Appendix B

E-UTRA Band 38

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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
Band38	5MHz	QPSK	37775	1RB#0	22.93	21.93	33	PASS
Band38	5MHz	QPSK	37775	1RB#13	23.39	22.39	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.01	22.01	33	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.12	21.12	33	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.12	21.12	33	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.03	21.03	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.09	21.09	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.14	22.14	33	PASS
Band38	5MHz	QPSK	38000	1RB#13	22.97	21.97	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.20	22.20	33	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.23	21.23	33	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.95	20.95	33	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.91	20.91	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.24	21.24	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.00	22.00	33	PASS
Band38	5MHz	QPSK	38225	1RB#13	22.93	21.93	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.94	21.94	33	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.26	21.26	33	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.95	20.95	33	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.94	20.94	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.30	21.30	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.06	20.06	33	PASS
Band38	5MHz	64QAM	37775	1RB#13	20.99	19.99	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	20.94	19.94	33	PASS
Band38	5MHz	64QAM	37775	12RB#0	20.17	19.17	33	PASS
Band38	5MHz	64QAM	37775	12RB#6	20.08	19.08	33	PASS
Band38	5MHz	64QAM	37775	12RB#13	20.13	19.13	33	PASS

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Band38	5MHz	64QAM	37775	25RB#0	20.05	19.05	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.01	20.01	33	PASS
Band38	5MHz	64QAM	38000	1RB#13	20.97	19.97	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.08	20.08	33	PASS
Band38	5MHz	64QAM	38000	12RB#0	19.95	18.95	33	PASS
Band38	5MHz	64QAM	38000	12RB#6	20.16	19.16	33	PASS
Band38	5MHz	64QAM	38000	12RB#13	20.14	19.14	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.16	19.16	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.98	19.98	33	PASS
Band38	5MHz	64QAM	38225	1RB#13	21.06	20.06	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.01	20.01	33	PASS
Band38	5MHz	64QAM	38225	12RB#0	20.17	19.17	33	PASS
Band38	5MHz	64QAM	38225	12RB#6	20.00	19.00	33	PASS
Band38	5MHz	64QAM	38225	12RB#13	20.14	19.14	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.13	19.13	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.31	21.31	33	PASS
Band38	5MHz	16QAM	37775	1RB#13	22.33	21.33	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.11	21.11	33	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.13	20.13	33	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.07	20.07	33	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.95	19.95	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.11	20.11	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.32	21.32	33	PASS
Band38	5MHz	16QAM	38000	1RB#13	22.28	21.28	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.04	21.04	33	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.20	20.20	33	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.11	20.11	33	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.89	19.89	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.90	19.90	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.29	21.29	33	PASS
Band38	5MHz	16QAM	38225	1RB#13	22.25	21.25	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.04	21.04	33	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.34	20.34	33	PASS

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Band38	5MHz	16QAM	38225	12RB#13	20.94	19.94	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.93	19.93	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.41	22.41	33	PASS
Band38	10MHz	QPSK	37800	1RB#25	23.29	22.29	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.31	22.31	33	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.13	21.13	33	PASS
Band38	10MHz	QPSK	37800	25RB#13	22.06	21.06	33	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.23	21.23	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.14	21.14	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.02	22.02	33	PASS
Band38	10MHz	QPSK	38000	1RB#25	23.00	22.00	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.09	22.09	33	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.22	21.22	33	PASS
Band38	10MHz	QPSK	38000	25RB#13	22.12	21.12	33	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.20	21.20	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.89	20.89	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.13	22.13	33	PASS
Band38	10MHz	QPSK	38200	1RB#25	22.96	21.96	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.06	22.06	33	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.15	21.15	33	PASS
Band38	10MHz	QPSK	38200	25RB#13	22.06	21.06	33	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.14	21.14	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.03	21.03	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.07	20.07	33	PASS
Band38	10MHz	64QAM	37800	1RB#25	21.08	20.08	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.94	19.94	33	PASS
Band38	10MHz	64QAM	37800	25RB#0	20.05	19.05	33	PASS
Band38	10MHz	64QAM	37800	25RB#13	20.14	19.14	33	PASS
Band38	10MHz	64QAM	37800	25RB#25	20.06	19.06	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.95	18.95	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.02	20.02	33	PASS
Band38	10MHz	64QAM	38000	1RB#25	20.94	19.94	33	PASS

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Band38	10MHz	64QAM	38000	25RB#0	19.94	18.94	33	PASS
Band38	10MHz	64QAM	38000	25RB#13	19.97	18.97	33	PASS
Band38	10MHz	64QAM	38000	25RB#25	20.11	19.11	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.95	18.95	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.06	20.06	33	PASS
Band38	10MHz	64QAM	38200	1RB#25	20.95	19.95	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.01	20.01	33	PASS
Band38	10MHz	64QAM	38200	25RB#0	20.18	19.18	33	PASS
Band38	10MHz	64QAM	38200	25RB#13	20.09	19.09	33	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.97	18.97	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.14	19.14	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.53	21.53	33	PASS
Band38	10MHz	16QAM	37800	1RB#25	22.47	21.47	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.49	21.49	33	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.40	20.40	33	PASS
Band38	10MHz	16QAM	37800	25RB#13	21.12	20.12	33	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.12	20.12	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.11	20.11	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.53	21.53	33	PASS
Band38	10MHz	16QAM	38000	1RB#25	21.95	20.95	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.23	21.23	33	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.03	20.03	33	PASS
Band38	10MHz	16QAM	38000	25RB#13	21.07	20.07	33	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.14	20.14	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.18	20.18	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.41	21.41	33	PASS
Band38	10MHz	16QAM	38200	1RB#25	22.02	21.02	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.02	21.02	33	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.97	19.97	33	PASS
Band38	10MHz	16QAM	38200	25RB#13	20.81	19.81	33	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.00	20.00	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.88	19.88	33	PASS

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Band38	15MHz	QPSK	37825	1RB#0	23.20	22.20	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.88	21.88	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.09	22.09	33	PASS
Band38	15MHz	QPSK	37825	36RB#0	22.47	21.47	33	PASS
Band38	15MHz	QPSK	37825	36RB#18	22.81	21.81	33	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.80	21.80	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.71	21.71	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.08	22.08	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.85	21.85	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.27	22.27	33	PASS
Band38	15MHz	QPSK	38000	36RB#0	22.23	21.23	33	PASS
Band38	15MHz	QPSK	38000	36RB#18	22.28	21.28	33	PASS
Band38	15MHz	QPSK	38000	36RB#39	22.37	21.37	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.38	21.38	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.96	21.96	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.07	22.07	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.17	22.17	33	PASS
Band38	15MHz	QPSK	38175	36RB#0	22.23	21.23	33	PASS
Band38	15MHz	QPSK	38175	36RB#18	22.36	21.36	33	PASS
Band38	15MHz	QPSK	38175	36RB#39	22.38	21.38	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.58	21.58	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.02	20.02	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.95	19.95	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.05	20.05	33	PASS
Band38	15MHz	64QAM	37825	36RB#0	20.17	19.17	33	PASS
Band38	15MHz	64QAM	37825	36RB#18	20.15	19.15	33	PASS
Band38	15MHz	64QAM	37825	36RB#39	19.96	18.96	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.15	19.15	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.99	19.99	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.97	19.97	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.07	20.07	33	PASS
Band38	15MHz	64QAM	38000	36RB#0	20.12	19.12	33	PASS
Band38	15MHz	64QAM	38000	36RB#18	19.96	18.96	33	PASS

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Band38	15MHz	64QAM	38000	36RB#39	20.12	19.12	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.10	19.10	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.01	20.01	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.08	20.08	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.05	20.05	33	PASS
Band38	15MHz	64QAM	38175	36RB#0	20.13	19.13	33	PASS
Band38	15MHz	64QAM	38175	36RB#18	20.09	19.09	33	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.98	18.98	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.01	19.01	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.02	22.02	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.59	21.59	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.80	21.80	33	PASS
Band38	15MHz	16QAM	37825	36RB#0	22.12	21.12	33	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.99	20.99	33	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.99	20.99	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.02	21.02	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.90	21.90	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.47	21.47	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.58	21.58	33	PASS
Band38	15MHz	16QAM	38000	36RB#0	21.79	20.79	33	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.64	20.64	33	PASS
Band38	15MHz	16QAM	38000	36RB#39	21.76	20.76	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.70	20.70	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.78	21.78	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.53	21.53	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.69	21.69	33	PASS
Band38	15MHz	16QAM	38175	36RB#0	21.88	20.88	33	PASS
Band38	15MHz	16QAM	38175	36RB#18	22.12	21.12	33	PASS
Band38	15MHz	16QAM	38175	36RB#39	21.84	20.84	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.89	20.89	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.22	22.22	33	PASS
Band38	20MHz	QPSK	37850	1RB#50	23.18	22.18	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.16	22.16	33	PASS

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Band38	20MHz	QPSK	37850	50RB#0	22.21	21.21	33	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.97	20.97	33	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.03	21.03	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.31	21.31	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.19	22.19	33	PASS
Band38	20MHz	QPSK	38000	1RB#50	23.01	22.01	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.29	22.29	33	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.35	21.35	33	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.06	21.06	33	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.16	21.16	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.09	21.09	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.38	22.38	33	PASS
Band38	20MHz	QPSK	38150	1RB#50	23.04	22.04	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.31	22.31	33	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.32	21.32	33	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.28	21.28	33	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.02	21.02	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.08	21.08	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.99	19.99	33	PASS
Band38	20MHz	64QAM	37850	1RB#50	20.95	19.95	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.06	20.06	33	PASS
Band38	20MHz	64QAM	37850	50RB#0	20.18	19.18	33	PASS
Band38	20MHz	64QAM	37850	50RB#25	20.01	19.01	33	PASS
Band38	20MHz	64QAM	37850	50RB#50	20.09	19.09	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.11	19.11	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.07	20.07	33	PASS
Band38	20MHz	64QAM	38000	1RB#50	21.00	20.00	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.97	19.97	33	PASS
Band38	20MHz	64QAM	38000	50RB#0	20.08	19.08	33	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.98	18.98	33	PASS
Band38	20MHz	64QAM	38000	50RB#50	20.07	19.07	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	19.97	18.97	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.03	20.03	33	PASS

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Band38	20MHz	64QAM	38150	1RB#50	20.98	19.98	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.01	20.01	33	PASS
Band38	20MHz	64QAM	38150	50RB#0	20.02	19.02	33	PASS
Band38	20MHz	64QAM	38150	50RB#25	20.10	19.10	33	PASS
Band38	20MHz	64QAM	38150	50RB#50	20.02	19.02	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	19.98	18.98	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.34	21.34	33	PASS
Band38	20MHz	16QAM	37850	1RB#50	22.15	21.15	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.14	21.14	33	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.00	20.00	33	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.14	20.14	33	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.23	20.23	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.04	20.04	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.54	21.54	33	PASS
Band38	20MHz	16QAM	38000	1RB#50	22.34	21.34	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.28	21.28	33	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.10	20.10	33	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.04	20.04	33	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.15	20.15	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.26	20.26	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.63	21.63	33	PASS
Band38	20MHz	16QAM	38150	1RB#50	22.36	21.36	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.38	21.38	33	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.07	20.07	33	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.13	20.13	33	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.11	20.11	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.33	20.33	33	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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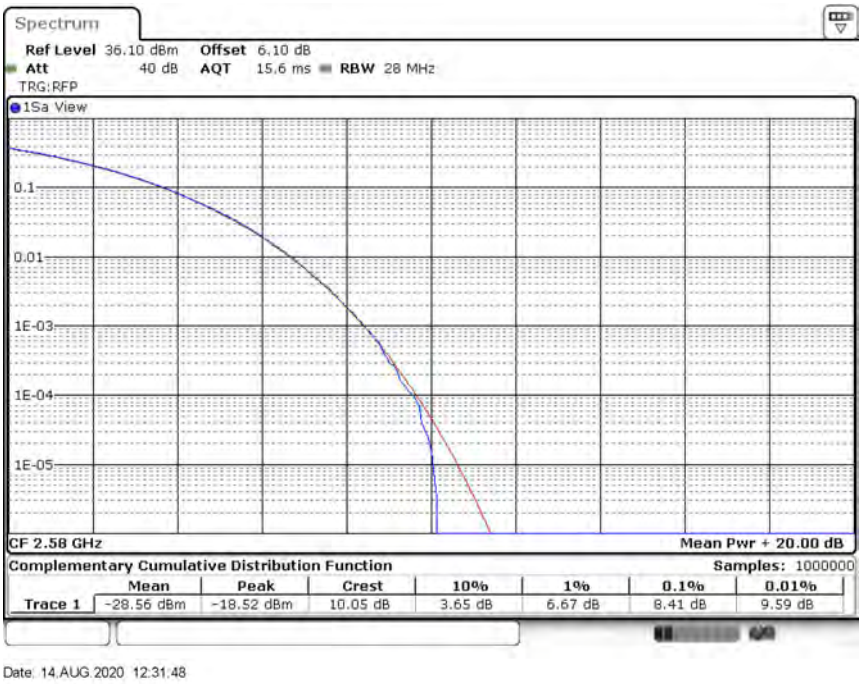
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.41	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.39	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.13	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	6.84	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.86	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.91	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.77	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.71	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.80	13	PASS

2.2. Test Plots

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



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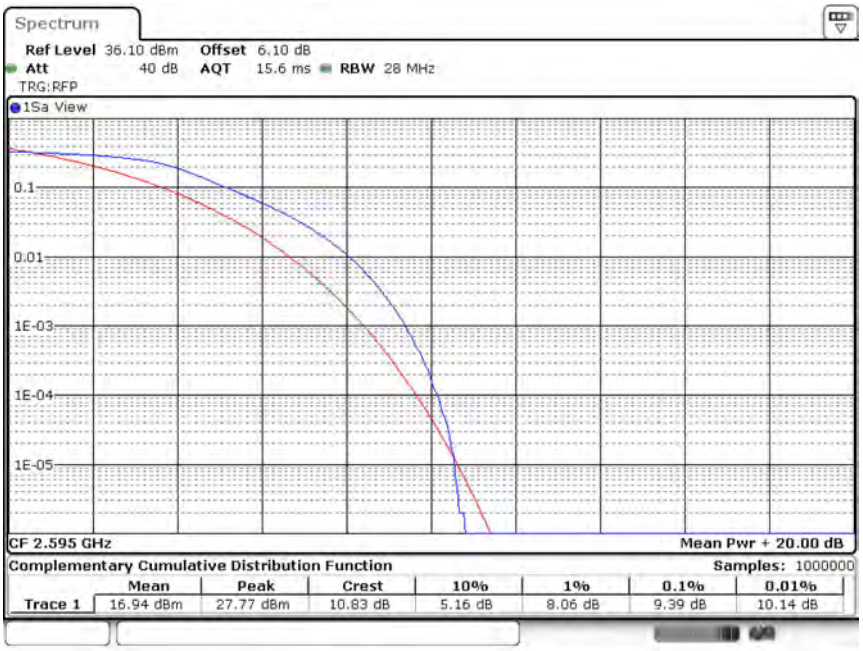
Band38-20MHz-QPSK-38000-100RB#0



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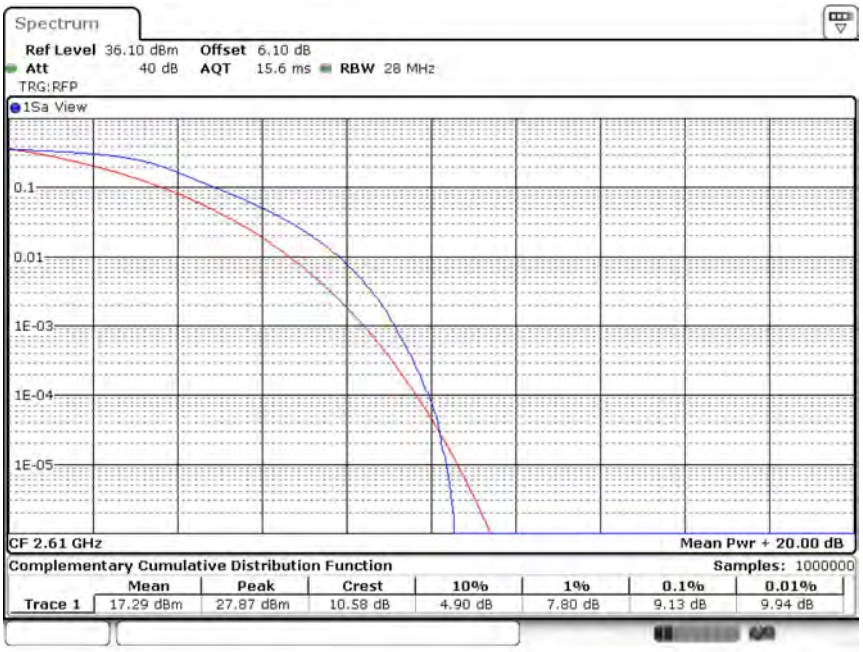
Band38-20MHz-QPSK-38150-100RB#0



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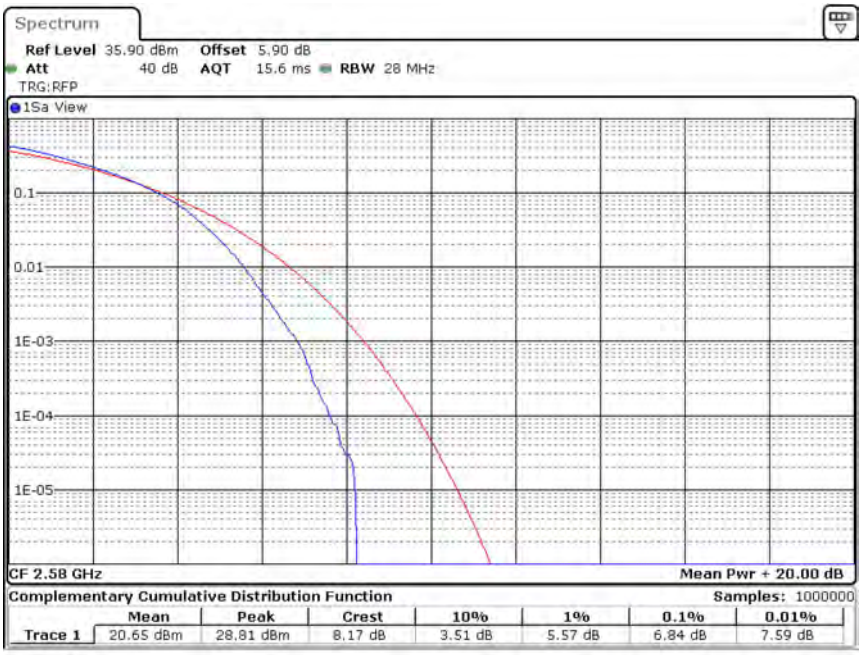
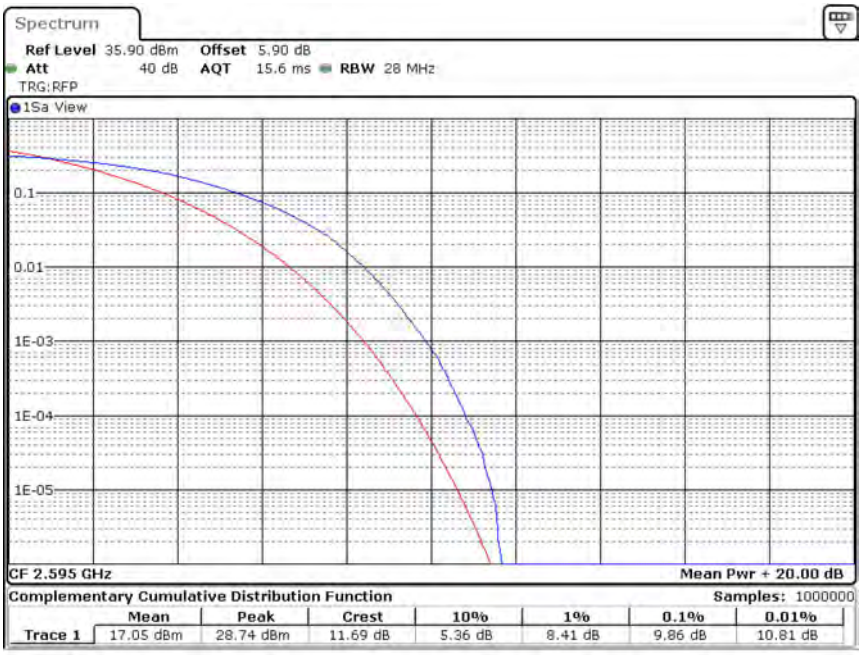
Band38-20MHz-64QAM-37850-100RB#0



Date: 28.AUG.2020 20:55:30

Band38-20MHz-64QAM-38000-100RB#0



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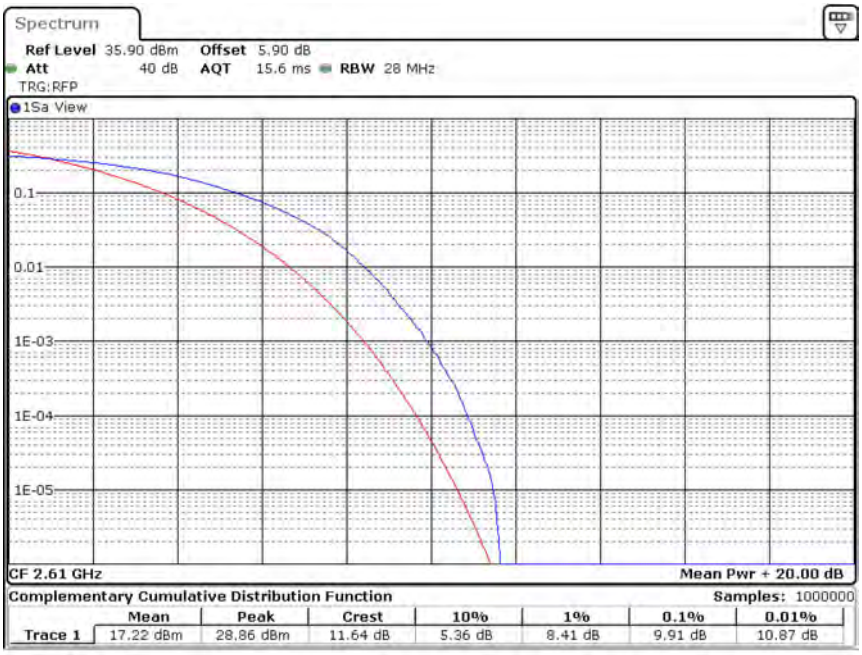
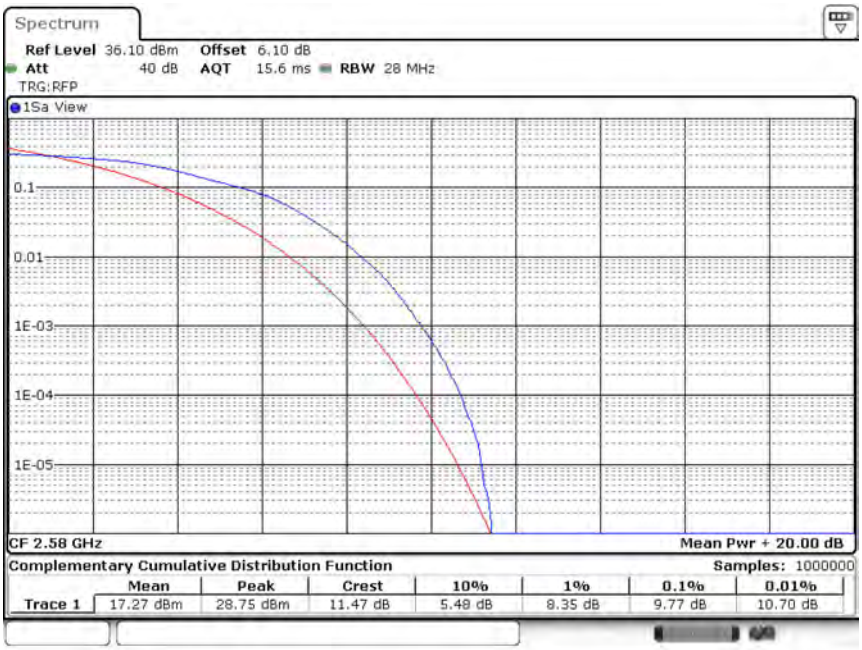
Band38-20MHz-64QAM-38150-100RB#0



Date: 28.AUG.2020 20:55:54

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



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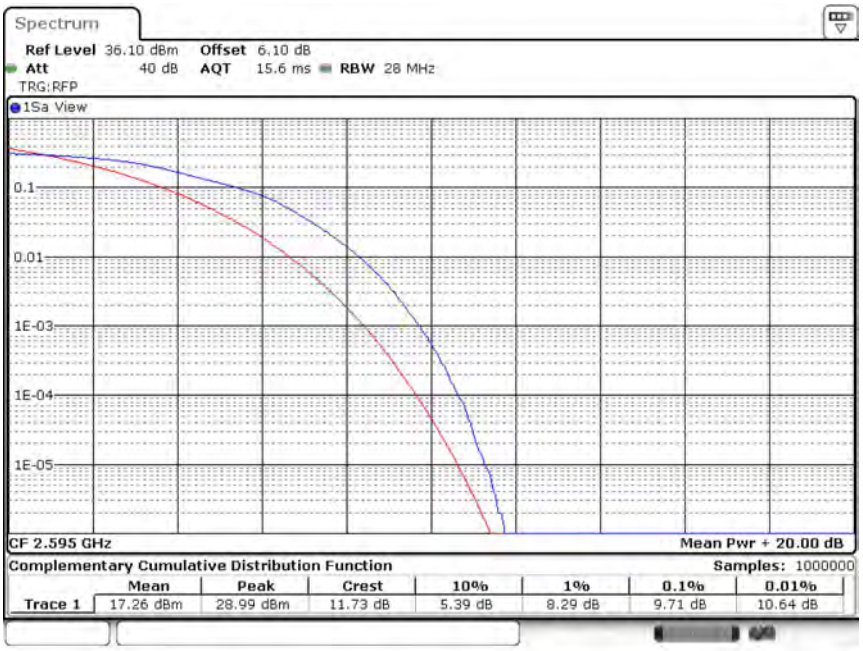
Band38-20MHz-16QAM-38000-100RB#0



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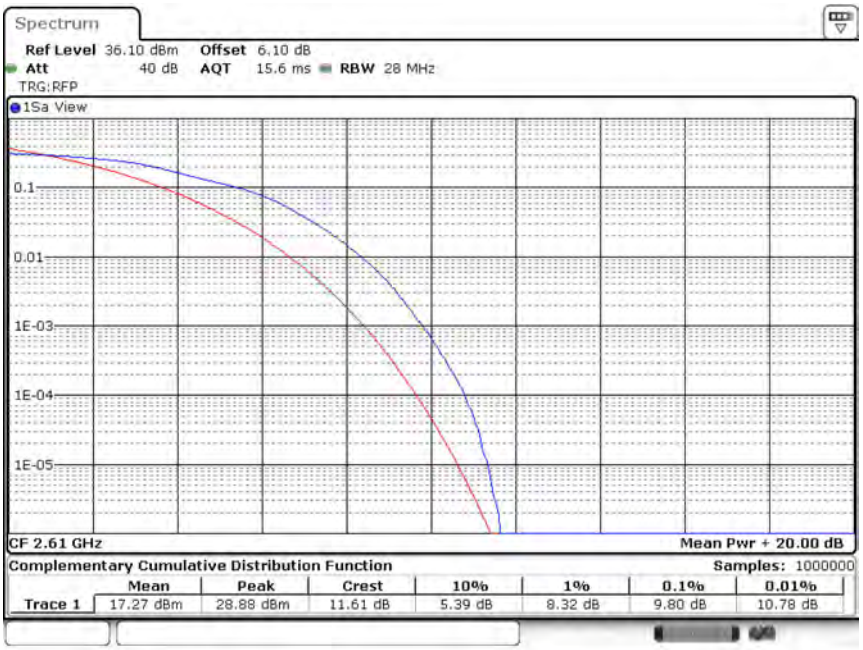
Band38-20MHz-16QAM-38150-100RB#0



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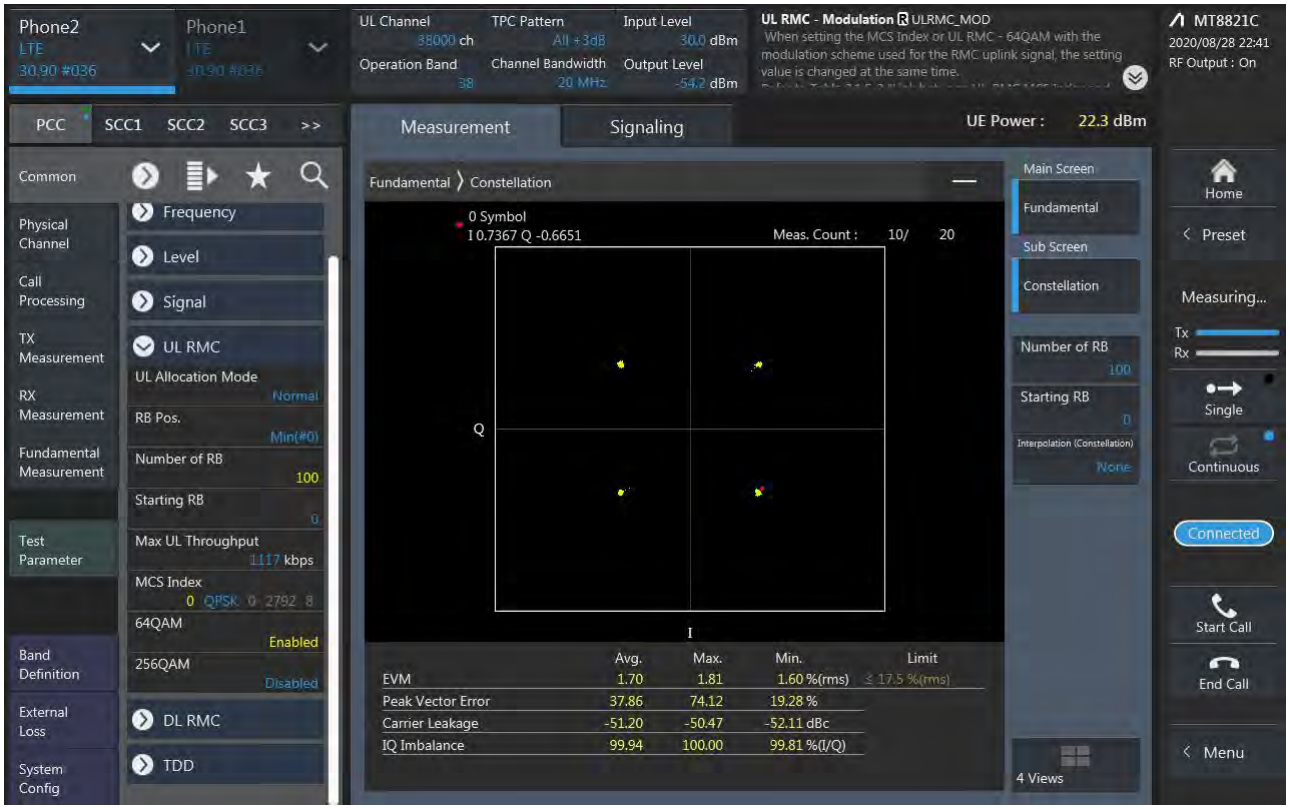
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1.Test Channel = MCH



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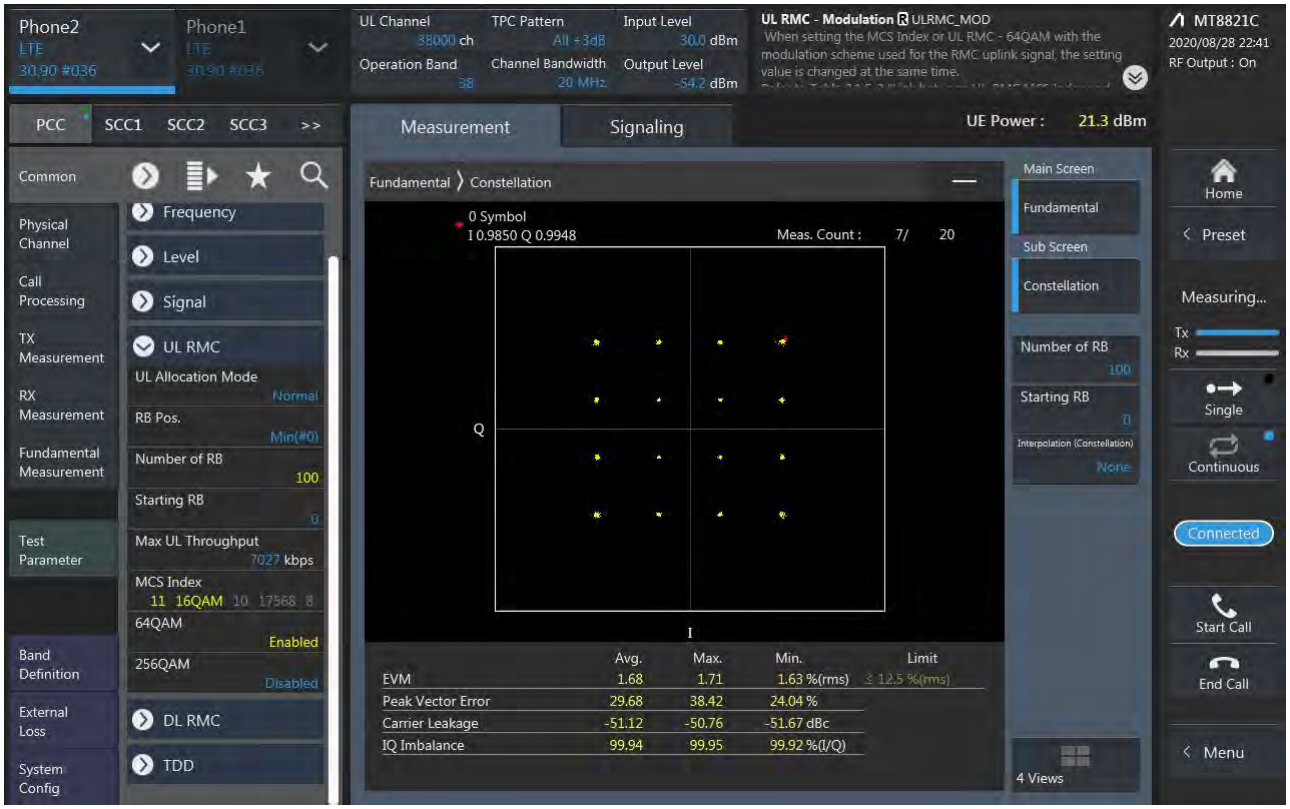
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.Test Channel = MCH



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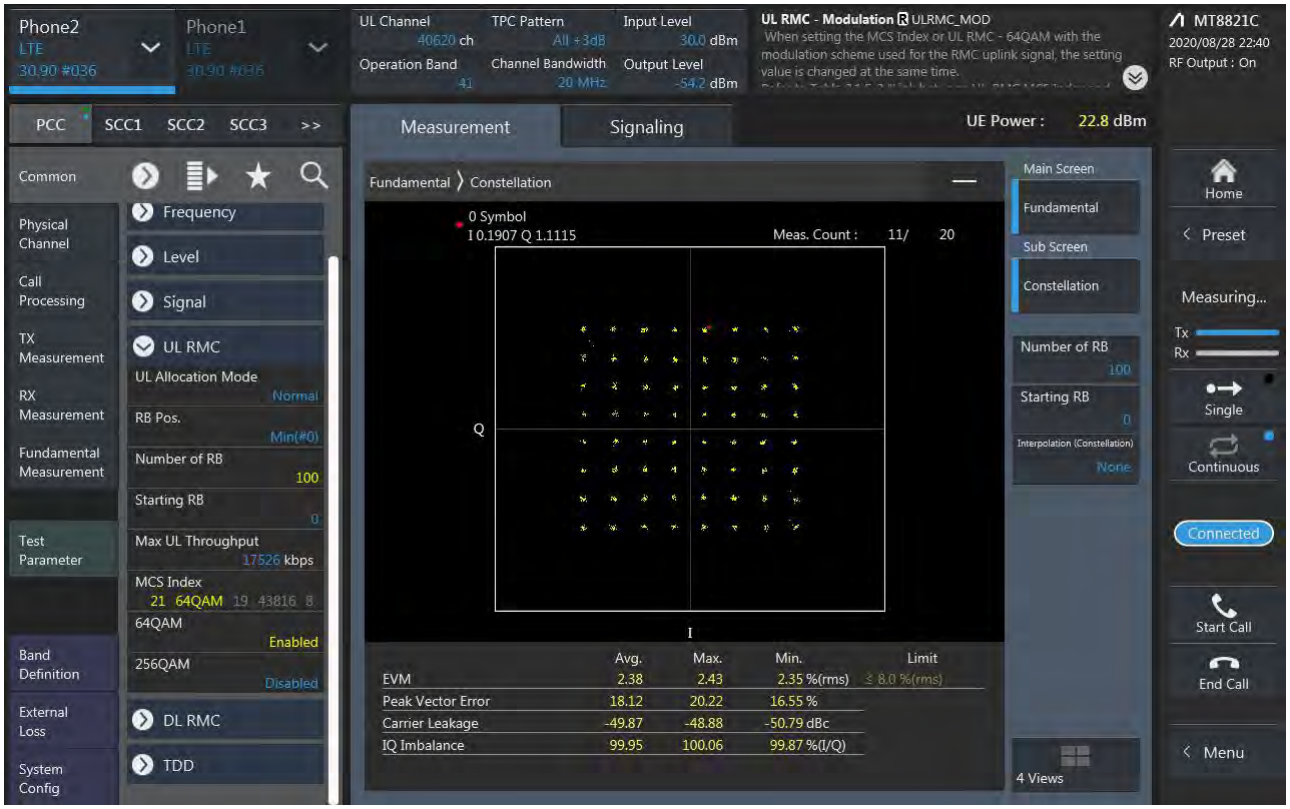
3.3. Test Mode = LTE /TM3 20MHz

3.3.1.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	4.960	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.960	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.980	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.486	5.140	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.486	5.150	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.486	5.150	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.960	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.950	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.940	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.800	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.780	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.780	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.760	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.760	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.760	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.640	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.620	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.640	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	16.320	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.516	16.350	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.516	16.440	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	14.880	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	15.000	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.457	14.850	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.150	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	15.090	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.090	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	19.520	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.942	19.520	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	19.640	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.942	19.640	PASS

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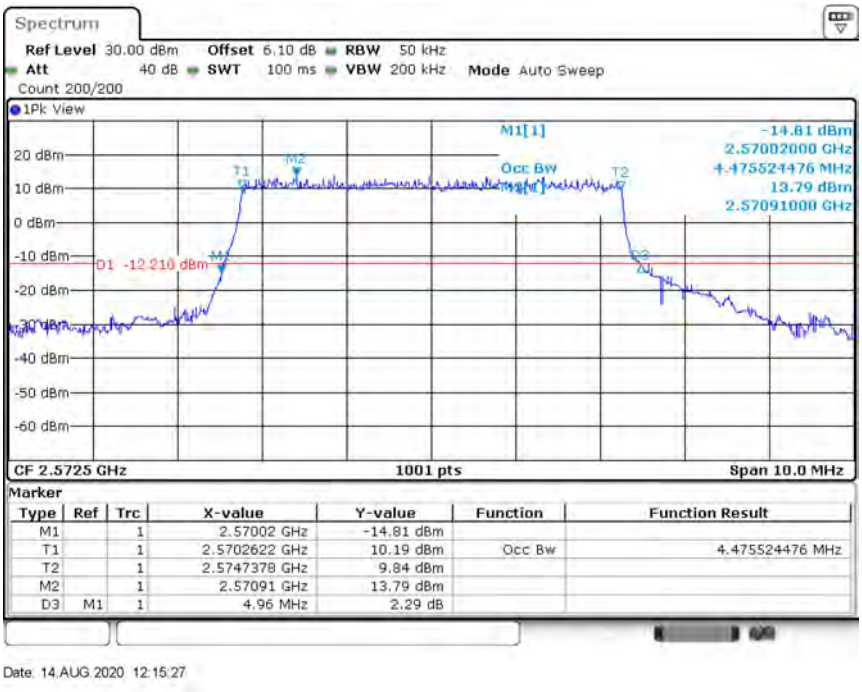
Band38	20MHz	64QAM	38000	100RB#0	17.942	19.680	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.902	19.600	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.520	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	20.560	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.902	20.600	PASS

4.2. Test Plots

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



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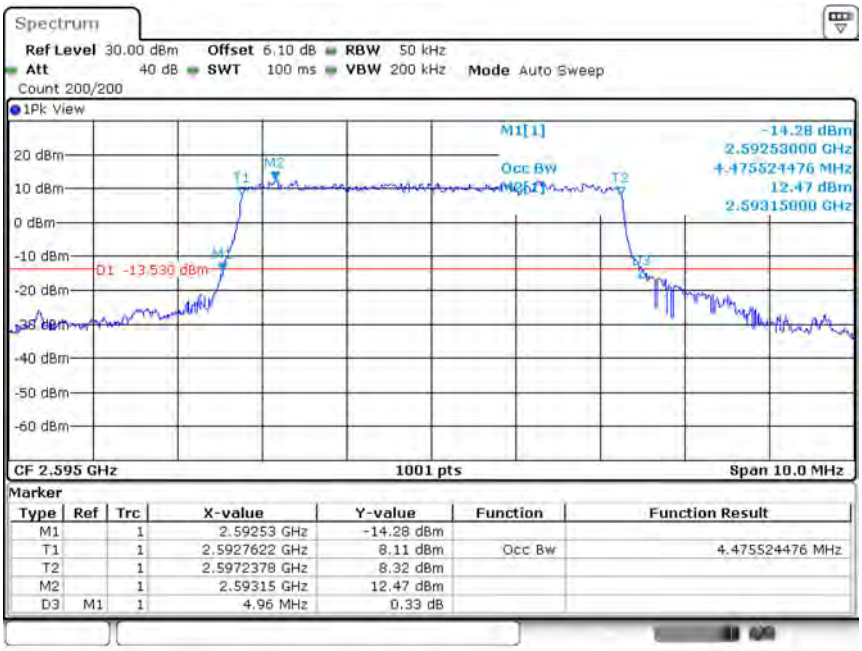
Band38-5MHz-QPSK-38000-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59253 GHz	-14.28 dBm		
T1		1	2.5927622 GHz	8.11 dBm	Occ Bw	4.475524476 MHz
T2		1	2.5972378 GHz	8.32 dBm		
M2		1	2.59315 GHz	12.47 dBm		
D3	M1	1	4.96 MHz	0.33 dB		

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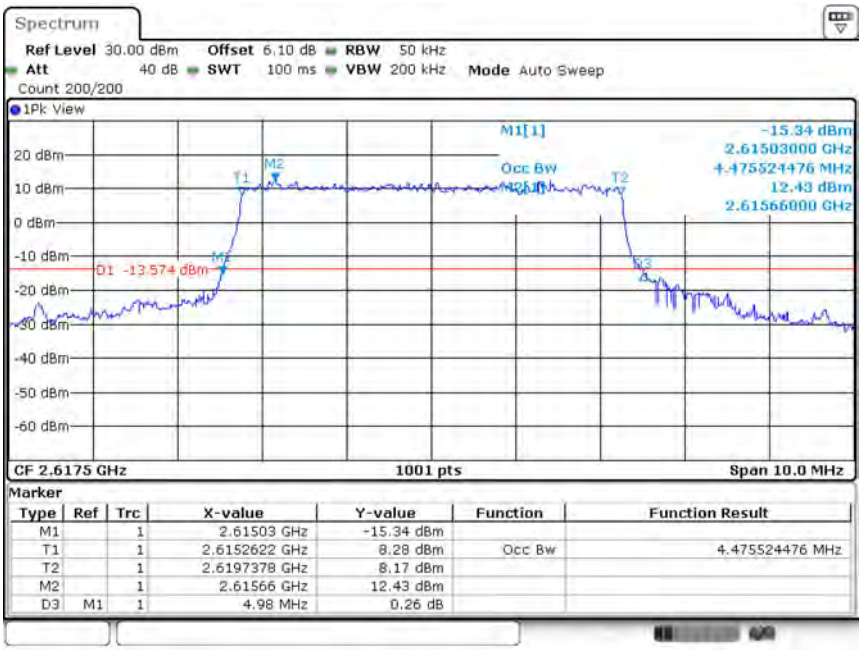
Band38-5MHz-QPSK-38225-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61503 GHz	-15.34 dBm		
T1		1	2.6152622 GHz	8.28 dBm	Occ Bw	4.475524476 MHz
T2		1	2.6197378 GHz	8.17 dBm		
M2		1	2.61566 GHz	12.43 dBm		
D3	M1	1	4.98 MHz	0.26 dB		

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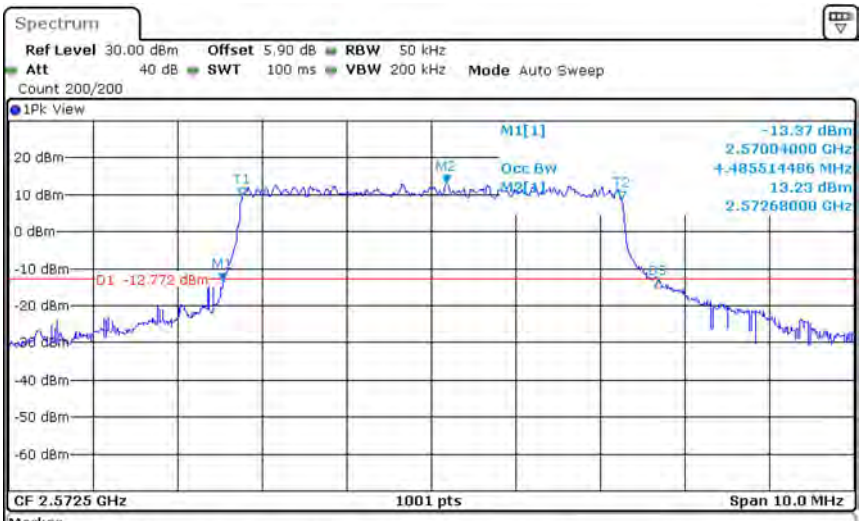
Band38-5MHz-64QAM-37775-25RB#0-4.486



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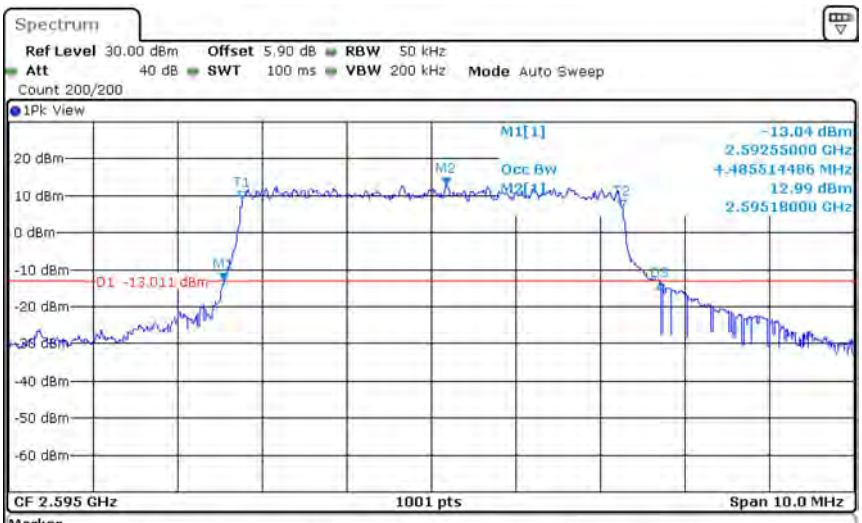
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57004 GHz	-13.37 dBm		
T1		1	2.5702622 GHz	9.55 dBm	Occ Bw	4.485514486 MHz
T2		1	2.5747478 GHz	8.72 dBm		
M2		1	2.57268 GHz	13.23 dBm		
D3	M1	1	5.14 MHz	0.47 dB		

Date: 28.AUG.2020 20:34:48

Band38-5MHz-64QAM-38000-25RB#0-4.486



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59255 GHz	-13.04 dBm		
T1		1	2.5927622 GHz	9.09 dBm	Occ Bw	4.485514486 MHz
T2		1	2.5972478 GHz	6.84 dBm		
M2		1	2.59518 GHz	12.99 dBm		
D3	M1	1	5.15 MHz	-0.23 dB		

Date: 28.AUG.2020 20:35:21

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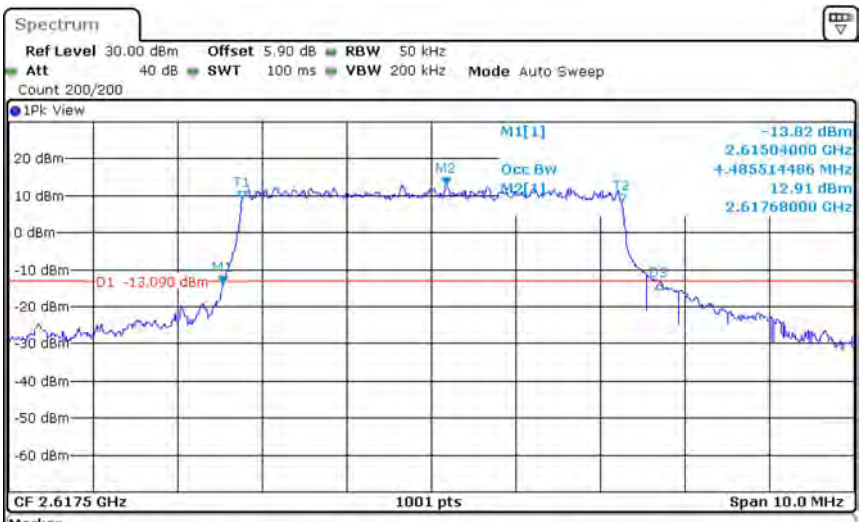

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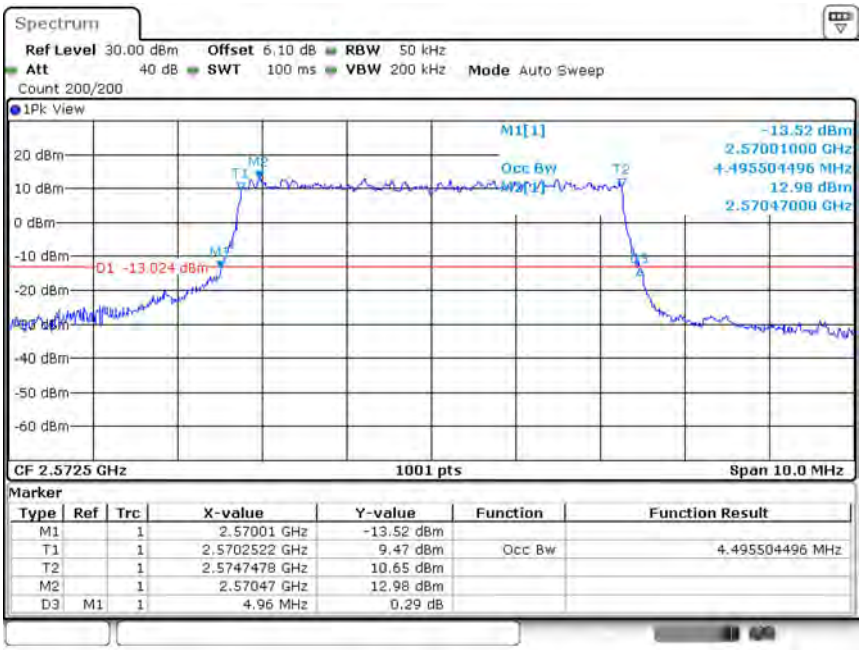
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61504 GHz	-13.82 dBm		
T1		1	2.6152622 GHz	8.98 dBm	Occ Bw	4.485514486 MHz
T2		1	2.6197478 GHz	8.23 dBm		
M2		1	2.61768 GHz	12.91 dBm		
D3	M1	1	5.15 MHz	0.42 dB		

Date: 28.AUG.2020 20:35:54

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



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57001 GHz	-13.52 dBm		
T1		1	2.5702522 GHz	9.47 dBm	Occ Bw	4.495504496 MHz
T2		1	2.5747478 GHz	10.65 dBm		
M2		1	2.57047 GHz	12.98 dBm		
D3	M1	1	4.96 MHz	0.29 dB		

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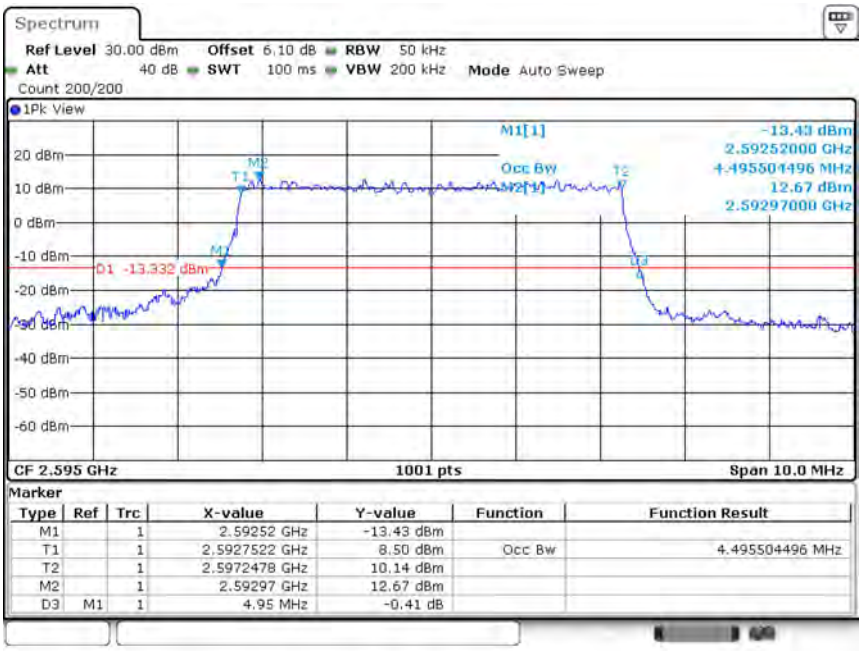
Band38-5MHz-16QAM-38000-25RB#0-4.496



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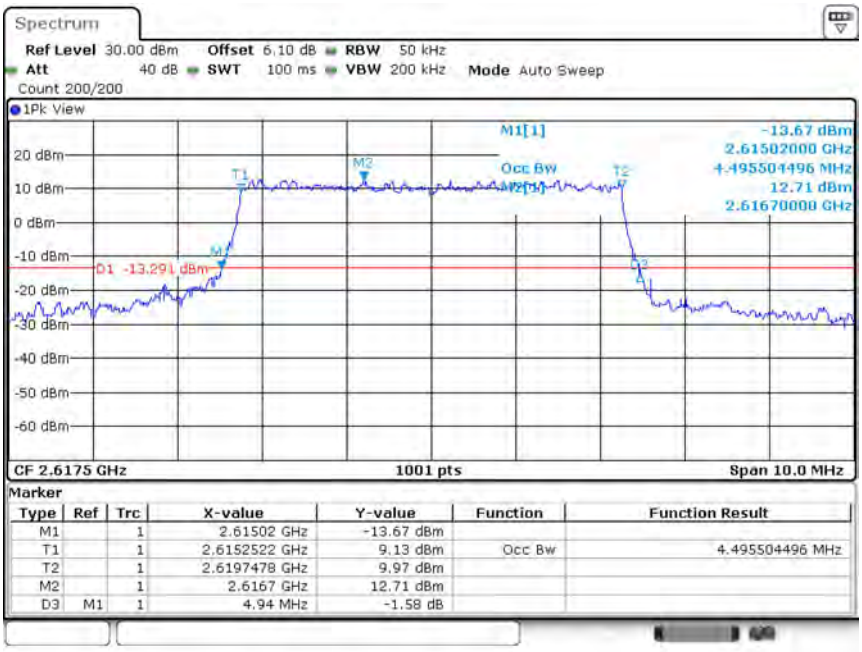
Band38-5MHz-16QAM-38225-25RB#0-4.496



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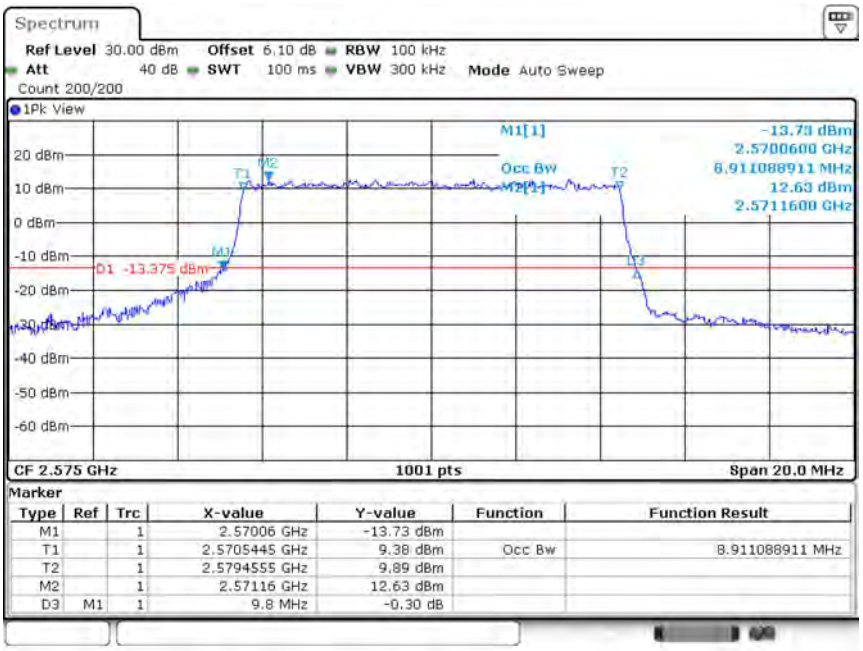
Band38-10MHz-QPSK-37800-50RB#0-8.911



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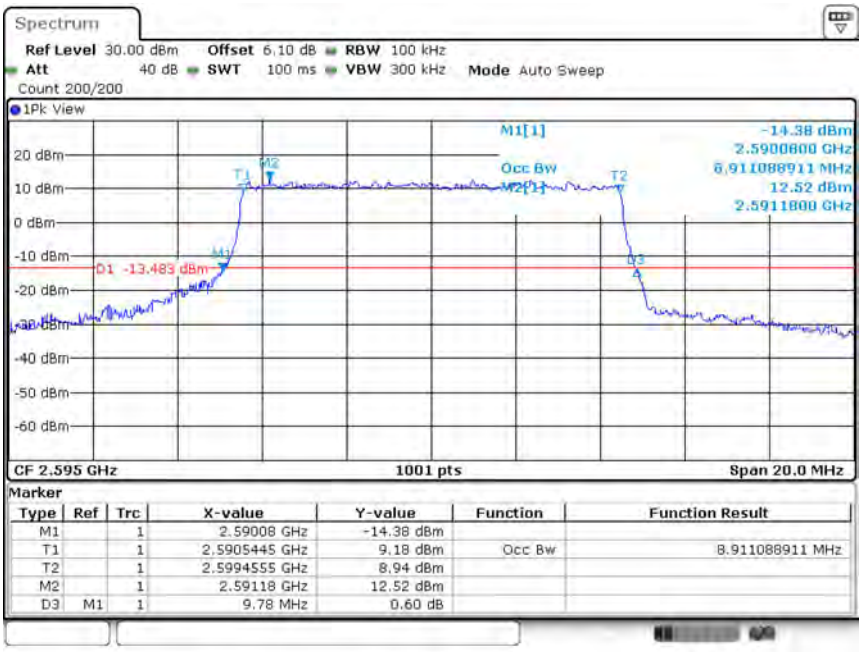
Band38-10MHz-QPSK-38000-50RB#0-8.911



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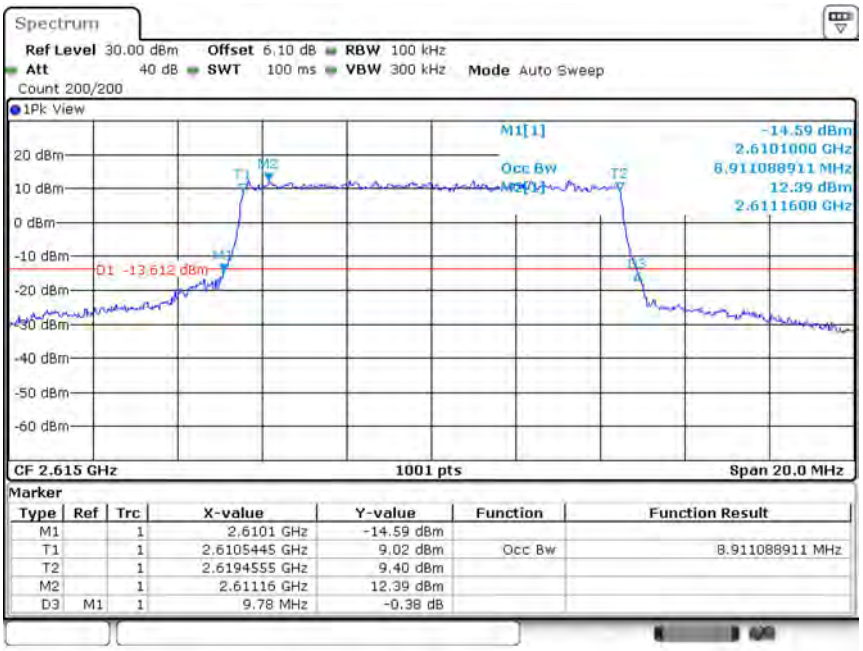
Band38-10MHz-QPSK-38200-50RB#0-8.911



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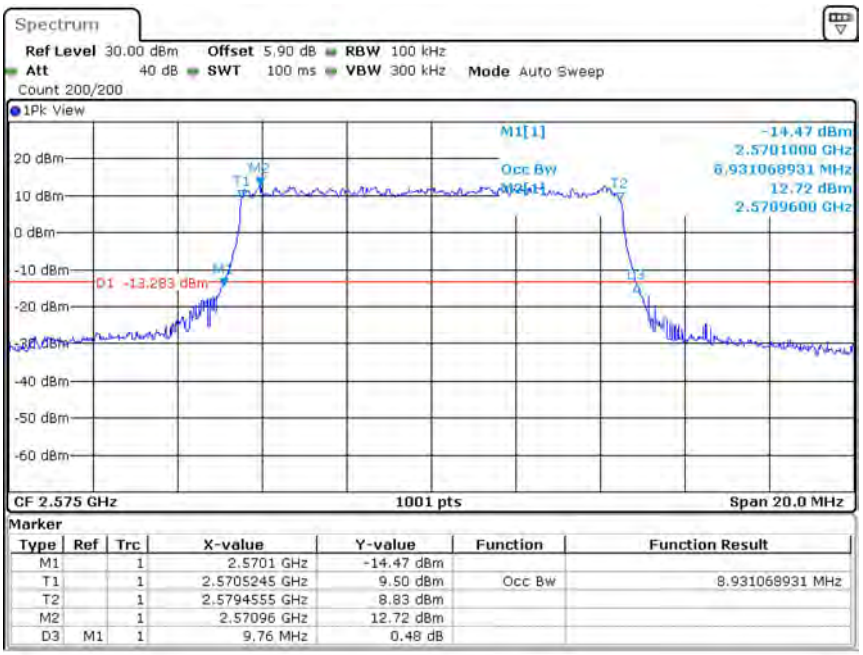
Band38-10MHz-64QAM-37800-50RB#0-8.931



Date: 28.AUG.2020 20:36:32

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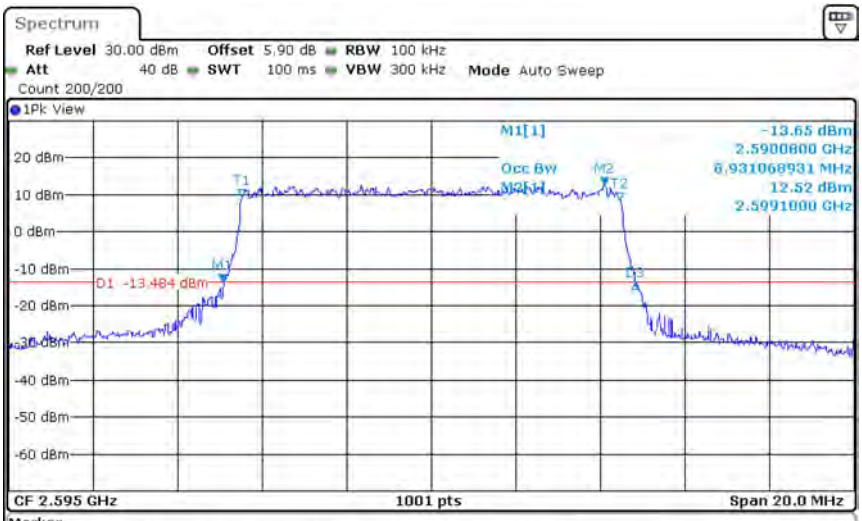
Band38-10MHz-64QAM-38000-50RB#0-8.931



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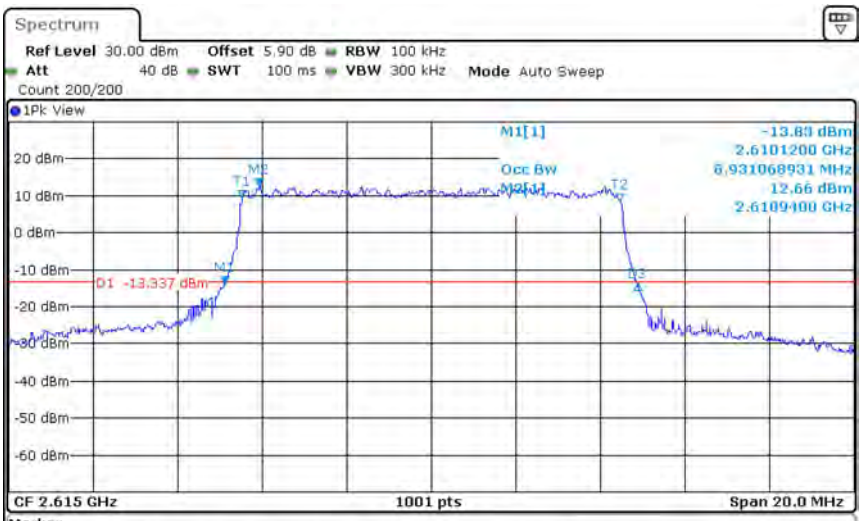
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59008 GHz	-13.65 dBm		
T1		1	2.5905245 GHz	9.43 dBm	Occ Bw	8.931068931 MHz
T2		1	2.5994555 GHz	8.43 dBm		
M2		1	2.5991 GHz	12.52 dBm		
D3	M1	1	9.76 MHz	-0.03 dB		

Date: 28.AUG.2020 20:37:05

Band38-10MHz-64QAM-38200-50RB#0-8.931



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.61012 GHz	-13.83 dBm		
T1		1	2.6105245 GHz	9.43 dBm	Occ Bw	8.931068931 MHz
T2		1	2.6194555 GHz	8.51 dBm		
M2		1	2.61094 GHz	12.66 dBm		
D3	M1	1	9.76 MHz	0.18 dB		

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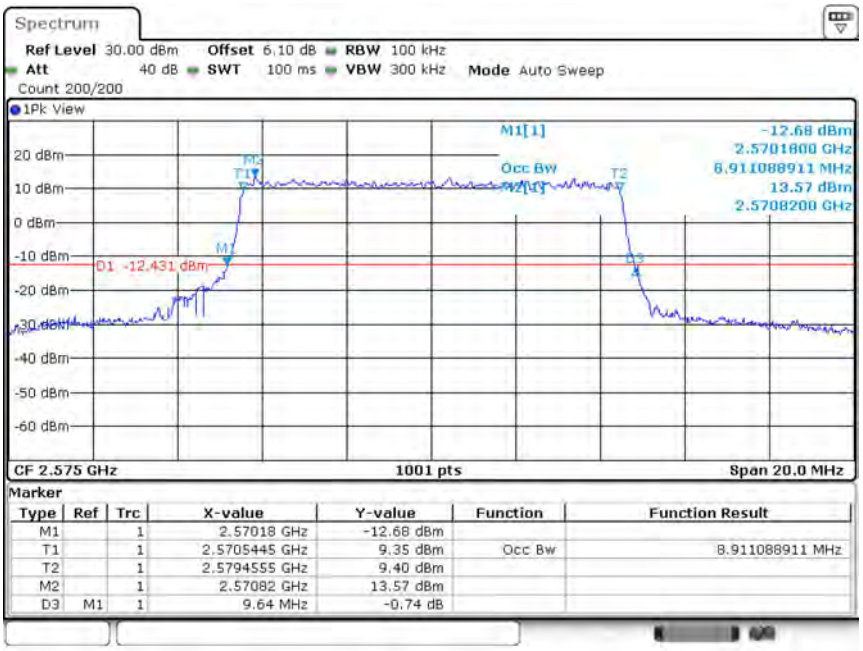
Band38-10MHz-16QAM-37800-50RB#0-8.911



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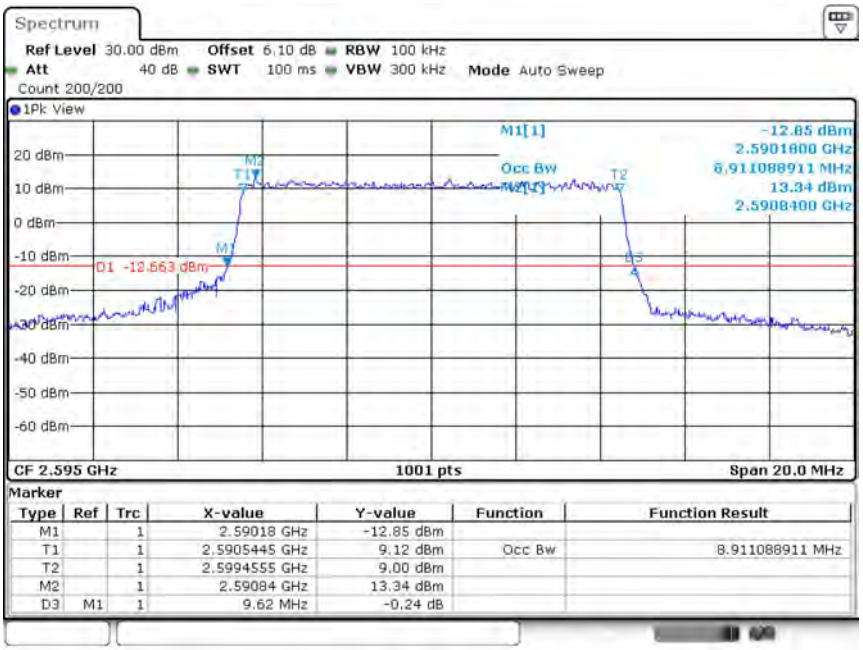
Band38-10MHz-16QAM-38000-50RB#0-8.911



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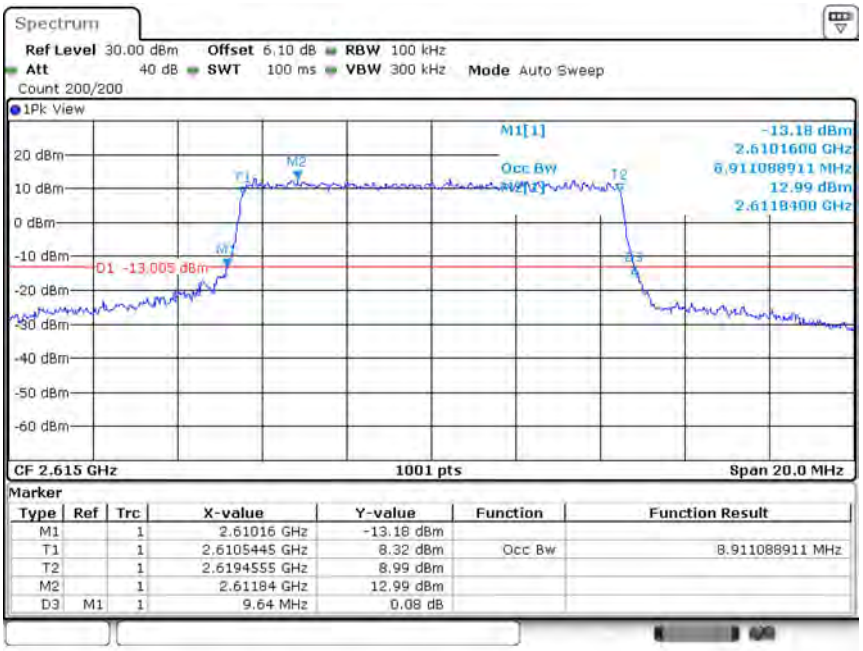
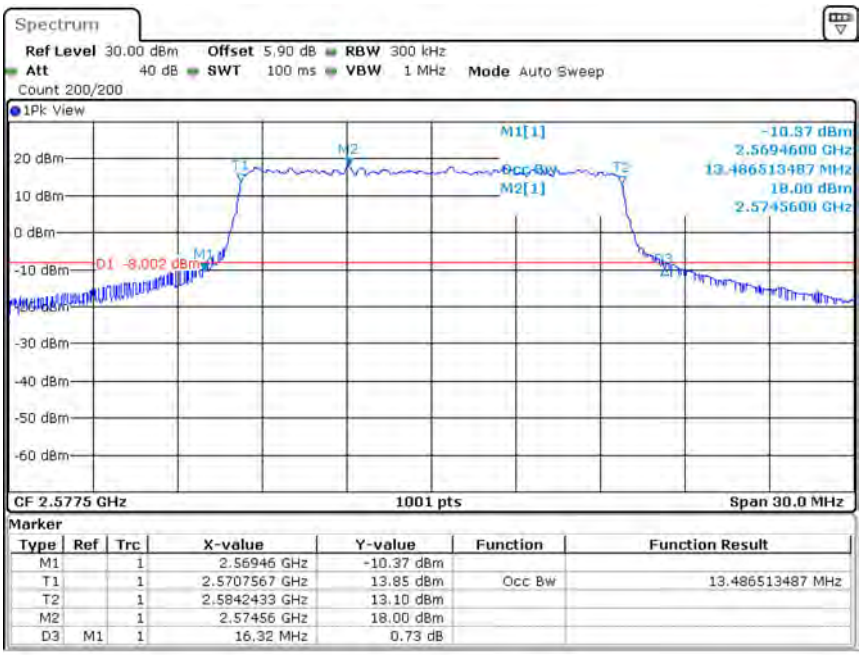


Date: 14.AUG.2020 12:21:35

Band38-15MHz-QPSK-37825-75RB#0-13.487



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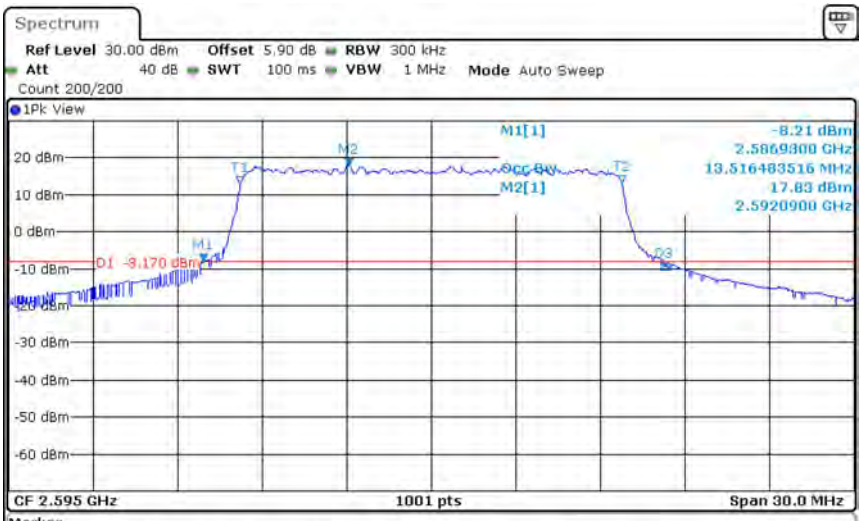
Band38-15MHz-QPSK-38000-75RB#0-13.516



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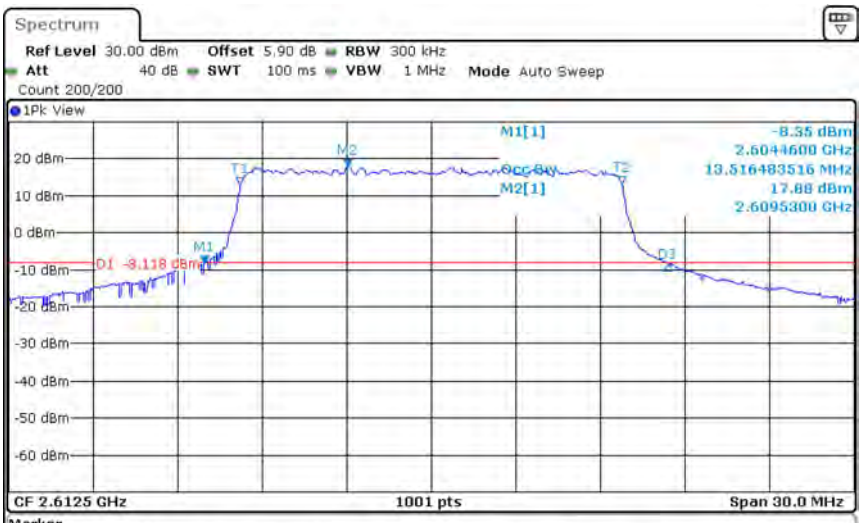
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58693 GHz	-8.21 dBm		
T1		1	2.5882268 GHz	12.88 dBm	Occ Bw	13.516483516 MHz
T2		1	2.6017433 GHz	13.15 dBm		
M2		1	2.59209 GHz	17.83 dBm		
D3	M1	1	16.35 MHz	-0.05 dB		

Date: 28.AUG.2020 21:16:55

Band38-15MHz-QPSK-38175-75RB#0-13.516



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60446 GHz	-8.35 dBm		
T1		1	2.6057268 GHz	12.88 dBm	Occ Bw	13.516483516 MHz
T2		1	2.6192433 GHz	13.21 dBm		
M2		1	2.60953 GHz	17.88 dBm		
D3	M1	1	16.44 MHz	0.09 dB		

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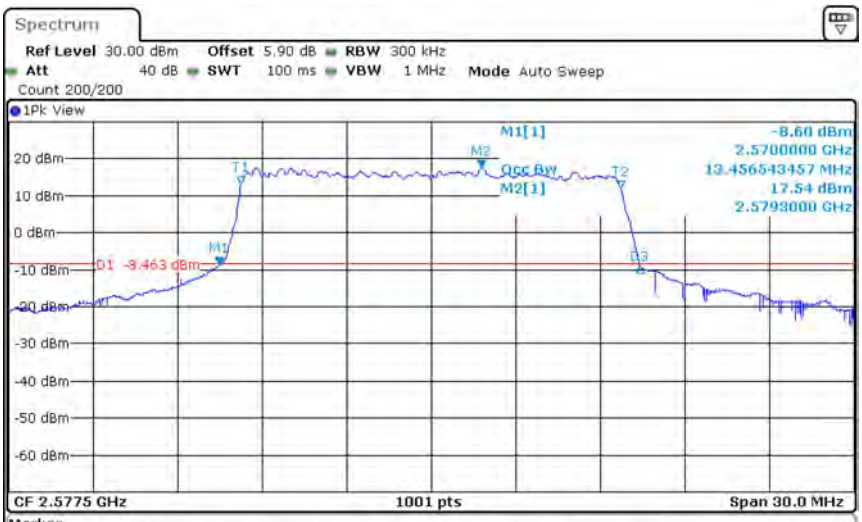
Band38-15MHz-64QAM-37825-75RB#0-13.457



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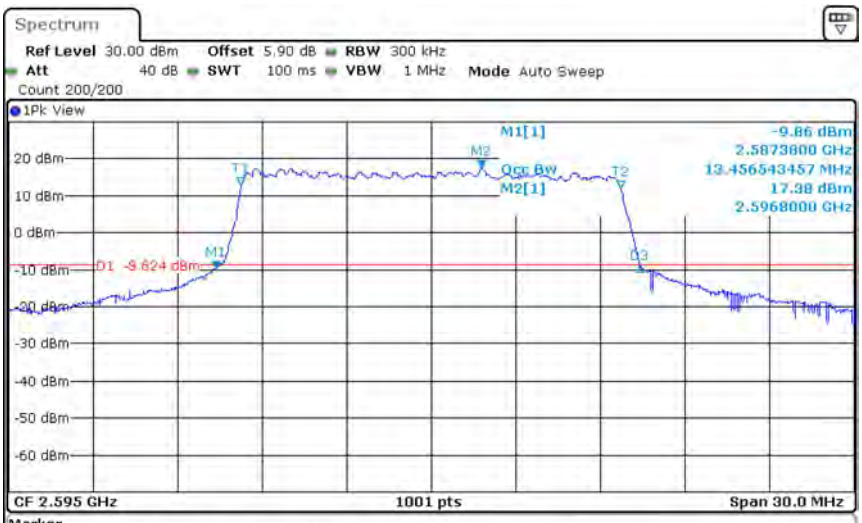
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57 GHz	-8.60 dBm		
T1		1	2.5707567 GHz	13.04 dBm	Occ Bw	13.456543457 MHz
T2		1	2.5842133 GHz	12.07 dBm		
M2		1	2.5793 GHz	17.54 dBm		
D3	M1	1	14.88 MHz	-0.34 dB		

Date: 28.AUG.2020 21:25:25

Band38-15MHz-64QAM-38000-75RB#0-13.457



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58738 GHz	-9.86 dBm		
T1		1	2.5882567 GHz	12.73 dBm	Occ Bw	13.456543457 MHz
T2		1	2.6017133 GHz	11.98 dBm		
M2		1	2.5968 GHz	17.38 dBm		
D3	M1	1	15.0 MHz	1.20 dB		

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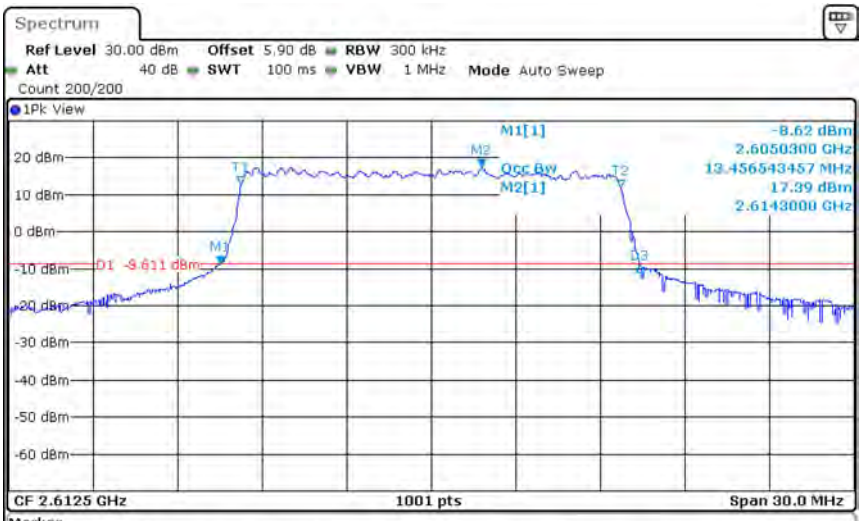
Band38-15MHz-64QAM-38175-75RB#0-13.457



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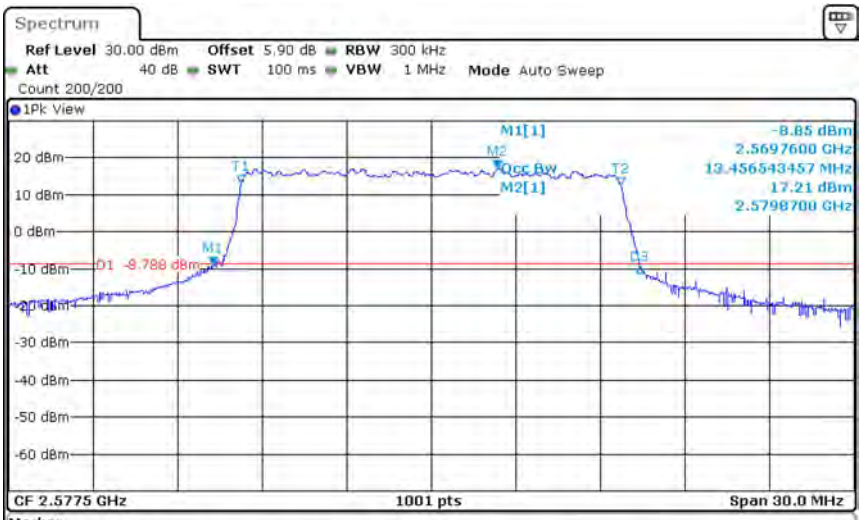
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60503 GHz	-8.62 dBm		
T1		1	2.6057567 GHz	12.87 dBm	Occ Bw	13.456543457 MHz
T2		1	2.6192133 GHz	11.88 dBm		
M2		1	2.6143 GHz	17.39 dBm		
D3	M1	1	14.85 MHz	-0.22 dB		

Date: 28.AUG.2020 21:27:04

Band38-15MHz-16QAM-37825-75RB#0-13.457



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56976 GHz	-8.85 dBm		
T1		1	2.5707567 GHz	13.12 dBm	Occ Bw	13.456543457 MHz
T2		1	2.5842133 GHz	12.44 dBm		
M2		1	2.57987 GHz	17.21 dBm		
D3	M1	1	15.15 MHz	-0.43 dB		

Date: 28.AUG.2020 21:15:17

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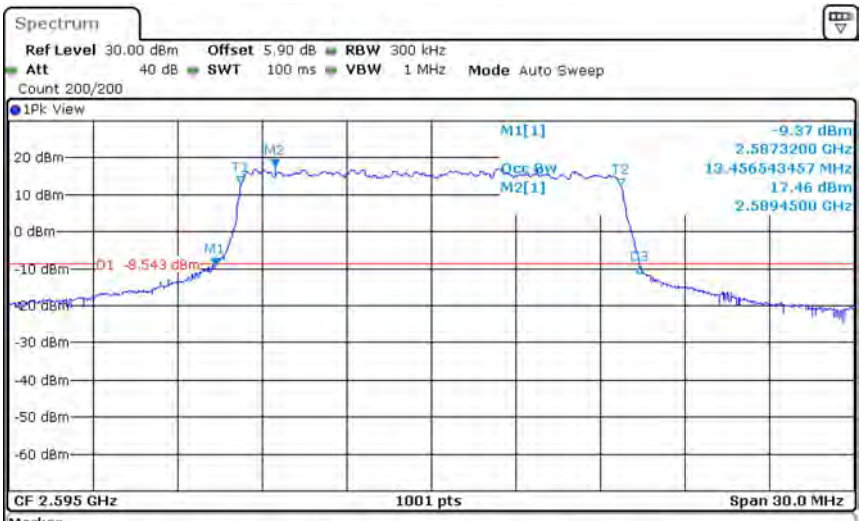
Band38-15MHz-16QAM-38000-75RB#0-13.457

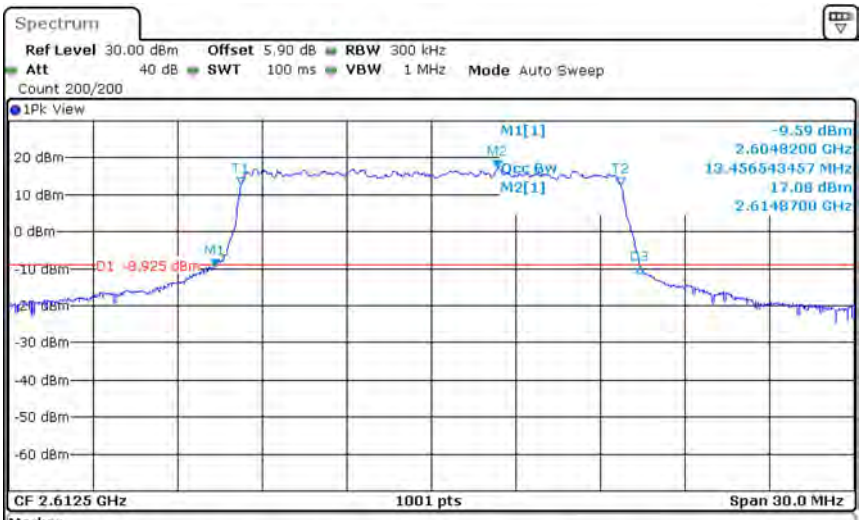


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58732 GHz	-9.37 dBm		
T1		1	2.5882567 GHz	12.95 dBm	Occ Bw	13.456543457 MHz
T2		1	2.6017133 GHz	12.41 dBm		
M2		1	2.58945 GHz	17.46 dBm		
D3	M1	1	15.09 MHz	0.25 dB		

Date: 28.AUG.2020 21:17:54

Band38-15MHz-16QAM-38175-75RB#0-13.457



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60482 GHz	-9.59 dBm		
T1		1	2.6057567 GHz	12.70 dBm	Occ Bw	13.456543457 MHz
T2		1	2.6192133 GHz	12.54 dBm		
M2		1	2.61487 GHz	17.08 dBm		
D3	M1	1	15.09 MHz	0.34 dB		

Date: 28.AUG.2020 21:21:04

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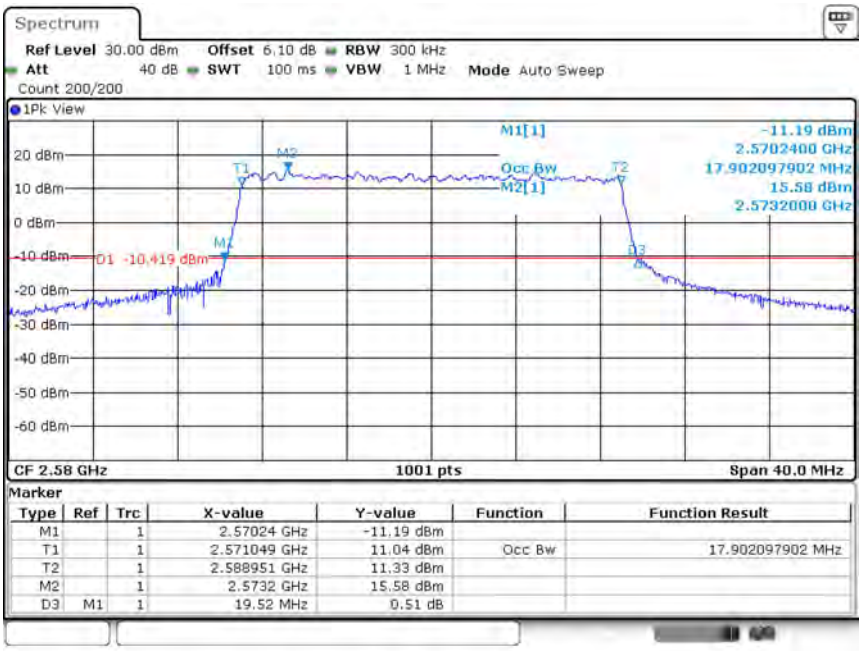
Band38-20MHz-QPSK-37850-100RB#0-17.902

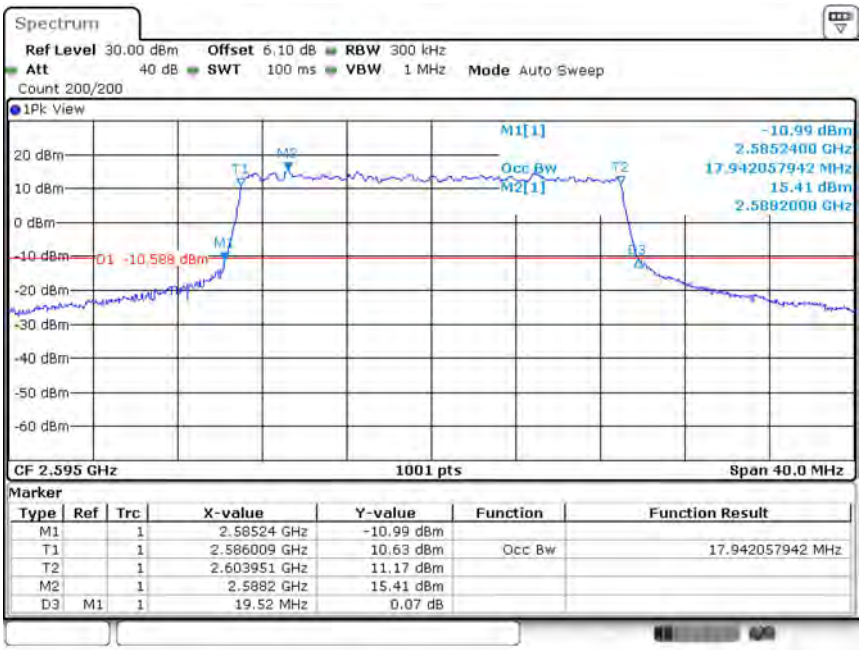


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.57024 GHz	-11.19 dBm		
T1		1	2.571049 GHz	11.04 dBm	Occ Bw	17.902097902 MHz
T2		1	2.588951 GHz	11.33 dBm		
M2		1	2.5732 GHz	15.58 dBm		
D3	M1	1	19.52 MHz	0.51 dB		

Date: 14.AUG.2020 13:50:53

Band38-20MHz-QPSK-38000-100RB#0-17.942



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58524 GHz	-10.99 dBm		
T1		1	2.586009 GHz	10.63 dBm	Occ Bw	17.942057942 MHz
T2		1	2.603951 GHz	11.17 dBm		
M2		1	2.5882 GHz	15.41 dBm		
D3	M1	1	19.52 MHz	0.07 dB		

Date: 14.AUG.2020 13:53:51

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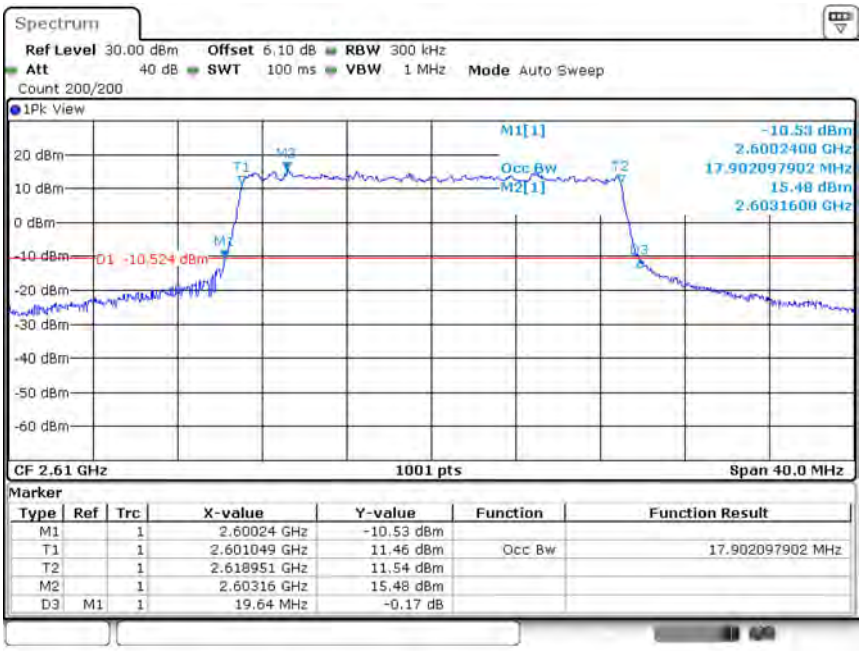
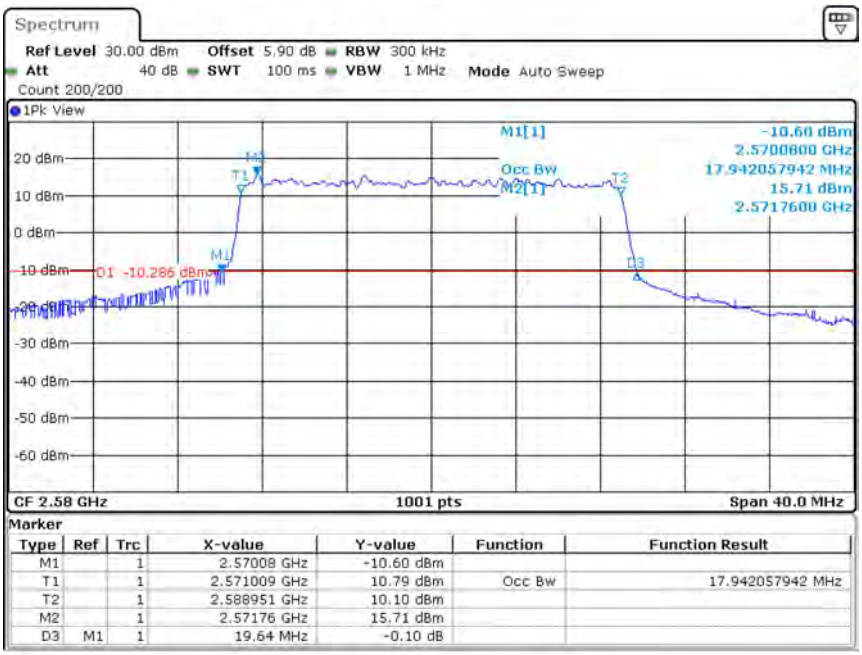
Band38-20MHz-QPSK-38150-100RB#0-17.902



Date: 14.AUG.2020 13:59:23

Band38-20MHz-64QAM-37850-100RB#0-17.942



Date: 28.AUG.2020 20:41:55

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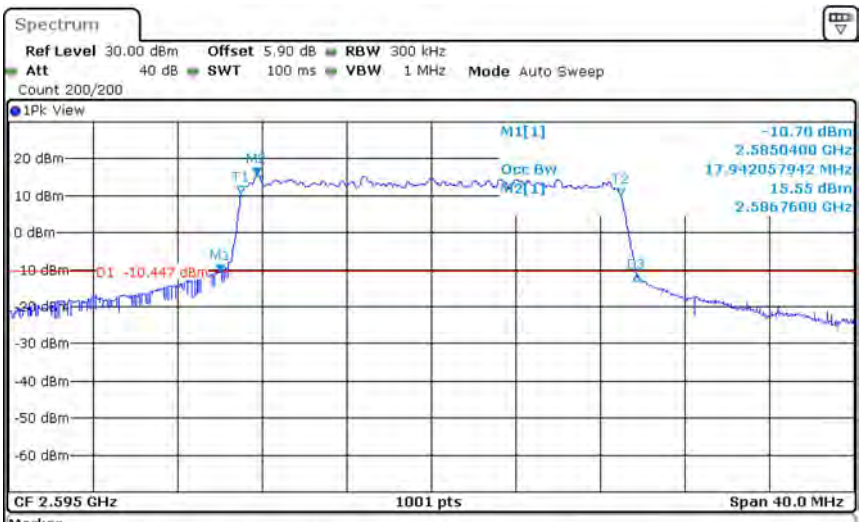
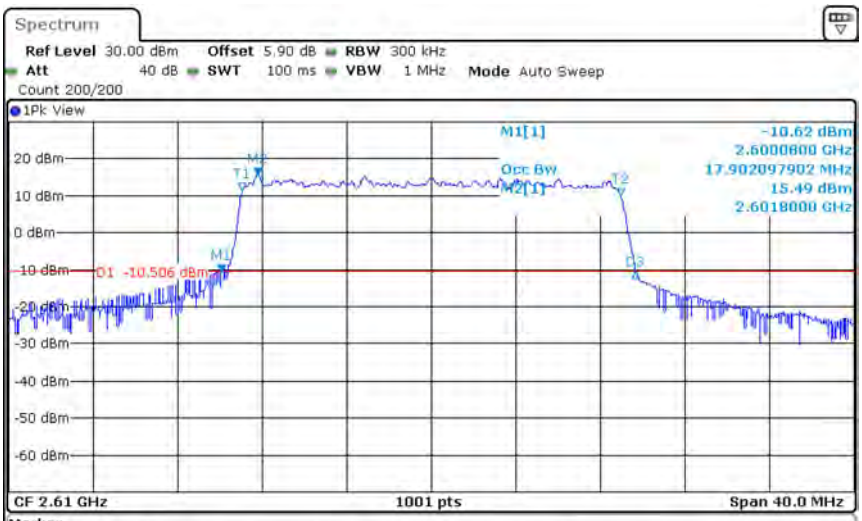


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58504 GHz	-10.70 dBm		
T1		1	2.586009 GHz	10.56 dBm	Occ Bw	17.942057942 MHz
T2		1	2.603951 GHz	10.03 dBm		
M2		1	2.58676 GHz	15.55 dBm		
D3	M1	1	19.68 MHz	-0.23 dB		

Date: 28.AUG.2020 20:43:30

Band38-20MHz-64QAM-38150-100RB#0-17.902



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.60008 GHz	-10.62 dBm		
T1		1	2.601049 GHz	11.25 dBm	Occ Bw	17.902097902 MHz
T2		1	2.618951 GHz	9.98 dBm		
M2		1	2.6018 GHz	15.49 dBm		
D3	M1	1	19.6 MHz	0.11 dB		

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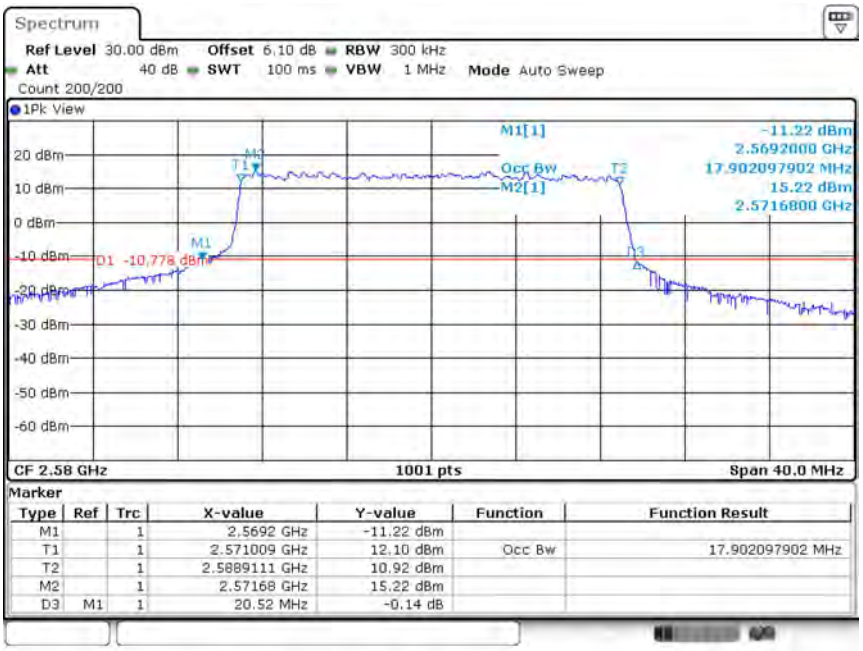
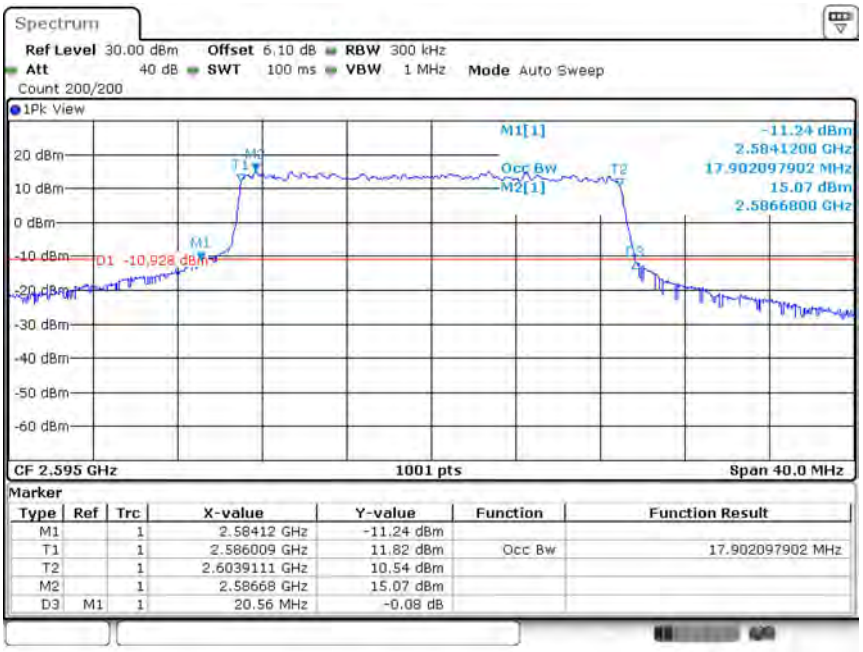


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5692 GHz	-11.22 dBm		
T1		1	2.571009 GHz	12.10 dBm	Occ Bw	17.902097902 MHz
T2		1	2.5889111 GHz	10.92 dBm		
M2		1	2.57168 GHz	15.22 dBm		
D3	M1	1	20.52 MHz	-0.14 dB		

Date: 14.AUG.2020 13:52:49

Band38-20MHz-16QAM-38000-100RB#0-17.902



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.58412 GHz	-11.24 dBm		
T1		1	2.586009 GHz	11.82 dBm	Occ Bw	17.902097902 MHz
T2		1	2.6039111 GHz	10.54 dBm		
M2		1	2.58668 GHz	15.07 dBm		
D3	M1	1	20.56 MHz	-0.08 dB		

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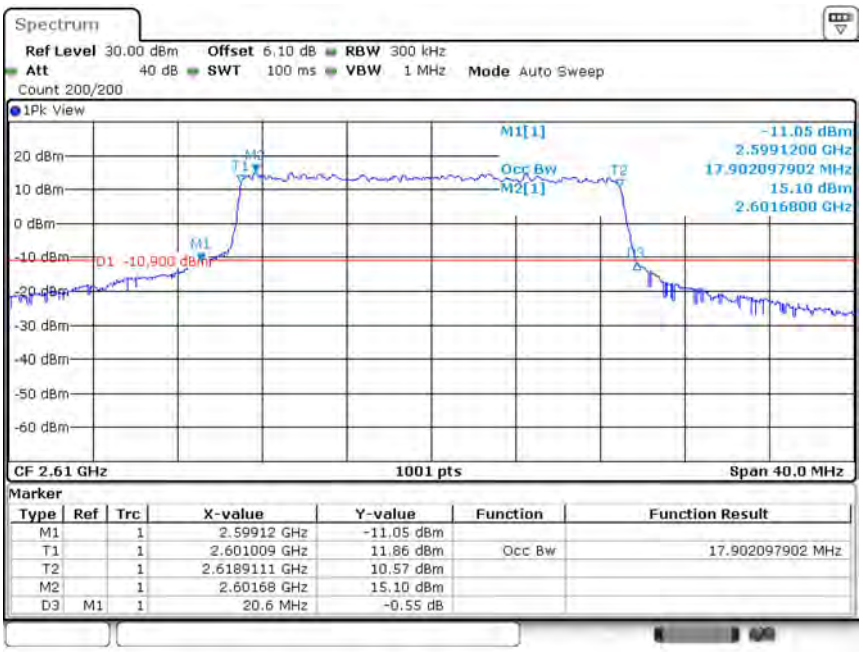

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.59912 GHz	-11.05 dBm		
T1		1	2.601009 GHz	11.86 dBm	Occ Bw	17.902097902 MHz
T2		1	2.6189111 GHz	10.57 dBm		
M2		1	2.60168 GHz	15.10 dBm		
D3	M1	1	20.6 MHz	-0.55 dB		

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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-49.50,-49.49,-17.42	PASS
Band38	5MHz	QPSK	37775	25RB#0	-45.07,-44.17,-26.84	PASS
Band38	5MHz	QPSK	38225	1RB#24	-51.05,-51.01,-19.06	PASS
Band38	5MHz	QPSK	38225	25RB#0	-42.90,-43.31,-25.38	PASS
Band38	5MHz	64QAM	37775	1RB#0	-50.53,-50.03,-16.70	PASS
Band38	5MHz	64QAM	37775	25RB#0	-44.61,-42.94,-27.09	PASS
Band38	5MHz	64QAM	38225	1RB#24	-50.23,-49.32,-17.59	PASS
Band38	5MHz	64QAM	38225	25RB#0	-43.26,-41.93,-24.93	PASS
Band38	5MHz	16QAM	37775	1RB#0	-50.46,-50.52,-15.93	PASS
Band38	5MHz	16QAM	37775	25RB#0	-45.40,-43.40,-25.08	PASS
Band38	5MHz	16QAM	38225	1RB#24	-49.77,-49.66,-18.17	PASS
Band38	5MHz	16QAM	38225	25RB#0	-42.72,-41.43,-25.76	PASS
Band38	10MHz	QPSK	37800	1RB#0	-48.90,-47.34,-23.65	PASS
Band38	10MHz	QPSK	37800	50RB#0	-42.67,-39.29,-29.12	PASS
Band38	10MHz	QPSK	38200	1RB#49	-48.57,-45.34,-23.21	PASS
Band38	10MHz	QPSK	38200	50RB#0	-42.27,-37.64,-28.41	PASS
Band38	10MHz	64QAM	37800	1RB#0	-47.03,-43.08,-22.79	PASS
Band38	10MHz	64QAM	37800	50RB#0	-42.02,-37.72,-29.06	PASS
Band38	10MHz	64QAM	38200	1RB#49	-49.03,-44.53,-23.81	PASS
Band38	10MHz	64QAM	38200	50RB#0	-41.55,-37.82,-29.65	PASS
Band38	10MHz	16QAM	37800	1RB#0	-49.13,-47.72,-22.28	PASS
Band38	10MHz	16QAM	37800	50RB#0	-42.45,-38.16,-29.55	PASS
Band38	10MHz	16QAM	38200	1RB#49	-48.52,-44.45,-24.33	PASS
Band38	10MHz	16QAM	38200	50RB#0	-41.36,-36.77,-28.93	PASS
Band38	15MHz	QPSK	37825	1RB#0	-41.71,-36.22,-23.70	PASS
Band38	15MHz	QPSK	37825	75RB#0	-43.34,-38.54,-31.79	PASS
Band38	15MHz	QPSK	38175	1RB#74	-42.29,-40.27,-23.98	PASS
Band38	15MHz	QPSK	38175	75RB#0	-42.57,-37.39,-30.64	PASS
Band38	15MHz	64QAM	37825	1RB#0	-42.19,-36.96,-21.56	PASS
Band38	15MHz	64QAM	37825	75RB#0	-41.94,-36.85,-30.32	PASS
Band38	15MHz	64QAM	38175	1RB#74	-42.95,-41.88,-22.11	PASS
Band38	15MHz	64QAM	38175	75RB#0	-41.53,-37.67,-31.46	PASS

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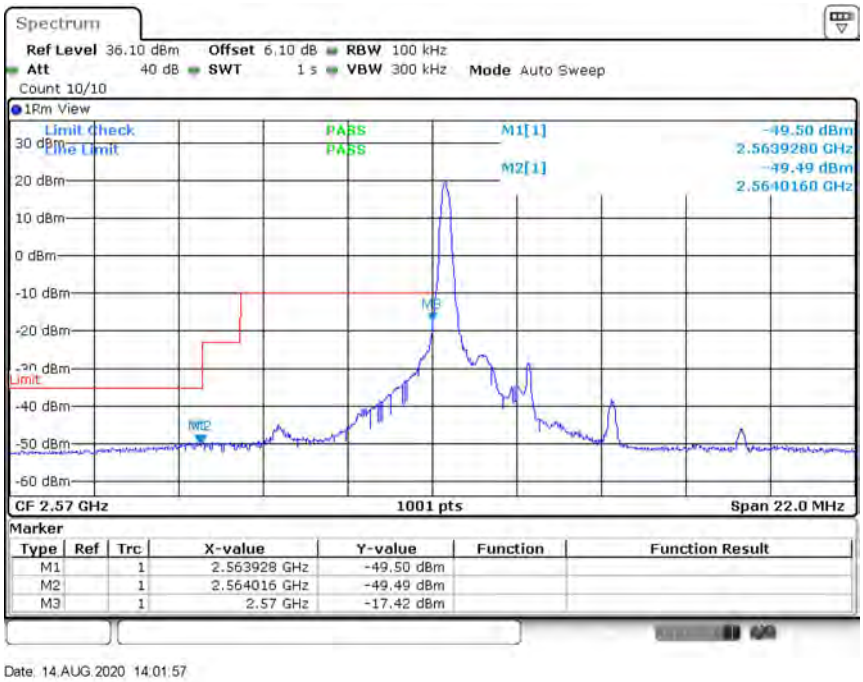
Band38	15MHz	16QAM	37825	1RB#0	-41.57,-36.15,-23.86	PASS
Band38	15MHz	16QAM	37825	75RB#0	-42.09,-36.38,-31.69	PASS
Band38	15MHz	16QAM	38175	1RB#74	-42.67,-41.11,-22.33	PASS
Band38	15MHz	16QAM	38175	75RB#0	-41.49,-36.25,-30.28	PASS
Band38	20MHz	QPSK	37850	1RB#0	-45.34,-38.73,-22.36	PASS
Band38	20MHz	QPSK	37850	100RB#0	-41.44,-36.90,-31.57	PASS
Band38	20MHz	QPSK	38150	1RB#99	-45.32,-41.54,-23.10	PASS
Band38	20MHz	QPSK	38150	100RB#0	-40.99,-37.30,-30.74	PASS
Band38	20MHz	64QAM	37850	1RB#0	-45.37,-39.02,-20.65	PASS
Band38	20MHz	64QAM	37850	100RB#0	-40.42,-35.30,-31.35	PASS
Band38	20MHz	64QAM	38150	1RB#99	-45.38,-40.93,-20.02	PASS
Band38	20MHz	64QAM	38150	100RB#0	-40.25,-36.55,-31.74	PASS
Band38	20MHz	16QAM	37850	1RB#0	-45.30,-38.30,-20.99	PASS
Band38	20MHz	16QAM	37850	100RB#0	-40.97,-34.88,-30.38	PASS
Band38	20MHz	16QAM	38150	1RB#99	-45.09,-40.64,-22.77	PASS
Band38	20MHz	16QAM	38150	100RB#0	-40.37,-35.63,-31.72	PASS

5.2. Test Plots

Band38-5MHz-QPSK-37775-1RB#0



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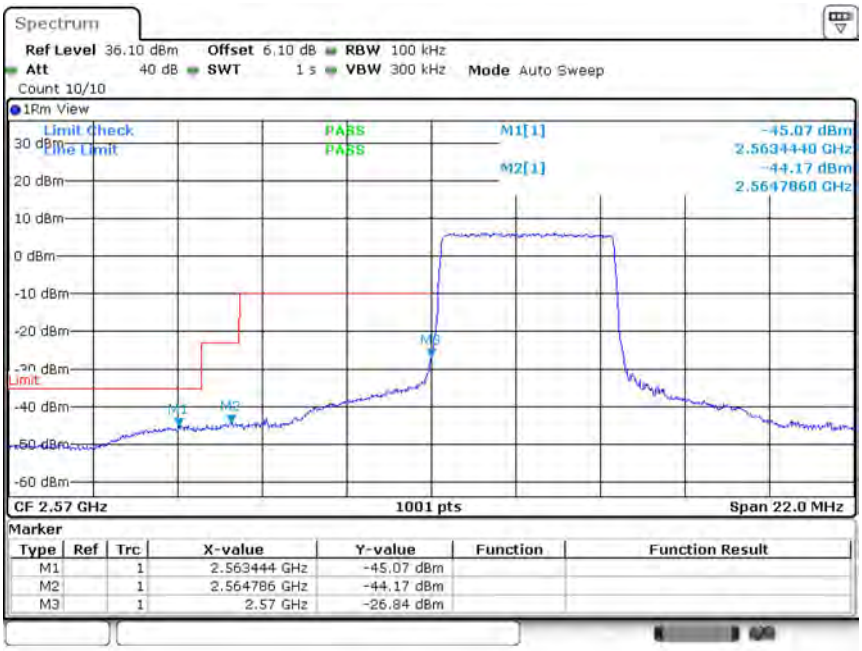
Band38-5MHz-QPSK-37775-25RB#0



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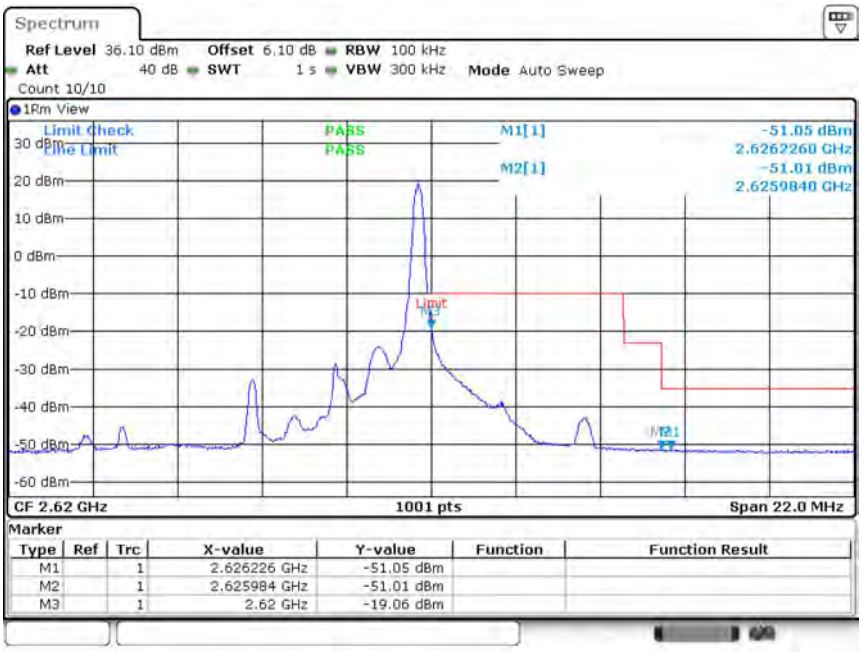
Band38-5MHz-QPSK-38225-1RB#24



Date: 14.AUG.2020 14:03:26

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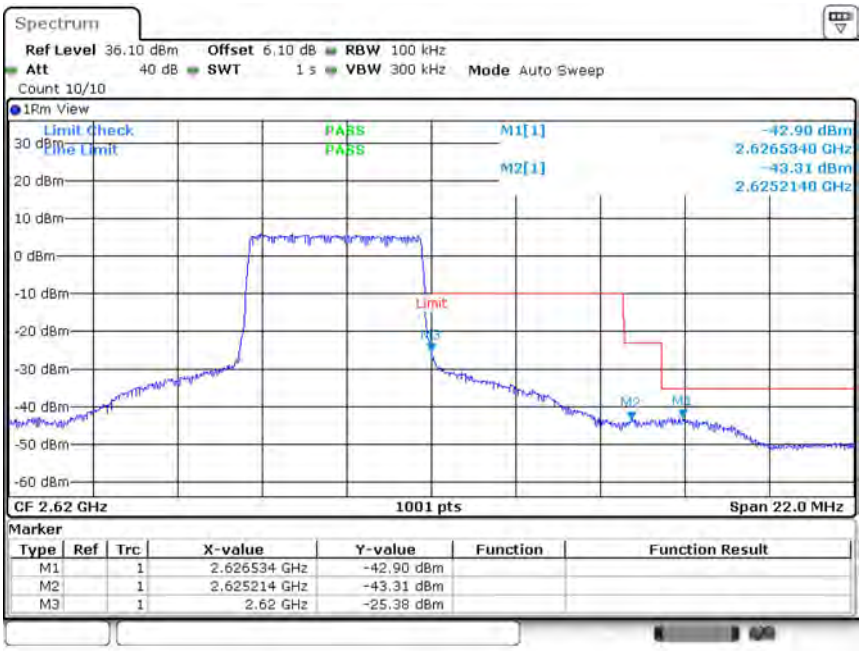
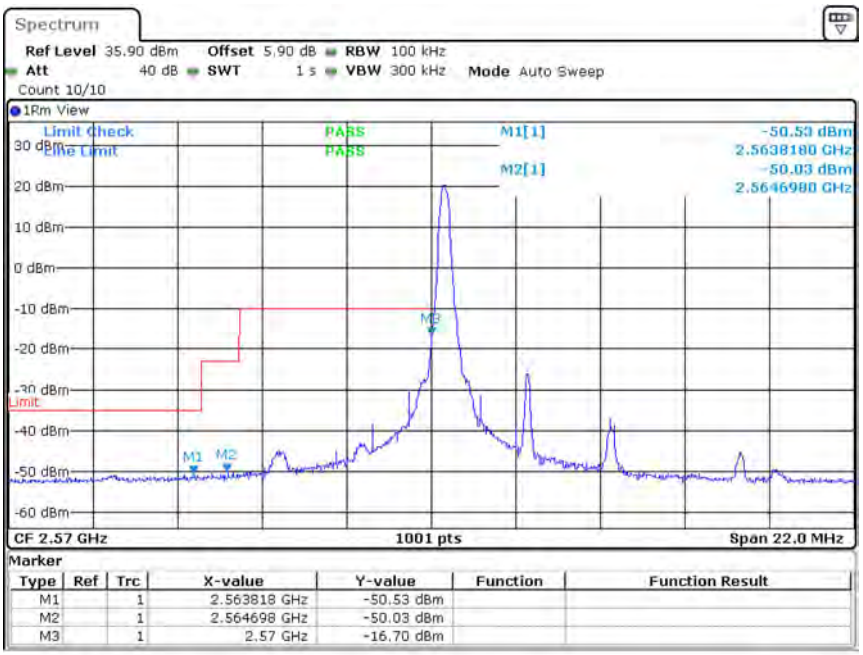
Band38-5MHz-QPSK-38225-25RB#0



Date: 14.AUG.2020 14:06:39

Band38-5MHz-64QAM-37775-1RB#0



Date: 28.AUG.2020 20:44:30

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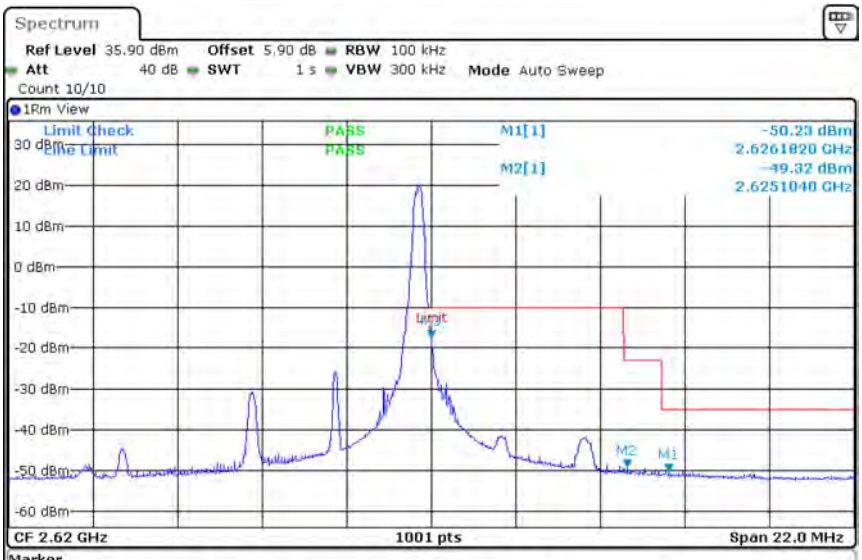
Band38-5MHz-64QAM-37775-25RB#0

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56351 GHz	-44.61 dBm		
M2		1	2.564764 GHz	-42.94 dBm		
M3		1	2.57 GHz	-27.09 dBm		

Date: 28.AUG.2020 20:47:22

Band38-5MHz-64QAM-38225-1RB#24



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.626182 GHz	-50.23 dBm		
M2		1	2.625104 GHz	-49.32 dBm		
M3		1	2.62 GHz	-17.59 dBm		

Date: 28.AUG.2020 20:46:56

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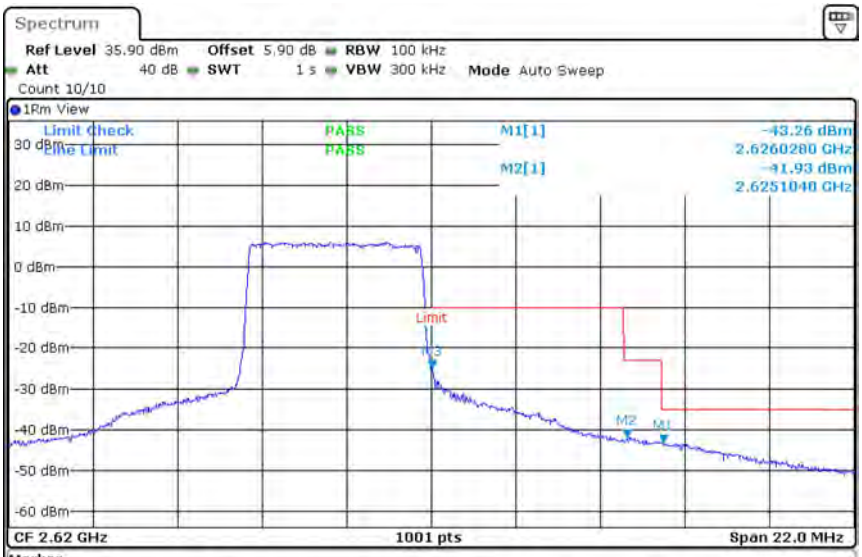
Band38-5MHz-64QAM-38225-25RB#0

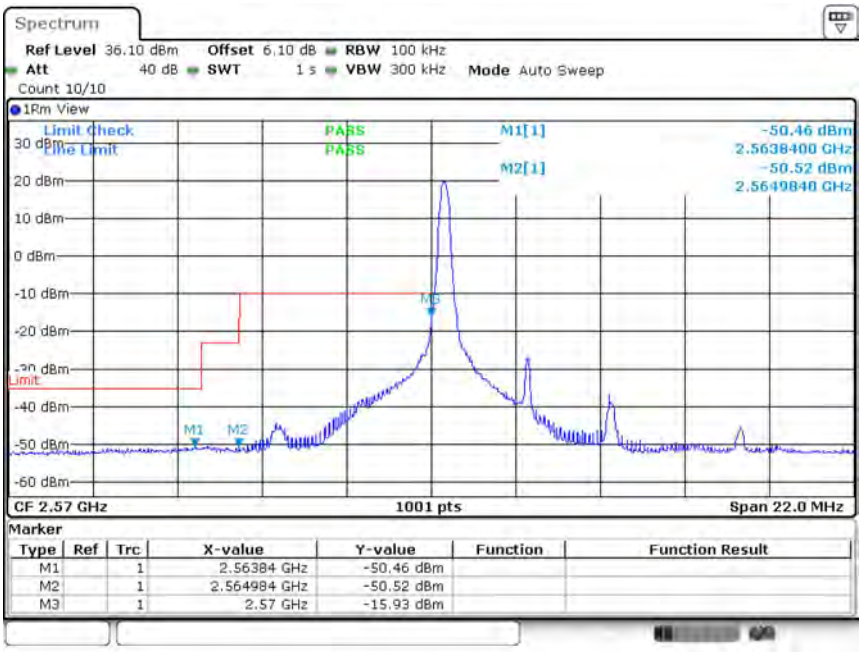


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.626028 GHz	-43.26 dBm		
M2		1	2.625104 GHz	-41.93 dBm		
M3		1	2.620022 GHz	-24.93 dBm		

Date: 28.AUG.2020 20:48:13

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



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.56384 GHz	-50.46 dBm		
M2		1	2.564984 GHz	-50.52 dBm		
M3		1	2.57 GHz	-15.93 dBm		

Date: 14.AUG.2020 14:02:19

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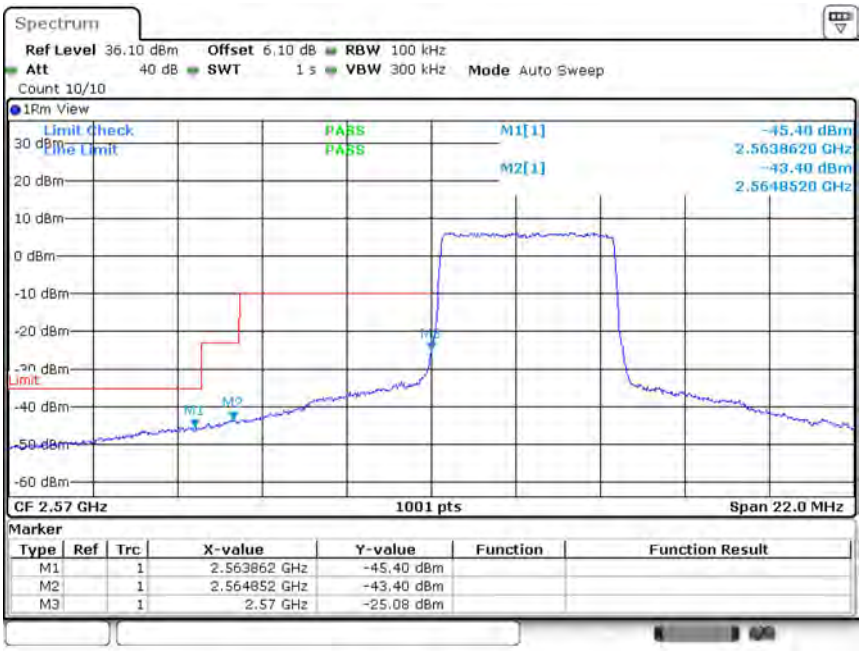
Band38-5MHz-16QAM-37775-25RB#0



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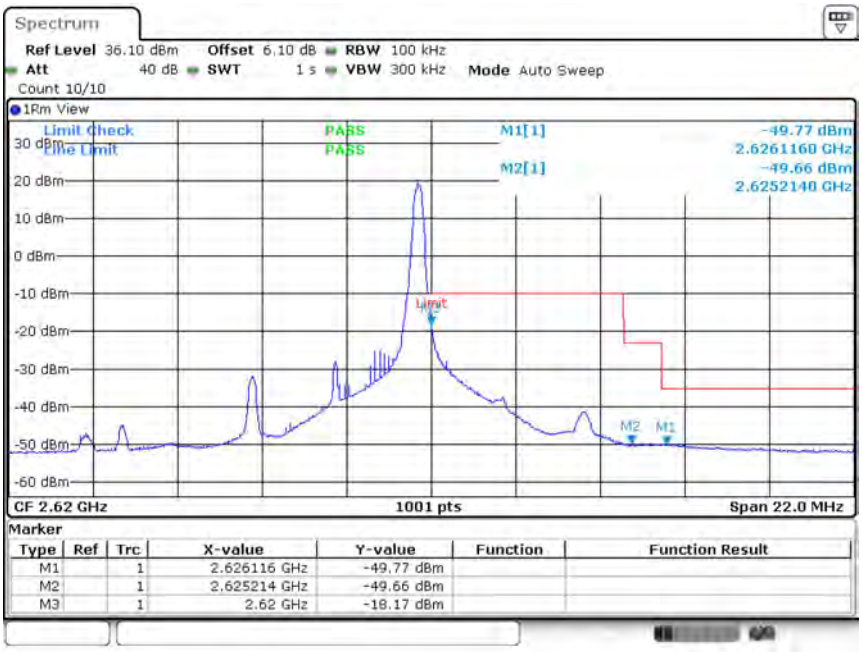
Band38-5MHz-16QAM-38225-1RB#24



Date: 14.AUG.2020 14:05:00

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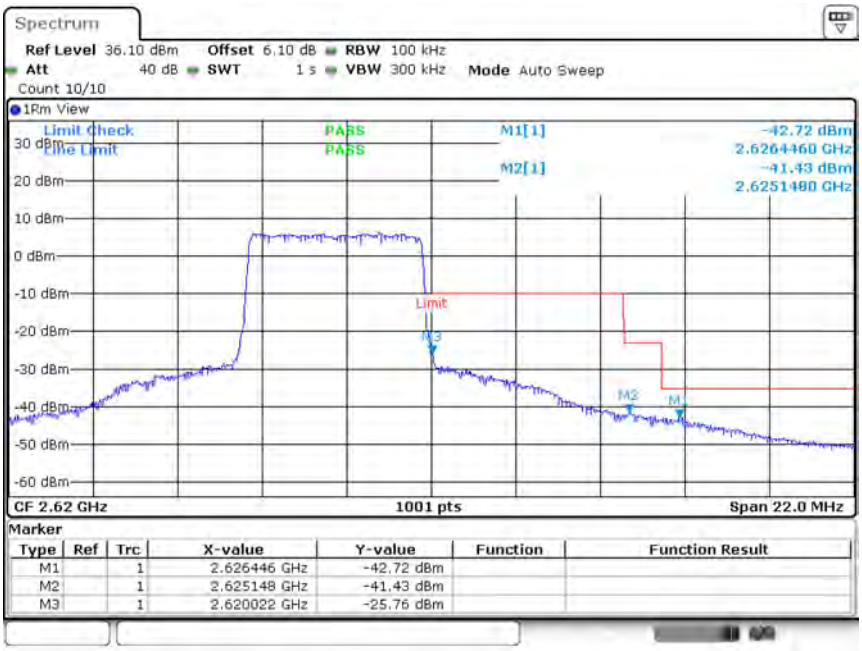

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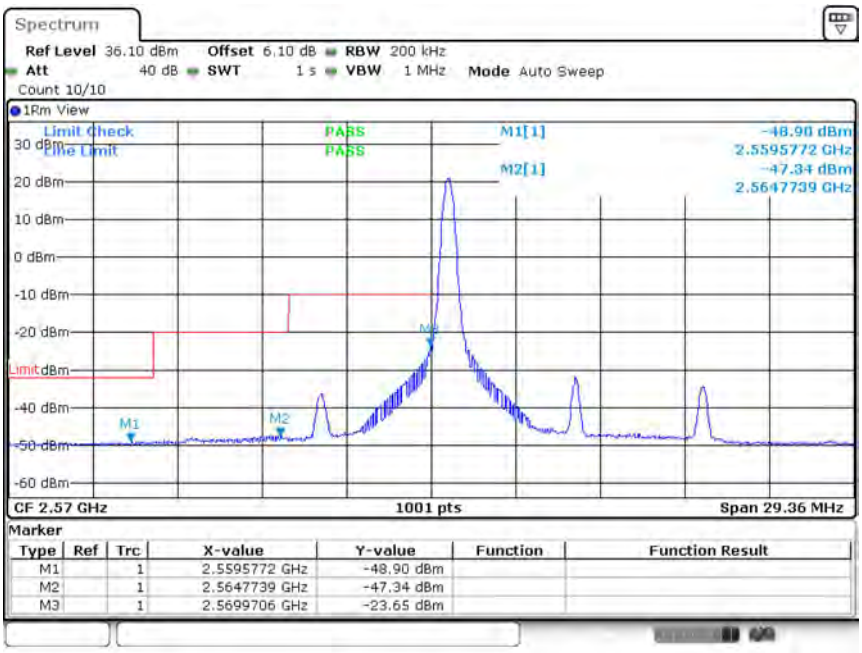
Band38-10MHz-QPSK-37800-1RB#0



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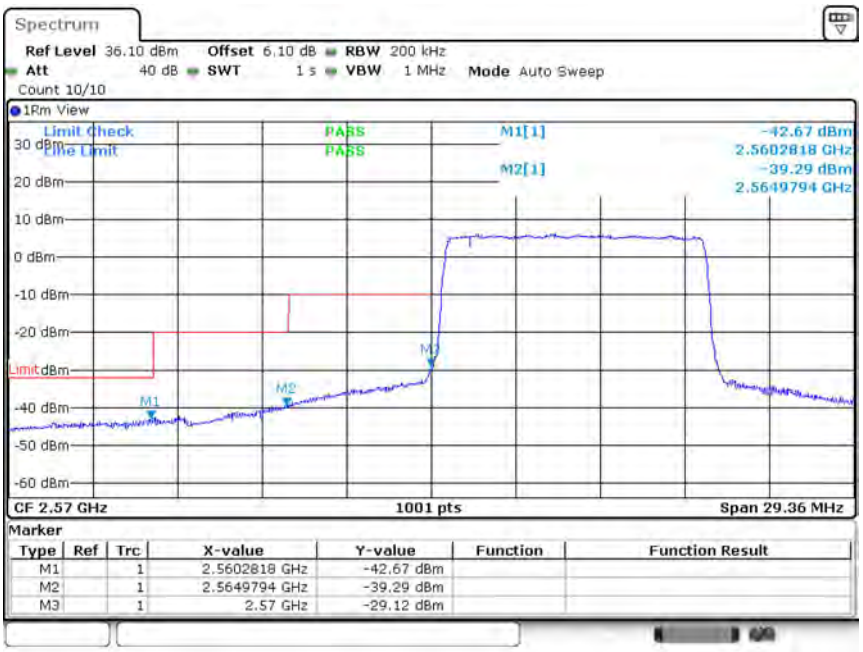
Band38-10MHz-QPSK-37800-50RB#0



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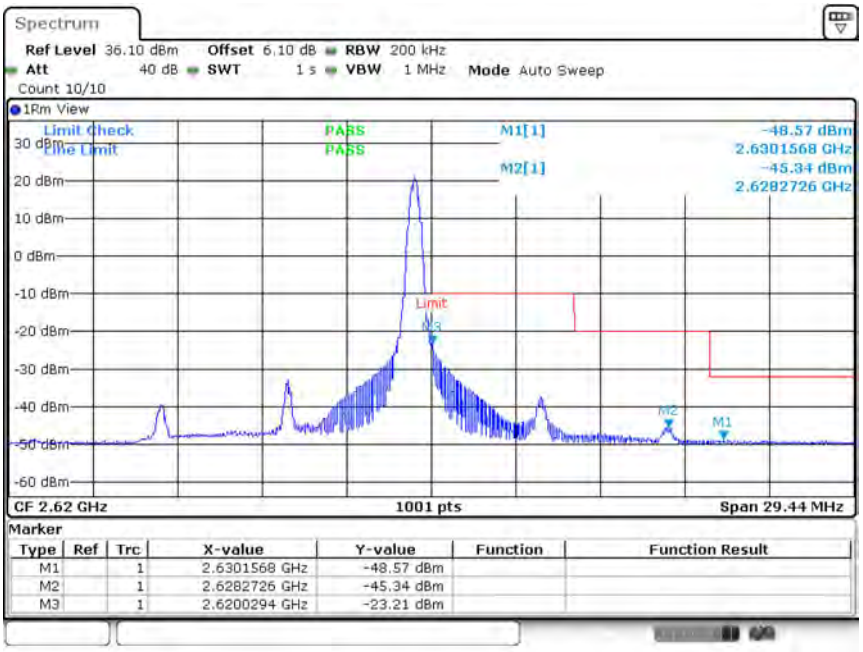
Band38-10MHz-QPSK-38200-1RB#49



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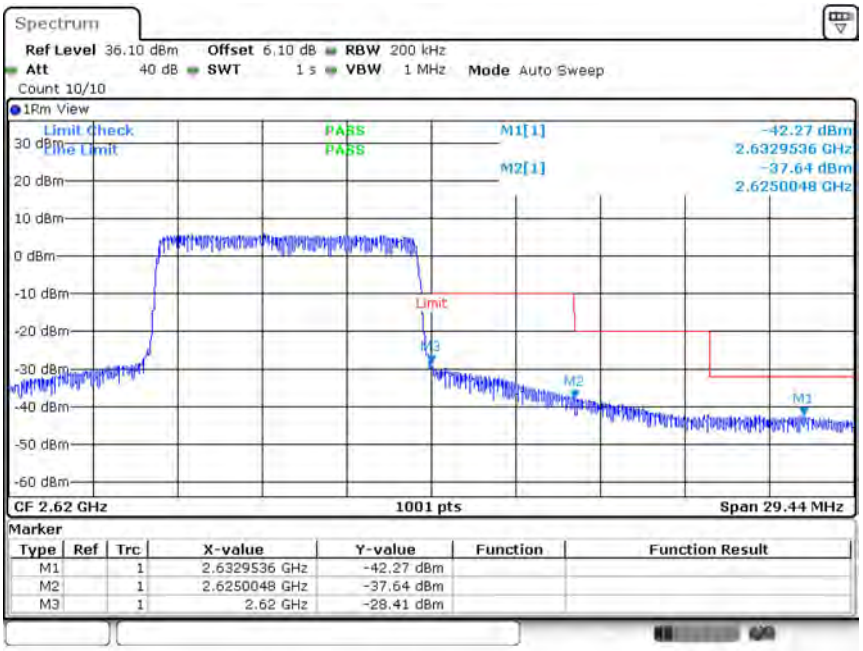
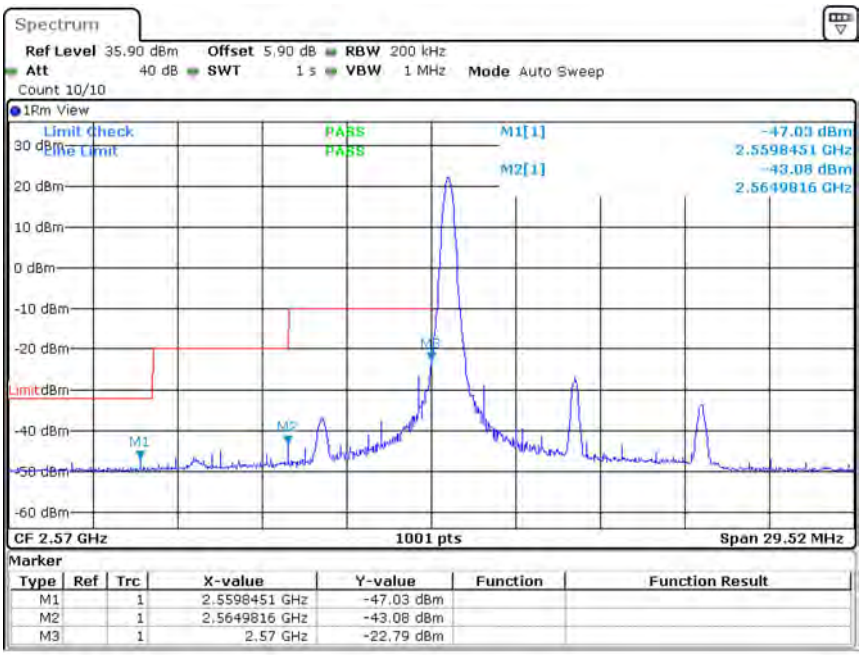
Band38-10MHz-QPSK-38200-50RB#0



Date: 13.AUG.2020 21:44:38

Band38-10MHz-64QAM-37800-1RB#0



Date: 28.AUG.2020 20:48:41

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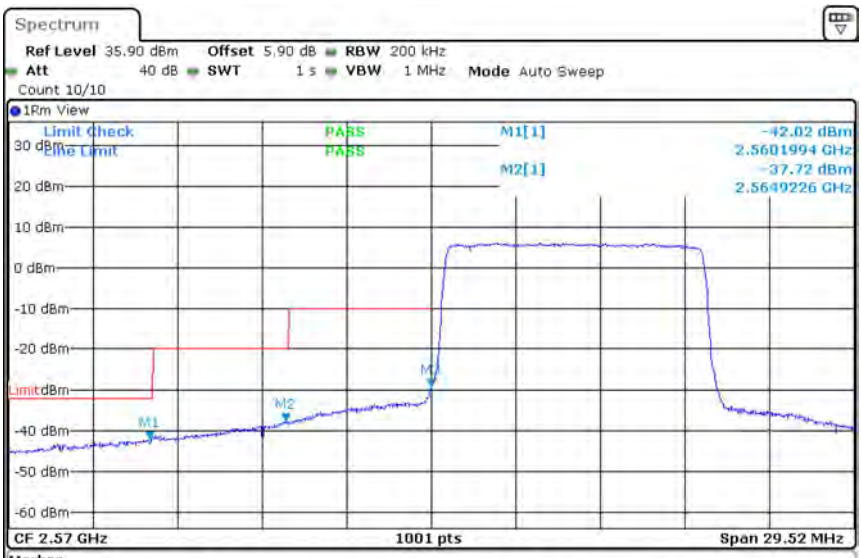
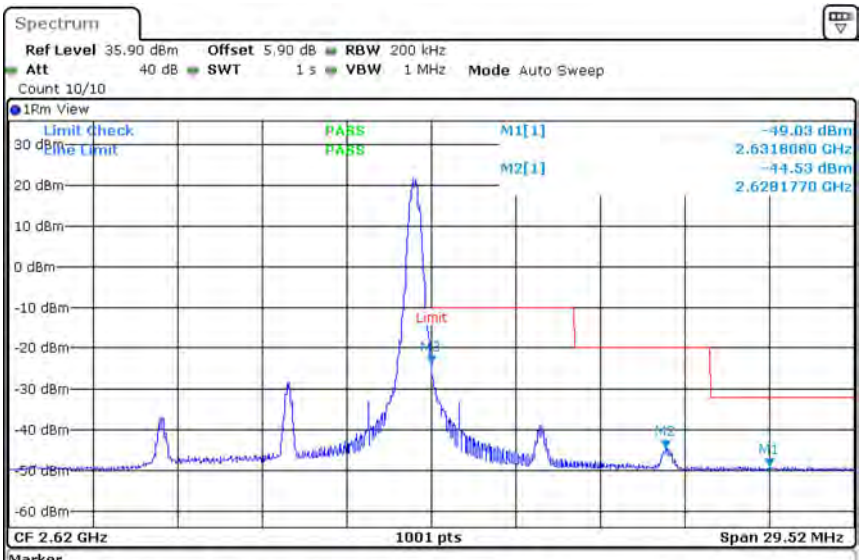


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5601994 GHz	-42.02 dBm		
M2		1	2.5649226 GHz	-37.72 dBm		
M3		1	2.57 GHz	-29.06 dBm		

Date: 28.AUG.2020 20:49:34

Band38-10MHz-64QAM-38200-1RB#49



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.631808 GHz	-49.03 dBm		
M2		1	2.628177 GHz	-44.53 dBm		
M3		1	2.62 GHz	-23.81 dBm		

Date: 28.AUG.2020 20:49:08

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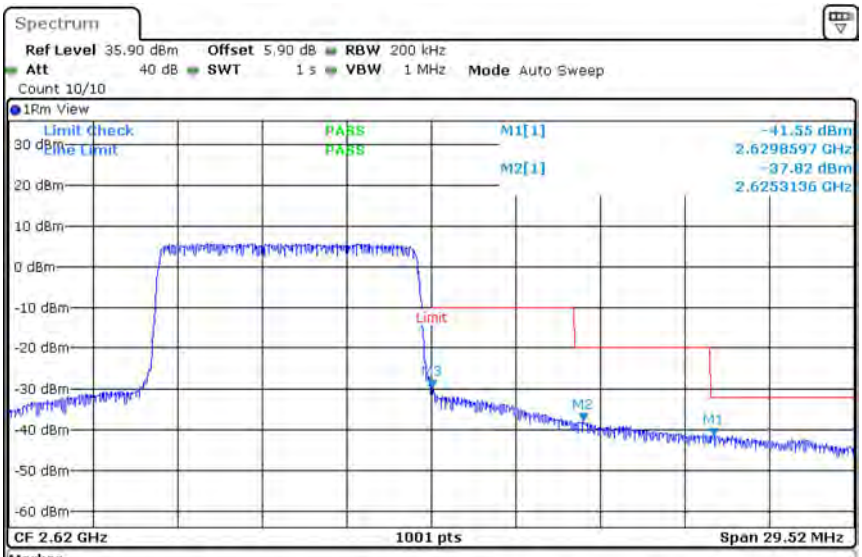
Band38-10MHz-64QAM-38200-50RB#0

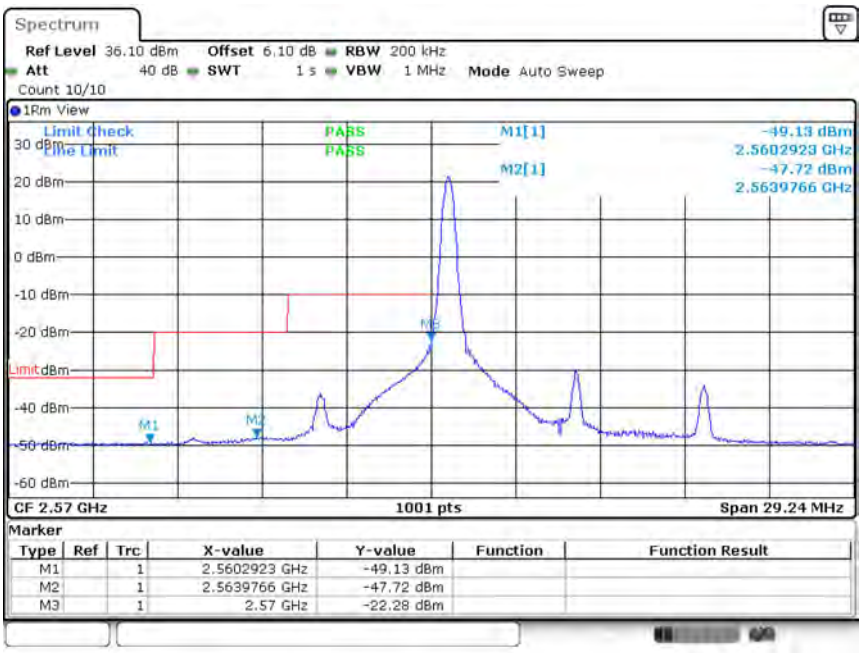


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.6298597 GHz	-41.55 dBm		
M2		1	2.6253136 GHz	-37.82 dBm		
M3		1	2.6200295 GHz	-29.65 dBm		

Date: 28.AUG.2020 20:49:56

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



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5602923 GHz	-49.13 dBm		
M2		1	2.5639766 GHz	-47.72 dBm		
M3		1	2.57 GHz	-22.28 dBm		

Date: 13.AUG.2020 21:42:41

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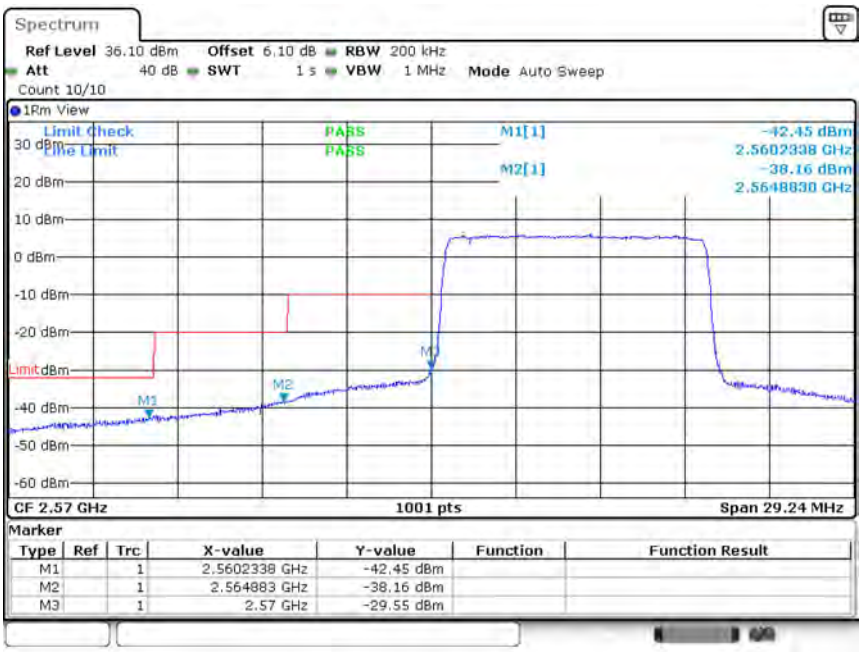
Band38-10MHz-16QAM-37800-50RB#0



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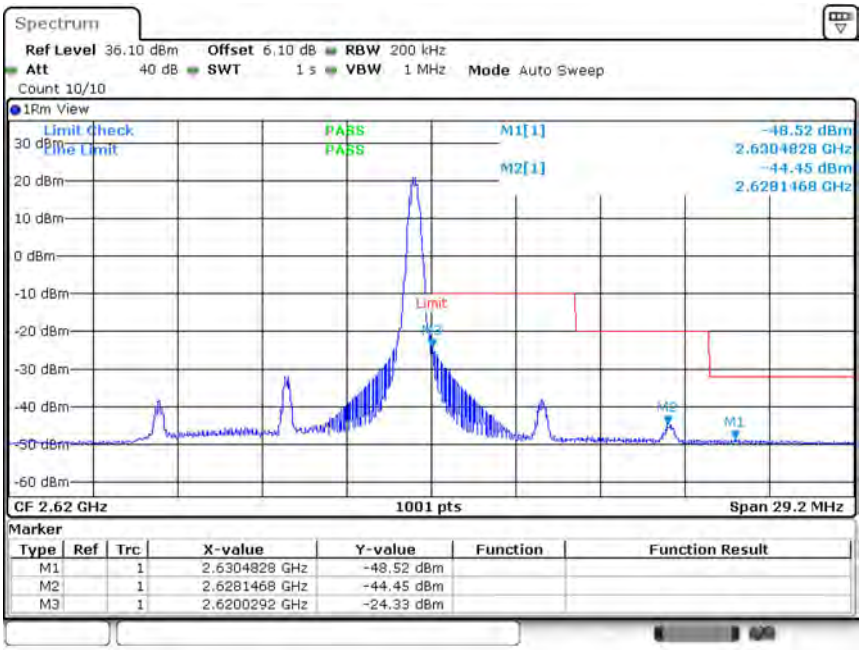
Band38-10MHz-16QAM-38200-1RB#49



Date: 13.AUG.2020 21:43:28

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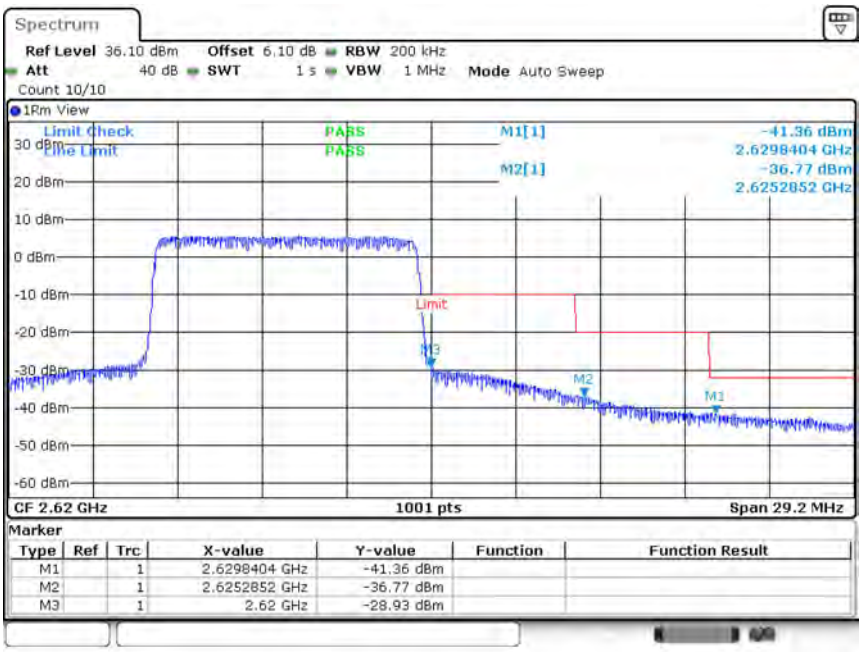
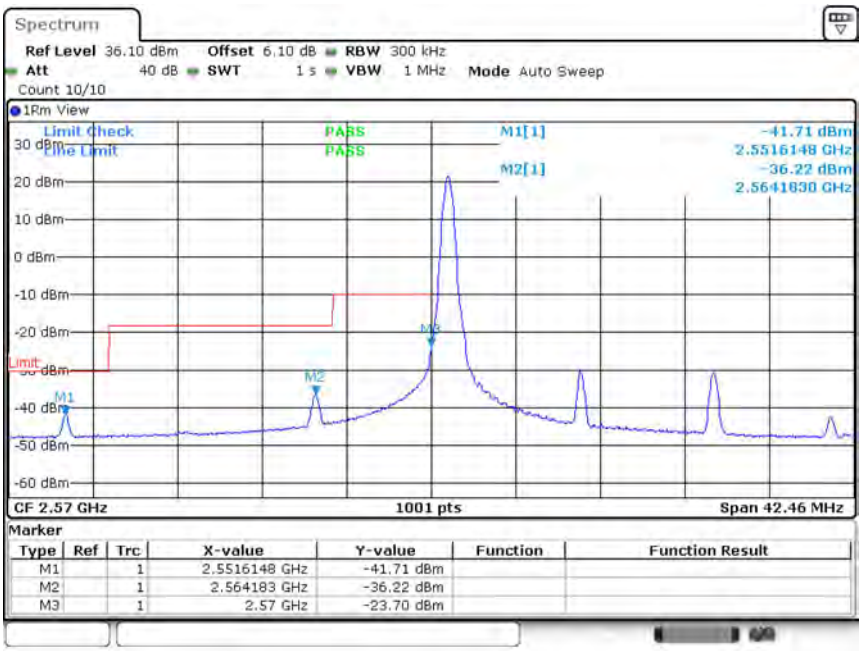
Band38-10MHz-16QAM-38200-50RB#0



Date: 13.AUG.2020 21:45:00

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



Date: 13.AUG.2020 21:45:26

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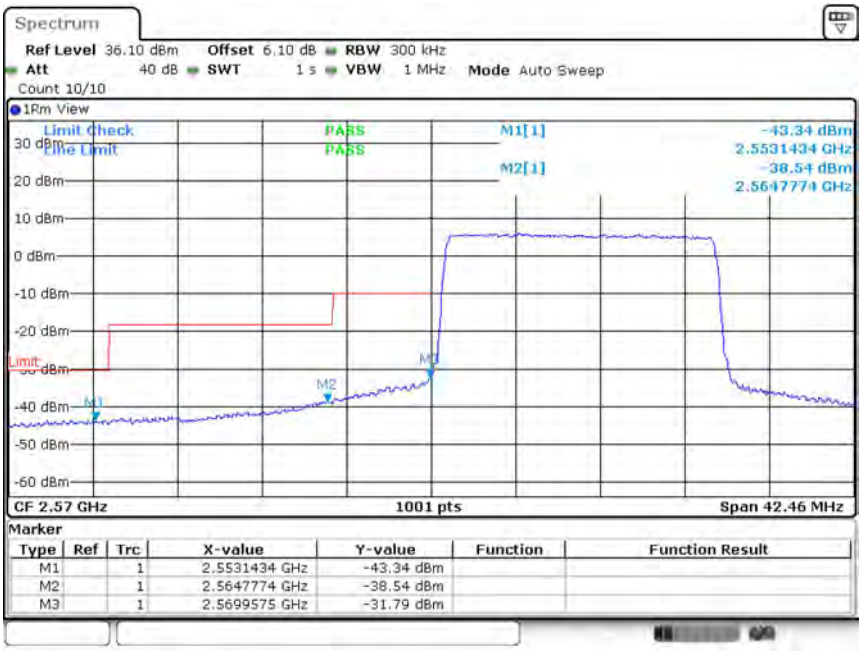
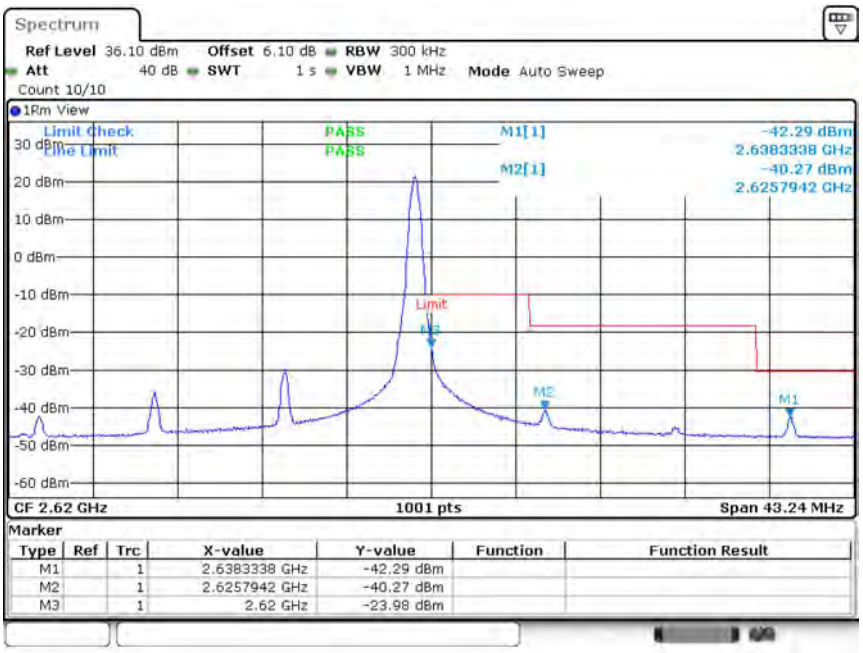
Band38-15MHz-QPSK-37825-75RB#0



Date: 13.AUG.2020 21:47:02

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



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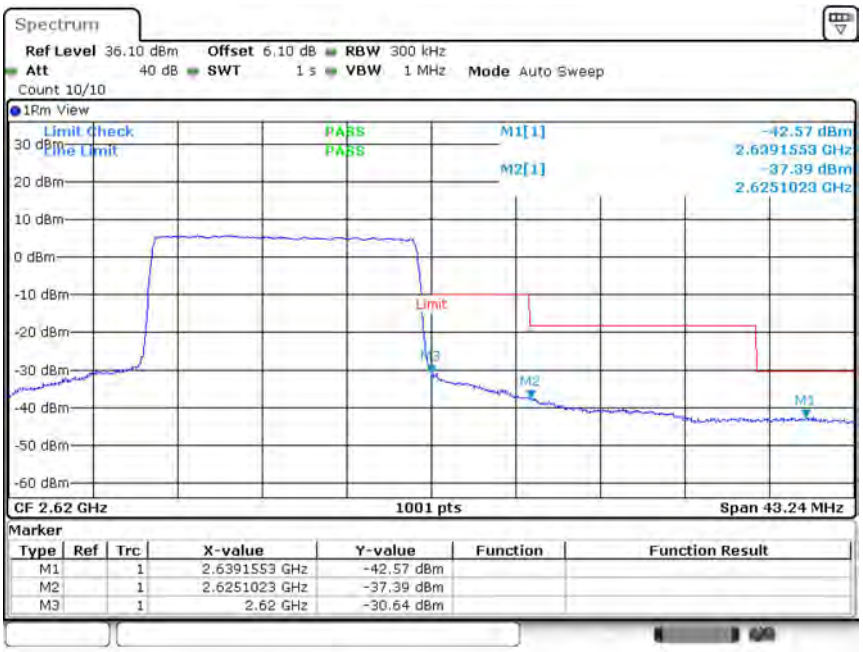
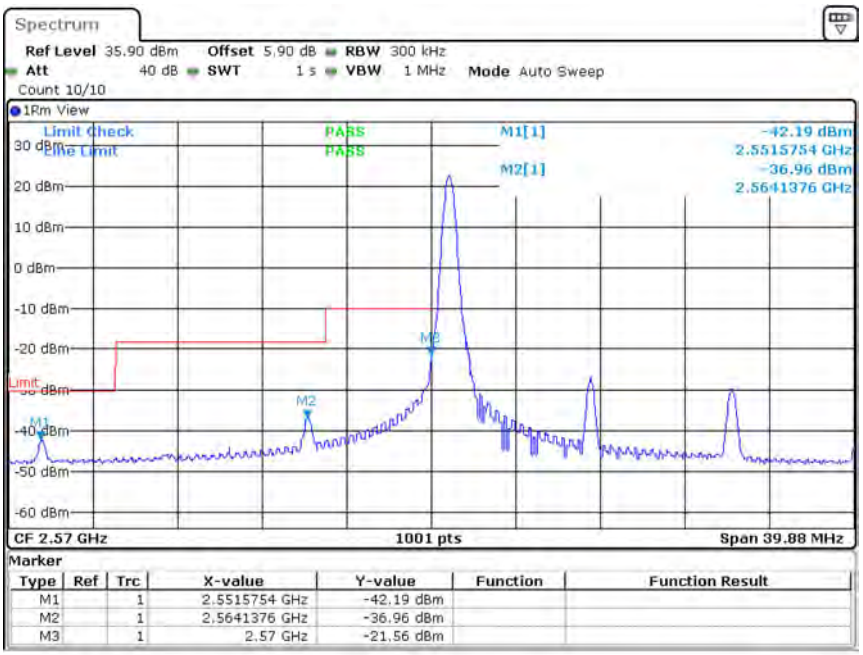
Band38-15MHz-QPSK-38175-75RB#0



Date: 13.AUG.2020 21:47:46

Band38-15MHz-64QAM-37825-1RB#0



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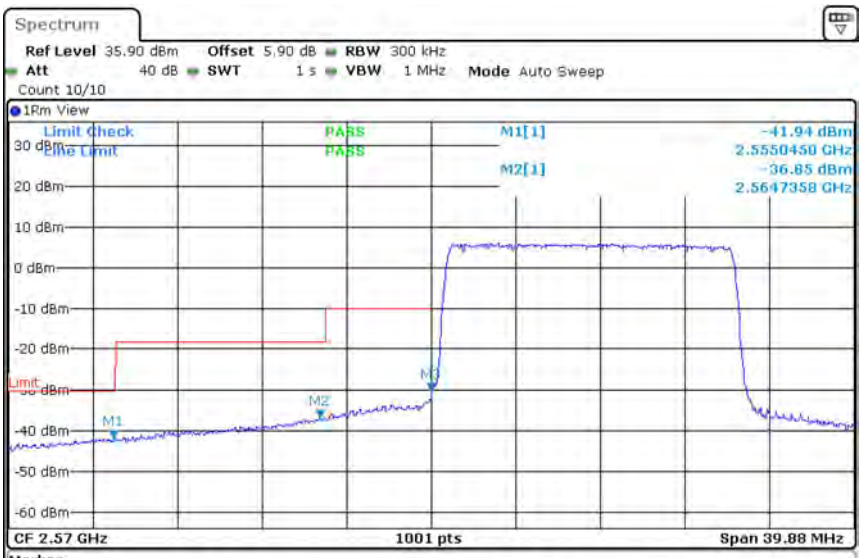
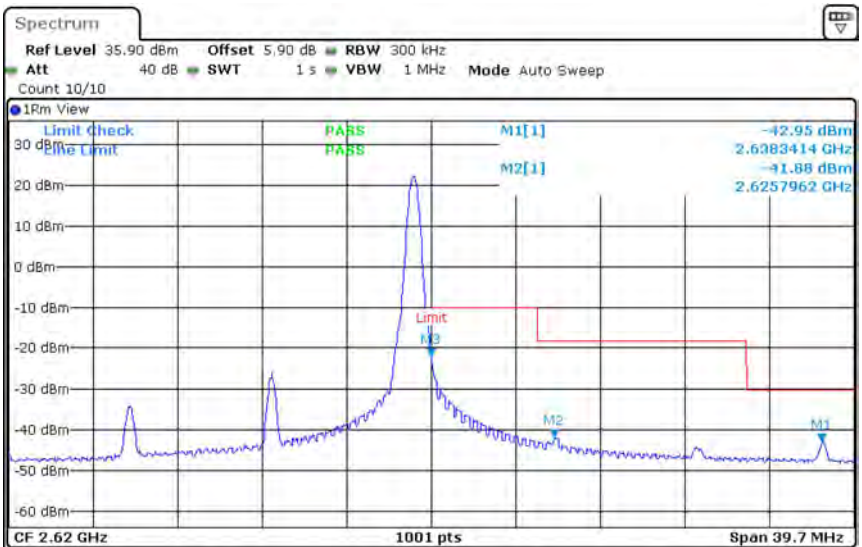


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.555045 GHz	-41.94 dBm		
M2		1	2.5647358 GHz	-36.85 dBm		
M3		1	2.57 GHz	-30.32 dBm		

Date: 28.AUG.2020 20:51:16

Band38-15MHz-64QAM-38175-1RB#74



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.6383414 GHz	-42.95 dBm		
M2		1	2.6257962 GHz	-41.88 dBm		
M3		1	2.62 GHz	-22.11 dBm		

Date: 28.AUG.2020 20:50:50

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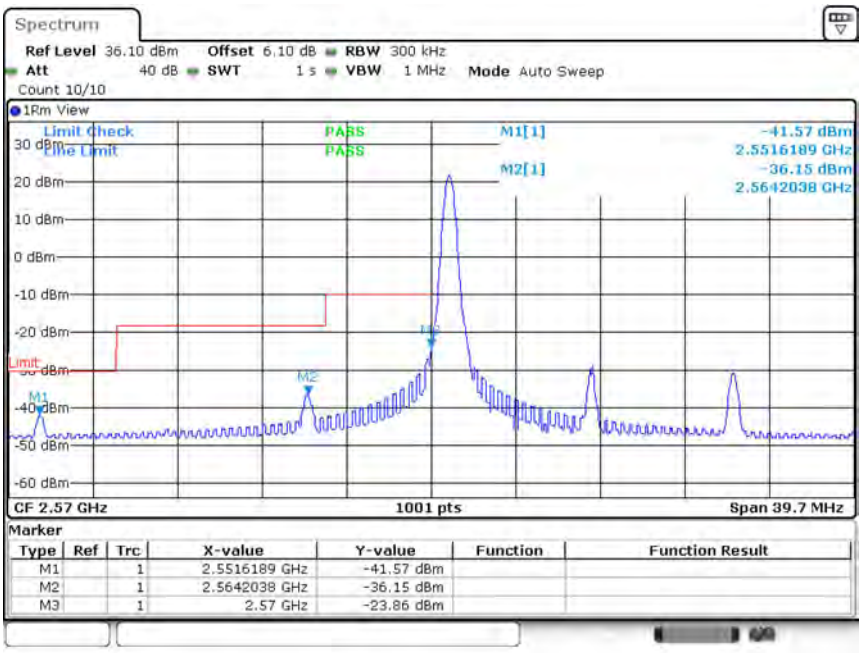
Band38-15MHz-64QAM-38175-75RB#0

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.6360388 GHz	-41.53 dBm		
M2		1	2.6250816 GHz	-37.67 dBm		
M3		1	2.62 GHz	-31.46 dBm		

Date: 28.AUG.2020 20:51:39

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



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5516189 GHz	-41.57 dBm		
M2		1	2.5642038 GHz	-36.15 dBm		
M3		1	2.57 GHz	-23.86 dBm		

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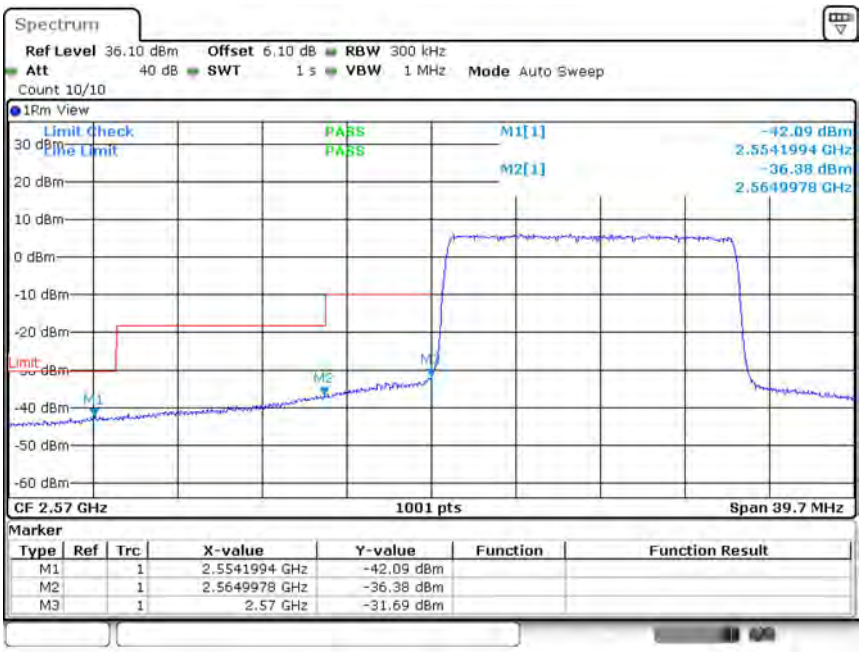

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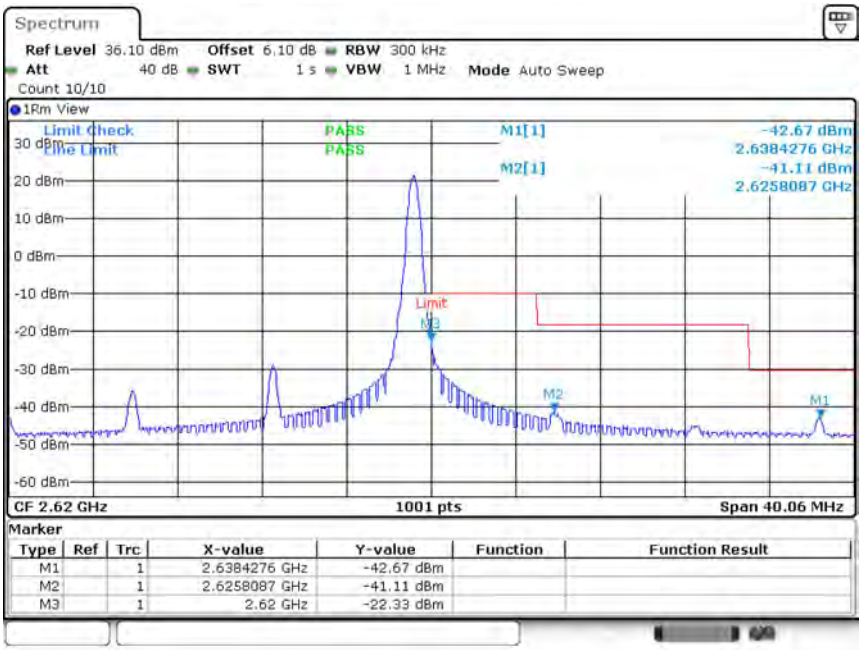
Band38-15MHz-16QAM-38175-1RB#74



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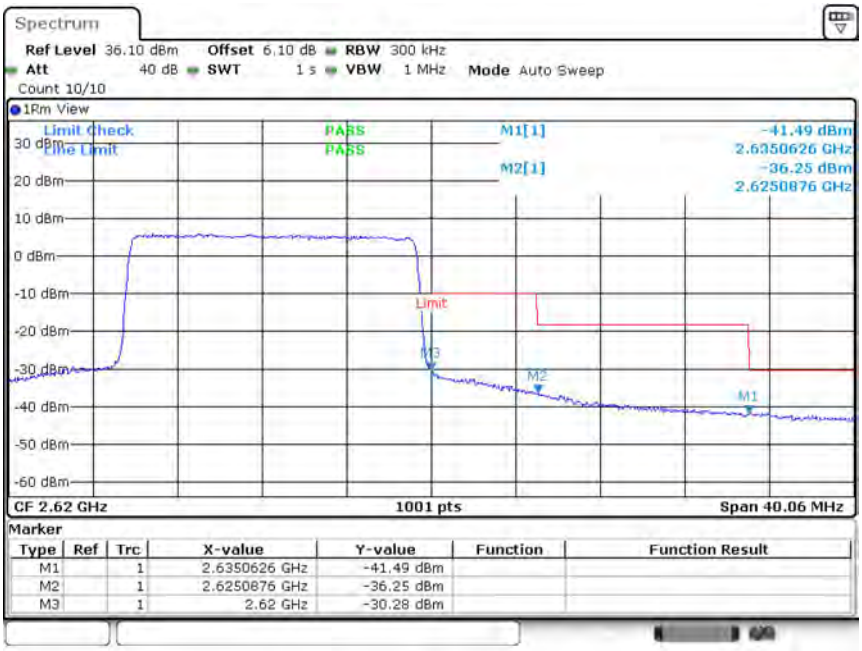
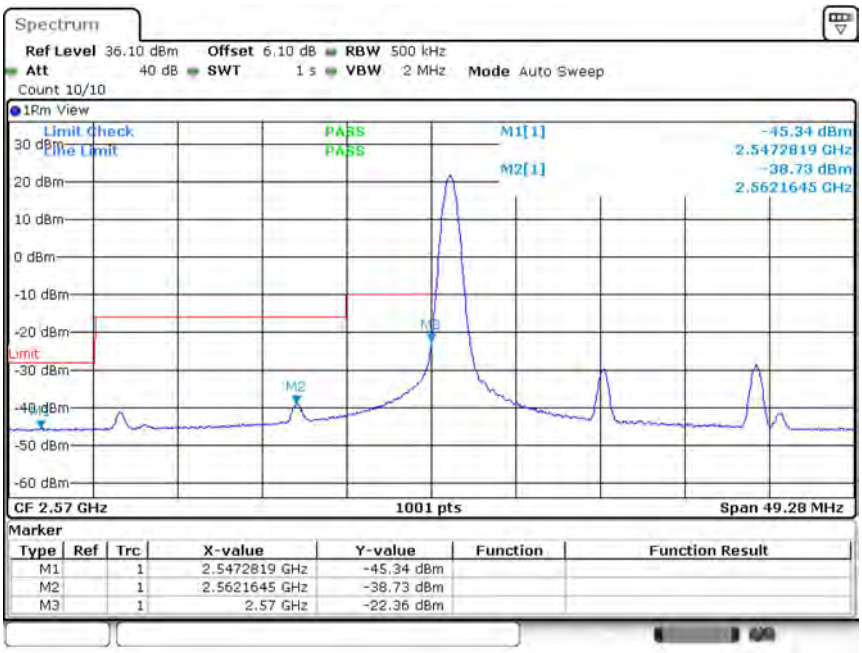


Date: 13.AUG.2020 21:48:08

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



Date: 13.AUG.2020 21:48:35

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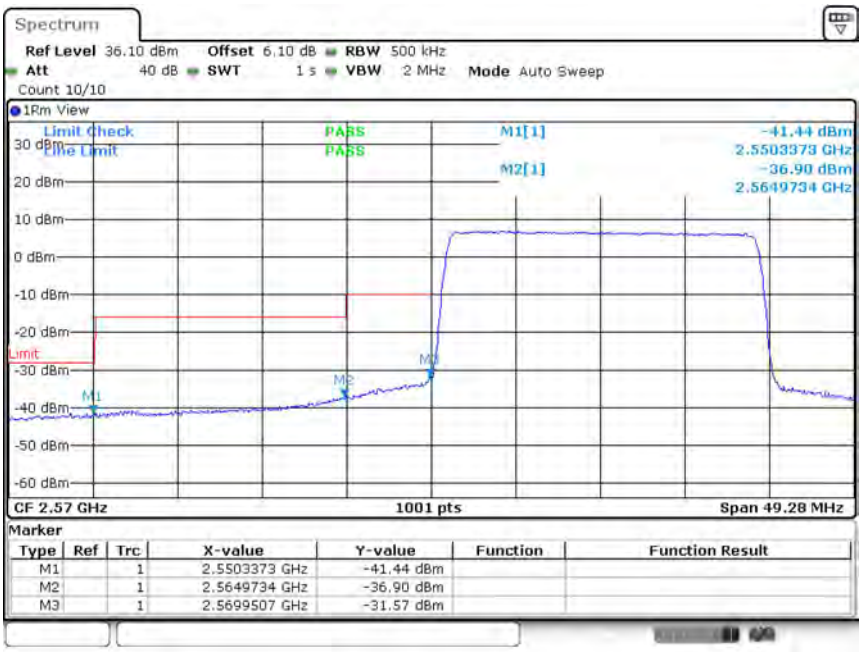
Band38-20MHz-QPSK-37850-100RB#0



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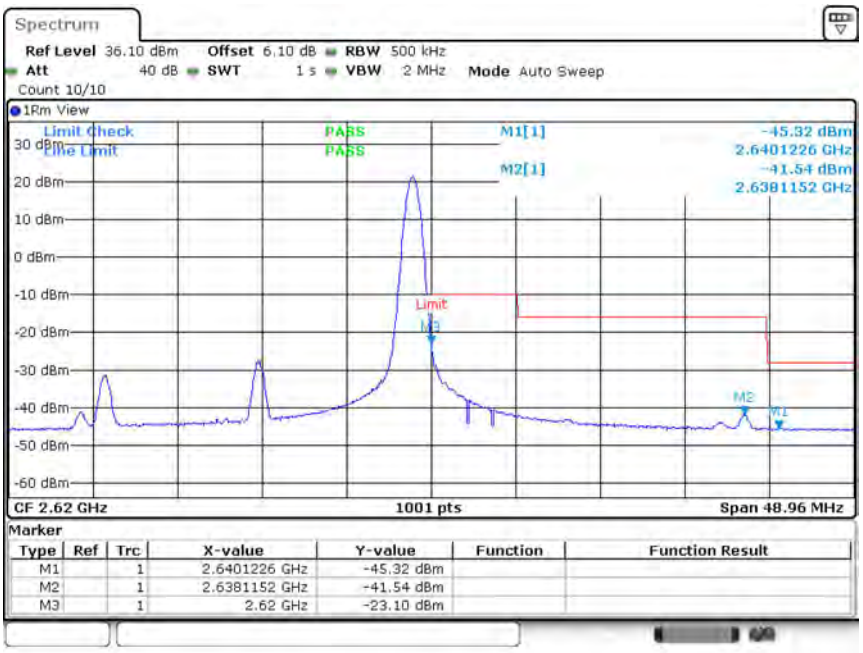
Band38-20MHz-QPSK-38150-1RB#99



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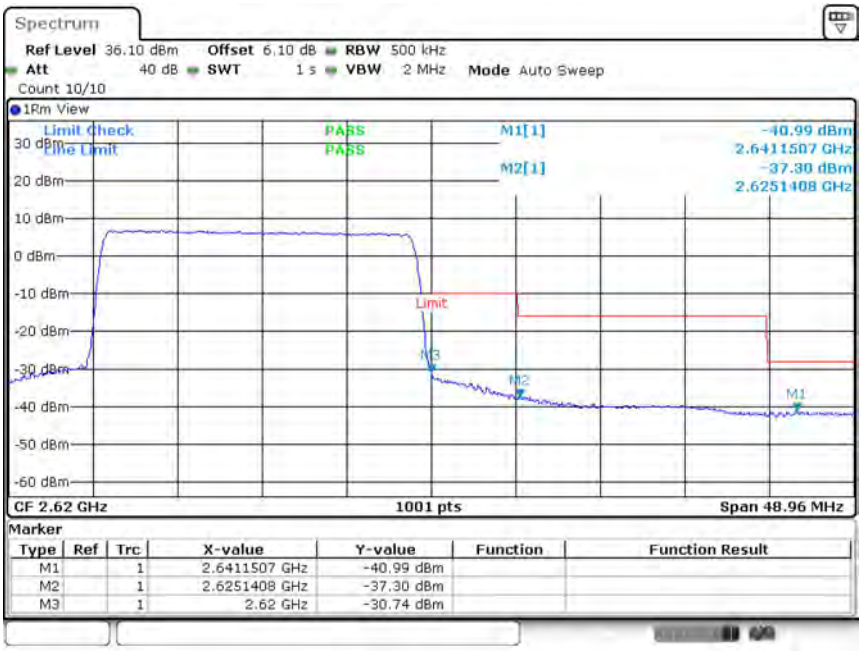
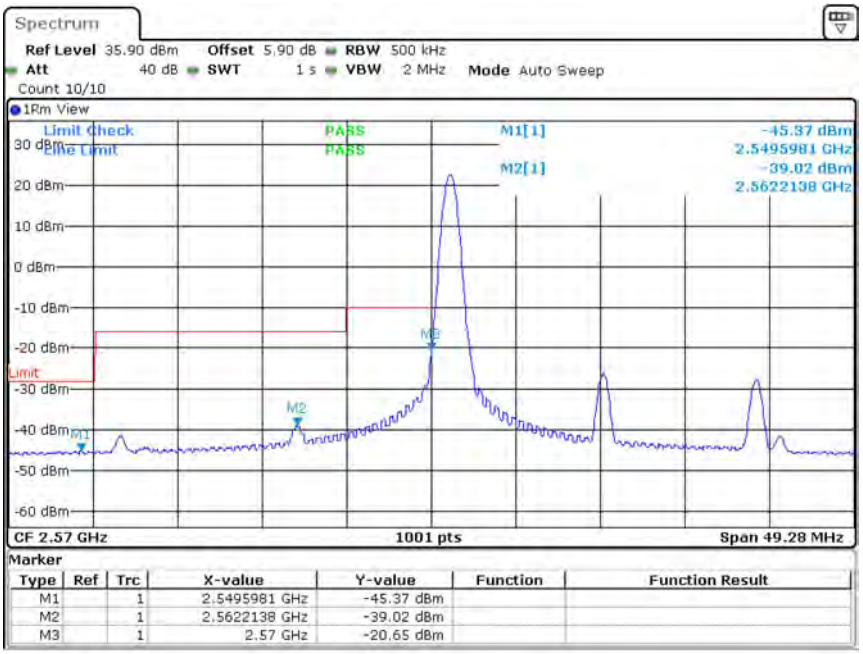
Band38-20MHz-QPSK-38150-100RB#0



Date: 13.AUG.2020 21:50:55

Band38-20MHz-64QAM-37850-1RB#0



Date: 28.AUG.2020 20:52:06

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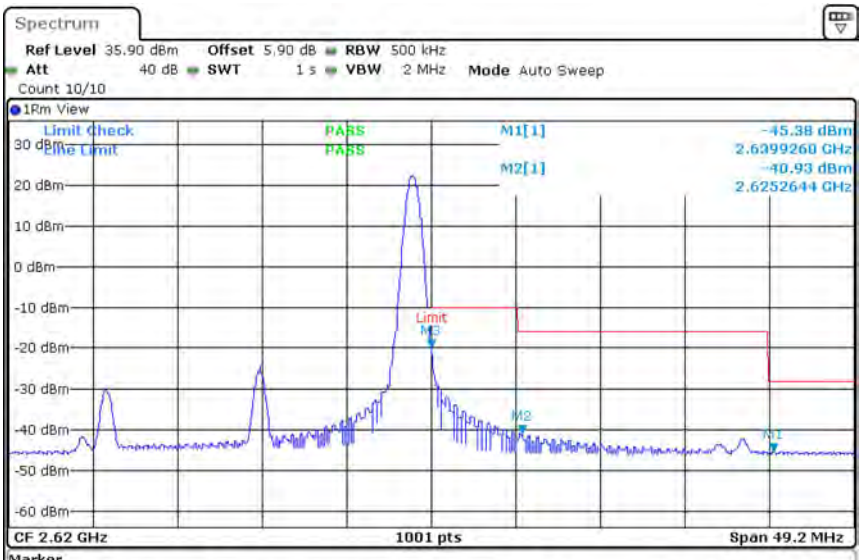
Band38-20MHz-64QAM-37850-100RB#0

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5500416 GHz	-40.42 dBm		
M2		1	2.5646285 GHz	-35.30 dBm		
M3		1	2.5697536 GHz	-31.35 dBm		

Date: 28.AUG.2020 20:52:59

Band38-20MHz-64QAM-38150-1RB#99



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.639926 GHz	-45.38 dBm		
M2		1	2.6252644 GHz	-40.93 dBm		
M3		1	2.62 GHz	-20.02 dBm		

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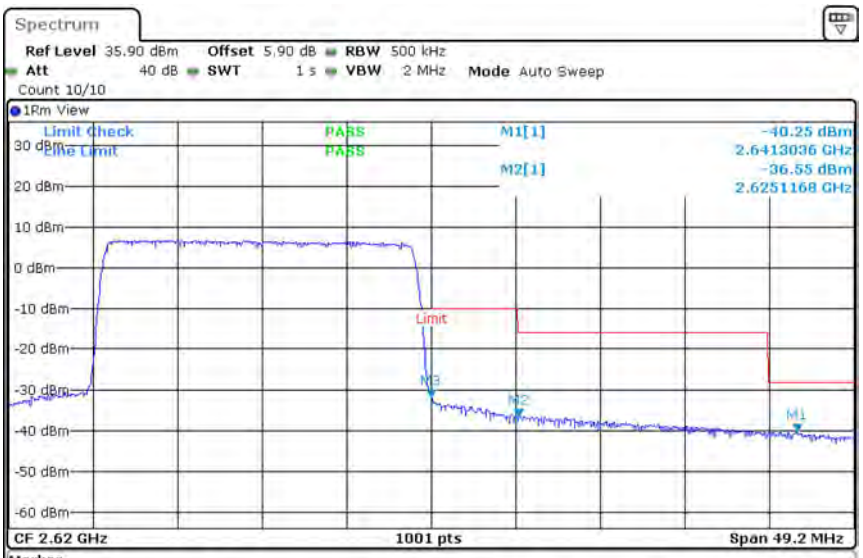
Band38-20MHz-64QAM-38150-100RB#0

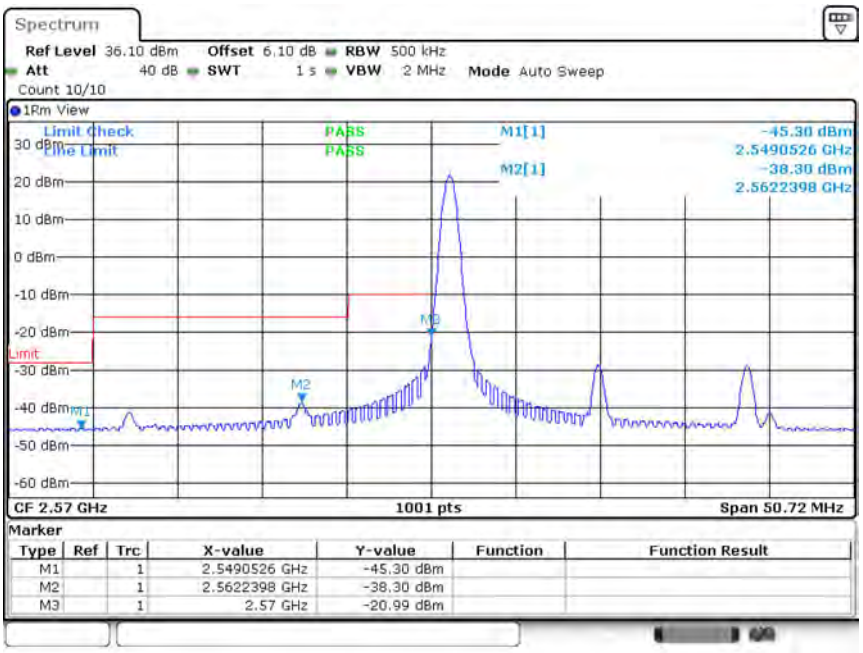


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.6413036 GHz	-40.25 dBm		
M2		1	2.6251168 GHz	-36.55 dBm		
M3		1	2.62 GHz	-31.74 dBm		

Date: 28.AUG.2020 20:53:21

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



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.5490526 GHz	-45.30 dBm		
M2		1	2.5622398 GHz	-38.30 dBm		
M3		1	2.57 GHz	-20.99 dBm		

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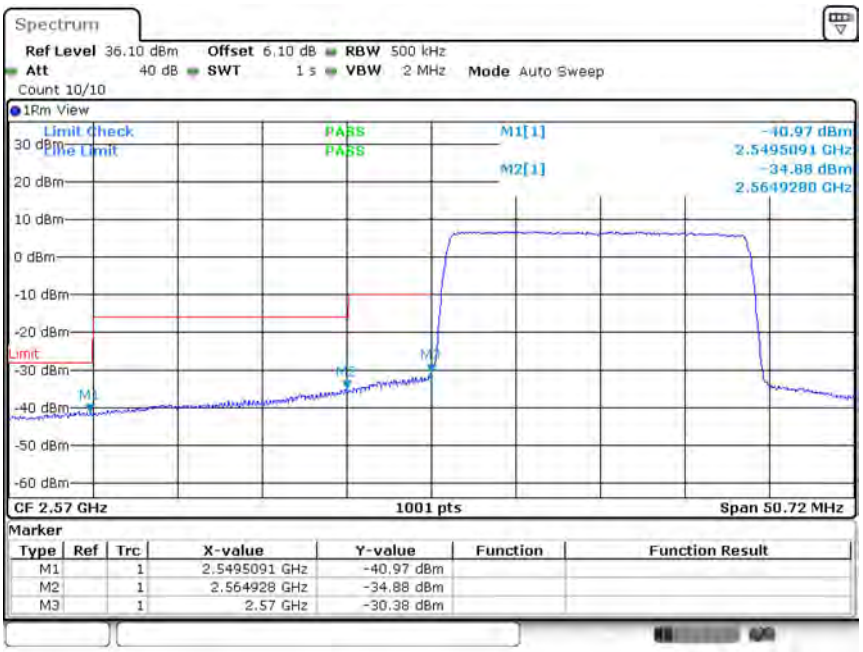
Band38-20MHz-16QAM-37850-100RB#0



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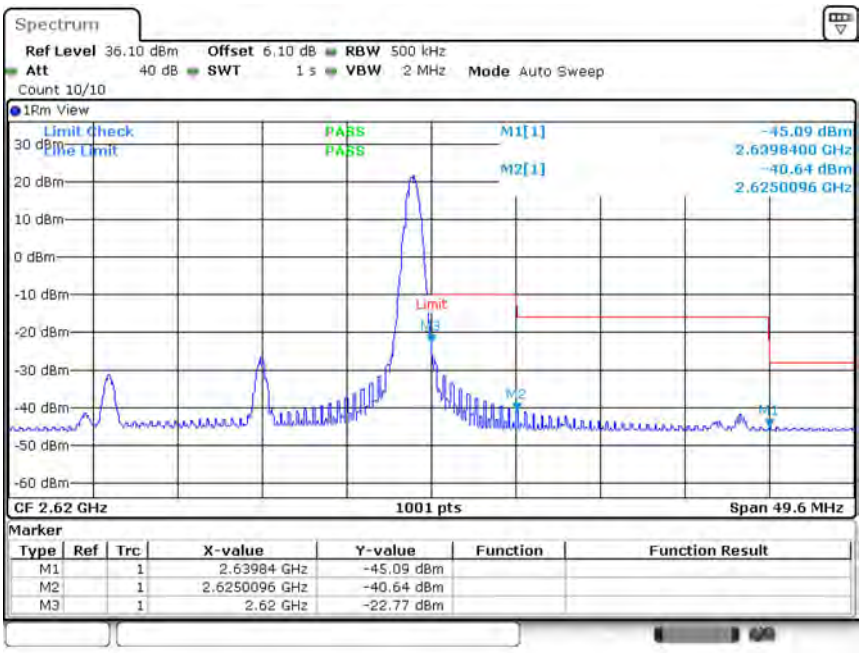
Band38-20MHz-16QAM-38150-1RB#99



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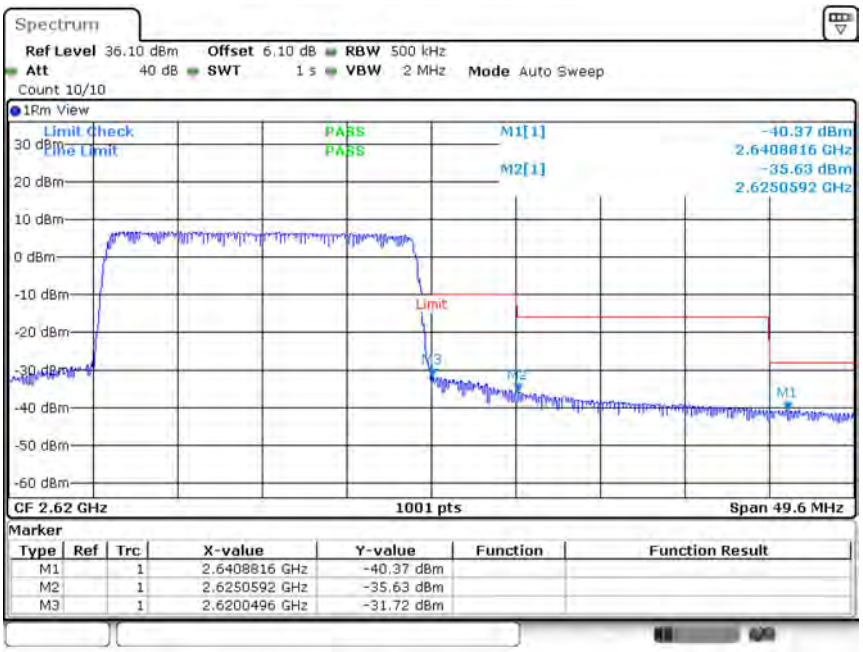
Band38-20MHz-16QAM-38150-100RB#0



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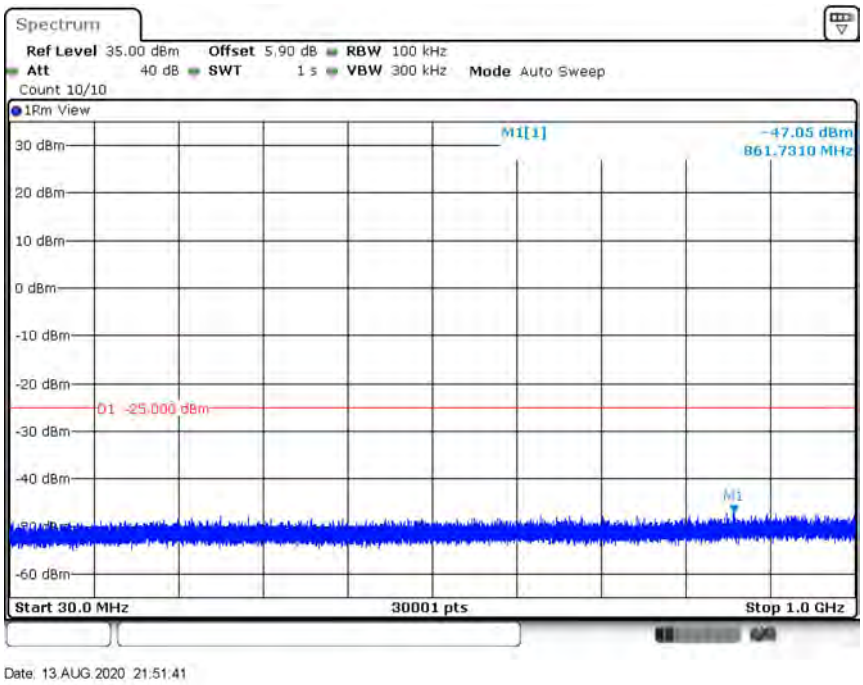
6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots

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



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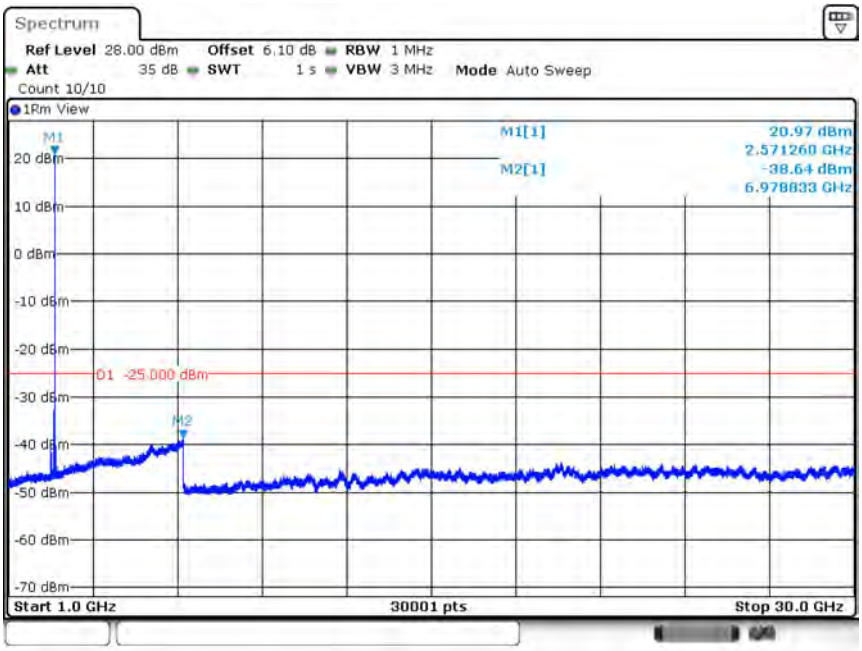
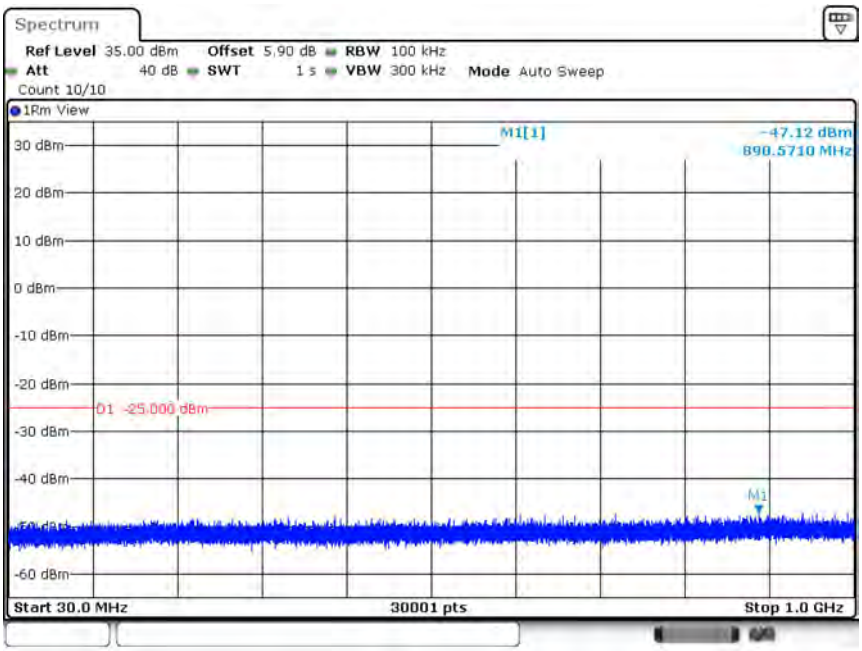
Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



Date: 13.AUG.2020 21:51:57

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



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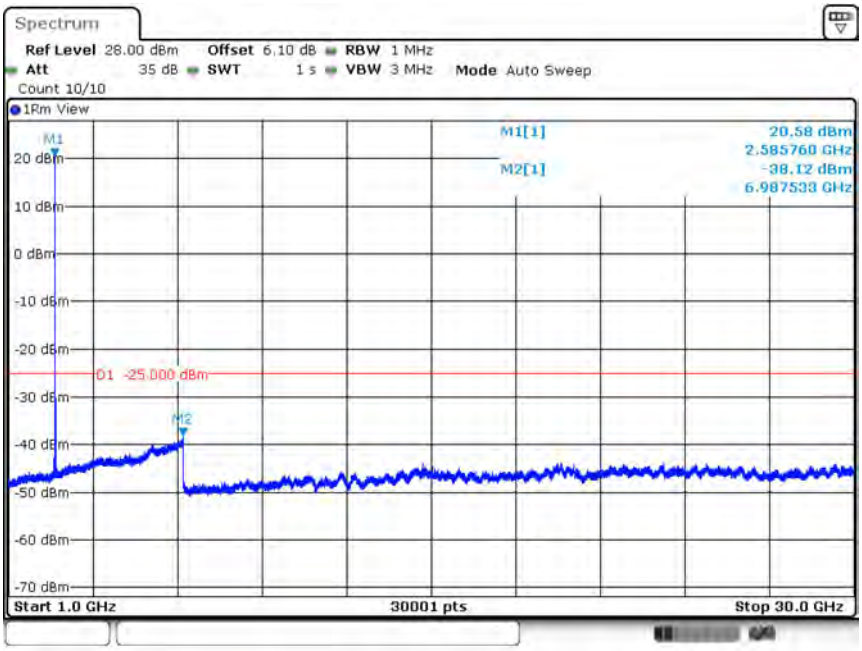
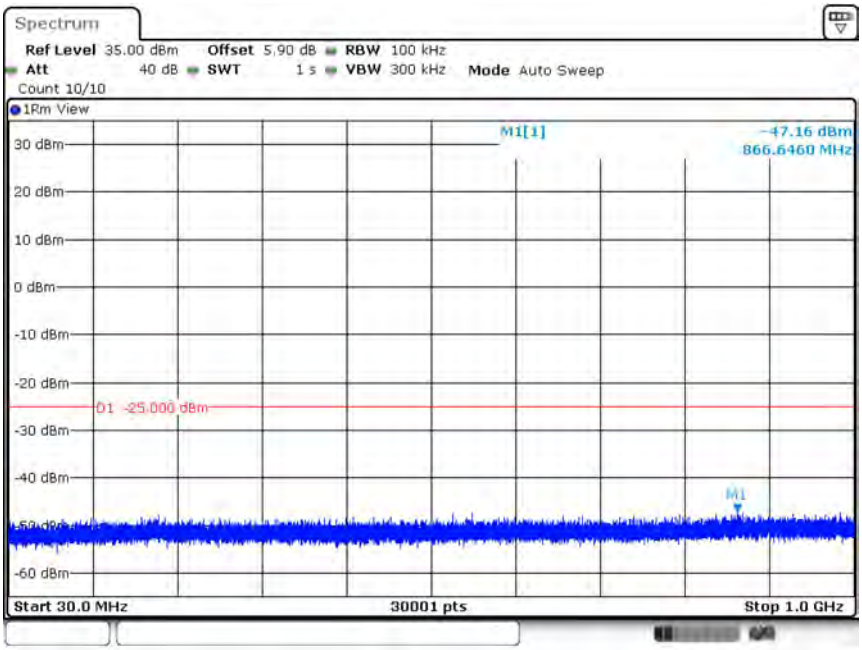
Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Date: 13.AUG.2020 21:53:09

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



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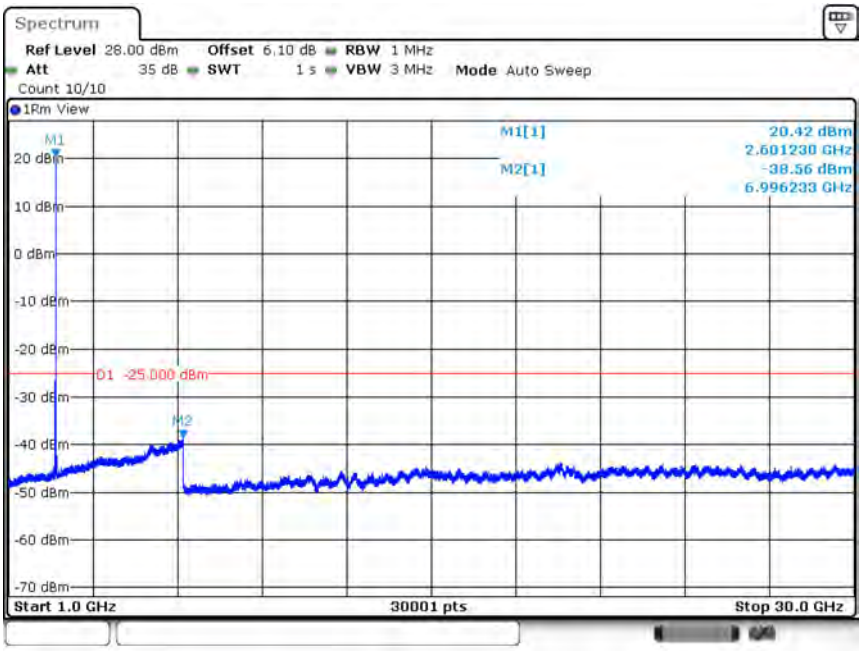
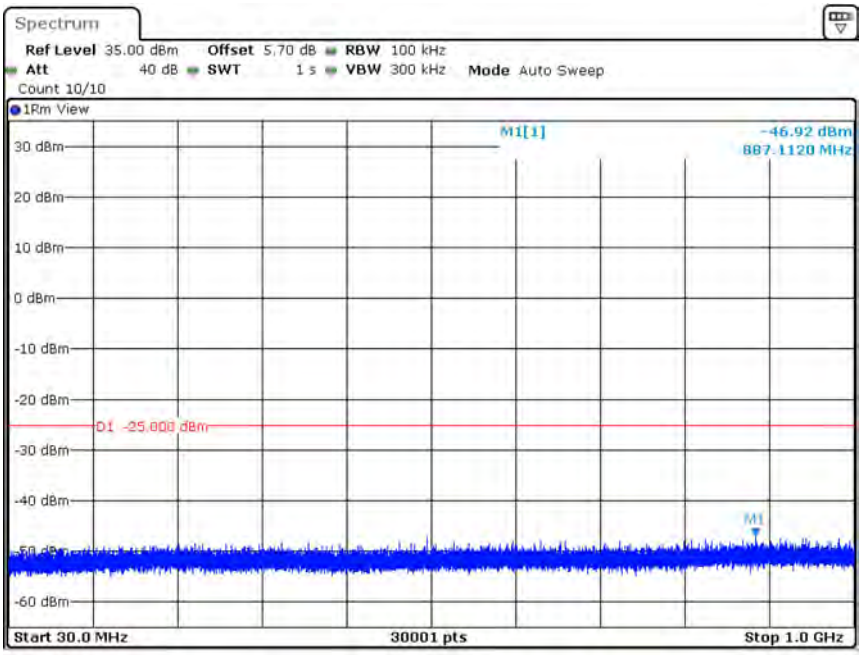


Date: 13.AUG.2020 21:54:20

Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz



Date: 28.AUG.2020 20:53:44

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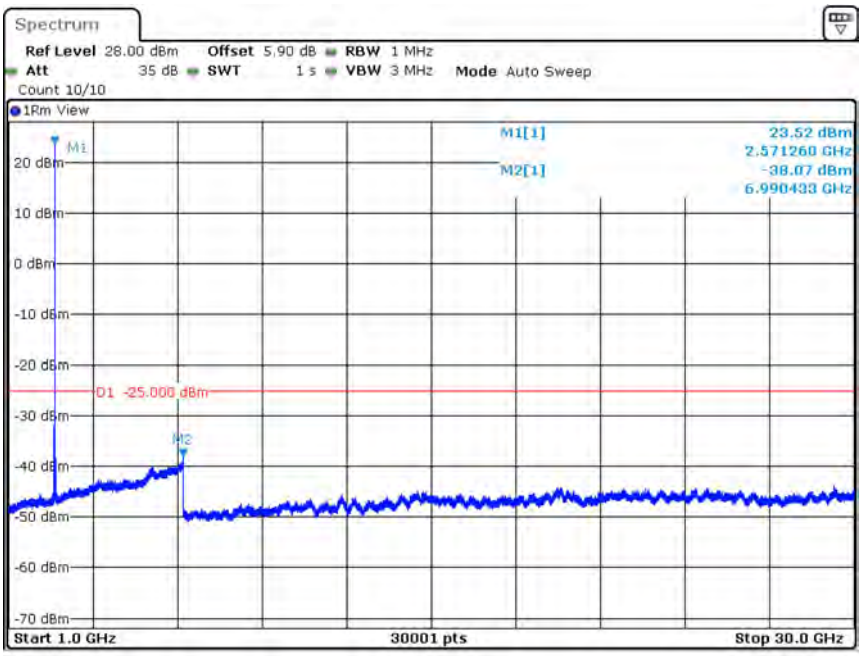
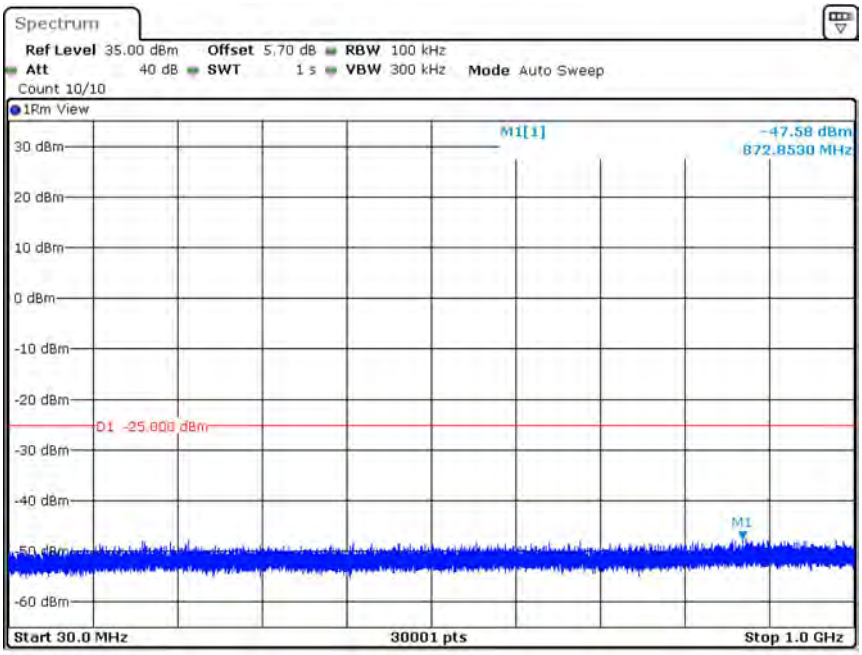
Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 28.AUG.2020 20:54:01

Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



Date: 28.AUG.2020 20:54:20

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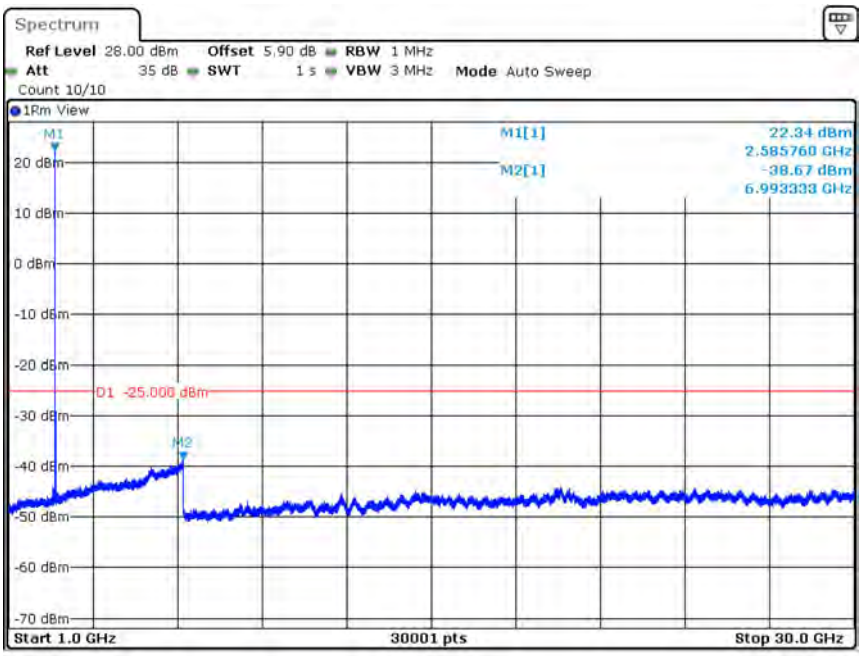
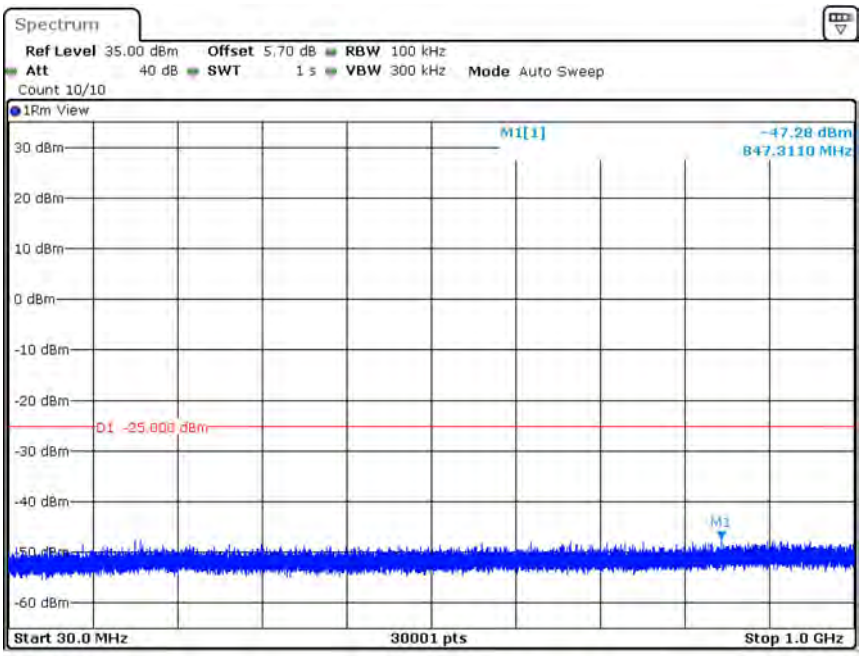
Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 28.AUG.2020 20:54:38

Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



Date: 28.AUG.2020 20:54:57

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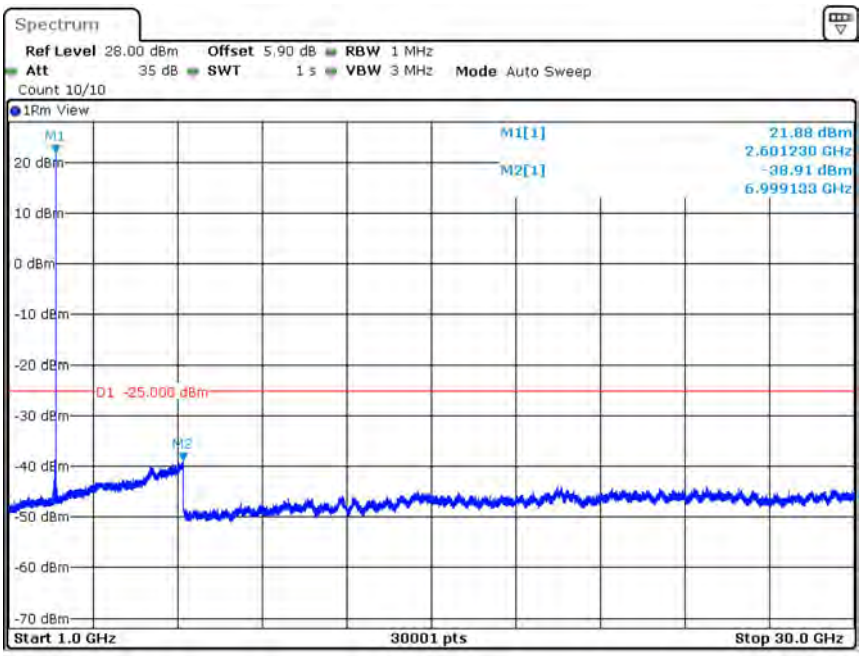
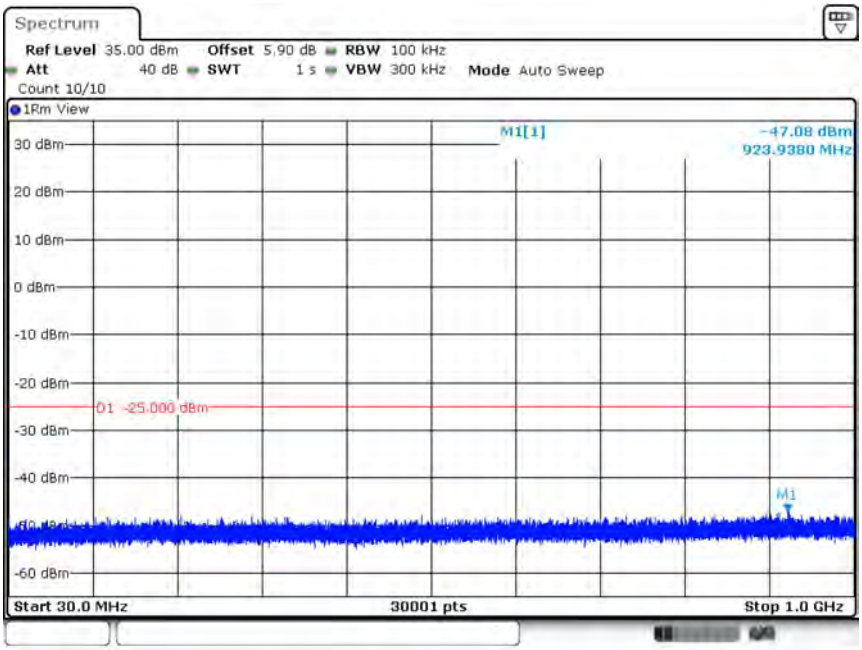


Date: 28.AUG.2020 20:55:14

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



Date: 13.AUG.2020 21:52:16

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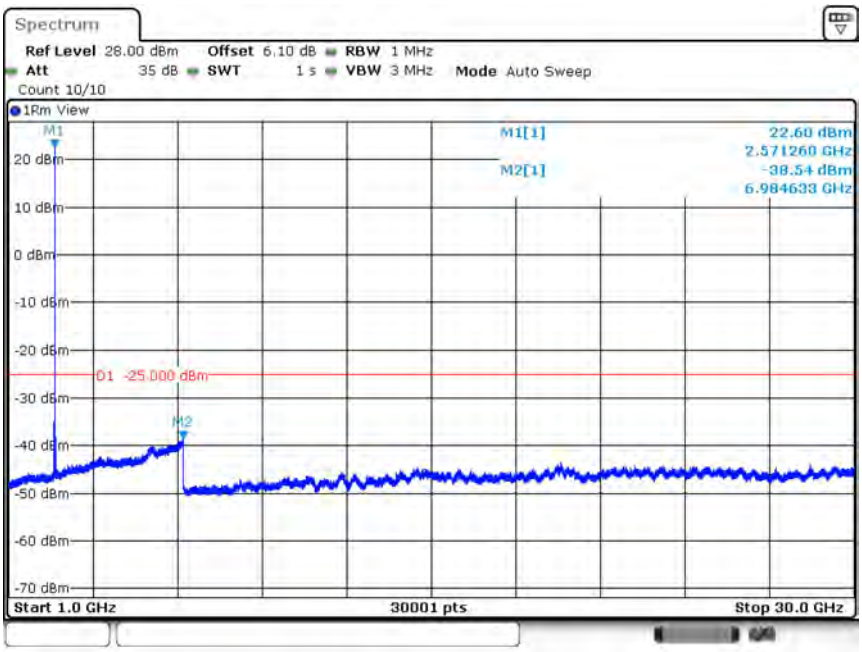

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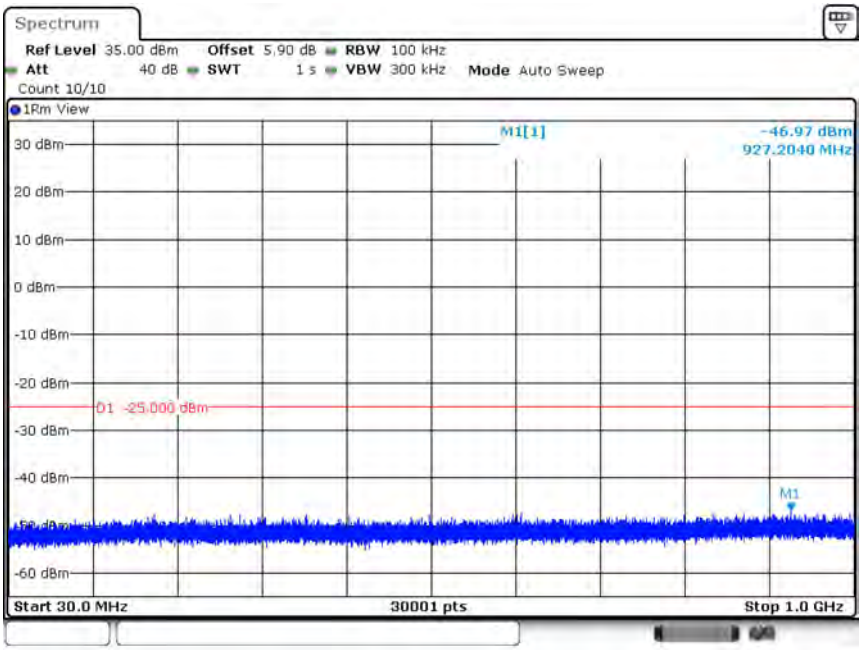
Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



Date: 13.AUG.2020 21:53:27

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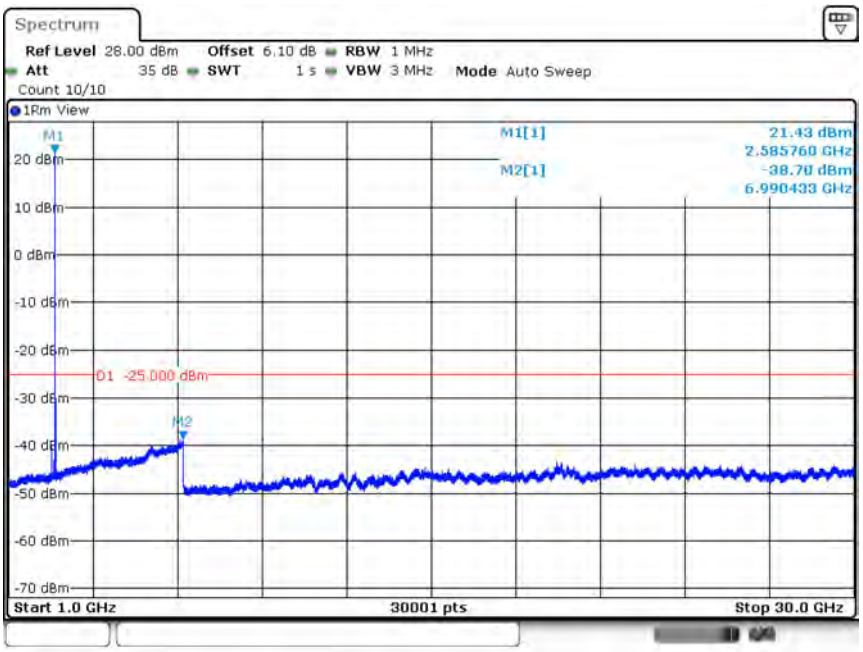
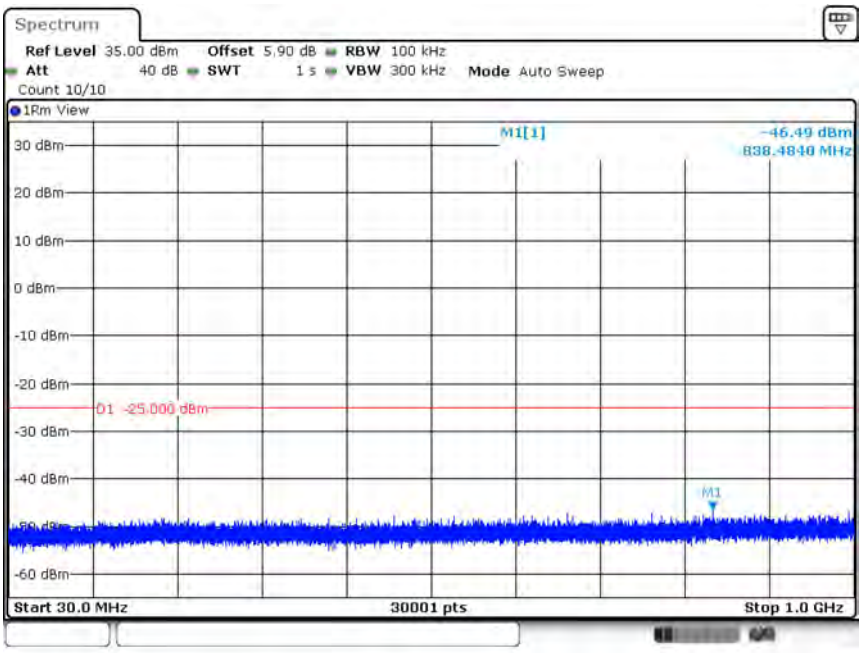
Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 13.AUG.2020 21:53:44

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



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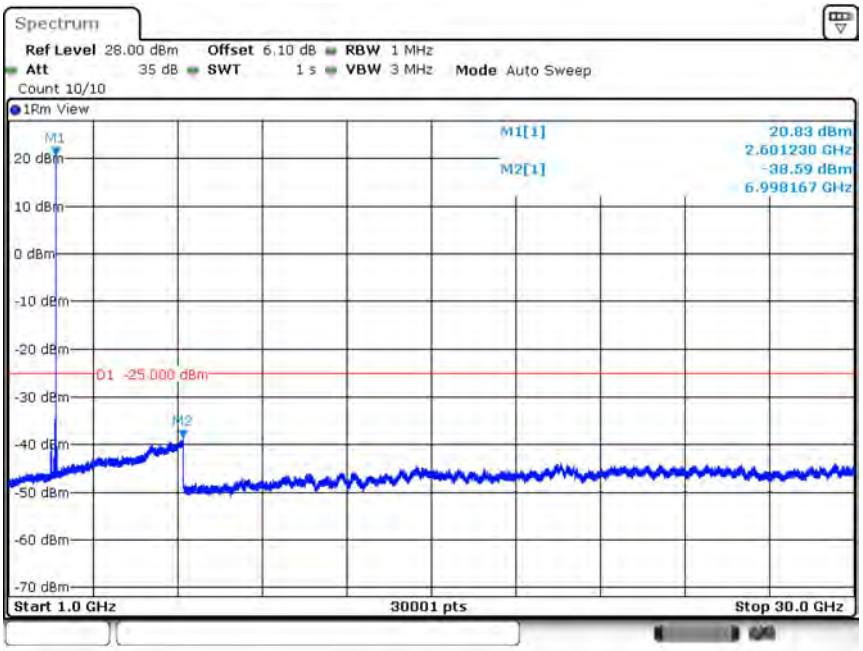

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.0800	-69.12	-25.00	44.12	Vertical
110.7565	-64.07	-25.00	39.07	Vertical
1708.5417	-44.31	-25.00	19.31	Vertical
5142.0714	-54.53	-25.00	29.53	Vertical
14491.3830	-47.26	-25.00	22.26	Vertical
17999.0000	-39.47	-25.00	14.47	Vertical
43.0957	-64.34	-25.00	39.34	Horizontal
238.2694	-68.10	-25.00	43.10	Horizontal
1610.9222	-44.82	-25.00	19.82	Horizontal
5142.0714	-57.33	-25.00	32.33	Horizontal
10590.7530	-51.35	-25.00	26.35	Horizontal
16390.4463	-43.07	-25.00	18.07	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4010	-70.07	-25.00	45.07	Vertical
115.3158	-64.79	-25.00	39.79	Vertical
384.2132	-67.46	-25.00	42.46	Vertical
5172.0724	-54.97	-25.00	29.97	Vertical
10689.7563	-50.97	-25.00	25.97	Vertical
17999.0000	-39.83	-25.00	14.83	Vertical
40.8645	-63.35	-25.00	38.35	Horizontal
229.7330	-67.89	-25.00	42.89	Horizontal
605.7238	-64.02	-25.00	39.02	Horizontal
5172.0724	-57.64	-25.00	32.64	Horizontal
10035.2345	-52.55	-25.00	27.55	Horizontal
16378.4459	-42.91	-25.00	17.91	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.6435	-69.90	-25.00	44.90	Vertical
111.9691	-64.92	-25.00	39.92	Vertical
596.5568	-63.40	-25.00	38.40	Vertical
5202.5734	-54.87	-25.00	29.87	Vertical
10671.7557	-51.08	-25.00	26.08	Vertical
17997.4999	-39.99	-25.00	14.99	Vertical
45.0358	-63.86	-25.00	38.86	Horizontal
242.2951	-67.84	-25.00	42.84	Horizontal
471.8086	-66.72	-25.00	41.72	Horizontal
5202.0734	-57.63	-25.00	32.63	Horizontal
10612.7538	-51.55	-25.00	26.55	Horizontal
16393.4464	-42.97	-25.00	17.97	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
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-5.70	-0.002209	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-4.40	-0.001696	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-3.40	-0.001310	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-5.90	-0.002261	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-5.20	-0.001992	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-3.60	-0.001395	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-1.50	-0.000578	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-3.70	-0.001426	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-7.10	-0.002720	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-5.00	-0.001938	±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	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-5.10	-0.001965	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-6.00	-0.002312	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-6.10	-0.002337	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-3.90	-0.001512	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-6.60	-0.002558	±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	0	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-3.30	-0.001279	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-7.40	-0.002868	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-6.30	-0.002442	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-2.80	-0.001079	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-6.00	-0.002312	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-7.80	-0.003006	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-5.40	-0.002081	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.10	-0.002337	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-5.90	-0.002261	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-4.10	-0.001571	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-7.10	-0.002720	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-6.60	-0.002529	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-5.30	-0.002054	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-4.60	-0.001783	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-10	-4.50	-0.001744	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-6.50	-0.002519	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-6.10	-0.002364	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-5.30	-0.002054	±2.5	PASS

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Band38	20MHz	64QAM	37850	100RB#0	NV	40	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-6.10	-0.002351	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-4.90	-0.001888	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-10	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-3.60	-0.001387	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-6.60	-0.002543	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-7.60	-0.002929	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	40	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-4.40	-0.001696	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-10	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-3.00	-0.001149	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-9.80	-0.003755	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-8.40	-0.003218	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-8.40	-0.003256	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-4.60	-0.001783	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-7.20	-0.002791	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-1.40	-0.000543	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-6.10	-0.002351	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-7.80	-0.003006	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-0.40	-0.000154	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-8.50	-0.003276	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-5.60	-0.002158	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-4.10	-0.001580	±2.5	PASS

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Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-9.00	-0.003448	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-5.60	-0.002146	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-5.70	-0.002184	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-3.60	-0.001379	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-7.30	-0.002797	±2.5	PASS

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