



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	22.57	21.56	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.54	21.53	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.11	22.1	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.80	20.79	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.72	20.71	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.58	20.57	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.79	20.78	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.66	21.65	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.85	21.84	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.11	22.1	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.62	20.61	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.60	20.59	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.66	20.65	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.90	20.89	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.93	21.92	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.57	21.56	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.09	22.08	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.61	20.6	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.60	20.59	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.88	20.87	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.76	20.75	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.18	20.17	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.05	20.04	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.49	20.48	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#0	20.16	19.15	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#6	19.89	18.88	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#13	20.07	19.06	33.00	PASS



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Band38	5MHz	64QAM	37775	25RB#0	19.96	18.95	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.18	20.17	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.12	20.11	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.63	20.62	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#13	20.00	18.99	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#6	19.98	18.97	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#0	20.09	19.08	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.27	19.26	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.35	20.34	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.09	20.08	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.49	20.48	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#0	19.99	18.98	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#6	19.91	18.9	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#13	20.03	19.02	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.16	19.15	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.92	20.91	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.85	20.84	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.07	21.06	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.89	19.88	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.59	19.58	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.73	19.72	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.56	19.55	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.92	20.91	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.87	20.86	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.36	21.35	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.65	19.64	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.75	19.74	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.84	19.83	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.87	19.86	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.03	21.02	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.62	20.61	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.06	21.05	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.64	19.63	33.00	PASS



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Band38	5MHz	16QAM	38225	12RB#6	20.76	19.75	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.64	19.63	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.87	19.86	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.65	21.64	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.56	21.55	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.18	22.17	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.83	20.82	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.80	20.79	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.58	20.57	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.87	20.86	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.75	21.74	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.85	21.84	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.17	22.16	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.67	20.66	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.64	20.63	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.79	20.78	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.93	20.92	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.02	22.01	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.58	21.57	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.12	22.11	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.67	20.66	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.71	20.7	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.90	20.89	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.85	20.84	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.03	20.02	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.96	19.95	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.18	20.17	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#0	20.00	18.99	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	19.70	18.69	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	19.84	18.83	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.67	18.66	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.03	20.02	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.98	19.97	33.00	PASS



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Band38	10MHz	64QAM	38000	1RB#24	21.47	20.46	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	19.76	18.75	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	19.86	18.85	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	19.95	18.94	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.98	18.97	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.14	20.13	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.73	19.72	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.17	20.16	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.75	18.74	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	19.87	18.86	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	19.75	18.74	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.98	18.97	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.94	20.93	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.86	20.85	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.15	21.14	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.90	19.89	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.51	19.5	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.87	19.86	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.67	19.66	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.92	20.91	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.90	20.89	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.41	21.4	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.69	19.68	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.79	19.78	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.84	19.83	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.97	19.96	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.15	21.14	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.75	20.74	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.20	21.19	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.75	19.74	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.78	19.77	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.78	19.77	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.89	19.88	33.00	PASS



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Band38	15MHz	QPSK	37825	1RB#74	22.78	21.77	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.60	21.59	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.19	22.18	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.96	20.95	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.82	20.81	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.67	20.66	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.91	20.9	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.87	21.86	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.92	21.91	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.19	22.18	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.79	20.78	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.71	20.7	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.91	20.9	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.94	20.93	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.07	22.06	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.64	21.63	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.17	22.16	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.80	20.79	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.82	20.81	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.98	20.97	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.99	20.98	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.05	20.04	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.97	19.96	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.26	20.25	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#0	20.01	19	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#18	19.62	18.61	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#39	19.98	18.97	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	19.78	18.77	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.03	20.02	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.01	20	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.52	20.51	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#39	19.80	18.79	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#0	19.90	18.89	33.00	PASS



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Band38	15MHz	64QAM	38000	36RB#18	19.95	18.94	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.08	19.07	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.26	20.25	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.86	19.85	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.31	20.3	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#18	19.86	18.85	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#0	19.89	18.88	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.89	18.88	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.00	18.99	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.95	20.94	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.92	20.91	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.24	21.23	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	21.04	20.03	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.64	19.63	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.90	19.89	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.74	19.73	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.05	21.04	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.97	20.96	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.50	21.49	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.81	19.8	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.84	19.83	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	20.91	19.9	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.06	20.05	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.18	21.17	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.86	20.85	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.27	21.26	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.75	19.74	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.80	19.79	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	20.81	19.8	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.94	19.93	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.86	21.85	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.67	21.66	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.27	22.26	33.00	PASS



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Band38	20MHz	QPSK	37850	50RB#25	21.97	20.96	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.94	20.93	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.67	20.66	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.92	20.91	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.99	21.98	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.97	21.96	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.33	22.32	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.86	20.85	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.79	20.78	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.01	21	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.99	20.98	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.10	22.09	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.78	21.77	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.20	22.19	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.88	20.87	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.83	20.82	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.98	20.97	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.99	20.98	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.06	20.05	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.03	20.02	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.35	20.34	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	20.15	19.14	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#0	19.75	18.74	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	20.01	19	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	19.85	18.84	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.16	20.15	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.08	20.07	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.61	20.6	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	19.92	18.91	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.95	18.94	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	20.02	19.01	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.17	19.16	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.29	20.28	33.00	PASS



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Band38	20MHz	64QAM	38150	1RB#0	20.97	19.96	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.38	20.37	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	19.86	18.85	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	19.91	18.9	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	19.92	18.91	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.05	19.04	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.07	21.06	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.94	20.93	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.38	21.37	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.05	20.04	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.78	19.77	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.96	19.95	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.85	19.84	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.07	21.06	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.01	21	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.52	21.51	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.89	19.88	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.87	19.86	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.98	19.97	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.16	20.15	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.24	21.23	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.98	20.97	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.38	21.37	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.88	19.87	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.80	19.79	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.92	19.91	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.05	20.04	33.00	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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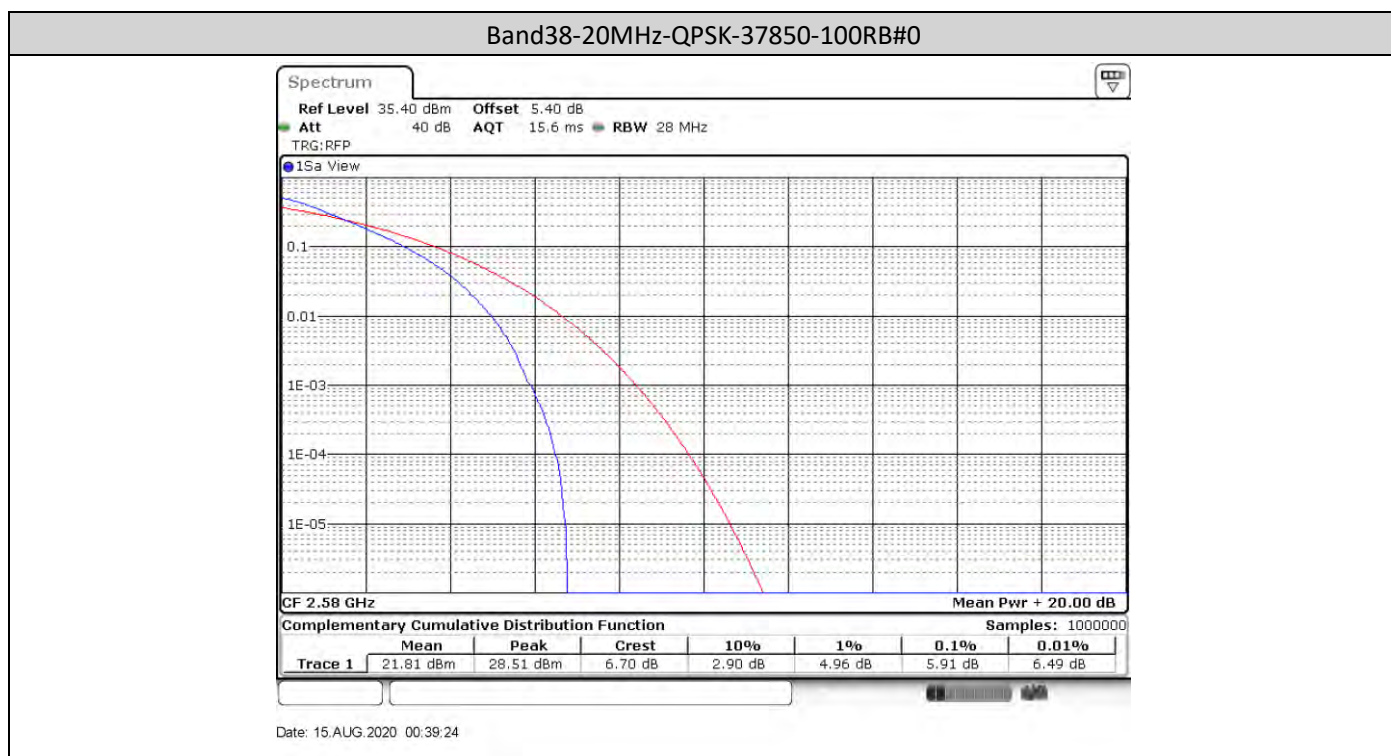


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	5.91	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.61	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.43	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.46	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.88	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.71	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.54	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.36	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.13	13	PASS

2.2. Test Plots

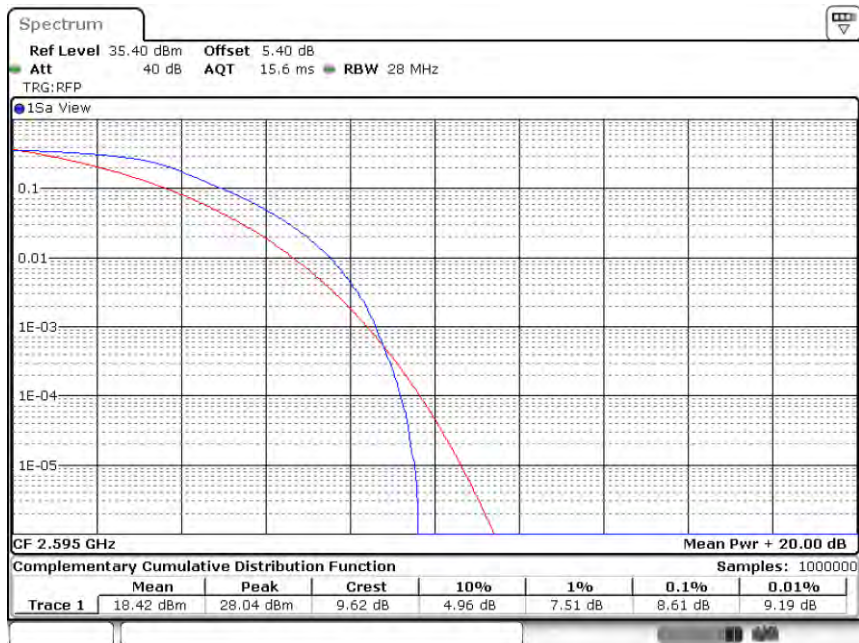


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Band38-20MHz-QPSK-38000-100RB#0



Date: 15.AUG.2020 00:39:47

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



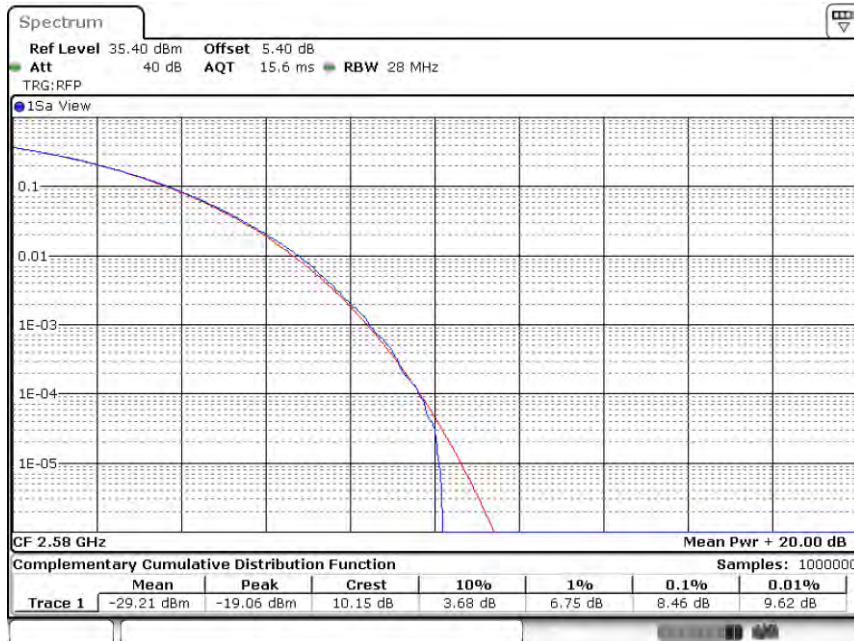
Date: 15.AUG.2020 00:40:10



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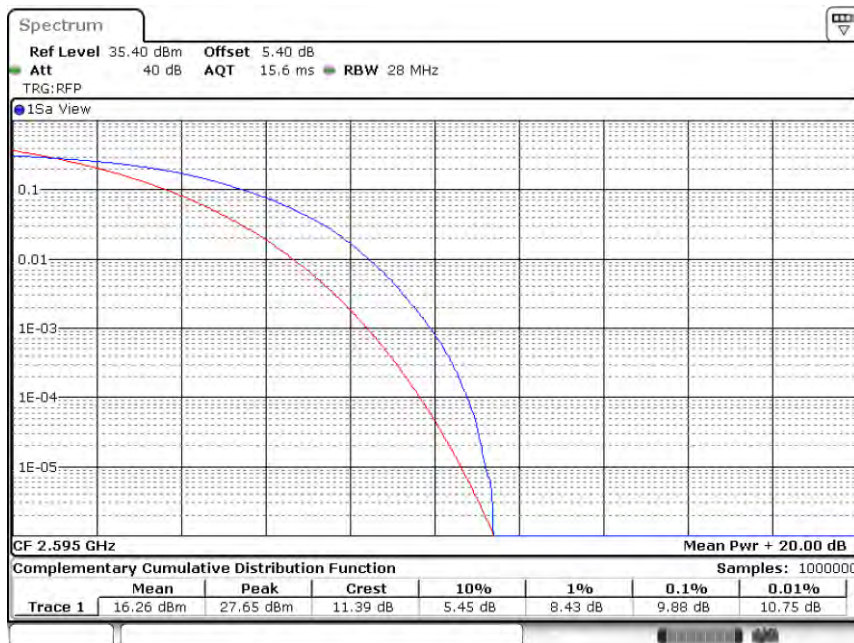
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Band38-20MHz-64QAM-37850-100RB#0



Date: 15.AUG.2020 02:47:35

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

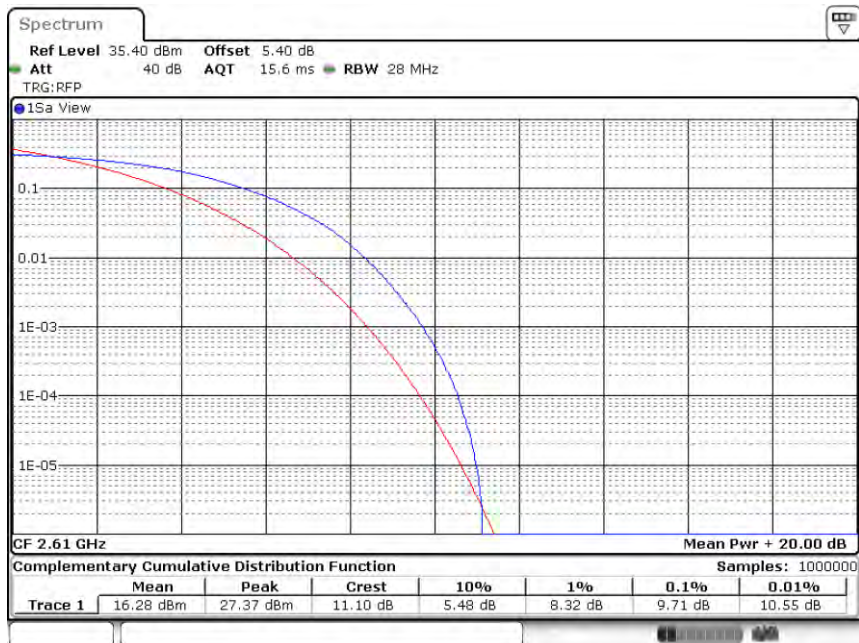


Date: 15.AUG.2020 02:47:47



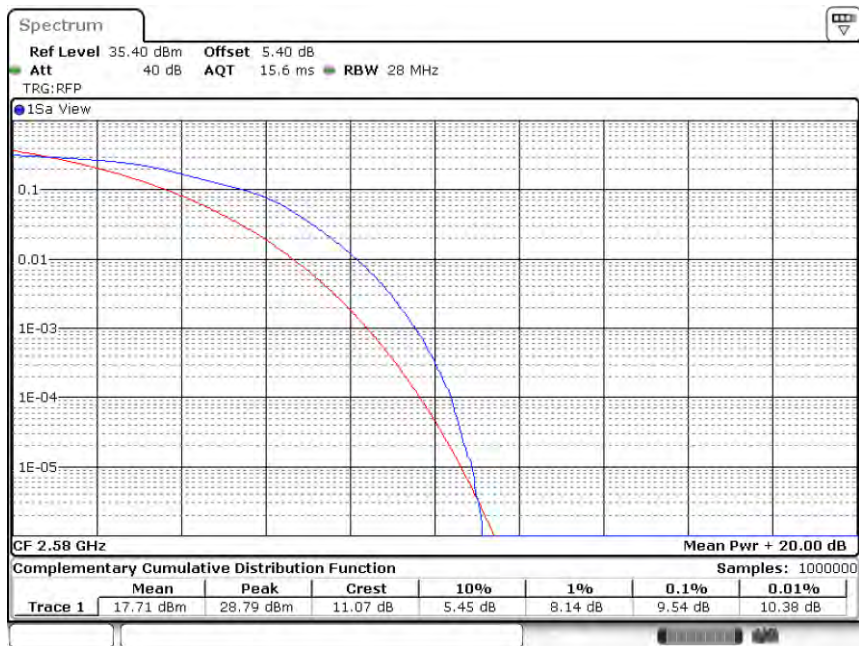


Band38-20MHz-64QAM-38150-100RB#0



Date: 15.AUG.2020 02:47:58

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



Date: 15.AUG.2020 00:39:36



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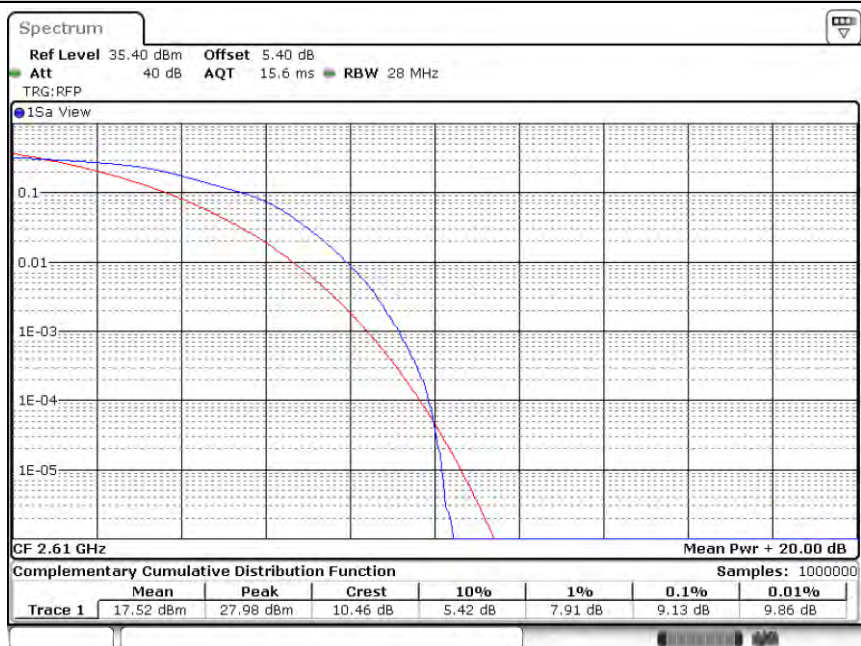
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Band38-20MHz-16QAM-38000-100RB#0



Date: 15.AUG.2020 00:39:59

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



Date: 15.AUG.2020 00:40:22



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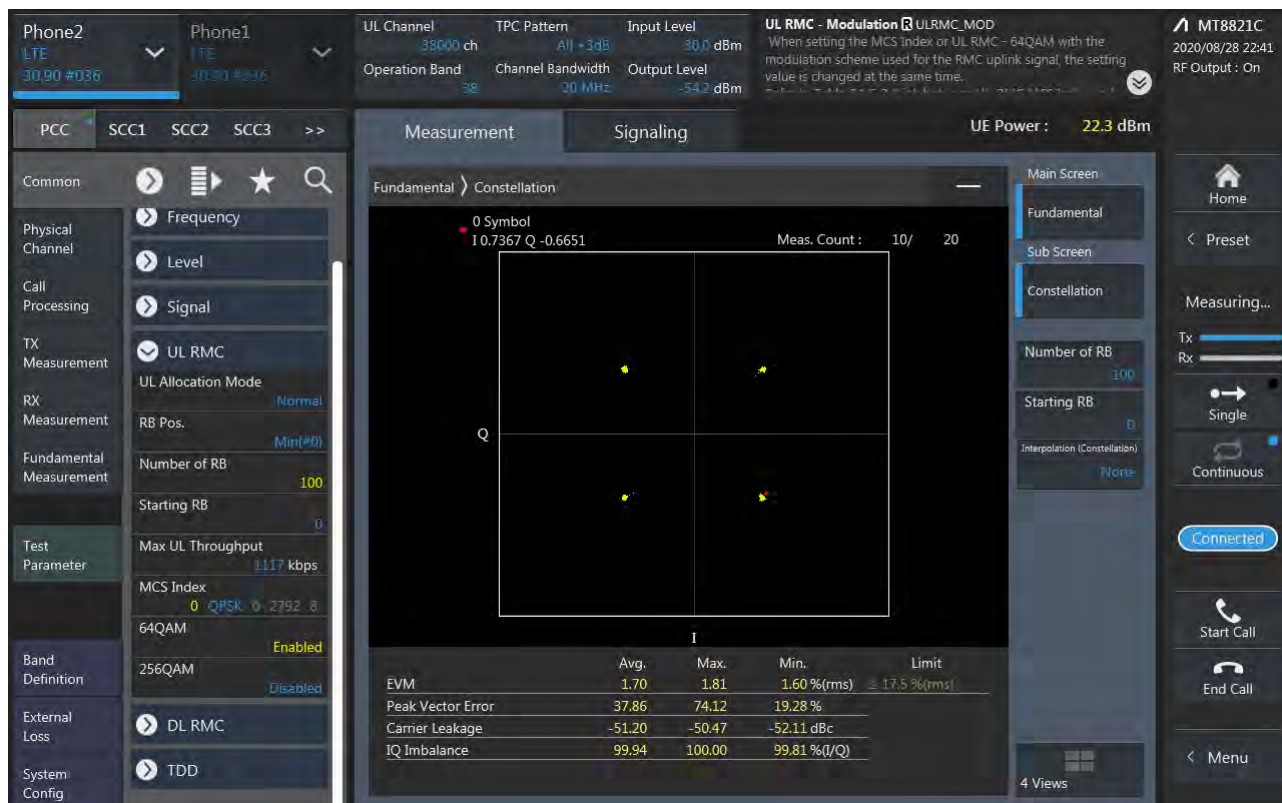
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

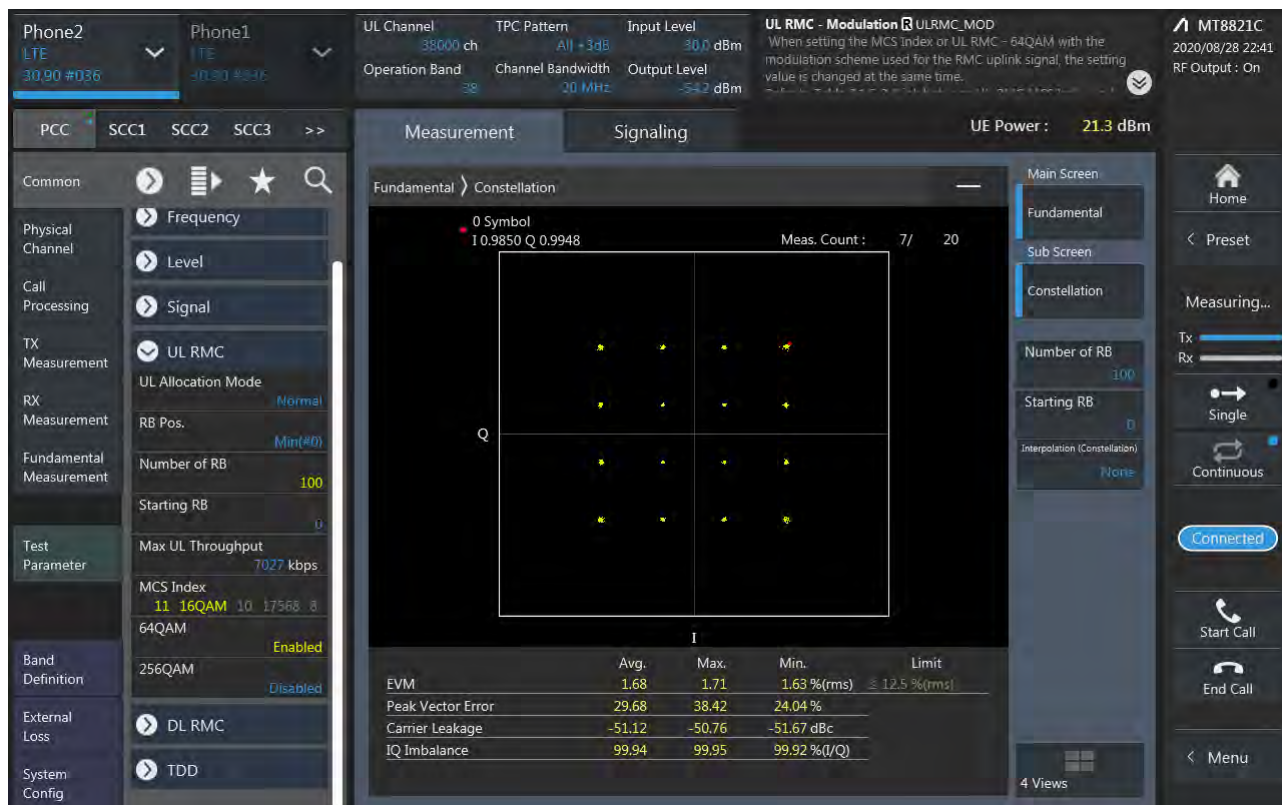
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

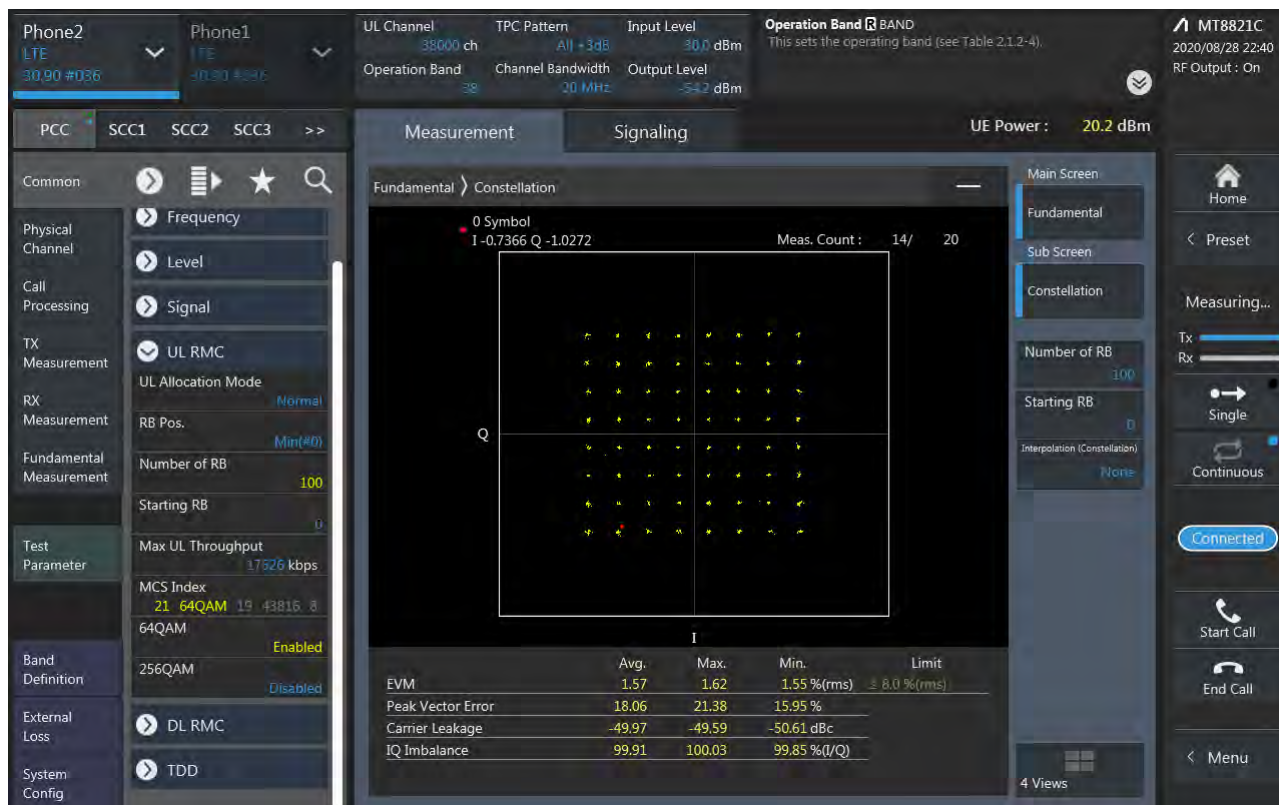
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH





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	4.980	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.990	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	5.010	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.486	5.150	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.486	5.100	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.486	5.100	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.950	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.940	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.960	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.740	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.740	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.760	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.800	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.800	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.800	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.640	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.660	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.640	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.516	16.260	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.516	16.050	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	16.410	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	14.910	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	14.850	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.457	14.970	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.487	15.240	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.487	15.060	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.060	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.942	19.720	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.942	19.600	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.942	19.920	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.902	19.520	PASS



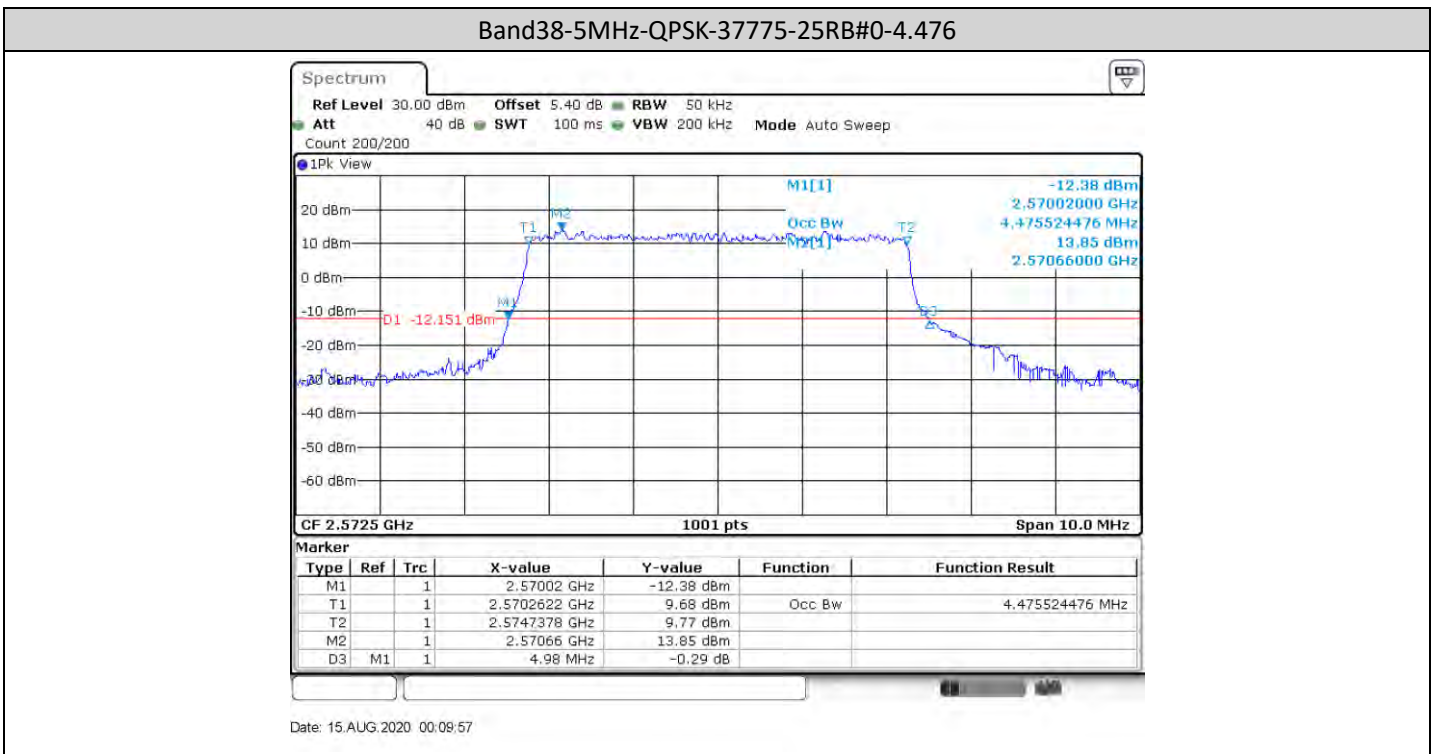
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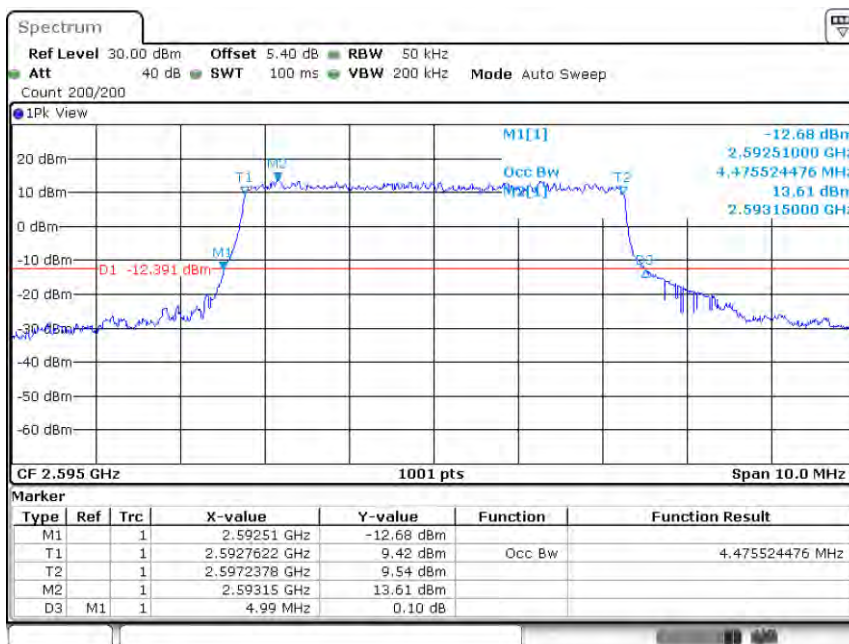
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Band38	20MHz	64QAM	38150	100RB#0	17.902	19.600	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.280	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.942	20.000	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.902	20.120	PASS

4.2. Test Plots



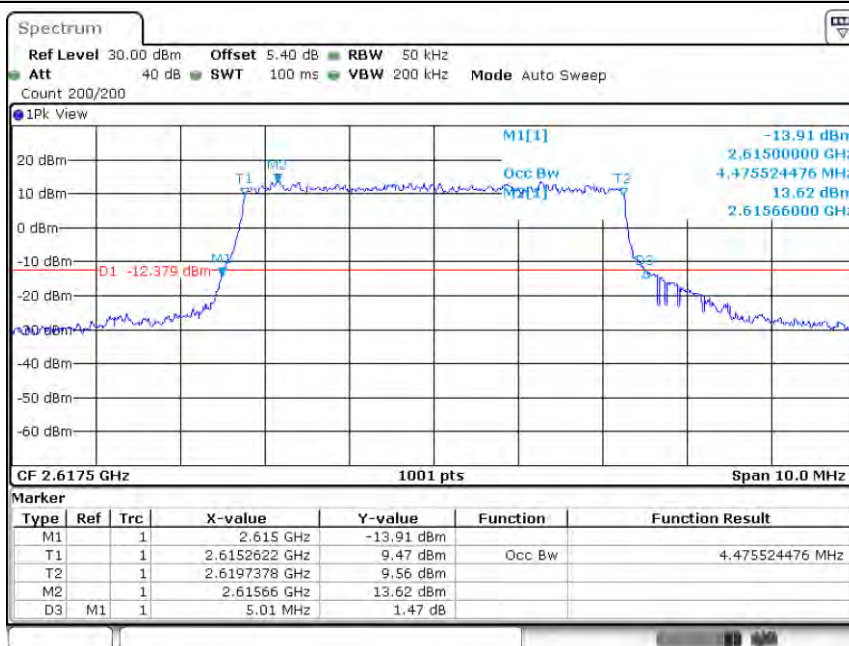


Band38-5MHz-QPSK-38000-25RB#0-4.476



Date: 15.AUG.2020 00:11:03

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



Date: 15.AUG.2020 00:12:09

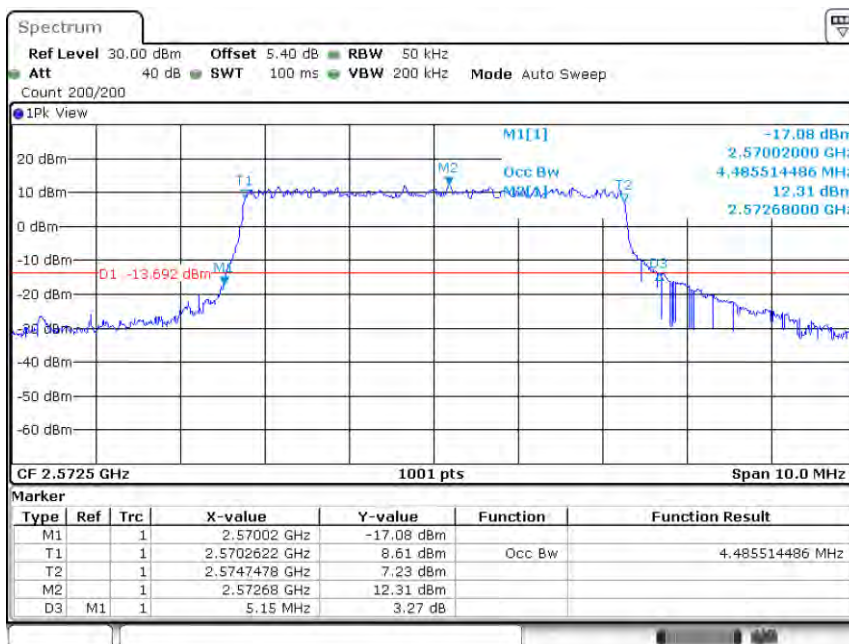


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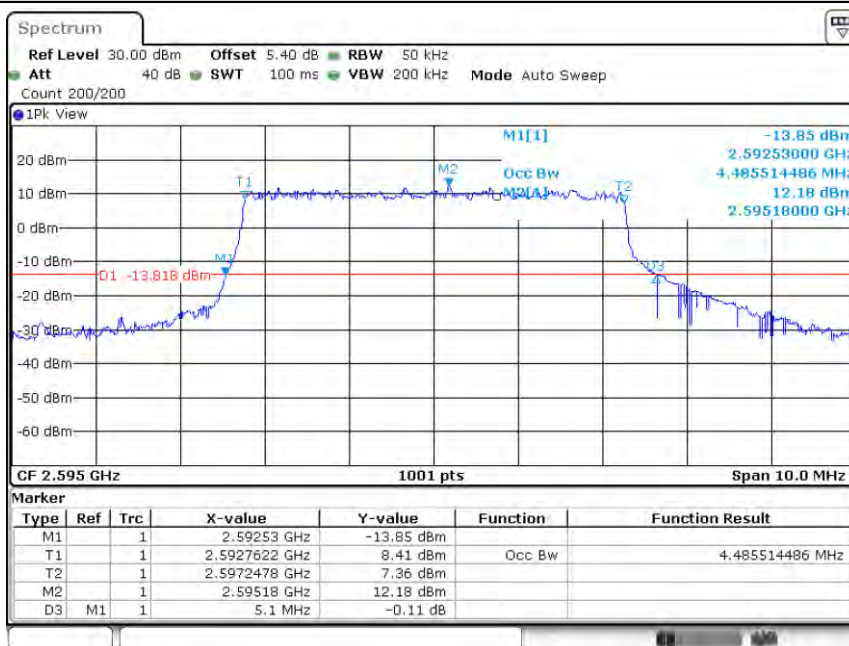


Band38-5MHz-64QAM-37775-25RB#0-4.486



Date: 15.AUG.2020 02:32:00

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



Date: 15.AUG.2020 02:32:34

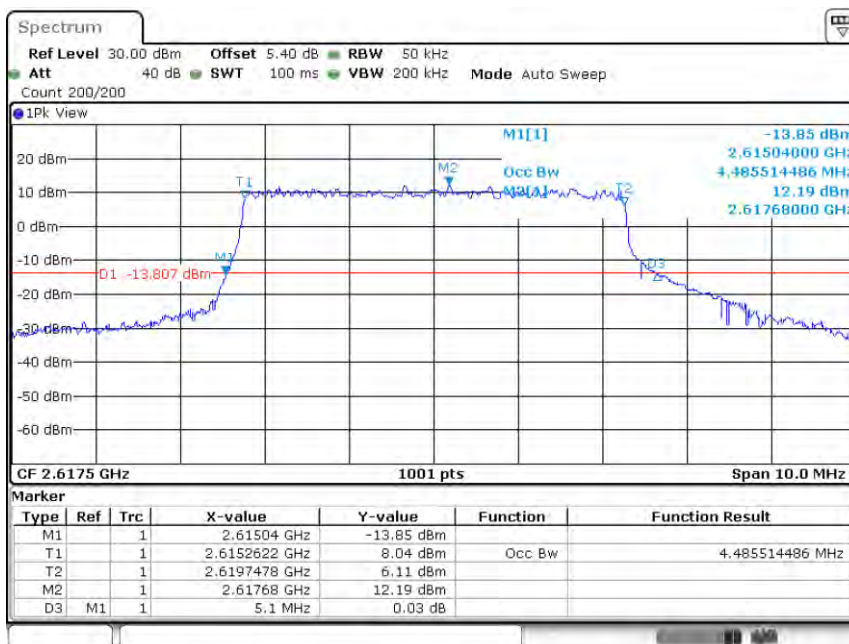


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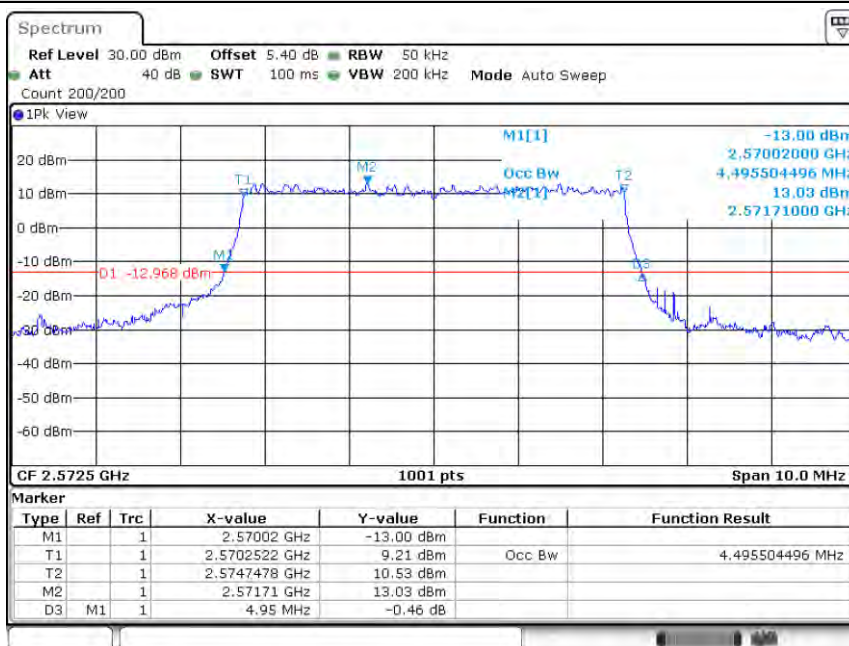


Band38-5MHz-64QAM-38225-25RB#0-4.486



Date: 15.AUG.2020 02:33:07

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



Date: 15.AUG.2020 00:10:30

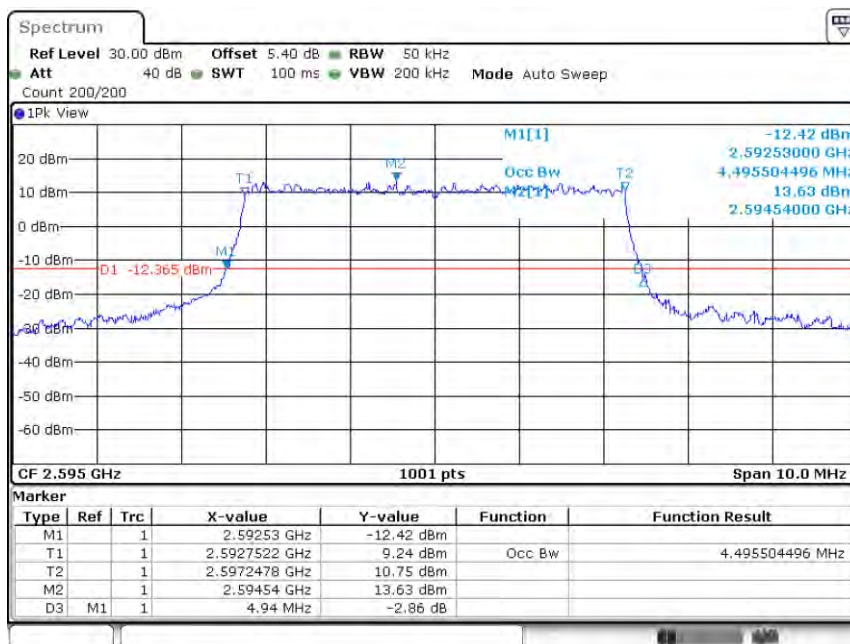


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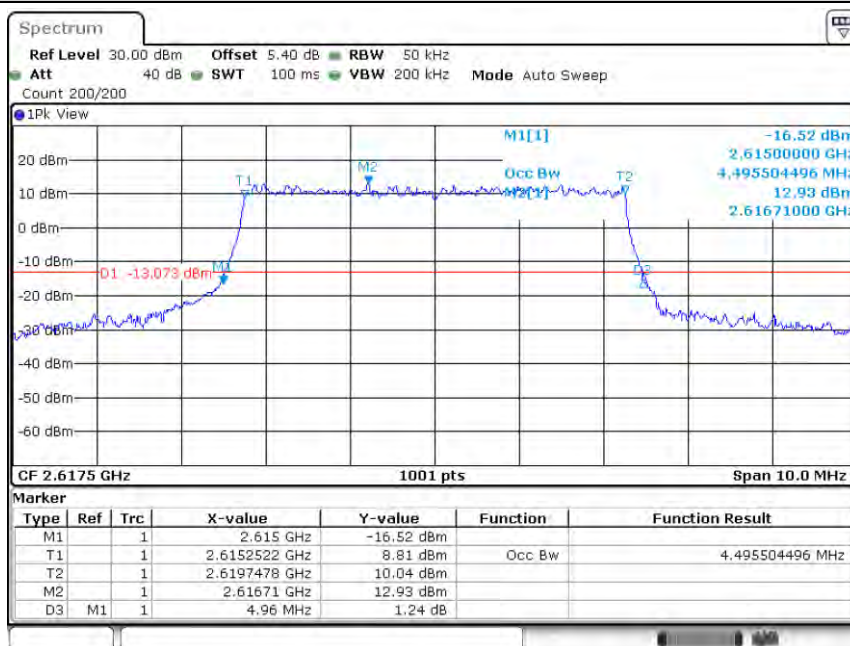


Band38-5MHz-16QAM-38000-25RB#0-4.496



Date: 15.AUG.2020 00:11:36

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



Date: 15.AUG.2020 00:12:41

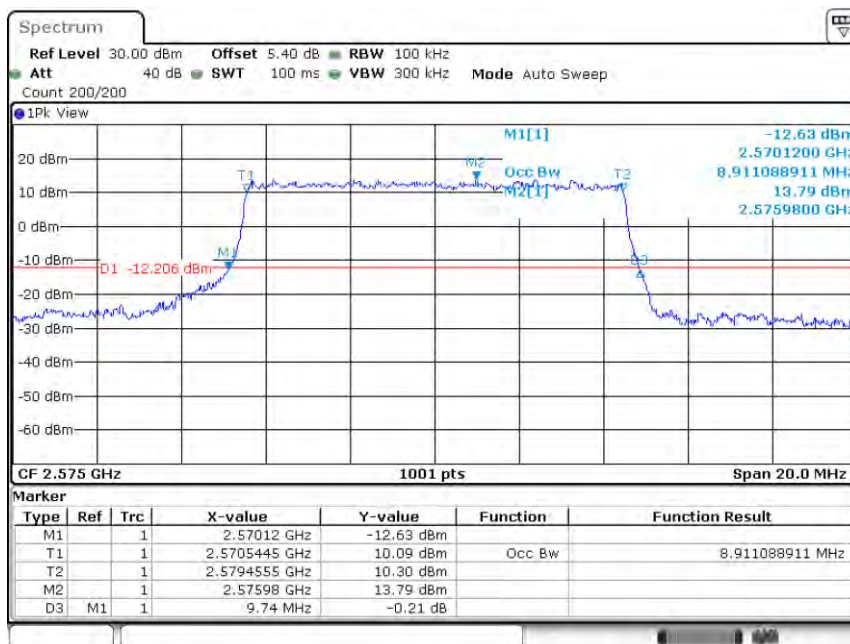


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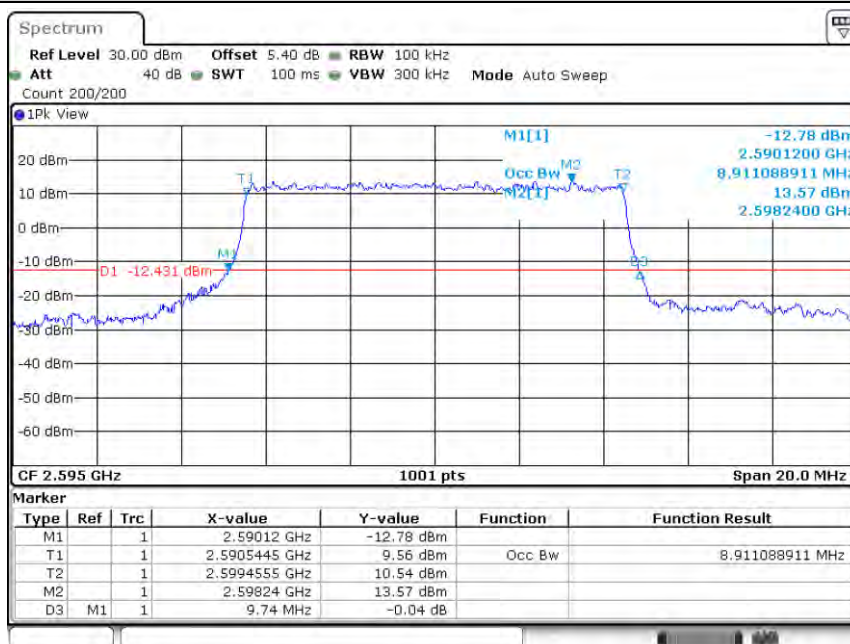


Band38-10MHz-QPSK-37800-50RB#0-8.911



Date: 15.AUG.2020 00:13:20

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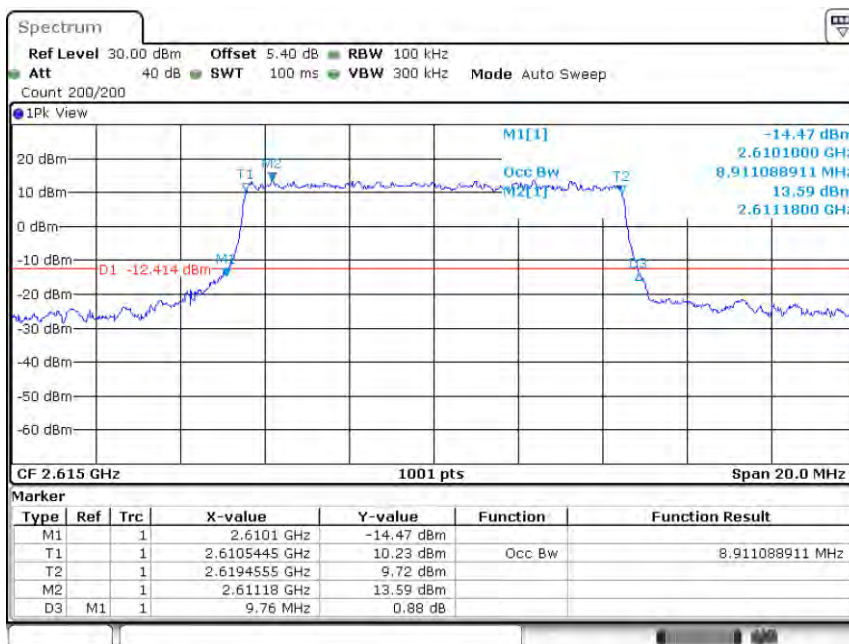


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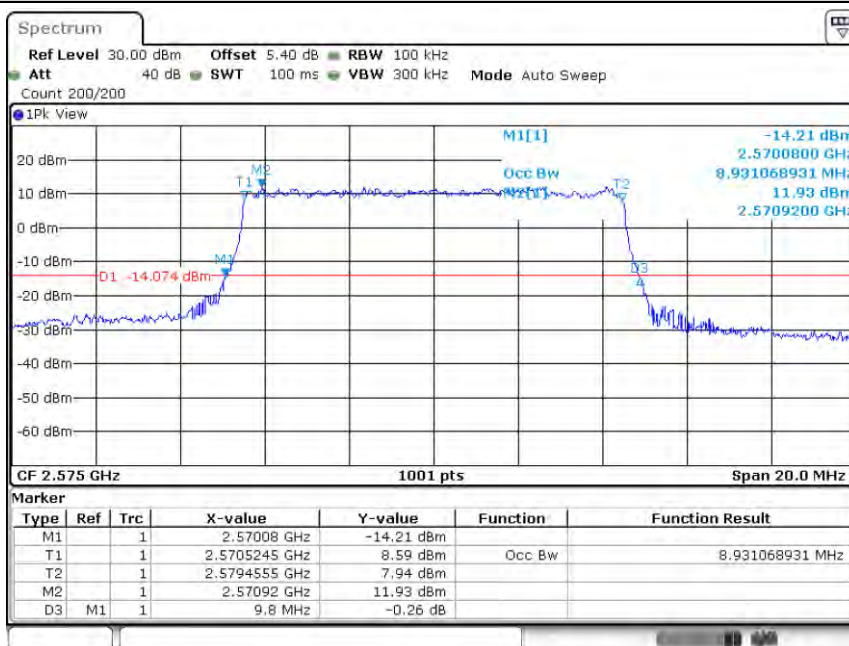


Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 15.AUG.2020 00:15:32

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



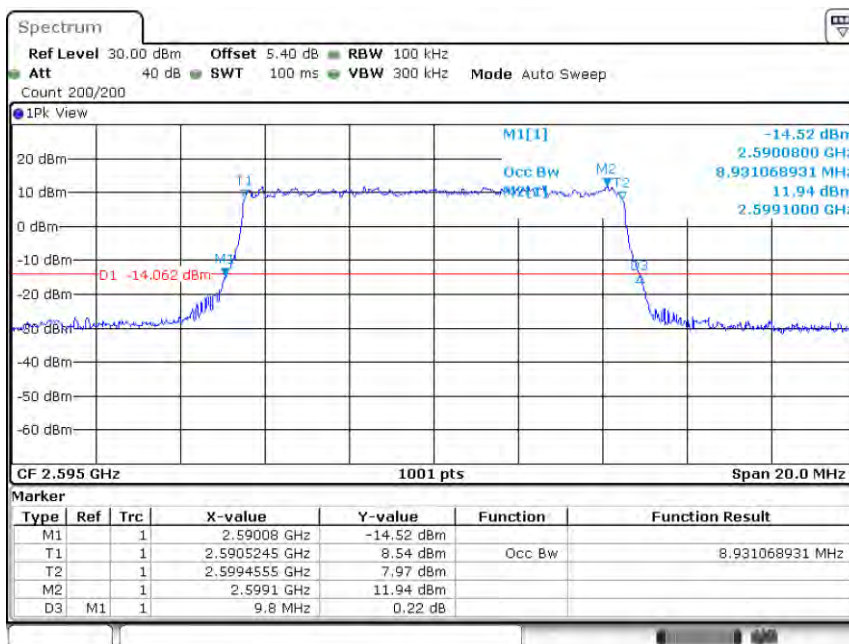
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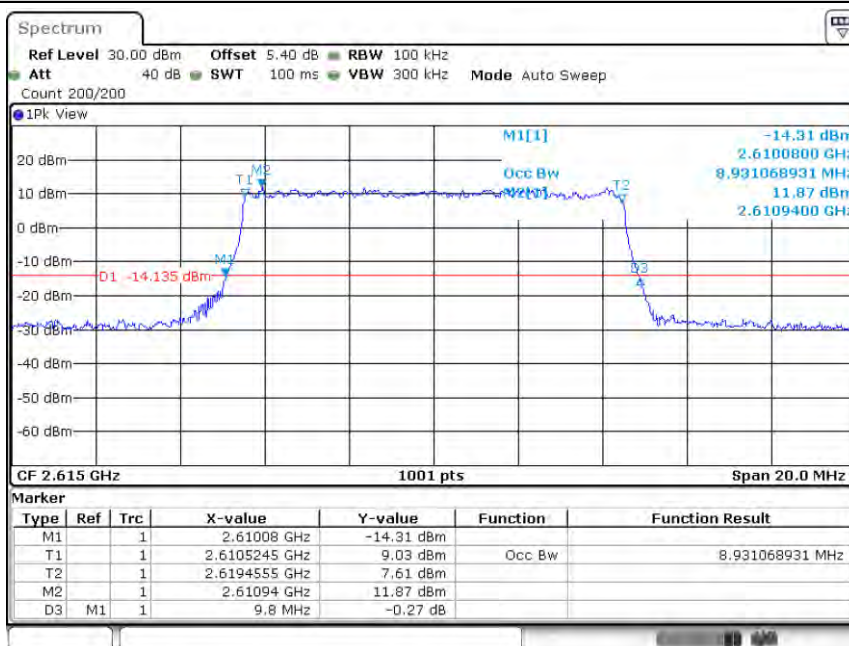
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Band38-10MHz-64QAM-38000-50RB#0-8.931



Date: 15.AUG.2020 02:34:20

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

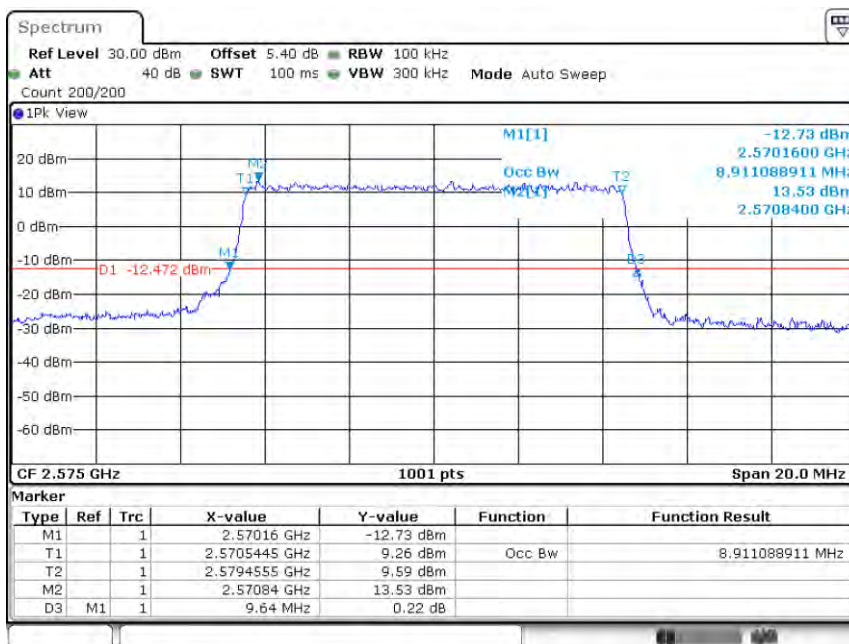


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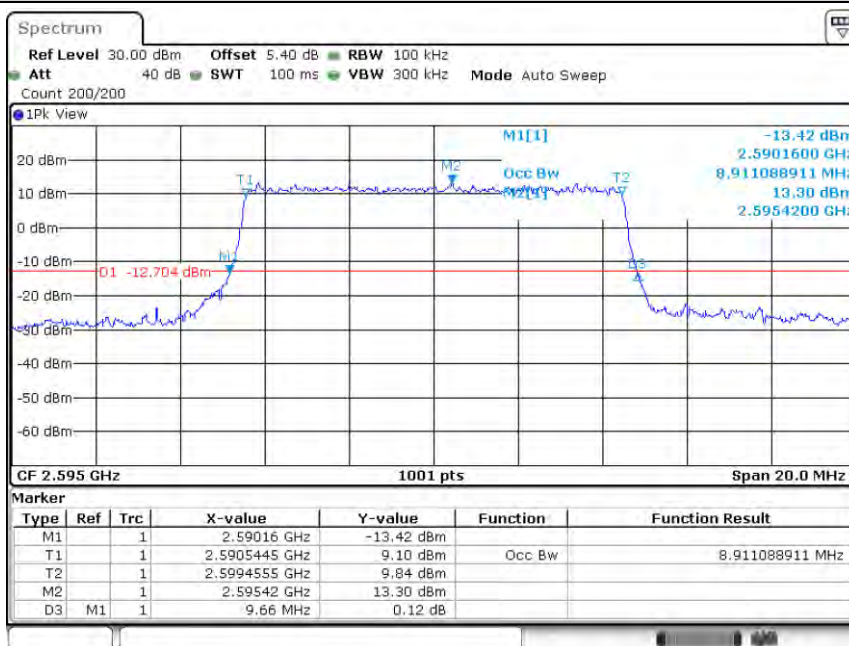


Band38-10MHz-16QAM-37800-50RB#0-8.911



Date: 15.AUG.2020 00:13:53

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



Date: 15.AUG.2020 00:14:59

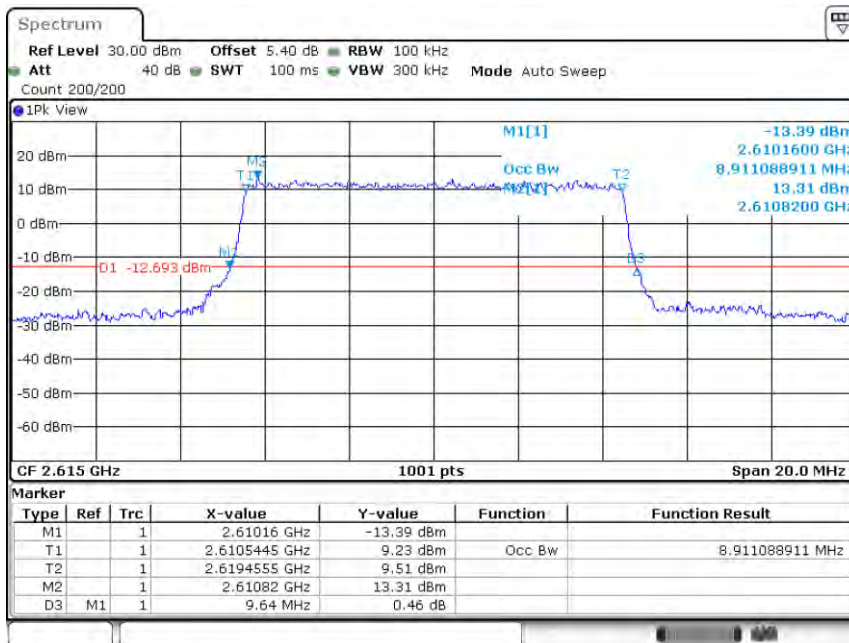


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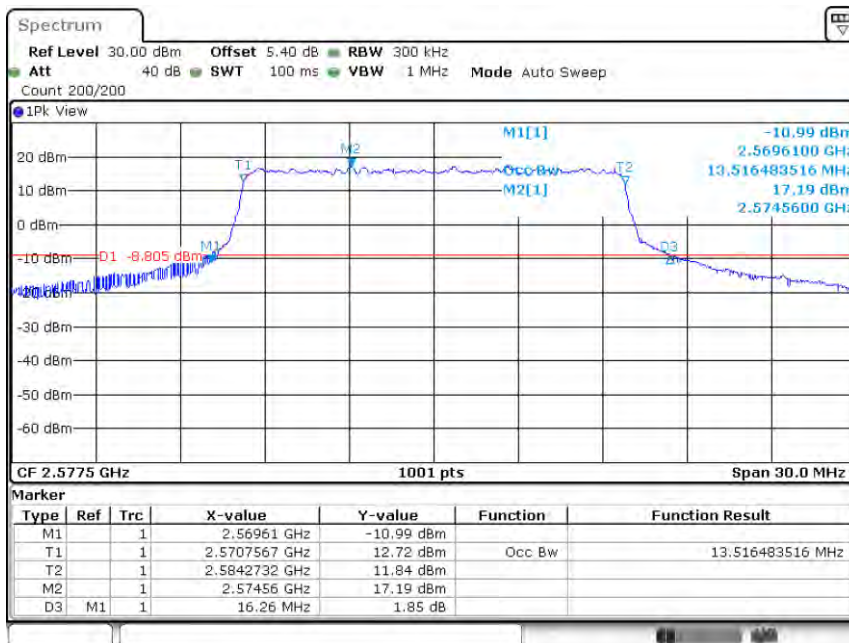


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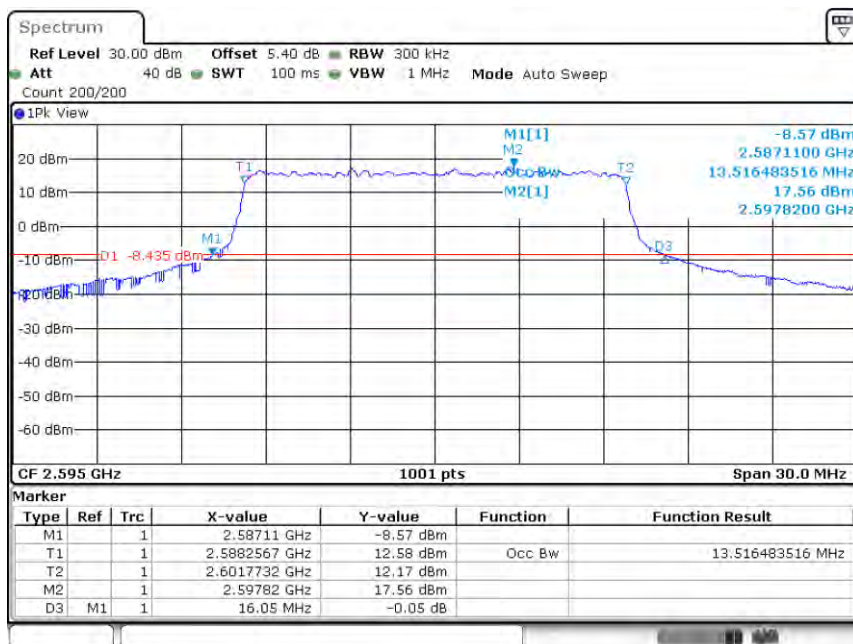
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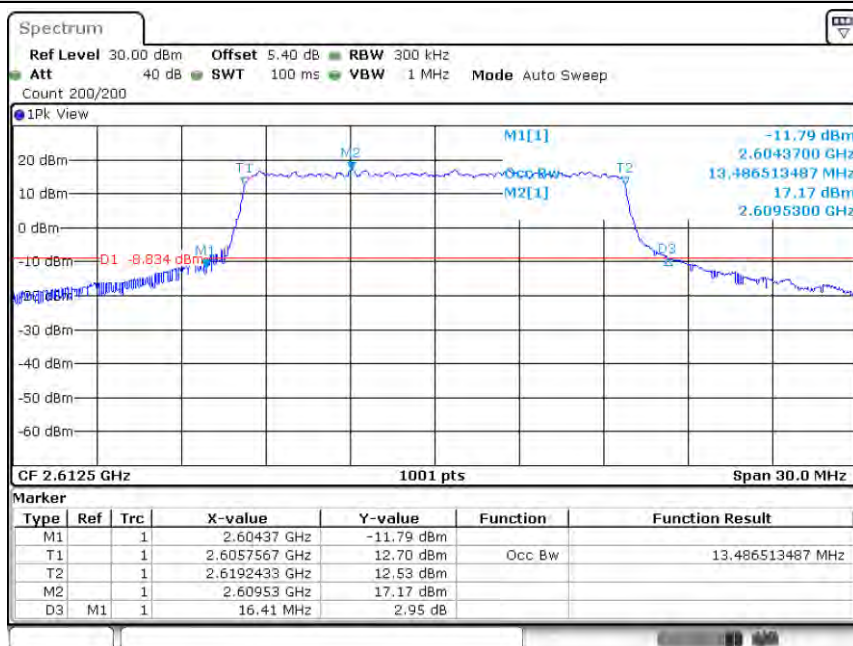


Band38-15MHz-QPSK-38000-75RB#0-13.516



Date: 21.AUG.2020 14:40:17

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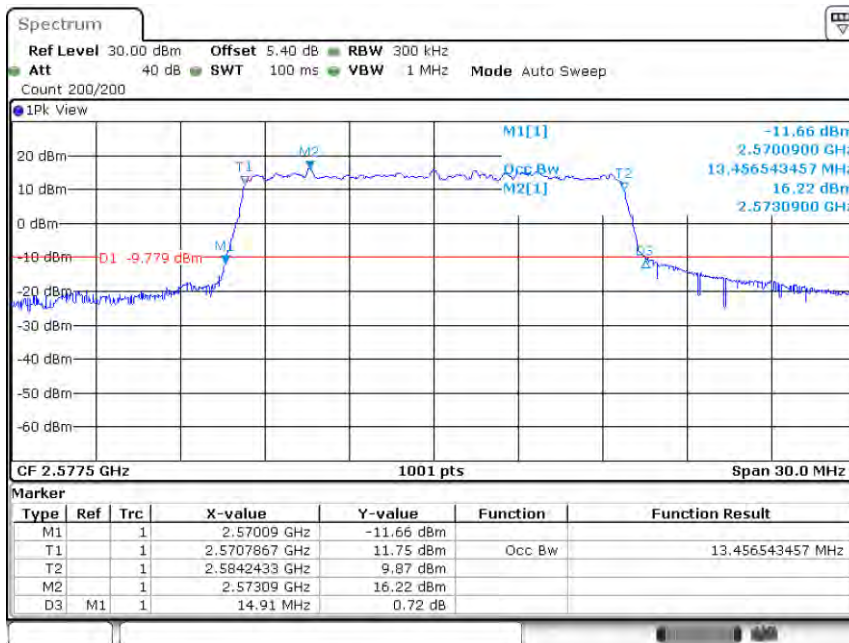


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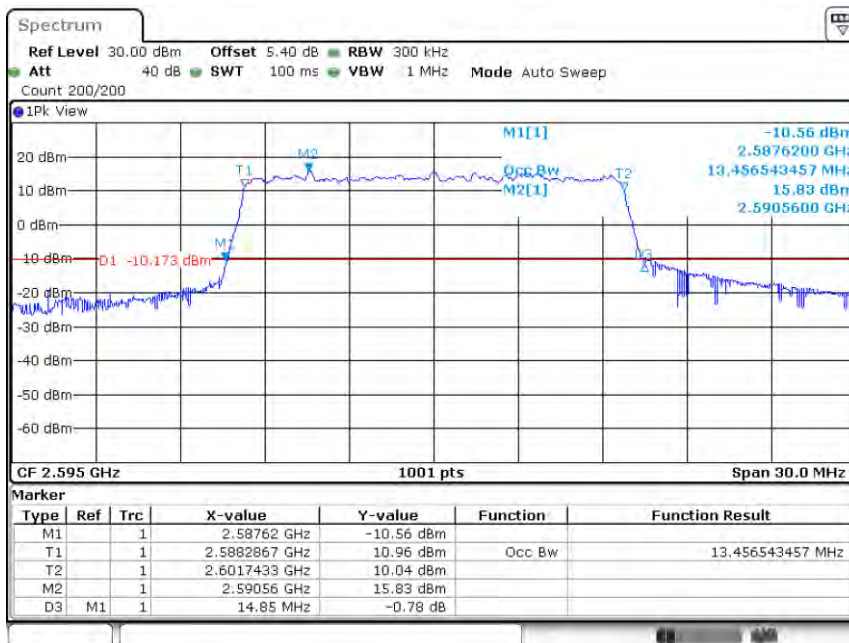


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Date: 15.AUG.2020 02:35:33

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



Date: 15.AUG.2020 02:36:06



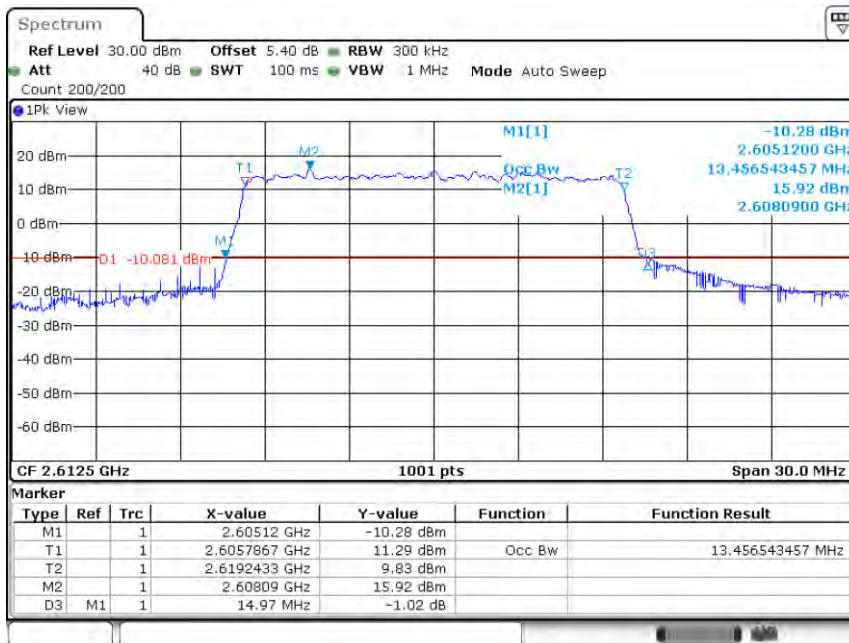
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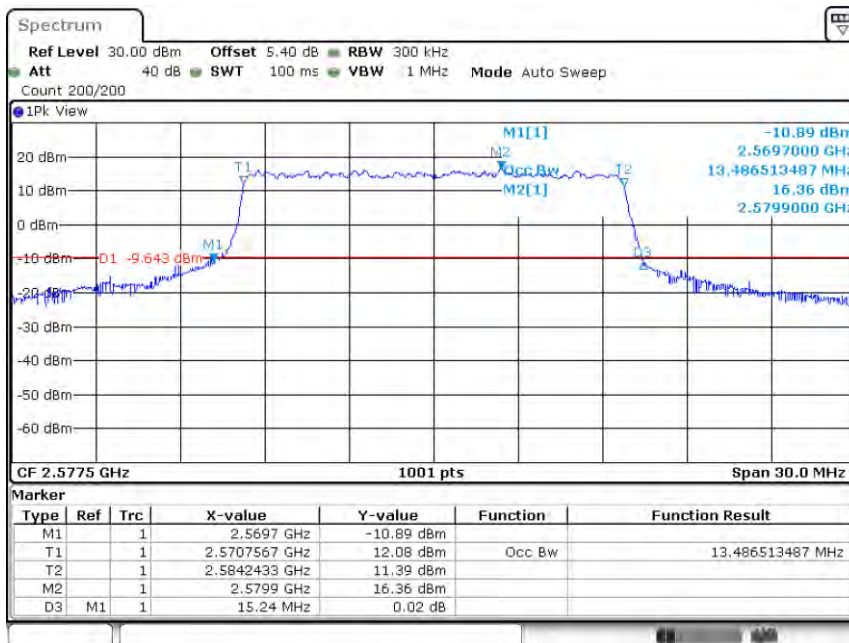


Band38-15MHz-64QAM-38175-75RB#0-13.457



Date: 15.AUG.2020 02:36:39

Band38-15MHz-16QAM-37825-75RB#0-13.487



Date: 21.AUG.2020 14:38:21



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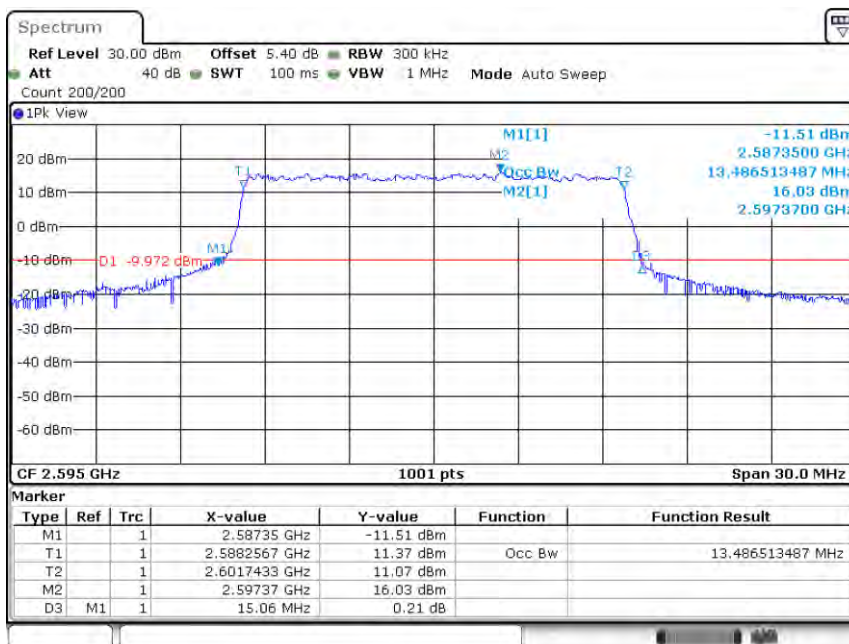
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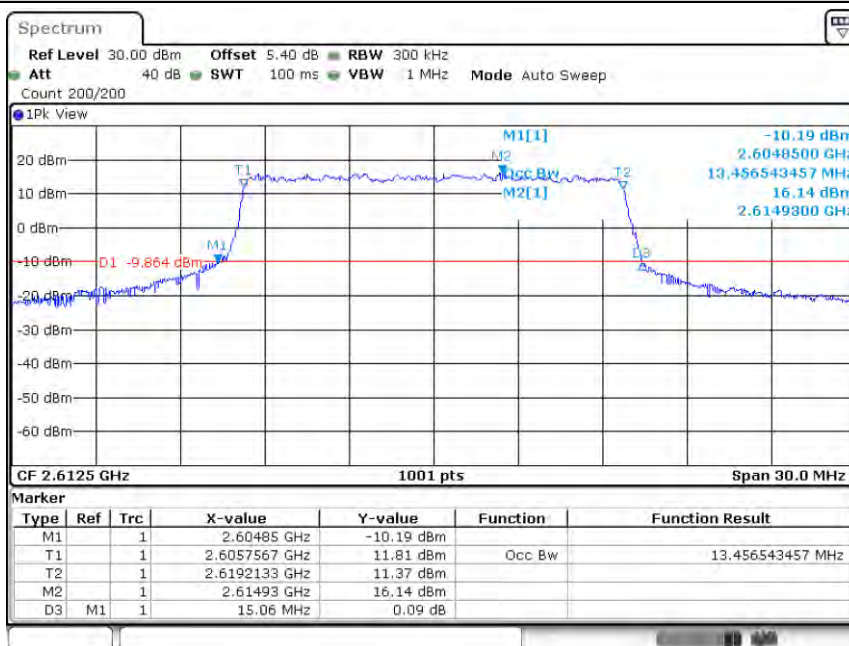


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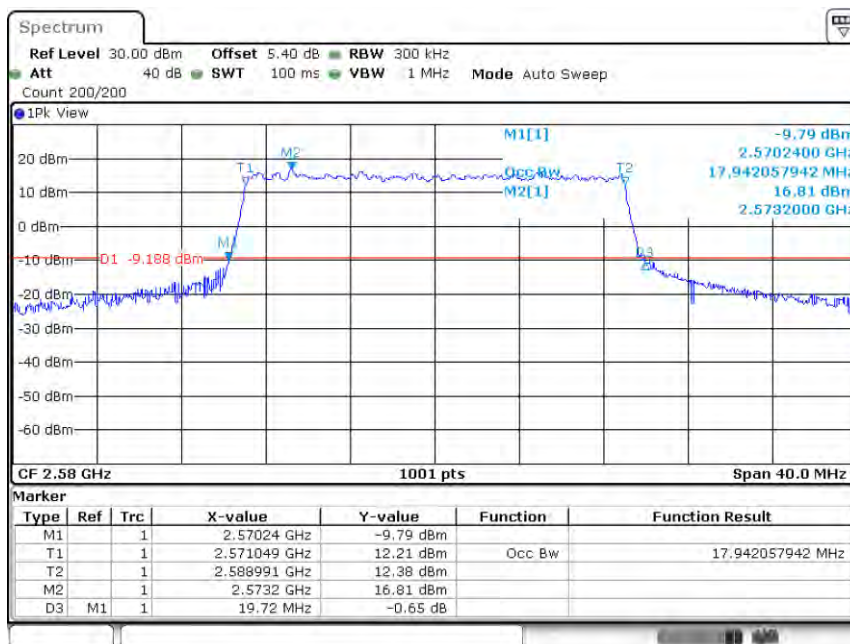


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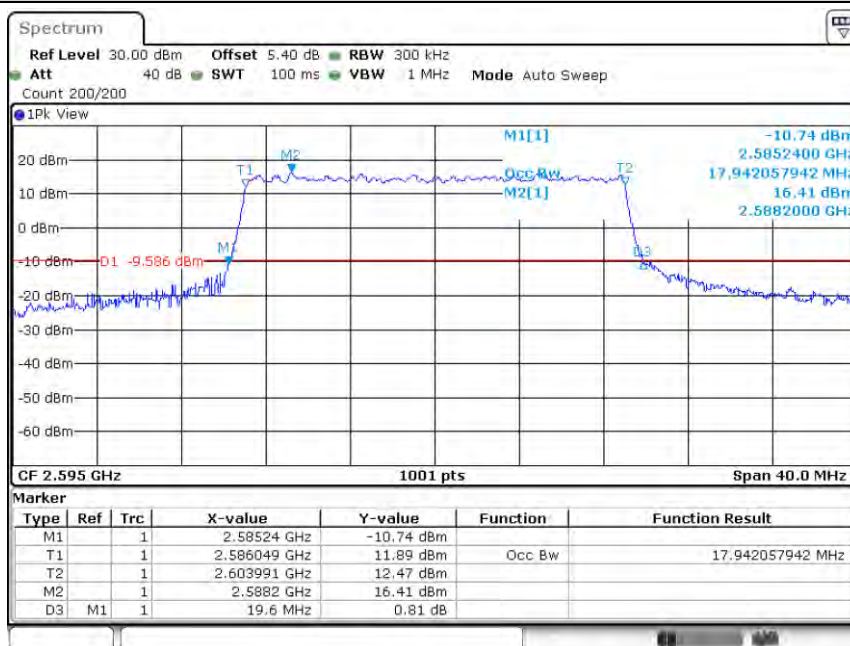


Band38-20MHz-QPSK-37850-100RB#0-17.942



Date: 15.AUG.2020 00:20:08

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



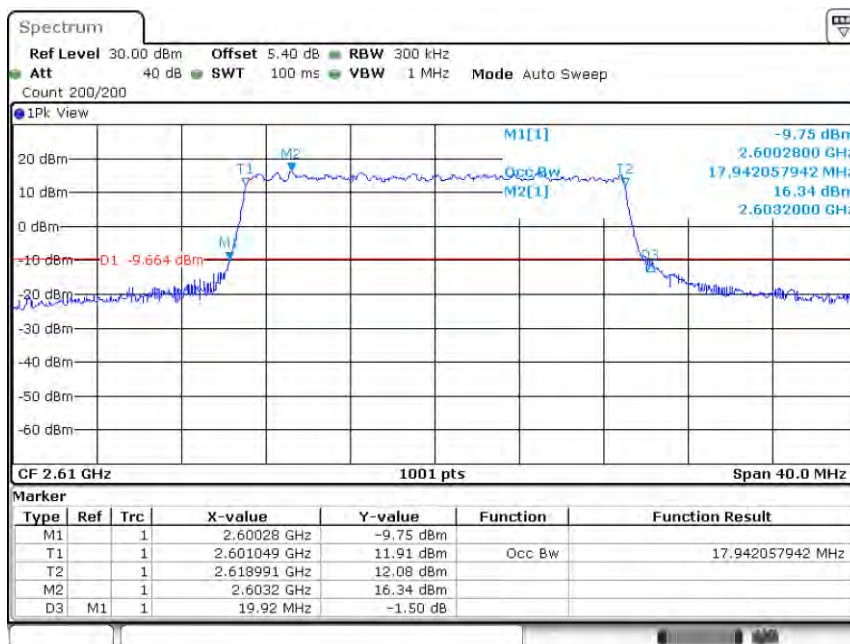
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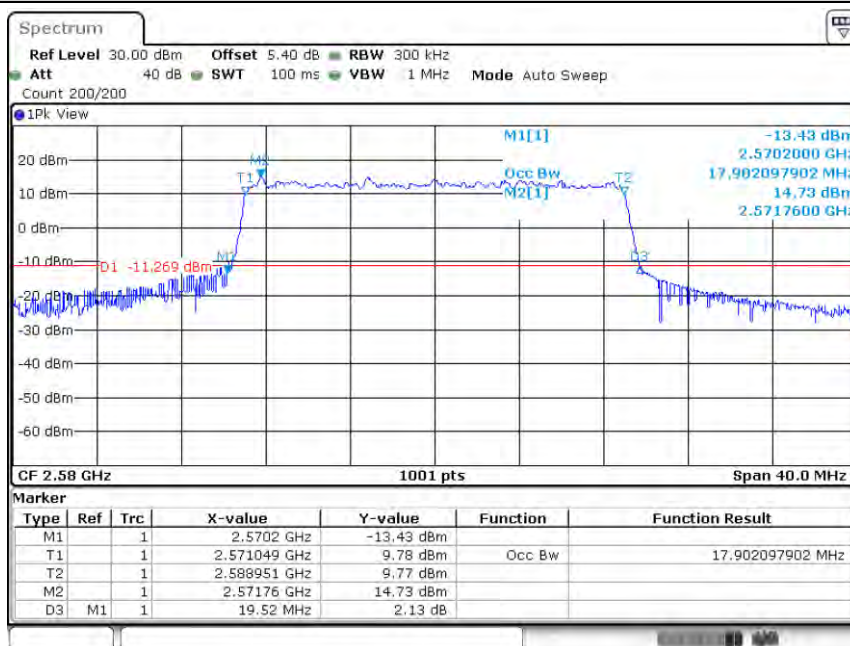
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Band38-20MHz-QPSK-38150-100RB#0-17.942



Date: 15.AUG.2020 00:22:20

Band38-20MHz-64QAM-37850-100RB#0-17.902

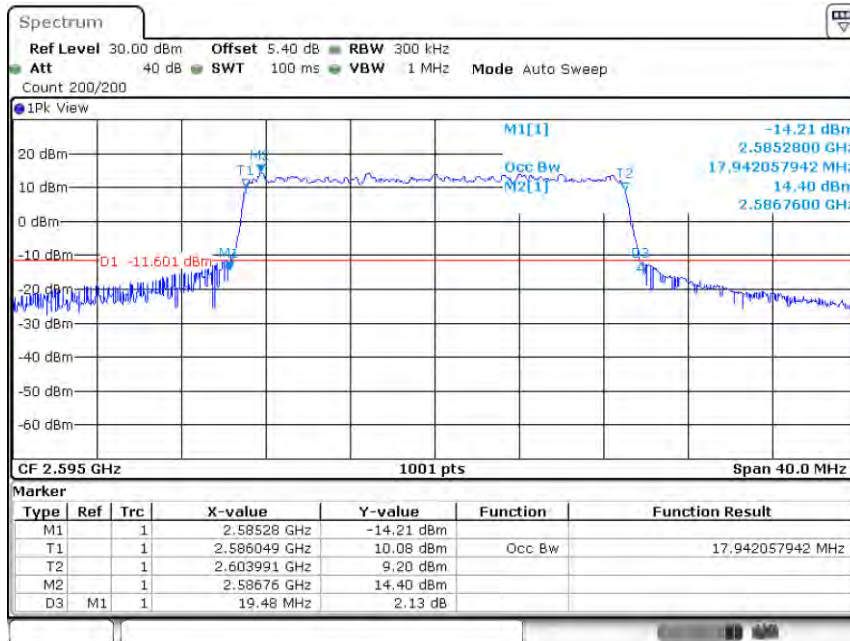


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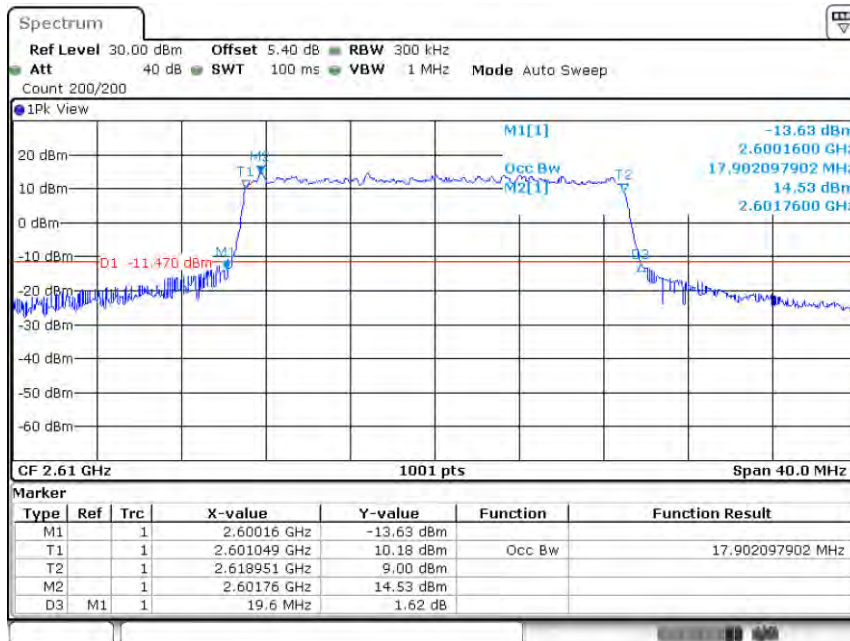


Band38-20MHz-64QAM-38000-100RB#0-17.942



Date: 15.AUG.2020 02:37:52

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



Date: 15.AUG.2020 02:38:25

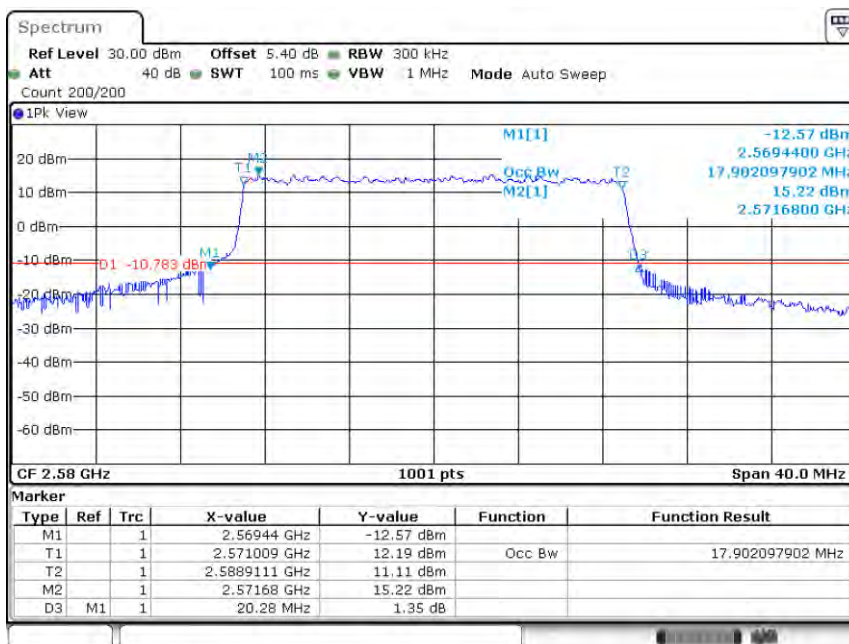


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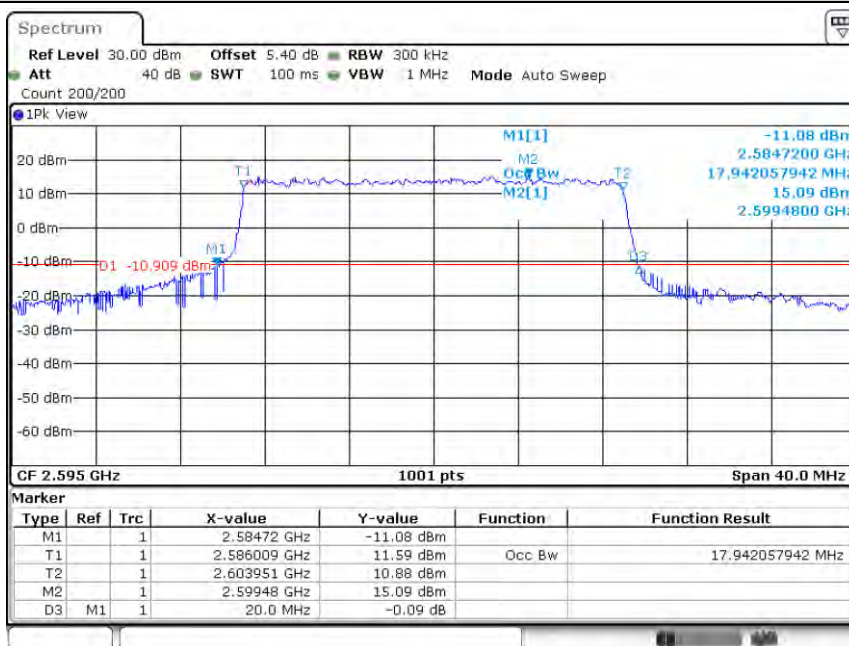


Band38-20MHz-16QAM-37850-100RB#0-17.902



Date: 15.AUG.2020 00:20:41

Band38-20MHz-16QAM-38000-100RB#0-17.942



Date: 15.AUG.2020 00:21:47



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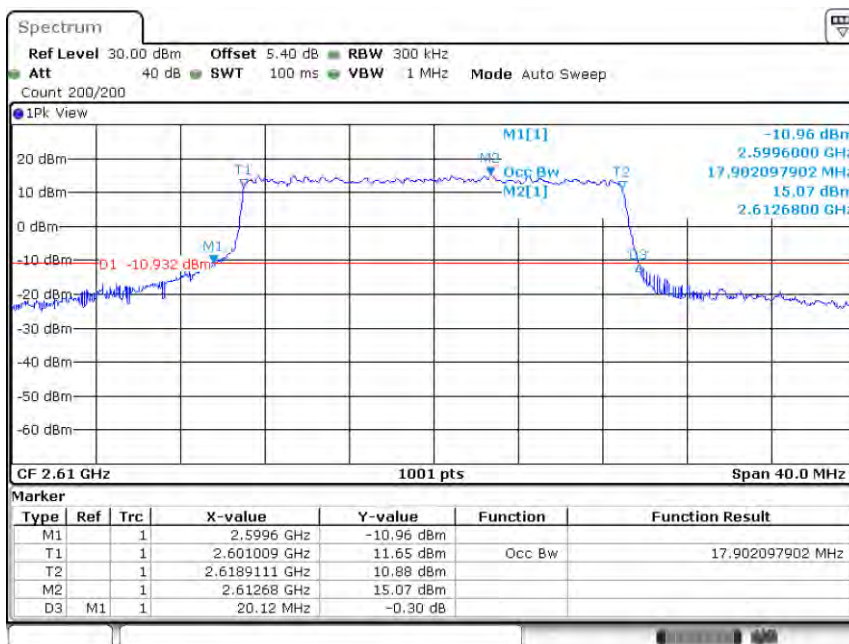
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Band38-20MHz-16QAM-38150-100RB#0-17.902



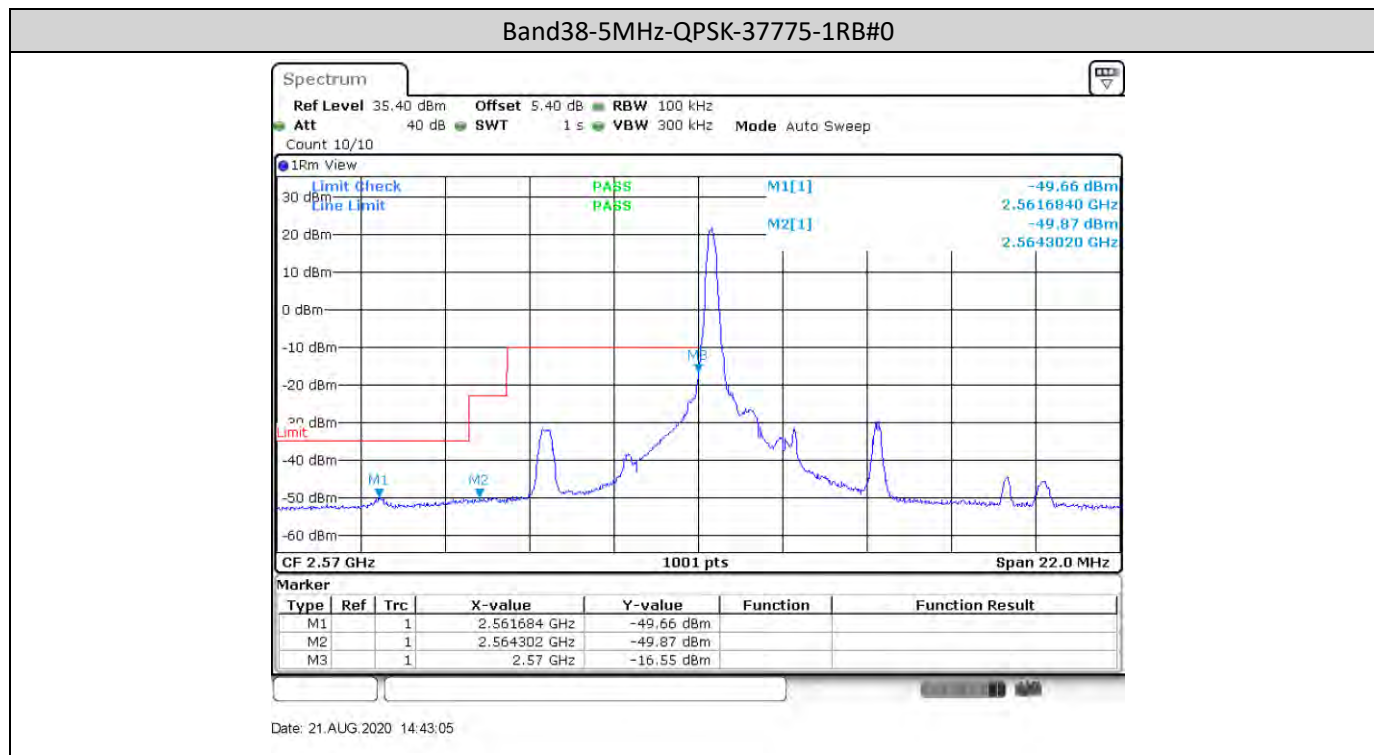
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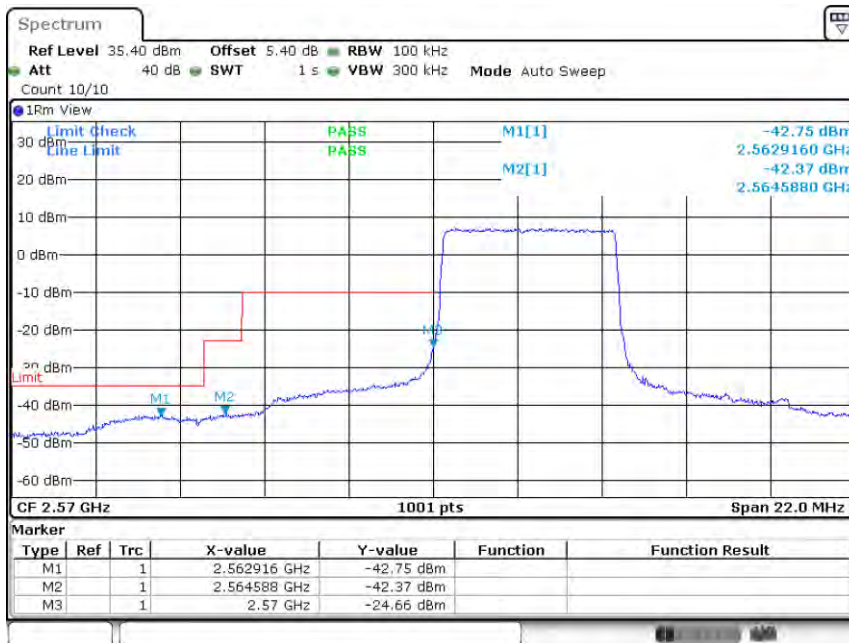
5. Band Edge Compliance

5.1. Test Plots



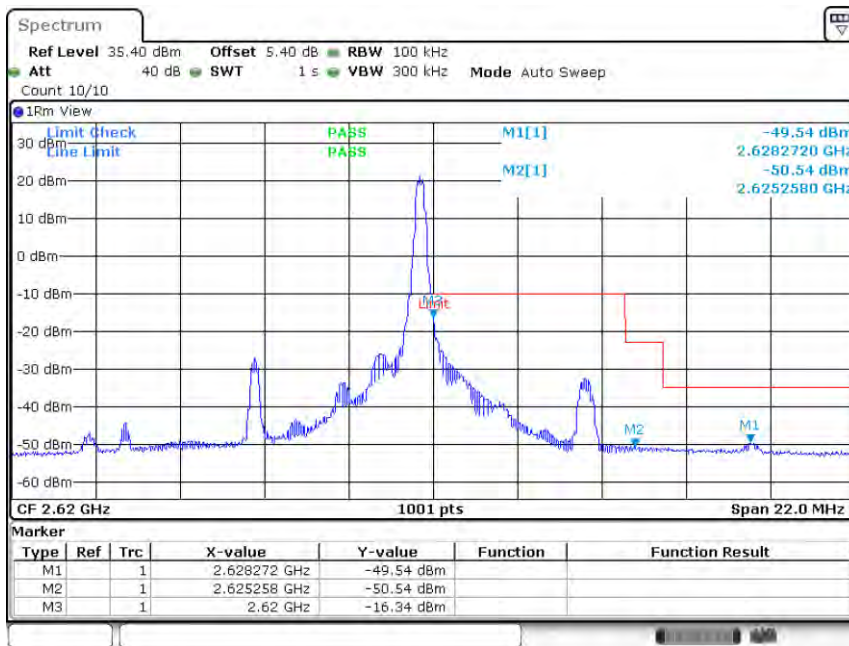


Band38-5MHz-QPSK-37775-25RB#0



Date: 21.AUG.2020 14:45:16

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



Date: 21.AUG.2020 14:44:10



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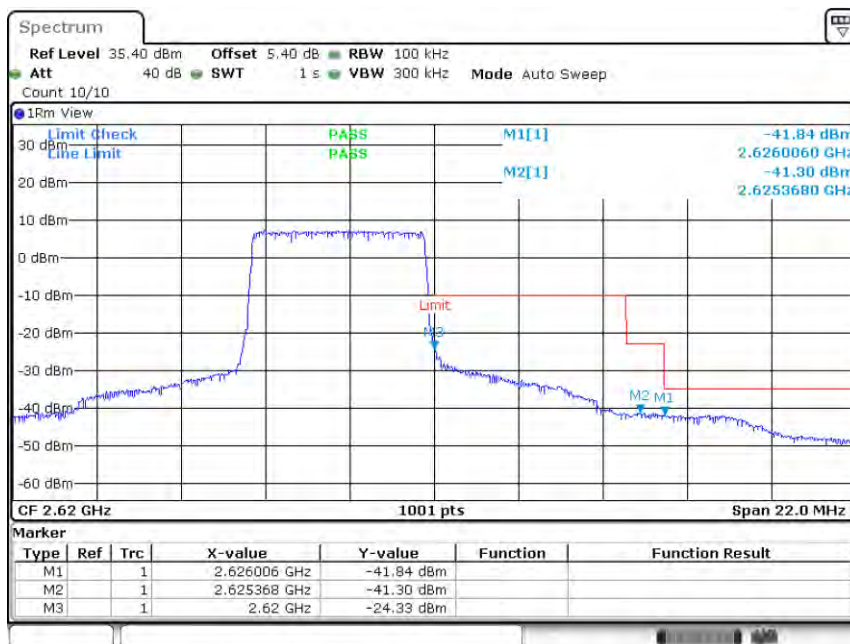
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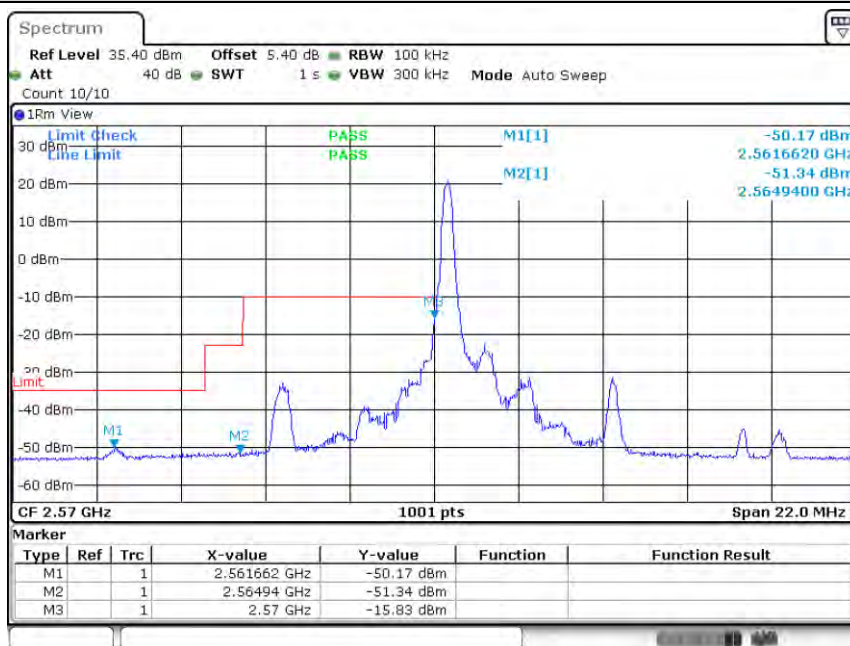


Band38-5MHz-QPSK-38225-25RB#0



Date: 21.AUG.2020 14:46:29

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



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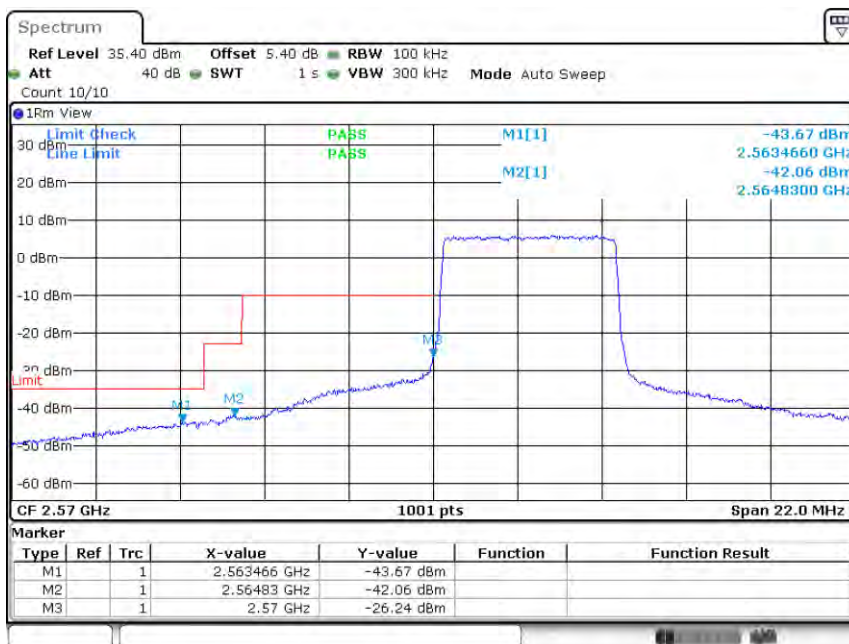


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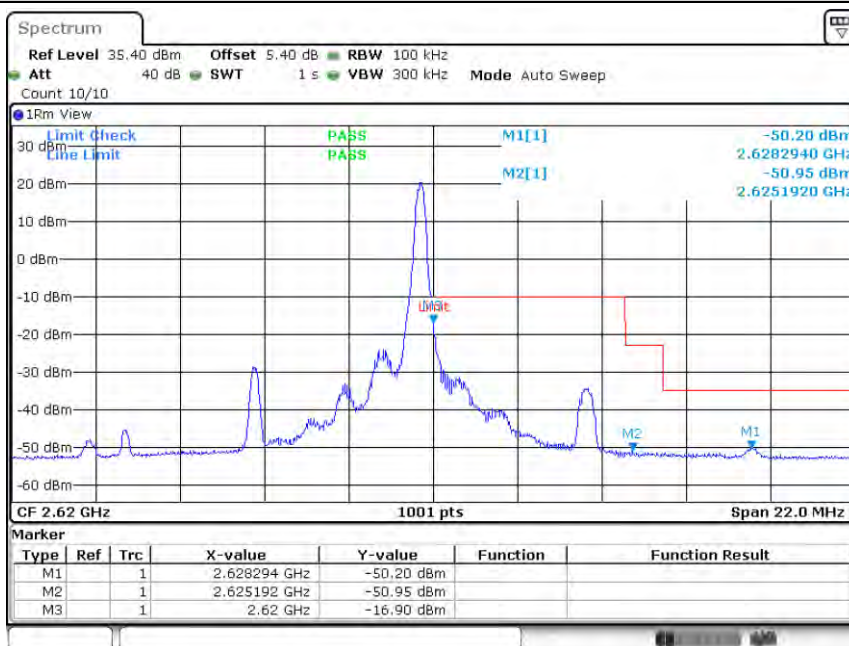


Band38-5MHz-64QAM-37775-25RB#0



Date: 21.AUG.2020 14:49:07

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



Date: 21.AUG.2020 14:48:40



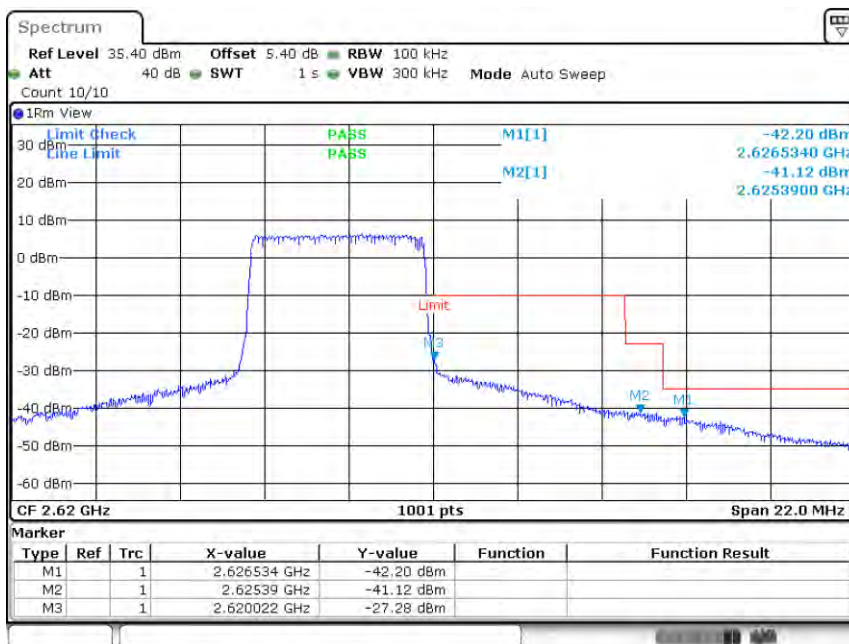
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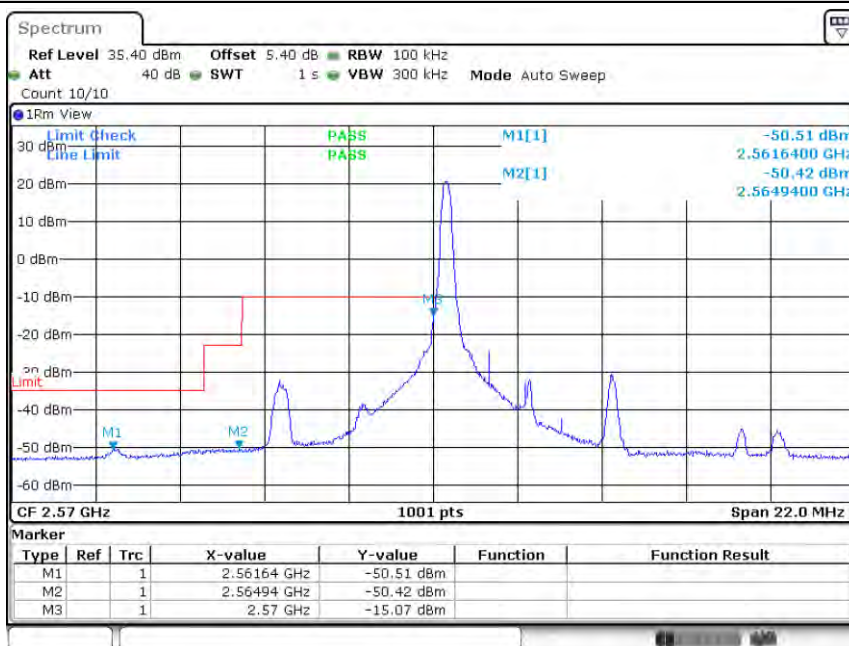


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Date: 21.AUG.2020 14:49:58

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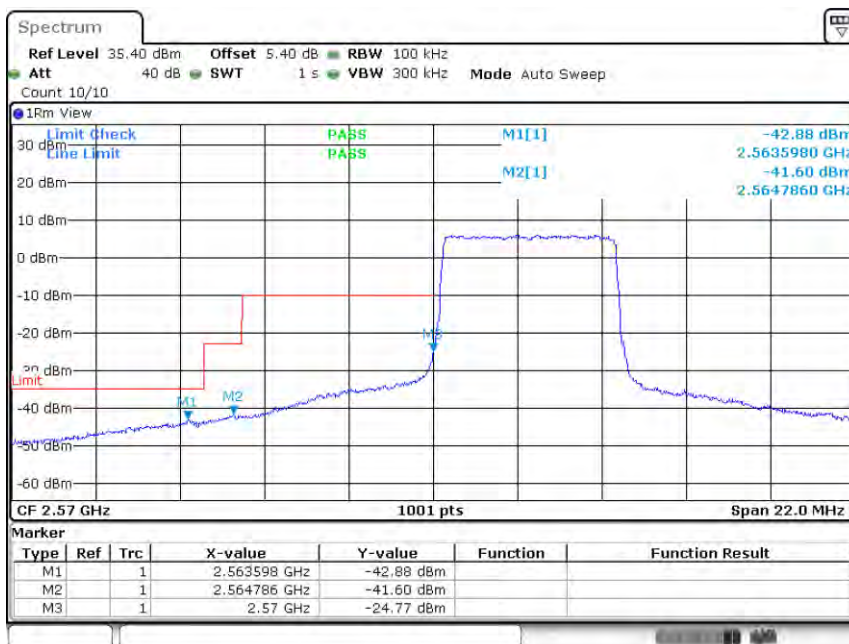


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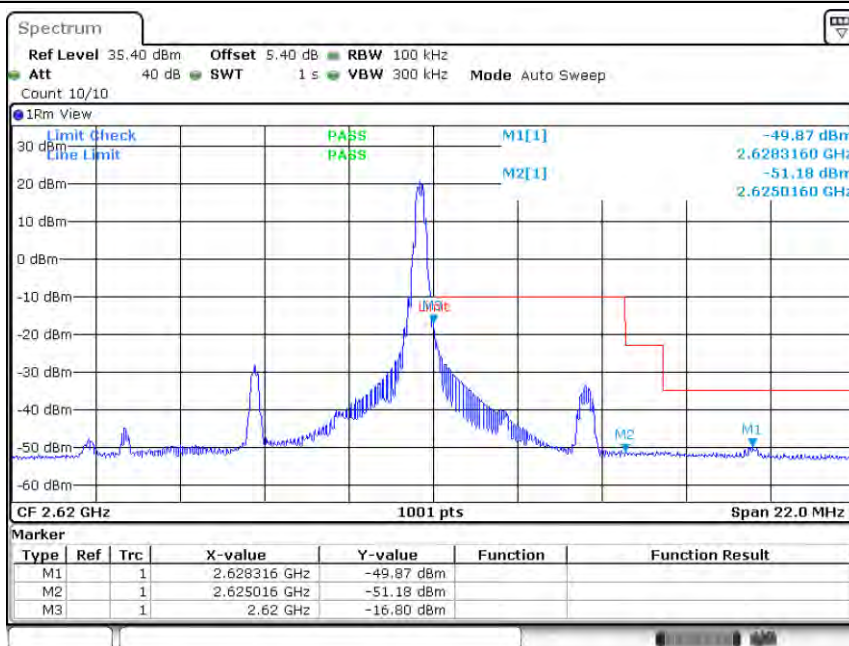


Band38-5MHz-16QAM-37775-25RB#0



Date: 21.AUG.2020 14:45:38

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



Date: 21.AUG.2020 14:44:50



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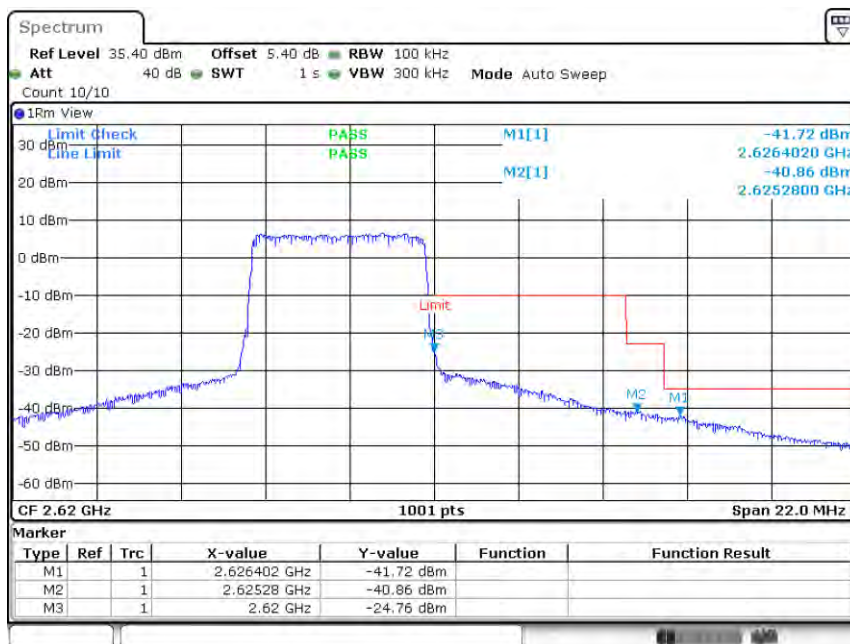
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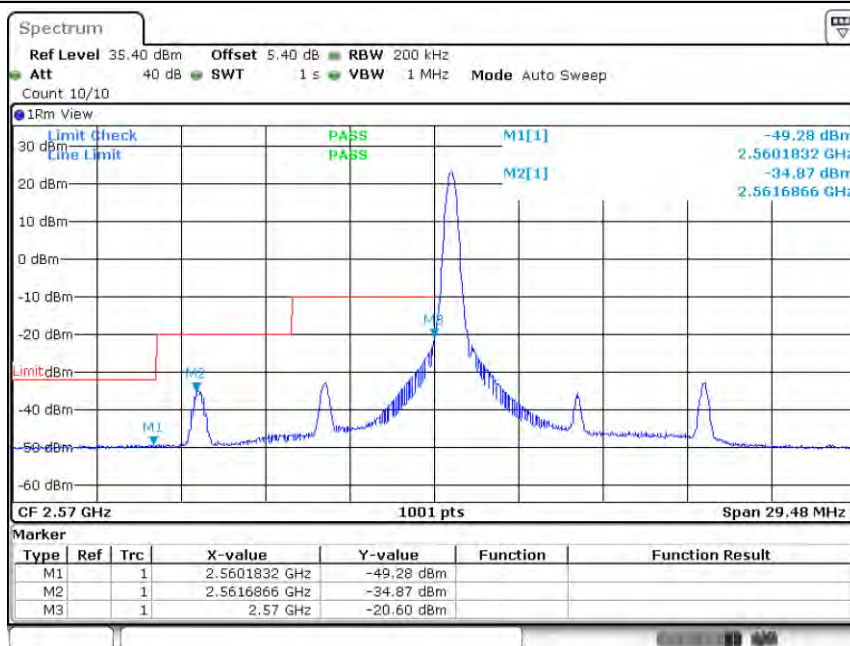


Band38-5MHz-16QAM-38225-25RB#0



Date: 21.AUG.2020 14:47:16

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



Date: 15.AUG.2020 00:26:31



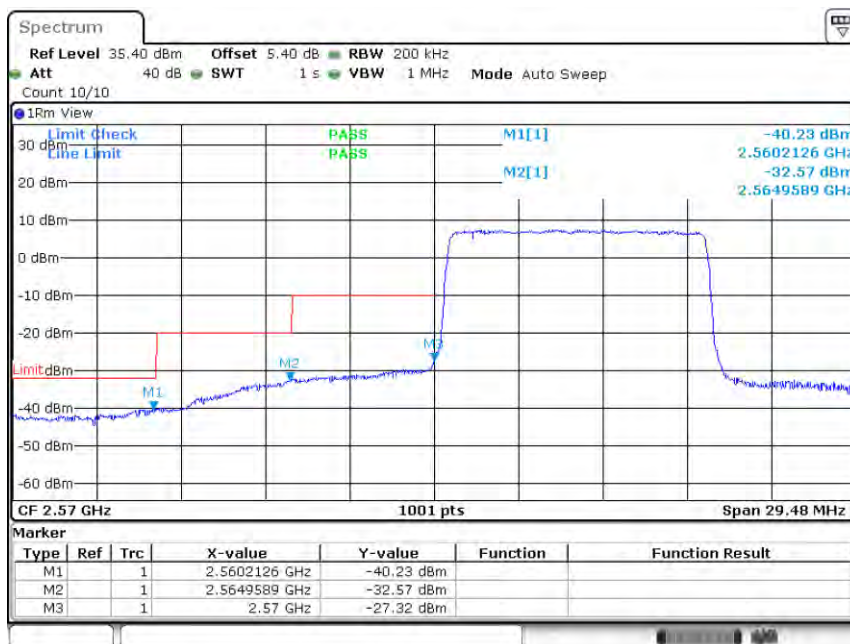
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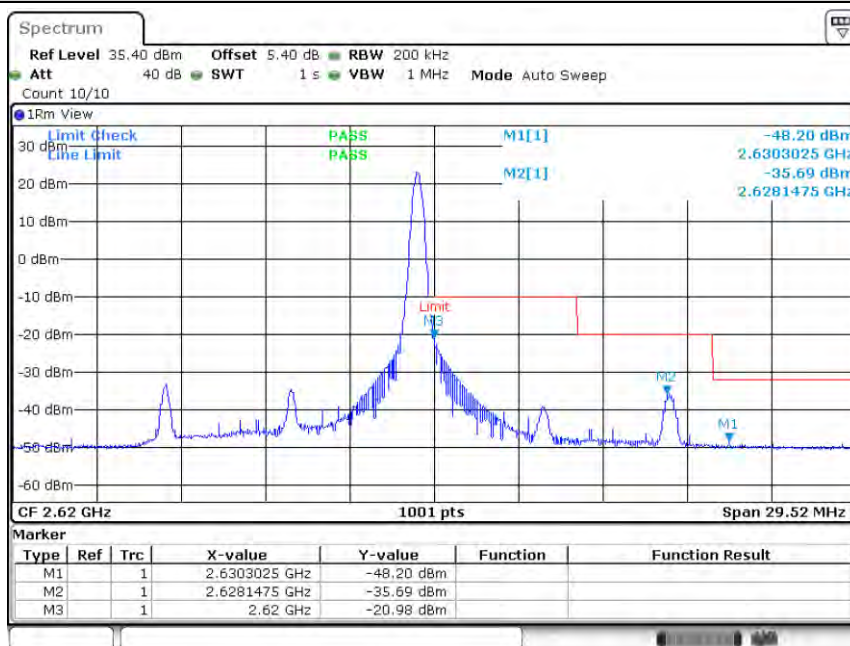


Band38-10MHz-QPSK-37800-50RB#0



Date: 15.AUG.2020 00:28:07

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Date: 15.AUG.2020 00:27:19

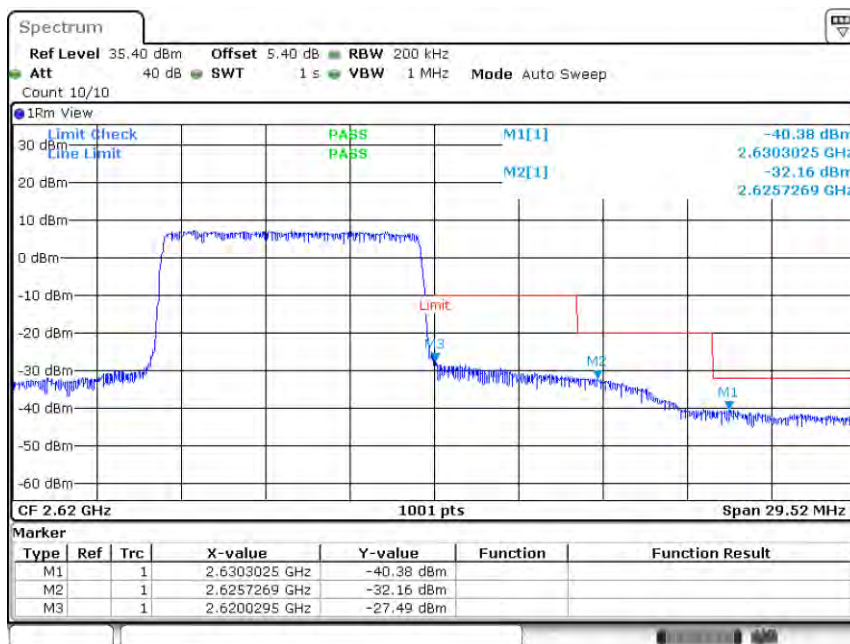


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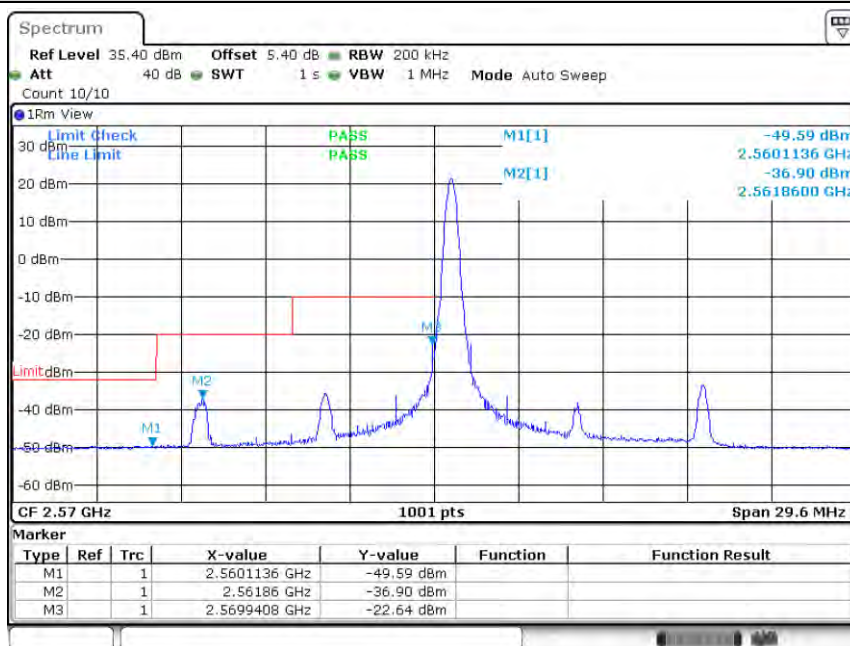


Band38-10MHz-QPSK-38200-50RB#0



Date: 15.AUG.2020 00:28:51

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



Date: 15.AUG.2020 02:40:39

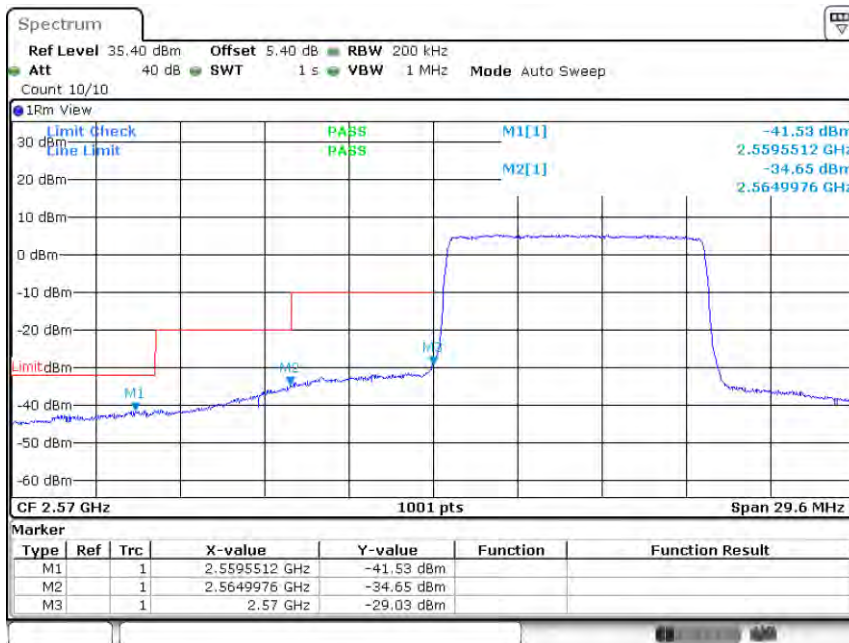


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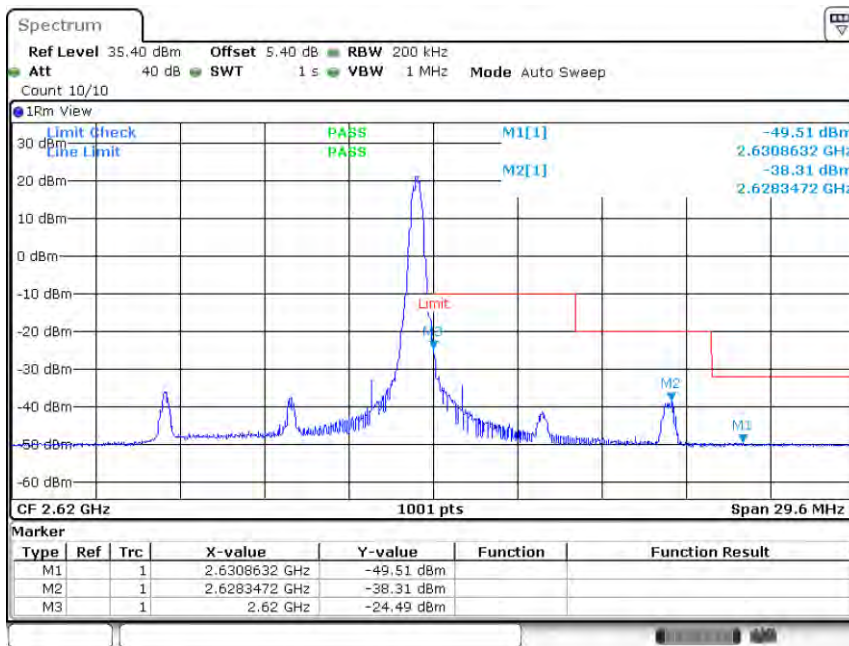


Band38-10MHz-64QAM-37800-50RB#0



Date: 15.AUG.2020 02:41:33

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



Date: 15.AUG.2020 02:41:06

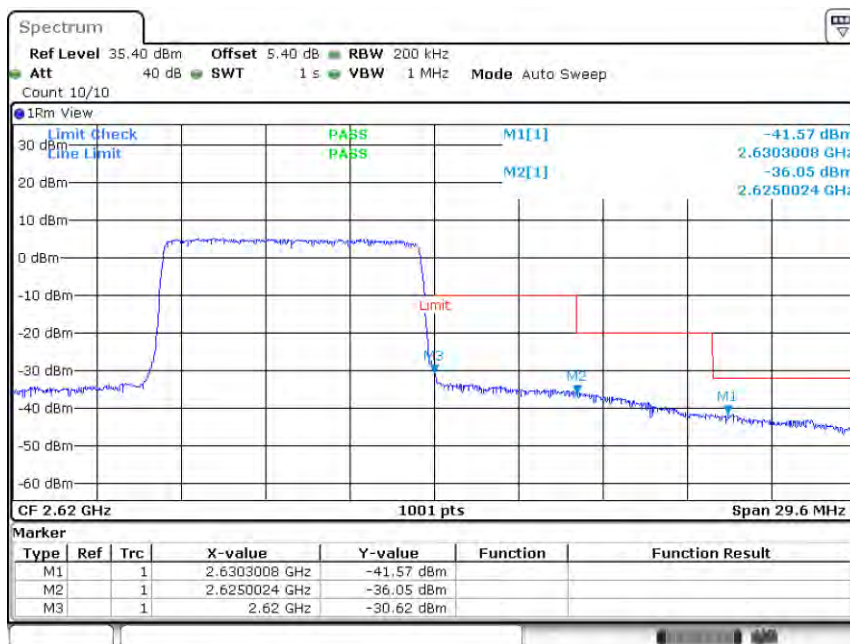


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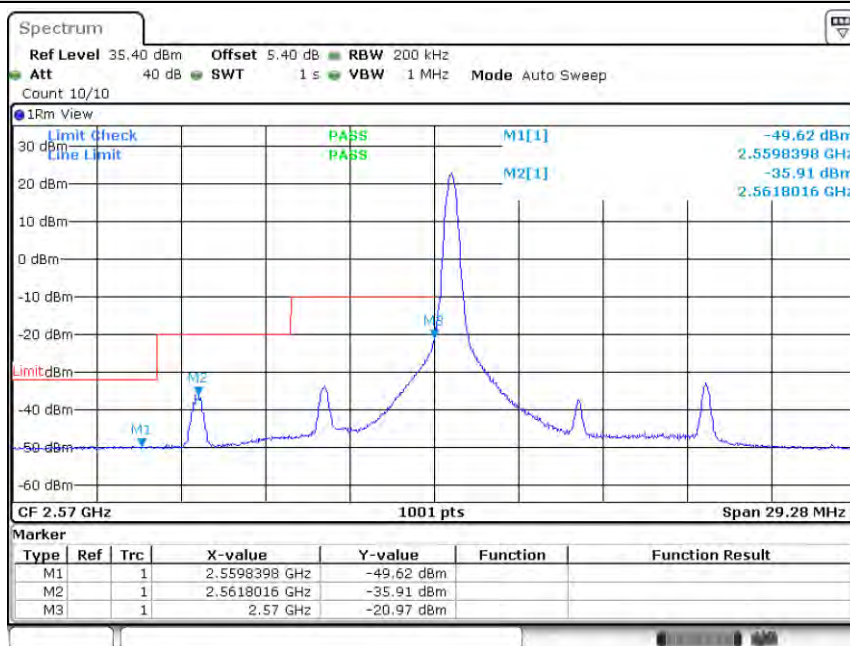
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Band38-10MHz-64QAM-38200-50RB#0



Date: 15.AUG.2020 02:41:55

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



Date: 15.AUG.2020 00:26:53

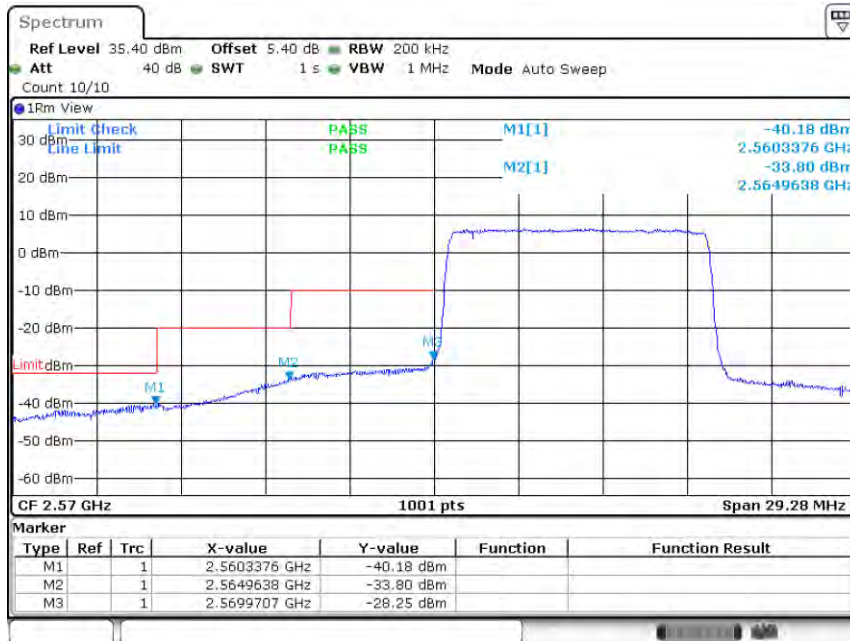


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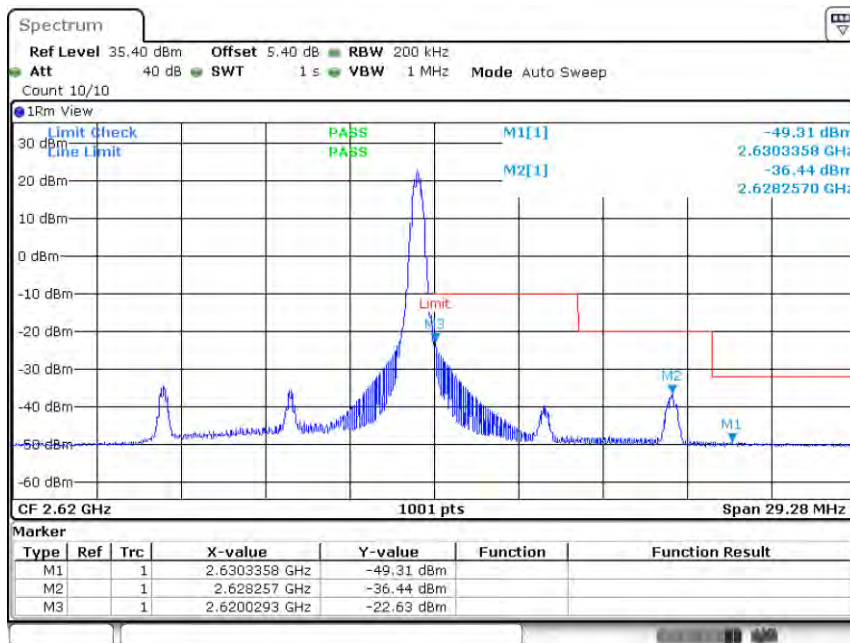


Band38-10MHz-16QAM-37800-50RB#0



Date: 15.AUG.2020 00:28:29

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



Date: 15.AUG.2020 00:27:41

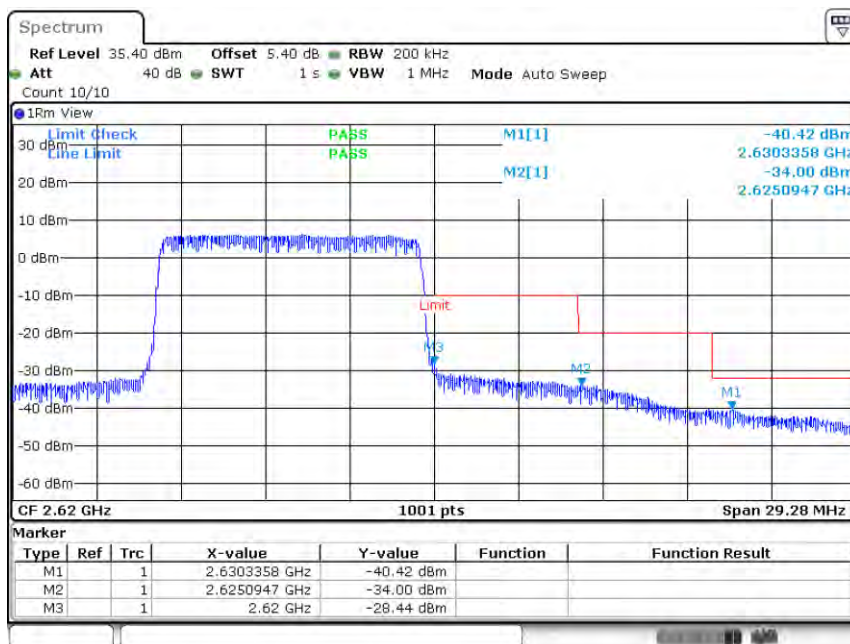


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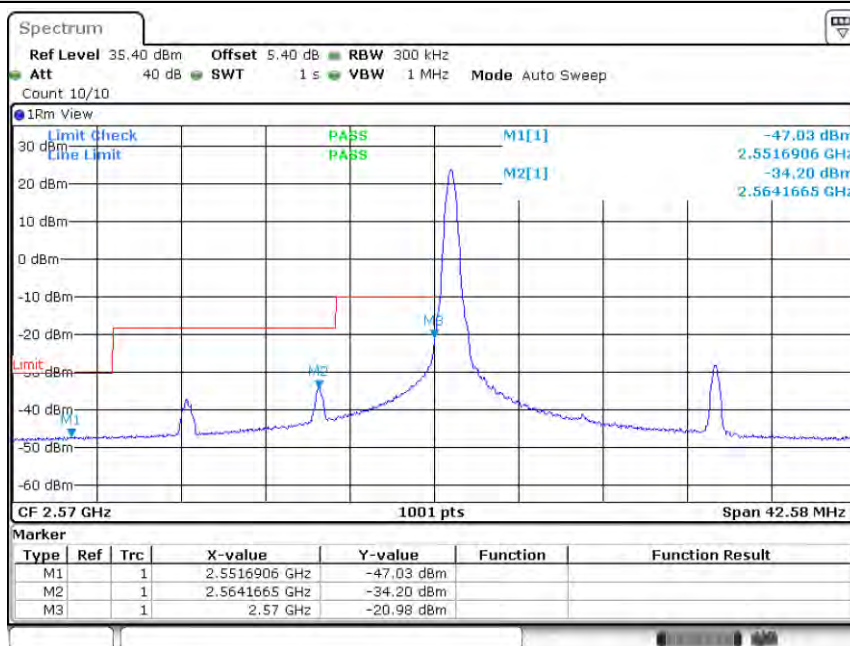


Band38-10MHz-16QAM-38200-50RB#0



Date: 15.AUG.2020 00:29:13

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

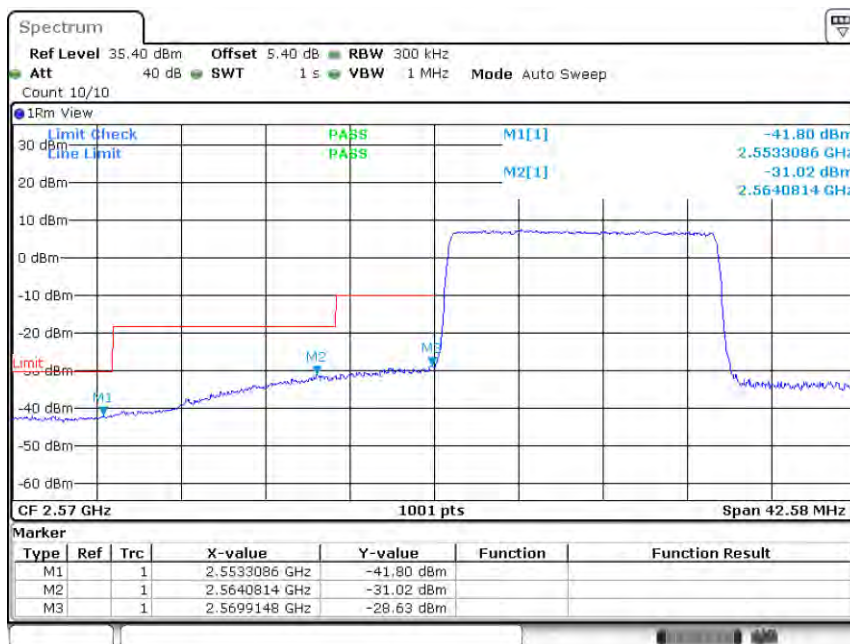


Date: 15.AUG.2020 00:29:41



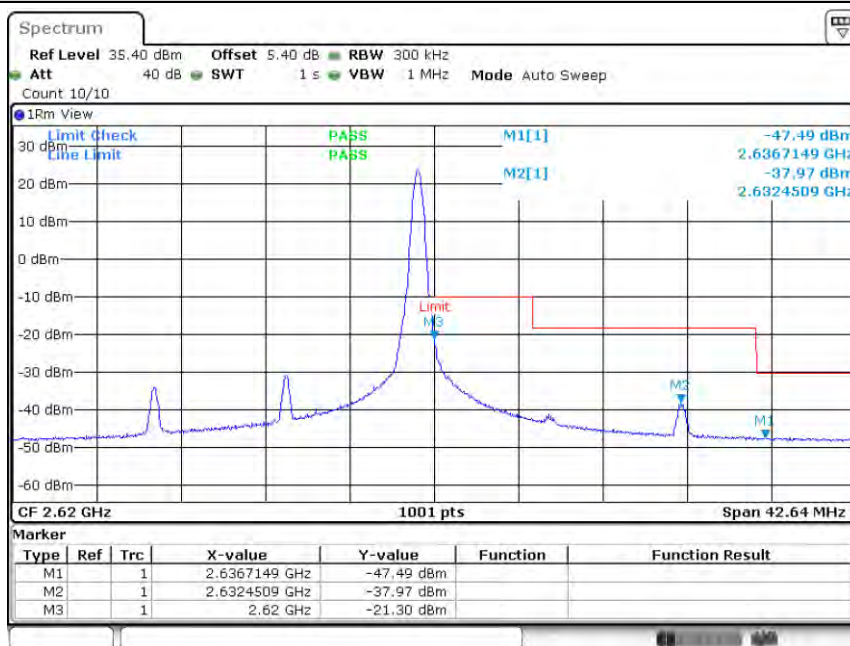


Band38-15MHz-QPSK-37825-75RB#0



Date: 15.AUG.2020 00:31:17

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



Date: 15.AUG.2020 00:30:29

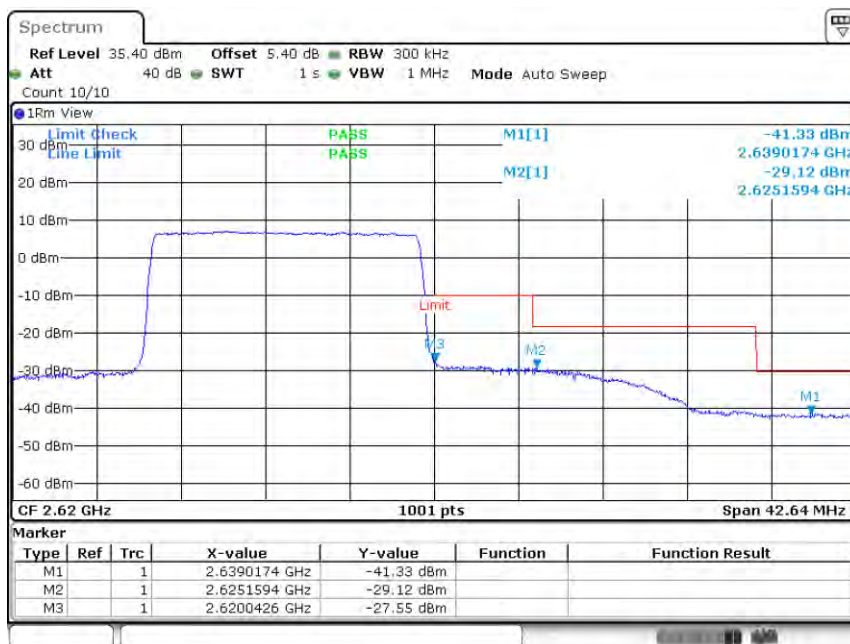


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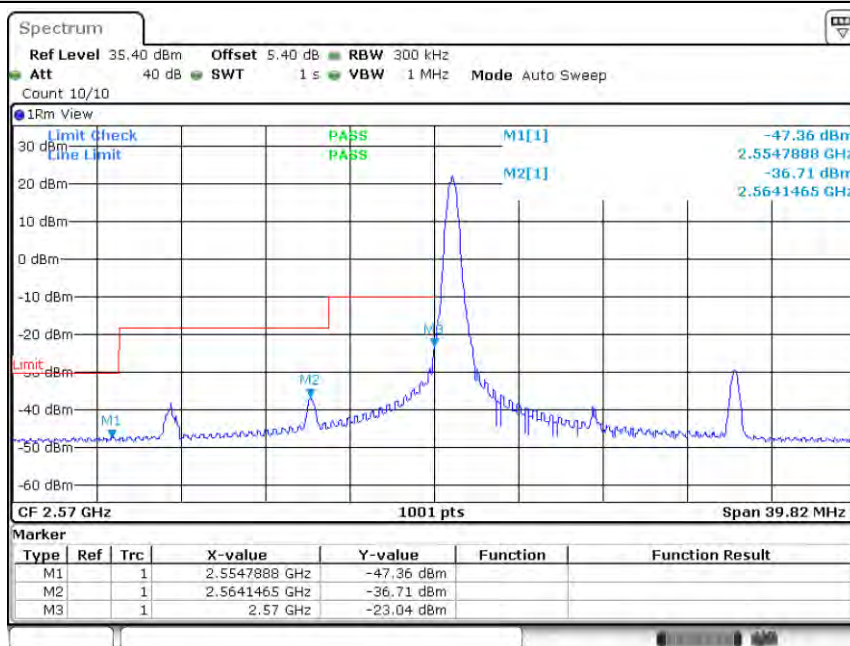


Band38-15MHz-QPSK-38175-75RB#0



Date: 15.AUG.2020 00:32:00

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

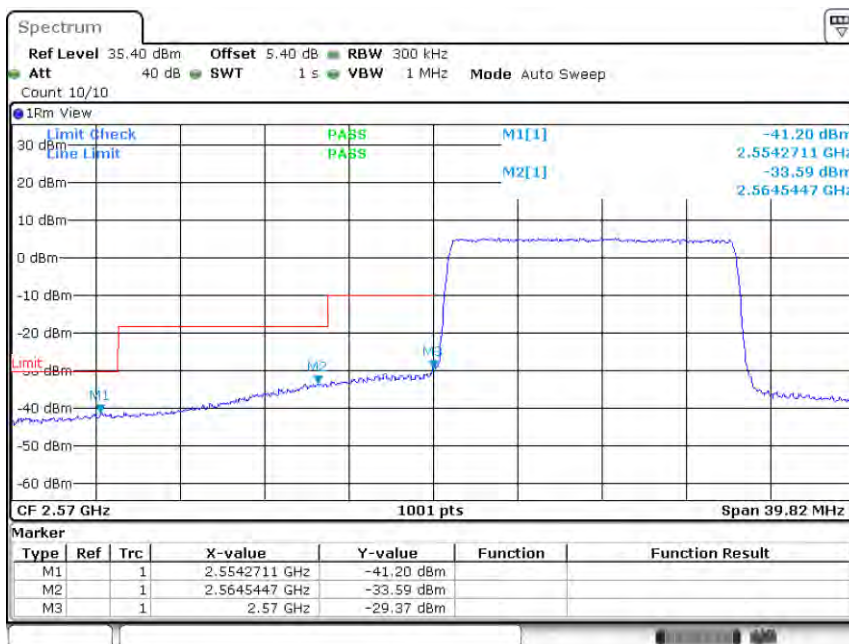


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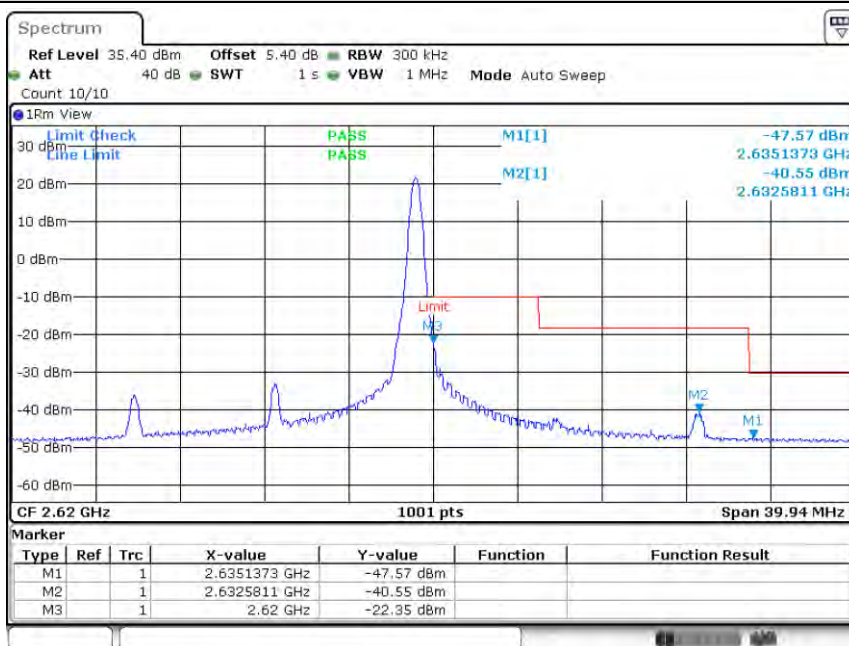


Band38-15MHz-64QAM-37825-75RB#0



Date: 15.AUG.2020 02:43:19

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



Date: 15.AUG.2020 02:42:51

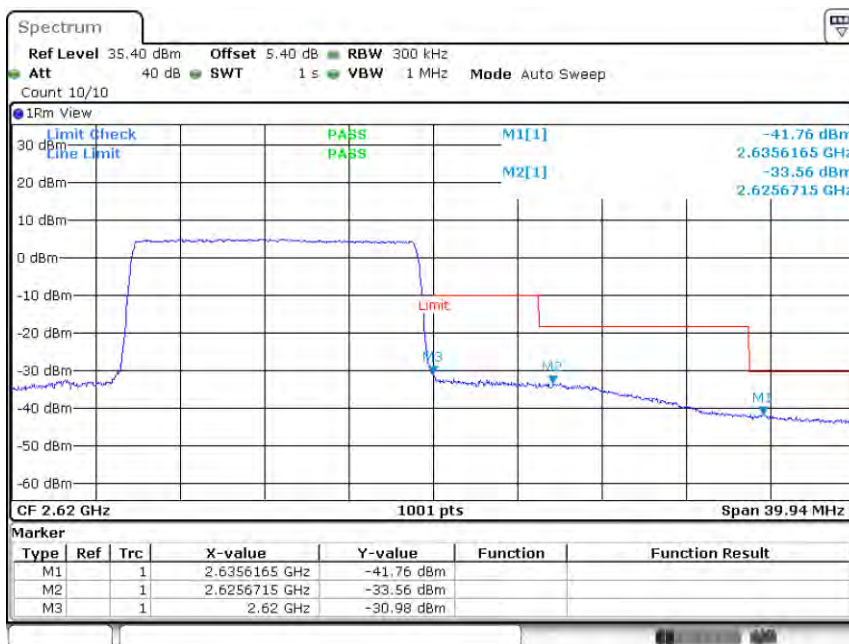


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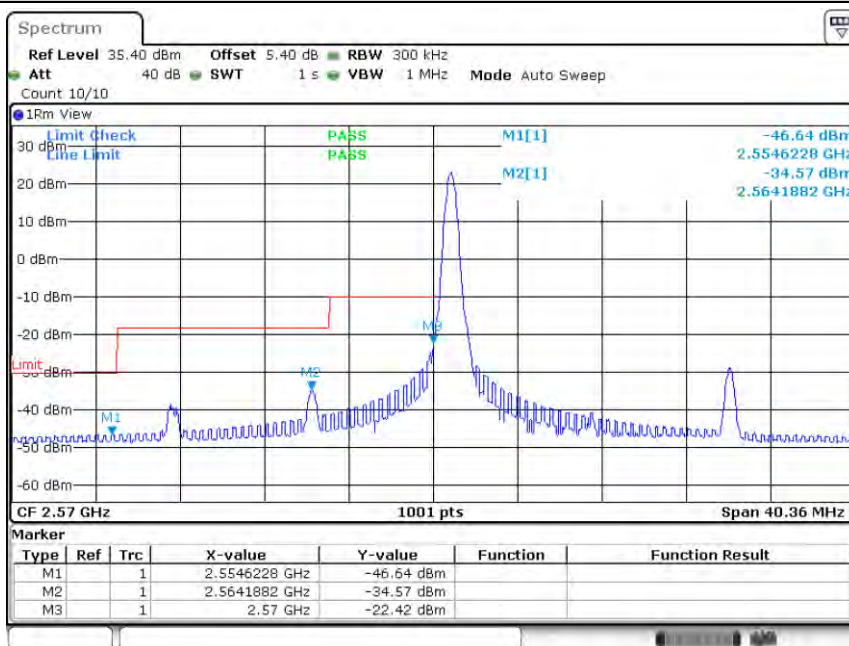


Band38-15MHz-64QAM-38175-75RB#0



Date: 15.AUG.2020 02:43:41

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

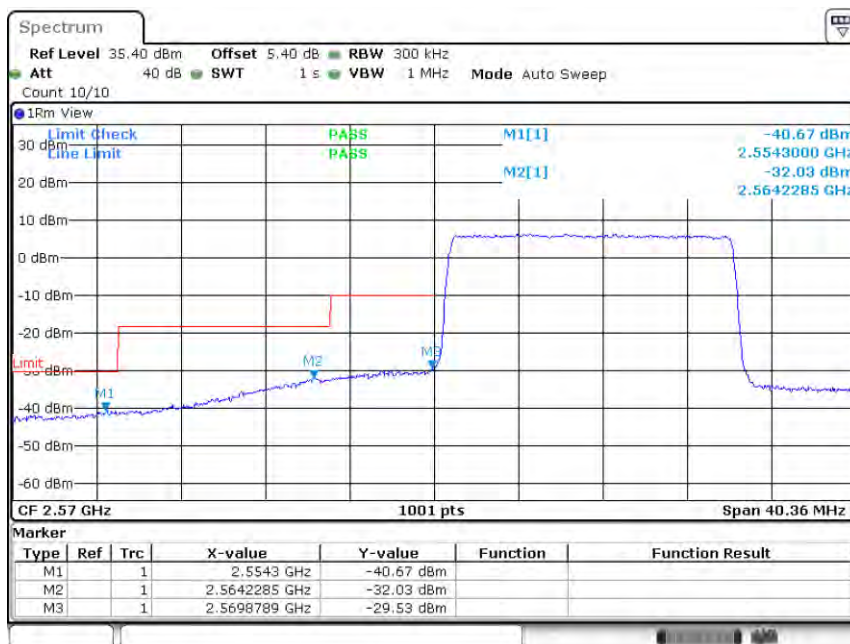


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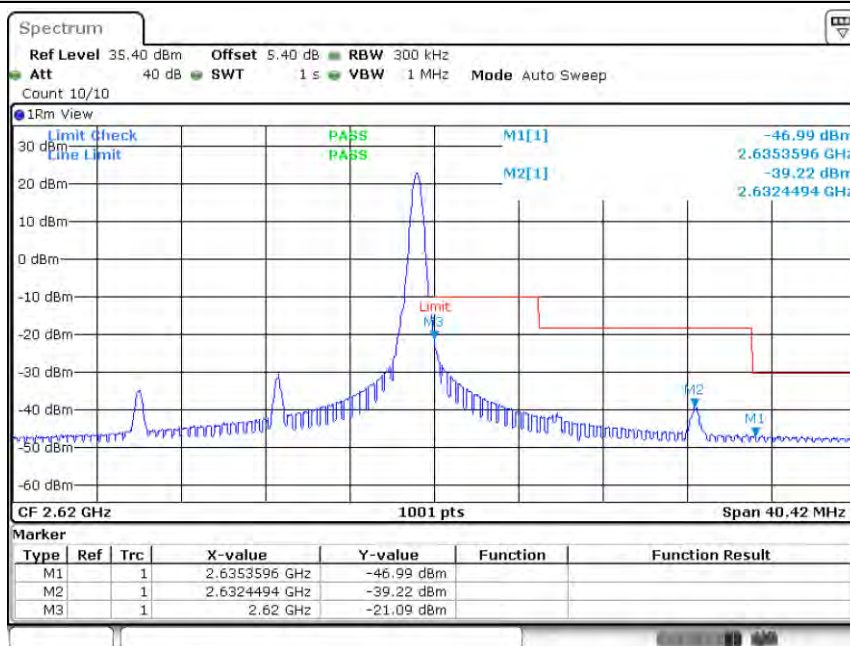


Band38-15MHz-16QAM-37825-75RB#0



Date: 15.AUG.2020 00:31:38

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



Date: 15.AUG.2020 00:30:50



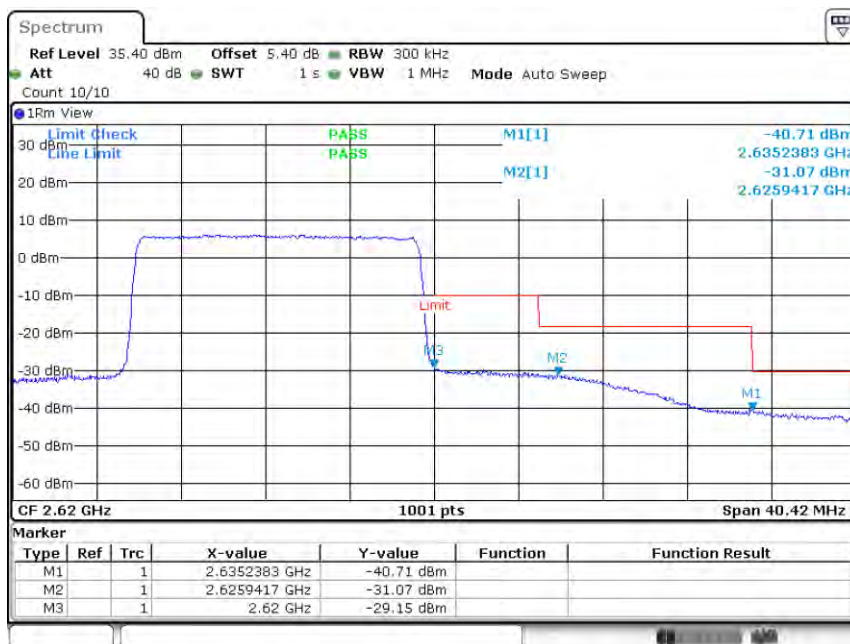
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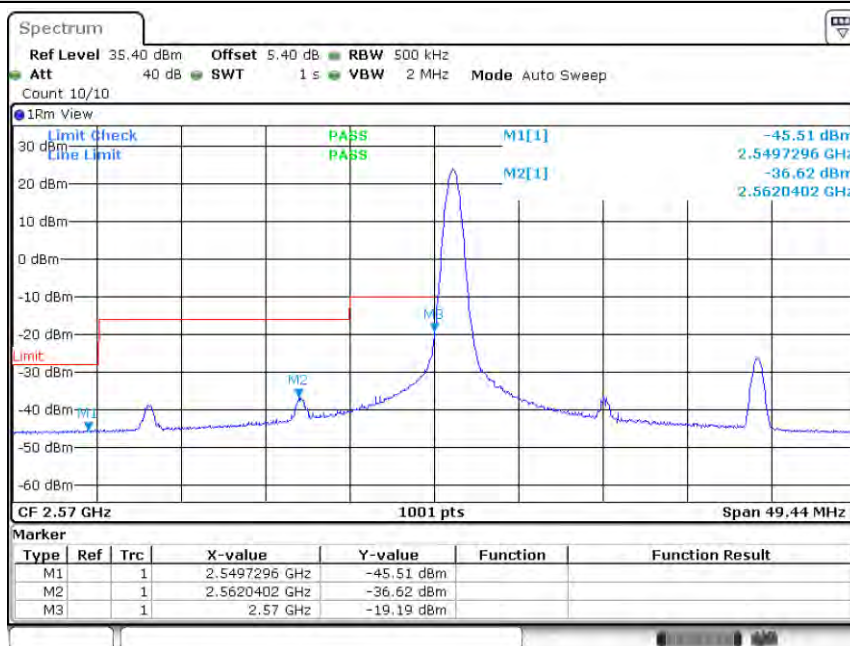
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Band38-15MHz-16QAM-38175-75RB#0



Date: 15 AUG 2020 00:32:22

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



Date: 15 AUG 2020 00:32:50



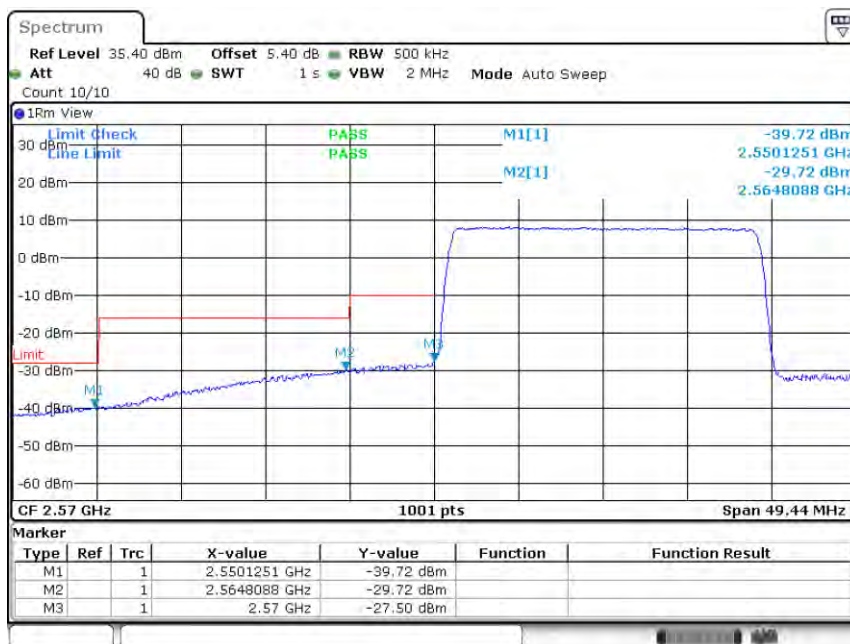
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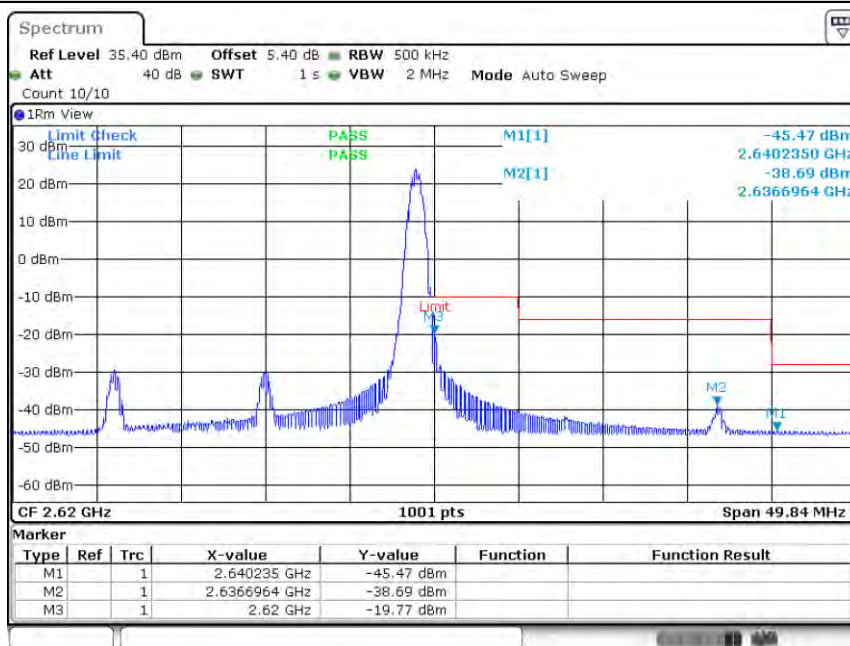


Band38-20MHz-QPSK-37850-100RB#0



Date: 15.AUG.2020 00:34:26

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



Date: 15.AUG.2020 00:33:38



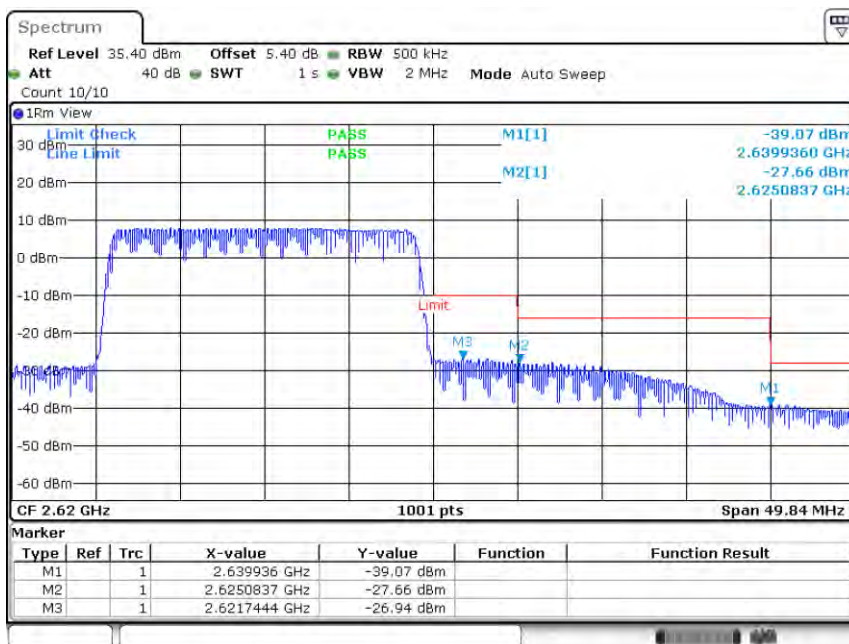
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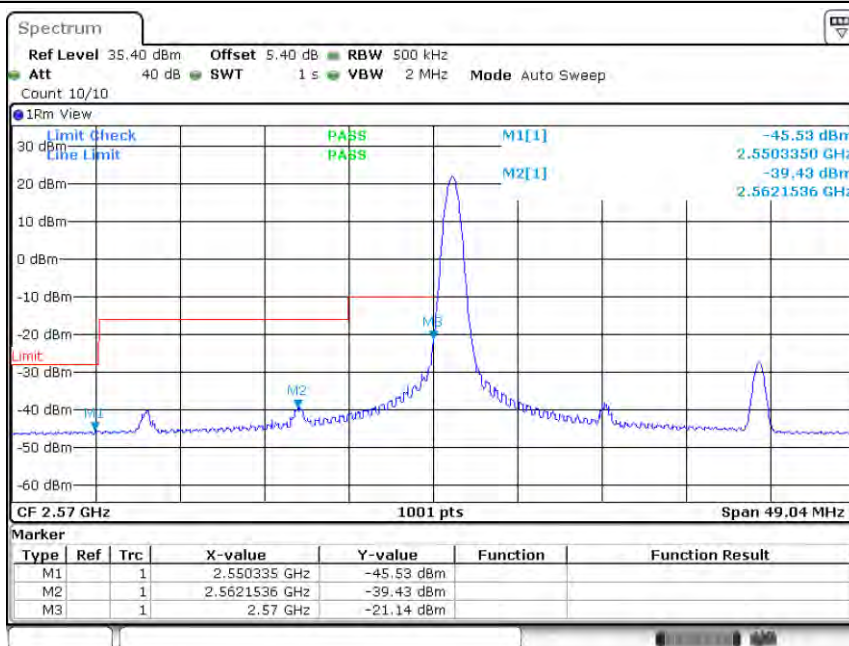
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Band38-20MHz-QPSK-38150-100RB#0



Date: 15.AUG.2020 00:35:09

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



Date: 15.AUG.2020 02:44:10

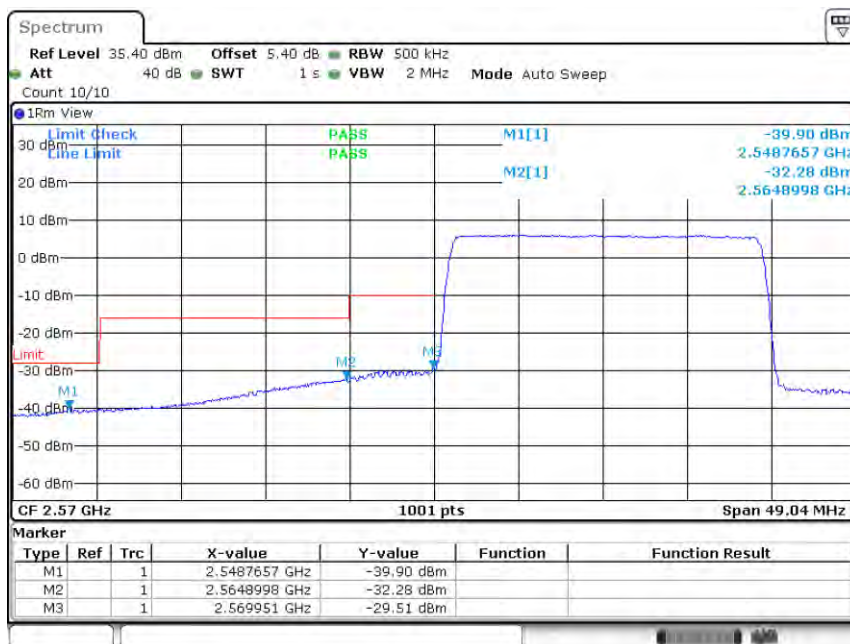


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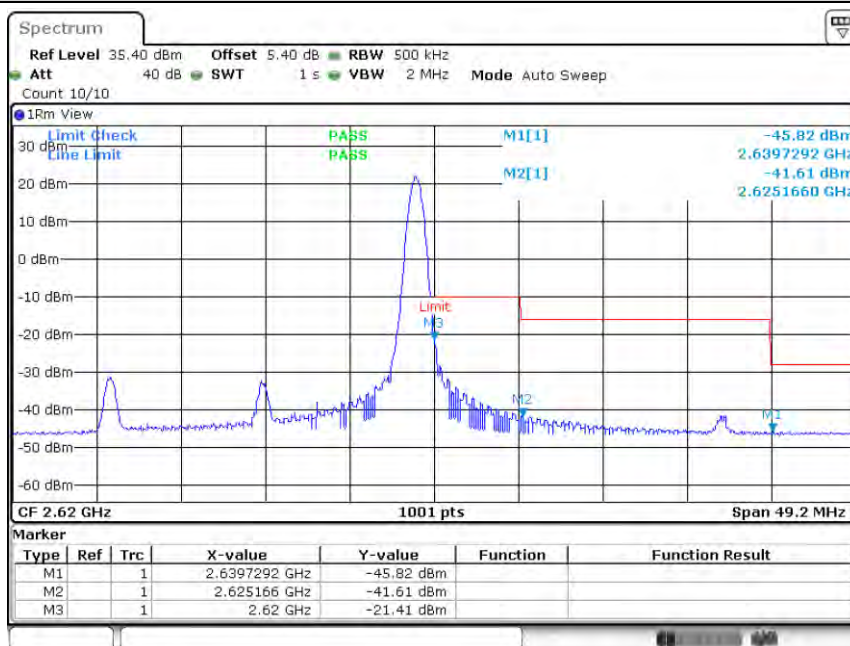


Band38-20MHz-64QAM-37850-100RB#0



Date: 15.AUG.2020 02:45:04

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



Date: 15.AUG.2020 02:44:37

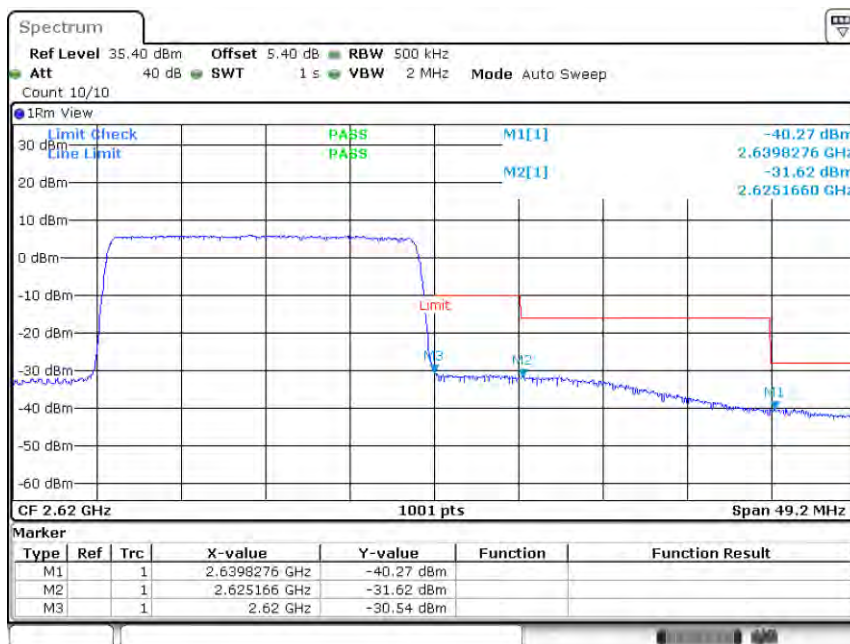


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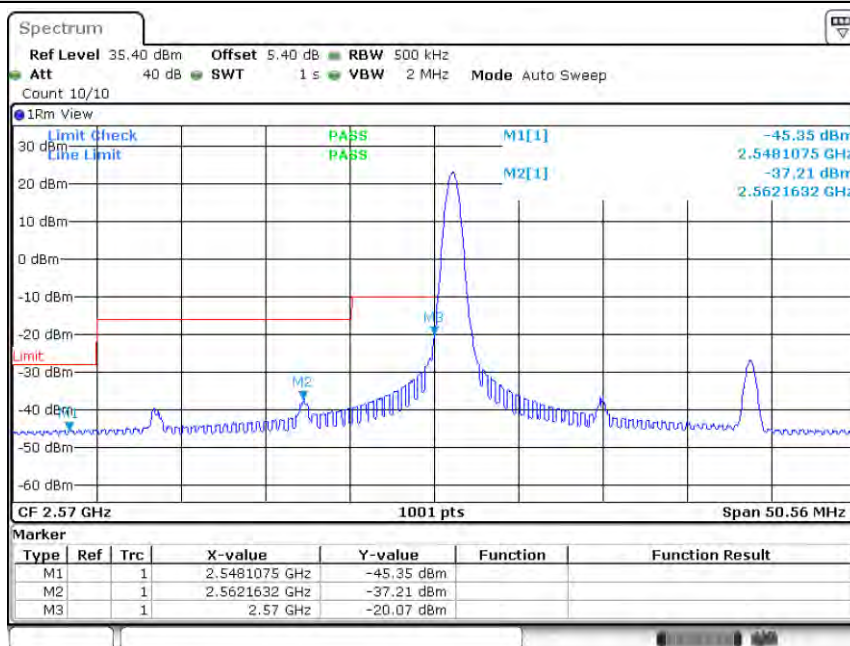


Band38-20MHz-64QAM-38150-100RB#0



Date: 15.AUG.2020 02:45:26

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



Date: 15.AUG.2020 00:33:12

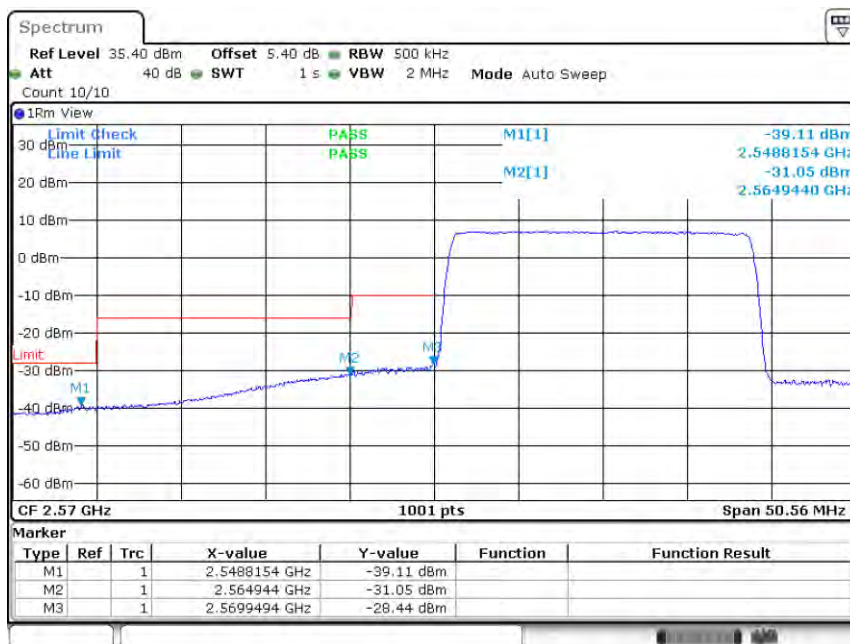


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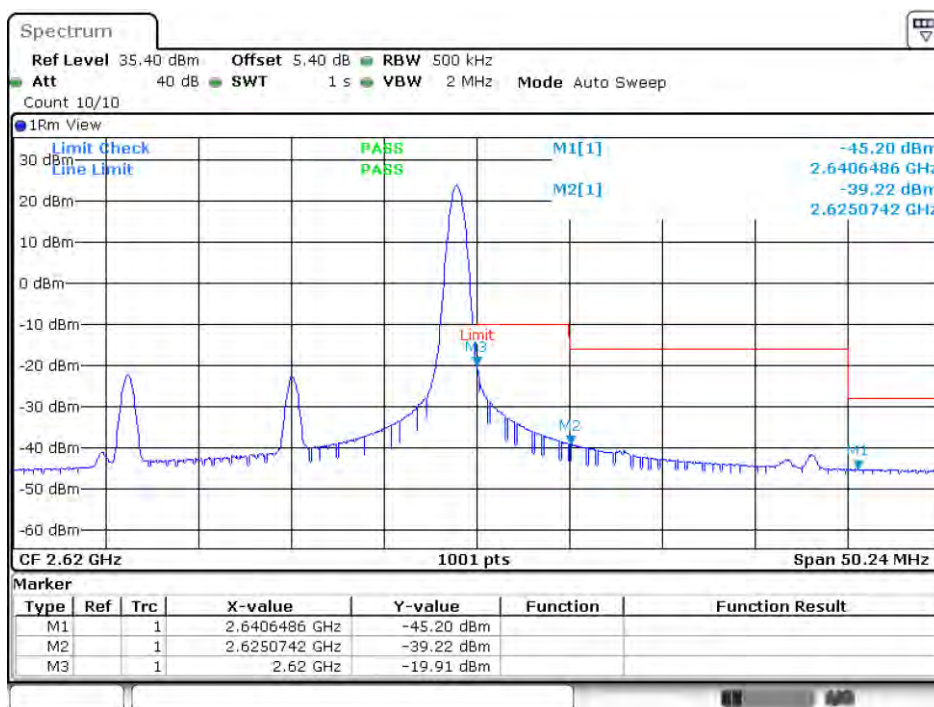


Band38-20MHz-16QAM-37850-100RB#0



Date: 15.AUG.2020 00:34:47

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



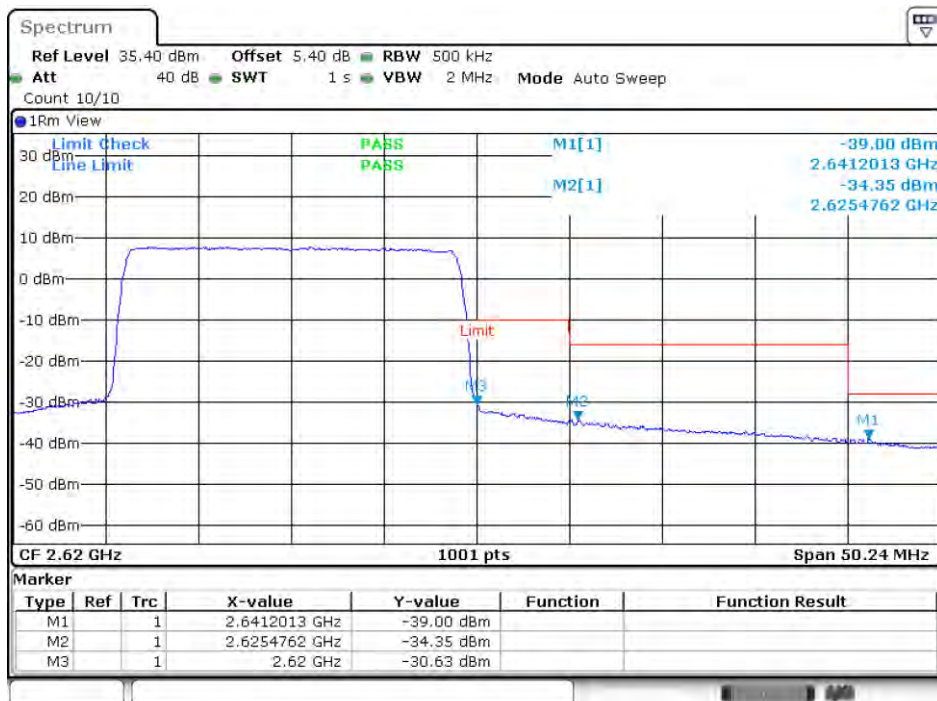
Date: 28.AUG.2020 10:45:18



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



Date: 28.AUG.2020 10:46:35



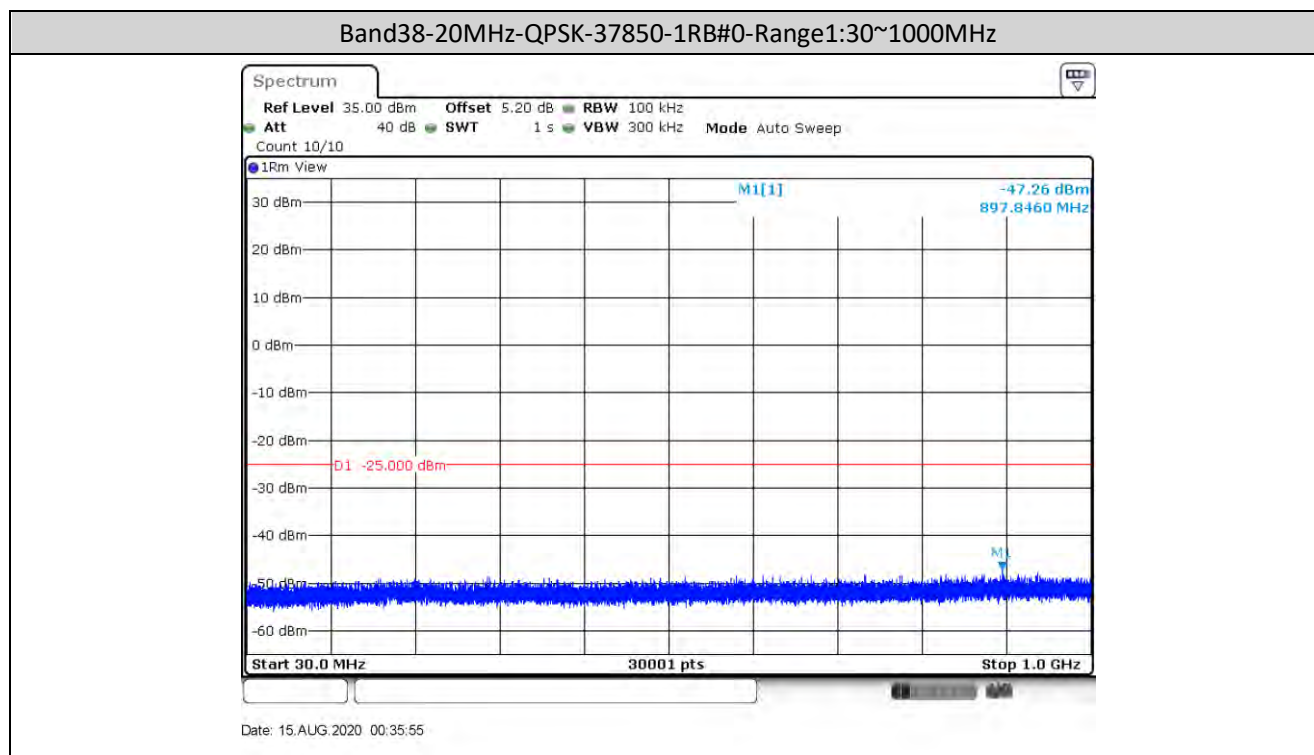


6. Spurious Emission at Antenna Terminal

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

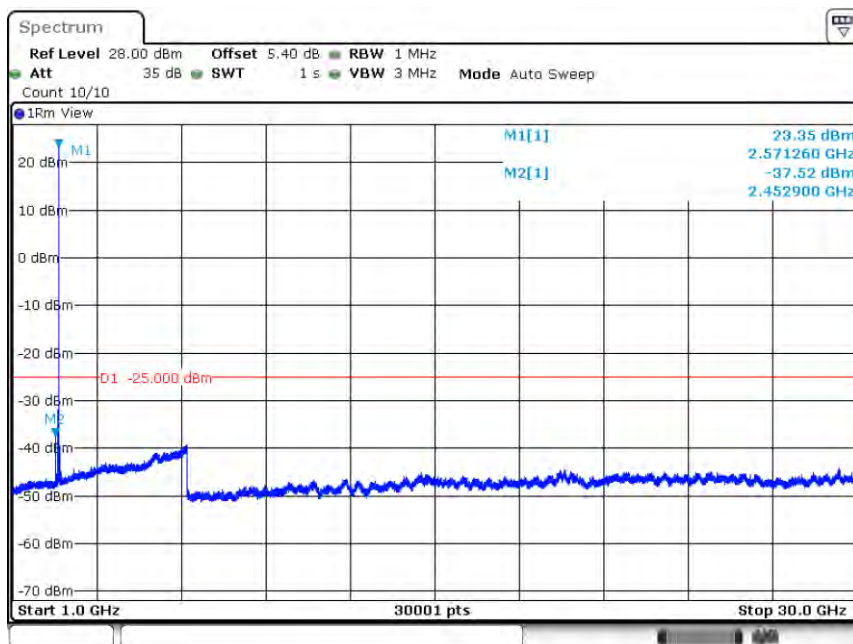
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



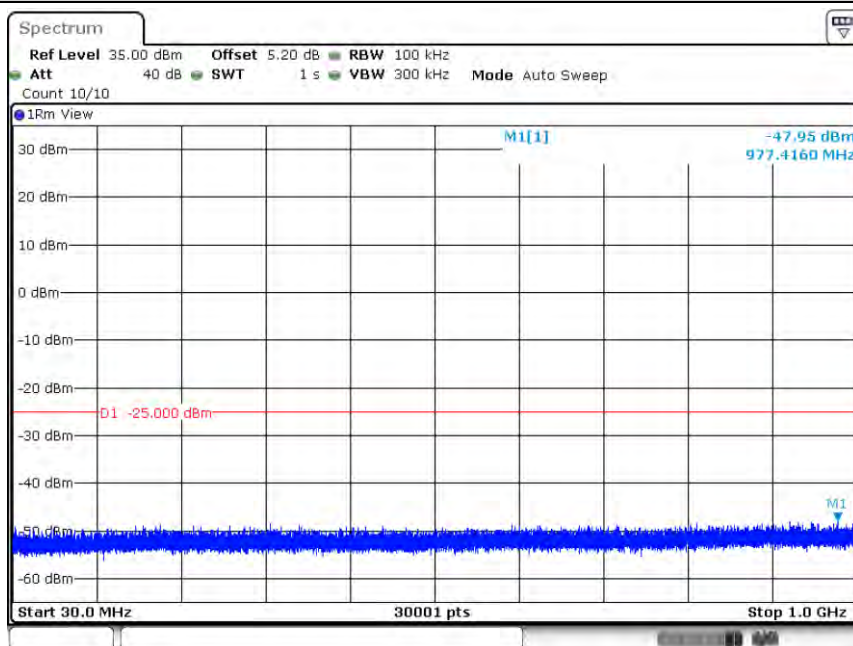


Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 00:36:11

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



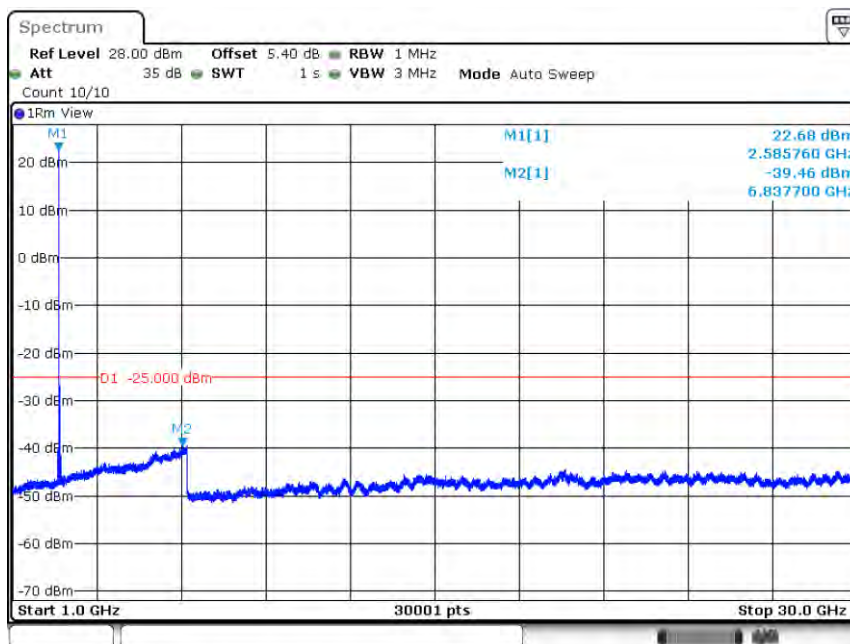
Date: 15.AUG.2020 00:37:06



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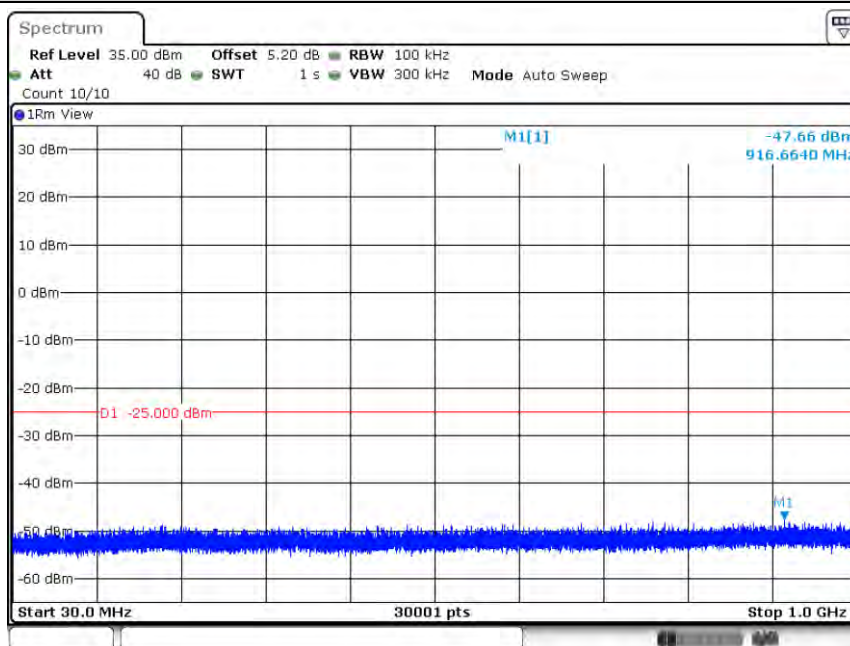
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Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 00:37:22

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



Date: 15.AUG.2020 00:38:17

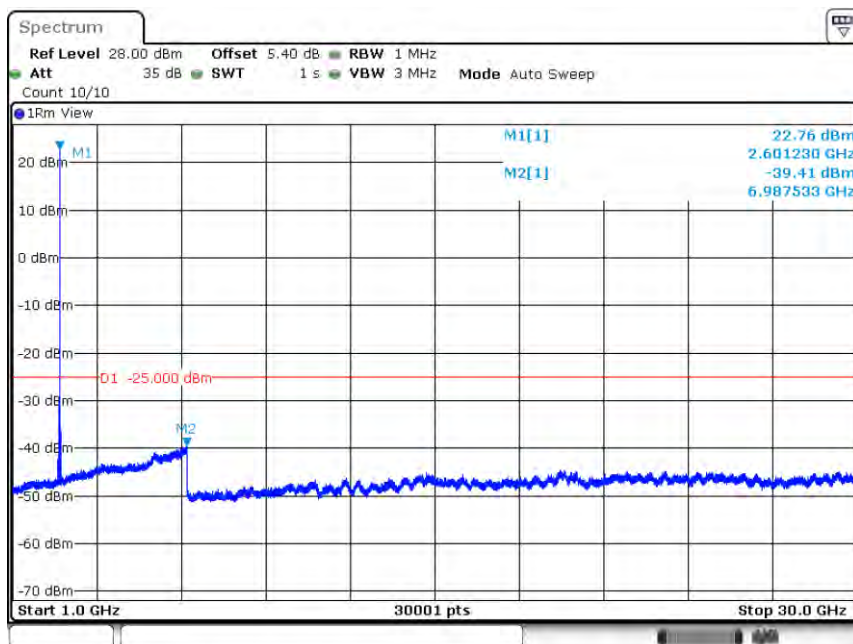


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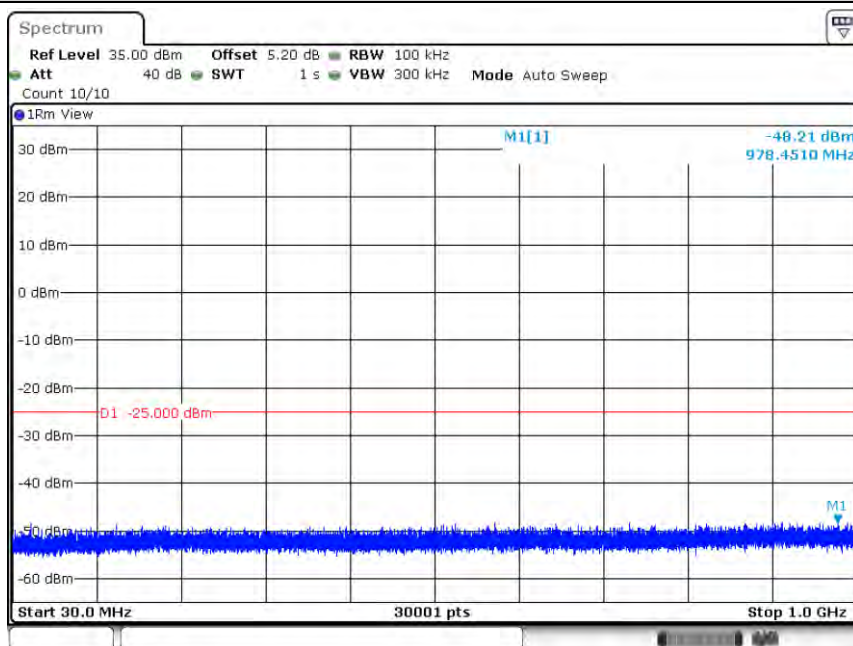


Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 00:38:33

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

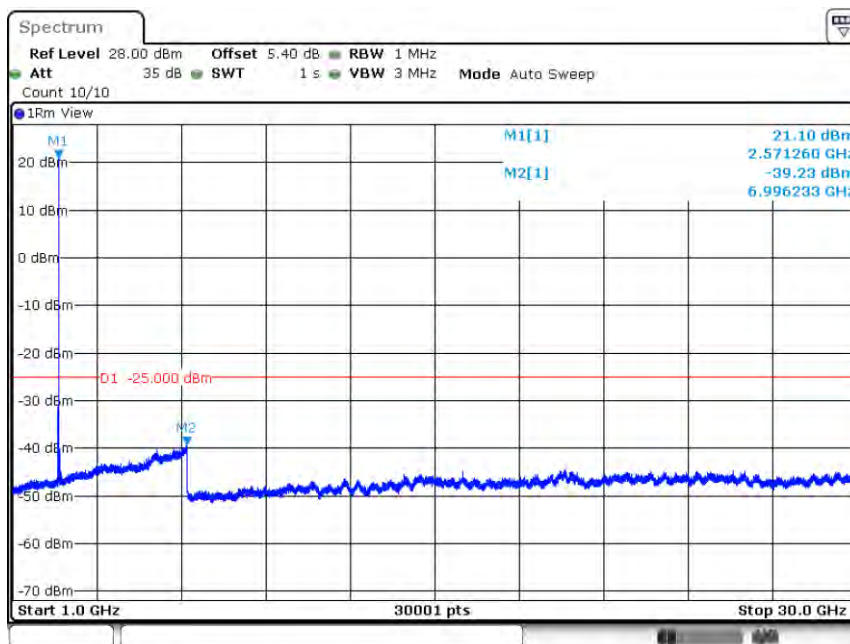


Date: 15.AUG.2020 02:45:50



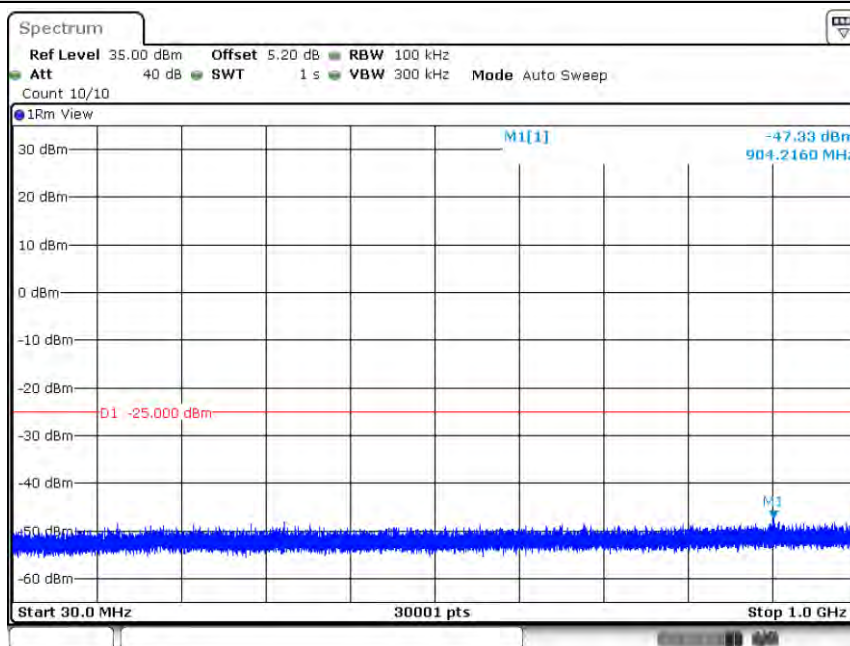


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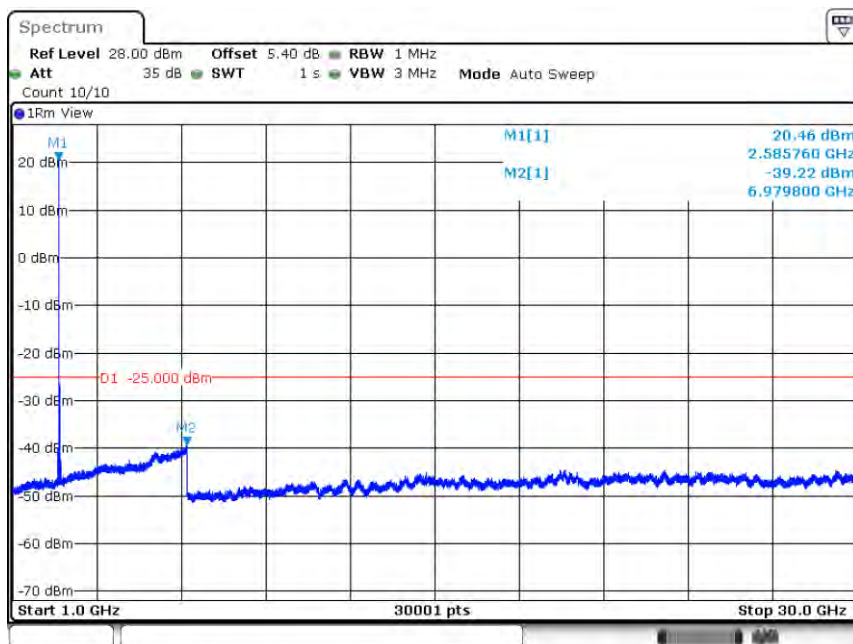
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Date: 15.AUG.2020 02:46:26

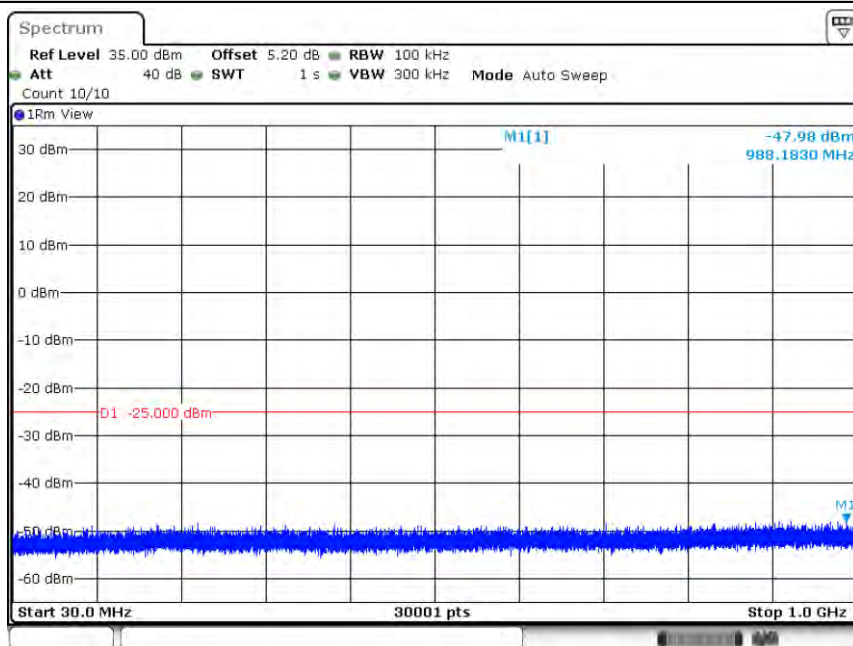


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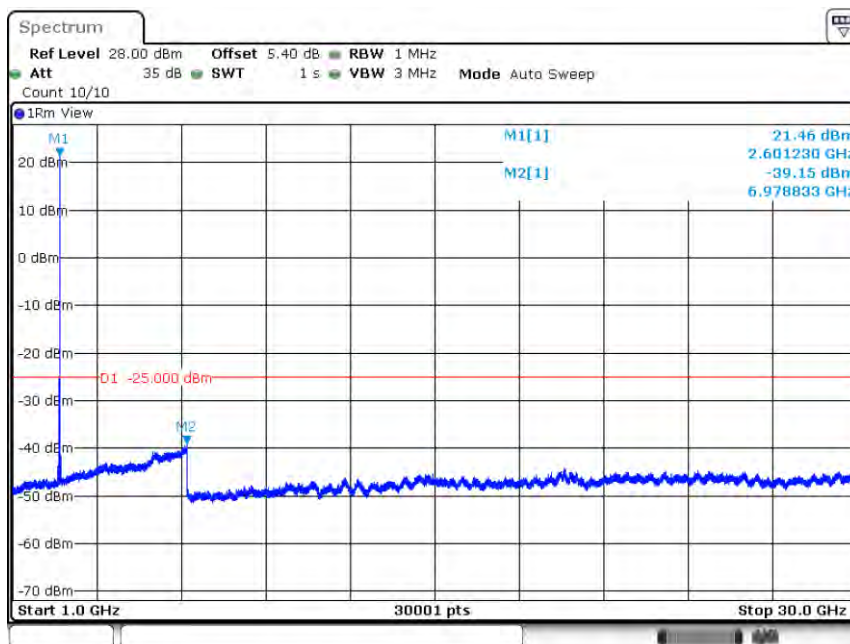
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Date: 15.AUG.2020 02:47:02

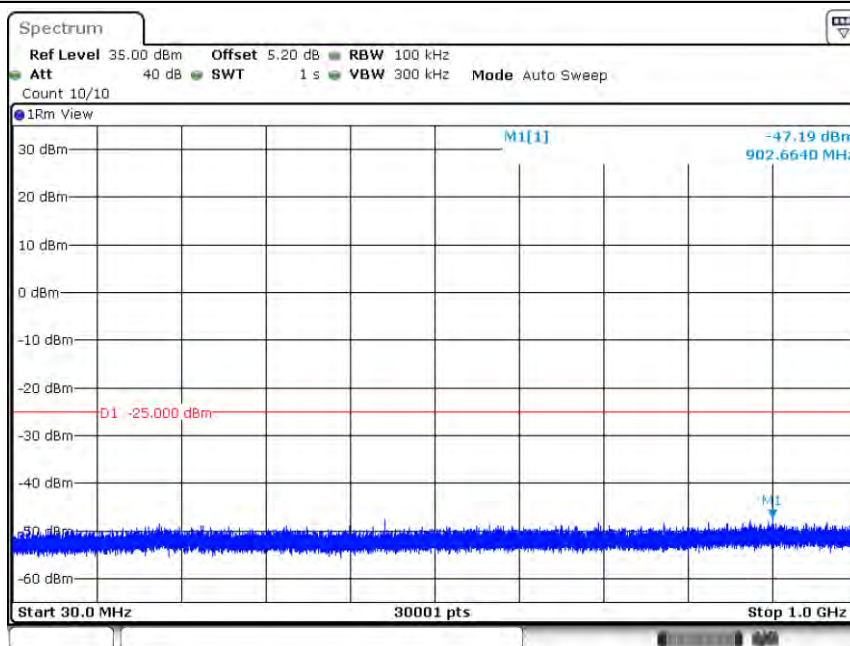


Band38-20MHz-64QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 02:47:18

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



Date: 15.AUG.2020 00:36:30



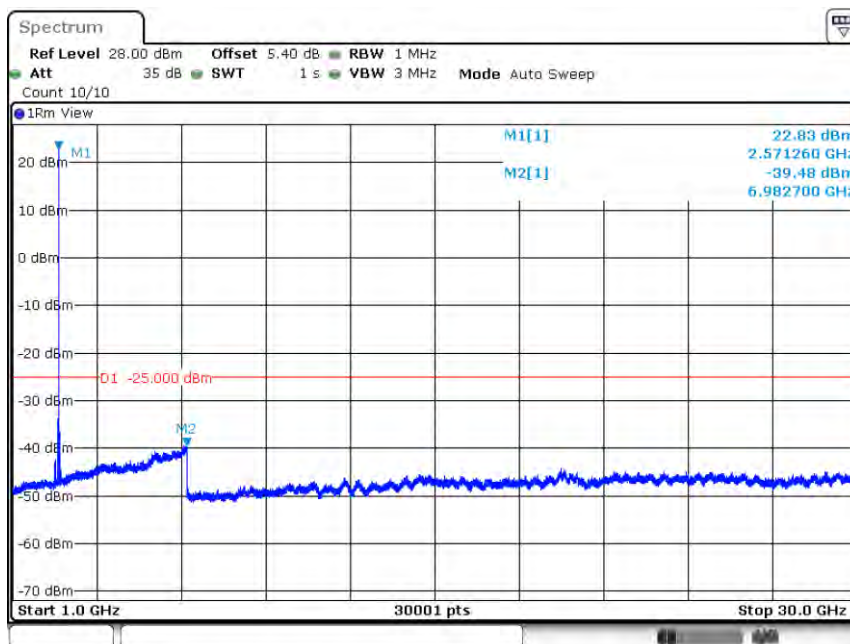
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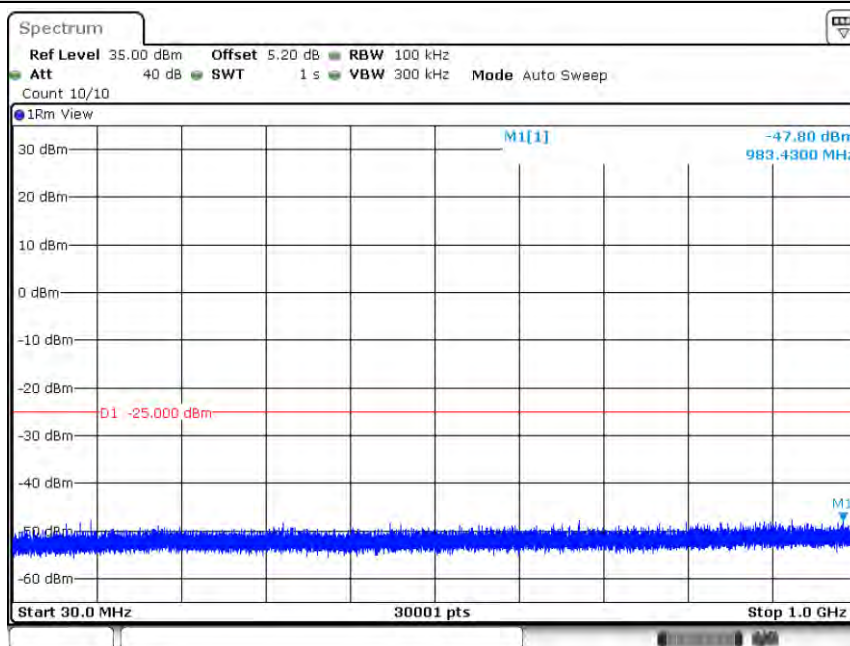


Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 15.AUG.2020 00:36:47

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



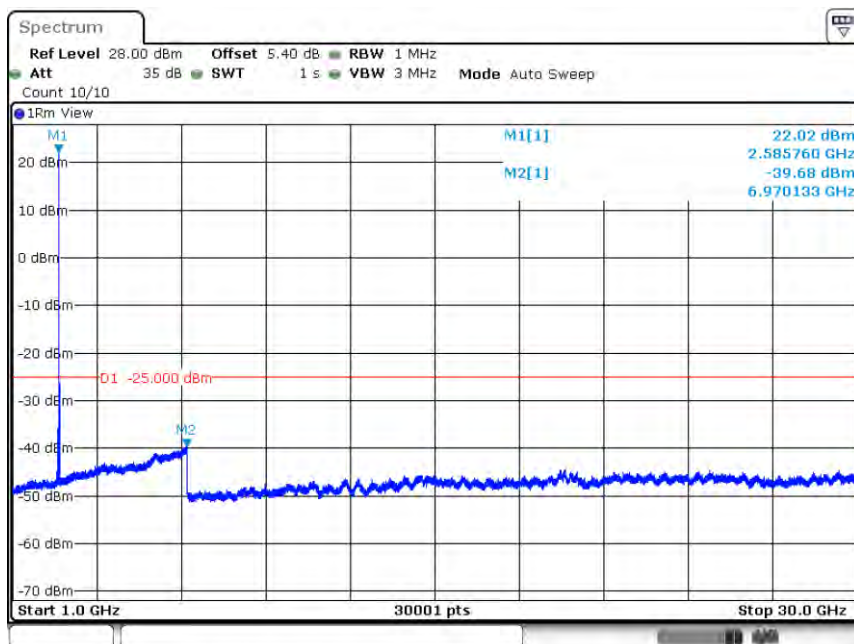
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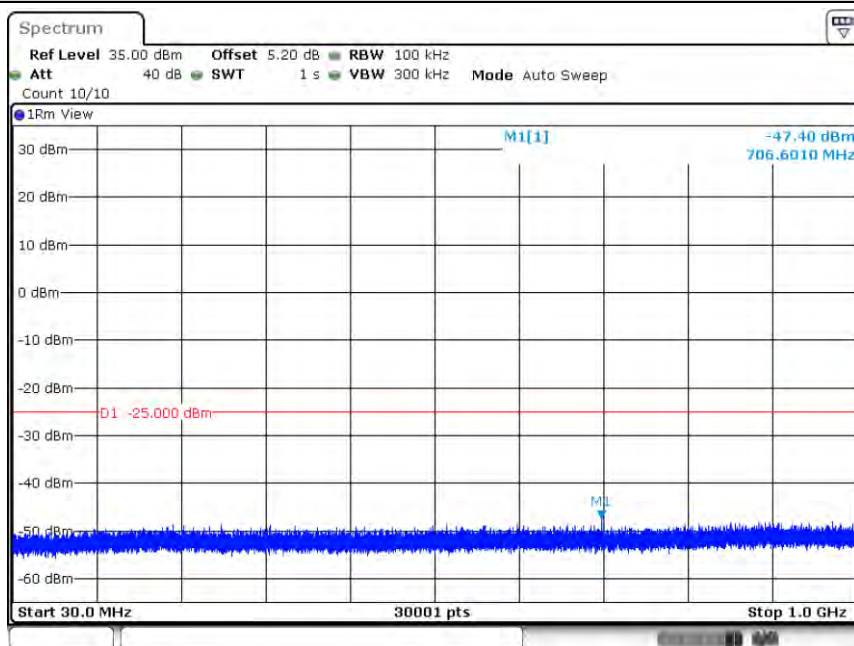
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Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 00:37:58

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



Date: 15 AUG 2020 00:38:52



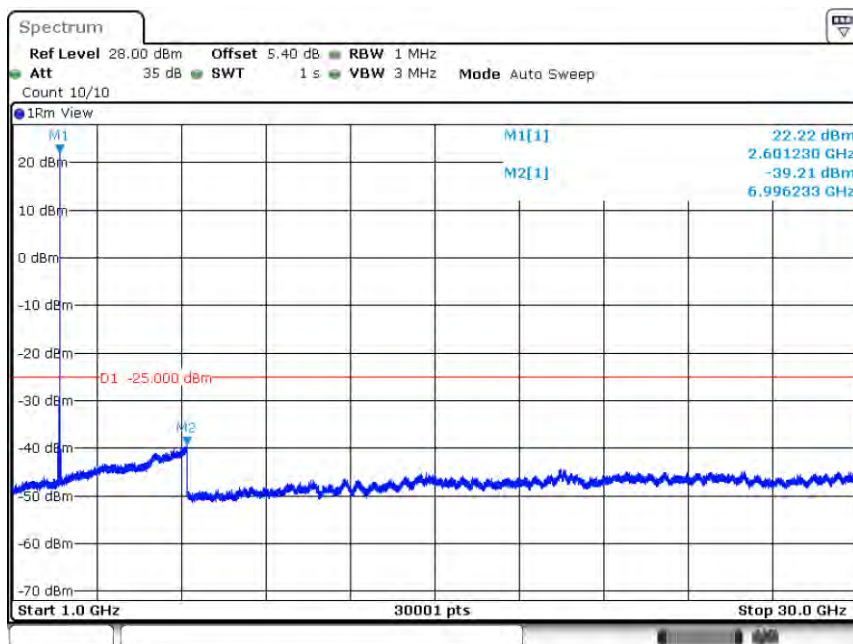
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Date: 15.AUG.2020 00:39:09



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz(Up Antenna)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
49.7405	-71.12	-25.00	46.12	222	296	Vertical
113.9092	-64.38	-25.00	39.38	271	5	Vertical
340.4640	-67.93	-25.00	42.93	245	296	Vertical
5142.0714	-52.97	-25.00	27.97	263	34	Vertical
9331.7111	-52.50	-25.00	27.50	247	245	Vertical
17995.9999	-39.97	-25.00	14.97	258	144	Vertical
39.5065	-64.65	-25.00	39.65	187	6	Horizontal
102.1716	-75.35	-25.00	50.35	165	121	Horizontal
241.5191	-68.62	-25.00	43.62	184	33	Horizontal
5142.0714	-54.90	-25.00	29.90	162	6	Horizontal
10393.2464	-52.74	-25.00	27.74	187	262	Horizontal
16394.9465	-43.84	-25.00	18.84	169	232	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
47.3154	-71.13	-25.00	46.13	241	0	Vertical
109.7865	-64.69	-25.00	39.69	258	244	Vertical
610.2830	-63.87	-25.00	38.87	271	20	Vertical
5172.0724	-53.04	-25.00	28.04	263	74	Vertical
10072.2357	-52.19	-25.00	27.19	288	0	Vertical
17996.9999	-40.28	-25.00	15.28	214	101	Vertical
41.3011	-63.71	-25.00	38.71	147	174	Horizontal
87.8149	-73.87	-25.00	48.87	165	10	Horizontal
229.0540	-68.07	-25.00	43.07	184	71	Horizontal
5172.0724	-54.17	-25.00	29.17	157	174	Horizontal
9320.2107	-52.54	-25.00	27.54	162	294	Horizontal
16400.4467	-44.06	-25.00	19.06	194	122	Horizontal





7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
46.9758	-73.66	-25.00	48.66	224	16	Vertical
111.1446	-64.83	-25.00	39.83	162	156	Vertical
287.6934	-68.92	-25.00	43.92	284	343	Vertical
5202.0734	-55.09	-25.00	30.09	247	77	Vertical
10590.7530	-51.21	-25.00	26.21	251	156	Vertical
17997.9999	-40.77	-25.00	15.77	236	216	Vertical
43.5807	-64.03	-25.00	39.03	198	189	Horizontal
108.8649	-75.81	-25.00	50.81	174	189	Horizontal
232.7401	-68.00	-25.00	43.00	162	2	Horizontal
5202.0734	-56.34	-25.00	31.34	187	160	Horizontal
9309.7103	-52.64	-25.00	27.64	165	71	Horizontal
16403.4468	-44.01	-25.00	19.01	184	2	Horizontal



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7.2. Test Mode =LTE/TM1 20MHz(Down Antenna)

7.2.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
111.6296	-65.64	-25.00	40.64	196	83	Vertical
563.0417	-66.23	-25.00	41.23	152	207	Vertical
1798.5597	-44.27	-25.00	19.27	262	345	Vertical
5142.0714	-53.10	-25.00	28.10	225	59	Vertical
14475.3825	-47.86	-25.00	22.86	261	83	Vertical
17992.9998	-40.42	-25.00	15.42	189	59	Vertical
43.2412	-63.60	-25.00	38.60	277	133	Horizontal
230.7030	-67.88	-25.00	42.88	112	232	Horizontal
1806.9614	-43.58	-25.00	18.58	125	360	Horizontal
5142.0714	-55.14	-25.00	30.14	185	10	Horizontal
12934.8312	-50.33	-25.00	25.33	196	108	Horizontal
16392.4464	-44.12	-25.00	19.12	206	182	Horizontal

7.2.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
116.3343	-65.30	-25.00	40.30	211	133	Vertical
617.3159	-63.99	-25.00	38.99	284	109	Vertical
1782.5565	-44.31	-25.00	19.31	296	304	Vertical
5172.0724	-54.17	-25.00	29.17	252	59	Vertical
14460.8820	-47.98	-25.00	22.98	205	34	Vertical
17996.4999	-40.57	-25.00	15.57	209	84	Vertical
41.9801	-63.70	-25.00	38.70	263	84	Horizontal
245.3508	-67.87	-25.00	42.87	222	133	Horizontal
1598.9198	-45.11	-25.00	20.11	188	259	Horizontal
5172.0724	-55.75	-25.00	30.75	169	208	Horizontal
12886.3295	-50.20	-25.00	25.20	152	59	Horizontal
16399.4466	-43.81	-25.00	18.81	111	158	Horizontal



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7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
109.0105	-66.06	-25.00	41.06	209	257	Vertical
508.2824	-65.35	-25.00	40.35	228	10	Vertical
1728.9458	-44.28	-25.00	19.28	261	138	Vertical
5202.0734	-55.17	-25.00	30.17	109	59	Vertical
14453.8818	-48.18	-25.00	23.18	111	307	Vertical
17996.4999	-40.63	-25.00	15.63	129	109	Vertical
46.9273	-64.39	-25.00	39.39	163	307	Horizontal
225.8043	-69.92	-25.00	44.92	111	331	Horizontal
1801.3603	-43.61	-25.00	18.61	185	80	Horizontal
5202.0734	-56.11	-25.00	31.11	169	208	Horizontal
12937.3312	-50.42	-25.00	25.42	184	307	Horizontal
16401.4467	-44.04	-25.00	19.04	206	208	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	-6.40	-0.002481	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-5.10	-0.001977	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-8.00	-0.003083	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-5.20	-0.002004	±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	-6.70	-0.002567	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-8.20	-0.003178	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-3.30	-0.001279	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-5.60	-0.002171	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-9.00	-0.003468	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-5.80	-0.002235	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-10.90	-0.004176	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-7.30	-0.002797	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-8.80	-0.003372	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-9.60	-0.003721	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-8.60	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-9.30	-0.003584	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-8.70	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-6.80	-0.002605	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-5.30	-0.002031	±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
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Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-9.20	-0.003566	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-4.60	-0.001783	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-6.40	-0.002481	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-7.50	-0.002907	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-6.30	-0.002442	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-5.50	-0.002132	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-8.40	-0.003256	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-6.10	-0.002351	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-10.20	-0.003931	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-2.70	-0.001040	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-5.60	-0.002158	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-2.70	-0.001040	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-5.90	-0.002274	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-6.70	-0.002582	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-9.20	-0.003525	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-8.00	-0.003065	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-5.90	-0.002261	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-7.20	-0.002759	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-8.10	-0.003103	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-8.10	-0.003140	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-5.90	-0.002287	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-7.20	-0.002791	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-9.50	-0.003682	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-7.80	-0.003023	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-5.00	-0.001927	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-10.10	-0.003892	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-9.60	-0.003699	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-7.00	-0.002697	±2.5	PASS



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Band38	20MHz	64QAM	38000	100RB#0	NV	40	-10.20	-0.003931	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-11.40	-0.004393	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-7.20	-0.002759	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-8.00	-0.003065	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-9.50	-0.003640	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-5.60	-0.002171	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-8.60	-0.003333	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	23.70	0.009186	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-6.60	-0.002558	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-6.80	-0.002636	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-6.00	-0.002326	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-6.70	-0.002597	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-9.10	-0.003507	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-3.80	-0.001464	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-8.80	-0.003391	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-8.00	-0.003083	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-7.40	-0.002852	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-8.10	-0.003121	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-8.00	-0.003083	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-6.10	-0.002337	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-5.80	-0.002222	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-5.00	-0.001916	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-8.50	-0.003257	±2.5	PASS



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