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Appendix B.15

LTE Band 38



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.04	24.14	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.57	24.67	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.68	24.78	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.43	23.53	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.72	24.82	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.36	24.46	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.50	24.6	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.50	23.6	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.80	24.9	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.49	24.59	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.46	24.56	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.52	23.62	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.53	23.63	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.34	23.44	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.59	23.69	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.46	22.56	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.90	24	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.91	24.01	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.64	23.74	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.65	22.75	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.77	23.87	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.50	23.6	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.59	23.69	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.56	22.66	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.44	22.54	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.23	22.33	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.31	22.41	33	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.74	21.84	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.55	22.65	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.54	22.64	33	PASS



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Band38	5MHz	64QAM	38000	1RB#24	21.88	22.98	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.91	22.01	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.52	22.62	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.54	22.64	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.46	22.56	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.65	21.75	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.88	24.98	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.51	24.61	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.81	23.91	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.55	23.65	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.92	25.02	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	24.17	25.27	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.70	24.8	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.60	23.7	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.48	24.58	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	24.32	25.42	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.87	24.97	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.62	23.72	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.60	23.7	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.68	23.78	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.83	23.93	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.61	22.71	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.82	23.92	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	23.13	24.23	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.78	23.88	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.59	22.69	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.92	24.02	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.88	23.98	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	23.29	24.39	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.52	22.62	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.64	22.74	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.47	22.57	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	22.04	23.14	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.70	21.8	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.84	22.94	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.54	22.64	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.89	22.99	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.79	21.89	33	PASS



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Band38	10MHz	64QAM	38200	1RB#0	21.93	23.03	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.50	22.6	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.58	22.68	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	21.09	22.19	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.90	25	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.55	24.65	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.89	24.99	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.50	23.6	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.80	24.9	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.28	24.38	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.85	24.95	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.49	23.59	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.67	24.77	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.44	24.54	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.75	24.85	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.47	23.57	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.03	24.13	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.59	23.69	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	23.11	24.21	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.55	22.65	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.99	24.09	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.75	23.85	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.97	24.07	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.45	22.55	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.89	23.99	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.53	23.63	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.95	24.05	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.43	22.53	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.79	22.89	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.28	22.38	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.93	23.03	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.76	21.86	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.58	22.68	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.38	22.48	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.73	22.83	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.69	21.79	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.46	22.56	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.34	22.44	33	PASS



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Band38	15MHz	64QAM	38175	1RB#74	21.69	22.79	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.65	21.75	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.60	24.7	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.59	24.69	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.80	24.9	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.62	23.72	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.47	24.57	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.34	24.44	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.75	24.85	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.54	23.64	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.73	24.83	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.71	24.81	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.79	24.89	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.47	23.57	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.80	23.9	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.74	23.84	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.95	24.05	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.77	22.87	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.70	23.8	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.75	23.85	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.81	23.91	33	PASS
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Band38	20MHz	16QAM	38150	1RB#99	22.90	24	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.57	22.67	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.58	22.68	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.49	22.59	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.64	22.74	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.92	22.02	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.53	22.63	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.41	22.51	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.69	22.79	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.86	21.96	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.58	22.68	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.41	22.51	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.62	22.72	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.69	21.79	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	6.46	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	6.52	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	6.70	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	7.28	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	7.62	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	7.80	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	7.80	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	7.94	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.06	13	PASS



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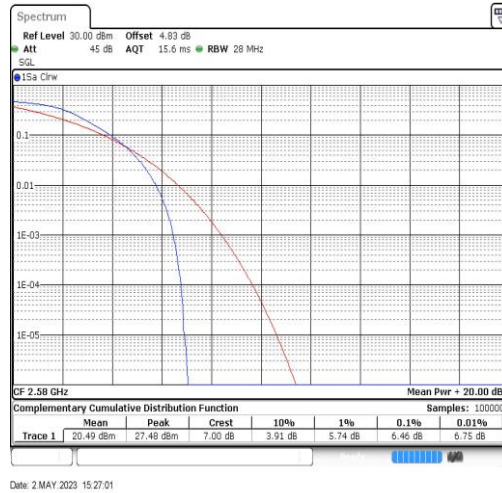
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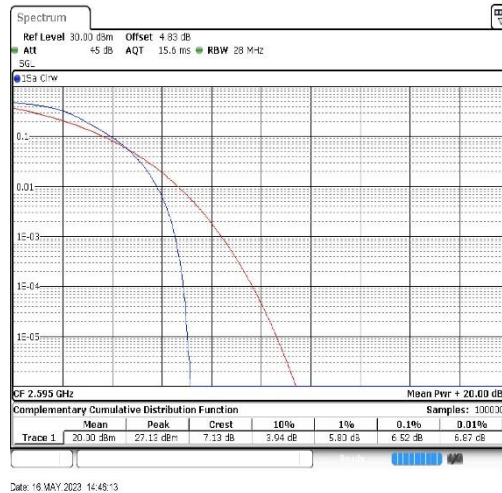
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Test Graphs



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



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

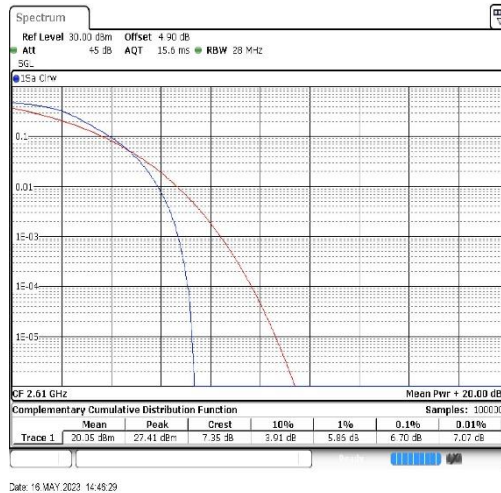


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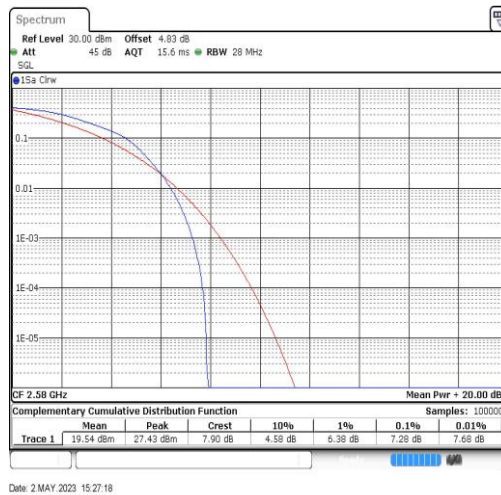
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Band38-20MHz-QPSK-38150-100RB#0



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



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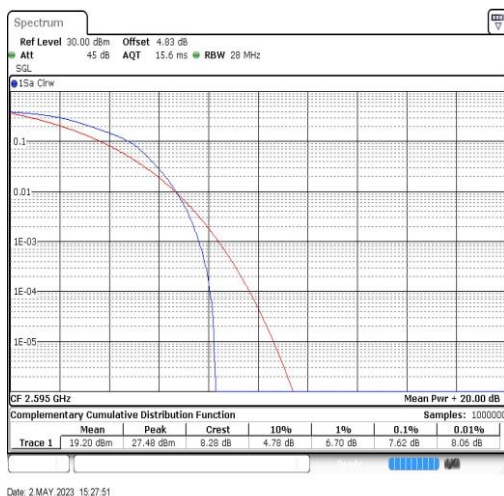
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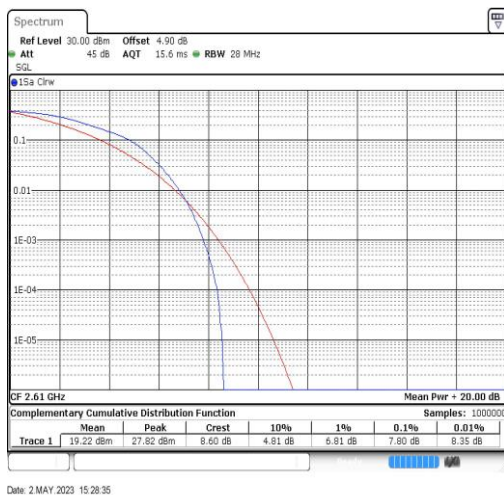
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Band38-20MHz-16QAM-38150-100RB#0



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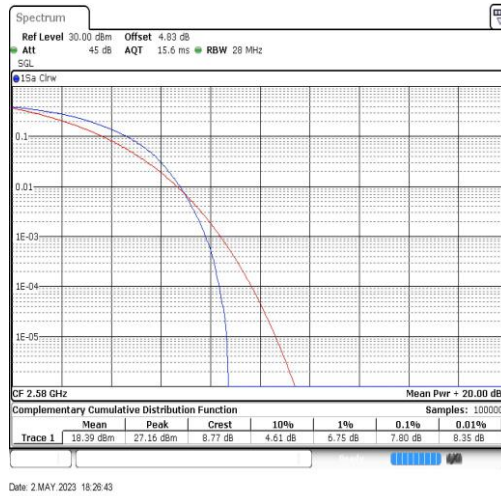
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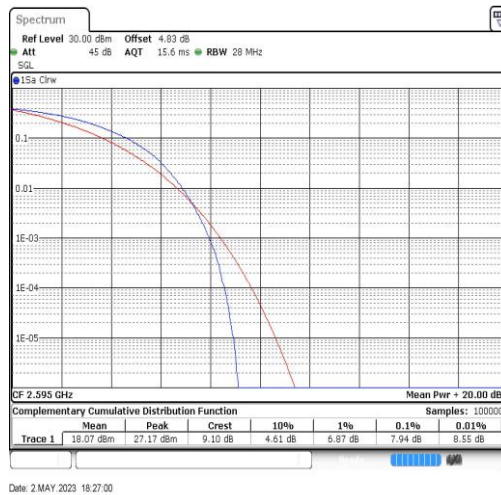
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Band38-20MHz-64QAM-37850-100RB#0



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



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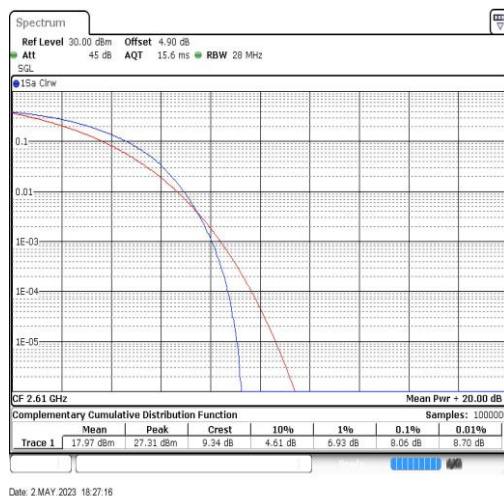
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#0	PASS	PASS



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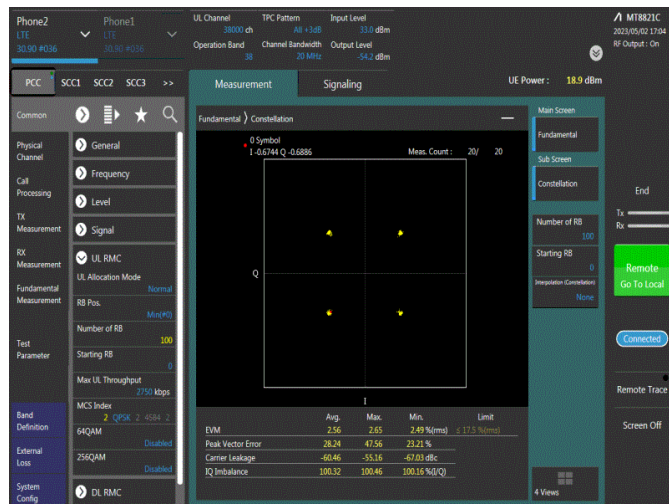
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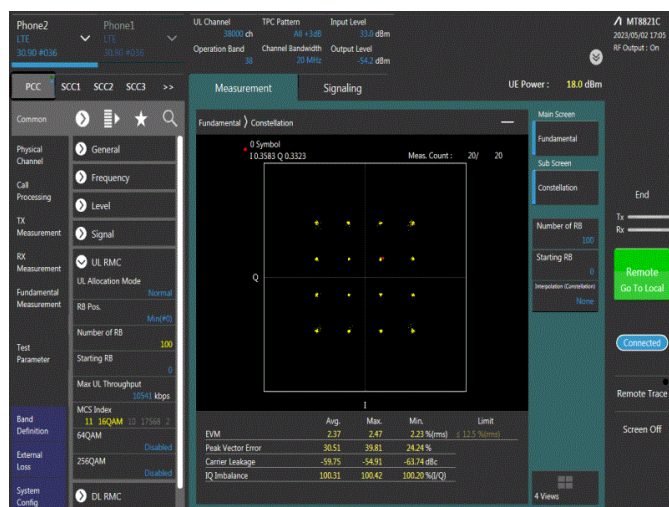
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Test Graphs



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



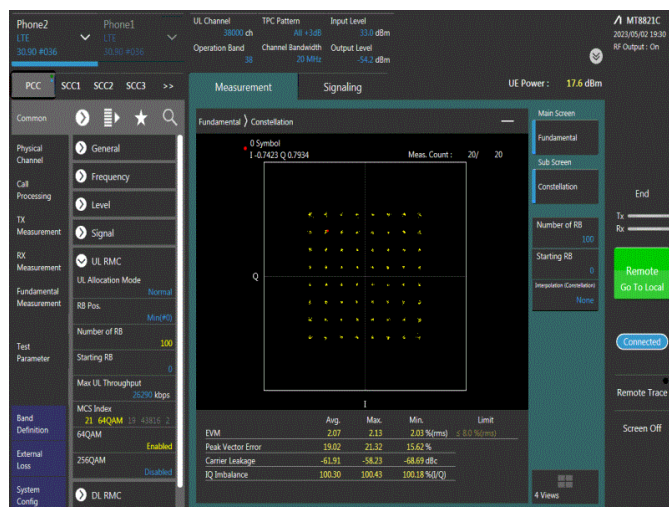
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.476	4.89	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.90	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.90	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.466	4.92	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.466	4.93	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.466	4.93	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.466	5.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.476	5.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.476	4.97	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.931	9.76	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.931	9.74	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.931	9.72	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.66	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.64	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.60	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.64	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.66	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.58	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	15.42	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.487	15.24	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	15.51	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.75	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.516	15.30	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	15.63	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	14.88	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.457	14.82	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.457	14.85	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	19.36	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.902	19.36	PASS



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Band38	20MHz	QPSK	38150	100RB#0	17.902	19.40	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.12	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.862	19.76	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.72	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.862	19.56	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.862	19.56	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.862	19.40	PASS



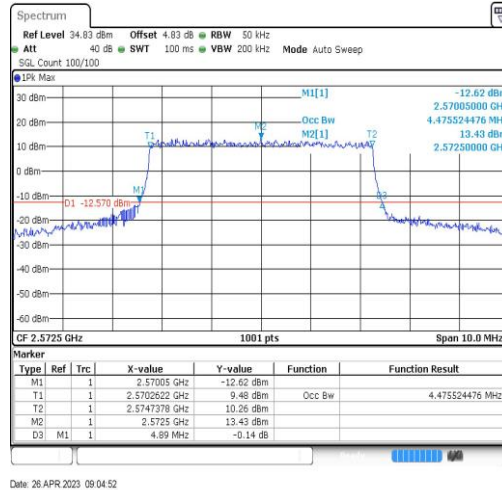
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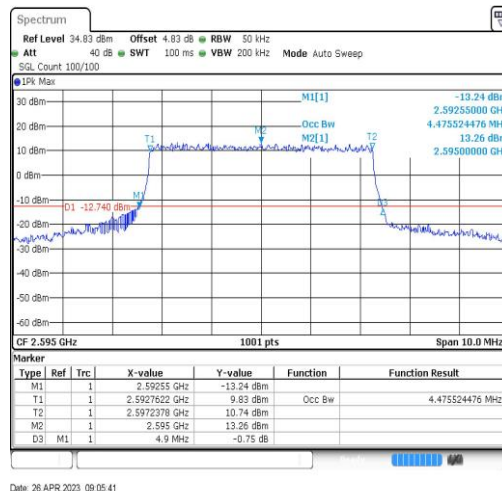
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Test Graphs



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



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

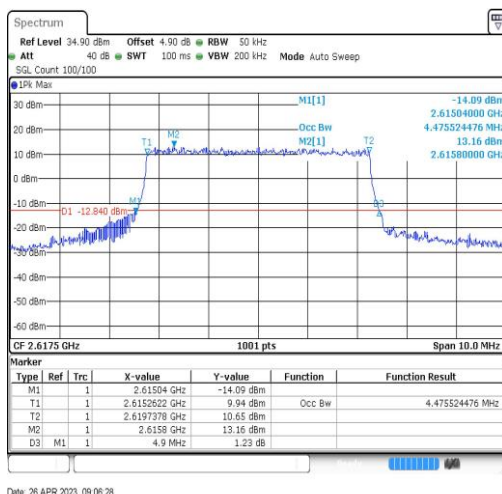




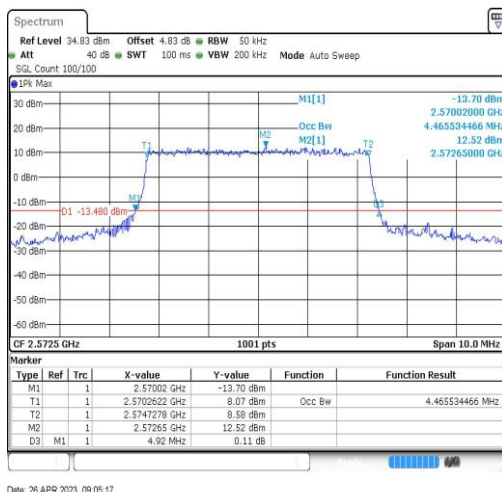
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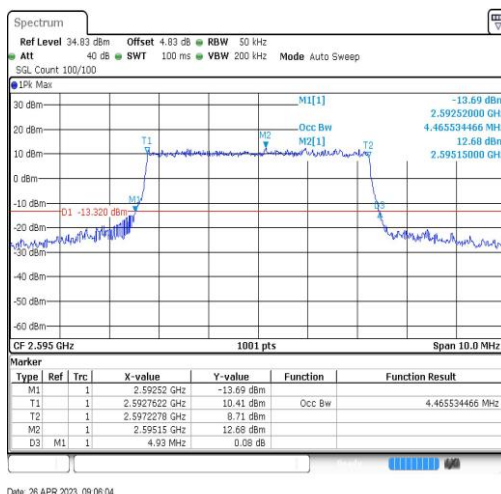
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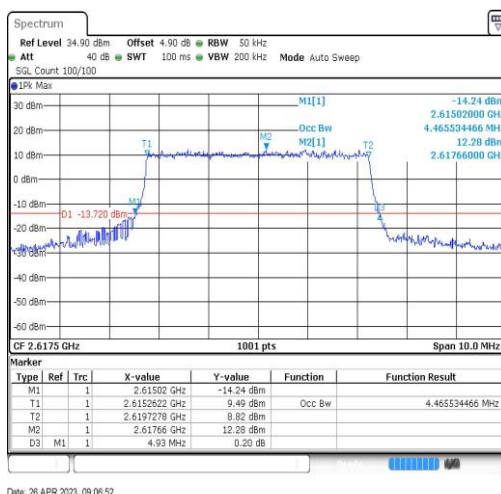
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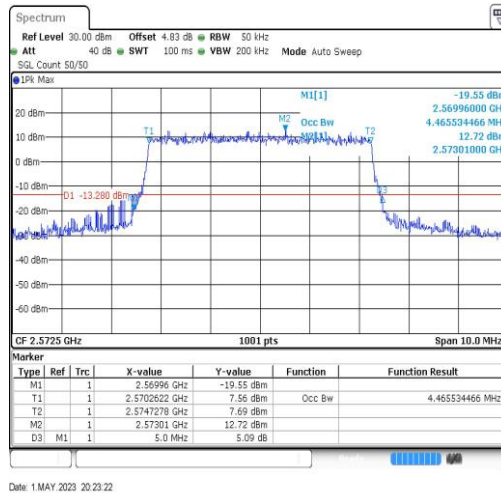


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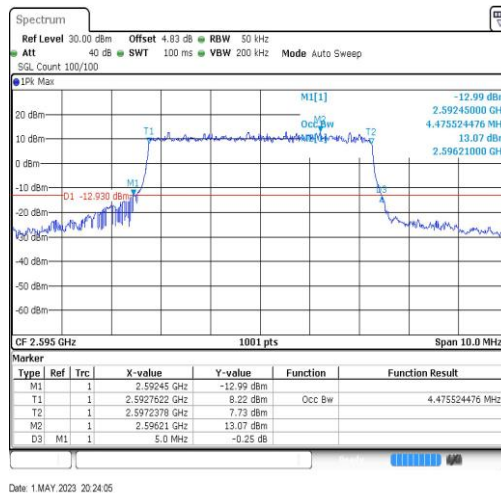


Band38-5MHz-16QAM-38225-25RB#0-4.466





Band38-5MHz-64QAM-37775-25RB#0-4.466



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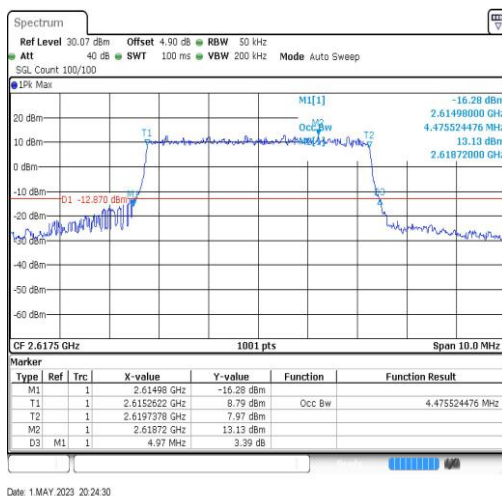




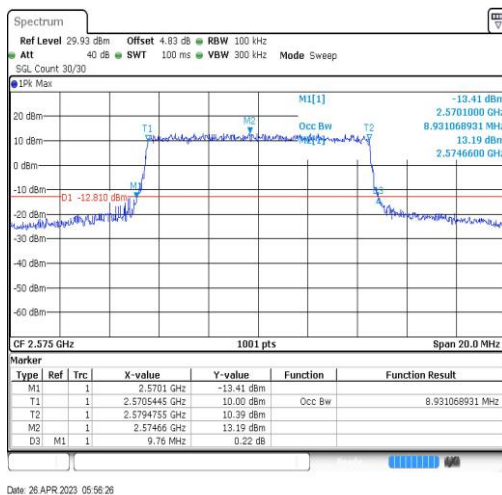
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Band38-10MHz-QPSK-37800-50RB#0-8.931



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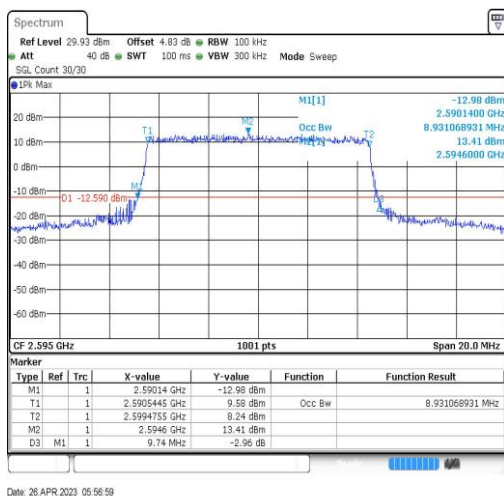
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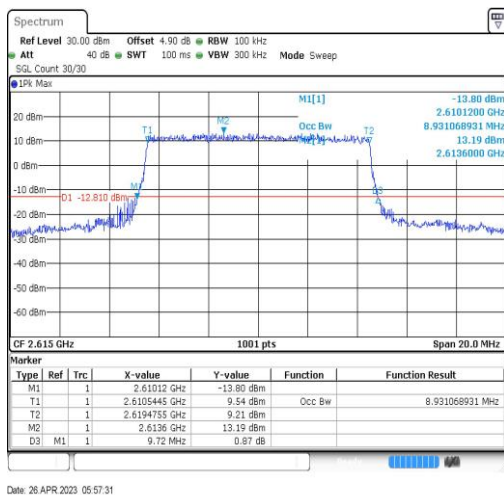
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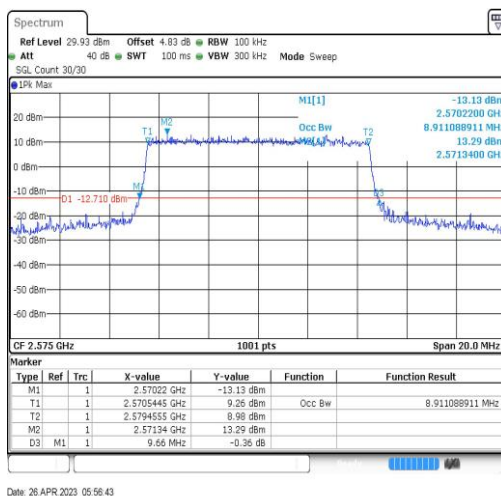
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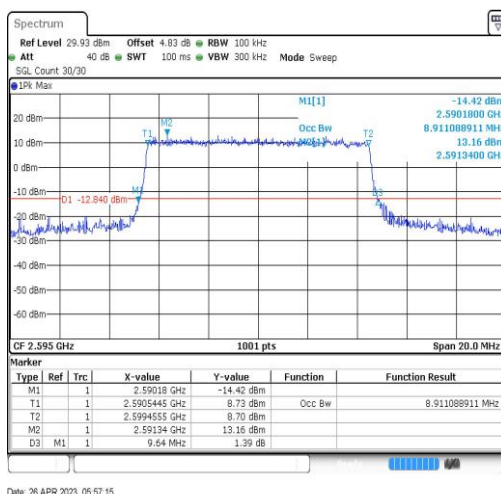
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Band38-10MHz-16QAM-37800-50RB#0-8.911



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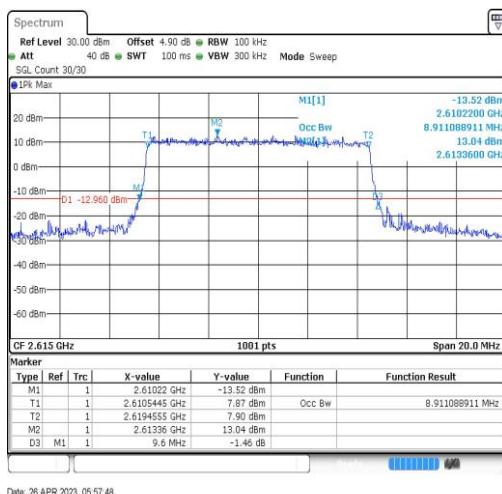




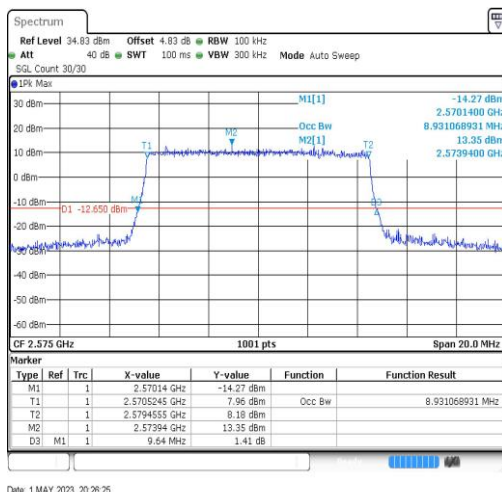
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Band38-10MHz-16QAM-38200-50RB#0-8.911



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



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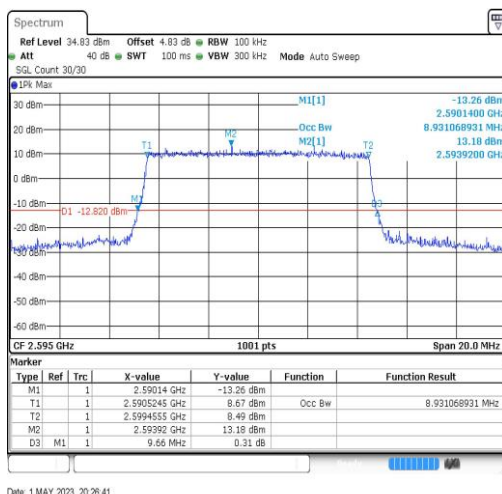
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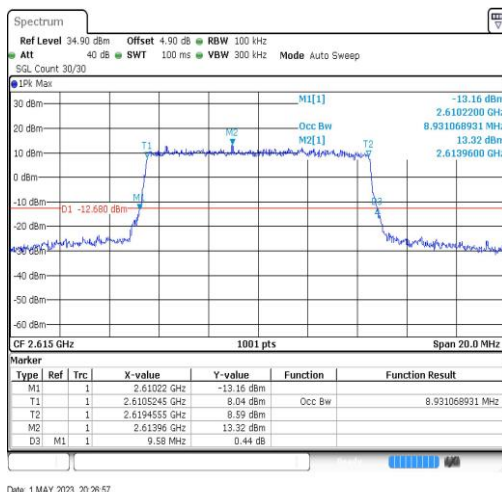
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Band38-10MHz-64QAM-38200-50RB#0-8.931



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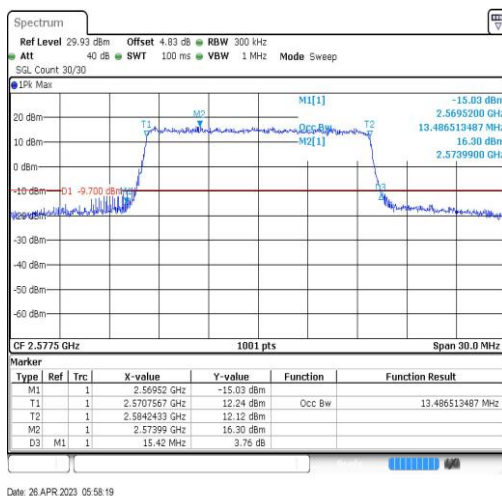
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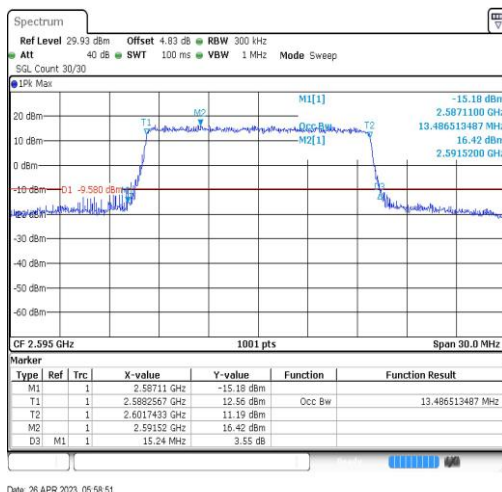
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Band38-15MHz-QPSK-37825-75RB#0-13.487



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



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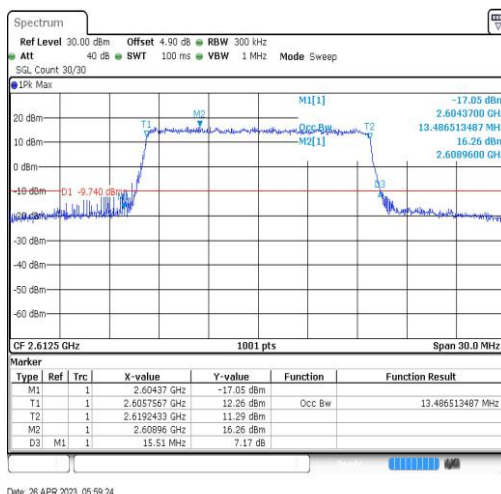
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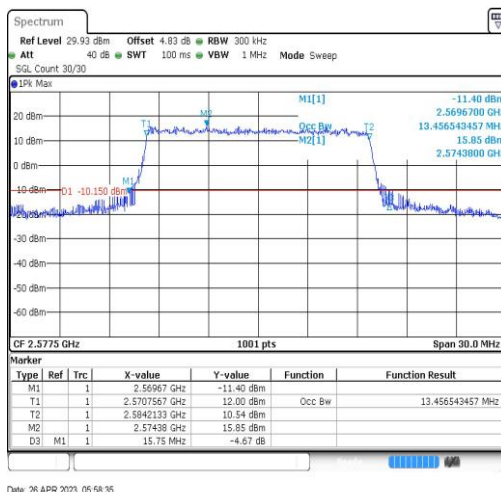
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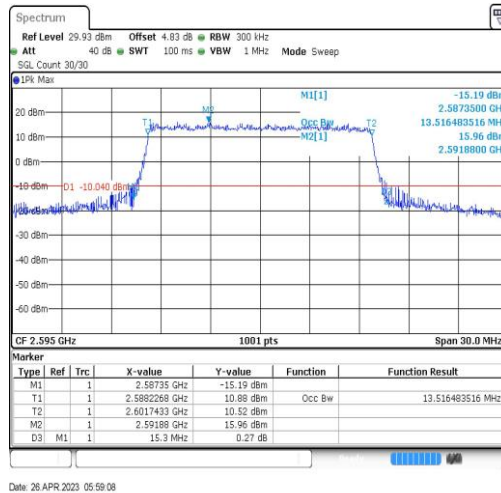
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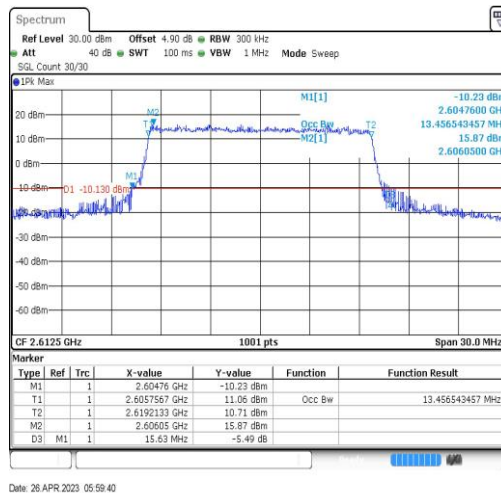
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Band38-15MHz-16QAM-38000-75RB#0-13.516



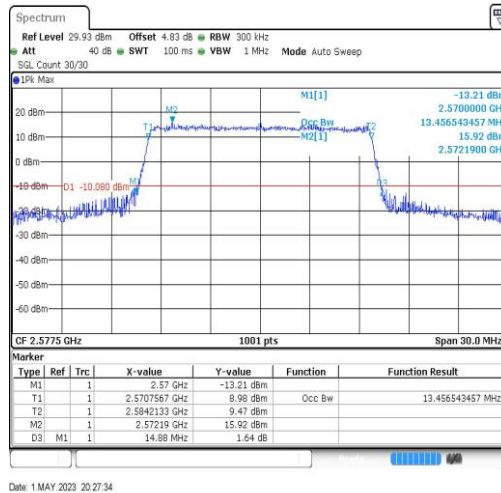
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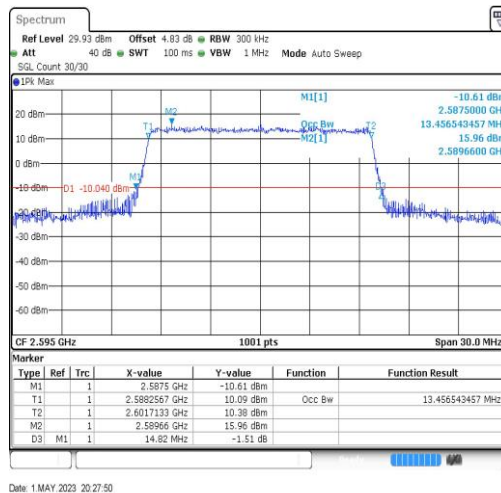
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Band38-15MHz-64QAM-37825-75RB#0-13.457



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

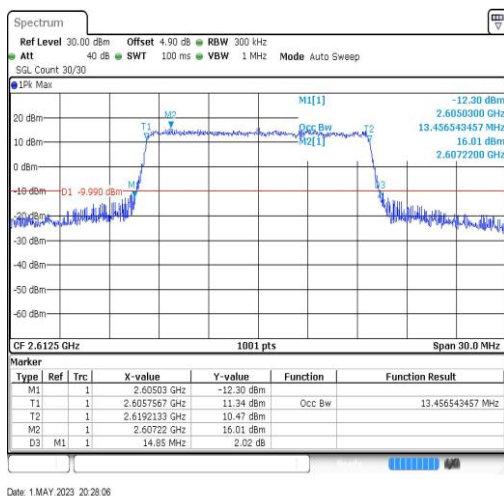




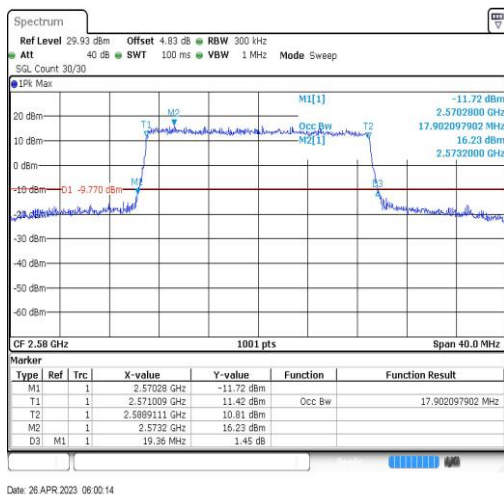
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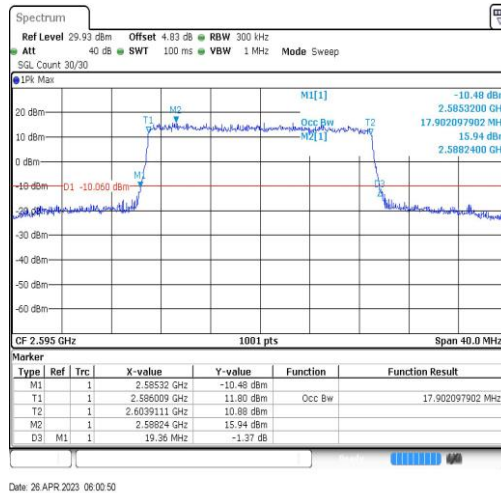
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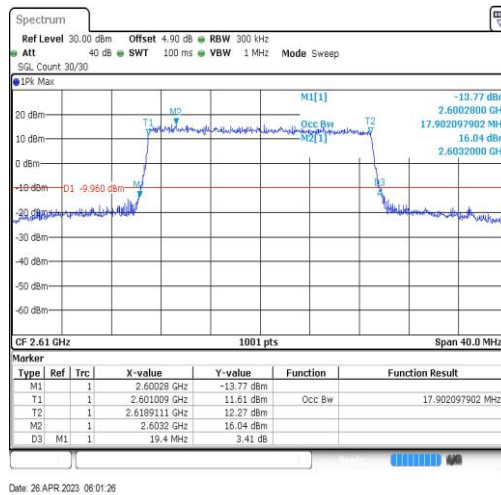
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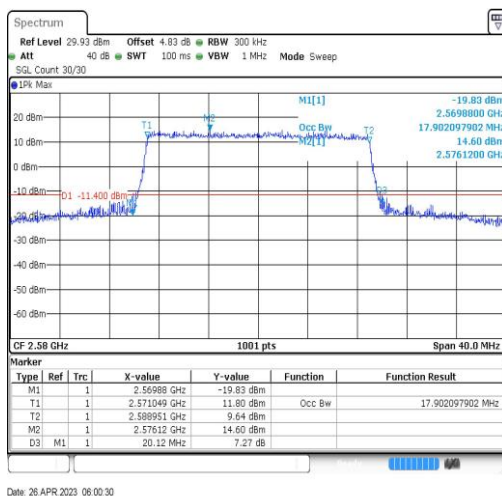
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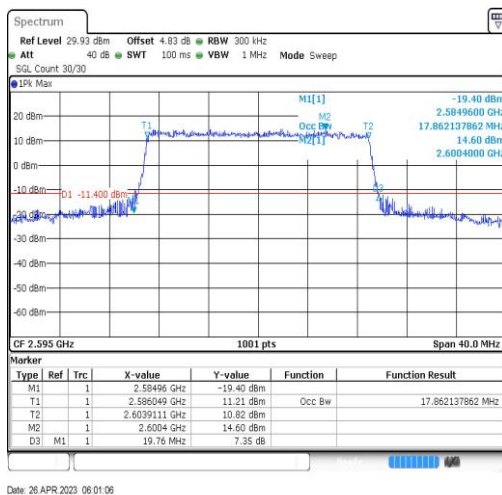
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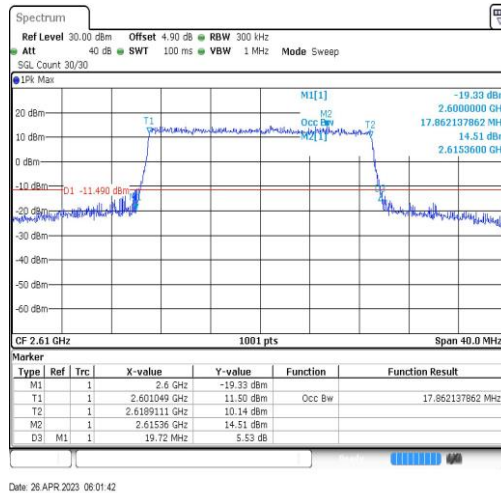


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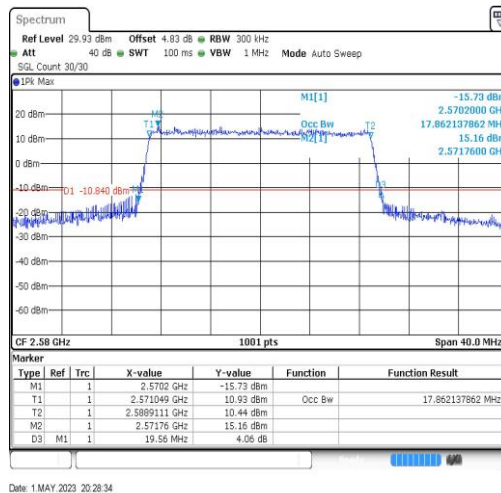


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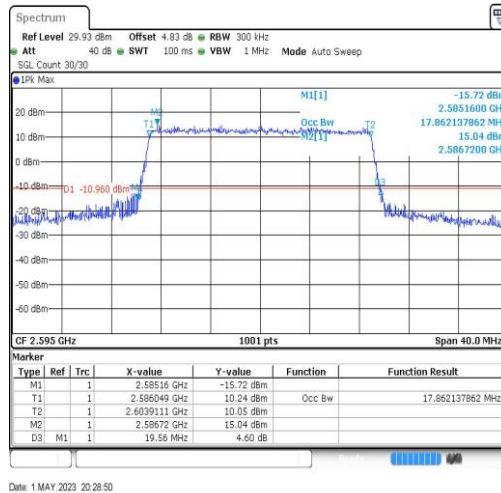


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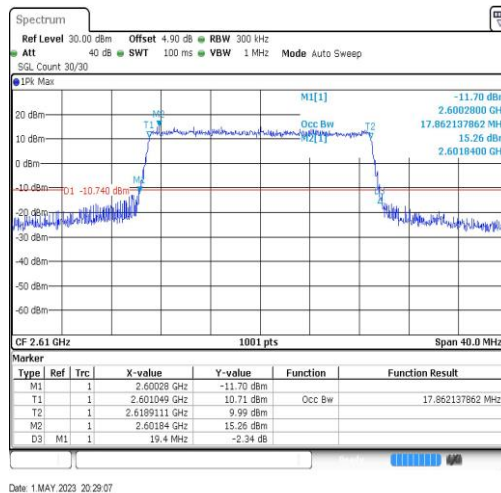


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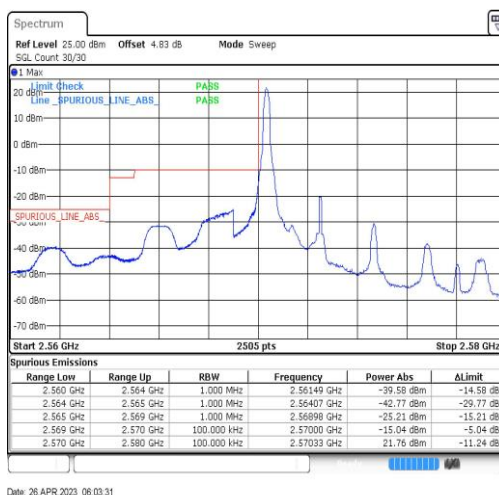
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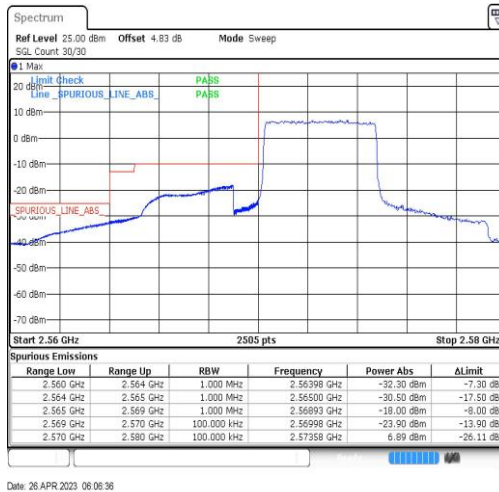


Band Edge

Test Graphs



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



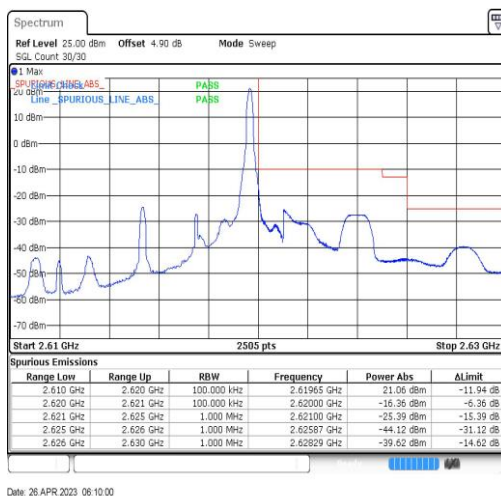
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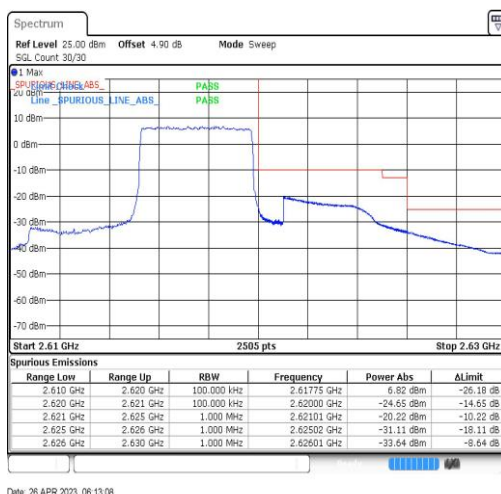
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Band38-5MHz-QPSK-38225-1RB#24



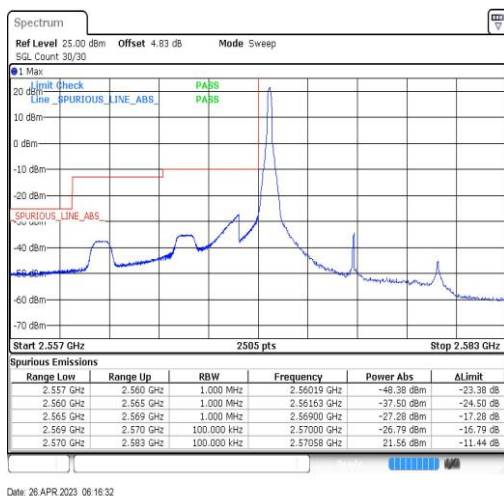
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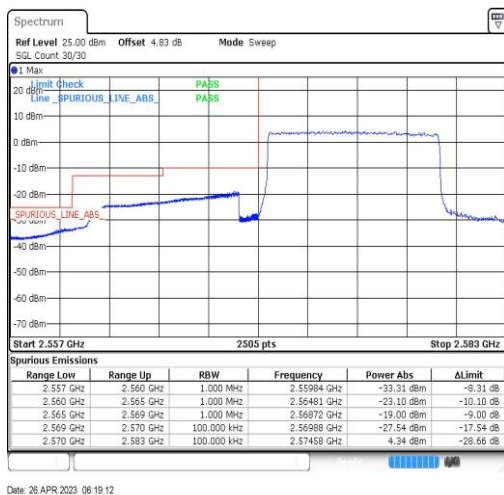
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Band38-10MHz-QPSK-37800-1RB#0



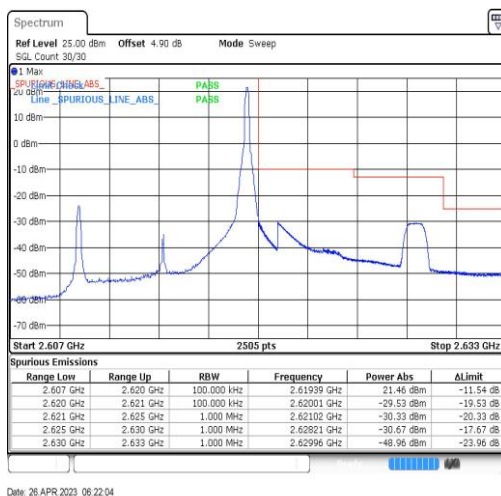
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Band38-10MHz-QPSK-38200-1RB#49



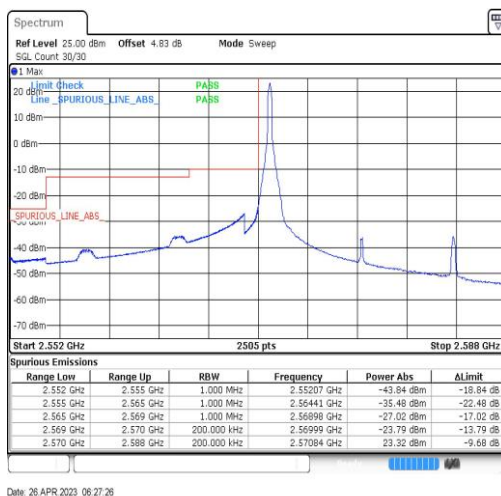
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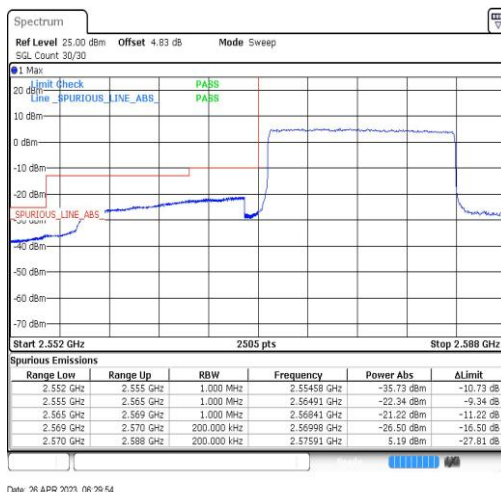
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Band38-15MHz-QPSK-37825-1RB#0



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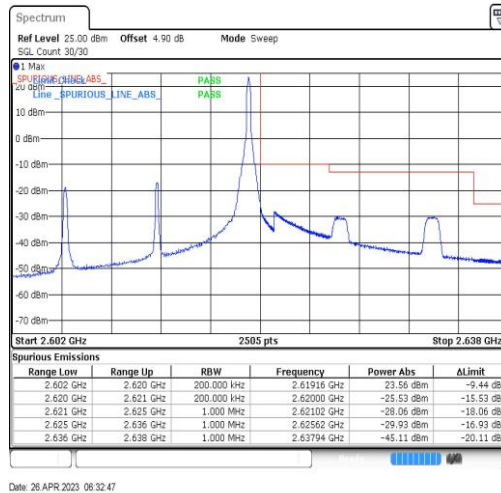
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Band38-15MHz-QPSK-38175-1RB#74



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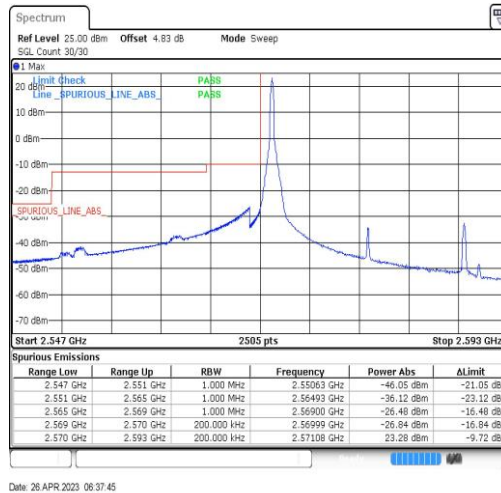
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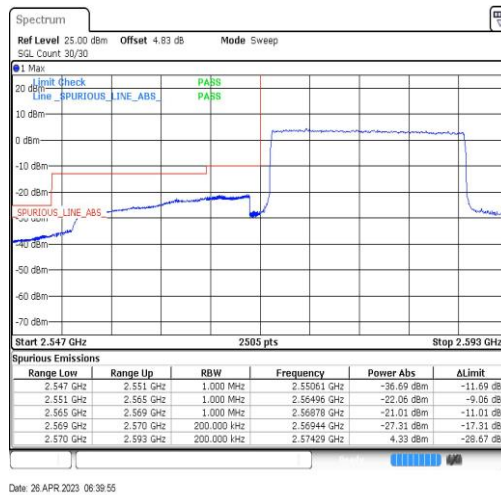
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Band38-20MHz-QPSK-37850-1RB#0



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



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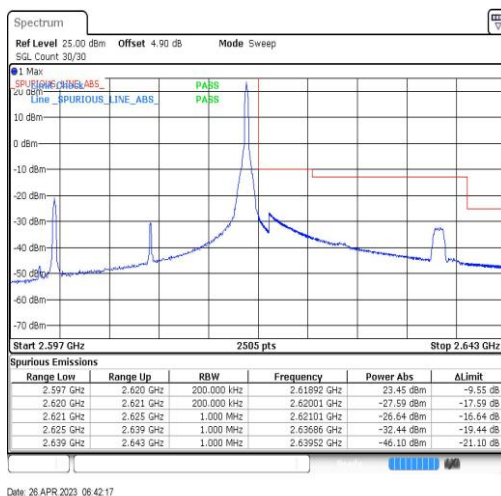
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Band38-20MHz-QPSK-38150-1RB#99



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



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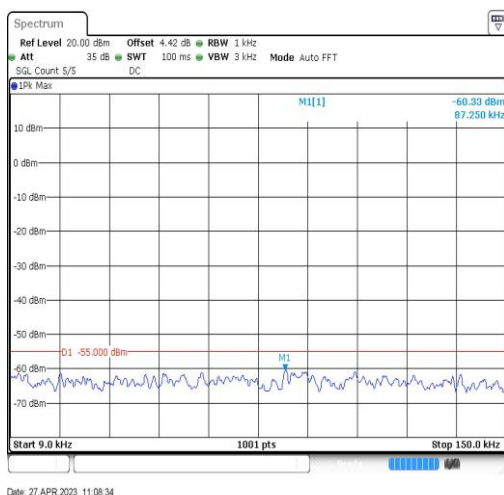
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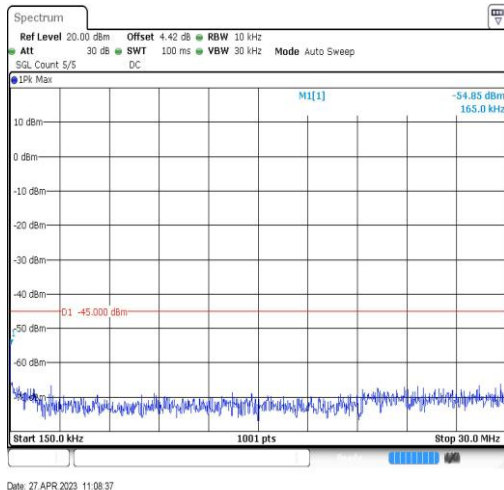


Conducted Spurious Emission

Test Graphs

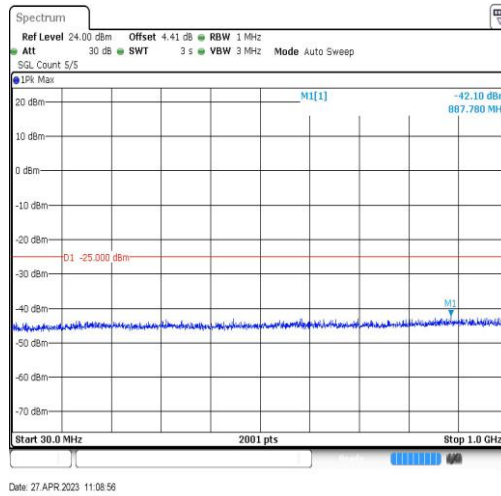


Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz

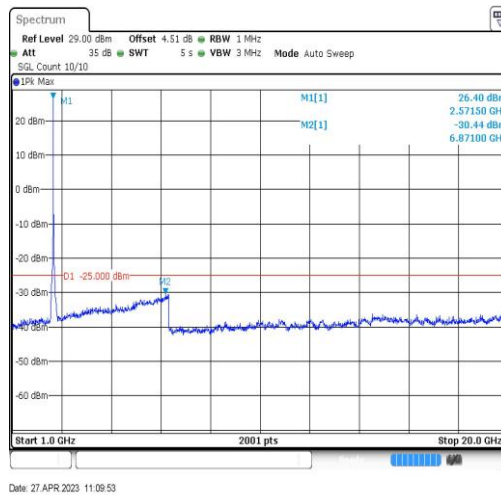


Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz





Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



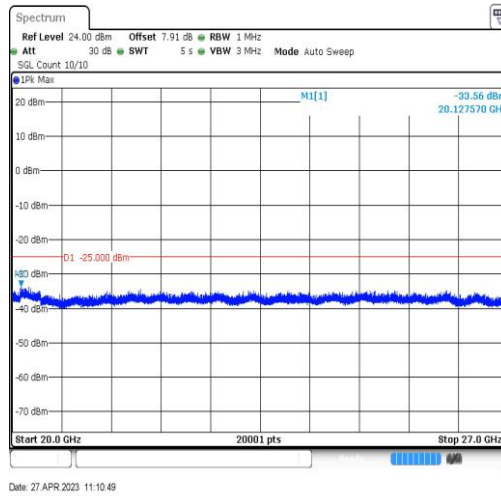
Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz



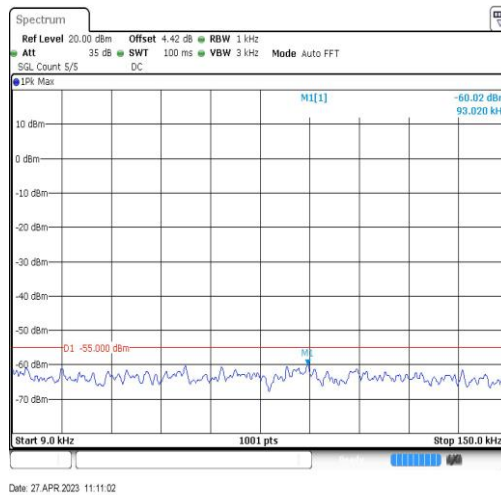
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



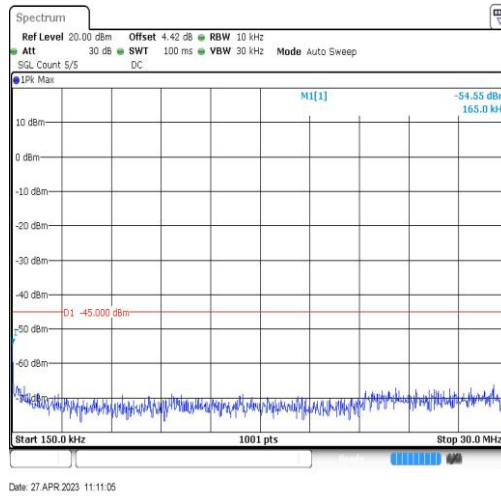
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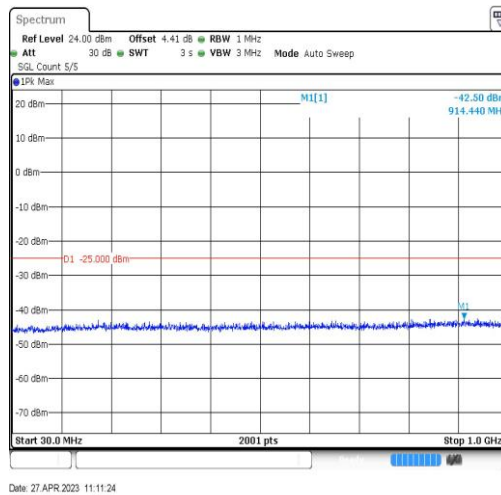
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



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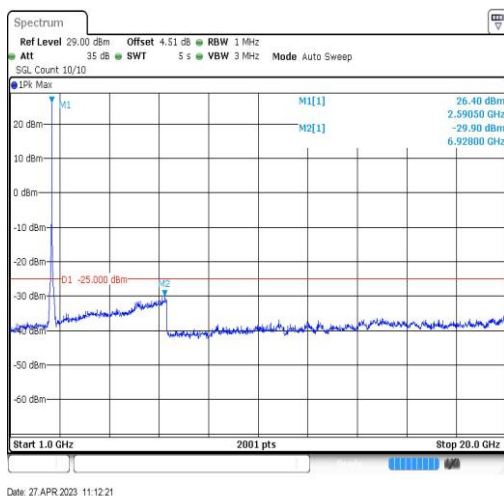
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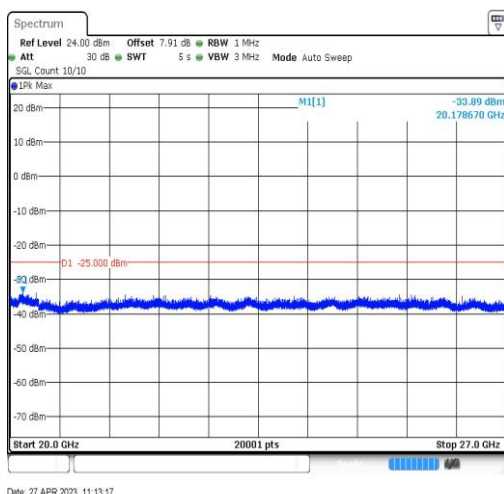
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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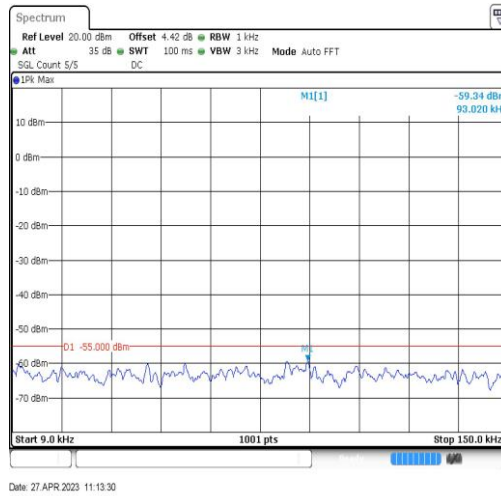
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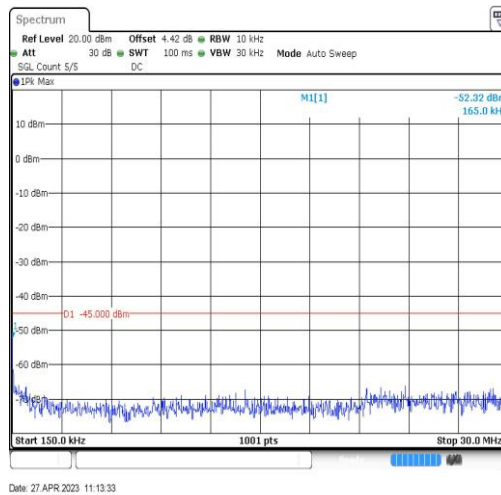
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz

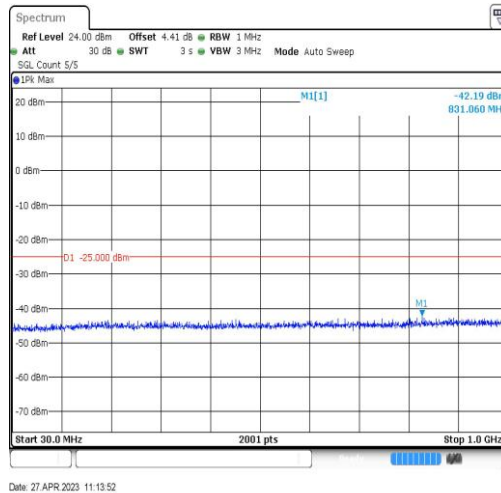


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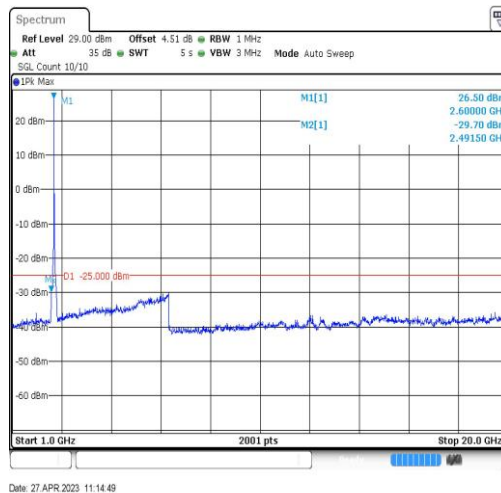
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



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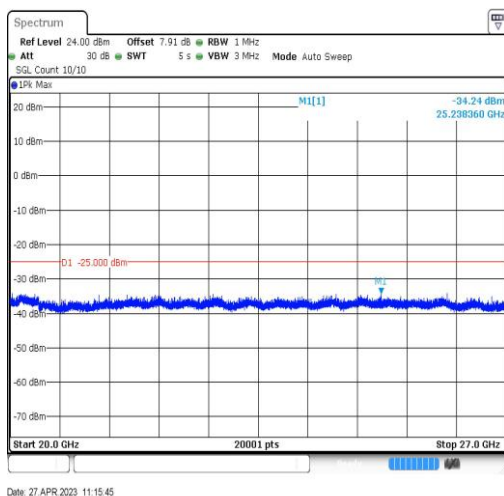
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_38 ANT 13_20MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3724.5362	49.03	-44.61	29.45	-61.39	-25.00	36.39	245	26	Horizontal
2	5728.6364	47.47	-41.22	32.50	-56.51	-25.00	31.51	264	350	Horizontal
3	7904.4952	45.40	-37.47	36.49	-50.84	-25.00	25.84	211	209	Horizontal
4	11093.6547	45.75	-37.55	40.19	-46.87	-25.00	21.87	265	177	Horizontal
5	13584.5292	45.93	-37.86	40.07	-47.12	-25.00	22.12	216	149	Horizontal
6	15189.6095	46.38	-35.70	39.76	-44.82	-25.00	19.82	263	299	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3735.7868	48.78	-44.66	29.51	-61.63	-25.00	36.63	285	176	Vertical
2	5677.6339	47.95	-41.21	32.50	-56.02	-25.00	31.02	266	145	Vertical
3	7713.2357	49.81	-37.61	36.69	-46.37	-25.00	21.37	245	263	Vertical
4	9563.5782	45.27	-35.77	37.80	-47.96	-25.00	22.96	216	30	Vertical
5	10969.1485	45.03	-37.12	40.13	-47.22	-25.00	22.22	266	165	Vertical
6	15201.6101	45.93	-35.30	39.70	-44.93	-25.00	19.93	236	141	Vertical



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Test Band = LTE_38 ANT 13 _20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3723.0362	48.56	-44.61	29.44	-61.87	-25.00	36.87	378	240	Horizontal
2	5700.135	47.50	-41.14	32.50	-56.40	-25.00	31.40	375	346	Horizontal
3	7479.974	45.41	-38.29	36.86	-51.28	-25.00	26.28	304	342	Horizontal
4	9480.324	45.48	-35.89	37.68	-47.99	-25.00	22.99	298	65	Horizontal
5	11024.6512	45.24	-37.13	40.12	-47.03	-25.00	22.03	391	172	Horizontal
6	15194.1097	46.21	-35.52	39.74	-44.83	-25.00	19.83	315	168	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3728.2864	48.82	-44.63	29.47	-61.60	-25.00	36.60	338	184	Vertical
2	5680.634	47.50	-41.20	32.50	-56.46	-25.00	31.46	387	350	Vertical
3	7758.2379	46.20	-37.76	36.43	-50.39	-25.00	25.39	142	263	Vertical
4	10969.8985	45.13	-37.12	40.13	-47.12	-25.00	22.12	322	354	Vertical
5	13588.2794	45.57	-37.86	40.08	-47.47	-25.00	22.47	188	37	Vertical
6	15188.8594	46.47	-35.73	39.77	-44.75	-25.00	19.75	164	267	Vertical



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Test Band = LTE_38 ANT 13 _20MHz_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3732.7866	48.50	-44.65	29.50	-61.91	-25.00	36.91	154	315	Horizontal
2	5709.8855	47.70	-41.17	32.50	-56.23	-25.00	31.23	264	235	Horizontal
3	7507.7254	45.74	-38.33	36.82	-51.03	-25.00	26.03	166	279	Horizontal
4	9558.3279	45.45	-35.79	37.80	-47.80	-25.00	22.80	264	89	Horizontal
5	11035.9018	45.04	-37.20	40.14	-47.28	-25.00	22.28	321	224	Horizontal
6	15190.3595	46.41	-35.67	39.76	-44.76	-25.00	19.76	284	137	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.0365	48.65	-44.63	29.47	-61.77	-25.00	36.77	208	291	Vertical
2	5742.8871	47.85	-41.26	32.50	-56.17	-25.00	31.17	266	10	Vertical
3	7803.2402	46.44	-37.89	36.61	-50.10	-25.00	25.10	264	263	Vertical
4	9535.0768	45.39	-35.88	37.80	-47.95	-25.00	22.95	169	132	Vertical
5	11034.4017	45.13	-37.19	40.13	-47.19	-25.00	22.19	266	10	Vertical
6	16584.6792	46.18	-35.38	39.47	-44.99	-25.00	19.99	234	259	Vertical



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Test Band = LTE_38 ANT 31_20MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3964.5482	48.57	-44.18	29.87	-61.00	-25.00	36.00	285	46	Horizontal
2	6132.1566	47.56	-40.62	33.34	-54.98	-25.00	29.98	187	242	Horizontal
3	7849.7425	45.64	-37.69	36.80	-50.51	-25.00	25.51	234	248	Horizontal
4	10999.15	45.42	-36.98	40.10	-46.72	-25.00	21.72	252	91	Horizontal
5	13550.0275	46.01	-37.91	40.00	-47.16	-25.00	22.16	293	2	Horizontal
6	16601.1801	46.68	-35.41	39.50	-44.49	-25.00	19.49	264	14	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3966.0483	48.63	-44.18	29.87	-60.94	-25.00	35.94	101	248	Vertical
2	5674.6337	47.81	-41.22	32.50	-56.17	-25.00	31.17	320	181	Vertical
3	7896.9948	45.88	-37.49	36.52	-50.35	-25.00	25.35	245	129	Vertical
4	10981.8991	45.29	-37.06	40.12	-46.91	-25.00	21.91	208	141	Vertical
5	13691.0346	45.86	-37.99	40.19	-47.20	-25.00	22.20	383	271	Vertical
6	16594.4297	46.42	-35.36	39.49	-44.71	-25.00	19.71	346	193	Vertical



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Test Band = LTE_38 ANT 31_20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3885.0443	48.82	-44.31	29.70	-61.05	-25.00	36.05	386	288	Horizontal
2	6072.1536	47.43	-40.74	33.46	-55.11	-25.00	30.11	333	232	Horizontal
3	7913.4957	46.03	-37.45	36.47	-50.21	-25.00	25.21	222	5	Horizontal
4	10965.3983	45.67	-37.14	40.13	-46.60	-25.00	21.60	184	275	Horizontal
5	15194.1097	46.24	-35.52	39.74	-44.80	-25.00	19.80	258	295	Horizontal
6	18000	45.79	-43.04	48.20	-44.31	-25.00	19.31	375	224	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3892.5446	48.38	-44.25	29.70	-61.43	-25.00	36.43	330	220	Vertical
2	5125.6063	48.51	-42.53	31.65	-57.63	-25.00	32.63	182	228	Vertical
3	7970.4985	45.51	-37.32	36.40	-50.67	-25.00	25.67	244	58	Vertical
4	9912.3456	44.56	-35.28	38.61	-47.37	-25.00	22.37	328	42	Vertical
5	10960.148	45.77	-37.16	40.14	-46.51	-25.00	21.51	115	350	Vertical
6	15191.8596	46.60	-35.61	39.75	-44.52	-25.00	19.52	270	295	Vertical



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Test Band = LTE_38 ANT 31_20MHz_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3927.0464	48.43	-44.19	29.81	-61.21	-25.00	36.21	151	152	Horizontal
2	6120.156	47.66	-40.59	33.36	-54.83	-25.00	29.83	168	311	Horizontal
3	7434.9717	46.11	-38.28	36.77	-50.66	-25.00	25.66	331	233	Horizontal
4	9910.0955	44.62	-35.23	38.61	-47.26	-25.00	22.26	229	93	Horizontal
5	13674.5337	45.92	-37.97	40.17	-47.14	-25.00	22.14	241	296	Horizontal
6	15218.8609	46.47	-35.46	39.74	-44.51	-25.00	19.51	160	217	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3948.7974	48.35	-44.19	29.90	-61.20	-25.00	36.20	296	272	Vertical
2	5628.8814	48.04	-41.35	32.54	-56.03	-25.00	31.03	106	184	Vertical
3	7701.9851	45.55	-37.57	36.78	-50.50	-25.00	25.50	168	250	Vertical
4	9912.3456	44.52	-35.28	38.61	-47.41	-25.00	22.41	244	241	Vertical
5	10954.1477	45.29	-37.19	40.15	-47.01	-25.00	22.01	148	272	Vertical
6	15221.8611	46.29	-35.49	39.74	-44.72	-25.00	19.72	384	330	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-7.10	-0.002736	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-10.70	-0.004123	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-10.90	-0.004200	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-9.10	-0.003507	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-10.30	-0.003969	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-12.00	-0.004624	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-11.70	-0.004509	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-10.50	-0.004046	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-11.30	-0.004355	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-8.60	-0.003314	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-10.70	-0.004123	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-8.00	-0.003083	PASS

---End of Attachment---



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