



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	22.32	21.22	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.53	21.43	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.33	21.23	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.64	20.54	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.61	20.51	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.58	20.48	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.53	20.43	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.17	21.07	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.26	21.16	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.06	20.96	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.39	20.29	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.43	20.33	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.29	20.19	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.31	20.21	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.00	20.90	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.08	20.98	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.00	20.90	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.24	20.14	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.22	20.12	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.14	20.04	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.07	19.97	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.51	20.41	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.62	20.52	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.38	20.28	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.51	19.41	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.56	19.46	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.47	19.37	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.55	19.45	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.31	20.21	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.33	20.23	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.19	20.09	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.37	19.27	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.34	19.24	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.22	19.12	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.33	19.23	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.13	20.03	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.16	20.06	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.07	19.97	33.00	PASS





Band38	5MHz	16QAM	38225	12RB#0	20.11	19.01	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.11	19.01	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.05	18.95	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.10	19.00	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.53	21.43	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.33	21.23	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.41	21.31	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.59	20.49	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.57	20.47	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.58	20.48	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.51	20.41	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.36	21.26	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.20	21.10	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.14	21.04	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.40	20.30	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.31	20.21	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.33	20.23	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.30	20.20	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.17	21.07	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	21.96	20.86	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.07	20.97	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.29	20.19	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.24	20.14	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.18	20.08	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.13	20.03	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.65	20.55	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.52	20.42	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.56	20.46	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.58	19.48	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.60	19.50	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.58	19.48	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.60	19.50	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.48	20.38	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.29	20.19	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.25	20.15	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.42	19.32	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.35	19.25	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.34	19.24	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.40	19.30	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.32	20.22	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.14	20.04	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.17	20.07	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.24	19.14	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.21	19.11	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.15	19.05	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.24	19.14	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.42	21.32	33.00	PASS



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Band38	15MHz	QPSK	37825	1RB#38	22.52	21.42	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.31	21.21	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.61	20.51	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.67	20.57	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.61	20.51	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.50	20.40	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.31	21.21	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.23	21.13	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.03	20.93	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.43	20.33	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.33	20.23	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.29	20.19	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.27	20.17	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.13	21.03	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.10	21.00	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	21.98	20.88	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.22	20.12	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.23	20.13	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.20	20.10	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.12	20.02	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.47	20.37	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.51	20.41	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.33	20.23	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	20.54	19.44	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.63	19.53	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.47	19.37	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.56	19.46	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.38	20.28	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.34	20.24	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.12	20.02	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.43	19.33	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.34	19.24	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	20.21	19.11	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.34	19.24	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.22	20.12	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.18	20.08	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.03	19.93	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.17	19.07	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.13	19.03	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	20.09	18.99	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.18	19.08	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.26	21.16	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.51	21.41	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.03	20.93	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.47	20.37	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.43	20.33	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.37	20.27	33.00	PASS



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Band38	20MHz	QPSK	37850	100RB#0	21.42	20.32	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.17	21.07	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.27	21.17	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	21.82	20.72	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.25	20.15	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.23	20.13	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.18	20.08	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.30	20.20	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	21.95	20.85	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.21	21.11	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	21.76	20.66	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.12	20.02	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.04	19.94	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	20.95	19.85	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.12	20.02	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.33	20.23	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.60	20.50	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.11	20.01	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.53	19.43	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.51	19.41	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.46	19.36	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.59	19.49	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.23	20.13	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.41	20.31	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	20.93	19.83	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.46	19.36	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.35	19.25	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.27	19.17	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.36	19.26	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.10	20.00	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.29	20.19	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	20.86	19.76	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.24	19.14	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.25	19.15	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.08	18.98	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.16	19.06	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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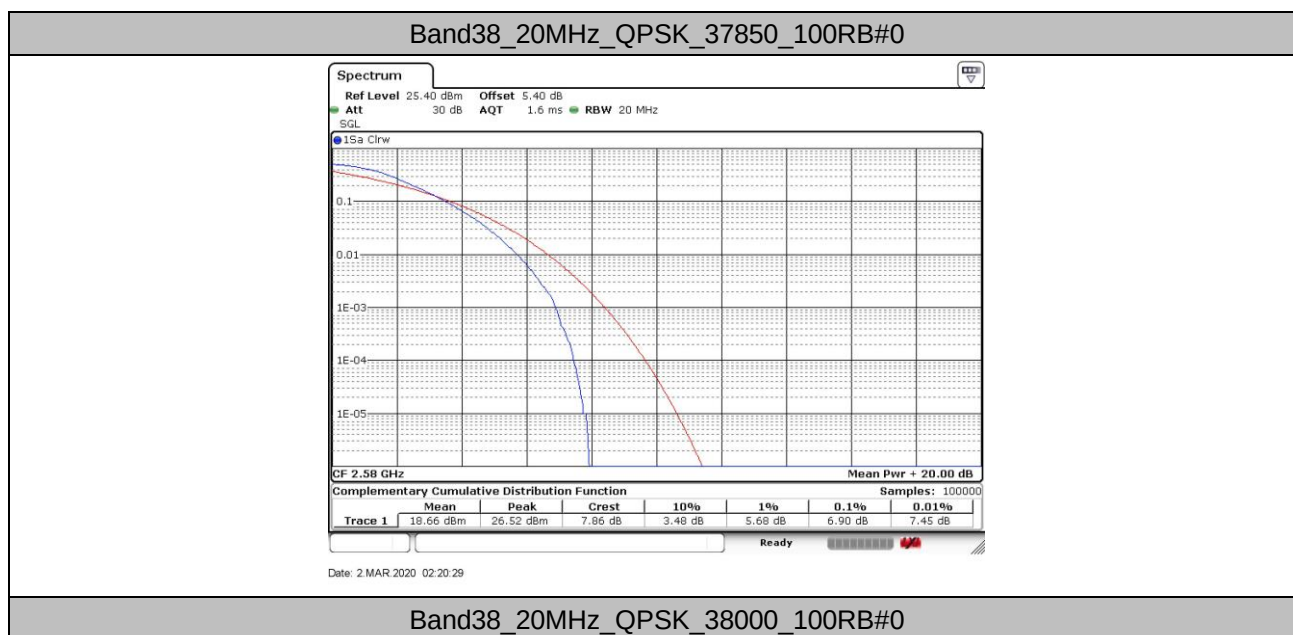
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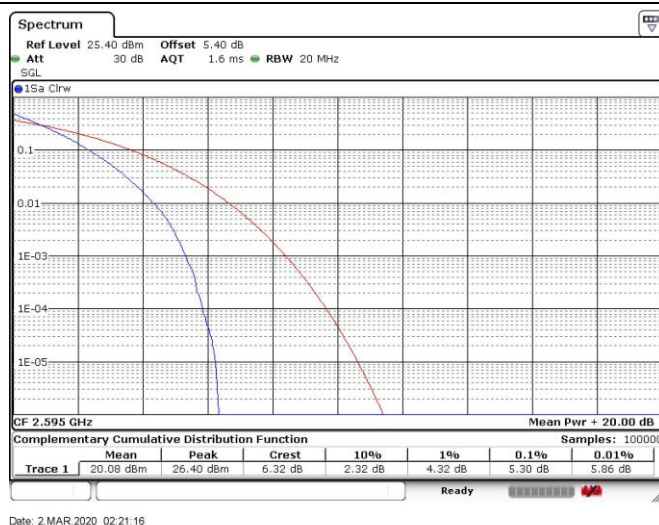
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

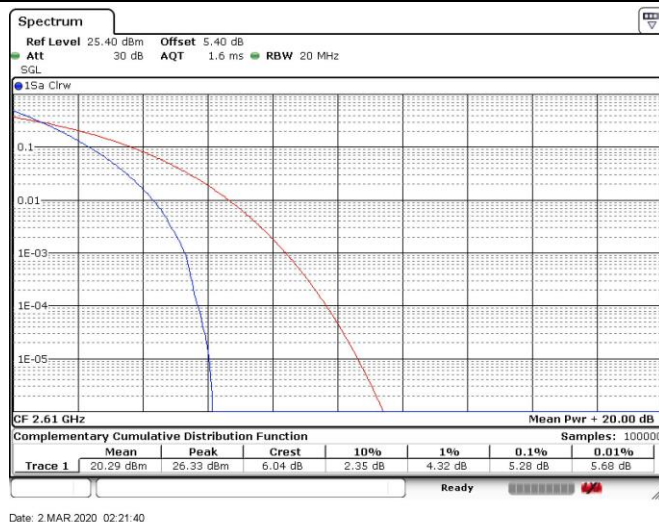
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	6.90	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.30	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.28	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	5.91	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.32	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	6.87	13	PASS

2.2. Test Plots



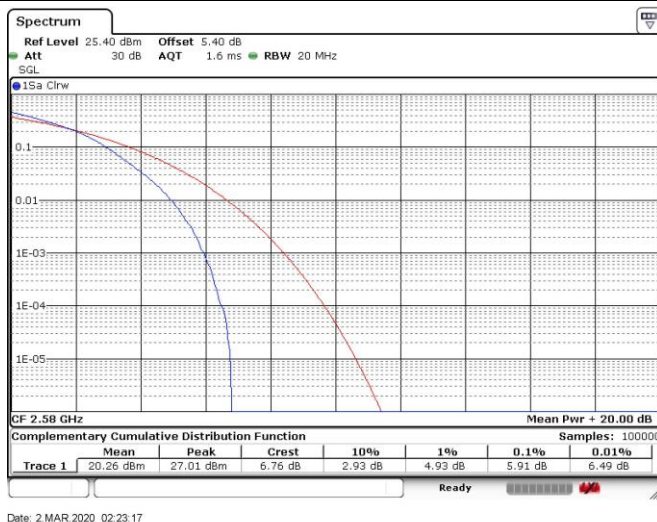


Band38_20MHz_QPSK_38150_100RB#0

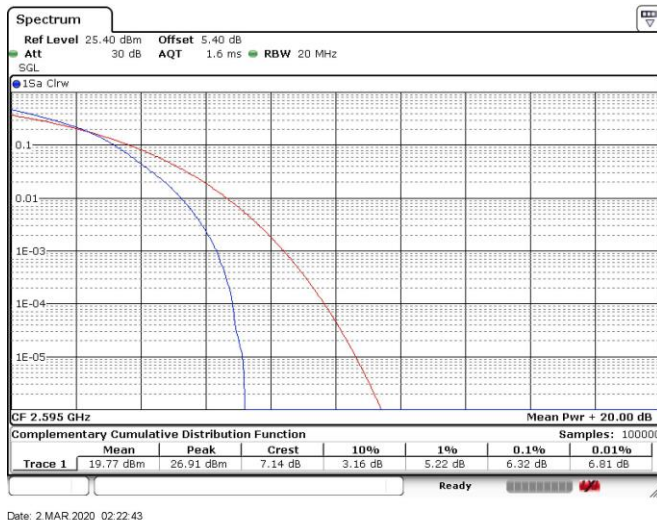


Band38_20MHz_16QAM_37850_100RB#0





Band38_20MHz_16QAM_38000_100RB#0

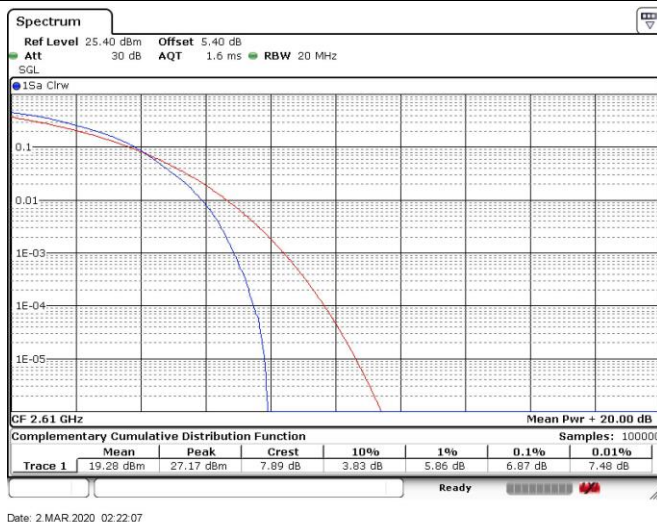


Band38_20MHz_16QAM_38150_100RB#0



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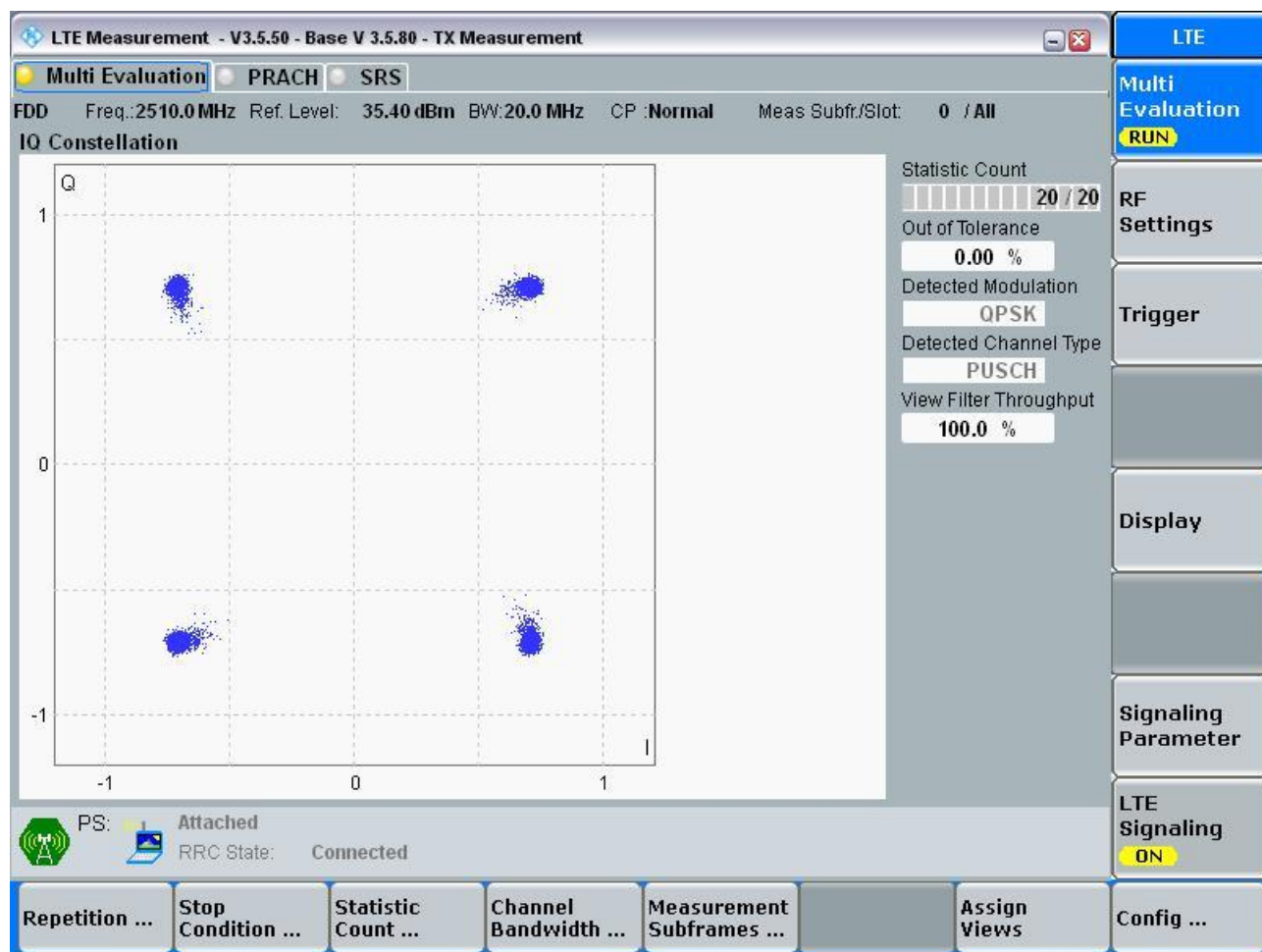
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3. Modulation Characteristics

3.1. Test Band = LTE Band 38

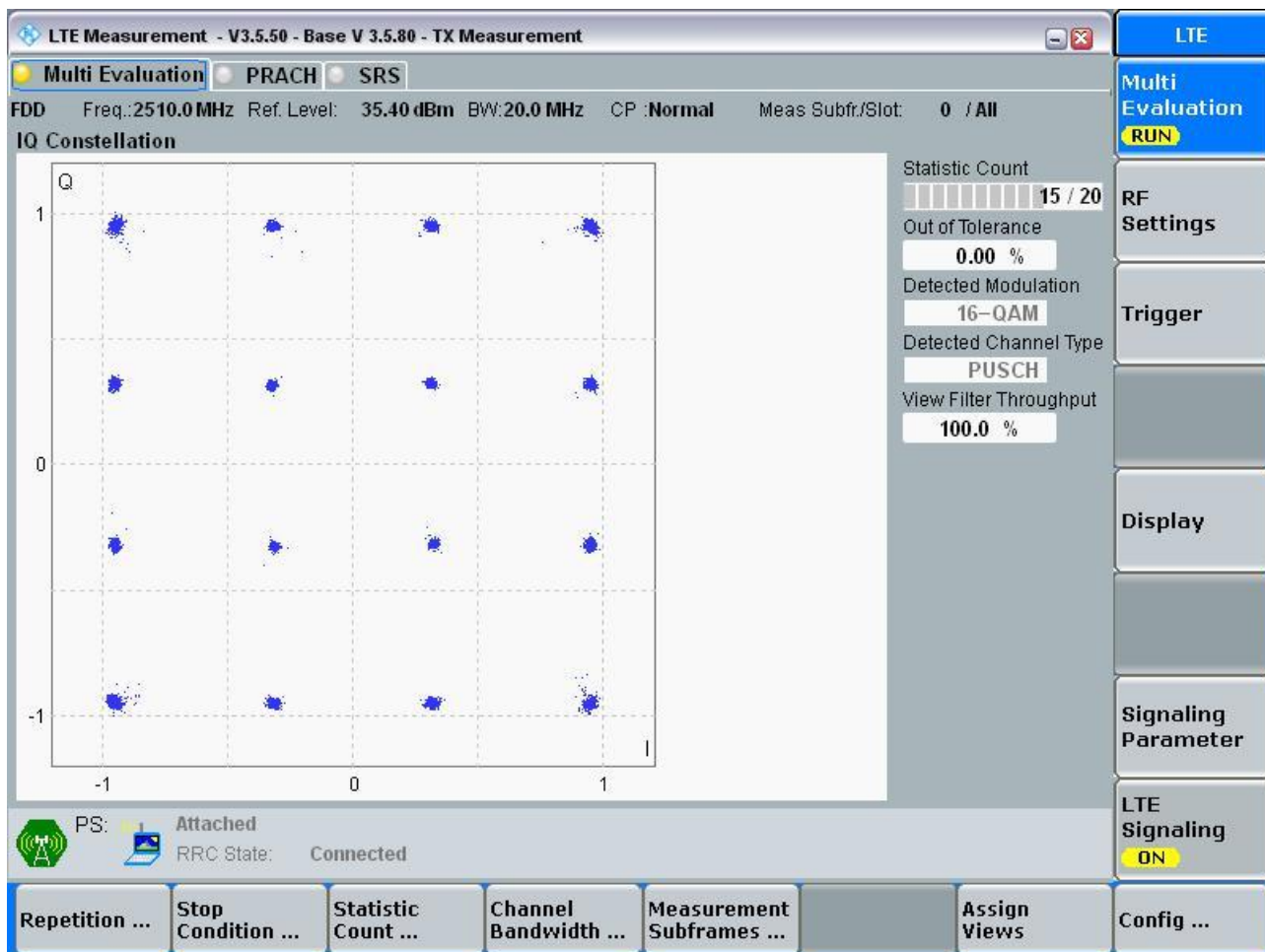
3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = LCH



3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = LCH



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	4.466	4.880	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.486	4.870	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.456	4.860	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.466	4.820	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.466	4.910	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.466	4.850	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.951	9.560	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.951	9.620	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.951	9.840	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.931	10.380	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.931	9.620	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.931	9.480	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.427	15.660	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.457	15.510	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.516	16.050	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.516	17.340	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.487	15.840	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.487	16.140	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	20.400	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.902	19.760	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.942	19.880	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.862	19.320	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	20.960	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.902	19.880	PASS



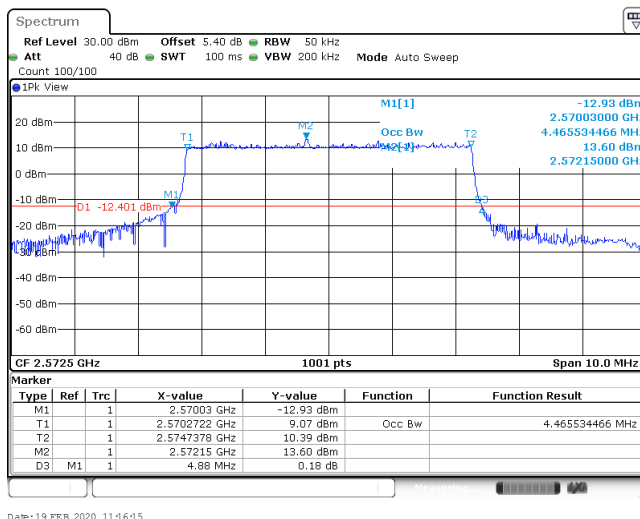
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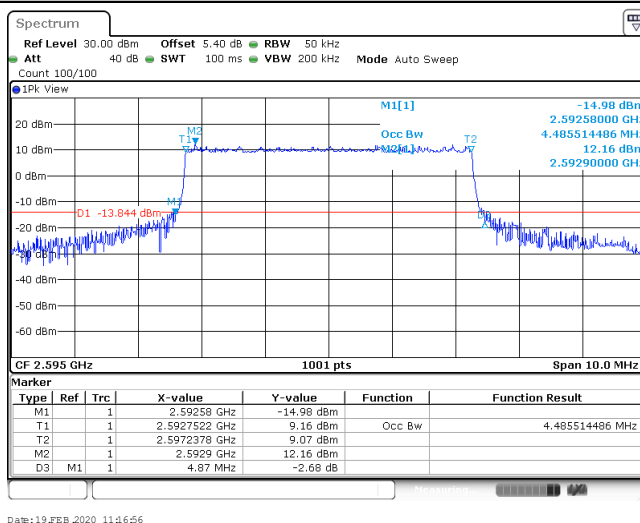
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4.2. Test Plots

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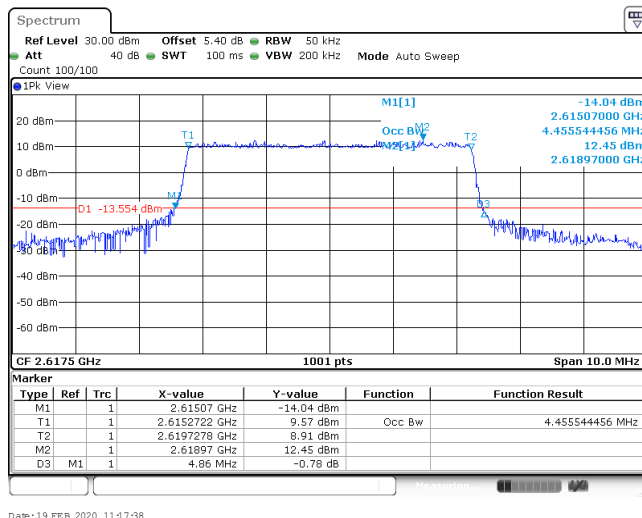


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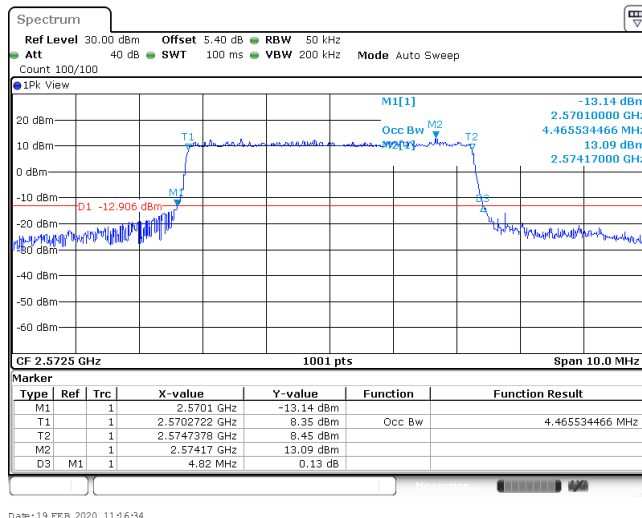


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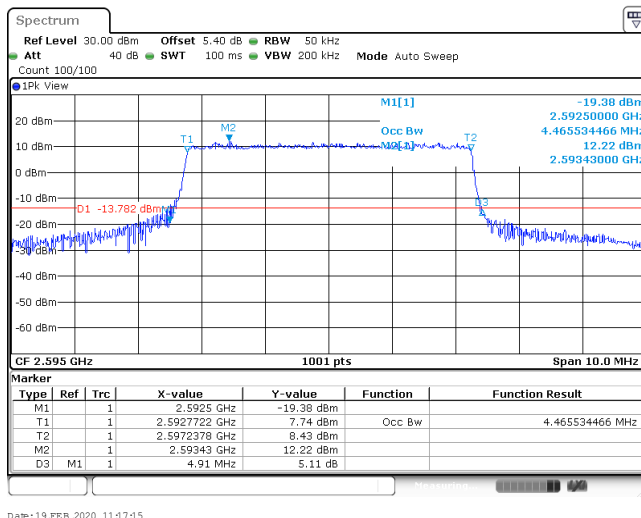


Band38_5MHz_16QAM_37775_25RB#0



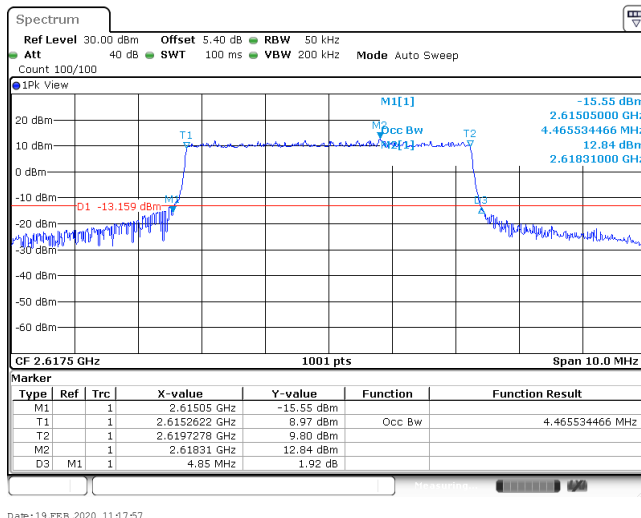
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Band38_5MHz_16QAM_38225_25RB#0



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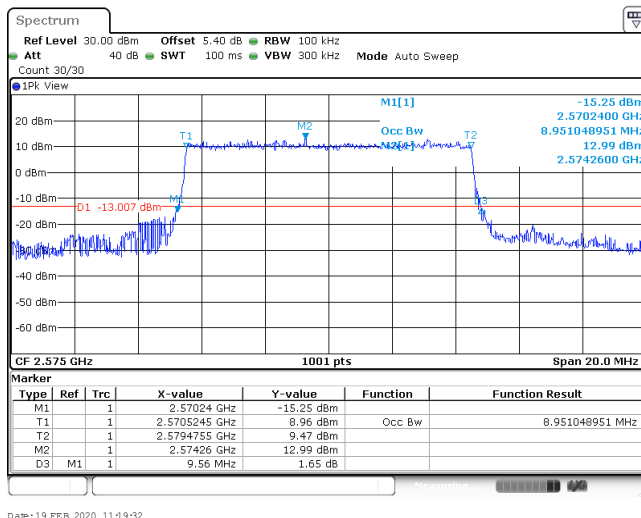
Band38_10MHz_QPSK_37800_50RB#0



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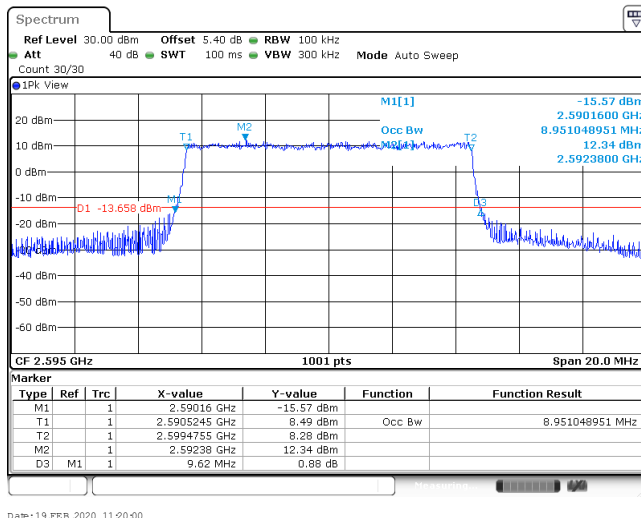
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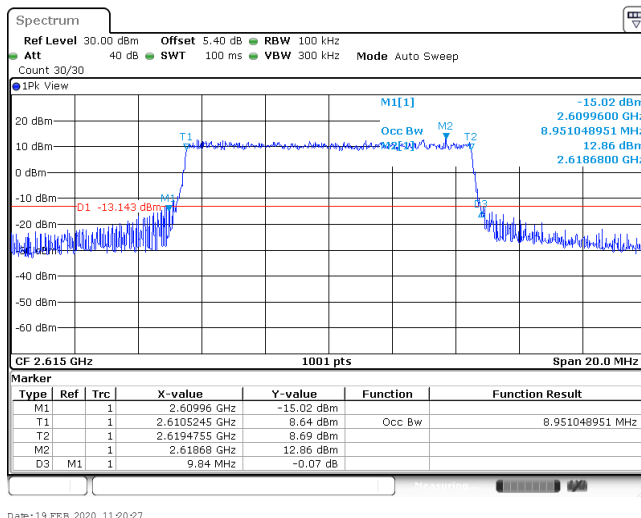
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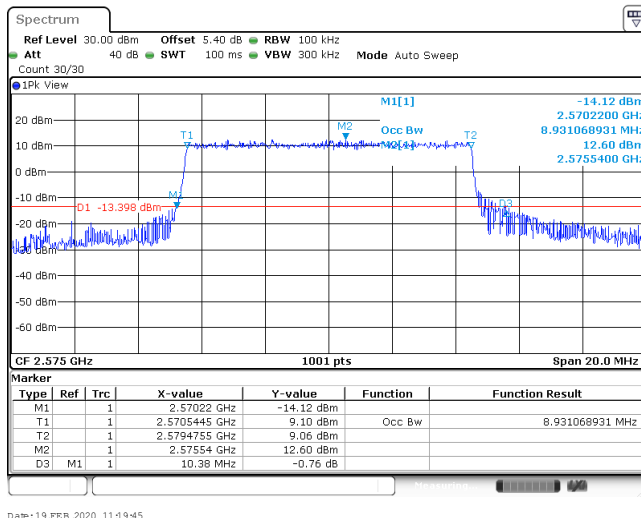
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Band38_10MHz_16QAM_37800_50RB#0



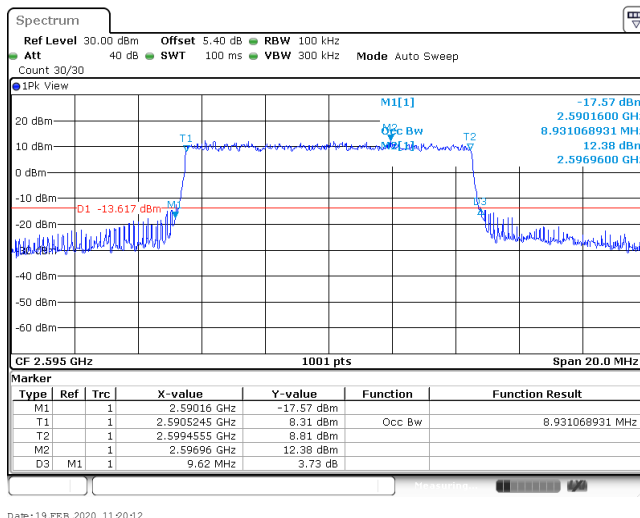
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Band38_10MHz_16QAM_38000_50RB#0



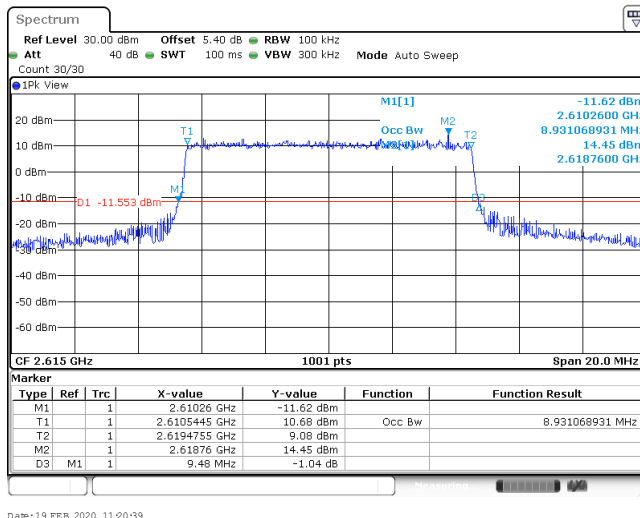
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Band38_10MHz_16QAM_38200_50RB#0



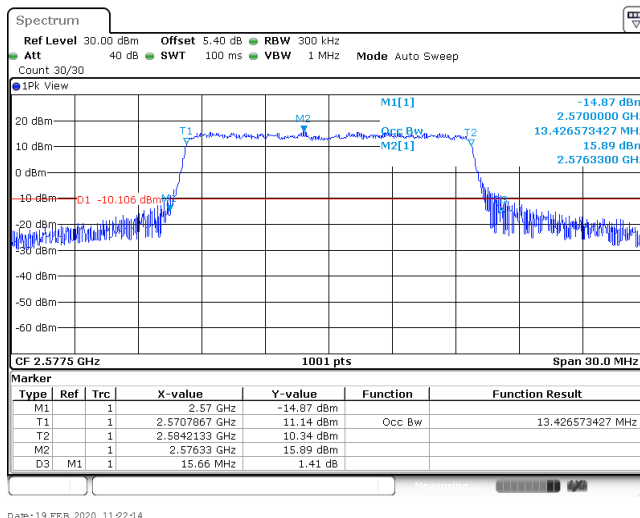
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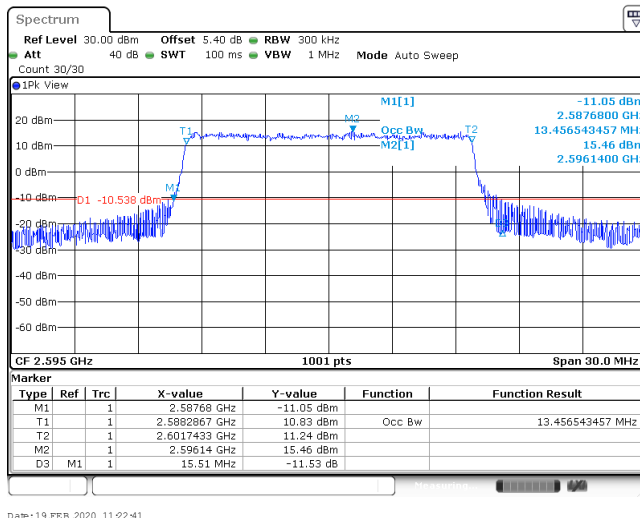
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Band38_15MHz_QPSK_38000_75RB#0



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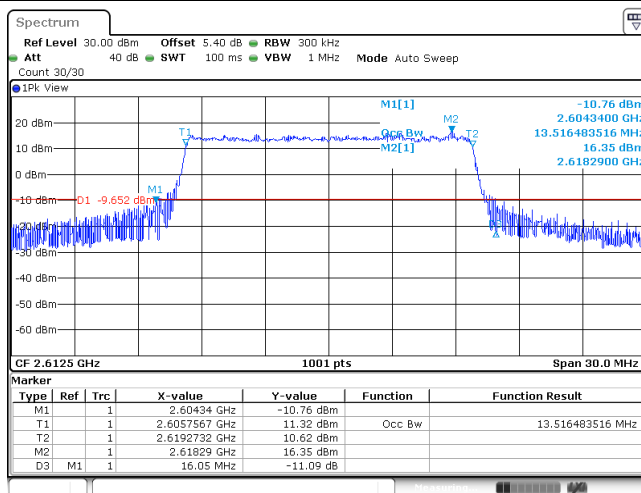
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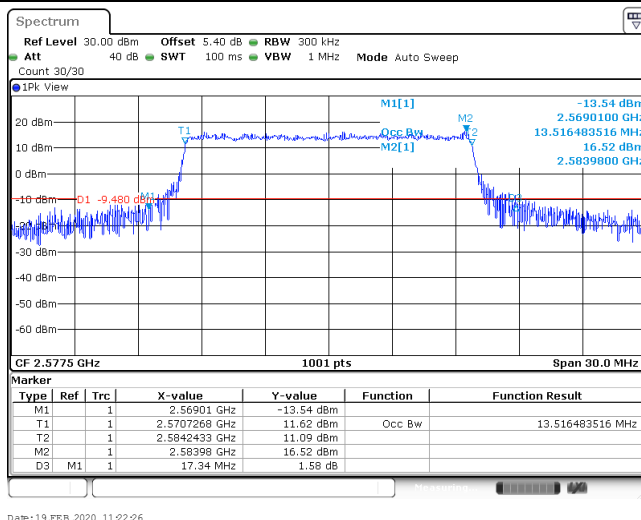
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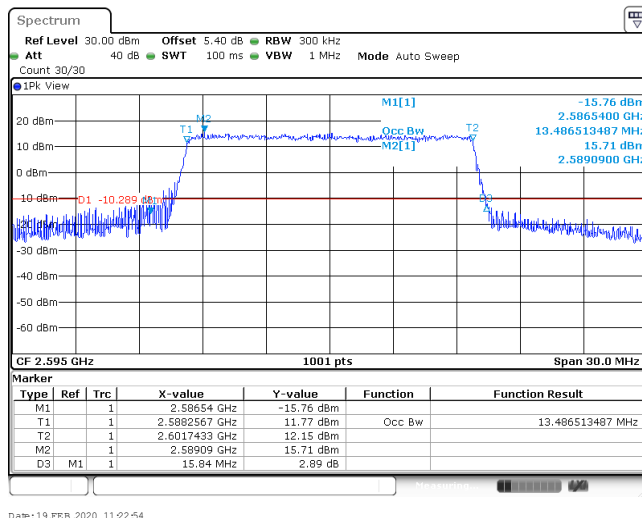


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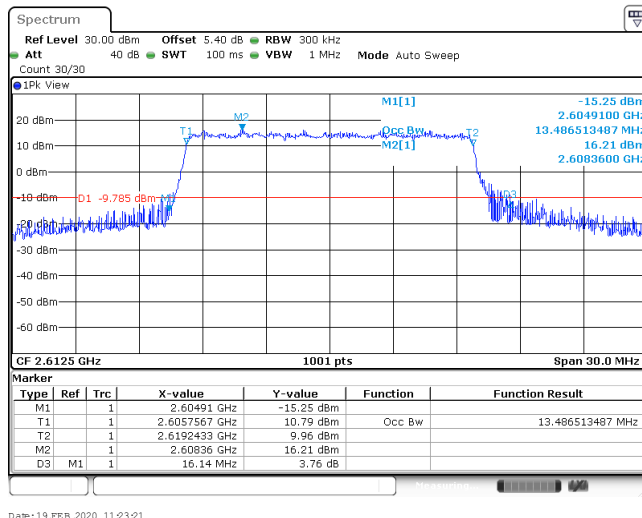
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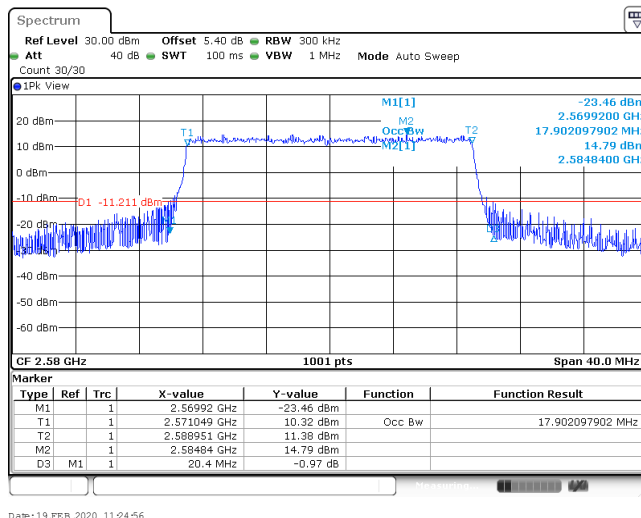
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Band38_20MHz_QPSK_37850_100RB#0



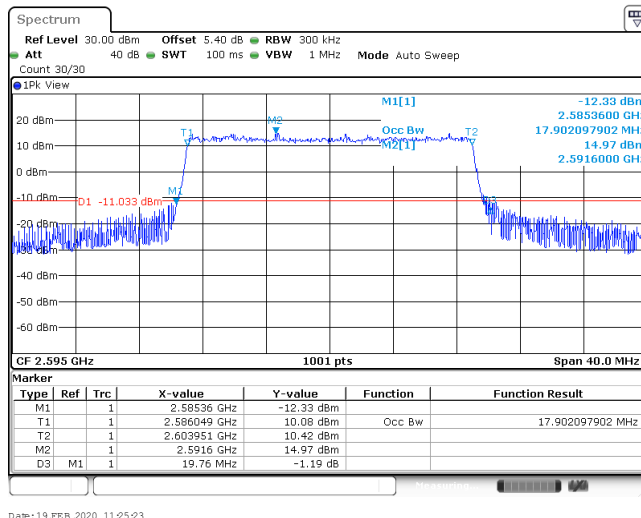
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Band38_20MHz_QPSK_38000_100RB#0



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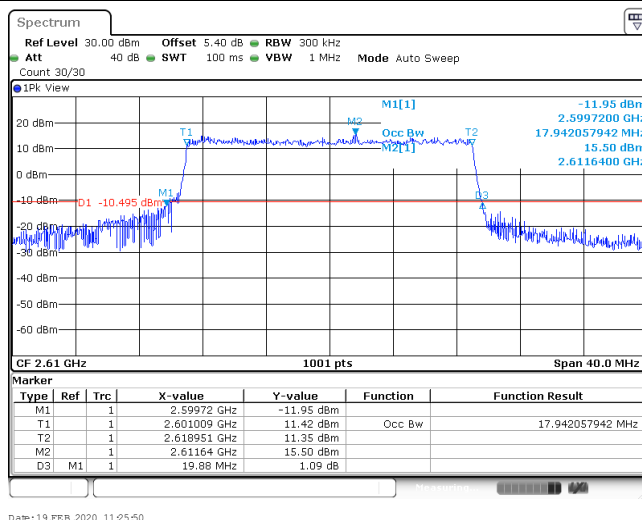
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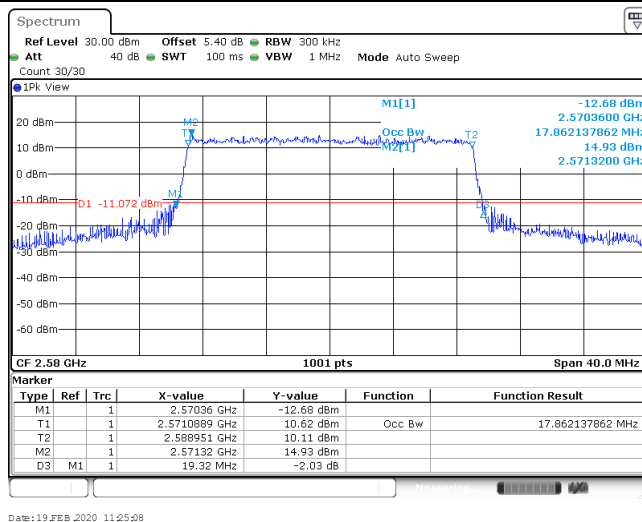
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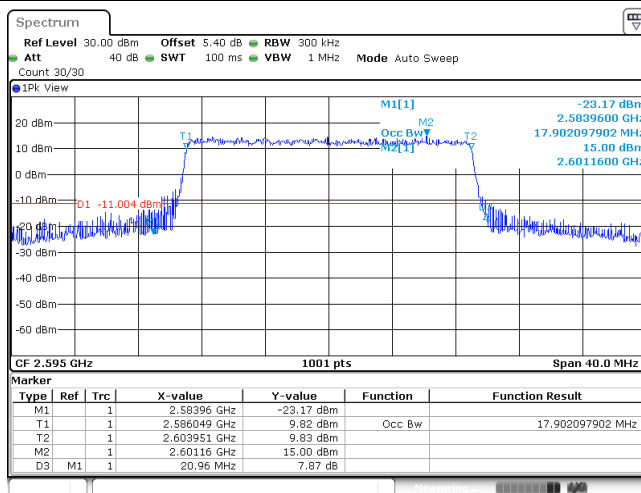


Band38_20MHz_16QAM_37850_100RB#0



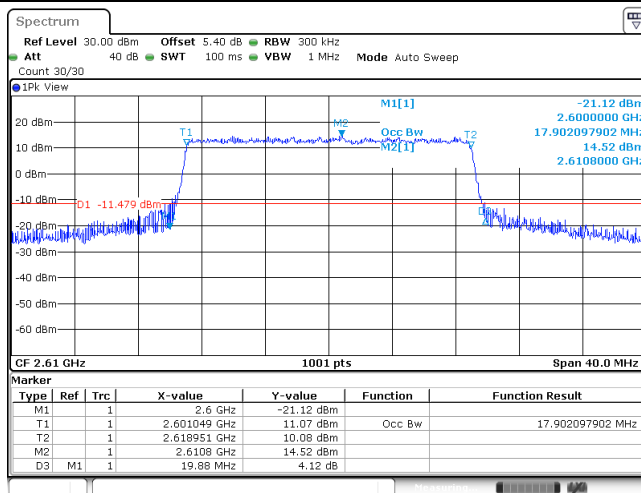
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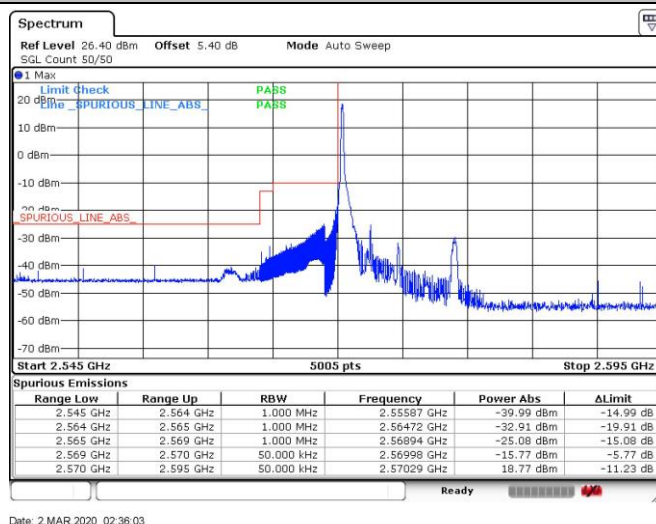
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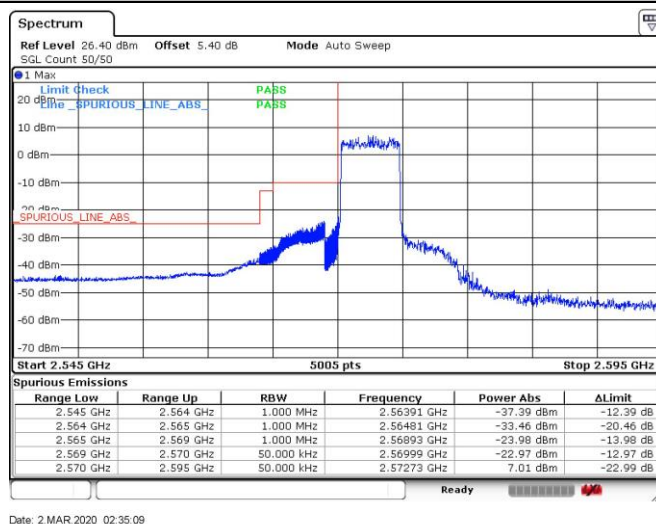
5. Band Edge Compliance

5.1. Test Plots

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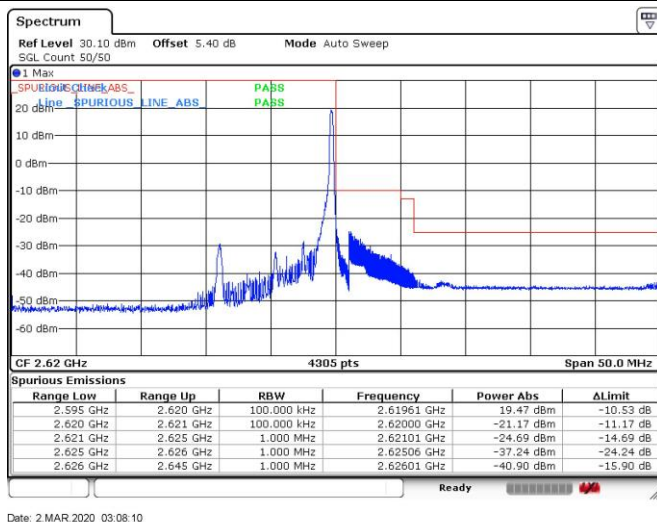


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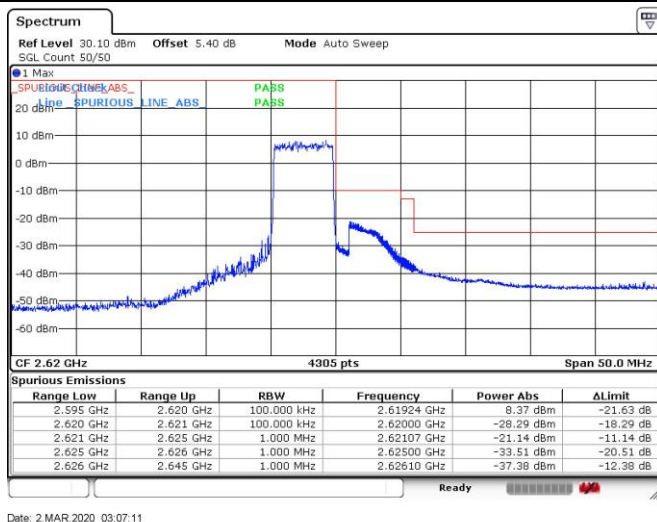


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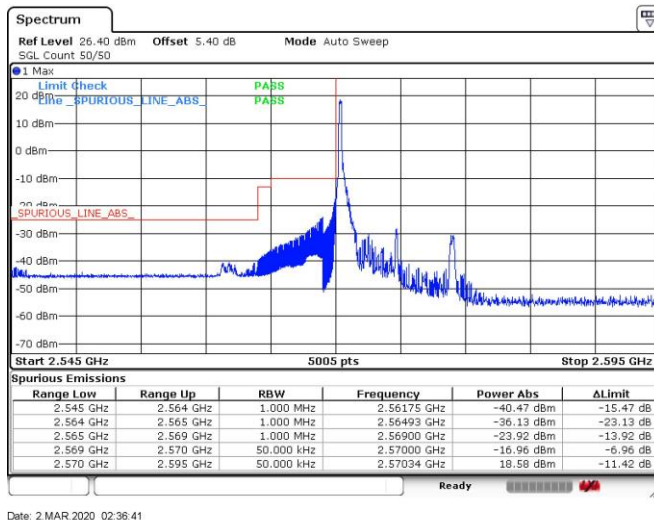


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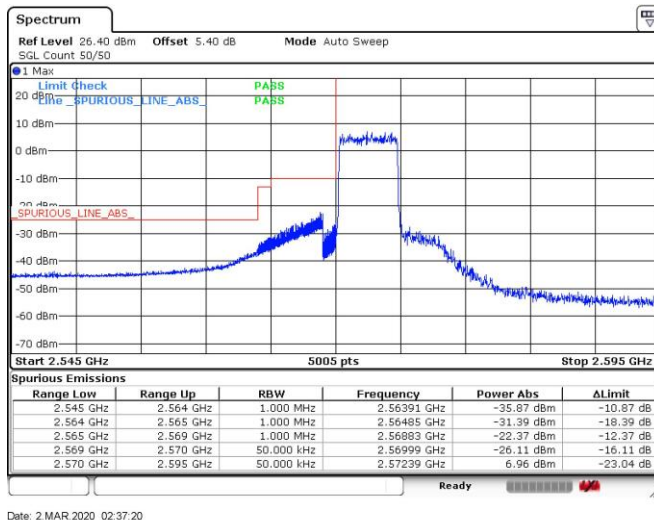


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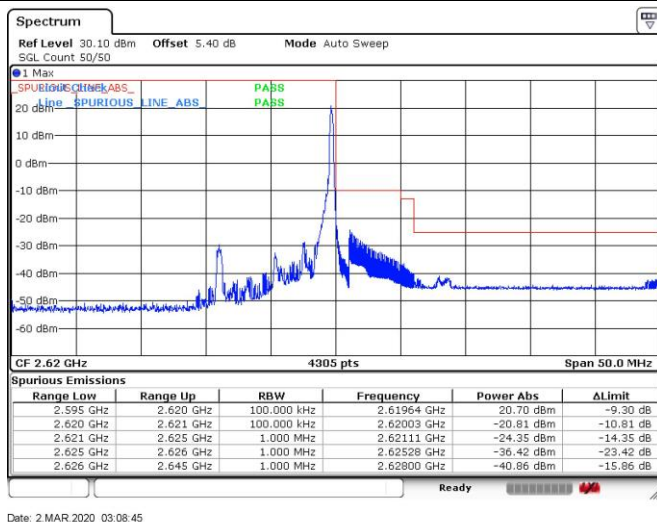


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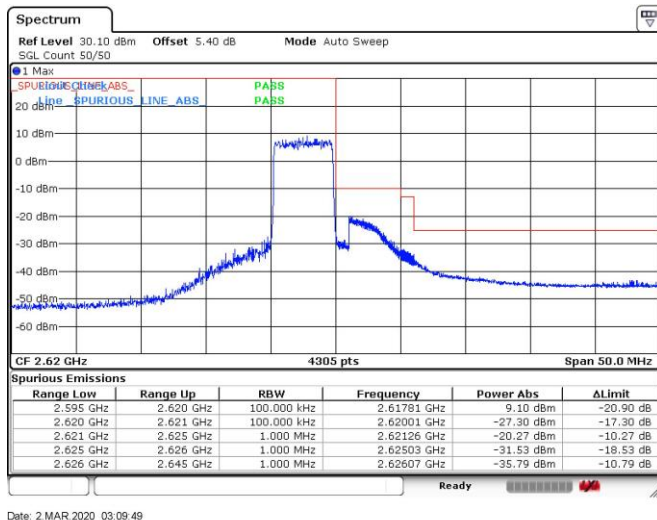


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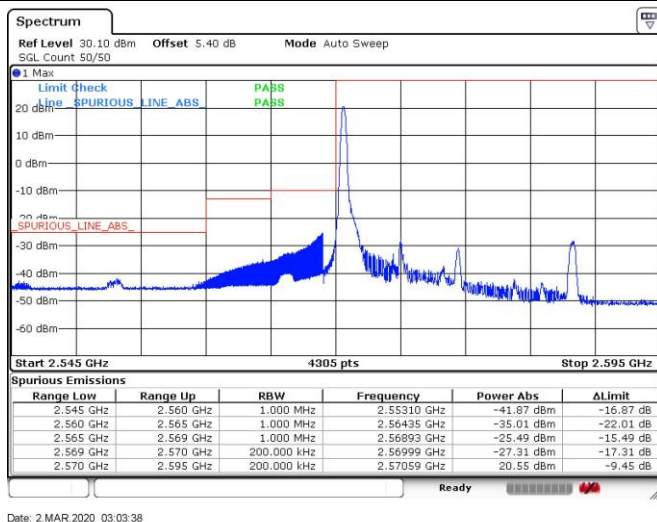


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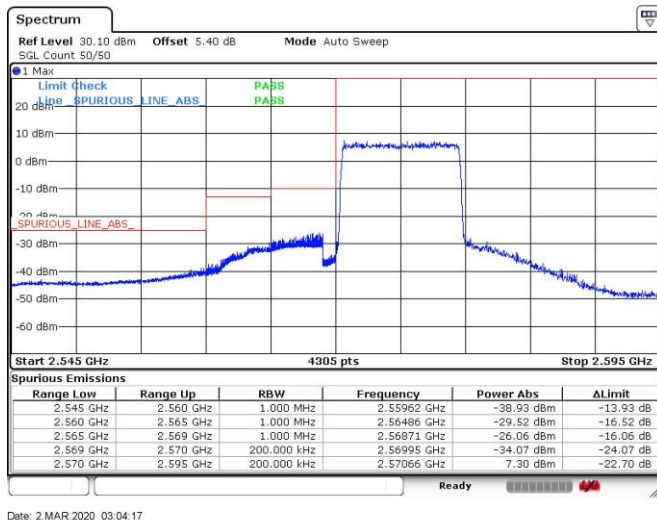


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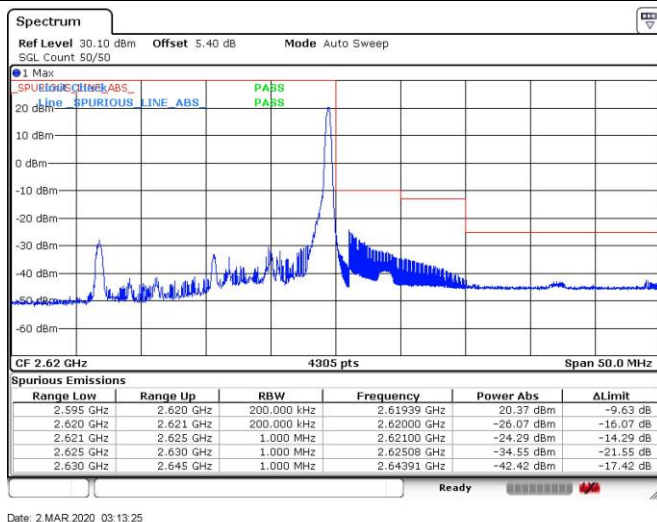


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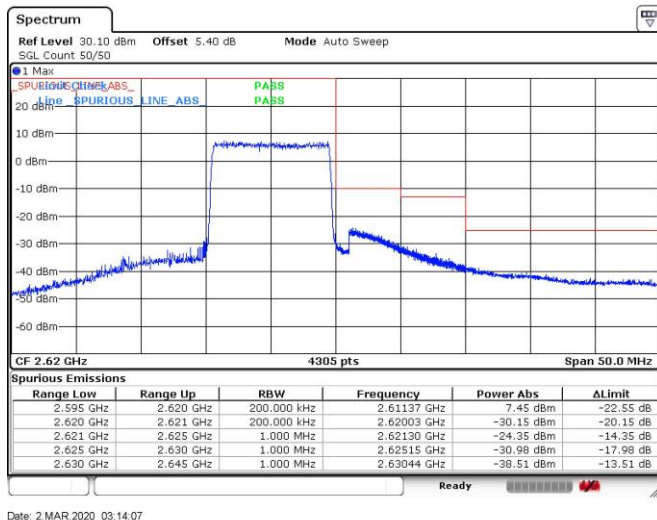


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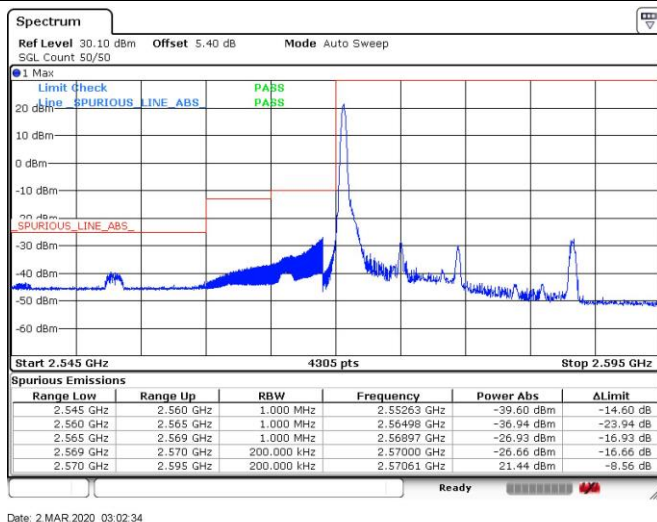


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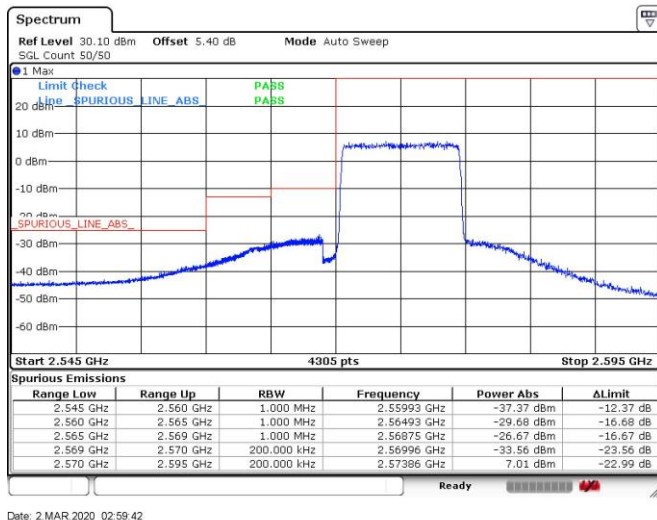


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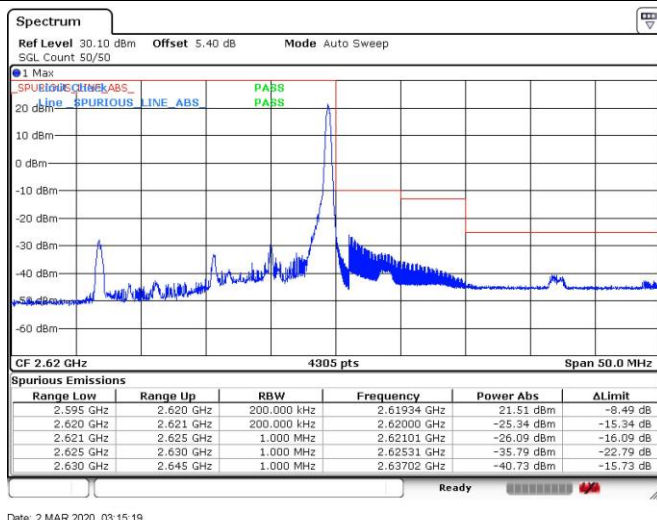


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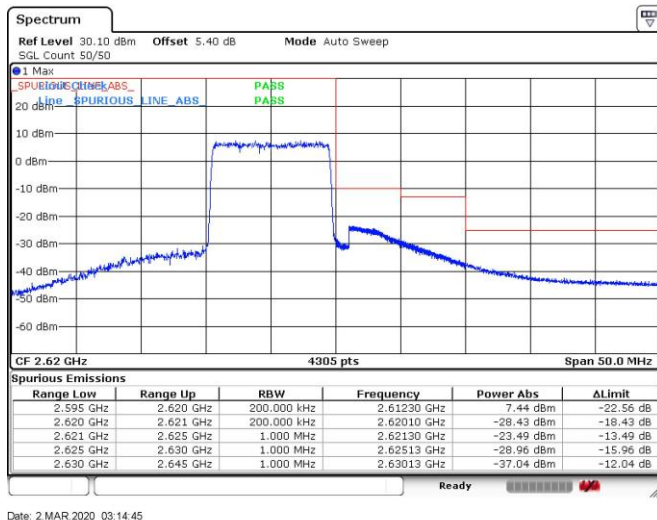


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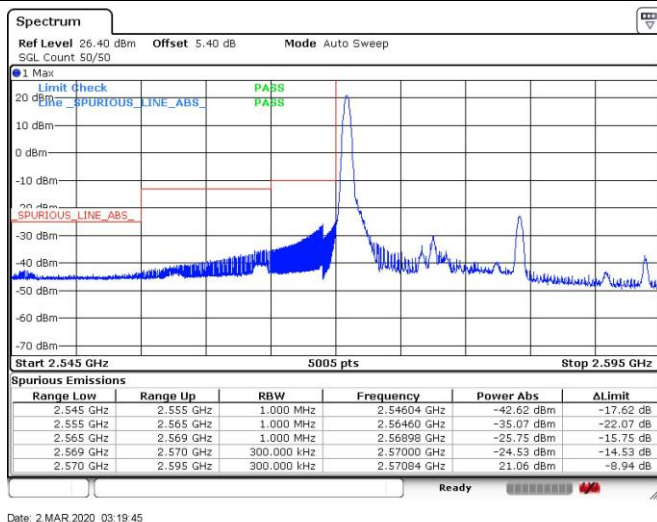


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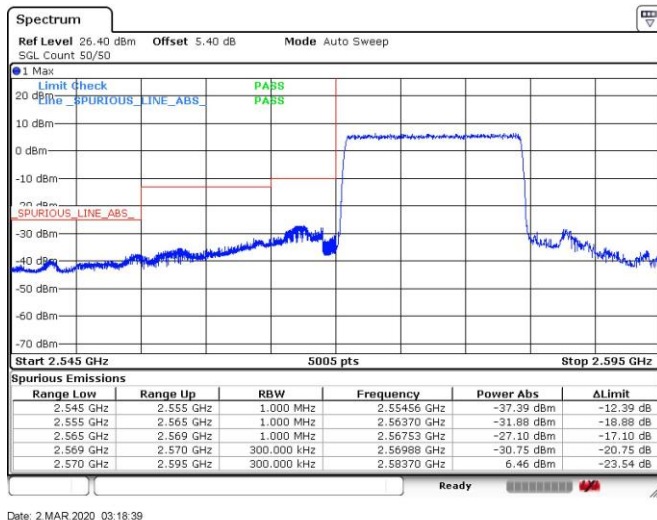


Band38_15MHz_QPSK_37825_1RB#0





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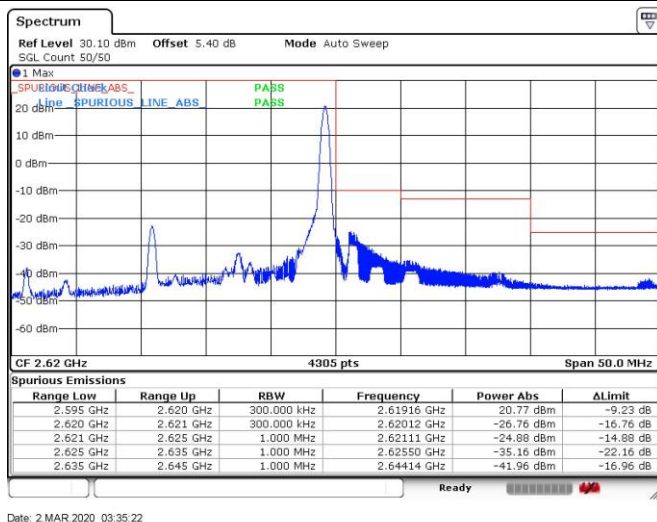


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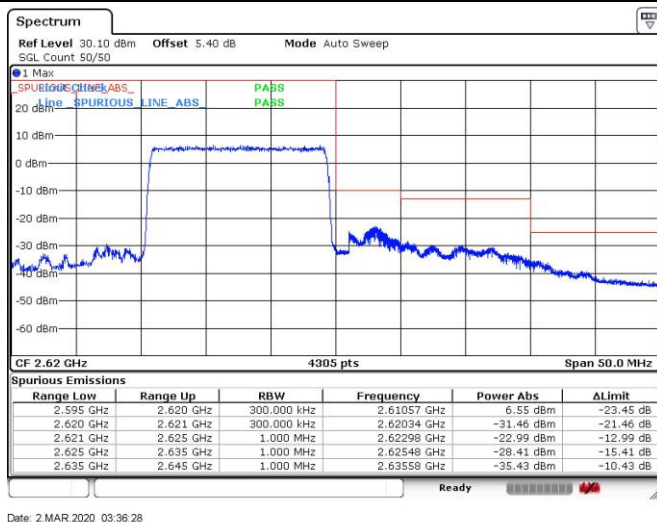


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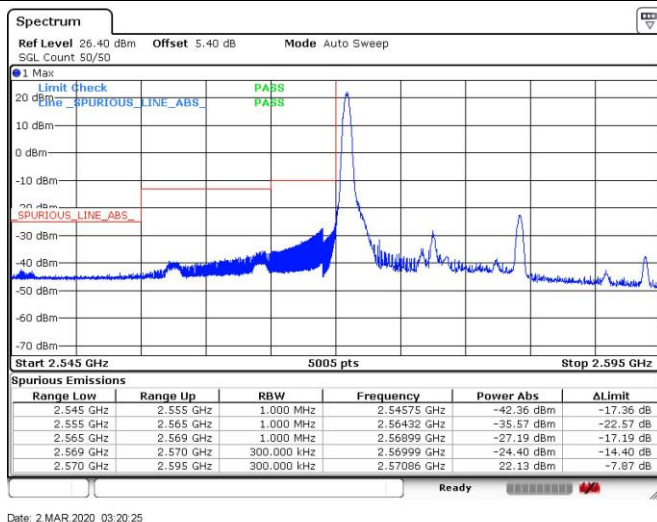


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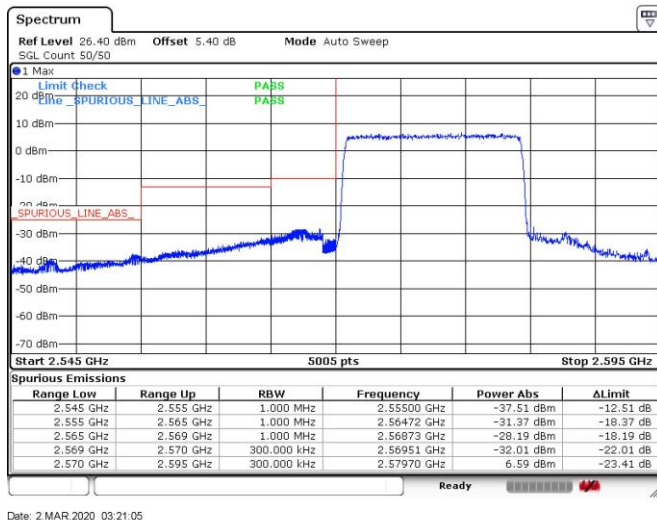


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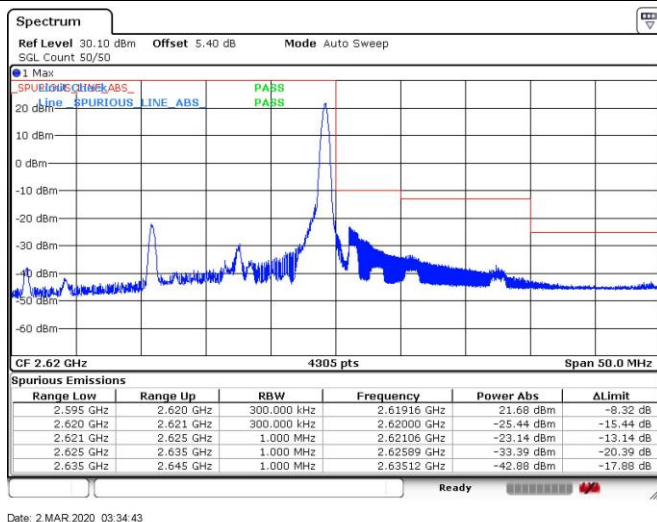


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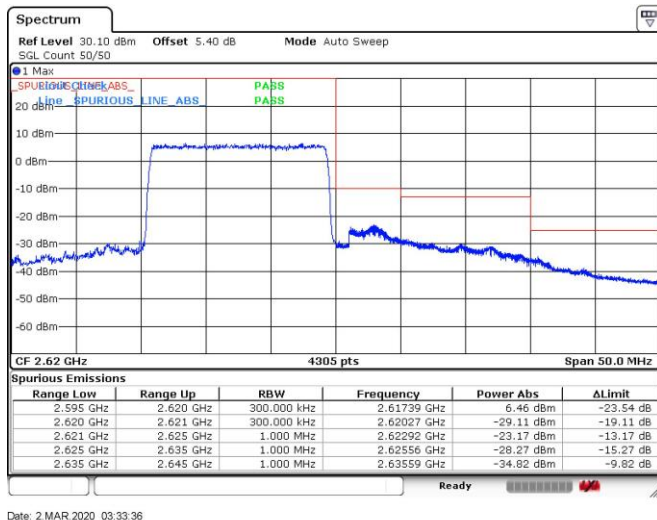


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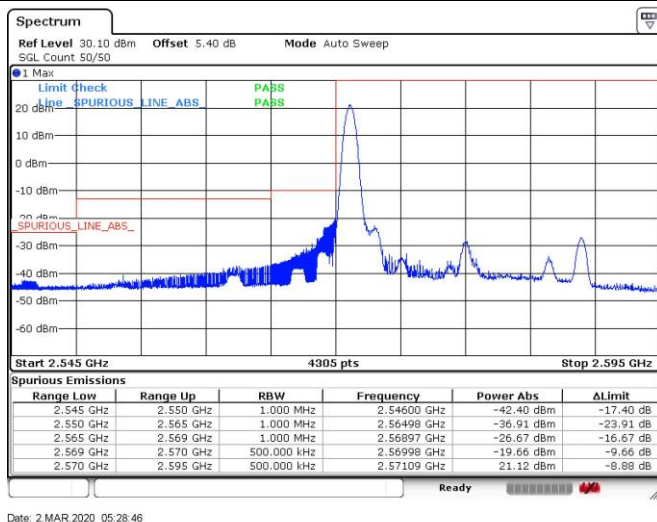


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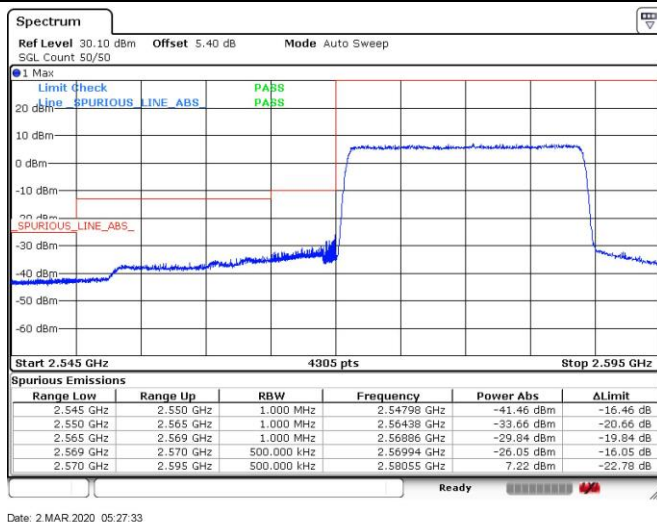


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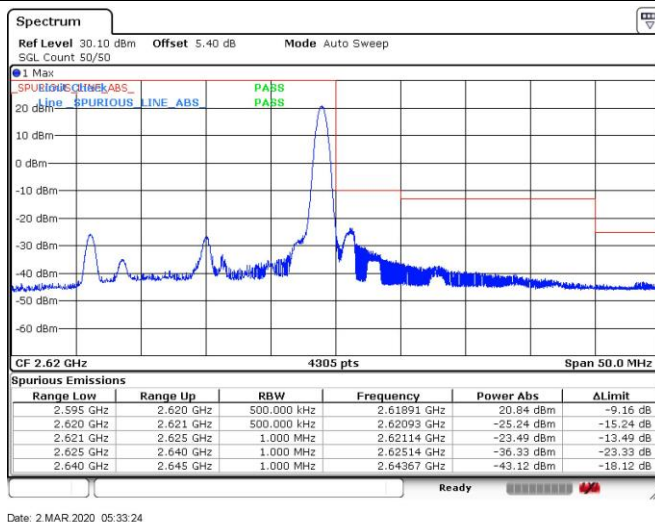


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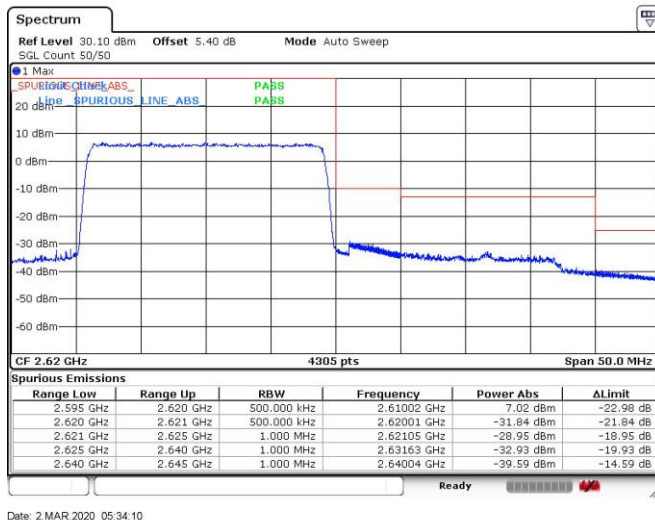


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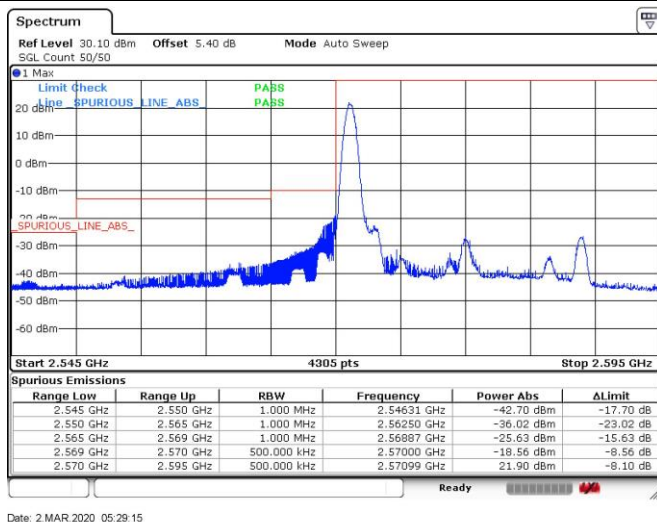


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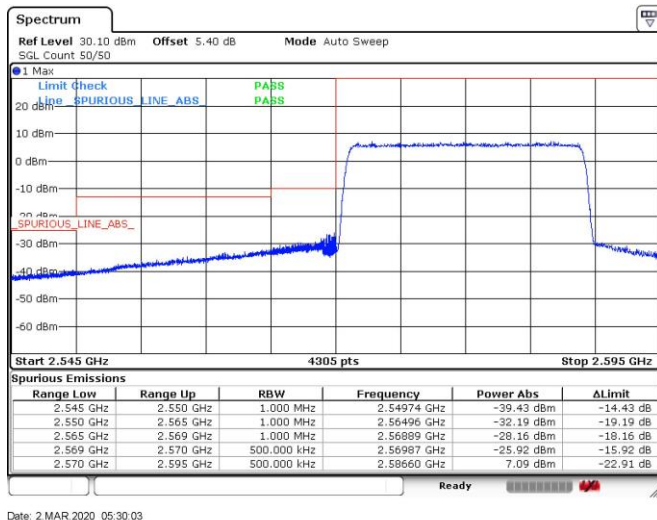


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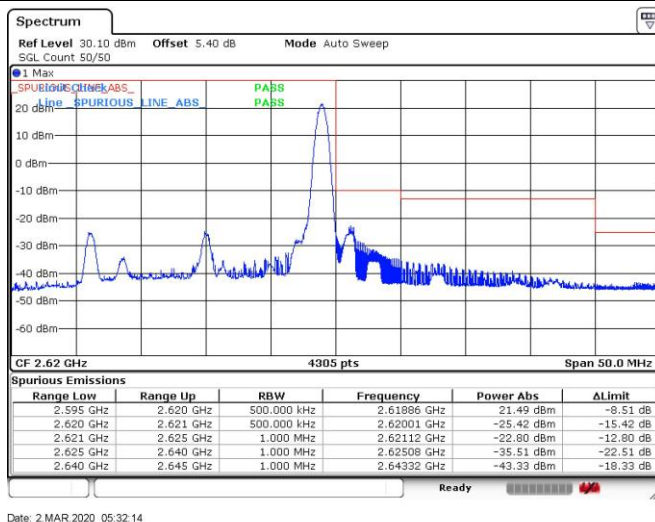


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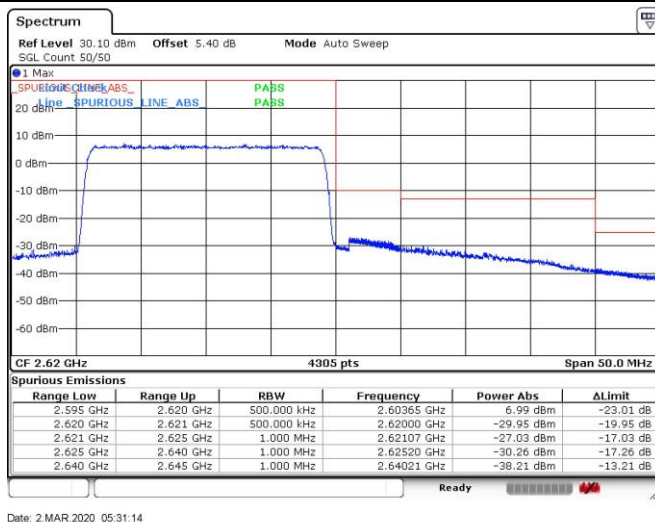


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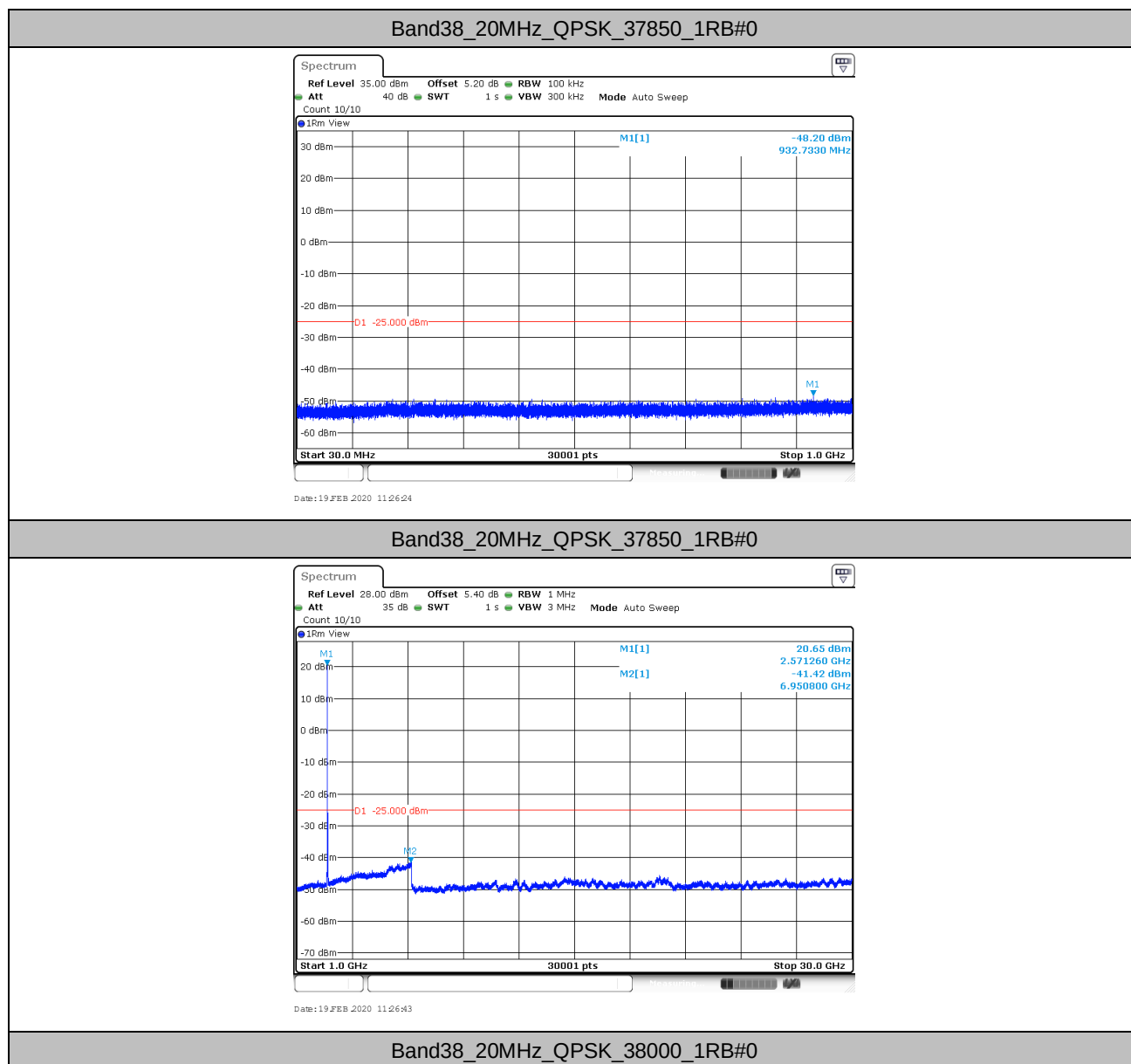


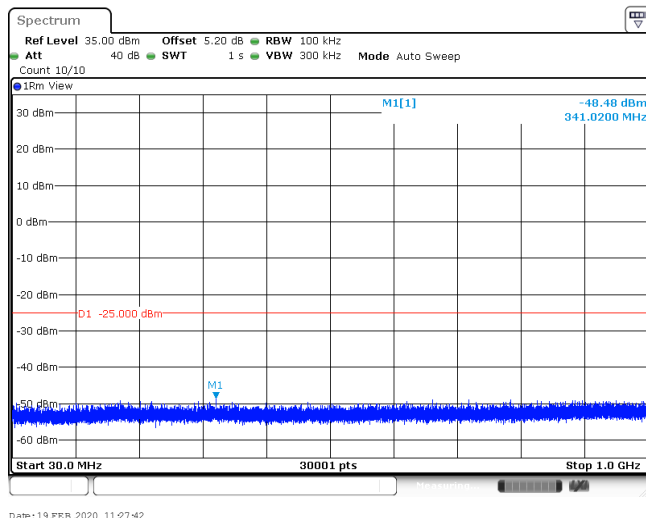
6. Spurious Emission at Antenna Terminal

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

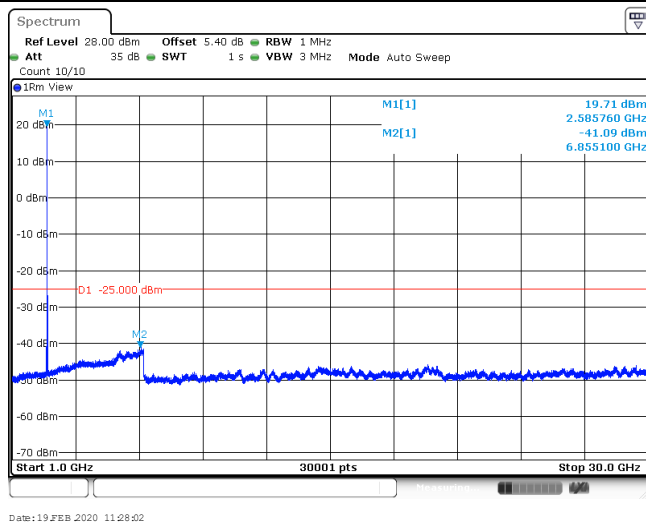
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



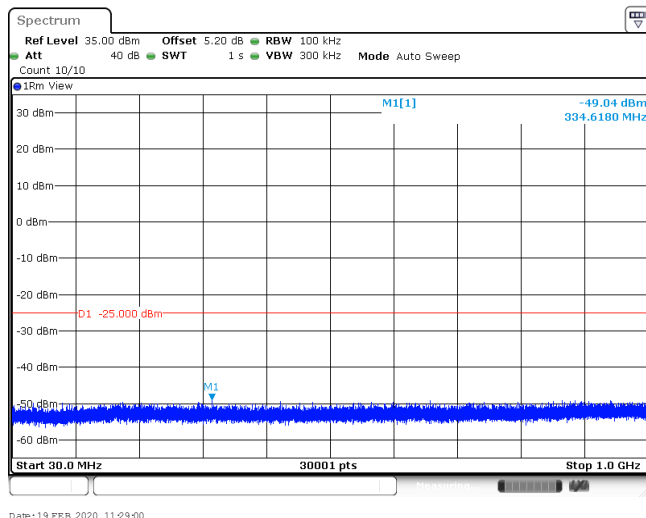


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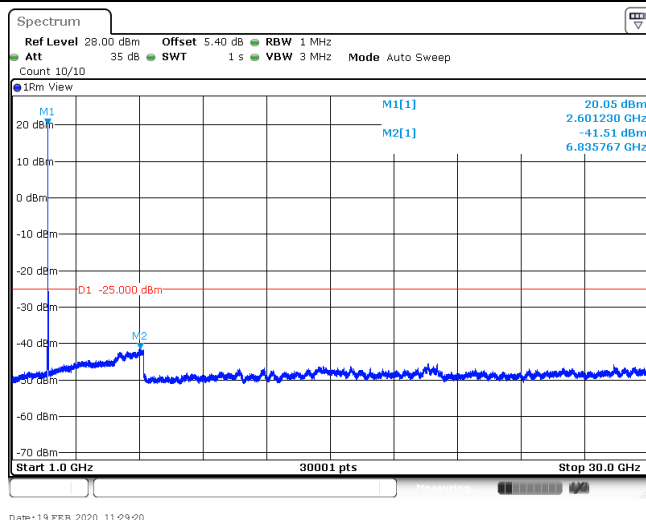


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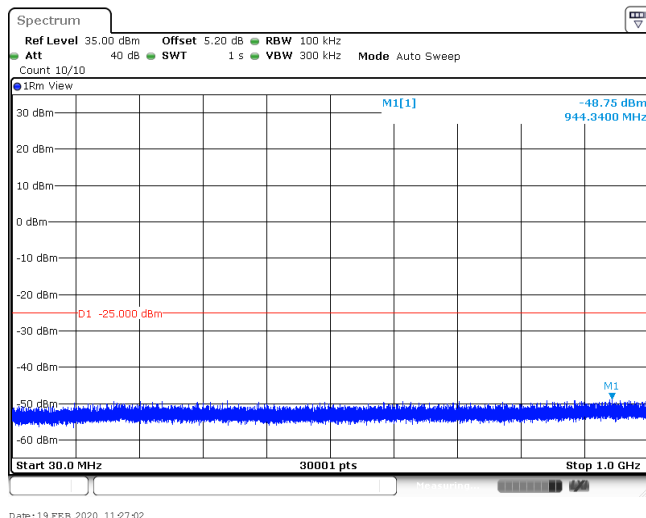


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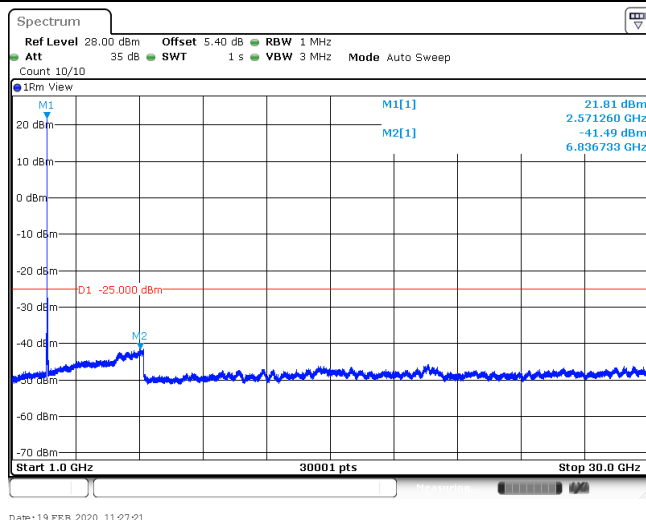


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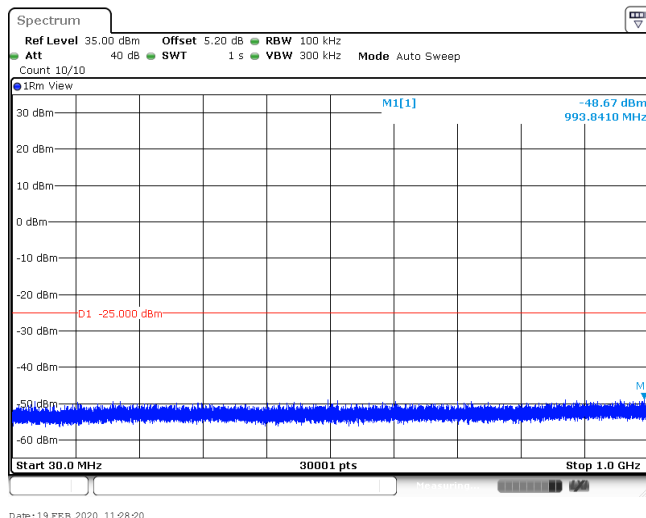


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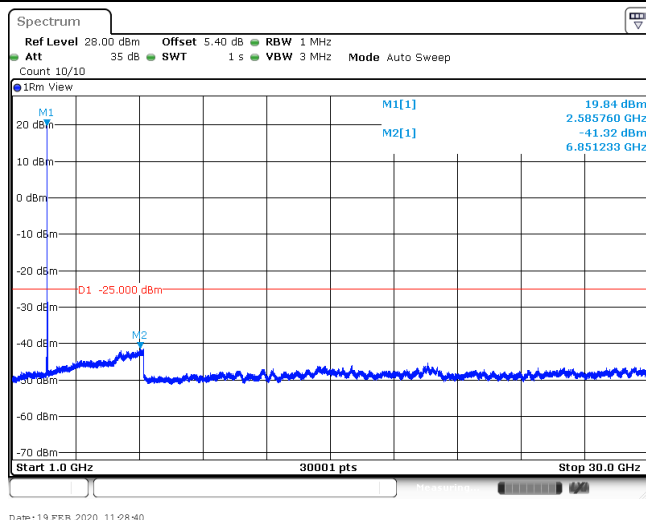


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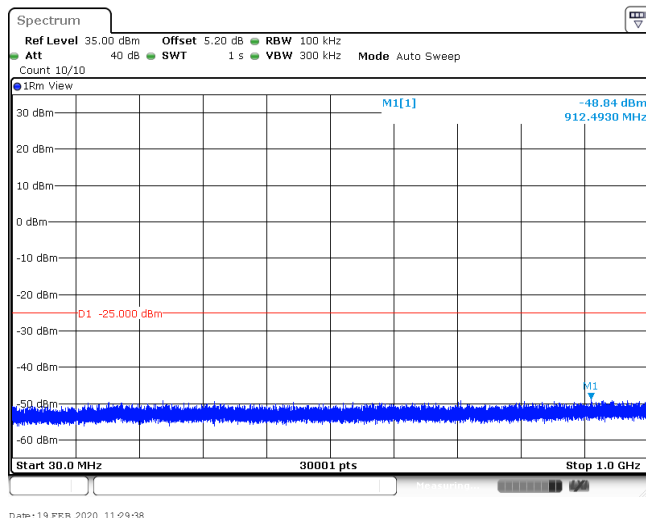


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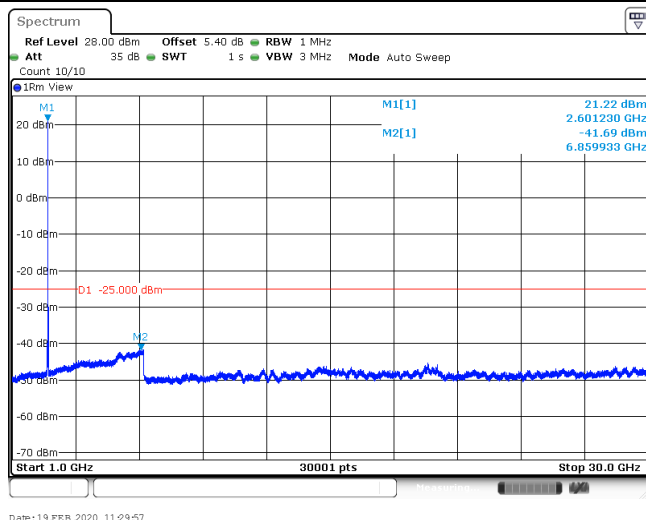


Band38_20MHz_16QAM_38150_1RB#0





Band38_20MHz_16QAM_38150_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 38

7.1.1. Test Mode = LTE/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
65.7463	-67.52	-25.00	42.52	184	31	Vertical
113.0847	-64.18	-25.00	39.18	175	158	Vertical
612.7081	-63.45	-25.00	38.45	169	306	Vertical
2997.1994	-38.14	-25.00	13.14	155	130	Vertical
5172.0724	-52.52	-25.00	27.52	184	331	Vertical
7758.1586	-42.16	-25.00	17.16	168	207	Vertical
45.6663	-63.29	-25.00	38.29	187	277	Horizontal
251.0256	-67.11	-25.00	42.11	152	350	Horizontal
580.5025	-63.74	-25.00	38.74	169	178	Horizontal
2987.9976	-38.35	-25.00	13.35	174	261	Horizontal
5172.0724	-54.97	-25.00	29.97	152	79	Horizontal
7758.1586	-47.39	-25.00	22.39	162	350	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
113.9092	-64.42	-25.00	39.42	271	351	Vertical
388.5299	-68.12	-25.00	43.12	265	228	Vertical
2991.5983	-38.18	-25.00	13.18	148	180	Vertical
5142.5714	-54.18	-25.00	29.18	169	327	Vertical
7713.6571	-43.79	-25.00	18.79	175	104	Vertical
10284.2428	-48.08	-25.00	23.08	198	203	Vertical
43.7747	-63.84	-25.00	38.84	184	179	Horizontal
242.0526	-68.28	-25.00	43.28	175	179	Horizontal
592.5311	-63.91	-25.00	38.91	196	229	Horizontal
2997.5995	-38.38	-25.00	13.38	165	27	Horizontal
7713.1571	-44.97	-25.00	19.97	187	5	Horizontal
16395.4465	-44.37	-25.00	19.37	132	229	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
107.2644	-64.59	-25.00	39.59	222	103	Vertical
294.9687	-68.60	-25.00	43.60	271	227	Vertical
2991.5983	-38.30	-25.00	13.30	265	176	Vertical
5202.0734	-52.85	-25.00	27.85	284	326	Vertical
7803.1601	-43.54	-25.00	18.54	217	103	Vertical
10404.2468	-48.00	-25.00	23.00	265	54	Vertical
44.4052	-63.70	-25.00	38.70	184	155	Horizontal
236.7173	-67.14	-25.00	42.14	175	181	Horizontal
540.3425	-64.79	-25.00	39.79	166	81	Horizontal
2986.3973	-38.39	-25.00	13.39	195	62	Horizontal
7803.1601	-47.06	-25.00	22.06	165	354	Horizontal
16376.4459	-44.16	-25.00	19.16	189	354	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 had been displayed.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





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	-22.20	-0.008605	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-26.68	-0.010341	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-22.30	-0.008643	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-20.81	-0.008019	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-22.87	-0.008813	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-19.45	-0.007495	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-19.96	-0.007648	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-25.82	-0.009893	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-23.82	-0.009126	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-23.76	-0.009209	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-21.87	-0.008477	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-18.25	-0.007074	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-23.45	-0.009037	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-21.29	-0.008204	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-20.13	-0.007757	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-21.69	-0.008310	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-21.70	-0.008314	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-25.22	-0.009663	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-22.69	-0.008795	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-20.70	-0.008023	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-21.89	-0.008484	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-22.60	-0.008760	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-23.67	-0.009174	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-21.04	-0.008155	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-26.14	-0.010132	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-20.73	-0.008035	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-17.95	-0.006917	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-23.26	-0.008963	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-18.73	-0.007218	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-23.20	-0.008940	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-21.62	-0.008331	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-21.11	-0.008135	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-19.47	-0.007503	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-20.59	-0.007934	±2.5	PASS



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Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-25.56	-0.009793	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-20.89	-0.008004	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-24.62	-0.009433	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-24.58	-0.009418	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-23.12	-0.008858	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-19.10	-0.007318	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-20.08	-0.007693	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-23.50	-0.009004	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-17.84	-0.006915	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-20.63	-0.007996	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-21.44	-0.008310	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-16.88	-0.006543	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-23.32	-0.009039	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-30.66	-0.011884	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-25.39	-0.009841	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-20.69	-0.008019	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-24.88	-0.009588	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-20.86	-0.008039	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-25.33	-0.009761	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-18.32	-0.007060	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-21.49	-0.008281	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-18.84	-0.007260	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-22.29	-0.008590	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-16.44	-0.006335	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-19.53	-0.007483	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-23.82	-0.009126	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-20.17	-0.007728	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-26.35	-0.010096	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-20.84	-0.007985	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-20.04	-0.007678	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-26.97	-0.010333	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-26.02	-0.009969	±2.5	PASS

The End

