

Report No.: SEWM2206000086RG01

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Appendix B.3

LTE Band 38



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(Wireless Laboratory)

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.53	23	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.52	22.99	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.52	22.99	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	23.12	22.59	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.66	23.13	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.65	23.12	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.68	23.15	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	23.20	22.67	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.61	23.08	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.56	23.03	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.60	23.07	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	23.20	22.67	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	23.27	22.74	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	23.18	22.65	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	23.41	22.88	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	22.20	21.67	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	23.49	22.96	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	23.52	22.99	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	23.41	22.88	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	22.20	21.67	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	23.43	22.9	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.47	22.94	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	23.29	22.76	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	22.23	21.7	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	22.17	21.64	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	22.12	21.59	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	22.16	21.63	33	PASS



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Band38	5MHz	64QAM	37775	25RB#0	21.28	20.75	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	22.24	21.71	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	22.29	21.76	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	22.28	21.75	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	21.22	20.69	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	22.17	21.64	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	22.19	21.66	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	22.19	21.66	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	21.30	20.77	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.47	22.94	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.58	23.05	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.57	23.04	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	23.18	22.65	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.70	23.17	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.74	23.21	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.56	23.03	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	23.22	22.69	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.65	23.12	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.61	23.08	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.51	22.98	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	23.25	22.72	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	23.26	22.73	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	23.29	22.76	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	23.34	22.81	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	22.27	21.74	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	23.48	22.95	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	23.39	22.86	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	23.42	22.89	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	22.22	21.69	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	23.44	22.91	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.32	22.79	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	23.32	22.79	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	22.33	21.8	33	PASS



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Band38	10MHz	64QAM	37800	1RB#0	22.10	21.57	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	22.14	21.61	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	22.17	21.64	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	21.26	20.73	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	22.25	21.72	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	22.25	21.72	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	22.21	21.68	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	21.33	20.8	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	22.26	21.73	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	22.20	21.67	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	22.16	21.63	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	21.26	20.73	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.30	22.77	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.38	22.85	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.45	22.92	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	23.07	22.54	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.43	22.9	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.52	22.99	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.47	22.94	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	23.06	22.53	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.45	22.92	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.43	22.9	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.38	22.85	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	23.10	22.57	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.21	22.68	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	23.30	22.77	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	23.35	22.82	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.10	21.57	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	23.31	22.78	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	23.40	22.87	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	23.33	22.8	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	22.11	21.58	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	23.32	22.79	33	PASS



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Band38	15MHz	16QAM	38175	1RB#38	23.31	22.78	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	23.29	22.76	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	22.11	21.58	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.85	21.32	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.97	21.44	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	22.06	21.53	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	21.11	20.58	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	22.01	21.48	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	22.07	21.54	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.96	21.43	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	21.09	20.56	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.99	21.46	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.99	21.46	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.92	21.39	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	21.10	20.57	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.35	22.82	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.43	22.9	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.44	22.91	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	23.07	22.54	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.43	22.9	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.52	22.99	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.44	22.91	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	23.07	22.54	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.45	22.92	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.41	22.88	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.39	22.86	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	23.09	22.56	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	23.19	22.66	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	23.31	22.78	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	23.34	22.81	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.16	21.63	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	23.35	22.82	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	23.39	22.86	33	PASS



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Band38	20MHz	16QAM	38000	1RB#99	23.31	22.78	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	22.10	21.57	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	23.35	22.82	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	23.30	22.77	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	23.24	22.71	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	22.10	21.57	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.82	21.29	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	22.01	21.48	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	22.05	21.52	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	21.13	20.6	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.99	21.46	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	22.08	21.55	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.94	21.41	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	21.10	20.57	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	22.02	21.49	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	22.02	21.49	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.89	21.36	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	21.11	20.58	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	8.90	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.82	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.86	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.90	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.68	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.58	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	10.26	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	10.12	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	10.04	13	PASS



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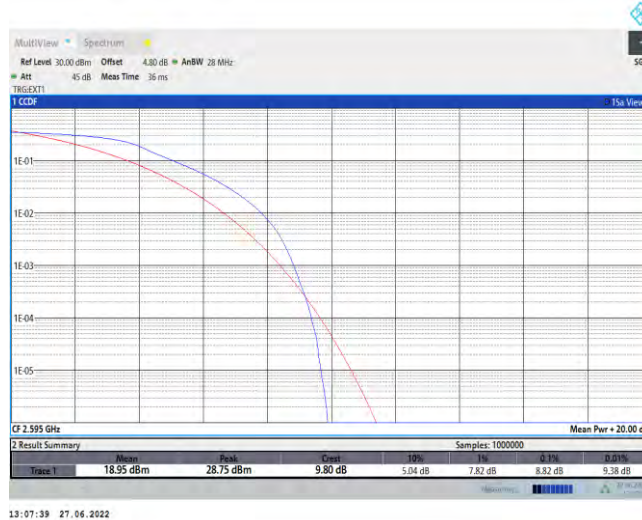
Test Graphs

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



13:06:17 27.06.2022

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



13:07:39 27.06.2022



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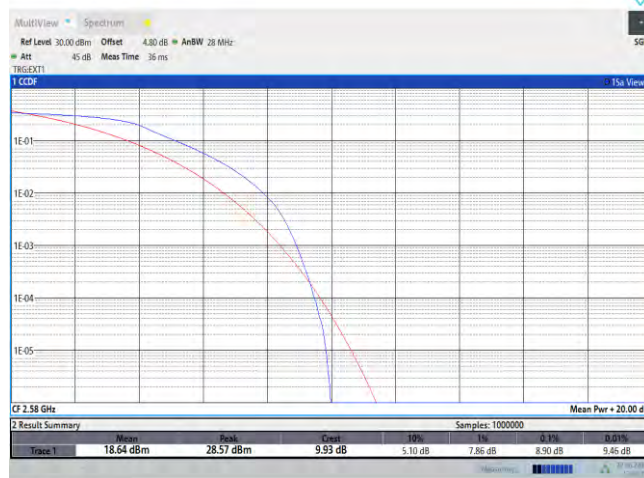
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Band38-20MHz-QPSK-38150-100RB#0



13:08:58 27.06.2022

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



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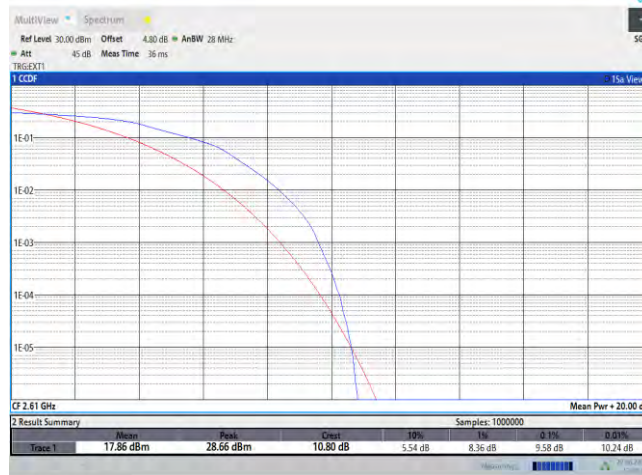
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Band38-20MHz-16QAM-38000-100RB#0



13:08:11 27.06.2022

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



13:09:20 27.06.2022

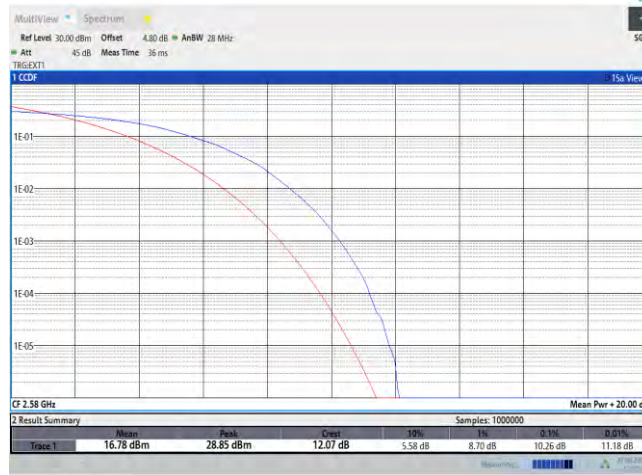


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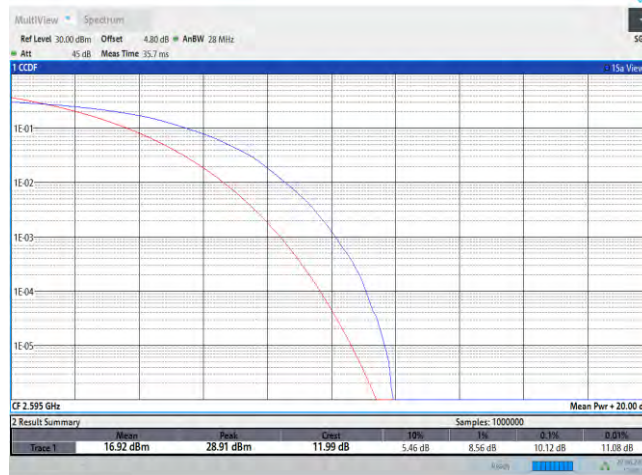
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Band38-20MHz-64QAM-37850-100RB#0



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



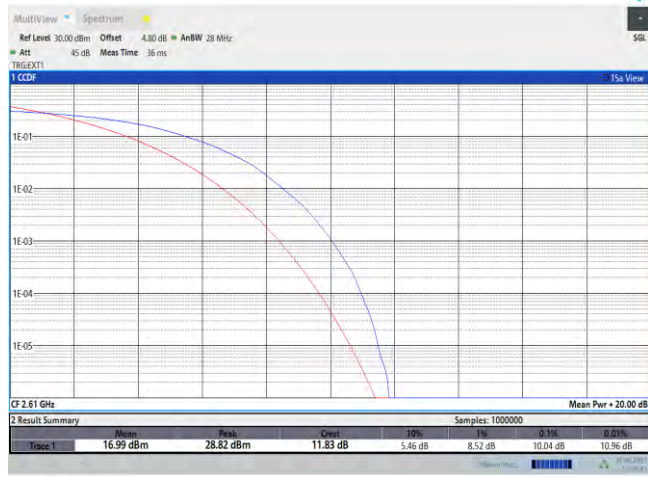
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Band38-20MHz-64QAM-38150-100RB#0



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Rev.: 01

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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



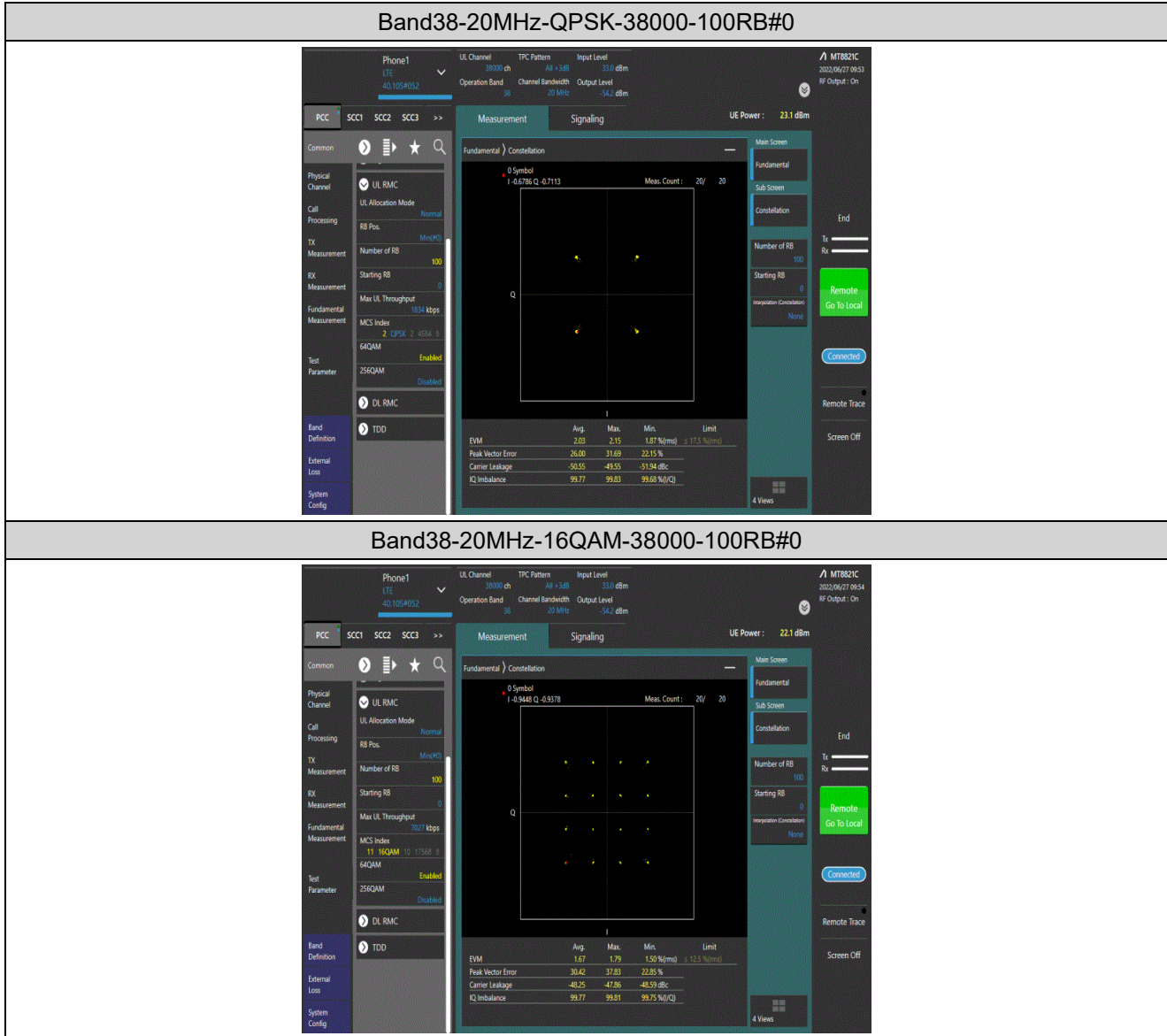
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Test Graphs

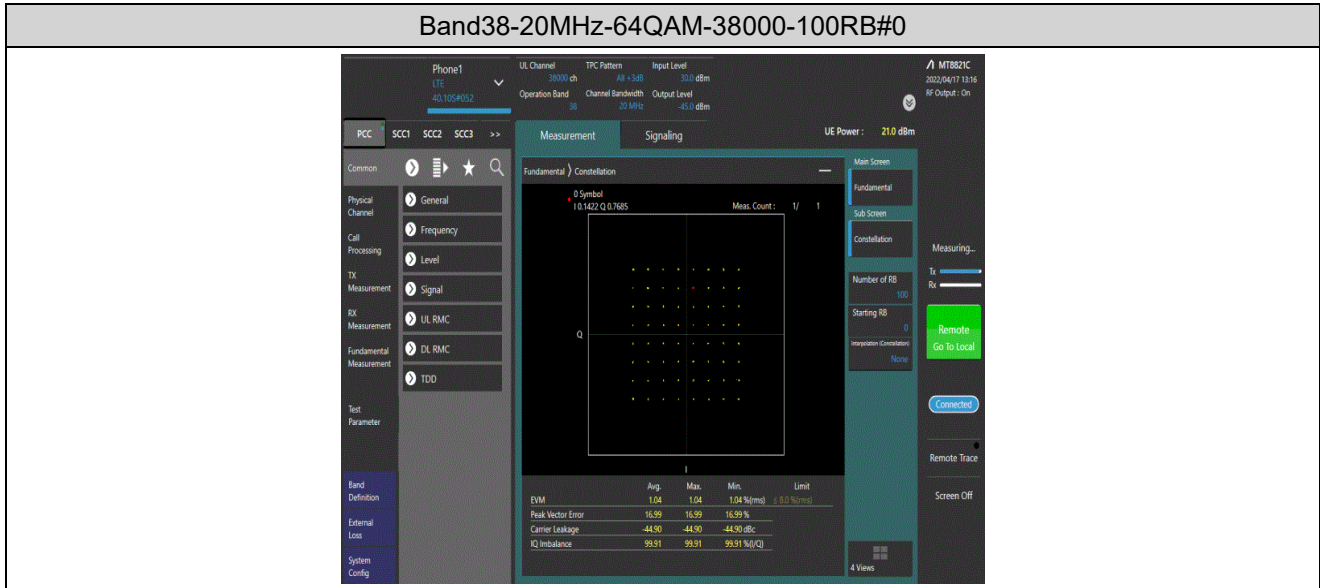


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.477	4.89	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.90	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.477	4.89	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.471	4.94	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.468	4.94	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.469	4.92	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.471	4.84	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.481	4.85	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.475	4.96	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.929	9.70	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.927	9.70	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.928	9.80	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.932	9.64	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.940	9.62	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.928	9.60	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.936	9.66	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.946	9.60	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.929	9.64	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.516	16.17	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.501	16.05	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.497	15.99	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.456	15.36	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.465	15.48	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.480	15.39	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.461	14.97	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.447	15.36	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.442	14.85	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.944	19.80	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.929	20.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.927	19.84	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.891	19.76	PASS



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Band38	20MHz	16QAM	38000	100RB#0	17.871	20.20	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.893	20.16	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.892	20.60	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.895	19.92	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.898	19.72	PASS



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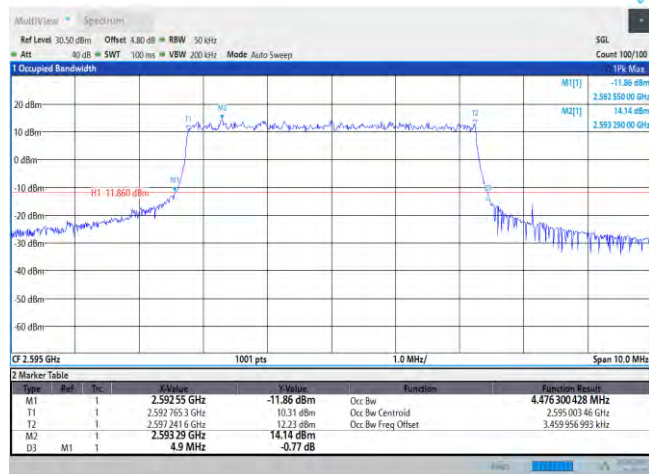
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Test Graphs

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



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



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



19:47:30 26.06.2022

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



19:45:34 26.06.2022



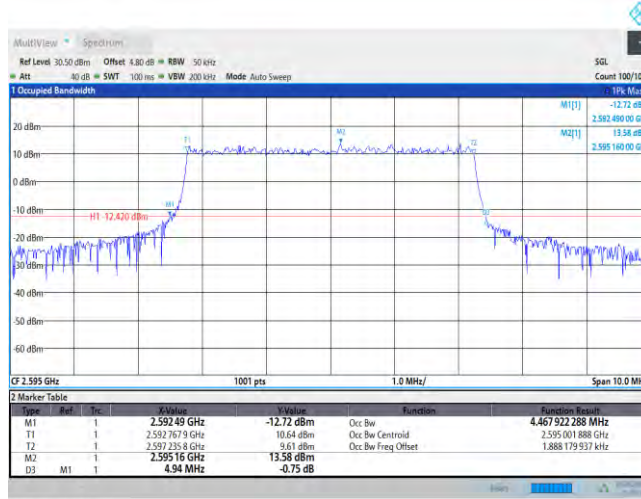
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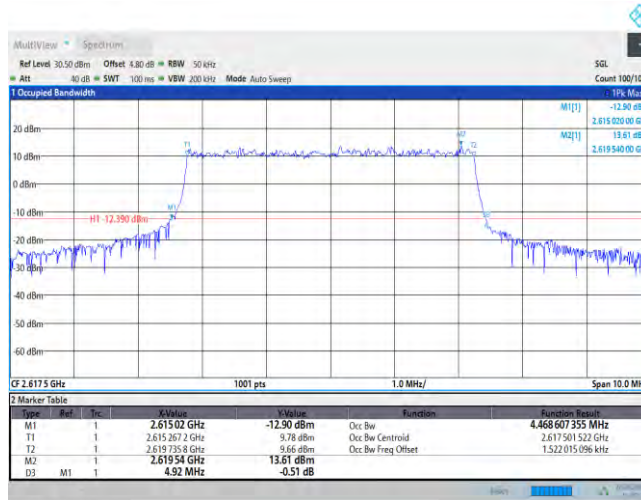
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Band38-5MHz-16QAM-38000-25RB#0



19:46:44 26.06.2022

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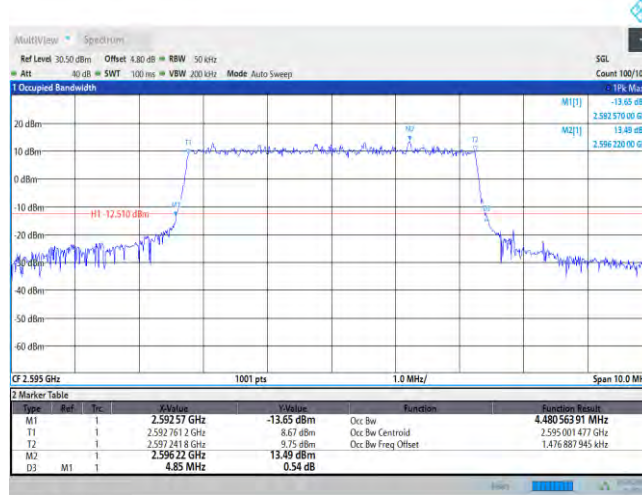
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Band38-5MHz-64QAM-37775-25RB#0



19:45:57 26.06.2022

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



19:47:07 26.06.2022



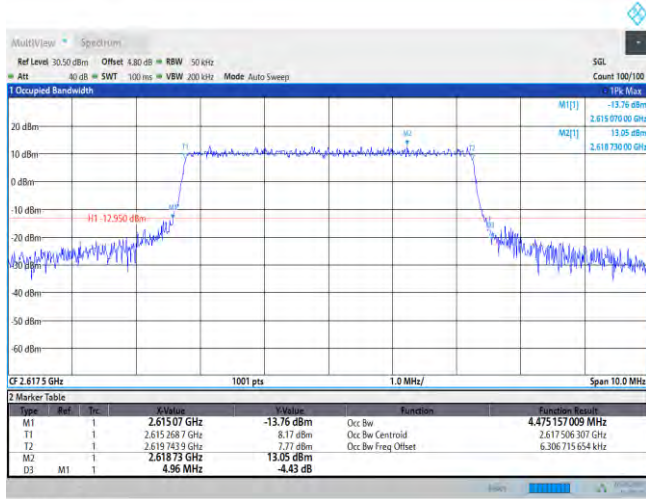
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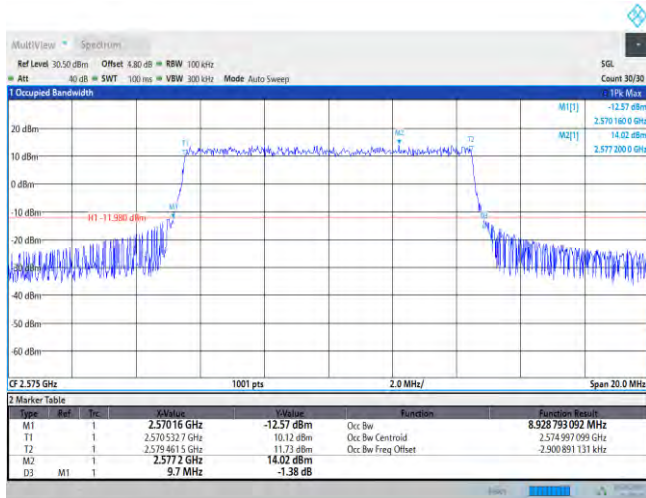
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Band38-5MHz-64QAM-38225-25RB#0



19:48:16 26.06.2022

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

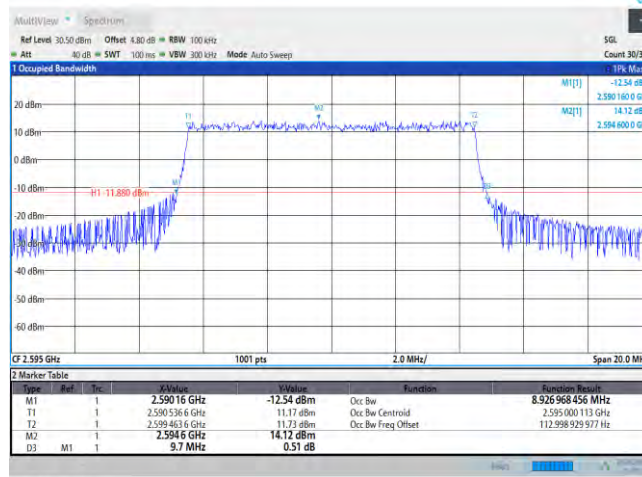


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Band38-10MHz-QPSK-38000-50RB#0



19:49:36 26.06.2022

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



19:50:24 26.06.2022



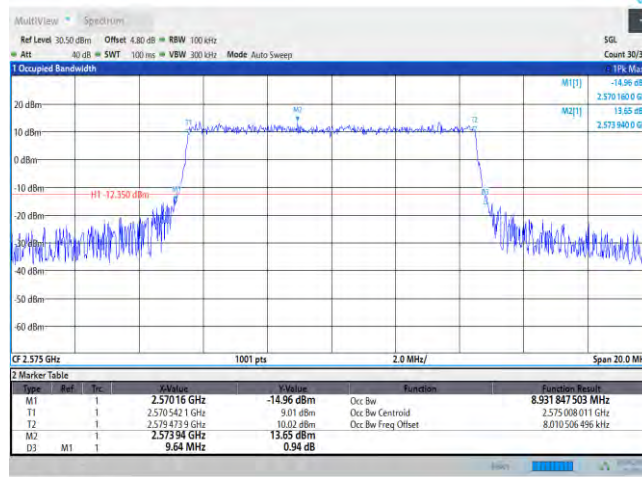
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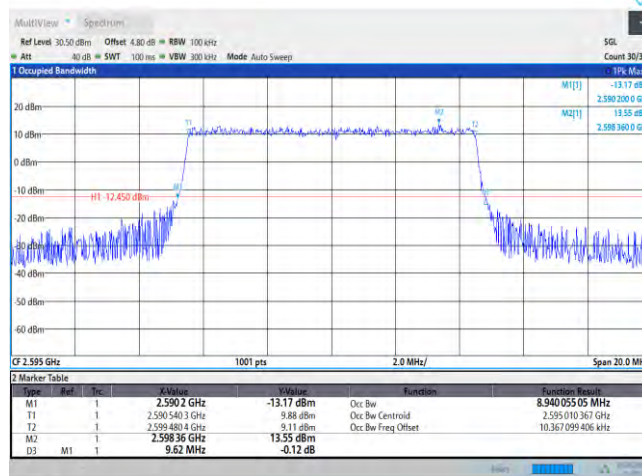
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Band38-10MHz-16QAM-37800-50RB#0



19:49:03 26.06.2022

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



19:49:52 26.06.2022



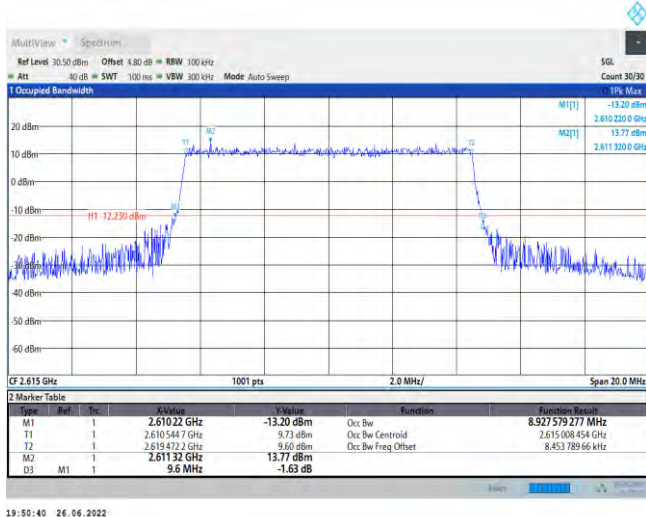
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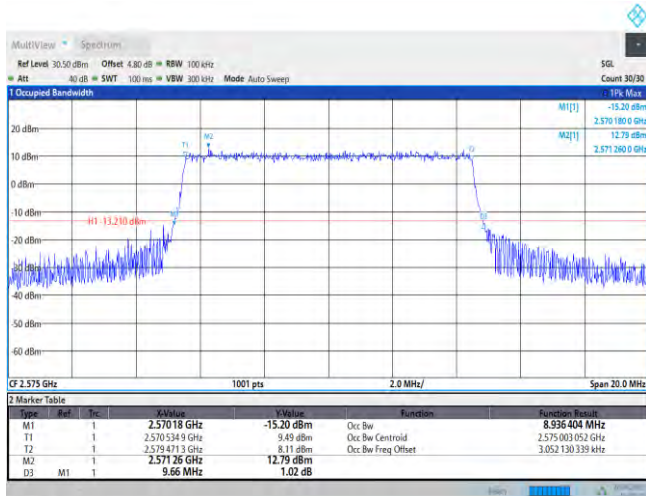
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Band38-10MHz-16QAM-38200-50RB#0



19:50:40 26.06.2022

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

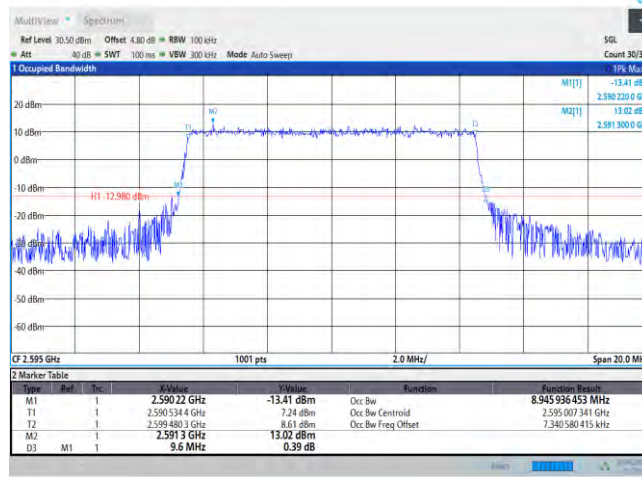


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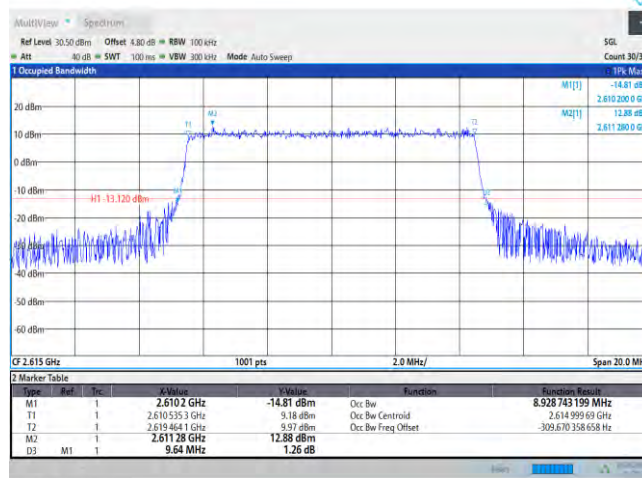
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Band38-10MHz-64QAM-38000-50RB#0



19:50:08 26.06.2022

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



19:50:56 26.06.2022



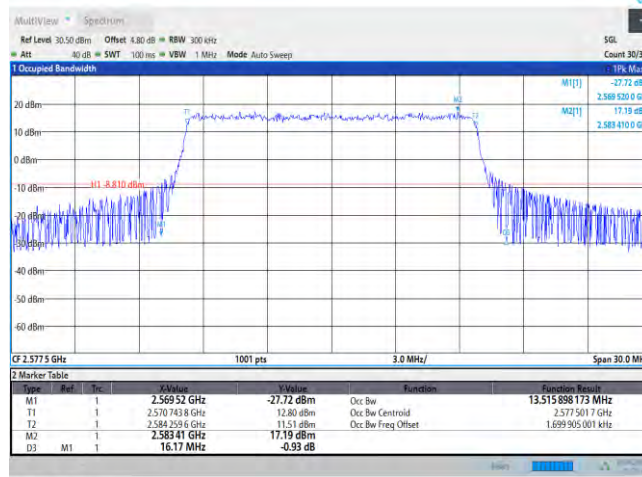
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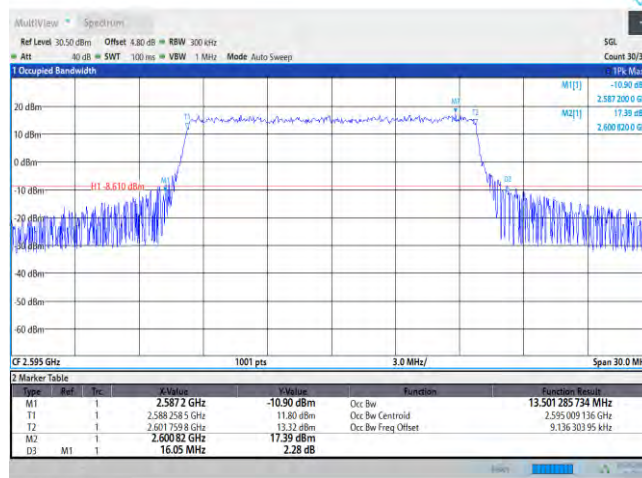
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Band38-15MHz-QPSK-37825-75RB#0



19:51:45 26.06.2022

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



19:52:34 26.06.2022



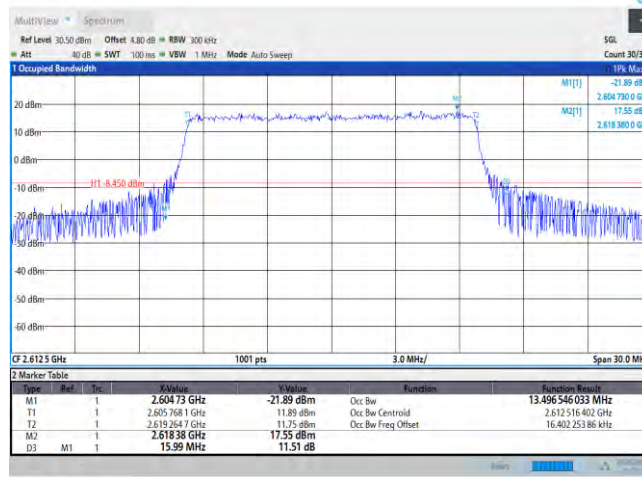
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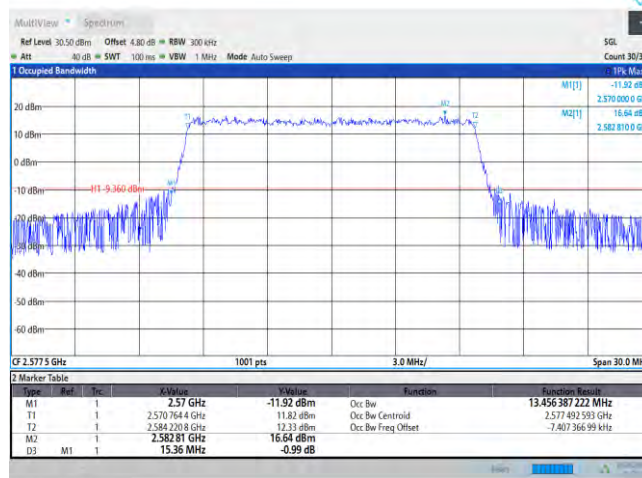
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Band38-15MHz-QPSK-38175-75RB#0



19:53:22 26.06.2022

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



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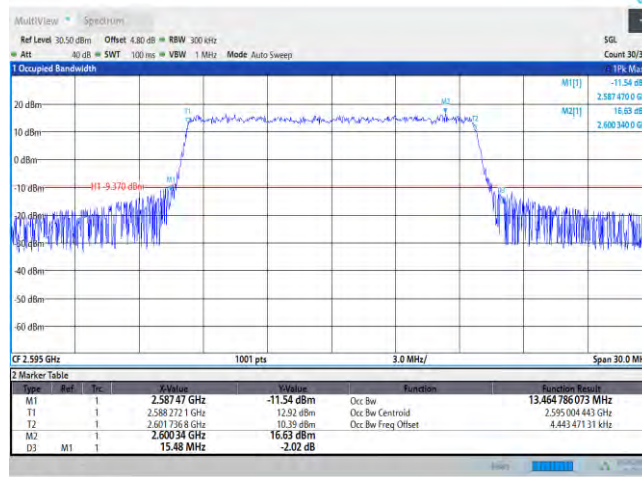
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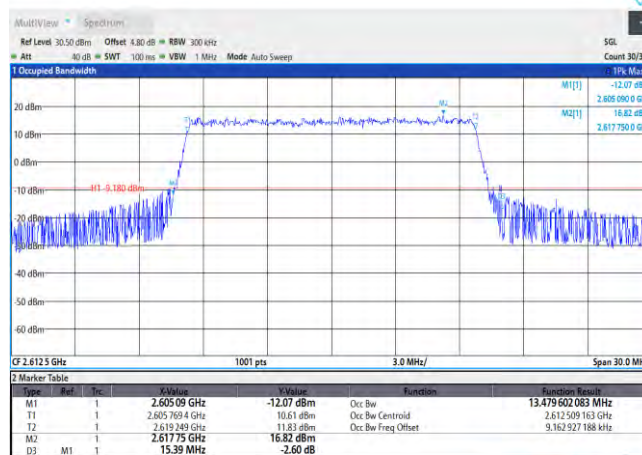
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Band38-15MHz-16QAM-38000-75RB#0



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



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



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



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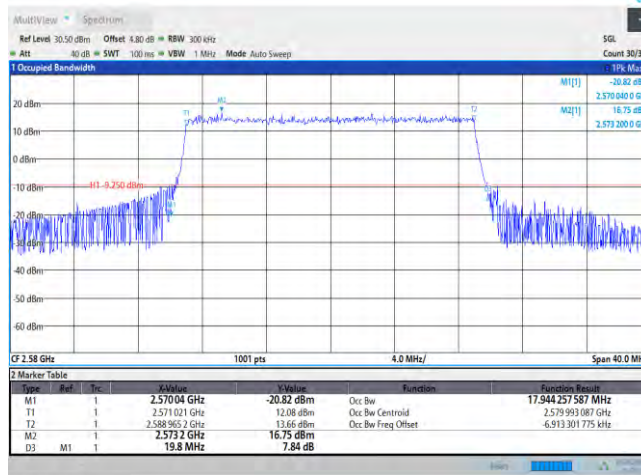
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19:53:55 26.06.2022

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



19:54:25 26.06.2022

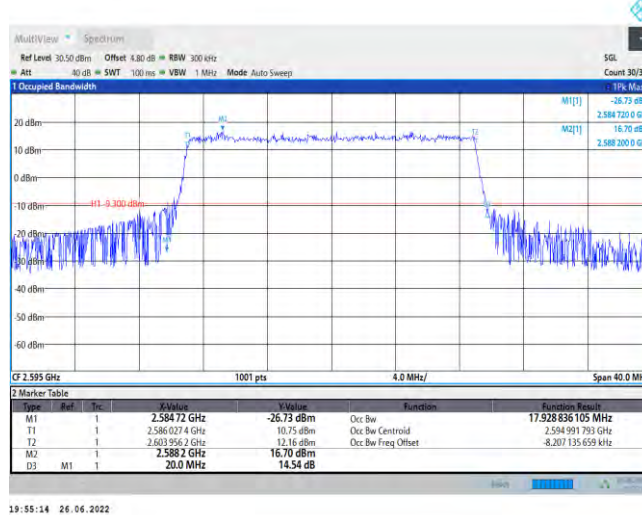


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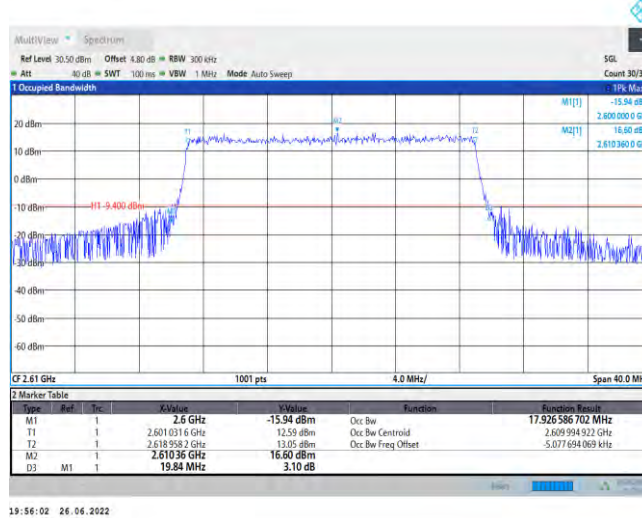
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Band38-20MHz-QPSK-38150-100RB#0

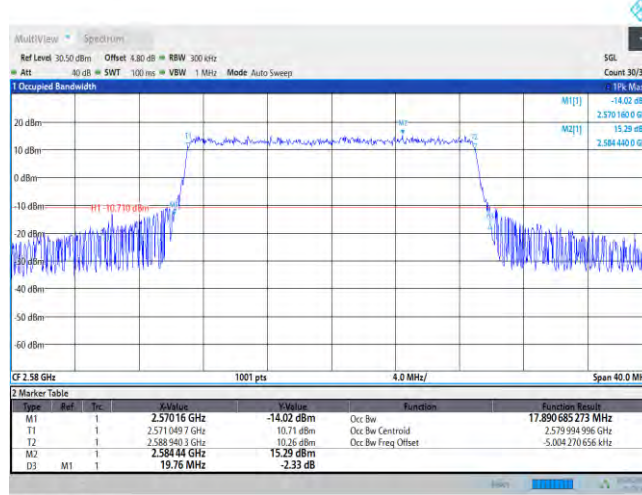


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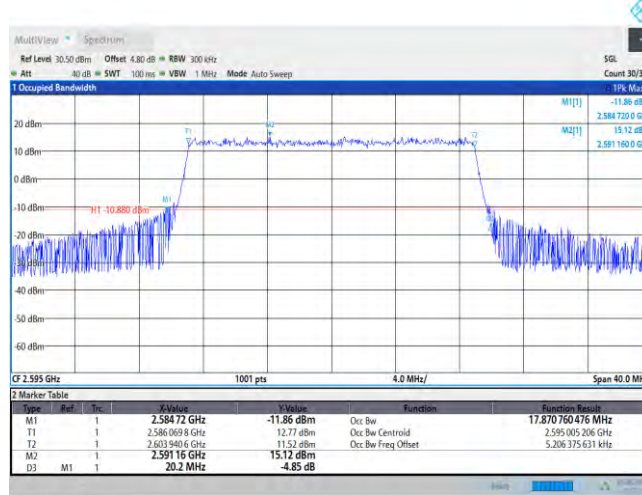
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Band38-20MHz-16QAM-37850-100RB#0



19:54:41 26.06.2022

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



19:55:30 26.06.2022



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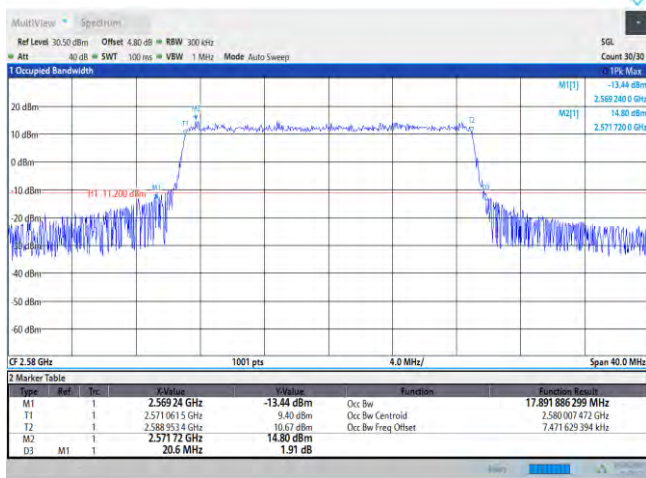
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Band38-20MHz-16QAM-38150-100RB#0



19:56:18 26.06.2022

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

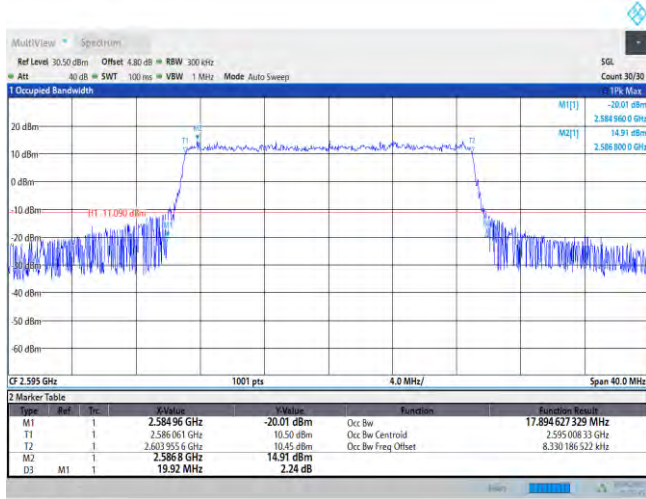


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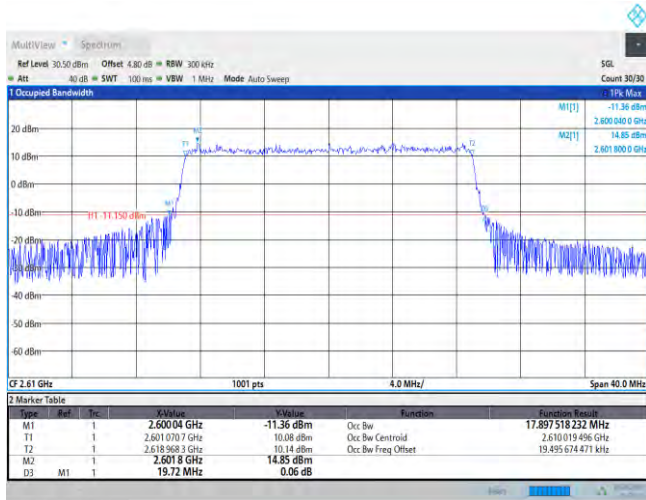
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Band38-20MHz-64QAM-38000-100RB#0



19:55:46 26.06.2022

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



19:56:35 26.06.2022

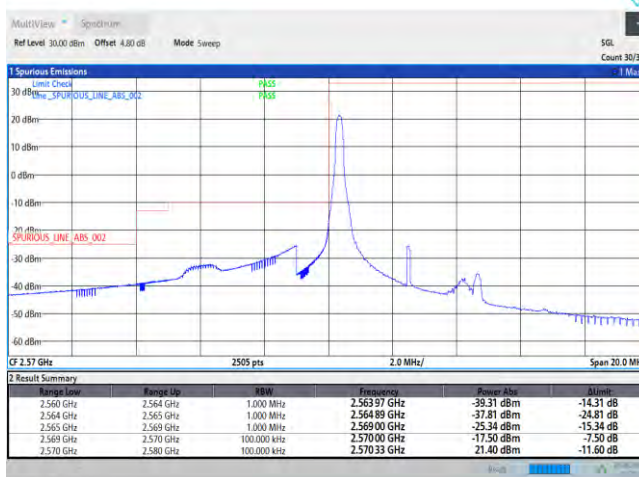


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Band Edge

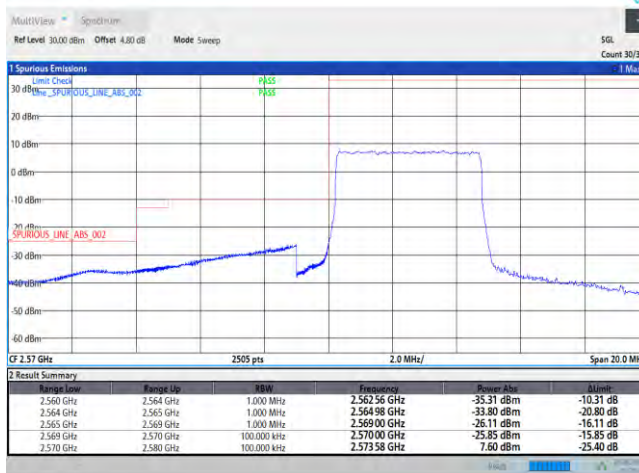
Test Graphs

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



19:59:20 26.06.2022

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



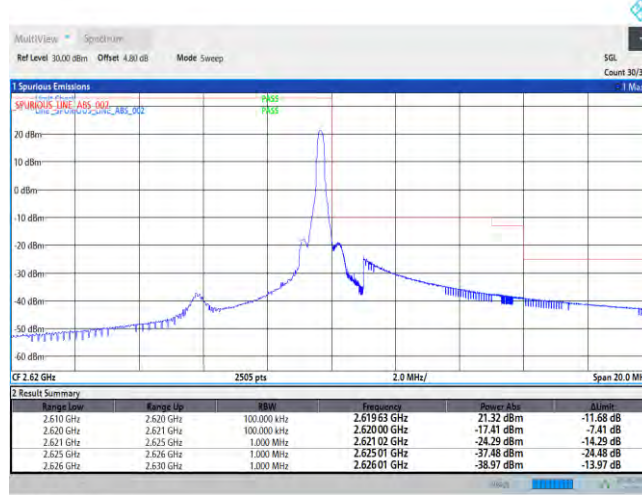
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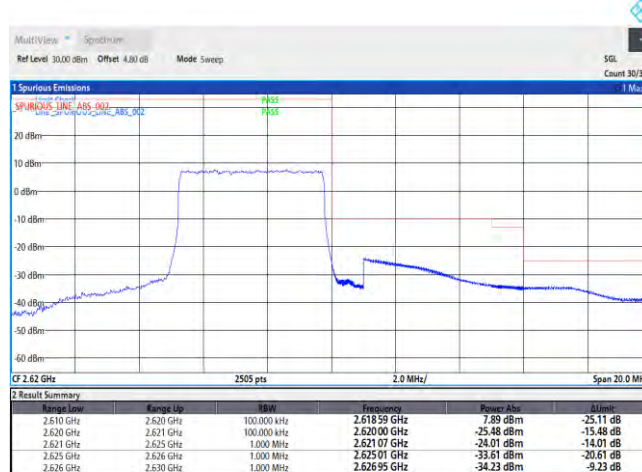
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Band38-5MHz-QPSK-38225-1RB#24



20:01:35 26.06.2022

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



20:03:03 26.06.2022



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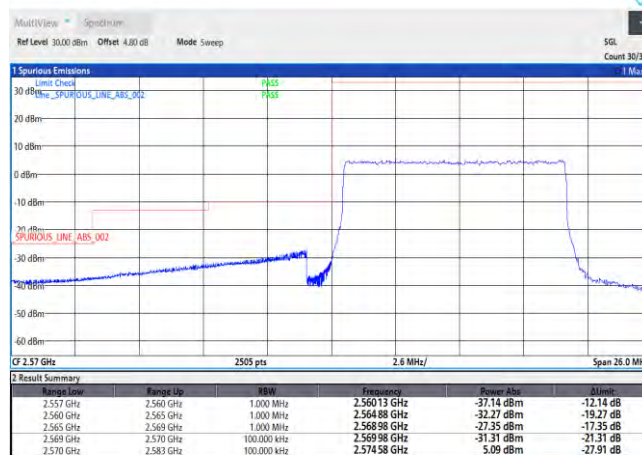
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Band38-10MHz-QPSK-37800-1RB#0



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



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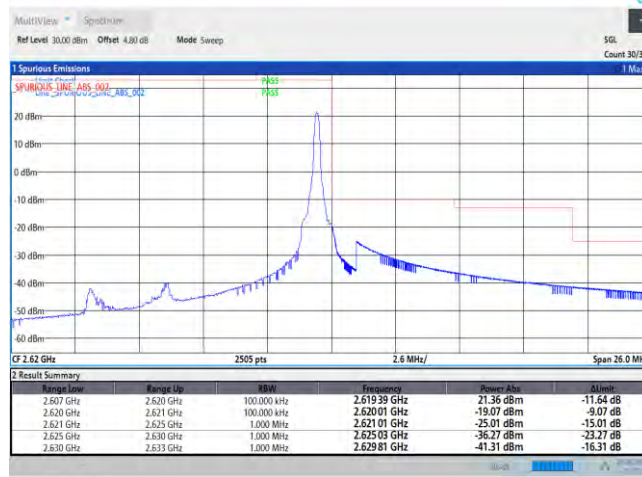


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Band38-10MHz-QPSK-38200-1RB#49



20:07:39 26.06.2022

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



20:08:38 26.06.2022



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



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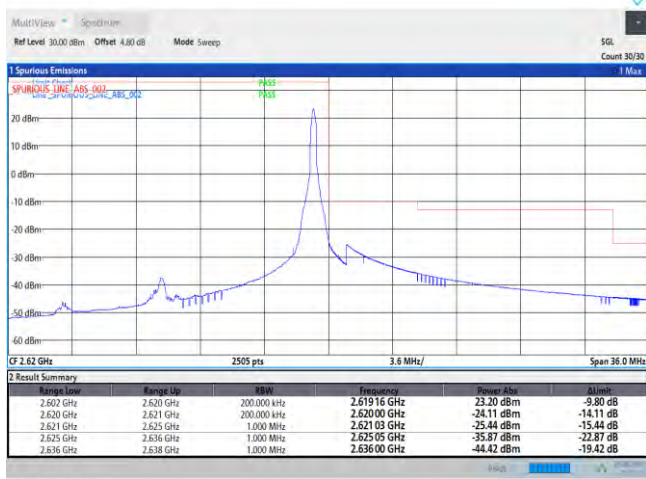


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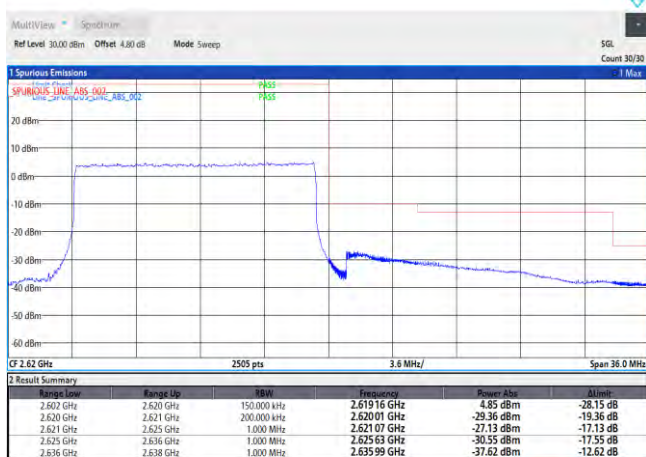
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Band38-15MHz-QPSK-38175-1RB#74



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

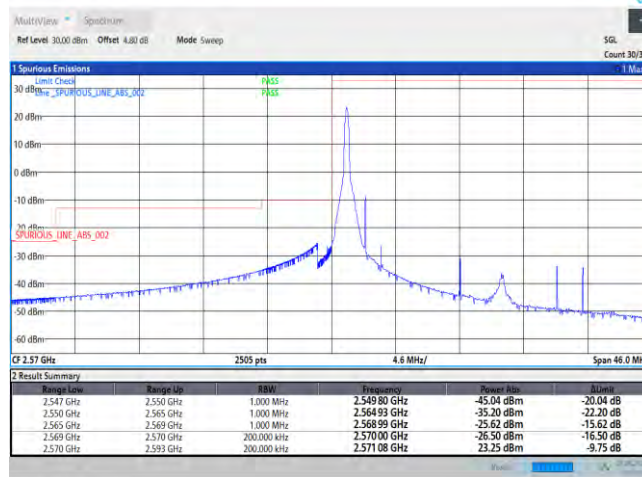


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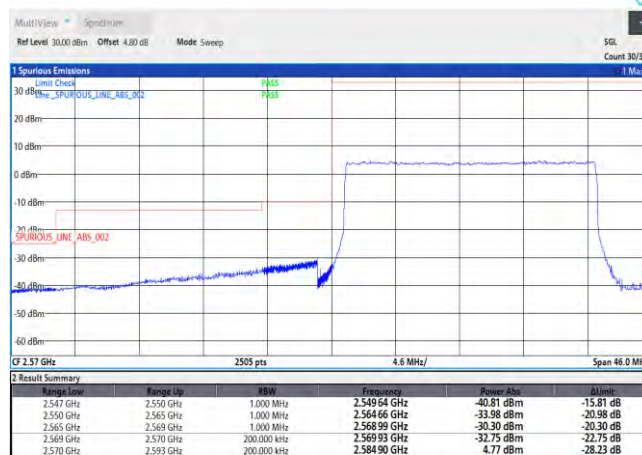
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Band38-20MHz-QPSK-37850-1RB#0



20:15:53 26.06.2022

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



20:16:52 26.06.2022

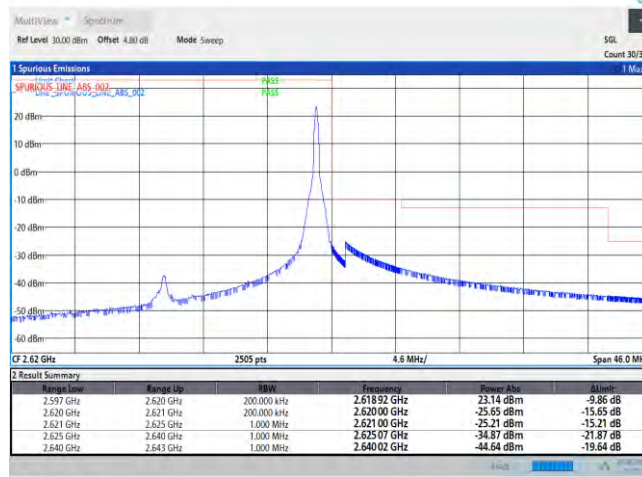


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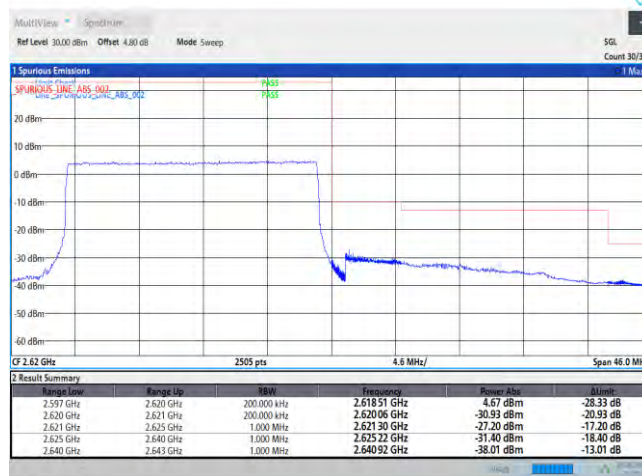
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Band38-20MHz-QPSK-38150-1RB#99



20:18:11 26.06.2022

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



20:19:11 26.06.2022



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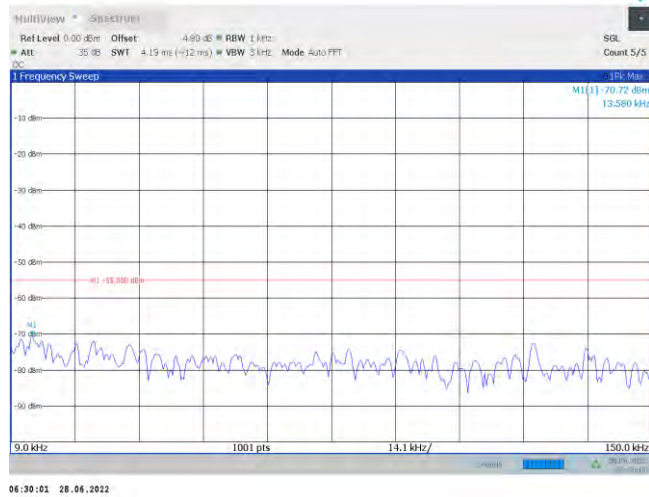
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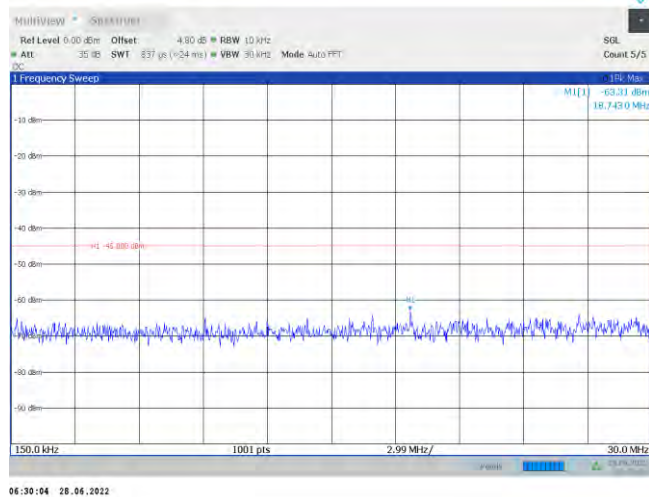
Conducted Spurious Emission

Test Graphs

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



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

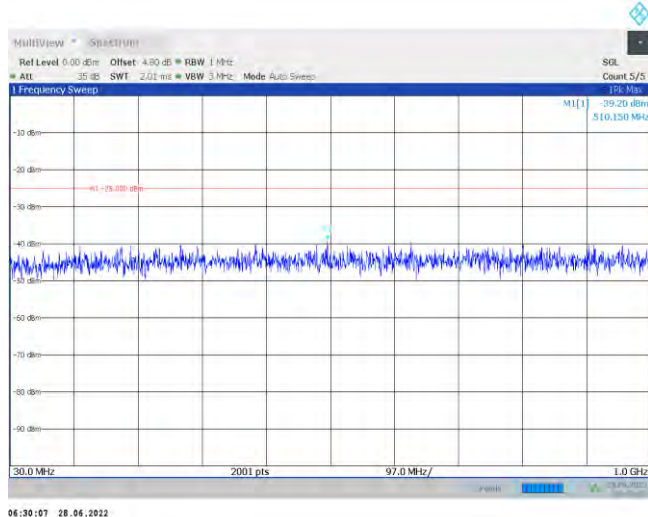


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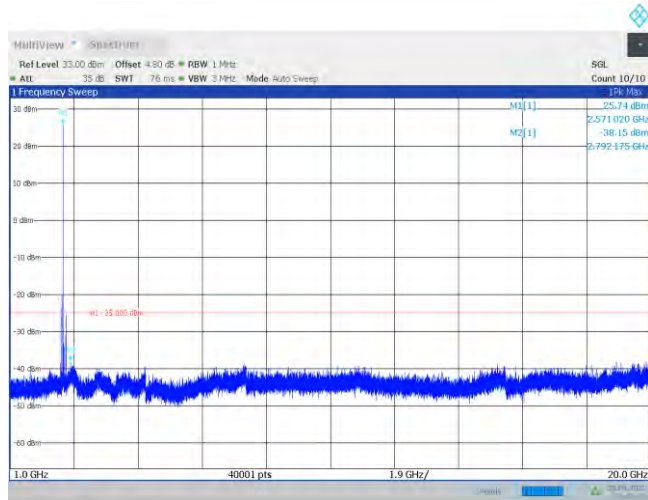
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



06:30:07 28.06.2022

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

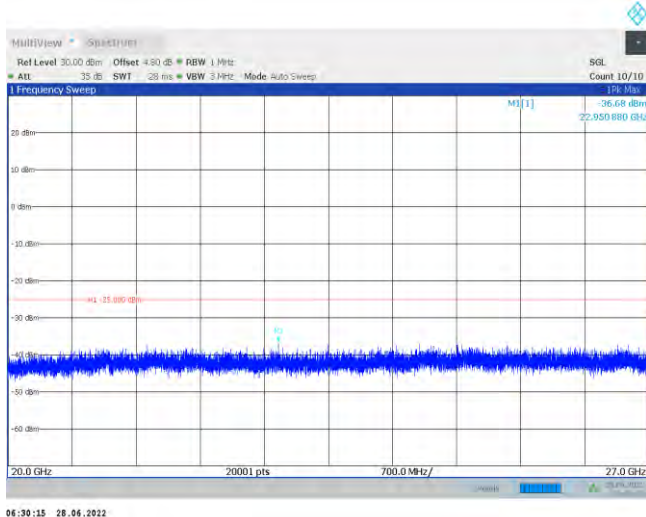


06:30:12 28.06.2022

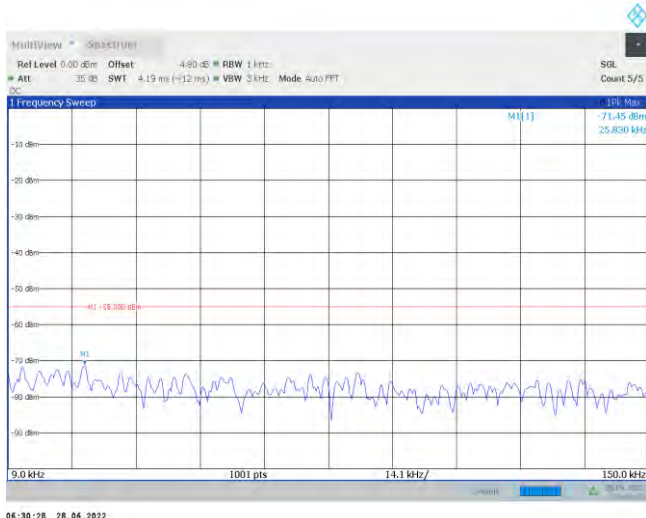


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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz

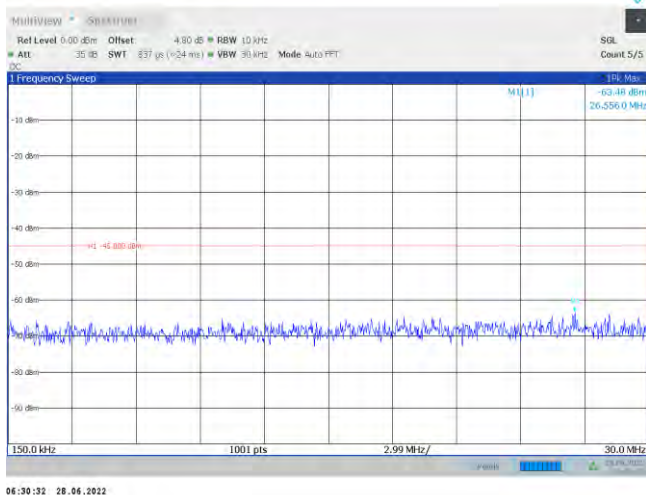


Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



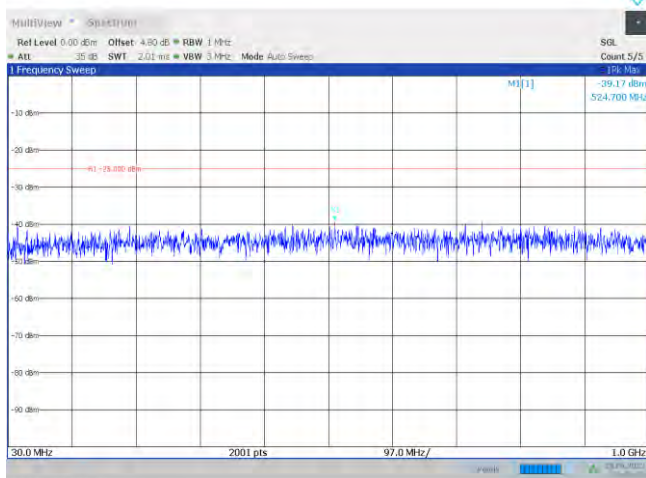
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



06:30:32 28.06.2022

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

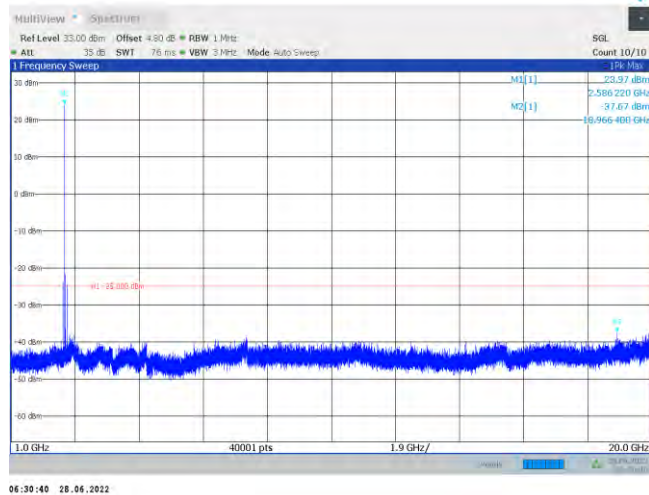


06:30:35 28.06.2022



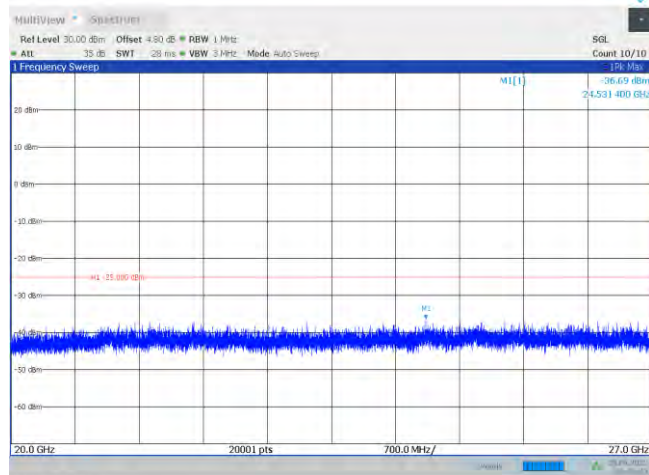
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



06:30:40 28.06.2022

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

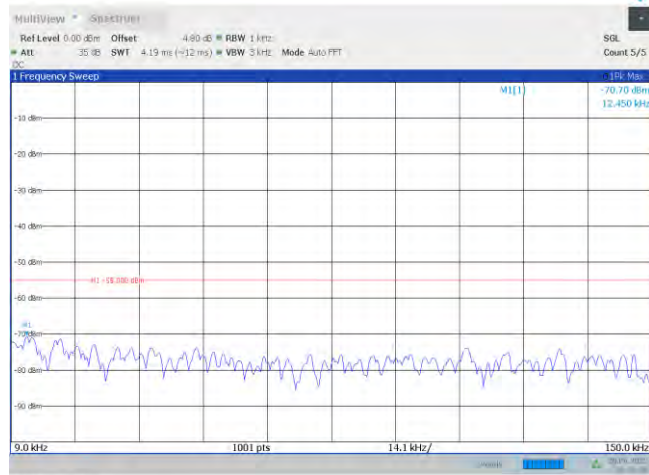


06:30:43 28.06.2022



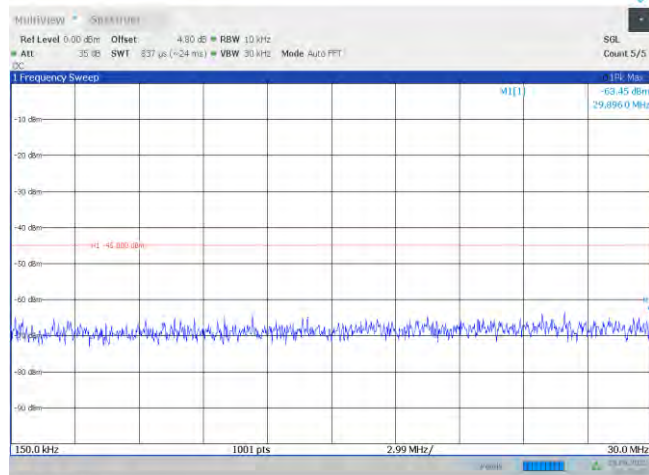
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



06:30:57 28.06.2022

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

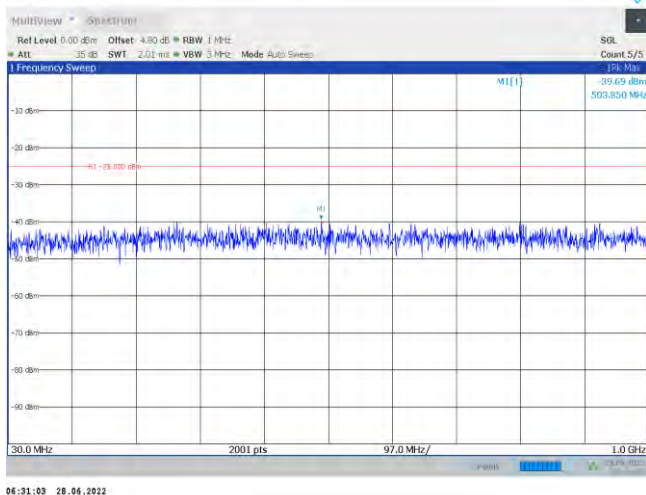


06:31:00 28.06.2022



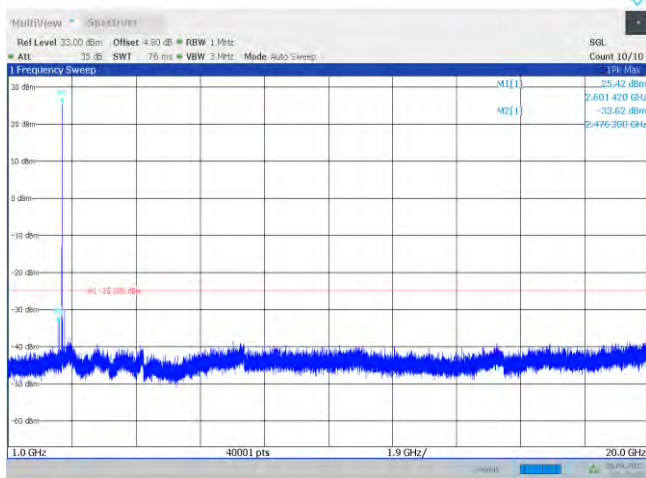
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



06:31:03 28.06.2022

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

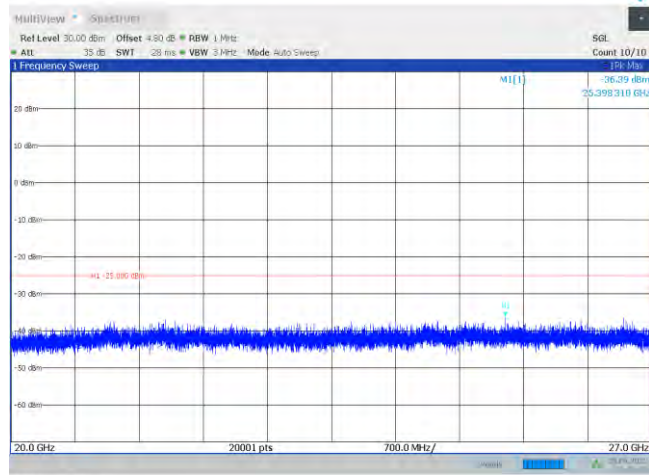


06:31:08 28.06.2022



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



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Field Strength of Spurious Radiation

For Sample #1

Test Band = LTE Band38_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142	60.70	-45.33	32.96	-46.93	-25.00	21.93	185	184	Horizontal
2	7713.2700	63.83	-43.01	36.61	-37.83	-25.00	12.83	174	206	Horizontal
3	10284.3600	40.38	-39.15	38.83	-55.20	-25.00	30.20	177	101	Horizontal
4	12855.4500	36.51	-36.99	39.69	-56.05	-25.00	31.05	285	349	Horizontal
5	15426.5400	34.31	-33.99	38.67	-56.27	-25.00	31.27	235	0	Horizontal
6	17997.6300	38.72	-34.58	42.23	-48.88	-25.00	23.88	125	93	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	52.41	-45.33	32.96	-55.22	-25.00	30.22	285	212	Vertical
2	7713.2700	59.95	-43.01	36.61	-41.71	-25.00	16.71	214	99	Vertical
3	10284.3600	40.33	-39.15	38.83	-55.25	-25.00	30.25	207	288	Vertical
4	12855.4500	37.64	-36.99	39.69	-54.92	-25.00	29.92	108	318	Vertical
5	15426.5400	34.58	-33.99	38.67	-56.00	-25.00	31.00	174	265	Vertical
6	17997.6300	38.54	-34.58	42.23	-49.06	-25.00	24.06	155	24	Vertical



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Test Band = LTE Band38_ TM1
 Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1318	41.37	-24.73	25.61	-53.01	-25.00	28.01	144	129	Horizontal
2	5172	62.84	-45.31	32.97	-44.75	-25.00	19.75	127	152	Horizontal
3	7758.2700	62.93	-42.64	36.70	-38.27	-25.00	13.27	252	258	Horizontal
4	10344.3600	40.70	-39.05	38.85	-54.77	-25.00	29.77	247	92	Horizontal
5	12930.4500	36.99	-37.18	39.76	-55.69	-25.00	30.69	218	0	Horizontal
6	15516.5400	33.93	-35.30	38.55	-58.08	-25.00	33.08	174	213	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1146	40.51	-25.18	25.53	-54.40	-25.00	29.40	236	38	Vertical
2	5172	55.66	-45.31	32.97	-51.93	-25.00	26.93	296	213	Vertical
3	7758.2700	63.42	-42.64	36.70	-37.78	-25.00	12.78	293	107	Vertical
4	10344.3600	40.79	-39.05	38.85	-54.68	-25.00	29.68	193	10	Vertical
5	12930.4500	37.46	-37.18	39.76	-55.22	-25.00	30.22	125	282	Vertical
6	15516.5400	33.25	-35.30	38.55	-58.76	-25.00	33.76	155	0	Vertical



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Test Band = LTE Band38_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1340.6667	42.74	-24.87	25.61	-51.78	-25.00	26.78	208	134	Horizontal
2	5202.1800	61.04	-45.27	32.99	-46.51	-25.00	21.51	238	182	Horizontal
3	7803.2700	64.12	-42.33	36.78	-36.68	-25.00	11.68	234	226	Horizontal
4	10404.3600	40.22	-39.00	38.86	-55.18	-25.00	30.18	196	273	Horizontal
5	13005.4500	35.99	-37.31	39.83	-56.75	-25.00	31.75	152	234	Horizontal
6	15606.5400	35.05	-34.87	38.43	-56.65	-25.00	31.65	135	334	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1340	42.37	-24.87	25.61	-52.15	-25.00	27.15	185	98	Vertical
2	5202	57.64	-45.28	32.99	-49.91	-25.00	24.91	198	213	Vertical
3	7803	64.73	-42.33	36.78	-36.07	-25.00	11.07	120	107	Vertical
4	10404.3600	40.82	-39.00	38.86	-54.58	-25.00	29.58	289	175	Vertical
5	13005.4500	37.07	-37.31	39.83	-55.67	-25.00	30.67	152	213	Vertical
6	15606.5400	33.66	-34.87	38.43	-58.04	-25.00	33.04	132	17	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Pre-amplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV -95.26



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-1.30	-0.000501	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-1.60	-0.000617	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	0.20	0.000077	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-2.20	-0.000848	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	0.60	0.000231	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-1.40	-0.000539	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-0.10	-0.000039	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-3.00	-0.001156	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	0.60	0.000231	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-0.80	-0.000308	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	1.40	0.000539	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-1.60	-0.000617	PASS

The End



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