

Appendix B.14

LTE Band 38



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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	24.4	26.8	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	24.47	26.87	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	24.39	26.79	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	23.44	25.84	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	24.26	26.66	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	24.44	26.84	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	24.25	26.65	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	23.37	25.77	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	24.15	26.55	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	24.28	26.68	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	24.15	26.55	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	23.23	25.63	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	23.55	25.95	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	23.49	25.89	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	23.28	25.68	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	22.43	24.83	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	23.26	25.66	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	23.3	25.7	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	23.23	25.63	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	22.36	24.76	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	23.23	25.63	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.16	25.56	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	23.03	25.43	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	22.21	24.61	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	23.26	25.66	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	22.62	25.02	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	22.49	24.89	33.00	PASS
Band38	5MHz	64QAM	37775	25RB#0	21.41	23.81	33.00	PASS



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Band38	5MHz	64QAM	38000	1RB#0	22.4	24.8	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	22.41	24.81	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	22.29	24.69	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	21.35	23.75	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	22.29	24.69	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	22.25	24.65	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	22.25	24.65	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	21.2	23.6	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#0	19.22	21.62	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#12	19.39	21.79	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#24	19.29	21.69	33.00	PASS
Band38	5MHz	256QAM	37775	25RB#0	19.44	21.84	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#0	19.1	21.5	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#12	19.38	21.78	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#24	19.17	21.57	33.00	PASS
Band38	5MHz	256QAM	38000	25RB#0	19.35	21.75	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#0	19.01	21.41	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#12	19.23	21.63	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#24	19.01	21.41	33.00	PASS
Band38	5MHz	256QAM	38225	25RB#0	19.19	21.59	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	24.31	26.71	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	24.41	26.81	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	24.36	26.76	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	23.44	25.84	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	24.23	26.63	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	24.35	26.75	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	24.33	26.73	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	23.39	25.79	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.12	26.52	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	24.22	26.62	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	24.07	26.47	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	23.24	25.64	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	23.3	25.7	33.00	PASS



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Band38	10MHz	16QAM	37800	1RB#24	23.31	25.71	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	23.36	25.76	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	22.45	24.85	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	23.32	25.72	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	23.36	25.76	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	23.26	25.66	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	22.35	24.75	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	23.21	25.61	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.2	25.6	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	23.11	25.51	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	22.25	24.65	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	22.52	24.92	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	22.52	24.92	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	22.41	24.81	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	21.42	23.82	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	22.44	24.84	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	22.43	24.83	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	22.43	24.83	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	21.36	23.76	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	22.32	24.72	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	22.36	24.76	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	22.14	24.54	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	21.26	23.66	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#0	19.16	21.56	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#24	19.36	21.76	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#49	19.19	21.59	33.00	PASS
Band38	10MHz	256QAM	37800	50RB#0	19.43	21.83	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#0	19.08	21.48	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#24	19.36	21.76	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#49	19.21	21.61	33.00	PASS
Band38	10MHz	256QAM	38000	50RB#0	19.39	21.79	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#0	19.04	21.44	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#24	19.28	21.68	33.00	PASS



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Band38	10MHz	256QAM	38200	1RB#49	19.13	21.53	33.00	PASS
Band38	10MHz	256QAM	38200	50RB#0	19.26	21.66	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	24.2	26.6	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	24.24	26.64	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	24.11	26.51	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	23.3	25.7	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	24.03	26.43	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	24.17	26.57	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	24.12	26.52	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	23.22	25.62	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.96	26.36	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	24.1	26.5	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.95	26.35	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	23.14	25.54	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.13	25.53	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	23.22	25.62	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	23.05	25.45	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.32	24.72	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	23.09	25.49	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	23.21	25.61	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	23.16	25.56	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	22.23	24.63	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	23.13	25.53	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	23.11	25.51	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.93	25.33	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	22.17	24.57	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	22.15	24.55	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	22.23	24.63	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	22.2	24.6	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	21.33	23.73	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	22.24	24.64	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	22.17	24.57	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	22.11	24.51	33.00	PASS



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Band38	15MHz	64QAM	38000	75RB#0	21.25	23.65	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	22.18	24.58	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	22.18	24.58	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	22	24.4	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	21.15	23.55	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#0	19.07	21.47	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#38	19.13	21.53	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#74	19.18	21.58	33.00	PASS
Band38	15MHz	256QAM	37825	75RB#0	19.29	21.69	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#0	19.08	21.48	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#38	19.02	21.42	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#74	19.13	21.53	33.00	PASS
Band38	15MHz	256QAM	38000	75RB#0	19.25	21.65	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#0	19.18	21.58	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#38	19.06	21.46	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#74	18.91	21.31	33.00	PASS
Band38	15MHz	256QAM	38175	75RB#0	19.18	21.58	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	24.15	26.55	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	24.21	26.61	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	24.09	26.49	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	23.31	25.71	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.86	26.26	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	24.18	26.58	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	24.1	26.5	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	23.22	25.62	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.92	26.32	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	24.14	26.54	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	24.05	26.45	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	23.18	25.58	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	23.1	25.5	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	23.28	25.68	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	23.08	25.48	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.3	24.7	33.00	PASS



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Band38	20MHz	16QAM	38000	1RB#0	23.08	25.48	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	23.3	25.7	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	23.09	25.49	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	22.23	24.63	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	23.13	25.53	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	23.08	25.48	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	23.03	25.43	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	22.2	24.6	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	22.24	24.64	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	22.27	24.67	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	22.22	24.62	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	21.3	23.7	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	22.27	24.67	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	22.33	24.73	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	22.12	24.52	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	21.2	23.6	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	22.25	24.65	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	22.18	24.58	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.98	24.38	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	21.17	23.57	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#0	19.14	21.54	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#49	19.27	21.67	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#99	19.2	21.6	33.00	PASS
Band38	20MHz	256QAM	37850	100RB#0	19.29	21.69	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#0	19.14	21.54	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#49	19.2	21.6	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#99	19.18	21.58	33.00	PASS
Band38	20MHz	256QAM	38000	100RB#0	19.24	21.64	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#0	19.1	21.5	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#49	19.27	21.67	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#99	18.99	21.39	33.00	PASS
Band38	20MHz	256QAM	38150	100RB#0	19.19	21.59	33.00	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	8.56	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.88	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.64	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.36	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.60	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.44	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	9.58	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	10.02	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.84	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	10.20	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	10.04	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	9.86	13	PASS

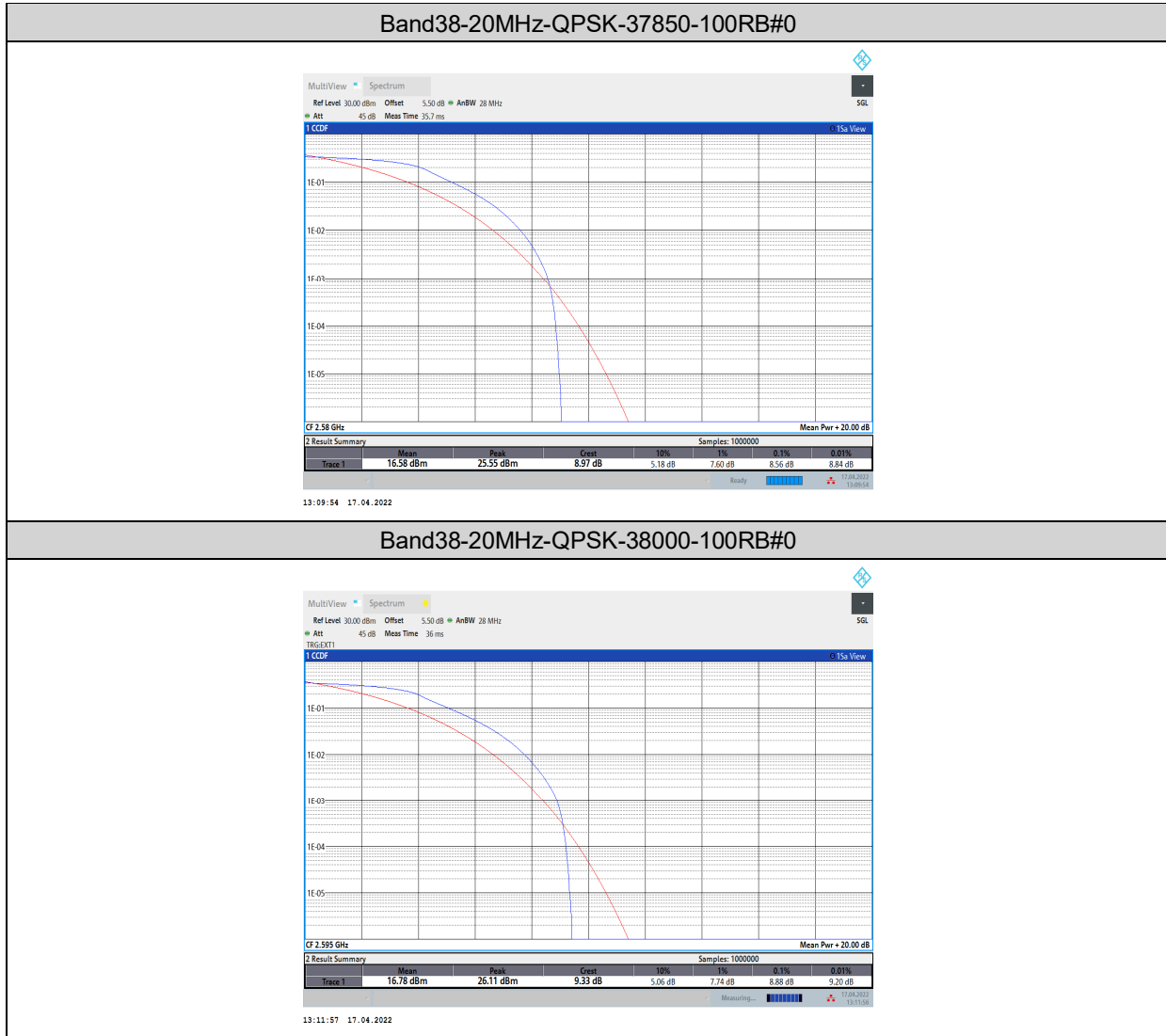


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Test Graphs

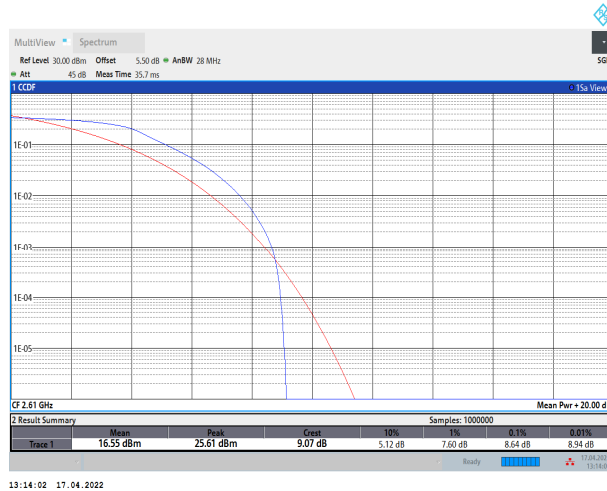


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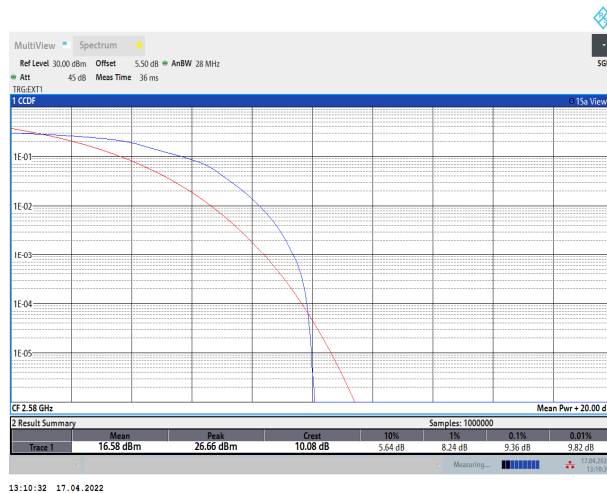
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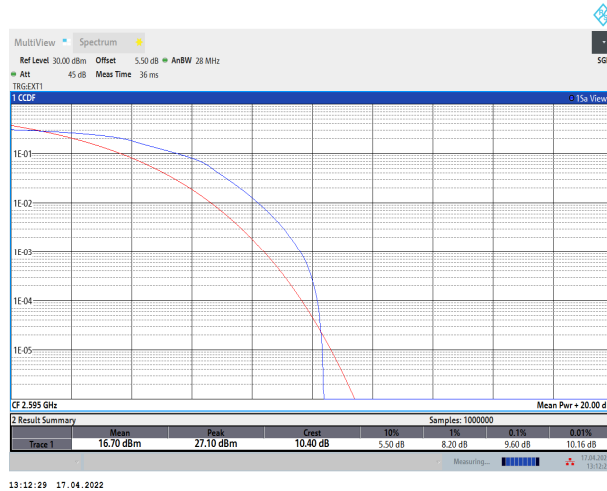
Band38-20MHz-QPSK-38150-100RB#0



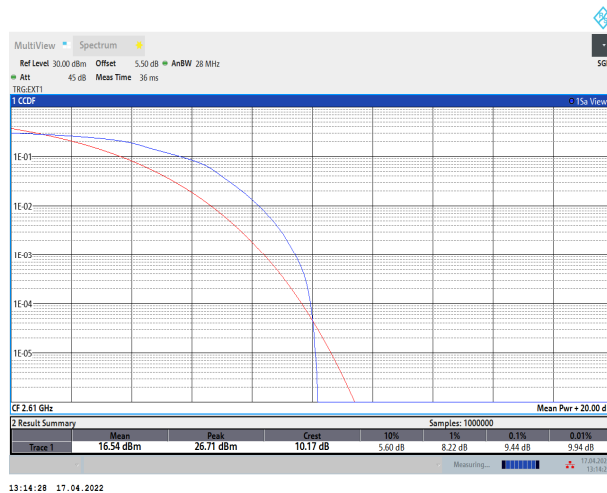
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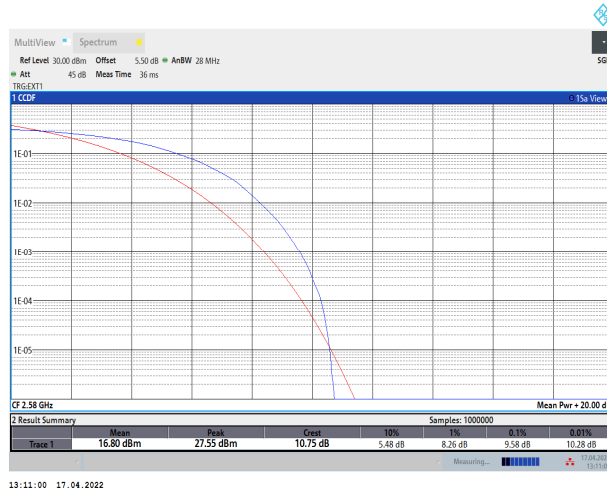
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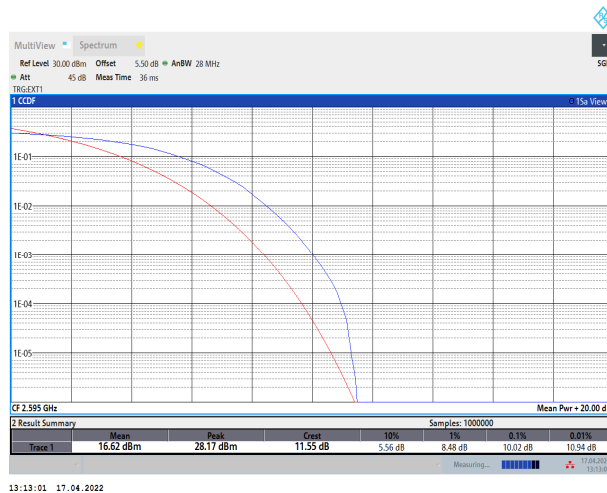
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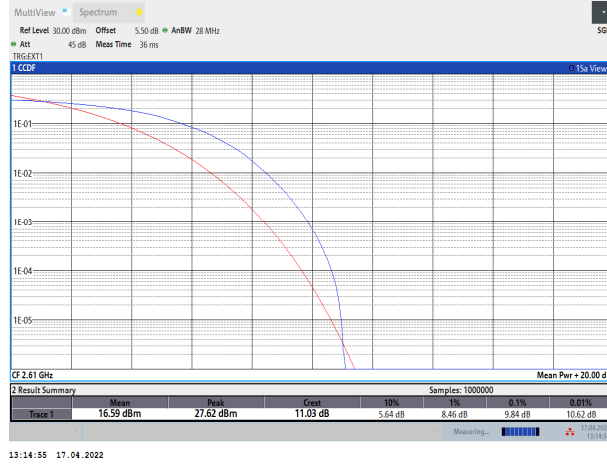
Band38-20MHz-64QAM-37850-100RB#0



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

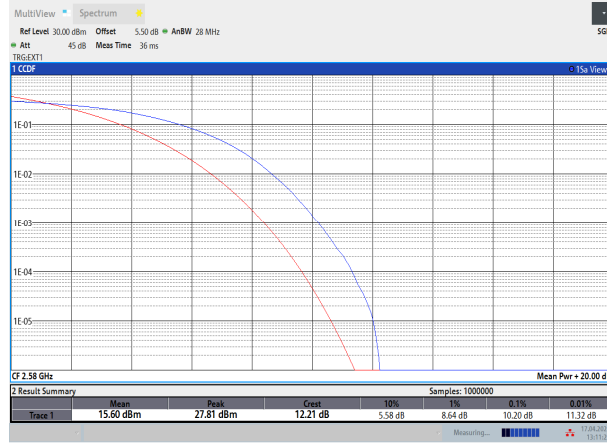


Band38-20MHz-64QAM-38150-100RB#0



13:14:55 17.04.2022

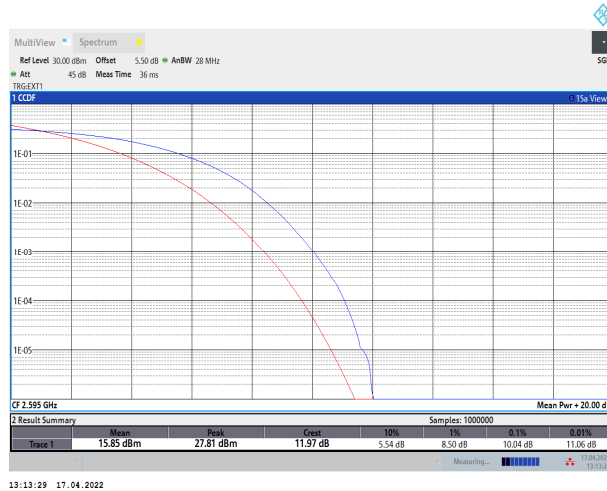
Band38-20MHz-256QAM-37850-100RB#0



13:11:29 17.04.2022

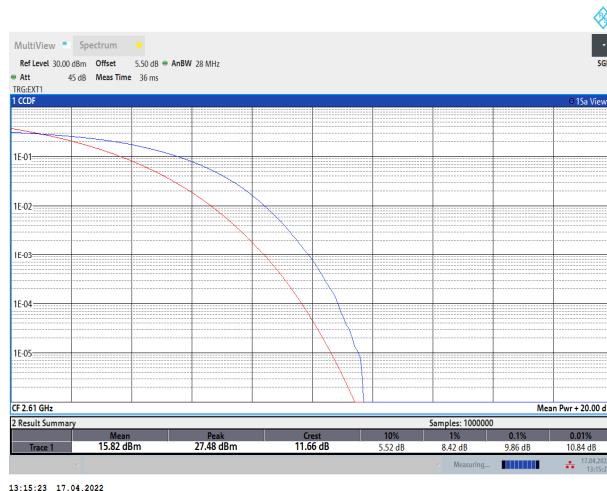


Band38-20MHz-256QAM-38000-100RB#0



13:13:29 17.04.2022

Band38-20MHz-256QAM-38150-100RB#0



13:15:23 17.04.2022



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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	4.472	5.07	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.478	5.01	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.478	5.11	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.480	5.09	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.479	5.21	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.480	5.10	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.483	4.99	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.476	5.16	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.480	5.16	PASS
Band38	5MHz	256QAM	37775	25RB#0	4.482	5.13	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.481	5.03	PASS
Band38	5MHz	256QAM	38225	25RB#0	4.471	5.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.938	10.12	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.931	9.88	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.955	9.86	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.947	10.12	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.936	9.98	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.943	10.22	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.932	10.16	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.942	10.16	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.940	10.24	PASS
Band38	10MHz	256QAM	37800	50RB#0	8.948	10.08	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.961	9.96	PASS
Band38	10MHz	256QAM	38200	50RB#0	8.931	9.96	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.479	16.68	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.489	16.44	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.494	16.35	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.480	15.36	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.474	15.93	PASS



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Band38	15MHz	16QAM	38175	75RB#0	13.498	16.44	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.488	14.97	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.491	16.20	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.517	16.38	PASS
Band38	15MHz	256QAM	37825	75RB#0	13.475	15.81	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.486	16.20	PASS
Band38	15MHz	256QAM	38175	75RB#0	13.485	15.93	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.887	20.32	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.938	20.24	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.946	20.92	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.913	20.28	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.927	20.08	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.917	20.16	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.911	20.92	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.896	21.20	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.927	20.44	PASS
Band38	20MHz	256QAM	37850	100RB#0	17.908	21.00	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.919	20.96	PASS
Band38	20MHz	256QAM	38150	100RB#0	17.921	20.36	PASS



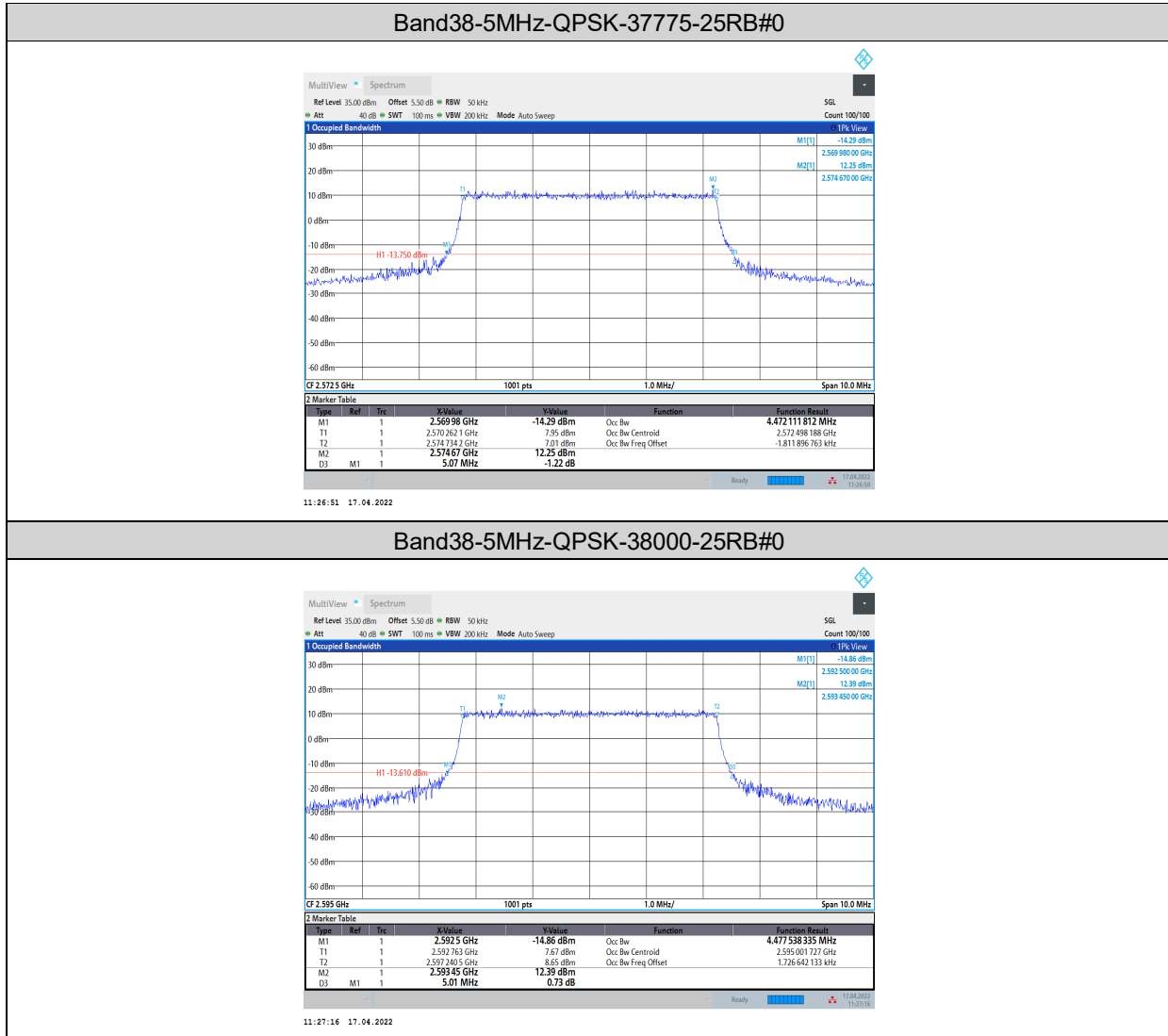
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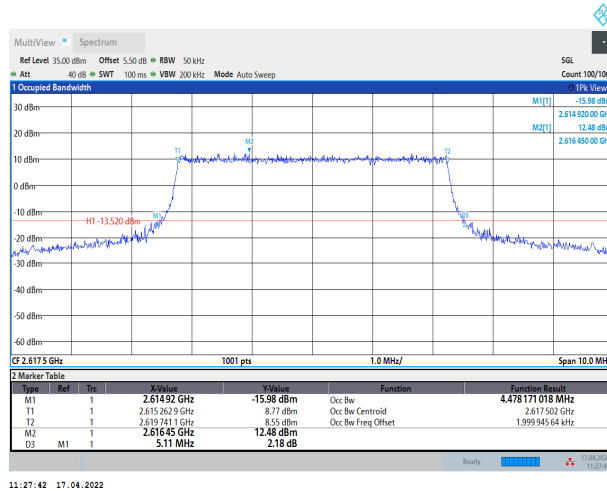
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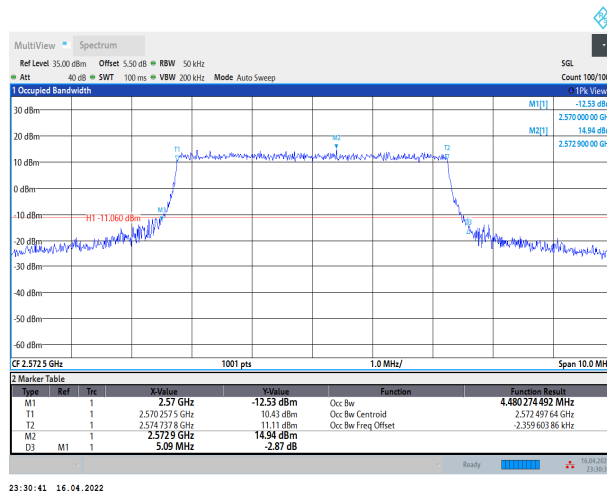
Test Graphs



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



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



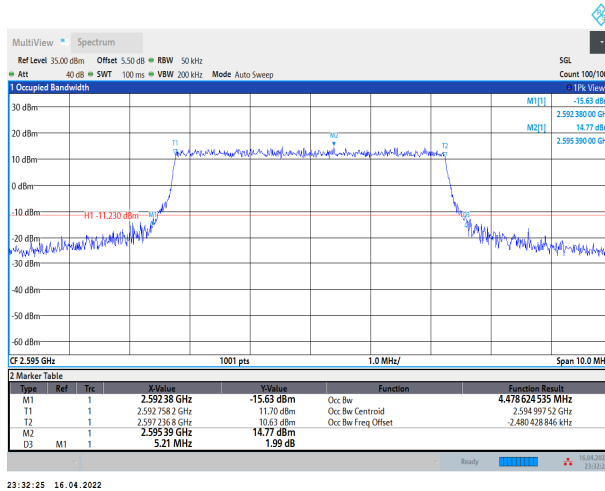
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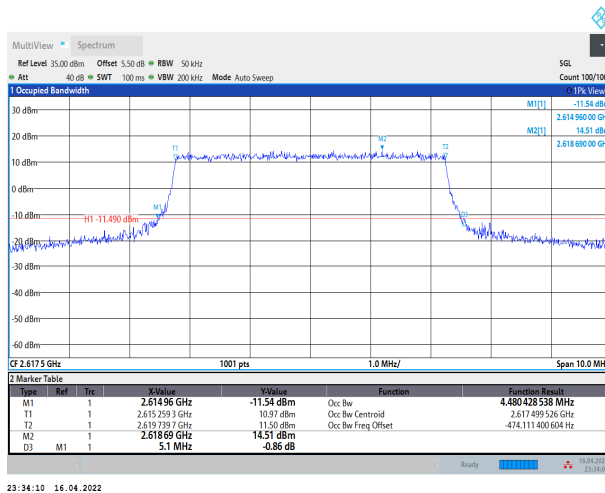
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Band38-5MHz-16QAM-38225-25RB#0

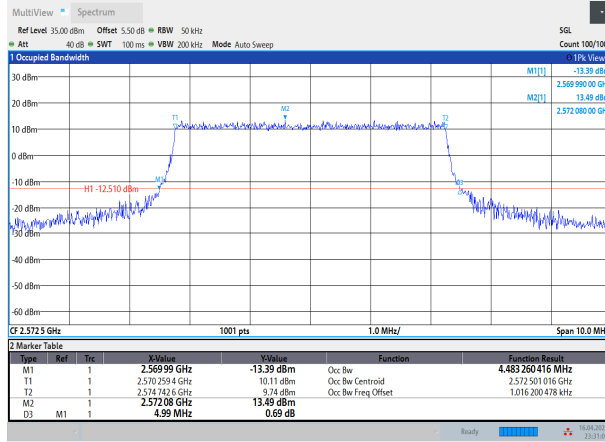


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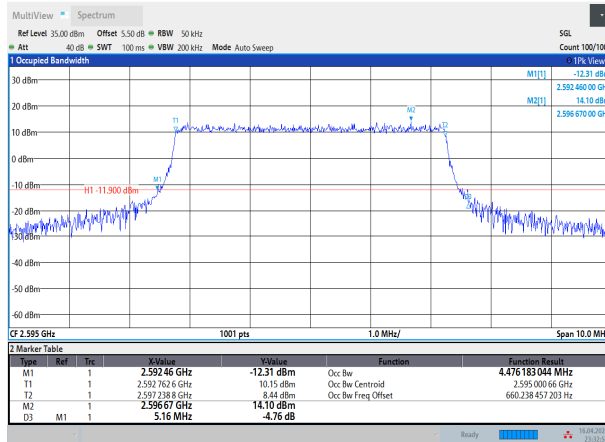
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Band38-5MHz-64QAM-37775-25RB#0



23:31:06 16.04.2022

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



23:32:51 16.04.2022

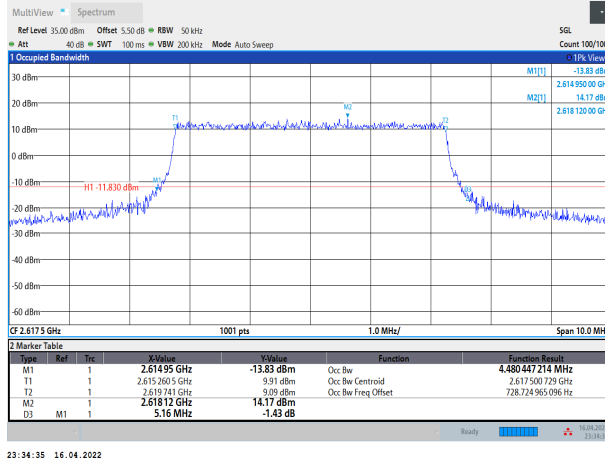


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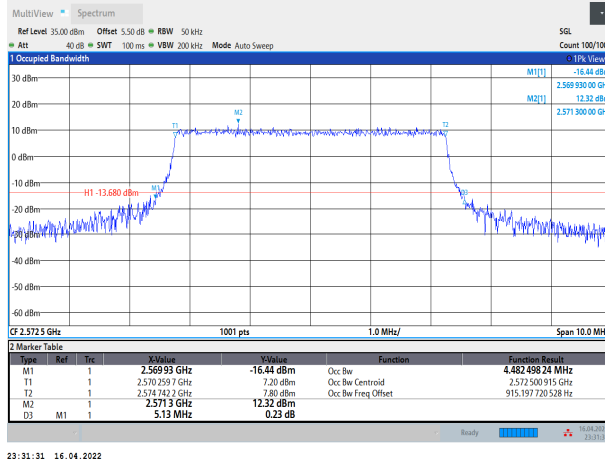
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Band38-5MHz-64QAM-38225-25RB#0



Band38-5MHz-256QAM-37775-25RB#0

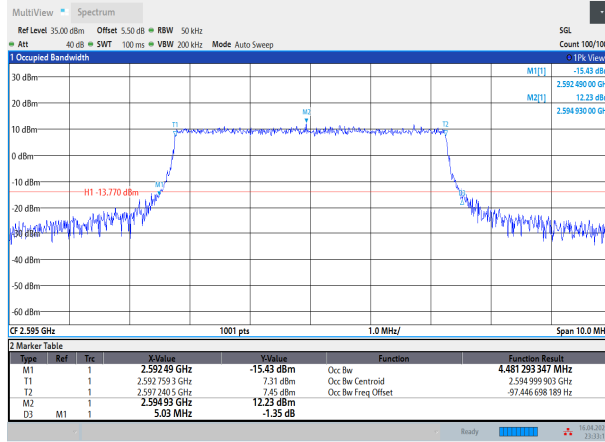


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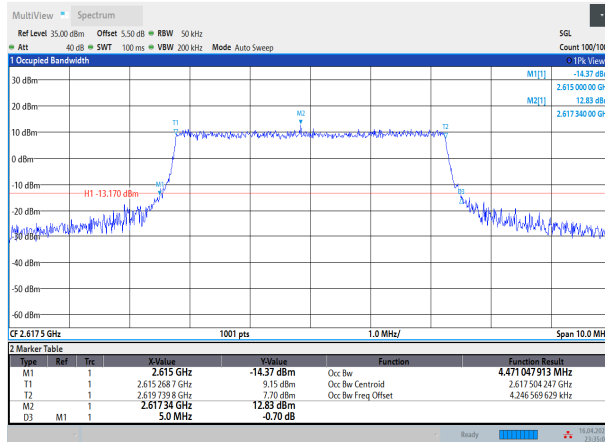
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Band38-5MHz-256QAM-38000-25RB#0



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Band38-5MHz-256QAM-38225-25RB#0



23:35:00 16.04.2022

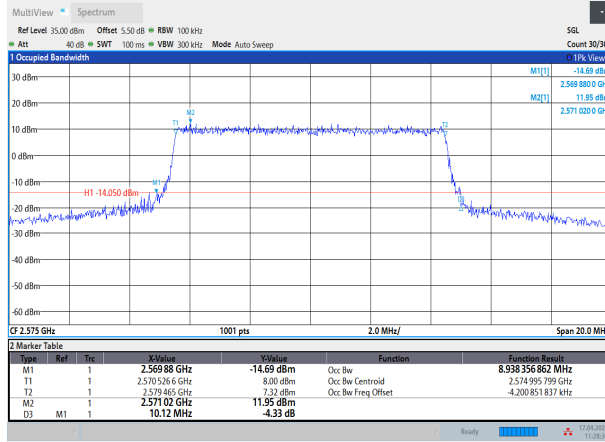


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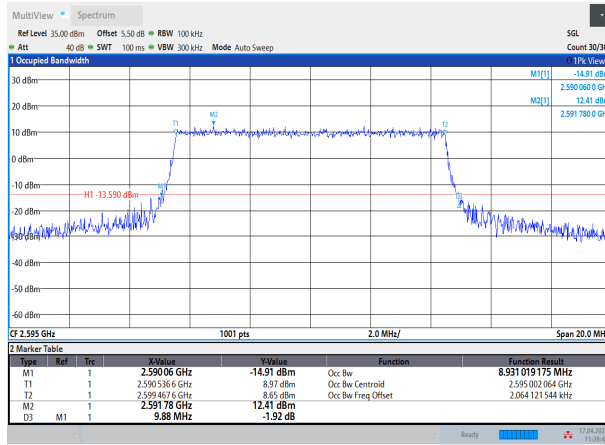
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Band38- 10MHz-QPSK-37800-50RB#0



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

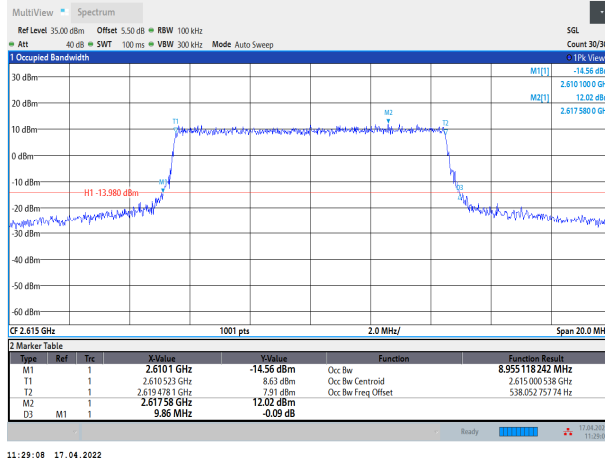


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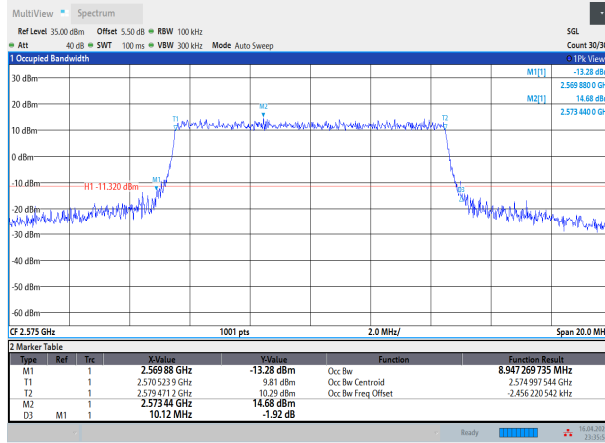
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Band38-10MHz-QPSK-38200-50RB#0



11:29:08 17.04.2022

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



23:35:52 16.04.2022

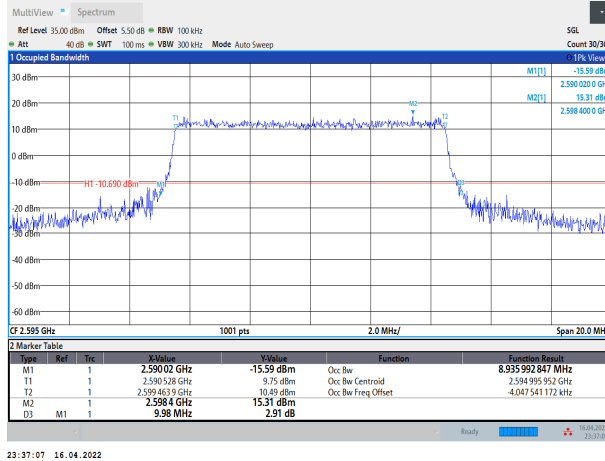


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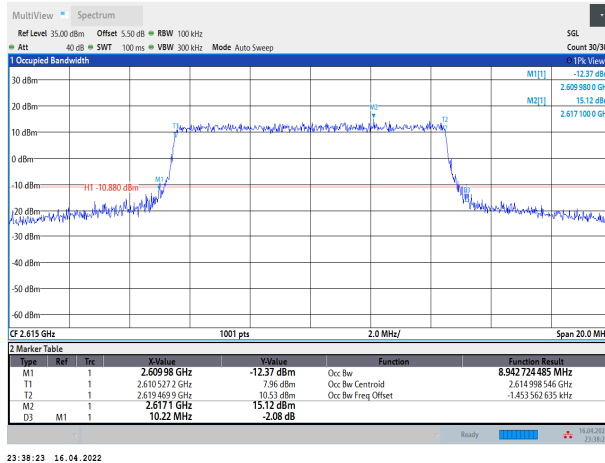
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Band38-10MHz-16QAM-38000-50RB#0



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



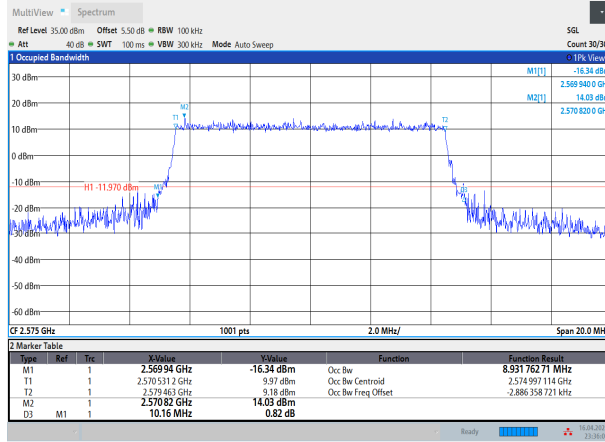
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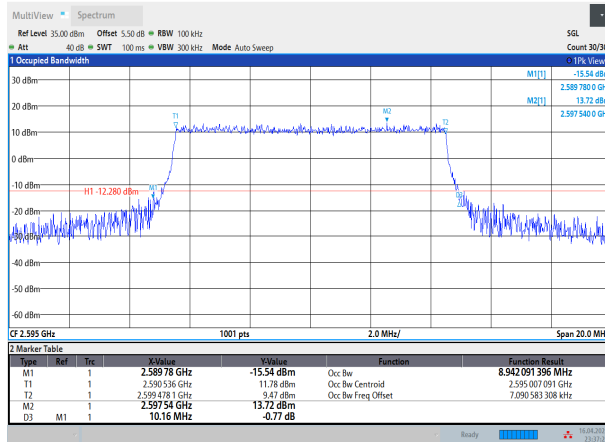
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Band38-10MHz-64QAM-37800-50RB#0



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



23:37:25 16.04.2022



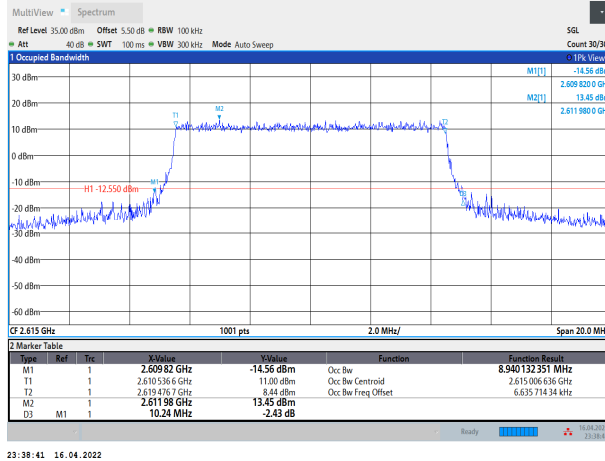
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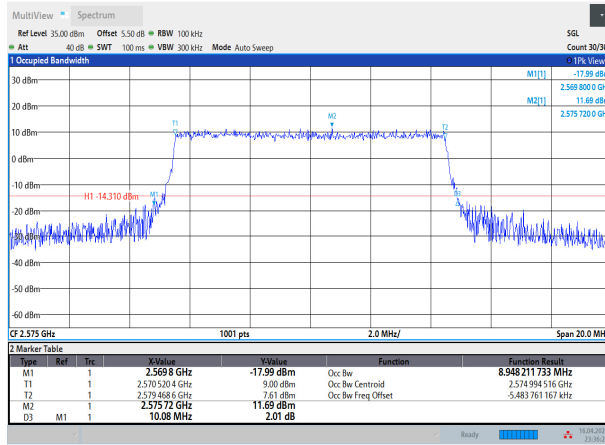
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Band38-10MHz-64QAM-38200-50RB#0



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Band38-10MHz-256QAM-37800-50RB#0



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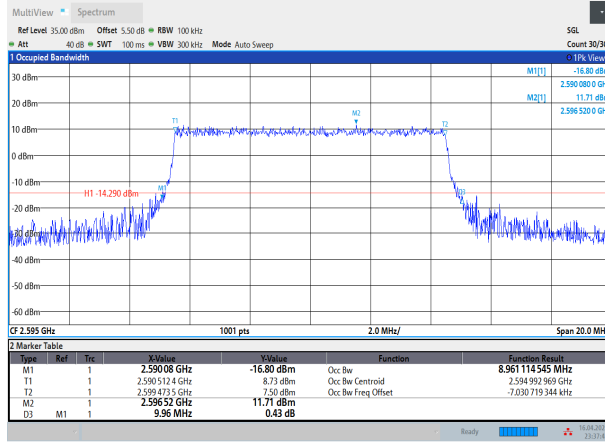


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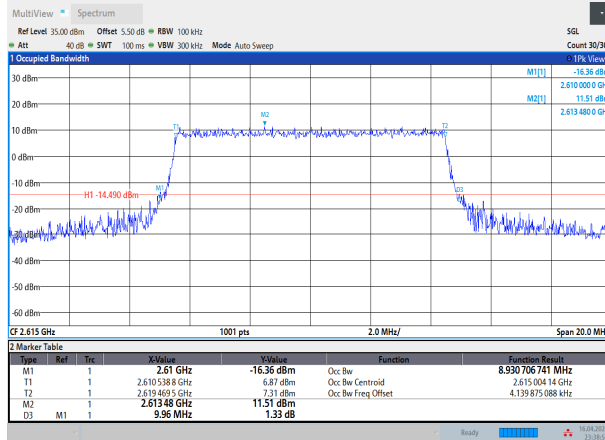
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Band38-10MHz-256QAM-38000-50RB#0



23:37:43 16. 04. 2022

Band38-10MHz-256QAM-38200-50RB#0



23:39:00 16. 04. 2022

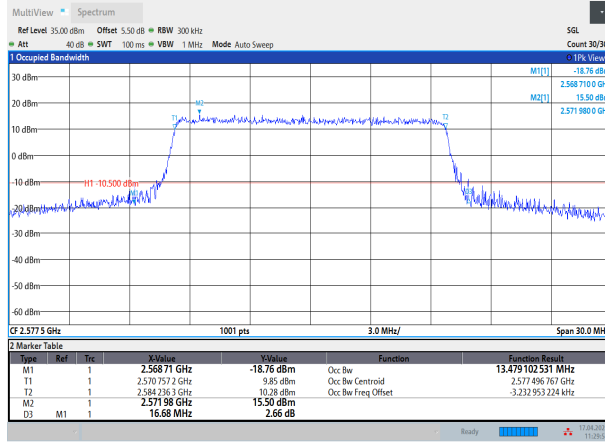


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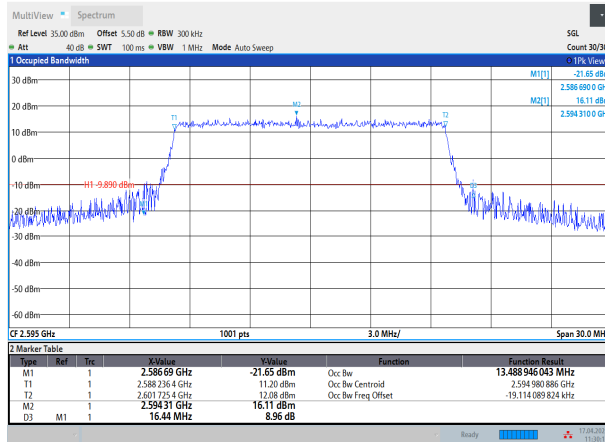
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Band38-15MHz-QPSK-37825-75RB#0



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



11:30:13 17.04.2022

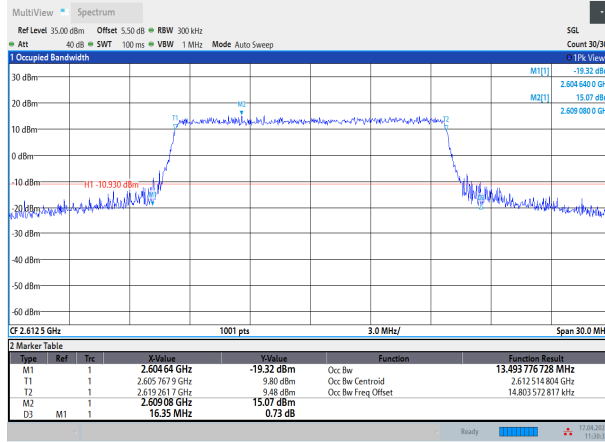


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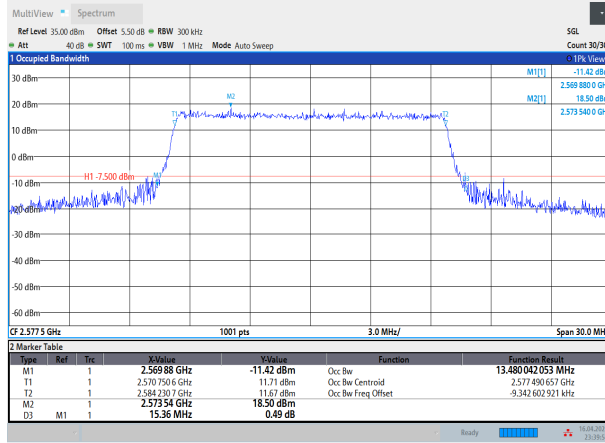
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Band38-15MHz-QPSK-38175-75RB#0



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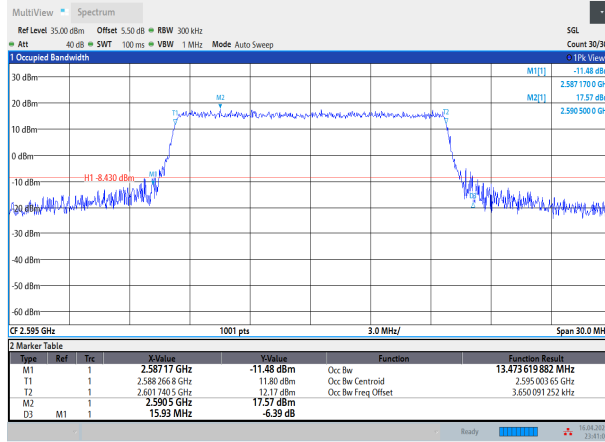
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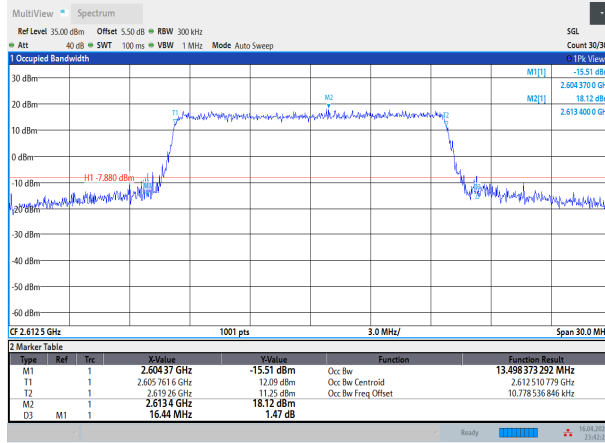


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Band38-15MHz-16QAM-38175-75RB#0



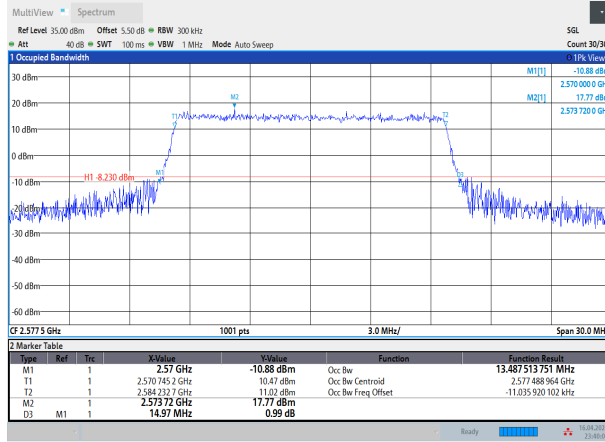
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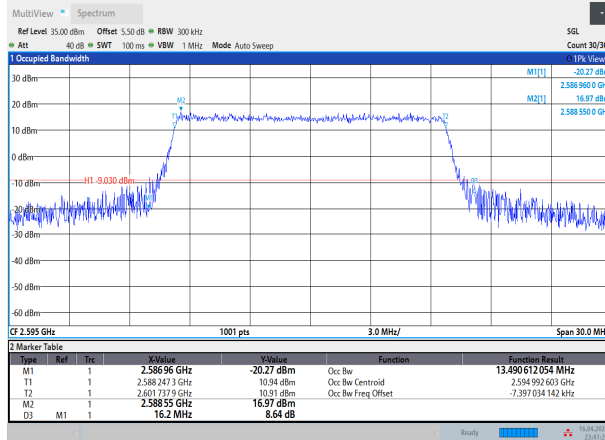
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Band38-15MHz-64QAM-37825-75RB#0



23:40:09 16.04.2022

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



23:41:24 16.04.2022



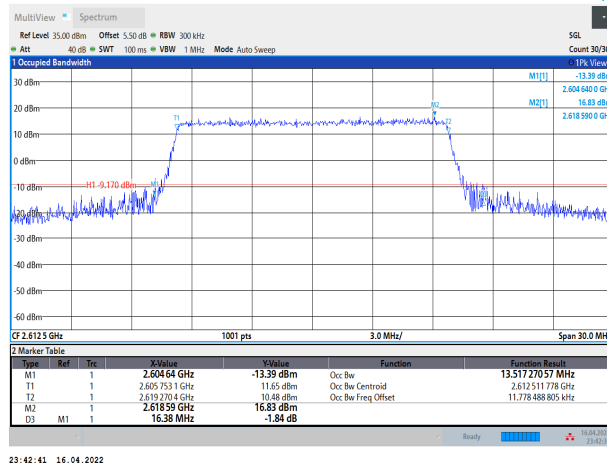
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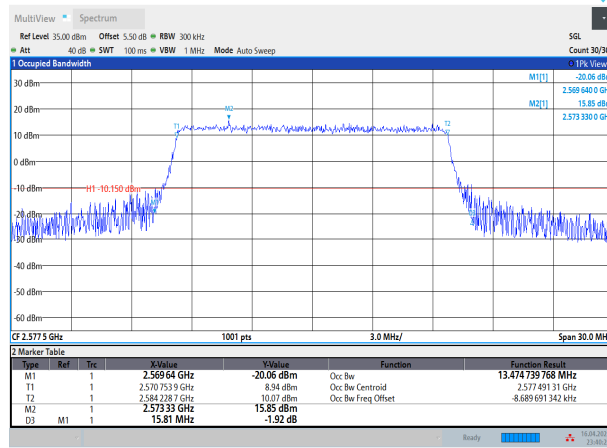
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Band38-15MHz-64QAM-38175-75RB#0



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Band38-15MHz-256QAM-37825-75RB#0



23:40:27 16.04.2022

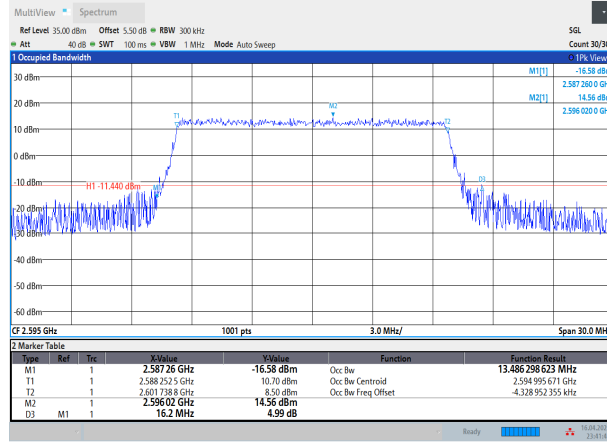


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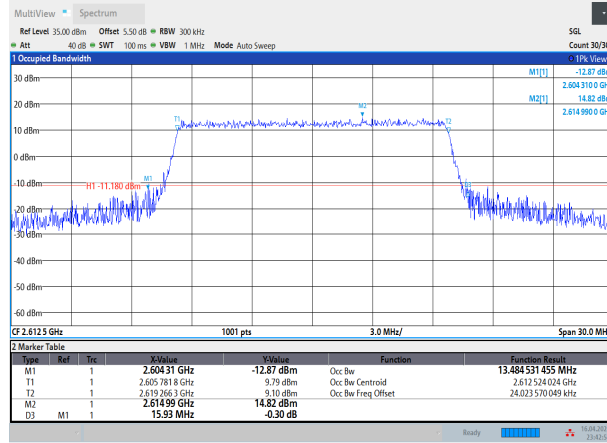
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Band38-15MHz-256QAM-38000-75RB#0



23:41:42 16.04.2022

Band38-15MHz-256QAM-38175-75RB#0



23:42:59 16.04.2022

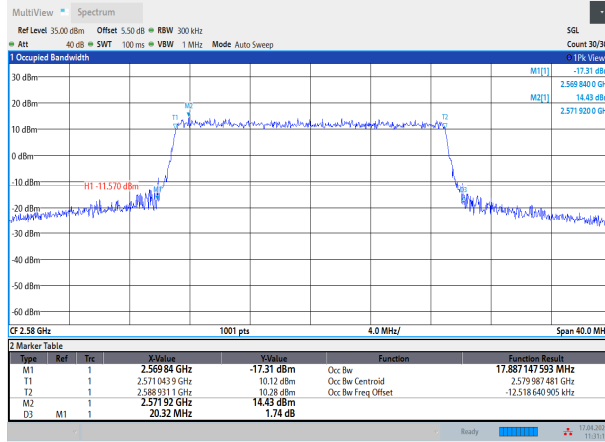


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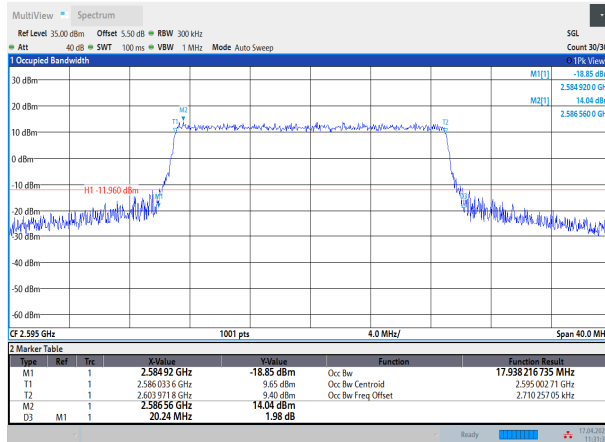
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Band38-20MHz-QPSK-37850-100RB#0



11:31:19 17.04.2022

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



11:31:37 17.04.2022



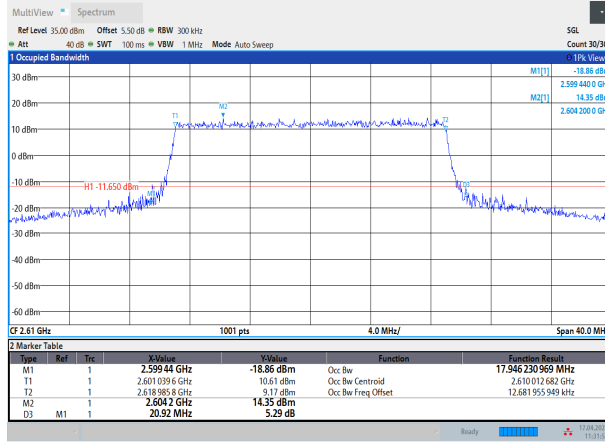
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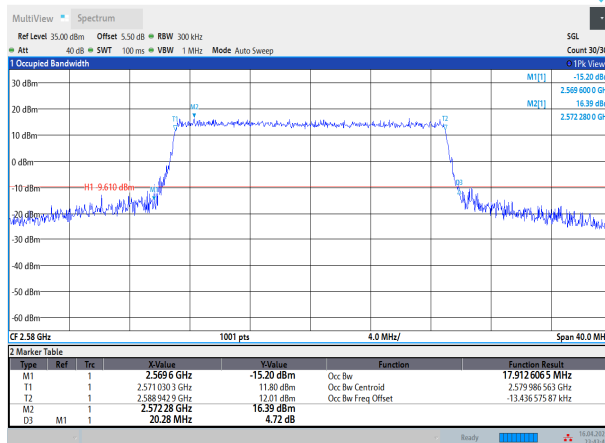
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Band38-20MHz-QPSK-38150-100RB#0



11:31:56 17.04.2022

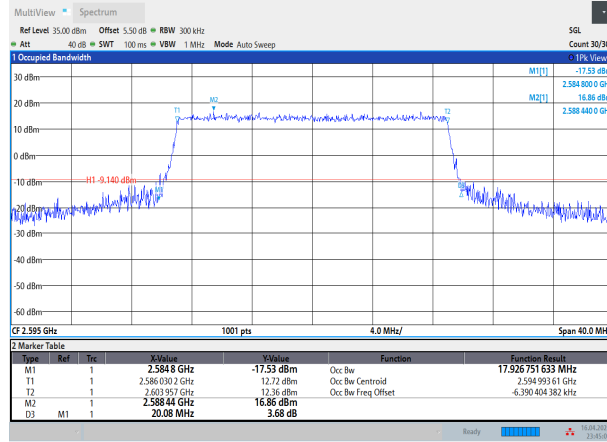
Band38-20MHz-16QAM-37850-100RB#0



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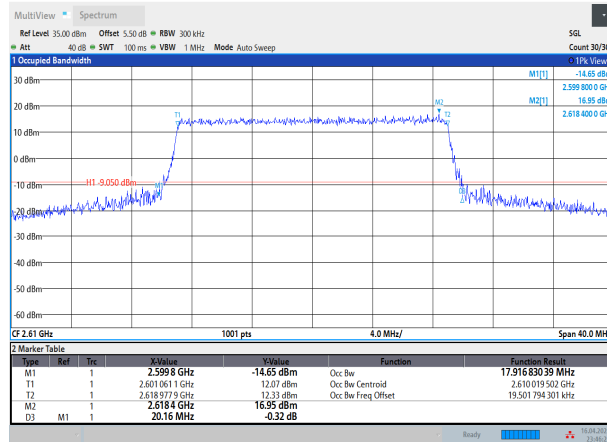


Band38-20MHz-16QAM-38000-100RB#0



23:45:05 16.04.2022

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



23:46:22 16.04.2022

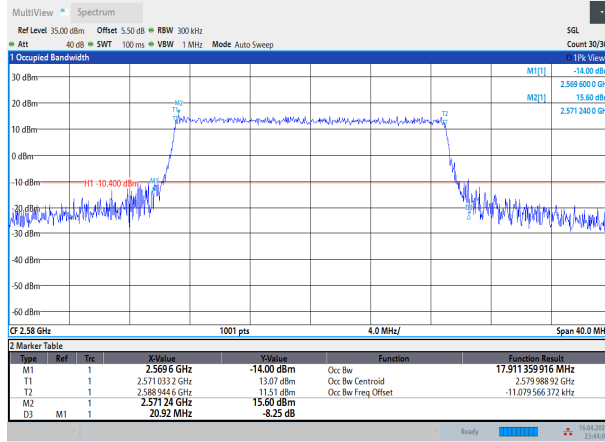


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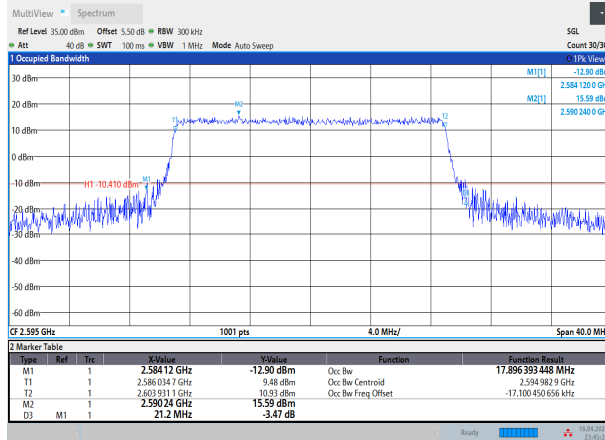
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Band38-20MHz-64QAM-37850-100RB#0



23:44:08 16.04.2022

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



23:45:23 16.04.2022

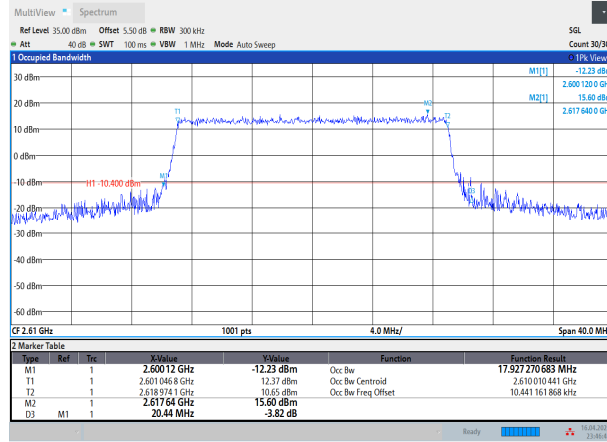


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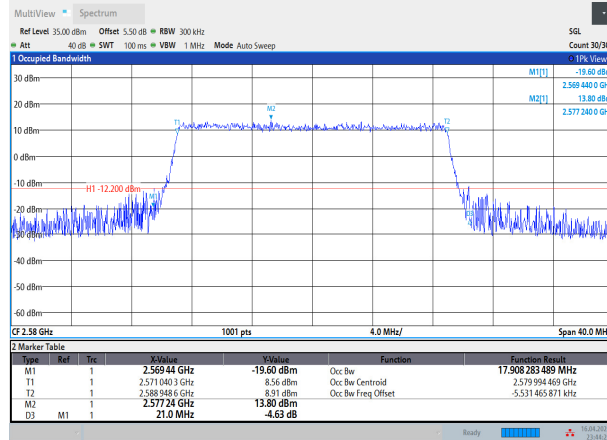
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Band38-20MHz-64QAM-38150-100RB#0



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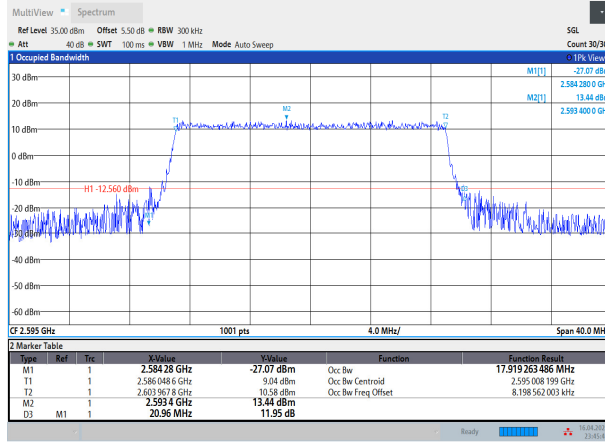
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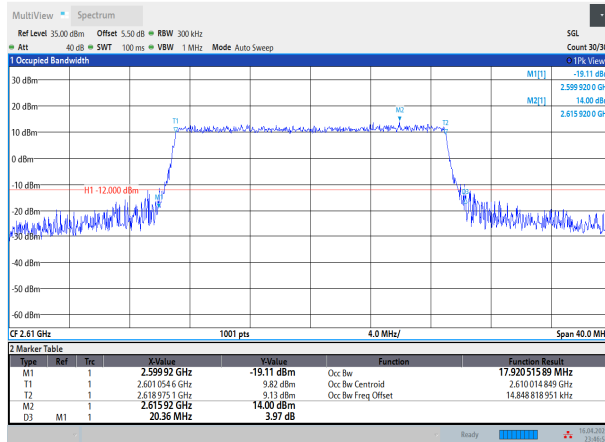


Band38-20MHz-256QAM-38000-100RB#0



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Band38-20MHz-256QAM-38150-100RB#0



23:46:58 16.04.2022



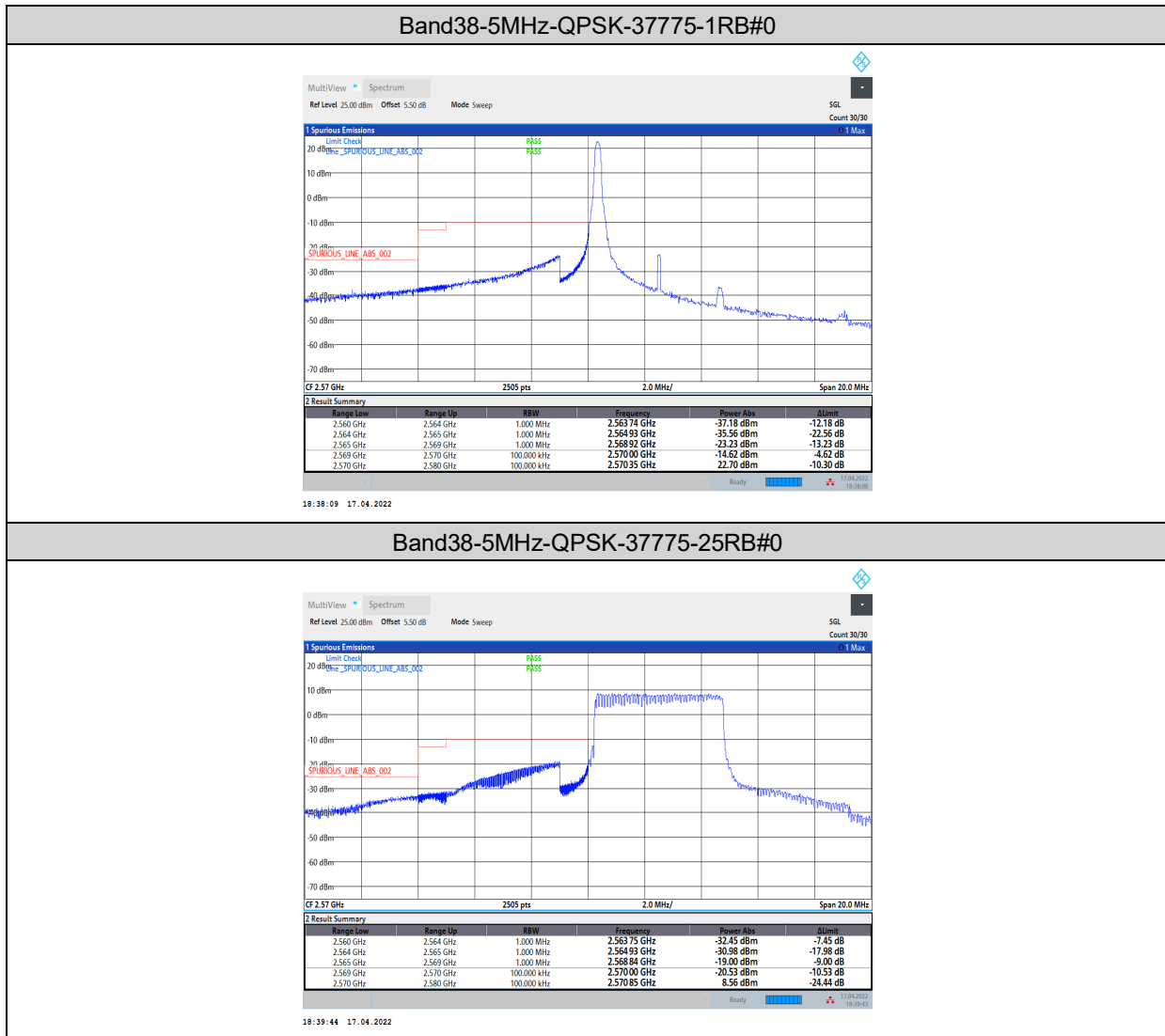
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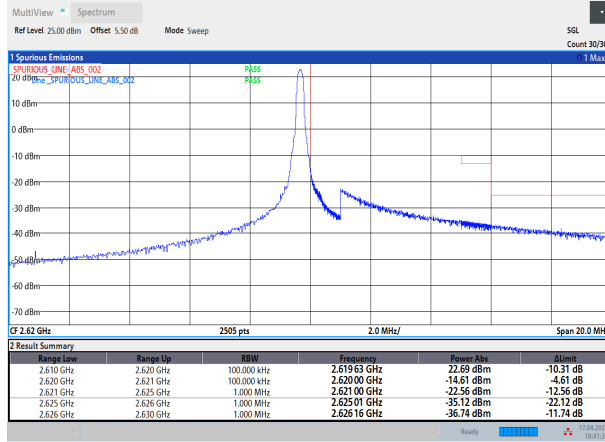
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Band Edge

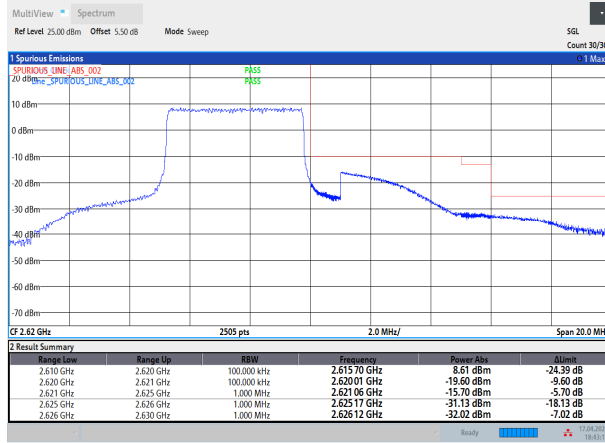
Test Graphs



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



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

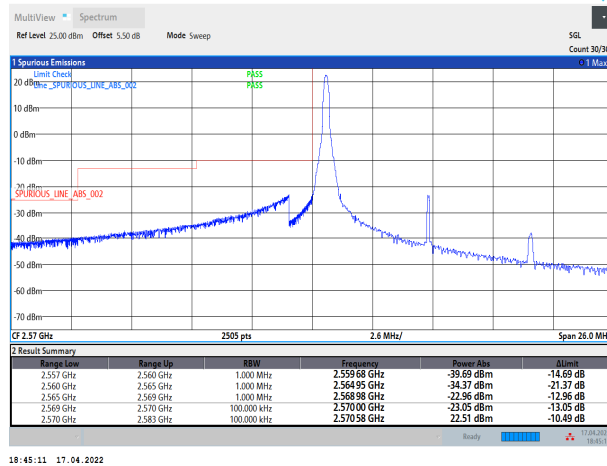


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Band38-10MHz-QPSK-37800-1RB#0



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

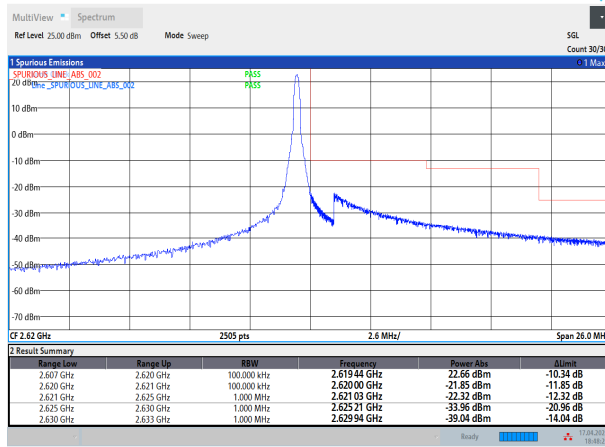


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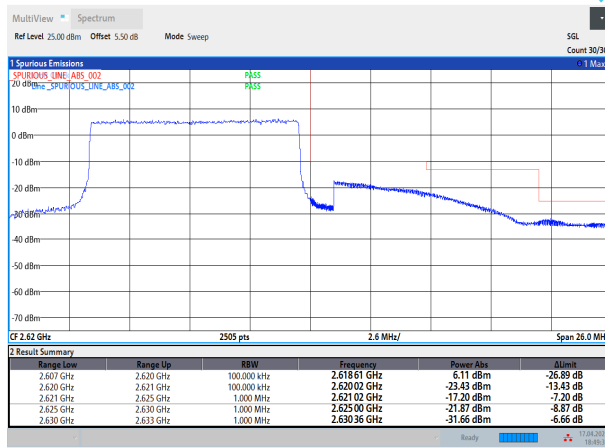
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Band38-10MHz-QPSK-38200-1RB#49



18:48:26 17.04.2022

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



18:49:32 17.04.2022

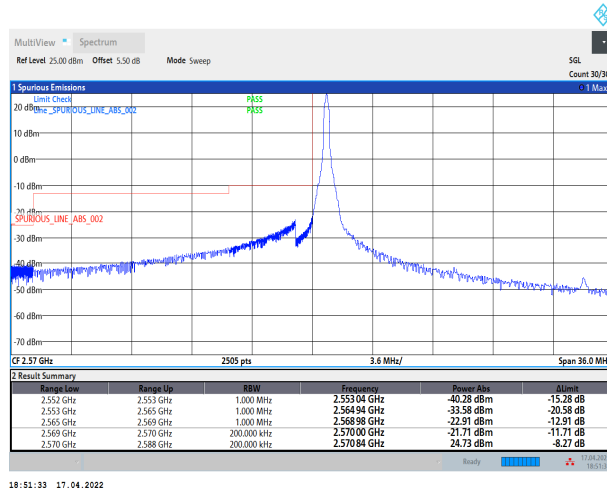


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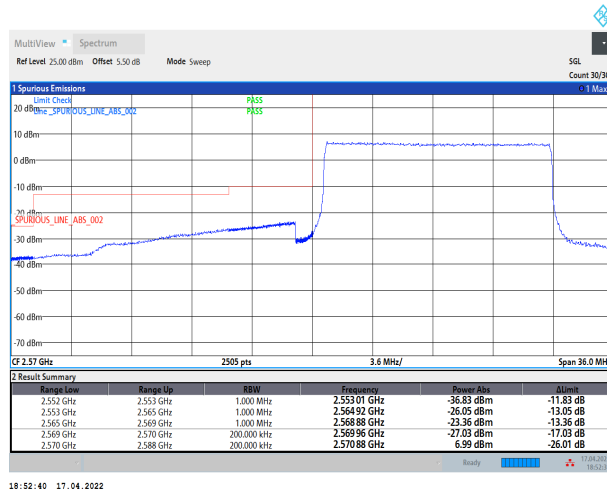
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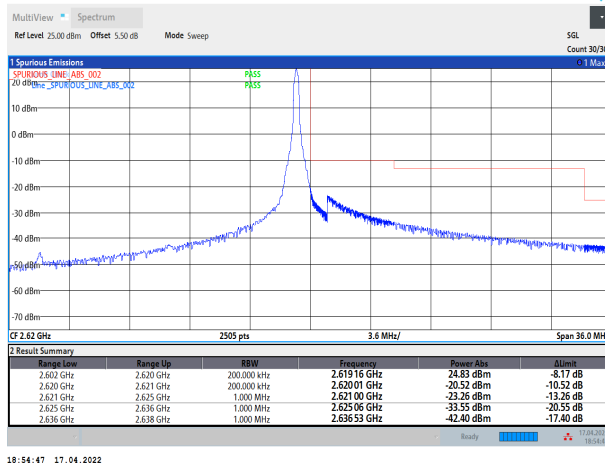
Band38-15MHz-QPSK-37825-75RB#0



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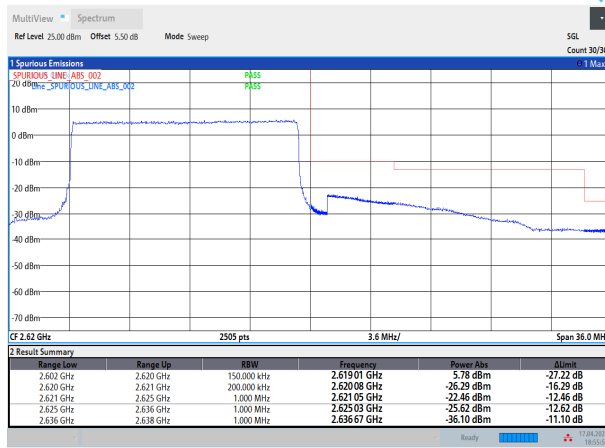
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Band38-15MHz-QPSK-38175-1RB#74



18:54:47 17.04.2022

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



18:55:53 17.04.2022

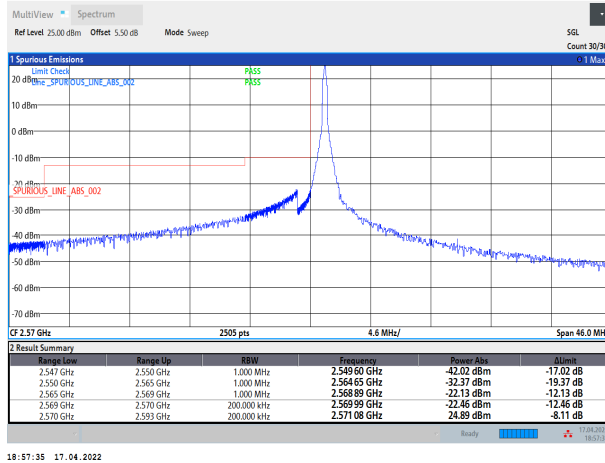


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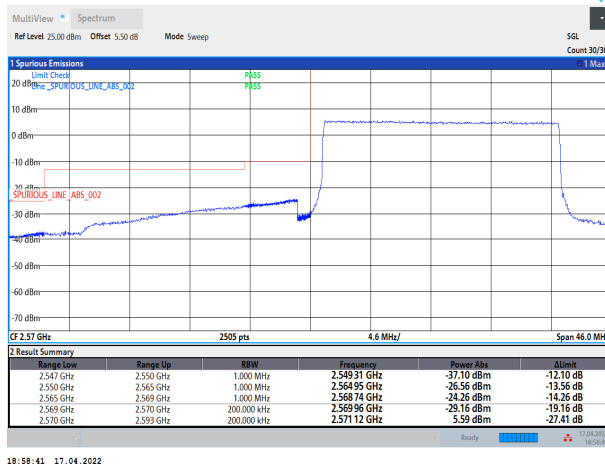
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Band38-20MHz-QPSK-37850-1RB#0



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

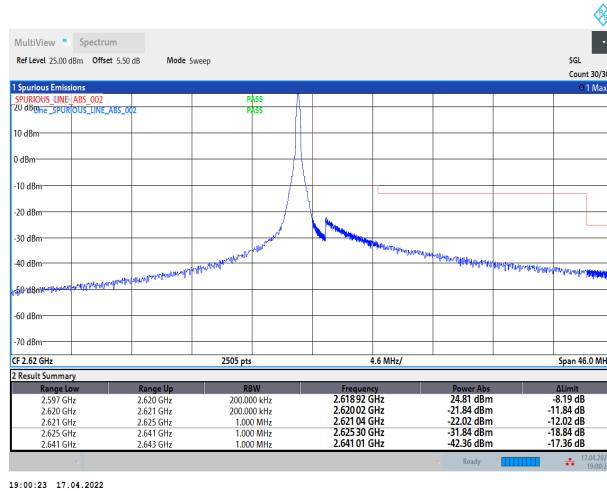


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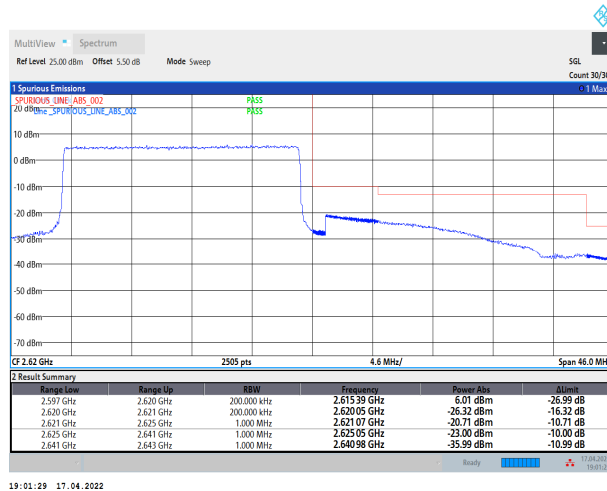
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Band38-20MHz-QPSK-38150-1RB#99



19:00:23 17.04.2022

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



19:01:29 17.04.2022



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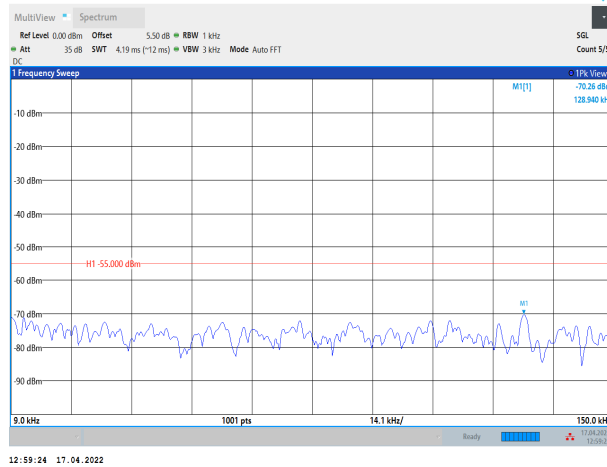
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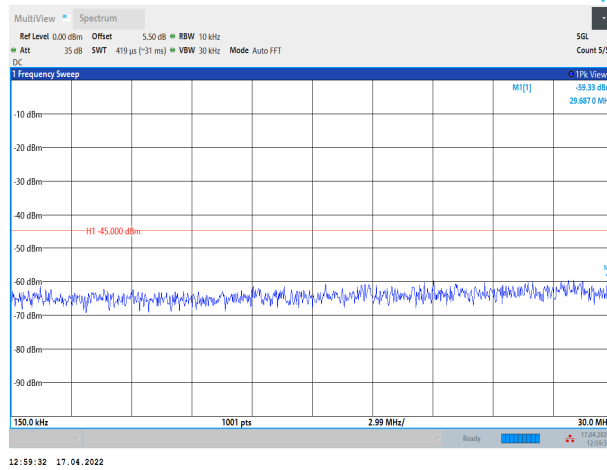
Conducted Spurious Emission

Test Graphs

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



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



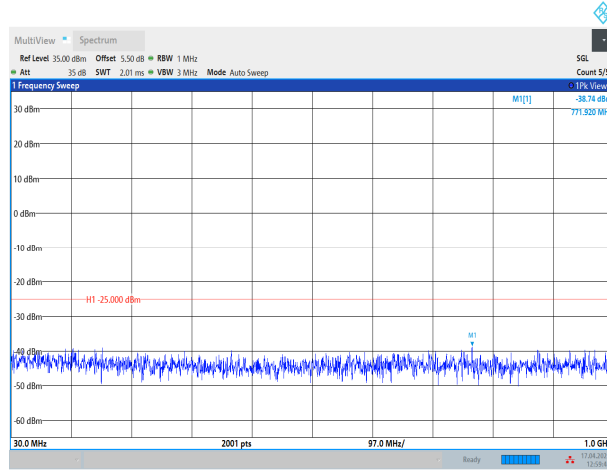
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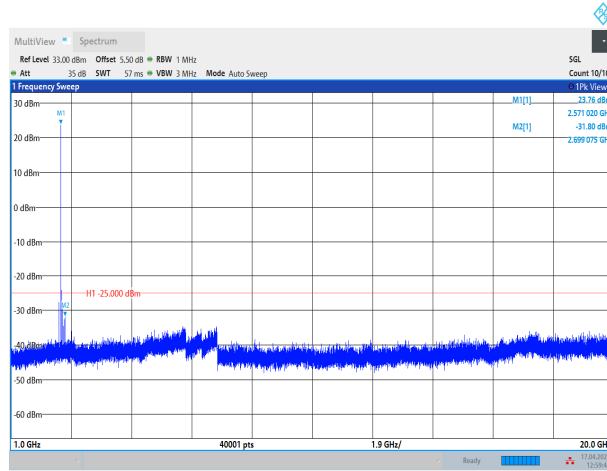
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



12:59:41 17.04.2022

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



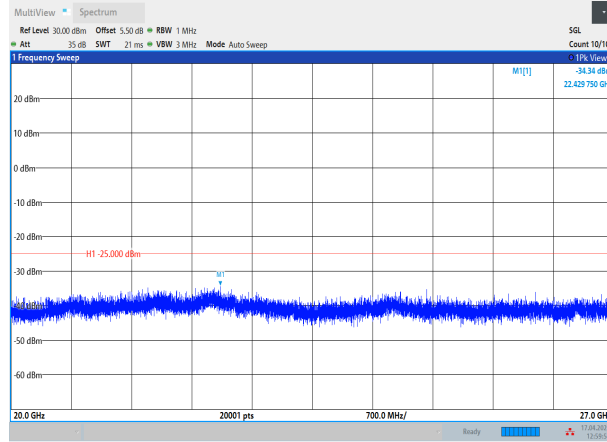
12:59:50 17.04.2022



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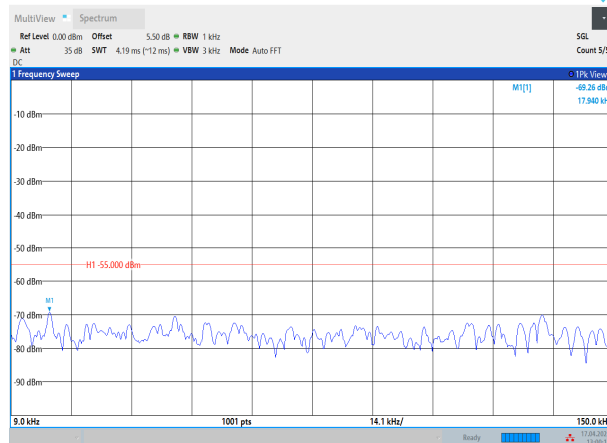
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



12:59:58 17.04.2022

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



13:00:17 17.04.2022

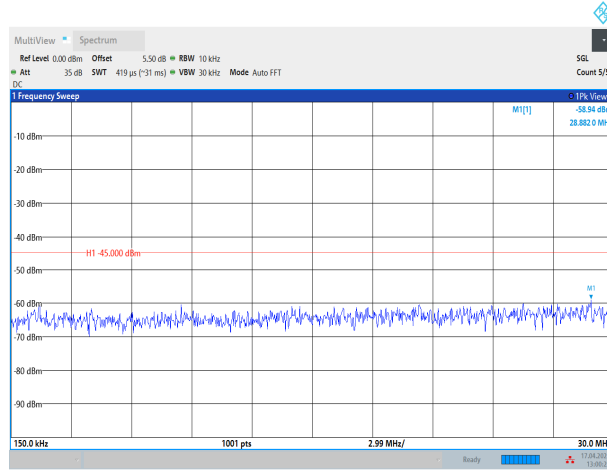


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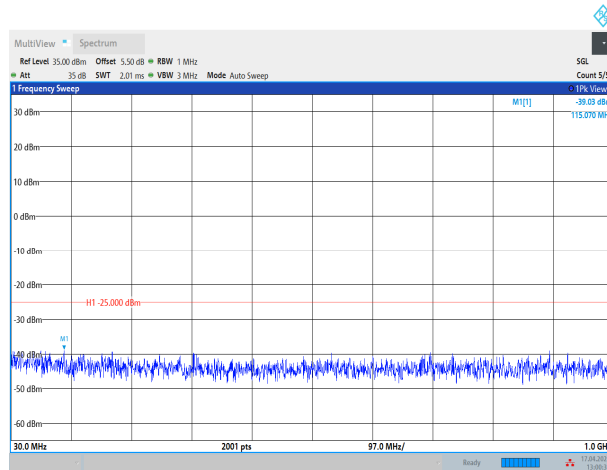
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



13:00:25 17.04.2022

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



13:00:34 17.04.2022

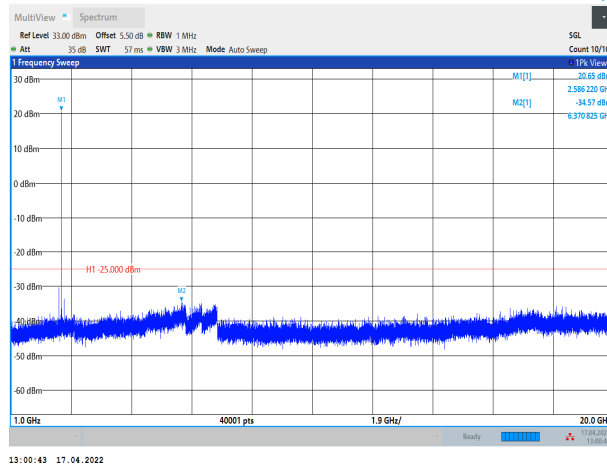


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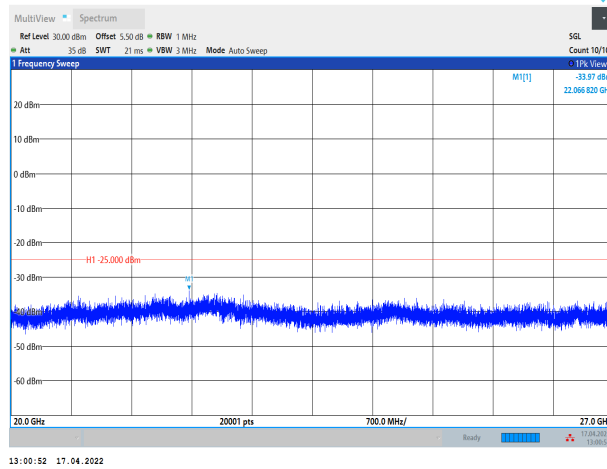
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



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

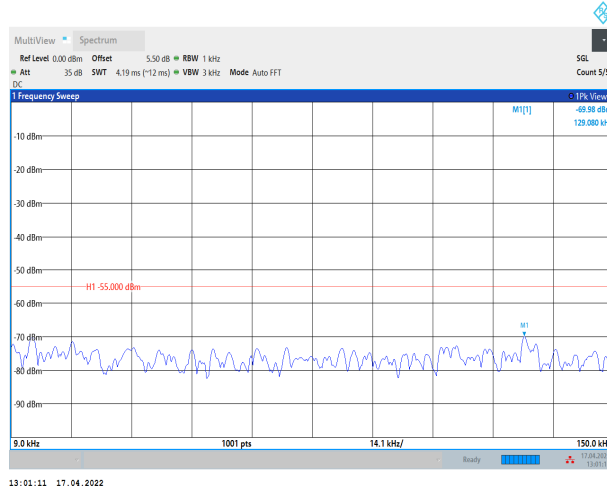


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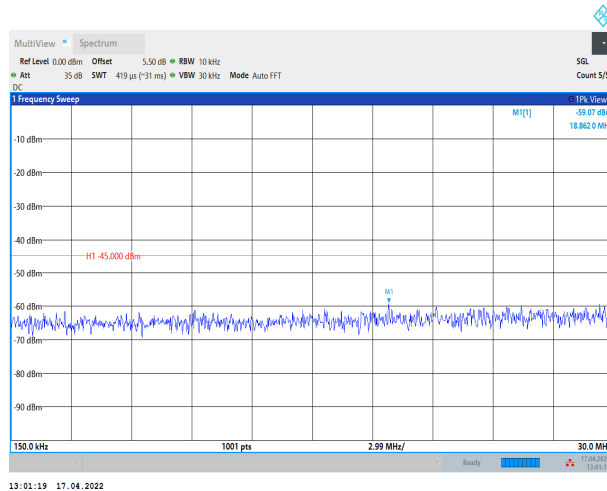
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



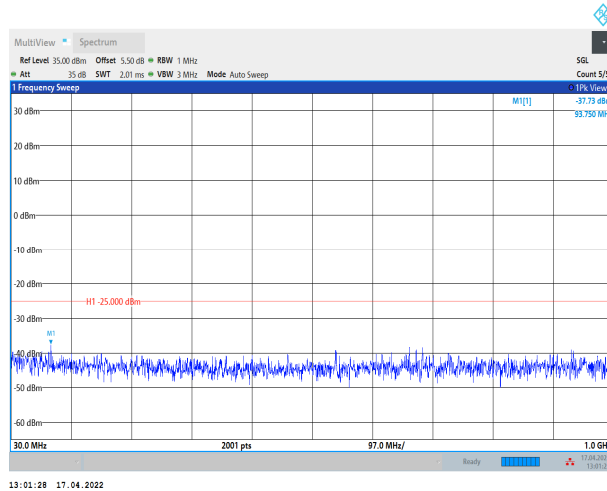
Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



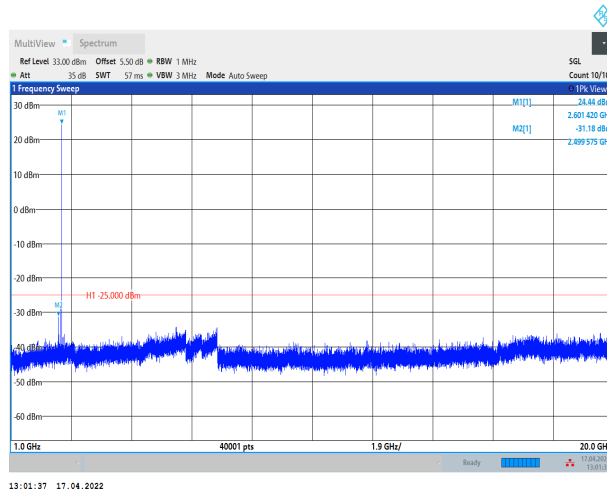
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Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz

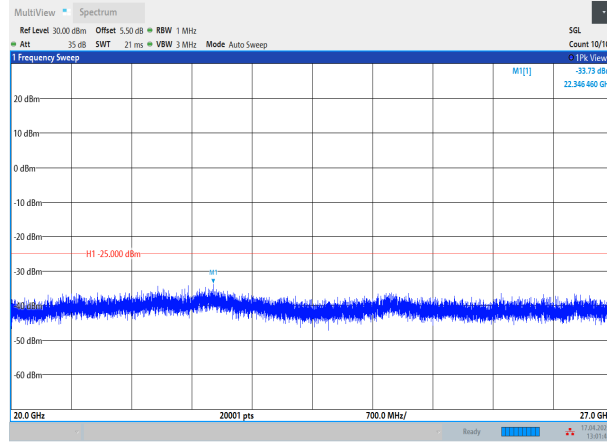


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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



13:01:46 17.04.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 38_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	39.89	-45.33	31.74	-68.96	-25.00	43.96	Horizontal
2	7713.2700	37.19	-43.01	36.69	-64.40	-25.00	39.40	Horizontal
3	10284.3600	29.84	-39.15	38.34	-66.23	-25.00	41.23	Horizontal
4	12855.4500	26.29	-36.99	39.06	-66.90	-25.00	41.90	Horizontal
5	15426.5400	24.14	-34.00	40.40	-64.71	-25.00	39.71	Horizontal
6	17997.6300	26.63	-34.58	46.79	-56.42	-25.00	31.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5142.1800	40.52	-45.33	31.74	-68.33	-25.00	43.33	Vertical
2	7713.2700	37.44	-43.01	36.69	-64.15	-25.00	39.15	Vertical
3	10284.3600	29.97	-39.15	38.34	-66.10	-25.00	41.10	Vertical
4	12855.4500	26.14	-36.99	39.06	-67.05	-25.00	42.05	Vertical
5	15426.5400	23.42	-34.00	40.40	-65.43	-25.00	40.43	Vertical
6	17997.6300	26.35	-34.58	46.79	-56.70	-25.00	31.70	Vertical



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Test Band = LTE Band 38_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5172.1800	42.35	-45.30	31.81	-66.40	-25.00	41.40	Horizontal
2	7758.2700	37.41	-42.65	36.70	-63.79	-25.00	38.79	Horizontal
3	10344.3600	30.02	-39.05	38.37	-65.92	-25.00	40.92	Horizontal
4	12930.4500	25.33	-37.18	39.08	-68.03	-25.00	43.03	Horizontal
5	15516.5400	22.90	-35.30	40.21	-67.45	-25.00	42.45	Horizontal
6	17203.5	29.46	-35.01	43.22	-57.59	-25.00	32.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5172.1800	40.73	-45.30	31.81	-68.02	-25.00	43.02	Vertical
2	7758.2700	39.42	-42.65	36.70	-61.78	-25.00	36.78	Vertical
3	10344.3600	30.63	-39.05	38.37	-65.31	-25.00	40.31	Vertical
4	12930.4500	26.07	-37.18	39.08	-67.29	-25.00	42.29	Vertical
5	15516.5400	23.71	-35.30	40.21	-66.64	-25.00	41.64	Vertical
6	17687.5	27.65	-33.93	45.39	-56.15	-25.00	31.15	Vertical



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Test Band = LTE Band 38_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5202.1800	41.21	-45.28	31.89	-67.44	-25.00	42.44	Horizontal
2	7803.2700	37.43	-42.33	36.72	-63.44	-25.00	38.44	Horizontal
3	10404.3600	30.07	-39.00	38.40	-65.79	-25.00	40.79	Horizontal
4	13005.4500	26.57	-37.31	39.11	-66.89	-25.00	41.89	Horizontal
5	15606.5400	22.99	-34.87	40.03	-67.12	-25.00	42.12	Horizontal
6	17753	29.51	-34.35	45.69	-54.41	-25.00	29.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5202.1800	40.65	-45.28	31.89	-68.00	-25.00	43.00	Vertical
2	7803.2700	38.38	-42.33	36.72	-62.49	-25.00	37.49	Vertical
3	10404.3600	30.17	-39.00	38.40	-65.69	-25.00	40.69	Vertical
4	13005.4500	25.59	-37.31	39.11	-67.87	-25.00	42.87	Vertical
5	15606.5400	23.34	-34.87	40.03	-66.77	-25.00	41.77	Vertical
6	17848.5	29.67	-34.57	46.12	-54.04	-25.00	29.04	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:

 $AF = \text{Antenna Factor (dB/m)}$
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$


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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	-0.70	-0.000270	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-1.60	-0.000617	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-1.40	-0.000539	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-0.20	-0.000077	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-1.90	-0.000732	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	0.90	0.000347	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	0.50	0.000193	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-1.40	-0.000539	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	0.30	0.000116	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-1.90	-0.000732	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-2.50	-0.000963	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	0.00	0.000000	PASS

---End of Attachment---



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