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Appendix B.12

LTE Band 38



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT4

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.20	22.40	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.18	22.38	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.17	22.37	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.09	21.29	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.53	22.73	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.61	22.81	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.56	22.76	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.46	21.66	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.38	22.58	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.38	22.58	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.38	22.58	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.33	21.53	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.24	21.44	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.19	21.39	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.20	21.40	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.06	20.26	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.54	21.74	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.57	21.77	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.58	21.78	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.45	20.65	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.42	21.62	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.41	21.61	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.41	21.61	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.32	20.52	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	20.75	19.95	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	20.67	19.87	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	20.67	19.87	33.00	PASS



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Band38	5MHz	64QAM	37775	25RB#0	20.11	19.31	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.07	20.27	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.08	20.28	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.07	20.27	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.52	19.72	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.95	20.15	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	20.91	20.11	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	20.91	20.11	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.35	19.55	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.21	22.41	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.17	22.37	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.15	22.35	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.06	21.26	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.46	22.66	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.55	22.75	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.52	22.72	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.39	21.59	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.41	22.61	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.39	22.59	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.36	22.56	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.32	21.52	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.21	21.41	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.17	21.37	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.12	21.32	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.06	20.26	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.46	21.66	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.56	21.76	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.52	21.72	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.45	20.65	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.43	21.63	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.40	21.60	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.38	21.58	33.00	PASS



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Band38	10MHz	16QAM	38200	50RB#0	21.35	20.55	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	20.70	19.90	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	20.69	19.89	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.63	19.83	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.02	19.22	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.97	20.17	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.06	20.26	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.01	20.21	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.39	19.59	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	20.95	20.15	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	20.93	20.13	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.89	20.09	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.28	19.48	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.18	22.38	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.04	22.24	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.08	22.28	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.07	21.27	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.38	22.58	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.54	22.74	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.42	22.62	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.43	21.63	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.50	22.70	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.39	22.59	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.30	22.50	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.37	21.57	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.20	21.40	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.08	21.28	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.10	21.30	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.04	20.24	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.37	21.57	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.57	21.77	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.45	21.65	33.00	PASS



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Band38	15MHz	16QAM	38000	75RB#0	21.41	20.61	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.53	21.73	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.43	21.63	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.34	21.54	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.38	20.58	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	20.71	19.91	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.60	19.80	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	20.61	19.81	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.02	19.22	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.90	20.10	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.08	20.28	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	20.96	20.16	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.39	19.59	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.05	20.25	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.94	20.14	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.86	20.06	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.35	19.55	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.22	22.42	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.16	22.36	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.29	22.49	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.08	21.28	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.24	22.44	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.54	22.74	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.36	22.56	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.35	21.55	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.61	22.81	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.42	22.62	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.26	22.46	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.39	21.59	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.22	21.42	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.16	21.36	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.28	21.48	33.00	PASS



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Band38	20MHz	16QAM	37850	100RB#0	21.11	20.31	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.23	21.43	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.54	21.74	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.37	21.57	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.39	20.59	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.63	21.83	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.43	21.63	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.27	21.47	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.41	20.61	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.68	19.88	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	20.66	19.86	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	20.79	19.99	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.05	19.25	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	20.75	19.95	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.04	20.24	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.88	20.08	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.34	19.54	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.14	20.34	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	20.97	20.17	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.81	20.01	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.33	19.53	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	7.78	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.92	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.86	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.50	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.56	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	8.72	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.90	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.92	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.80	13	PASS



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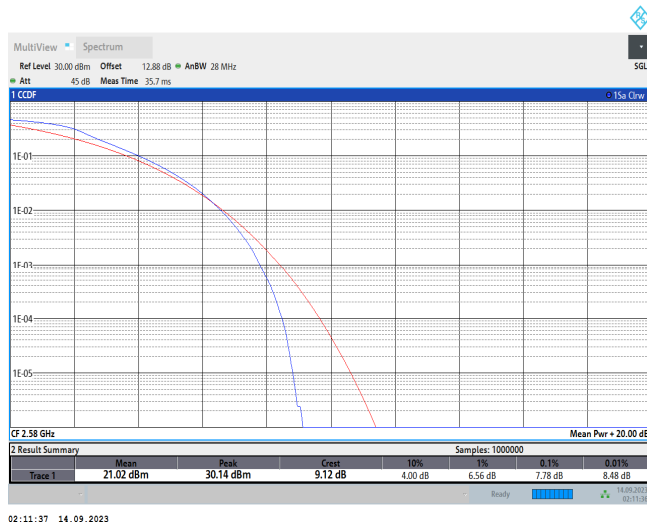
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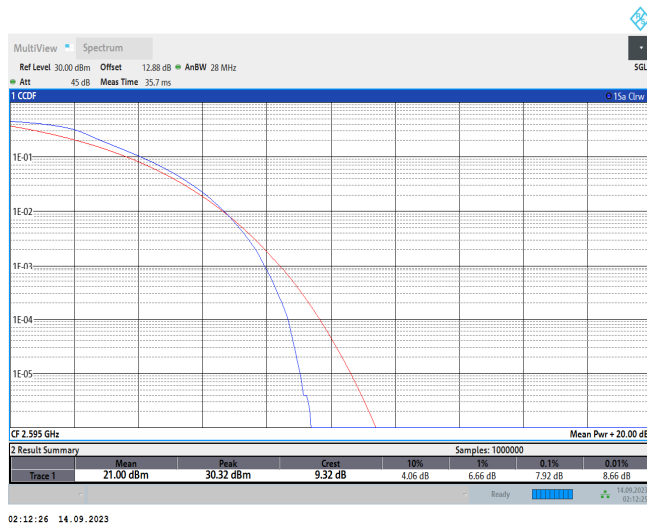
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Test Graphs

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



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

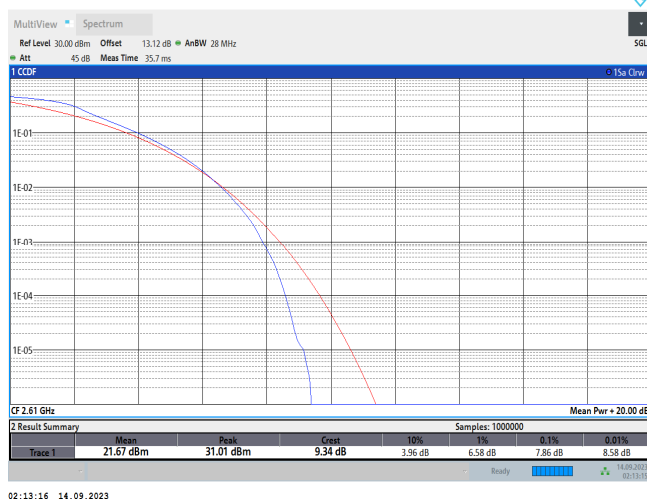


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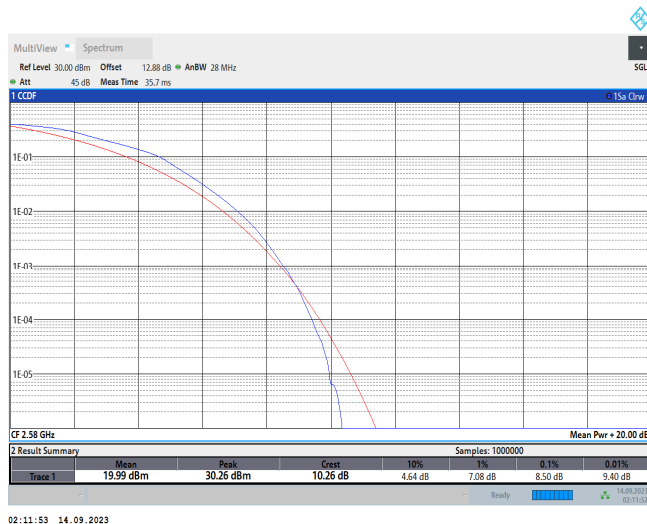
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Band38-20MHz-QPSK-38150-100RB#0



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

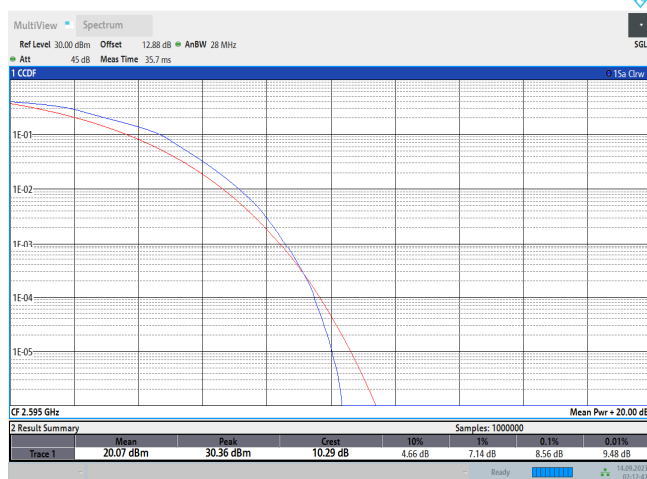


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Band38-20MHz-16QAM-38000-100RB#0



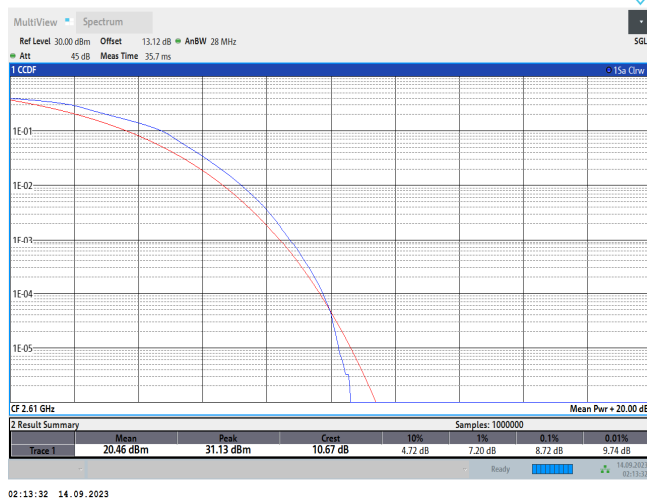
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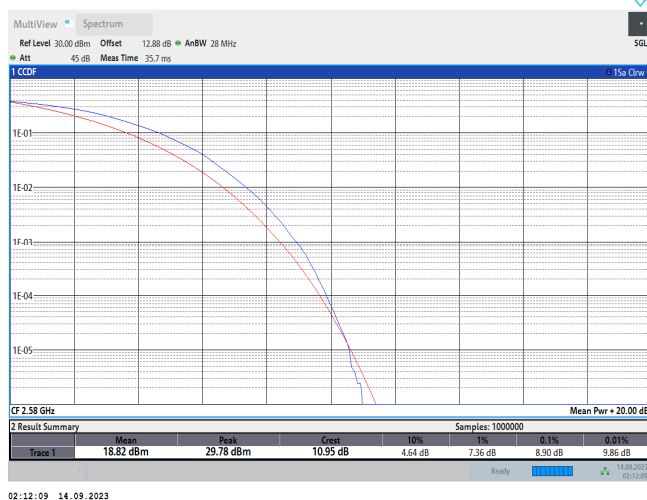
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Band38-20MHz-16QAM-38150-100RB#0



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



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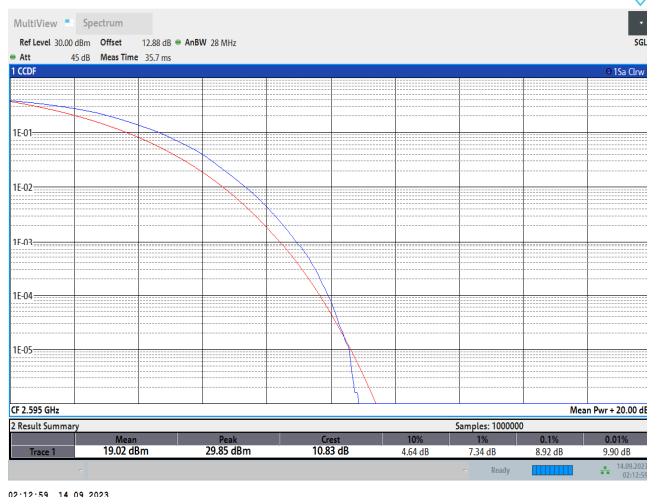
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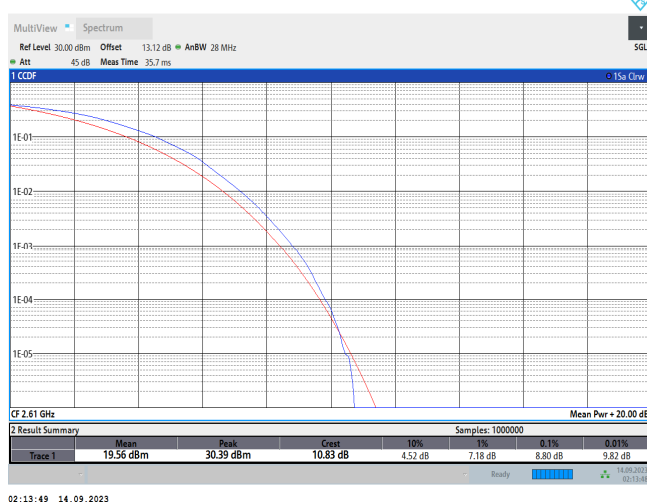
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Band38-20MHz-64QAM-38000-100RB#0



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



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.479	4.85	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.479	4.85	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.478	4.86	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.466	4.85	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.465	4.85	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.465	4.85	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.479	4.83	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.479	4.83	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.476	4.83	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.925	9.82	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.93	9.82	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.93	9.86	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.932	9.78	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.935	9.96	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.933	9.84	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.951	9.98	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.951	10.22	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.95	9.96	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.533	15.72	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.528	15.69	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.588	18.60	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.497	15.75	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.498	15.57	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.496	15.69	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.474	15.51	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.471	15.57	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.467	15.51	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.976	20.40	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.964	20.24	PASS



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Band38	20MHz	QPSK	38150	100RB#0	17.962	19.96	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.933	20.84	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.923	20.24	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.912	20.12	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.921	19.52	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.919	19.68	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.903	19.48	PASS



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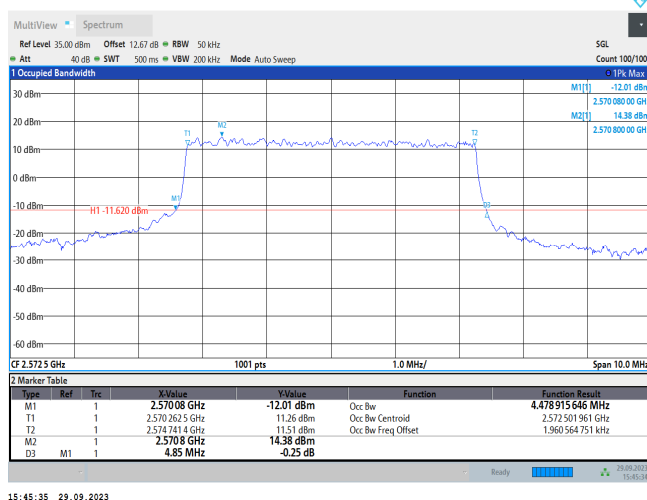
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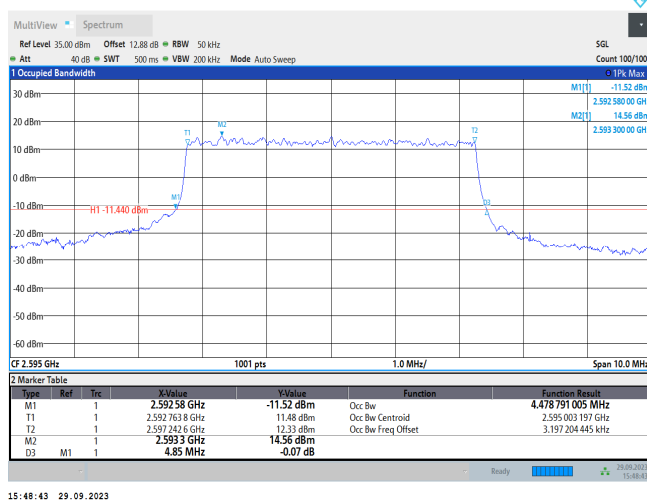
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Test Graphs

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



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

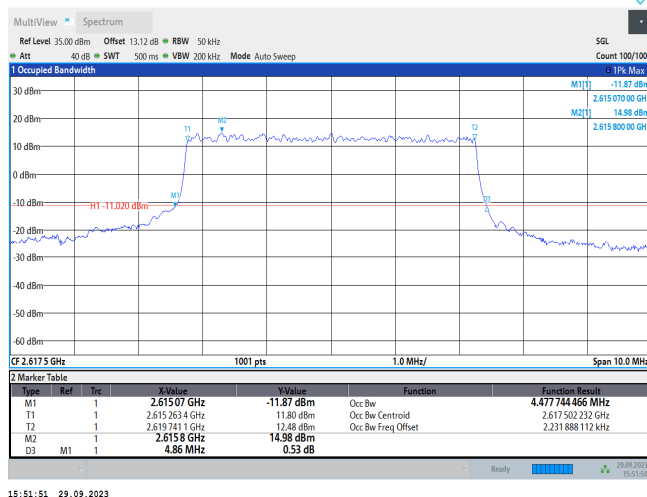


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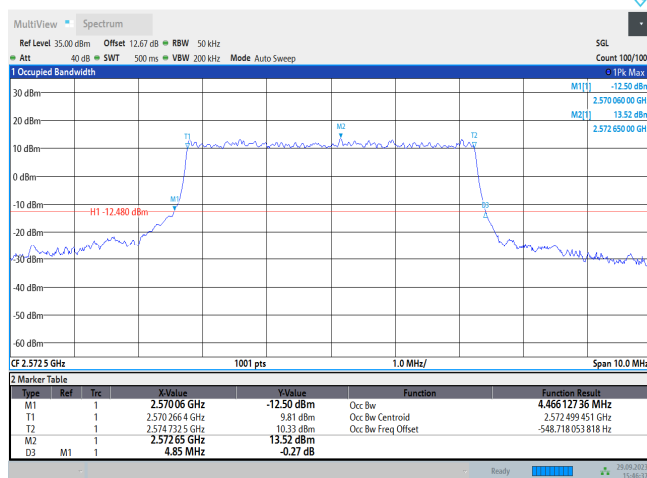
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Band38-5MHz-QPSK-38225-25RB#0



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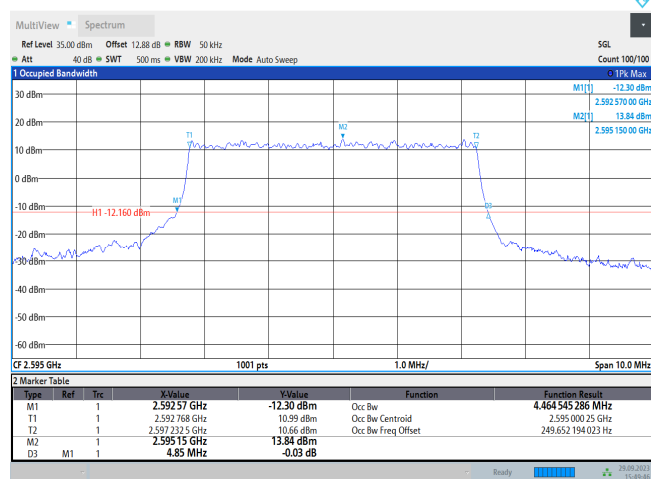
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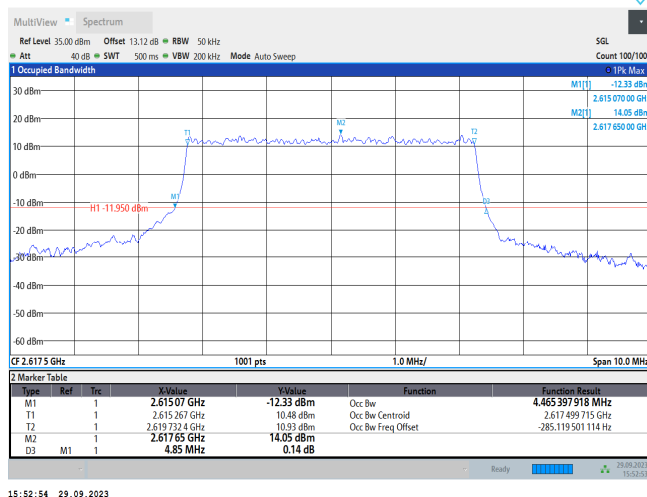


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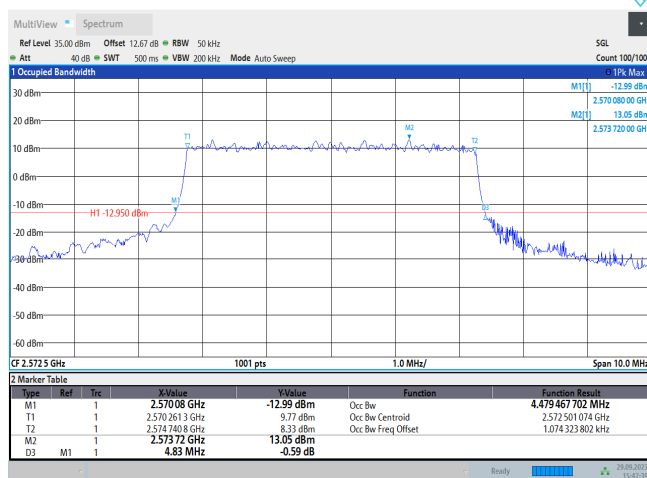
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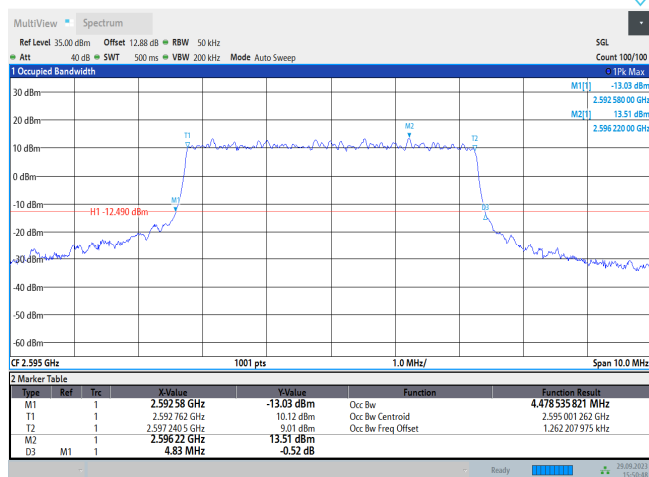
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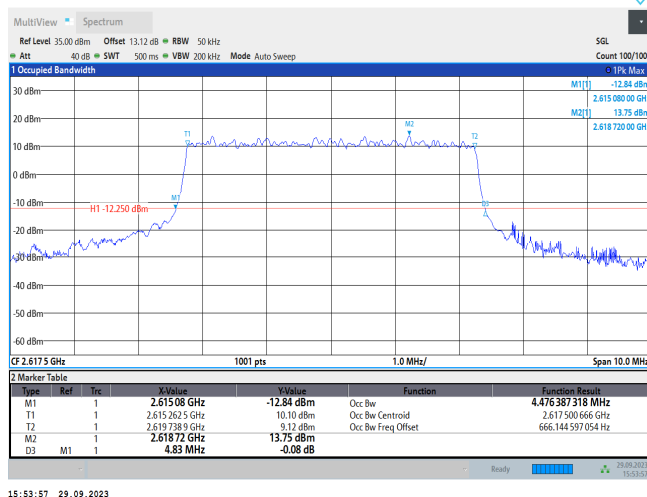
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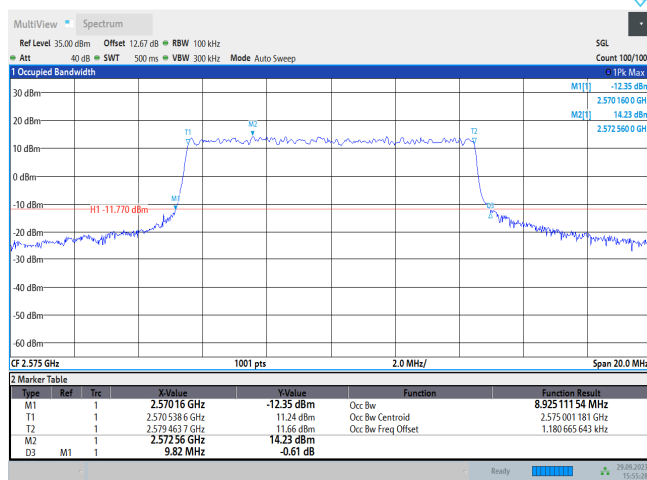
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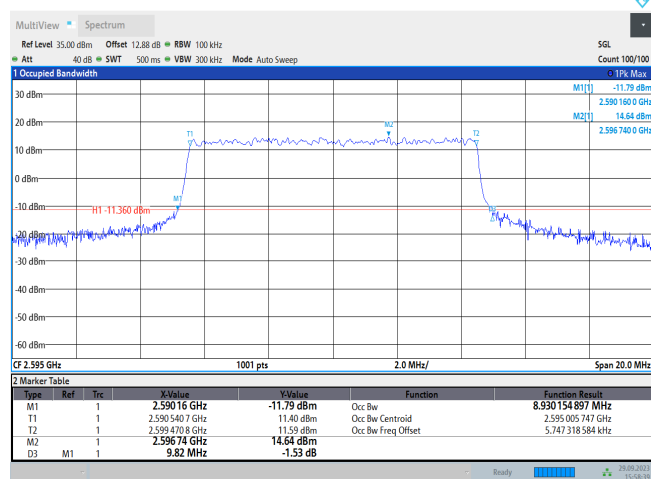
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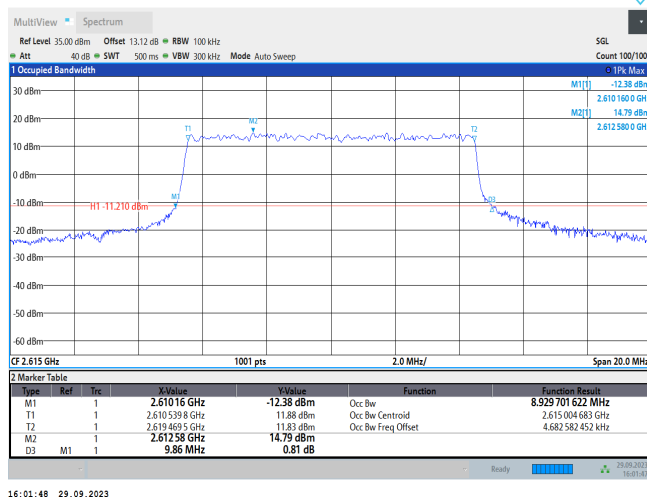


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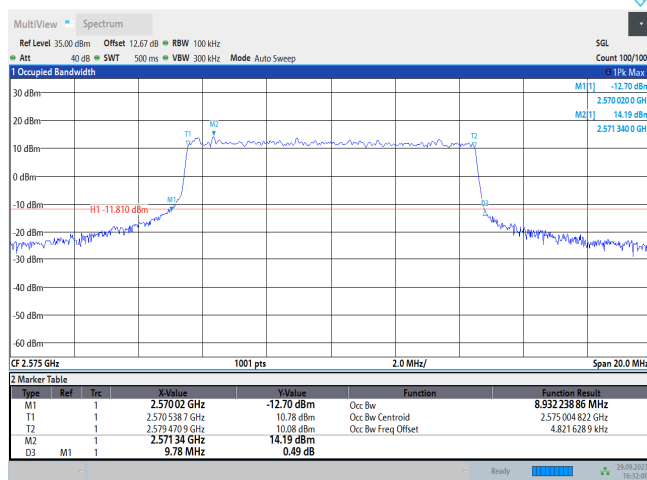
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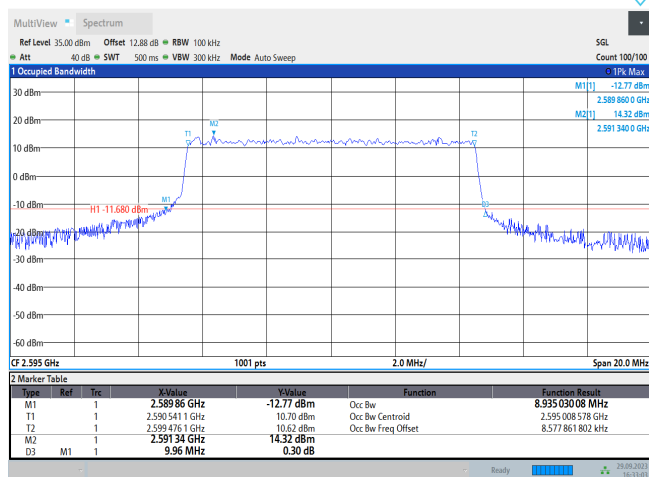
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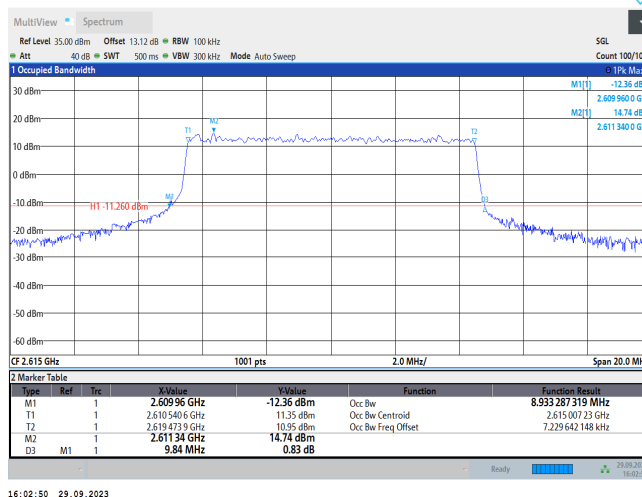
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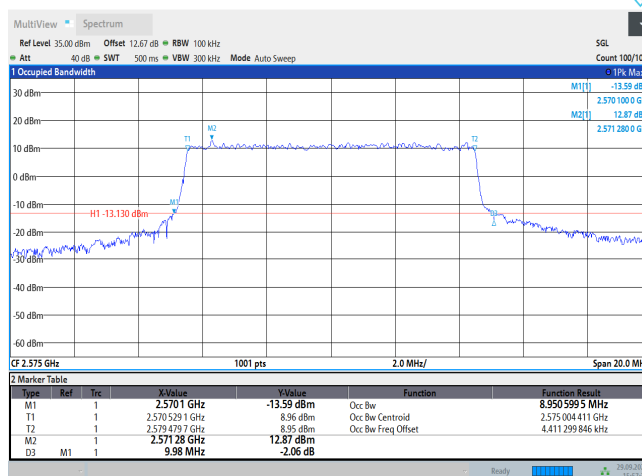
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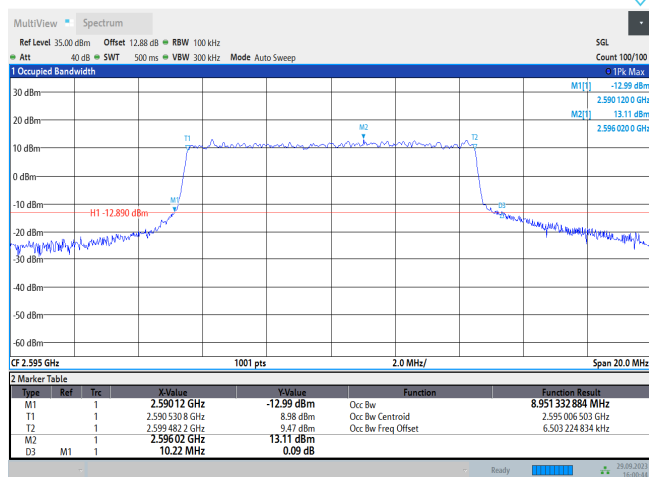
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16:00:45 29.09.2023



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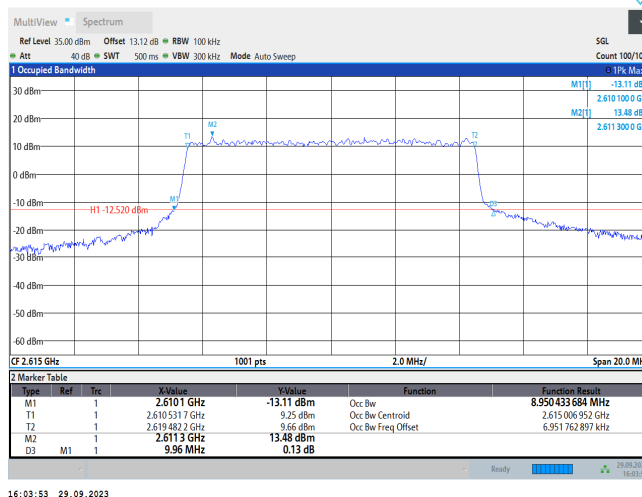
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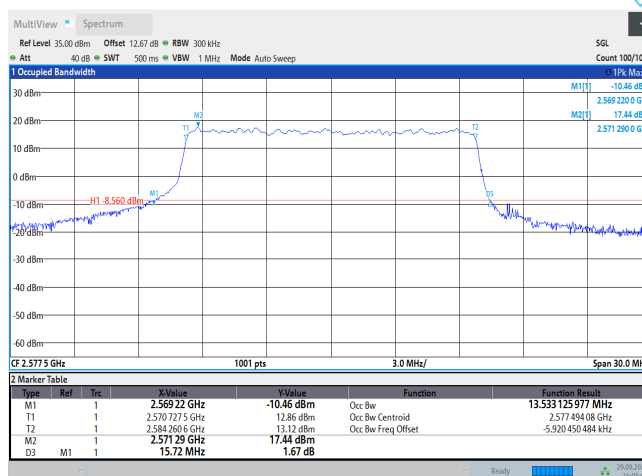
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Band38-10MHz-64QAM-38200-50RB#0



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



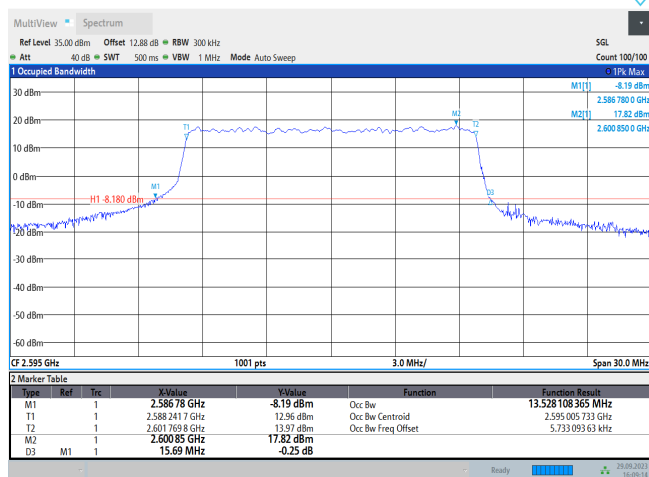
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Band38- 15MHz-QPSK-38000-75RB#0



16:09:14 29.09.2023



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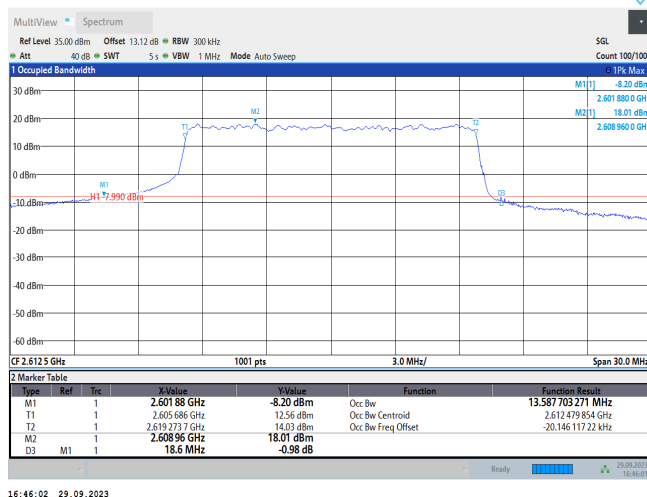
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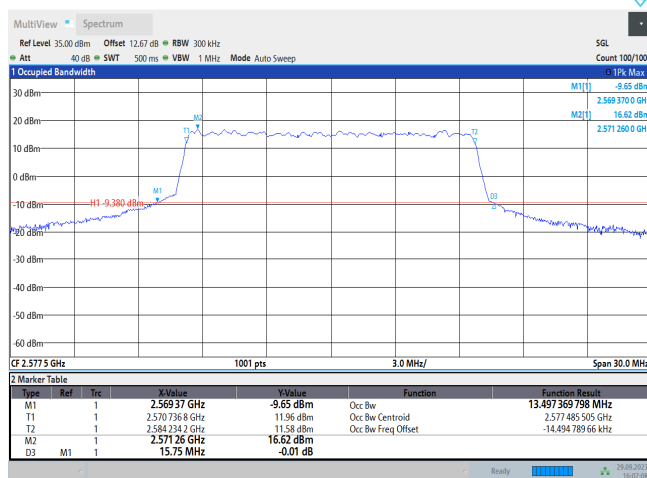
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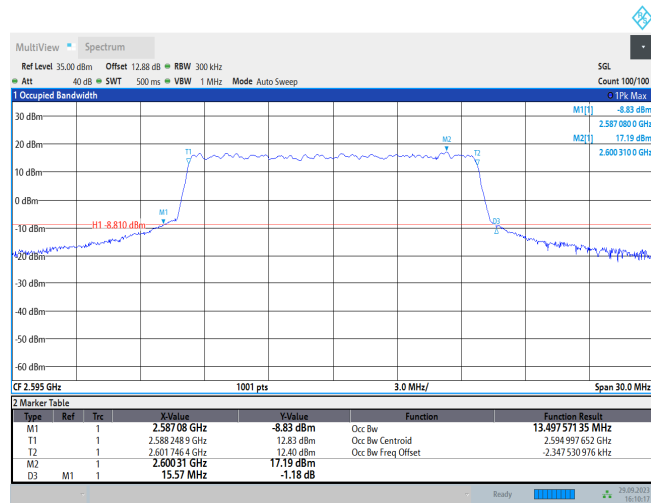
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Band38-15MHz-16QAM-38000-75RB#0



16-10-17 29 09 2023



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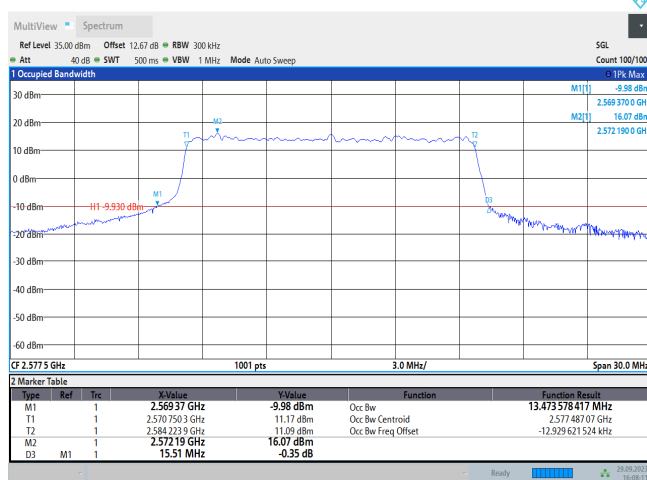
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Band38-15MHz-16QAM-38175-75RB#0



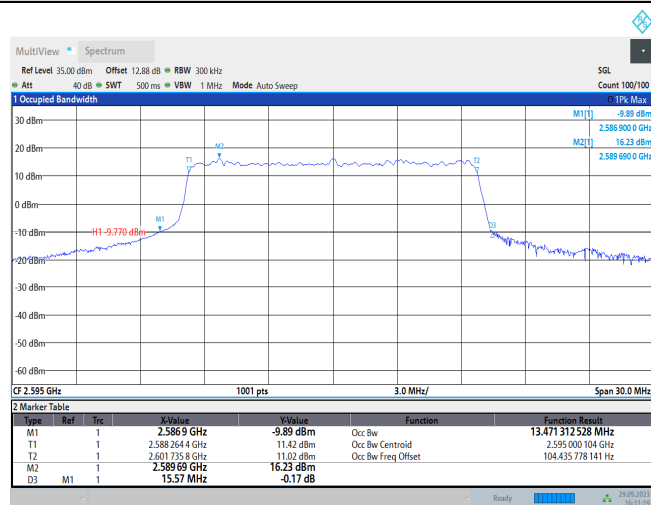
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Band38-20MHz-QPSK-37850-100RB#0



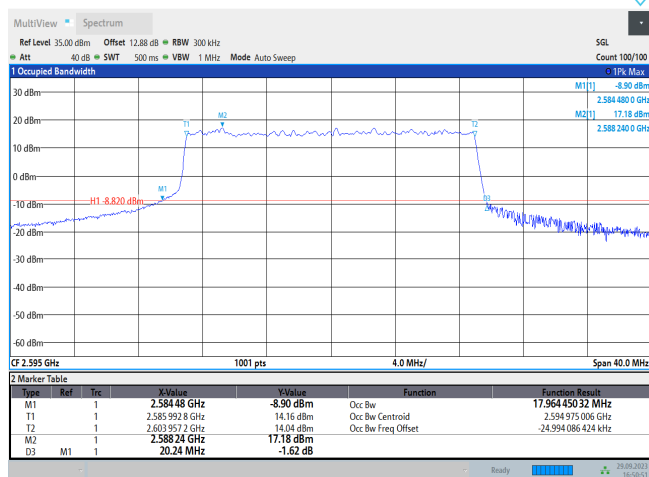
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Band38-20MHz-QPSK-38000-100RB#0



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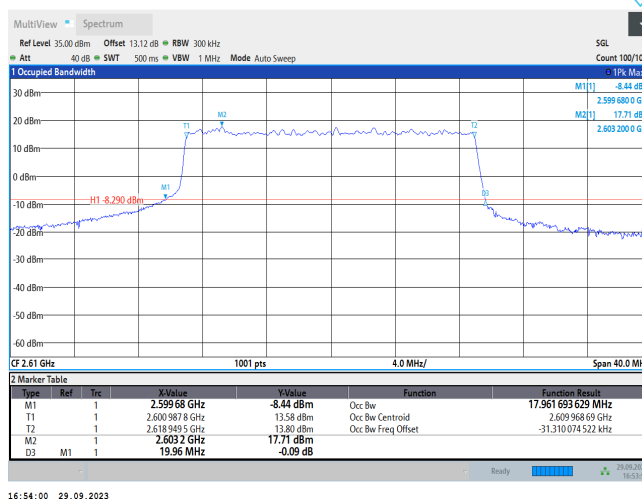
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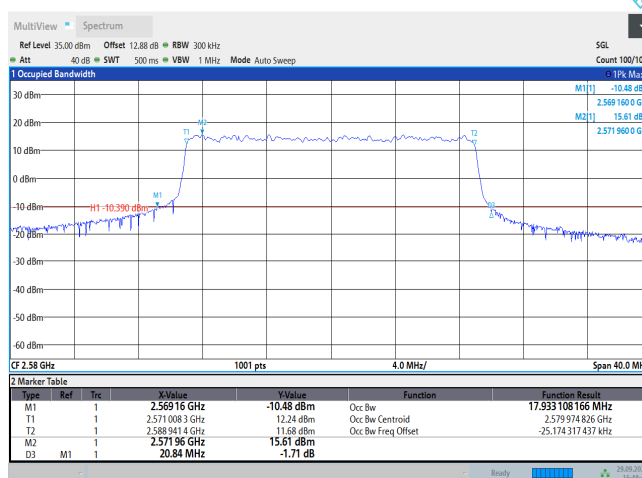
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Band38-20MHz-QPSK-38150-100RB#0



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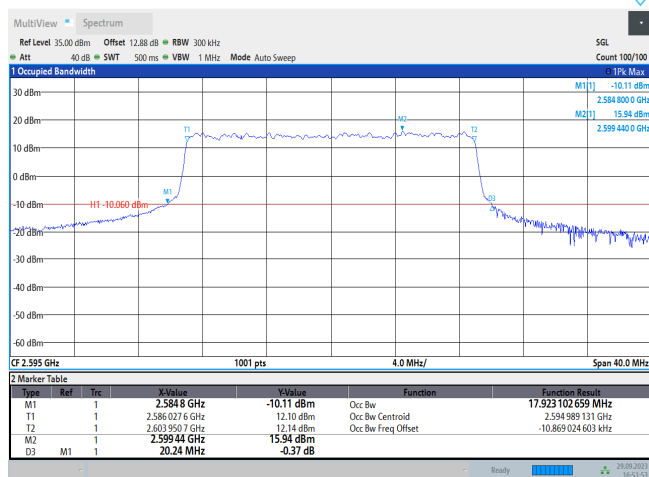


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Band38-20MHz-16QAM-38000-100RB#0



16:51:54 29.09.2023



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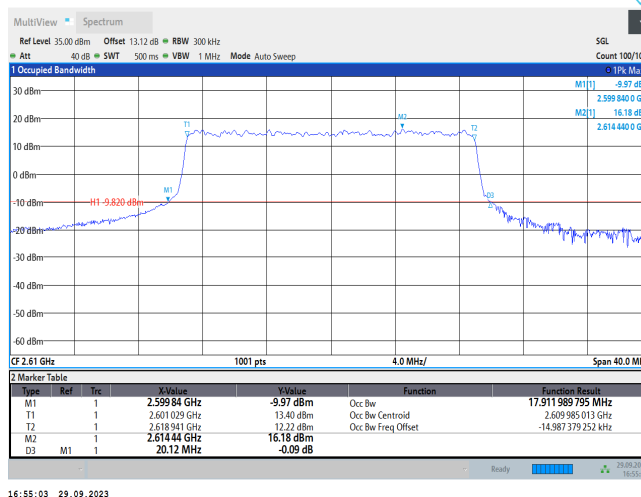
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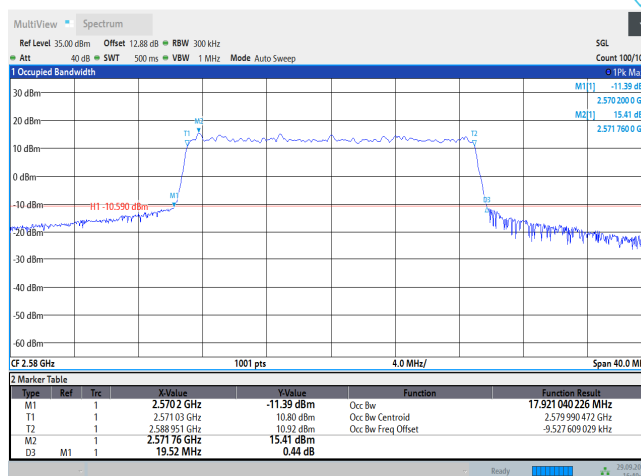
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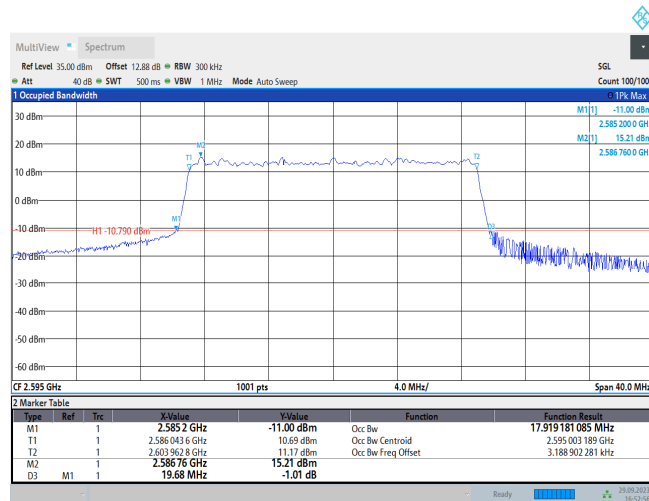
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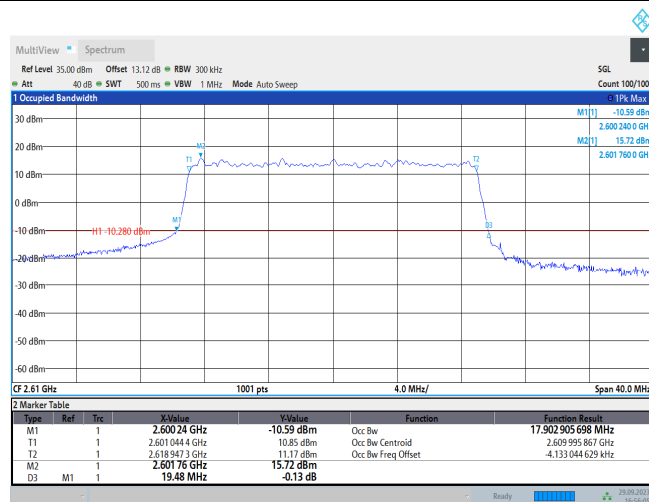
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Band38-20MHz-64QAM-38000-100RB#0



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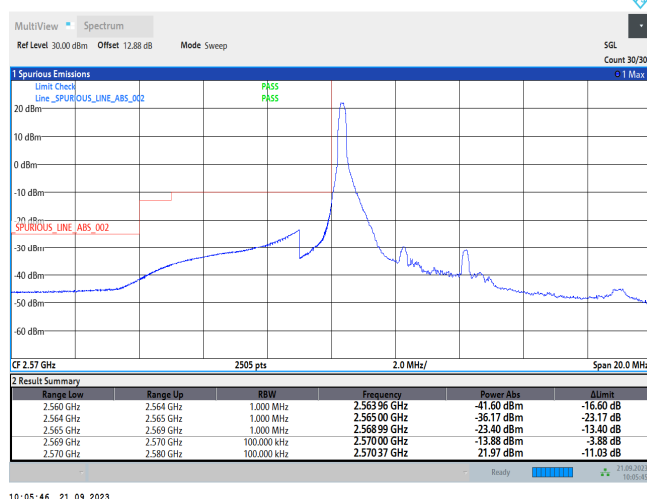
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Band Edge

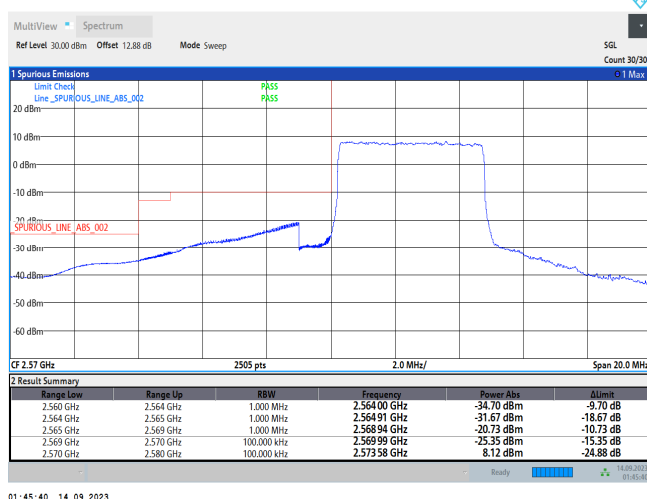
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Band38-5MHz-QPSK-37775-1RB#0



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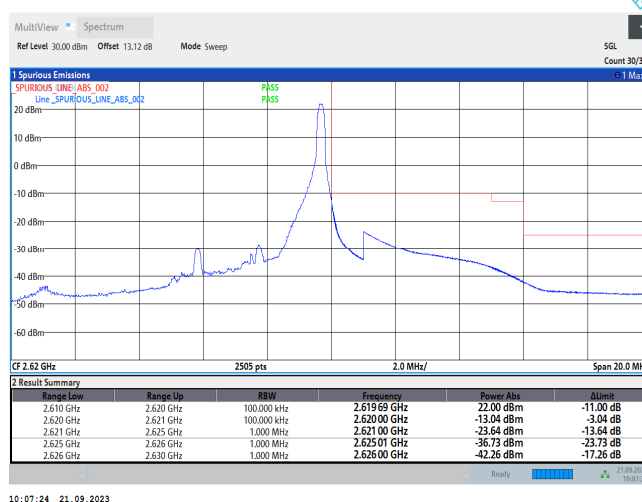
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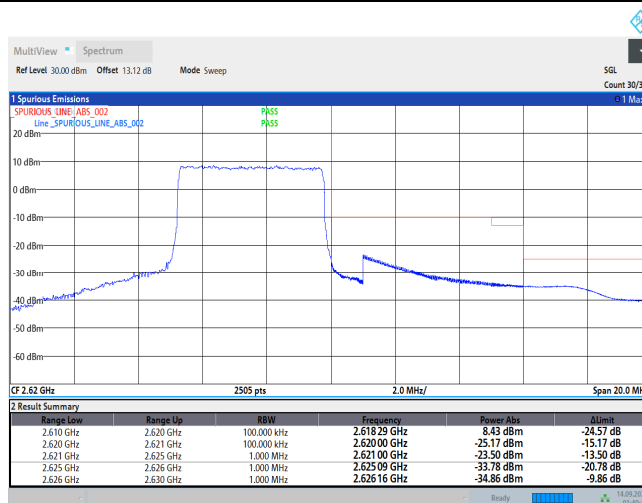
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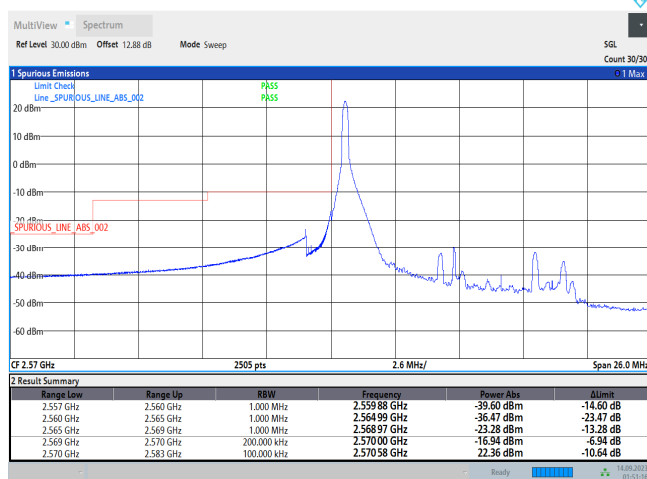
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Band38-10MHz-QPSK-37800-1RB#0



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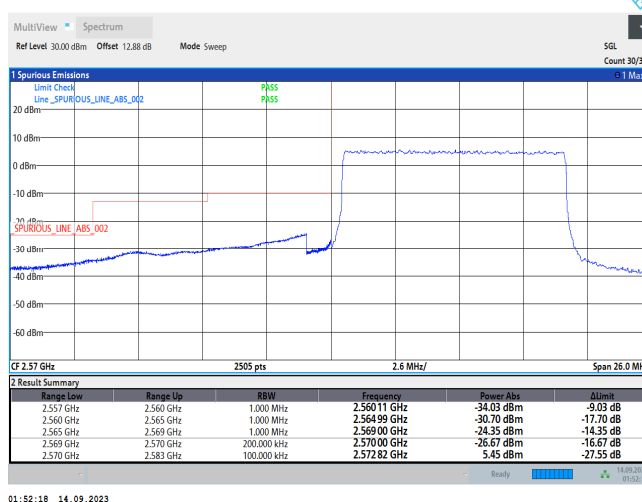
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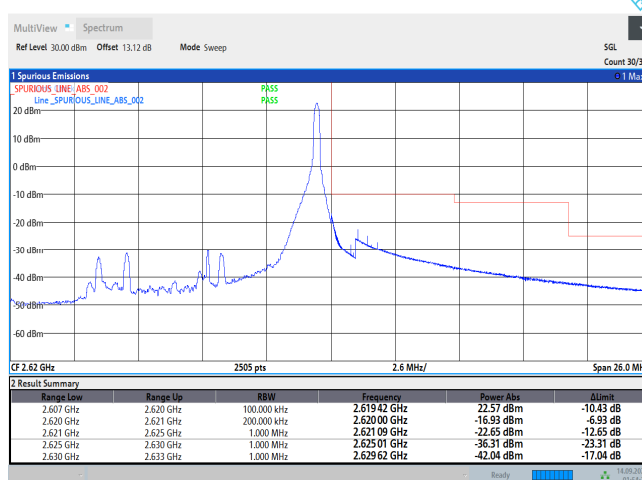
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Band38-10MHz-QPSK-37800-50RB#0



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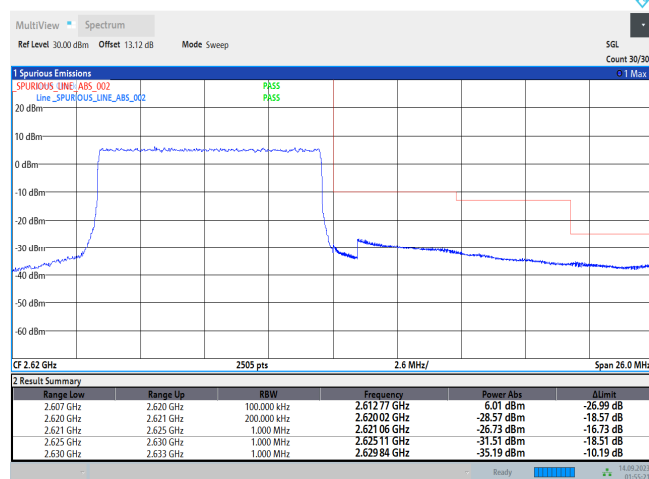
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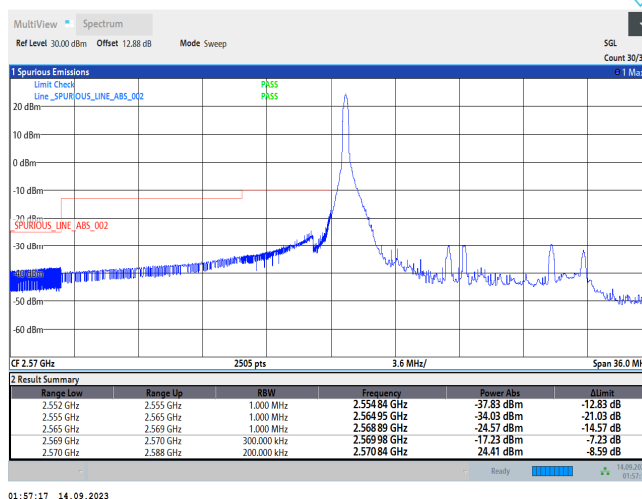


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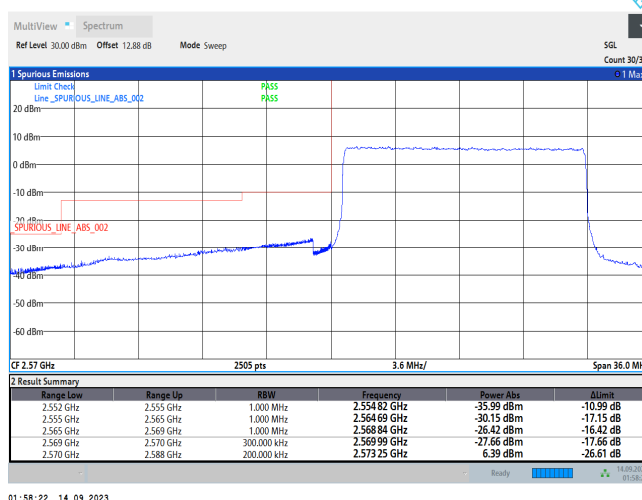
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Band38-15MHz-QPSK-37825-1RB#0



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

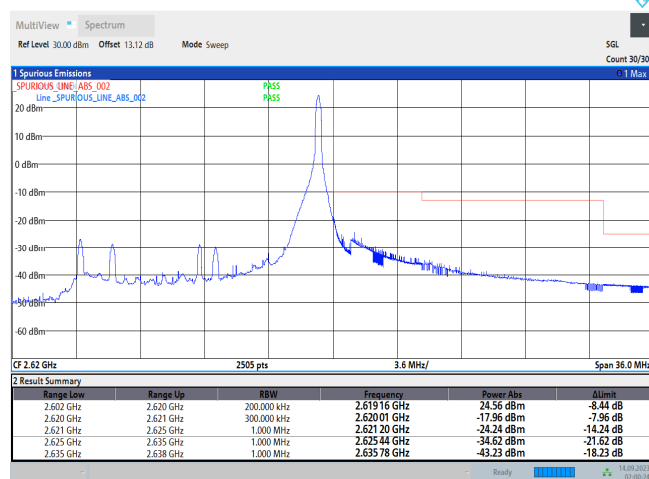


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Band38-15MHz-QPSK-38175-1RB#74

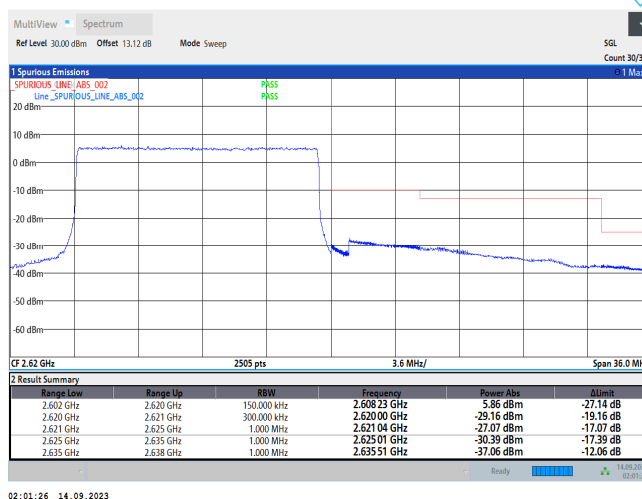


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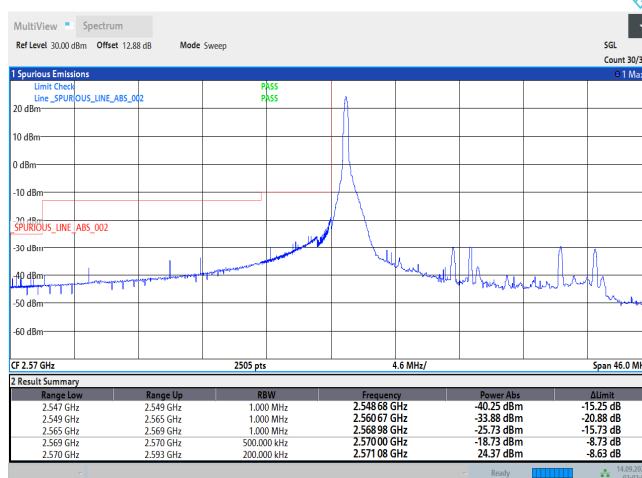
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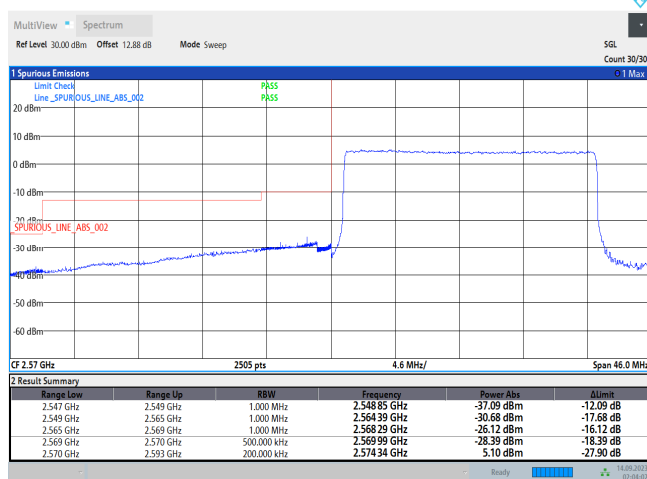
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Band38-20MHz-QPSK-37850-100RB#0



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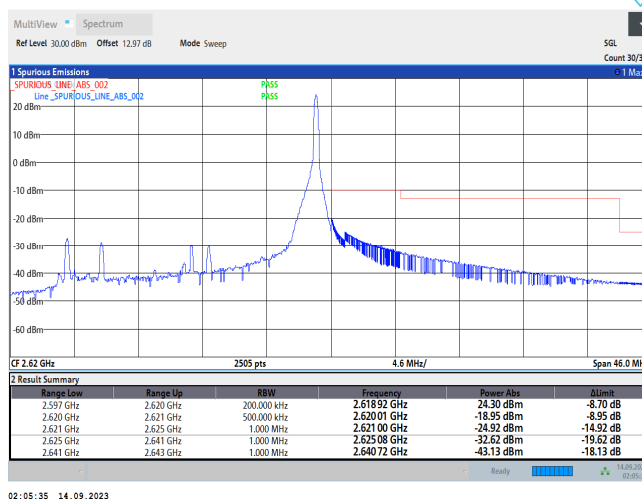
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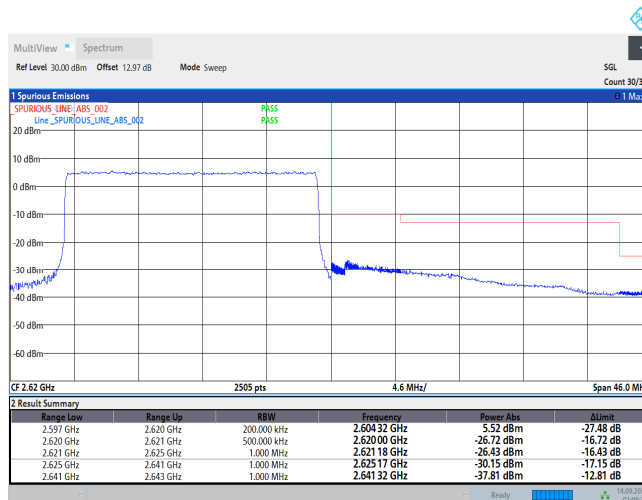
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Band38-20MHz-QPSK-38150-1RB#99



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



02:06:39 14.09.2023



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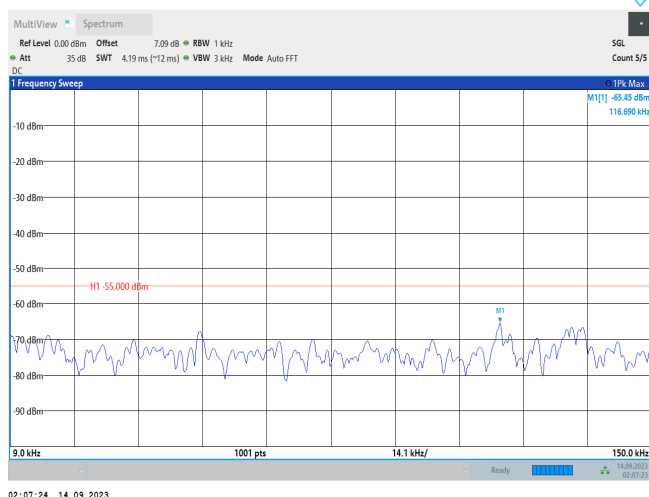
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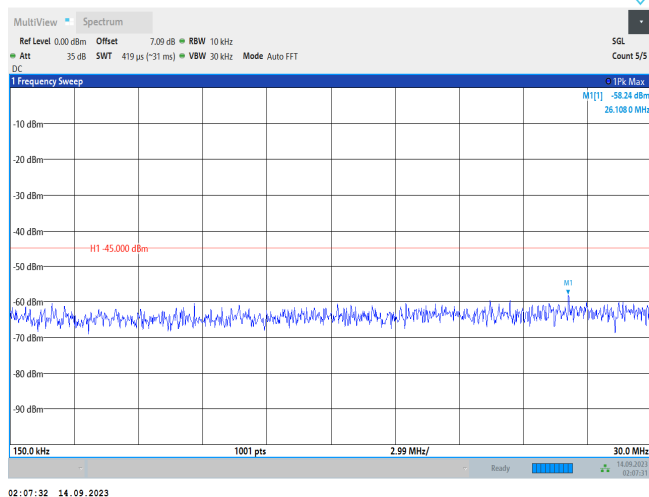
Conducted Spurious Emission

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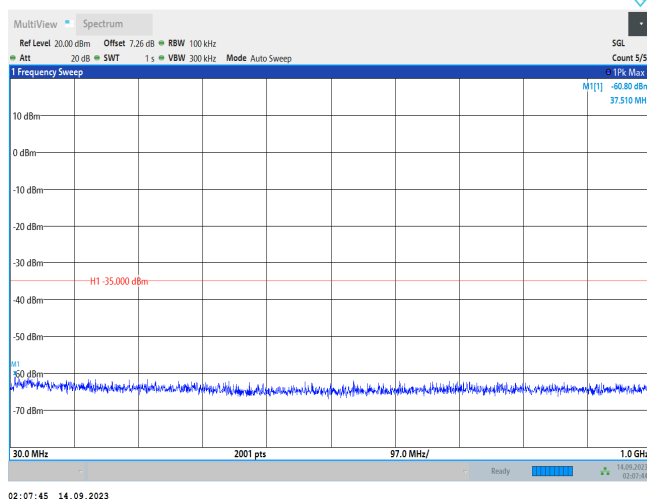
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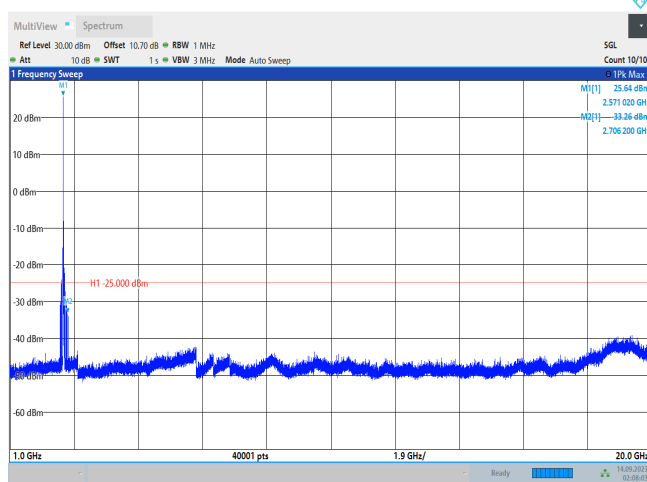
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



02:07:45 14.09.2023

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



02:08:03 14.09.2023



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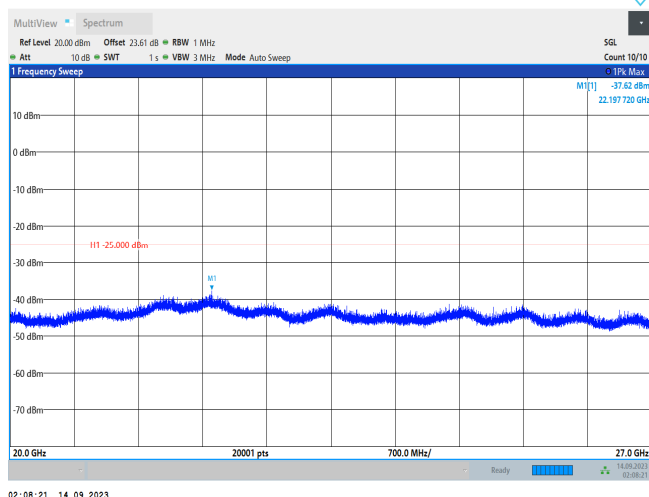


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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



02:08:21 14.09.2023



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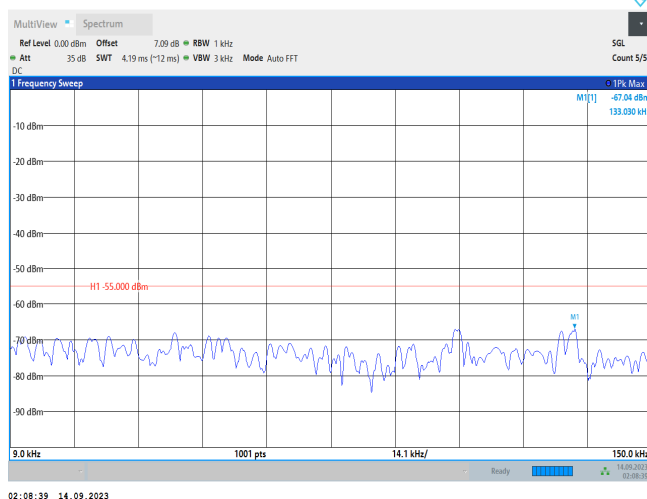
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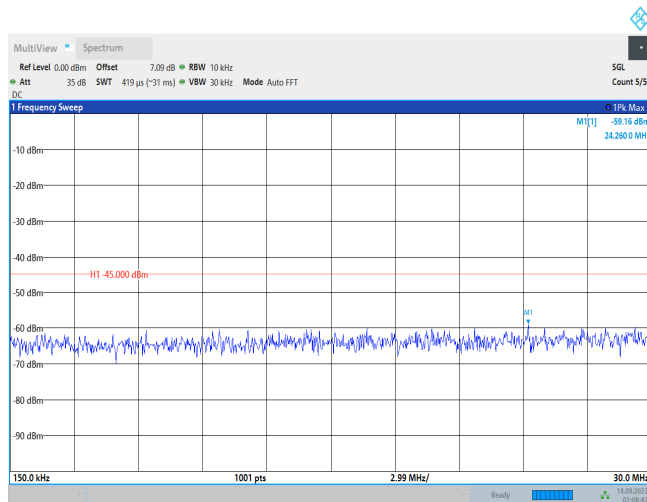
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Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



02:08:39 14.09.2023

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



02:08:47 14.09.2023



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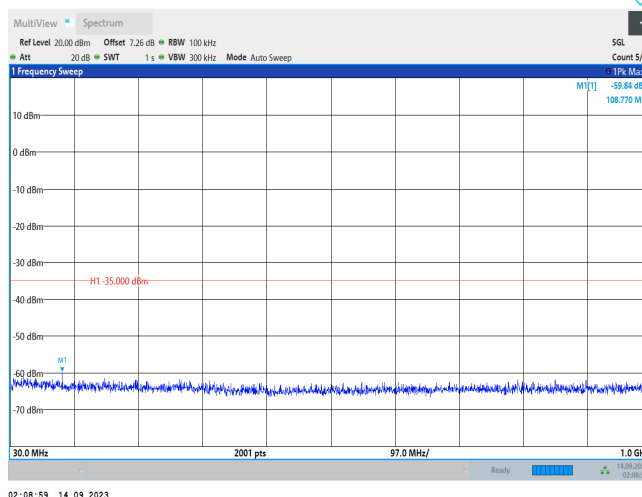
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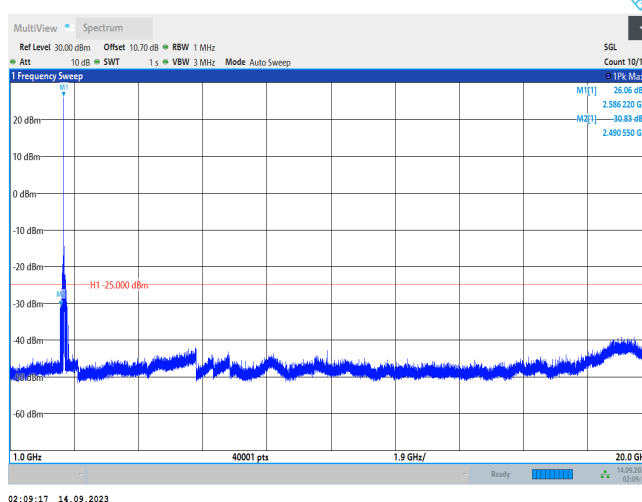
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Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



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

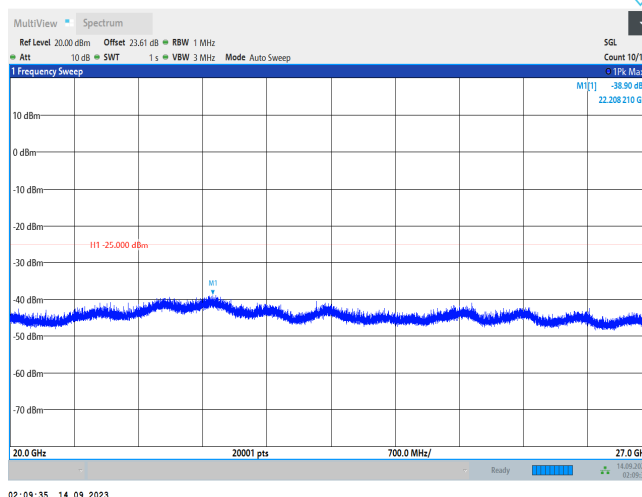


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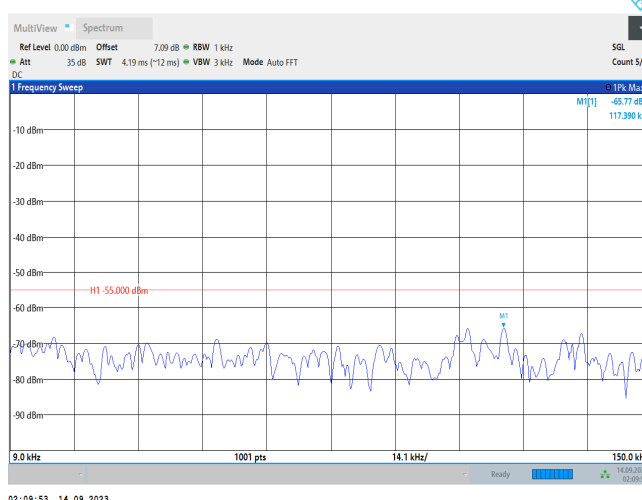
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Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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

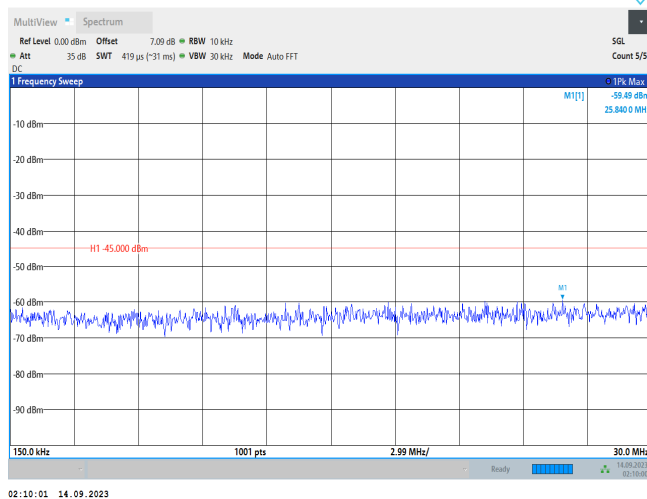


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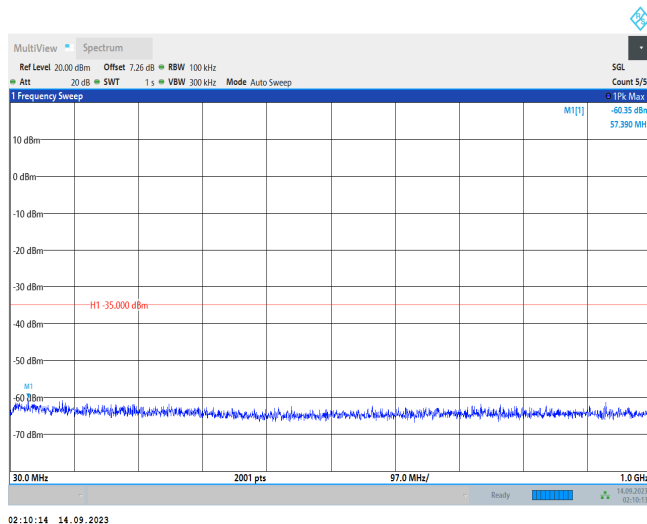
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Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



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

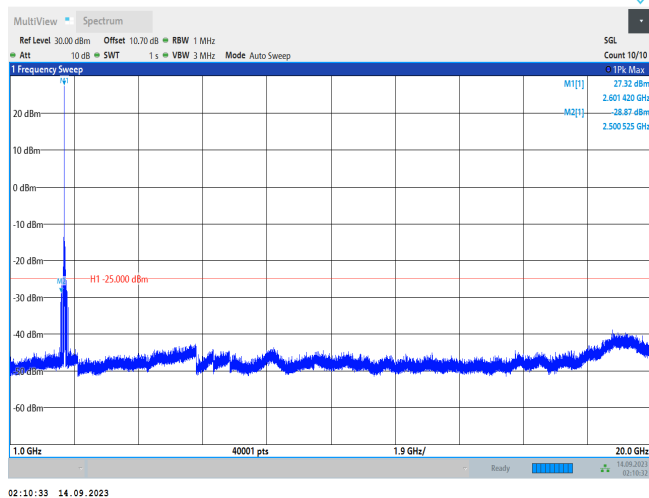


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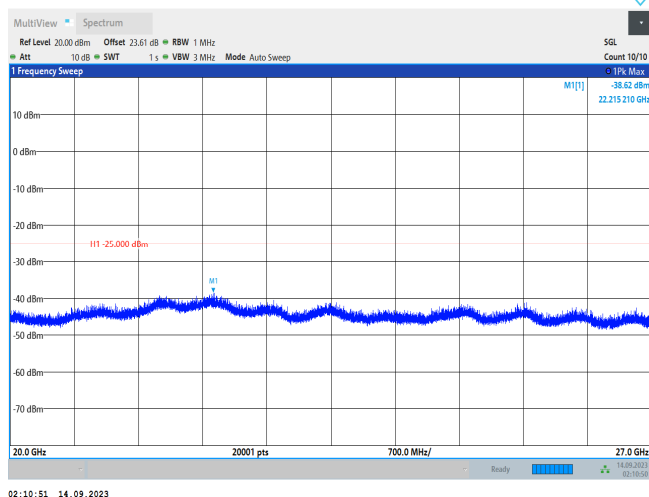
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Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_38 ANT 3

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2973.5	37.18	-17.18	28.44	-46.82	-25.00	21.82	Horizontal
2	3929	47.83	-44.19	29.82	-61.80	-25.00	36.80	Horizontal
3	5728.5	46.05	-41.22	32.50	-57.93	-25.00	32.93	Horizontal
4	7865	43.43	-37.63	36.71	-52.75	-25.00	27.75	Horizontal
5	10931.5	42.92	-37.29	40.17	-49.46	-25.00	24.46	Horizontal
6	16395	42.02	-34.85	38.79	-49.30	-25.00	24.30	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2990.5	37.40	-17.42	28.54	-46.74	-25.00	21.74	Vertical
2	3937	47.27	-44.19	29.85	-62.33	-25.00	37.33	Vertical
3	6003	45.69	-41.23	33.03	-57.77	-25.00	32.77	Vertical
4	8222	43.51	-37.11	36.39	-52.47	-25.00	27.47	Vertical
5	9920	42.66	-35.49	38.62	-49.47	-25.00	24.47	Vertical
6	16598.5	42.00	-35.34	39.50	-49.10	-25.00	24.10	Vertical



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Test Band = LTE_38 ANT 3
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998.5	37.29	-17.44	28.59	-46.82	-25.00	21.82	Horizontal
2	3926	47.19	-44.19	29.80	-62.46	-25.00	37.46	Horizontal
3	6003.5	45.65	-41.23	33.04	-57.80	-25.00	32.80	Horizontal
4	7931.5	43.79	-37.41	36.44	-52.44	-25.00	27.44	Horizontal
5	11029.5	42.87	-37.16	40.13	-49.42	-25.00	24.42	Horizontal
6	17987	41.91	-43.14	47.97	-48.52	-25.00	23.52	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998	37.38	-17.44	28.59	-46.73	-25.00	21.73	Vertical
2	4449	47.49	-43.19	30.10	-60.86	-25.00	35.86	Vertical
3	7423.5	44.23	-38.28	36.75	-52.56	-25.00	27.56	Vertical
4	9903	42.07	-35.04	38.60	-49.63	-25.00	24.63	Vertical
5	13564.5	43.30	-37.89	40.03	-49.82	-25.00	24.82	Vertical
6	17989.5	41.50	-43.12	48.01	-48.87	-25.00	23.87	Vertical



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Test Band = LTE_38 ANT 3
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3921.5	46.80	-44.19	29.79	-62.86	-25.00	37.86	Horizontal
2	5495.5	44.83	-41.86	32.38	-59.91	-25.00	34.91	Horizontal
3	7185.5	42.79	-38.75	36.54	-54.68	-25.00	29.68	Horizontal
4	8423.5	42.96	-36.87	36.45	-52.72	-25.00	27.72	Horizontal
5	11113	42.91	-37.80	40.20	-49.95	-25.00	24.95	Horizontal
6	16353.5	41.12	-35.08	38.66	-50.56	-25.00	25.56	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3940.5	46.74	-44.19	29.86	-62.85	-25.00	37.85	Vertical
2	5598.5	45.07	-41.45	32.59	-59.05	-25.00	34.05	Vertical
3	7417.5	43.70	-38.28	36.74	-53.10	-25.00	28.10	Vertical
4	9887.5	41.29	-35.06	38.50	-50.53	-25.00	25.53	Vertical
5	13574.5	41.85	-37.88	40.05	-51.24	-25.00	26.24	Vertical
6	16386	41.09	-34.90	38.76	-50.31	-25.00	25.31	Vertical



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Test Band = LTE_38 ANT 4

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.45	-17.44	28.60	-46.65	-25.00	21.65	Horizontal
2	3916.5	47.31	-44.20	29.77	-62.38	-25.00	37.38	Horizontal
3	6324.5	44.14	-40.76	33.70	-58.18	-25.00	33.18	Horizontal
4	9878.5	41.34	-35.13	38.43	-50.62	-25.00	25.62	Horizontal
5	13572.5	41.70	-37.88	40.05	-51.39	-25.00	26.39	Horizontal
6	16358.5	41.09	-35.05	38.68	-50.54	-25.00	25.54	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2993.5	37.35	-17.43	28.56	-46.78	-25.00	21.78	Vertical
2	3925.5	46.33	-44.19	29.80	-63.32	-25.00	38.32	Vertical
3	5668	45.27	-41.24	32.50	-58.73	-25.00	33.73	Vertical
4	8393	42.36	-36.99	36.47	-53.42	-25.00	28.42	Vertical
5	11121.5	42.87	-37.94	40.20	-50.13	-25.00	25.13	Vertical
6	16394.5	40.98	-34.85	38.78	-50.35	-25.00	25.35	Vertical



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Test Band = LTE_38 ANT 4
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2990	37.41	-17.42	28.54	-46.73	-25.00	21.73	Horizontal
2	3924.5	46.95	-44.19	29.80	-62.70	-25.00	37.70	Horizontal
3	5715	45.14	-41.18	32.50	-58.80	-25.00	33.80	Horizontal
4	7417	43.38	-38.28	36.73	-53.43	-25.00	28.43	Horizontal
5	11101.5	42.78	-37.61	40.20	-49.89	-25.00	24.89	Horizontal
6	16357.5	41.14	-35.05	38.67	-50.50	-25.00	25.50	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2990.5	37.48	-17.42	28.54	-46.66	-25.00	21.66	Vertical
2	4321	46.55	-43.42	29.67	-62.46	-25.00	37.46	Vertical
3	7396.5	43.39	-38.30	36.69	-53.48	-25.00	28.48	Vertical
4	9891.5	41.45	-35.03	38.53	-50.31	-25.00	25.31	Vertical
5	13560.5	42.01	-37.90	40.02	-51.13	-25.00	26.13	Vertical
6	16355.5	41.33	-35.06	38.67	-50.32	-25.00	25.32	Vertical



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Test Band = LTE_38 ANT 4
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2983.5	37.35	-17.34	28.50	-46.75	-25.00	21.75	Horizontal
2	4201.5	46.58	-43.55	29.61	-62.62	-25.00	37.62	Horizontal
3	7405	43.39	-38.28	36.71	-53.44	-25.00	28.44	Horizontal
4	9887	41.73	-35.06	38.50	-50.09	-25.00	25.09	Horizontal
5	13649	42.11	-37.92	40.15	-50.92	-25.00	25.92	Horizontal
6	17994	39.75	-43.09	48.09	-50.51	-25.00	25.51	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2985.5	37.50	-17.37	28.51	-46.62	-25.00	21.62	Vertical
2	4042.5	47.02	-44.21	29.63	-62.82	-25.00	37.82	Vertical
3	5635.5	45.37	-41.33	32.53	-58.69	-25.00	33.69	Vertical
4	7898	42.88	-37.49	36.51	-53.36	-25.00	28.36	Vertical
5	11098	42.37	-37.58	40.20	-50.27	-25.00	25.27	Vertical
6	17987.5	40.05	-43.14	47.98	-50.37	-25.00	25.37	Vertical



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Test Band = LTE_38 ANT 5

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4698	46.19	-42.93	30.58	-61.42	-25.00	36.42	Horizontal
2	6870	44.49	-39.29	35.52	-54.54	-25.00	29.54	Horizontal
3	9116	43.01	-36.07	37.03	-51.29	-25.00	26.29	Horizontal
4	10961	42.91	-37.16	40.14	-49.37	-25.00	24.37	Horizontal
5	13558	43.56	-37.90	40.02	-49.58	-25.00	24.58	Horizontal
6	16592	41.98	-35.36	39.48	-49.16	-25.00	24.16	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3949	47.11	-44.19	29.90	-62.44	-25.00	37.44	Vertical
2	5820	45.91	-41.37	32.48	-58.24	-25.00	33.24	Vertical
3	7904.5	43.58	-37.47	36.49	-52.66	-25.00	27.66	Vertical
4	9903.5	42.13	-35.05	38.60	-49.58	-25.00	24.58	Vertical
5	10961.5	42.90	-37.15	40.14	-49.37	-25.00	24.37	Vertical
6	17990	41.17	-43.12	48.02	-49.19	-25.00	24.19	Vertical



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Test Band = LTE_38 ANT 5
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3942	46.81	-44.19	29.87	-62.77	-25.00	37.77	Horizontal
2	5604.5	45.91	-41.43	32.59	-58.19	-25.00	33.19	Horizontal
3	7510.5	43.89	-38.34	36.80	-52.91	-25.00	27.91	Horizontal
4	9885	42.04	-35.08	38.48	-49.82	-25.00	24.82	Horizontal
5	13542.5	43.25	-37.93	39.99	-49.95	-25.00	24.95	Horizontal
6	16395	42.10	-34.85	38.79	-49.22	-25.00	24.22	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3956.5	47.22	-44.18	29.89	-62.33	-25.00	37.33	Vertical
2	5491	45.43	-41.86	32.36	-59.33	-25.00	34.33	Vertical
3	8979	42.40	-36.09	36.78	-52.17	-25.00	27.17	Vertical
4	10973.5	42.73	-37.10	40.13	-49.50	-25.00	24.50	Vertical
5	13571.5	42.78	-37.88	40.04	-50.32	-25.00	25.32	Vertical
6	17992.5	41.00	-43.10	48.07	-49.29	-25.00	24.29	Vertical



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Test Band = LTE_38 ANT 5
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3938	46.82	-44.19	29.85	-62.78	-25.00	37.78	Horizontal
2	6004.5	45.34	-41.22	33.05	-58.09	-25.00	33.09	Horizontal
3	7433.5	43.94	-38.28	36.77	-52.83	-25.00	27.83	Horizontal
4	9883	42.27	-35.09	38.46	-49.62	-25.00	24.62	Horizontal
5	13567.5	43.22	-37.89	40.04	-49.89	-25.00	24.89	Horizontal
6	17995	40.97	-43.08	48.11	-49.26	-25.00	24.26	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3928.5	46.92	-44.19	29.81	-62.72	-25.00	37.72	Vertical
2	5698	45.32	-41.15	32.50	-58.59	-25.00	33.59	Vertical
3	8015	43.13	-37.29	36.43	-52.99	-25.00	27.99	Vertical
4	9916	42.19	-35.38	38.62	-49.83	-25.00	24.83	Vertical
5	13553	42.91	-37.91	40.01	-50.25	-25.00	25.25	Vertical
6	17975	41.43	-43.24	47.75	-49.32	-25.00	24.32	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-4.70	-0.001811	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	2.90	0.001118	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-1.60	-0.000617	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-1.20	-0.000462	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-1.70	-0.000655	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	8.10	0.003121	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	8.90	0.003430	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	1.00	0.000385	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	2.20	0.000848	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	2.30	0.000886	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	4.80	0.001850	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-0.40	-0.000154	PASS

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