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# Appendix B.13

## LTE Band 38



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## Effective (Isotropic) Radiated Power Output Data

### Test Result ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	26.35	28.75	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	26.33	28.73	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	26.28	28.68	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	25.35	27.75	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	26.45	28.85	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	26.44	28.84	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	26.29	28.69	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	25.39	27.79	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	26.52	28.92	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	26.36	28.76	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	26.18	28.58	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	25.28	27.68	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	25.48	27.88	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	25.46	27.86	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	25.45	27.85	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	24.39	26.79	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	25.71	28.11	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	25.57	27.97	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	25.47	27.87	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	24.42	26.82	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	25.47	27.87	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	25.50	27.9	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	25.35	27.75	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	24.29	26.69	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	24.74	27.14	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	24.73	27.13	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	24.61	27.01	33.00	PASS



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Band38	5MHz	64QAM	37775	25RB#0	23.37	25.77	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	24.66	27.06	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	24.75	27.15	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	24.74	27.14	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	23.44	25.84	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	24.54	26.94	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	24.62	27.02	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	24.59	26.99	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	23.31	25.71	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#0	21.54	23.94	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#12	21.53	23.93	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#24	21.43	23.83	33.00	PASS
Band38	5MHz	256QAM	37775	25RB#0	21.43	23.83	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#0	21.45	23.85	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#12	21.49	23.89	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#24	21.48	23.88	33.00	PASS
Band38	5MHz	256QAM	38000	25RB#0	21.43	23.83	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#0	21.49	23.89	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#12	21.52	23.92	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#24	21.40	23.8	33.00	PASS
Band38	5MHz	256QAM	38225	25RB#0	21.33	23.73	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	26.31	28.71	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	26.32	28.72	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	26.18	28.58	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	25.37	27.77	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	26.45	28.85	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	26.31	28.71	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	26.31	28.71	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	25.41	27.81	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	26.56	28.96	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	26.17	28.57	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	26.16	28.56	33.00	PASS



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Band38	10MHz	QPSK	38200	50RB#0	25.27	27.67	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	25.41	27.81	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	25.41	27.81	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	25.34	27.74	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	24.38	26.78	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	25.55	27.95	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	25.43	27.83	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	25.41	27.81	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	24.39	26.79	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	25.32	27.72	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	25.41	27.81	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	25.36	27.76	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	24.31	26.71	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	24.61	27.01	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	24.71	27.11	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	24.43	26.83	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	23.39	25.79	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	24.64	27.04	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	24.73	27.13	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	24.61	27.01	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	23.40	25.8	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	24.53	26.93	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	24.63	27.03	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	24.54	26.94	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	23.31	25.71	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#0	21.43	23.83	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#24	21.48	23.88	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#49	21.42	23.82	33.00	PASS
Band38	10MHz	256QAM	37800	50RB#0	21.39	23.79	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#0	21.52	23.92	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#24	21.56	23.96	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#49	21.42	23.82	33.00	PASS



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Band38	10MHz	256QAM	38000	50RB#0	21.42	23.82	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#0	21.50	23.9	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#24	21.41	23.81	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#49	21.28	23.68	33.00	PASS
Band38	10MHz	256QAM	38200	50RB#0	21.32	23.72	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	26.23	28.63	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	26.27	28.67	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	26.32	28.72	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	25.27	27.67	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	26.56	28.96	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	26.30	28.7	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	26.28	28.68	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	25.25	27.65	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	26.65	29.05	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	26.19	28.59	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	26.12	28.52	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	25.24	27.64	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	25.31	27.71	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	25.41	27.81	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	25.33	27.73	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	24.32	26.72	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	25.41	27.81	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	25.45	27.85	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	25.32	27.72	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	24.28	26.68	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	25.37	27.77	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	25.32	27.72	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	25.28	27.68	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	24.25	26.65	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	24.53	26.93	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	24.61	27.01	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	24.57	26.97	33.00	PASS



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Band38	15MHz	64QAM	38000	1RB#0	24.58	26.98	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	24.66	27.06	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	24.66	27.06	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	23.29	25.69	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	24.66	27.06	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	24.56	26.96	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	24.44	26.84	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	23.28	25.68	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#0	21.46	23.86	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#38	21.51	23.91	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#74	21.52	23.92	33.00	PASS
Band38	15MHz	256QAM	37825	75RB#0	21.37	23.77	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#0	21.37	23.77	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#38	21.52	23.92	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#74	21.40	23.8	33.00	PASS
Band38	15MHz	256QAM	38000	75RB#0	21.29	23.69	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#0	21.42	23.82	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#38	21.53	23.93	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#74	21.20	23.6	33.00	PASS
Band38	15MHz	256QAM	38175	75RB#0	21.36	23.76	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	26.23	28.63	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	26.31	28.71	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	26.34	28.74	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	25.28	27.68	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	26.53	28.93	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	26.26	28.66	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	26.22	28.62	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	25.23	27.63	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	26.65	29.05	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	26.32	28.72	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	26.11	28.51	33.00	PASS



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Band38	20MHz	QPSK	38150	100RB#0	25.32	27.72	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	25.37	27.77	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	25.51	27.91	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	25.36	27.76	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	24.30	26.7	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	25.49	27.89	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	25.37	27.77	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	25.33	27.73	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	24.27	26.67	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	25.42	27.82	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	25.52	27.92	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	25.28	27.68	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	24.31	26.71	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	24.64	27.04	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	24.76	27.16	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	24.57	26.97	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	23.32	25.72	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	24.56	26.96	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	24.72	27.12	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	24.55	26.95	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	23.28	25.68	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	24.68	27.08	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	24.58	26.98	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	24.65	27.05	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	23.36	25.76	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#0	21.33	23.73	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#49	21.49	23.89	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#99	21.36	23.76	33.00	PASS
Band38	20MHz	256QAM	37850	100RB#0	21.36	23.76	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#0	21.50	23.9	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#49	21.50	23.9	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#99	21.17	23.57	33.00	PASS



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Band38	20MHz	256QAM	38000	100RB#0	21.30	23.7	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#0	21.53	23.93	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#49	21.38	23.78	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#99	21.23	23.63	33.00	PASS
Band38	20MHz	256QAM	38150	100RB#0	21.36	23.76	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	11.08	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.44	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.50	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	11.28	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	11.32	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	11.32	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	11.28	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	11.38	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	11.26	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	11.38	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	11.38	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	11.36	13	PASS



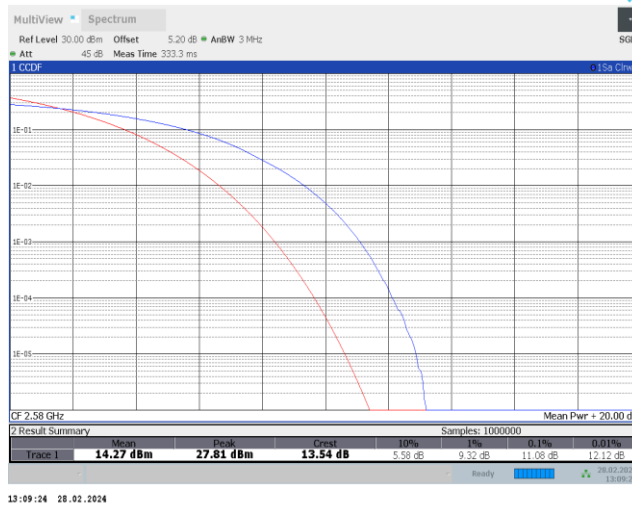
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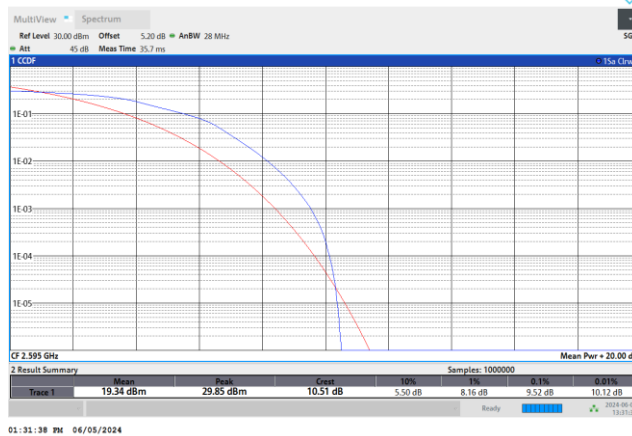
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Test Graphs

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



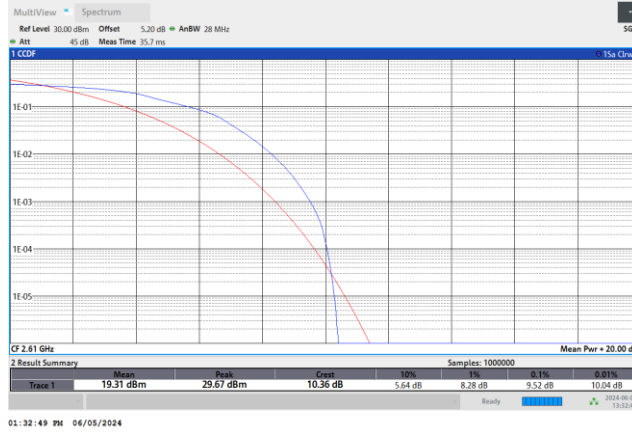
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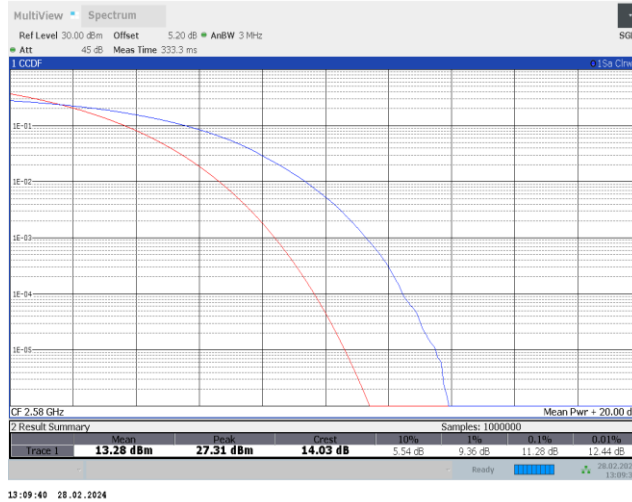
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Band38-20MHz-QPSK-38150-100RB#0



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



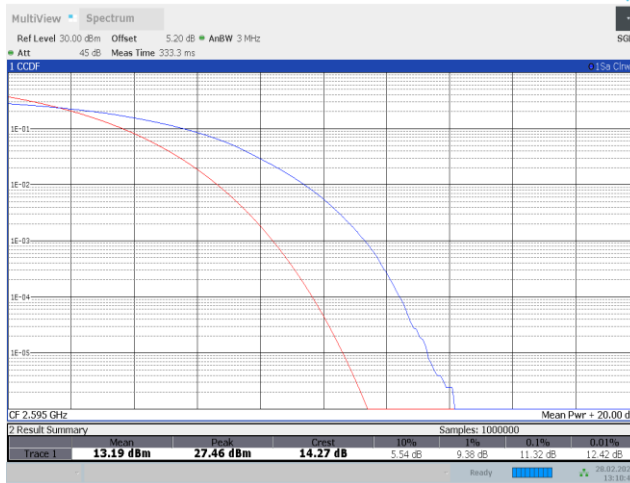
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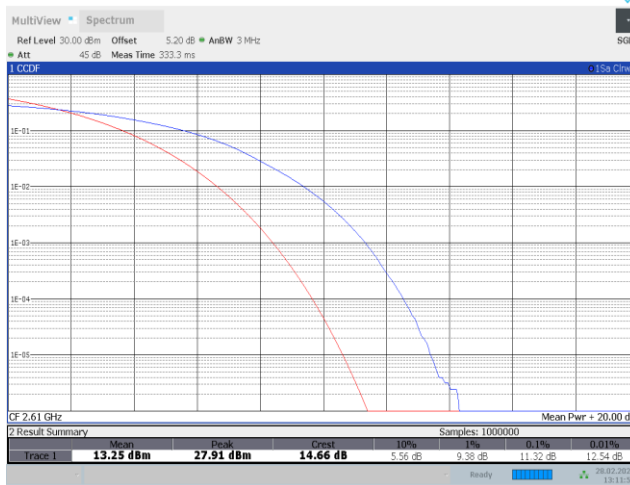
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Band38-20MHz-16QAM-38000-100RB#0



13:10:45 28.02.2024

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



13:11:51 28.02.2024

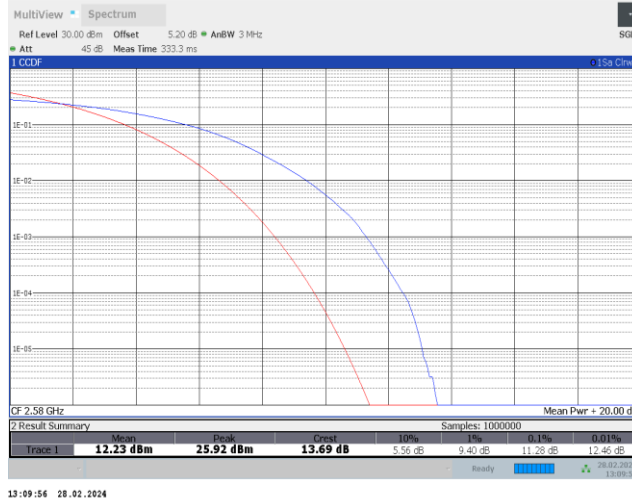


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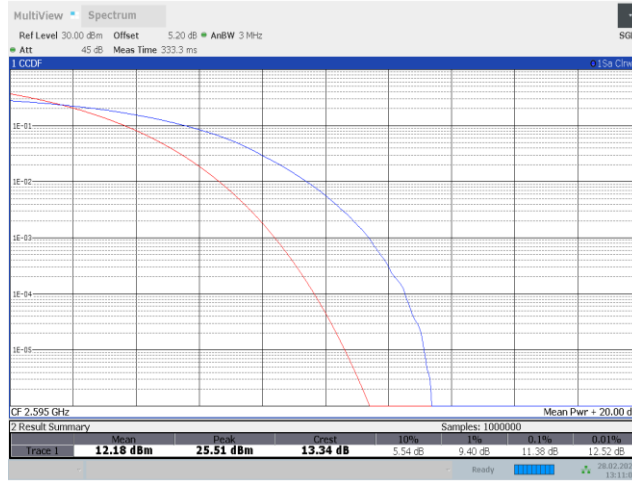


Band38-20MHz-64QAM-37850-100RB#0



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



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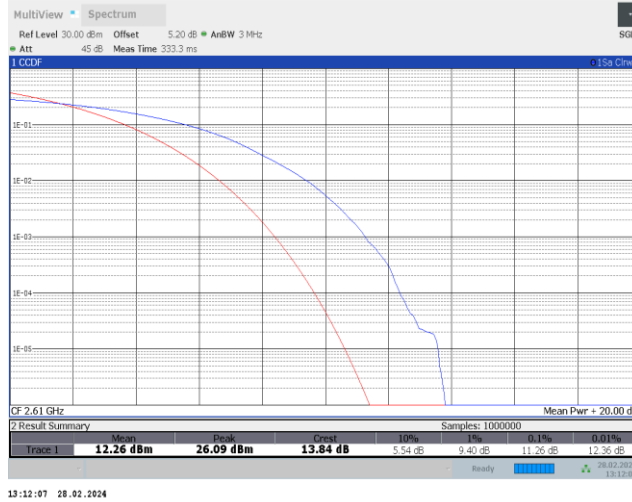


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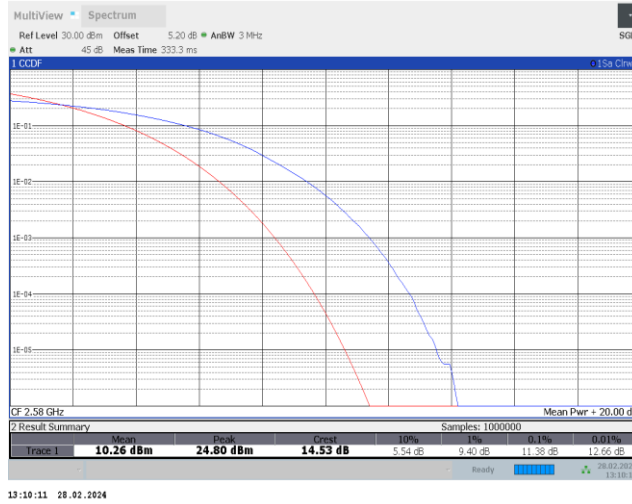
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Band38-20MHz-256QAM-37850-100RB#0

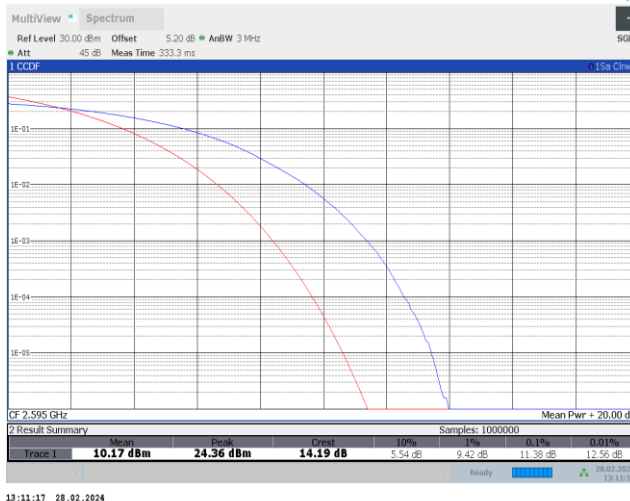


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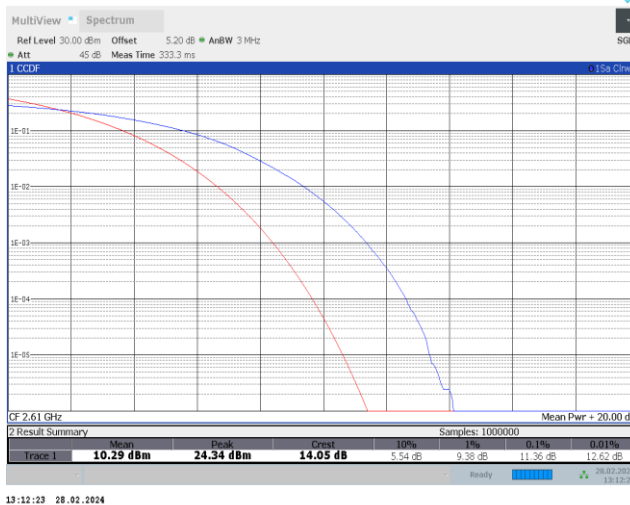
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Band38-20MHz-256QAM-38000-100RB#0



Band38-20MHz-256QAM-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	38000	25RB#0	4.47	4.88	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.46	4.95	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.454	4.75	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.461	4.82	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.938	9.70	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.963	9.68	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.934	9.60	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.905	9.62	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.454	14.40	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.409	14.64	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.432	15.33	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.451	14.58	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.9	19.32	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.936	19.08	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.824	19.08	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.931	19.28	PASS

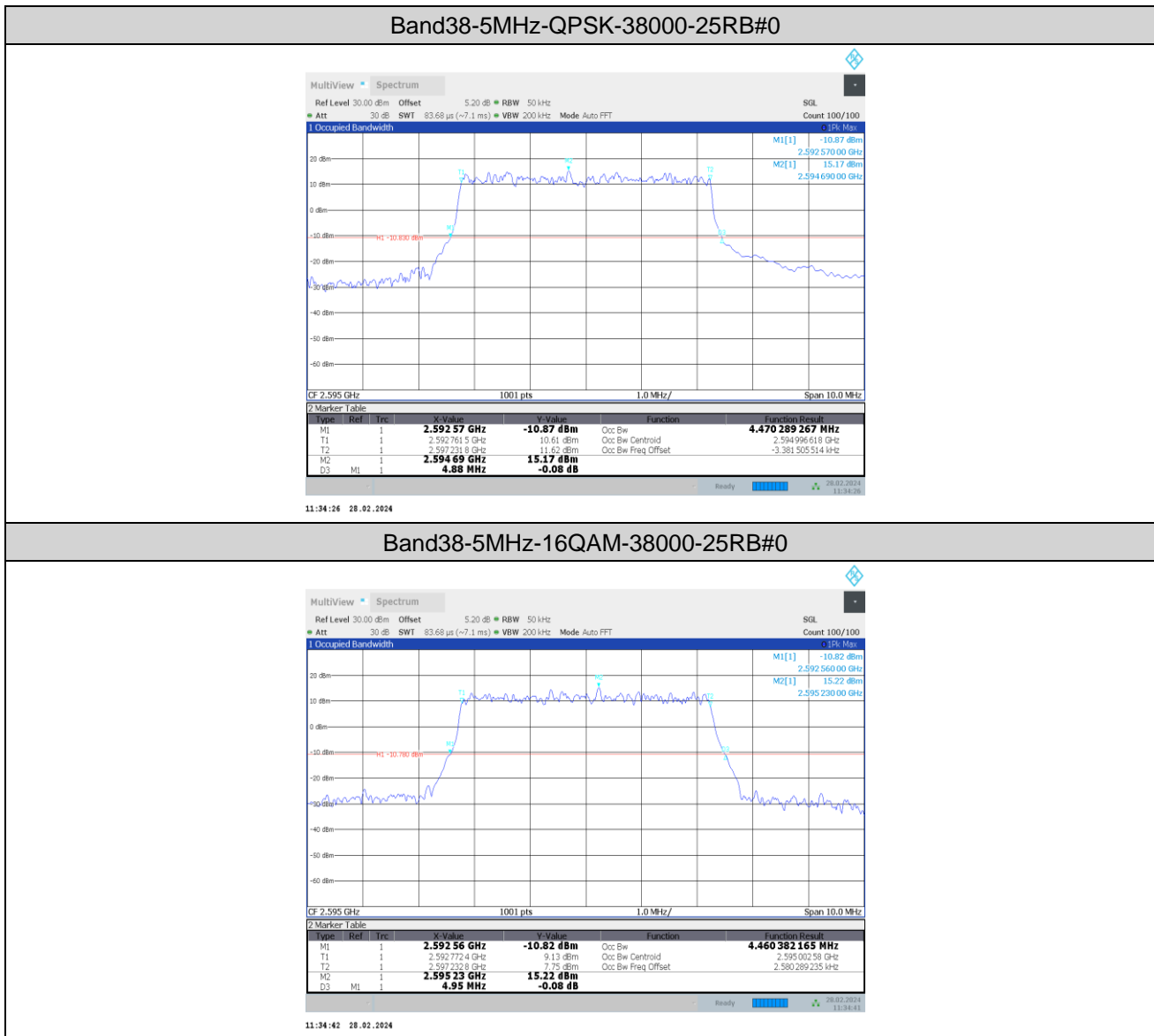


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Test Graphs

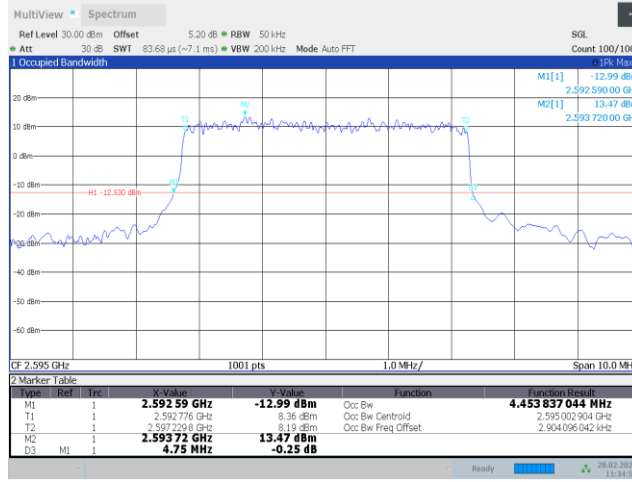


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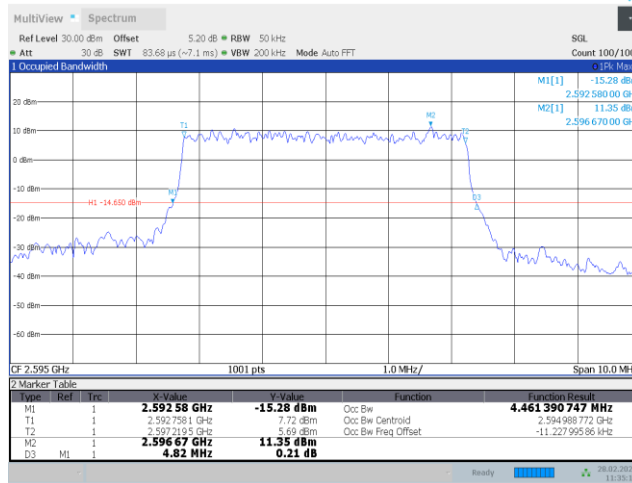
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Band38-5MHz-64QAM-38000-25RB#0



11:34:57 28.02.2024

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



11:35:12 28.02.2024



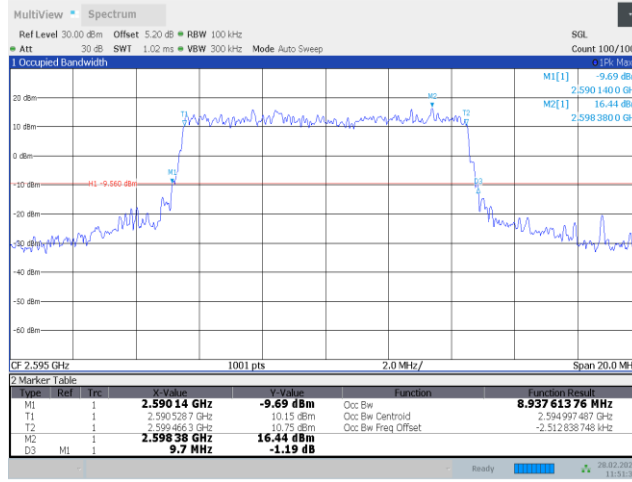
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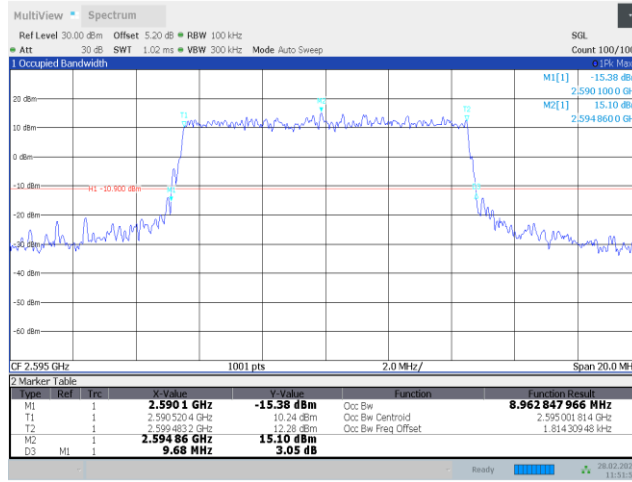
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Band38-10MHz-QPSK-38000-50RB#0



11:51:39 28.02.2024

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



11:51:55 28.02.2024



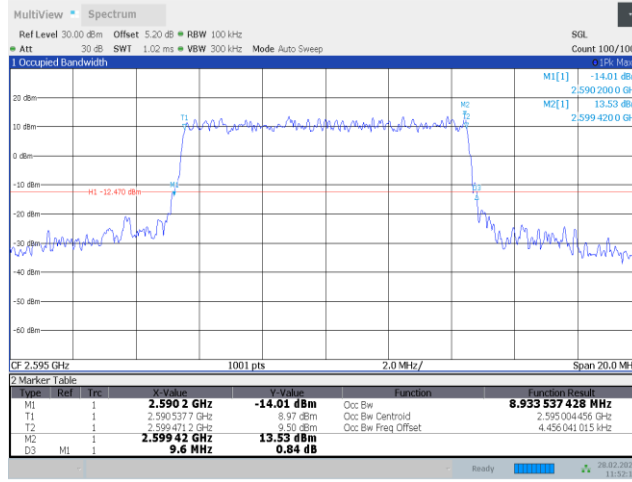
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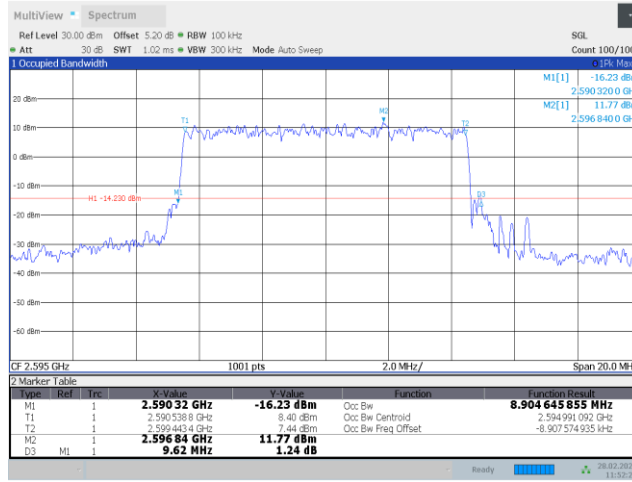
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Band38-10MHz-64QAM-38000-50RB#0



11:52:11 28.02.2024

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



11:52:27 28.02.2024



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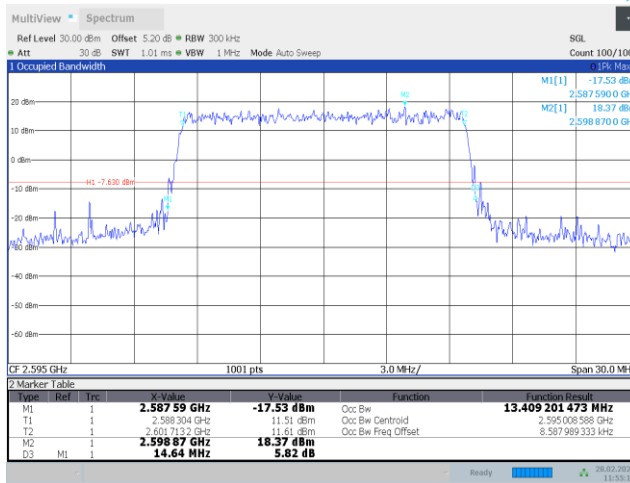


Band38-15MHz-QPSK-38000-75RB#0



11:54:57 28.02.2024

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



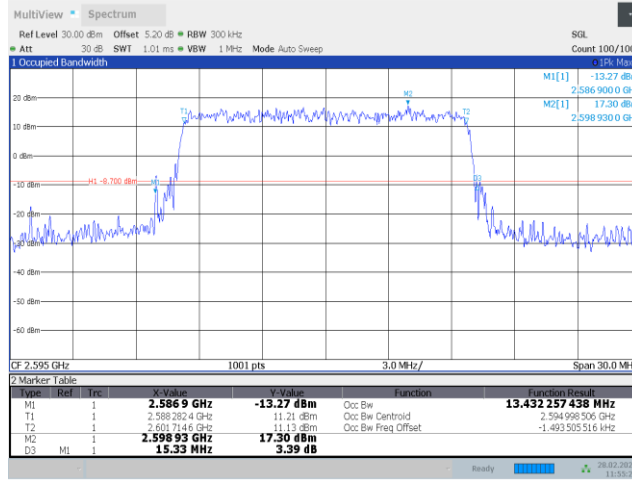
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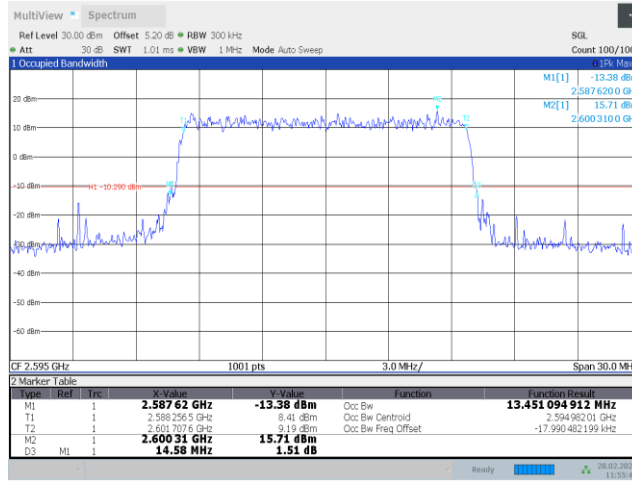
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Band38-15MHz-64QAM-38000-75RB#0



11:55:29 28.02.2024

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



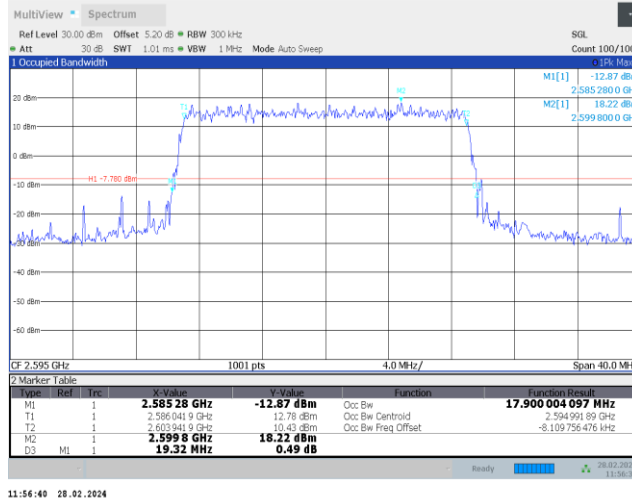
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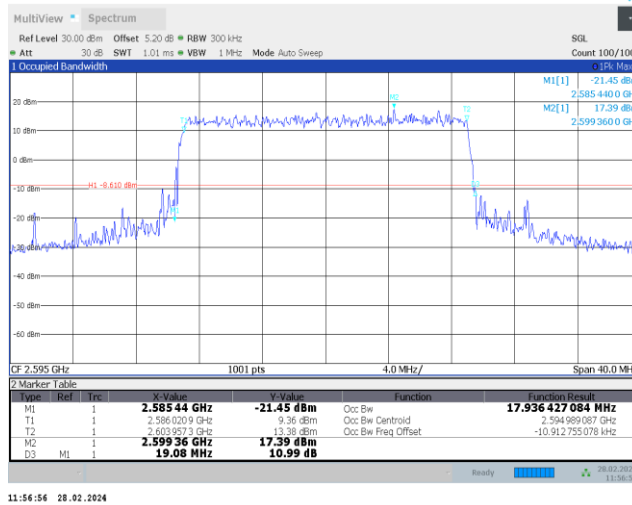
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Band38-20MHz-QPSK-38000-100RB#0



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

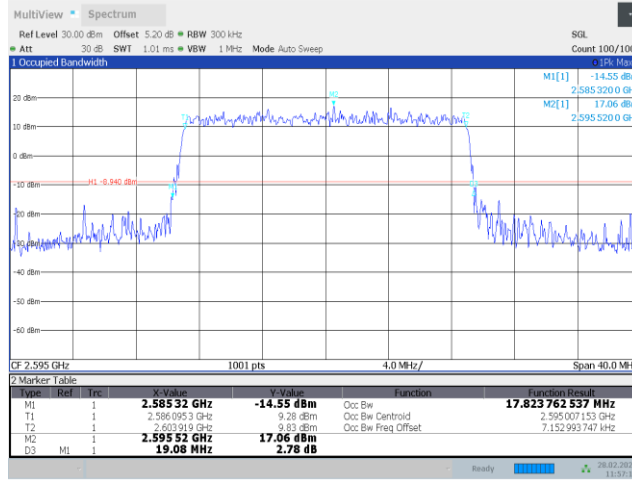


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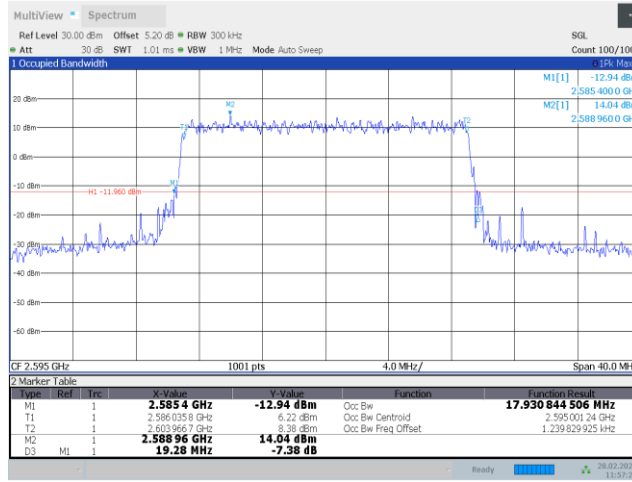
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Band38-20MHz-64QAM-38000-100RB#0



11:57:12 28.02.2024

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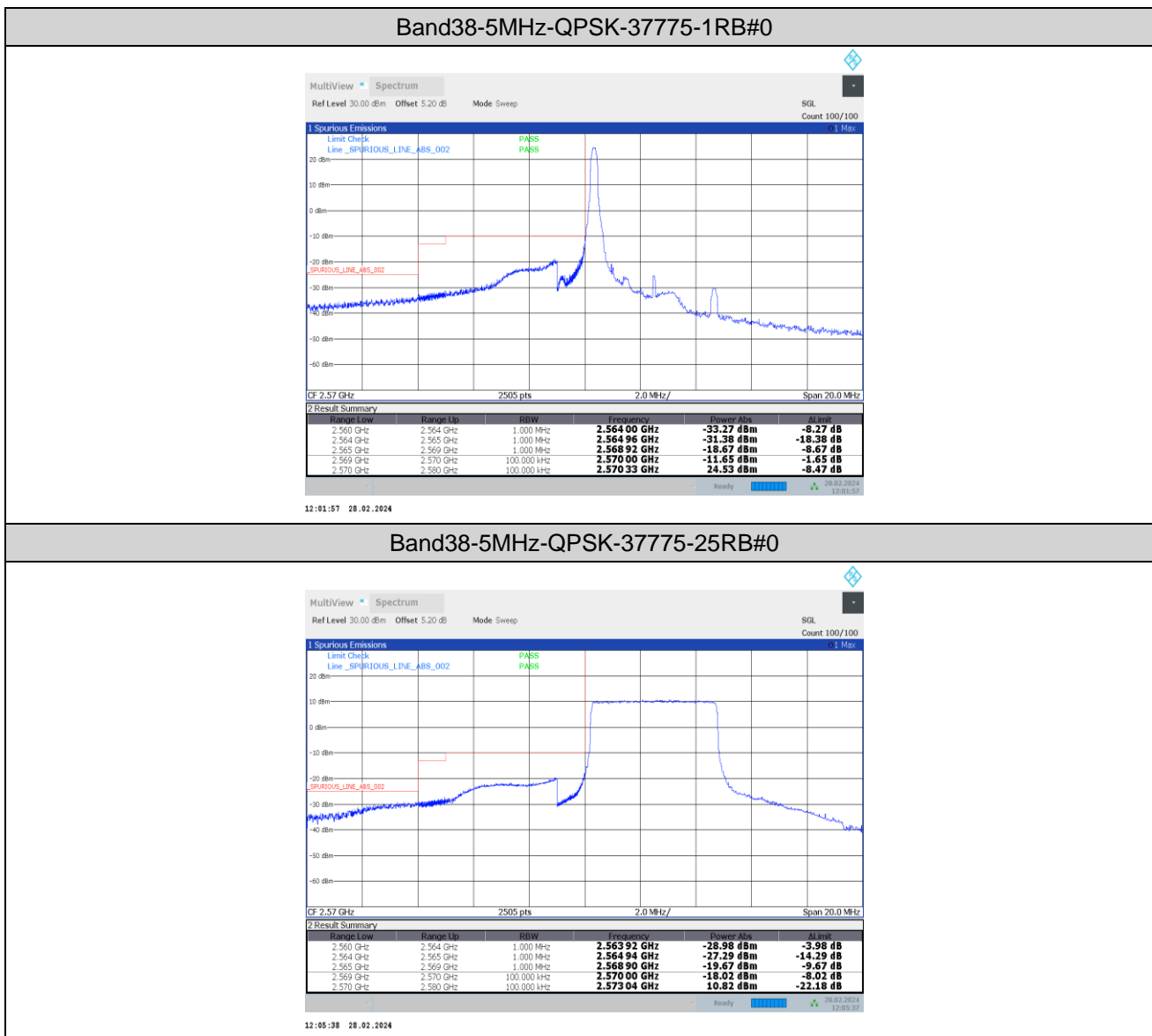
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## Band Edge

## Test Graphs



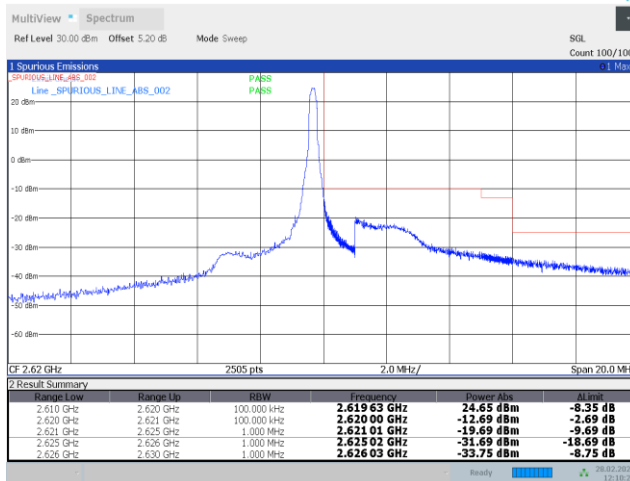
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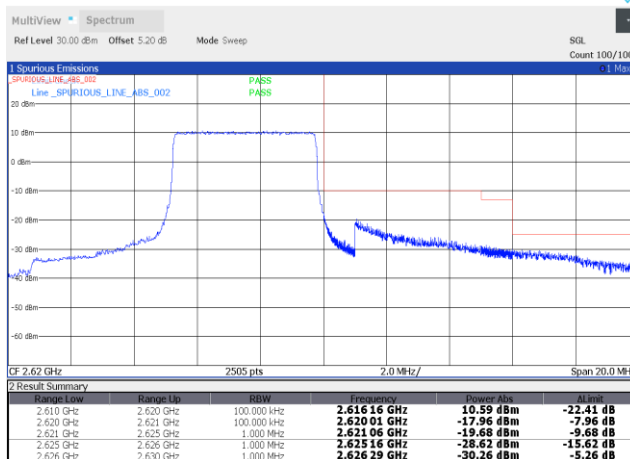


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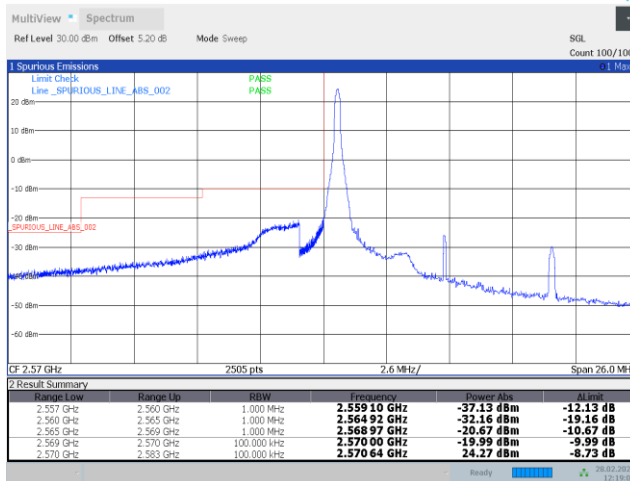
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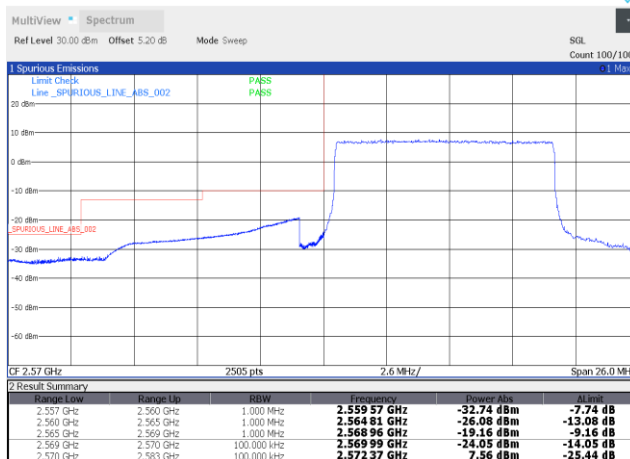
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Band38-10MHz-QPSK-37800-1RB#0



12:19:01 28.02.2024

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



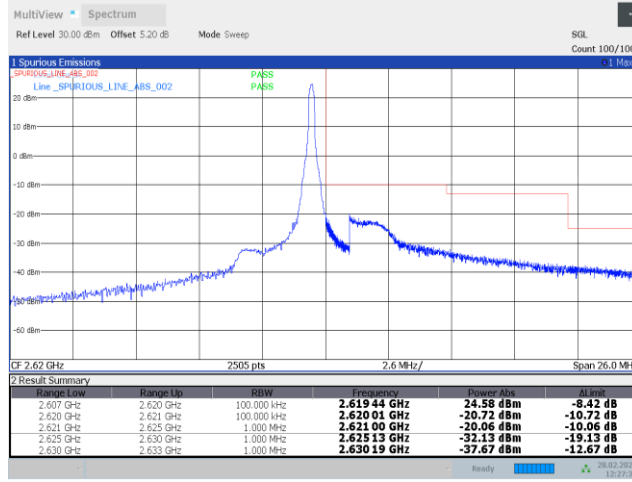
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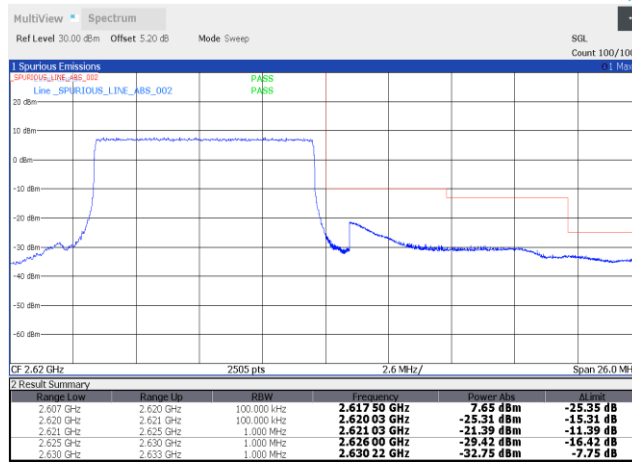
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Band38-10MHz-QPSK-38200-1RB#49



12:27:32 28.02.2024

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



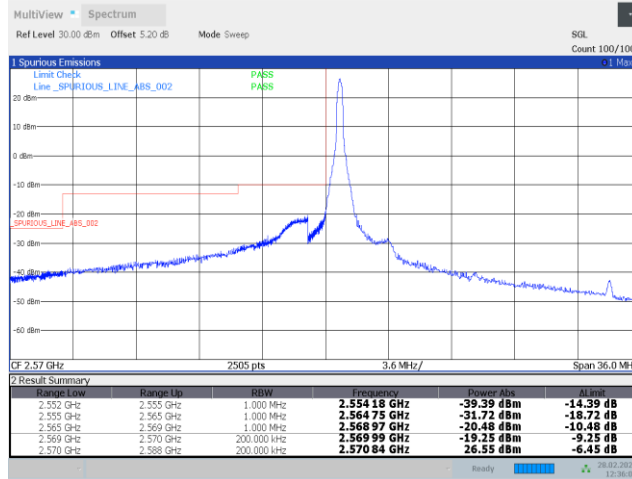
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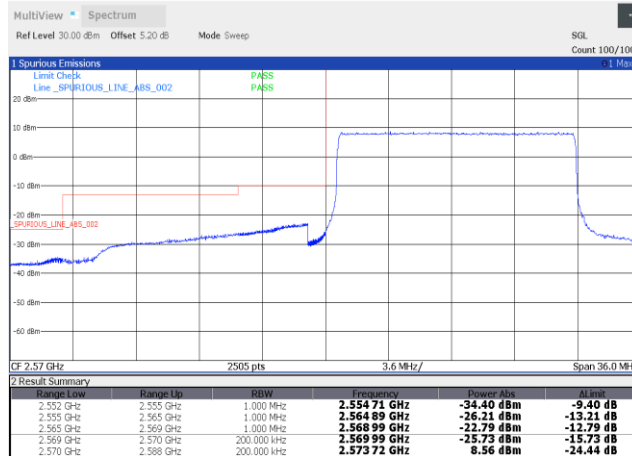
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Band38-15MHz-QPSK-37825-1RB#0



12:36:07 28.02.2024

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



12:39:48 28.02.2024



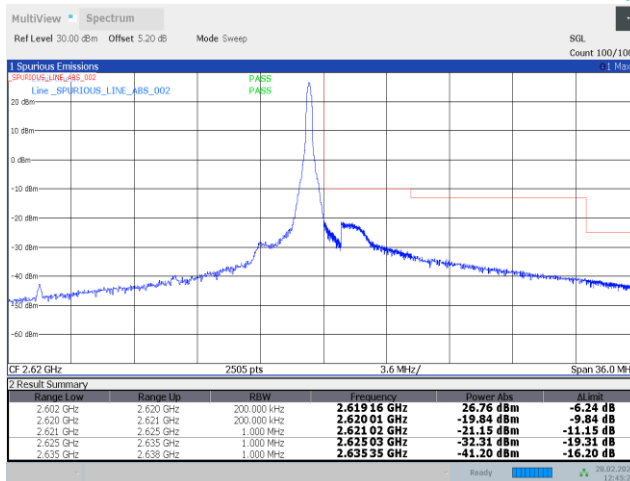
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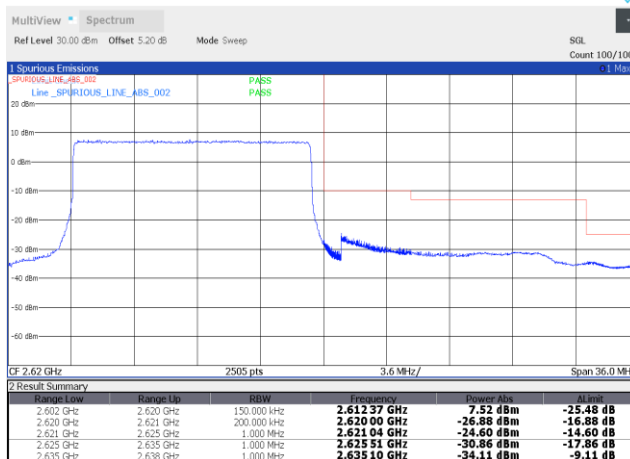
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Band38-15MHz-QPSK-38175-1RB#74



12:45:28 28.02.2024

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



12:49:09 28.02.2024

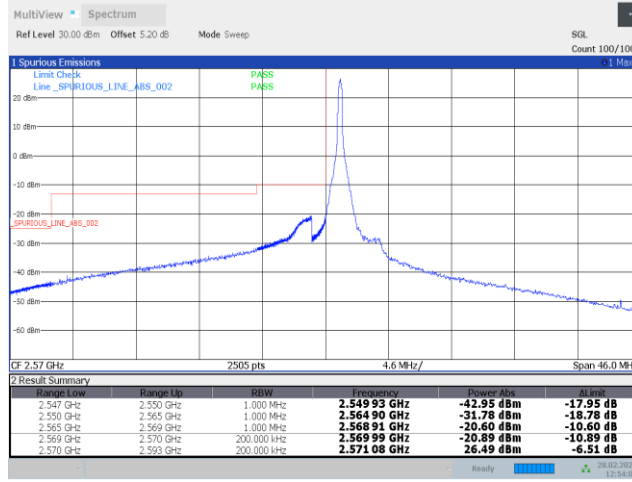


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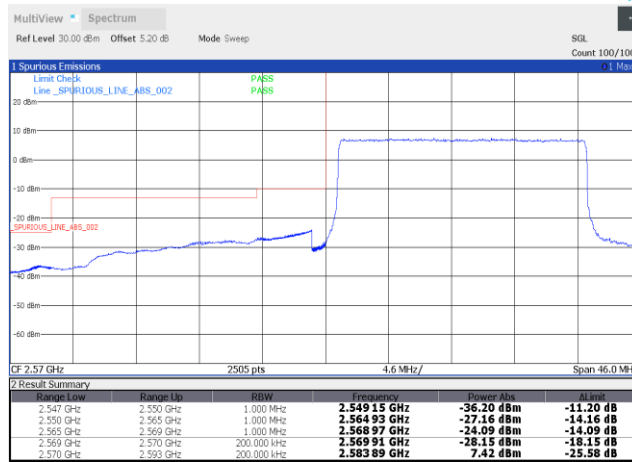


Band38-20MHz-QPSK-37850-1RB#0



12:54:04 28.02.2024

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



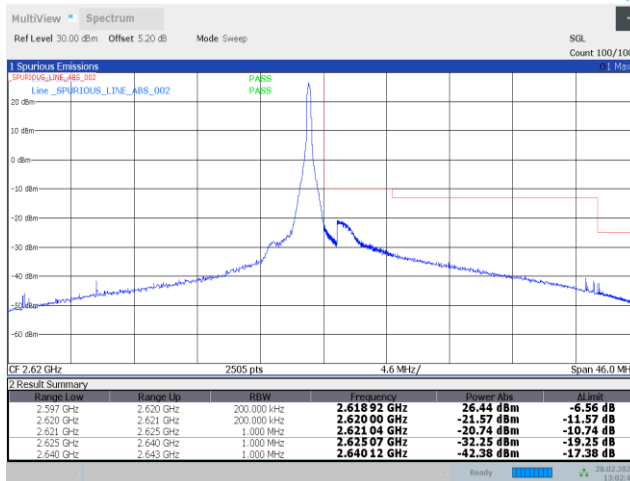
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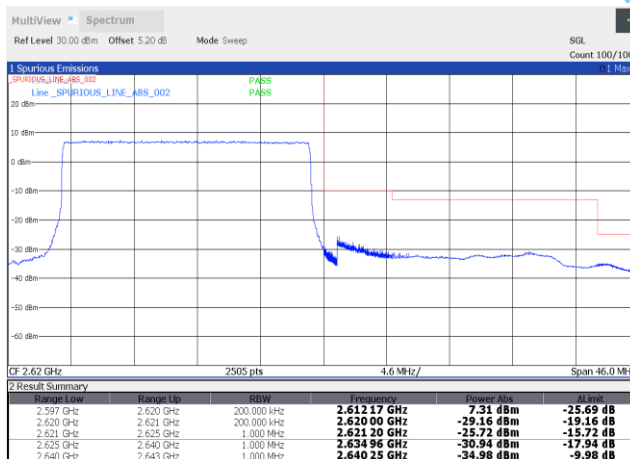
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Band38-20MHz-QPSK-38150-1RB#99



13:02:40 28.02.2024

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



13:06:21 28.02.2024



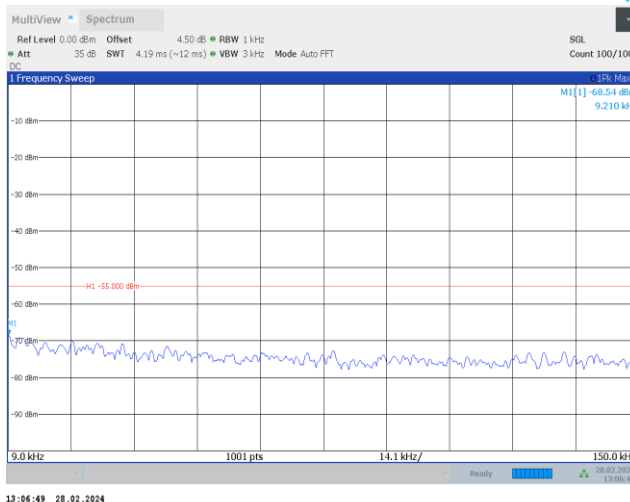
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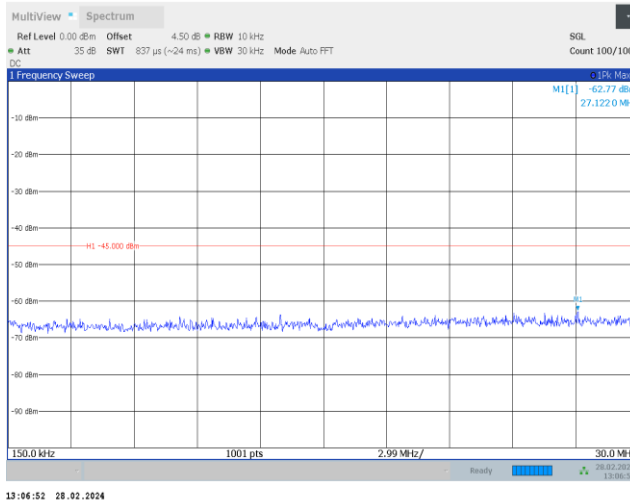
## Conducted Spurious Emission

### Test Graphs

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



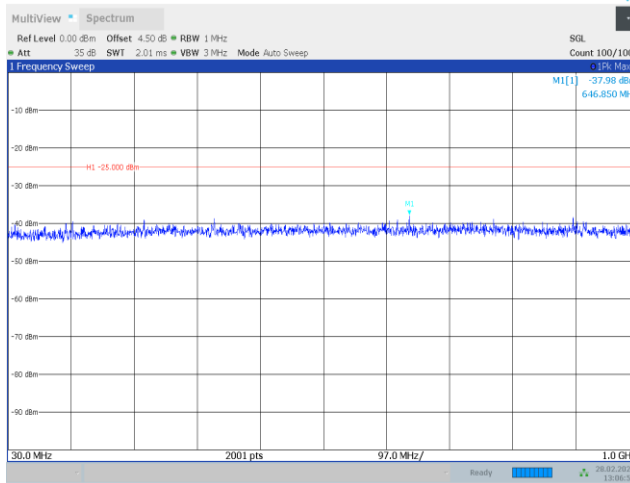
Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



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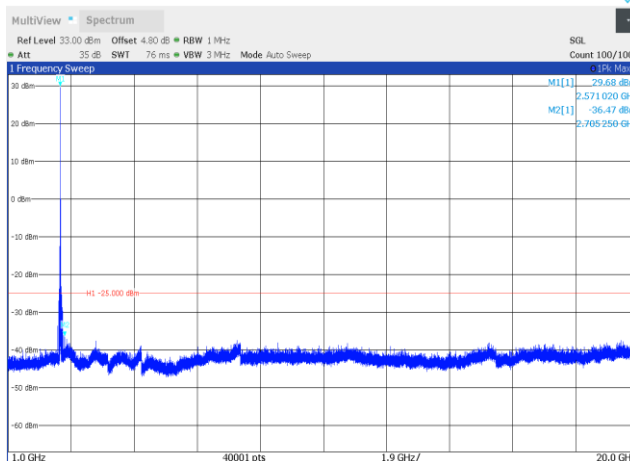
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



13:06:55 28.02.2024

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



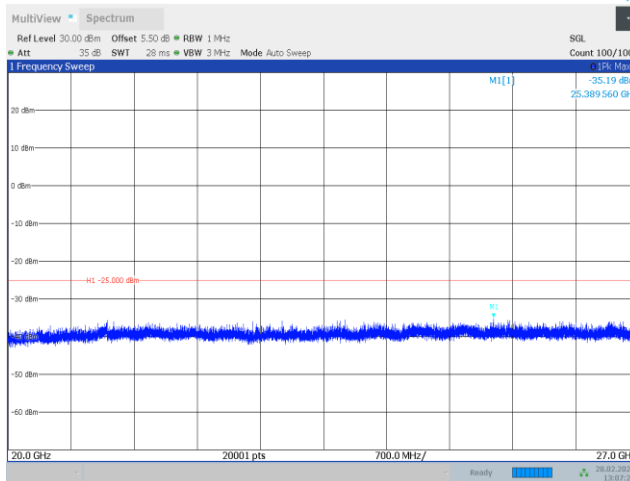
13:07:12 28.02.2024



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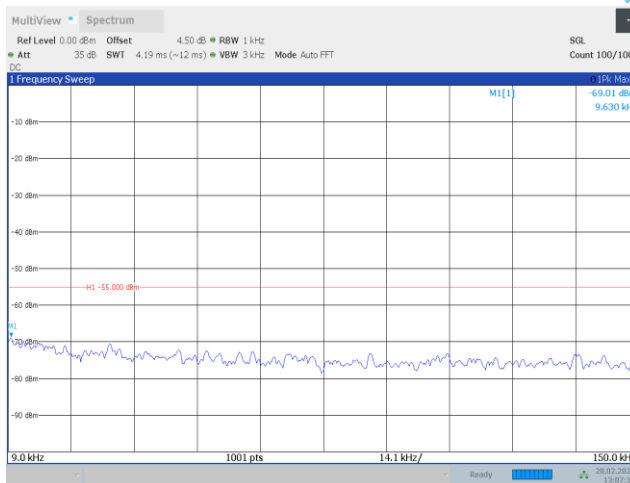
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



13:07:23 28.02.2024

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



13:07:35 28.02.2024

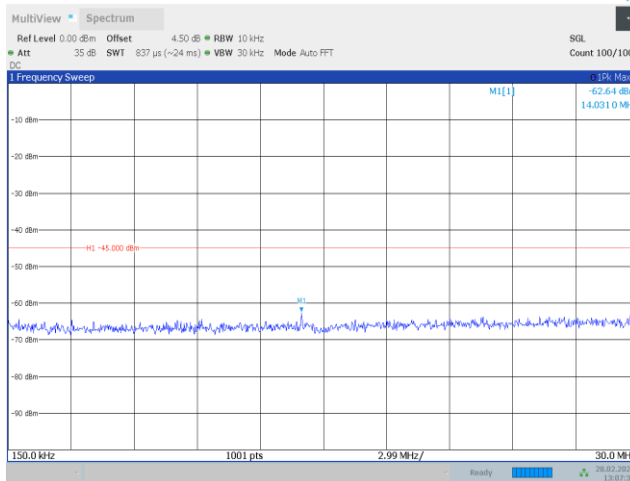


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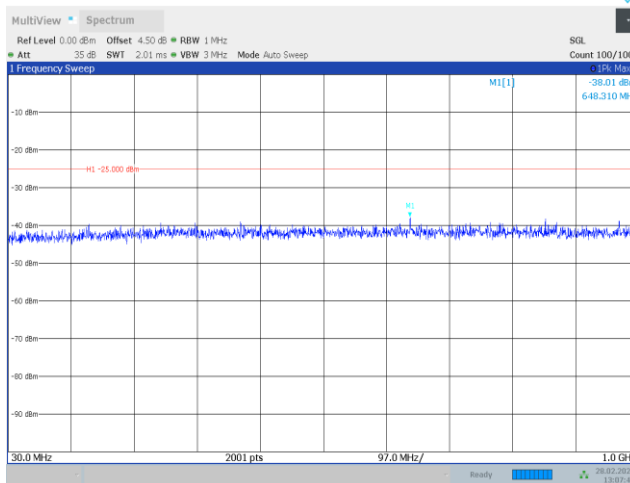


Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



13:07:38 28.02.2024

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



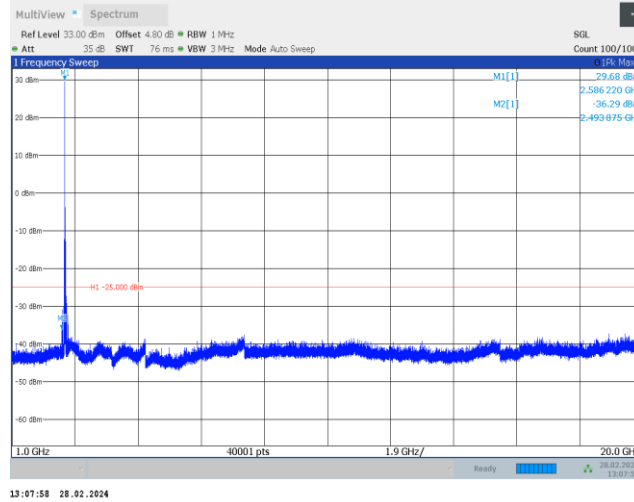
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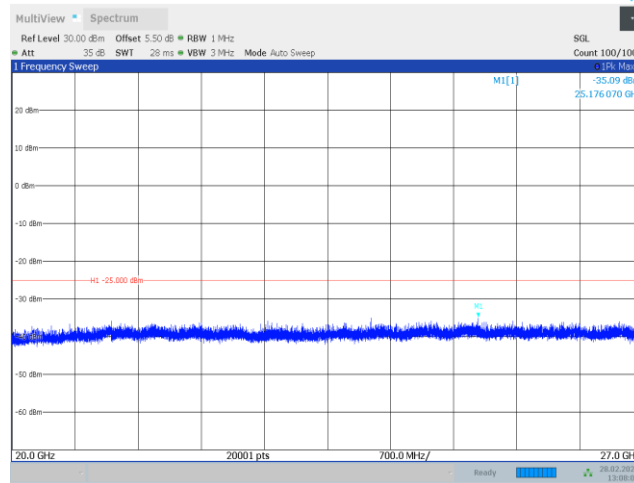
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



13:07:58 28.02.2024

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



13:08:09 28.02.2024

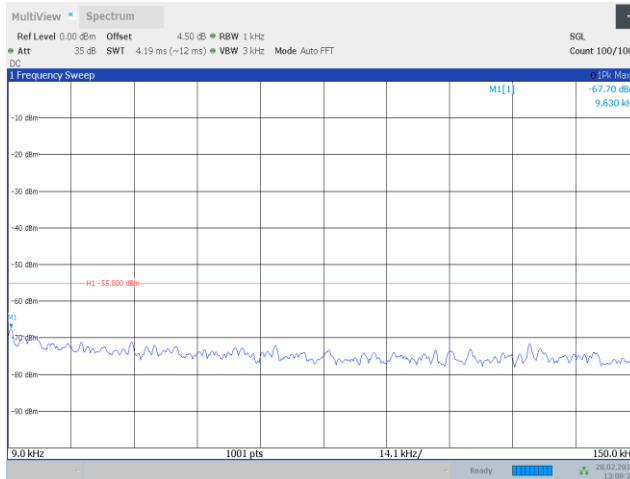


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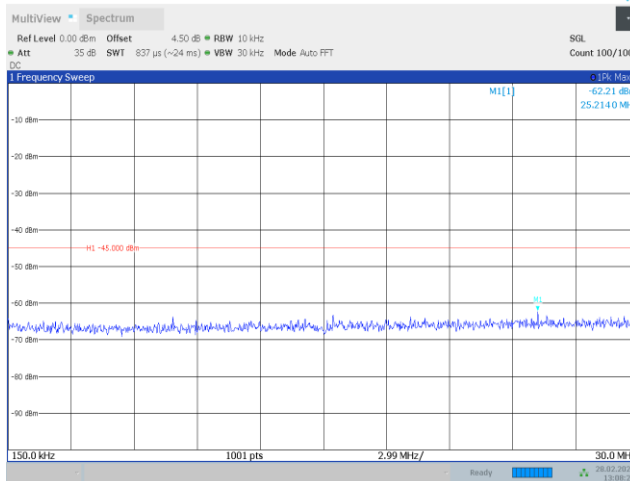
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



13:08:21 28.02.2024

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



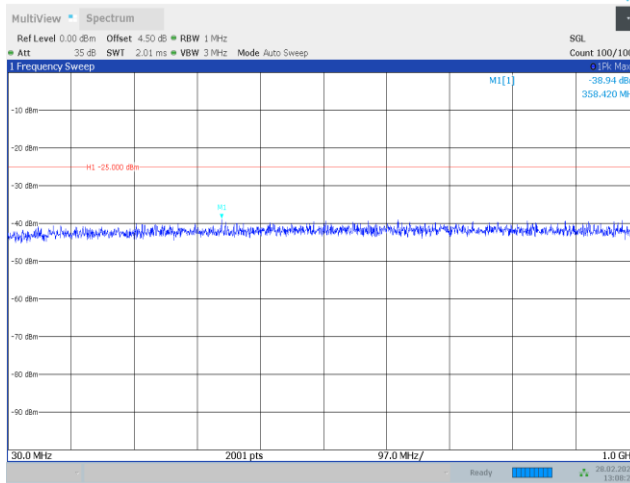
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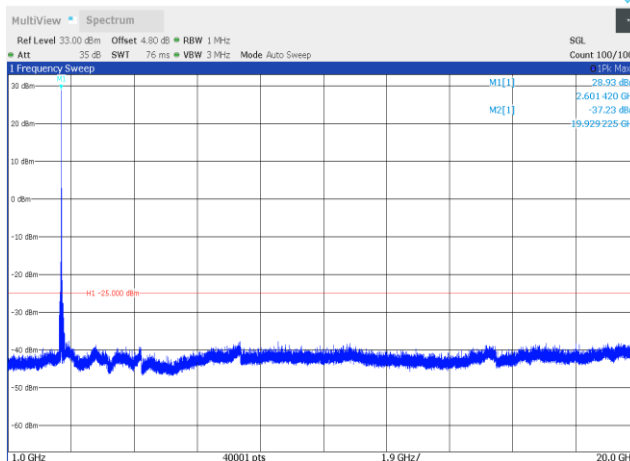
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



13:08:27 28.02.2024

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



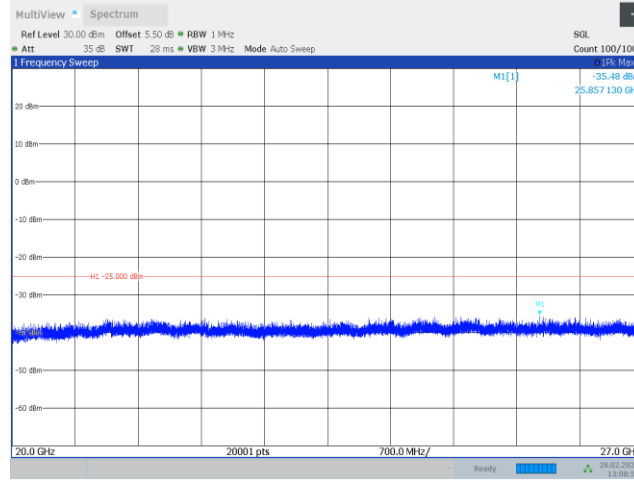
13:08:44 28.02.2024



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



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### Field Strength of Spurious Radiation

Test Band = LTE\_38

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1621.5	35.39	-19.18	25.27	-53.78	-25.00	28.78	Horizontal
2	3952.5	47.48	-44.18	29.90	-62.06	-25.00	37.06	Horizontal
3	5142.5	58.35	-42.53	31.76	-47.68	-25.00	22.68	Horizontal
4	7713	44.46	-37.60	36.70	-51.70	-25.00	26.70	Horizontal
5	10967	43.13	-37.13	40.13	-49.13	-25.00	24.13	Horizontal
6	16403	41.97	-34.84	38.82	-49.31	-25.00	24.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1349.5	34.94	-20.06	25.10	-55.28	-25.00	30.28	Vertical
2	3953.5	47.61	-44.18	29.89	-61.94	-25.00	36.94	Vertical
3	5142	61.56	-42.53	31.75	-44.48	-25.00	19.48	Vertical
4	7713.5	52.07	-37.61	36.69	-44.11	-25.00	19.11	Vertical
5	12855.5	46.78	-39.19	38.89	-48.78	-25.00	23.78	Vertical
6	16398	42.07	-34.83	38.79	-49.23	-25.00	24.23	Vertical



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Test Band = LTE\_38  
 Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1329	35.24	-20.31	24.89	-55.44	-25.00	30.44	Horizontal
2	5172.5	61.96	-42.54	31.85	-43.99	-25.00	18.99	Horizontal
3	7758.5	54.14	-37.76	36.43	-42.45	-25.00	17.45	Horizontal
4	10344.5	44.45	-37.28	39.14	-48.95	-25.00	23.95	Horizontal
5	12930.5	49.09	-38.99	38.92	-46.24	-25.00	21.24	Horizontal
6	16344	42.31	-35.13	38.63	-49.45	-25.00	24.45	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1365	34.97	-19.99	25.04	-55.24	-25.00	30.24	Vertical
2	5172	69.09	-42.54	31.84	-36.87	-25.00	11.87	Vertical
3	7758	61.62	-37.76	36.43	-34.97	-25.00	9.97	Vertical
4	10344.5	46.73	-37.28	39.14	-46.67	-25.00	21.67	Vertical
5	12930	51.34	-38.99	38.92	-43.99	-25.00	18.99	Vertical
6	16399.5	41.88	-34.82	38.80	-49.40	-25.00	24.40	Vertical



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Test Band = LTE\_38  
 Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1427	34.86	-19.72	25.12	-55.00	-25.00	30.00	Horizontal
2	5202	62.29	-42.55	31.89	-43.63	-25.00	18.63	Horizontal
3	7803.5	55.64	-37.89	36.61	-40.90	-25.00	15.90	Horizontal
4	10404.5	44.28	-37.14	39.19	-48.93	-25.00	23.93	Horizontal
5	13005.5	46.35	-38.81	39.22	-48.50	-25.00	23.50	Horizontal
6	16587.5	41.90	-35.38	39.48	-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	1466.5	35.21	-19.70	25.17	-54.58	-25.00	29.58	Vertical
2	4196.5	47.54	-43.57	29.59	-61.70	-25.00	36.70	Vertical
3	5202	68.95	-42.55	31.89	-36.97	-25.00	11.97	Vertical
4	7803	61.50	-37.89	36.61	-35.04	-25.00	10.04	Vertical
5	13005.5	52.38	-38.81	39.22	-42.47	-25.00	17.47	Vertical
6	16403.5	41.75	-34.85	38.82	-49.54	-25.00	24.54	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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	0.90	0.000347	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-1.10	-0.000424	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	0.60	0.000231	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-0.80	-0.000308	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	1.30	0.000501	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-0.50	-0.000193	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-0.10	-0.000039	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-0.60	-0.000231	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-0.40	-0.000154	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	1.30	0.000501	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	0.40	0.000154	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	0.30	0.000116	PASS

---End of Attachment---



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 Wireless Laboratory

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