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Rev.: 01  
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# 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	25.86	25.63	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	25.78	25.55	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	25.36	25.13	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	25.23	25	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	25.36	25.13	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	25.63	25.4	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	25.85	25.62	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	25.29	25.06	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	25.52	25.29	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	25.8	25.57	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	25.98	25.75	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	25.27	25.04	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	25.25	25.02	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	25.36	25.13	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	25.3	25.07	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	24.31	24.08	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	25.43	25.2	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	25.35	25.12	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	25.38	25.15	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	24.31	24.08	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	25.27	25.04	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	25.31	25.08	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	25.31	25.08	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	24.29	24.06	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	24.6	24.37	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	24.5	24.27	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	24.56	24.33	33	PASS



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Band38	5MHz	64QAM	37775	25RB#0	23.27	23.04	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	24.68	24.45	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	24.58	24.35	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	24.54	24.31	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	23.33	23.1	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	24.56	24.33	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	24.63	24.4	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	24.67	24.44	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	23.28	23.05	33	PASS
Band38	5MHz	256QAM	37775	1RB#0	21.3	21.07	33	PASS
Band38	5MHz	256QAM	37775	1RB#12	21.39	21.16	33	PASS
Band38	5MHz	256QAM	37775	1RB#24	21.33	21.1	33	PASS
Band38	5MHz	256QAM	37775	25RB#0	21.28	21.05	33	PASS
Band38	5MHz	256QAM	38000	1RB#0	21.39	21.16	33	PASS
Band38	5MHz	256QAM	38000	1RB#12	21.37	21.14	33	PASS
Band38	5MHz	256QAM	38000	1RB#24	21.38	21.15	33	PASS
Band38	5MHz	256QAM	38000	25RB#0	21.3	21.07	33	PASS
Band38	5MHz	256QAM	38225	1RB#0	21.35	21.12	33	PASS
Band38	5MHz	256QAM	38225	1RB#12	21.4	21.17	33	PASS
Band38	5MHz	256QAM	38225	1RB#24	21.48	21.25	33	PASS
Band38	5MHz	256QAM	38225	25RB#0	21.24	21.01	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	25.63	25.4	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	25.89	25.66	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	25.56	25.33	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	25.34	25.11	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	25.33	25.1	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	25.36	25.13	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	25.52	25.29	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	25.35	25.12	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	25.51	25.28	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	25.52	25.29	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	25.63	25.4	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	25.22	24.99	33	PASS



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Band38	10MHz	16QAM	37800	1RB#0	25.23	25	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	25.4	25.17	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	25.37	25.14	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	24.32	24.09	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	25.4	25.17	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	25.39	25.16	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	25.3	25.07	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	24.32	24.09	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	25.24	25.01	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	25.32	25.09	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	25.34	25.11	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	24.23	24	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	24.57	24.34	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	24.68	24.45	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	24.56	24.33	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	23.32	23.09	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	24.59	24.36	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	24.55	24.32	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	24.49	24.26	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	23.33	23.1	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	24.52	24.29	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	24.61	24.38	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	24.65	24.42	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	23.21	22.98	33	PASS
Band38	10MHz	256QAM	37800	1RB#0	21.27	21.04	33	PASS
Band38	10MHz	256QAM	37800	1RB#24	21.39	21.16	33	PASS
Band38	10MHz	256QAM	37800	1RB#49	21.29	21.06	33	PASS
Band38	10MHz	256QAM	37800	50RB#0	21.3	21.07	33	PASS
Band38	10MHz	256QAM	38000	1RB#0	21.37	21.14	33	PASS
Band38	10MHz	256QAM	38000	1RB#24	21.43	21.2	33	PASS
Band38	10MHz	256QAM	38000	1RB#49	21.28	21.05	33	PASS
Band38	10MHz	256QAM	38000	50RB#0	21.34	21.11	33	PASS
Band38	10MHz	256QAM	38200	1RB#0	21.37	21.14	33	PASS



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Band38	10MHz	256QAM	38200	1RB#24	21.48	21.25	33	PASS
Band38	10MHz	256QAM	38200	1RB#49	21.35	21.12	33	PASS
Band38	10MHz	256QAM	38200	50RB#0	21.19	20.96	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	25.63	25.4	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	25.58	25.35	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	25.56	25.33	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	25.17	24.94	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	25.63	25.4	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	25.85	25.62	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	25.99	25.76	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	25.21	24.98	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	25.52	25.29	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	25.89	25.66	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	25.85	25.62	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	25.13	24.9	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	25.24	25.01	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	25.32	25.09	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	25.31	25.08	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	24.22	23.99	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	25.24	25.01	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	25.52	25.29	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	25.22	24.99	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	24.21	23.98	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	25.23	25	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	25.18	24.95	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	25.2	24.97	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	24.16	23.93	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	24.41	24.18	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	24.58	24.35	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	24.42	24.19	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	23.25	23.02	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	24.36	24.13	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	24.47	24.24	33	PASS



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Band38	15MHz	64QAM	38000	1RB#74	24.53	24.3	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	23.23	23	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	24.41	24.18	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	24.45	24.22	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	24.4	24.17	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	23.19	22.96	33	PASS
Band38	15MHz	256QAM	37825	1RB#0	21.13	20.9	33	PASS
Band38	15MHz	256QAM	37825	1RB#38	21.34	21.11	33	PASS
Band38	15MHz	256QAM	37825	1RB#74	21.28	21.05	33	PASS
Band38	15MHz	256QAM	37825	75RB#0	21.19	20.96	33	PASS
Band38	15MHz	256QAM	38000	1RB#0	21.22	20.99	33	PASS
Band38	15MHz	256QAM	38000	1RB#38	21.35	21.12	33	PASS
Band38	15MHz	256QAM	38000	1RB#74	21.27	21.04	33	PASS
Band38	15MHz	256QAM	38000	75RB#0	21.24	21.01	33	PASS
Band38	15MHz	256QAM	38175	1RB#0	21.08	20.85	33	PASS
Band38	15MHz	256QAM	38175	1RB#38	21.32	21.09	33	PASS
Band38	15MHz	256QAM	38175	1RB#74	21.21	20.98	33	PASS
Band38	15MHz	256QAM	38175	75RB#0	21.13	20.9	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	2466	2465.77	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	25.78	25.55	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	25.85	25.62	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	25.22	24.99	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	25.56	25.33	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	25.63	25.4	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	25.78	25.55	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	25.23	25	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	25.69	25.46	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	25.65	25.42	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	25.85	25.62	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	25.17	24.94	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	25.26	25.03	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	25.38	25.15	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	25.32	25.09	33	PASS



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Band38	20MHz	16QAM	37850	100RB#0	24.24	24.01	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	25.18	24.95	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	25.34	25.11	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	25.22	24.99	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	24.23	24	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	25.11	24.88	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	25.18	24.95	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	25.14	24.91	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	24.18	23.95	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	24.45	24.22	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	24.62	24.39	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	24.56	24.33	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	23.22	22.99	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	24.51	24.28	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	24.48	24.25	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	24.41	24.18	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	23.23	23	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	24.41	24.18	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	24.54	24.31	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	24.32	24.09	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	23.19	22.96	33	PASS
Band38	20MHz	256QAM	37850	1RB#0	21.21	20.98	33	PASS
Band38	20MHz	256QAM	37850	1RB#49	21.34	21.11	33	PASS
Band38	20MHz	256QAM	37850	1RB#99	21.42	21.19	33	PASS
Band38	20MHz	256QAM	37850	100RB#0	21.23	21	33	PASS
Band38	20MHz	256QAM	38000	1RB#0	21.31	21.08	33	PASS
Band38	20MHz	256QAM	38000	1RB#49	21.36	21.13	33	PASS
Band38	20MHz	256QAM	38000	1RB#99	21.29	21.06	33	PASS
Band38	20MHz	256QAM	38000	100RB#0	21.22	20.99	33	PASS
Band38	20MHz	256QAM	38150	1RB#0	21.23	21	33	PASS
Band38	20MHz	256QAM	38150	1RB#49	21.33	21.1	33	PASS
Band38	20MHz	256QAM	38150	1RB#99	21.19	20.96	33	PASS
Band38	20MHz	256QAM	38150	100RB#0	21.19	20.96	33	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	8.56	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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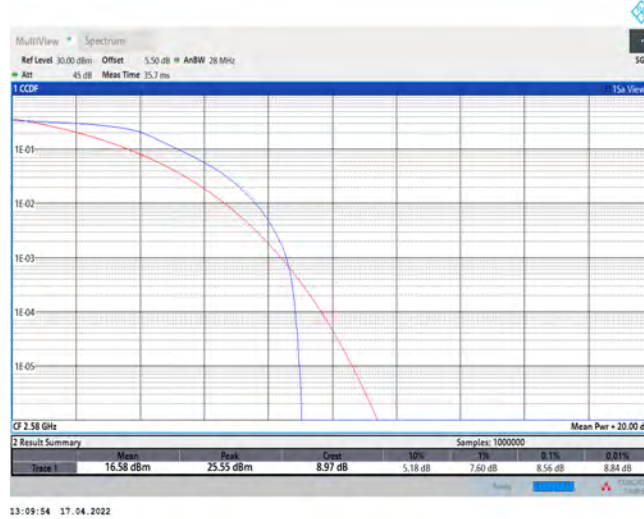
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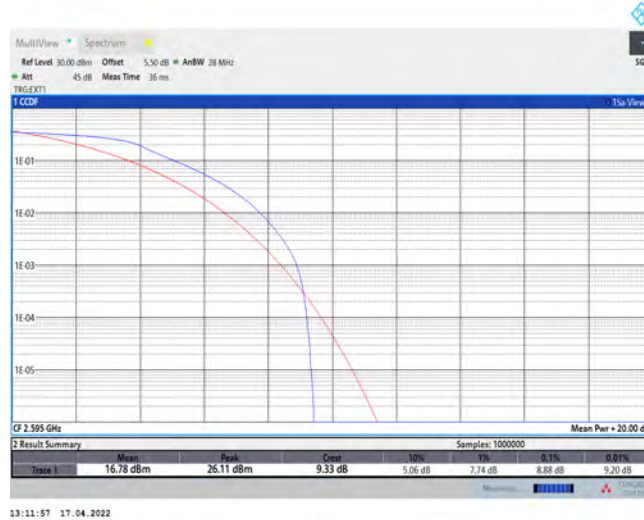


Test Graphs

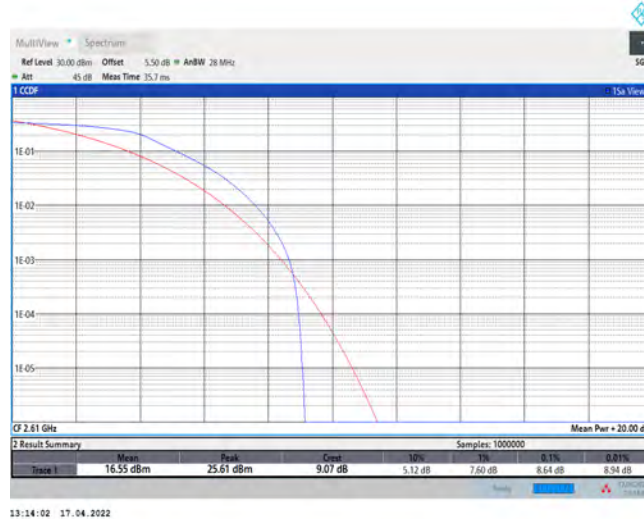
Band38-20MHz-QPSK-37850-100RB#0



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

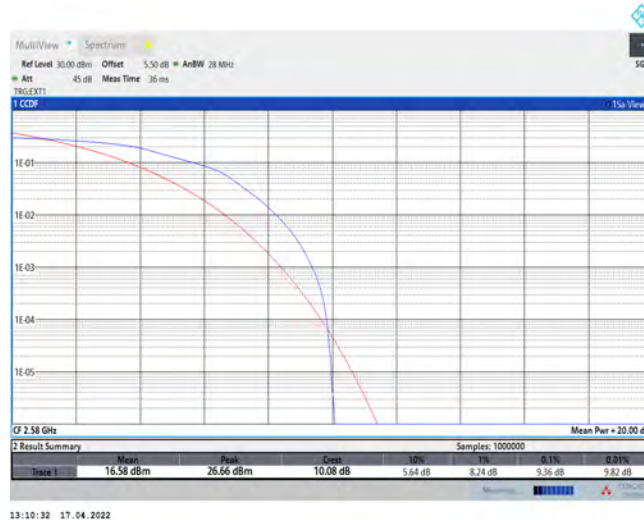


Band38-20MHz-QPSK-38150-100RB#0



13:14:02 17.04.2022

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



13:10:32 17.04.2022



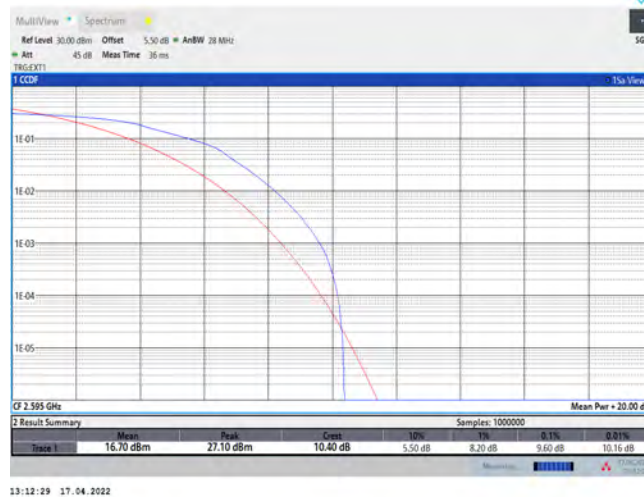
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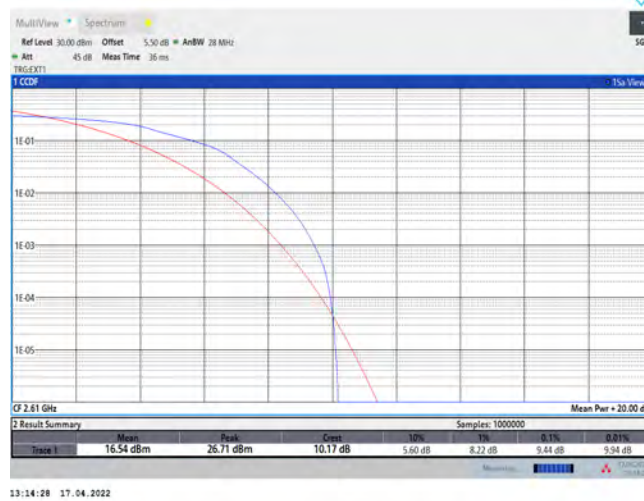
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Band38-20MHz-16QAM-38000-100RB#0



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

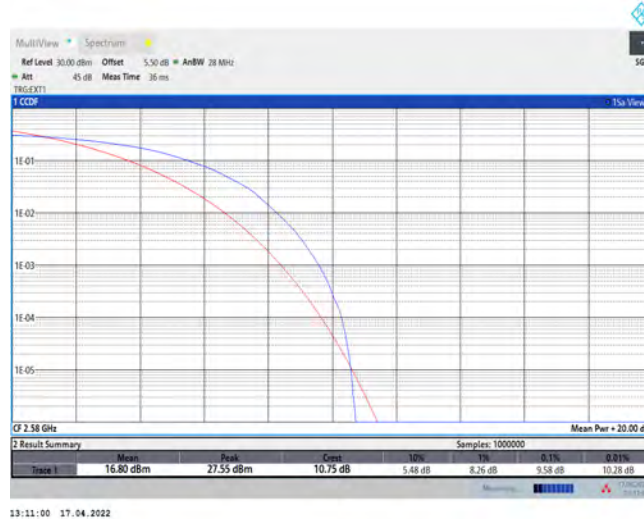


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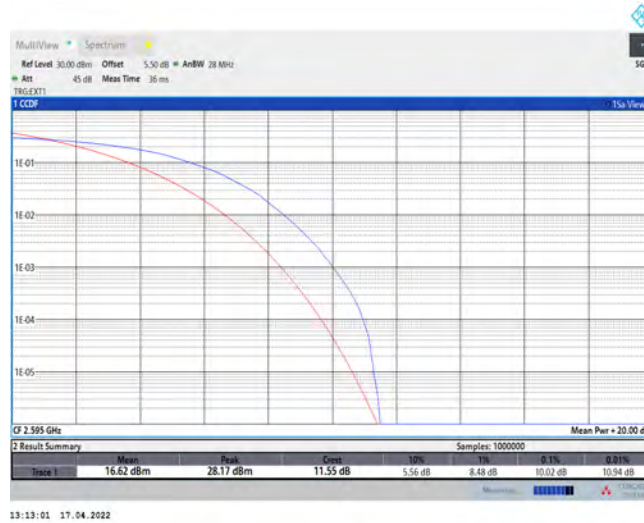
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Band38-20MHz-64QAM-37850-100RB#0



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



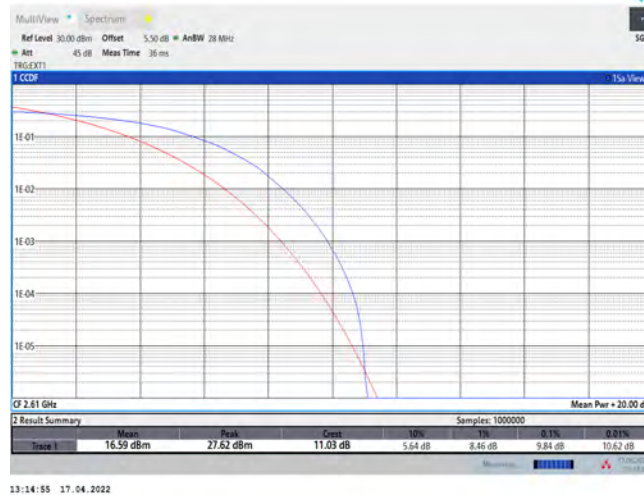
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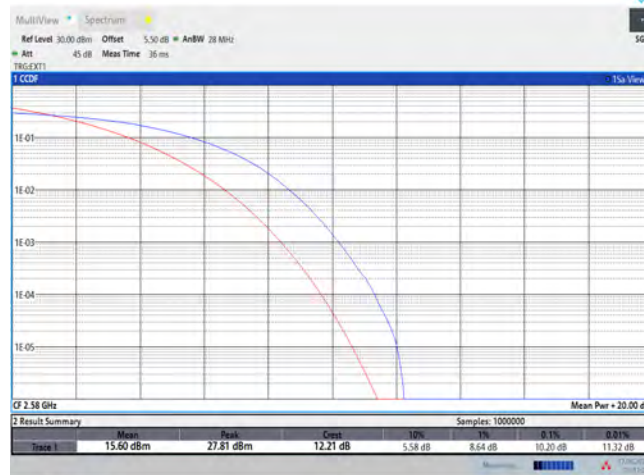
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Band38-20MHz-64QAM-38150-100RB#0



13:14:55 17.04.2022

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



13:11:29 17.04.2022



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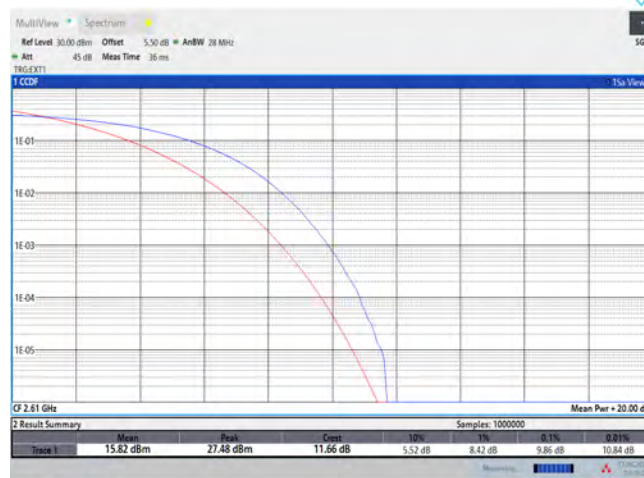
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Band38-20MHz-256QAM-38000-100RB#0



13:13:29 17.04.2022

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



13:15:23 17.04.2022



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Rev.: 01

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### Modulation Characteristics

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	256QAM	38000	100RB#0	PASS	PASS



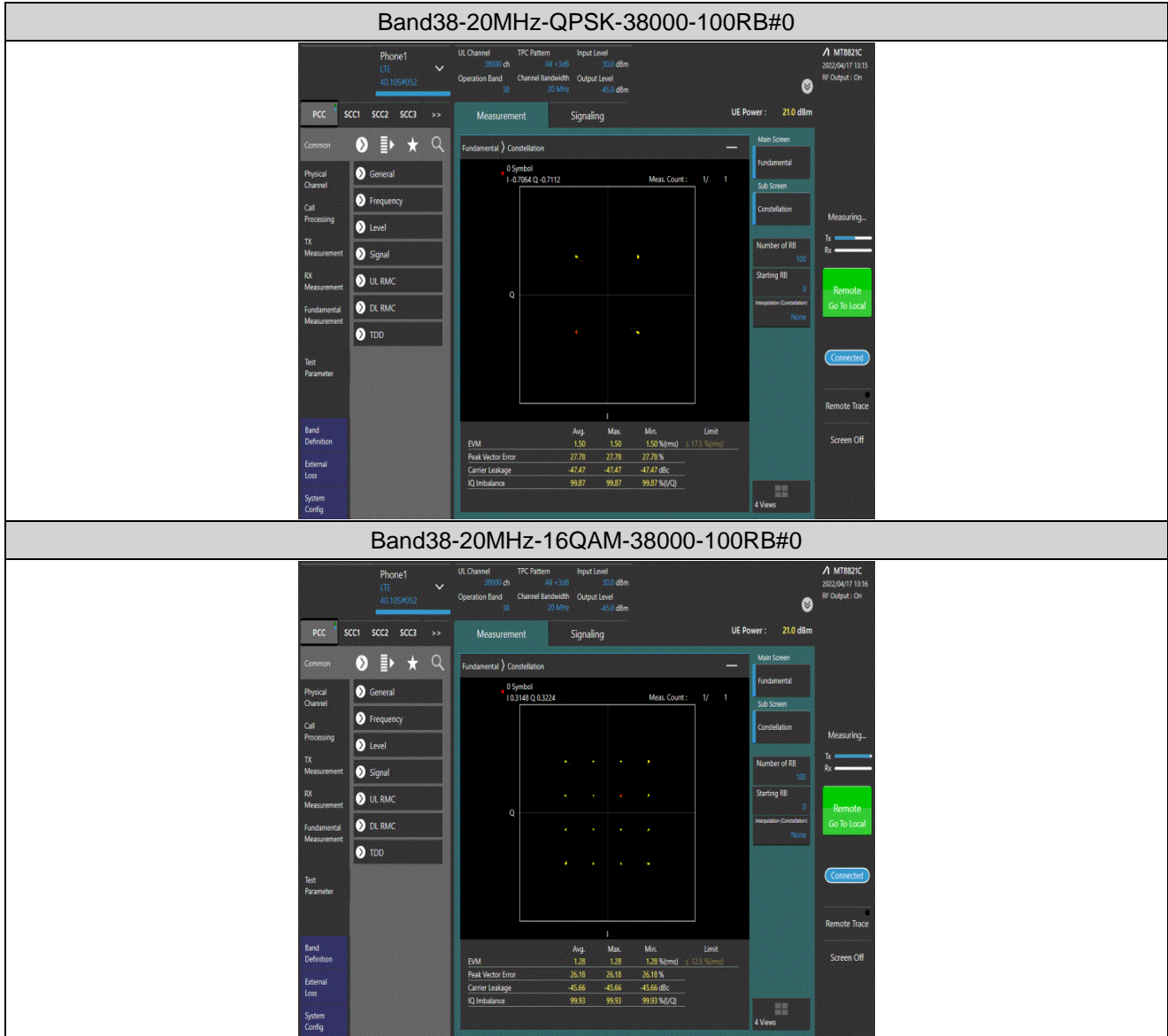
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Test Graphs



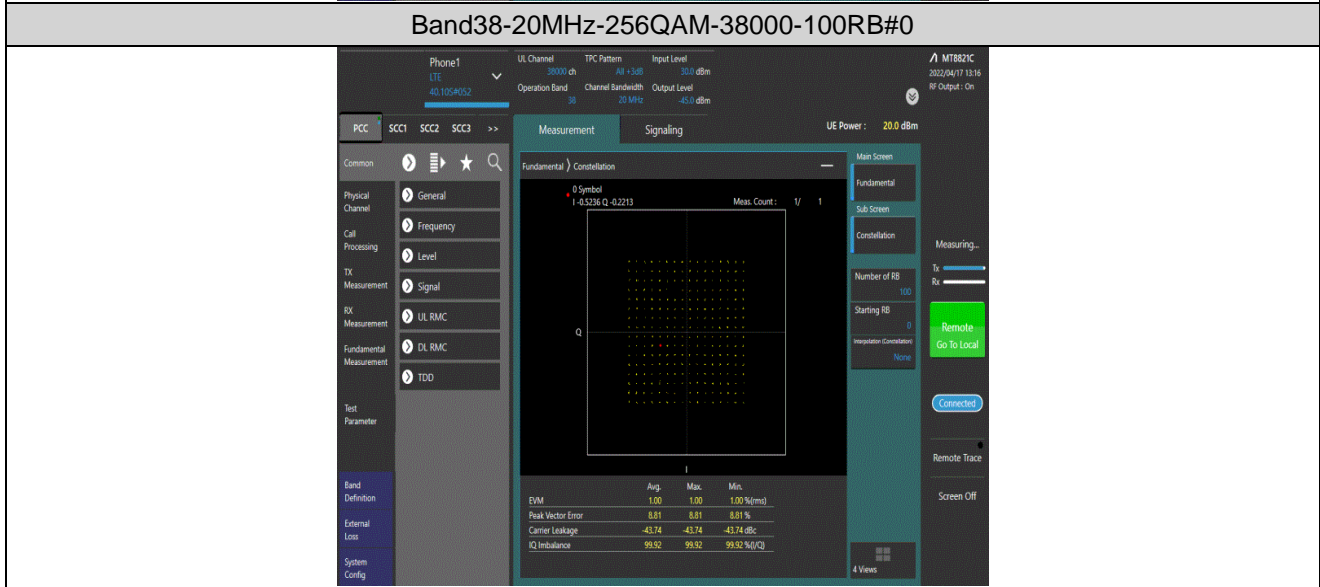
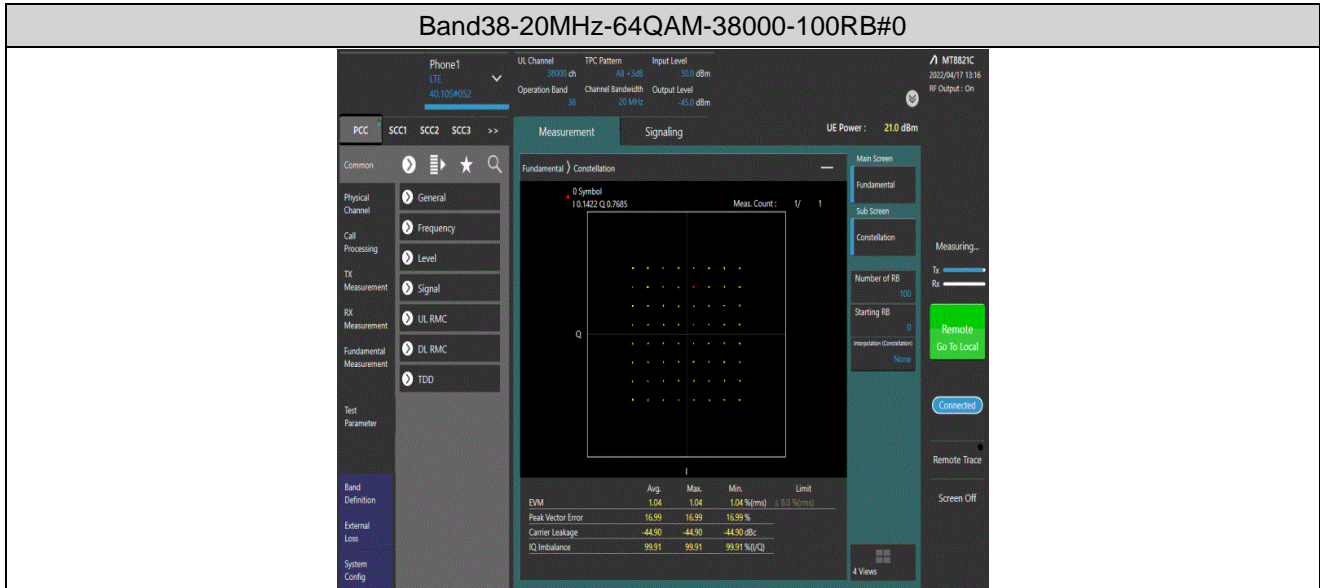
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.472	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
Band38	15MHz	16QAM	38175	75RB#0	13.498	16.44	PASS



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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

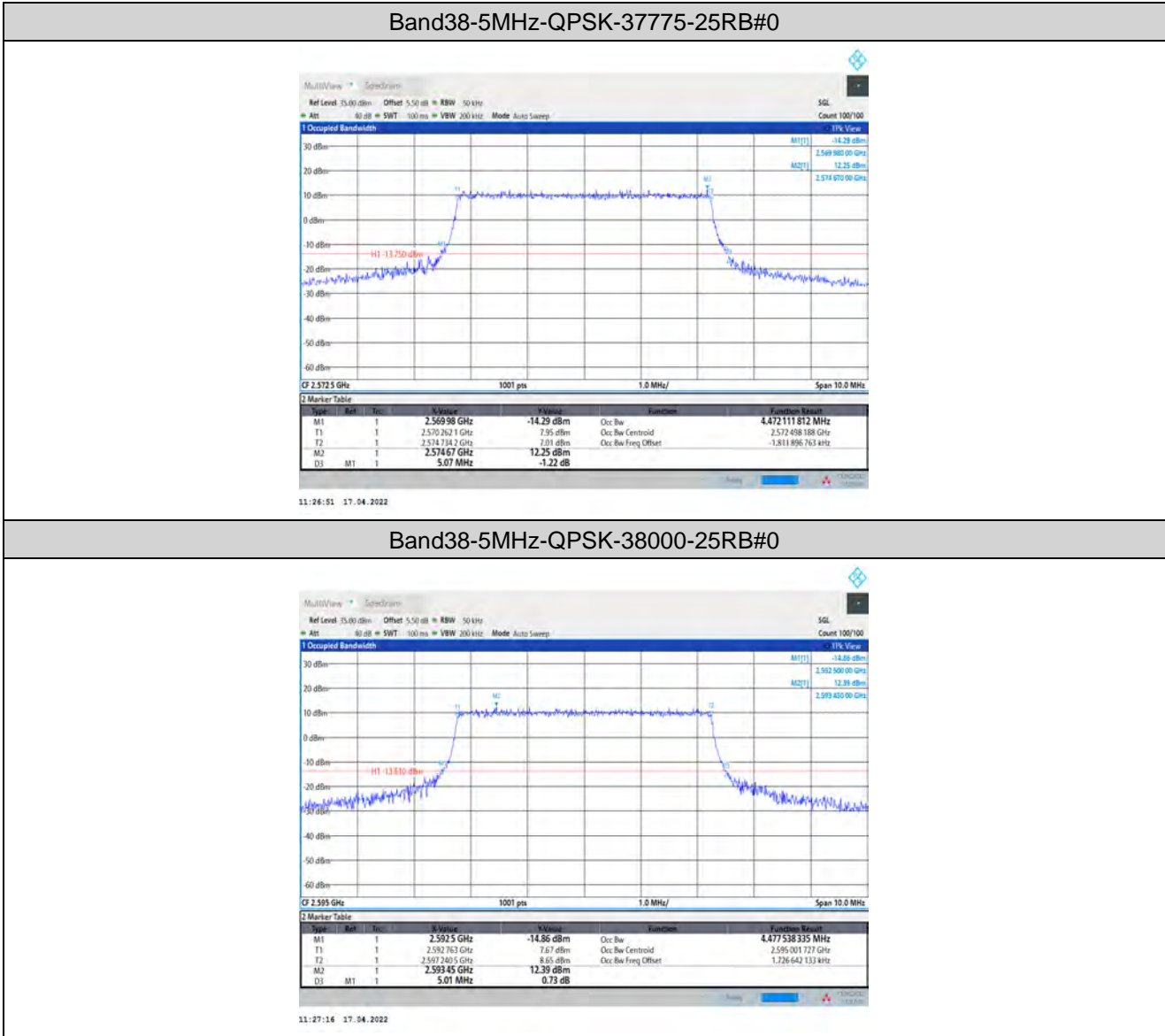


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Test Graphs



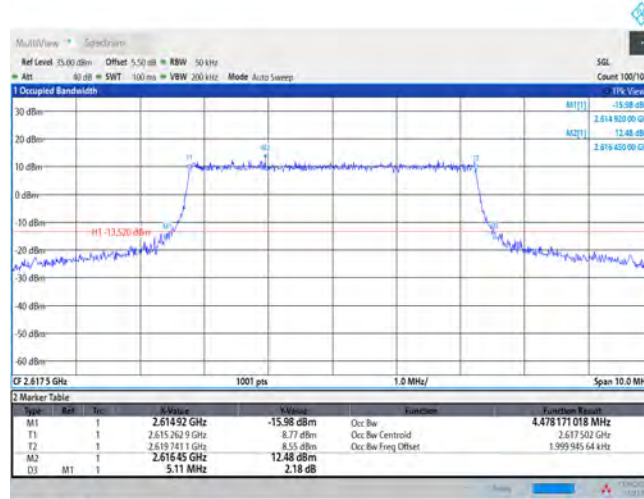
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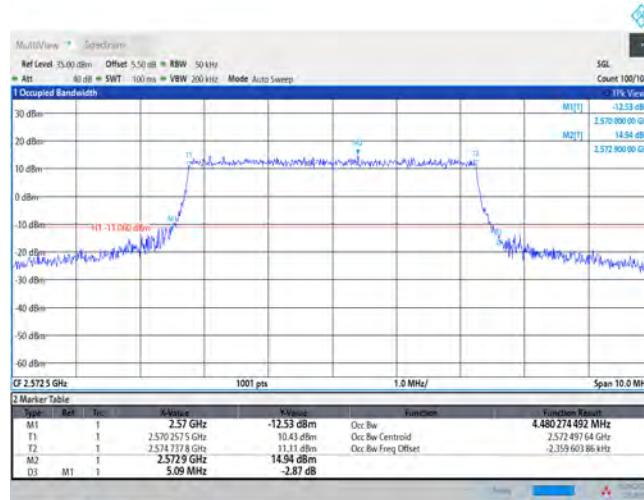
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Band38-5MHz-QPSK-38225-25RB#0



11:27:42 17.04.2022

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



23:30:41 16.04.2022



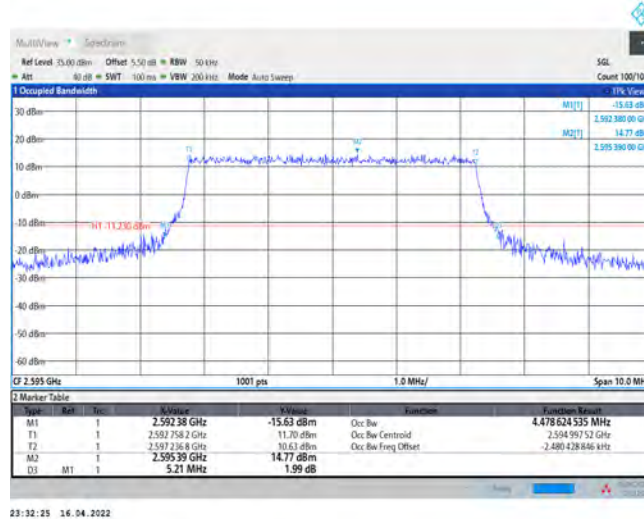
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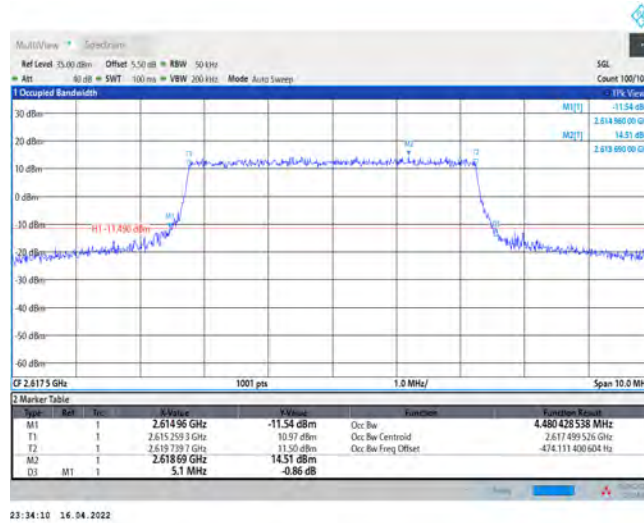
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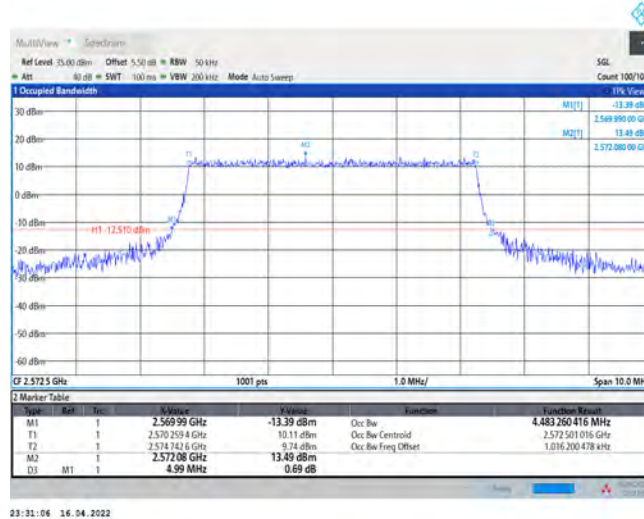
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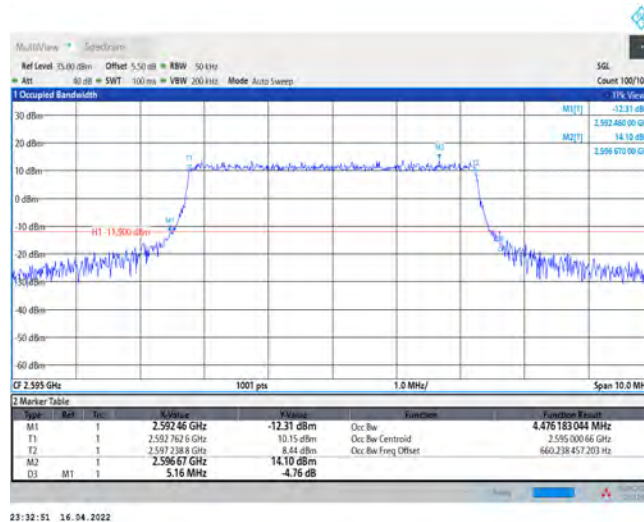
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Band38-5MHz-64QAM-37775-25RB#0



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

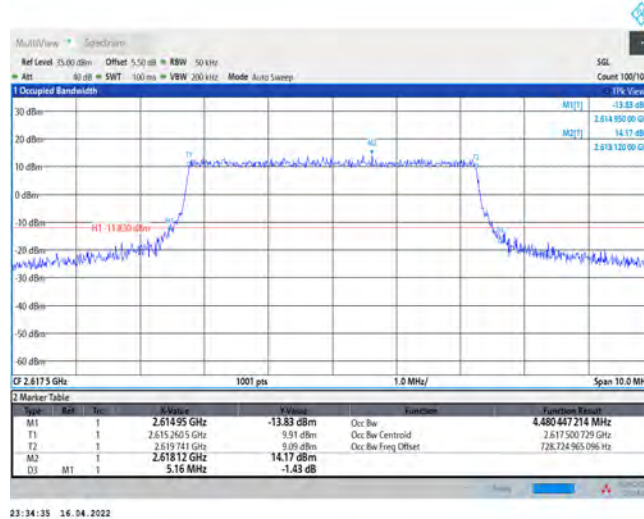


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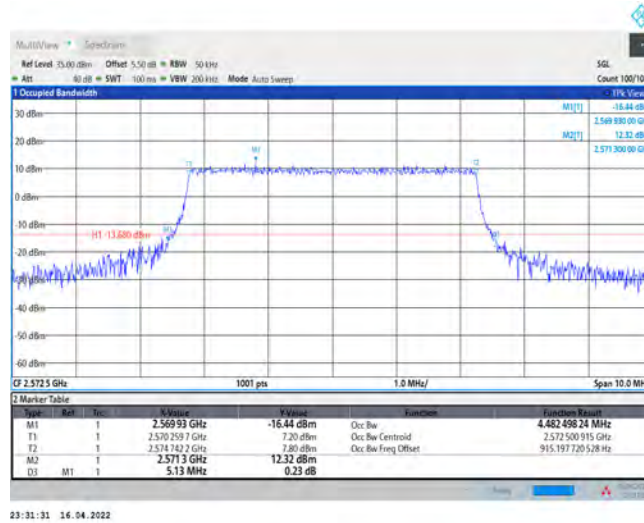
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Band38-5MHz-64QAM-38225-25RB#0

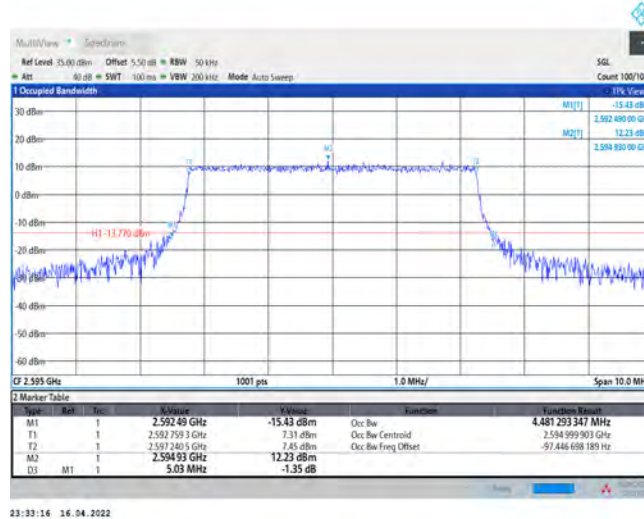


Band38-5MHz-256QAM-37775-25RB#0



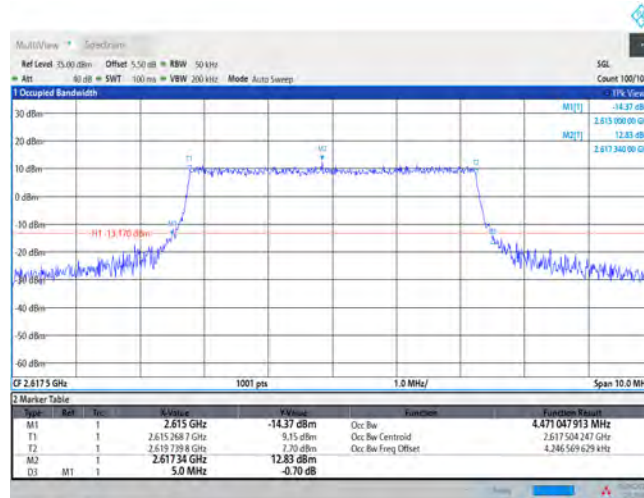


Band38-5MHz-256QAM-38000-25RB#0



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



23:35:00 16.04.2022

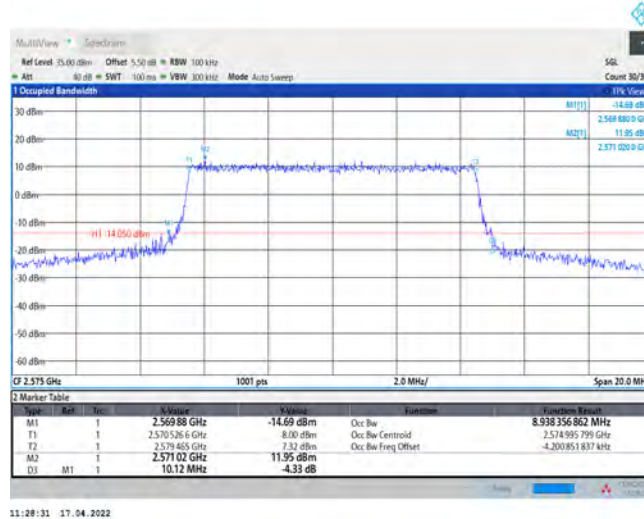


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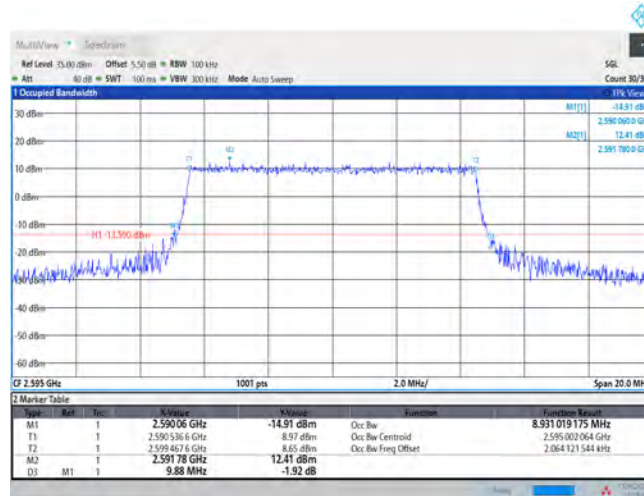
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Band38-10MHz-QPSK-37800-50RB#0



11:28:31 17.04.2022

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



11:28:49 17.04.2022



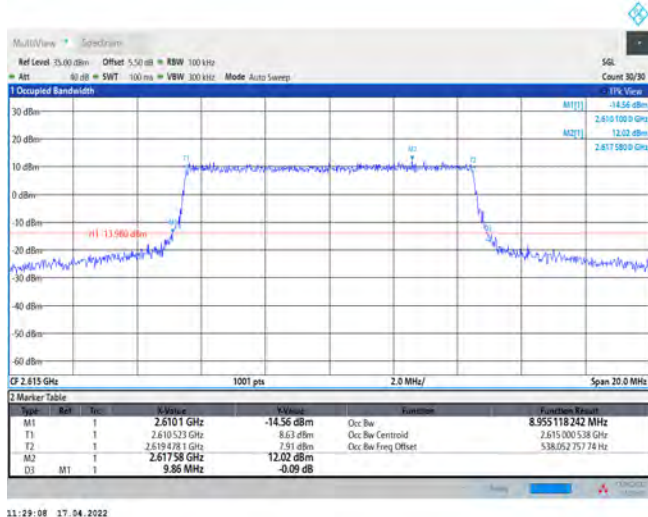
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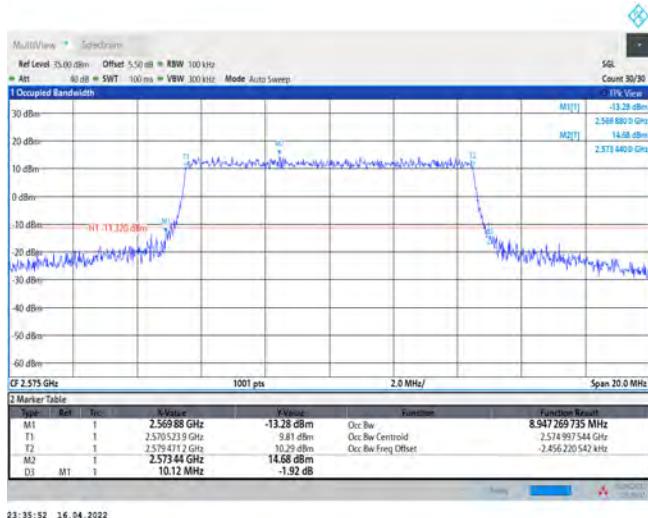
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Band38-10MHz-QPSK-38200-50RB#0



11:29:08 17.04.2022

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



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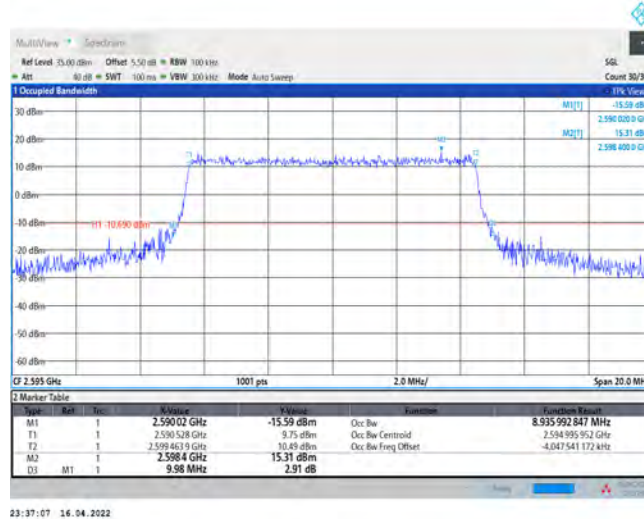


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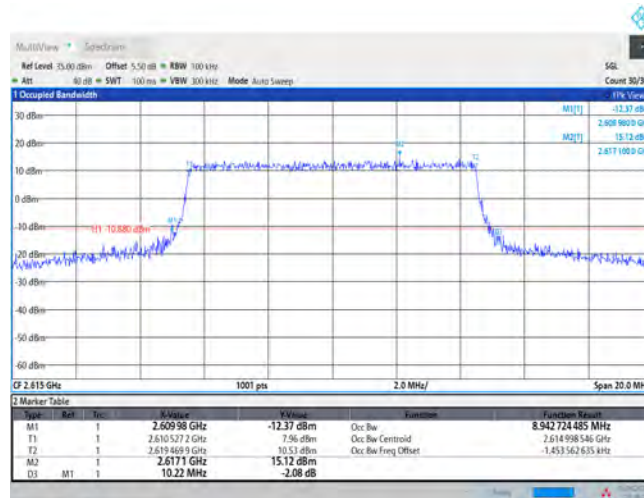
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Band38-10MHz-16QAM-38000-50RB#0



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



23:38:23 16.04.2022

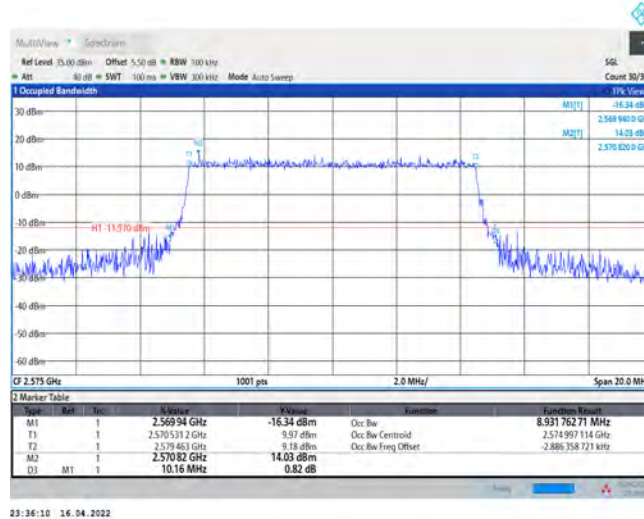


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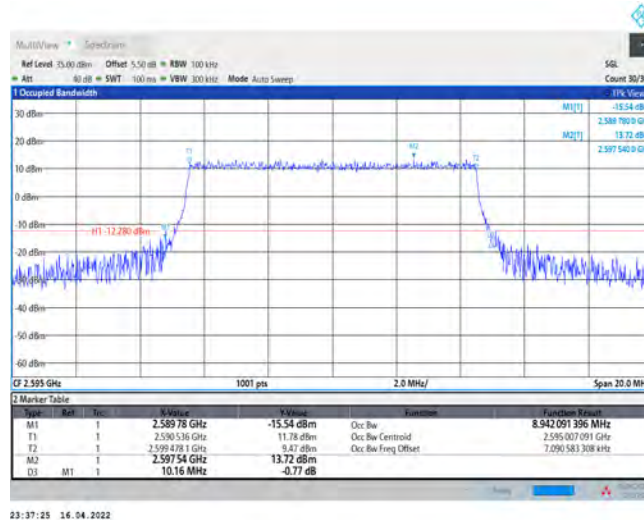
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Band38-10MHz-64QAM-37800-50RB#0



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



23:37:25 16.04.2022

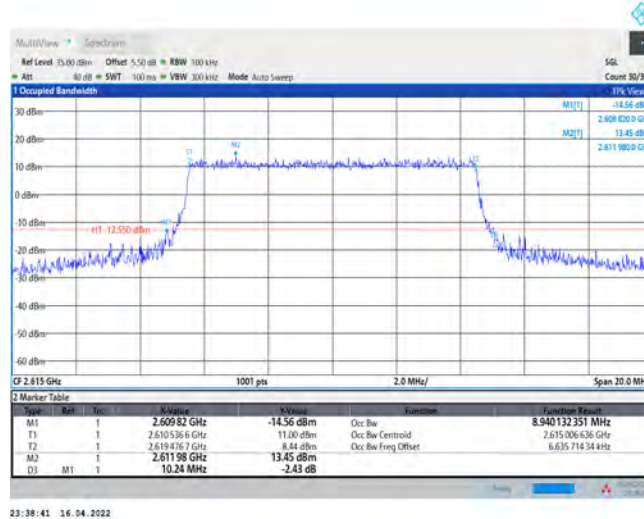


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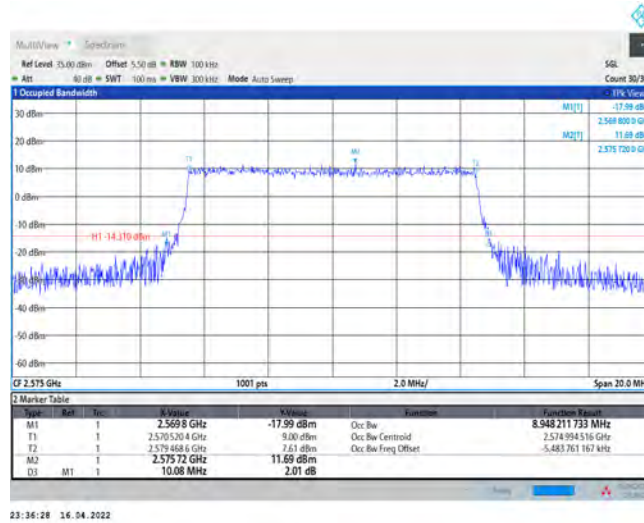
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Band38-10MHz-256QAM-37800-50RB#0

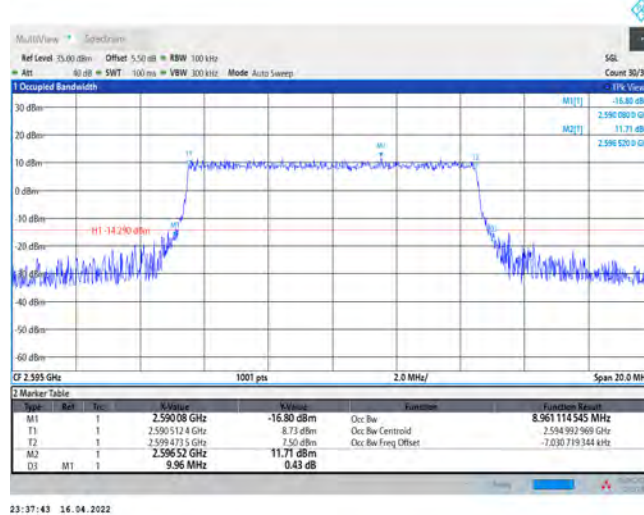


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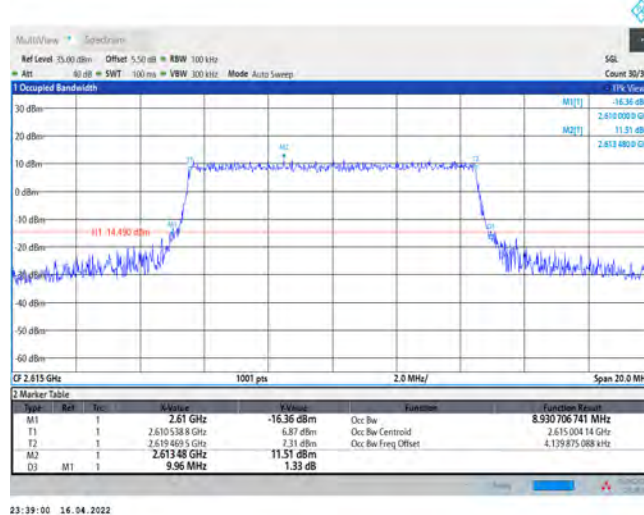
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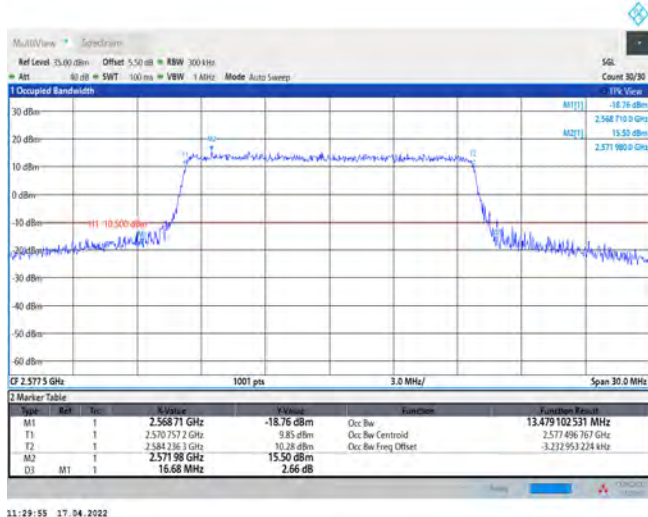
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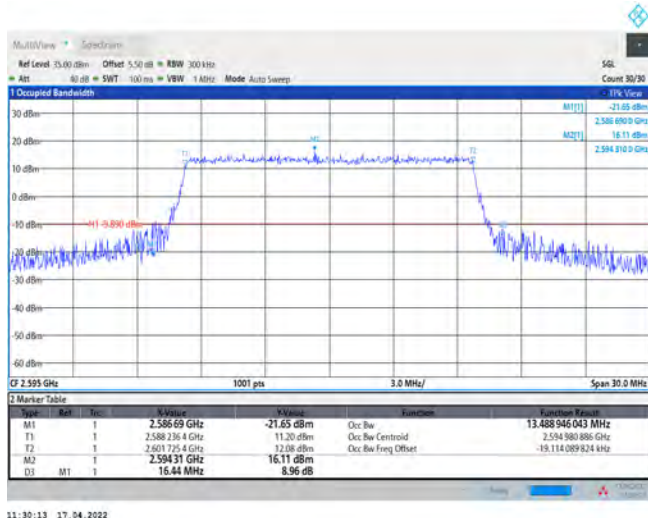
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Band38-15MHz-QPSK-37825-75RB#0



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



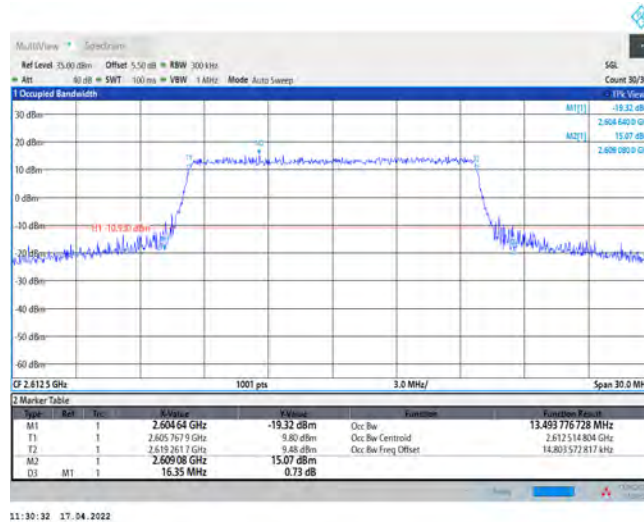
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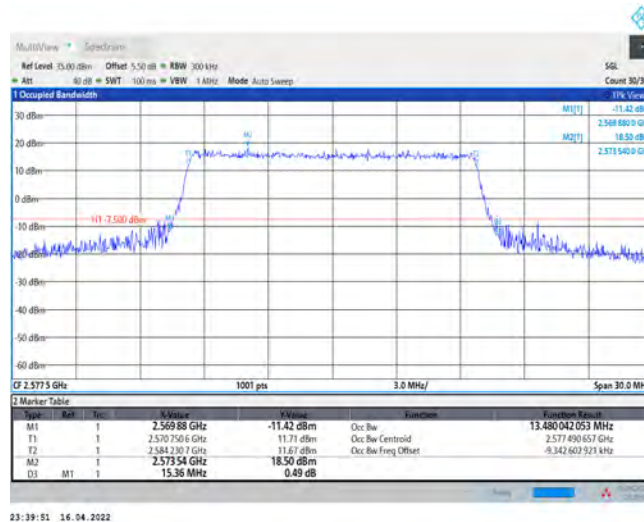


Band38-15MHz-QPSK-38175-75RB#0



11:30:32 17.04.2022

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



23:39:51 16.04.2022



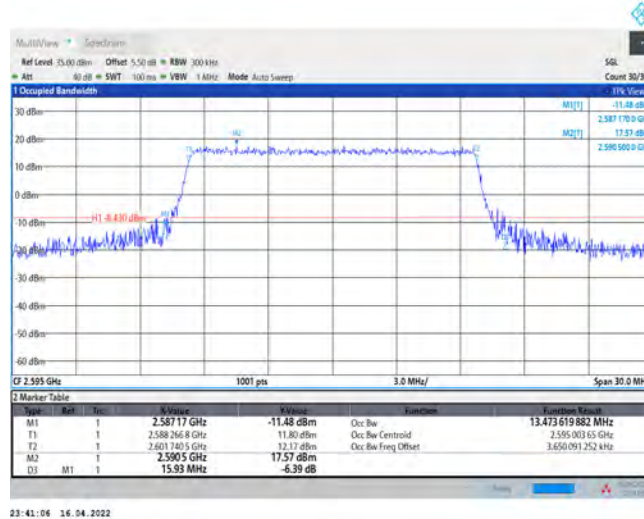
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Band38-15MHz-16QAM-38000-75RB#0



23:41:04 16.04.2022

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



23:42:22 16.04.2022

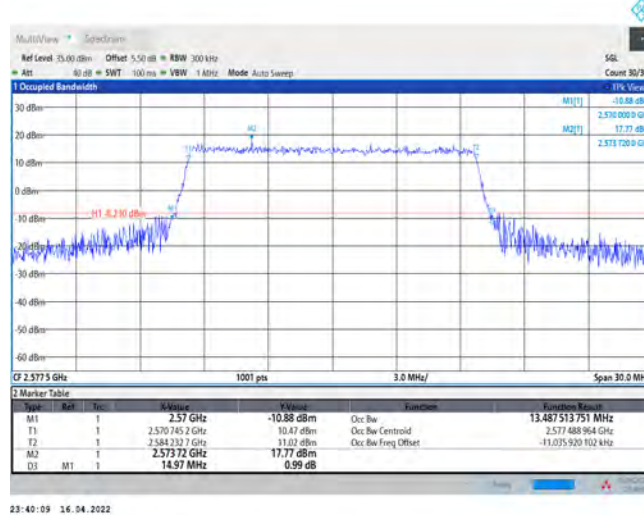


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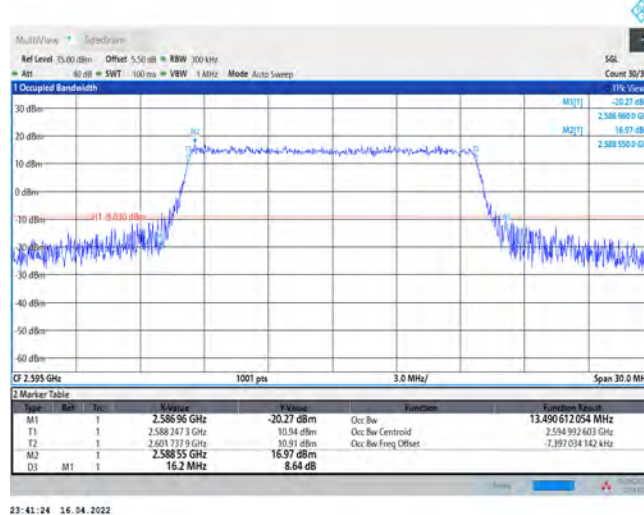
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Band38-15MHz-64QAM-37825-75RB#0



23:40:09 16.04.2022

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



23:41:24 16.04.2022

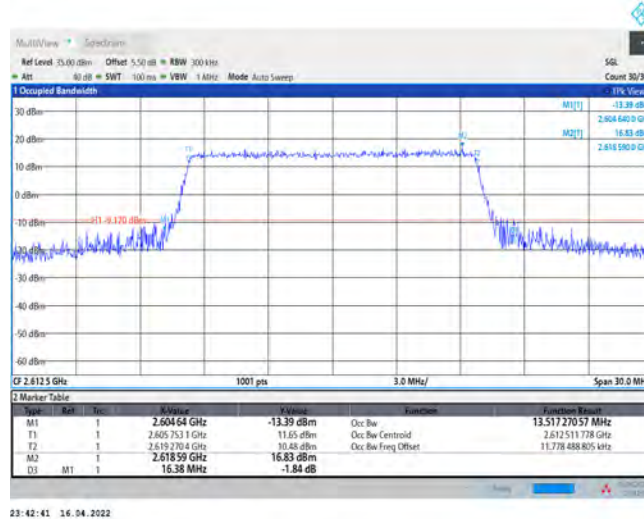


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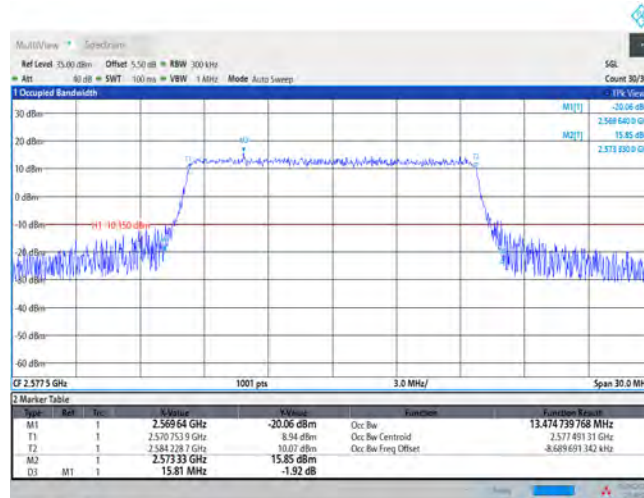
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Band38-15MHz-64QAM-38175-75RB#0



23:42:41 16.04.2022

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



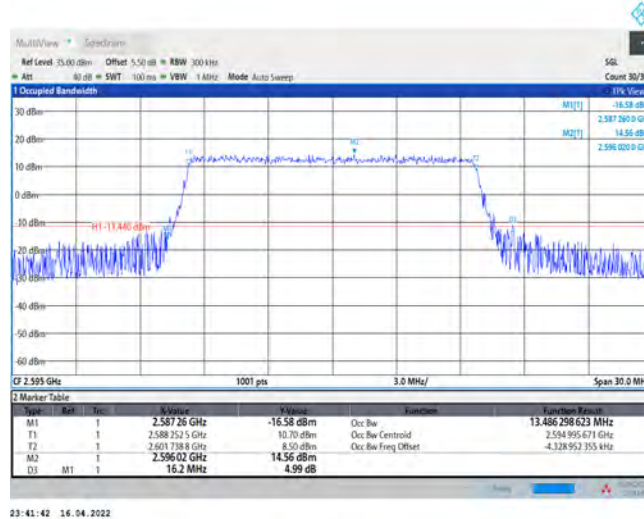
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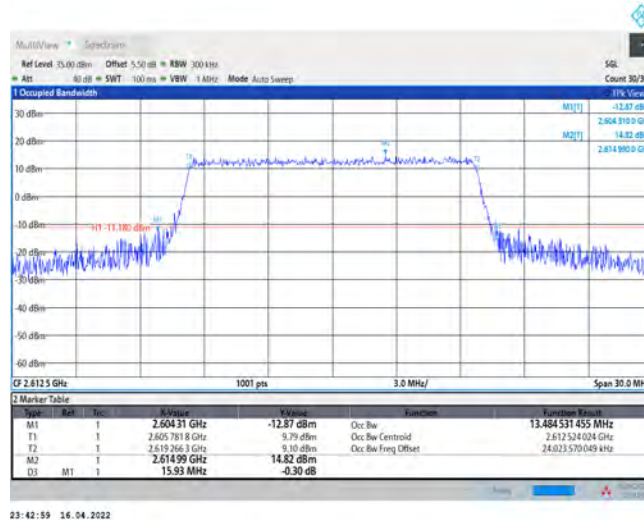
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Band38-15MHz-256QAM-38000-75RB#0



23:41:42 16.04.2022

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



23:42:59 16.04.2022



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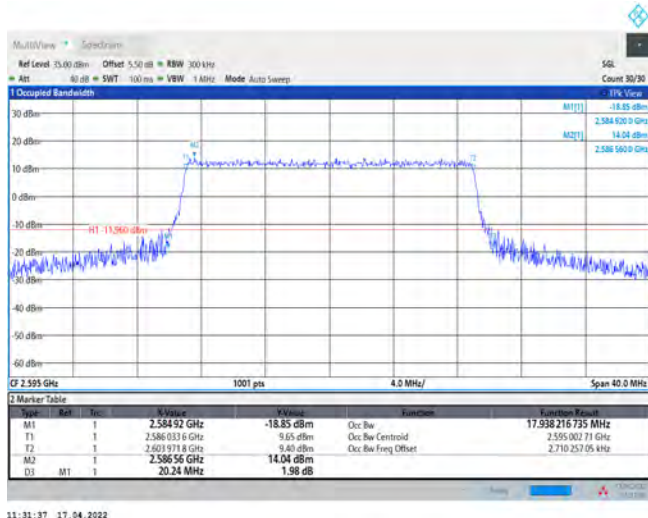
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Band38-20MHz-QPSK-37850-100RB#0



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

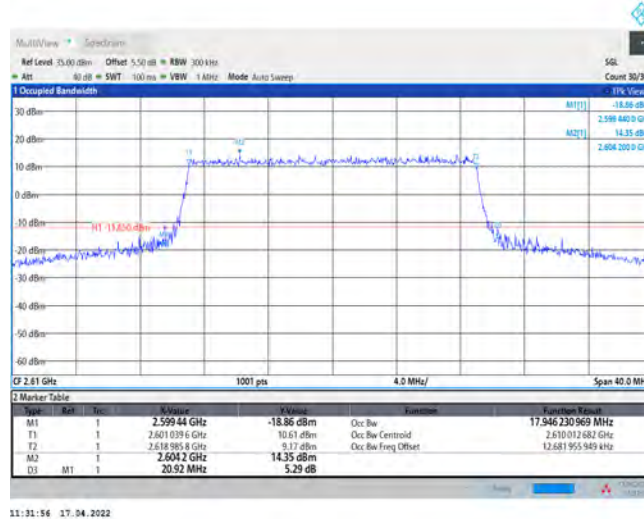


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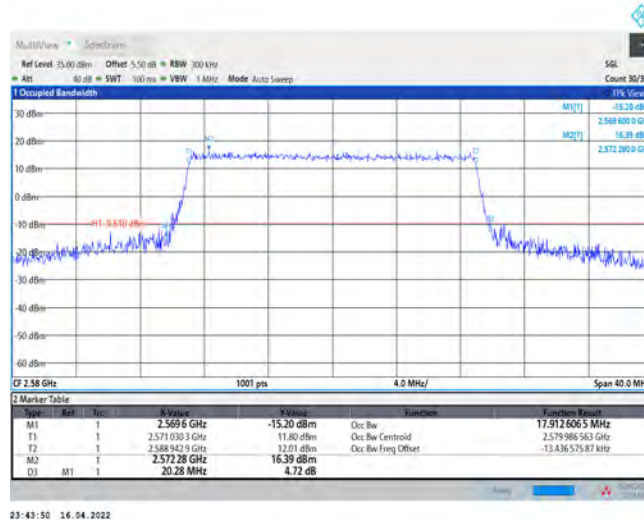
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Band38-20MHz-QPSK-38150-100RB#0



11:31:56 17.04.2022

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



23:43:50 16.04.2022



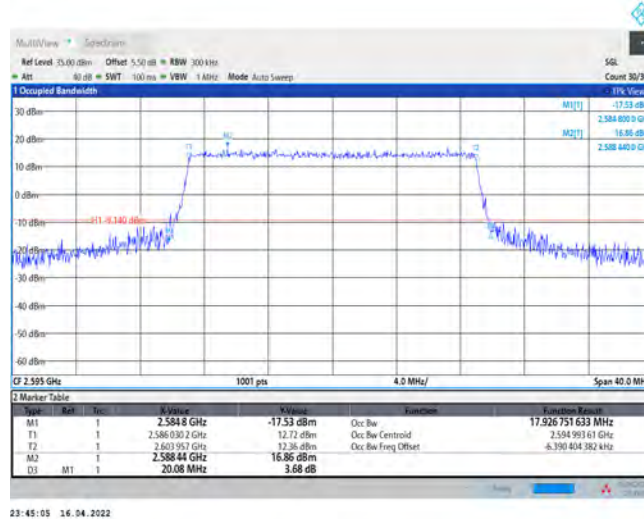
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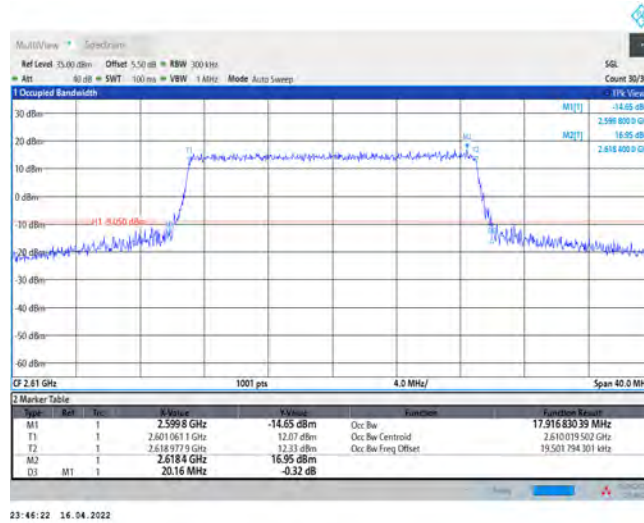
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Band38-20MHz-16QAM-38000-100RB#0

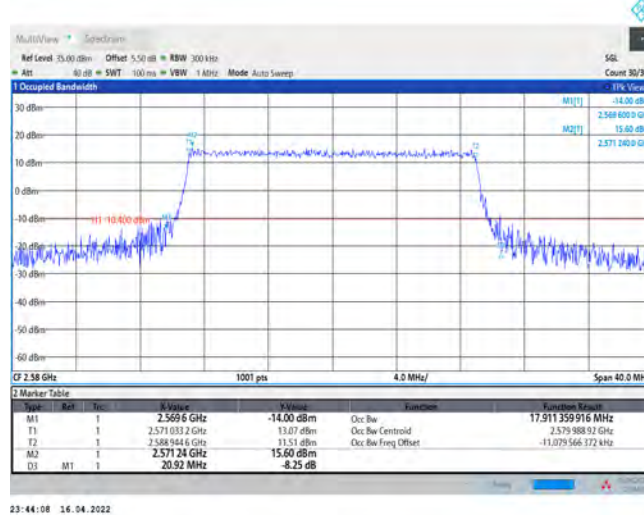


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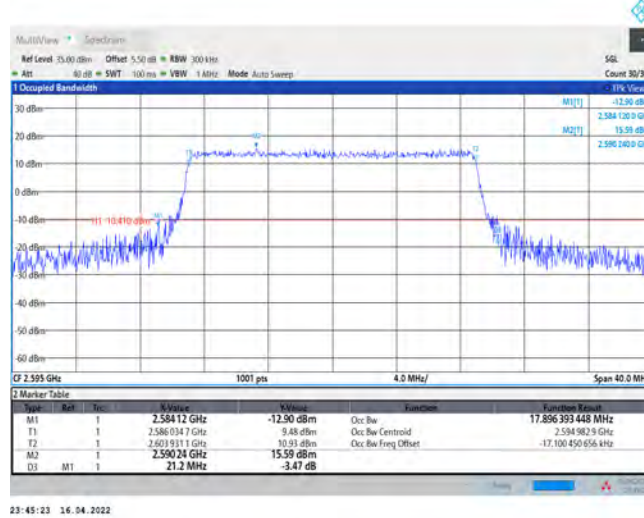




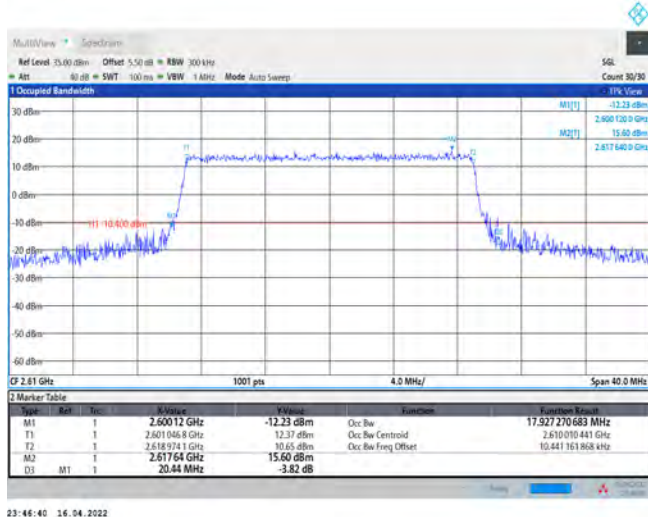
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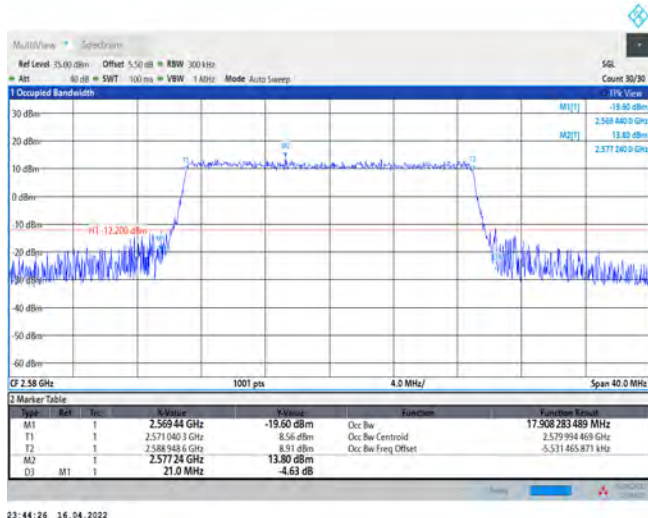


Band38-20MHz-64QAM-38150-100RB#0



23-44-40 16.04.2022

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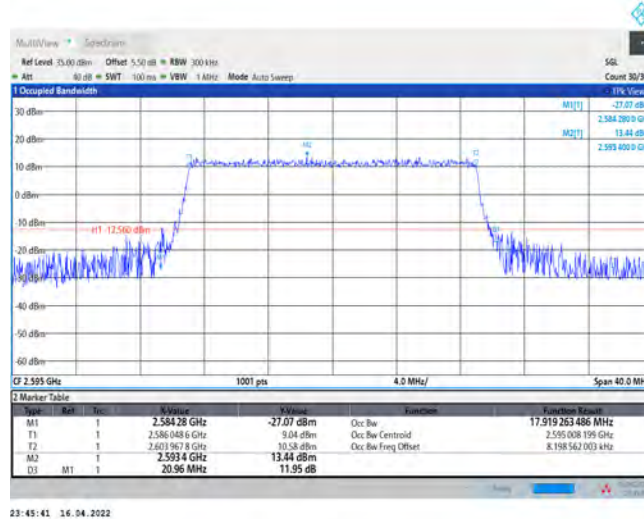


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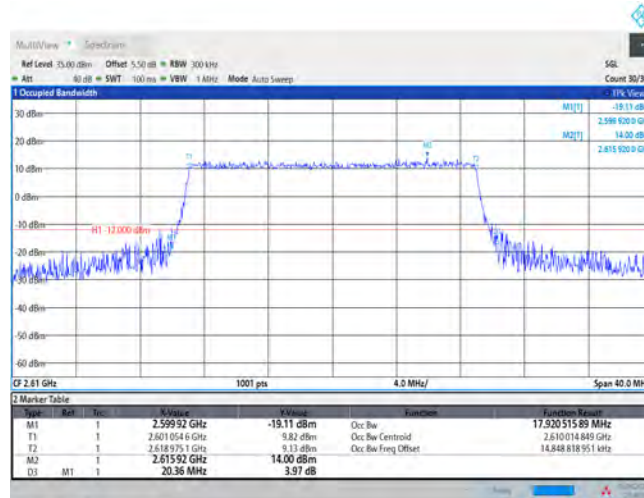
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Band38-20MHz-256QAM-38000-100RB#0



23:45:41 16.04.2022

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



23:46:58 16.04.2022



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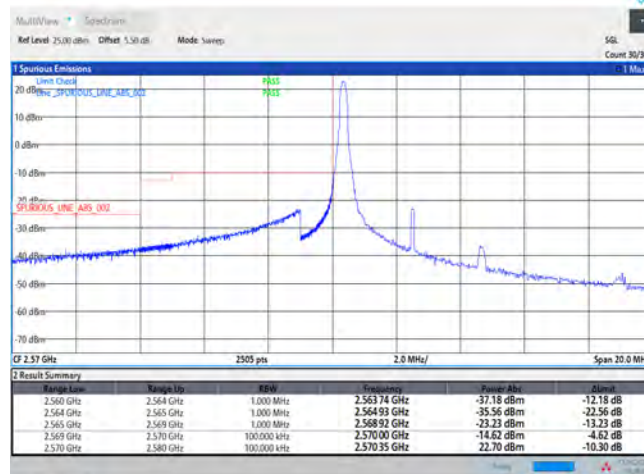
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Band Edge

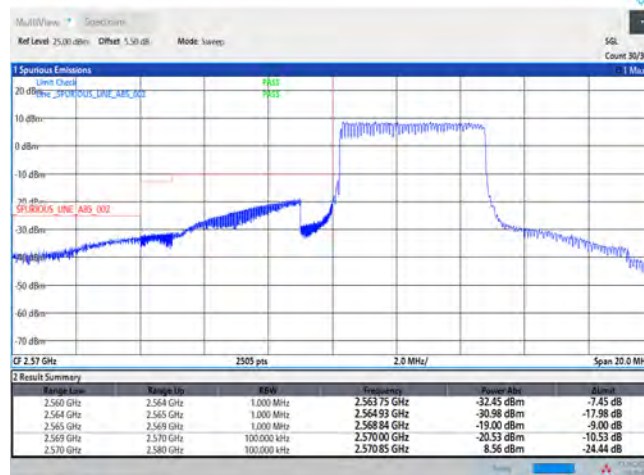
Test Graphs

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



18:38:09 17.04.2022

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



18:39:44 17.04.2022



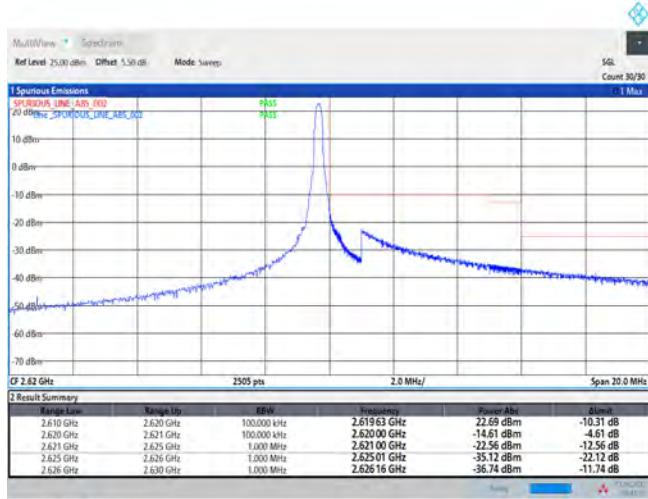
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Band38-5MHz-QPSK-38225-1RB#24



18:41:37 17.04.2022

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



18:43:12 17.04.2022

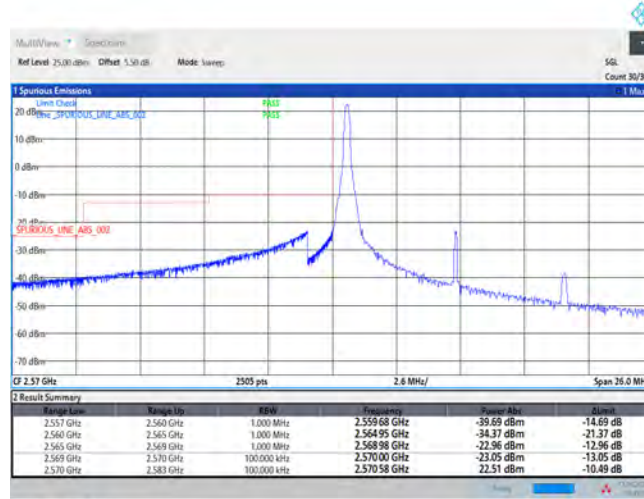


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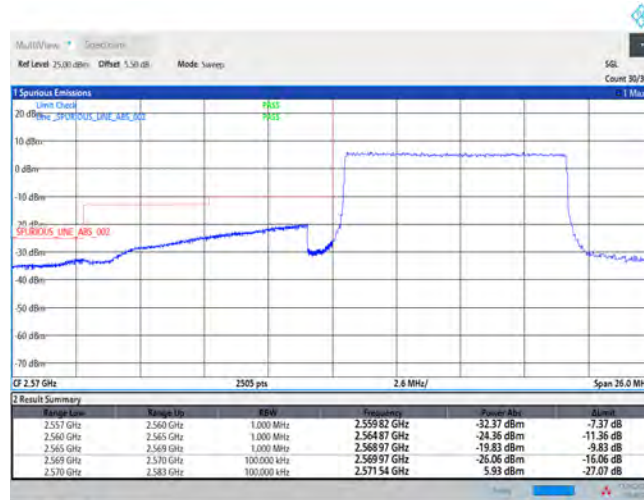
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Band38-10MHz-QPSK-37800-1RB#0



18:45:11 17.04.2022

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



18:46:17 17.04.2022



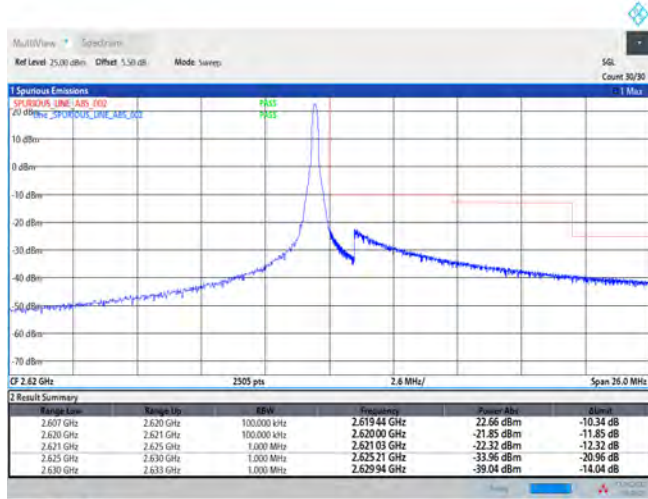
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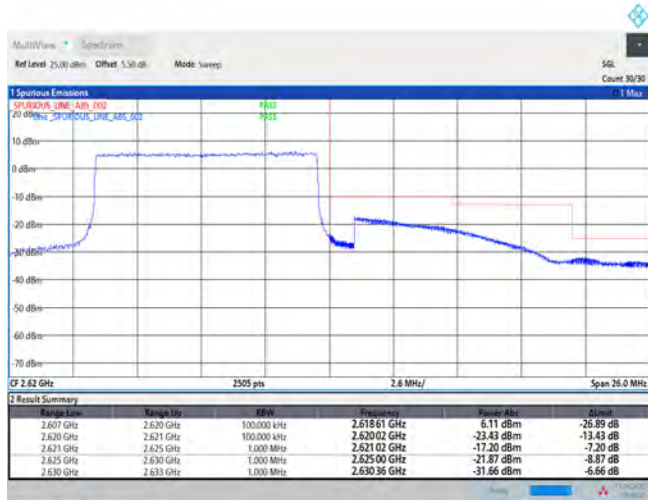
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Band38-10MHz-QPSK-38200-1RB#49



18:48:26 17.04.2022

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



18:49:32 17.04.2022

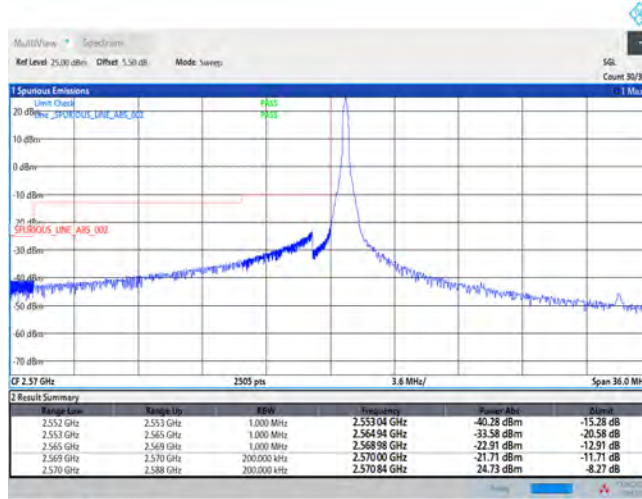


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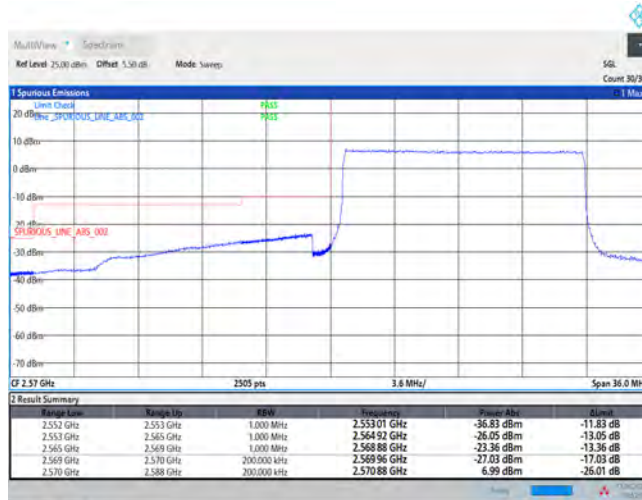
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Band38-15MHz-QPSK-37825-1RB#0



18:51:33 17.04.2022

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



18:52:40 17.04.2022



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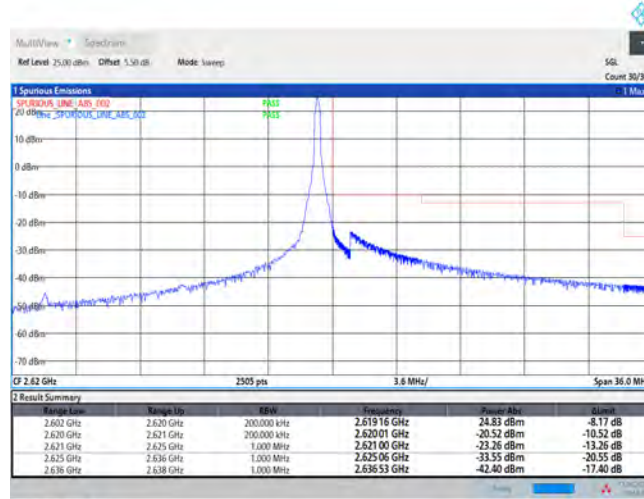
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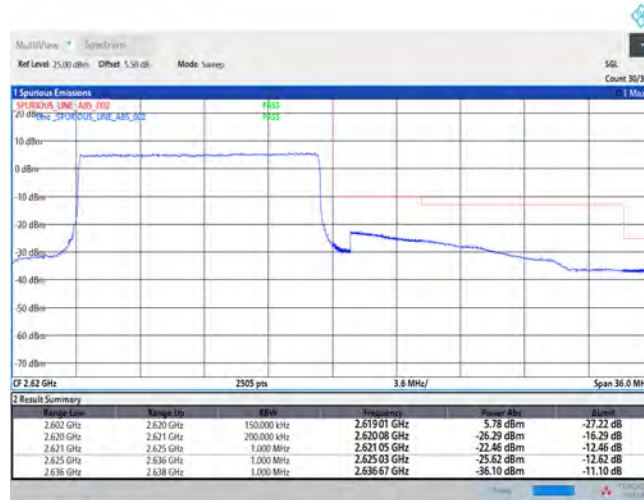


Band38-15MHz-QPSK-38175-1RB#74



18:54:47 17.04.2022

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



18:55:53 17.04.2022



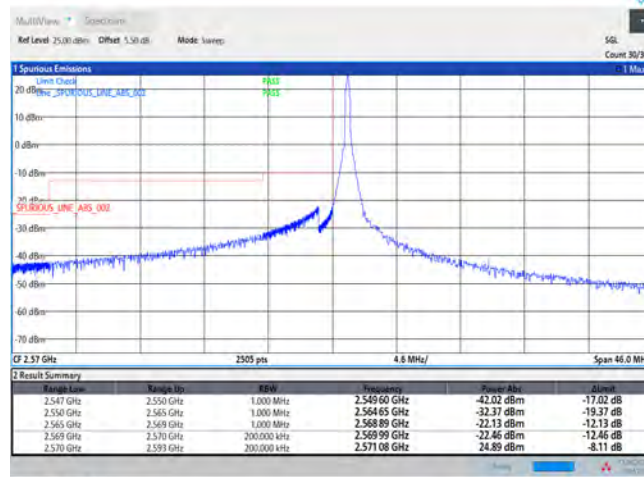
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Band38-20MHz-QPSK-37850-1RB#0



18:57:35 17.04.2022

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



18:58:41 17.04.2022



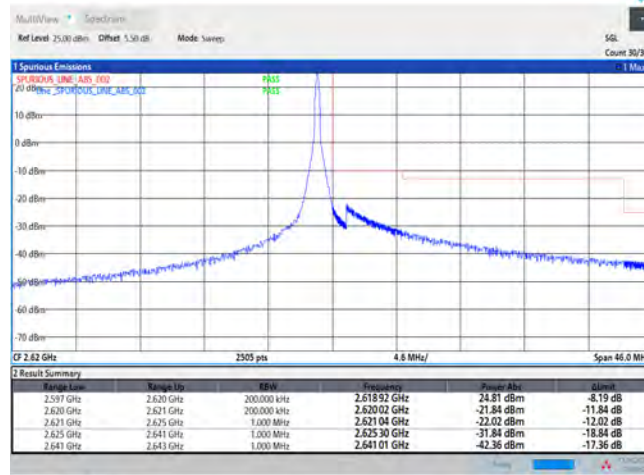
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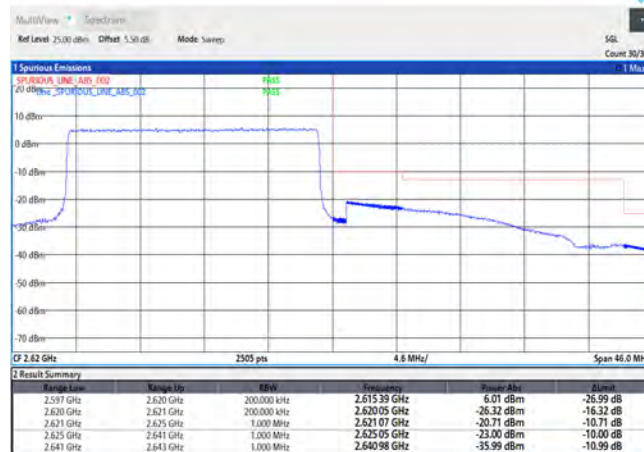
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Band38-20MHz-QPSK-38150-1RB#99



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



19-01-29 17.04.2022



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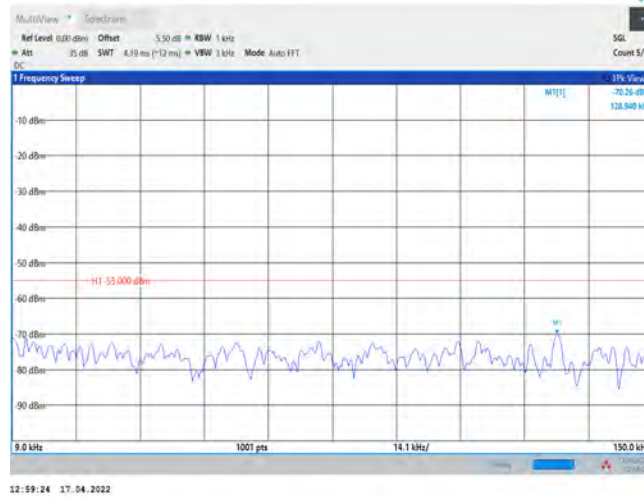
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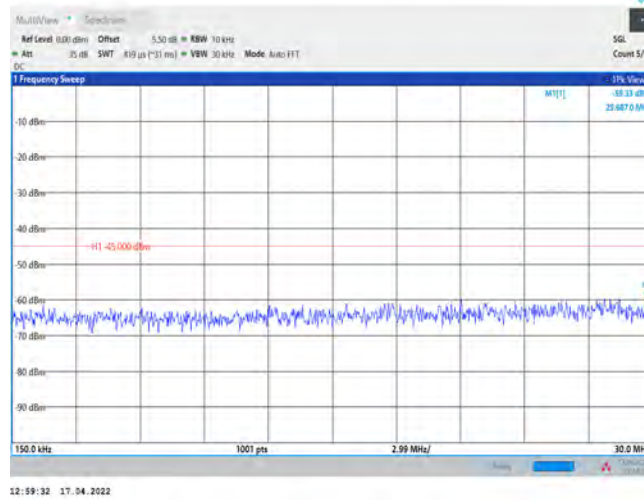
## Conducted Spurious Emission

### Test Graphs

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



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

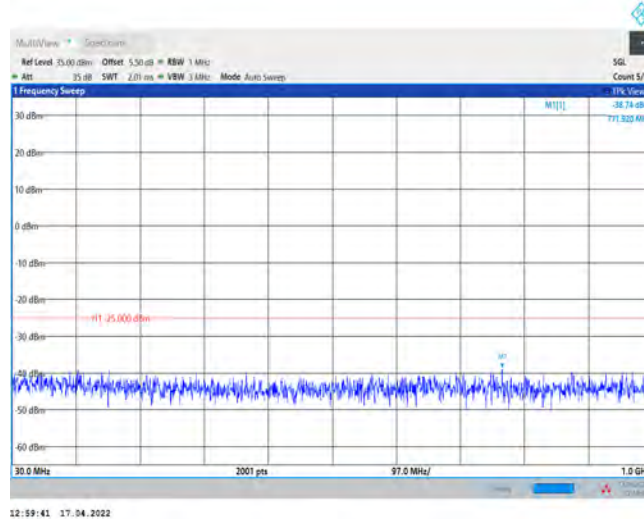


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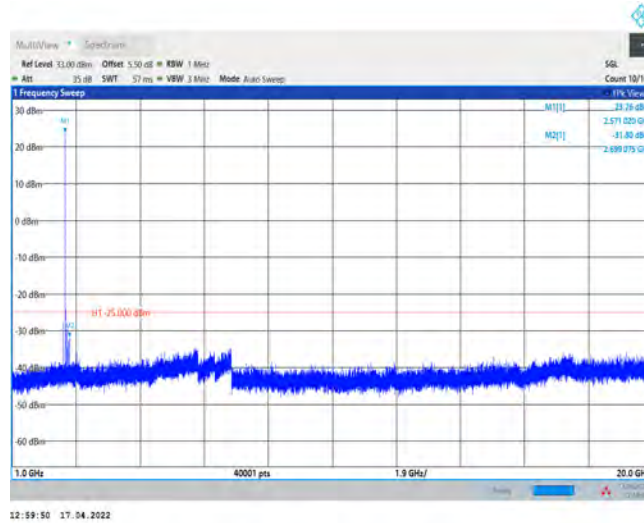
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



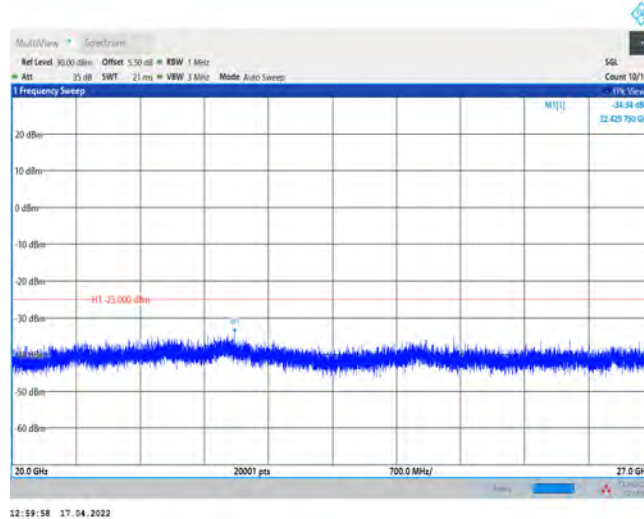
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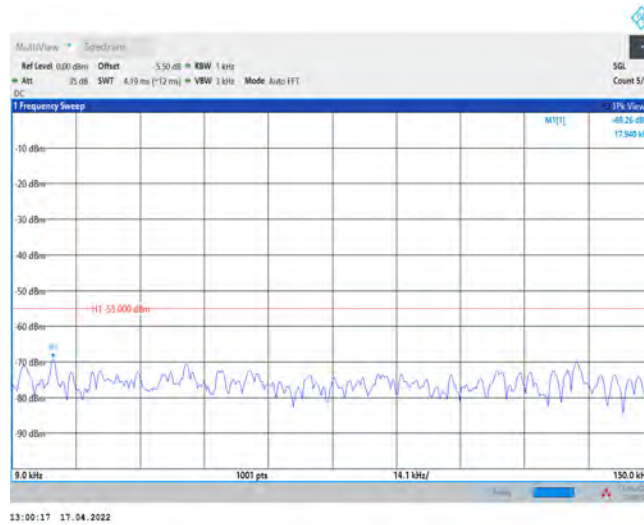
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



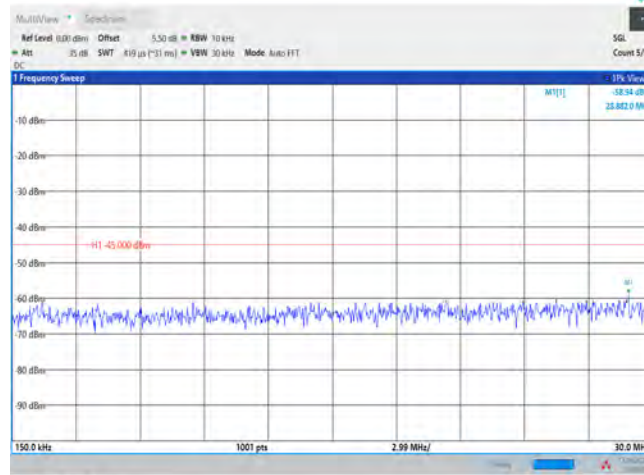
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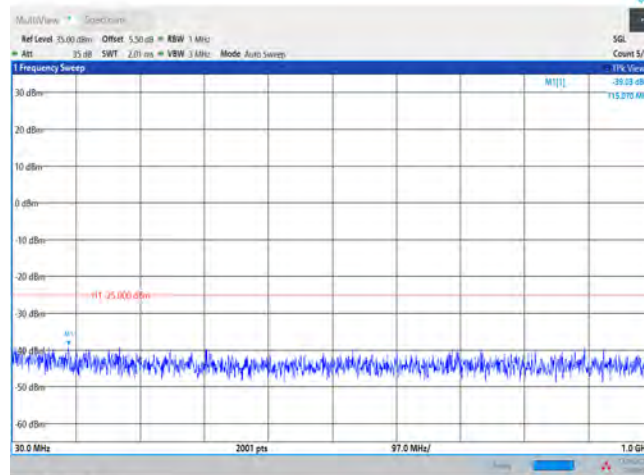
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



13:00:25 17.04.2022

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



13:00:34 17.04.2022



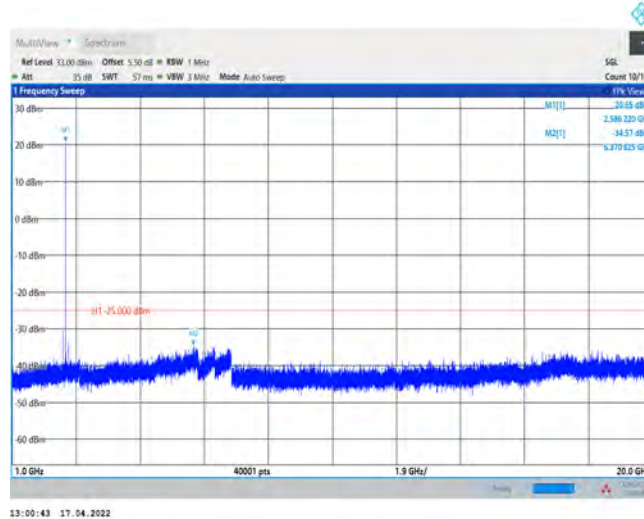
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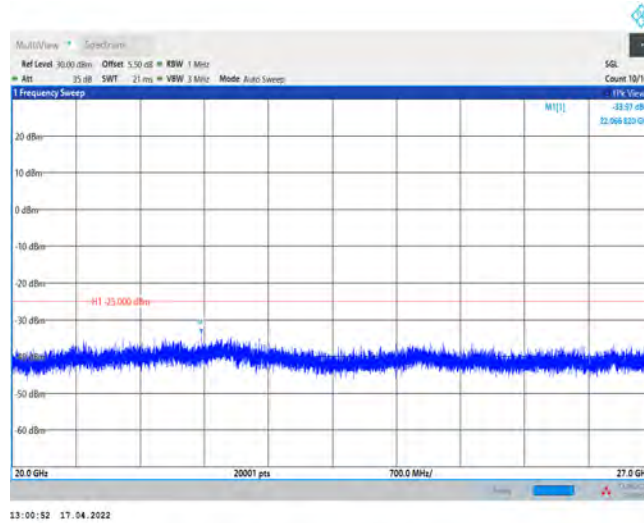
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



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



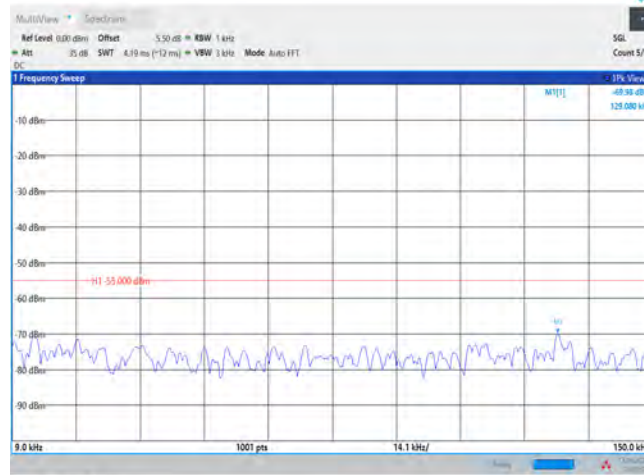
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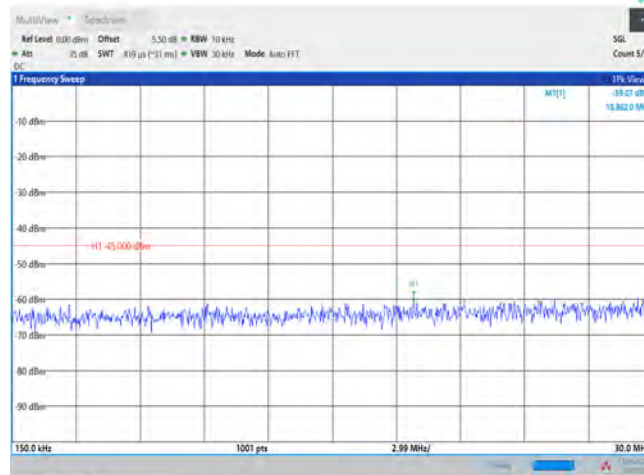


Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



13:01:11 17.04.2022

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



13:01:19 17.04.2022



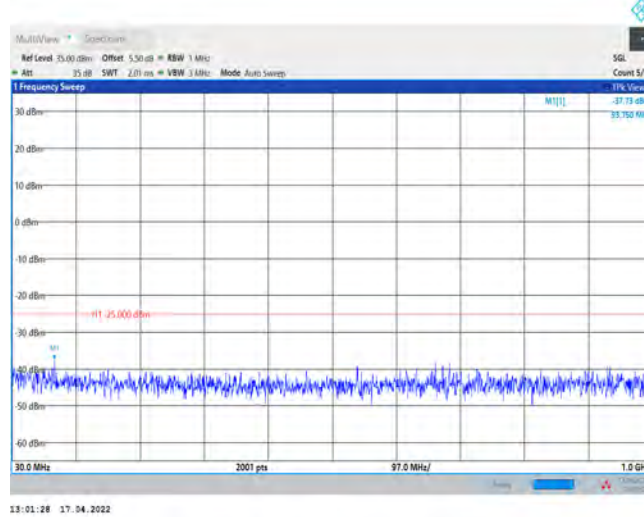
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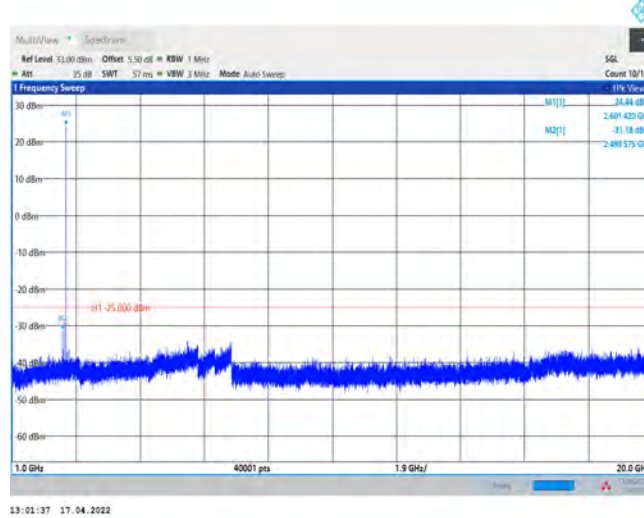
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



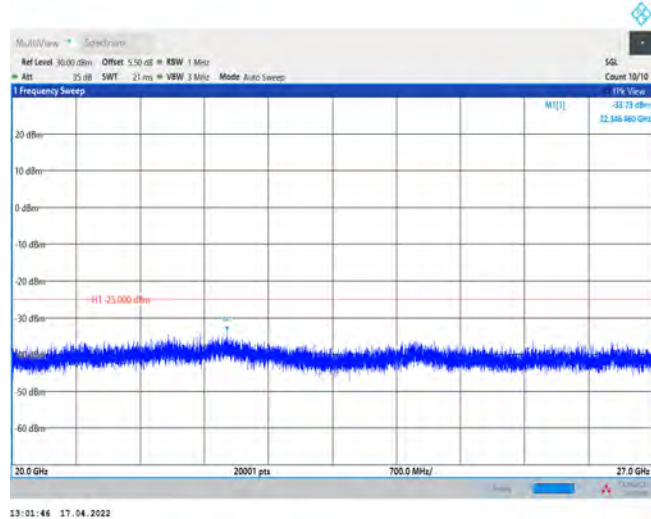
Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



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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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	51.13	-106.89	-55.76	-25.00	30.76	263	142	Horizontal
2	7713.27	49.37	-99.56	-50.19	-25.00	25.19	251	223	Horizontal
3	10284.36	43.75	-93.24	-49.49	-25.00	24.49	174	9	Horizontal
4	12855.45	42.90	-90.76	-47.86	-25.00	22.86	162	84	Horizontal
5	15426.54	41.68	-90.57	-48.89	-25.00	23.89	241	2	Horizontal
6	17997.63	39.12	-84.09	-44.97	-25.00	19.97	263	270	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	51.91	-106.89	-54.98	-25.00	29.98	263	96	Vertical
2	7713.27	50.66	-99.56	-48.90	-25.00	23.90	241	57	Vertical
3	10284.36	44.40	-93.24	-48.84	-25.00	23.84	176	131	Vertical
4	12855.45	43.81	-90.76	-46.95	-25.00	21.95	264	294	Vertical
5	15426.54	41.23	-90.57	-49.34	-25.00	24.34	188	186	Vertical
6	17997.63	39.38	-84.09	-44.71	-25.00	19.71	183	255	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5172.18	49.85	-106.85	-57.00	-25.00	32.00	263	95	Horizontal
2	7758.27	49.00	-99.15	-50.15	-25.00	25.15	251	131	Horizontal
3	10344.36	42.36	-93.05	-50.69	-25.00	25.69	175	38	Horizontal
4	12930.45	43.00	-90.61	-47.61	-25.00	22.61	265	357	Horizontal
5	15516.54	42.11	-90.85	-48.74	-25.00	23.74	241	71	Horizontal
6	17865	42.41	-84.17	-41.76	-25.00	16.76	178	176	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5172.18	51.83	-106.85	-55.02	-25.00	30.02	362	127	Vertical
2	7758.27	47.96	-99.15	-51.19	-25.00	26.19	251	71	Vertical
3	10344.36	43.14	-93.05	-49.91	-25.00	24.91	186	9	Vertical
4	12930.45	42.69	-90.61	-47.92	-25.00	22.92	264	23	Vertical
5	15516.54	40.78	-90.85	-50.07	-25.00	25.07	176	178	Vertical
6	17907.8571	42.70	-84.12	-41.42	-25.00	16.42	263	94	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202.18	50.20	-106.81	-56.61	-25.00	31.61	263	96	Horizontal
2	7803.27	49.20	-98.77	-49.57	-25.00	24.57	251	339	Horizontal
3	10404.36	42.63	-92.78	-50.15	-25.00	25.15	174	304	Horizontal
4	13005.45	43.96	-90.54	-46.58	-25.00	21.58	186	9	Horizontal
5	15606.54	42.97	-90.76	-47.79	-25.00	22.79	264	2	Horizontal
6	17865	42.58	-84.17	-41.59	-25.00	16.59	148	62	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202.18	53.62	-106.81	-53.19	-25.00	28.19	263	96	Vertical
2	7803.27	48.79	-98.77	-49.98	-25.00	24.98	251	71	Vertical
3	10404.36	42.67	-92.78	-50.11	-25.00	25.11	174	338	Vertical
4	13005.45	42.88	-90.54	-47.66	-25.00	22.66	263	254	Vertical
5	15606.54	41.57	-90.76	-49.19	-25.00	24.19	241	178	Vertical
6	17854.2857	41.99	-84.19	-42.20	-25.00	17.20	268	164	Vertical



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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

The End



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