

Report No.: SUAR/2021/C000301

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Appendix



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Effective (Isotropic) Radiated Power Output Data

Test Result

ANT2:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP(dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	24.94	23.34	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	25.04	23.44	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	24.91	23.31	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	24.03	22.43	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	25.00	23.40	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	25.05	23.45	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	24.96	23.36	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	24.03	22.43	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	24.99	23.39	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	25.01	23.41	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	24.88	23.28	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	24.07	22.47	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	24.15	22.55	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	24.13	22.53	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	24.04	22.44	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	23.15	21.55	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	24.18	22.58	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	24.38	22.78	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	24.16	22.56	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	23.08	21.48	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	24.15	22.55	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	24.37	22.77	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	24.42	22.82	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	23.08	21.48	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	22.84	21.24	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	22.95	21.35	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	22.84	21.24	33	PASS



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Band38	5MHz	64QAM	37775	25RB#0	21.95	20.35	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	22.95	21.35	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	22.97	21.37	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	22.91	21.31	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	21.96	20.36	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	22.92	21.32	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	22.95	21.35	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	22.79	21.19	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	21.98	20.38	33	PASS
Band38	5MHz	256QAM	37775	1RB#0	22.09	20.49	33	PASS
Band38	5MHz	256QAM	37775	1RB#12	22.05	20.45	33	PASS
Band38	5MHz	256QAM	37775	1RB#24	21.95	20.35	33	PASS
Band38	5MHz	256QAM	37775	25RB#0	21.08	19.48	33	PASS
Band38	5MHz	256QAM	38000	1RB#0	22.09	20.49	33	PASS
Band38	5MHz	256QAM	38000	1RB#12	22.31	20.71	33	PASS
Band38	5MHz	256QAM	38000	1RB#24	22.07	20.47	33	PASS
Band38	5MHz	256QAM	38000	25RB#0	21.03	19.43	33	PASS
Band38	5MHz	256QAM	38225	1RB#0	22.10	20.50	33	PASS
Band38	5MHz	256QAM	38225	1RB#12	22.29	20.69	33	PASS
Band38	5MHz	256QAM	38225	1RB#24	22.34	20.74	33	PASS
Band38	5MHz	256QAM	38225	25RB#0	20.98	19.38	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	24.95	23.35	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	24.86	23.26	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	24.89	23.29	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	24.06	22.46	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	24.85	23.25	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	24.97	23.37	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	25.05	23.45	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	24.12	22.52	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.97	23.37	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	24.95	23.35	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	24.92	23.32	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	24.02	22.42	33	PASS



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Band38	10MHz	16QAM	37800	1RB#0	23.98	22.38	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	24.02	22.42	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	24.03	22.43	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	23.14	21.54	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	24.15	22.55	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	24.09	22.49	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	24.12	22.52	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	23.11	21.51	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	24.16	22.56	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	24.13	22.53	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	24.00	22.40	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	23.10	21.50	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	22.84	21.24	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	22.96	21.36	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	22.86	21.26	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	21.96	20.36	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	22.93	21.33	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	22.97	21.37	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	22.91	21.31	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	21.94	20.34	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	22.90	21.30	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	22.92	21.32	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	22.81	21.21	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	22.02	20.42	33	PASS
Band38	10MHz	256QAM	37800	1RB#0	22.09	20.49	33	PASS
Band38	10MHz	256QAM	37800	1RB#24	22.07	20.47	33	PASS
Band38	10MHz	256QAM	37800	1RB#49	21.99	20.39	33	PASS
Band38	10MHz	256QAM	37800	50RB#0	21.06	19.46	33	PASS
Band38	10MHz	256QAM	38000	1RB#0	22.08	20.48	33	PASS
Band38	10MHz	256QAM	38000	1RB#24	22.28	20.68	33	PASS
Band38	10MHz	256QAM	38000	1RB#49	22.06	20.46	33	PASS
Band38	10MHz	256QAM	38000	50RB#0	21.03	19.43	33	PASS
Band38	10MHz	256QAM	38200	1RB#0	22.05	20.45	33	PASS



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Band38	10MHz	256QAM	38200	1RB#24	22.29	20.69	33	PASS
Band38	10MHz	256QAM	38200	1RB#49	22.34	20.74	33	PASS
Band38	10MHz	256QAM	38200	50RB#0	20.99	19.39	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	24.87	23.27	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	24.80	23.20	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	24.94	23.34	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	23.99	22.39	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	24.79	23.19	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	24.96	23.36	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	25.00	23.40	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	23.90	22.30	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	24.92	23.32	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	24.77	23.17	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	24.86	23.26	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	23.90	22.30	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	24.05	22.45	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	23.96	22.36	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	24.03	22.43	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.99	21.39	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	24.02	22.42	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	23.98	22.38	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	24.00	22.40	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	22.92	21.32	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	23.95	22.35	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	24.02	22.42	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	23.94	22.34	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	23.00	21.40	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	22.88	21.28	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	22.94	21.34	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	22.82	21.22	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	21.95	20.35	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	22.91	21.31	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	23.00	21.40	33	PASS



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Band38	15MHz	64QAM	38000	1RB#74	22.90	21.30	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	21.97	20.37	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	22.93	21.33	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	22.91	21.31	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	22.82	21.22	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	22.02	20.42	33	PASS
Band38	15MHz	256QAM	37825	1RB#0	22.10	20.50	33	PASS
Band38	15MHz	256QAM	37825	1RB#38	22.05	20.45	33	PASS
Band38	15MHz	256QAM	37825	1RB#74	21.99	20.39	33	PASS
Band38	15MHz	256QAM	37825	75RB#0	21.06	19.46	33	PASS
Band38	15MHz	256QAM	38000	1RB#0	22.08	20.48	33	PASS
Band38	15MHz	256QAM	38000	1RB#38	22.30	20.70	33	PASS
Band38	15MHz	256QAM	38000	1RB#74	22.09	20.49	33	PASS
Band38	15MHz	256QAM	38000	75RB#0	20.98	19.38	33	PASS
Band38	15MHz	256QAM	38175	1RB#0	22.09	20.49	33	PASS
Band38	15MHz	256QAM	38175	1RB#38	22.30	20.70	33	PASS
Band38	15MHz	256QAM	38175	1RB#74	22.33	20.73	33	PASS
Band38	15MHz	256QAM	38175	75RB#0	21.00	19.40	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	24.94	23.34	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	24.85	23.25	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	25.10	23.50	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	24.01	22.41	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	25.16	23.56	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	25.03	23.43	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	25.11	23.51	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	24.07	22.47	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	25.08	23.48	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	25.00	23.40	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	25.06	23.46	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	24.05	22.45	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	24.25	22.65	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	24.16	22.56	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	24.19	22.59	33	PASS



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Band38	20MHz	16QAM	37850	1RB#99	23.06	21.46	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	24.16	22.56	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	24.10	22.50	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	24.27	22.67	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	23.13	21.53	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	24.18	22.58	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	24.22	22.62	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	24.18	22.58	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	23.18	21.58	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	23.02	21.42	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	23.15	21.55	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	23.04	21.44	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	22.12	20.52	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	23.10	21.50	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	23.13	21.53	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	23.05	21.45	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	22.16	20.56	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	23.07	21.47	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	23.10	21.50	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	22.97	21.37	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	22.15	20.55	33	PASS
Band38	20MHz	256QAM	37850	100RB#0	22.28	20.68	33	PASS
Band38	20MHz	256QAM	37850	1RB#0	22.25	20.65	33	PASS
Band38	20MHz	256QAM	37850	1RB#49	22.15	20.55	33	PASS
Band38	20MHz	256QAM	37850	1RB#99	21.26	19.66	33	PASS
Band38	20MHz	256QAM	38000	100RB#0	22.30	20.70	33	PASS
Band38	20MHz	256QAM	38000	1RB#0	22.47	20.87	33	PASS
Band38	20MHz	256QAM	38000	1RB#49	22.24	20.64	33	PASS
Band38	20MHz	256QAM	38000	1RB#99	21.17	19.57	33	PASS
Band38	20MHz	256QAM	38150	100RB#0	22.27	20.67	33	PASS
Band38	20MHz	256QAM	38150	1RB#0	22.45	20.85	33	PASS
Band38	20MHz	256QAM	38150	1RB#49	22.50	20.90	33	PASS
Band38	20MHz	256QAM	38150	1RB#99	21.20	19.60	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	7.78	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.36	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.24	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.88	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.82	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.70	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	10.20	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.98	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	10.08	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	10.04	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	10.18	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	10.12	13	PASS



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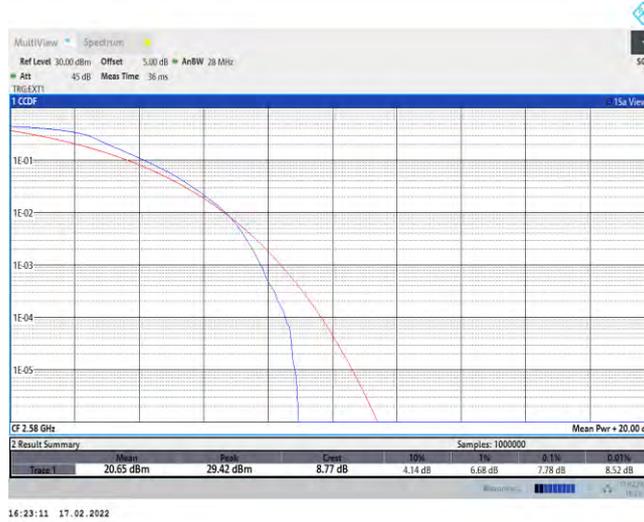
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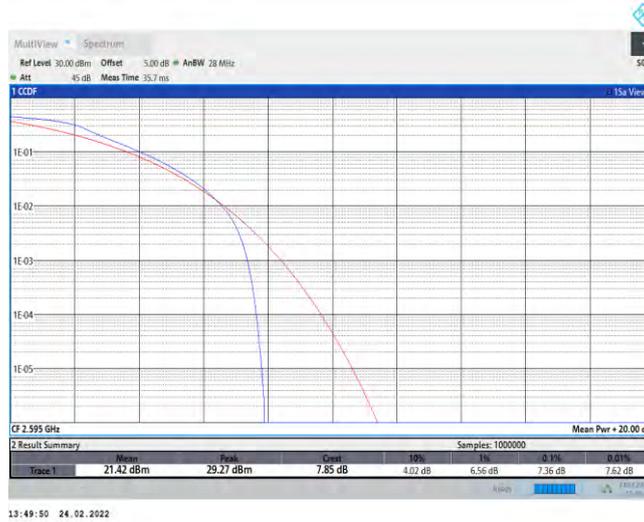
Test Graphs

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



16:23:11 17.02.2022

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



13:49:50 24.02.2022

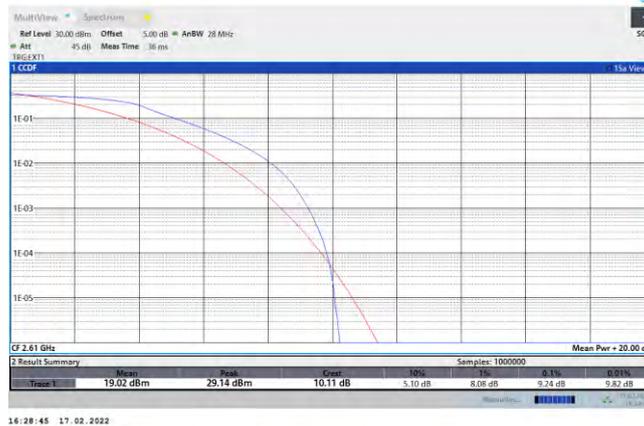


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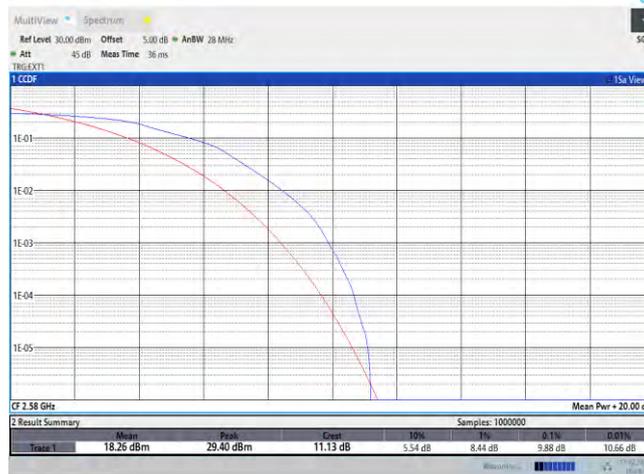
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Band38-20MHz-QPSK-38150-100RB#0



16:28:45 17.02.2022

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



16:24:42 17.02.2022



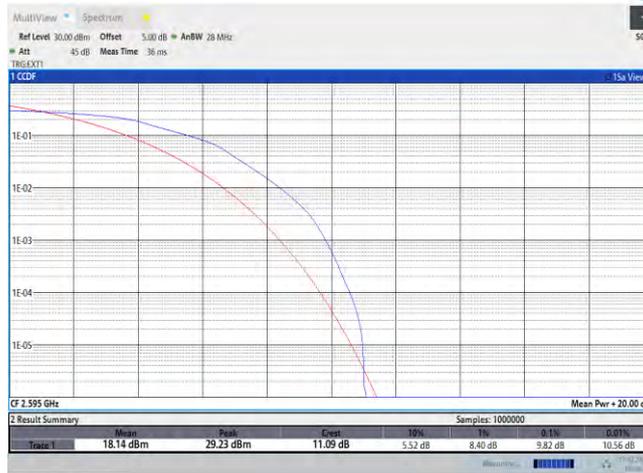
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Band38-20MHz-16QAM-38000-100RB#0



16:26:54 17.02.2022

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



16:29:18 17.02.2022



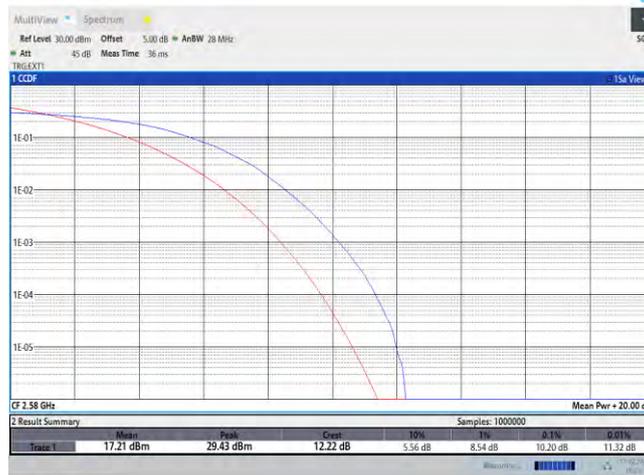
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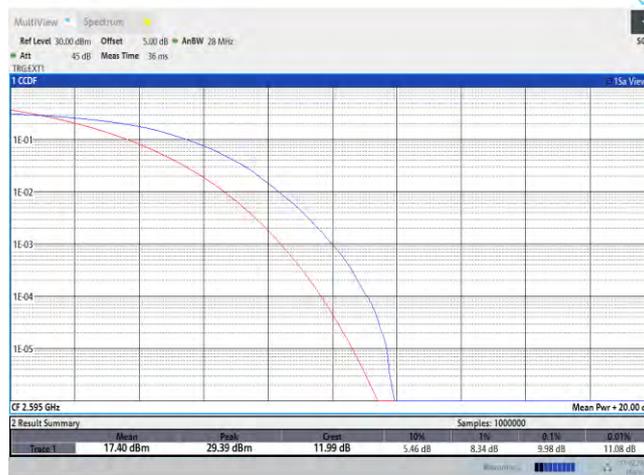
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Band38-20MHz-64QAM-37850-100RB#0



16:25:15 17.02.2022

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



16:27:39 17.02.2022



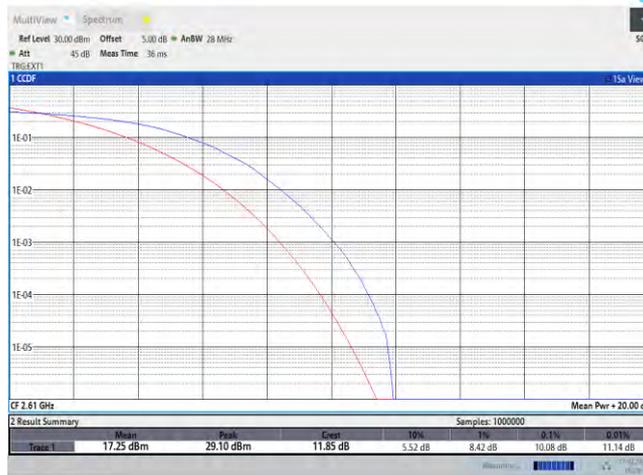
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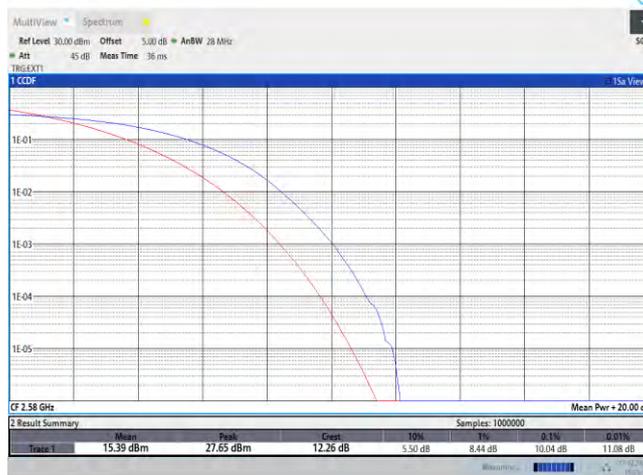
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Band38-20MHz-64QAM-38150-100RB#0



16:29:46 17.02.2022

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



16:28:57 17.02.2022

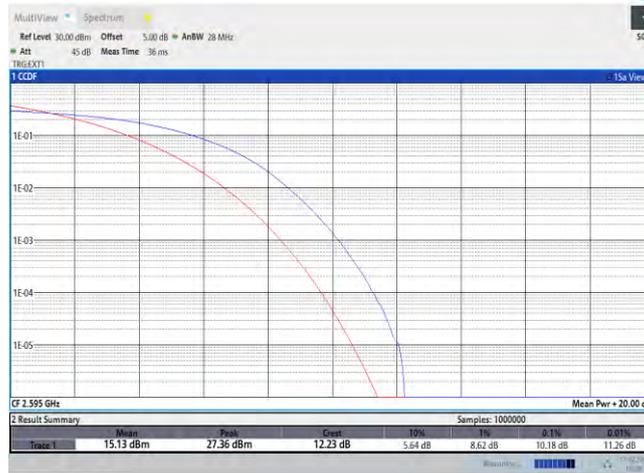


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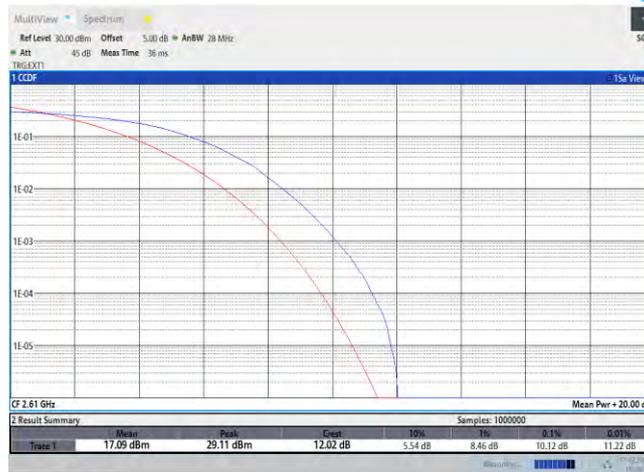
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Band38-20MHz-256QAM-38000-100RB#0



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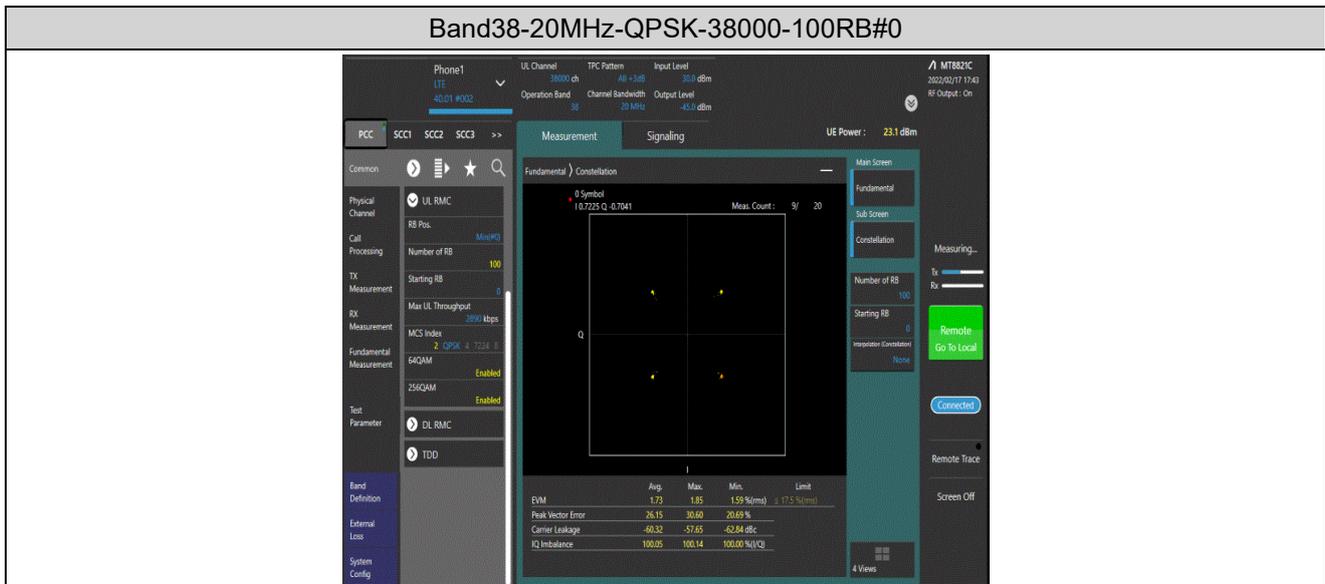
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Modulation Characteristics

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

Test Graphs



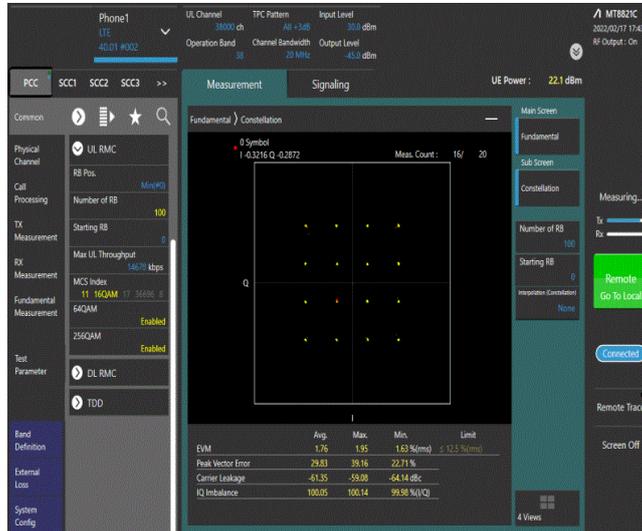
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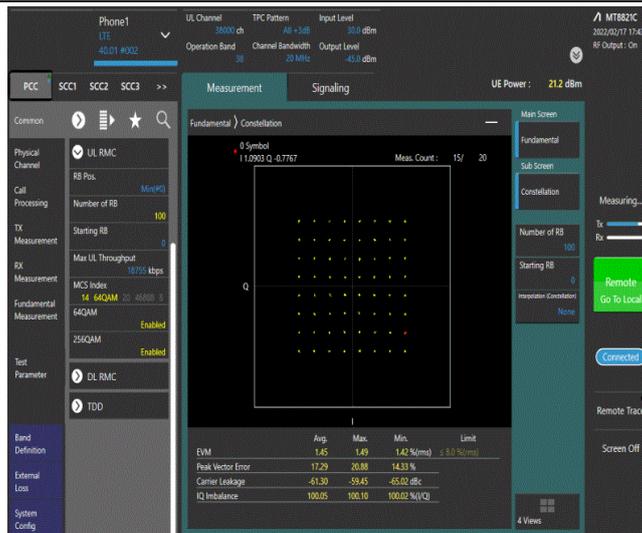
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Band38-20MHz-16QAM-38000-100RB#0



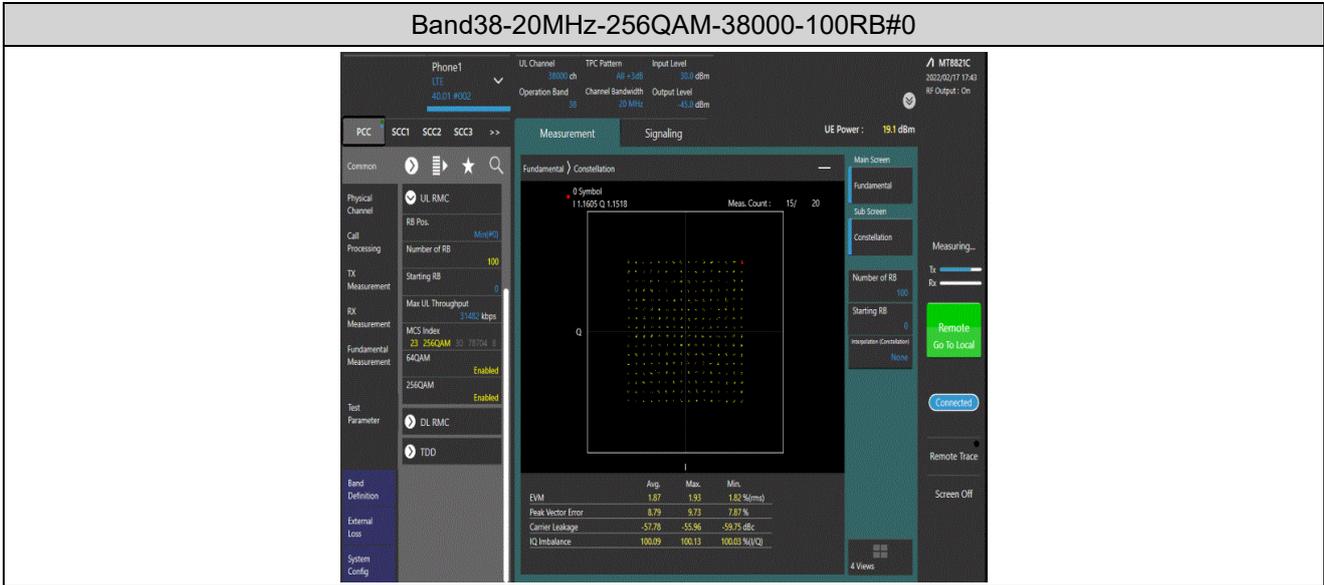
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.463	4.89	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.468	4.88	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.461	4.87	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.475	4.92	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.475	4.88	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.476	4.90	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.481	4.88	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.484	4.88	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.484	4.87	PASS
Band38	5MHz	256QAM	37775	25RB#0	4.461	4.96	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.463	4.98	PASS
Band38	5MHz	256QAM	38225	25RB#0	4.468	4.96	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9	9.74	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.908	9.74	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.924	9.64	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.924	9.58	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.933	9.64	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.929	9.58	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.921	9.60	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.932	9.74	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.948	9.62	PASS
Band38	10MHz	256QAM	37800	50RB#0	8.926	9.56	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.924	9.60	PASS
Band38	10MHz	256QAM	38200	50RB#0	8.929	9.68	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.466	15.99	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.452	15.99	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.487	15.72	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.439	14.82	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.432	15.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.43	14.67	PASS



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Report No.: SUAR/2021/C000301

Rev.: 01

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Band38	15MHz	64QAM	37825	75RB#0	13.443	14.73	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.463	15.72	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.479	14.73	PASS
Band38	15MHz	256QAM	37825	75RB#0	13.453	14.79	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.449	14.76	PASS
Band38	15MHz	256QAM	38175	75RB#0	13.451	14.70	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.816	18.72	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.883	20.32	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.909	20.32	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.856	20.24	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.855	19.52	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.859	19.36	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.885	19.92	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.897	20.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.887	20.08	PASS
Band38	20MHz	256QAM	37850	100RB#0	17.889	19.40	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.884	19.36	PASS
Band38	20MHz	256QAM	38150	100RB#0	17.878	19.80	PASS

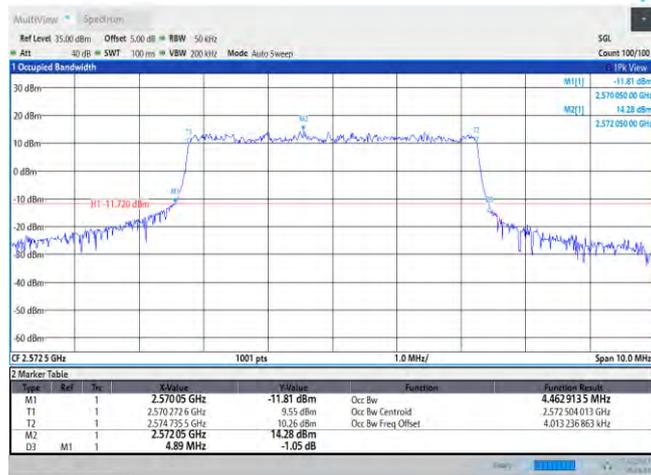


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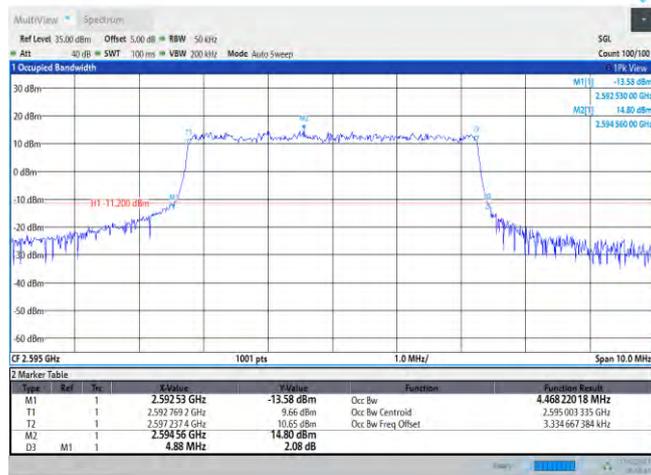
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Test Graphs

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



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

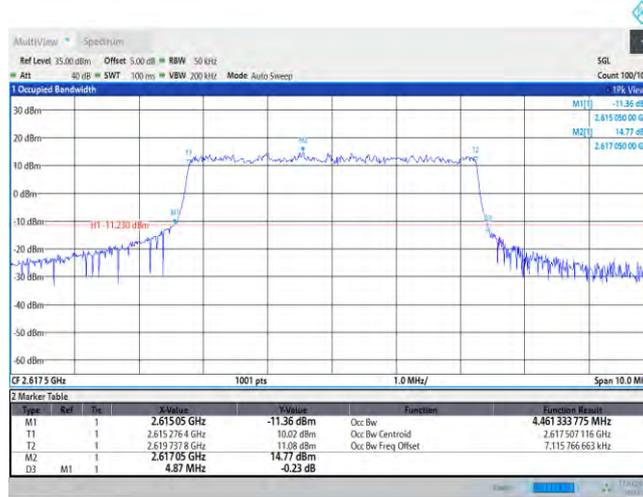


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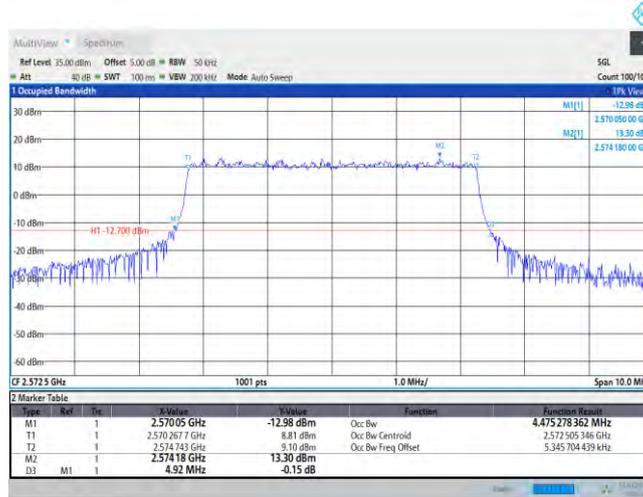
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Band38-5MHz-QPSK-38225-25RB#0



16:19:13 17.02.2022

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



18:25:09 15.02.2022

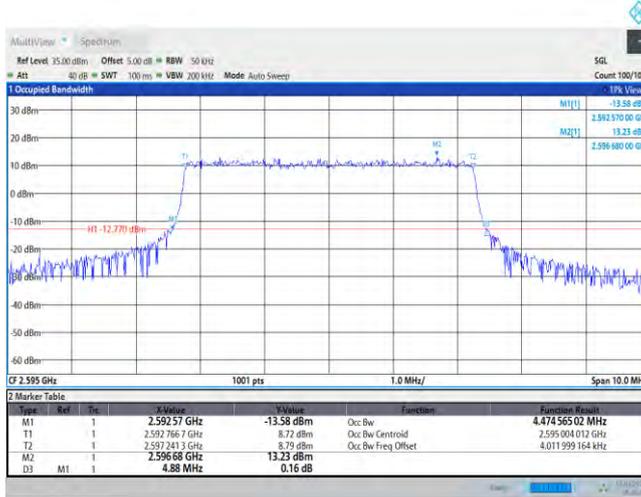


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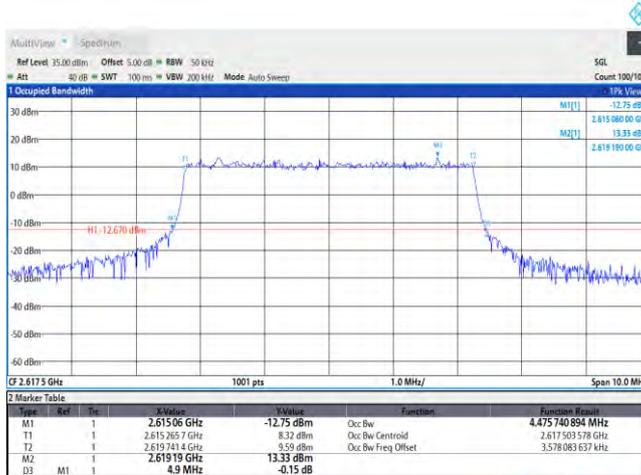
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Band38-5MHz-16QAM-38000-25RB#0



18:26:54 15.02.2022

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



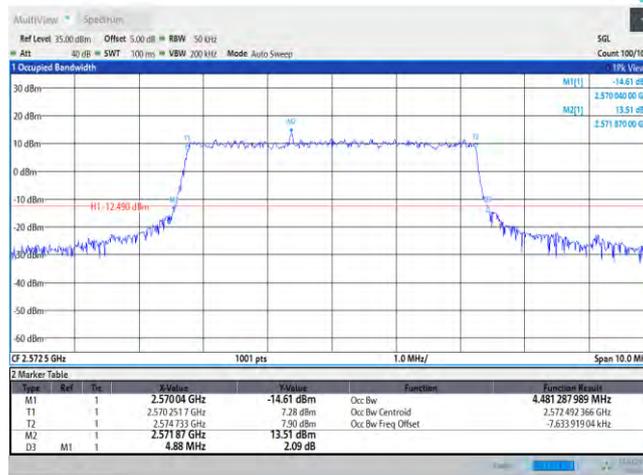
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Band38-5MHz-64QAM-37775-25RB#0



18:25:34 15.02.2022

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



18:27:19 15.02.2022



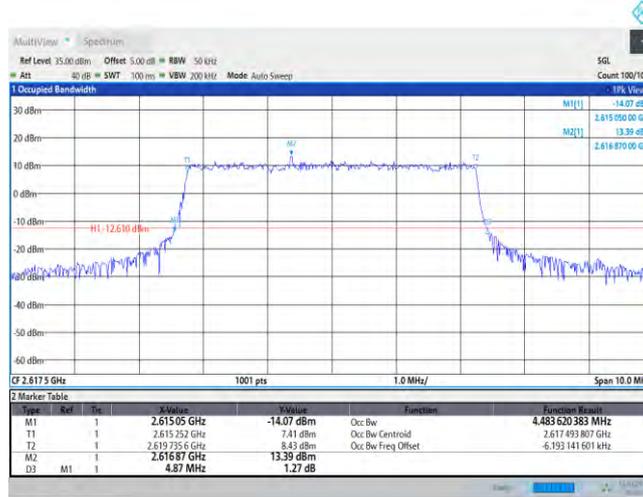
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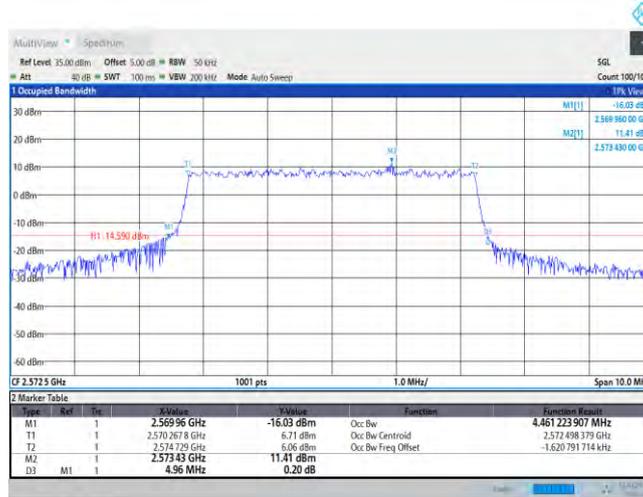
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Band38-5MHz-64QAM-38225-25RB#0



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



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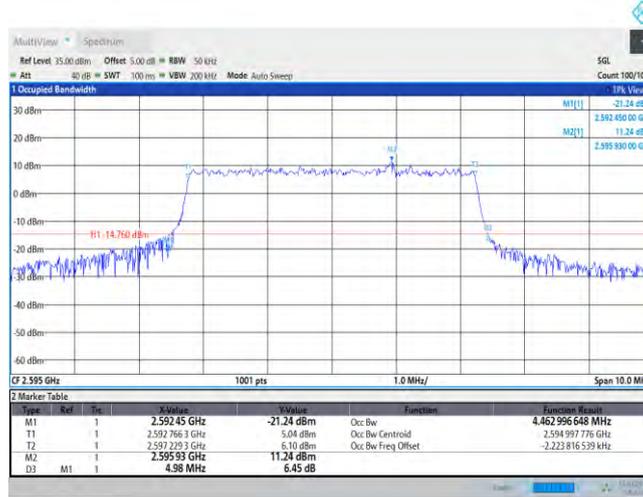


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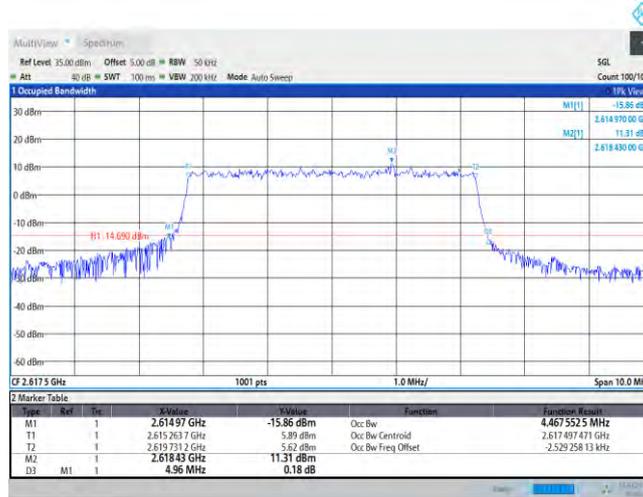
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Band38-5MHz-256QAM-38000-25RB#0



18:27:45 15.02.2022

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

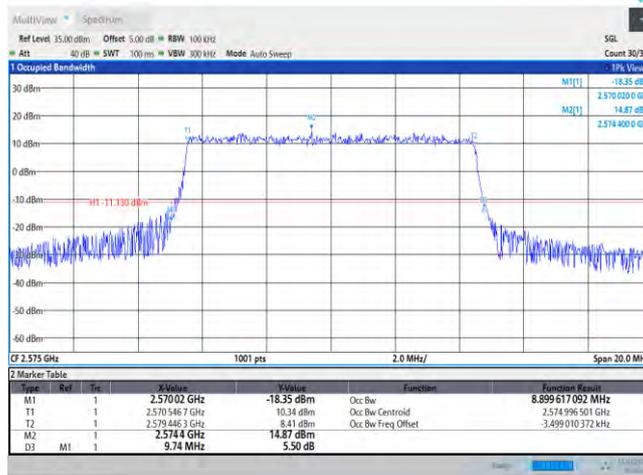


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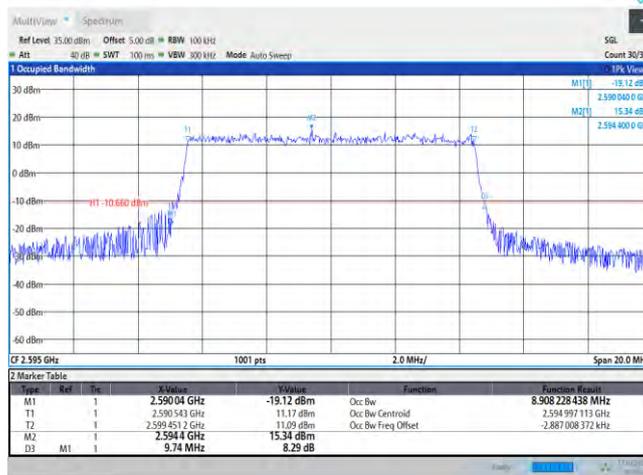
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Band38-10MHz-QPSK-37800-50RB#0



18:30:28 15.02.2022

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



16:19:53 17.02.2022

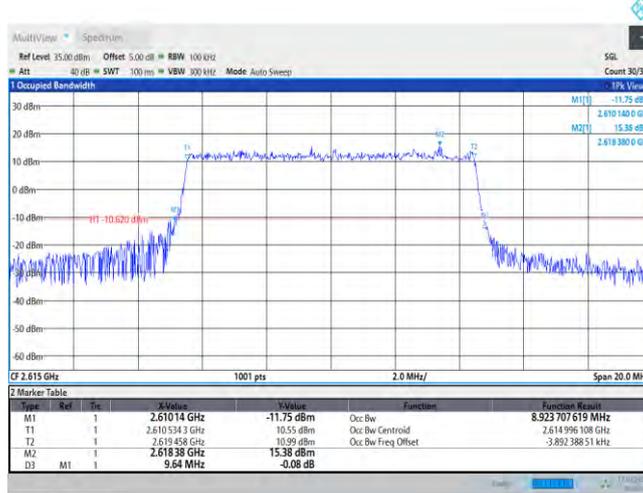


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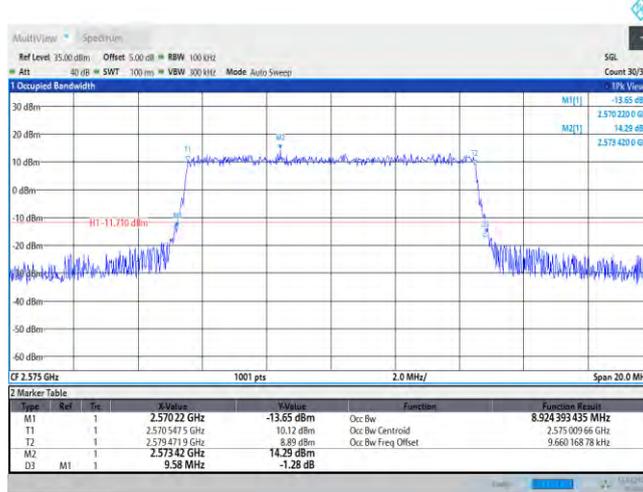
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Band38-10MHz-QPSK-38200-50RB#0



16:20:12 17. 02. 2022

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



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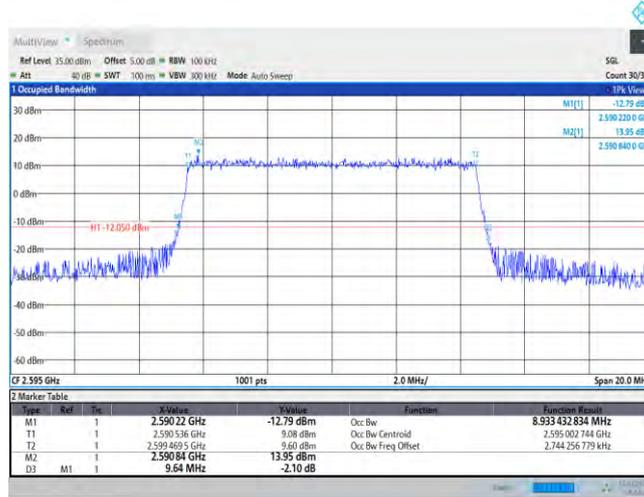


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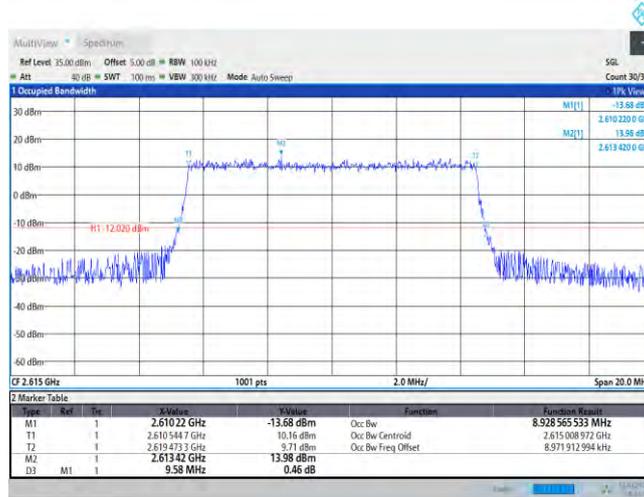
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Band38-10MHz-16QAM-38000-50RB#0



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



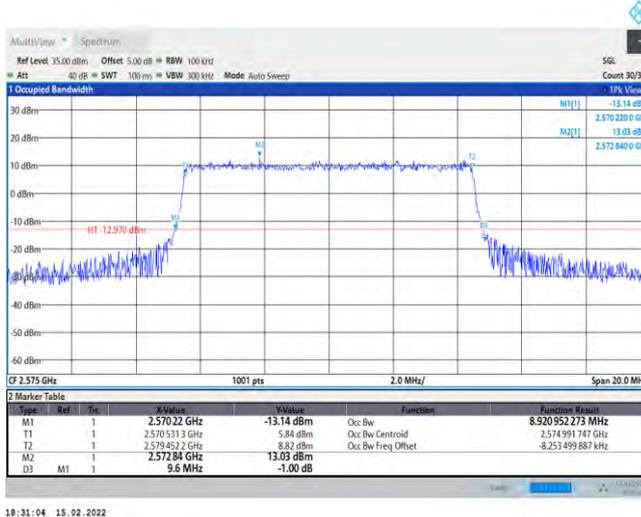
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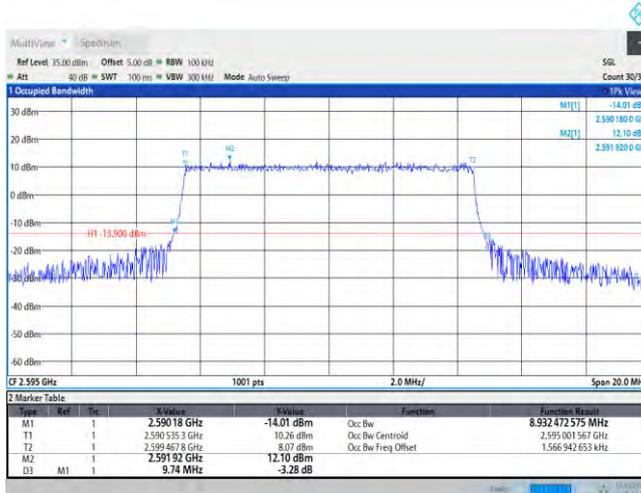
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Band38-10MHz-64QAM-37800-50RB#0



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



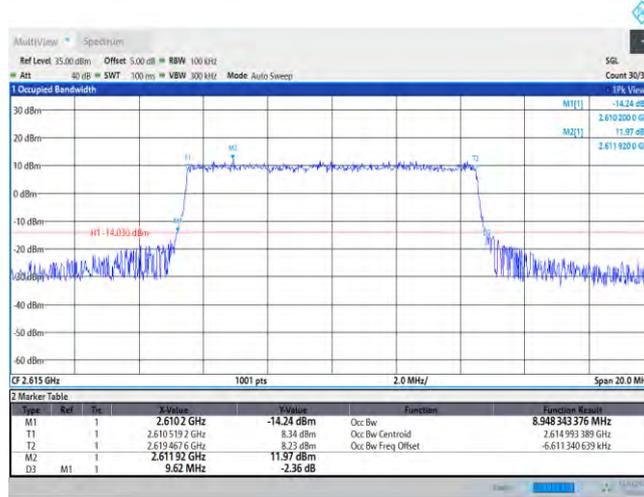
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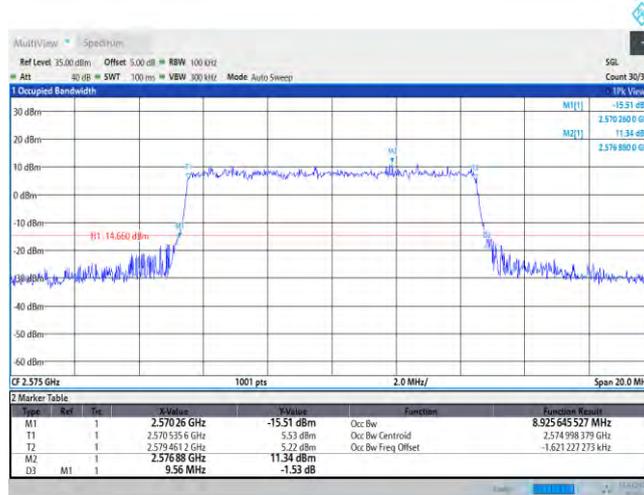
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Band38-10MHz-64QAM-38200-50RB#0



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



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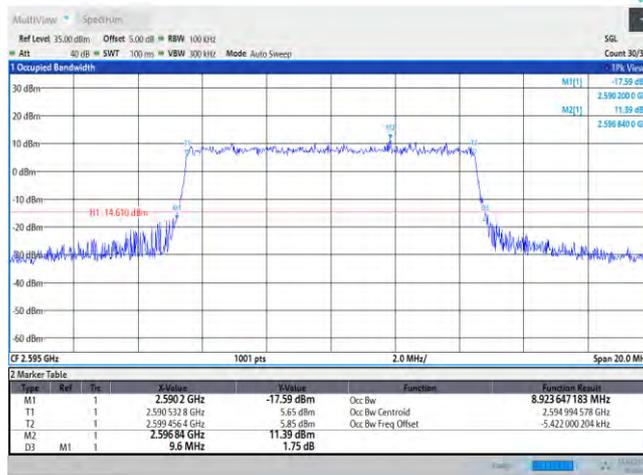


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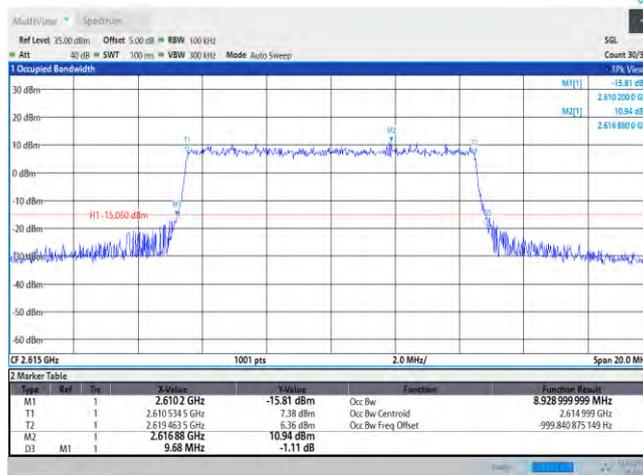
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Band38-10MHz-256QAM-38000-50RB#0



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



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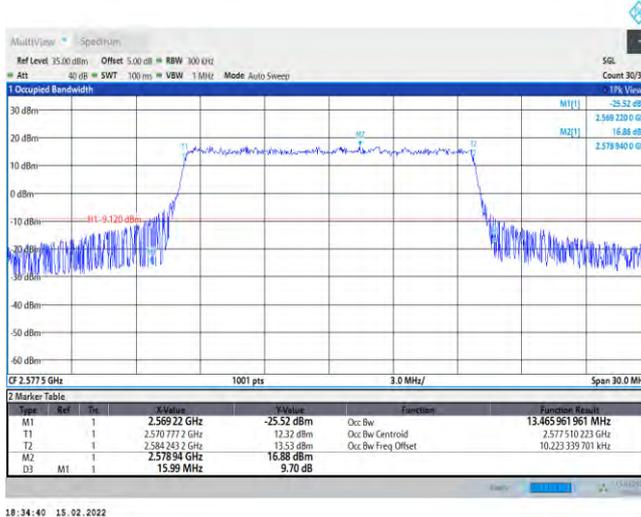


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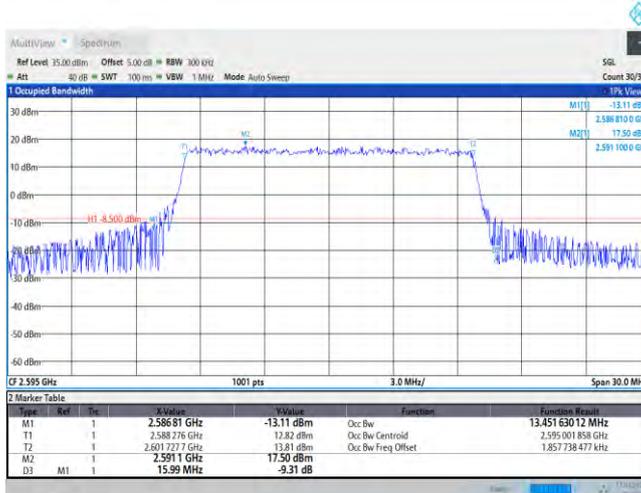
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Band38-15MHz-QPSK-37825-75RB#0



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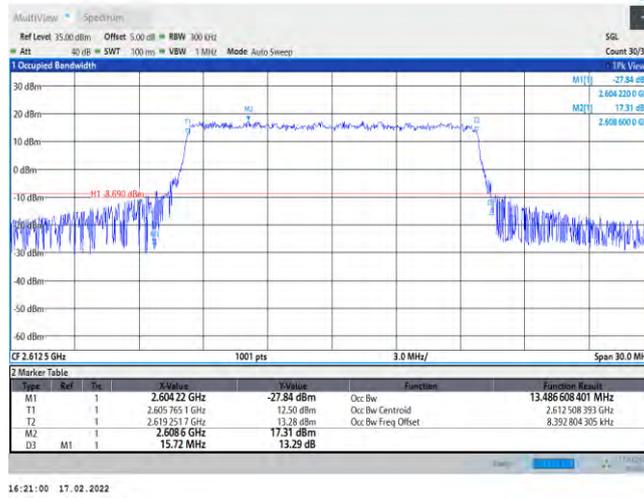
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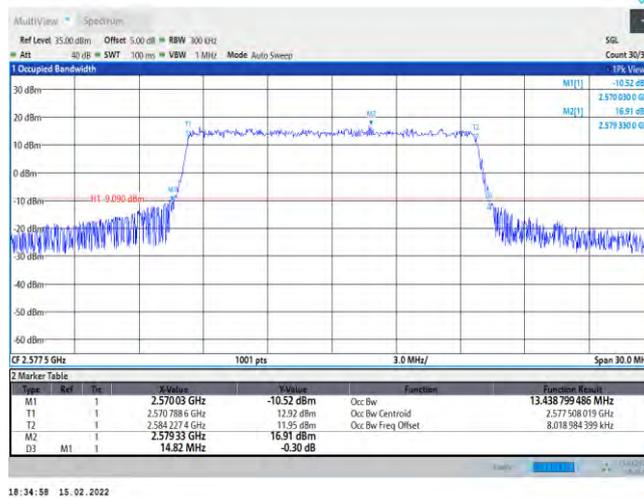
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Band38-15MHz-QPSK-38175-75RB#0



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

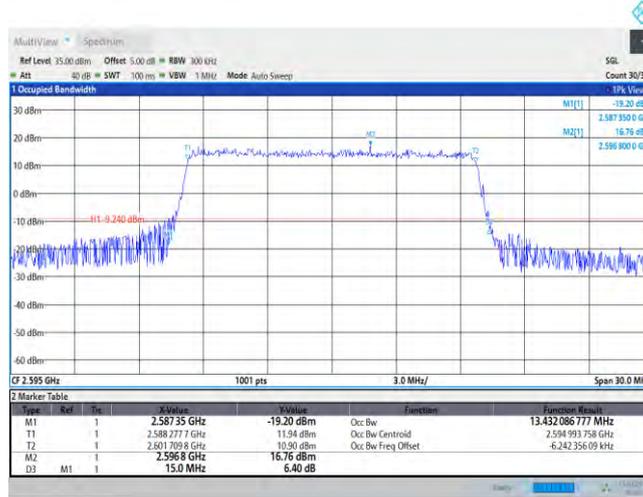


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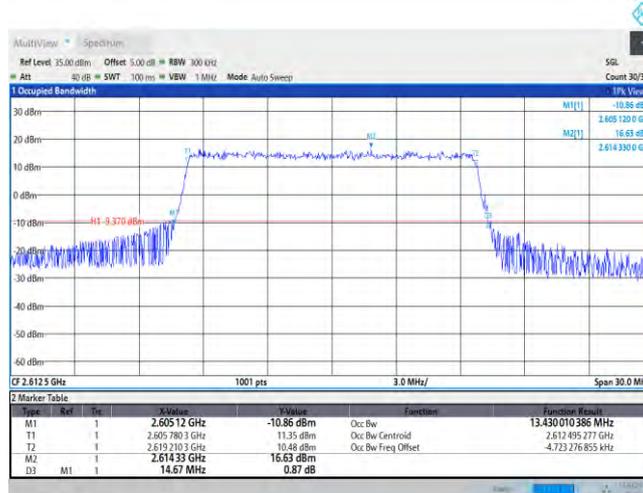
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Band38-15MHz-16QAM-38000-75RB#0



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



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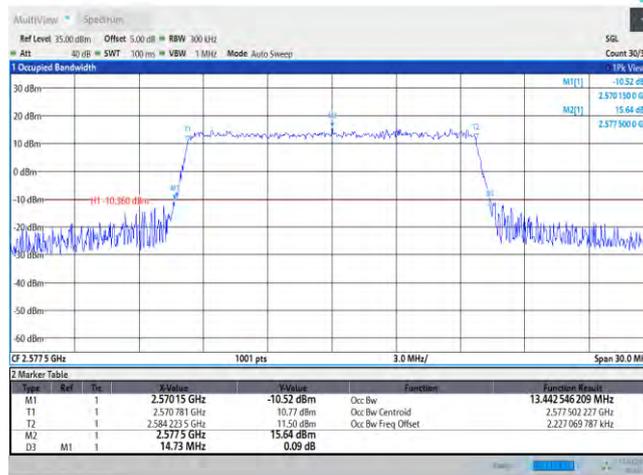


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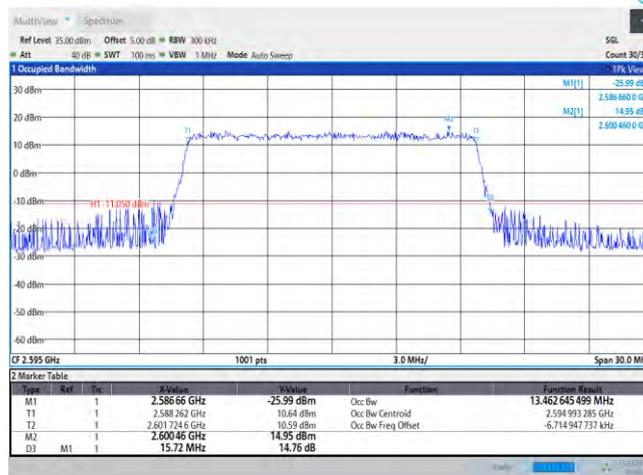
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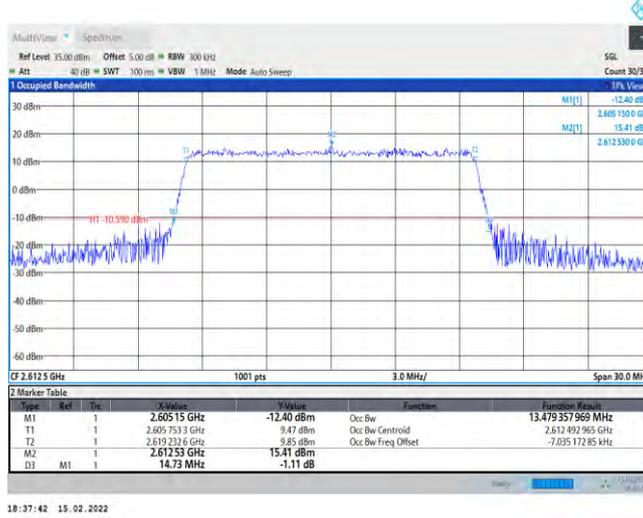


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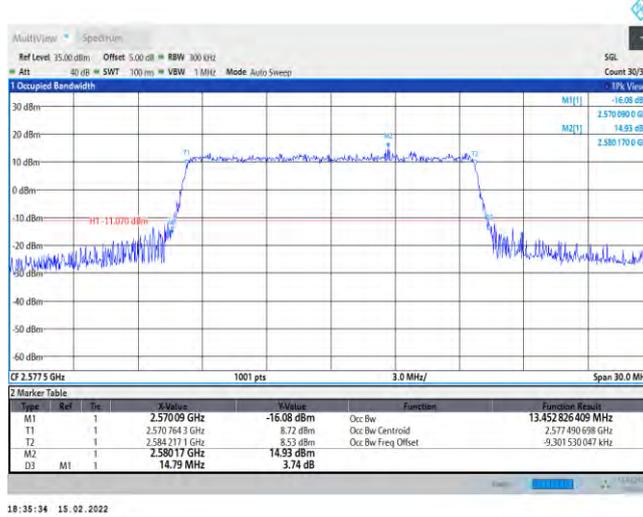
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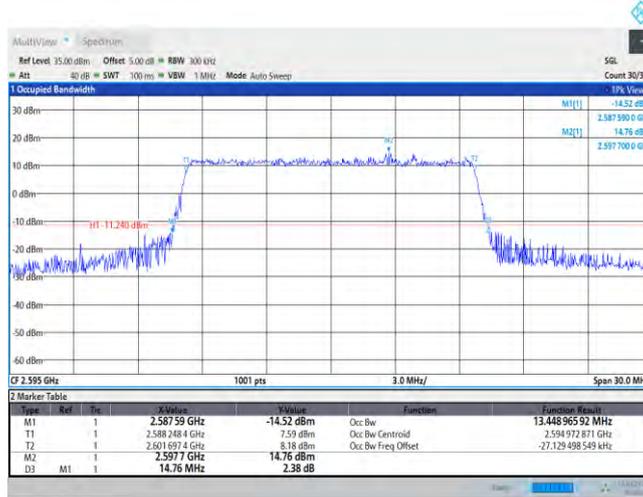
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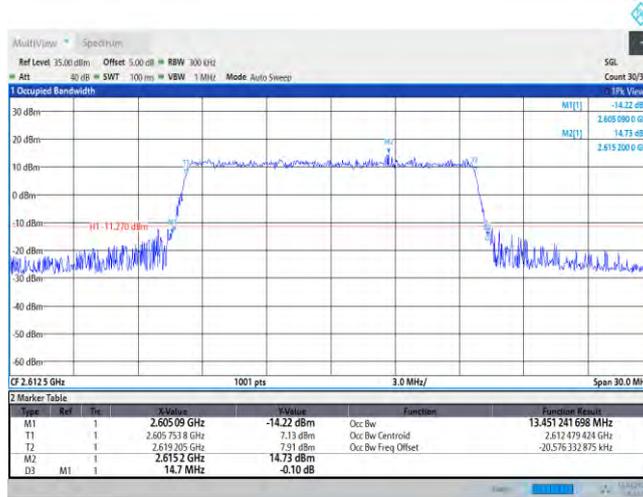
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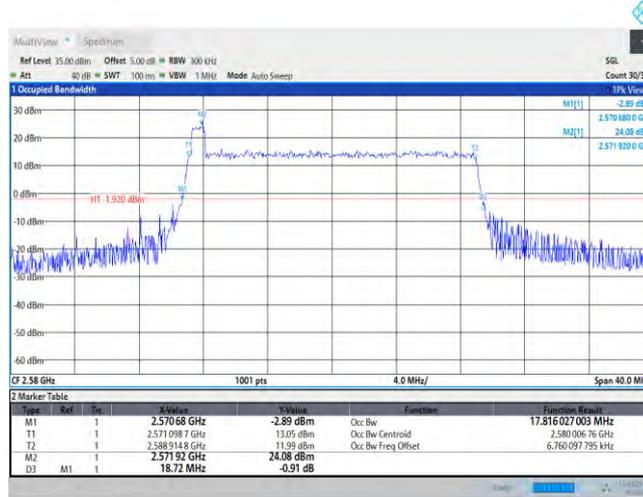


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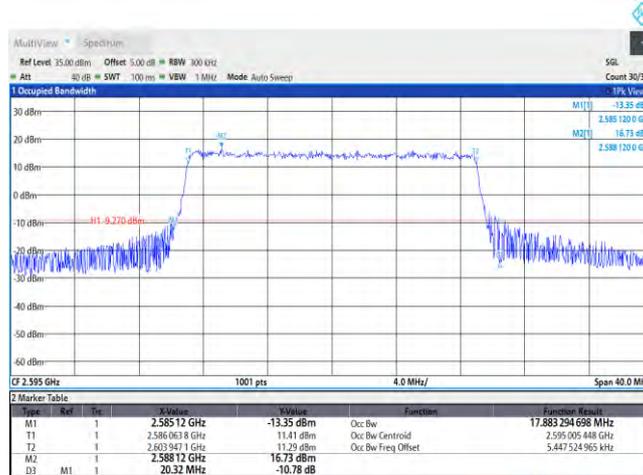
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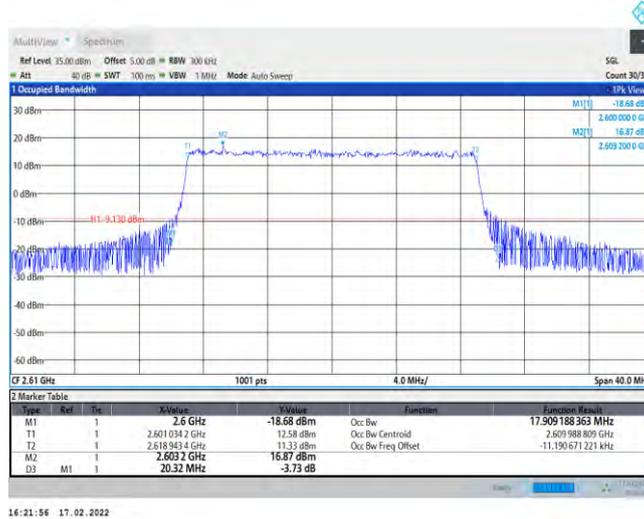


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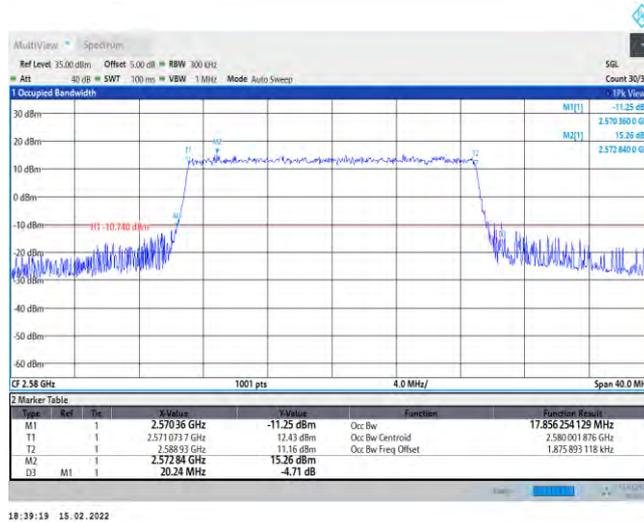


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Band38-20MHz-16QAM-37850-100RB#0



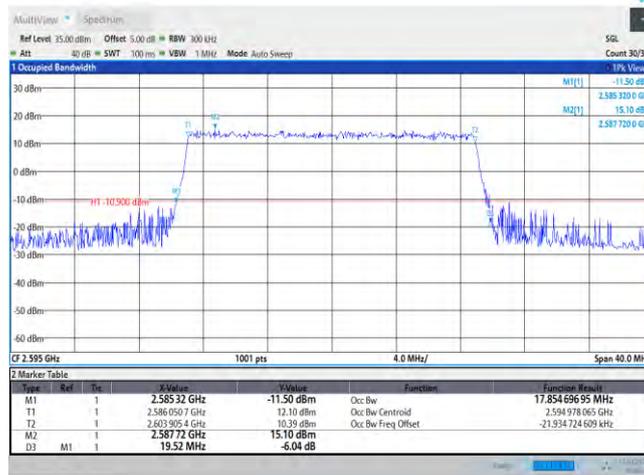
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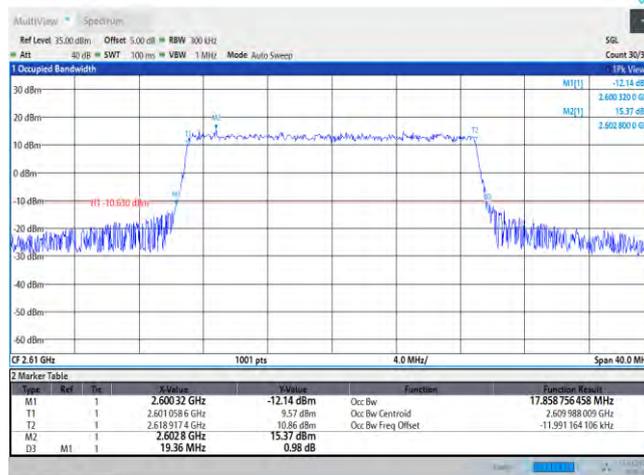
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Band38-20MHz-16QAM-38000-100RB#0



18:40:33 15.02.2022

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



18:41:46 15.02.2022

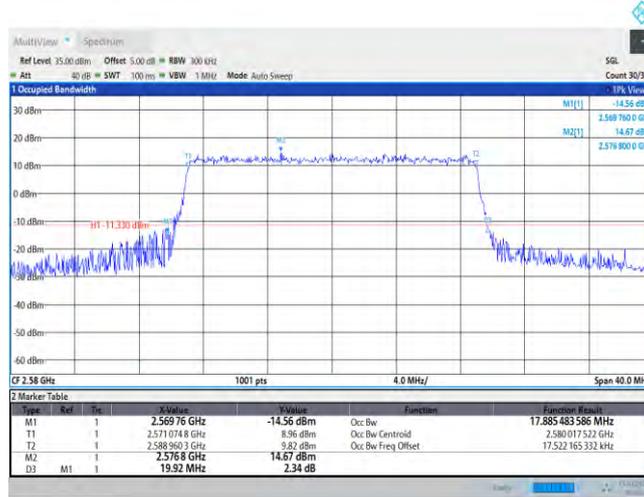


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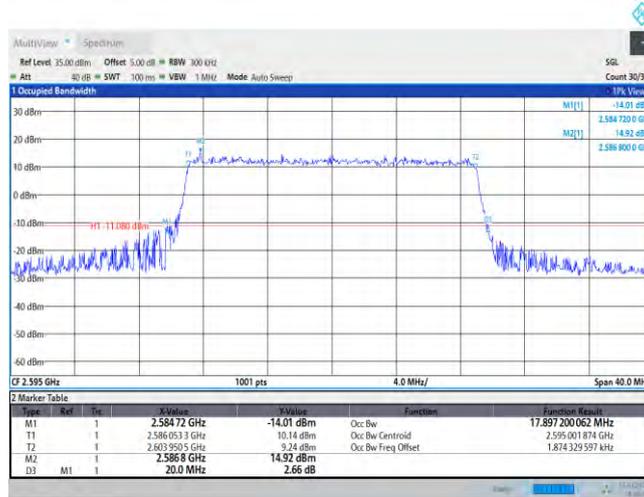
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Band38-20MHz-64QAM-37850-100RB#0



18:39:38 15.02.2022

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



18:40:51 15.02.2022



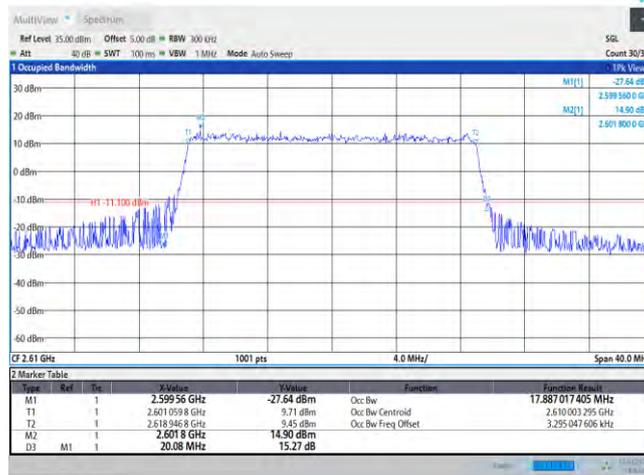
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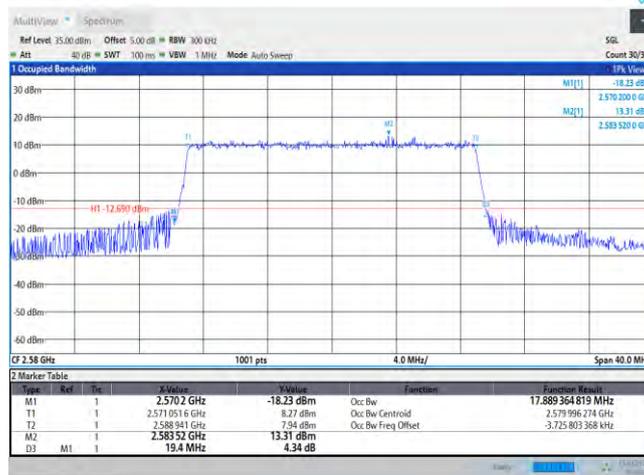
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Band38-20MHz-64QAM-38150-100RB#0



18:42:05 15.02.2022

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



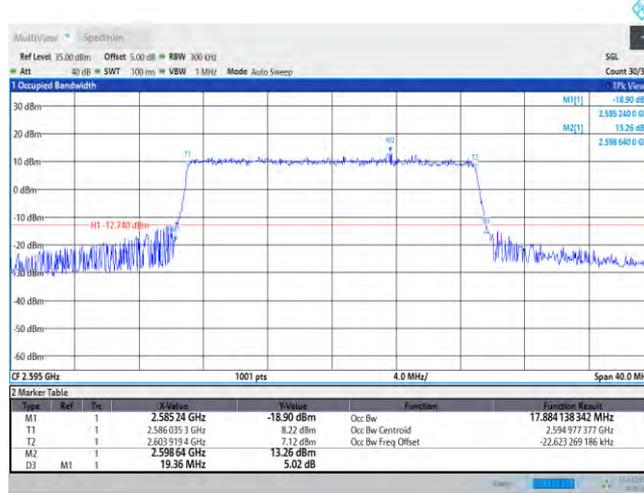
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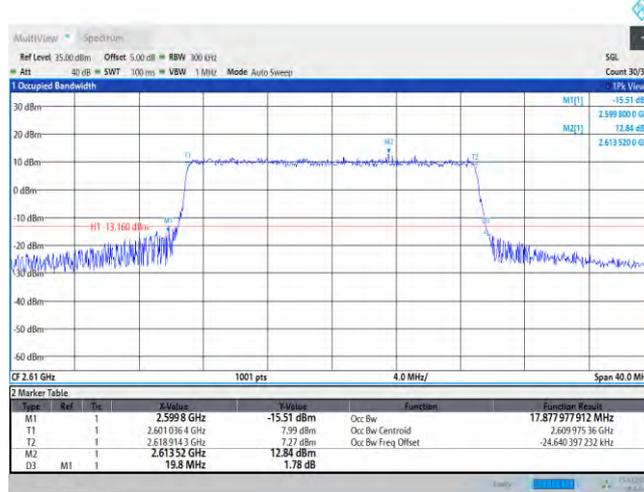
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Band38-20MHz-256QAM-38000-100RB#0



18:41:10 15.02.2022

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18:42:23 15.02.2022



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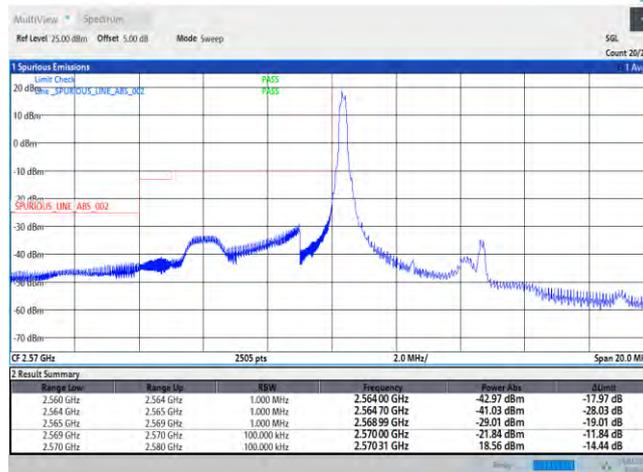
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Band Edge

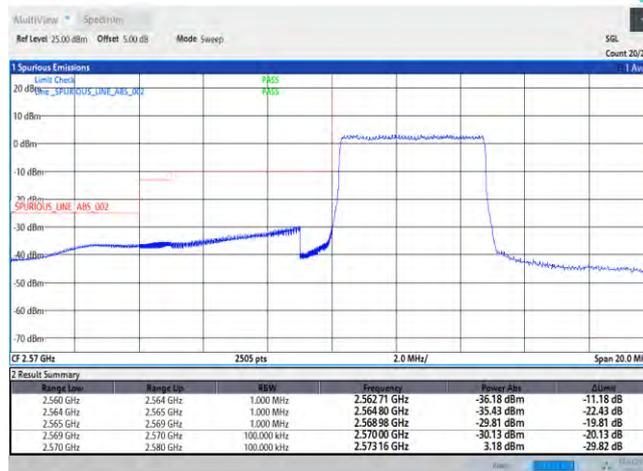
Test Graphs

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



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



19:11:51 15.02.2022



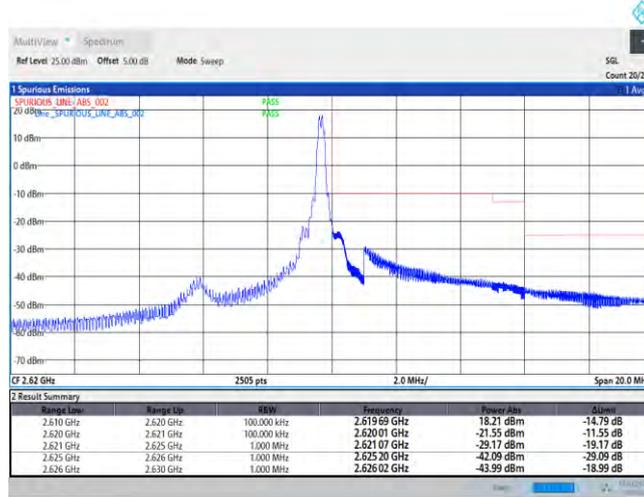
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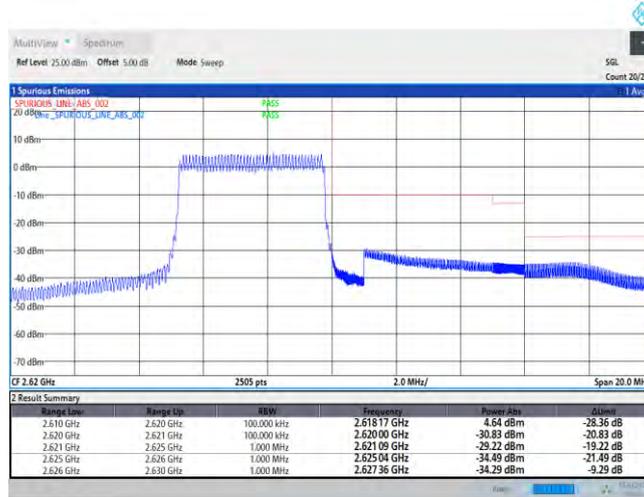
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Band38-5MHz-QPSK-38225-1RB#24



19:16:58 15. 02. 2022

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



19:21:39 15. 02. 2022

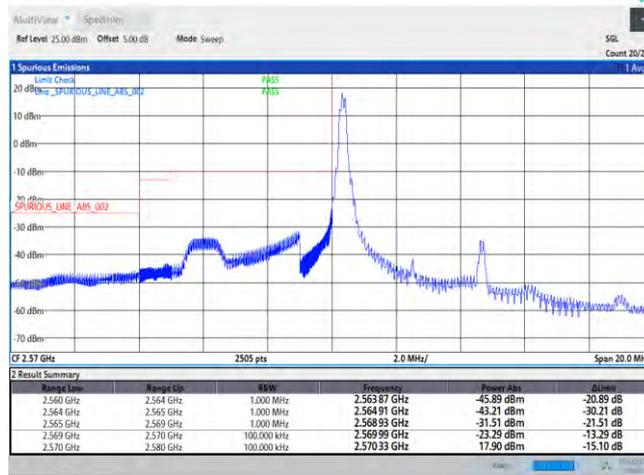


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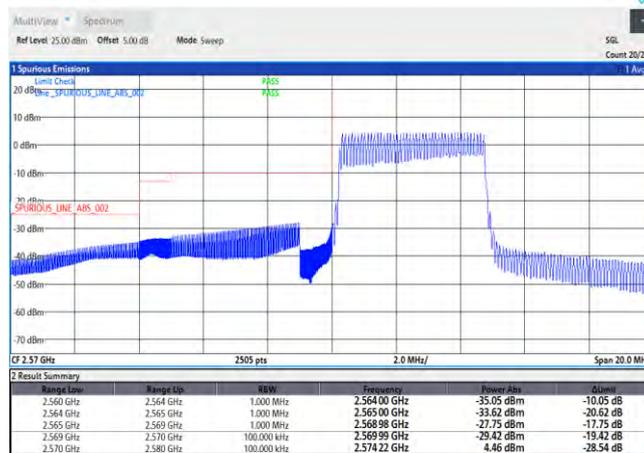
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Band38-5MHz-16QAM-37775-1RB#0



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



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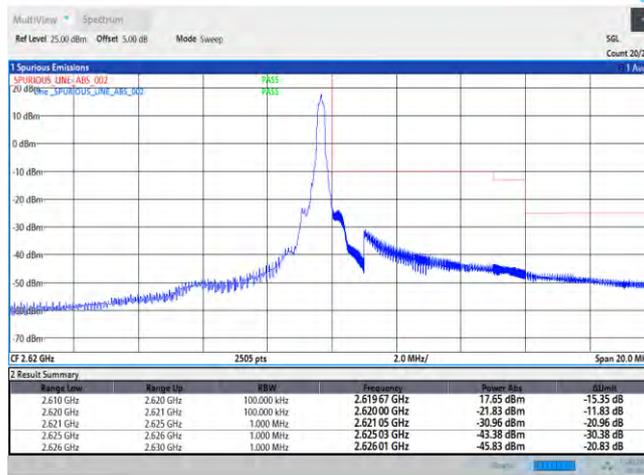


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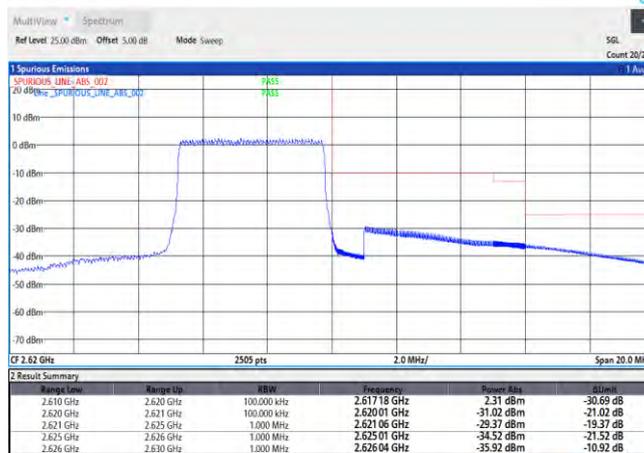
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Band38-5MHz-16QAM-38225-25RB#0



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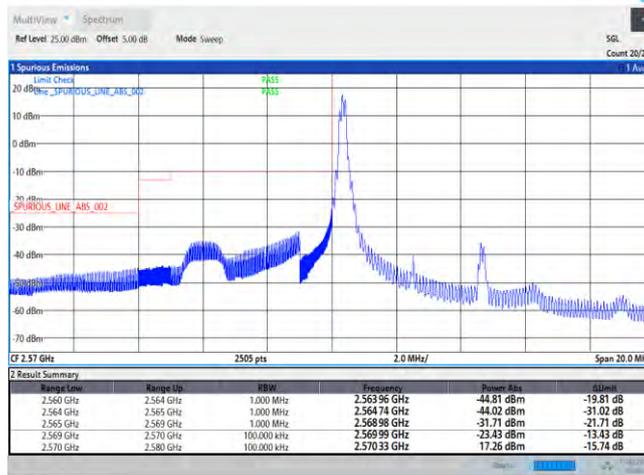


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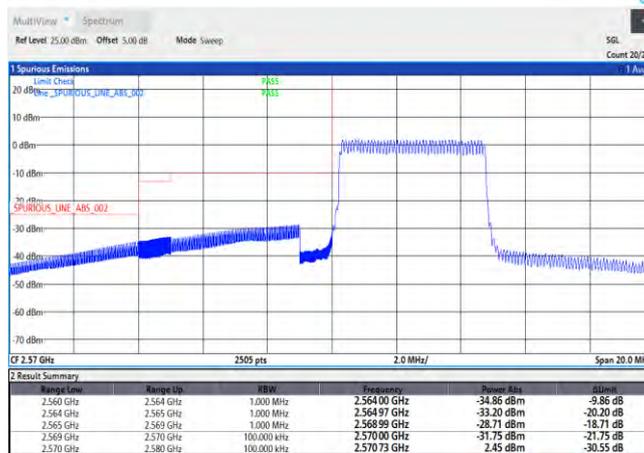
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Band38-5MHz-64QAM-37775-25RB#0



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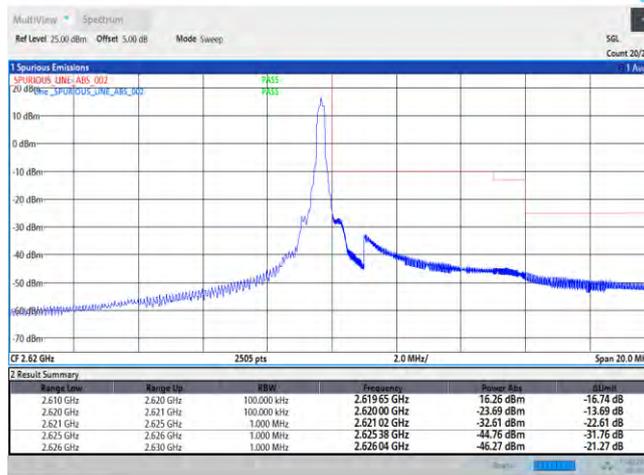


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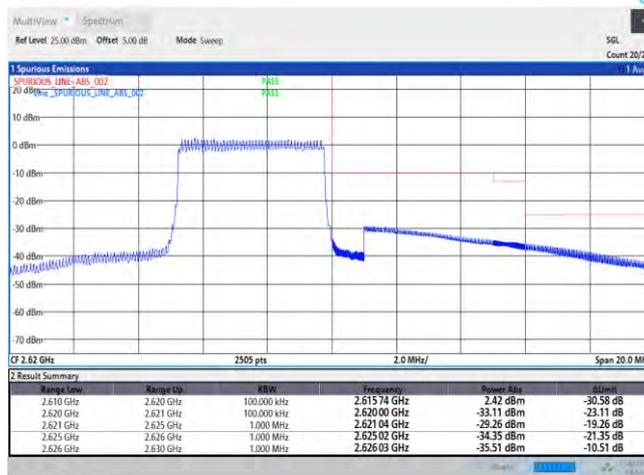
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19:19:18 15.02.2022

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



19:23:58 15.02.2022



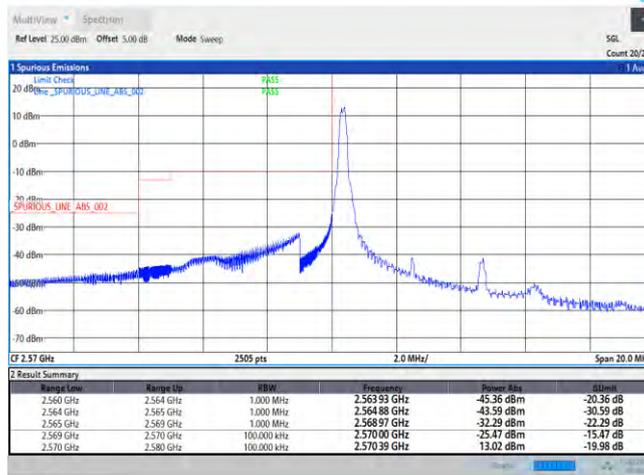
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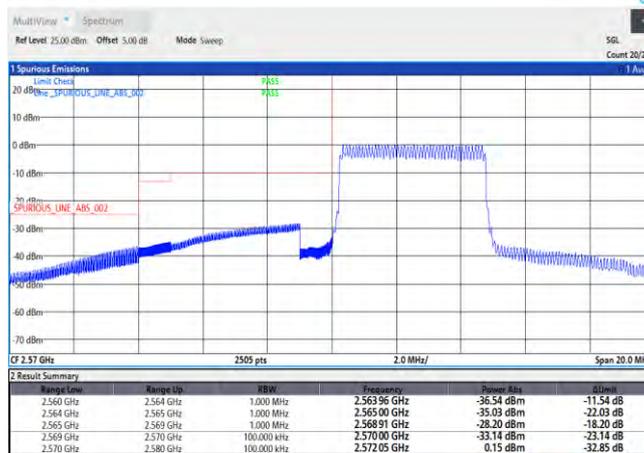
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19:10:41 15. 02. 2022

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



19:15:27 15. 02. 2022

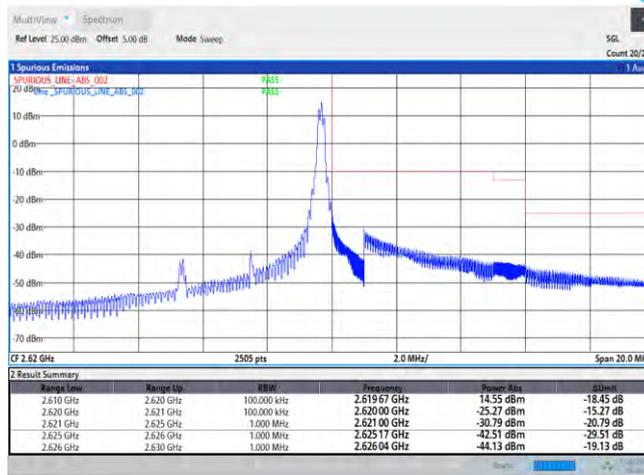


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Band38-5MHz-256QAM-38225-1RB#24



19:20:27 15. 02. 2022

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



19:25:08 15. 02. 2022

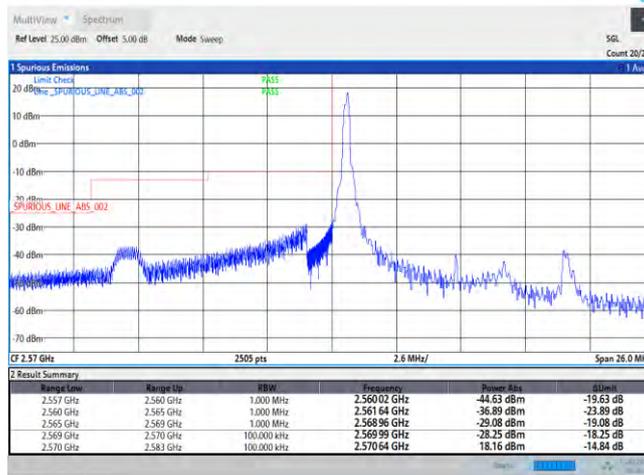


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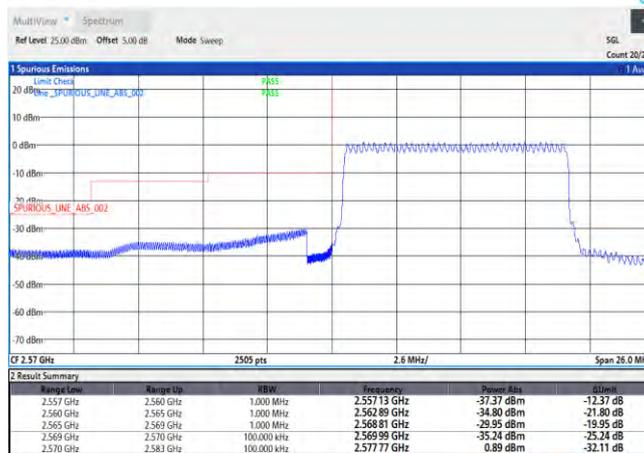
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Band38-10MHz-QPSK-37800-1RB#0



19:26:17 15. 02. 2022

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



19:29:50 15. 02. 2022

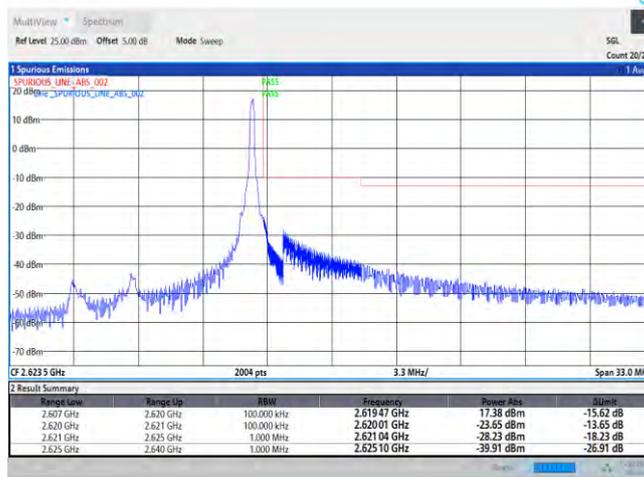


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Band38-10MHz-QPSK-38200-1RB#49



19:33:24 15.02.2022

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



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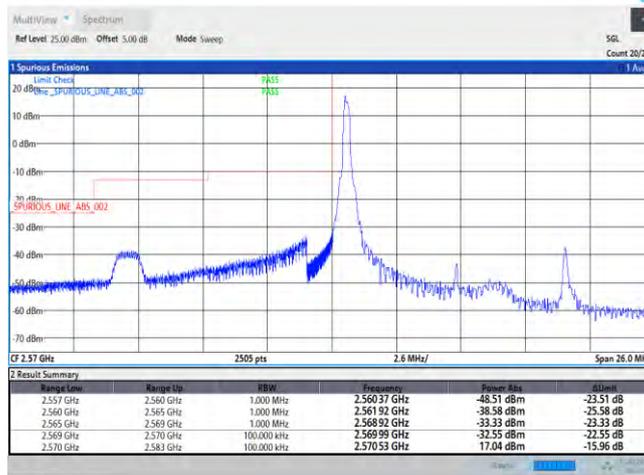


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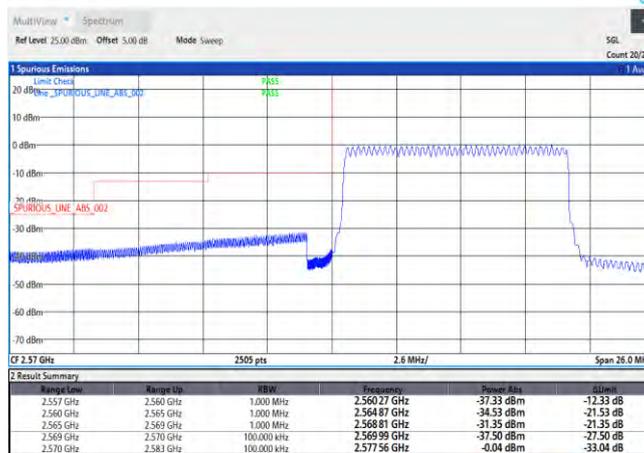
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Band38-10MHz-16QAM-37800-1RB#0



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



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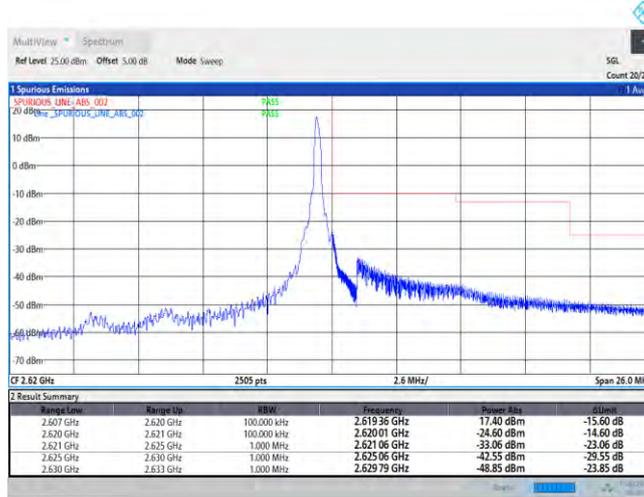


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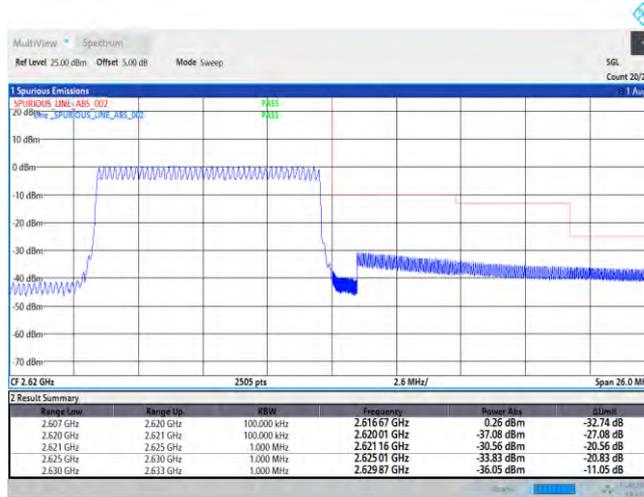
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Band38-10MHz-16QAM-38200-1RB#49



19:34:16 15.02.2022

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



19:37:42 15.02.2022



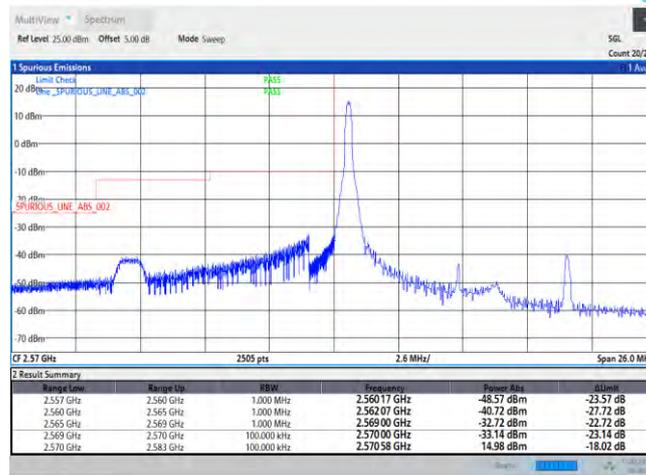
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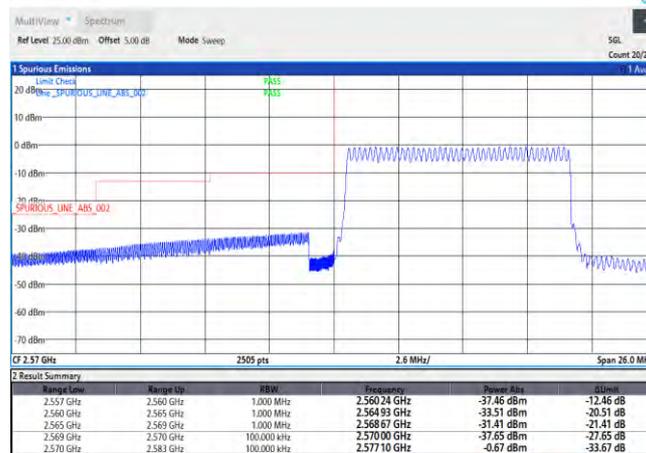
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Band38-10MHz-64QAM-37800-1RB#0



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



19:31:31 15.02.2022

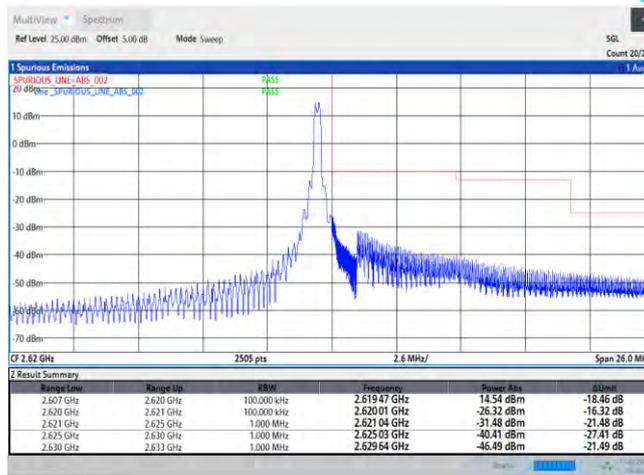


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Band38-10MHz-64QAM-38200-1RB#49



19:35:09 15.02.2022

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



19:38:33 15.02.2022

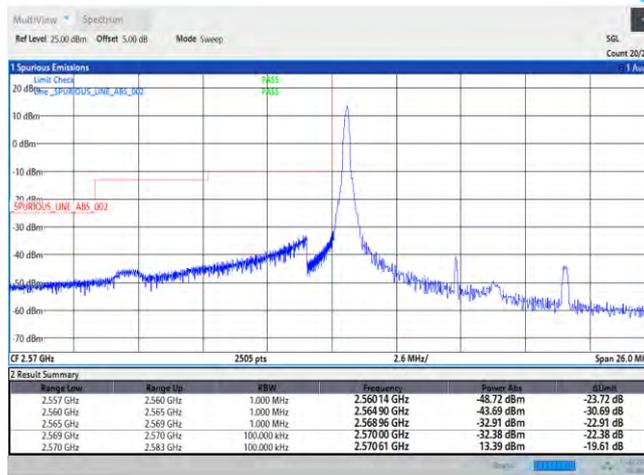


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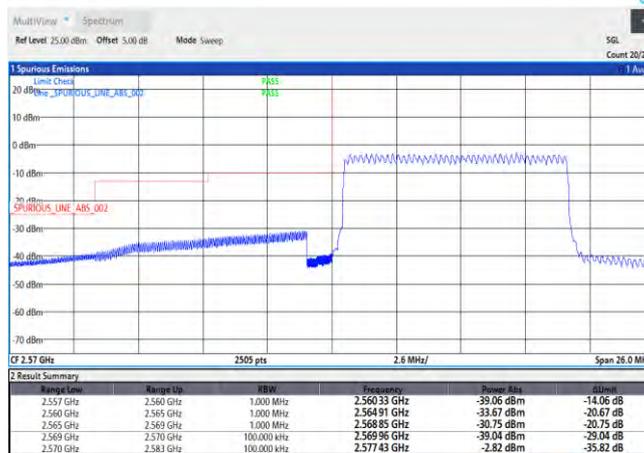
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Band38-10MHz-256QAM-37800-1RB#0



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



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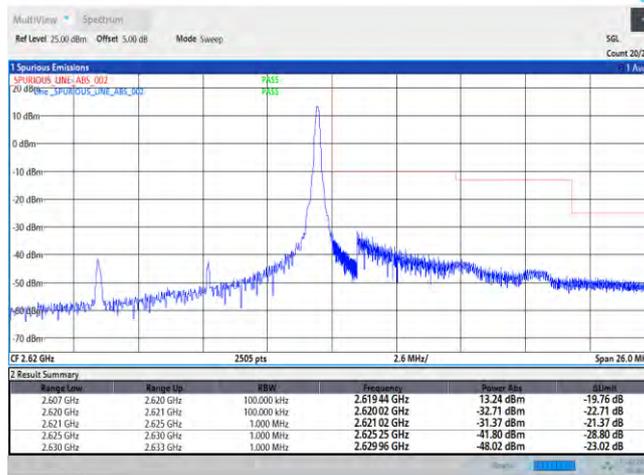


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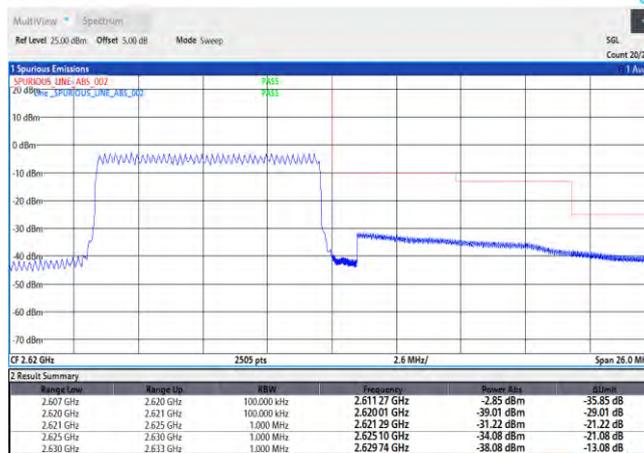
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Band38-10MHz-256QAM-38200-1RB#49



19:36:04 15.02.2022

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



19:39:24 15.02.2022



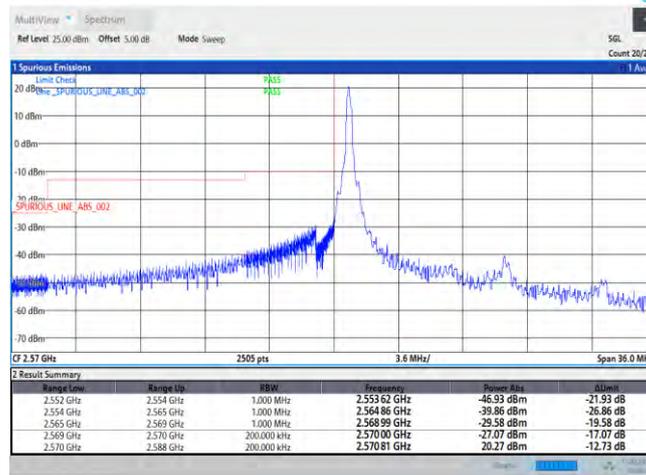
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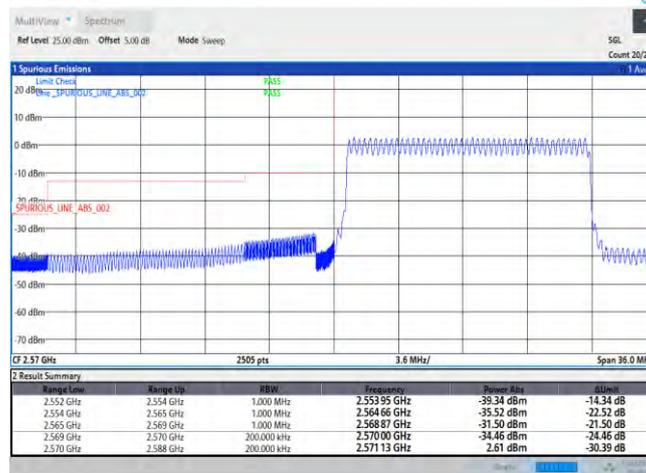
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Band38-15MHz-QPSK-37825-1RB#0



19:40:32 15. 02. 2022

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



19:44:07 15. 02. 2022



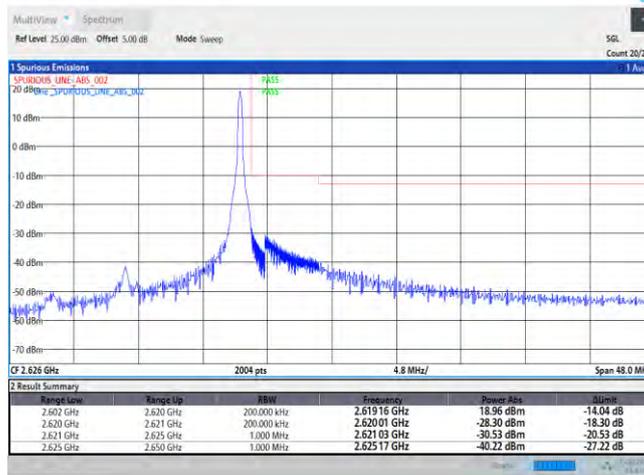
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Band38-15MHz-QPSK-38175-1RB#74



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



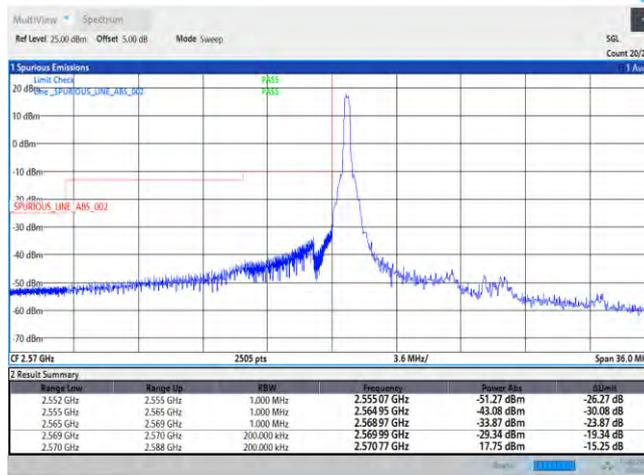
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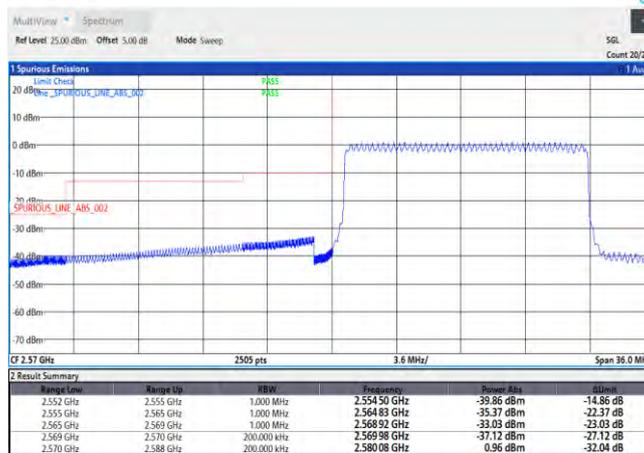
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Band38-15MHz-16QAM-37825-1RB#0



19:41:28 15. 02. 2022

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



19:45:03 15. 02. 2022

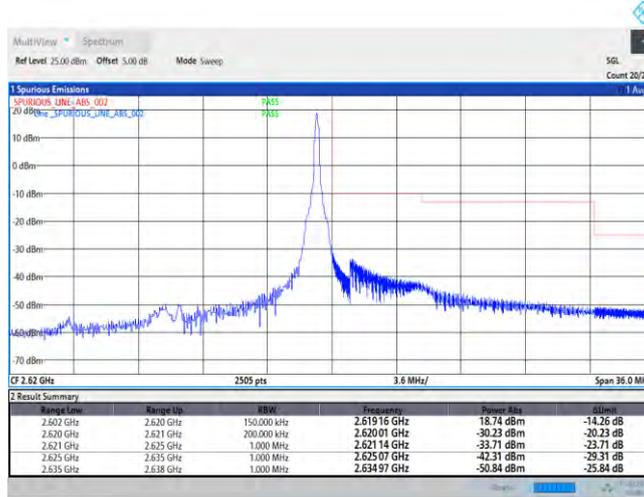


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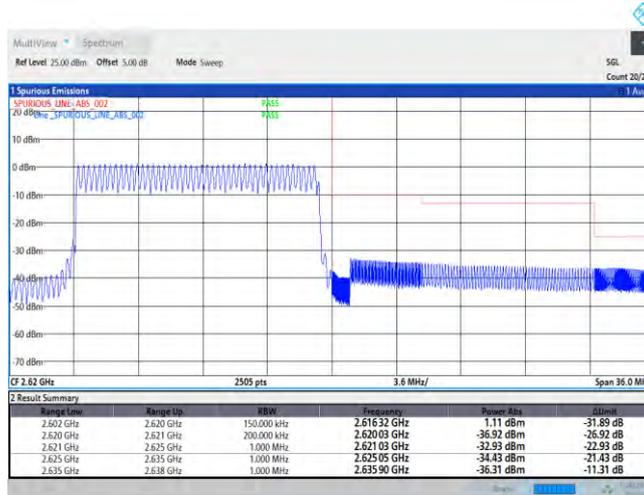
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Band38-15MHz-16QAM-38175-1RB#74



19:48:39 15.02.2022

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



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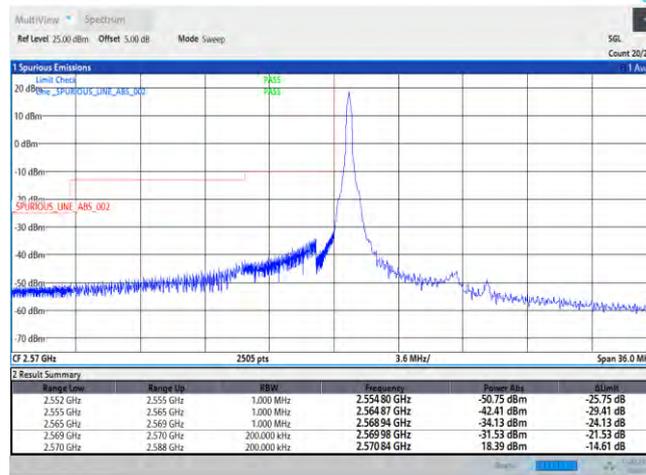


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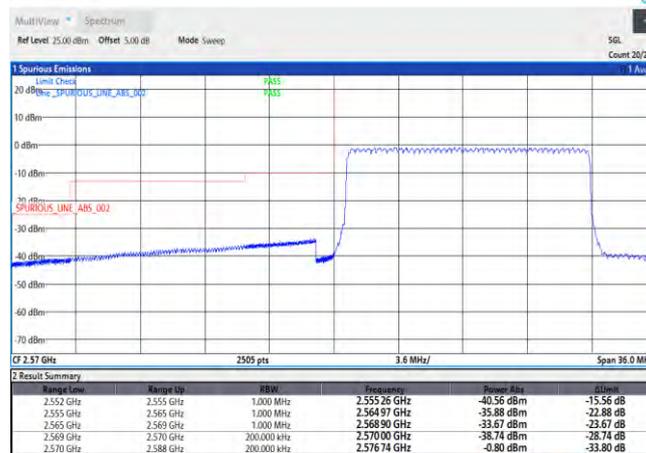
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Band38-15MHz-64QAM-37825-1RB#0



19:42:20 15. 02. 2022

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



19:45:53 15. 02. 2022



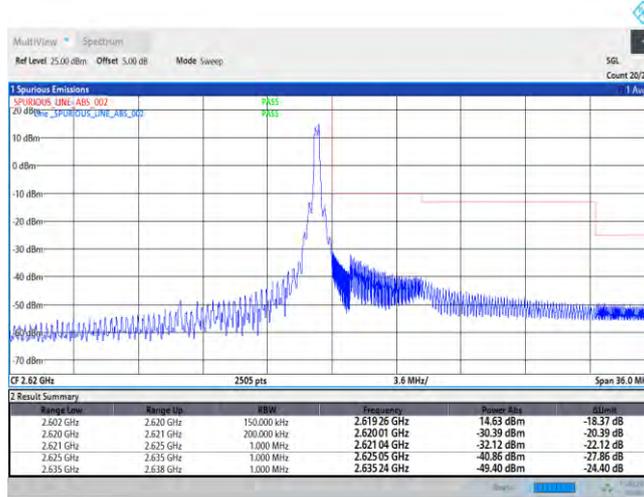
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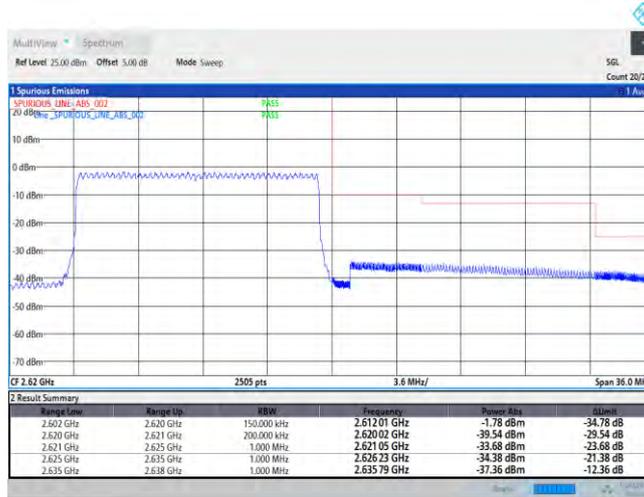
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Band38-15MHz-64QAM-38175-1RB#74



19:49:32 15.02.2022

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



19:53:00 15.02.2022



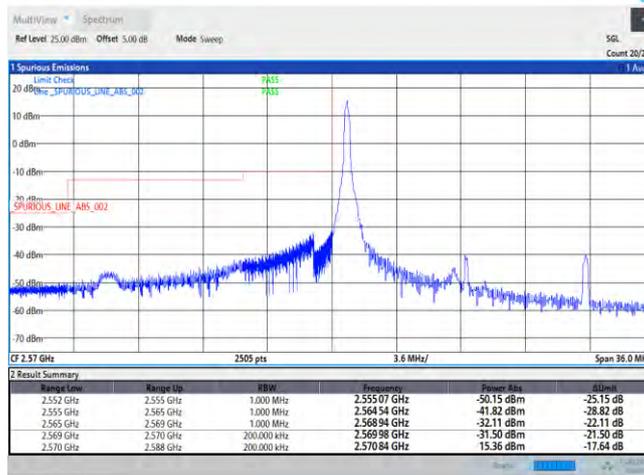
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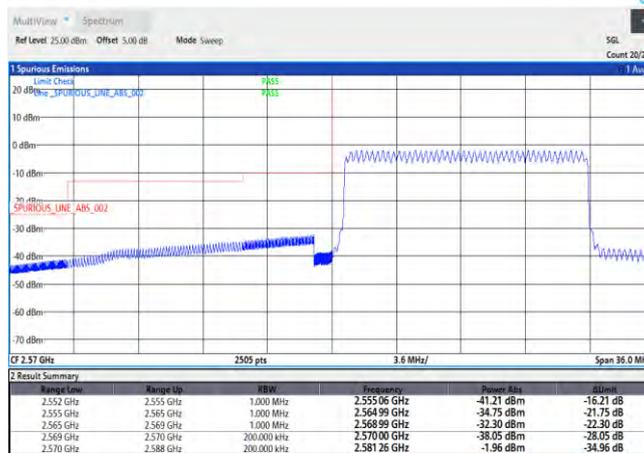
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Band38-15MHz-256QAM-37825-1RB#0



19:43:12 15. 02. 2022

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



19:46:43 15. 02. 2022

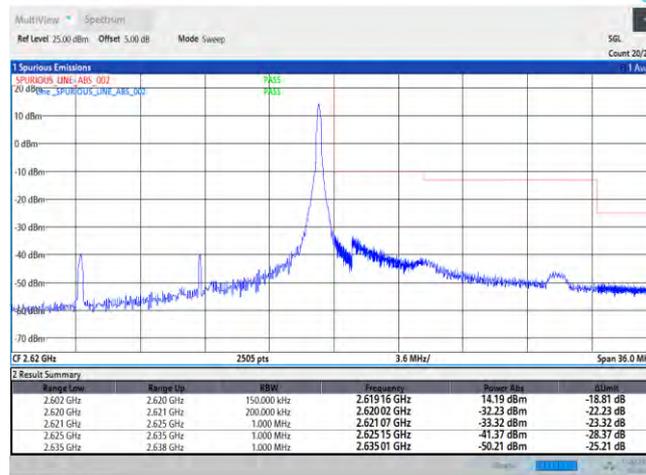


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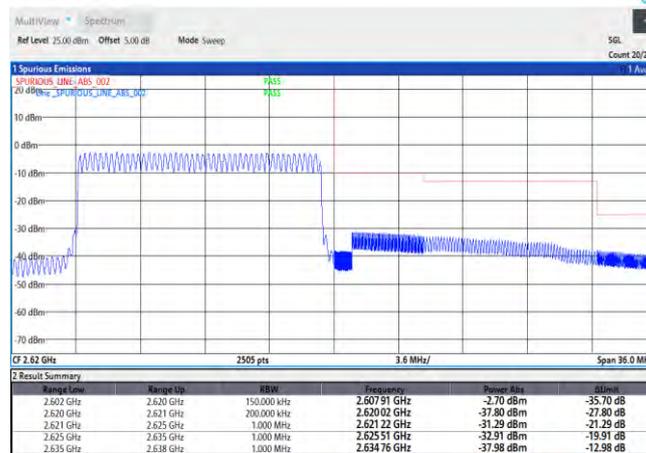
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Band38-15MHz-256QAM-38175-1RB#74



19:50:28 15.02.2022

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



19:53:51 15.02.2022



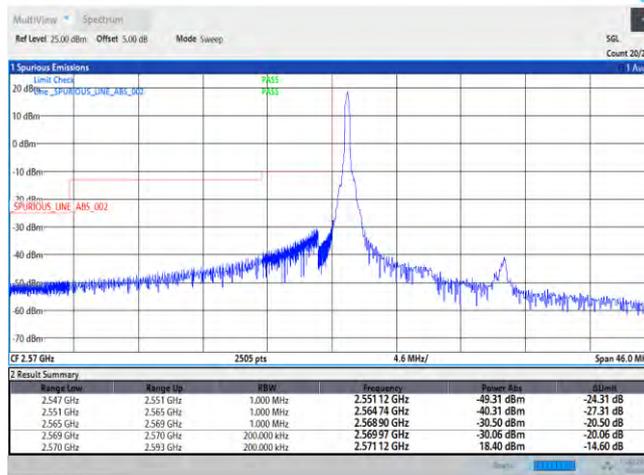
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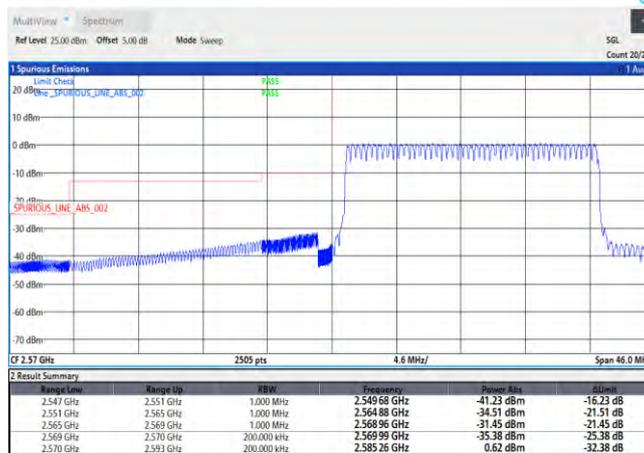
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Band38-20MHz-QPSK-37850-1RB#0



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



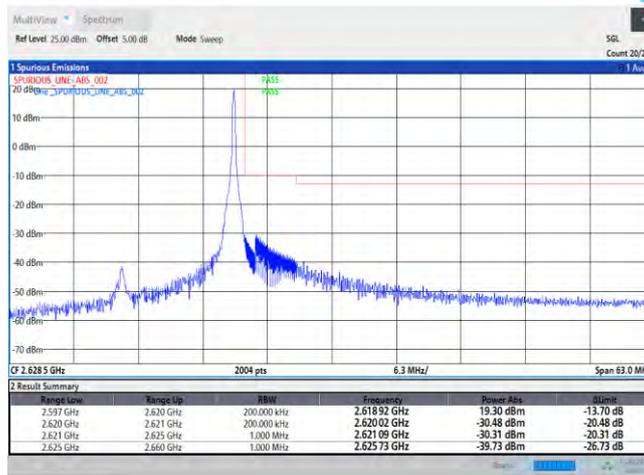
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Band38-20MHz-QPSK-38150-1RB#99



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



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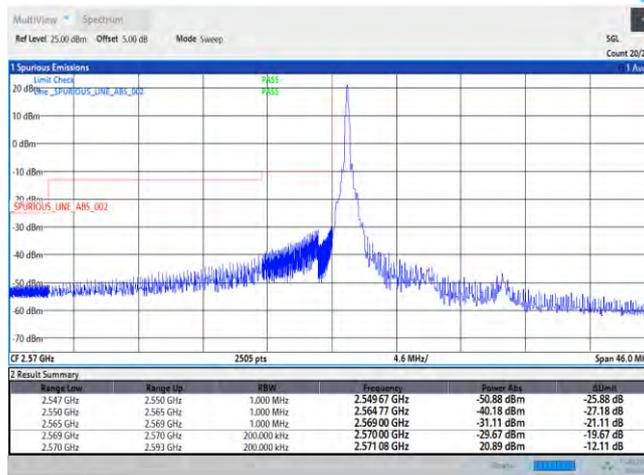


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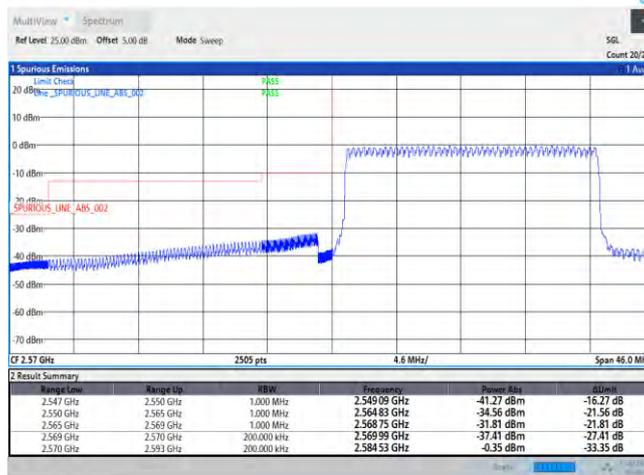
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Band38-20MHz-16QAM-37850-1RB#0



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



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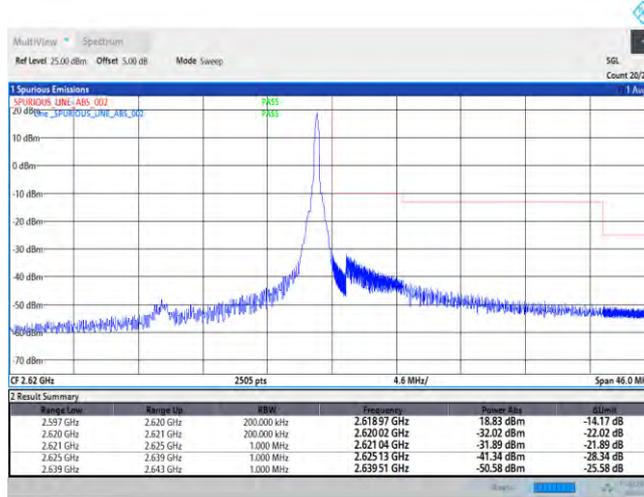


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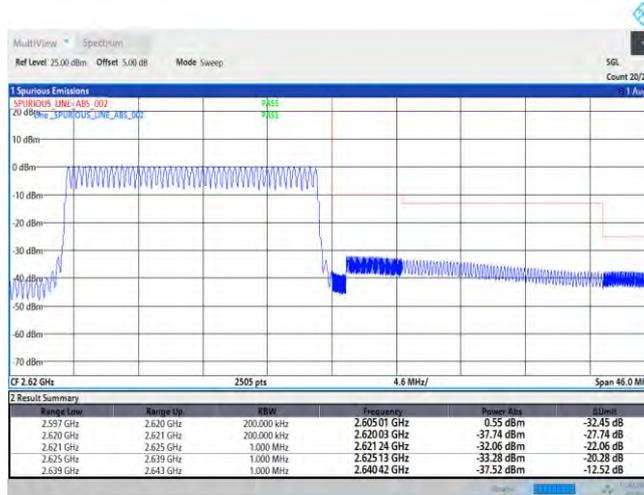
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Band38-20MHz-16QAM-38150-100RB#0



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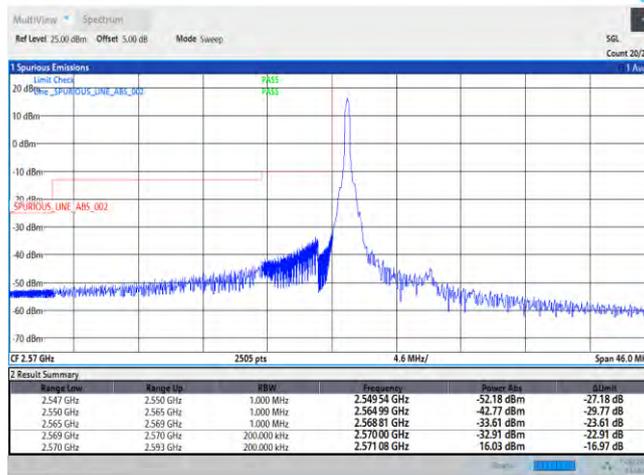
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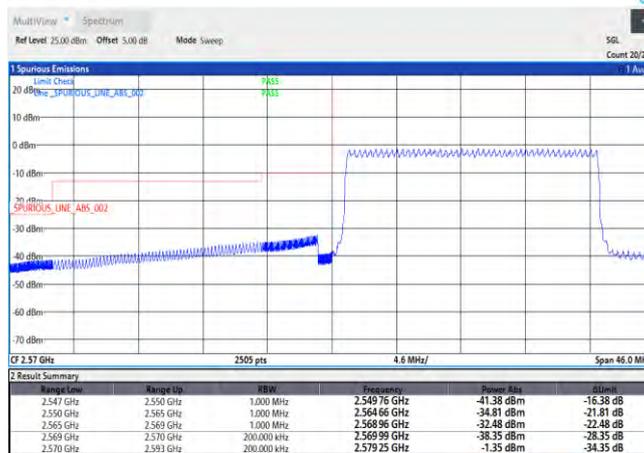
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Band38-20MHz-64QAM-37850-100RB#0



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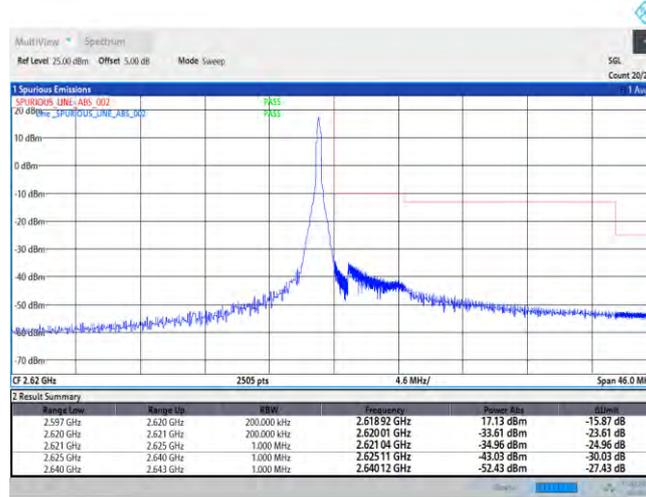


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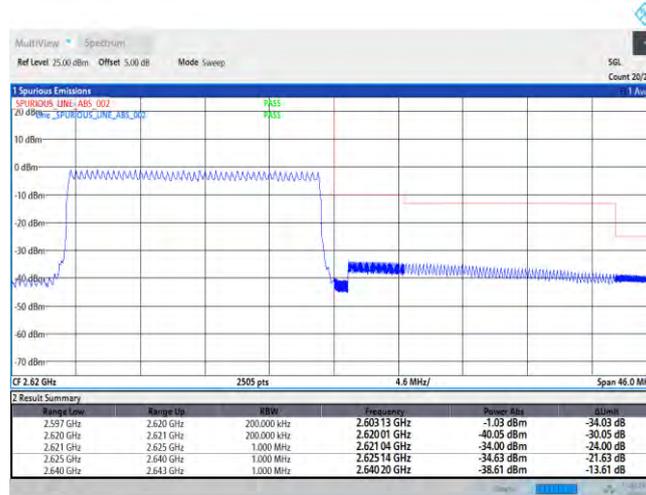
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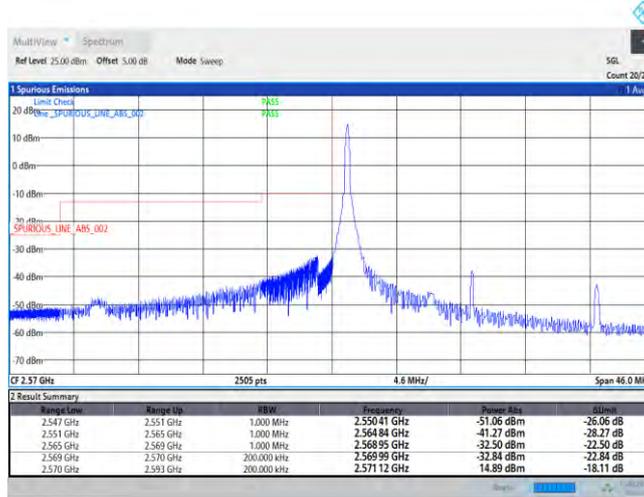


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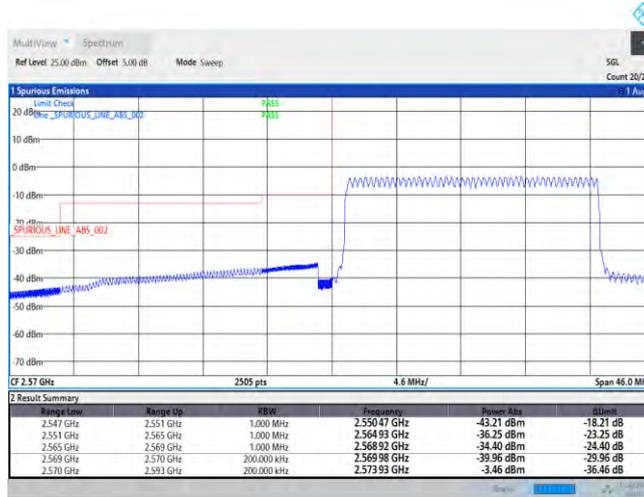
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Band38-20MHz-256QAM-37850-1RB#0



19:57:46 15.02.2022

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



20:01:14 15.02.2022



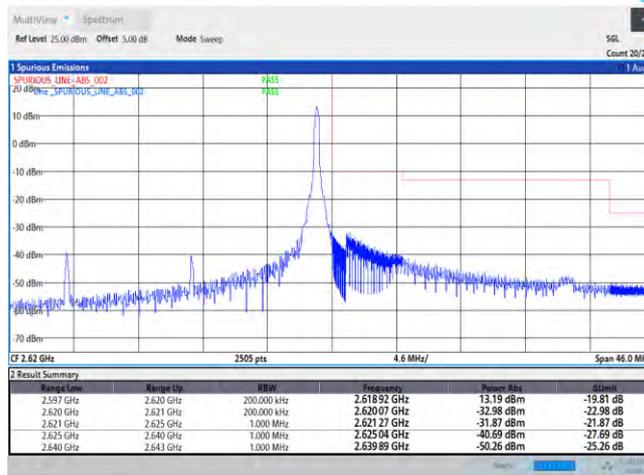
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Band38-20MHz-256QAM-38150-1RB#99



20:04:55 15.02.2022

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



20:08:17 15.02.2022



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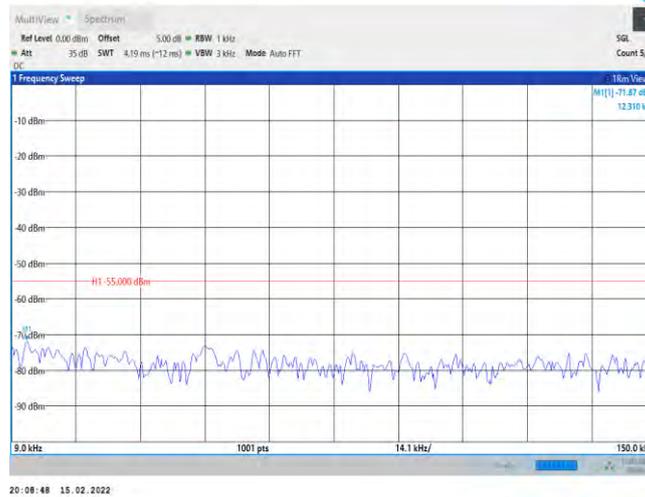
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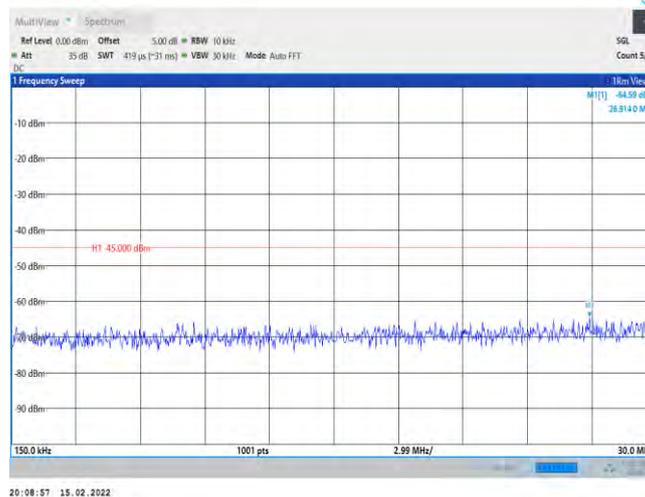
Conducted Spurious Emission

Test Graphs

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



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



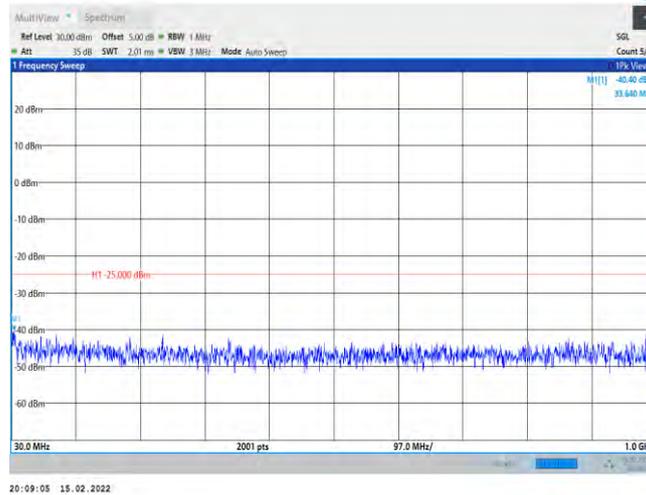
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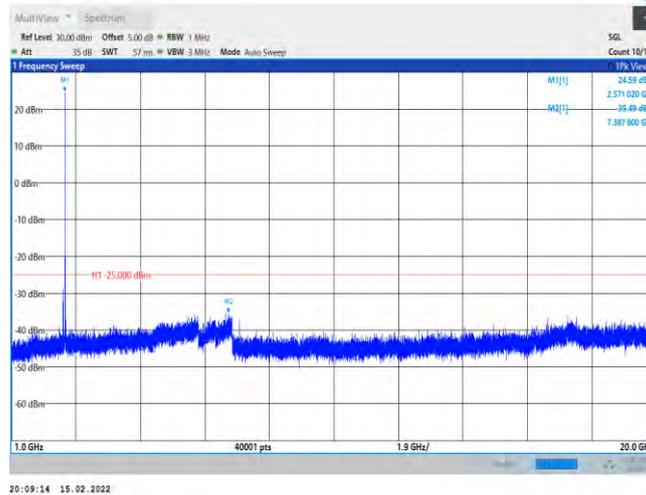
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



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

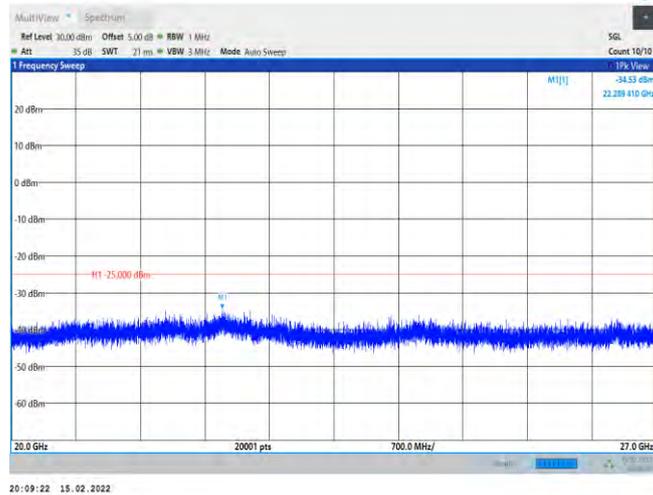


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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz

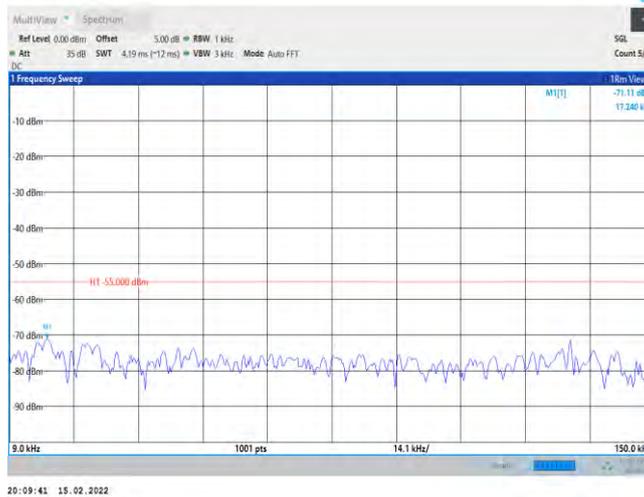


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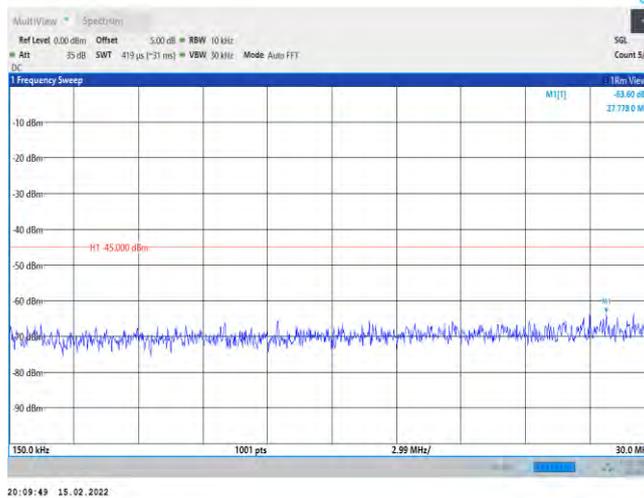
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Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



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

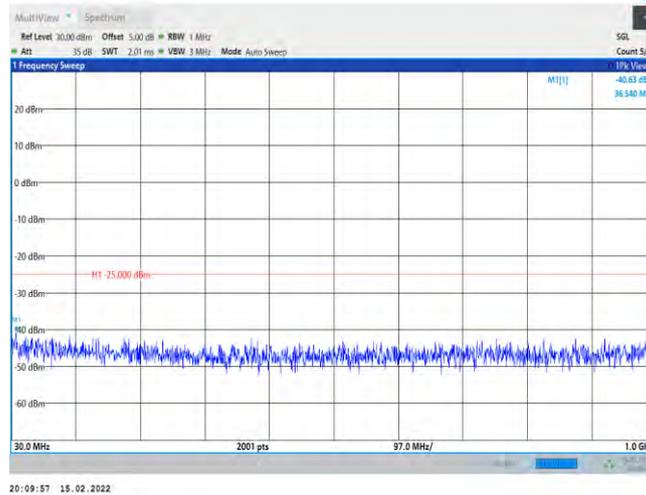


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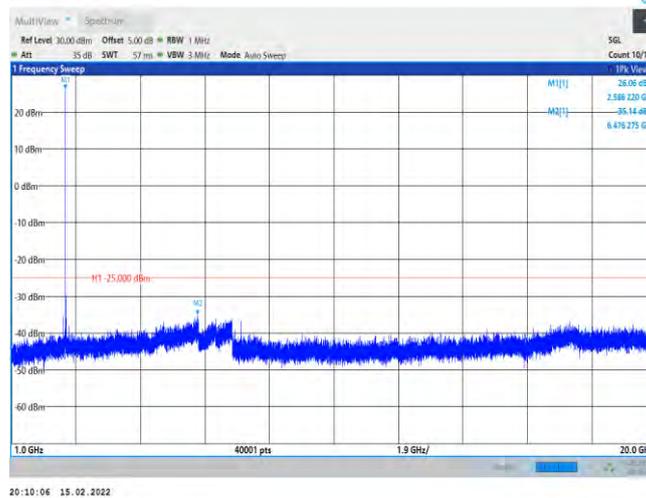
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Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



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



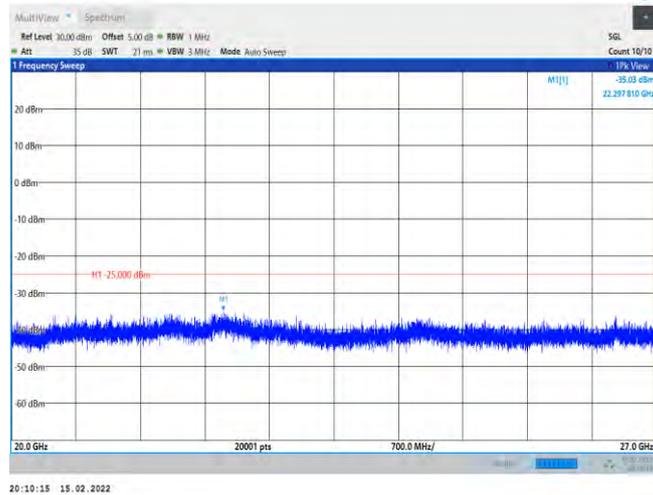
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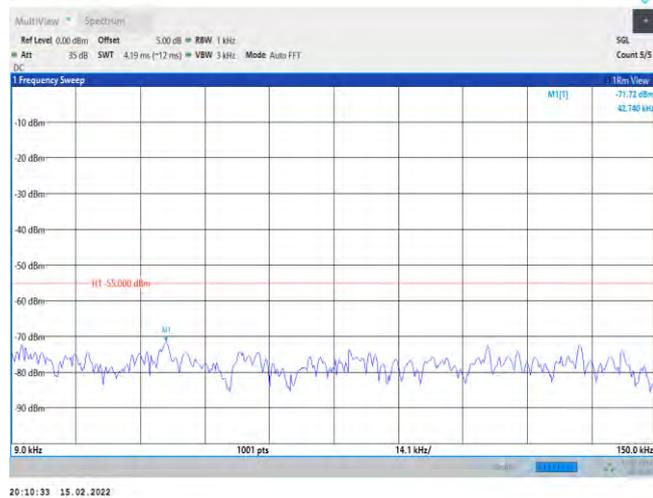
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Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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



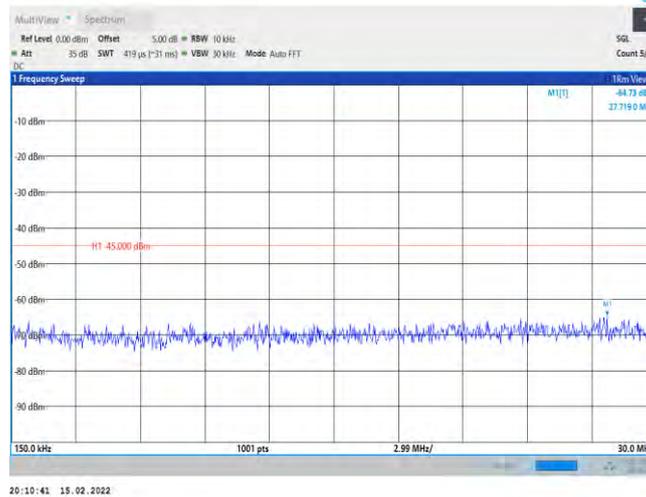
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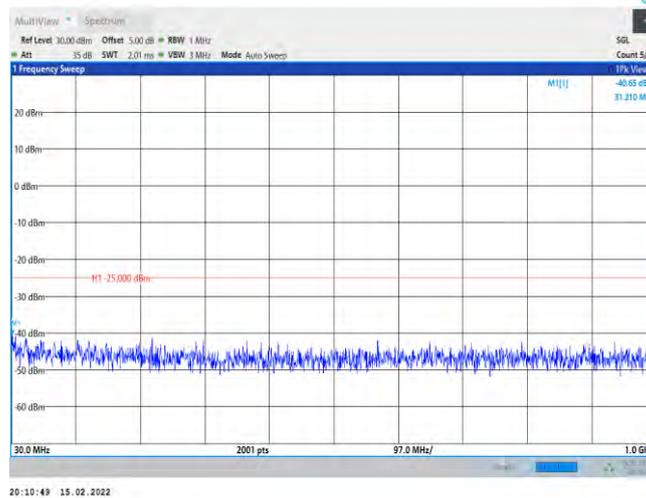
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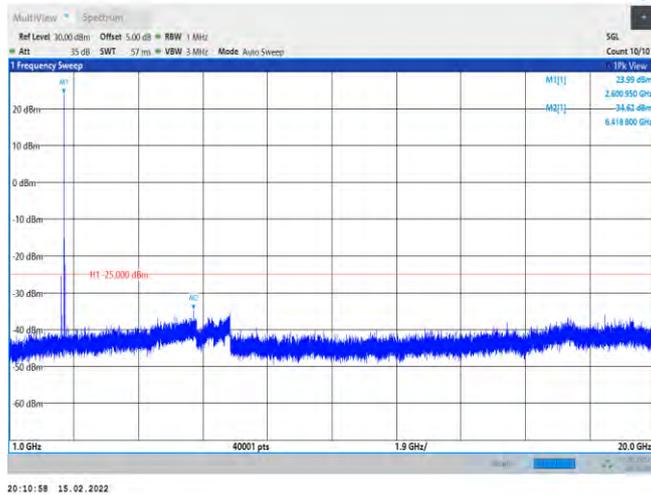
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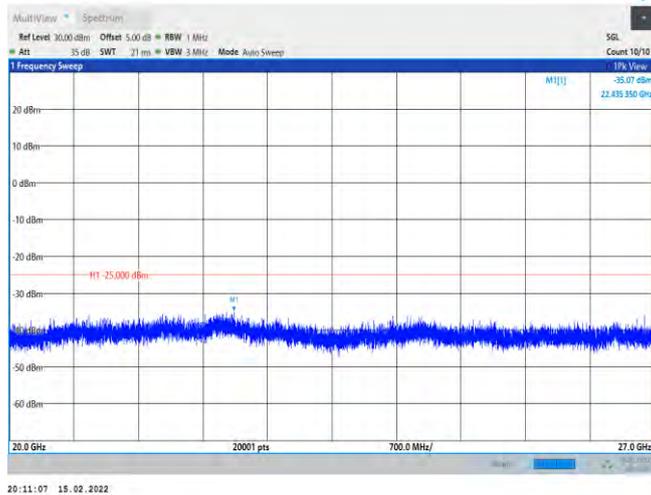
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band =LTE Band 38_ TM1 ANT2

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	52.31	-106.89	-54.58	-25.00	29.58	165	280	Horizontal
2	7713.27	56.39	-99.56	-43.17	-25.00	18.17	142	123	Horizontal
3	10284.36	43.01	-93.24	-50.23	-25.00	25.23	238	141	Horizontal
4	12855.45	42.35	-90.76	-48.41	-25.00	23.41	148	69	Horizontal
5	15426.54	41.01	-90.57	-49.56	-25.00	24.56	199	93	Horizontal
6	17997.63	40.29	-84.09	-43.80	-25.00	18.80	174	124	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	49.22	-106.89	-57.67	-25.00	32.67	187	46	Vertical
2	7713.27	56.47	-99.56	-43.09	-25.00	18.09	149	14	Vertical
3	10284.36	43.37	-93.24	-49.87	-25.00	24.87	193	115	Vertical
4	12855.45	42.73	-90.76	-48.03	-25.00	23.03	231	233	Vertical
5	15426.54	40.91	-90.57	-49.66	-25.00	24.66	206	139	Vertical
6	17997.63	39.88	-84.09	-44.21	-25.00	19.21	111	22	Vertical



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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Test Band =LTE Band 38_ TM1 ANT2

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	3597.8571	51.11	-110.86	-59.75	-25.00	34.75	159	315	Horizontal
2	5172.18	49.82	-106.85	-57.03	-25.00	32.03	206	185	Horizontal
3	7758.27	54.57	-99.15	-44.58	-25.00	19.58	188	33	Horizontal
4	10344.36	41.72	-93.05	-51.33	-25.00	26.33	147	257	Horizontal
5	12930.45	41.61	-90.61	-49.00	-25.00	24.00	133	339	Horizontal
6	15516.54	41.86	-90.85	-48.99	-25.00	23.99	274	23	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3934.2857	52.38	-110.29	-57.91	-25.00	32.91	136	213	Vertical
2	5172.18	48.99	-106.85	-57.86	-25.00	32.86	254	144	Vertical
3	7758.27	53.36	-99.15	-45.79	-25.00	20.79	174	153	Vertical
4	10344.36	41.73	-93.05	-51.32	-25.00	26.32	133	45	Vertical
5	12930.45	43.23	-90.61	-47.38	-25.00	22.38	221	105	Vertical
6	15516.54	40.31	-90.85	-50.54	-25.00	25.54	178	3	Vertical



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Test Band =LTE Band 38_ TM1 ANT2

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	3507.8571	51.62	-111.49	-59.87	-25.00	34.87	124	114	Horizontal
2	5202.18	49.96	-106.81	-56.85	-25.00	31.85	175	186	Horizontal
3	7803.27	52.89	-98.77	-45.88	-25.00	20.88	231	292	Horizontal
4	10404.36	42.13	-92.78	-50.65	-25.00	25.65	302	353	Horizontal
5	13005.45	43.16	-90.54	-47.38	-25.00	22.38	188	314	Horizontal
6	15606.54	40.86	-90.76	-49.90	-25.00	24.90	144	219	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3257.1429	52.68	-111.51	-58.83	-25.00	33.83	187	2	Vertical
2	5202.18	50.32	-106.81	-56.49	-25.00	31.49	142	124	Vertical
3	7803.27	54.41	-98.77	-44.36	-25.00	19.36	299	169	Vertical
4	10404.36	41.78	-92.78	-51.00	-25.00	26.00	235	169	Vertical
5	13005.45	42.46	-90.54	-48.08	-25.00	23.08	164	322	Vertical
6	15606.54	42.00	-90.76	-48.76	-25.00	23.76	171	355	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



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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	0.00	0.000000	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	4.20	0.001618	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	3.20	0.001233	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	-0.60	-0.000231	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	6.90	0.002659	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	3.00	0.001156	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	6.20	0.002389	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	4.40	0.001696	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	1.40	0.000539	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	2.60	0.001002	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-8.10	-0.003121	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	2.00	0.000771	PASS

The End



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