

Report No.: SEWM2305000166RG01

Rev.: 01

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Appendix B.16

LTE Band 38



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant15:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.90	22.60	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.79	22.49	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.77	22.47	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.85	21.55	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.23	22.93	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.96	22.66	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.02	22.72	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.97	21.67	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.25	22.95	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.91	22.61	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.92	22.62	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.98	21.68	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.84	21.54	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.02	21.72	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.11	21.81	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.82	20.52	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.10	21.80	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.15	21.85	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.13	21.83	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.92	20.62	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.10	21.80	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.09	21.79	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.18	21.88	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.92	20.62	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	20.91	20.61	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	20.53	20.23	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	20.62	20.32	33.00	PASS



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Band38	5MHz	64QAM	37775	25RB#0	19.86	19.56	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	20.72	20.42	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	20.73	20.43	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	20.82	20.52	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	19.93	19.63	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.73	20.43	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	20.65	20.35	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	20.68	20.38	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.00	19.70	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#0	17.90	17.60	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#12	17.74	17.44	33.00	PASS
Band38	5MHz	256QAM	37775	1RB#24	17.79	17.49	33.00	PASS
Band38	5MHz	256QAM	37775	25RB#0	17.91	17.61	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#0	17.90	17.60	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#12	17.93	17.63	33.00	PASS
Band38	5MHz	256QAM	38000	1RB#24	17.92	17.62	33.00	PASS
Band38	5MHz	256QAM	38000	25RB#0	18.00	17.70	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#0	17.95	17.65	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#12	17.89	17.59	33.00	PASS
Band38	5MHz	256QAM	38225	1RB#24	17.94	17.64	33.00	PASS
Band38	5MHz	256QAM	38225	25RB#0	18.02	17.72	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.76	22.46	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.77	22.47	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.74	22.44	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.91	21.61	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.22	22.92	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.99	22.69	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.94	22.64	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.97	21.67	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.19	22.89	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.01	22.71	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.88	22.58	33.00	PASS



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Band38	10MHz	QPSK	38200	50RB#0	22.04	21.74	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.88	21.58	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.85	21.55	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.84	21.54	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.94	20.64	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.07	21.77	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.00	21.70	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.04	21.74	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.06	20.76	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.05	21.75	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.90	21.60	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.93	21.63	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.10	20.80	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	20.61	20.31	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	20.55	20.25	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.56	20.26	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.97	19.67	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.72	20.42	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	20.76	20.46	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	20.79	20.49	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.09	19.79	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.03	20.73	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.07	20.77	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.72	20.42	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.11	19.81	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#0	17.71	17.41	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#24	17.68	17.38	33.00	PASS
Band38	10MHz	256QAM	37800	1RB#49	17.65	17.35	33.00	PASS
Band38	10MHz	256QAM	37800	50RB#0	18.00	17.70	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#0	17.79	17.49	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#24	17.90	17.60	33.00	PASS
Band38	10MHz	256QAM	38000	1RB#49	17.85	17.55	33.00	PASS



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Band38	10MHz	256QAM	38000	50RB#0	18.09	17.79	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#0	18.11	17.81	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#24	18.00	17.70	33.00	PASS
Band38	10MHz	256QAM	38200	1RB#49	17.75	17.45	33.00	PASS
Band38	10MHz	256QAM	38200	50RB#0	18.17	17.87	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.64	22.34	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.73	22.43	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.72	22.42	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.78	21.48	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.96	22.66	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.87	22.57	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.90	22.60	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.88	21.58	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.18	22.88	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.83	22.53	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.80	22.50	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.94	21.64	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.92	21.62	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.95	21.65	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.96	21.66	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.81	20.51	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.10	21.80	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.03	21.73	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.06	21.76	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.89	20.59	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.04	21.74	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.06	21.76	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.99	21.69	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.95	20.65	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	20.39	20.09	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.48	20.18	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	20.48	20.18	33.00	PASS



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Band38	15MHz	64QAM	37825	75RB#0	19.85	19.55	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.51	20.21	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.64	20.34	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	20.61	20.31	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	19.94	19.64	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	20.62	20.32	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.61	20.31	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.57	20.27	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	19.98	19.68	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#0	17.49	17.19	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#38	17.65	17.35	33.00	PASS
Band38	15MHz	256QAM	37825	1RB#74	17.62	17.32	33.00	PASS
Band38	15MHz	256QAM	37825	75RB#0	17.82	17.52	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#0	17.63	17.33	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#38	17.84	17.54	33.00	PASS
Band38	15MHz	256QAM	38000	1RB#74	17.76	17.46	33.00	PASS
Band38	15MHz	256QAM	38000	75RB#0	17.91	17.61	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#0	17.72	17.42	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#38	17.78	17.48	33.00	PASS
Band38	15MHz	256QAM	38175	1RB#74	17.68	17.38	33.00	PASS
Band38	15MHz	256QAM	38175	75RB#0	17.98	17.68	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.68	22.38	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.72	22.42	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.76	22.46	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.81	21.51	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.16	22.86	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.87	22.57	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.84	22.54	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.88	21.58	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.97	22.67	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.88	22.58	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.81	22.51	33.00	PASS



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Band38	20MHz	QPSK	38150	100RB#0	21.96	21.66	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.89	21.59	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.86	21.56	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.00	21.70	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.86	20.56	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.90	21.60	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.03	21.73	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.09	21.79	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.95	20.65	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.04	21.74	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.97	21.67	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.99	21.69	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.01	20.71	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.41	20.11	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	20.49	20.19	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	20.55	20.25	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	19.84	19.54	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	20.51	20.21	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	20.64	20.34	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.59	20.29	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	19.92	19.62	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	20.64	20.34	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	20.62	20.32	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.55	20.25	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	19.99	19.69	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#0	17.54	17.24	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#49	17.63	17.33	33.00	PASS
Band38	20MHz	256QAM	37850	1RB#99	17.75	17.45	33.00	PASS
Band38	20MHz	256QAM	37850	100RB#0	17.85	17.55	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#0	17.66	17.36	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#49	17.78	17.48	33.00	PASS
Band38	20MHz	256QAM	38000	1RB#99	17.86	17.56	33.00	PASS



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Band38	20MHz	256QAM	38000	100RB#0	17.94	17.64	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#0	17.78	17.48	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#49	17.77	17.47	33.00	PASS
Band38	20MHz	256QAM	38150	1RB#99	17.77	17.47	33.00	PASS
Band38	20MHz	256QAM	38150	100RB#0	18.02	17.72	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	7.00	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.24	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.28	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	7.84	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	7.74	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	7.76	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.32	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.34	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.52	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	8.46	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	8.36	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	8.52	13	PASS



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Test Graphs

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



01:14:18 31.05.2023

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



16:51:20 29.05.2023

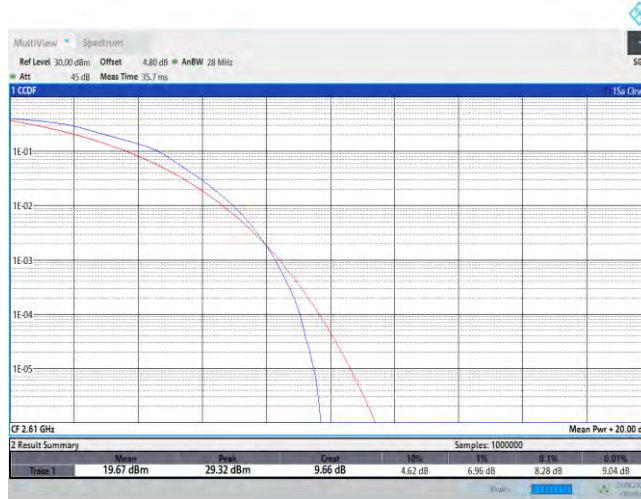


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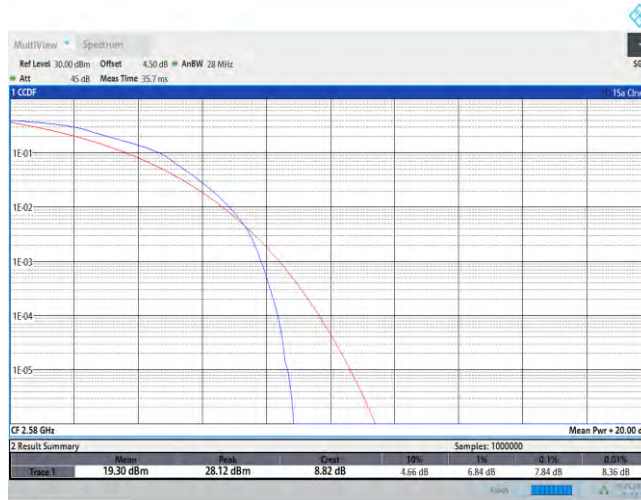
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Band38-20MHz-QPSK-38150-100RB#0



00:49:48 29. 05. 2023

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



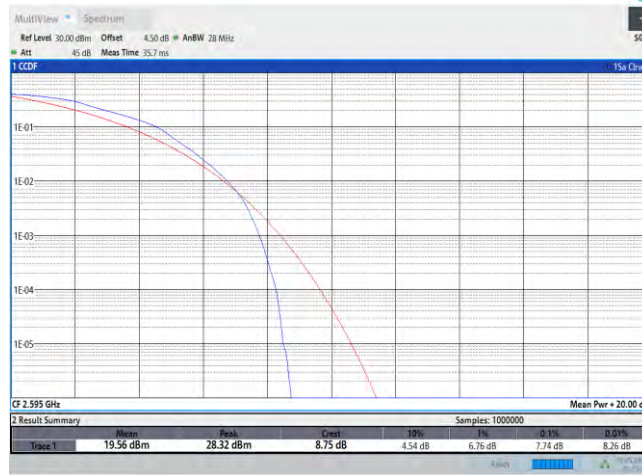
01:14:34 31. 05. 2023



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



01:15:43 31.05.2023

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



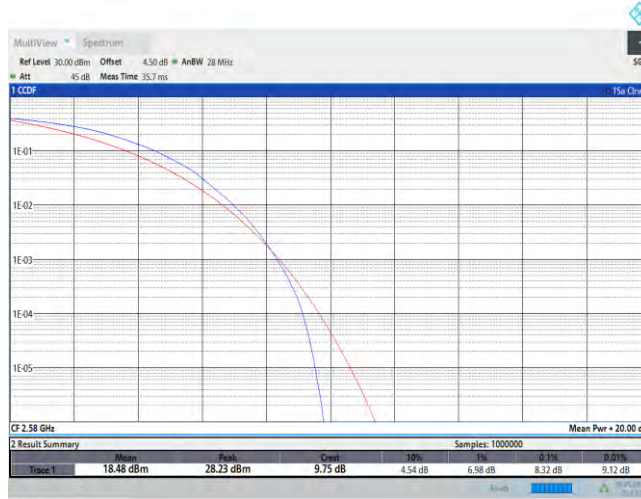
01:16:54 31.05.2023



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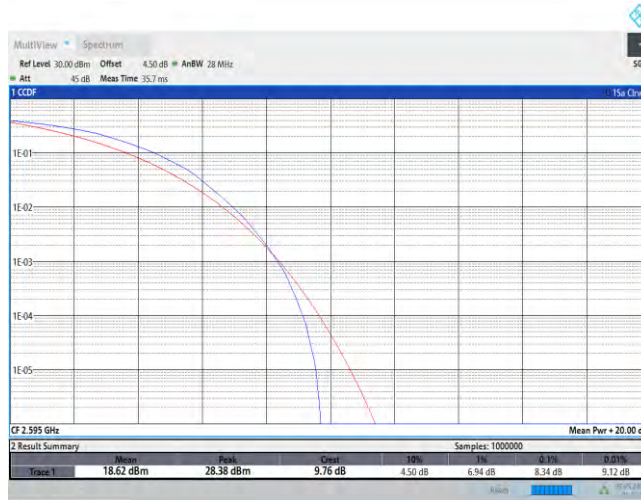
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Band38-20MHz-64QAM-37850-100RB#0



01:14:51 31.05.2023

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



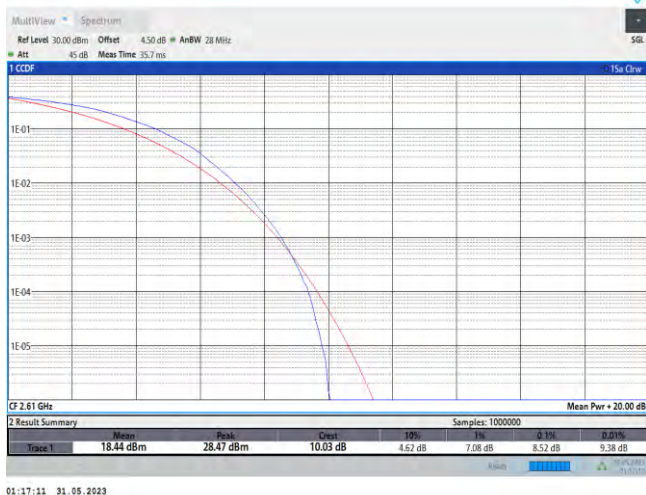
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Band38-20MHz-64QAM-38150-100RB#0



01:17:11 31.05.2023

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



01:15:08 31.05.2023



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



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



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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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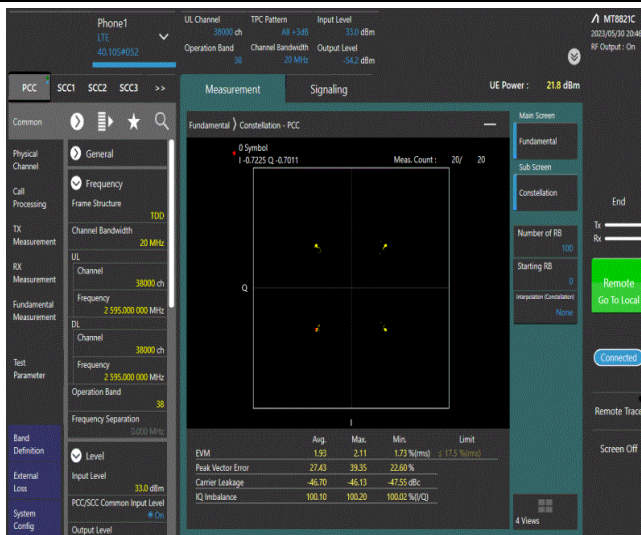
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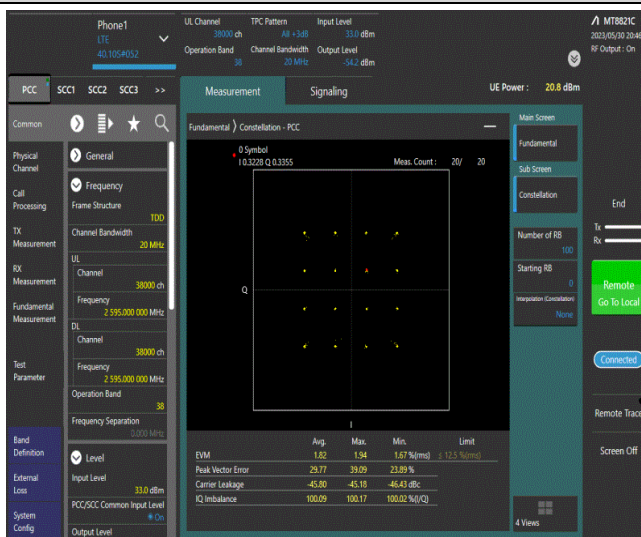
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Test Graphs

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



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

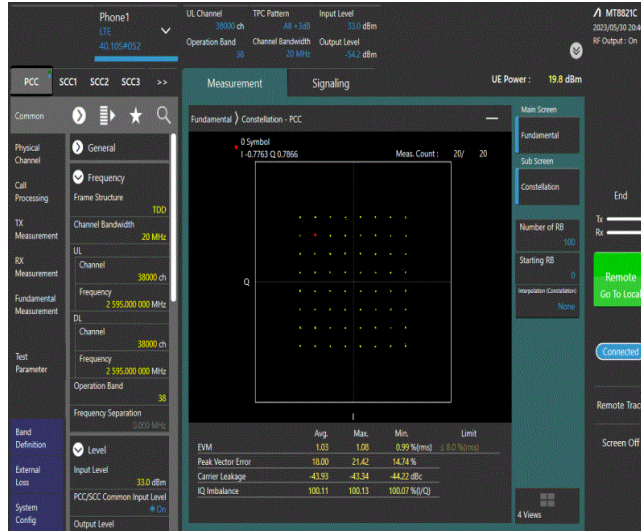


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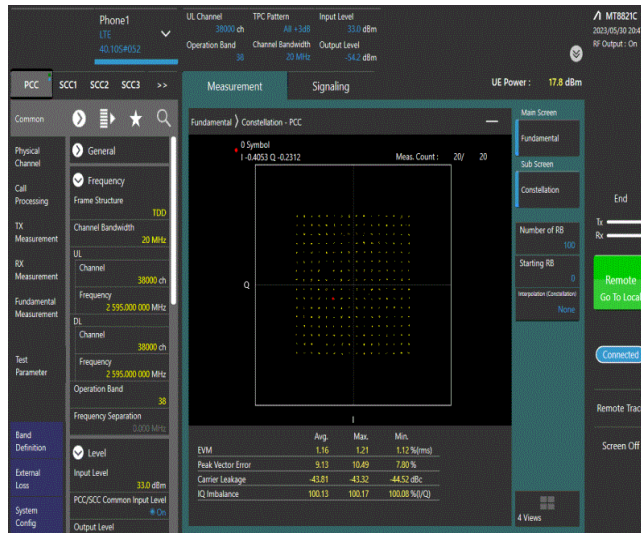
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Band38-20MHz-64QAM-38000-100RB#0



Band38-20MHz-256QAM-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	4.465	4.77	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.460	4.84	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.477	4.86	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.483	4.83	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.476	4.82	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.83	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.467	4.73	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.475	4.81	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.474	4.88	PASS
Band38	5MHz	256QAM	37775	25RB#0	4.468	4.87	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.468	4.92	PASS
Band38	5MHz	256QAM	38225	25RB#0	4.460	4.93	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.895	9.60	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.962	9.60	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.937	9.58	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.921	9.68	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.924	9.54	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.929	9.58	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.949	9.72	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.952	9.60	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.962	9.58	PASS
Band38	10MHz	256QAM	37800	50RB#0	8.949	9.52	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.947	9.66	PASS
Band38	10MHz	256QAM	38200	50RB#0	8.909	9.64	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.443	14.46	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.407	14.43	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.449	14.58	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.472	14.28	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.490	14.70	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.443	14.58	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.461	15.06	PASS



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Band38	15MHz	64QAM	38000	75RB#0	13.444	14.55	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.472	14.55	PASS
Band38	15MHz	256QAM	37825	75RB#0	13.399	14.52	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.453	14.31	PASS
Band38	15MHz	256QAM	38175	75RB#0	13.463	14.49	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.890	19.04	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.917	18.92	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.799	19.04	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.936	19.60	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.905	19.12	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.874	19.04	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.943	19.80	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.860	19.96	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.907	18.88	PASS
Band38	20MHz	256QAM	37850	100RB#0	17.872	19.08	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.882	19.20	PASS
Band38	20MHz	256QAM	38150	100RB#0	17.899	19.16	PASS



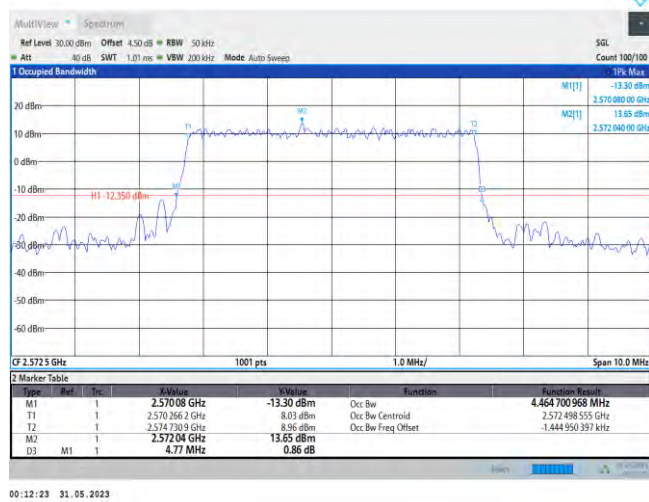
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Test Graphs

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



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



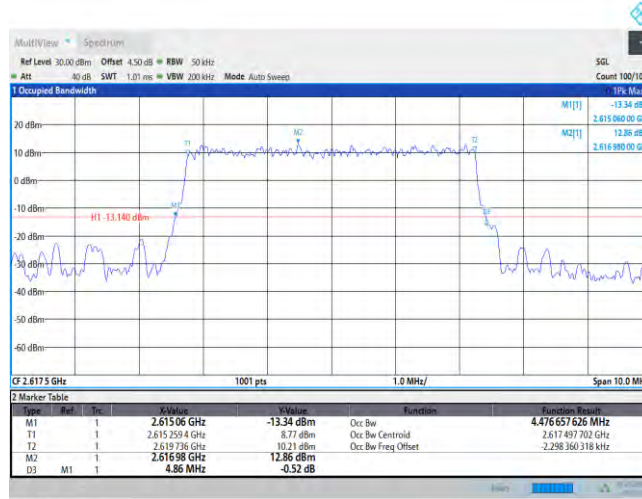
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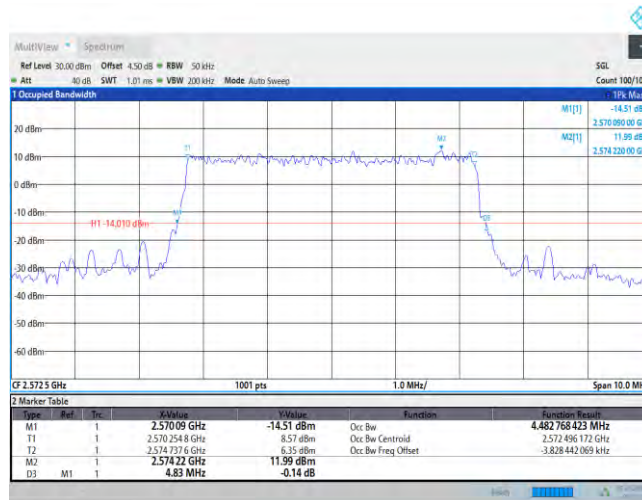
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Band38-5MHz-QPSK-38225-25RB#0



00:14:16 31.05.2023

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



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



00:13:34 31. 05. 2023

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



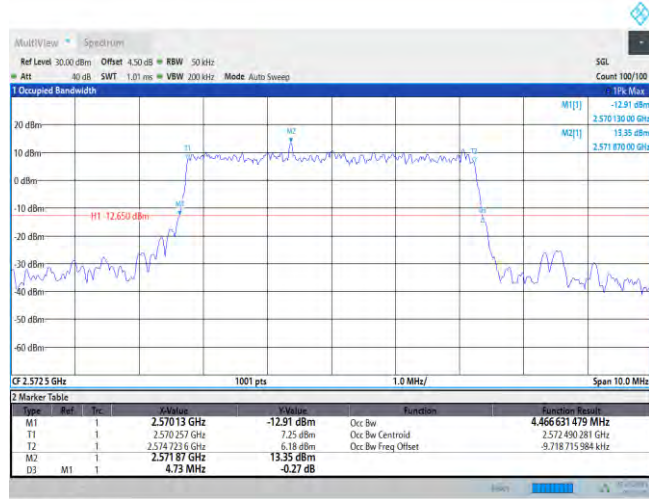
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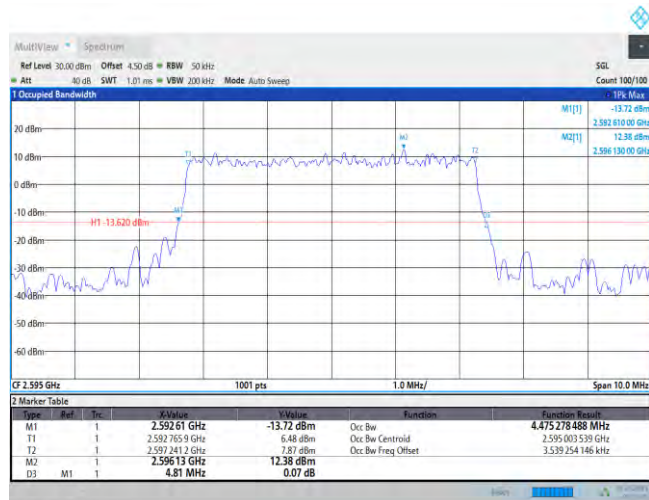
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Band38-5MHz-64QAM-37775-25RB#0



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



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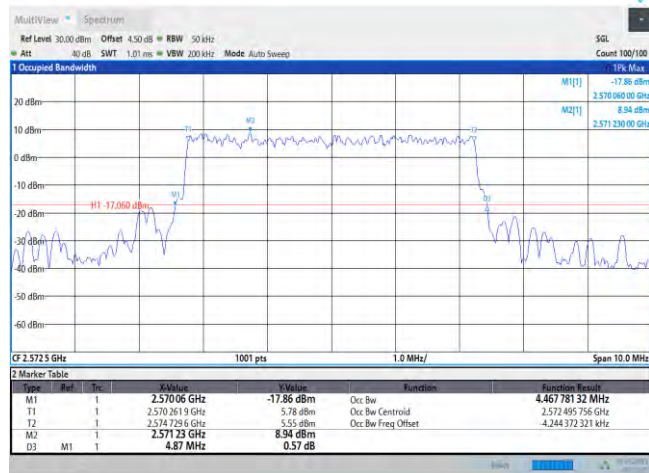
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Band38-5MHz-64QAM-38225-25RB#0



00:14:43 31.05.2023

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



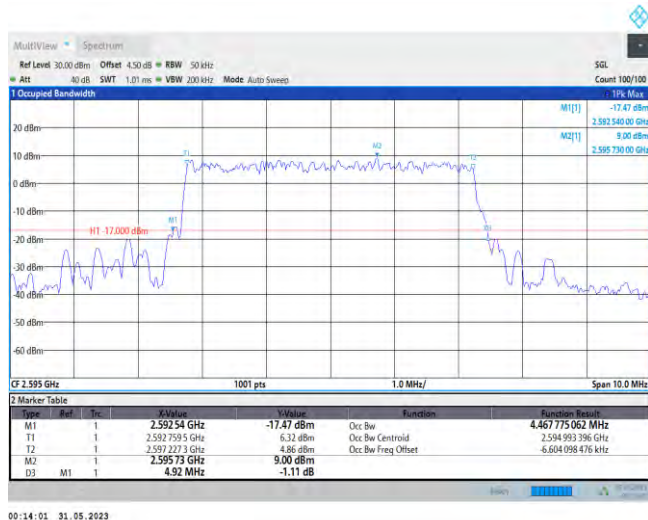
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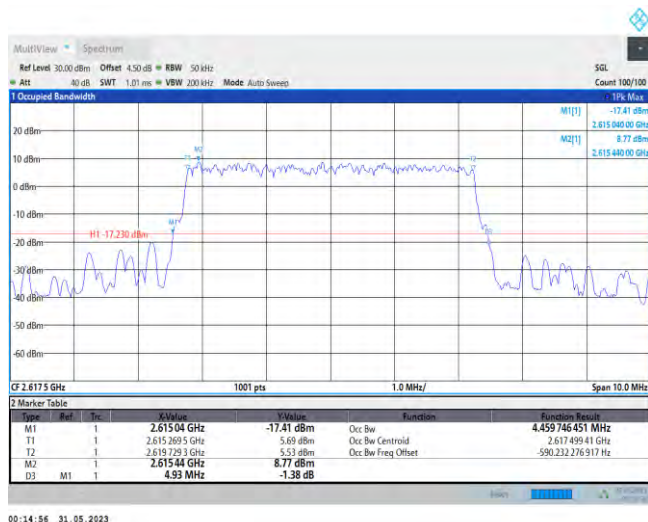
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Band38-5MHz-256QAM-38000-25RB#0



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



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



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



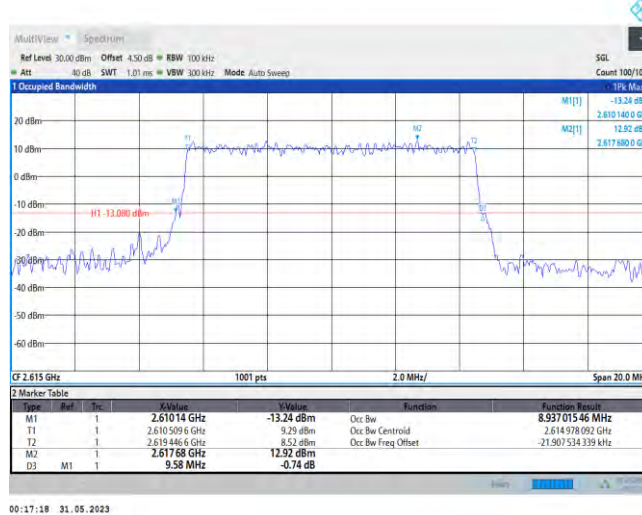
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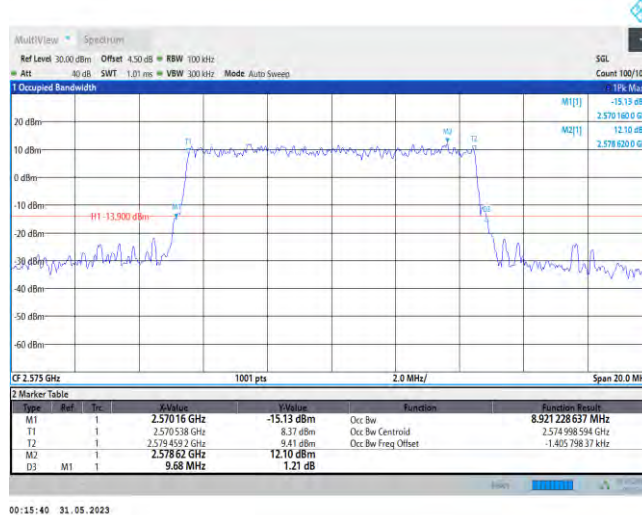
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Band38-10MHz-QPSK-38200-50RB#0



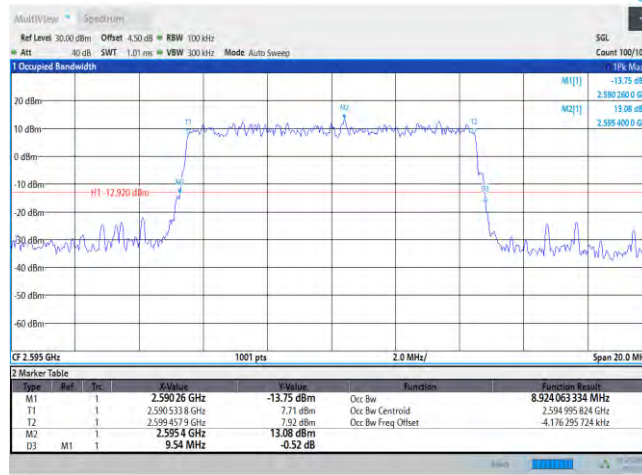
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Band38-10MHz-16QAM-38000-50RB#0



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



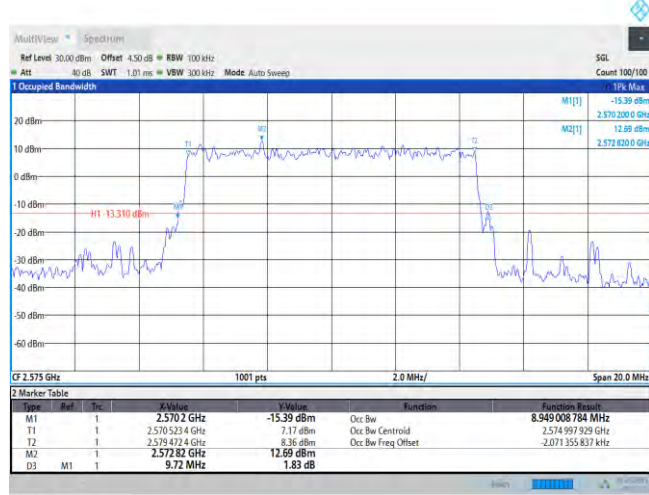
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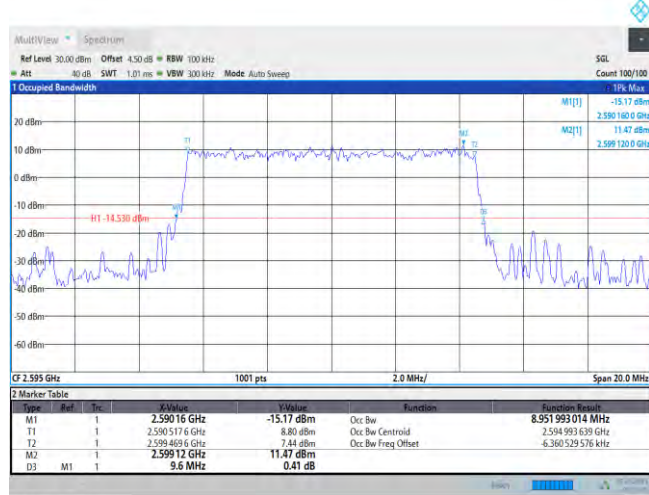
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Band38-10MHz-64QAM-37800-50RB#0



00:15:53 31.05.2023

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



00:16:49 31.05.2023



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



00:17:45 31.05.2023

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



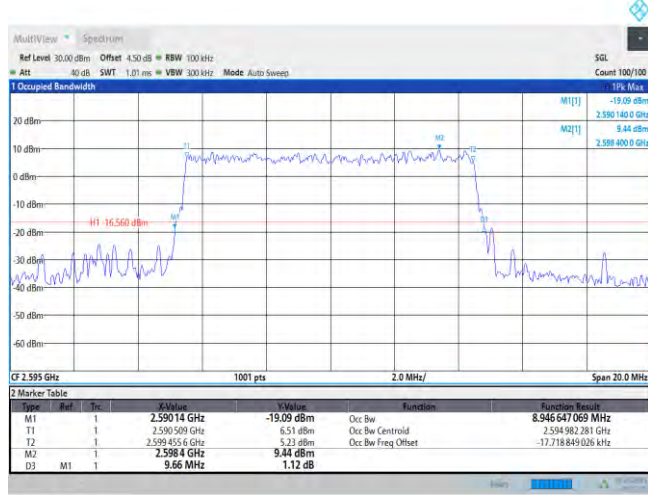
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Band38-10MHz-256QAM-38000-50RB#0



00:17:03 31.05.2023

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



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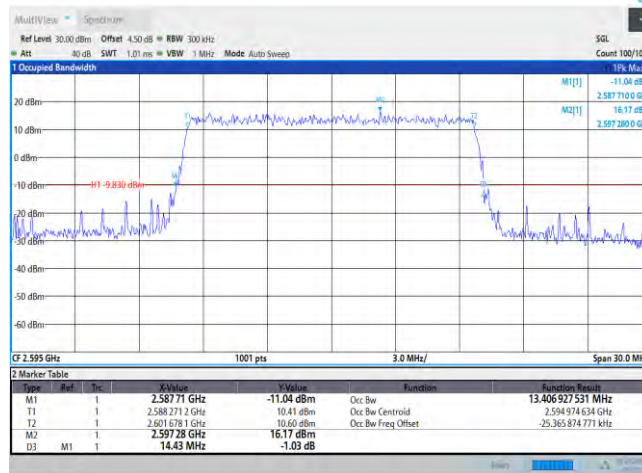
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Band38-15MHz-QPSK-37825-75RB#0



00:18:27 31.05.2023

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



00:19:22 31.05.2023



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



00:20:20 31.05.2023

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



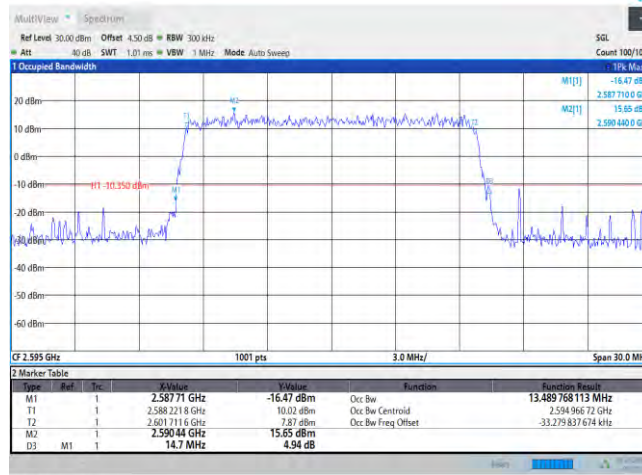
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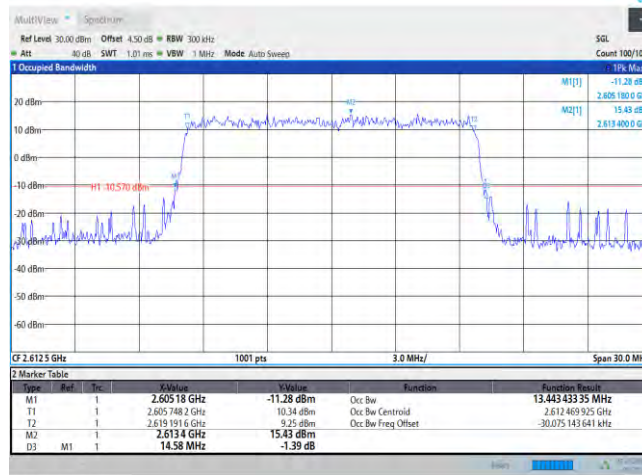
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Band38-15MHz-16QAM-38000-75RB#0



00:19:36 31.05.2023

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



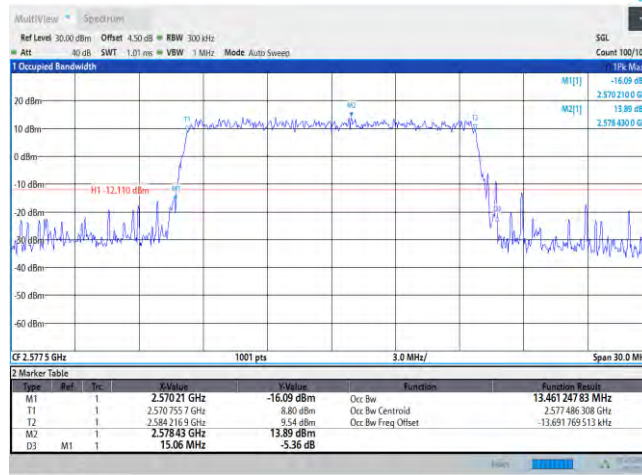
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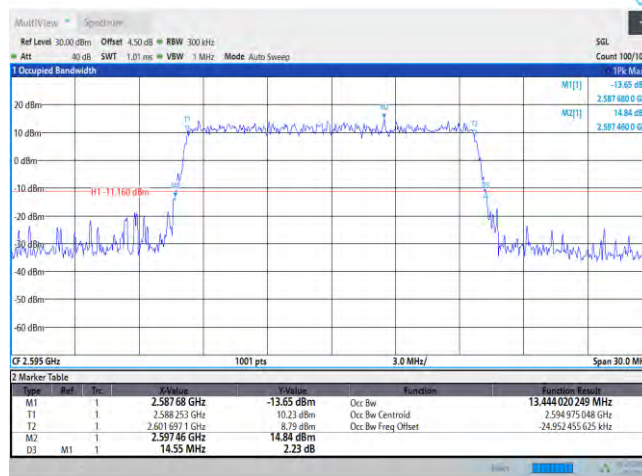
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Band38-15MHz-64QAM-37825-75RB#0



00:18:53 31.05.2023

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



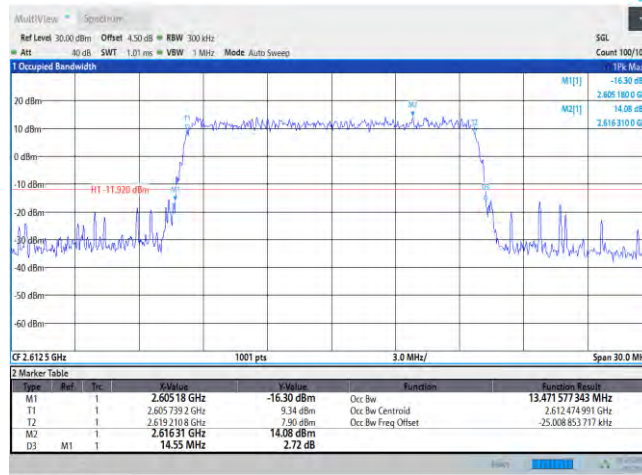
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Band38-15MHz-64QAM-38175-75RB#0



00:20:47 31.05.2023

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



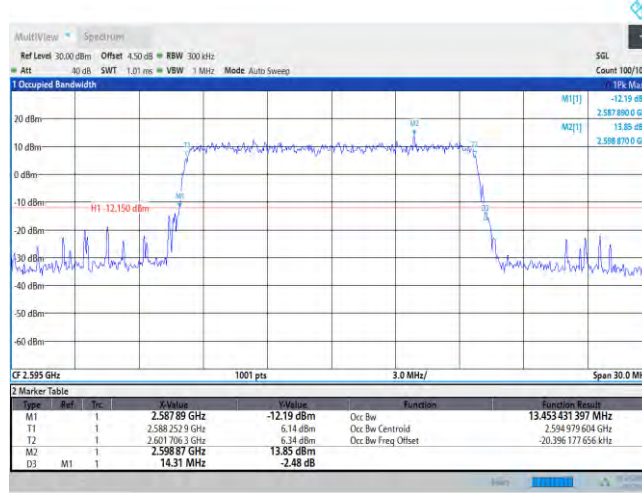
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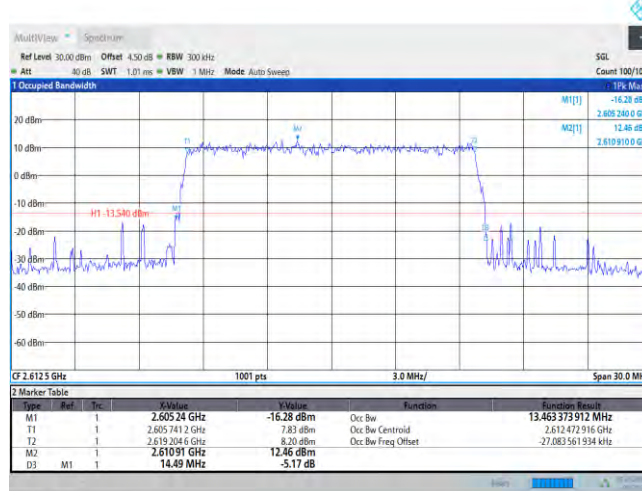
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Band38-15MHz-256QAM-38000-75RB#0



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



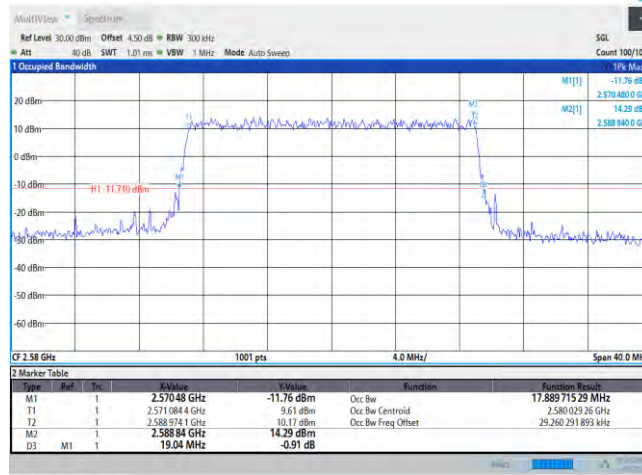
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Band38-20MHz-QPSK-37850-100RB#0



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



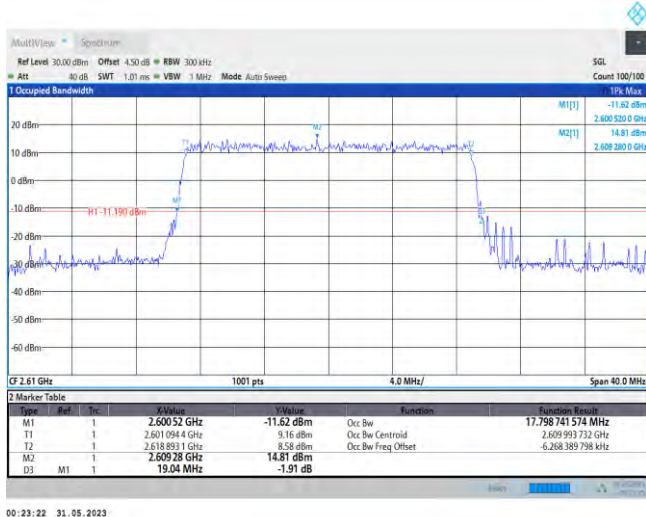
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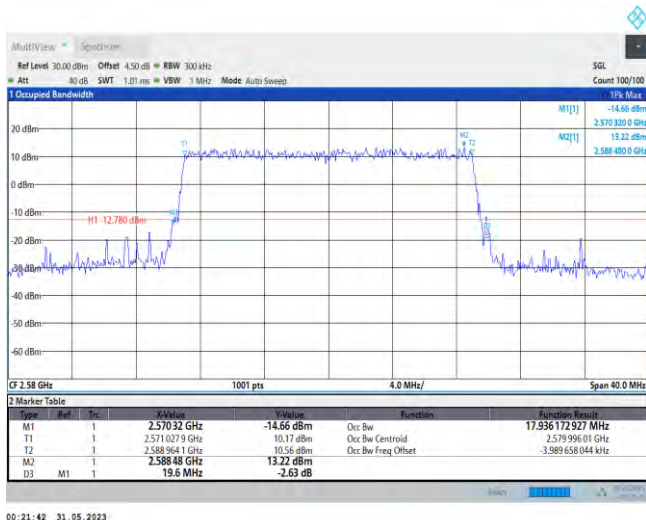
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Band38-20MHz-QPSK-38150-100RB#0



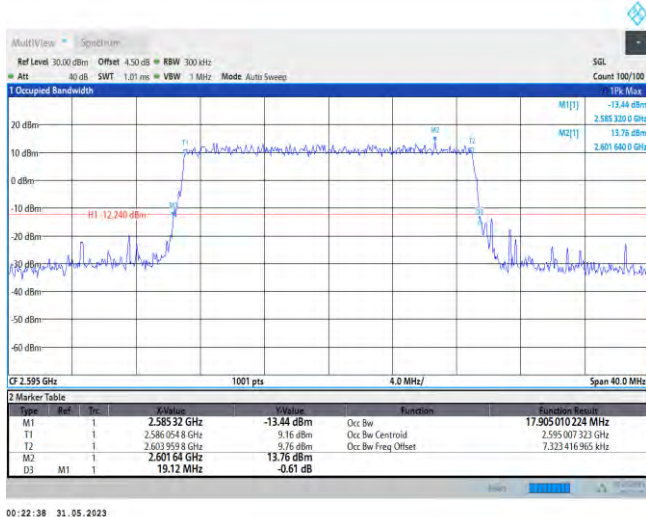
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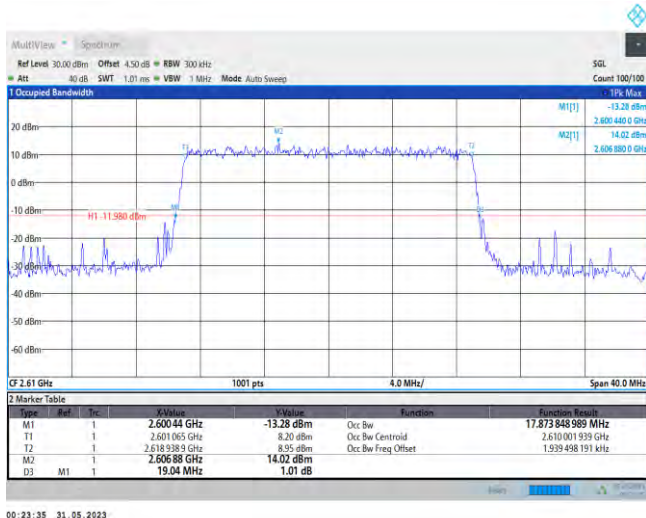
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Band38-20MHz-16QAM-38000-100RB#0



00:22:38 31.05.2023

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



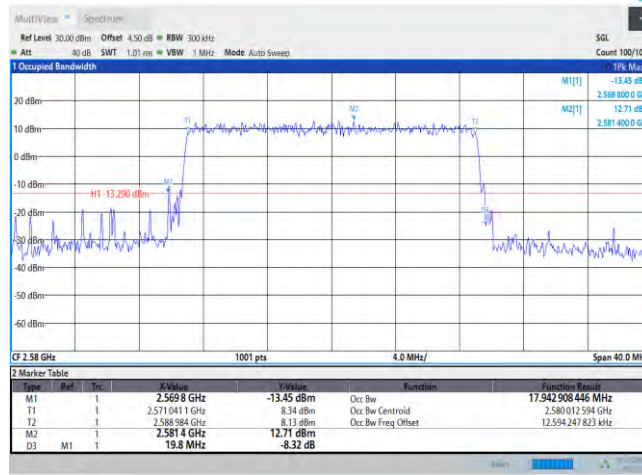
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Band38-20MHz-64QAM-37850-100RB#0



00:21:55 31.05.2023

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



00:22:51 31.05.2023



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



00:23:49 31.05.2023

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



00:22:09 31.05.2023



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



00:23:04 31.05.2023

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



00:24:02 31.05.2023



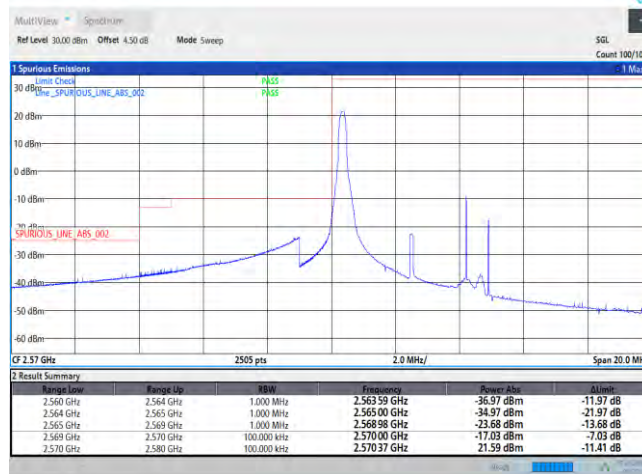
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Band Edge

Test Graphs

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



00:27:04 31.05.2023

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



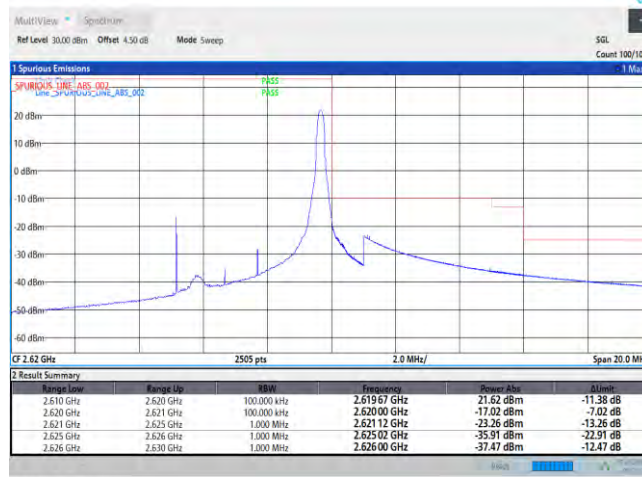
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Band38-5MHz-QPSK-38225-1RB#24



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



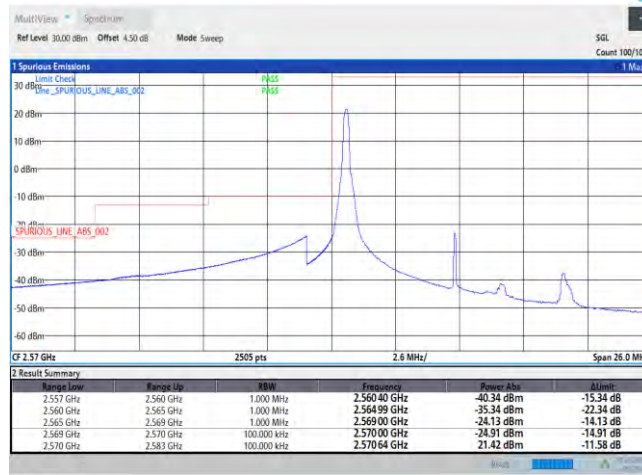
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Band38-10MHz-QPSK-37800-1RB#0



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



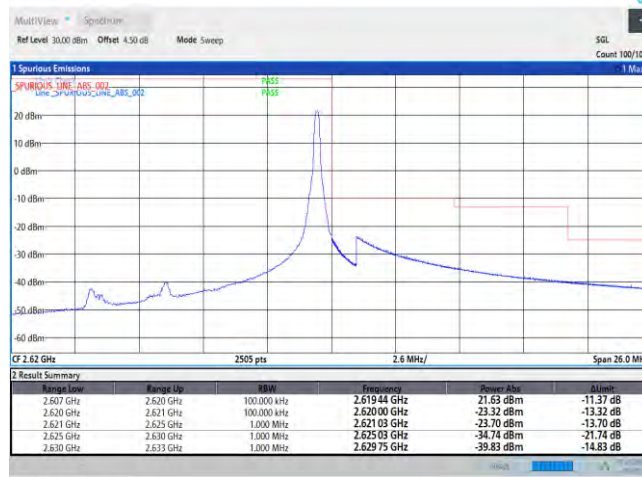
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Band38-10MHz-QPSK-38200-1RB#49



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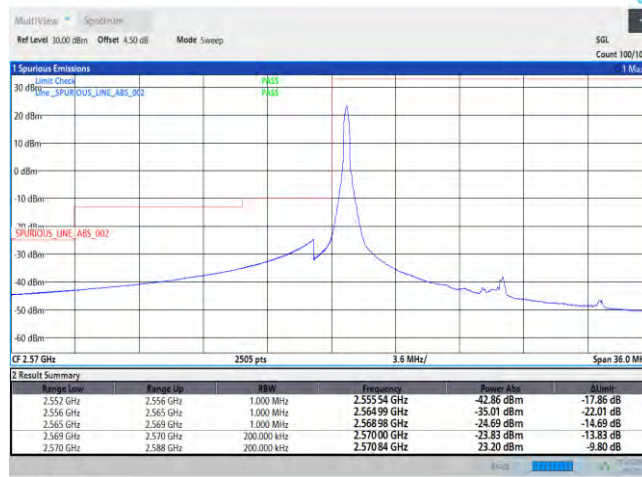
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Band38-15MHz-QPSK-37825-1RB#0



00:50:32 31. 05. 2023

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



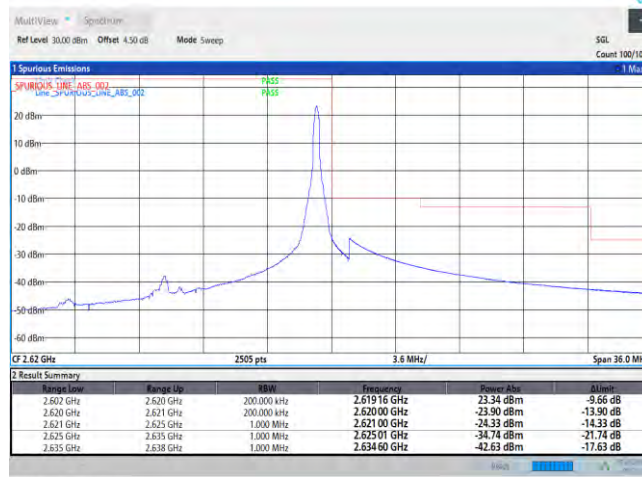
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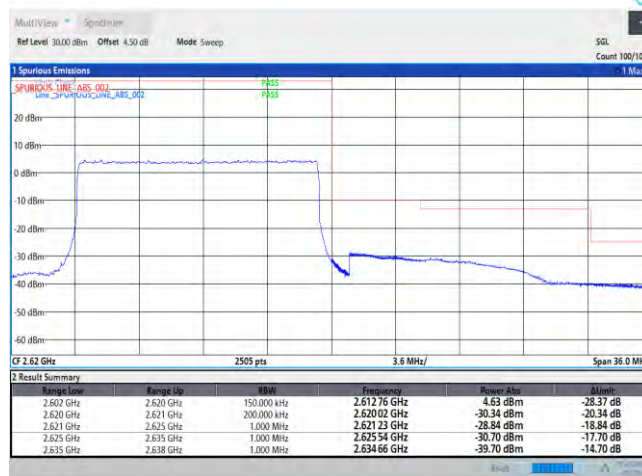
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Band38-15MHz-QPSK-38175-1RB#74



00:56:21 31. 05. 2023

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



00:59:07 31. 05. 2023



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



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



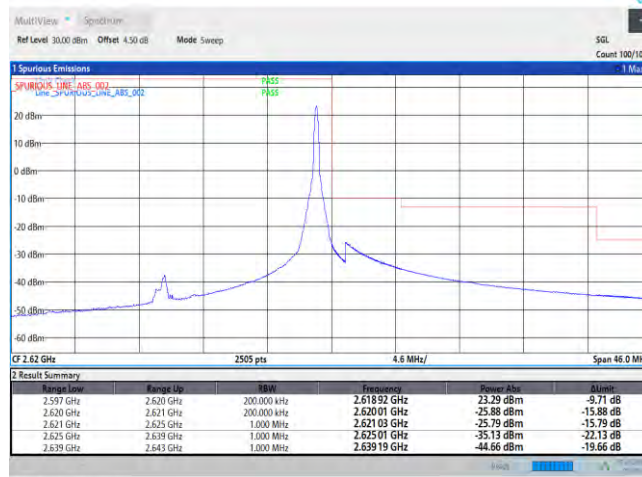
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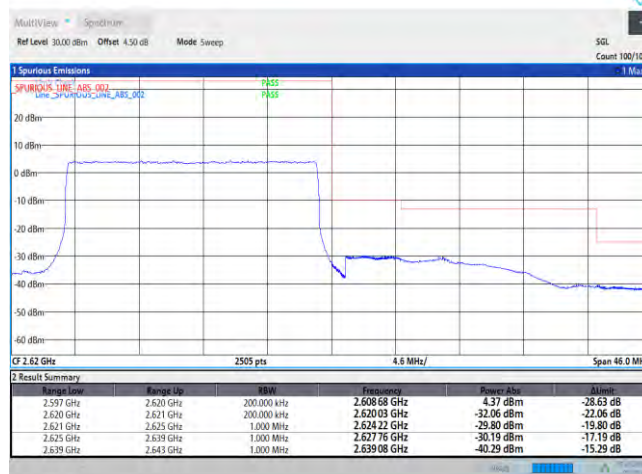
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Band38-20MHz-QPSK-38150-1RB#99



01:08:01 31.05.2023

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



01:10:46 31.05.2023



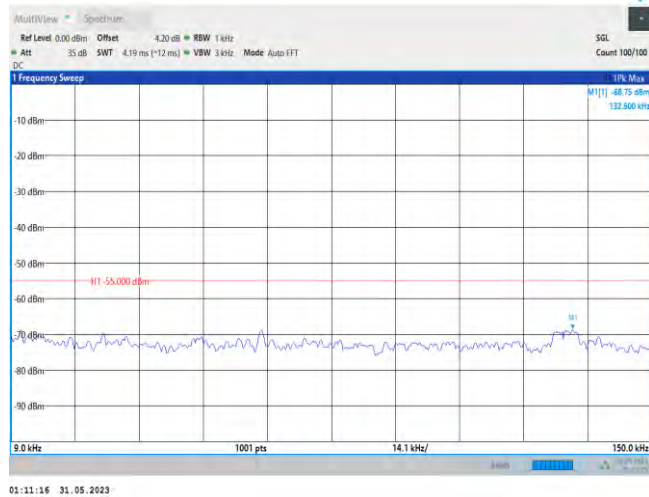
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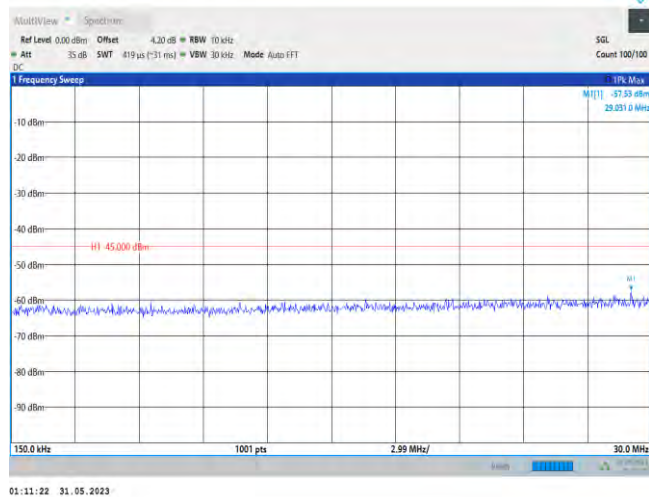
Conducted Spurious Emission

Test Graphs

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



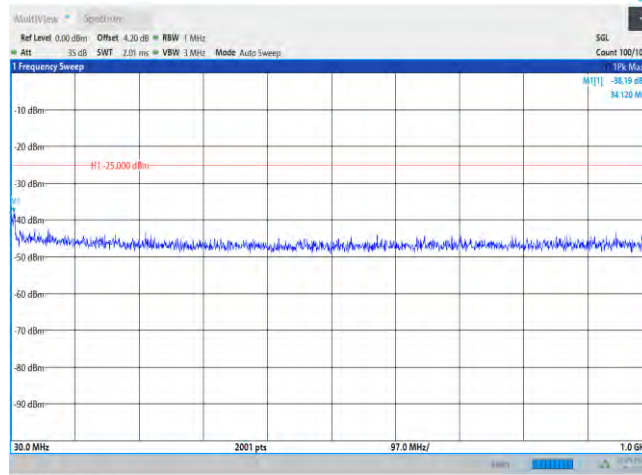
Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



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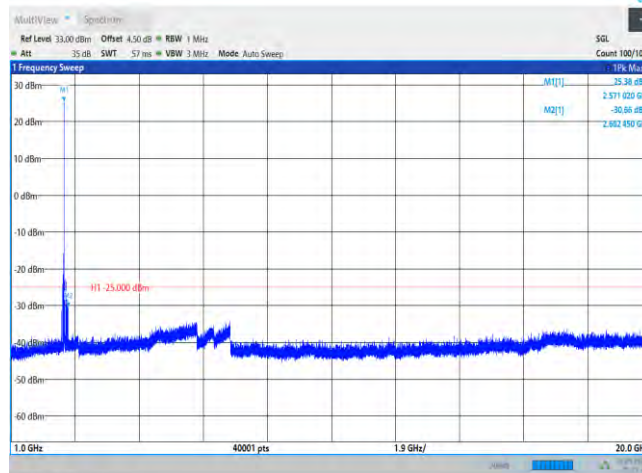
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



01:11:26 31.05.2023

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



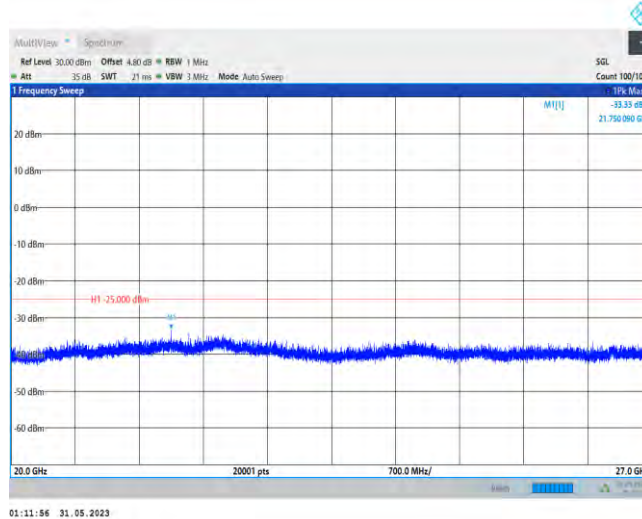
01:11:42 31.05.2023



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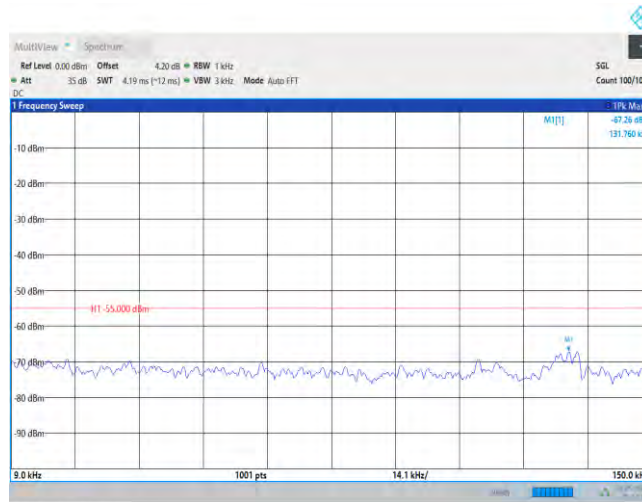
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



01:11:56 31.05.2023

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



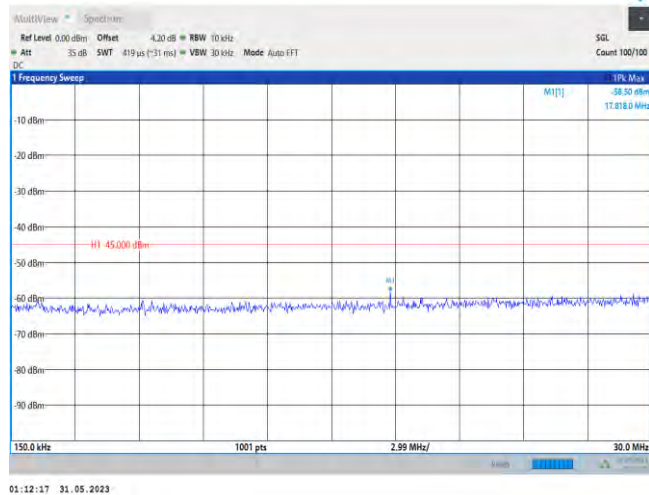
01:12:11 31.05.2023



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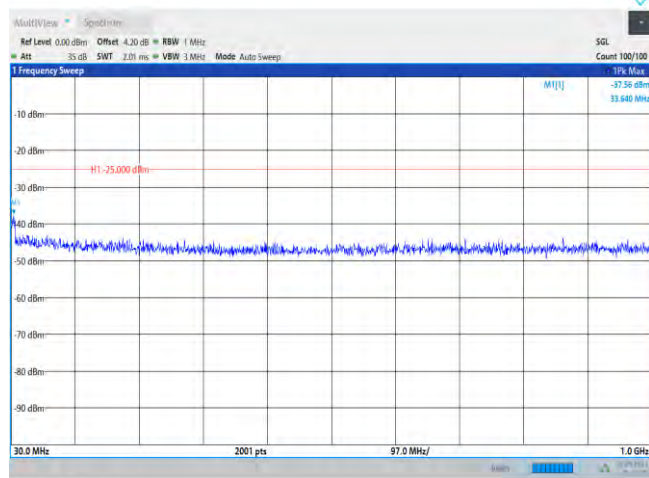
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



01:12:17 31.05.2023

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



01:12:21 31.05.2023

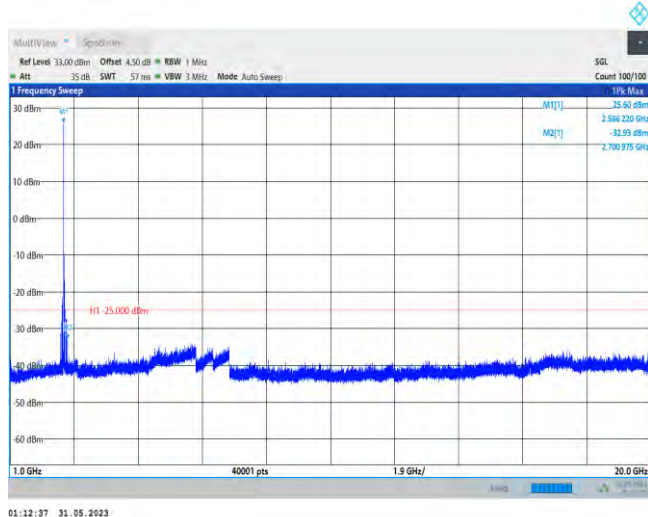


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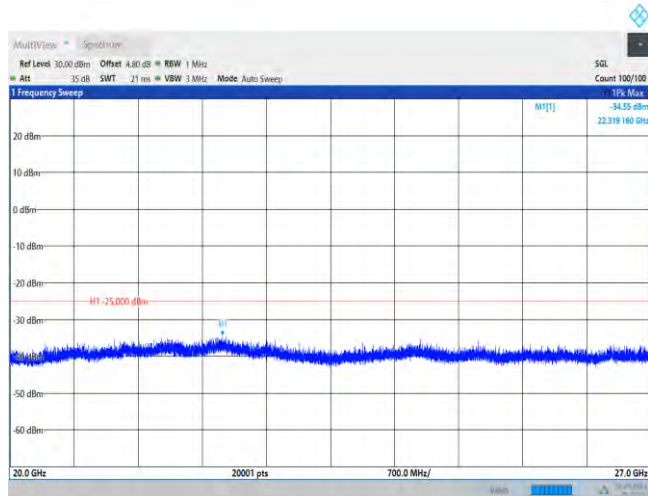
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



01:12:37 31.05.2023

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



01:12:51 31.05.2023

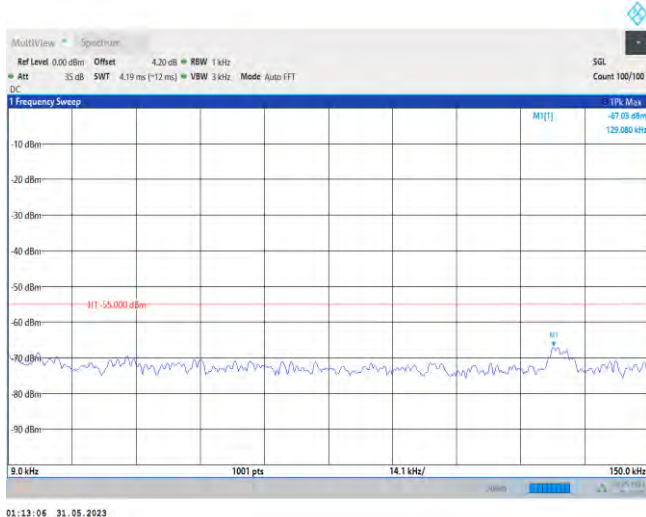


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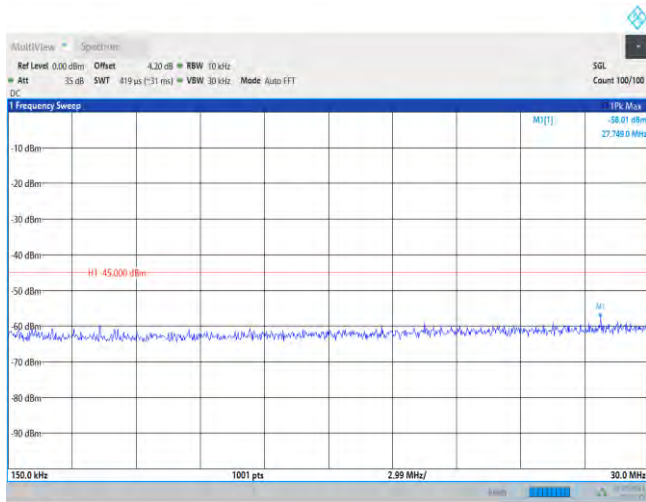
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



01:13:06 31.05.2023

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



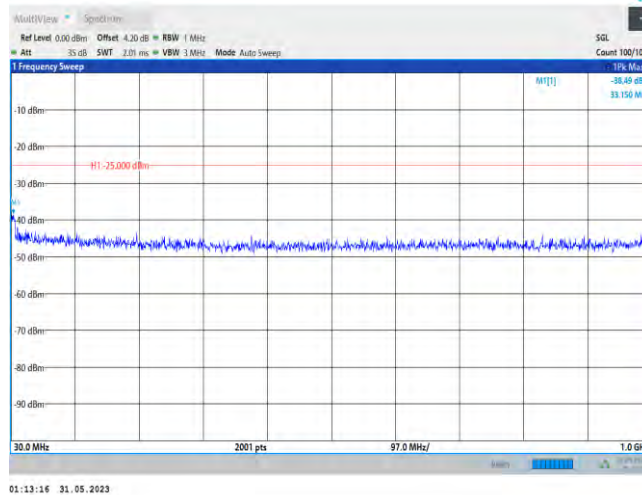
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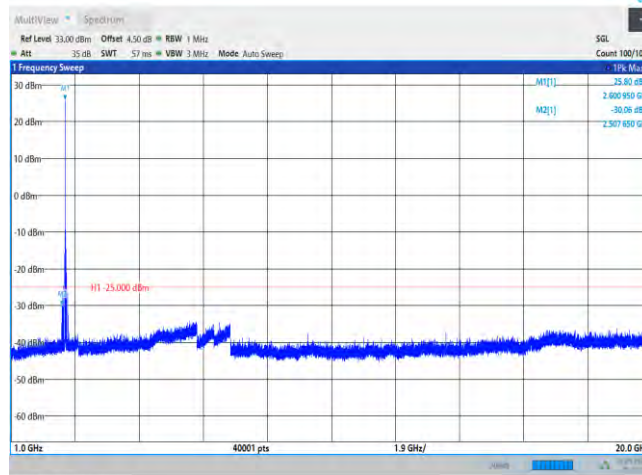
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



01:13:16 31.05.2023

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



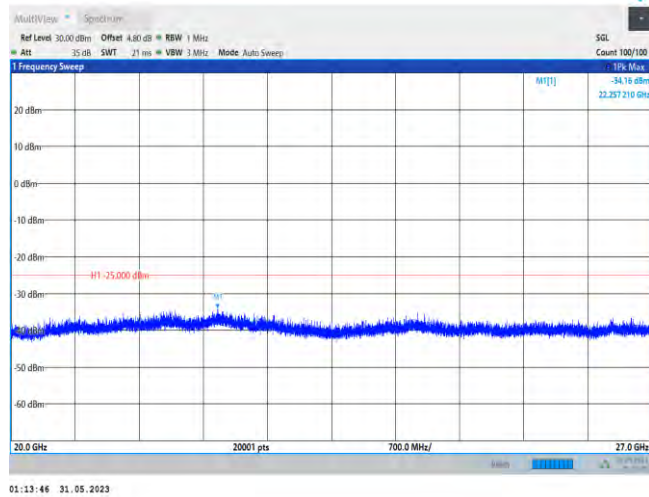
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 38_20MHz _ TM1
 Test Channel = LOW ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.75	-45.33	32.96	-66.88	-25.00	41.88	281	0	Horizontal
2	7713.2700	39.57	-43.01	36.61	-62.09	-25.00	37.09	147	288	Horizontal
3	10284.3600	32.70	-39.15	38.83	-62.88	-25.00	37.88	225	360	Horizontal
4	12855.4500	29.54	-36.99	39.69	-63.02	-25.00	38.02	159	306	Horizontal
5	15426.5400	27.15	-34.00	38.67	-63.43	-25.00	38.43	162	53	Horizontal
6	17997.6300	30.25	-34.58	42.24	-57.35	-25.00	32.35	132	53	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.54	-45.33	32.96	-67.09	-25.00	42.09	225	0	Vertical
2	7713.2700	39.28	-43.01	36.61	-62.38	-25.00	37.38	187	218	Vertical
3	10284.3600	33.96	-39.15	38.83	-61.62	-25.00	36.62	126	36	Vertical
4	12855.4500	28.98	-36.99	39.69	-63.58	-25.00	38.58	169	181	Vertical
5	15426.5400	26.13	-34.00	38.67	-64.45	-25.00	39.45	121	127	Vertical
6	17997.6300	30.55	-34.58	42.24	-57.05	-25.00	32.05	159	306	Vertical



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Test Band = LTE Band 38_20MHz _ TM1
Test Channel = MID ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3809	43.74	-45.95	30.35	-67.12	-25.00	42.12	228	36	Horizontal
2	5172.1800	41.52	-45.30	32.97	-66.07	-25.00	41.07	159	18	Horizontal
3	7758.2700	39.05	-42.65	36.70	-62.16	-25.00	37.16	123	234	Horizontal
4	10344.3600	33.04	-39.05	38.85	-62.43	-25.00	37.43	154	360	Horizontal
5	12930.4500	29.25	-37.18	39.76	-63.43	-25.00	38.43	191	126	Horizontal
6	15516.5400	26.01	-35.30	38.55	-66.00	-25.00	41.00	268	353	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3812	43.77	-45.96	30.36	-67.10	-25.00	42.10	221	233	Vertical
2	5172.1800	41.55	-45.30	32.97	-66.04	-25.00	41.04	187	16	Vertical
3	7758.2700	39.37	-42.65	36.70	-61.84	-25.00	36.84	125	34	Vertical
4	10344.3600	33.61	-39.05	38.85	-61.86	-25.00	36.86	159	215	Vertical
5	12930.4500	28.92	-37.18	39.76	-63.76	-25.00	38.76	223	16	Vertical
6	15516.5400	25.48	-35.30	38.55	-66.53	-25.00	41.53	154	53	Vertical



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Test Band = LTE Band 38_20MHz _ TM1
Test Channel = HIGH ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4032	43.90	-45.95	30.85	-66.46	-25.00	41.46	225	196	Horizontal
2	5202.1800	41.77	-45.28	32.99	-65.78	-25.00	40.78	154	359	Horizontal
3	7803.2700	39.41	-42.33	36.78	-61.39	-25.00	36.39	156	271	Horizontal
4	10404.3600	33.37	-39.00	38.86	-62.03	-25.00	37.03	189	218	Horizontal
5	13005.4500	28.31	-37.31	39.83	-64.43	-25.00	39.43	221	145	Horizontal
6	15606.5400	25.45	-34.87	38.43	-66.25	-25.00	41.25	231	289	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4262.5	44.08	-45.63	31.23	-65.58	-25.00	40.58	177	231	Vertical
2	5202.1800	41.11	-45.28	32.99	-66.44	-25.00	41.44	159	360	Vertical
3	7803.2700	39.09	-42.33	36.78	-61.71	-25.00	36.71	147	106	Vertical
4	10404.3600	32.79	-39.00	38.86	-62.61	-25.00	37.61	264	87	Vertical
5	13005.4500	27.67	-37.31	39.83	-65.07	-25.00	40.07	285	36	Vertical
6	15606.5400	25.68	-34.87	38.43	-66.02	-25.00	41.02	132	0	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-2.60	-0.001002	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-0.20	-0.000077	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-2.80	-0.001079	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-2.80	-0.001079	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-0.90	-0.000347	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-3.20	-0.001233	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-2.20	-0.000848	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-2.10	-0.000809	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-2.70	-0.001040	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-0.10	-0.000039	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-0.70	-0.000270	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-2.00	-0.000771	PASS

---End of Attachment---



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