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Appendix B.12

LTE Band 38



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

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant3:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.60	22.40	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.65	22.45	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.62	22.42	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.61	21.41	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.69	21.49	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.64	21.44	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.84	21.64	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.76	20.56	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.73	20.53	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.83	20.63	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.84	20.64	33	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.88	19.68	33	PASS
Band38	5MHz	256QAM	37775	1RB#0	19.03	17.83	33	PASS
Band38	5MHz	256QAM	37775	1RB#12	19.00	17.80	33	PASS
Band38	5MHz	256QAM	37775	1RB#24	19.02	17.82	33	PASS
Band38	5MHz	256QAM	37775	25RB#0	19.21	18.01	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.55	22.35	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.63	22.43	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.59	22.39	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.73	21.53	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.78	21.58	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.70	21.50	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.71	21.51	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.83	20.63	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.76	20.56	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.85	20.65	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.87	20.67	33	PASS



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Band38	5MHz	64QAM	38000	25RB#0	20.79	19.59	33	PASS
Band38	5MHz	256QAM	38000	1RB#0	19.15	17.95	33	PASS
Band38	5MHz	256QAM	38000	1RB#12	19.00	17.80	33	PASS
Band38	5MHz	256QAM	38000	1RB#24	19.13	17.93	33	PASS
Band38	5MHz	256QAM	38000	25RB#0	18.98	17.78	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.71	22.51	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.63	22.43	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.65	22.45	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.67	21.47	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.74	21.54	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.80	21.60	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.66	21.46	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.94	20.74	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.87	20.67	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.80	20.60	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.74	20.54	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.91	19.71	33	PASS
Band38	5MHz	256QAM	38225	1RB#0	19.13	17.93	33	PASS
Band38	5MHz	256QAM	38225	1RB#12	19.11	17.91	33	PASS
Band38	5MHz	256QAM	38225	1RB#24	19.31	18.11	33	PASS
Band38	5MHz	256QAM	38225	25RB#0	19.22	18.02	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.66	22.46	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.62	22.42	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.57	22.37	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.56	21.36	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.63	21.43	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.69	21.49	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.83	21.63	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.77	20.57	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.77	20.57	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.88	20.68	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.77	20.57	33	PASS



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Band38	10MHz	64QAM	37800	50RB#0	20.83	19.63	33	PASS
Band38	10MHz	256QAM	37800	1RB#0	18.95	17.75	33	PASS
Band38	10MHz	256QAM	37800	1RB#24	18.94	17.74	33	PASS
Band38	10MHz	256QAM	37800	1RB#49	19.01	17.81	33	PASS
Band38	10MHz	256QAM	37800	50RB#0	19.18	17.98	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.58	22.38	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.71	22.51	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.57	22.37	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.73	21.53	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.77	21.57	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.72	21.52	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.75	21.55	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.93	20.73	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.78	20.58	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.90	20.70	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.87	20.67	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.78	19.58	33	PASS
Band38	10MHz	256QAM	38000	1RB#0	19.15	17.95	33	PASS
Band38	10MHz	256QAM	38000	1RB#24	19.05	17.85	33	PASS
Band38	10MHz	256QAM	38000	1RB#49	19.17	17.97	33	PASS
Band38	10MHz	256QAM	38000	50RB#0	18.93	17.73	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.67	22.47	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.56	22.36	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.57	22.37	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.67	21.47	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.75	21.55	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.85	21.65	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.65	21.45	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.93	20.73	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.87	20.67	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.73	20.53	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.78	20.58	33	PASS



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Band38	10MHz	64QAM	38200	50RB#0	20.85	19.65	33	PASS
Band38	10MHz	256QAM	38200	1RB#0	19.12	17.92	33	PASS
Band38	10MHz	256QAM	38200	1RB#24	19.04	17.84	33	PASS
Band38	10MHz	256QAM	38200	1RB#49	19.26	18.06	33	PASS
Band38	10MHz	256QAM	38200	50RB#0	19.27	18.07	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.62	22.42	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.65	22.45	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.60	22.40	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.53	21.33	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.66	21.46	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.62	21.42	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.81	21.61	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.75	20.55	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.74	20.54	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.88	20.68	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.84	20.64	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.84	19.64	33	PASS
Band38	15MHz	256QAM	37825	1RB#0	18.98	17.78	33	PASS
Band38	15MHz	256QAM	37825	1RB#38	18.97	17.77	33	PASS
Band38	15MHz	256QAM	37825	1RB#74	19.09	17.89	33	PASS
Band38	15MHz	256QAM	37825	75RB#0	19.18	17.98	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.57	22.37	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.66	22.46	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.62	22.42	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.71	21.51	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.83	21.63	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.70	21.50	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.74	21.54	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.87	20.67	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.85	20.65	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.92	20.72	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.79	20.59	33	PASS



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Band38	15MHz	256QAM	38000	1RB#0	19.18	17.98	33	PASS
Band38	15MHz	256QAM	38000	1RB#38	19.02	17.82	33	PASS
Band38	15MHz	256QAM	38000	1RB#74	19.10	17.90	33	PASS
Band38	15MHz	256QAM	38000	75RB#0	18.91	17.71	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.70	22.50	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.61	22.41	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.58	22.38	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.59	21.39	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.69	21.49	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.79	21.59	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.66	21.46	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.86	20.66	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.89	20.69	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.74	20.54	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.79	20.59	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.91	19.71	33	PASS
Band38	15MHz	256QAM	38175	1RB#0	19.09	17.89	33	PASS
Band38	15MHz	256QAM	38175	1RB#38	19.03	17.83	33	PASS
Band38	15MHz	256QAM	38175	1RB#74	19.28	18.08	33	PASS
Band38	15MHz	256QAM	38175	75RB#0	19.26	18.06	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.57	22.37	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.62	22.42	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.61	22.41	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.56	21.36	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.62	21.42	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.69	21.49	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.81	21.61	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.83	20.63	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.76	20.56	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.86	20.66	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.86	20.66	33	PASS



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Band38	20MHz	256QAM	37850	1RB#0	18.98	17.78	33	PASS
Band38	20MHz	256QAM	37850	1RB#49	19.04	17.84	33	PASS
Band38	20MHz	256QAM	37850	1RB#99	19.09	17.89	33	PASS
Band38	20MHz	256QAM	37850	100RB#0	19.20	18.00	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.84	22.64	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.64	22.44	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.55	22.35	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.75	21.55	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.73	21.53	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.73	21.53	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.75	21.55	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.90	20.70	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.77	20.57	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.86	20.66	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.80	20.60	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.74	19.54	33	PASS
Band38	20MHz	256QAM	38000	1RB#0	19.22	18.02	33	PASS
Band38	20MHz	256QAM	38000	1RB#49	19.06	17.86	33	PASS
Band38	20MHz	256QAM	38000	1RB#99	19.11	17.91	33	PASS
Band38	20MHz	256QAM	38000	100RB#0	18.97	17.77	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.76	22.56	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.60	22.40	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.64	22.44	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.61	21.41	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.72	21.52	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.83	21.63	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.70	21.50	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.91	20.71	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.81	20.61	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.71	20.51	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.83	20.63	33	PASS



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Band38	20MHz	64QAM	38150	100RB#0	20.89	19.69	33	PASS
Band38	20MHz	256QAM	38150	1RB#0	19.15	17.95	33	PASS
Band38	20MHz	256QAM	38150	1RB#49	19.09	17.89	33	PASS
Band38	20MHz	256QAM	38150	1RB#99	19.30	18.10	33	PASS
Band38	20MHz	256QAM	38150	100RB#0	19.28	18.08	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	6.86	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.64	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.72	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	7.46	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	7.66	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	7.86	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.08	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.10	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.26	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	8.80	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	8.74	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	8.74	13	PASS



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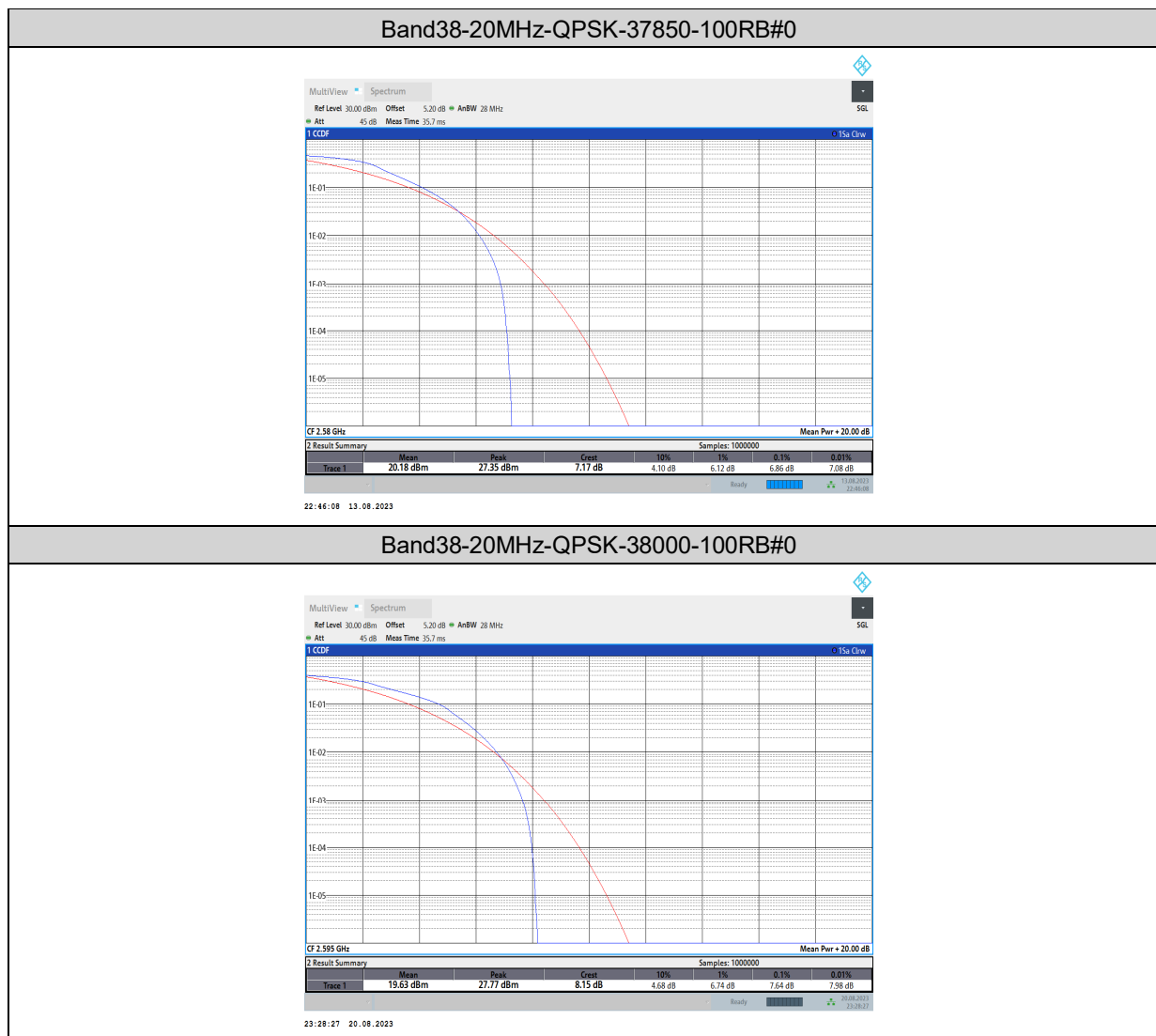
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Test Graphs



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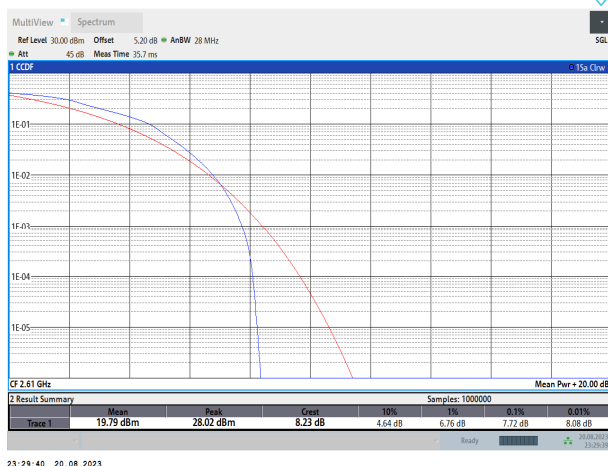
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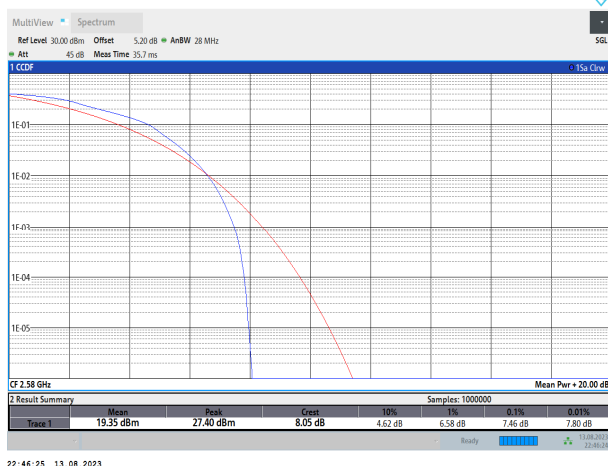
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Band38-20MHz-QPSK-38150-100RB#0



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



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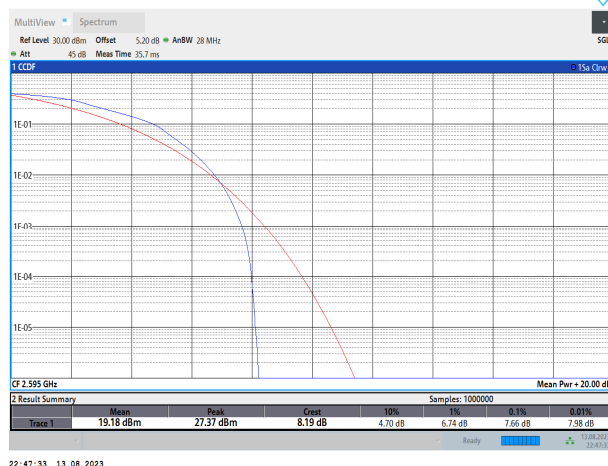
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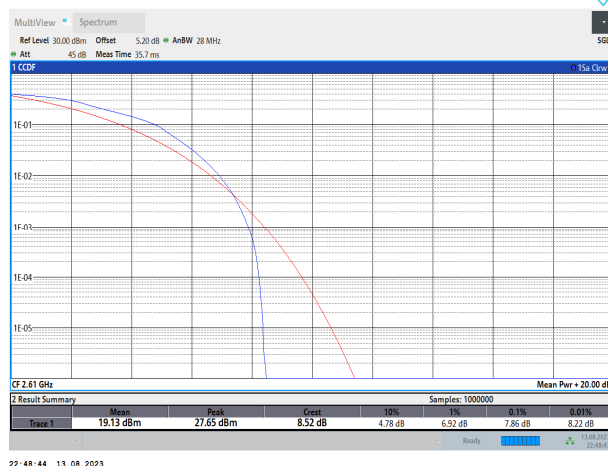
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Band38-20MHz-16QAM-38000-100RB#0



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



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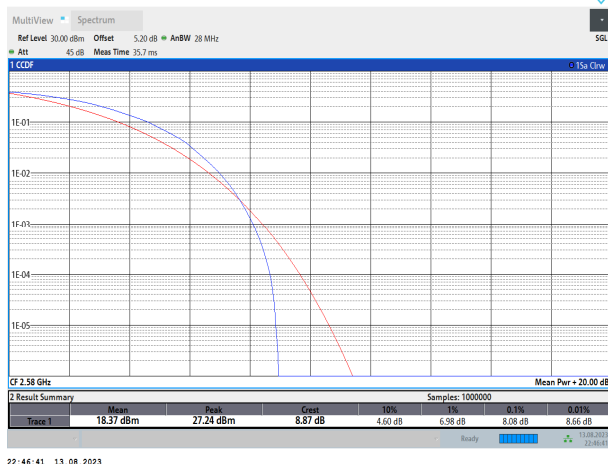
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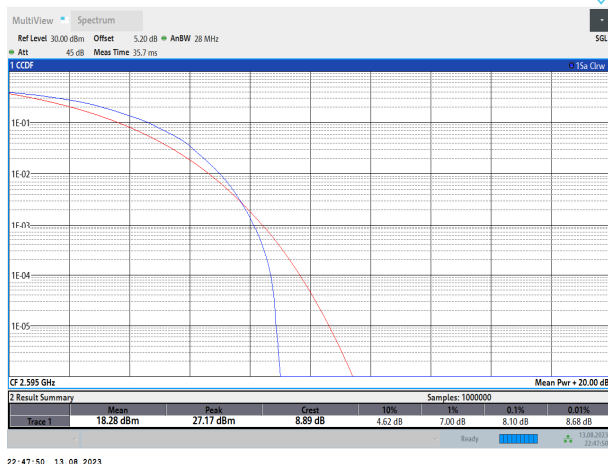
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Band38-20MHz-64QAM-37850-100RB#0



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



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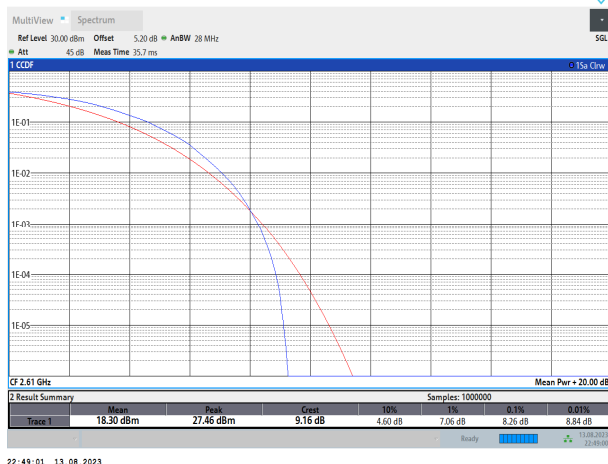
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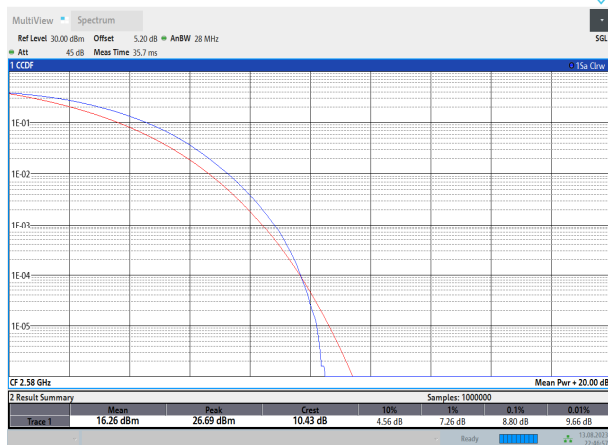
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Band38-20MHz-256QAM-37850-100RB#0



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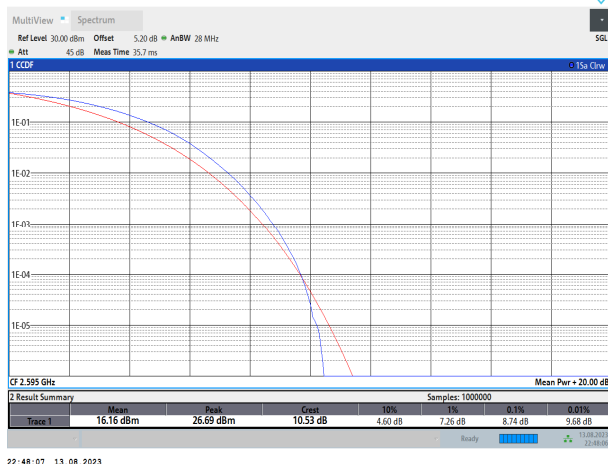
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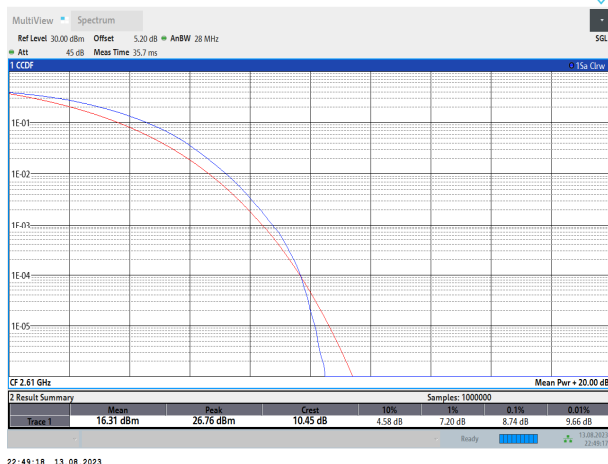
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Band38-20MHz-256QAM-38150-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	38000	25RB#0	4.479	5.06	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.476	4.85	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.477	5.08	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.473	4.97	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.951	9.78	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.951	9.86	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.946	9.76	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.945	9.86	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.486	15.03	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.477	14.97	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.479	15.00	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.472	14.91	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.905	19.68	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.911	19.68	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.911	19.68	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.904	19.64	PASS



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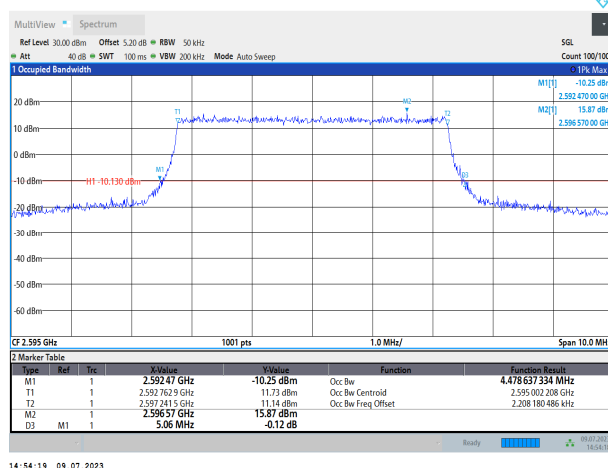
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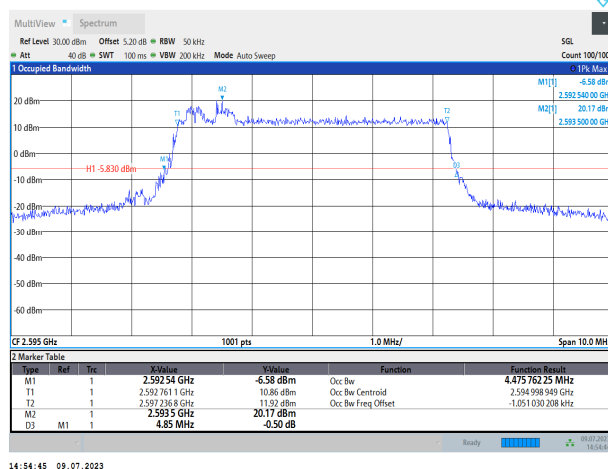
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Test Graphs

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



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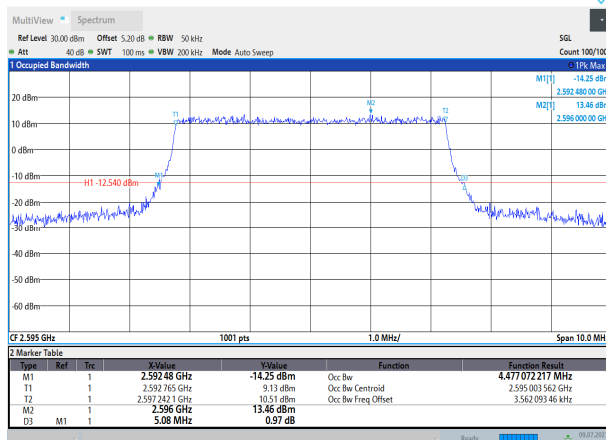


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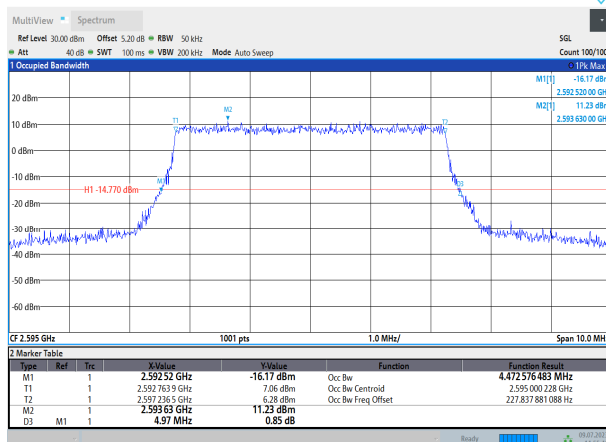
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Band38-5MHz-64QAM-38000-25RB#0



14:55:11 09.07.2023

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



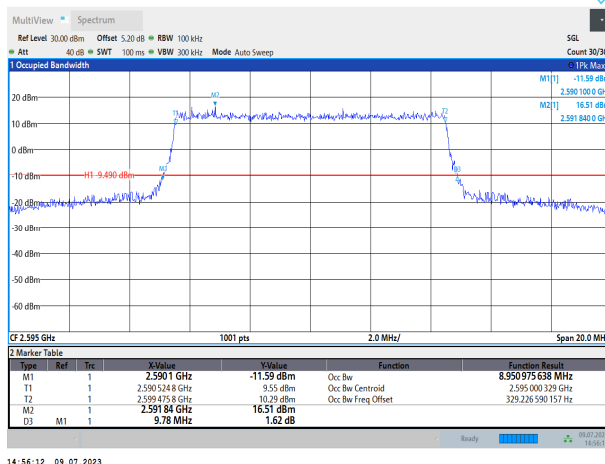
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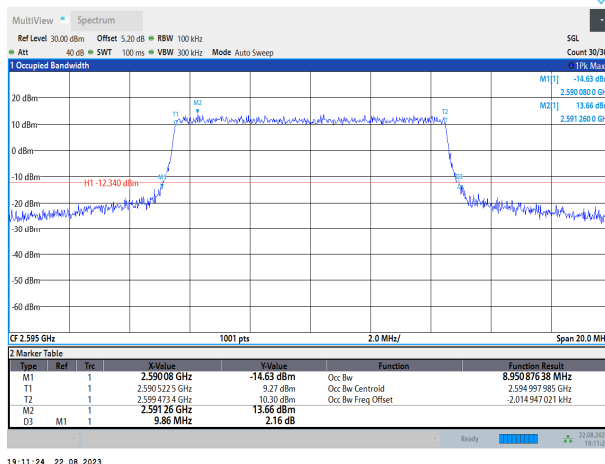
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Band38-10MHz-QPSK-38000-50RB#0



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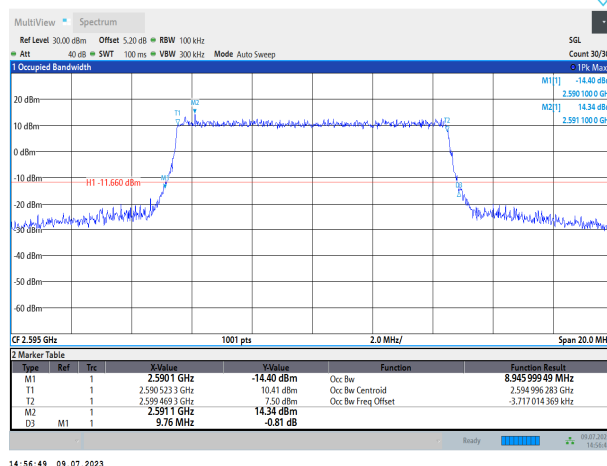


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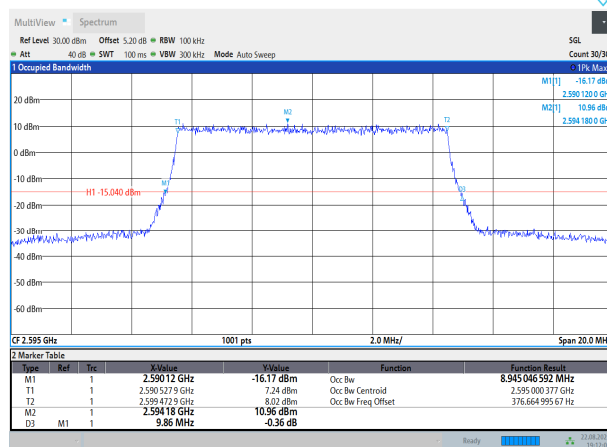
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Band38-10MHz-64QAM-38000-50RB#0



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



19:12:01 22.08.2023



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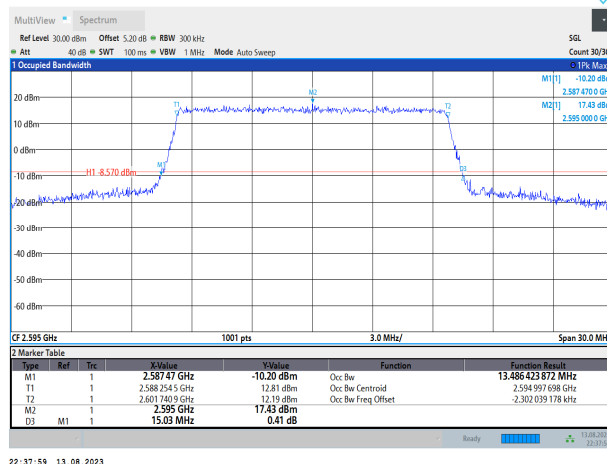
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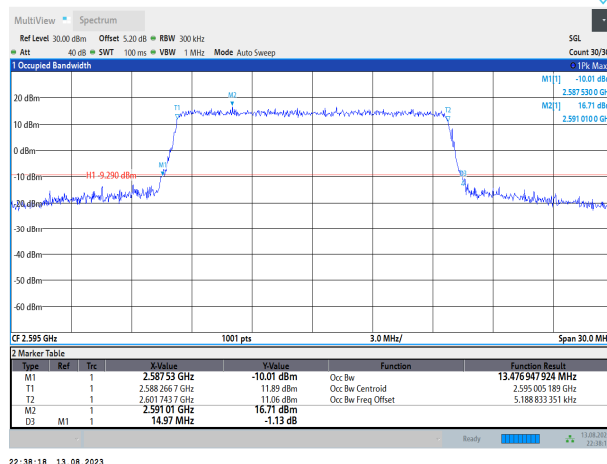
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Band38-15MHz-QPSK-38000-75RB#0



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



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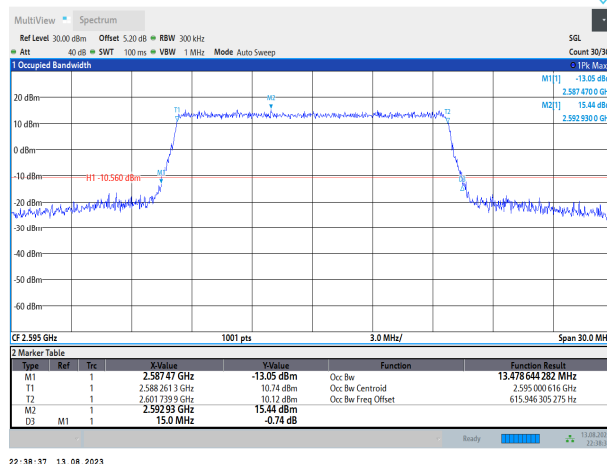
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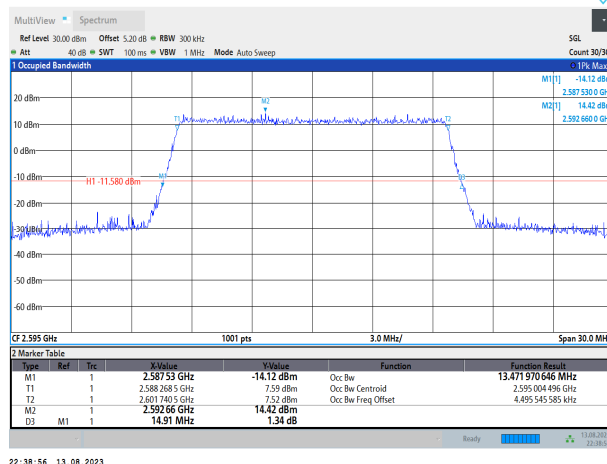
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Band38-15MHz-64QAM-38000-75RB#0



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

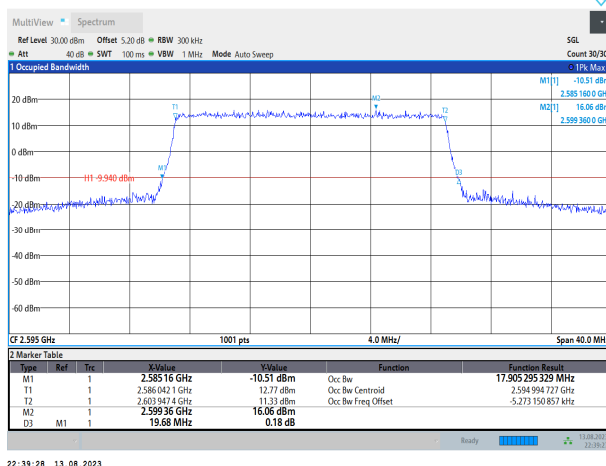


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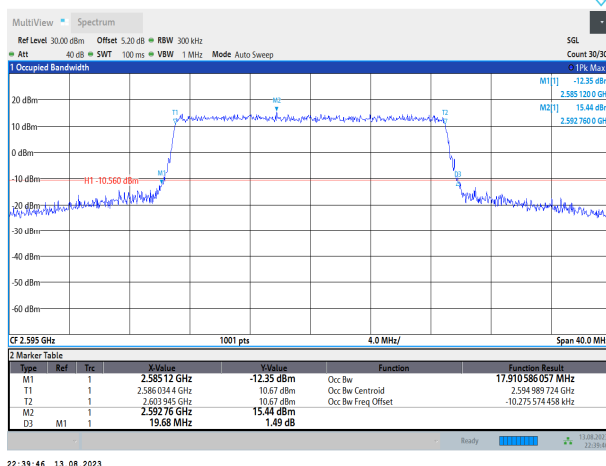
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Band38-20MHz-QPSK-38000-100RB#0



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

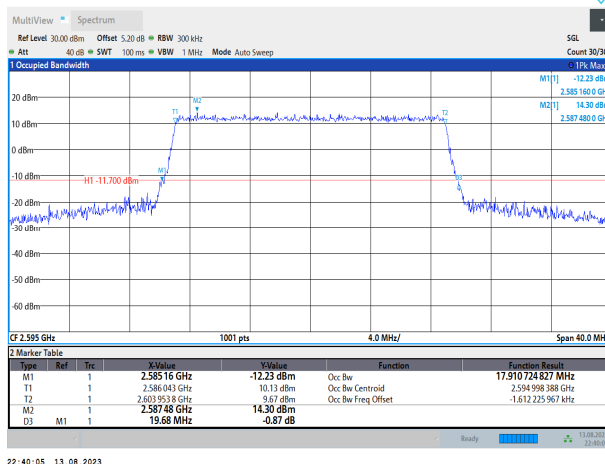


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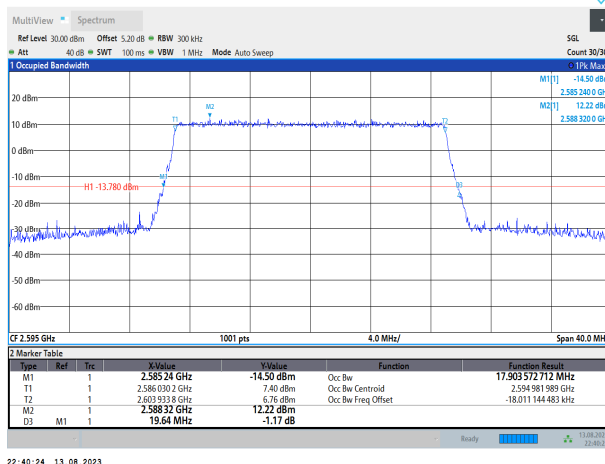
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Band38-20MHz-64QAM-38000-100RB#0



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



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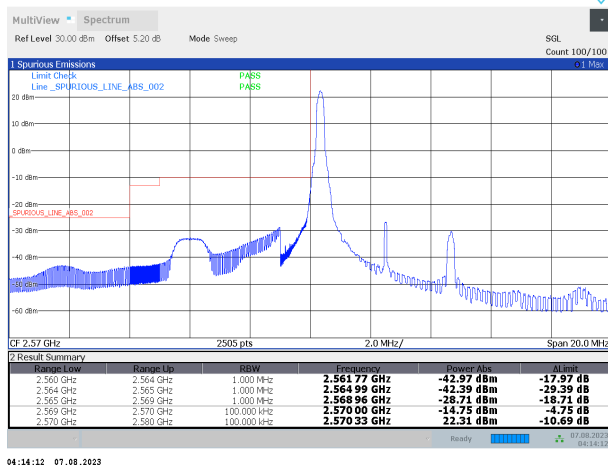
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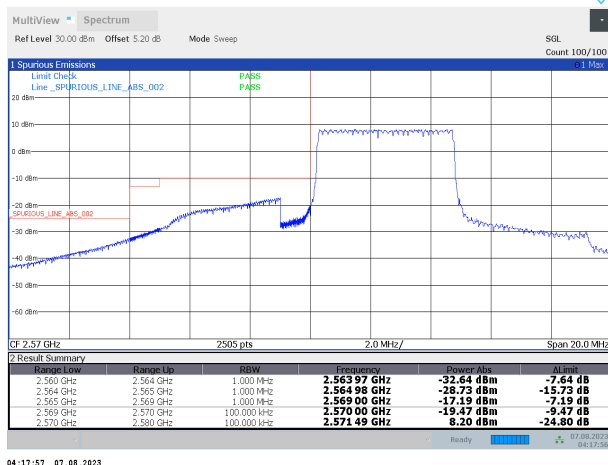
Band Edge

Test Graphs

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



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



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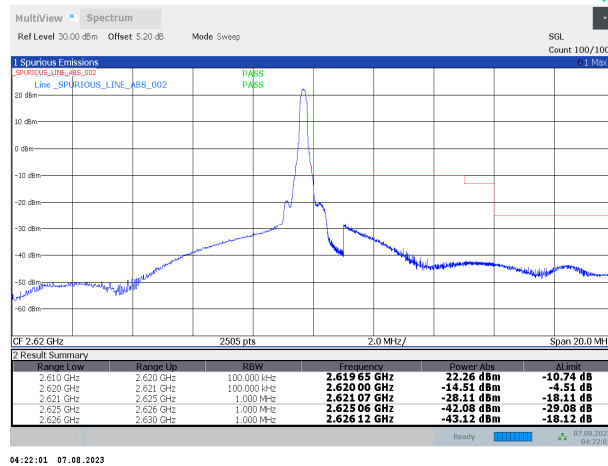
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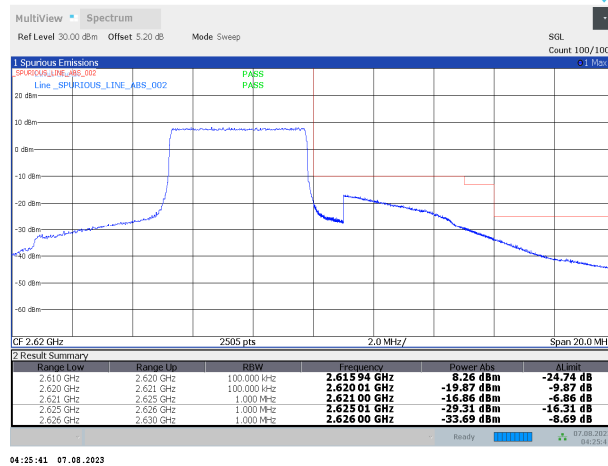
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Band38-5MHz-QPSK-38225-1RB#24



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



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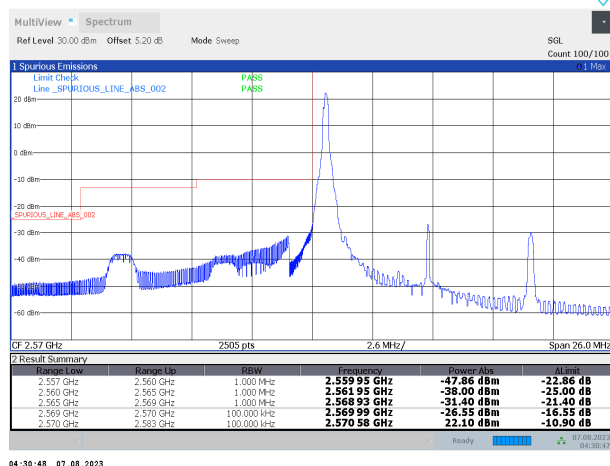
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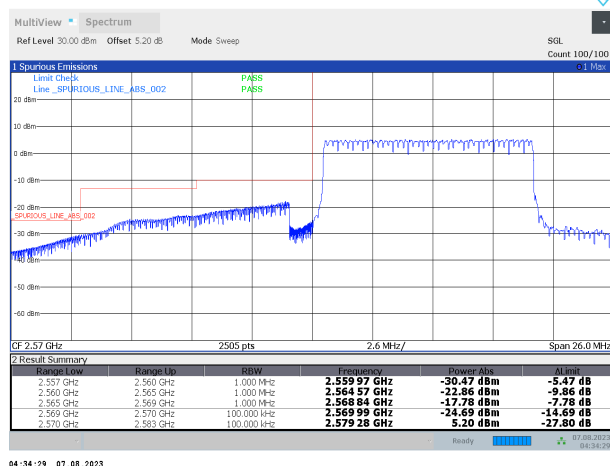
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Band38-10MHz-QPSK-37800-1RB#0



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



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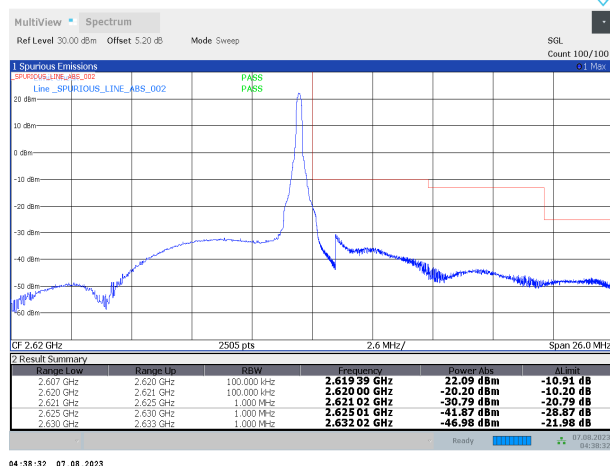
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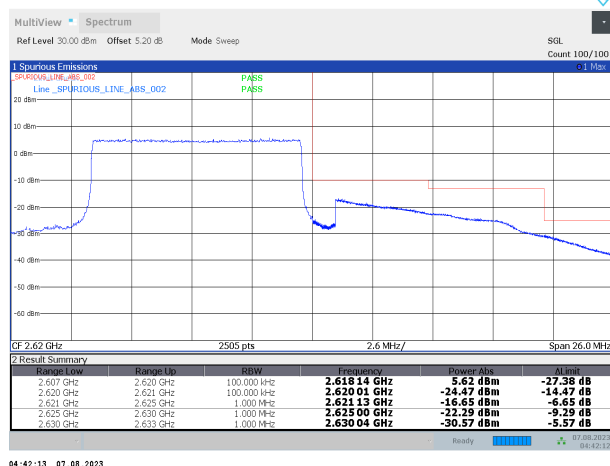
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Band38-10MHz-QPSK-38200-1RB#49



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



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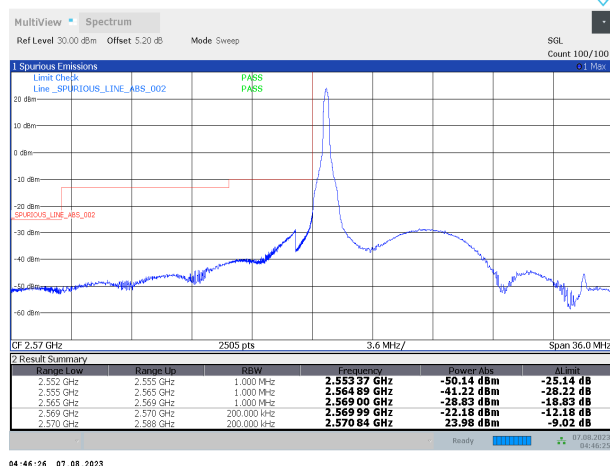
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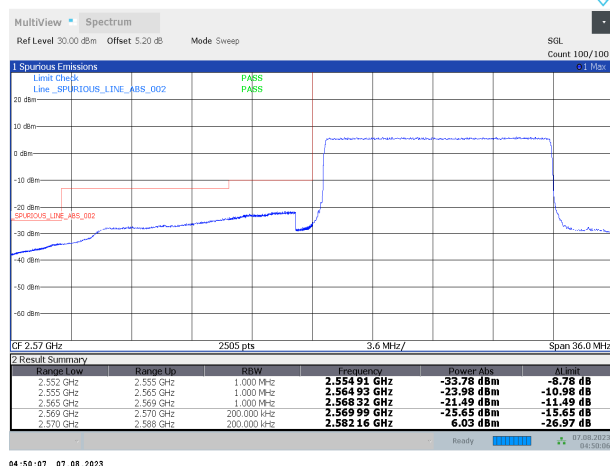
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Band38-15MHz-QPSK-37825-1RB#0



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



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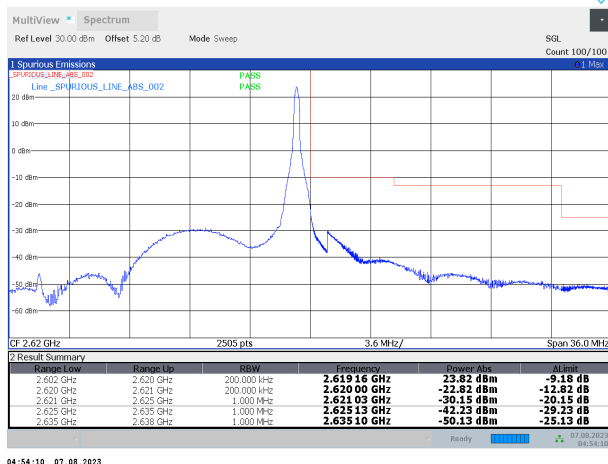
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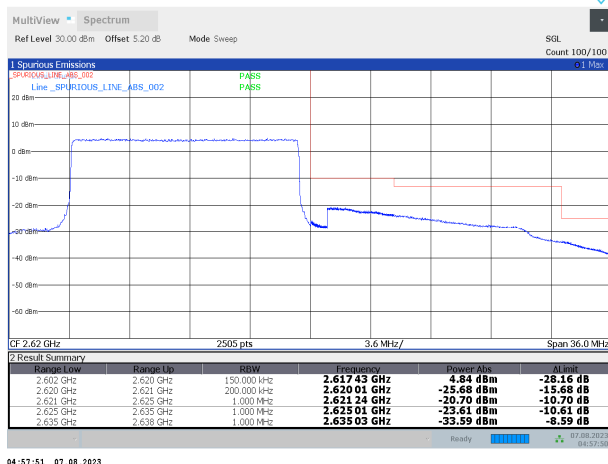
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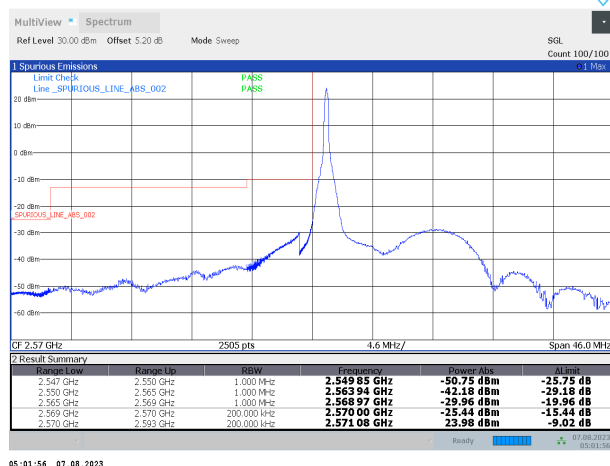
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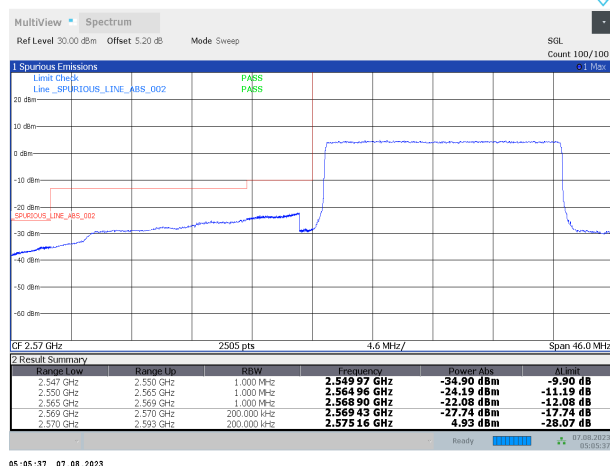
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Band38-20MHz-QPSK-37850-1RB#0



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



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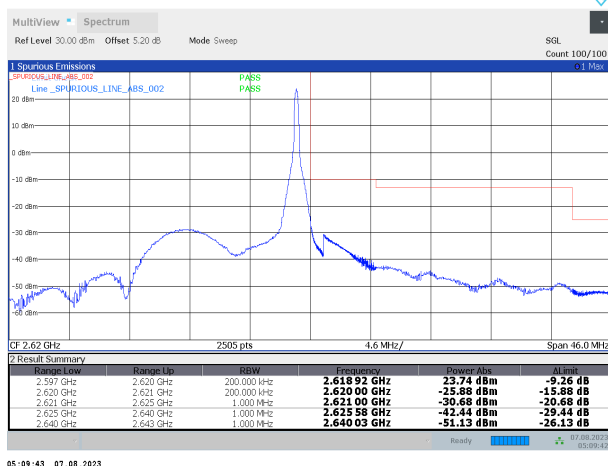
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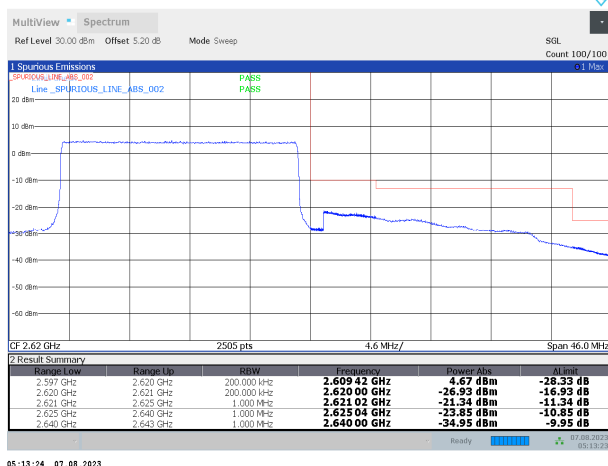
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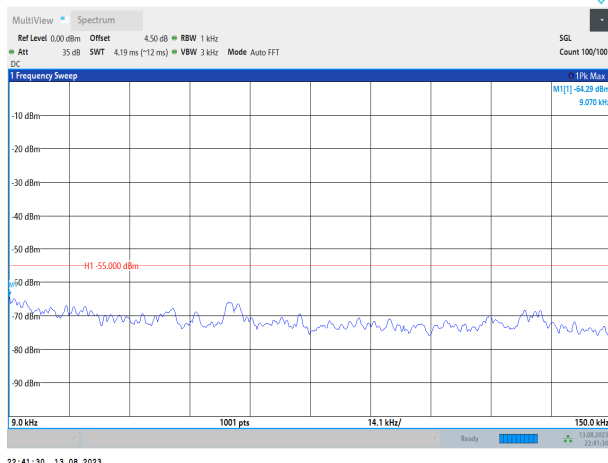
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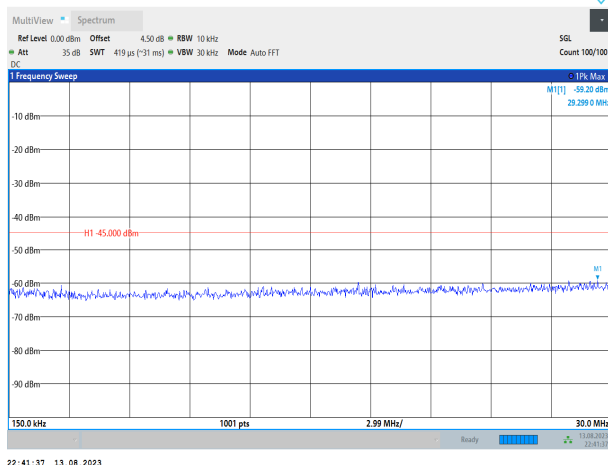
Conducted Spurious Emission

Test Graphs

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



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



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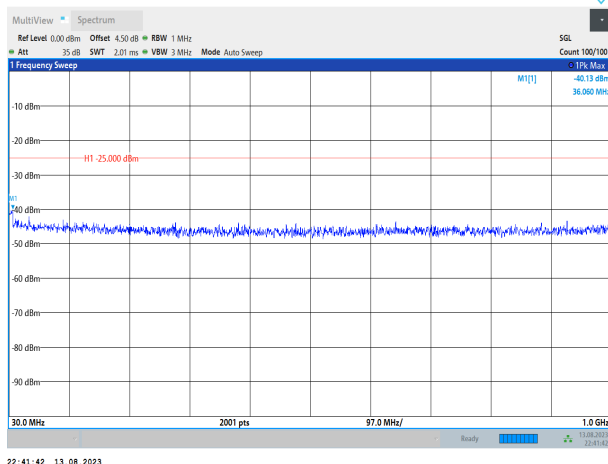
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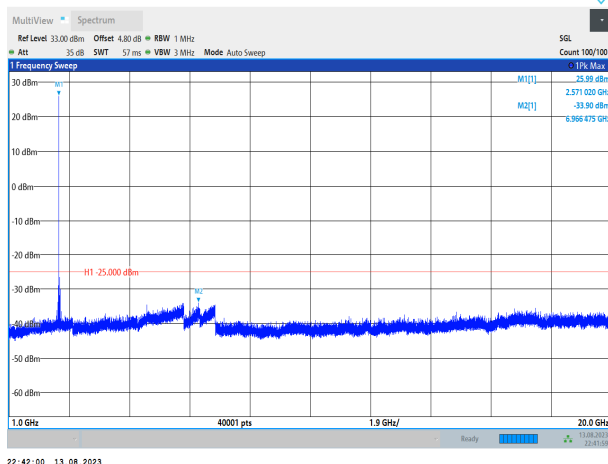
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



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



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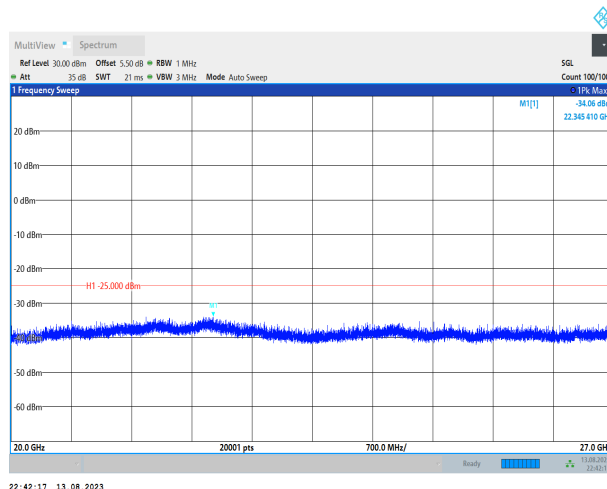
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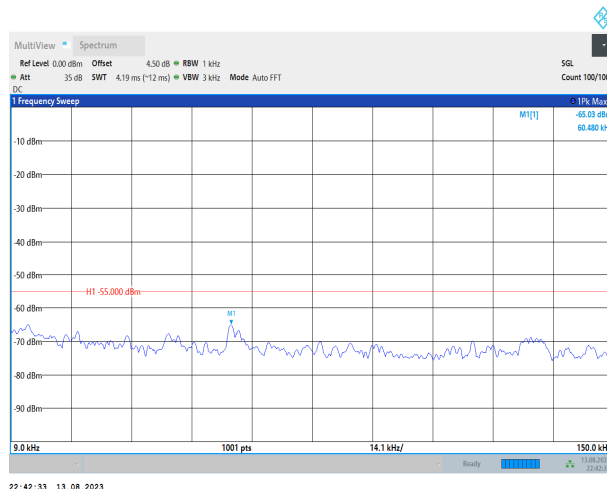
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



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



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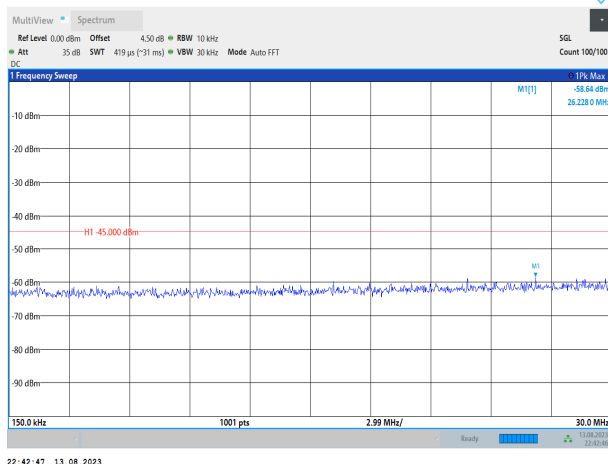
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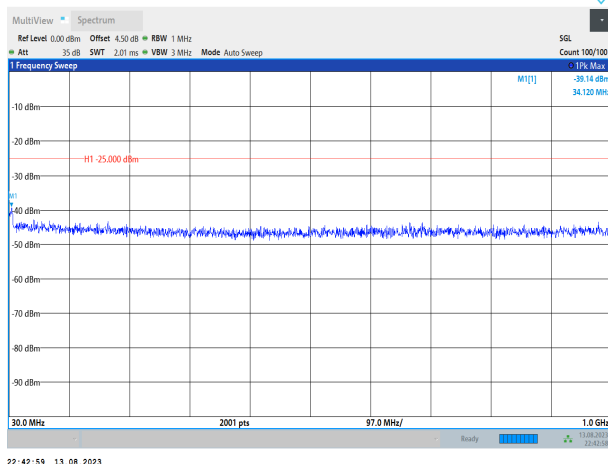
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



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

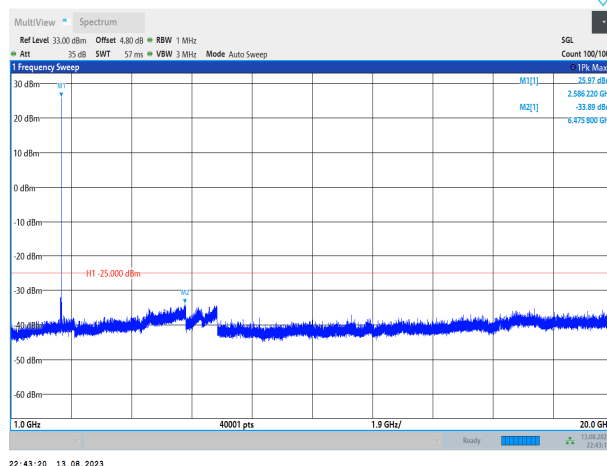


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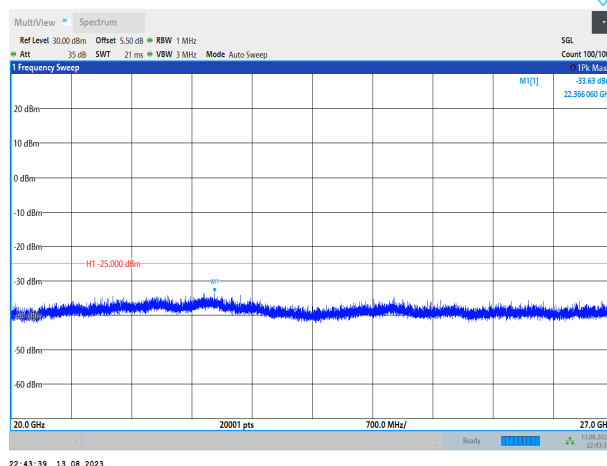
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



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



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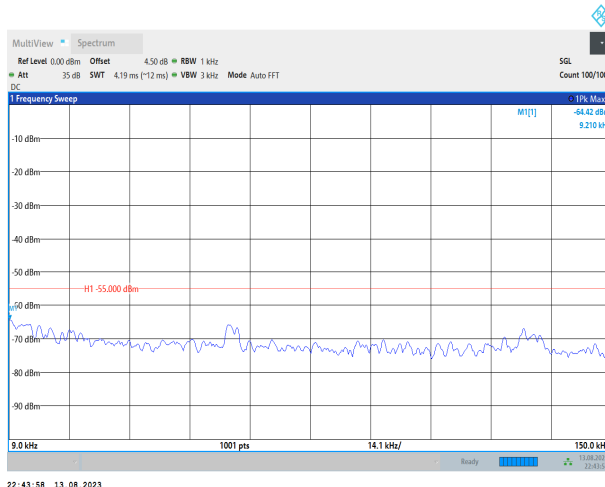
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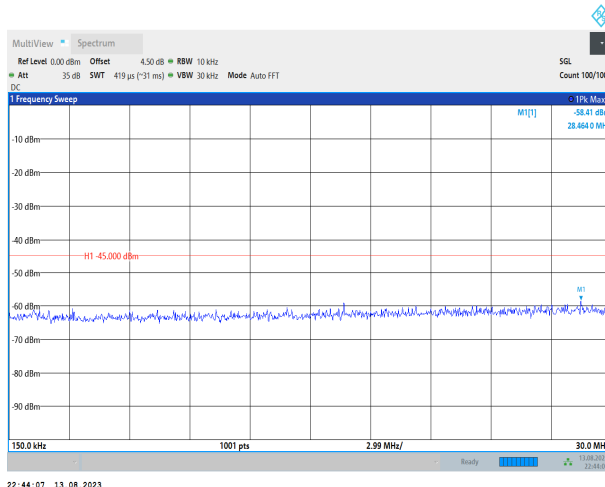
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



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



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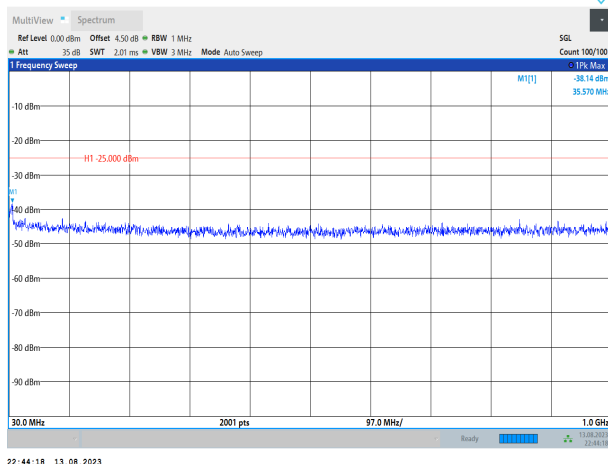
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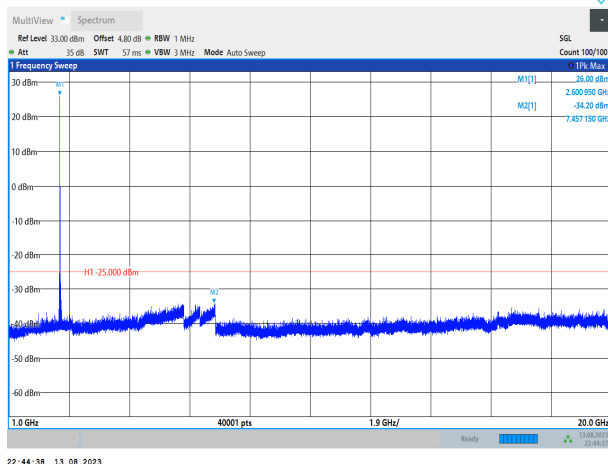
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



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



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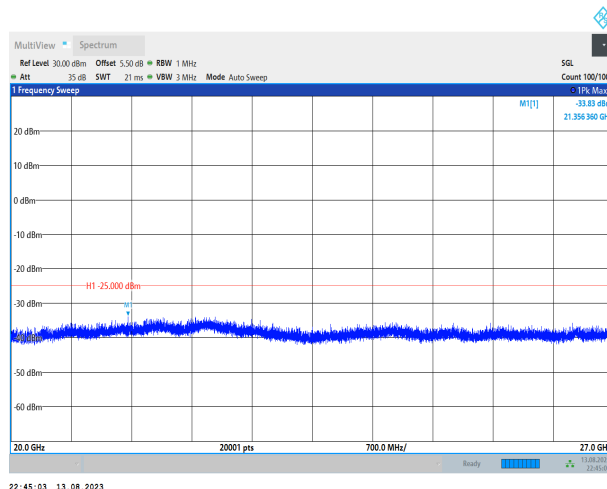
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band38_TM1

Test Channel = Low ANT2

Final 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	41.40	-45.33	31.74	-67.45	-25.00	42.45	166	146	Horizontal
2	7713.2700	39.71	-43.01	36.69	-61.88	-25.00	36.88	236	200	Horizontal
3	10284.3600	35.63	-39.15	38.34	-60.44	-25.00	35.44	261	179	Horizontal
4	12855.4500	33.33	-36.99	39.06	-59.86	-25.00	34.86	155	343	Horizontal
5	15426.5400	31.32	-34.00	40.40	-57.53	-25.00	32.53	196	109	Horizontal
6	17997.6300	31.68	-34.58	46.79	-51.37	-25.00	26.37	125	162	Horizontal

Final 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	42.06	-45.33	31.74	-66.79	-25.00	41.79	245	216	Vertical
2	7713.2700	39.99	-43.01	36.69	-61.60	-25.00	36.60	186	16	Vertical
3	10284.3600	35.27	-39.15	38.34	-60.80	-25.00	35.80	266	105	Vertical
4	12855.4500	32.79	-36.99	39.06	-60.40	-25.00	35.40	261	163	Vertical
5	15426.5400	31.85	-34.00	40.40	-57.00	-25.00	32.00	154	72	Vertical
6	17997.6300	31.44	-34.58	46.79	-51.61	-25.00	26.61	188	323	Vertical



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Report No.: SEWM2307000261RG01

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Test Band = LTE Band38_ TM1
Test Channel = Mid ANT2
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3542	44.10	-46.21	28.64	-68.72	-25.00	43.72	236	1	Horizontal
2	5172.1800	41.53	-45.30	31.81	-67.22	-25.00	42.22	254	306	Horizontal
3	7758.2700	40.11	-42.65	36.70	-61.09	-25.00	36.09	145	7	Horizontal
4	10344.3600	35.08	-39.05	38.37	-60.86	-25.00	35.86	128	216	Horizontal
5	12930.4500	32.38	-37.18	39.08	-60.98	-25.00	35.98	189	35	Horizontal
6	15516.5400	30.58	-35.30	40.21	-59.77	-25.00	34.77	266	252	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4061.5	43.74	-45.87	29.25	-68.14	-25.00	43.14	236	359	Vertical
2	5172.1800	42.10	-45.30	31.81	-66.65	-25.00	41.65	255	326	Vertical
3	7758.2700	39.40	-42.65	36.70	-61.80	-25.00	36.80	145	109	Vertical
4	10344.3600	35.92	-39.05	38.37	-60.02	-25.00	35.02	189	359	Vertical
5	12930.4500	32.05	-37.18	39.08	-61.31	-25.00	36.31	125	308	Vertical
6	15516.5400	30.44	-35.30	40.21	-59.91	-25.00	34.91	156	358	Vertical



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Test Band = LTE Band38_ TM1**Test Channel = High ANT2****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4065	43.45	-45.86	29.26	-68.41	-25.00	43.41	256	19	Horizontal
2	5202.1800	42.03	-45.28	31.89	-66.62	-25.00	41.62	236	1	Horizontal
3	7803.2700	39.96	-42.33	36.72	-60.91	-25.00	35.91	261	233	Horizontal
4	10404.3600	34.79	-39.00	38.40	-61.07	-25.00	36.07	154	0	Horizontal
5	13005.4500	31.98	-37.31	39.11	-61.48	-25.00	36.48	188	144	Horizontal
6	15606.5400	30.97	-34.87	40.03	-59.14	-25.00	34.14	191	54	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3870.5	44.05	-46.17	28.97	-68.41	-25.00	43.41	235	144	Vertical
2	5202.1800	42.06	-45.28	31.89	-66.59	-25.00	41.59	145	326	Vertical
3	7803.2700	39.58	-42.33	36.72	-61.29	-25.00	36.29	188	18	Vertical
4	10404.3600	35.49	-39.00	38.40	-60.37	-25.00	35.37	186	3	Vertical
5	13005.4500	31.97	-37.31	39.11	-61.49	-25.00	36.49	261	353	Vertical
6	15606.5400	30.74	-34.87	40.03	-59.37	-25.00	34.37	159	144	Vertical



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

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Test Band = LTE Band38_ TM1
Test Channel = Low ANT3
Final 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	40.81	-45.33	31.74	-68.04	-25.00	43.04	245	19	Horizontal
2	7713.2700	39.63	-43.01	36.69	-61.96	-25.00	36.96	177	307	Horizontal
3	10284.3600	34.05	-39.15	38.34	-62.02	-25.00	37.02	148	343	Horizontal
4	12855.4500	32.79	-36.99	39.06	-60.40	-25.00	35.40	186	343	Horizontal
5	15426.5400	31.66	-34.00	40.40	-57.19	-25.00	32.19	263	199	Horizontal
6	17997.6300	32.36	-34.58	46.79	-50.69	-25.00	25.69	261	72	Horizontal

Final 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	40.68	-45.33	31.74	-68.17	-25.00	43.17	254	360	Vertical
2	7713.2700	40.88	-43.01	36.69	-60.71	-25.00	35.71	188	54	Vertical
3	10284.3600	35.39	-39.15	38.34	-60.68	-25.00	35.68	189	54	Vertical
4	12855.4500	31.82	-36.99	39.06	-61.37	-25.00	36.37	263	359	Vertical
5	15426.5400	31.43	-34.00	40.40	-57.42	-25.00	32.42	251	326	Vertical
6	17997.6300	31.07	-34.58	46.79	-51.98	-25.00	26.98	145	288	Vertical



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Test Band = LTE Band38_ TM1
Test Channel = Mid ANT3
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4142.5	43.74	-45.76	29.44	-67.84	-25.00	42.84	254	2	Horizontal
2	5172.1800	41.32	-45.30	31.81	-67.43	-25.00	42.43	156	89	Horizontal
3	7758.2700	39.65	-42.65	36.70	-61.55	-25.00	36.55	236	1	Horizontal
4	10344.3600	34.85	-39.05	38.37	-61.09	-25.00	36.09	259	342	Horizontal
5	12930.4500	33.16	-37.18	39.08	-60.20	-25.00	35.20	199	142	Horizontal
6	15516.5400	30.57	-35.30	40.21	-59.78	-25.00	34.78	178	232	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4076.5	43.25	-45.83	29.28	-68.55	-25.00	43.55	254	360	Vertical
2	5172.1800	41.84	-45.30	31.81	-66.91	-25.00	41.91	156	91	Vertical
3	7758.2700	39.80	-42.65	36.70	-61.40	-25.00	36.40	266	181	Vertical
4	10344.3600	35.36	-39.05	38.37	-60.58	-25.00	35.58	251	216	Vertical
5	12930.4500	33.13	-37.18	39.08	-60.23	-25.00	35.23	145	161	Vertical
6	15516.5400	30.38	-35.30	40.21	-59.97	-25.00	34.97	189	127	Vertical



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Test Band = LTE Band38_ TM1
Test Channel = High ANT3
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3800.5	43.61	-45.92	28.90	-68.67	-25.00	43.67	233	70	Horizontal
2	5202.1800	41.91	-45.28	31.89	-66.74	-25.00	41.74	261	7	Horizontal
3	7803.2700	39.02	-42.33	36.72	-61.85	-25.00	36.85	156	270	Horizontal
4	10404.3600	34.33	-39.00	38.40	-61.53	-25.00	36.53	145	7	Horizontal
5	13005.4500	32.55	-37.31	39.11	-60.91	-25.00	35.91	188	2	Horizontal
6	15606.5400	30.32	-34.87	40.03	-59.79	-25.00	34.79	123	197	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4087.5	43.26	-45.80	29.31	-68.49	-25.00	43.49	245	233	Vertical
2	5202.1800	41.09	-45.28	31.89	-67.56	-25.00	42.56	188	287	Vertical
3	7803.2700	39.48	-42.33	36.72	-61.39	-25.00	36.39	175	341	Vertical
4	10404.3600	34.95	-39.00	38.40	-60.91	-25.00	35.91	145	360	Vertical
5	13005.4500	33.42	-37.31	39.11	-60.04	-25.00	35.04	169	3	Vertical
6	15606.5400	31.05	-34.87	40.03	-59.06	-25.00	34.06	250	53	Vertical



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

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Test Band = LTE Band38_ TM1
Test Channel = Low ANT4
Final 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	40.34	-45.33	31.74	-68.51	-25.00	43.51	244	200	Horizontal
2	7713.2700	39.72	-43.01	36.69	-61.87	-25.00	36.87	158	270	Horizontal
3	10284.3600	35.26	-39.15	38.34	-60.81	-25.00	35.81	163	72	Horizontal
4	12855.4500	31.68	-36.99	39.06	-61.51	-25.00	36.51	261	108	Horizontal
5	15426.5400	30.63	-34.00	40.40	-58.22	-25.00	33.22	159	2	Horizontal
6	17997.6300	32.01	-34.58	46.79	-51.04	-25.00	26.04	187	0	Horizontal

Final 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	41.12	-45.33	31.74	-67.73	-25.00	42.73	245	179	Vertical
2	7713.2700	40.30	-43.01	36.69	-61.29	-25.00	36.29	156	360	Vertical
3	10284.3600	34.43	-39.15	38.34	-61.64	-25.00	36.64	236	88	Vertical
4	12855.4500	33.65	-36.99	39.06	-59.54	-25.00	34.54	261	88	Vertical
5	15426.5400	31.58	-34.00	40.40	-57.27	-25.00	32.27	158	358	Vertical
6	17997.6300	31.49	-34.58	46.79	-51.56	-25.00	26.56	189	360	Vertical



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Test Band = LTE Band 38_ TM1**Test Channel = Mid ANT4****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4109	43.84	-45.76	29.36	-67.82	-25.00	42.82	245	233	Horizontal
2	5172.1800	42.04	-45.30	31.81	-66.71	-25.00	41.71	156	342	Horizontal
3	7758.2700	40.17	-42.65	36.70	-61.03	-25.00	36.03	233	215	Horizontal
4	10344.3600	35.16	-39.05	38.37	-60.78	-25.00	35.78	261	342	Horizontal
5	12930.4500	32.35	-37.18	39.08	-61.01	-25.00	36.01	159	180	Horizontal
6	15516.5400	30.66	-35.30	40.21	-59.69	-25.00	34.69	198	2	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4051	43.91	-45.90	29.22	-68.02	-25.00	43.02	244	36	Vertical
2	5172.1800	42.55	-45.30	31.81	-66.20	-25.00	41.20	178	108	Vertical
3	7758.2700	39.62	-42.65	36.70	-61.58	-25.00	36.58	186	271	Vertical
4	10344.3600	35.40	-39.05	38.37	-60.54	-25.00	35.54	125	271	Vertical
5	12930.4500	32.28	-37.18	39.08	-61.08	-25.00	36.08	158	359	Vertical
6	15516.5400	30.79	-35.30	40.21	-59.56	-25.00	34.56	193	252	Vertical



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

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Test Band = LTE Band38_ TM1**Test Channel = High ANT4****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3957	43.83	-46.14	29.06	-68.52	-25.00	43.52	244	90	Horizontal
2	5202.1800	41.63	-45.28	31.89	-67.02	-25.00	42.02	123	109	Horizontal
3	7803.2700	38.99	-42.33	36.72	-61.88	-25.00	36.88	263	357	Horizontal
4	10404.3600	34.25	-39.00	38.40	-61.61	-25.00	36.61	251	324	Horizontal
5	13005.4500	32.31	-37.31	39.11	-61.15	-25.00	36.15	159	357	Horizontal
6	15606.5400	31.12	-34.87	40.03	-58.99	-25.00	33.99	186	306	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3763	43.20	-45.76	28.86	-68.96	-25.00	43.96	254	90	Vertical
2	5202.1800	42.53	-45.28	31.89	-66.12	-25.00	41.12	163	343	Vertical
3	7803.2700	39.84	-42.33	36.72	-61.03	-25.00	36.03	256	18	Vertical
4	10404.3600	33.95	-39.00	38.40	-61.91	-25.00	36.91	136	73	Vertical
5	13005.4500	32.05	-37.31	39.11	-61.41	-25.00	36.41	256	3	Vertical
6	15606.5400	31.47	-34.87	40.03	-58.64	-25.00	33.64	126	254	Vertical



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Test Band = LTE Band38_ TM1
Test Channel = Low ANT5
Final 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	40.65	-45.33	31.74	-68.20	-25.00	43.20	241	324	Horizontal
2	7713.2700	39.29	-43.01	36.69	-62.30	-25.00	37.30	153	7	Horizontal
3	10284.3600	34.24	-39.15	38.34	-61.83	-25.00	36.83	263	89	Horizontal
4	12855.4500	32.67	-36.99	39.06	-60.52	-25.00	35.52	261	0	Horizontal
5	15426.5400	31.42	-34.00	40.40	-57.43	-25.00	32.43	159	342	Horizontal
6	17997.6300	31.67	-34.58	46.79	-51.38	-25.00	26.38	184	35	Horizontal

Final 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	40.81	-45.33	31.74	-68.04	-25.00	43.04	211	108	Vertical
2	7713.2700	39.93	-43.01	36.69	-61.66	-25.00	36.66	156	360	Vertical
3	10284.3600	35.09	-39.15	38.34	-60.98	-25.00	35.98	261	196	Vertical
4	12855.4500	32.56	-36.99	39.06	-60.63	-25.00	35.63	136	358	Vertical
5	15426.5400	31.75	-34.00	40.40	-57.10	-25.00	32.10	261	142	Vertical
6	17997.6300	31.85	-34.58	46.79	-51.20	-25.00	26.20	199	287	Vertical



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Test Band = LTE Band38_ TM1**Test Channel = Mid ANT5****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3599.5	43.46	-46.13	28.70	-69.23	-25.00	44.23	285	17	Horizontal
2	5172.1800	41.65	-45.30	31.81	-67.10	-25.00	42.10	174	234	Horizontal
3	7758.2700	39.35	-42.65	36.70	-61.85	-25.00	36.85	156	162	Horizontal
4	10344.3600	34.52	-39.05	38.37	-61.42	-25.00	36.42	196	71	Horizontal
5	12930.4500	32.28	-37.18	39.08	-61.08	-25.00	36.08	136	162	Horizontal
6	15516.5400	30.86	-35.30	40.21	-59.49	-25.00	34.49	256	356	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4098.5	43.41	-45.76	29.34	-68.28	-25.00	43.28	241	289	Vertical
2	5172.1800	41.42	-45.30	31.81	-67.33	-25.00	42.33	158	341	Vertical
3	7758.2700	38.84	-42.65	36.70	-62.36	-25.00	37.36	178	161	Vertical
4	10344.3600	35.52	-39.05	38.37	-60.42	-25.00	35.42	186	359	Vertical
5	12930.4500	32.98	-37.18	39.08	-60.38	-25.00	35.38	263	289	Vertical
6	15516.5400	30.41	-35.30	40.21	-59.94	-25.00	34.94	256	215	Vertical



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Test Band = LTE Band38_ TM1**Test Channel = High ANT5****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4249	43.31	-45.66	29.70	-67.91	-25.00	42.91	211	89	Horizontal
2	5202.1800	42.18	-45.28	31.89	-66.47	-25.00	41.47	154	343	Horizontal
3	7803.2700	38.92	-42.33	36.72	-61.95	-25.00	36.95	163	199	Horizontal
4	10404.3600	33.94	-39.00	38.40	-61.92	-25.00	36.92	256	307	Horizontal
5	13005.4500	31.80	-37.31	39.11	-61.66	-25.00	36.66	136	289	Horizontal
6	15606.5400	30.73	-34.87	40.03	-59.38	-25.00	34.38	256	357	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4085	43.88	-45.80	29.30	-67.88	-25.00	42.88	263	4	Vertical
2	5202.1800	41.82	-45.28	31.89	-66.83	-25.00	41.83	233	271	Vertical
3	7803.2700	38.76	-42.33	36.72	-62.11	-25.00	37.11	216	180	Vertical
4	10404.3600	33.38	-39.00	38.40	-62.48	-25.00	37.48	145	290	Vertical
5	13005.4500	31.97	-37.31	39.11	-61.49	-25.00	36.49	185	36	Vertical
6	15606.5400	30.89	-34.87	40.03	-59.22	-25.00	34.22	169	216	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) - Pre-amplifier (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	-2.10	-0.000809	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-3.70	-0.001426	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-0.50	-0.000193	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-16.90	-0.006513	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-0.50	-0.000193	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-2.70	-0.001040	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	1.90	0.000732	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	1.30	0.000501	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-52.40	-0.020193	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-3.00	-0.001156	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-0.30	-0.000116	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	2.00	0.000771	PASS

---End of Attachment---



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