

Appendix for LTE 38C

Product Name: 5G Indoor CPE

Model No: TITAN 5000

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	22.67	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	21.67	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#74-0RB#0	22.56	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#74-0RB#0	21.53	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-1RB#74	15.00	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-1RB#74	15.03	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	16RB#0-0RB#0	22.77	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	16RB#0-0RB#0	21.73	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	21.50	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	20.54	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	22.71	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	21.71	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#74-0RB#0	22.53	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#74-0RB#0	21.64	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-1RB#74	16.73	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-1RB#74	14.97	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	16RB#0-0RB#0	22.72	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	16RB#0-0RB#0	21.88	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	21.48	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	20.50	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	22.68	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	21.77	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#74-0RB#0	22.46	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#74-0RB#0	21.44	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-1RB#74	16.93	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-1RB#74	14.86	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	16RB#0-0RB#0	22.80	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	16RB#0-0RB#0	21.86	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	21.45	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	20.46	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	22.69	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	21.73	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#99-0RB#0	22.74	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#99-0RB#0	21.73	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-1RB#99	14.91	PASS

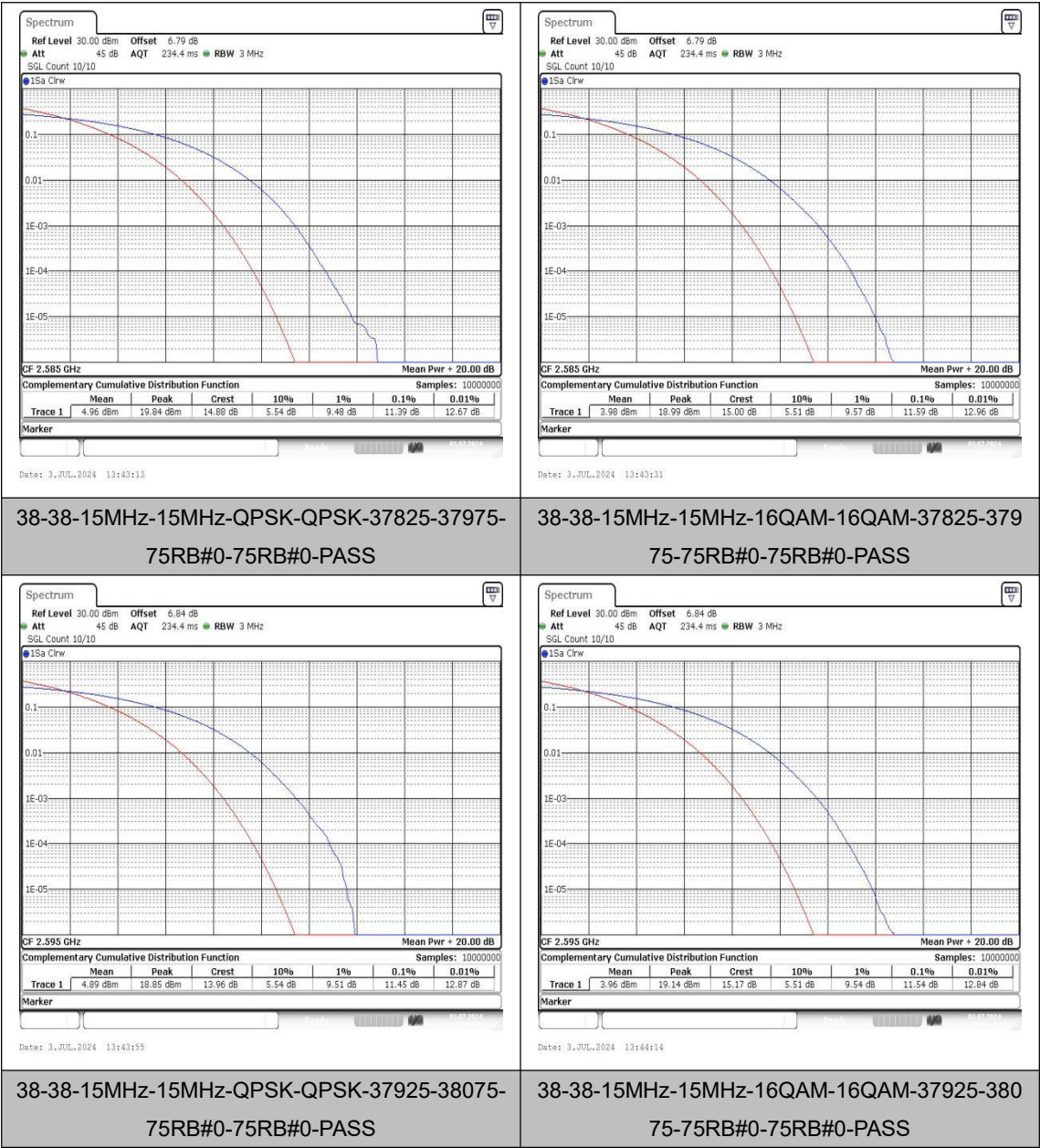
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-1RB#99	14.89	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	18RB#0-0RB#0	22.67	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	18RB#0-0RB#0	21.80	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	21.50	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	20.52	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	22.66	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	21.74	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#99-0RB#0	22.63	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#99-0RB#0	21.51	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-1RB#99	16.94	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-1RB#99	15.01	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	18RB#0-0RB#0	22.77	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	18RB#0-0RB#0	21.81	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	21.46	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	20.52	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	22.70	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	21.74	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#99-0RB#0	22.62	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#99-0RB#0	21.64	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-1RB#99	22.75	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-1RB#99	21.55	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	18RB#0-0RB#0	22.67	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	18RB#0-0RB#0	21.73	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	21.73	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	20.76	PASS

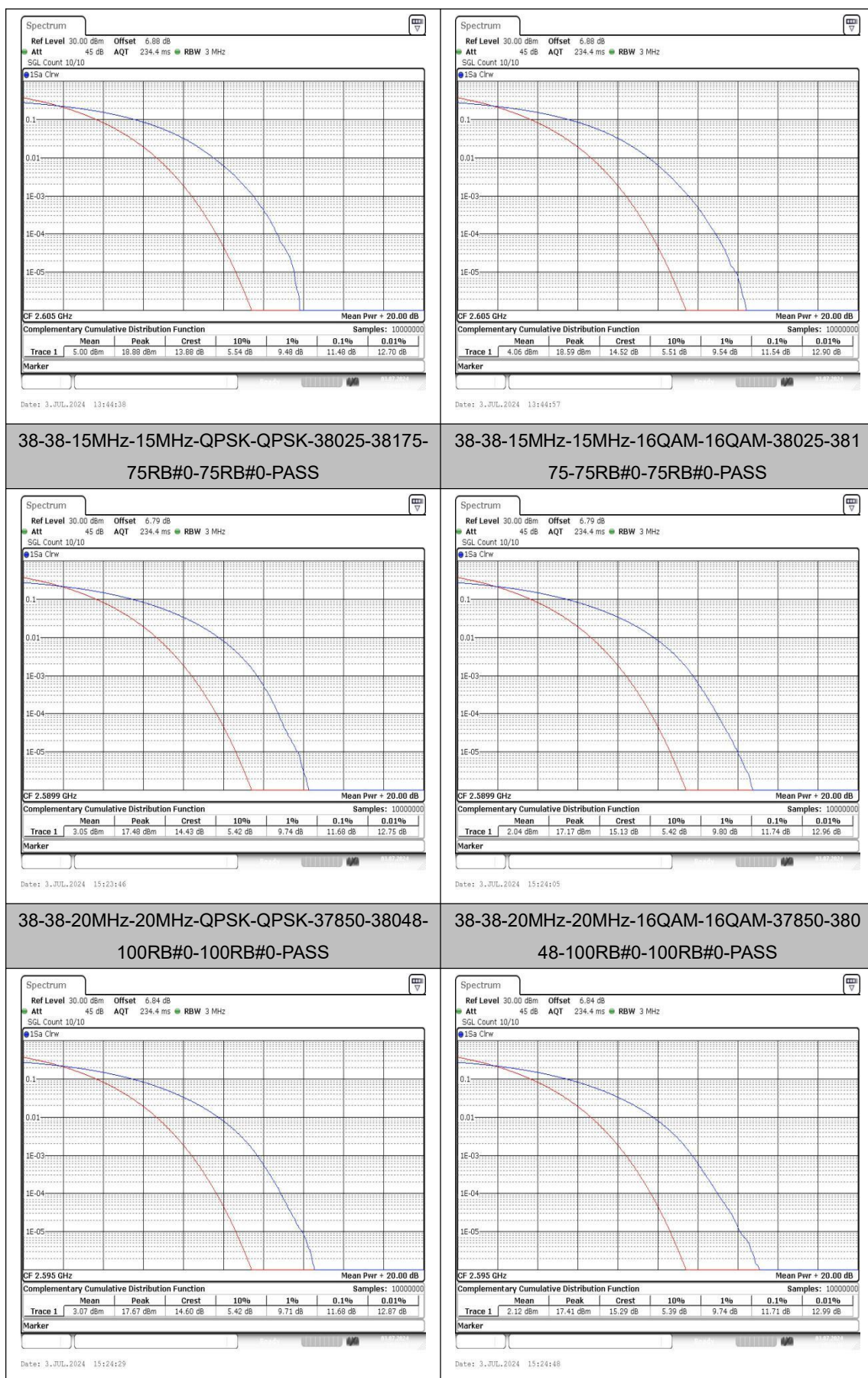
Appendix B: Peak-to-Average Ratio(CCDF)

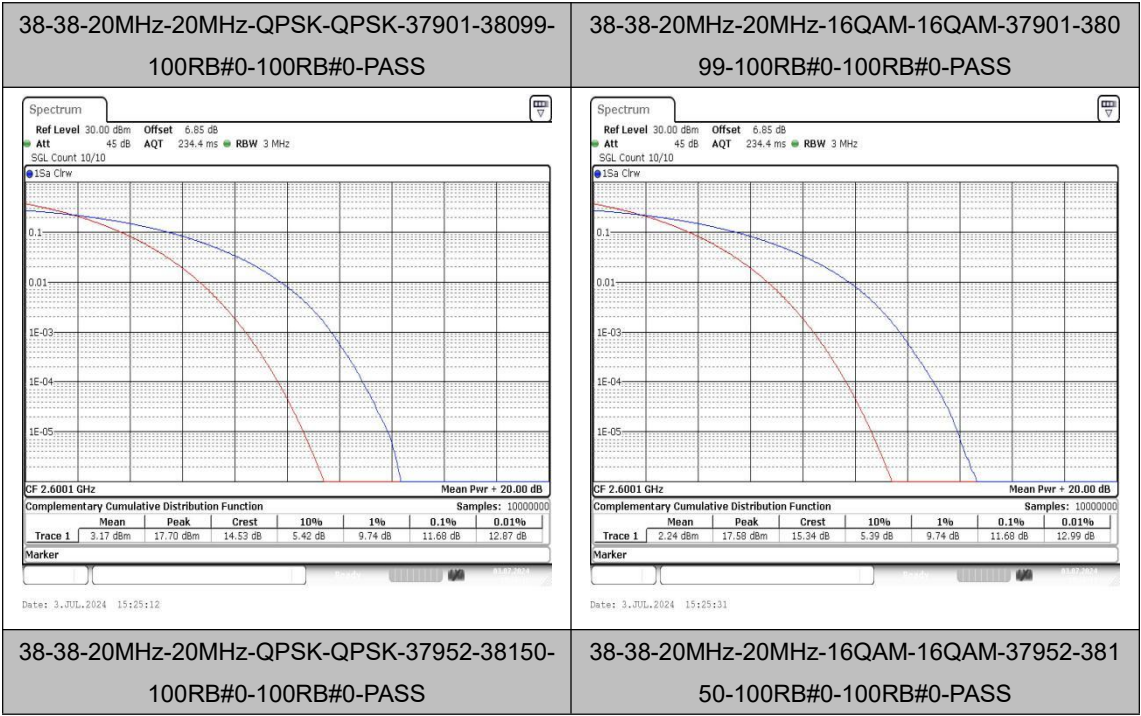
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	11.39	13	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	11.59	13	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	11.45	13	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	11.54	13	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	11.48	13	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	11.54	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	11.68	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	11.74	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	11.68	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	11.71	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	11.68	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	11.68	13	PASS

Test Graphs





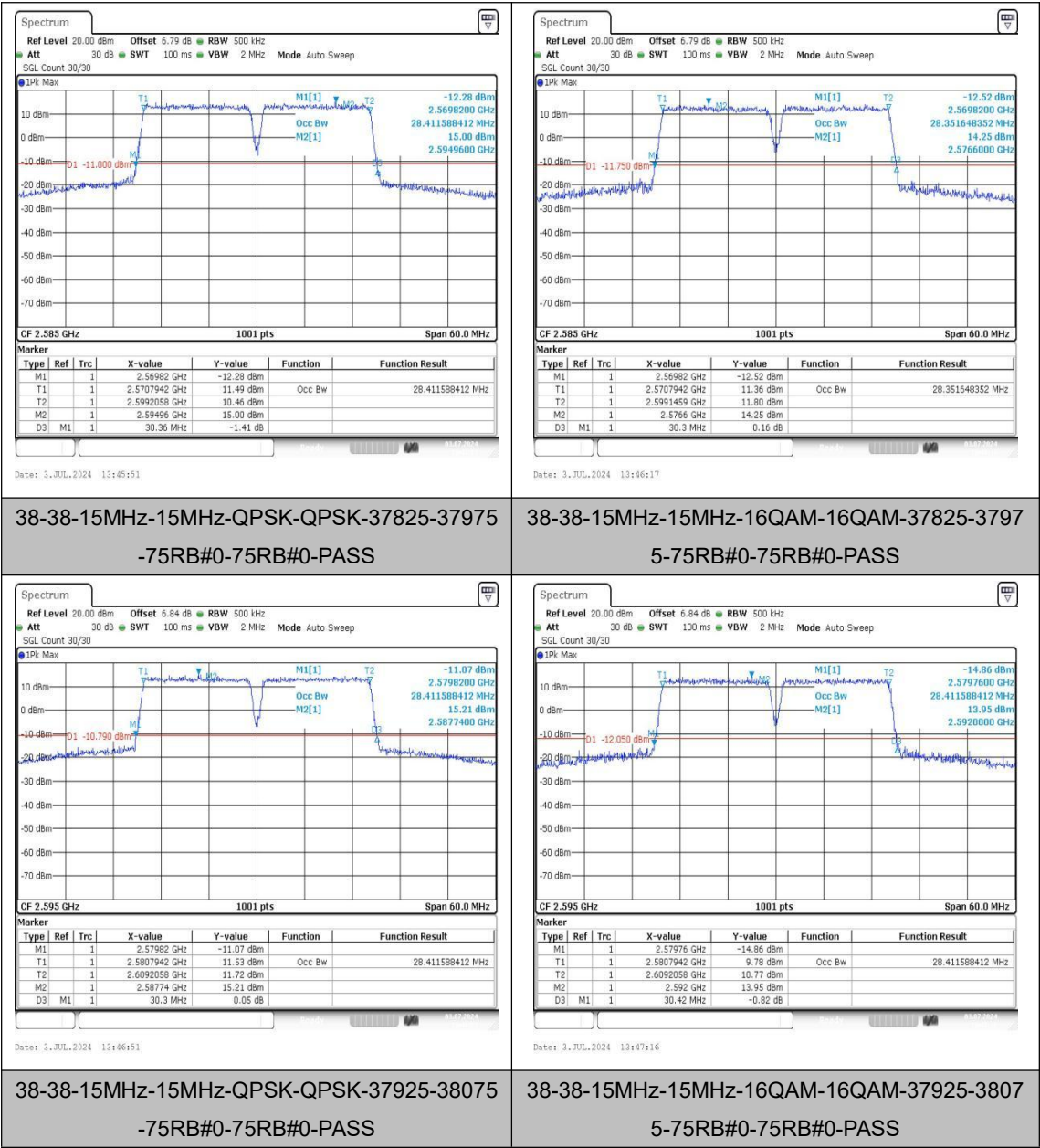


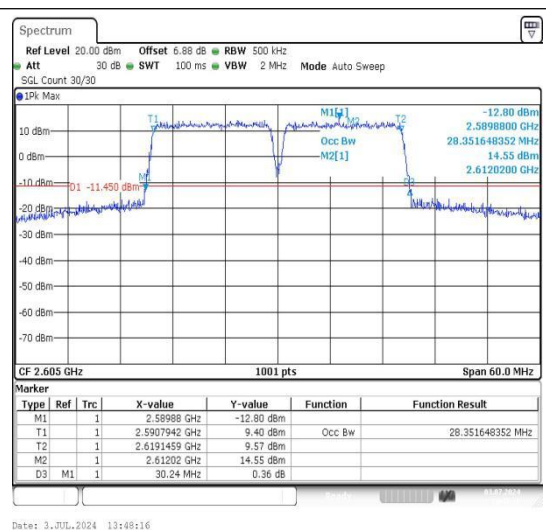
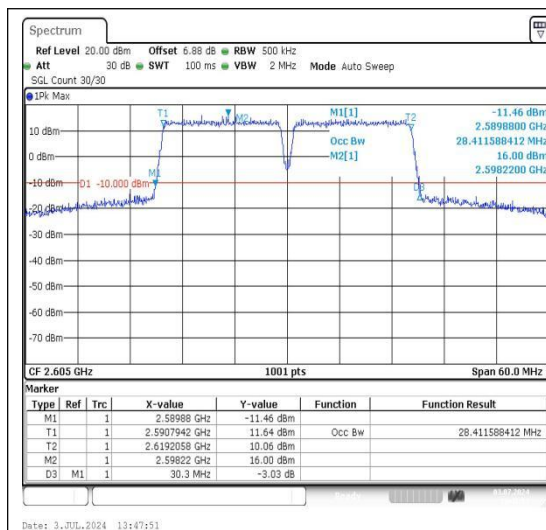
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	28.412	30.36	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.352	30.30	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.412	30.30	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.412	30.42	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.412	30.30	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.352	30.24	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.882	40.88	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.882	40.64	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.882	40.56	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.802	40.64	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.962	40.96	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.882	40.72	PASS

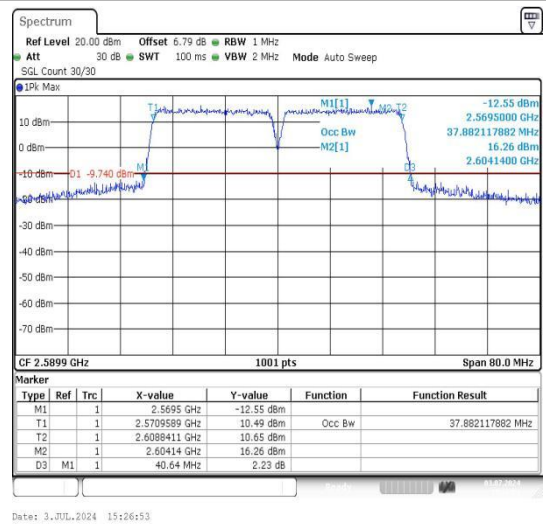
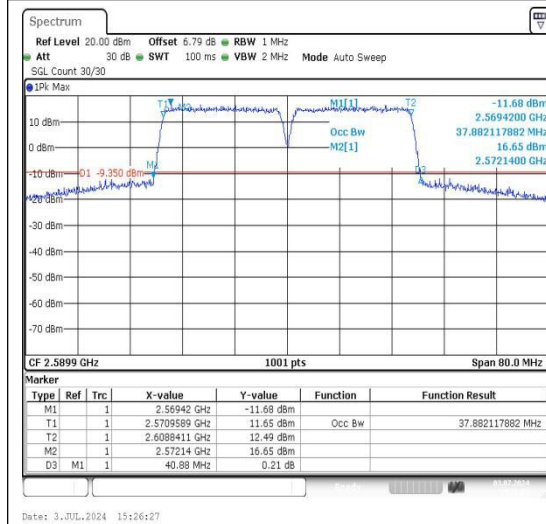
Test Graphs





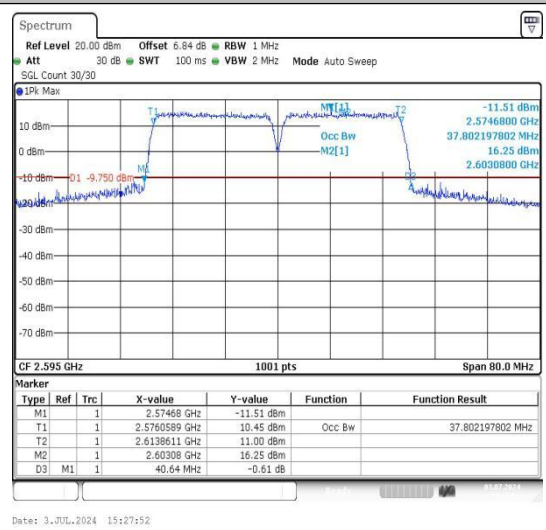
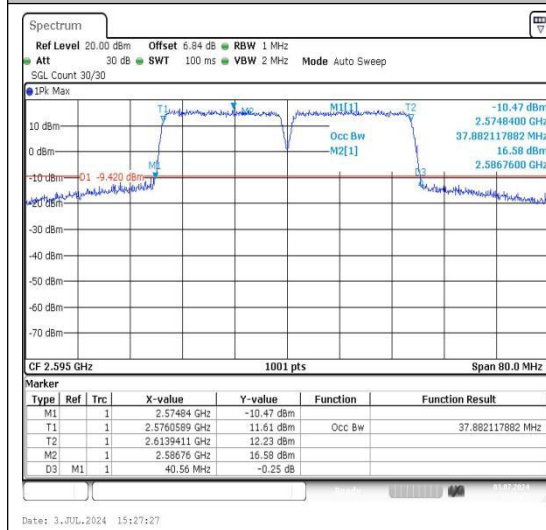
38-38-15MHz-15MHz-QPSK-QPSK-38025-38175
-75RB#0-75RB#0-PASS

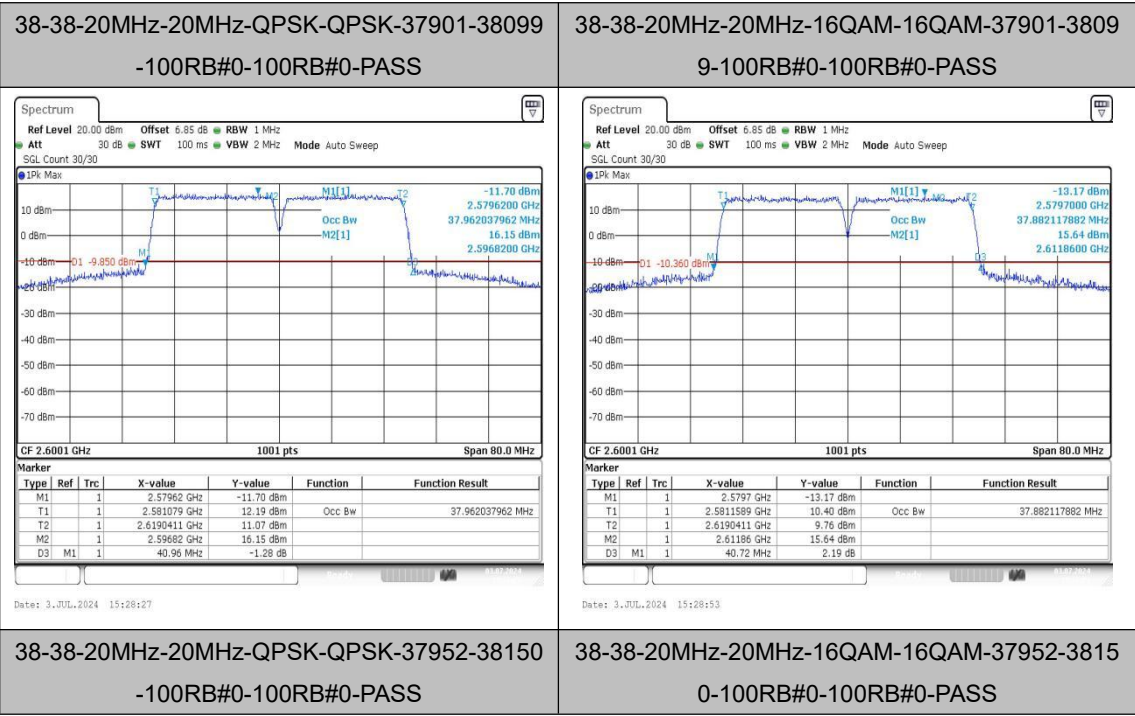
38-38-15MHz-15MHz-16QAM-16QAM-38025-3817
5-75RB#0-75RB#0-PASS



38-38-20MHz-20MHz-QPSK-QPSK-37850-38048
-100RB#0-100RB#0-PASS

38-38-20MHz-20MHz-16QAM-16QAM-37850-3804
8-100RB#0-100RB#0-PASS





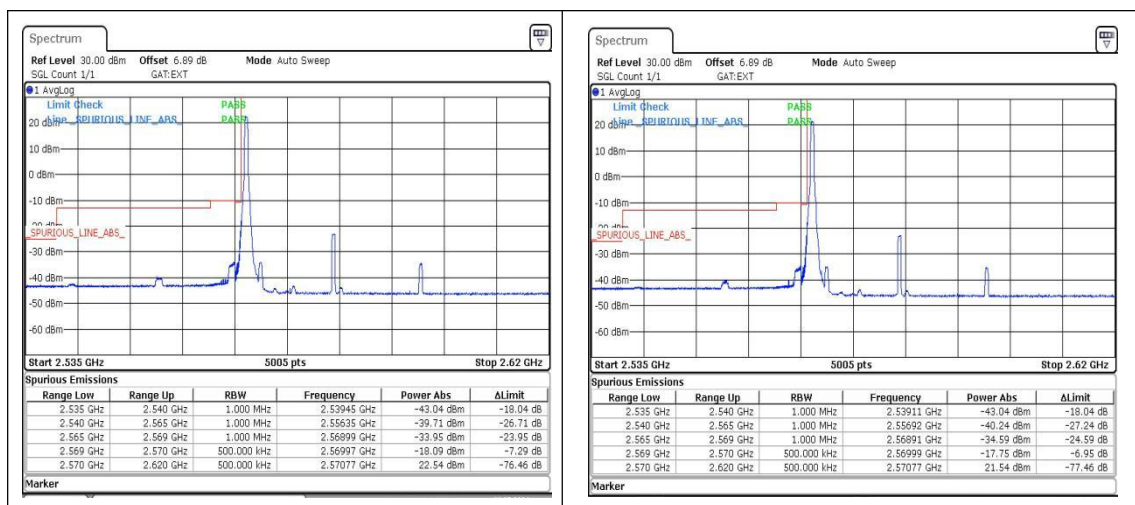
Appendix D: Band Edge

Test Result

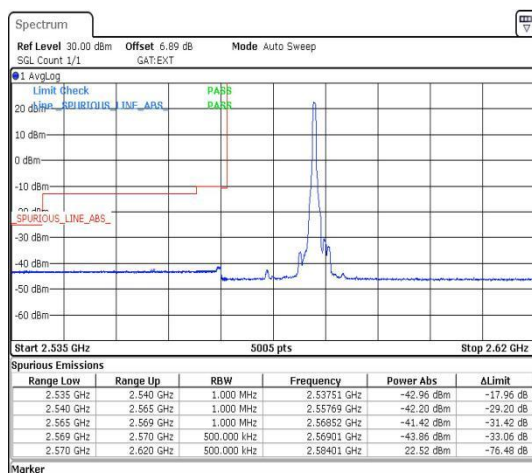
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	37825-37975	1RB#0@75RB#0-0RB#0@75RB#0	-18.09	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	37825-37975	1RB#0@75RB#0-0RB#0@75RB#0	-17.75	PASS
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	37825-37975	1RB#74@75RB#0-0RB#0@75RB#0	-42.96	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	37825-37975	1RB#74@75RB#0-0RB#0@75RB#0	-42.98	PASS
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	37825-37975	1RB#0@75RB#0-1RB#74@75RB#0	-28.67	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	37825-37975	1RB#0@75RB#0-1RB#74@75RB#0	-26.10	PASS
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	37825-37975	75RB#0@75RB#0-75RB#0@75RB#0	-35.43	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	37825-37975	75RB#0@75RB#0-75RB#0@75RB#0	-37.06	PASS
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	38025-38175	1RB#0@75RB#0-0RB#0@75RB#0	-42.68	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	38025-38175	1RB#0@75RB#0-0RB#0@75RB#0	-42.72	PASS
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	38025-38175	1RB#74@75RB#0-0RB#0@75RB#0	-42.72	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	38025-38175	1RB#74@75RB#0-0RB#0@75RB#0	-42.76	PASS
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	38025-38175	1RB#0@75RB#0-1RB#74@75RB#0	-29.36	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	38025-38175	1RB#0@75RB#0-1RB#74@75RB#0	-27.36	PASS
38-38	15MHz-15MHz	QPSK@QPSK-QPSK@QPSK	38025-38175	75RB#0@75RB#0-75RB#0@75RB#0	-34.29	PASS
38-38	15MHz-15MHz	16QAM@16QAM-16QAM@16QAM	38025-38175	75RB#0@75RB#0-75RB#0@75RB#0	-35.78	PASS
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37850-38048	1RB#0@100RB#0-0RB#0@100RB#0	-14.55	PASS
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37850-38048	1RB#0@100RB#0-0RB#0@100RB#0	-14.70	PASS

38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37850-38048	1RB#99@100RB#0-0RB#0@100RB#0	-42.98	PAS S
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37850-38048	1RB#99@100RB#0-0RB#0@100RB#0	-43.04	PAS S
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37850-38048	1RB#0@100RB#0-1RB#99@100RB#0	-27.95	PAS S
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37850-38048	1RB#0@100RB#0-1RB#99@100RB#0	-26.98	PAS S
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37850-38048	100RB#0@100RB#0-100RB#0@100RB#0	-36.34	PAS S
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37850-38048	100RB#0@100RB#0-100RB#0@100RB#0	-37.83	PAS S
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37952-38150	1RB#0@100RB#0-0RB#0@100RB#0	-42.66	PAS S
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37952-38150	1RB#0@100RB#0-0RB#0@100RB#0	-42.80	PAS S
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37952-38150	1RB#99@100RB#0-0RB#0@100RB#0	-42.71	PAS S
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37952-38150	1RB#99@100RB#0-0RB#0@100RB#0	-42.65	PAS S
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37952-38150	1RB#0@100RB#0-1RB#99@100RB#0	-25.39	PAS S
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37952-38150	1RB#0@100RB#0-1RB#99@100RB#0	-25.67	PAS S
38-38	20MHz-20MHz	QPSK@QPSK-QPSK@QPSK	37952-38150	100RB#0@100RB#0-100RB#0@100RB#0	-35.02	PAS S
38-38	20MHz-20MHz	16QAM@16QAM-16QAM@16QAM	37952-38150	100RB#0@100RB#0-100RB#0@100RB#0	-36.51	PAS S

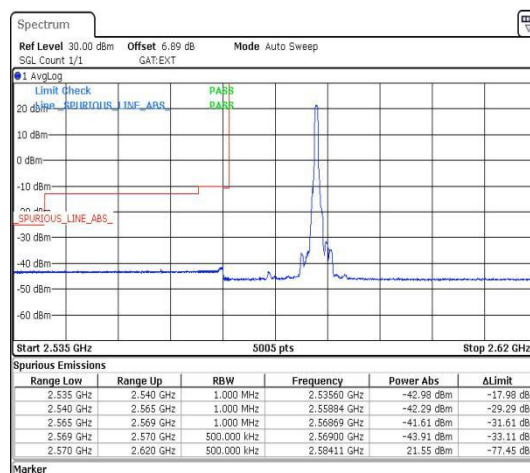
Test Graphs



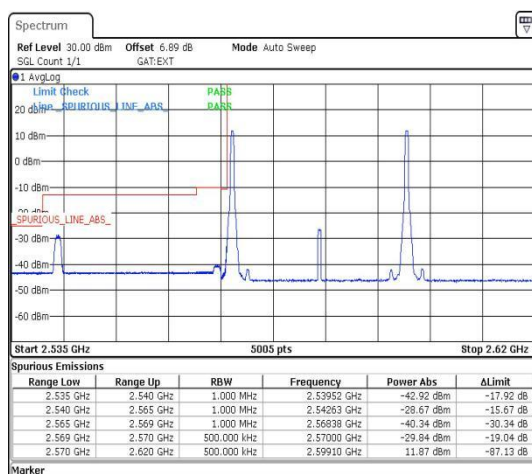
15MHz-15MHz_QPSK@QPSK-QPSK@QPSK_3
7825-37975_1RB#0@75RB#0-0RB#0@75RB#0



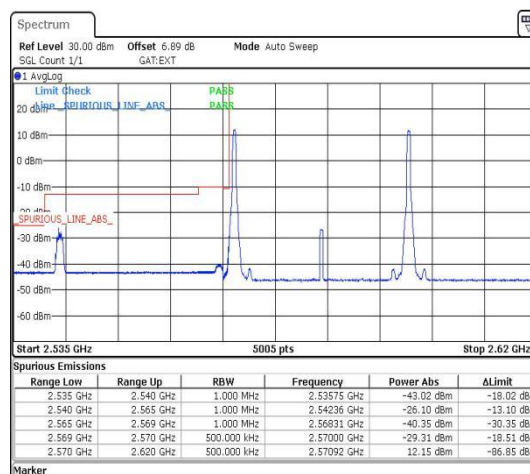
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15MHz-15MHz_QPSK@QPSK-QPSK@QPSK_3
7825-37975_1RB#74@75RB#0-0RB#0@75RB#0



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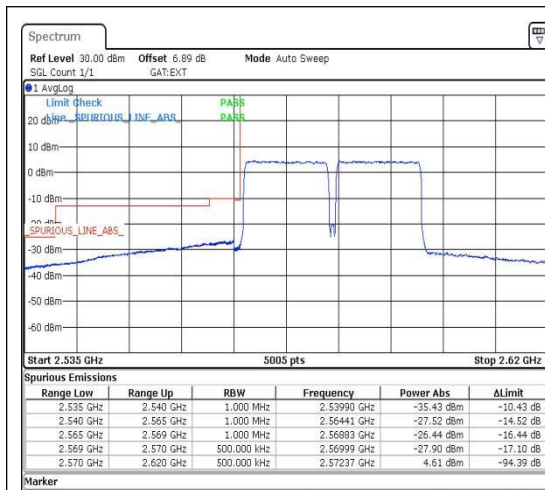


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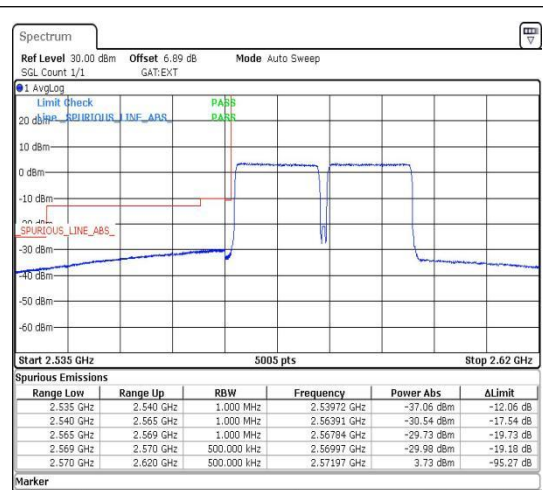


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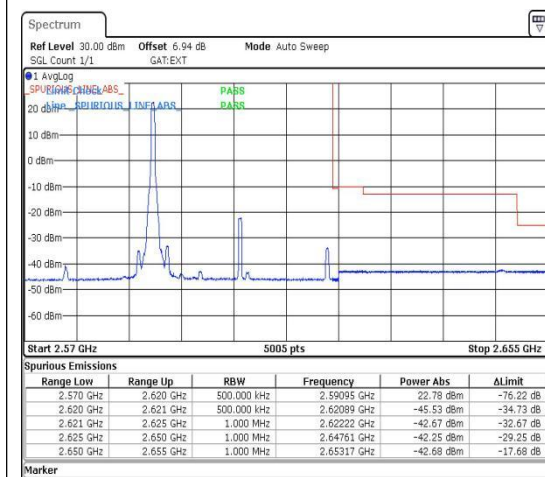




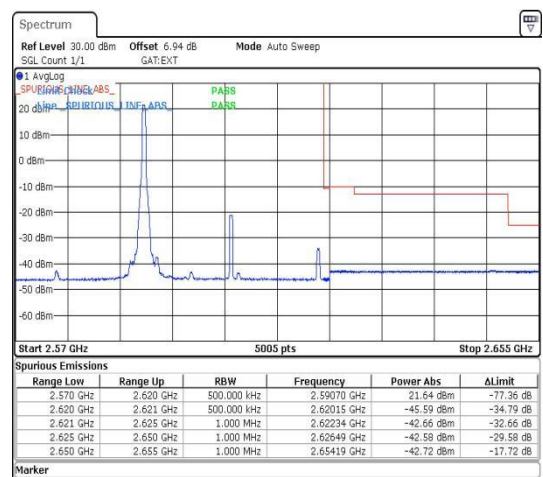
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7825-37975_75RB#0@75RB#0-75RB#0@75RB#0
#0



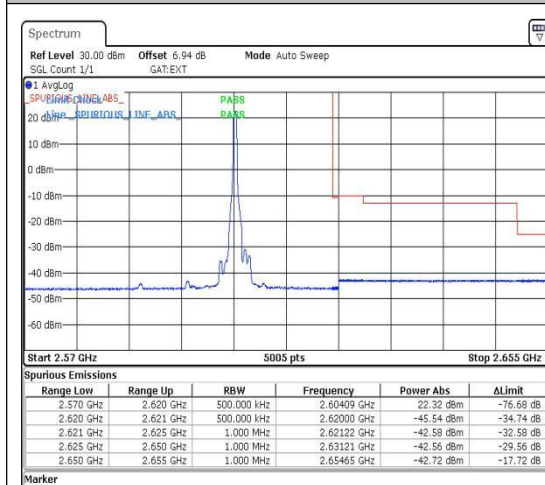
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B#0



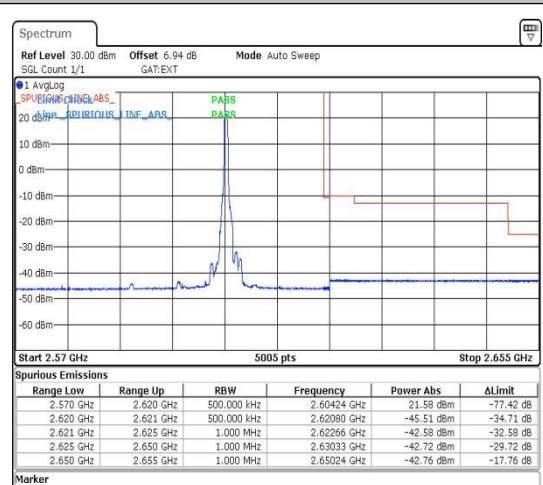
15MHz-15MHz_QPSK@QPSK-QPSK@QPSK_3
8025-38175_1RB#0@75RB#0-0RB#0@75RB#0



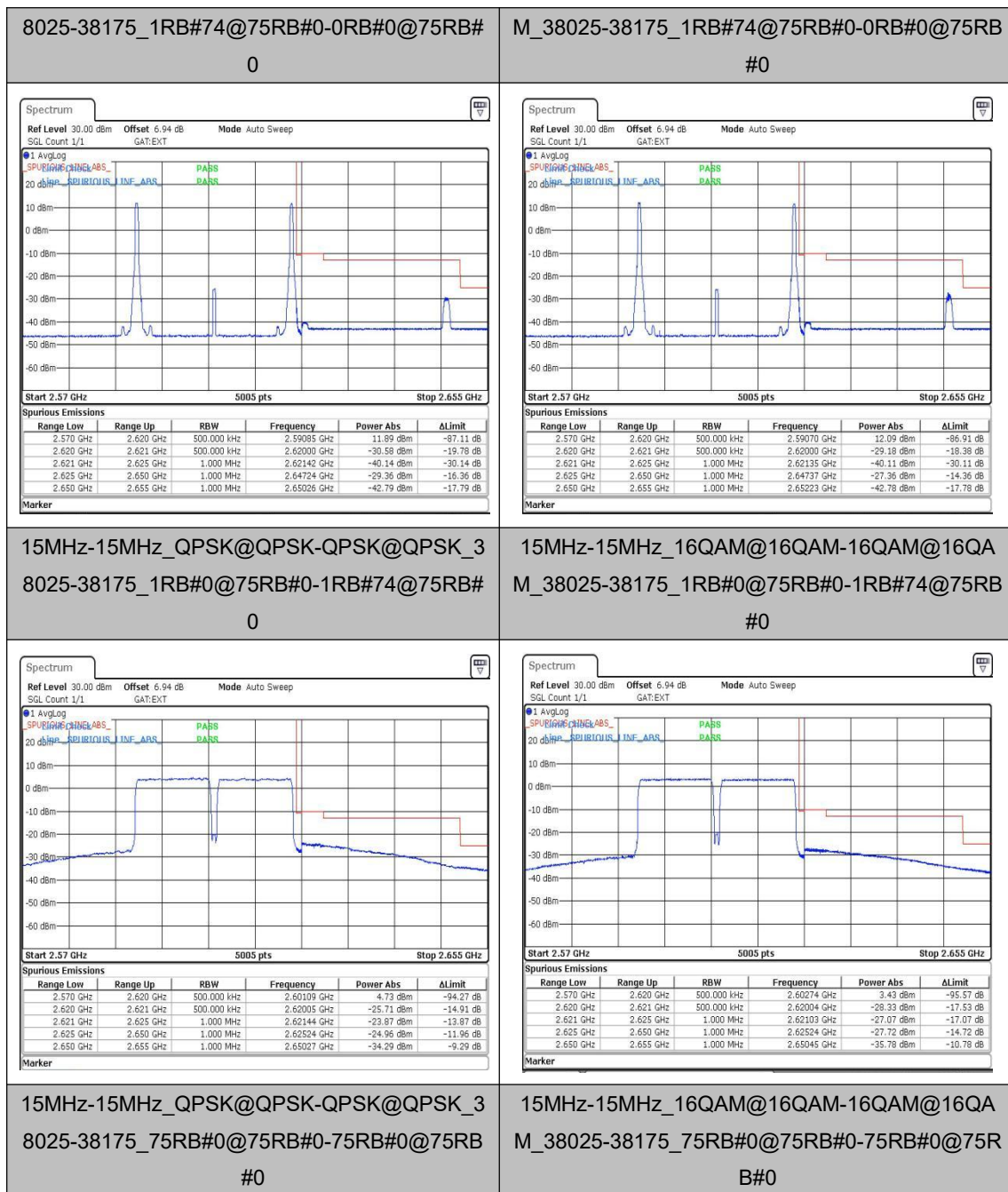
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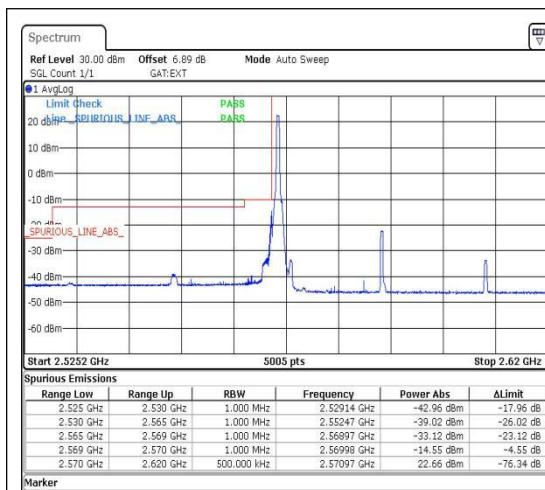


15MHz-15MHz_QPSK@QPSK-QPSK@QPSK_3

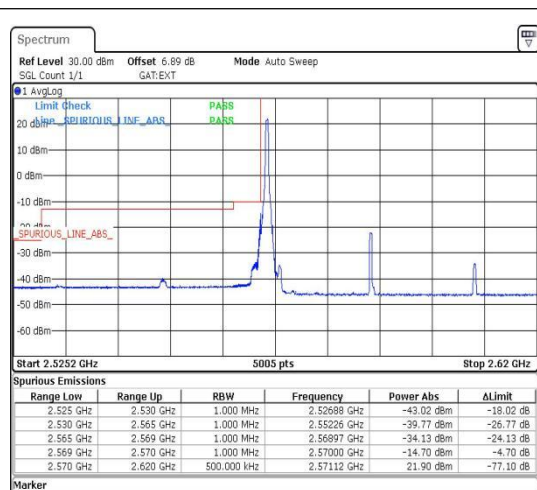


15MHz-15MHz_16QAM@16QAM-16QAM@16QAM

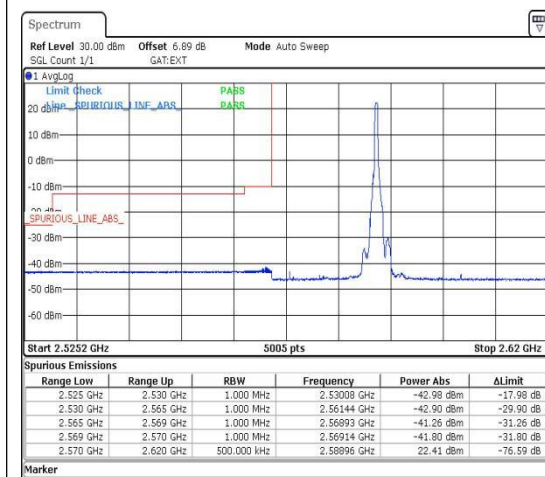




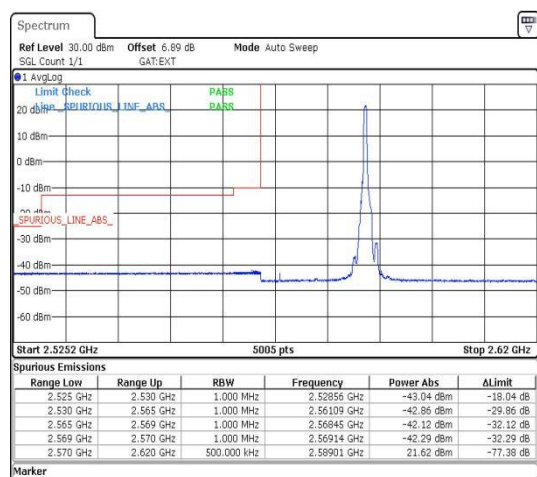
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7850-38048_1RB#0@100RB#0-0RB#0@100RB
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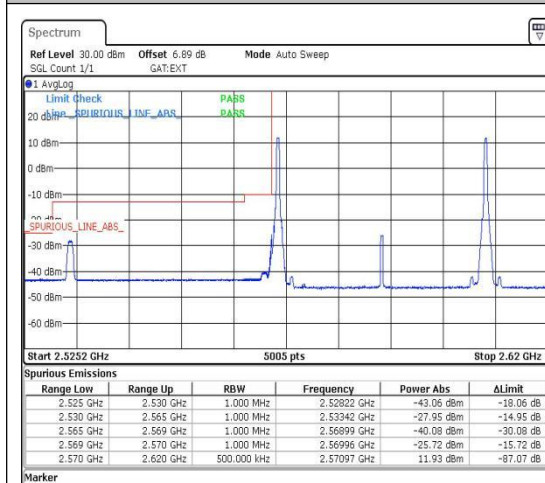
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B#0



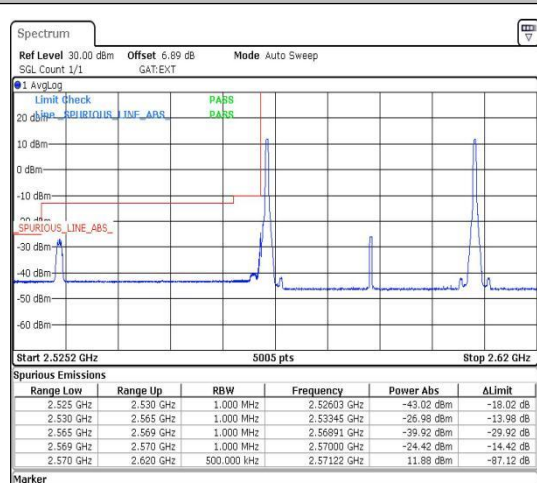
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B#0



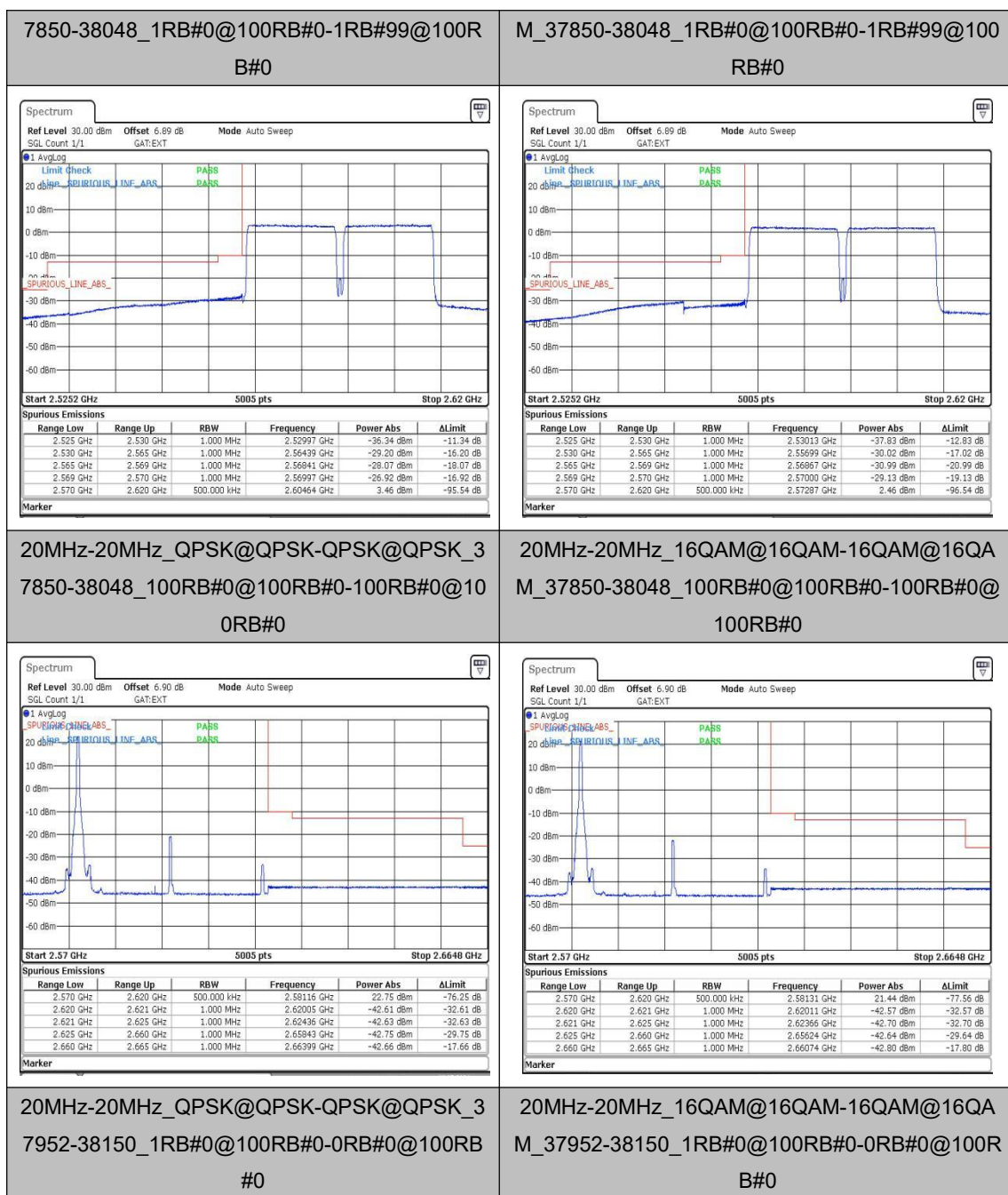
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RB#0

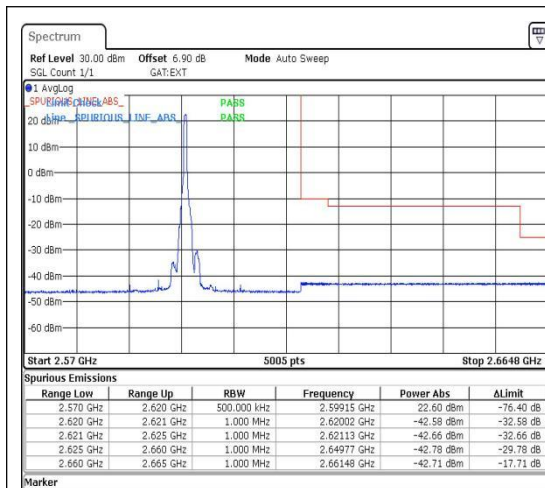


20MHz-20MHz_QPSK@QPSK-QPSK@QPSK_3

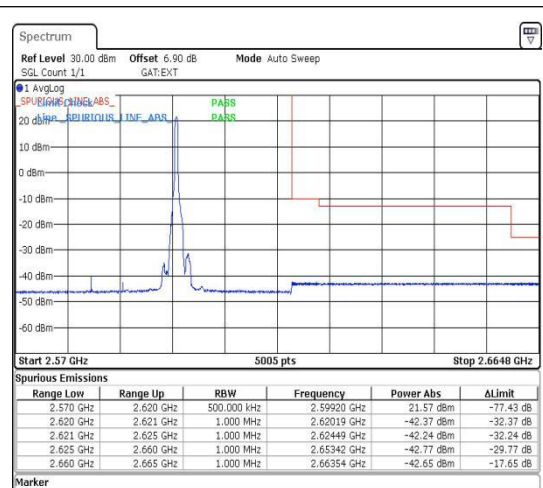


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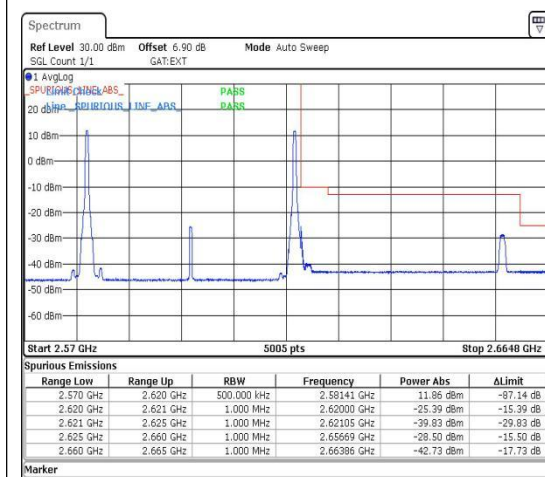




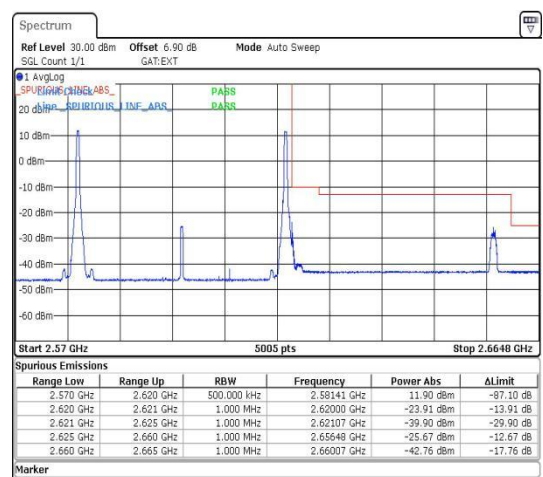
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7952-38150_1RB#99@100RB#0-0RB#0@100R
B#0



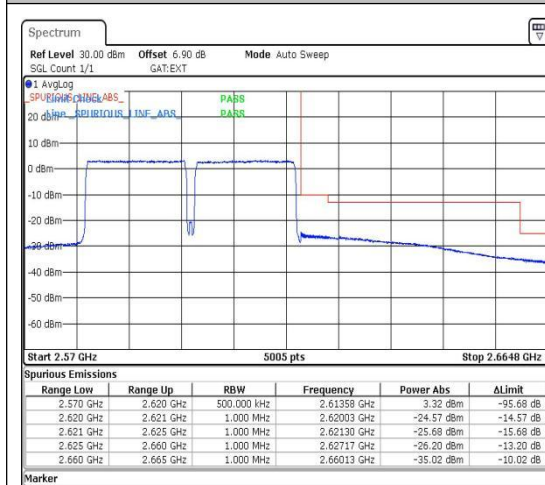
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RB#0



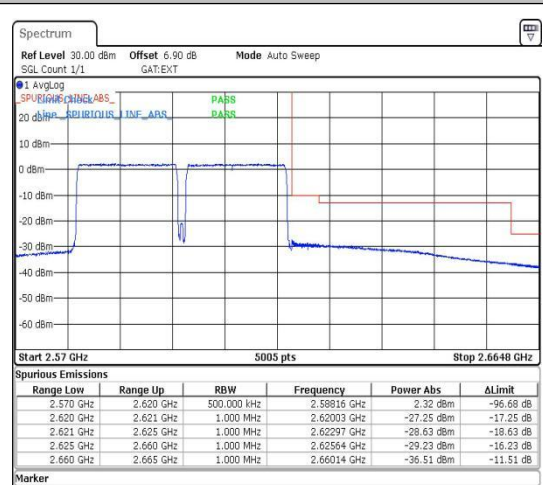
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7952-38150_1RB#0@100RB#0-1RB#99@100R
B#0



20MHz-20MHz_16QAM@16QAM-16QAM@16QAM_3
M_37952-38150_1RB#0@100RB#0-1RB#99@100
RB#0



20MHz-20MHz_QPSK@QPSK-QPSK@QPSK_3



20MHz-20MHz_16QAM@16QAM-16QAM@16QAM_3

7952-38150_100RB#0@100RB#0-100RB#0@100RB#0	M_37952-38150_100RB#0@100RB#0-100RB#0@100RB#0
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Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	0.009~0.15MHz	-59.82	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	0.15~30MHz	-71.25	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	30~1000MHz	-68.11	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	1000~20000MHz	-49.25	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	20000~27000MHz	-34.09	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	0.009~0.15MHz	-60.79	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	0.15~30MHz	-72.21	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	30~1000MHz	-68.07	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	1000~20000MHz	-48.76	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	20000~27000MHz	-34.37	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#74-0RB#0	0.009~0.15MHz	-58.77	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#74-0RB#0	0.15~30MHz	-71.66	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#74-0RB#0	30~1000MHz	-68.24	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#74-0RB#0	1000~20000MHz	-49.12	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#74-0RB#0	20000~27000MHz	-33.68	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#74-0RB#0	0.009~0.15MHz	-59.87	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#74-0RB#0	0.15~30MHz	-71.84	PASS

38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#74-0RB#0	30~1000MHz	-68.0 1	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#74-0RB#0	1000~20000M Hz	-49.0 1	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#74-0RB#0	20000~27000 MHz	-34.4	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	1RB#0-1RB#74	0.009~0.15MH z	-80.7 5	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	1RB#0-1RB#74	0.15~30MHz	-74.1 2	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	1RB#0-1RB#74	30~1000MHz	-67.8 4	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	1RB#0-1RB#74	1000~20000M Hz	-48.8 2	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	1RB#0-1RB#74	20000~27000 MHz	-34.1 3	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#0-1RB#74	0.009~0.15MH z	-80.1 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#0-1RB#74	0.15~30MHz	-74.2 4	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#0-1RB#74	30~1000MHz	-67.8 1	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#0-1RB#74	1000~20000M Hz	-48.9	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	1RB#0-1RB#74	20000~27000 MHz	-34.0 2	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	75RB#0-75RB# 0	0.009~0.15MH z	-76.4 9	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	75RB#0-75RB# 0	0.15~30MHz	-74.6 8	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	75RB#0-75RB# 0	30~1000MHz	-67.9 1	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	75RB#0-75RB# 0	1000~20000M Hz	-48.9 5	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37825-379 75	75RB#0-75RB# 0	20000~27000 MHz	-34.2 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	75RB#0-75RB# 0	0.009~0.15MH z	-78.1 3	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	75RB#0-75RB# 0	0.15~30MHz	-74.8 4	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37825-379 75	75RB#0-75RB# 0	30~1000MHz	-67.9 3	PAS S
38-3	15MHz-15M	16QAM-16Q	37825-379	75RB#0-75RB#	1000~20000M	-48.9	PAS

8	Hz	AM	75	0	Hz	5	S
38-3	15MHz-15M	16QAM-16Q	37825-379	75RB#0-75RB#	20000~27000	-34.1	PAS
8	Hz	AM	75	0	MHz	3	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#0-0RB#0	0.009~0.15MH	-58.7	PAS
8	Hz		75		z	1	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#0-0RB#0	0.15~30MHz	-70.7	PAS
8	Hz		75			9	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#0-0RB#0	30~1000MHz	-68.2	PAS
8	Hz		75			7	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#0-0RB#0	1000~20000M	-49.2	PAS
8	Hz		75		Hz	4	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#0-0RB#0	20000~27000	-34.2	PAS
8	Hz		75		MHz	3	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#0-0RB#0	0.009~0.15MH	-60.0	PAS
8	Hz	AM	75		z	6	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#0-0RB#0	0.15~30MHz	-71.9	PAS
8	Hz	AM	75			5	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#0-0RB#0	30~1000MHz	-68.0	PAS
8	Hz	AM	75			5	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#0-0RB#0	1000~20000M	-49.1	PAS
8	Hz	AM	75		Hz	2	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#0-0RB#0	20000~27000	-34.2	PAS
8	Hz	AM	75		MHz	4	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#74-0RB#0	0.009~0.15MH	-58.1	PAS
8	Hz		75		z	5	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#74-0RB#0	0.15~30MHz	-68.1	PAS
8	Hz		75			4	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#74-0RB#0	30~1000MHz	-67.7	PAS
8	Hz		75			3	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#74-0RB#0	1000~20000M	-48.8	PAS
8	Hz		75		Hz	9	S
38-3	15MHz-15M	QPSK-QPSK	37925-380	1RB#74-0RB#0	20000~27000	-34.0	PAS
8	Hz		75		MHz	9	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#74-0RB#0	0.009~0.15MH	-59.3	PAS
8	Hz	AM	75		z	9	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#74-0RB#0	0.15~30MHz	-69.6	PAS
8	Hz	AM	75			9	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#74-0RB#0	30~1000MHz	-68.0	PAS
8	Hz	AM	75			1	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#74-0RB#0	1000~20000M	-48.8	PAS
8	Hz	AM	75		Hz	7	S
38-3	15MHz-15M	16QAM-16Q	37925-380	1RB#74-0RB#0	20000~27000	-34.1	PAS
8	Hz	AM	75		MHz	7	S

38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	1RB#0-1RB#74	0.009~0.15MH z	-75.3 5	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	1RB#0-1RB#74	0.15~30MHz	-75.1 8	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	1RB#0-1RB#74	30~1000MHz	-68.0 8	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	1RB#0-1RB#74	1000~20000M Hz	-48.9 6	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	1RB#0-1RB#74	20000~27000 MHz	-34.3 5	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	1RB#0-1RB#74	0.009~0.15MH z	-77.1 9	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	1RB#0-1RB#74	0.15~30MHz	-76.2 1	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	1RB#0-1RB#74	30~1000MHz	-67.8 6	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	1RB#0-1RB#74	1000~20000M Hz	-49.1 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	1RB#0-1RB#74	20000~27000 MHz	-33.9 3	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	75RB#0-75RB# 0	0.009~0.15MH z	-79.6	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	75RB#0-75RB# 0	0.15~30MHz	-73.1 5	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	75RB#0-75RB# 0	30~1000MHz	-68	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	75RB#0-75RB# 0	1000~20000M Hz	-48.7 5	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	37925-380 75	75RB#0-75RB# 0	20000~27000 MHz	-34.1 5	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	75RB#0-75RB# 0	0.009~0.15MH z	-79.3 5	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	75RB#0-75RB# 0	0.15~30MHz	-73.5 1	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	75RB#0-75RB# 0	30~1000MHz	-68.2	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	75RB#0-75RB# 0	1000~20000M Hz	-48.9 6	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	37925-380 75	75RB#0-75RB# 0	20000~27000 MHz	-34.2 6	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-0RB#0	0.009~0.15MH z	-58.3	PAS S
38-3	15MHz-15M	QPSK-QPSK	38025-381	1RB#0-0RB#0	0.15~30MHz	-69.1	PAS

8	Hz		75			9	S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-0RB#0	30~1000MHz	-67.5 7	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-0RB#0	1000~20000M Hz	-49.0 6	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-0RB#0	20000~27000 MHz	-34.3 5	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-0RB#0	0.009~0.15MH z	-60.5 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-0RB#0	0.15~30MHz	-72.8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-0RB#0	30~1000MHz	-67.9 7	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-0RB#0	1000~20000M Hz	-48.9 4	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-0RB#0	20000~27000 MHz	-34.2 9	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#74-0RB#0	0.009~0.15MH z	-57.9 4	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#74-0RB#0	0.15~30MHz	-69.4 3	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#74-0RB#0	30~1000MHz	-67.9 1	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#74-0RB#0	1000~20000M Hz	-48.8 1	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#74-0RB#0	20000~27000 MHz	-34.5 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#74-0RB#0	0.009~0.15MH z	-60.6 6	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#74-0RB#0	0.15~30MHz	-71.0 9	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#74-0RB#0	30~1000MHz	-68.2 5	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#74-0RB#0	1000~20000M Hz	-49.0 2	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#74-0RB#0	20000~27000 MHz	-34.1 5	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-1RB#74	0.009~0.15MH z	-77.7 9	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-1RB#74	0.15~30MHz	-74.4 6	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-1RB#74	30~1000MHz	-68.0 6	PAS S

38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-1RB#74	1000~20000M Hz	-48.9 9	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	1RB#0-1RB#74	20000~27000 MHz	-34.3 6	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-1RB#74	0.009~0.15MH z	-79.0 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-1RB#74	0.15~30MHz	-75.5 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-1RB#74	30~1000MHz	-67.8 9	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-1RB#74	1000~20000M Hz	-48.9 9	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	1RB#0-1RB#74	20000~27000 MHz	-33.9 4	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	75RB#0-75RB# 0	0.009~0.15MH z	-77.2 7	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	75RB#0-75RB# 0	0.15~30MHz	-71.6 8	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	75RB#0-75RB# 0	30~1000MHz	-67.9 7	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	75RB#0-75RB# 0	1000~20000M Hz	-48.9 2	PAS S
38-3 8	15MHz-15M Hz	QPSK-QPSK	38025-381 75	75RB#0-75RB# 0	20000~27000 MHz	-34.3	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	75RB#0-75RB# 0	0.009~0.15MH z	-78.3 5	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	75RB#0-75RB# 0	0.15~30MHz	-72.7 3	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	75RB#0-75RB# 0	30~1000MHz	-68.1 4	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	75RB#0-75RB# 0	1000~20000M Hz	-48.9 8	PAS S
38-3 8	15MHz-15M Hz	16QAM-16Q AM	38025-381 75	75RB#0-75RB# 0	20000~27000 MHz	-34.3 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	1RB#0-0RB#0	0.009~0.15MH z	-60.1 3	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	1RB#0-0RB#0	0.15~30MHz	-70.7	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	1RB#0-0RB#0	30~1000MHz	-67.8 9	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	1RB#0-0RB#0	1000~20000M Hz	-49.0 6	PAS S
38-3	20MHz-20M	QPSK-QPSK	37850-380	1RB#0-0RB#0	20000~27000	-34.2	PAS

8	Hz		48		MHz	8	S
38-3	20MHz-20M	16QAM-16Q	37850-380		0.009~0.15MH		PAS
8	Hz	AM	48	1RB#0-0RB#0	z	-61.3	S
38-3	20MHz-20M	16QAM-16Q	37850-380		0.15~30MHz	-69.9	PAS
8	Hz	AM	48	1RB#0-0RB#0			S
38-3	20MHz-20M	16QAM-16Q	37850-380		30~1000MHz	-67.9	PAS
8	Hz	AM	48	1RB#0-0RB#0		7	S
38-3	20MHz-20M	16QAM-16Q	37850-380		1000~20000M	-49.0	PAS
8	Hz	AM	48	1RB#0-0RB#0	Hz	1	S
38-3	20MHz-20M	16QAM-16Q	37850-380		20000~27000	-34.2	PAS
8	Hz	AM	48	1RB#0-0RB#0	MHz	2	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		0.009~0.15MH	-58.0	PAS
8	Hz		48	1RB#99-0RB#0	z	9	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		0.15~30MHz	-68.9	PAS
8	Hz		48	1RB#99-0RB#0		1	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		30~1000MHz	-68.0	PAS
8	Hz		48	1RB#99-0RB#0		7	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		1000~20000M	-49.0	PAS
8	Hz		48	1RB#99-0RB#0	Hz	4	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		20000~27000	-33.8	PAS
8	Hz		48	1RB#99-0RB#0	MHz	3	S
38-3	20MHz-20M	16QAM-16Q	37850-380		0.009~0.15MH	-60.0	PAS
8	Hz	AM	48	1RB#99-0RB#0	z	8	S
38-3	20MHz-20M	16QAM-16Q	37850-380		0.15~30MHz	-71.1	PAS
8	Hz	AM	48	1RB#99-0RB#0		4	S
38-3	20MHz-20M	16QAM-16Q	37850-380		30~1000MHz	-67.9	PAS
8	Hz	AM	48	1RB#99-0RB#0			S
38-3	20MHz-20M	16QAM-16Q	37850-380		1000~20000M	-49.0	PAS
8	Hz	AM	48	1RB#99-0RB#0	Hz	6	S
38-3	20MHz-20M	16QAM-16Q	37850-380		20000~27000	-34.2	PAS
8	Hz	AM	48	1RB#99-0RB#0	MHz	6	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		0.009~0.15MH	-79.9	PAS
8	Hz		48	1RB#0-1RB#99	z		S
38-3	20MHz-20M	QPSK-QPSK	37850-380		0.15~30MHz	-75.8	PAS
8	Hz		48	1RB#0-1RB#99		6	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		30~1000MHz	-68.0	PAS
8	Hz		48	1RB#0-1RB#99		2	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		1000~20000M	-44.0	PAS
8	Hz		48	1RB#0-1RB#99	Hz	8	S
38-3	20MHz-20M	QPSK-QPSK	37850-380		20000~27000	-34.3	PAS
8	Hz		48	1RB#0-1RB#99	MHz	7	S
38-3	20MHz-20M	16QAM-16Q	37850-380		0.009~0.15MH	-80.0	PAS
8	Hz	AM	48	1RB#0-1RB#99	z	7	S

38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	1RB#0-1RB#99	0.15~30MHz	-74.4 9	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	1RB#0-1RB#99	30~1000MHz	-68.0 6	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	1RB#0-1RB#99	1000~20000M Hz	-45.8 1	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	1RB#0-1RB#99	20000~27000 MHz	-34.4 3	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	100RB#0-100R B#0	0.009~0.15MH z	-77.0 4	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	100RB#0-100R B#0	0.15~30MHz	-75.2 7	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	100RB#0-100R B#0	30~1000MHz	-68.2 5	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	100RB#0-100R B#0	1000~20000M Hz	-49.1 5	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37850-380 48	100RB#0-100R B#0	20000~27000 MHz	-34.3 2	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	100RB#0-100R B#0	0.009~0.15MH z	-78.6 5	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	100RB#0-100R B#0	0.15~30MHz	-74.9 4	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	100RB#0-100R B#0	30~1000MHz	-68.1 3	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	100RB#0-100R B#0	1000~20000M Hz	-48.8 5	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37850-380 48	100RB#0-100R B#0	20000~27000 MHz	-34.3 6	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	1RB#0-0RB#0	0.009~0.15MH z	-59.4 3	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	1RB#0-0RB#0	0.15~30MHz	-68.1 4	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	1RB#0-0RB#0	30~1000MHz	-67.9 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	1RB#0-0RB#0	1000~20000M Hz	-49.0 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	1RB#0-0RB#0	20000~27000 MHz	-34.2 4	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	1RB#0-0RB#0	0.009~0.15MH z	-61.2 2	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	1RB#0-0RB#0	0.15~30MHz	-71.3 5	PAS S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#0-0RB#0	30~1000MHz	-68.0	PAS

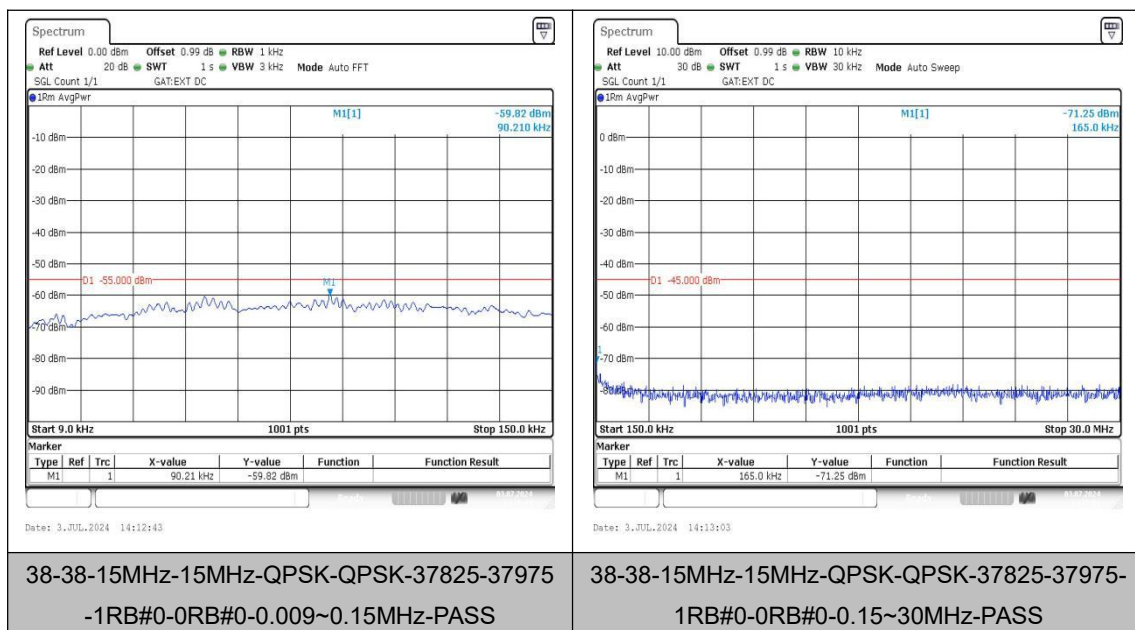
8	Hz	AM	99			6	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#0-0RB#0	1000~20000M	-48.7	PAS
8	Hz	AM	99		Hz	5	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#0-0RB#0	20000~27000	-34.1	PAS
8	Hz	AM	99		MHz	7	S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#99-0RB#0	0.009~0.15MH	-57.8	PAS
8	Hz		99		z		S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#99-0RB#0	0.15~30MHz	-68.1	PAS
8	Hz		99				S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#99-0RB#0	30~1000MHz	-68.0	PAS
8	Hz		99			7	S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#99-0RB#0	1000~20000M	-49	PAS
8	Hz		99		Hz		S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#99-0RB#0	20000~27000	-34.3	PAS
8	Hz		99		MHz		S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#99-0RB#0	0.009~0.15MH	-60.0	PAS
8	Hz	AM	99		z	9	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#99-0RB#0	0.15~30MHz	-70.7	PAS
8	Hz	AM	99			9	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#99-0RB#0	30~1000MHz	-68.0	PAS
8	Hz	AM	99			6	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#99-0RB#0	1000~20000M	-48.9	PAS
8	Hz	AM	99		Hz	9	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#99-0RB#0	20000~27000	-34.1	PAS
8	Hz	AM	99		MHz	1	S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#0-1RB#99	0.009~0.15MH	-77.6	PAS
8	Hz		99		z	4	S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#0-1RB#99	0.15~30MHz	-75.5	PAS
8	Hz		99			6	S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#0-1RB#99	30~1000MHz	-68.1	PAS
8	Hz		99			7	S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#0-1RB#99	1000~20000M	-49.0	PAS
8	Hz		99		Hz	6	S
38-3	20MHz-20M	QPSK-QPSK	37901-380	1RB#0-1RB#99	20000~27000	-34.0	PAS
8	Hz		99		MHz	7	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#0-1RB#99	0.009~0.15MH	-78.9	PAS
8	Hz	AM	99		z	5	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#0-1RB#99	0.15~30MHz	-74.5	PAS
8	Hz	AM	99				S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#0-1RB#99	30~1000MHz	-68.0	PAS
8	Hz	AM	99			1	S
38-3	20MHz-20M	16QAM-16Q	37901-380	1RB#0-1RB#99	1000~20000M	-48.9	PAS
8	Hz	AM	99		Hz		S

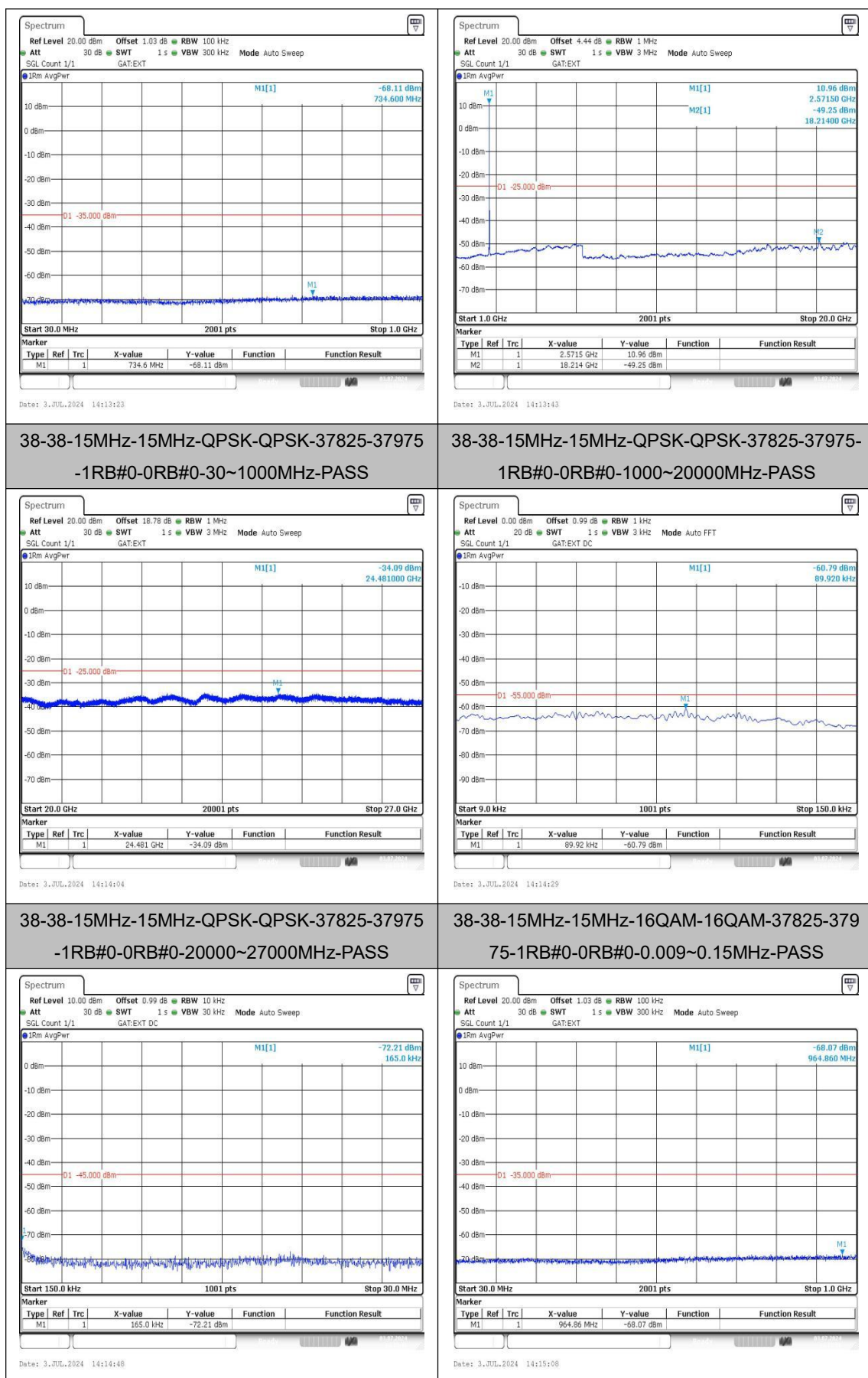
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	1RB#0-1RB#99	20000~27000 MHz	-34.2 3	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	100RB#0-100R B#0	0.009~0.15MH z	-78.7 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	100RB#0-100R B#0	0.15~30MHz	-74.9 9	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	100RB#0-100R B#0	30~1000MHz	-68.0 6	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	100RB#0-100R B#0	1000~20000M Hz	-48.9 7	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37901-380 99	100RB#0-100R B#0	20000~27000 MHz	-34.4 5	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	100RB#0-100R B#0	0.009~0.15MH z	-80.0 7	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	100RB#0-100R B#0	0.15~30MHz	-74.8 1	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	100RB#0-100R B#0	30~1000MHz	-68.0 3	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	100RB#0-100R B#0	1000~20000M Hz	-49.0 6	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37901-380 99	100RB#0-100R B#0	20000~27000 MHz	-34.3 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-0RB#0	0.009~0.15MH z	-58.3 9	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-0RB#0	0.15~30MHz	-68.8 5	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-0RB#0	30~1000MHz	-68 S	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-0RB#0	1000~20000M Hz	-49.1 4	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-0RB#0	20000~27000 MHz	-34.3 7	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-0RB#0	0.009~0.15MH z	-59.8 9	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-0RB#0	0.15~30MHz	-68.7 9	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-0RB#0	30~1000MHz	-68.1 7	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-0RB#0	1000~20000M Hz	-48.9 2	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-0RB#0	20000~27000 MHz	-34.2 1	PAS S
38-3	20MHz-20M	QPSK-QPSK	37952-381	1RB#99-0RB#0	0.009~0.15MH	-58.2	PAS

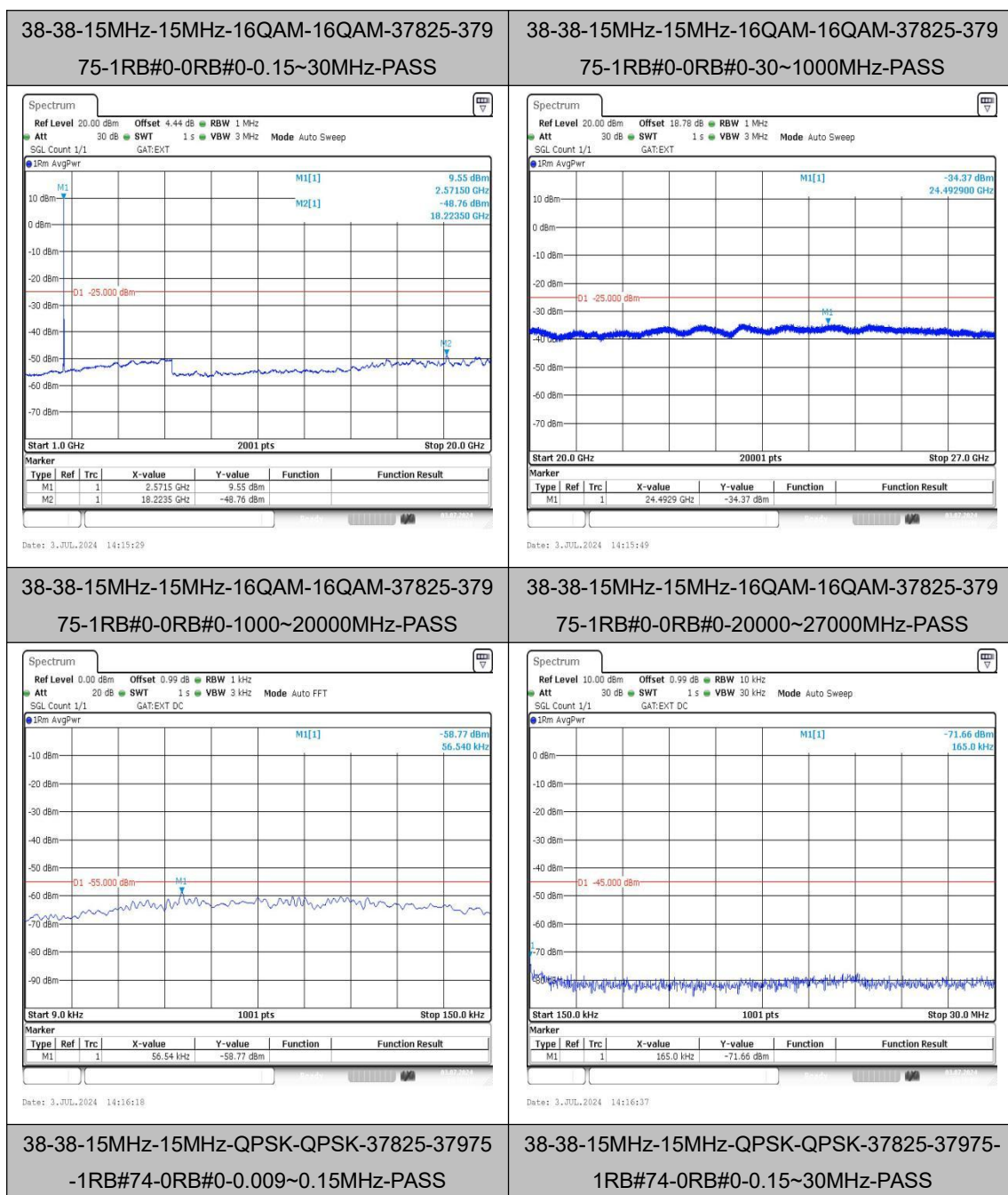
8	Hz		50		z	6	S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#99-0RB#0	0.15~30MHz	-68.8 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#99-0RB#0	30~1000MHz	-67.9 5	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#99-0RB#0	1000~20000M Hz	-49.0 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#99-0RB#0	20000~27000 MHz	-34.2 9	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#99-0RB#0	0.009~0.15MH z	-59.6 9	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#99-0RB#0	0.15~30MHz	-68.8 6	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#99-0RB#0	30~1000MHz	-68.2	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#99-0RB#0	1000~20000M Hz	-49.0 8	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#99-0RB#0	20000~27000 MHz	-34.2 2	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-1RB#99	0.009~0.15MH z	-75.9 6	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-1RB#99	0.15~30MHz	-74.5 8	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-1RB#99	30~1000MHz	-67.9 3	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-1RB#99	1000~20000M Hz	-49.1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	1RB#0-1RB#99	20000~27000 MHz	-33.9 8	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-1RB#99	0.009~0.15MH z	-79.0 1	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-1RB#99	0.15~30MHz	-75.2 5	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-1RB#99	30~1000MHz	-67.9 2	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-1RB#99	1000~20000M Hz	-49.0 7	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	1RB#0-1RB#99	20000~27000 MHz	-34.4 1	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	100RB#0-100R B#0	0.009~0.15MH z	-79.1 2	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	100RB#0-100R B#0	0.15~30MHz	-75.8 8	PAS S

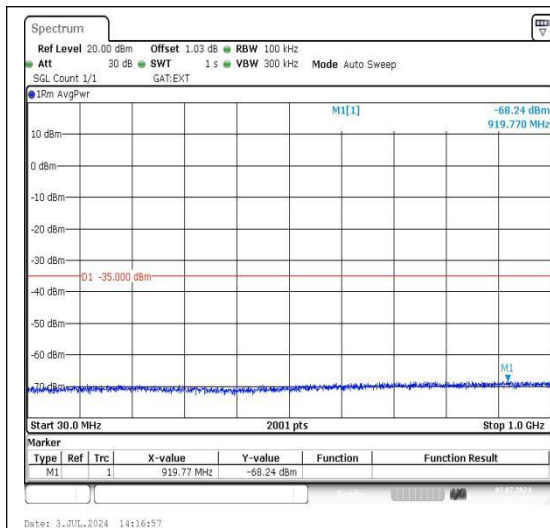
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	100RB#0-100R B#0	30~1000MHz	-68.2 5	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	100RB#0-100R B#0	1000~20000M Hz	-48.9 4	PAS S
38-3 8	20MHz-20M Hz	QPSK-QPSK	37952-381 50	100RB#0-100R B#0	20000~27000 MHz	-34.2 6	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	100RB#0-100R B#0	0.009~0.15MH z	-79.9 6	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	100RB#0-100R B#0	0.15~30MHz	-75.3 5	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	100RB#0-100R B#0	30~1000MHz	-67.9 5	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	100RB#0-100R B#0	1000~20000M Hz	-49.1 2	PAS S
38-3 8	20MHz-20M Hz	16QAM-16Q AM	37952-381 50	100RB#0-100R B#0	20000~27000 MHz	-34.2 9	PAS S

Test Graphs

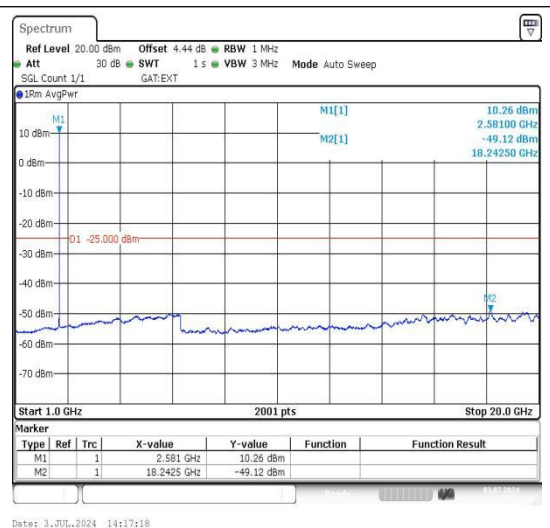




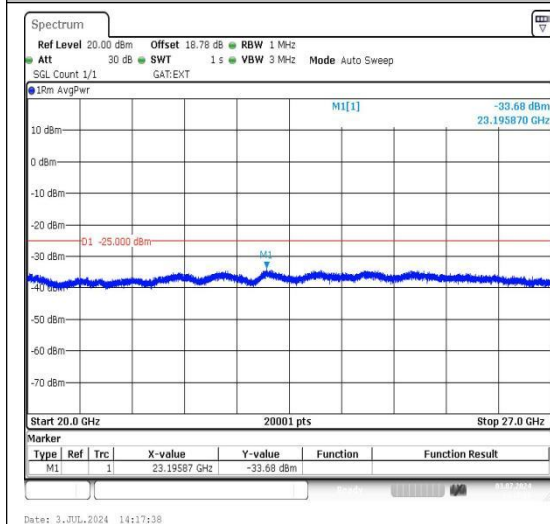




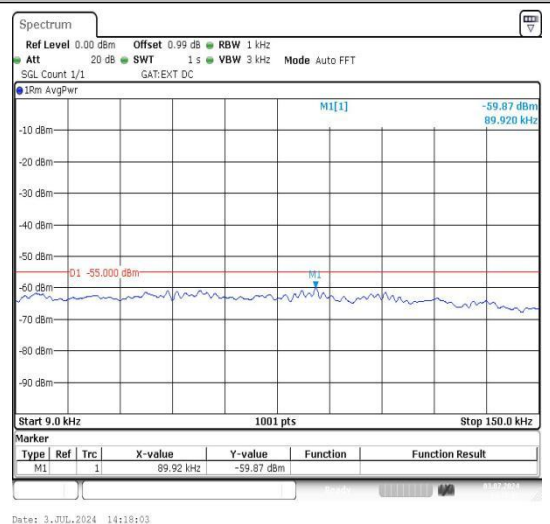
38-38-15MHz-15MHz-QPSK-QPSK-37825-37975
-1RB#74-ORB#0-30~1000MHz-PASS



38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-
1RB#74-ORB#0-1000~20000MHz-PASS



38-38-15MHz-15MHz-QPSK-QPSK-37825-37975
-1RB#74-ORB#0-20000~27000MHz-PASS



38-38-15MHz-15MHz-16QAM-16QAM-37825-379
75-1RB#74-ORB#0-0.009~0.15MHz-PASS

