

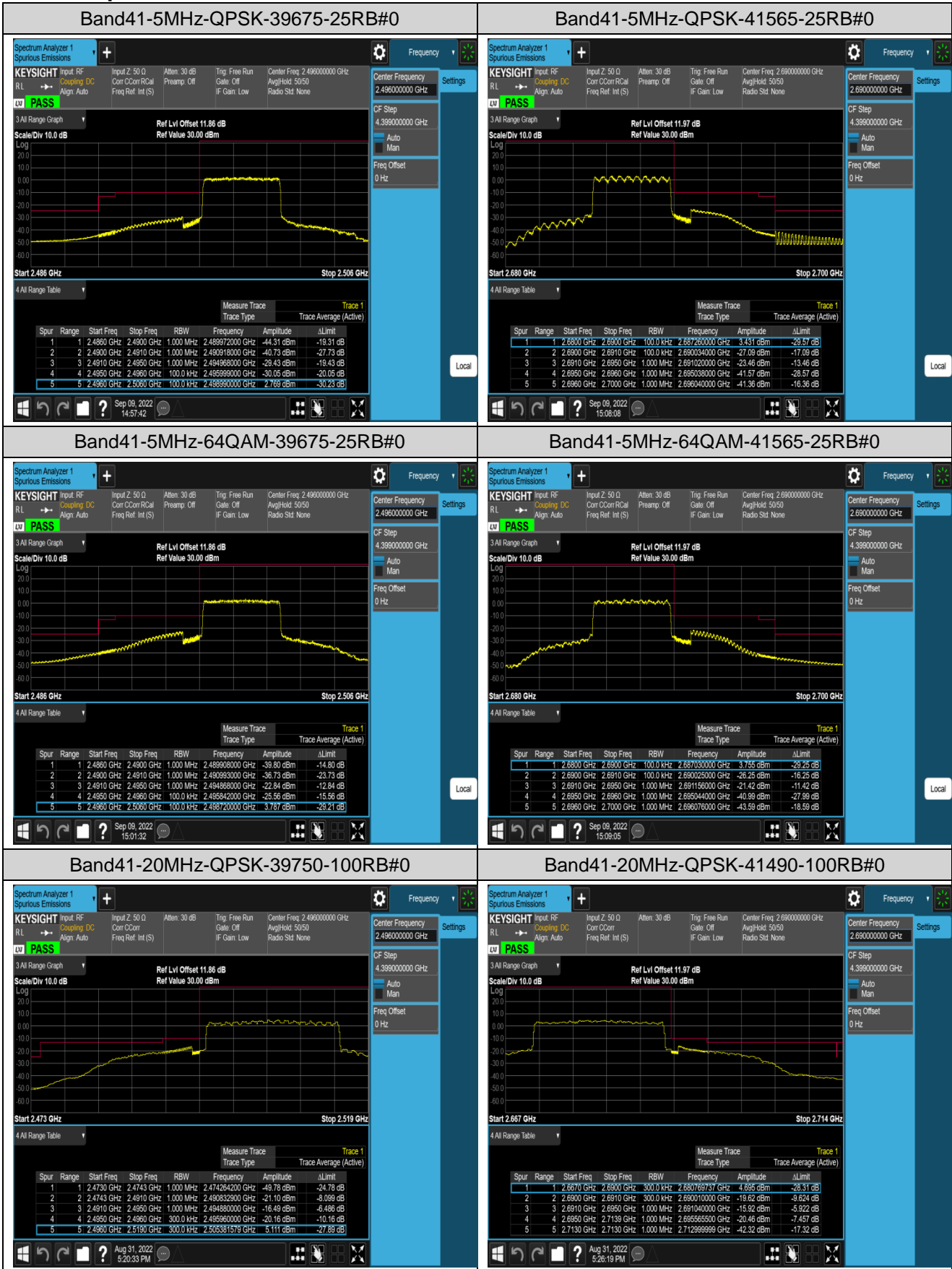
Appendix D: Band Edge For ANT3

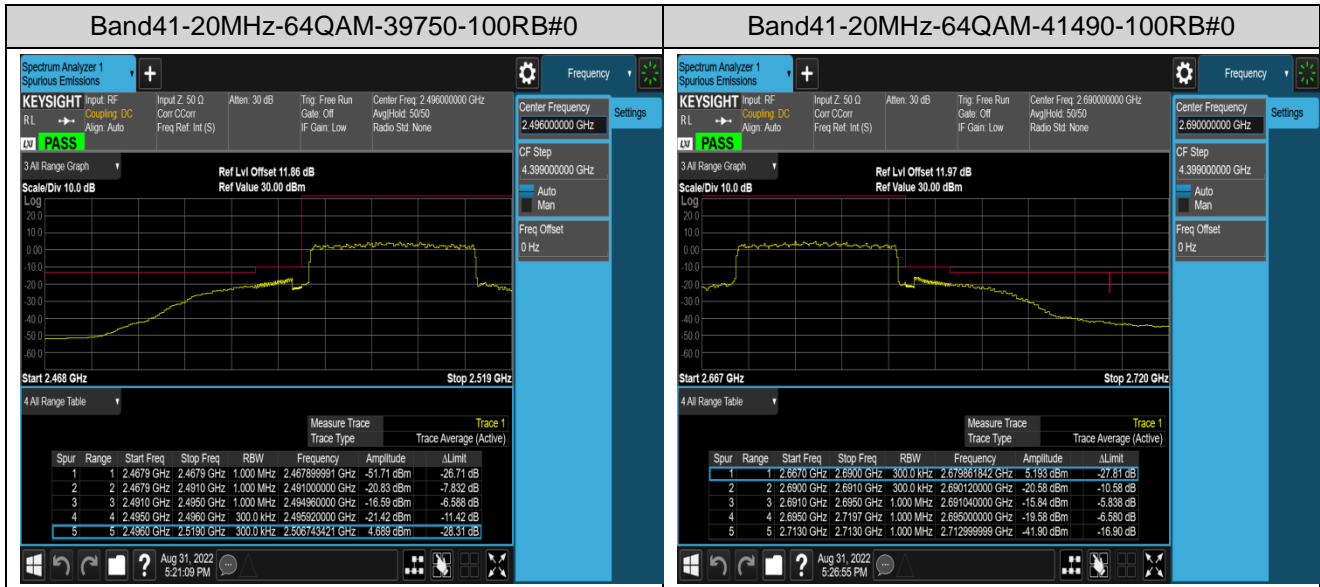
Test Result (worst case)

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	-44.31,-40.73,-29.43,-30.05	PASS
Band41	5MHz	QPSK	41565	25RB#0	-27.09,-23.46,-41.57,-41.36	PASS
Band41	5MHz	64QAM	39675	25RB#0	-39.80,-36.73,-22.84,-25.56	PASS
Band41	5MHz	64QAM	41565	25RB#0	-26.25,-21.42,-40.99,-43.59	PASS
Band41	20MHz	QPSK	39750	100RB#0	-49.78,-21.10,-16.49,-20.16	PASS
Band41	20MHz	QPSK	41490	100RB#0	-19.62,-15.92,-20.46,-42.32	PASS
Band41	20MHz	64QAM	39750	100RB#0	-51.71,-20.83,-16.59,-21.42	PASS
Band41	20MHz	64QAM	41490	100RB#0	-20.58,-15.84,-19.58,-41.90	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs





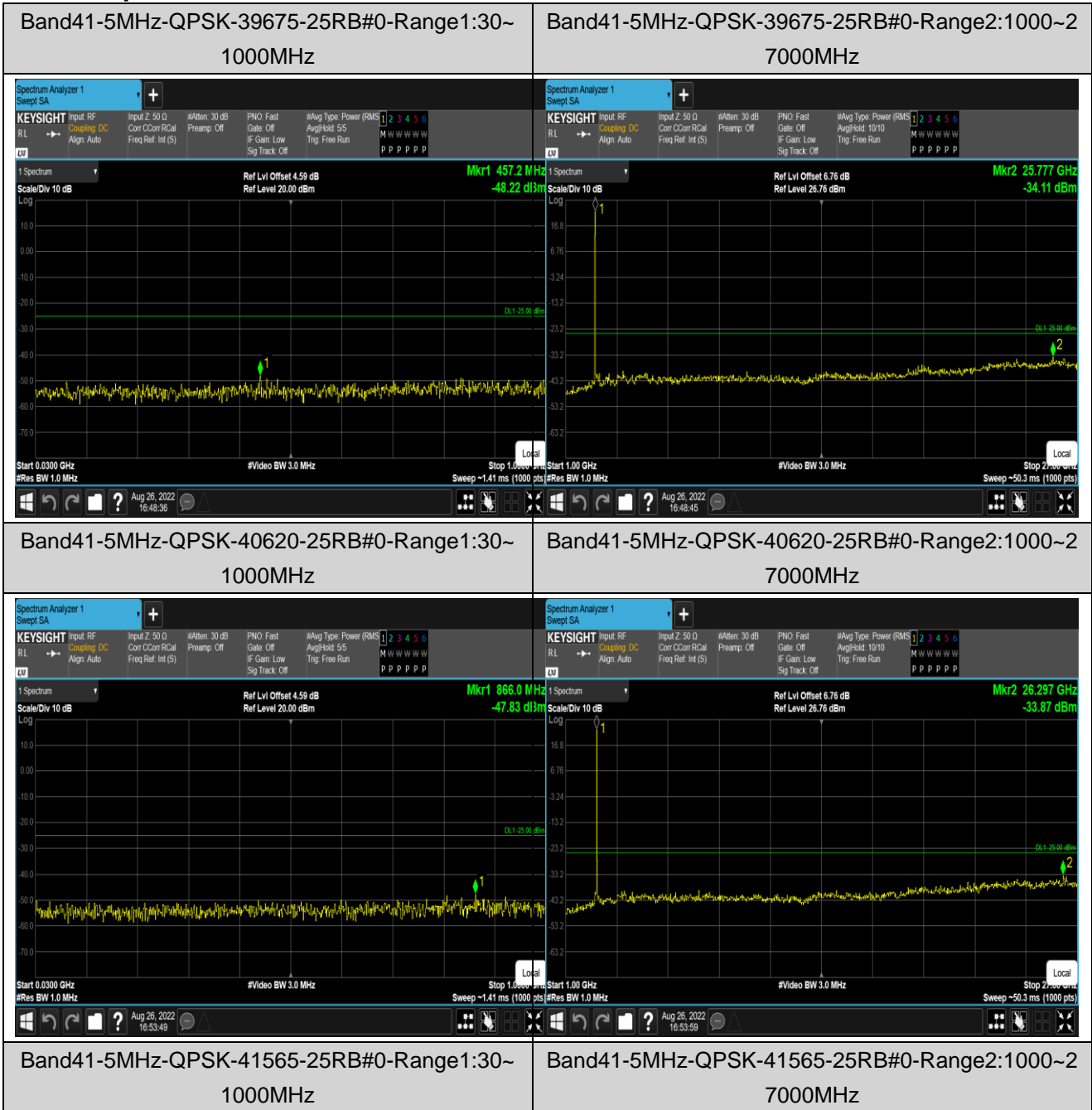
Appendix E: Conducted Spurious Emission For ANT1

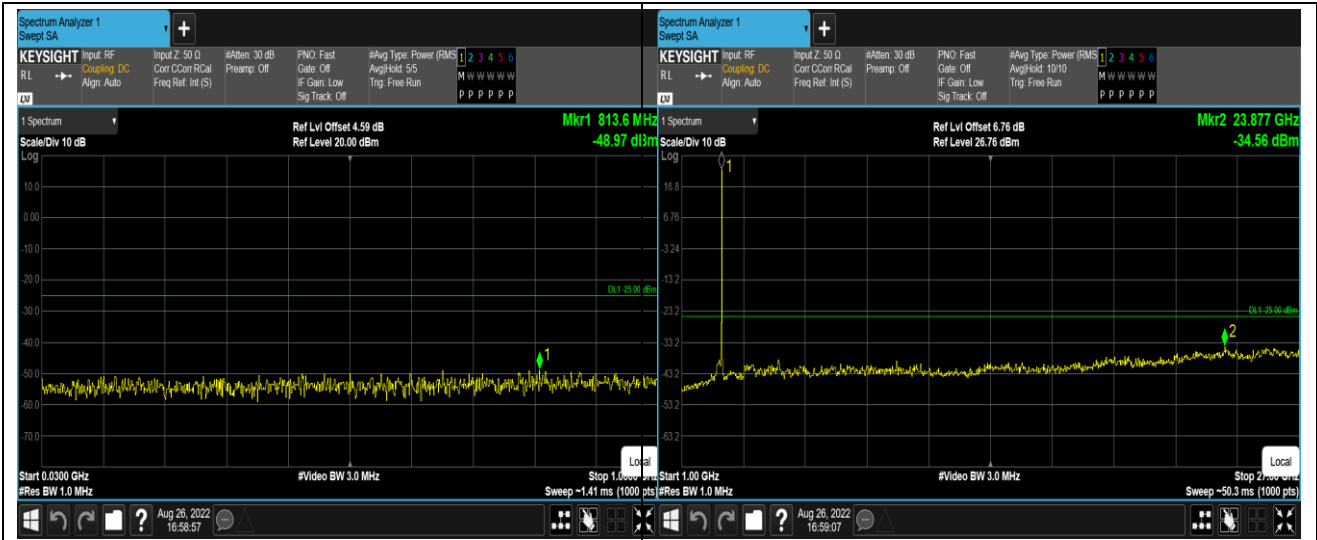
Test Result (worst case)

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	Range1:30~1000MHz	-48.22	PASS
Band41	5MHz	QPSK	39675	25RB#0	Range2:1000~27000MHz	-34.11	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range1:30~1000MHz	-47.83	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range2:1000~27000MHz	-33.88	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range1:30~1000MHz	-48.97	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range2:1000~27000MHz	-34.56	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range1:30~1000MHz	-48.12	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range2:1000~27000MHz	-34.49	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range1:30~1000MHz	-48.12	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range2:1000~27000MHz	-35.41	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range1:30~1000MHz	-48.67	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range2:1000~27000MHz	-34.42	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range1:30~1000MHz	-47.28	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range2:1000~27000MHz	-35.37	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range1:30~1000MHz	-47.81	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range2:1000~27000MHz	-34.61	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range1:30~1000MHz	-46.97	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range2:1000~27000MHz	-34.85	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range1:30~1000MHz	-47.43	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range2:1000~27000MHz	-35.16	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range1:30~1000MHz	-48.26	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range2:1000~27000MHz	-35.13	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range1:30~1000MHz	-47.33	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range2:1000~27000MHz	-34.89	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

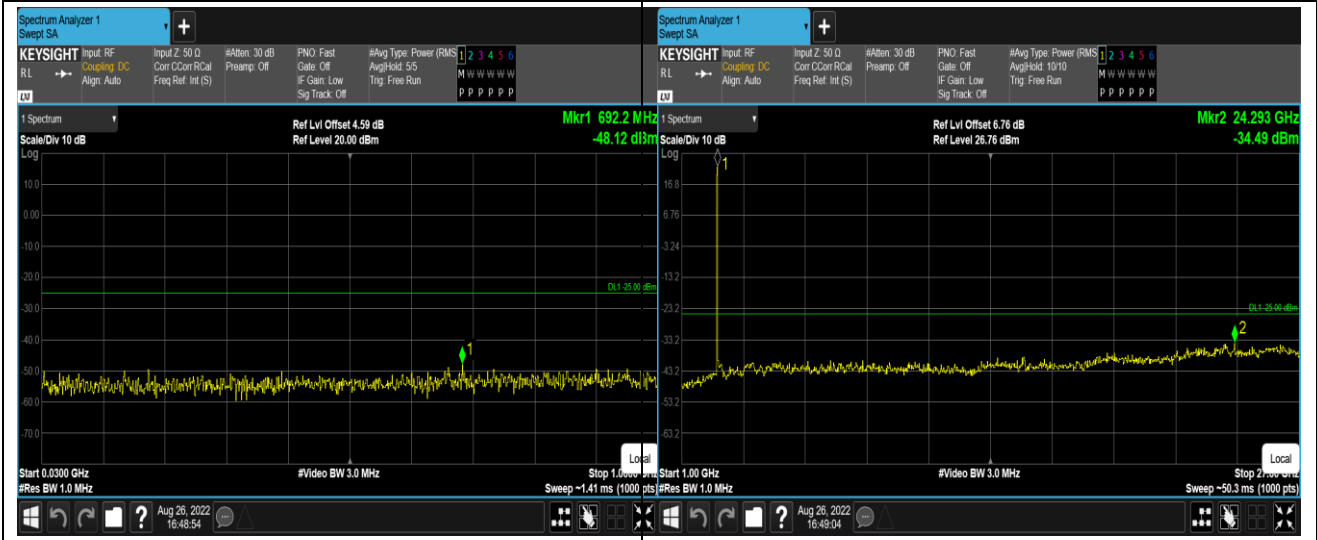
Test Graphs





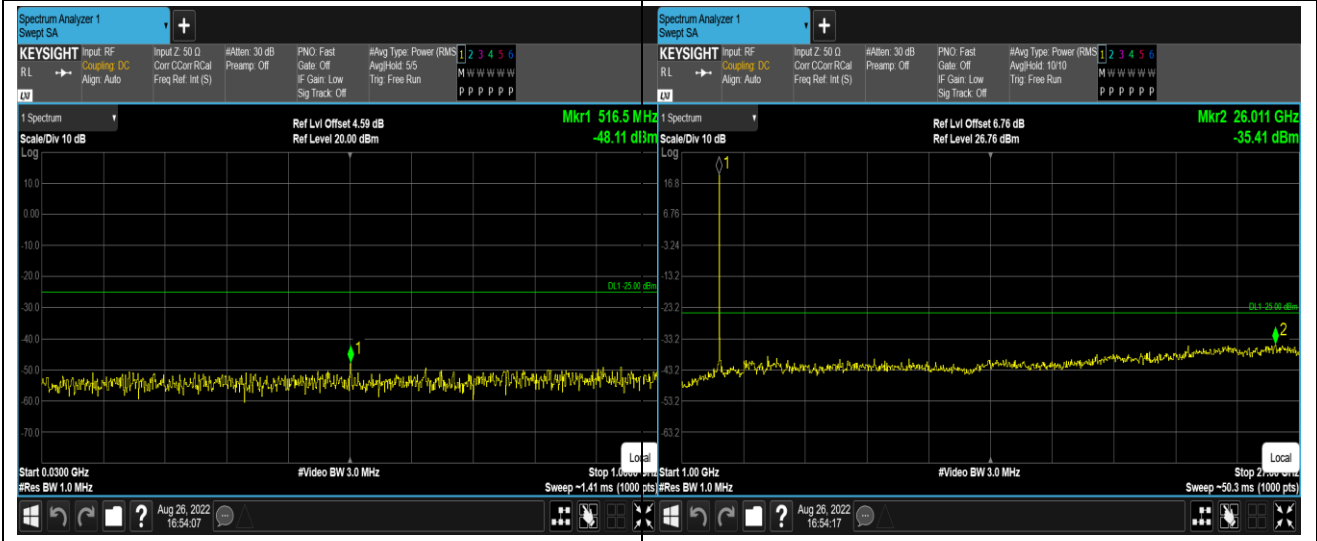
Band41-5MHz-64QAM-39675-25RB#0-Range1:30
~1000MHz

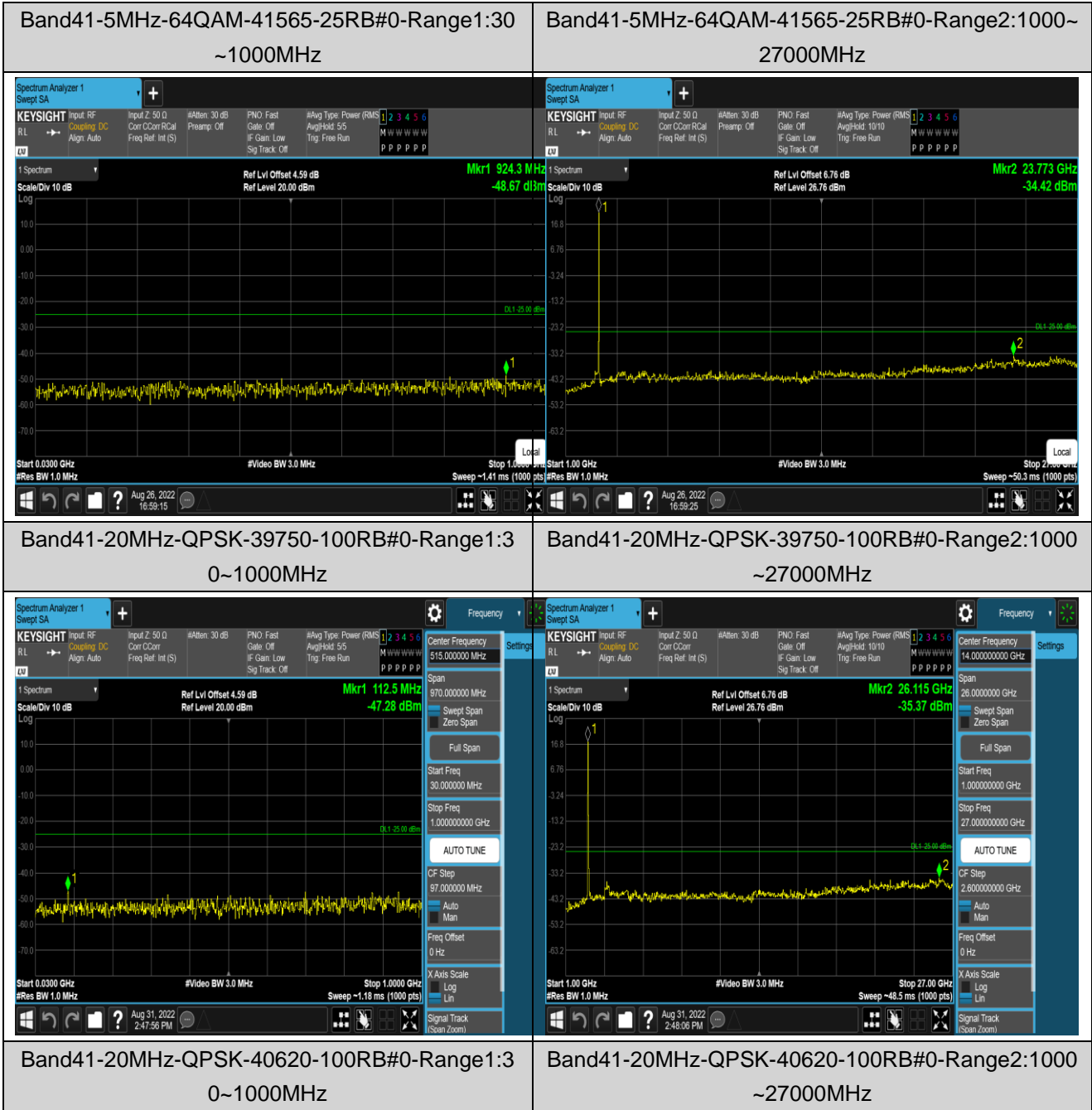
Band41-5MHz-64QAM-39675-25RB#0-Range2:1000~
27000MHz

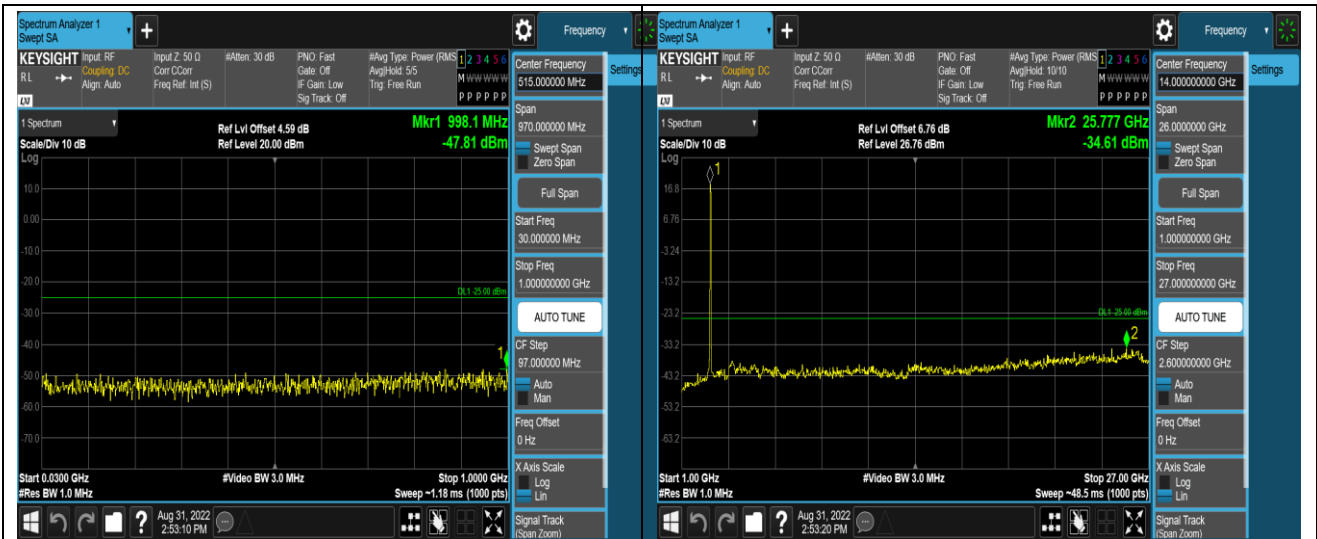


Band41-5MHz-64QAM-40620-25RB#0-Range1:30
~1000MHz

Band41-5MHz-64QAM-40620-25RB#0-Range2:1000~
27000MHz







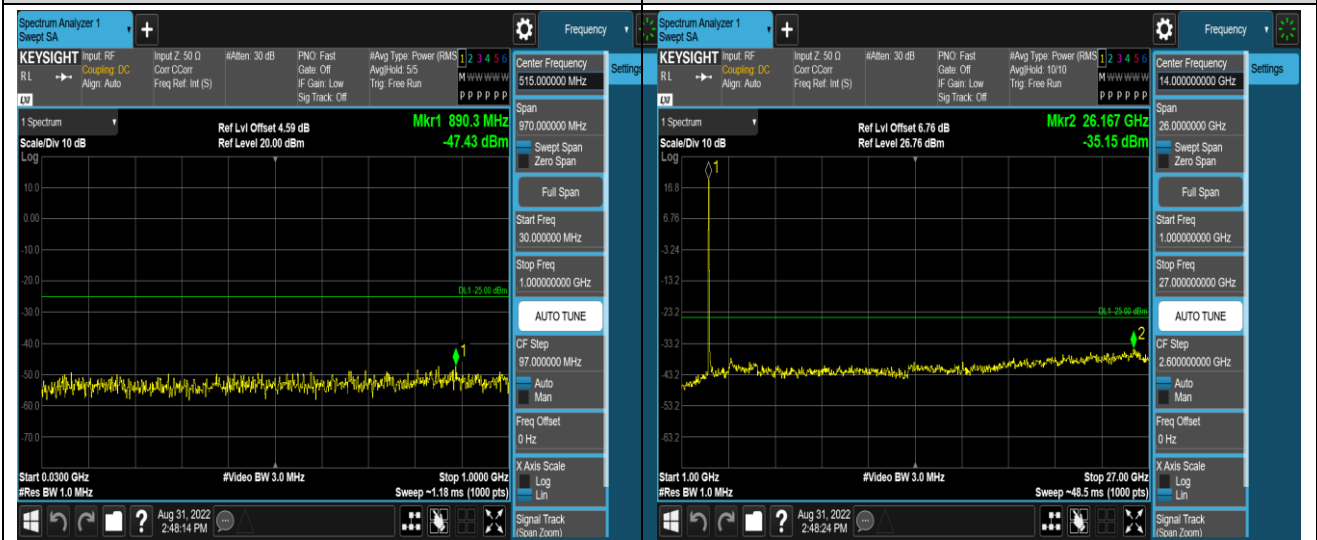
Band41-20MHz-QPSK-41490-100RB#0-Range1:3
0~1000MHz

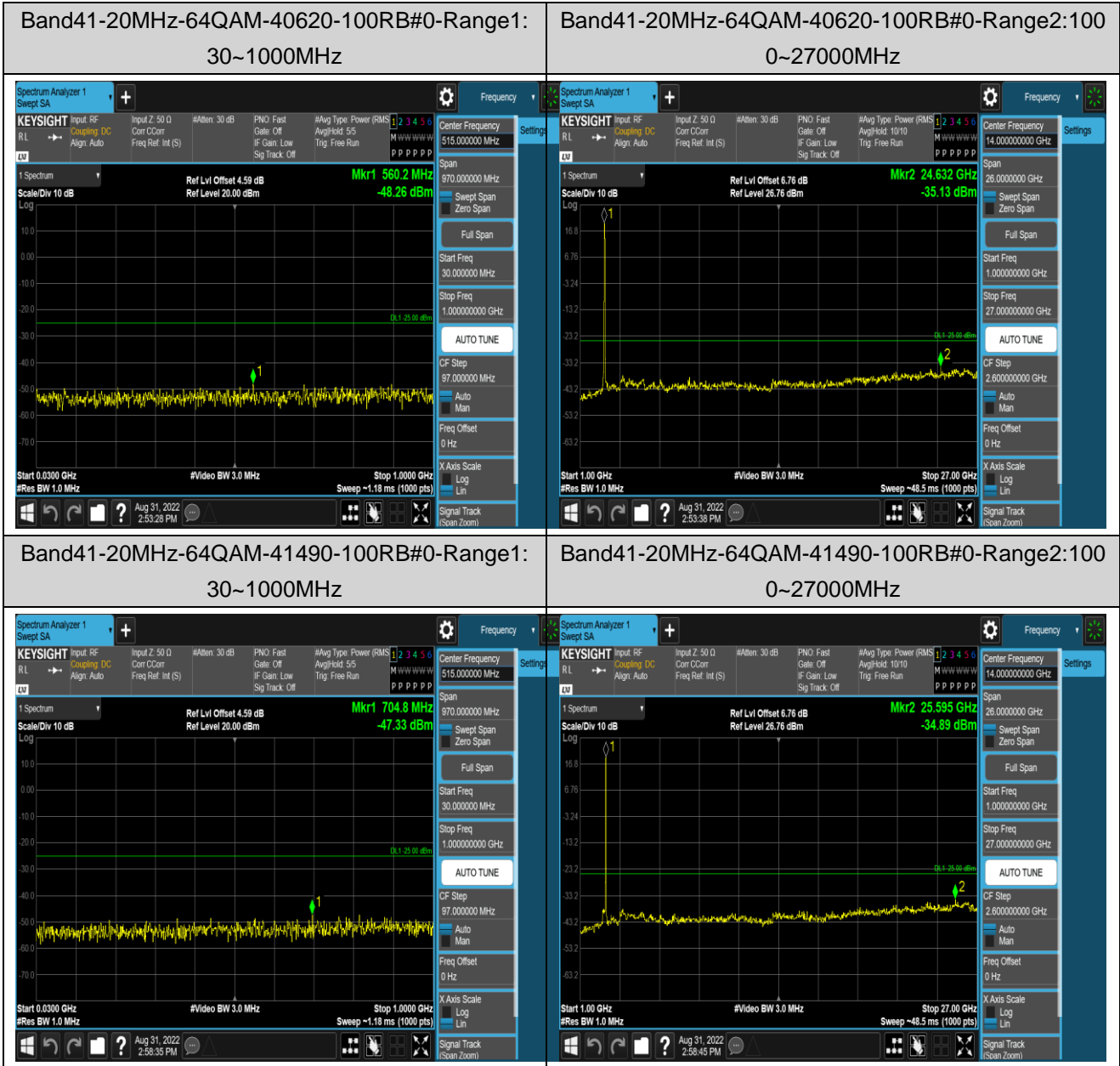
Band41-20MHz-QPSK-41490-100RB#0-Range2:1000
~27000MHz



Band41-20MHz-64QAM-39750-100RB#0-Range1:1
30~1000MHz

Band41-20MHz-64QAM-39750-100RB#0-Range2:100
0~27000MHz





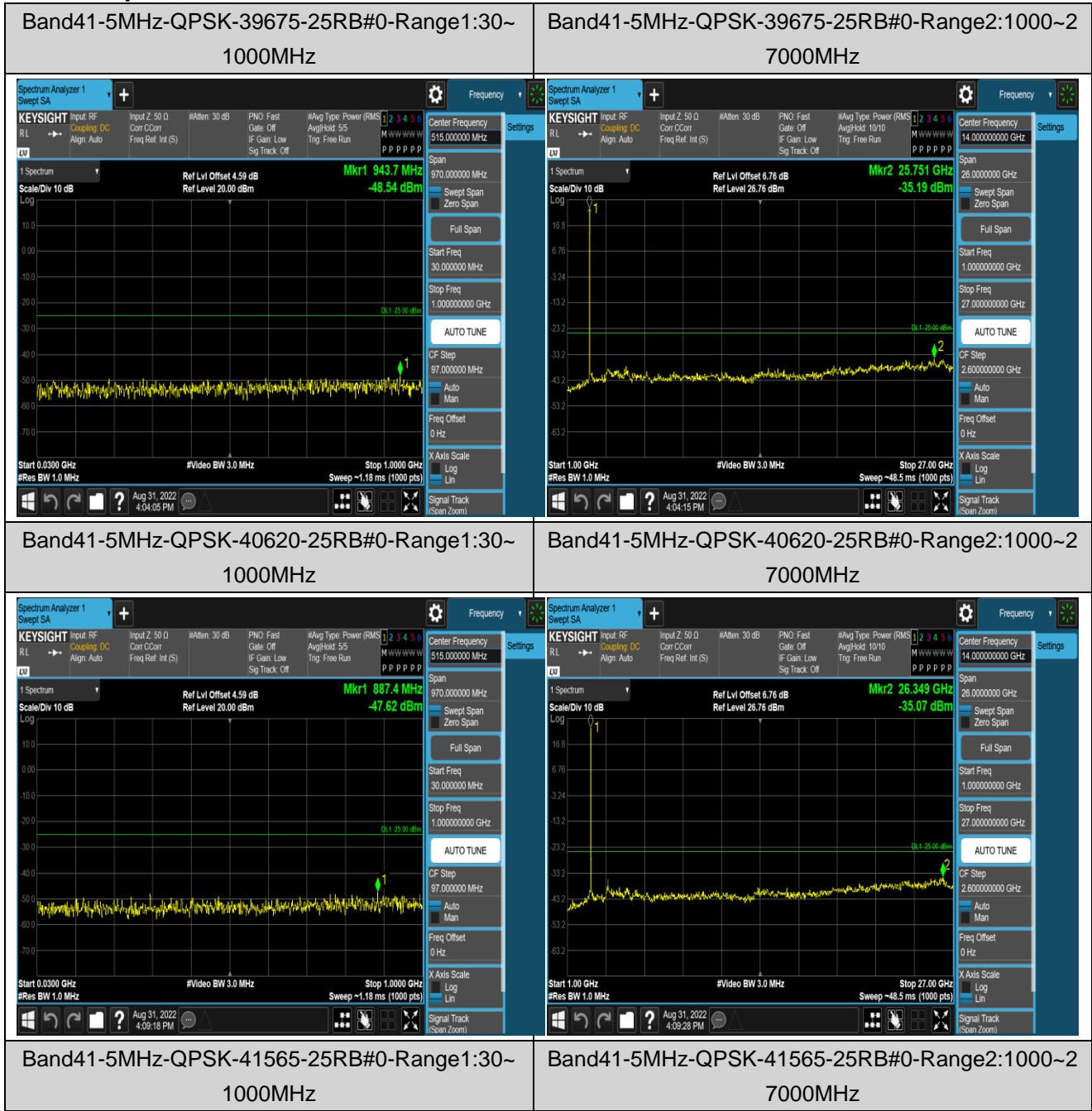
Appendix E: Conducted Spurious Emission For ANT3

Test Result (worst case)

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	Range1:30~1000MHz	-48.54	PASS
Band41	5MHz	QPSK	39675	25RB#0	Range2:1000~27000MHz	-35.19	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range1:30~1000MHz	-47.62	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range2:1000~27000MHz	-35.07	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range1:30~1000MHz	-48.24	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range2:1000~27000MHz	-35.02	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range1:30~1000MHz	-47.01	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range2:1000~27000MHz	-35.38	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range1:30~1000MHz	-47.11	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range2:1000~27000MHz	-35.18	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range1:30~1000MHz	-49.09	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range2:1000~27000MHz	-35.12	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range1:30~1000MHz	-47.46	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range2:1000~27000MHz	-35.66	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range1:30~1000MHz	-48.55	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range2:1000~27000MHz	-35.09	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range1:30~1000MHz	-48.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range2:1000~27000MHz	-35.48	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range1:30~1000MHz	-47.49	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range2:1000~27000MHz	-34.94	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range1:30~1000MHz	-47.43	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range2:1000~27000MHz	-34.8	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range1:30~1000MHz	-47.84	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range2:1000~27000MHz	-35.56	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs





Band41-5MHz-64QAM-39675-25RB#0-Range1:30~1000MHz

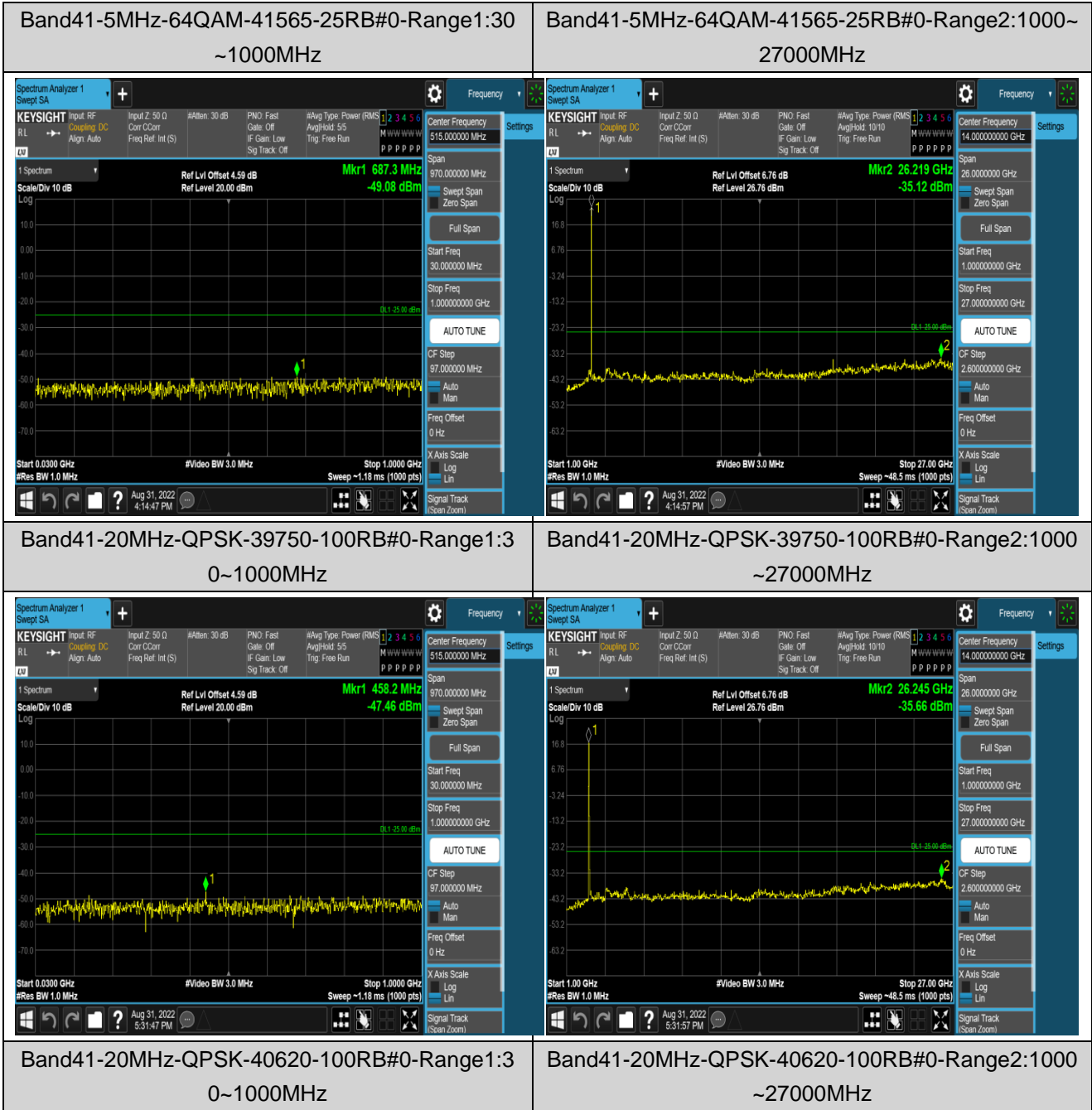
Band41-5MHz-64QAM-39675-25RB#0-Range2:1000~27000MHz



Band41-5MHz-64QAM-40620-25RB#0-Range1:30~1000MHz

Band41-5MHz-64QAM-40620-25RB#0-Range2:1000~27000MHz

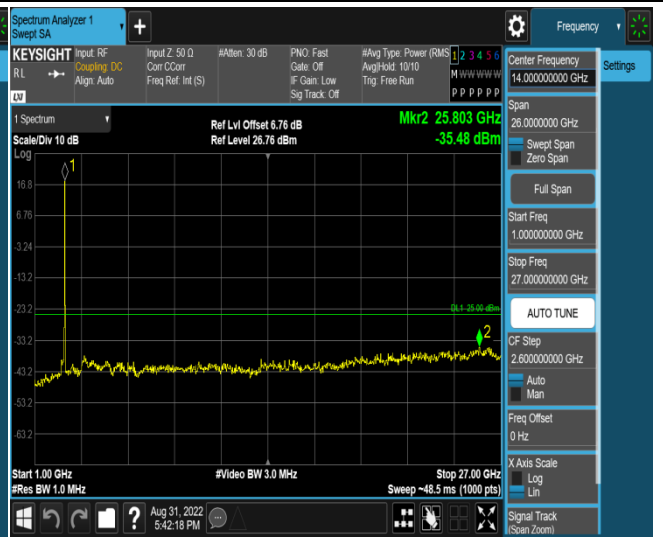
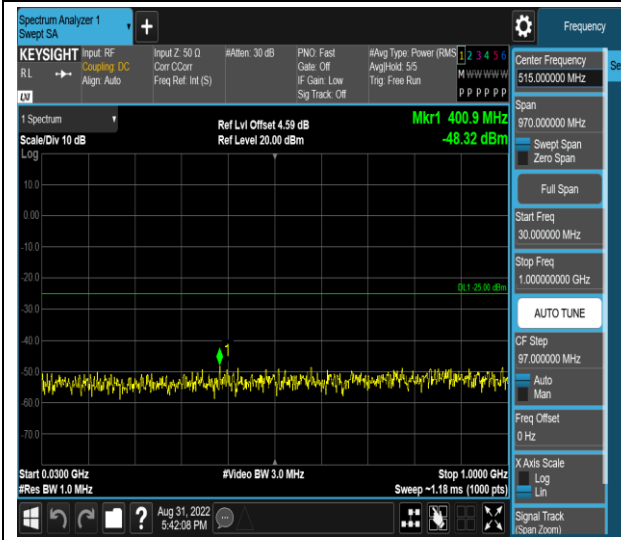






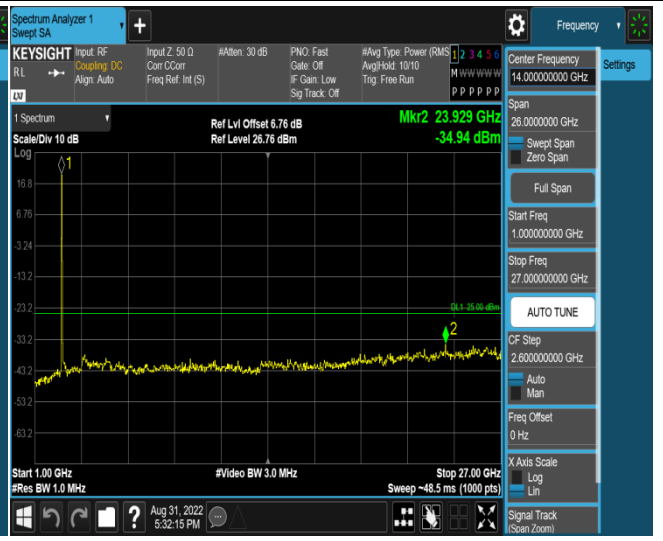
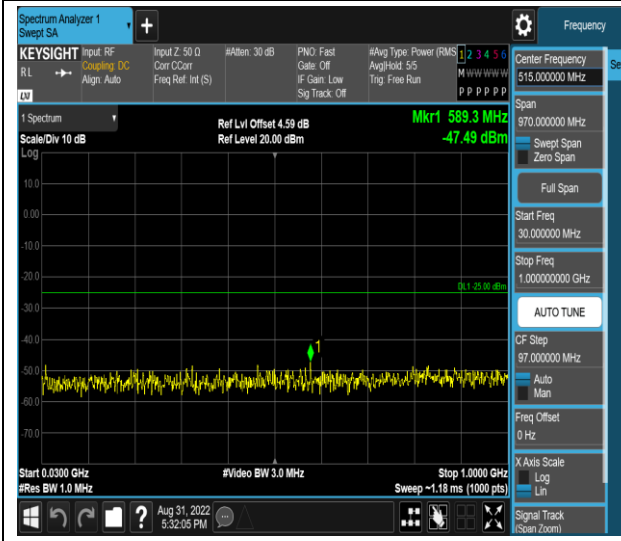
Band41-20MHz-QPSK-41490-100RB#0-Range1:3
0~1000MHz

Band41-20MHz-QPSK-41490-100RB#0-Range2:1000
~27000MHz

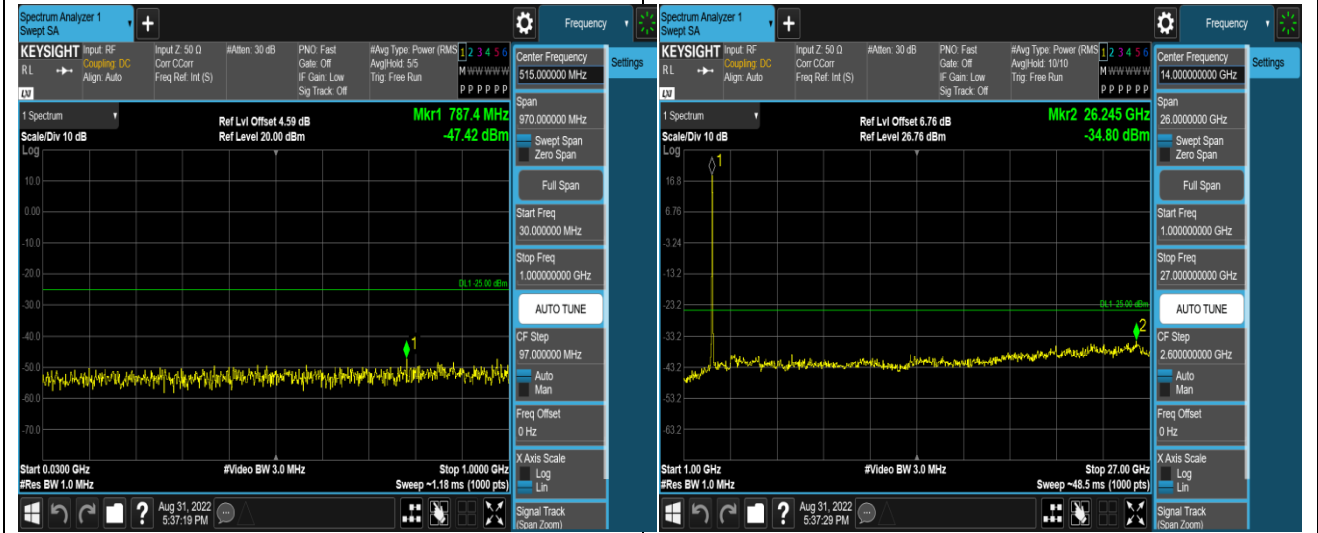


Band41-20MHz-64QAM-39750-100RB#0-Range1:1
30~1000MHz

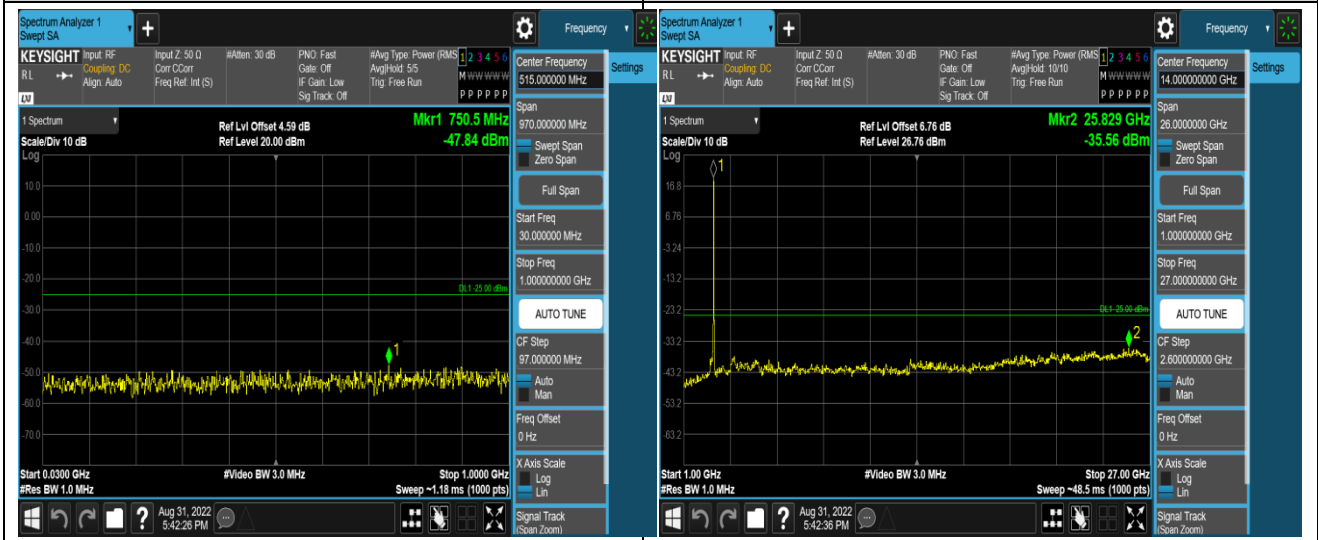
Band41-20MHz-64QAM-39750-100RB#0-Range2:100
0~27000MHz



Band41-20MHz-64QAM-40620-100RB#0-Range1: 30~1000MHz	Band41-20MHz-64QAM-40620-100RB#0-Range2:100 0~27000MHz
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Band41-20MHz-64QAM-41490-100RB#0-Range1: 30~1000MHz	Band41-20MHz-64QAM-41490-100RB#0-Range2:100 0~27000MHz
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Appendix F: Frequency Stability For ANT1

Test Result

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40620 Frequency=2595.0MHz					
Temperature					
Power supplied (Vac)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
120	-10	-12.37	-0.004771	Within authorized band for Band 41	Pass
	0	21.13	0.008149		
	10	-19.41	-0.007486		
	20	-9.31	-0.003590		
	30	14.28	0.005507		
	40	-19.01	-0.007331		
	45	-21.17	-0.008164		
64QAM					
120	-10	-7.41	-0.002858	Within authorized band for Band 41	Pass
	0	-20.14	-0.007767		
	10	-14.82	-0.005715		
	20	19.97	0.007702		
	30	-18.88	-0.007281		
	40	-16.78	-0.006471		
	45	-6.58	-0.002538		
Voltage					
Temperature (°C)	Power supplied (Vac)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	102	-16.65	-0.006421	Within authorized band for Band 41	Pass
	120	-20.53	-0.007917		
	138	-16.58	-0.006394		
64QAM					
25	102	-24.55	-0.009468	Within authorized band for Band41	Pass
	120	-9.74	-0.003756		
	138	-18.84	-0.007266		

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Appendix F: Frequency Stability For ANT3

Test Result

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40620 Frequency=2593.0MHz					
Temperature					
Power supplied (Vac)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
120	-10	-24.55	-0.009468	Within authorized band for Band 41	Pass
	0	-22.24	-0.008577		
	10	-11.00	-0.004242		
	20	-13.38	-0.005160		
	30	-32.00	-0.012341		
	40	-10.79	-0.004161		
	45	-19.21	-0.007408		
64QAM					
120	-10	-18.27	-0.007046	Within authorized band for Band 41	Pass
	0	-17.57	-0.006776		
	10	-11.79	-0.004547		
	20	-21.86	-0.008430		
	30	-12.70	-0.004898		
	40	-16.49	-0.006359		
	45	-8.64	-0.003332		
Voltage					
Temperature (°C)	Power supplied (Vac)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	102	-25.68	-0.009904	Within authorized band for Band 41	Pass
	120	-7.04	-0.002715		
	138	-22.79	-0.008789		
64QAM					
25	102	-8.65	-0.003336	Within authorized band for Band41	Pass
	120	-8.25	-0.003182		
	138	20.00	0.007713		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					