Appendix B – 4G Out of band emission, Band Edge

Test Information:

Sample No.:	306X-1	Test Date:	2025/04/10~2025/06/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Lin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.3-25.5	Relative Humidity: (%)	33-55	ATM Pressure: (kPa)	100.2-100.7

Out of band emission, Band Edge

FCC Part 22H

LTE Band 5, Normal

1.4MHz_Low_QPSK_1@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
812.600 MHz	823.000 MHz	100.000 kHz	822.84140 MHz	-40.48 dBm	-27.48 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99925 MHz	-16.78 dBm	-3.78 dB
824.000 MHz	825.400 MHz	100.000 kHz	824.23975 MHz	21.80 dBm	-28.20 dB
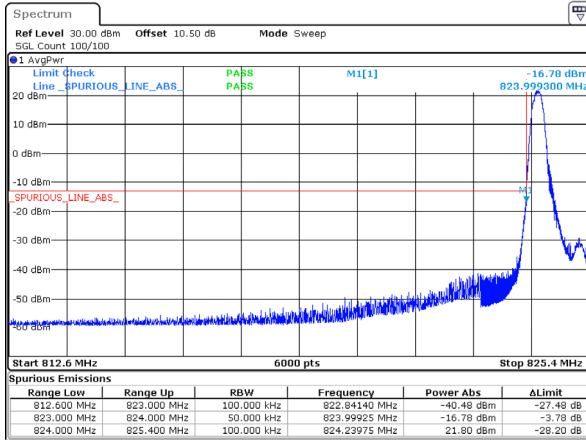
ProjectNo.:2501P42038E-RF Tester:Leo Lin
Date: 10.APR.2025 13:54:42

1.4MHz_Low_QPSK_6@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
812.600 MHz	823.000 MHz	100.000 kHz	822.98700 MHz	-37.97 dBm	-24.97 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99925 MHz	-24.99 dBm	-11.99 dB
824.000 MHz	825.400 MHz	100.000 kHz	824.58205 MHz	14.17 dBm	-35.83 dB
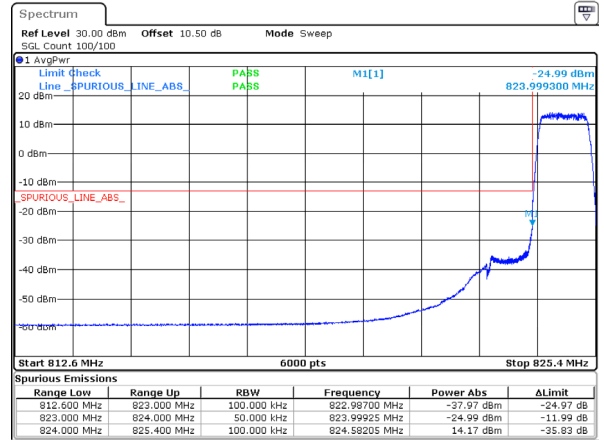
ProjectNo.:2501P42038E-RF Tester:Leo Lin
Date: 10.APR.2025 13:55:21

1.4MHz_Low_16QAM_1@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
812.600 MHz	823.000 MHz	100.000 kHz	822.99220 MHz	-46.58 dBm	-33.59 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99875 MHz	-17.42 dBm	-4.42 dB
824.000 MHz	825.400 MHz	100.000 kHz	824.25865 MHz	21.39 dBm	-28.61 dB
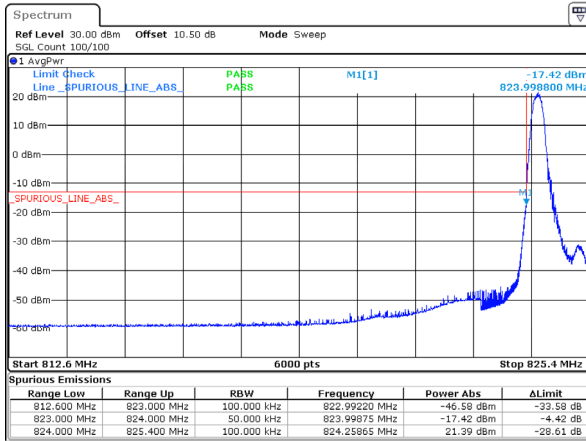
ProjectNo.:2501P42038E-RF Tester:Leo Lin
Date: 10.APR.2025 13:56:00

1.4MHz_Low_16QAM_6@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
812.600 MHz	823.000 MHz	100.000 kHz	822.95060 MHz	-38.85 dBm	-25.85 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.98875 MHz	-26.14 dBm	-13.14 dB
824.000 MHz	825.400 MHz	100.000 kHz	824.31605 MHz	13.40 dBm	-36.60 dB
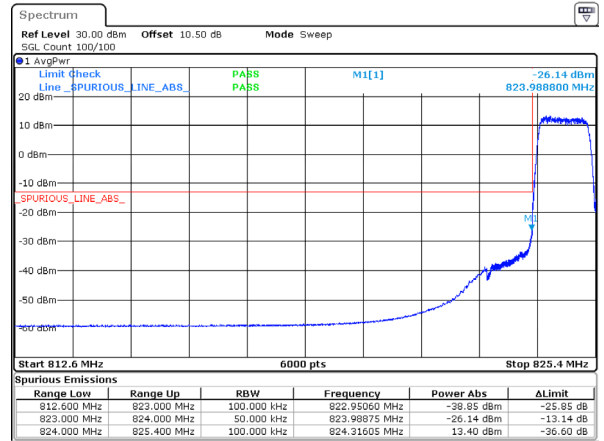
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Date: 10.APR.2025 13:56:39

1.4MHz_High_QPSK_1@5

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.600 MHz	849.000 MHz	100.000 kHz	848.74485 MHz	21.93 dBm	-28.07 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00125 MHz	-15.02 dBm	-2.02 dB
850.000 MHz	860.400 MHz	100.000 kHz	850.00780 MHz	-49.43 dBm	-36.43 dB
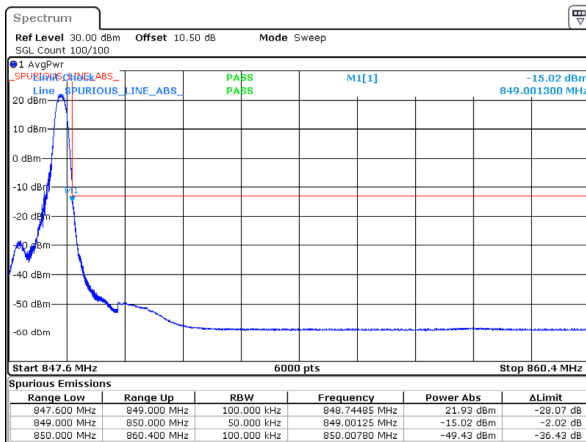
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Date: 10.APR.2025 13:57:19

1.4MHz_High_QPSK_6@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.600 MHz	849.000 MHz	100.000 kHz	847.90205 MHz	14.38 dBm	-35.62 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00225 MHz	-21.47 dBm	-8.47 dB
850.000 MHz	860.400 MHz	100.000 kHz	850.00260 MHz	-39.35 dBm	-26.35 dB
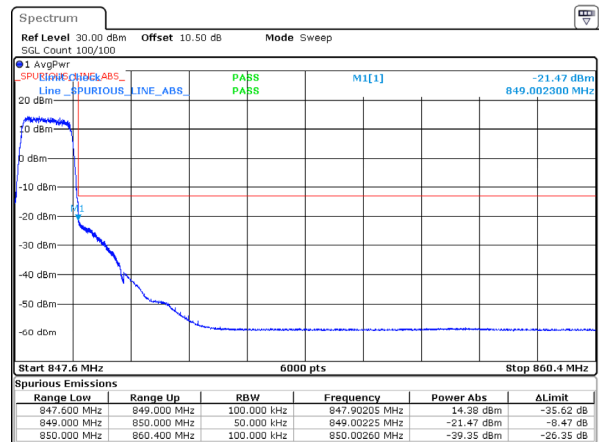
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Date: 10.APR.2025 13:57:58

1.4MHz_High_16QAM_1@5

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.600 MHz	849.000 MHz	100.000 kHz	848.73925 MHz	21.05 dBm	-28.95 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00175 MHz	-17.51 dBm	-4.51 dB
850.000 MHz	860.400 MHz	100.000 kHz	850.01820 MHz	-49.07 dBm	-36.07 dB
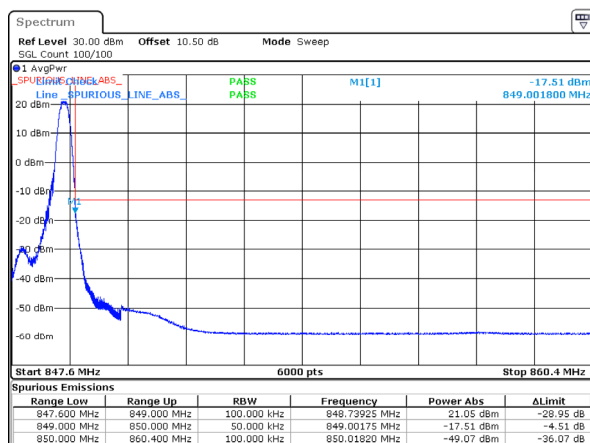
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1.4MHz_High_16QAM_6@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
847.600 MHz	849.000 MHz	100.000 kHz	847.88455 MHz	13.21 dBm	-36.79 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00425 MHz	-23.12 dBm	-10.12 dB
850.000 MHz	860.400 MHz	100.000 kHz	850.00780 MHz	-41.39 dBm	-28.39 dB
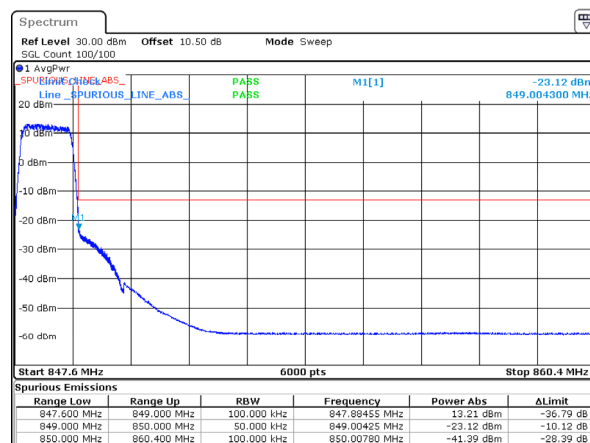
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Date: 10.APR.2025 13:59:16

3MHz_Low_QPSK_1@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
811.000 MHz	823.000 MHz	100.000 kHz	822.97300 MHz	-27.29 dBm	-14.29 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99725 MHz	-16.36 dBm	-3.36 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.26175 MHz	21.61 dBm	-28.39 dB
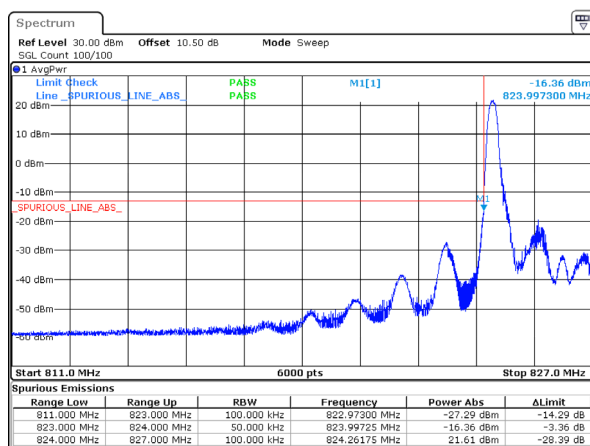
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Date: 10.APR.2025 14:00:51

3MHz_Low_QPSK_15@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
811.000 MHz	823.000 MHz	100.000 kHz	822.97300 MHz	-34.61 dBm	-21.61 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99475 MHz	-28.81 dBm	-15.81 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.55425 MHz	10.35 dBm	-39.65 dB
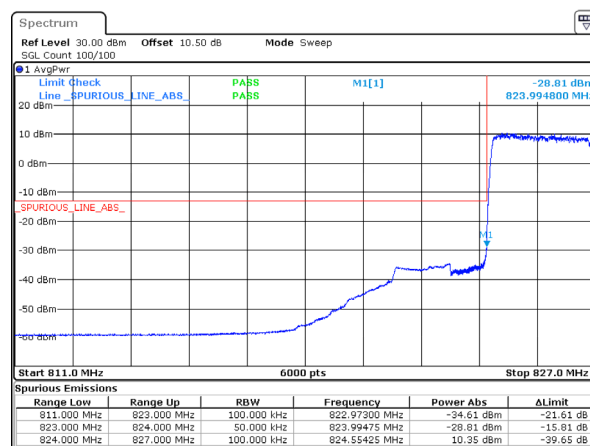
ProjectNo.:2501P42038E-RF Tester:Leo Lin
Date: 10.APR.2025 14:01:34

3MHz_Low_16QAM_1@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
811.000 MHz	823.000 MHz	100.000 kHz	822.96100 MHz	-27.24 dBm	-14.24 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99775 MHz	-17.54 dBm	-4.54 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.27375 MHz	21.02 dBm	-28.98 dB
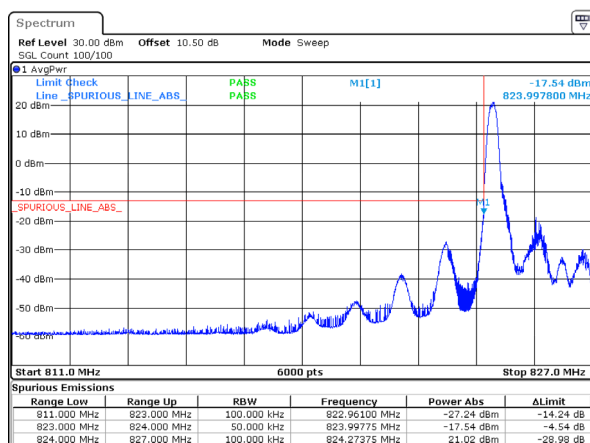
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Date: 10.APR.2025 14:02:17

3MHz_Low_16QAM_15@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
811.000 MHz	823.000 MHz	100.000 kHz	822.88300 MHz	-34.98 dBm	-21.98 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99925 MHz	-29.56 dBm	-16.56 dB
824.000 MHz	827.000 MHz	100.000 kHz	825.56375 MHz	9.69 dBm	-40.31 dB
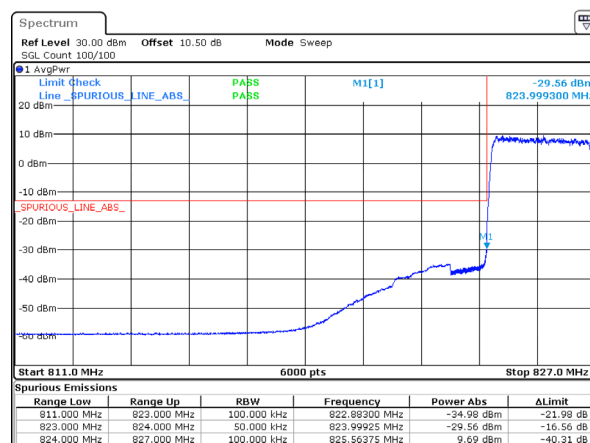
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Date: 10.APR.2025 14:03:02

3MHz_High_QPSK_1@14

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	848.74125 MHz	21.80 dBm	-28.20 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00525 MHz	-15.07 dBm	-2.07 dB
850.000 MHz	862.000 MHz	100.000 kHz	850.02100 MHz	-33.80 dBm	-20.80 dB
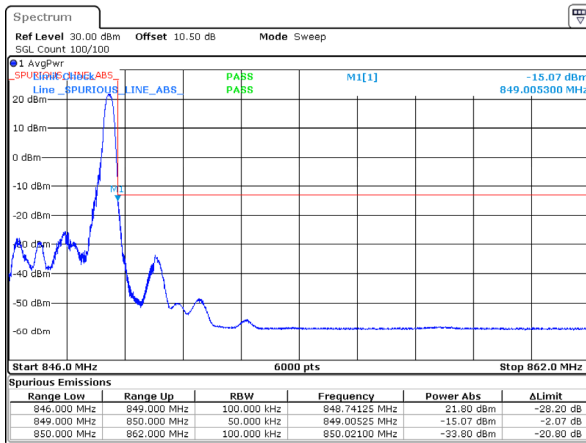
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Date: 10.APR.2025 14:03:45

3MHz_High_QPSK_15@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	847.98975 MHz	9.80 dBm	-40.20 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00175 MHz	-25.57 dBm	-12.57 dB
850.000 MHz	862.000 MHz	100.000 kHz	850.04500 MHz	-28.24 dBm	-15.24 dB
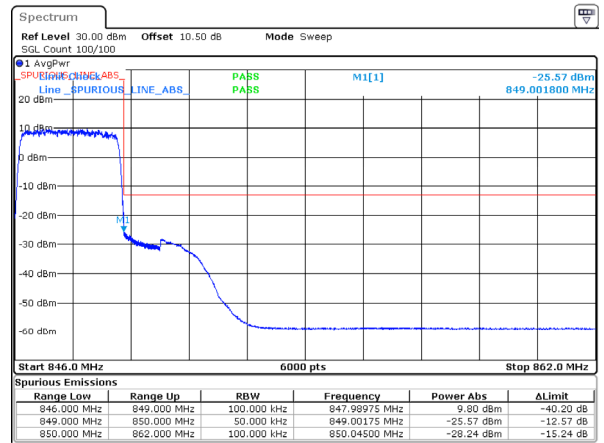
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Date: 10.APR.2025 14:04:27

3MHz_High_16QAM_1@14

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	848.77125 MHz	21.31 dBm	-28.69 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00025 MHz	-16.62 dBm	-3.62 dB
850.000 MHz	862.000 MHz	100.000 kHz	850.01500 MHz	-29.43 dBm	-16.43 dB
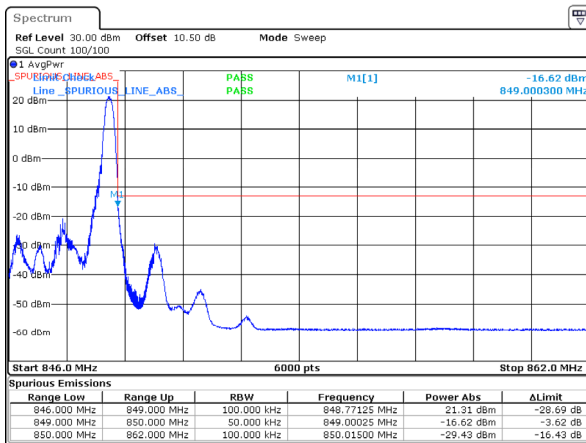
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Date: 10.APR.2025 14:05:23

3MHz_High_16QAM_15@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
846.000 MHz	849.000 MHz	100.000 kHz	847.43475 MHz	9.66 dBm	-40.34 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00225 MHz	-27.74 dBm	-14.74 dB
850.000 MHz	862.000 MHz	100.000 kHz	850.06300 MHz	-30.61 dBm	-17.61 dB
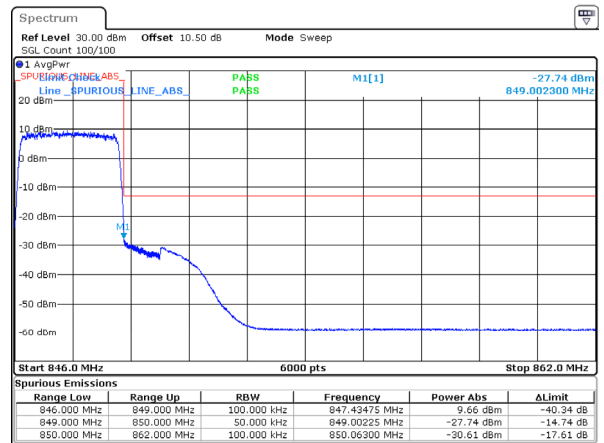
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Date: 10.APR.2025 14:06:06

5MHz_Low_QPSK_1@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	823.000 MHz	100.000 kHz	822.14950 MHz	-43.48 dBm	-30.48 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99725 MHz	-13.72 dBm	-0.72 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.35625 MHz	21.67 dBm	-28.33 dB
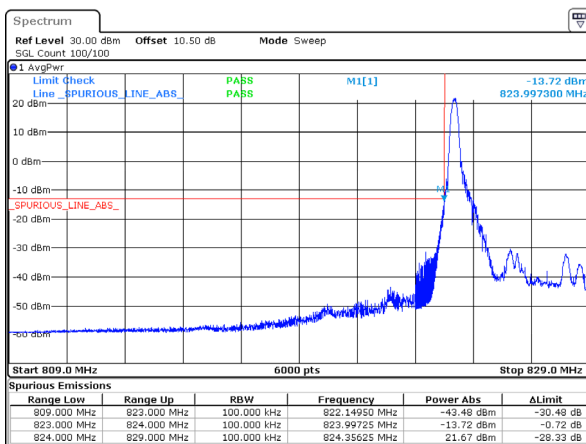
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Date: 10.APR.2025 14:07:53

5MHz_Low_QPSK_25@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	823.000 MHz	100.000 kHz	822.96850 MHz	-34.56 dBm	-21.56 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.98775 MHz	-25.91 dBm	-12.91 dB
824.000 MHz	829.000 MHz	100.000 kHz	825.39625 MHz	8.12 dBm	-41.88 dB
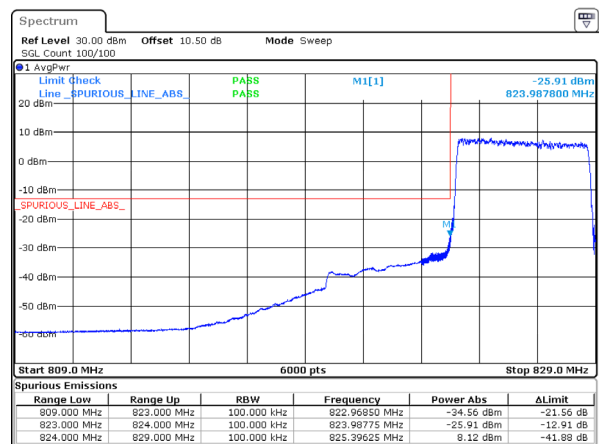
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Date: 10.APR.2025 14:08:34

5MHz_Low_16QAM_1@0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	823.000 MHz	100.000 kHz	822.16350 MHz	-48.57 dBm	-35.57 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99175 MHz	-15.24 dBm	-2.24 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.33875 MHz	20.66 dBm	-29.34 dB
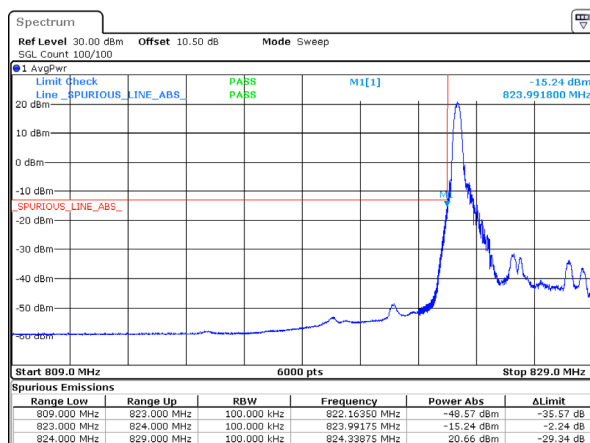
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Date: 10.APR.2025 14:13:11

5MHz_Low_16QAM_25@0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
809.000 MHz	823.000 MHz	100.000 kHz	822.94750 MHz	-34.71 dBm	-21.71 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99625 MHz	-26.83 dBm	-13.83 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.40625 MHz	7.06 dBm	-42.94 dB
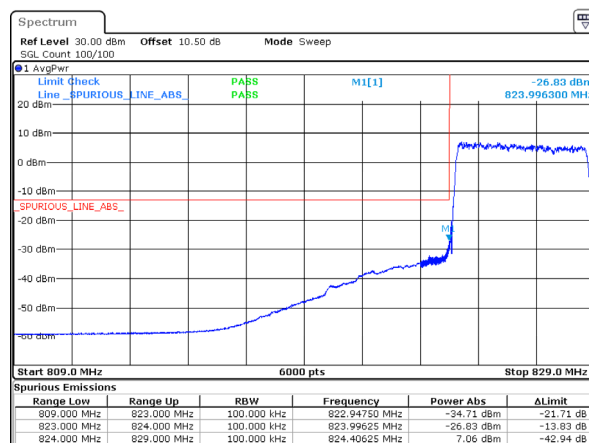
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Date: 10.APR.2025 14:14:32

5MHz_High_QPSK_1@24

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	848.65875 MHz	21.38 dBm	-28.62 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00525 MHz	-14.78 dBm	-1.78 dB
850.000 MHz	864.000 MHz	100.000 kHz	850.17850 MHz	-46.69 dBm	-33.69 dB
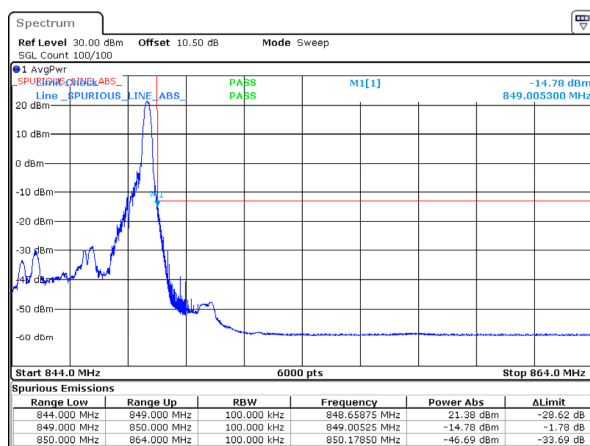
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Date: 10.APR.2025 14:15:31

5MHz_High_QPSK_25@0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	846.85375 MHz	7.37 dBm	-42.63 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00875 MHz	-26.98 dBm	-13.98 dB
850.000 MHz	864.000 MHz	100.000 kHz	850.05250 MHz	-34.21 dBm	-21.21 dB
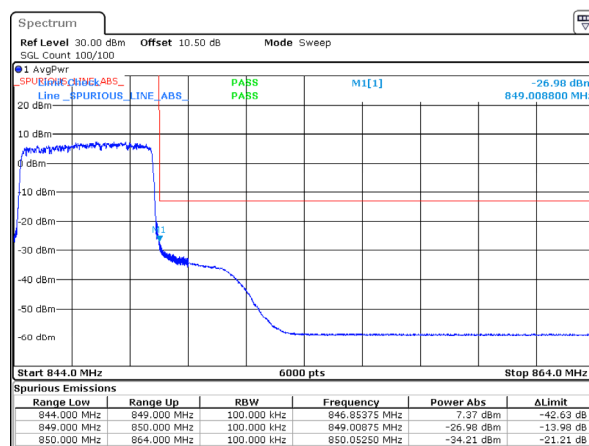
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5MHz_High_16QAM_1@24

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	848.67125 MHz	20.14 dBm	-29.86 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00225 MHz	-14.32 dBm	-1.32 dB
850.000 MHz	864.000 MHz	100.000 kHz	850.84350 MHz	-47.58 dBm	-34.58 dB
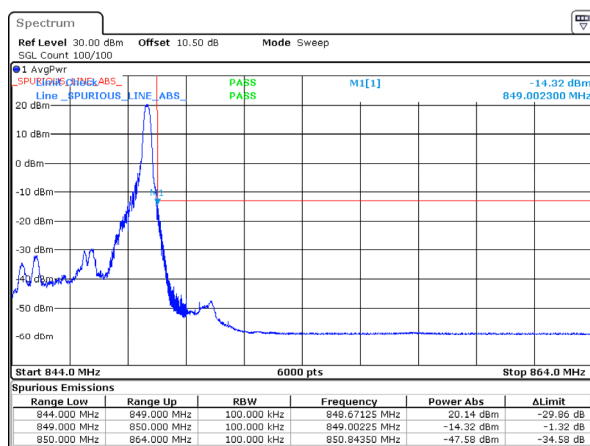
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5MHz_High_16QAM_25@0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	847.12125 MHz	7.41 dBm	-42.59 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00925 MHz	-27.68 dBm	-14.68 dB
850.000 MHz	864.000 MHz	100.000 kHz	850.01750 MHz	-35.08 dBm	-22.08 dB
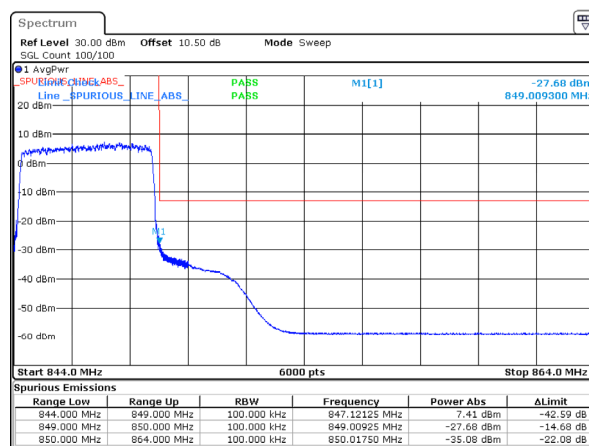
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Date: 10.APR.2025 14:18:11

10MHz_Low_QPSK_1@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
804.000 MHz	823.000 MHz	100.000 kHz	820.17375 MHz	-43.88 dBm	-30.88 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99225 MHz	-21.20 dBm	-8.20 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.58250 MHz	20.87 dBm	-29.13 dB
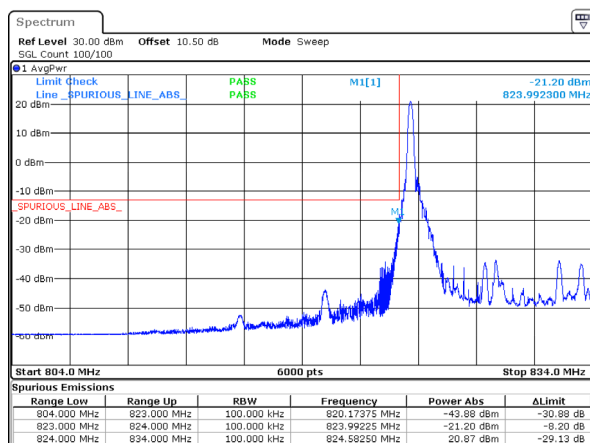
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Date: 10.APR.2025 14:19:33

10MHz_Low_QPSK_50@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
804.000 MHz	823.000 MHz	100.000 kHz	822.97625 MHz	-36.73 dBm	-23.73 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99575 MHz	-31.44 dBm	-18.44 dB
824.000 MHz	834.000 MHz	100.000 kHz	825.49750 MHz	5.12 dBm	-44.88 dB
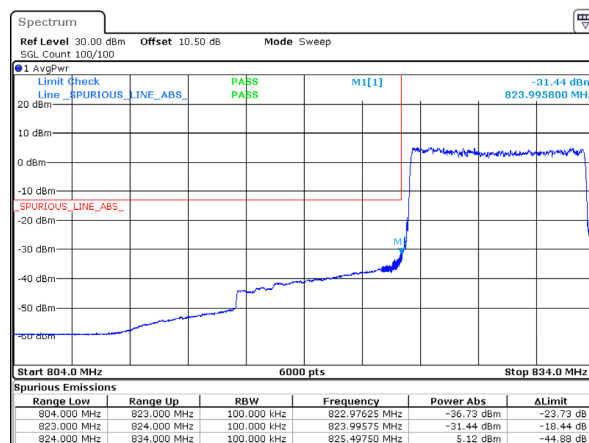
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Date: 10.APR.2025 14:20:38

10MHz_Low_16QAM_1@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
804.000 MHz	823.000 MHz	100.000 kHz	820.20225 MHz	-43.23 dBm	-30.23 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99975 MHz	-20.57 dBm	-7.57 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.62750 MHz	21.22 dBm	-28.78 dB
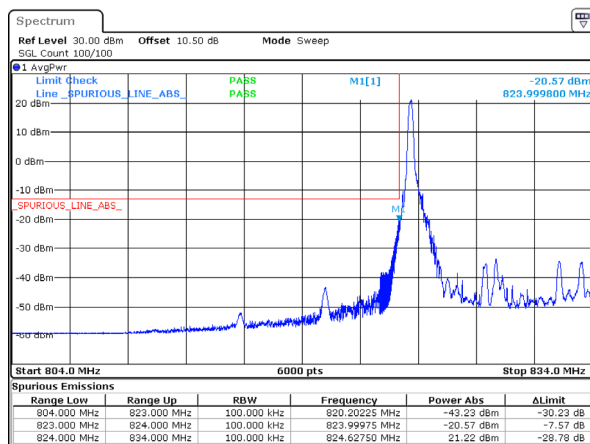
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Date: 10.APR.2025 14:21:41

10MHz_Low_16QAM_50@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
804.000 MHz	823.000 MHz	100.000 kHz	822.97625 MHz	-37.02 dBm	-24.02 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.98725 MHz	-32.78 dBm	-19.78 dB
824.000 MHz	834.000 MHz	100.000 kHz	825.95250 MHz	4.37 dBm	-45.63 dB
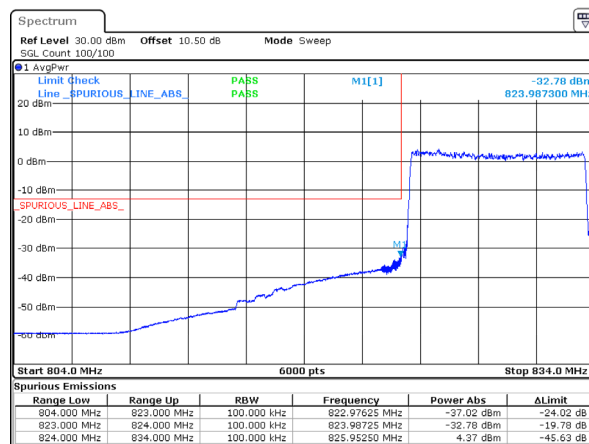
ProjectNo.:2501P42038E-RF Tester:Leo Lin
Date: 10.APR.2025 14:23:03

10MHz_High_QPSK_1@49

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.42750 MHz	20.79 dBm	-29.21 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.01075 MHz	-21.26 dBm	-8.26 dB
850.000 MHz	869.000 MHz	100.000 kHz	850.34675 MHz	-52.06 dBm	-39.06 dB
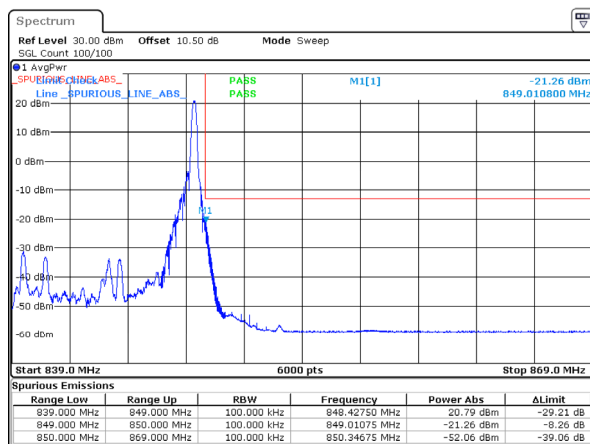
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Date: 10.APR.2025 14:24:26

10MHz_High_QPSK_50@0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	847.83250 MHz	5.39 dBm	-44.61 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00975 MHz	-30.42 dBm	-17.42 dB
850.000 MHz	869.000 MHz	100.000 kHz	850.00475 MHz	-33.88 dBm	-20.88 dB

ProjectNo.:2501P42038E-RF Tester:Leo Lin
Date: 10.APR.2025 14:25:32

10MHz_High_16QAM_1@49

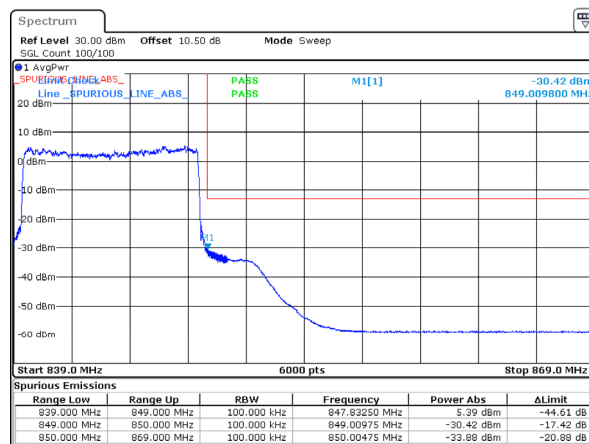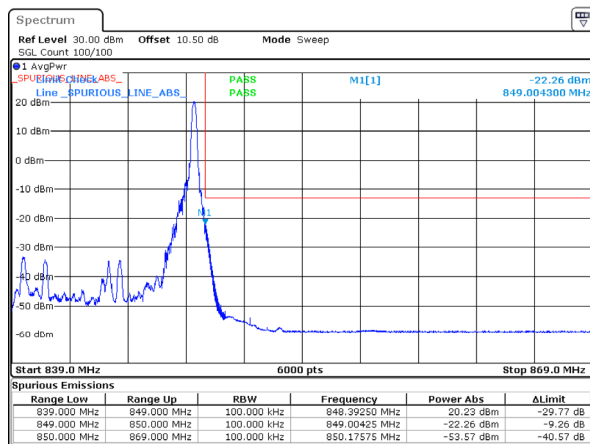ProjectNo.:2501P42038E-RF Tester:Leo Lin
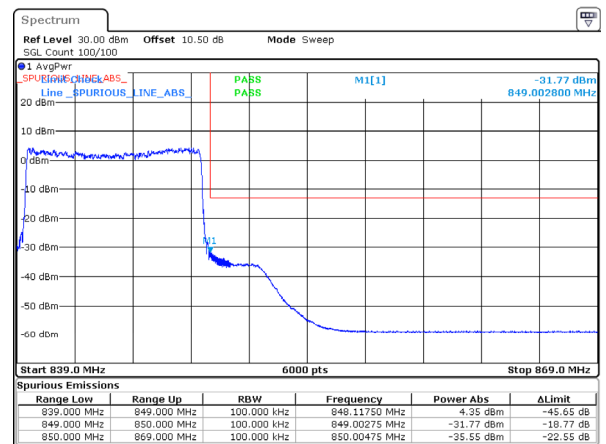Date: 10.APR.2025 14:26:42

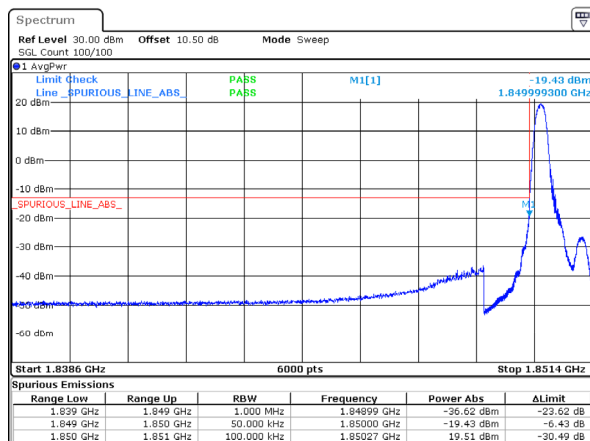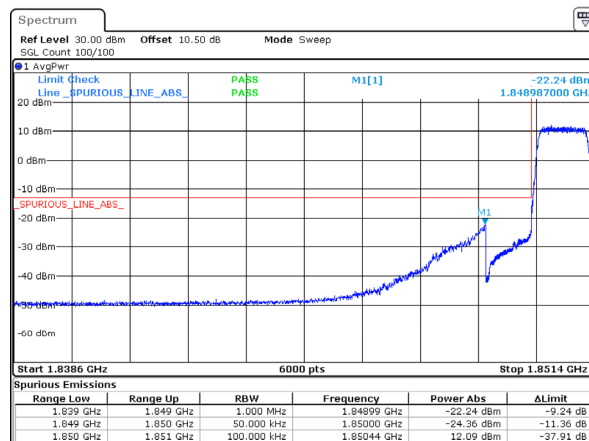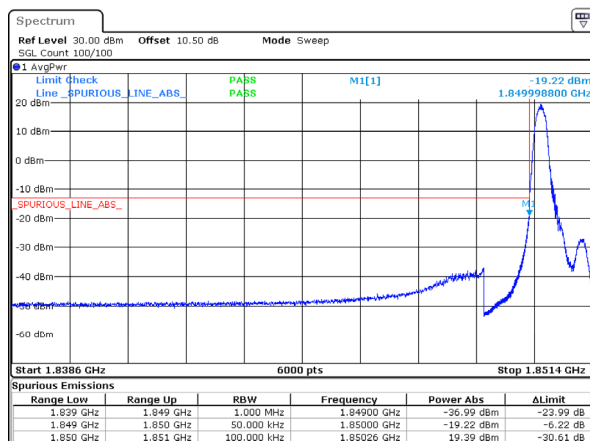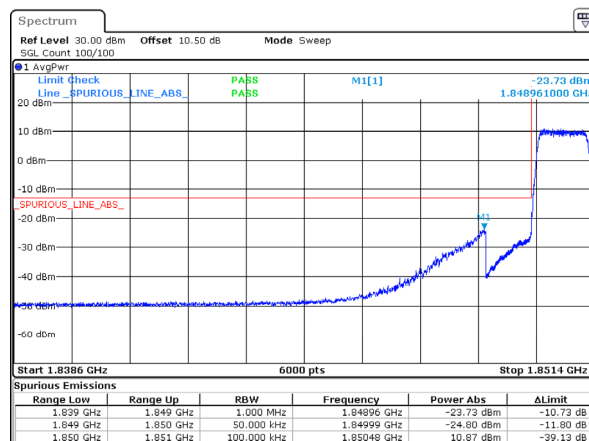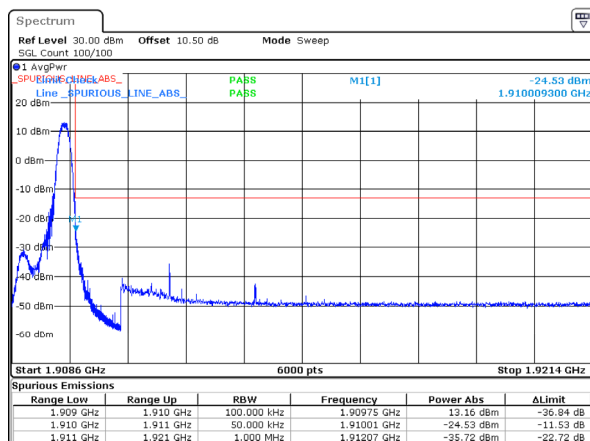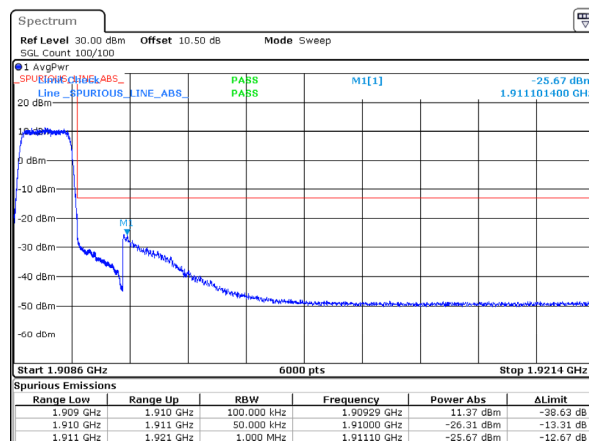| Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.39250 MHz	20.23 dBm	-29.77 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00425 MHz	-22.26 dBm	-9.26 dB
850.000 MHz	869.000 MHz	100.000 kHz	850.17575 MHz	-53.57 dBm	-40.57 dB

10MHz_High_16QAM_50@0

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Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.11750 MHz	4.35 dBm	-45.65 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00275 MHz	-31.77 dBm	-18.77 dB
850.000 MHz	869.000 MHz	100.000 kHz	850.00475 MHz	-35.55 dBm	-22.55 dB

FCC Part 24E

LTE Band 2, Normal

1.4MHz_Low_QPSK_1@0

Range Low	Range Up	RBW	Frequency GHz	Power Abs	ΔLimit
1.839 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-36.62 dBm	-23.62 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-19.43 dBm	-6.43 dB
1.850 GHz	1.851 GHz	100.000 kHz	1.85027 GHz	19.51 dBm	-30.49 dB

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1.4MHz_Low_QPSK_6@0

Range Low	Range Up	RBW	Frequency GHz	Power Abs	ΔLimit
1.839 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-22.24 dBm	-9.24 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-24.36 dBm	-11.36 dB
1.850 GHz	1.851 GHz	100.000 kHz	1.85044 GHz	12.09 dBm	-37.91 dB

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1.4MHz_Low_16QAM_1@0

Range Low	Range Up	RBW	Frequency GHz	Power Abs	ΔLimit
1.839 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-36.99 dBm	-23.99 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-19.22 dBm	-6.22 dB
1.850 GHz	1.851 GHz	100.000 kHz	1.85026 GHz	19.39 dBm	-30.61 dB

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1.4MHz_Low_16QAM_6@0

Range Low	Range Up	RBW	Frequency GHz	Power Abs	ΔLimit
1.839 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-23.73 dBm	-10.73 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84999 GHz	-24.80 dBm	-11.80 dB
1.850 GHz	1.851 GHz	100.000 kHz	1.85048 GHz	10.87 dBm	-39.13 dB

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1.4MHz_High_QPSK_1@5

Range Low	Range Up	RBW	Frequency GHz	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	100.000 kHz	1.90975 GHz	13.16 dBm	-36.84 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91001 GHz	-24.53 dBm	-11.53 dB
1.911 GHz	1.921 GHz	1.000 MHz	1.91207 GHz	-35.72 dBm	-22.72 dB

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1.4MHz_High_QPSK_6@0

Range Low	Range Up	RBW	Frequency GHz	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	100.000 kHz	1.90929 GHz	11.37 dBm	-38.63 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-26.31 dBm	-13.31 dB
1.911 GHz	1.921 GHz	1.000 MHz	1.91110 GHz	-25.67 dBm	-12.67 dB

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1.4MHz_High_16QAM_1@5

1.4MHz_High_16QAM_6@0

3MHz_Low_QPSK_1@0

3MHz_Low_QPSK_15@0

3MHz_Low_16QAM_1@0

3MHz_Low_16QAM_15@0