

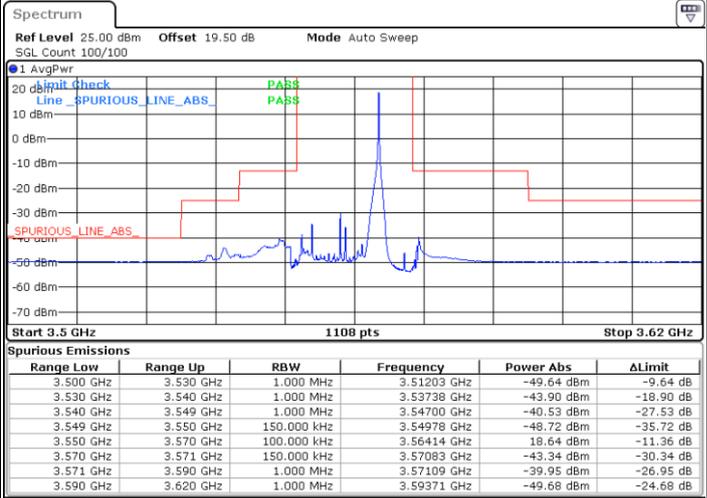
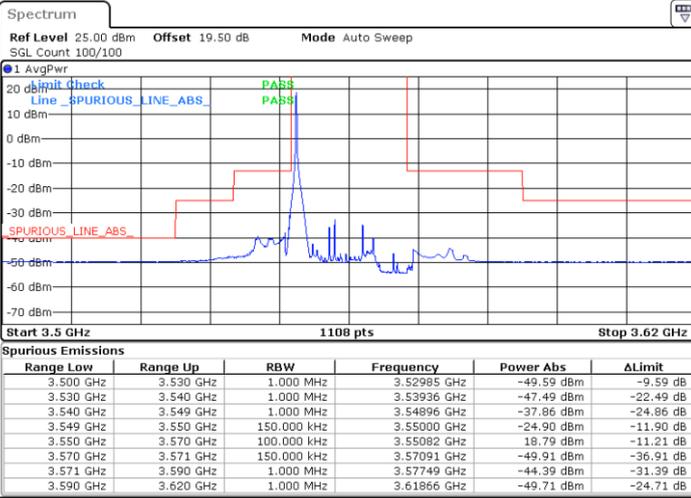


LTE Band 48 / 15MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

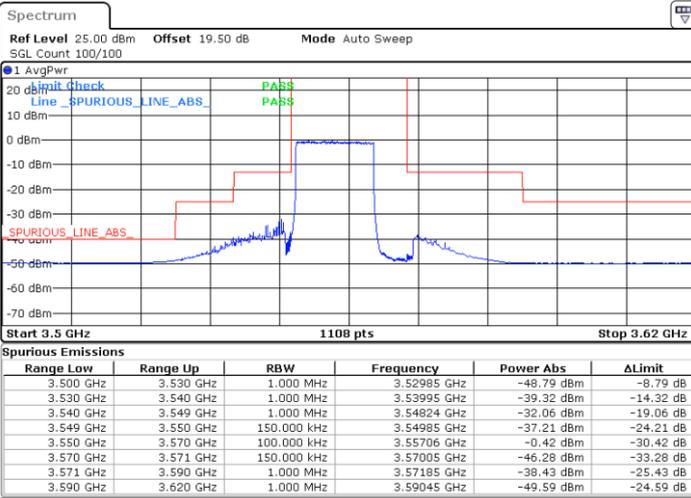


Date: 3 JUL 2025 03:15:27

Date: 3 JUL 2025 03:23:12

Lowest Channel / FullRB

N/A



Date: 3 JUL 2025 03:24:32

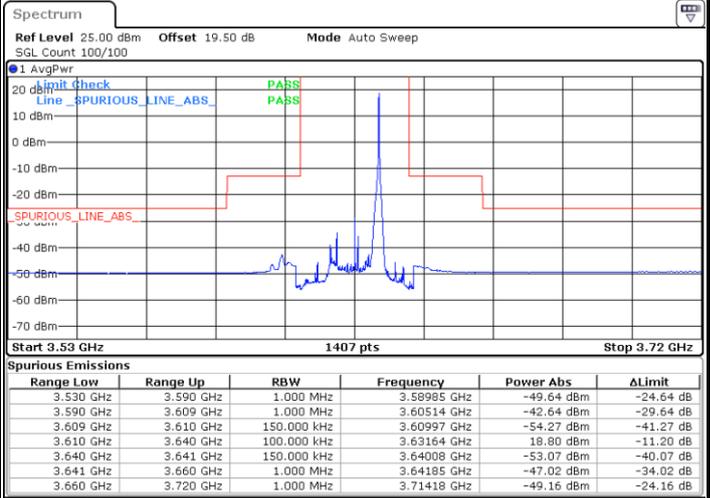
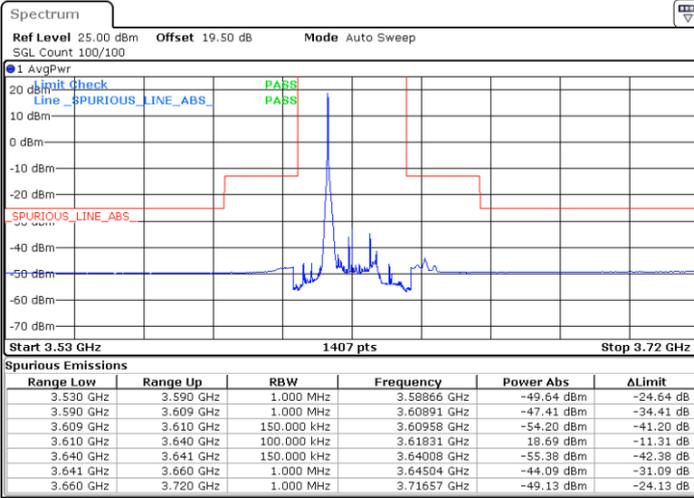


LTE Band 48 / 15MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

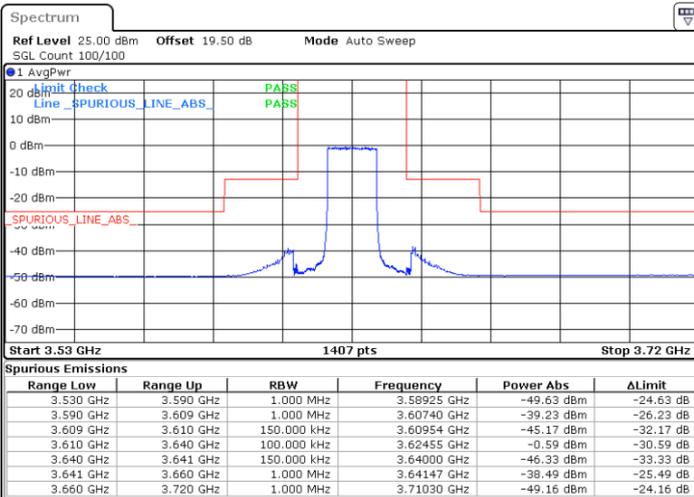


Date: 3 JUL 2025 08:01:53

Date: 3 JUL 2025 07:51:07

Middle Channel / FullRB

N/A



Date: 3 JUL 2025 07:49:31

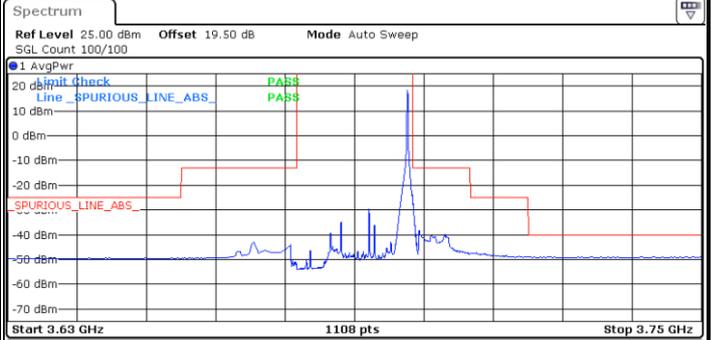
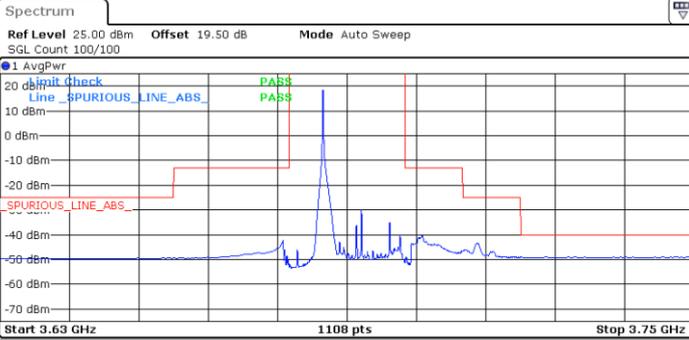


LTE Band 48 / 15MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65896 GHz	-49.34 dBm	-24.34 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67891 GHz	-42.08 dBm	-29.08 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67919 GHz	-46.02 dBm	-33.02 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68586 GHz	18.32 dBm	-11.68 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70020 GHz	-48.85 dBm	-35.85 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70292 GHz	-40.62 dBm	-27.62 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71243 GHz	-43.39 dBm	-18.39 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.74866 GHz	-49.03 dBm	-9.03 dB

Spurious Emissions

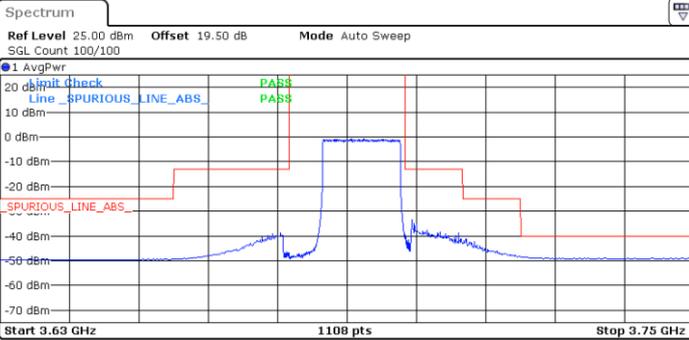
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65391 GHz	-49.43 dBm	-24.43 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67251 GHz	-43.00 dBm	-30.00 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67922 GHz	-50.46 dBm	-37.46 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69918 GHz	18.38 dBm	-11.62 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70001 GHz	-23.90 dBm	-10.90 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70104 GHz	-38.38 dBm	-25.38 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71114 GHz	-47.33 dBm	-22.33 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72371 GHz	-49.00 dBm	-9.00 dB

Date: 3 JUL 2025 04:02:00

Date: 3 JUL 2025 04:08:24

Highest Channel / FullRB

N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65866 GHz	-49.37 dBm	-24.37 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67853 GHz	-38.81 dBm	-25.81 dB
3.679 GHz	3.680 GHz	150.000 kHz	3.67946 GHz	-46.56 dBm	-33.56 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69070 GHz	-0.85 dBm	-30.85 dB
3.700 GHz	3.701 GHz	150.000 kHz	3.70000 GHz	-39.42 dBm	-26.42 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70122 GHz	-33.28 dBm	-20.28 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71045 GHz	-41.04 dBm	-16.04 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72045 GHz	-48.47 dBm	-8.47 dB

Date: 3 JUL 2025 04:09:41

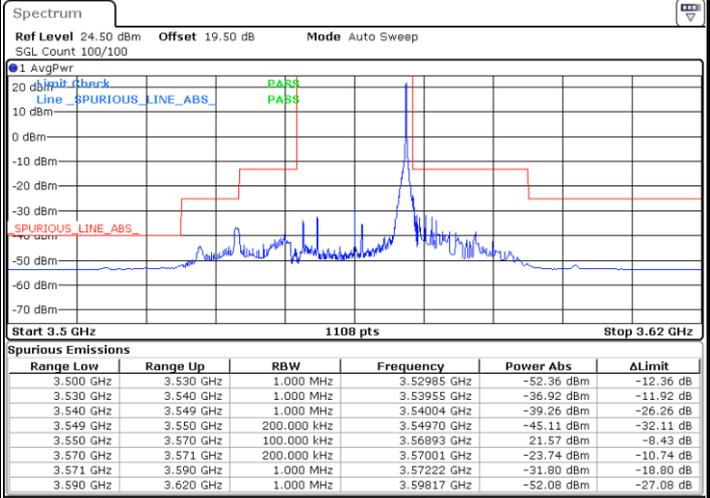
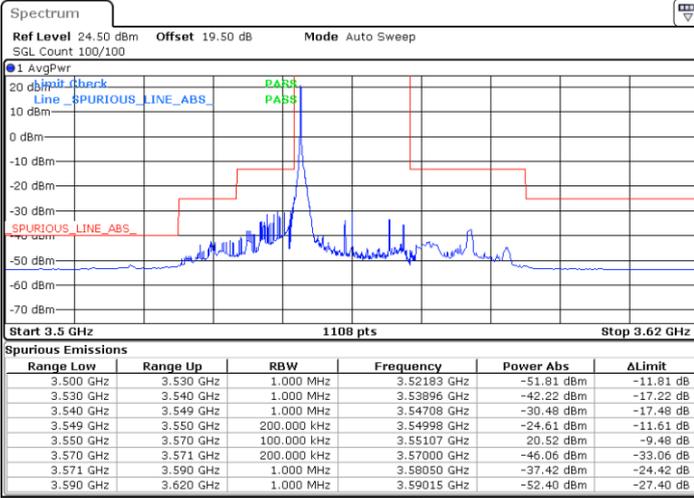


LTE Band 48 / 20MHz

QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

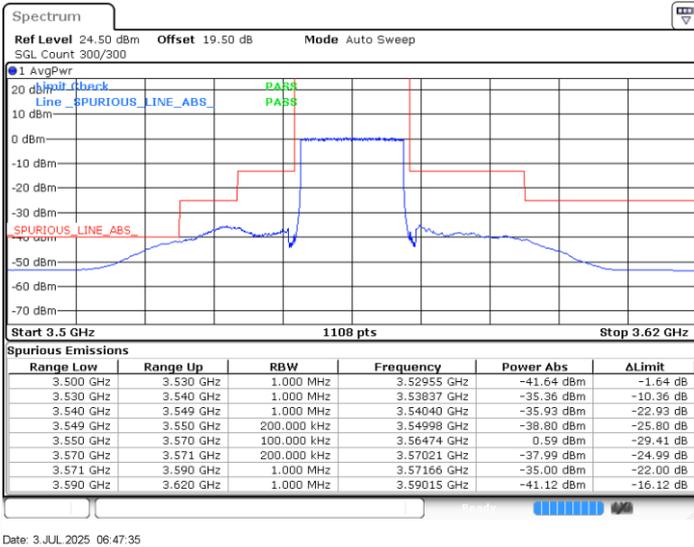


Date: 3 JUL 2025 06:38:47

Date: 3 JUL 2025 06:45:13

Lowest Channel / FullIRB

N/A



Date: 3 JUL 2025 06:47:35

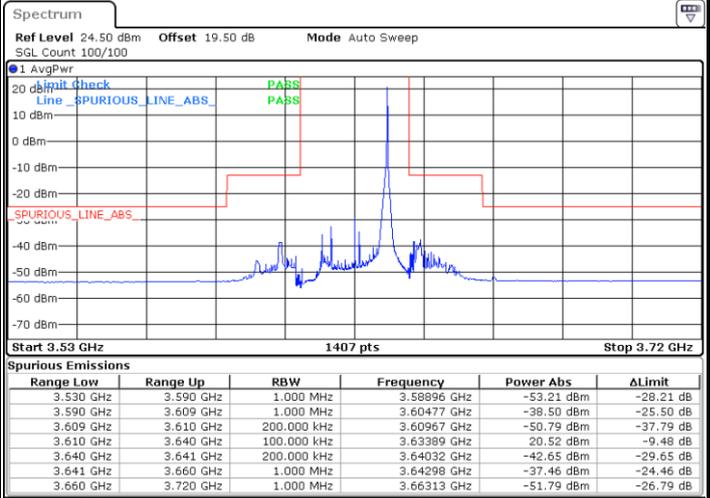
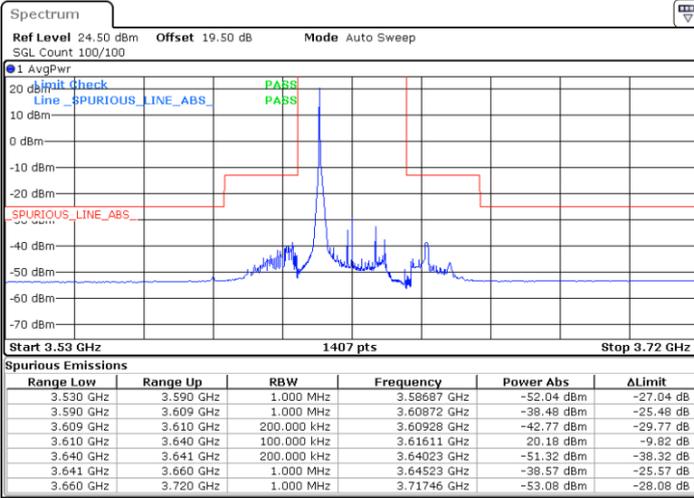


LTE Band 48 / 20MHz

QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax

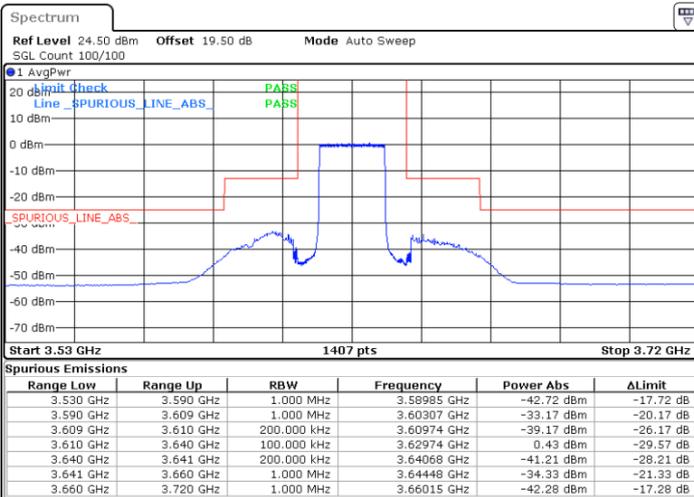


Date: 3 JUL 2025 08:19:25

Date: 3 JUL 2025 08:11:41

Middle Channel / FullIRB

N/A



Date: 3 JUL 2025 08:10:08

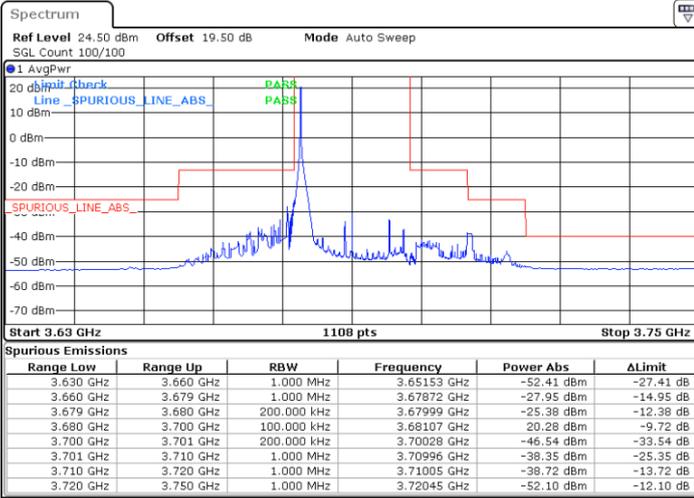


LTE Band 48 / 20MHz

QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

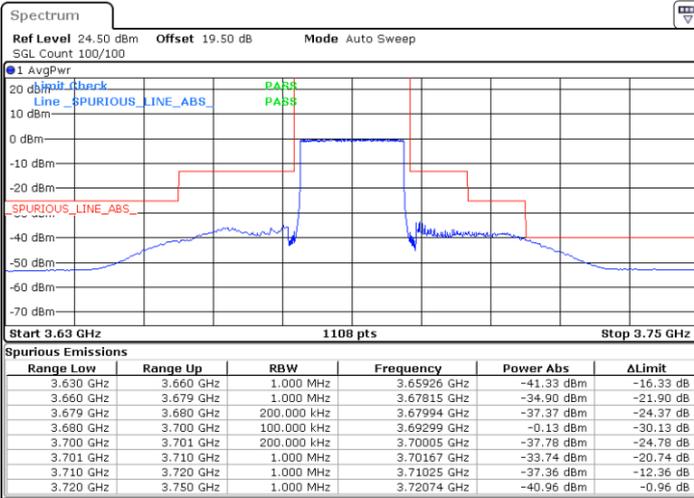


Date: 3 JUL 2025 07:24:24

Date: 3 JUL 2025 07:30:48

Highest Channel / FullRB

N/A



Date: 3 JUL 2025 07:32:05

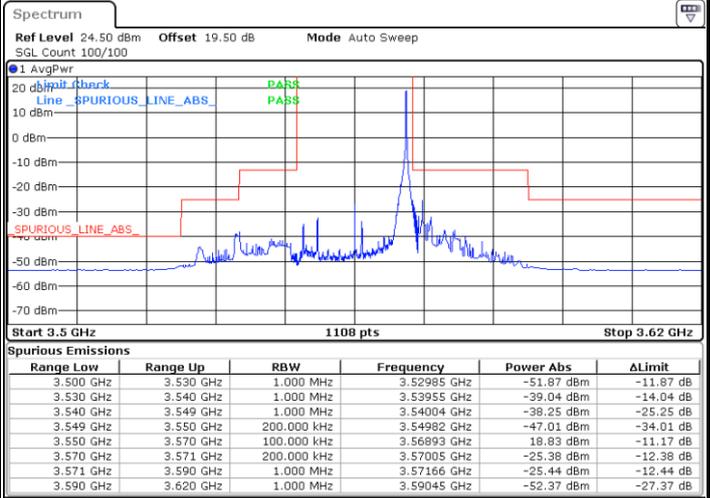
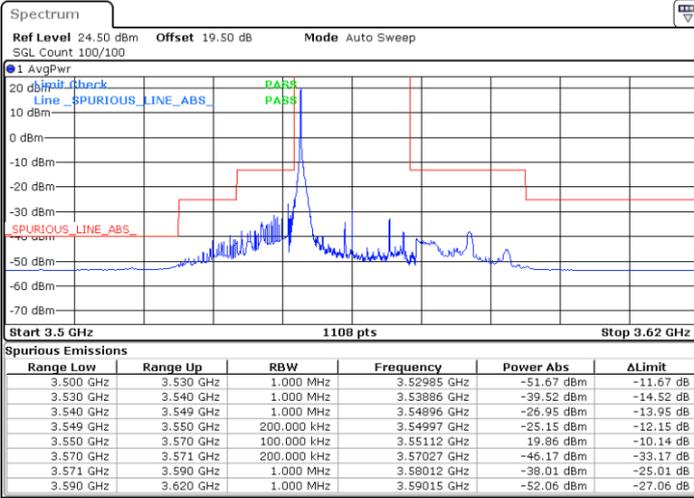


LTE Band 48 / 20MHz

16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

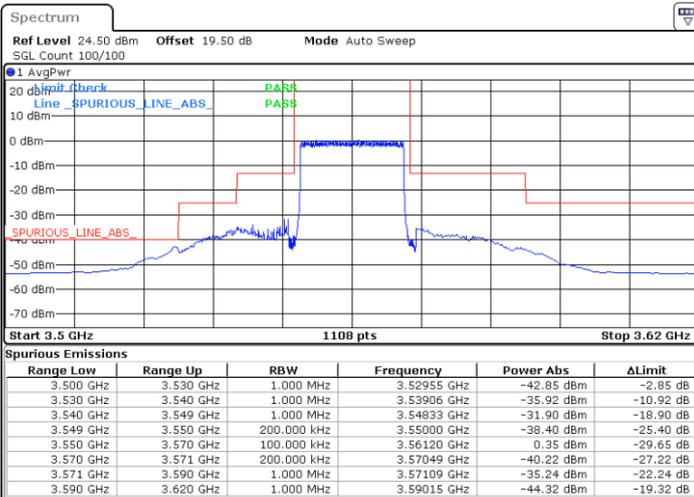


Date: 3 JUL 2025 06:40:04

Date: 3 JUL 2025 06:43:56

Lowest Channel / FullRB

N/A



Date: 3 JUL 2025 06:47:47

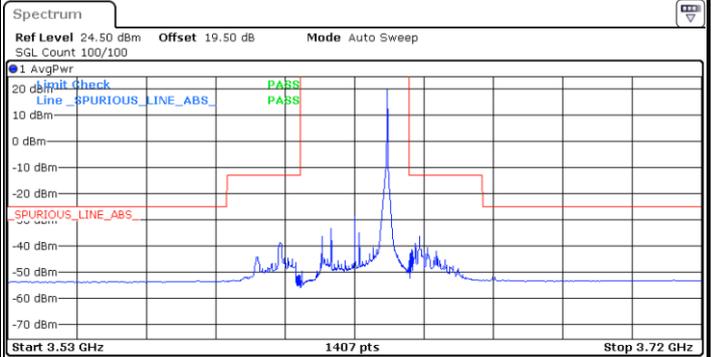
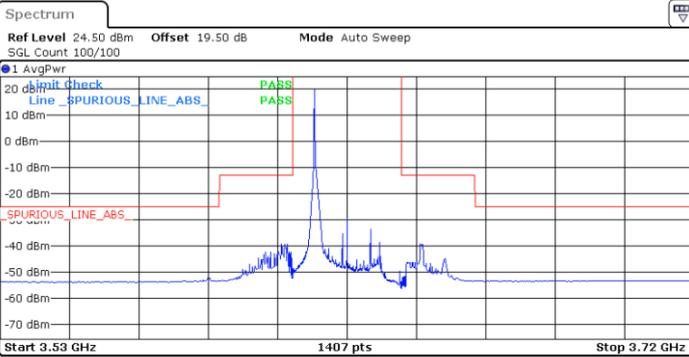


LTE Band 48 / 20MHz

16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58687 GHz	-52.16 dBm	-27.16 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60702 GHz	-39.16 dBm	-26.16 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60917 GHz	-42.34 dBm	-29.34 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.61806 GHz	19.44 dBm	-10.56 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64079 GHz	-51.43 dBm	-38.43 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64504 GHz	-39.17 dBm	-26.17 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.71925 GHz	-53.10 dBm	-28.10 dB

Spurious Emissions

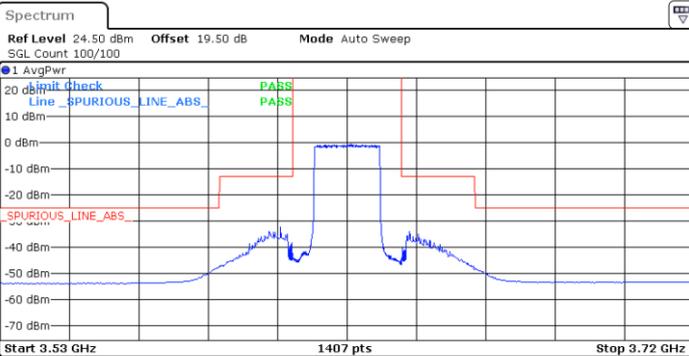
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58209 GHz	-53.25 dBm	-28.25 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60458 GHz	-38.75 dBm	-25.75 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60962 GHz	-50.94 dBm	-37.94 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.63394 GHz	19.54 dBm	-10.46 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64066 GHz	-41.29 dBm	-28.29 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64279 GHz	-36.28 dBm	-23.28 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66343 GHz	-52.04 dBm	-27.04 dB

Date: 3 JUL 2025 08:17:52

Date: 3 JUL 2025 08:13:14

Middle Channel / FullIRB

N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.590 GHz	1.000 MHz	3.58985 GHz	-47.32 dBm	-22.32 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.60665 GHz	-32.26 dBm	-19.26 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.60987 GHz	-38.28 dBm	-25.28 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.62615 GHz	-0.75 dBm	-30.75 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.64016 GHz	-40.30 dBm	-27.30 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.64203 GHz	-33.94 dBm	-20.94 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.66015 GHz	-47.82 dBm	-22.82 dB

Date: 3 JUL 2025 08:08:36

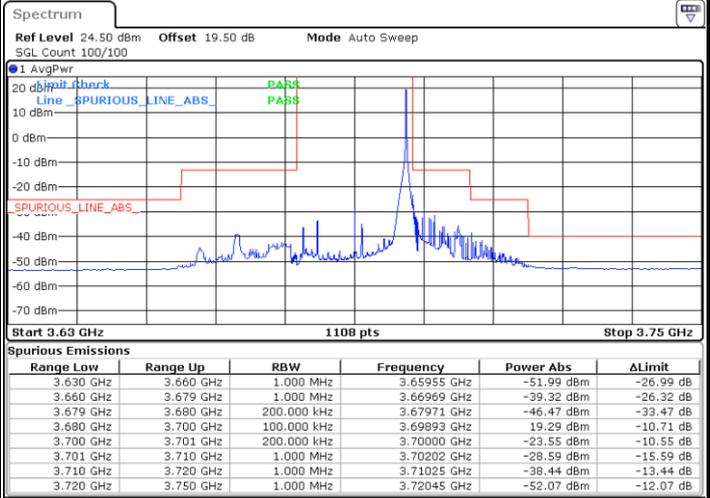
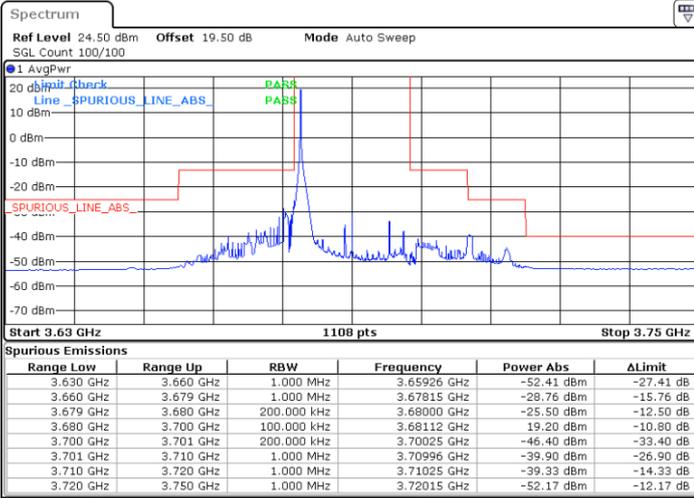


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

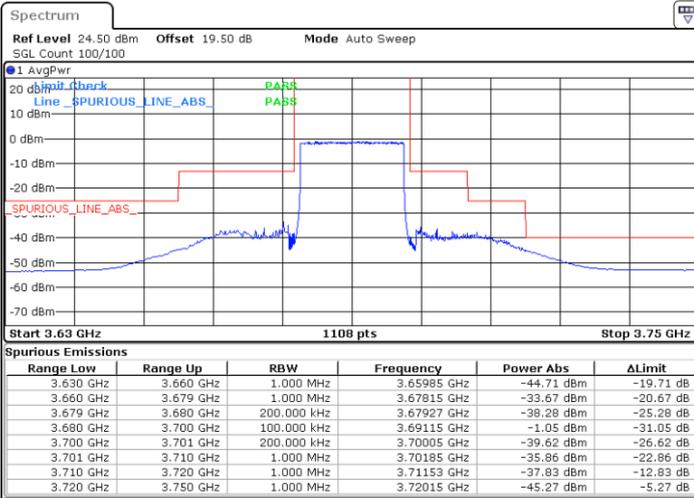


Date: 3 JUL 2025 07:25:41

Date: 3 JUL 2025 07:29:31

Highest Channel / FullRB

N/A



Date: 3 JUL 2025 07:33:21

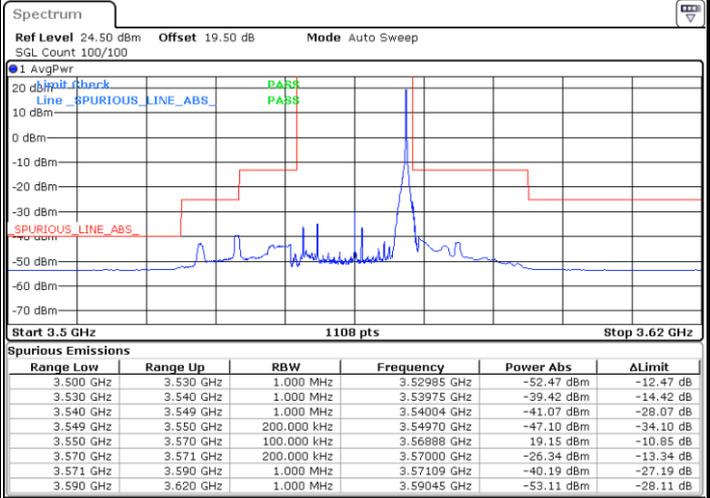
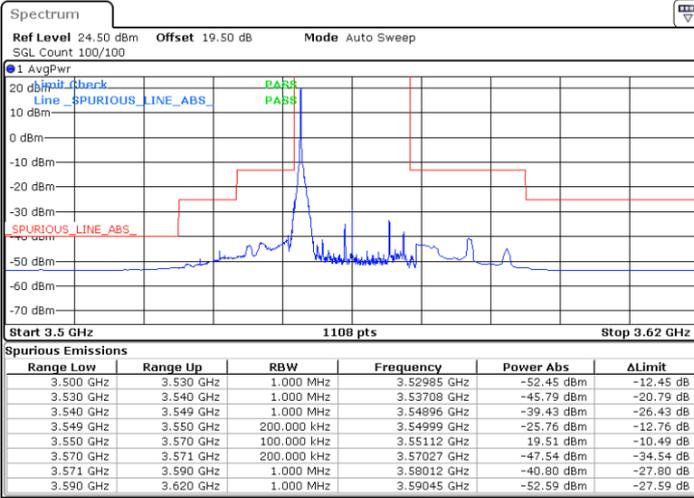


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

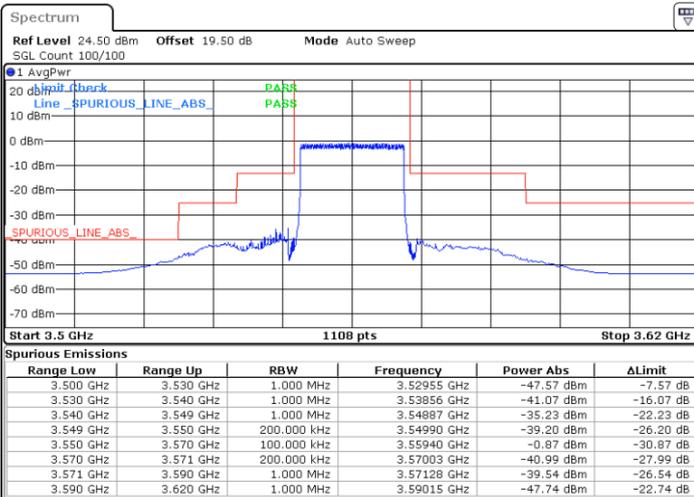


Date: 3 JUL 2025 06:41:21

Date: 3 JUL 2025 06:42:39

Lowest Channel / FullRB

N/A



Date: 3 JUL 2025 06:48:05

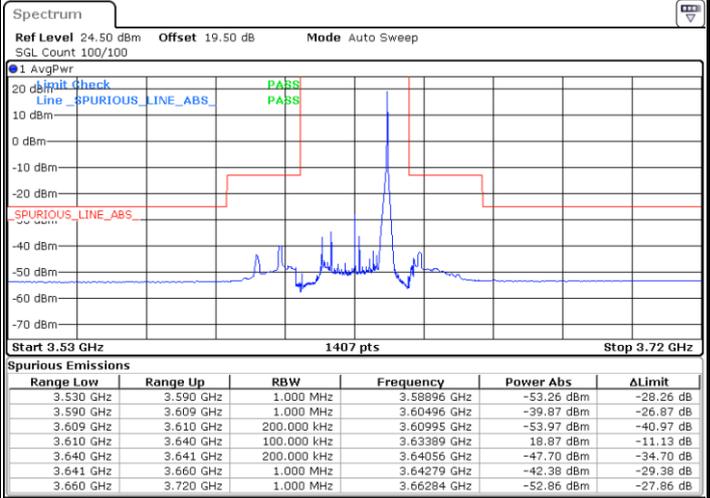
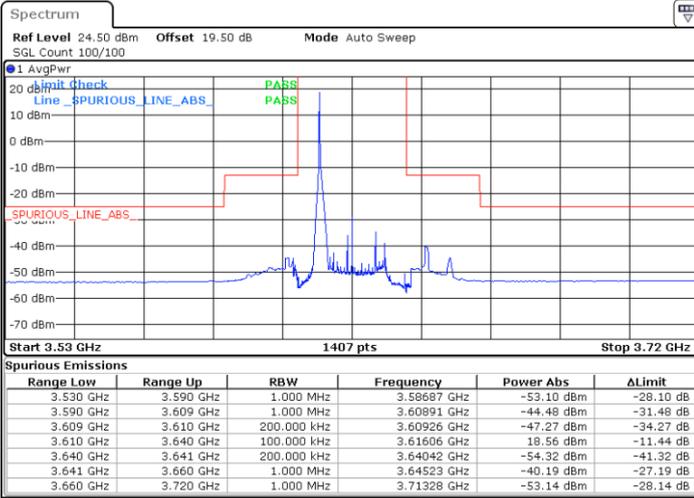


LTE Band 48 / 20MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

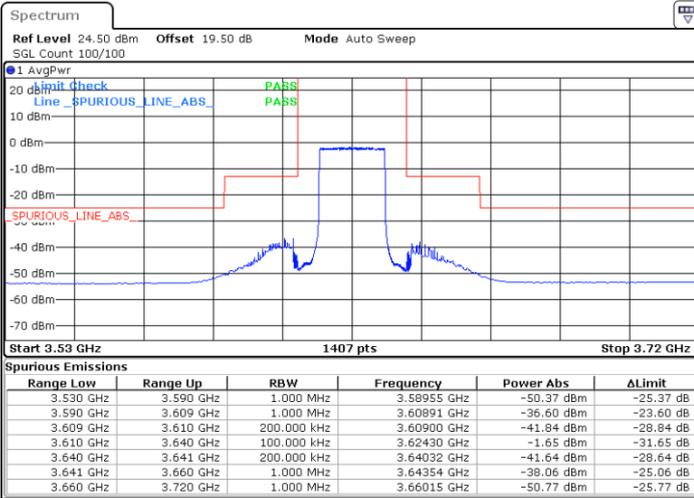


Date: 3 JUL 2025 08:16:20

Date: 3 JUL 2025 08:14:47

Middle Channel / FullRB

N/A



Date: 3 JUL 2025 08:07:03

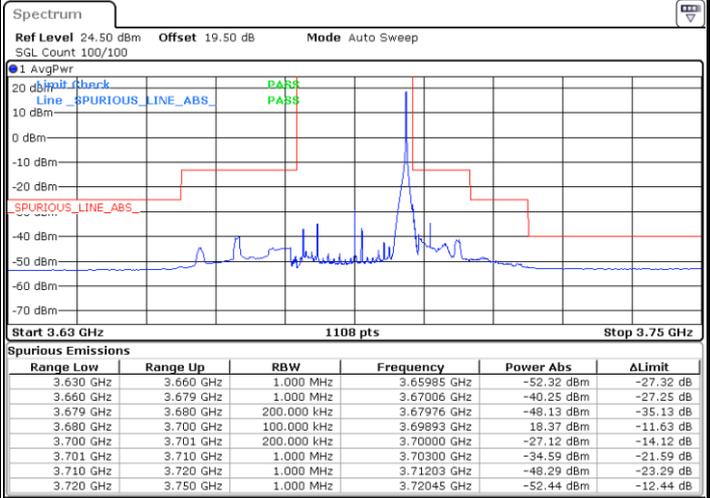
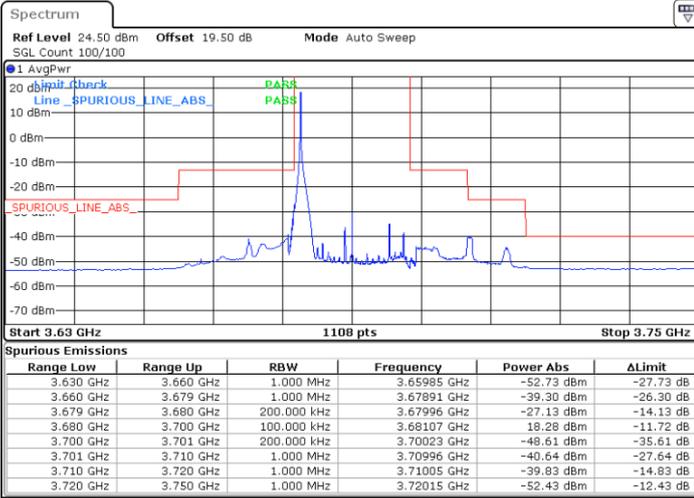


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

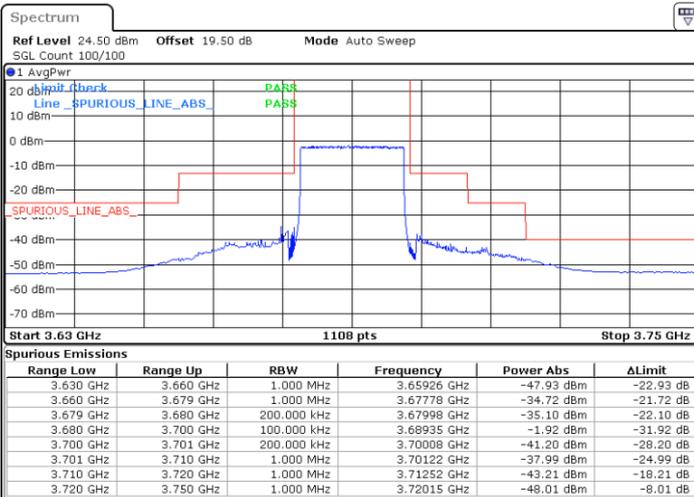


Date: 3 JUL 2025 07:26:57

Date: 3 JUL 2025 07:28:14

Highest Channel / FullRB

N/A



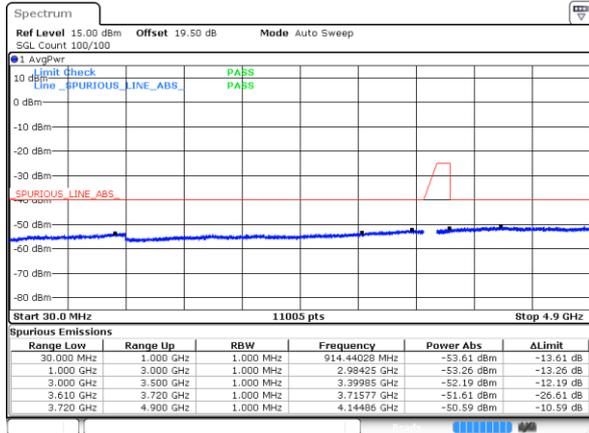
Date: 3 JUL 2025 07:34:38



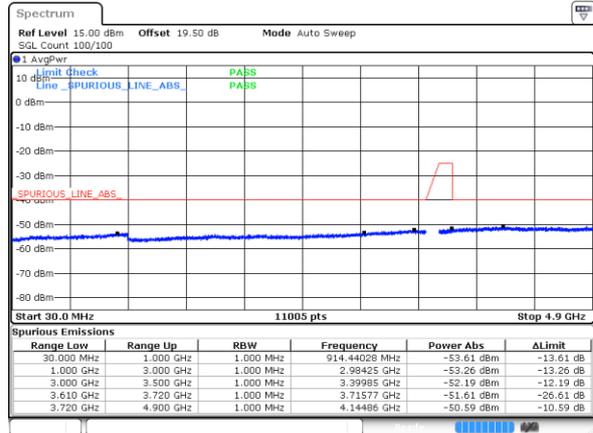
# Conducted Spurious Emission

## LTE Band 48 / 5MHz

### Lowest Channel / QPSK

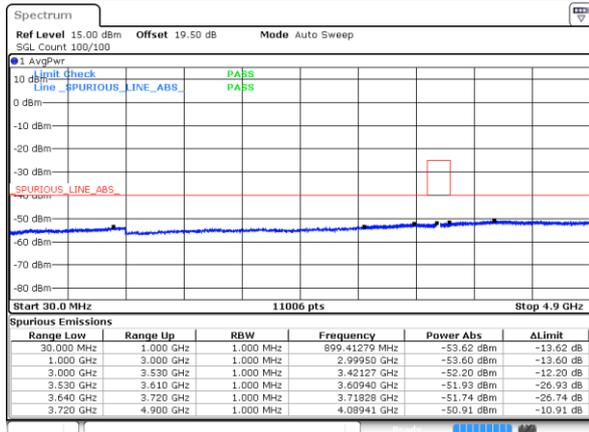


Date: 2.JUL.2025 16:01:54

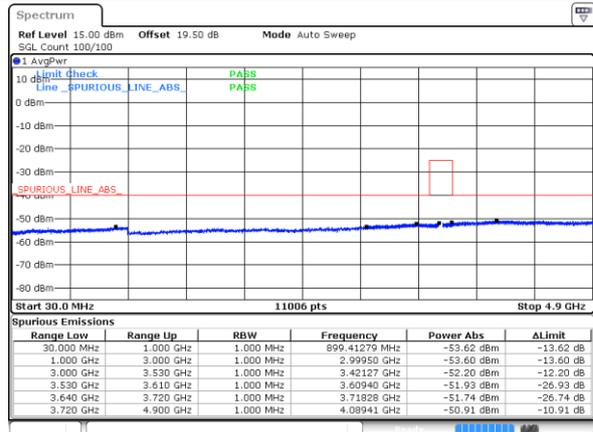


Date: 2.JUL.2025 16:01:54

### Middle Channel / QPSK

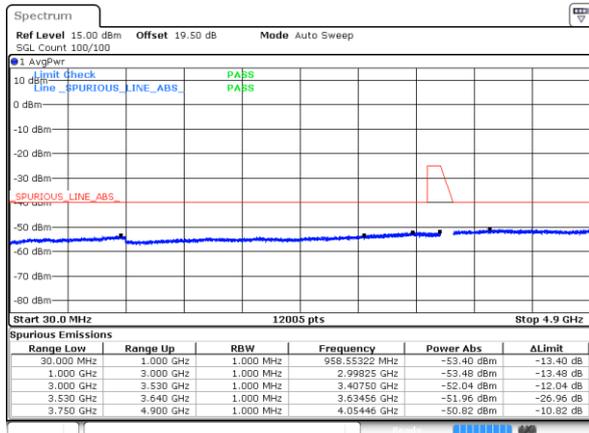


Date: 2.JUL.2025 16:21:40

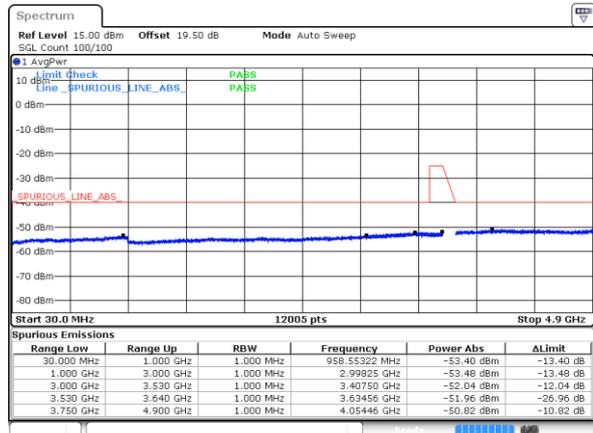


Date: 2.JUL.2025 16:21:40

### Highest Channel / QPSK



Date: 2.JUL.2025 16:40:17

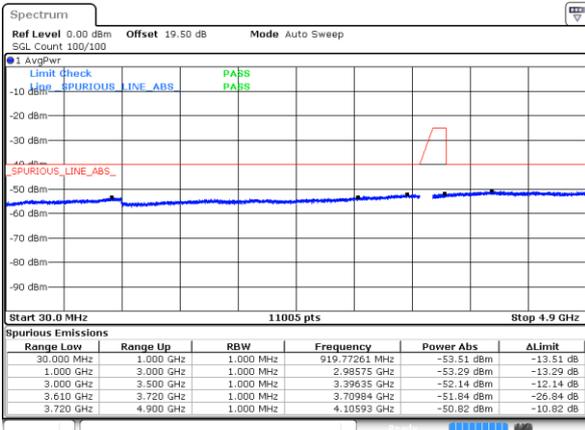


Date: 2.JUL.2025 16:40:17

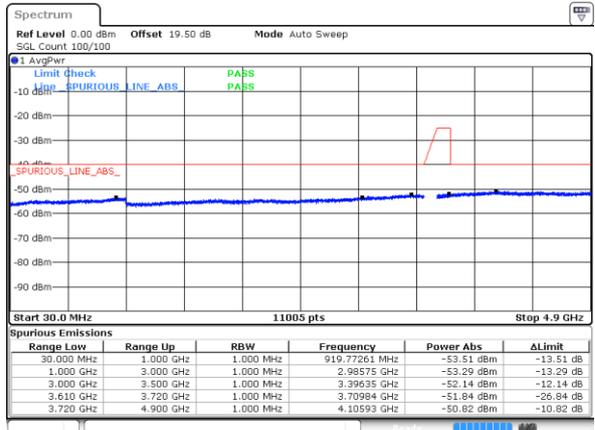


LTE Band 48 / 10MHz

Lowest Channel / QPSK

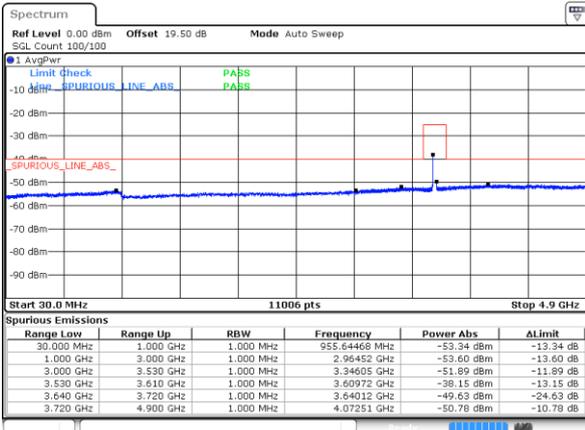


Date: 2 JUL 2025 16:58:01

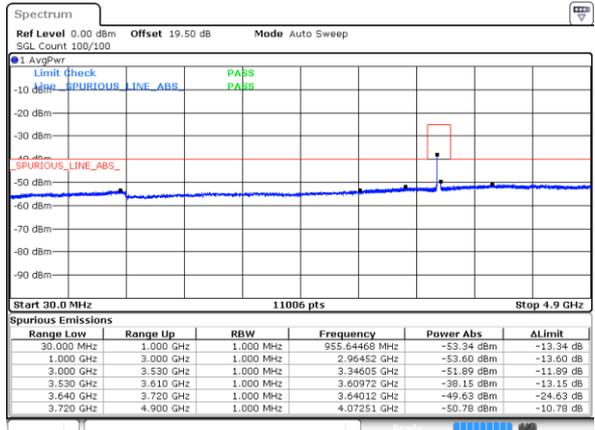


Date: 2 JUL 2025 16:58:01

Middle Channel / QPSK

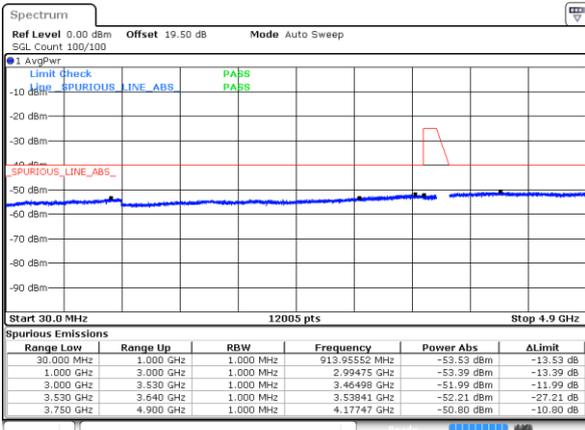


Date: 2 JUL 2025 17:16:16

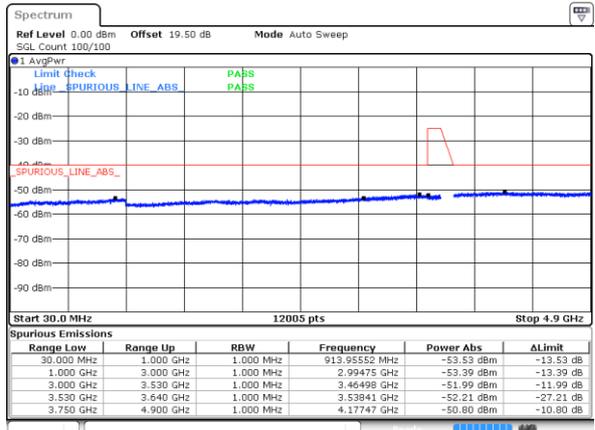


Date: 2 JUL 2025 17:16:16

Highest Channel / QPSK



Date: 2 JUL 2025 20:02:58

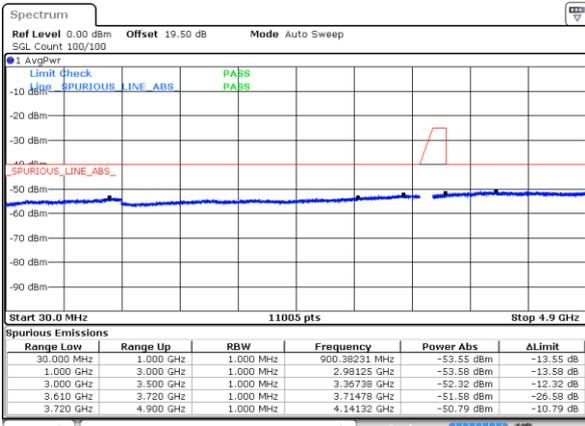


Date: 2 JUL 2025 20:02:58

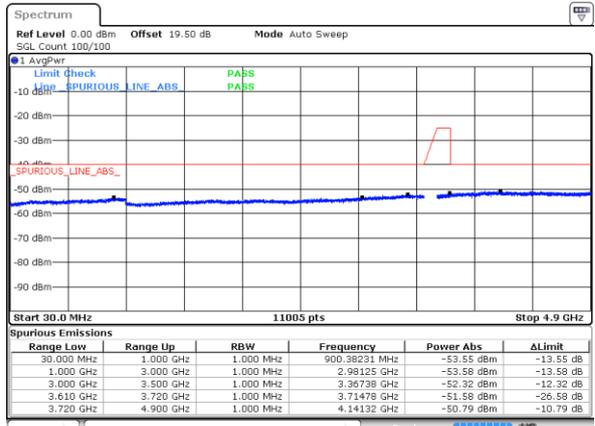


LTE Band 48 / 15MHz

Lowest Channel / QPSK

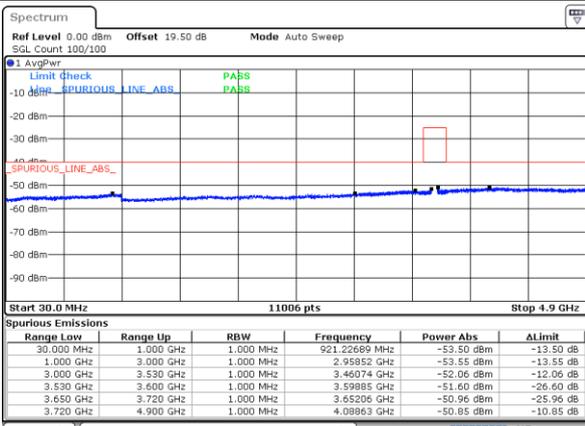


Date: 3 JUL 2025 03:28:20

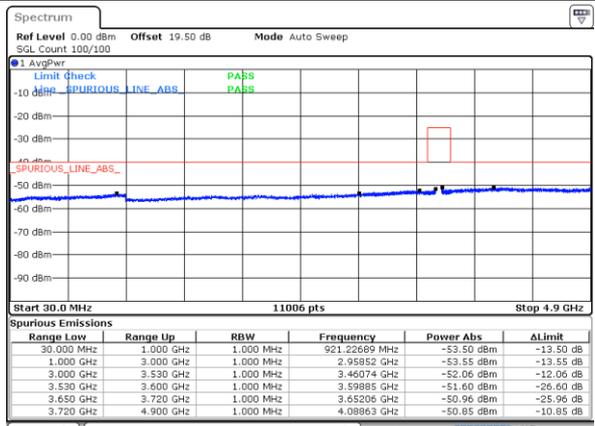


Date: 3 JUL 2025 03:28:20

Middle Channel / QPSK

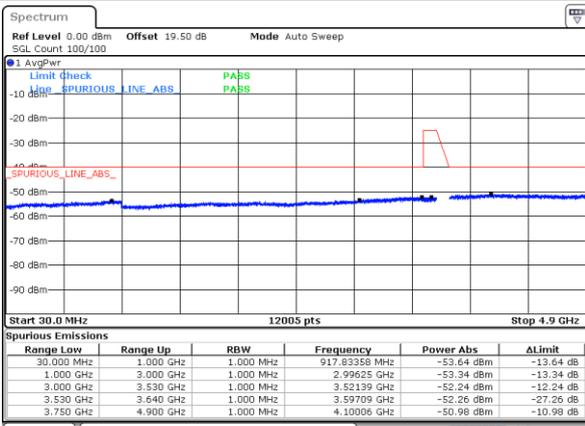


Date: 3 JUL 2025 03:52:58

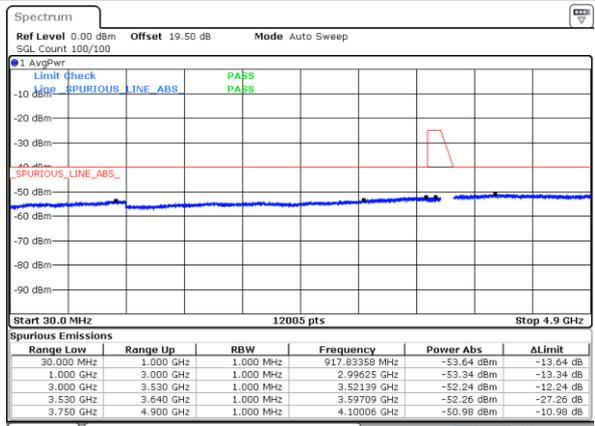


Date: 3 JUL 2025 03:52:58

Highest Channel / QPSK



Date: 3 JUL 2025 04:13:23

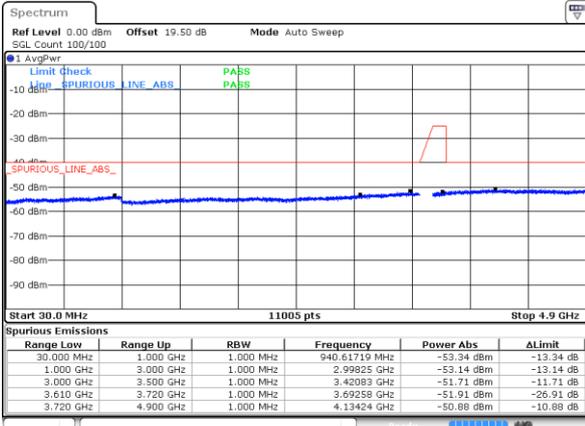


Date: 3 JUL 2025 04:13:23

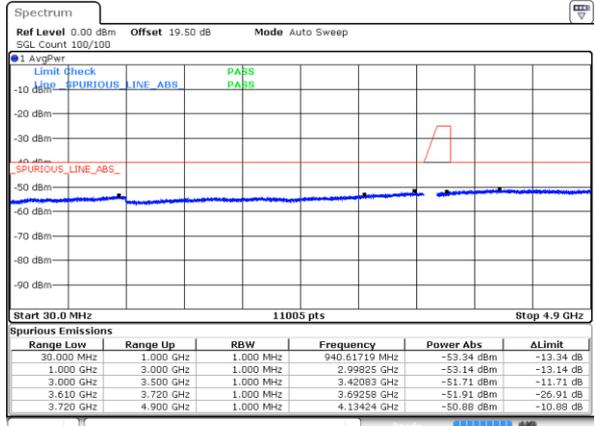


LTE Band 48 / 20MHz

Lowest Channel / QPSK

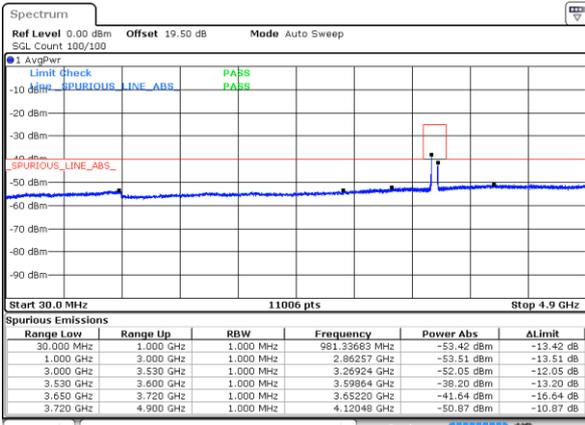


Date: 3 JUL 2025 06:50:14

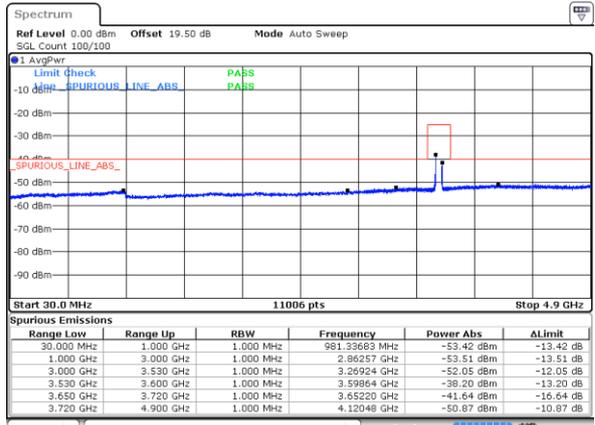


Date: 3 JUL 2025 06:50:14

Middle Channel / QPSK

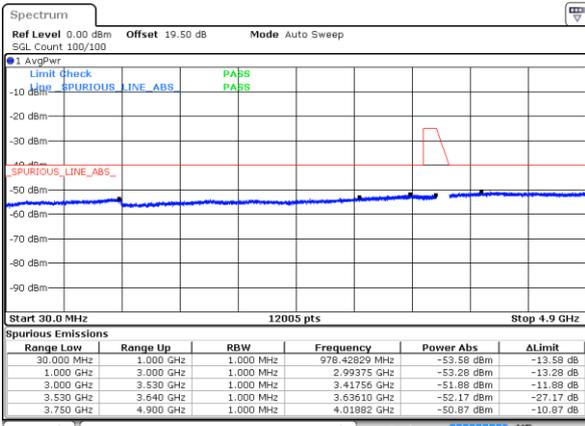


Date: 3 JUL 2025 07:14:16

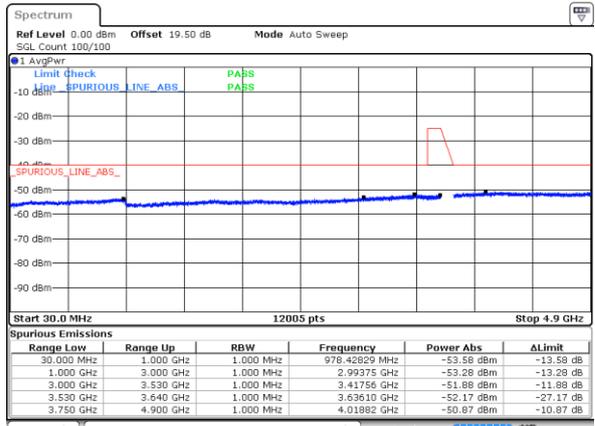


Date: 3 JUL 2025 07:14:16

Highest Channel / QPSK



Date: 3 JUL 2025 07:35:47



Date: 3 JUL 2025 07:35:47



### Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Frequency Offset ( $\Delta f$ ) (Hz)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0091	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0082	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0079	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0055	

**Note:**

1. Normal Voltage = 3.89 V.; Battery End Point (BEP) = 3.6 V.; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Jia Kuang	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 48 / 20MHz / QPSK / Ant.6									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7232.00	-59.39	-40	-19.39	-65.09	-62.69	8.30	11.60	H
	10848.00	-53.81	-40	-13.81	-66.51	-55.33	10.48	12.00	H
	14464.00	-47.94	-40	-7.94	-66.68	-49.64	11.80	13.50	H
	7232.00	-58.65	-40	-18.65	-64.66	-61.95	8.30	11.60	V
	10848.00	-52.92	-40	-12.92	-65.25	-54.44	10.48	12.00	V
	14464.00	-48.25	-40	-8.25	-66.41	-49.95	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.