

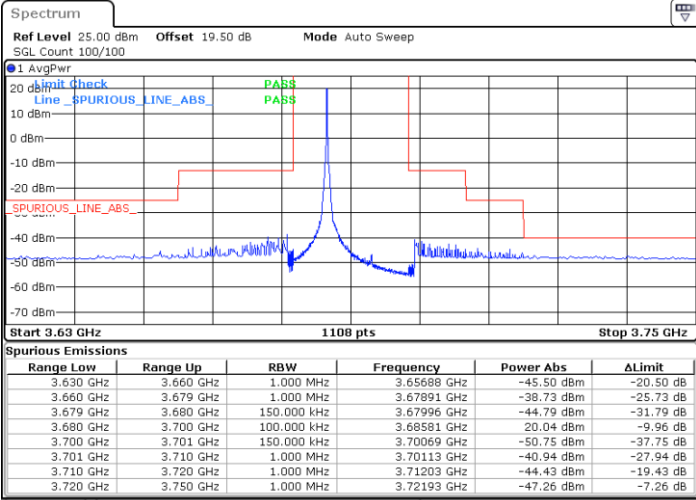


LTE Band 48 / 15MHz

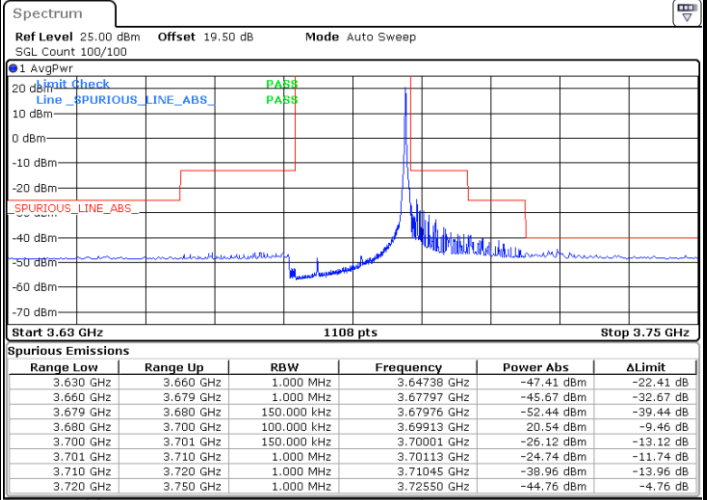
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



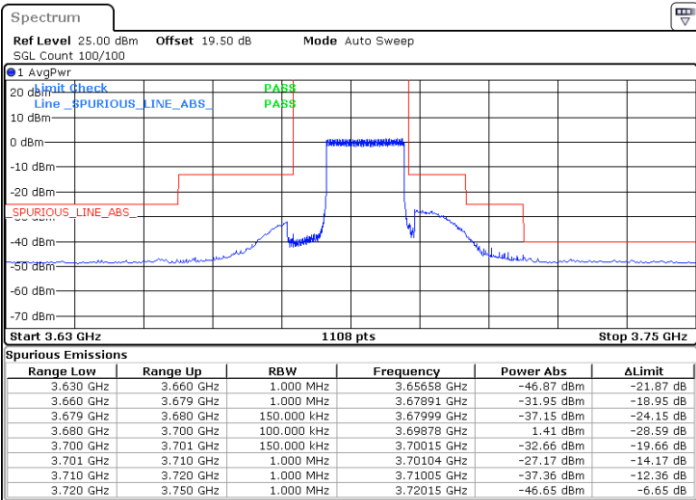
Date: 11.JUL.2024 16:30:00



Date: 11.JUL.2024 16:34:14

Highest Channel / FullRB

N/A



Date: 11.JUL.2024 16:38:29

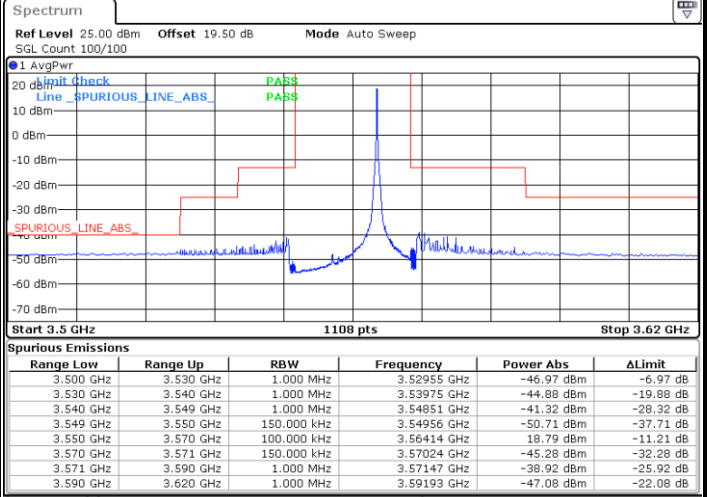
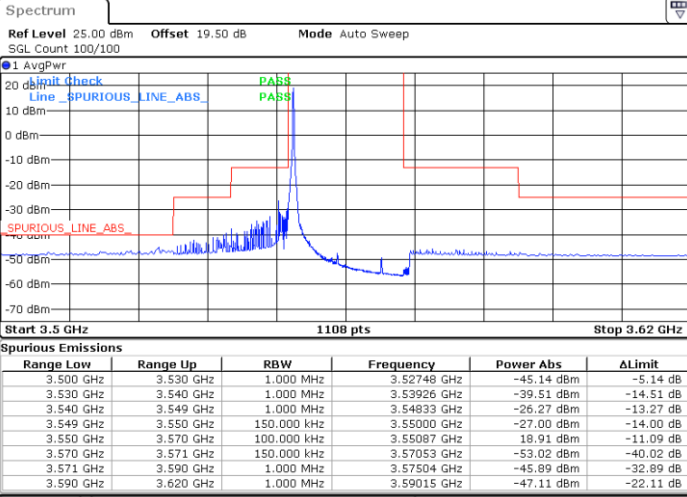


LTE Band 48 / 15MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

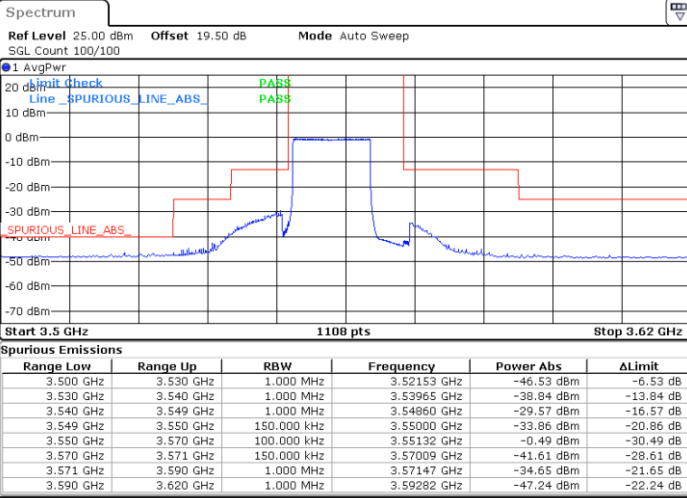


Date: 11.JUL.2024 15:27:12

Date: 11.JUL.2024 15:33:19

Lowest Channel / FullIRB

N/A



Date: 11.JUL.2024 15:34:33

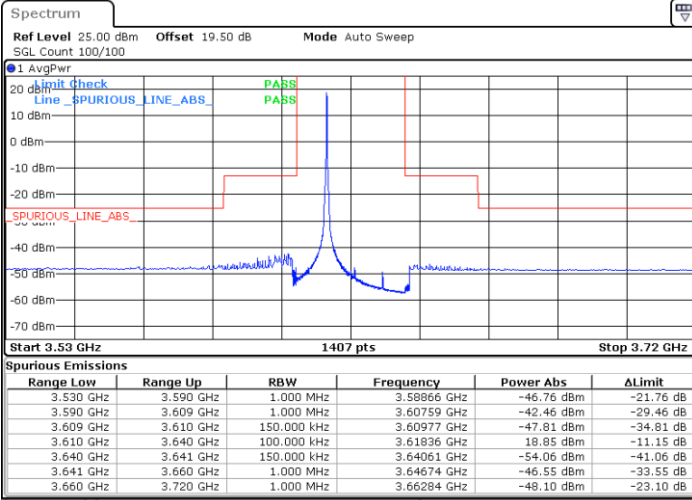


LTE Band 48 / 15MHz

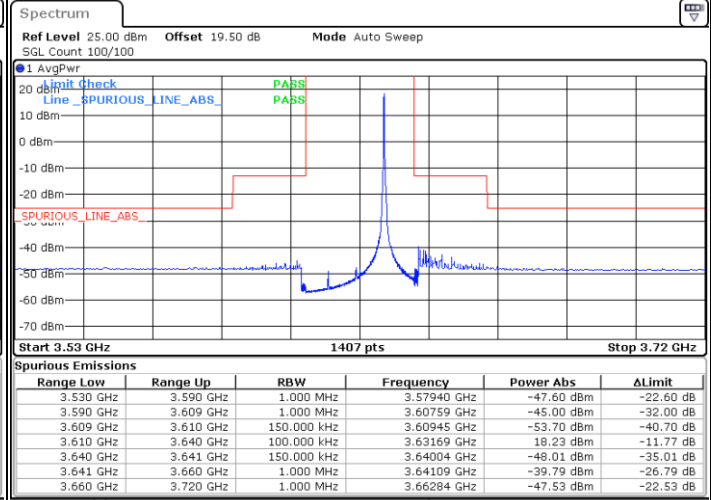
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



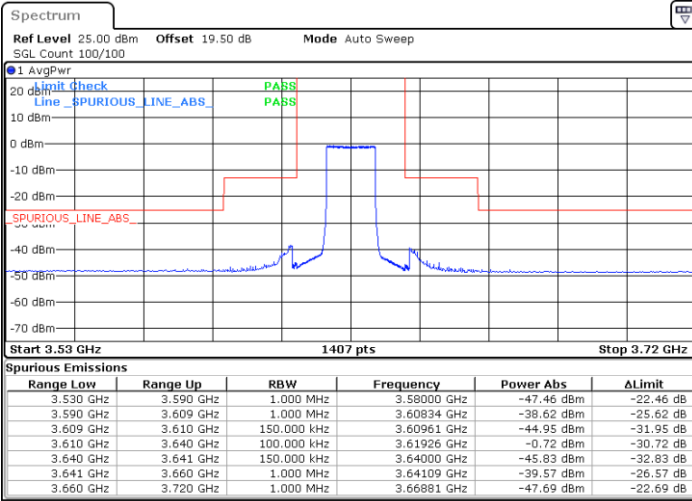
Date: 21.JUL.2024 19:16:59



Date: 21.JUL.2024 19:08:59

Middle Channel / FullRB

N/A



Date: 21.JUL.2024 19:07:23

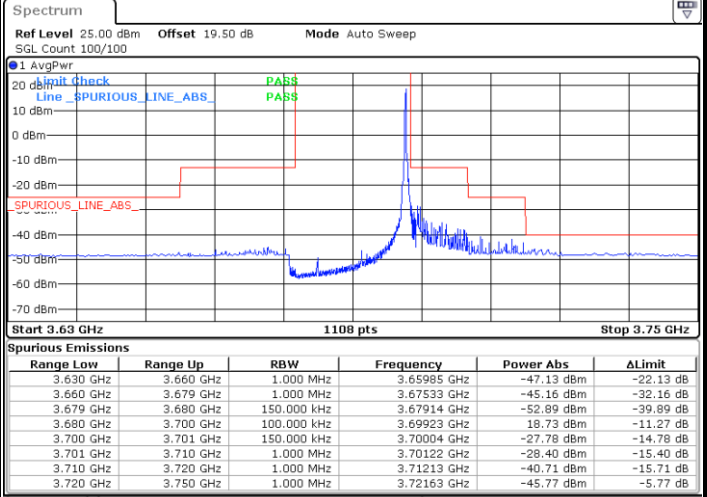
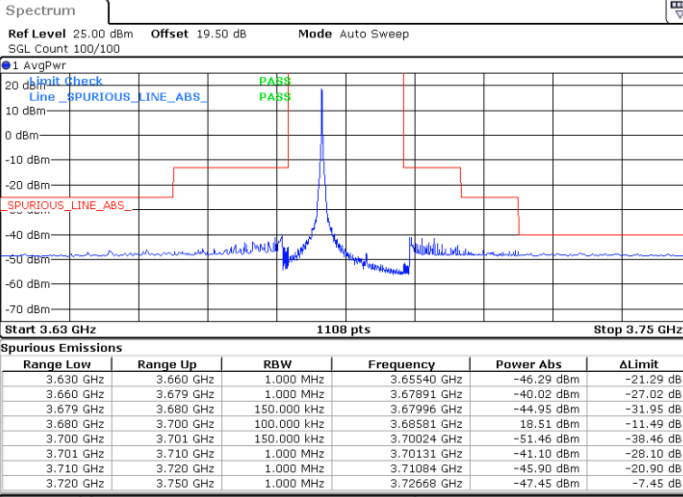


LTE Band 48 / 15MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

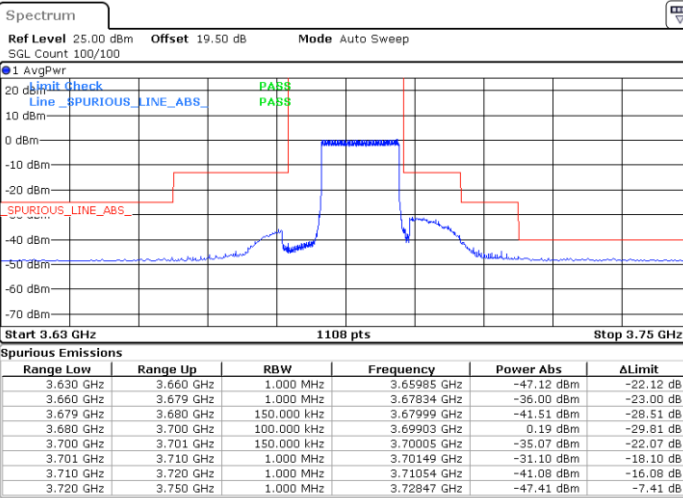


Date: 11.JUL.2024 16:28:36

Date: 11.JUL.2024 16:35:39

Highest Channel / FullRB

N/A



Date: 11.JUL.2024 16:37:04

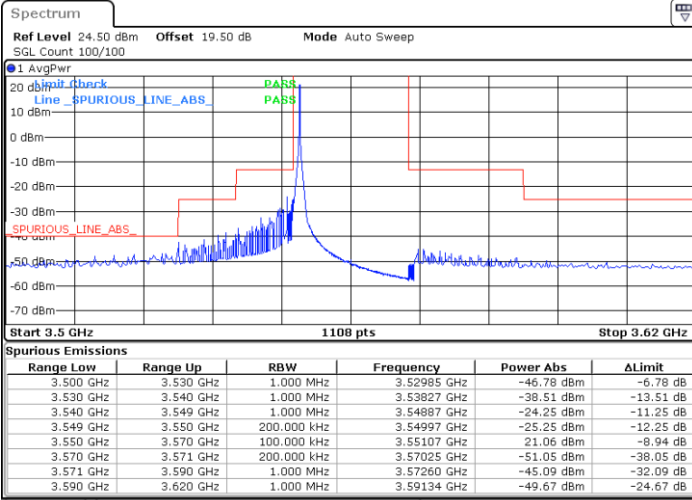


LTE Band 48 / 20MHz

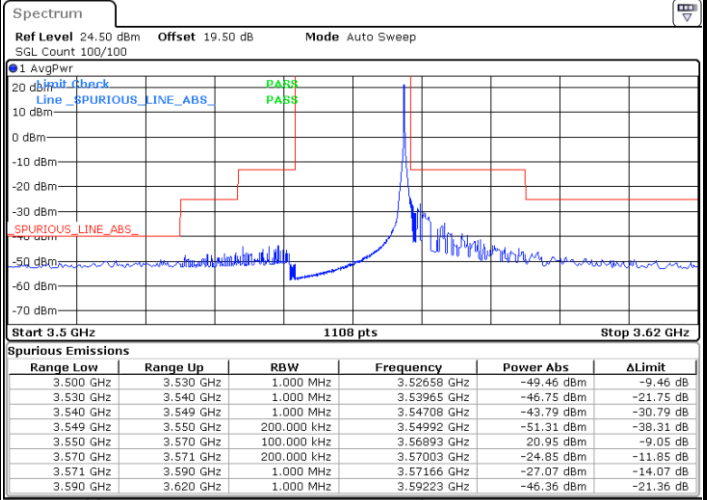
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



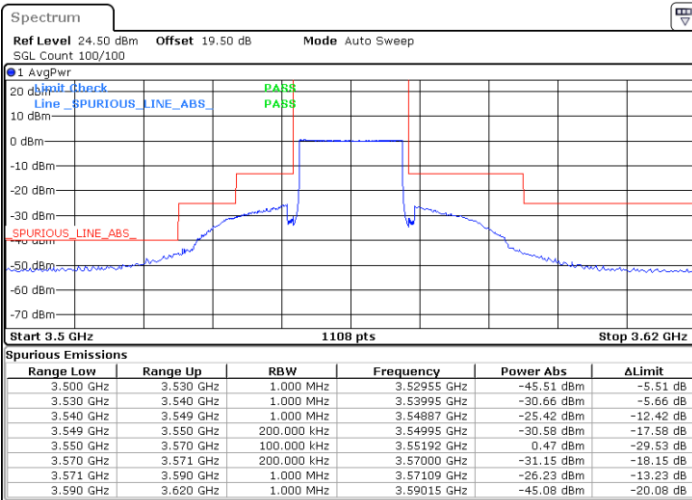
Date: 11.JUL.2024 16:49:51



Date: 11.JUL.2024 16:56:56

Lowest Channel / FullIRB

N/A



Date: 11.JUL.2024 16:58:21

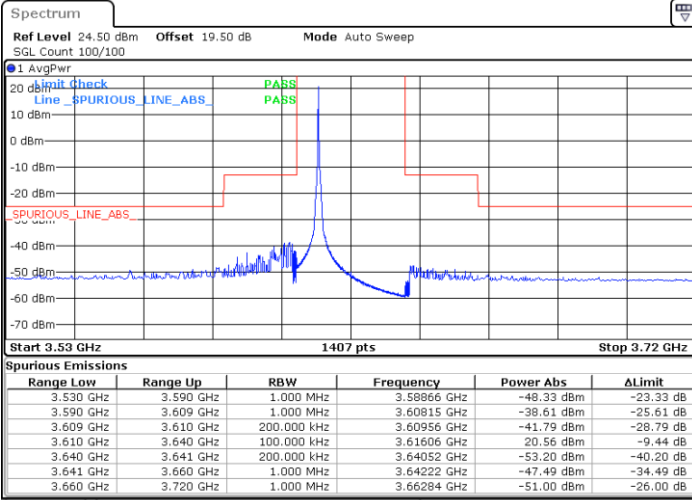


LTE Band 48 / 20MHz

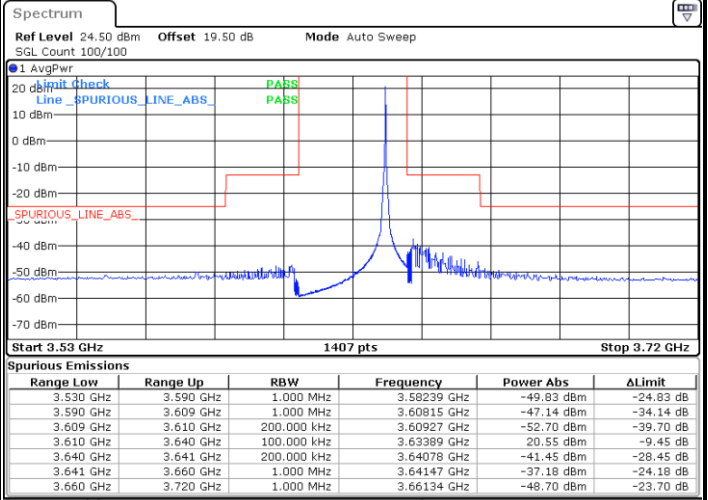
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



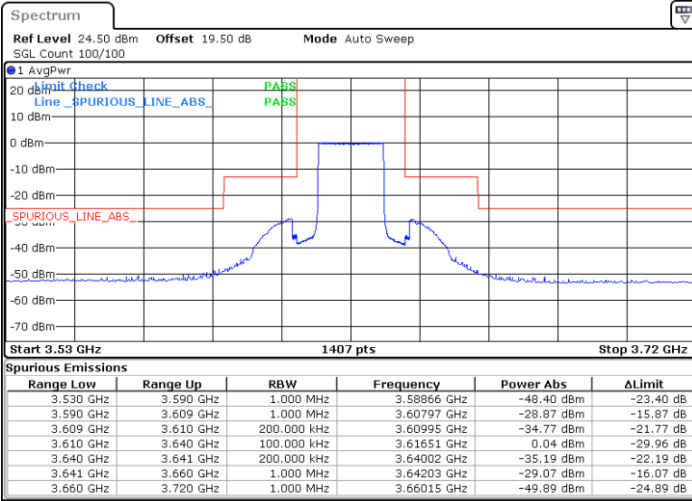
Date: 21.JUL.2024 19:38:18



Date: 21.JUL.2024 19:26:47

Middle Channel / FullIRB

N/A



Date: 21.JUL.2024 19:25:11

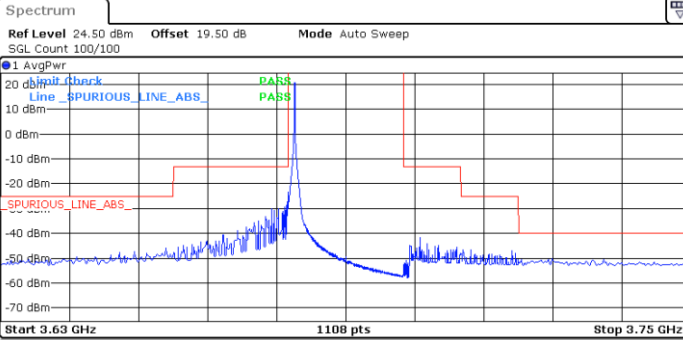


LTE Band 48 / 20MHz

QPSK

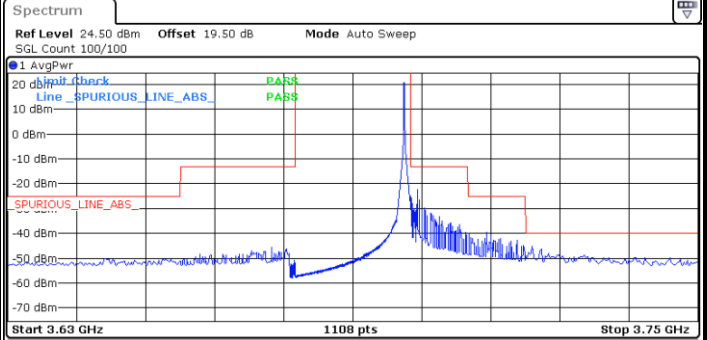
Highest Channel / 1RB0

Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.65866 GHz	-45.95 dBm	-20.95 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67702 GHz	-30.12 dBm	-17.12 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.68000 GHz	-23.27 dBm	-10.27 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.68107 GHz	20.56 dBm	-9.44 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70050 GHz	-50.92 dBm	-37.92 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70292 GHz	-41.86 dBm	-28.86 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71173 GHz	-46.72 dBm	-21.72 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72579 GHz	-50.21 dBm	-10.21 dB



Spurious Emissions

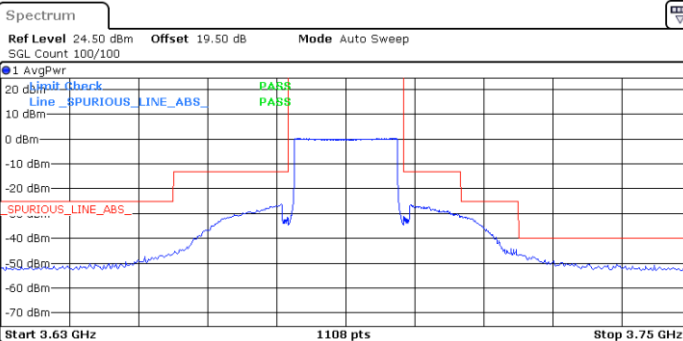
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.630 GHz	3.660 GHz	1.000 MHz	3.64708 GHz	-50.02 dBm	-25.02 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67590 GHz	-45.74 dBm	-32.74 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67990 GHz	-50.74 dBm	-37.74 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69893 GHz	20.77 dBm	-9.23 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70002 GHz	-25.09 dBm	-12.09 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70122 GHz	-22.47 dBm	-9.47 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71322 GHz	-39.69 dBm	-14.69 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72104 GHz	-45.32 dBm	-5.32 dB

Date: 12.JUL.2024 12:04:35

Date: 12.JUL.2024 12:11:39

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	3.65926 GHz	-46.17 dBm	-21.17 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.67872 GHz	-26.21 dBm	-13.21 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.67986 GHz	-31.44 dBm	-18.44 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.69803 GHz	0.26 dBm	-29.74 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.70001 GHz	-31.02 dBm	-18.02 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.70131 GHz	-26.61 dBm	-13.61 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71025 GHz	-31.07 dBm	-6.07 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72015 GHz	-46.47 dBm	-6.47 dB

Date: 12.JUL.2024 12:13:04

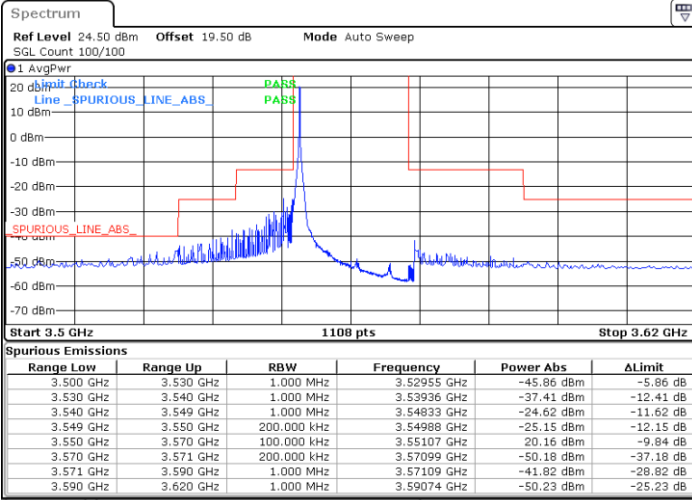


LTE Band 48 / 20MHz

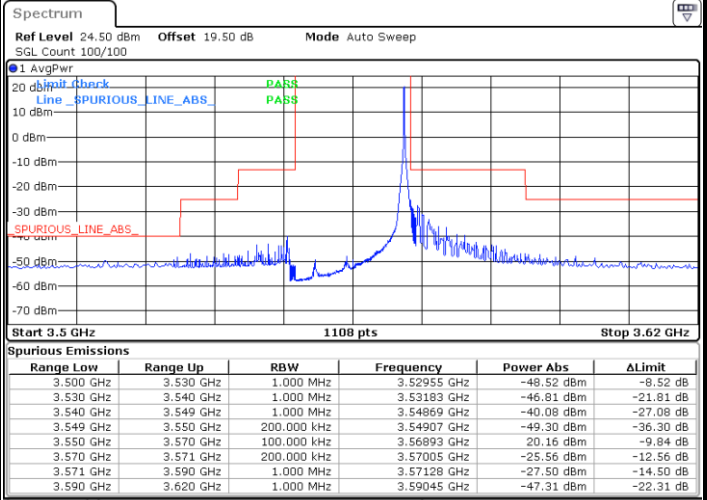
16QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



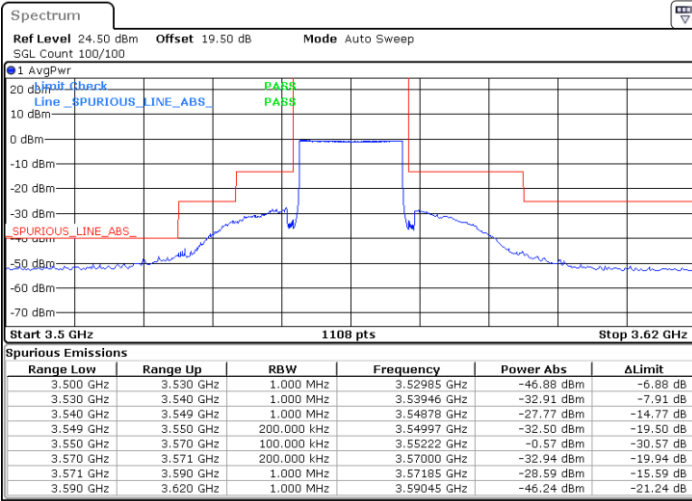
Date: 11.JUL.2024 16:51:16



Date: 11.JUL.2024 16:55:31

Lowest Channel / FullIRB

N/A



Date: 11.JUL.2024 16:59:46

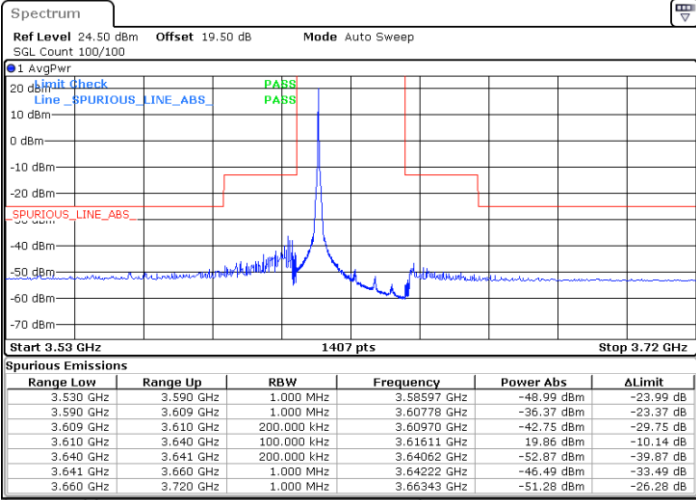


LTE Band 48 / 20MHz

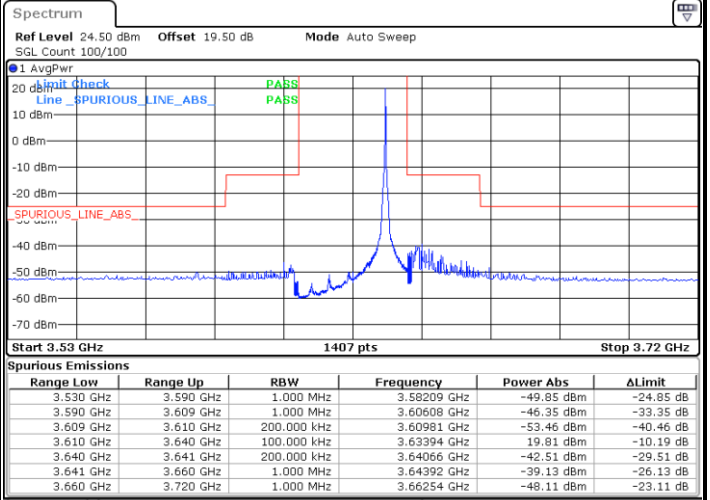
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



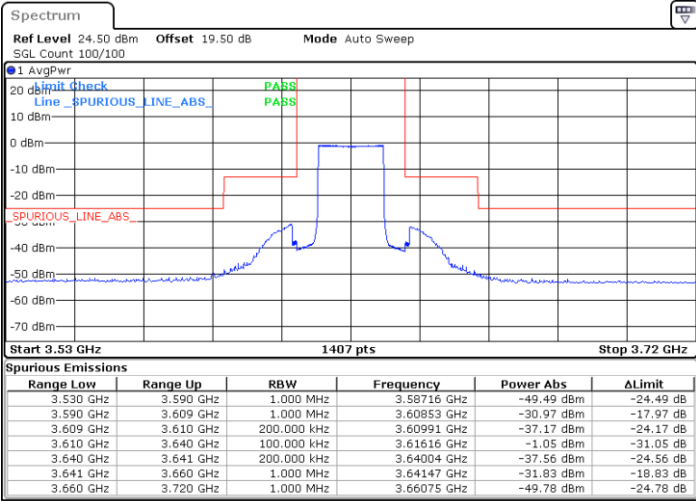
Date: 21.JUL.2024 19:36:42



Date: 21.JUL.2024 19:28:23

Middle Channel / FullRB

N/A



Date: 21.JUL.2024 19:23:35

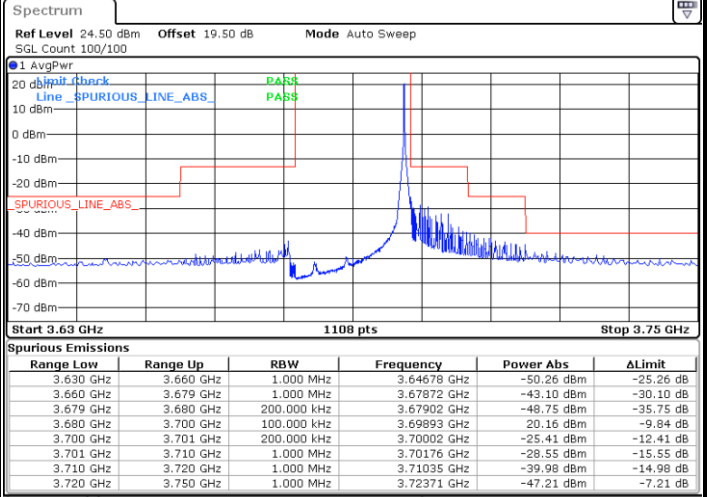
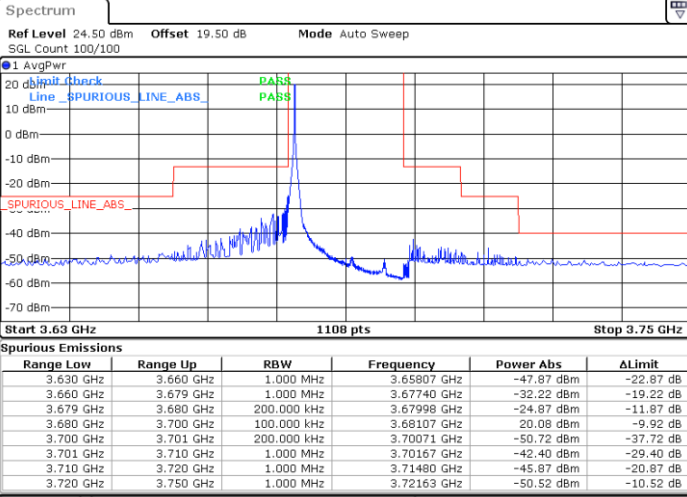


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

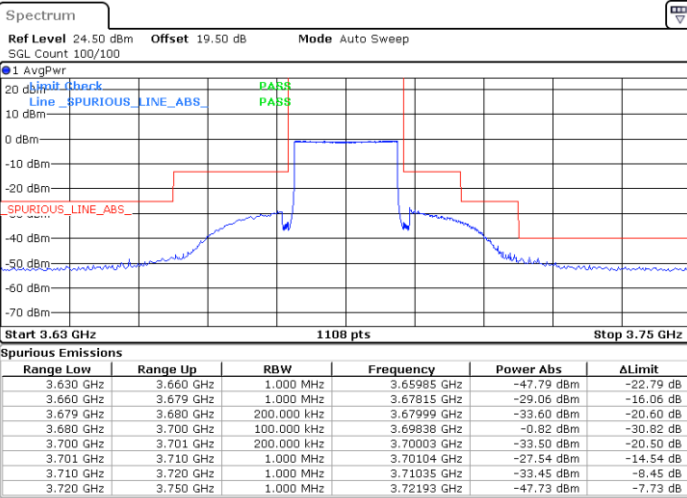


Date: 12.JUL.2024 12:06:00

Date: 12.JUL.2024 12:10:14

Highest Channel / FullRB

N/A



Date: 12.JUL.2024 12:14:29

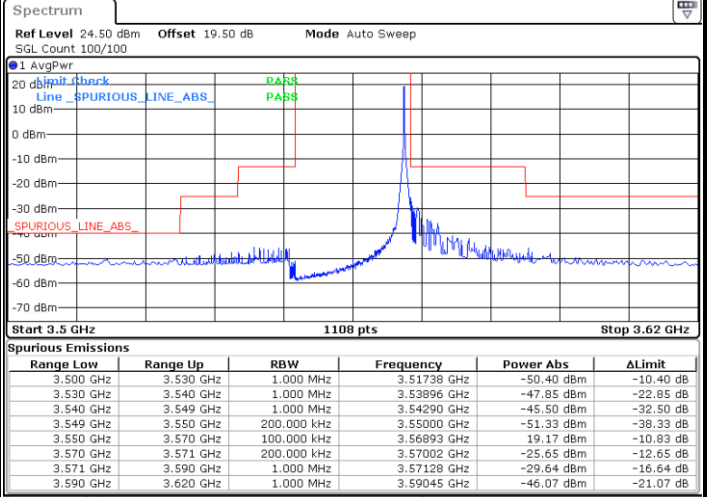
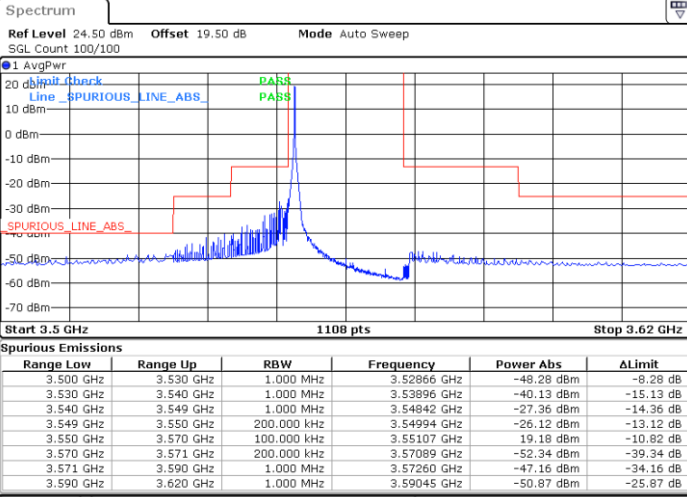


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

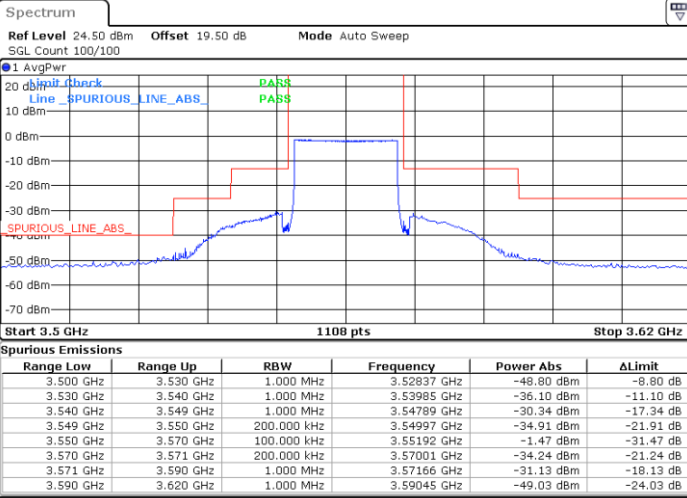


Date: 11.JUL.2024 16:52:41

Date: 11.JUL.2024 16:54:06

Lowest Channel / FullIRB

N/A



Date: 11.JUL.2024 17:01:11

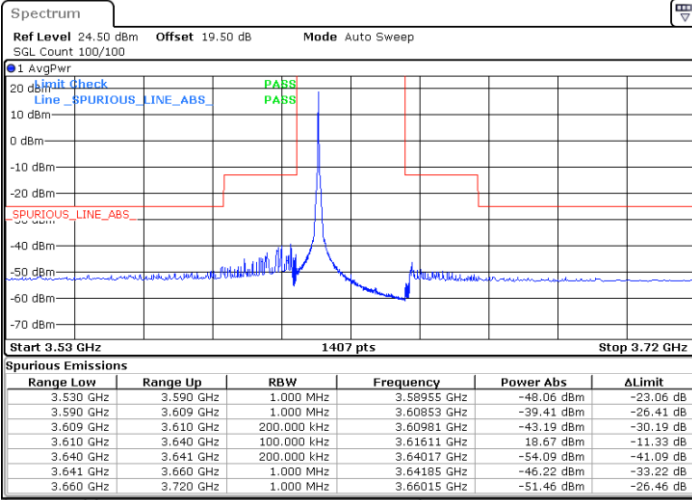


LTE Band 48 / 20MHz

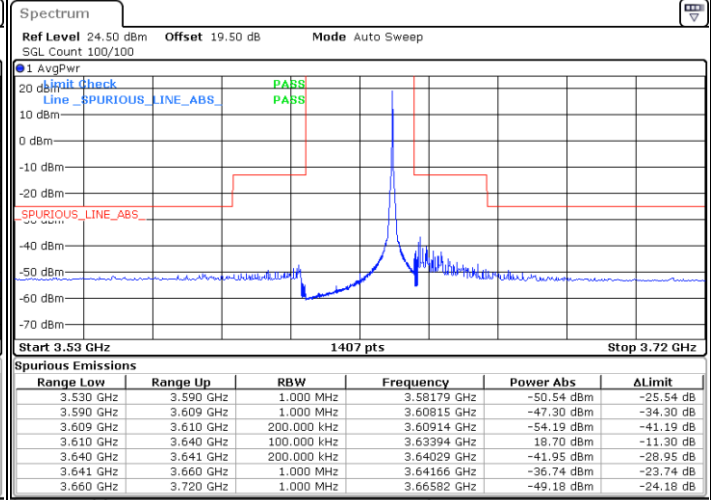
64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



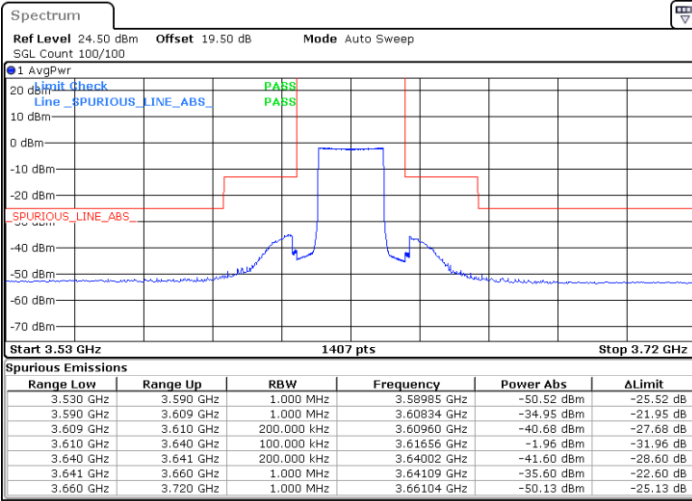
Date: 21.JUL.2024 19:32:53



Date: 21.JUL.2024 19:31:18

Middle Channel / FullRB

N/A



Date: 21.JUL.2024 19:22:00

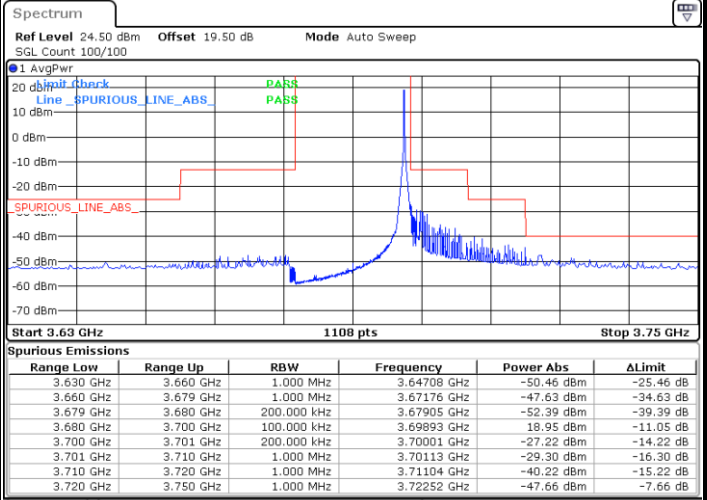
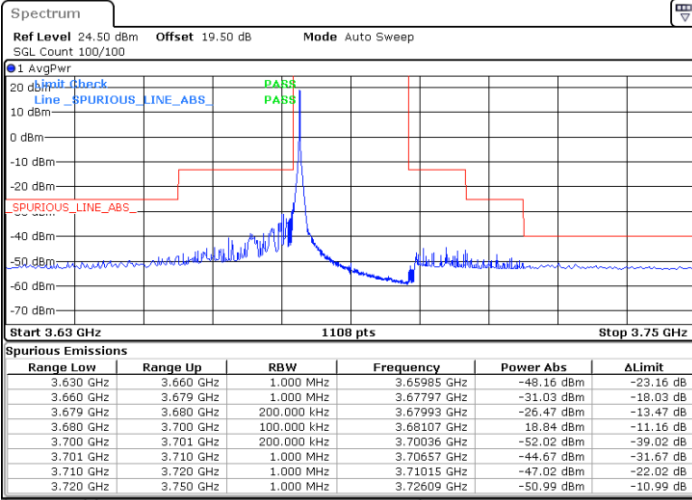


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

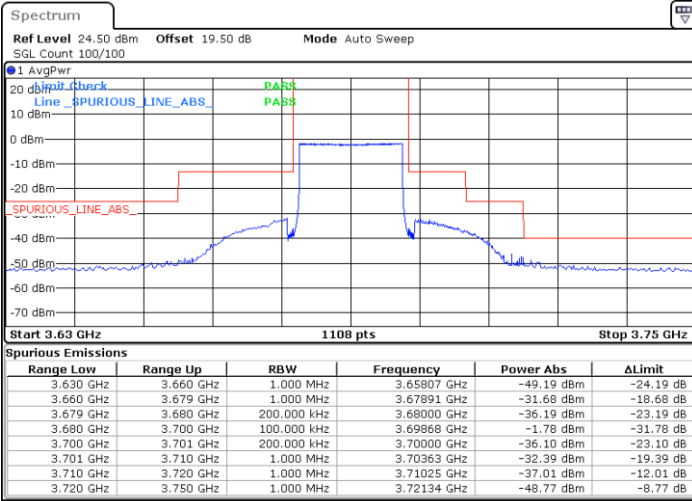


Date: 12.JUL.2024 12:07:25

Date: 12.JUL.2024 12:08:50

Highest Channel / FullRB

N/A



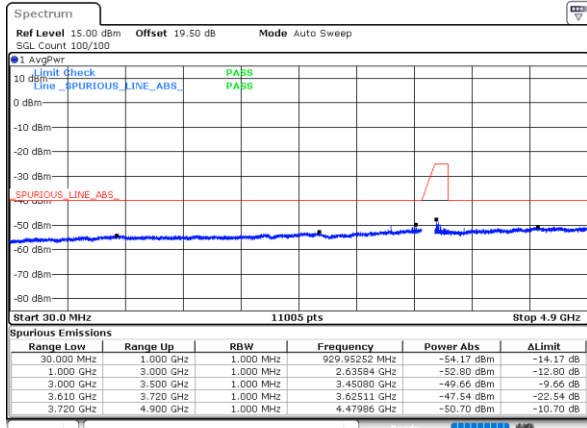
Date: 12.JUL.2024 12:15:53



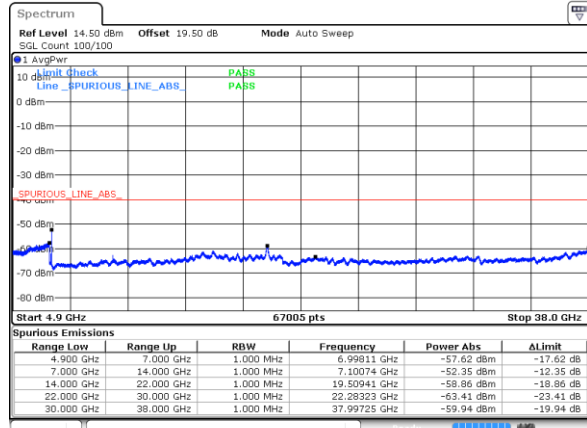
Conducted Spurious Emission

LTE Band 48 / 5MHz

Lowest Channel / QPSK

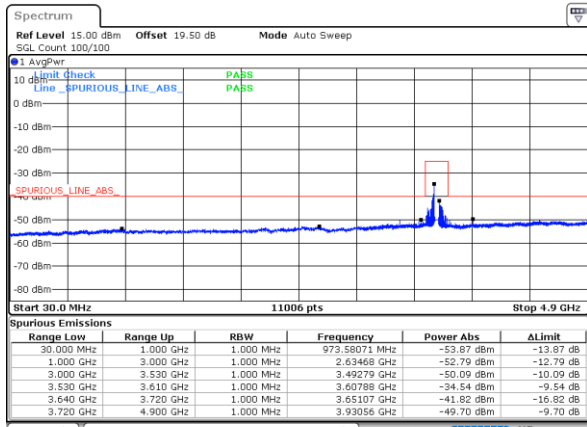


Date: 11.JUL.2024 13:41:07

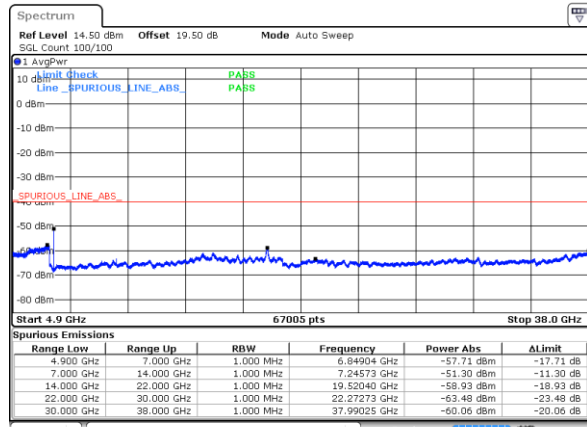


Date: 1.AUG.2024 15:35:45

Middle Channel / QPSK

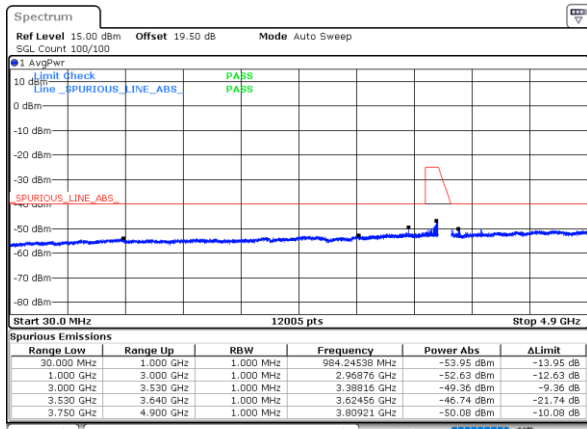


Date: 11.JUL.2024 14:01:00

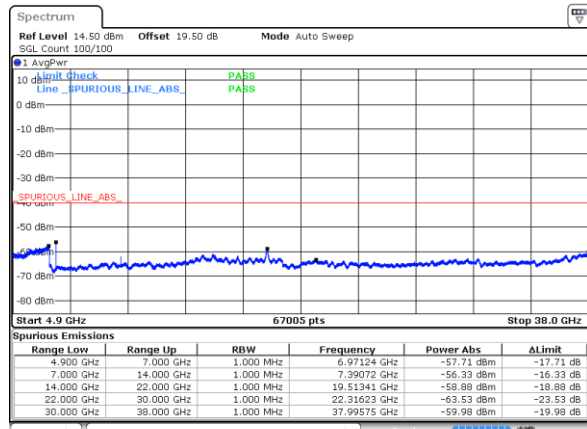


Date: 1.AUG.2024 15:37:10

Highest Channel / QPSK



Date: 11.JUL.2024 14:20:02

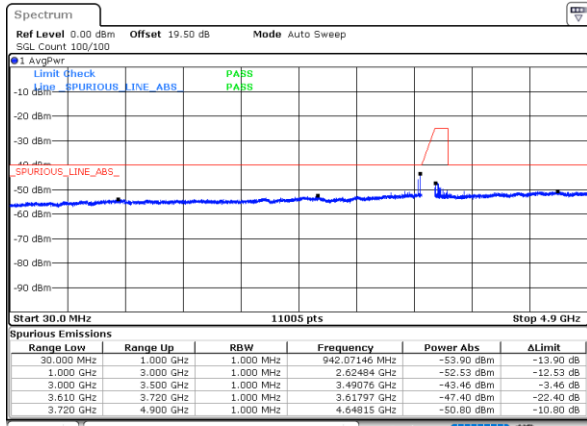


Date: 1.AUG.2024 15:38:36

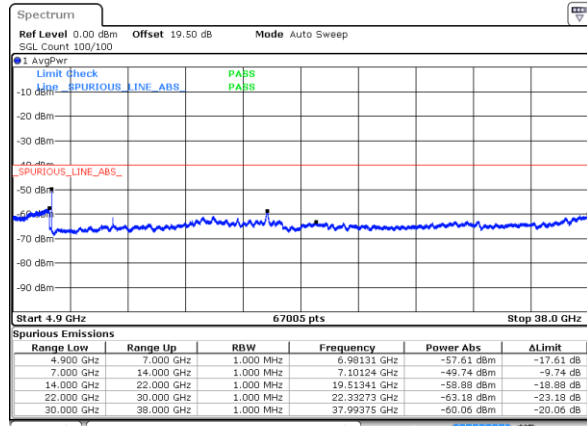


LTE Band 48 / 10MHz

Lowest Channel / QPSK

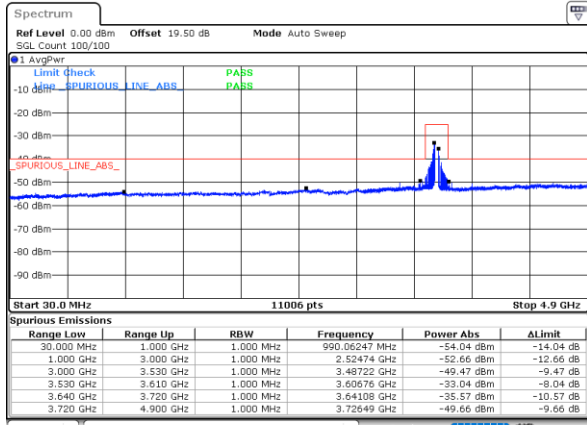


Date: 11. JUL. 2024 14:39:34

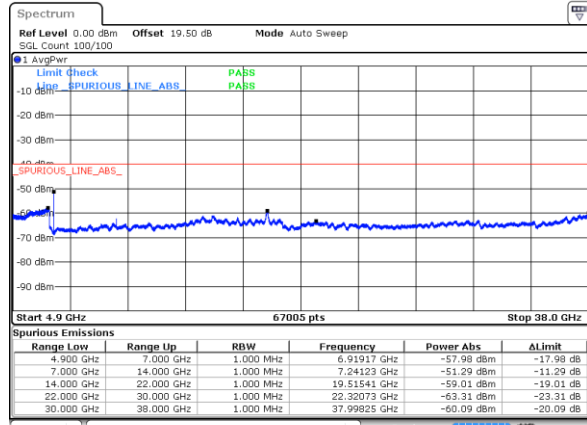


Date: 1.AUG 2024 15:40:46

Middle Channel / QPSK

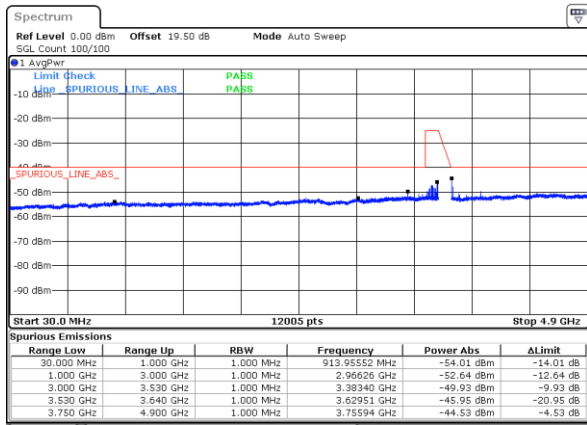


Date: 11. JUL. 2024 14:59:33

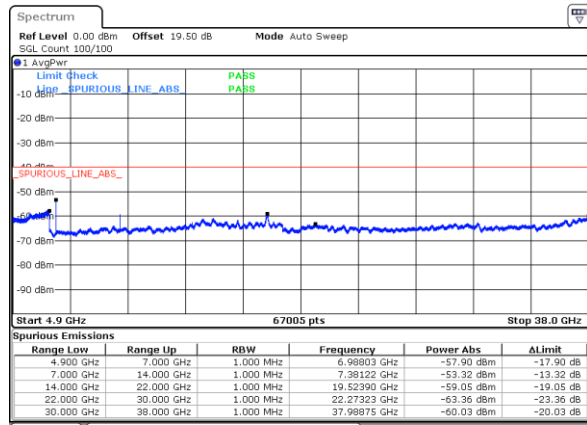


Date: 1.AUG 2024 15:42:17

Highest Channel / QPSK



Date: 11. JUL. 2024 15:18:24

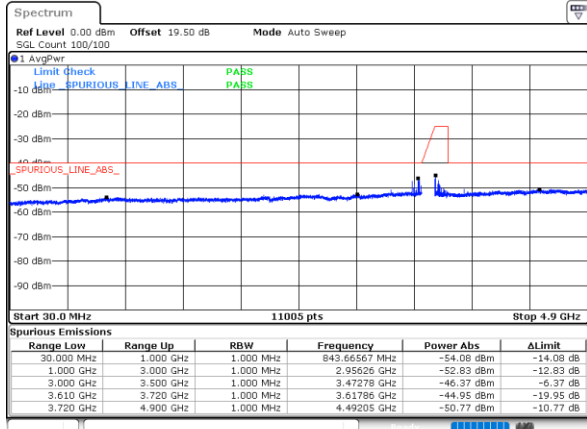


Date: 1.AUG 2024 15:43:40

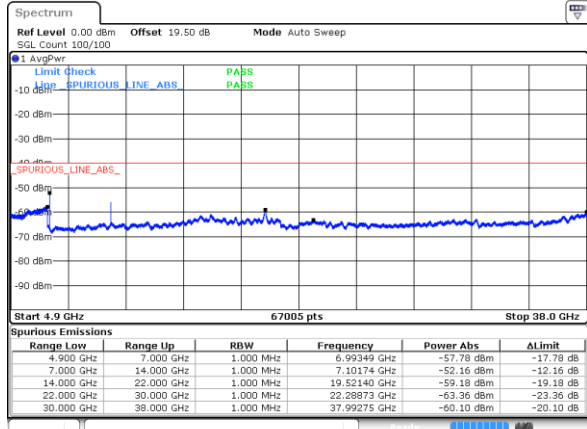


LTE Band 48 / 15MHz

Lowest Channel / QPSK

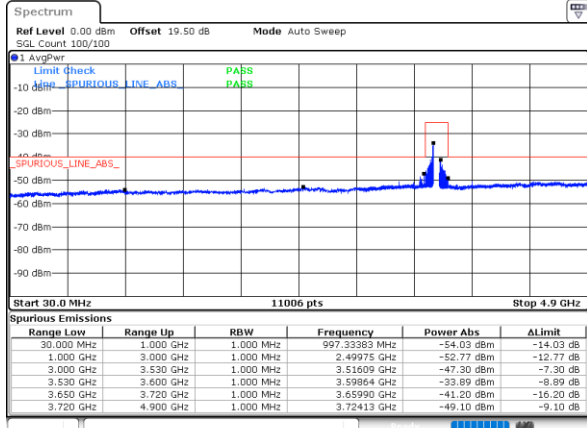


Date: 11.JUL.2024 15:38:21

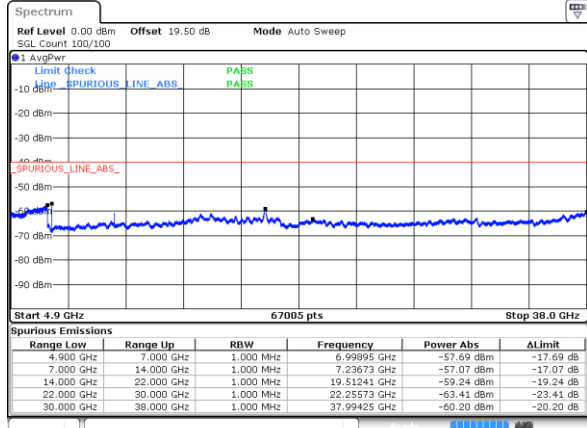


Date: 1.AUG.2024 15:45:46

Middle Channel / QPSK

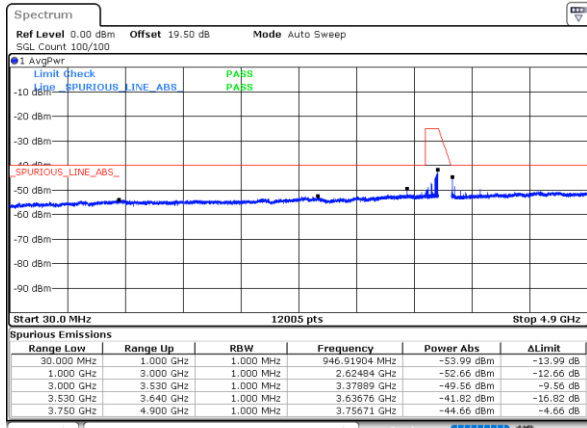


Date: 11.JUL.2024 16:20:28

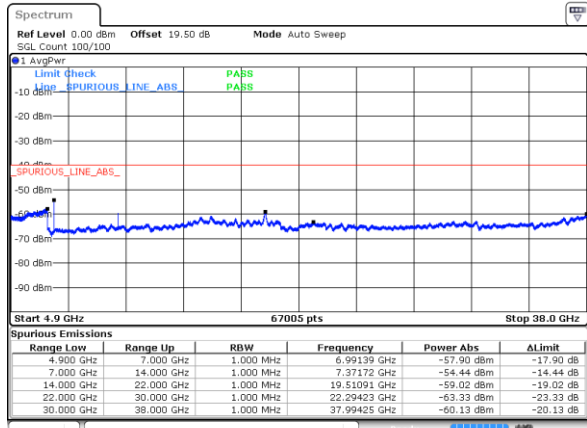


Date: 1.AUG.2024 15:47:07

Highest Channel / QPSK



Date: 11.JUL.2024 16:41:13

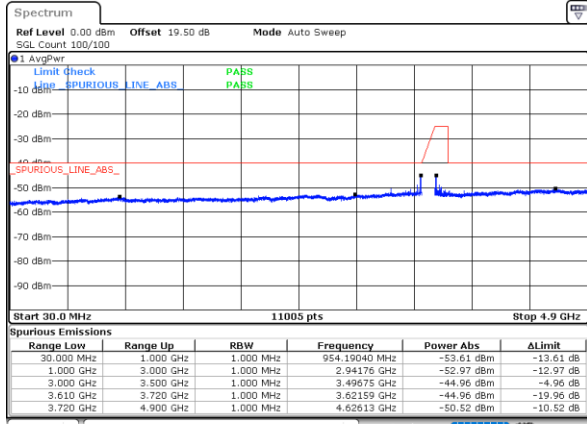


Date: 1.AUG.2024 15:48:41

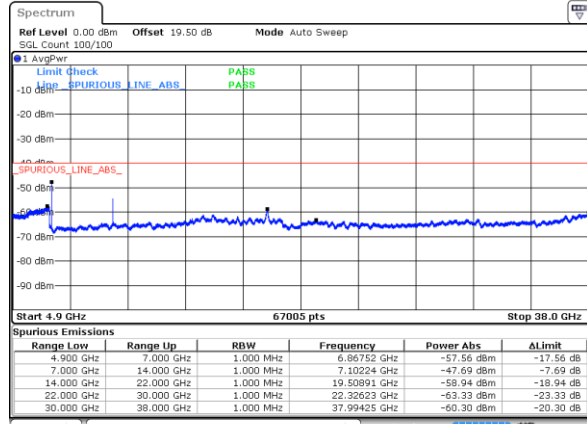


LTE Band 48 / 20MHz

Lowest Channel / QPSK

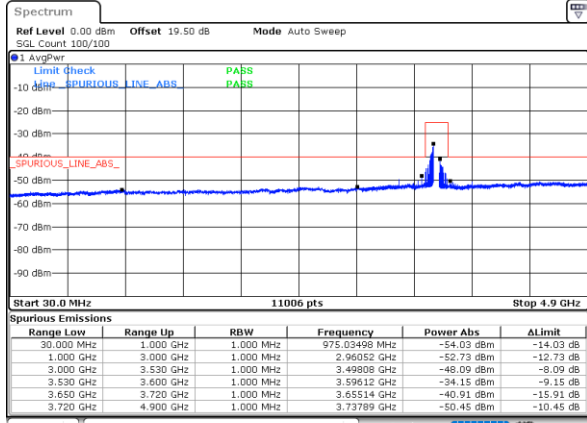


Date: 12. JUL. 2024 11:52:30

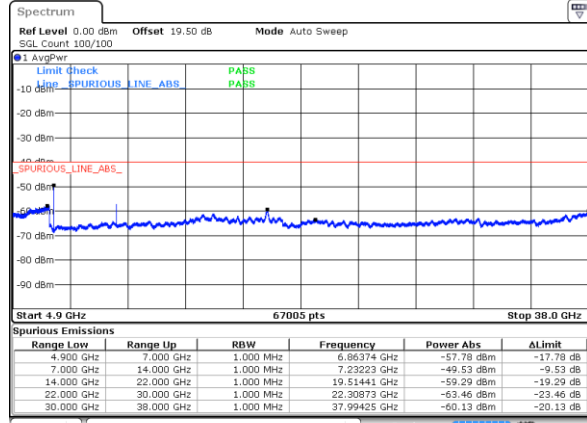


Date: 1.AUG 2024 15:51:23

Middle Channel / QPSK

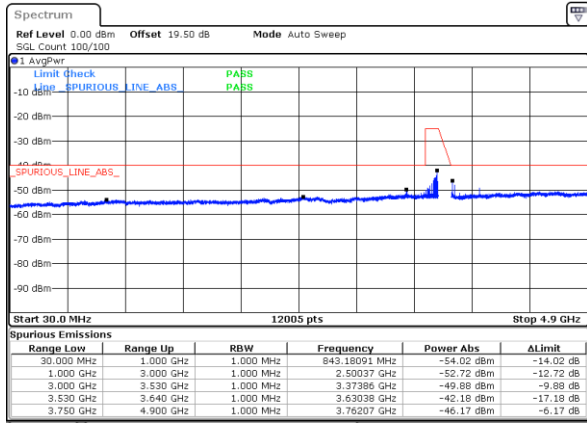


Date: 12. JUL. 2024 11:55:21

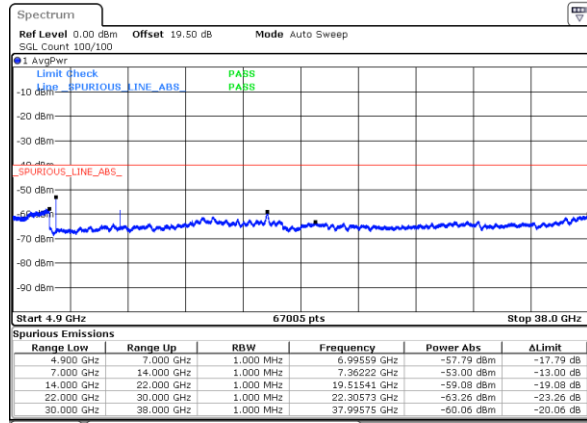


Date: 1.AUG 2024 15:53:01

Highest Channel / QPSK



Date: 12. JUL. 2024 12:17:10



Date: 1.AUG 2024 16:04:33



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0003	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0027	
20	Minimum Voltage	0.0005	

Note:

1. Normal Voltage = 3.85 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

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)
Lowest	7102.00	-49.84	-40	-9.84	-58.03	-53.17	8.25	11.58	H
	10653.00	-53.72	-40	-13.72	-66.60	-55.27	10.45	12.00	H
	14204.00	-53.79	-40	-13.79	-69.67	-55.50	11.74	13.45	H
	7102.00	-43.09	-40	-3.09	-52.44	-46.42	8.25	11.58	V
	10653.00	-51.05	-40	-11.05	-66.39	-52.60	10.45	12.00	V
	14204.00	-54.36	-40	-14.36	-69.63	-56.07	11.74	13.45	V
Middle	7232.00	-52.21	-40	-12.21	-60.89	-55.51	8.30	11.60	H
	10848.00	-51.88	-40	-11.88	-65.59	-53.40	10.48	12.00	H
	14464.00	-53.73	-40	-13.73	-69.95	-55.43	11.80	13.50	H
	7232.00	-50.65	-40	-10.65	-61.06	-53.95	8.30	11.60	V
	10848.00	-51.52	-40	-11.52	-66.85	-53.04	10.48	12.00	V
	14464.00	-54.01	-40	-14.01	-69.82	-55.71	11.80	13.50	V
Highest	7362.00	-51.81	-40	-11.81	-60.72	-55.11	8.32	11.62	H
	11043.00	-46.95	-40	-6.95	-61.33	-48.63	10.52	12.20	H
	14724.00	-52.66	-40	-12.66	-69.50	-54.36	11.85	13.55	H
	7362.00	-51.46	-40	-11.46	-60.73	-54.76	8.32	11.62	V
	11043.00	-49.09	-40	-9.09	-64.82	-50.77	10.52	12.20	V
	14724.00	-52.81	-40	-12.81	-69.74	-54.51	11.85	13.55	V

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