

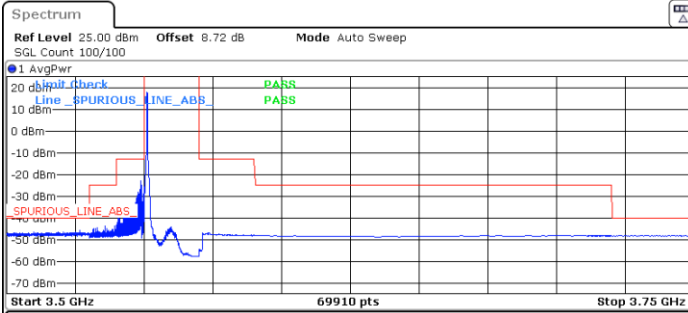


LTE Band 48 / 20MHz

64QAM

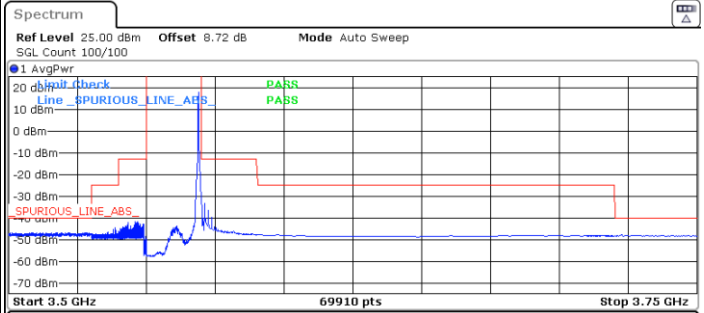
Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52669 GHz	-45.81 dBm	-5.81 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53565 GHz	-43.63 dBm	-18.63 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54888 GHz	-23.04 dBm	-10.04 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.55000 GHz	-25.66 dBm	-12.66 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55107 GHz	17.61 dBm	-12.39 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57031 GHz	-54.50 dBm	-41.50 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57298 GHz	-46.89 dBm	-33.89 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59059 GHz	-48.10 dBm	-23.10 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71262 GHz	-48.07 dBm	-23.07 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.73441 GHz	-48.08 dBm	-8.08 dB

Date: 13.APR.2023 03:06:07

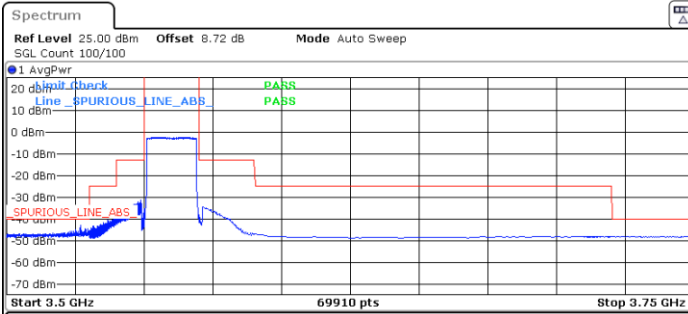


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.51143 GHz	-46.85 dBm	-6.85 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.53857 GHz	-44.69 dBm	-19.69 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54683 GHz	-41.63 dBm	-28.63 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54977 GHz	-48.75 dBm	-35.75 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.56893 GHz	17.94 dBm	-12.06 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57000 GHz	-30.68 dBm	-17.68 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57109 GHz	-33.38 dBm	-20.38 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59059 GHz	-47.80 dBm	-22.80 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71599 GHz	-48.08 dBm	-23.08 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72252 GHz	-47.91 dBm	-7.91 dB

Date: 13.APR.2023 03:12:51

Lowest Channel / FullIRB

N/A



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.500 GHz	3.530 GHz	1.000 MHz	3.52702 GHz	-43.14 dBm	-3.14 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.54000 GHz	-39.63 dBm	-14.63 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.54887 GHz	-31.23 dBm	-18.23 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.54997 GHz	-35.22 dBm	-22.22 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.55606 GHz	-2.61 dBm	-32.61 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.57005 GHz	-38.35 dBm	-25.35 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.57109 GHz	-34.73 dBm	-21.73 dB
3.590 GHz	3.710 GHz	1.000 MHz	3.59059 GHz	-46.83 dBm	-21.83 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.71490 GHz	-48.09 dBm	-23.09 dB
3.720 GHz	3.750 GHz	1.000 MHz	3.72104 GHz	-48.01 dBm	-8.01 dB

Date: 13.APR.2023 03:19:37

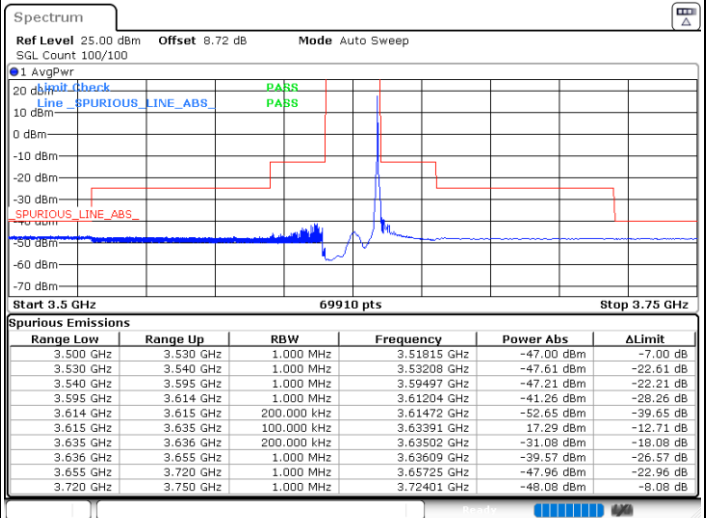
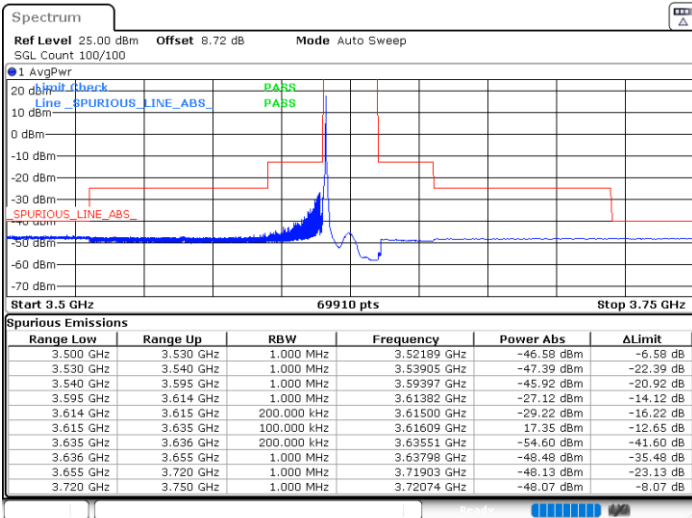


LTE Band 48 / 20MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

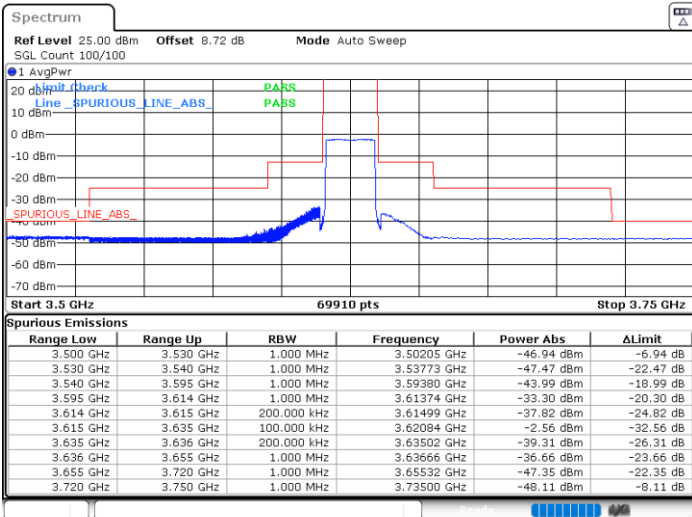


Date: 13.APR.2023 03:33:37

Date: 13.APR.2023 03:40:18

Middle Channel / Full

N/A



Date: 13.APR.2023 03:47:00

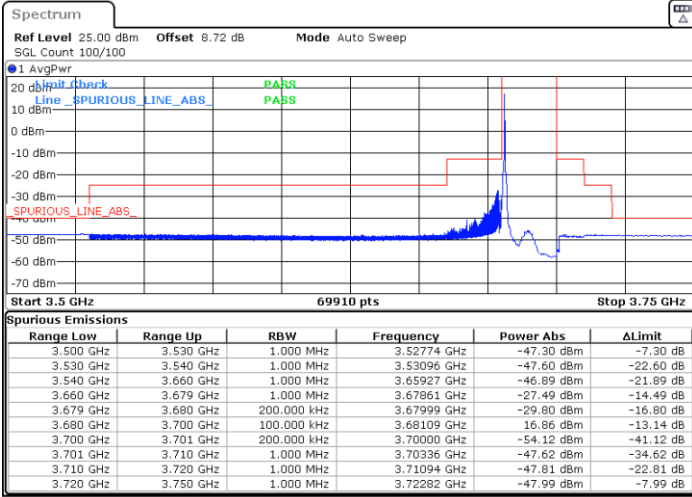


LTE Band 48 / 20MHz

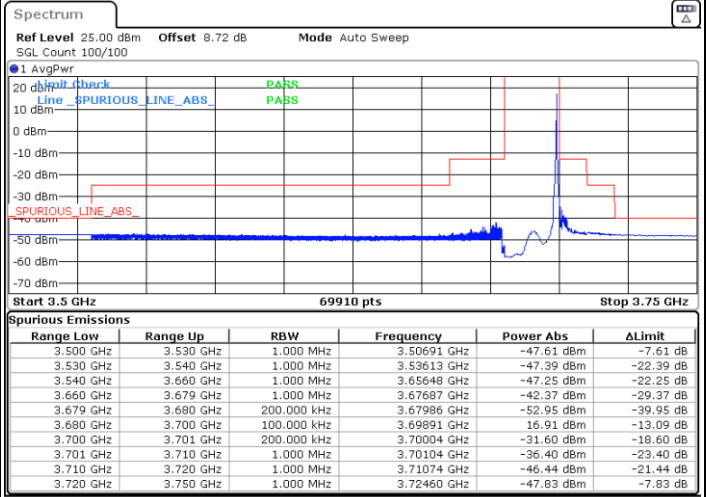
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



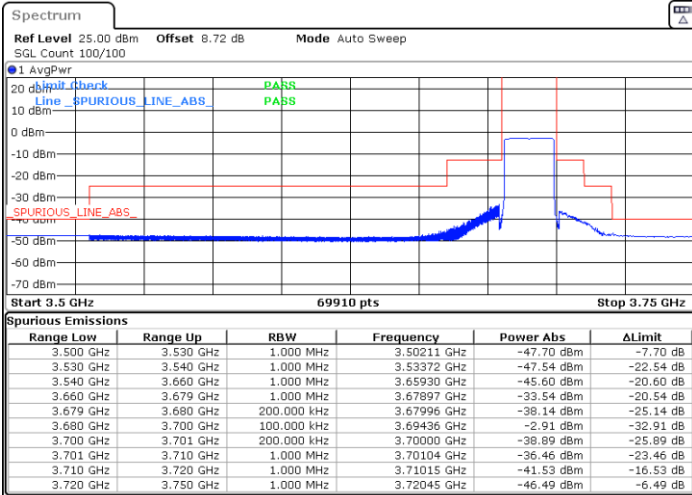
Date: 13.APR.2023 03:59:37



Date: 13.APR.2023 04:06:21

Highest Channel / FullIRB

N/A



Date: 13.APR.2023 04:13:05

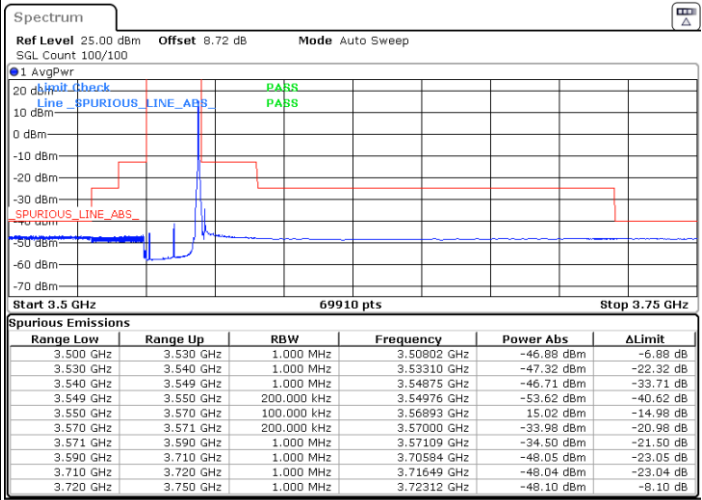
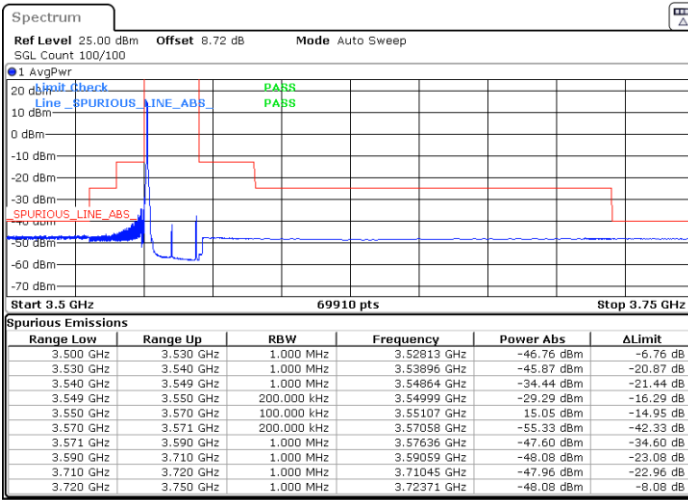


LTE Band 48 / 20MHz

256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

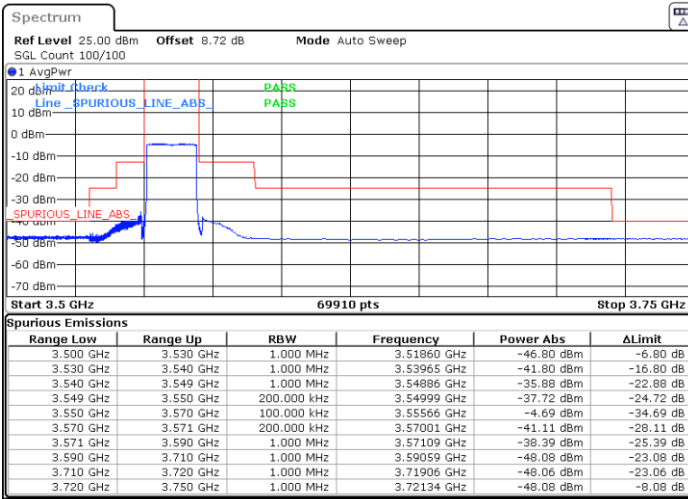


Date: 13.APR.2023 03:07:48

Date: 13.APR.2023 03:14:32

Lowest Channel / FullIRB

N/A



Date: 13.APR.2023 03:21:18

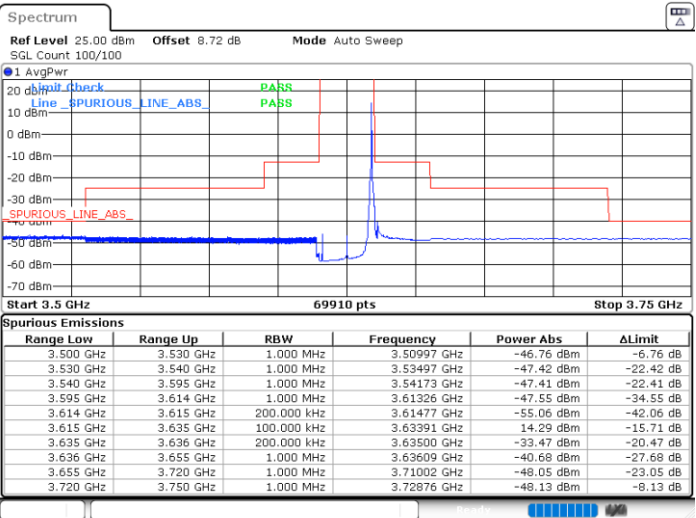
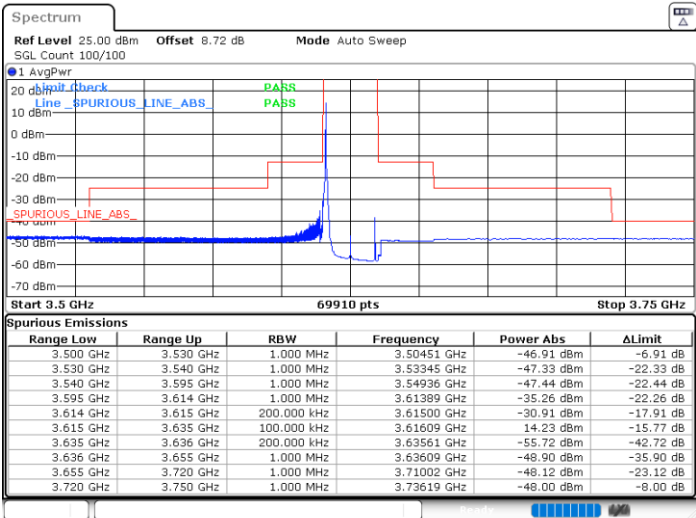


LTE Band 48 / 20MHz

256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

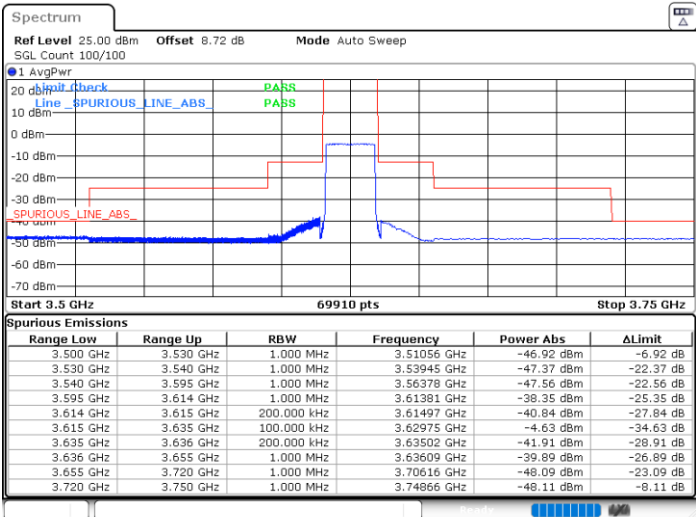


Date: 13.APR.2023 03:35:17

Date: 13.APR.2023 03:41:59

Middle Channel / Full

N/A



Date: 13.APR.2023 03:48:40

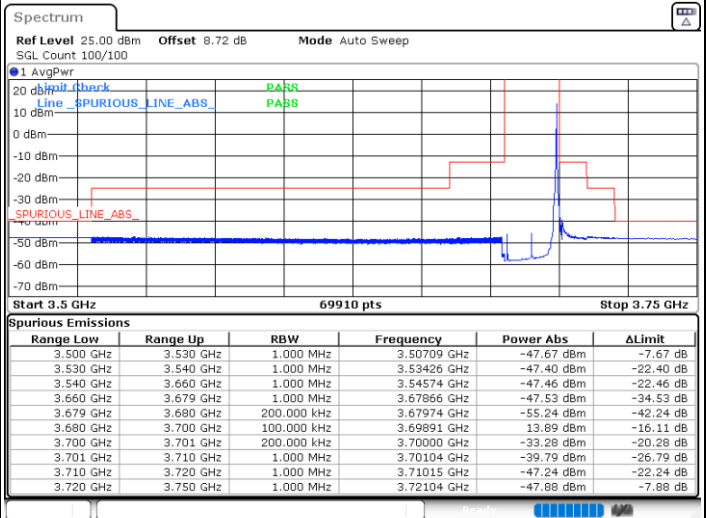
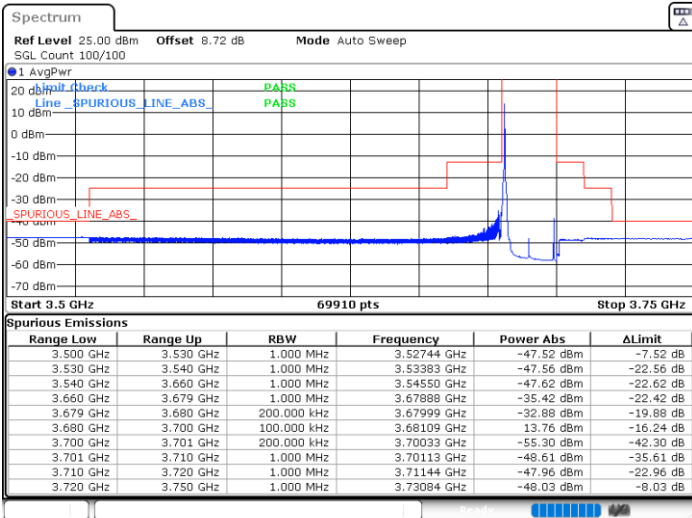


LTE Band 48 / 20MHz

256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

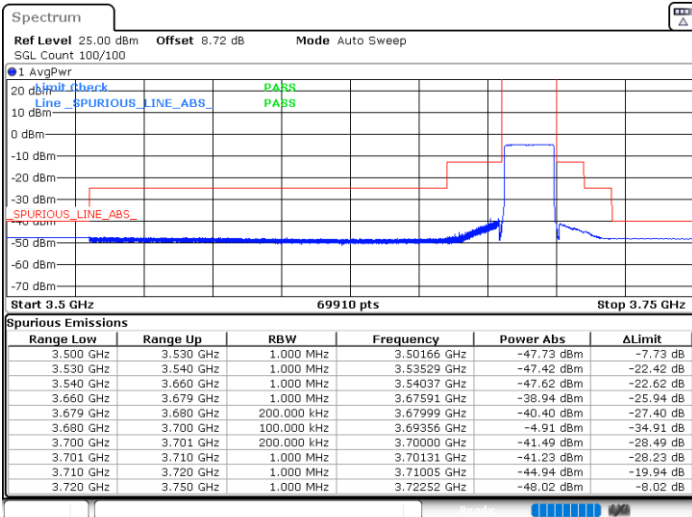


Date: 13.APR.2023 04:01:18

Date: 13.APR.2023 04:08:02

Highest Channel / FullIRB

N/A



Date: 13.APR.2023 04:14:46



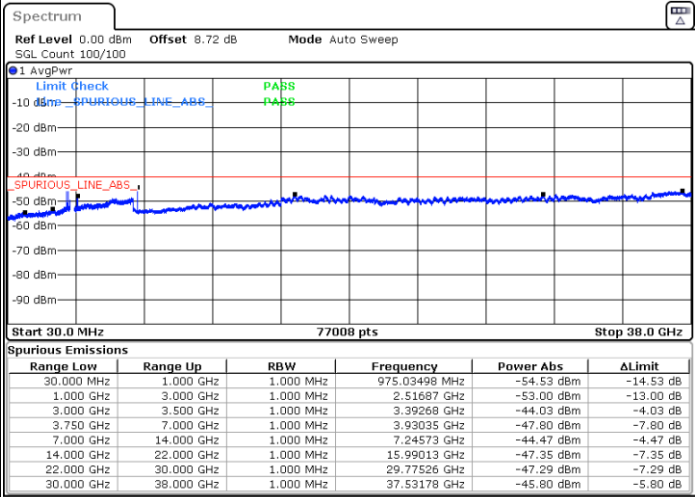
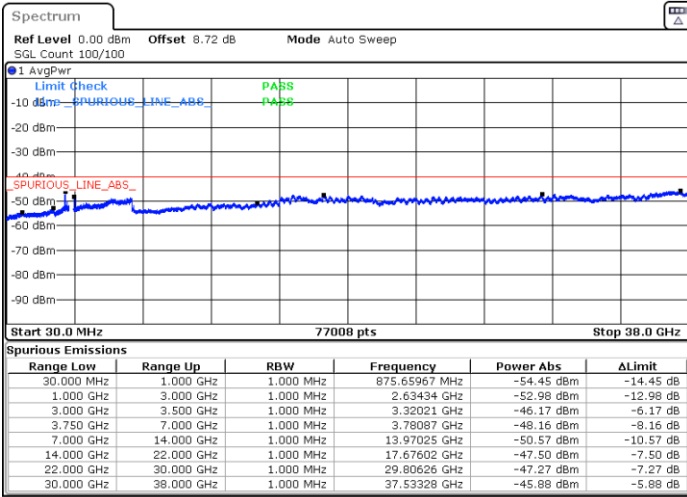
Conducted Spurious Emission

LTE Band 48 / 5MHz

QPSK / 1RB0

Lowest Channel

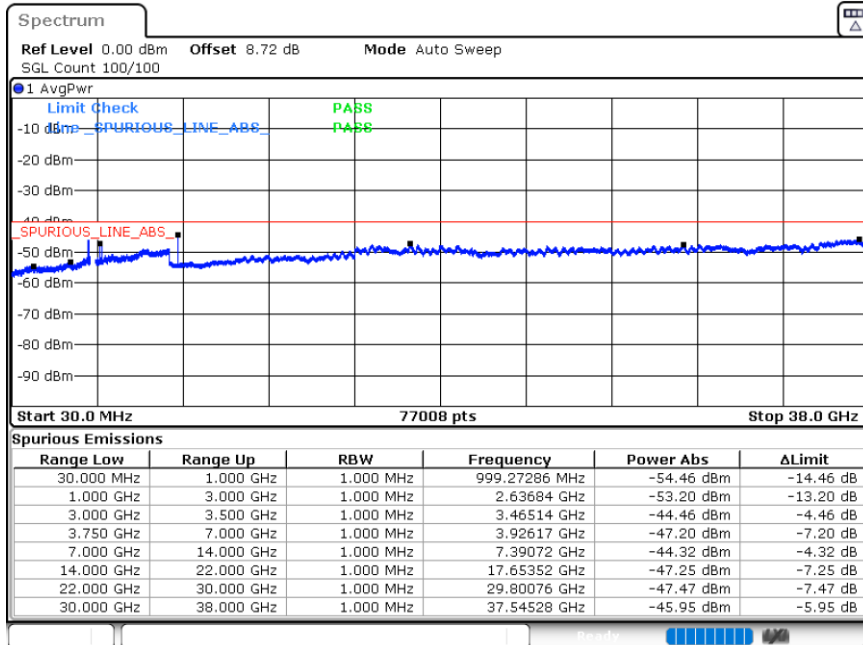
Middle Channel



Date: 13.APR.2023 04:18:38

Date: 13.APR.2023 04:20:07

Highest Channel



Date: 13.APR.2023 04:21:37

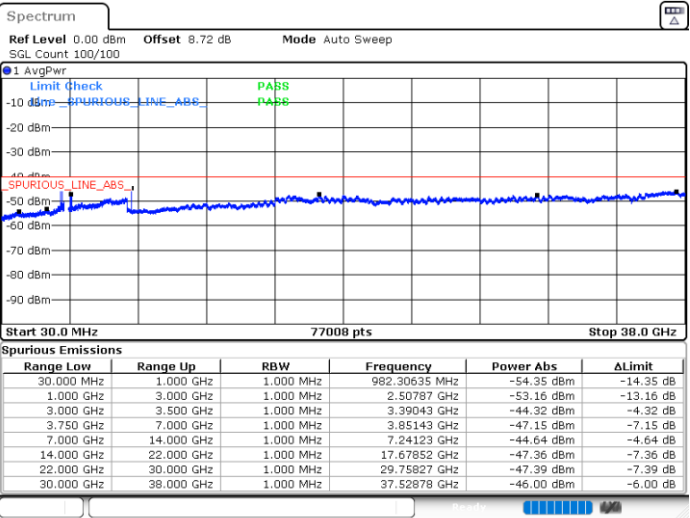
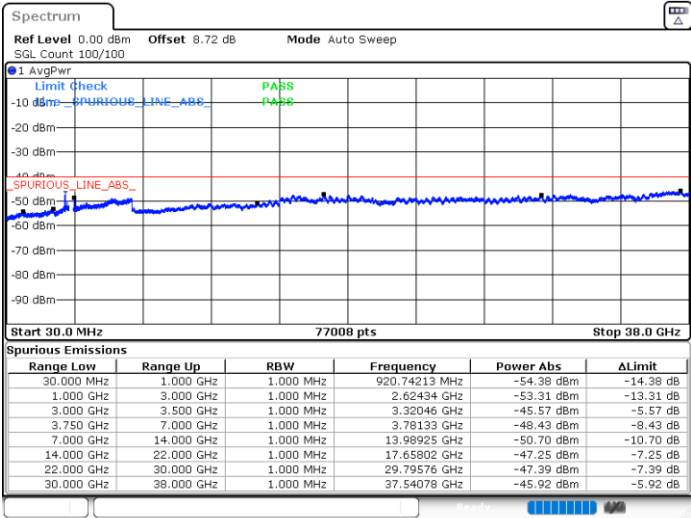


LTE Band 48 / 10MHz

QPSK / 1RB0

Lowest Channel

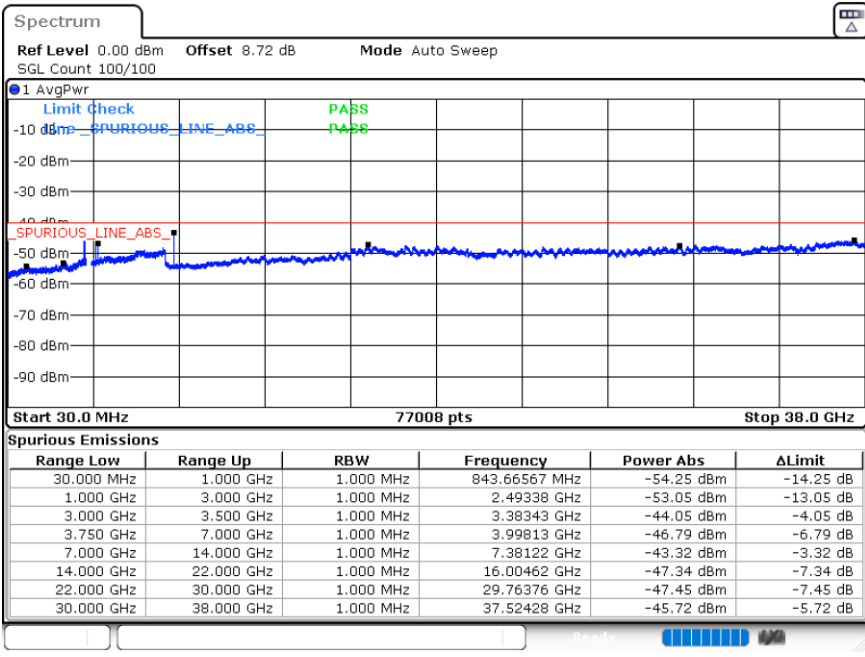
Middle Channel



Date: 13.APR.2023 04:23:09

Date: 13.APR.2023 04:24:38

Highest Channel



Date: 13.APR.2023 04:26:08

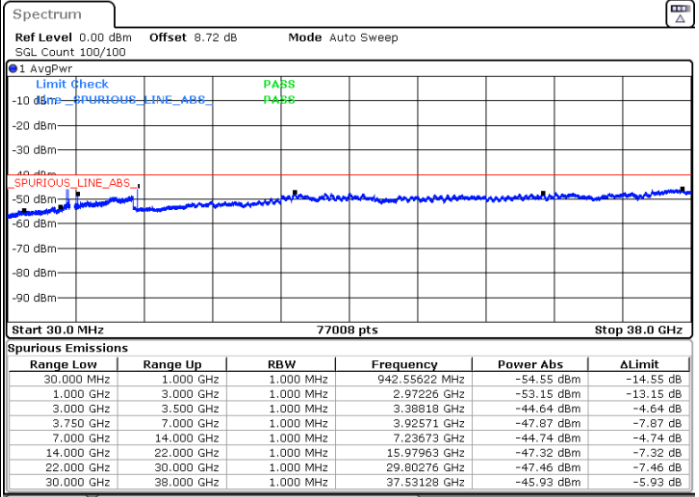
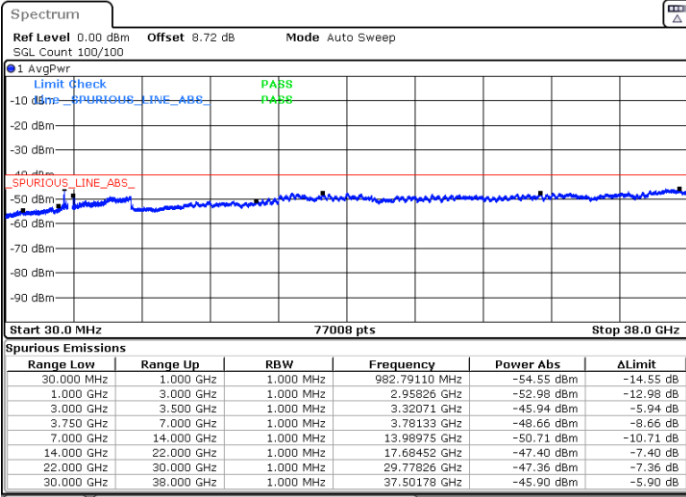


LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

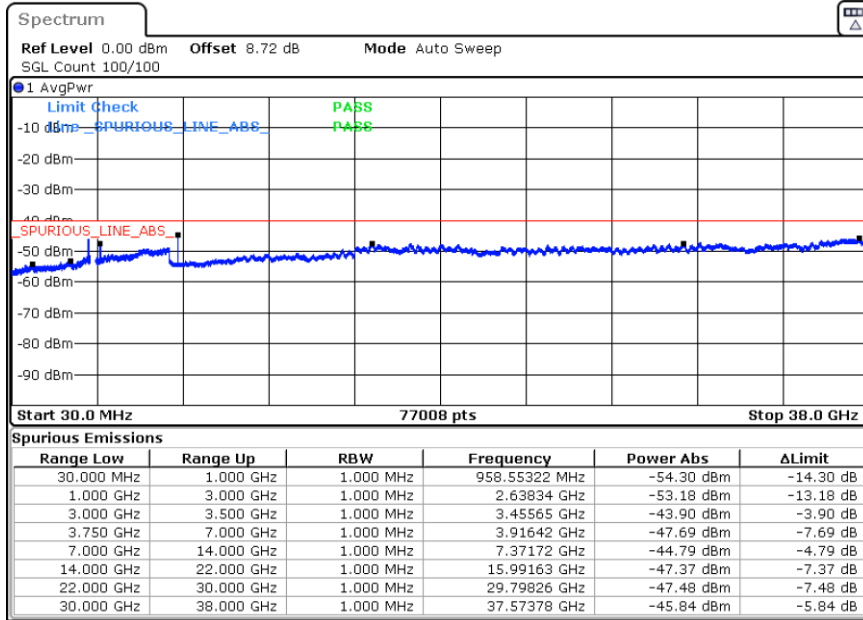
Middle Channel



Date: 13.APR.2023 04:27:40

Date: 13.APR.2023 04:29:10

Highest Channel



Date: 13.APR.2023 04:30:39

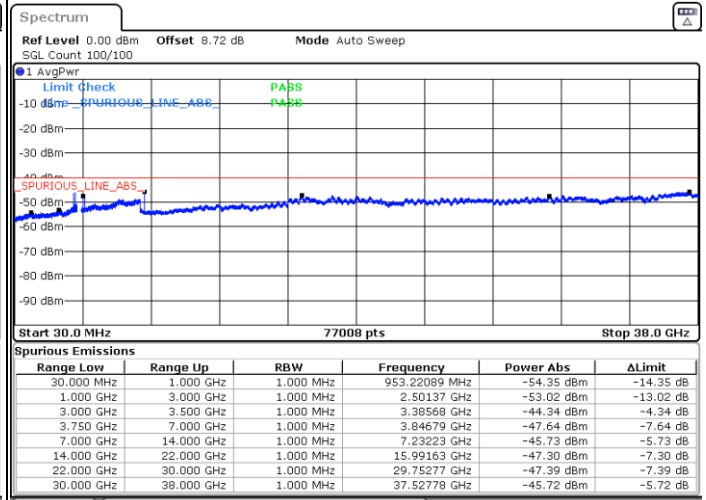
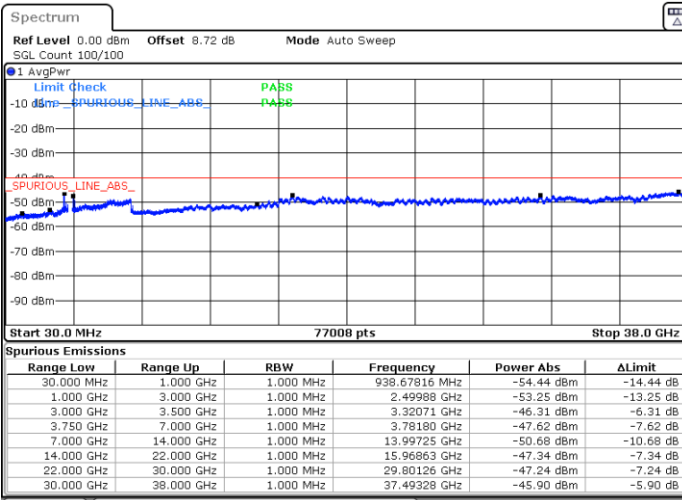


LTE Band 48 / 20MHz

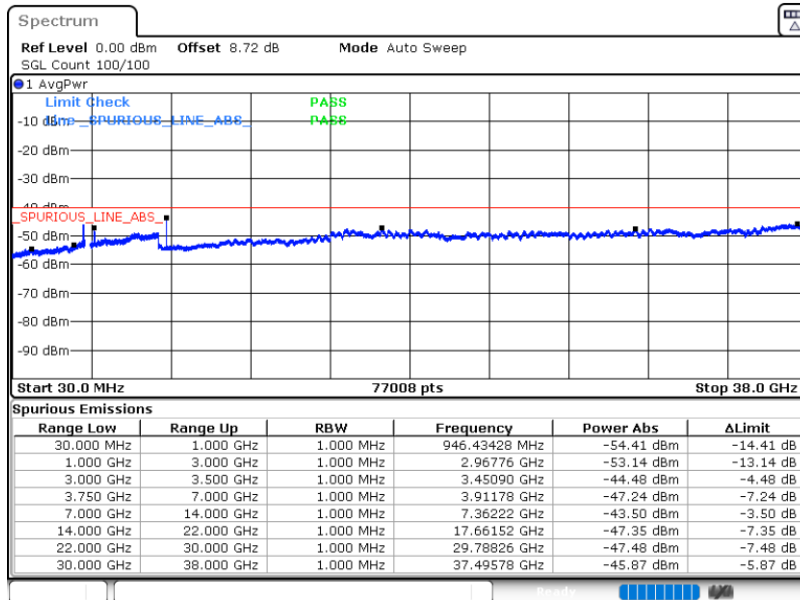
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	23~25°C
		Relative Humidity :	41~42%

LTE Band 48 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7104	-62.80	-40	-22.80	-74.26	2.84	14.30	H
	10656	-58.61	-40	-18.61	-68.55	3.49	13.43	H
	14208	-59.76	-40	-19.76	-70.00	3.85	14.09	H
	7104	-60.04	-40	-20.04	-71.50	2.84	14.30	V
	10656	-57.14	-40	-17.14	-67.08	3.49	13.43	V
	14208	-60.12	-40	-20.12	-70.36	3.85	14.09	V
Middle	7230	-58.99	-40	-18.99	-70.45	2.84	14.30	H
	10848	-47.17	-40	-7.17	-57.11	3.49	13.43	H
	14646	-62.90	-40	-22.90	-73.14	3.85	14.09	H
	7230	-56.50	-40	-16.50	-67.96	2.84	14.30	V
	10848	-43.50	-40	-3.50	-53.44	3.49	13.43	V
	14646	-62.40	-40	-22.40	-72.64	3.85	14.09	V
Highest	7356	-52.28	-40	-12.28	-63.74	2.84	14.30	H
	11040	-54.54	-40	-14.54	-64.48	3.49	13.43	H
	14724	-60.10	-40	-20.10	-70.34	3.85	14.09	H
	7356	-50.85	-40	-10.85	-62.31	2.84	14.30	V
	11040	-52.66	-40	-12.66	-62.60	3.49	13.43	V
	14724	-60.18	-40	-20.18	-70.42	3.85	14.09	V

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