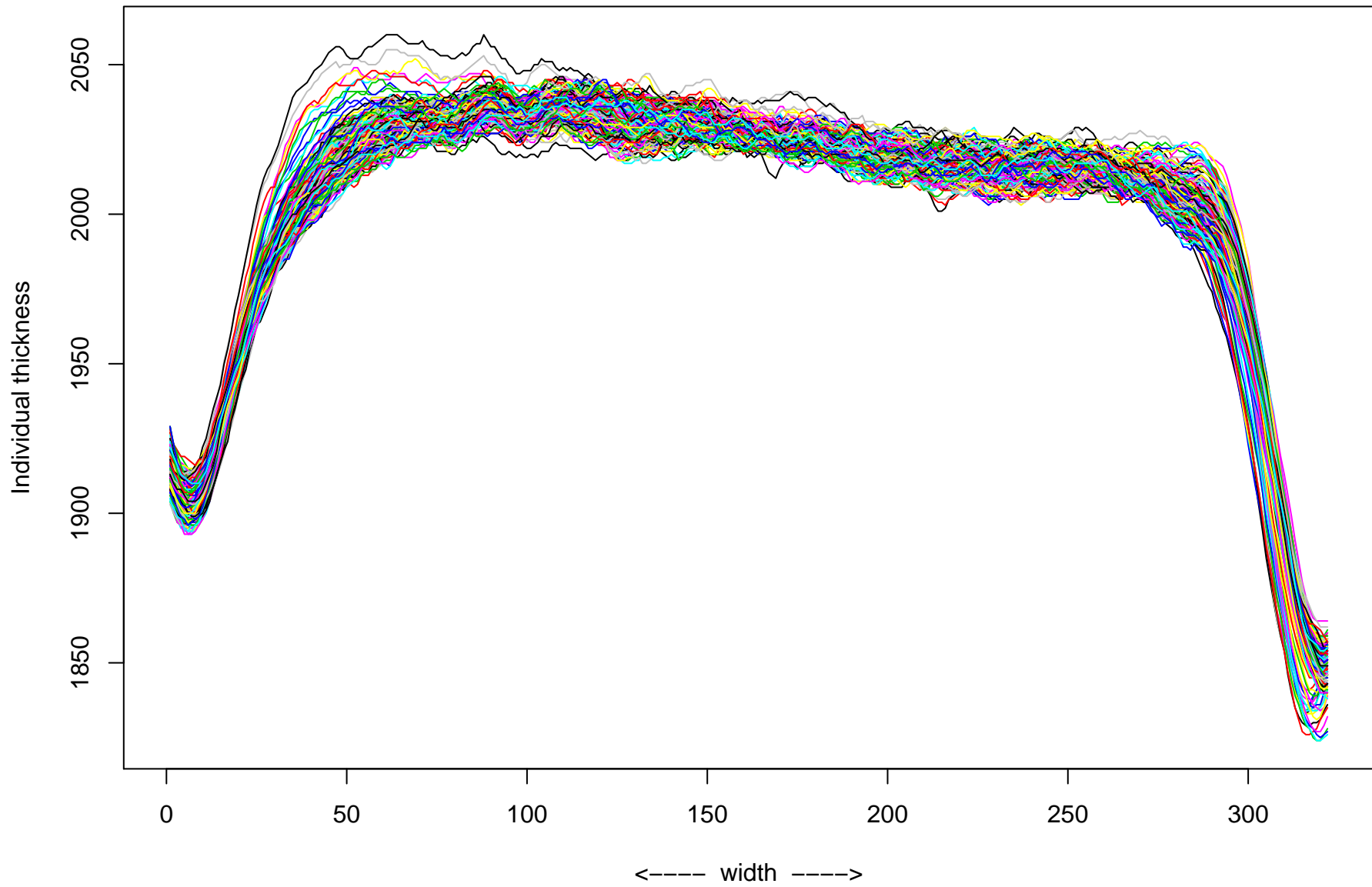
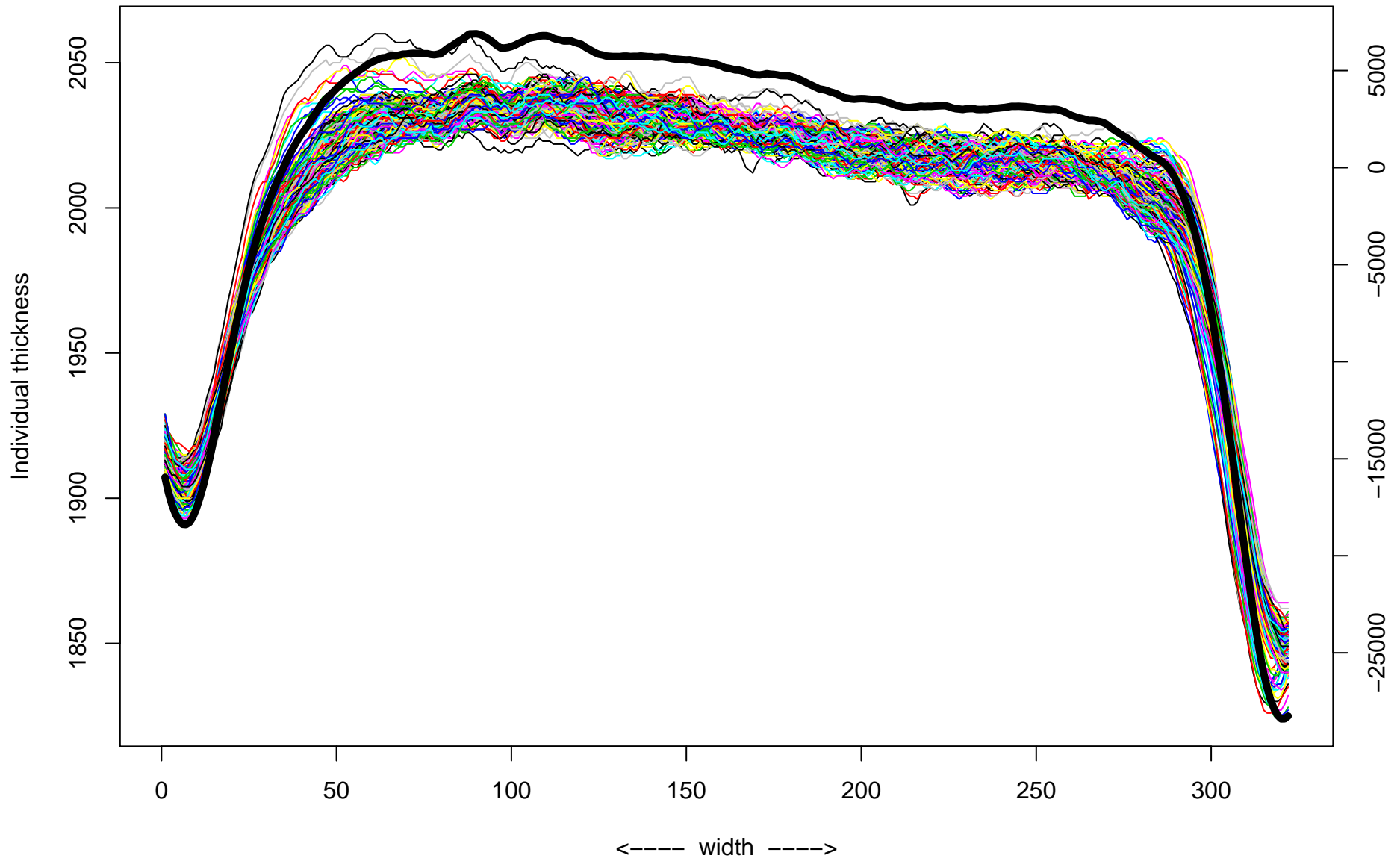


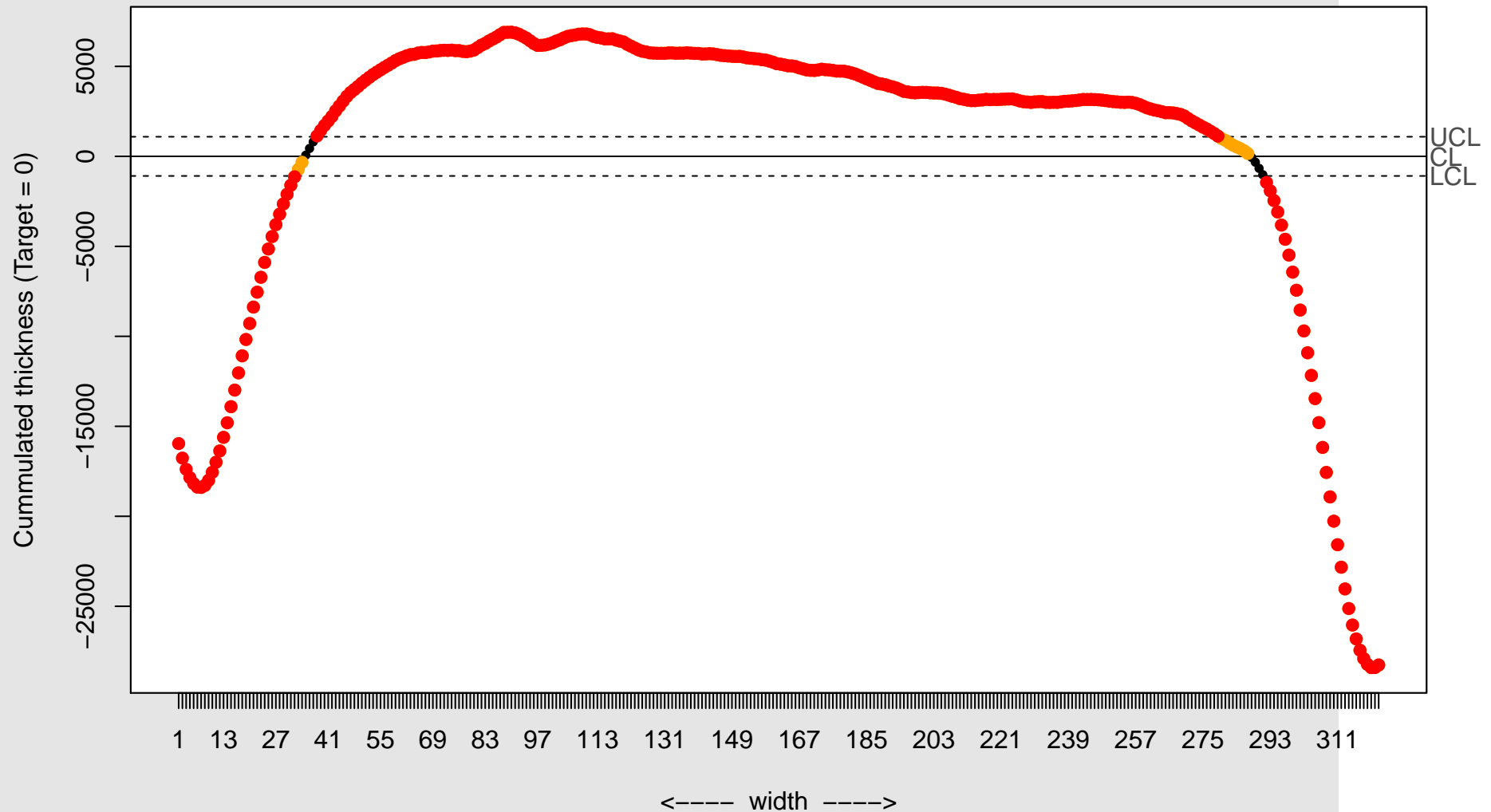
Individual thickness only



Simulated thickness



Simulated thickness



Number of groups = 322

Center = 0

StdDev = 181.4697

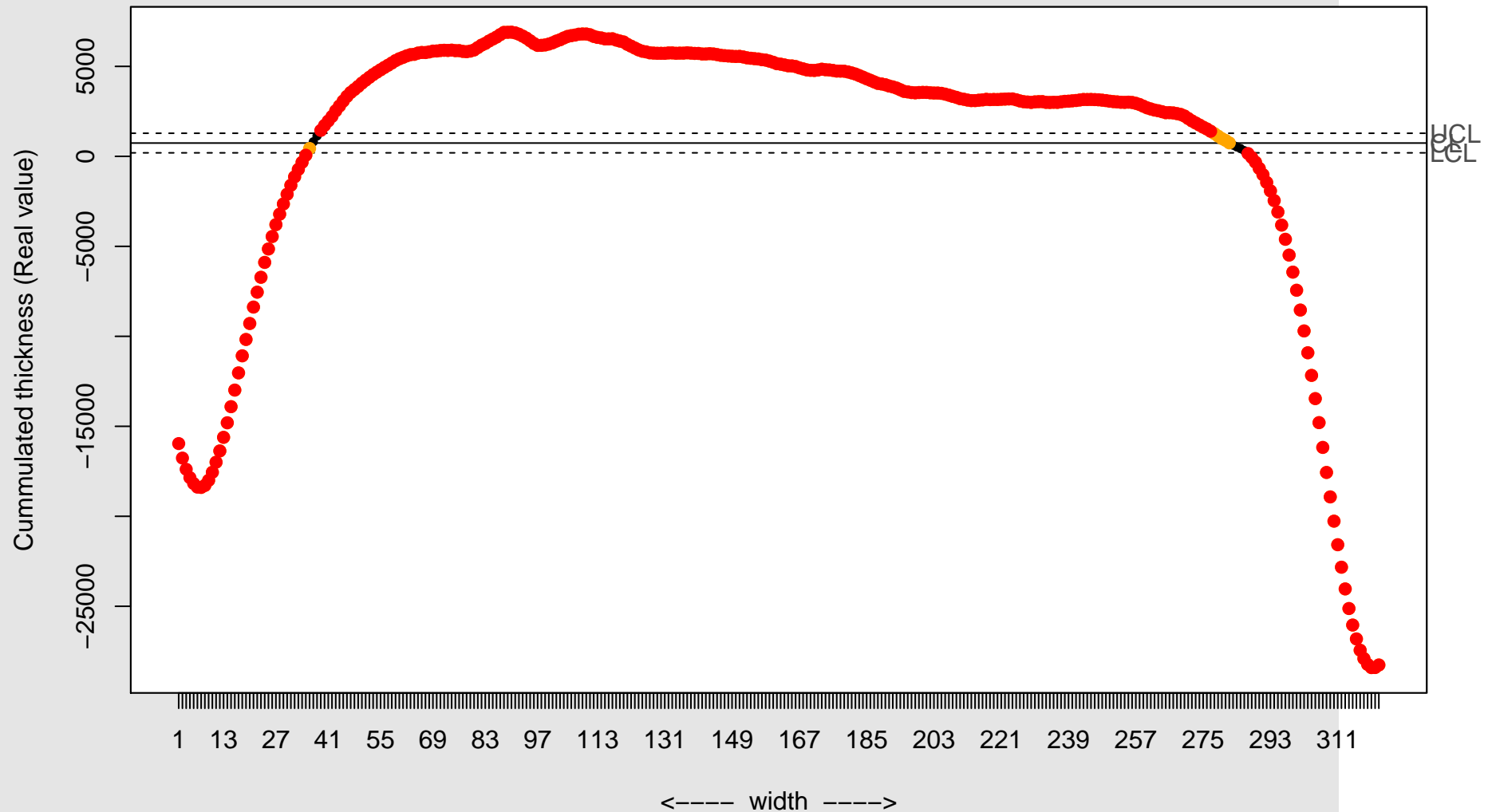
LCL = -1088.818

UCL = 1088.818

Number beyond limits = 305

Number violating runs = 304

Simulated thickness: Cpk is -0.02893 and z is -1.587 .

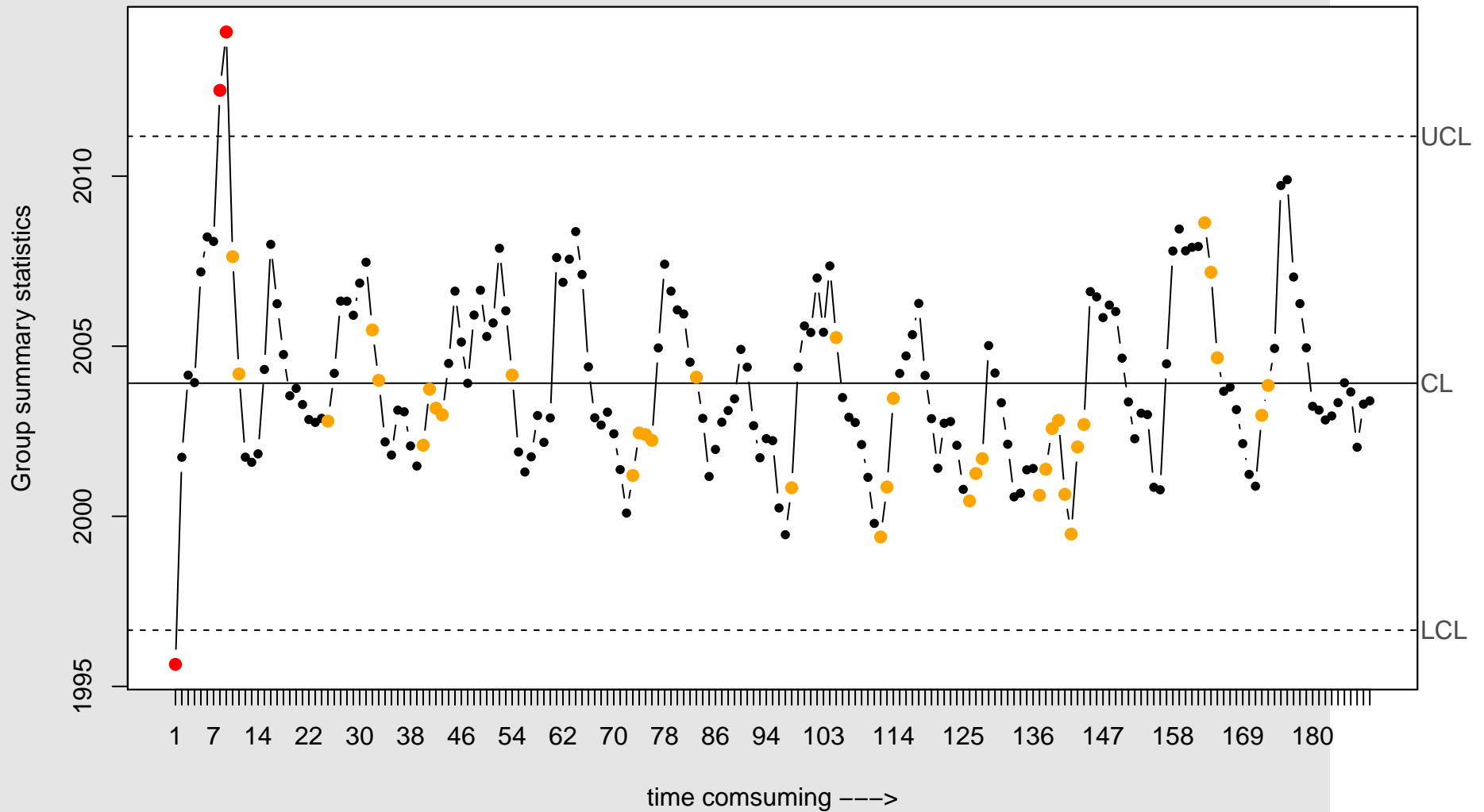


Number of groups = 322
Center = 739.5031
StdDev = 181.4697

LCL = 195.094
UCL = 1283.912

Number beyond limits = 310
Number violating runs = 304

X-bar chart for a given dataset

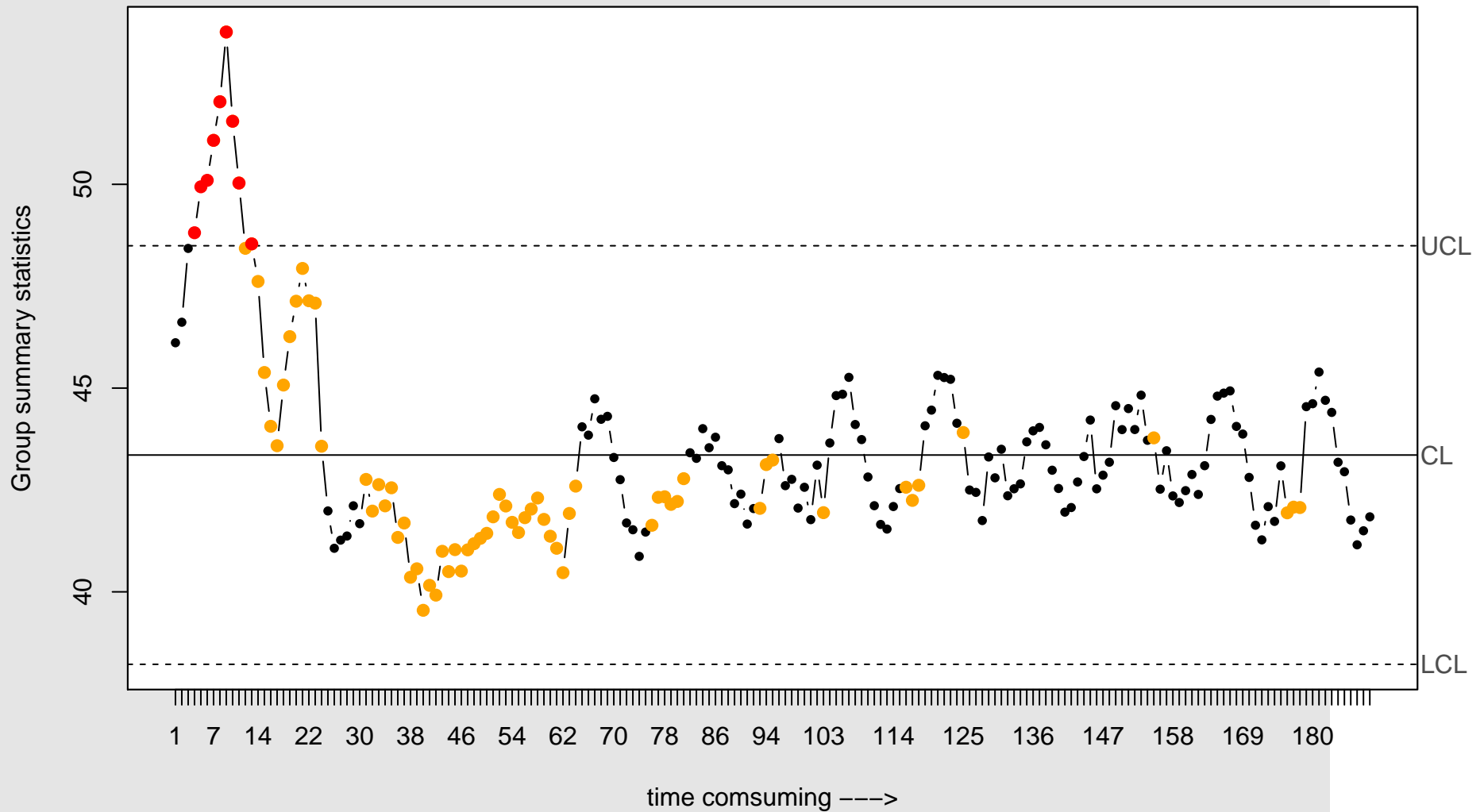


Number of groups = 189
Center = 2003.913
StdDev = 43.41763

LCL = 1996.654
UCL = 2011.171

Number beyond limits = 3
Number violating runs = 37

S chart for a given dataset

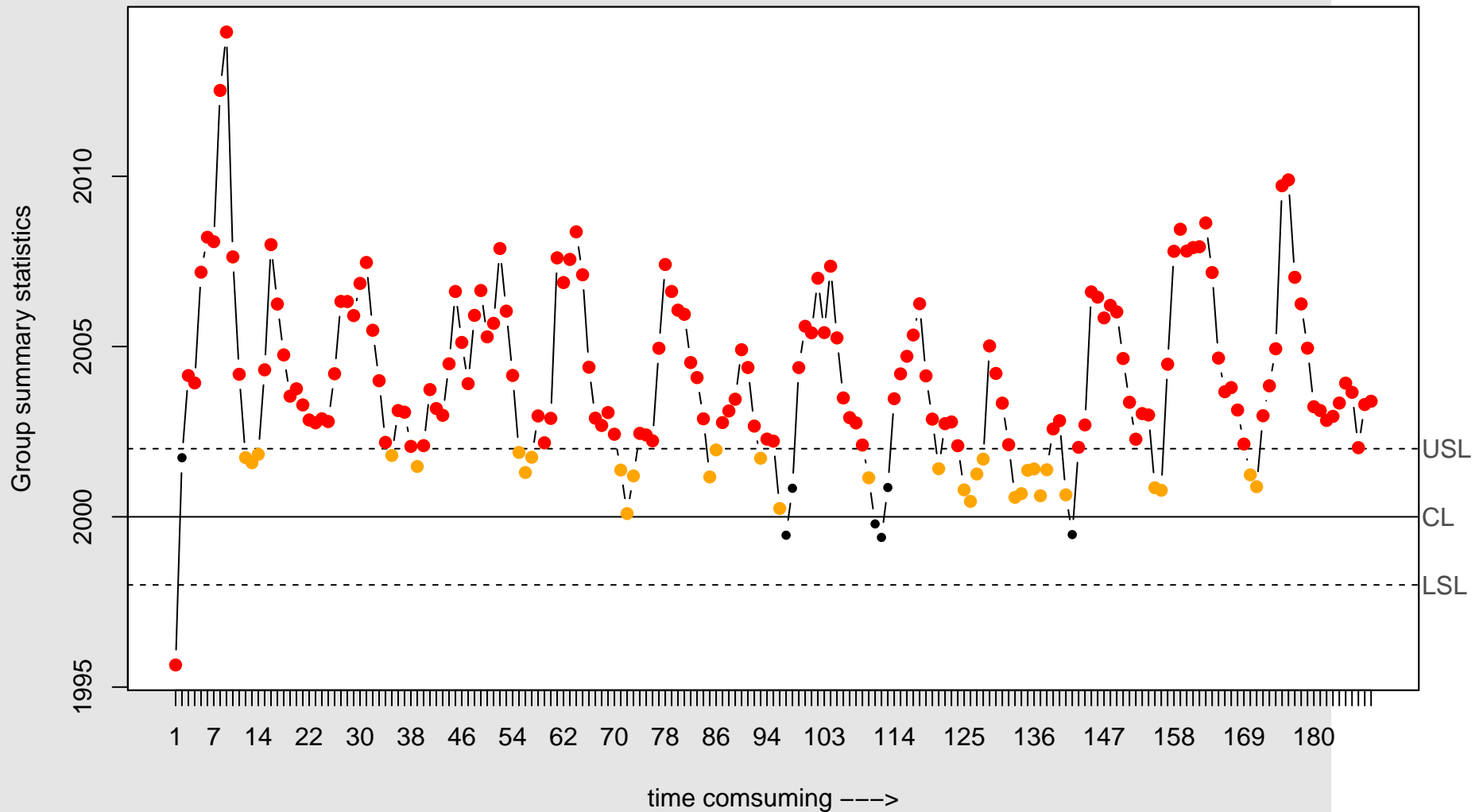


Number of groups = 189
Center = 43.35697
StdDev = 43.39075

LCL = 38.22149
UCL = 48.49246

Number beyond limits = 9
Number violating runs = 70

X-bar chart using USL/LSL for a given dataset

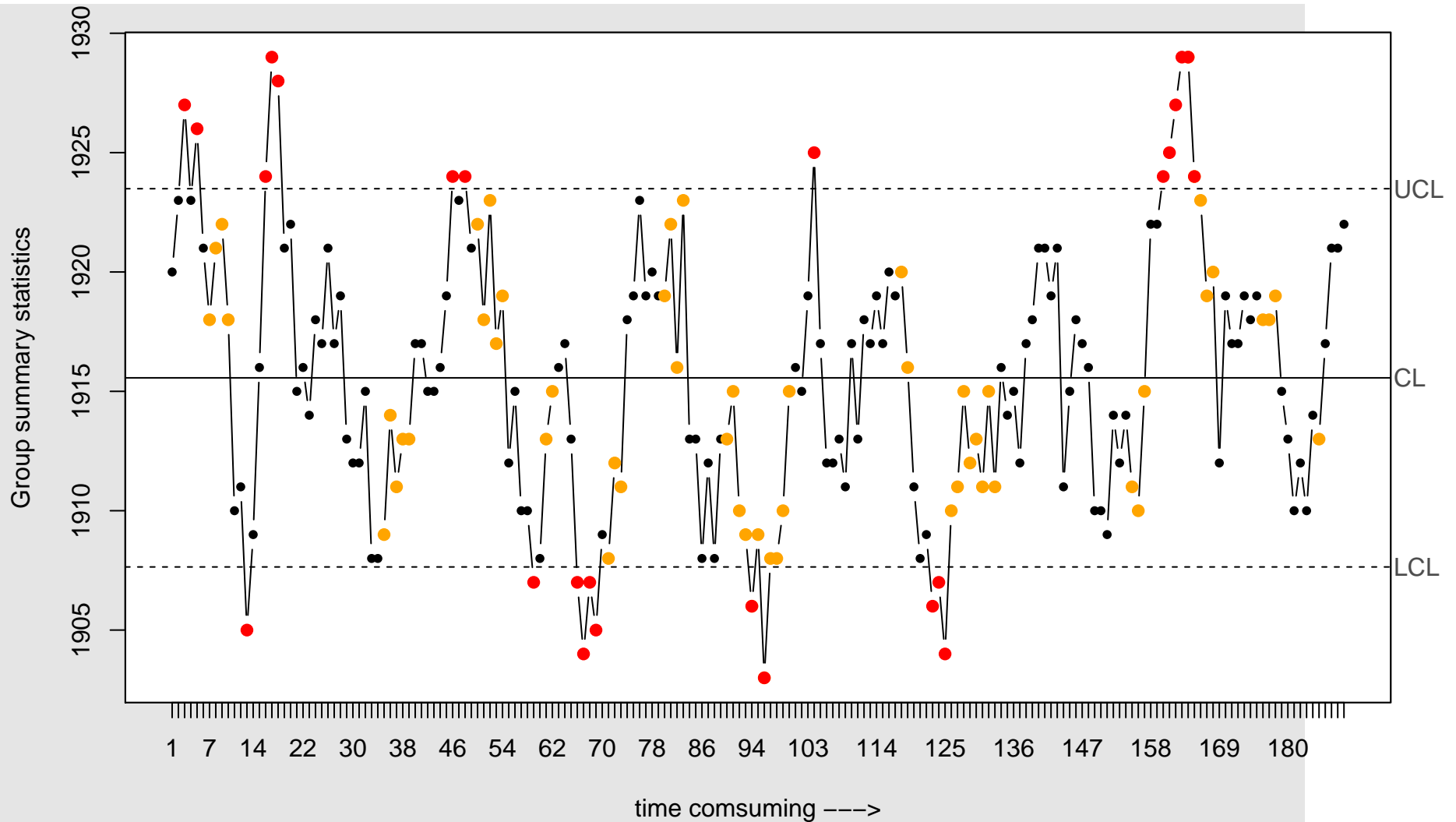


Number of groups = 189
Center = 2000
StdDev = 43.41763

LCL = 1998
UCL = 2002

Number beyond limits = 150
Number violating runs = 160

1th column point of this product



Number of groups = 189

Center = 1915.566

StdDev = 2.640712

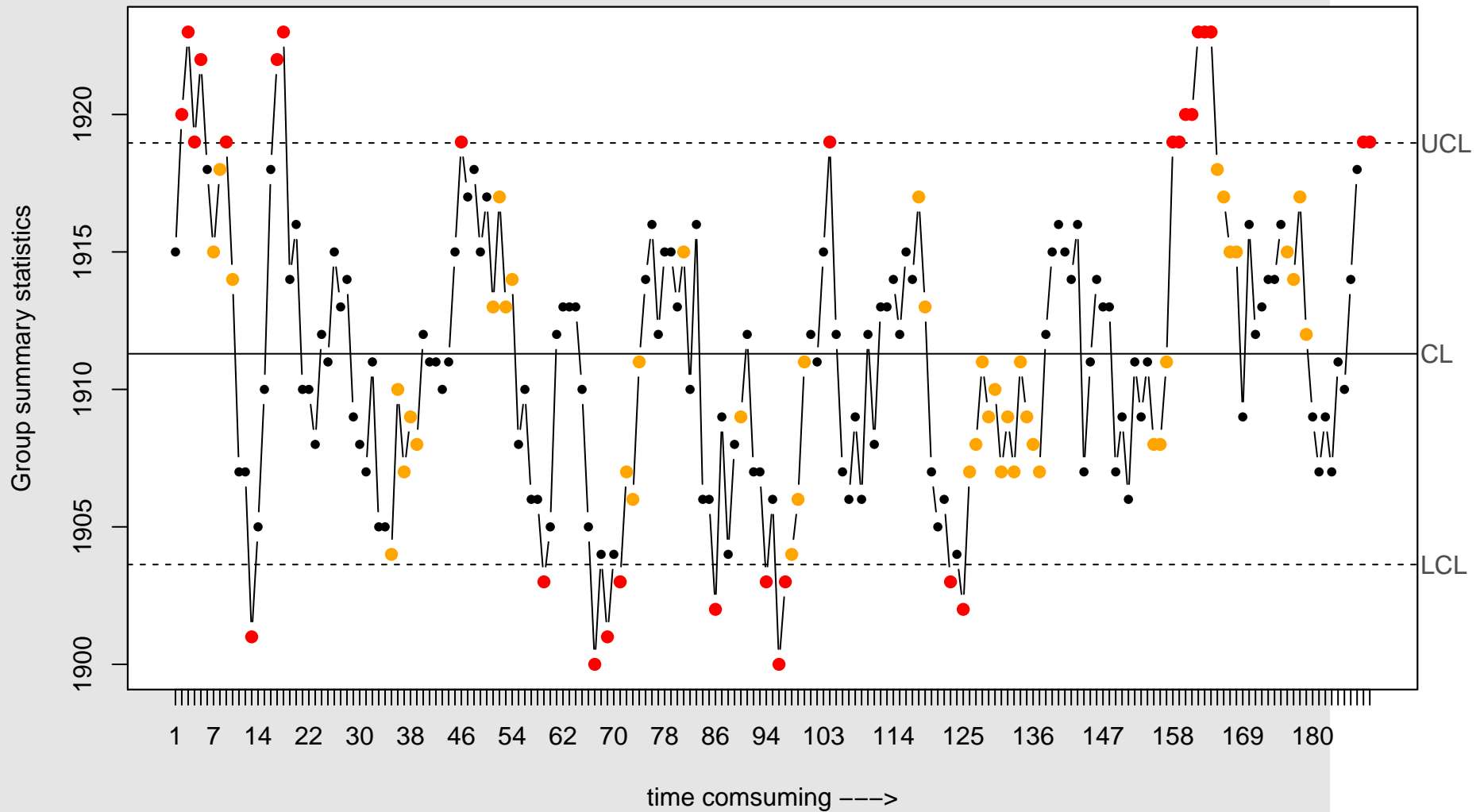
LCL = 1907.644

UCL = 1923.488

Number beyond limits = 25

Number violating runs = 56

2th column point of this product



Number of groups = 189

Center = 1911.296

StdDev = 2.555832

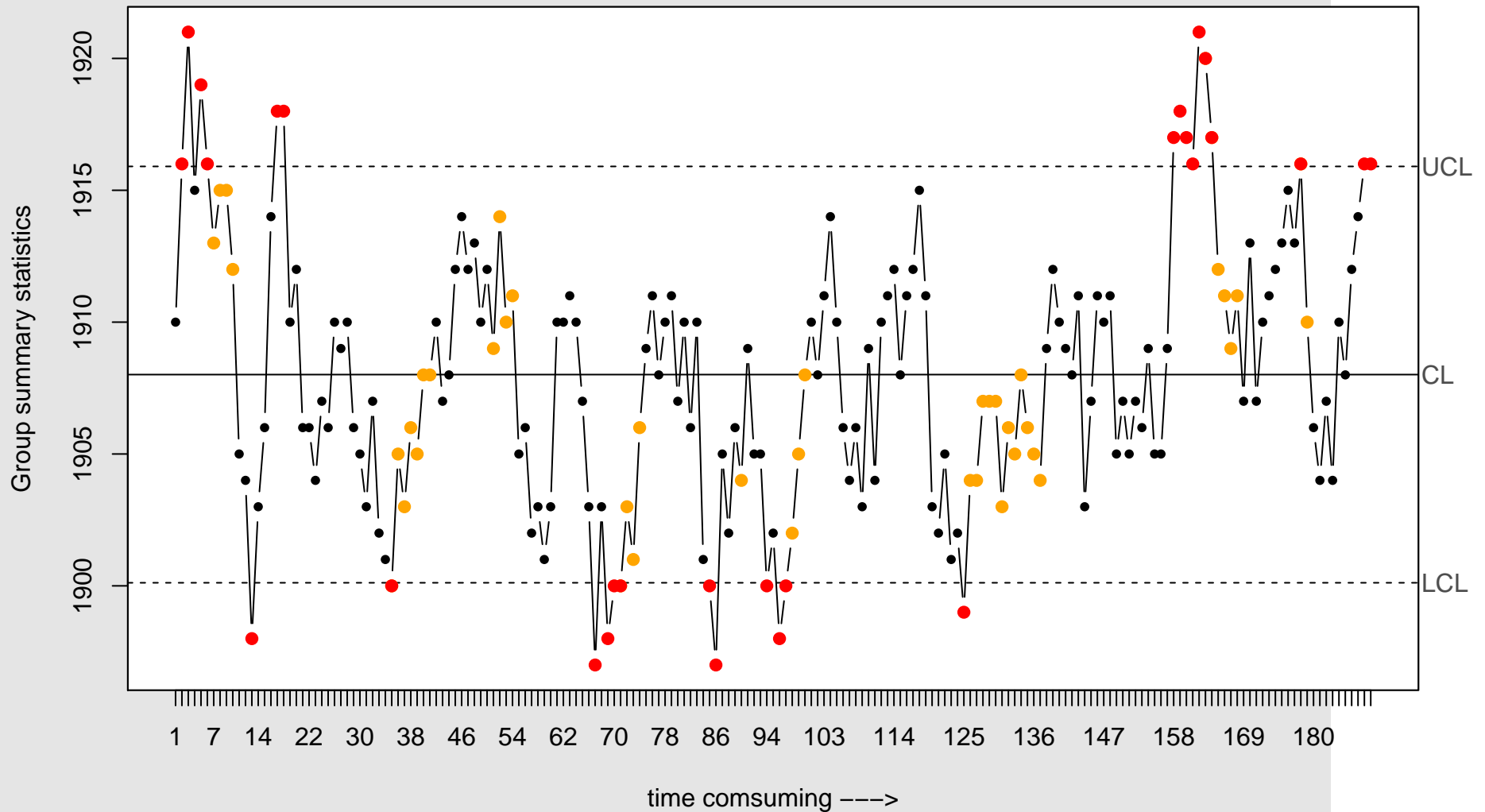
LCL = 1903.629

UCL = 1918.964

Number beyond limits = 29

Number violating runs = 48

3th column point of this product

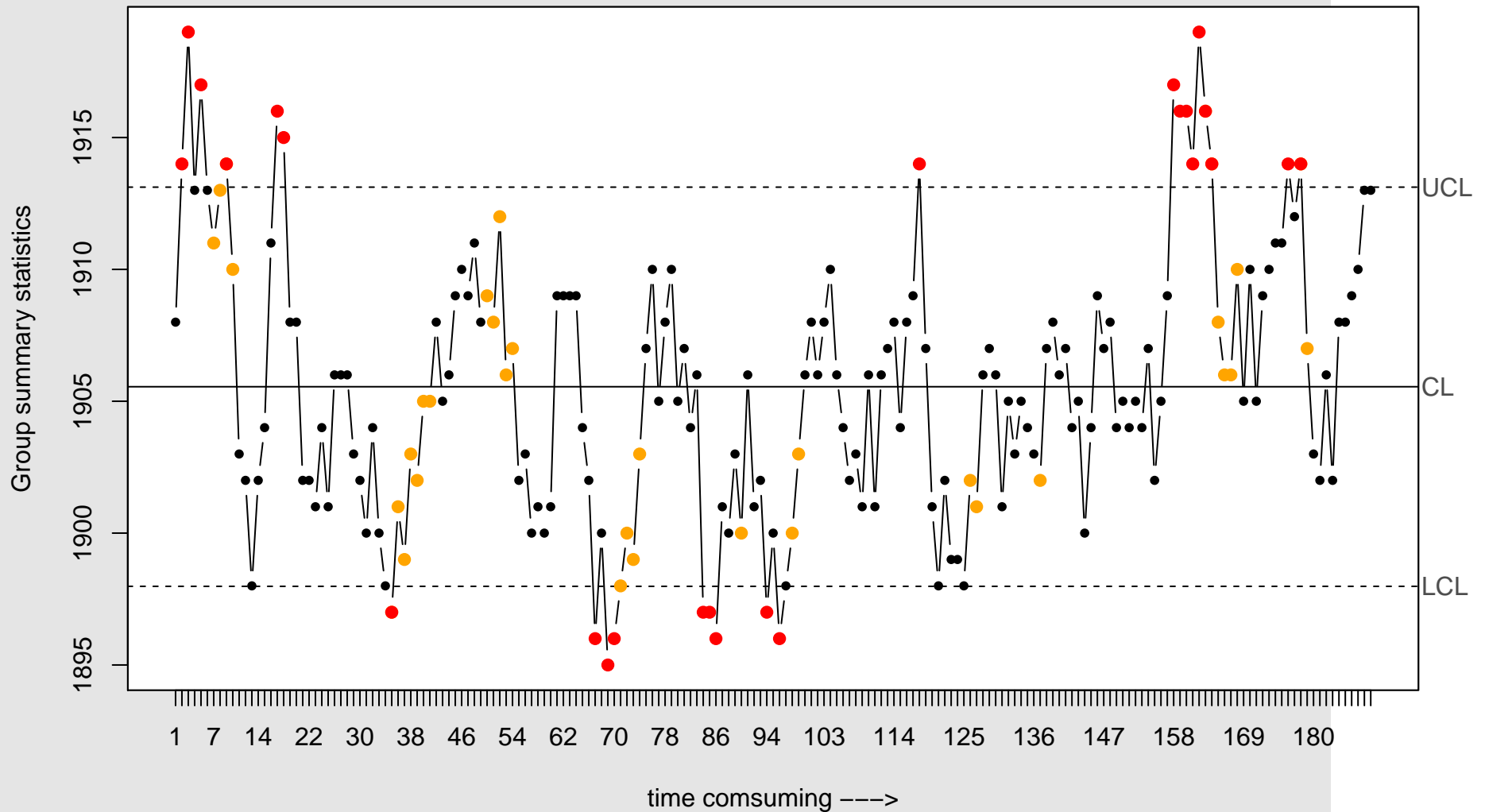


Number of groups = 189
Center = 1908.011
StdDev = 2.631281

LCL = 1900.117
UCL = 1915.904

Number beyond limits = 28
Number violating runs = 43

4th column point of this product



Number of groups = 189

Center = 1905.55

StdDev = 2.522823

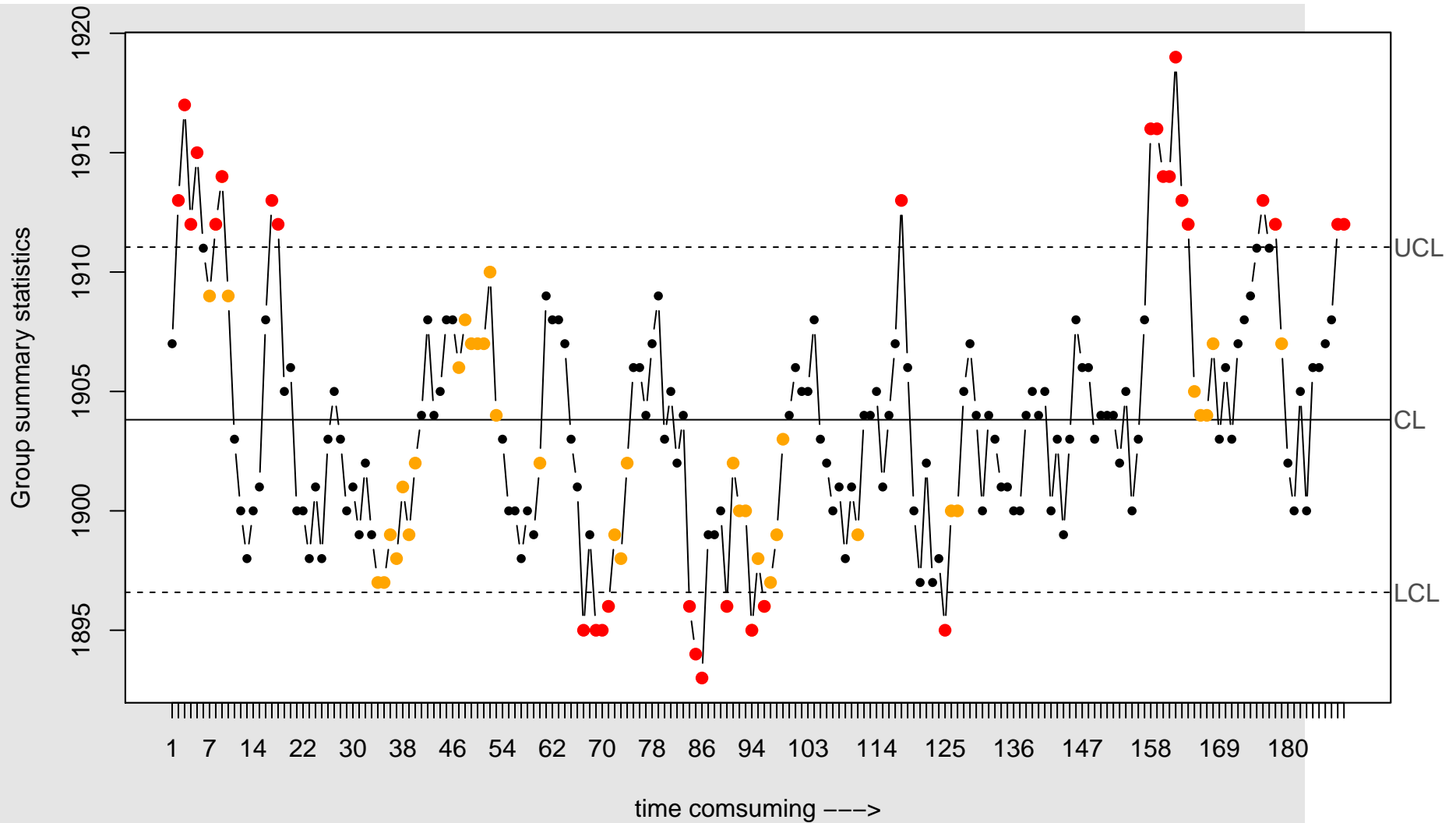
LCL = 1897.982

UCL = 1913.119

Number beyond limits = 25

Number violating runs = 34

5th column point of this product

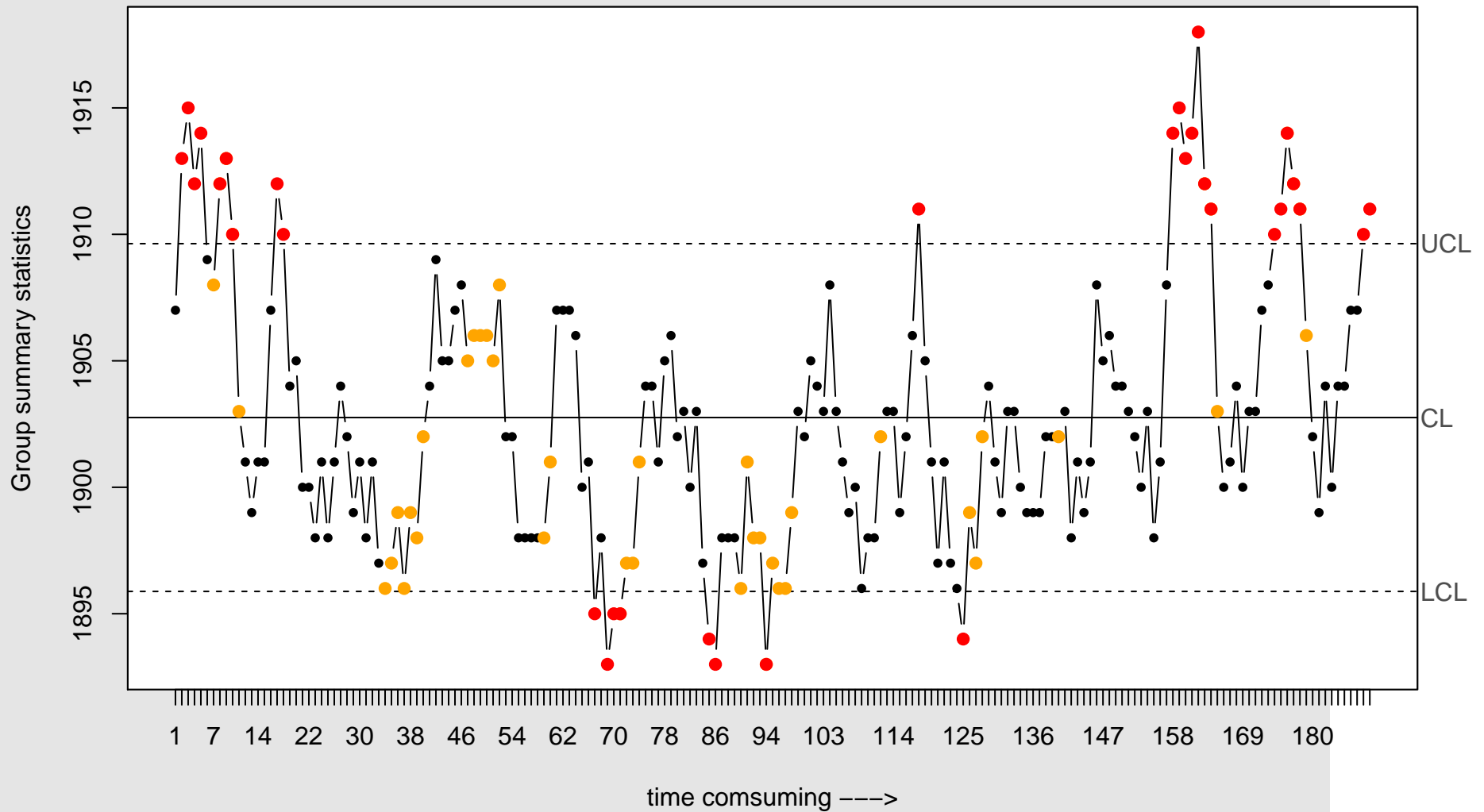


Number of groups = 189
Center = 1903.815
StdDev = 2.40965

LCL = 1896.586
UCL = 1911.044

Number beyond limits = 31
Number violating runs = 44

6th column point of this product



Number of groups = 189

Center = 1902.757

StdDev = 2.291761

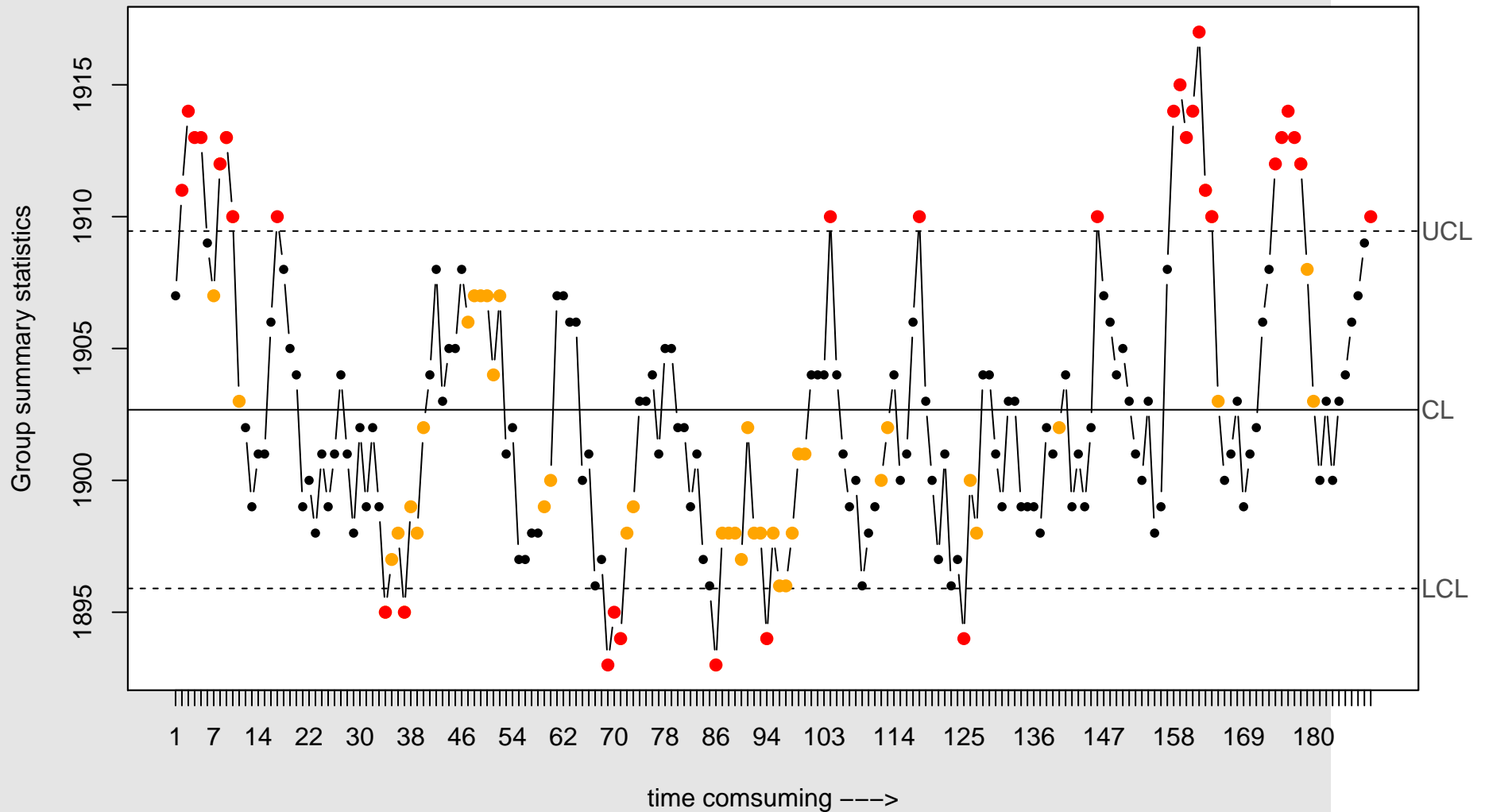
LCL = 1895.881

UCL = 1909.632

Number beyond limits = 32

Number violating runs = 45

7th column point of this product



Number of groups = 189

Center = 1902.677

StdDev = 2.258752

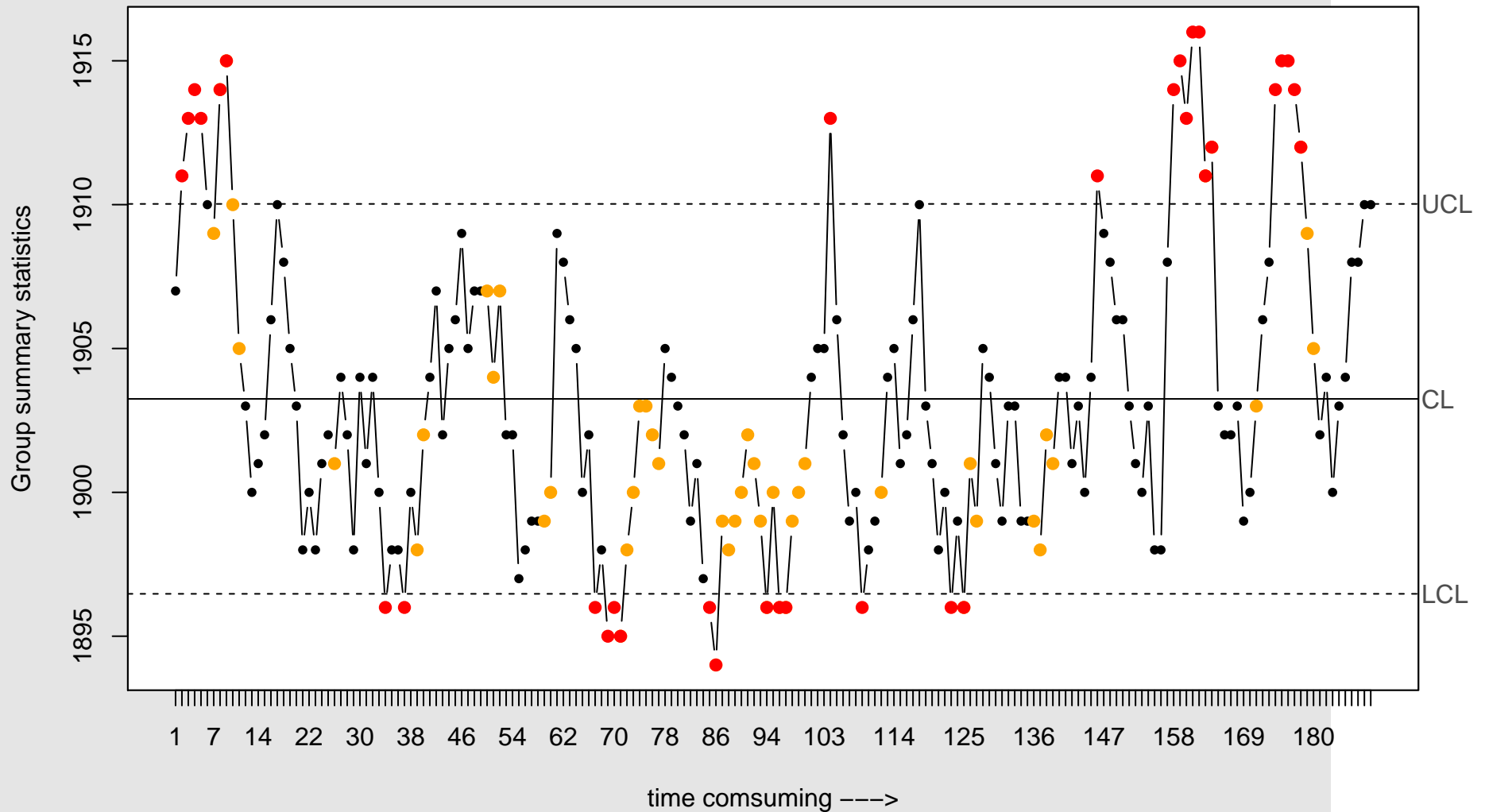
LCL = 1895.901

UCL = 1909.454

Number beyond limits = 32

Number violating runs = 49

8th column point of this product

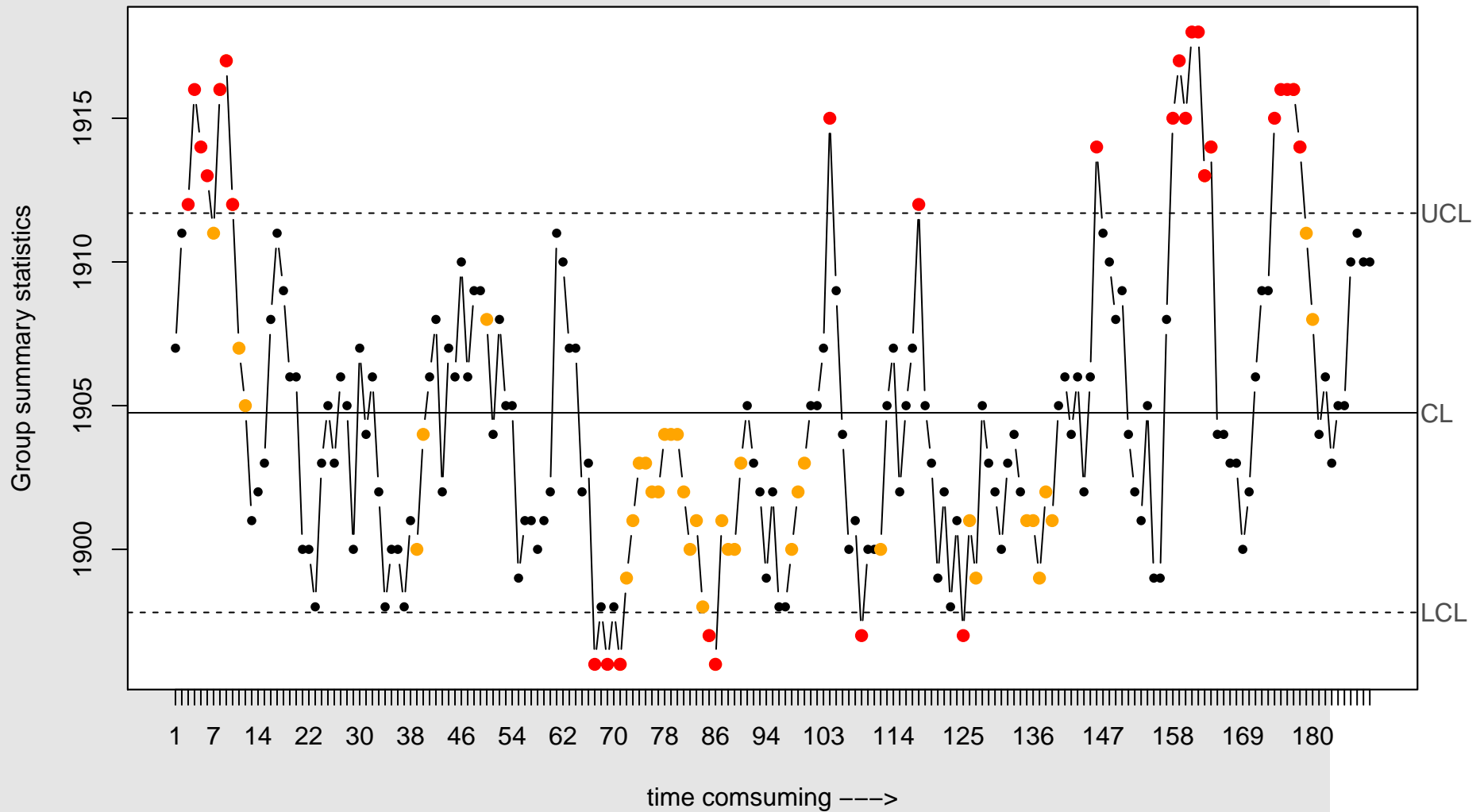


Number of groups = 189
 Center = 1903.249
 StdDev = 2.258752

LCL = 1896.472
 UCL = 1910.025

Number beyond limits = 34
 Number violating runs = 49

9th column point of this product

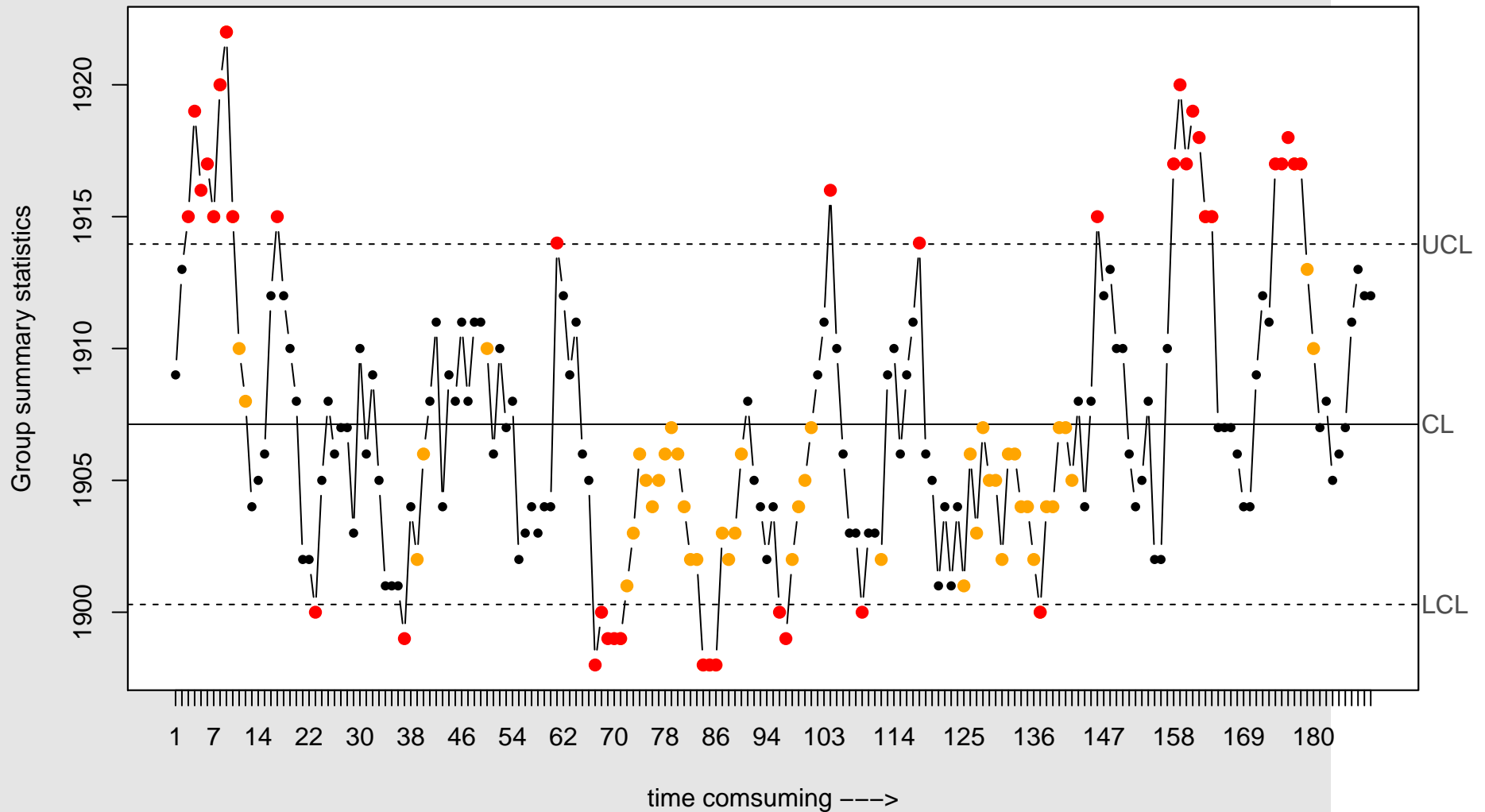


Number of groups = 189
Center = 1904.751
StdDev = 2.315339

LCL = 1897.805
UCL = 1911.697

Number beyond limits = 29
Number violating runs = 46

10th column point of this product



Number of groups = 189

Center = 1907.127

StdDev = 2.277614

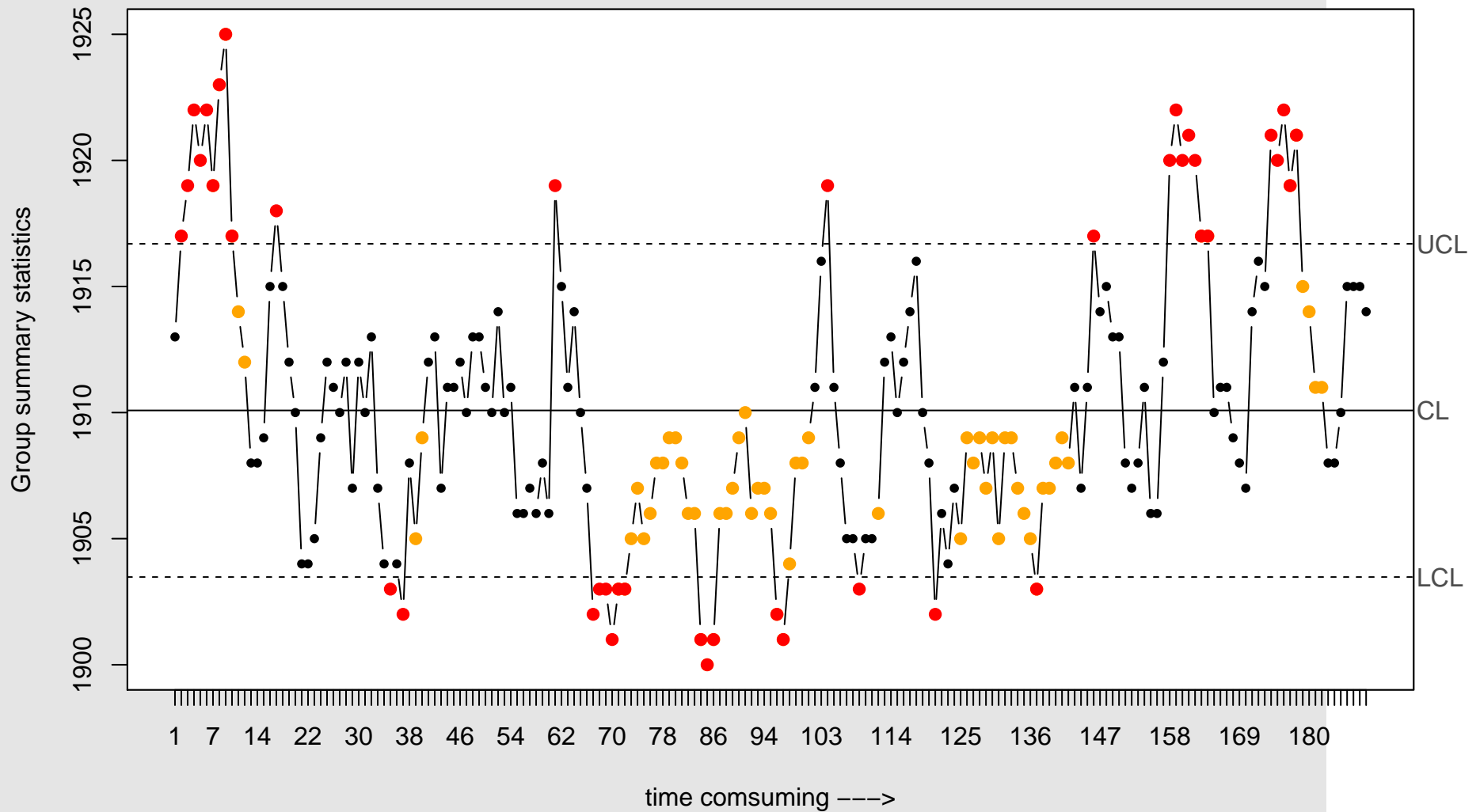
LCL = 1900.294

UCL = 1913.96

Number beyond limits = 39

Number violating runs = 58

11th column point of this product



Number of groups = 189

Center = 1910.085

StdDev = 2.202165

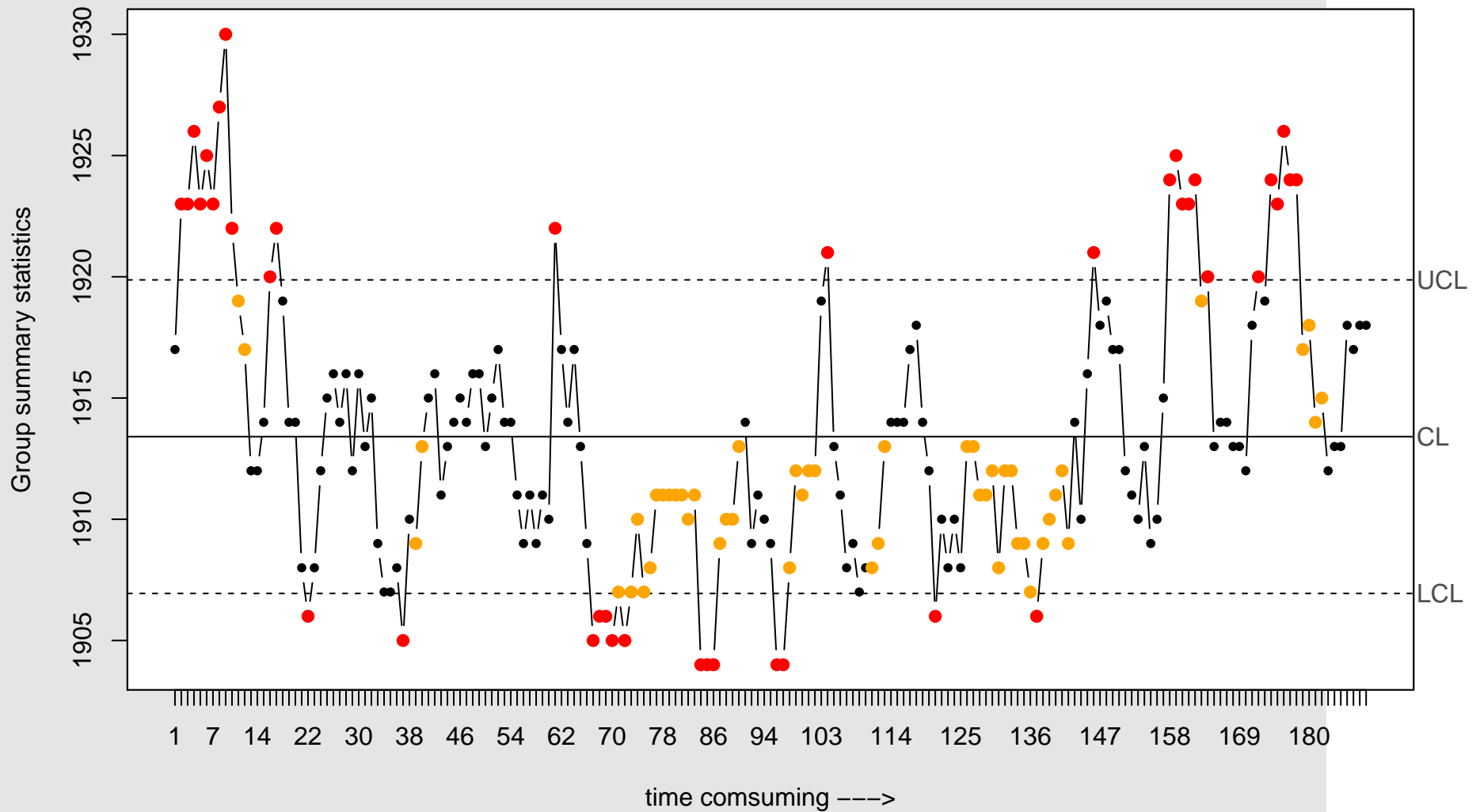
LCL = 1903.478

UCL = 1916.691

Number beyond limits = 41

Number violating runs = 66

12th column point of this product



Number of groups = 189

Center = 1913.407

StdDev = 2.15501

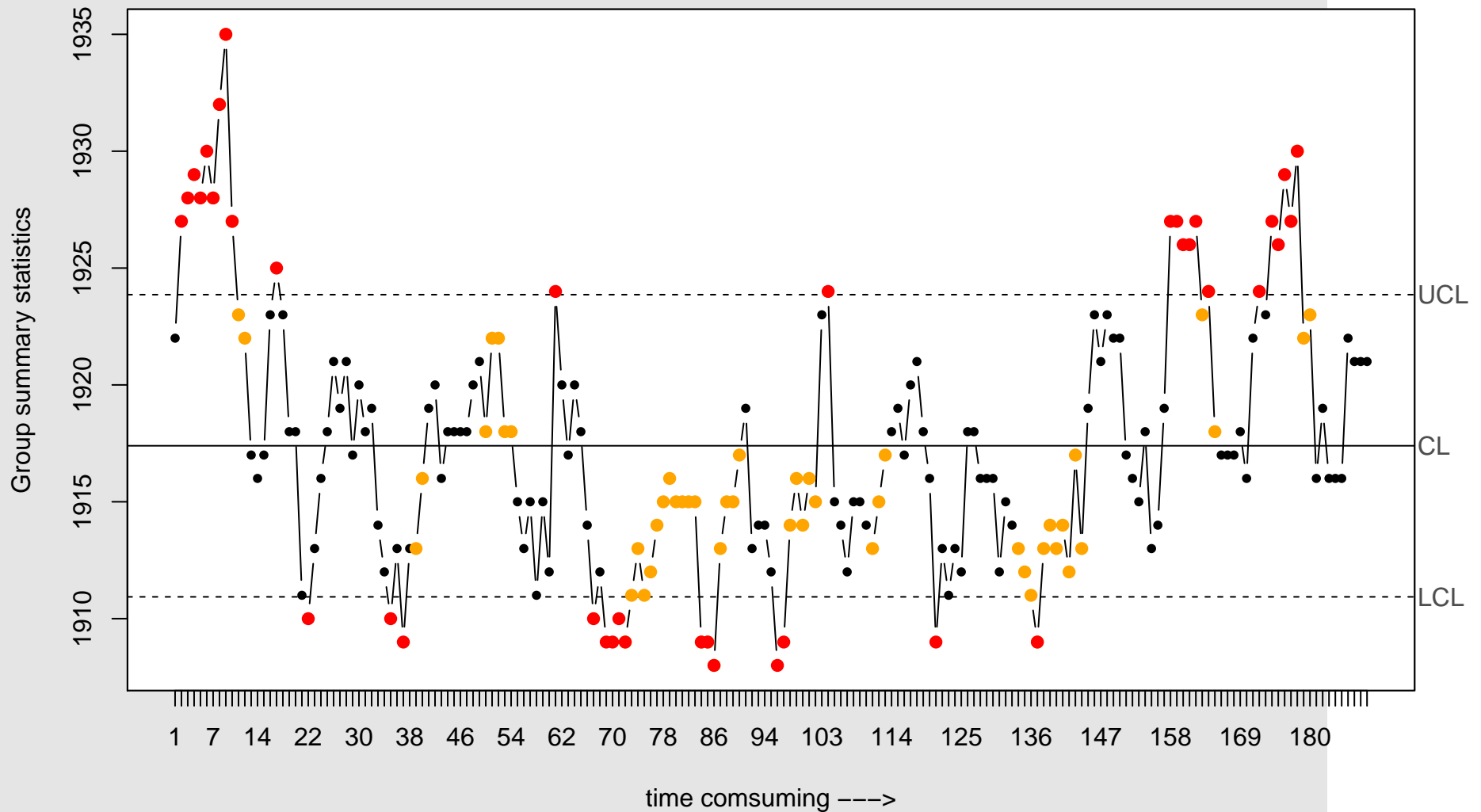
LCL = 1906.942

UCL = 1919.872

Number beyond limits = 40

Number violating runs = 61

13th column point of this product

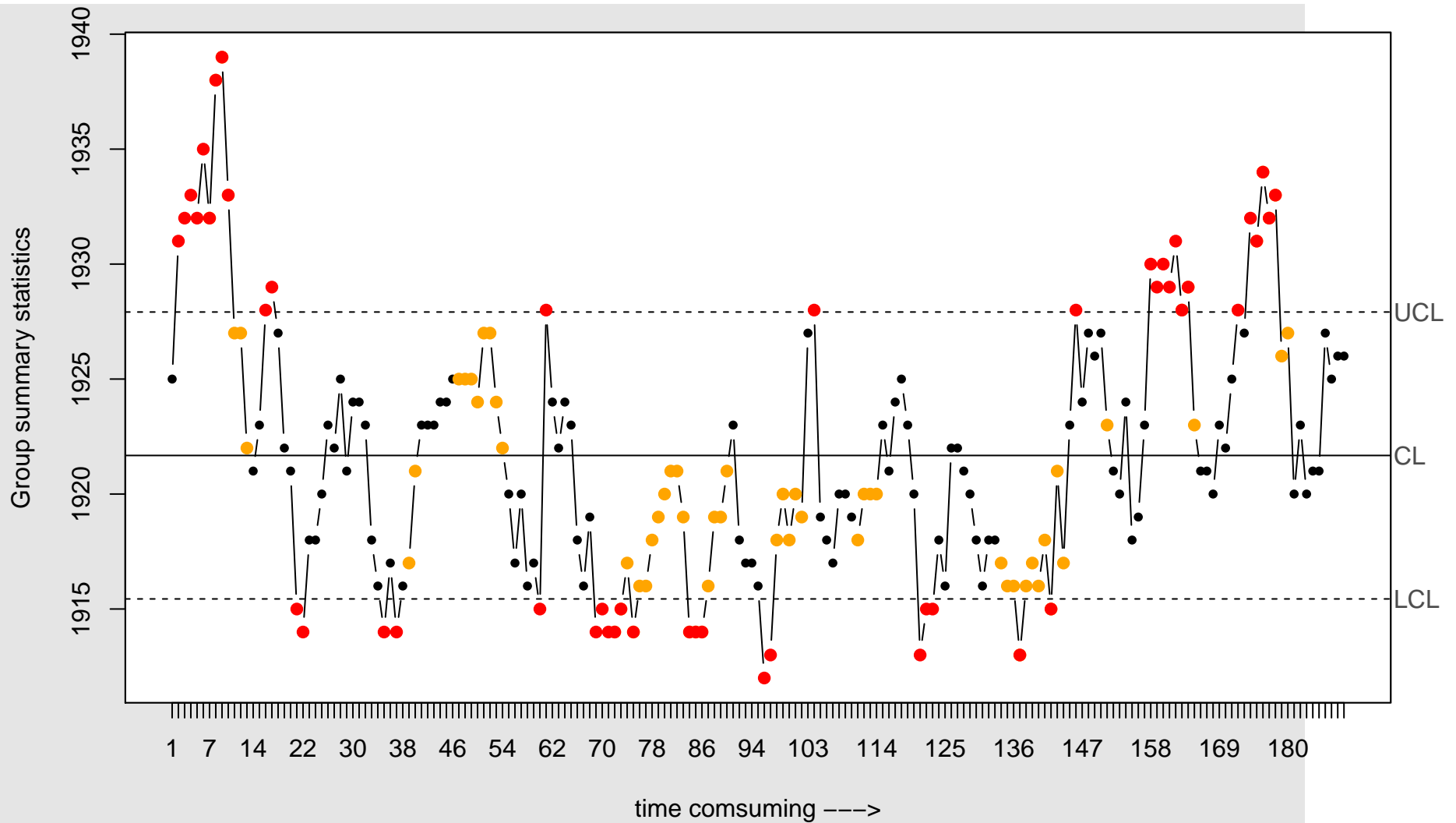


Number of groups = 189
 Center = 1917.397
 StdDev = 2.15501

LCL = 1910.932
 UCL = 1923.862

Number beyond limits = 39
 Number violating runs = 58

14th column point of this product

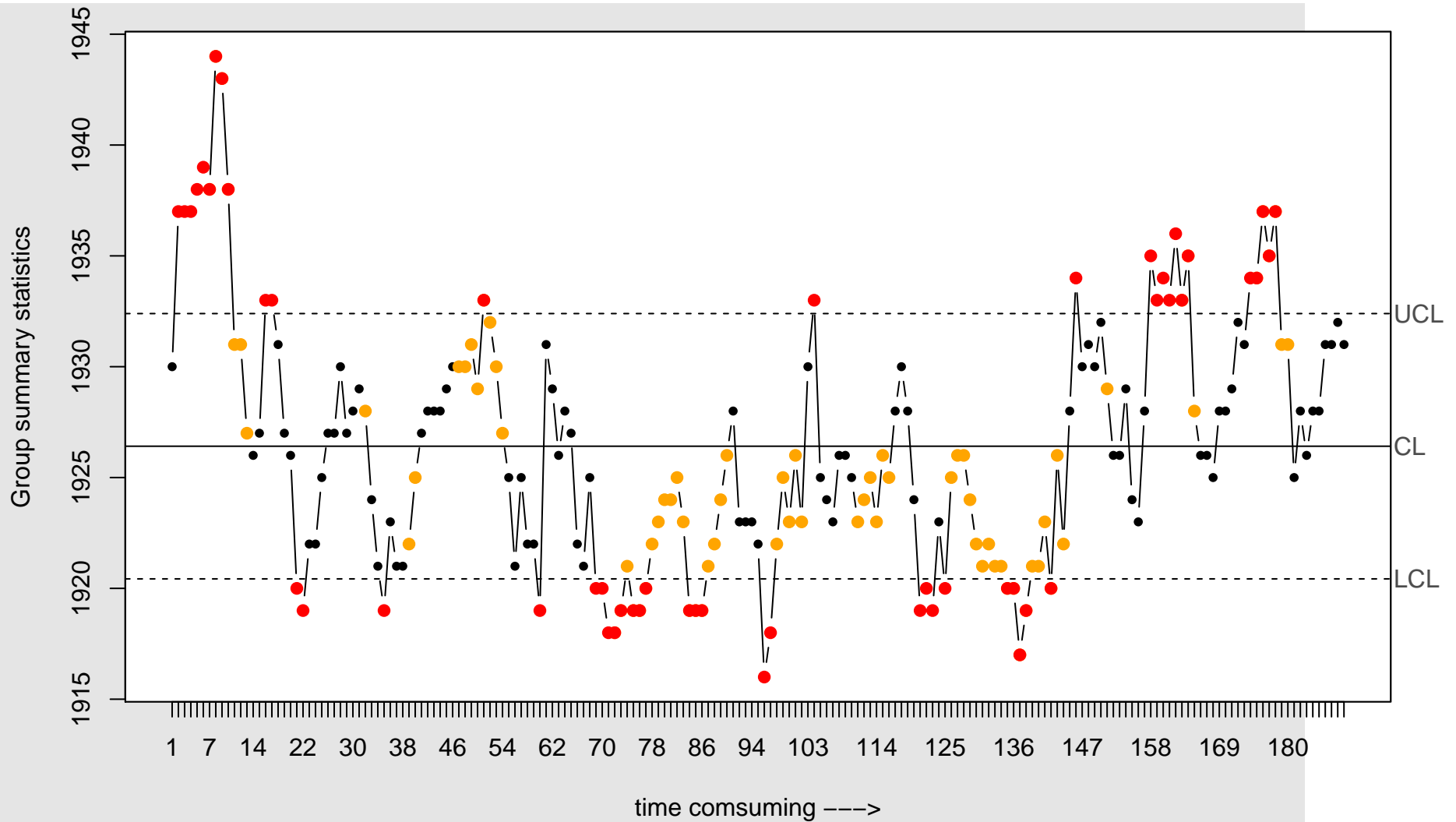


Number of groups = 189
 Center = 1921.677
 StdDev = 2.079561

LCL = 1915.439
 UCL = 1927.916

Number beyond limits = 48
 Number violating runs = 66

15th column point of this product

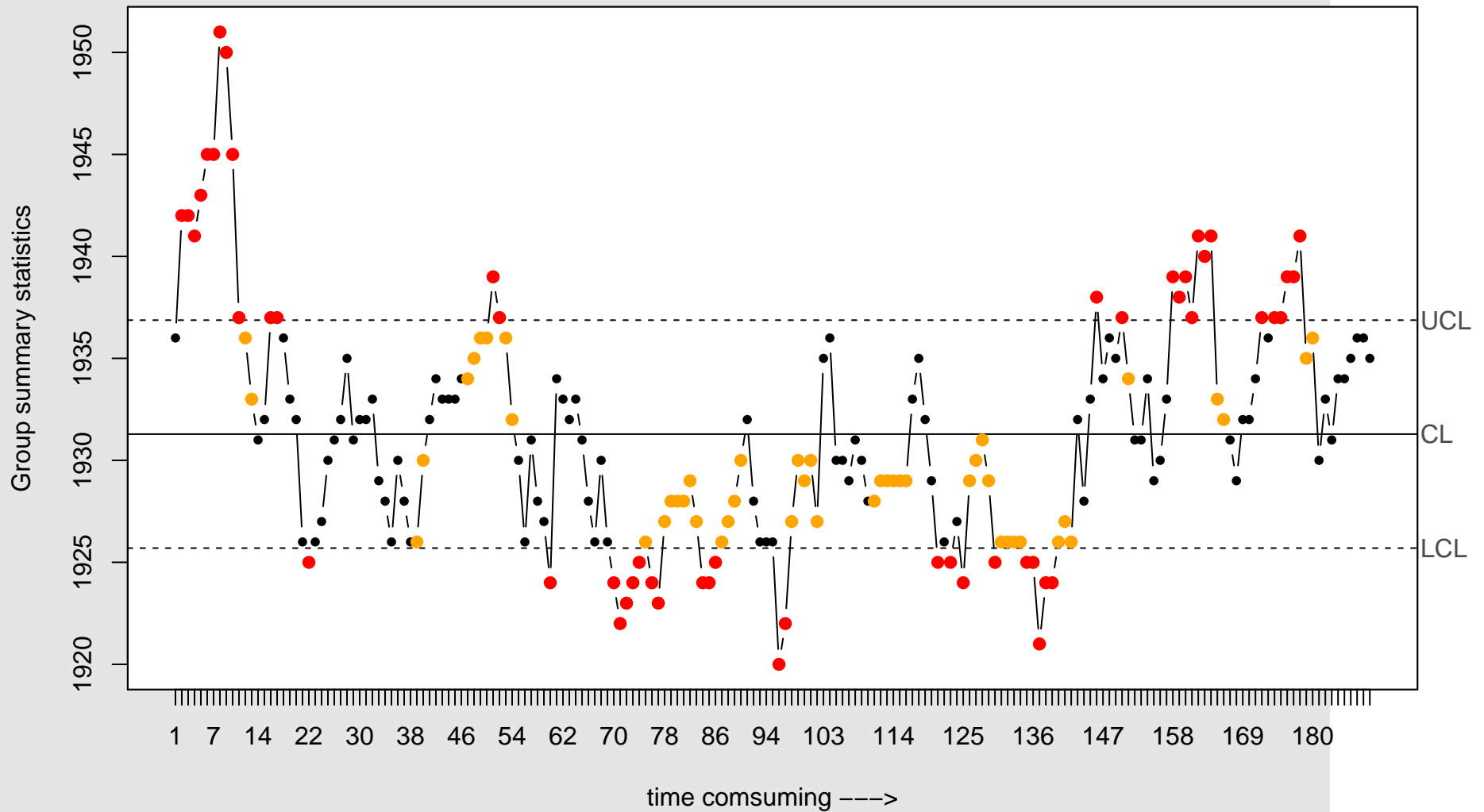


Number of groups = 189
 Center = 1926.413
 StdDev = 1.994681

LCL = 1920.429
 UCL = 1932.397

Number beyond limits = 52
 Number violating runs = 77

16th column point of this product



Number of groups = 189

Center = 1931.286

StdDev = 1.862645

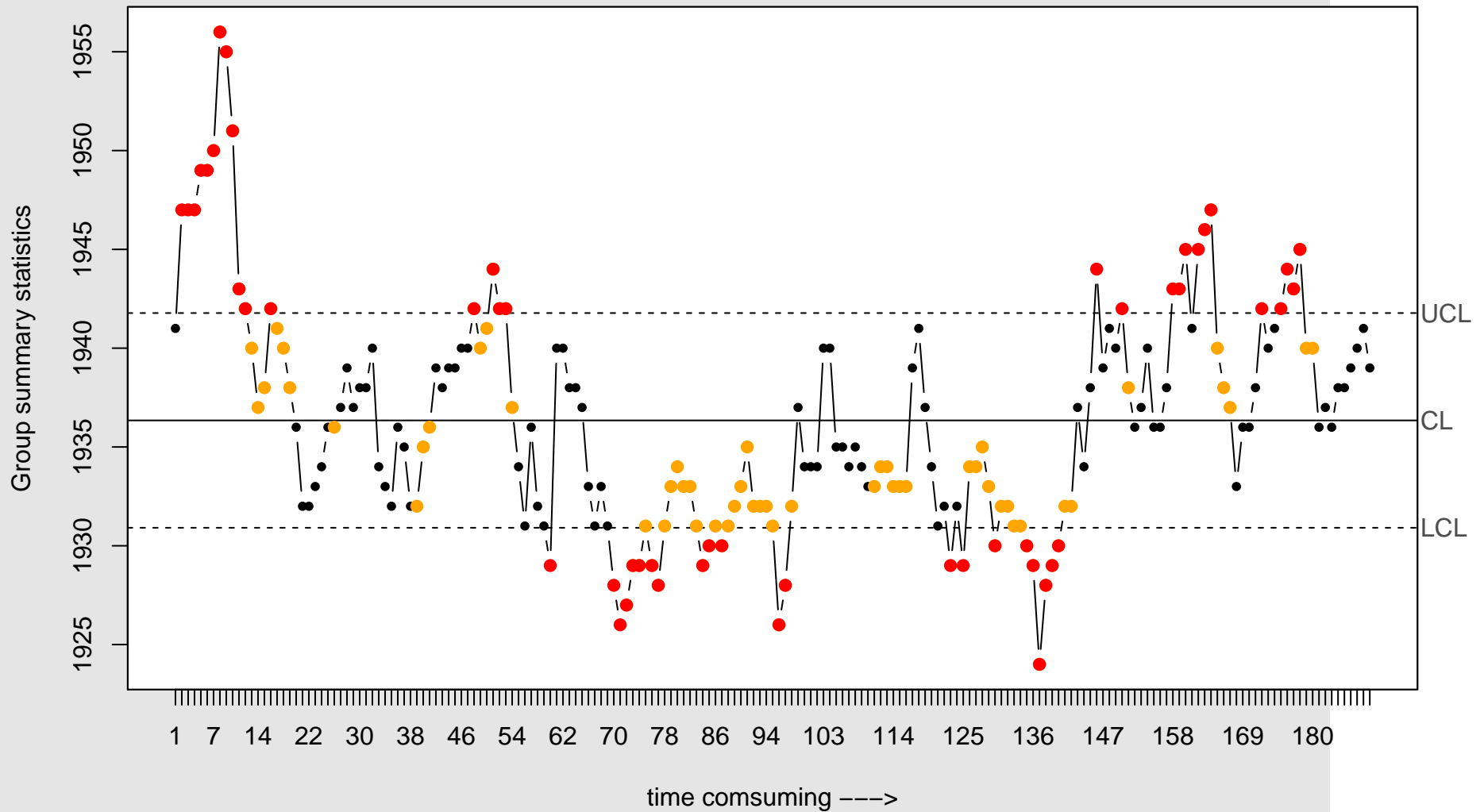
LCL = 1925.698

UCL = 1936.874

Number beyond limits = 52

Number violating runs = 76

17th column point of this product

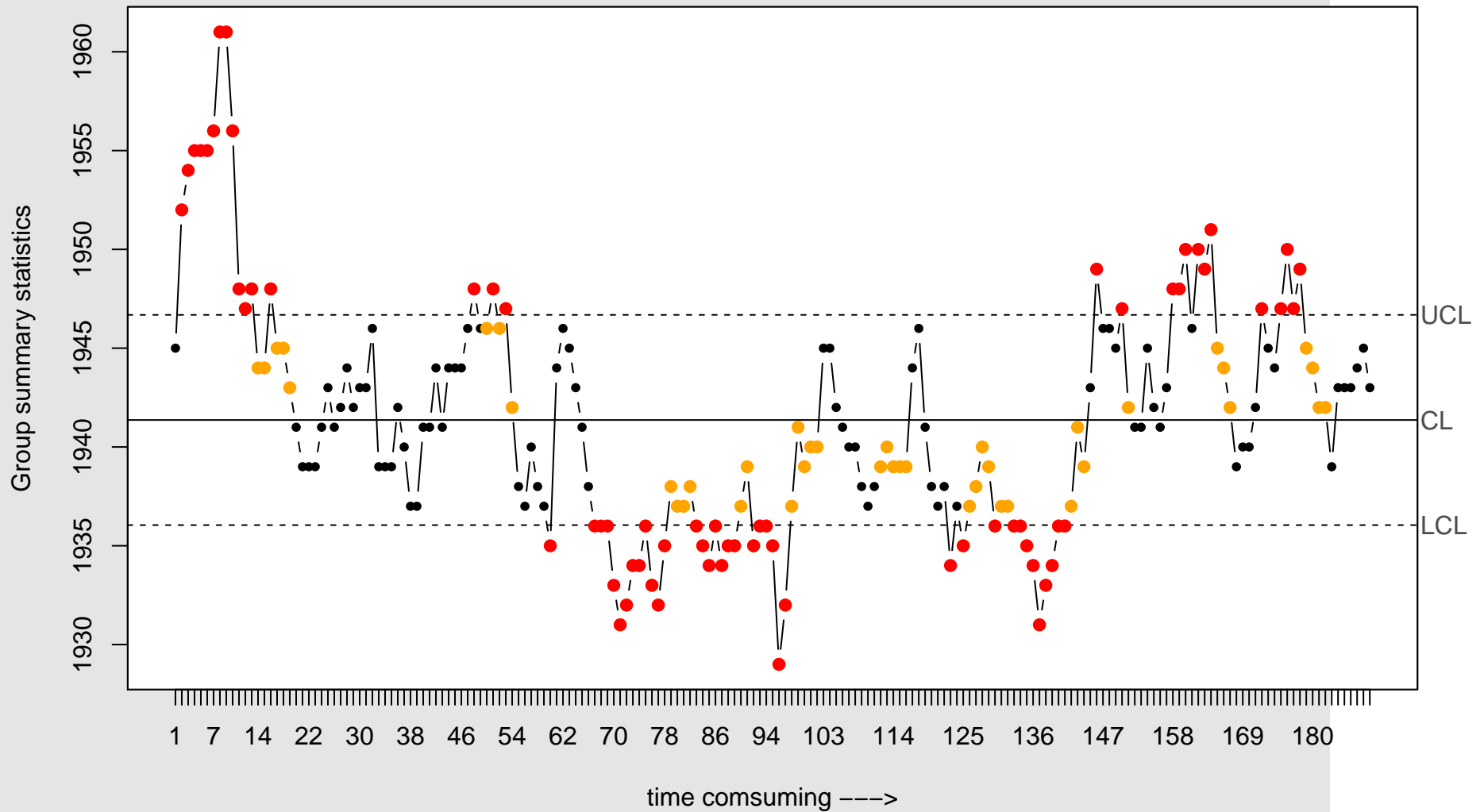


Number of groups = 189
 Center = 1936.344
 StdDev = 1.810774

LCL = 1930.912
 UCL = 1941.776

Number beyond limits = 51
 Number violating runs = 84

18th column point of this product



Number of groups = 189

Center = 1941.365

StdDev = 1.77305

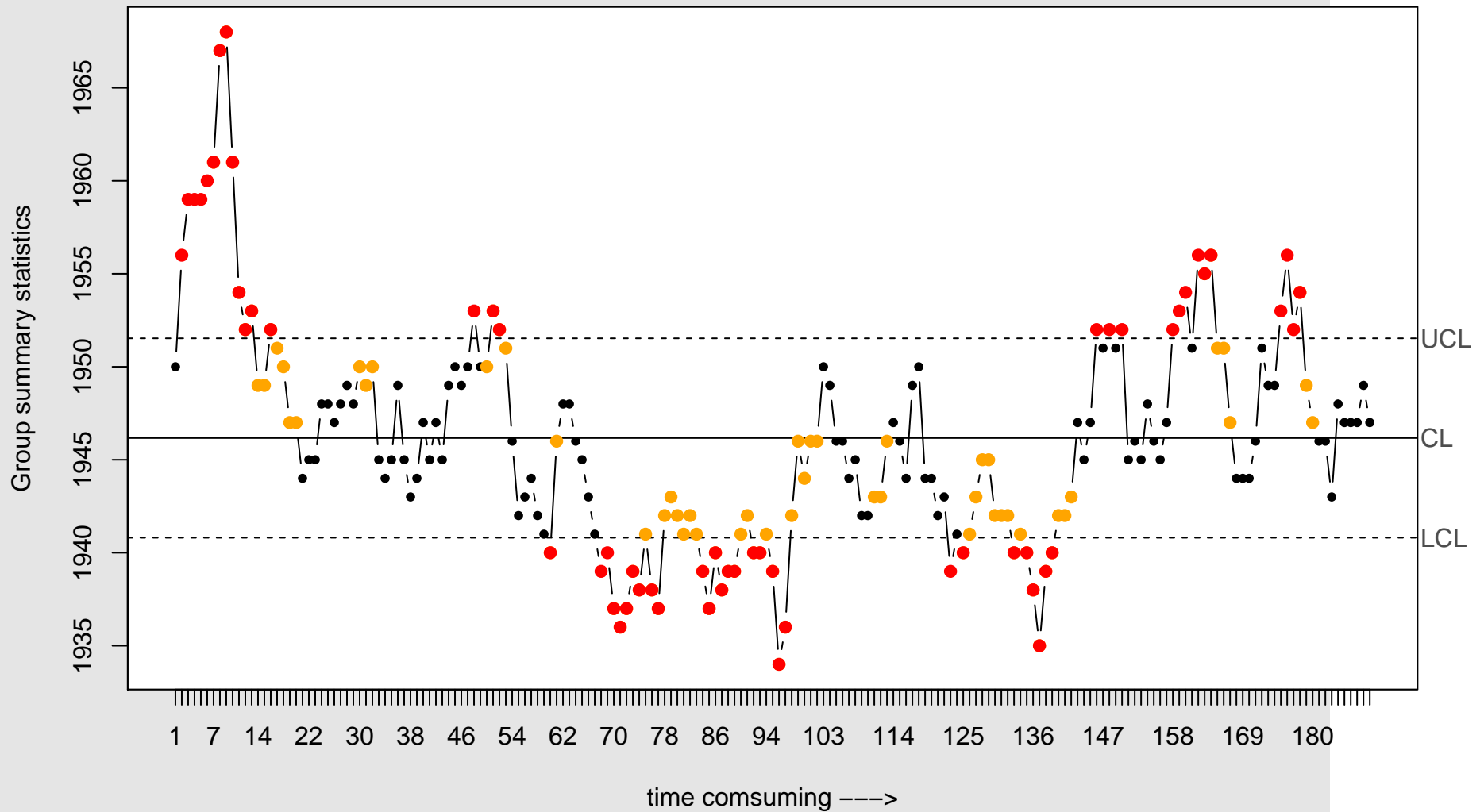
LCL = 1936.046

UCL = 1946.684

Number beyond limits = 67

Number violating runs = 87

19th column point of this product

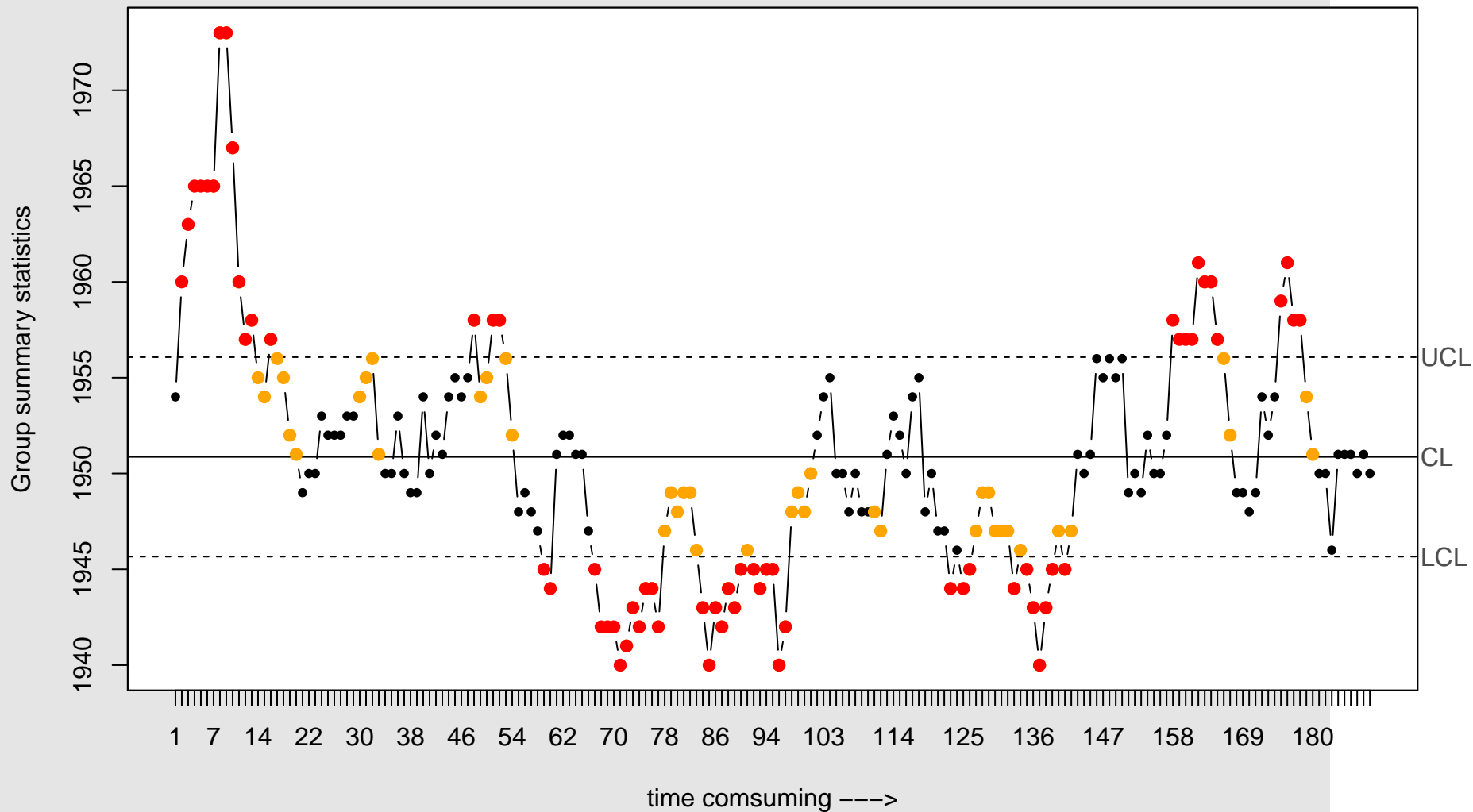


Number of groups = 189
Center = 1946.169
StdDev = 1.787196

LCL = 1940.808
UCL = 1951.531

Number beyond limits = 58
Number violating runs = 85

20th column point of this product

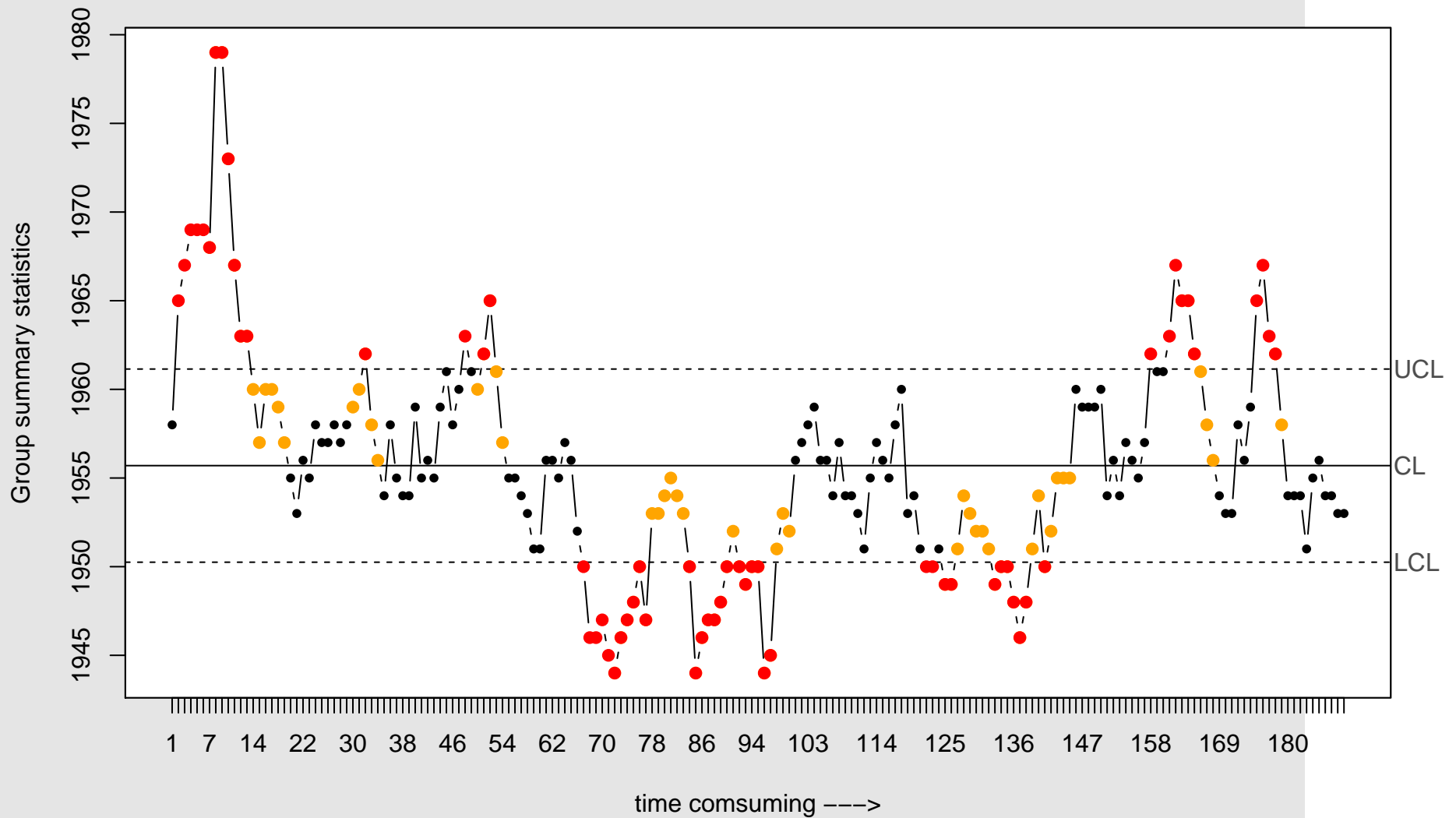


Number of groups = 189
Center = 1950.868
StdDev = 1.735325

LCL = 1945.662
UCL = 1956.074

Number beyond limits = 64
Number violating runs = 83

21th column point of this product

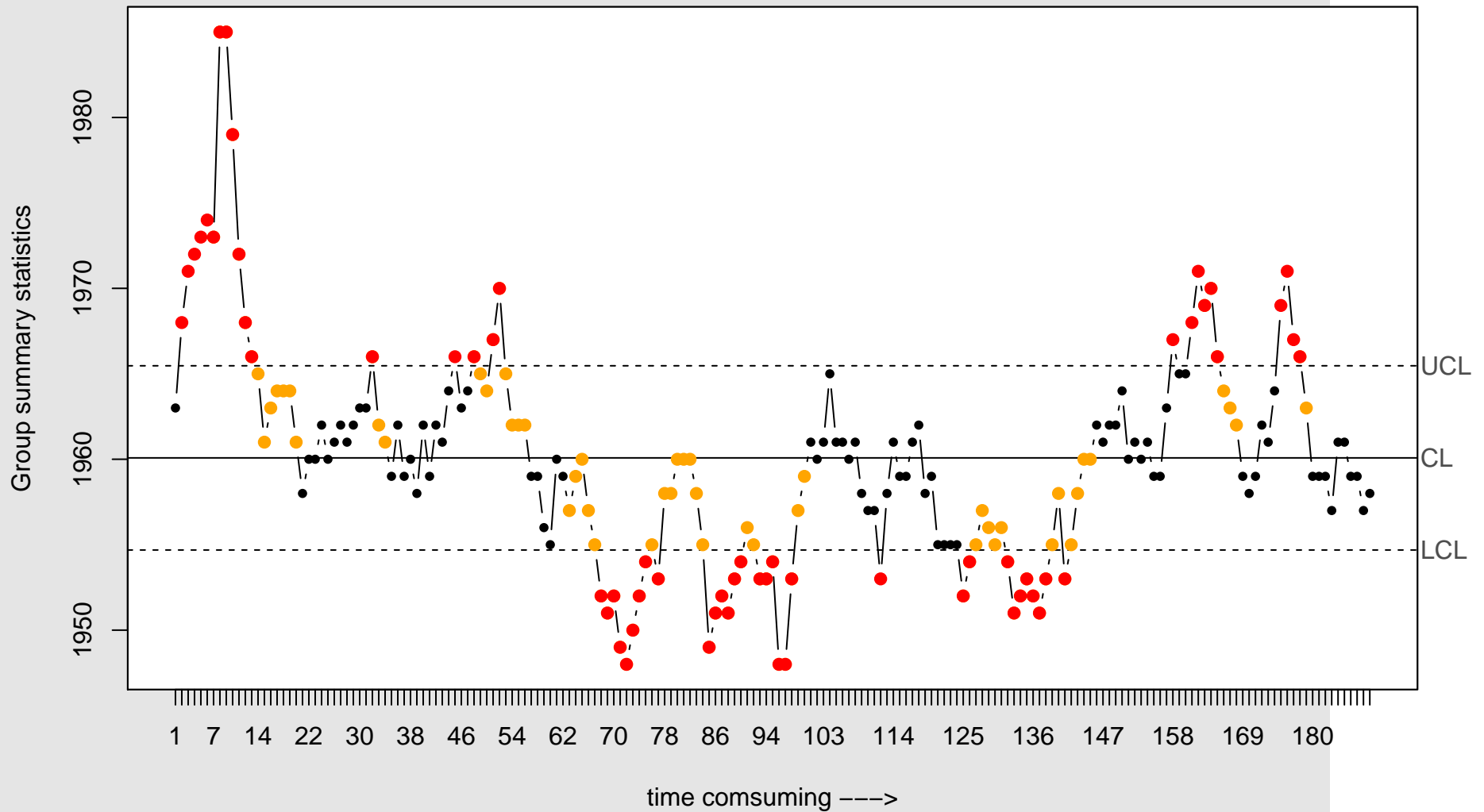


Number of groups = 189
 Center = 1955.698
 StdDev = 1.81549

LCL = 1950.252
 UCL = 1961.145

Number beyond limits = 61
 Number violating runs = 81

22th column point of this product



Number of groups = 189

Center = 1960.079

StdDev = 1.796627

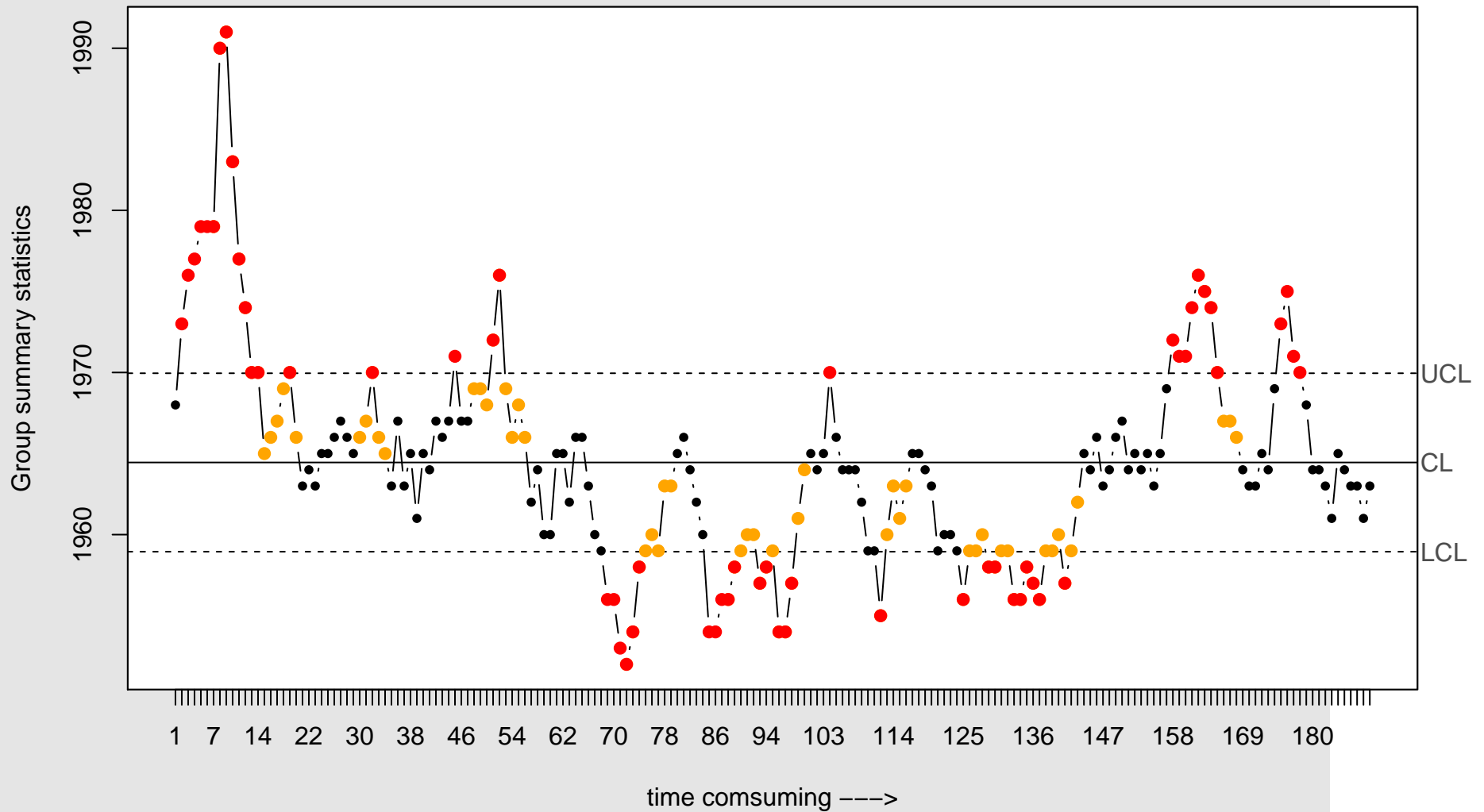
LCL = 1954.689

UCL = 1965.469

Number beyond limits = 59

Number violating runs = 93

23th column point of this product



Number of groups = 189

Center = 1964.45

StdDev = 1.834352

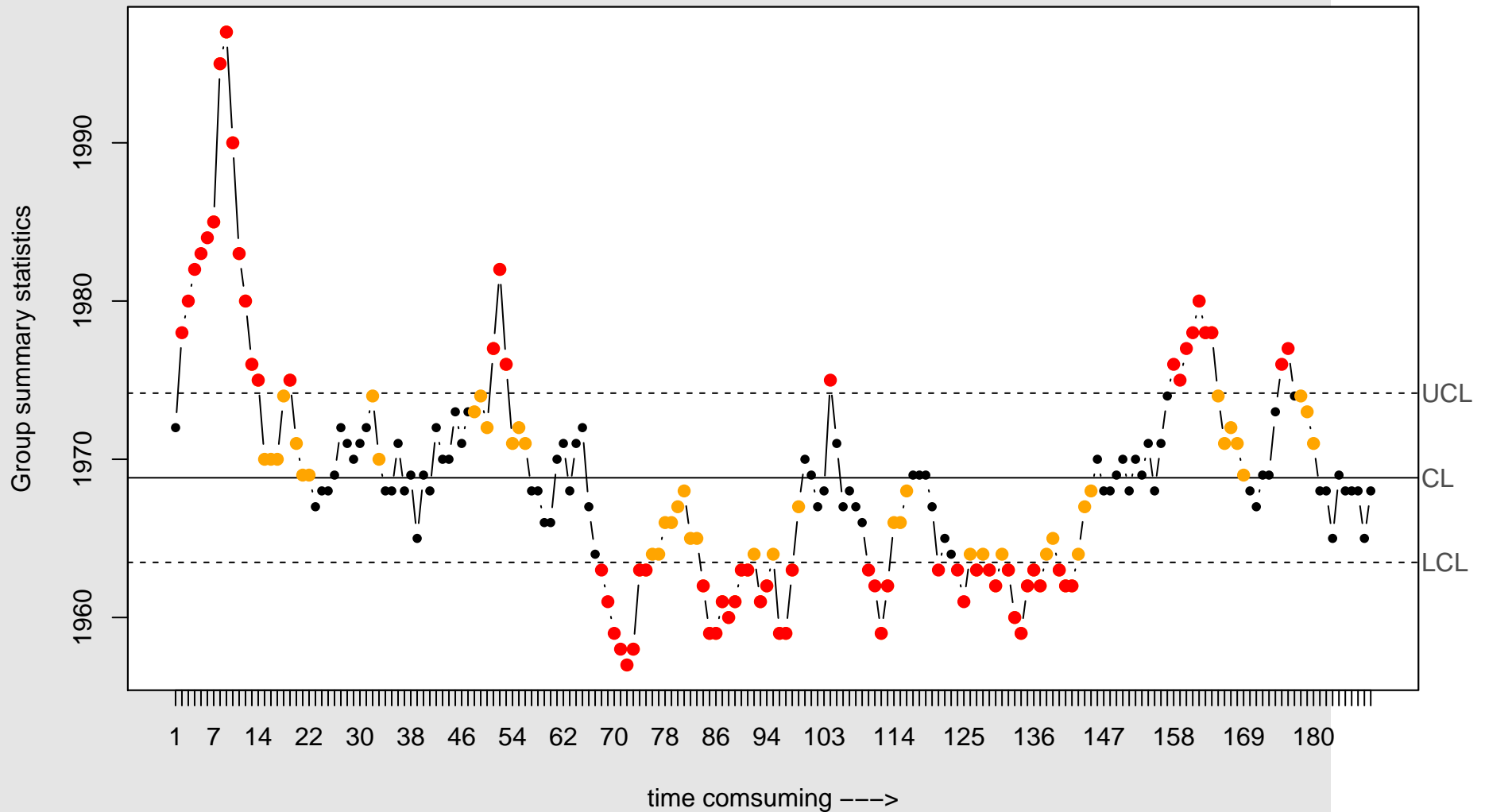
LCL = 1958.947

UCL = 1969.953

Number beyond limits = 57

Number violating runs = 80

24th column point of this product

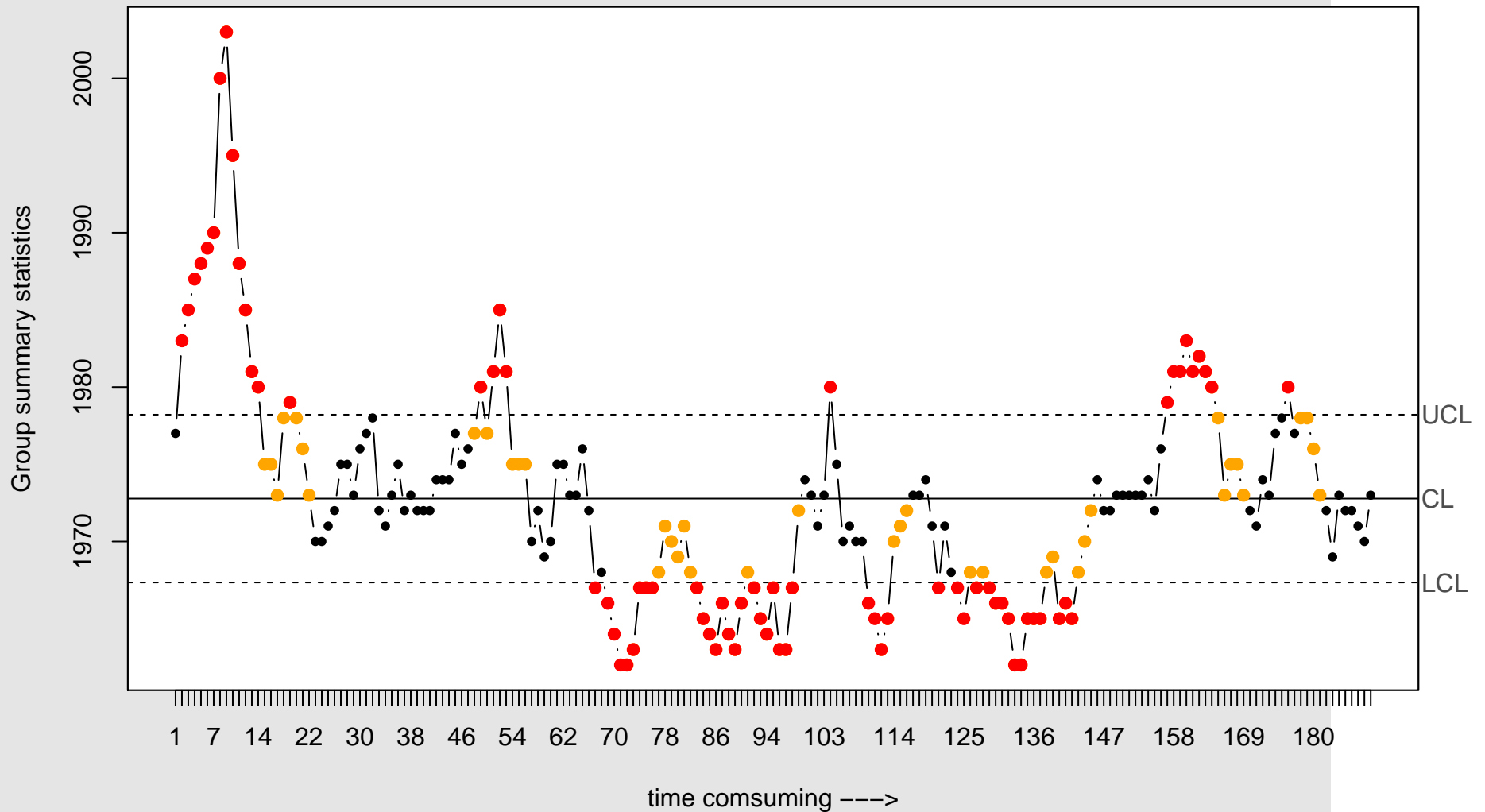


Number of groups = 189
Center = 1968.831
StdDev = 1.782481

LCL = 1963.483
UCL = 1974.178

Number beyond limits = 67
Number violating runs = 91

25th column point of this product

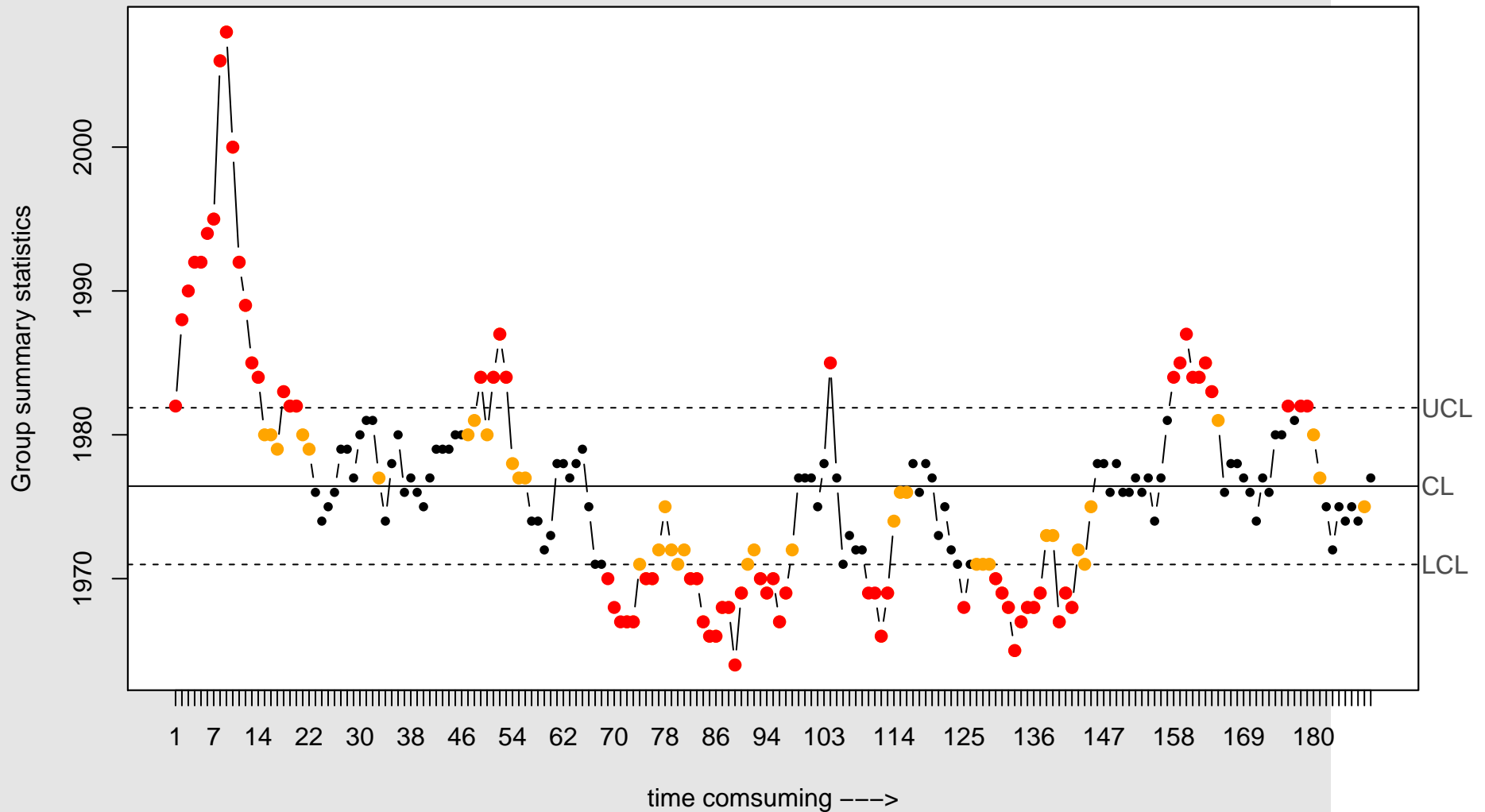


Number of groups = 189
Center = 1972.778
StdDev = 1.810774

LCL = 1967.345
UCL = 1978.21

Number beyond limits = 72
Number violating runs = 90

26th column point of this product

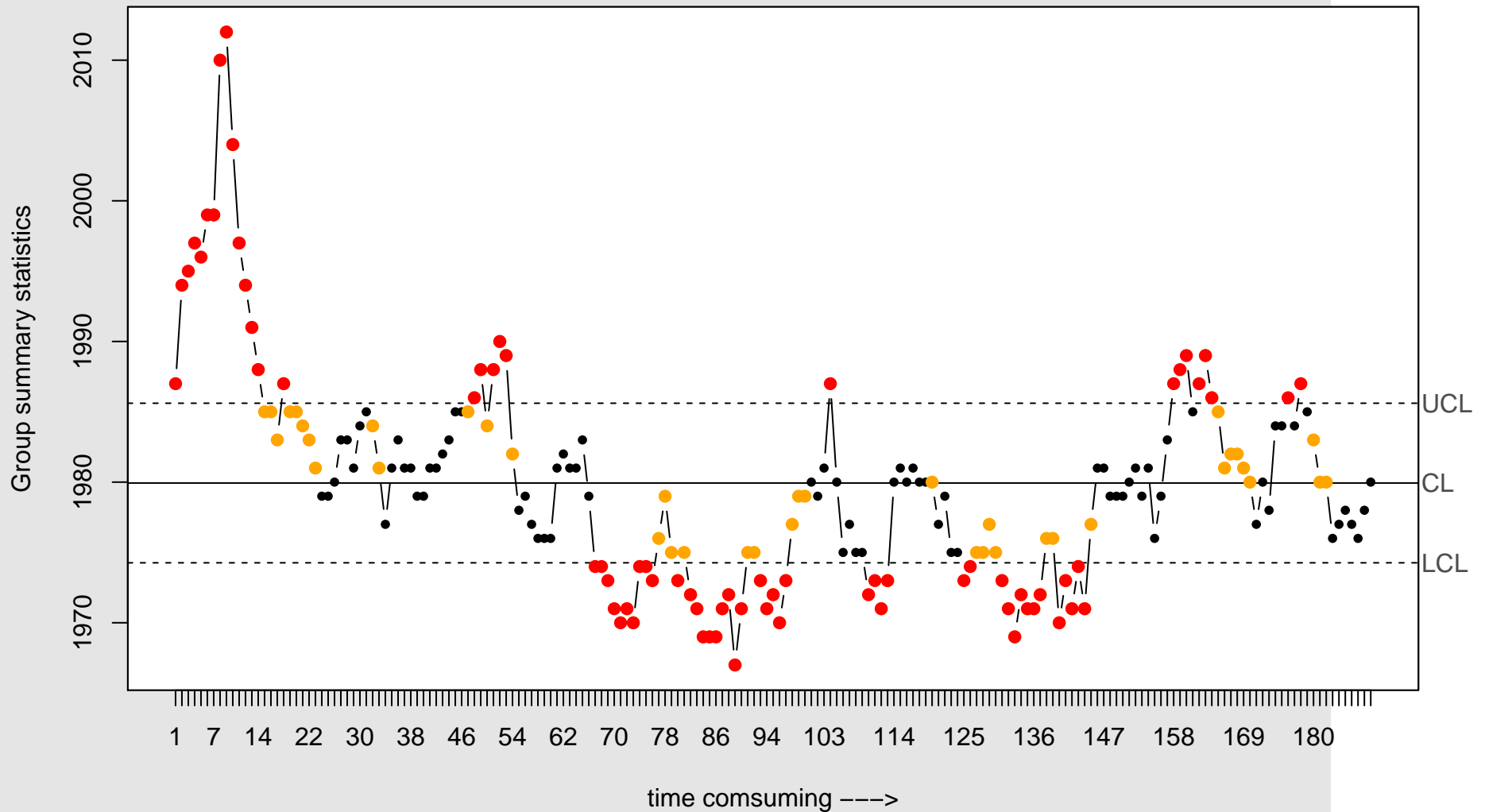


Number of groups = 189
Center = 1976.434
StdDev = 1.81549

LCL = 1970.987
UCL = 1981.88

Number beyond limits = 69
Number violating runs = 85

27th column point of this product

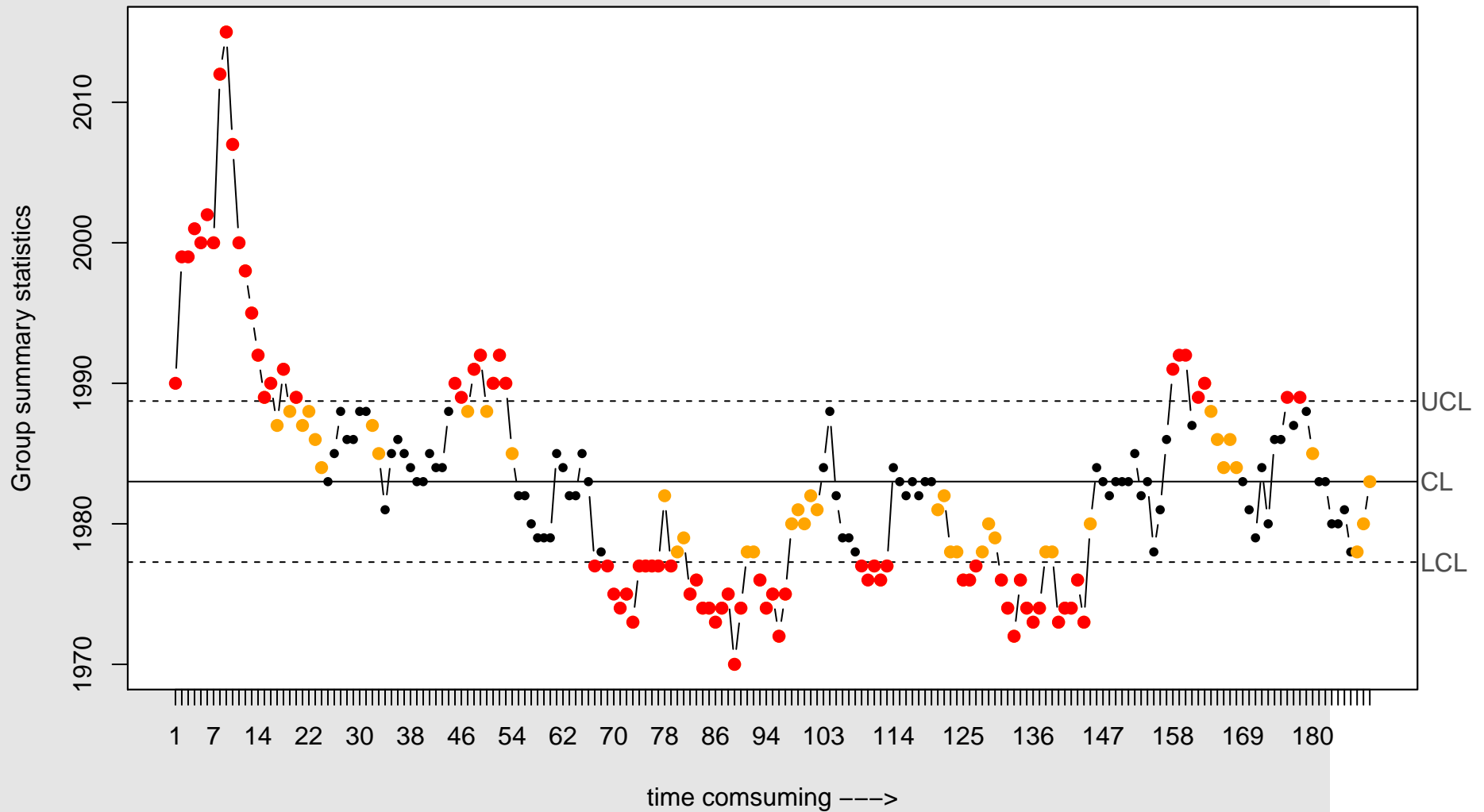


Number of groups = 189
Center = 1979.937
StdDev = 1.890939

LCL = 1974.264
UCL = 1985.609

Number beyond limits = 72
Number violating runs = 89

28th column point of this product

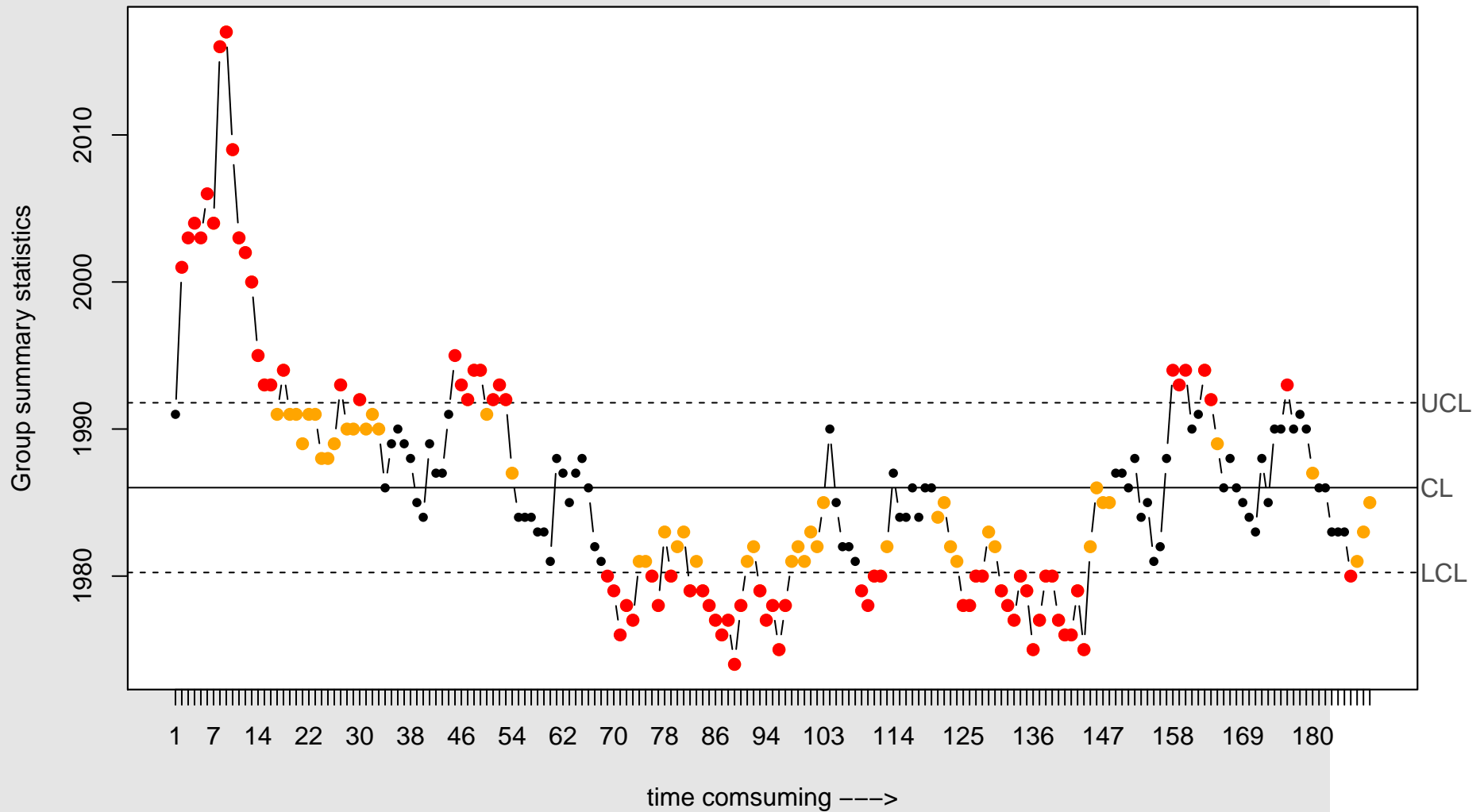


Number of groups = 189
Center = 1983.005
StdDev = 1.909801

LCL = 1977.276
UCL = 1988.735

Number beyond limits = 77
Number violating runs = 97

29th column point of this product

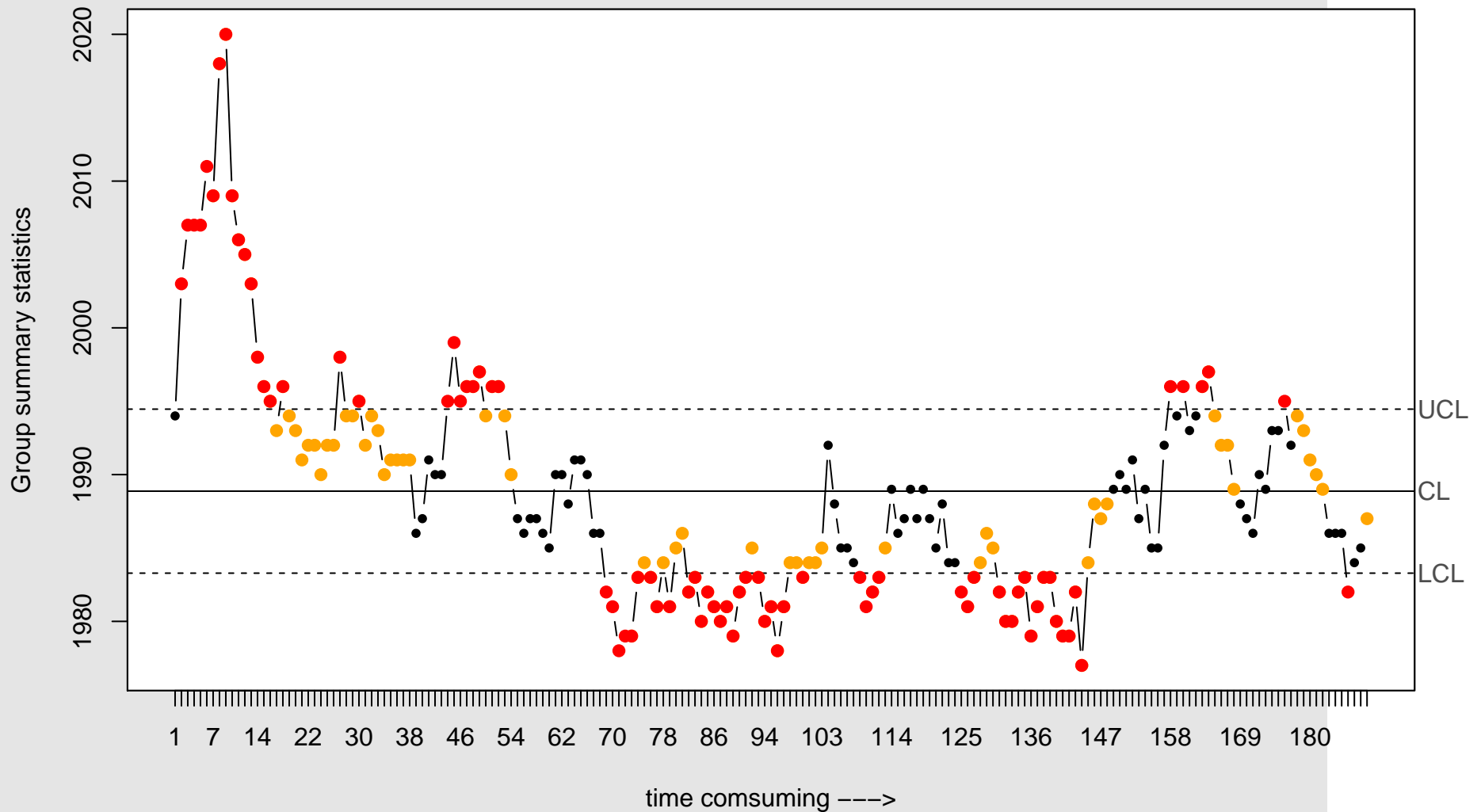


Number of groups = 189
Center = 1986.016
StdDev = 1.923947

LCL = 1980.244
UCL = 1991.788

Number beyond limits = 76
Number violating runs = 105

30th column point of this product

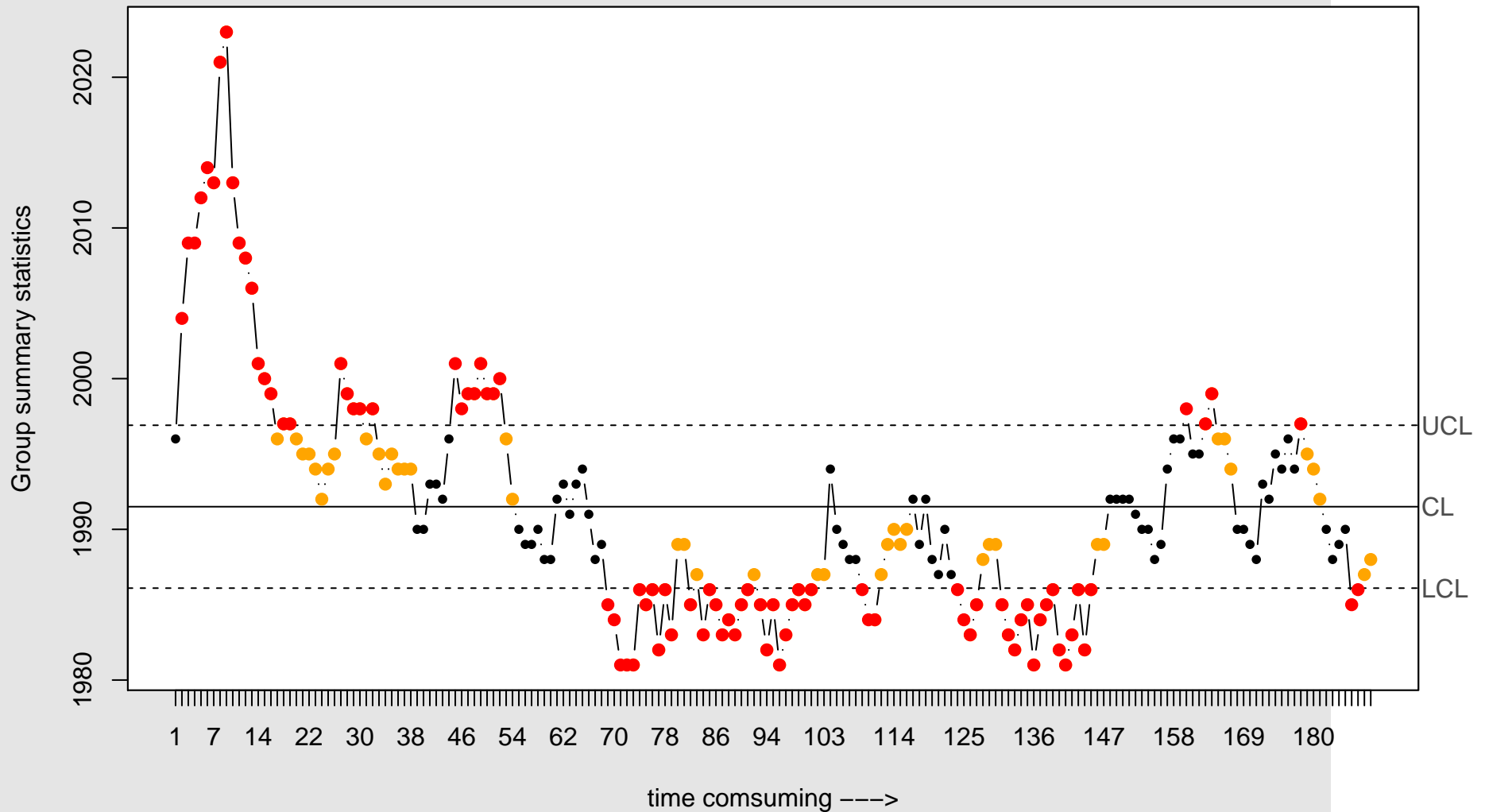


Number of groups = 189
 Center = 1988.873
 StdDev = 1.862645

LCL = 1983.285
 UCL = 1994.461

Number beyond limits = 78
 Number violating runs = 109

31th column point of this product



Number of groups = 189

Center = 1991.503

StdDev = 1.801343

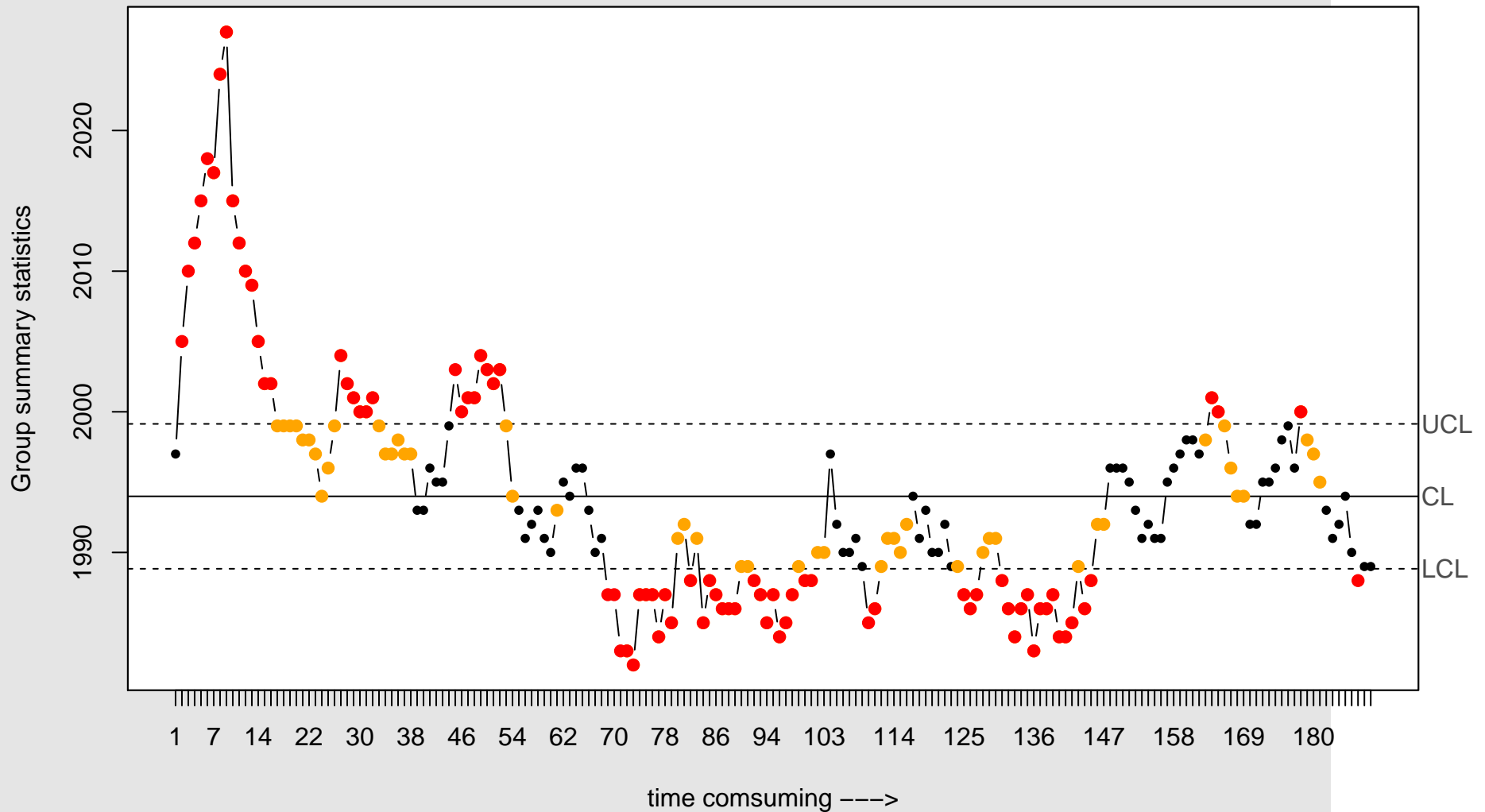
LCL = 1986.099

UCL = 1996.907

Number beyond limits = 87

Number violating runs = 111

32th column point of this product

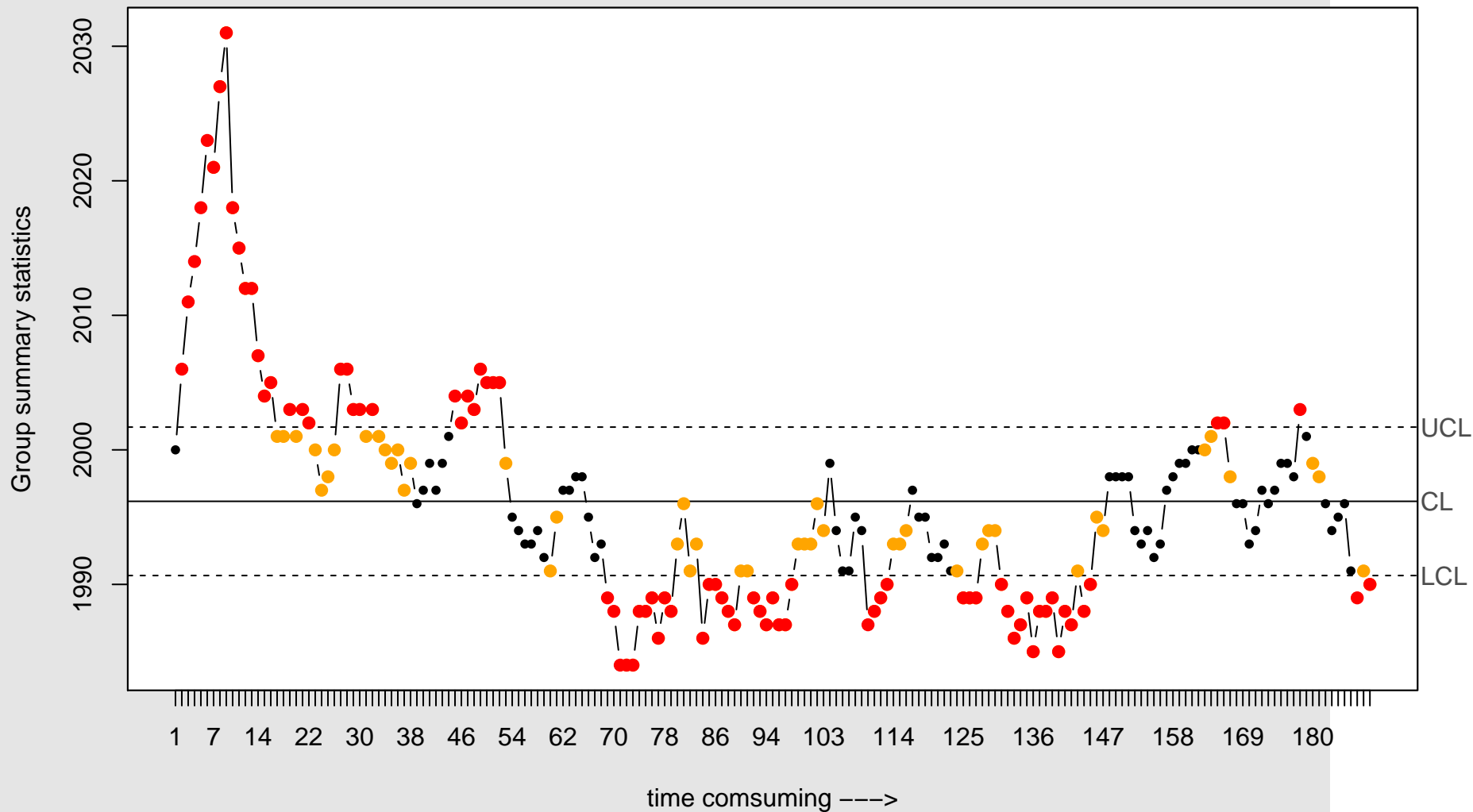


Number of groups = 189
Center = 1993.989
StdDev = 1.716463

LCL = 1988.84
UCL = 1999.139

Number beyond limits = 79
Number violating runs = 114

33th column point of this product

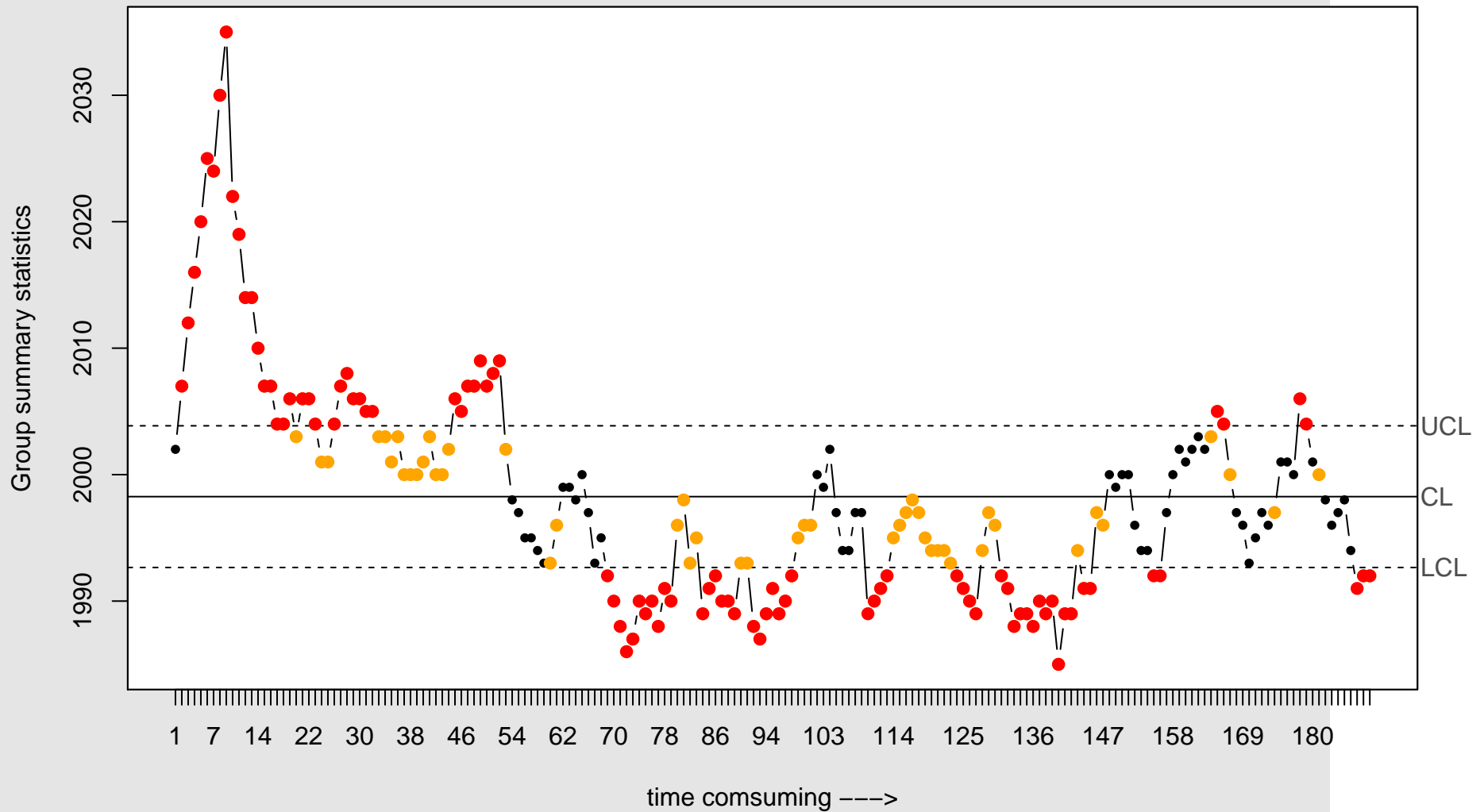


Number of groups = 189
Center = 1996.175
StdDev = 1.839067

LCL = 1990.657
UCL = 2001.692

Number beyond limits = 81
Number violating runs = 113

34th column point of this product

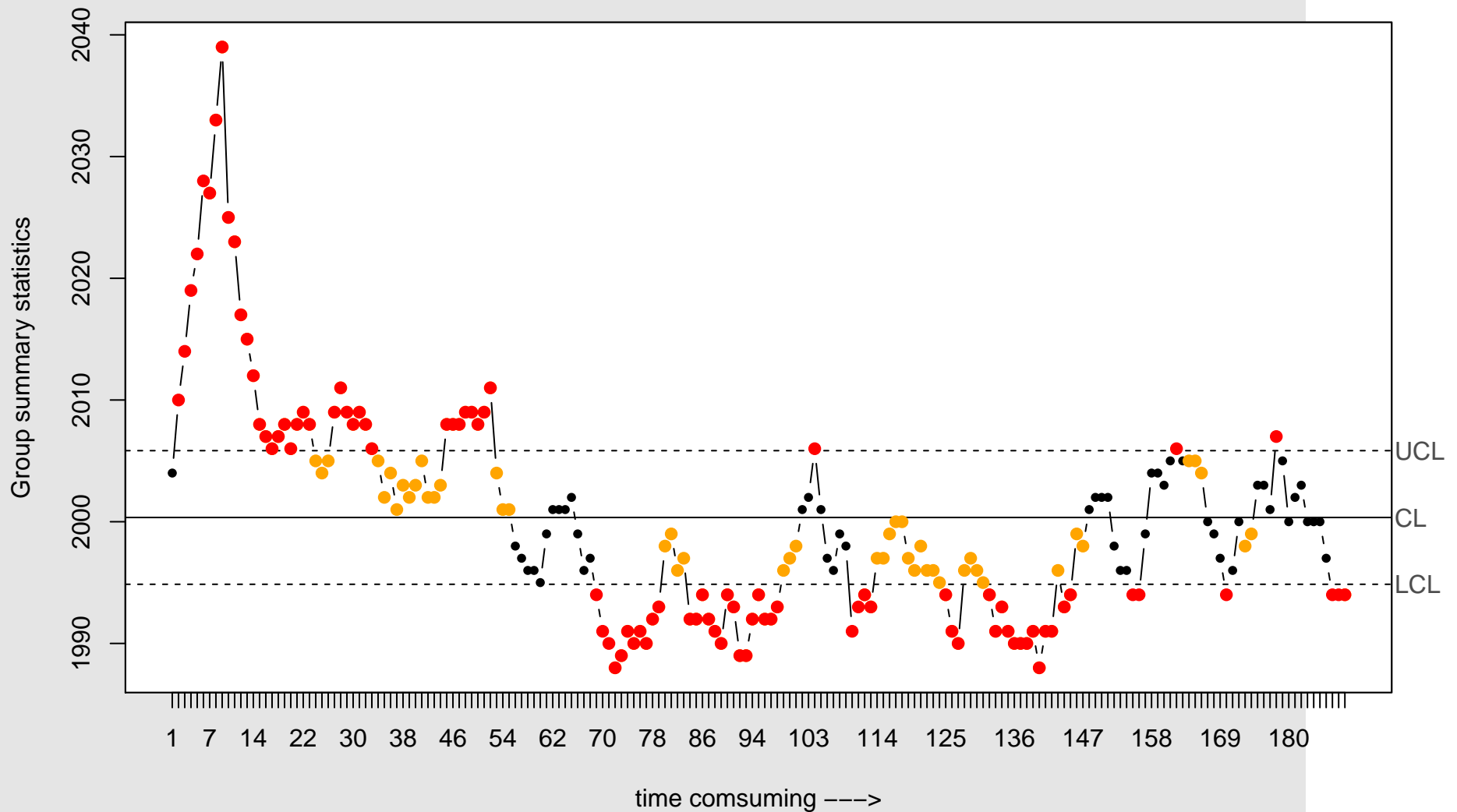


Number of groups = 189
Center = 1998.259
StdDev = 1.867361

LCL = 1992.657
UCL = 2003.861

Number beyond limits = 91
Number violating runs = 124

35th column point of this product



Number of groups = 189

Center = 2000.349

StdDev = 1.829636

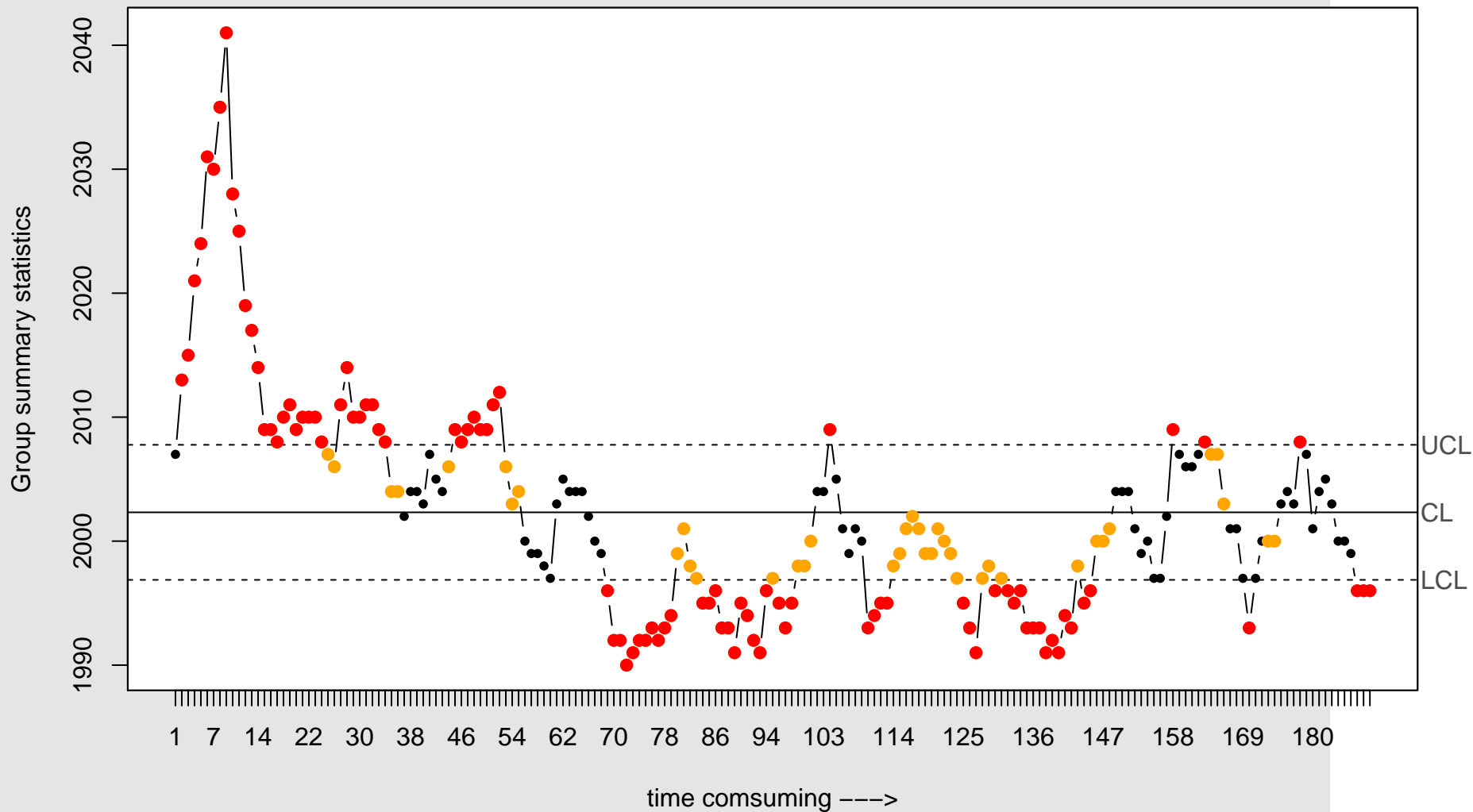
LCL = 1994.86

UCL = 2005.838

Number beyond limits = 92

Number violating runs = 121

36th column point of this product

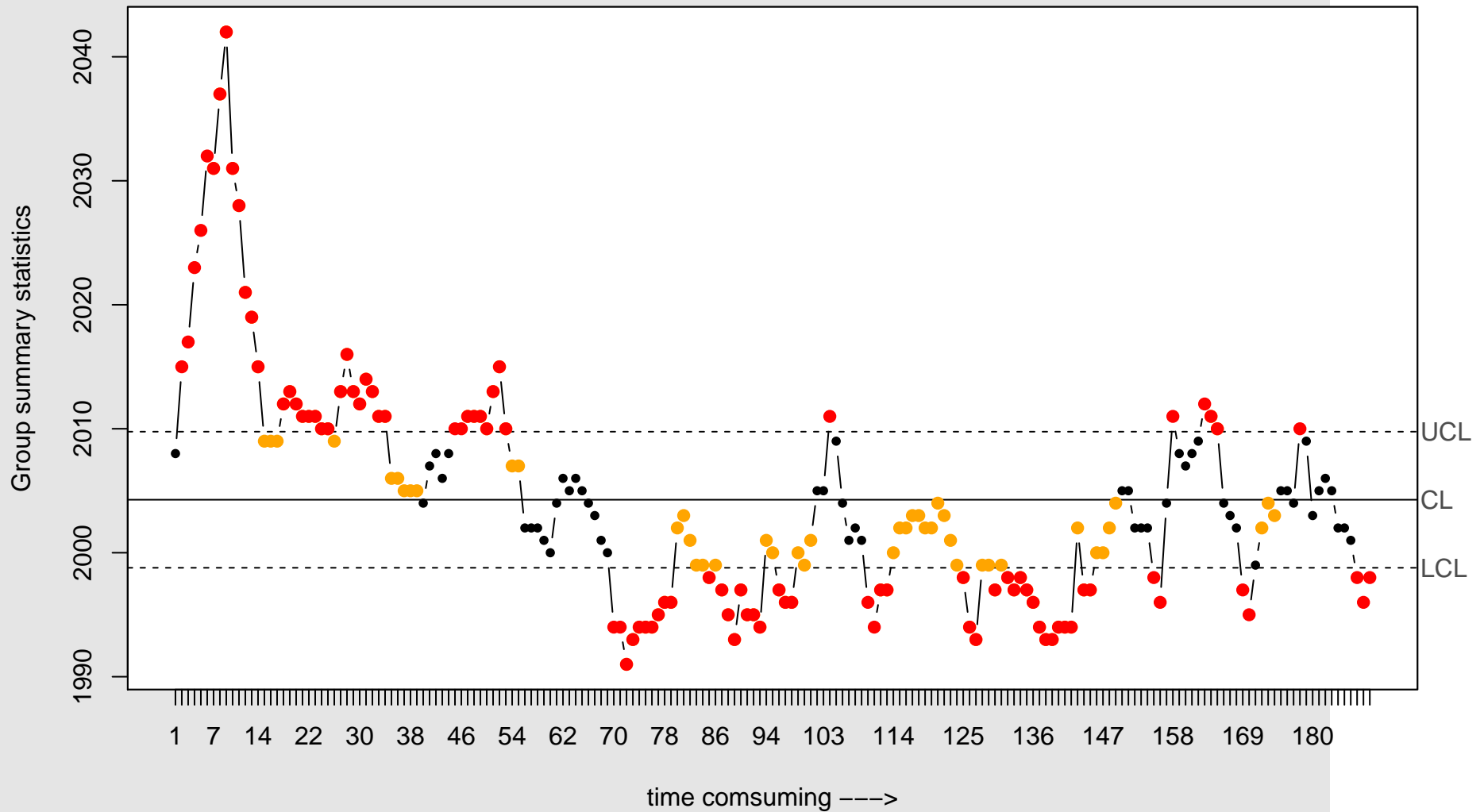


Number of groups = 189
 Center = 2002.323
 StdDev = 1.81549

LCL = 1996.876
 UCL = 2007.769

Number beyond limits = 93
 Number violating runs = 114

37th column point of this product

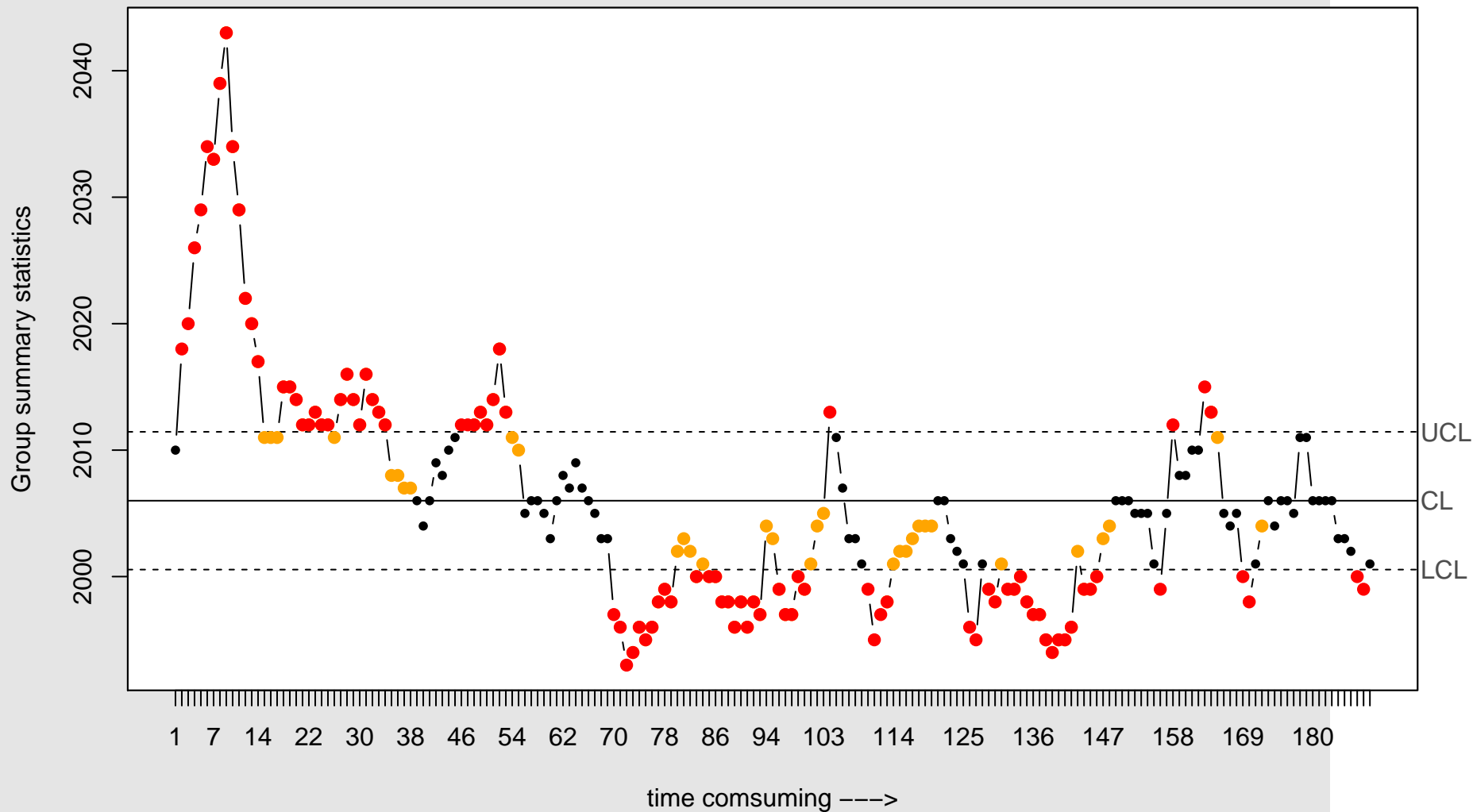


Number of groups = 189
 Center = 2004.275
 StdDev = 1.829636

LCL = 1998.786
 UCL = 2009.764

Number beyond limits = 93
 Number violating runs = 115

38th column point of this product

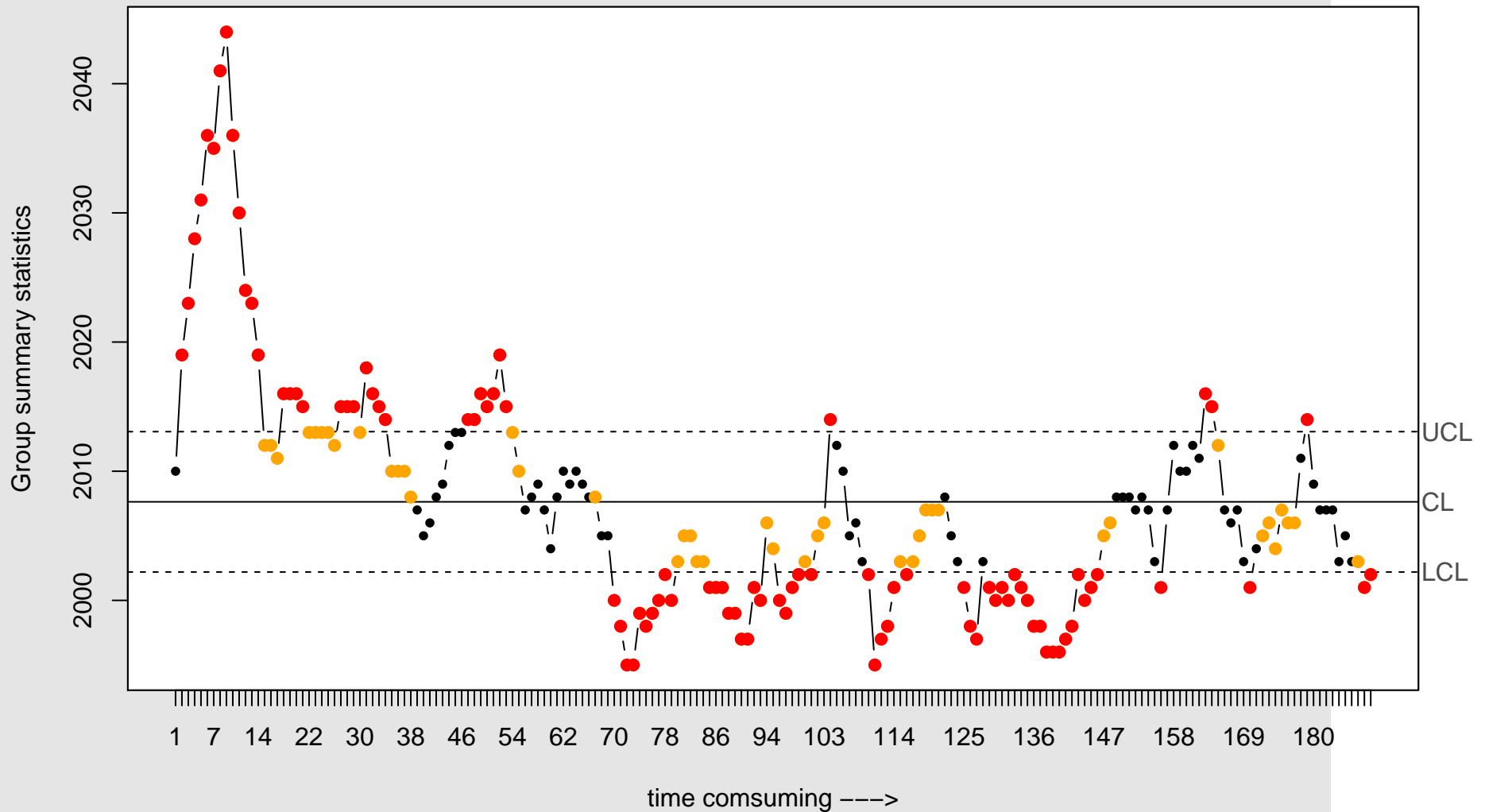


Number of groups = 189
 Center = 2006
 StdDev = 1.81549

LCL = 2000.554
 UCL = 2011.446

Number beyond limits = 93
 Number violating runs = 102

39th column point of this product

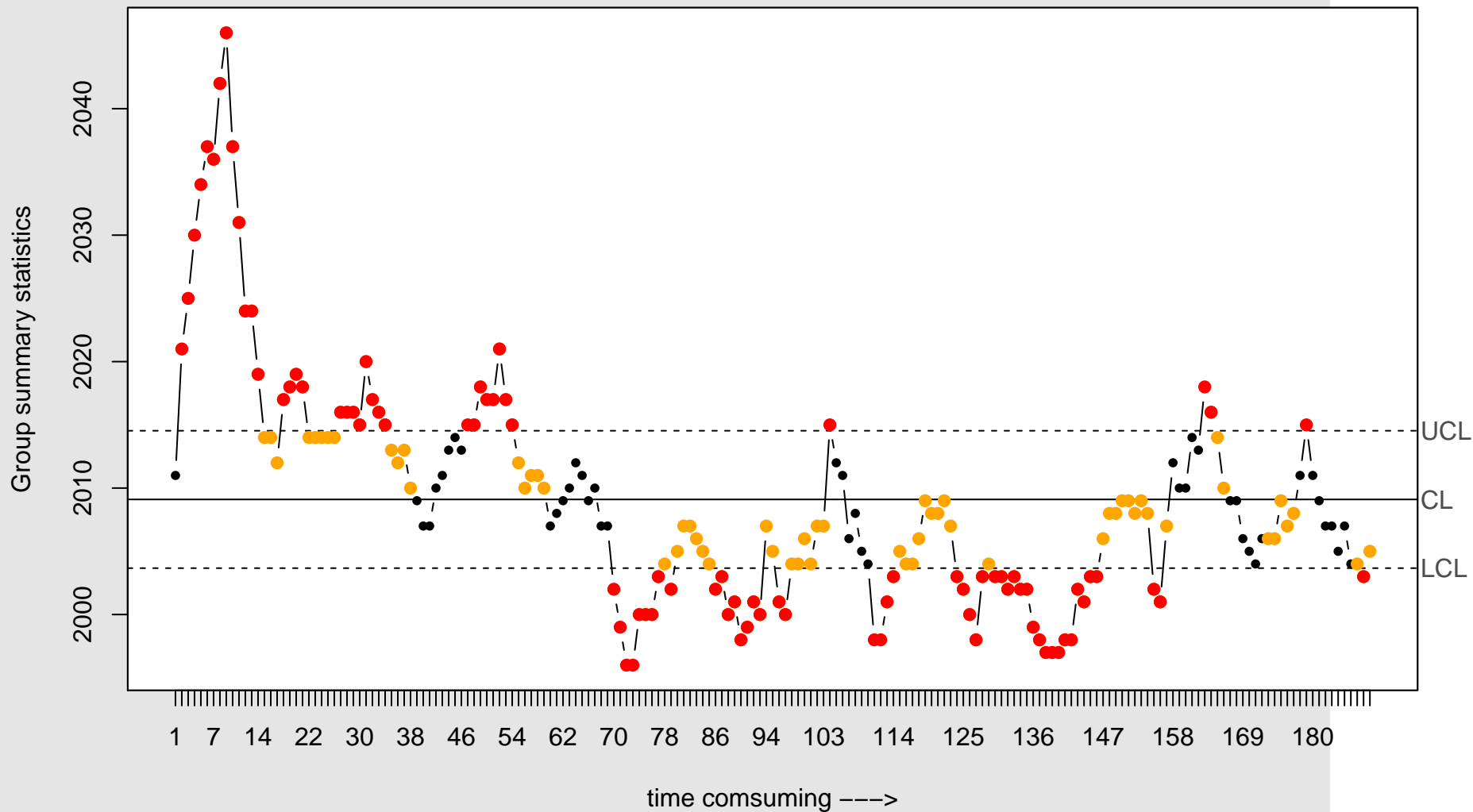


Number of groups = 189
 Center = 2007.63
 StdDev = 1.810774

LCL = 2002.197
 UCL = 2013.062

Number beyond limits = 90
 Number violating runs = 111

40th column point of this product

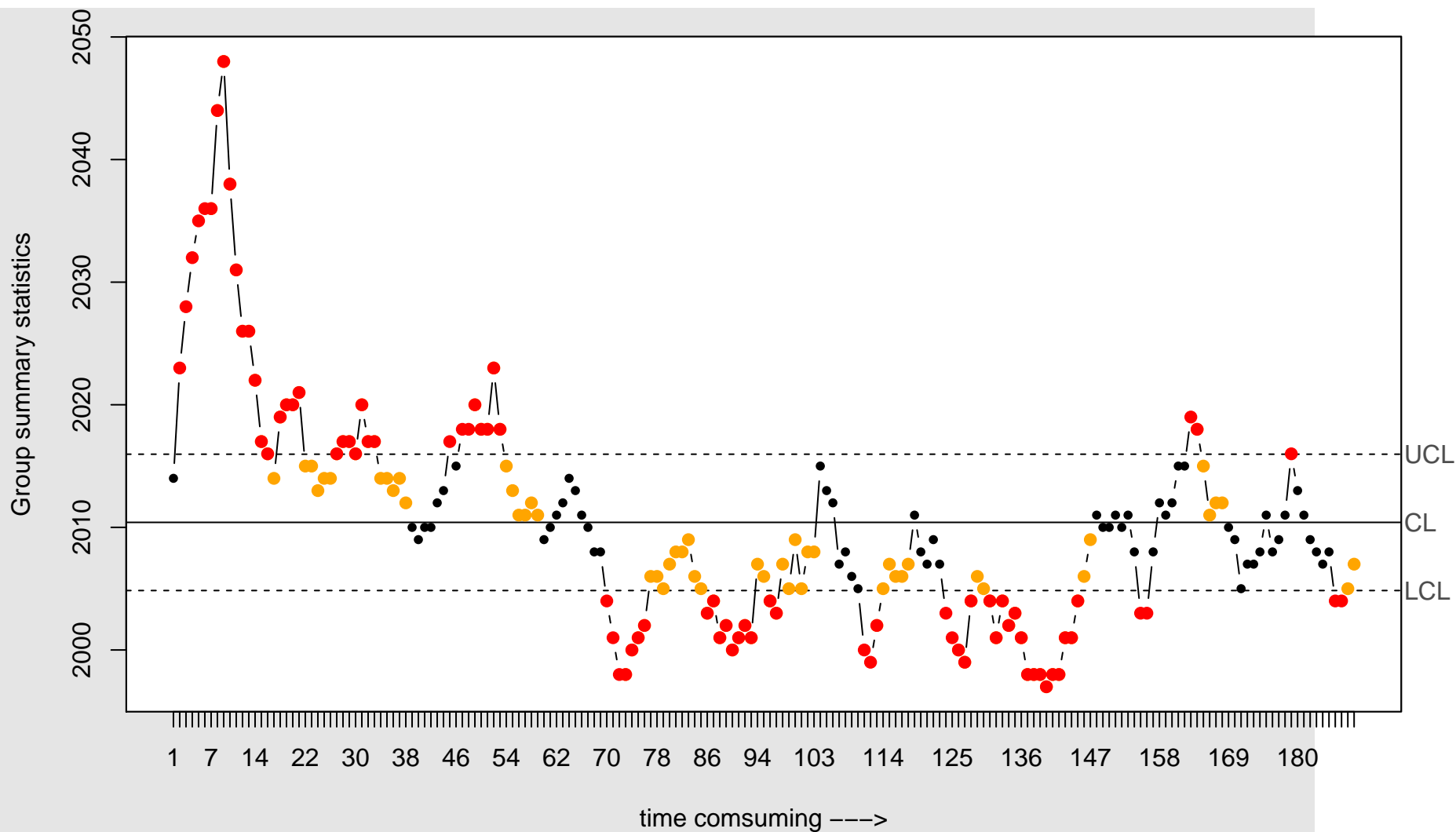


Number of groups = 189
 Center = 2009.101
 StdDev = 1.810774

LCL = 2003.668
 UCL = 2014.533

Number beyond limits = 85
 Number violating runs = 130

41th column point of this product

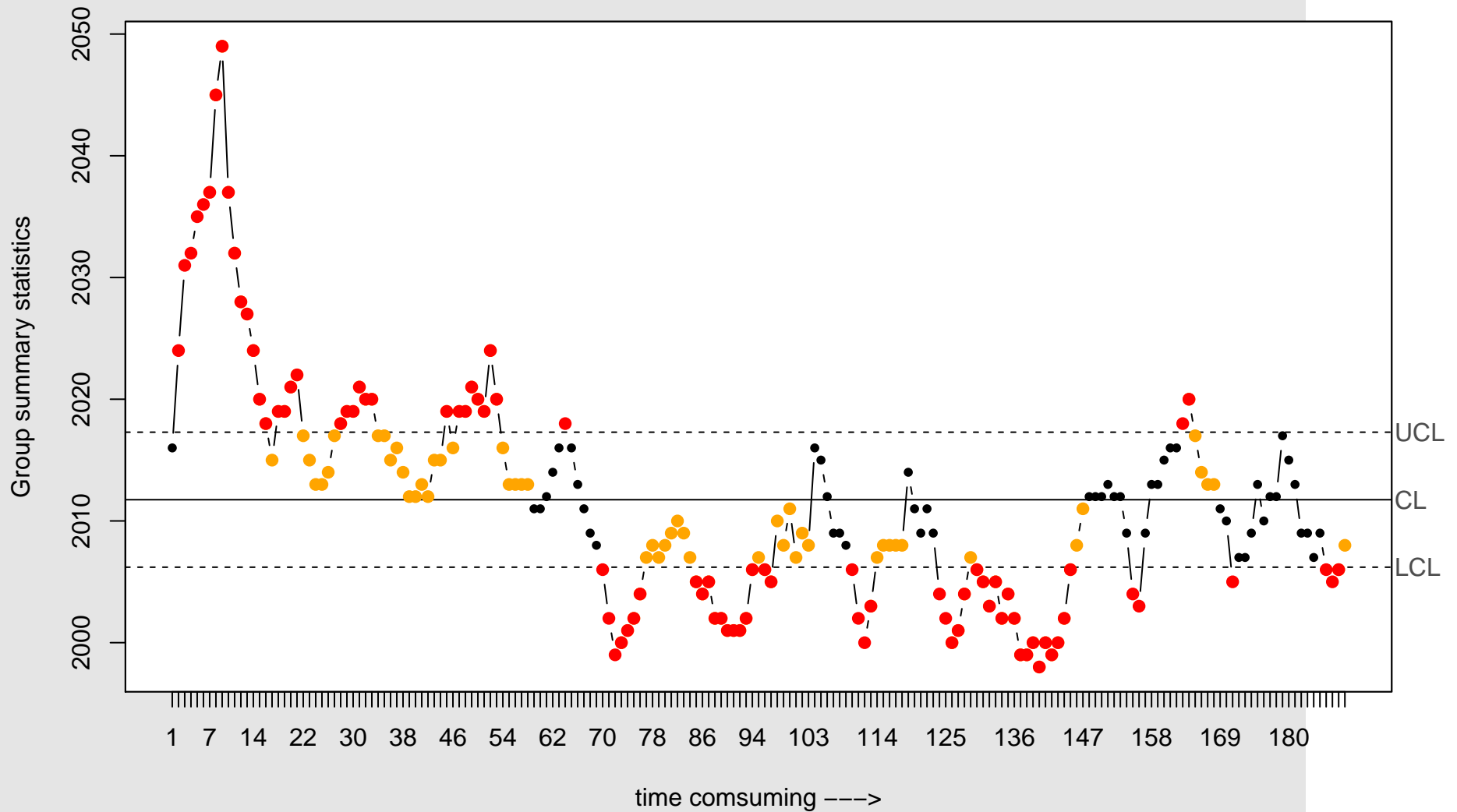


Number of groups = 189
 Center = 2010.407
 StdDev = 1.853214

LCL = 2004.848
 UCL = 2015.967

Number beyond limits = 81
 Number violating runs = 109

42th column point of this product



Number of groups = 189

Center = 2011.746

StdDev = 1.848499

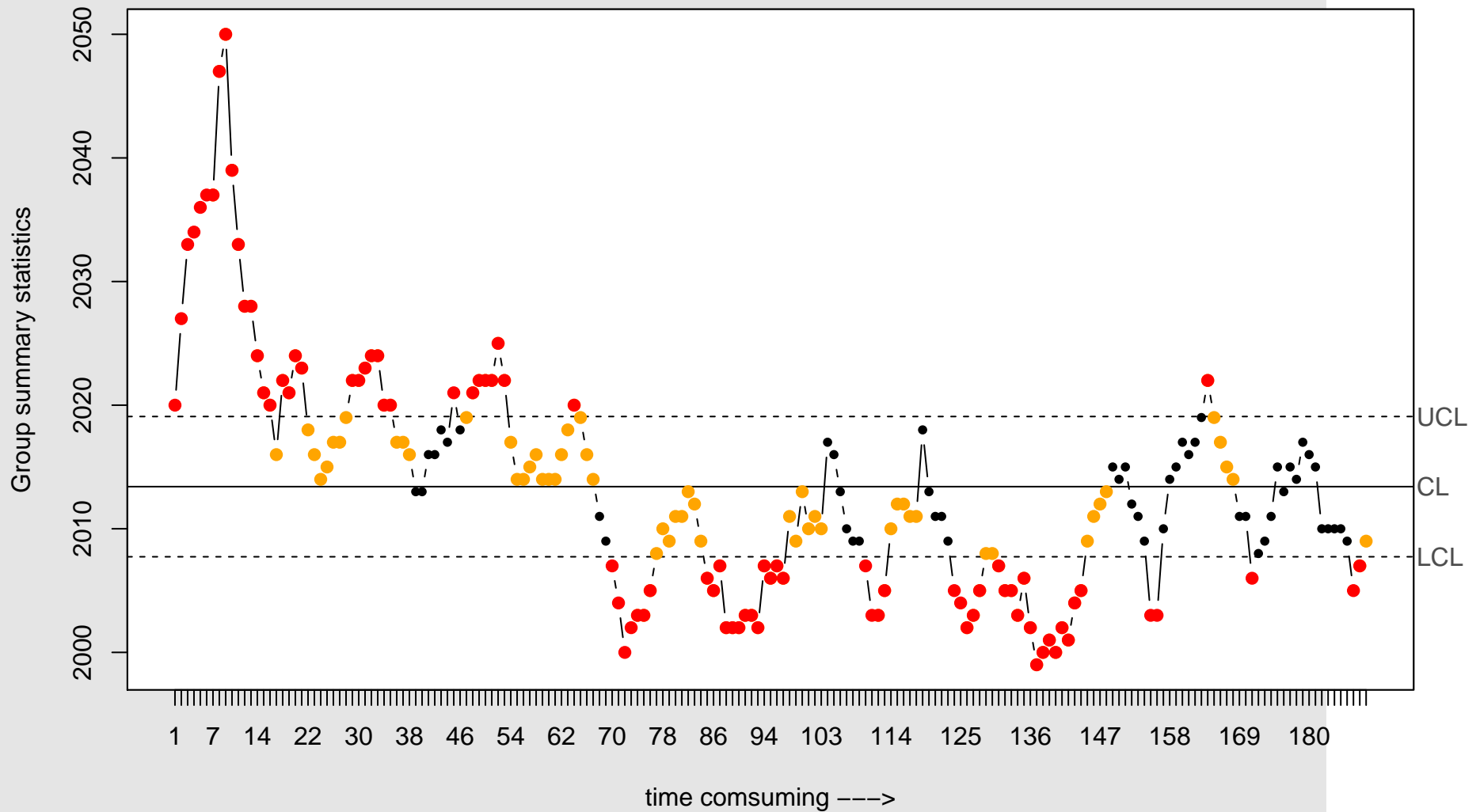
LCL = 2006.201

UCL = 2017.292

Number beyond limits = 86

Number violating runs = 118

43th column point of this product

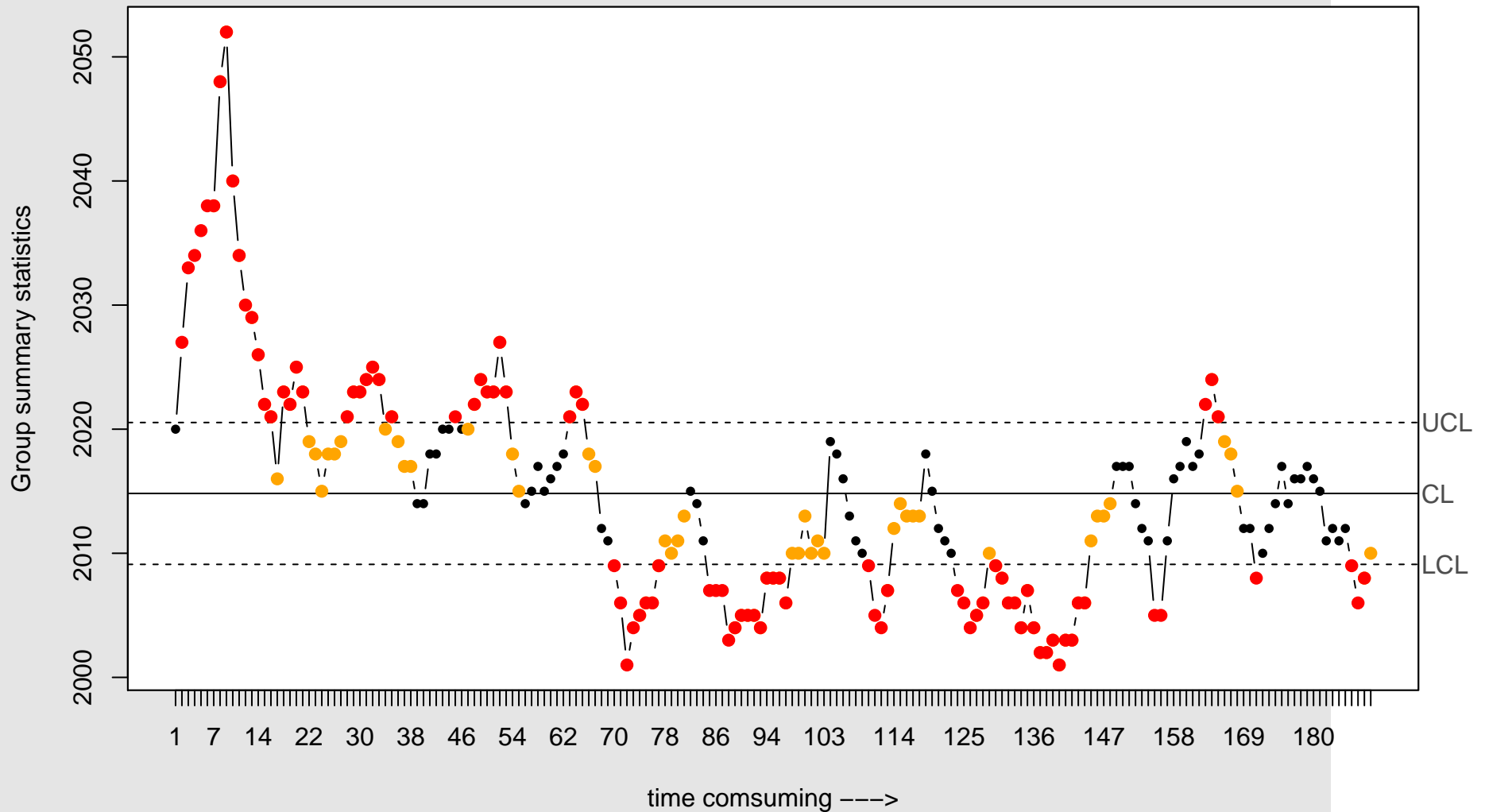


Number of groups = 189
 Center = 2013.407
 StdDev = 1.890939

LCL = 2007.735
 UCL = 2019.08

Number beyond limits = 84
 Number violating runs = 120

44th column point of this product

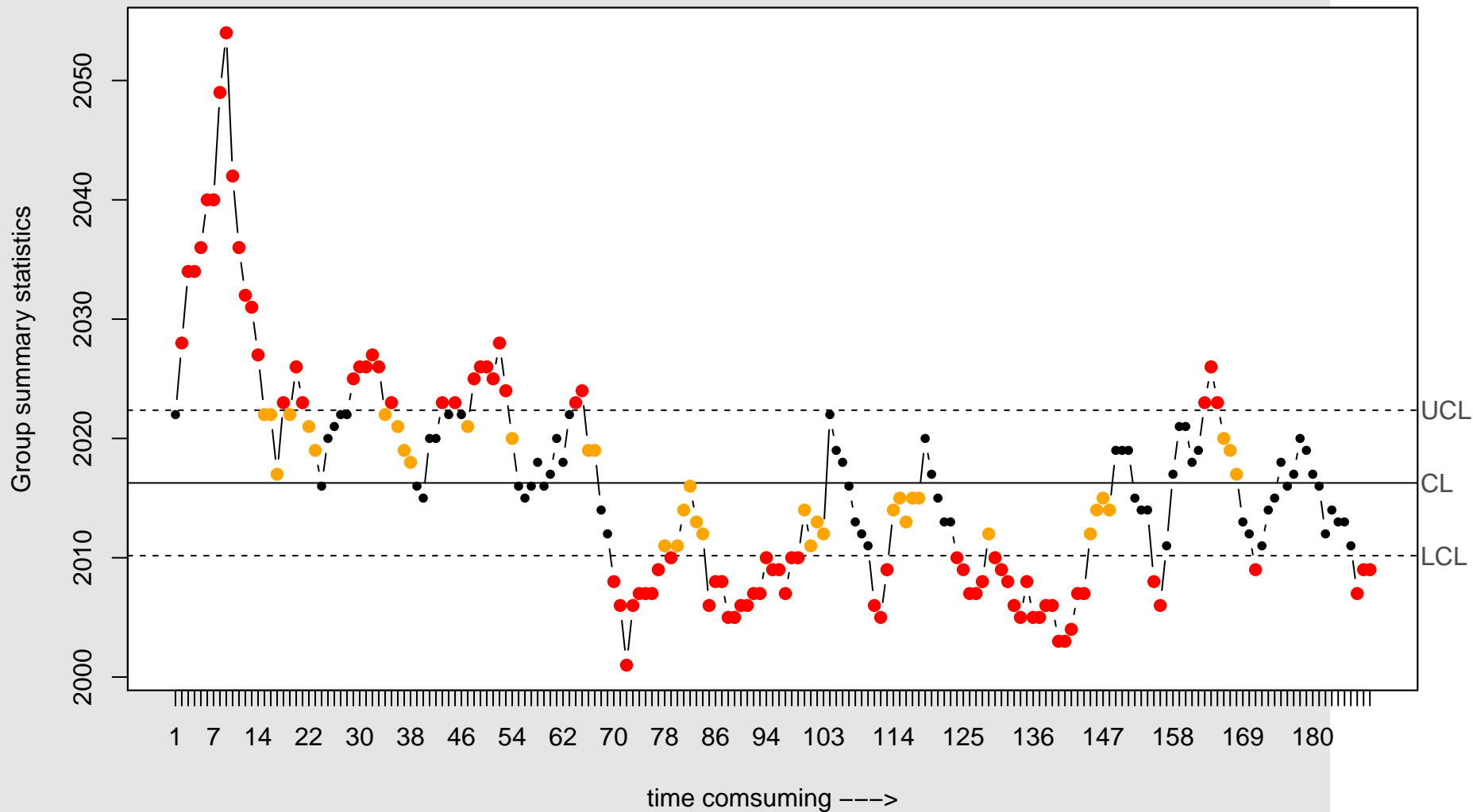


Number of groups = 189
Center = 2014.82
StdDev = 1.905085

LCL = 2009.105
UCL = 2020.535

Number beyond limits = 90
Number violating runs = 104

45th column point of this product

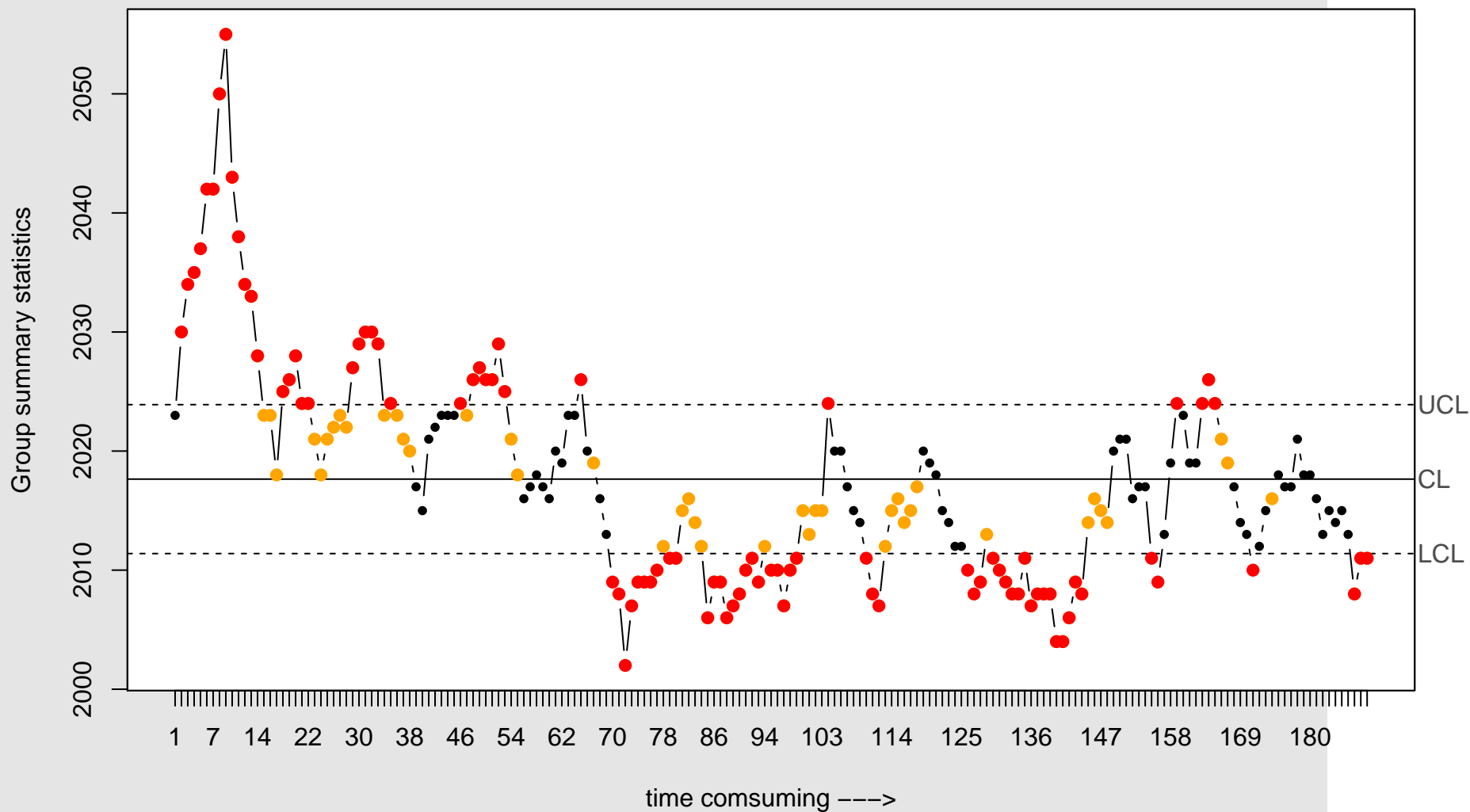


Number of groups = 189
Center = 2016.27
StdDev = 2.032405

LCL = 2010.173
UCL = 2022.367

Number beyond limits = 88
Number violating runs = 101

46th column point of this product

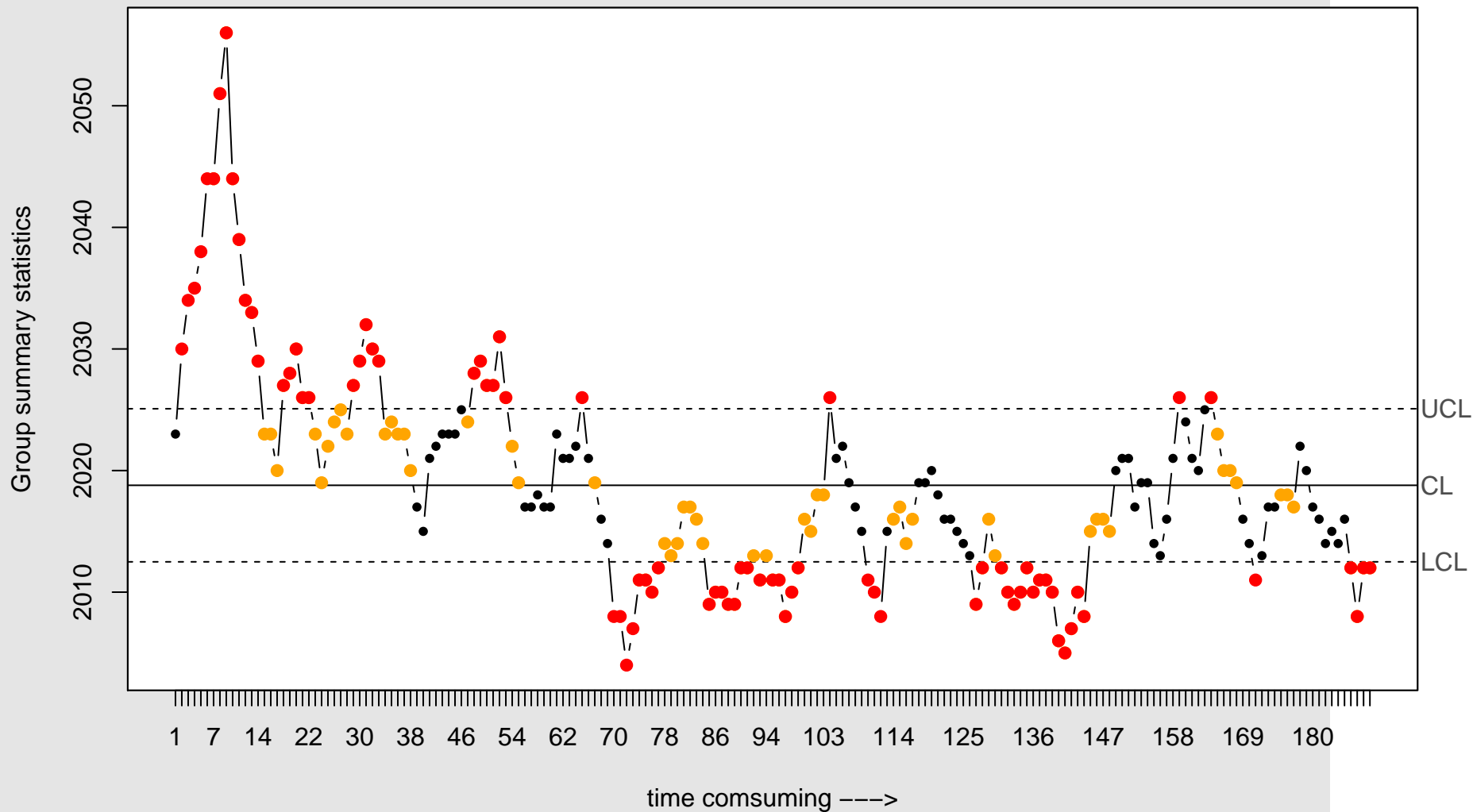


Number of groups = 189
Center = 2017.646
StdDev = 2.084276

LCL = 2011.393
UCL = 2023.898

Number beyond limits = 88
Number violating runs = 107

47th column point of this product

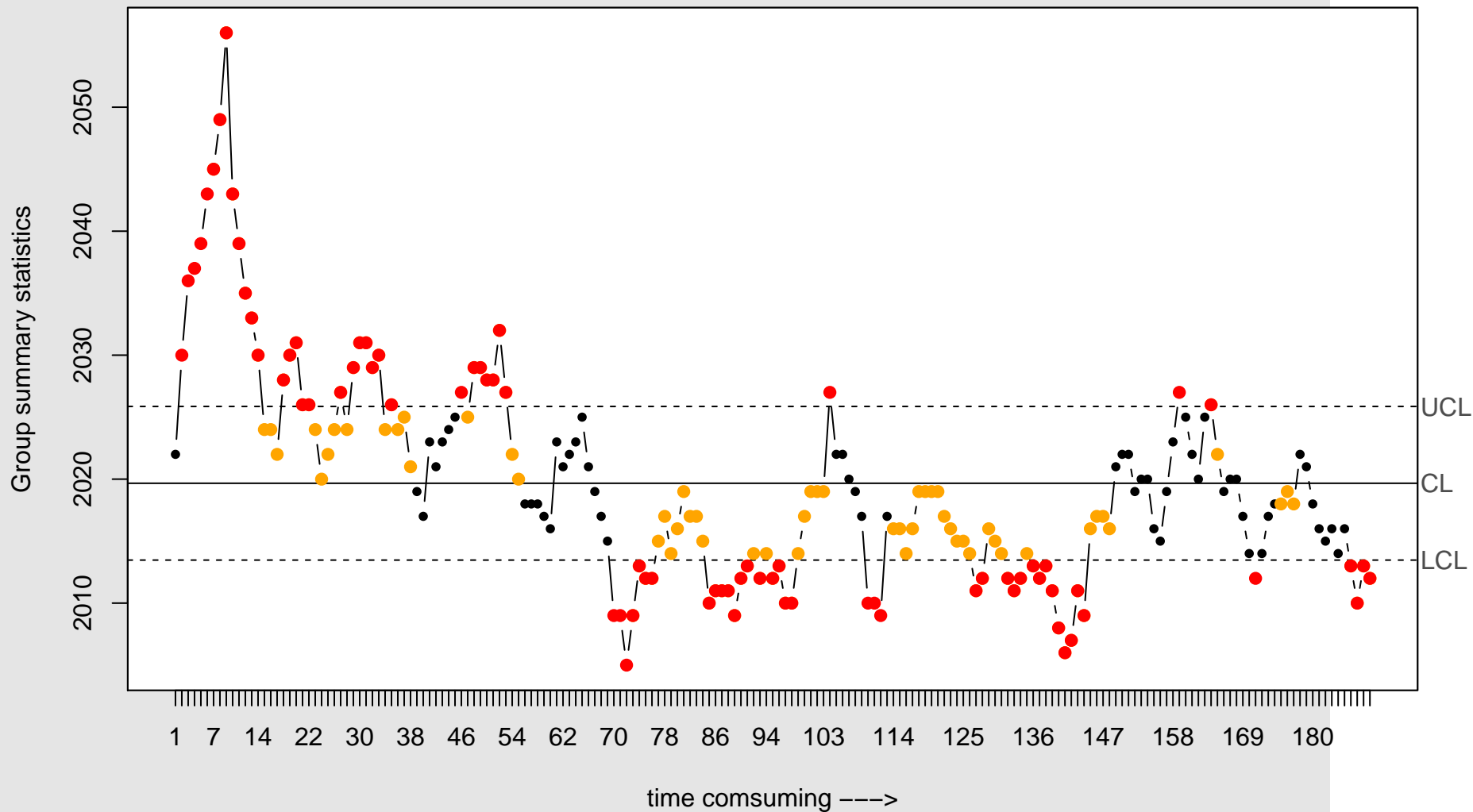


Number of groups = 189
 Center = 2018.788
 StdDev = 2.098423

LCL = 2012.493
 UCL = 2025.084

Number beyond limits = 78
 Number violating runs = 110

48th column point of this product

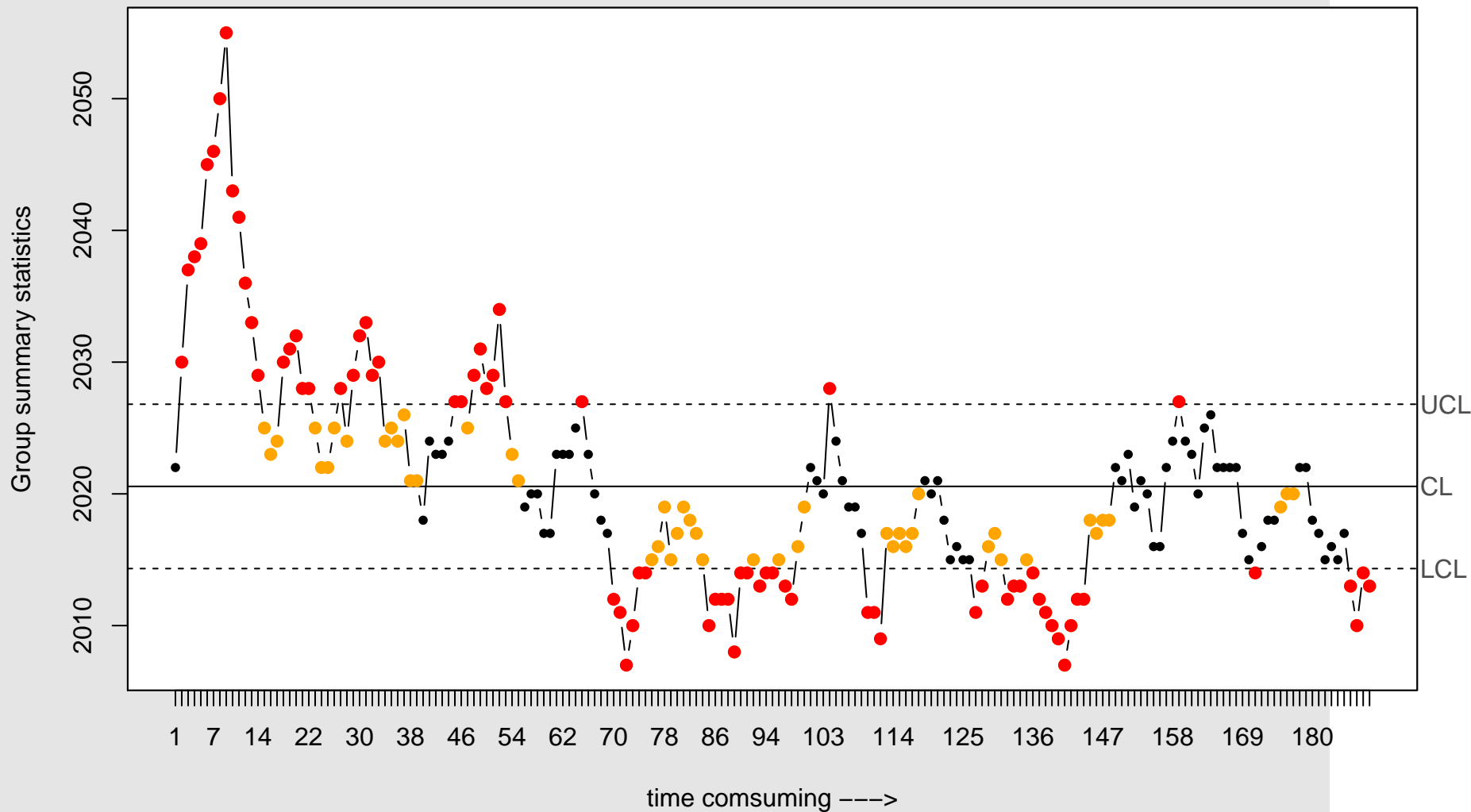


Number of groups = 189
Center = 2019.667
StdDev = 2.065414

LCL = 2013.47
UCL = 2025.863

Number beyond limits = 76
Number violating runs = 116

49th column point of this product

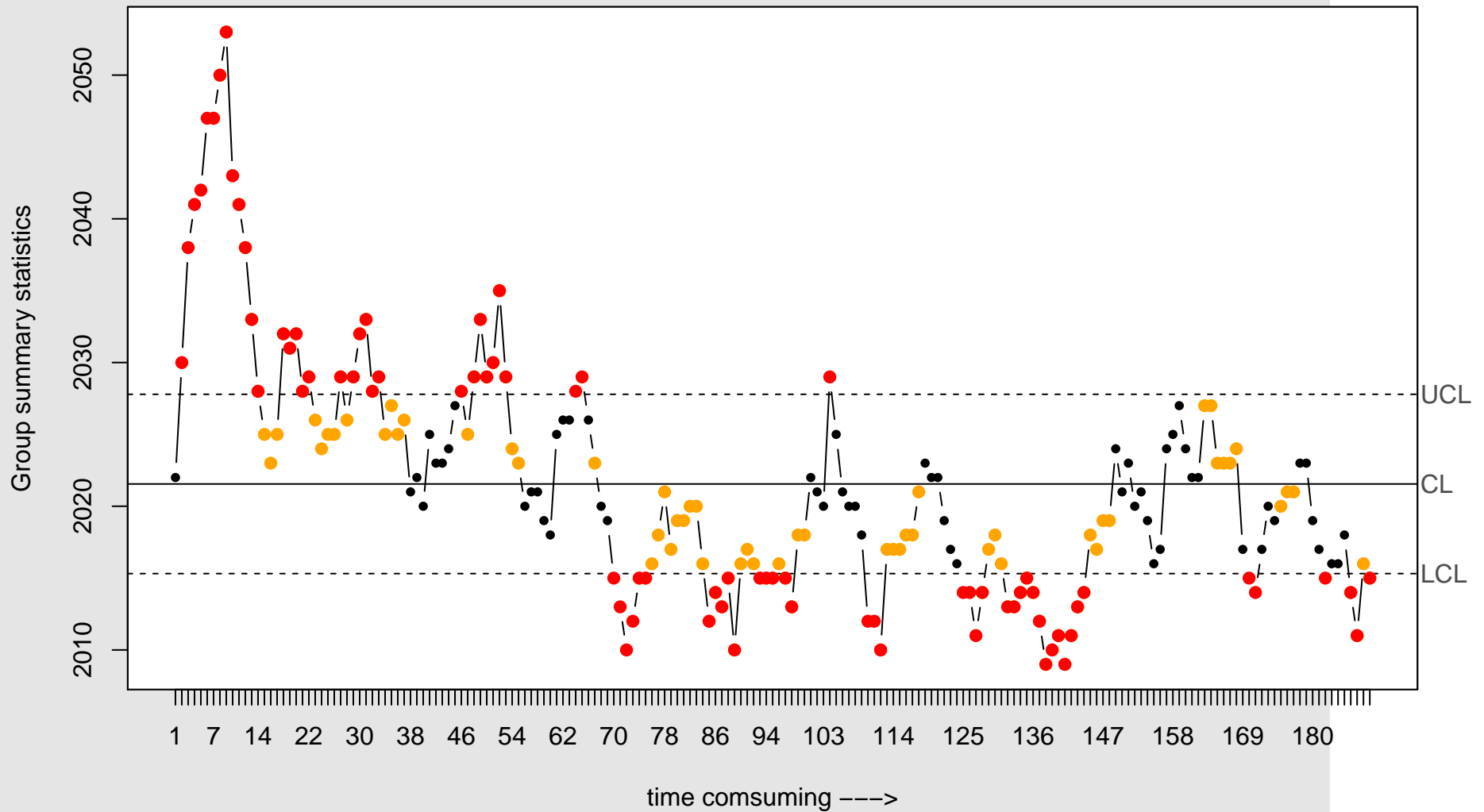


Number of groups = 189
Center = 2020.566
StdDev = 2.079561

LCL = 2014.327
UCL = 2026.805

Number beyond limits = 75
Number violating runs = 104

50th column point of this product

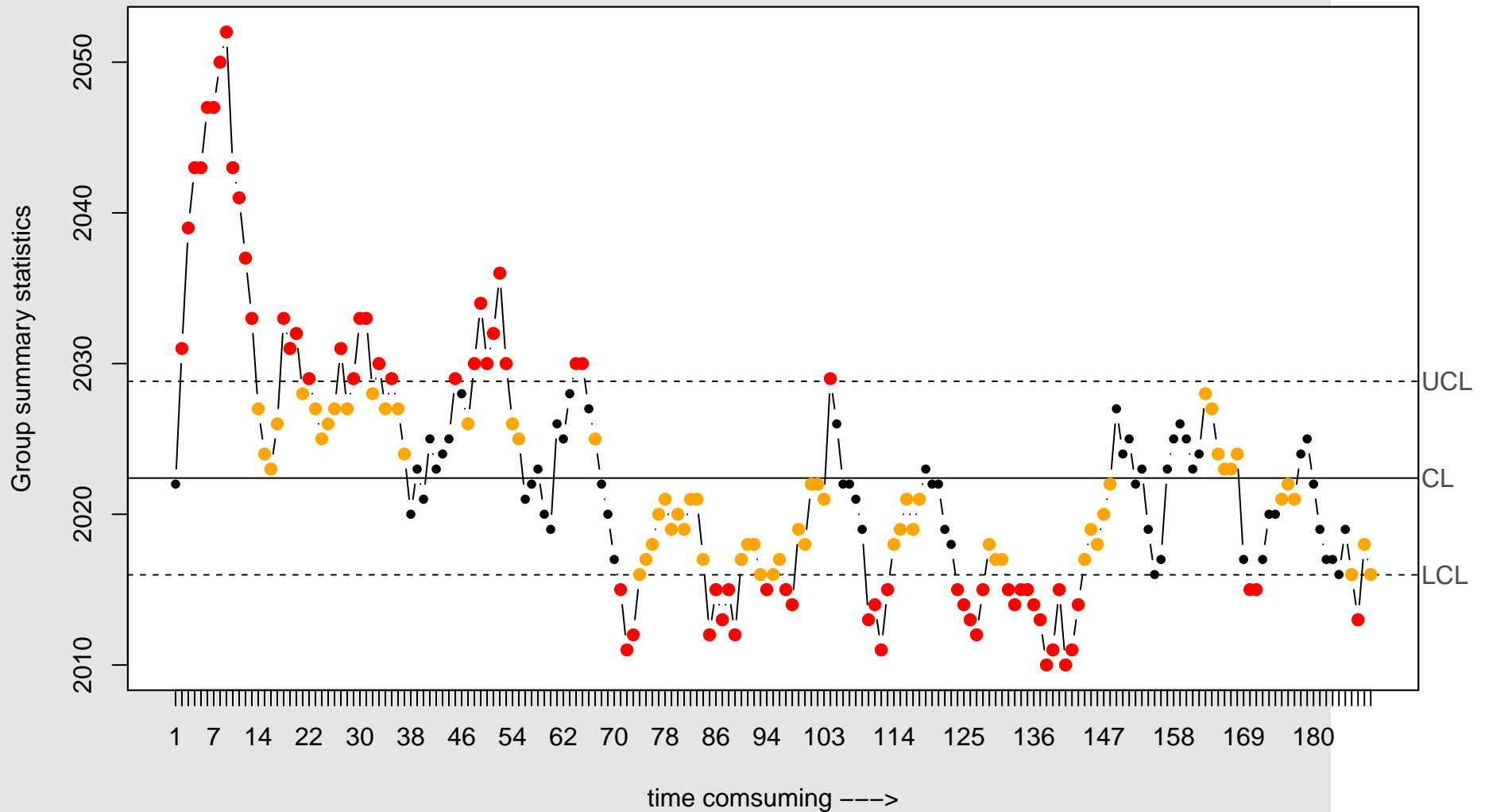


Number of groups = 189
Center = 2021.55
StdDev = 2.079561

LCL = 2015.312
UCL = 2027.789

Number beyond limits = 76
Number violating runs = 109

51th column point of this product

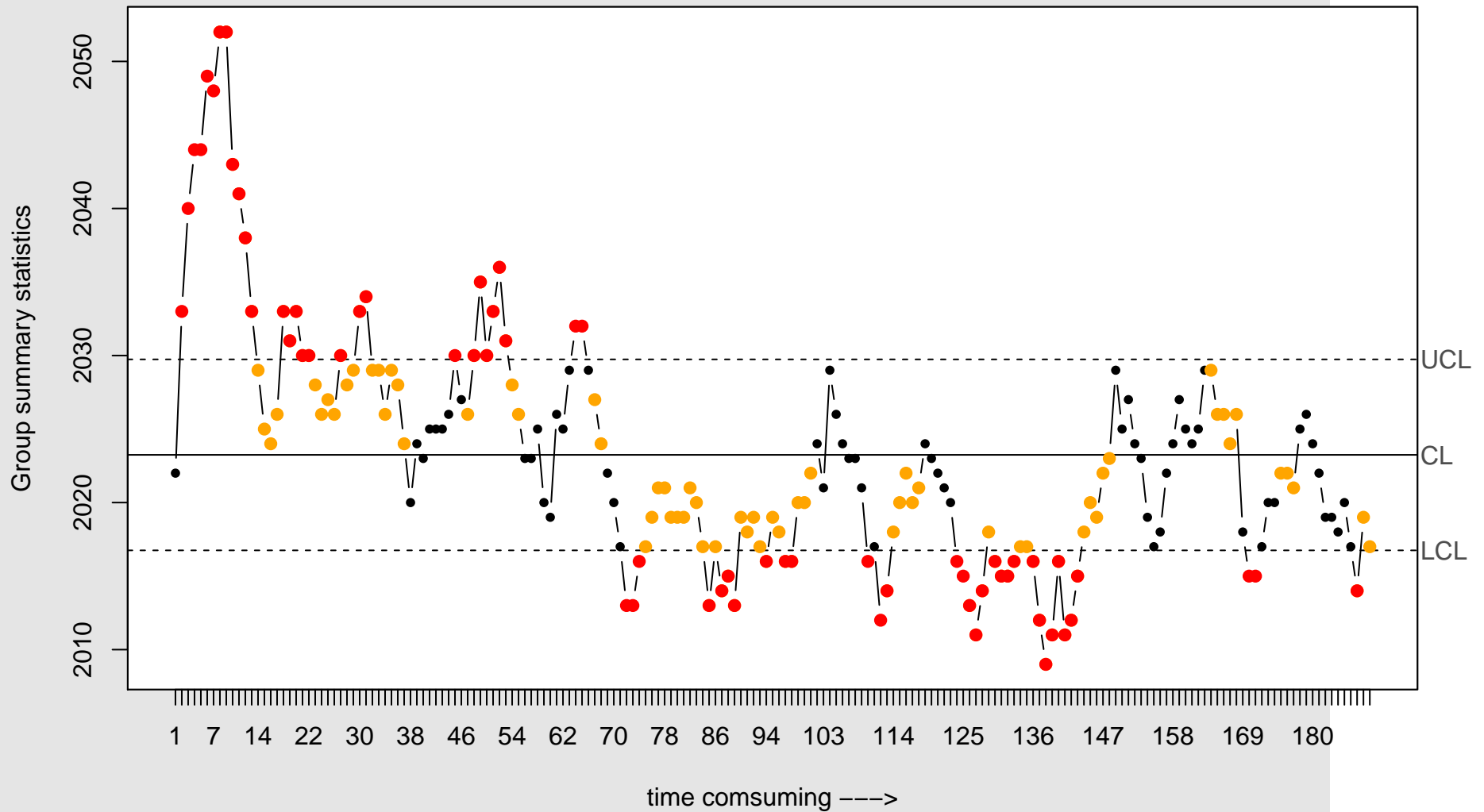


Number of groups = 189
Center = 2022.402
StdDev = 2.140863

LCL = 2015.98
UCL = 2028.825

Number beyond limits = 67
Number violating runs = 113

52th column point of this product

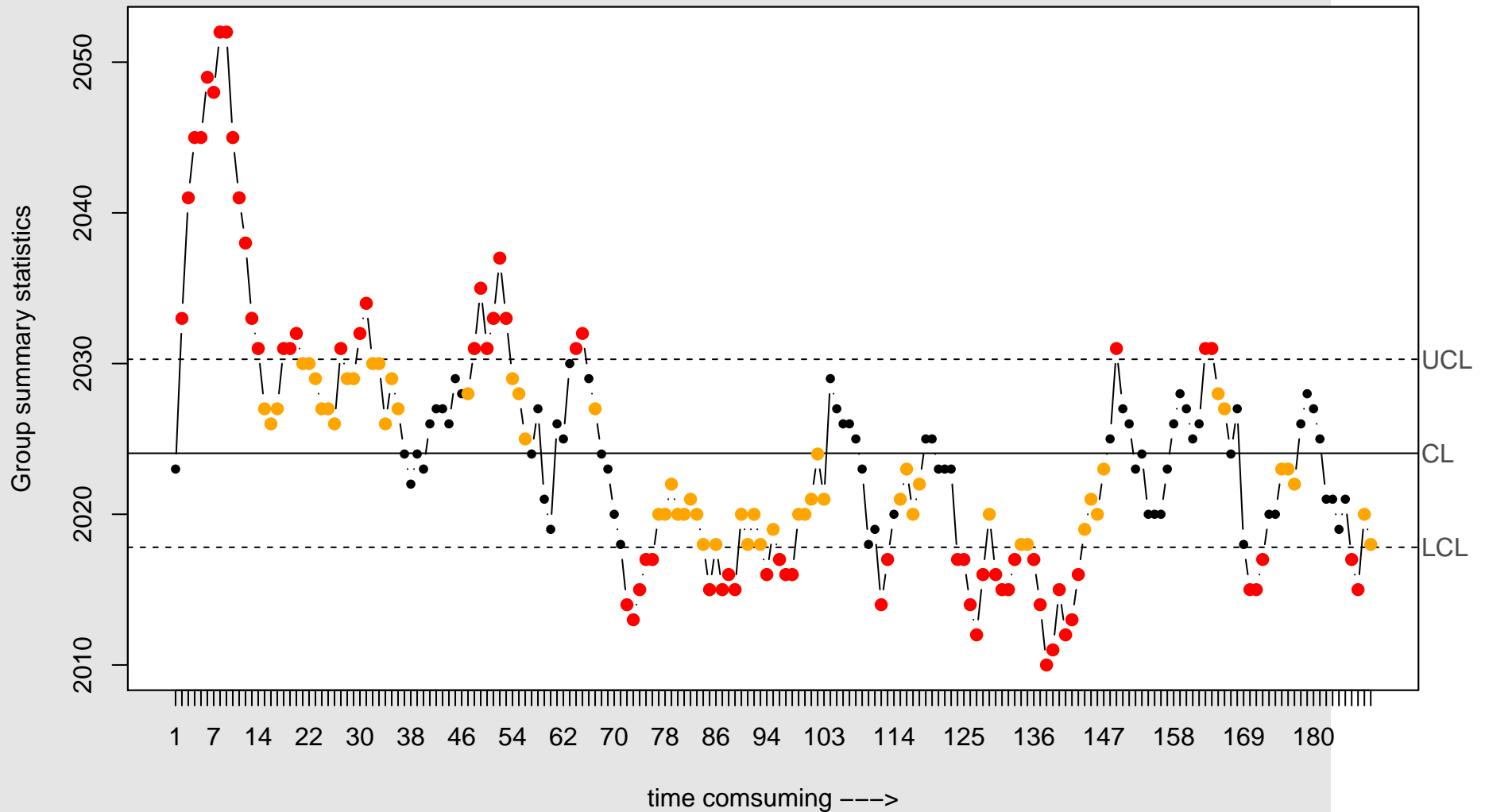


Number of groups = 189
 Center = 2023.243
 StdDev = 2.164441

LCL = 2016.75
 UCL = 2029.737

Number beyond limits = 62
 Number violating runs = 108

53th column point of this product

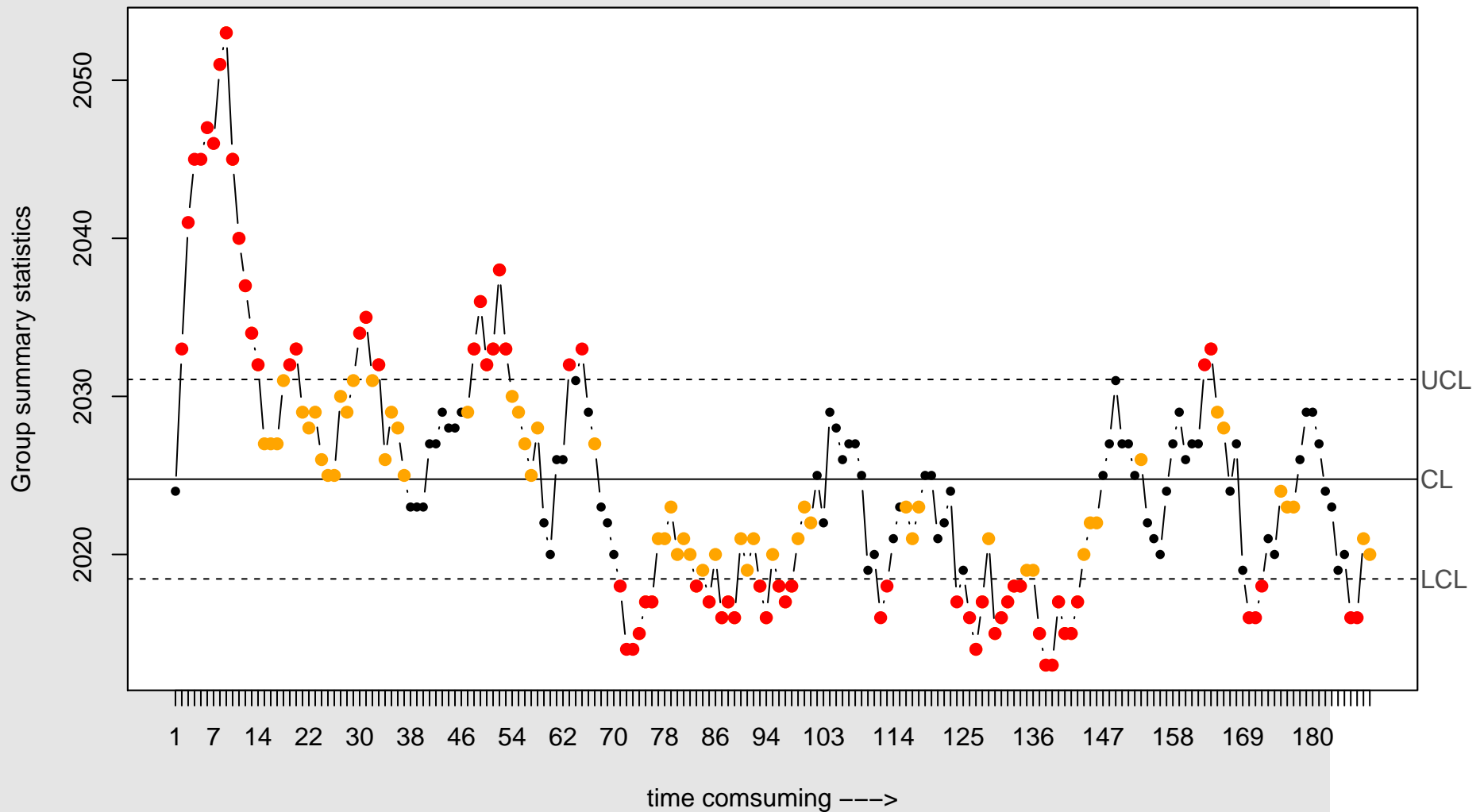


Number of groups = 189
Center = 2024.048
StdDev = 2.079561

LCL = 2017.809
UCL = 2030.286

Number beyond limits = 67
Number violating runs = 103

54th column point of this product

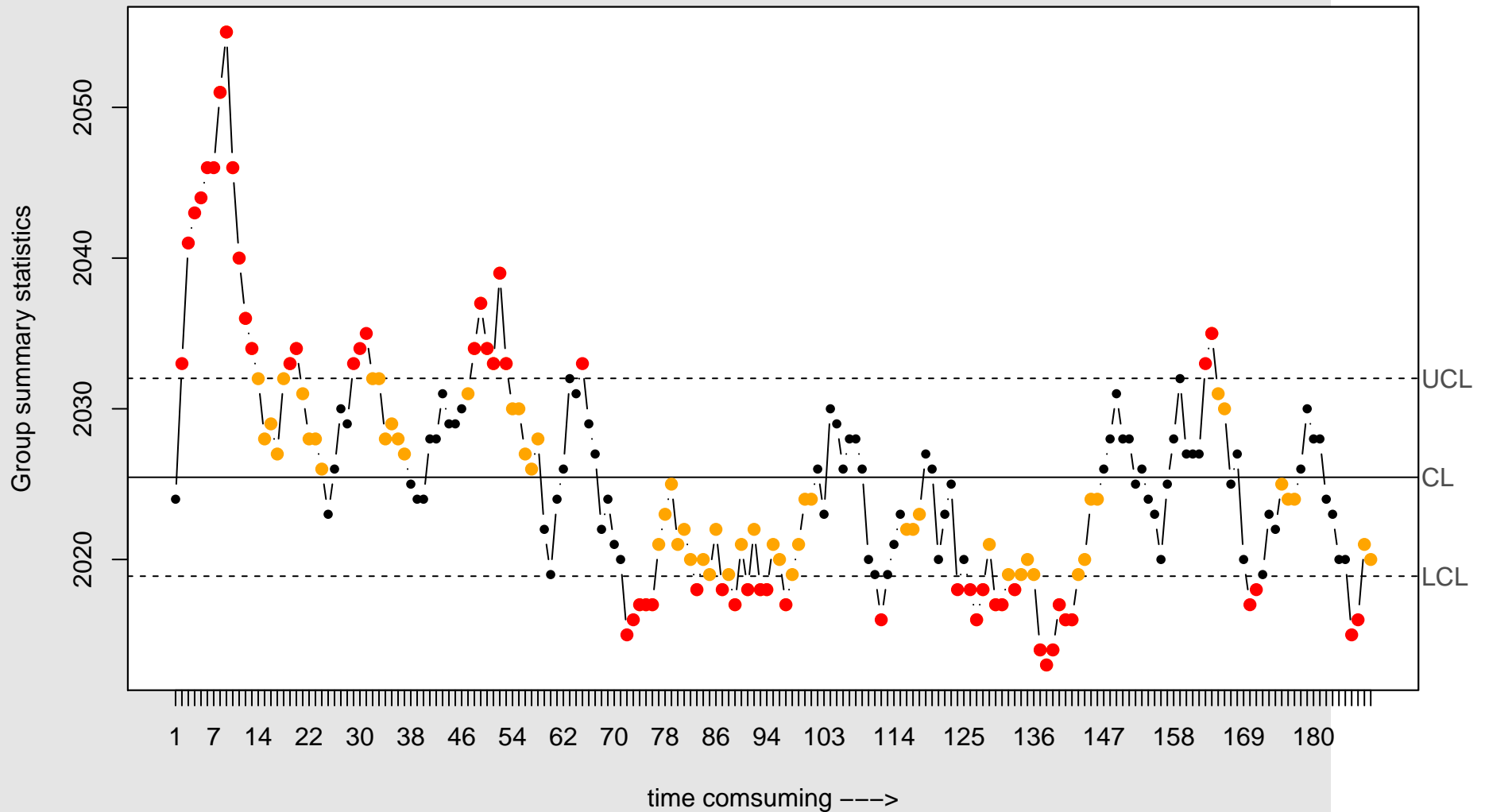


Number of groups = 189
Center = 2024.762
StdDev = 2.103139

LCL = 2018.452
UCL = 2031.071

Number beyond limits = 67
Number violating runs = 103

55th column point of this product

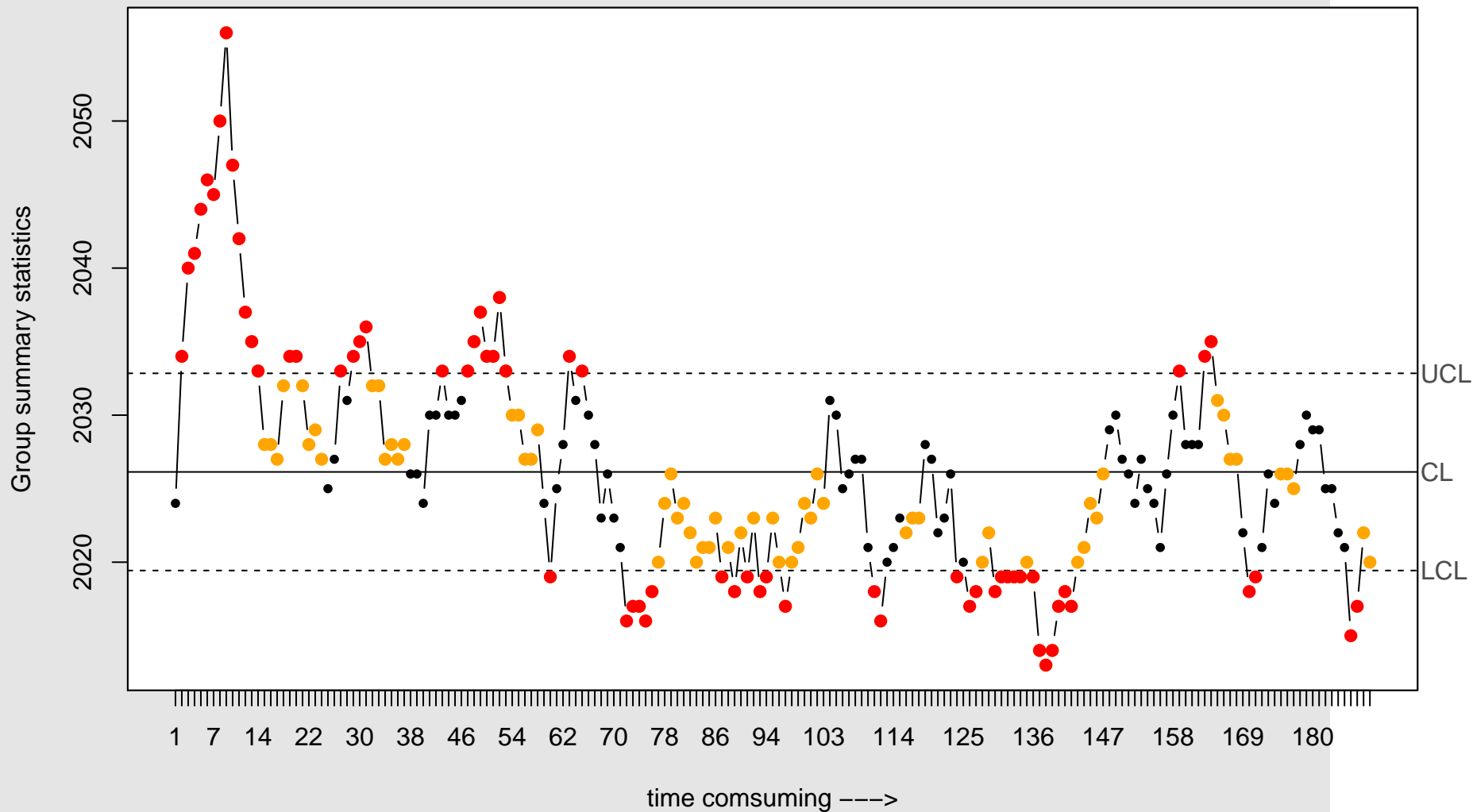


Number of groups = 189
Center = 2025.455
StdDev = 2.188019

LCL = 2018.891
UCL = 2032.019

Number beyond limits = 56
Number violating runs = 94

56th column point of this product

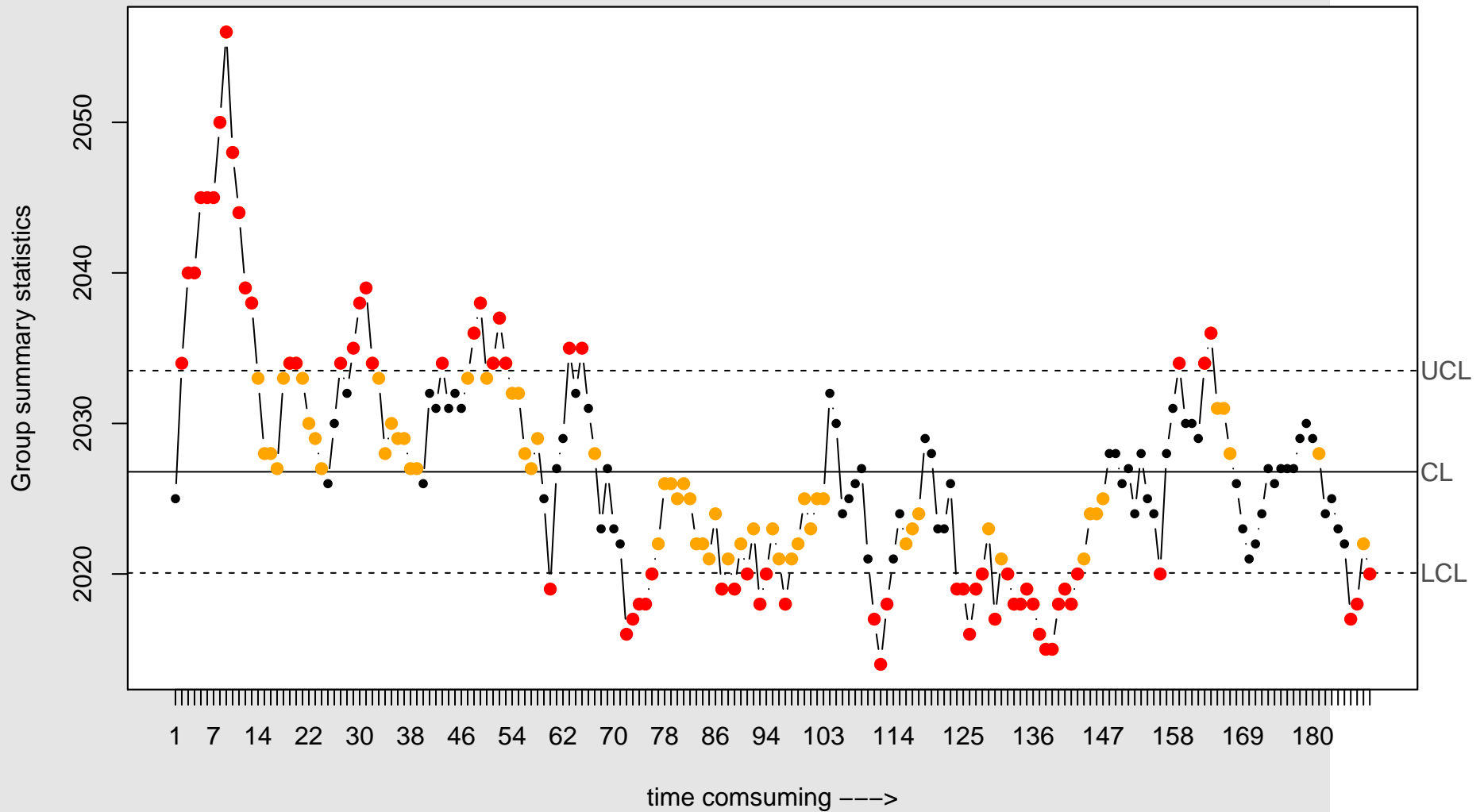


Number of groups = 189
Center = 2026.138
StdDev = 2.235174

LCL = 2019.432
UCL = 2032.843

Number beyond limits = 65
Number violating runs = 99

57th column point of this product

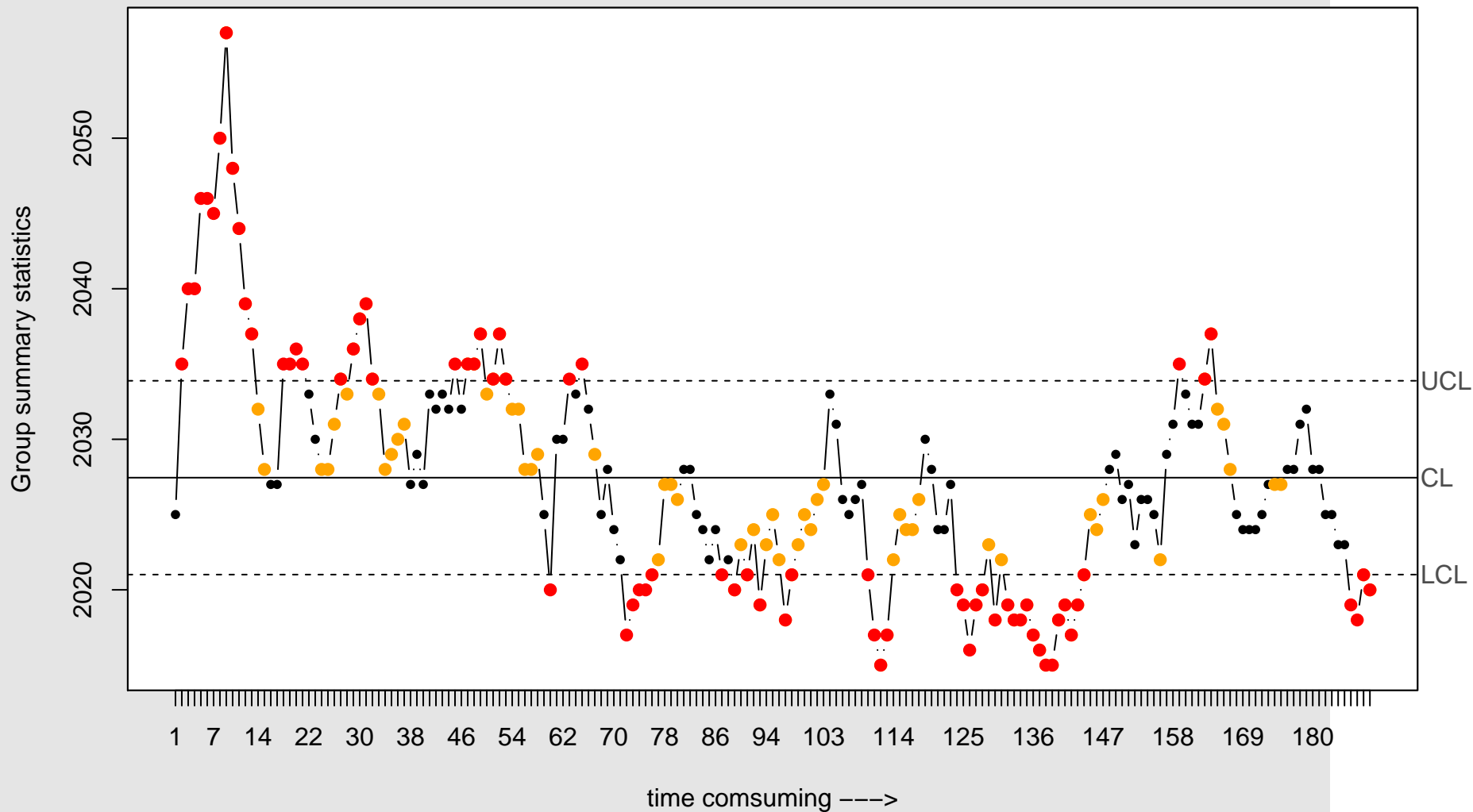


Number of groups = 189
Center = 2026.788
StdDev = 2.23989

LCL = 2020.069
UCL = 2033.508

Number beyond limits = 67
Number violating runs = 98

58th column point of this product

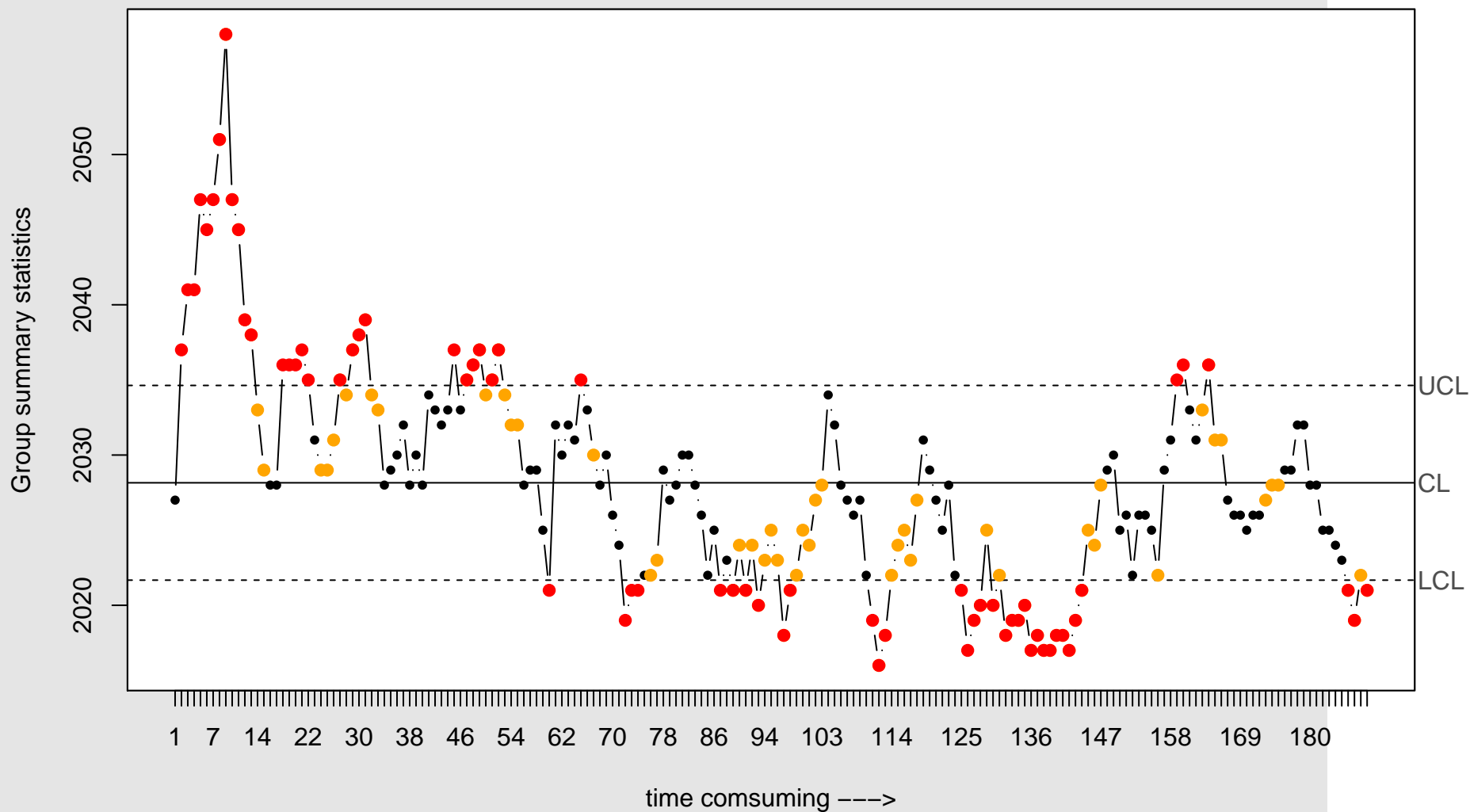


Number of groups = 189
Center = 2027.45
StdDev = 2.145579

LCL = 2021.013
UCL = 2033.886

Number beyond limits = 72
Number violating runs = 93

59th column point of this product

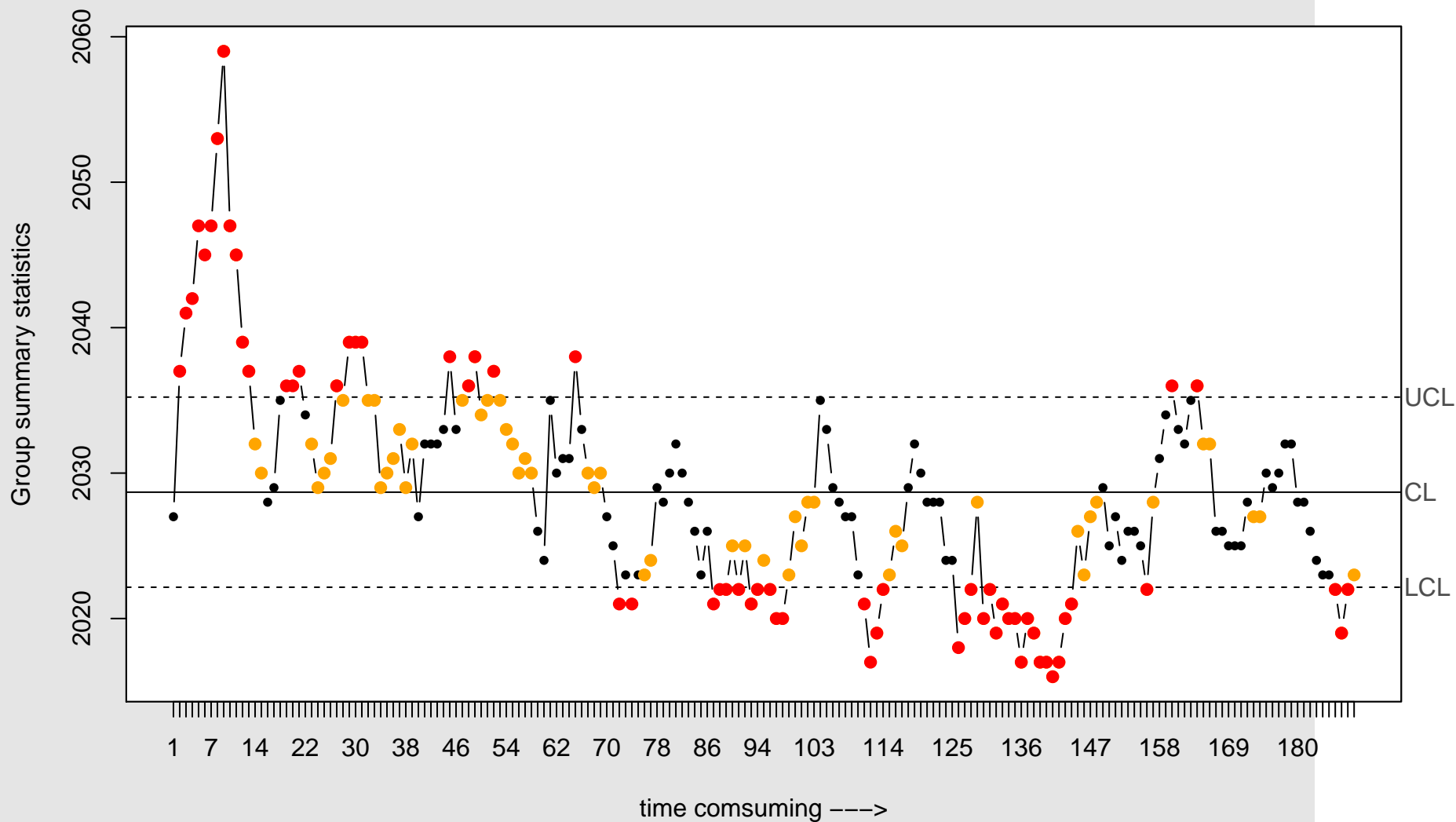


Number of groups = 189
Center = 2028.153
StdDev = 2.159725

LCL = 2021.674
UCL = 2034.633

Number beyond limits = 65
Number violating runs = 85

60th column point of this product

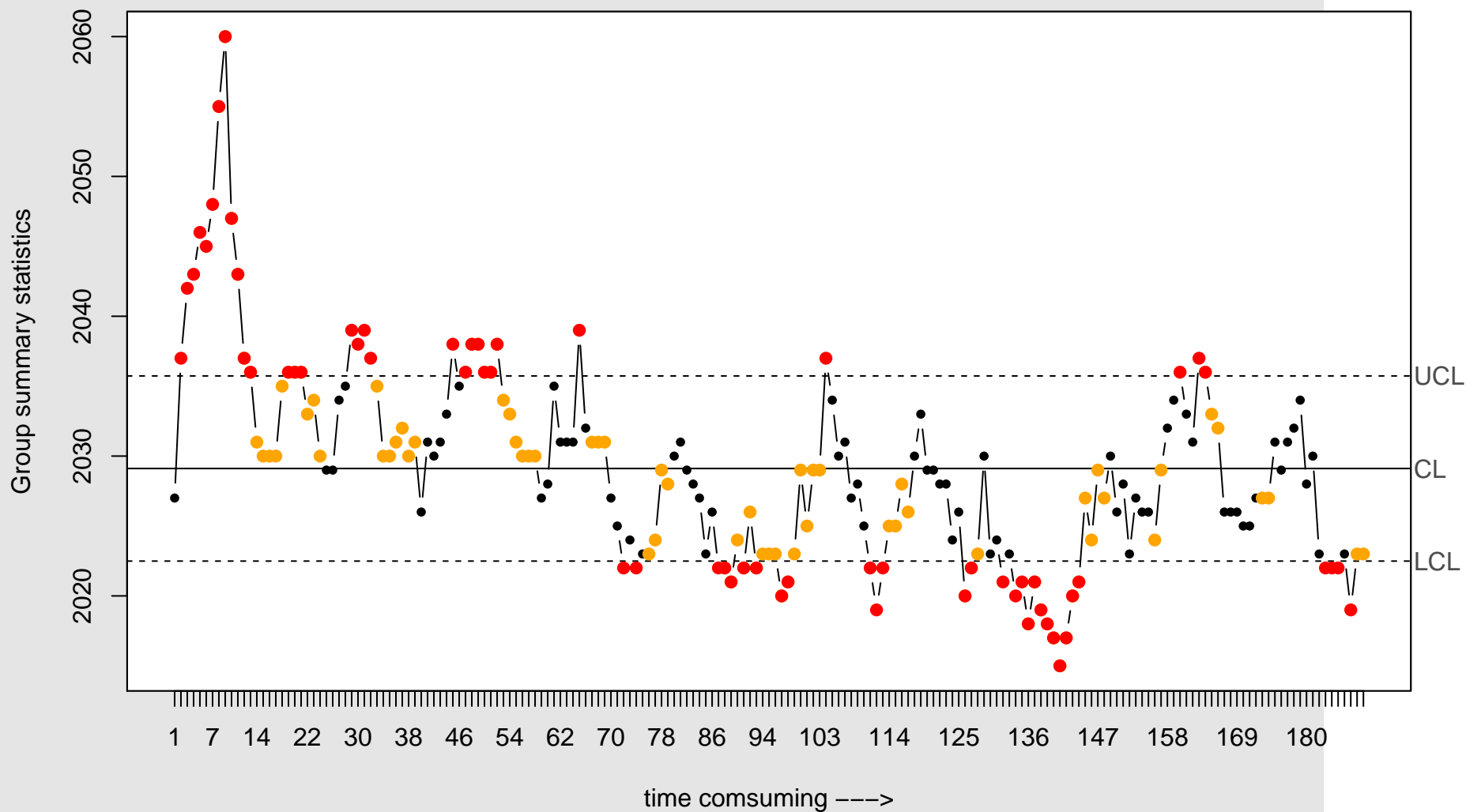


Number of groups = 189
 Center = 2028.688
 StdDev = 2.178588

LCL = 2022.152
 UCL = 2035.224

Number beyond limits = 63
 Number violating runs = 95

61th column point of this product

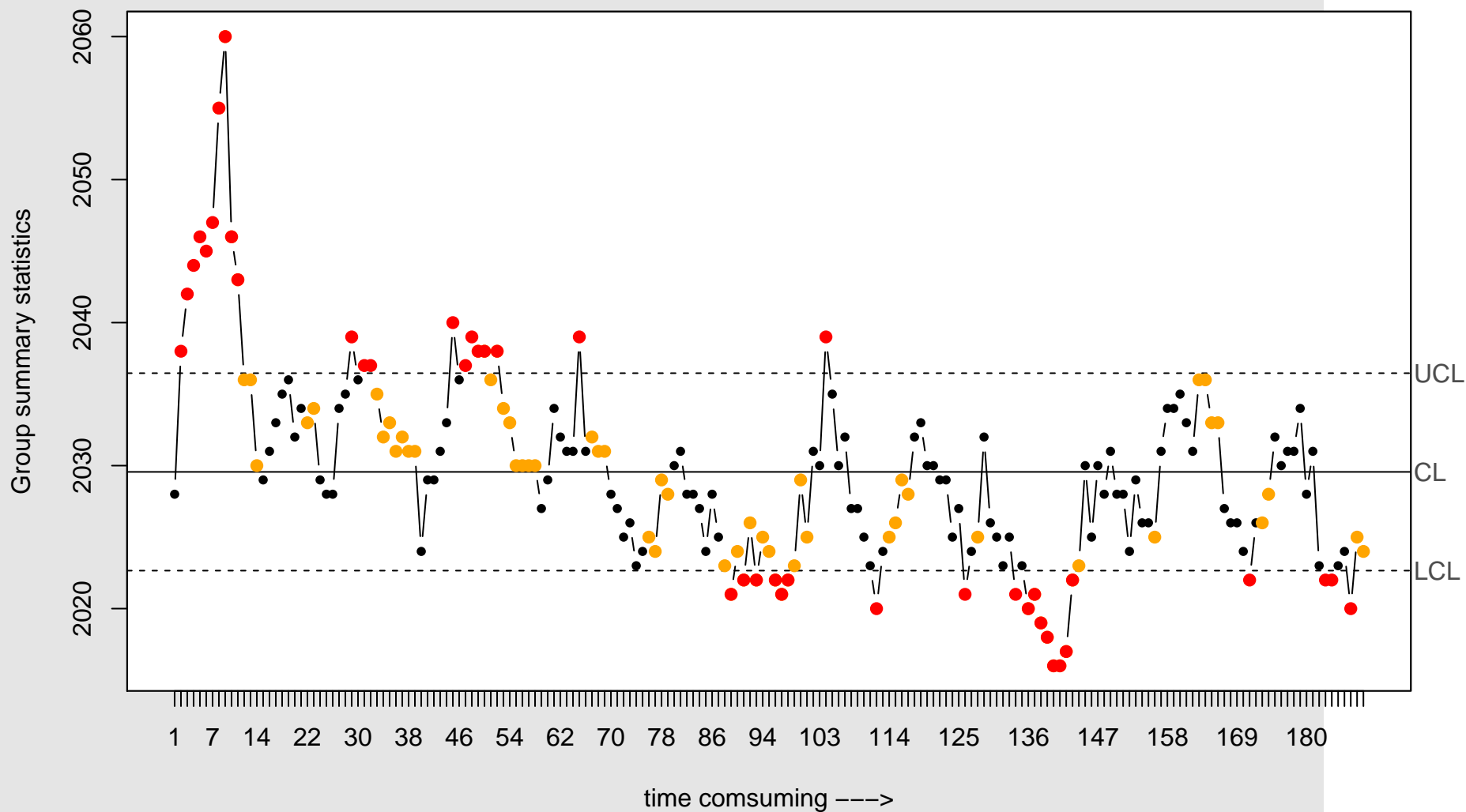


Number of groups = 189
Center = 2029.111
StdDev = 2.206881

LCL = 2022.49
UCL = 2035.732

Number beyond limits = 61
Number violating runs = 88

62th column point of this product



Number of groups = 189

Center = 2029.561

StdDev = 2.301192

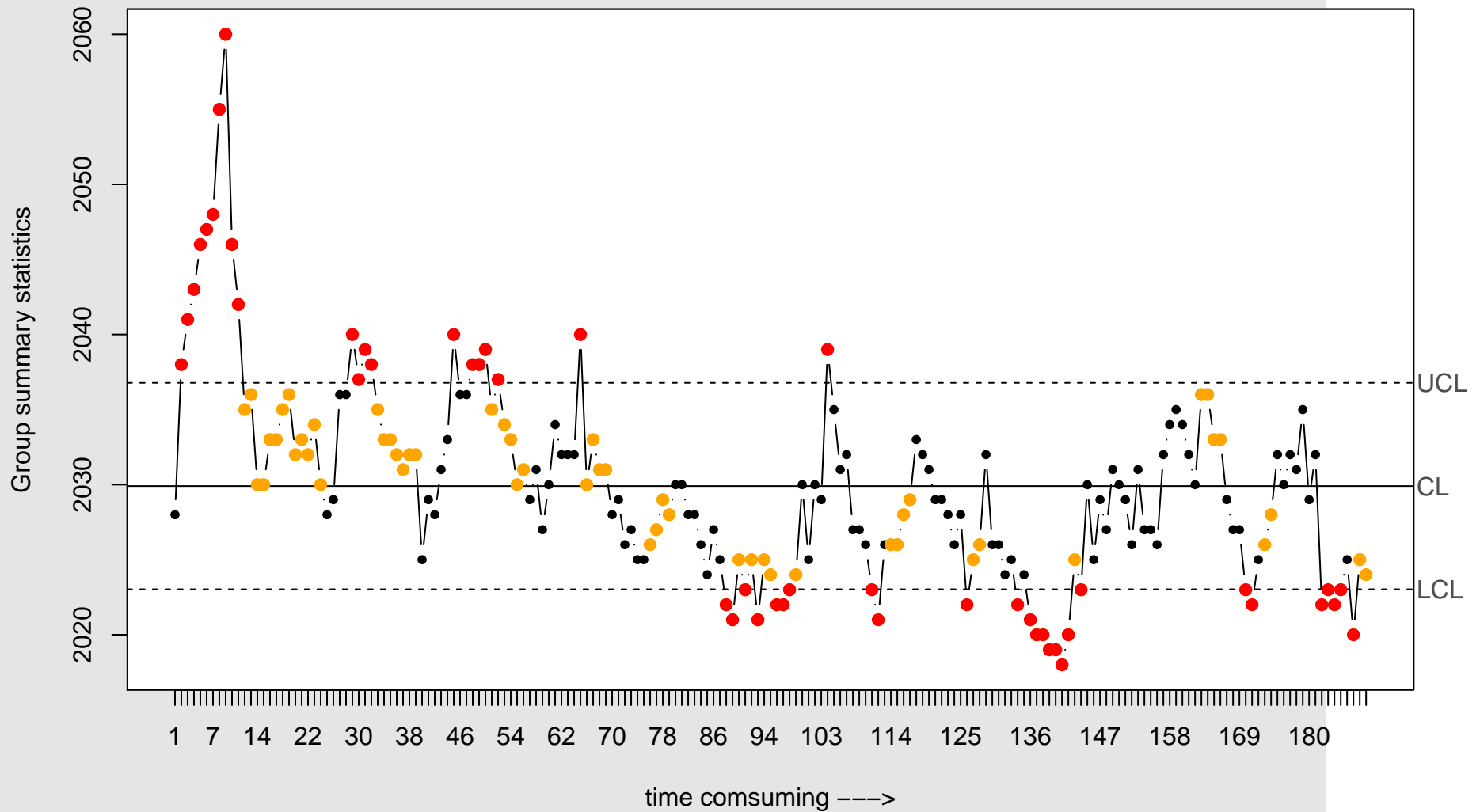
LCL = 2022.657

UCL = 2036.464

Number beyond limits = 42

Number violating runs = 70

63th column point of this product

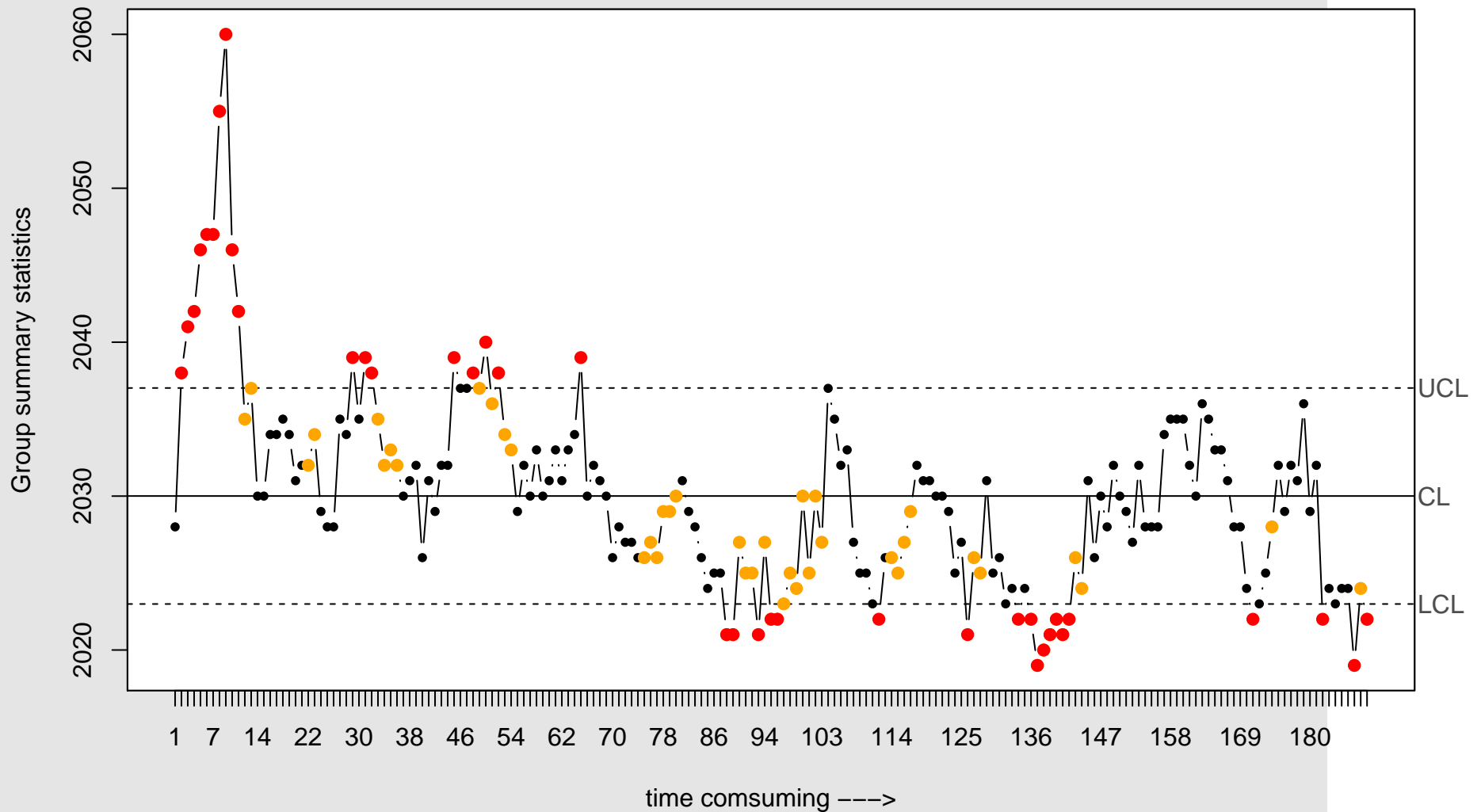


Number of groups = 189
Center = 2029.905
StdDev = 2.291761

LCL = 2023.029
UCL = 2036.78

Number beyond limits = 47
Number violating runs = 75

64th column point of this product

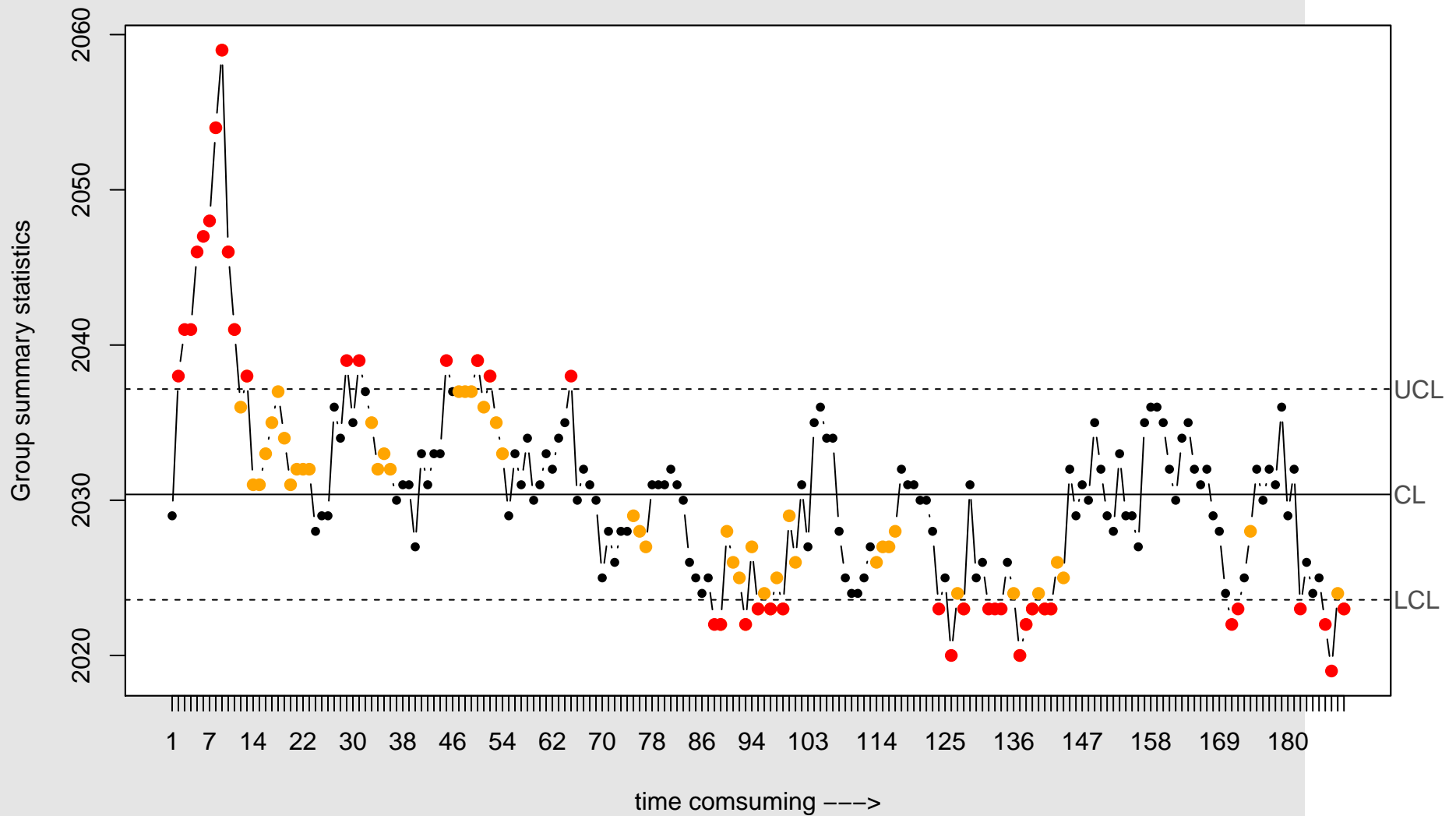


Number of groups = 189
 Center = 2030.005
 StdDev = 2.338917

LCL = 2022.989
 UCL = 2037.022

Number beyond limits = 37
 Number violating runs = 58

65th column point of this product

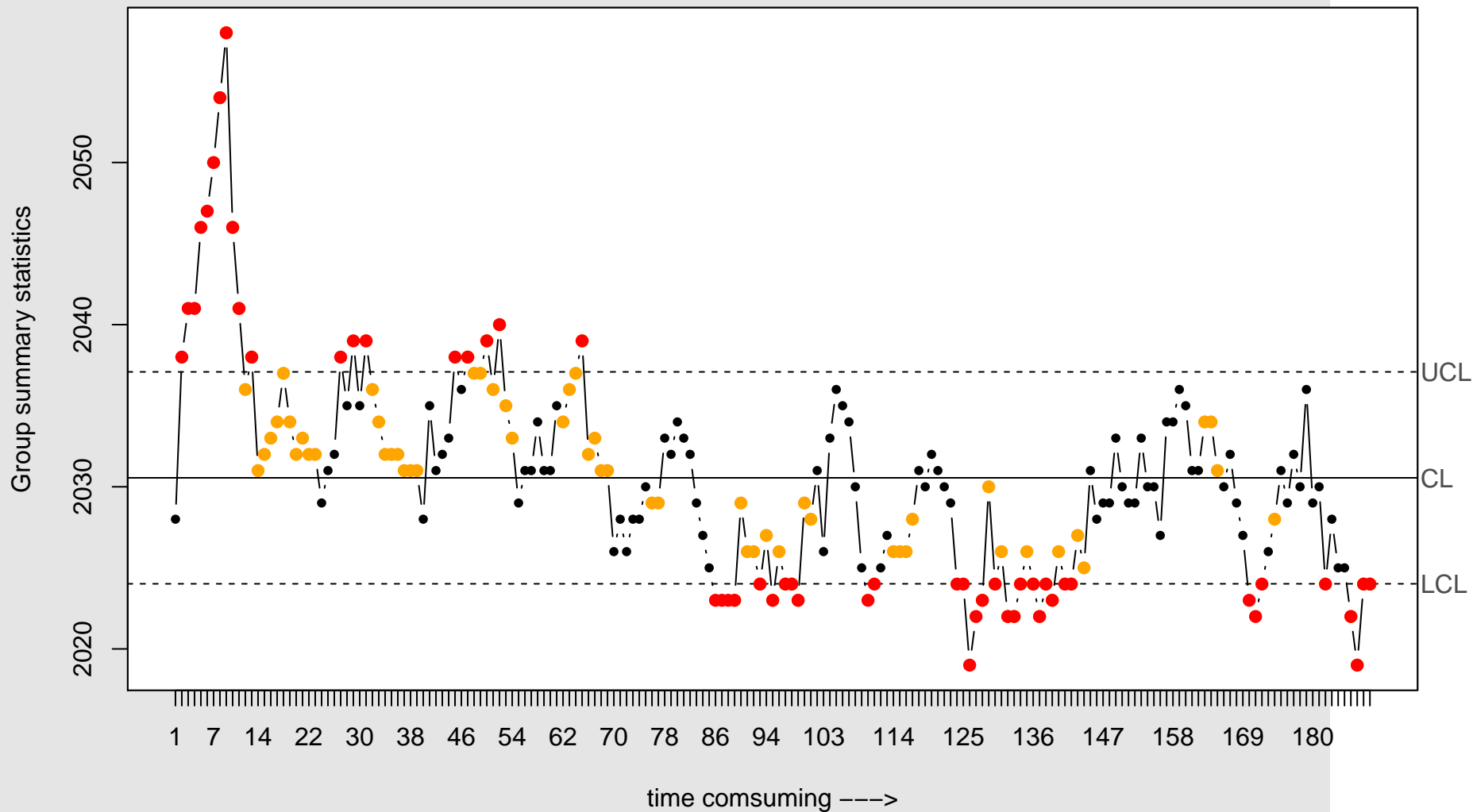


Number of groups = 189
Center = 2030.376
StdDev = 2.263468

LCL = 2023.585
UCL = 2037.166

Number beyond limits = 40
Number violating runs = 62

66th column point of this product

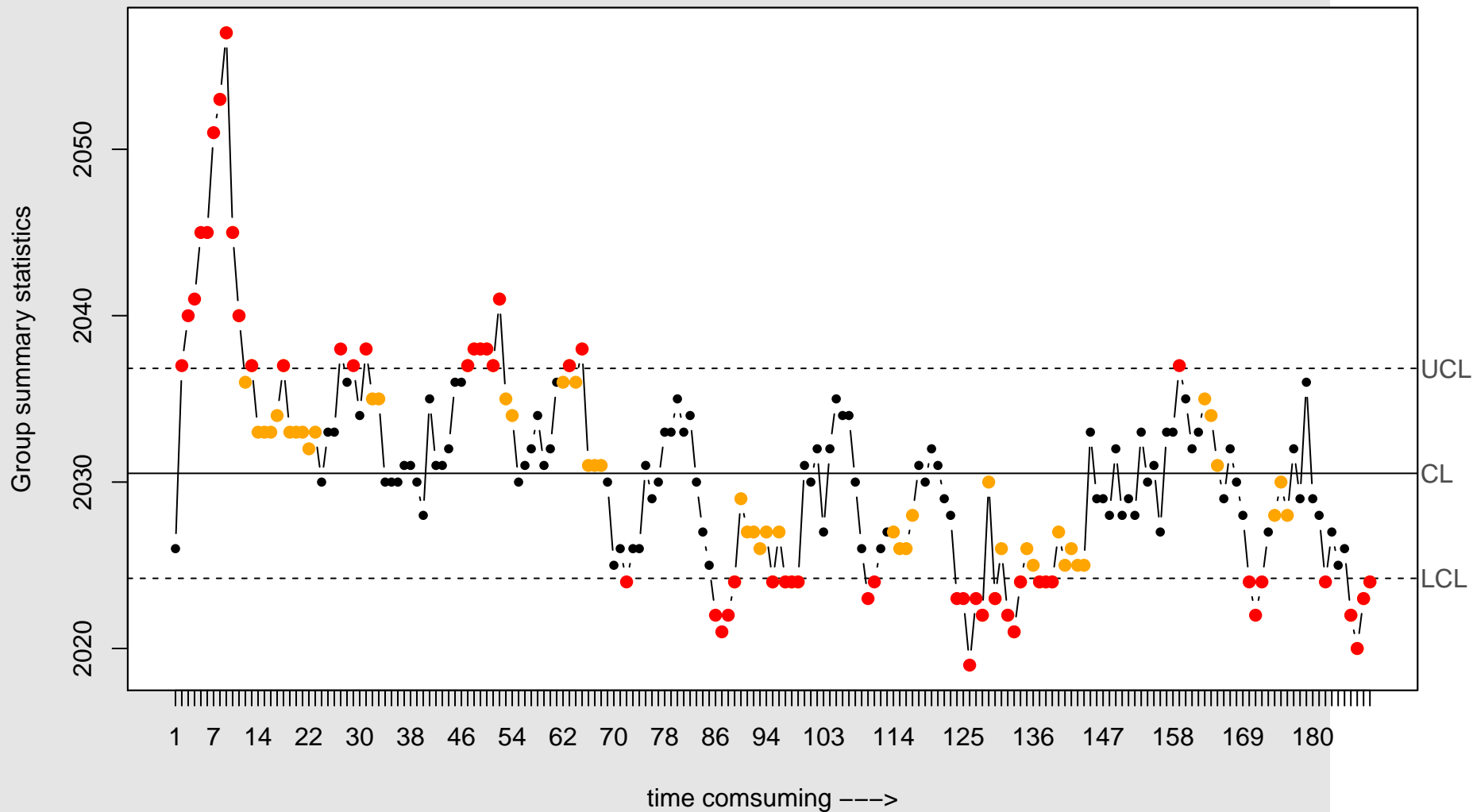


Number of groups = 189
 Center = 2030.55
 StdDev = 2.178588

LCL = 2024.015
 UCL = 2037.086

Number beyond limits = 53
 Number violating runs = 85

67th column point of this product



Number of groups = 189

Center = 2030.524

StdDev = 2.103139

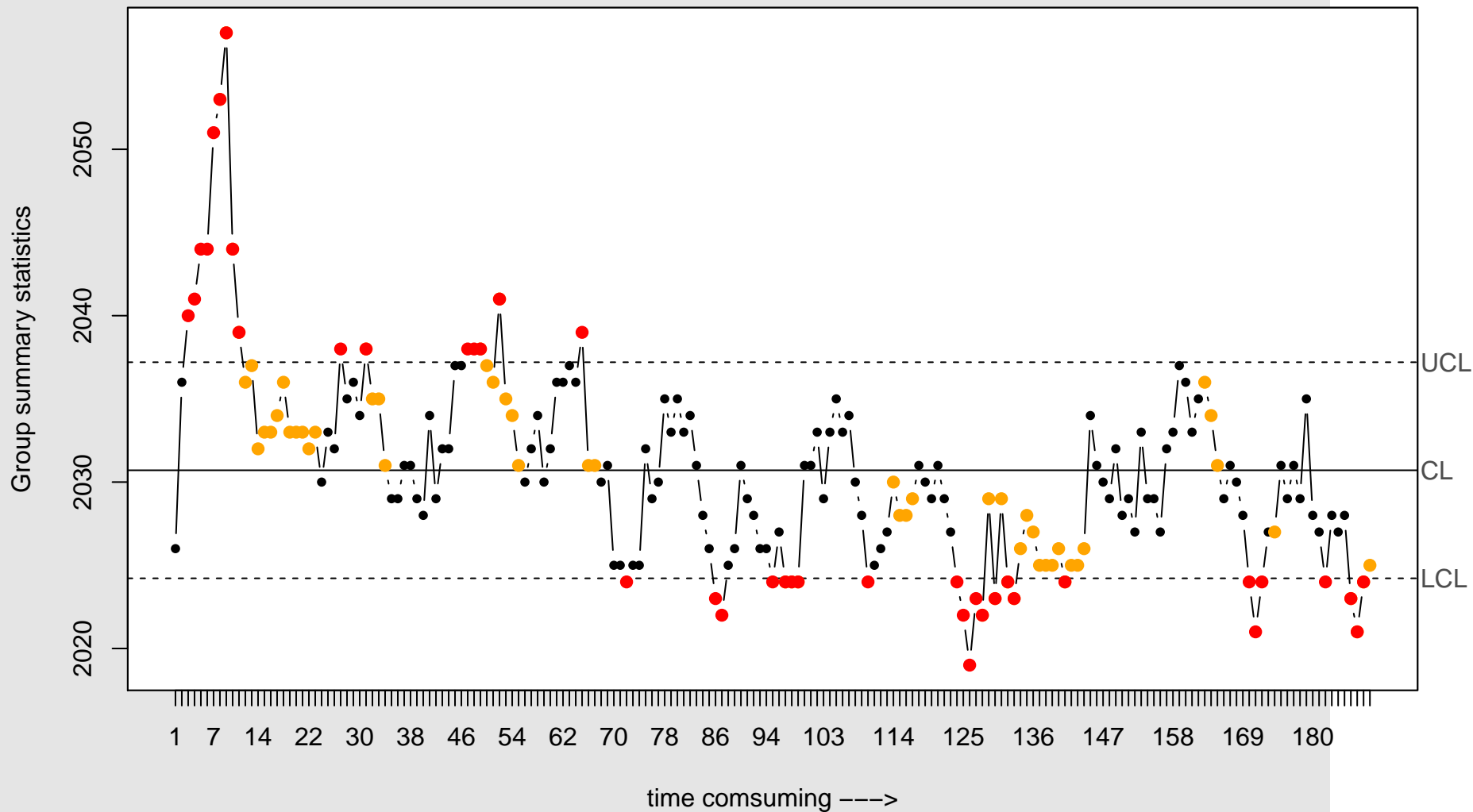
LCL = 2024.214

UCL = 2036.833

Number beyond limits = 55

Number violating runs = 76

68th column point of this product

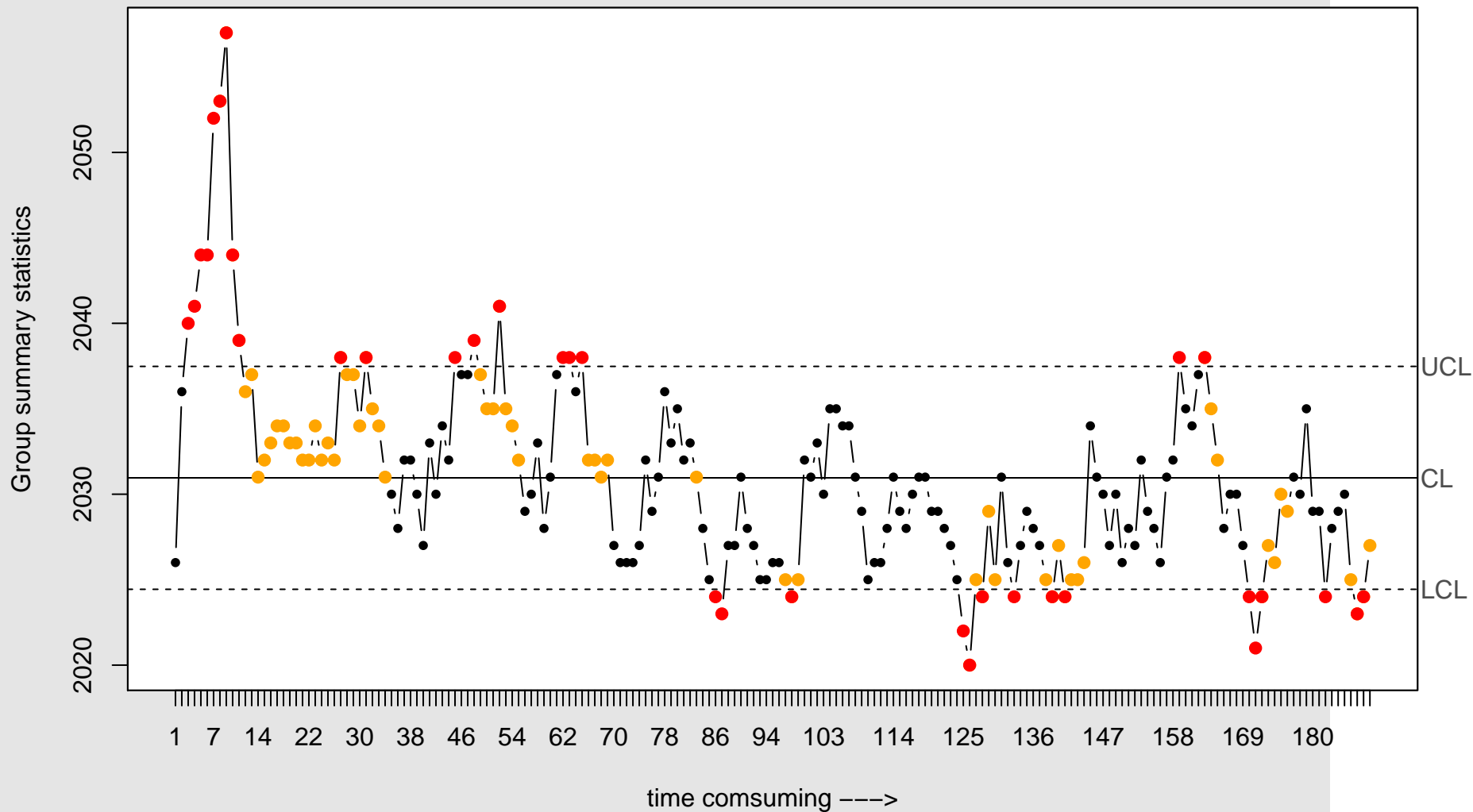


Number of groups = 189
Center = 2030.709
StdDev = 2.164441

LCL = 2024.216
UCL = 2037.202

Number beyond limits = 40
Number violating runs = 61

69th column point of this product



Number of groups = 189

Center = 2030.958

StdDev = 2.173872

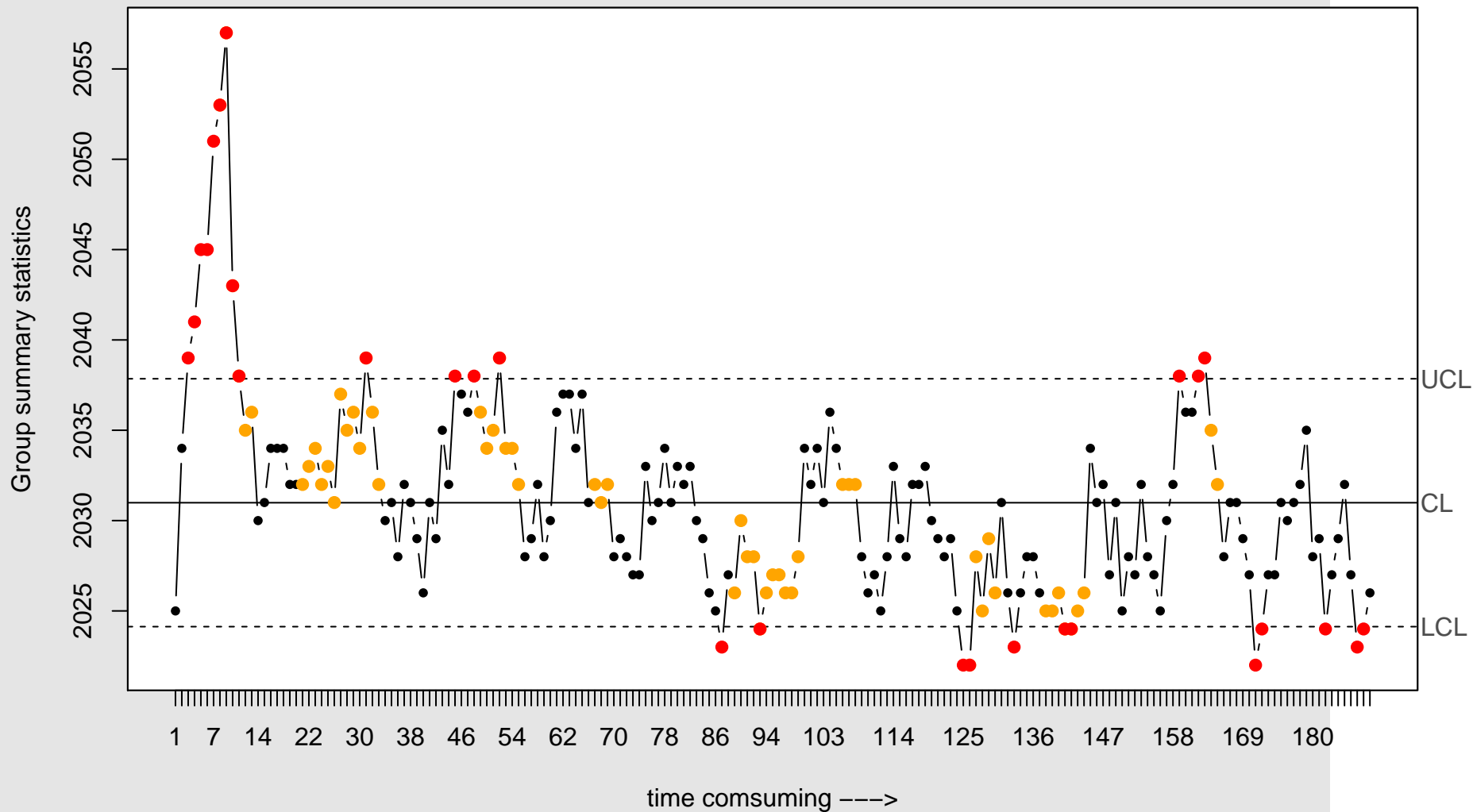
LCL = 2024.436

UCL = 2037.479

Number beyond limits = 34

Number violating runs = 66

70th column point of this product



Number of groups = 189

Center = 2030.989

StdDev = 2.287045

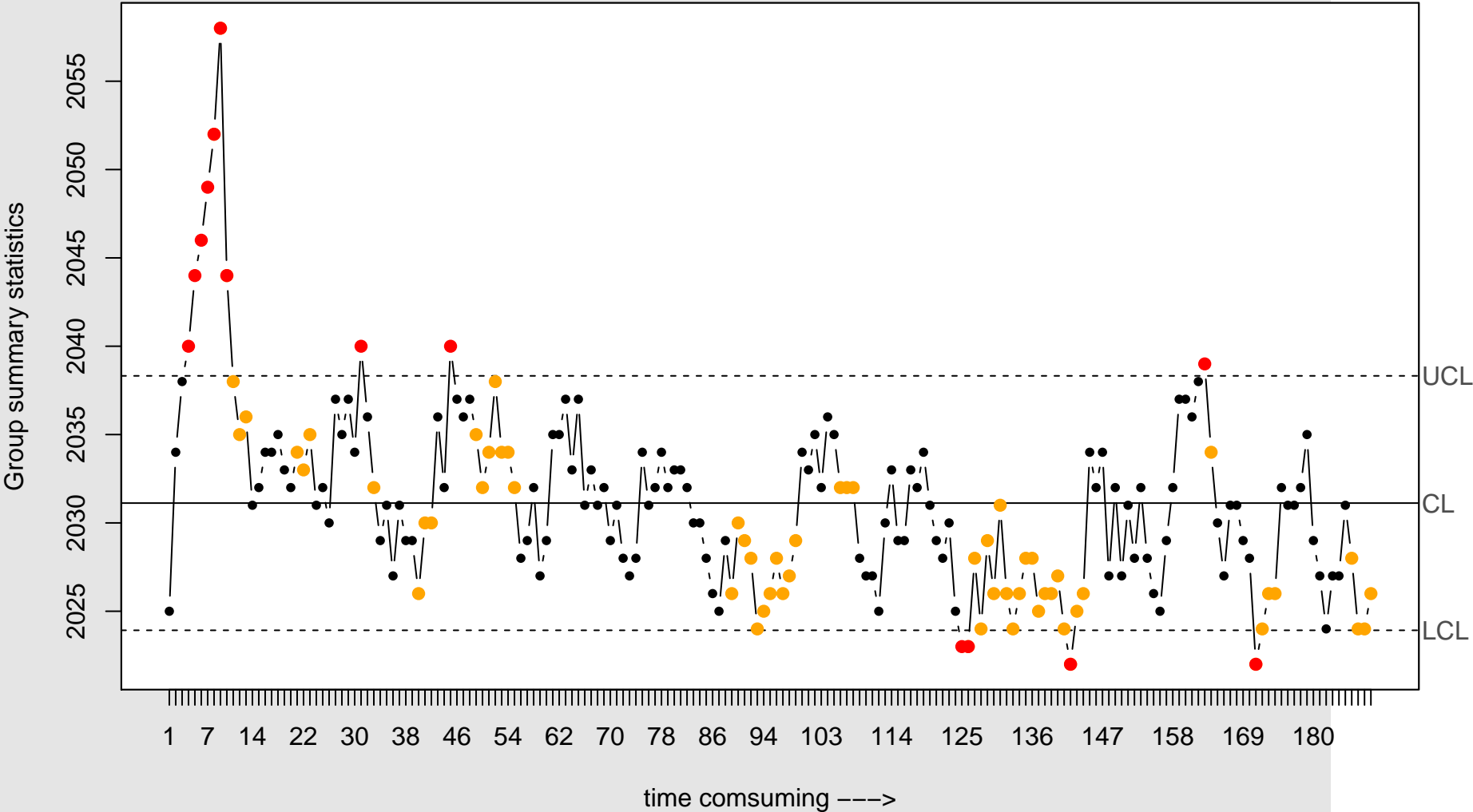
LCL = 2024.128

UCL = 2037.851

Number beyond limits = 28

Number violating runs = 57

71th column point of this product

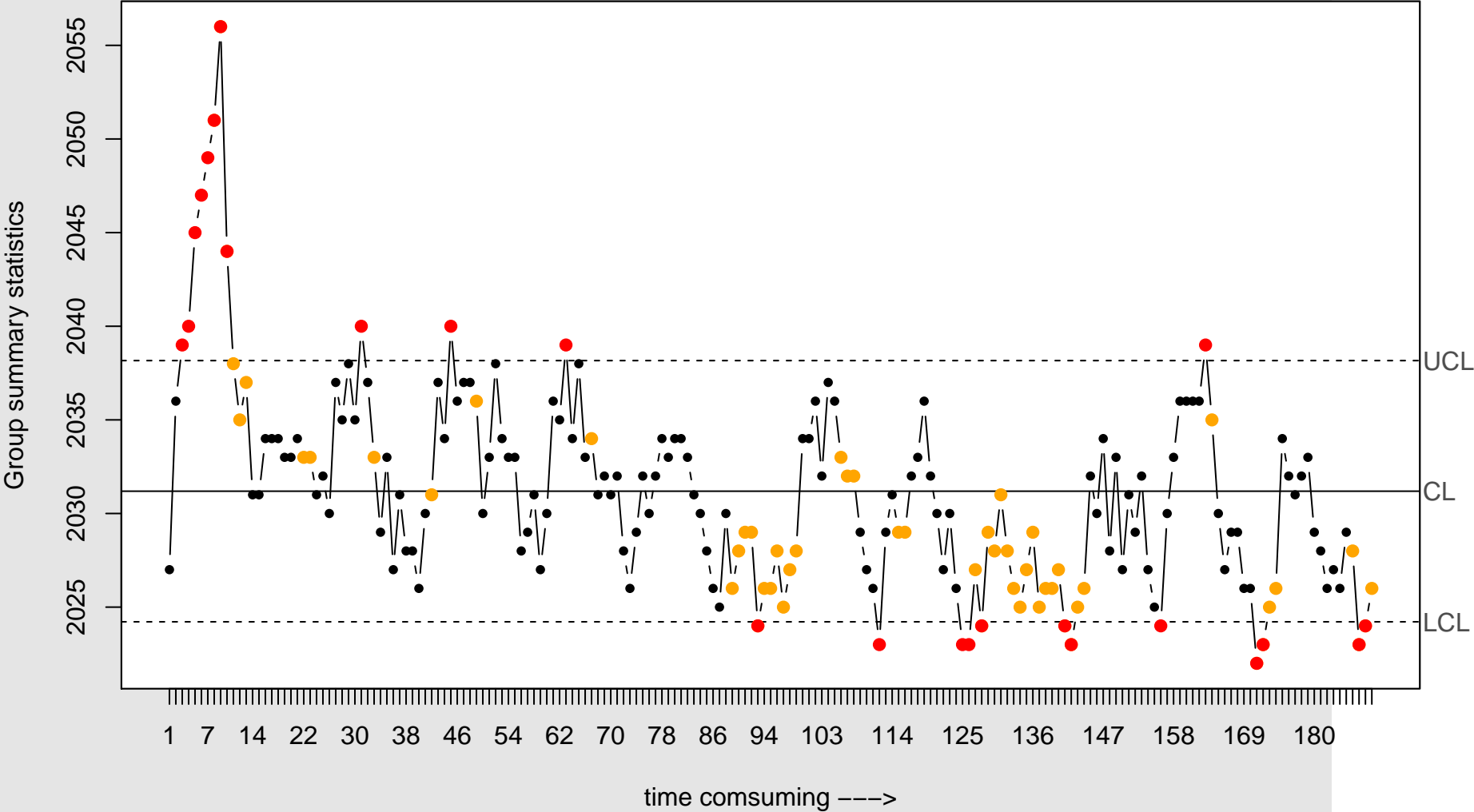


Number of groups = 189
Center = 2031.122
StdDev = 2.400219

LCL = 2023.921
UCL = 2038.322

Number beyond limits = 14
Number violating runs = 62

72th column point of this product

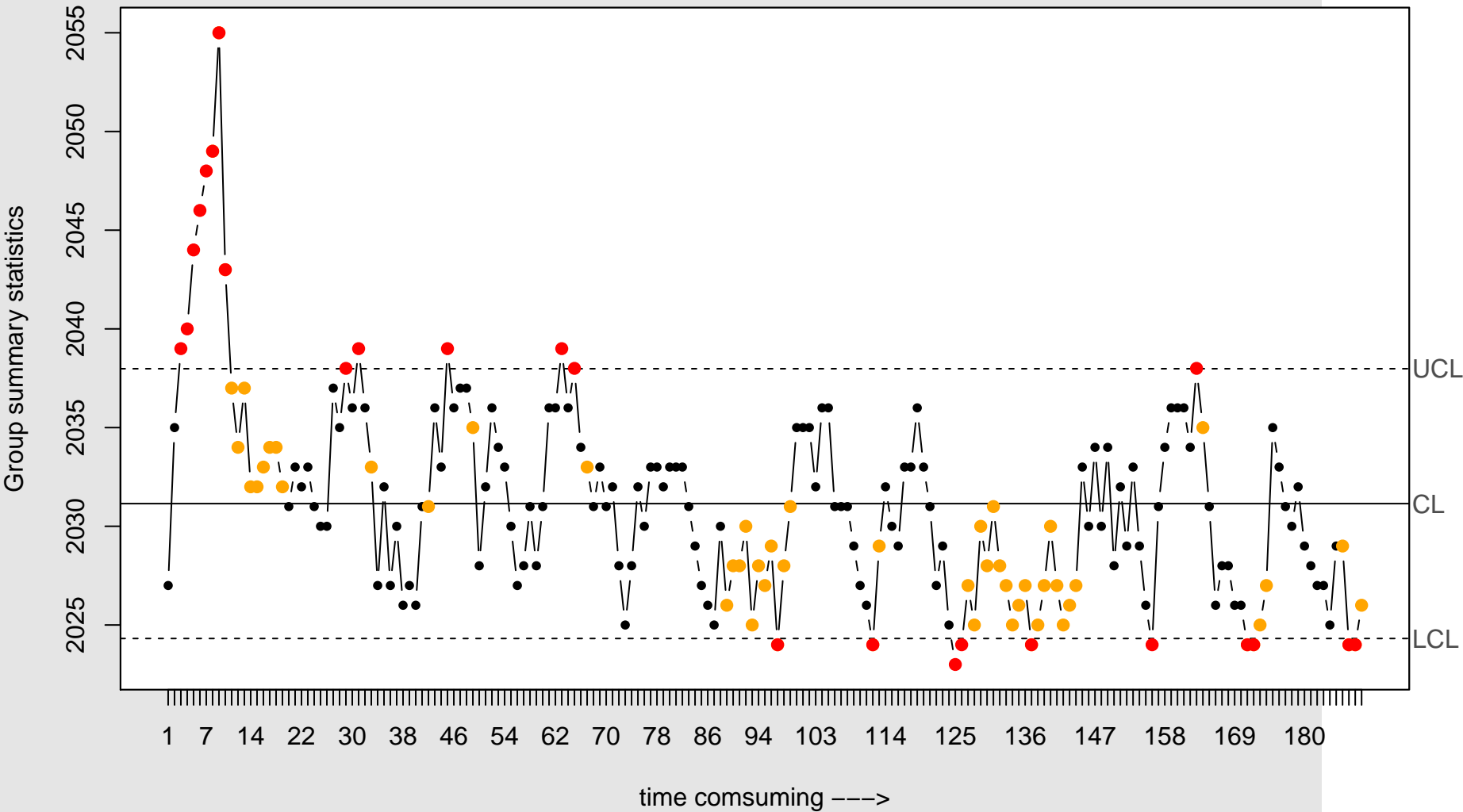


Number of groups = 189
Center = 2031.19
StdDev = 2.32477

LCL = 2024.216
UCL = 2038.165

Number beyond limits = 24
Number violating runs = 55

73th column point of this product

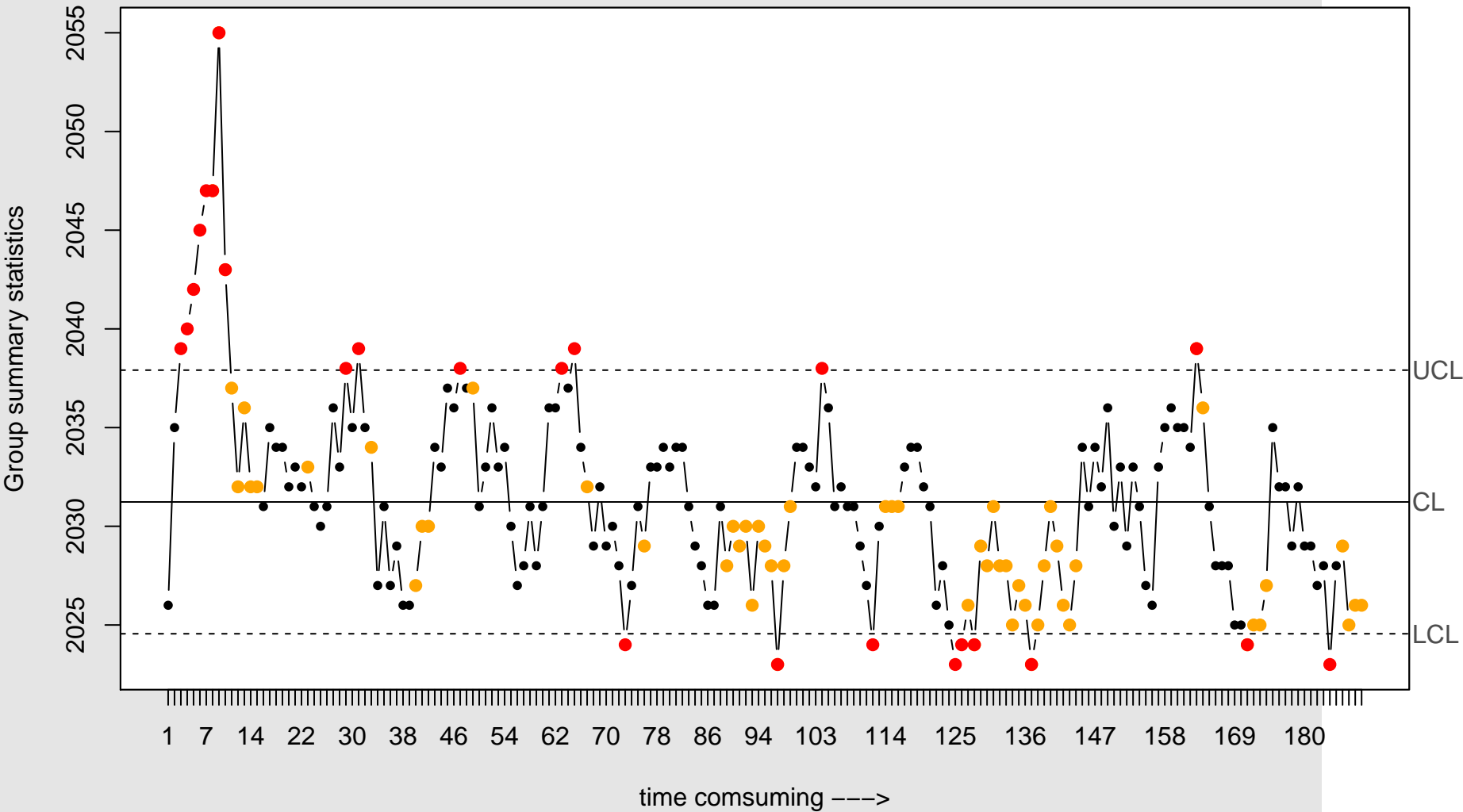


Number of groups = 189
Center = 2031.148
StdDev = 2.277614

LCL = 2024.315
UCL = 2037.981

Number beyond limits = 24
Number violating runs = 56

74th column point of this product

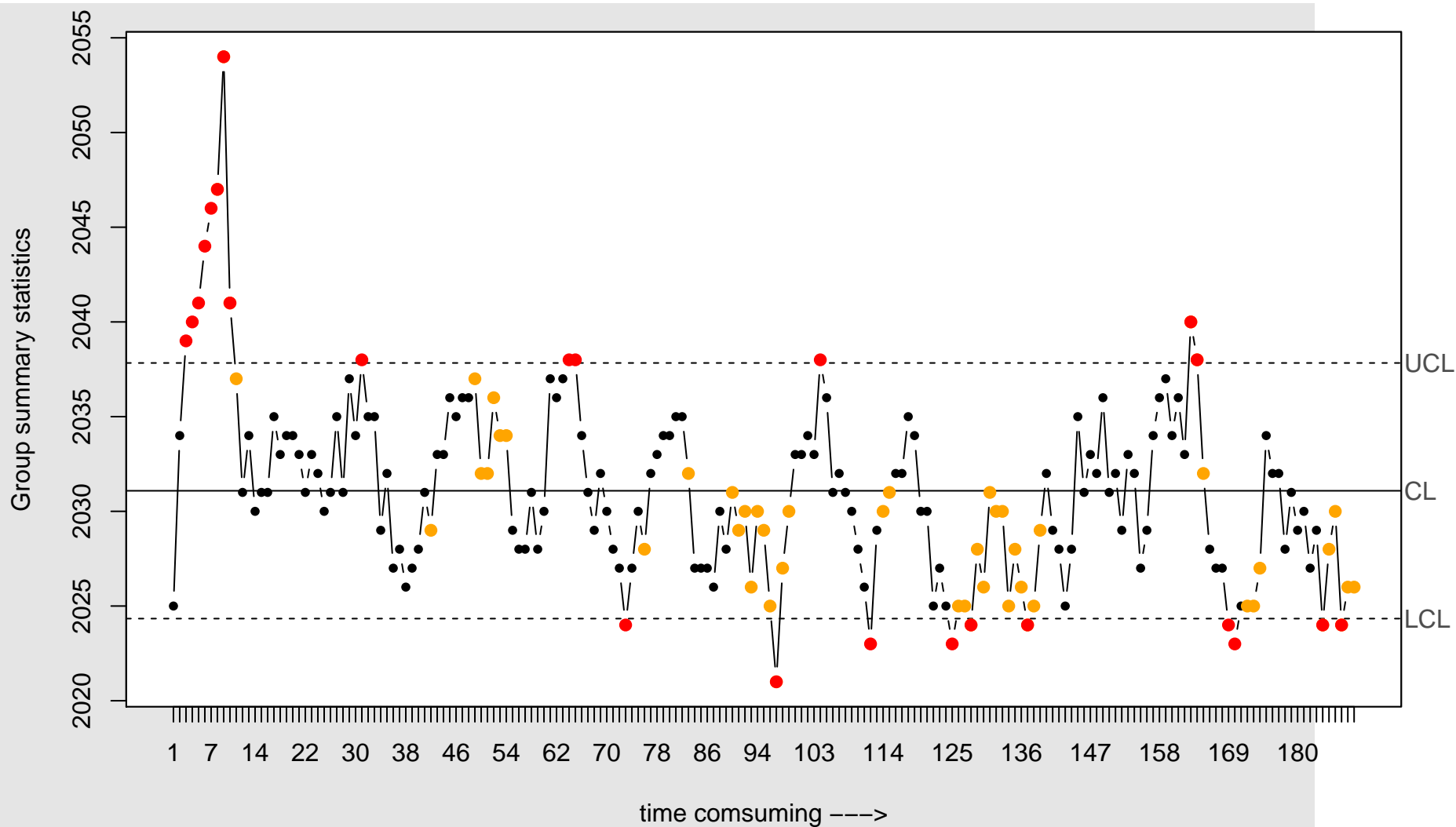


Number of groups = 189
Center = 2031.233
StdDev = 2.225743

LCL = 2024.556
UCL = 2037.91

Number beyond limits = 24
Number violating runs = 58

75th column point of this product

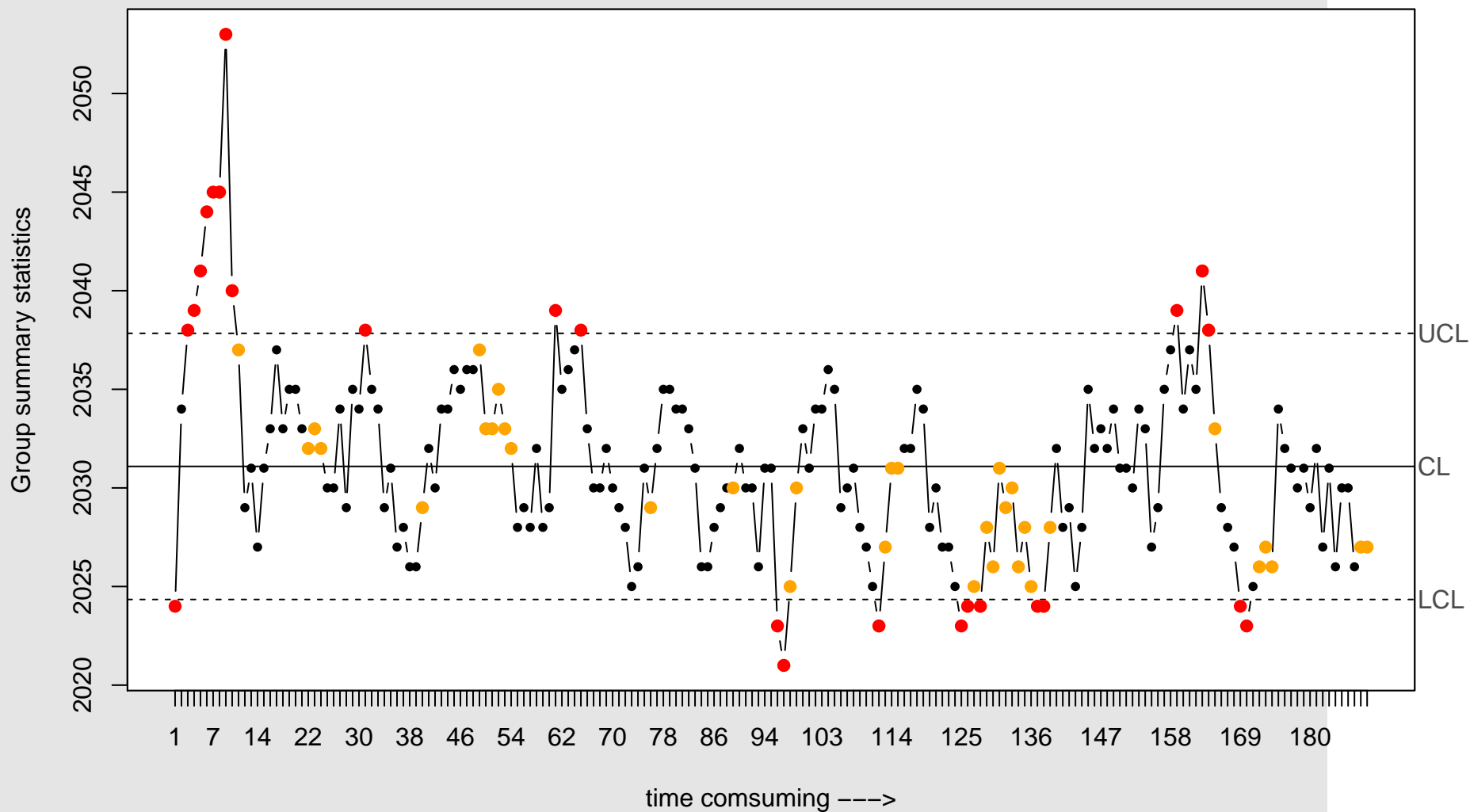


Number of groups = 189
 Center = 2031.085
 StdDev = 2.249321

LCL = 2024.337
 UCL = 2037.833

Number beyond limits = 24
 Number violating runs = 51

76th column point of this product



Number of groups = 189

Center = 2031.09

StdDev = 2.249321

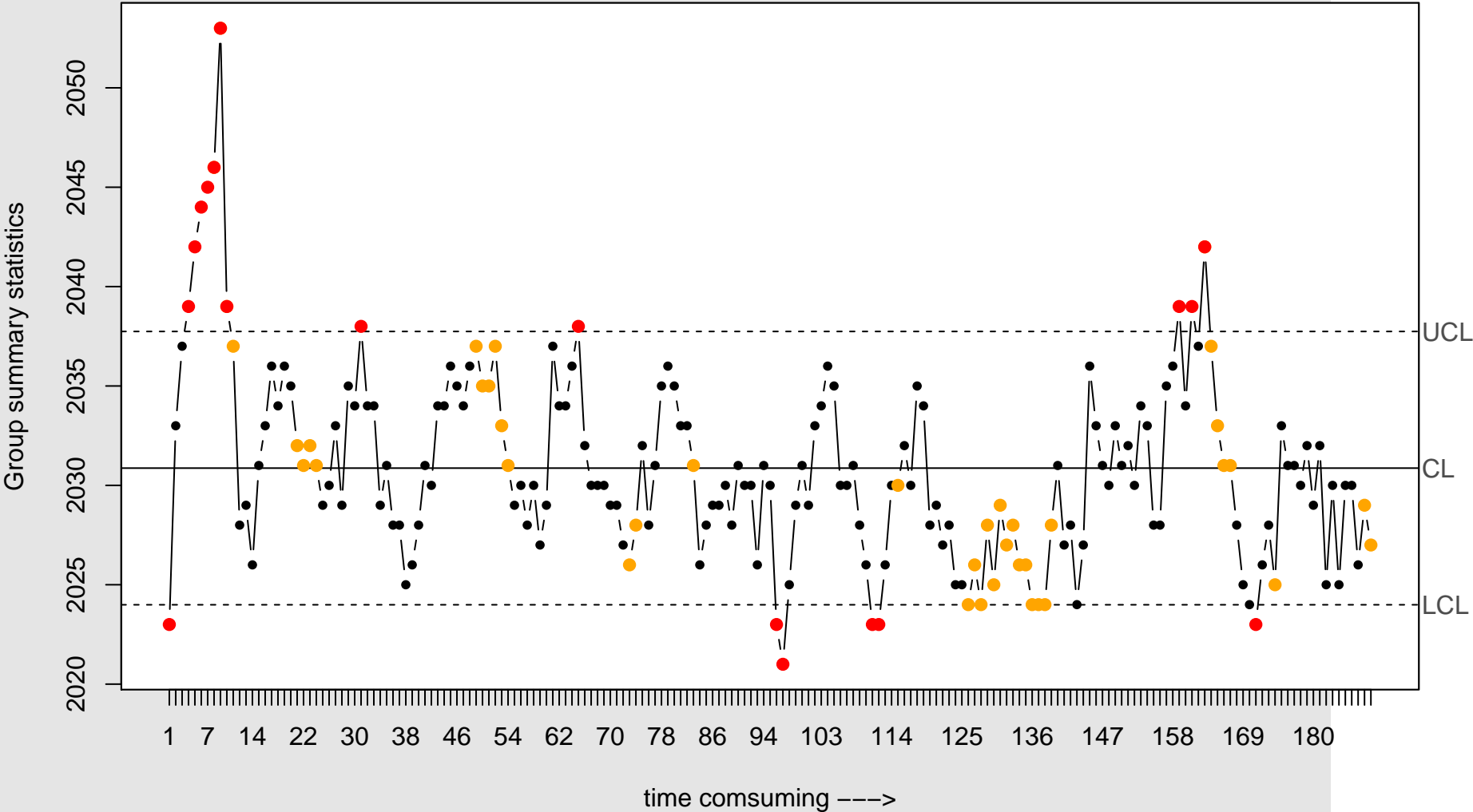
LCL = 2024.342

UCL = 2037.838

Number beyond limits = 25

Number violating runs = 45

77th column point of this product

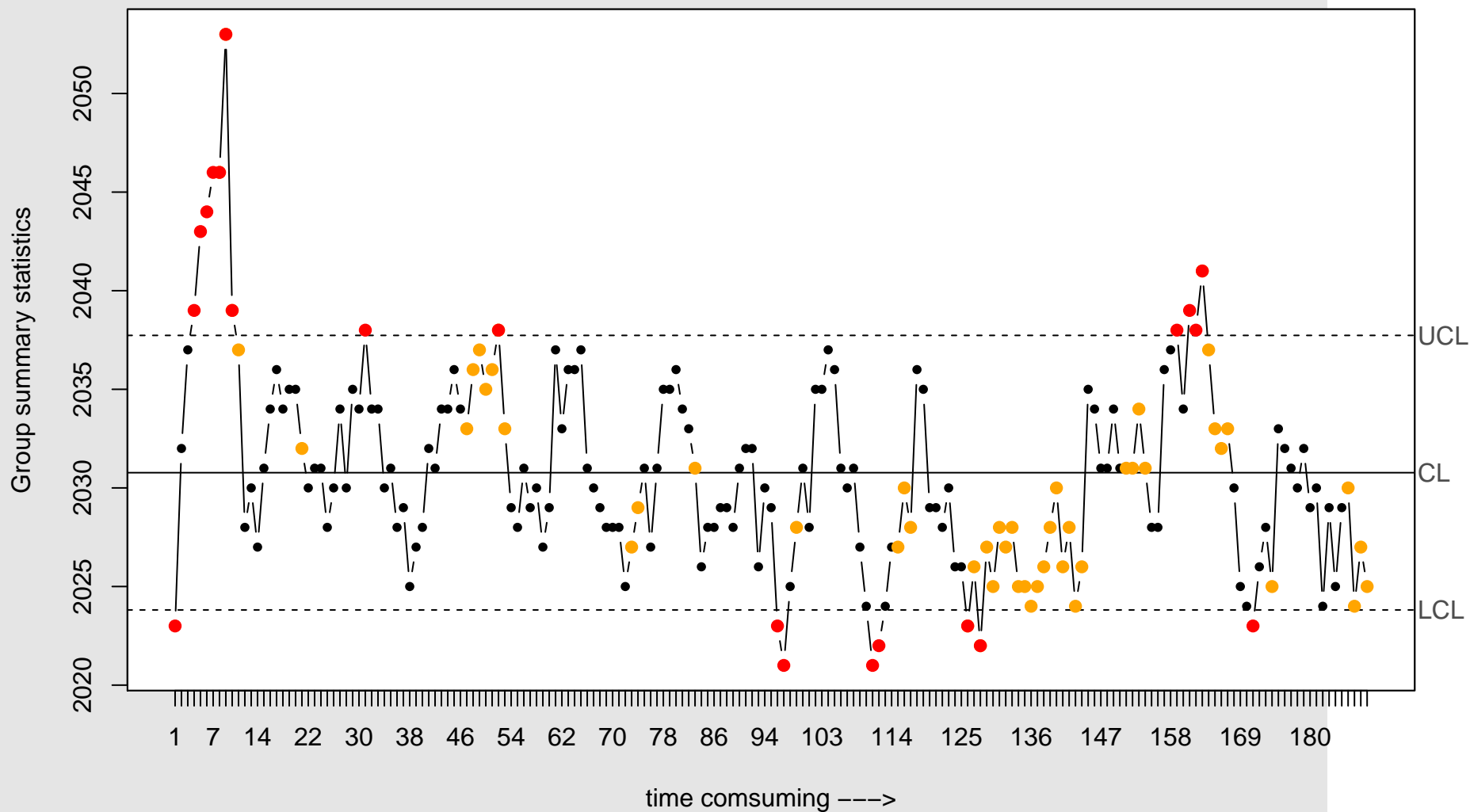


Number of groups = 189
Center = 2030.868
StdDev = 2.291761

LCL = 2023.992
UCL = 2037.743

Number beyond limits = 18
Number violating runs = 40

78th column point of this product

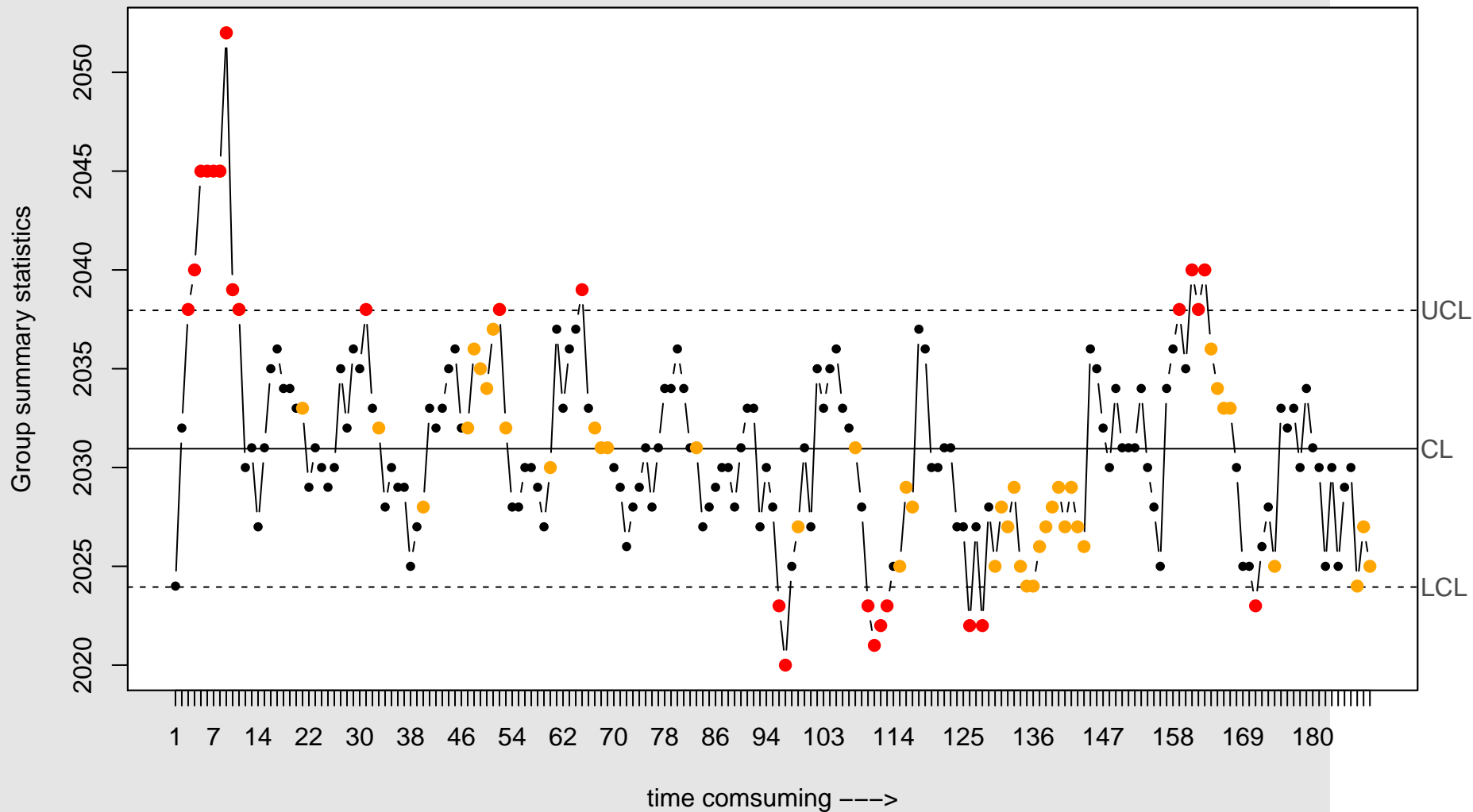


Number of groups = 189
Center = 2030.772
StdDev = 2.320054

LCL = 2023.812
UCL = 2037.733

Number beyond limits = 21
Number violating runs = 52

79th column point of this product

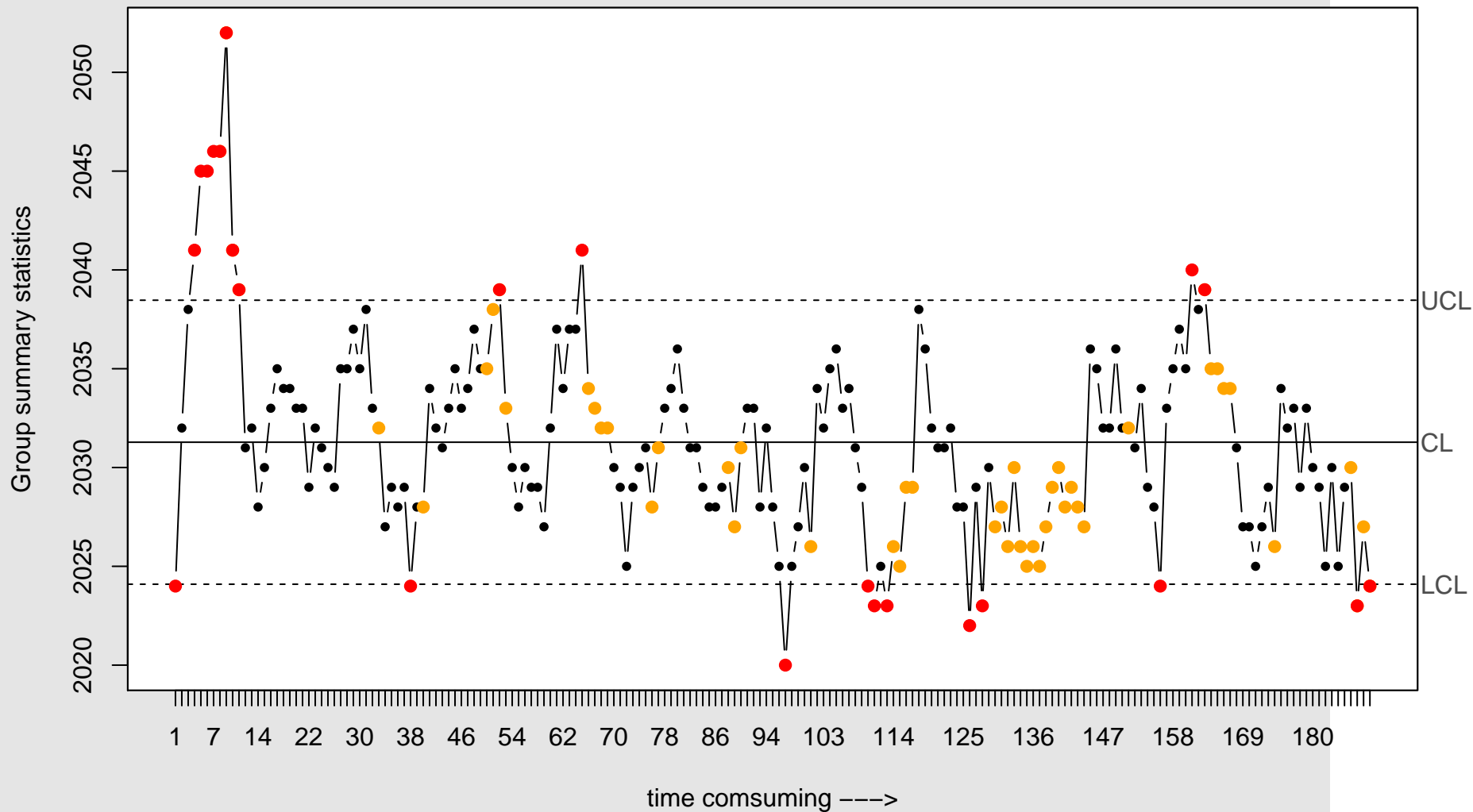


Number of groups = 189
Center = 2030.952
StdDev = 2.334201

LCL = 2023.95
UCL = 2037.955

Number beyond limits = 25
Number violating runs = 48

80th column point of this product



Number of groups = 189

Center = 2031.28

StdDev = 2.395503

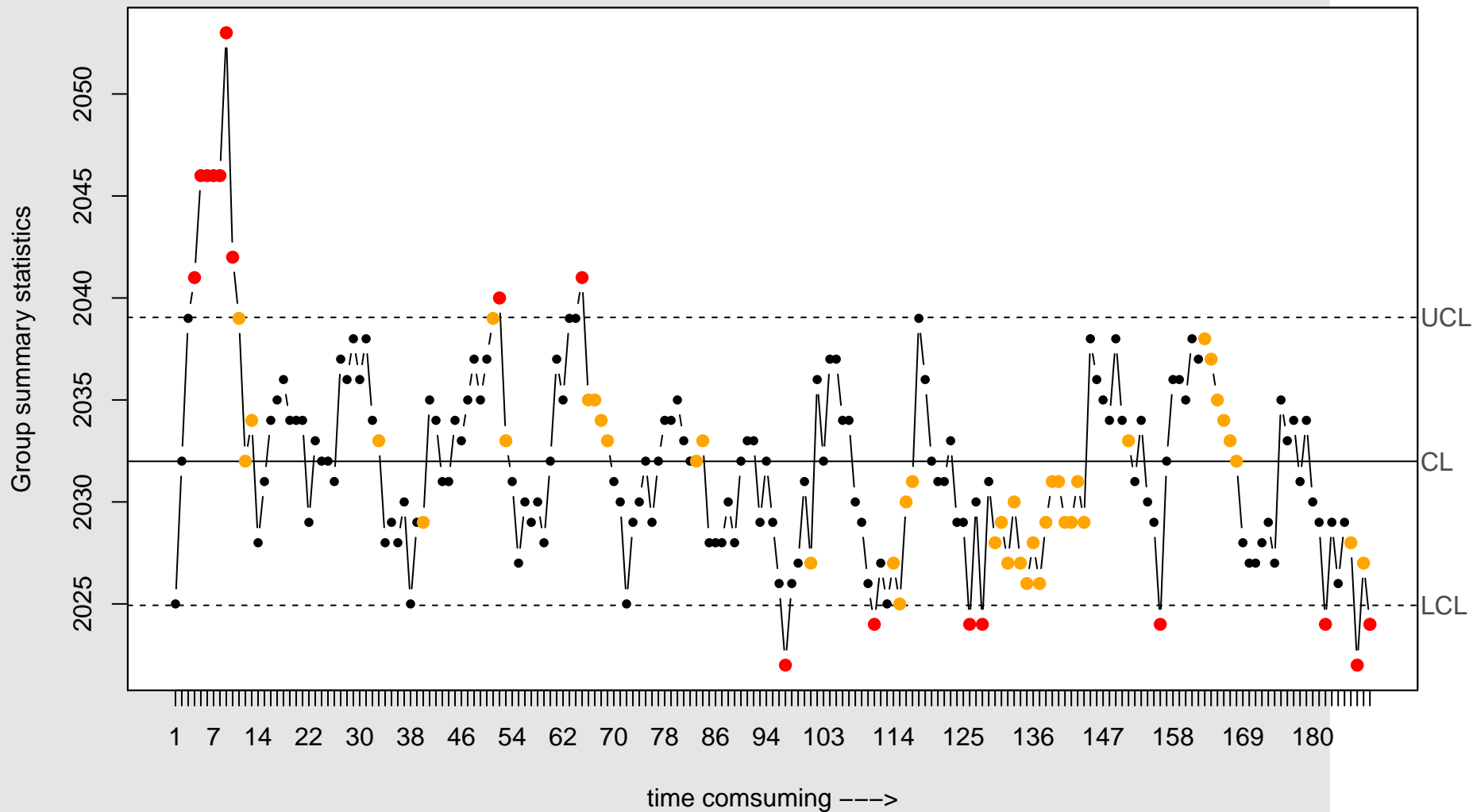
LCL = 2024.094

UCL = 2038.467

Number beyond limits = 23

Number violating runs = 50

81th column point of this product



Number of groups = 189

Center = 2031.989

StdDev = 2.353063

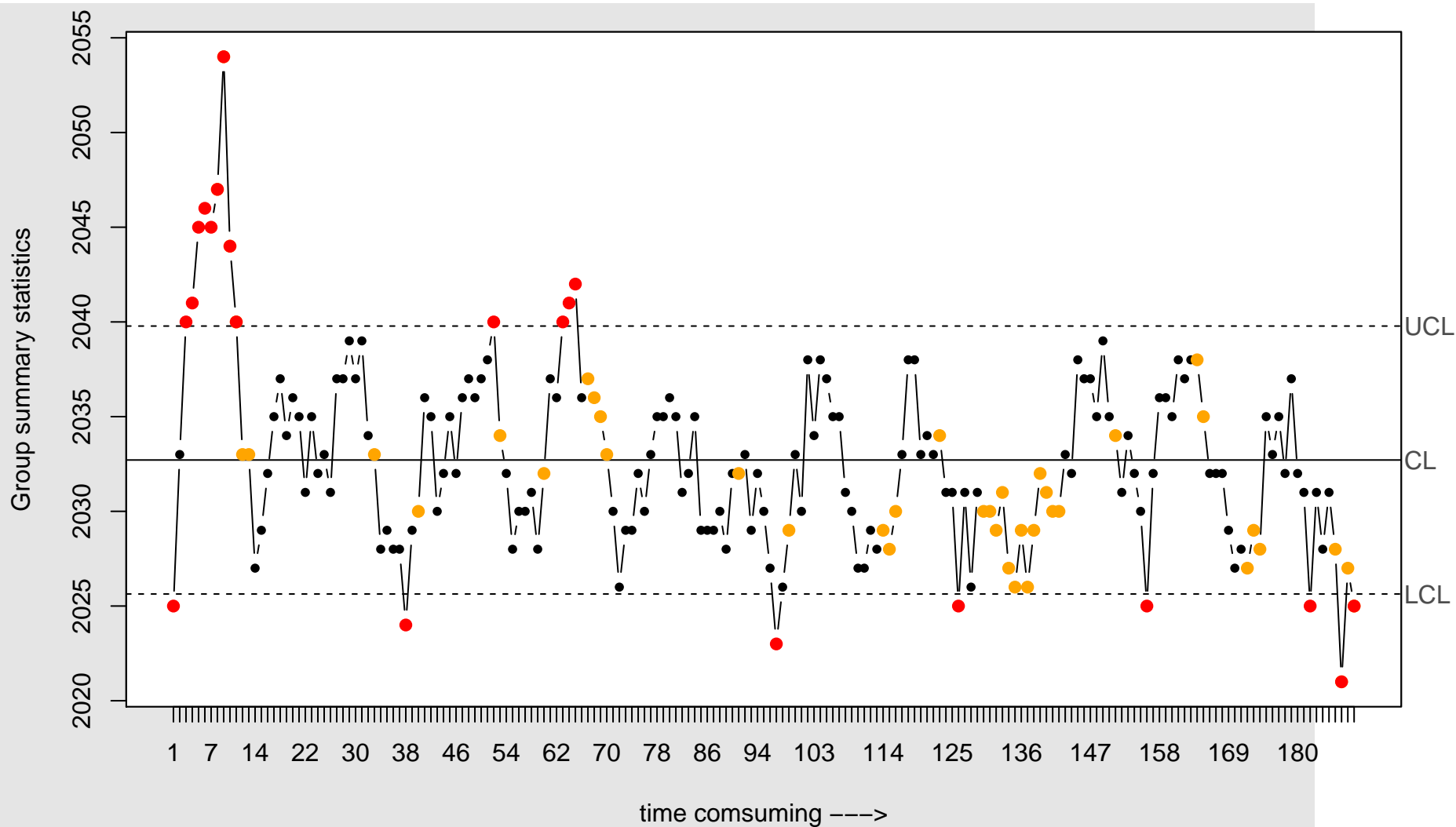
LCL = 2024.93

UCL = 2039.049

Number beyond limits = 17

Number violating runs = 48

82th column point of this product



Number of groups = 189

Center = 2032.709

StdDev = 2.357779

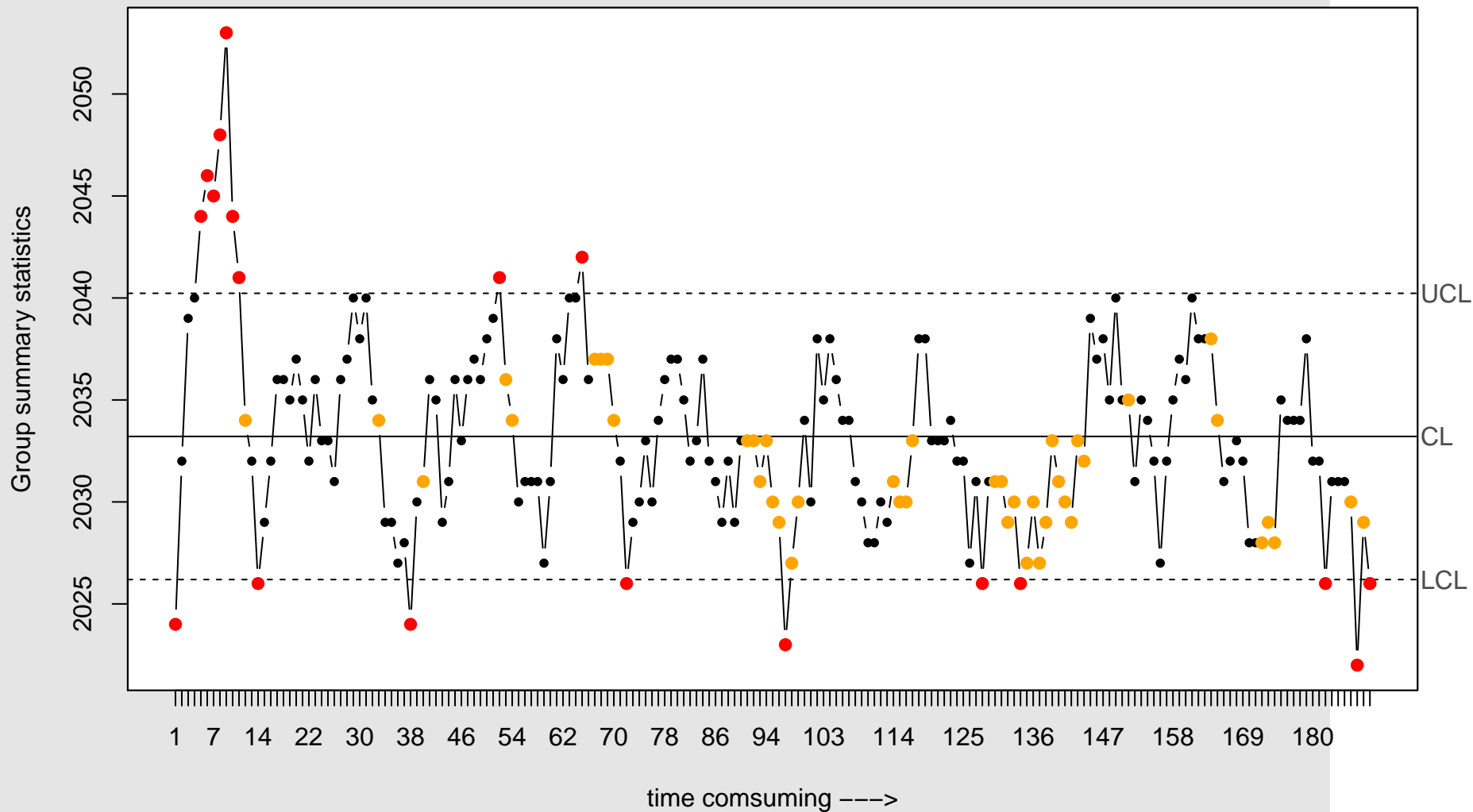
LCL = 2025.636

UCL = 2039.782

Number beyond limits = 21

Number violating runs = 43

83th column point of this product

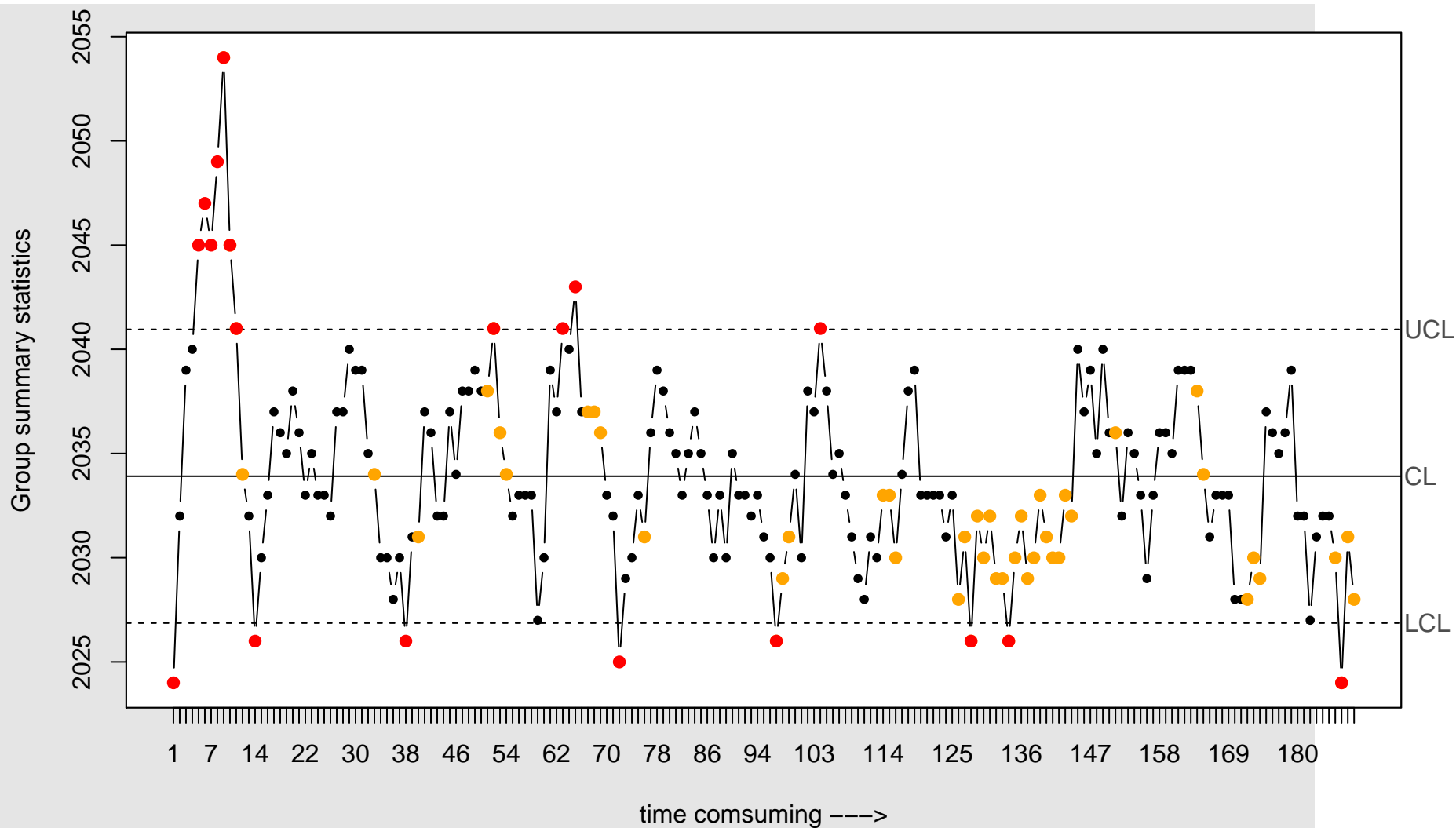


Number of groups = 189
 Center = 2033.212
 StdDev = 2.338917

LCL = 2026.195
 UCL = 2040.228

Number beyond limits = 19
 Number violating runs = 50

84th column point of this product



Number of groups = 189

Center = 2033.91

StdDev = 2.348348

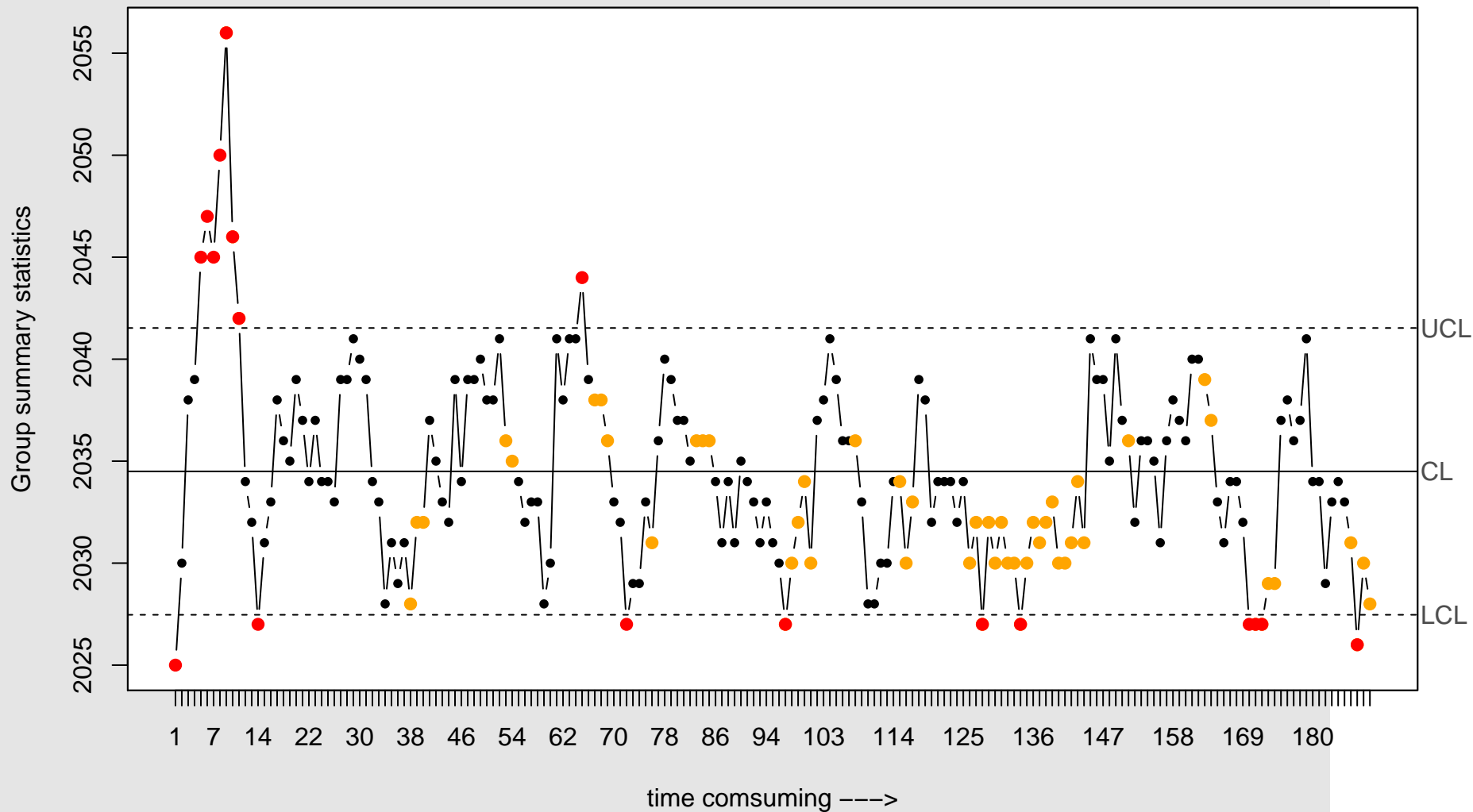
LCL = 2026.865

UCL = 2040.955

Number beyond limits = 19

Number violating runs = 49

85th column point of this product



Number of groups = 189

Center = 2034.497

StdDev = 2.343632

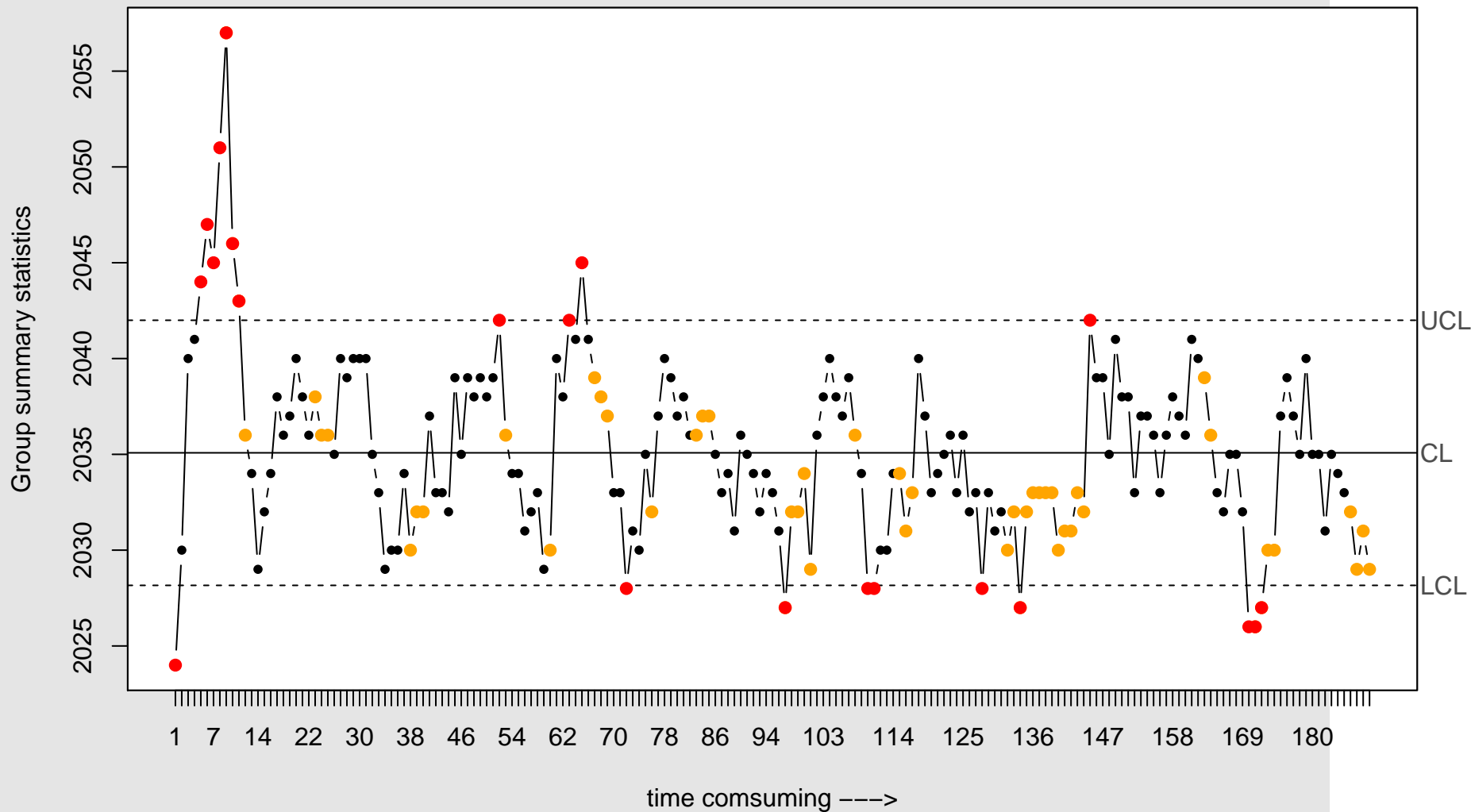
LCL = 2027.466

UCL = 2041.528

Number beyond limits = 18

Number violating runs = 54

86th column point of this product

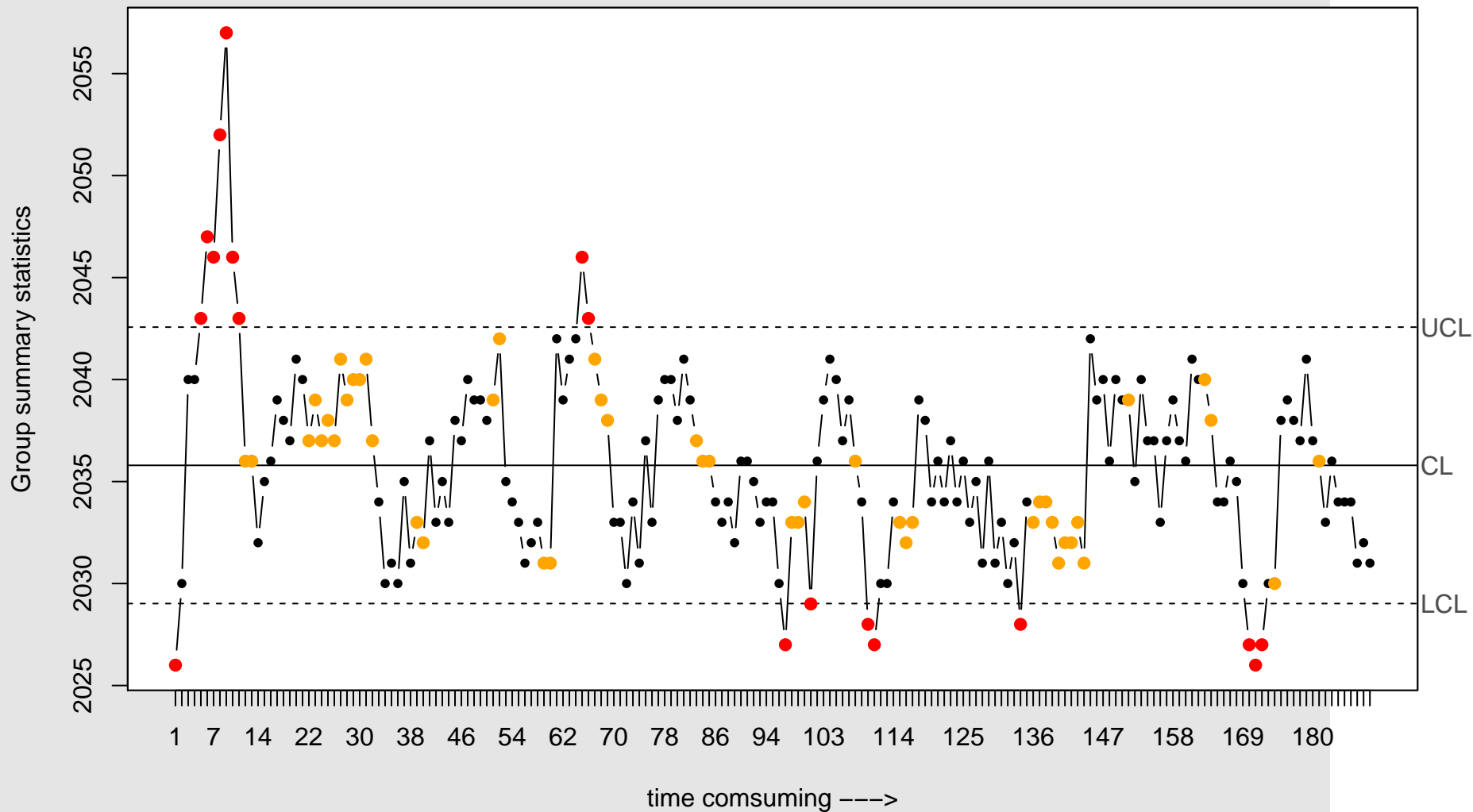


Number of groups = 189
 Center = 2035.079
 StdDev = 2.305908

LCL = 2028.162
 UCL = 2041.997

Number beyond limits = 21
 Number violating runs = 51

87th column point of this product



Number of groups = 189

Center = 2035.794

StdDev = 2.258752

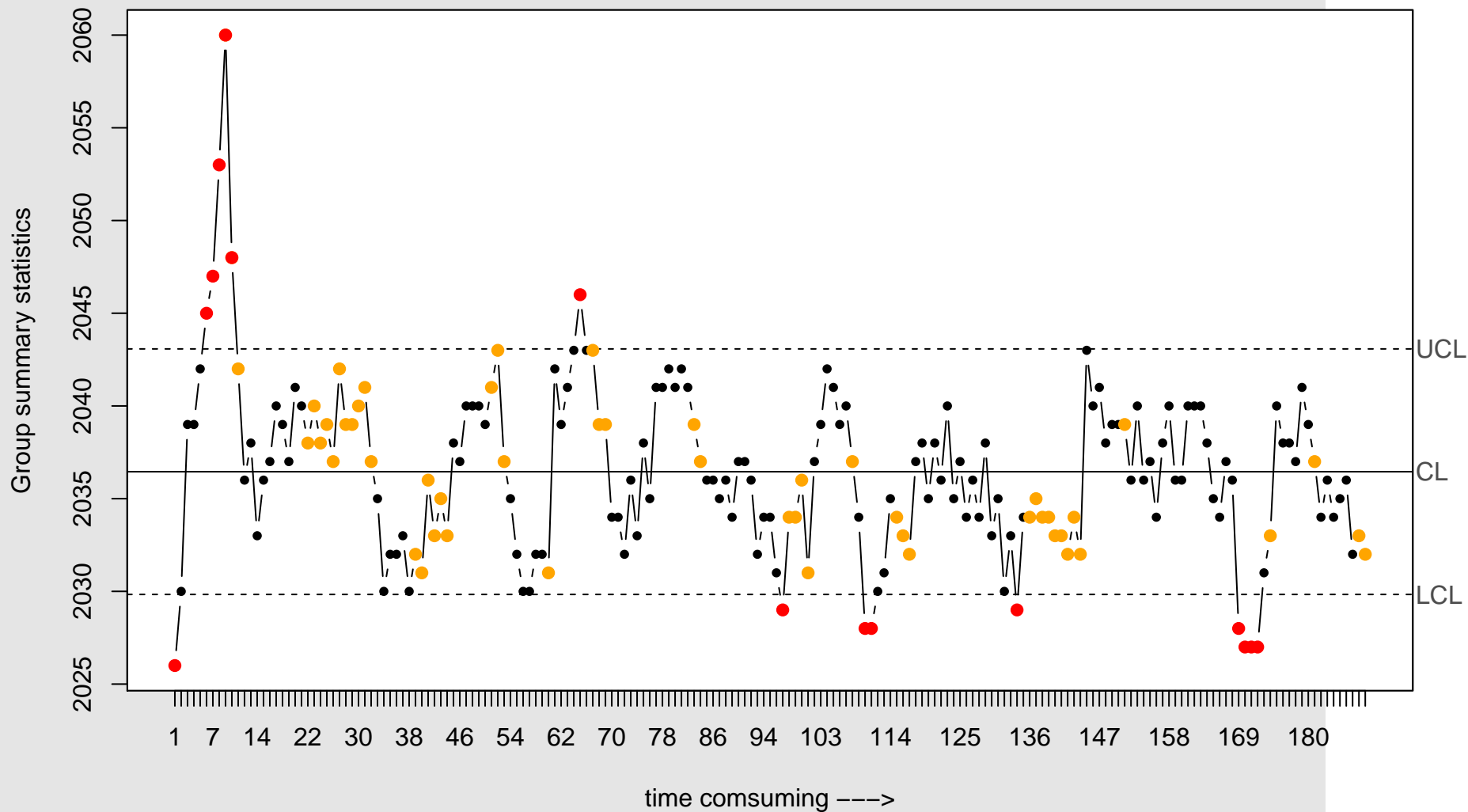
LCL = 2029.017

UCL = 2042.57

Number beyond limits = 18

Number violating runs = 50

88th column point of this product

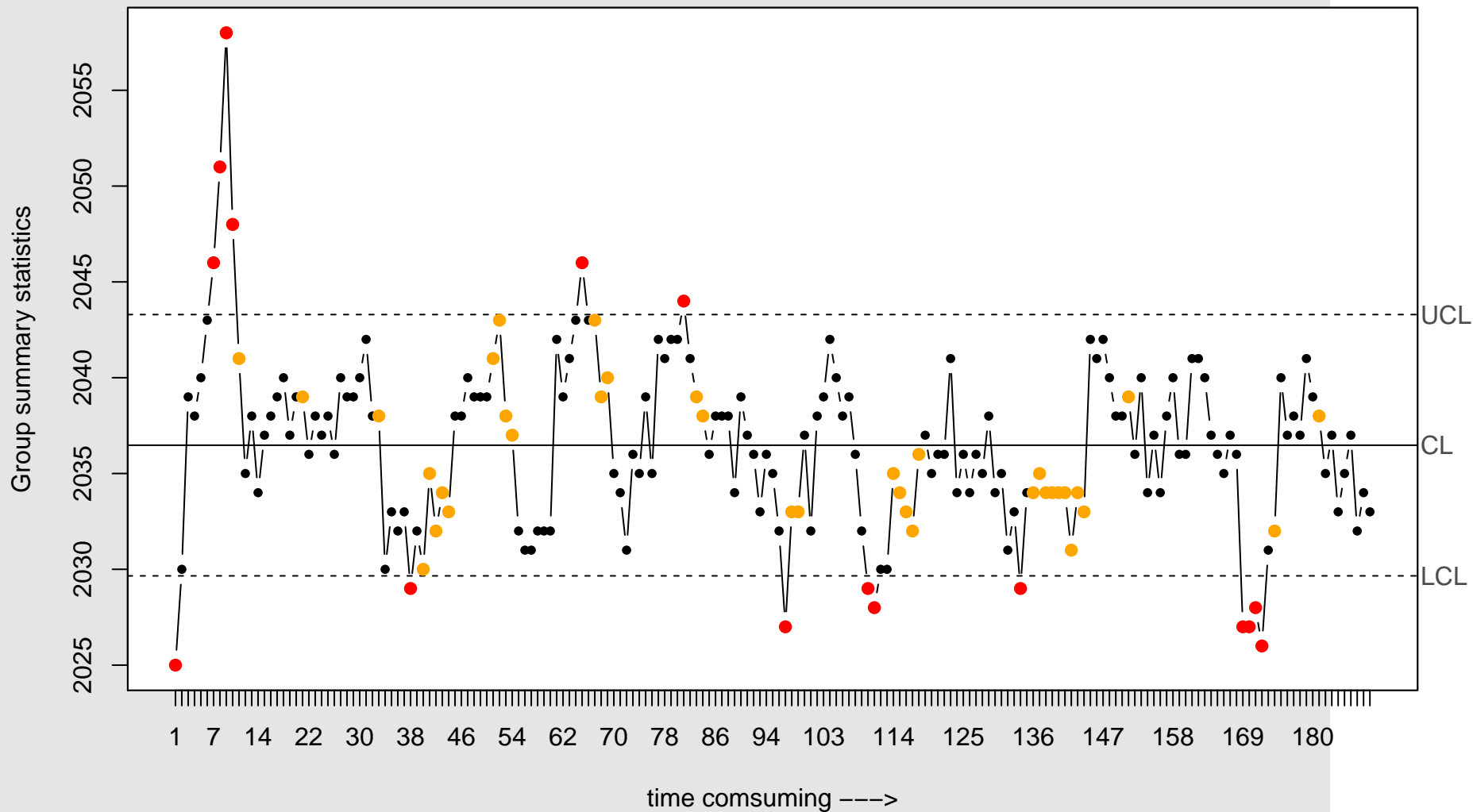


Number of groups = 189
 Center = 2036.455
 StdDev = 2.206881

LCL = 2029.834
 UCL = 2043.076

Number beyond limits = 15
 Number violating runs = 51

89th column point of this product



Number of groups = 189

Center = 2036.476

StdDev = 2.272899

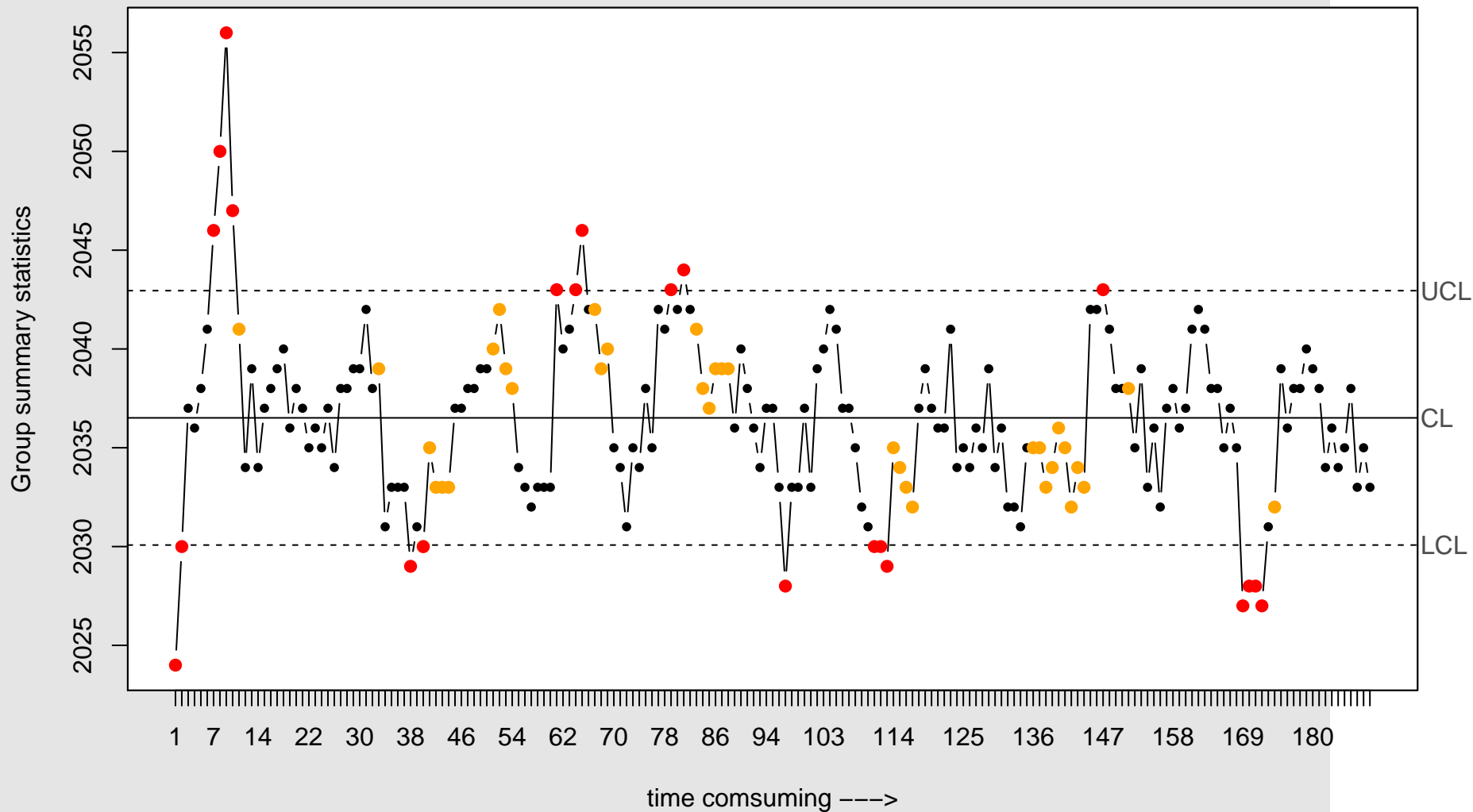
LCL = 2029.657

UCL = 2043.295

Number beyond limits = 16

Number violating runs = 38

90th column point of this product



Number of groups = 189

Center = 2036.513

StdDev = 2.145579

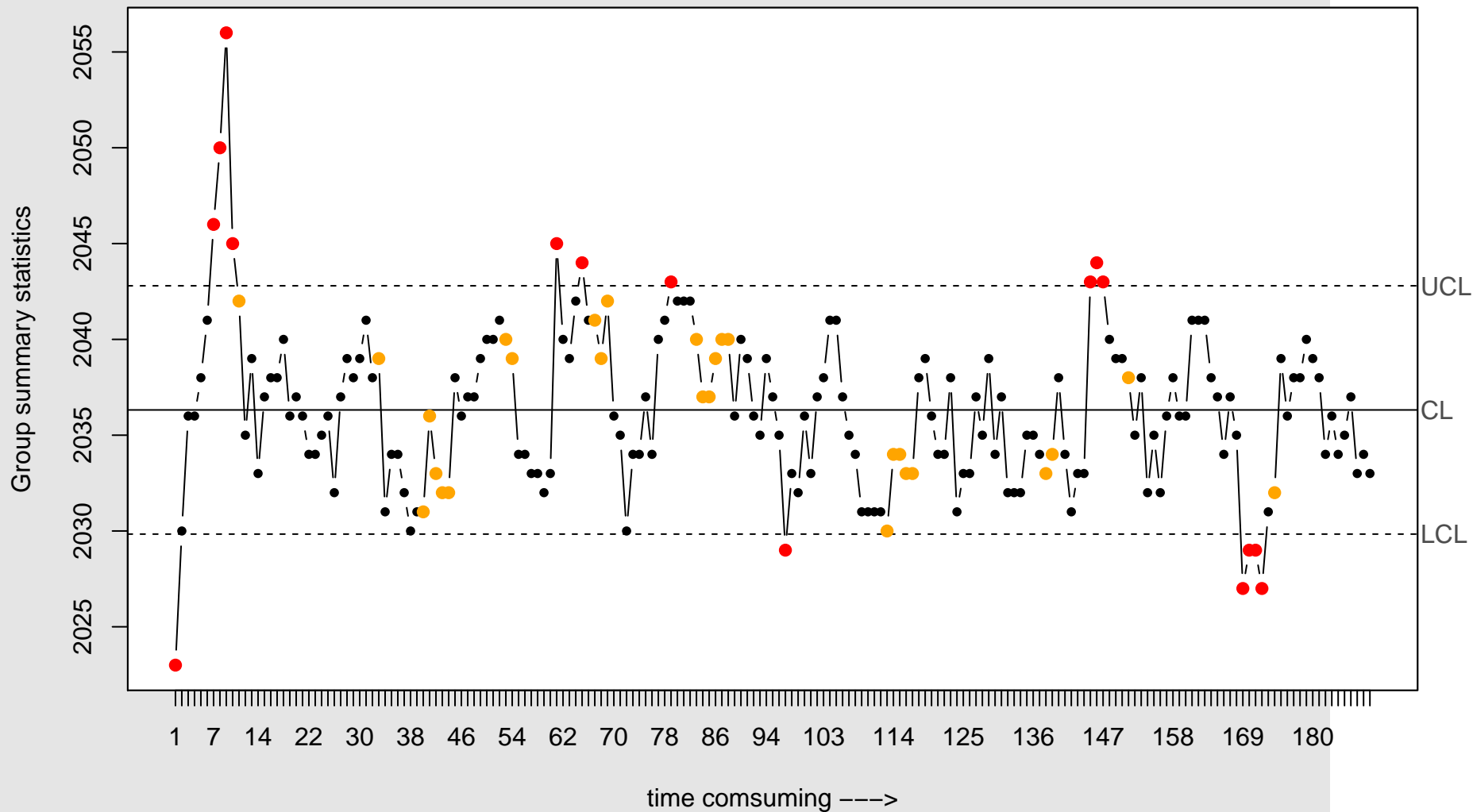
LCL = 2030.076

UCL = 2042.95

Number beyond limits = 22

Number violating runs = 35

91th column point of this product

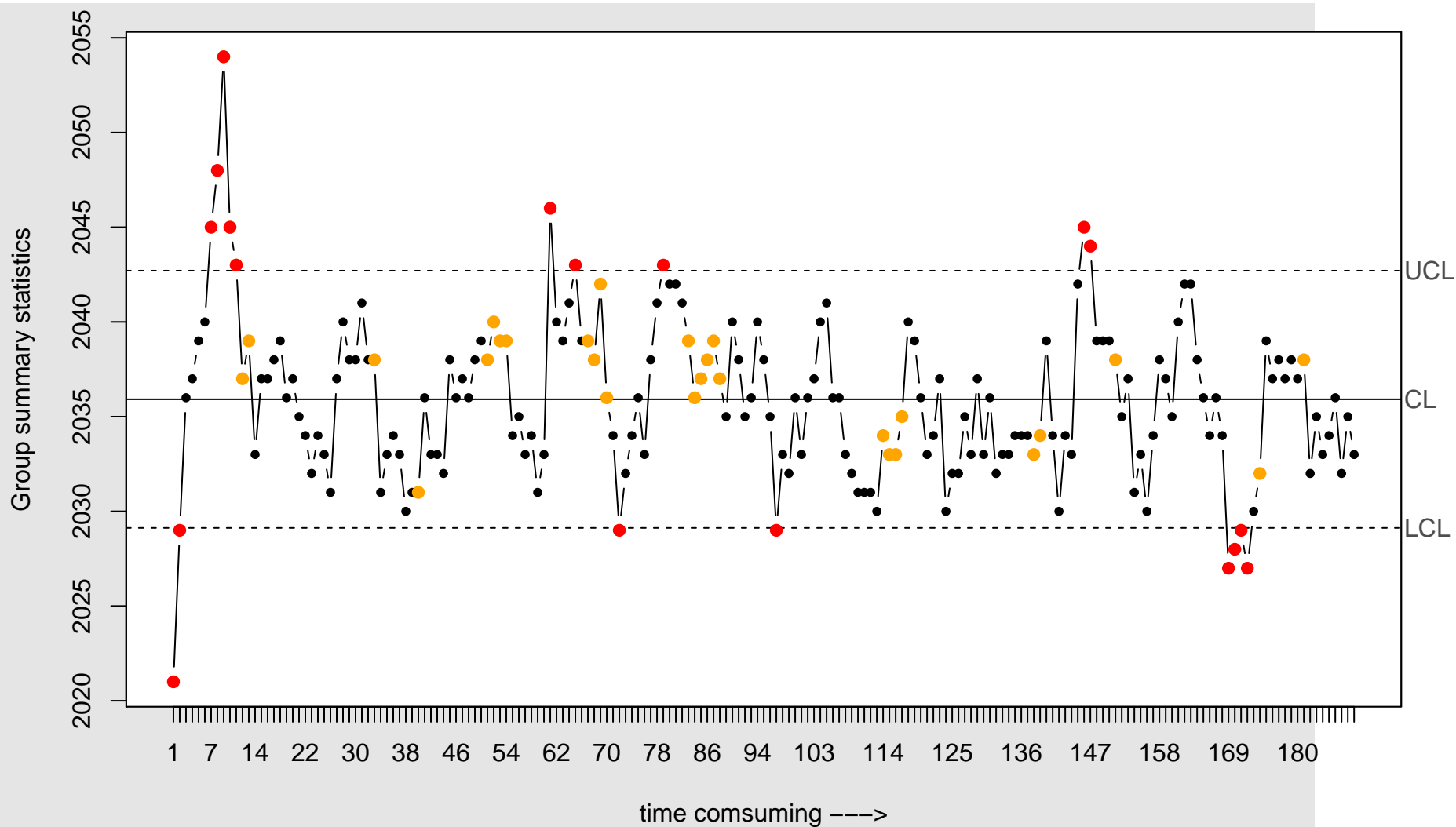


Number of groups = 189
Center = 2036.317
StdDev = 2.159725

LCL = 2029.838
UCL = 2042.797

Number beyond limits = 16
Number violating runs = 27

92th column point of this product



Number of groups = 189

Center = 2035.915

StdDev = 2.263468

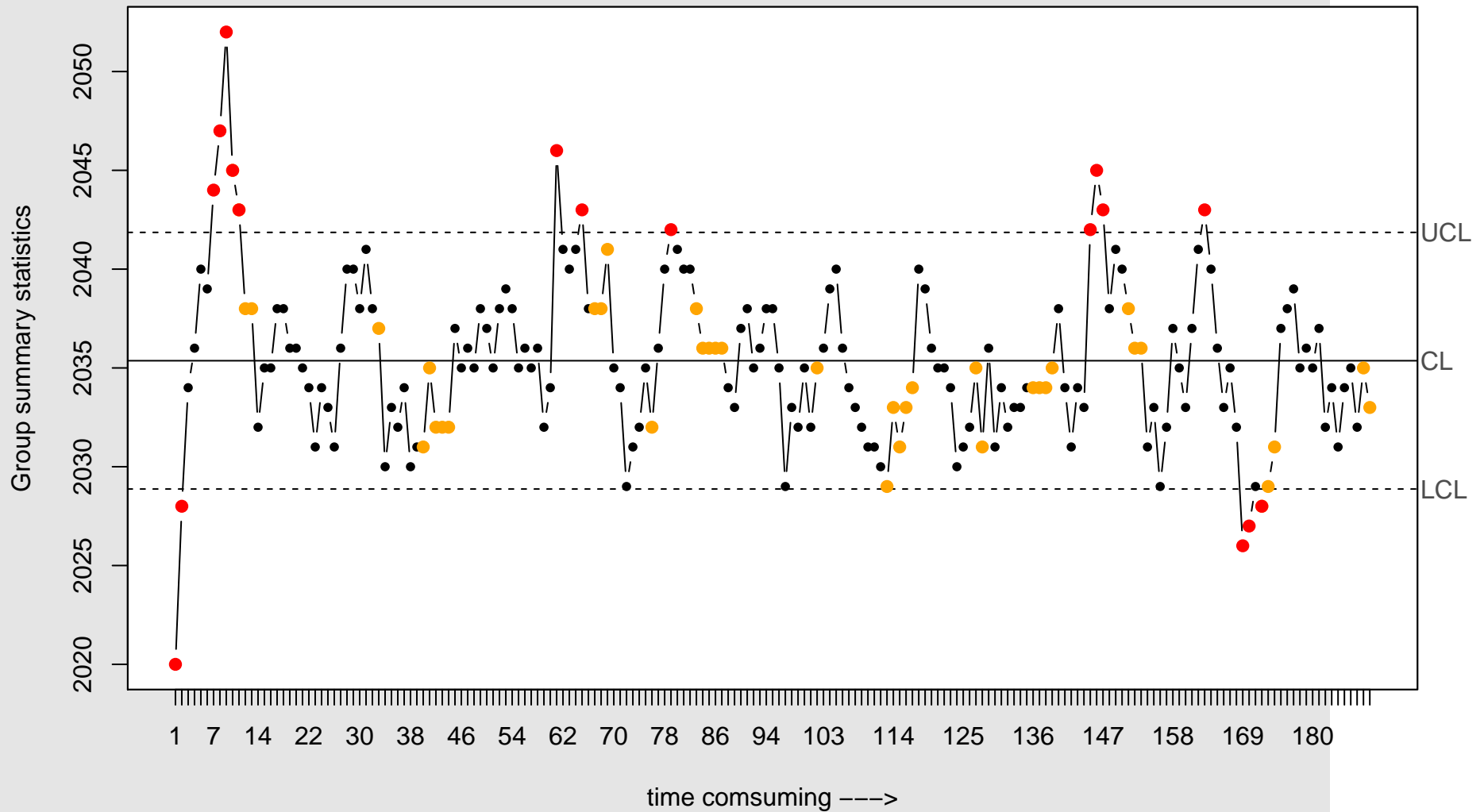
LCL = 2029.125

UCL = 2042.706

Number beyond limits = 18

Number violating runs = 30

93th column point of this product

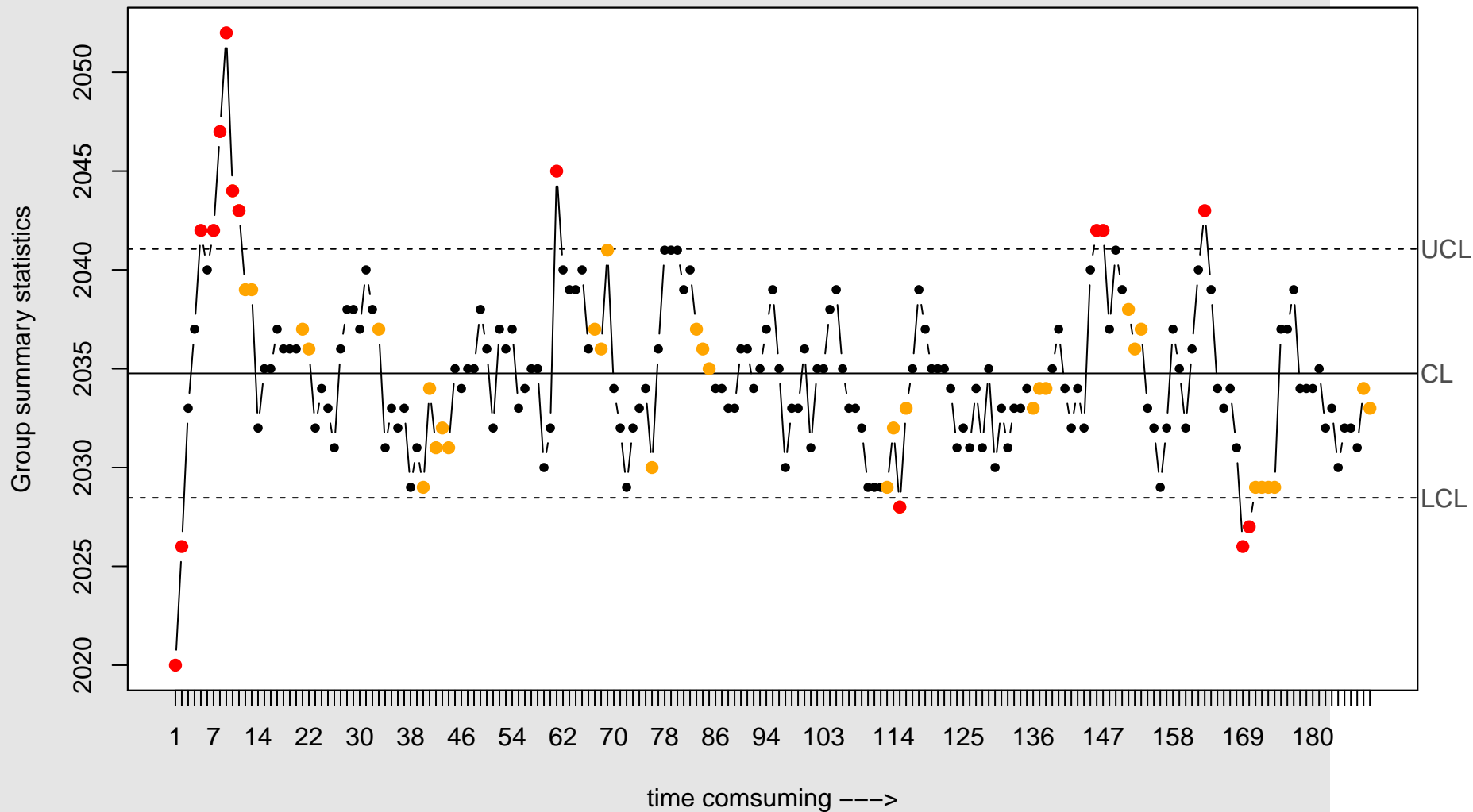


Number of groups = 189
 Center = 2035.365
 StdDev = 2.164441

LCL = 2028.872
 UCL = 2041.858

Number beyond limits = 17
 Number violating runs = 39

94th column point of this product



Number of groups = 189

Center = 2034.762

StdDev = 2.098423

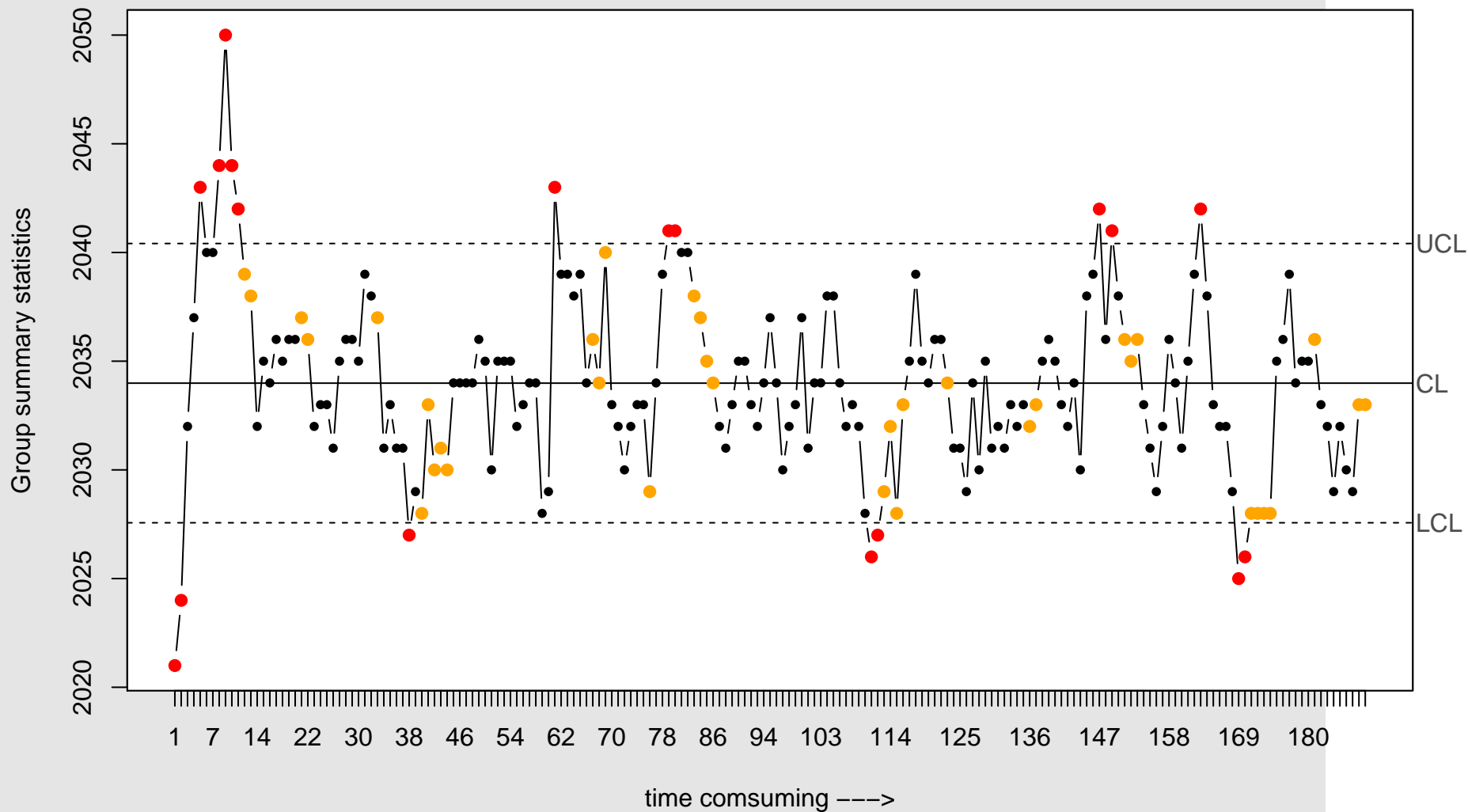
LCL = 2028.467

UCL = 2041.057

Number beyond limits = 15

Number violating runs = 35

95th column point of this product

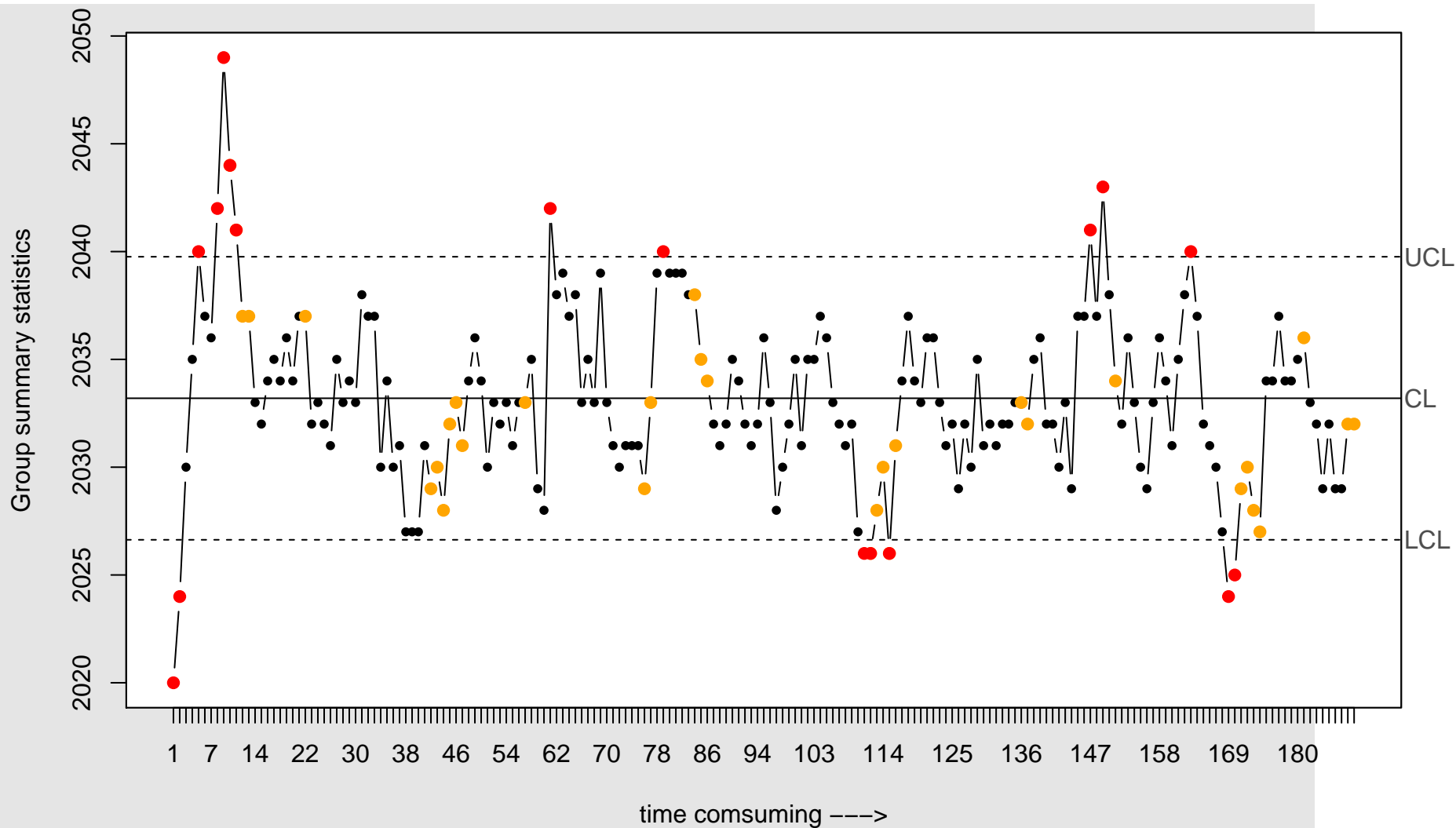


Number of groups = 189
 Center = 2033.989
 StdDev = 2.140863

LCL = 2027.567
 UCL = 2040.412

Number beyond limits = 18
 Number violating runs = 37

96th column point of this product

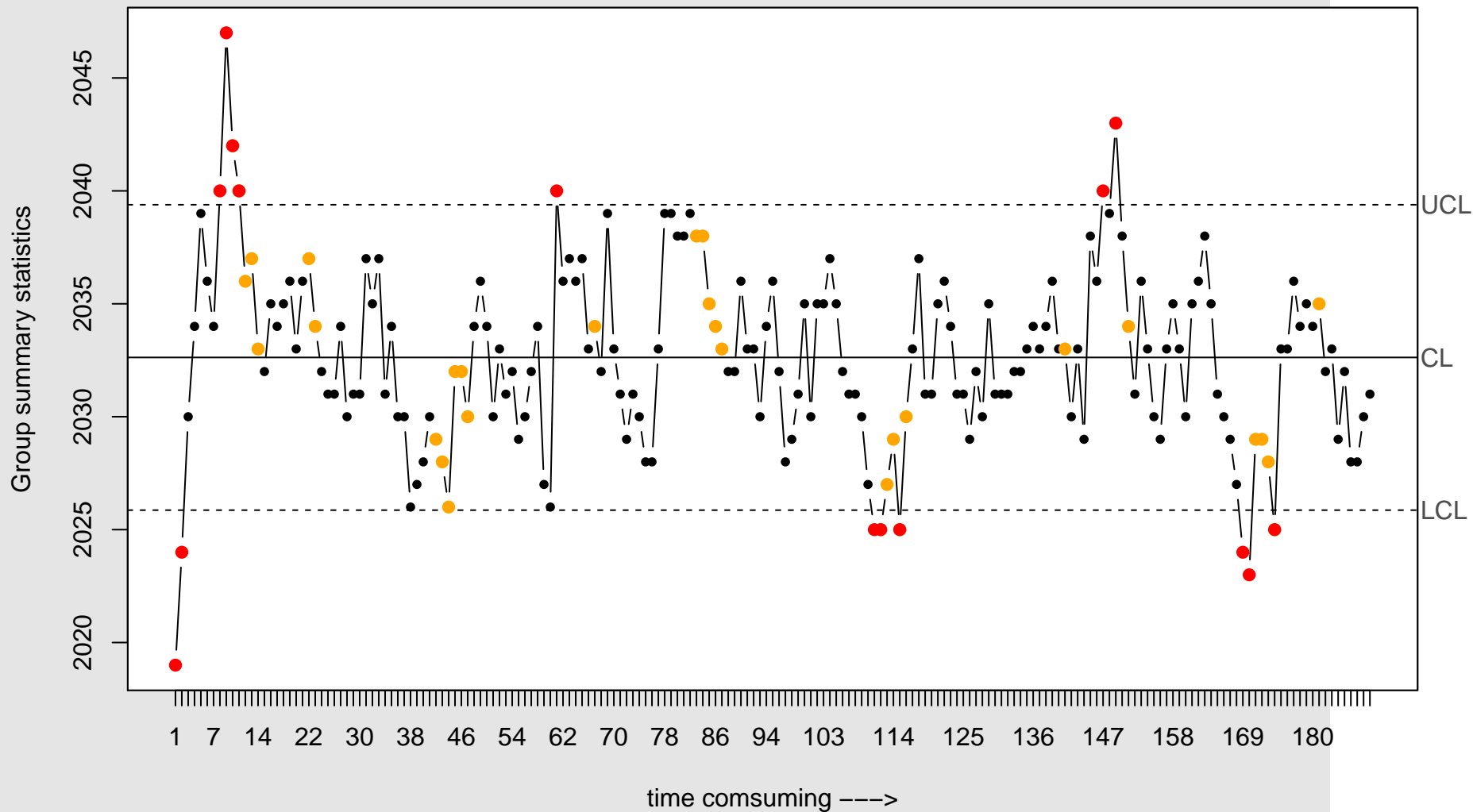


Number of groups = 189
Center = 2033.196
StdDev = 2.188019

LCL = 2026.632
UCL = 2039.76

Number beyond limits = 17
Number violating runs = 32

97th column point of this product

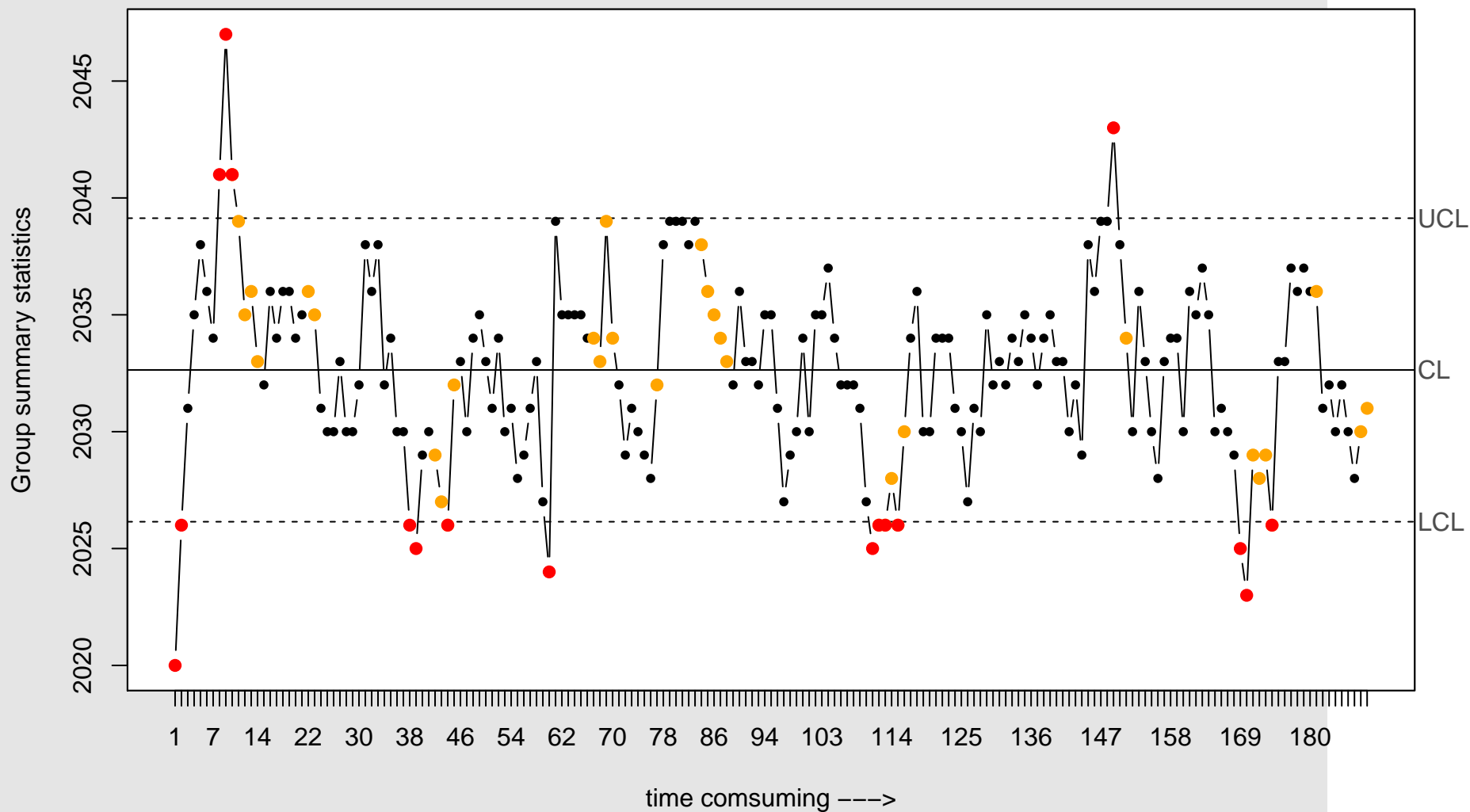


Number of groups = 189
Center = 2032.624
StdDev = 2.254037

LCL = 2025.862
UCL = 2039.386

Number beyond limits = 15
Number violating runs = 31

98th column point of this product



Number of groups = 189

Center = 2032.64

StdDev = 2.164441

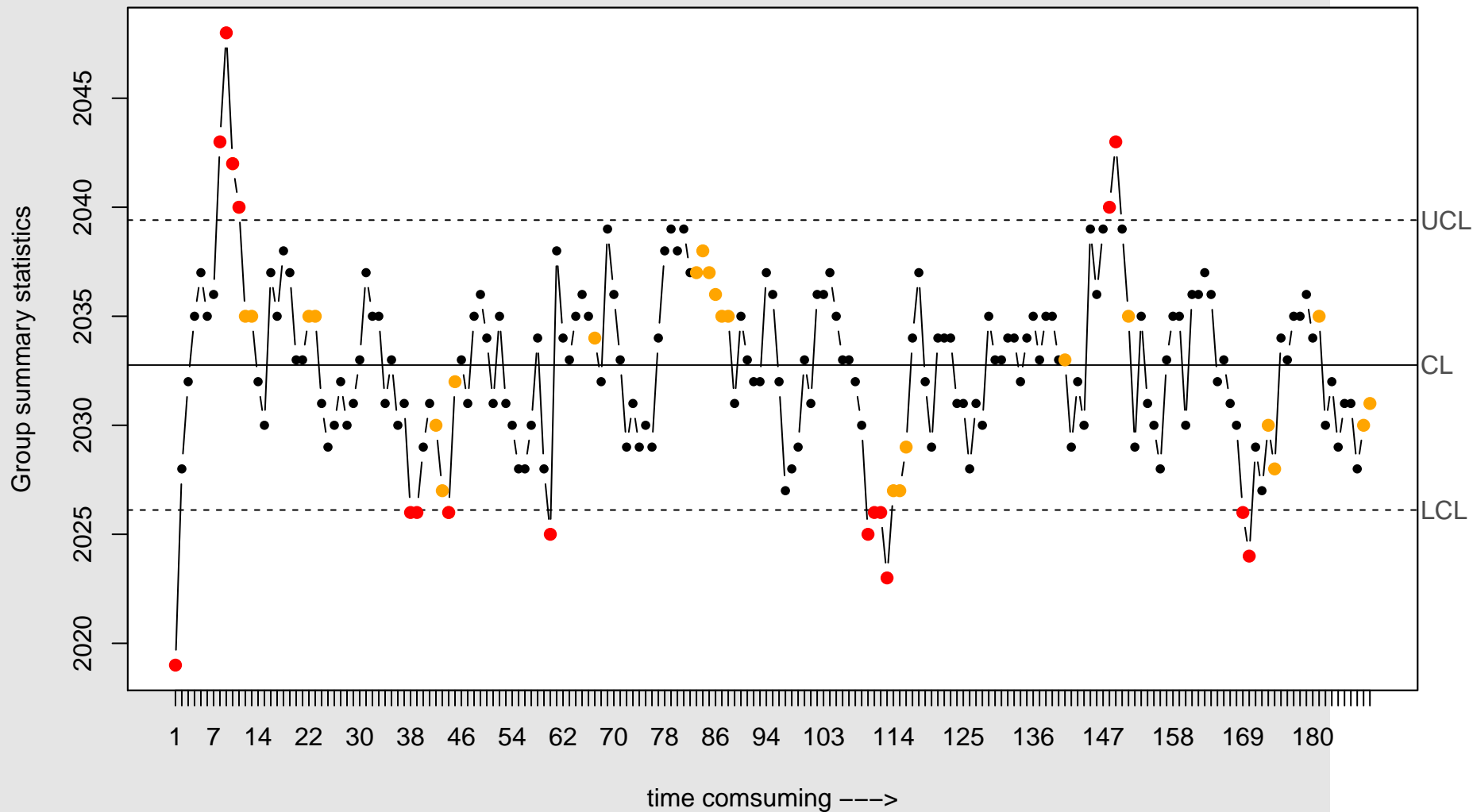
LCL = 2026.147

UCL = 2039.134

Number beyond limits = 17

Number violating runs = 34

99th column point of this product

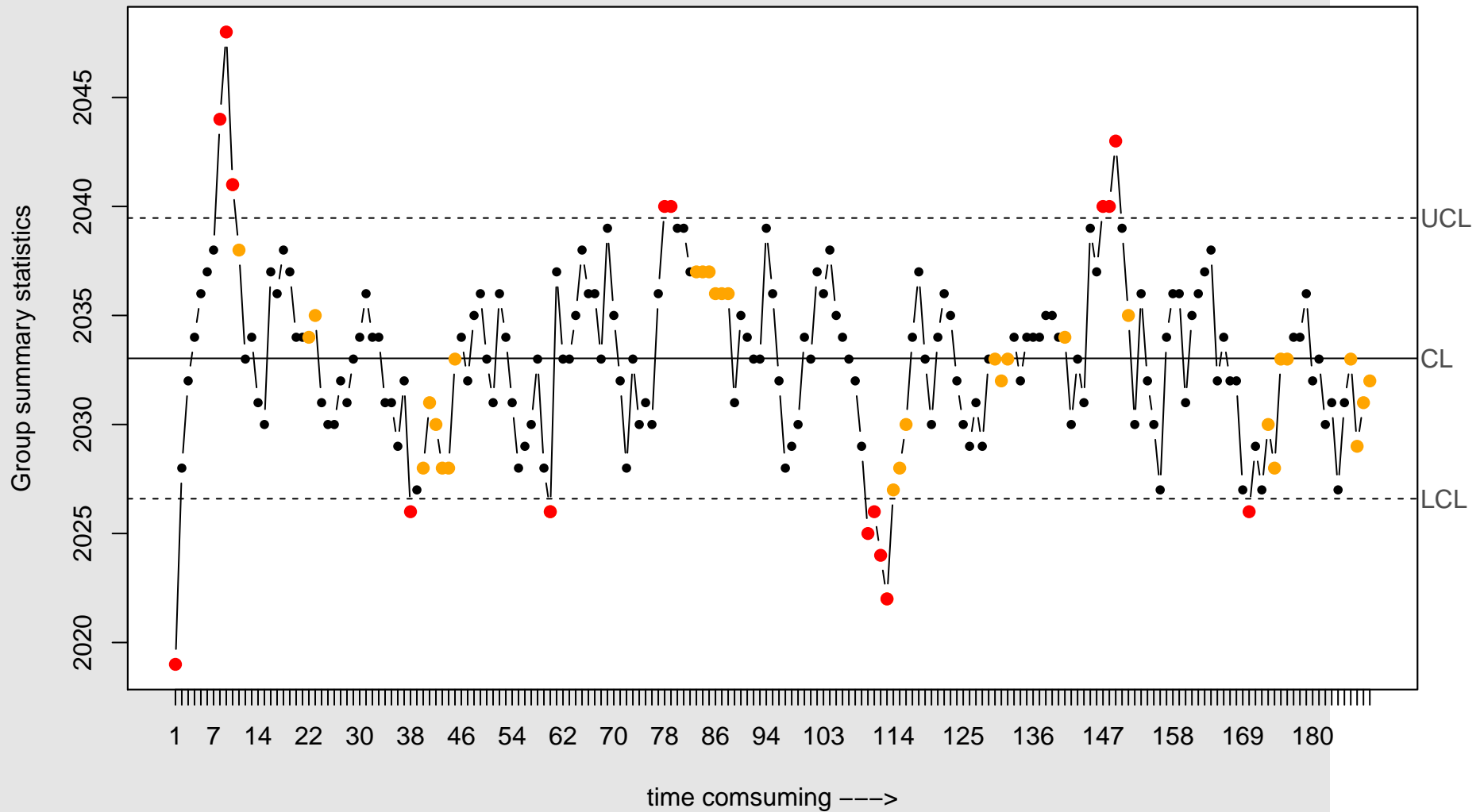


Number of groups = 189
Center = 2032.762
StdDev = 2.216312

LCL = 2026.113
UCL = 2039.411

Number beyond limits = 17
Number violating runs = 27

100th column point of this product

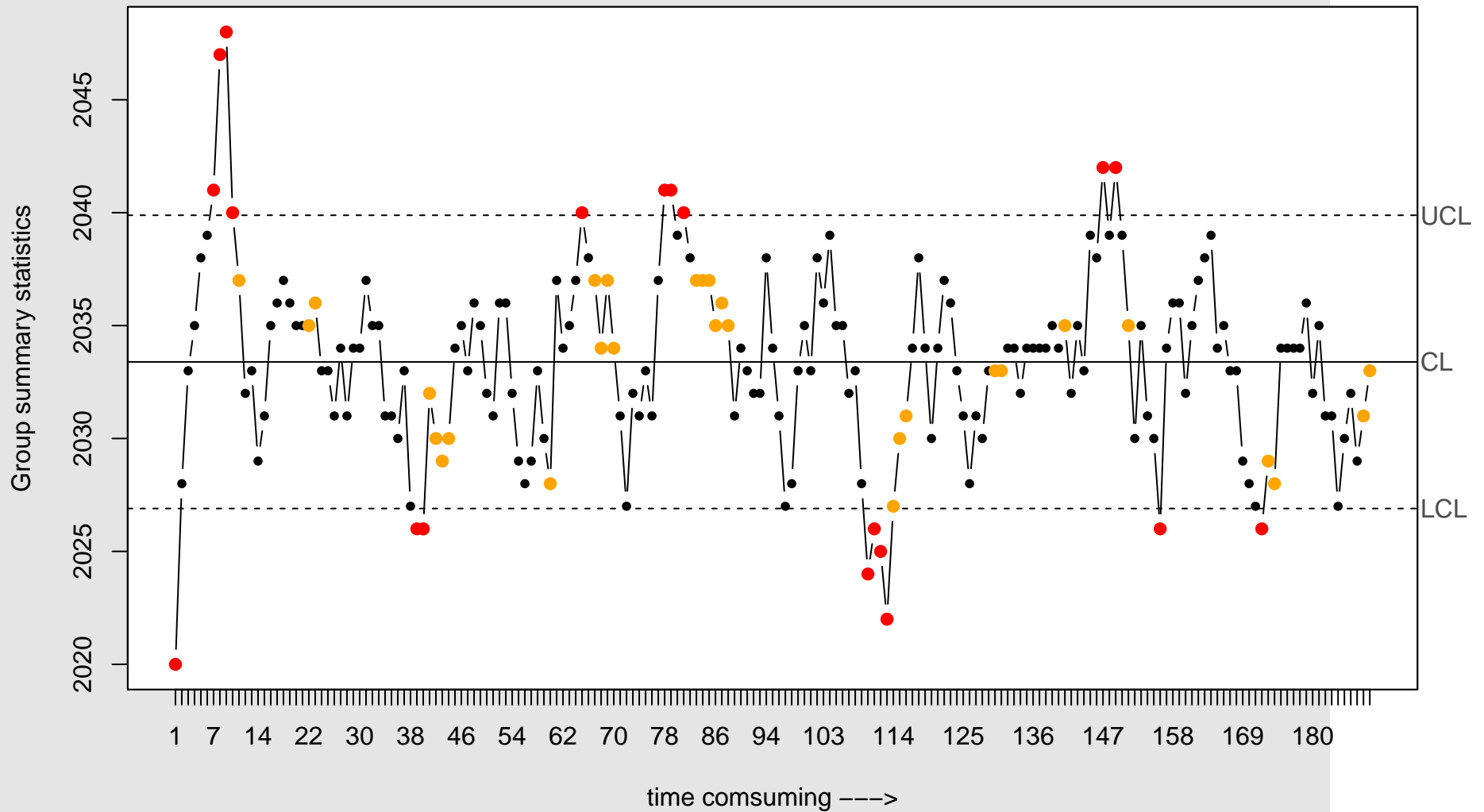


Number of groups = 189
Center = 2033.032
StdDev = 2.145579

LCL = 2026.595
UCL = 2039.468

Number beyond limits = 16
Number violating runs = 34

101th column point of this product

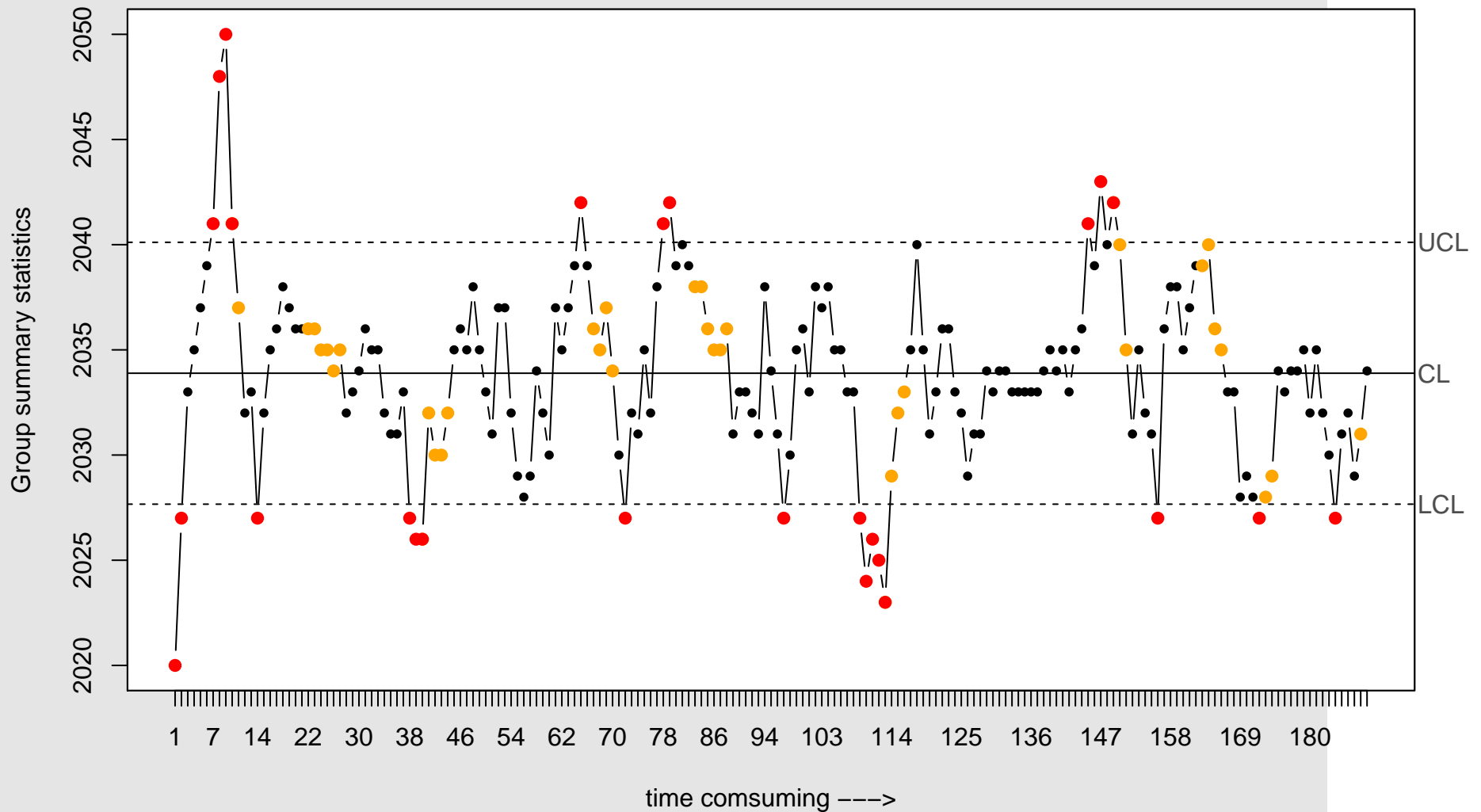


Number of groups = 189
Center = 2033.392
StdDev = 2.164441

LCL = 2026.898
UCL = 2039.885

Number beyond limits = 19
Number violating runs = 32

102th column point of this product



Number of groups = 189

Center = 2033.889

StdDev = 2.074845

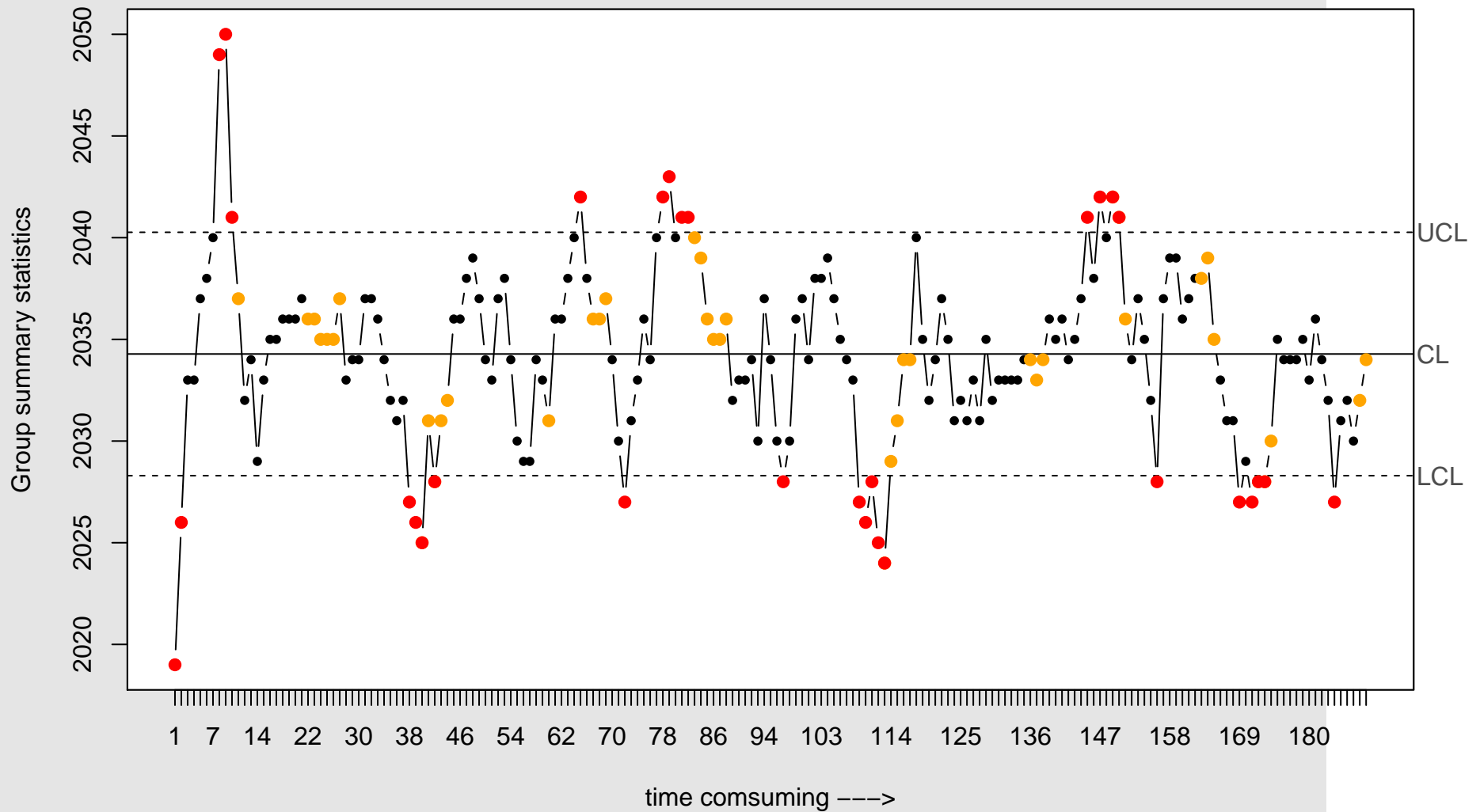
LCL = 2027.664

UCL = 2040.113

Number beyond limits = 26

Number violating runs = 37

103th column point of this product



Number of groups = 189

Center = 2034.28

StdDev = 1.994681

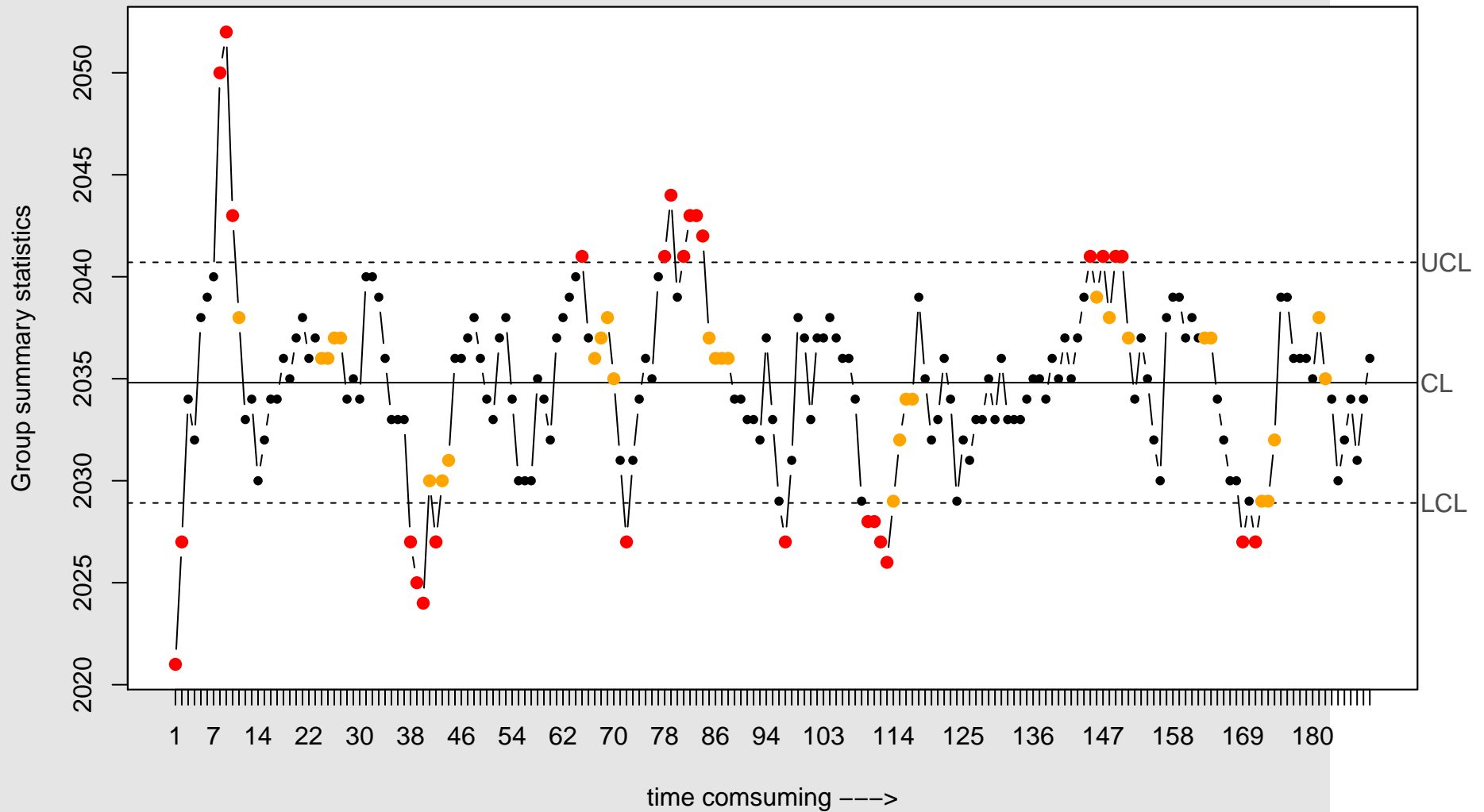
LCL = 2028.296

UCL = 2040.264

Number beyond limits = 31

Number violating runs = 41

104th column point of this product



Number of groups = 189

Center = 2034.81

StdDev = 1.966388

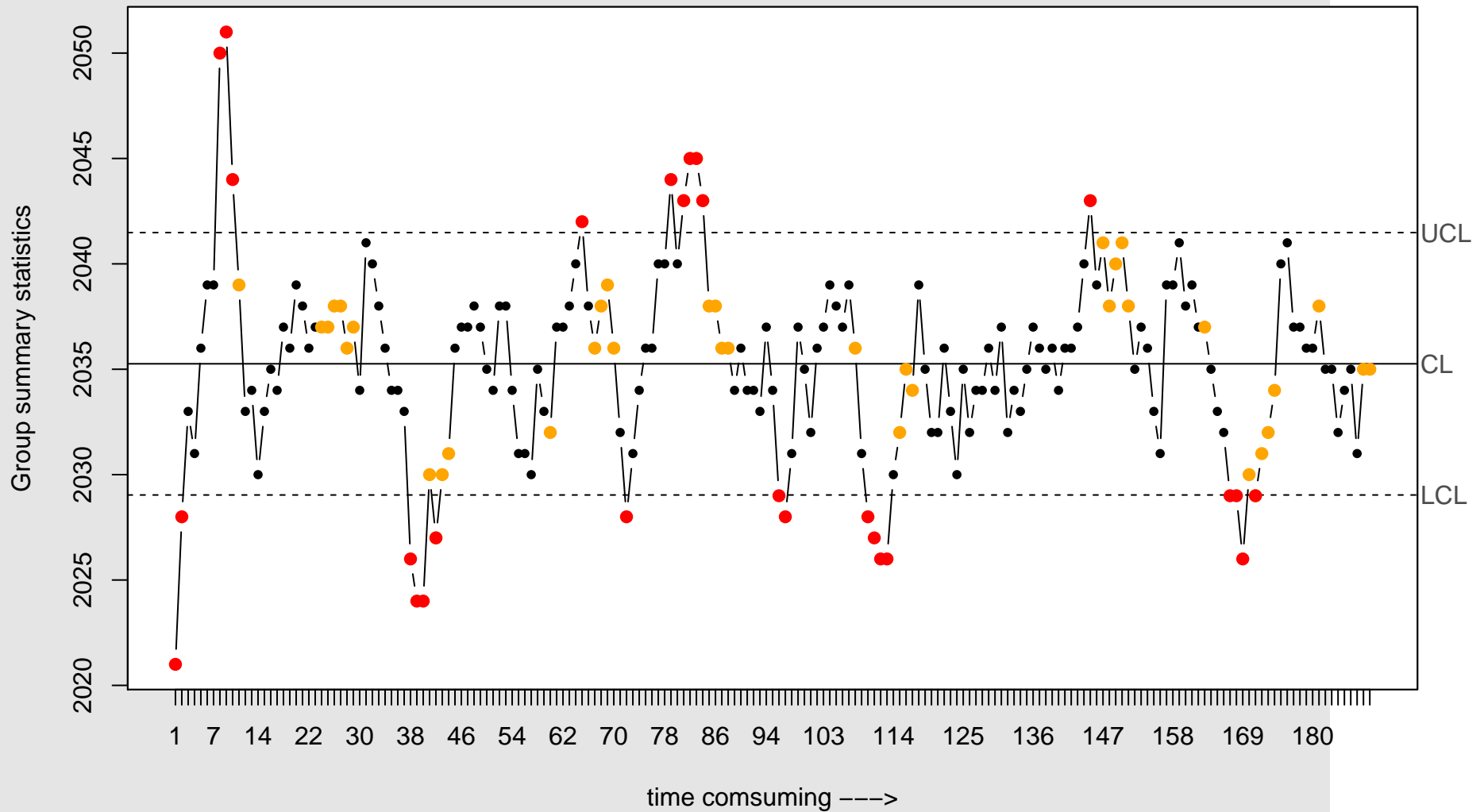
LCL = 2028.91

UCL = 2040.709

Number beyond limits = 28

Number violating runs = 40

105th column point of this product

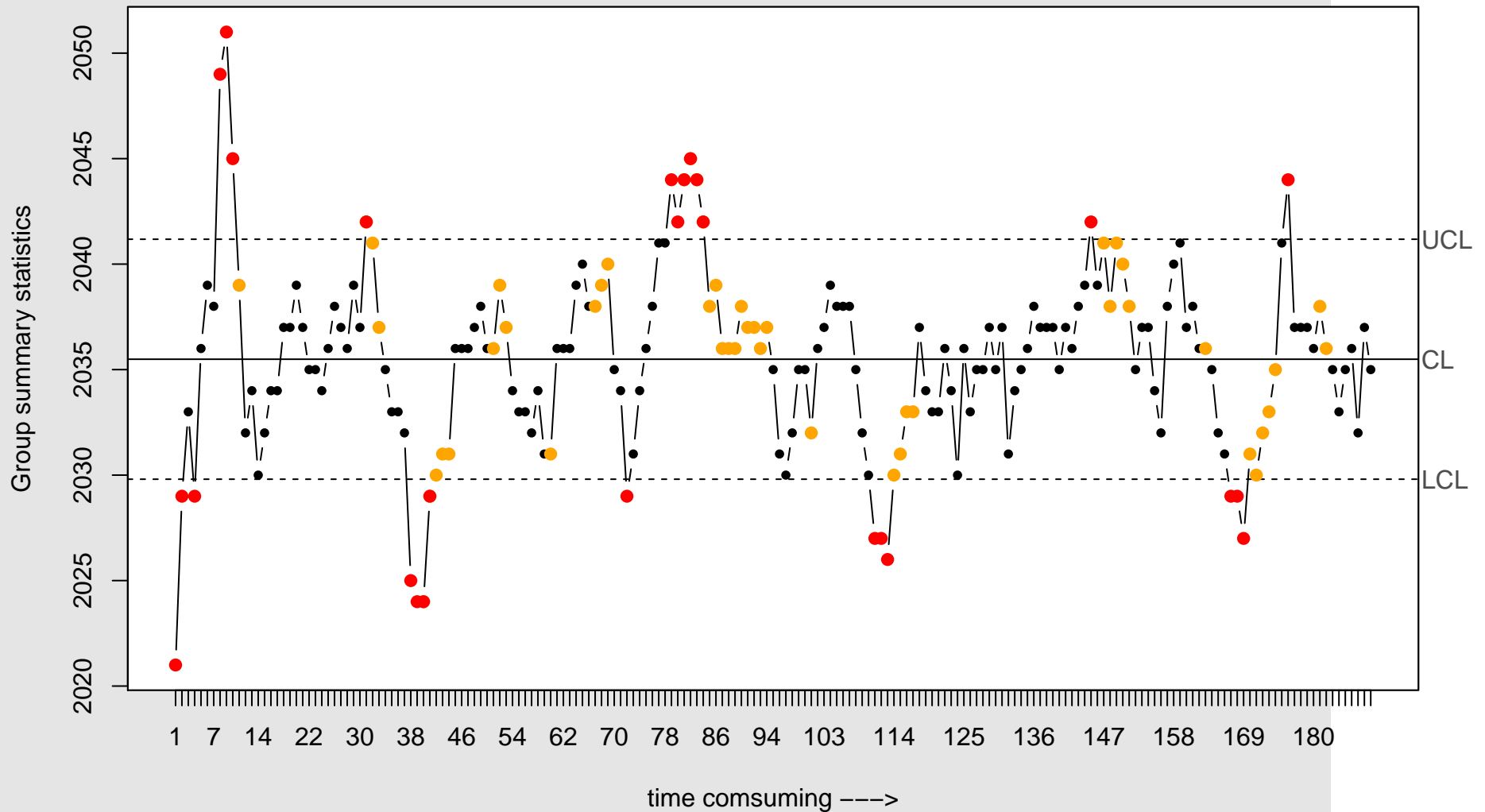


Number of groups = 189
Center = 2035.259
StdDev = 2.074845

LCL = 2029.035
UCL = 2041.484

Number beyond limits = 27
Number violating runs = 42

106th column point of this product

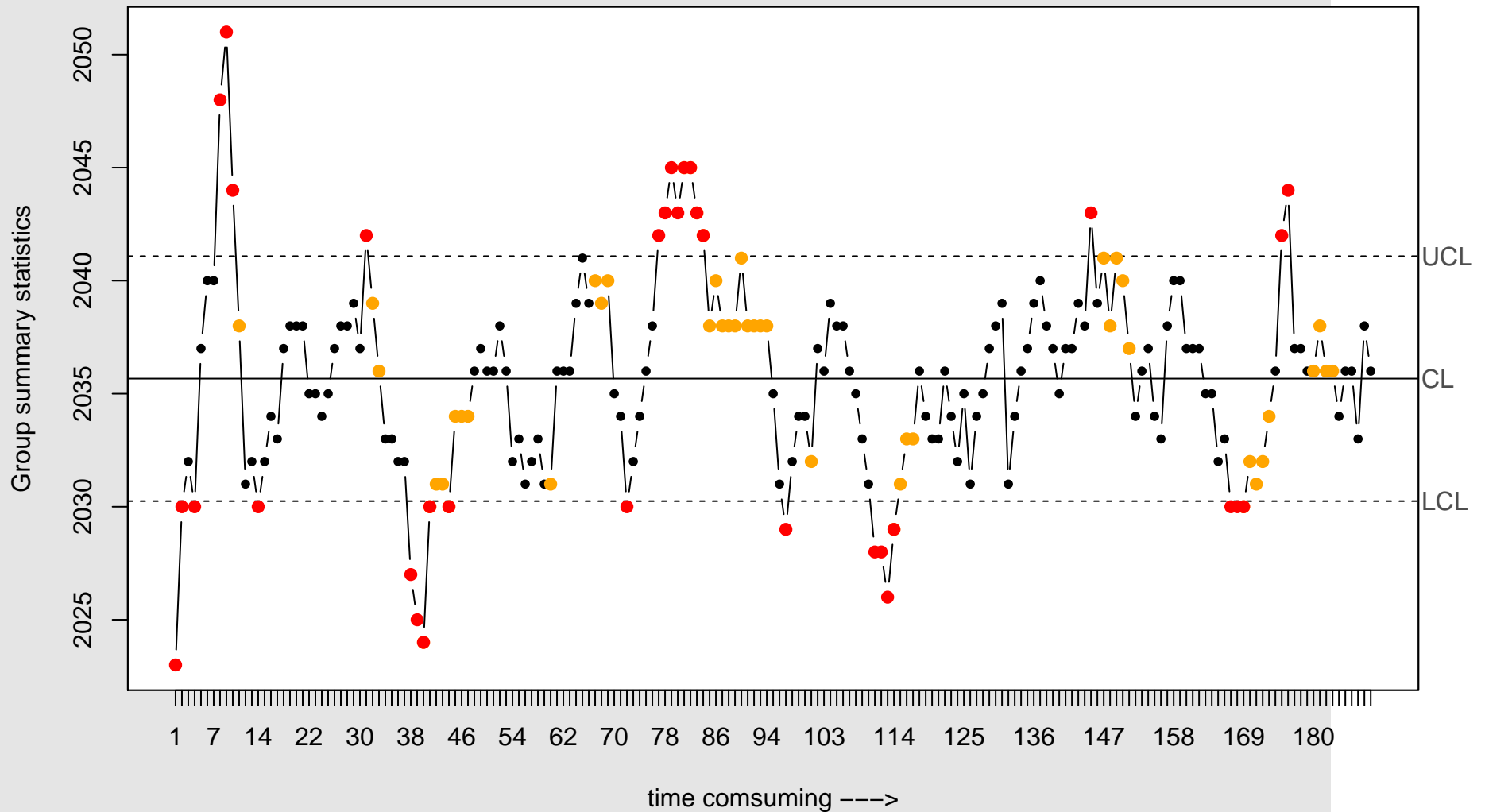


Number of groups = 189
 Center = 2035.492
 StdDev = 1.895654

LCL = 2029.805
 UCL = 2041.179

Number beyond limits = 26
 Number violating runs = 48

107th column point of this product



Number of groups = 189

Center = 2035.667

StdDev = 1.806059

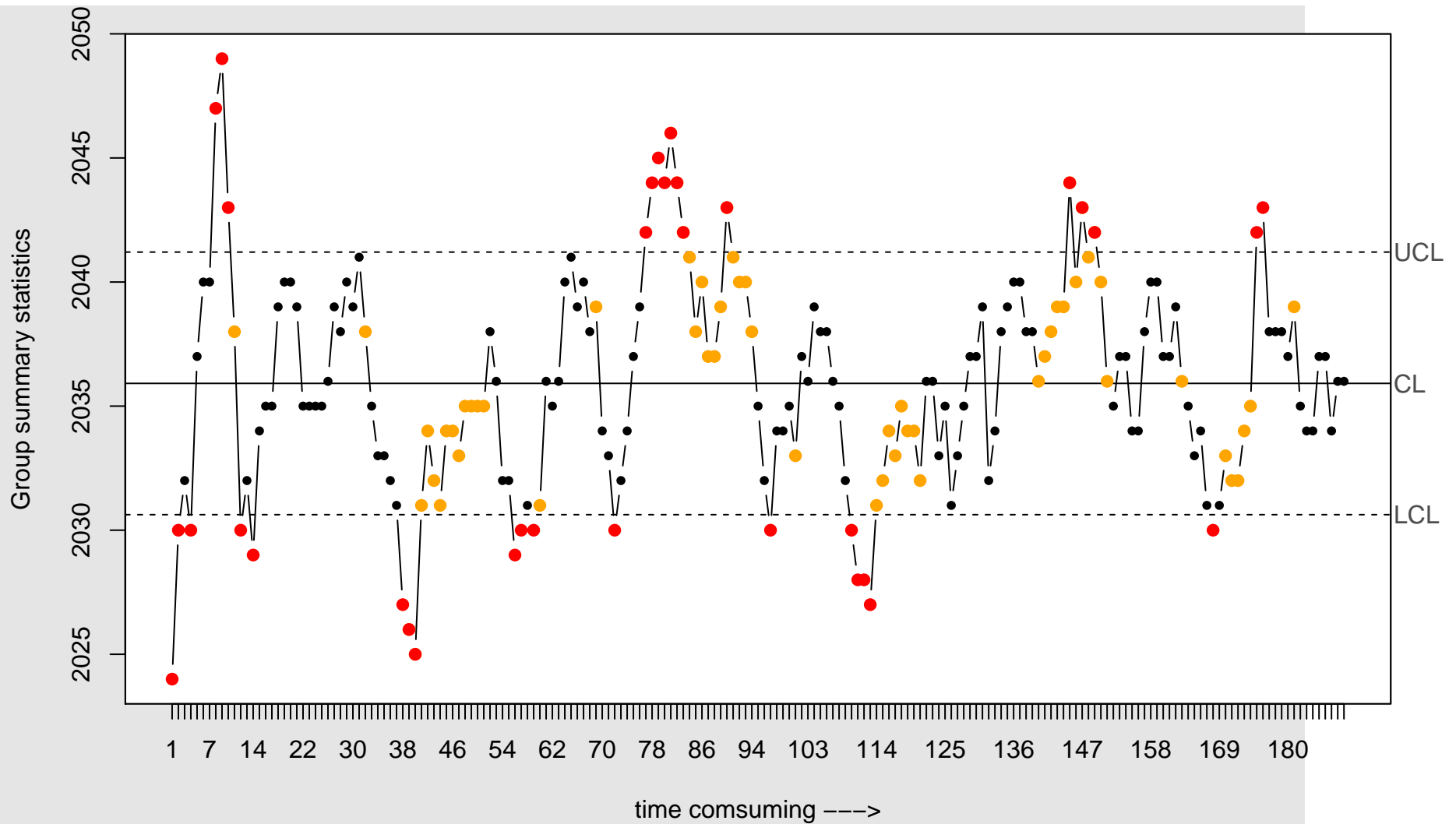
LCL = 2030.248

UCL = 2041.085

Number beyond limits = 33

Number violating runs = 48

108th column point of this product



Number of groups = 189

Center = 2035.915

StdDev = 1.763619

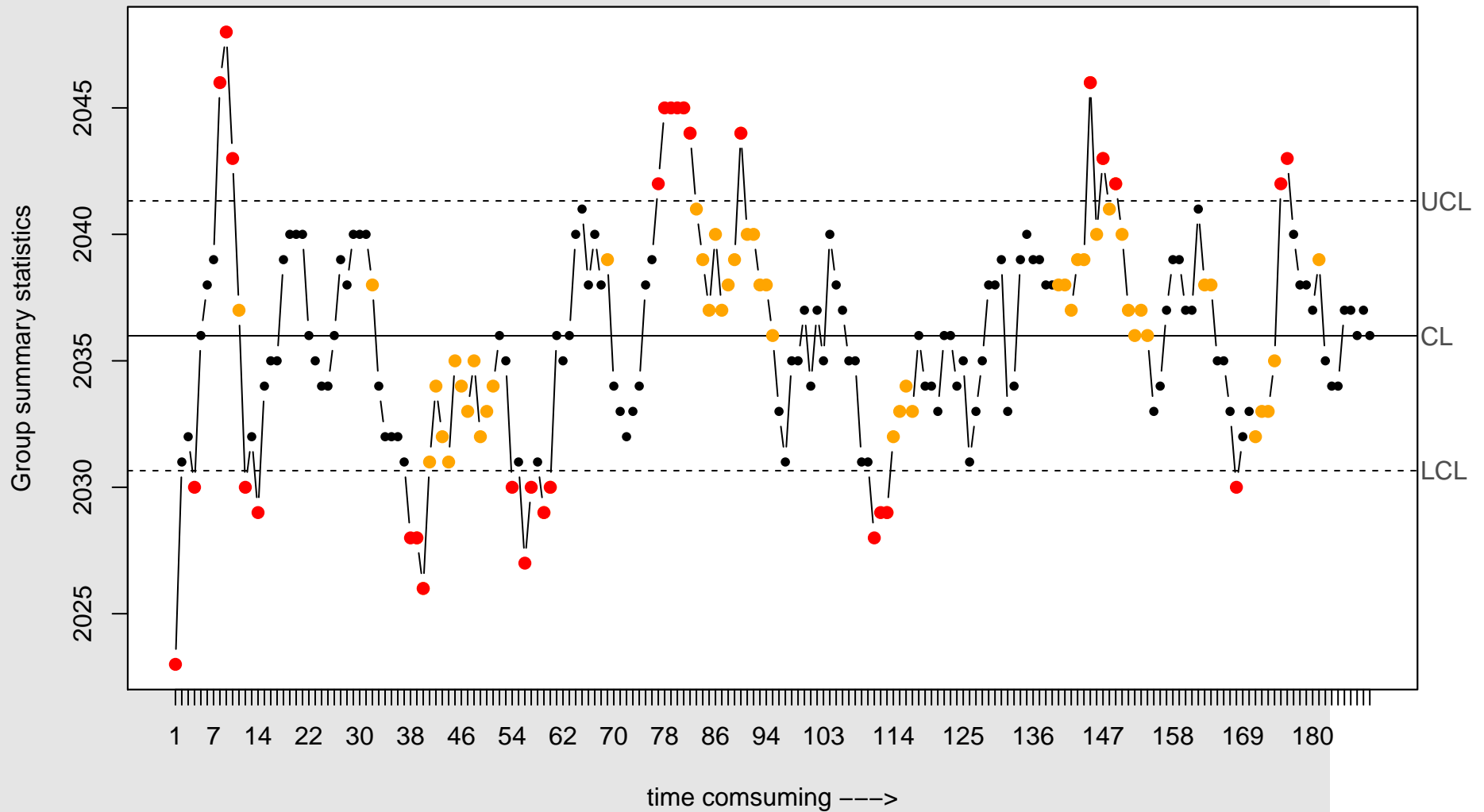
LCL = 2030.624

UCL = 2041.206

Number beyond limits = 34

Number violating runs = 59

109th column point of this product

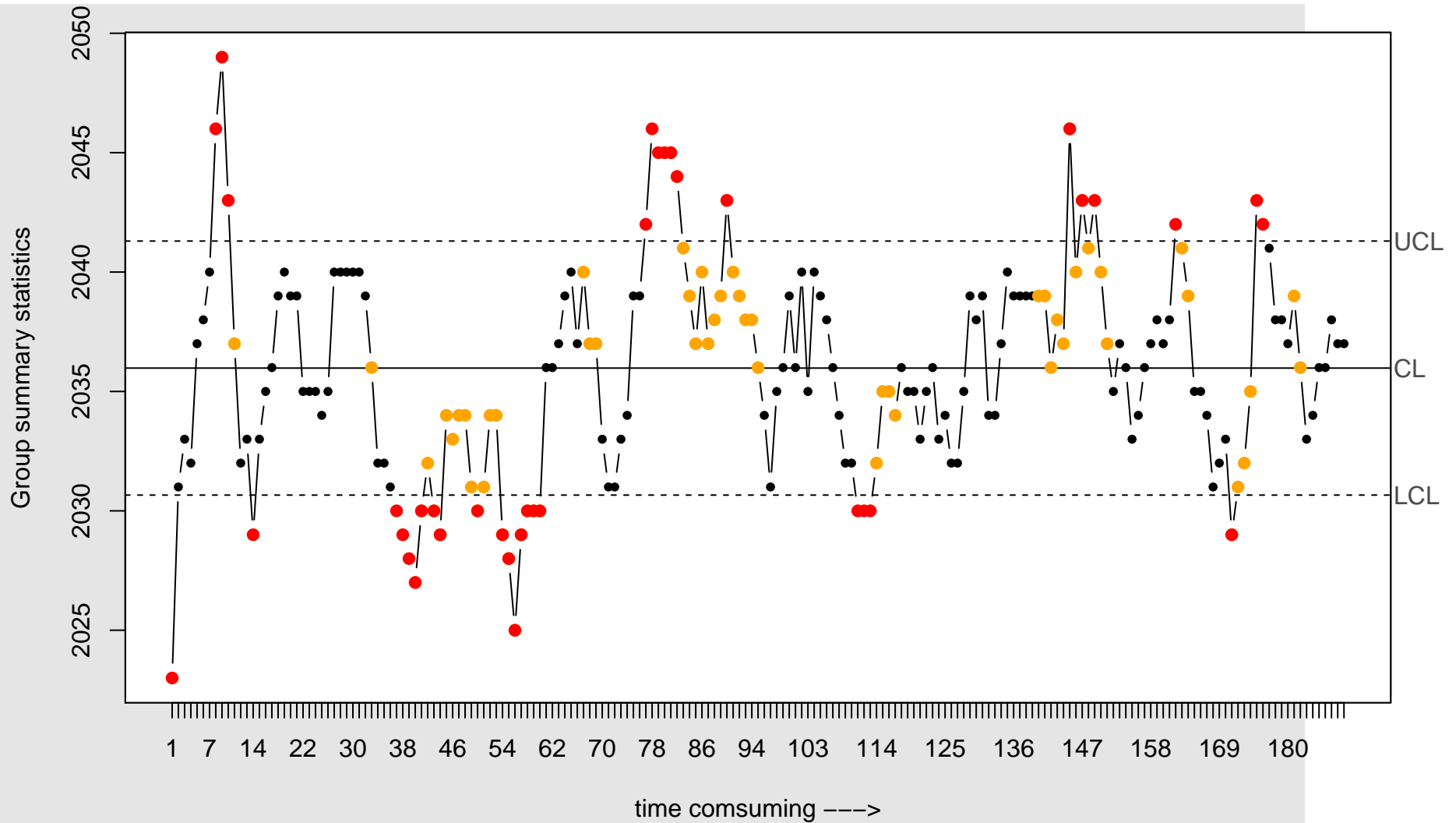


Number of groups = 189
 Center = 2035.989
 StdDev = 1.777765

LCL = 2030.656
 UCL = 2041.323

Number beyond limits = 31
 Number violating runs = 60

110th column point of this product

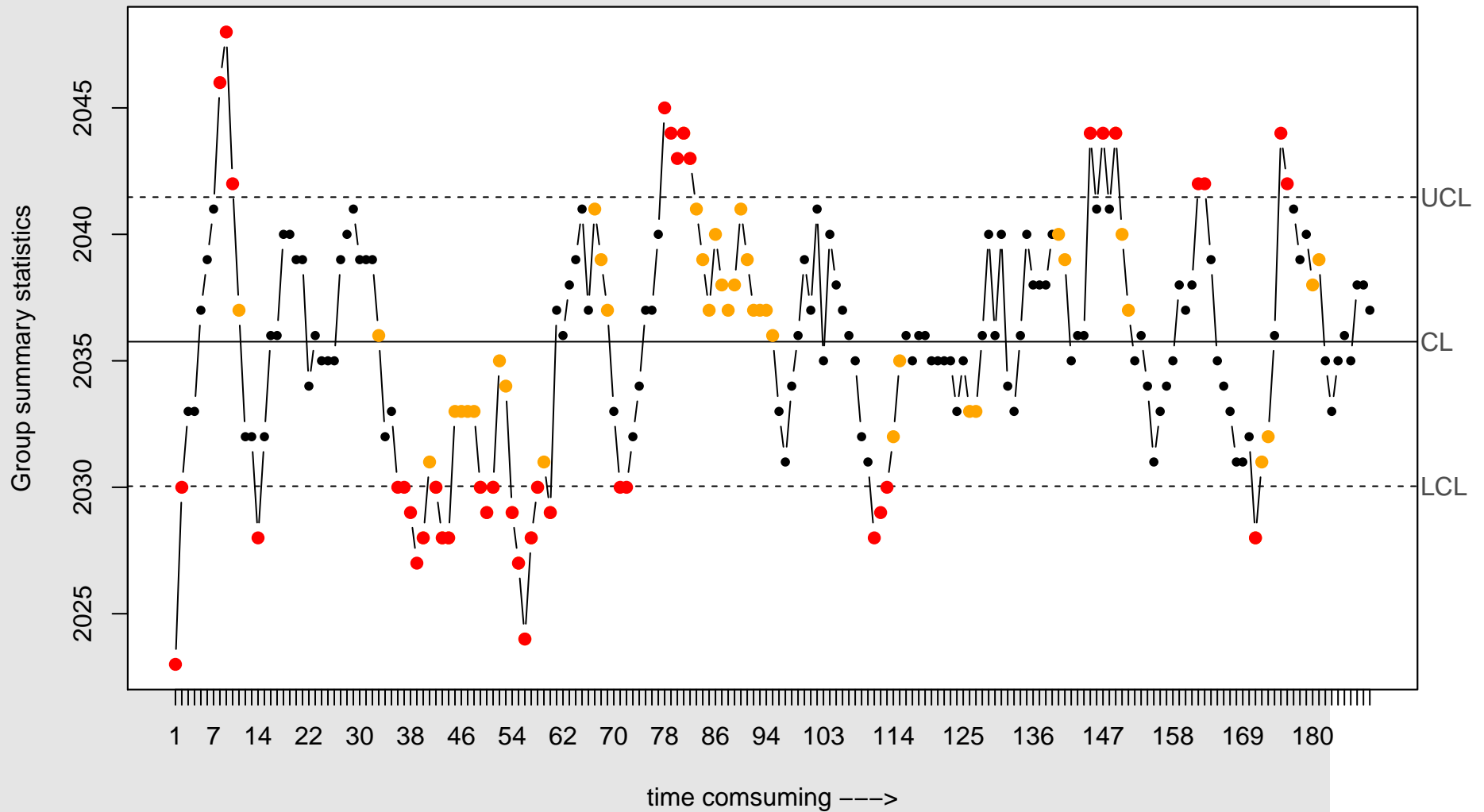


Number of groups = 189
 Center = 2035.979
 StdDev = 1.77305

LCL = 2030.66
 UCL = 2041.298

Number beyond limits = 37
 Number violating runs = 65

111th column point of this product



Number of groups = 189

Center = 2035.757

StdDev = 1.905085

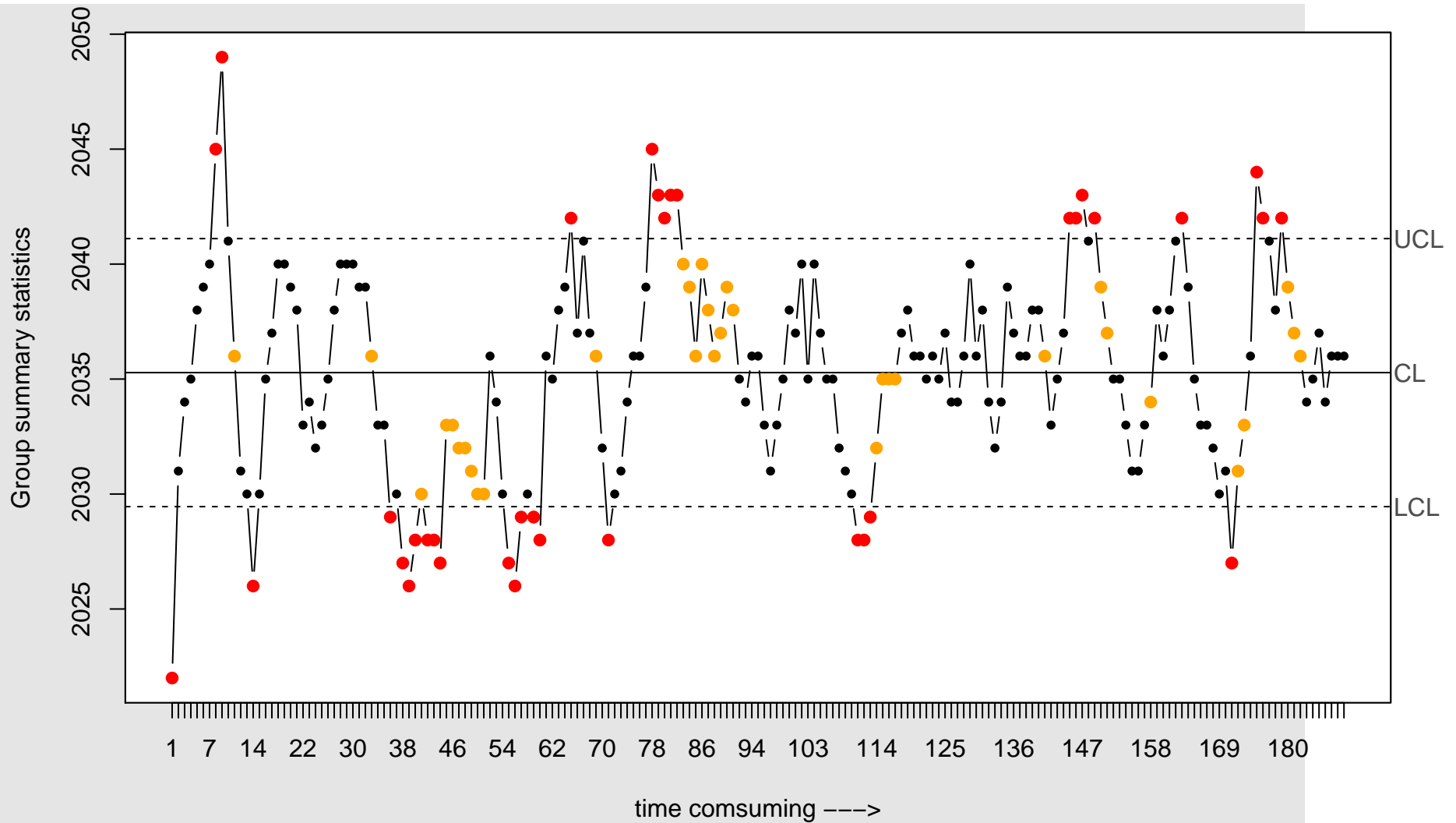
LCL = 2030.041

UCL = 2041.472

Number beyond limits = 41

Number violating runs = 55

112th column point of this product

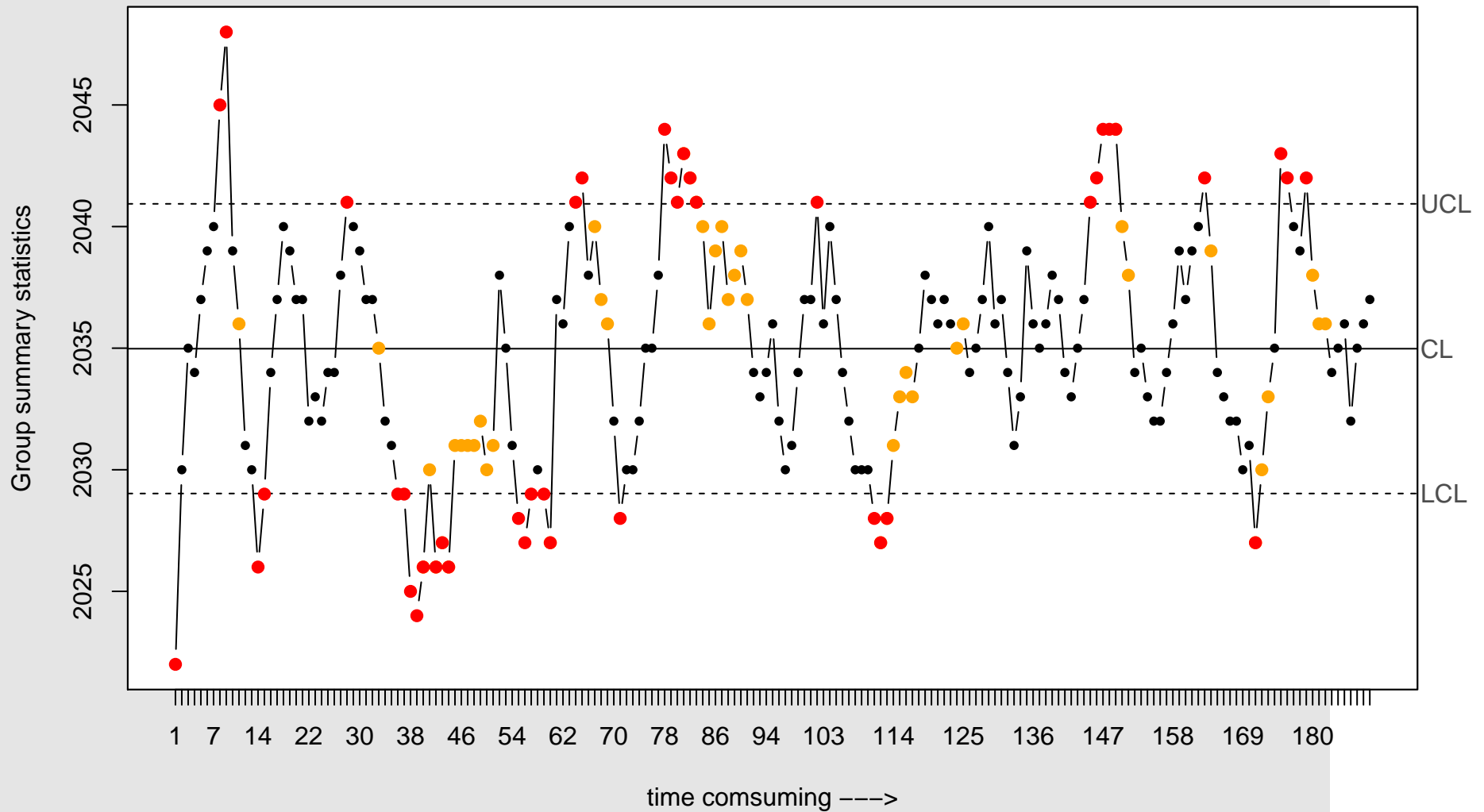


Number of groups = 189
 Center = 2035.28
 StdDev = 1.94281

LCL = 2029.452
 UCL = 2041.109

Number beyond limits = 35
 Number violating runs = 44

113th column point of this product

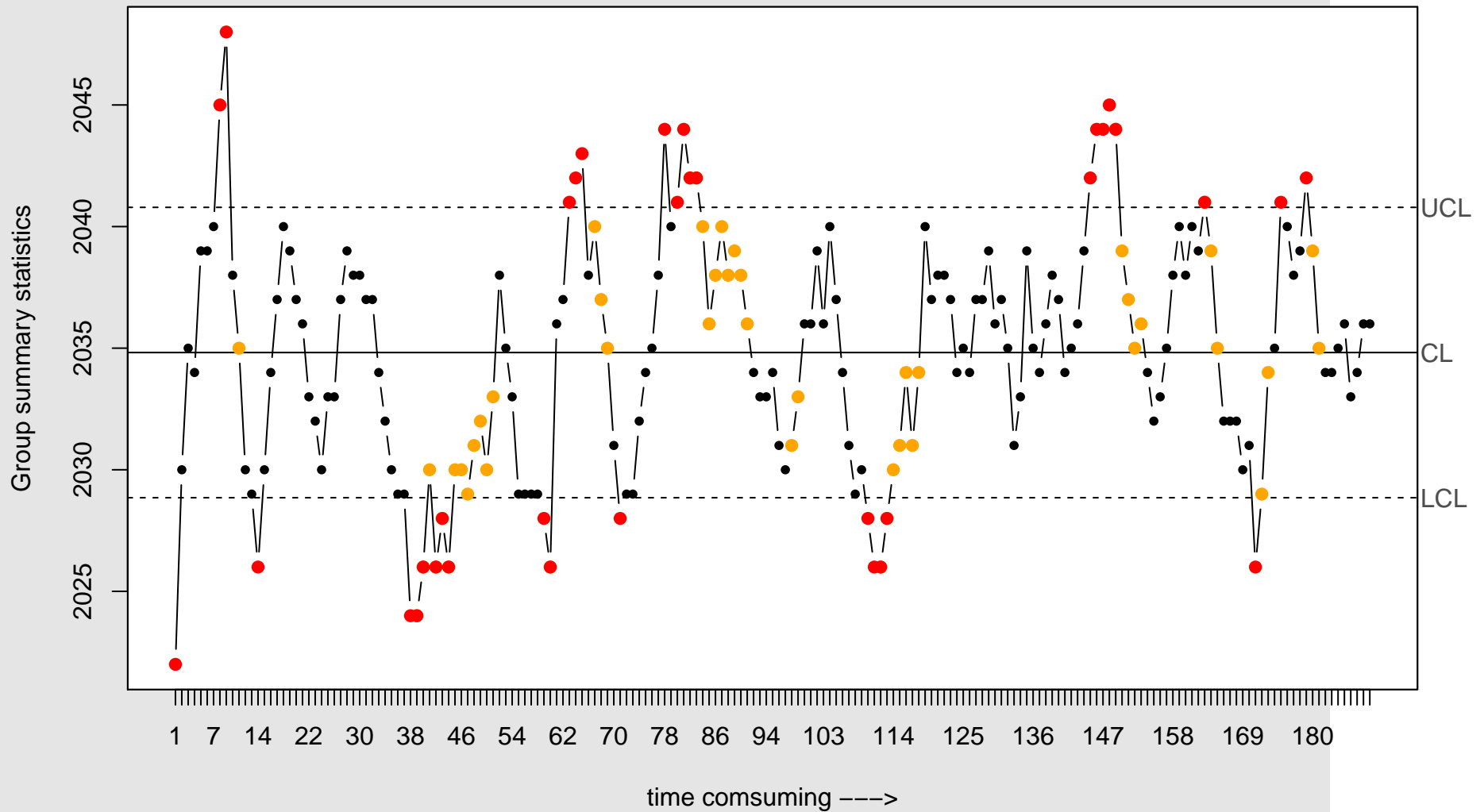


Number of groups = 189
Center = 2034.979
StdDev = 1.98525

LCL = 2029.023
UCL = 2040.935

Number beyond limits = 42
Number violating runs = 47

114th column point of this product

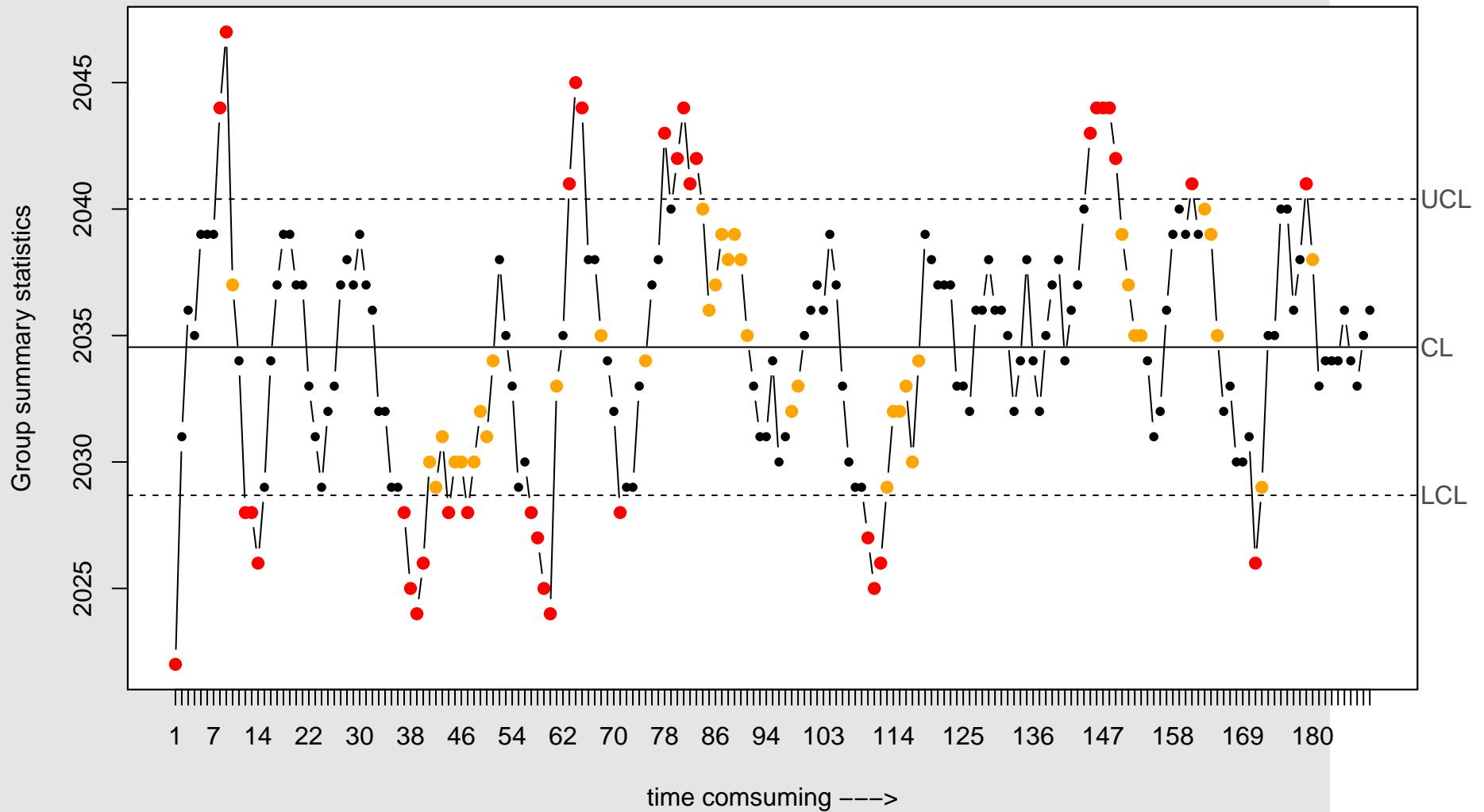


Number of groups = 189
 Center = 2034.82
 StdDev = 1.989965

LCL = 2028.85
 UCL = 2040.79

Number beyond limits = 34
 Number violating runs = 50

115th column point of this product



Number of groups = 189

Center = 2034.54

StdDev = 1.952241

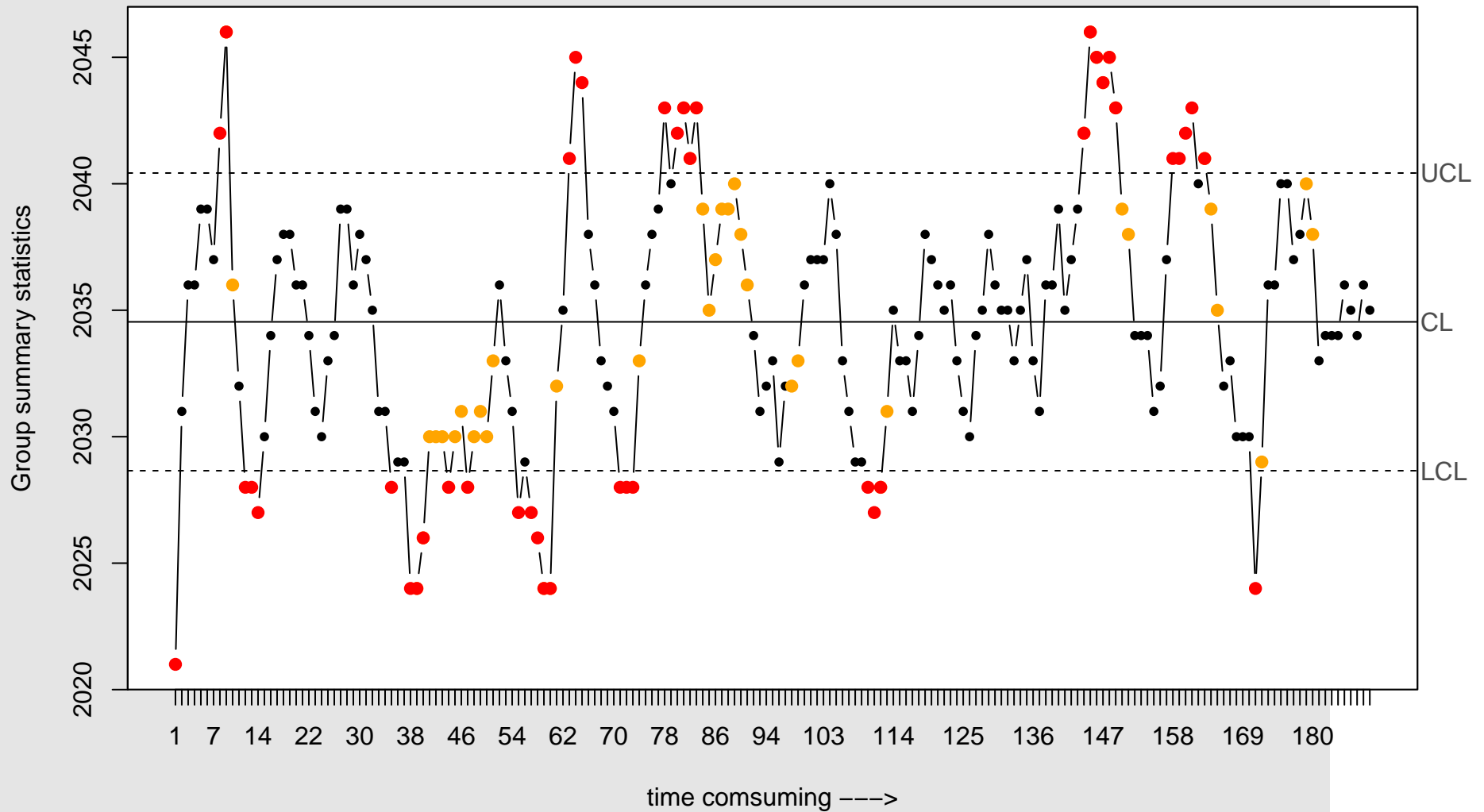
LCL = 2028.683

UCL = 2040.396

Number beyond limits = 36

Number violating runs = 50

116th column point of this product

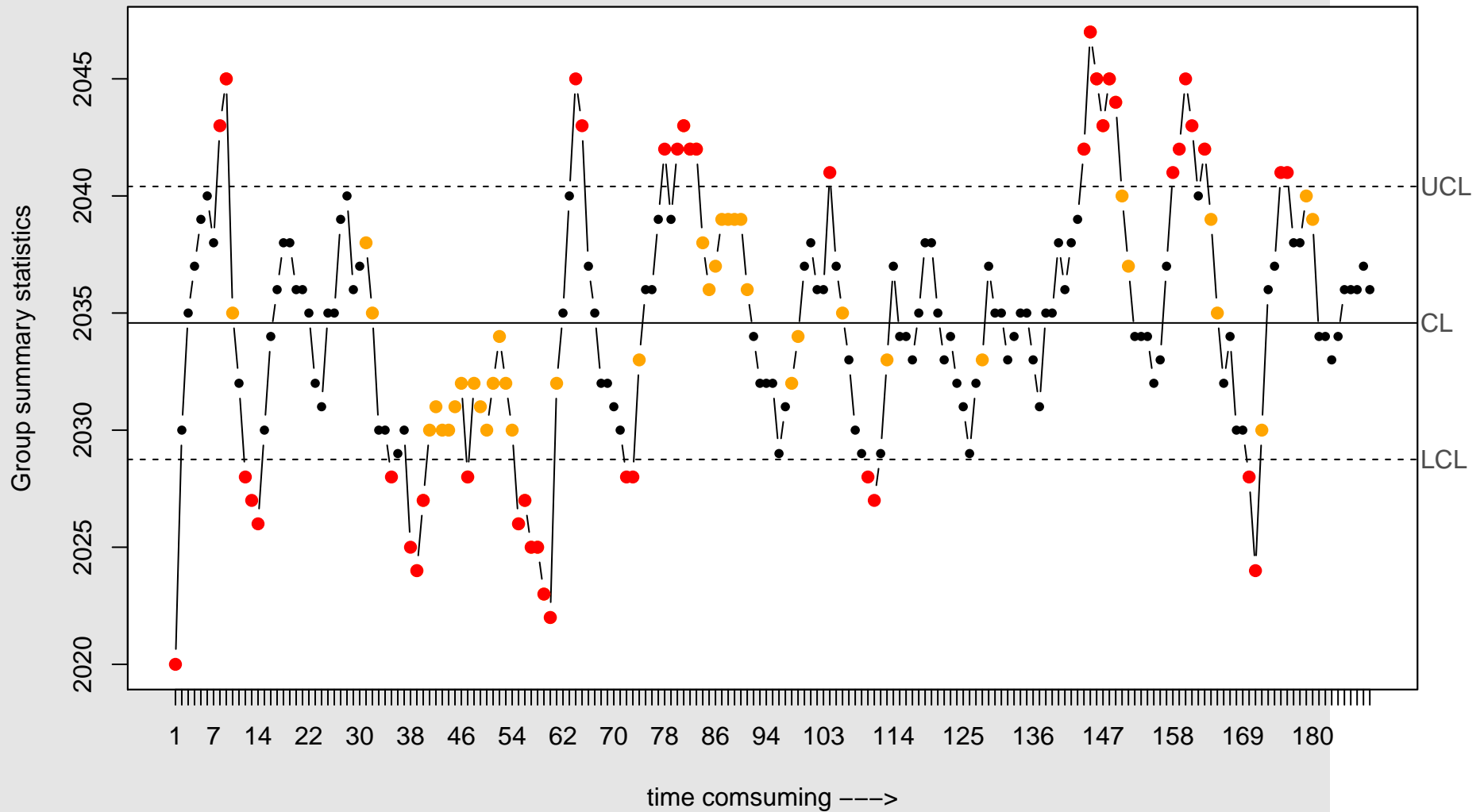


Number of groups = 189
Center = 2034.54
StdDev = 1.961672

LCL = 2028.655
UCL = 2040.425

Number beyond limits = 43
Number violating runs = 48

117th column point of this product

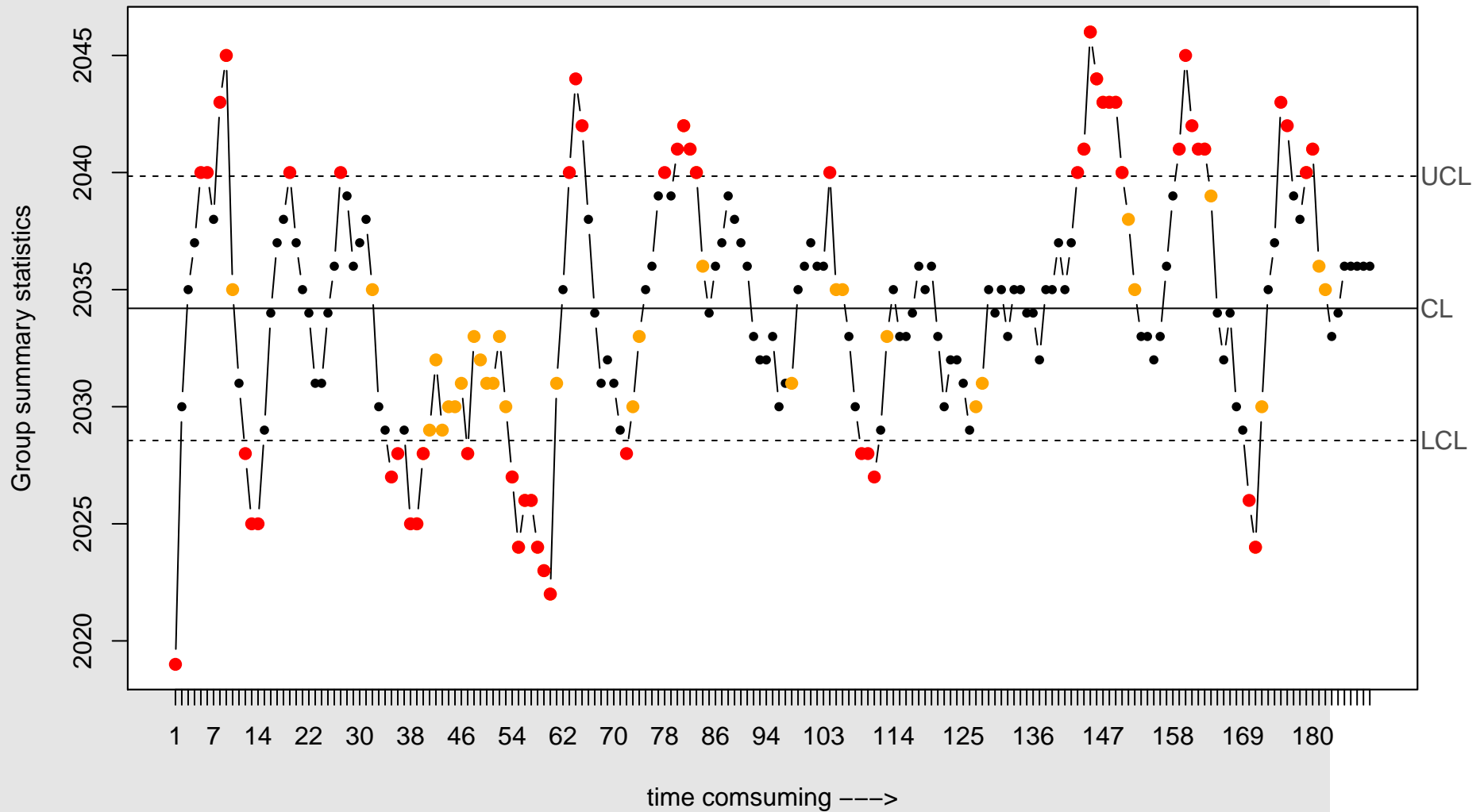


Number of groups = 189
Center = 2034.577
StdDev = 1.94281

LCL = 2028.748
UCL = 2040.405

Number beyond limits = 44
Number violating runs = 58

118th column point of this product

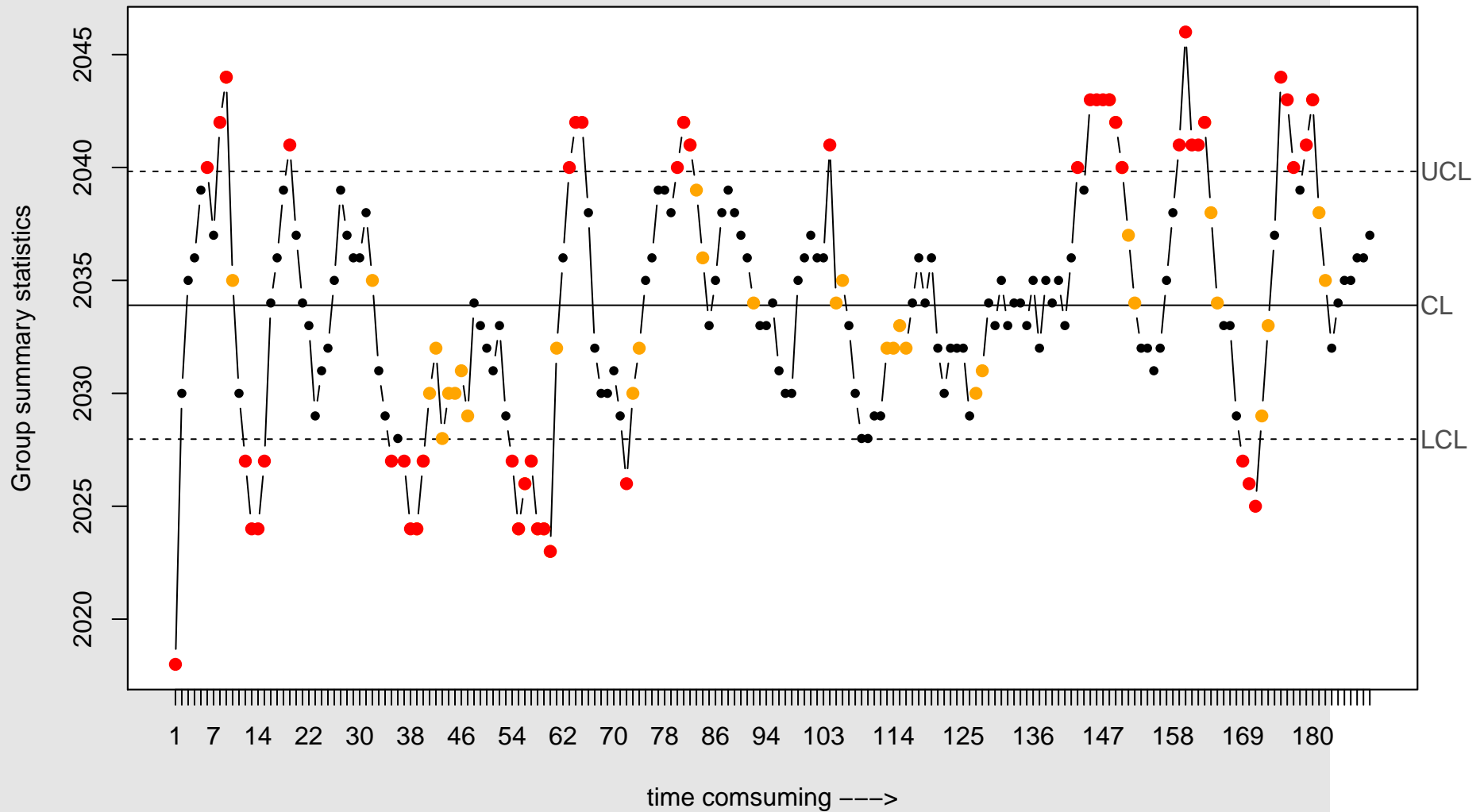


Number of groups = 189
 Center = 2034.201
 StdDev = 1.881507

LCL = 2028.557
 UCL = 2039.846

Number beyond limits = 55
 Number violating runs = 55

119th column point of this product



Number of groups = 189

Center = 2033.899

StdDev = 1.975819

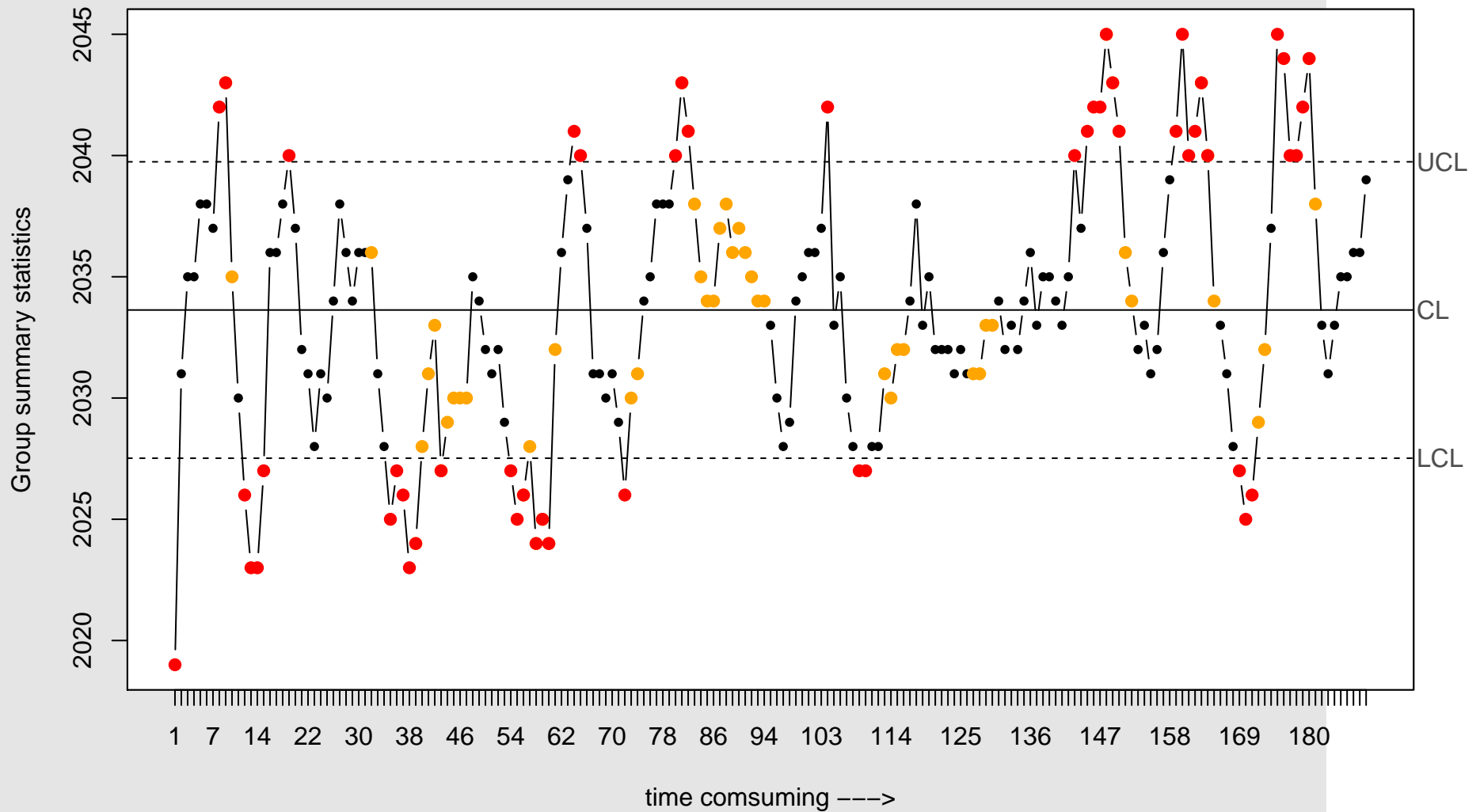
LCL = 2027.972

UCL = 2039.827

Number beyond limits = 49

Number violating runs = 47

120th column point of this product

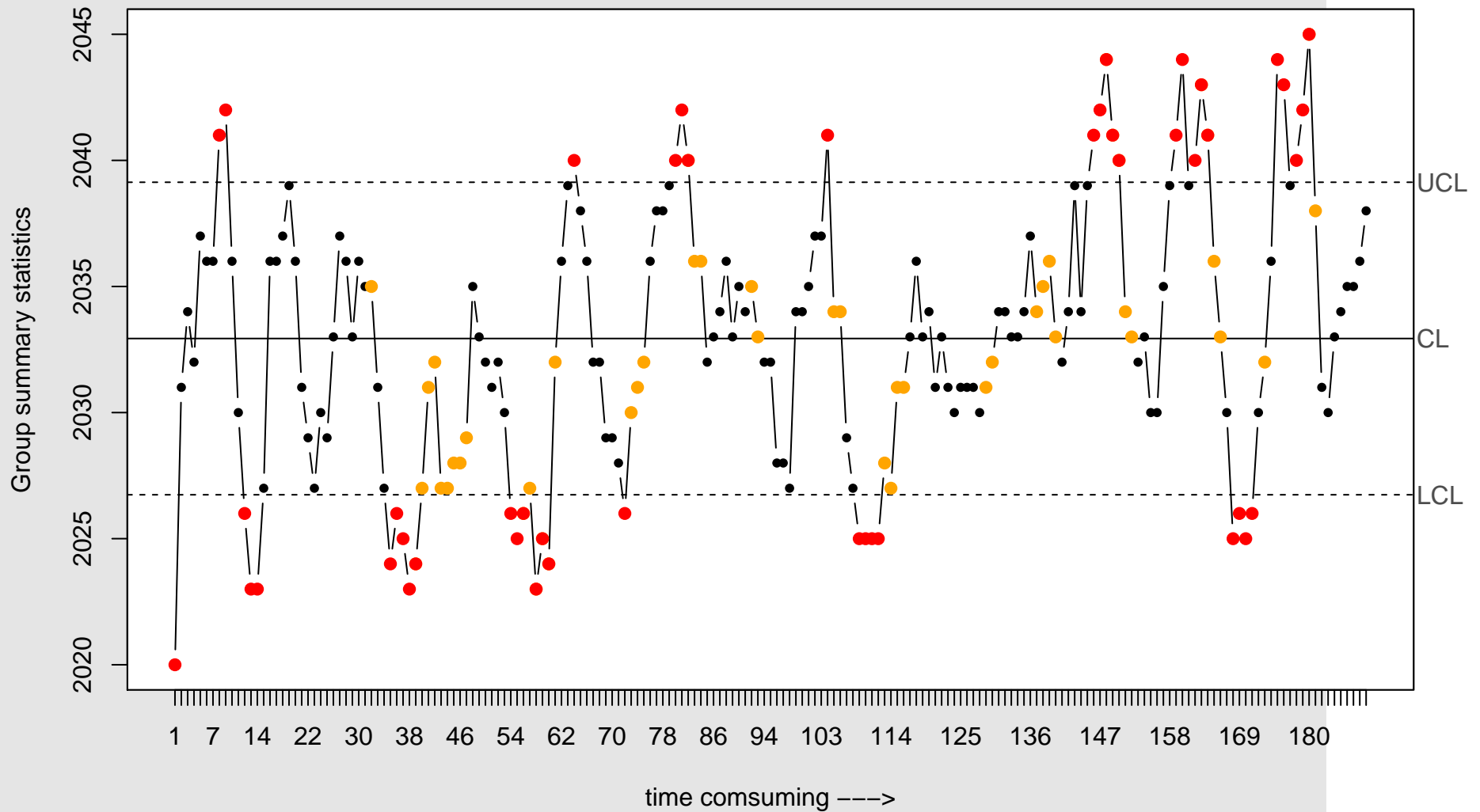


Number of groups = 189
Center = 2033.63
StdDev = 2.037121

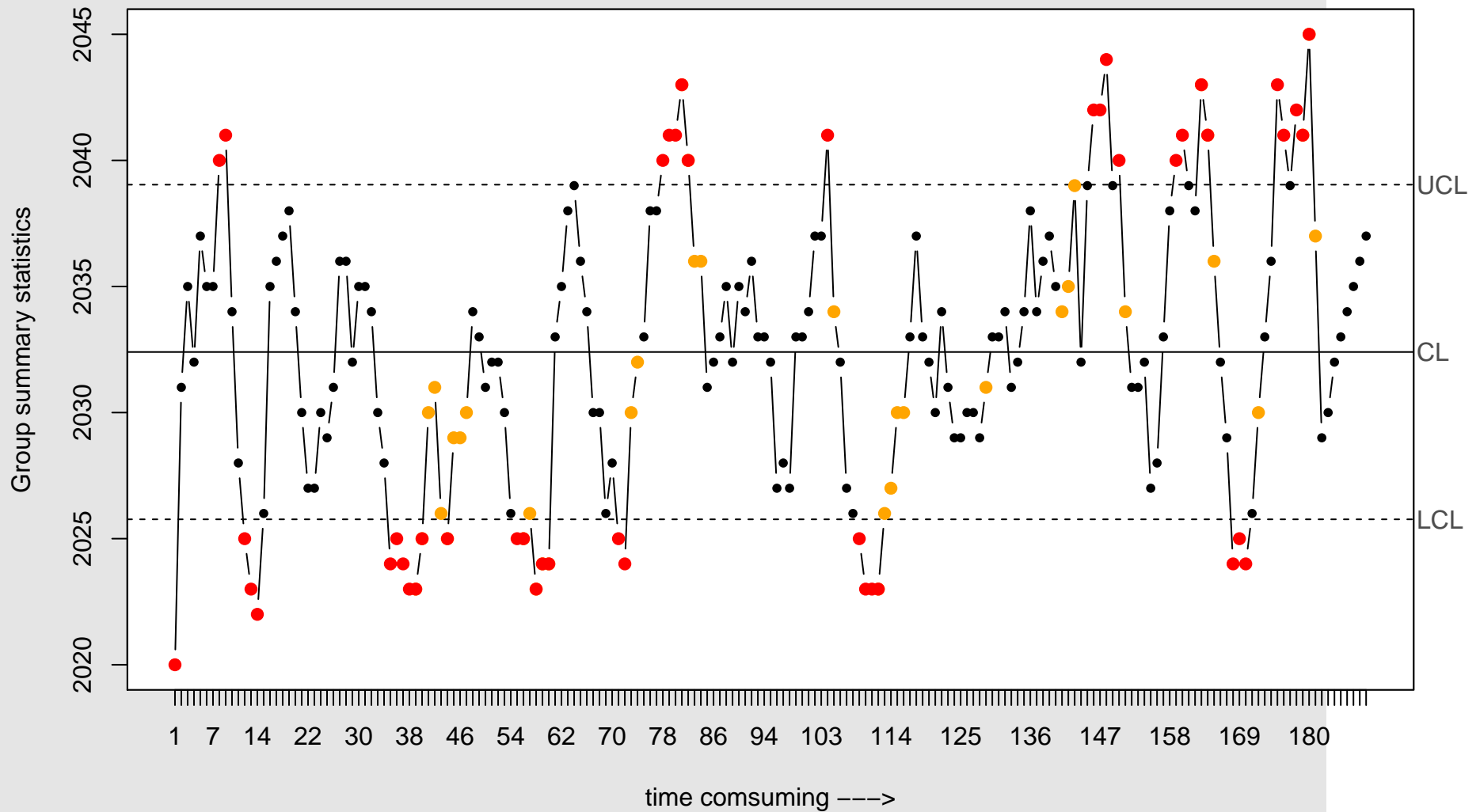
LCL = 2027.518
UCL = 2039.741

Number beyond limits = 51
Number violating runs = 54

121th column point of this product



122th column point of this product

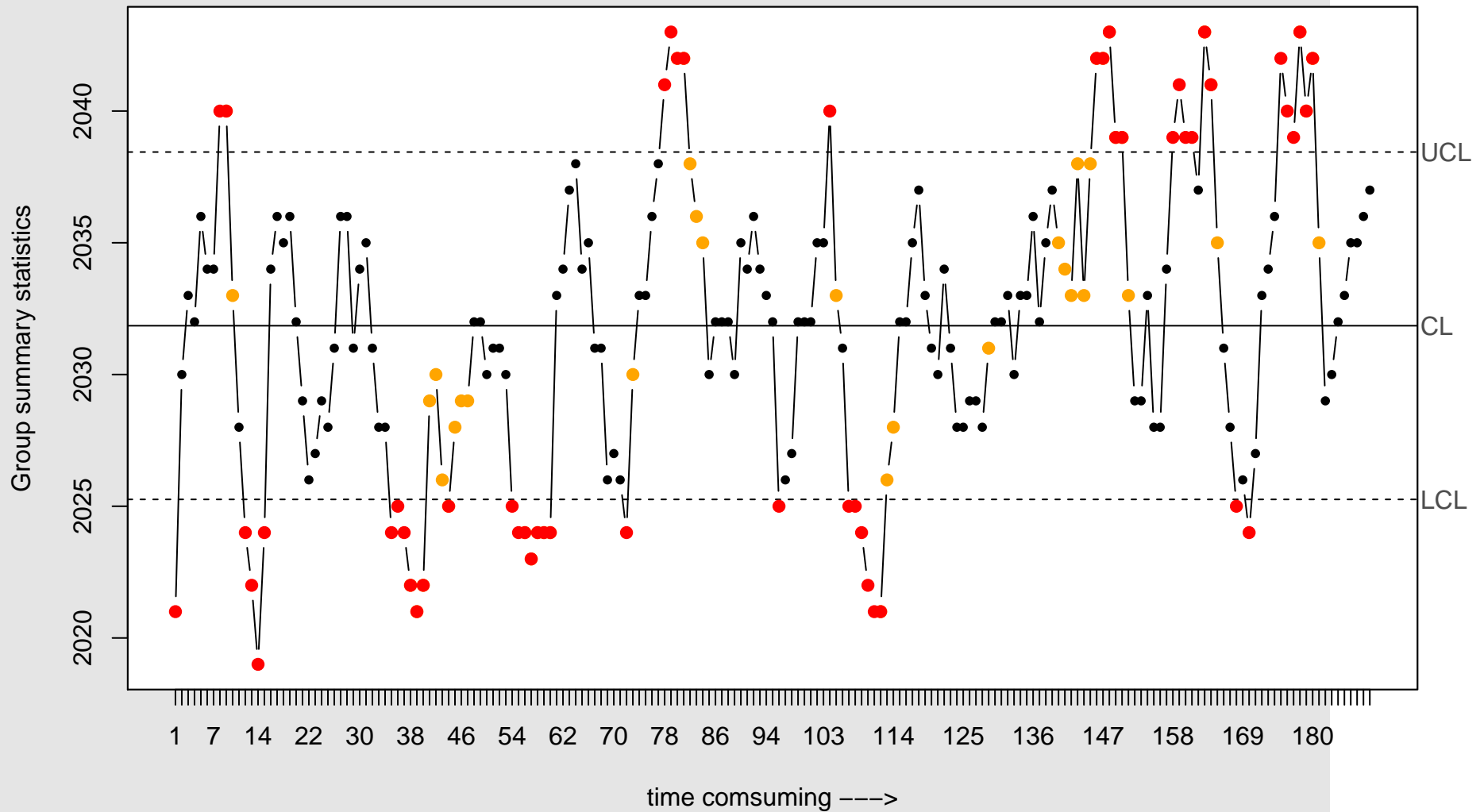


Number of groups = 189
 Center = 2032.402
 StdDev = 2.211596

LCL = 2025.767
 UCL = 2039.037

Number beyond limits = 46
 Number violating runs = 38

123th column point of this product

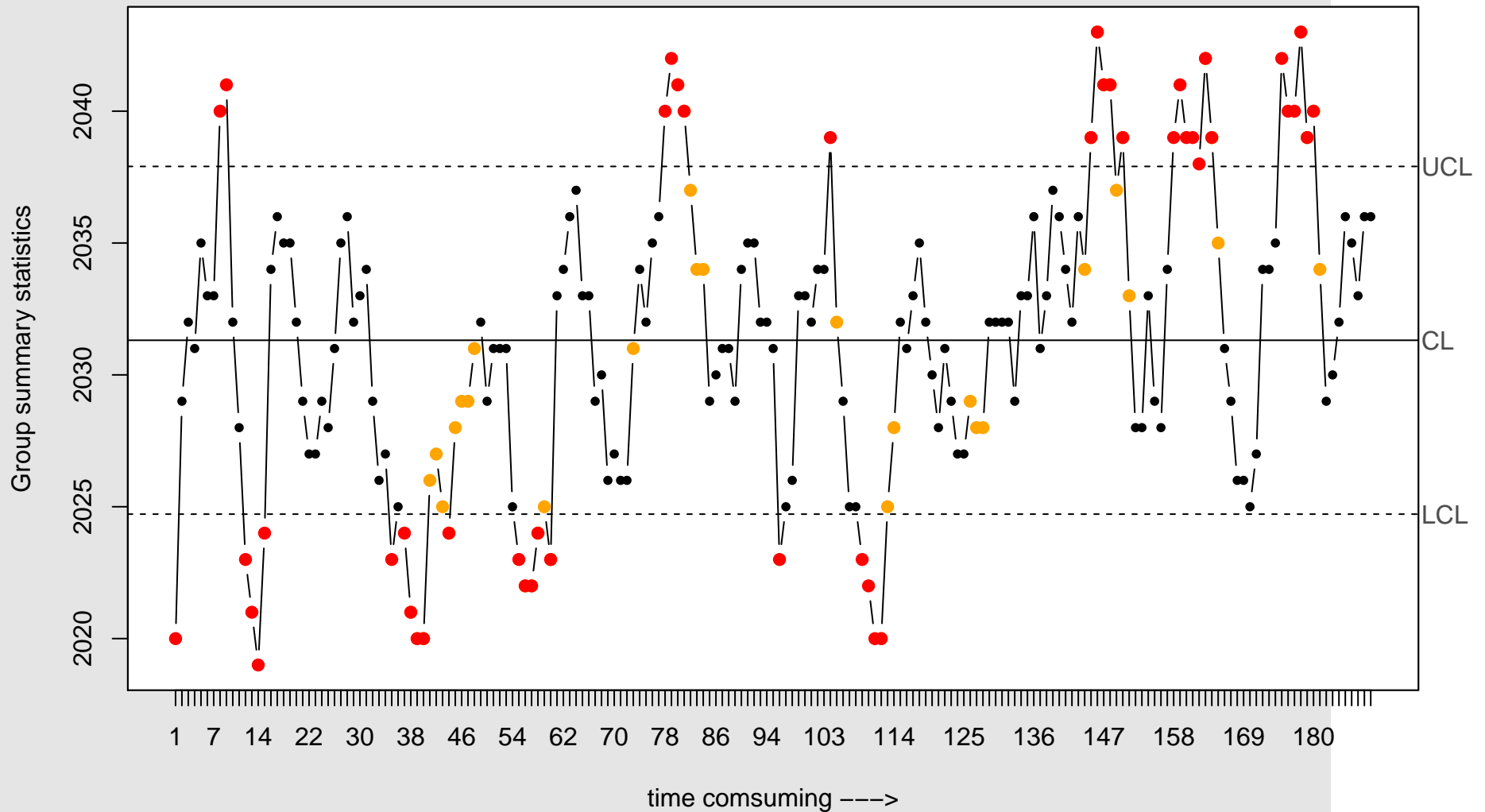


Number of groups = 189
Center = 2031.852
StdDev = 2.19745

LCL = 2025.26
UCL = 2038.444

Number beyond limits = 53
Number violating runs = 47

124th column point of this product

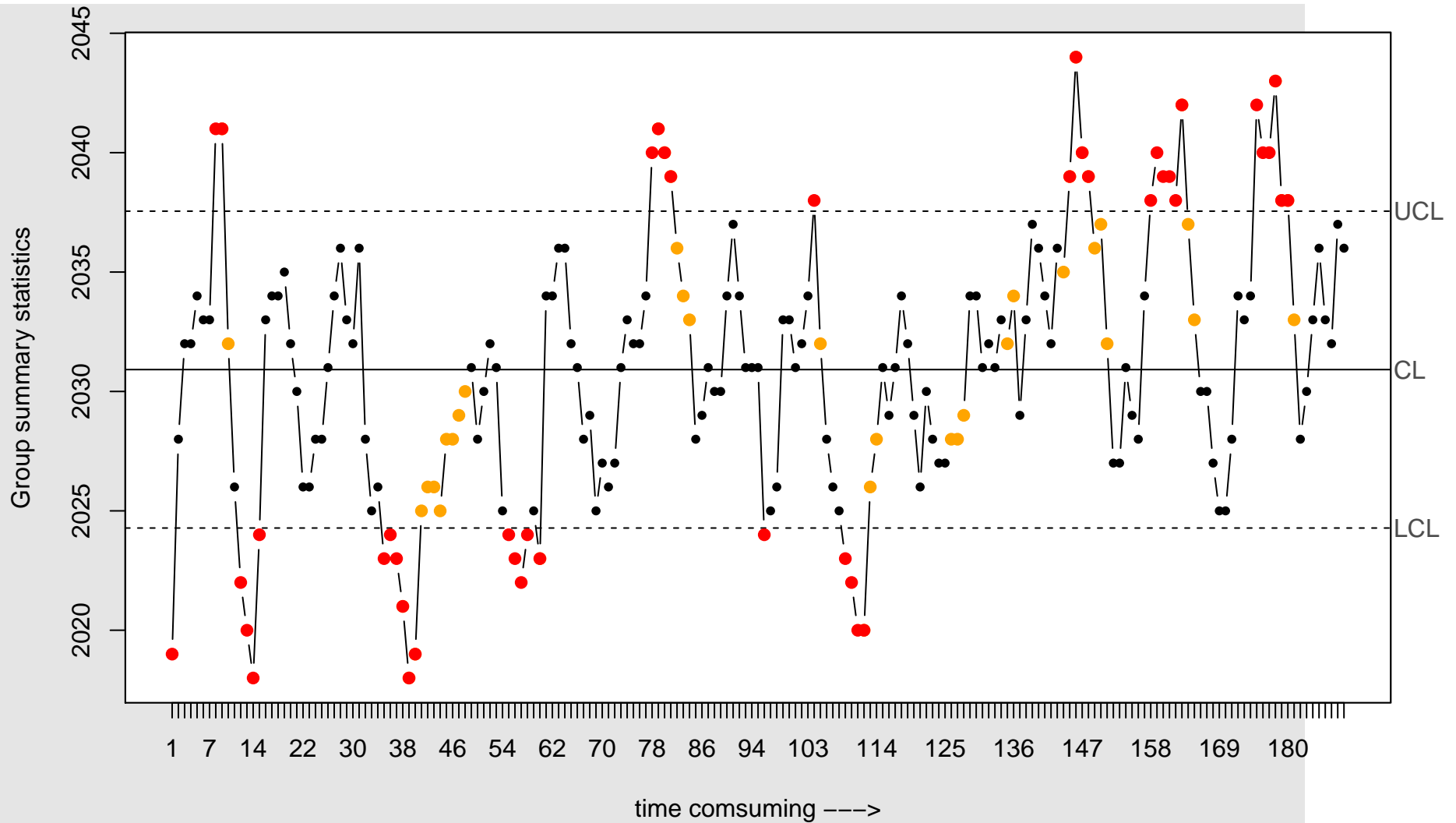


Number of groups = 189
Center = 2031.312
StdDev = 2.19745

LCL = 2024.72
UCL = 2037.905

Number beyond limits = 46
Number violating runs = 44

125th column point of this product

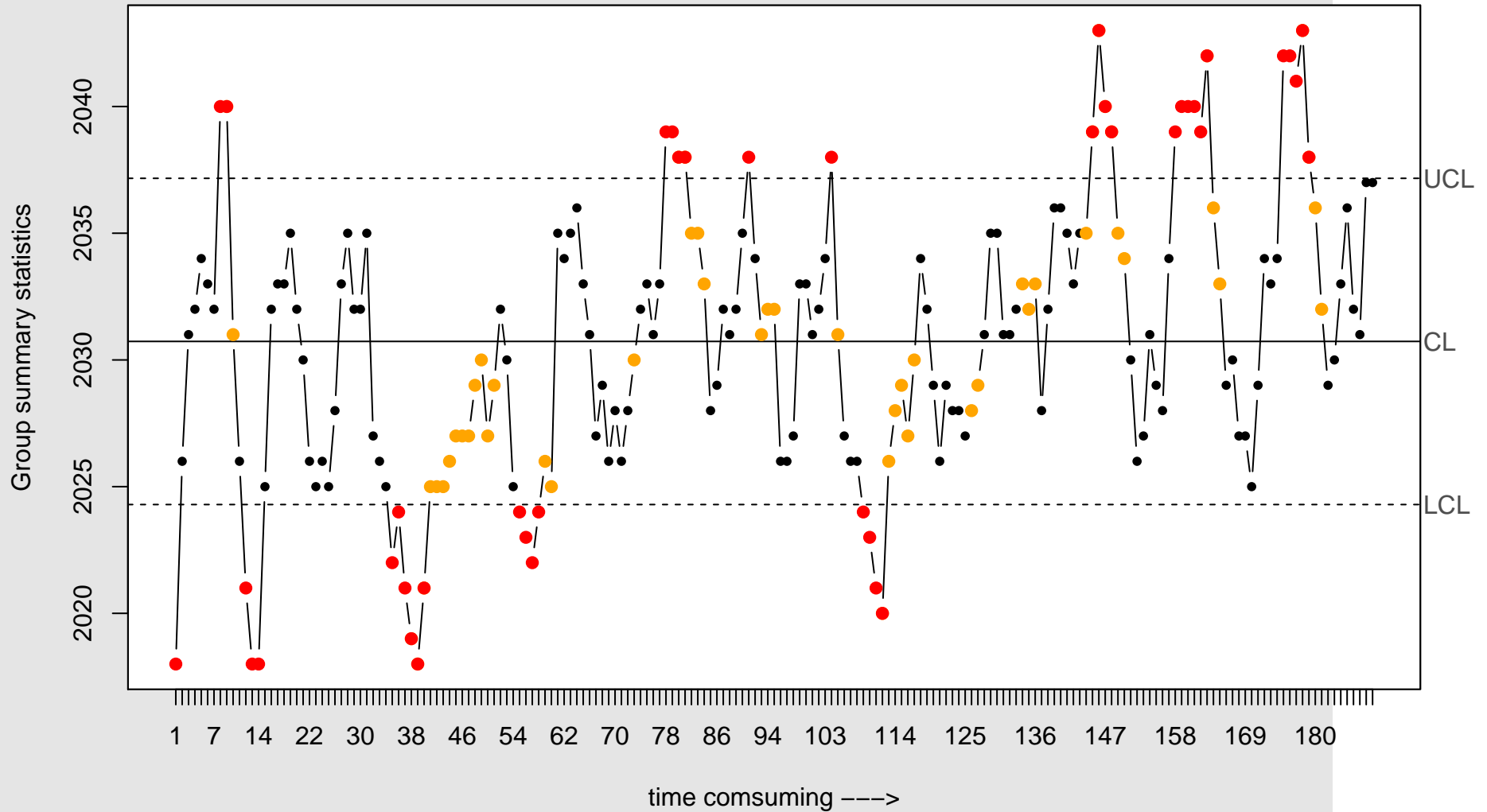


Number of groups = 189
 Center = 2030.915
 StdDev = 2.211596

LCL = 2024.281
 UCL = 2037.55

Number beyond limits = 44
 Number violating runs = 44

126th column point of this product



Number of groups = 189

Center = 2030.73

StdDev = 2.145579

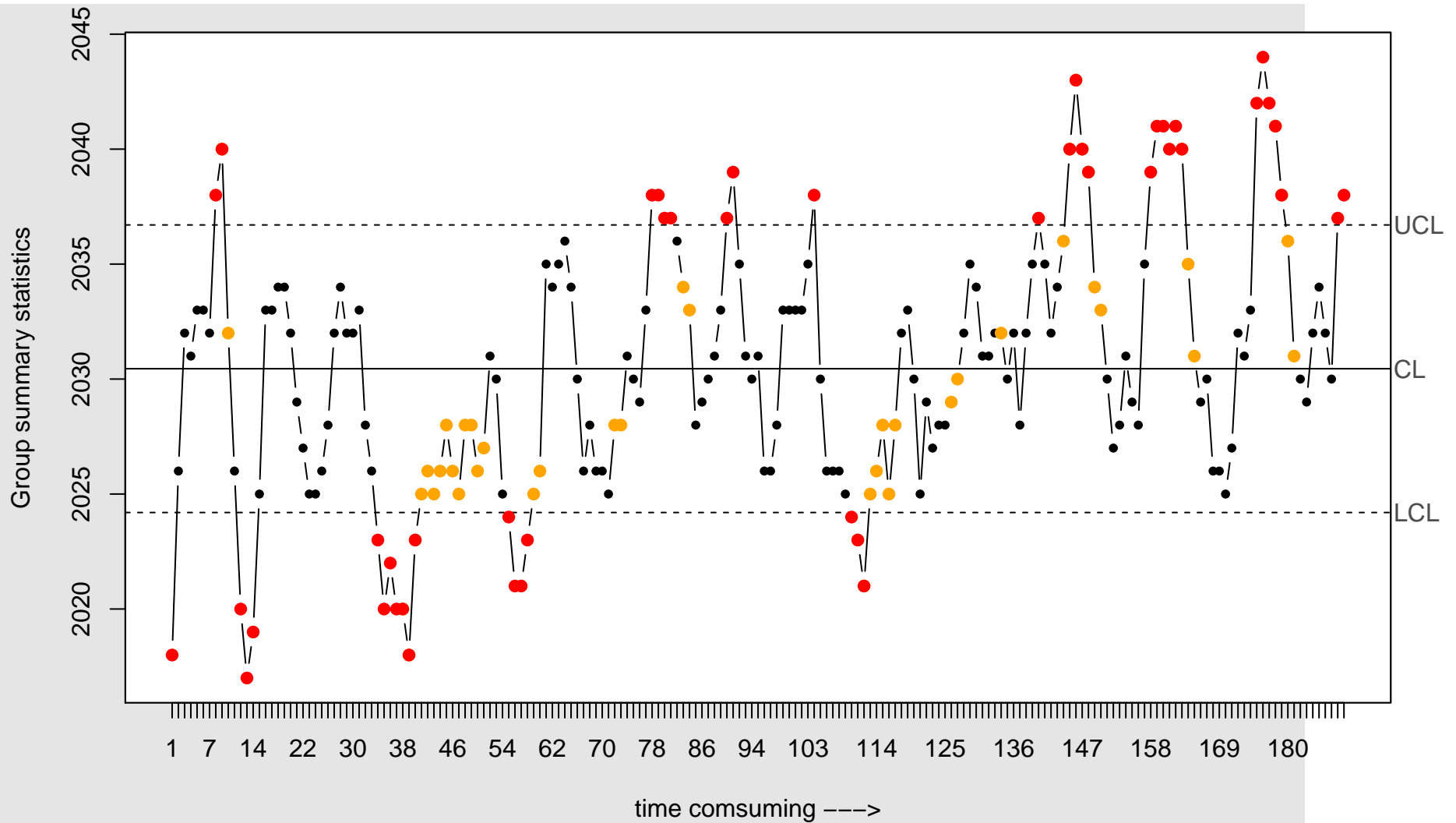
LCL = 2024.293

UCL = 2037.167

Number beyond limits = 41

Number violating runs = 53

127th column point of this product



Number of groups = 189

Center = 2030.45

StdDev = 2.084276

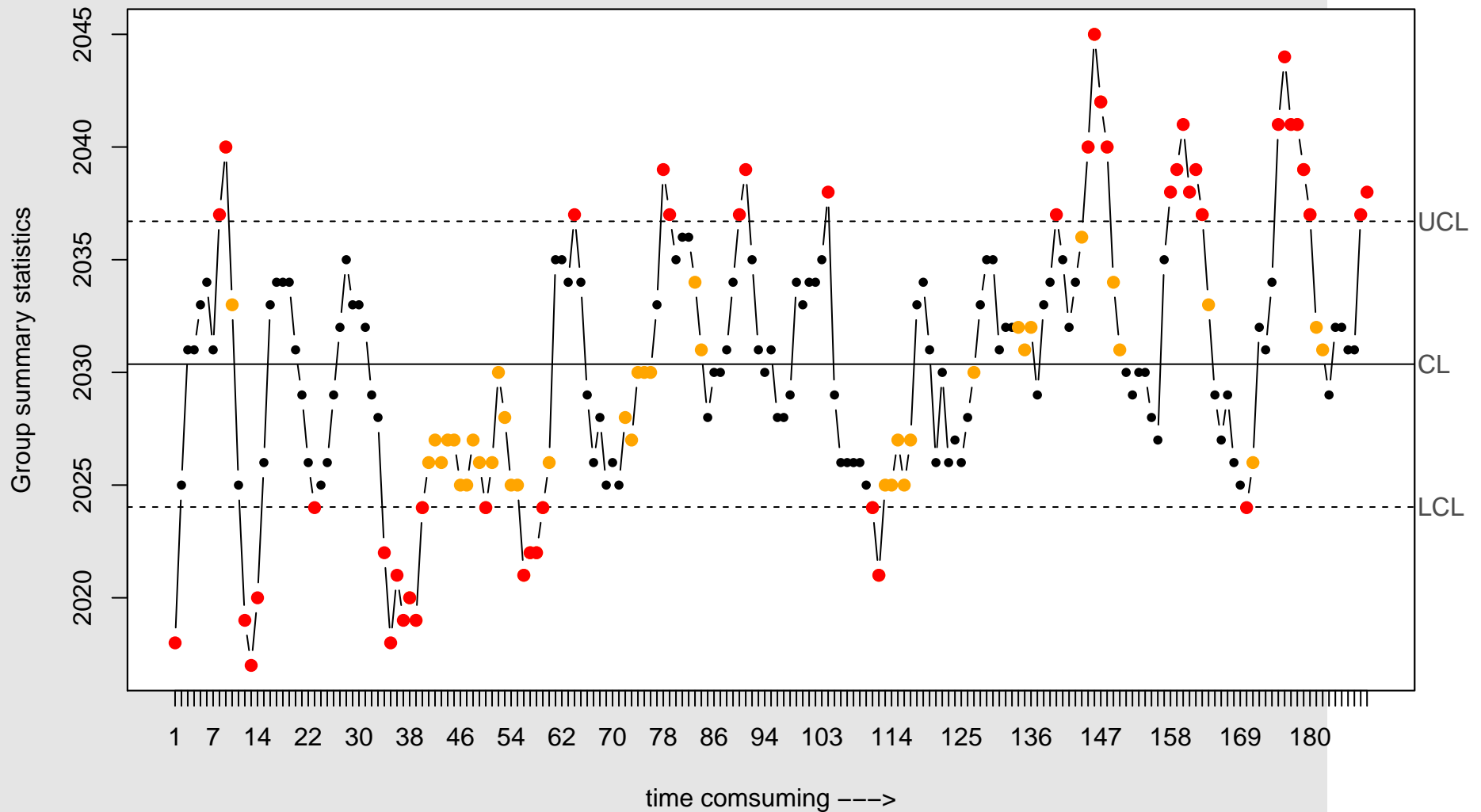
LCL = 2024.197

UCL = 2036.703

Number beyond limits = 45

Number violating runs = 46

128th column point of this product

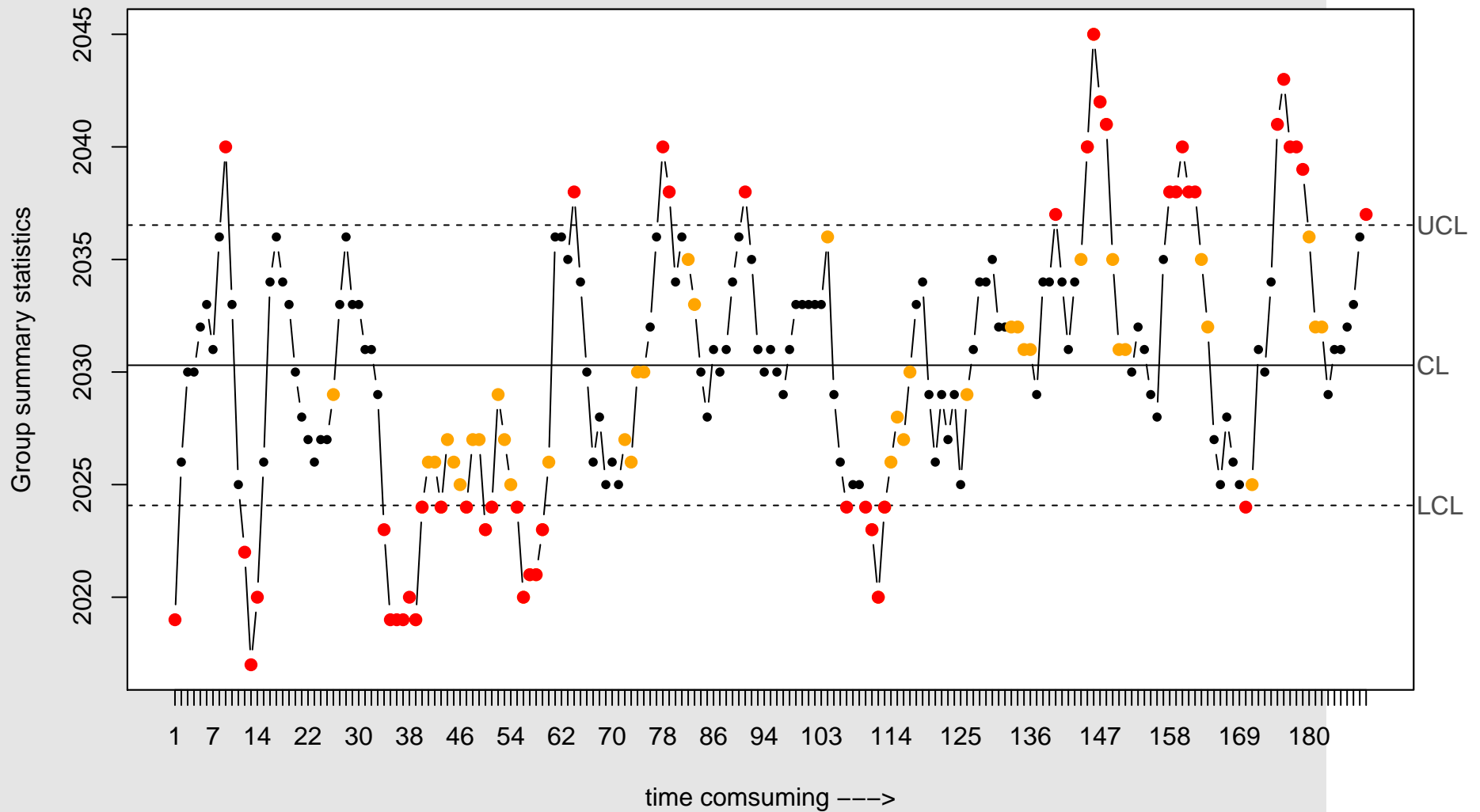


Number of groups = 189
 Center = 2030.365
 StdDev = 2.11257

LCL = 2024.027
 UCL = 2036.703

Number beyond limits = 47
 Number violating runs = 58

129th column point of this product

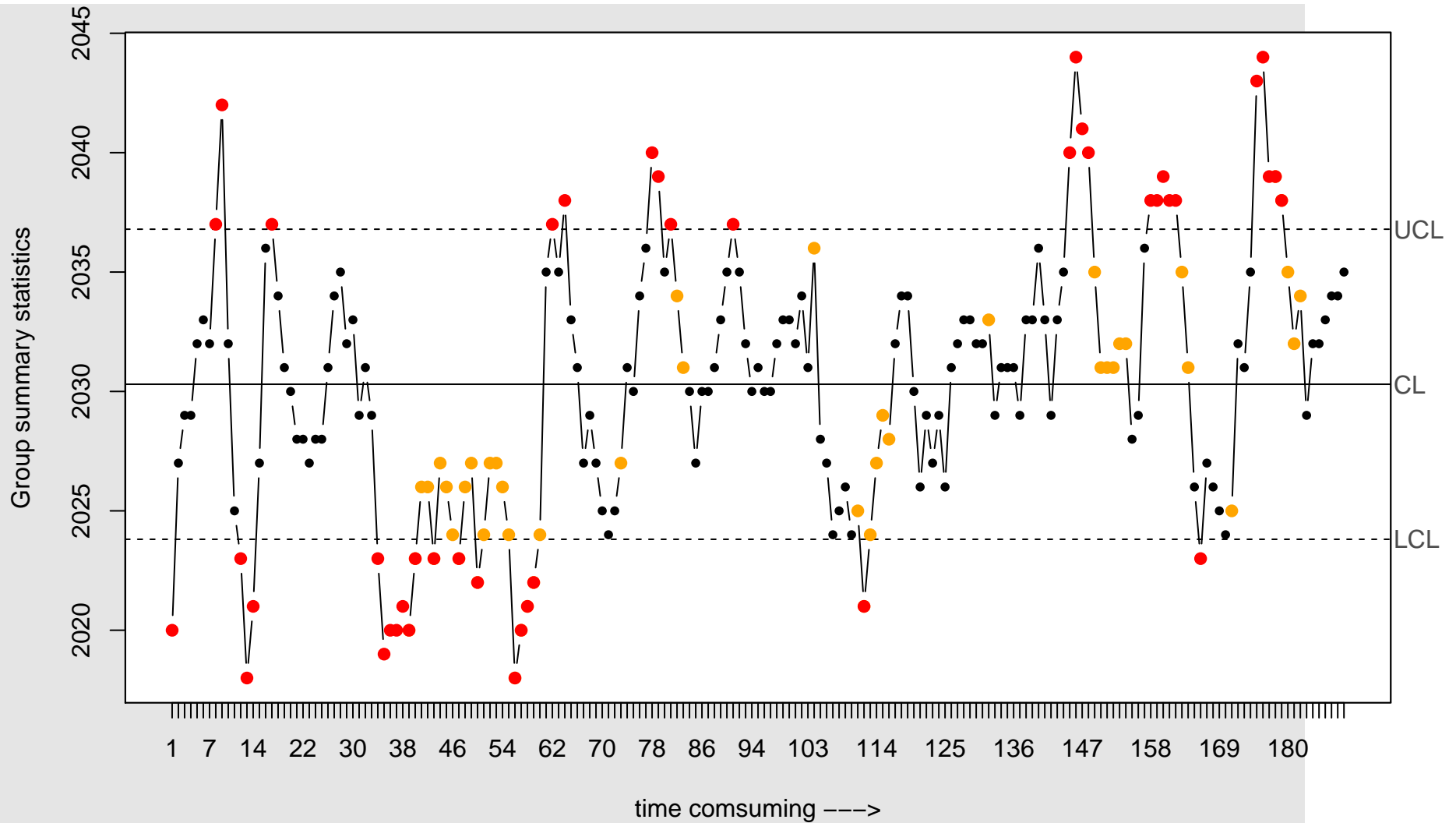


Number of groups = 189
 Center = 2030.302
 StdDev = 2.074845

LCL = 2024.077
 UCL = 2036.526

Number beyond limits = 47
 Number violating runs = 56

130th column point of this product

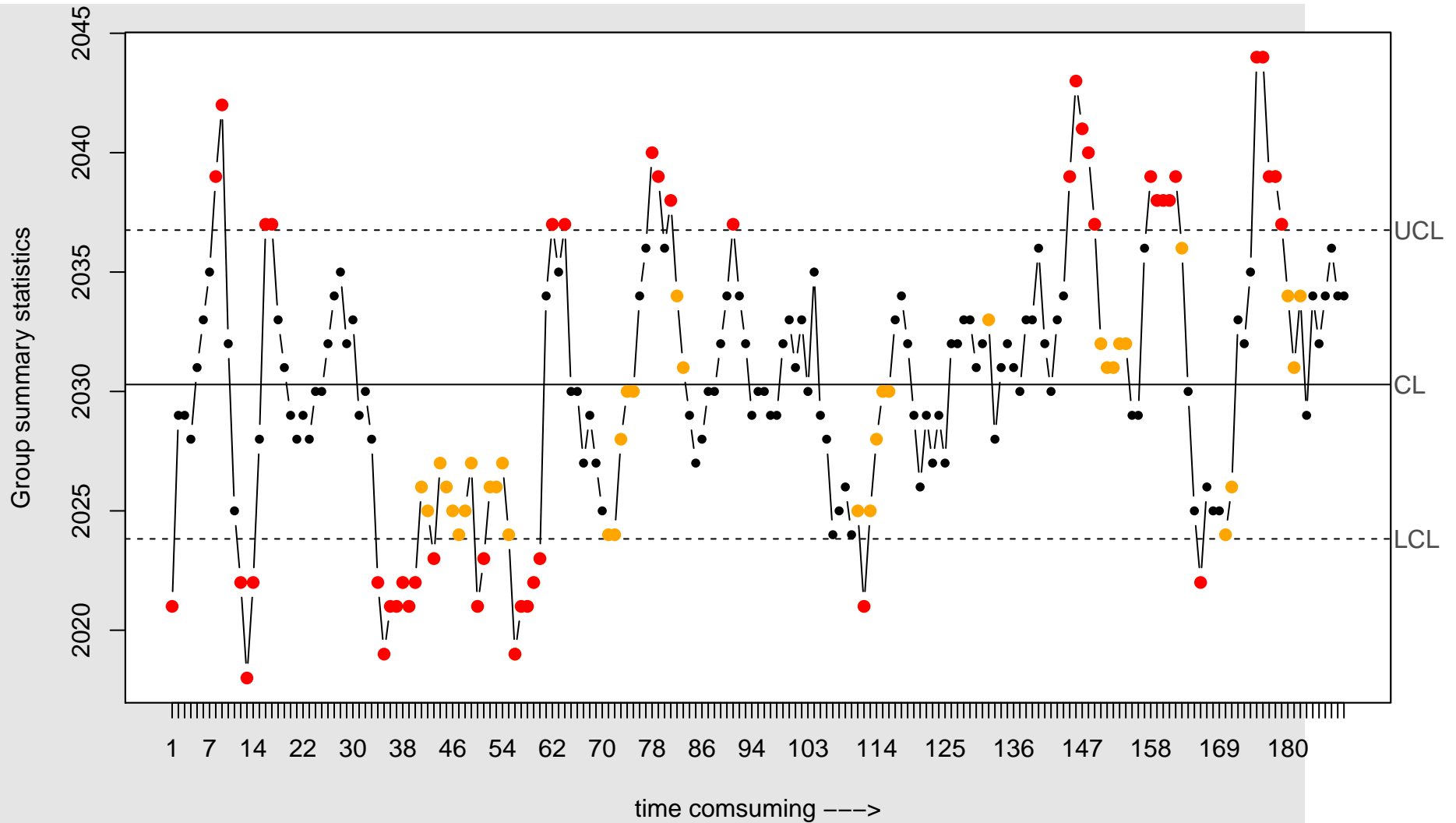


Number of groups = 189
 Center = 2030.302
 StdDev = 2.164441

LCL = 2023.808
 UCL = 2036.795

Number beyond limits = 43
 Number violating runs = 47

131th column point of this product

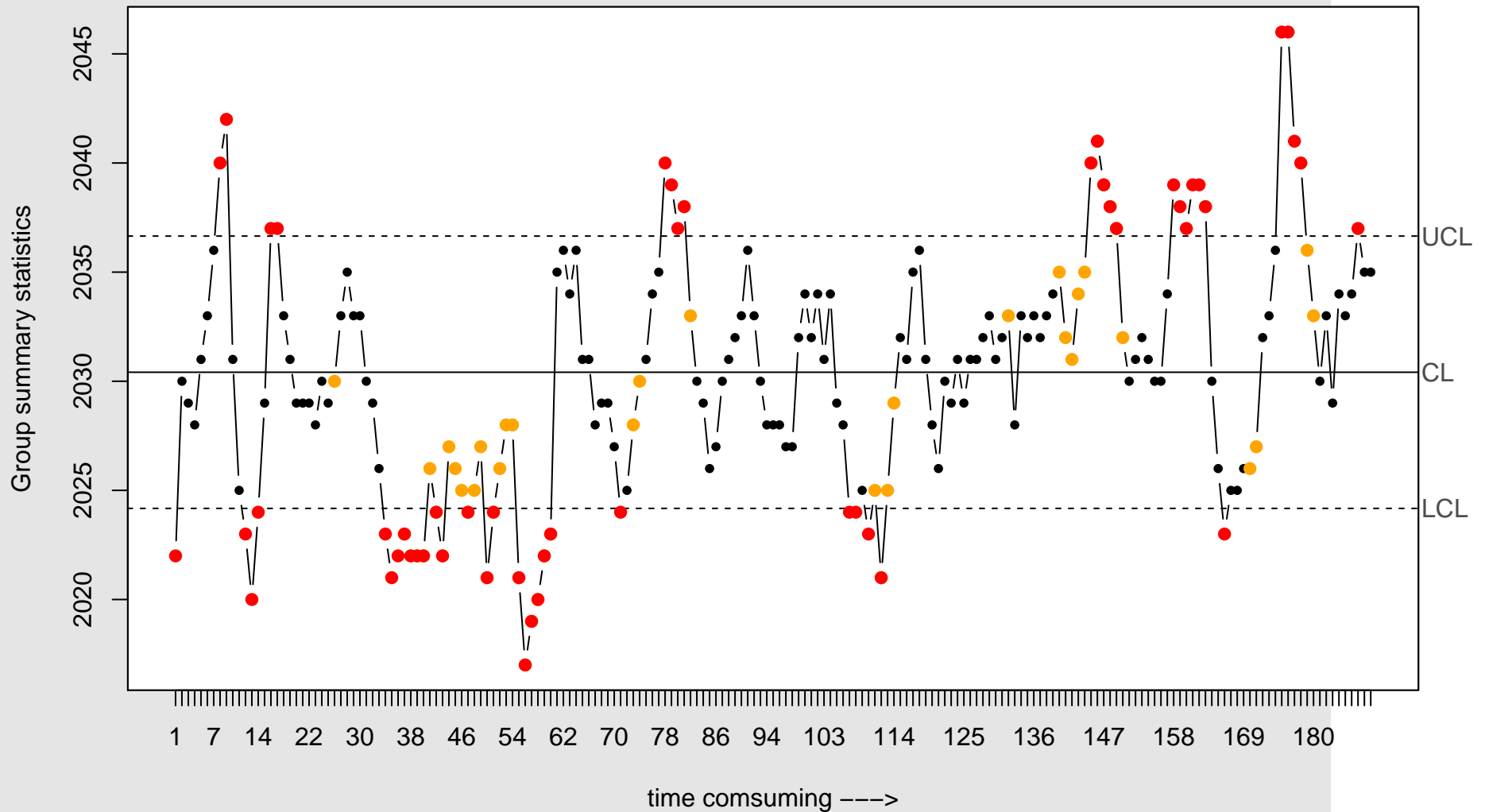


Number of groups = 189
Center = 2030.291
StdDev = 2.15501

LCL = 2023.826
UCL = 2036.756

Number beyond limits = 46
Number violating runs = 52

132th column point of this product

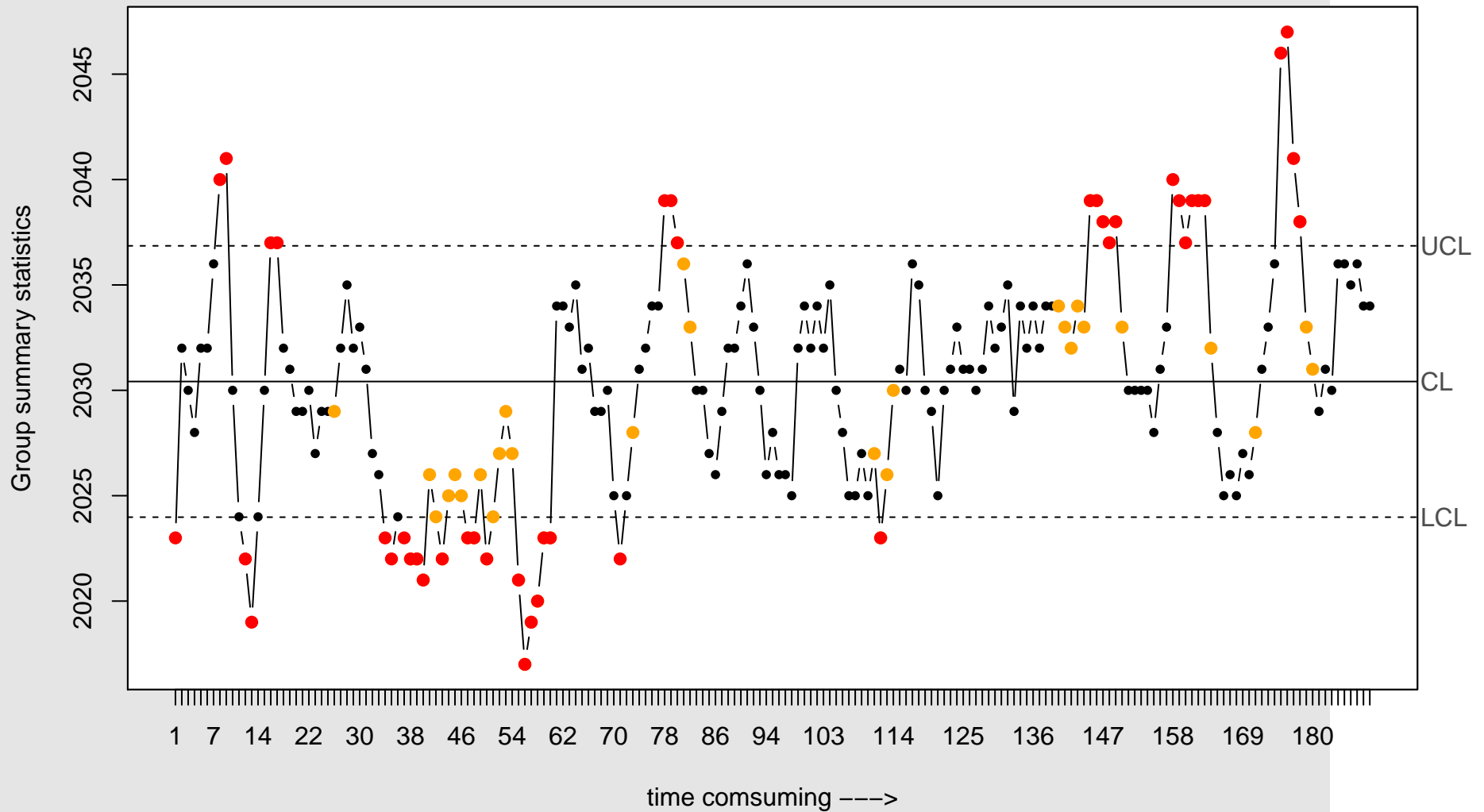


Number of groups = 189
 Center = 2030.413
 StdDev = 2.079561

LCL = 2024.174
 UCL = 2036.651

Number beyond limits = 52
 Number violating runs = 51

133th column point of this product

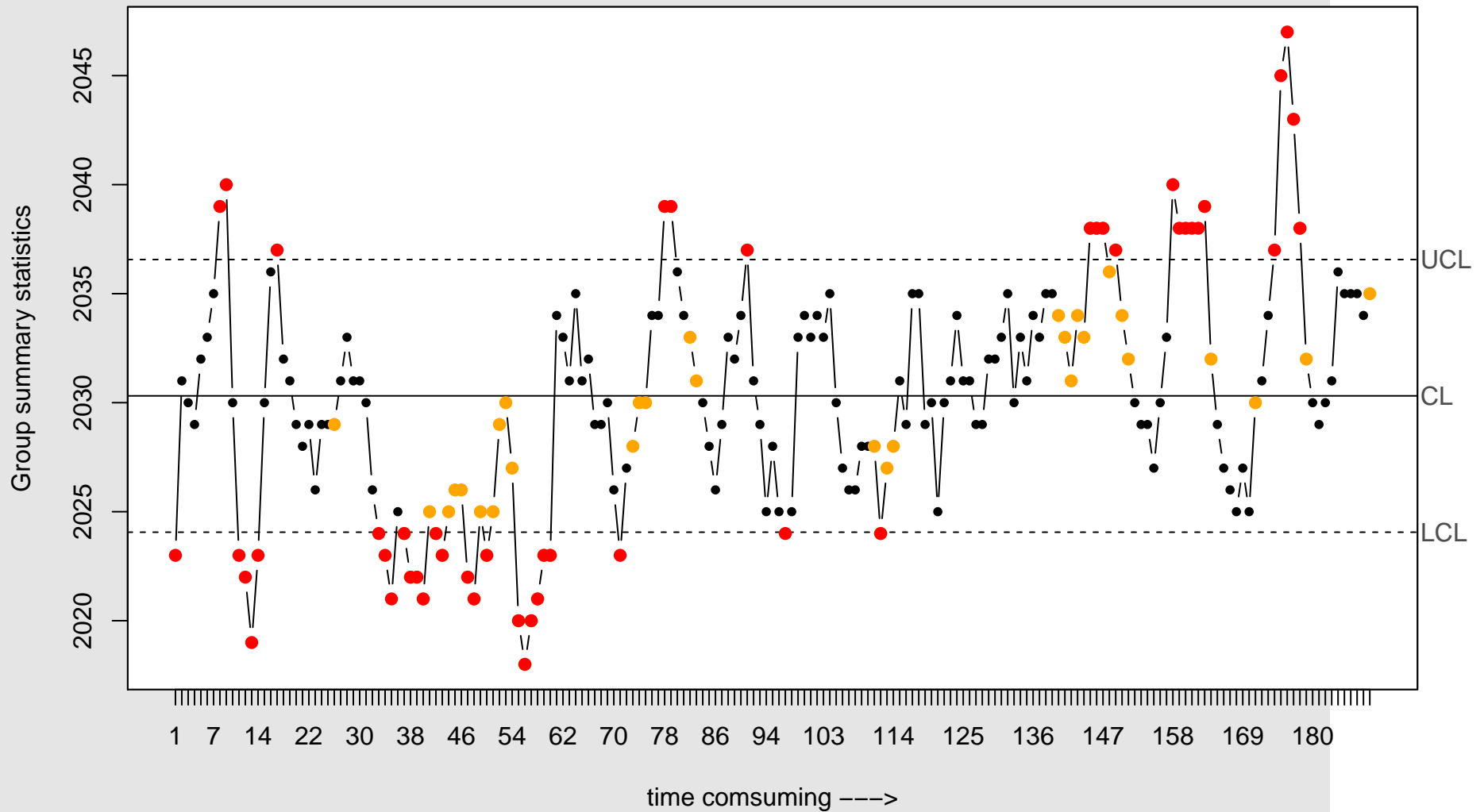


Number of groups = 189
Center = 2030.418
StdDev = 2.145579

LCL = 2023.981
UCL = 2036.855

Number beyond limits = 43
Number violating runs = 50

134th column point of this product

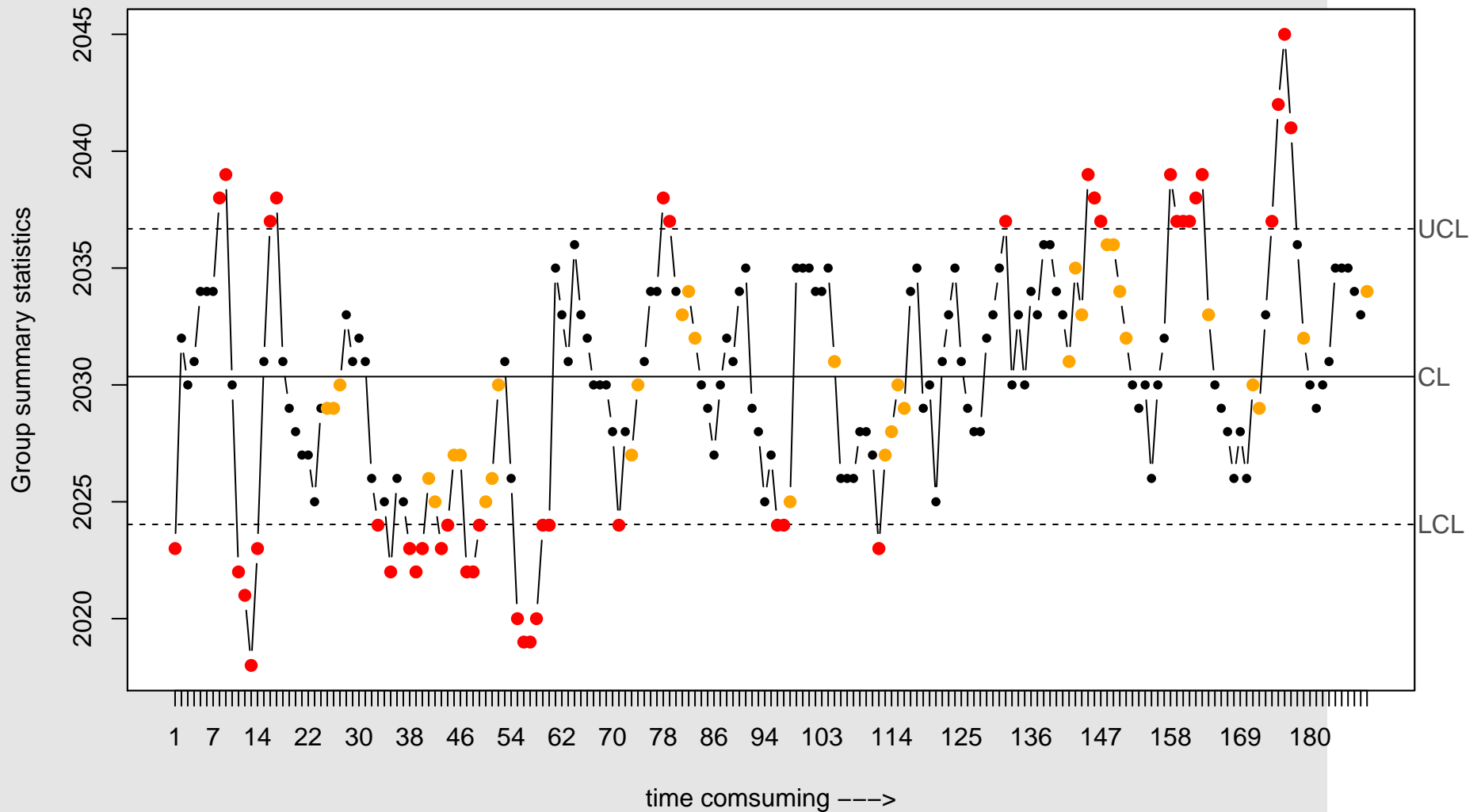


Number of groups = 189
 Center = 2030.312
 StdDev = 2.084276

LCL = 2024.059
 UCL = 2036.565

Number beyond limits = 47
 Number violating runs = 52

135th column point of this product



Number of groups = 189

Center = 2030.354

StdDev = 2.107854

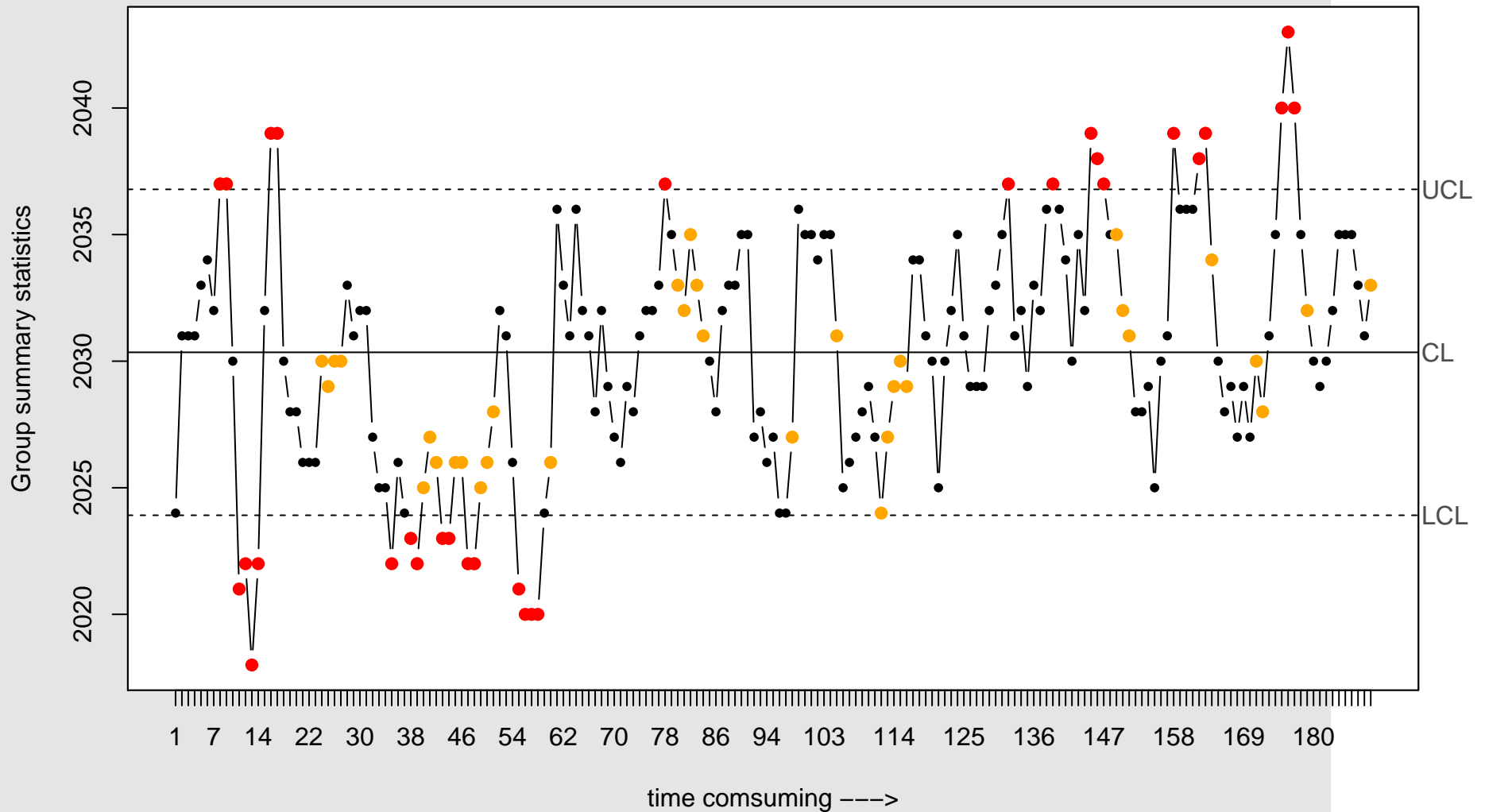
LCL = 2024.031

UCL = 2036.678

Number beyond limits = 45

Number violating runs = 47

136th column point of this product



Number of groups = 189

Center = 2030.349

StdDev = 2.145579

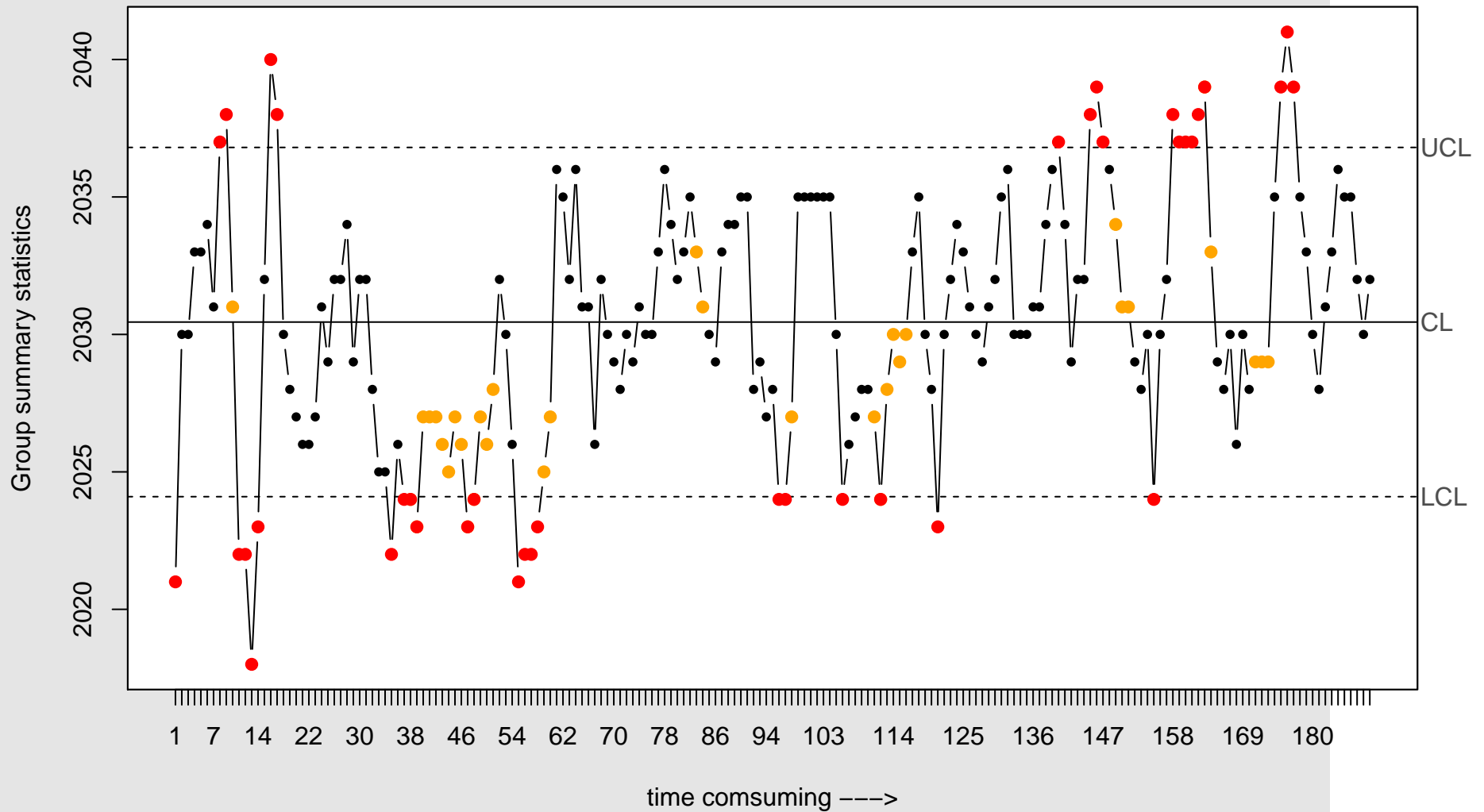
LCL = 2023.912

UCL = 2036.786

Number beyond limits = 31

Number violating runs = 42

137th column point of this product



Number of groups = 189

Center = 2030.45

StdDev = 2.117285

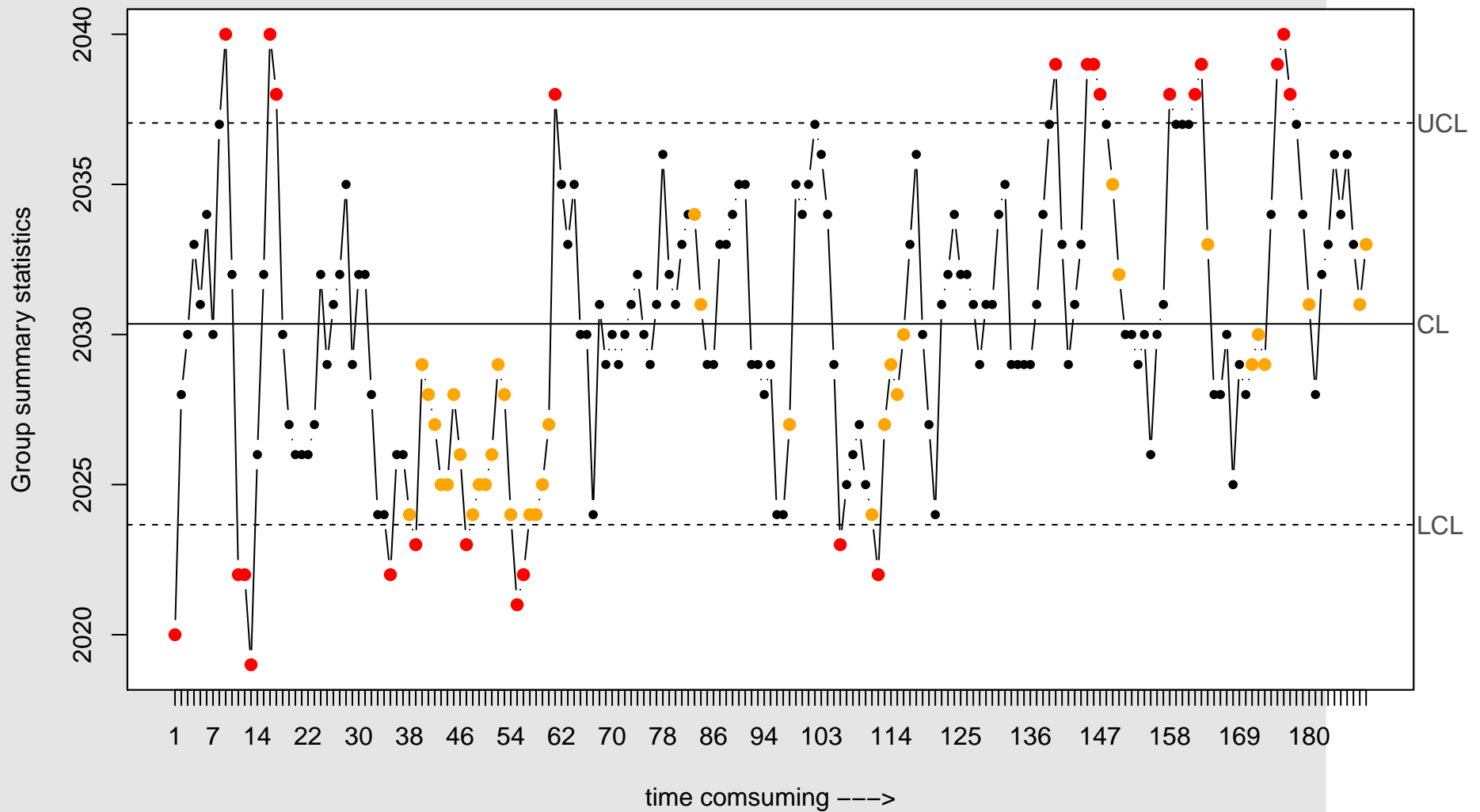
LCL = 2024.098

UCL = 2036.802

Number beyond limits = 38

Number violating runs = 34

138th column point of this product



Number of groups = 189

Center = 2030.354

StdDev = 2.230459

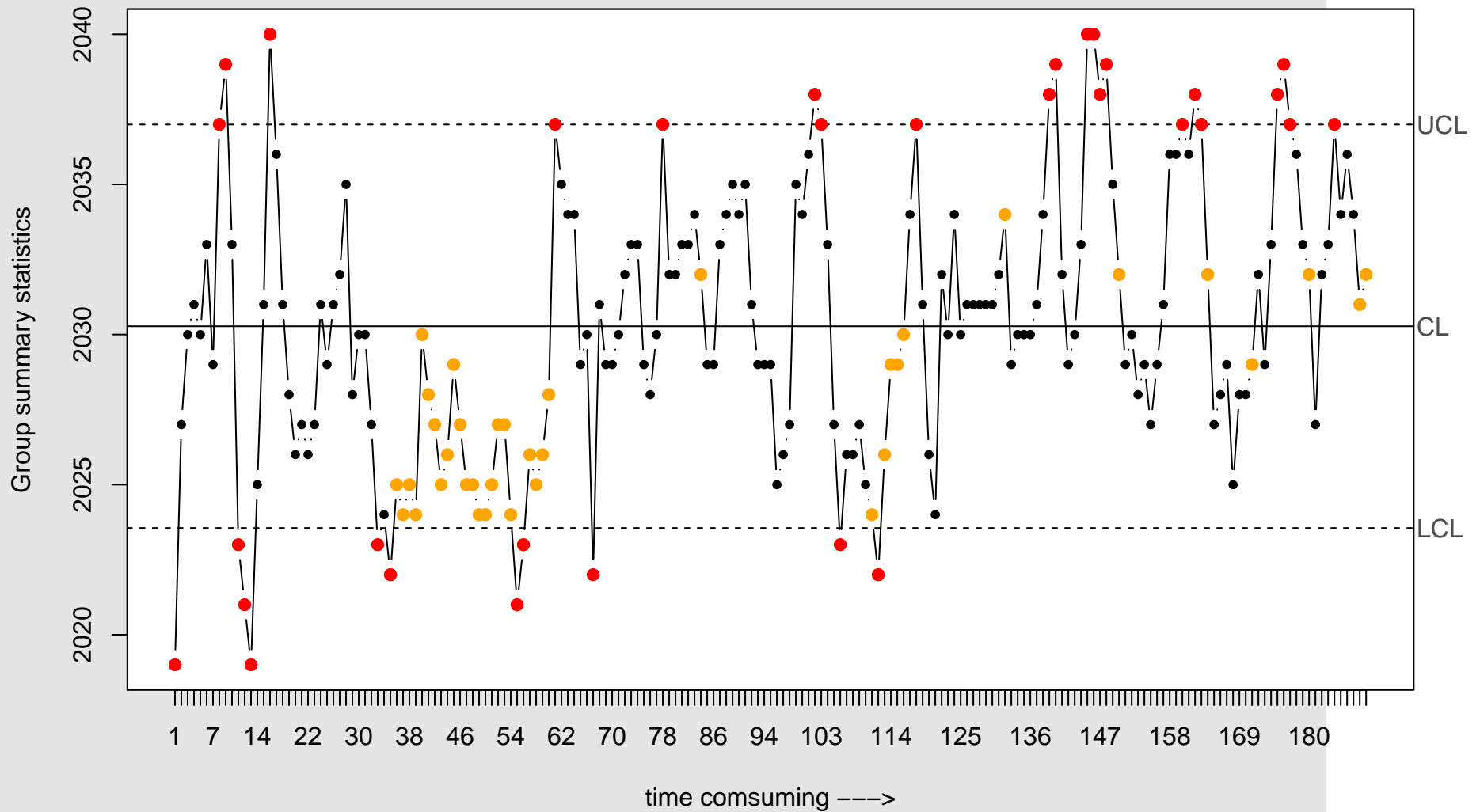
LCL = 2023.663

UCL = 2037.046

Number beyond limits = 25

Number violating runs = 42

139th column point of this product



Number of groups = 189

Center = 2030.275

StdDev = 2.23989

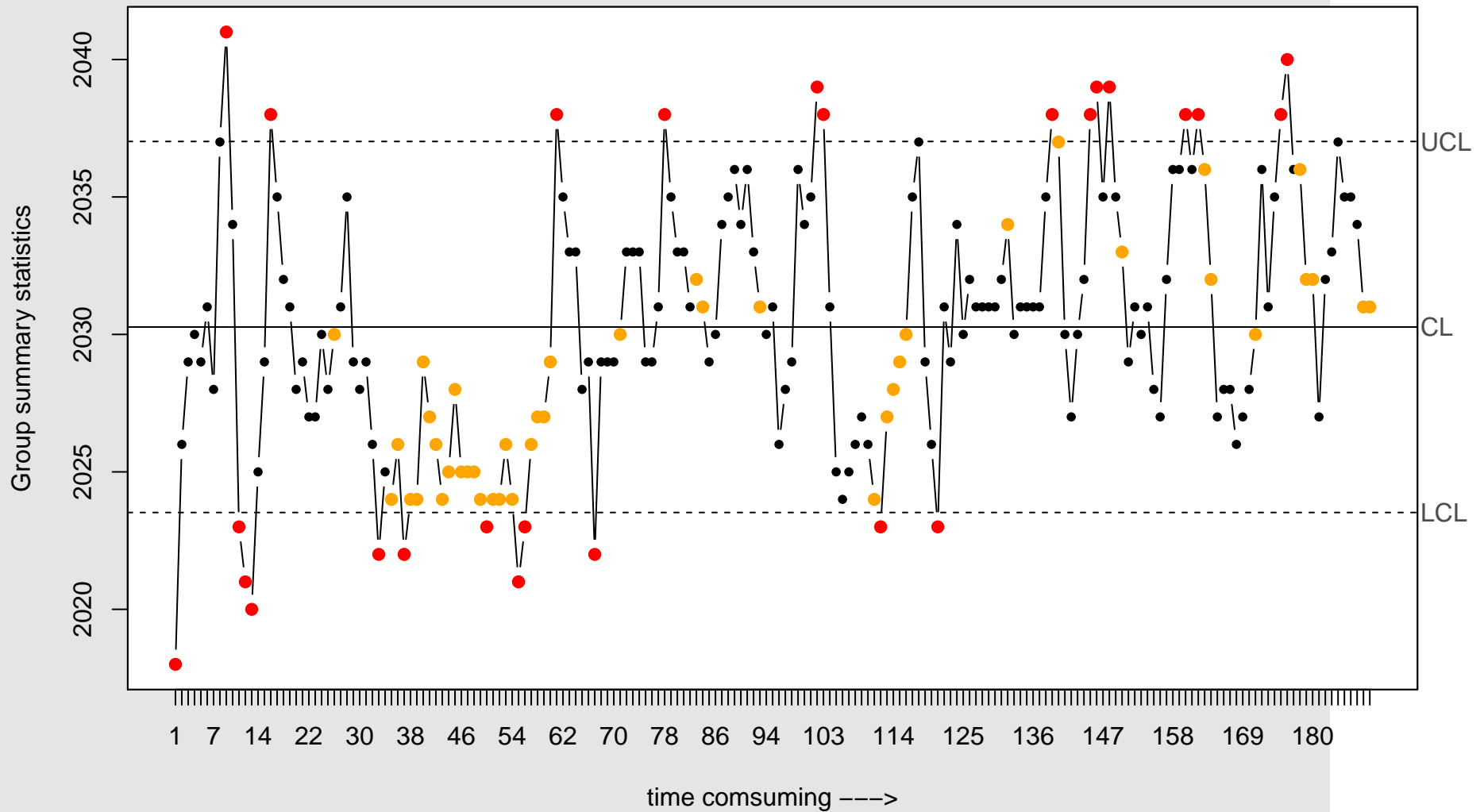
LCL = 2023.555

UCL = 2036.995

Number beyond limits = 32

Number violating runs = 41

140th column point of this product



Number of groups = 189

Center = 2030.27

StdDev = 2.249321

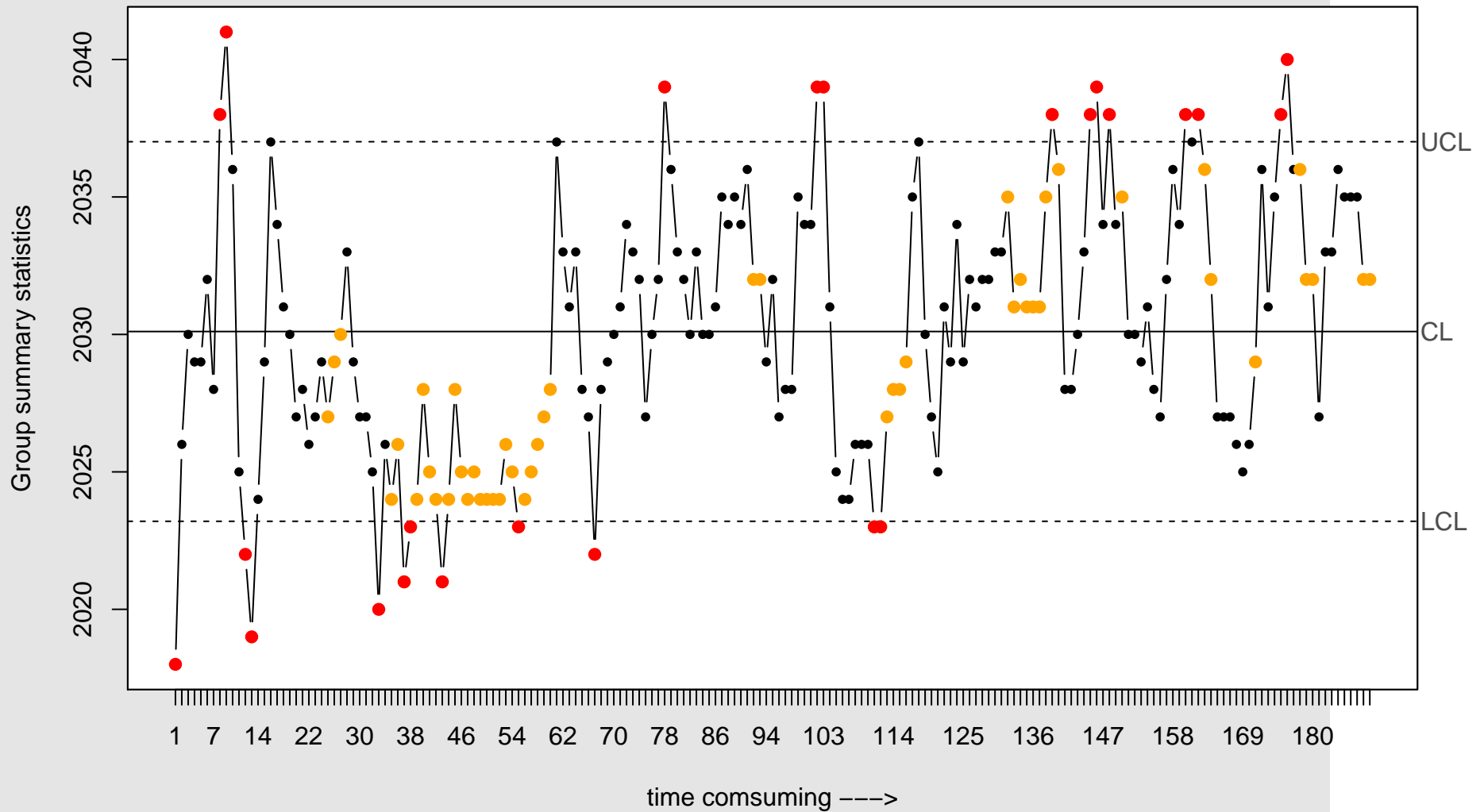
LCL = 2023.522

UCL = 2037.018

Number beyond limits = 26

Number violating runs = 48

141th column point of this product

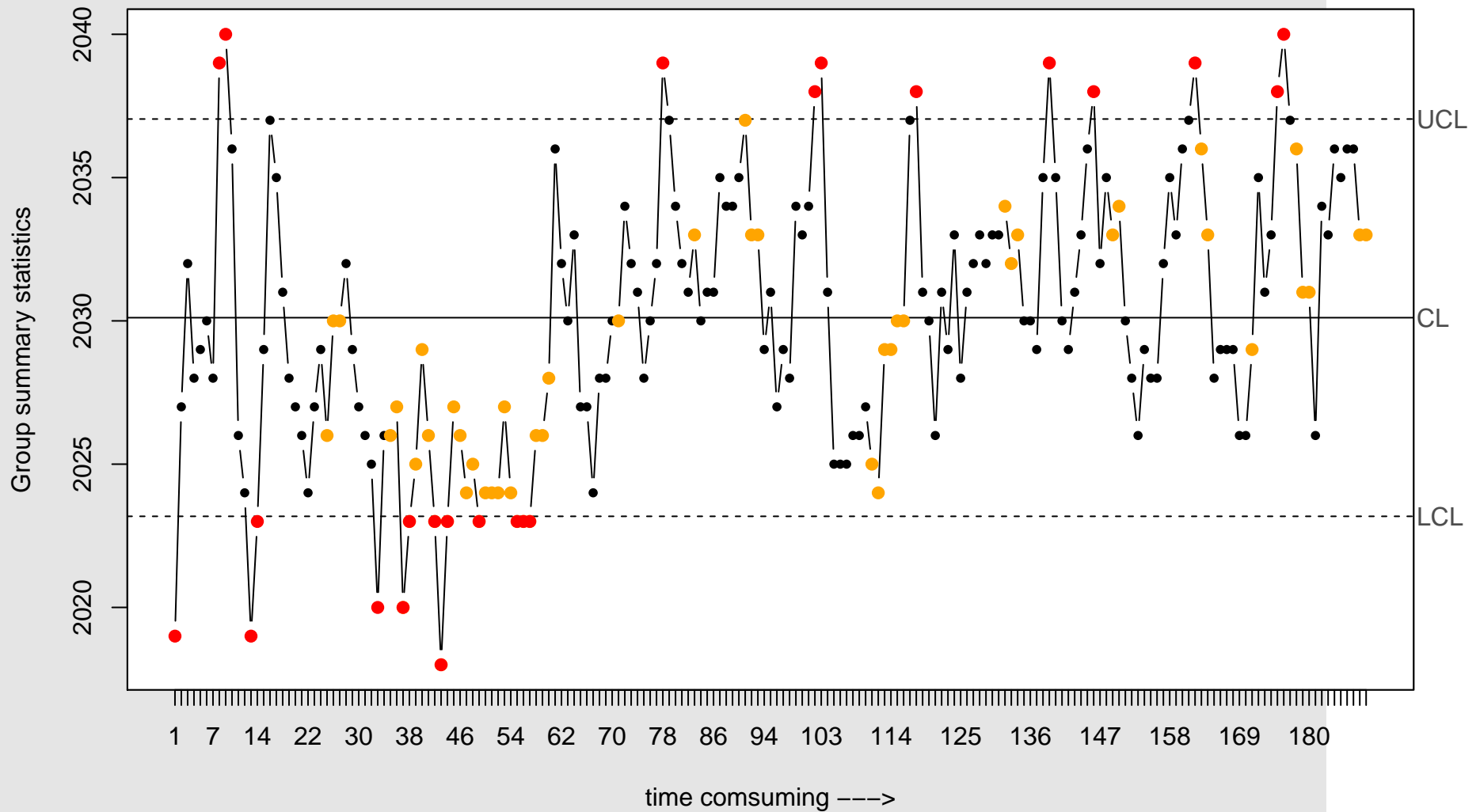


Number of groups = 189
 Center = 2030.106
 StdDev = 2.301192

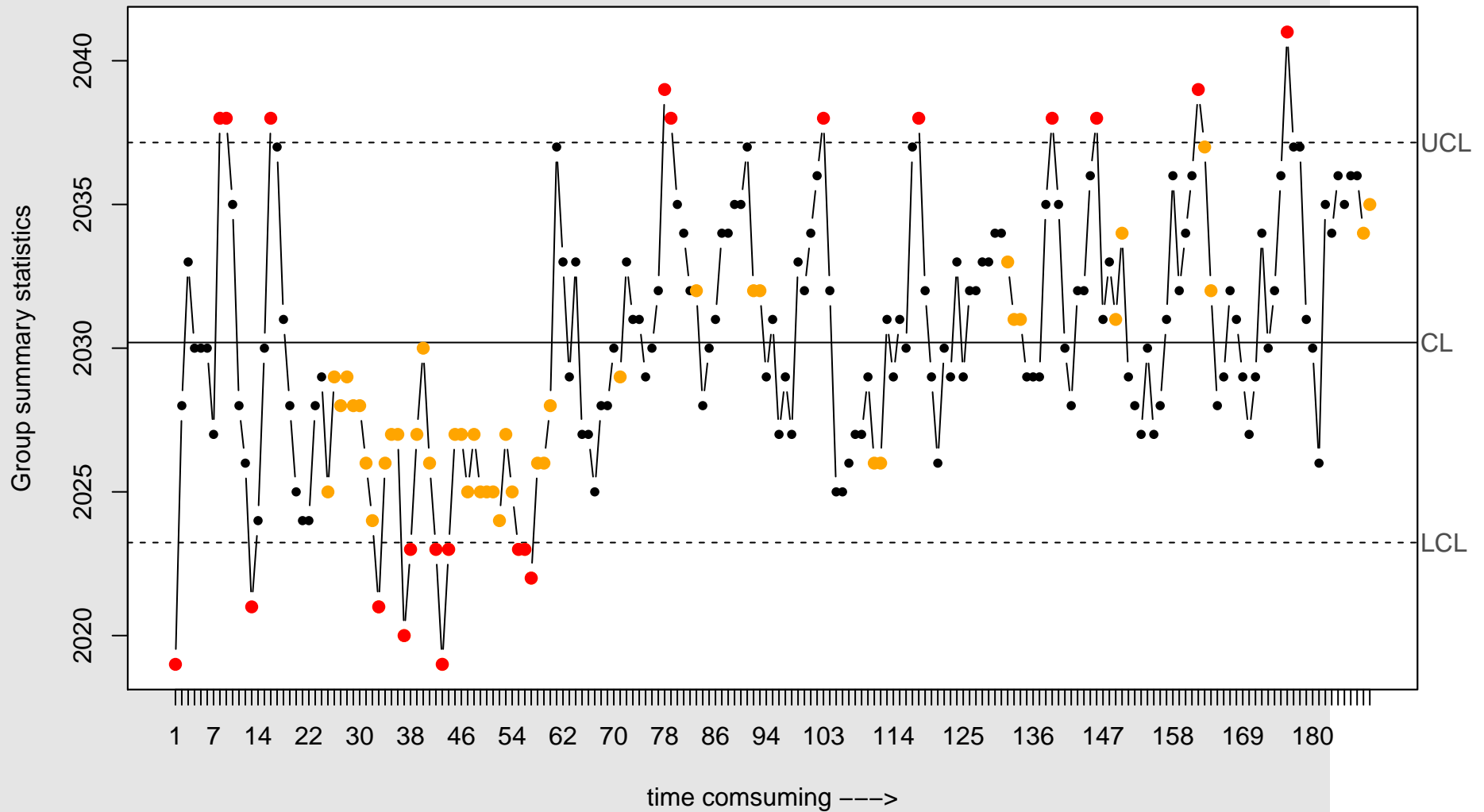
LCL = 2023.202
 UCL = 2037.009

Number beyond limits = 24
 Number violating runs = 55

142th column point of this product



143th column point of this product



Number of groups = 189

Center = 2030.196

StdDev = 2.320054

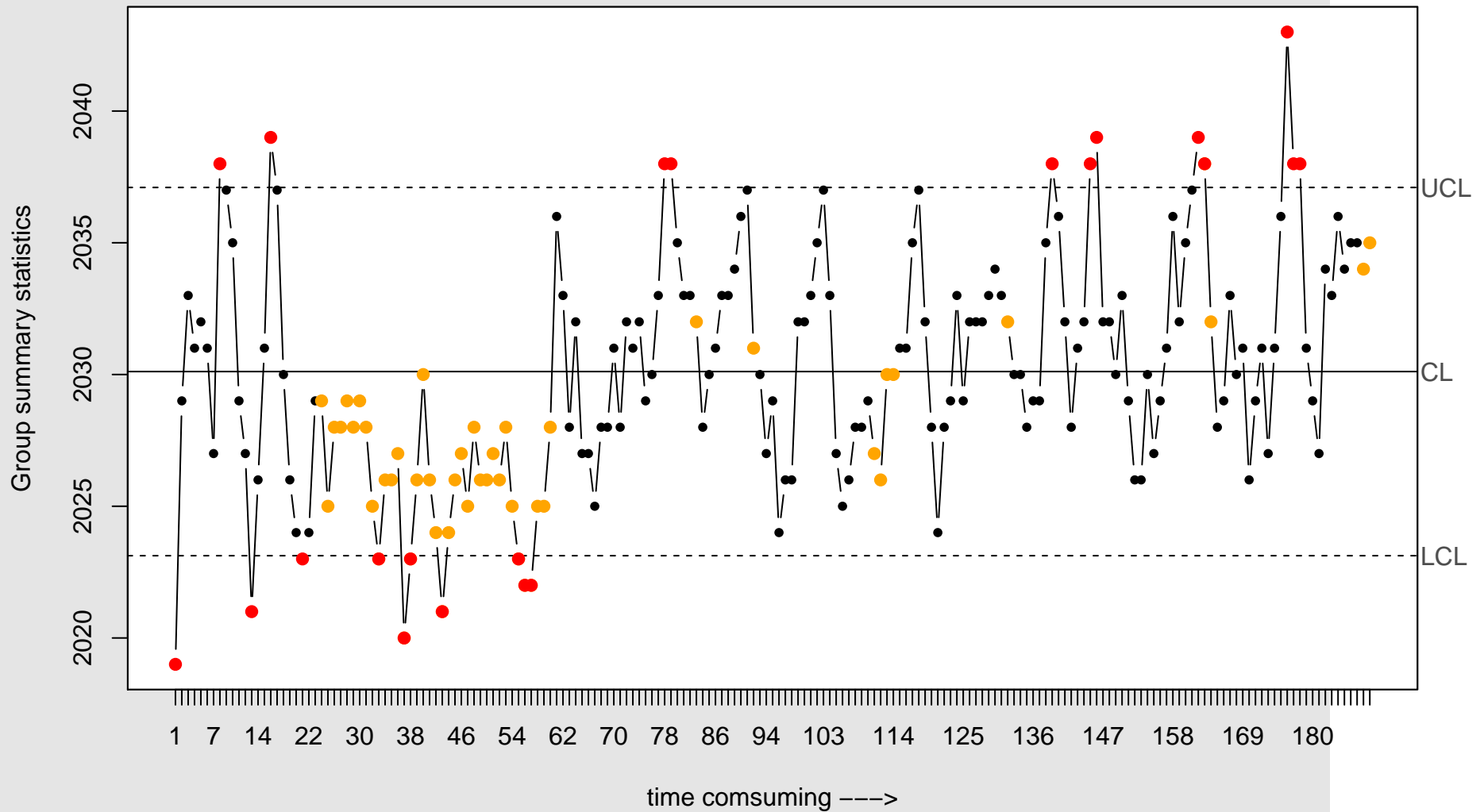
LCL = 2023.236

UCL = 2037.156

Number beyond limits = 22

Number violating runs = 51

144th column point of this product

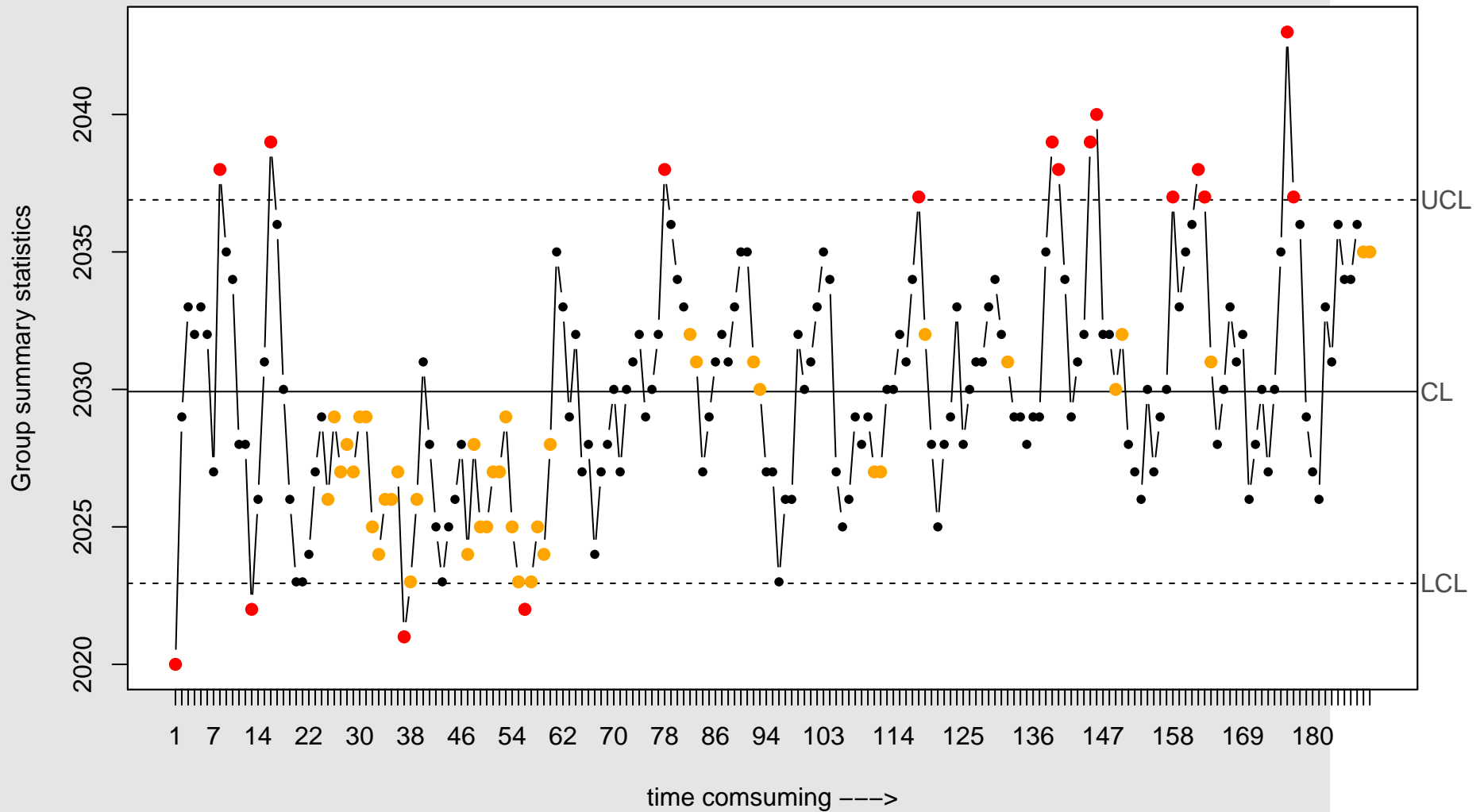


Number of groups = 189
Center = 2030.111
StdDev = 2.329485

LCL = 2023.123
UCL = 2037.1

Number beyond limits = 22
Number violating runs = 48

145th column point of this product

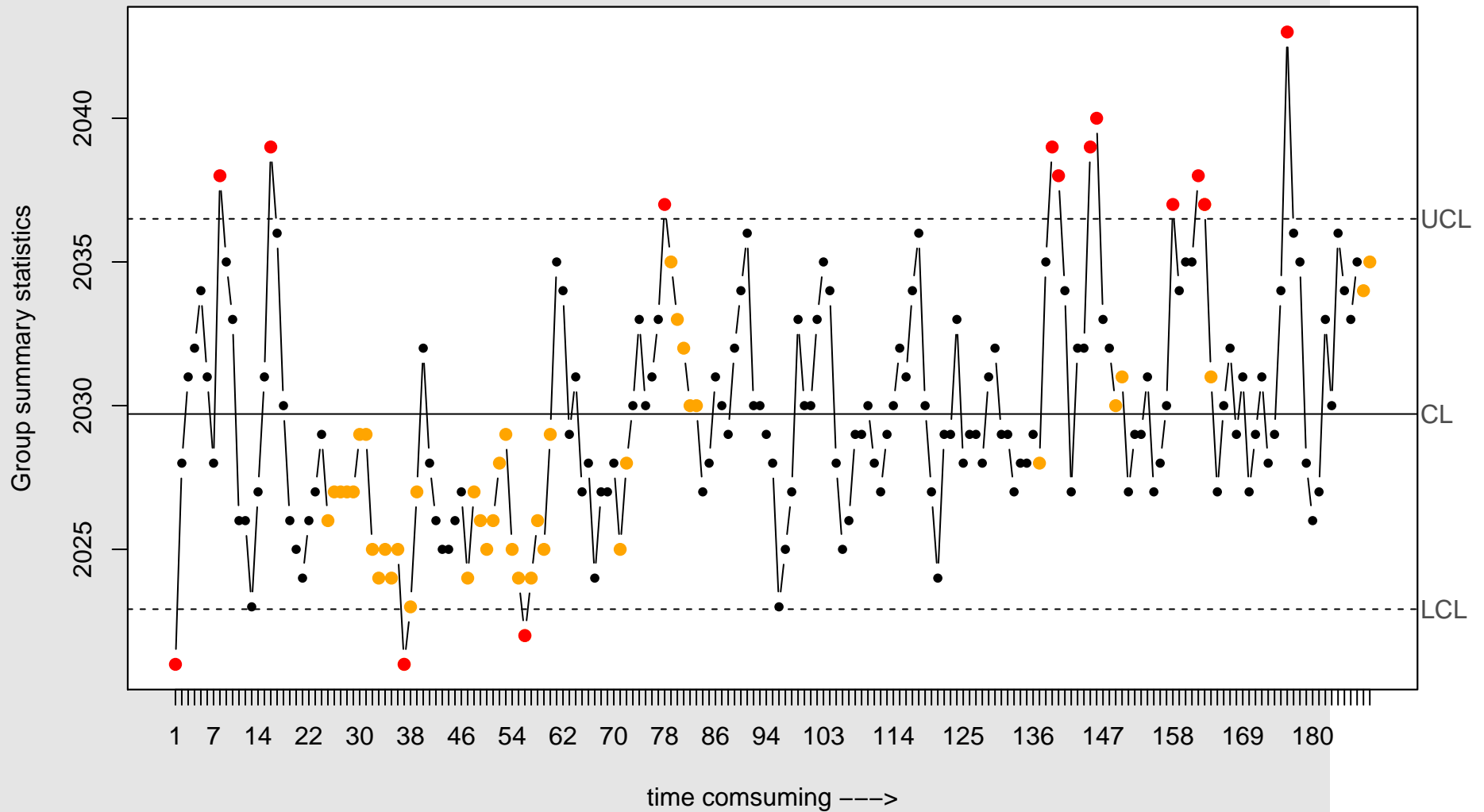


Number of groups = 189
Center = 2029.921
StdDev = 2.32477

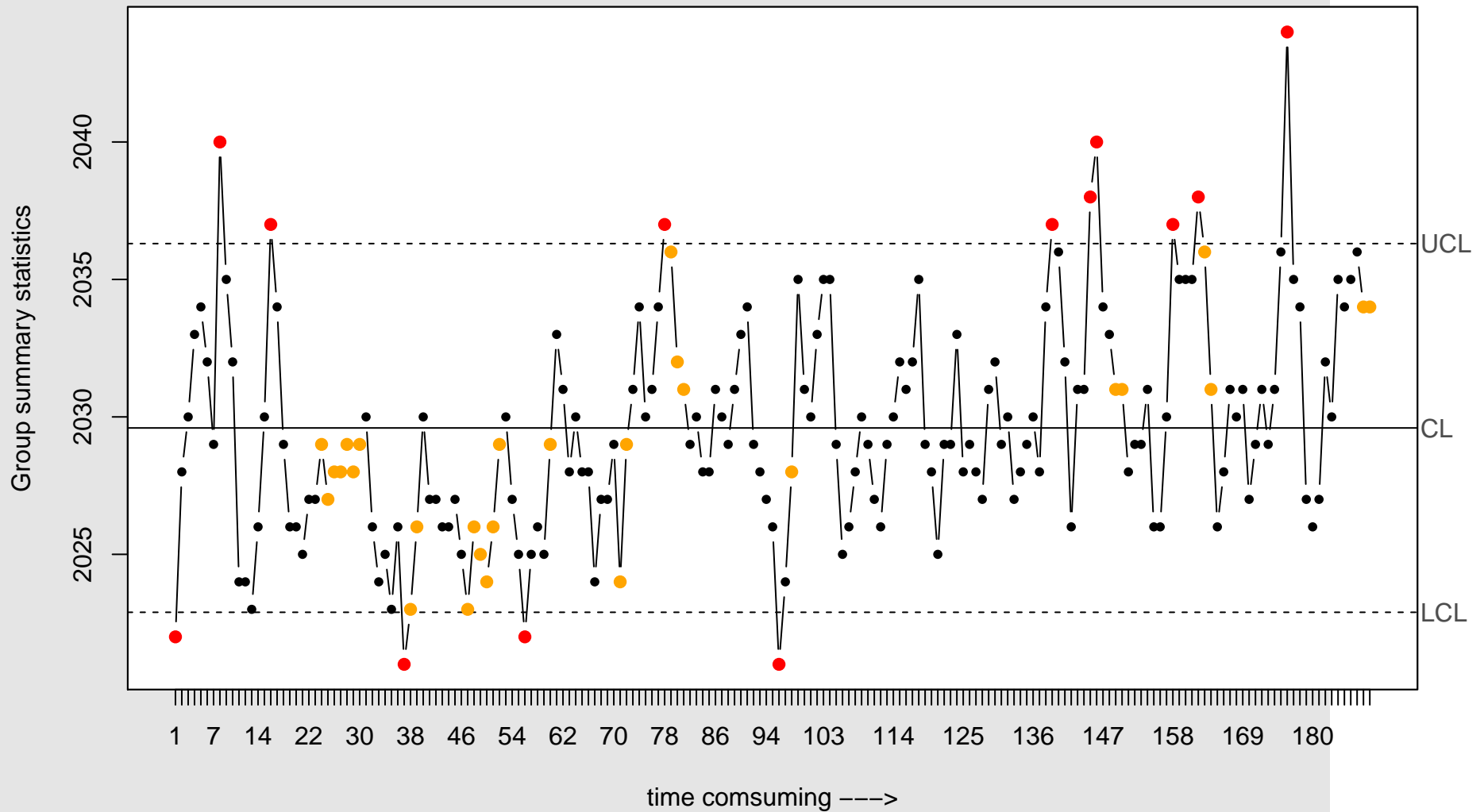
LCL = 2022.946
UCL = 2036.895

Number beyond limits = 17
Number violating runs = 43

146th column point of this product



147th column point of this product



Number of groups = 189

Center = 2029.598

StdDev = 2.235174

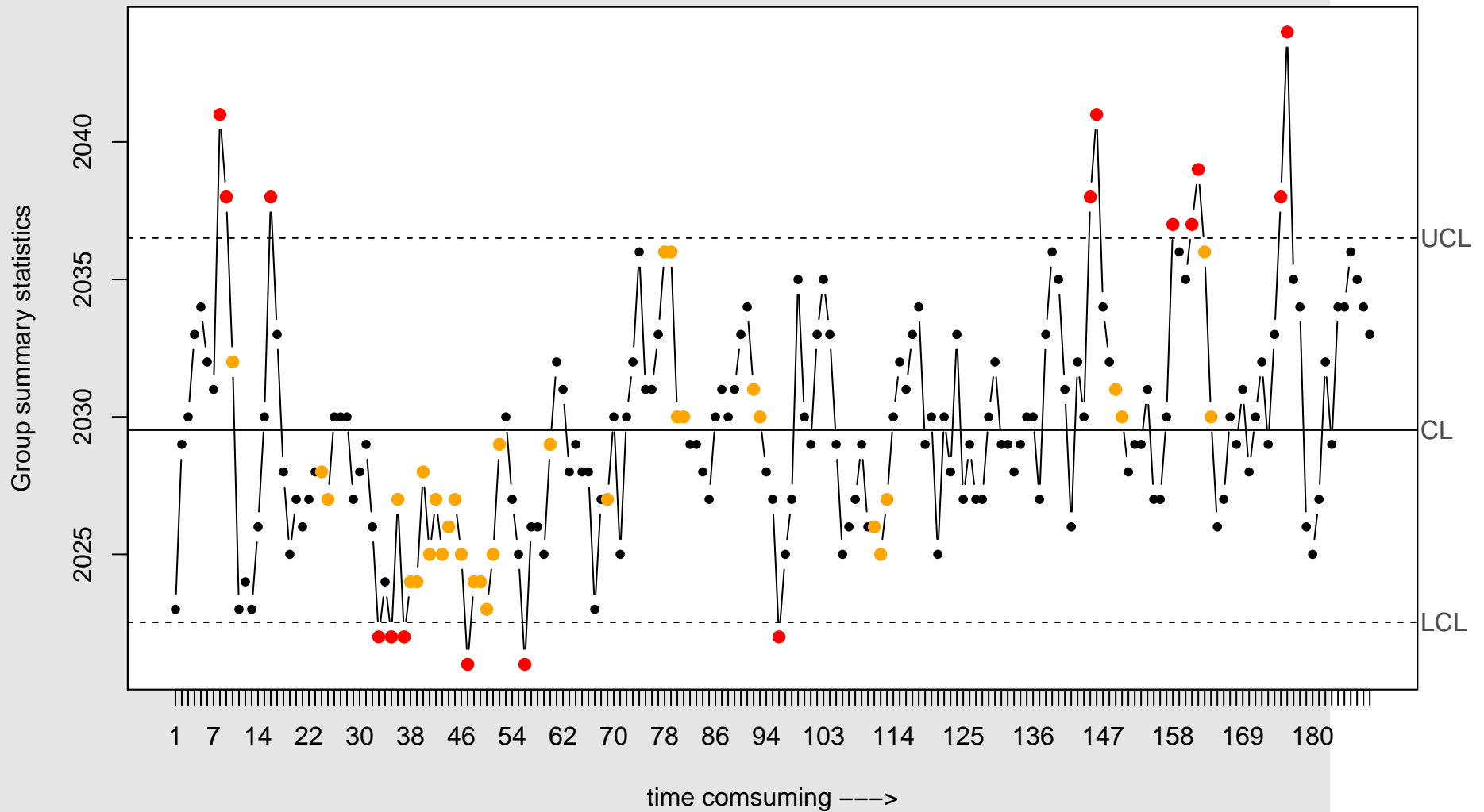
LCL = 2022.892

UCL = 2036.303

Number beyond limits = 13

Number violating runs = 28

148th column point of this product



Number of groups = 189

Center = 2029.519

StdDev = 2.329485

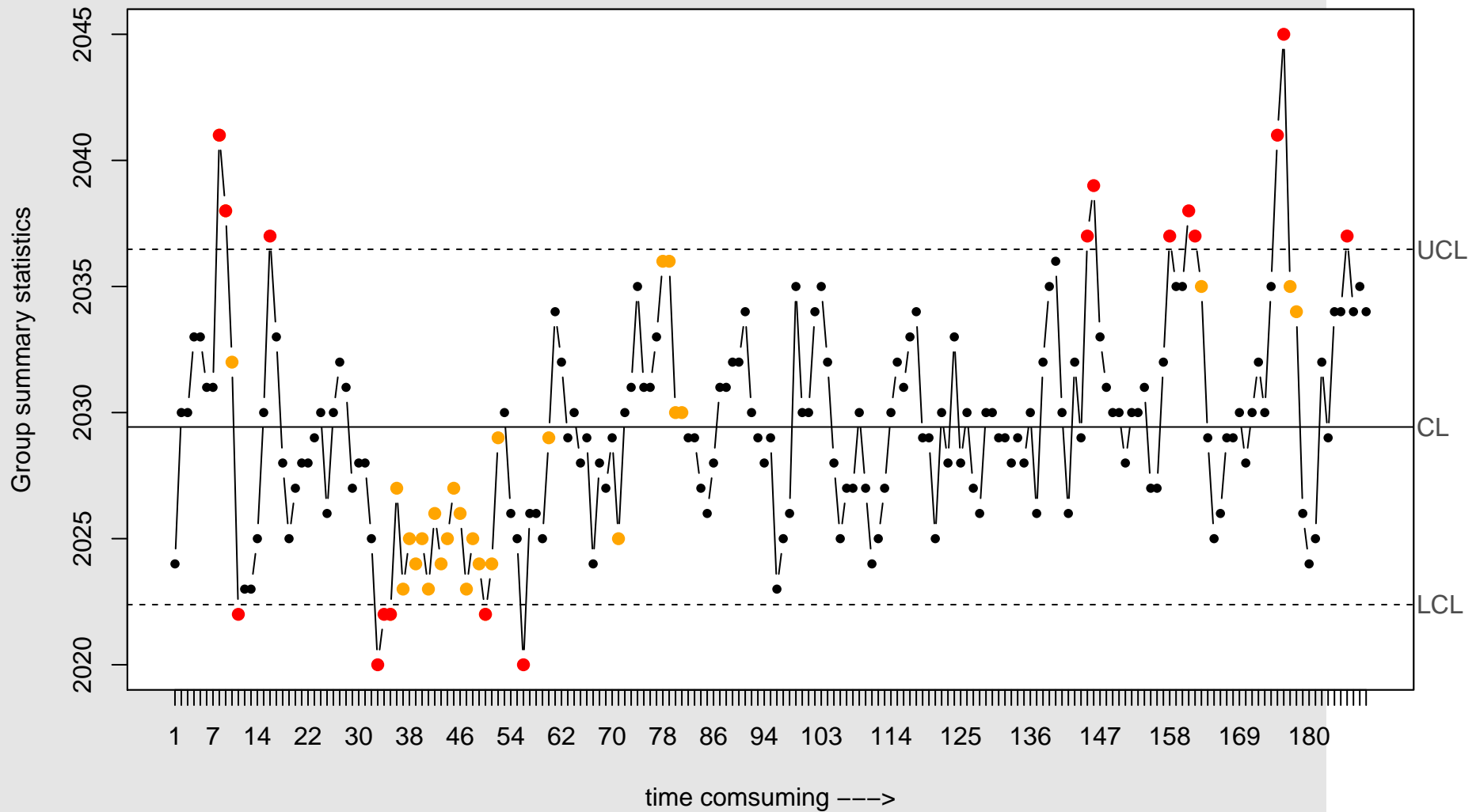
LCL = 2022.53

UCL = 2036.507

Number beyond limits = 16

Number violating runs = 37

149th column point of this product



Number of groups = 189

Center = 2029.429

StdDev = 2.348348

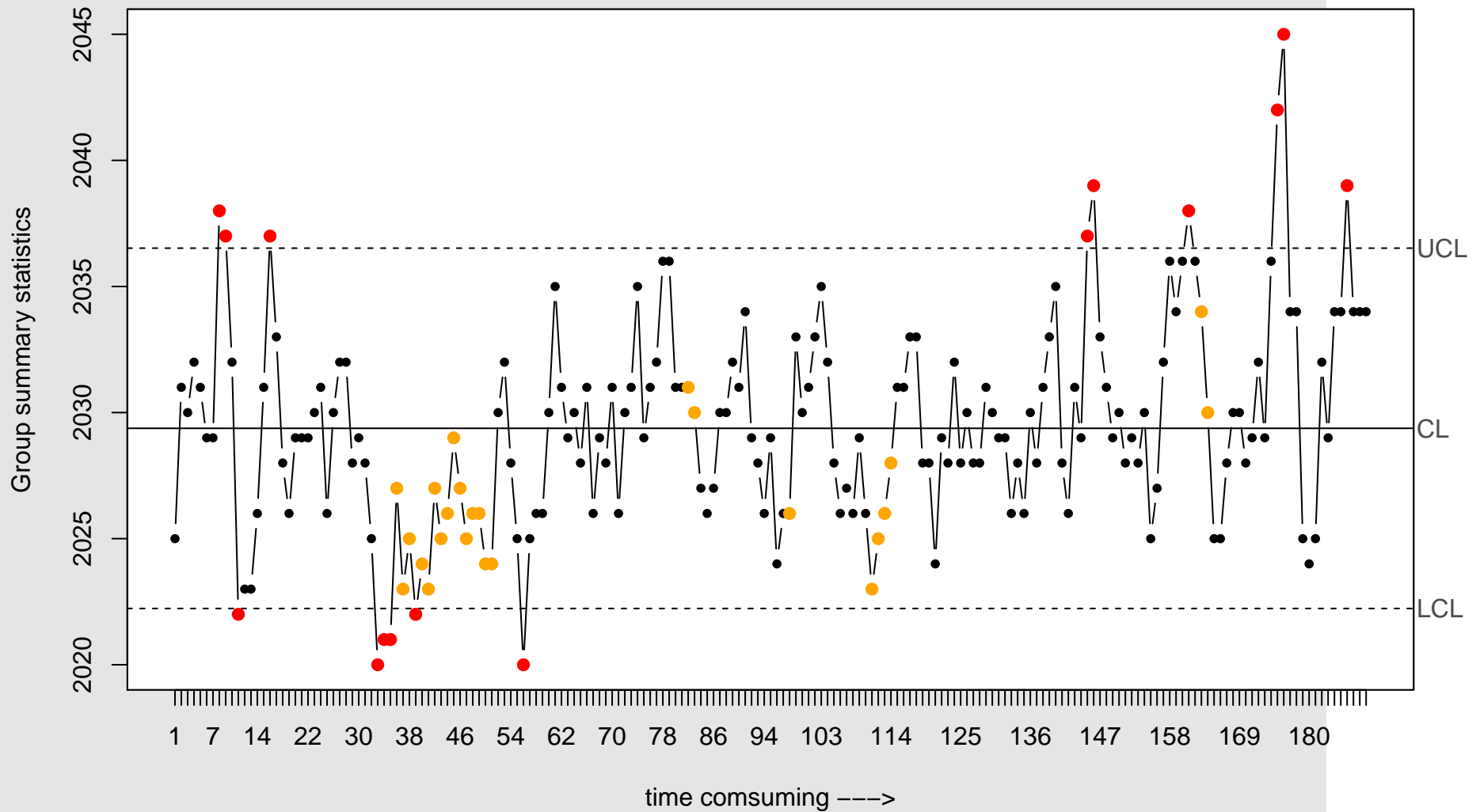
LCL = 2022.384

UCL = 2036.474

Number beyond limits = 17

Number violating runs = 30

150th column point of this product



Number of groups = 189

Center = 2029.376

StdDev = 2.381357

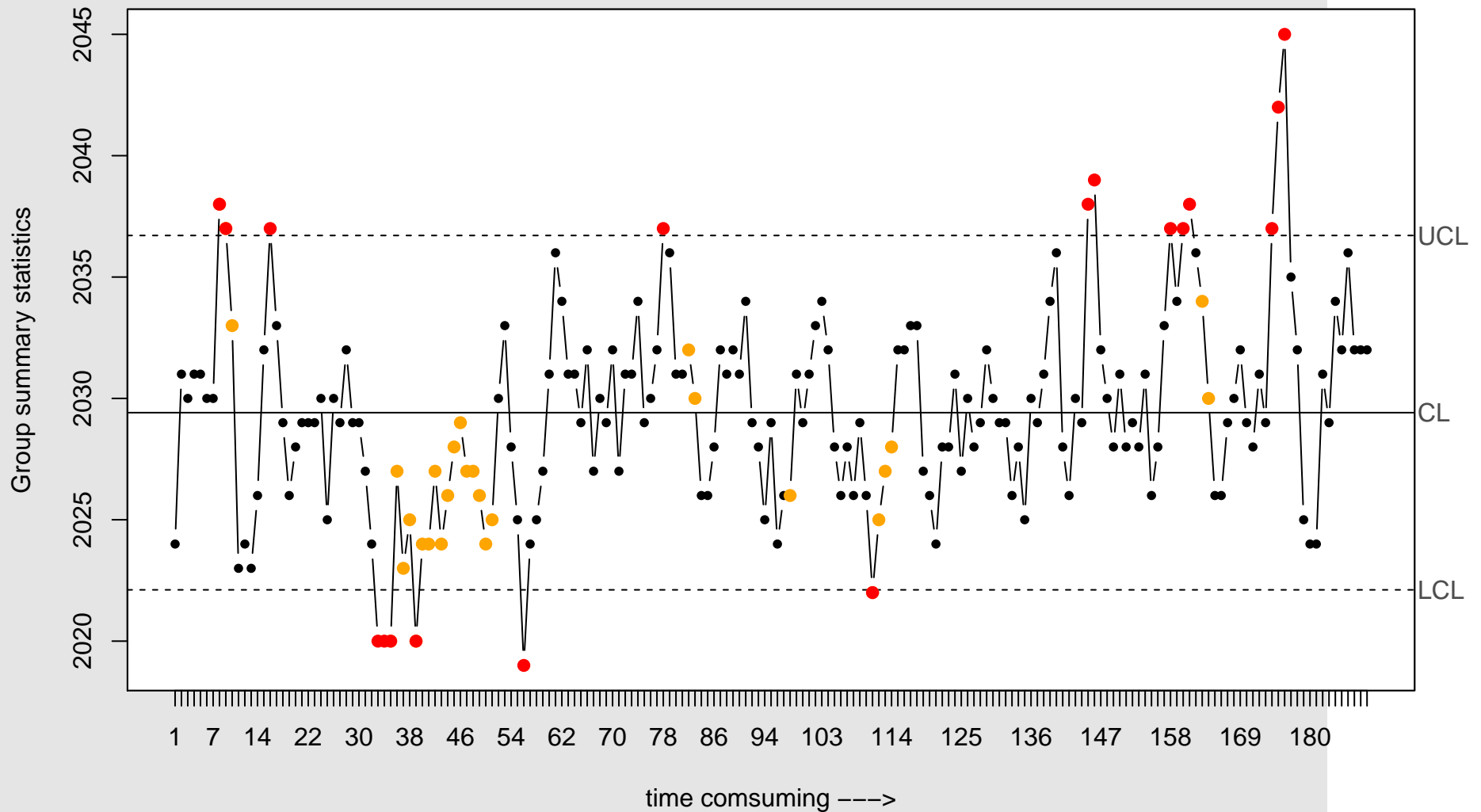
LCL = 2022.232

UCL = 2036.52

Number beyond limits = 15

Number violating runs = 26

151th column point of this product

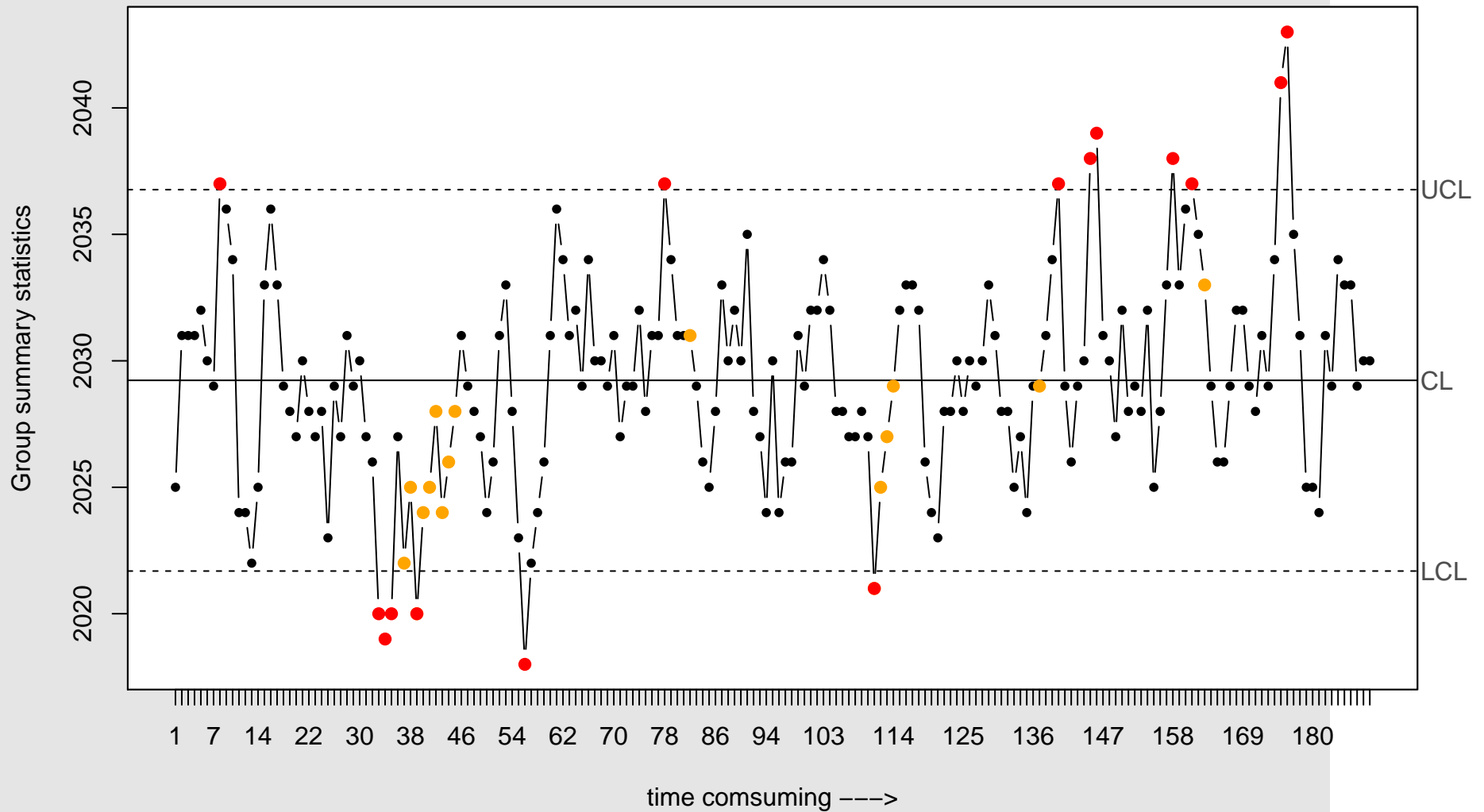


Number of groups = 189
Center = 2029.413
StdDev = 2.433228

LCL = 2022.113
UCL = 2036.712

Number beyond limits = 18
Number violating runs = 29

152th column point of this product

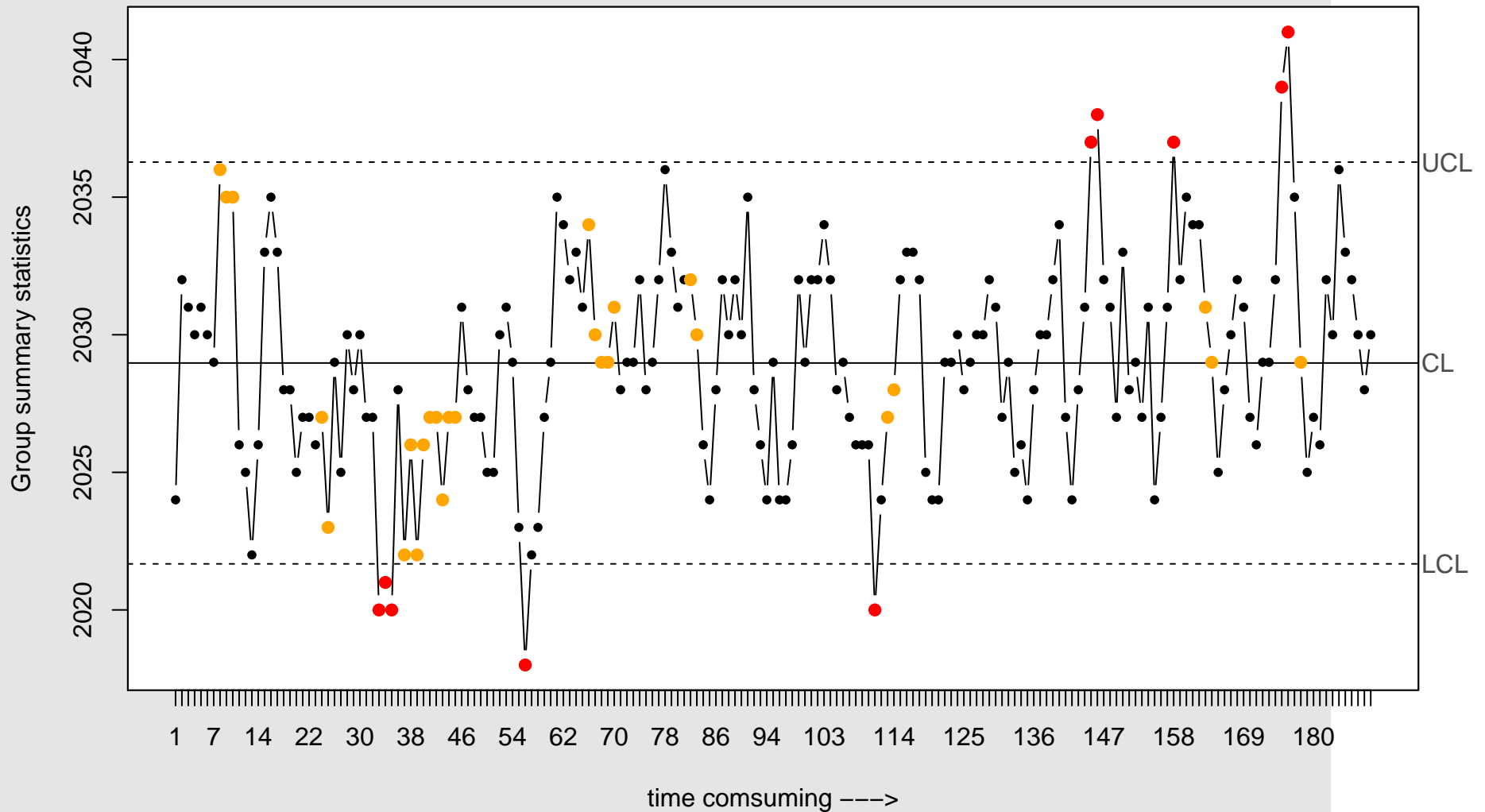


Number of groups = 189
Center = 2029.228
StdDev = 2.513392

LCL = 2021.687
UCL = 2036.768

Number beyond limits = 15
Number violating runs = 16

153th column point of this product

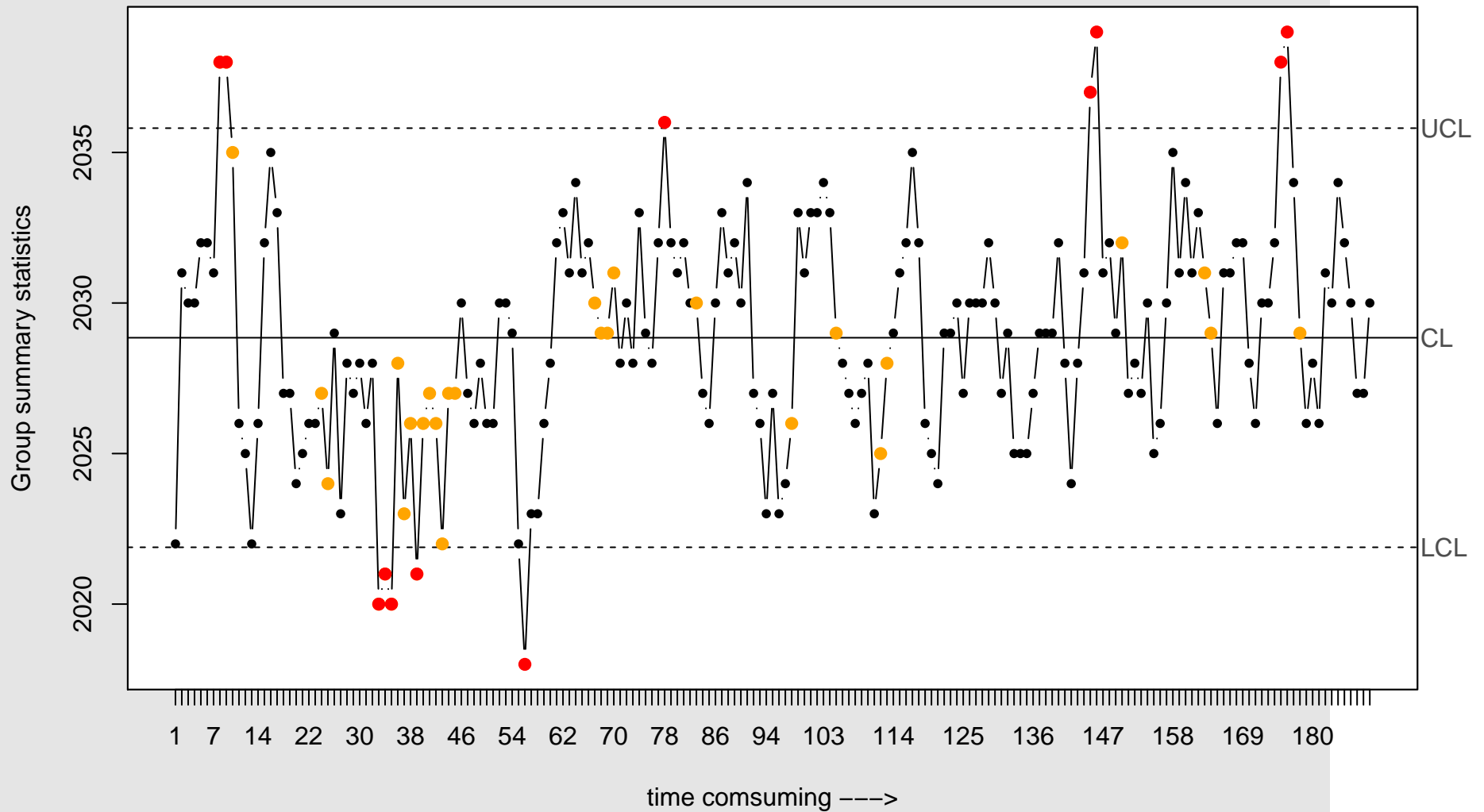


Number of groups = 189
 Center = 2028.974
 StdDev = 2.433228

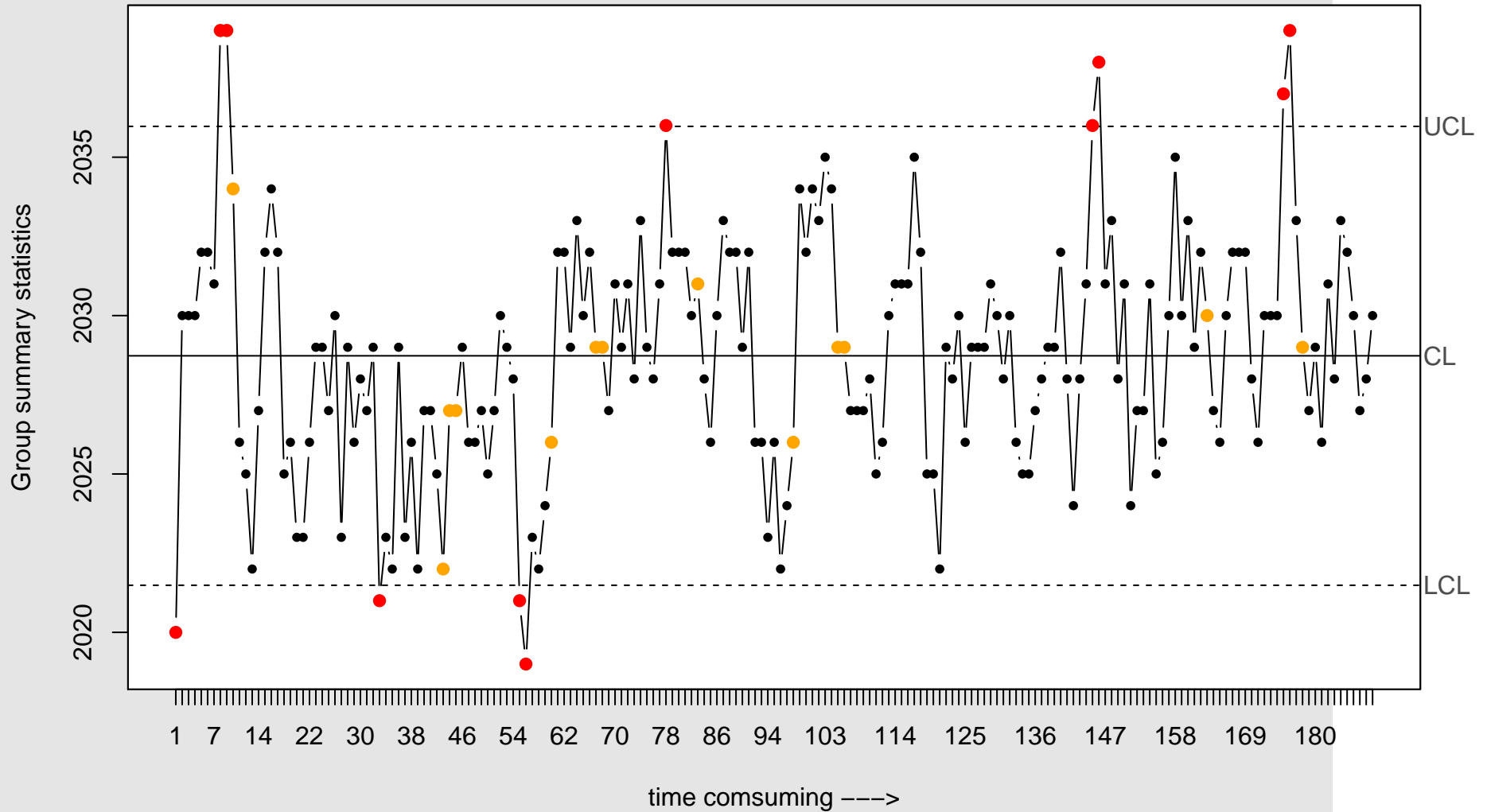
LCL = 2021.674
 UCL = 2036.273

Number beyond limits = 10
 Number violating runs = 26

154th column point of this product



155th column point of this product



Number of groups = 189

Center = 2028.73

StdDev = 2.414365

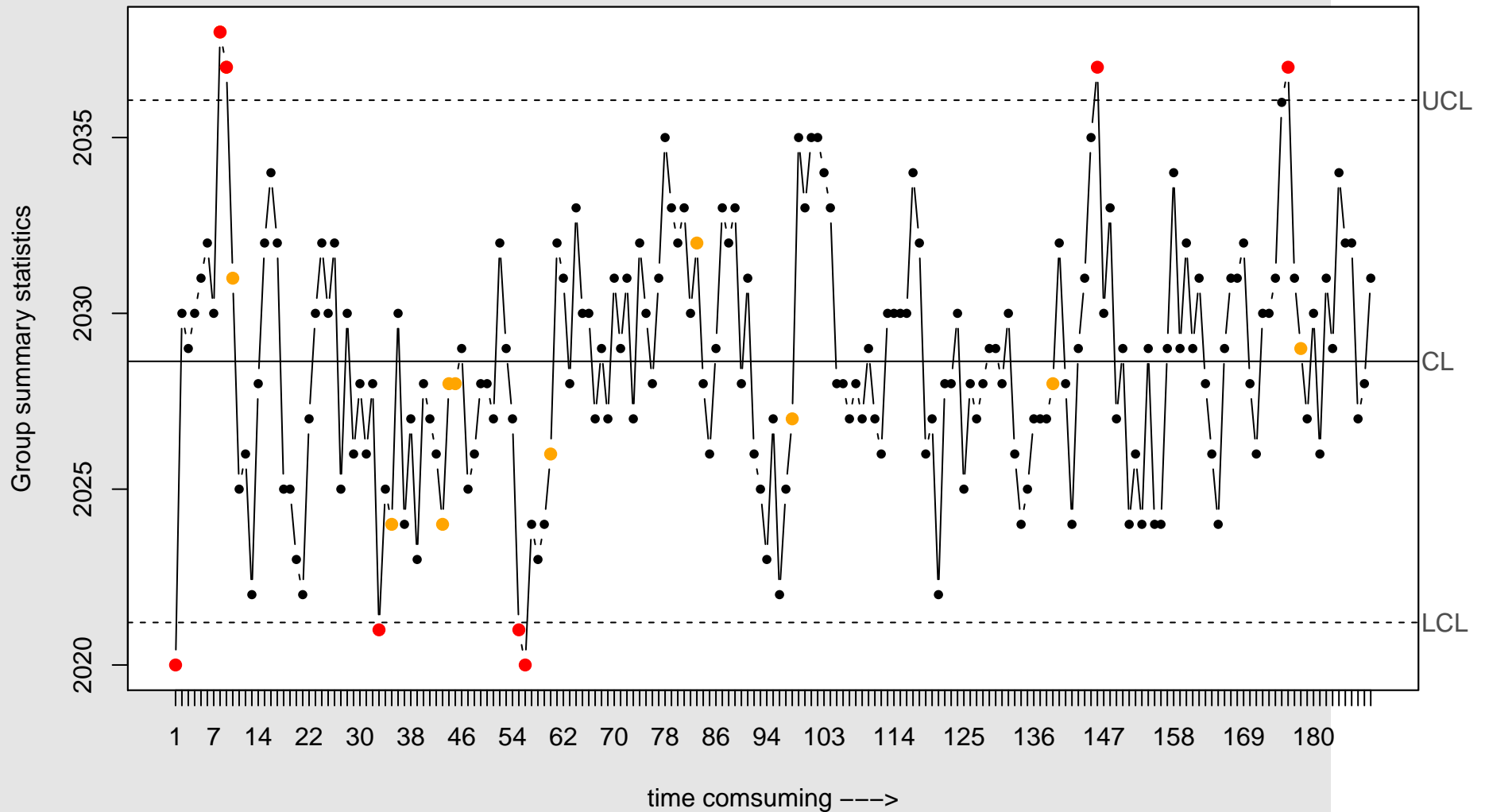
LCL = 2021.487

UCL = 2035.973

Number beyond limits = 11

Number violating runs = 15

156th column point of this product

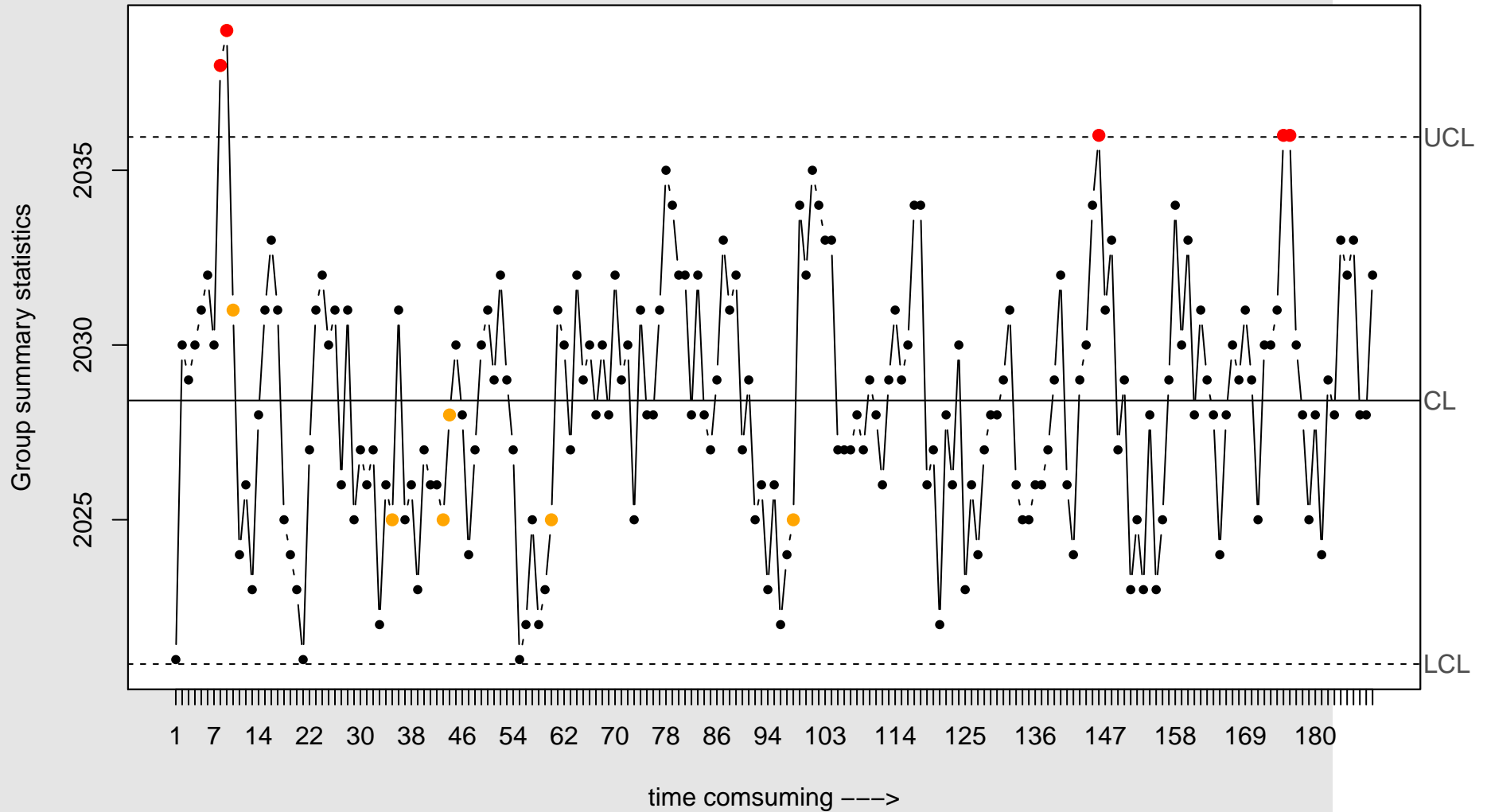


Number of groups = 189
Center = 2028.635
StdDev = 2.475668

LCL = 2021.208
UCL = 2036.062

Number beyond limits = 8
Number violating runs = 12

157th column point of this product

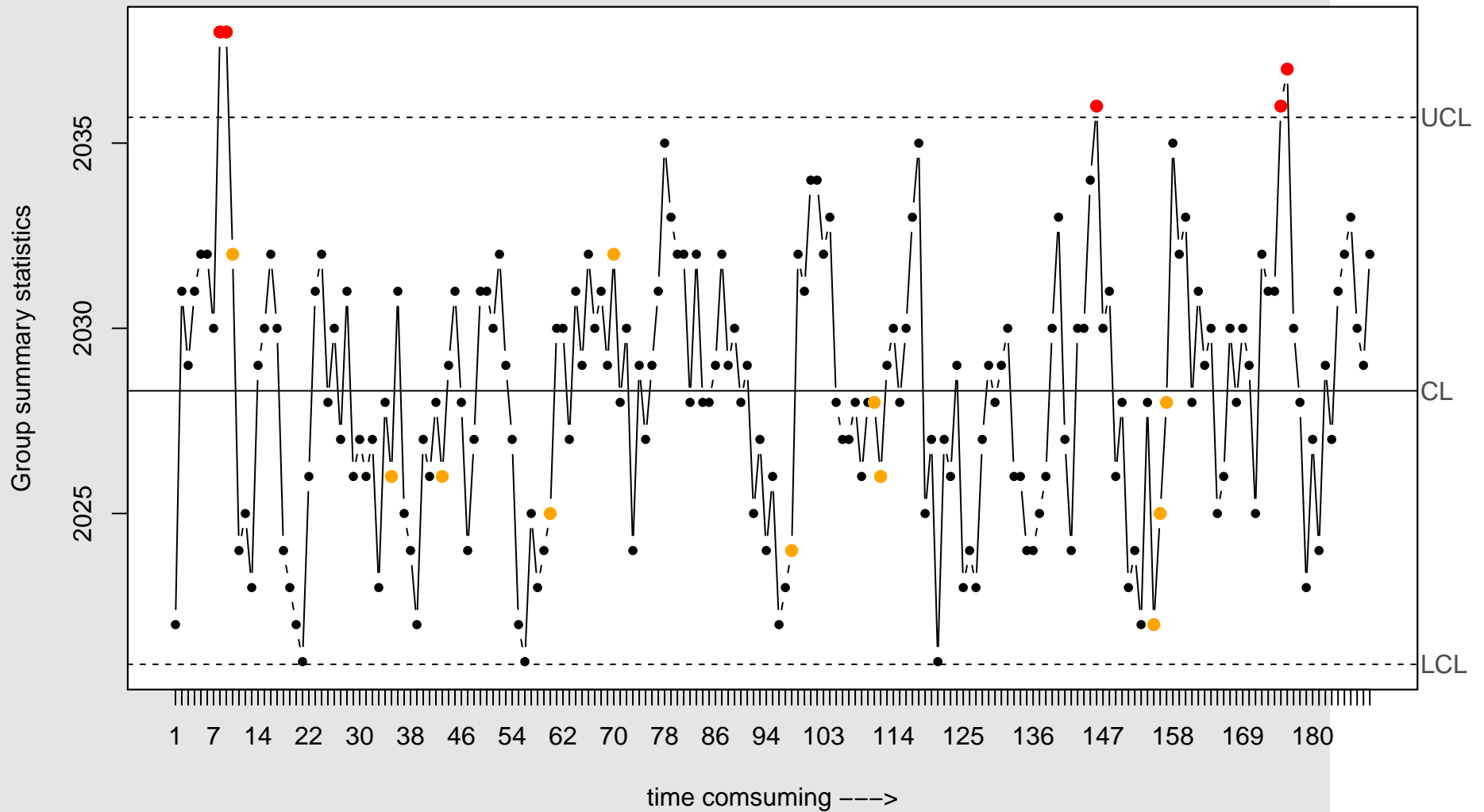


Number of groups = 189
Center = 2028.413
StdDev = 2.513392

LCL = 2020.873
UCL = 2035.953

Number beyond limits = 5
Number violating runs = 8

158th column point of this product



Number of groups = 189

Center = 2028.312

StdDev = 2.461521

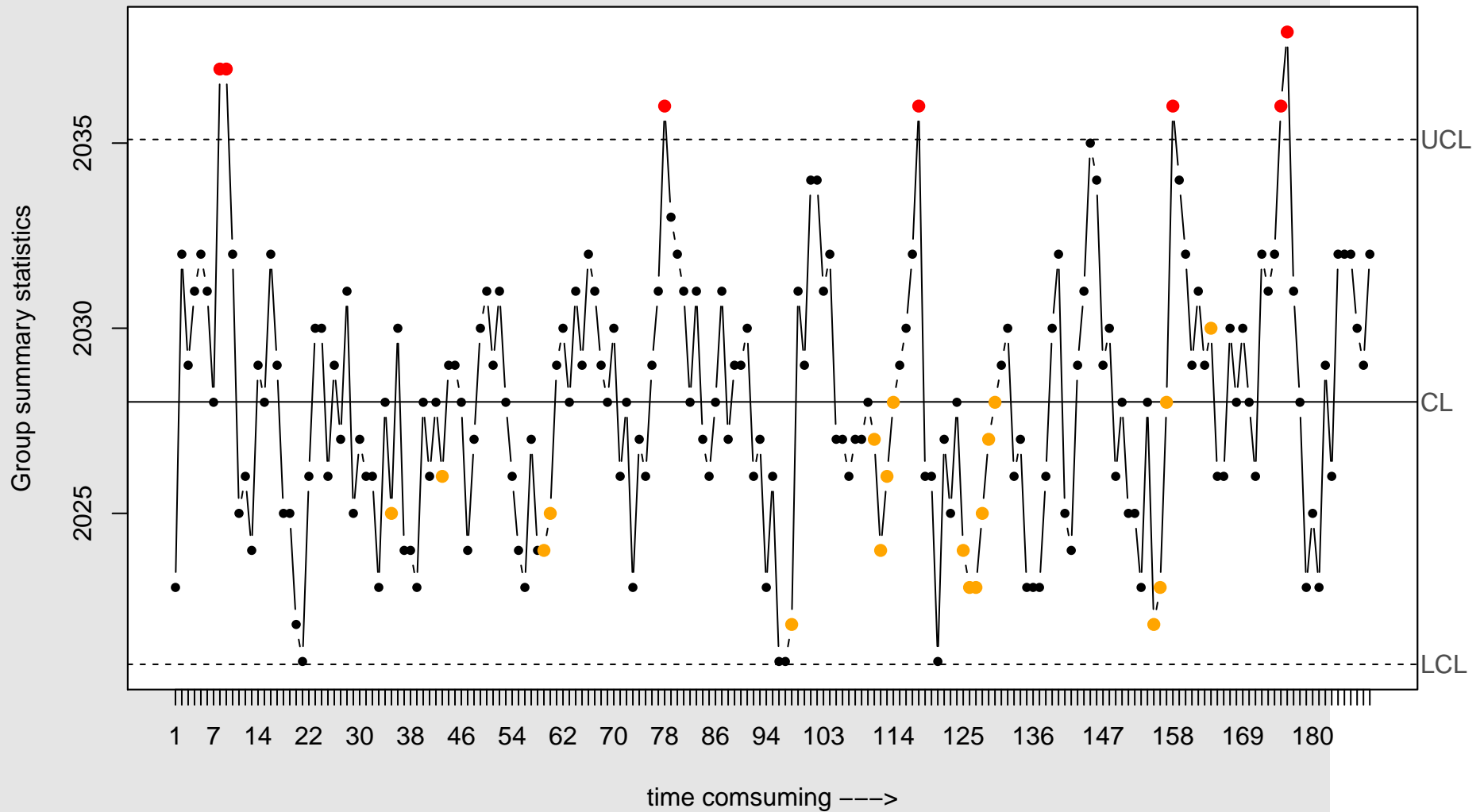
LCL = 2020.928

UCL = 2035.697

Number beyond limits = 5

Number violating runs = 13

159th column point of this product



Number of groups = 189

Center = 2028.011

StdDev = 2.362494

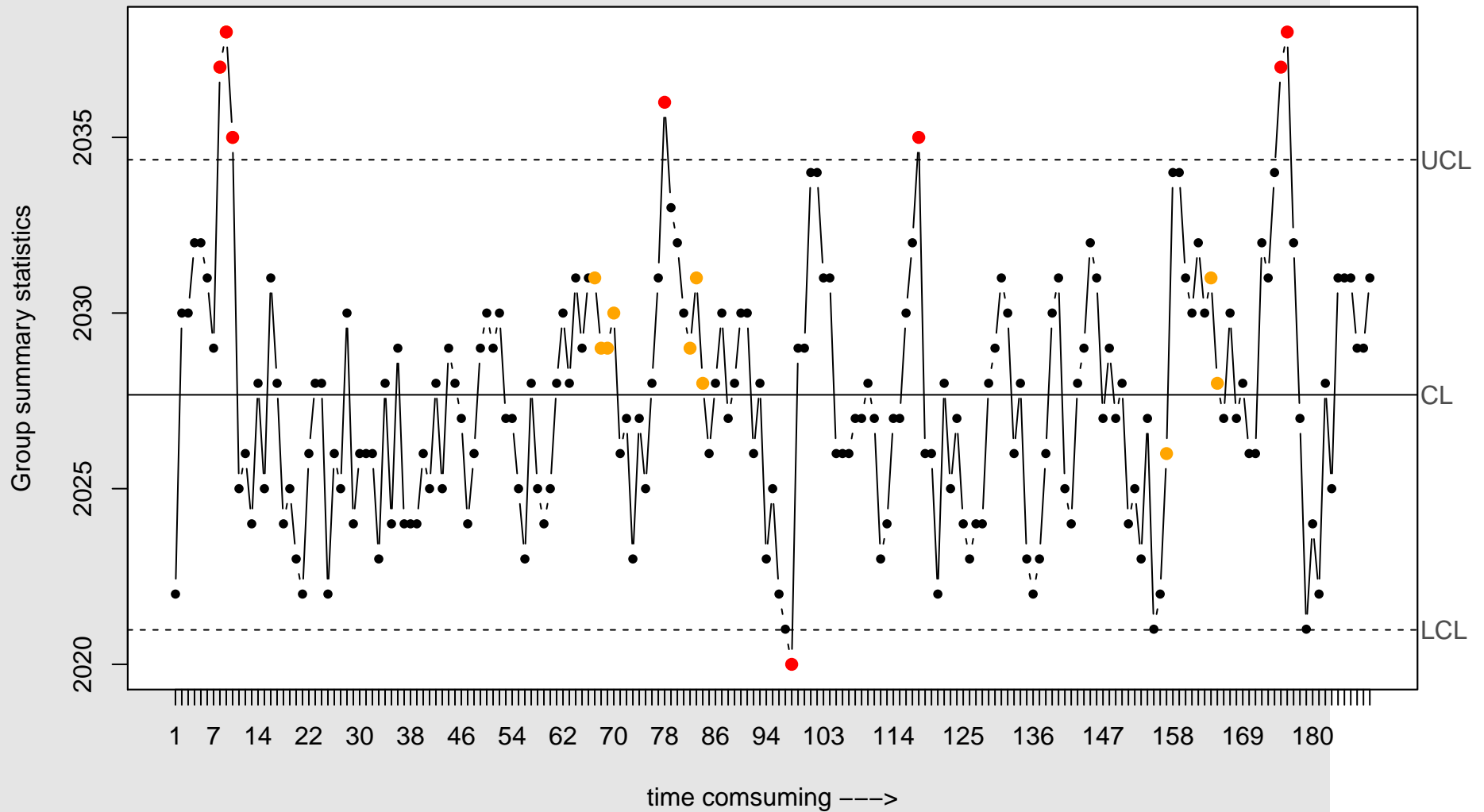
LCL = 2020.923

UCL = 2035.098

Number beyond limits = 7

Number violating runs = 19

160th column point of this product



Number of groups = 189

Center = 2027.672

StdDev = 2.230459

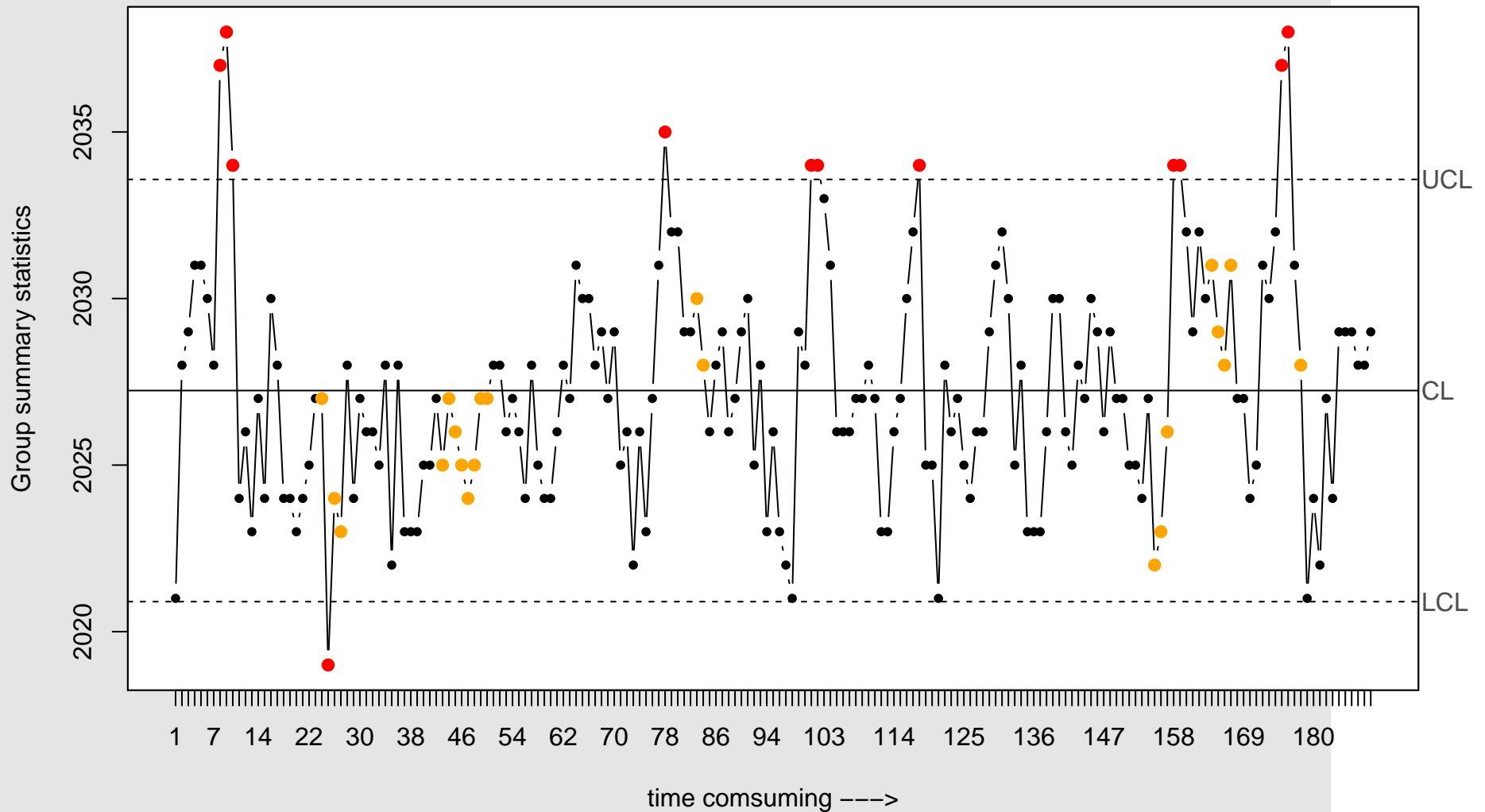
LCL = 2020.981

UCL = 2034.363

Number beyond limits = 8

Number violating runs = 13

161th column point of this product

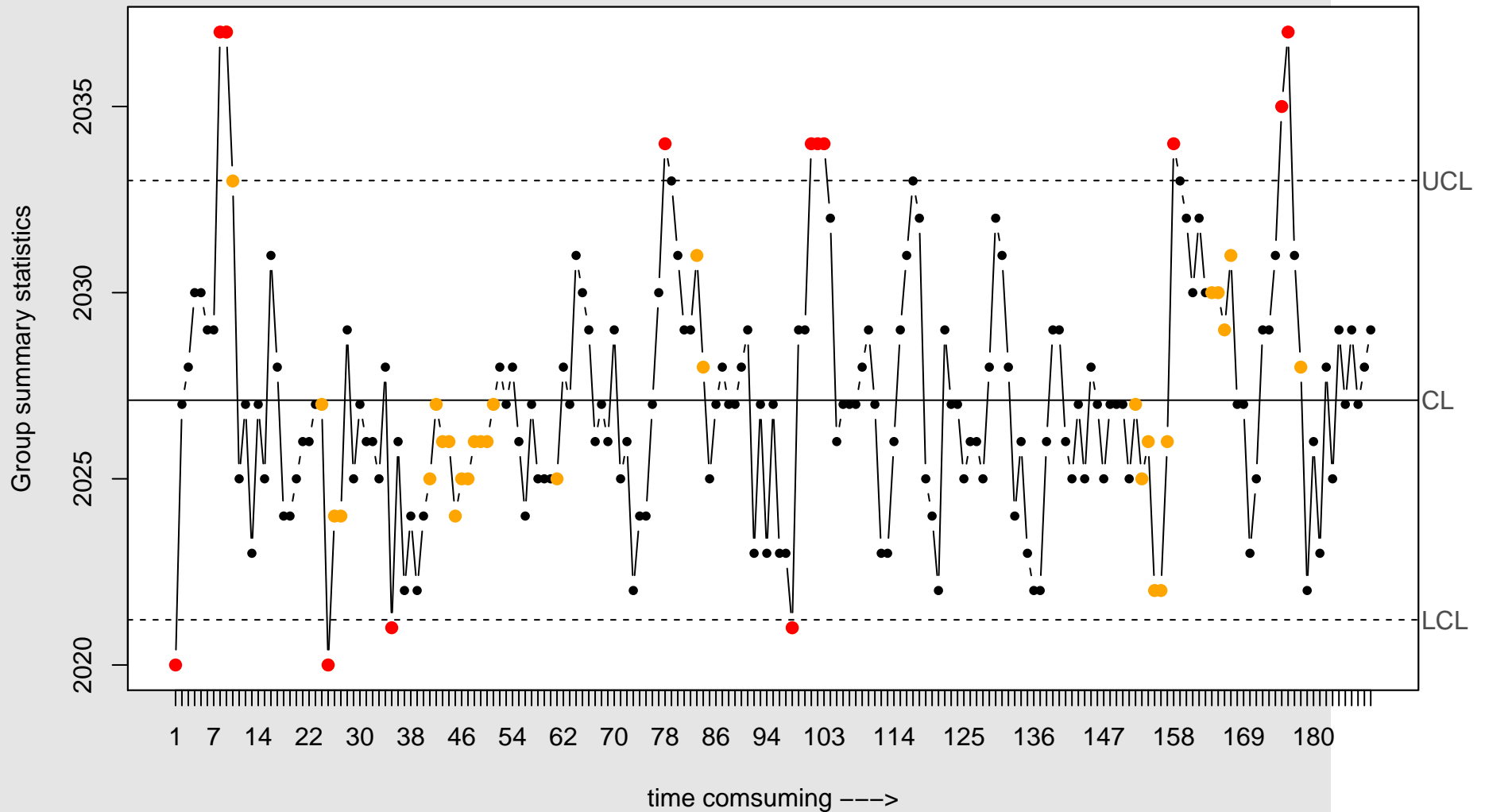


Number of groups = 189
Center = 2027.238
StdDev = 2.11257

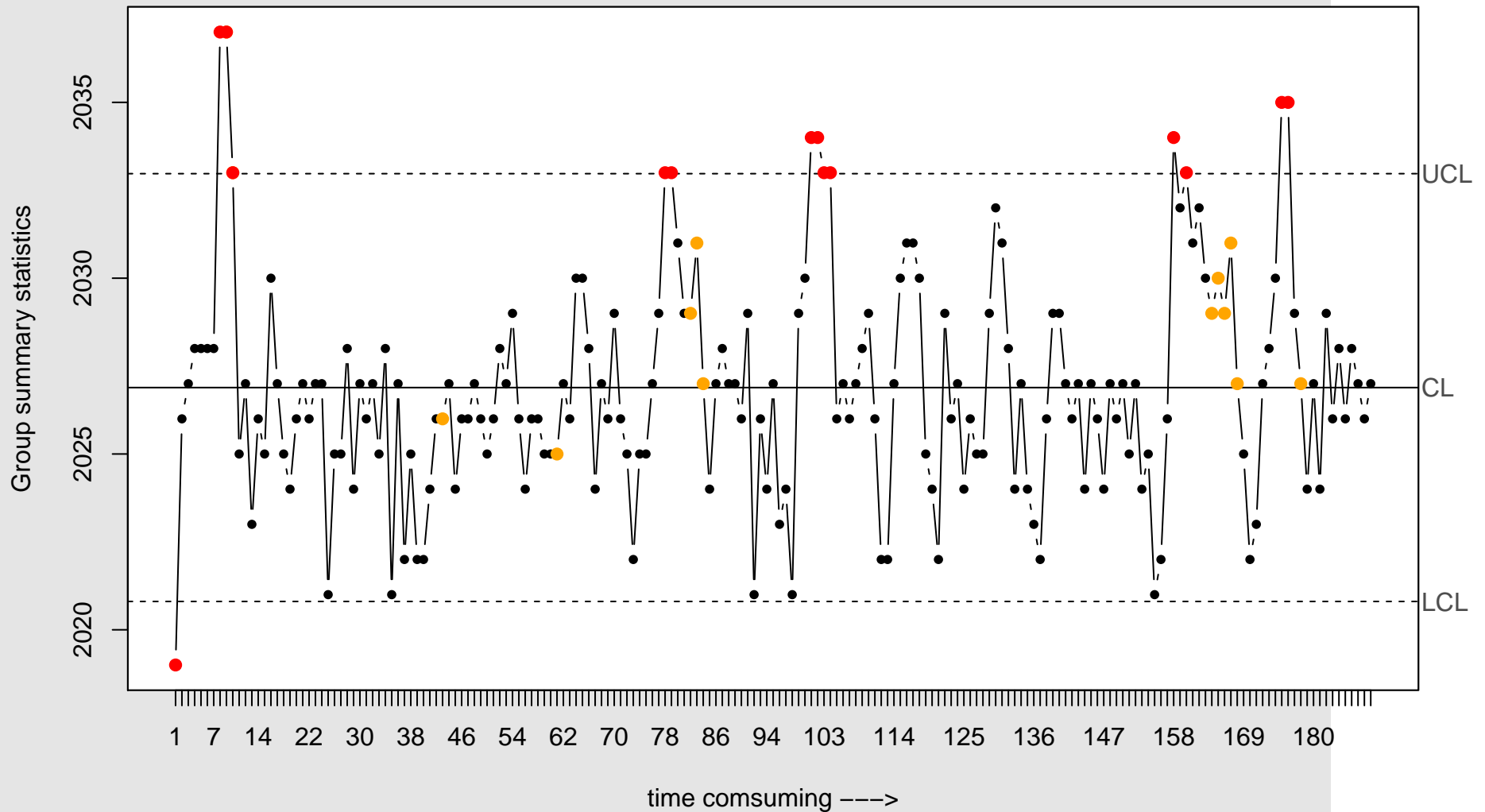
LCL = 2020.9
UCL = 2033.576

Number beyond limits = 12
Number violating runs = 25

162th column point of this product



163th column point of this product



Number of groups = 189

Center = 2026.889

StdDev = 2.02769

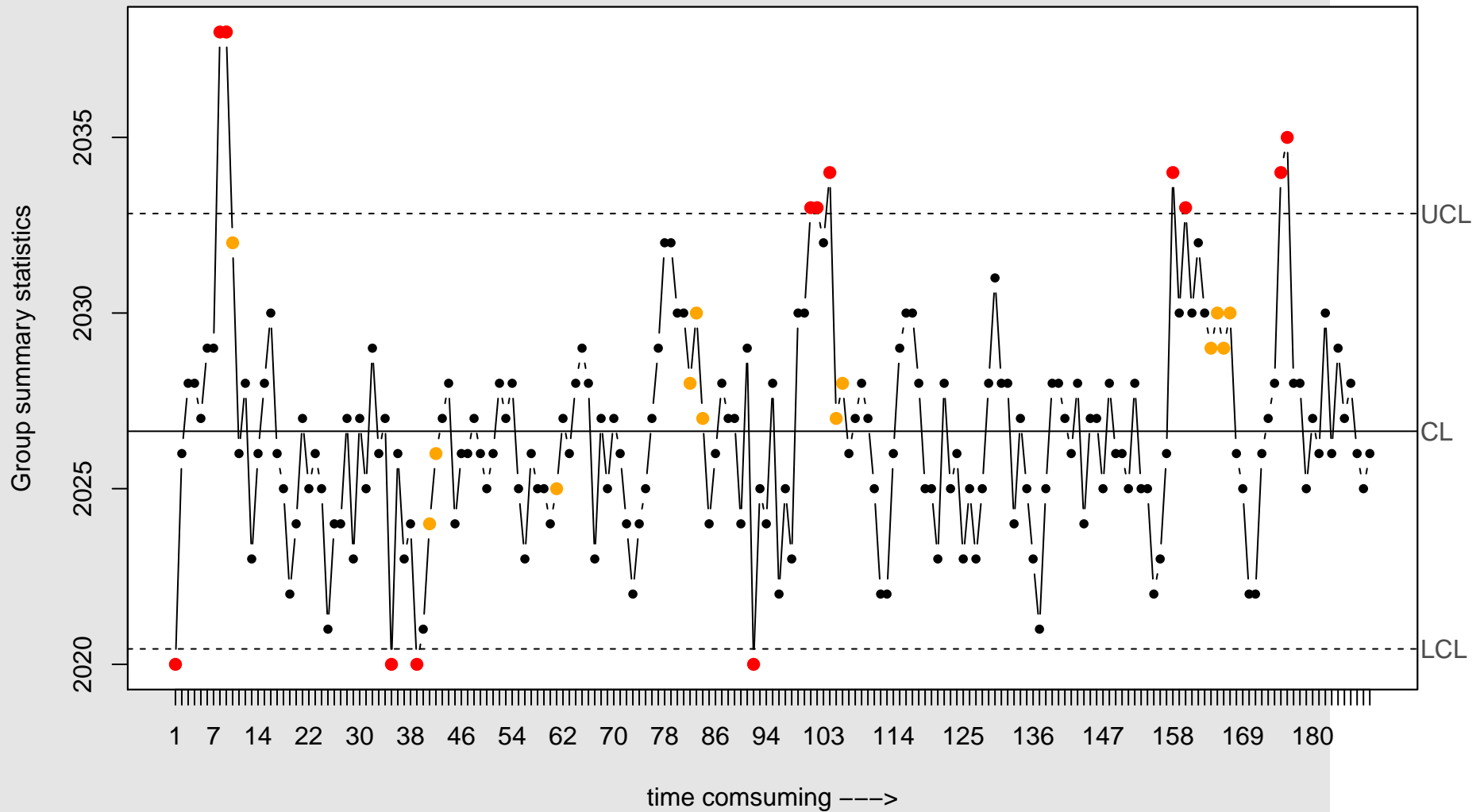
LCL = 2020.806

UCL = 2032.972

Number beyond limits = 14

Number violating runs = 13

164th column point of this product



Number of groups = 189

Center = 2026.635

StdDev = 2.065414

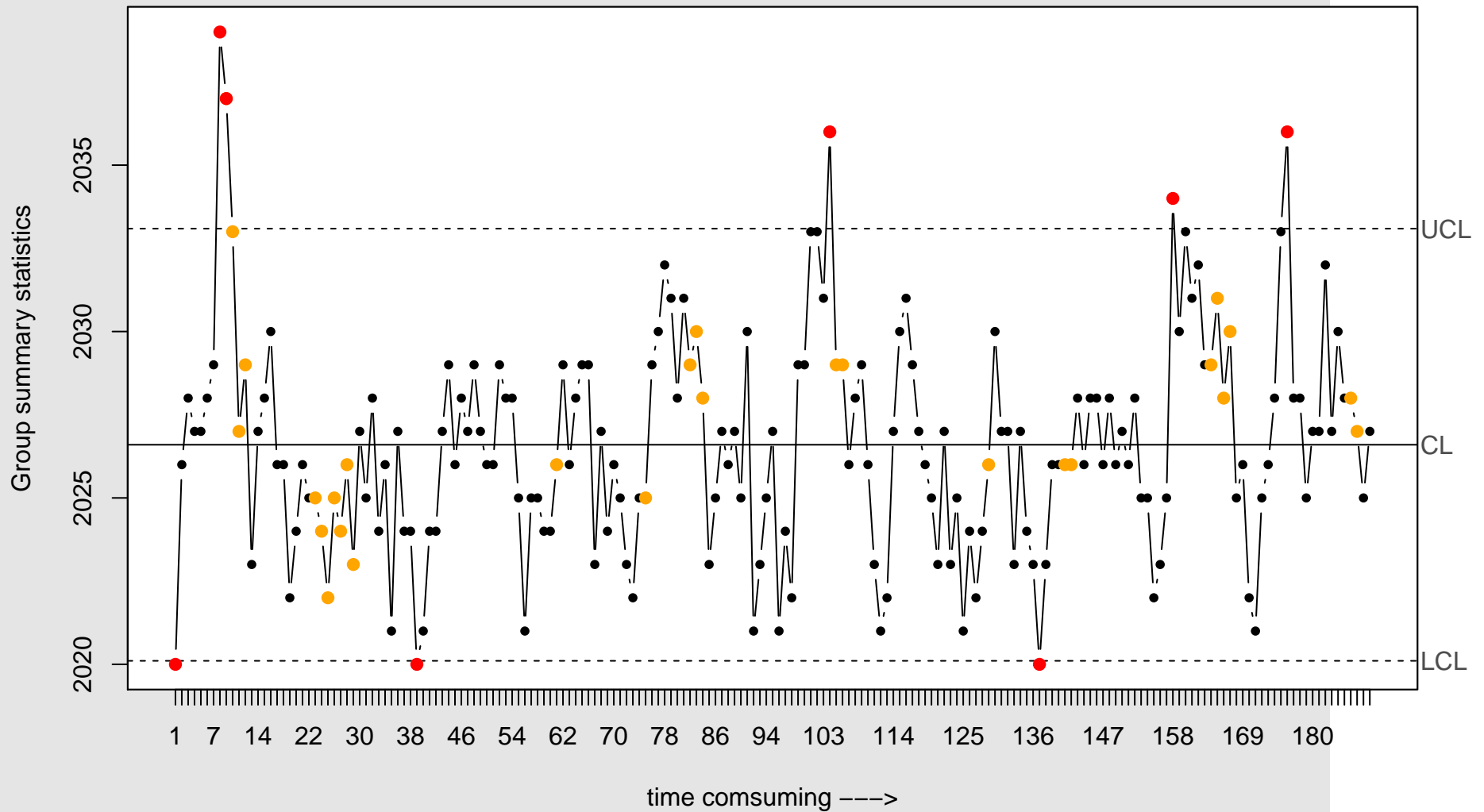
LCL = 2020.439

UCL = 2032.831

Number beyond limits = 13

Number violating runs = 14

165th column point of this product



Number of groups = 189

Center = 2026.598

StdDev = 2.164441

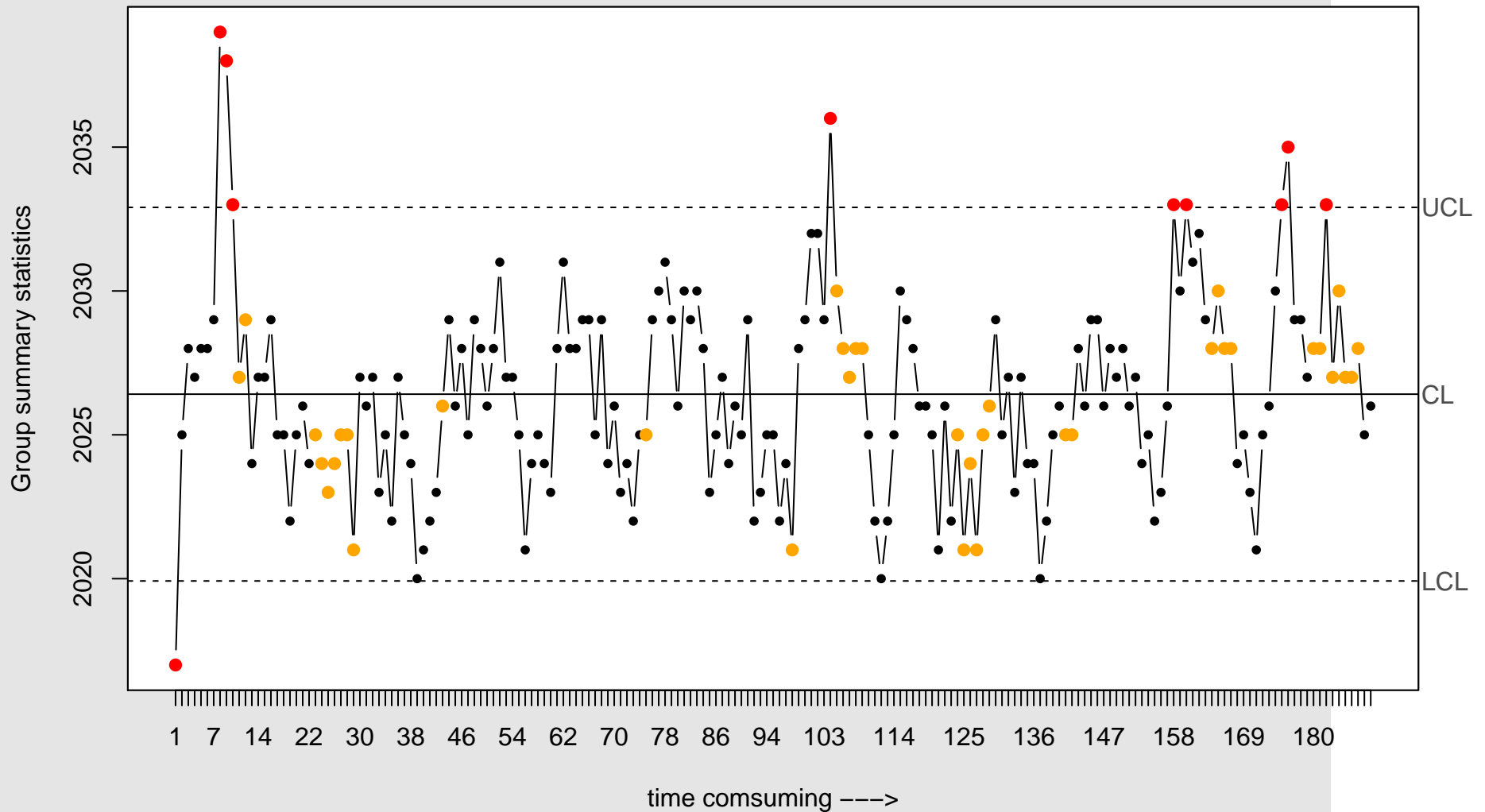
LCL = 2020.105

UCL = 2033.091

Number beyond limits = 8

Number violating runs = 27

166th column point of this product



Number of groups = 189

Center = 2026.413

StdDev = 2.164441

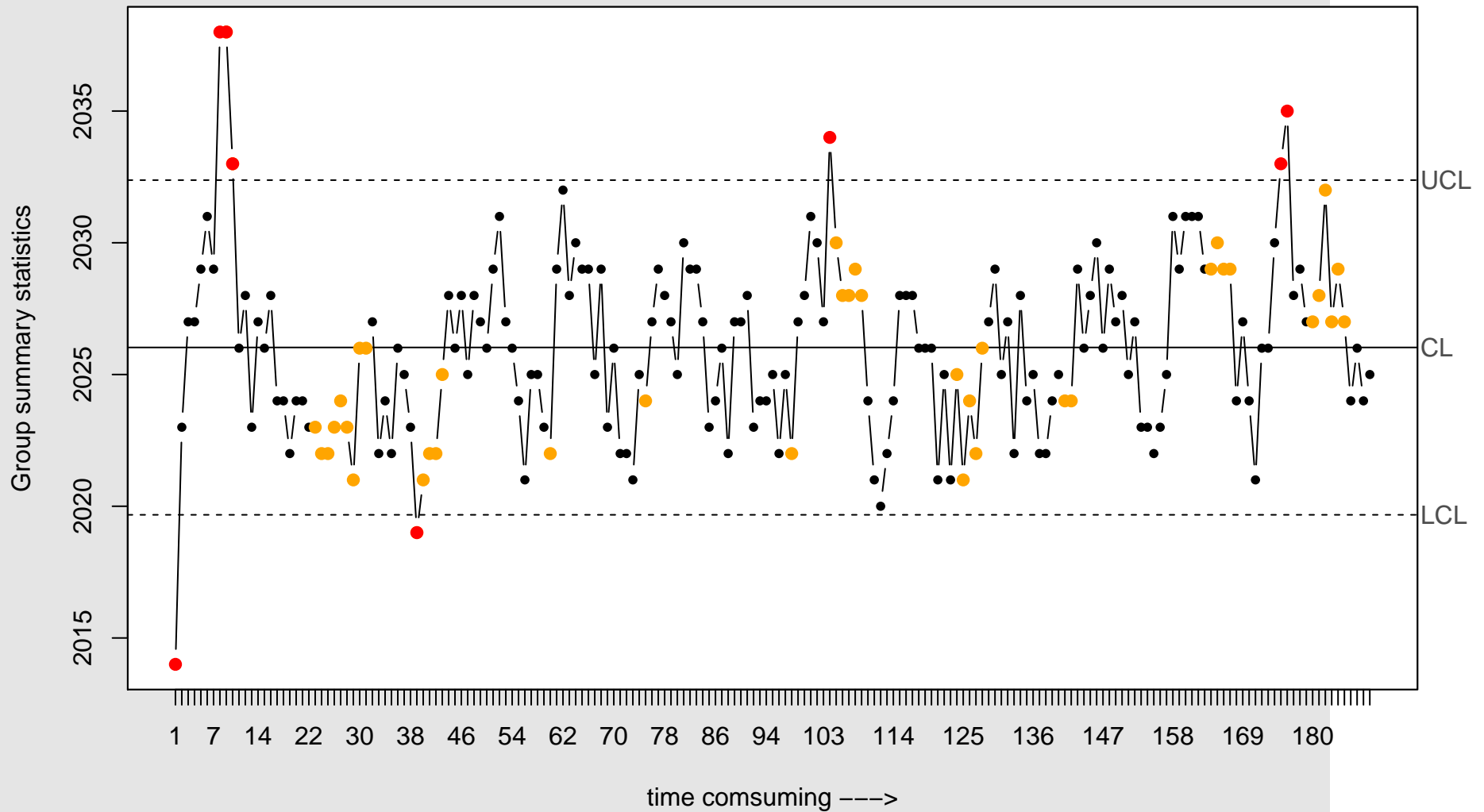
LCL = 2019.919

UCL = 2032.906

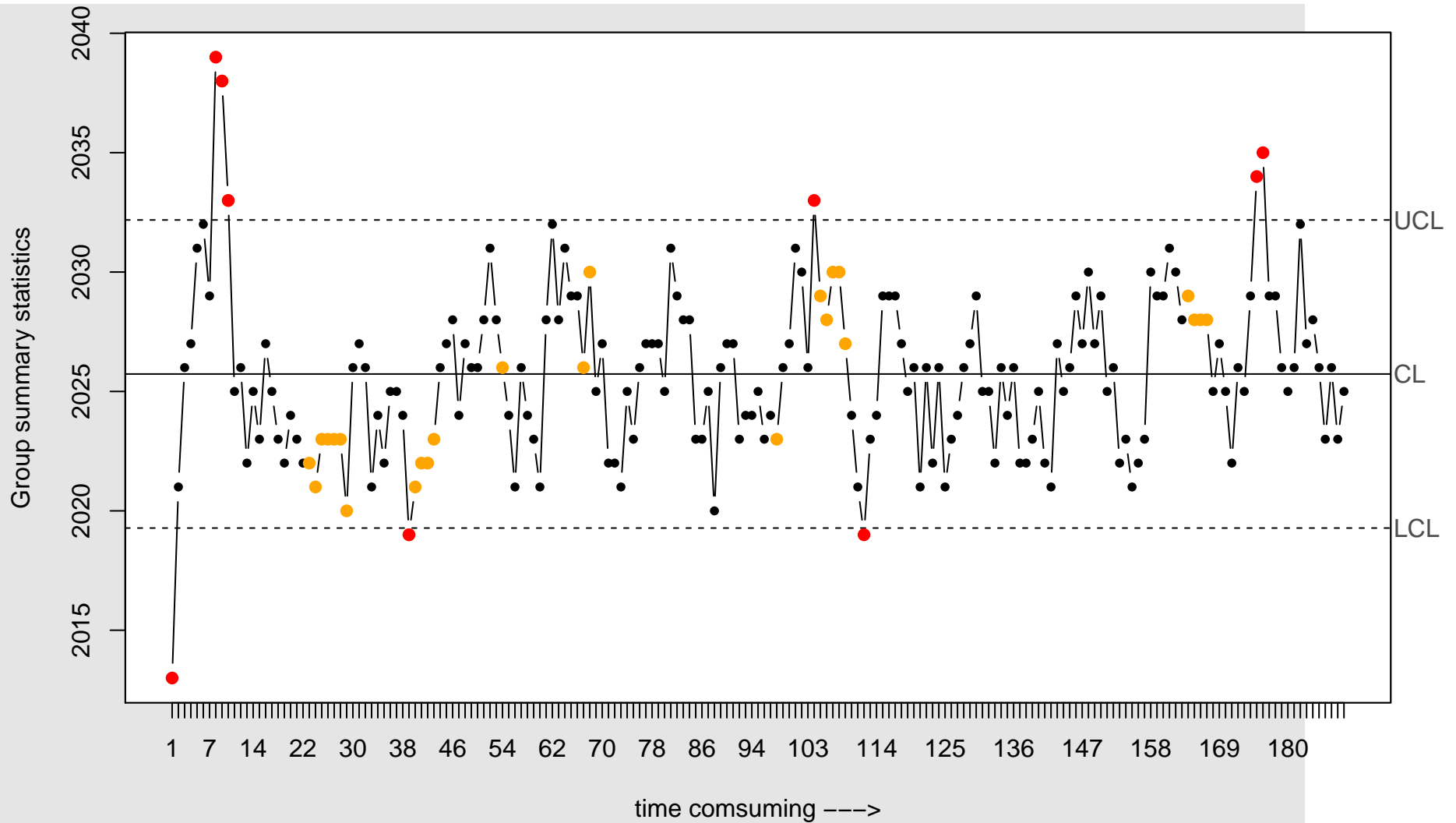
Number beyond limits = 10

Number violating runs = 39

167th column point of this product



168th column point of this product



Number of groups = 189

Center = 2025.73

StdDev = 2.150294

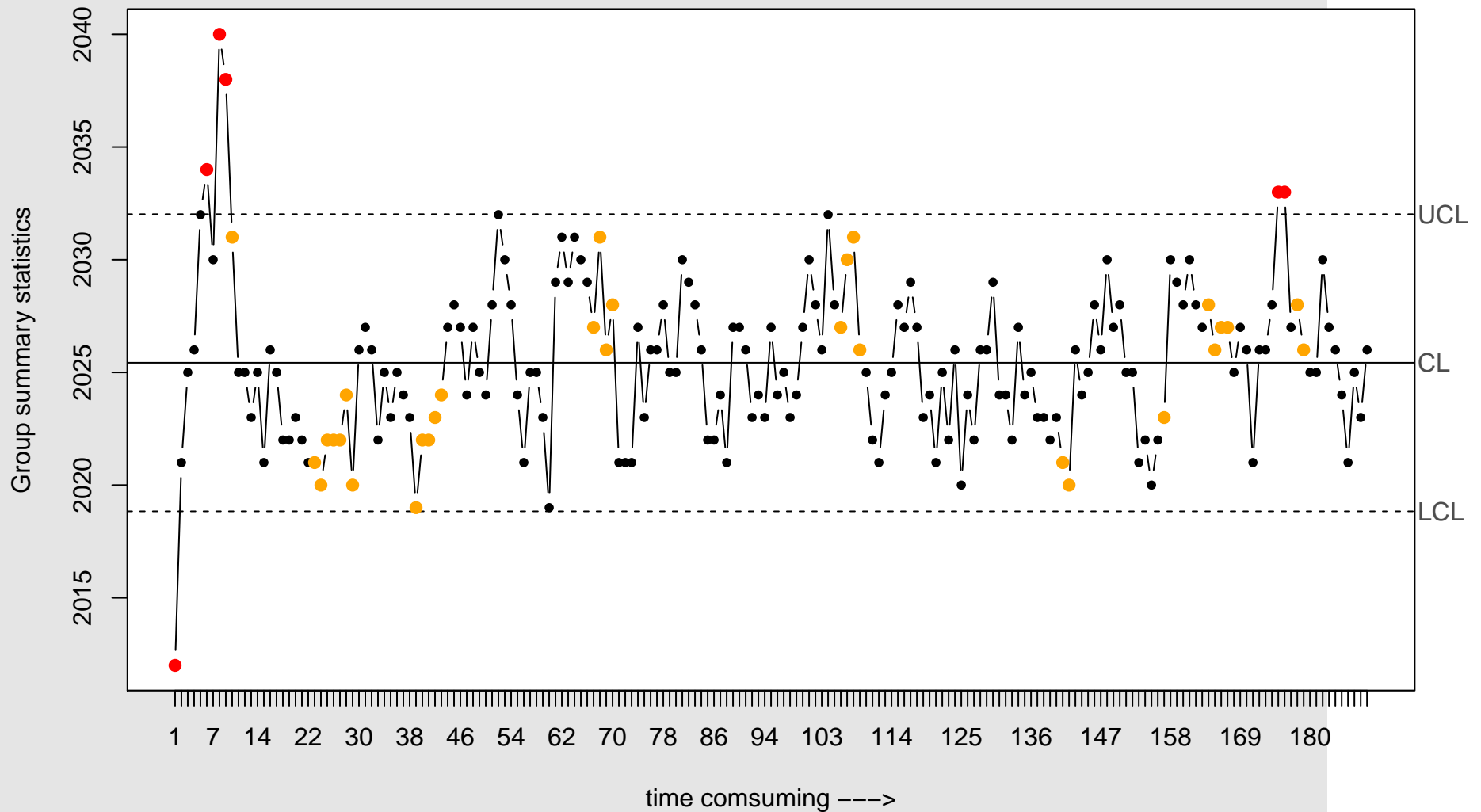
LCL = 2019.279

UCL = 2032.181

Number beyond limits = 9

Number violating runs = 27

169th column point of this product

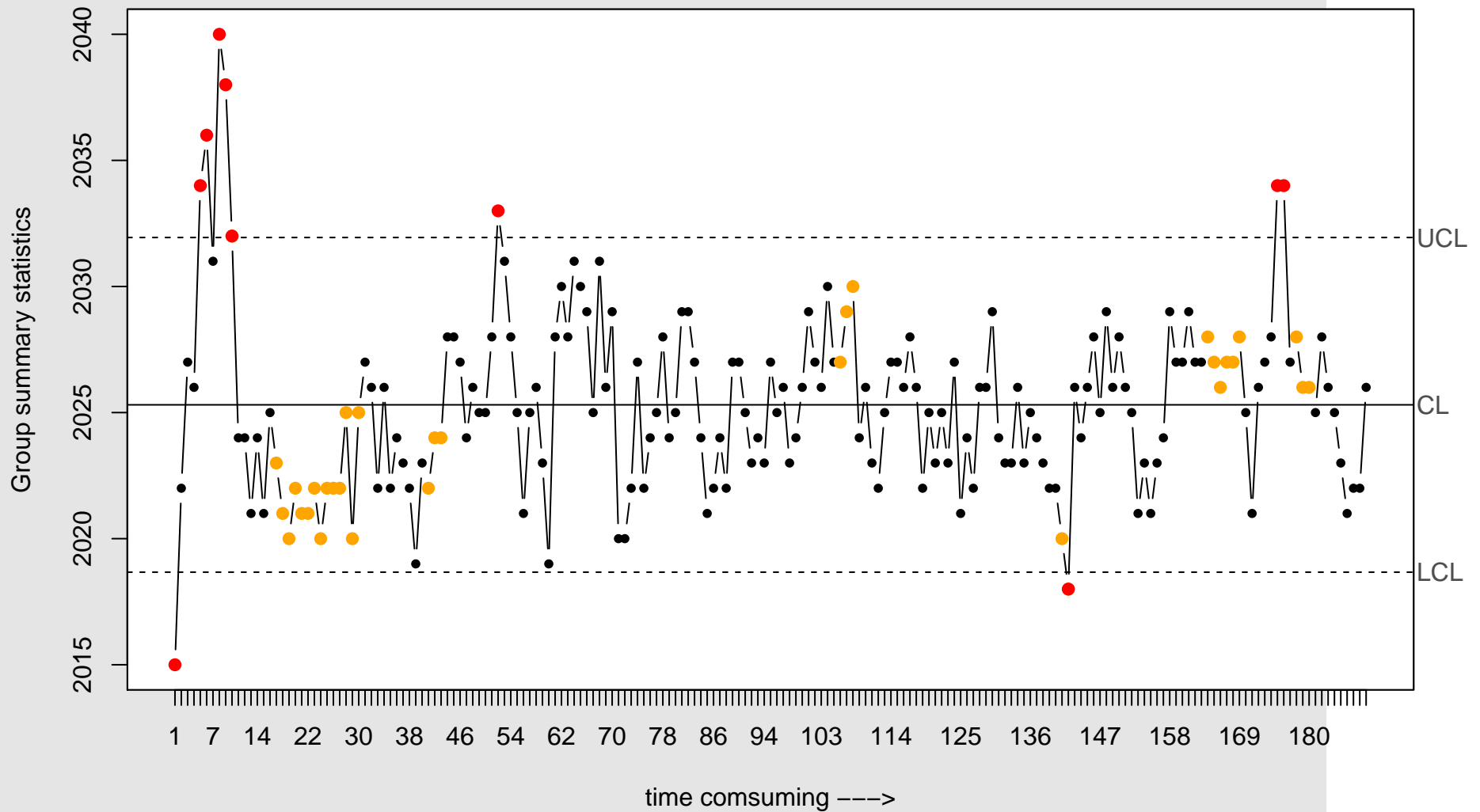


Number of groups = 189
 Center = 2025.429
 StdDev = 2.19745

LCL = 2018.836
 UCL = 2032.021

Number beyond limits = 6
 Number violating runs = 30

170th column point of this product



Number of groups = 189

Center = 2025.307

StdDev = 2.211596

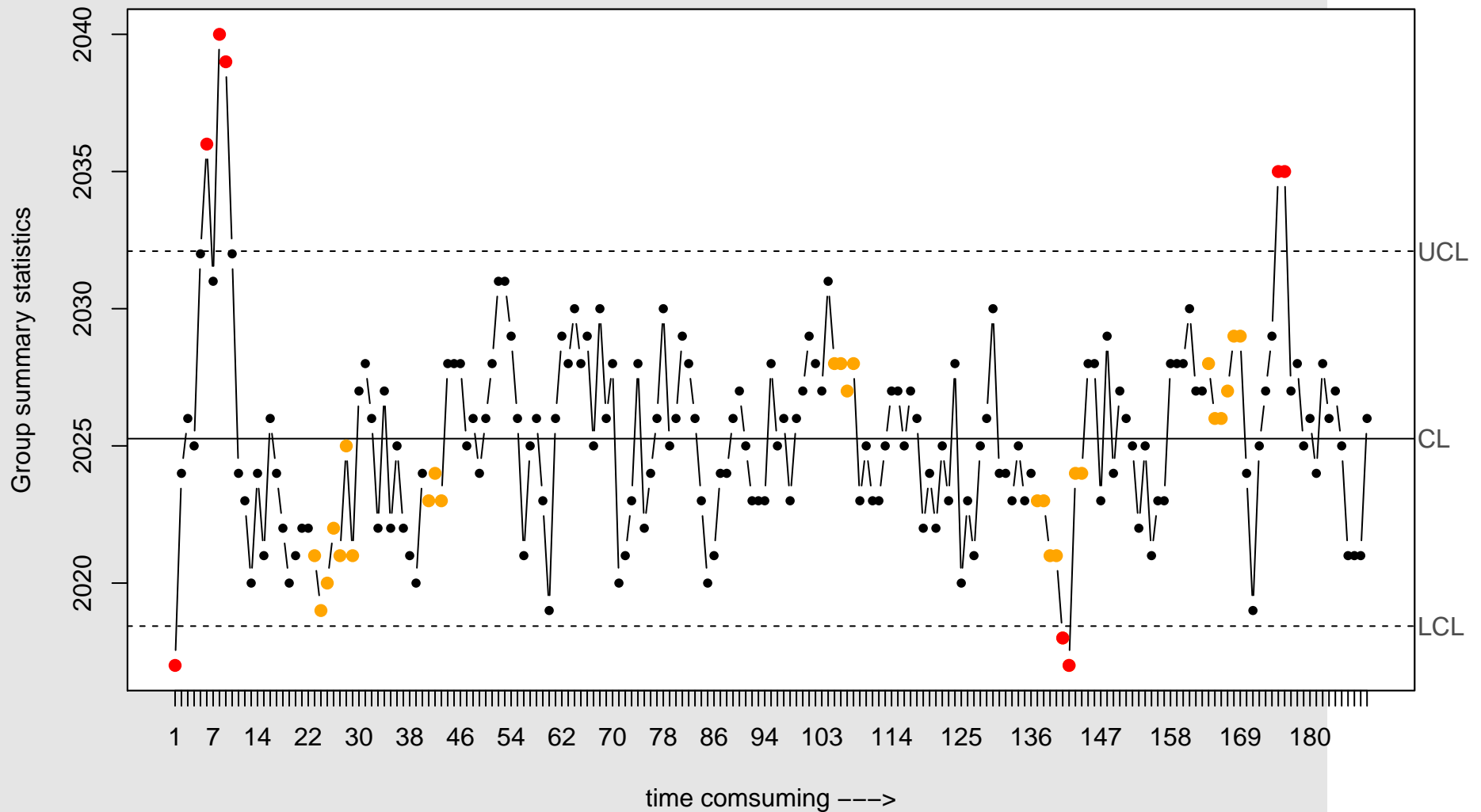
LCL = 2018.672

UCL = 2031.942

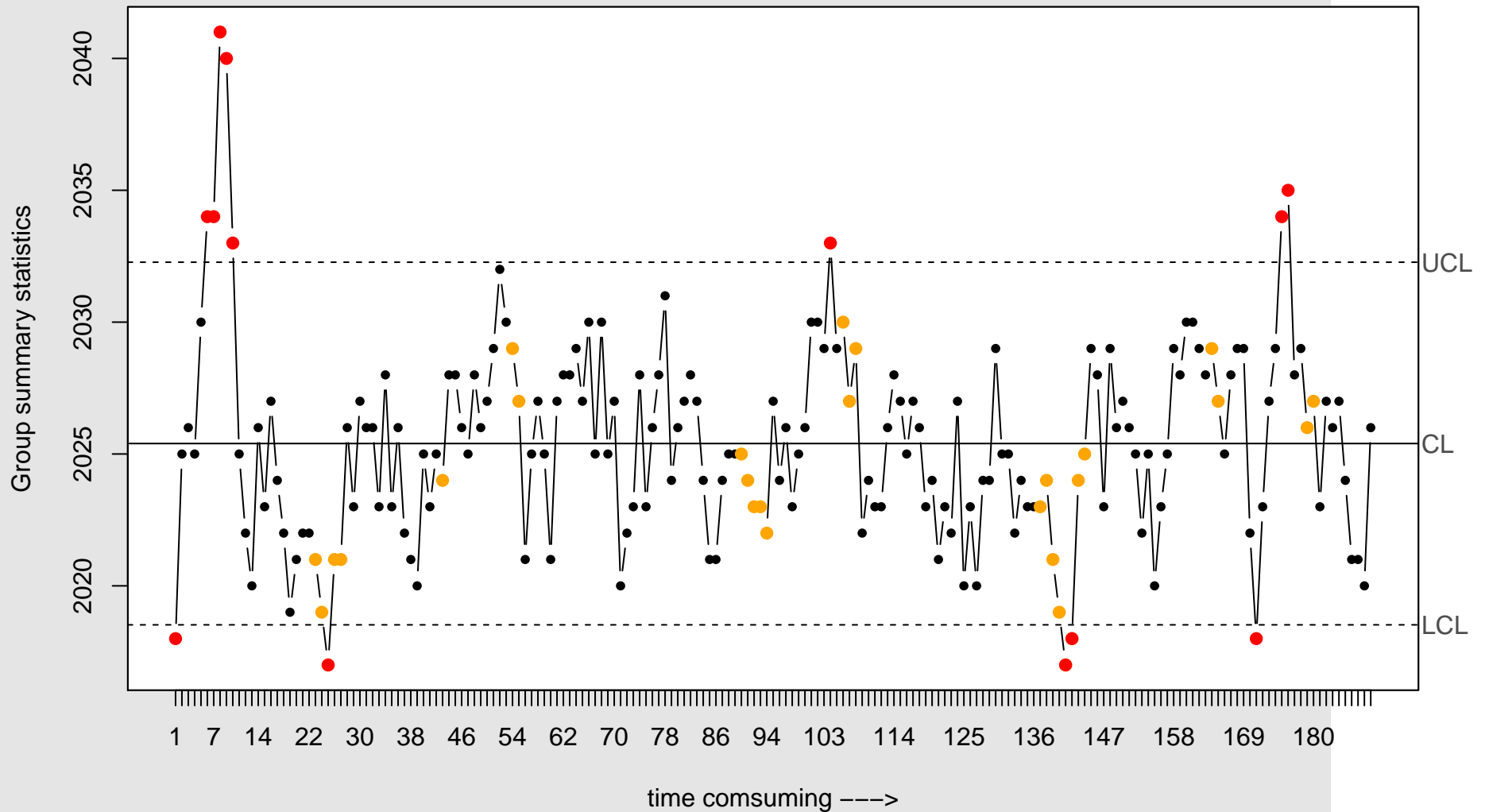
Number beyond limits = 10

Number violating runs = 33

171th column point of this product



172th column point of this product



Number of groups = 189

Center = 2025.397

StdDev = 2.291761

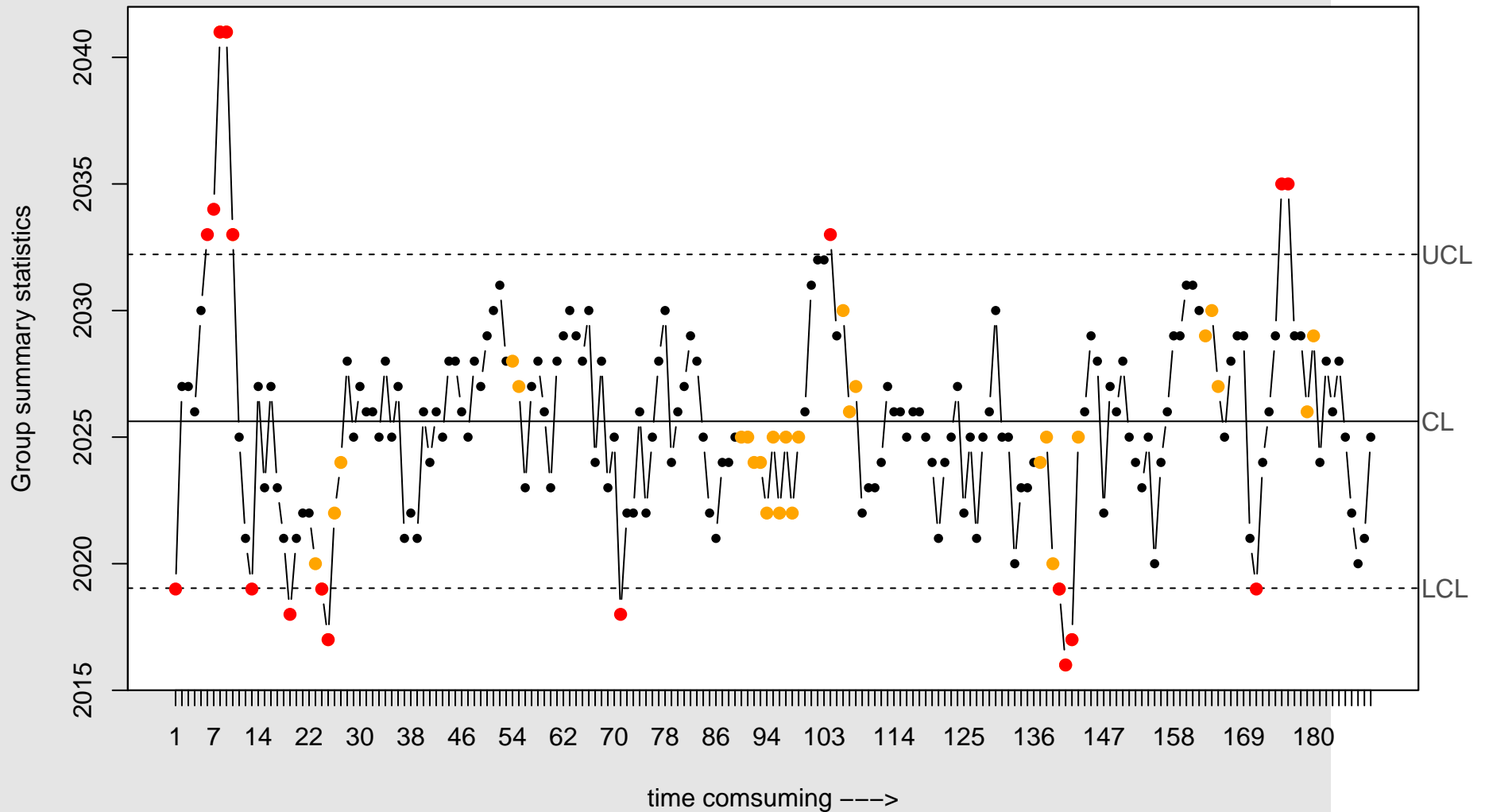
LCL = 2018.522

UCL = 2032.272

Number beyond limits = 13

Number violating runs = 28

173th column point of this product

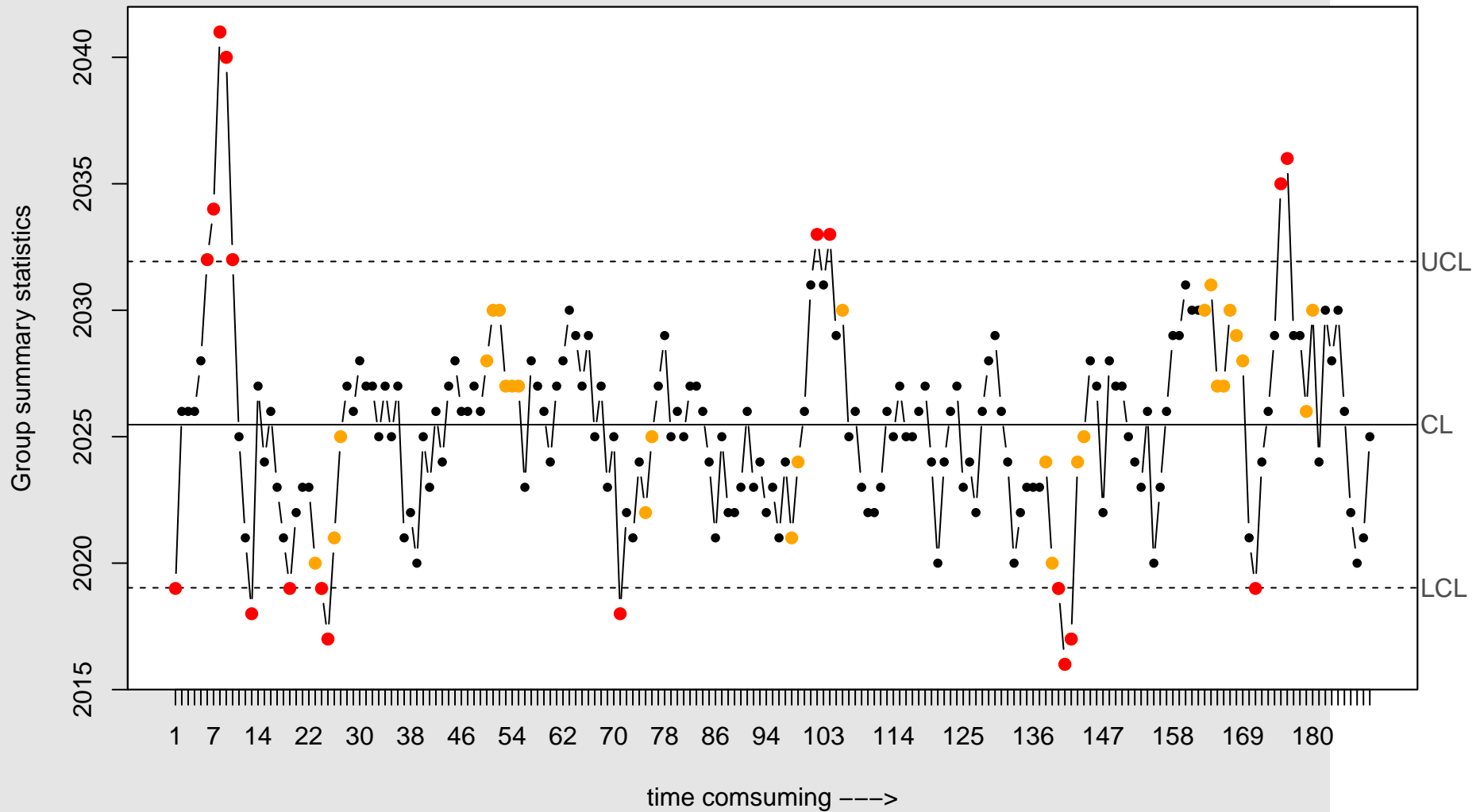


Number of groups = 189
Center = 2025.624
StdDev = 2.19745

LCL = 2019.032
UCL = 2032.217

Number beyond limits = 18
Number violating runs = 35

174th column point of this product

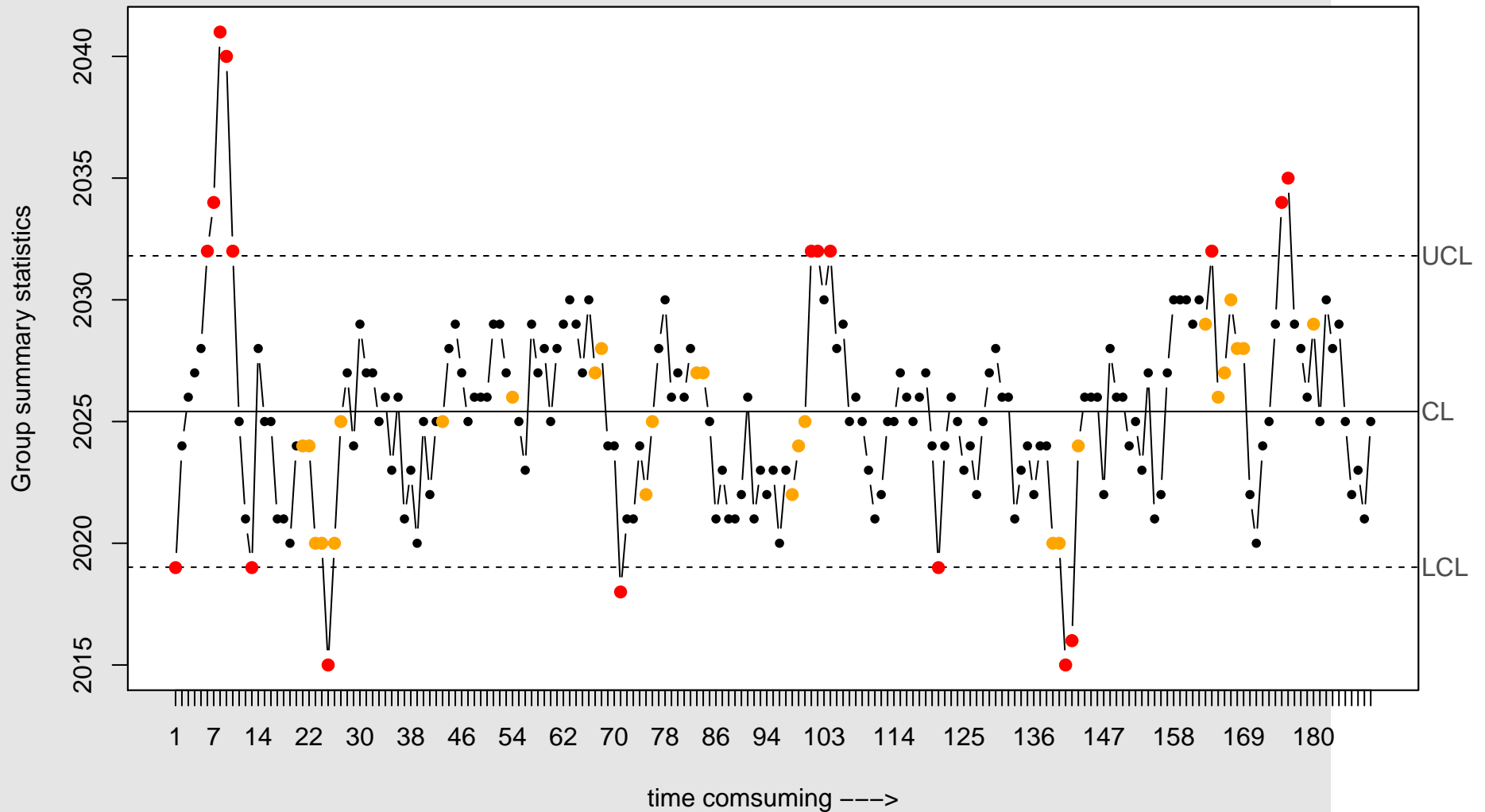


Number of groups = 189
 Center = 2025.476
 StdDev = 2.150294

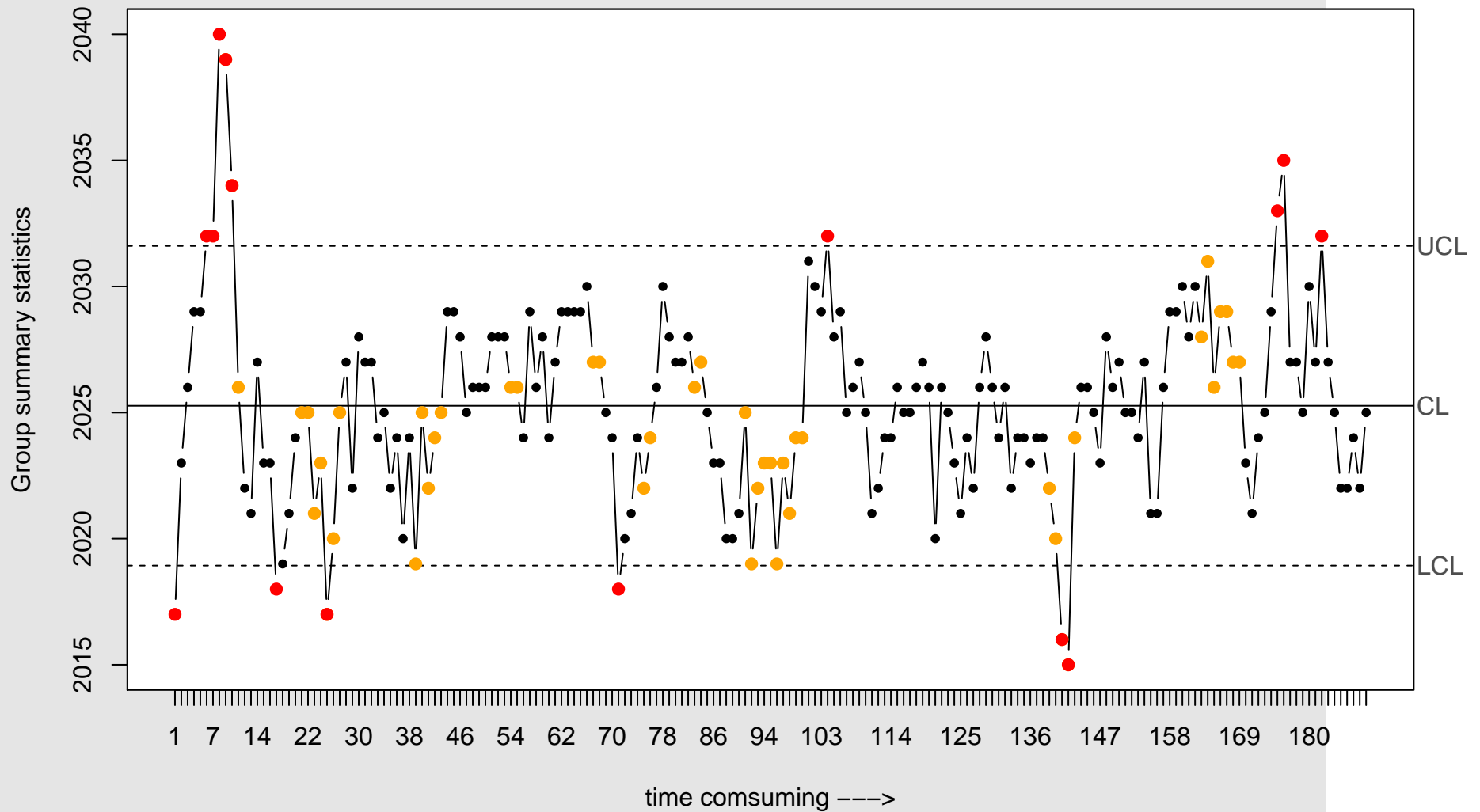
LCL = 2019.025
 UCL = 2031.927

Number beyond limits = 19
 Number violating runs = 35

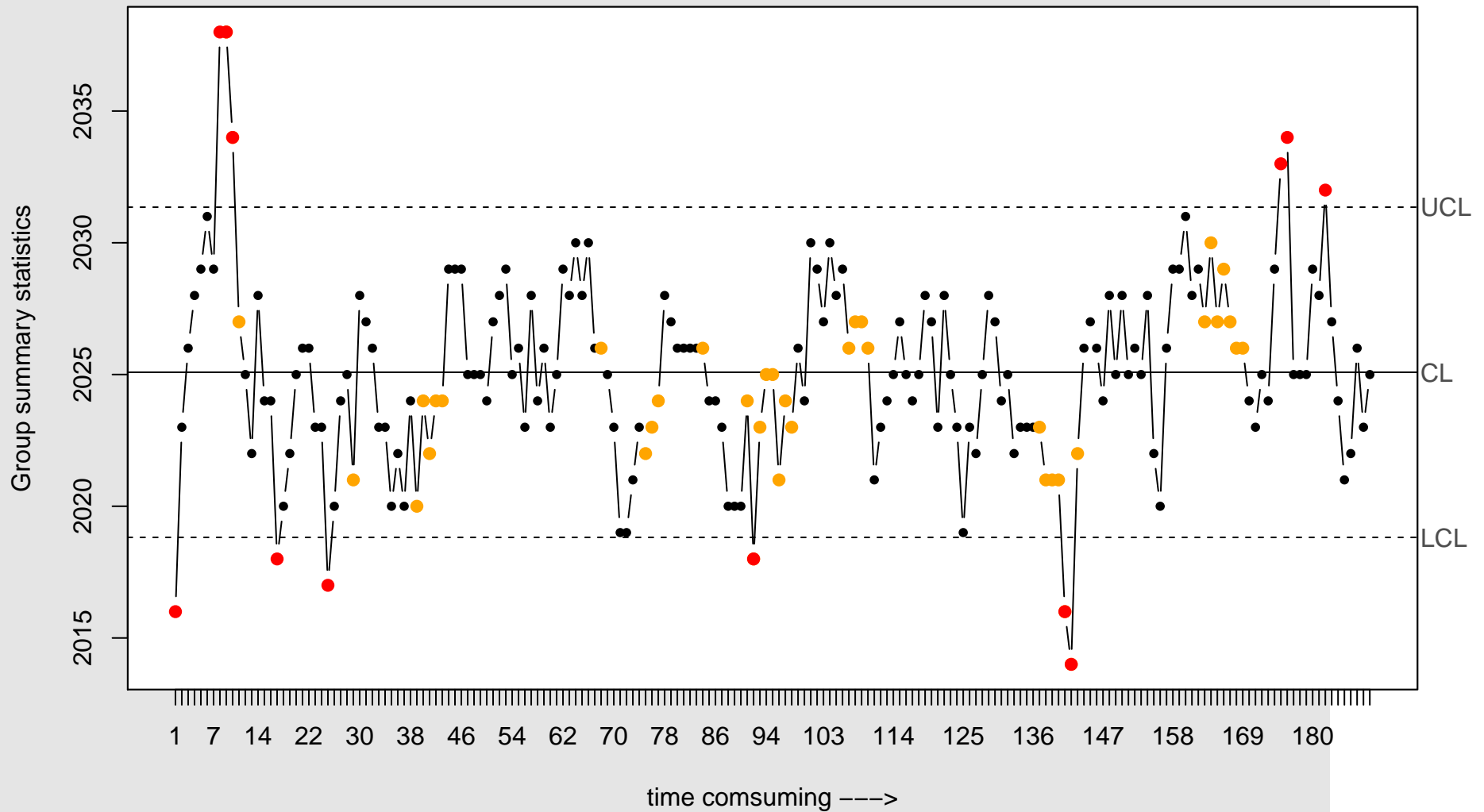
175th column point of this product



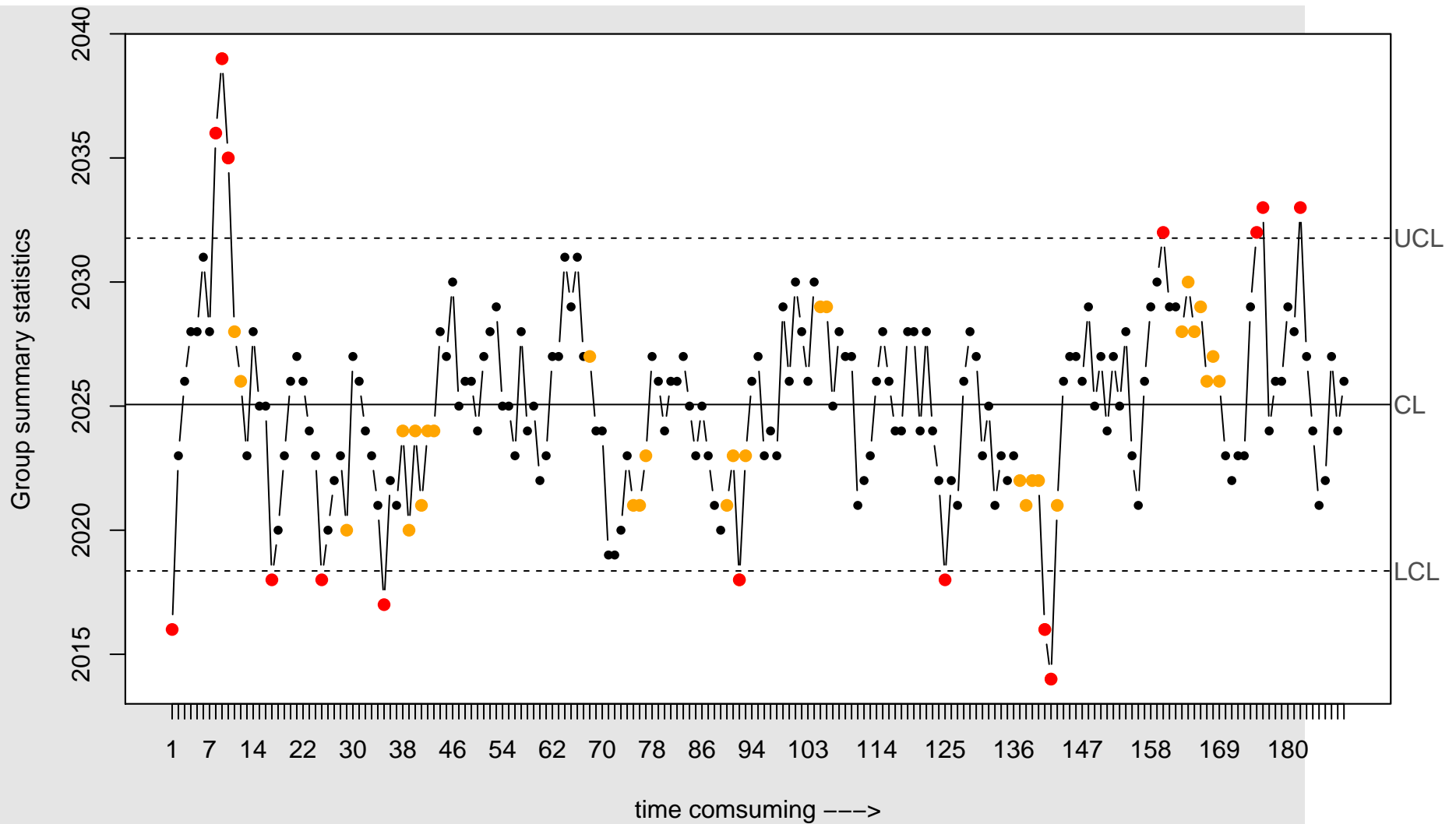
176th column point of this product



177th column point of this product



178th column point of this product



Number of groups = 189

Center = 2025.063

StdDev = 2.235174

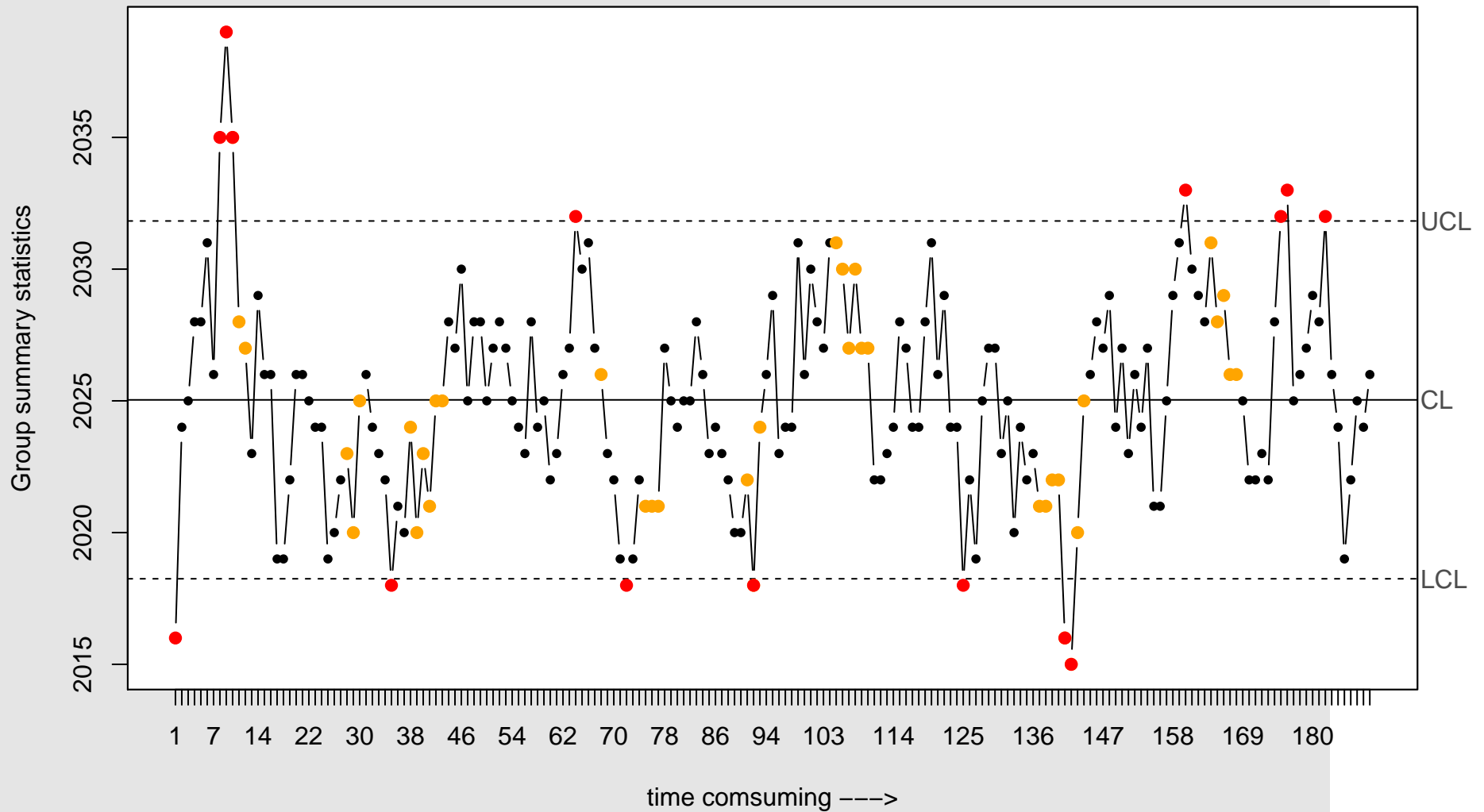
LCL = 2018.358

UCL = 2031.769

Number beyond limits = 15

Number violating runs = 35

179th column point of this product



Number of groups = 189

Center = 2025.037

StdDev = 2.263468

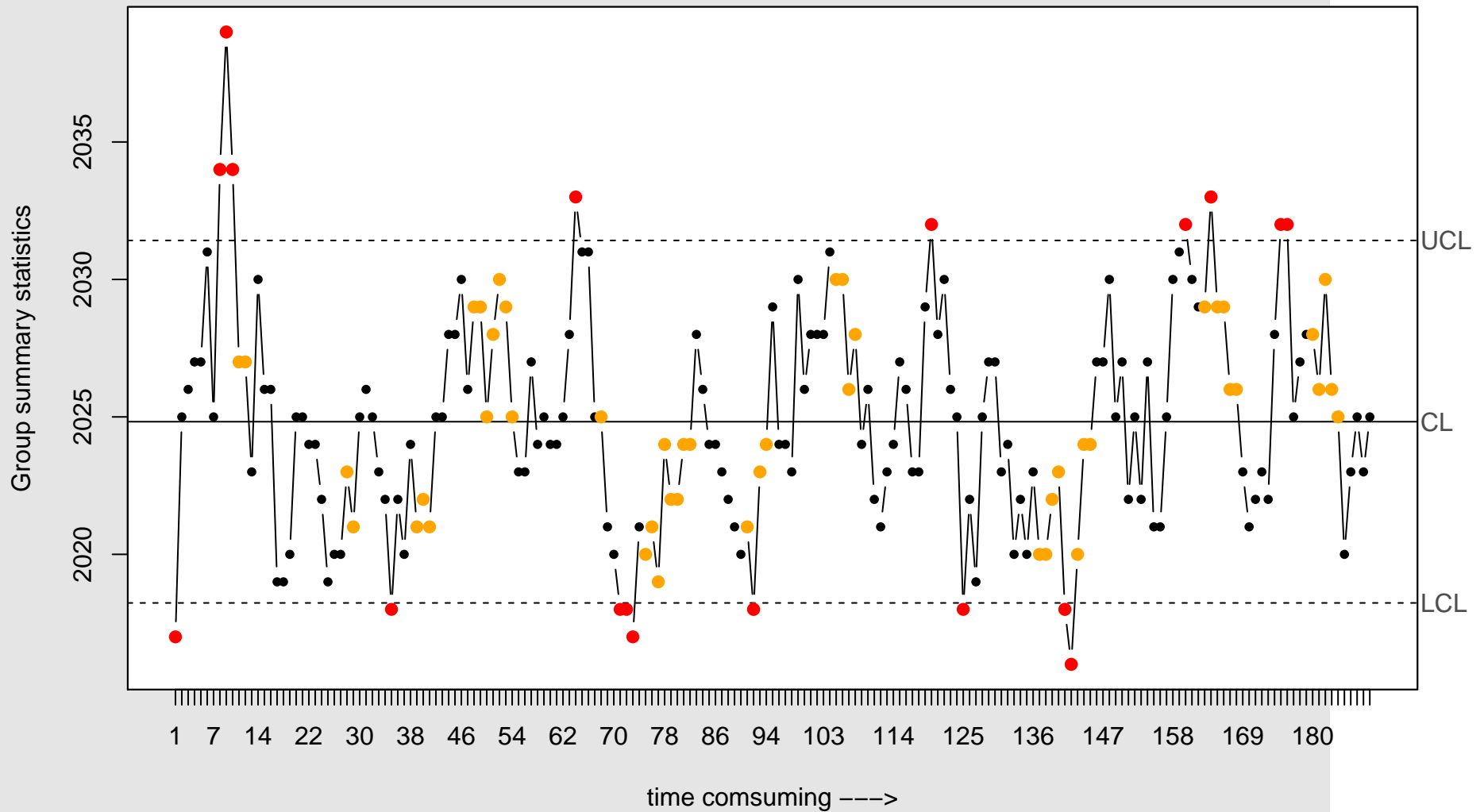
LCL = 2018.247

UCL = 2031.827

Number beyond limits = 15

Number violating runs = 38

180th column point of this product



Number of groups = 189

Center = 2024.825

StdDev = 2.19745

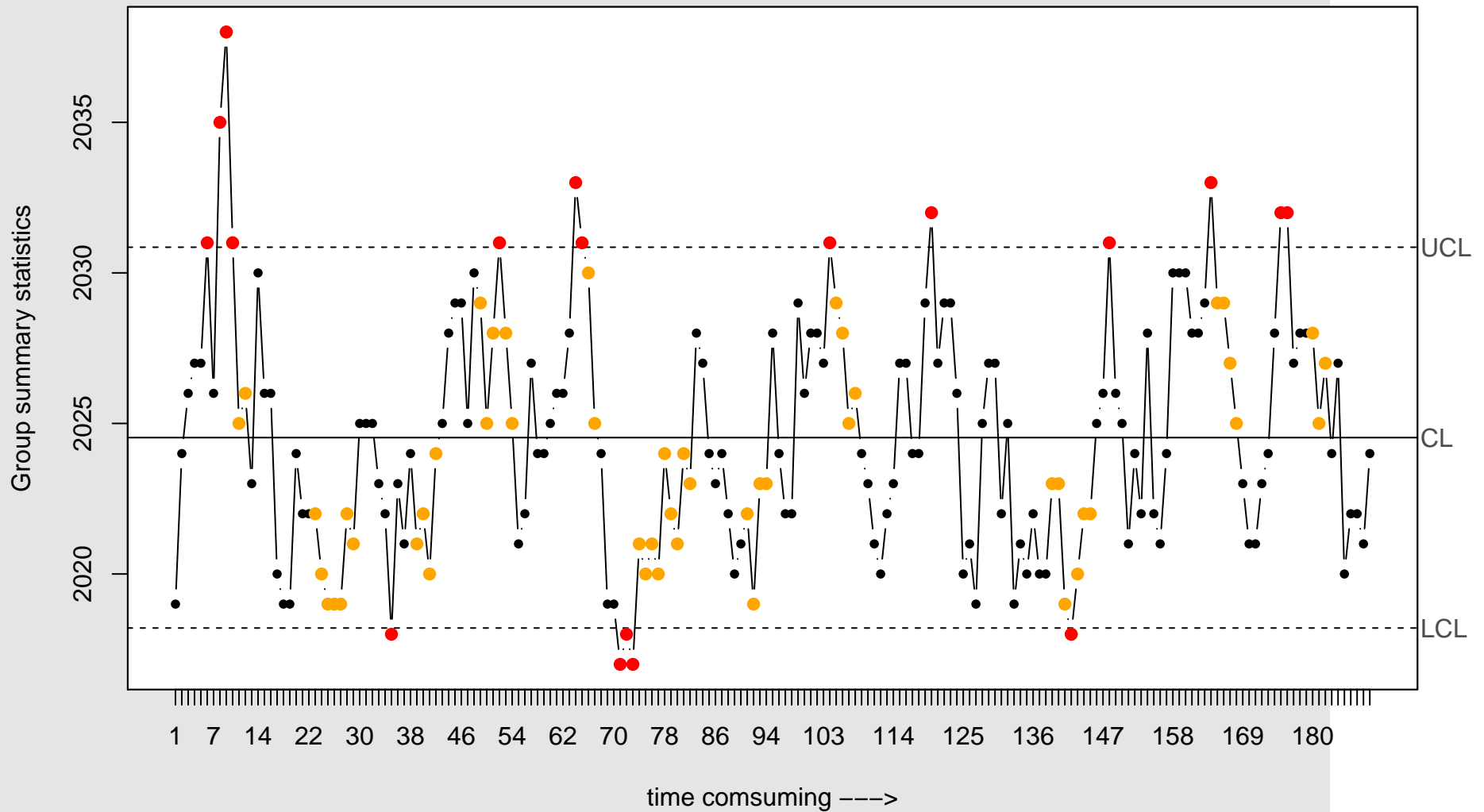
LCL = 2018.233

UCL = 2031.418

Number beyond limits = 18

Number violating runs = 54

181th column point of this product



Number of groups = 189

Center = 2024.529

StdDev = 2.107854

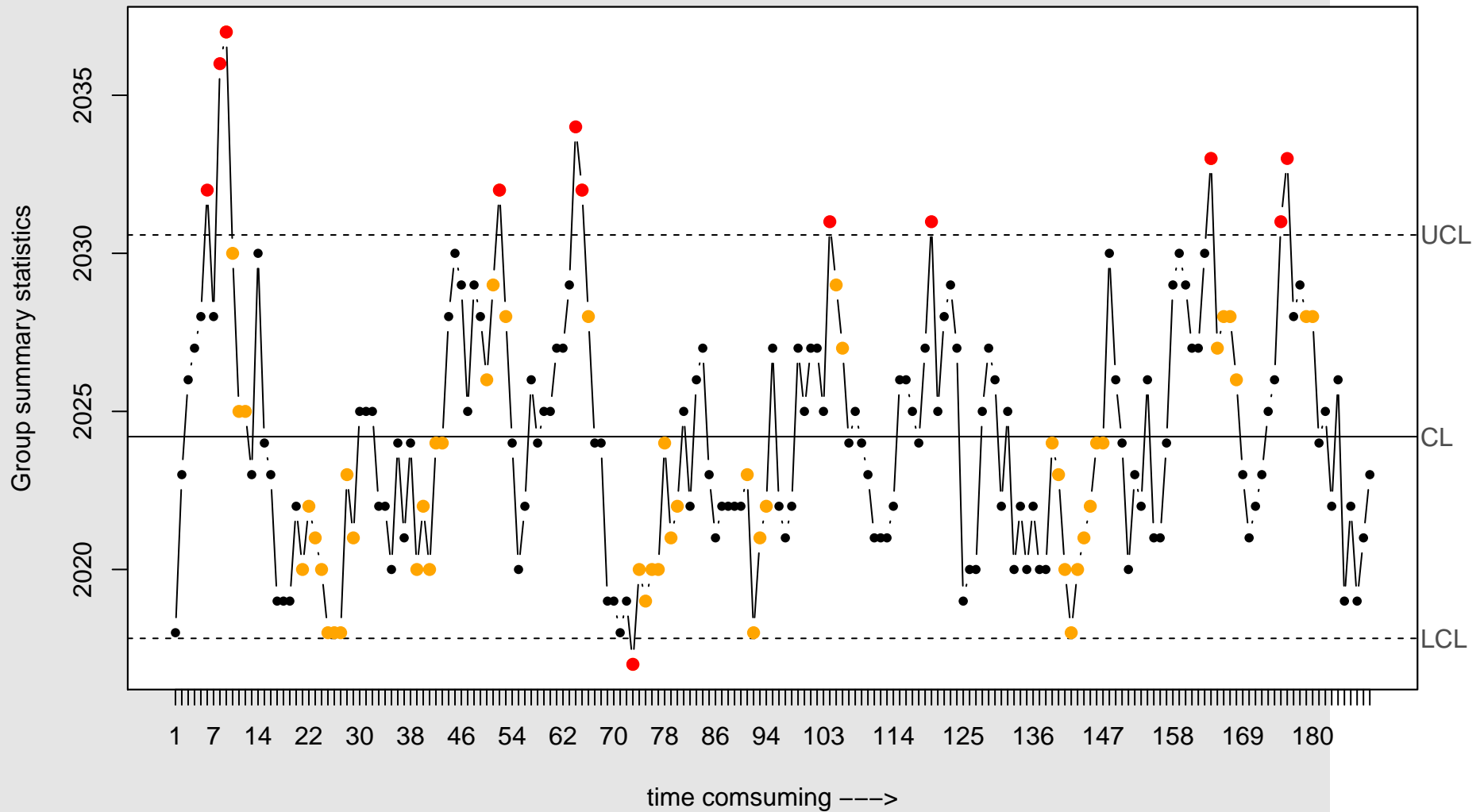
LCL = 2018.206

UCL = 2030.853

Number beyond limits = 18

Number violating runs = 55

182th column point of this product



Number of groups = 189

Center = 2024.201

StdDev = 2.126716

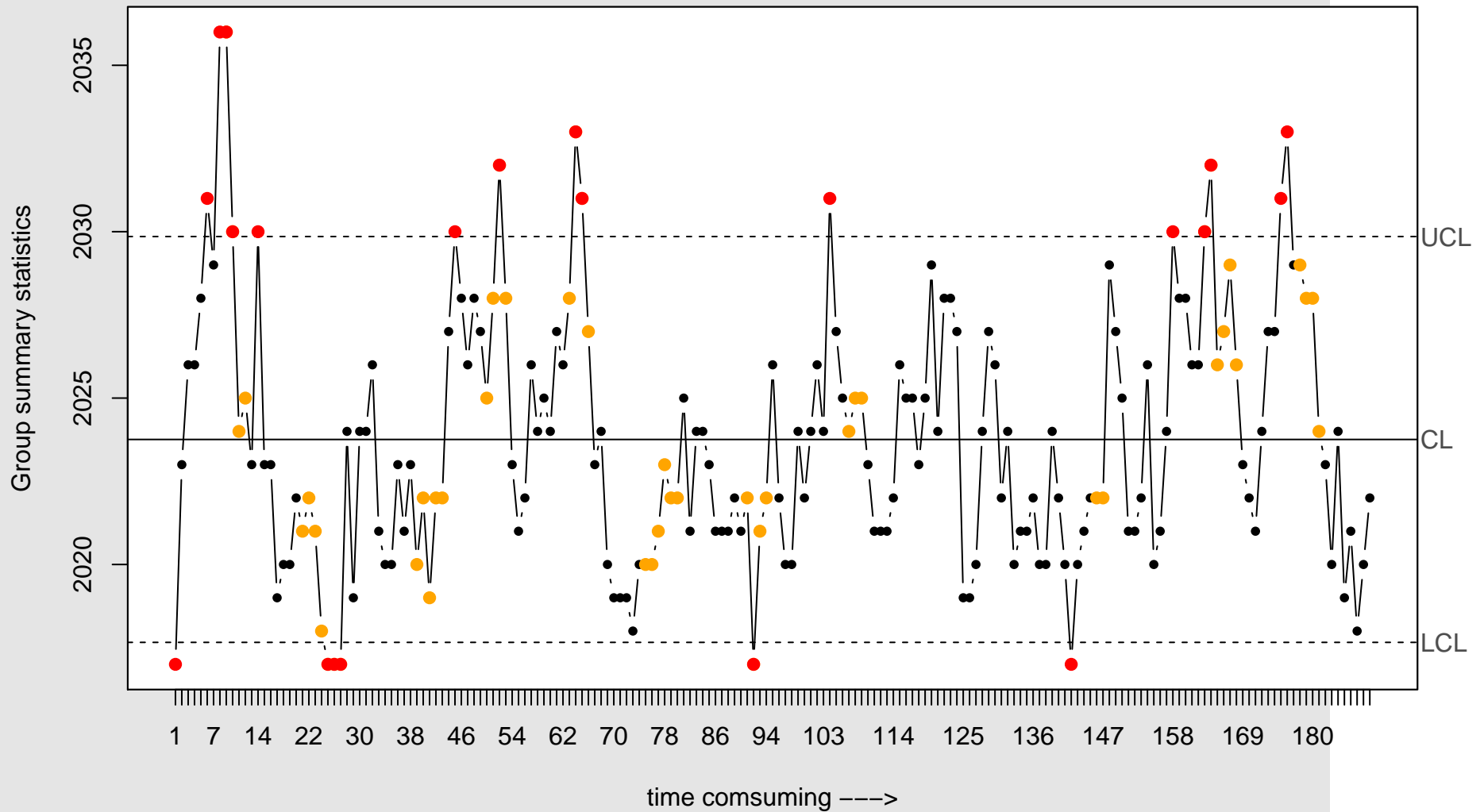
LCL = 2017.821

UCL = 2030.581

Number beyond limits = 12

Number violating runs = 54

183th column point of this product



Number of groups = 189

Center = 2023.757

StdDev = 2.032405

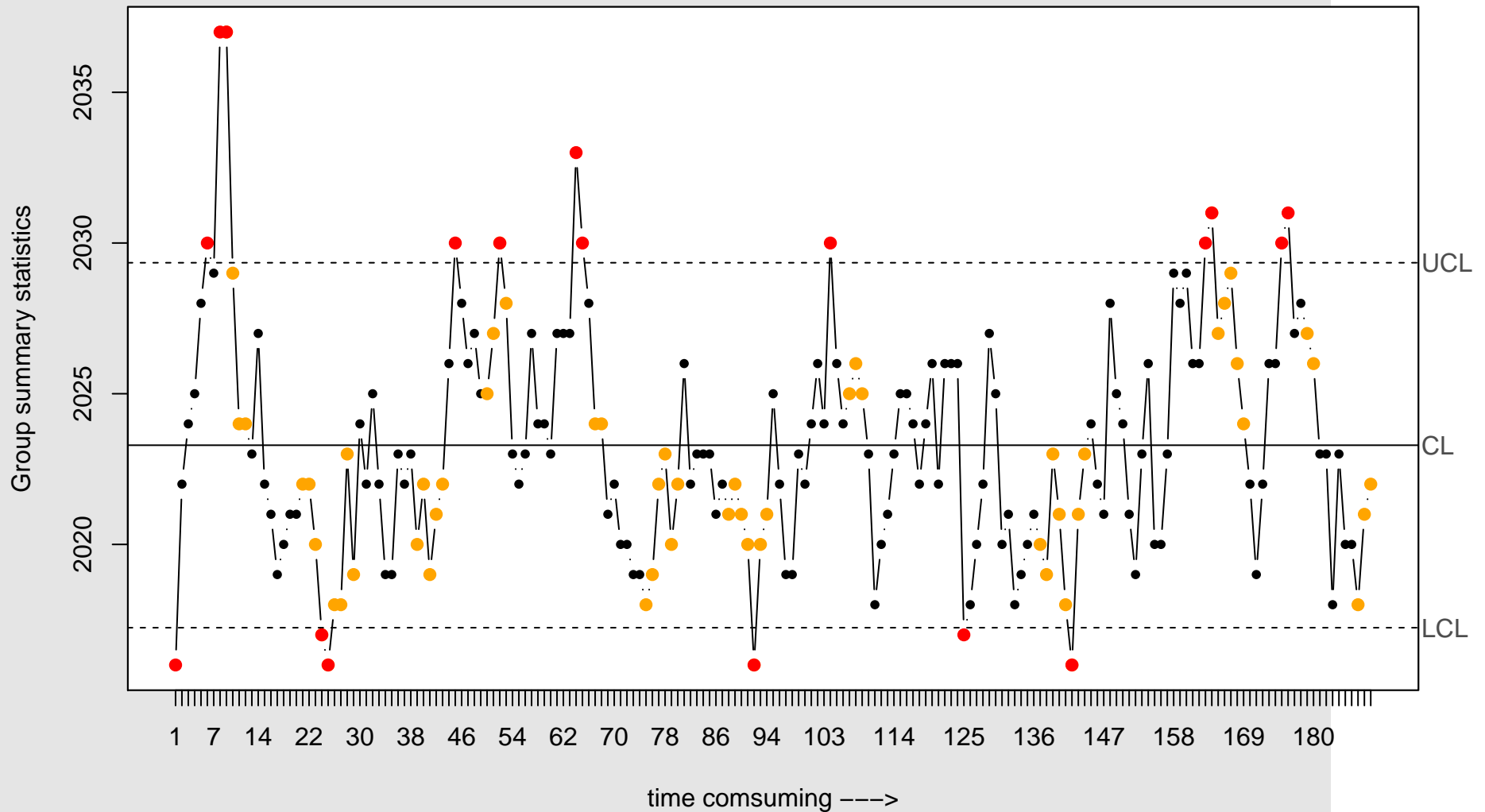
LCL = 2017.659

UCL = 2029.854

Number beyond limits = 21

Number violating runs = 49

184th column point of this product



Number of groups = 189

Center = 2023.291

StdDev = 2.018259

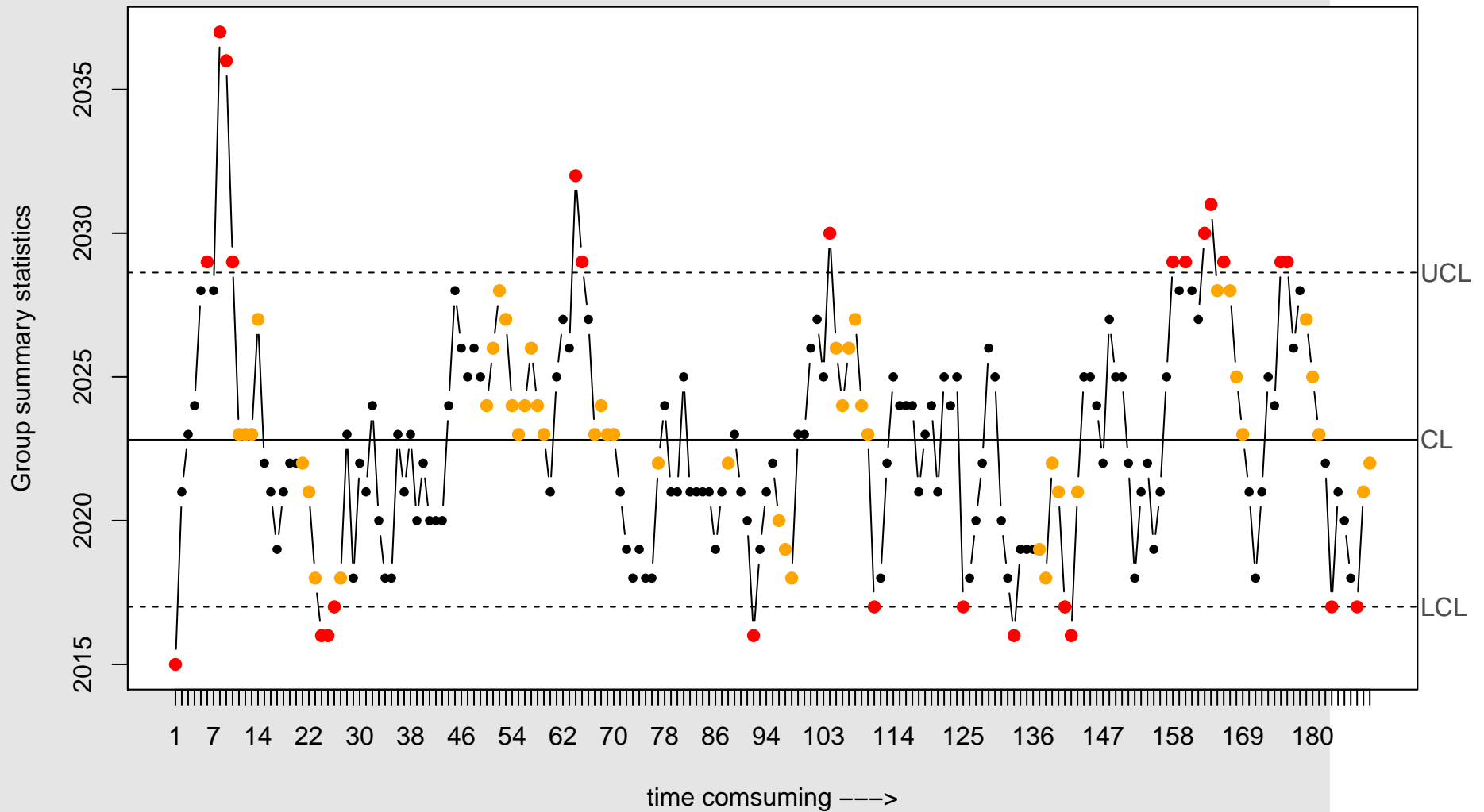
LCL = 2017.236

UCL = 2029.346

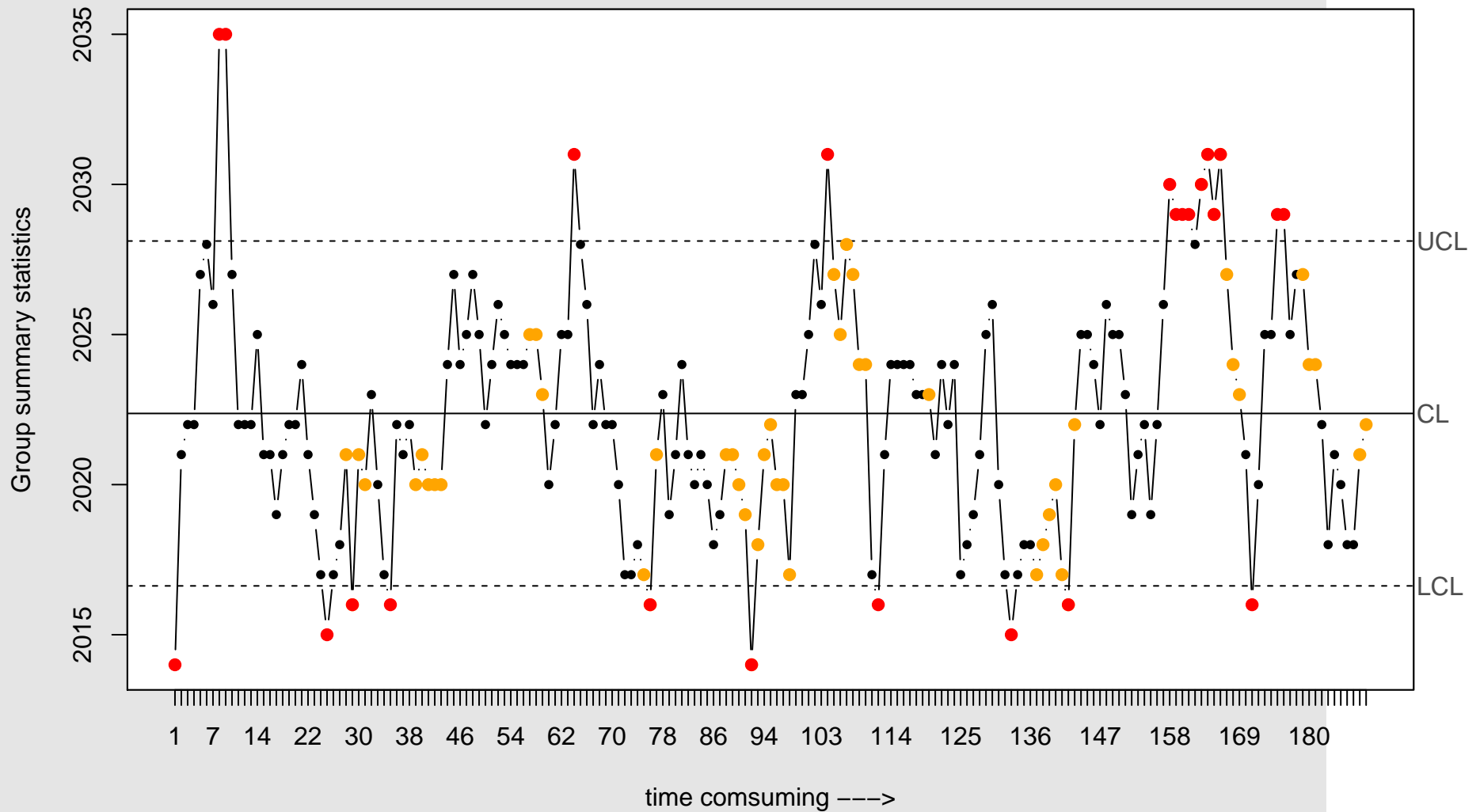
Number beyond limits = 18

Number violating runs = 59

185th column point of this product



186th column point of this product



Number of groups = 189

Center = 2022.37

StdDev = 1.914516

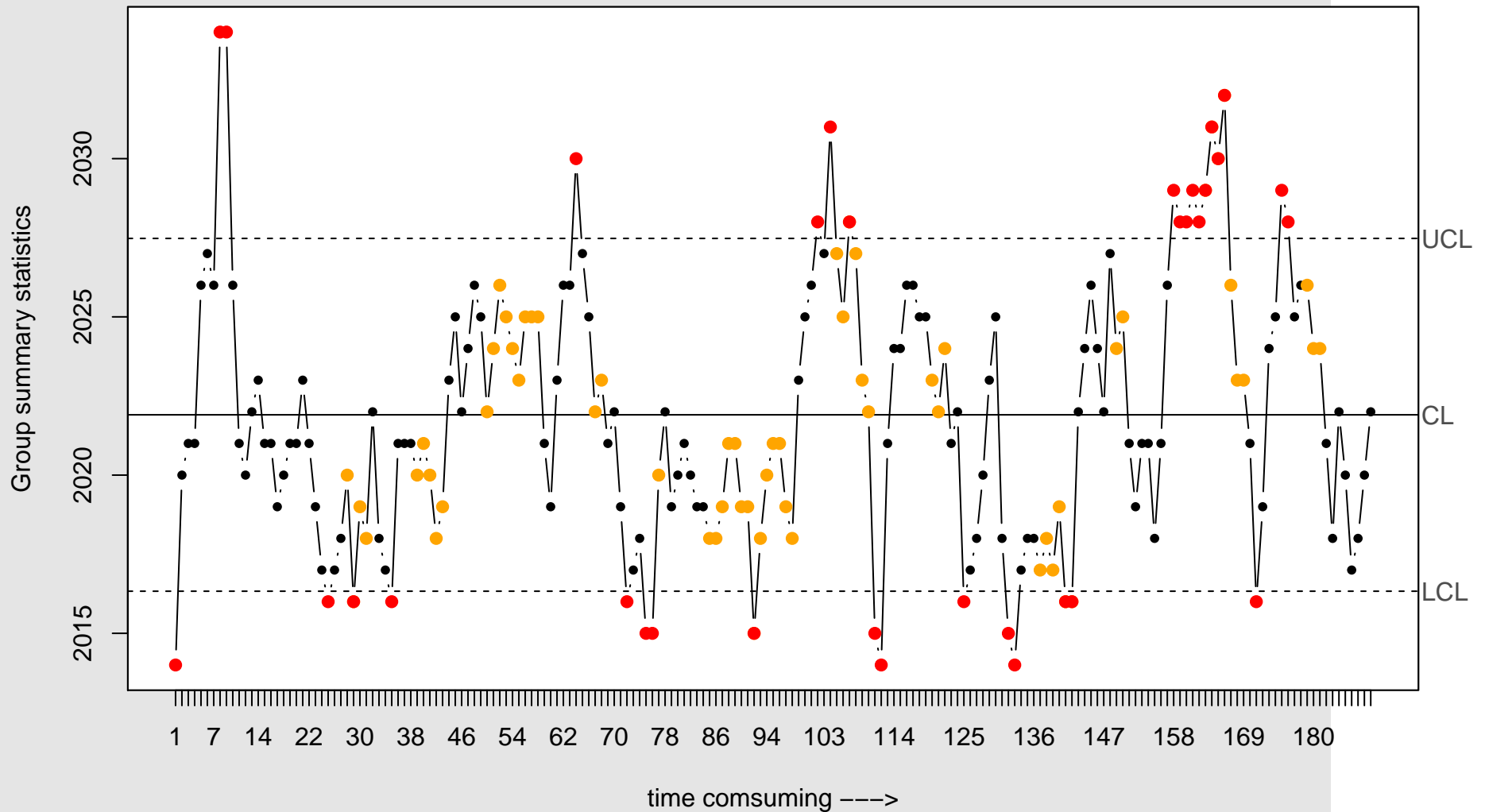
LCL = 2016.627

UCL = 2028.114

Number beyond limits = 24

Number violating runs = 52

187th column point of this product



Number of groups = 189

Center = 2021.905

StdDev = 1.85793

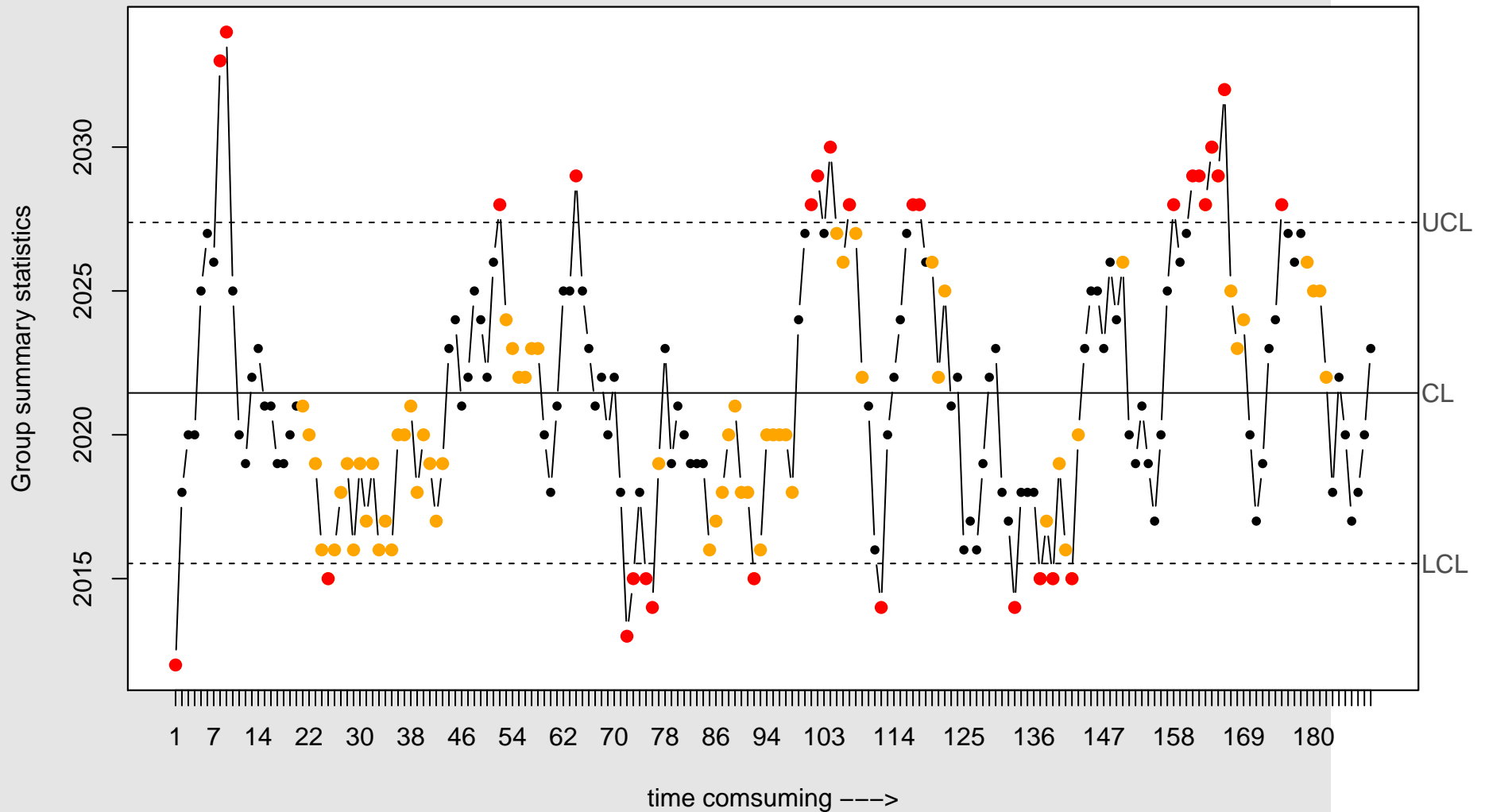
LCL = 2016.331

UCL = 2027.479

Number beyond limits = 33

Number violating runs = 62

188th column point of this product

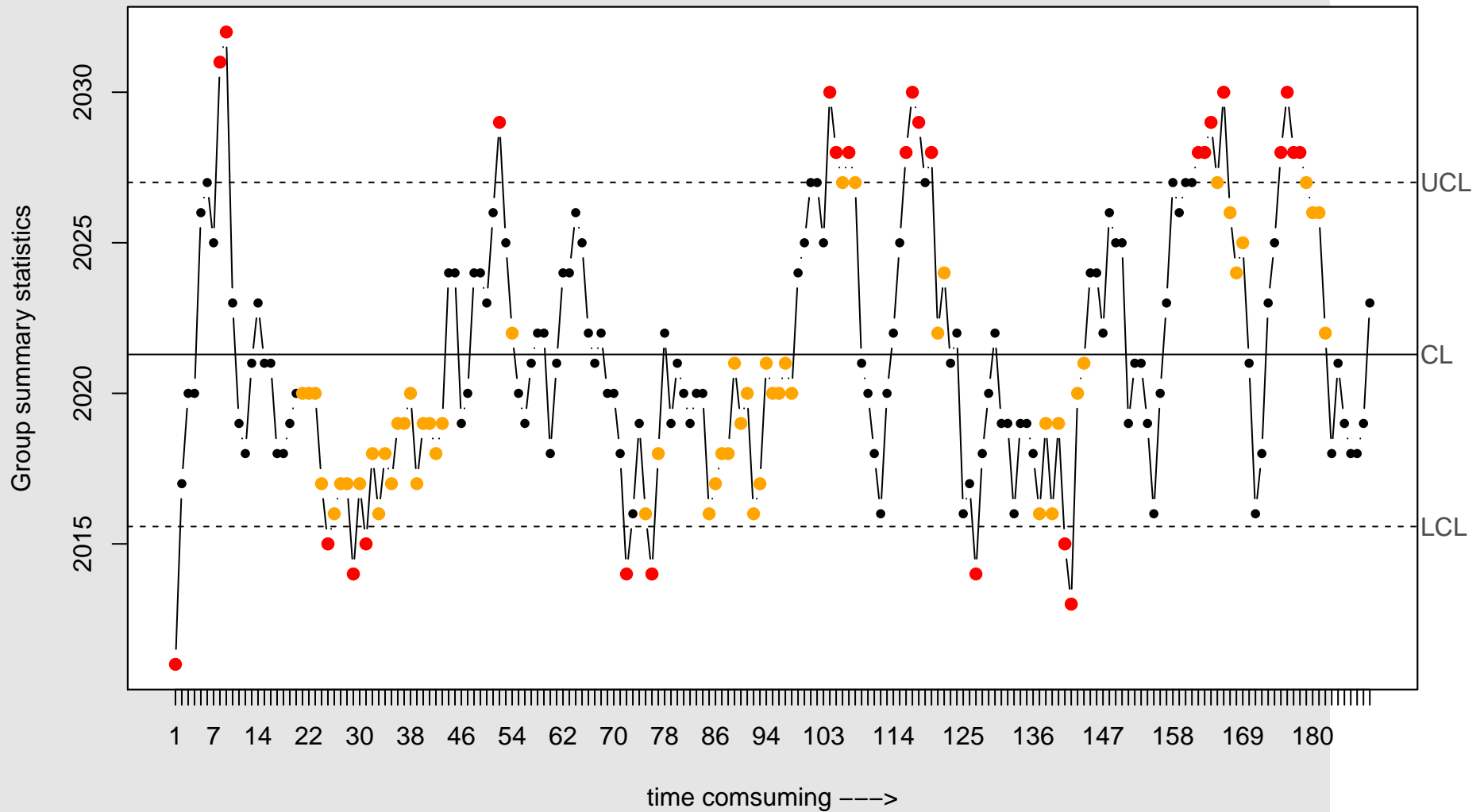


Number of groups = 189
 Center = 2021.455
 StdDev = 1.975819

LCL = 2015.528
 UCL = 2027.382

Number beyond limits = 30
 Number violating runs = 71

189th column point of this product

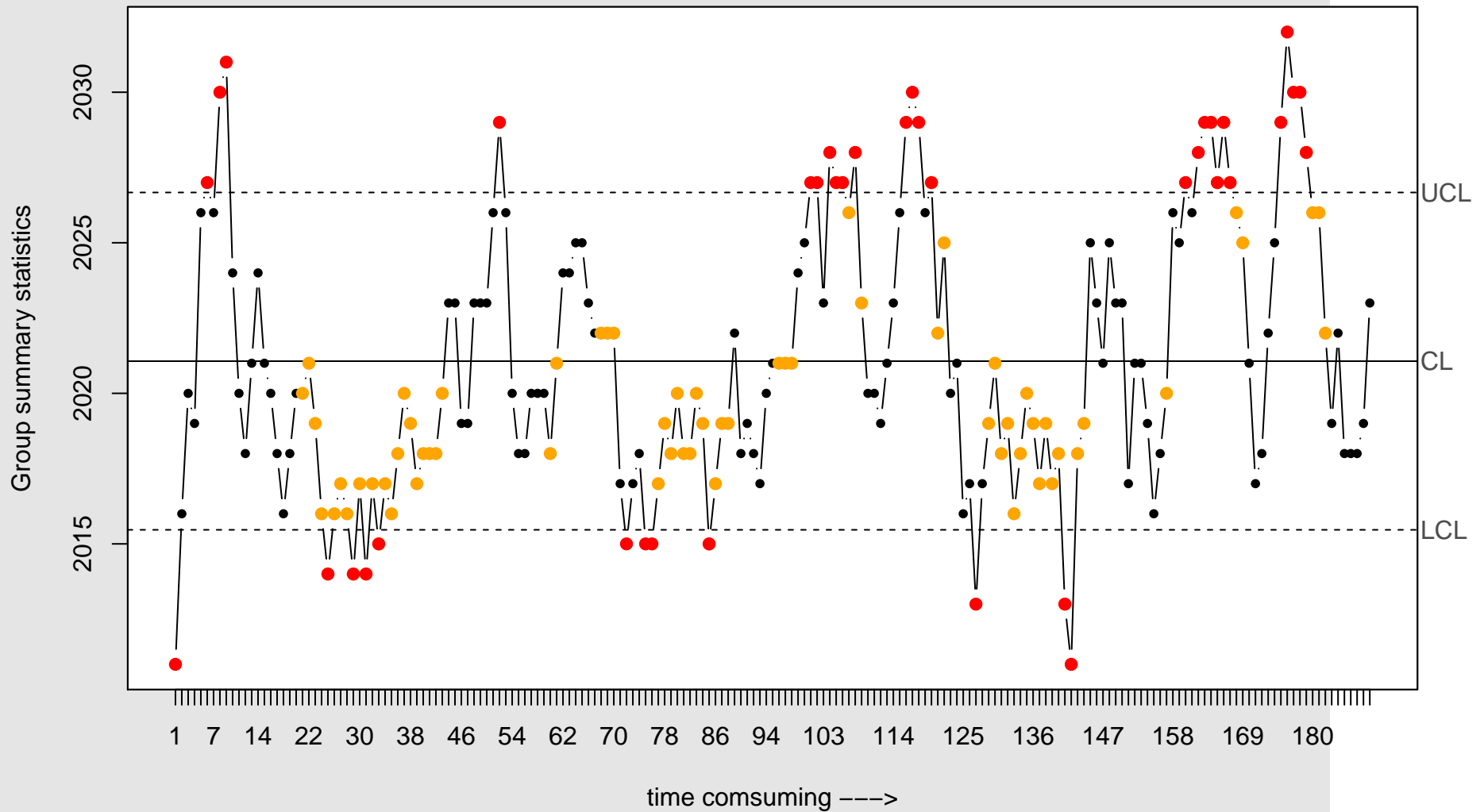


Number of groups = 189
Center = 2021.291
StdDev = 1.905085

LCL = 2015.576
UCL = 2027.006

Number beyond limits = 27
Number violating runs = 67

190th column point of this product

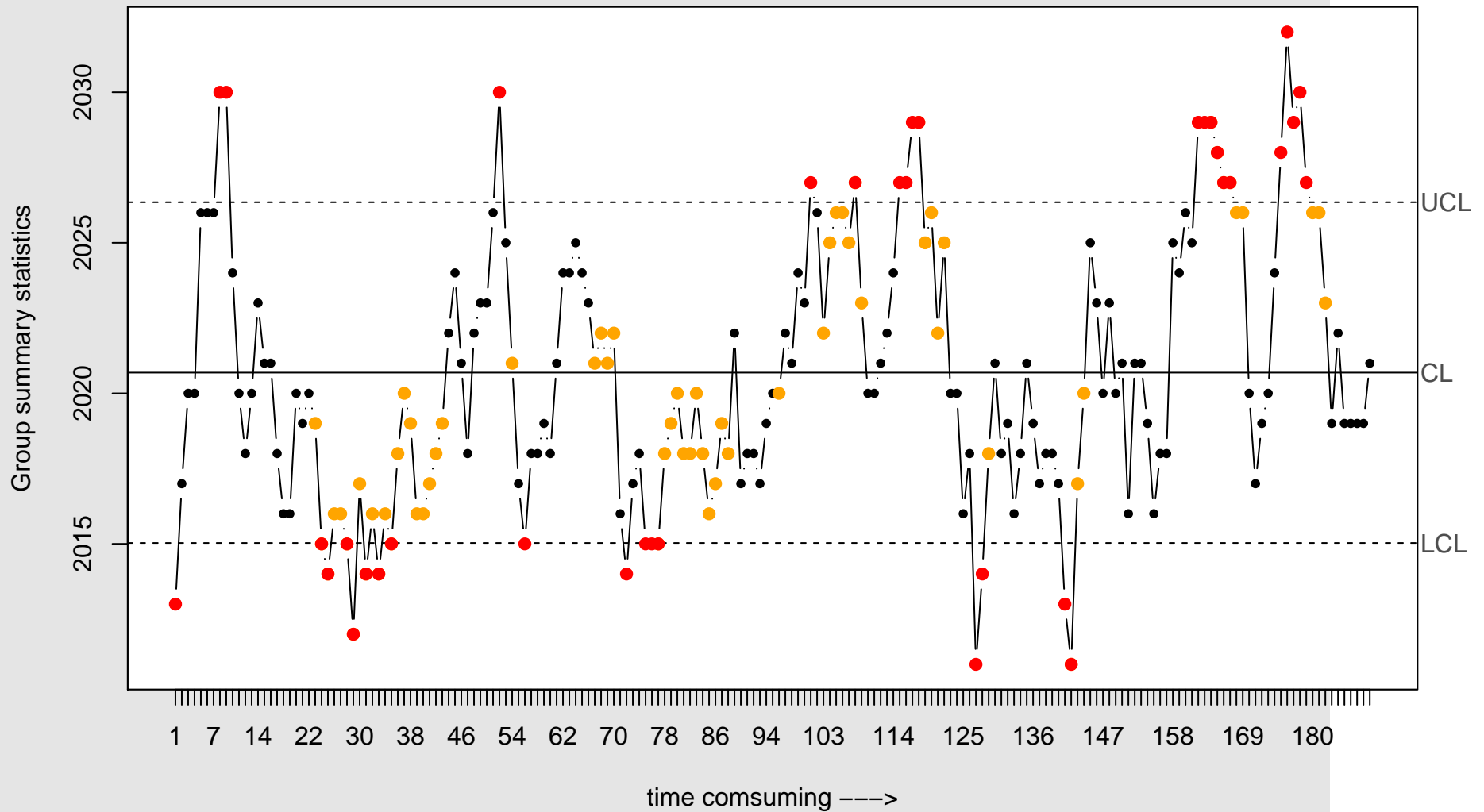


Number of groups = 189
Center = 2021.069
StdDev = 1.867361

LCL = 2015.467
UCL = 2026.671

Number beyond limits = 38
Number violating runs = 78

191th column point of this product

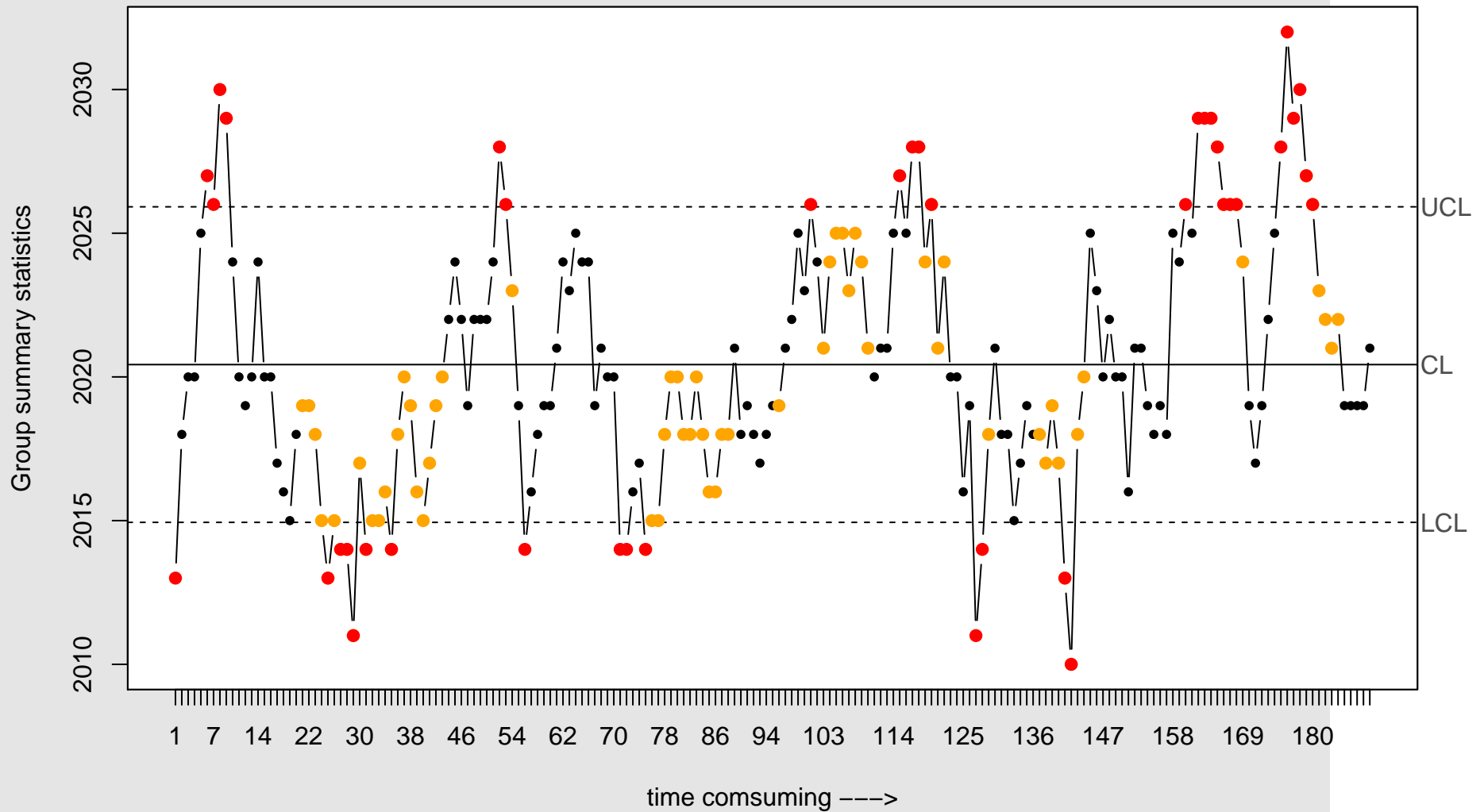


Number of groups = 189
Center = 2020.688
StdDev = 1.886223

LCL = 2015.029
UCL = 2026.346

Number beyond limits = 37
Number violating runs = 64

192th column point of this product

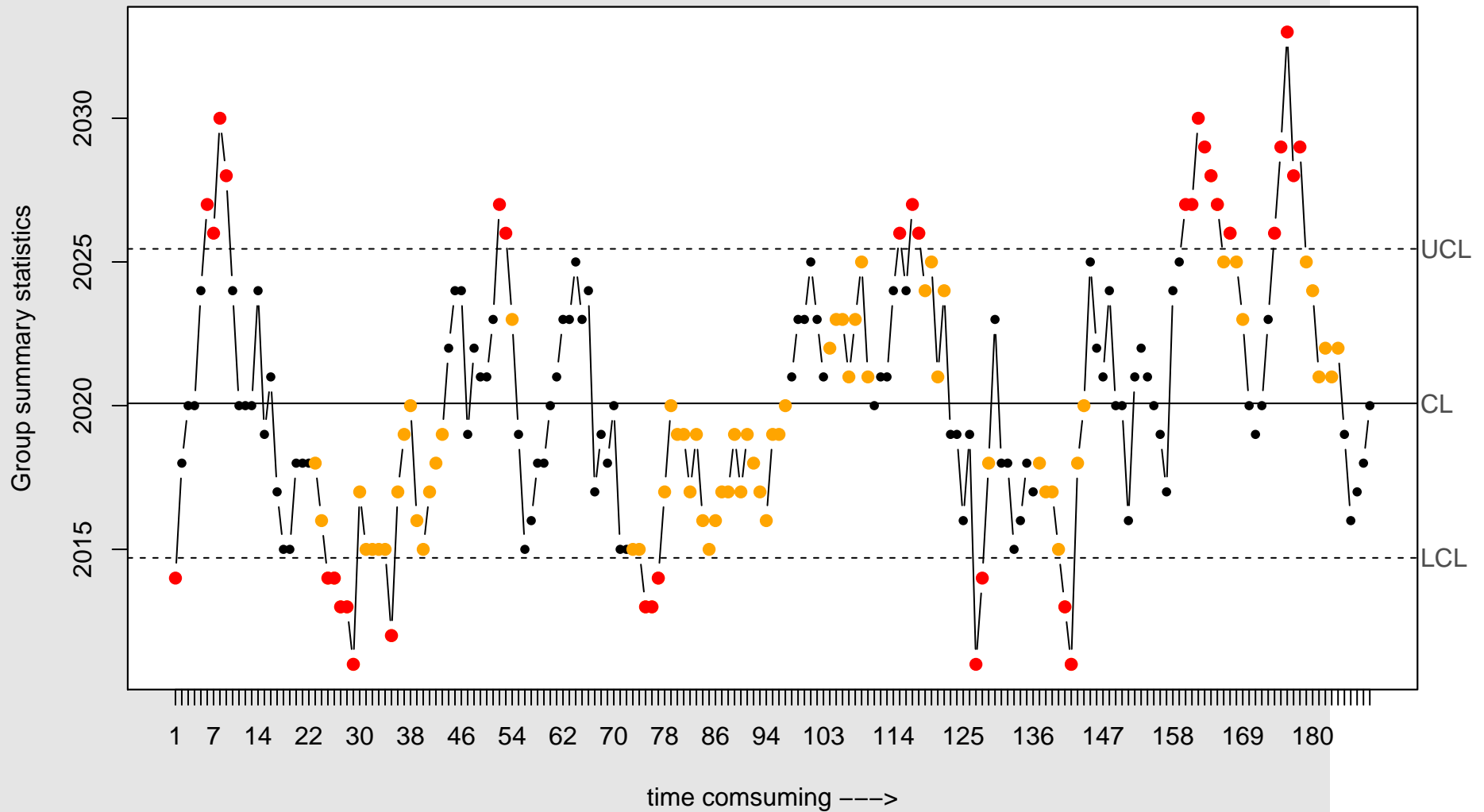


Number of groups = 189
Center = 2020.429
StdDev = 1.829636

LCL = 2014.94
UCL = 2025.917

Number beyond limits = 40
Number violating runs = 73

193th column point of this product



Number of groups = 189

Center = 2020.079

StdDev = 1.791912

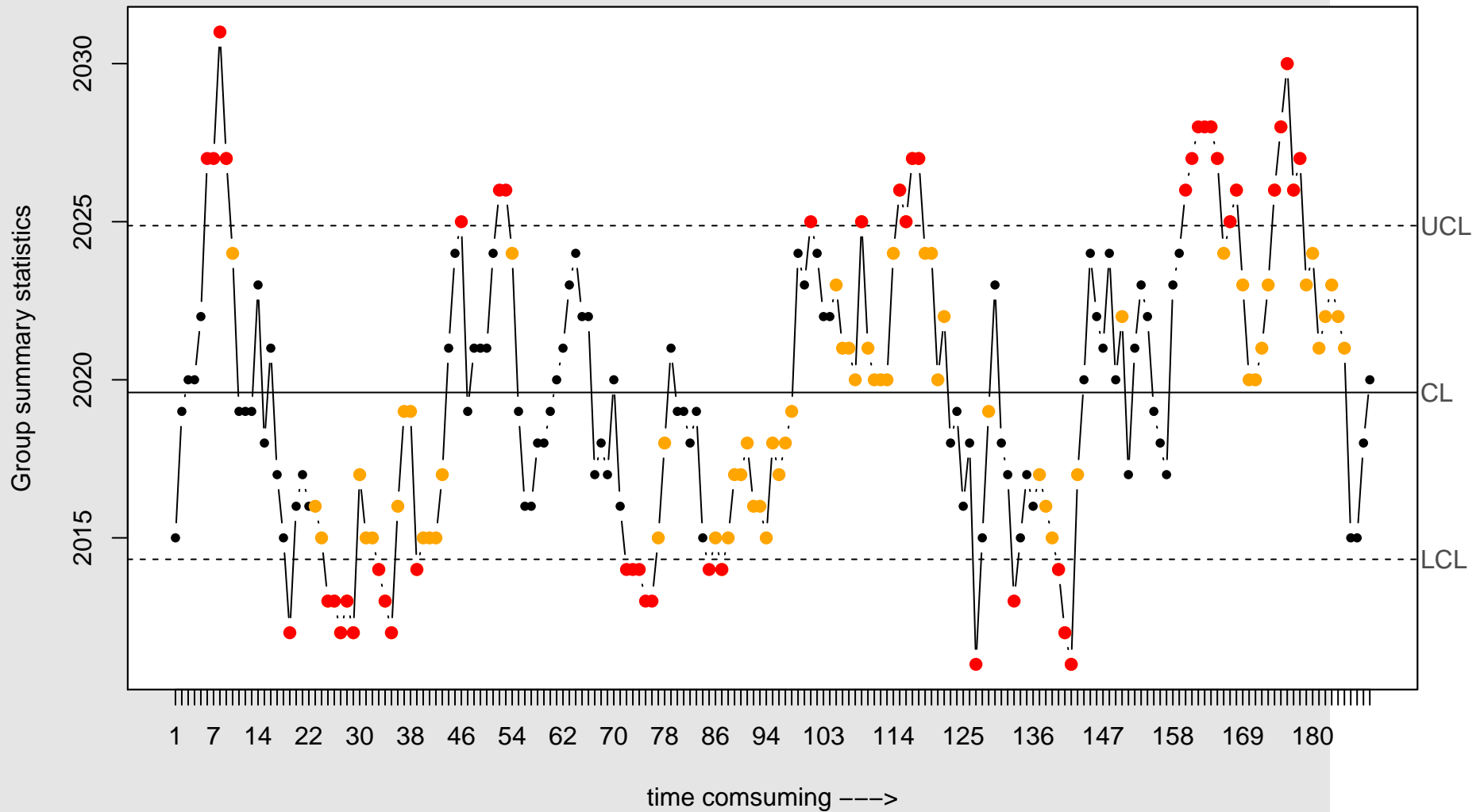
LCL = 2014.704

UCL = 2025.455

Number beyond limits = 35

Number violating runs = 80

194th column point of this product

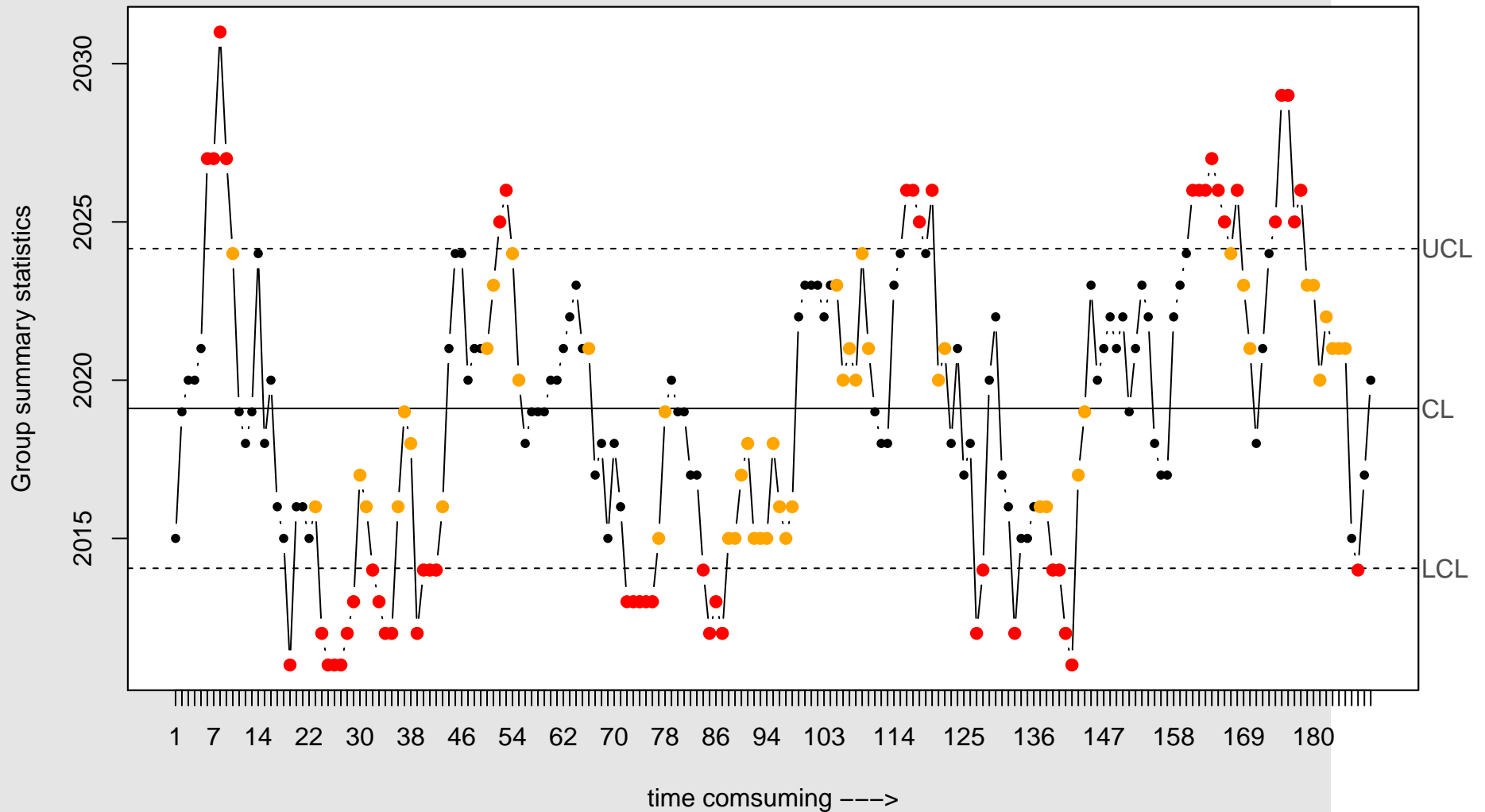


Number of groups = 189
Center = 2019.598
StdDev = 1.758903

LCL = 2014.321
UCL = 2024.875

Number beyond limits = 48
Number violating runs = 88

195th column point of this product

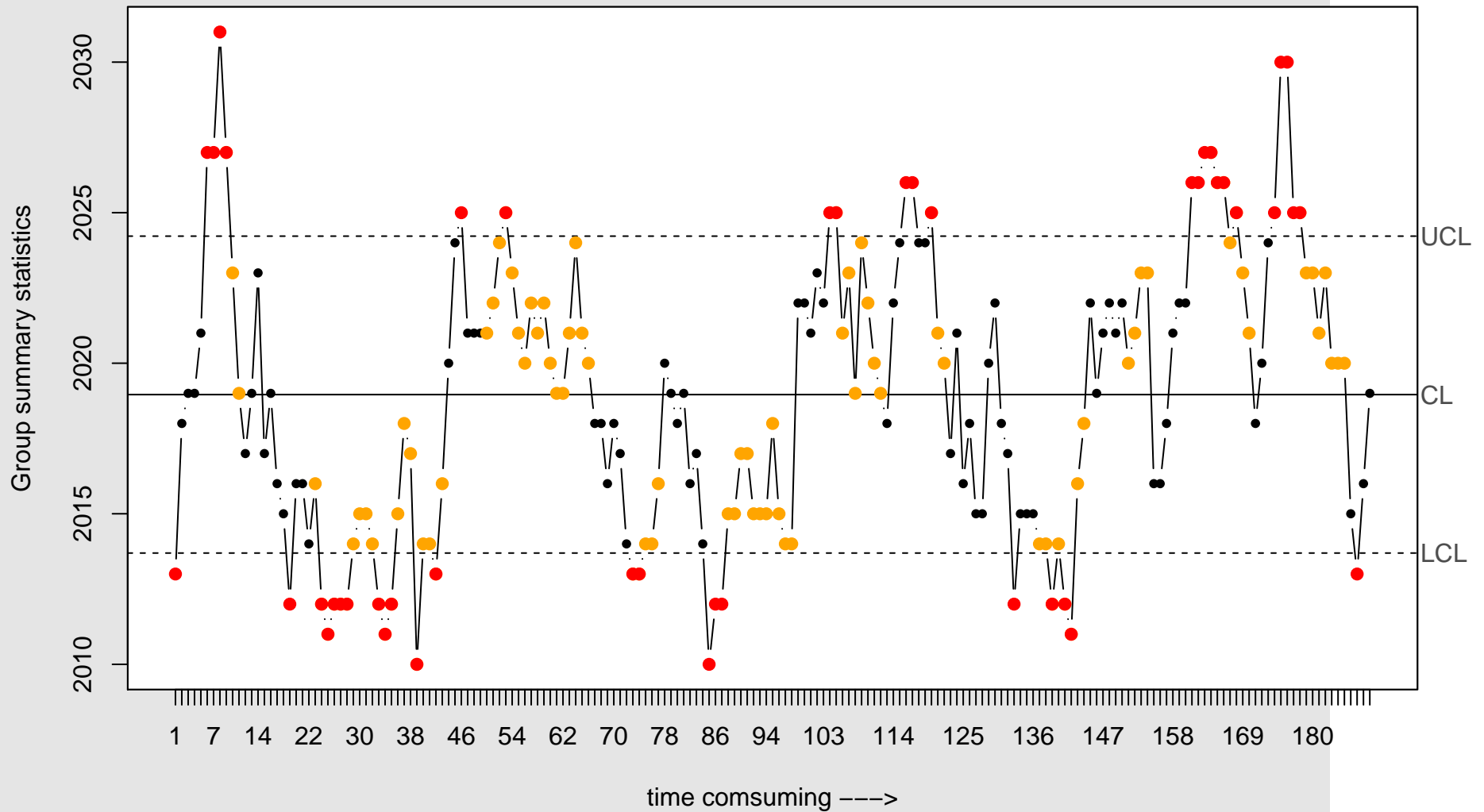


Number of groups = 189
Center = 2019.106
StdDev = 1.683454

LCL = 2014.055
UCL = 2024.156

Number beyond limits = 54
Number violating runs = 81

196th column point of this product

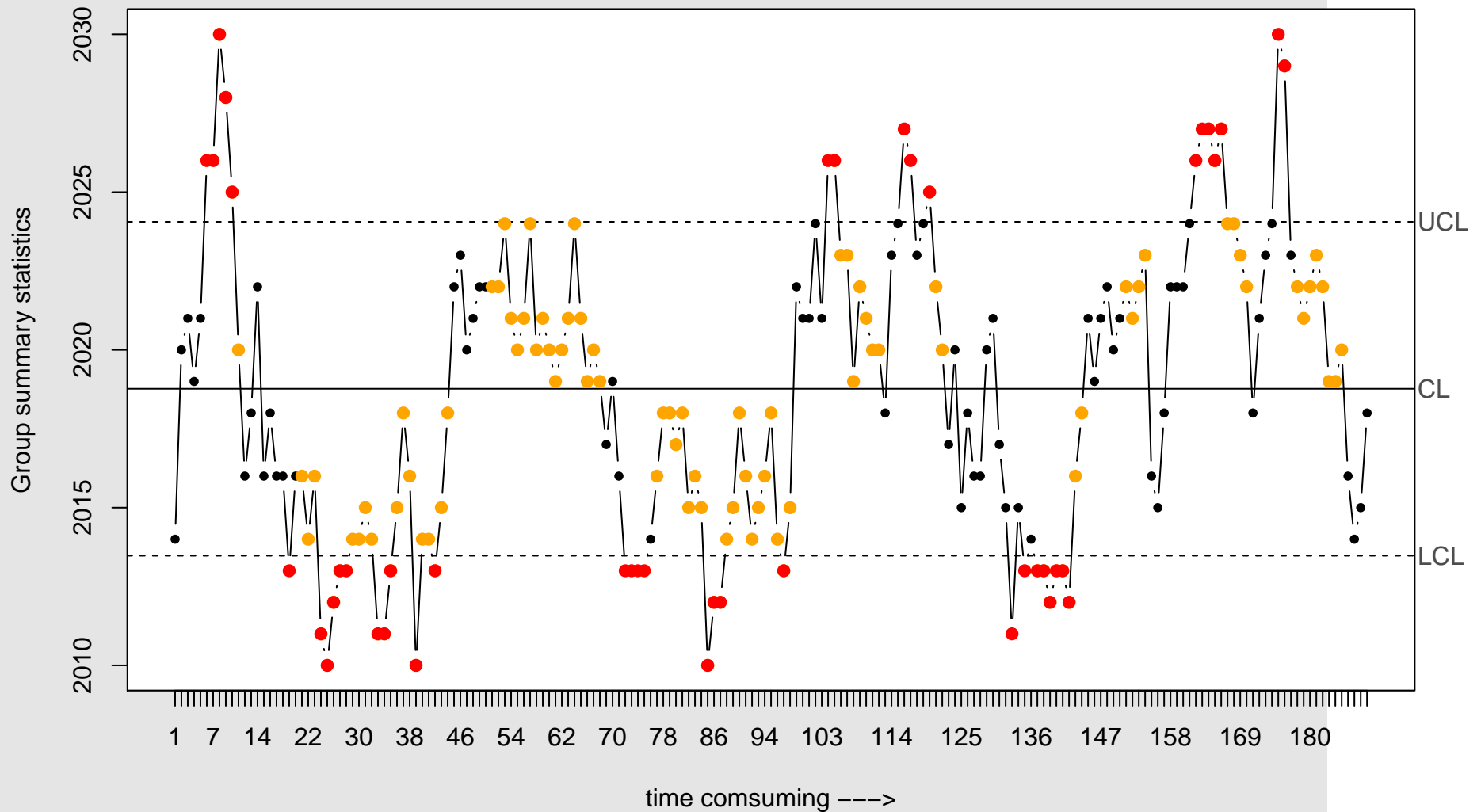


Number of groups = 189
Center = 2018.958
StdDev = 1.754187

LCL = 2013.695
UCL = 2024.22

Number beyond limits = 45
Number violating runs = 95

197th column point of this product

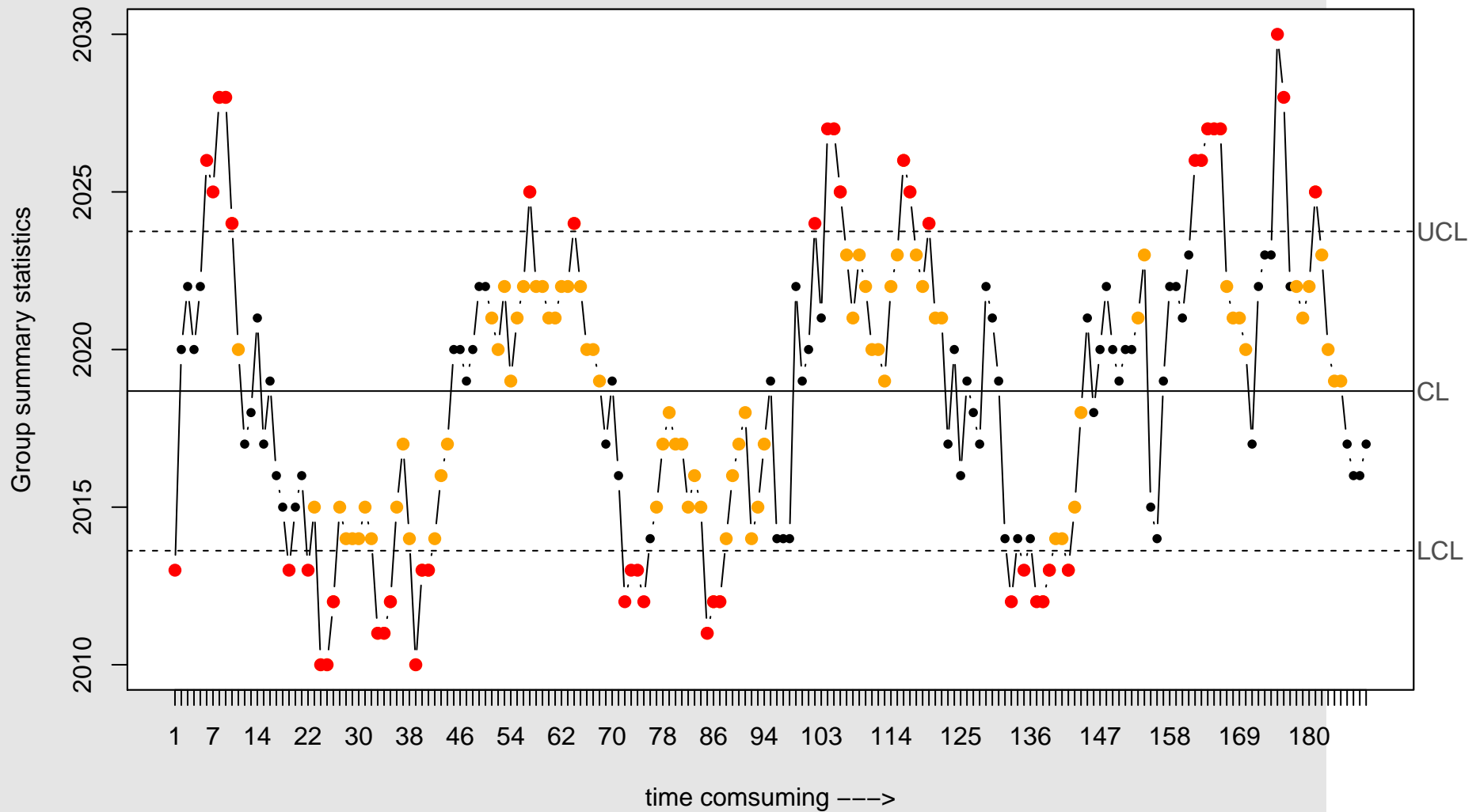


Number of groups = 189
Center = 2018.767
StdDev = 1.763619

LCL = 2013.476
UCL = 2024.058

Number beyond limits = 44
Number violating runs = 106

198th column point of this product

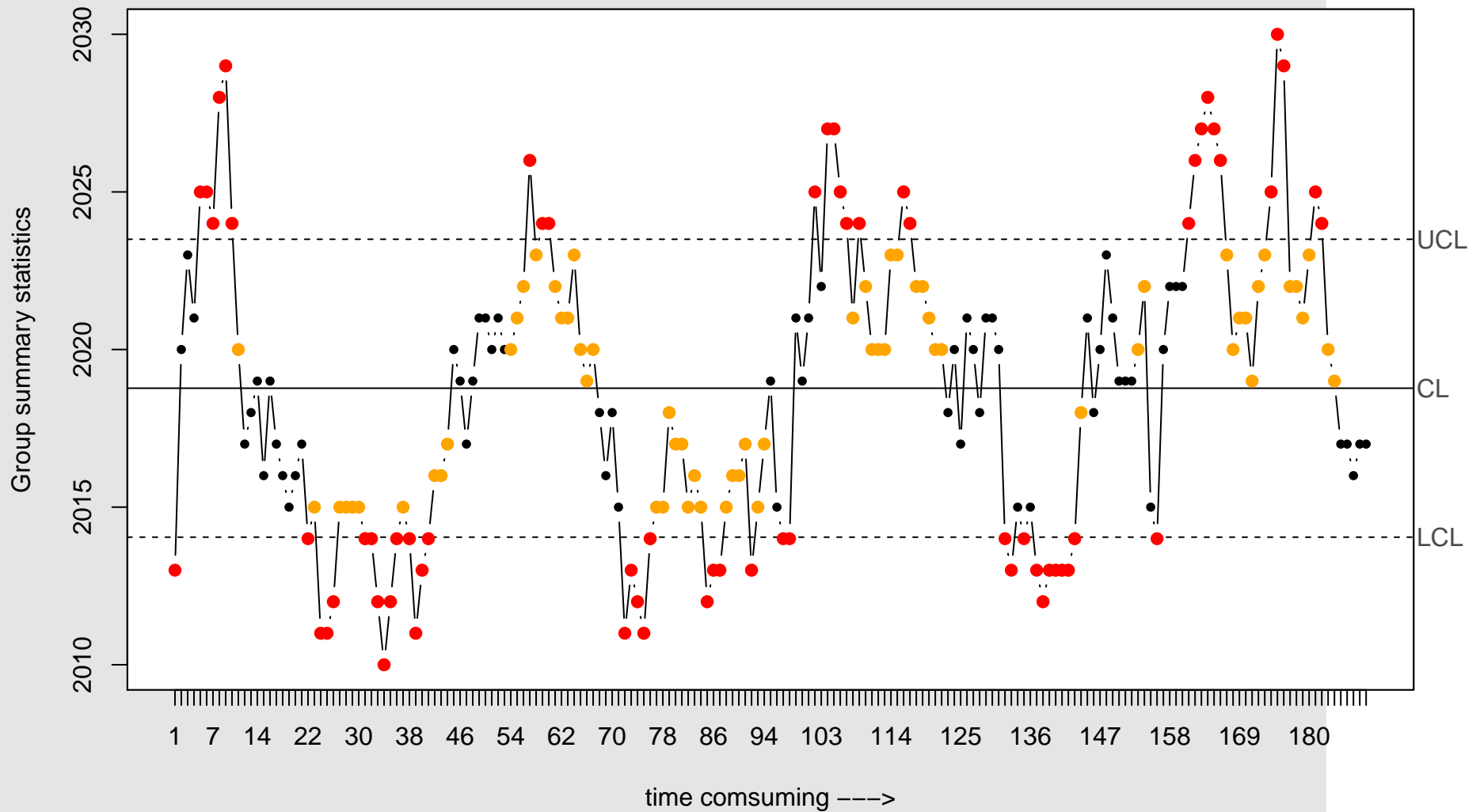


Number of groups = 189
Center = 2018.683
StdDev = 1.68817

LCL = 2013.618
UCL = 2023.747

Number beyond limits = 47
Number violating runs = 105

199th column point of this product

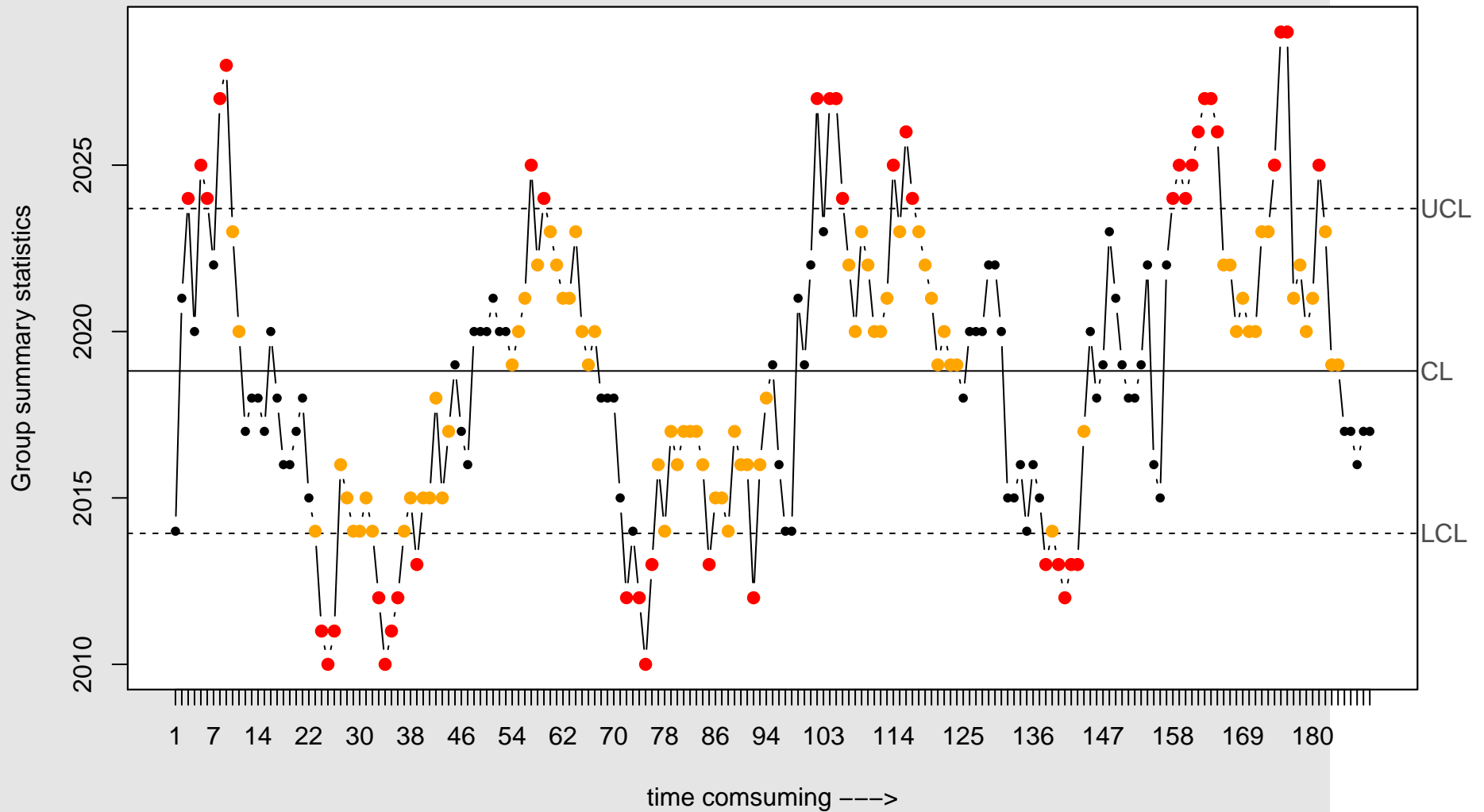


Number of groups = 189
 Center = 2018.772
 StdDev = 1.574996

LCL = 2014.047
 UCL = 2023.497

Number beyond limits = 65
 Number violating runs = 110

200th column point of this product

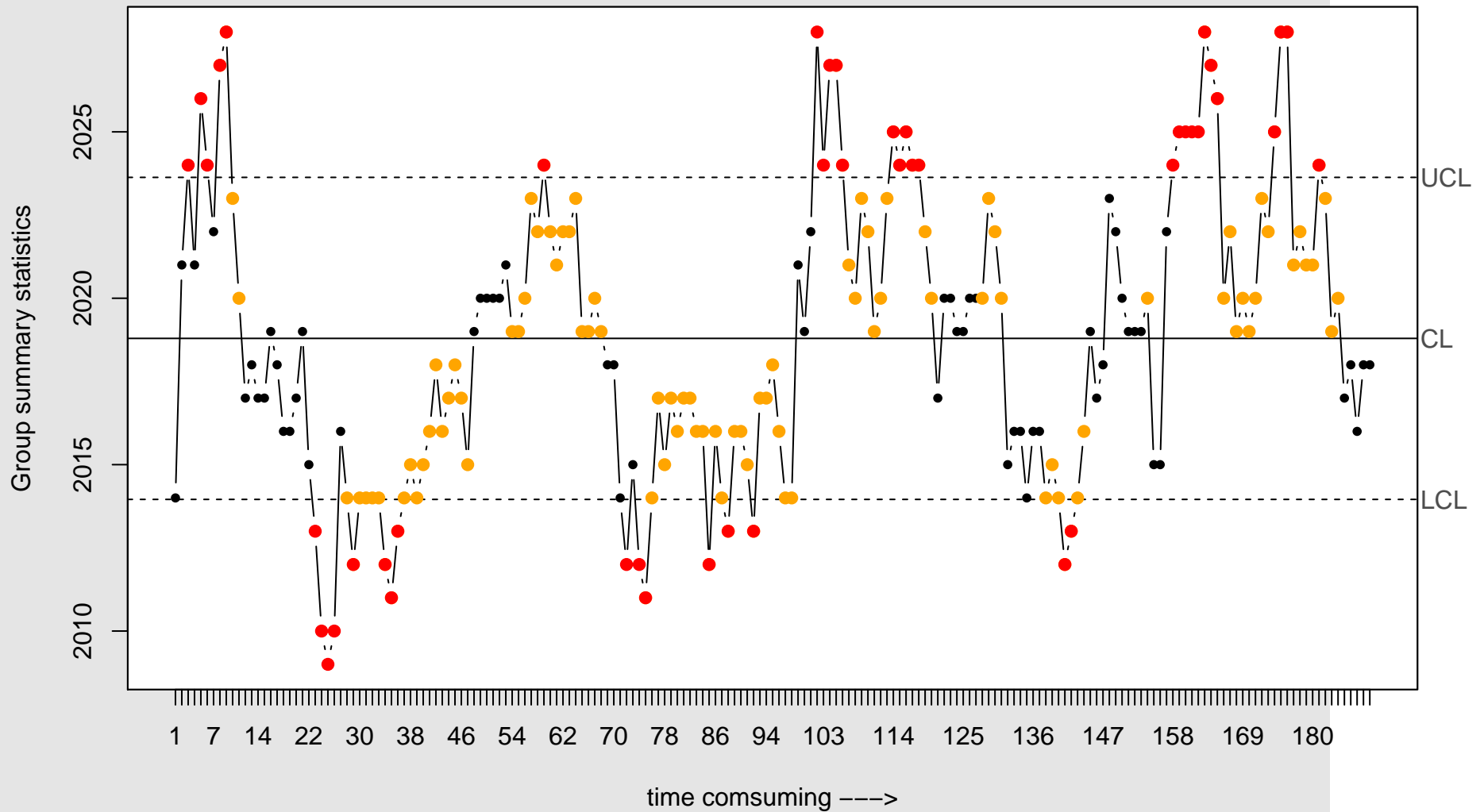


Number of groups = 189
 Center = 2018.815
 StdDev = 1.626867

LCL = 2013.934
 UCL = 2023.695

Number beyond limits = 45
 Number violating runs = 110

201th column point of this product

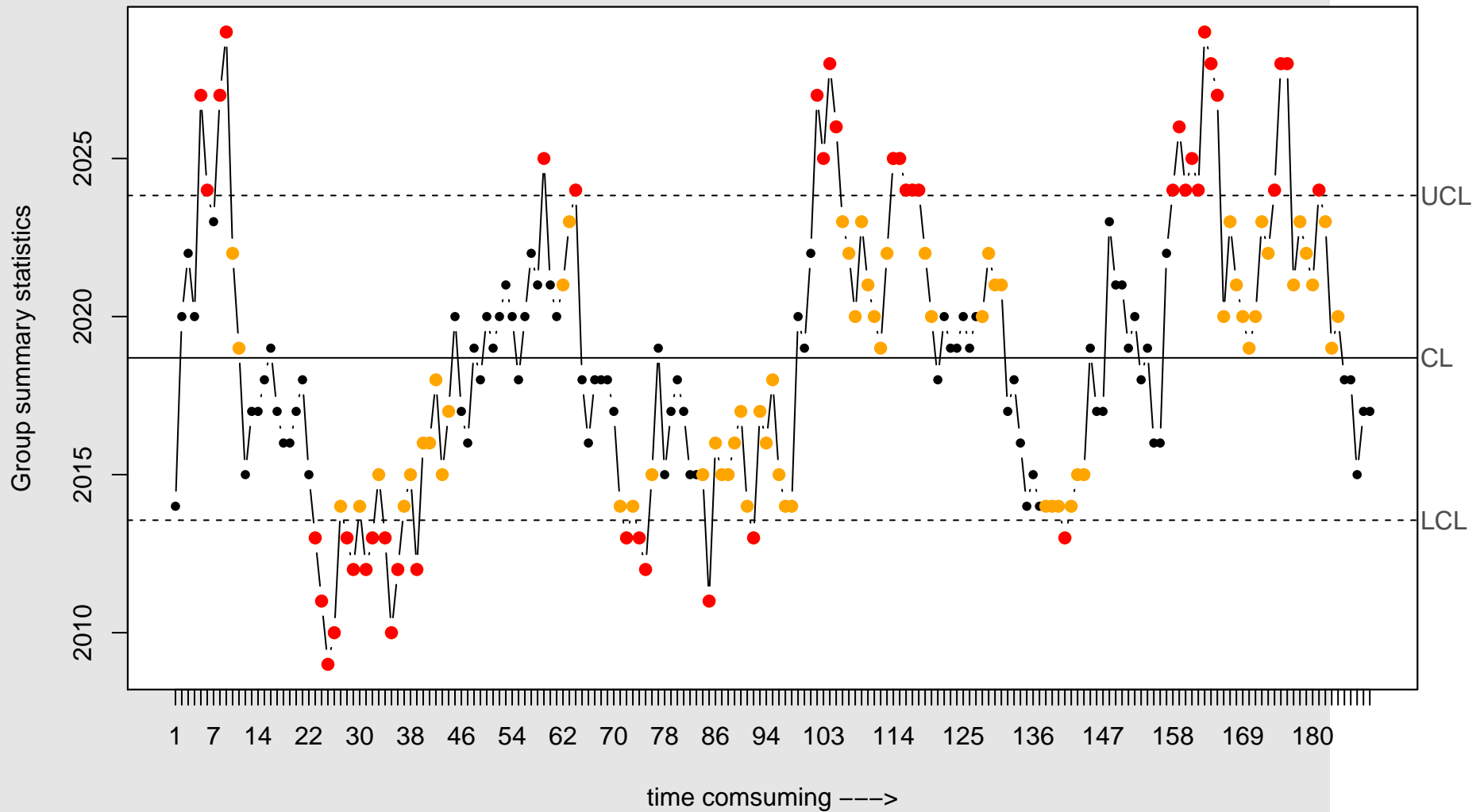


Number of groups = 189
Center = 2018.794
StdDev = 1.612721

LCL = 2013.955
UCL = 2023.632

Number beyond limits = 44
Number violating runs = 113

202th column point of this product

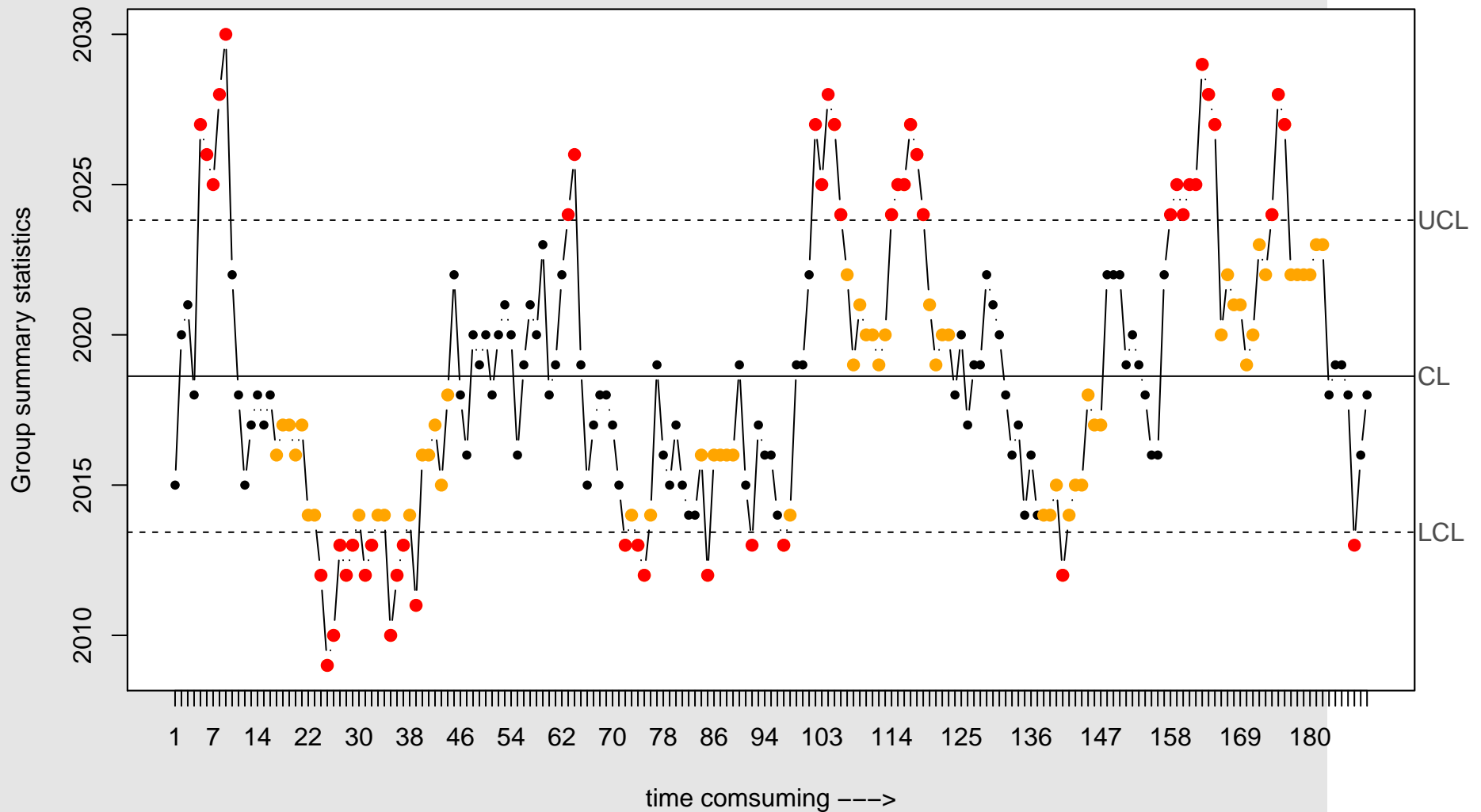


Number of groups = 189
 Center = 2018.693
 StdDev = 1.711747

LCL = 2013.558
 UCL = 2023.828

Number beyond limits = 45
 Number violating runs = 99

203th column point of this product

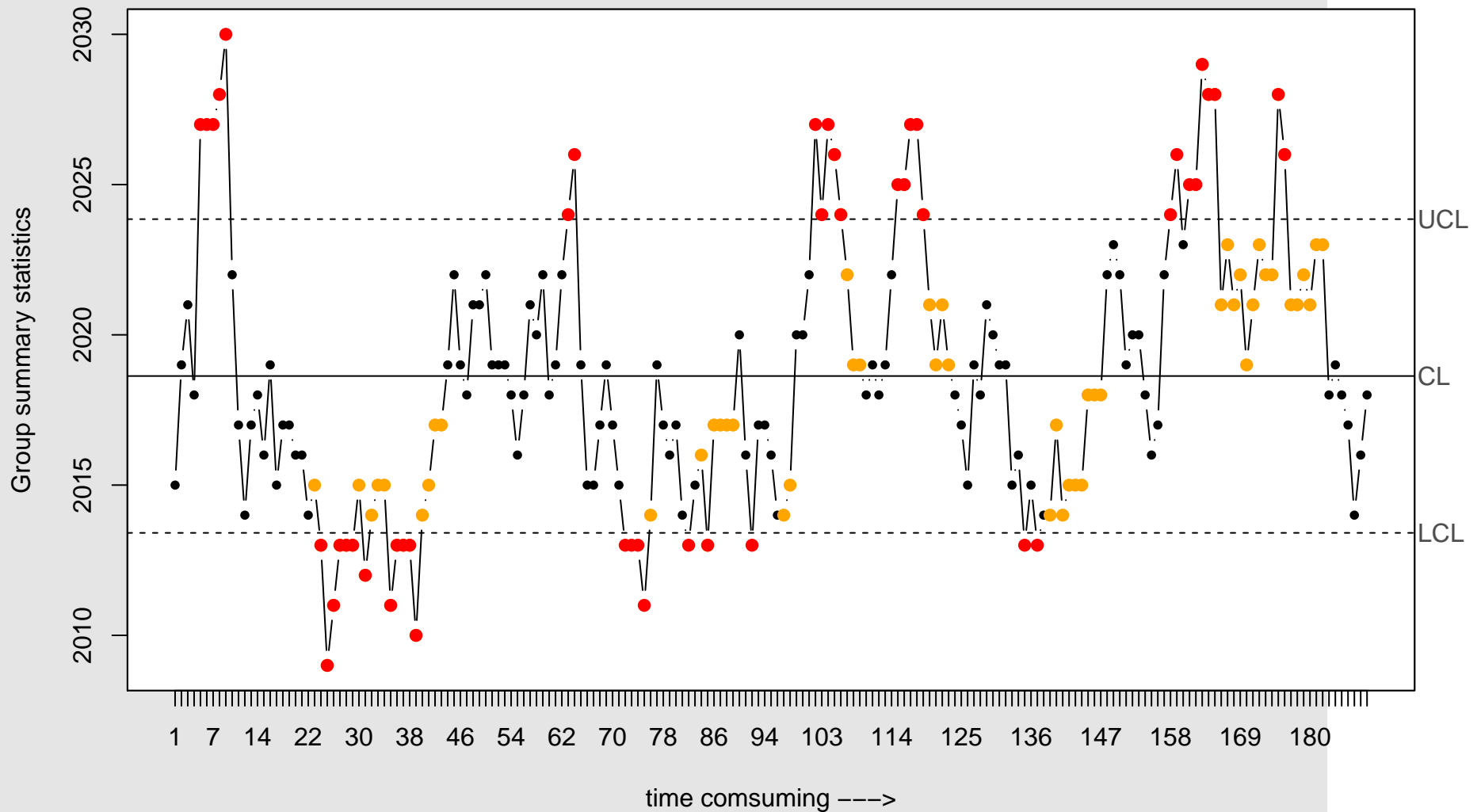


Number of groups = 189
Center = 2018.624
StdDev = 1.73061

LCL = 2013.433
UCL = 2023.816

Number beyond limits = 49
Number violating runs = 90

204th column point of this product

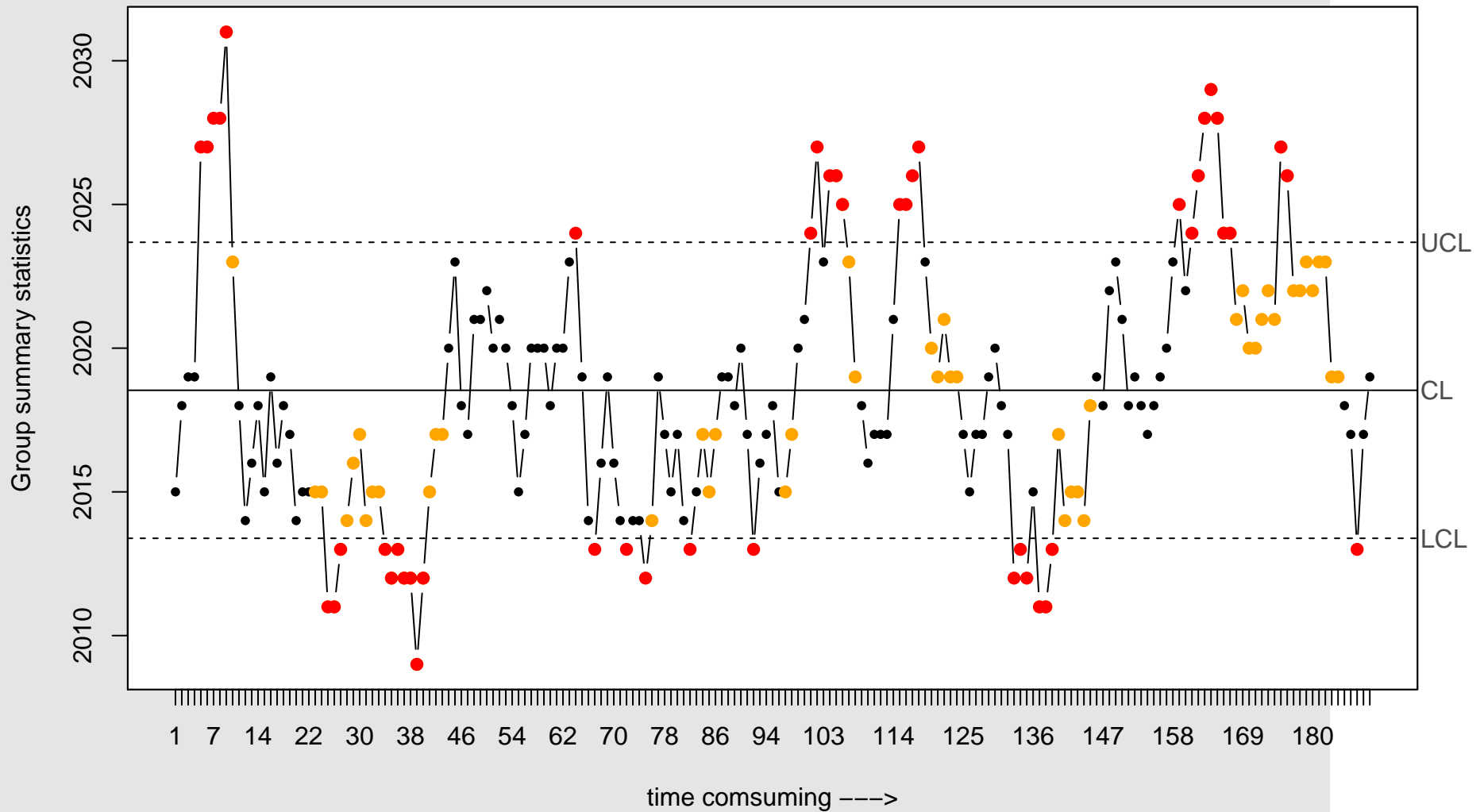


Number of groups = 189
 Center = 2018.63
 StdDev = 1.740041

LCL = 2013.41
 UCL = 2023.85

Number beyond limits = 47
 Number violating runs = 69

205th column point of this product



Number of groups = 189

Center = 2018.534

StdDev = 1.716463

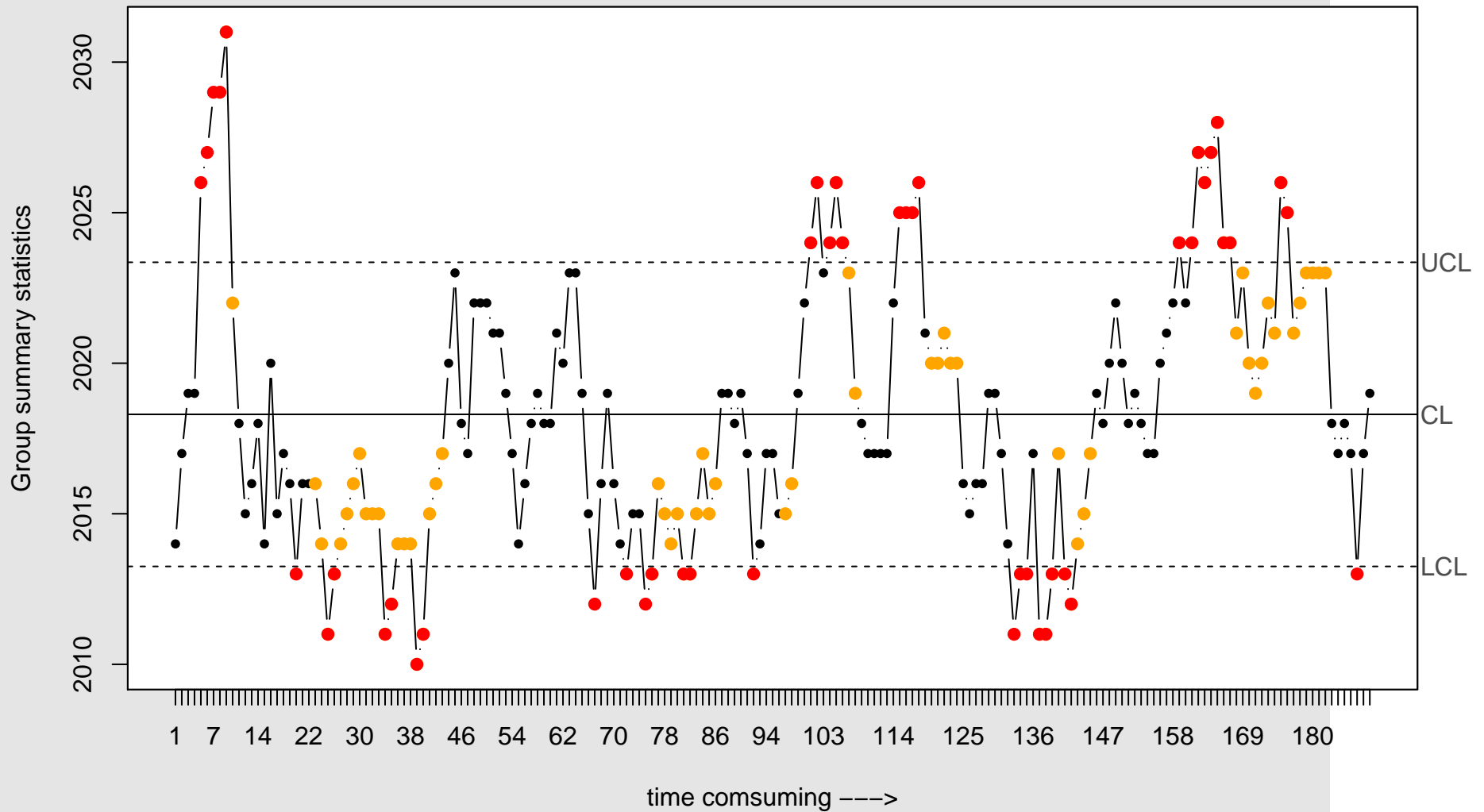
LCL = 2013.385

UCL = 2023.684

Number beyond limits = 47

Number violating runs = 70

206th column point of this product

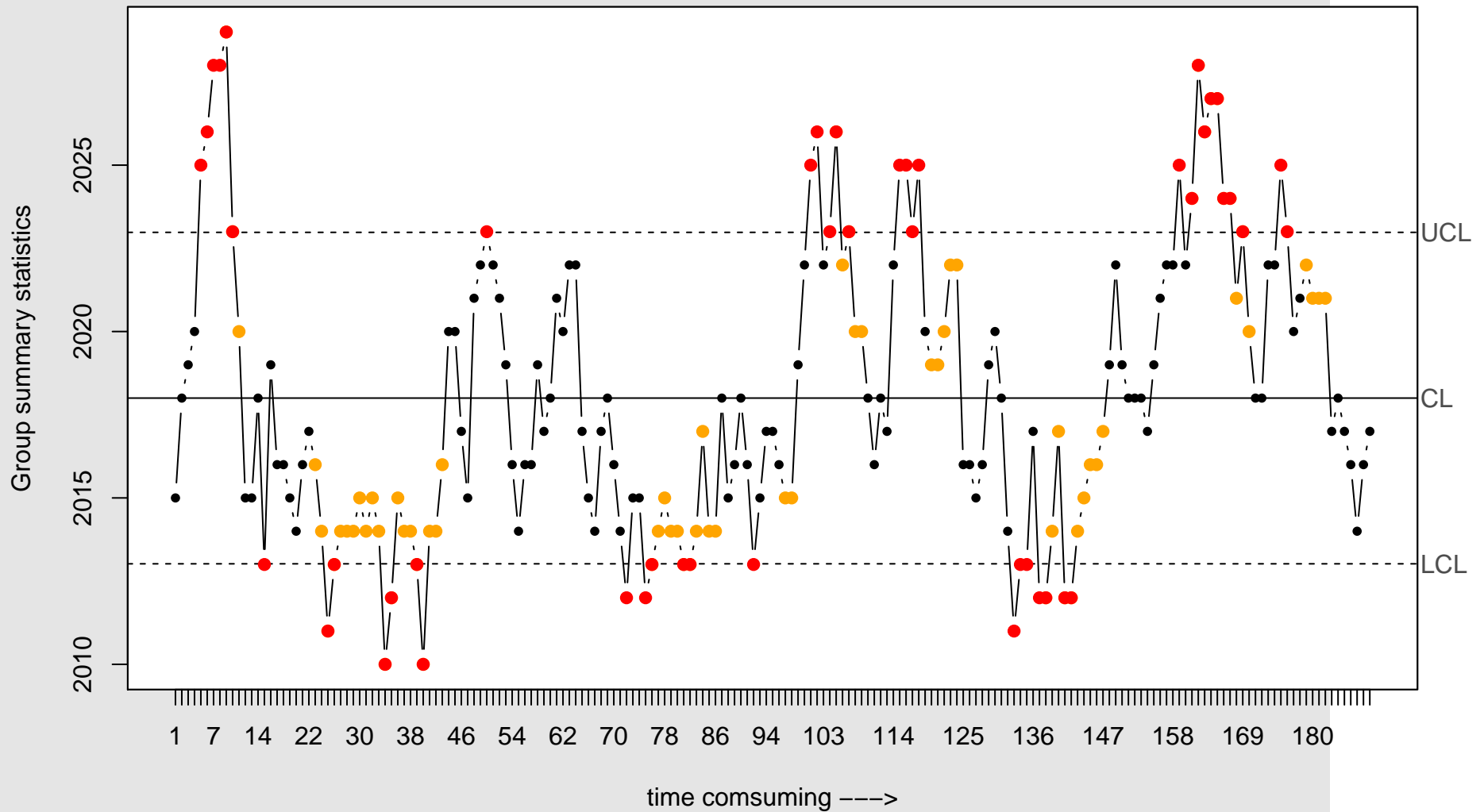


Number of groups = 189
 Center = 2018.302
 StdDev = 1.683454

LCL = 2013.251
 UCL = 2023.352

Number beyond limits = 47
 Number violating runs = 75

207th column point of this product

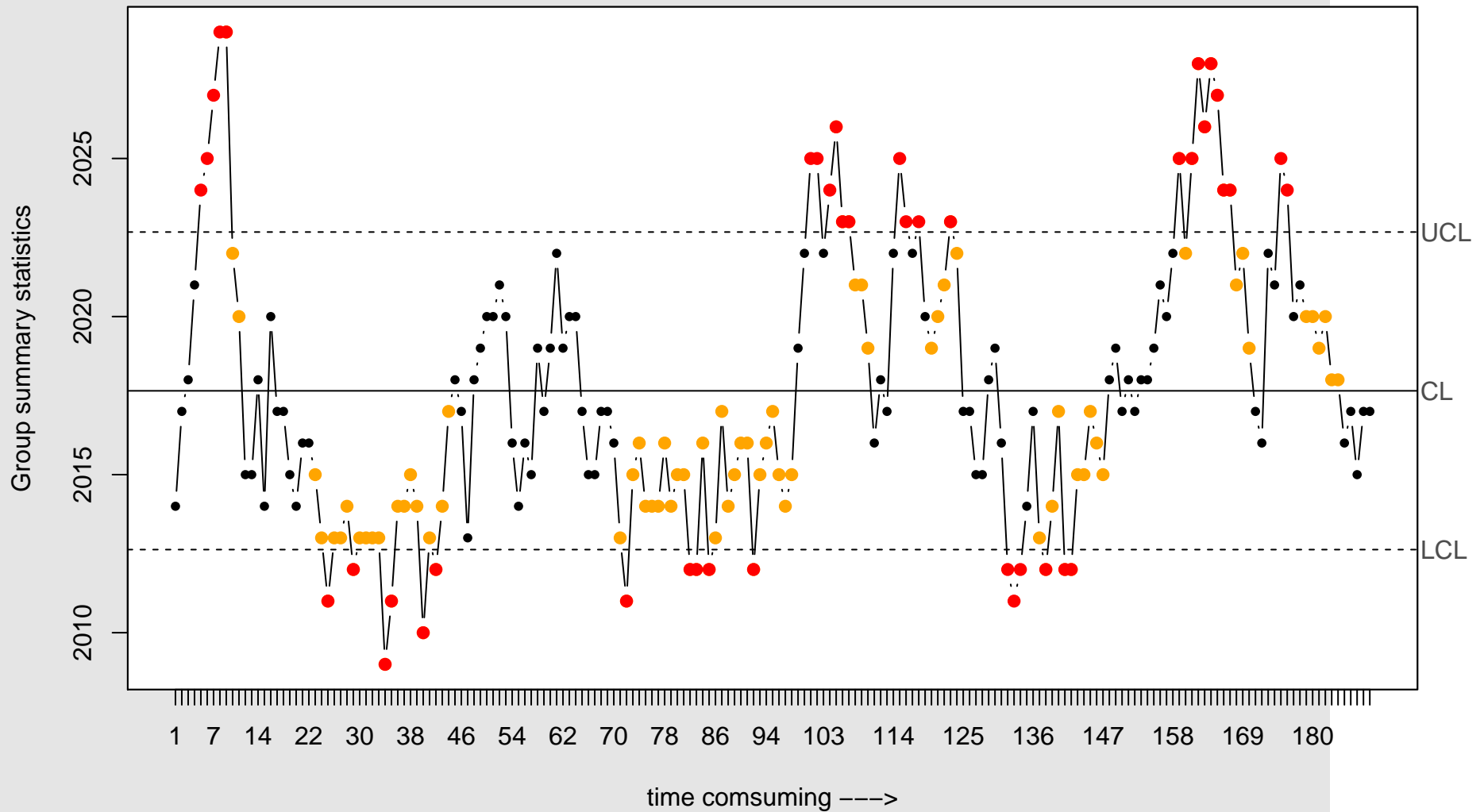


Number of groups = 189
 Center = 2018
 StdDev = 1.659876

LCL = 2013.02
 UCL = 2022.98

Number beyond limits = 47
 Number violating runs = 71

208th column point of this product



Number of groups = 189

Center = 2017.651

StdDev = 1.674023

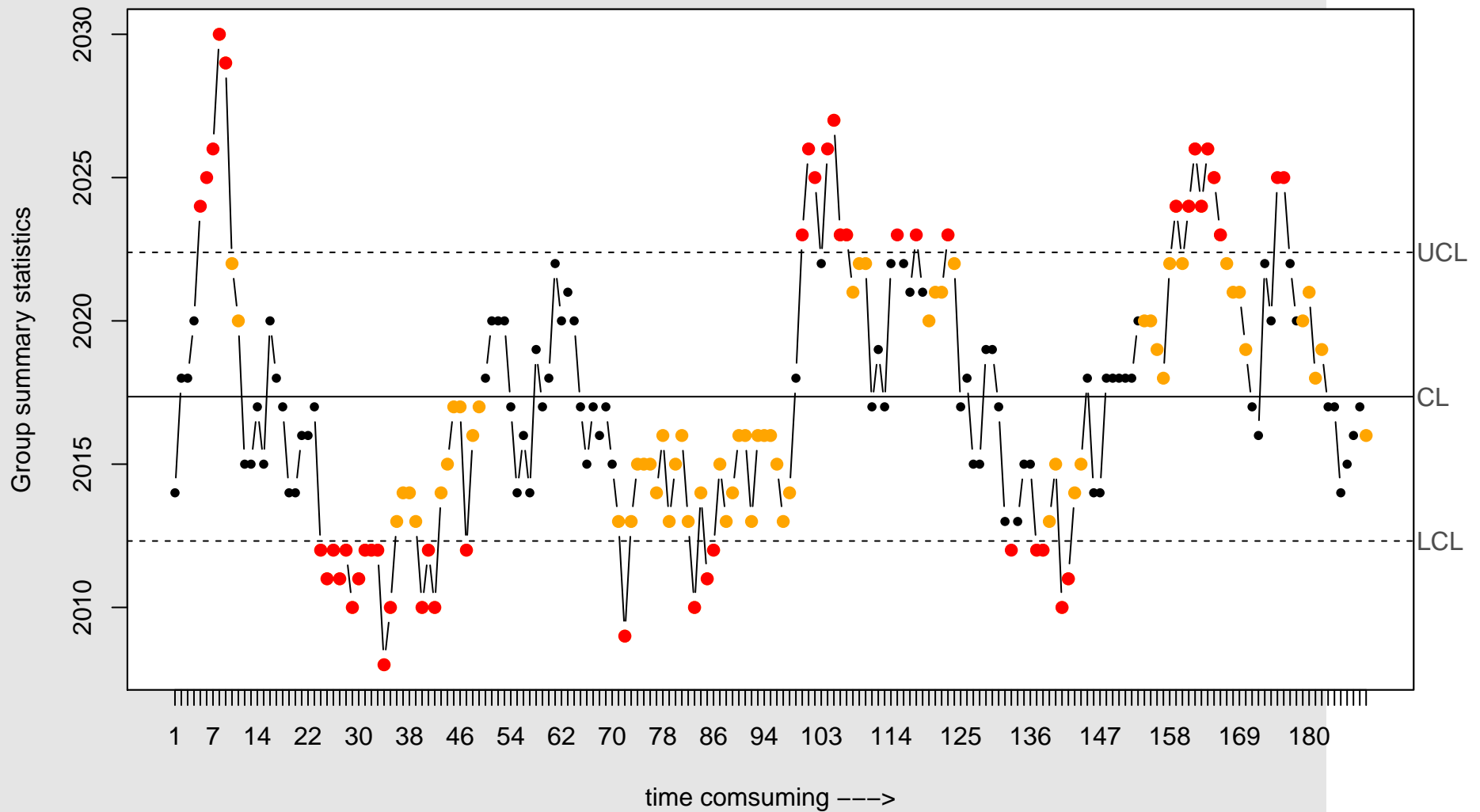
LCL = 2012.629

UCL = 2022.673

Number beyond limits = 42

Number violating runs = 93

209th column point of this product

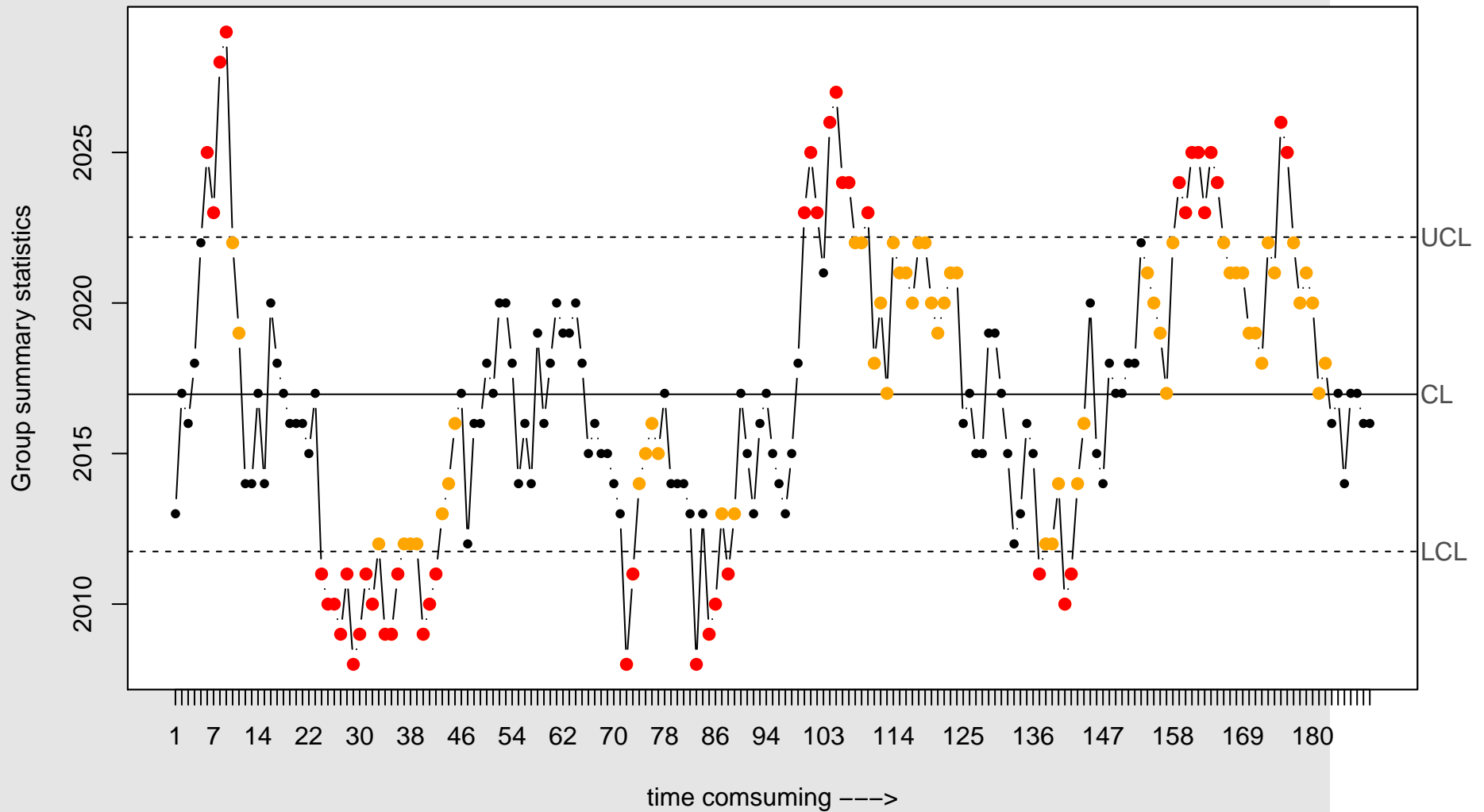


Number of groups = 189
 Center = 2017.354
 StdDev = 1.678738

LCL = 2012.318
 UCL = 2022.391

Number beyond limits = 49
 Number violating runs = 99

210th column point of this product

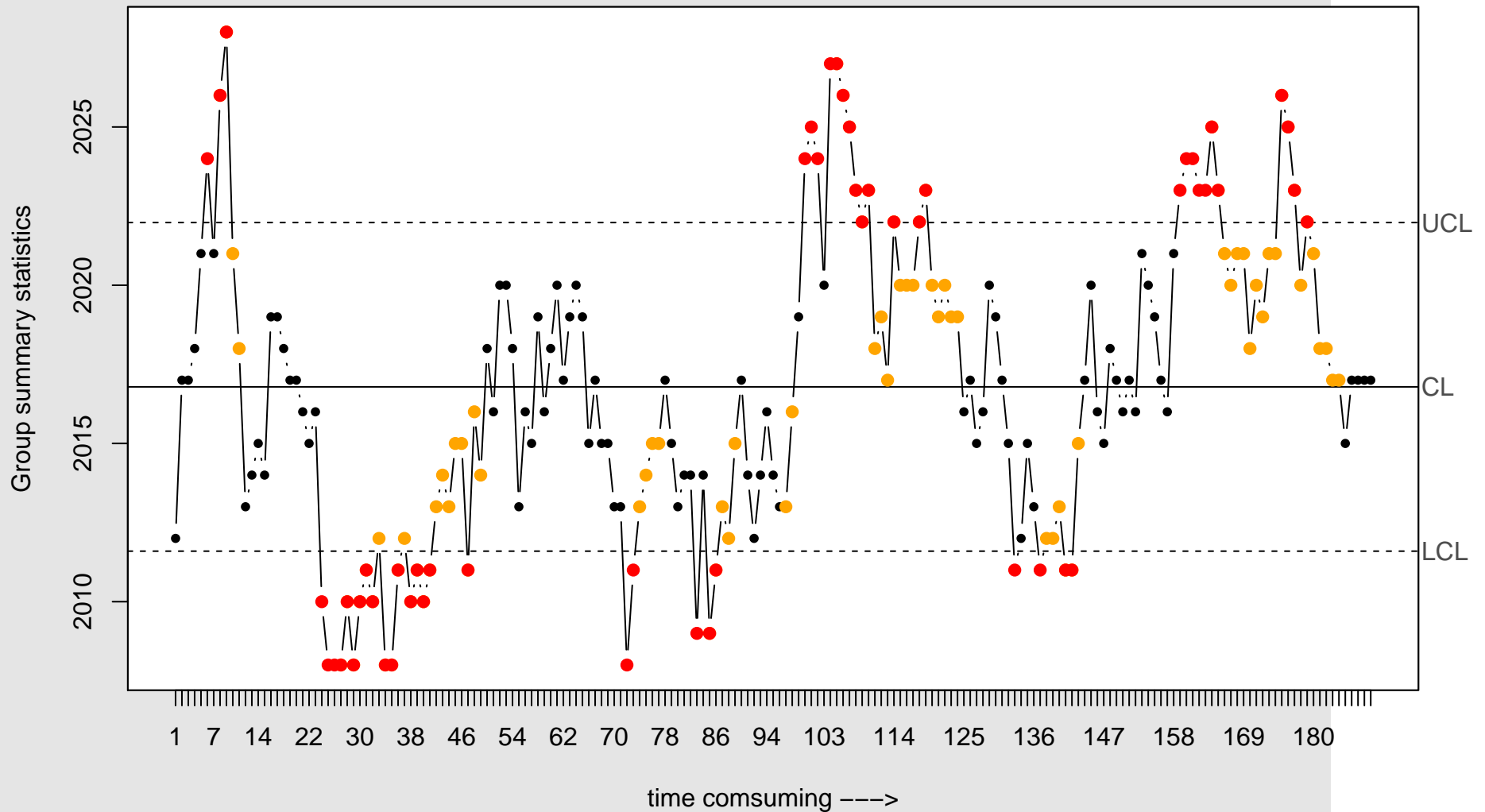


Number of groups = 189
 Center = 2016.968
 StdDev = 1.740041

LCL = 2011.748
 UCL = 2022.188

Number beyond limits = 45
 Number violating runs = 85

211th column point of this product

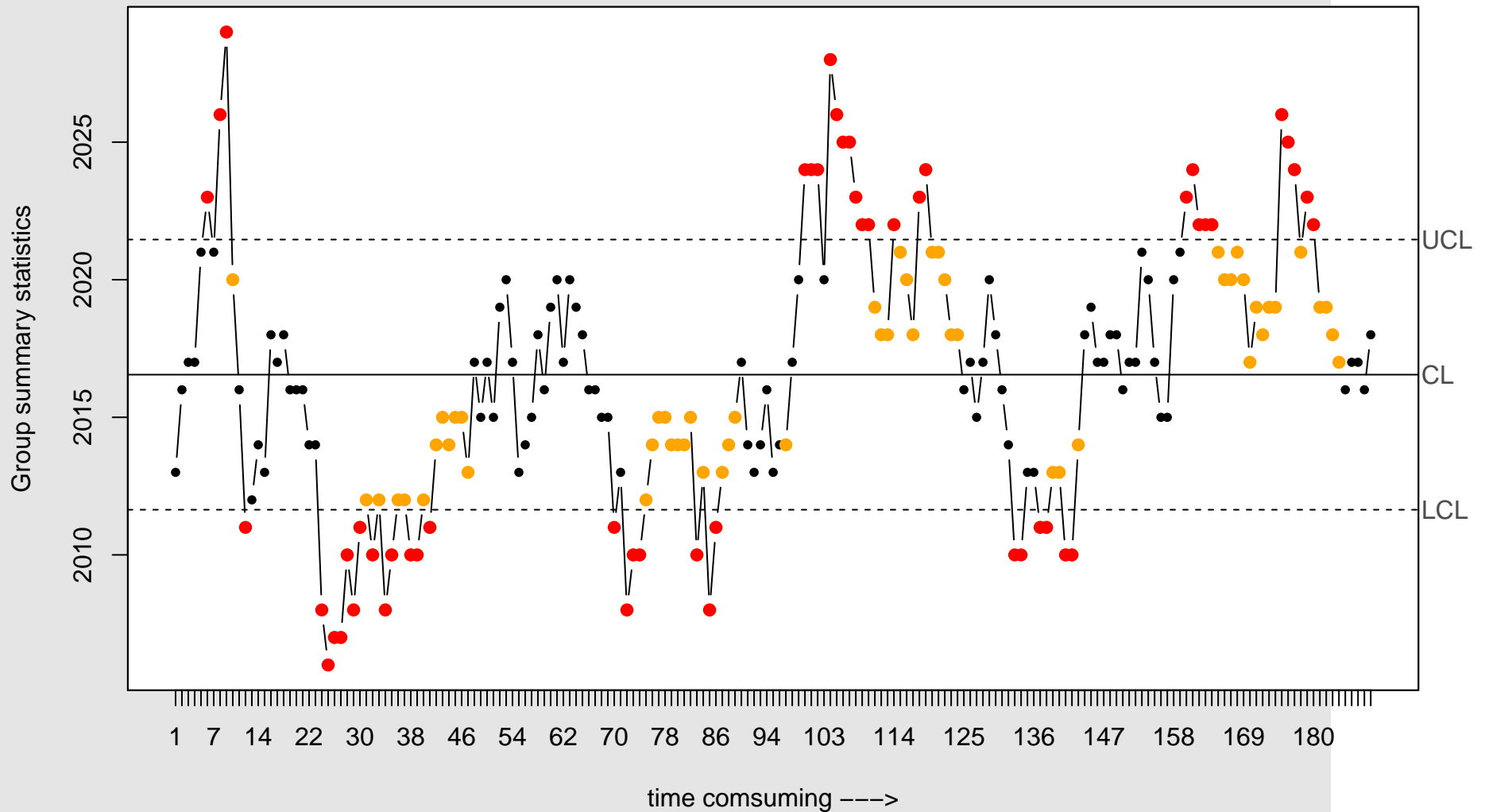


Number of groups = 189
 Center = 2016.788
 StdDev = 1.73061

LCL = 2011.597
 UCL = 2021.98

Number beyond limits = 53
 Number violating runs = 85

212th column point of this product



Number of groups = 189

Center = 2016.55

StdDev = 1.636298

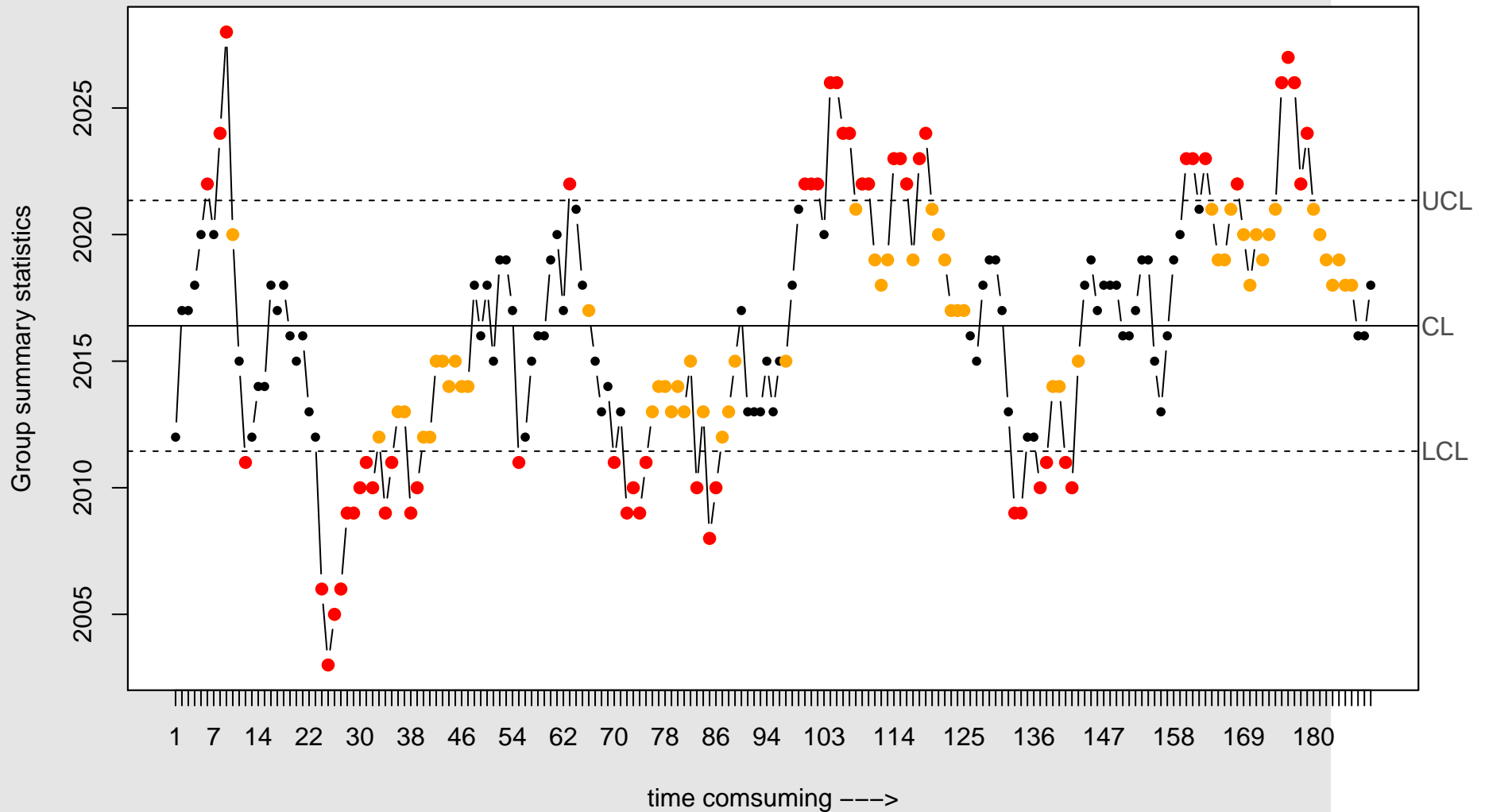
LCL = 2011.641

UCL = 2021.459

Number beyond limits = 53

Number violating runs = 93

213th column point of this product



Number of groups = 189

Center = 2016.397

StdDev = 1.650445

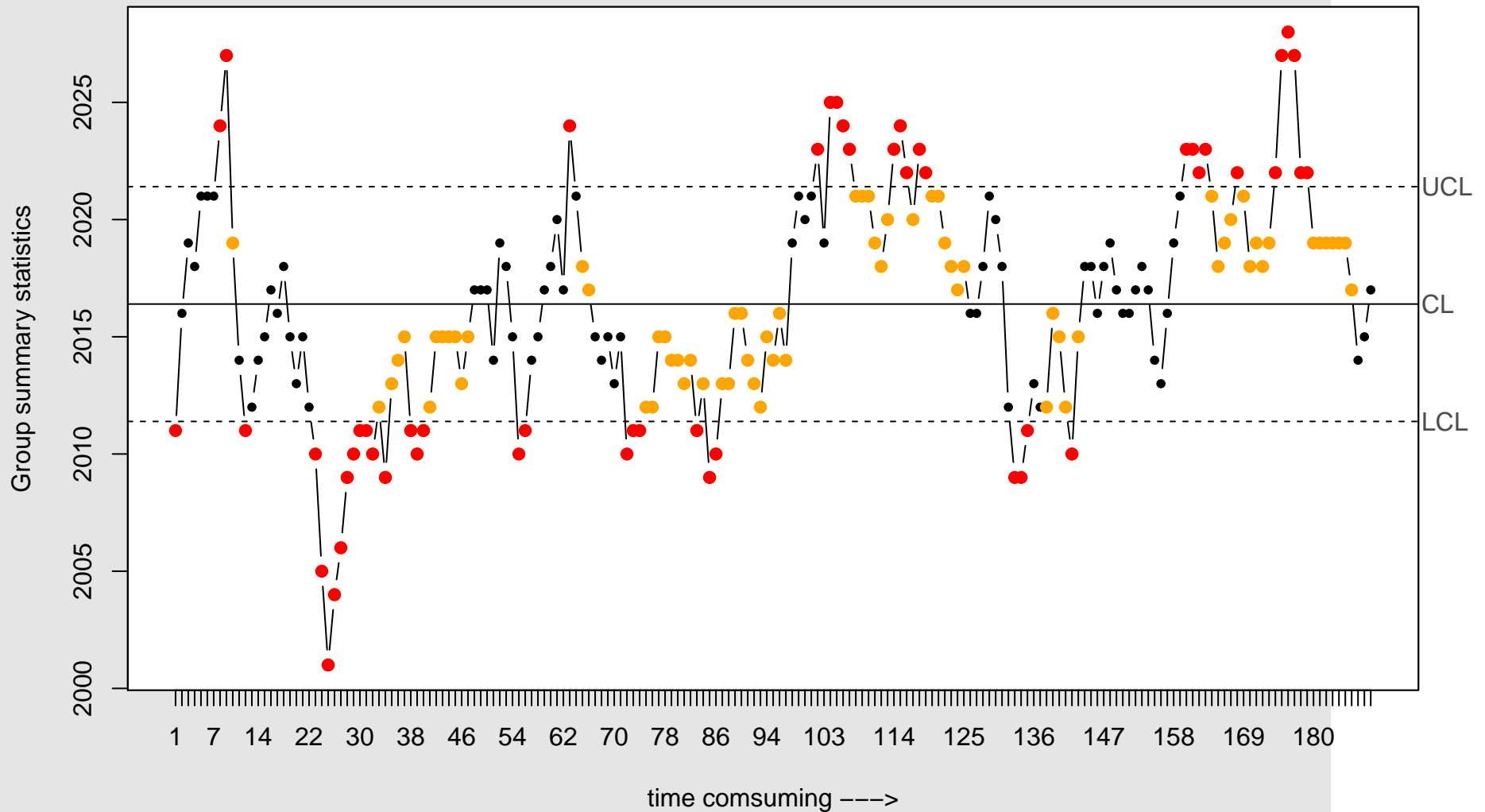
LCL = 2011.445

UCL = 2021.348

Number beyond limits = 56

Number violating runs = 96

214th column point of this product

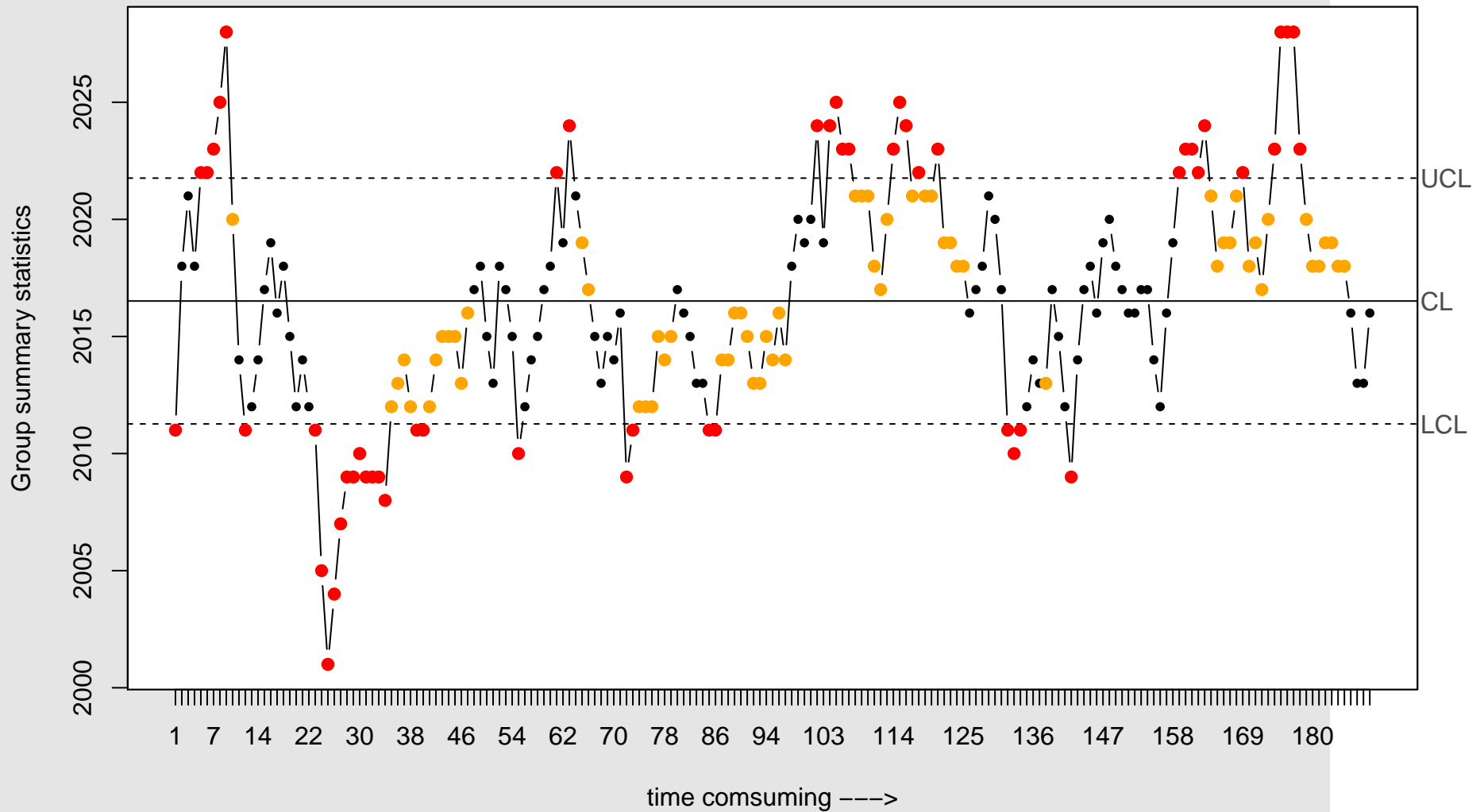


Number of groups = 189
Center = 2016.397
StdDev = 1.669307

LCL = 2011.389
UCL = 2021.405

Number beyond limits = 52
Number violating runs = 103

215th column point of this product



Number of groups = 189

Center = 2016.513

StdDev = 1.749472

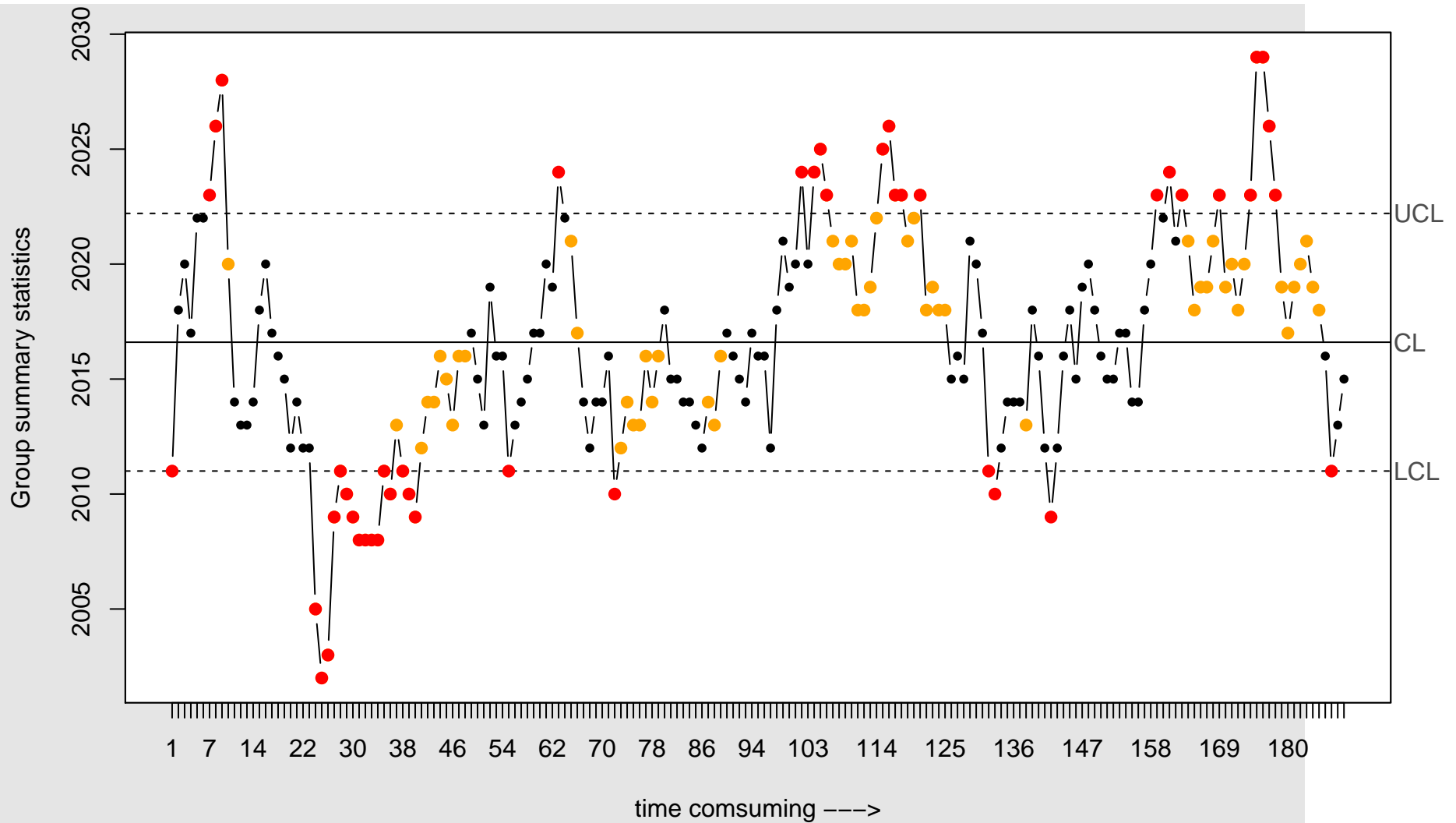
LCL = 2011.265

UCL = 2021.762

Number beyond limits = 53

Number violating runs = 91

216th column point of this product

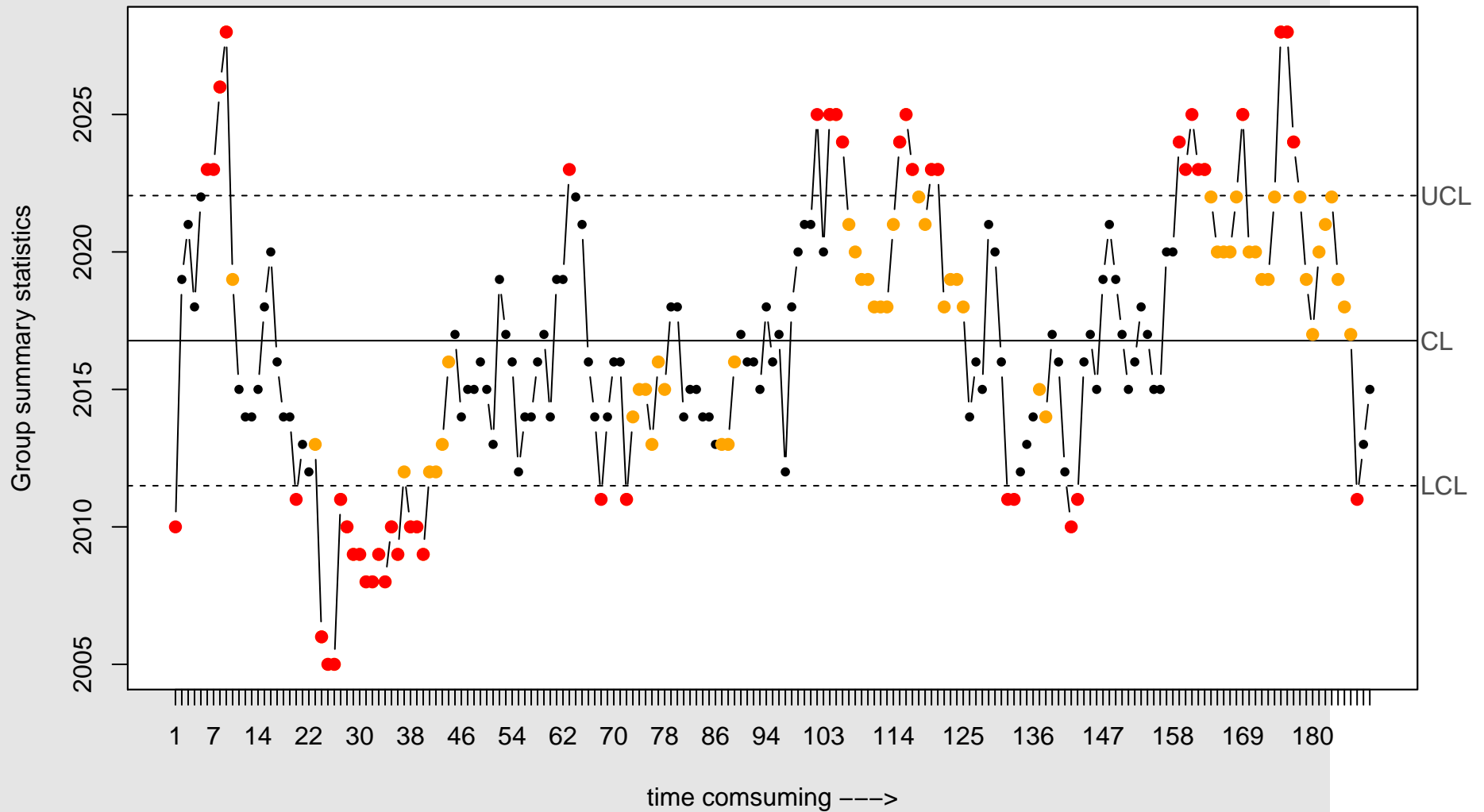


Number of groups = 189
 Center = 2016.603
 StdDev = 1.867361

LCL = 2011.001
 UCL = 2022.205

Number beyond limits = 45
 Number violating runs = 86

217th column point of this product

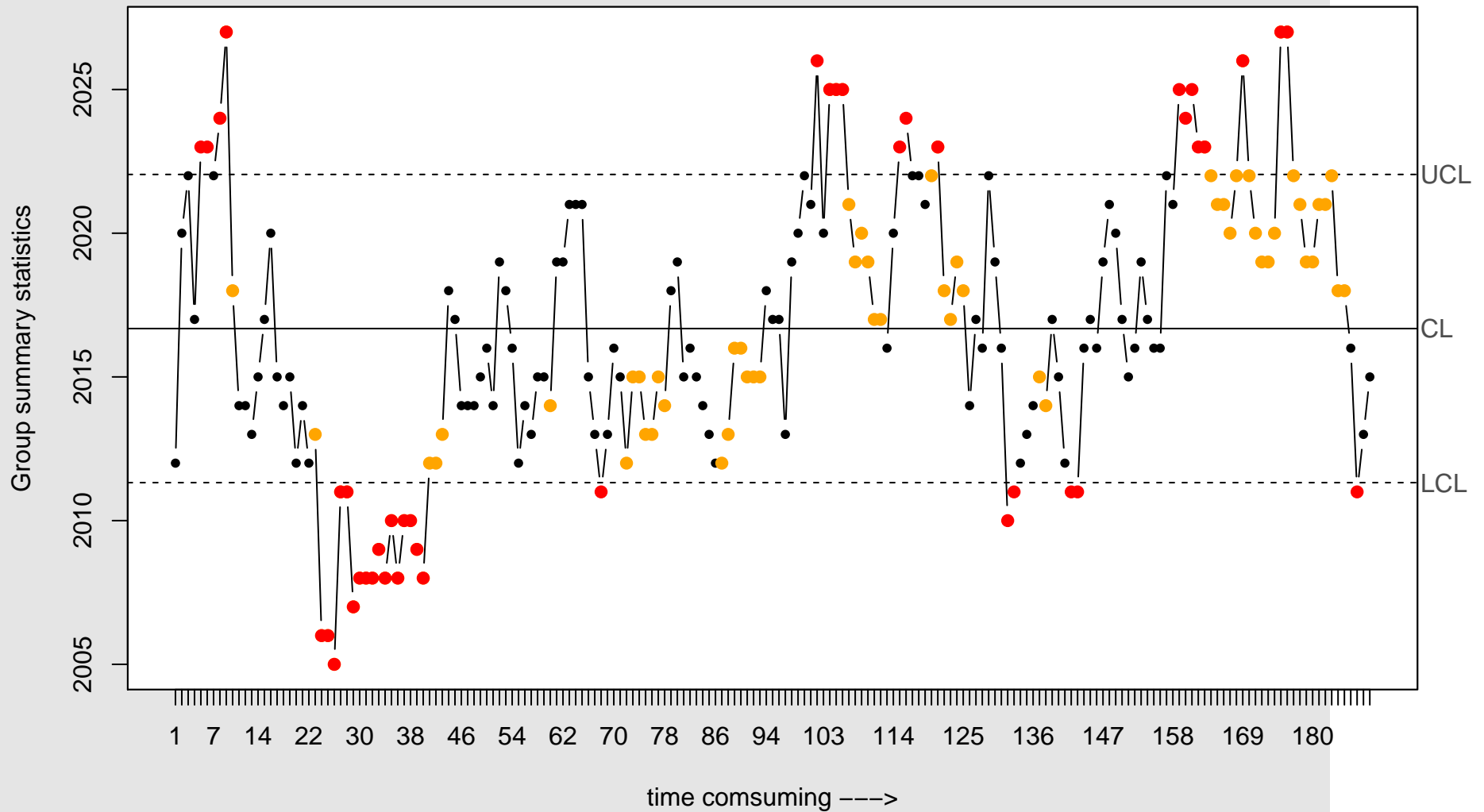


Number of groups = 189
 Center = 2016.772
 StdDev = 1.758903

LCL = 2011.496
 UCL = 2022.049

Number beyond limits = 48
 Number violating runs = 83

218th column point of this product

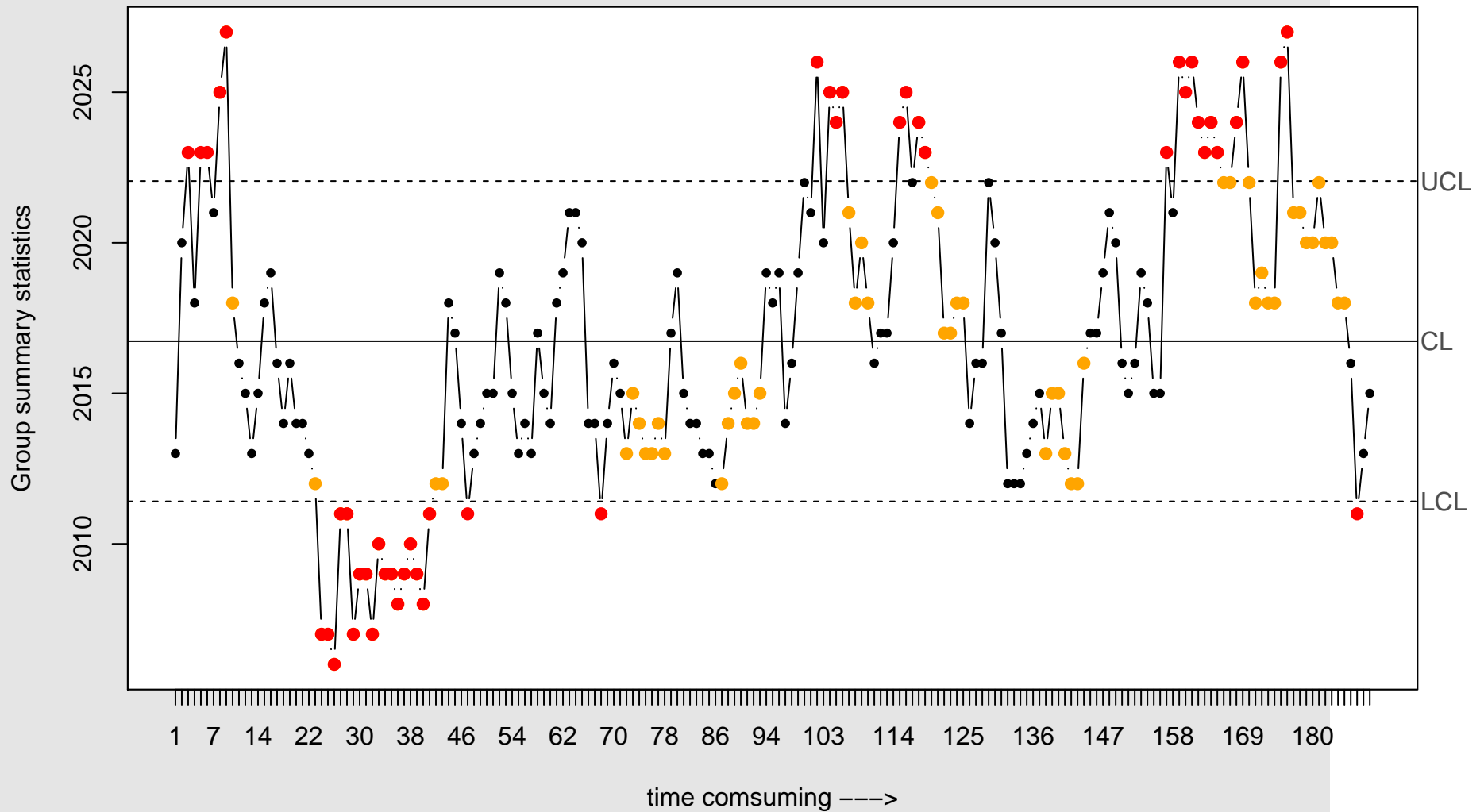


Number of groups = 189
Center = 2016.683
StdDev = 1.787196

LCL = 2011.321
UCL = 2022.044

Number beyond limits = 42
Number violating runs = 79

219th column point of this product



Number of groups = 189

Center = 2016.73

StdDev = 1.77305

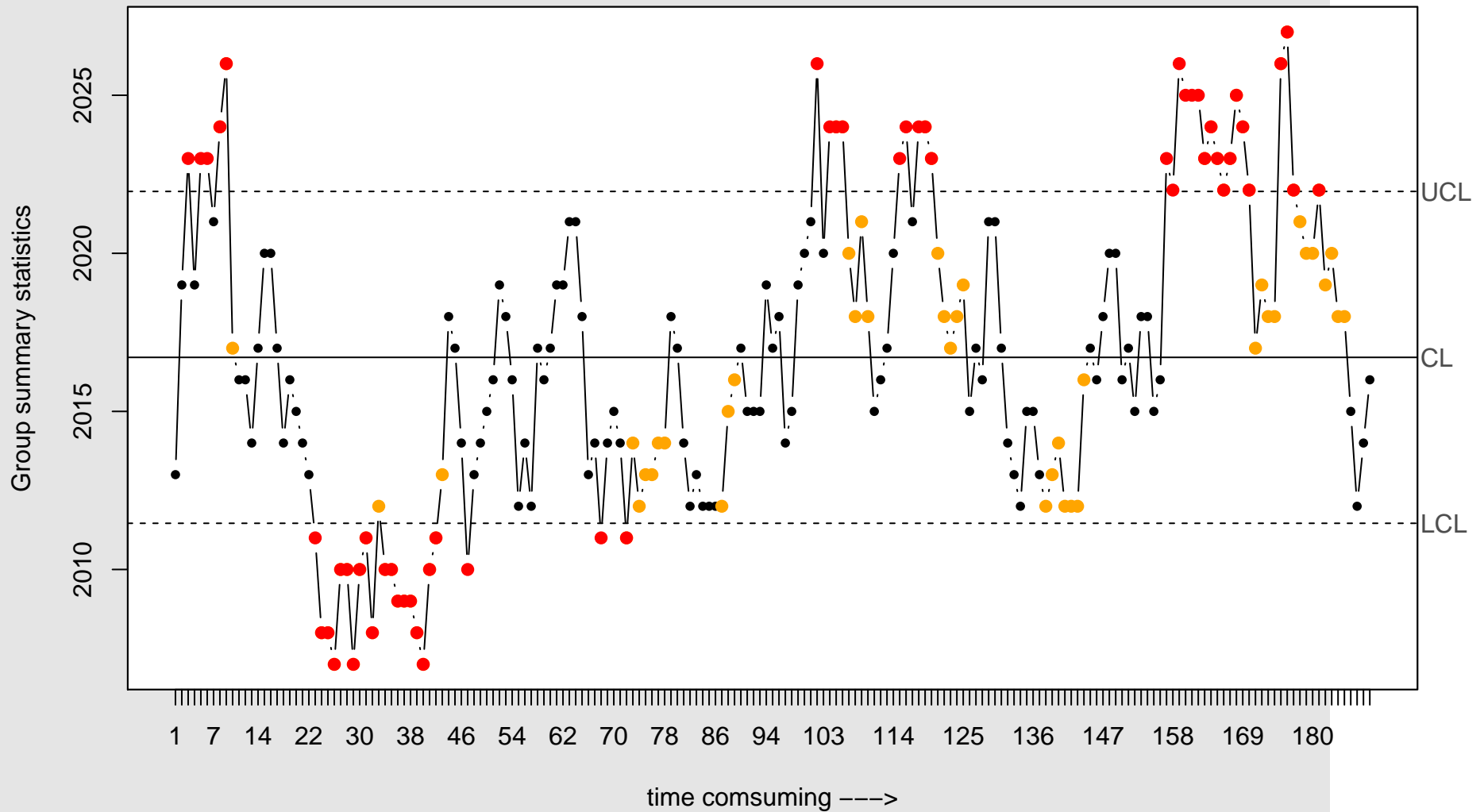
LCL = 2011.411

UCL = 2022.049

Number beyond limits = 46

Number violating runs = 82

220th column point of this product



Number of groups = 189

Center = 2016.709

StdDev = 1.749472

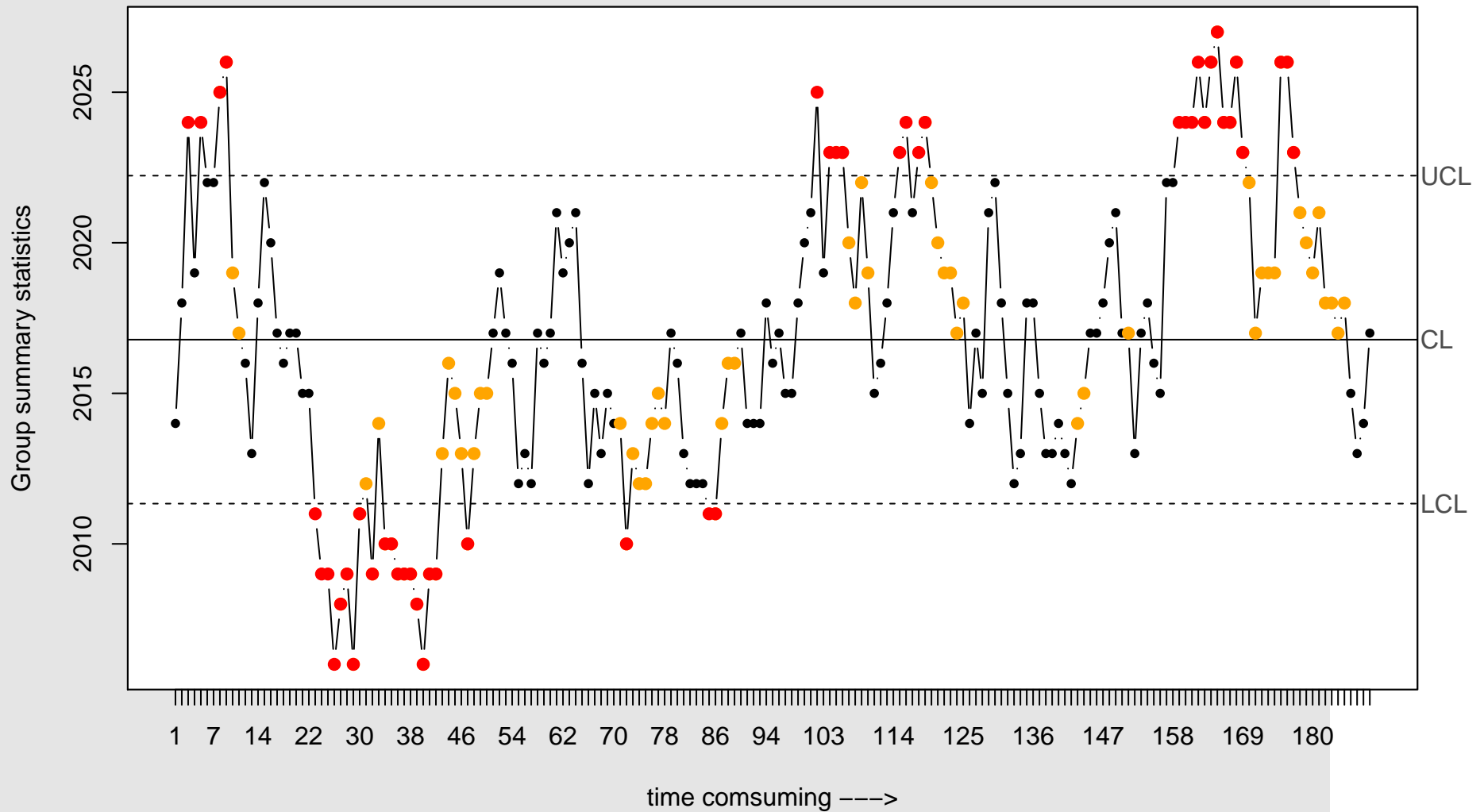
LCL = 2011.461

UCL = 2021.957

Number beyond limits = 54

Number violating runs = 76

221th column point of this product



Number of groups = 189

Center = 2016.783

StdDev = 1.81549

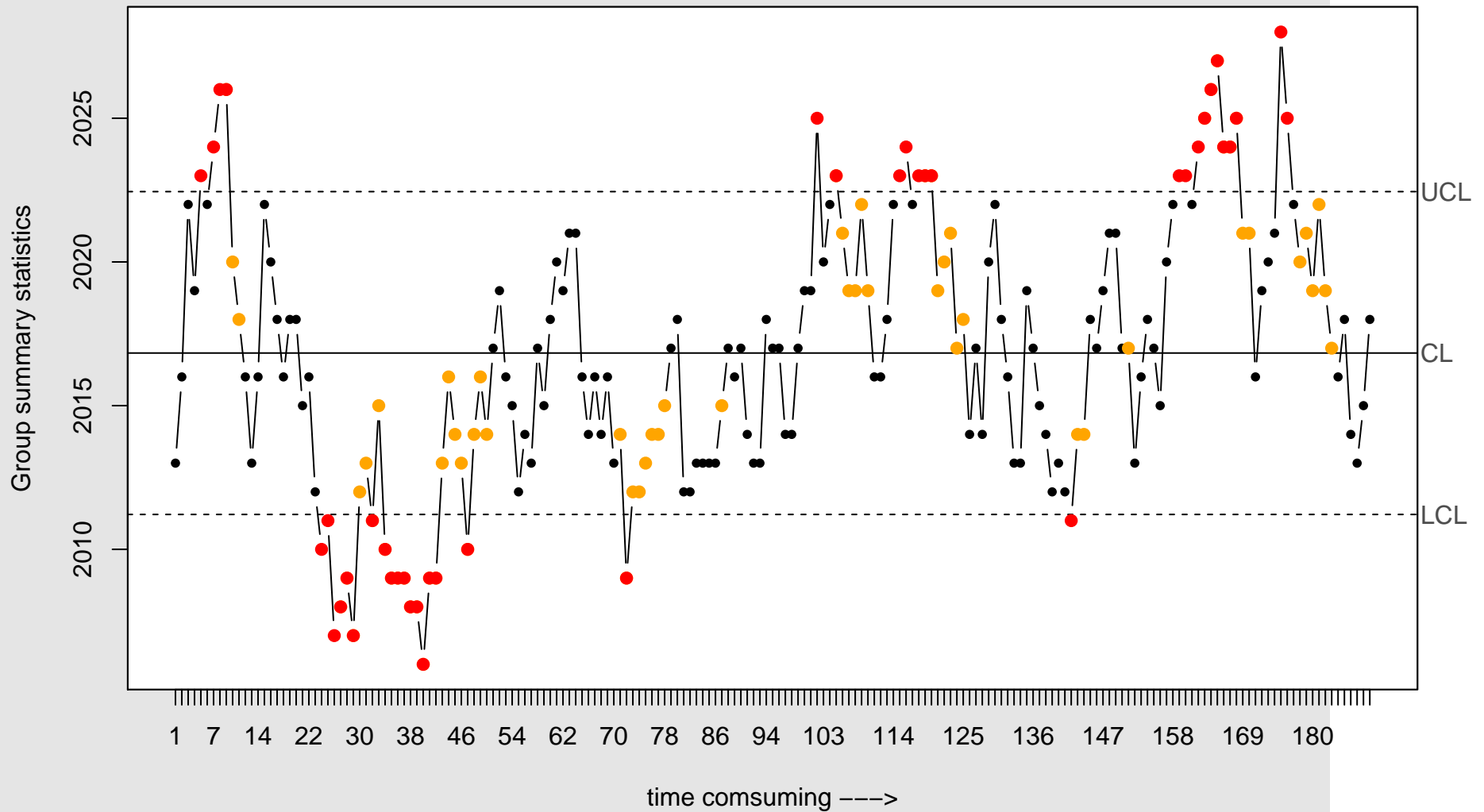
LCL = 2011.337

UCL = 2022.23

Number beyond limits = 48

Number violating runs = 79

222th column point of this product



Number of groups = 189

Center = 2016.831

StdDev = 1.872076

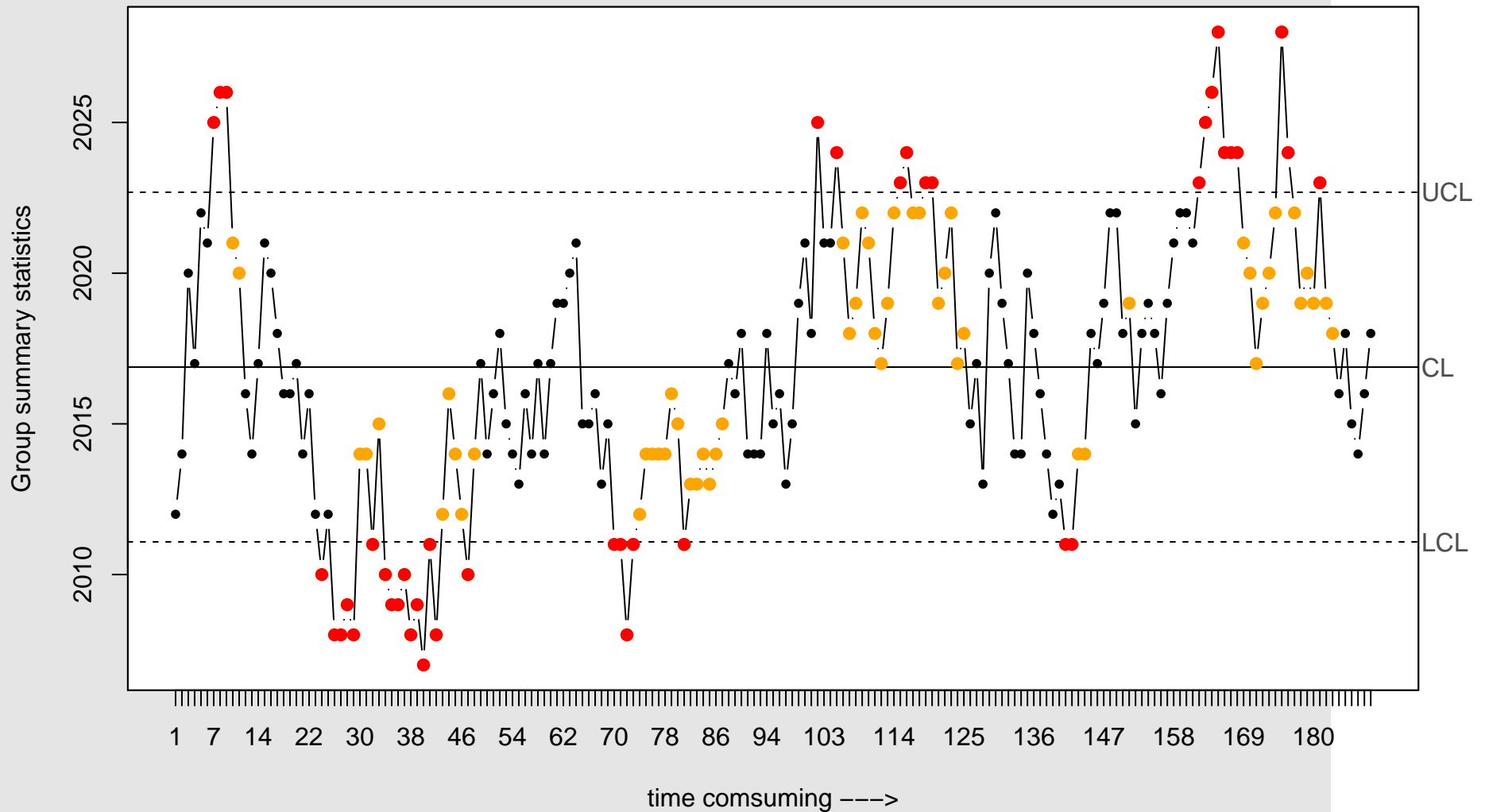
LCL = 2011.214

UCL = 2022.447

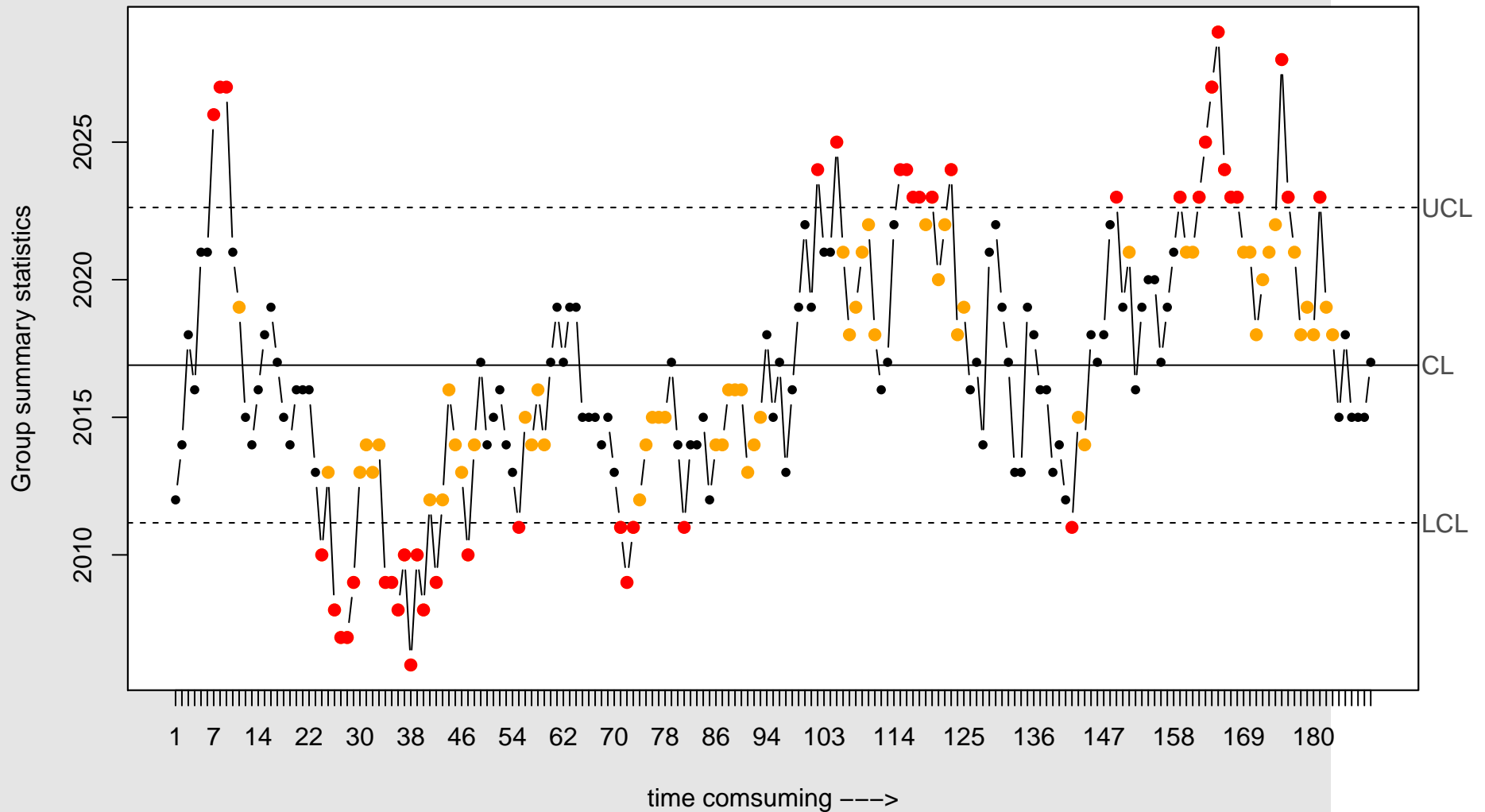
Number beyond limits = 41

Number violating runs = 66

223th column point of this product



224th column point of this product



Number of groups = 189

Center = 2016.894

StdDev = 1.909801

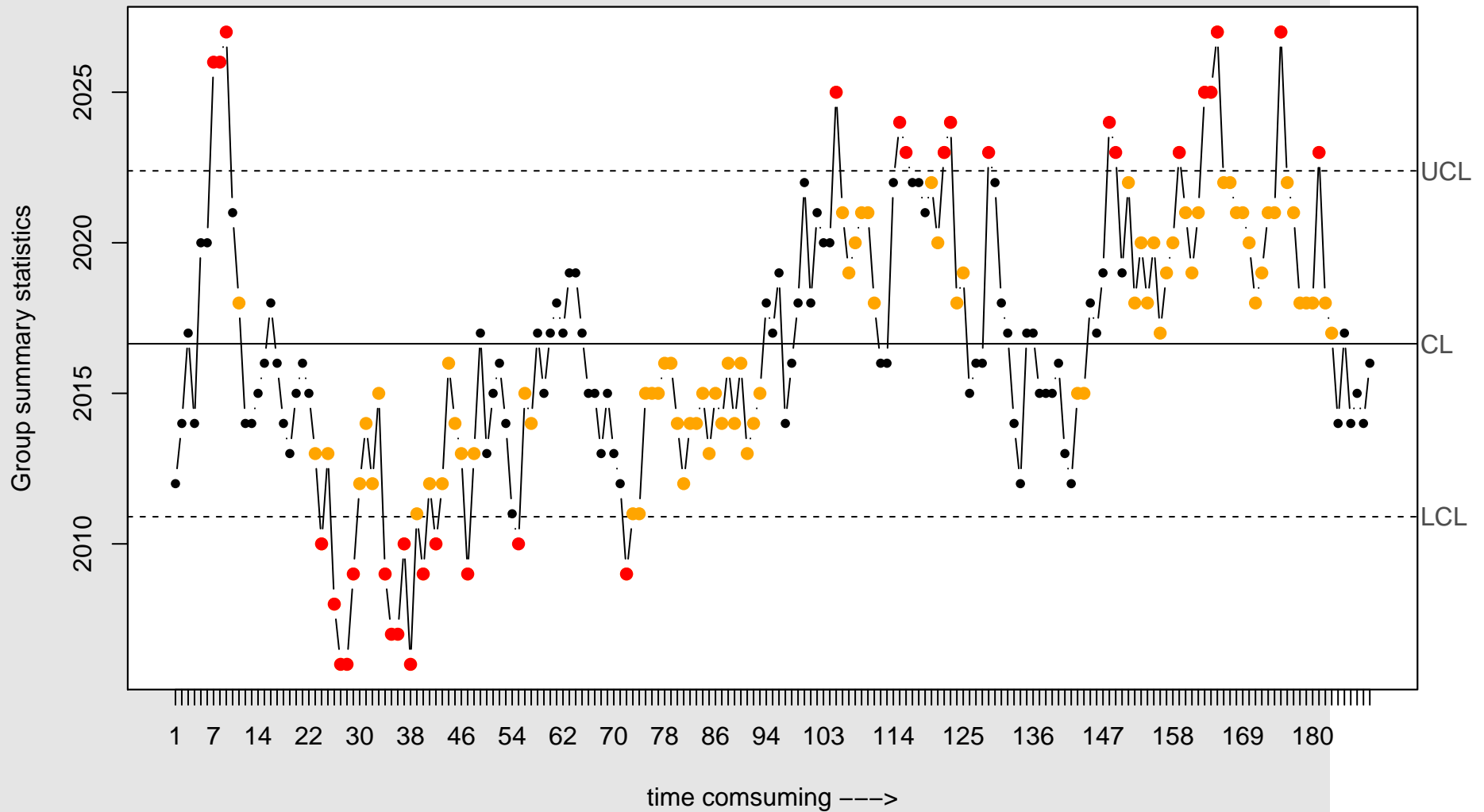
LCL = 2011.165

UCL = 2022.624

Number beyond limits = 43

Number violating runs = 88

225th column point of this product



Number of groups = 189

Center = 2016.646

StdDev = 1.914516

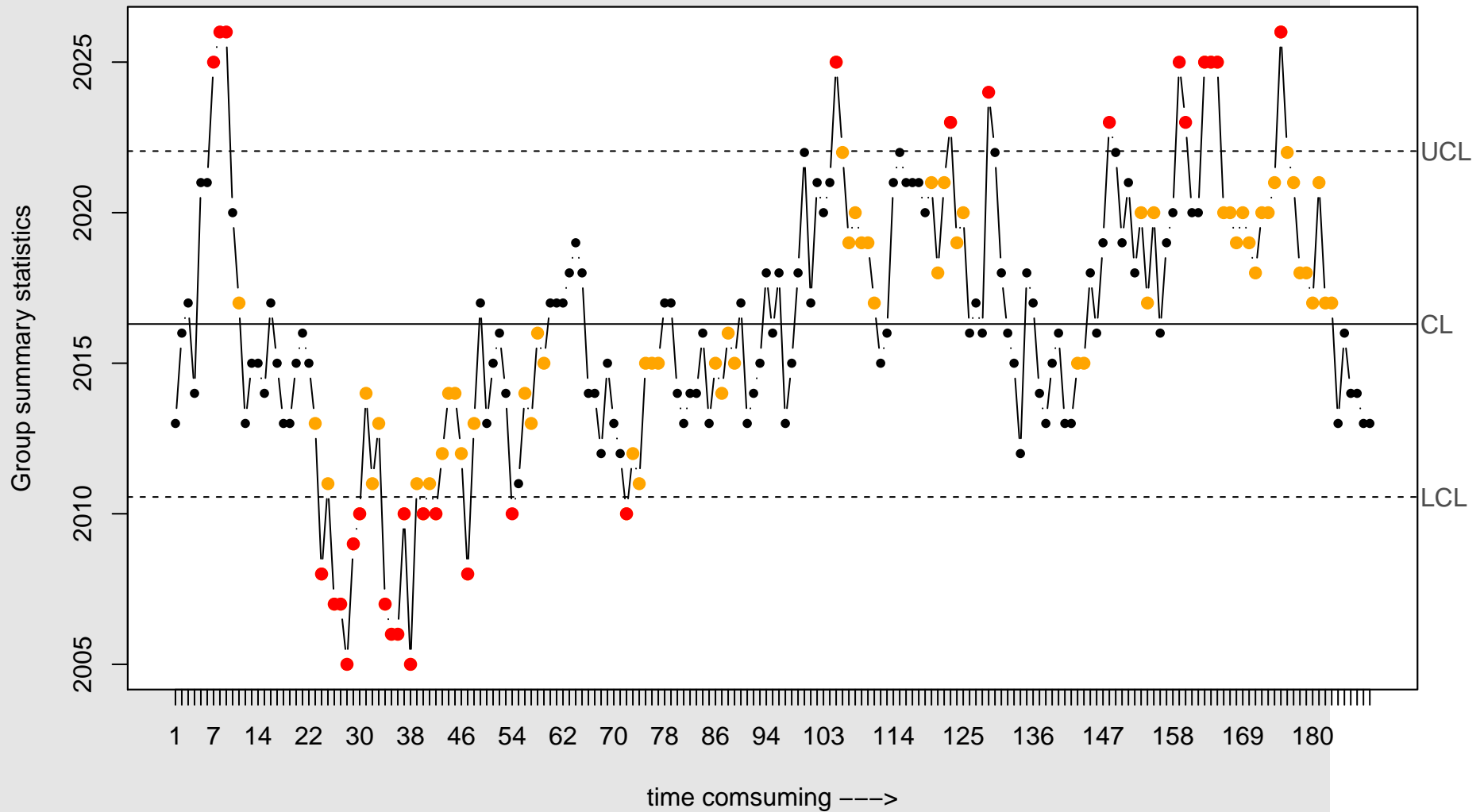
LCL = 2010.902

UCL = 2022.389

Number beyond limits = 32

Number violating runs = 99

226th column point of this product

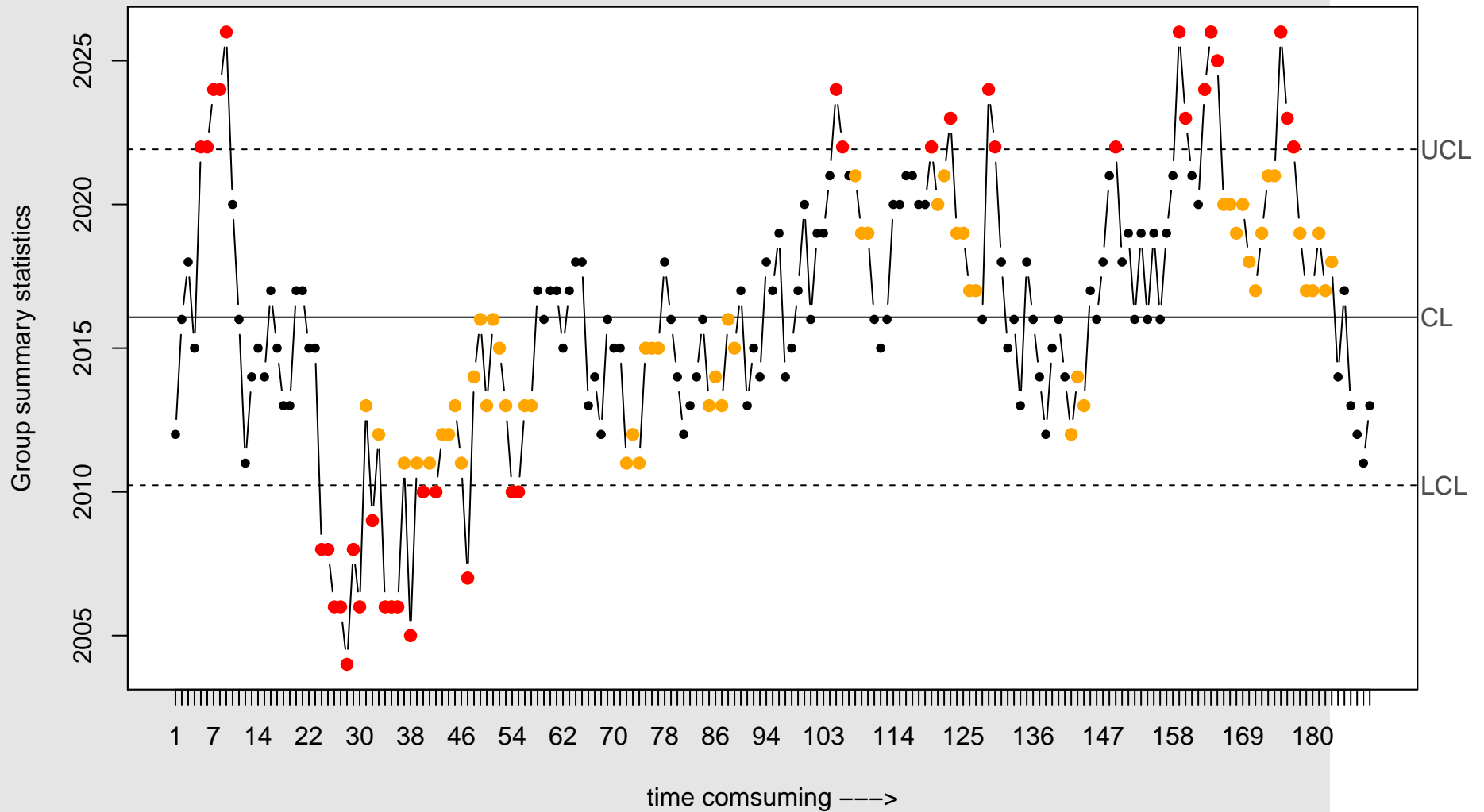


Number of groups = 189
Center = 2016.302
StdDev = 1.914516

LCL = 2010.558
UCL = 2022.045

Number beyond limits = 29
Number violating runs = 80

227th column point of this product

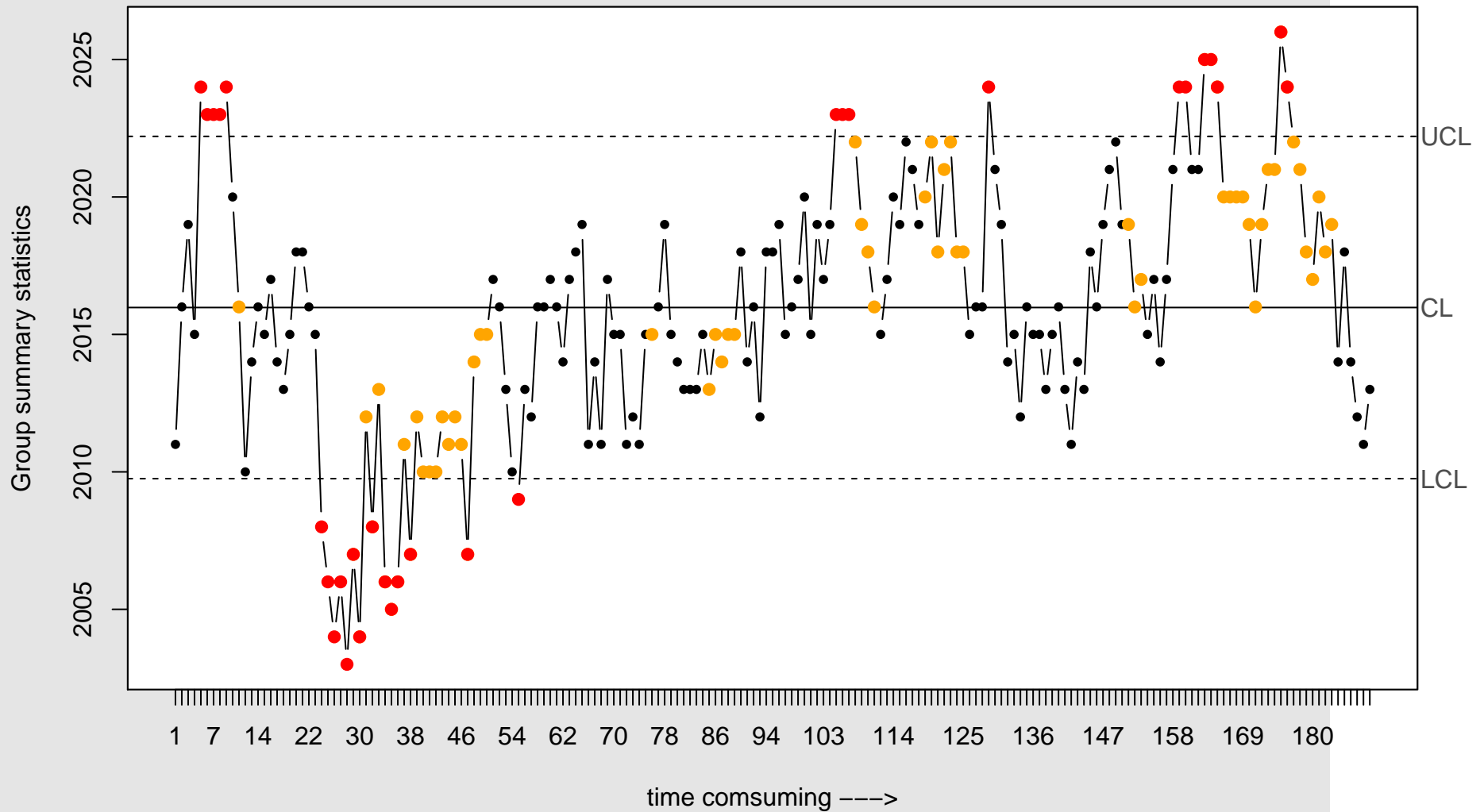


Number of groups = 189
Center = 2016.074
StdDev = 1.947525

LCL = 2010.231
UCL = 2021.917

Number beyond limits = 37
Number violating runs = 76

228th column point of this product



Number of groups = 189

Center = 2015.979

StdDev = 2.074845

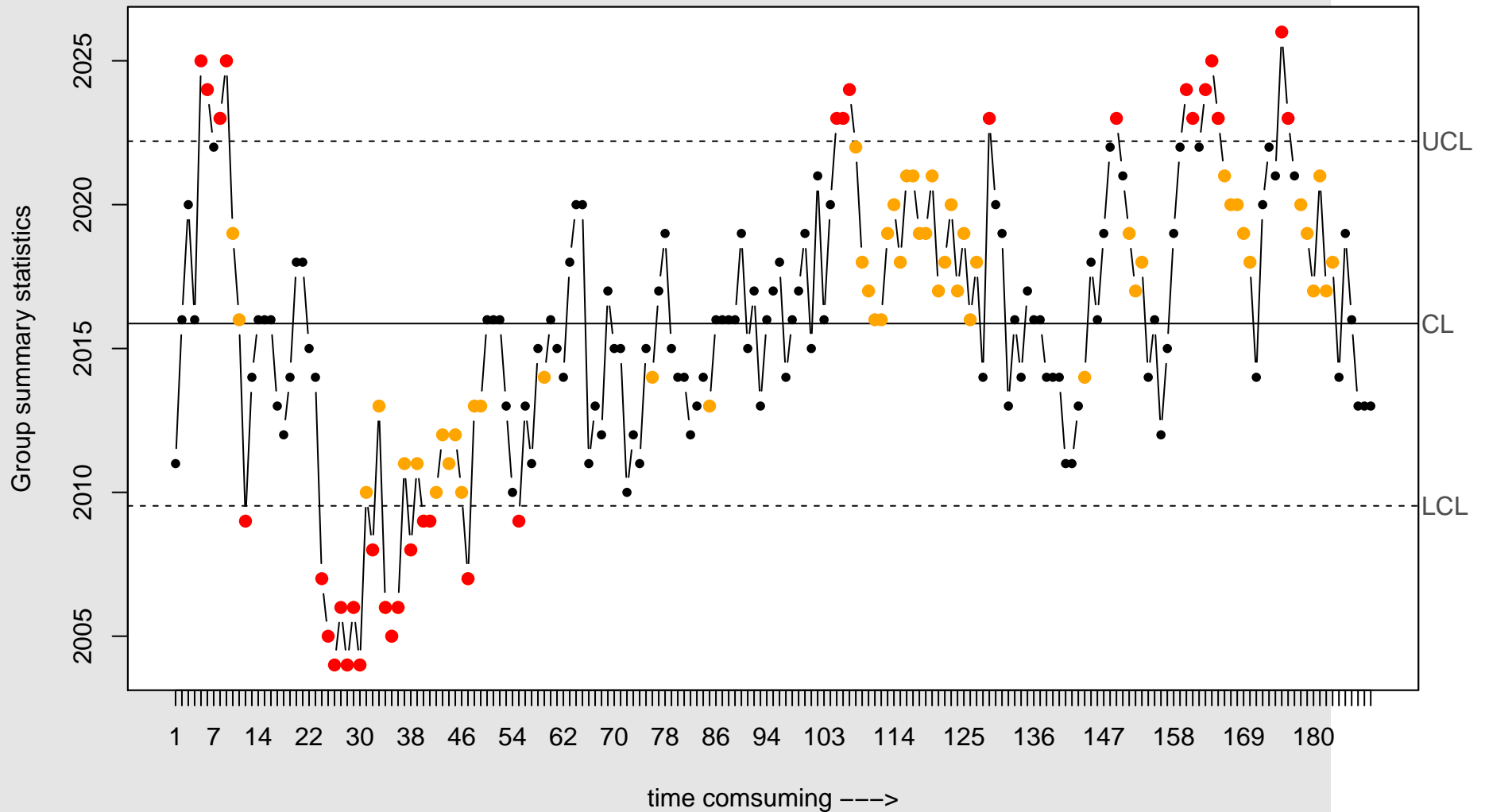
LCL = 2009.754

UCL = 2022.203

Number beyond limits = 30

Number violating runs = 64

229th column point of this product

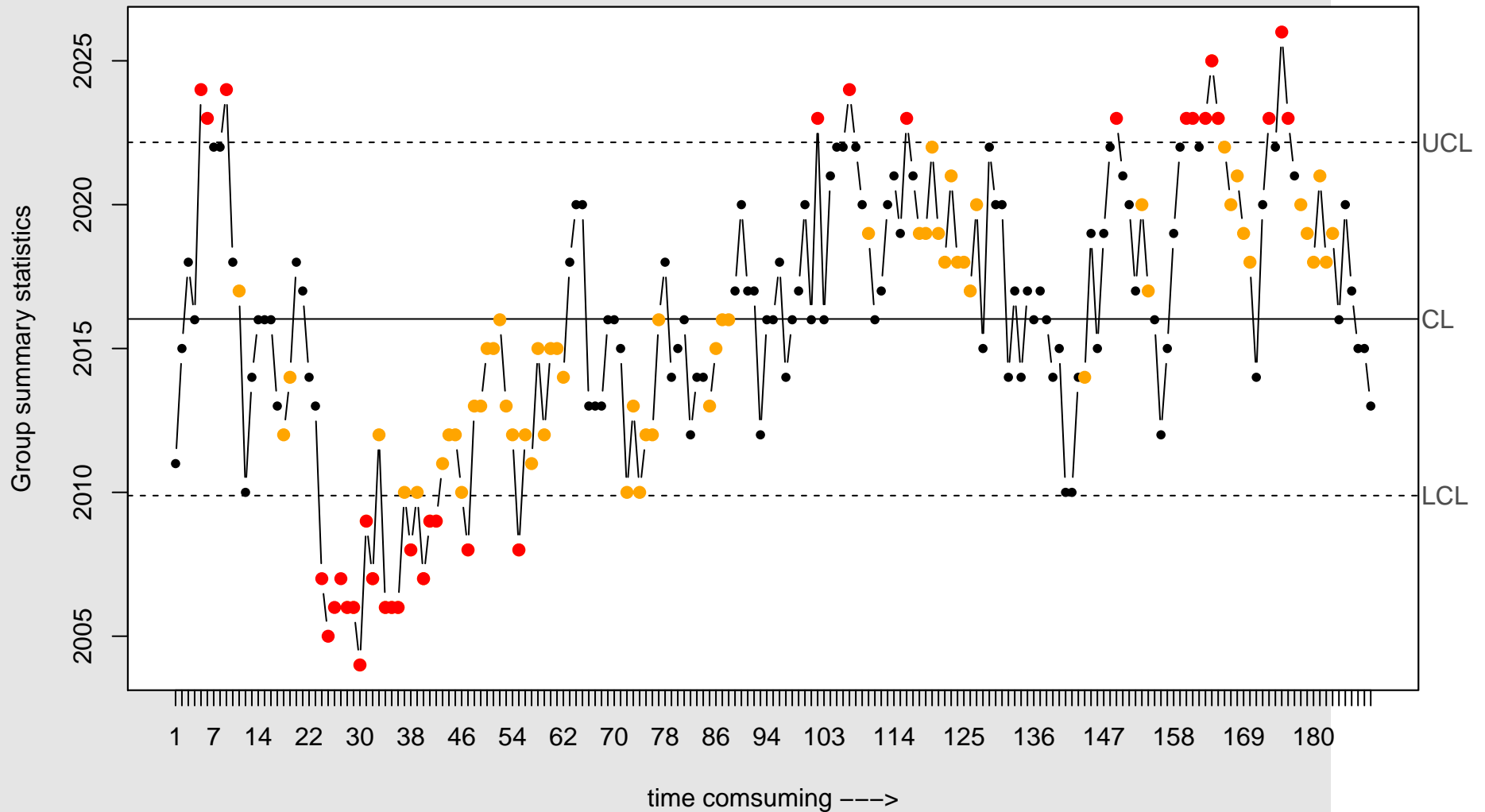


Number of groups = 189
 Center = 2015.868
 StdDev = 2.11257

LCL = 2009.53
 UCL = 2022.205

Number beyond limits = 33
 Number violating runs = 66

230th column point of this product

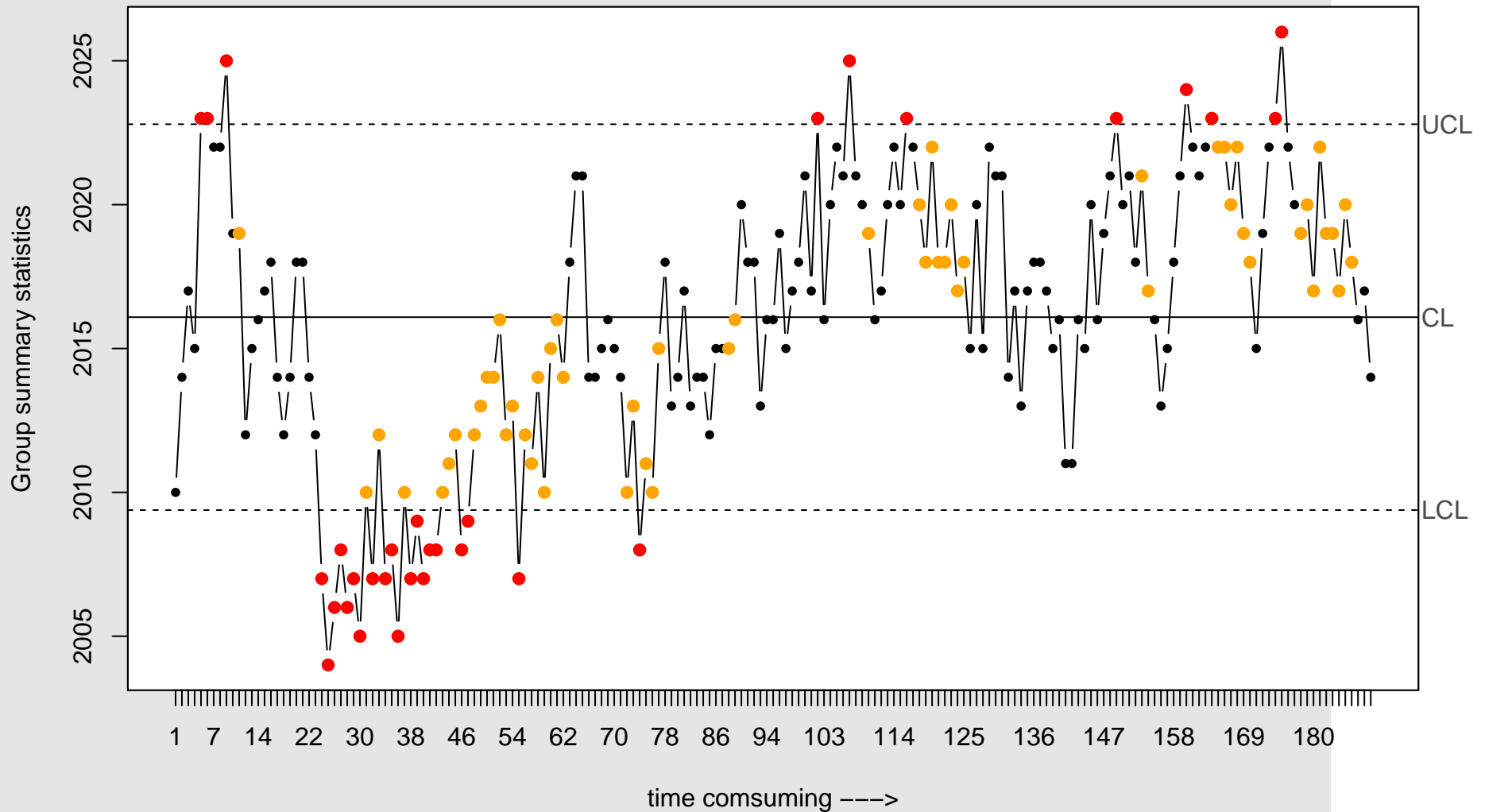


Number of groups = 189
 Center = 2016.026
 StdDev = 2.046552

LCL = 2009.887
 UCL = 2022.166

Number beyond limits = 33
 Number violating runs = 75

231th column point of this product



Number of groups = 189

Center = 2016.09

StdDev = 2.235174

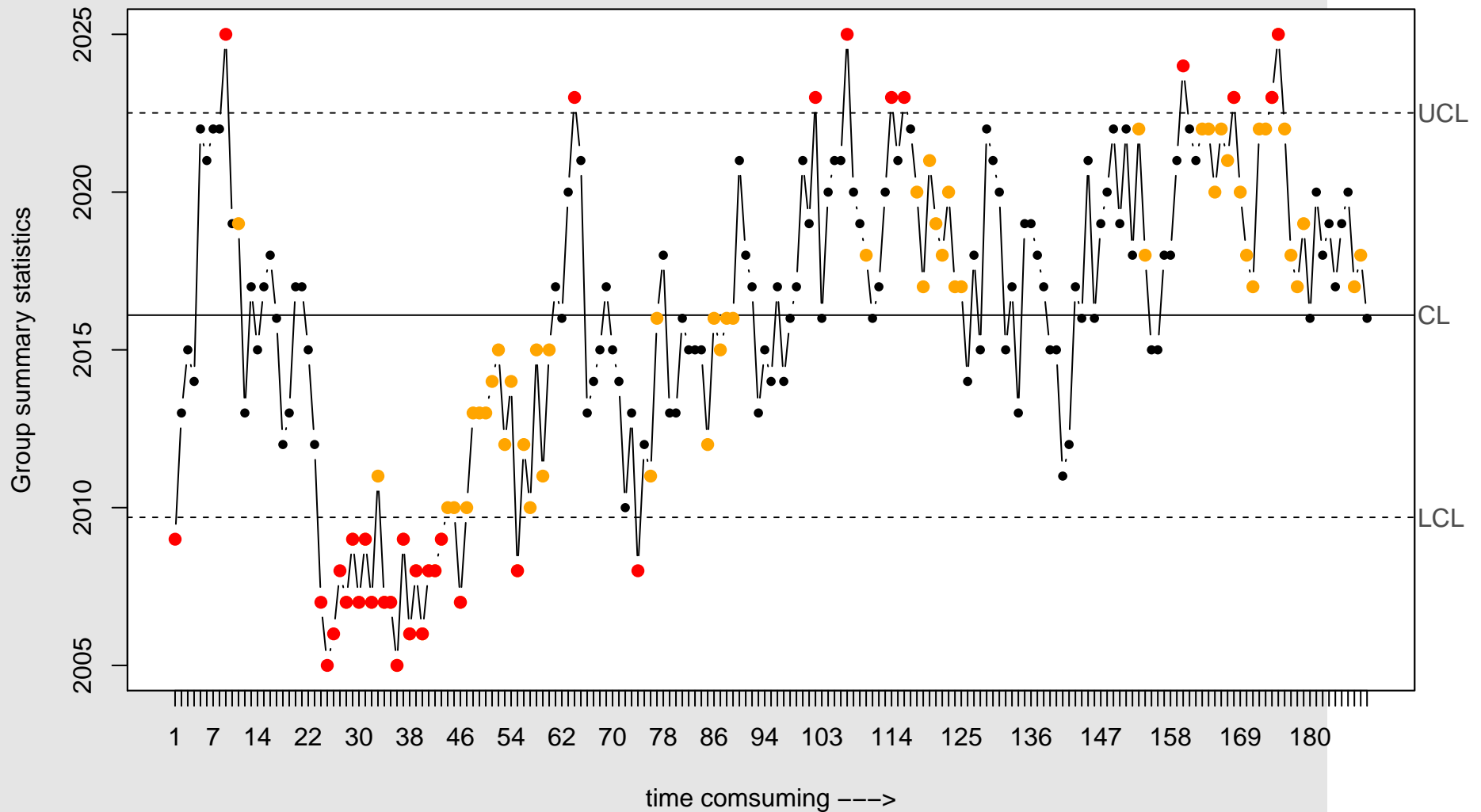
LCL = 2009.384

UCL = 2022.795

Number beyond limits = 31

Number violating runs = 71

232th column point of this product

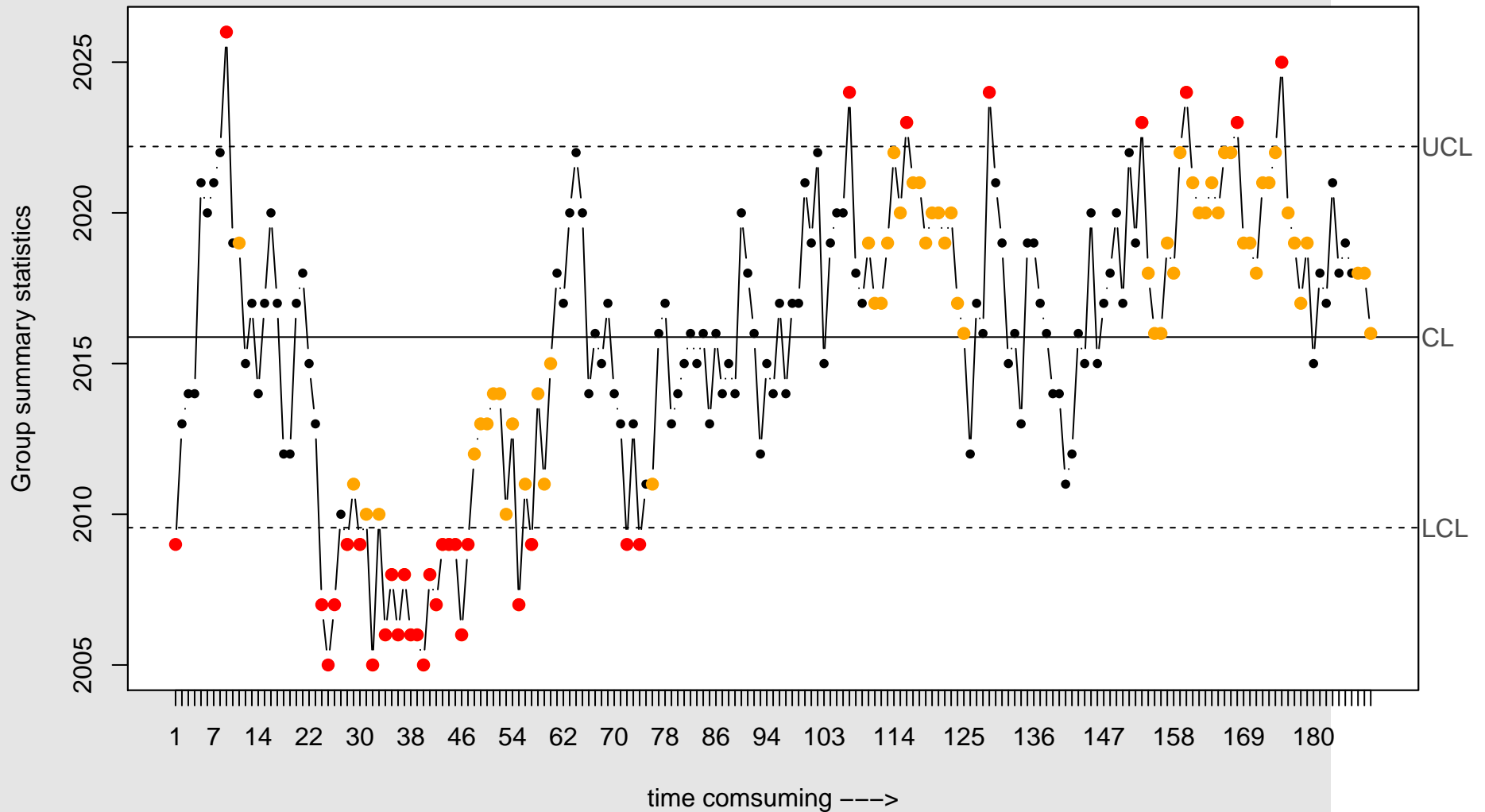


Number of groups = 189
 Center = 2016.101
 StdDev = 2.136148

LCL = 2009.692
 UCL = 2022.509

Number beyond limits = 33
 Number violating runs = 71

233th column point of this product



Number of groups = 189

Center = 2015.878

StdDev = 2.107854

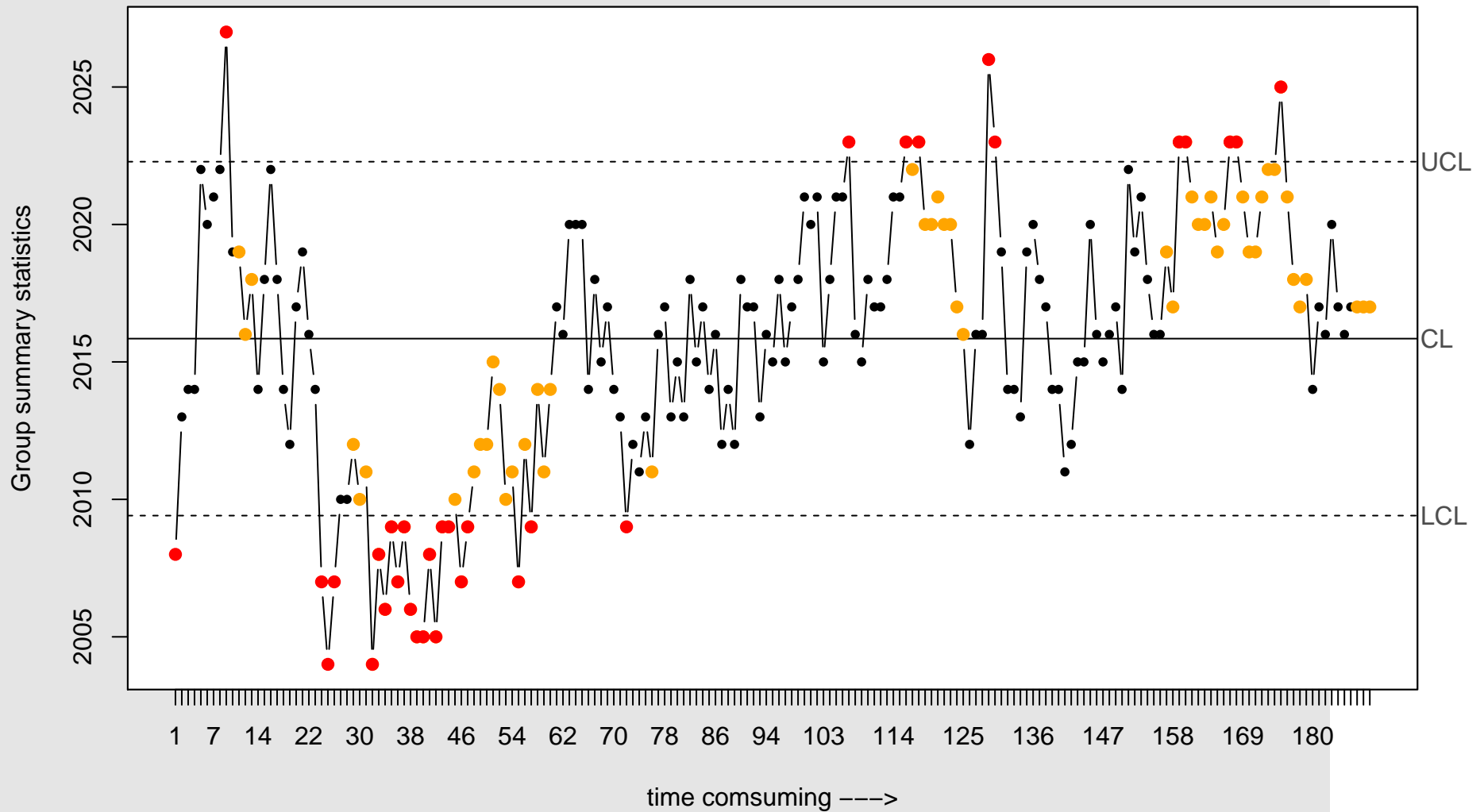
LCL = 2009.555

UCL = 2022.202

Number beyond limits = 33

Number violating runs = 81

234th column point of this product

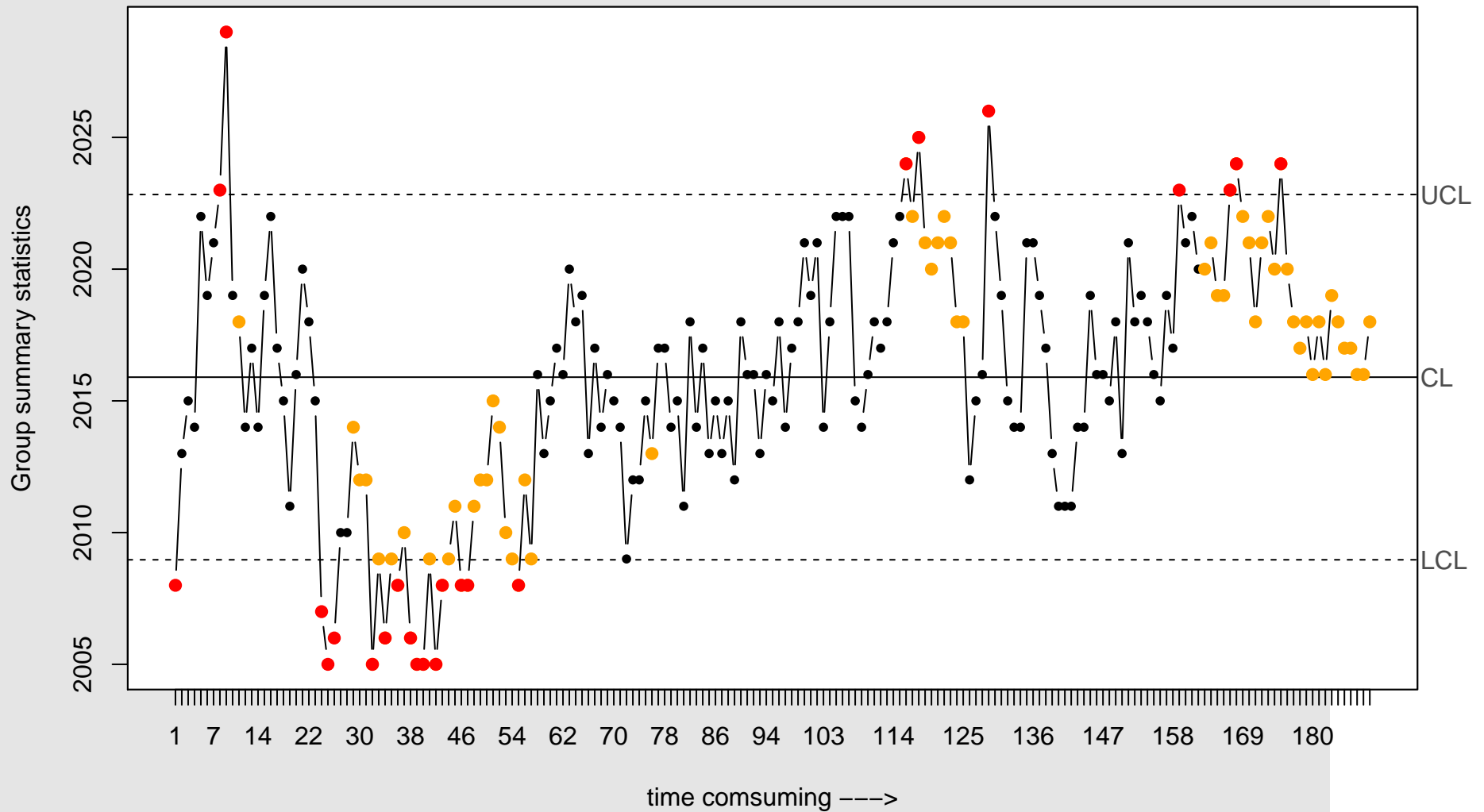


Number of groups = 189
 Center = 2015.847
 StdDev = 2.145579

LCL = 2009.41
 UCL = 2022.283

Number beyond limits = 33
 Number violating runs = 72

235th column point of this product

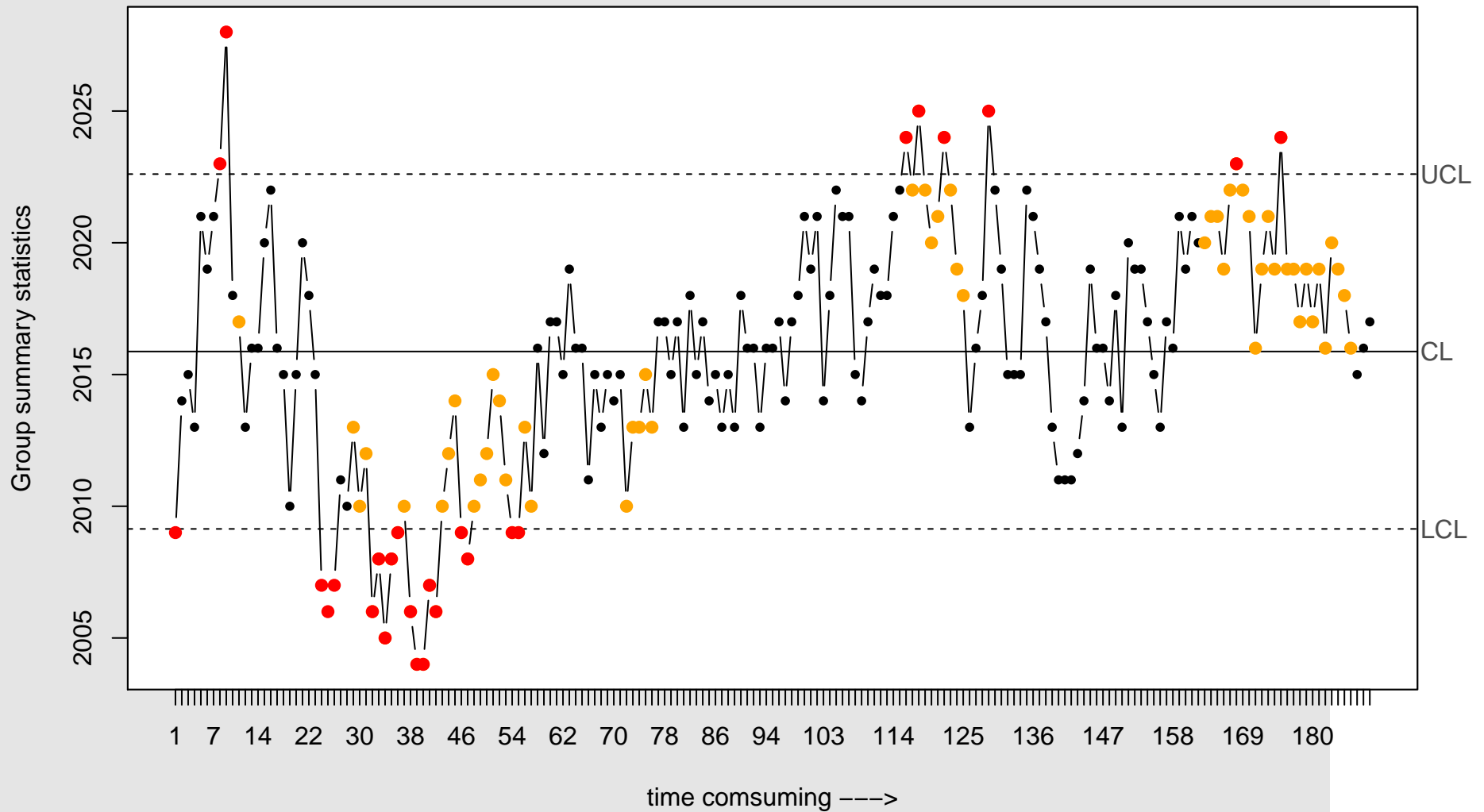


Number of groups = 189
 Center = 2015.899
 StdDev = 2.310623

LCL = 2008.968
 UCL = 2022.831

Number beyond limits = 24
 Number violating runs = 68

236th column point of this product



Number of groups = 189

Center = 2015.873

StdDev = 2.244605

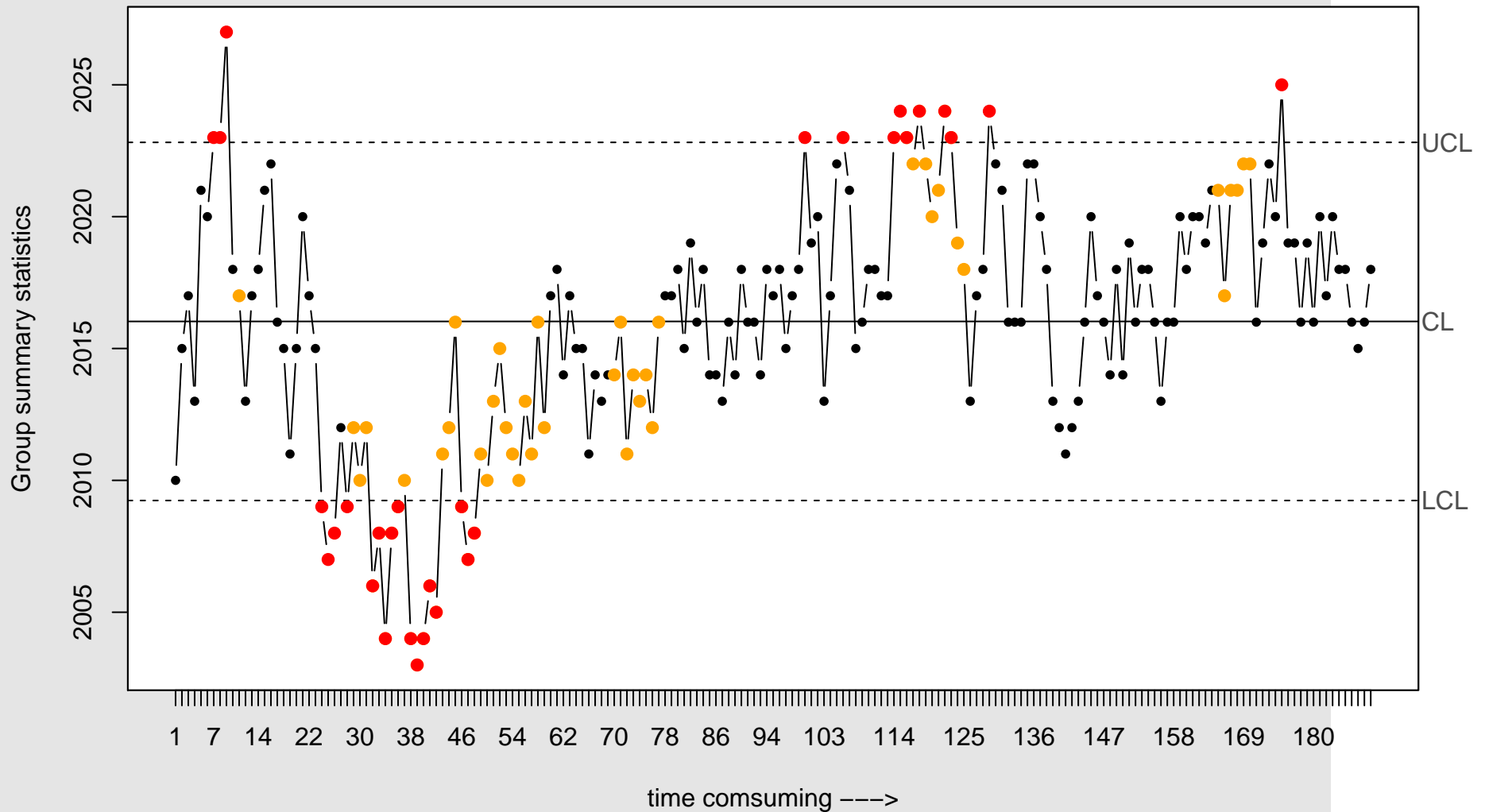
LCL = 2009.139

UCL = 2022.607

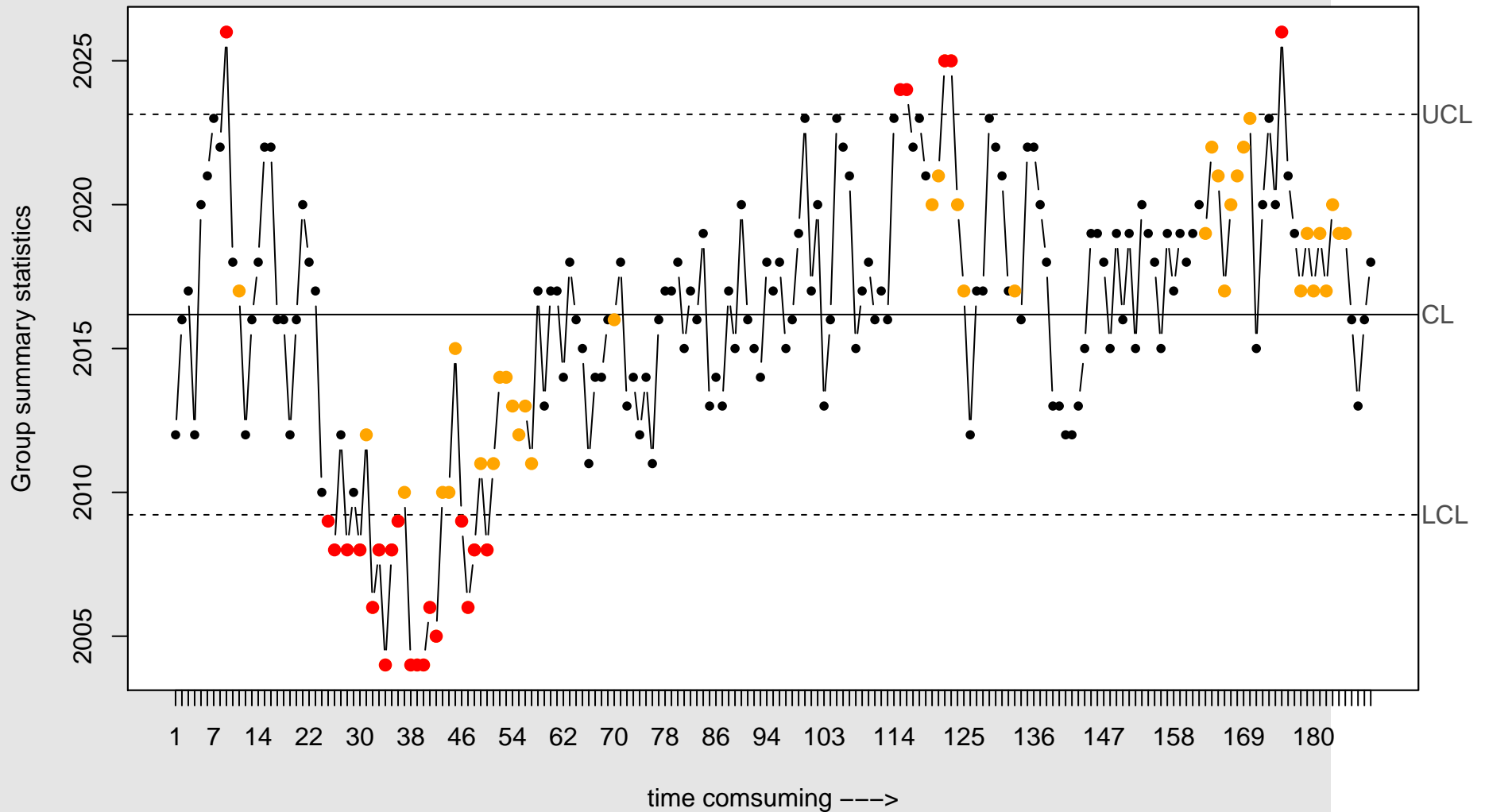
Number beyond limits = 26

Number violating runs = 69

237th column point of this product



238th column point of this product



Number of groups = 189

Center = 2016.18

StdDev = 2.320054

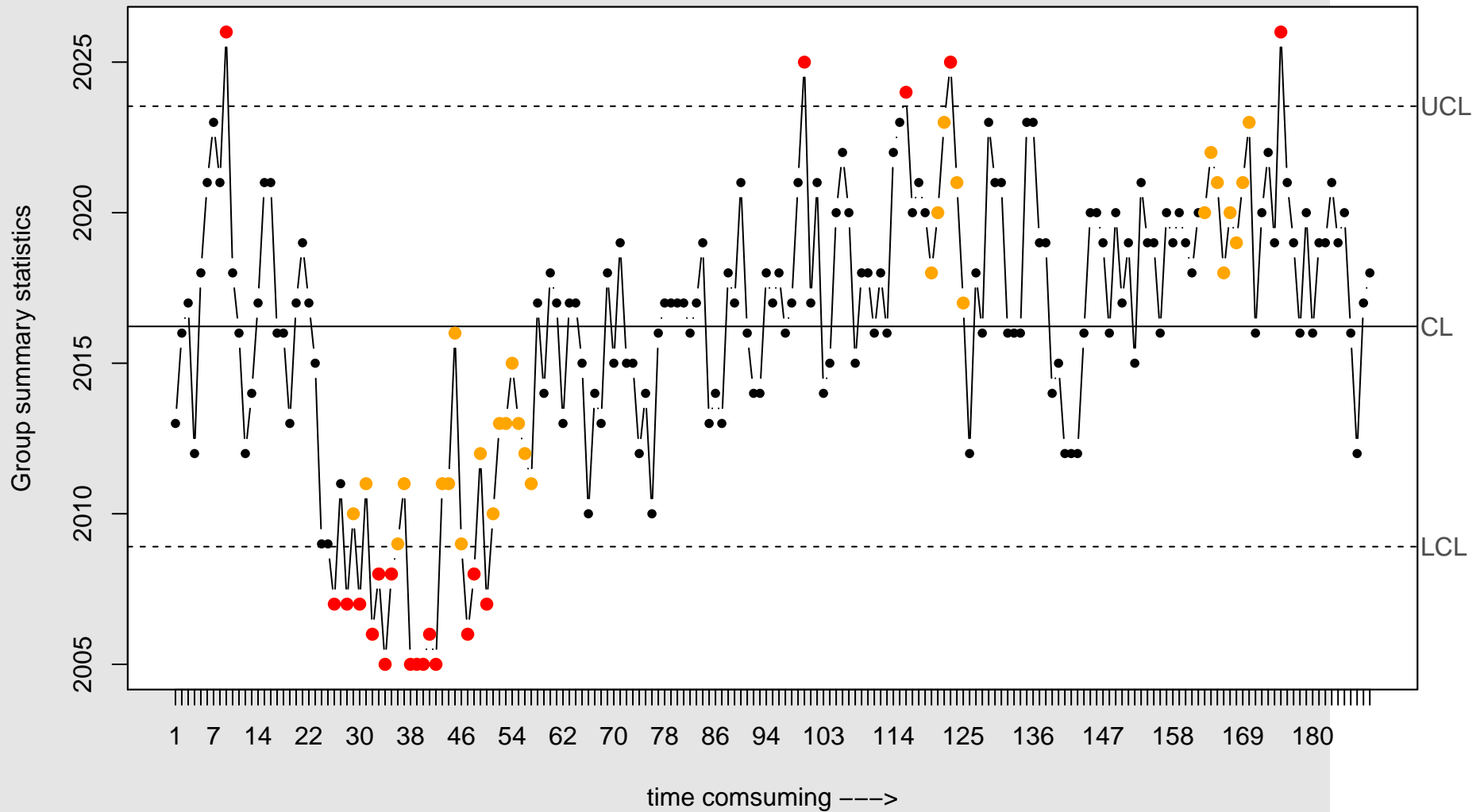
LCL = 2009.22

UCL = 2023.14

Number beyond limits = 24

Number violating runs = 53

239th column point of this product



Number of groups = 189

Center = 2016.222

StdDev = 2.437943

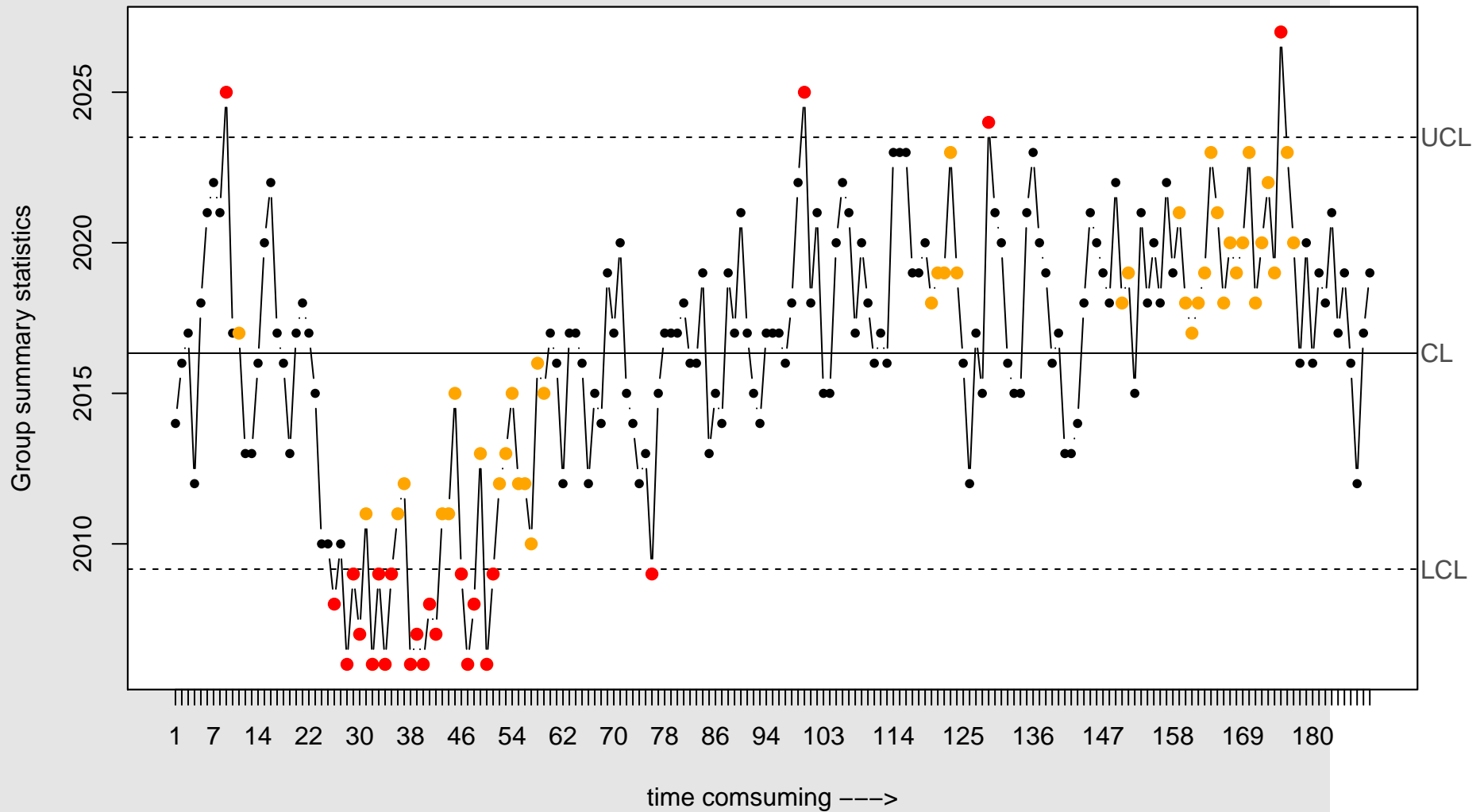
LCL = 2008.908

UCL = 2023.536

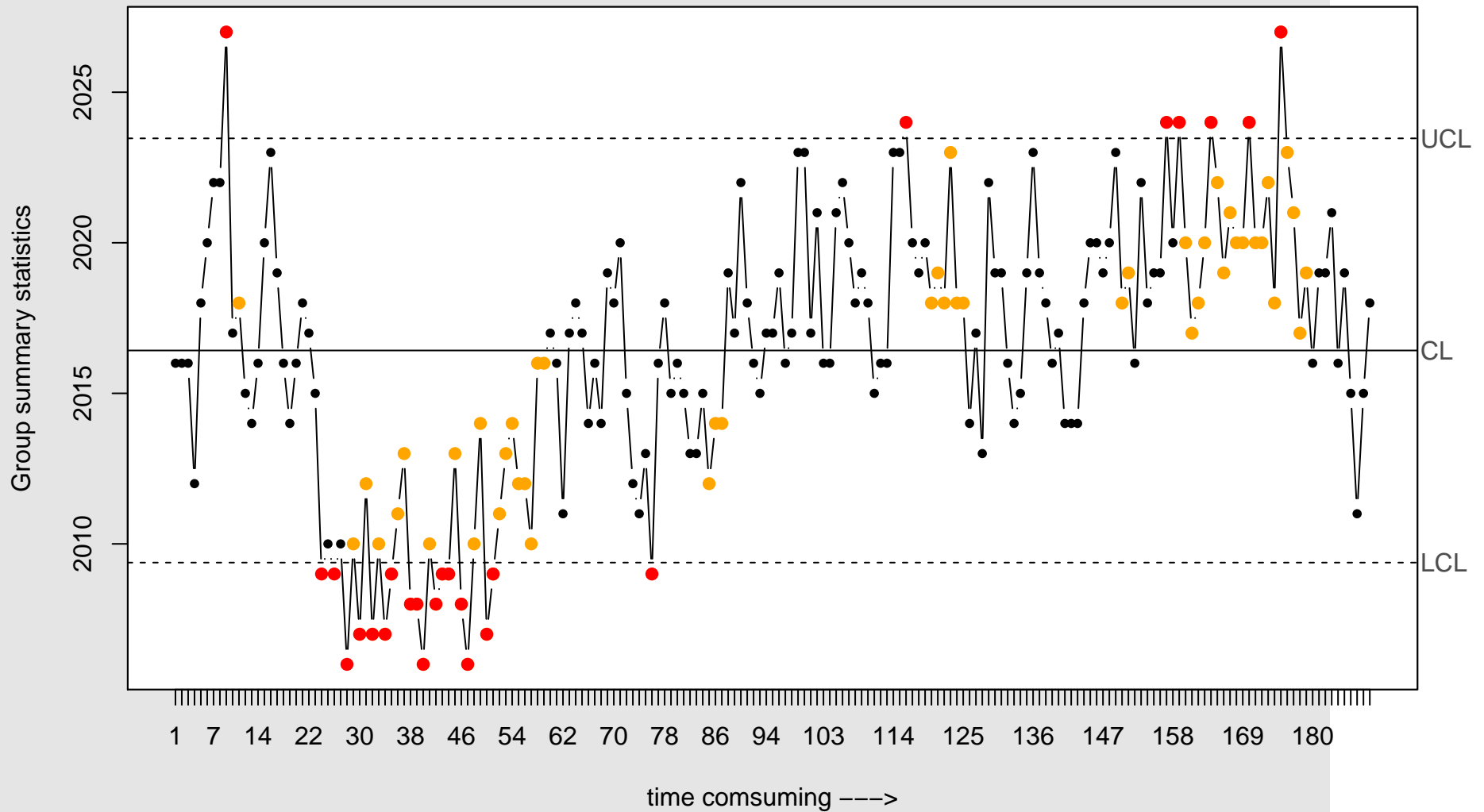
Number beyond limits = 20

Number violating runs = 43

240th column point of this product



241th column point of this product



Number of groups = 189

Center = 2016.423

StdDev = 2.348348

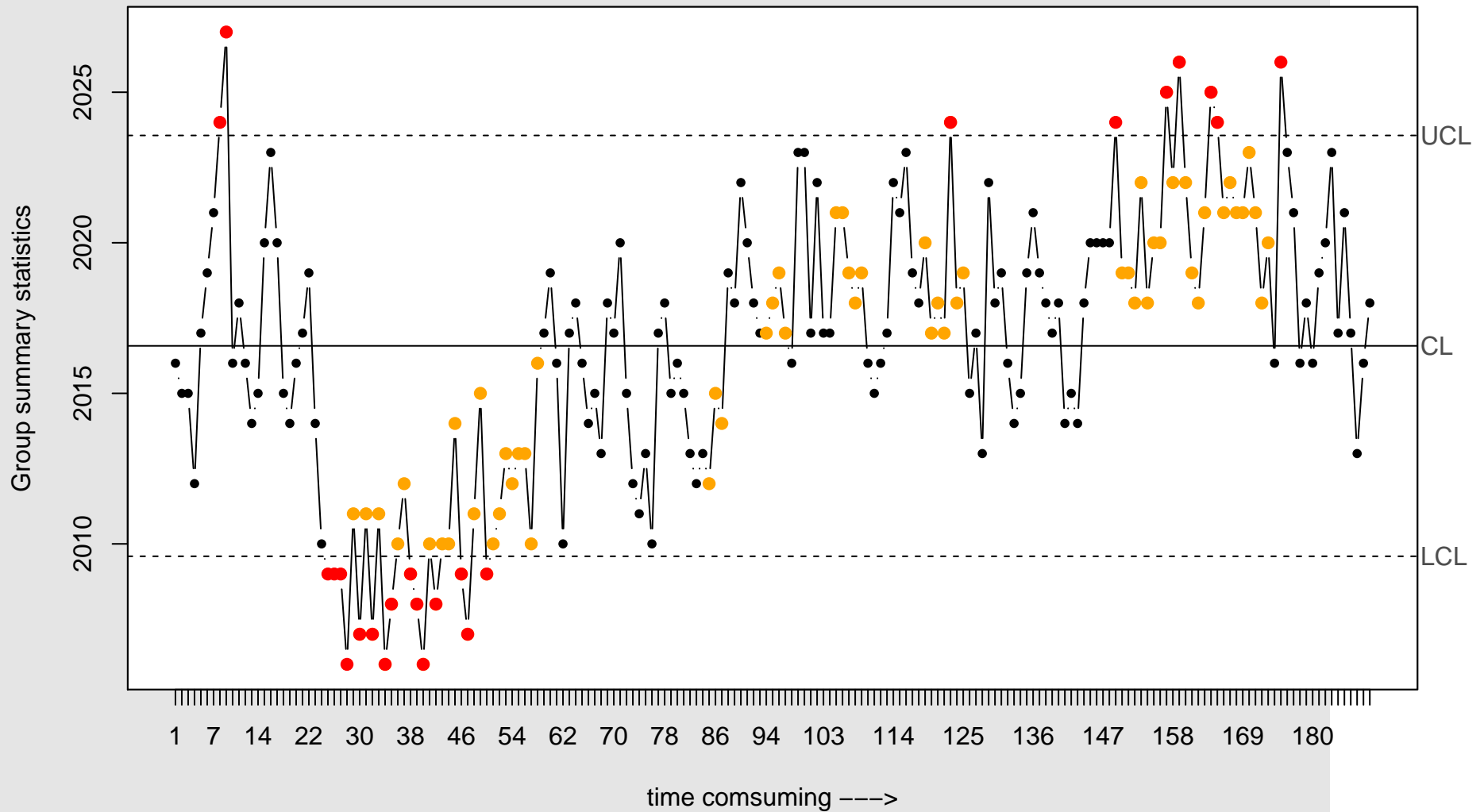
LCL = 2009.378

UCL = 2023.468

Number beyond limits = 25

Number violating runs = 64

242th column point of this product

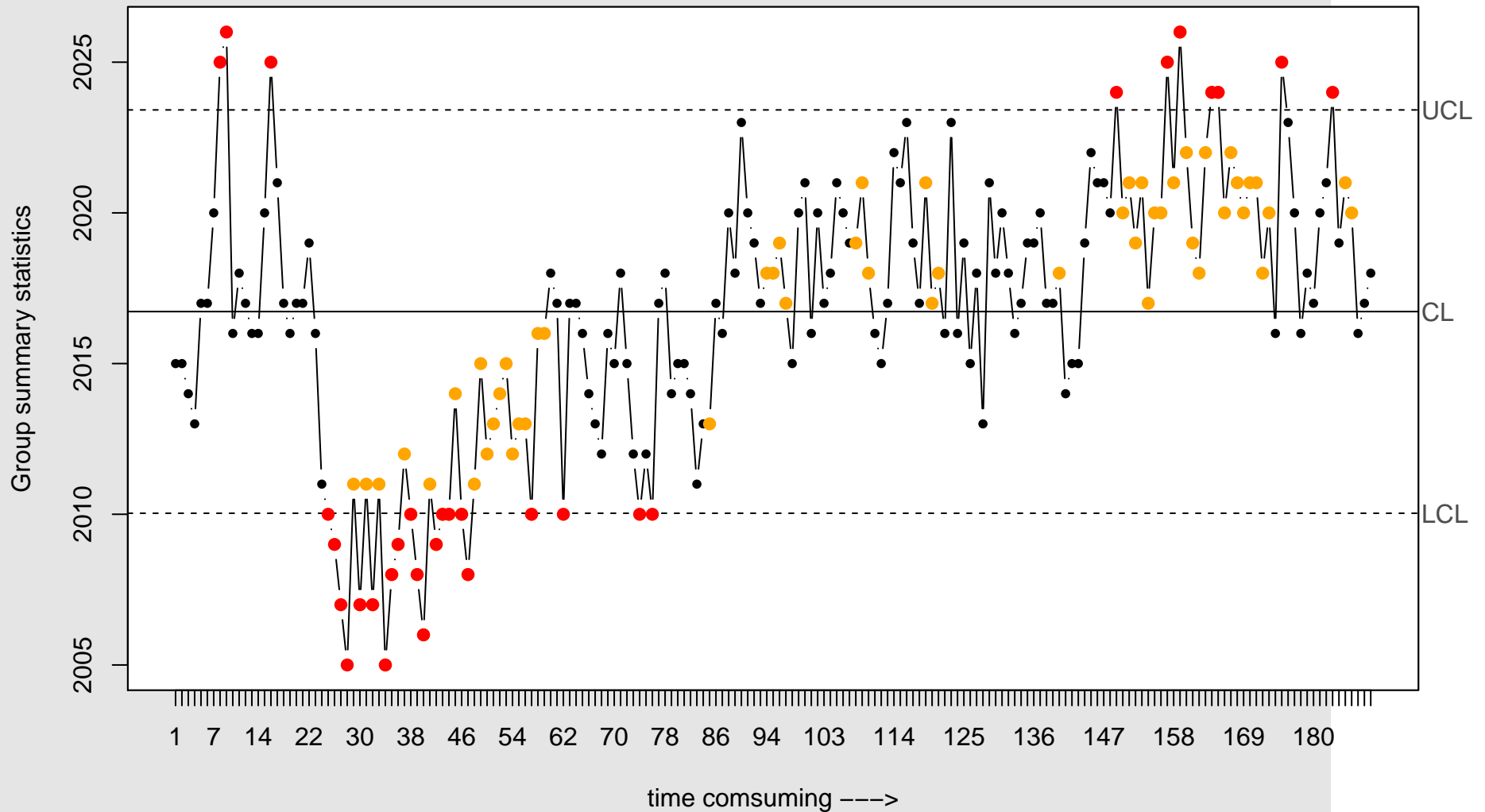


Number of groups = 189
 Center = 2016.577
 StdDev = 2.329485

LCL = 2009.588
 UCL = 2023.565

Number beyond limits = 24
 Number violating runs = 73

243th column point of this product

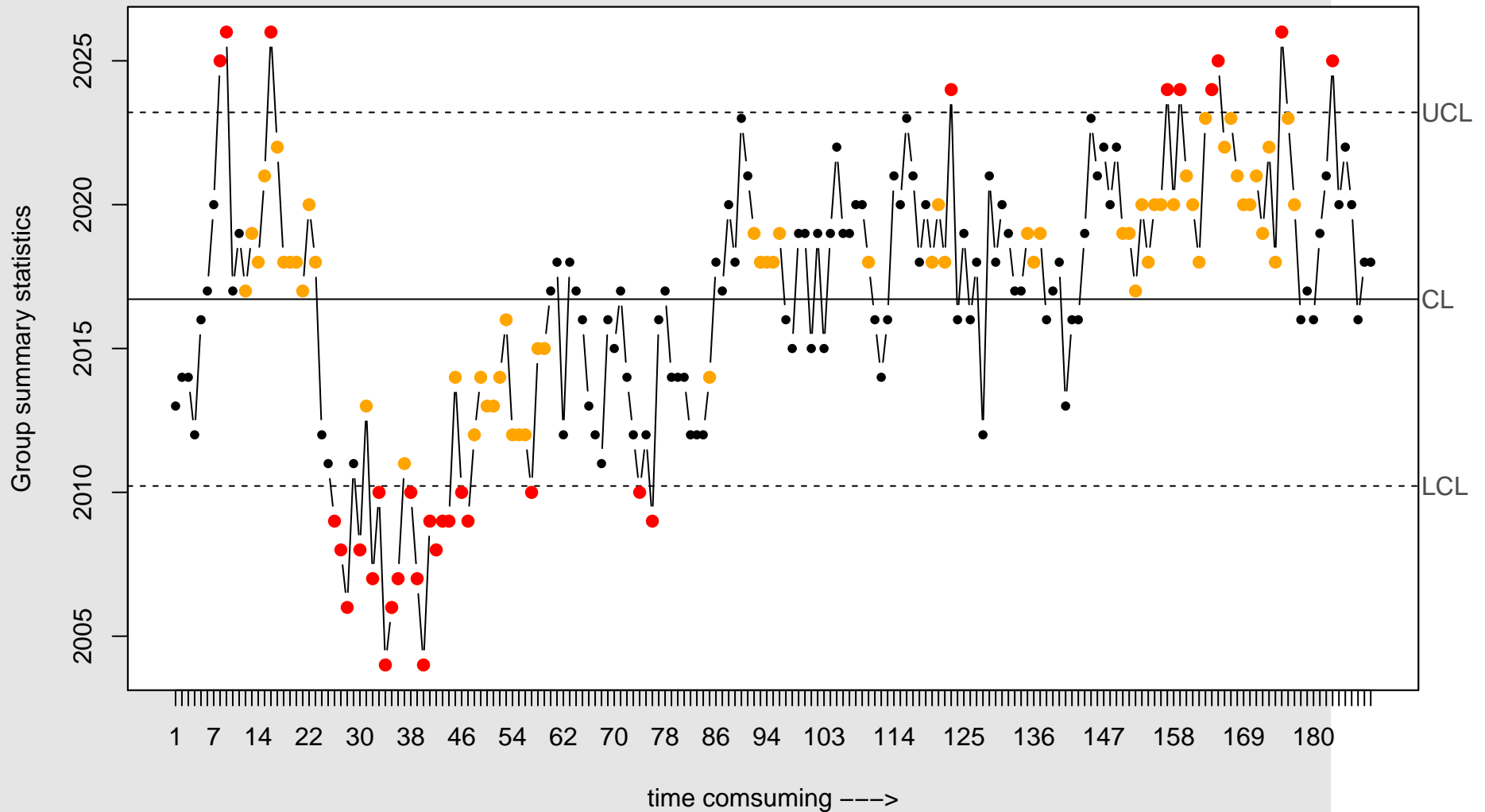


Number of groups = 189
 Center = 2016.725
 StdDev = 2.230459

LCL = 2010.033
 UCL = 2023.416

Number beyond limits = 31
 Number violating runs = 69

244th column point of this product



Number of groups = 189

Center = 2016.714

StdDev = 2.164441

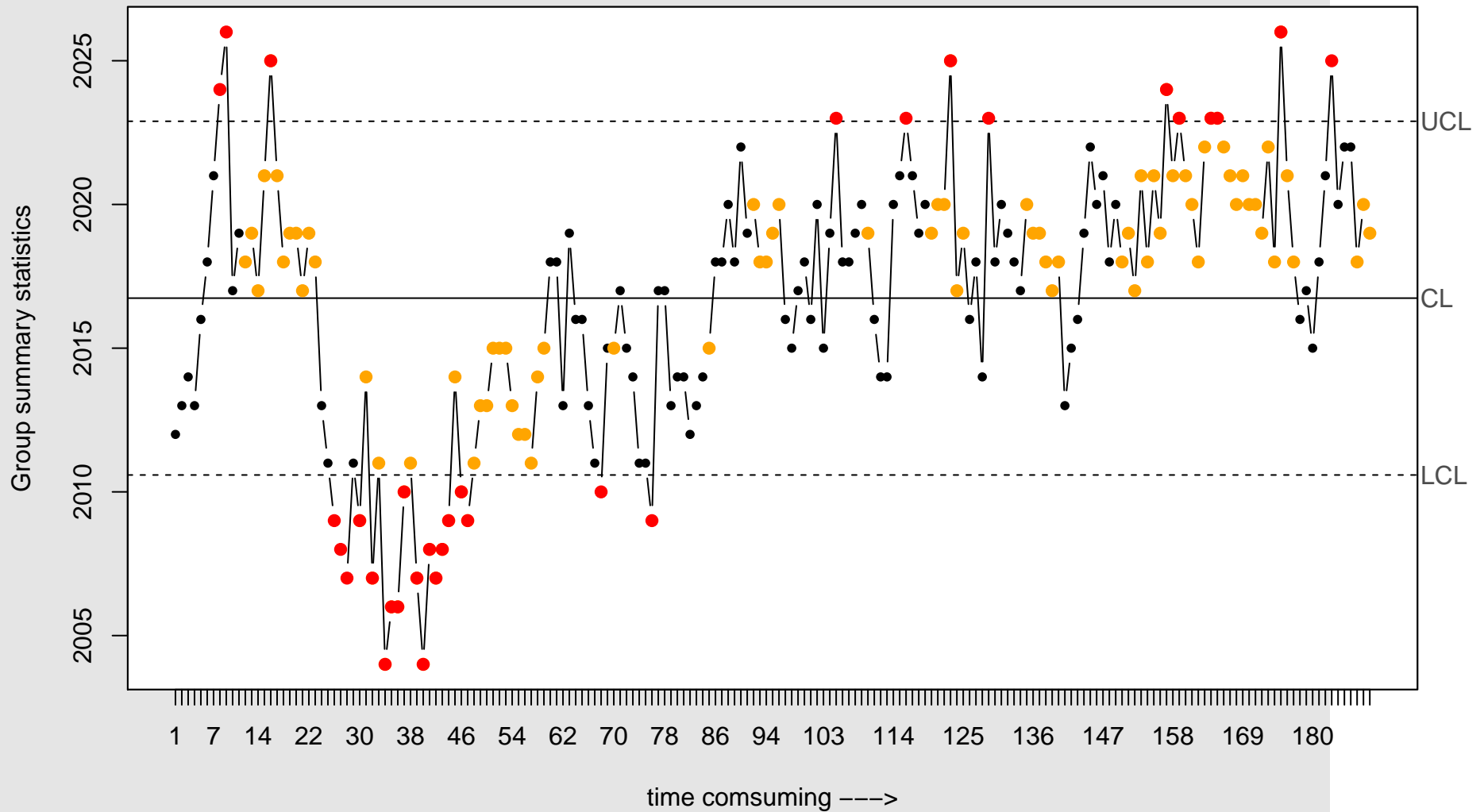
LCL = 2010.221

UCL = 2023.208

Number beyond limits = 31

Number violating runs = 84

245th column point of this product

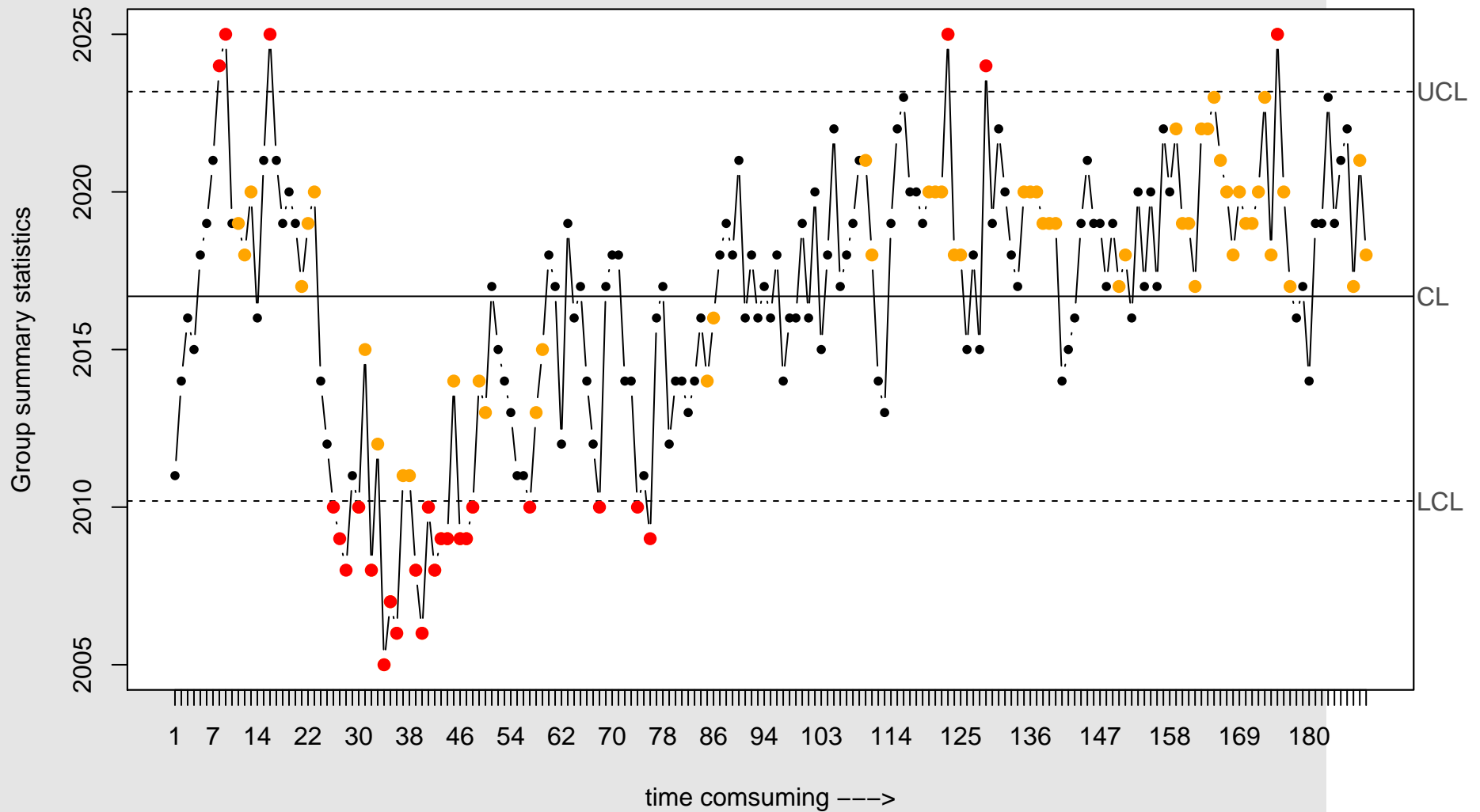


Number of groups = 189
 Center = 2016.741
 StdDev = 2.051268

LCL = 2010.587
 UCL = 2022.895

Number beyond limits = 32
 Number violating runs = 93

246th column point of this product



Number of groups = 189

Center = 2016.688

StdDev = 2.164441

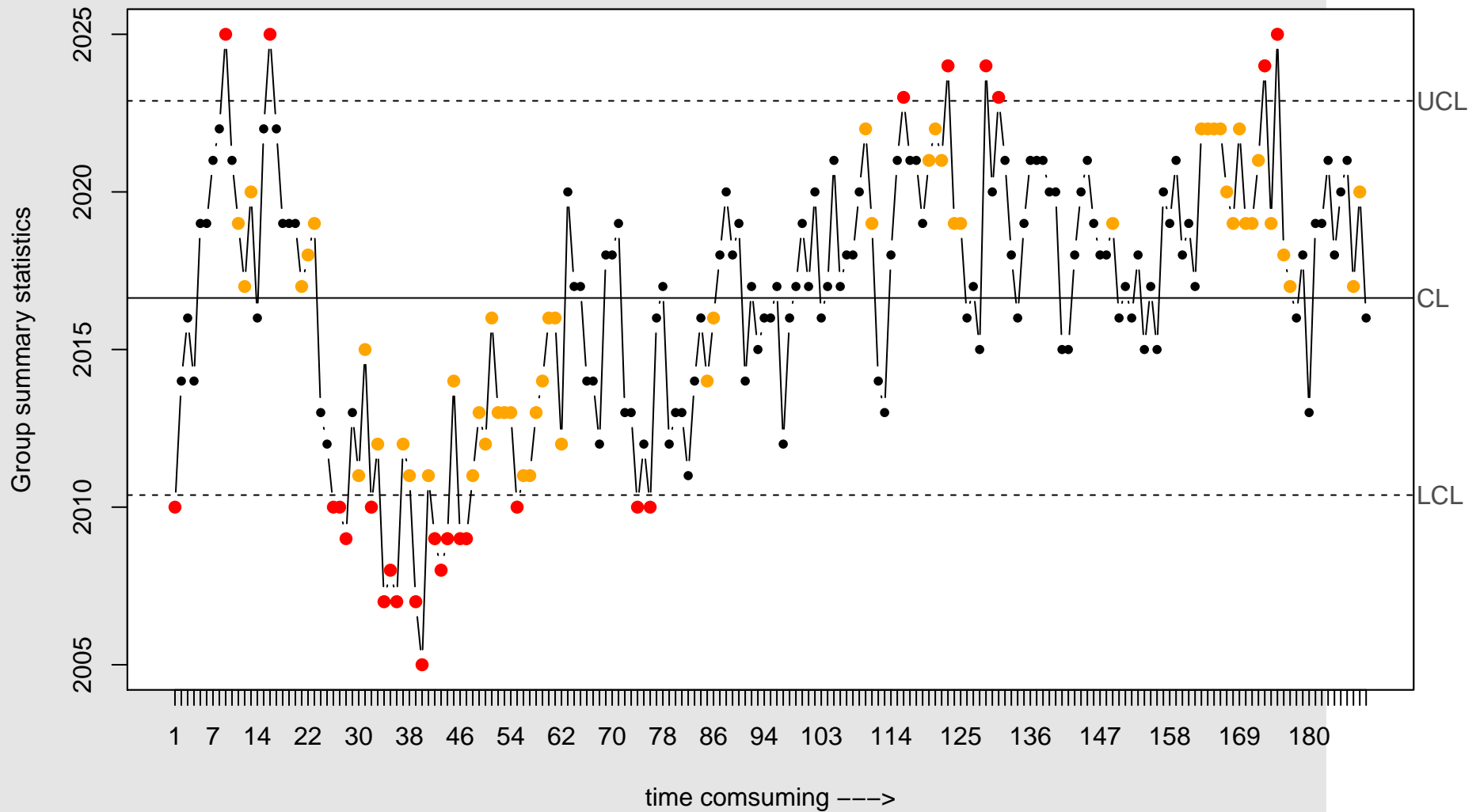
LCL = 2010.195

UCL = 2023.181

Number beyond limits = 27

Number violating runs = 69

247th column point of this product

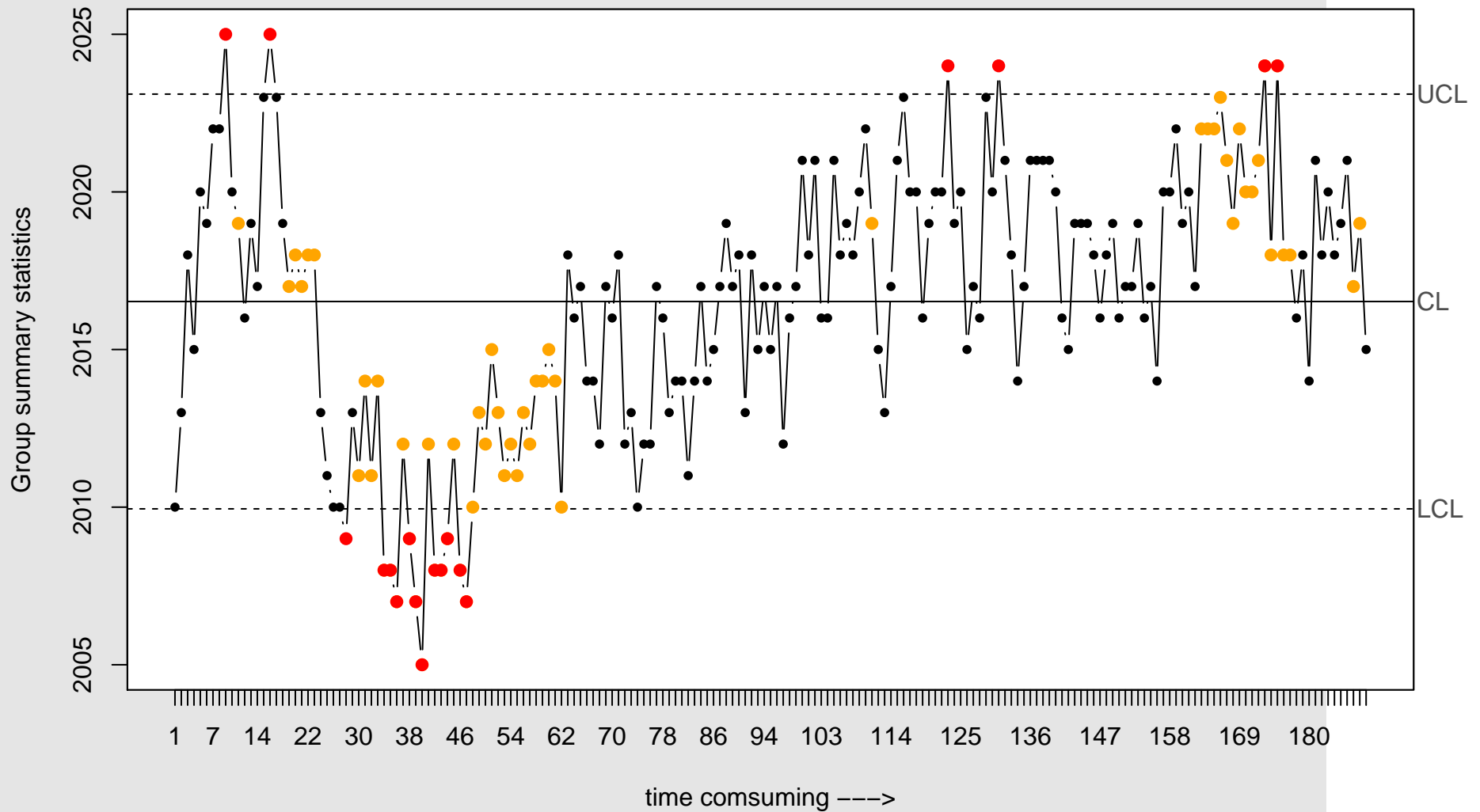


Number of groups = 189
 Center = 2016.635
 StdDev = 2.084276

LCL = 2010.382
 UCL = 2022.888

Number beyond limits = 26
 Number violating runs = 67

248th column point of this product



Number of groups = 189

Center = 2016.524

StdDev = 2.192734

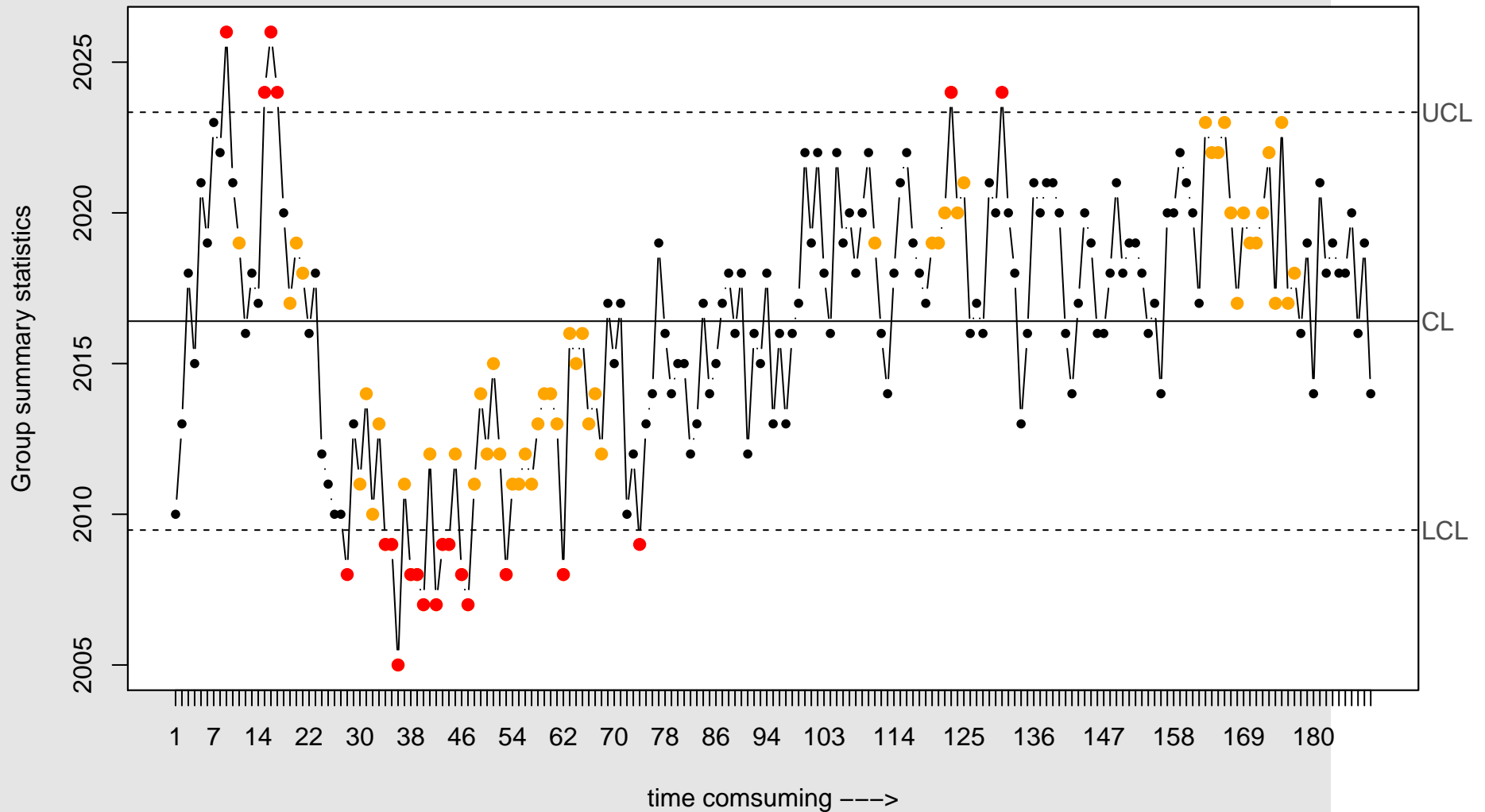
LCL = 2009.946

UCL = 2023.102

Number beyond limits = 18

Number violating runs = 57

249th column point of this product

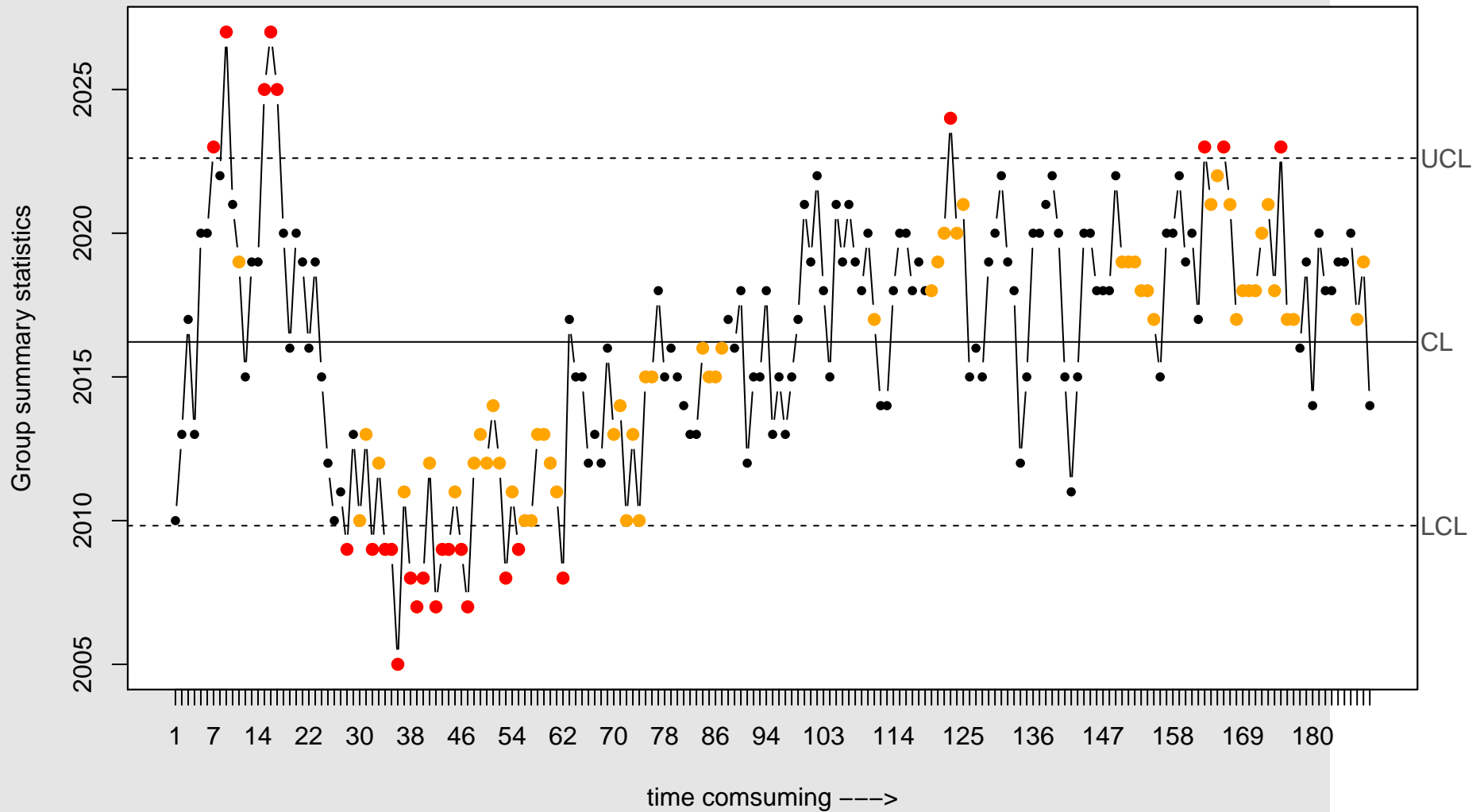


Number of groups = 189
Center = 2016.407
StdDev = 2.310623

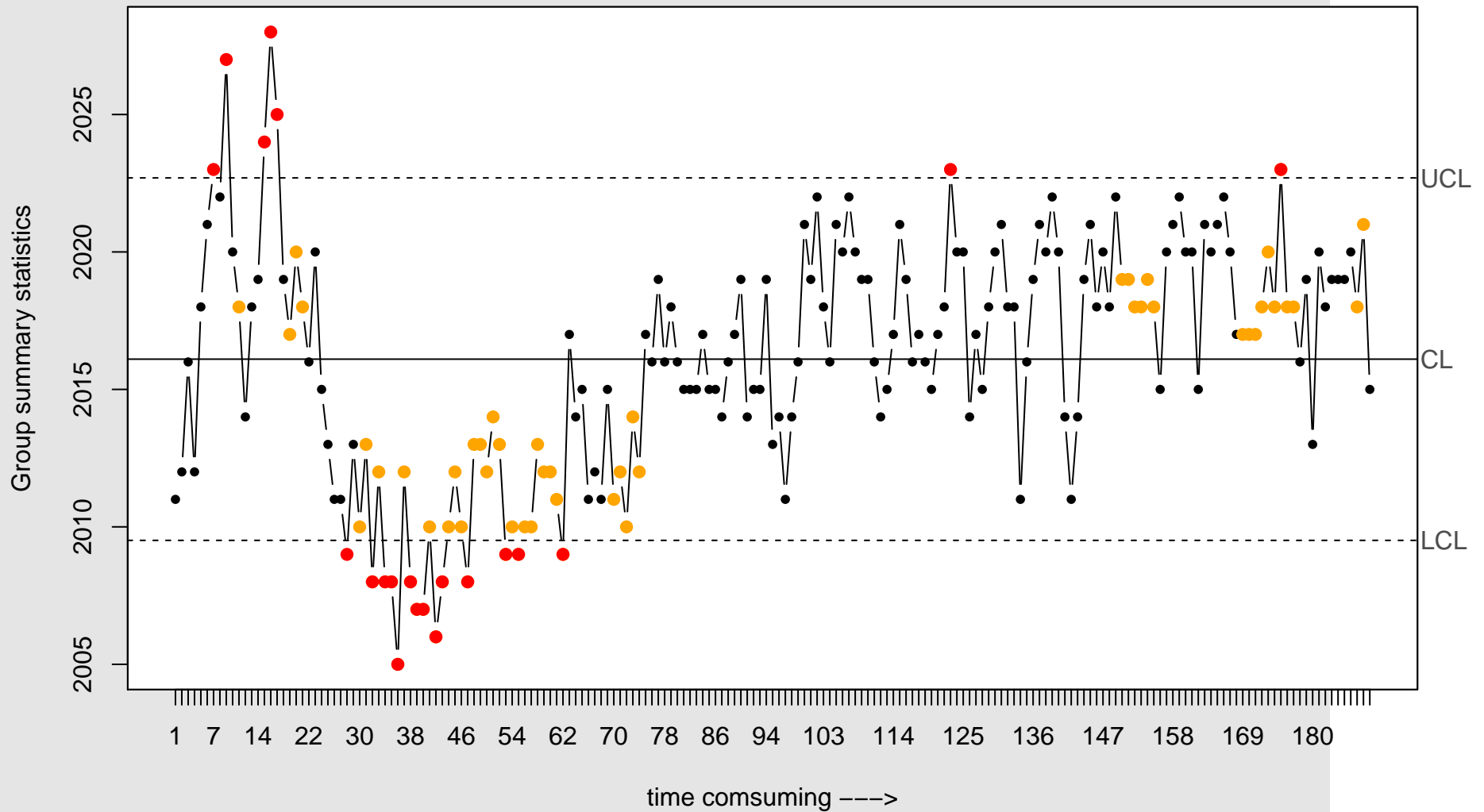
LCL = 2009.476
UCL = 2023.339

Number beyond limits = 21
Number violating runs = 65

250th column point of this product



251th column point of this product

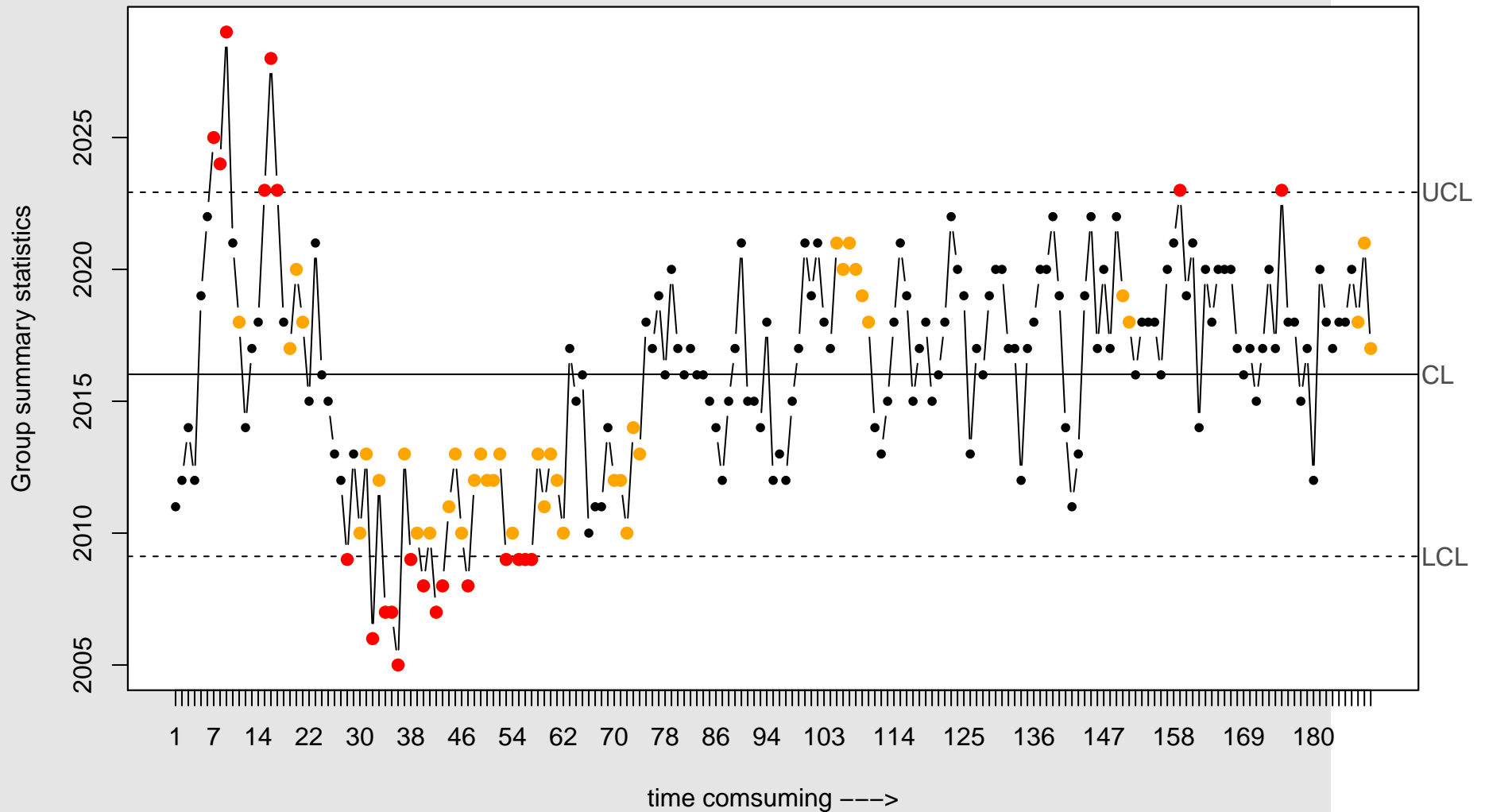


Number of groups = 189
 Center = 2016.101
 StdDev = 2.19745

LCL = 2009.508
 UCL = 2022.693

Number beyond limits = 21
 Number violating runs = 59

252th column point of this product



Number of groups = 189

Center = 2016.021

StdDev = 2.301192

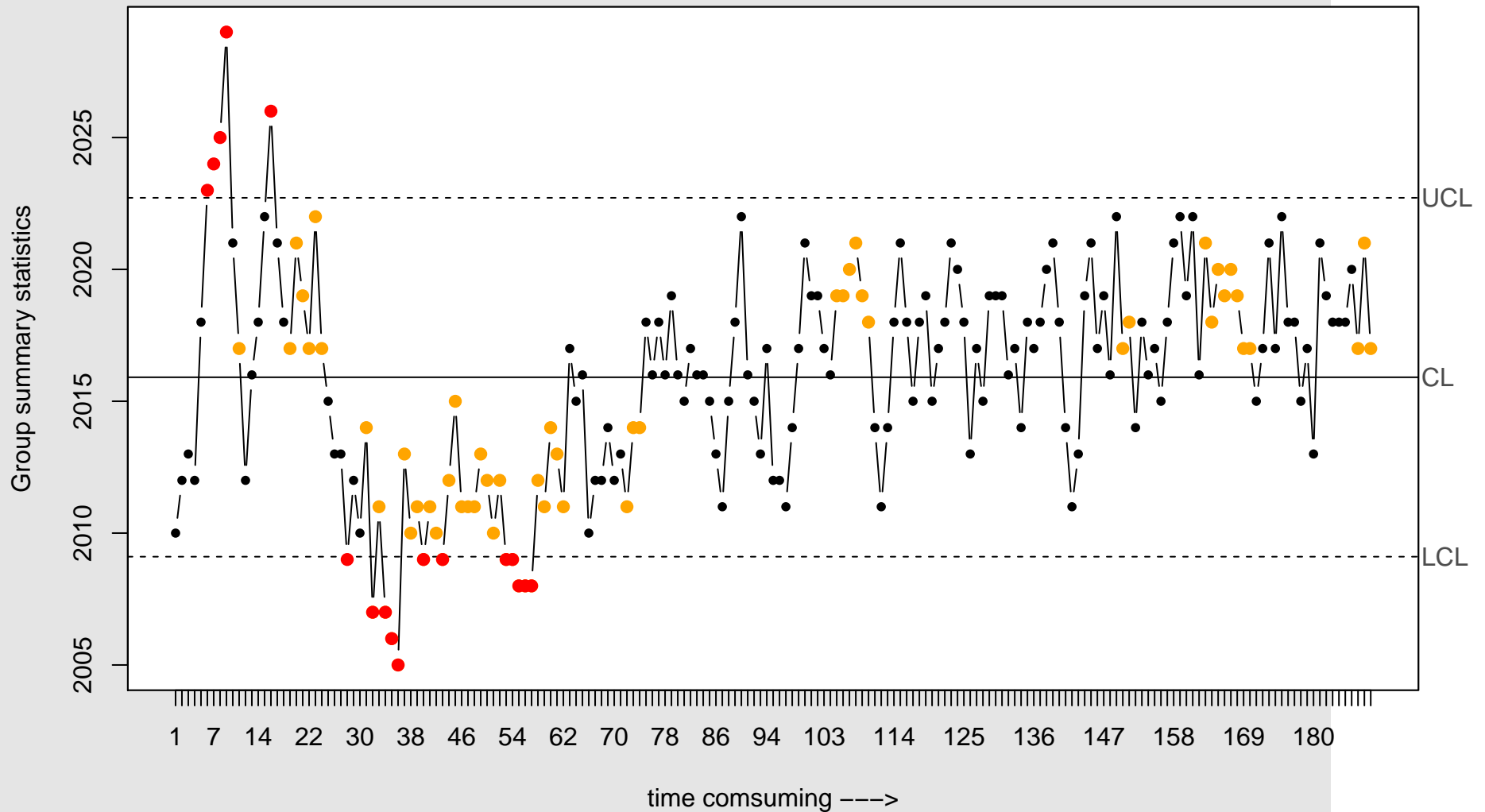
LCL = 2009.118

UCL = 2022.925

Number beyond limits = 22

Number violating runs = 53

253th column point of this product



Number of groups = 189

Center = 2015.91

StdDev = 2.268183

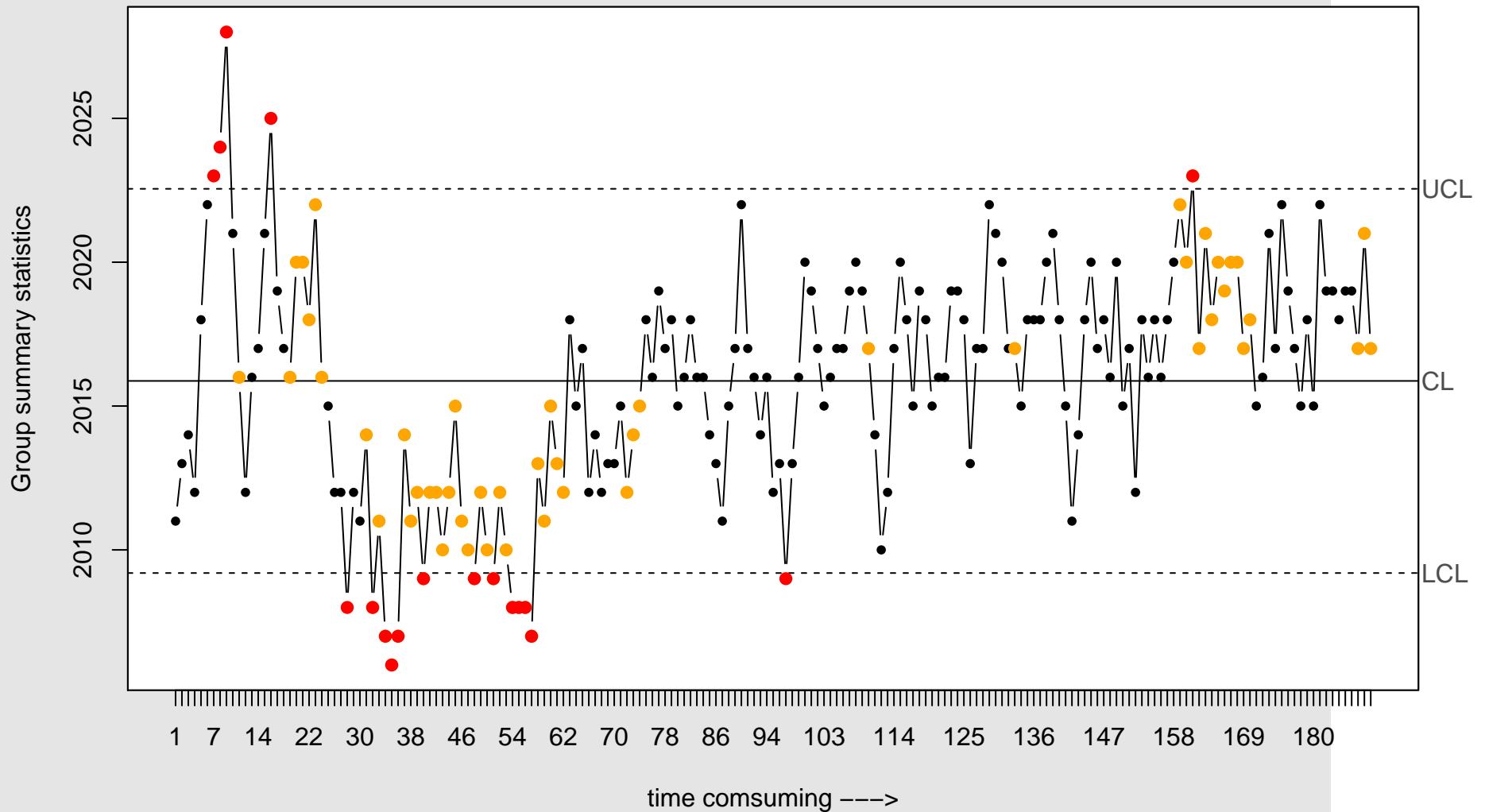
LCL = 2009.106

UCL = 2022.715

Number beyond limits = 17

Number violating runs = 61

254th column point of this product

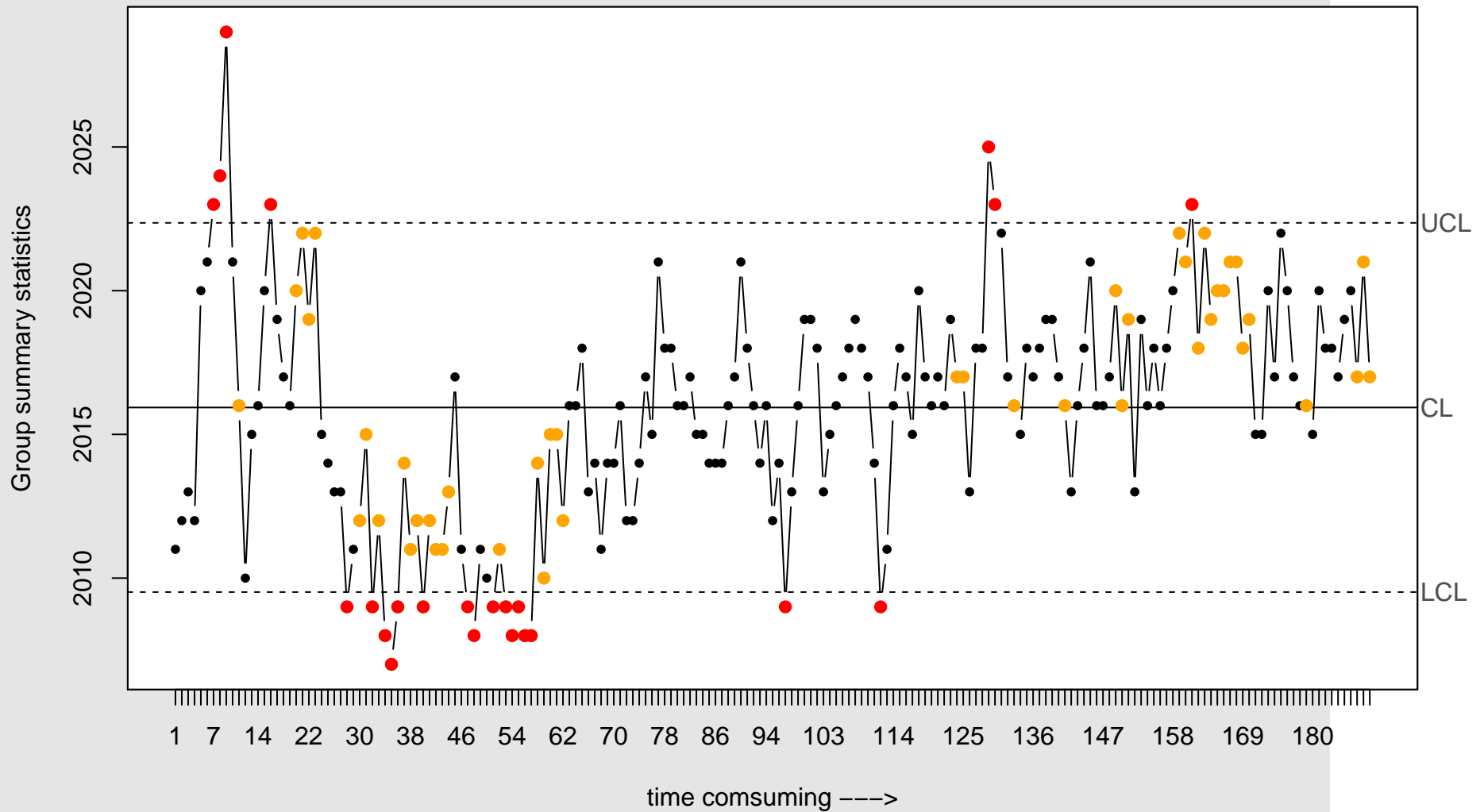


Number of groups = 189
Center = 2015.873
StdDev = 2.225743

LCL = 2009.196
UCL = 2022.55

Number beyond limits = 18
Number violating runs = 59

255th column point of this product



Number of groups = 189

Center = 2015.937

StdDev = 2.140863

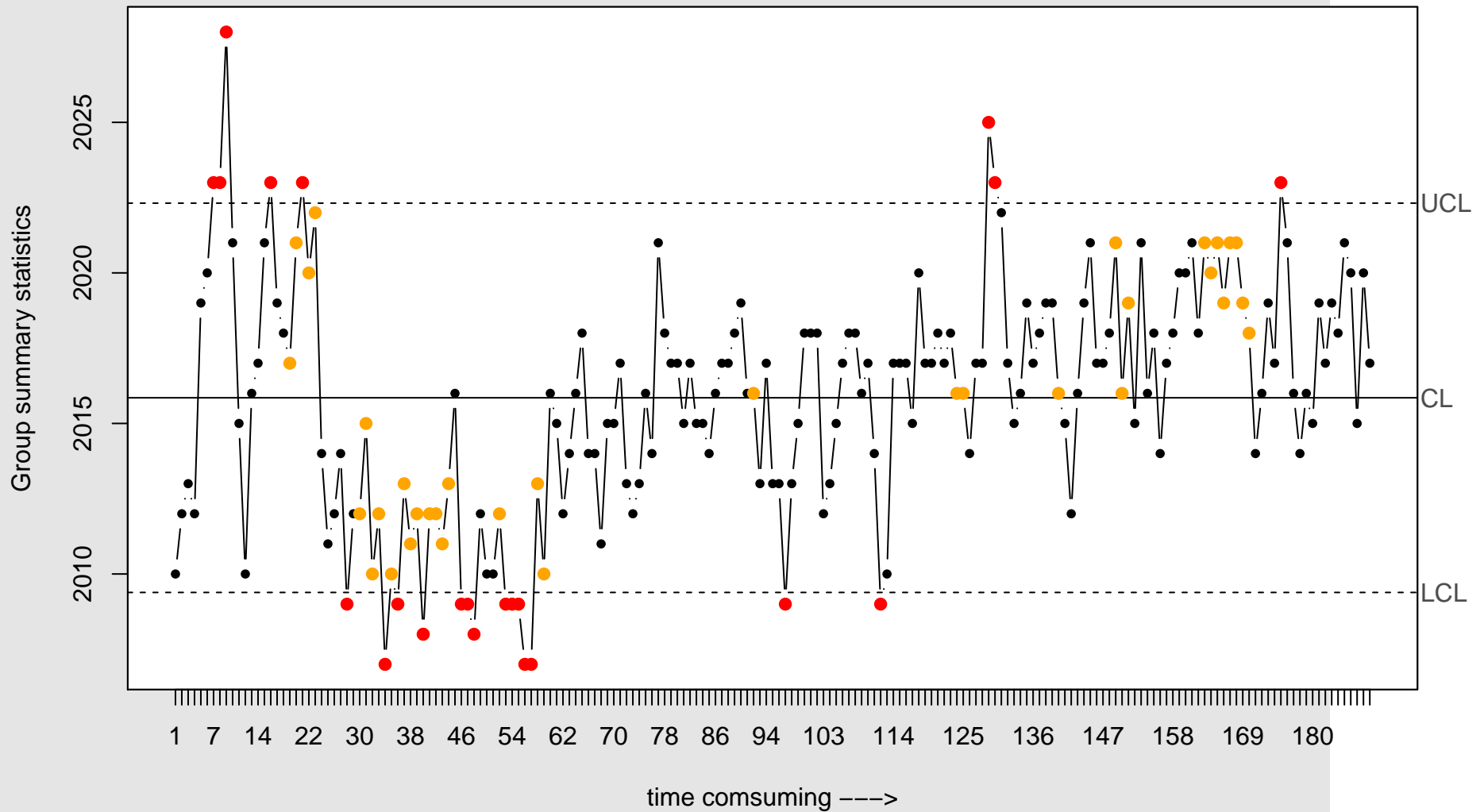
LCL = 2009.514

UCL = 2022.359

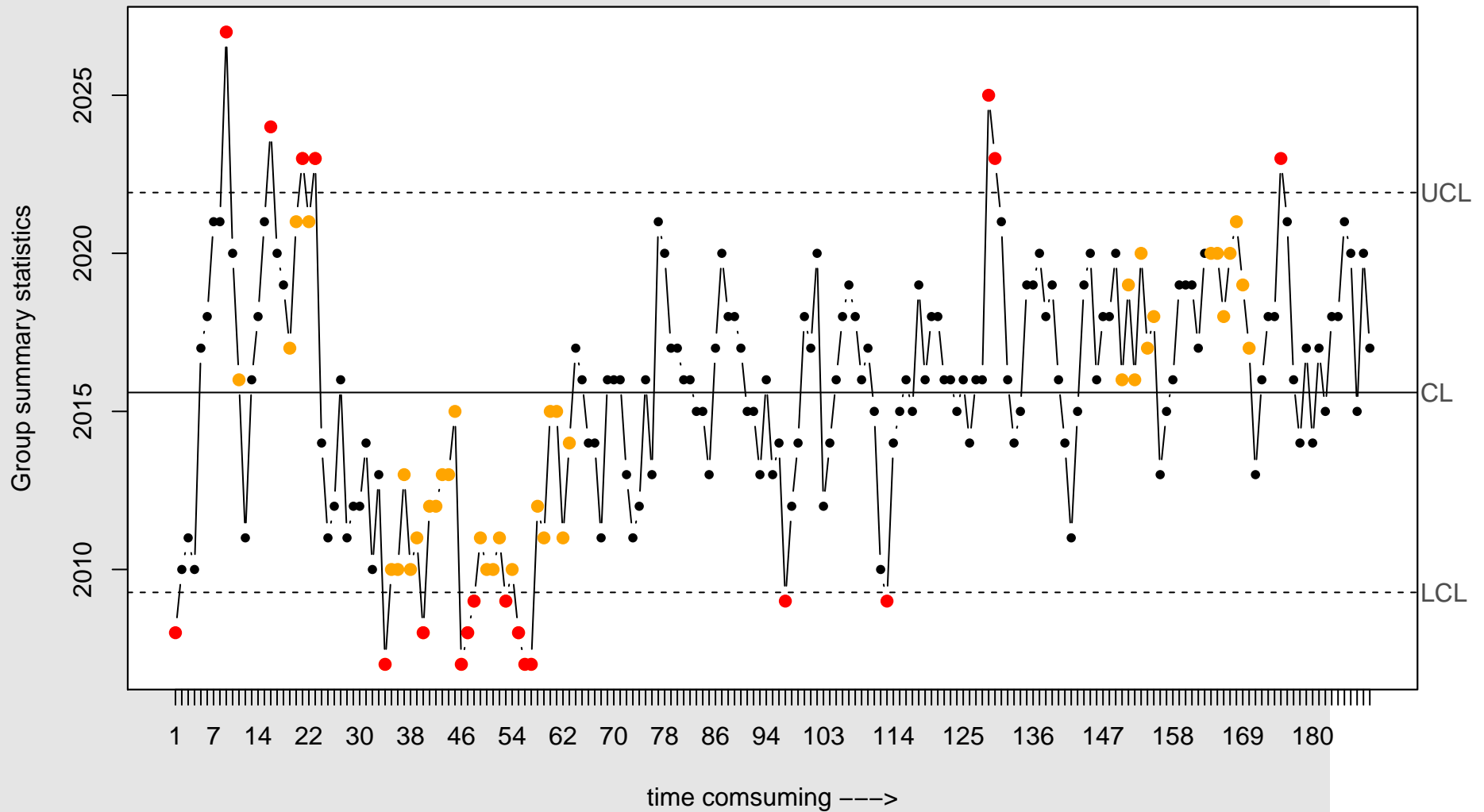
Number beyond limits = 23

Number violating runs = 54

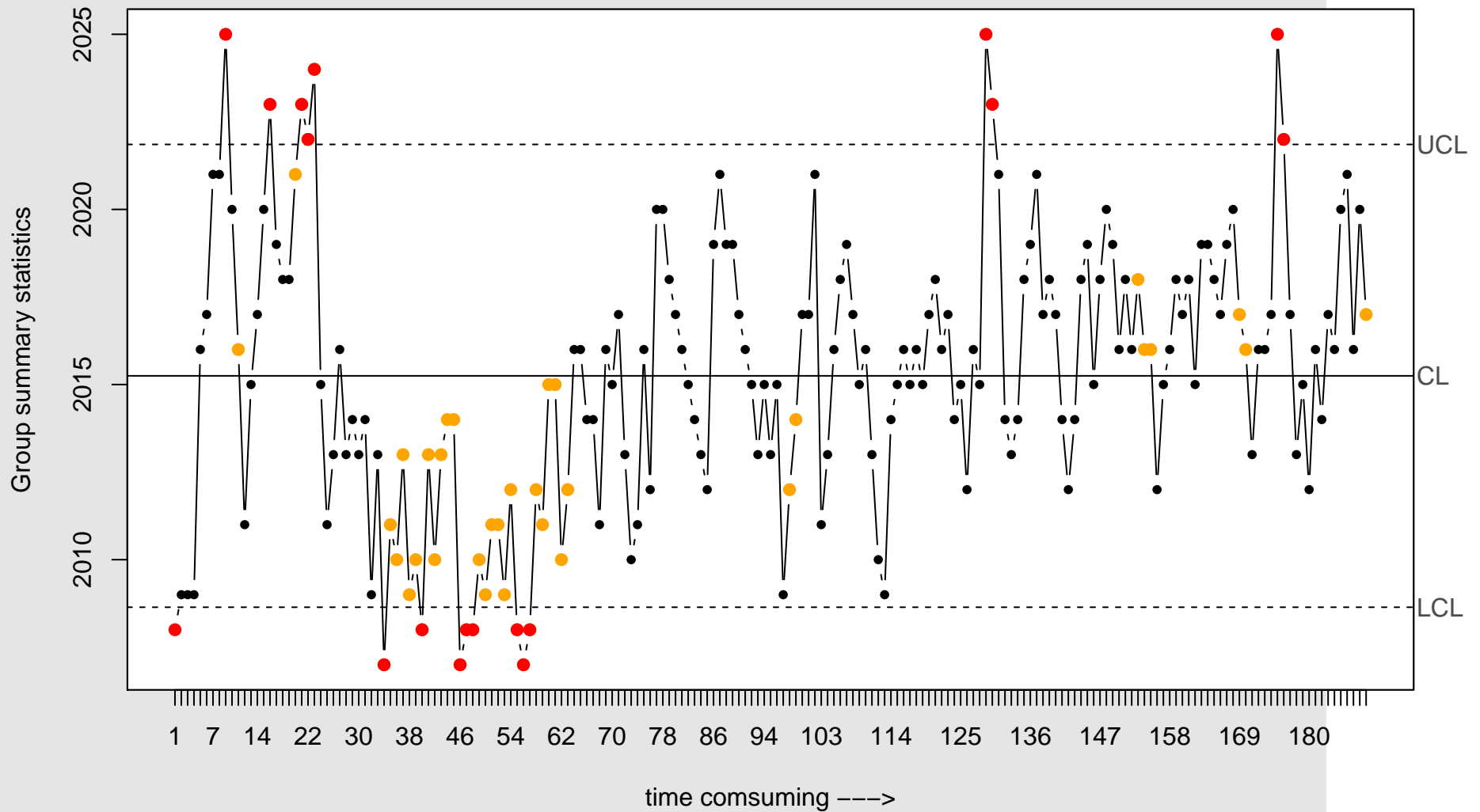
256th column point of this product



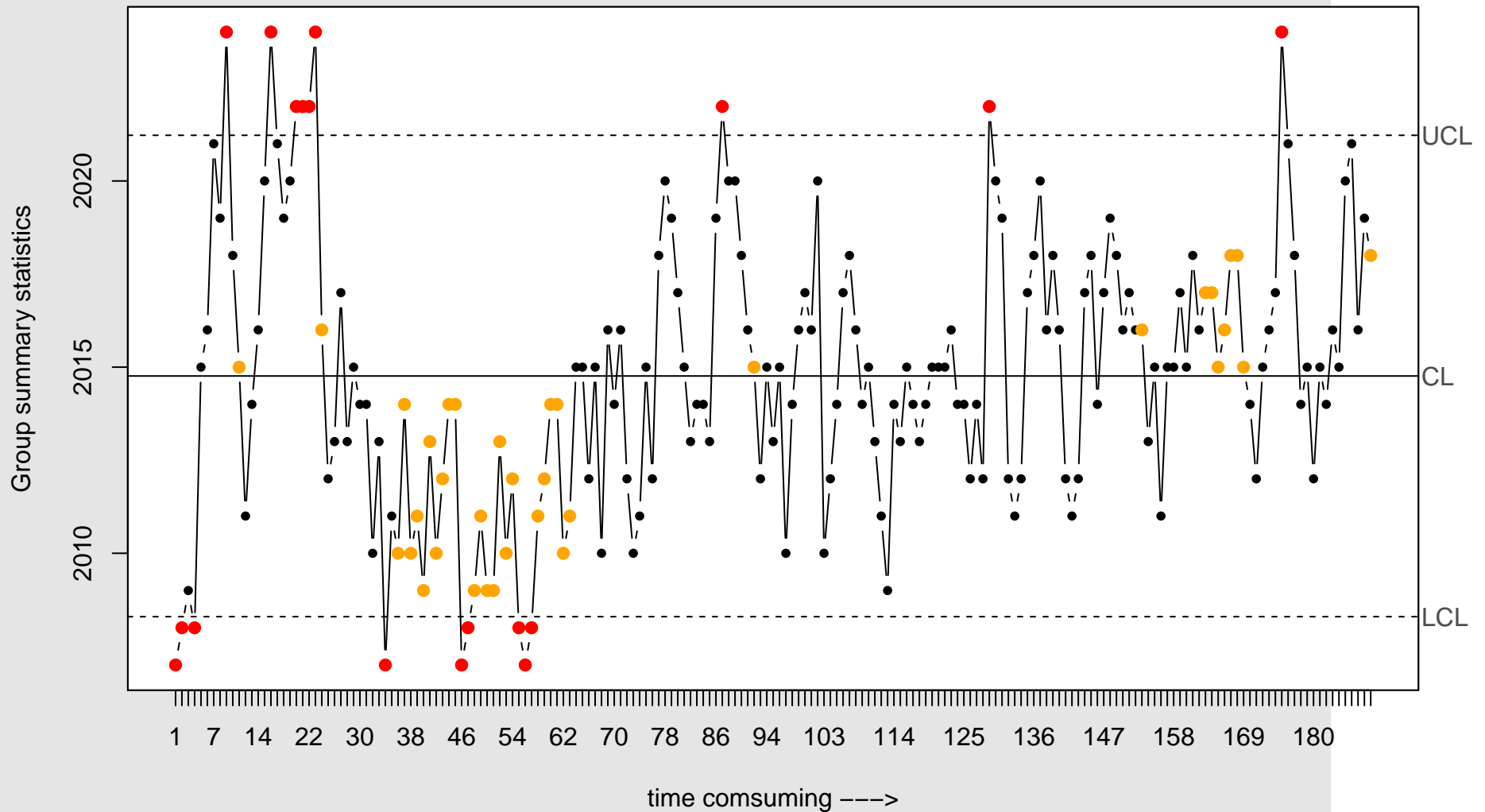
257th column point of this product



258th column point of this product



259th column point of this product

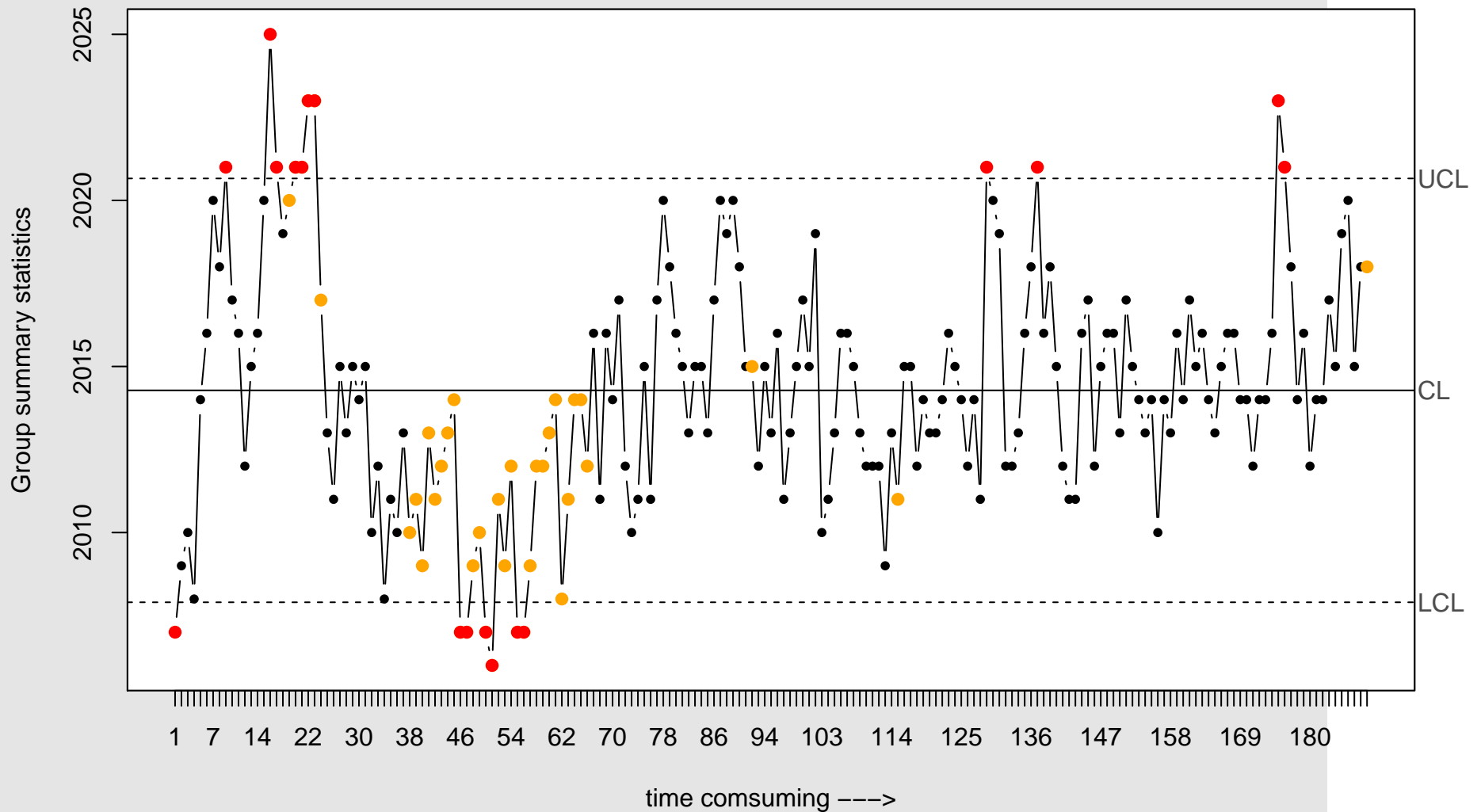


Number of groups = 189
Center = 2014.762
StdDev = 2.15501

LCL = 2008.297
UCL = 2021.227

Number beyond limits = 18
Number violating runs = 44

260th column point of this product



Number of groups = 189

Center = 2014.28

StdDev = 2.126716

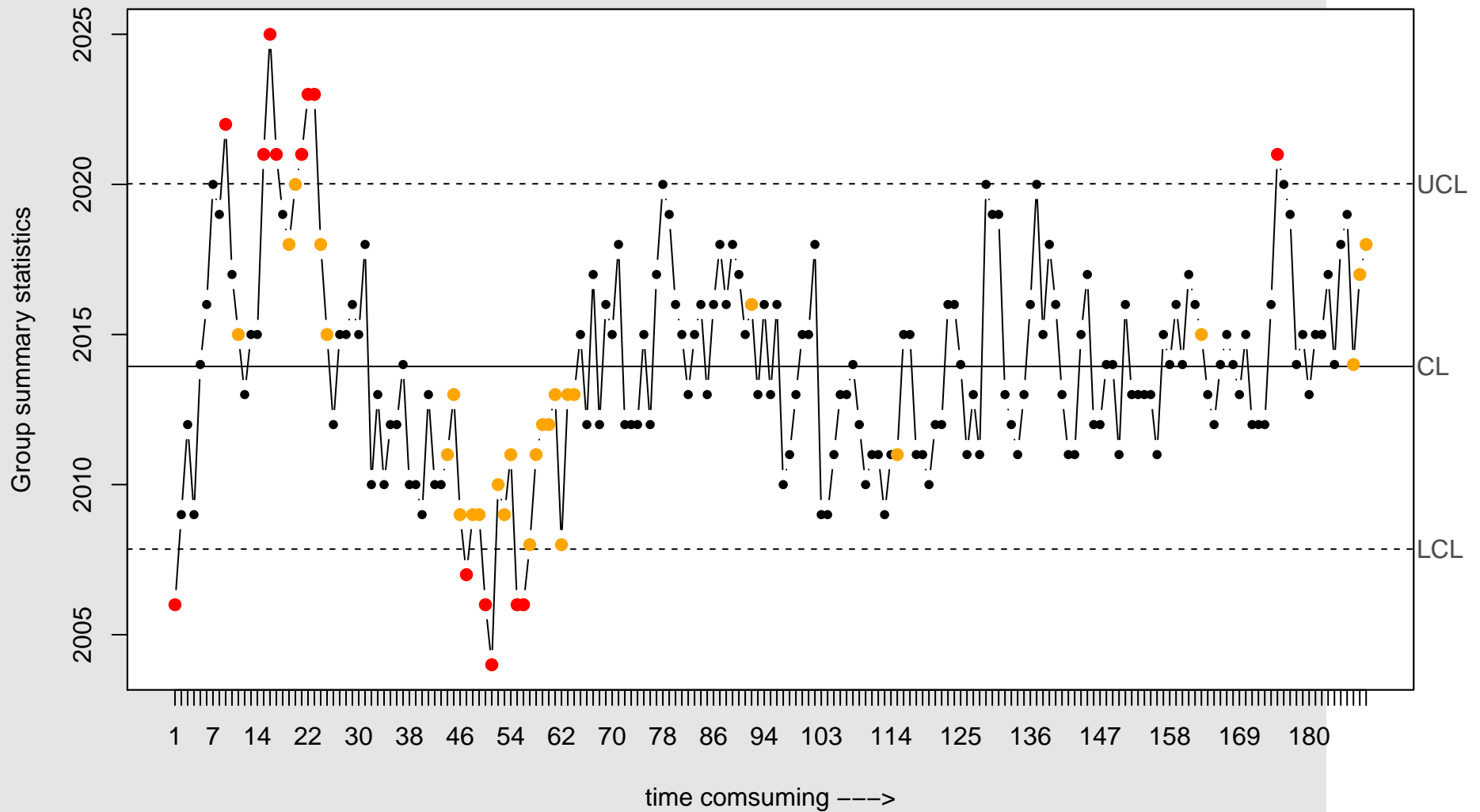
LCL = 2007.9

UCL = 2020.661

Number beyond limits = 18

Number violating runs = 38

261th column point of this product



Number of groups = 189

Center = 2013.937

StdDev = 2.02769

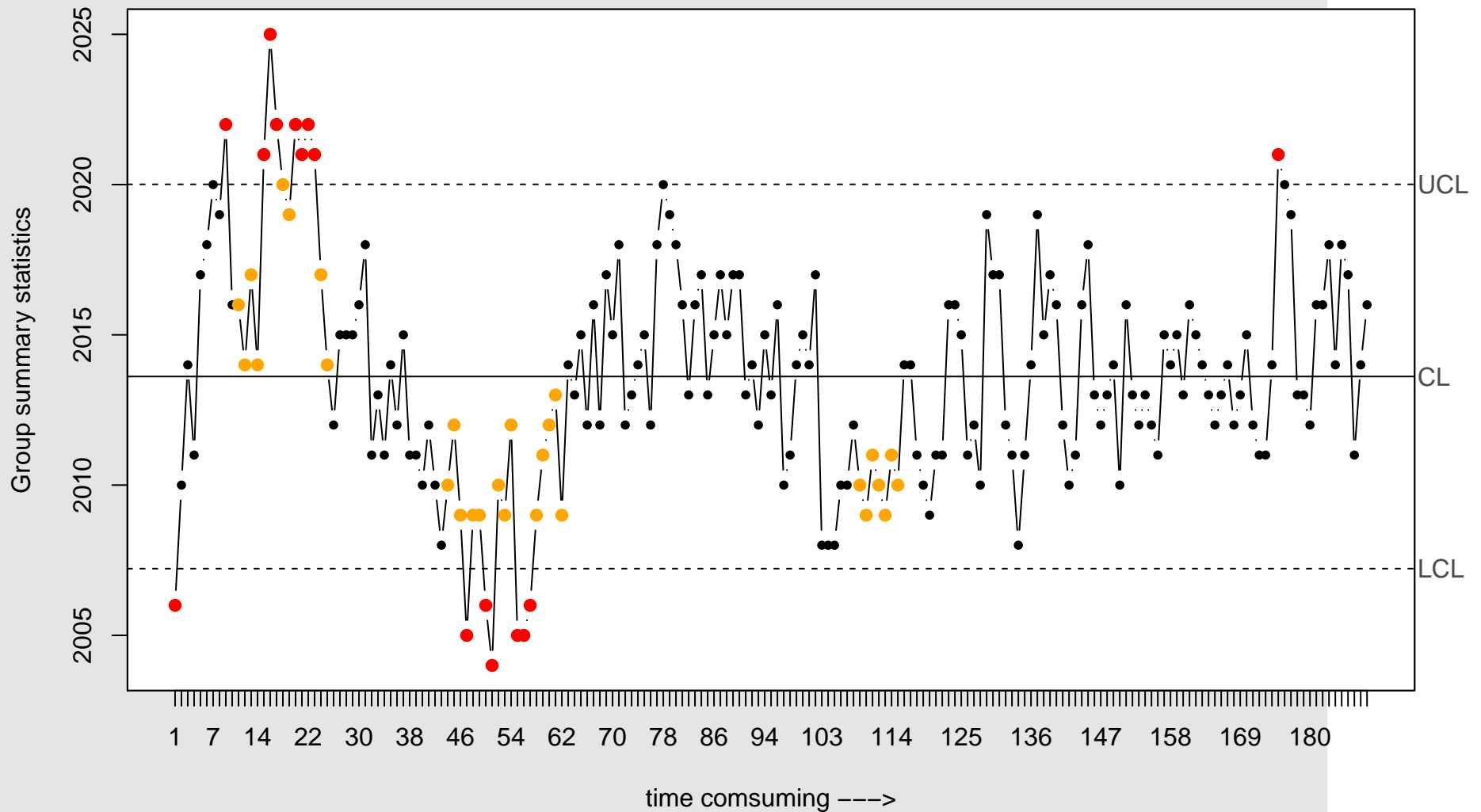
LCL = 2007.853

UCL = 2020.02

Number beyond limits = 14

Number violating runs = 35

262th column point of this product



Number of groups = 189

Center = 2013.614

StdDev = 2.131432

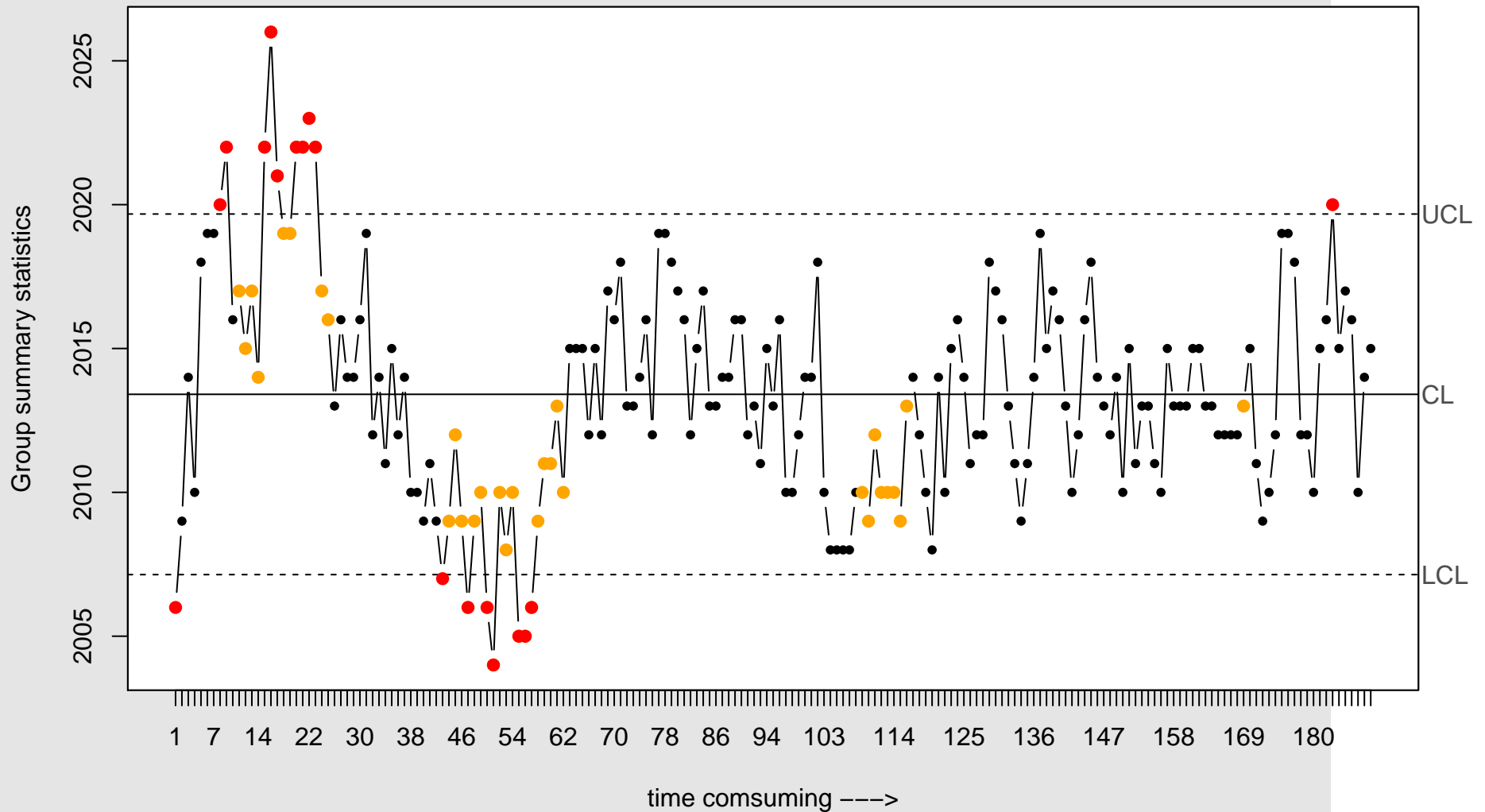
LCL = 2007.219

UCL = 2020.008

Number beyond limits = 16

Number violating runs = 41

263th column point of this product

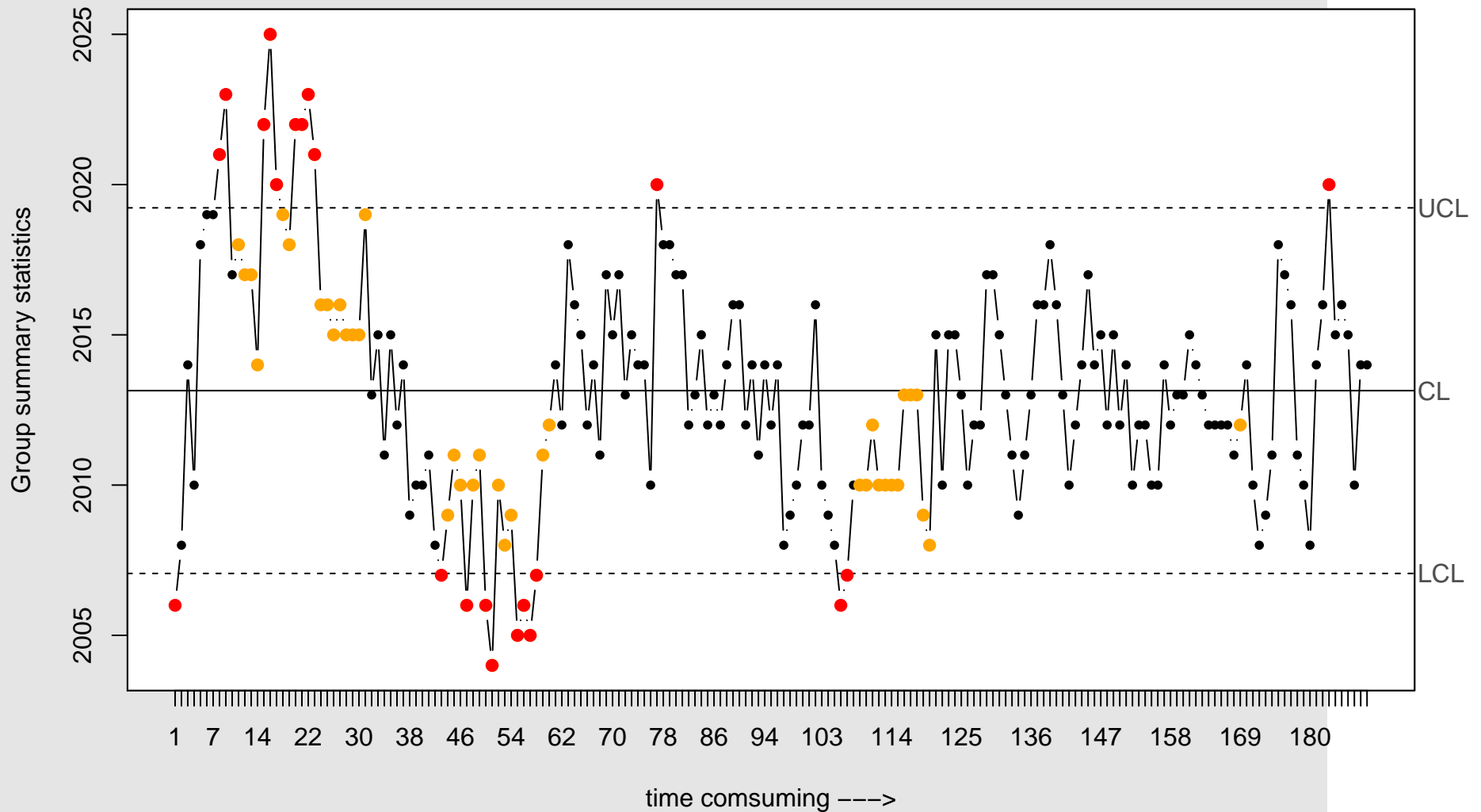


Number of groups = 189
 Center = 2013.407
 StdDev = 2.088992

LCL = 2007.14
 UCL = 2019.674

Number beyond limits = 18
 Number violating runs = 43

264th column point of this product

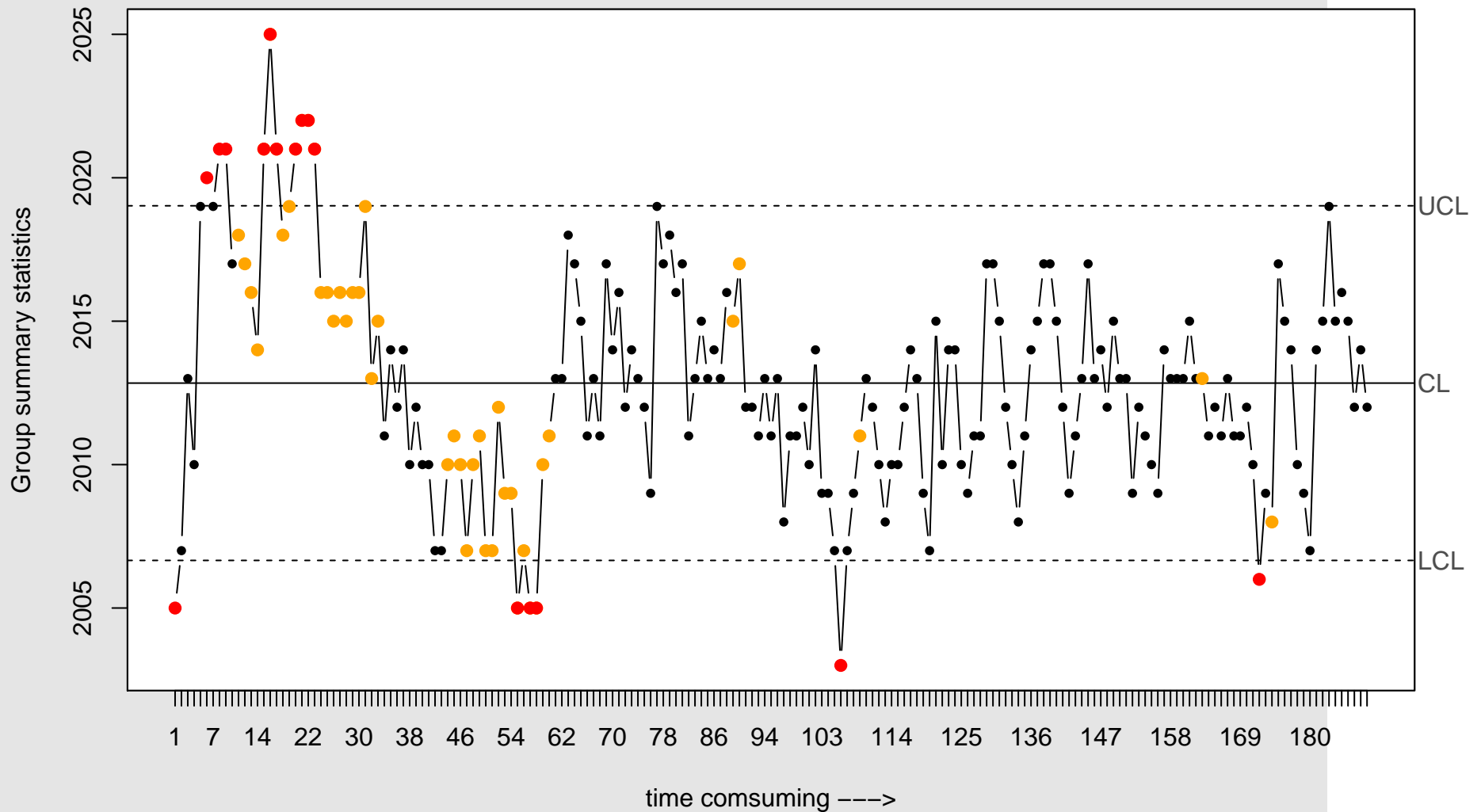


Number of groups = 189
 Center = 2013.143
 StdDev = 2.02769

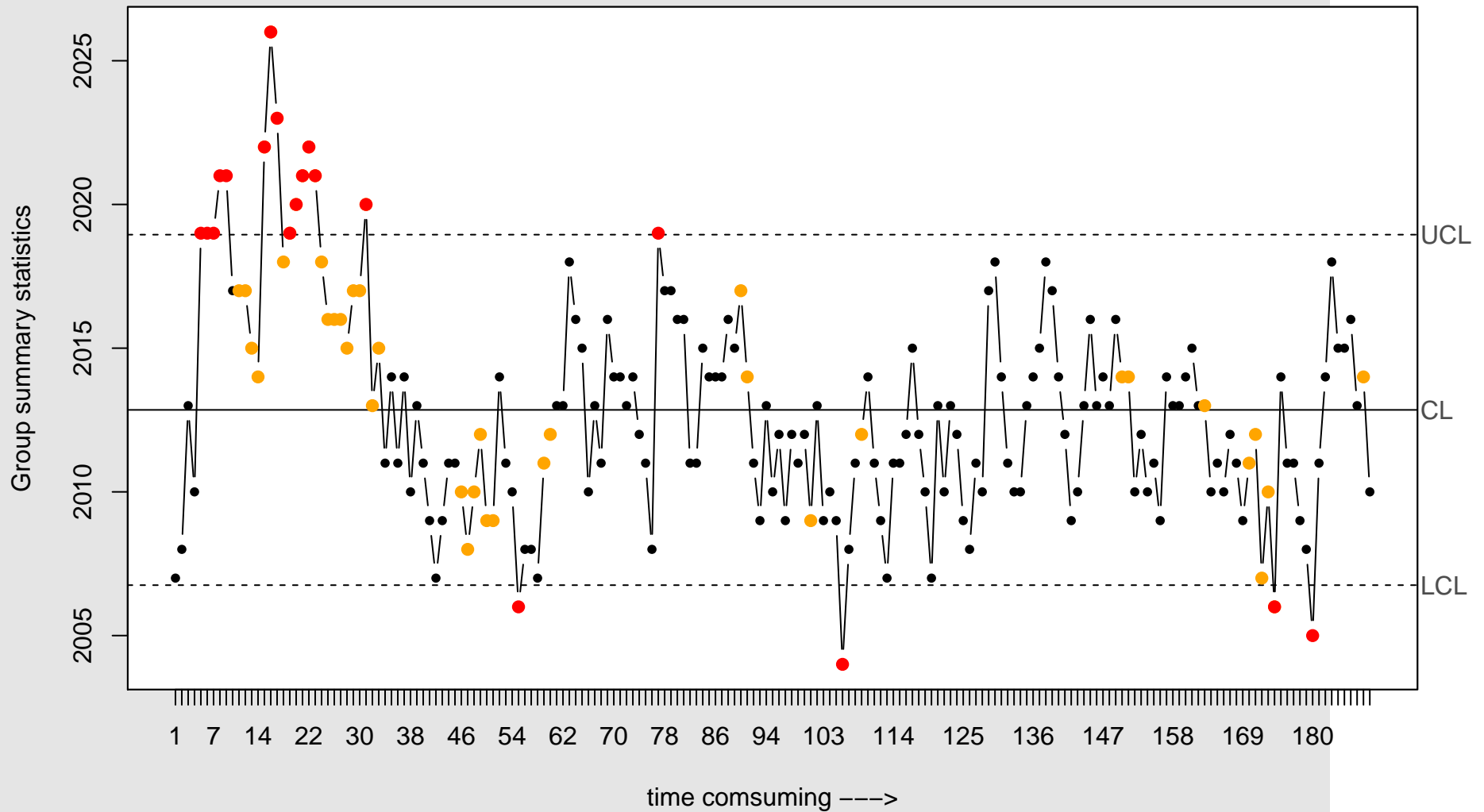
LCL = 2007.06
 UCL = 2019.226

Number beyond limits = 22
 Number violating runs = 51

265th column point of this product



266th column point of this product



Number of groups = 189

Center = 2012.852

StdDev = 2.032405

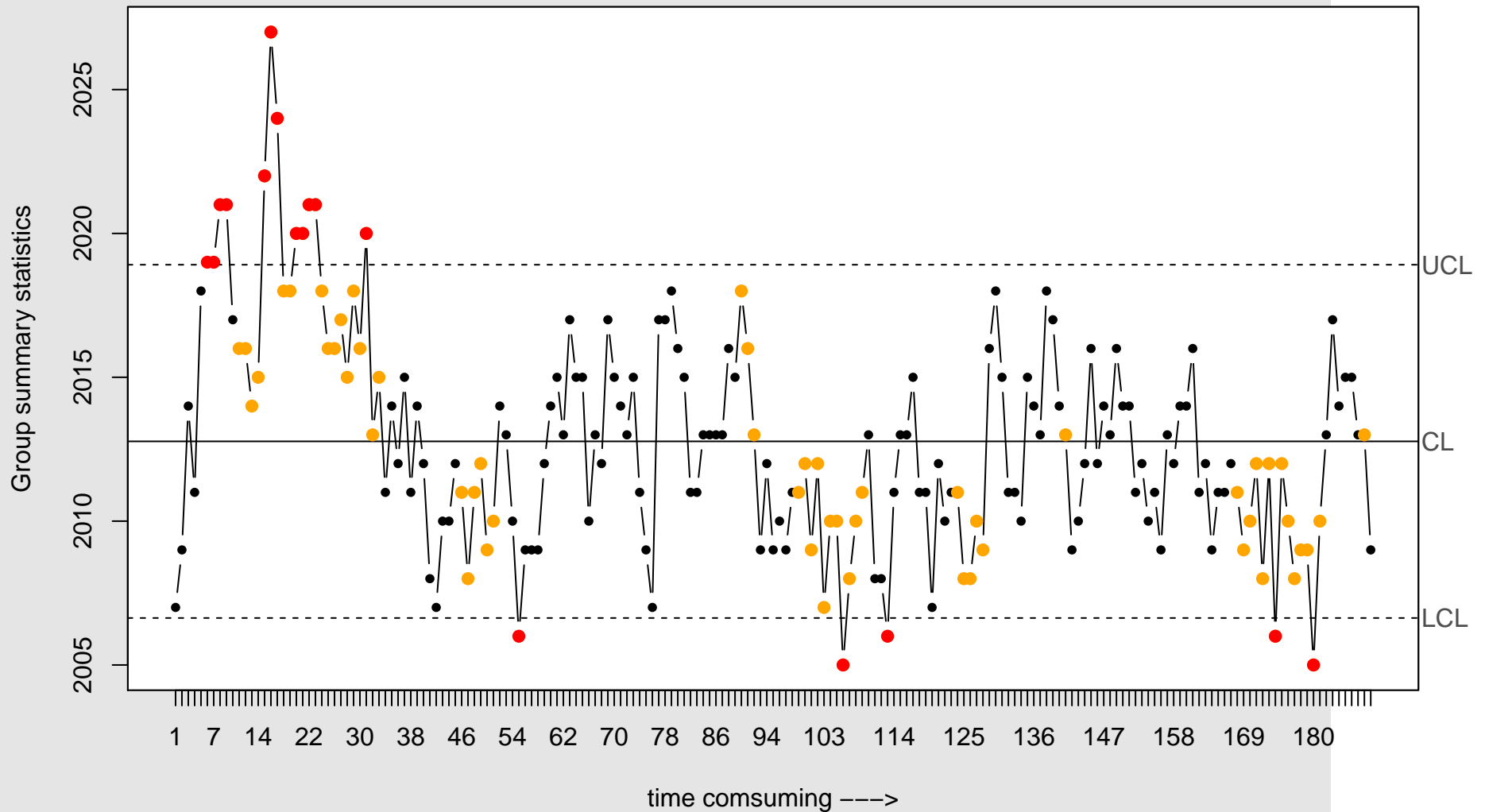
LCL = 2006.755

UCL = 2018.949

Number beyond limits = 19

Number violating runs = 44

267th column point of this product



Number of groups = 189

Center = 2012.772

StdDev = 2.046552

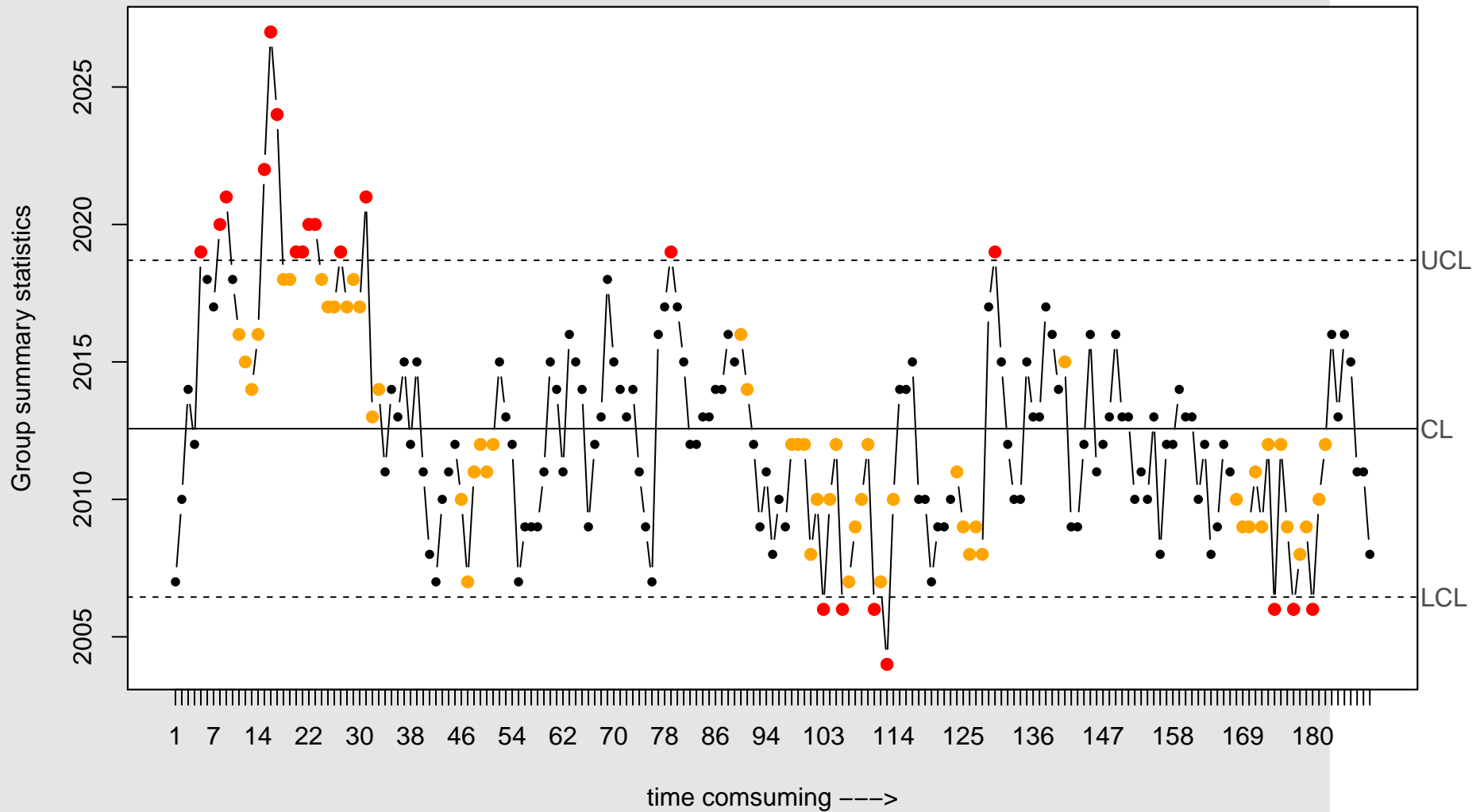
LCL = 2006.633

UCL = 2018.912

Number beyond limits = 17

Number violating runs = 64

268th column point of this product



Number of groups = 189

Center = 2012.571

StdDev = 2.041836

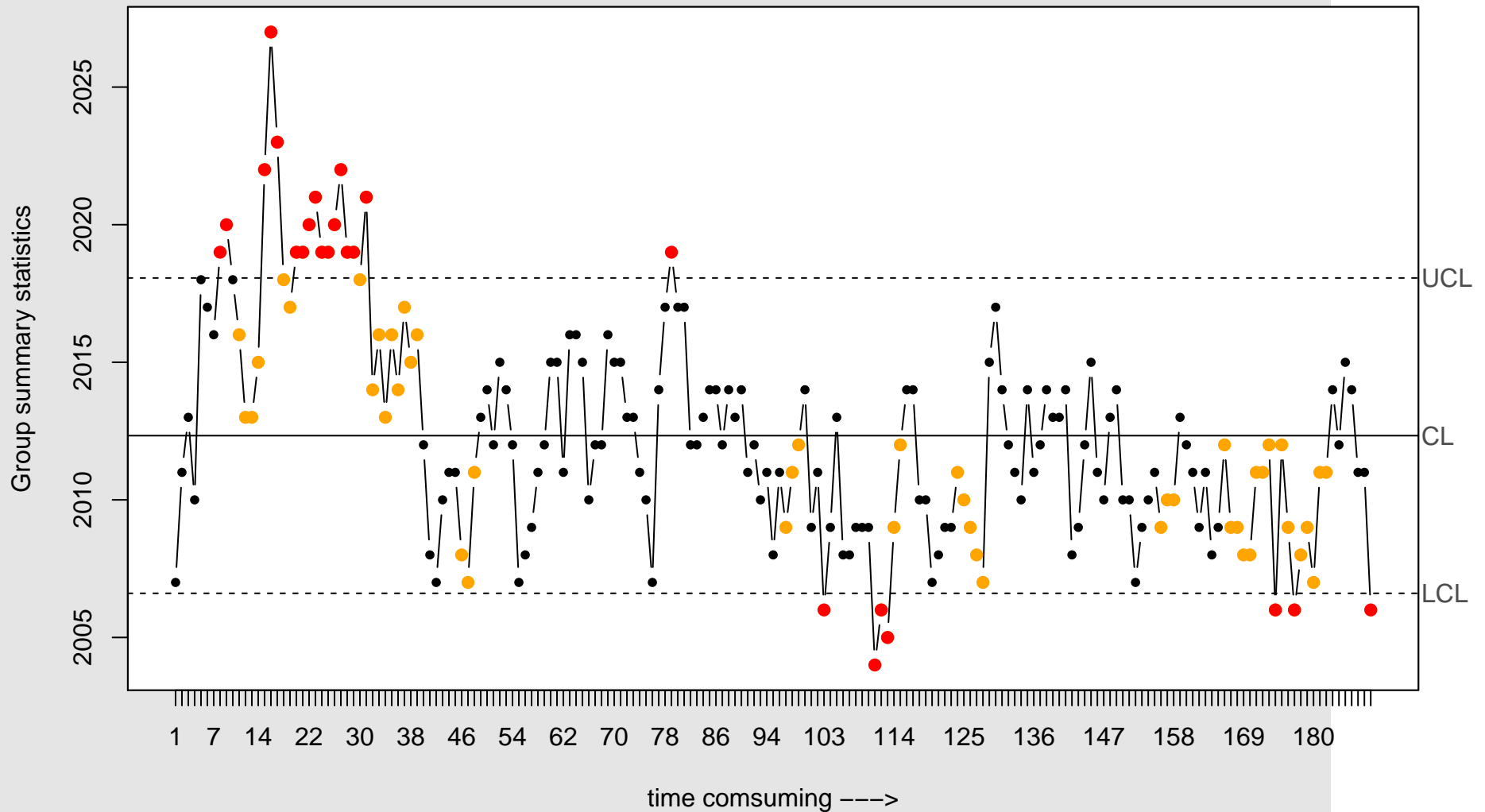
LCL = 2006.446

UCL = 2018.697

Number beyond limits = 21

Number violating runs = 69

269th column point of this product

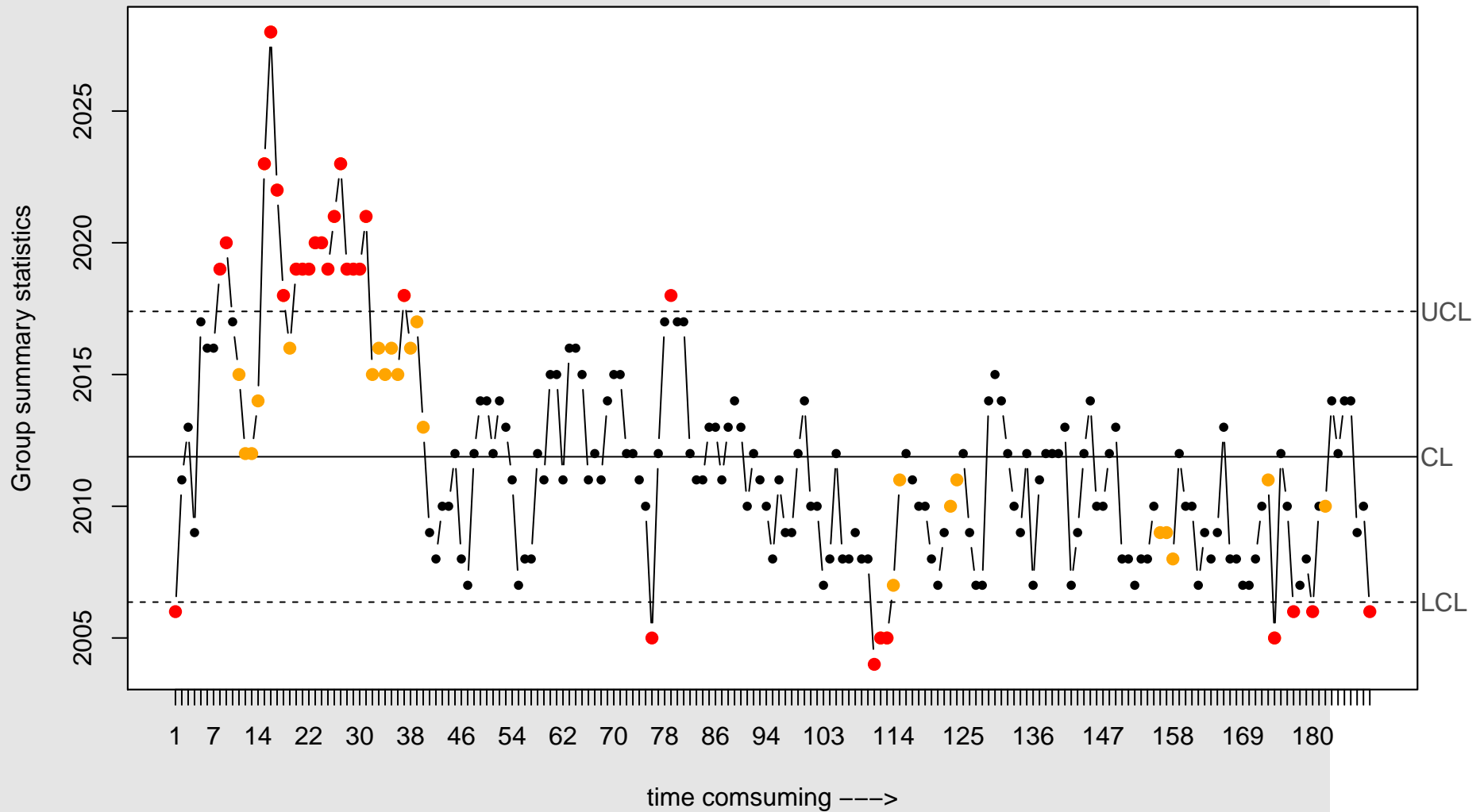


Number of groups = 189
 Center = 2012.333
 StdDev = 1.909801

LCL = 2006.604
 UCL = 2018.063

Number beyond limits = 24
 Number violating runs = 64

270th column point of this product



Number of groups = 189

Center = 2011.878

StdDev = 1.839067

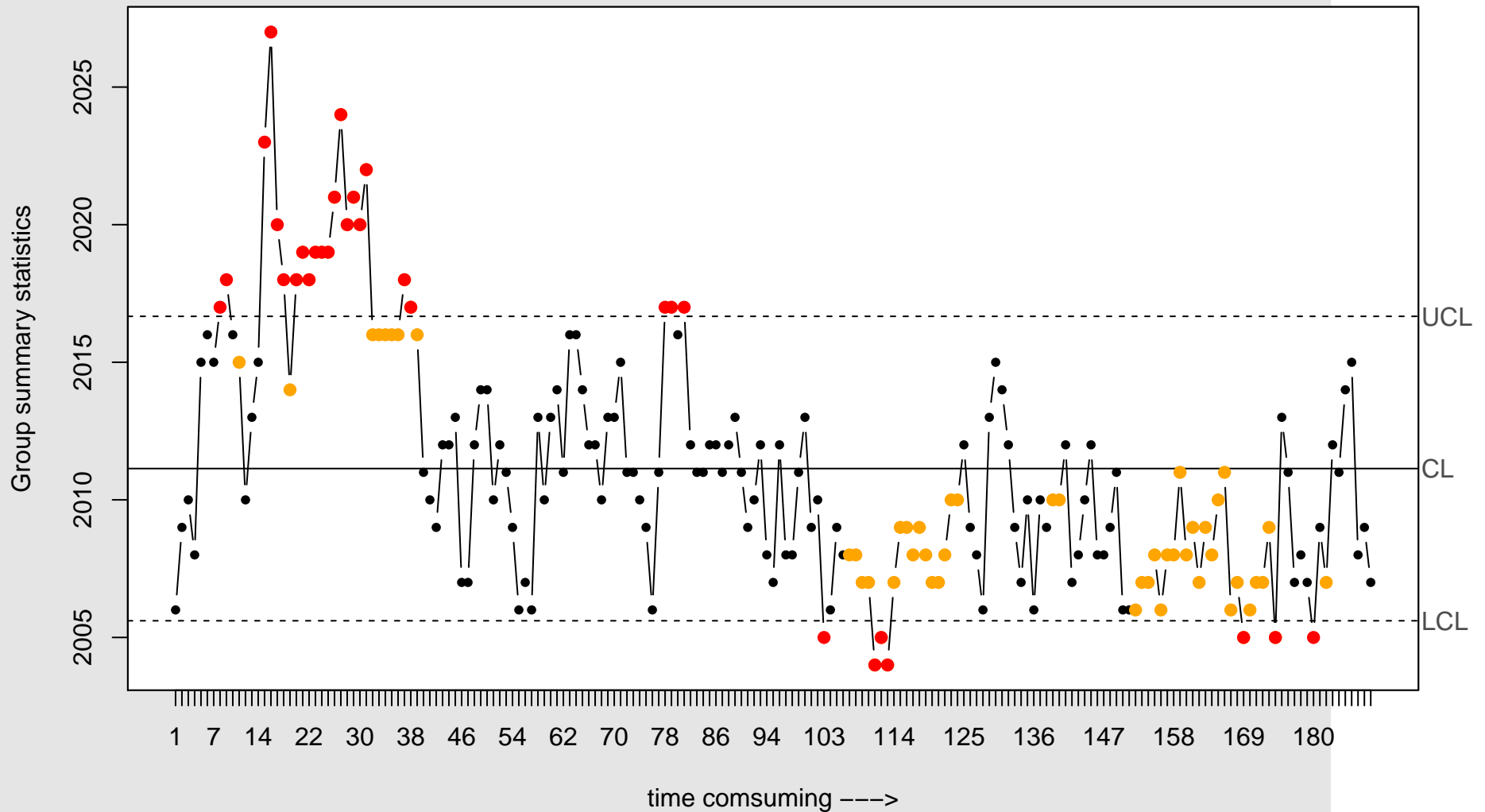
LCL = 2006.361

UCL = 2017.396

Number beyond limits = 29

Number violating runs = 42

271th column point of this product



Number of groups = 189

Center = 2011.138

StdDev = 1.843783

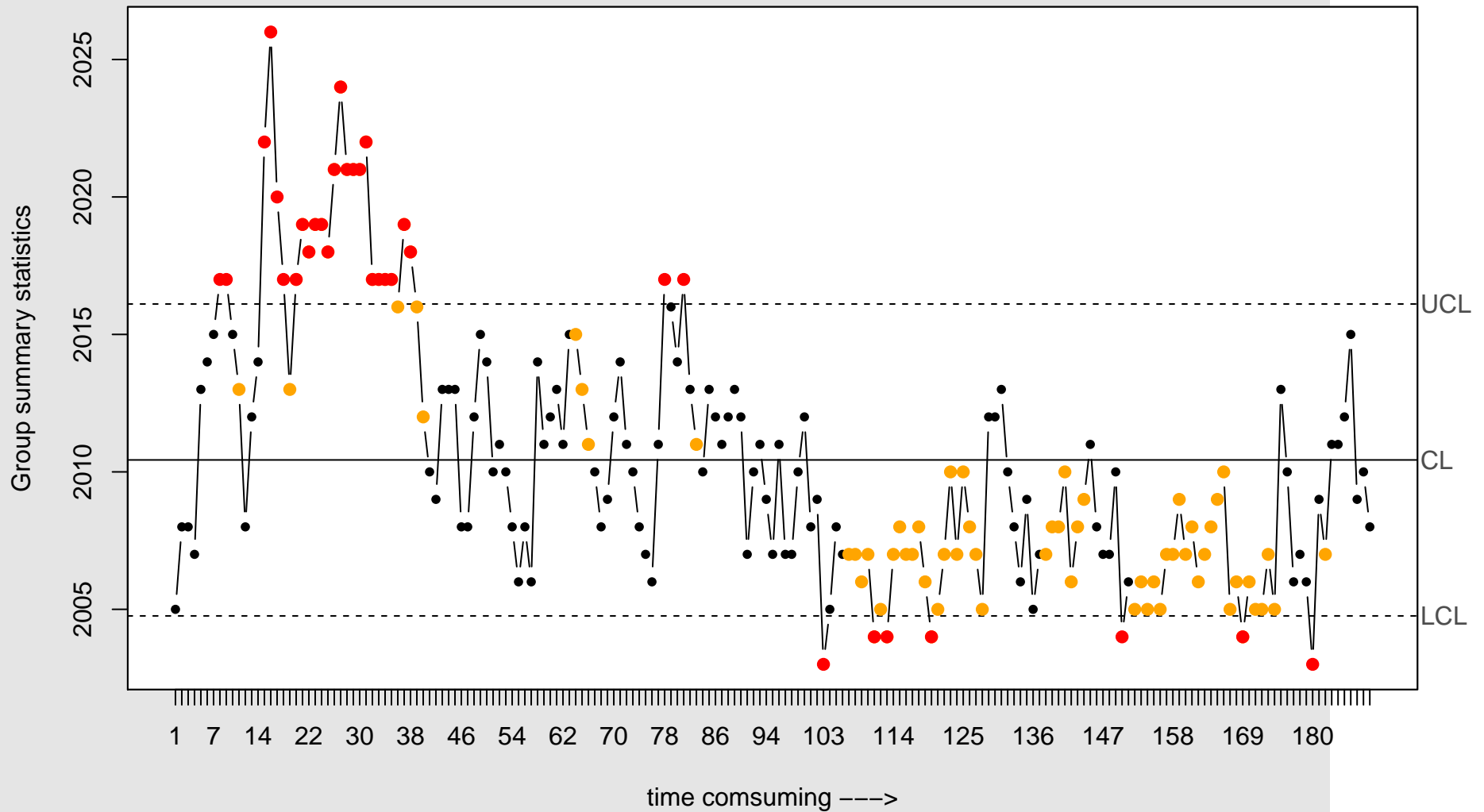
LCL = 2005.606

UCL = 2016.669

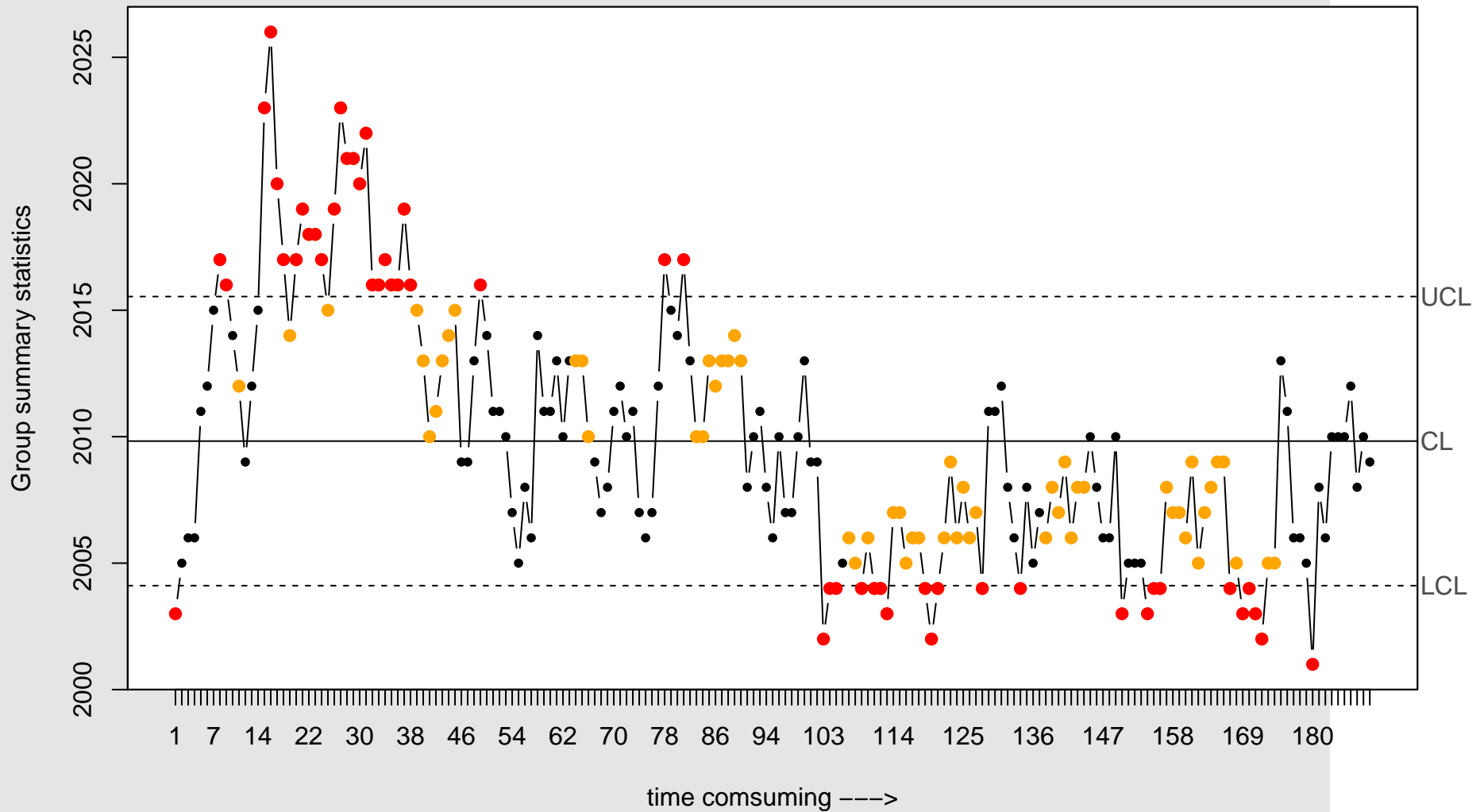
Number beyond limits = 30

Number violating runs = 66

272th column point of this product



273th column point of this product



Number of groups = 189

Center = 2009.825

StdDev = 1.905085

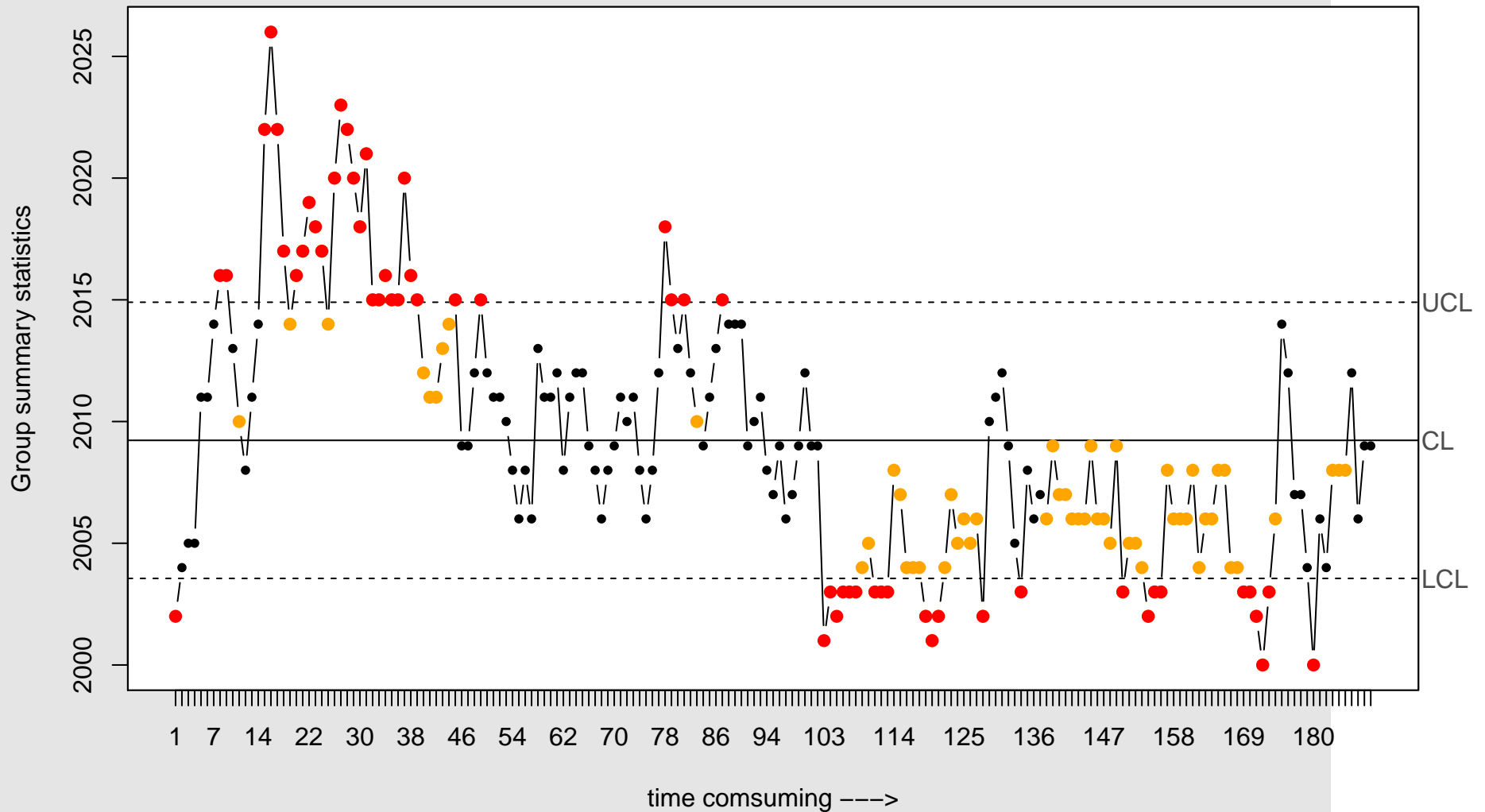
LCL = 2004.11

UCL = 2015.541

Number beyond limits = 50

Number violating runs = 87

274th column point of this product



Number of groups = 189

Center = 2009.228

StdDev = 1.890939

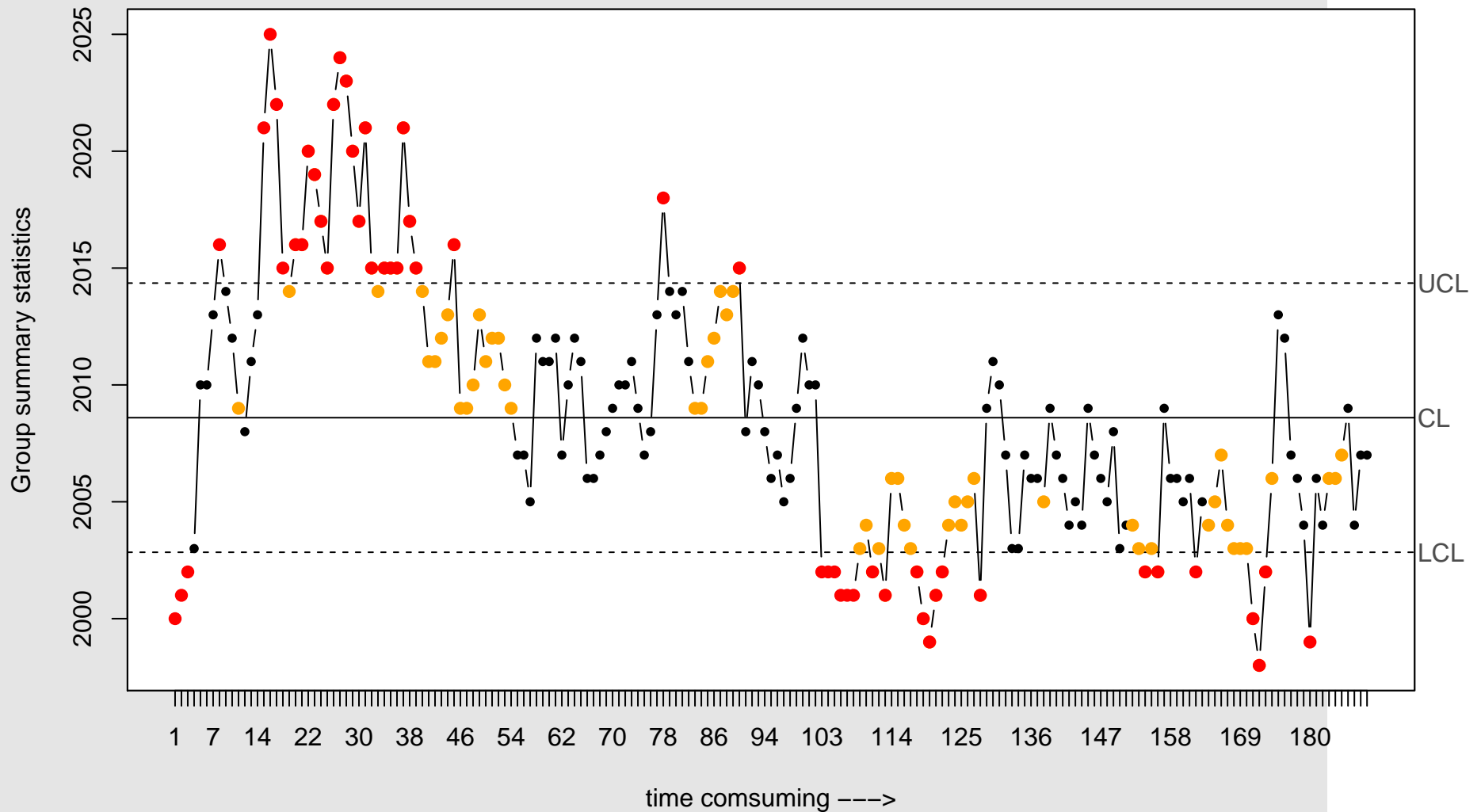
LCL = 2003.555

UCL = 2014.9

Number beyond limits = 56

Number violating runs = 91

275th column point of this product

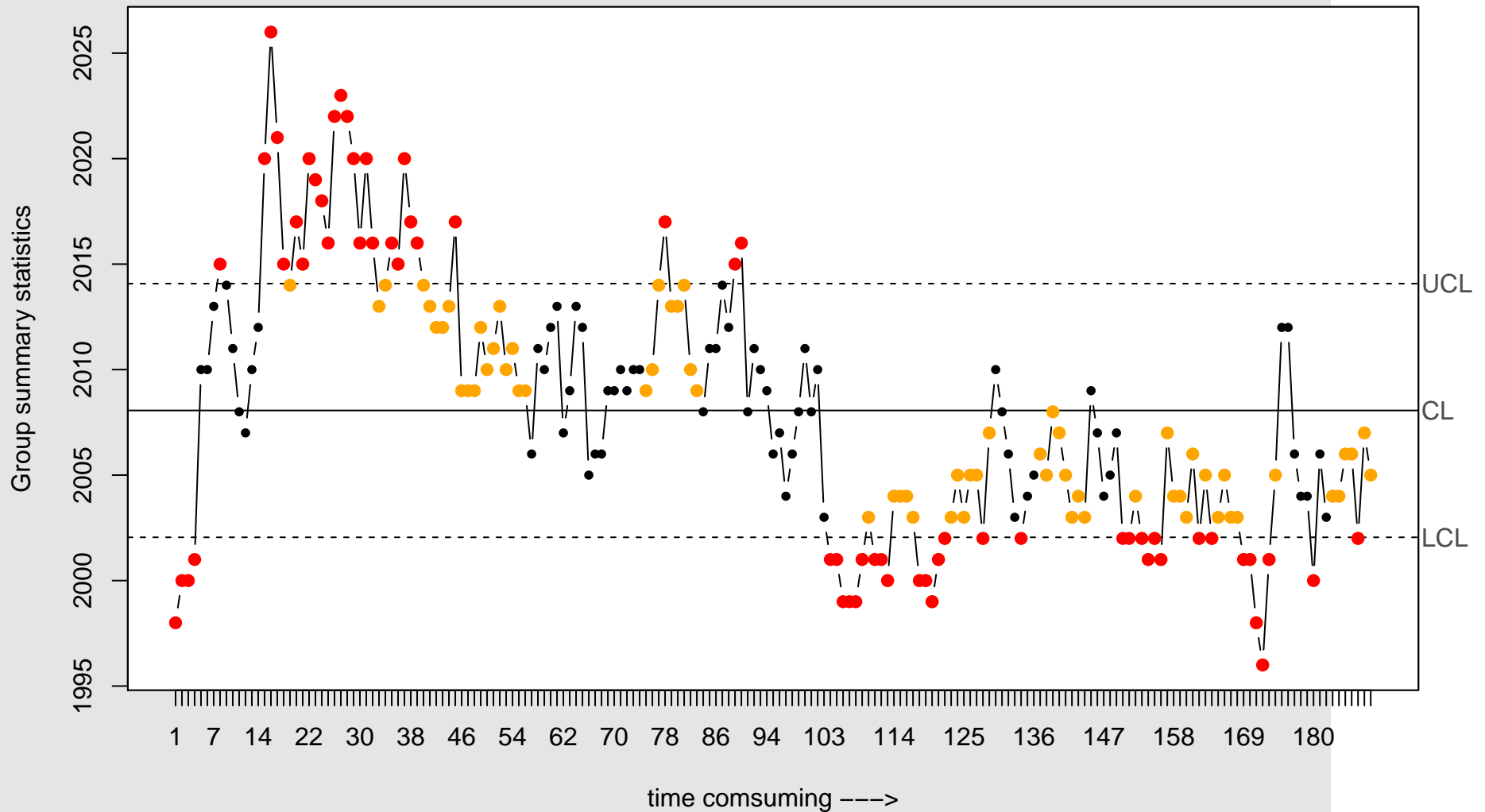


Number of groups = 189
 Center = 2008.598
 StdDev = 1.919232

LCL = 2002.84
 UCL = 2014.356

Number beyond limits = 51
 Number violating runs = 85

276th column point of this product

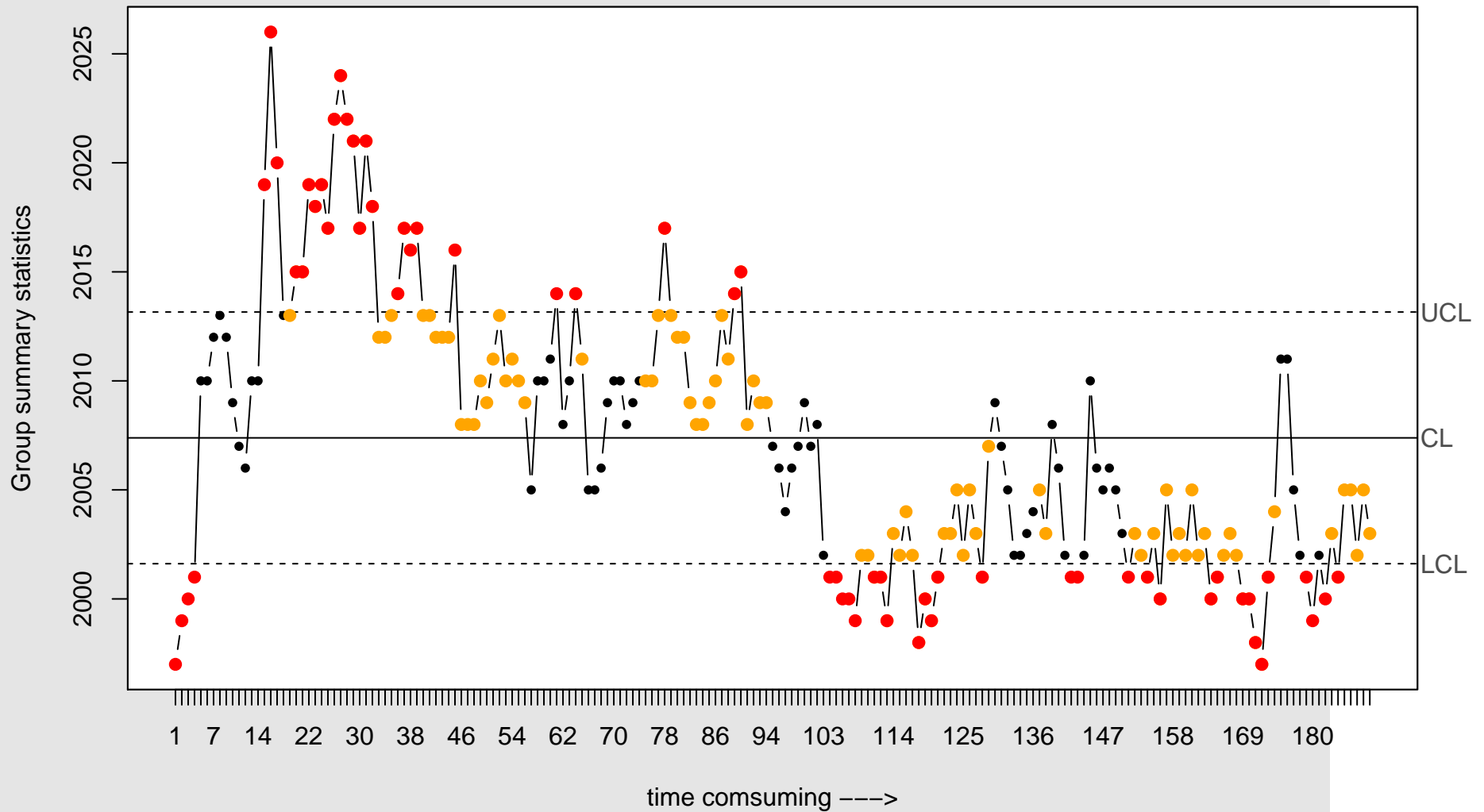


Number of groups = 189
 Center = 2008.063
 StdDev = 2.004112

LCL = 2002.051
 UCL = 2014.076

Number beyond limits = 62
 Number violating runs = 106

277th column point of this product



Number of groups = 189

Center = 2007.386

StdDev = 1.923947

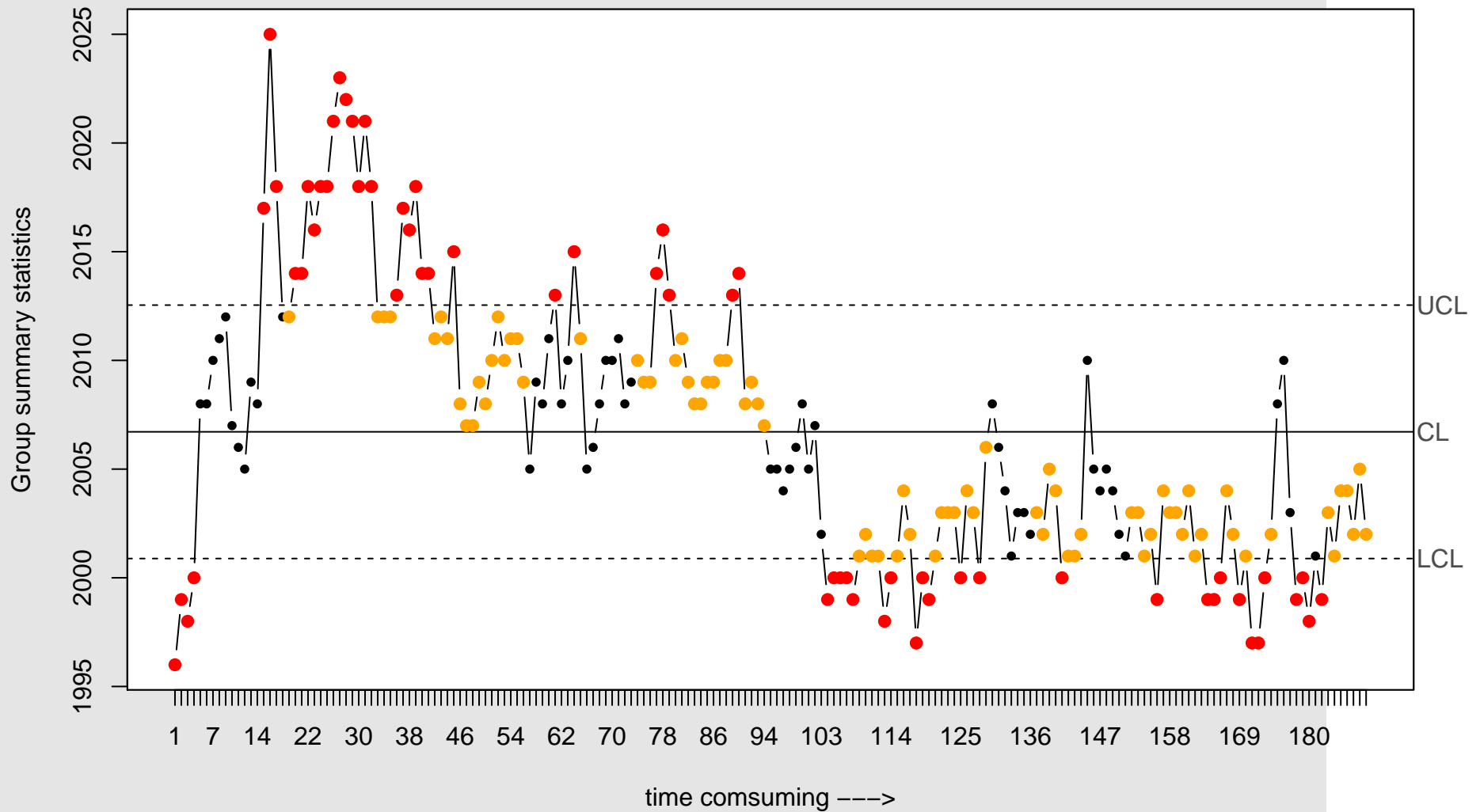
LCL = 2001.614

UCL = 2013.158

Number beyond limits = 59

Number violating runs = 113

278th column point of this product

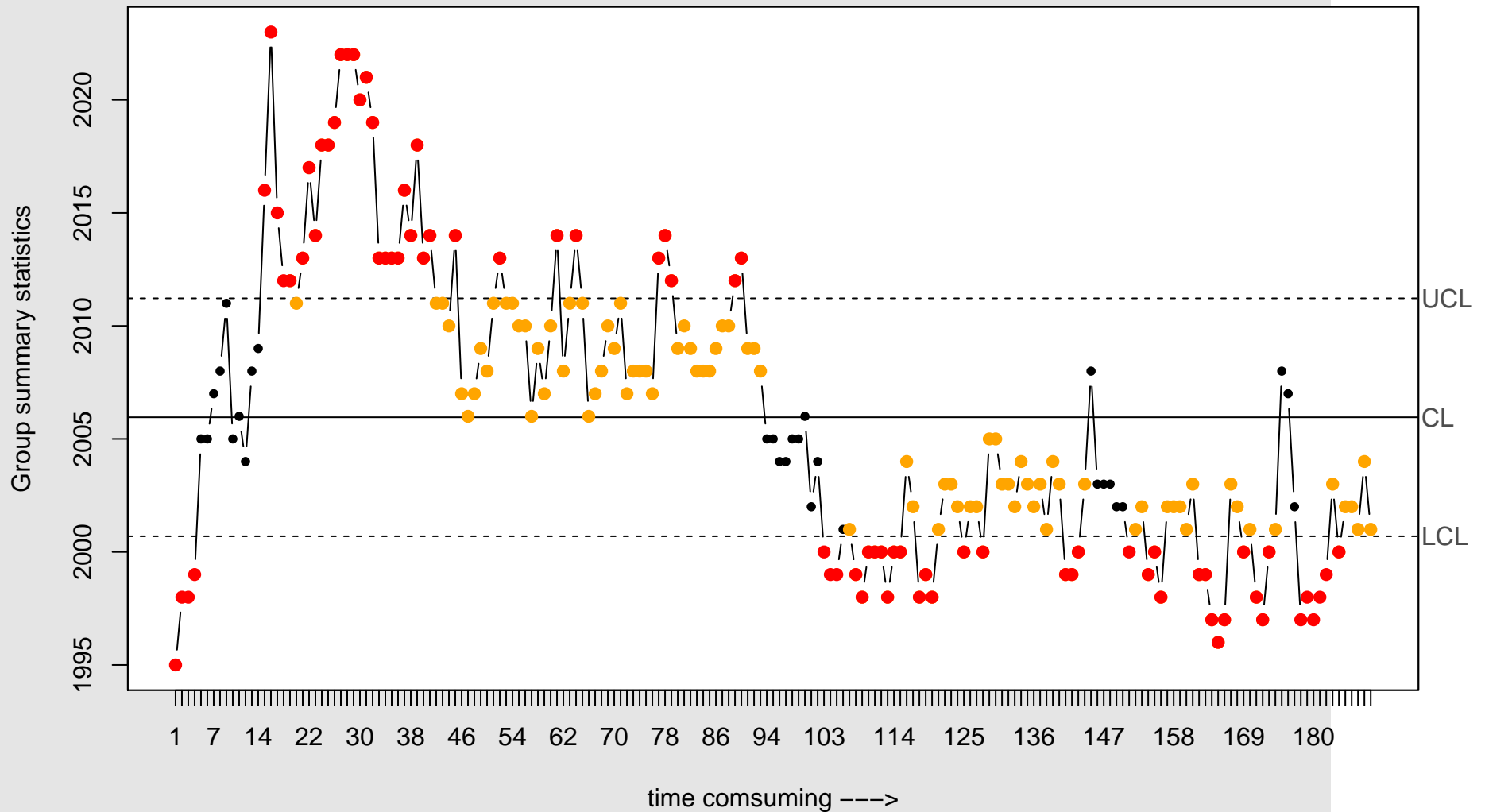


Number of groups = 189
 Center = 2006.714
 StdDev = 1.94281

LCL = 2000.886
 UCL = 2012.543

Number beyond limits = 59
 Number violating runs = 120

279th column point of this product

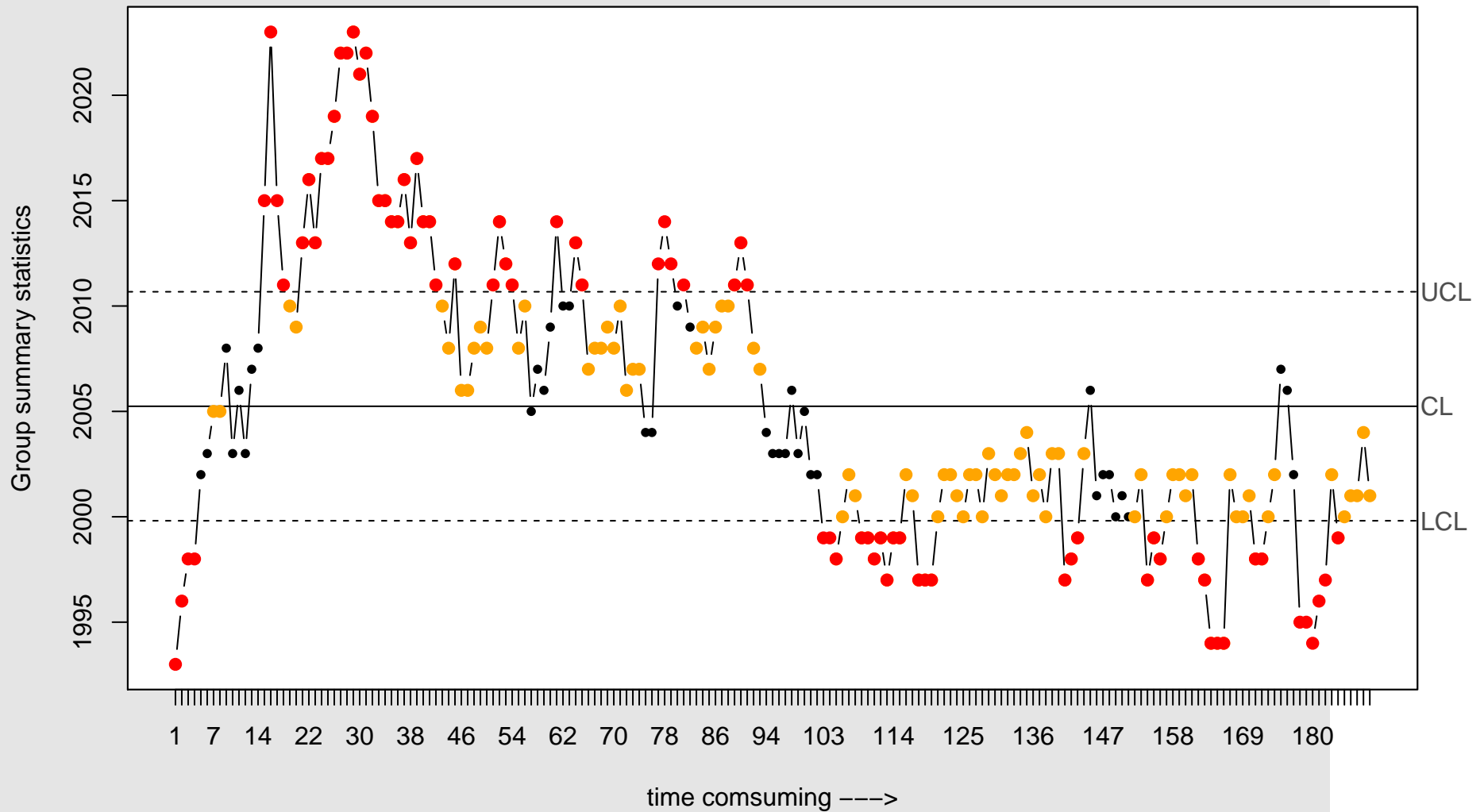


Number of groups = 189
Center = 2005.958
StdDev = 1.754187

LCL = 2000.695
UCL = 2011.22

Number beyond limits = 77
Number violating runs = 143

280th column point of this product

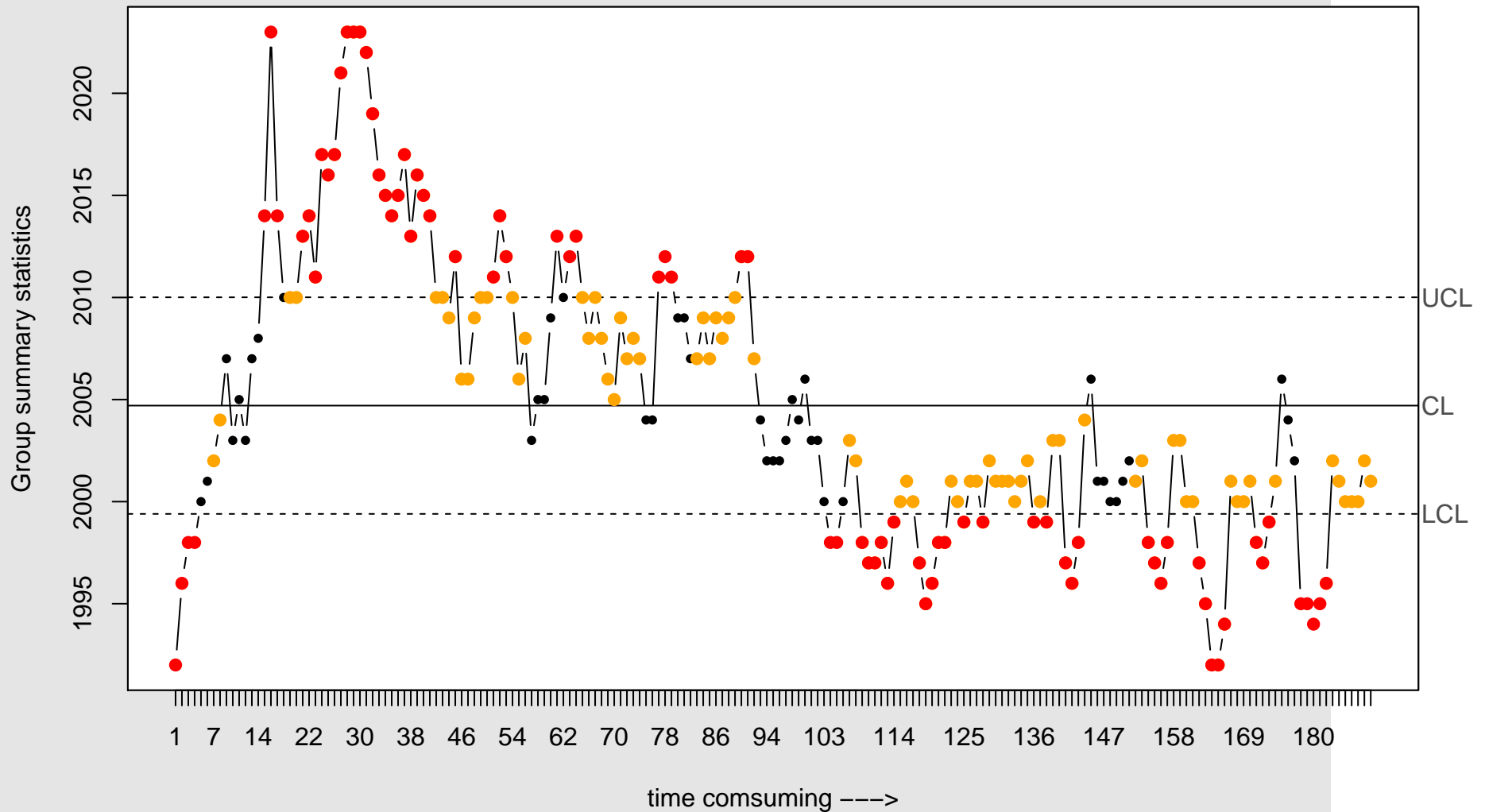


Number of groups = 189
Center = 2005.243
StdDev = 1.810774

LCL = 1999.811
UCL = 2010.676

Number beyond limits = 77
Number violating runs = 132

281th column point of this product

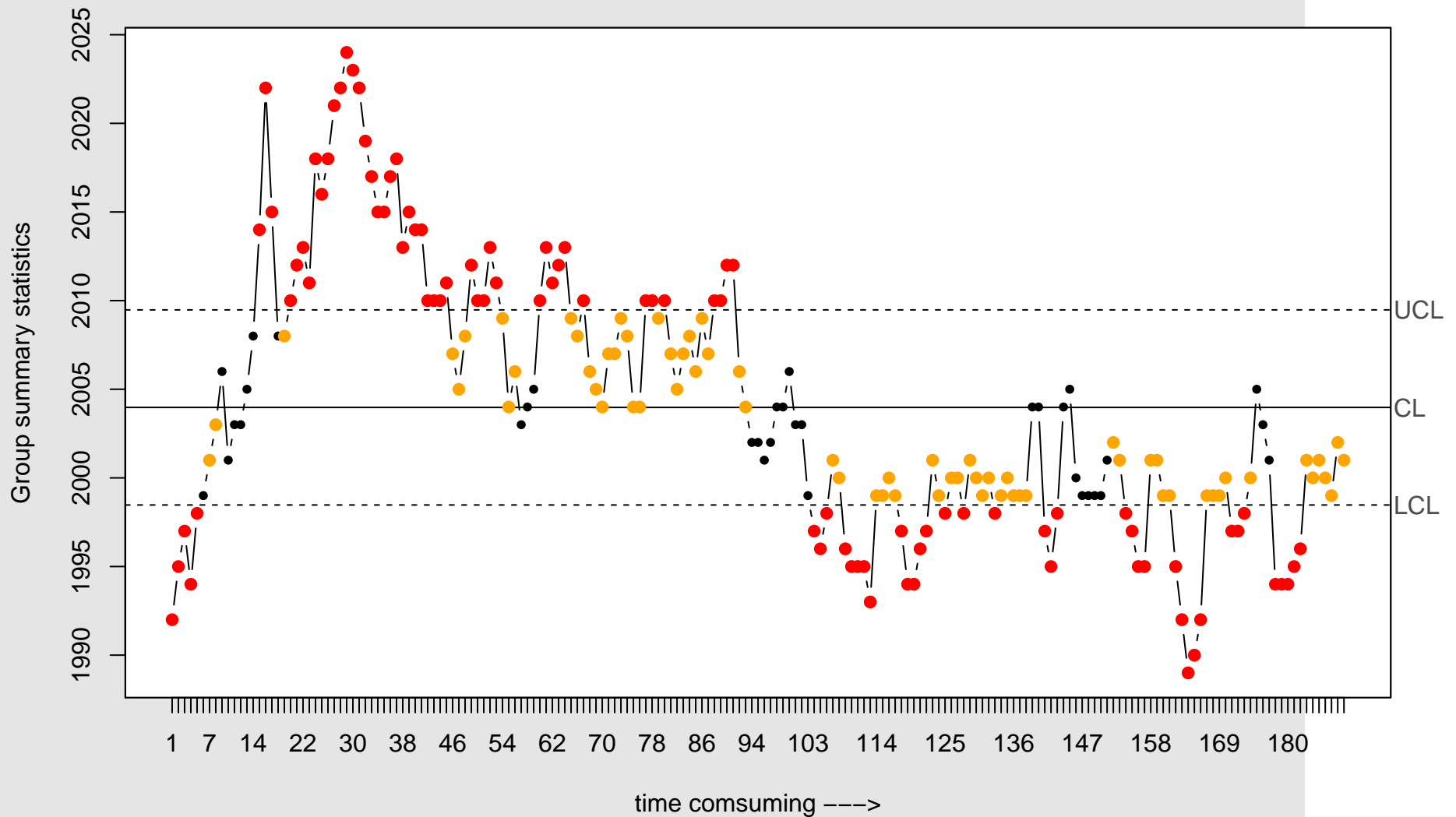


Number of groups = 189
 Center = 2004.704
 StdDev = 1.768334

LCL = 1999.399
 UCL = 2010.009

Number beyond limits = 77
 Number violating runs = 130

282th column point of this product



Number of groups = 189

Center = 2003.974

StdDev = 1.834352

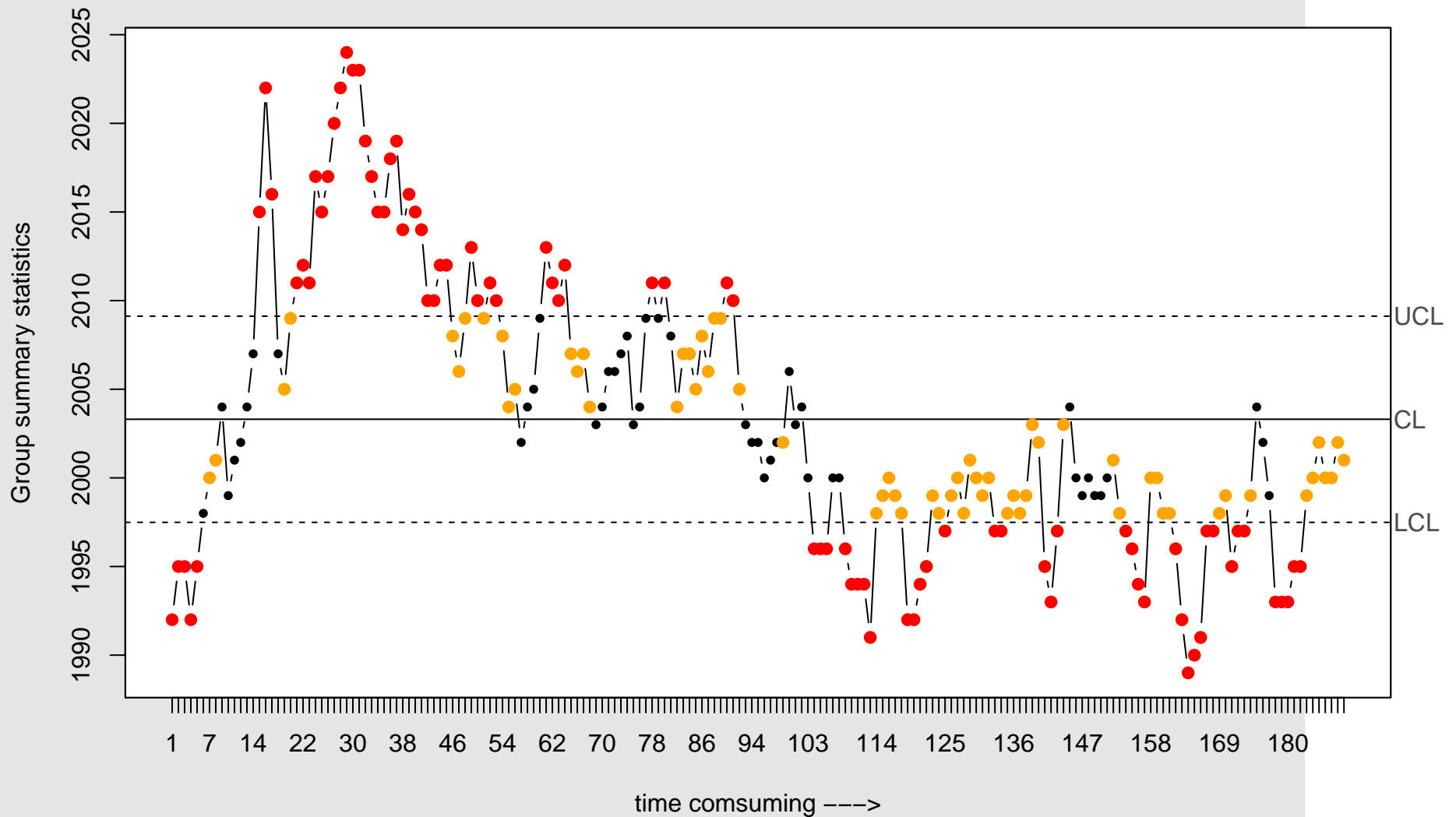
LCL = 1998.477

UCL = 2009.477

Number beyond limits = 88

Number violating runs = 133

283th column point of this product



Number of groups = 189

Center = 2003.307

StdDev = 1.938094

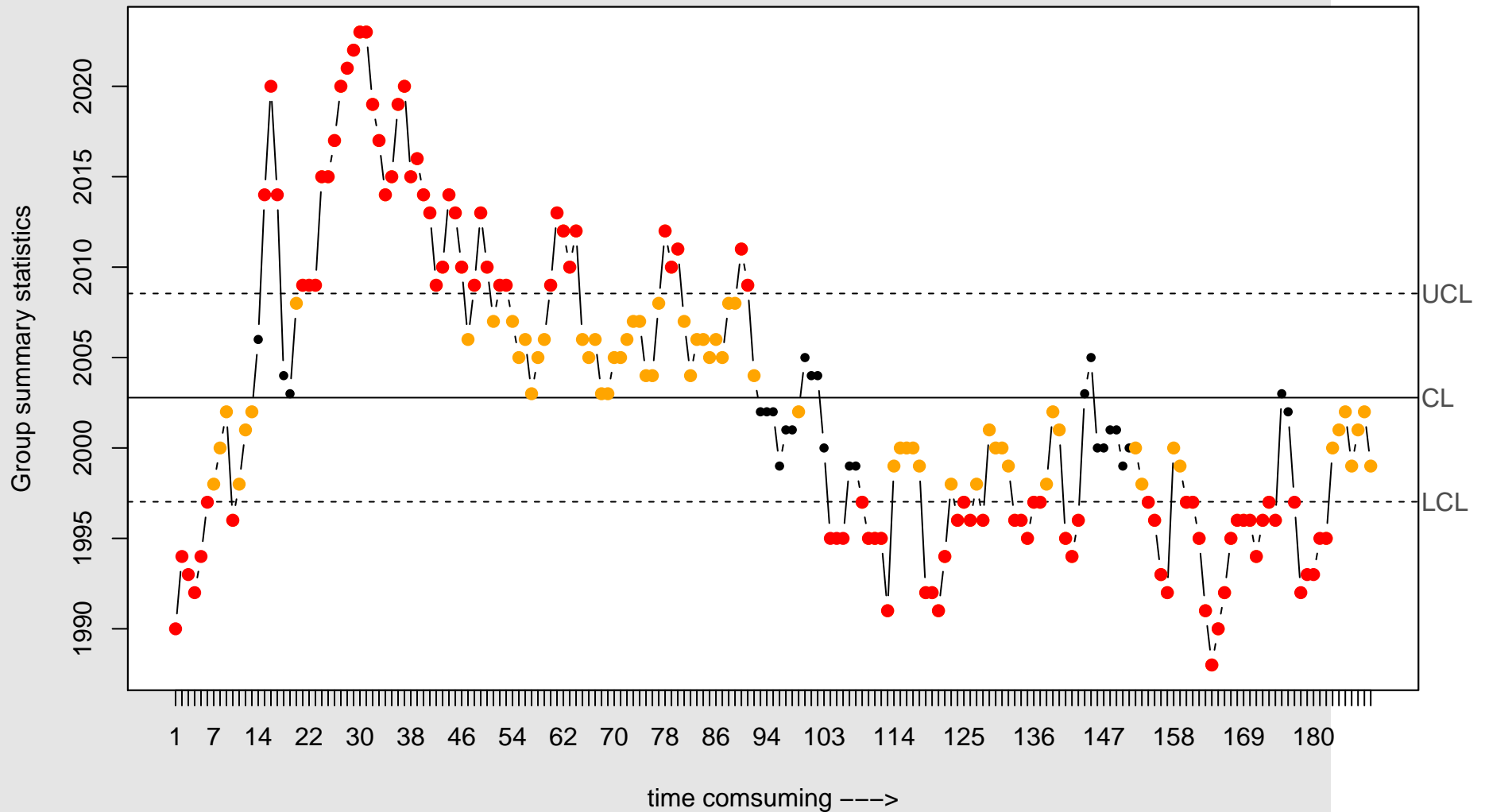
LCL = 1997.493

UCL = 2009.121

Number beyond limits = 82

Number violating runs = 124

284th column point of this product



Number of groups = 189

Center = 2002.783

StdDev = 1.919232

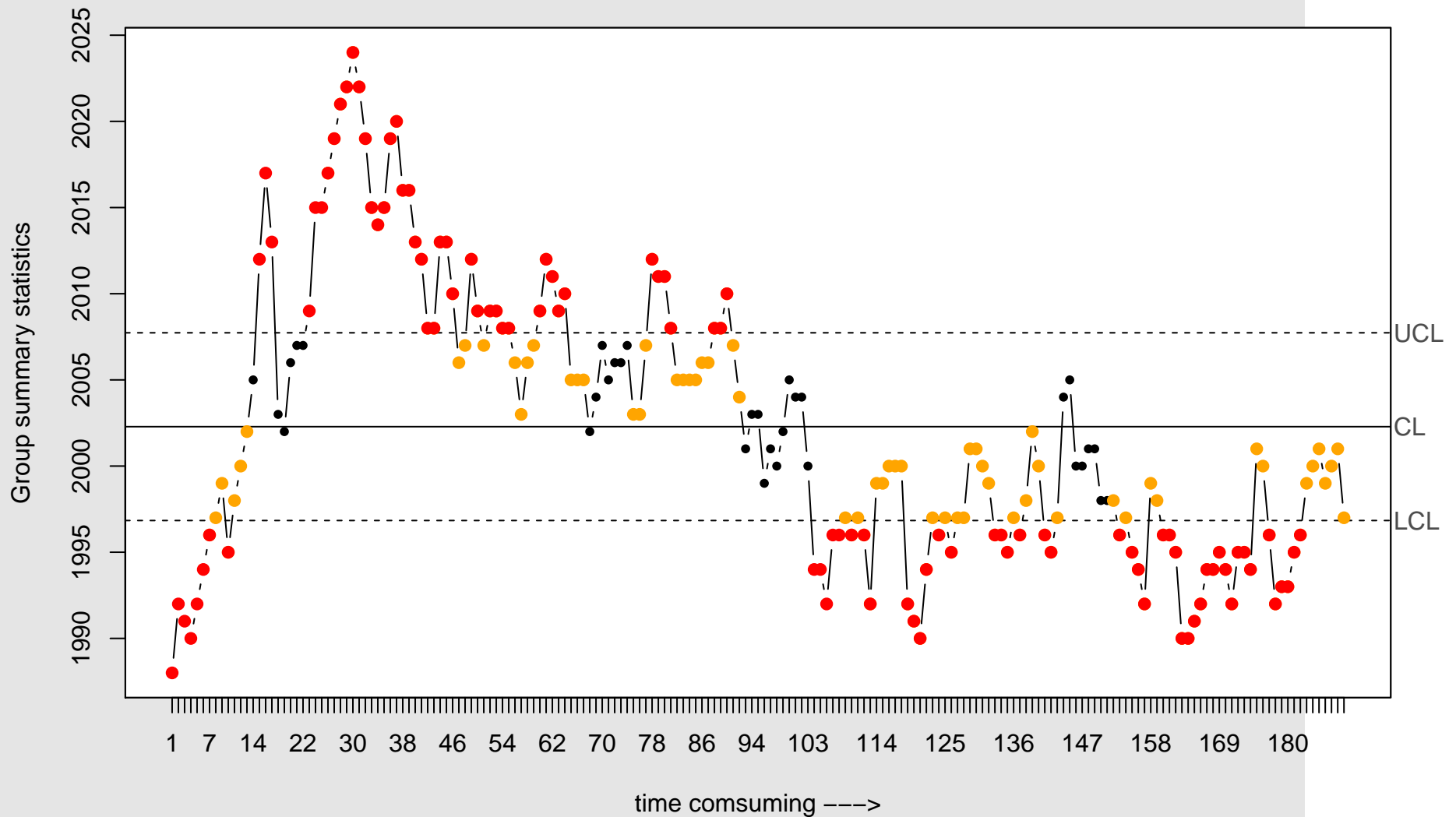
LCL = 1997.025

UCL = 2008.541

Number beyond limits = 100

Number violating runs = 147

285th column point of this product

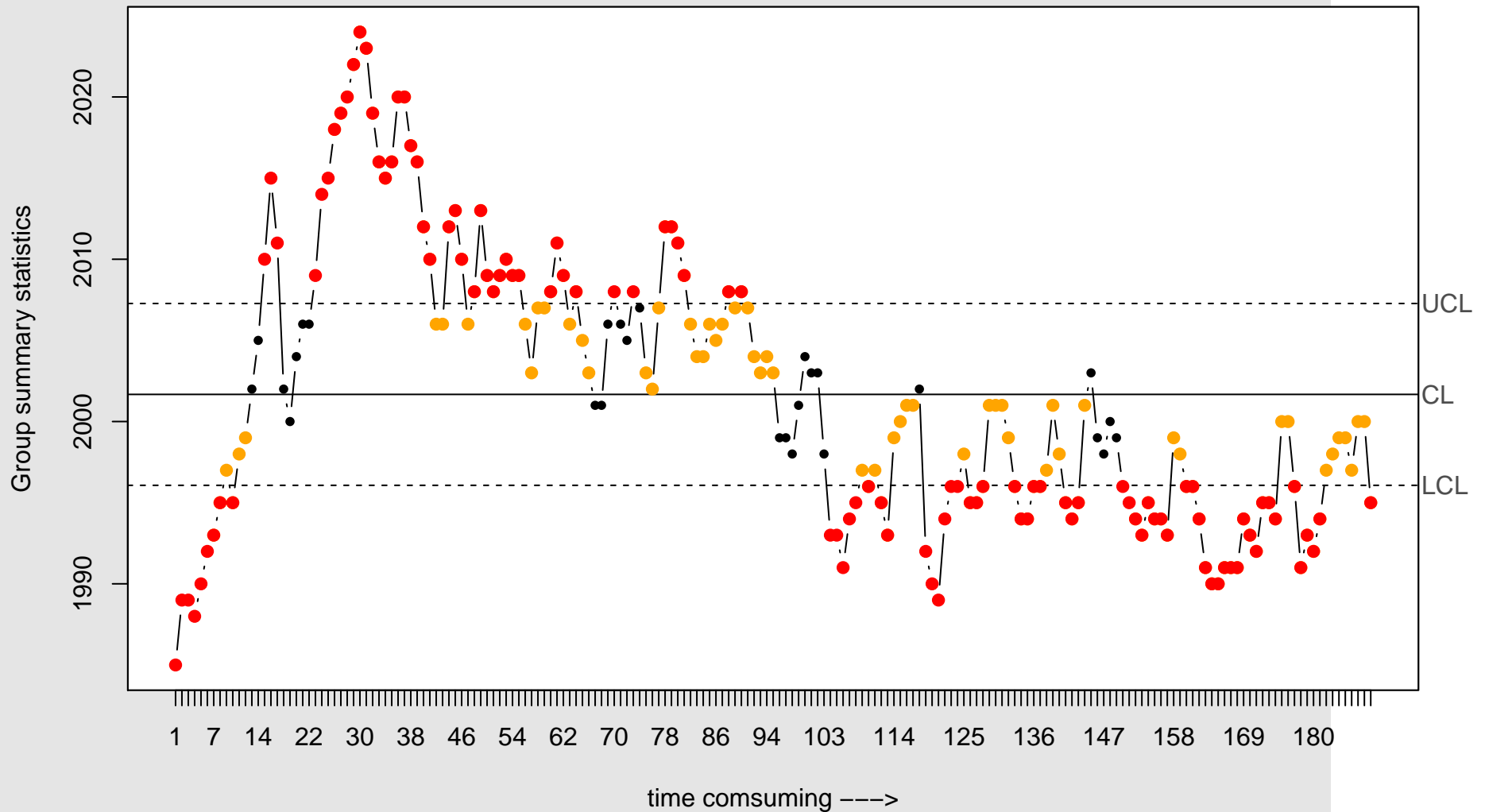


Number of groups = 189
 Center = 2002.286
 StdDev = 1.81549

LCL = 1996.839
 UCL = 2007.732

Number beyond limits = 98
 Number violating runs = 140

286th column point of this product

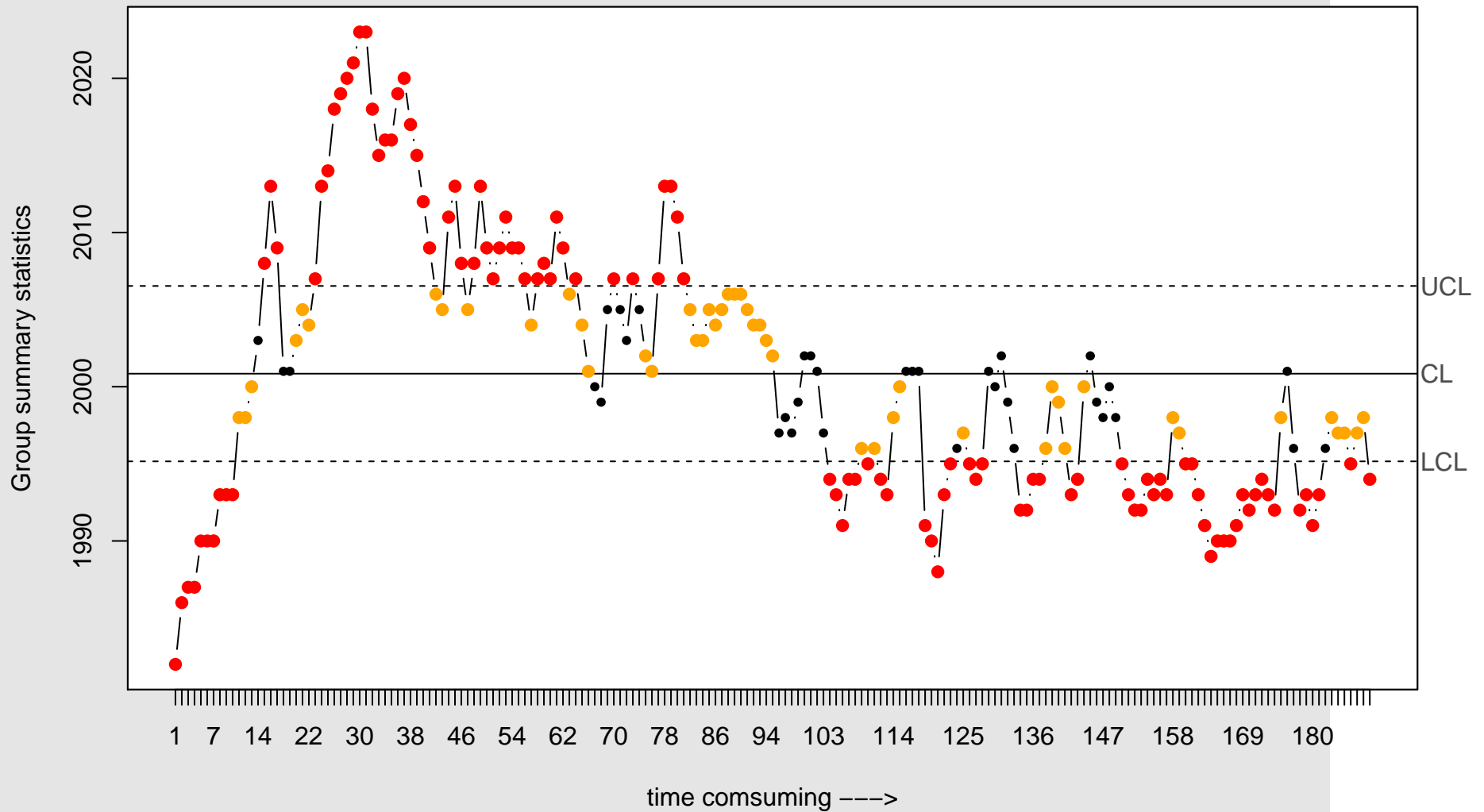


Number of groups = 189
 Center = 2001.672
 StdDev = 1.867361

LCL = 1996.07
 UCL = 2007.274

Number beyond limits = 108
 Number violating runs = 135

287th column point of this product

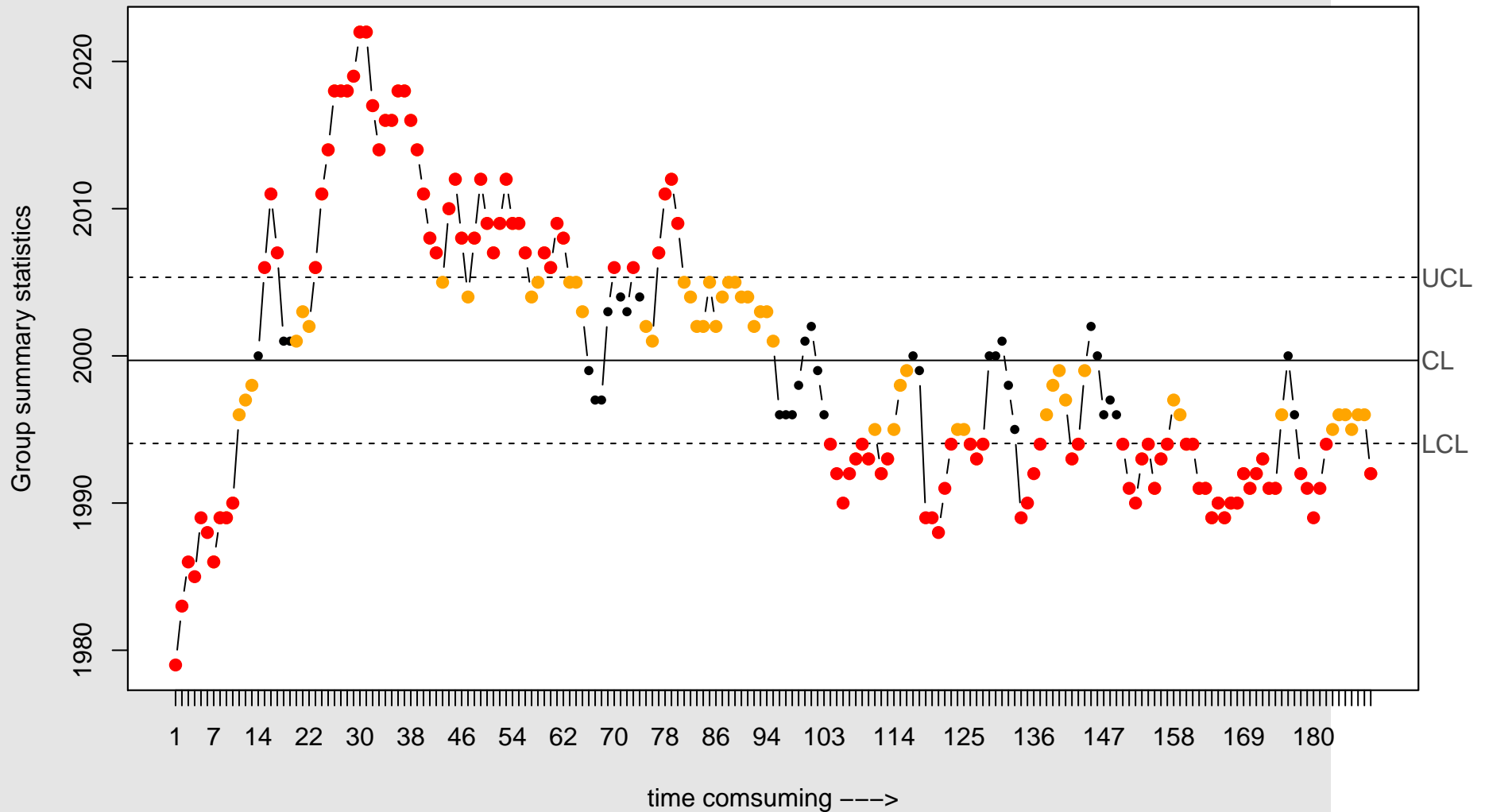


Number of groups = 189
Center = 2000.847
StdDev = 1.895654

LCL = 1995.16
UCL = 2006.534

Number beyond limits = 108
Number violating runs = 124

288th column point of this product

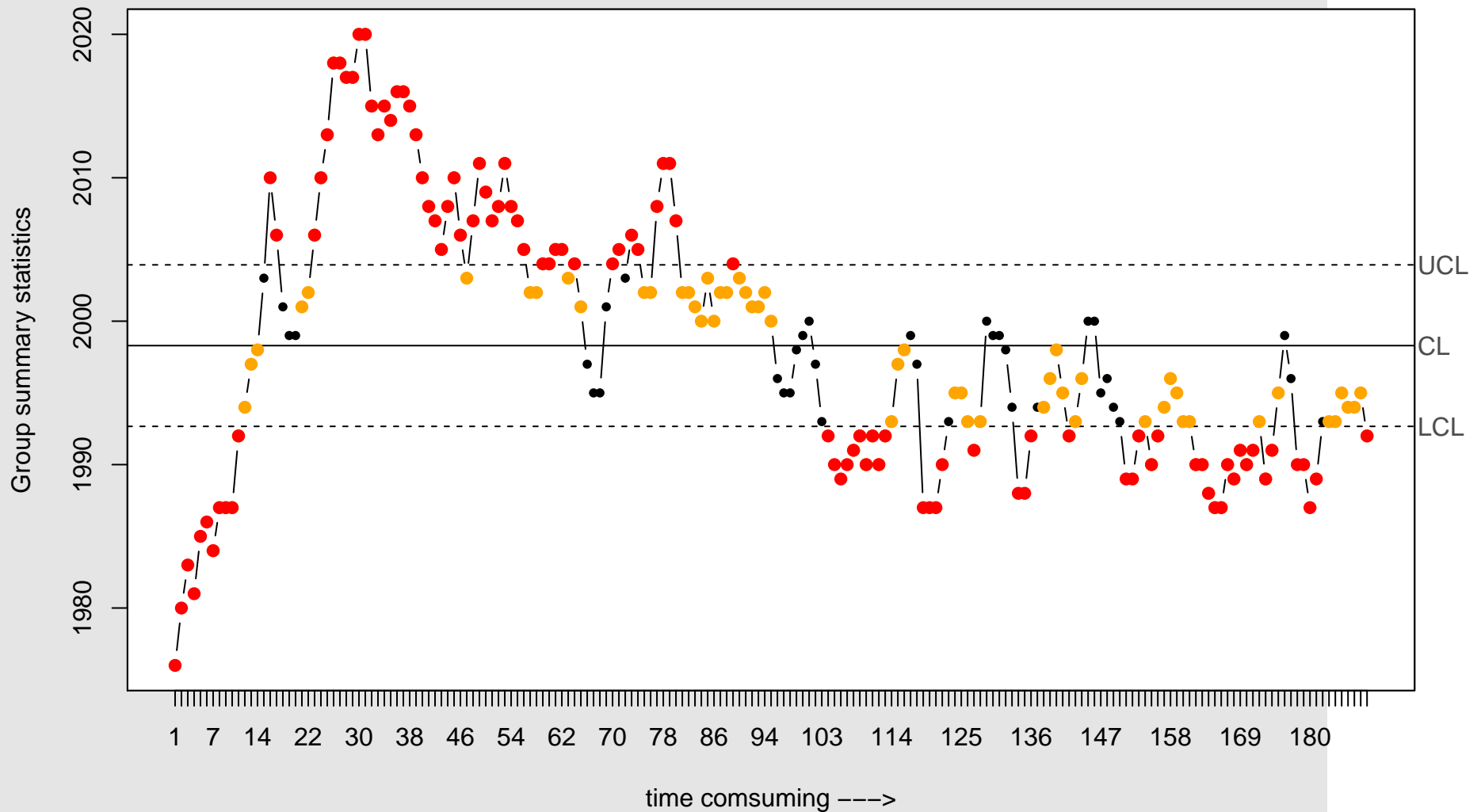


Number of groups = 189
 Center = 1999.693
 StdDev = 1.881507

LCL = 1994.049
 UCL = 2005.338

Number beyond limits = 107
 Number violating runs = 125

289th column point of this product



Number of groups = 189

Center = 1998.296

StdDev = 1.876792

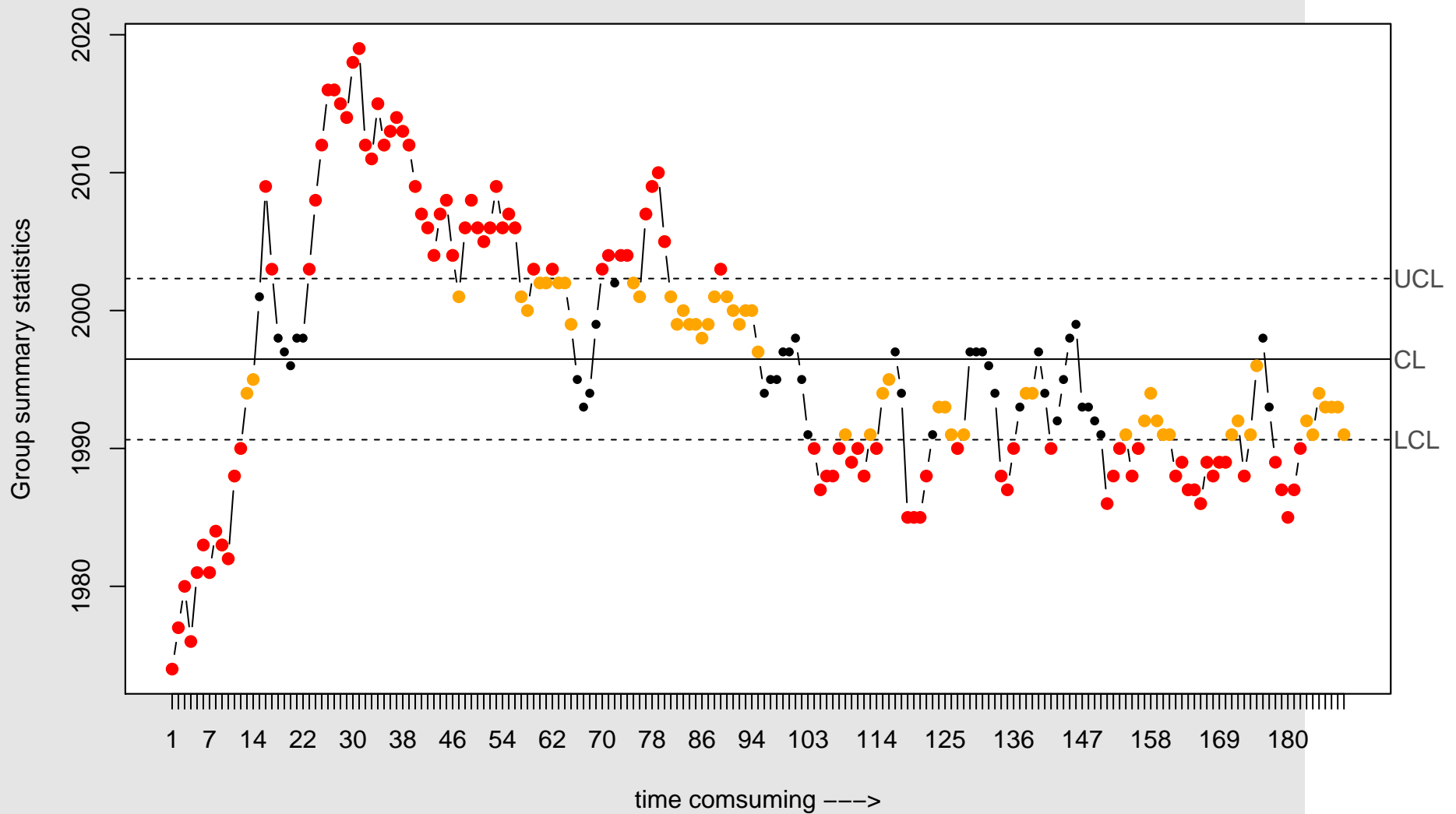
LCL = 1992.666

UCL = 2003.927

Number beyond limits = 101

Number violating runs = 125

290th column point of this product



Number of groups = 189

Center = 1996.476

StdDev = 1.947525

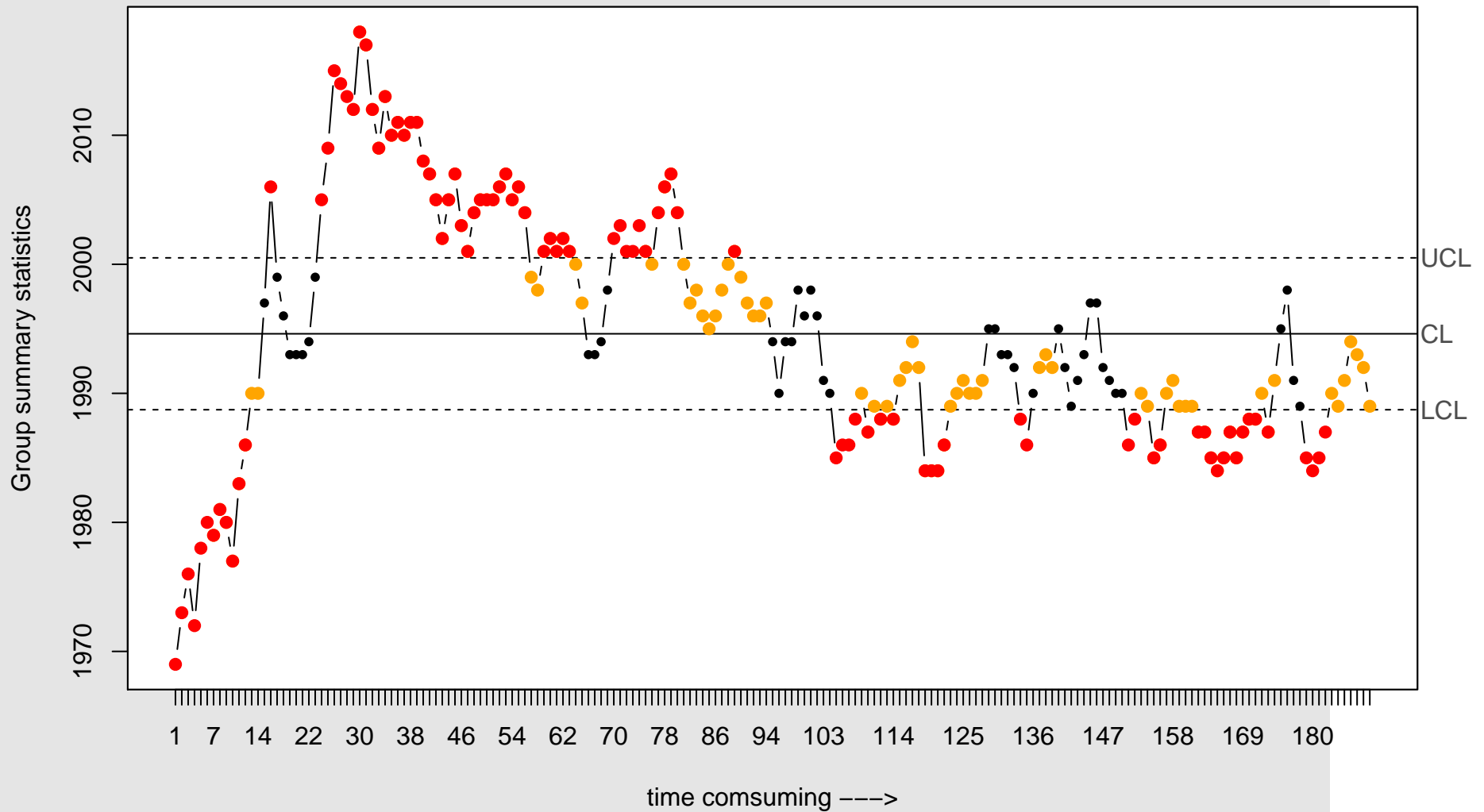
LCL = 1990.634

UCL = 2002.319

Number beyond limits = 96

Number violating runs = 114

291th column point of this product



Number of groups = 189

Center = 1994.614

StdDev = 1.961672

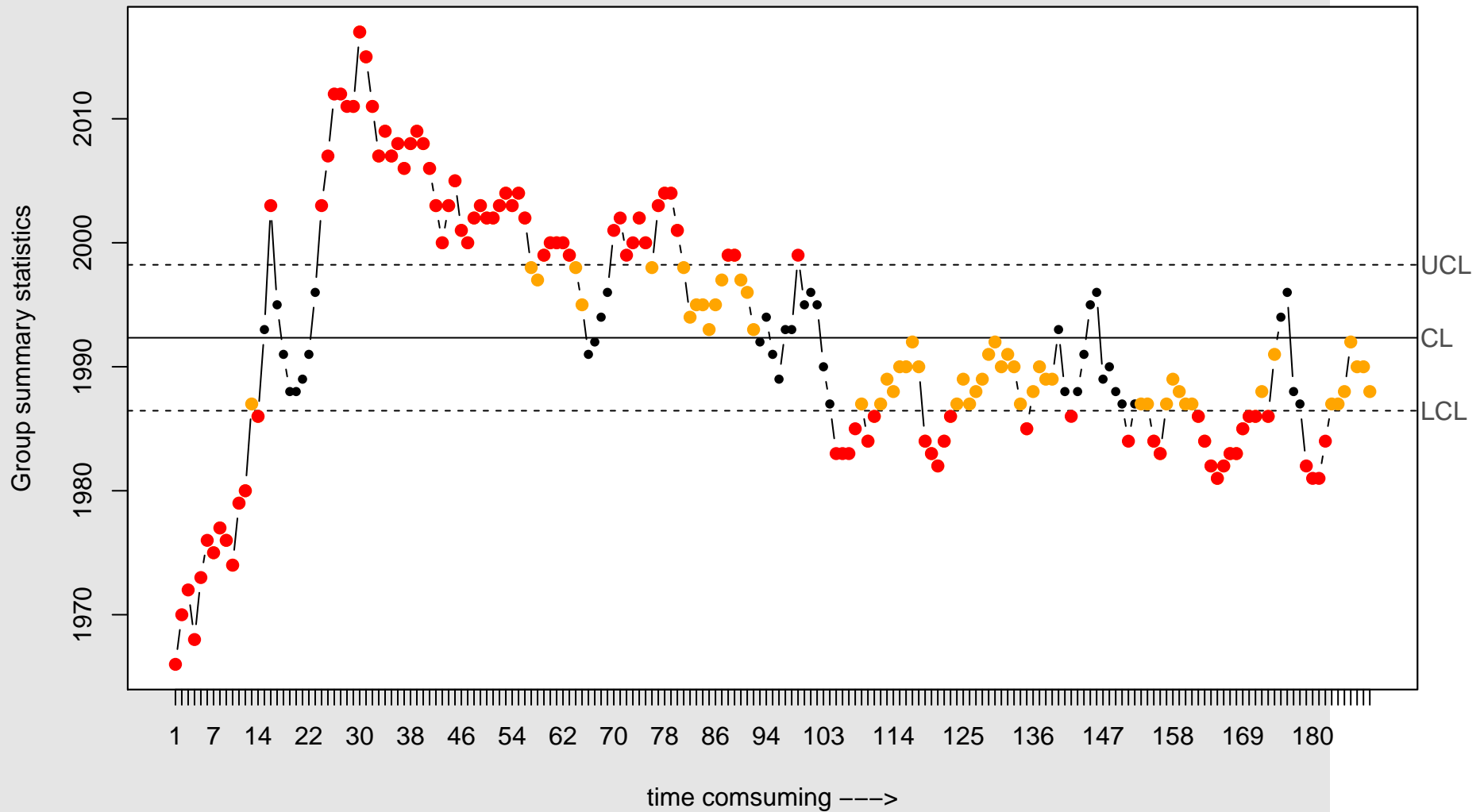
LCL = 1988.729

UCL = 2000.499

Number beyond limits = 94

Number violating runs = 117

292th column point of this product

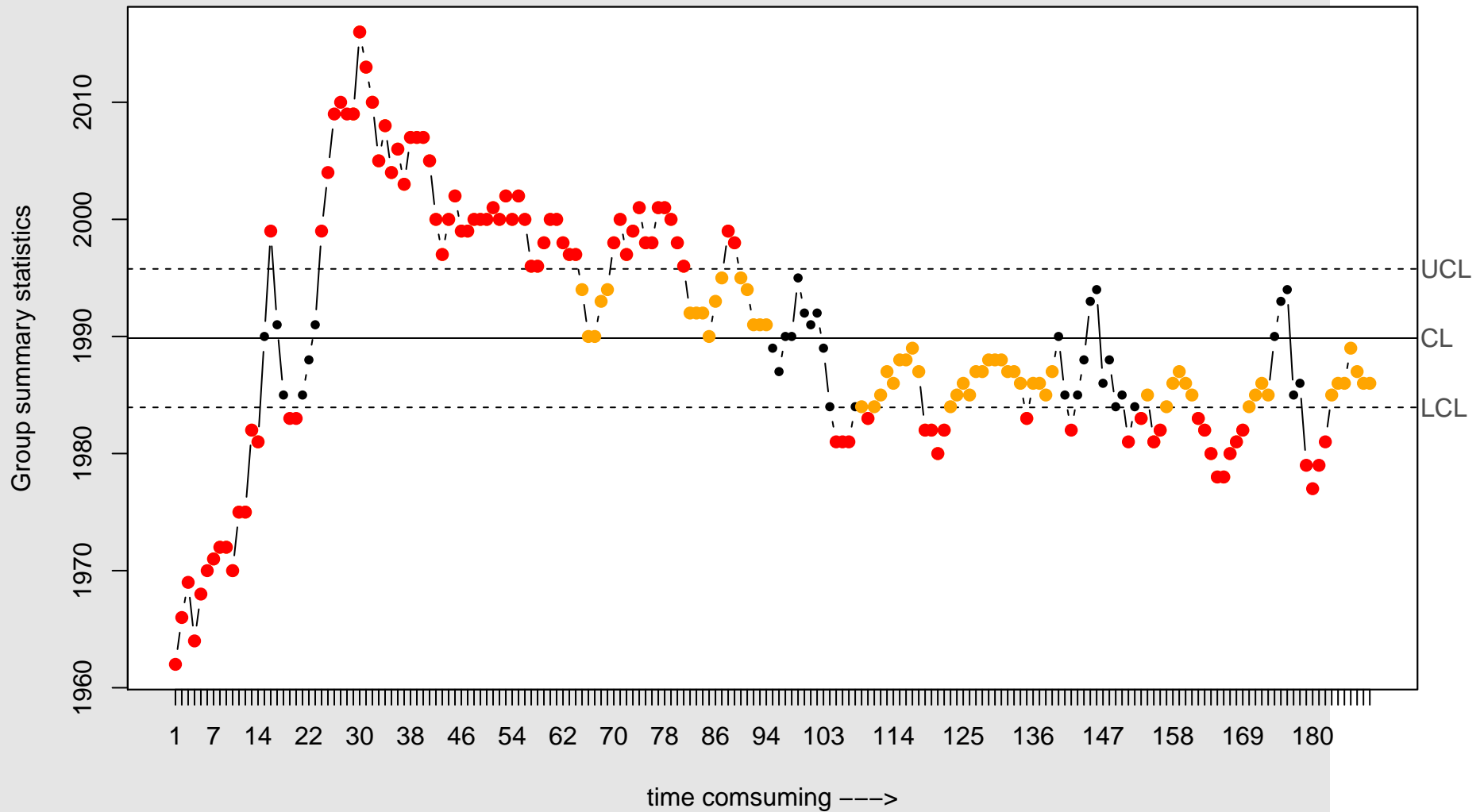


Number of groups = 189
Center = 1992.339
StdDev = 1.961672

LCL = 1986.454
UCL = 1998.224

Number beyond limits = 96
Number violating runs = 124

293th column point of this product

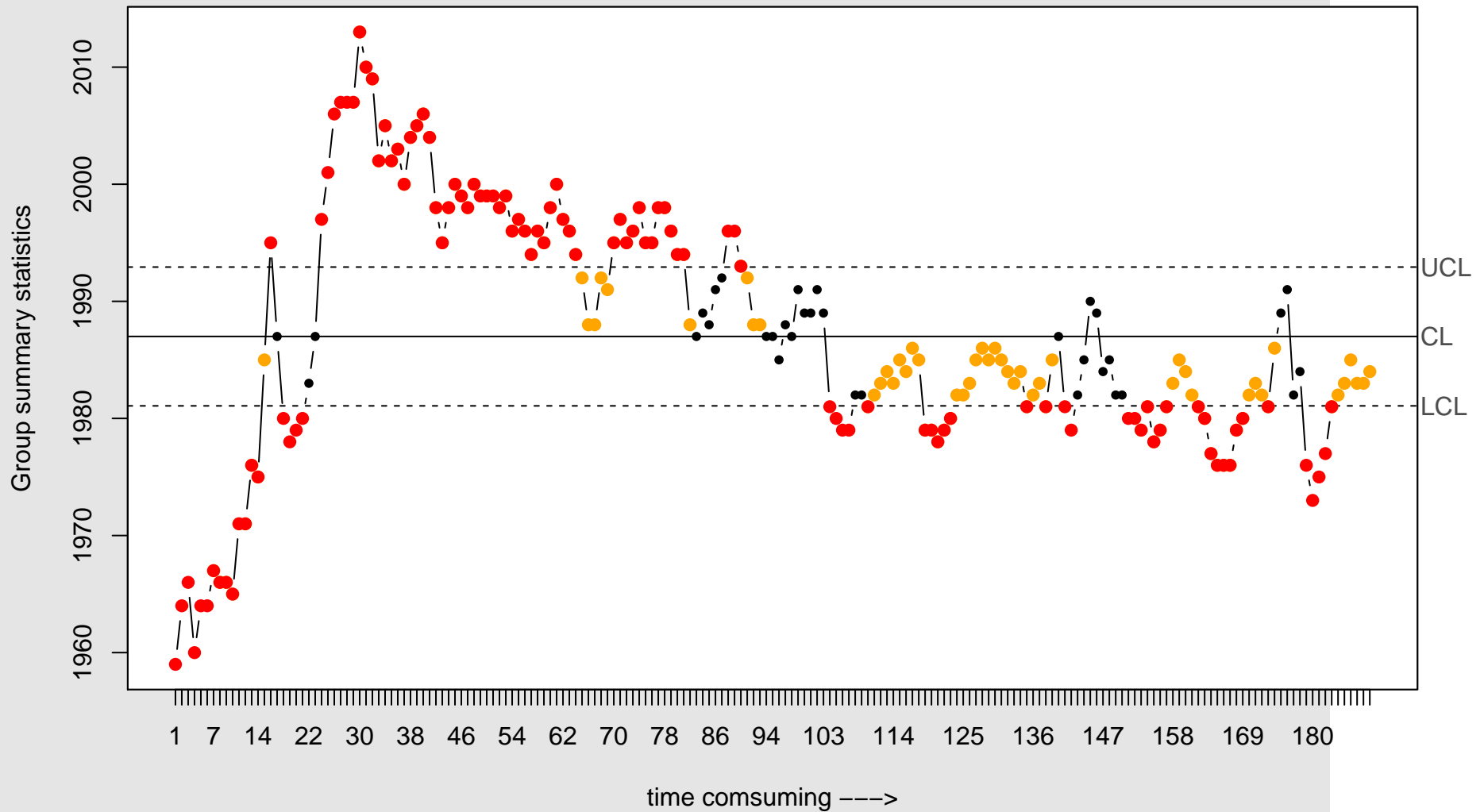


Number of groups = 189
 Center = 1989.857
 StdDev = 1.971103

LCL = 1983.944
 UCL = 1995.77

Number beyond limits = 98
 Number violating runs = 133

294th column point of this product



Number of groups = 189

Center = 1987

StdDev = 1.975819

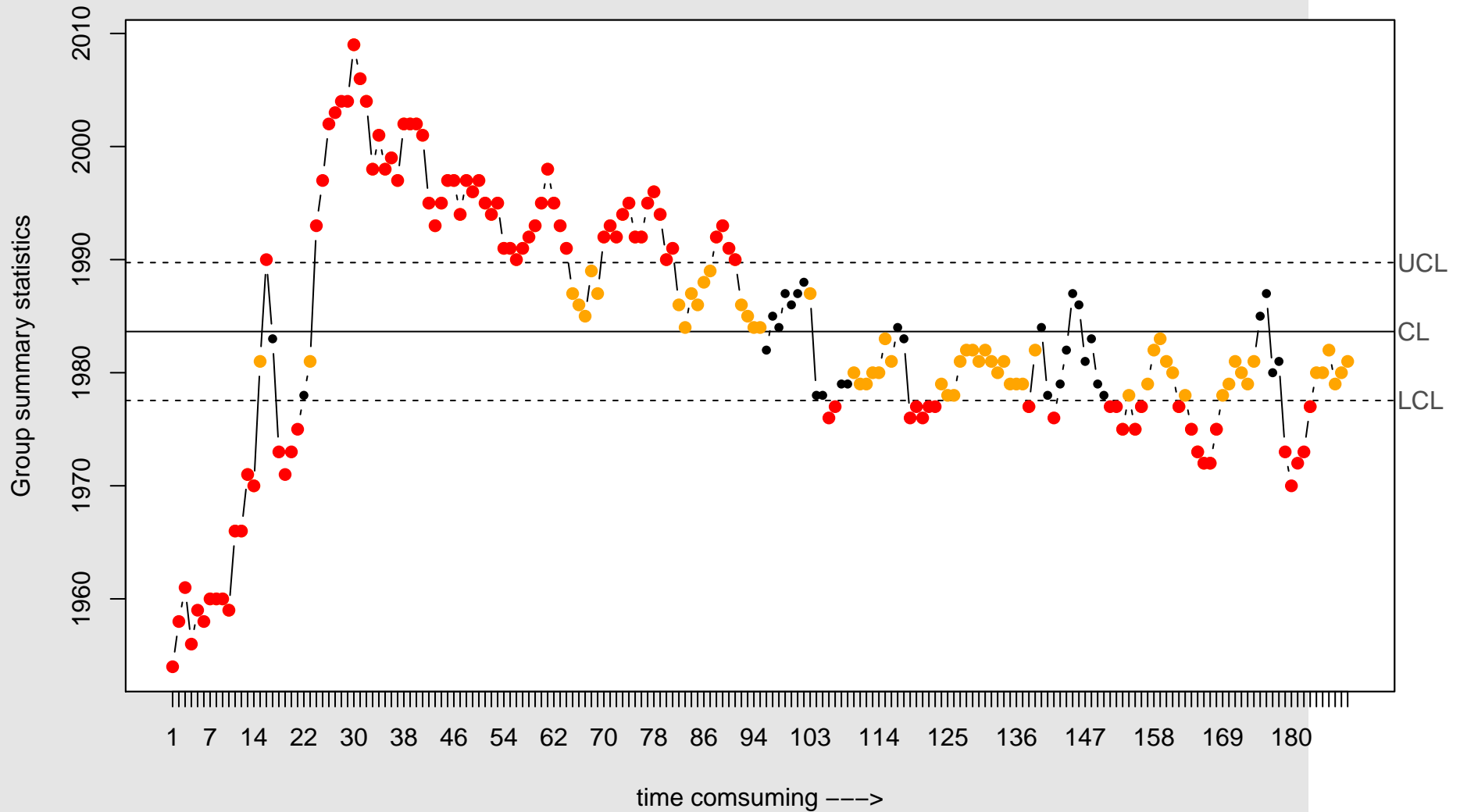
LCL = 1981.073

UCL = 1992.927

Number beyond limits = 110

Number violating runs = 125

295th column point of this product



Number of groups = 189

Center = 1983.64

StdDev = 2.032405

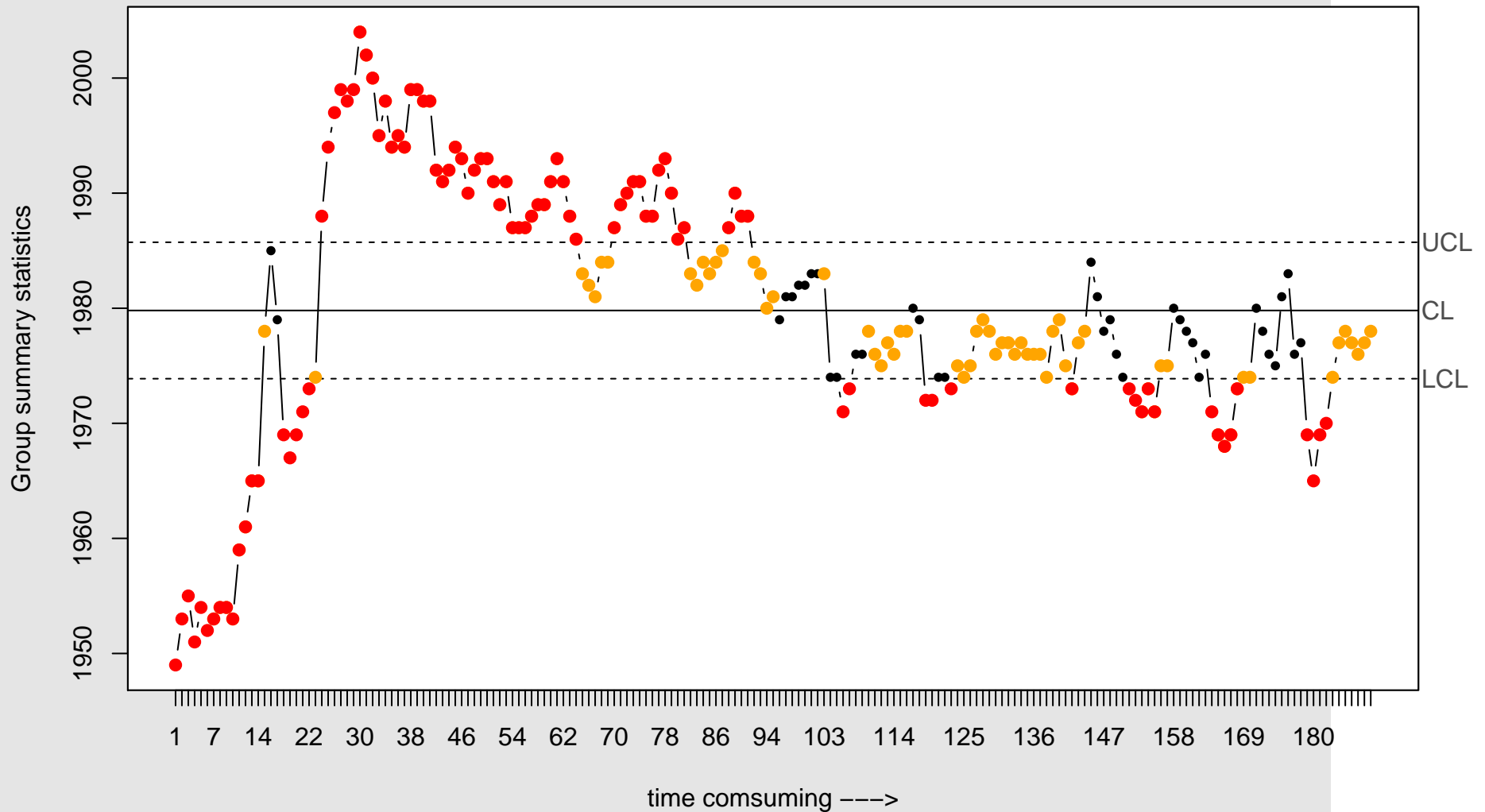
LCL = 1977.543

UCL = 1989.737

Number beyond limits = 101

Number violating runs = 129

296th column point of this product



Number of groups = 189

Center = 1979.804

StdDev = 1.975819

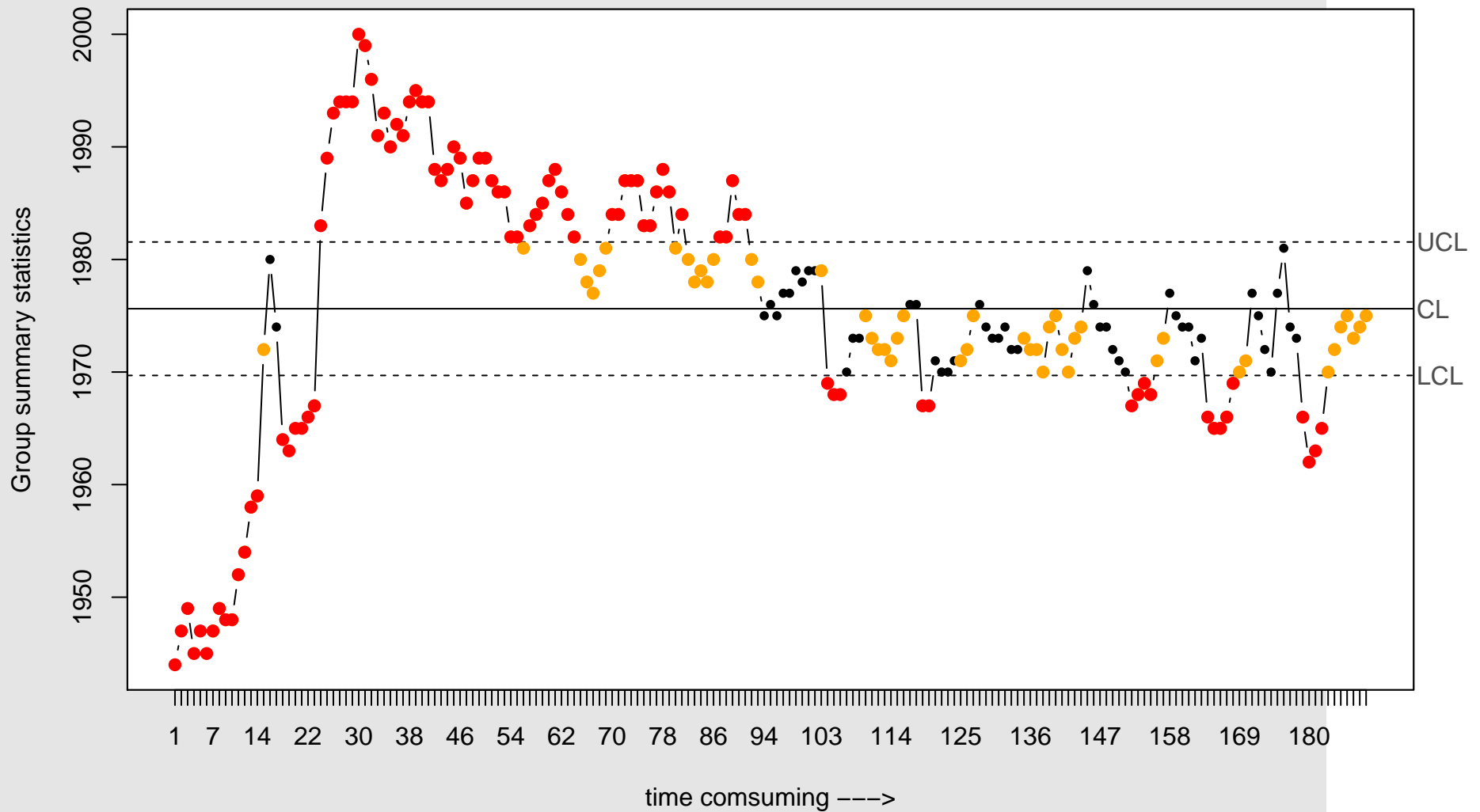
LCL = 1973.877

UCL = 1985.732

Number beyond limits = 96

Number violating runs = 123

297th column point of this product



Number of groups = 189

Center = 1975.624

StdDev = 1.975819

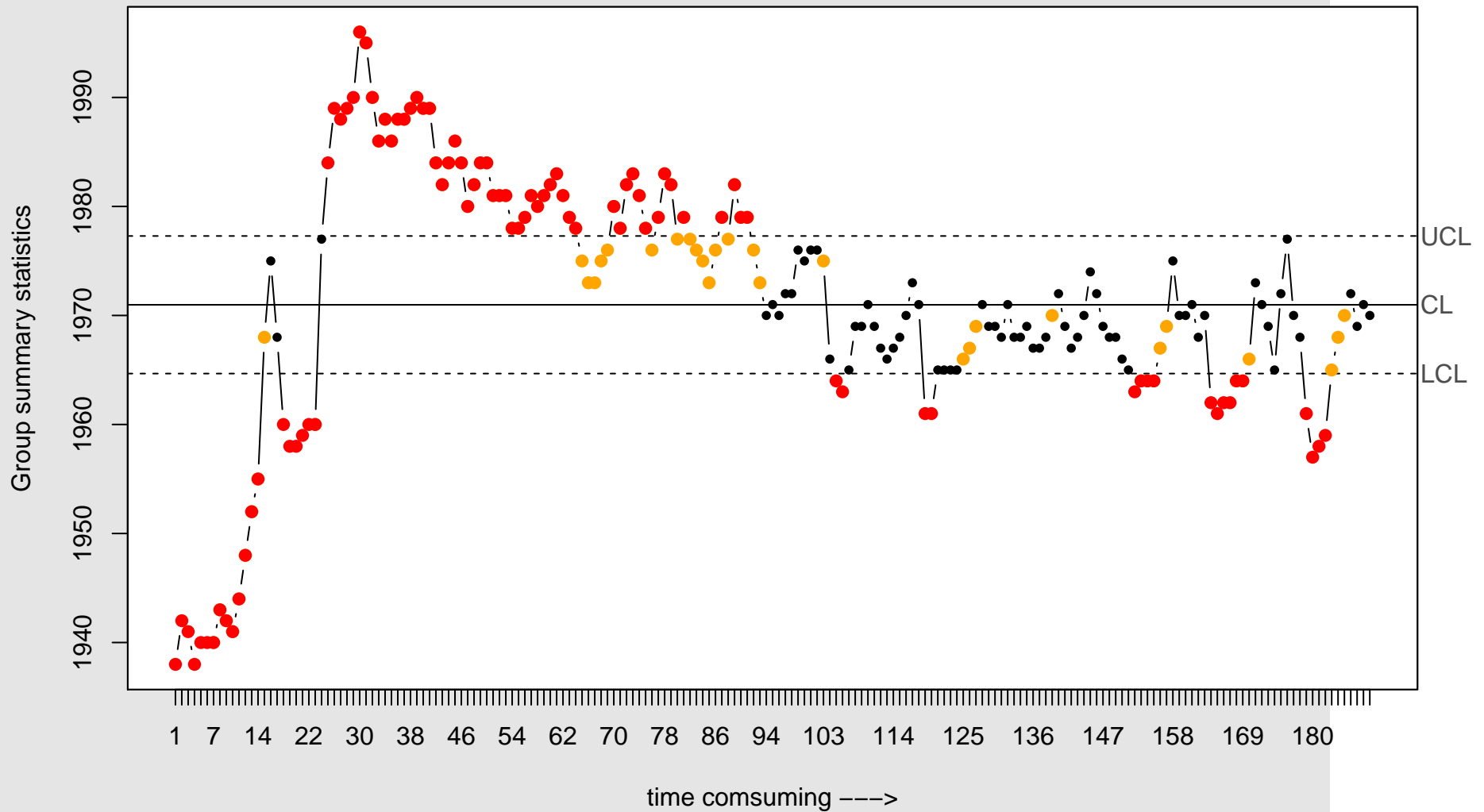
LCL = 1969.697

UCL = 1981.552

Number beyond limits = 94

Number violating runs = 113

298th column point of this product



Number of groups = 189

Center = 1970.979

StdDev = 2.103139

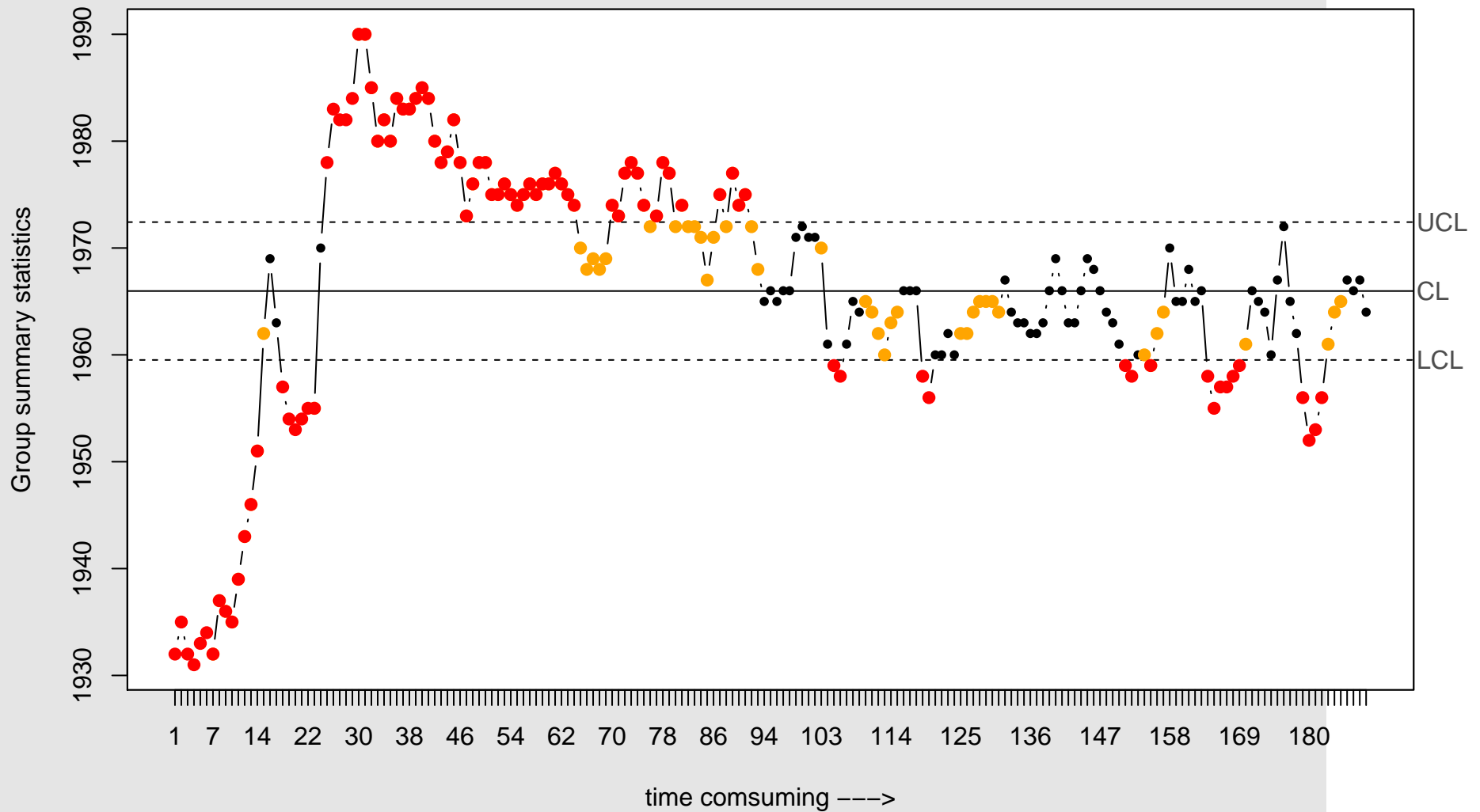
LCL = 1964.669

UCL = 1977.288

Number beyond limits = 92

Number violating runs = 90

299th column point of this product



Number of groups = 189

Center = 1965.974

StdDev = 2.150294

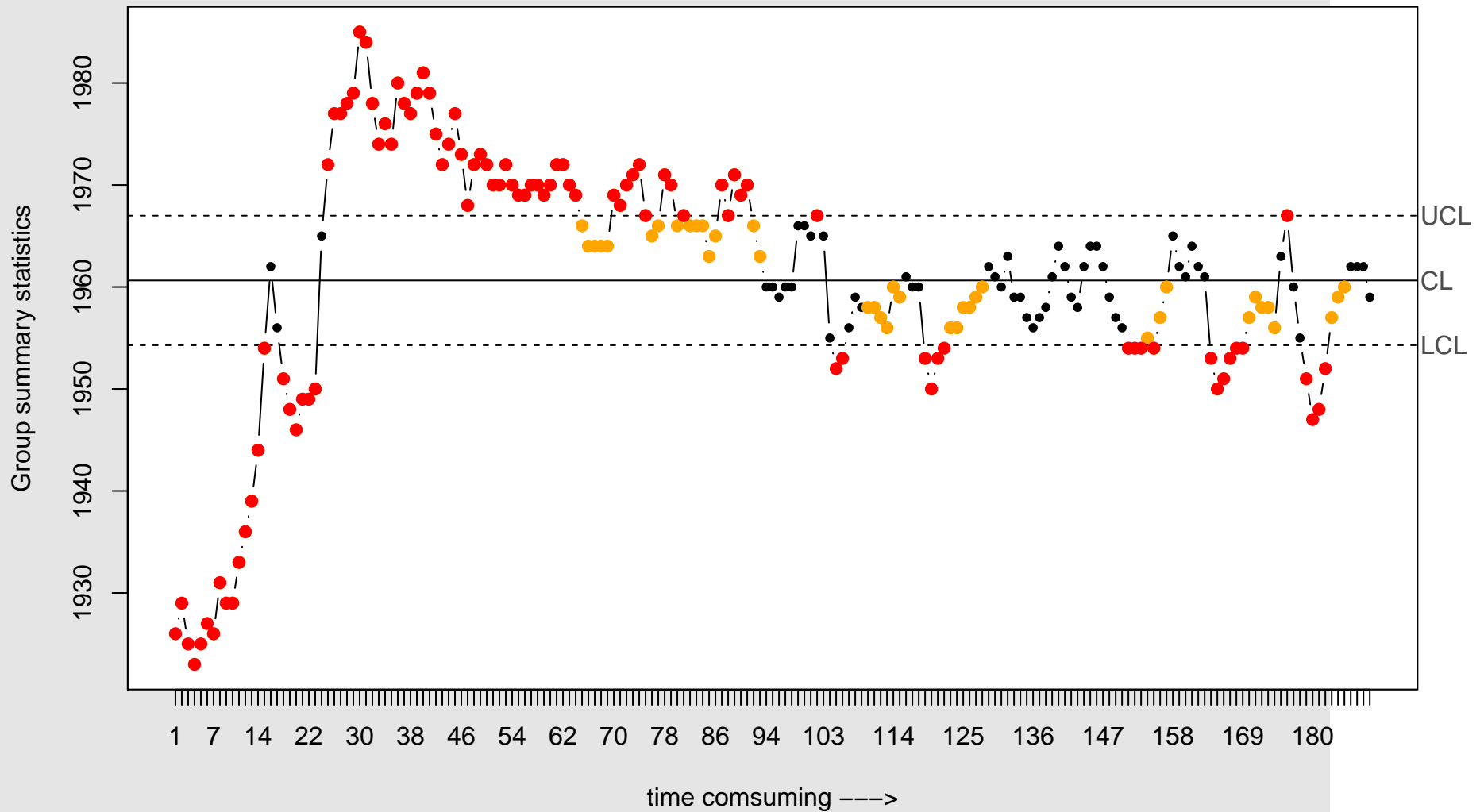
LCL = 1959.523

UCL = 1972.424

Number beyond limits = 91

Number violating runs = 96

300th column point of this product



Number of groups = 189

Center = 1960.64

StdDev = 2.117285

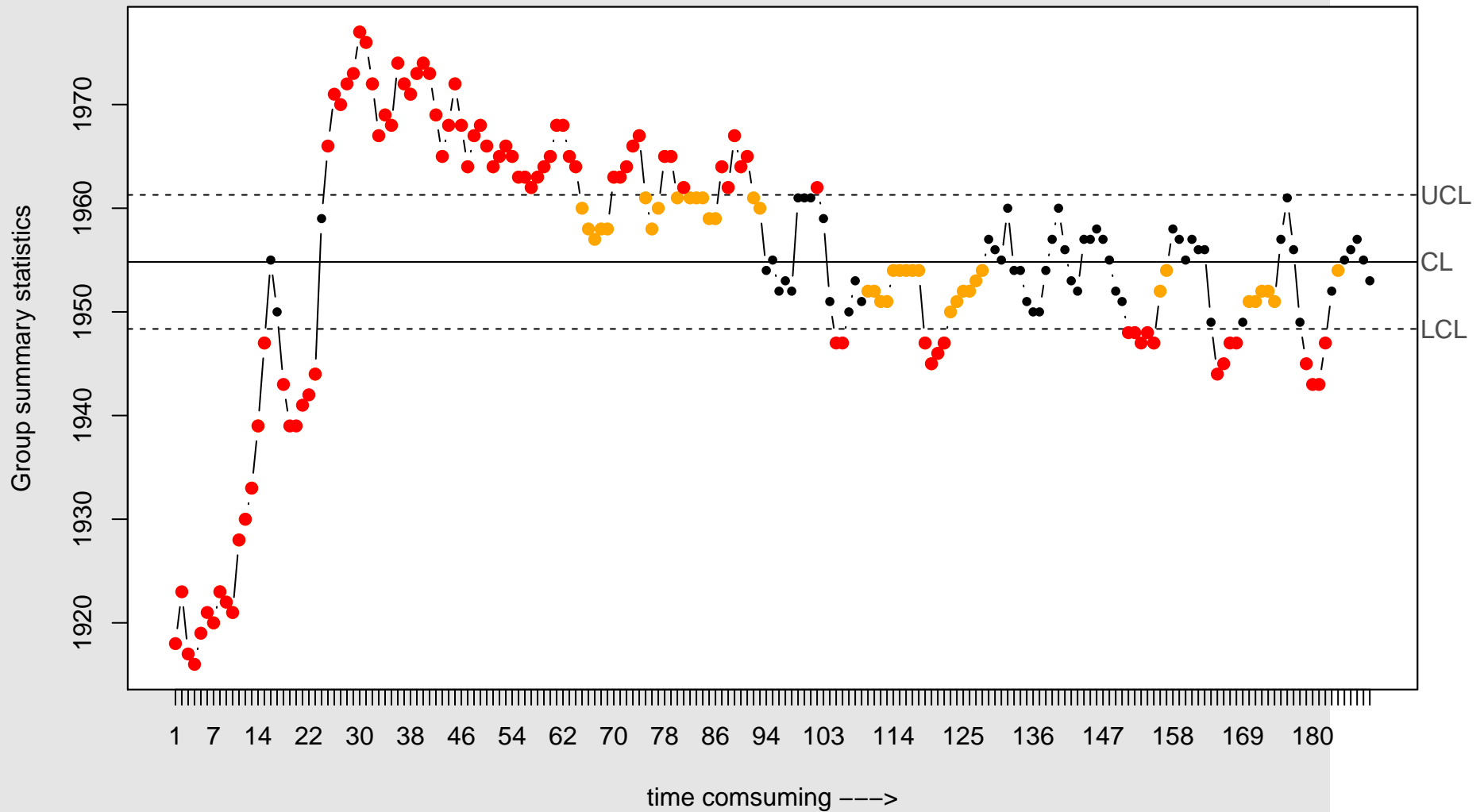
LCL = 1954.288

UCL = 1966.992

Number beyond limits = 97

Number violating runs = 98

301th column point of this product



Number of groups = 189

Center = 1954.82

StdDev = 2.15501

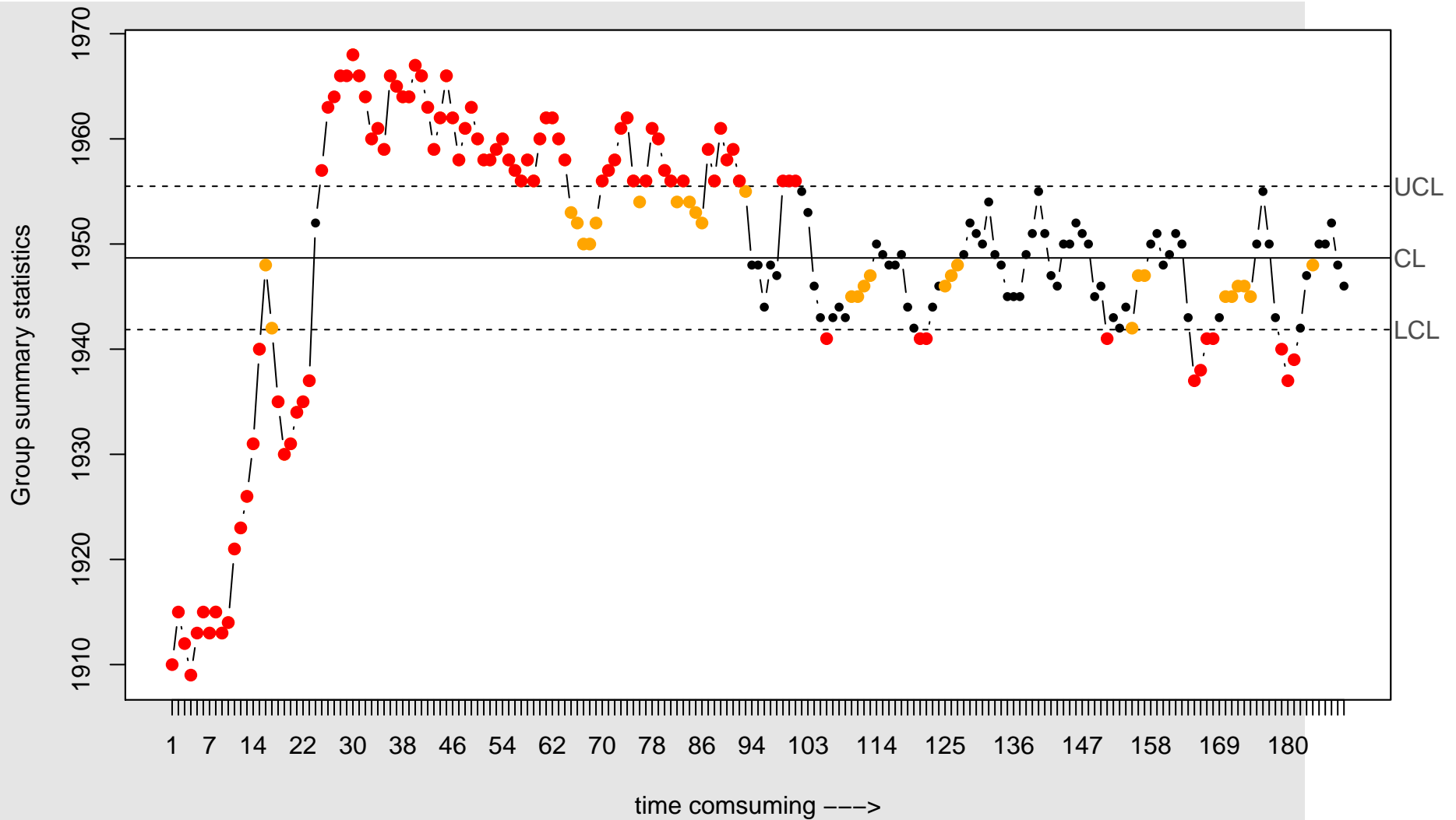
LCL = 1948.355

UCL = 1961.285

Number beyond limits = 94

Number violating runs = 102

302th column point of this product

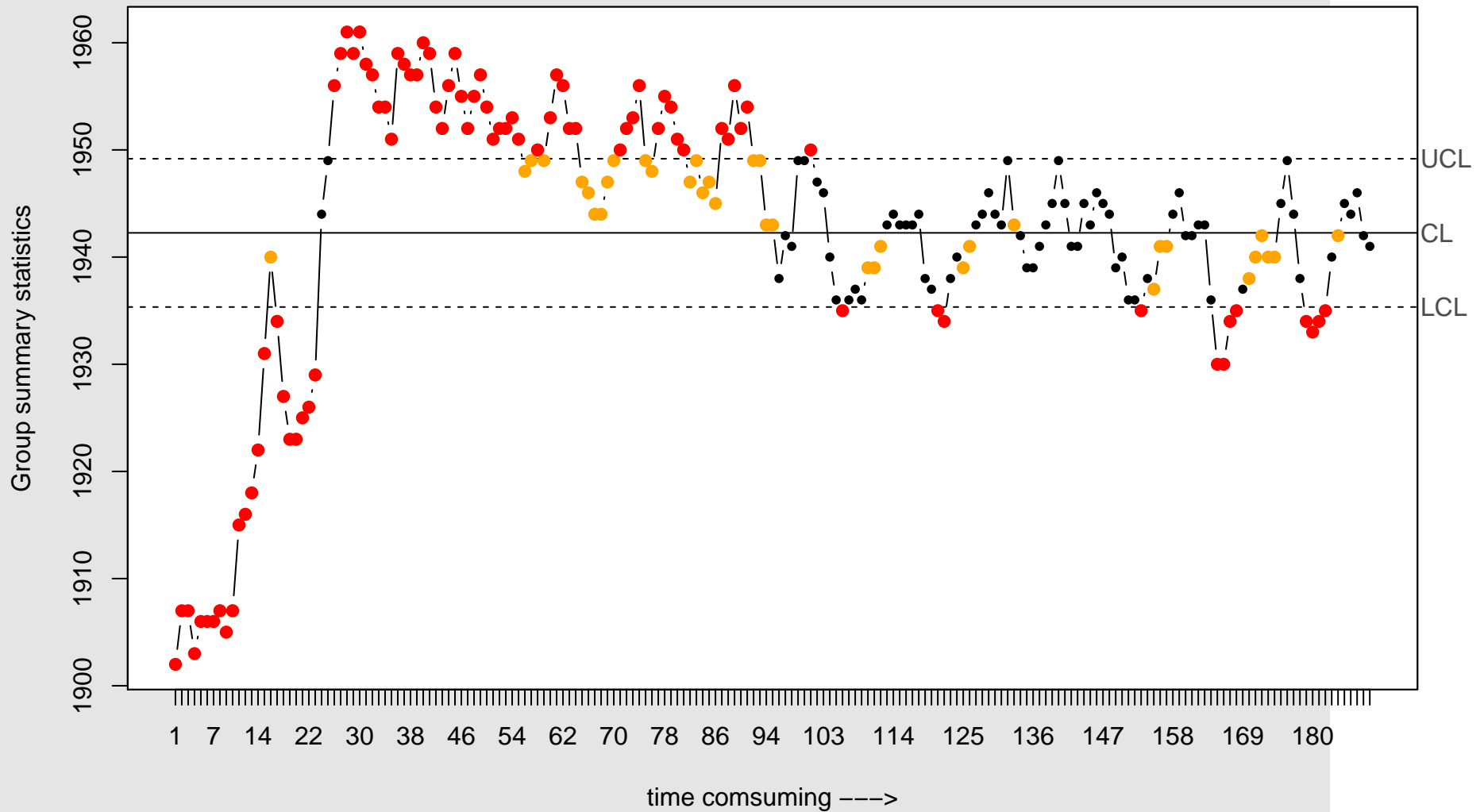


Number of groups = 189
 Center = 1948.677
 StdDev = 2.272899

LCL = 1941.859
 UCL = 1955.496

Number beyond limits = 93
 Number violating runs = 97

303th column point of this product

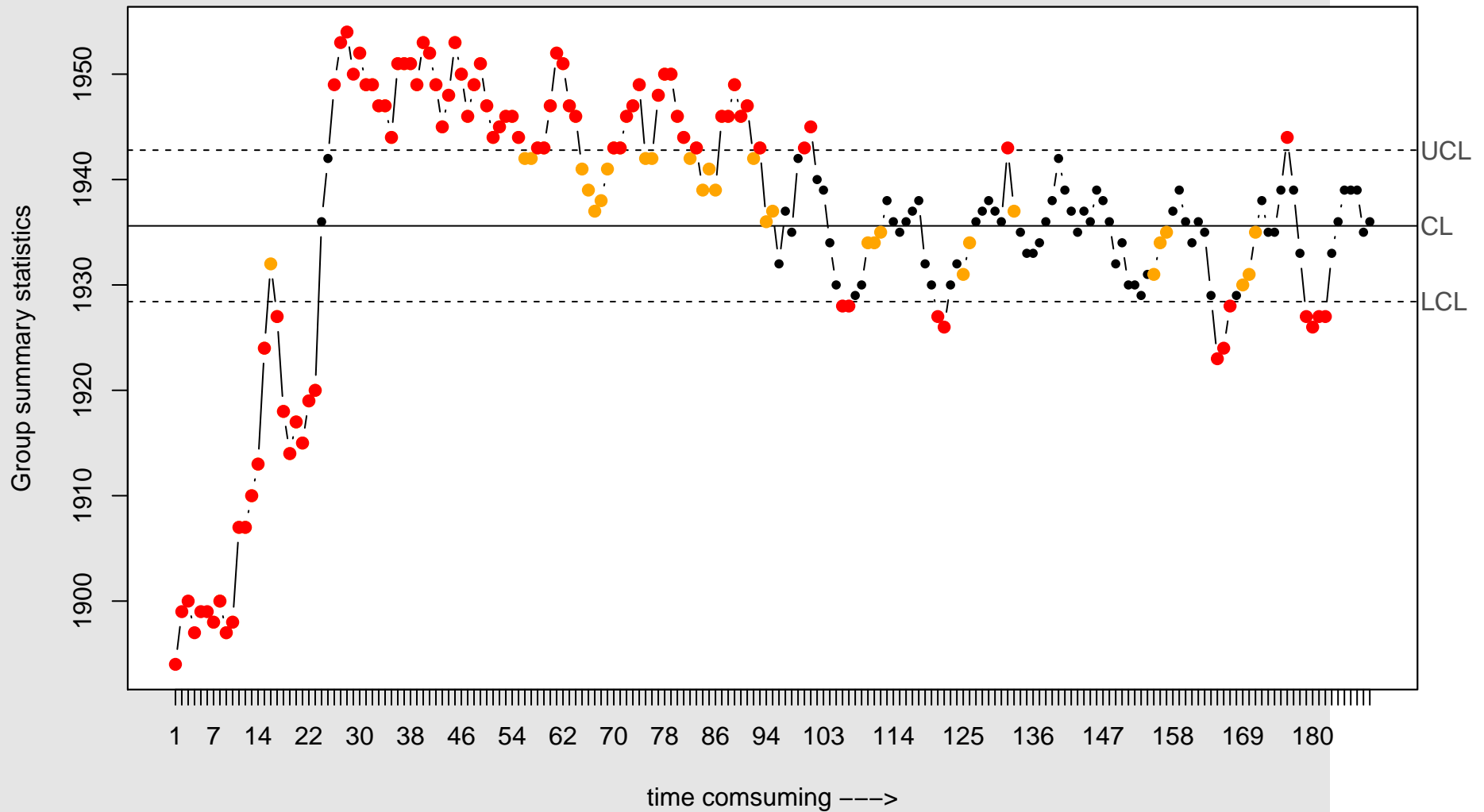


Number of groups = 189
 Center = 1942.259
 StdDev = 2.305908

LCL = 1935.342
 UCL = 1949.177

Number beyond limits = 85
 Number violating runs = 98

304th column point of this product

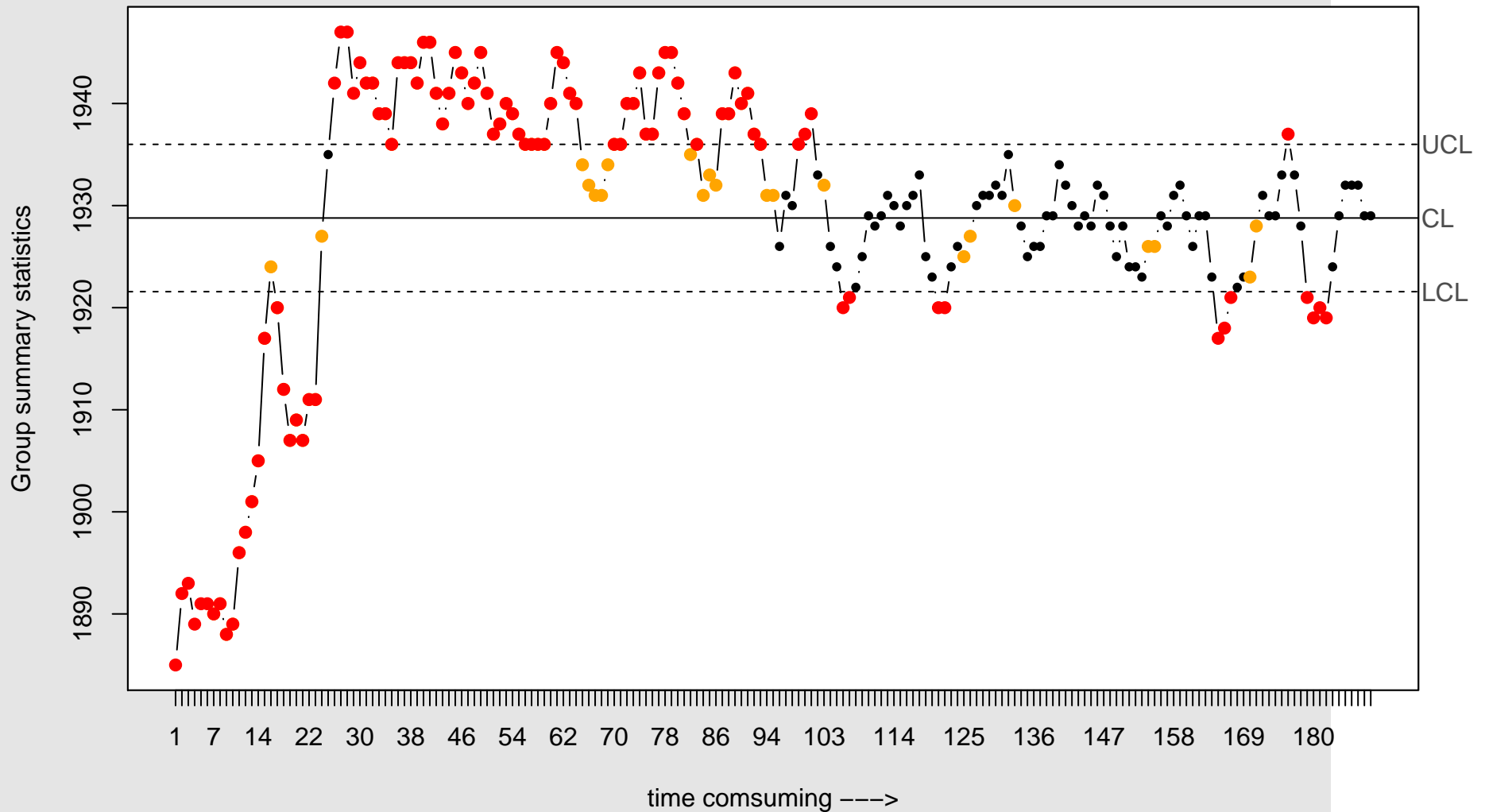


Number of groups = 189
Center = 1935.603
StdDev = 2.395503

LCL = 1928.417
UCL = 1942.79

Number beyond limits = 91
Number violating runs = 95

305th column point of this product



Number of groups = 189

Center = 1928.783

StdDev = 2.404934

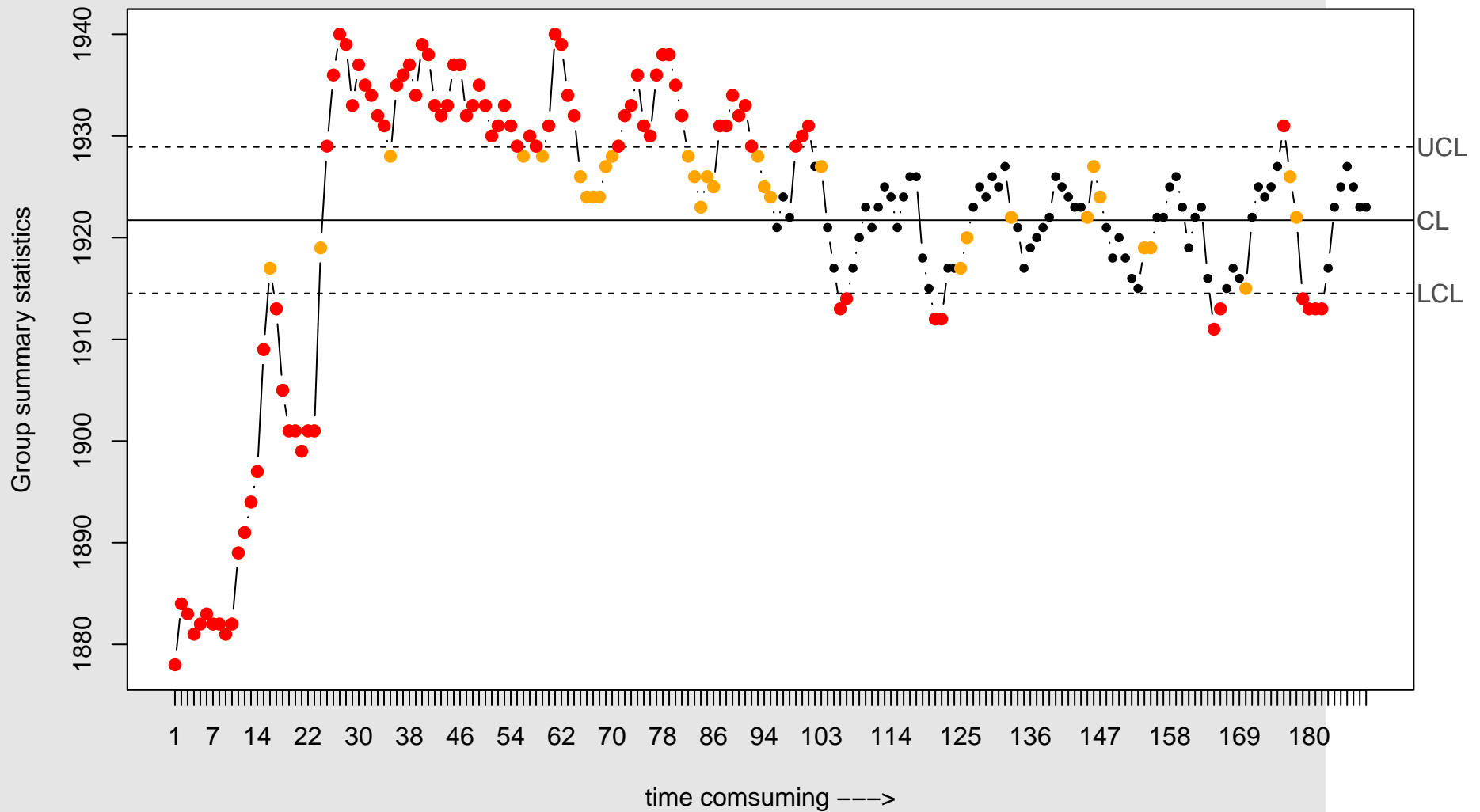
LCL = 1921.568

UCL = 1935.998

Number beyond limits = 96

Number violating runs = 91

306th column point of this product



Number of groups = 189

Center = 1921.72

StdDev = 2.400219

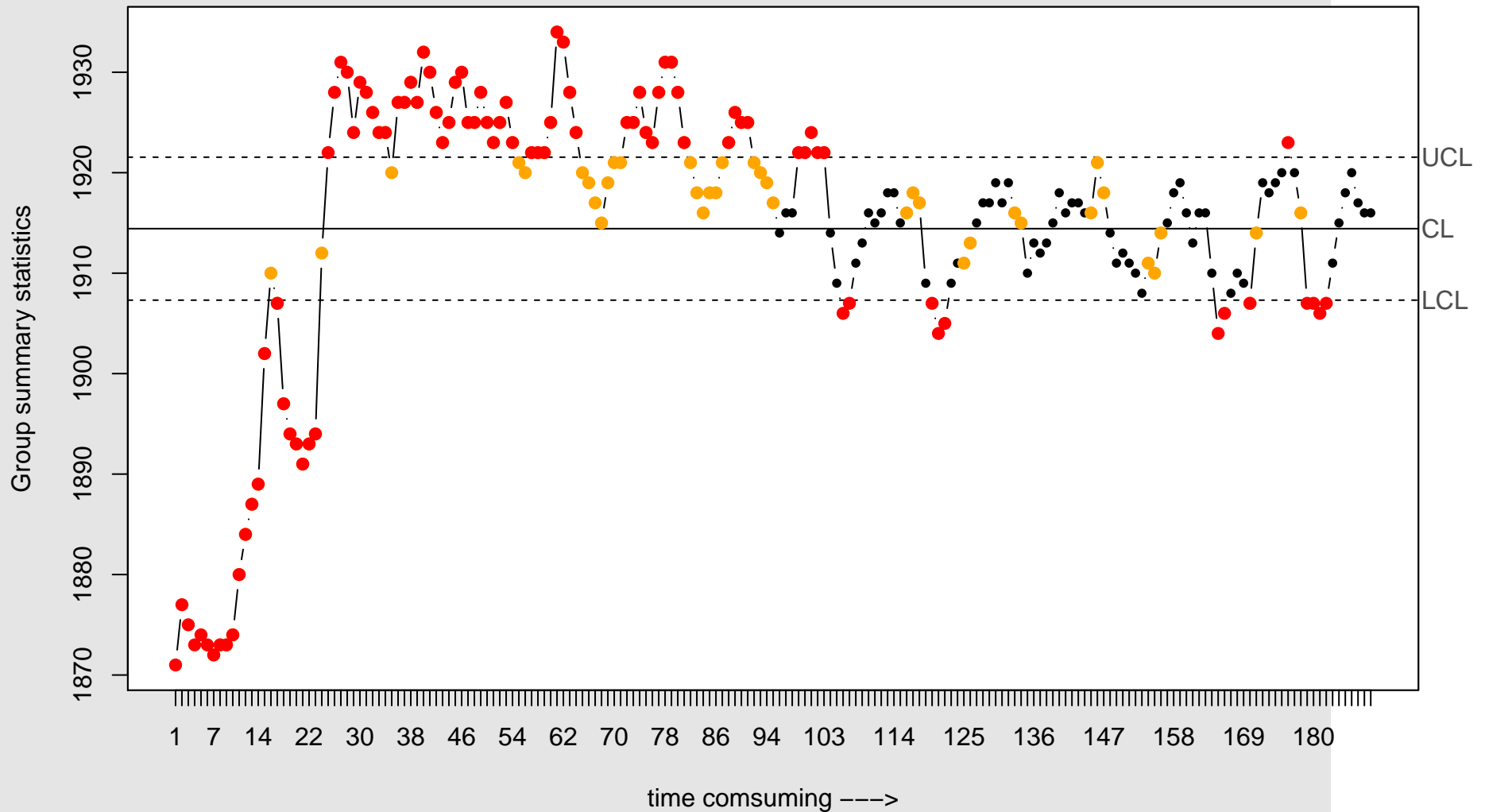
LCL = 1914.519

UCL = 1928.92

Number beyond limits = 90

Number violating runs = 95

307th column point of this product



Number of groups = 189

Center = 1914.429

StdDev = 2.371925

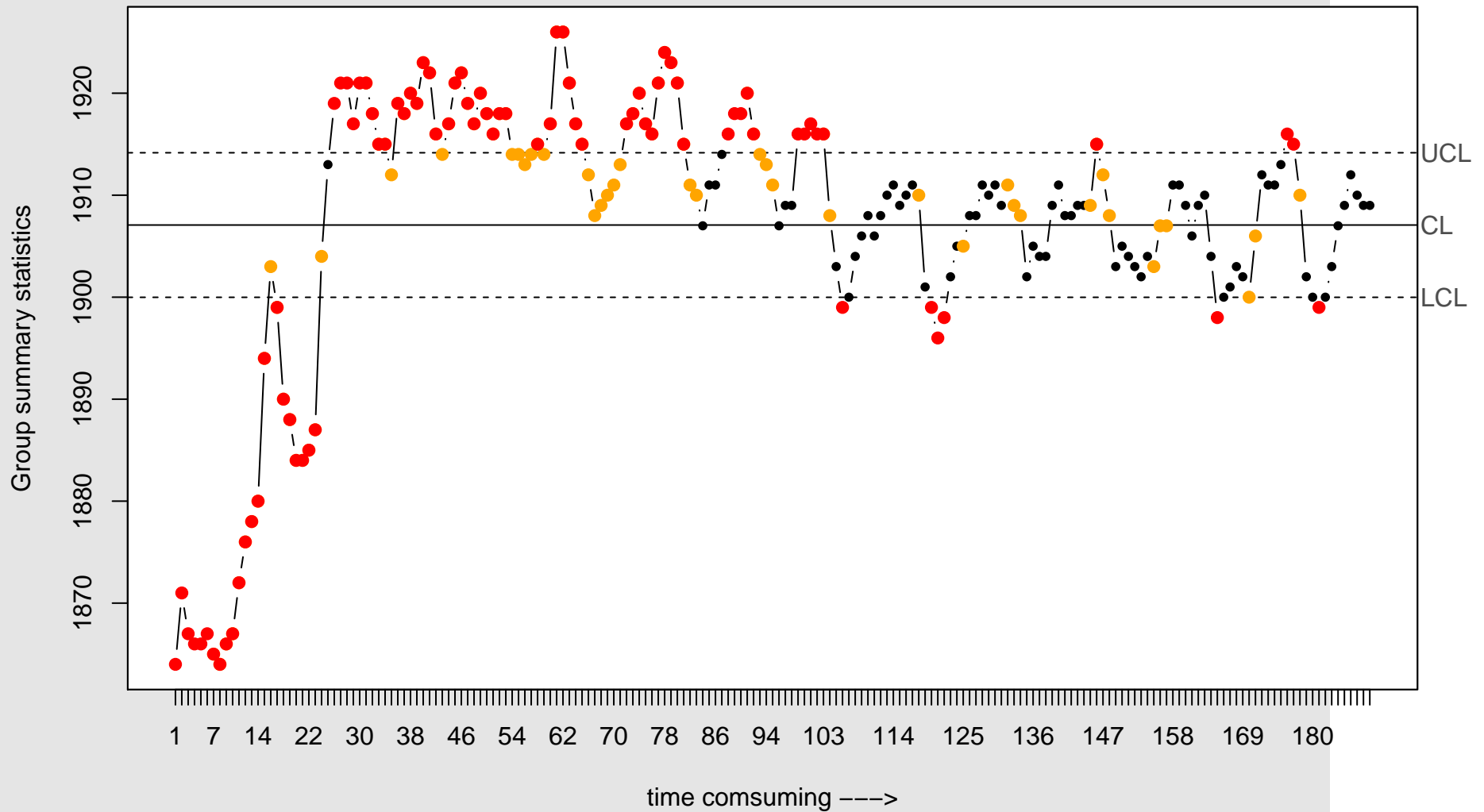
LCL = 1907.313

UCL = 1921.544

Number beyond limits = 91

Number violating runs = 100

308th column point of this product



Number of groups = 189

Center = 1907.074

StdDev = 2.362494

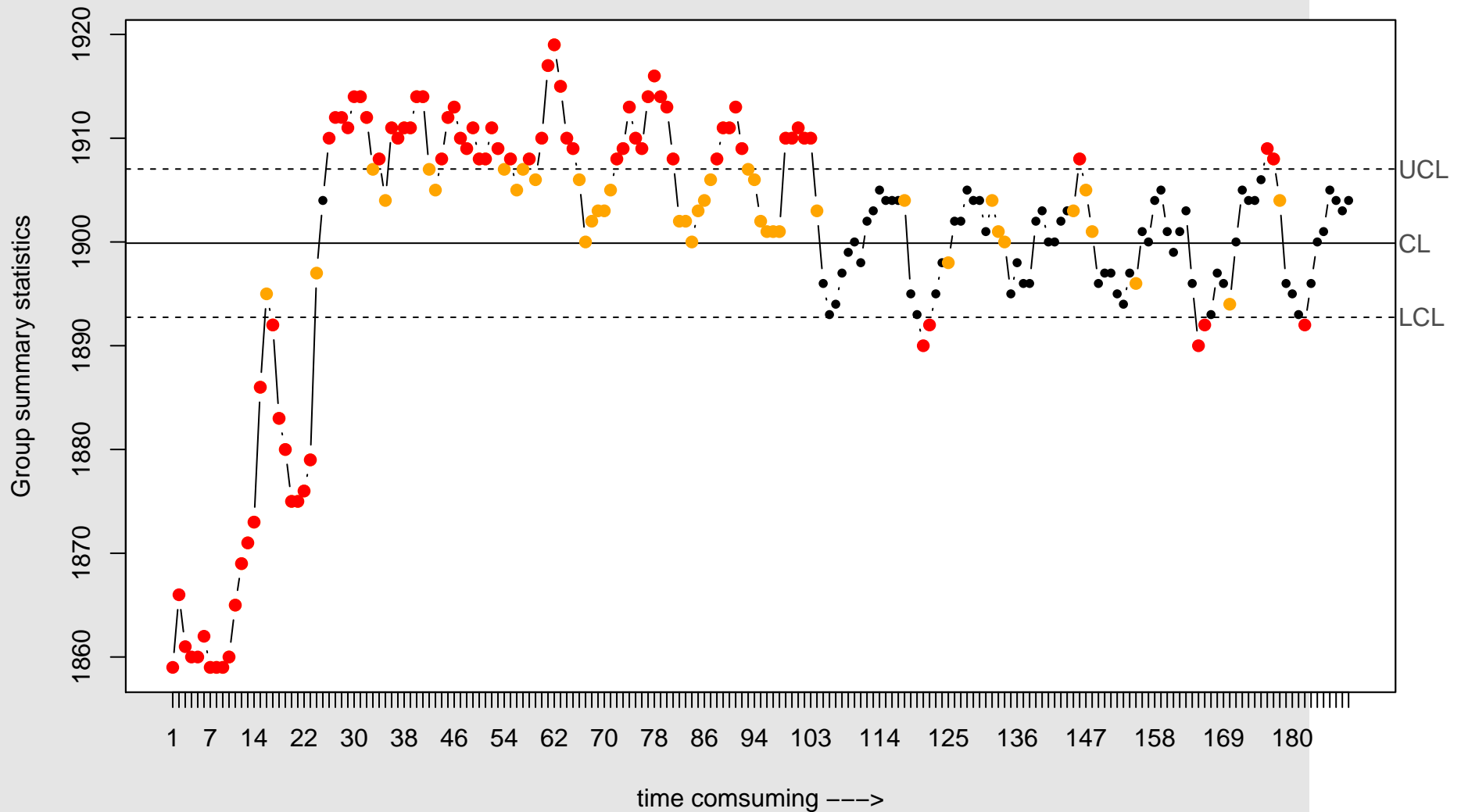
LCL = 1899.987

UCL = 1914.162

Number beyond limits = 84

Number violating runs = 93

309th column point of this product



Number of groups = 189

Center = 1899.884

StdDev = 2.381357

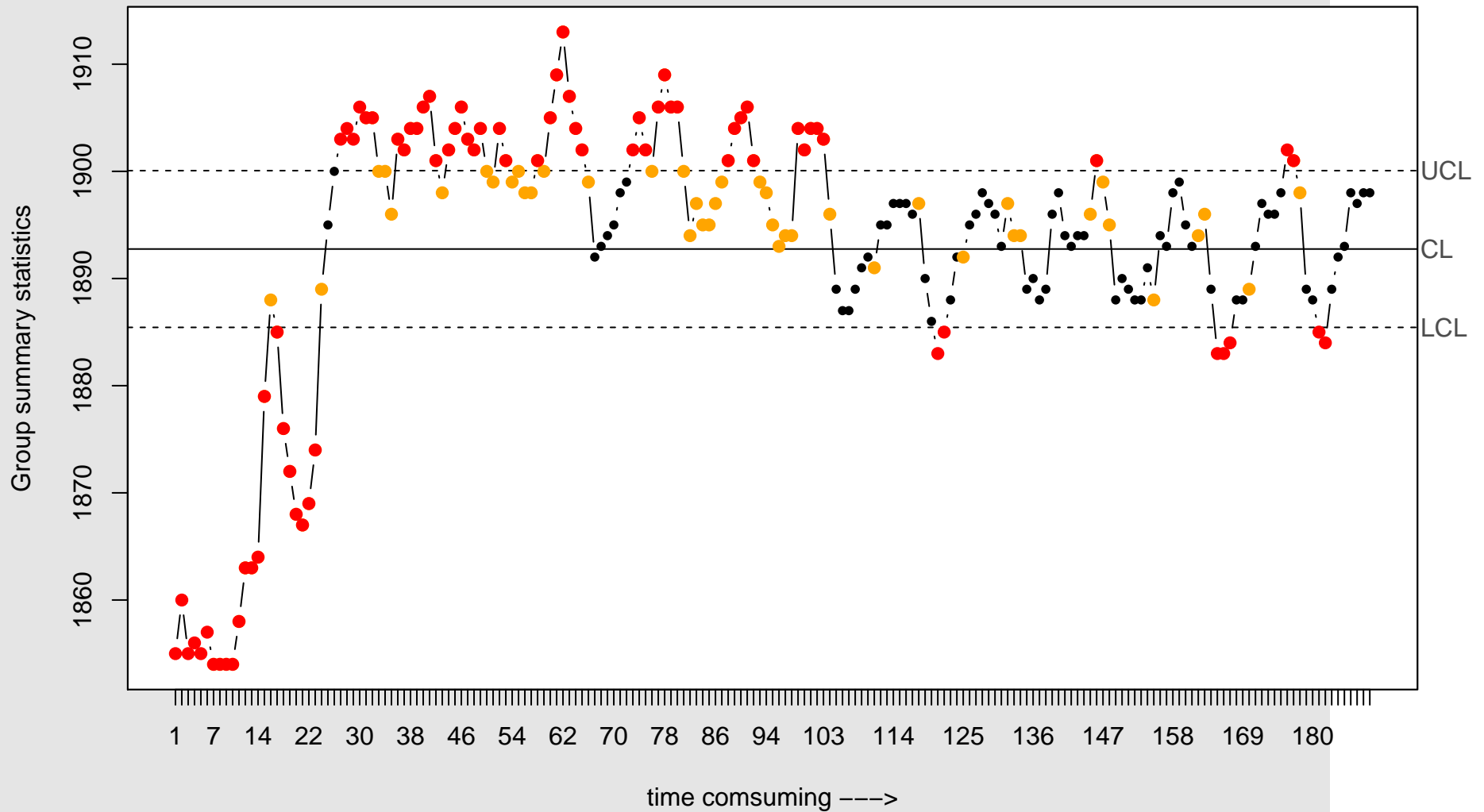
LCL = 1892.74

UCL = 1907.028

Number beyond limits = 82

Number violating runs = 105

310th column point of this product



Number of groups = 189

Center = 1892.751

StdDev = 2.437943

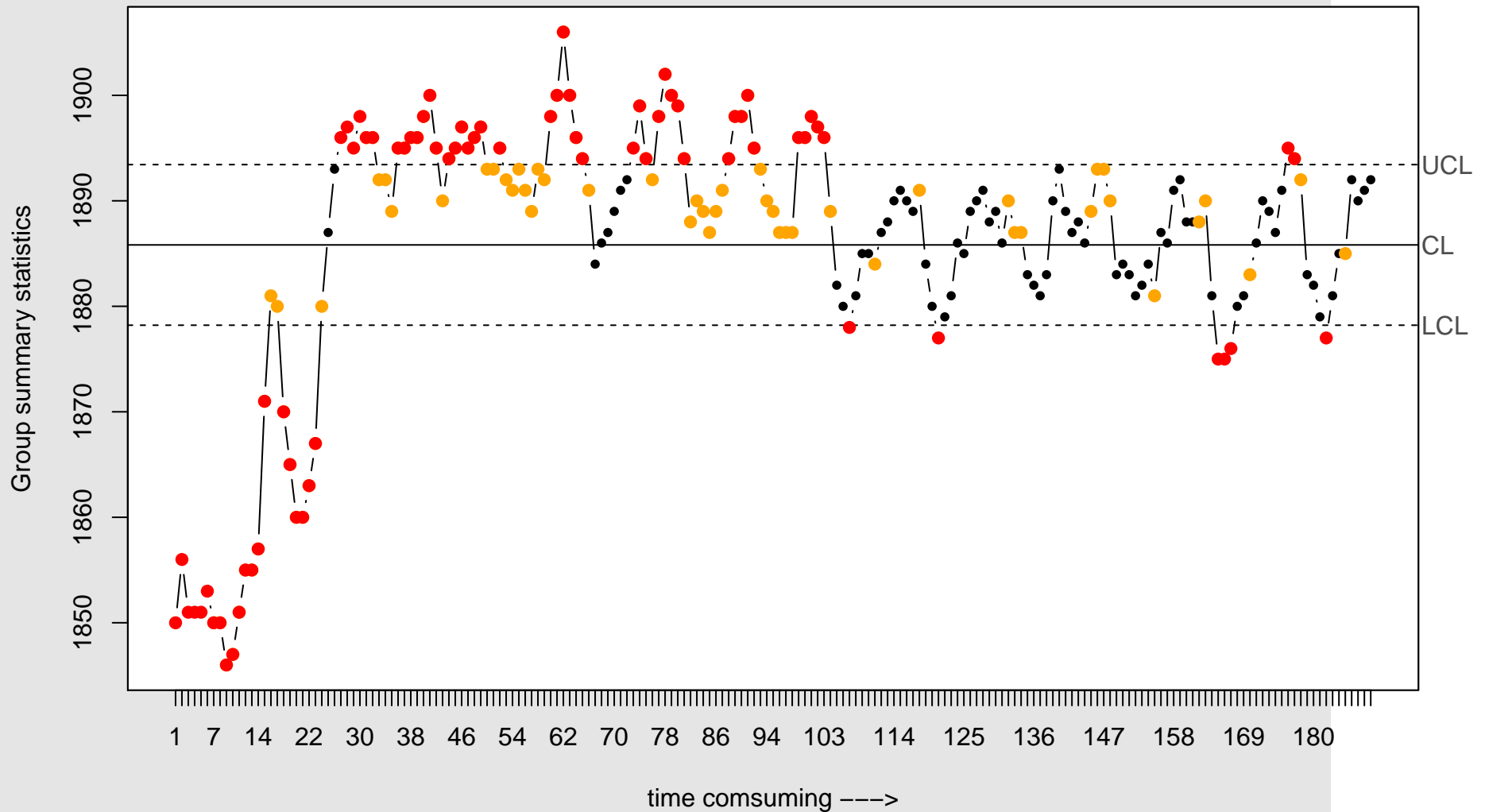
LCL = 1885.437

UCL = 1900.065

Number beyond limits = 77

Number violating runs = 101

311th column point of this product



Number of groups = 189

Center = 1885.82

StdDev = 2.53697

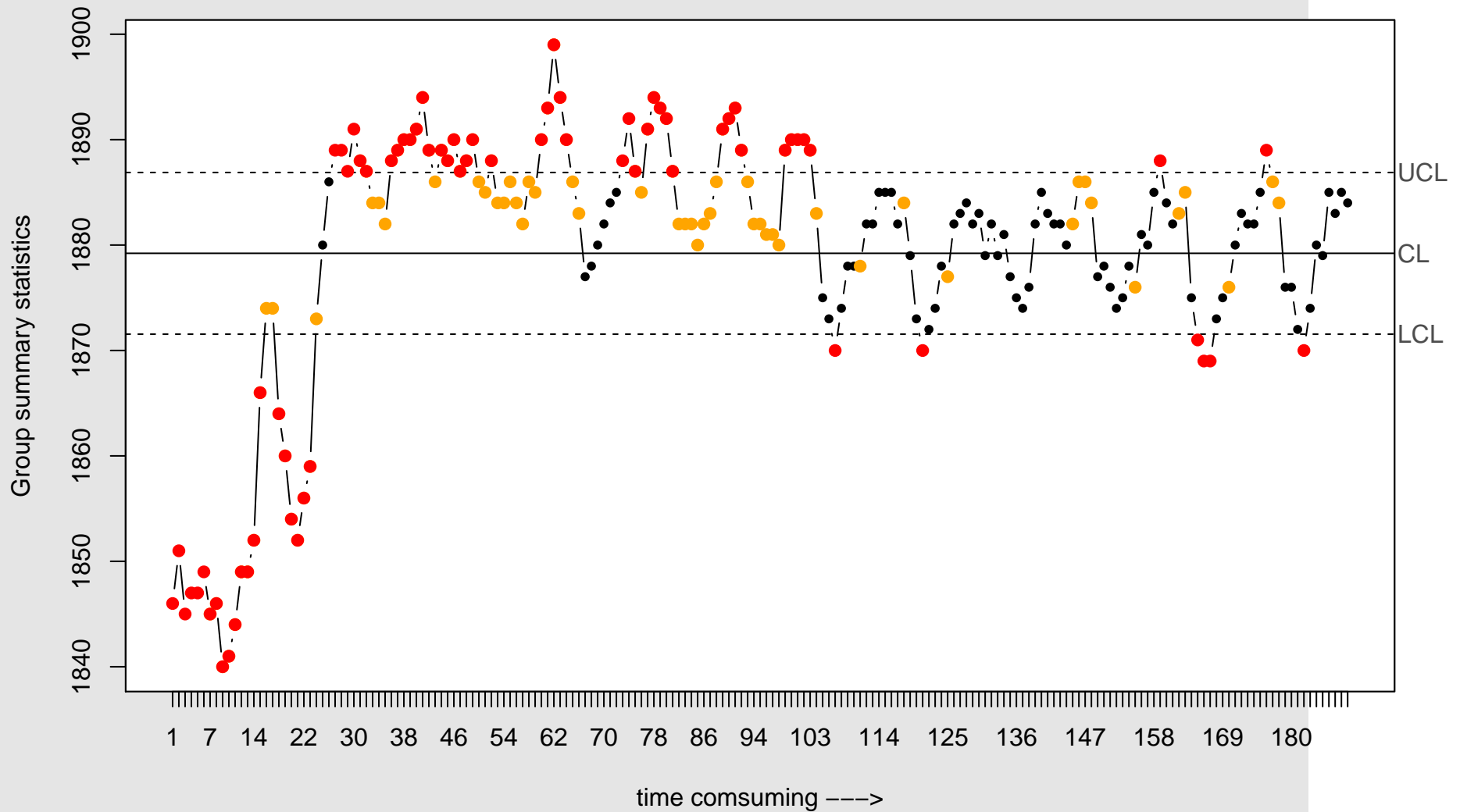
LCL = 1878.209

UCL = 1893.431

Number beyond limits = 73

Number violating runs = 101

312th column point of this product



Number of groups = 189

Center = 1879.217

StdDev = 2.555832

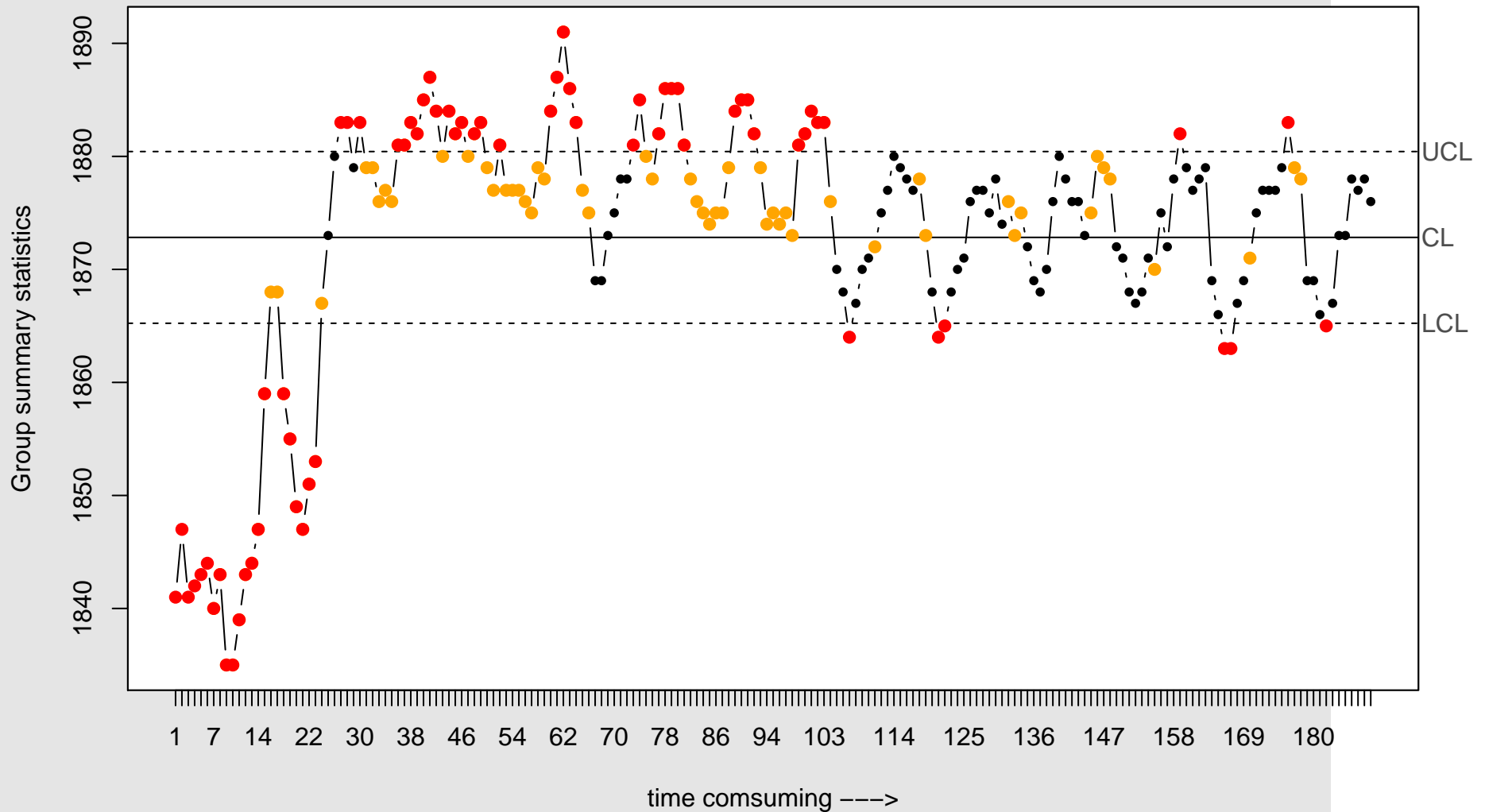
LCL = 1871.549

UCL = 1886.884

Number beyond limits = 71

Number violating runs = 97

313th column point of this product



Number of groups = 189

Center = 1872.831

StdDev = 2.532254

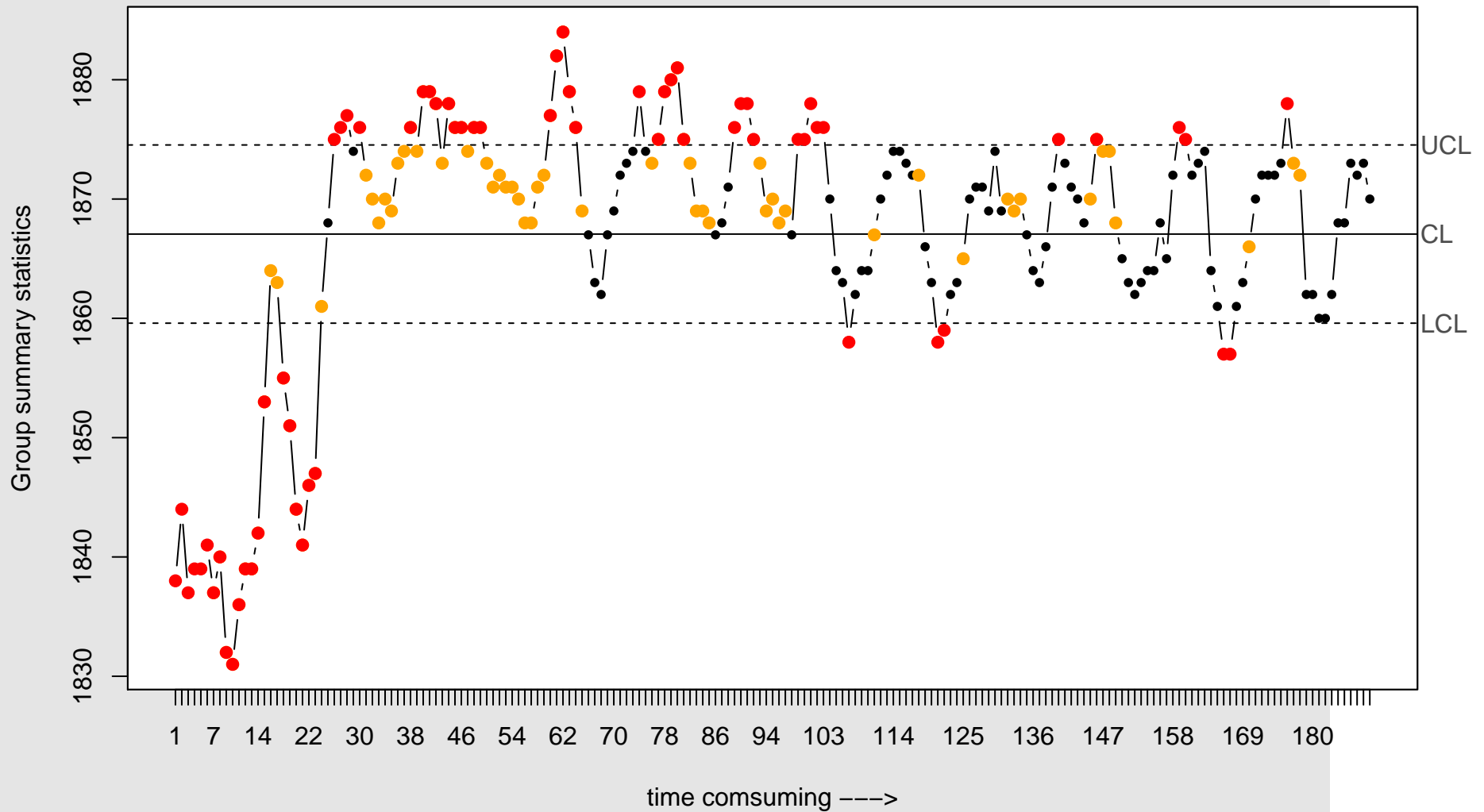
LCL = 1865.234

UCL = 1880.427

Number beyond limits = 66

Number violating runs = 98

314th column point of this product



Number of groups = 189

Center = 1867.063

StdDev = 2.489814

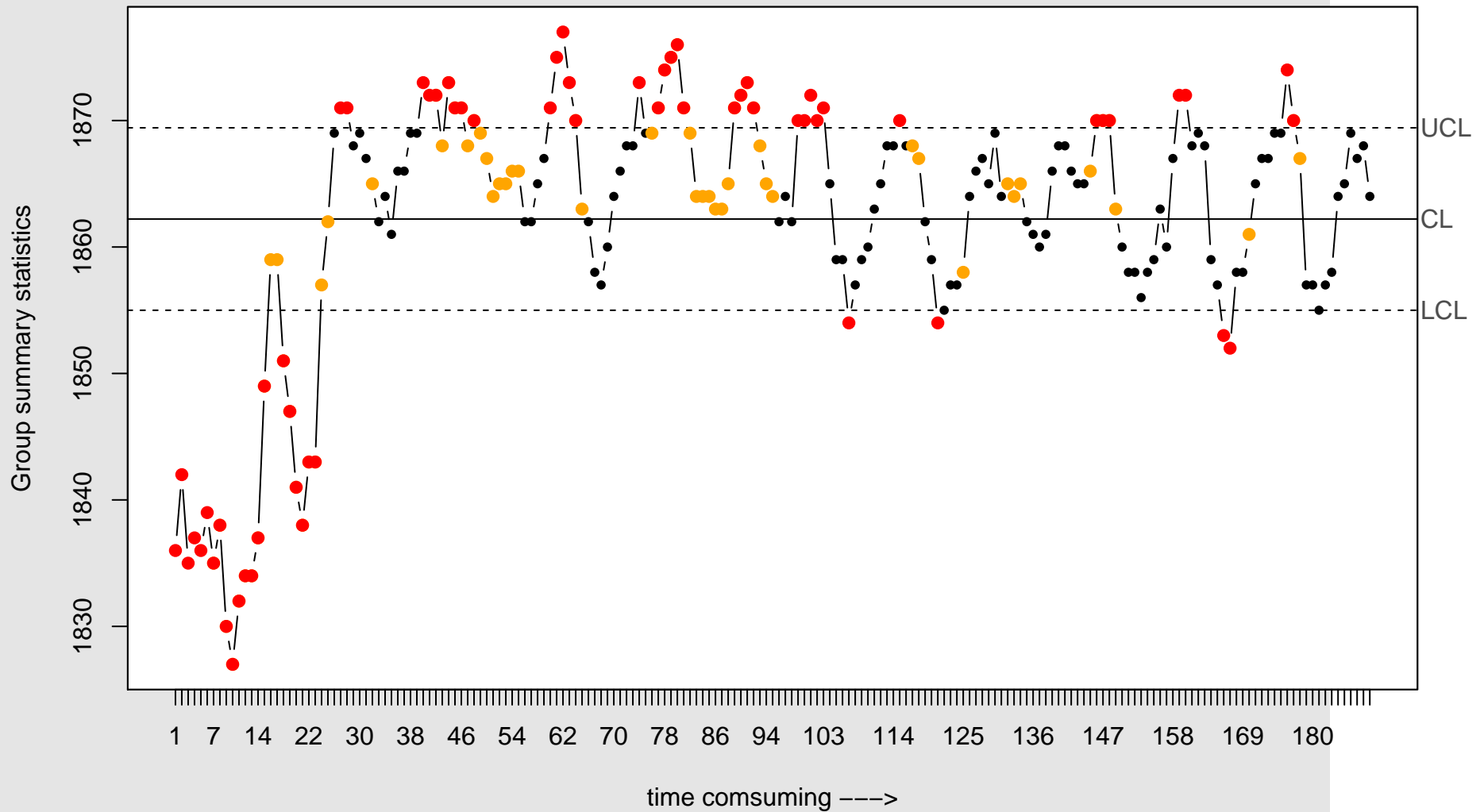
LCL = 1859.594

UCL = 1874.533

Number beyond limits = 64

Number violating runs = 82

315th column point of this product



Number of groups = 189

Center = 1862.212

StdDev = 2.404934

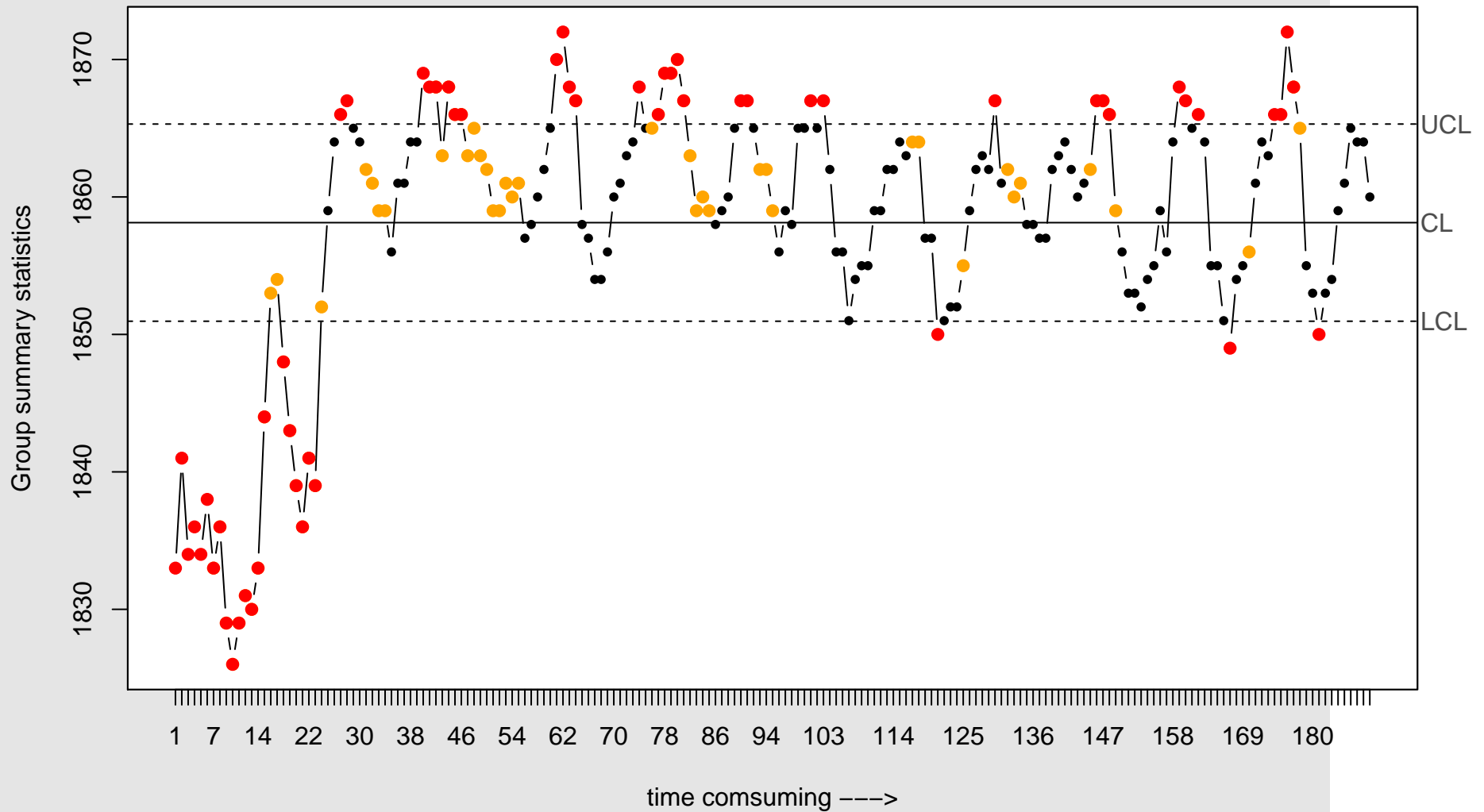
LCL = 1854.997

UCL = 1869.426

Number beyond limits = 62

Number violating runs = 70

316th column point of this product

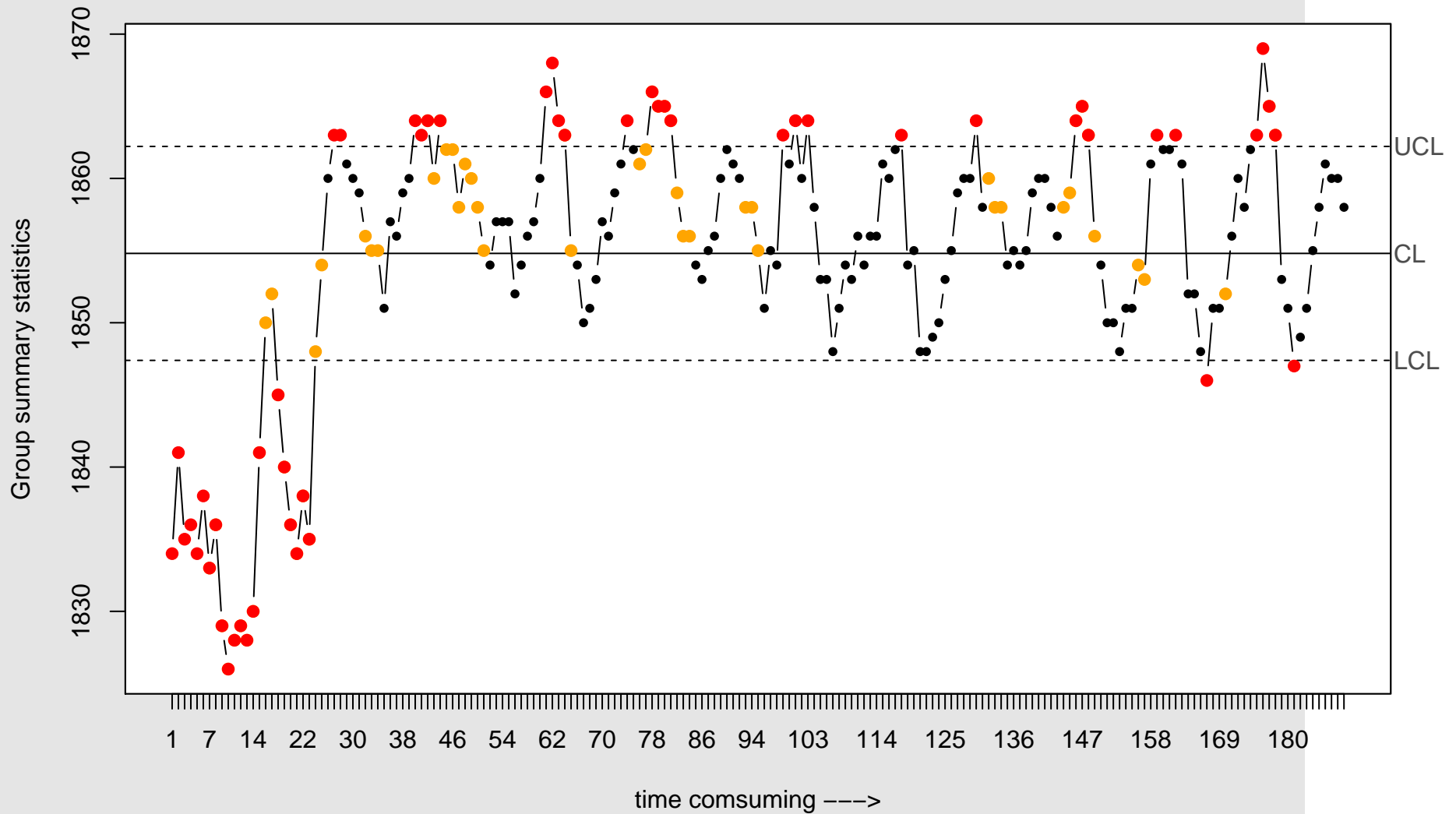


Number of groups = 189
 Center = 1858.132
 StdDev = 2.390788

LCL = 1850.96
 UCL = 1865.305

Number beyond limits = 57
 Number violating runs = 64

317th column point of this product



Number of groups = 189

Center = 1854.804

StdDev = 2.470952

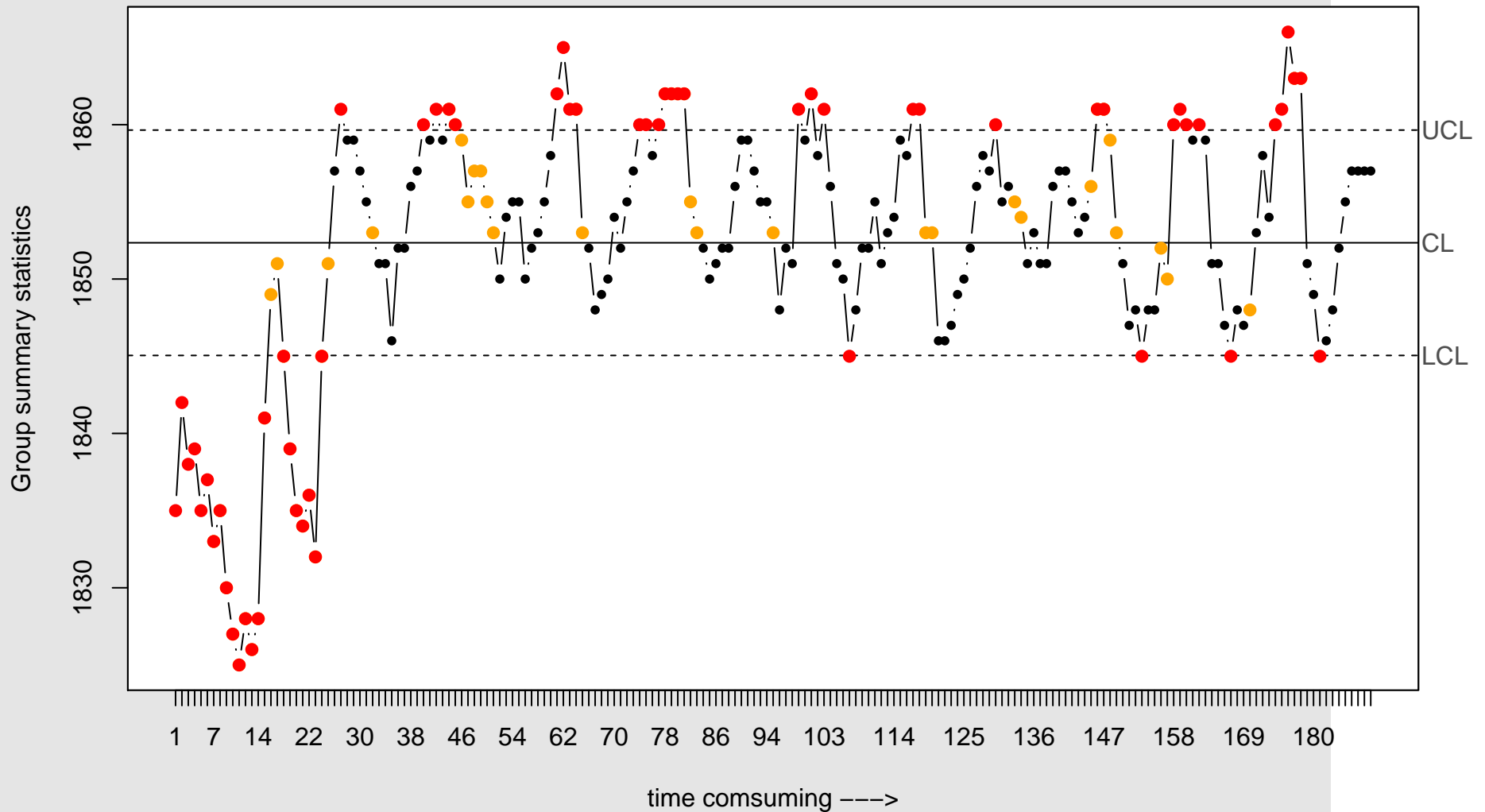
LCL = 1847.391

UCL = 1862.217

Number beyond limits = 52

Number violating runs = 60

318th column point of this product



Number of groups = 189

Center = 1852.349

StdDev = 2.433228

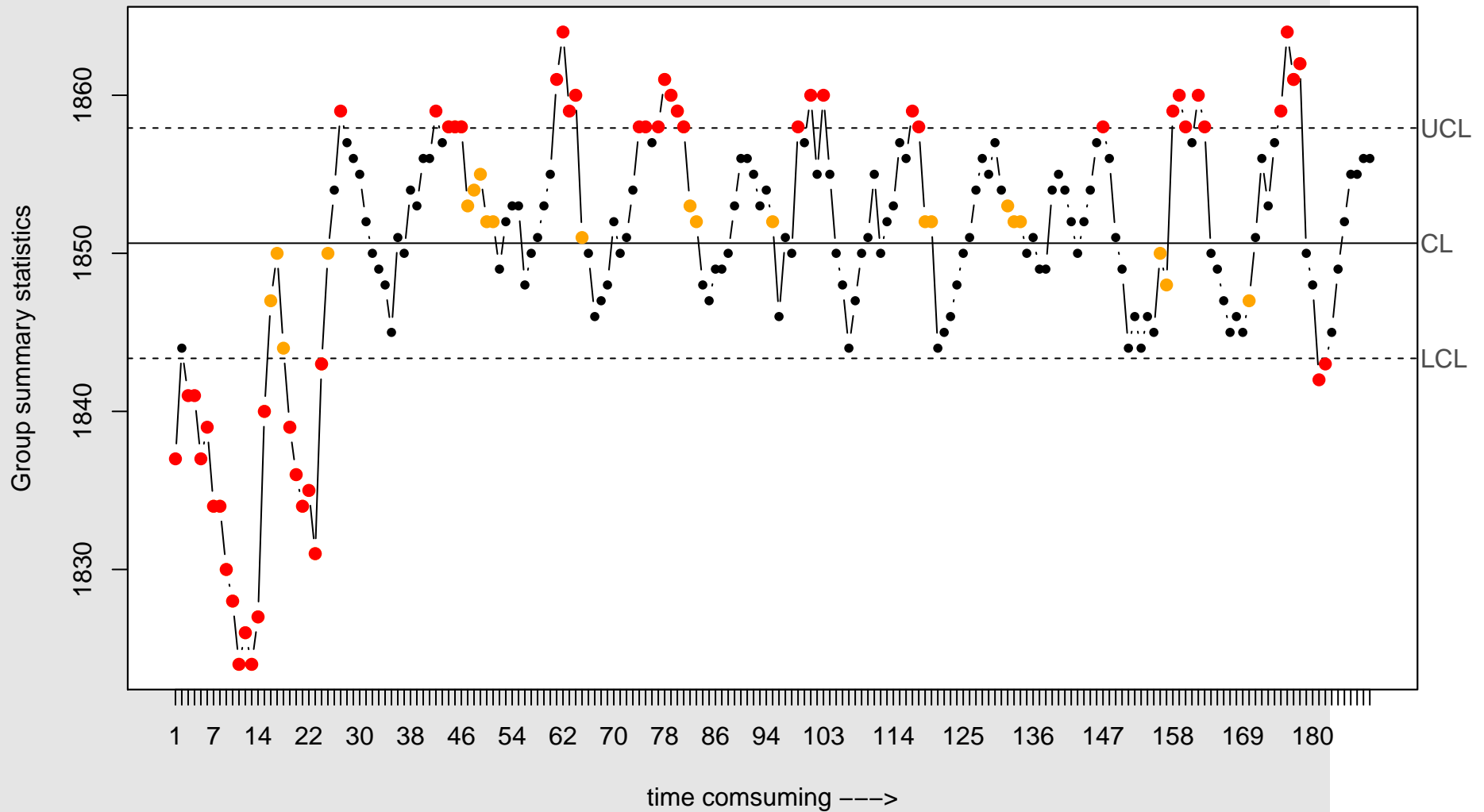
LCL = 1845.05

UCL = 1859.649

Number beyond limits = 59

Number violating runs = 51

319th column point of this product



Number of groups = 189

Center = 1850.64

StdDev = 2.428512

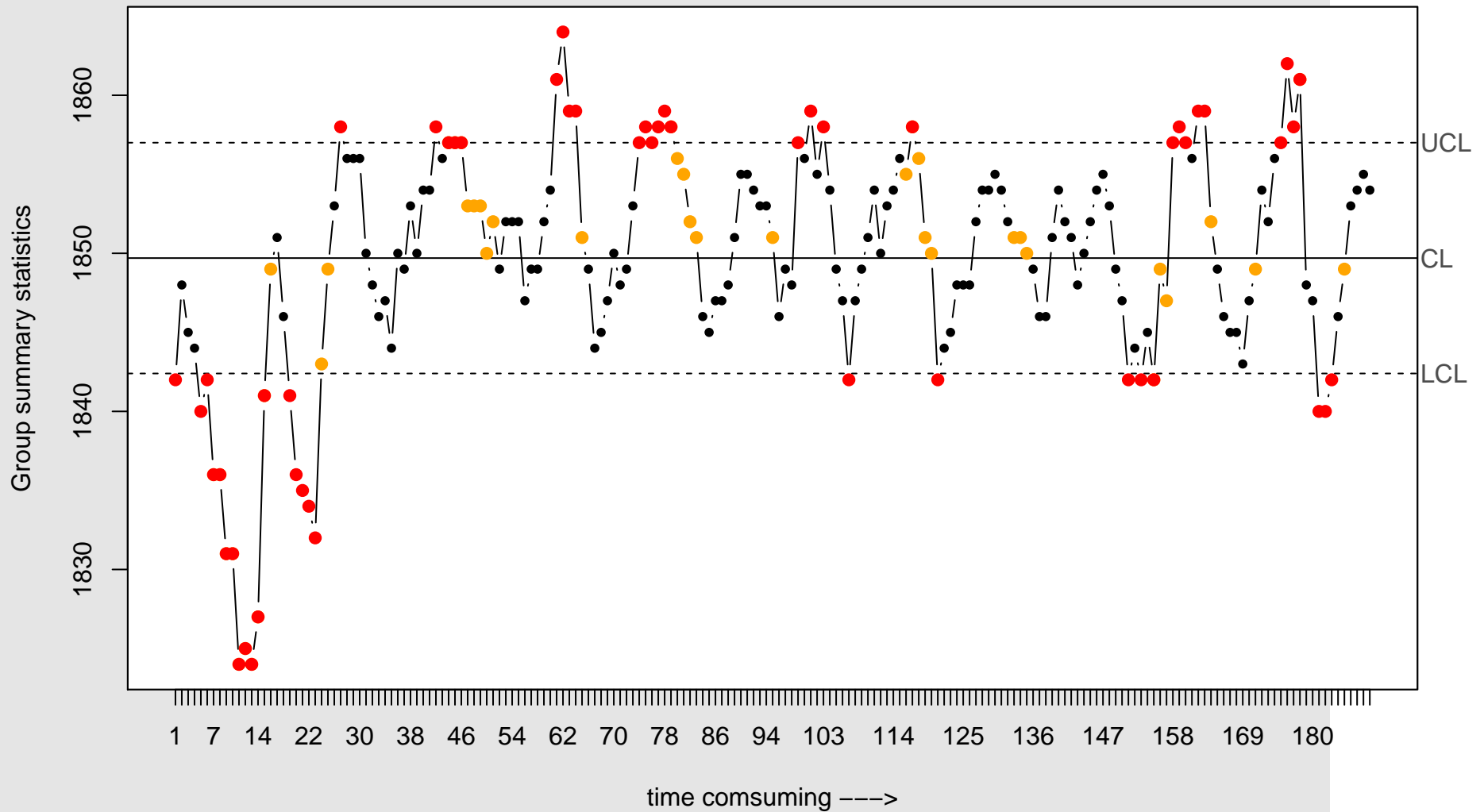
LCL = 1843.355

UCL = 1857.926

Number beyond limits = 53

Number violating runs = 46

320th column point of this product

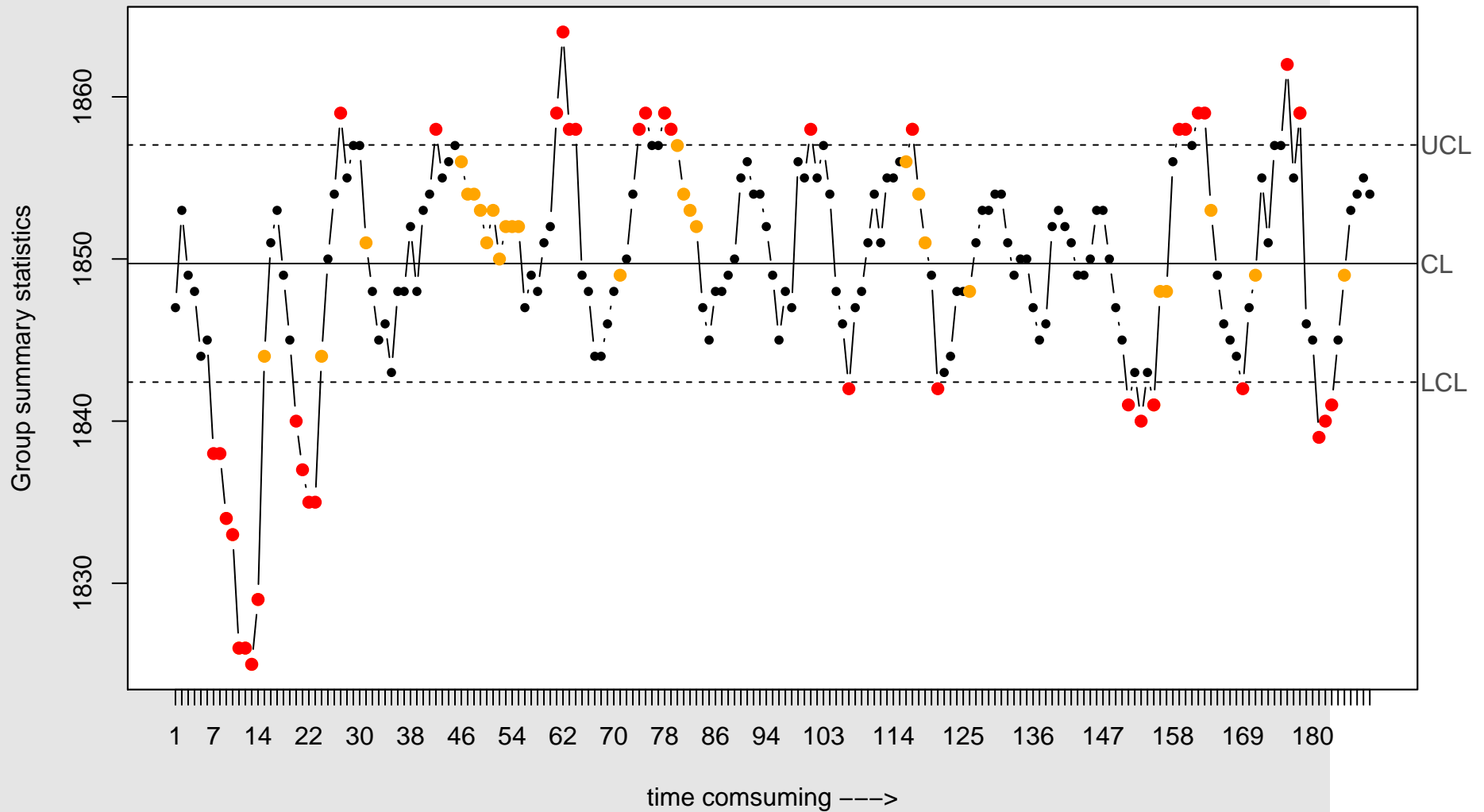


Number of groups = 189
Center = 1849.698
StdDev = 2.433228

LCL = 1842.399
UCL = 1856.998

Number beyond limits = 53
Number violating runs = 42

321th column point of this product

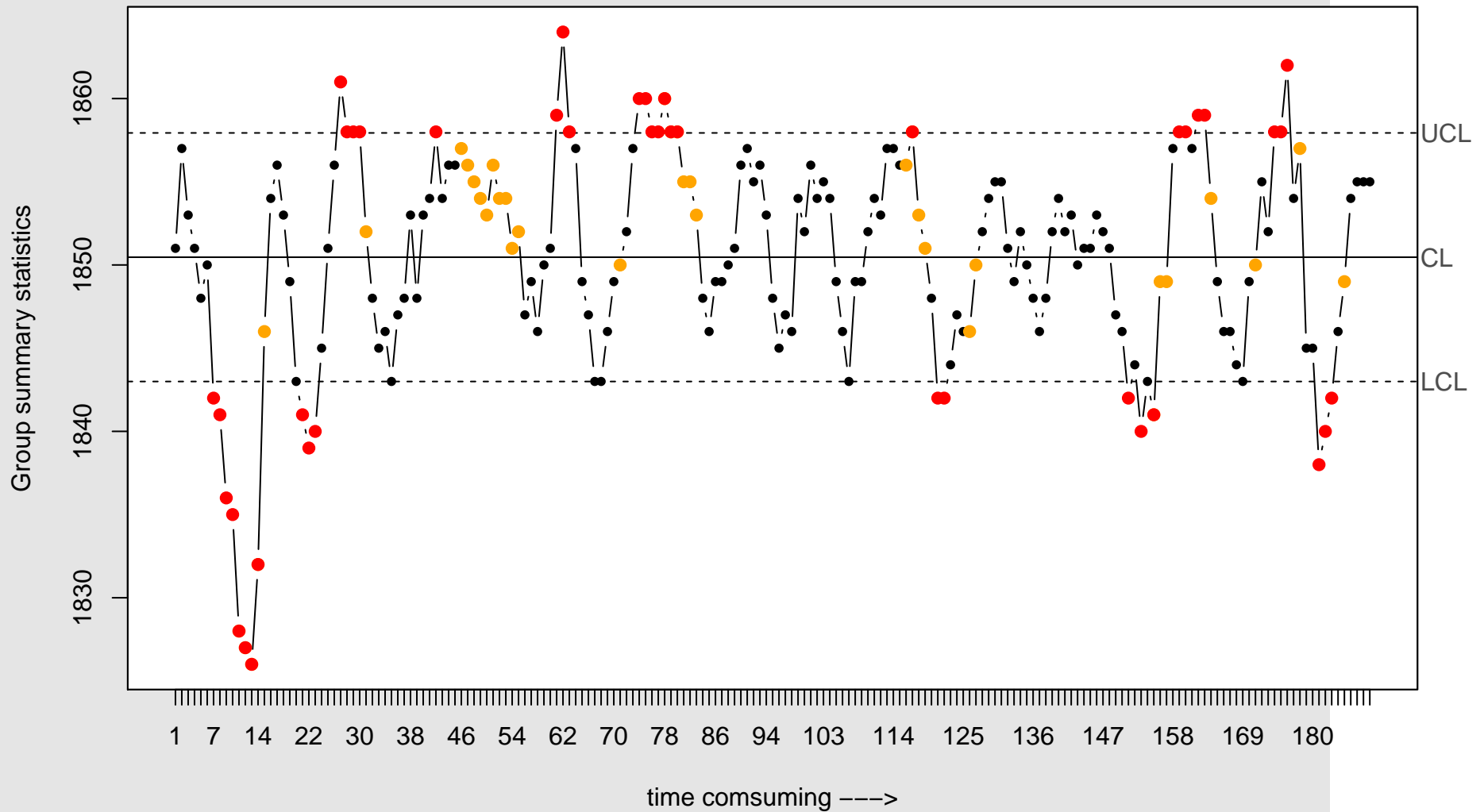


Number of groups = 189
 Center = 1849.72
 StdDev = 2.437943

LCL = 1842.406
 UCL = 1857.033

Number beyond limits = 39
 Number violating runs = 38

322th column point of this product



Number of groups = 189

Center = 1850.466

StdDev = 2.489814

LCL = 1842.996

UCL = 1857.935

Number beyond limits = 42

Number violating runs = 36