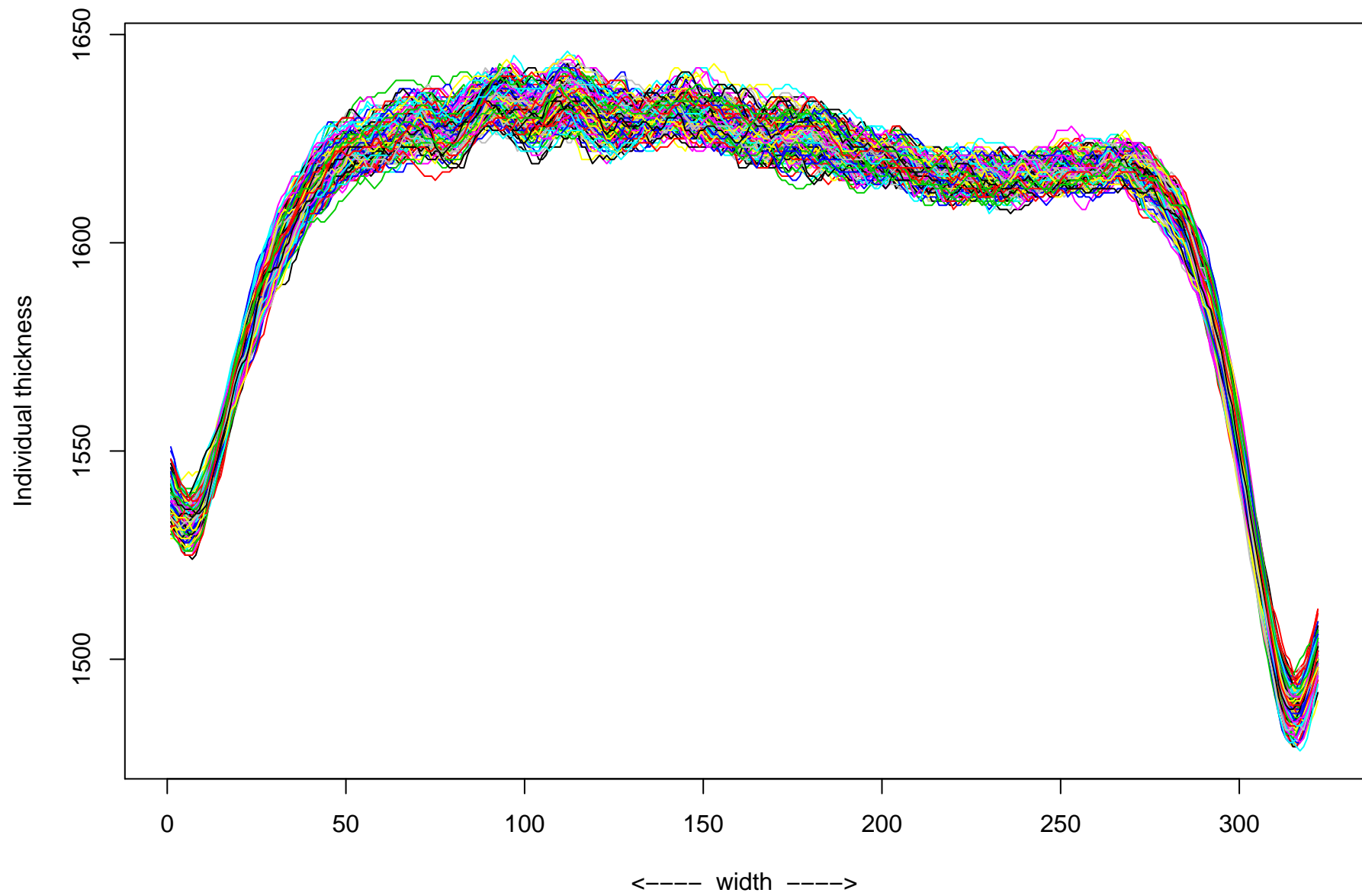
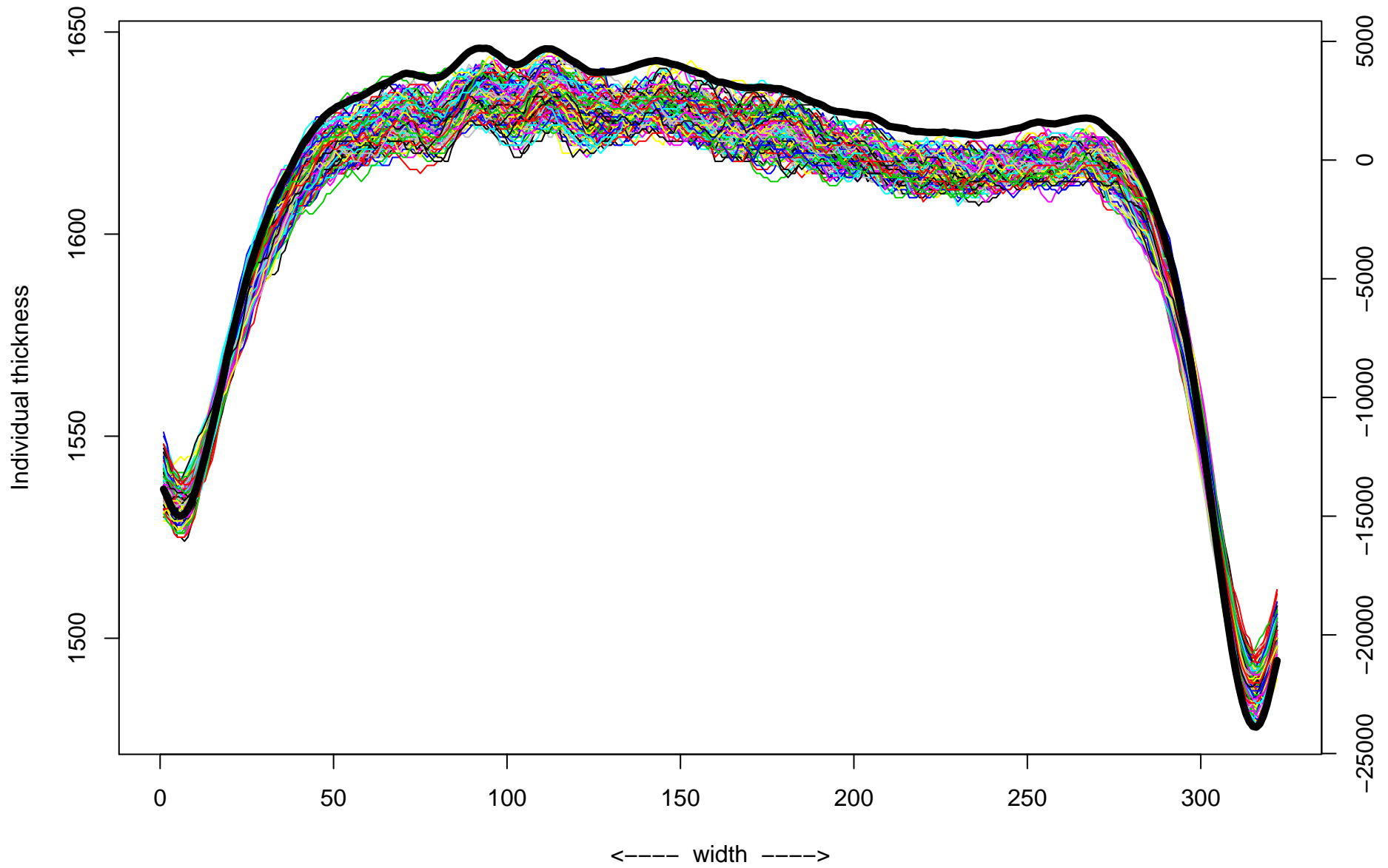


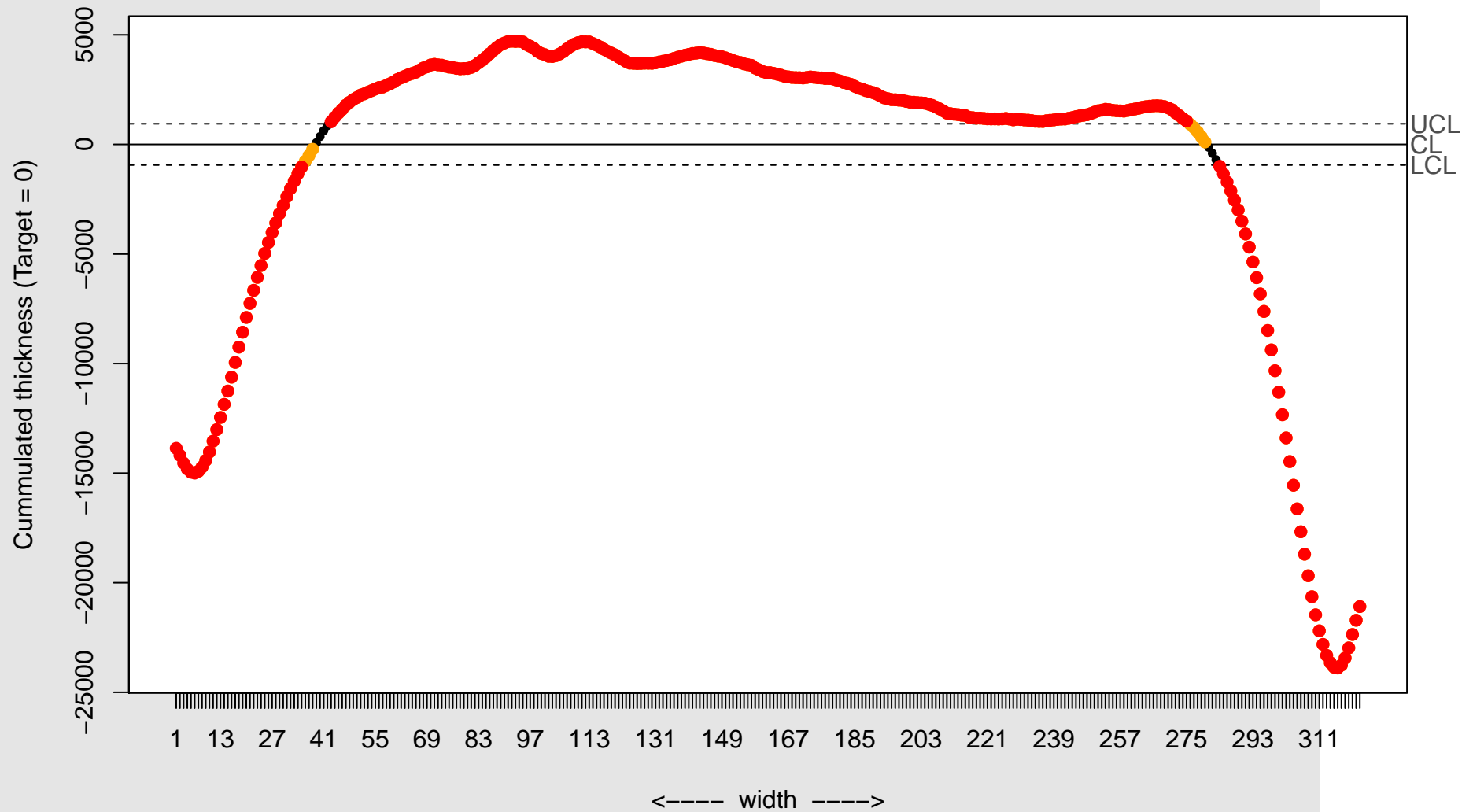
Individual thickness only



Simulated thickness



Simulated thickness



Number of groups = 322

Center = 0

StdDev = 156.9563

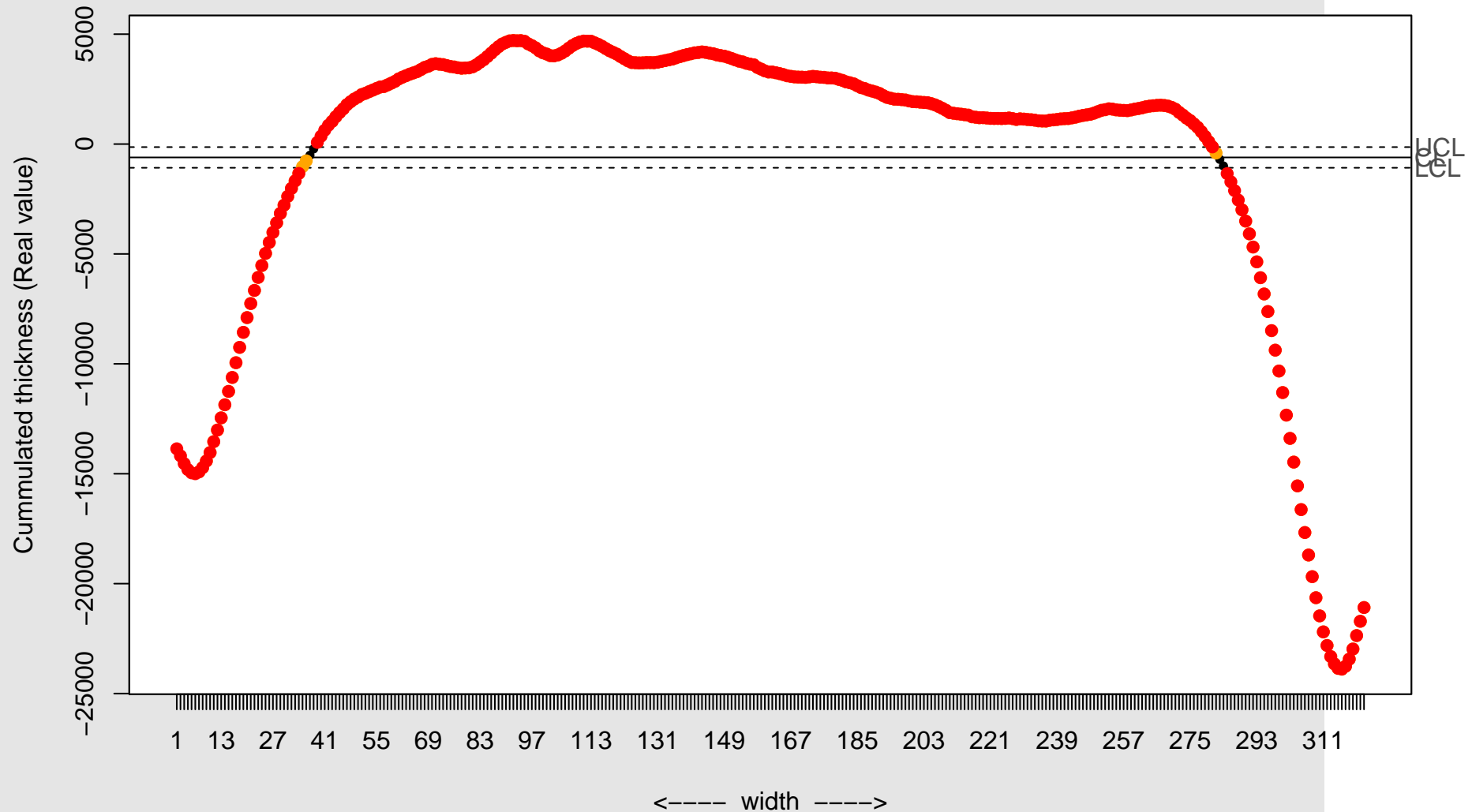
LCL = -941.7379

UCL = 941.7379

Number beyond limits = 307

Number violating runs = 304

Simulated thickness: Cpk is -0.02758 and z is -1.583 .

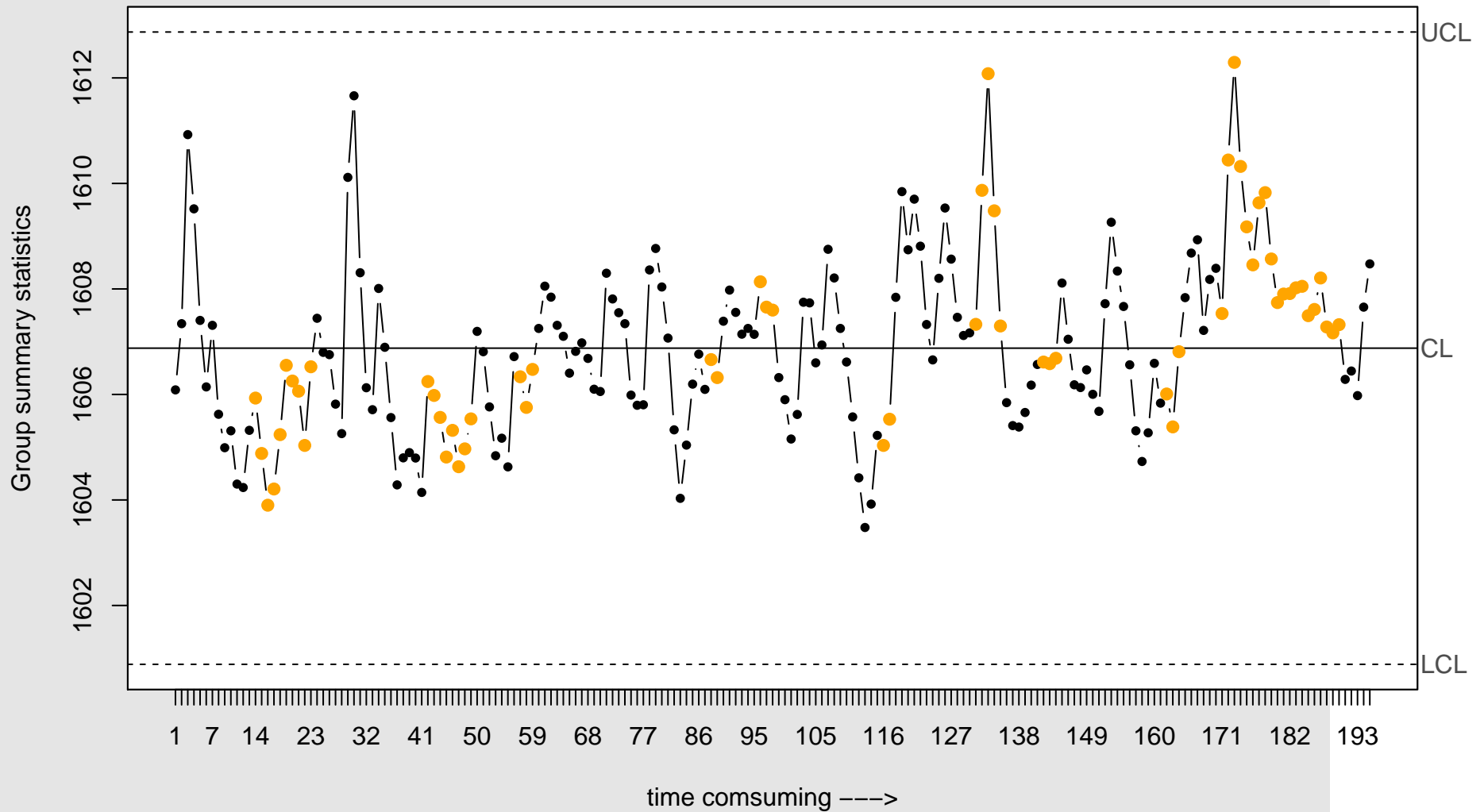


Number of groups = 322
Center = -608.9161
StdDev = 156.9563

LCL = -1079.785
UCL = -138.0472

Number beyond limits = 315
Number violating runs = 304

X-bar chart for a given dataset



Number of groups = 195

Center = 1606.877

StdDev = 35.84604

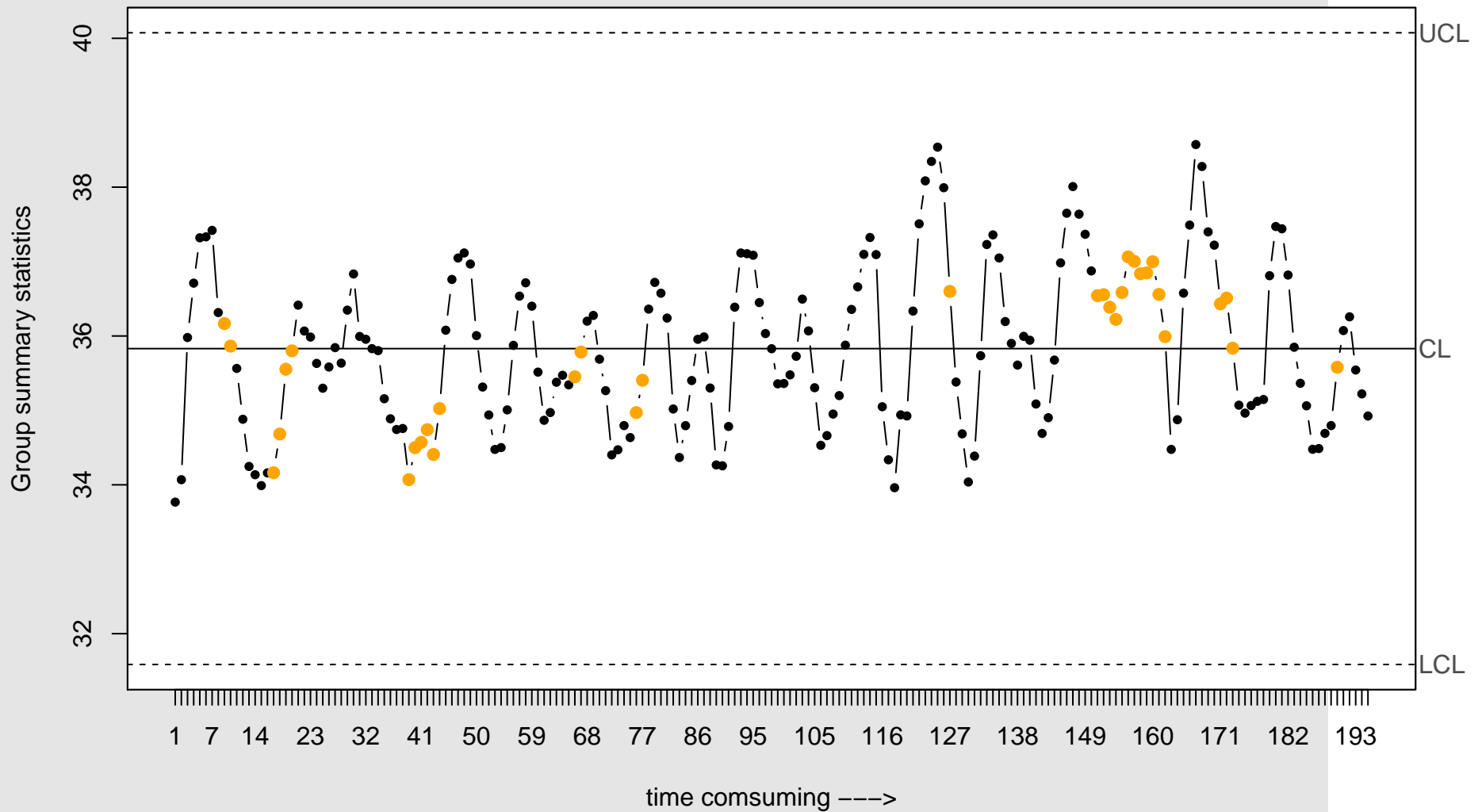
LCL = 1600.884

UCL = 1612.87

Number beyond limits = 0

Number violating runs = 59

S chart for a given dataset

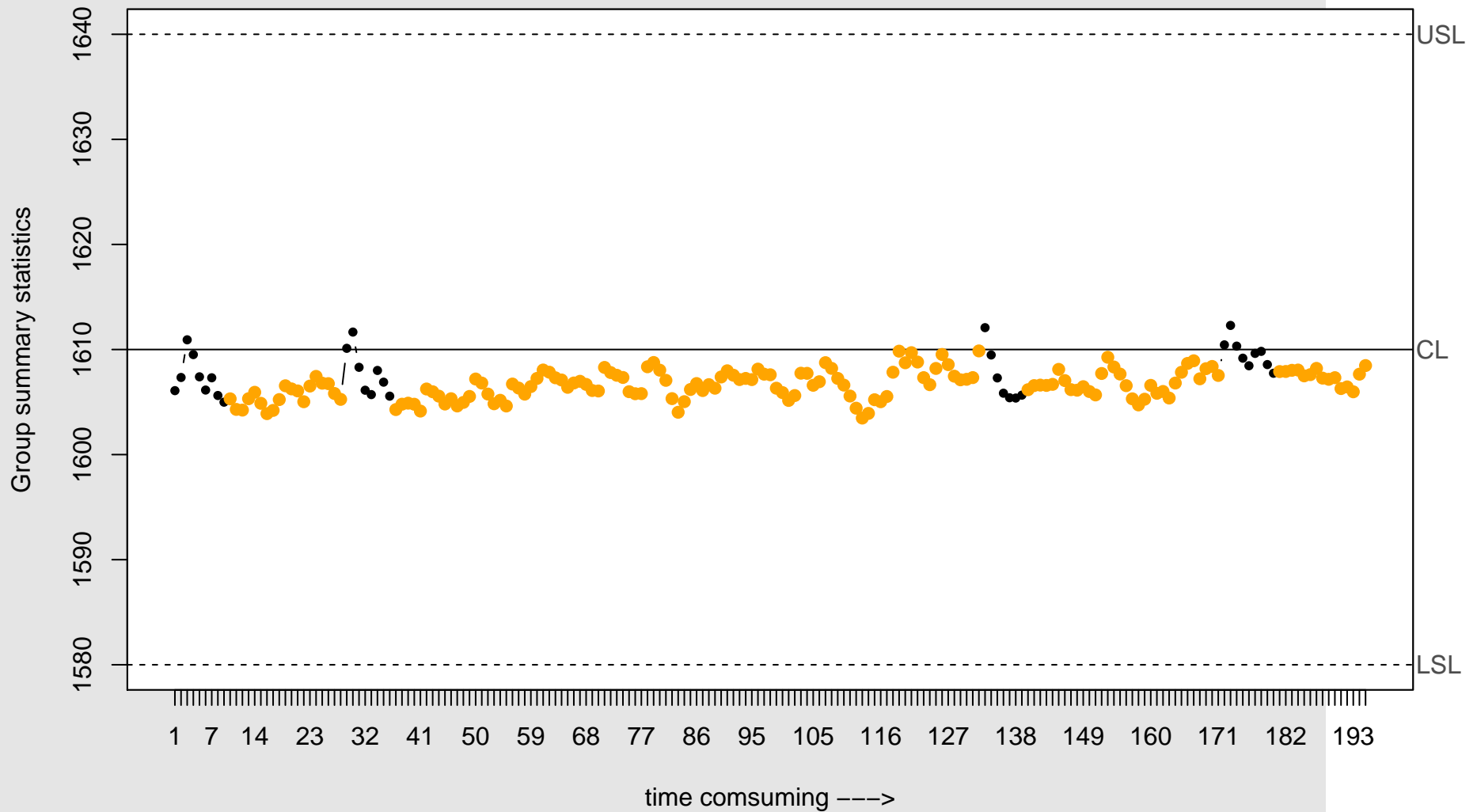


Number of groups = 195
Center = 35.83018
StdDev = 35.85809

LCL = 31.58621
UCL = 40.07414

Number beyond limits = 0
Number violating runs = 33

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



Number of groups = 195

Center = 1610

StdDev = 35.84604

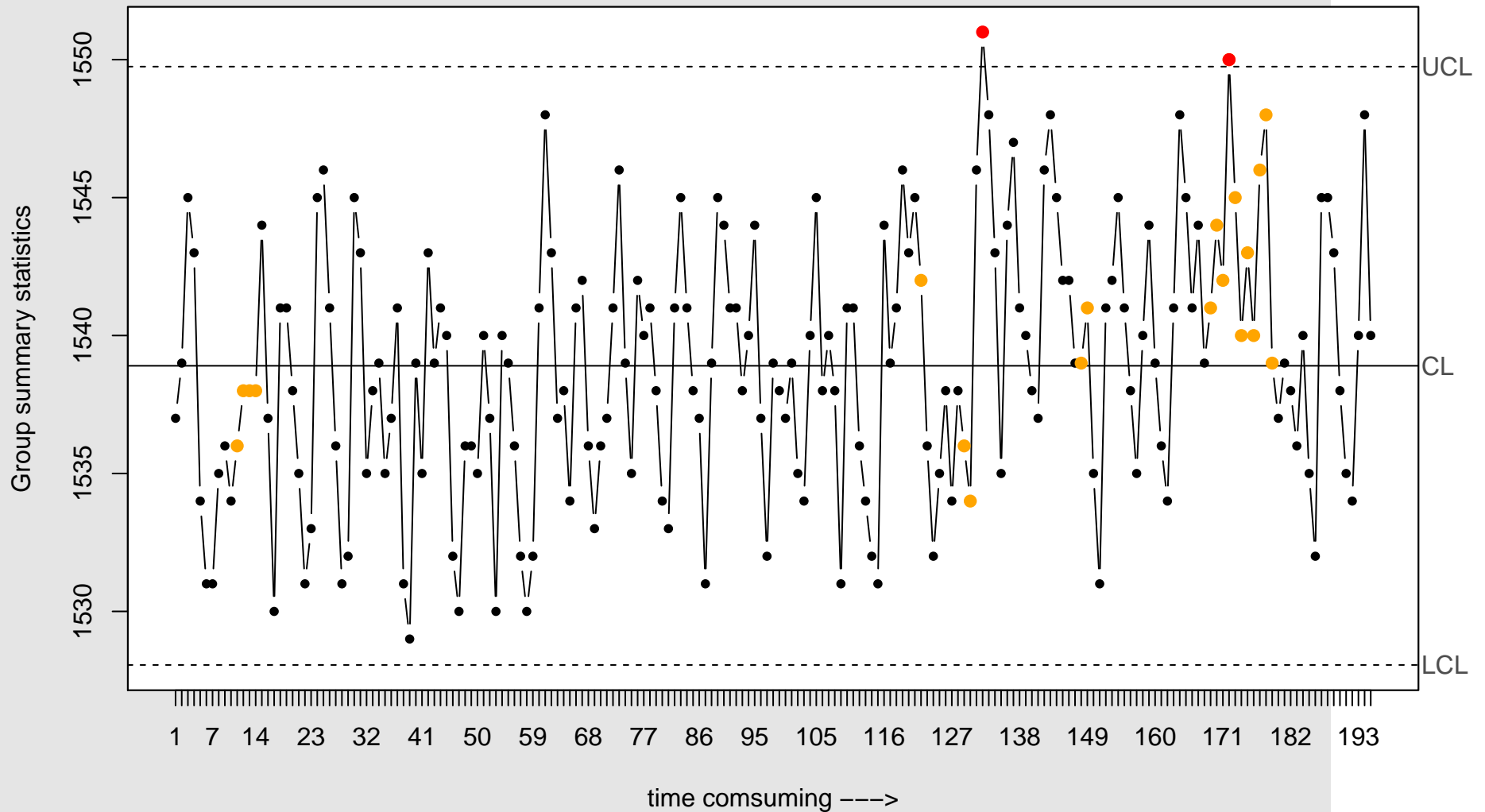
LCL = 1580

UCL = 1640

Number beyond limits = 0

Number violating runs = 162

1th column point of this product



Number of groups = 195

Center = 1538.903

StdDev = 3.614645

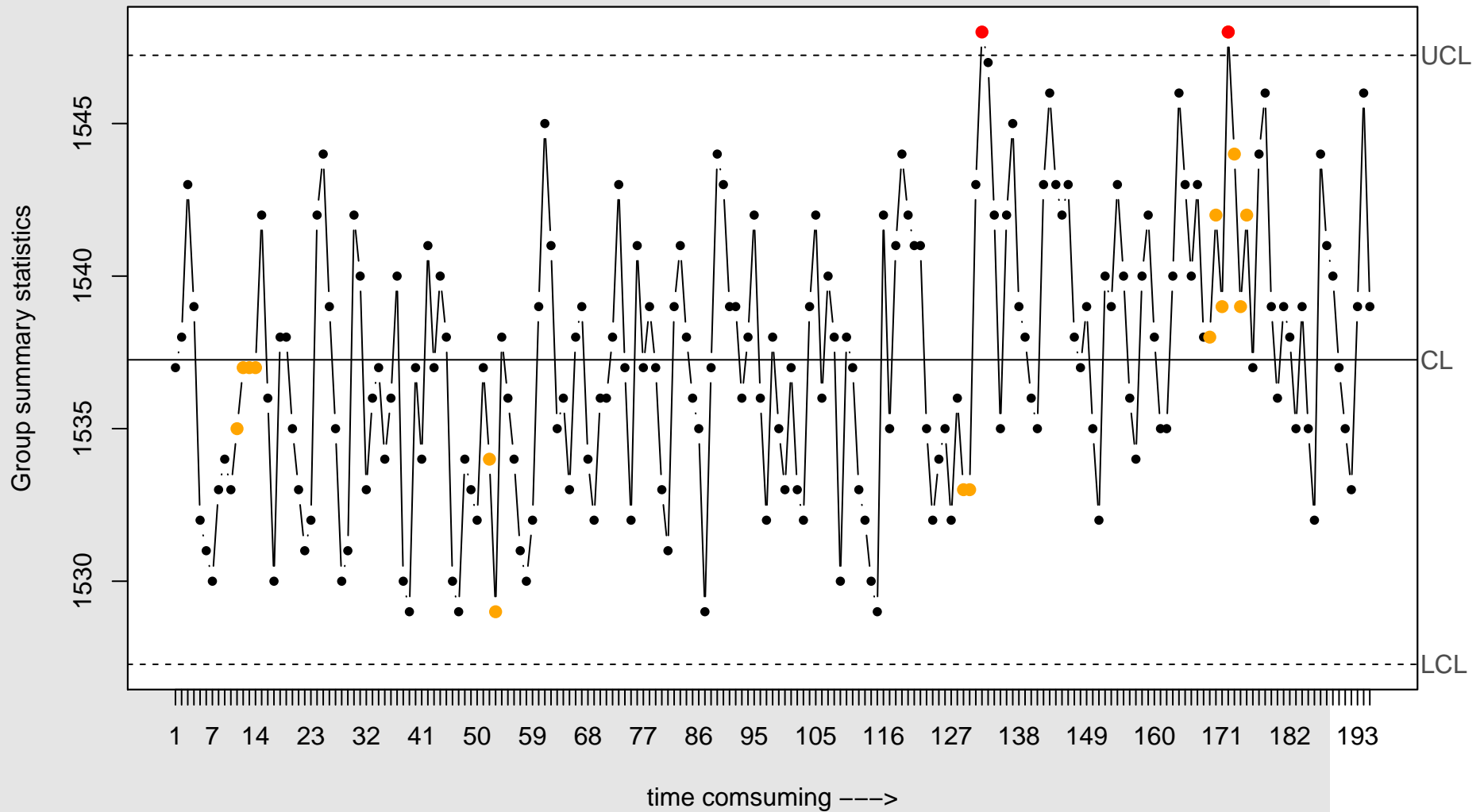
LCL = 1528.059

UCL = 1549.746

Number beyond limits = 2

Number violating runs = 20

2th column point of this product



Number of groups = 195

Center = 1537.256

StdDev = 3.326753

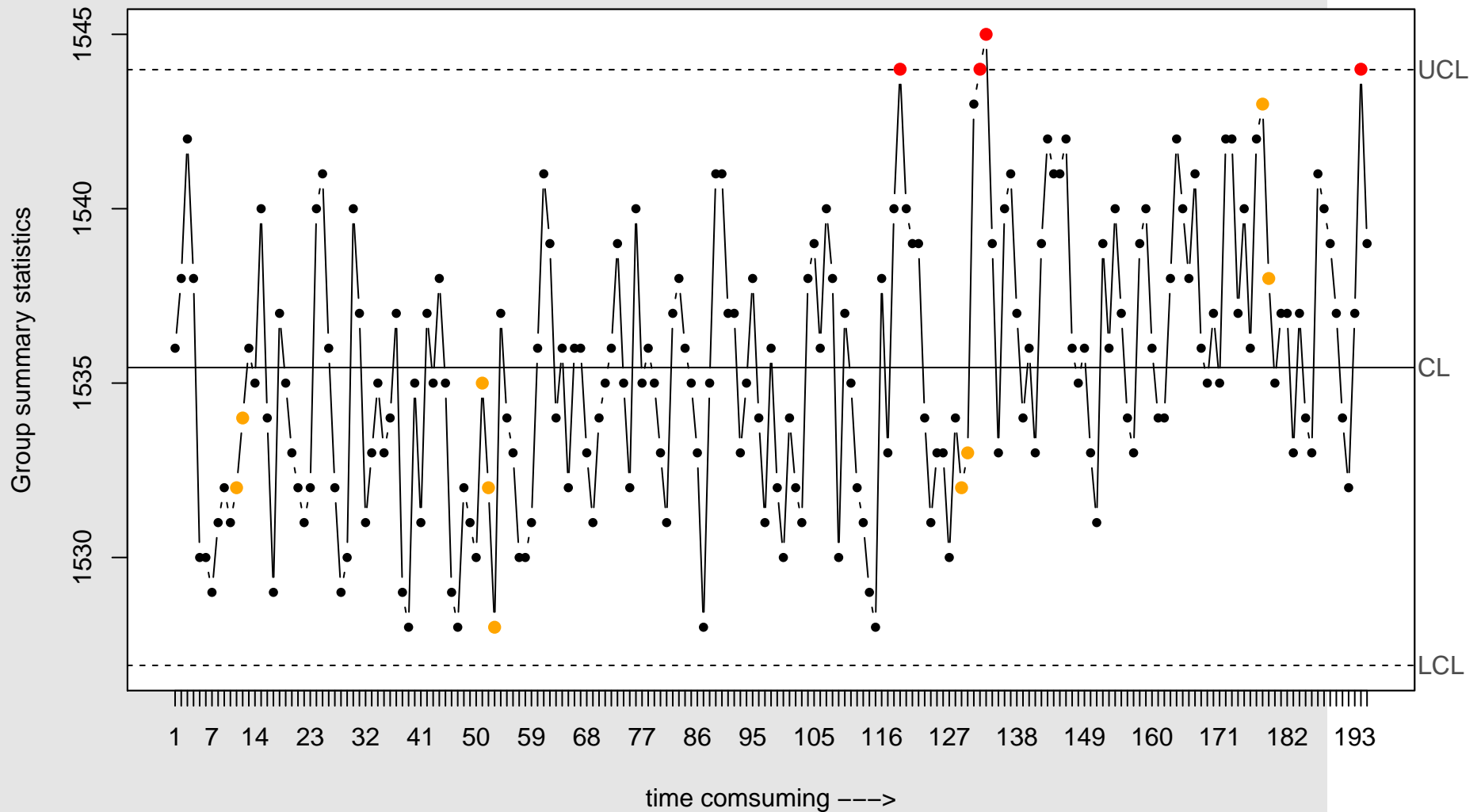
LCL = 1527.276

UCL = 1547.237

Number beyond limits = 2

Number violating runs = 15

3th column point of this product



Number of groups = 195

Center = 1535.446

StdDev = 2.846933

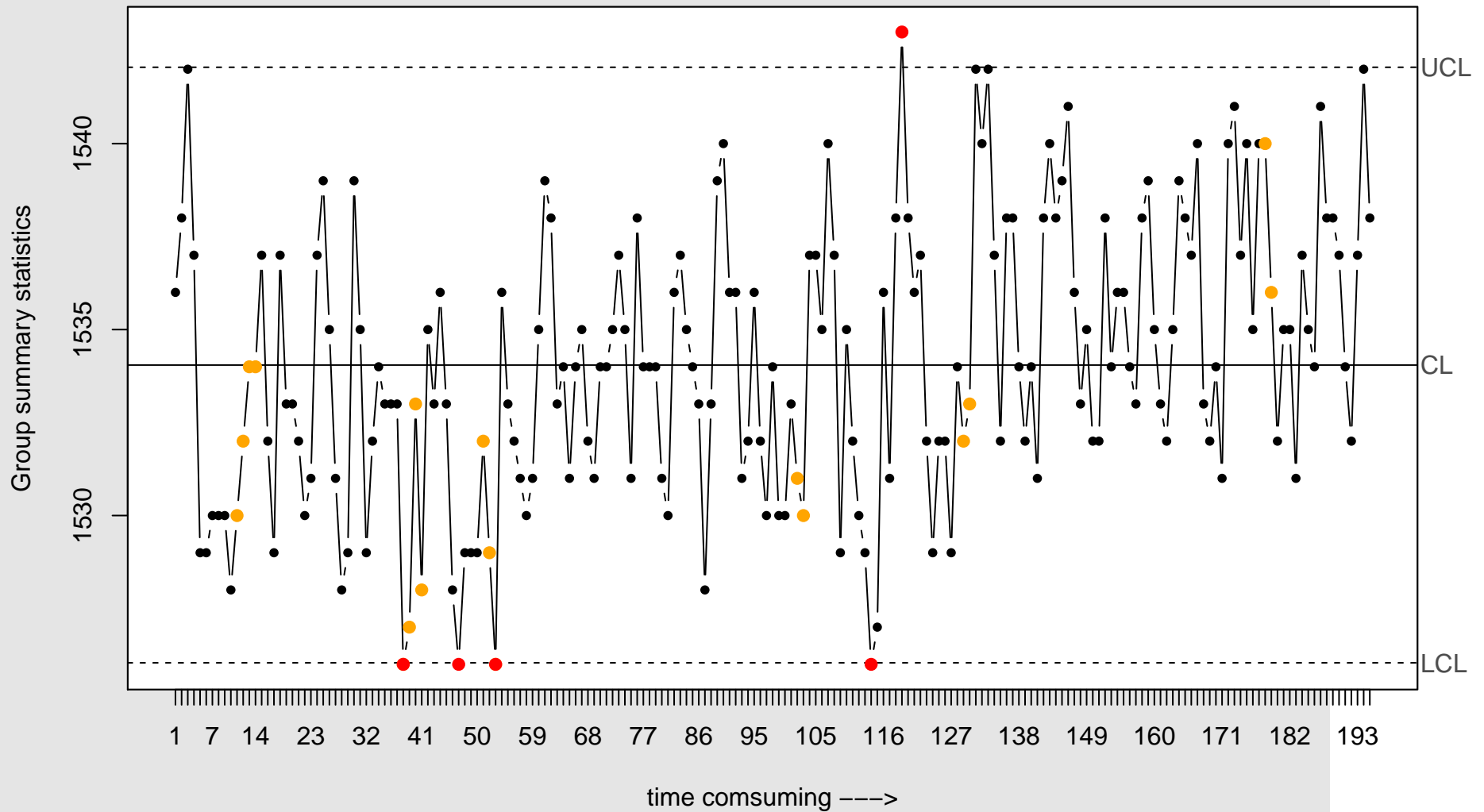
LCL = 1526.905

UCL = 1543.987

Number beyond limits = 4

Number violating runs = 9

4th column point of this product



Number of groups = 195

Center = 1534.046

StdDev = 2.668714

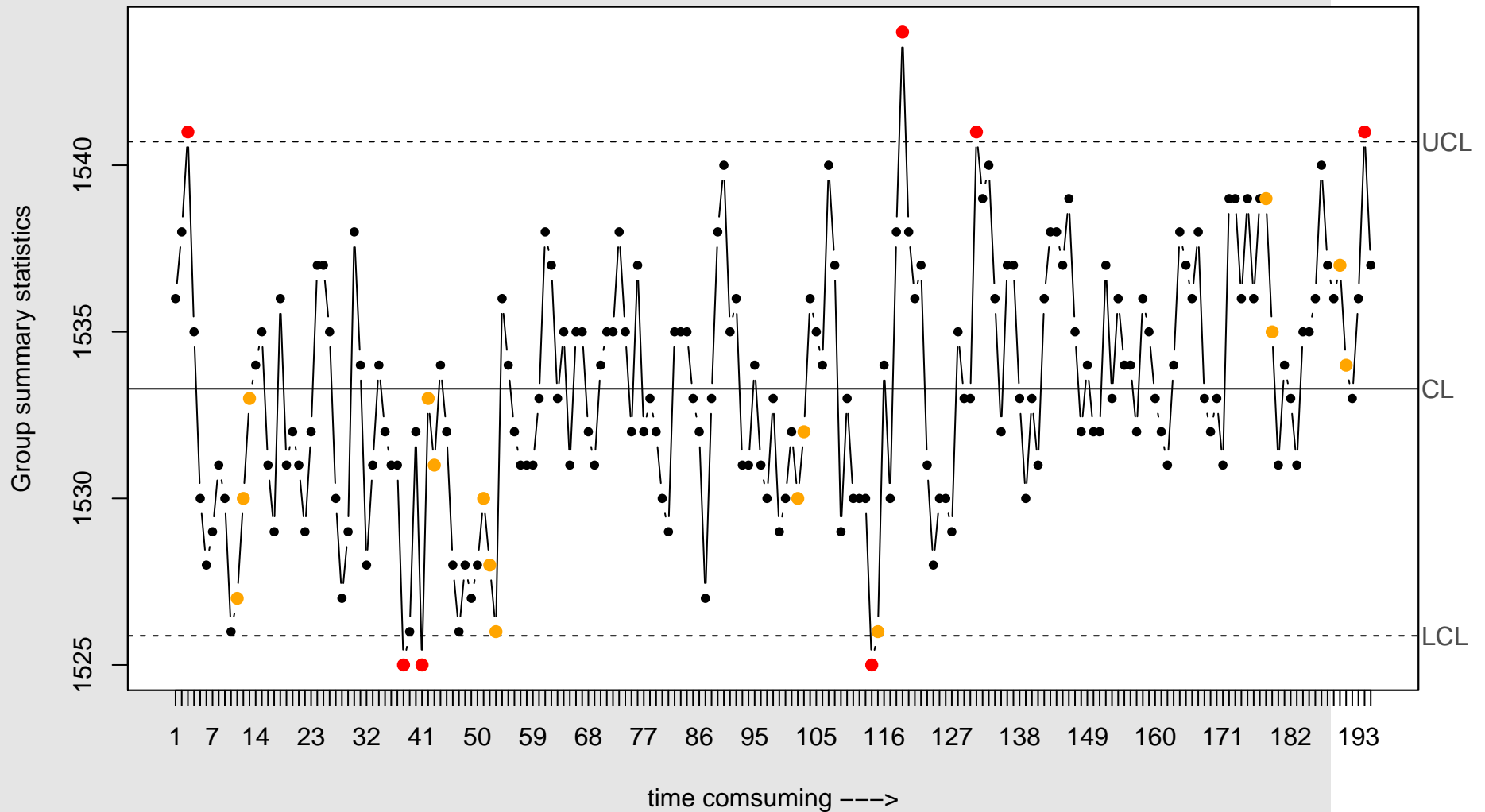
LCL = 1526.04

UCL = 1542.052

Number beyond limits = 5

Number violating runs = 17

5th column point of this product



Number of groups = 195

Center = 1533.292

StdDev = 2.472216

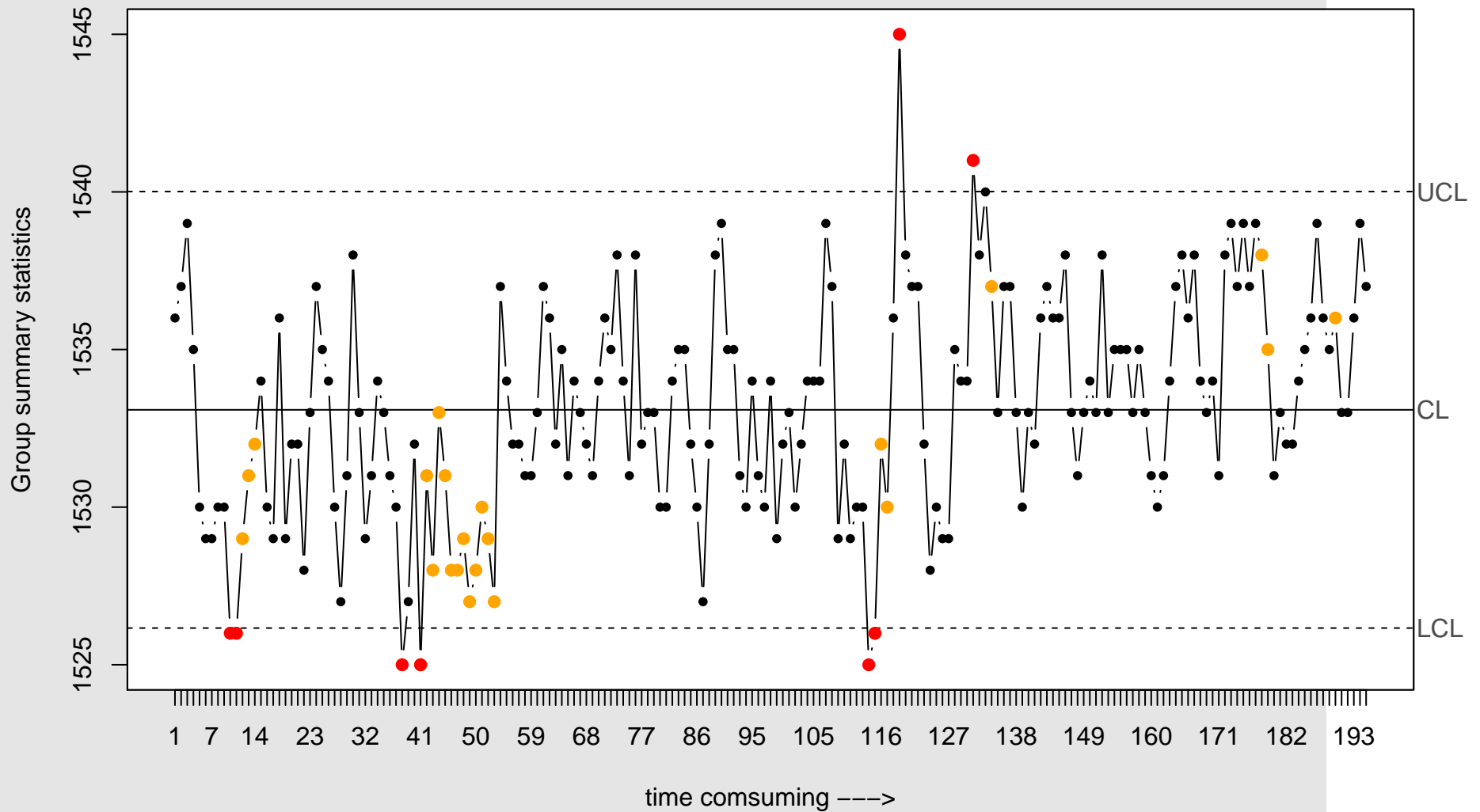
LCL = 1525.876

UCL = 1540.709

Number beyond limits = 7

Number violating runs = 16

6th column point of this product



Number of groups = 195

Center = 1533.087

StdDev = 2.307706

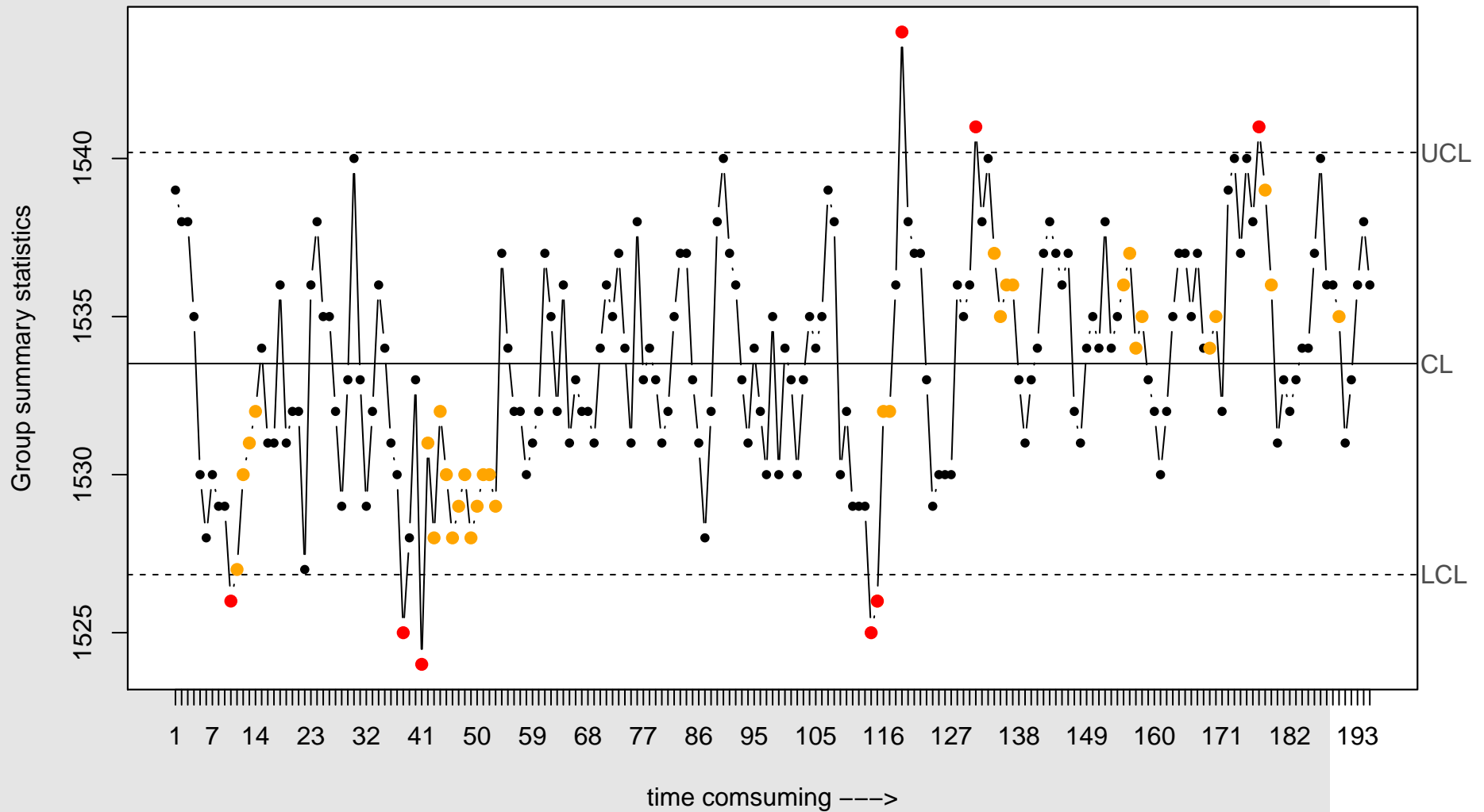
LCL = 1526.164

UCL = 1540.01

Number beyond limits = 8

Number violating runs = 24

7th column point of this product



Number of groups = 195

Center = 1533.513

StdDev = 2.225451

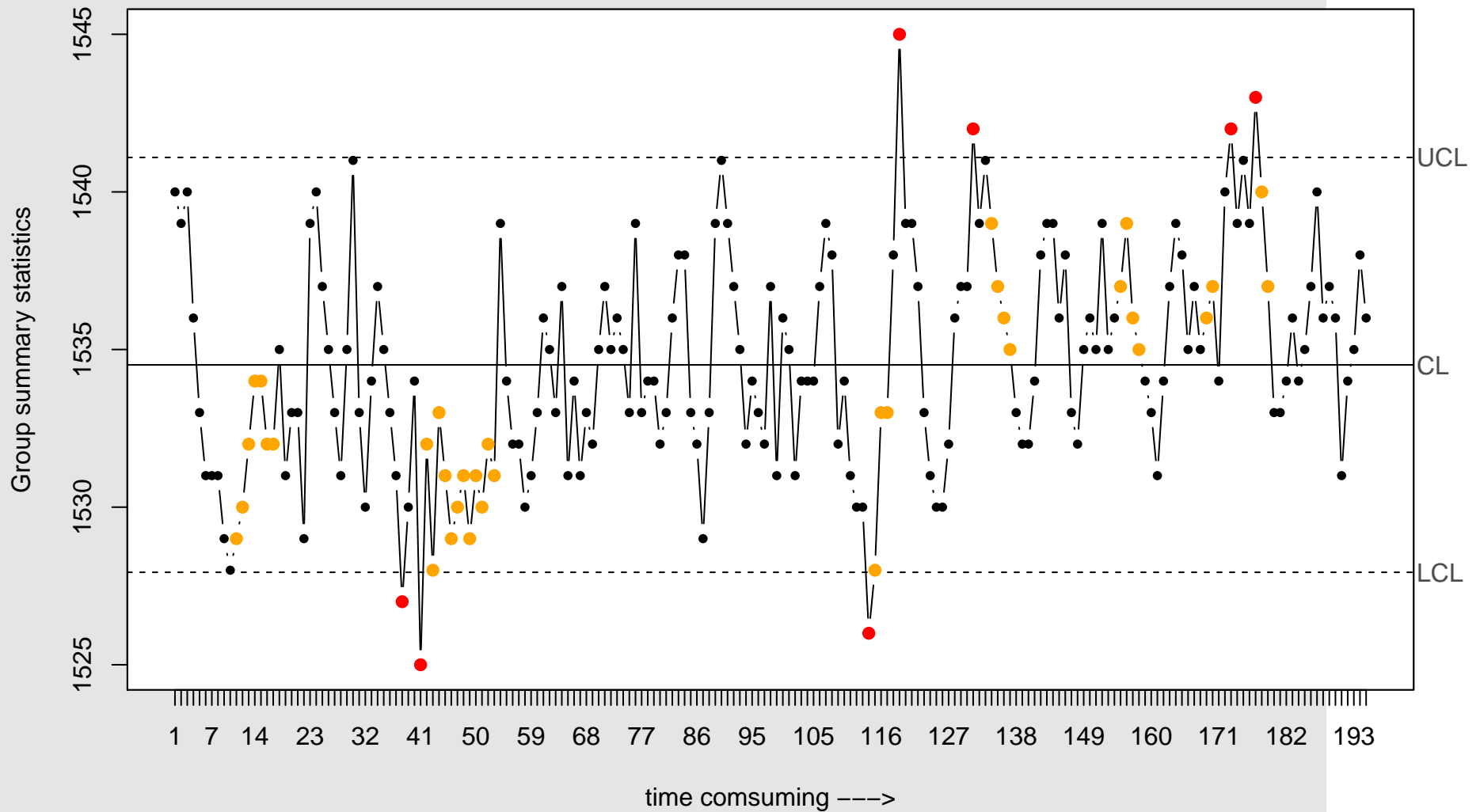
LCL = 1526.836

UCL = 1540.189

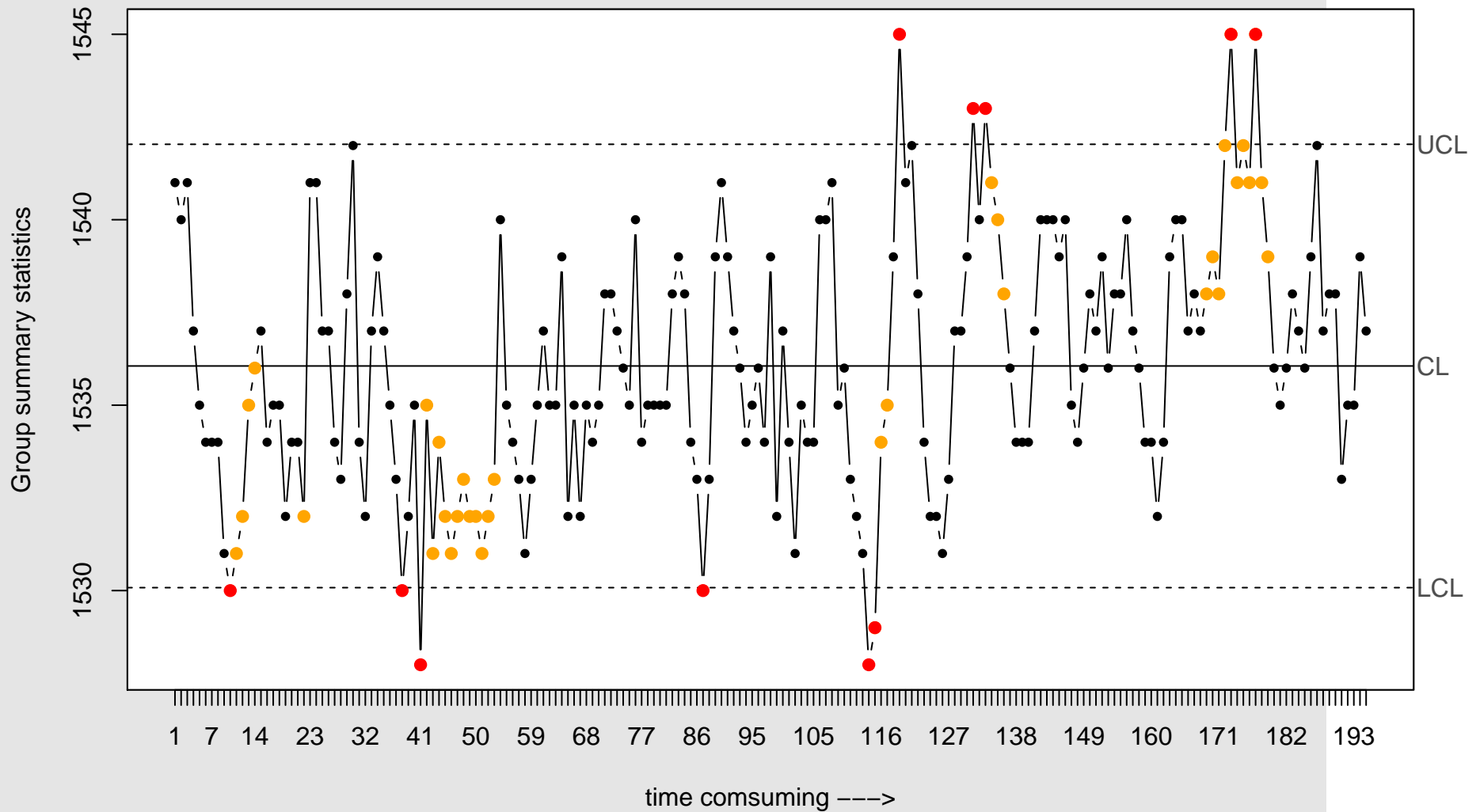
Number beyond limits = 8

Number violating runs = 32

8th column point of this product



9th column point of this product



Number of groups = 195

Center = 1536.056

StdDev = 1.992396

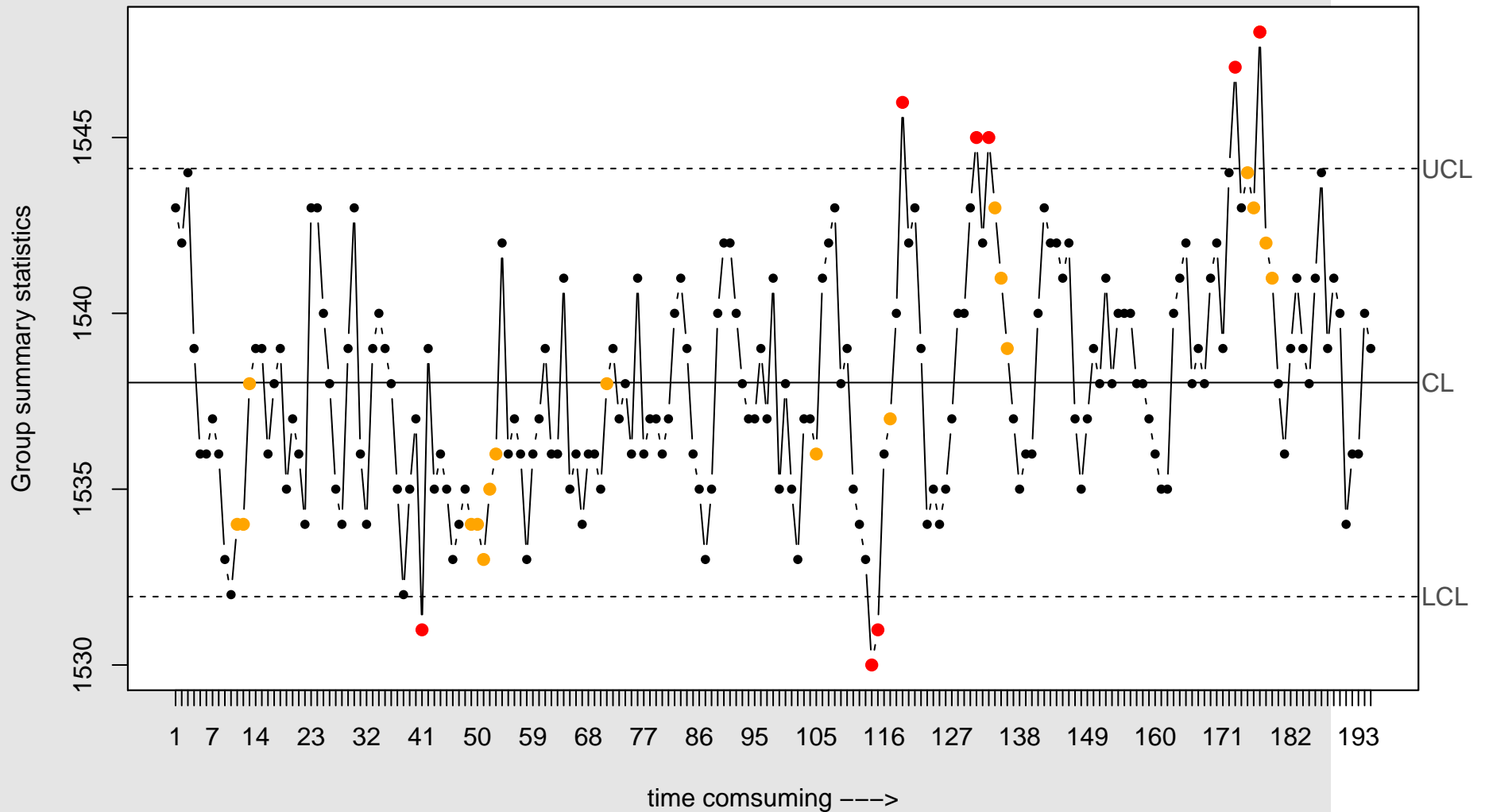
LCL = 1530.079

UCL = 1542.034

Number beyond limits = 11

Number violating runs = 34

10th column point of this product



Number of groups = 195

Center = 1538.031

StdDev = 2.028954

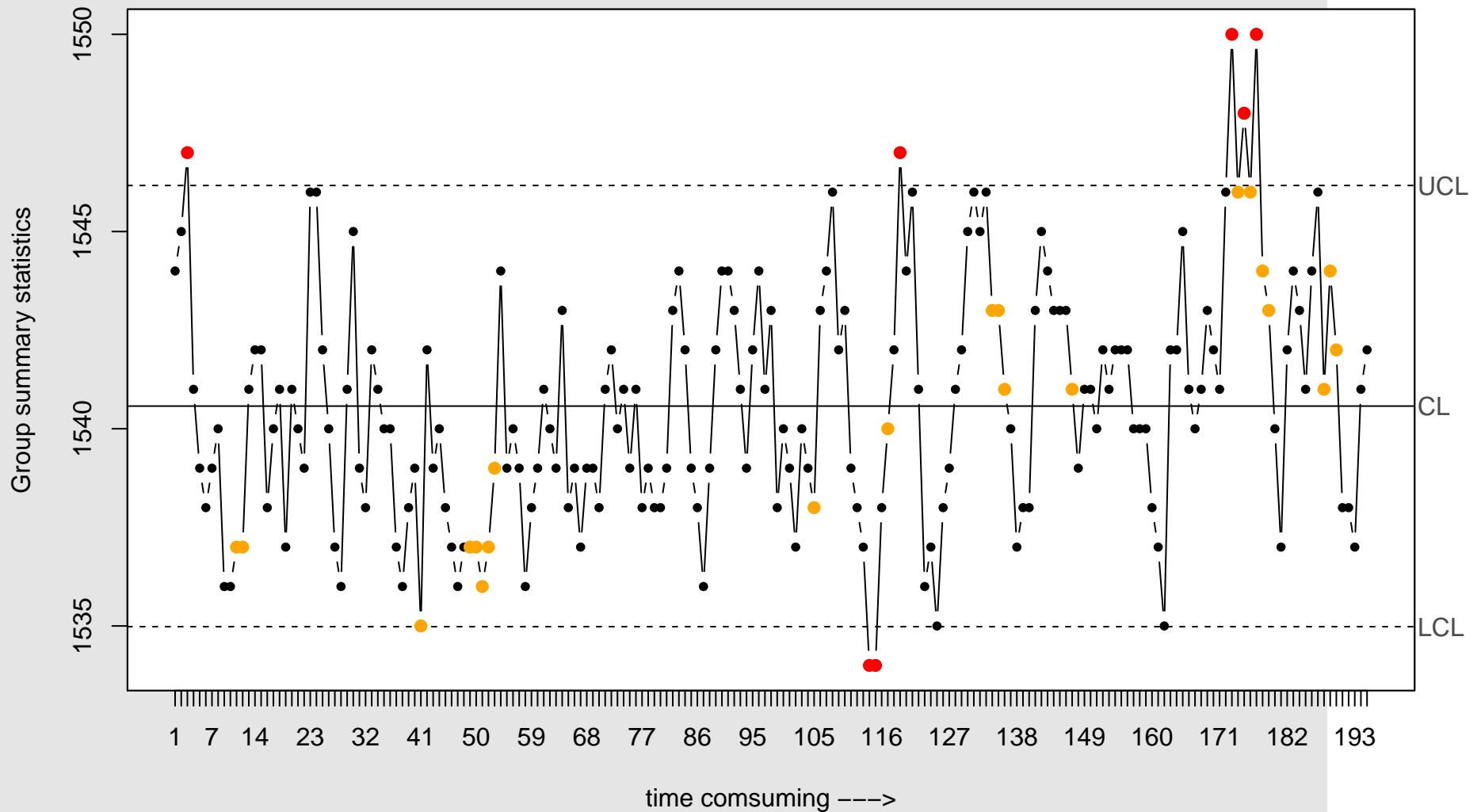
LCL = 1531.944

UCL = 1544.118

Number beyond limits = 8

Number violating runs = 19

11th column point of this product



Number of groups = 195

Center = 1540.574

StdDev = 1.864444

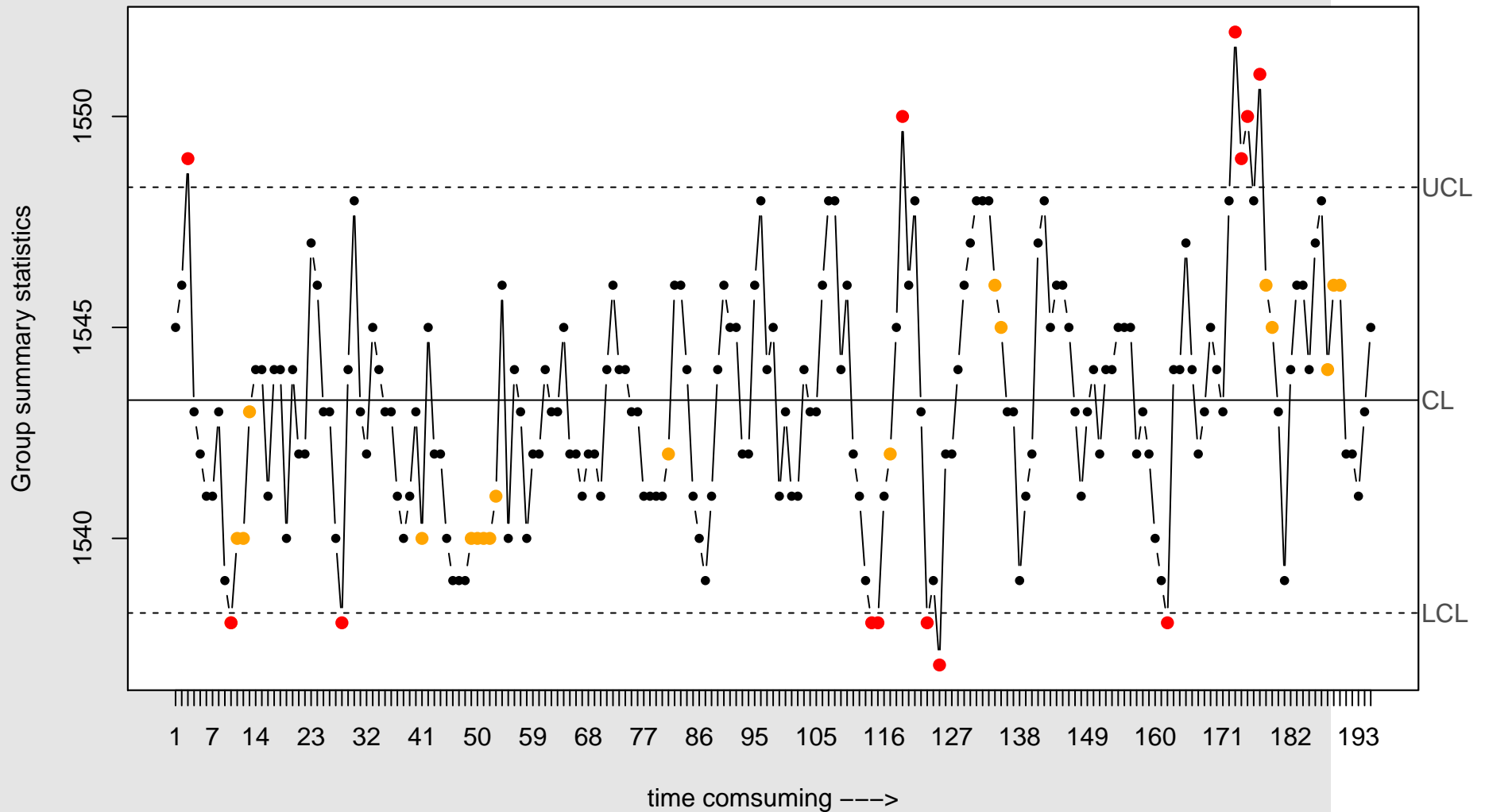
LCL = 1534.981

UCL = 1546.168

Number beyond limits = 7

Number violating runs = 23

12th column point of this product



Number of groups = 195

Center = 1543.277

StdDev = 1.681655

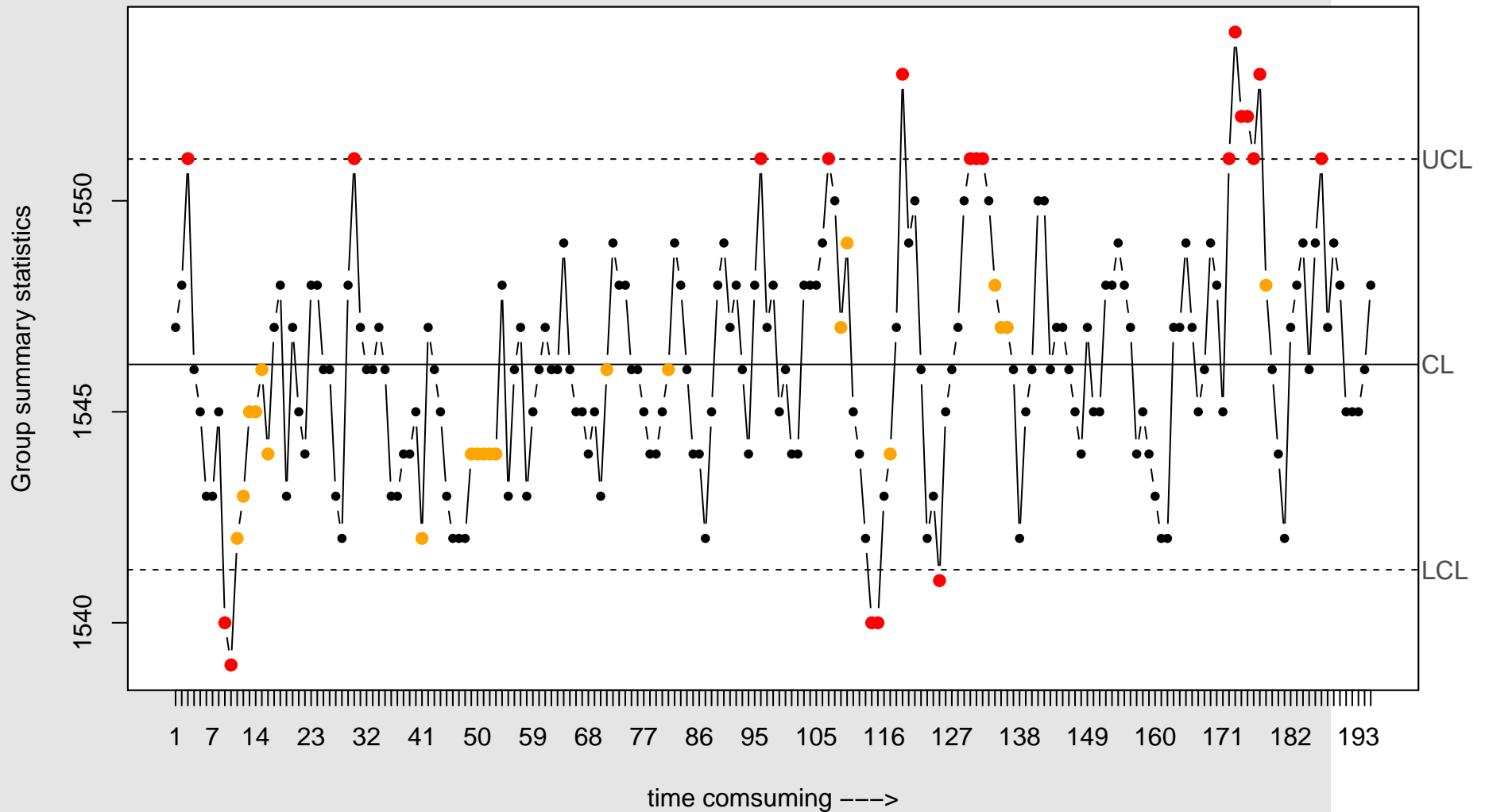
LCL = 1538.232

UCL = 1548.322

Number beyond limits = 13

Number violating runs = 19

13th column point of this product



Number of groups = 195

Center = 1546.123

StdDev = 1.622249

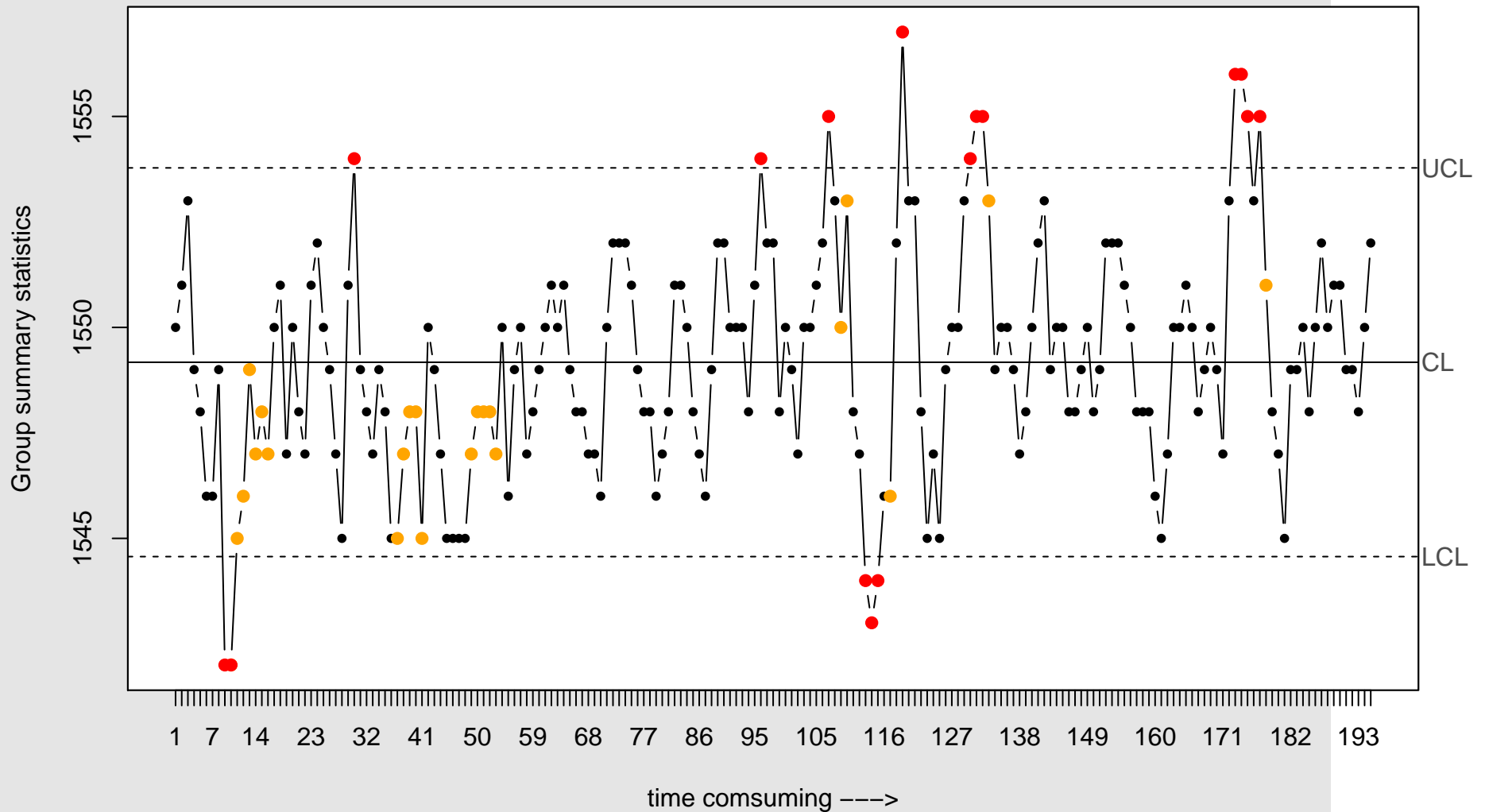
LCL = 1541.256

UCL = 1550.99

Number beyond limits = 20

Number violating runs = 22

14th column point of this product



Number of groups = 195

Center = 1549.174

StdDev = 1.535424

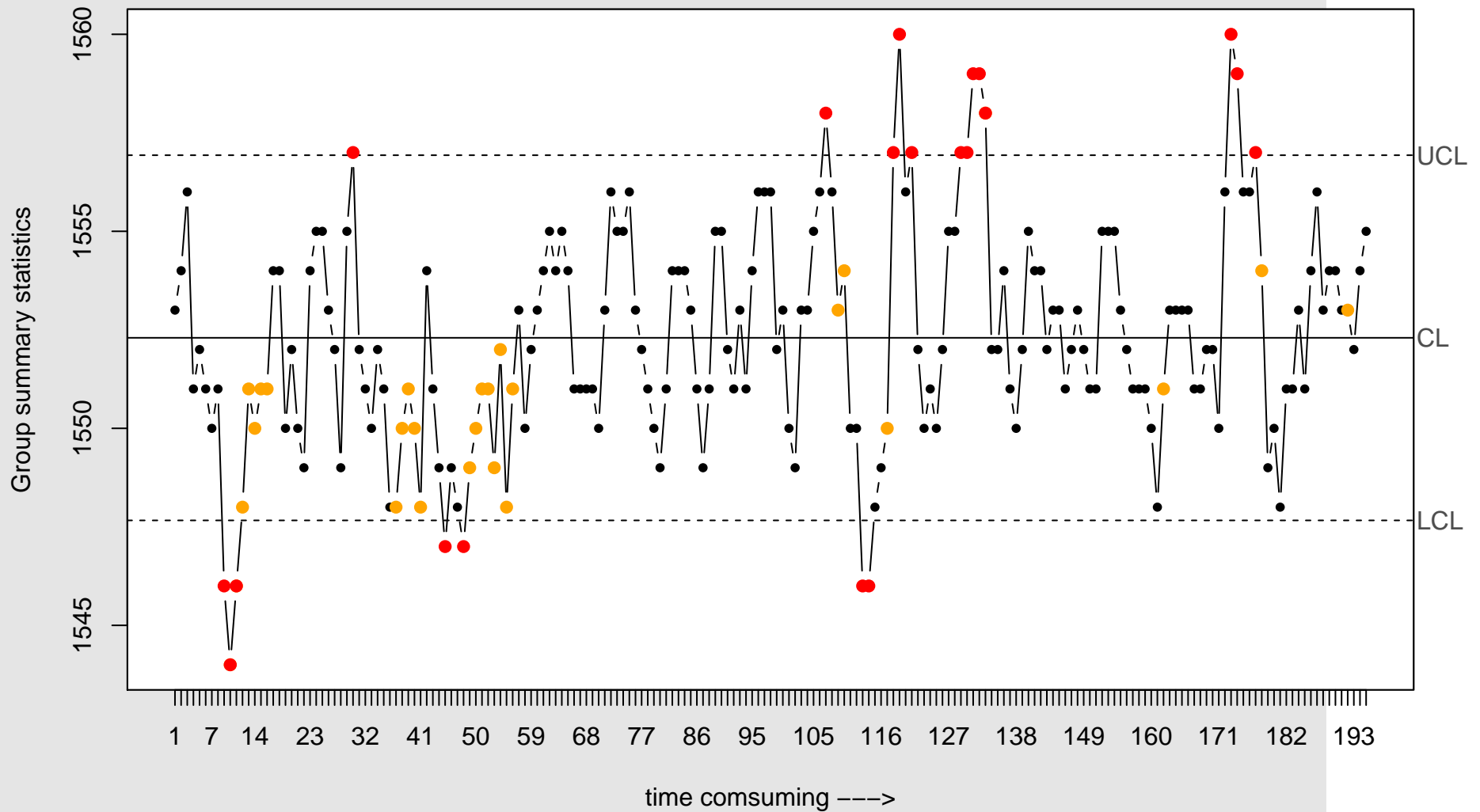
LCL = 1544.568

UCL = 1553.781

Number beyond limits = 16

Number violating runs = 22

15th column point of this product



Number of groups = 195

Center = 1552.297

StdDev = 1.544564

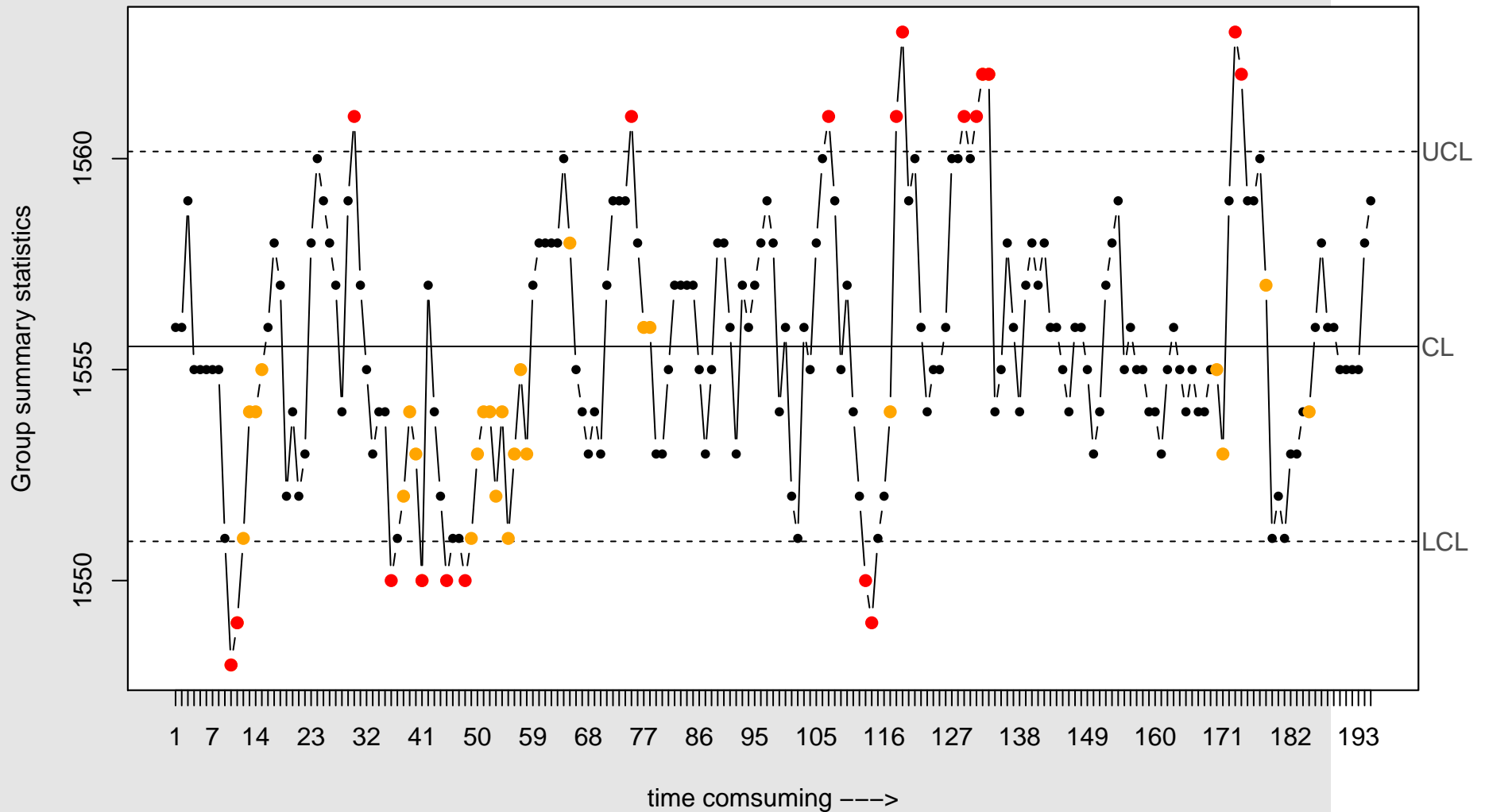
LCL = 1547.664

UCL = 1556.931

Number beyond limits = 20

Number violating runs = 27

16th column point of this product



Number of groups = 195

Center = 1555.549

StdDev = 1.539994

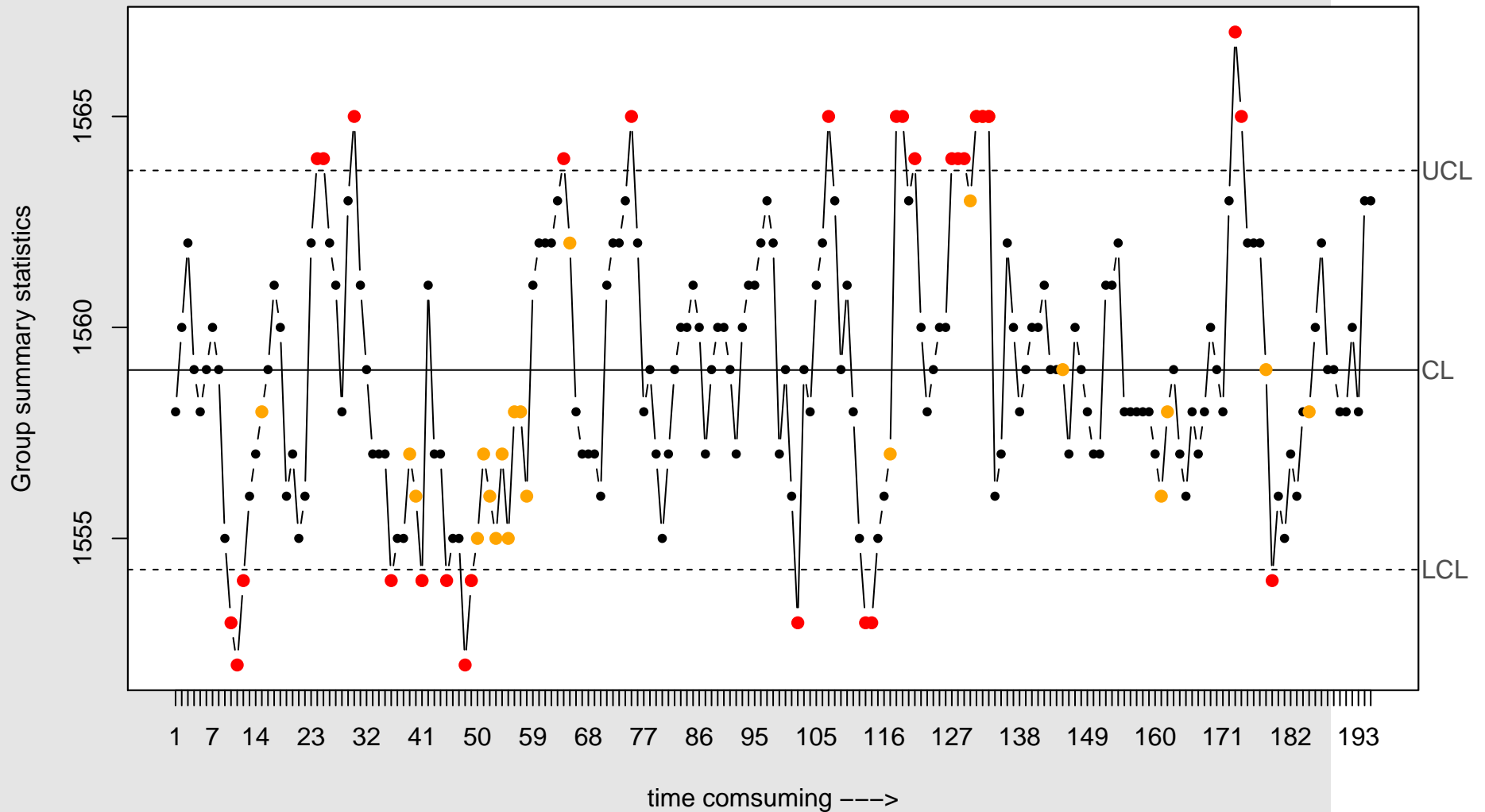
LCL = 1550.929

UCL = 1560.169

Number beyond limits = 19

Number violating runs = 30

17th column point of this product



Number of groups = 195

Center = 1558.99

StdDev = 1.576552

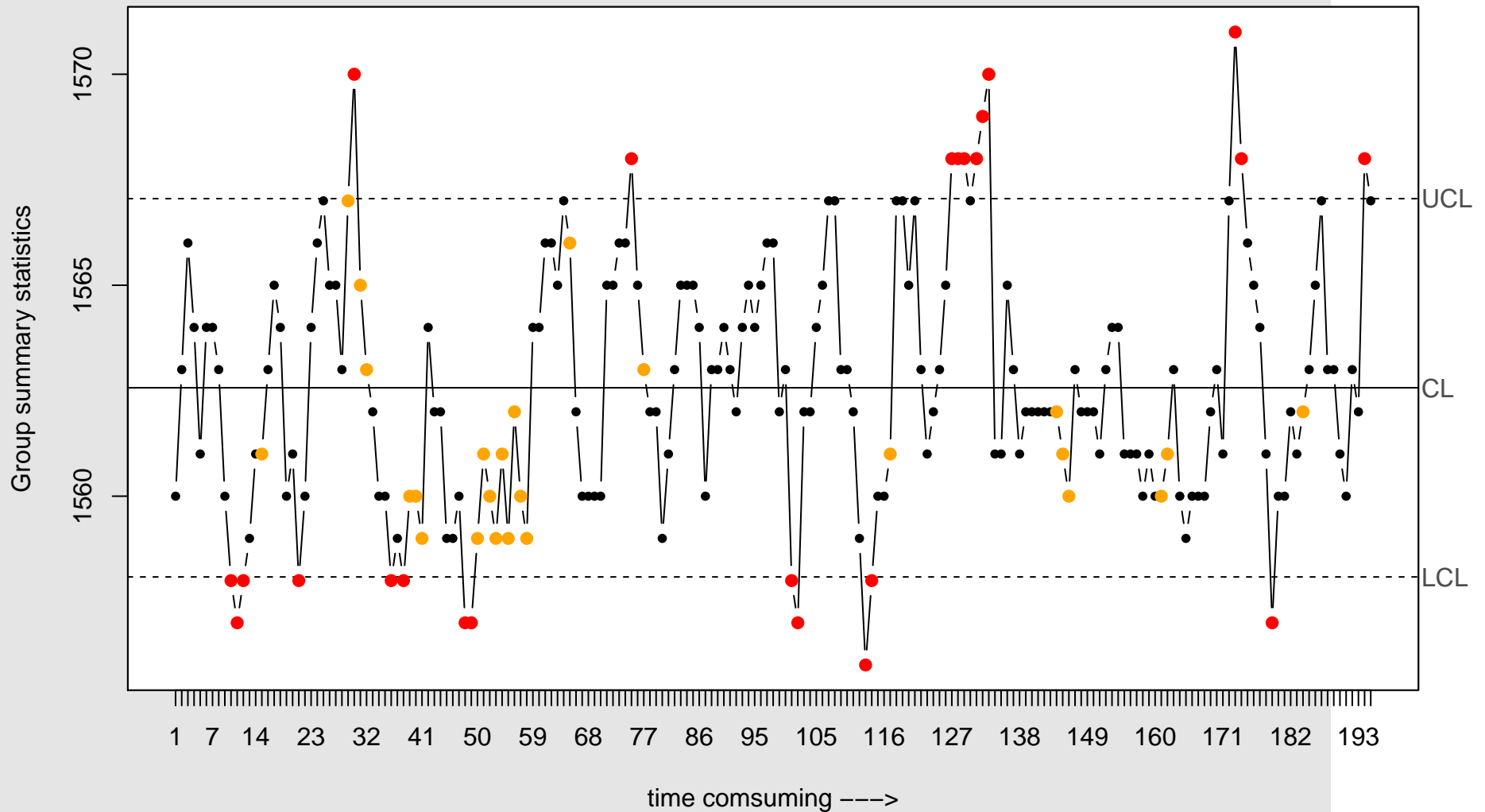
LCL = 1554.26

UCL = 1563.719

Number beyond limits = 29

Number violating runs = 25

18th column point of this product



Number of groups = 195

Center = 1562.569

StdDev = 1.494297

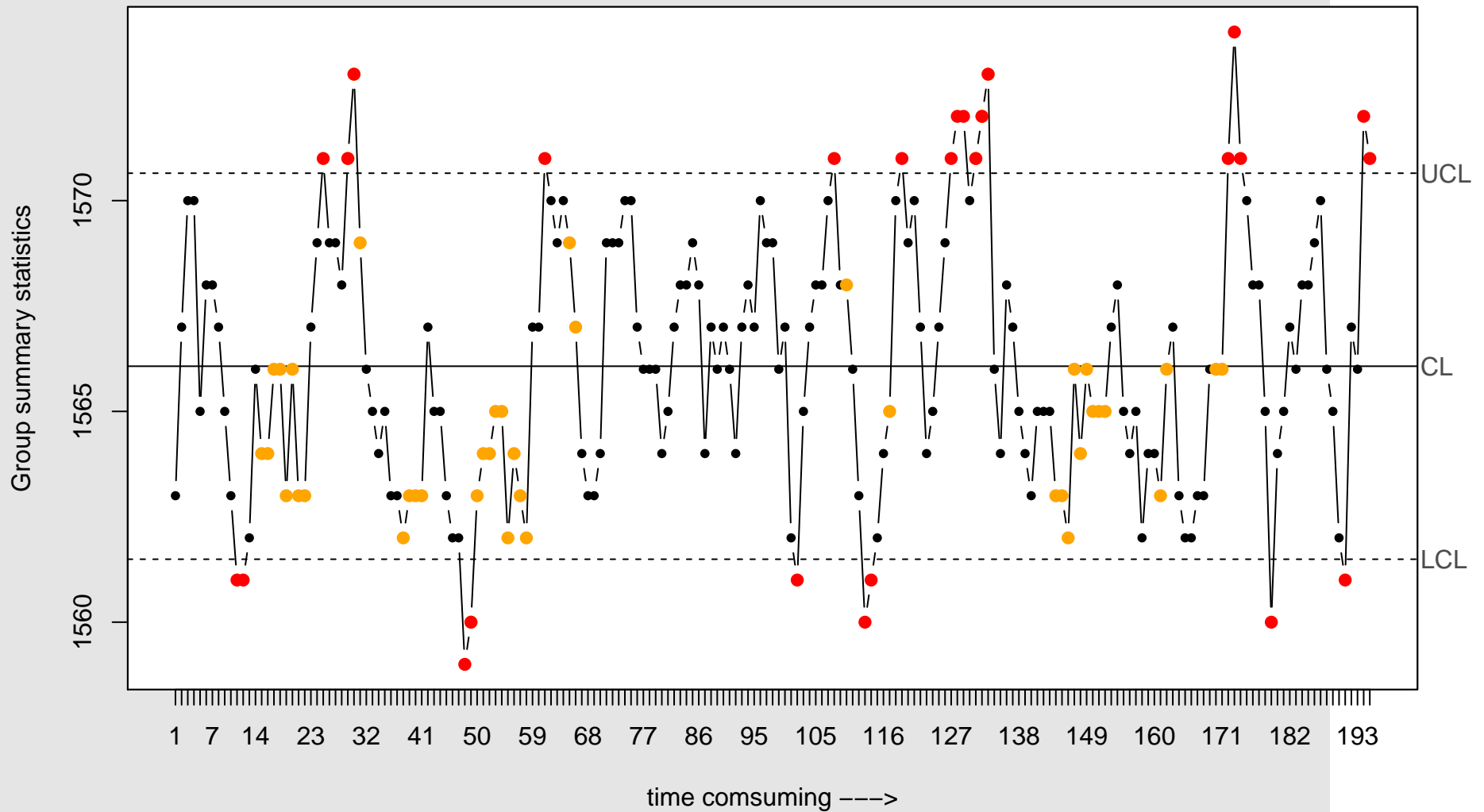
LCL = 1558.086

UCL = 1567.052

Number beyond limits = 24

Number violating runs = 30

19th column point of this product

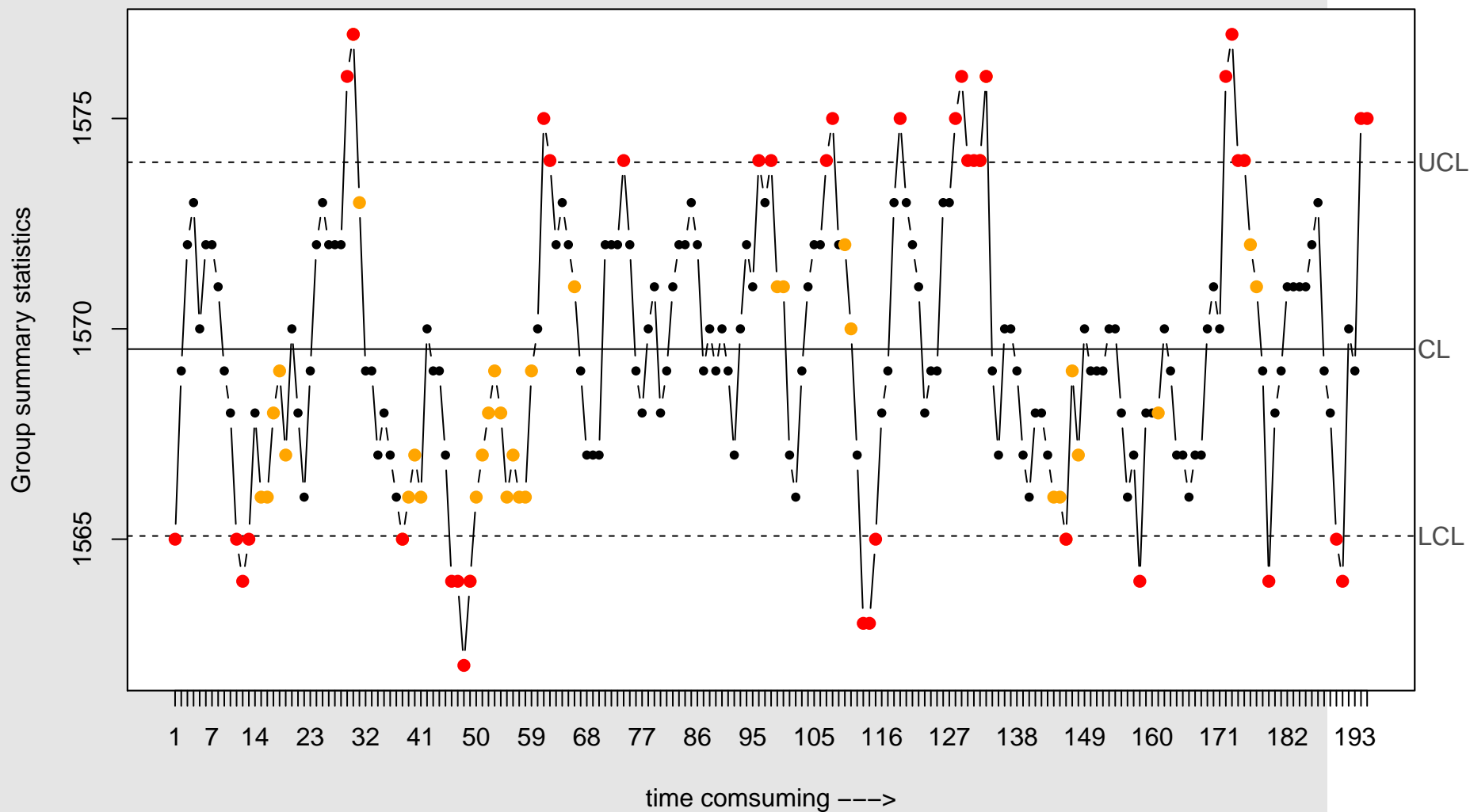


Number of groups = 195
 Center = 1566.072
 StdDev = 1.526285

LCL = 1561.493
 UCL = 1570.651

Number beyond limits = 26
 Number violating runs = 45

20th column point of this product



Number of groups = 195

Center = 1569.518

StdDev = 1.480588

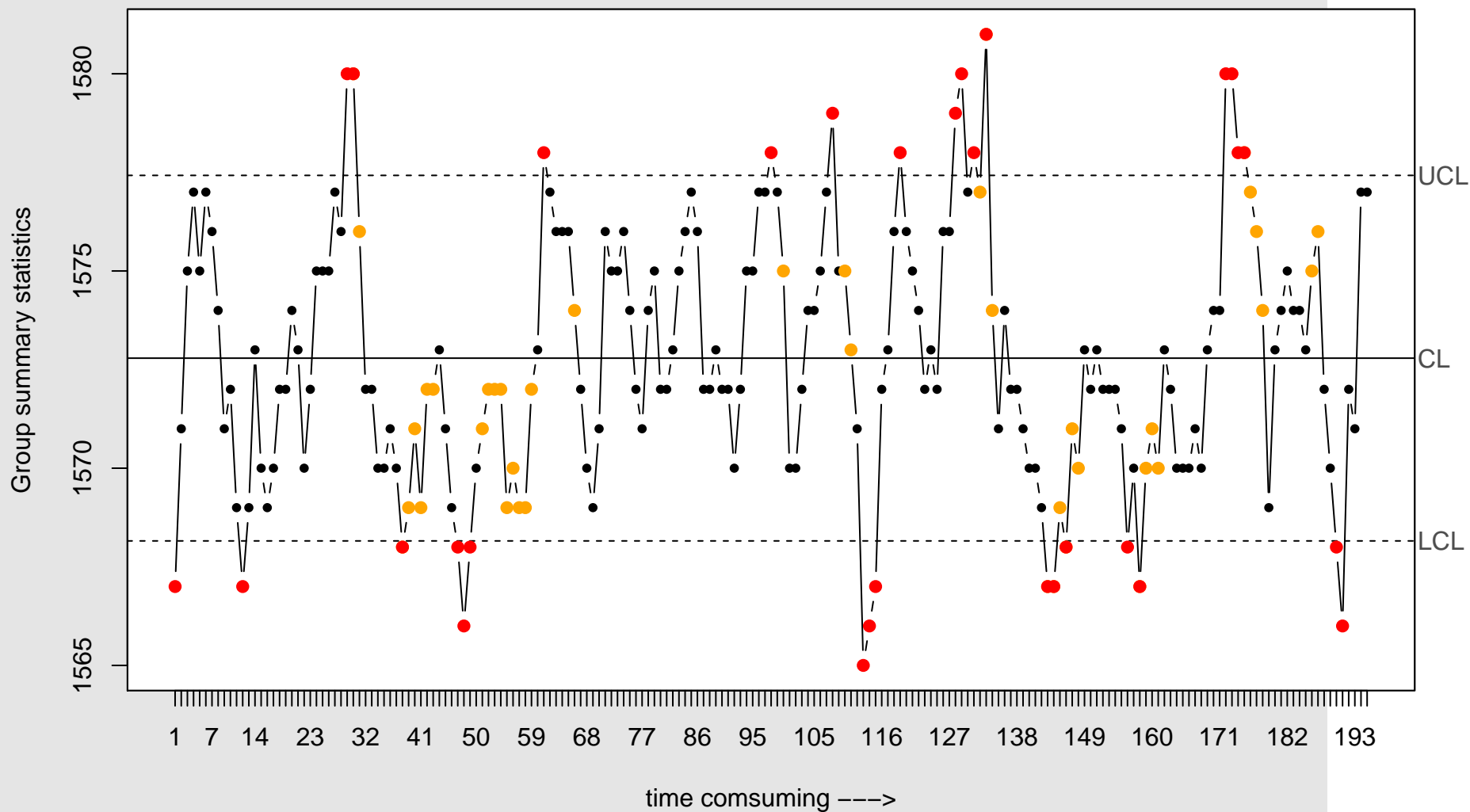
LCL = 1565.076

UCL = 1573.96

Number beyond limits = 39

Number violating runs = 38

21th column point of this product



Number of groups = 195

Center = 1572.79

StdDev = 1.544564

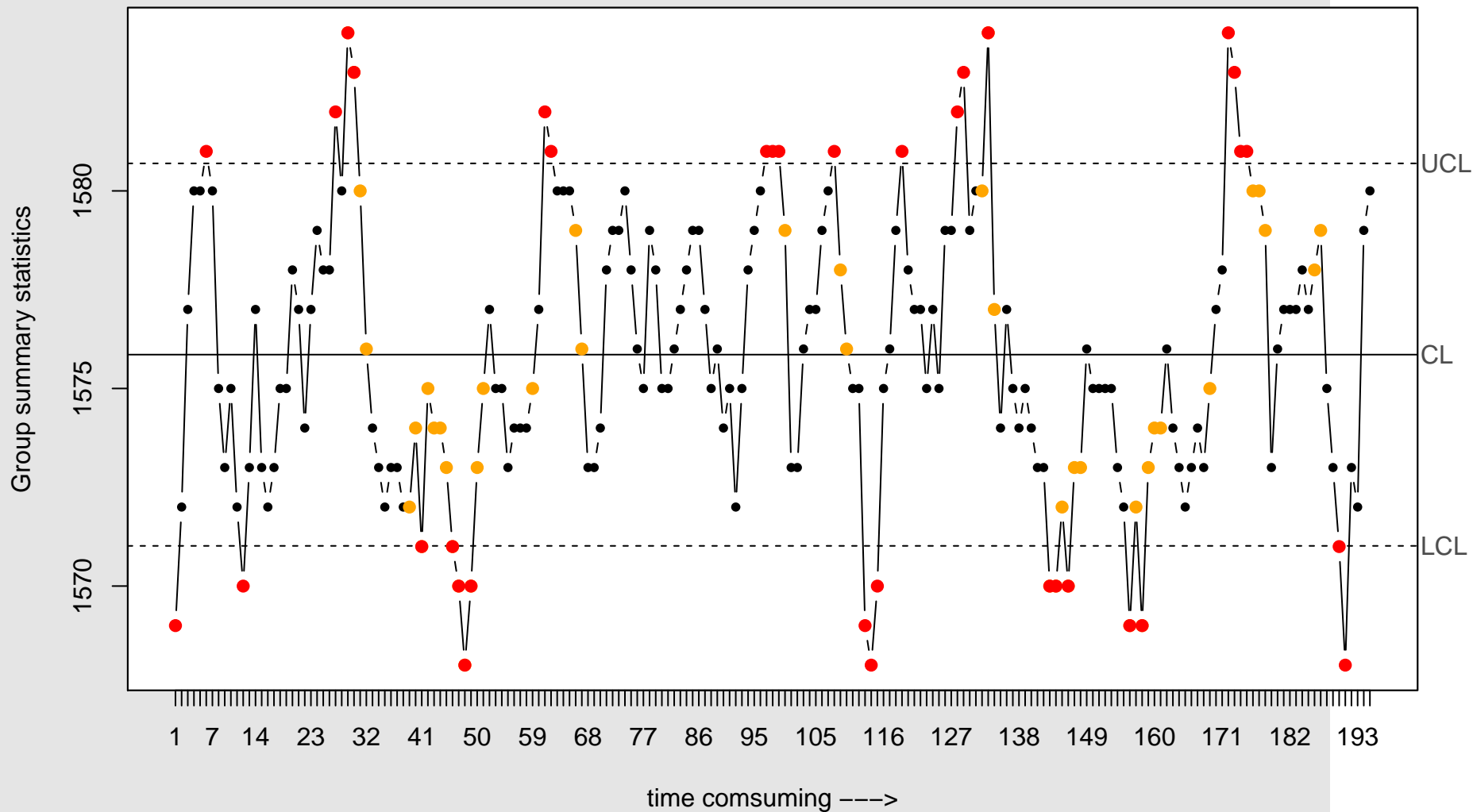
LCL = 1568.156

UCL = 1577.423

Number beyond limits = 30

Number violating runs = 40

22th column point of this product

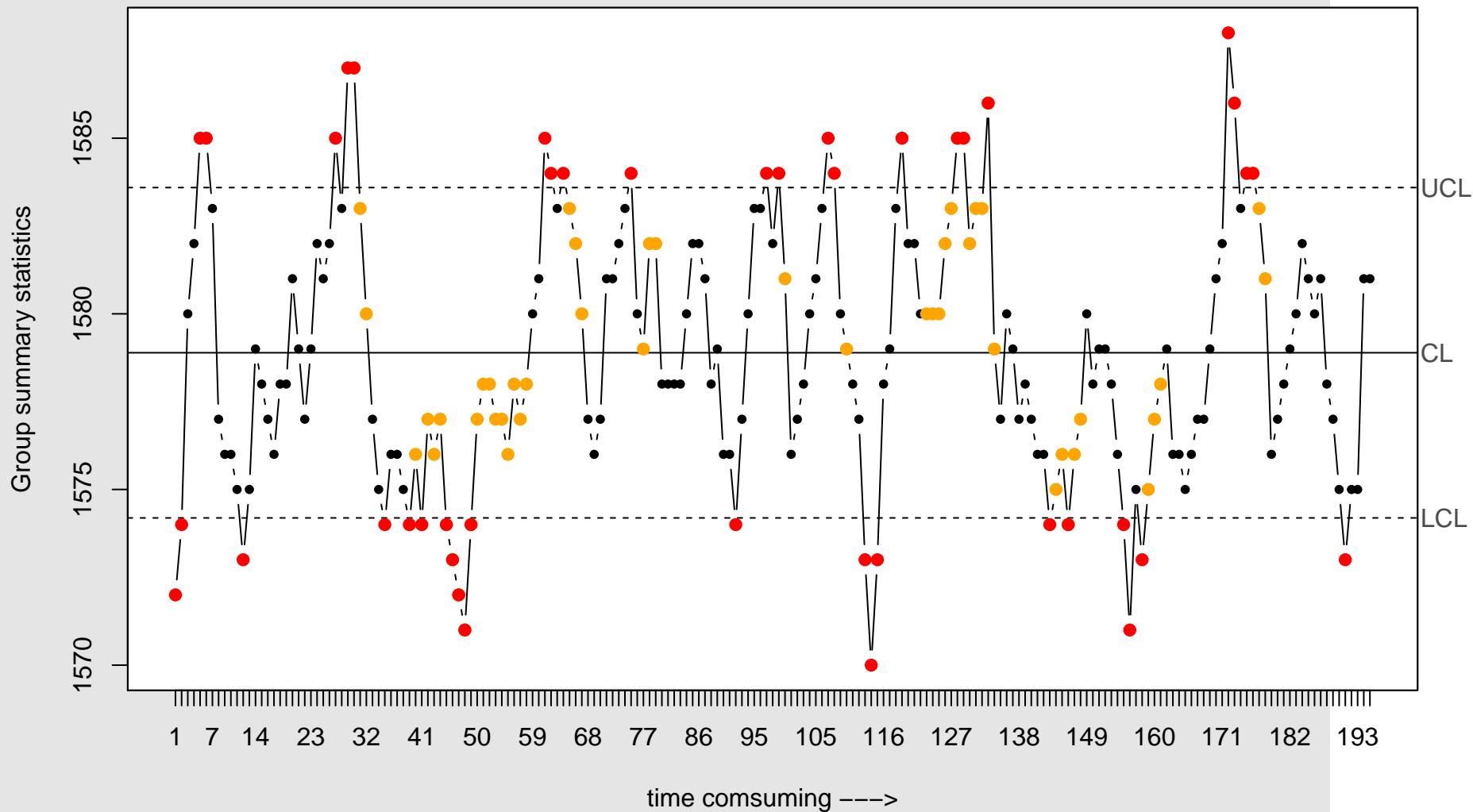


Number of groups = 195
 Center = 1575.856
 StdDev = 1.61311

LCL = 1571.017
 UCL = 1580.696

Number beyond limits = 35
 Number violating runs = 44

23th column point of this product



Number of groups = 195

Center = 1578.892

StdDev = 1.567412

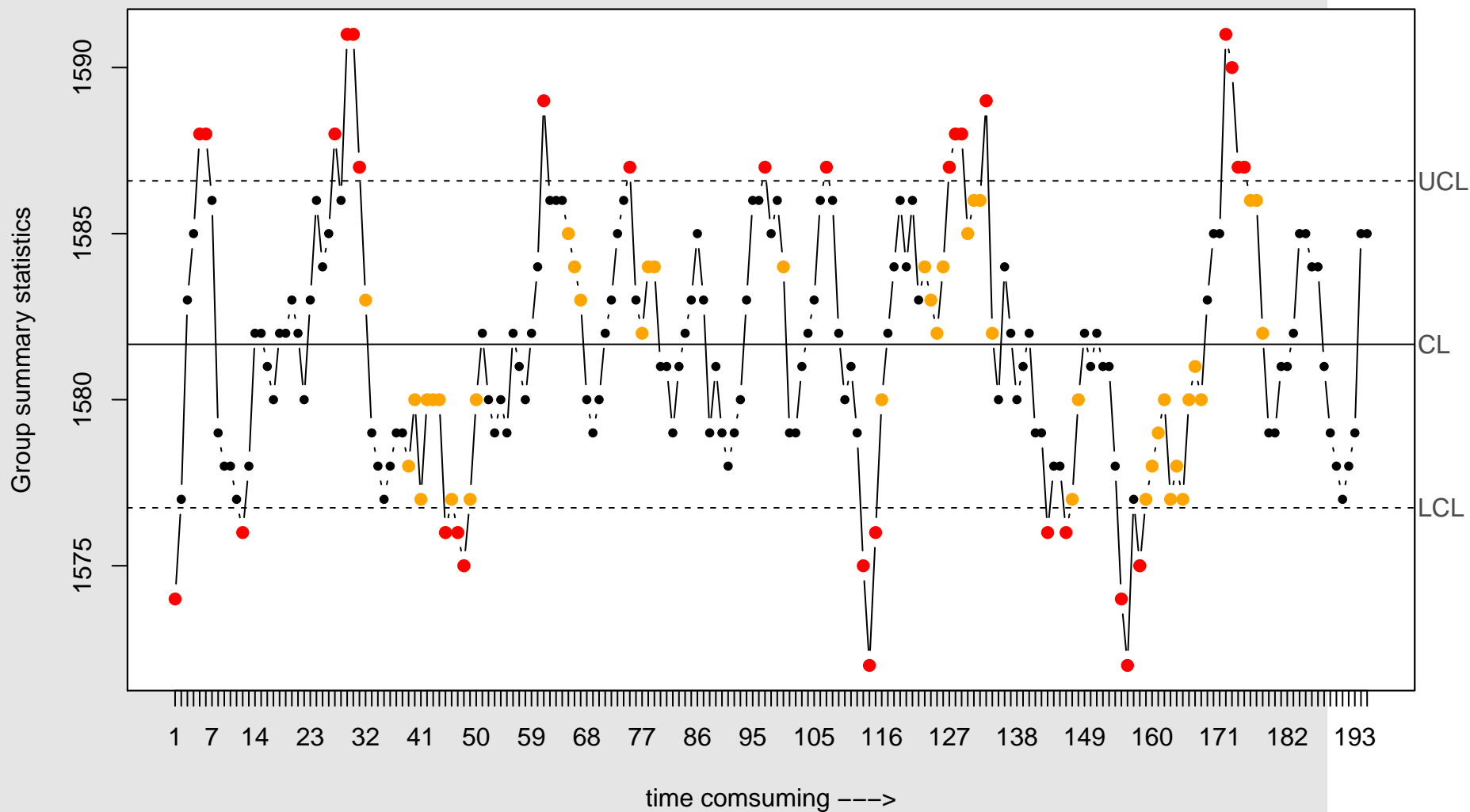
LCL = 1574.19

UCL = 1583.595

Number beyond limits = 42

Number violating runs = 56

24th column point of this product



Number of groups = 195

Center = 1581.667

StdDev = 1.640528

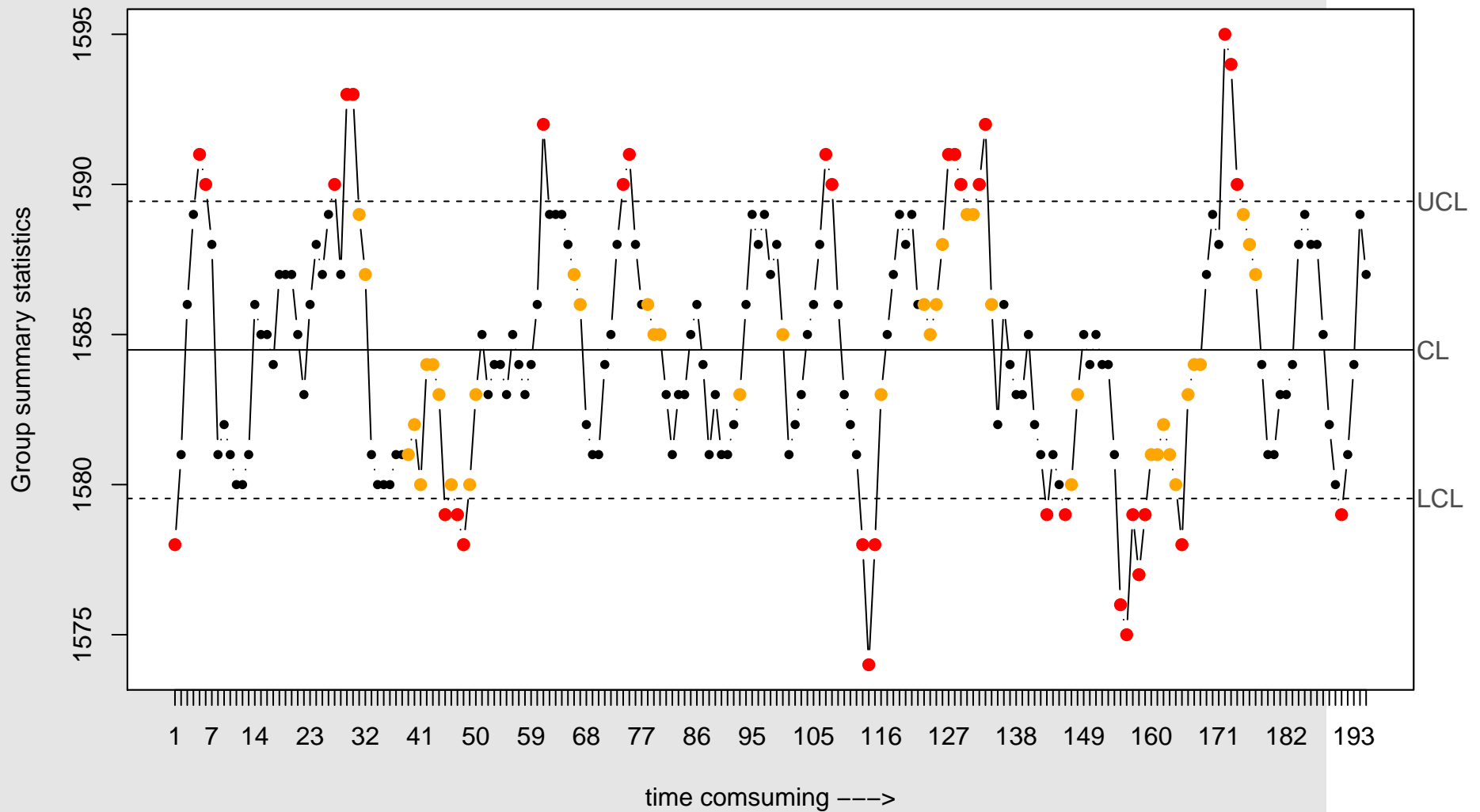
LCL = 1576.745

UCL = 1586.588

Number beyond limits = 31

Number violating runs = 53

25th column point of this product

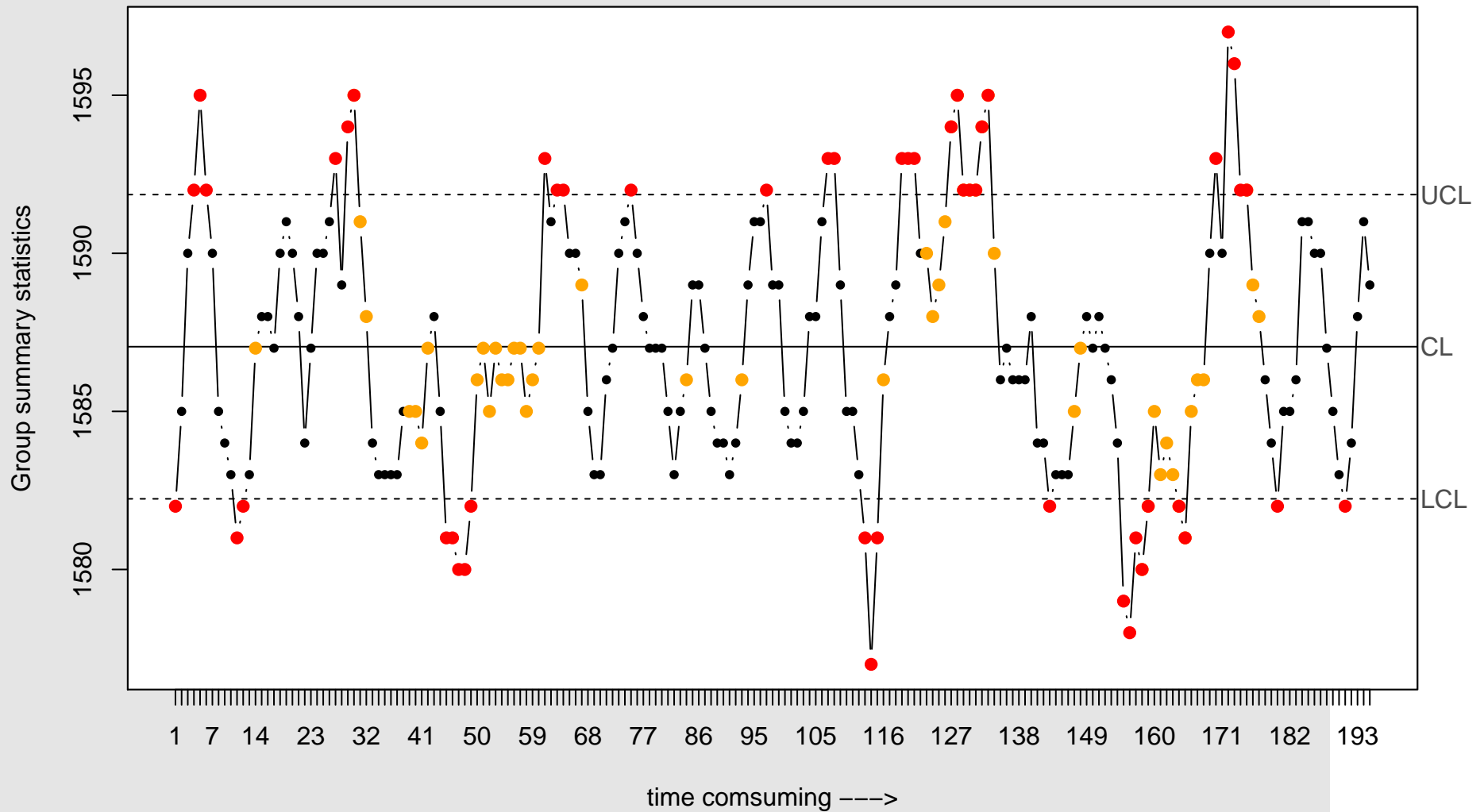


Number of groups = 195
 Center = 1584.487
 StdDev = 1.649667

LCL = 1579.538
 UCL = 1589.436

Number beyond limits = 34
 Number violating runs = 52

26th column point of this product

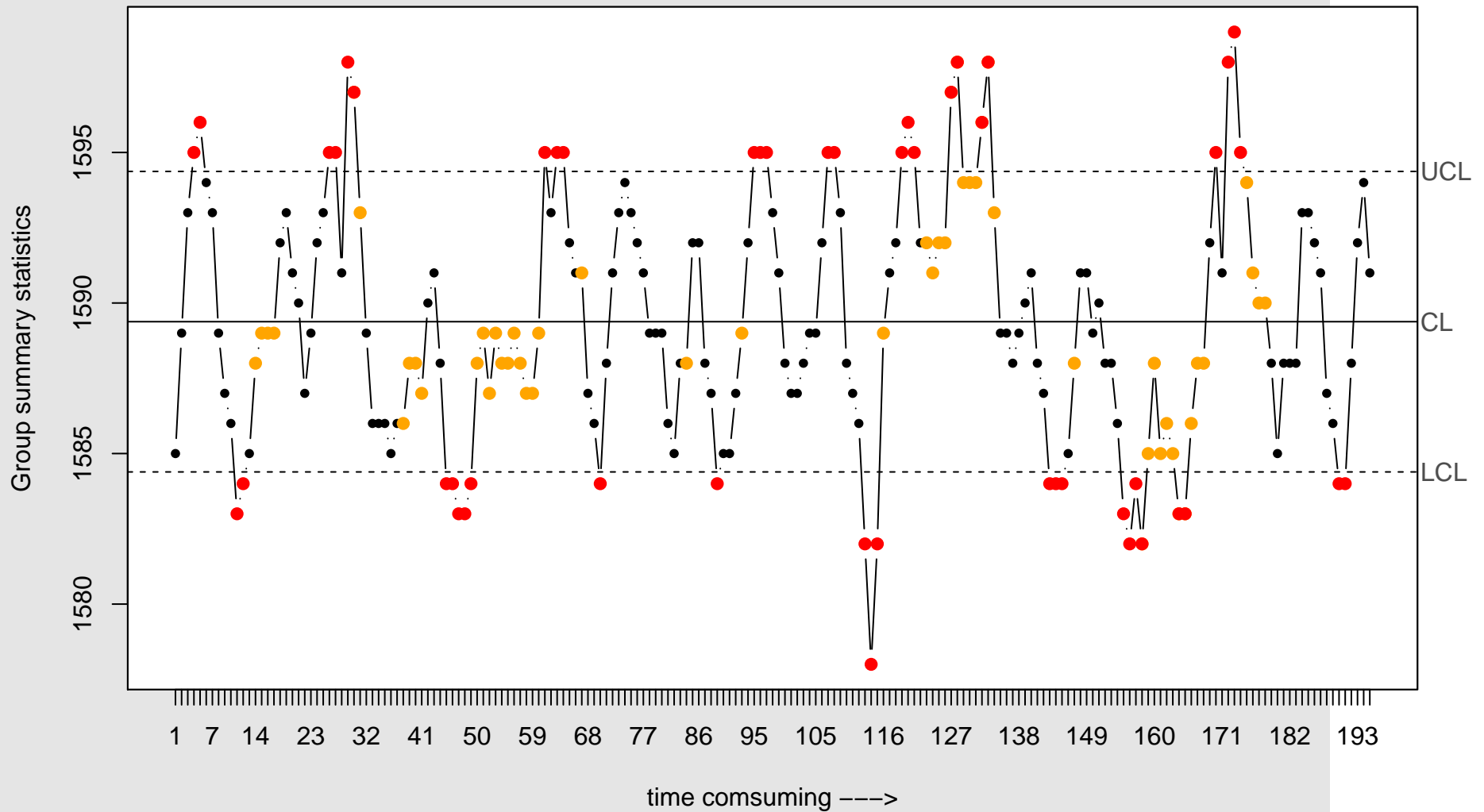


Number of groups = 195
 Center = 1587.046
 StdDev = 1.60397

LCL = 1582.234
 UCL = 1591.858

Number beyond limits = 49
 Number violating runs = 51

27th column point of this product



Number of groups = 195

Center = 1589.379

StdDev = 1.663376

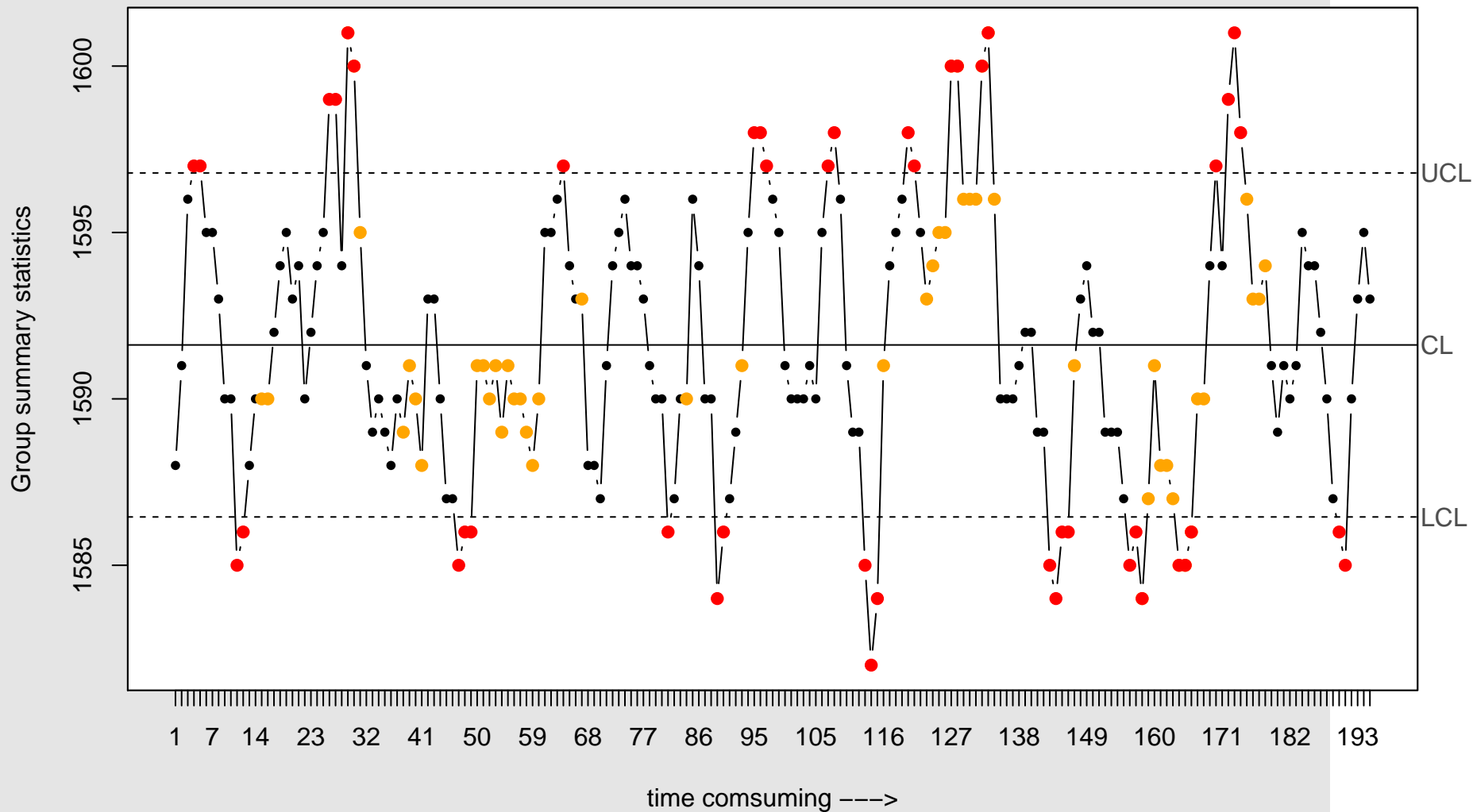
LCL = 1584.389

UCL = 1594.37

Number beyond limits = 48

Number violating runs = 53

28th column point of this product



Number of groups = 195

Center = 1591.621

StdDev = 1.722783

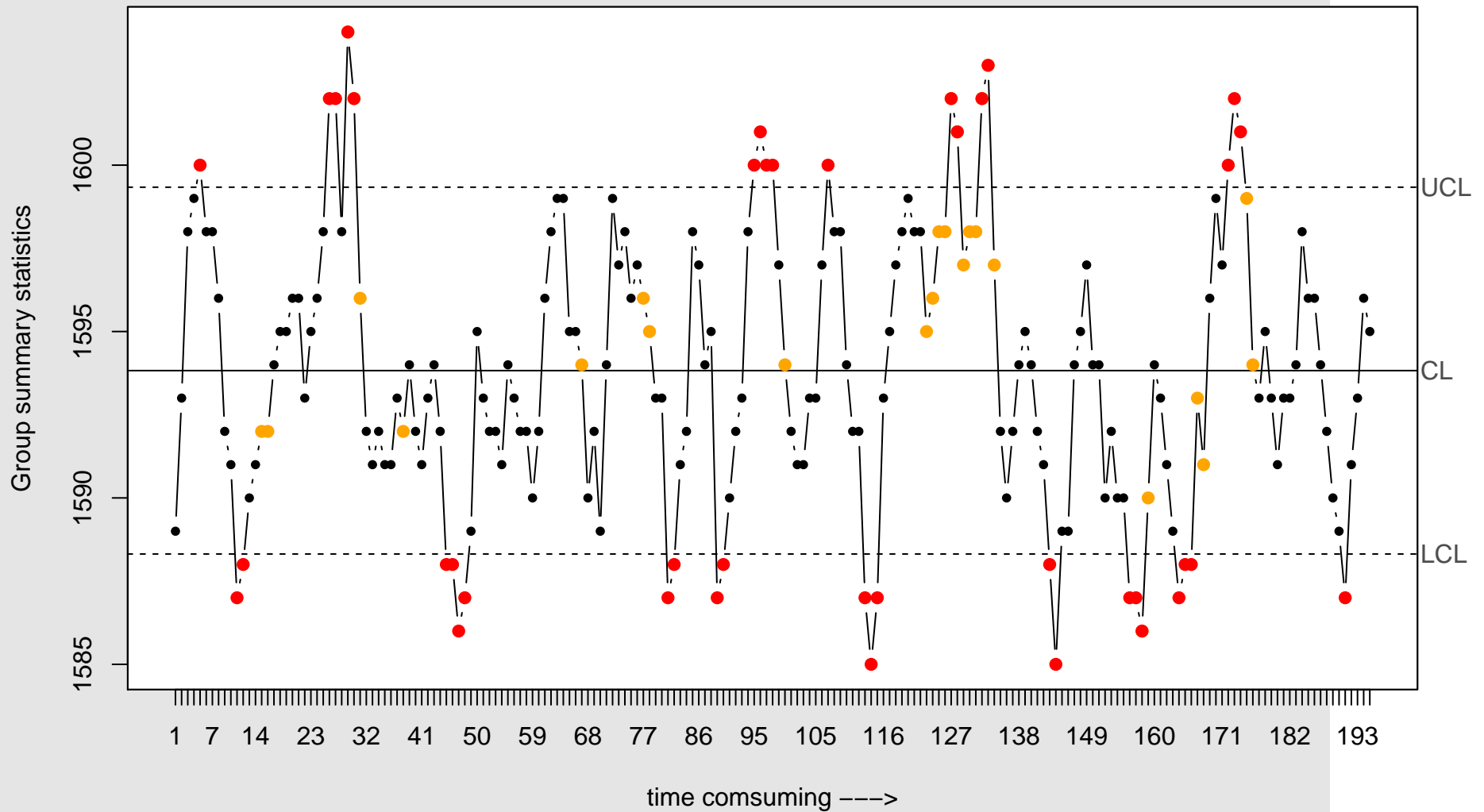
LCL = 1586.452

UCL = 1596.789

Number beyond limits = 45

Number violating runs = 52

29th column point of this product



Number of groups = 195

Center = 1593.826

StdDev = 1.837026

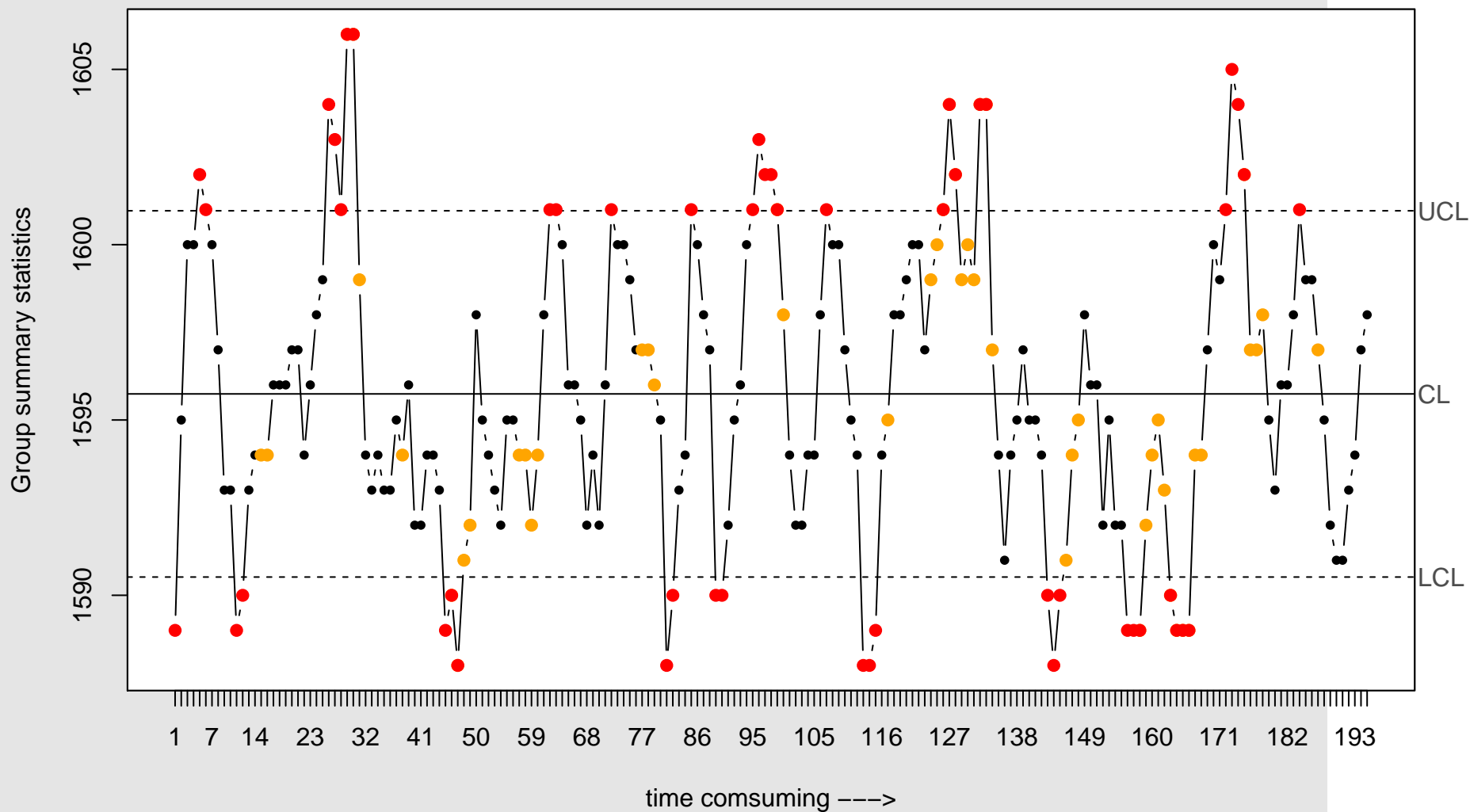
LCL = 1588.315

UCL = 1599.337

Number beyond limits = 39

Number violating runs = 28

30th column point of this product



Number of groups = 195

Center = 1595.744

StdDev = 1.741062

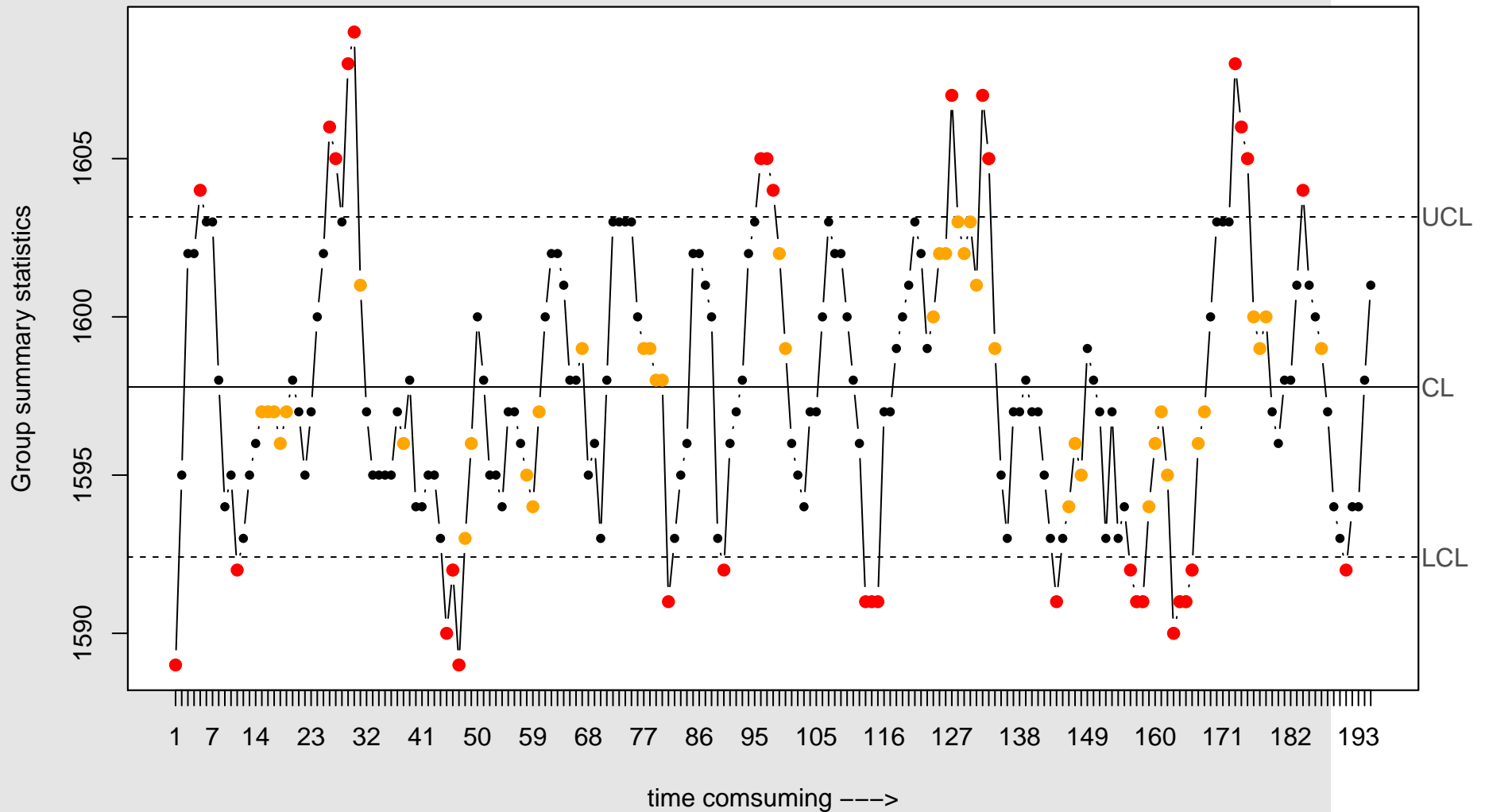
LCL = 1590.52

UCL = 1600.967

Number beyond limits = 50

Number violating runs = 50

31th column point of this product



Number of groups = 195

Center = 1597.785

StdDev = 1.791329

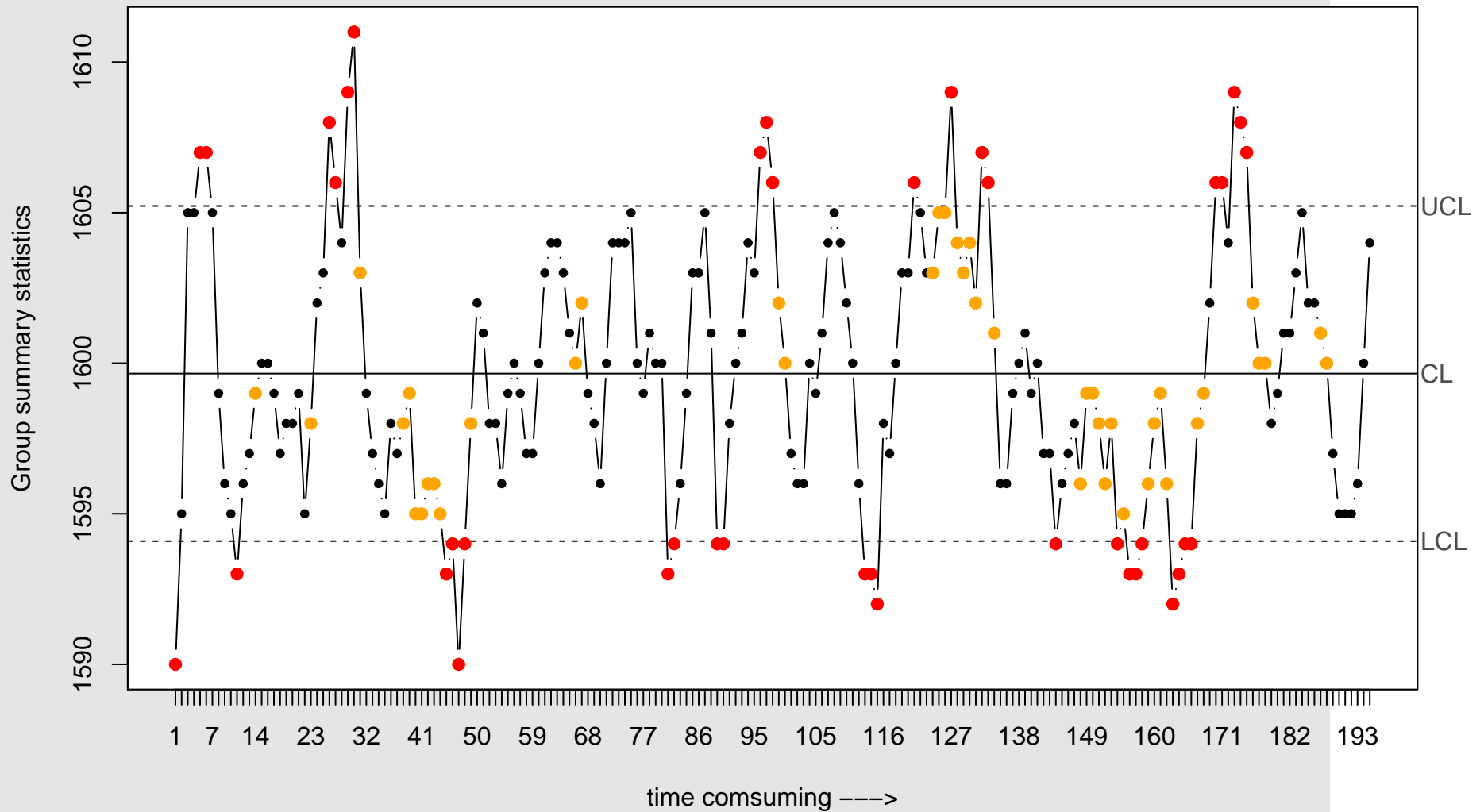
LCL = 1592.411

UCL = 1603.159

Number beyond limits = 34

Number violating runs = 53

32th column point of this product



Number of groups = 195

Center = 1599.656

StdDev = 1.855305

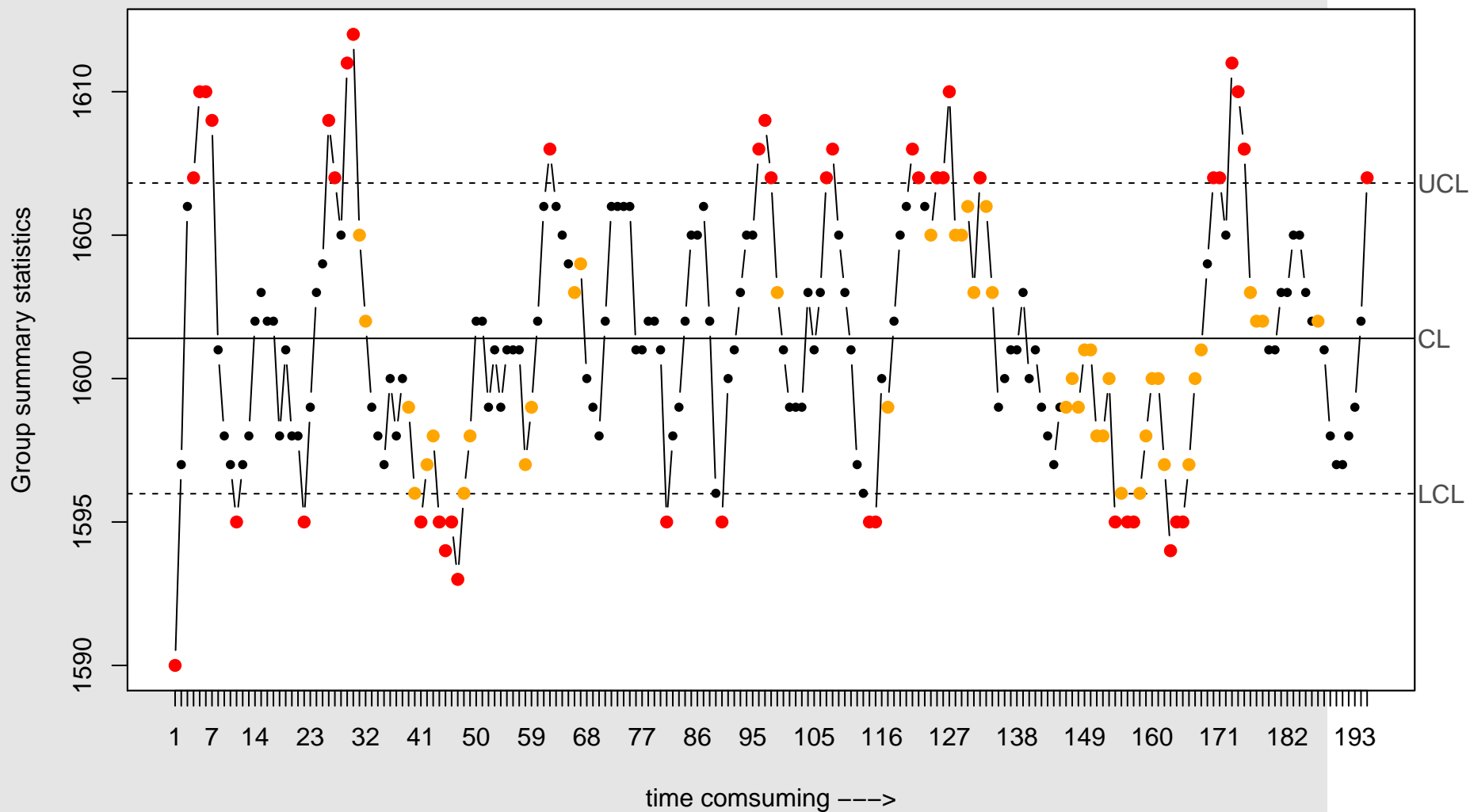
LCL = 1594.09

UCL = 1605.222

Number beyond limits = 40

Number violating runs = 59

33th column point of this product



Number of groups = 195

Center = 1601.4

StdDev = 1.805038

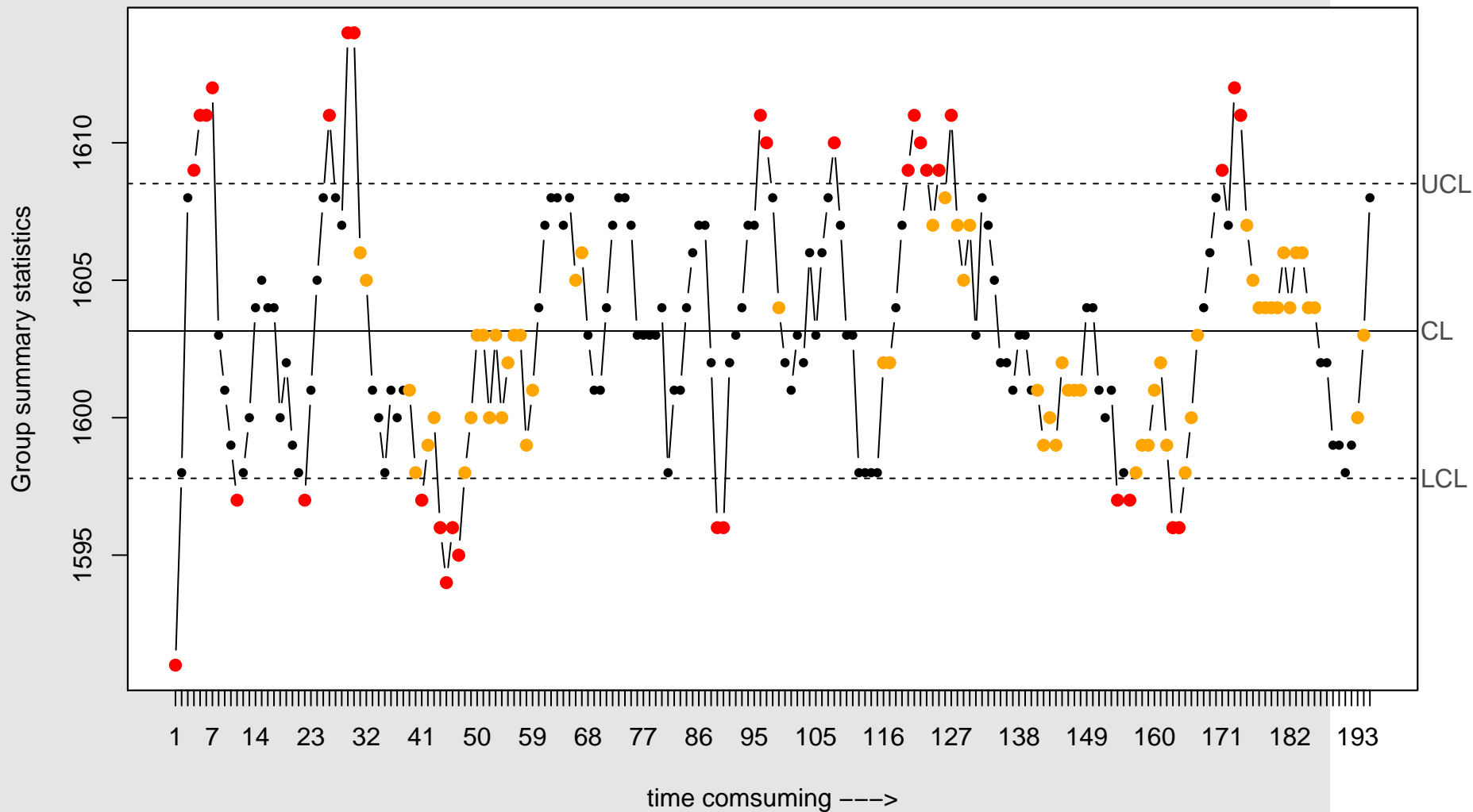
LCL = 1595.985

UCL = 1606.815

Number beyond limits = 44

Number violating runs = 59

34th column point of this product



Number of groups = 195

Center = 1603.154

StdDev = 1.786759

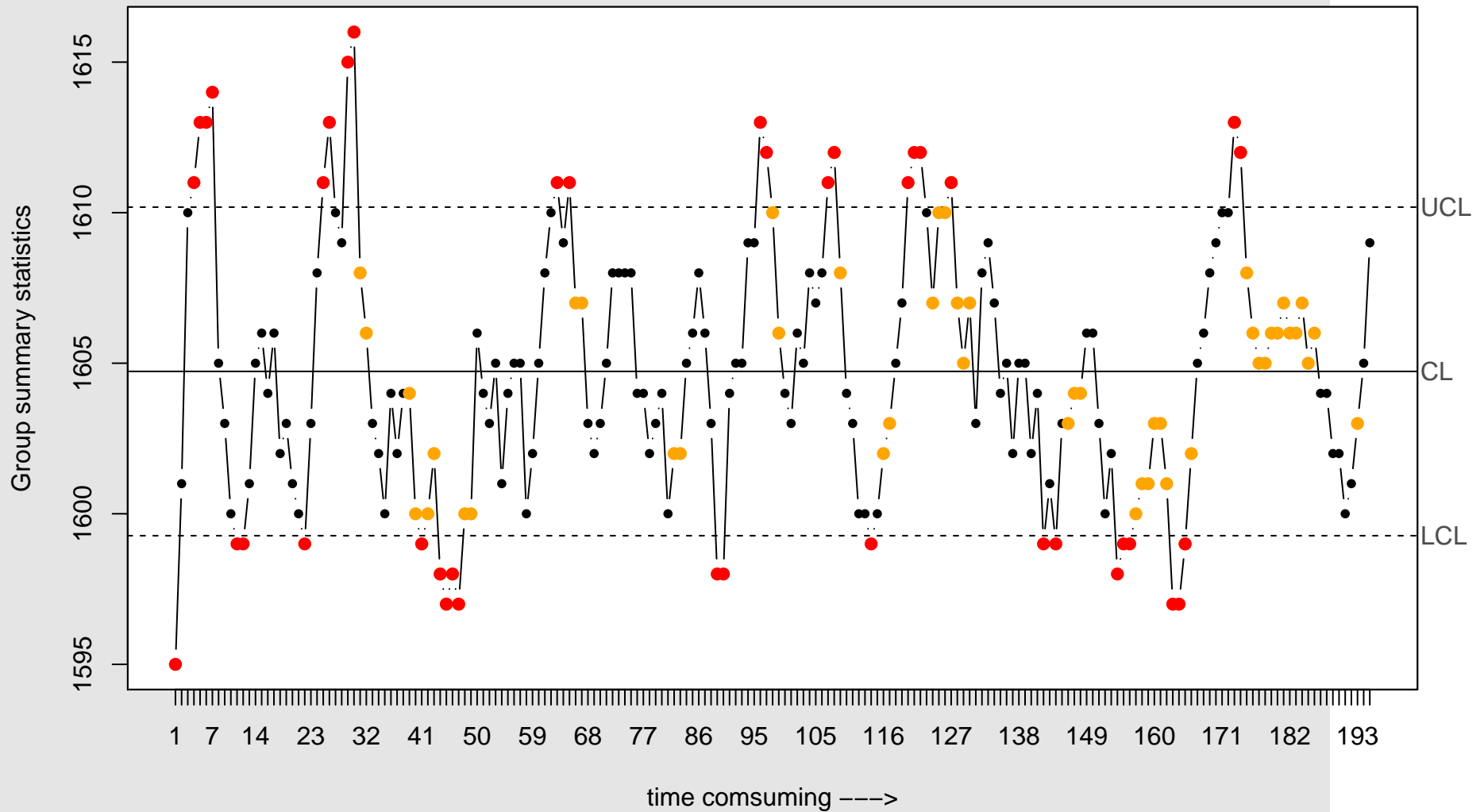
LCL = 1597.794

UCL = 1608.514

Number beyond limits = 33

Number violating runs = 70

35th column point of this product



Number of groups = 195

Center = 1604.728

StdDev = 1.818747

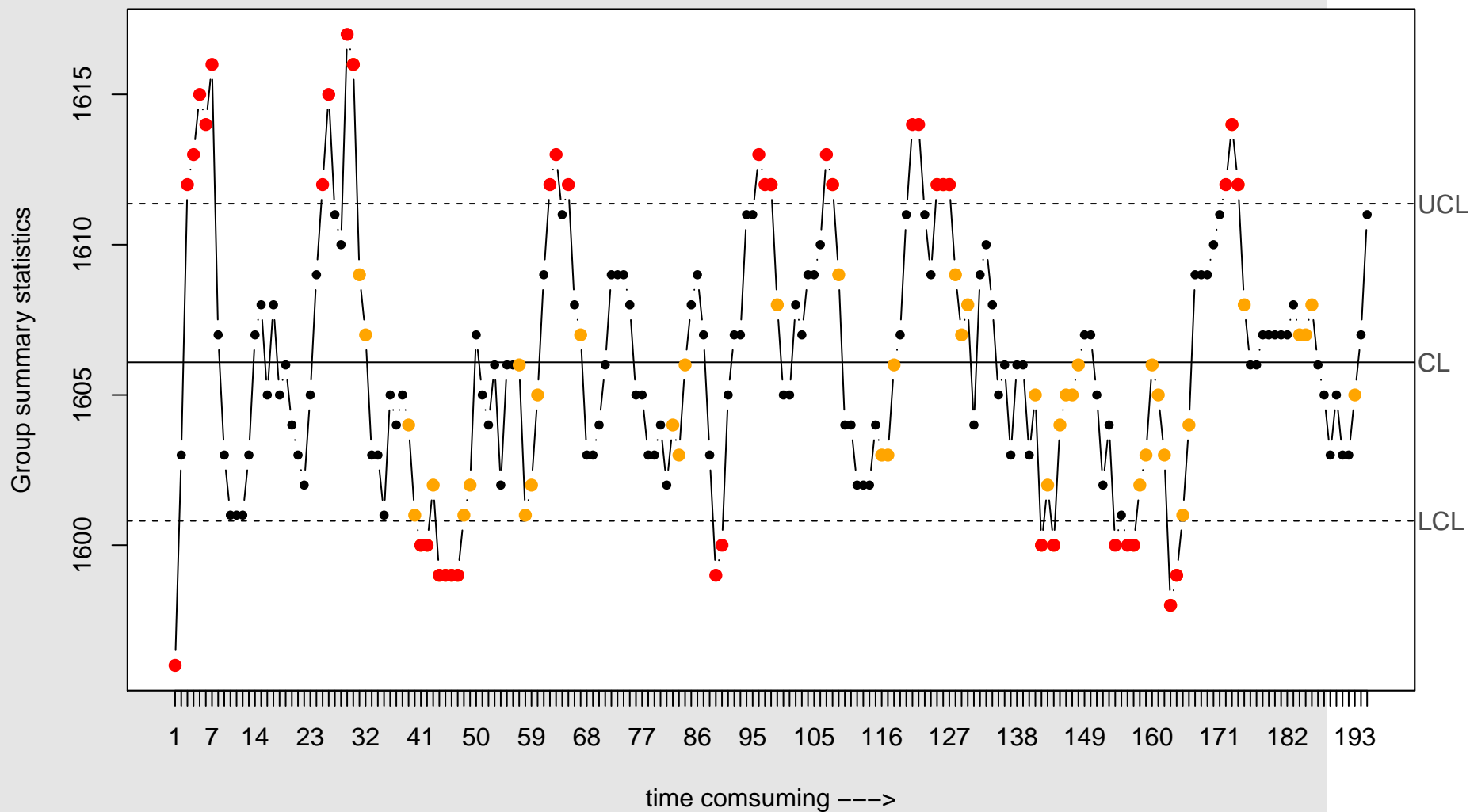
LCL = 1599.272

UCL = 1610.184

Number beyond limits = 40

Number violating runs = 59

36th column point of this product

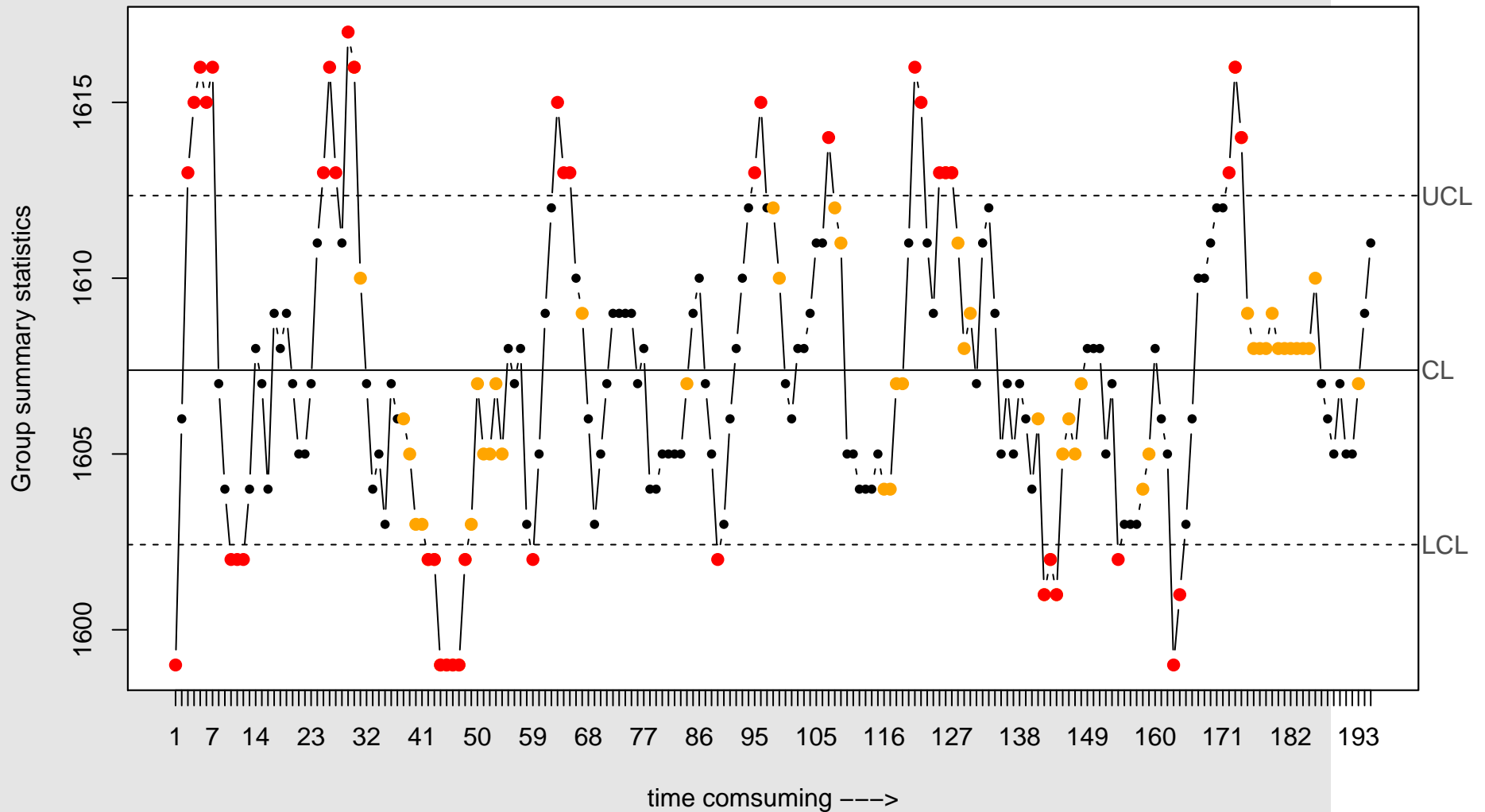


Number of groups = 195
 Center = 1606.087
 StdDev = 1.75934

LCL = 1600.809
 UCL = 1611.365

Number beyond limits = 41
 Number violating runs = 60

37th column point of this product



Number of groups = 195

Center = 1607.385

StdDev = 1.654237

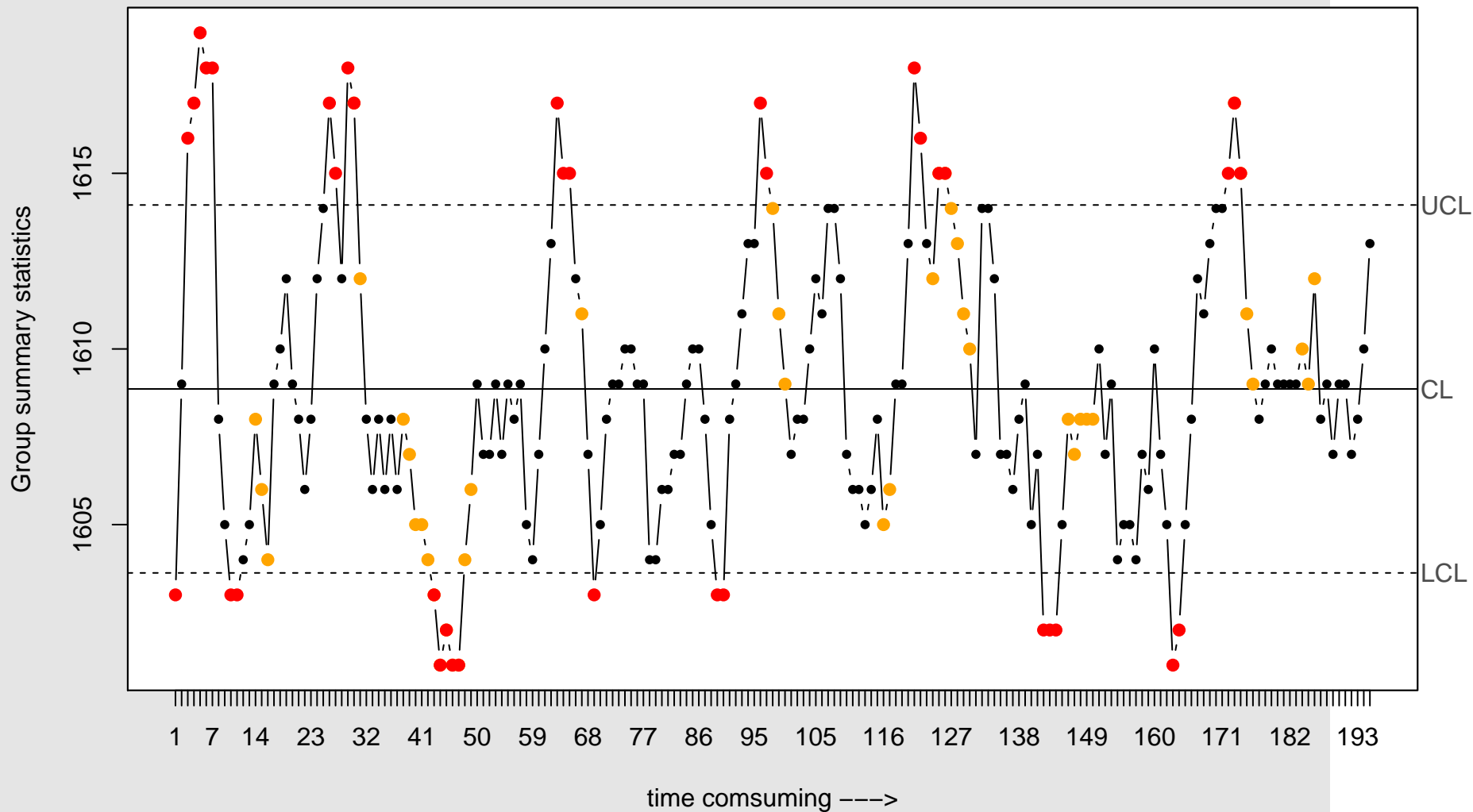
LCL = 1602.422

UCL = 1612.347

Number beyond limits = 43

Number violating runs = 59

38th column point of this product

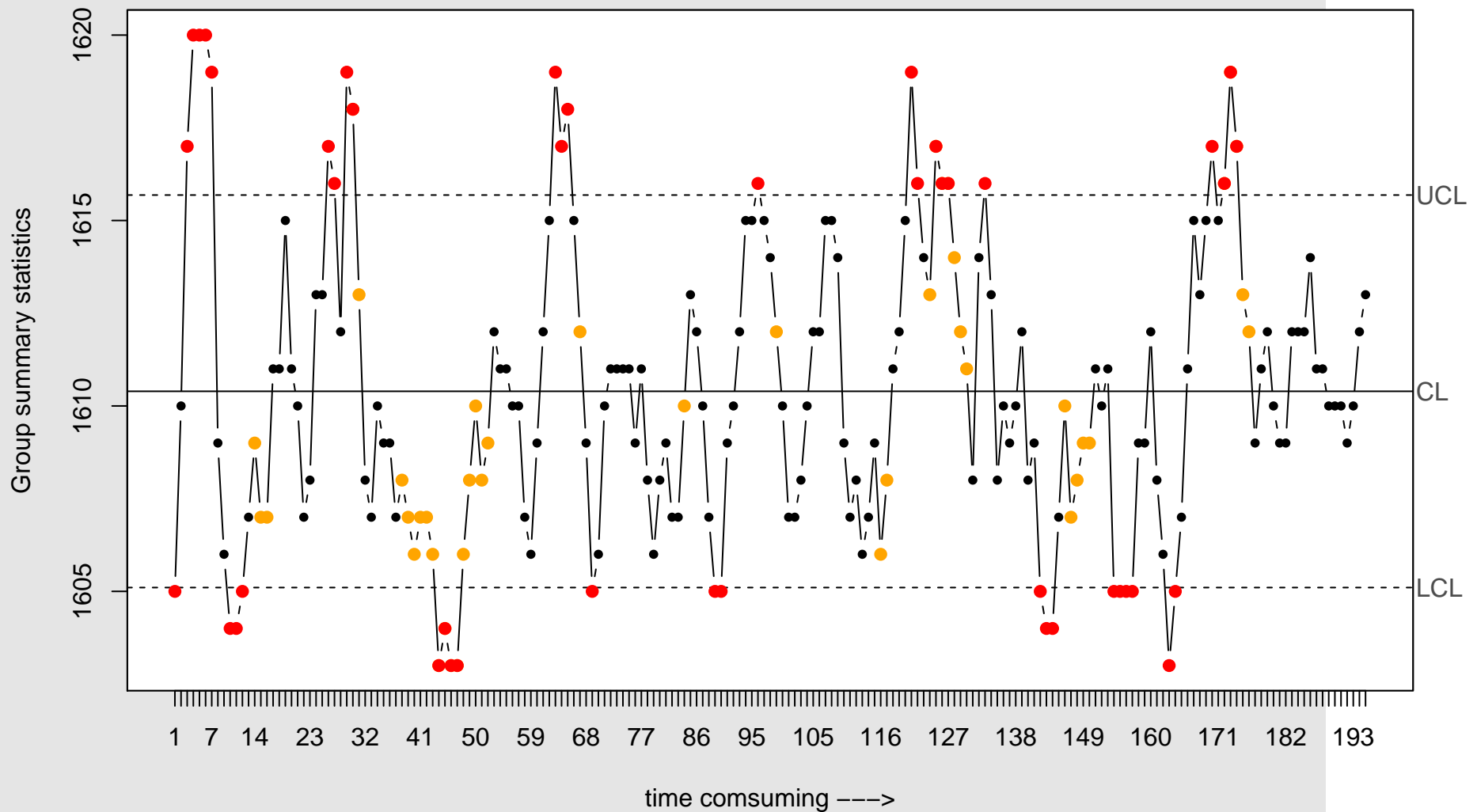


Number of groups = 195
 Center = 1608.862
 StdDev = 1.745631

LCL = 1603.625
 UCL = 1614.098

Number beyond limits = 37
 Number violating runs = 42

39th column point of this product

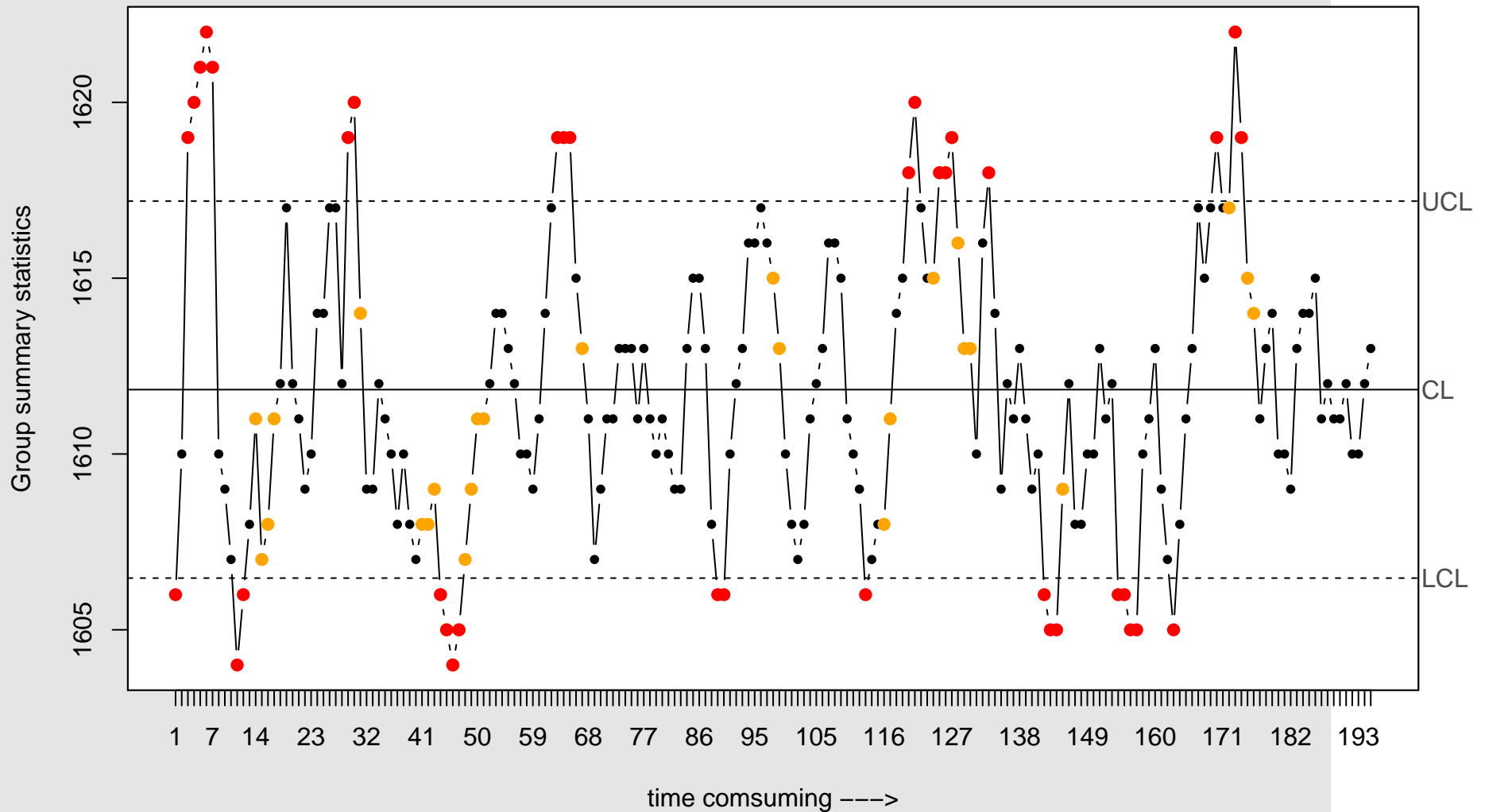


Number of groups = 195
 Center = 1610.395
 StdDev = 1.76391

LCL = 1605.103
 UCL = 1615.687

Number beyond limits = 43
 Number violating runs = 42

40th column point of this product



Number of groups = 195

Center = 1611.831

StdDev = 1.786759

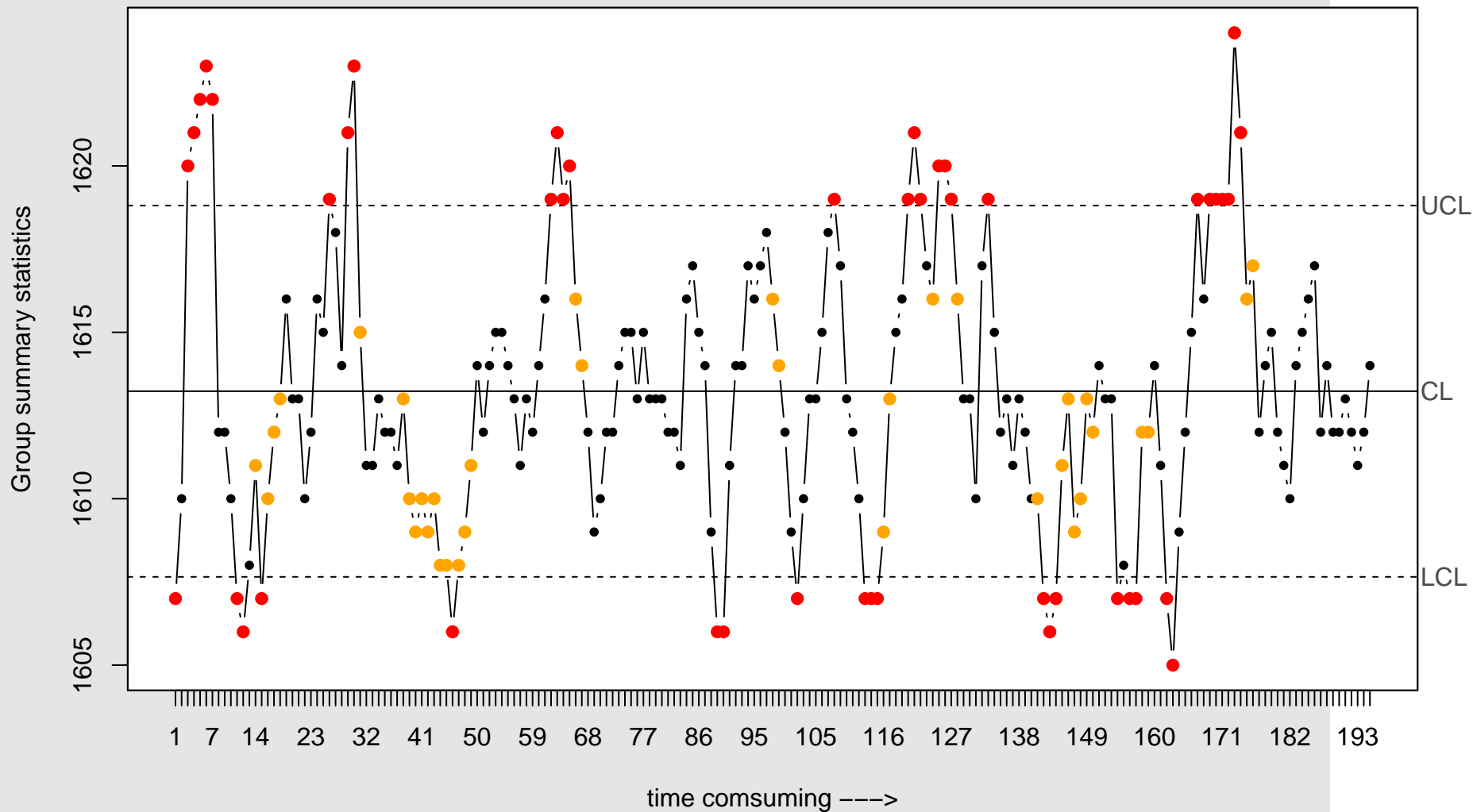
LCL = 1606.47

UCL = 1617.191

Number beyond limits = 37

Number violating runs = 35

41th column point of this product



Number of groups = 195

Center = 1613.231

StdDev = 1.859874

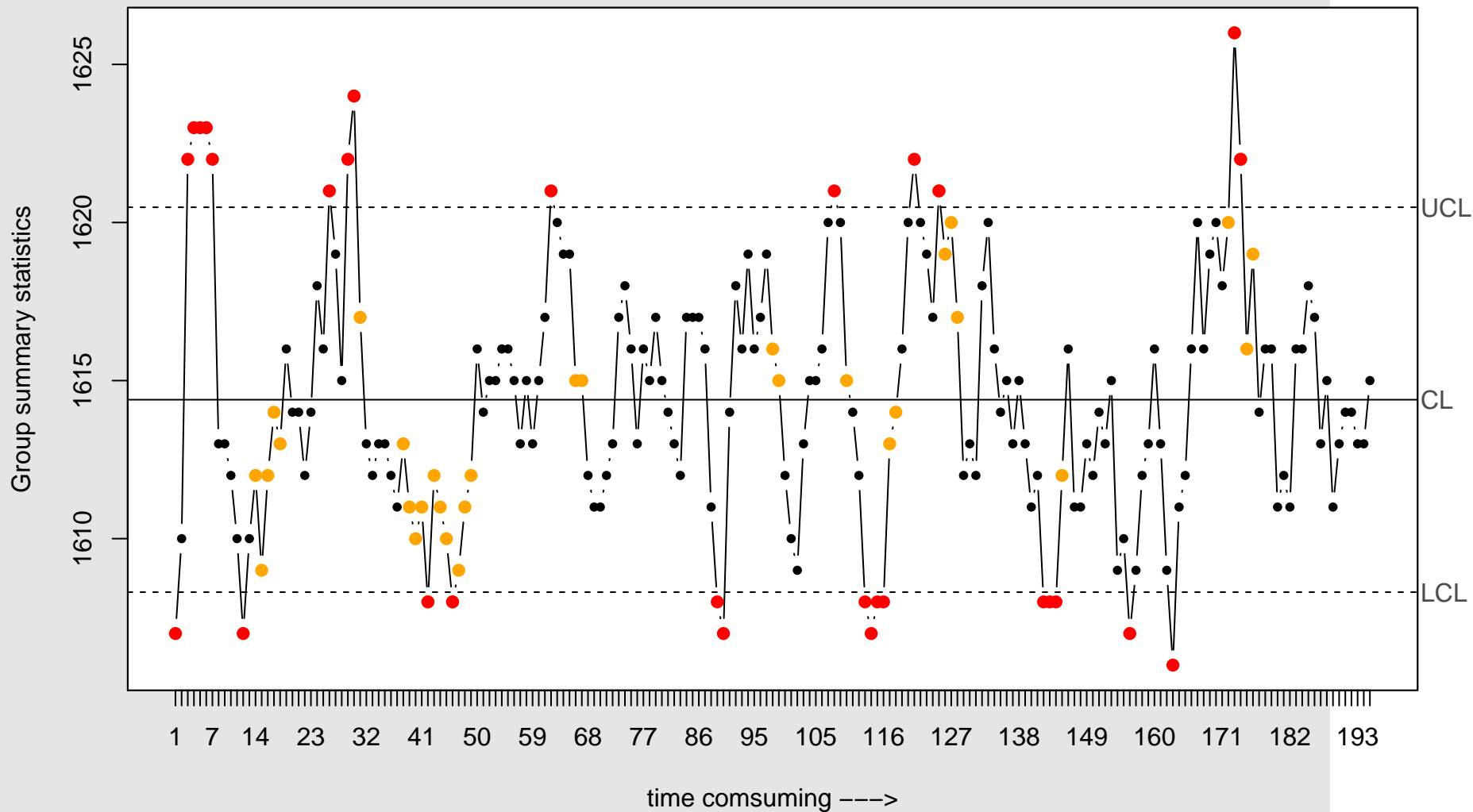
LCL = 1607.651

UCL = 1618.81

Number beyond limits = 46

Number violating runs = 47

42th column point of this product



Number of groups = 195

Center = 1614.395

StdDev = 2.028954

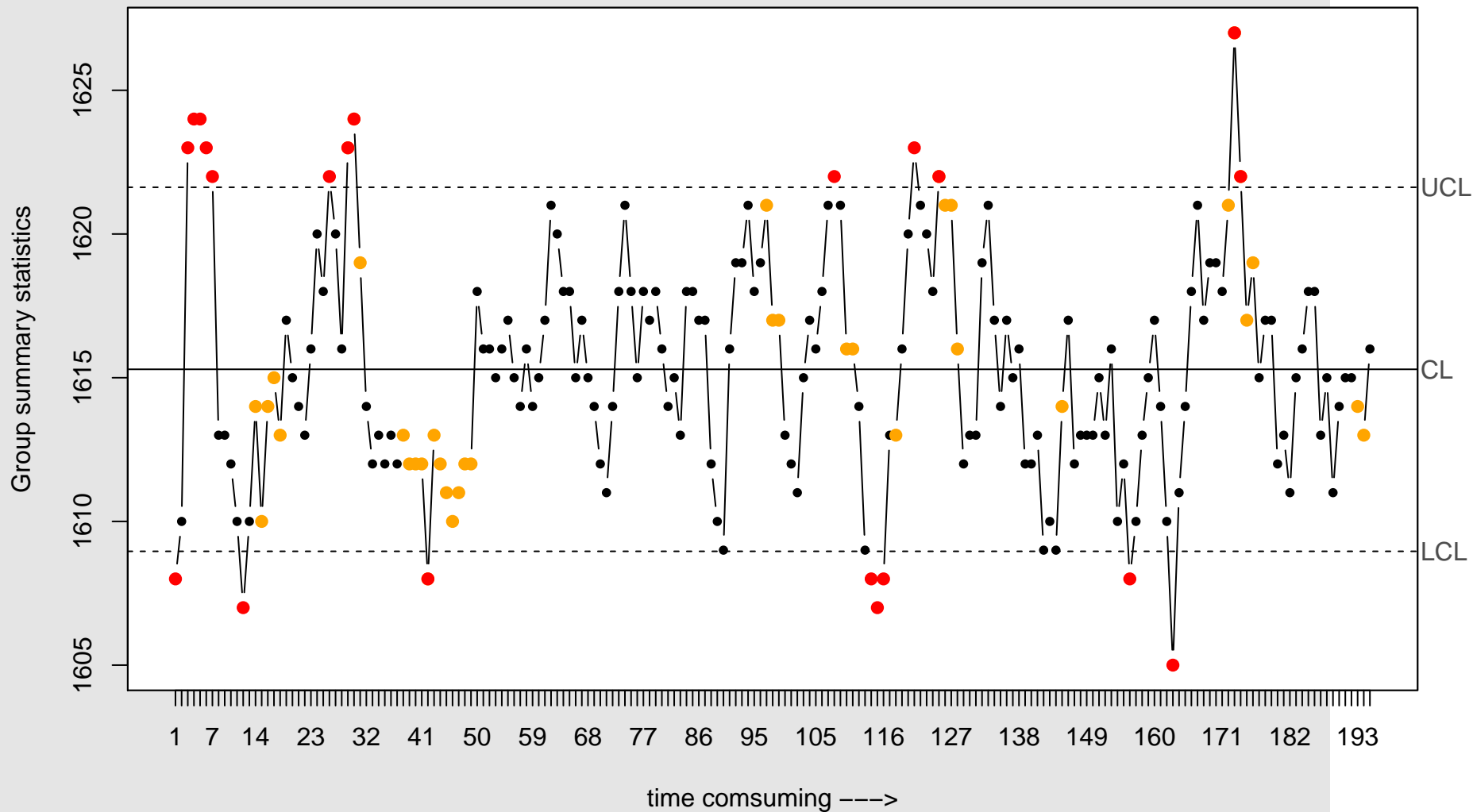
LCL = 1608.308

UCL = 1620.482

Number beyond limits = 29

Number violating runs = 36

43th column point of this product



Number of groups = 195

Center = 1615.292

StdDev = 2.111209

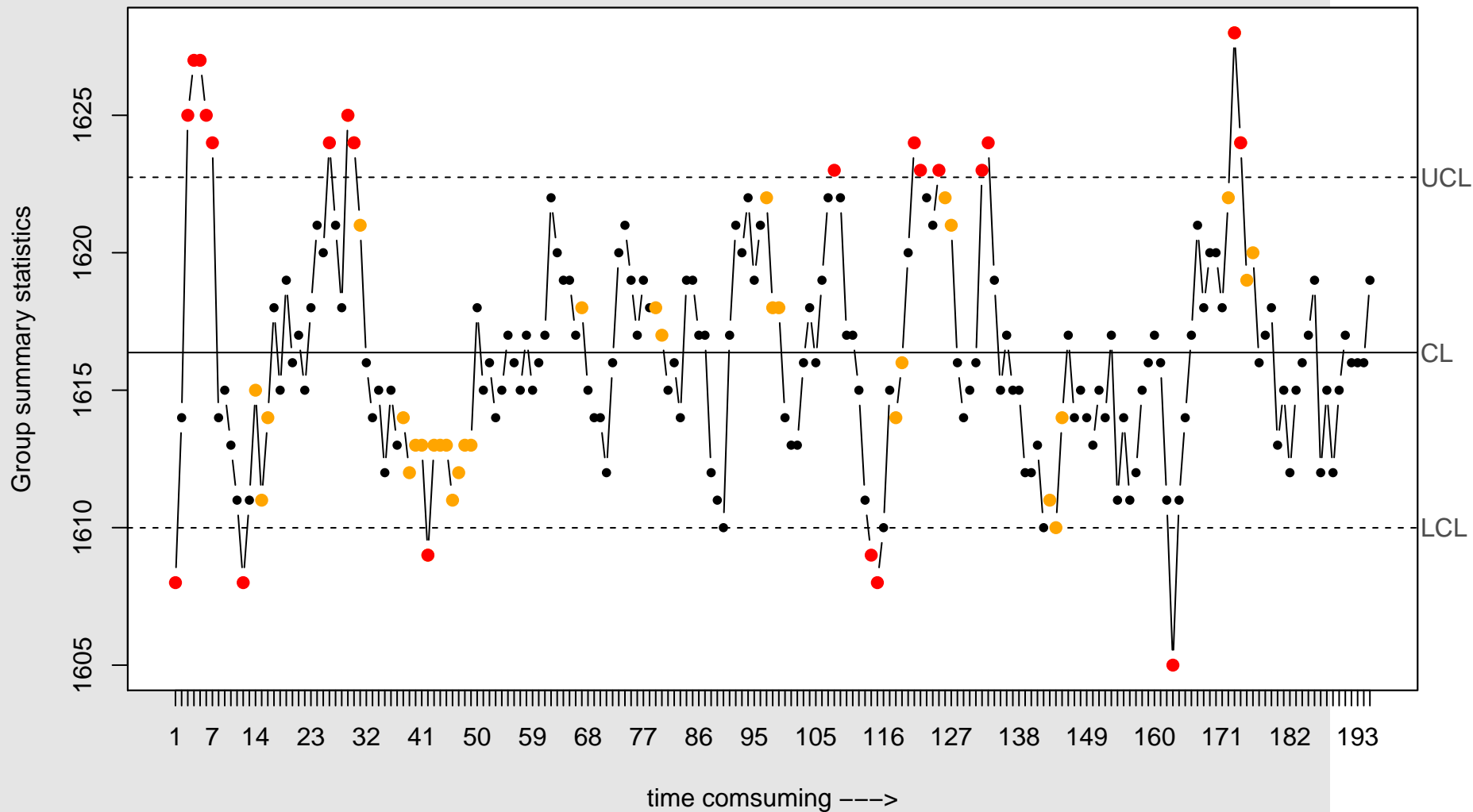
LCL = 1608.959

UCL = 1621.626

Number beyond limits = 21

Number violating runs = 38

44th column point of this product



Number of groups = 195

Center = 1616.369

StdDev = 2.124918

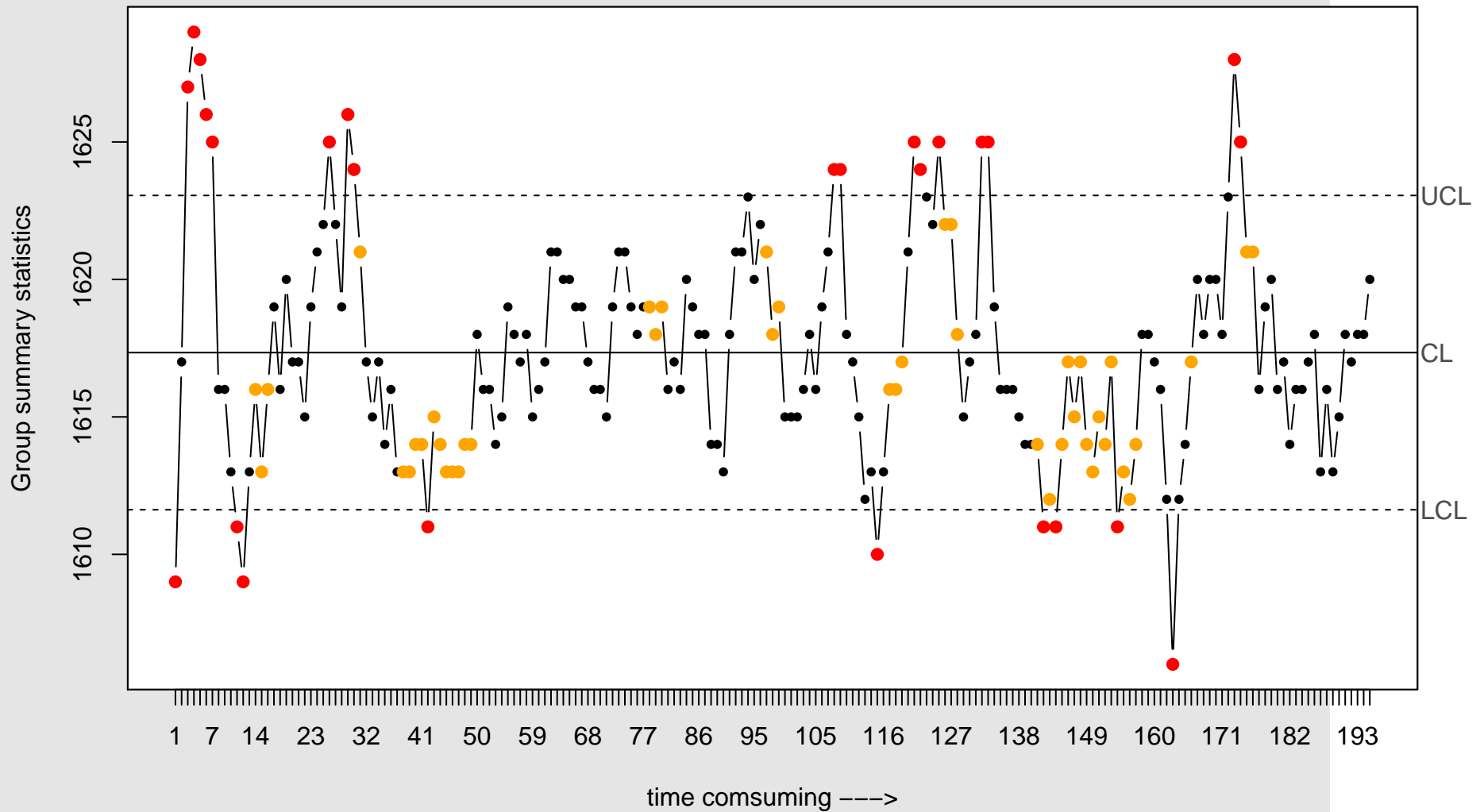
LCL = 1609.994

UCL = 1622.744

Number beyond limits = 22

Number violating runs = 36

45th column point of this product



Number of groups = 195

Center = 1617.338

StdDev = 1.905571

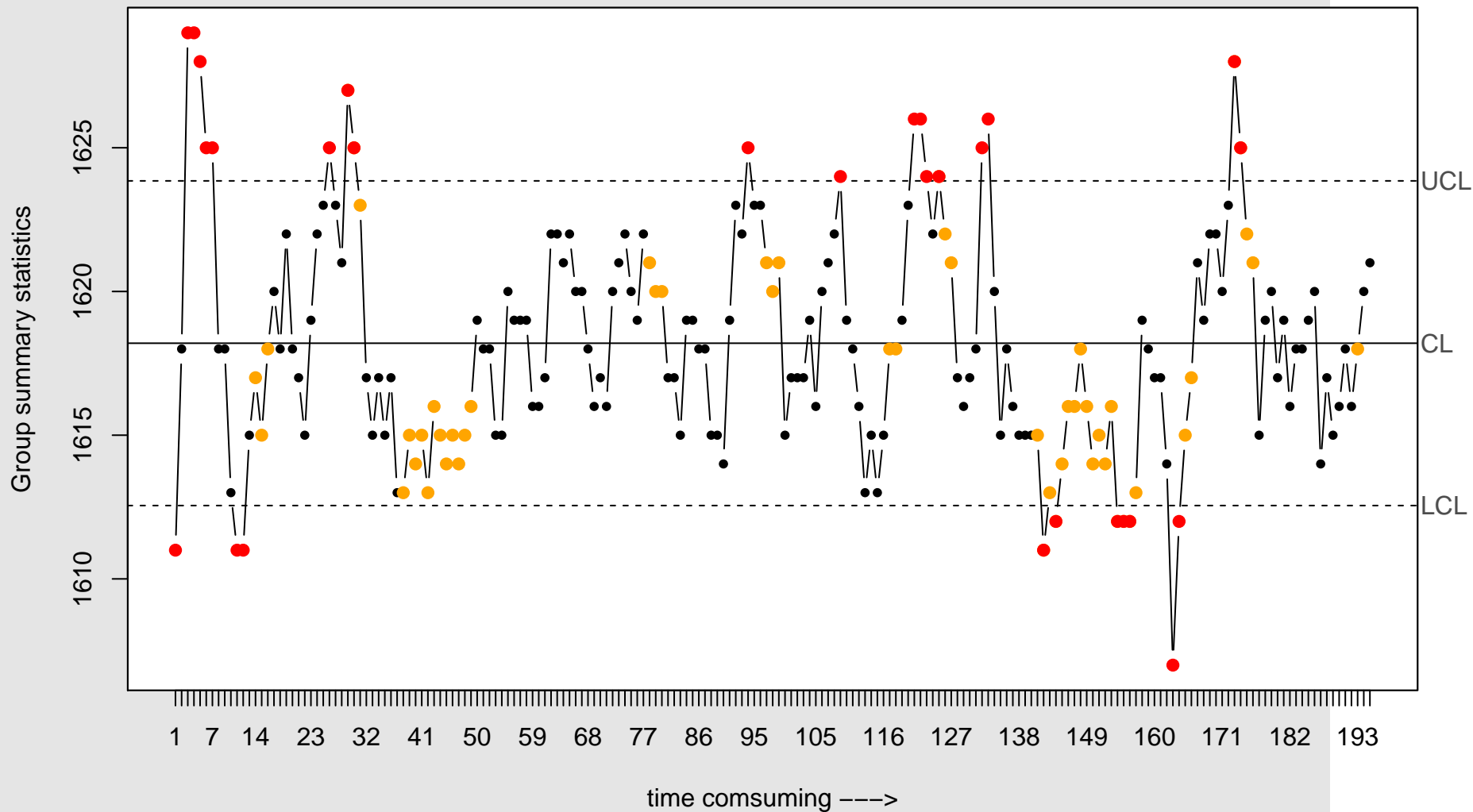
LCL = 1611.622

UCL = 1623.055

Number beyond limits = 26

Number violating runs = 52

46th column point of this product



Number of groups = 195

Center = 1618.2

StdDev = 1.882723

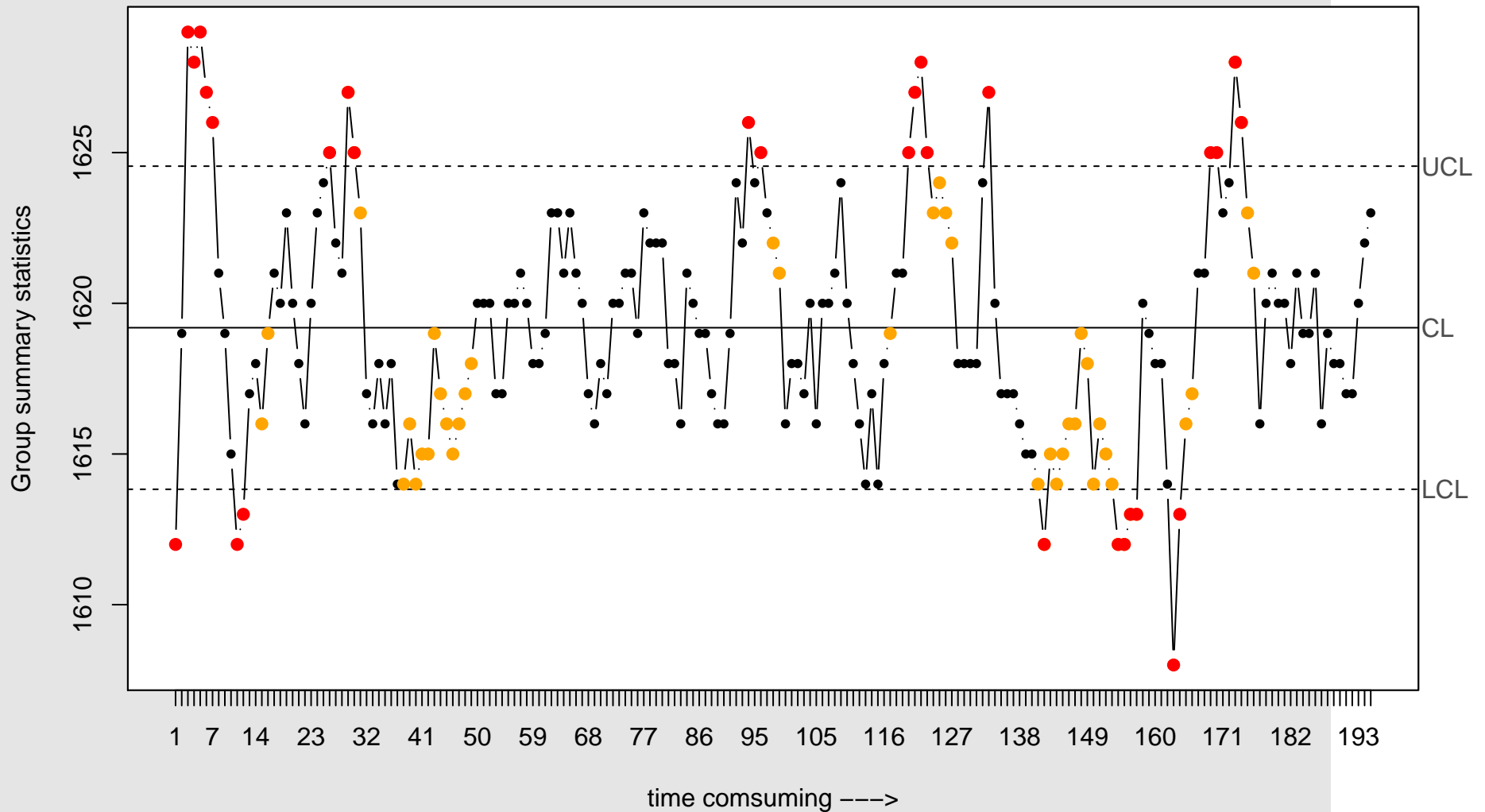
LCL = 1612.552

UCL = 1623.848

Number beyond limits = 28

Number violating runs = 53

47th column point of this product



Number of groups = 195

Center = 1619.19

StdDev = 1.786759

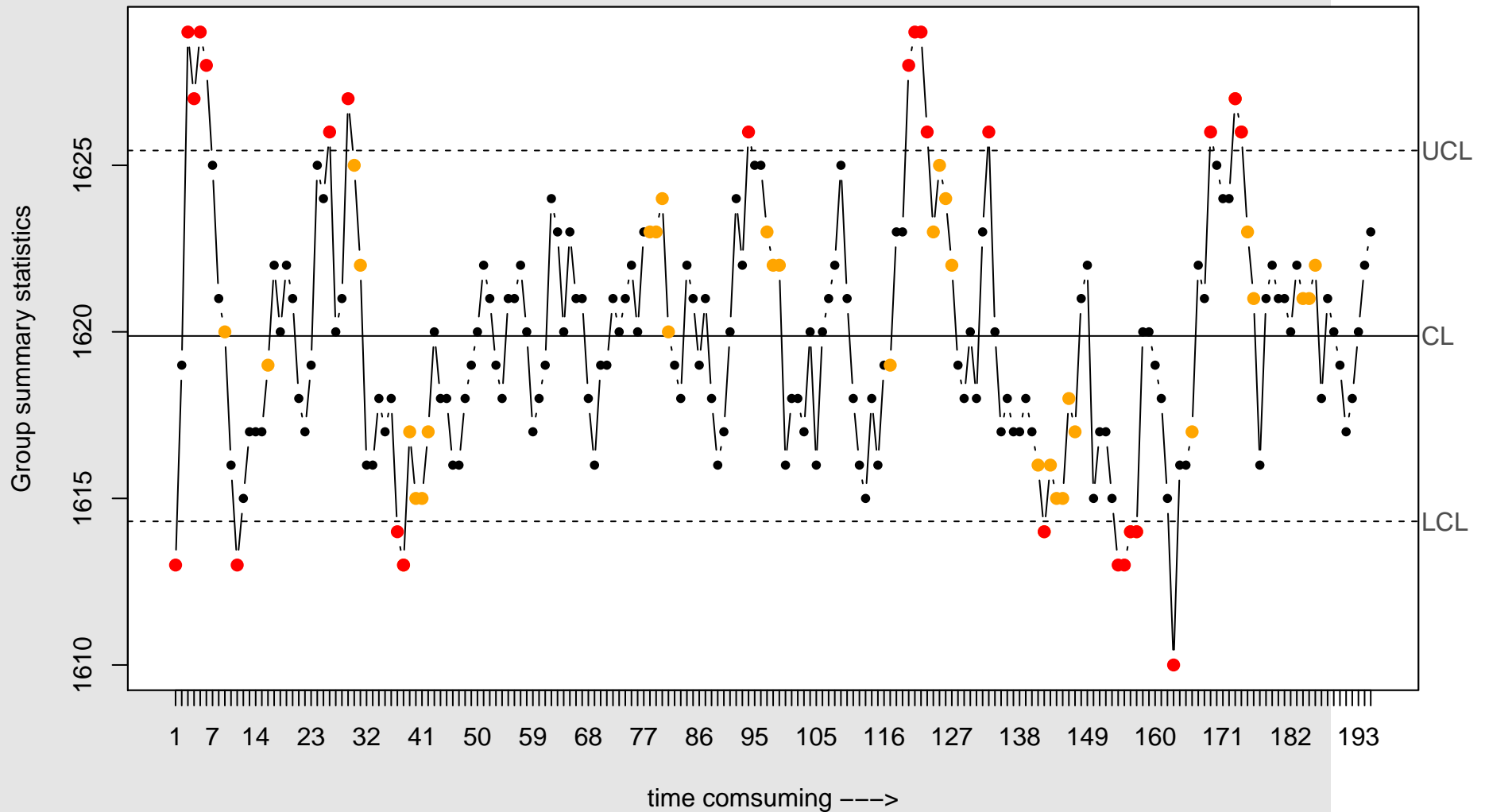
LCL = 1613.829

UCL = 1624.55

Number beyond limits = 29

Number violating runs = 47

48th column point of this product



Number of groups = 195

Center = 1619.877

StdDev = 1.855305

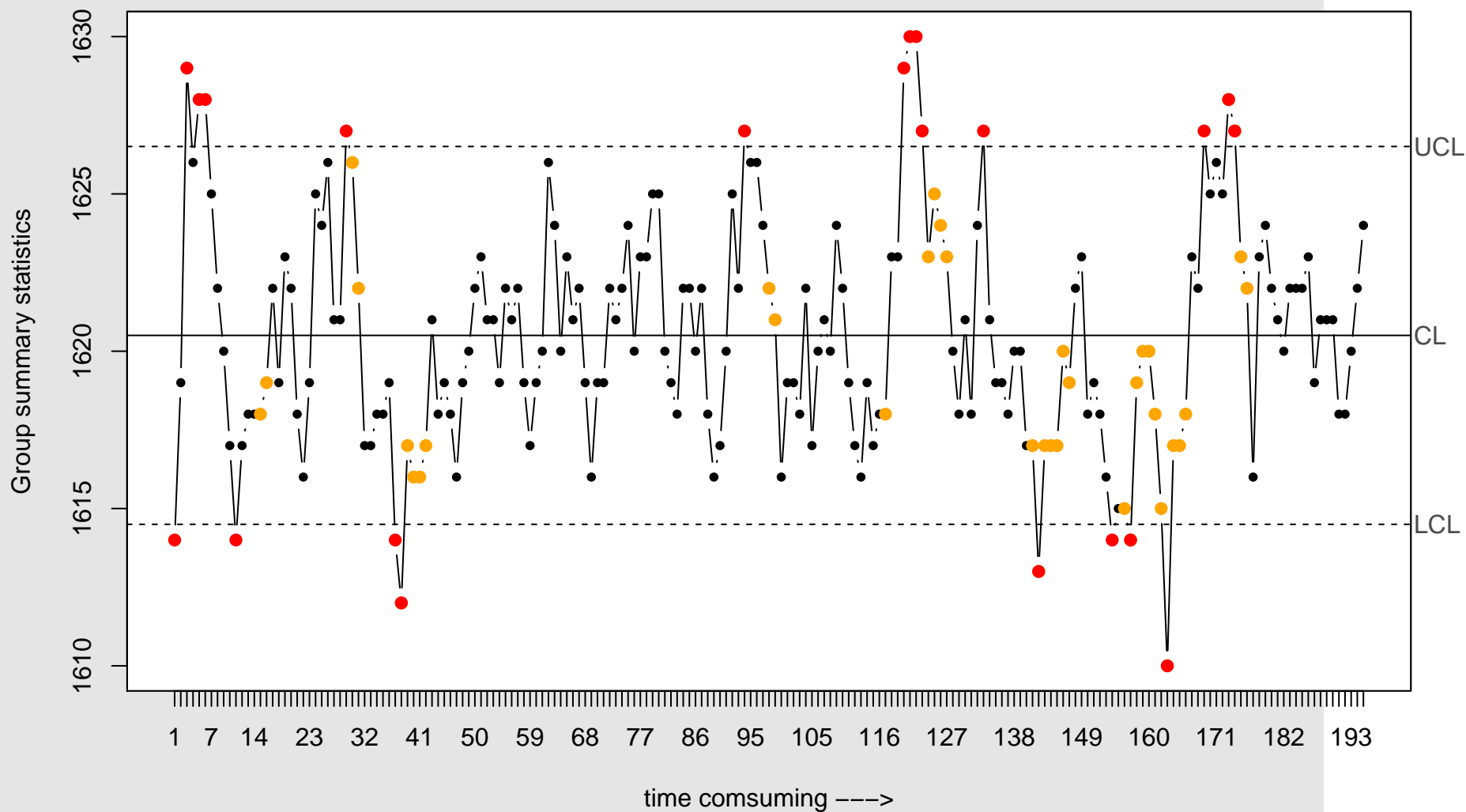
LCL = 1614.311

UCL = 1625.443

Number beyond limits = 25

Number violating runs = 38

49th column point of this product



Number of groups = 195

Center = 1620.503

StdDev = 2.001535

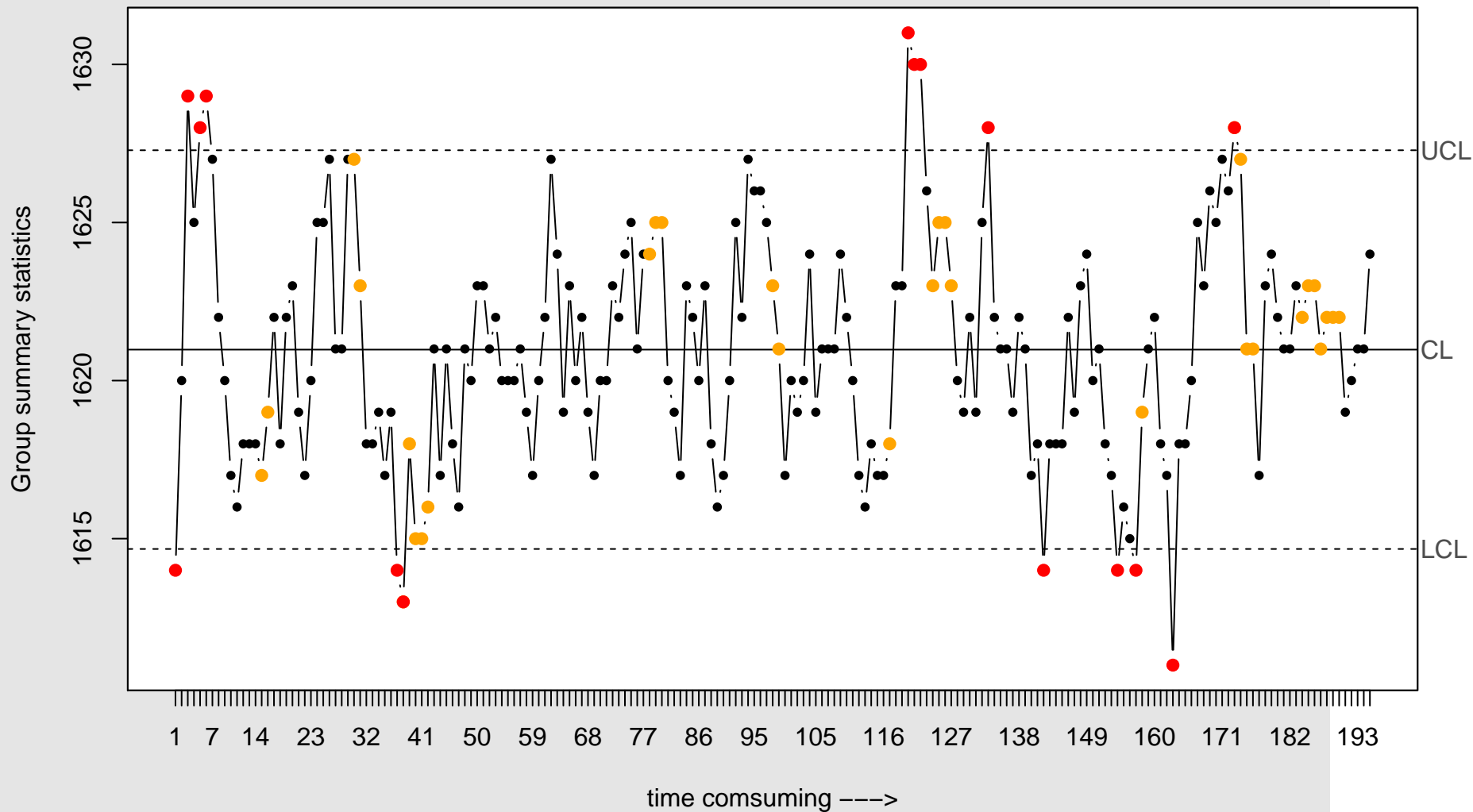
LCL = 1614.498

UCL = 1626.507

Number beyond limits = 21

Number violating runs = 38

50th column point of this product



Number of groups = 195

Center = 1620.979

StdDev = 2.102069

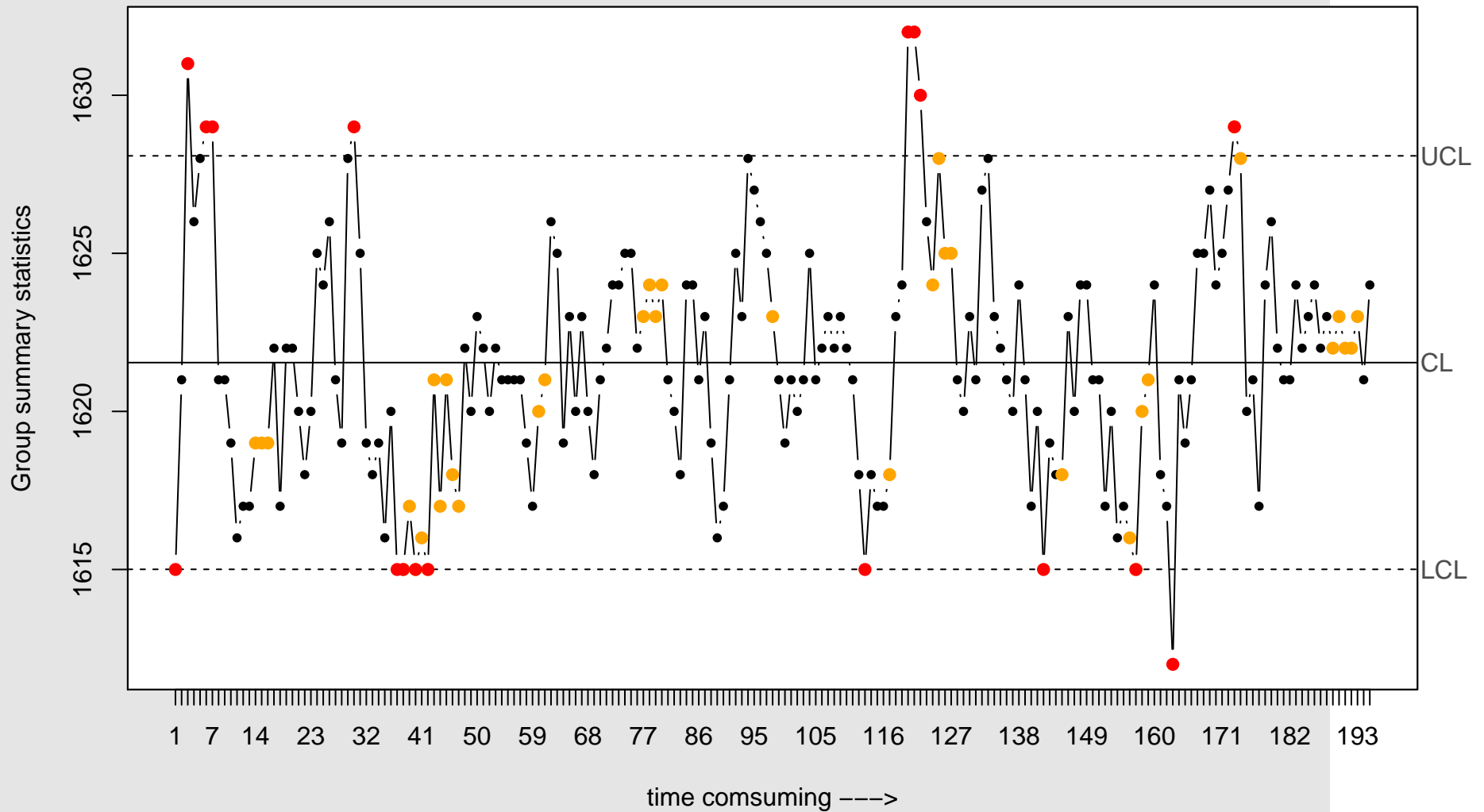
LCL = 1614.673

UCL = 1627.286

Number beyond limits = 15

Number violating runs = 31

51th column point of this product



Number of groups = 195

Center = 1621.544

StdDev = 2.179754

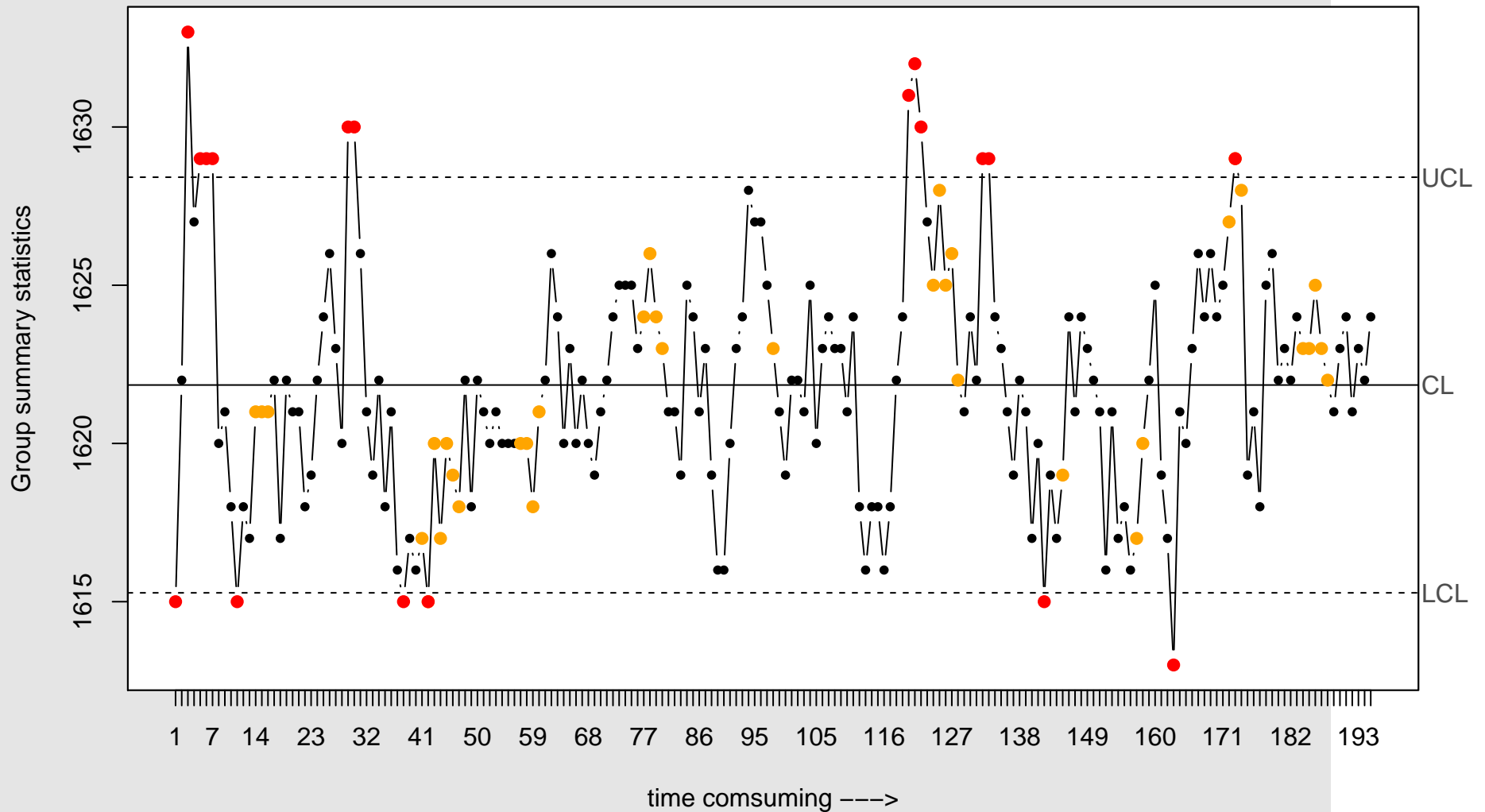
LCL = 1615.004

UCL = 1628.083

Number beyond limits = 17

Number violating runs = 37

52th column point of this product



Number of groups = 195

Center = 1621.846

StdDev = 2.188894

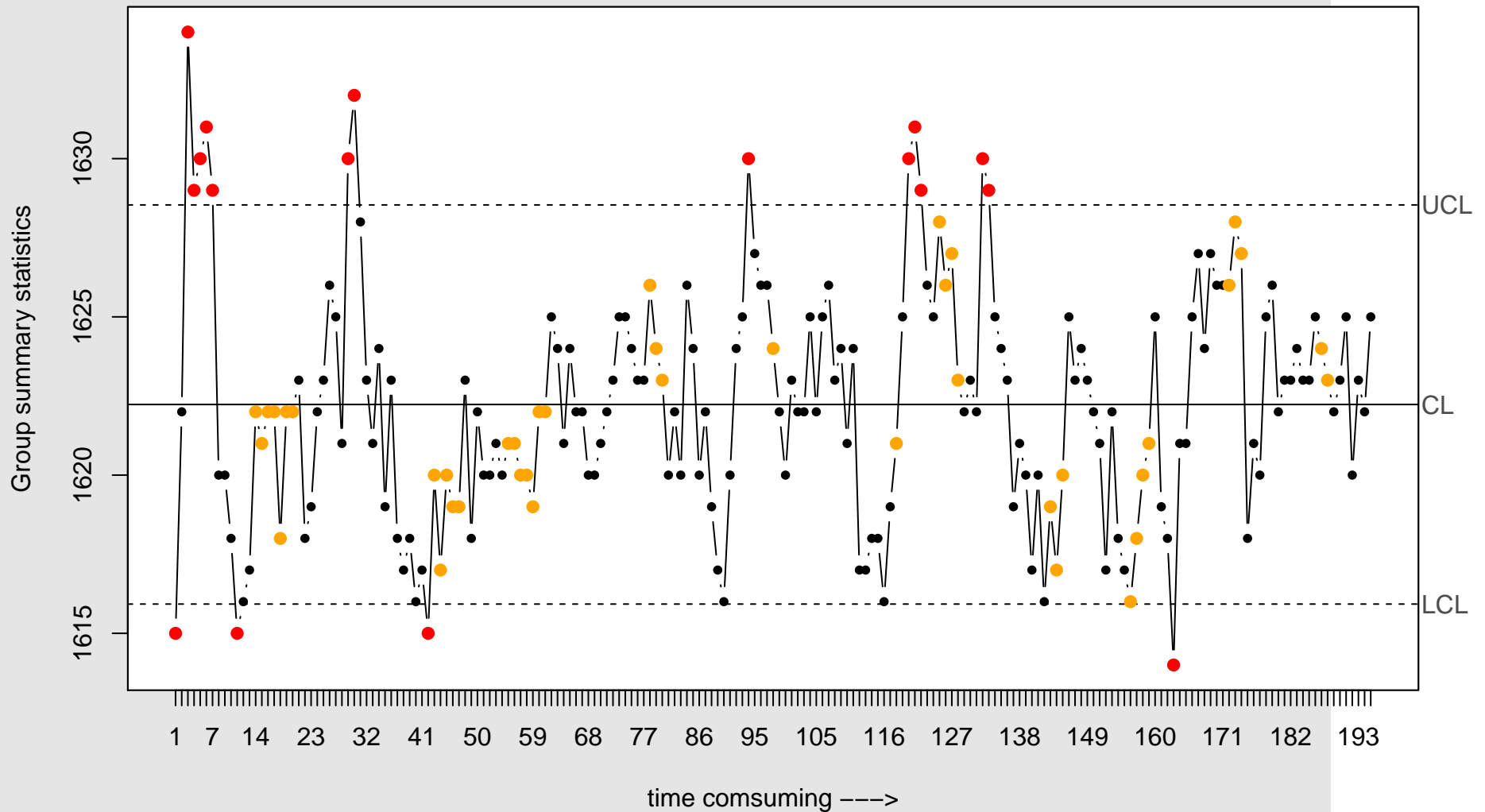
LCL = 1615.279

UCL = 1628.413

Number beyond limits = 18

Number violating runs = 35

53th column point of this product



Number of groups = 195

Center = 1622.231

StdDev = 2.102069

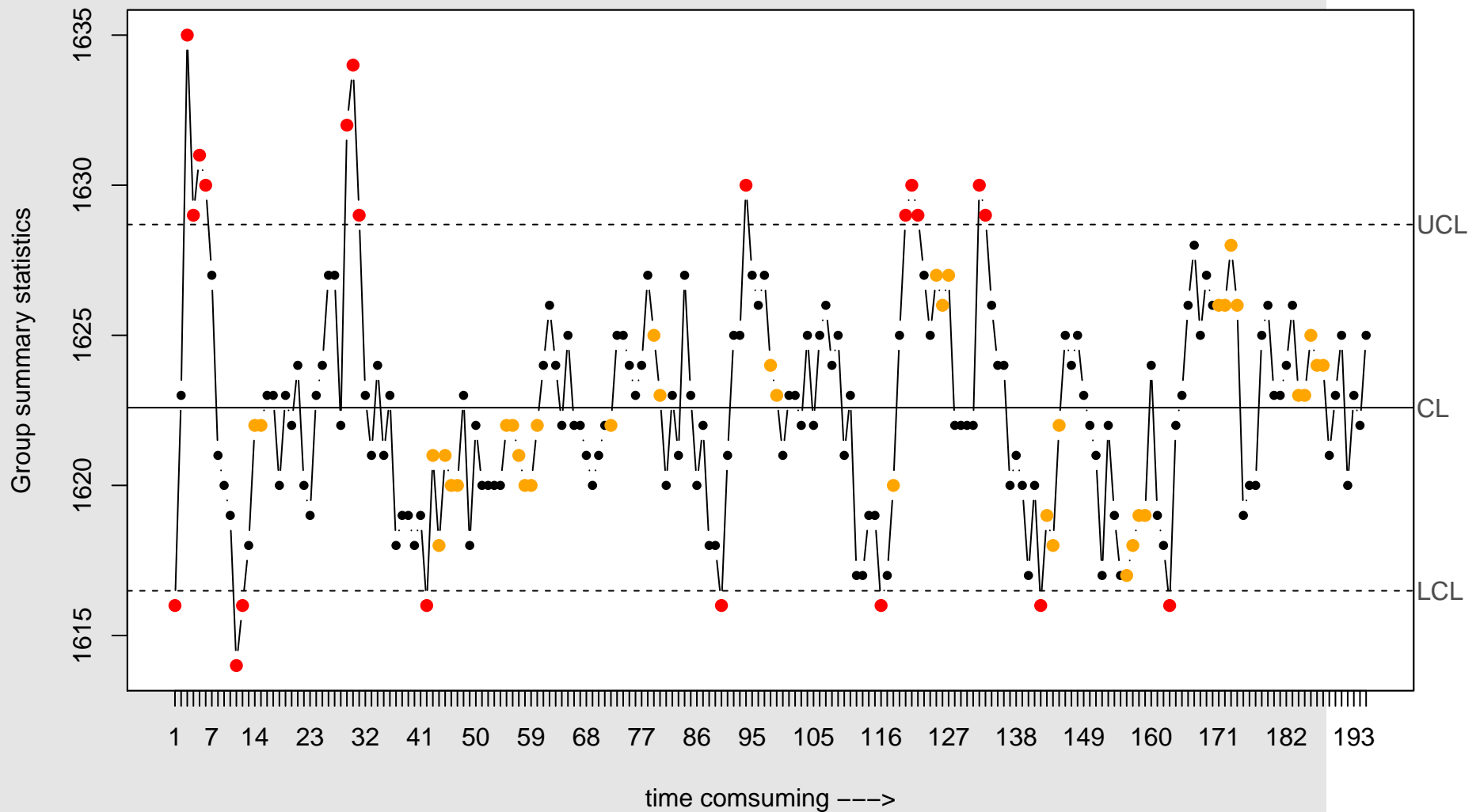
LCL = 1615.925

UCL = 1628.537

Number beyond limits = 17

Number violating runs = 40

54th column point of this product



Number of groups = 195

Center = 1622.59

StdDev = 2.033523

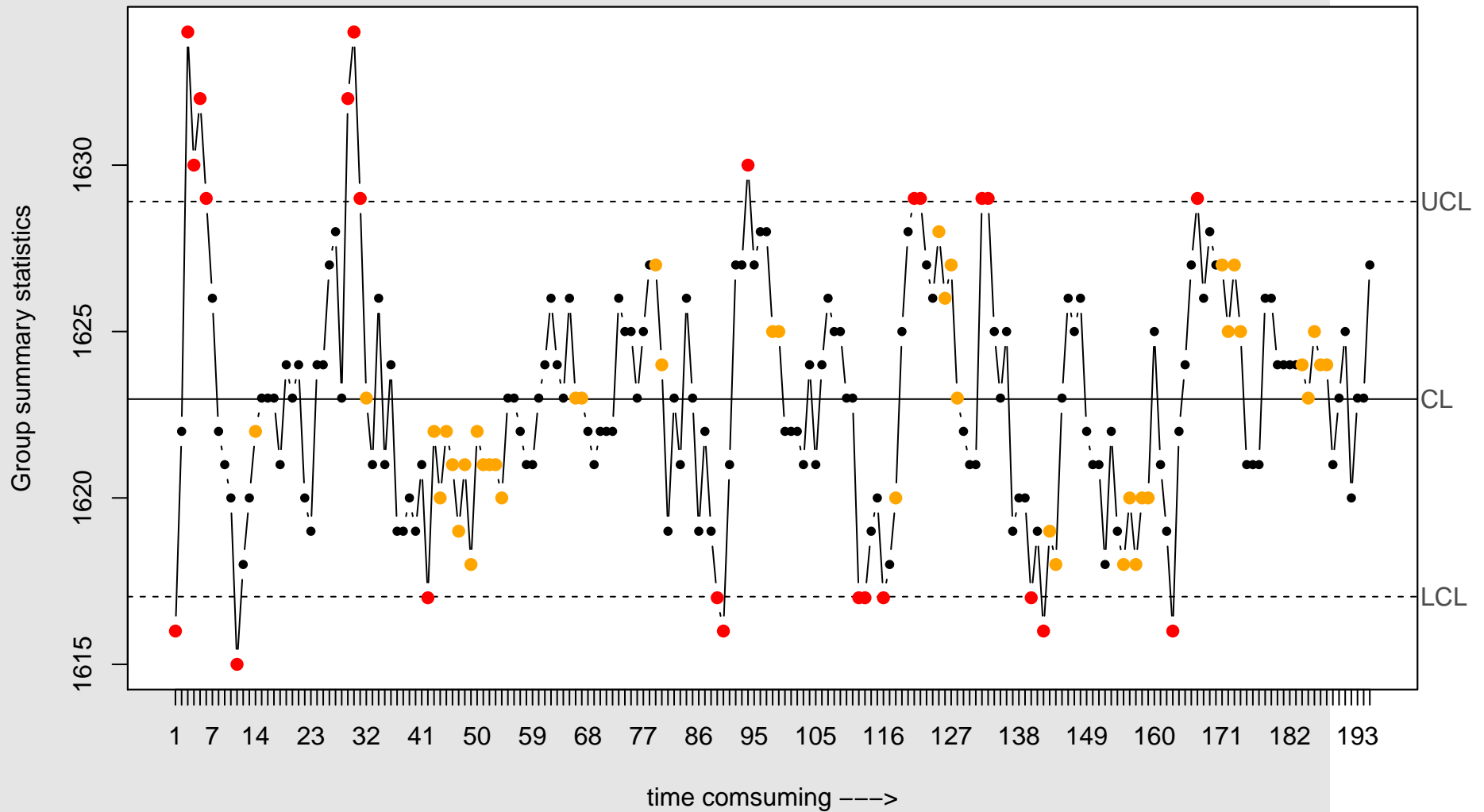
LCL = 1616.489

UCL = 1628.69

Number beyond limits = 21

Number violating runs = 38

55th column point of this product



Number of groups = 195

Center = 1622.969

StdDev = 1.978687

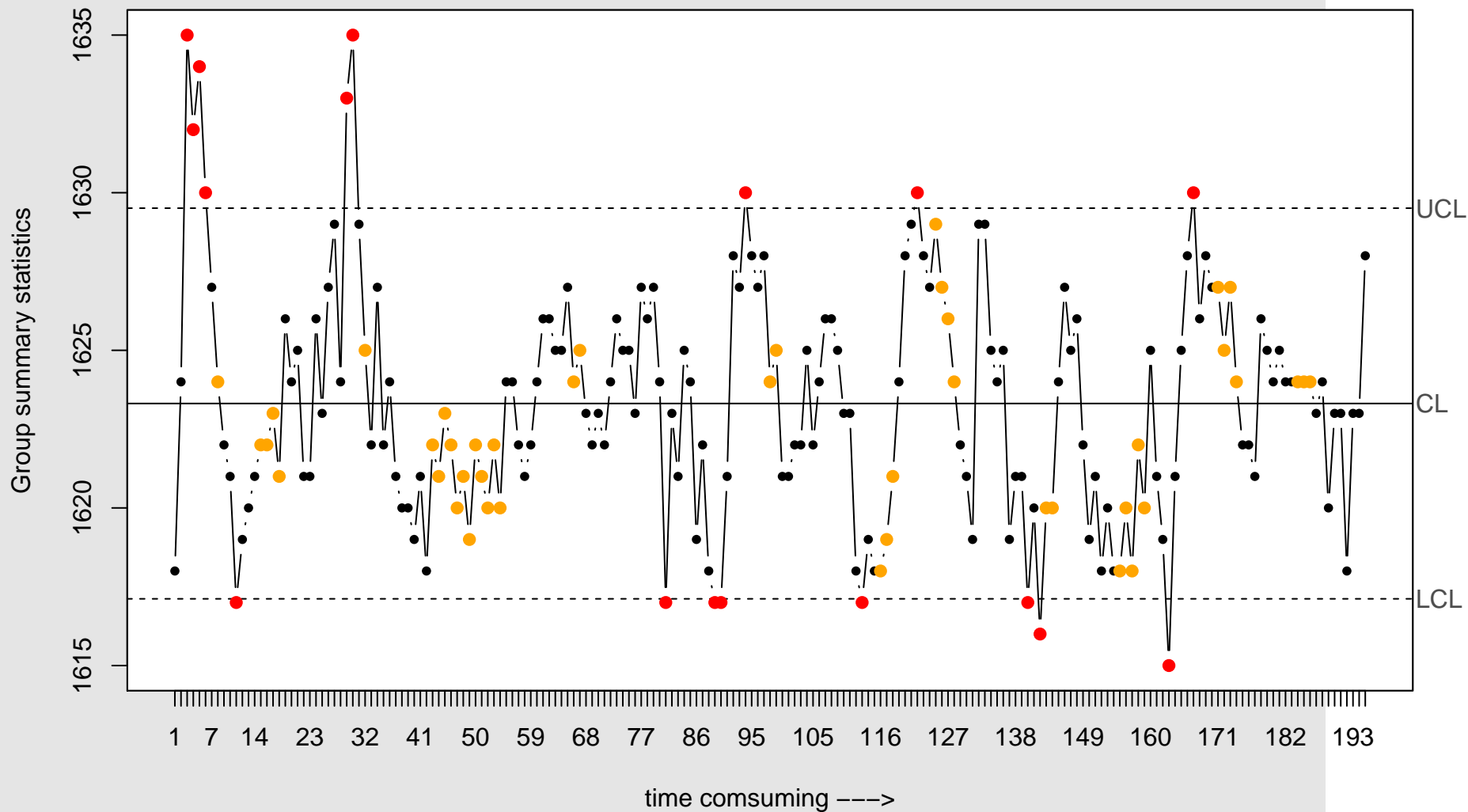
LCL = 1617.033

UCL = 1628.905

Number beyond limits = 24

Number violating runs = 43

56th column point of this product



Number of groups = 195

Center = 1623.313

StdDev = 2.065511

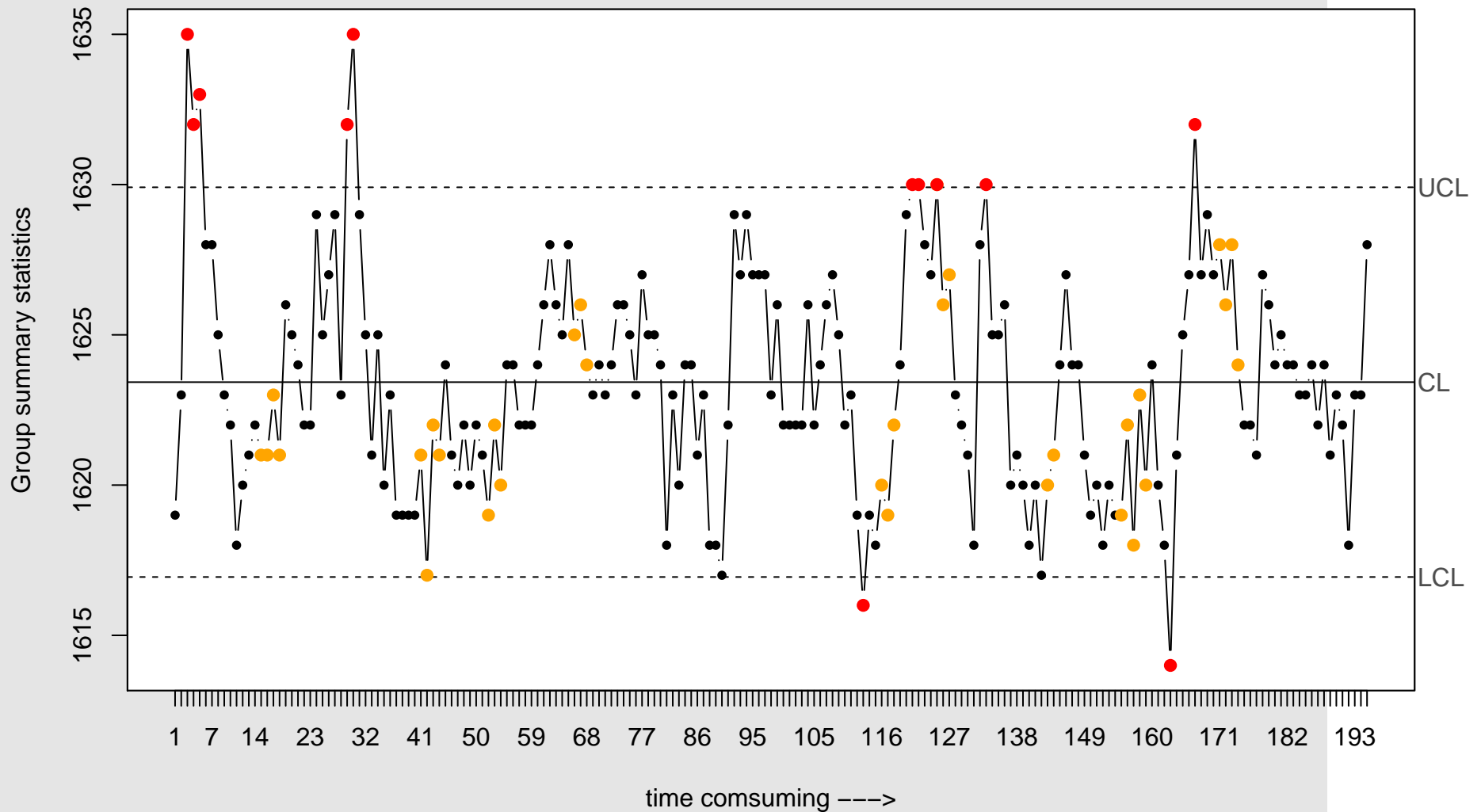
LCL = 1617.116

UCL = 1629.509

Number beyond limits = 17

Number violating runs = 43

57th column point of this product



Number of groups = 195

Center = 1623.426

StdDev = 2.161475

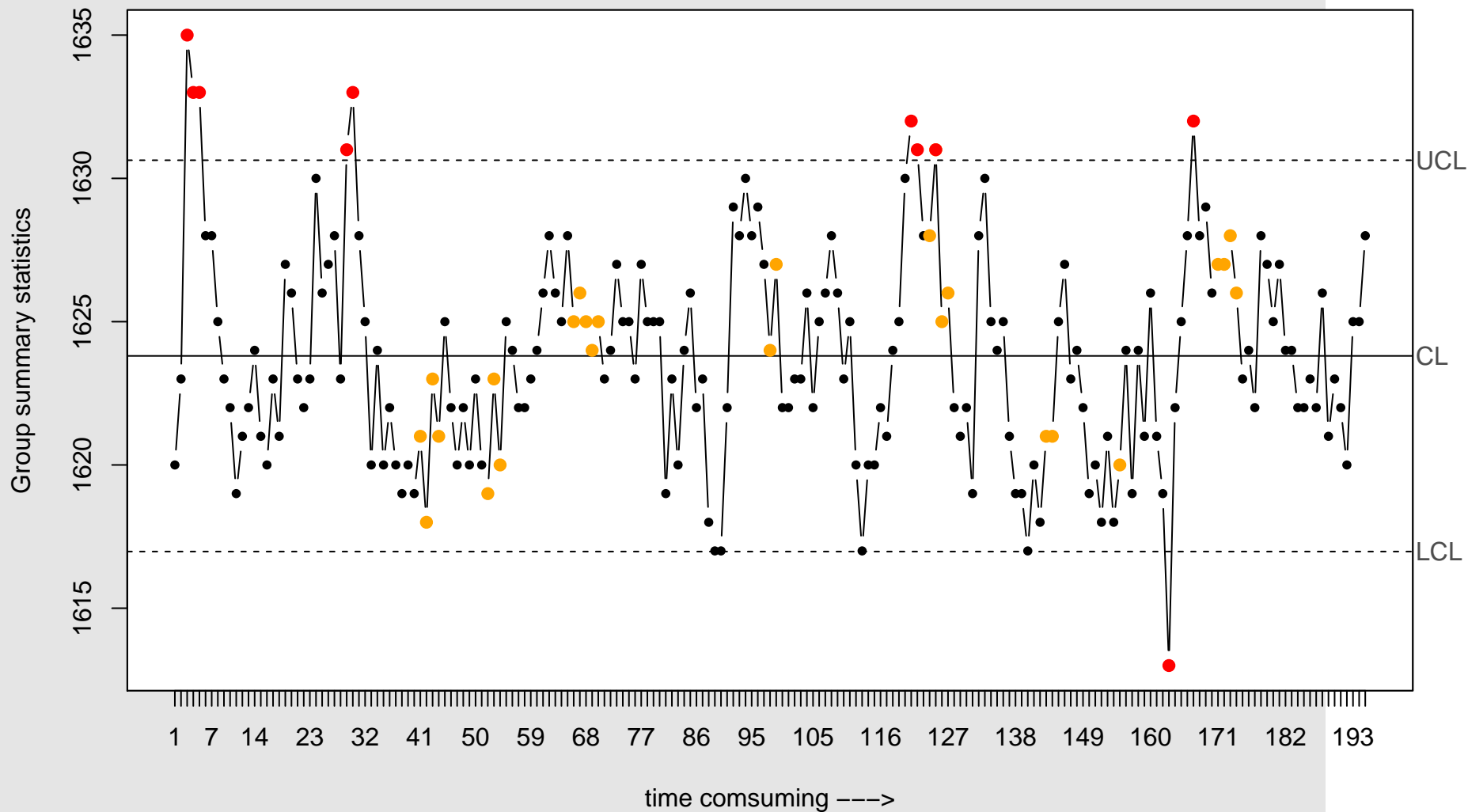
LCL = 1616.941

UCL = 1629.91

Number beyond limits = 12

Number violating runs = 31

58th column point of this product



Number of groups = 195

Center = 1623.805

StdDev = 2.275718

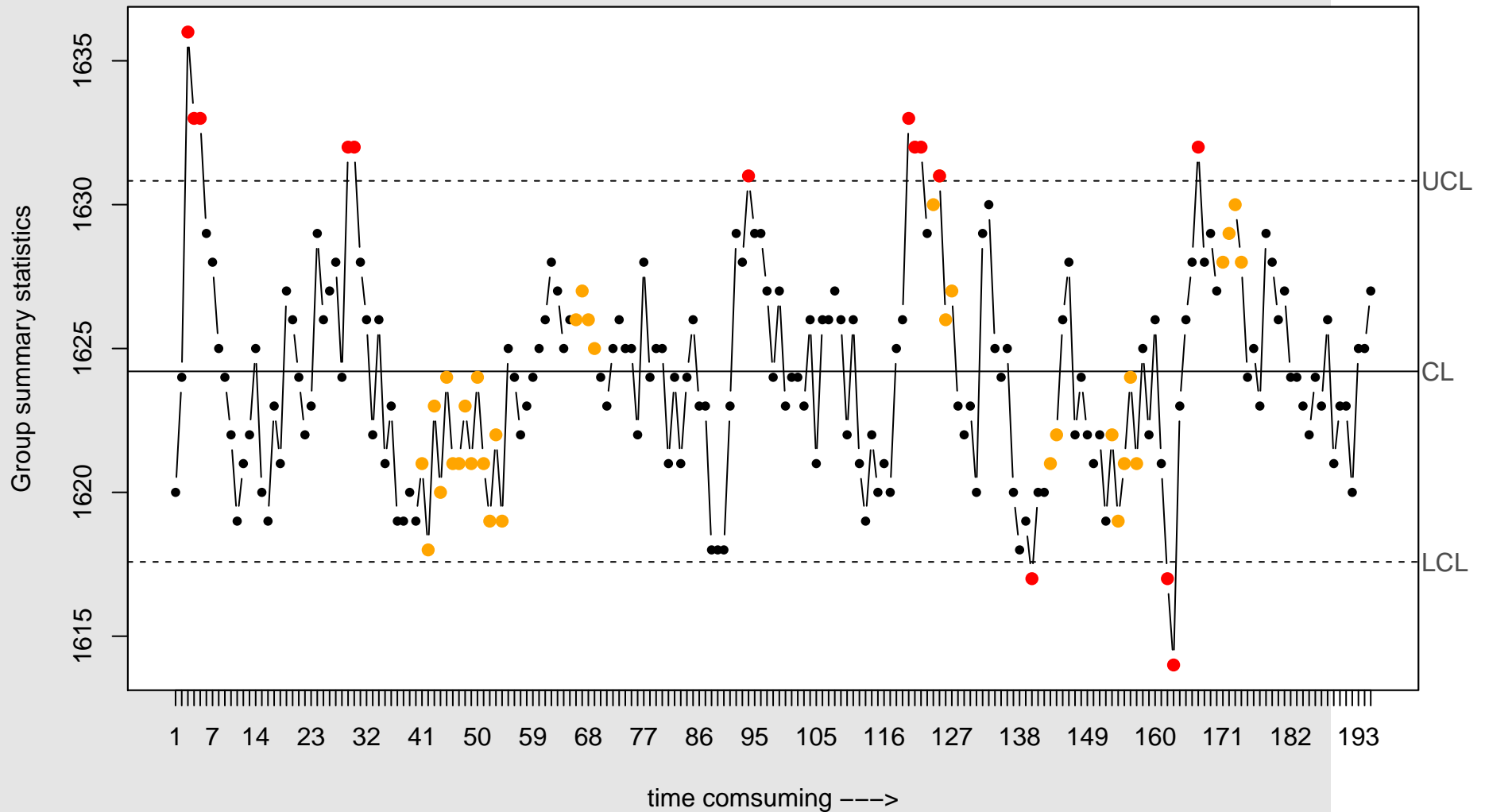
LCL = 1616.978

UCL = 1630.632

Number beyond limits = 10

Number violating runs = 25

59th column point of this product



Number of groups = 195

Center = 1624.205

StdDev = 2.207173

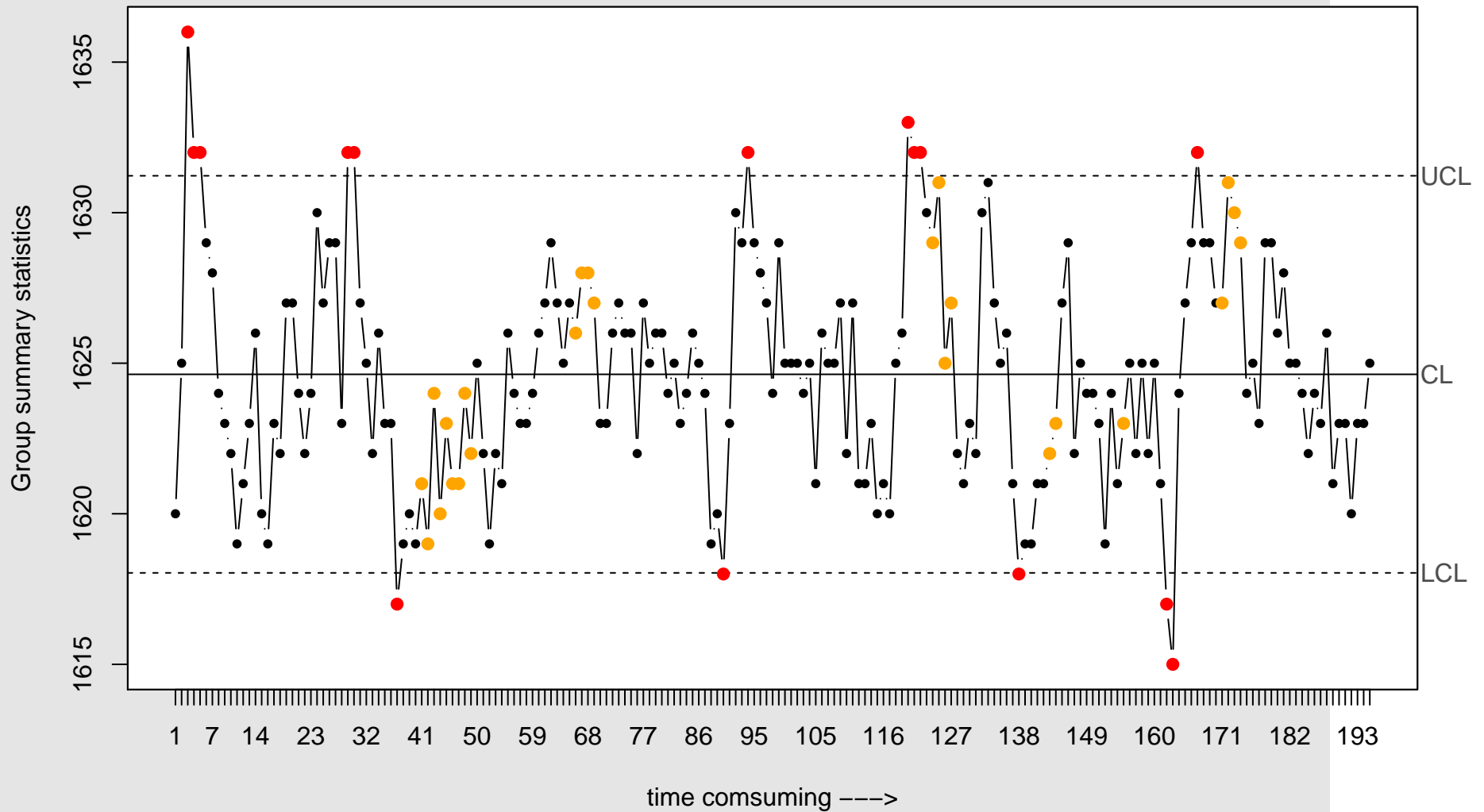
LCL = 1617.584

UCL = 1630.827

Number beyond limits = 14

Number violating runs = 33

60th column point of this product



Number of groups = 195

Center = 1624.631

StdDev = 2.198033

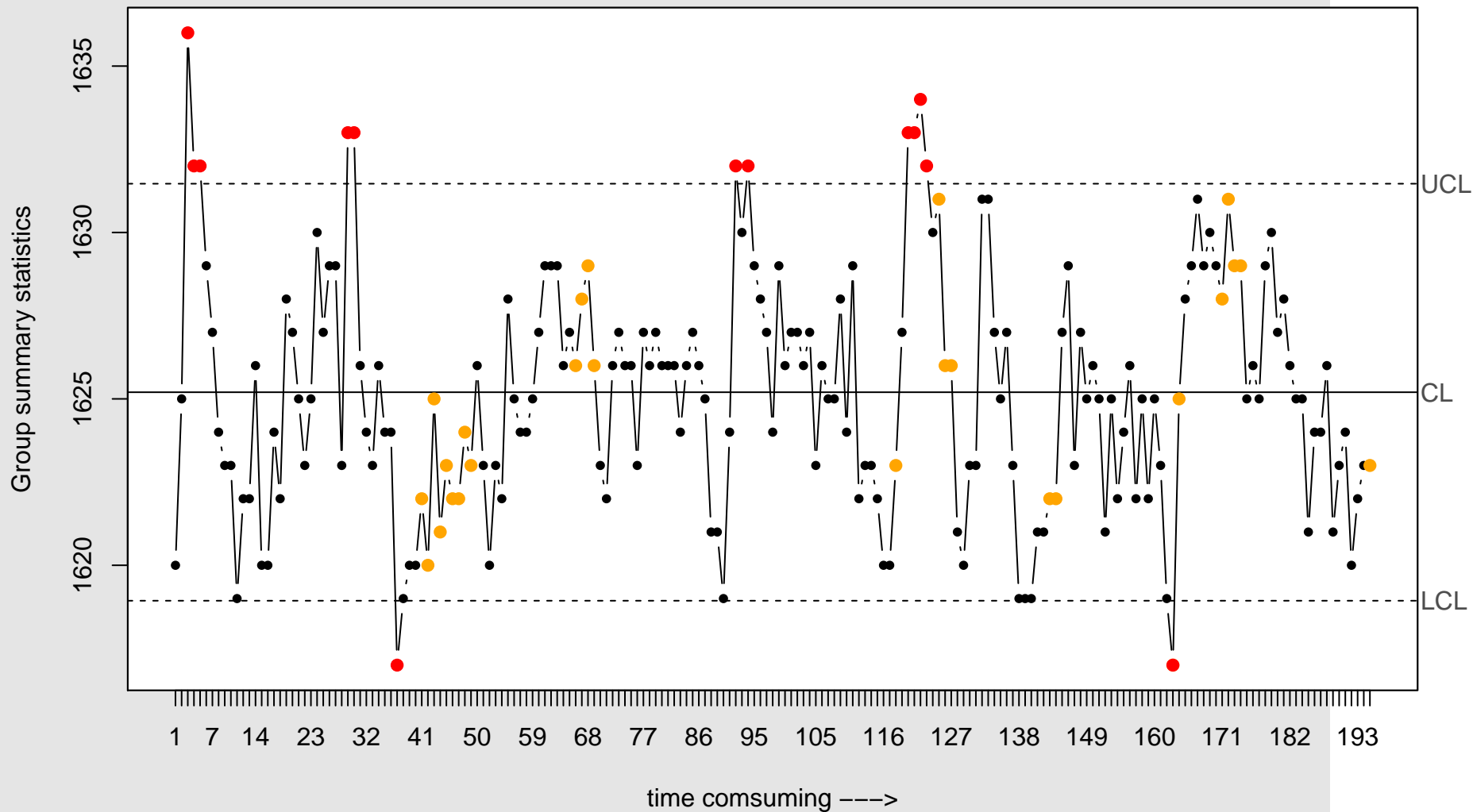
LCL = 1618.037

UCL = 1631.225

Number beyond limits = 15

Number violating runs = 24

61th column point of this product



Number of groups = 195

Center = 1625.2

StdDev = 2.08836

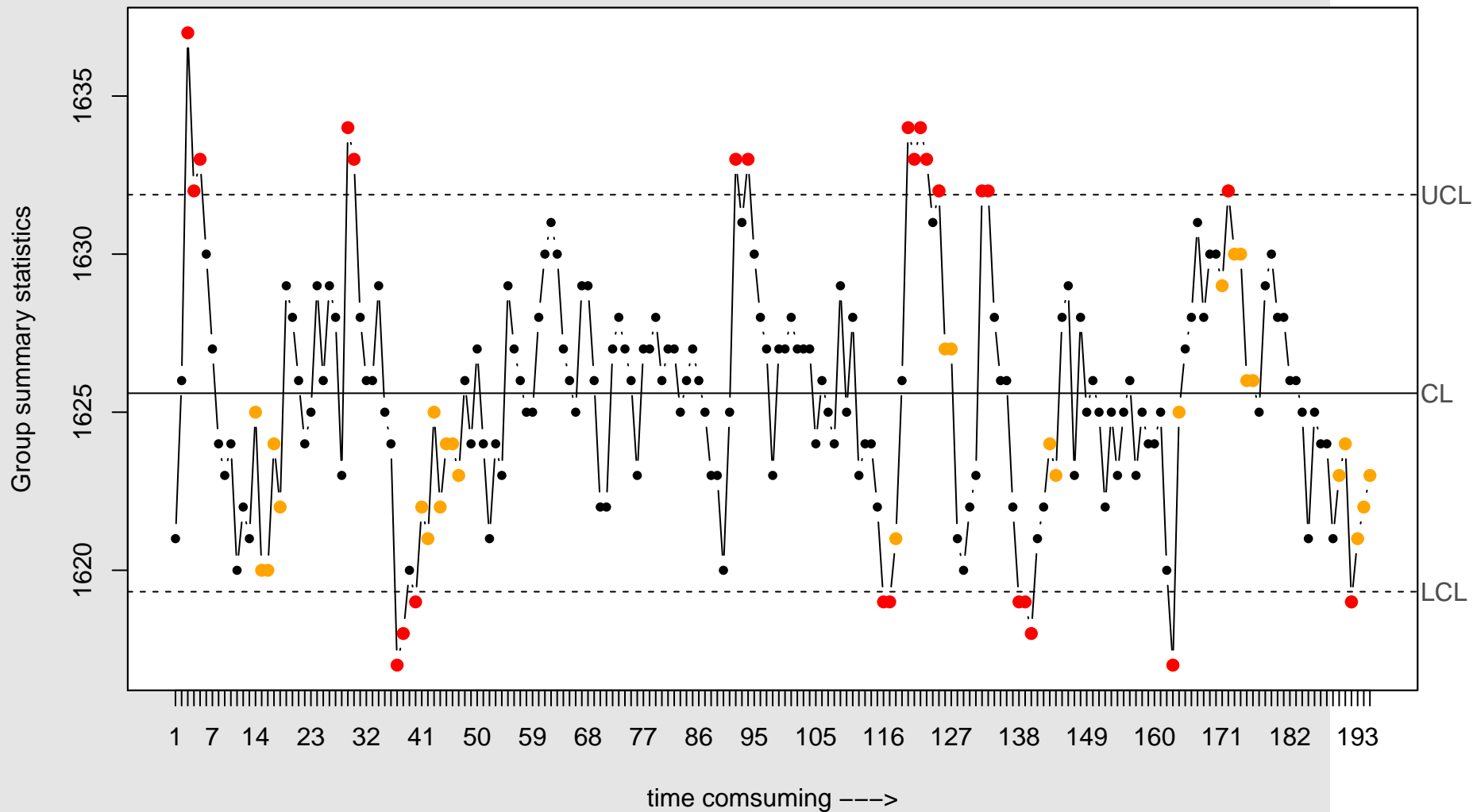
LCL = 1618.935

UCL = 1631.465

Number beyond limits = 13

Number violating runs = 26

62th column point of this product



Number of groups = 195

Center = 1625.6

StdDev = 2.09293

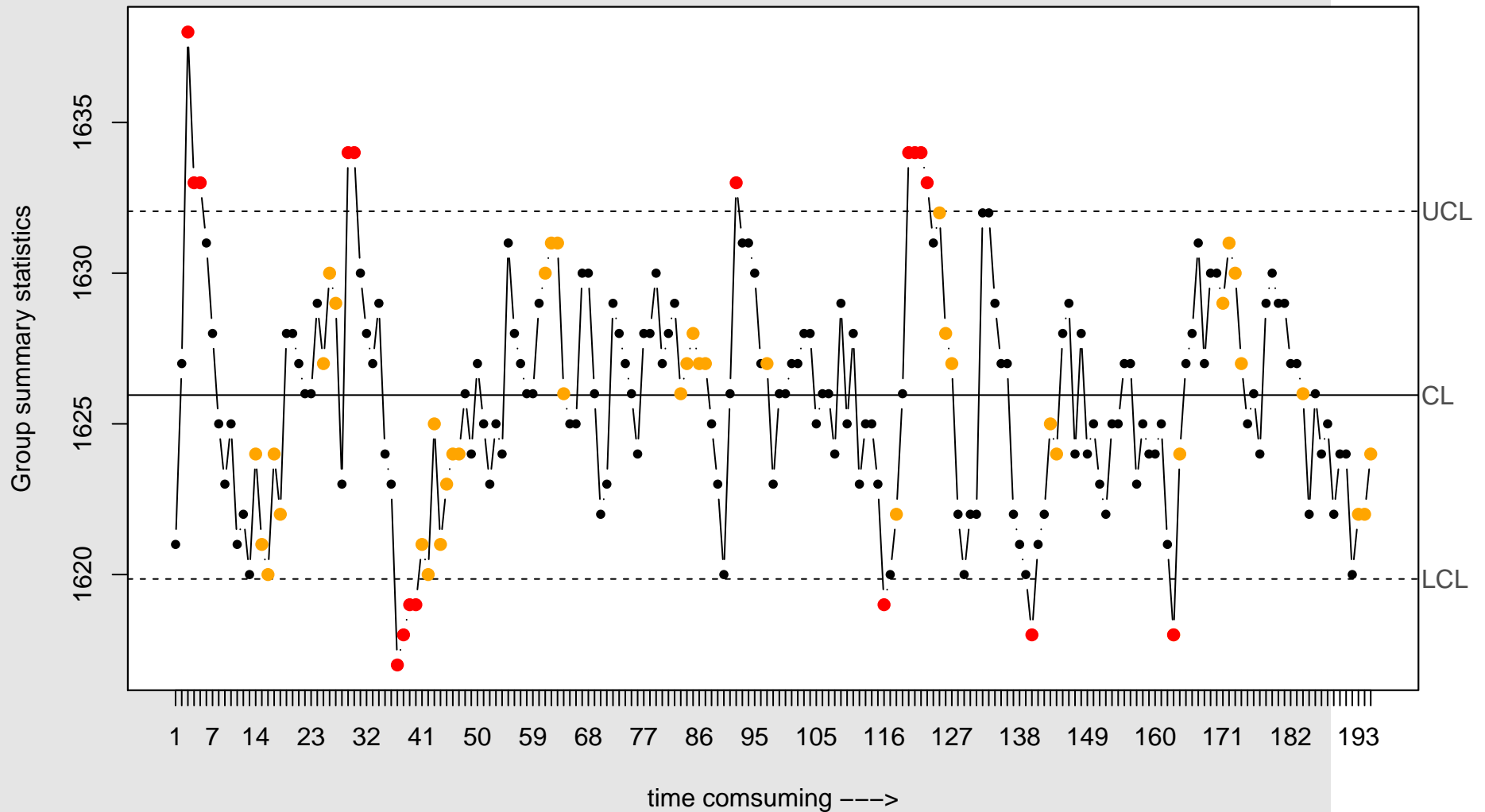
LCL = 1619.321

UCL = 1631.879

Number beyond limits = 25

Number violating runs = 32

63th column point of this product



Number of groups = 195

Center = 1625.954

StdDev = 2.033523

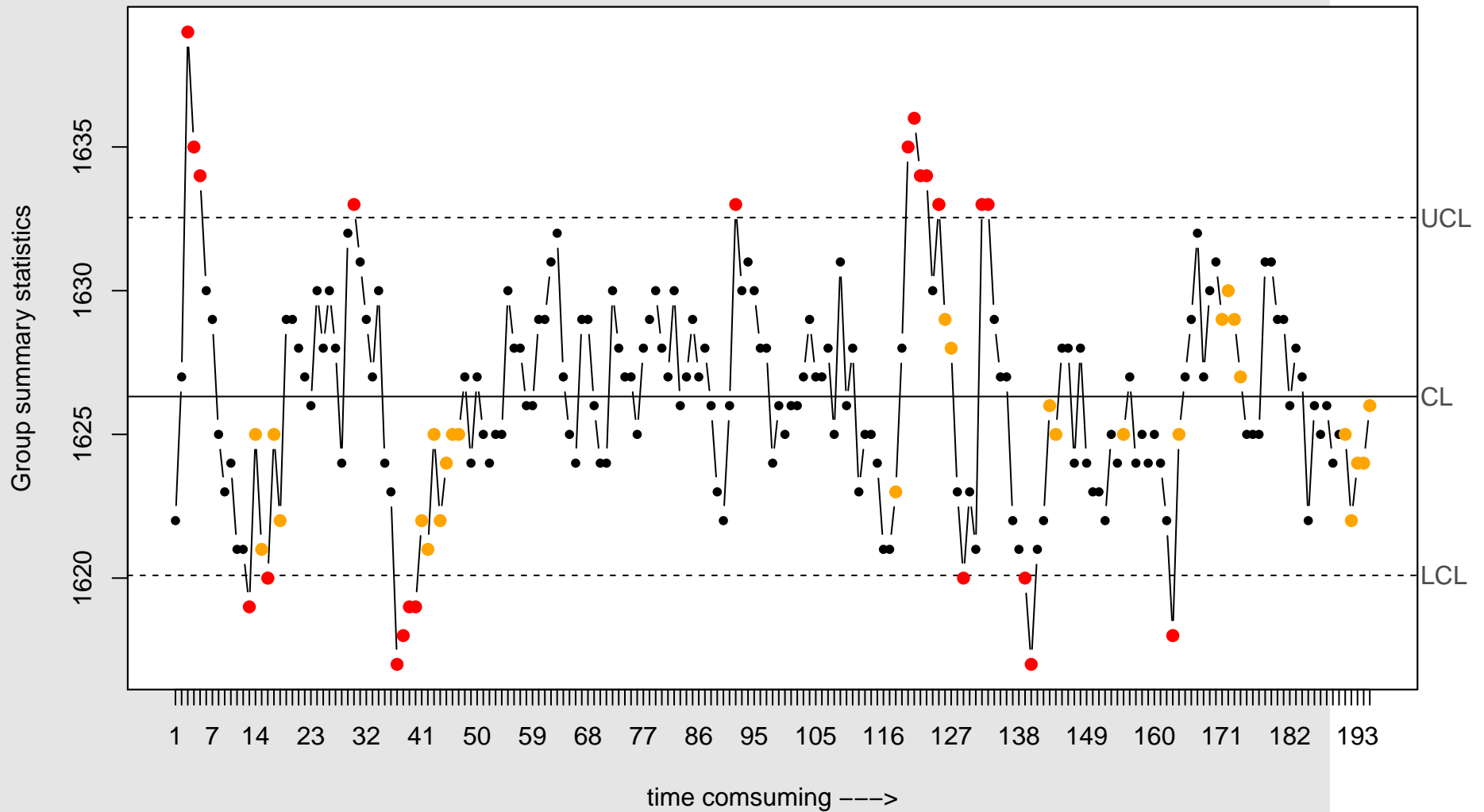
LCL = 1619.853

UCL = 1632.054

Number beyond limits = 17

Number violating runs = 41

64th column point of this product

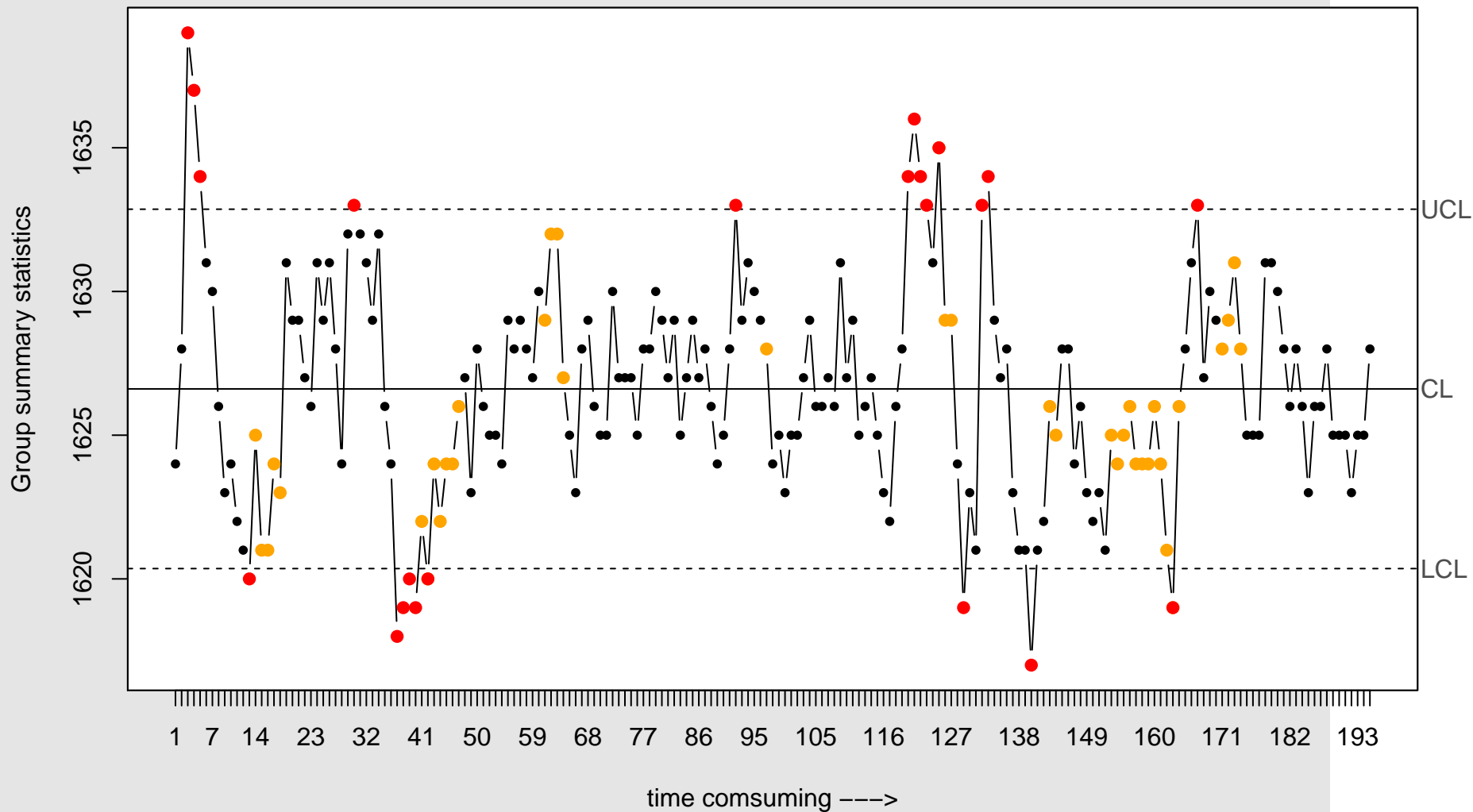


Number of groups = 195
Center = 1626.318
StdDev = 2.074651

LCL = 1620.094
UCL = 1632.542

Number beyond limits = 22
Number violating runs = 30

65th column point of this product



Number of groups = 195

Center = 1626.61

StdDev = 2.08379

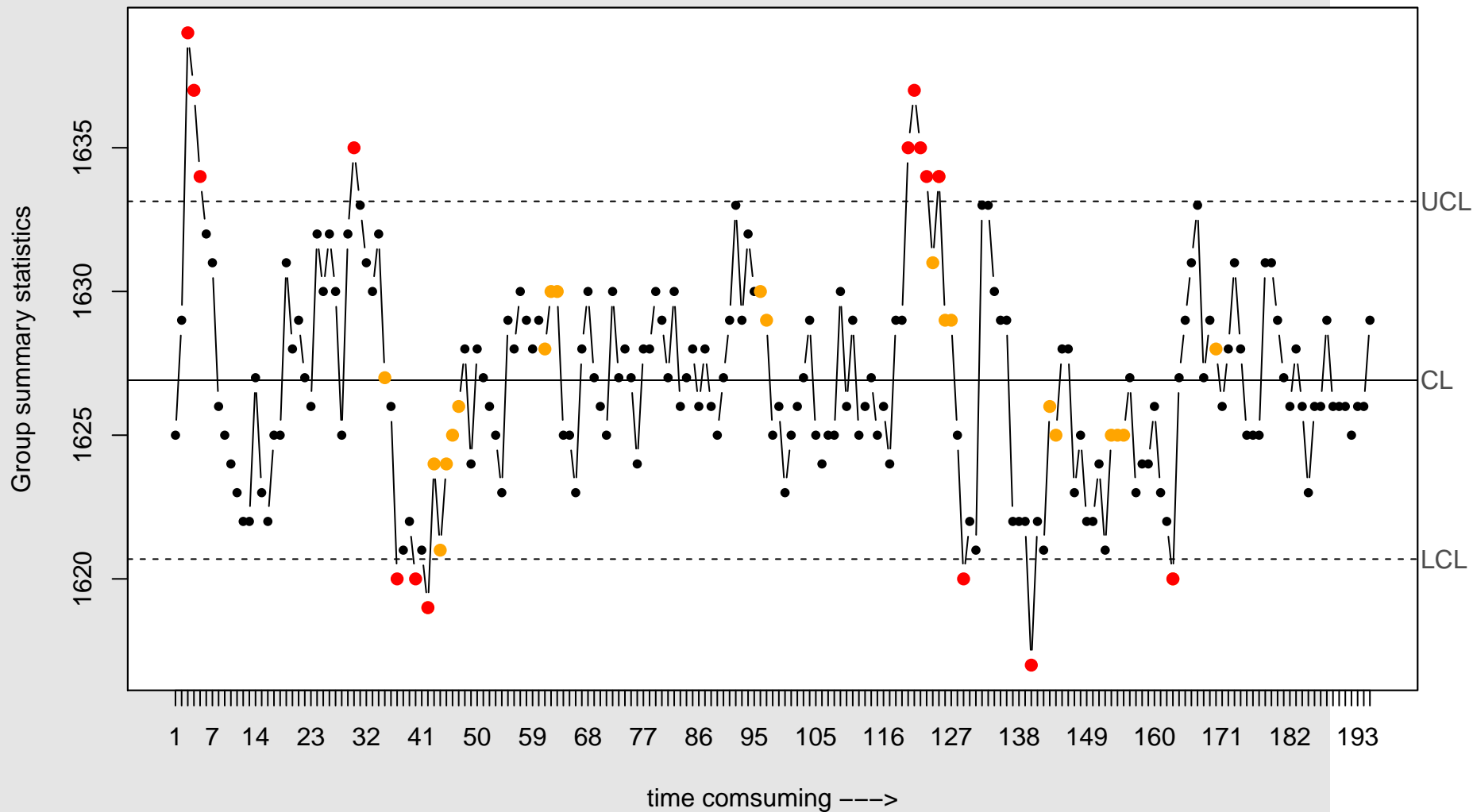
LCL = 1620.359

UCL = 1632.862

Number beyond limits = 22

Number violating runs = 38

66th column point of this product



Number of groups = 195

Center = 1626.913

StdDev = 2.074651

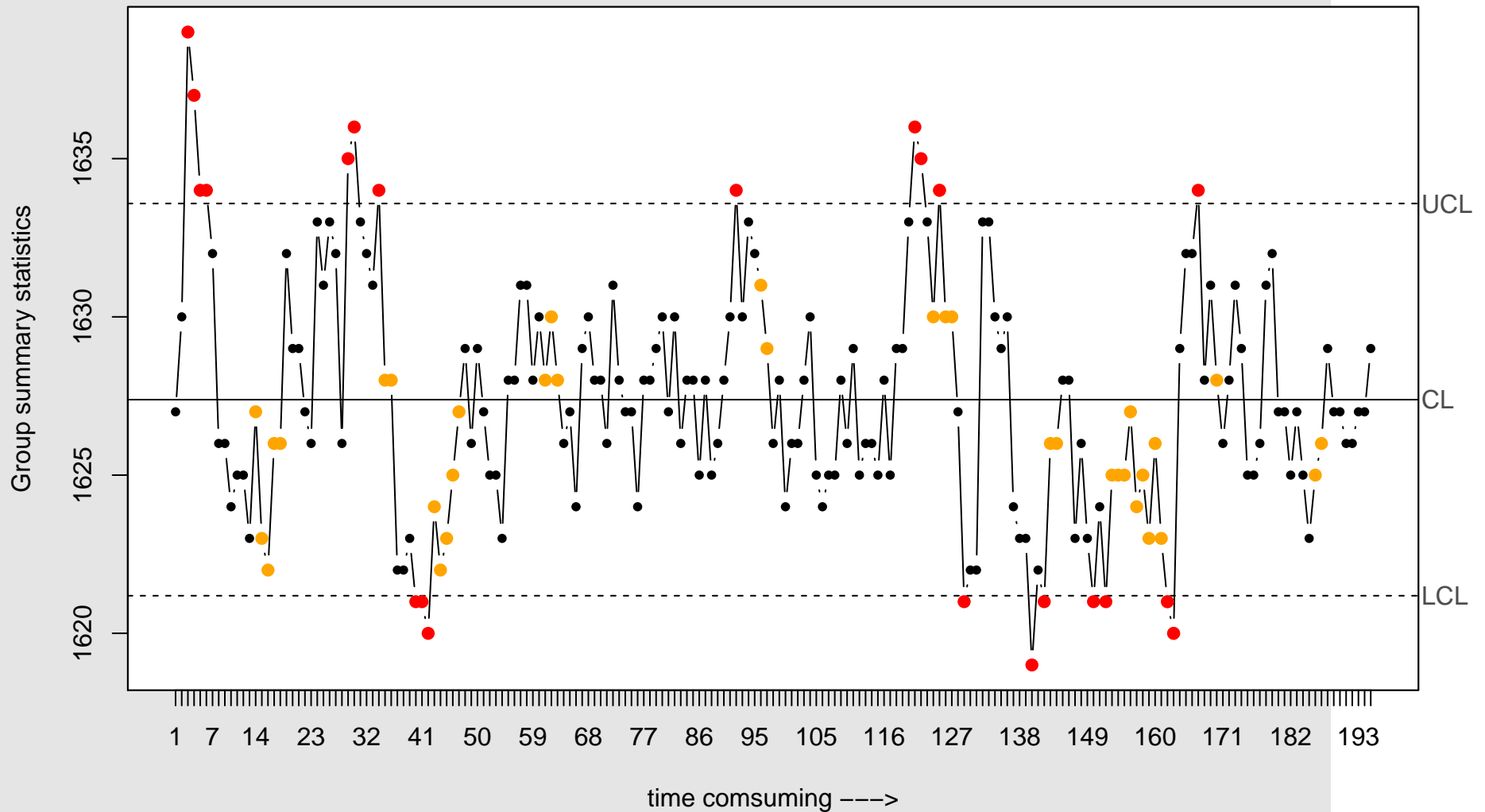
LCL = 1620.689

UCL = 1633.137

Number beyond limits = 15

Number violating runs = 23

67th column point of this product



Number of groups = 195

Center = 1627.385

StdDev = 2.065511

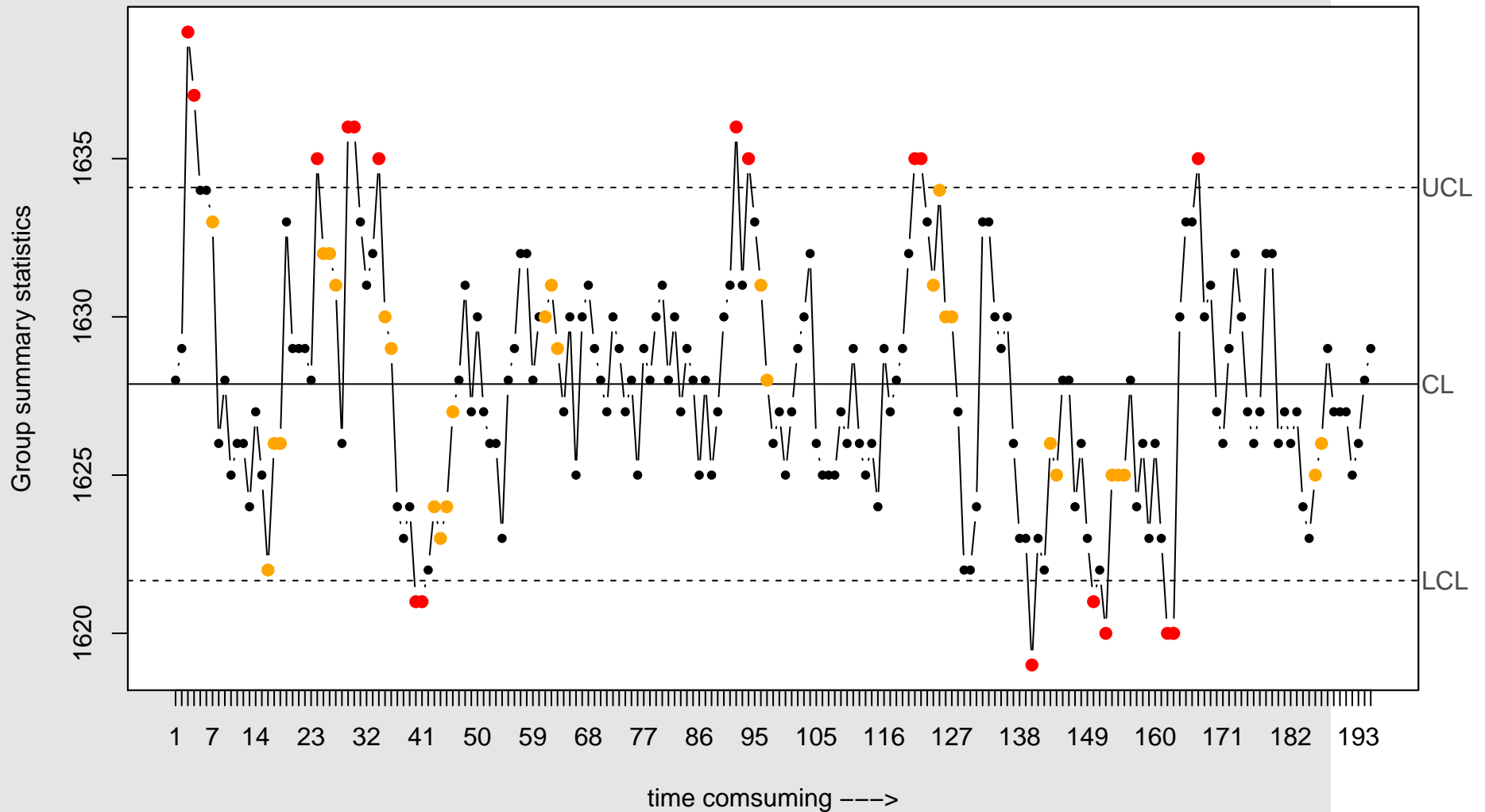
LCL = 1621.188

UCL = 1633.581

Number beyond limits = 22

Number violating runs = 37

68th column point of this product



Number of groups = 195

Center = 1627.877

StdDev = 2.070081

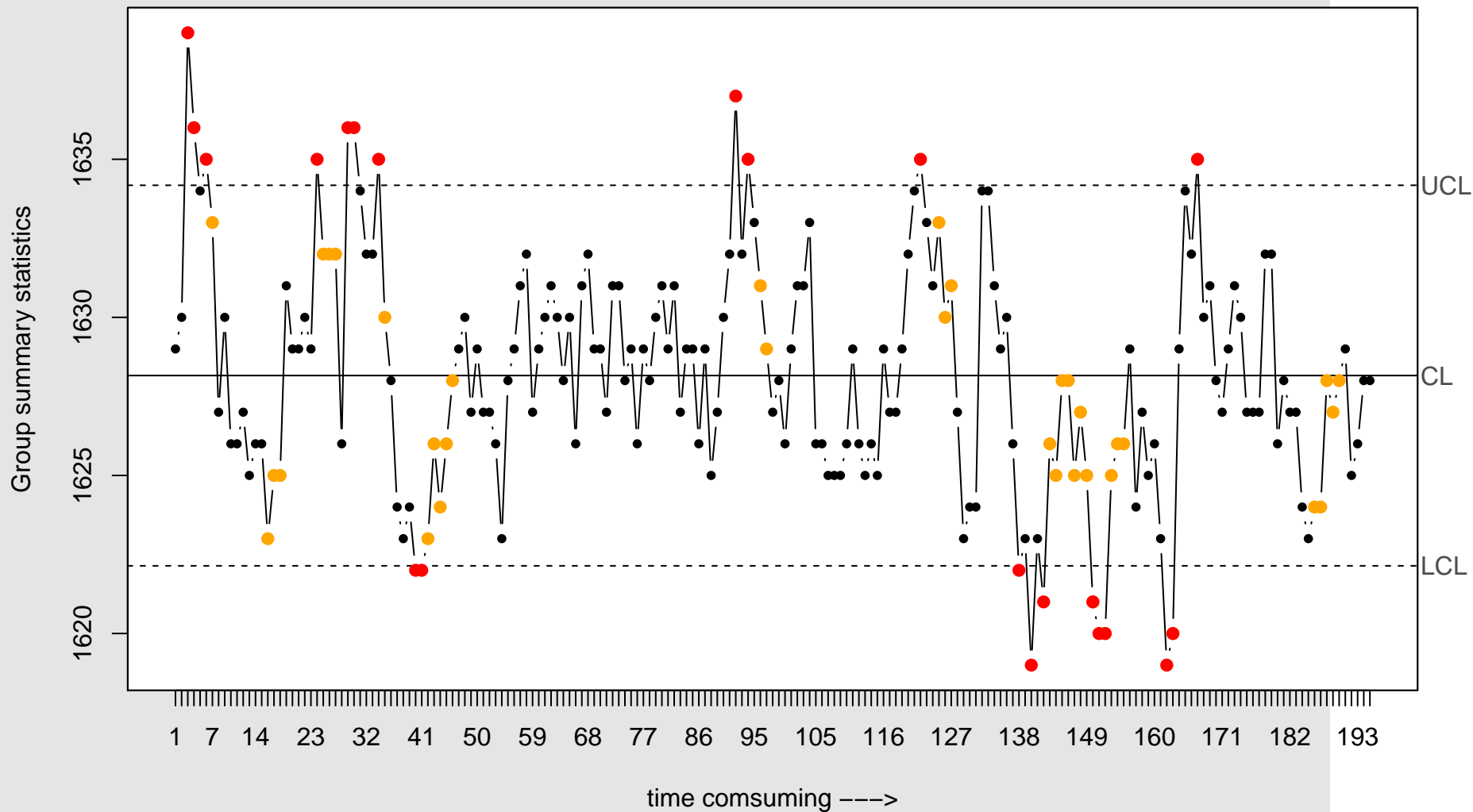
LCL = 1621.667

UCL = 1634.087

Number beyond limits = 18

Number violating runs = 30

69th column point of this product

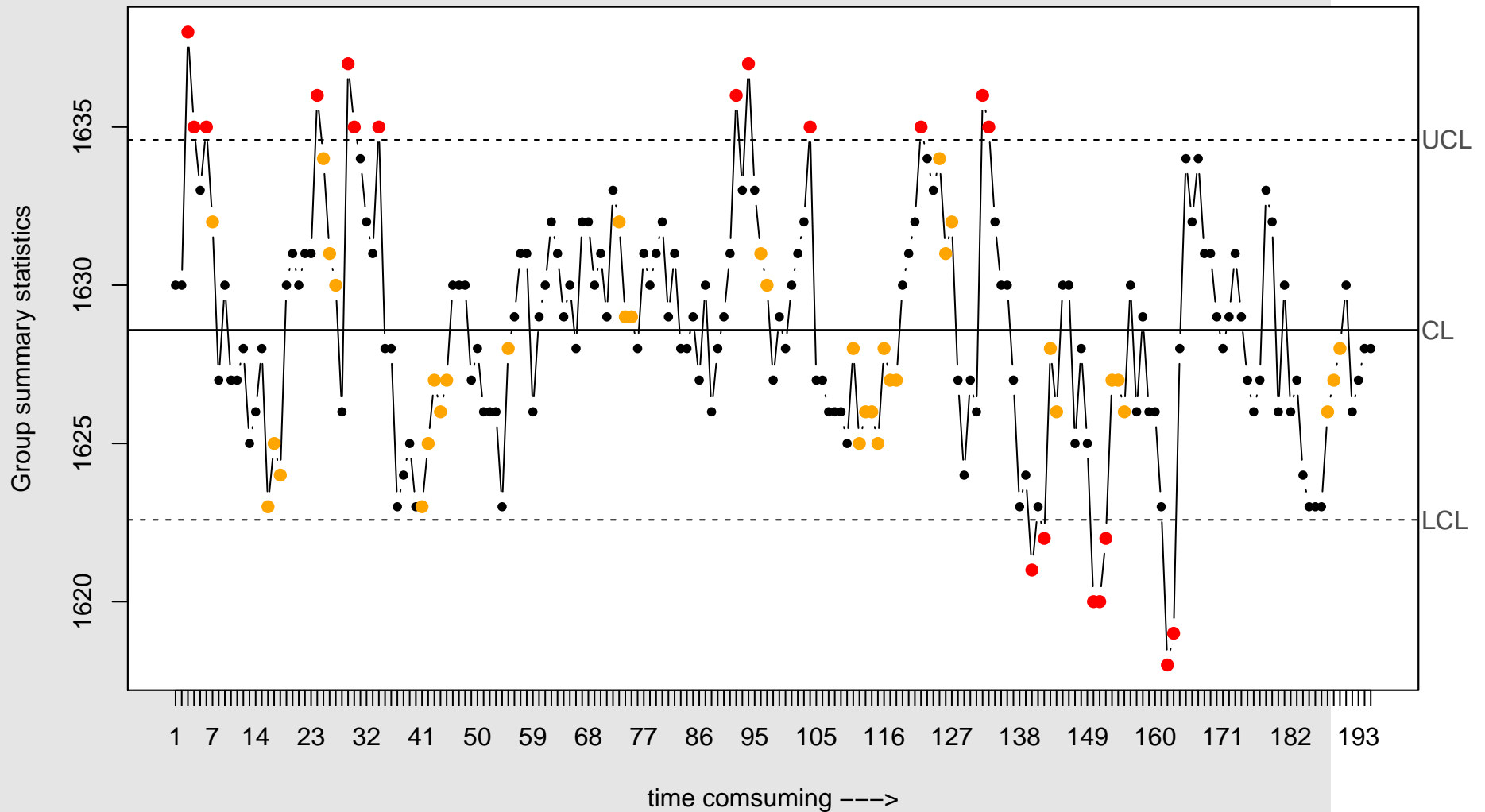


Number of groups = 195
Center = 1628.159
StdDev = 2.006105

LCL = 1622.141
UCL = 1634.177

Number beyond limits = 21
Number violating runs = 37

70th column point of this product



Number of groups = 195

Center = 1628.59

StdDev = 2.001535

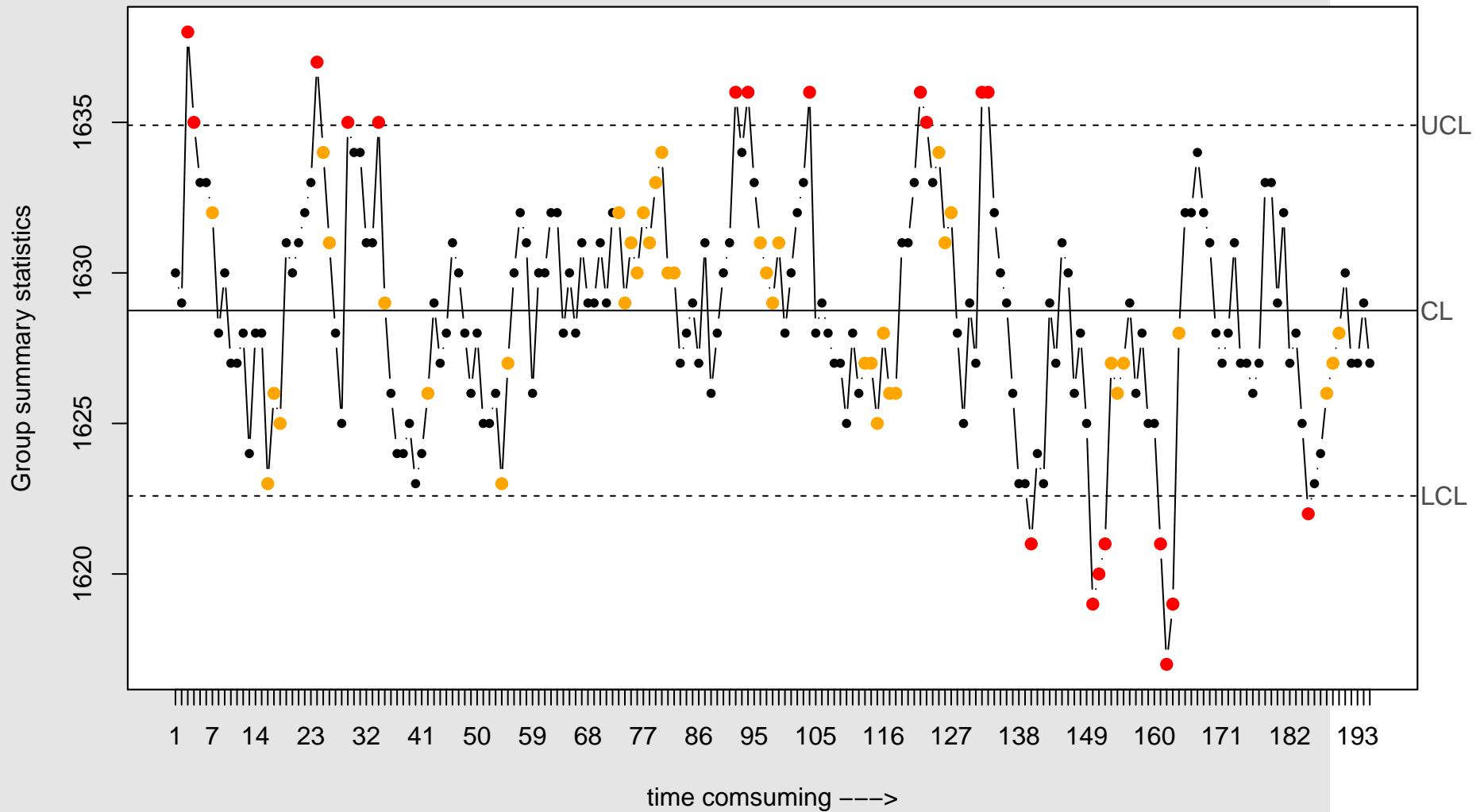
LCL = 1622.585

UCL = 1634.594

Number beyond limits = 20

Number violating runs = 37

71th column point of this product



Number of groups = 195

Center = 1628.749

StdDev = 2.051802

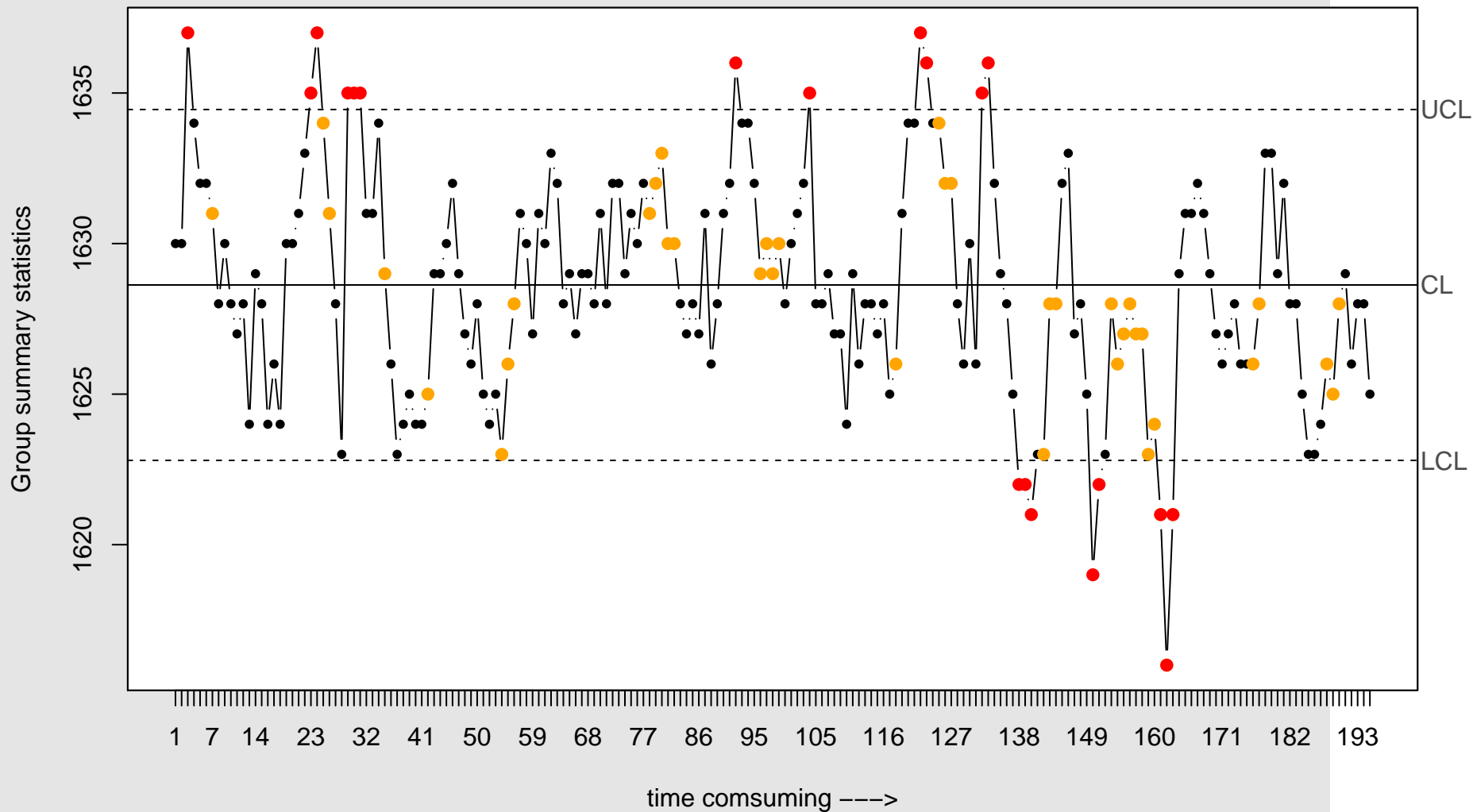
LCL = 1622.593

UCL = 1634.904

Number beyond limits = 20

Number violating runs = 41

72th column point of this product



Number of groups = 195

Center = 1628.626

StdDev = 1.942129

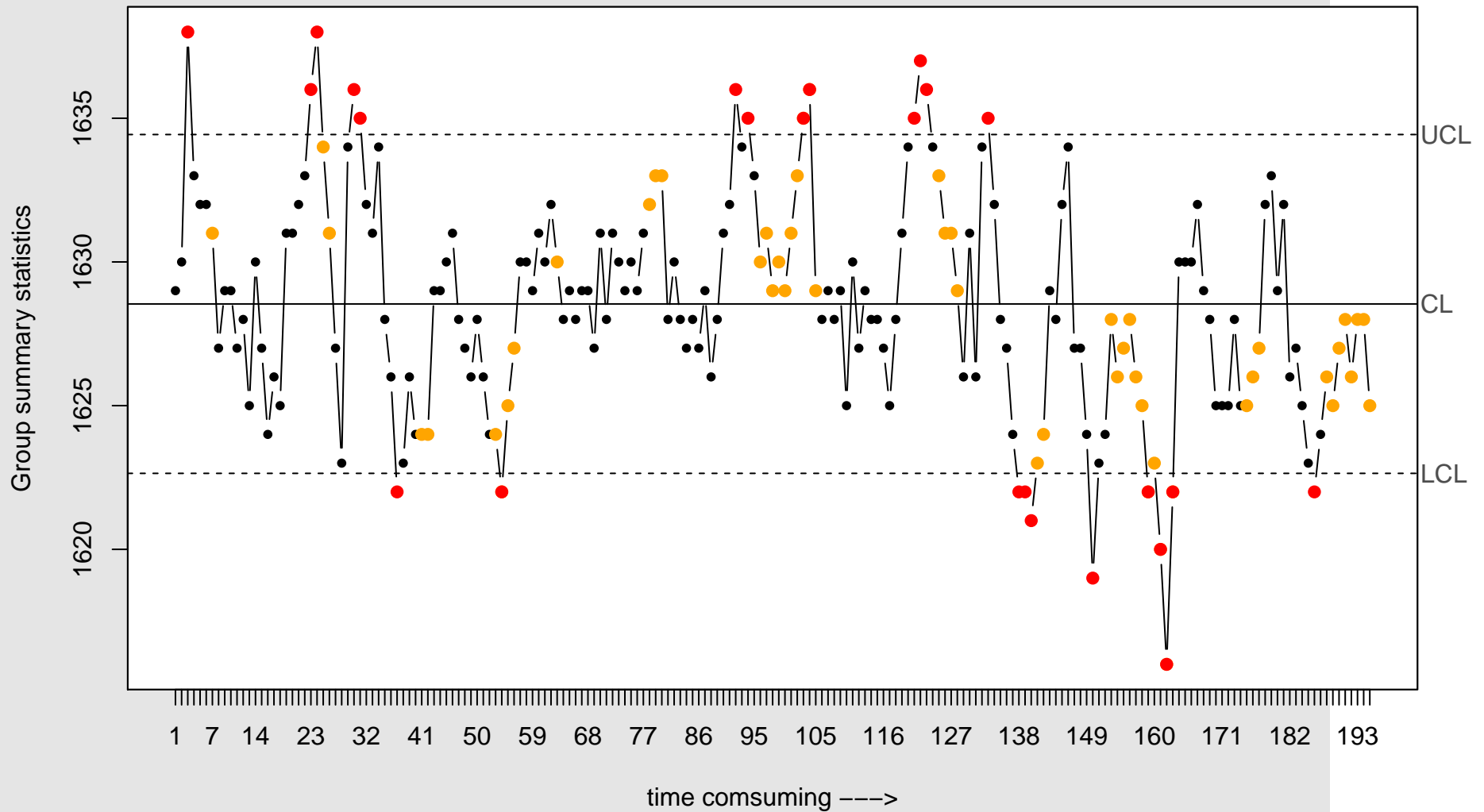
LCL = 1622.799

UCL = 1634.452

Number beyond limits = 20

Number violating runs = 40

73th column point of this product



Number of groups = 195

Center = 1628.538

StdDev = 1.964978

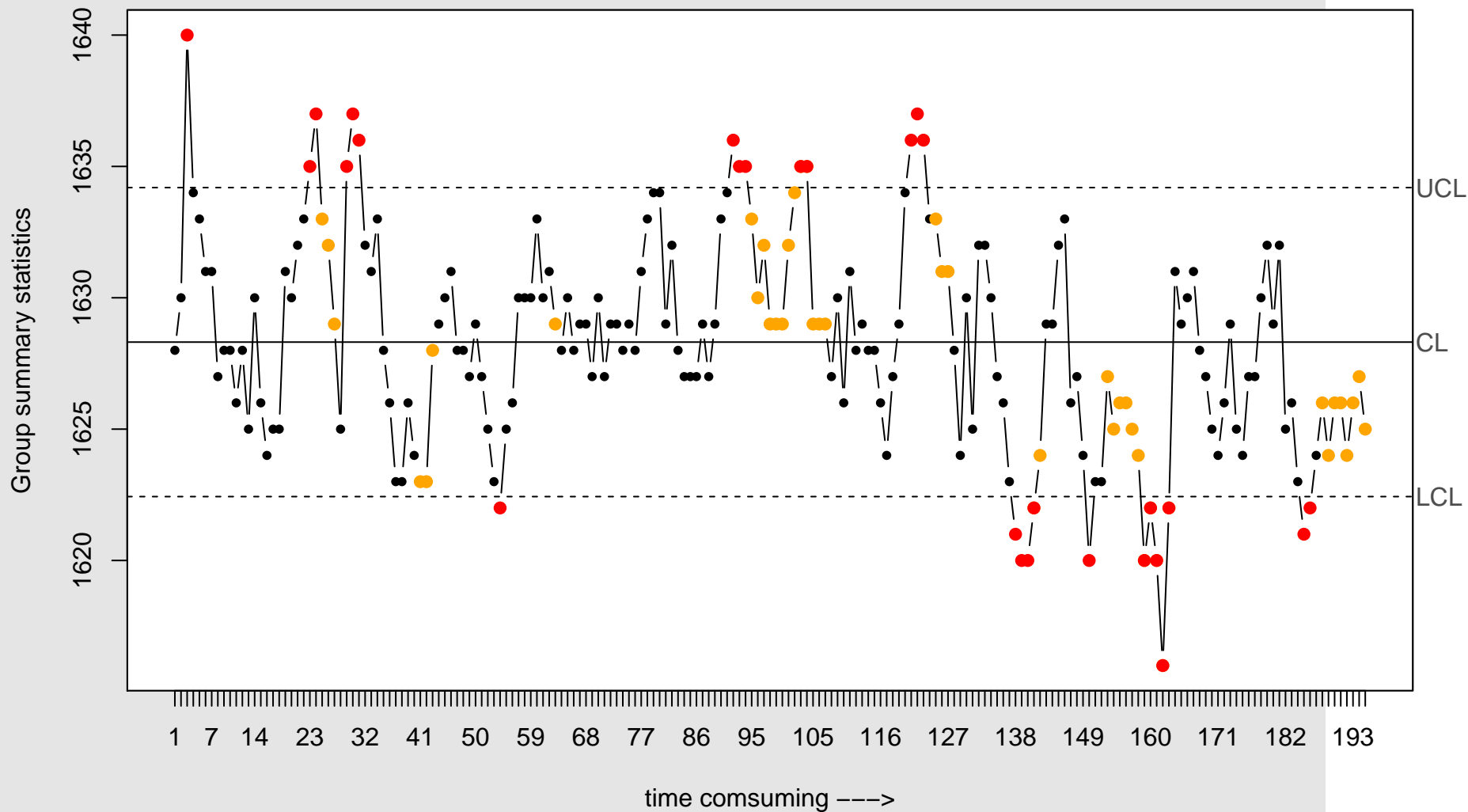
LCL = 1622.644

UCL = 1634.433

Number beyond limits = 24

Number violating runs = 51

74th column point of this product



Number of groups = 195

Center = 1628.313

StdDev = 1.960408

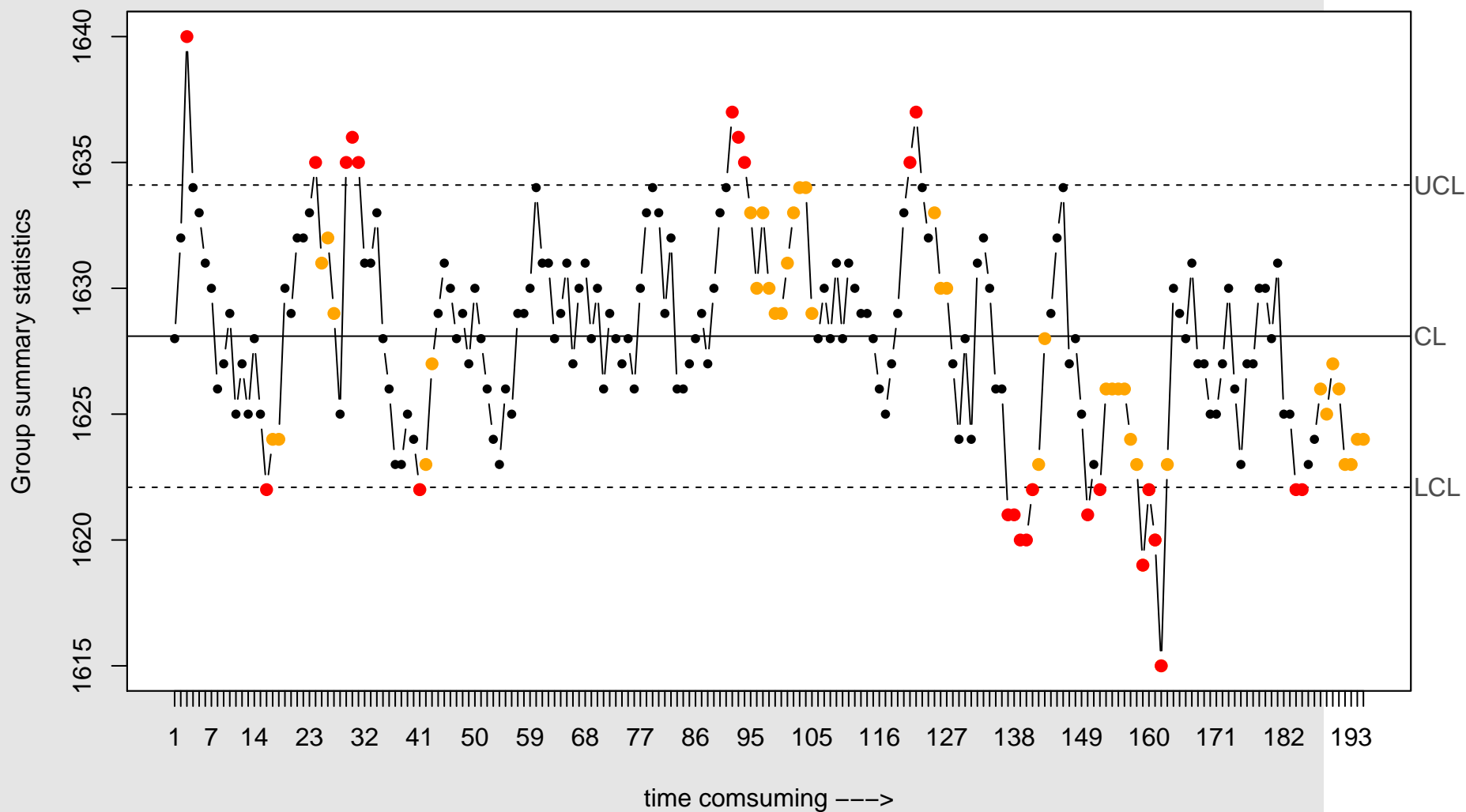
LCL = 1622.432

UCL = 1634.194

Number beyond limits = 27

Number violating runs = 44

75th column point of this product



Number of groups = 195

Center = 1628.097

StdDev = 2.001535

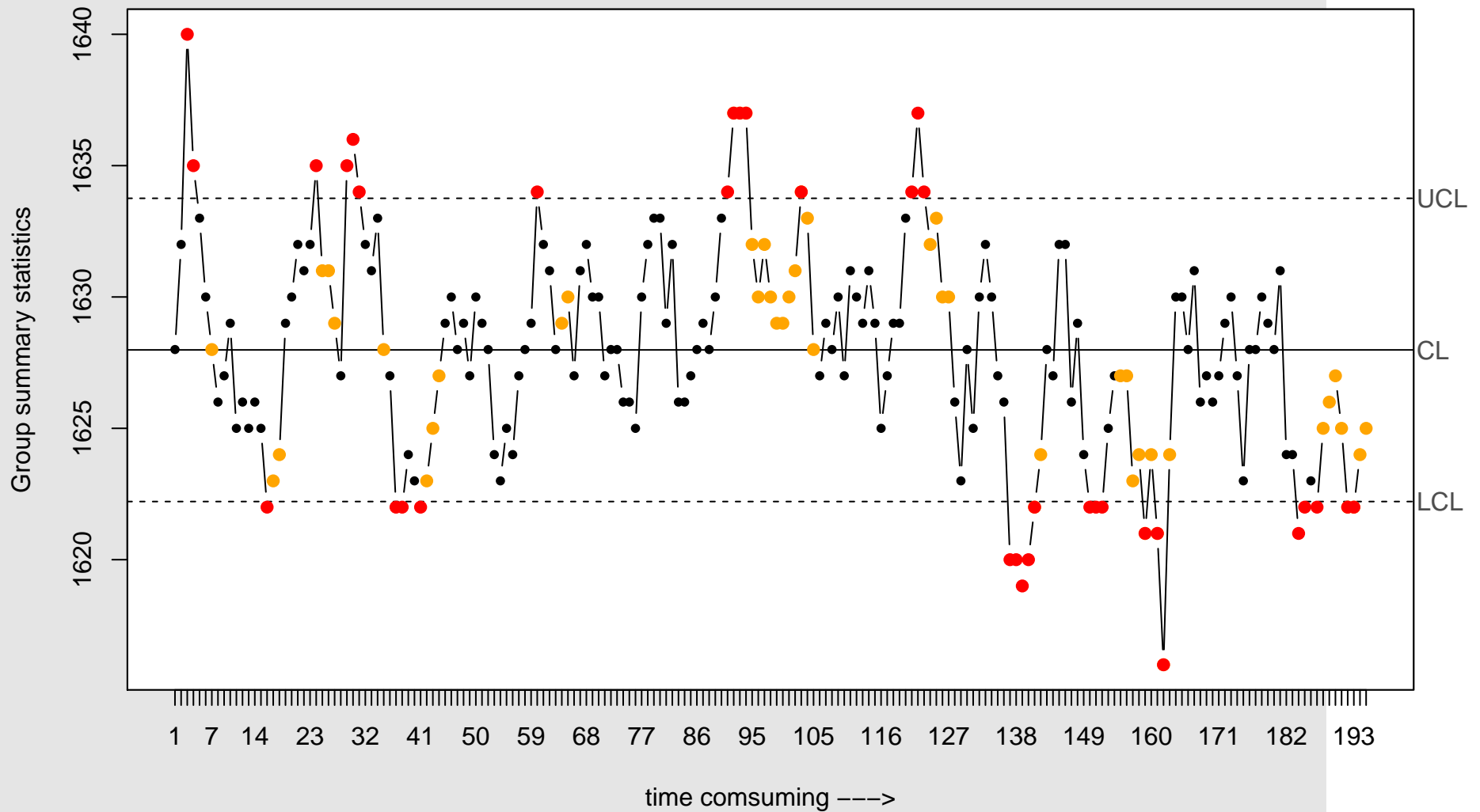
LCL = 1622.093

UCL = 1634.102

Number beyond limits = 25

Number violating runs = 44

76th column point of this product



Number of groups = 195

Center = 1627.985

StdDev = 1.92385

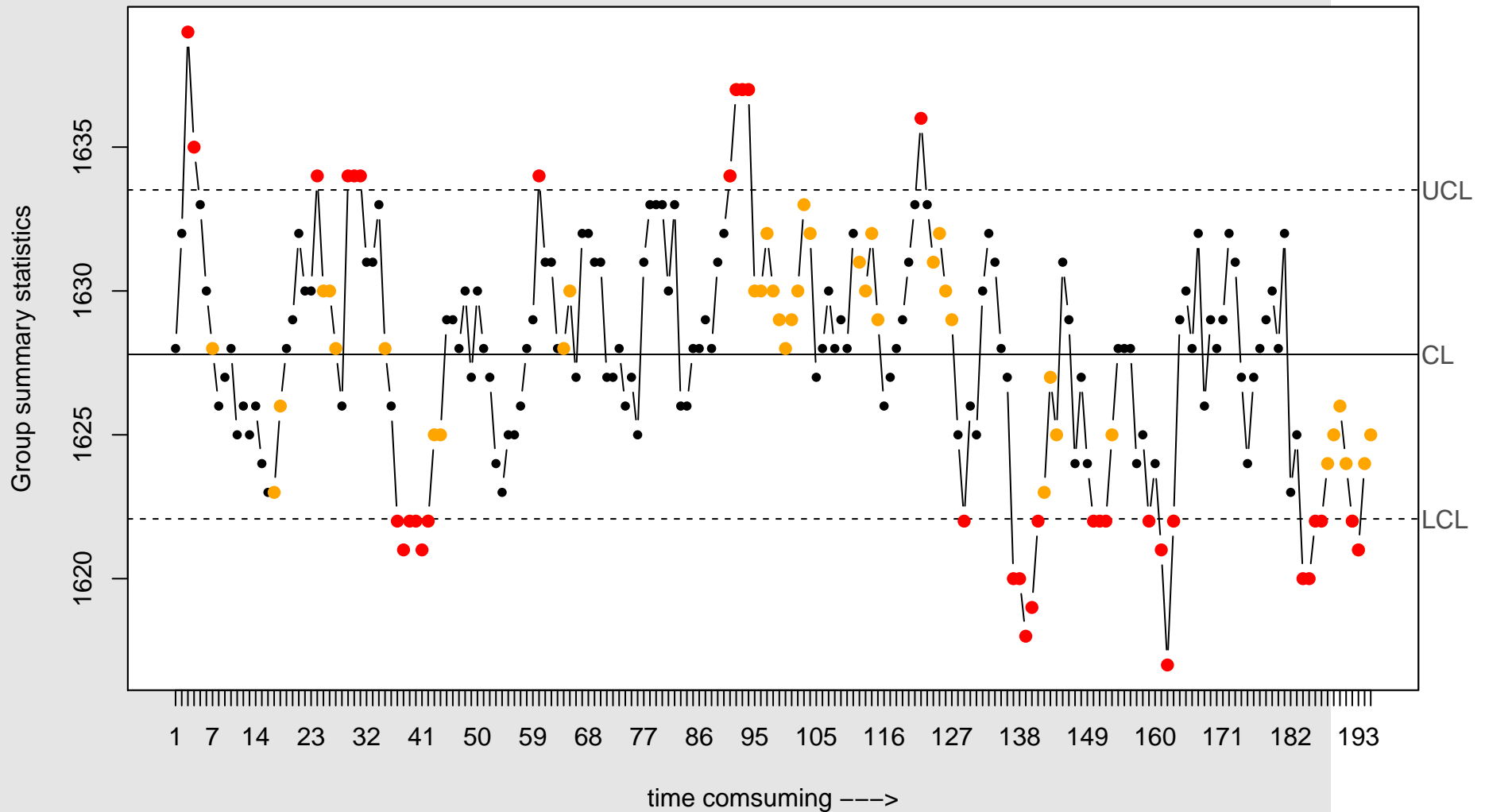
LCL = 1622.213

UCL = 1633.756

Number beyond limits = 35

Number violating runs = 49

77th column point of this product

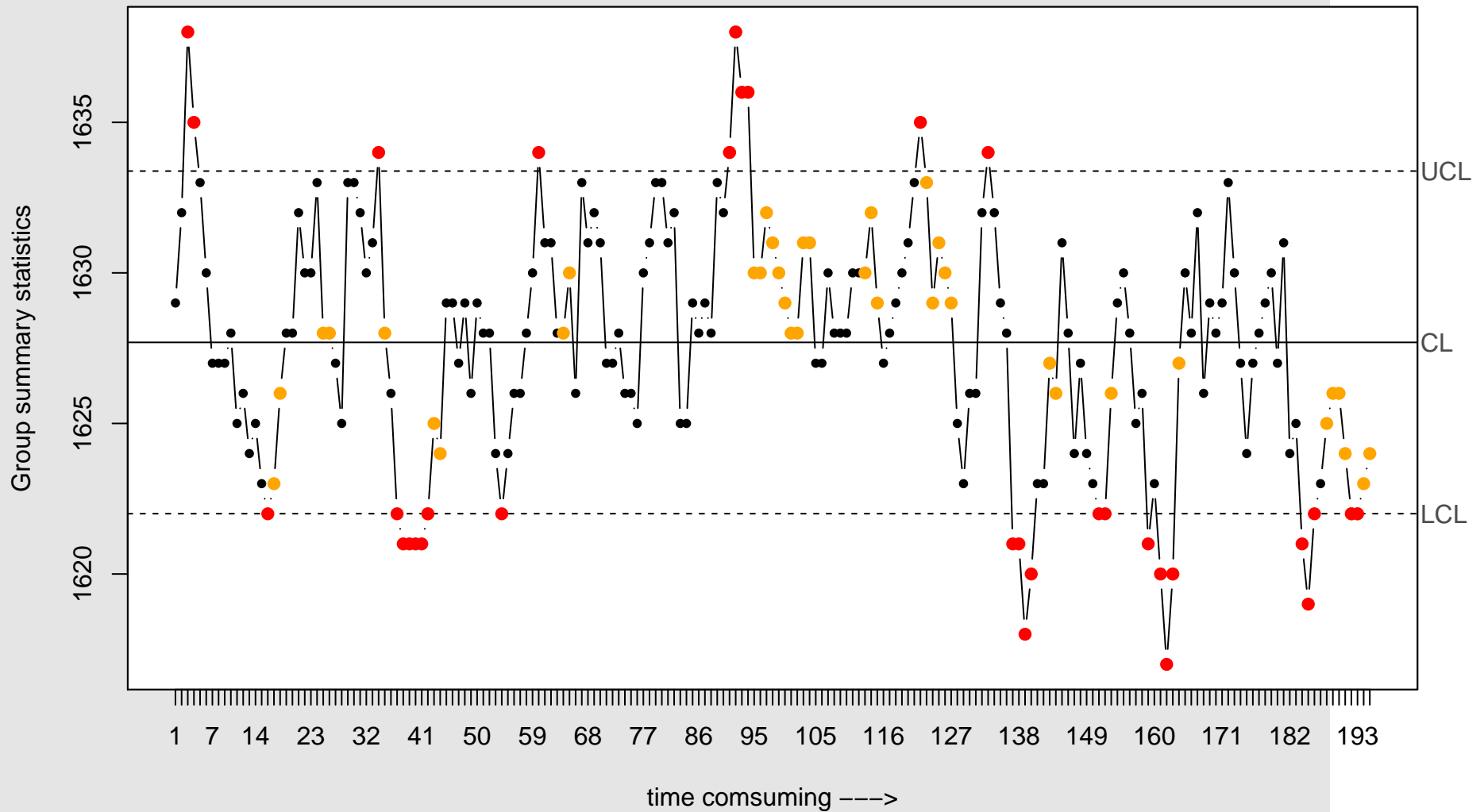


Number of groups = 195
Center = 1627.795
StdDev = 1.905571

LCL = 1622.078
UCL = 1633.512

Number beyond limits = 37
Number violating runs = 47

78th column point of this product



Number of groups = 195

Center = 1627.692

StdDev = 1.896432

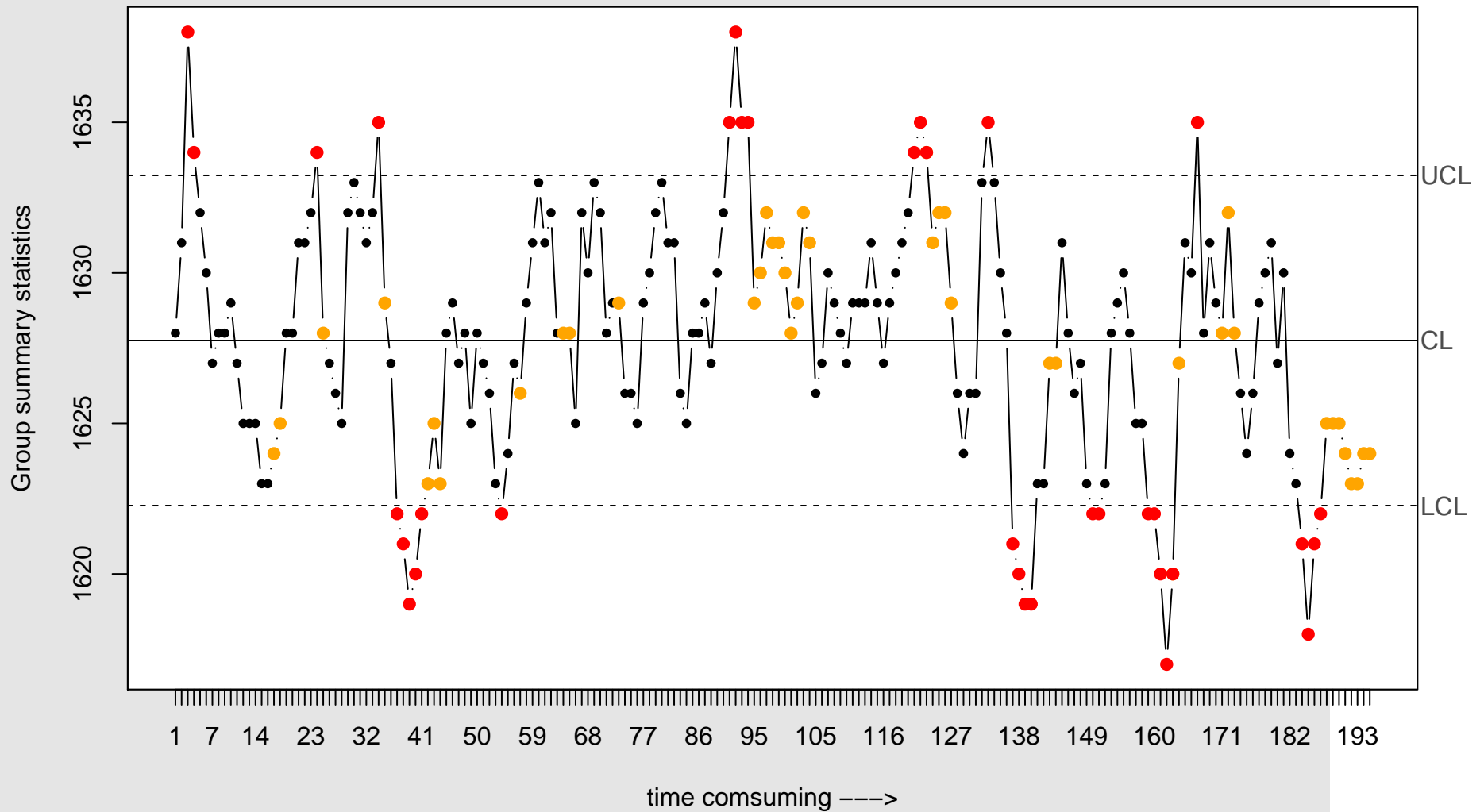
LCL = 1622.003

UCL = 1633.382

Number beyond limits = 33

Number violating runs = 45

79th column point of this product



Number of groups = 195

Center = 1627.754

StdDev = 1.827886

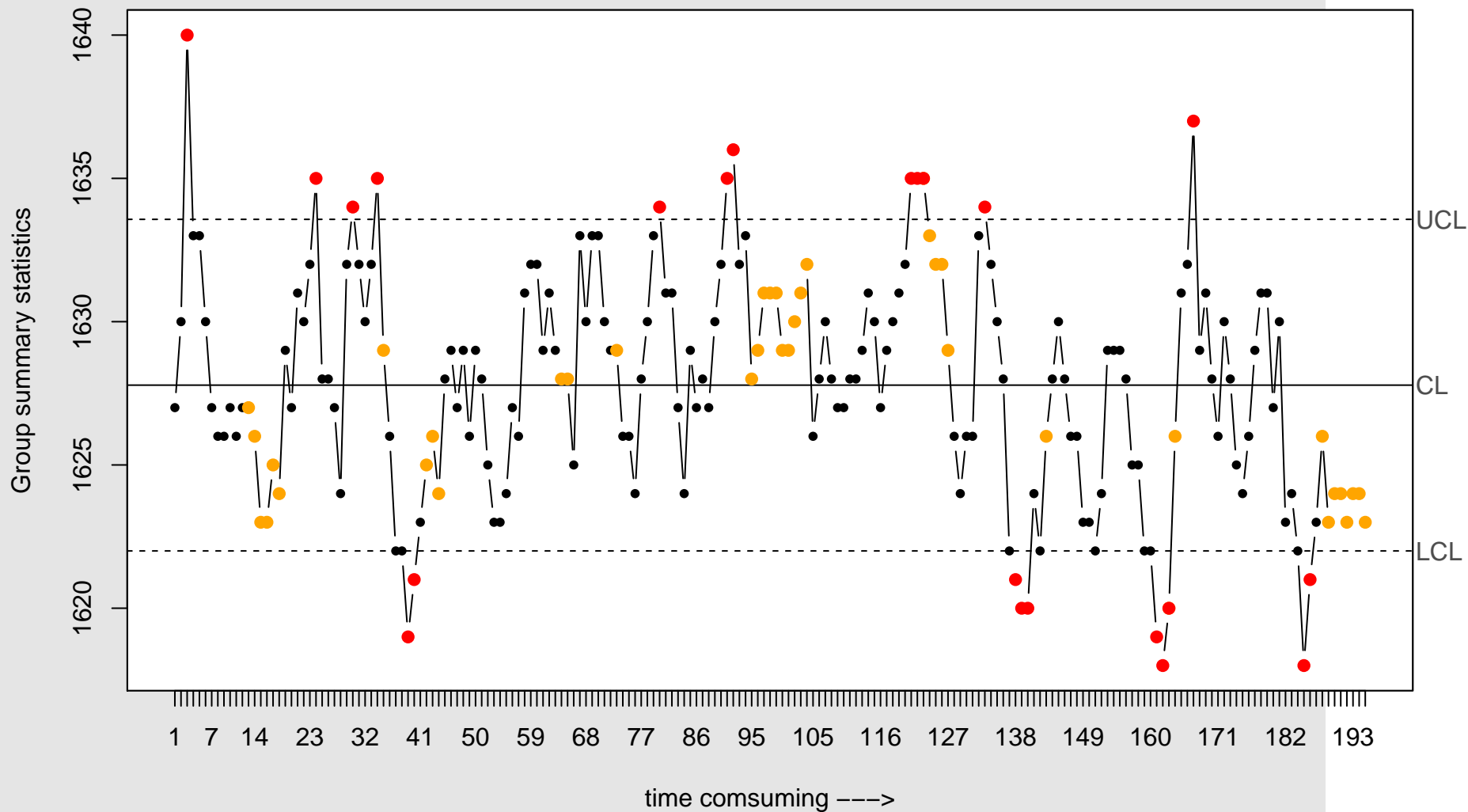
LCL = 1622.27

UCL = 1633.238

Number beyond limits = 34

Number violating runs = 41

80th column point of this product

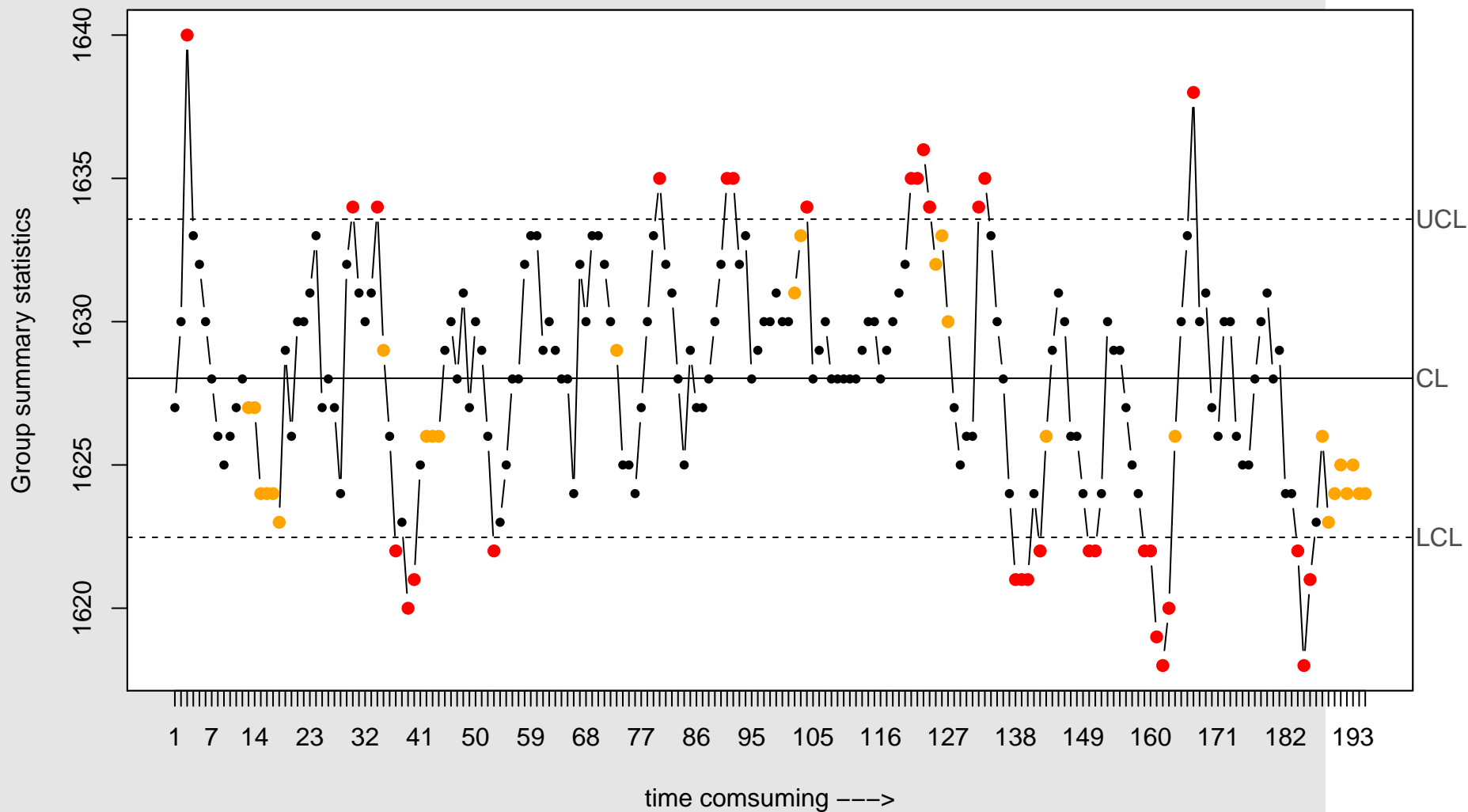


Number of groups = 195
 Center = 1627.785
 StdDev = 1.92842

LCL = 1621.999
 UCL = 1633.57

Number beyond limits = 22
 Number violating runs = 39

81th column point of this product

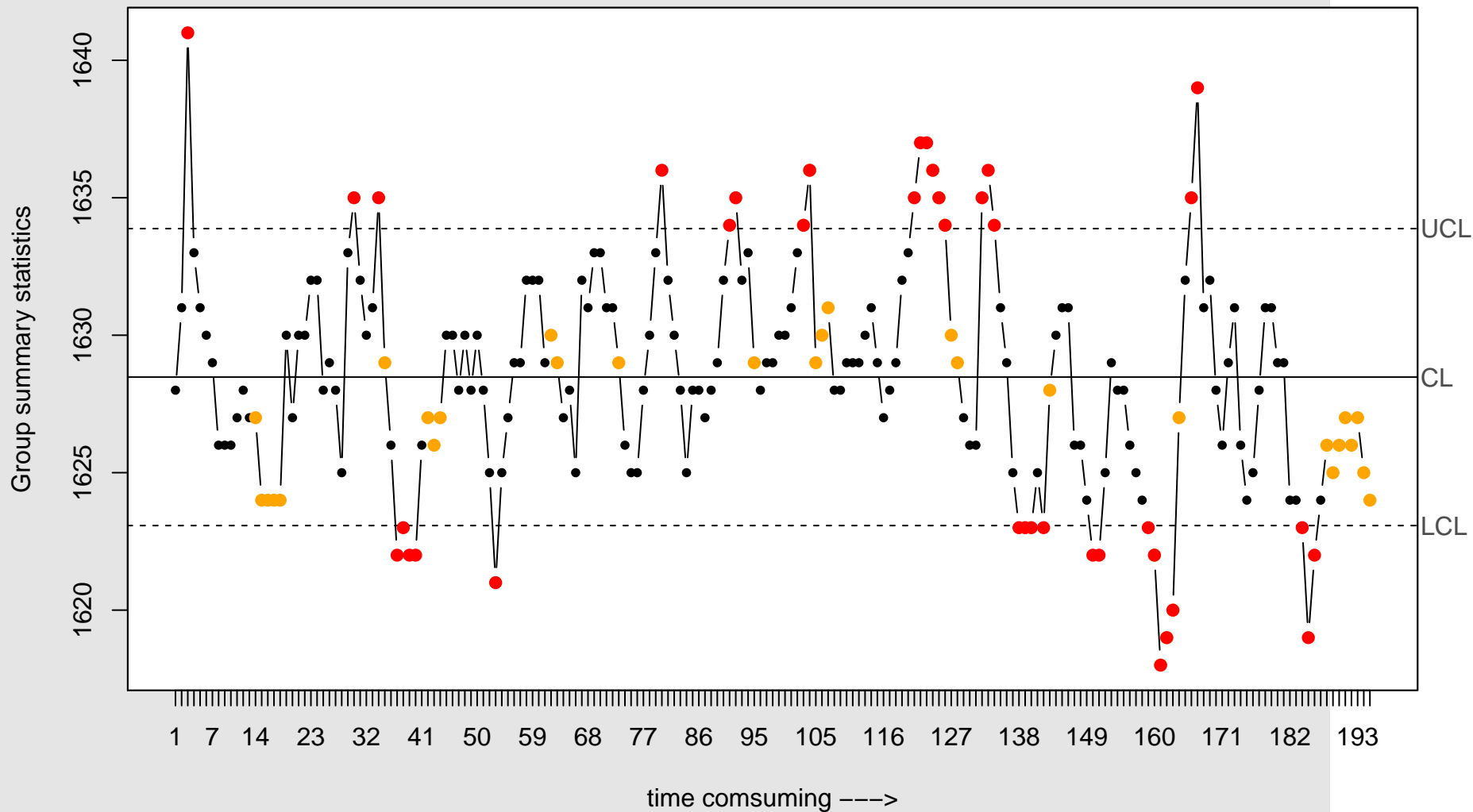


Number of groups = 195
Center = 1628.026
StdDev = 1.850735

LCL = 1622.473
UCL = 1633.578

Number beyond limits = 32
Number violating runs = 32

82th column point of this product

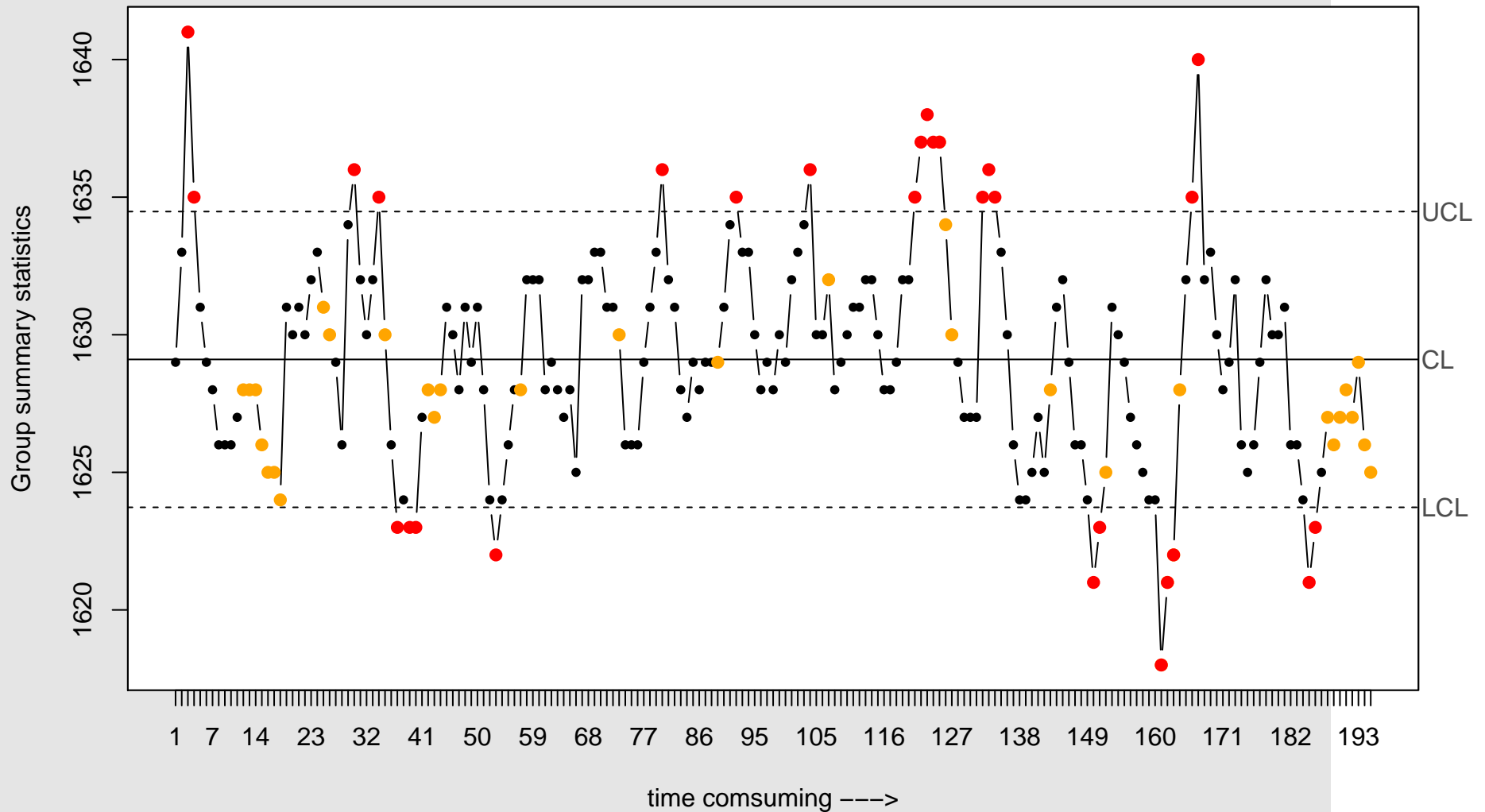


Number of groups = 195
Center = 1628.477
StdDev = 1.800468

LCL = 1623.076
UCL = 1633.878

Number beyond limits = 38
Number violating runs = 37

83th column point of this product



Number of groups = 195

Center = 1629.103

StdDev = 1.791329

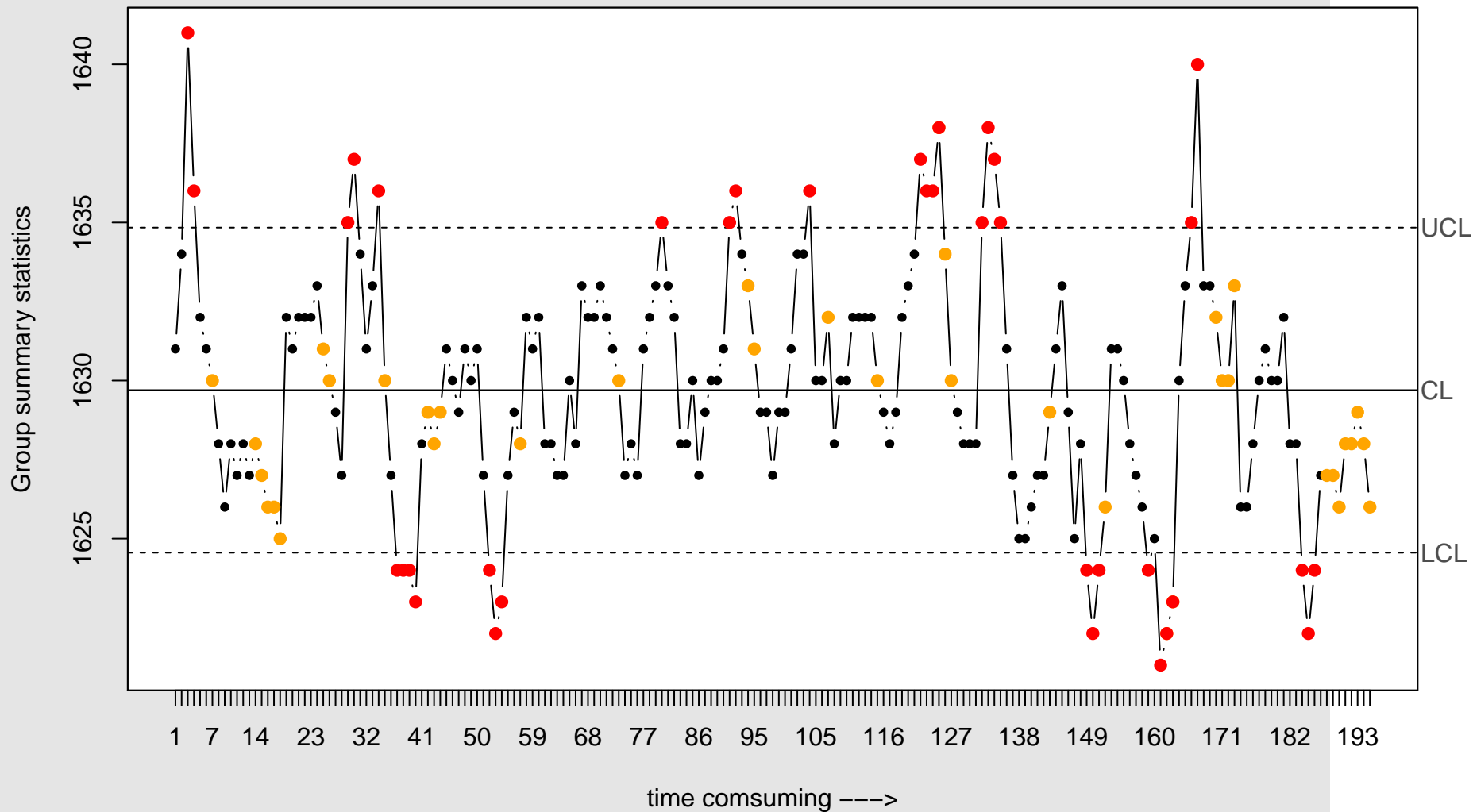
LCL = 1623.729

UCL = 1634.477

Number beyond limits = 28

Number violating runs = 34

84th column point of this product



Number of groups = 195

Center = 1629.697

StdDev = 1.713643

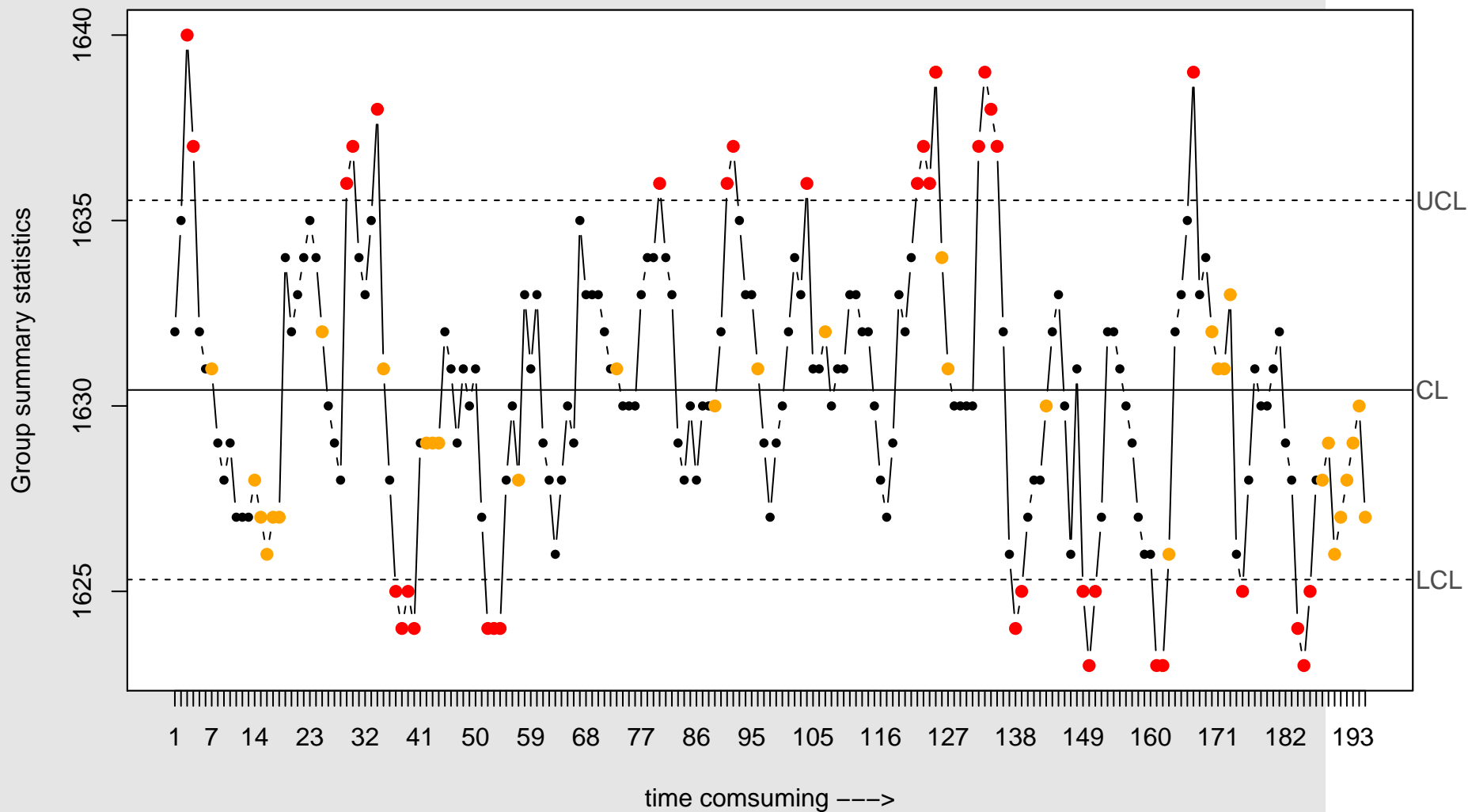
LCL = 1624.557

UCL = 1634.838

Number beyond limits = 36

Number violating runs = 37

85th column point of this product



Number of groups = 195

Center = 1630.431

StdDev = 1.704504

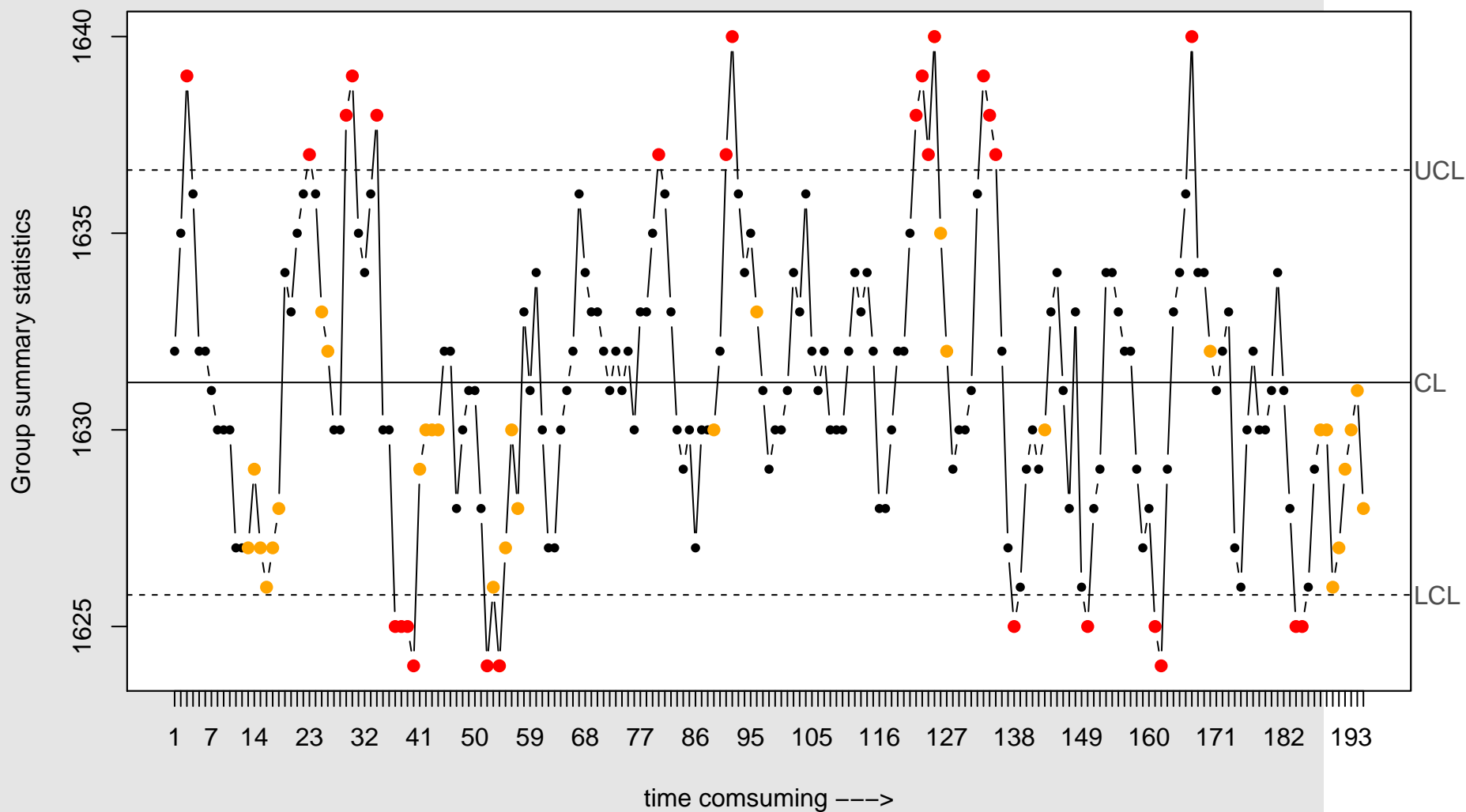
LCL = 1625.317

UCL = 1635.544

Number beyond limits = 36

Number violating runs = 34

86th column point of this product

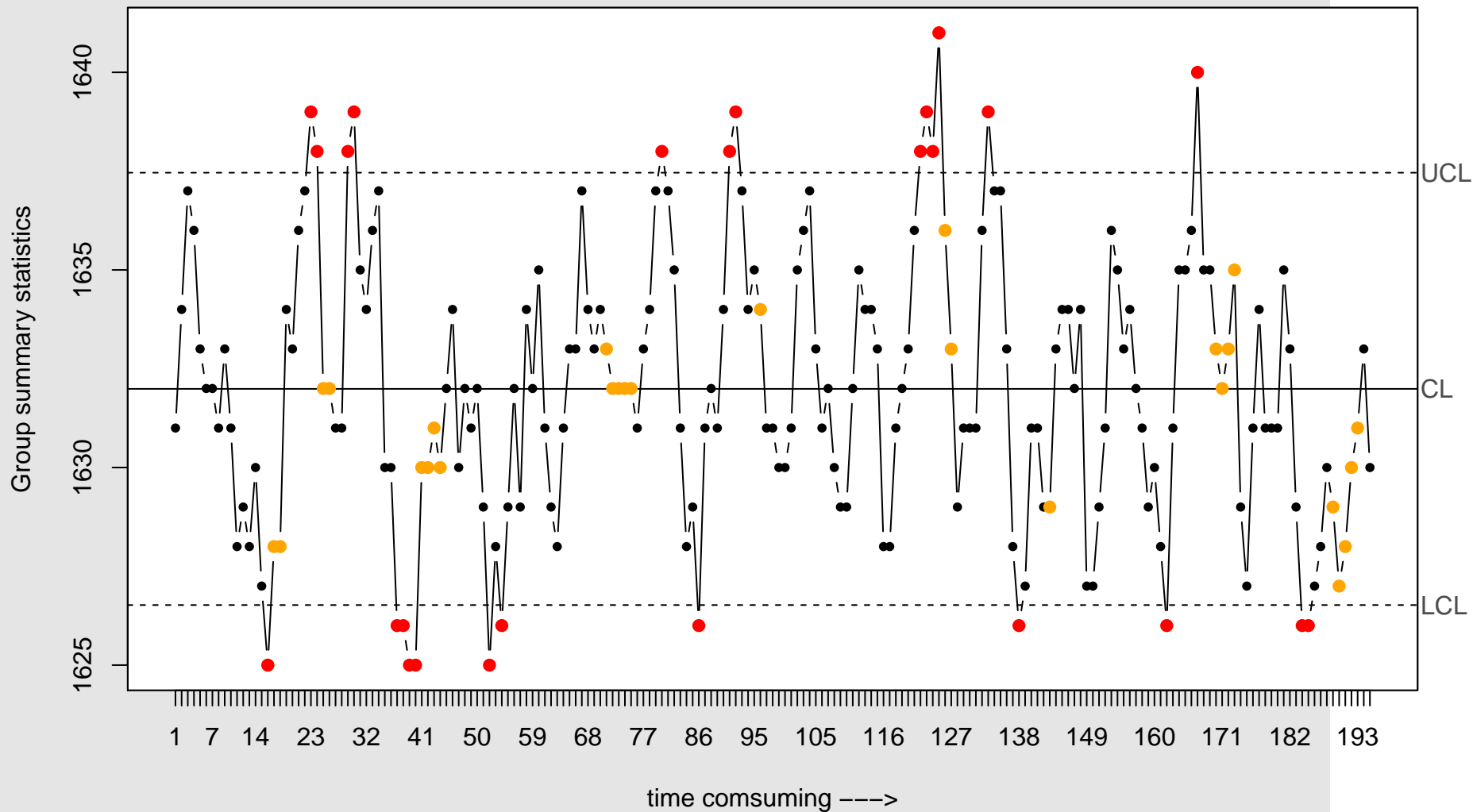


Number of groups = 195
 Center = 1631.205
 StdDev = 1.800468

LCL = 1625.804
 UCL = 1636.607

Number beyond limits = 28
 Number violating runs = 32

87th column point of this product



Number of groups = 195

Center = 1631.99

StdDev = 1.823317

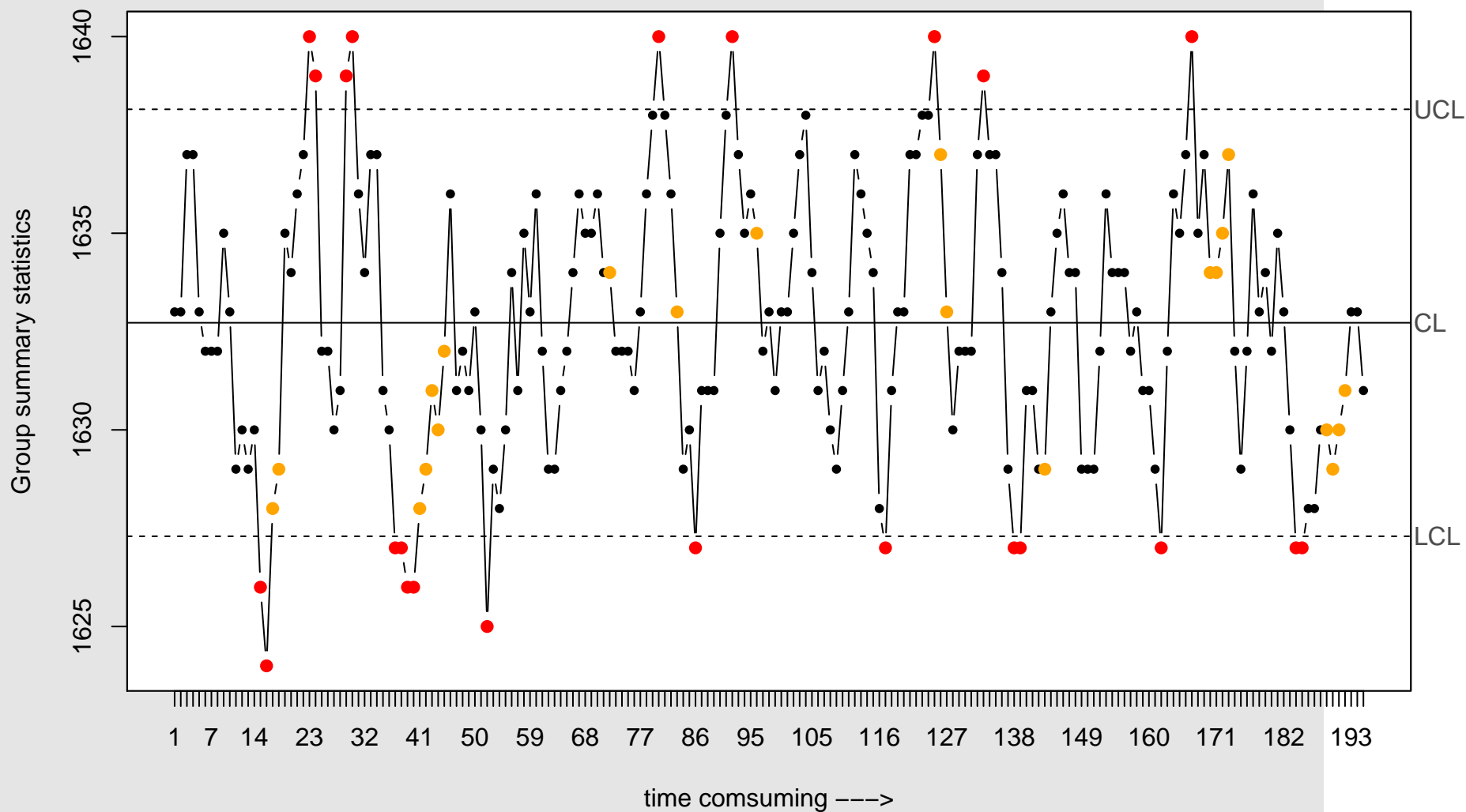
LCL = 1626.52

UCL = 1637.46

Number beyond limits = 25

Number violating runs = 28

88th column point of this product

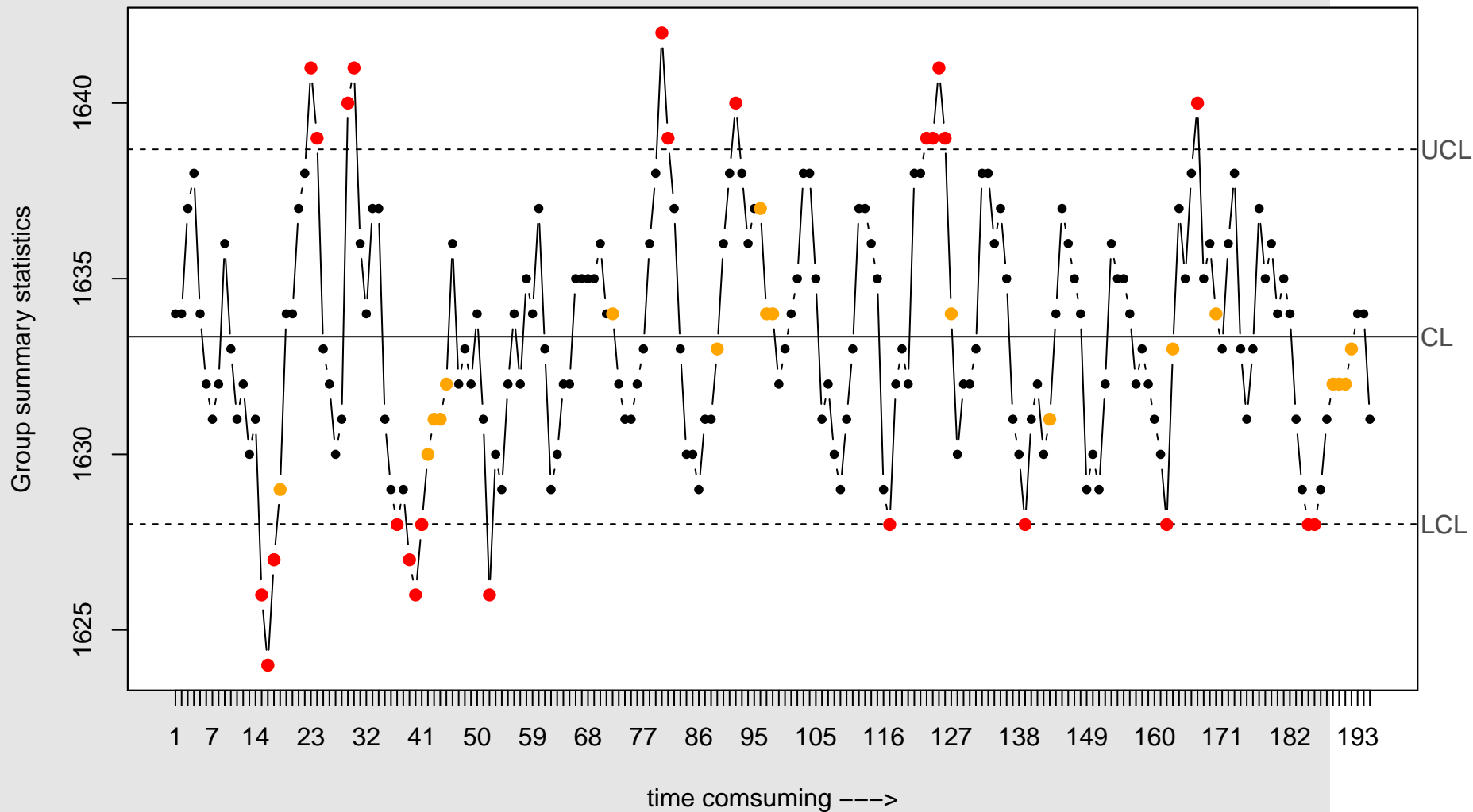


Number of groups = 195
Center = 1632.723
StdDev = 1.809607

LCL = 1627.294
UCL = 1638.152

Number beyond limits = 23
Number violating runs = 22

89th column point of this product



Number of groups = 195

Center = 1633.349

StdDev = 1.777619

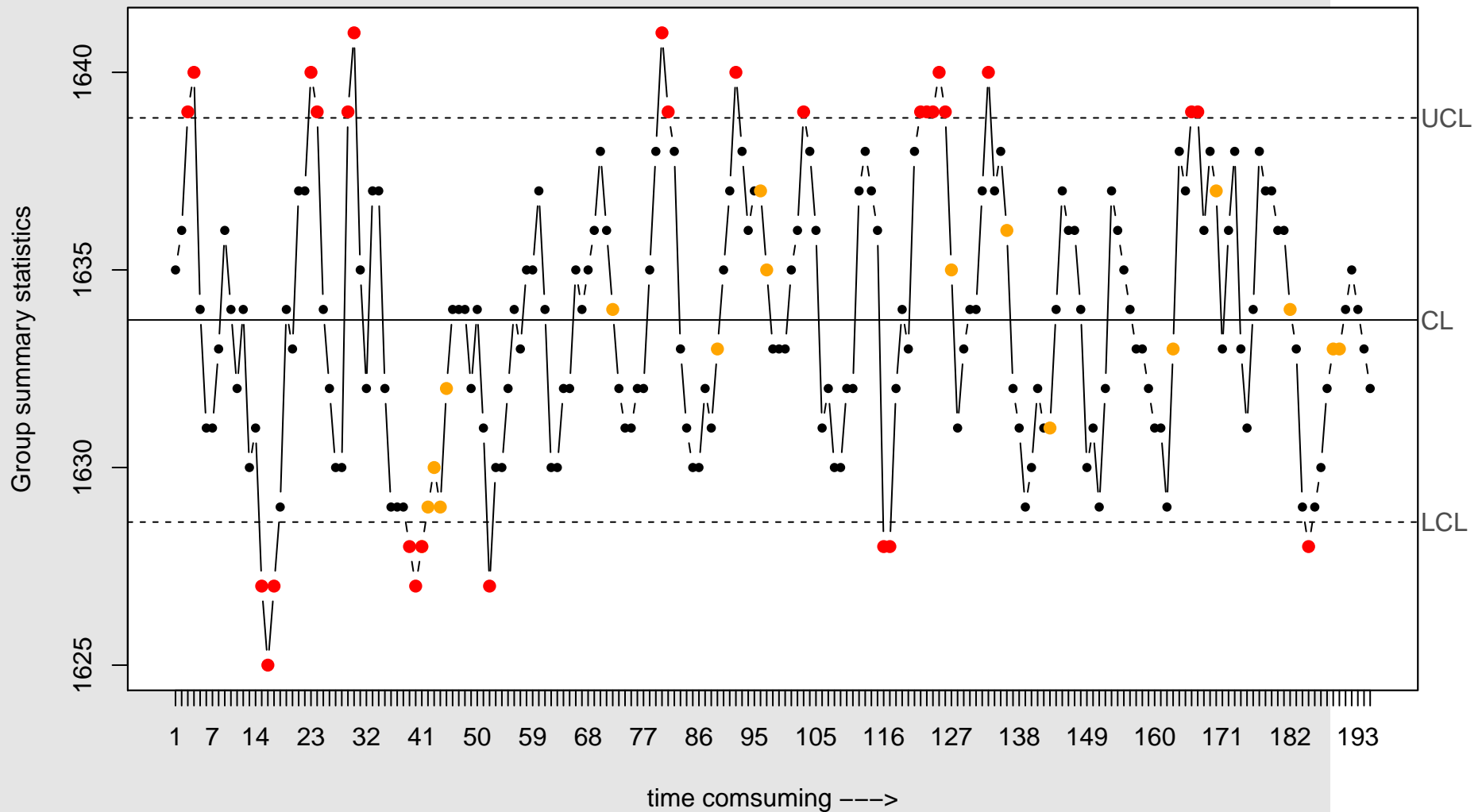
LCL = 1628.016

UCL = 1638.682

Number beyond limits = 25

Number violating runs = 21

90th column point of this product



Number of groups = 195

Center = 1633.733

StdDev = 1.704504

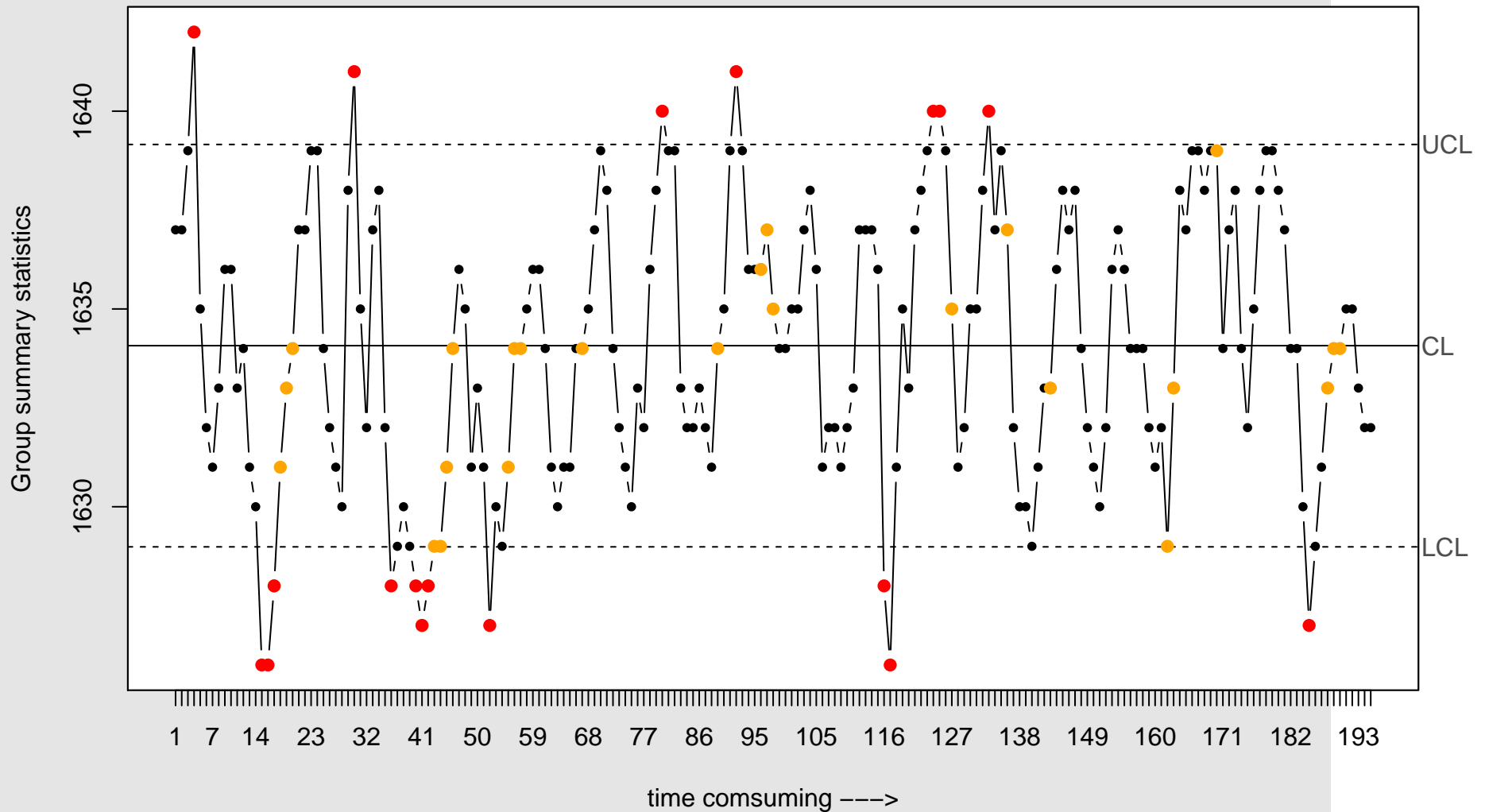
LCL = 1628.62

UCL = 1638.847

Number beyond limits = 28

Number violating runs = 17

91th column point of this product

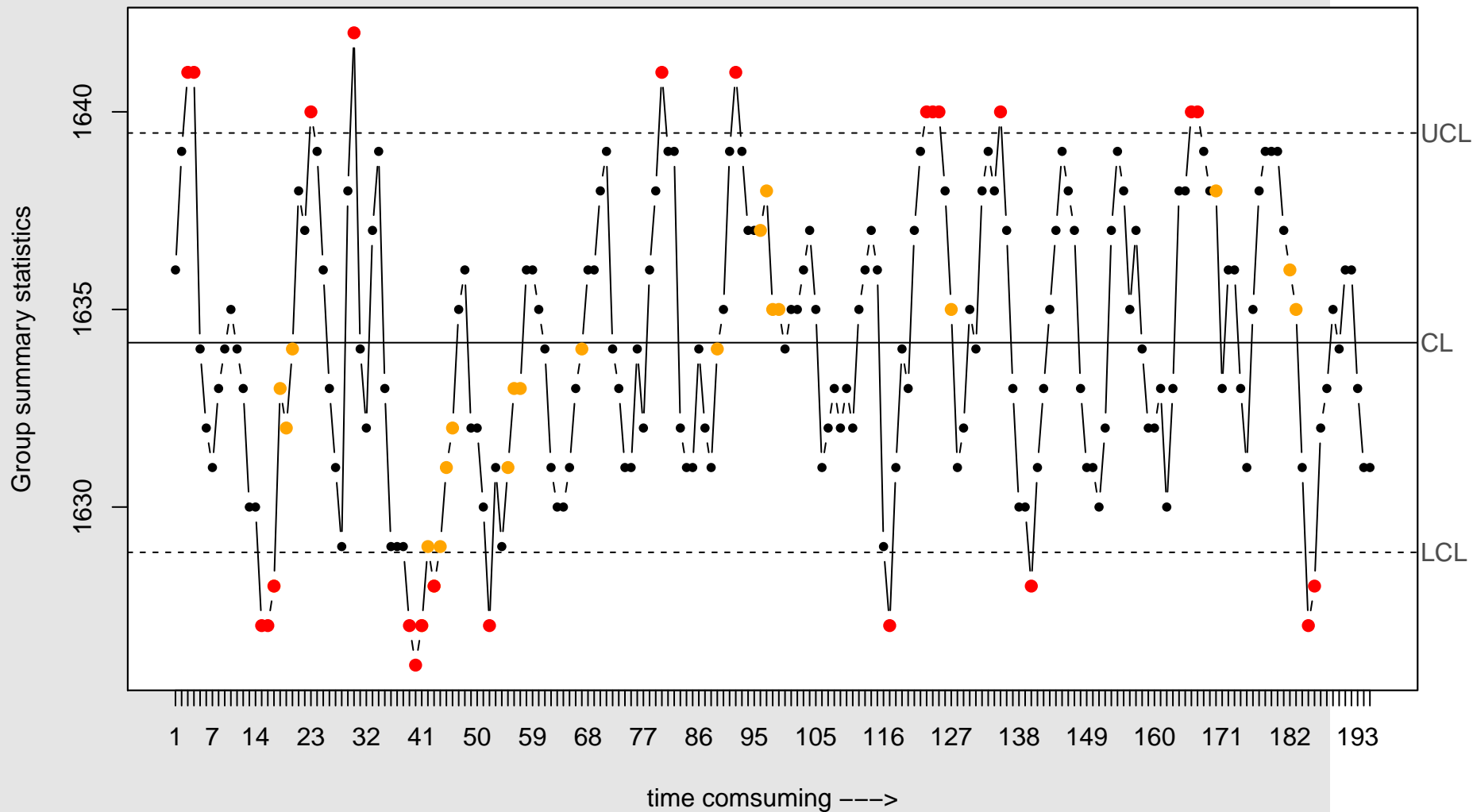


Number of groups = 195
Center = 1634.072
StdDev = 1.695364

LCL = 1628.986
UCL = 1639.158

Number beyond limits = 18
Number violating runs = 27

92th column point of this product

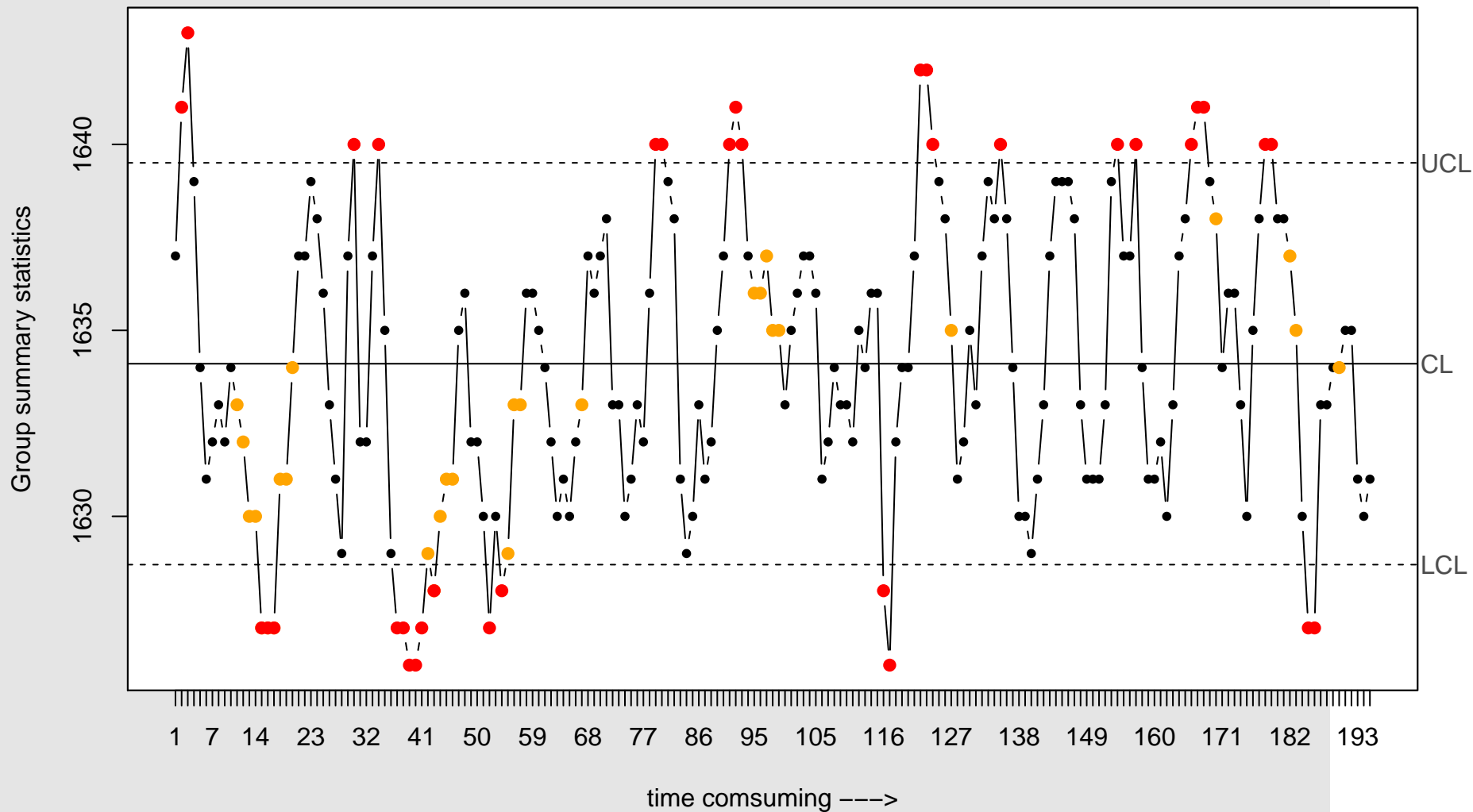


Number of groups = 195
 Center = 1634.159
 StdDev = 1.76848

LCL = 1628.854
 UCL = 1639.464

Number beyond limits = 24
 Number violating runs = 23

93th column point of this product



Number of groups = 195

Center = 1634.103

StdDev = 1.800468

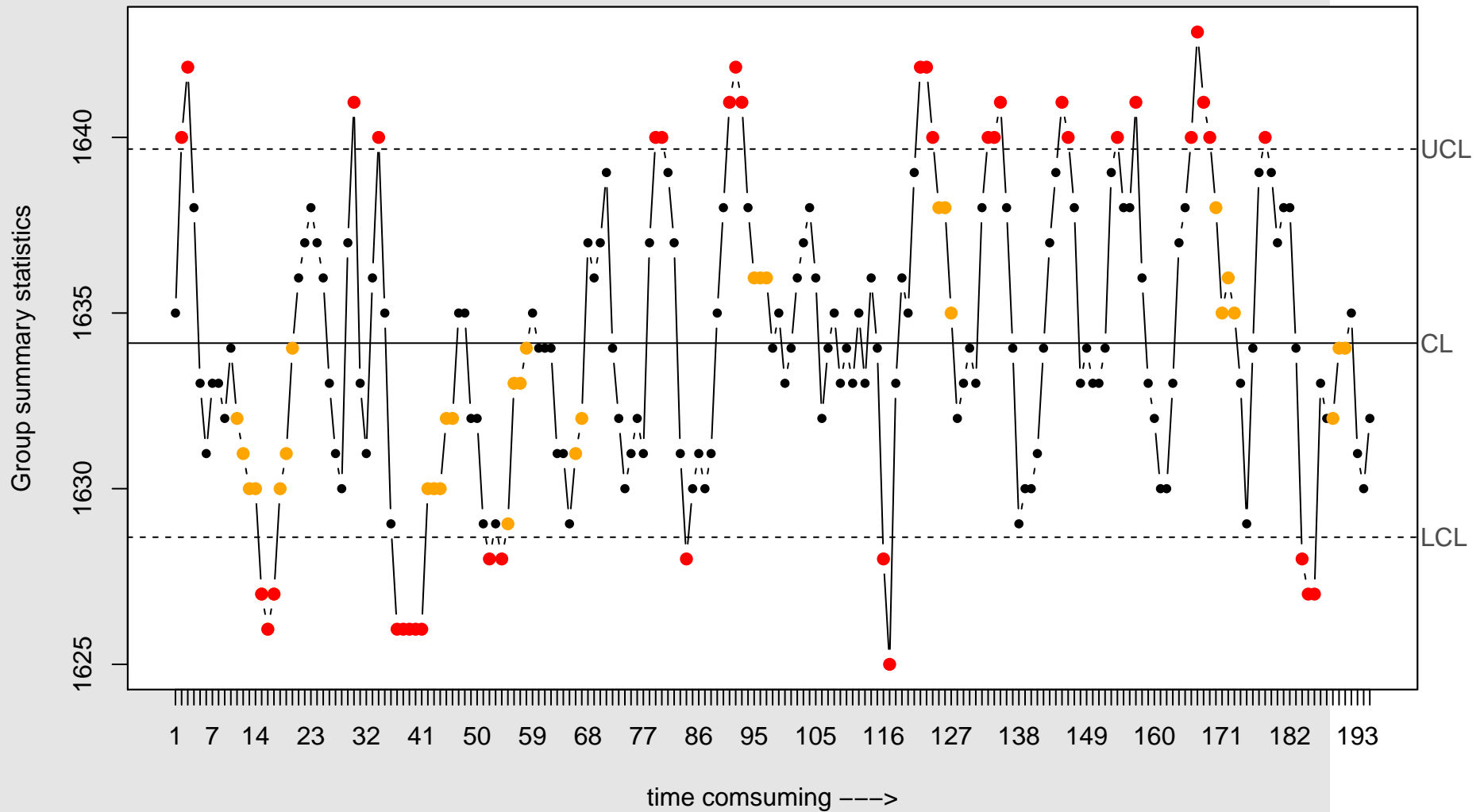
LCL = 1628.701

UCL = 1639.504

Number beyond limits = 35

Number violating runs = 29

94th column point of this product



Number of groups = 195

Center = 1634.144

StdDev = 1.841595

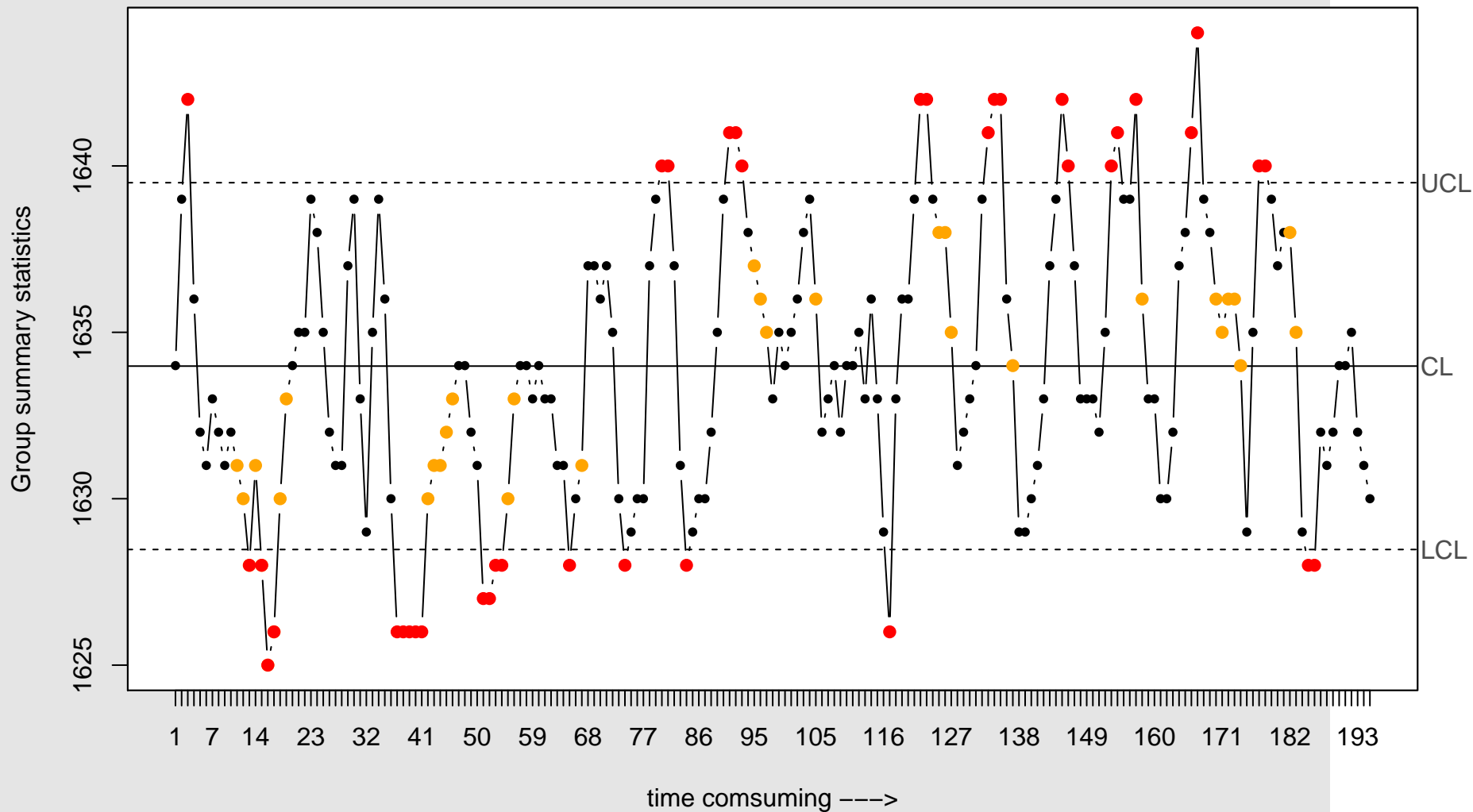
LCL = 1628.619

UCL = 1639.668

Number beyond limits = 40

Number violating runs = 34

95th column point of this product



Number of groups = 195

Center = 1633.985

StdDev = 1.837026

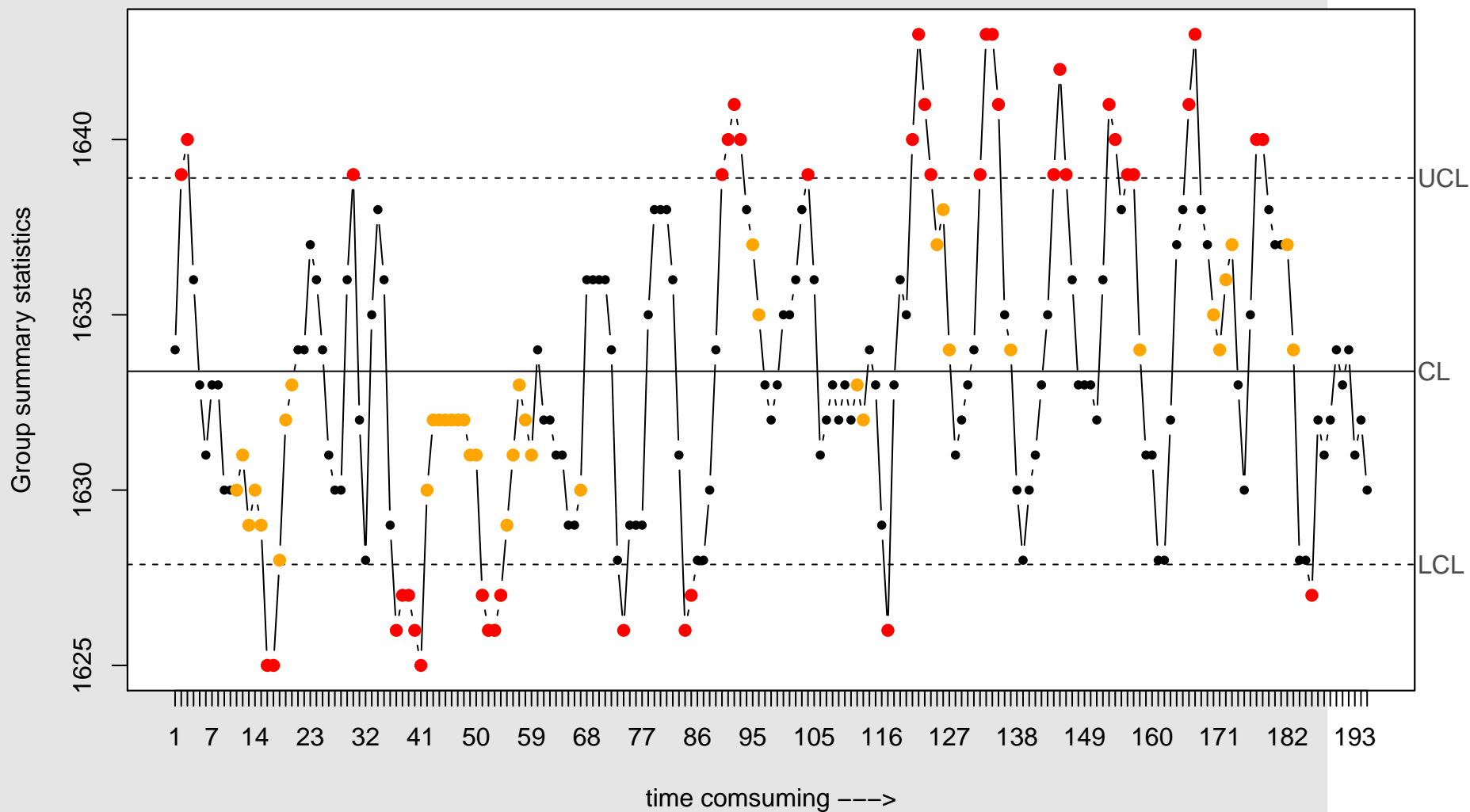
LCL = 1628.474

UCL = 1639.496

Number beyond limits = 39

Number violating runs = 33

96th column point of this product



Number of groups = 195

Center = 1633.39

StdDev = 1.837026

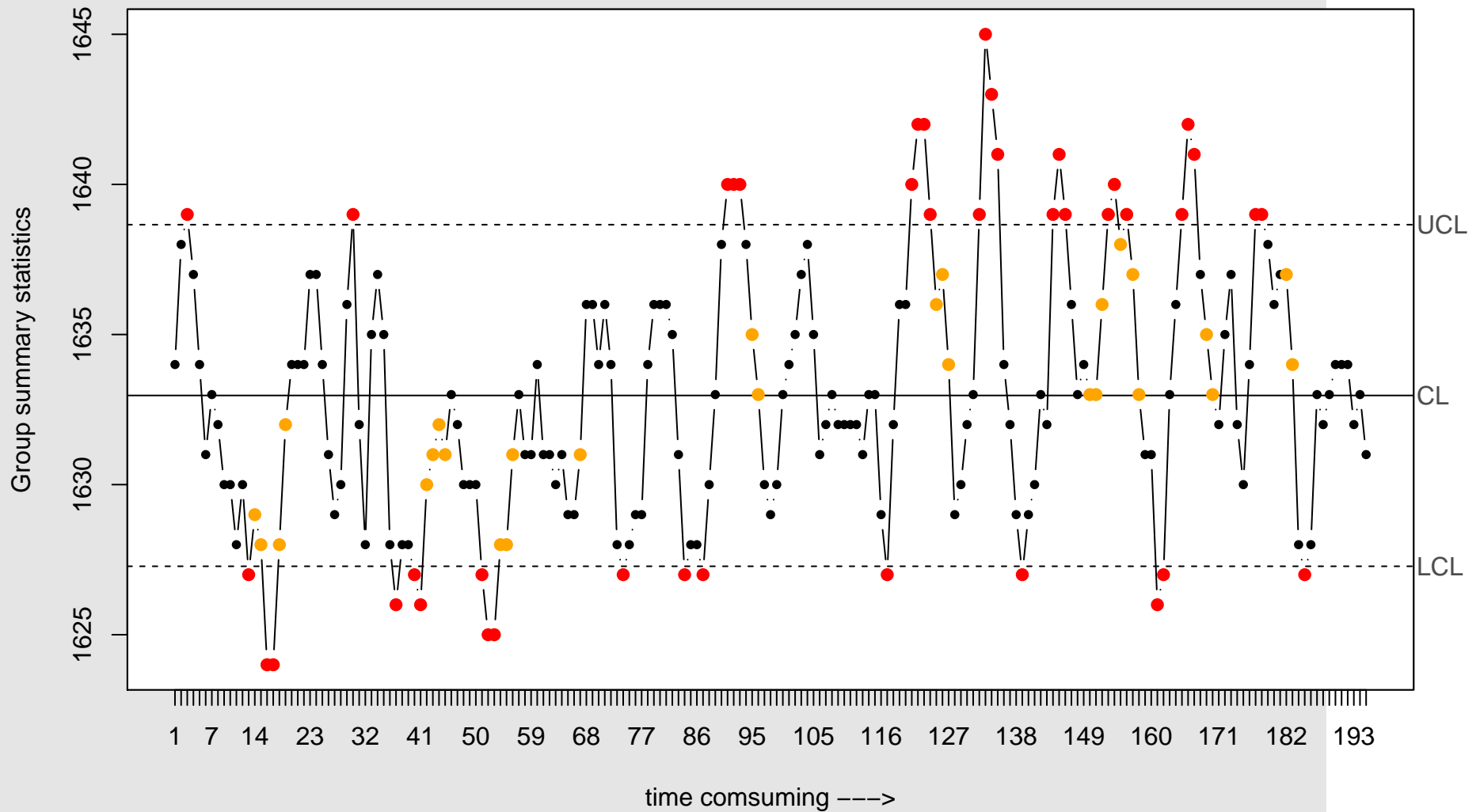
LCL = 1627.879

UCL = 1638.901

Number beyond limits = 43

Number violating runs = 44

97th column point of this product



Number of groups = 195

Center = 1632.969

StdDev = 1.896432

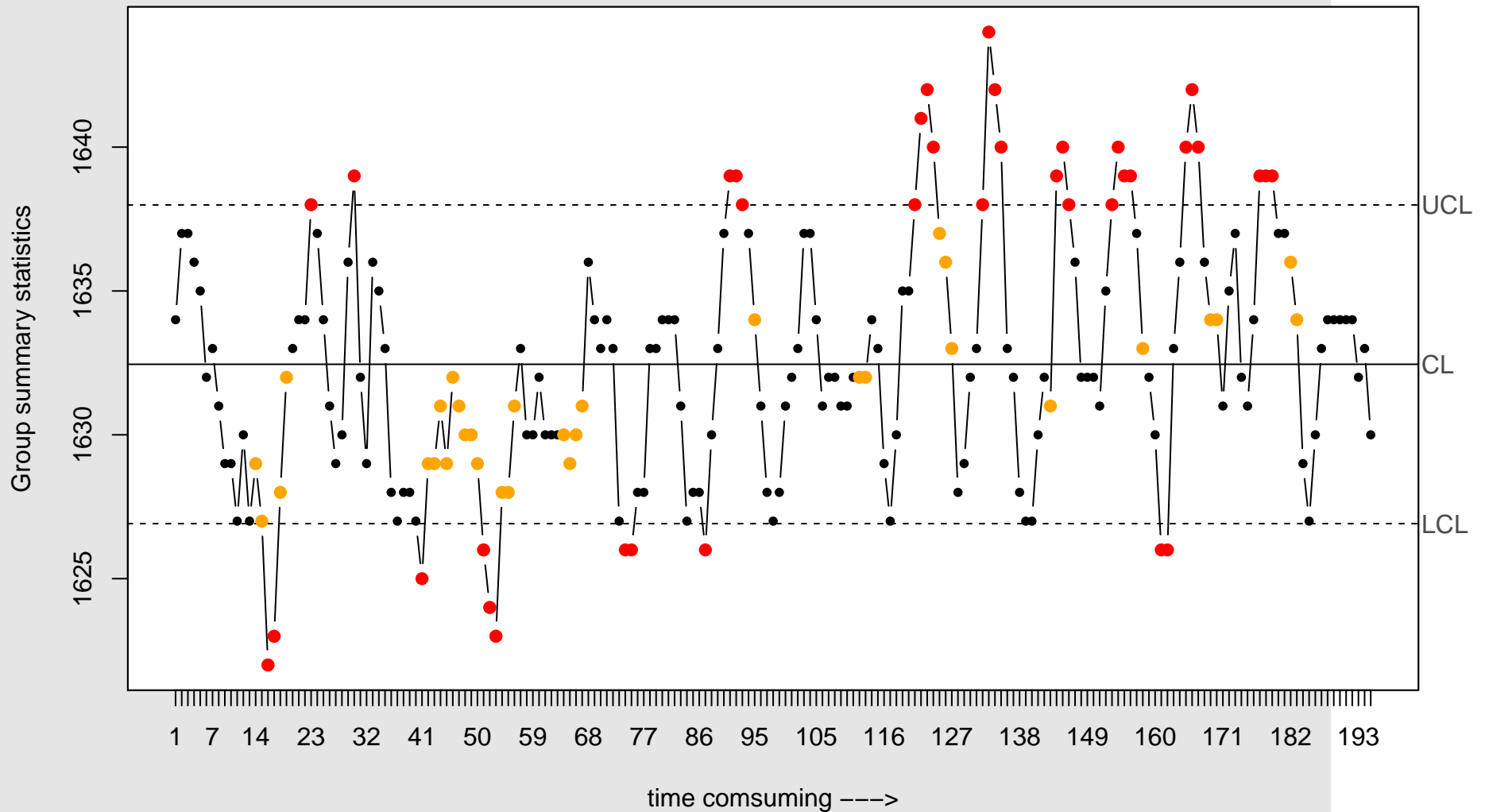
LCL = 1627.28

UCL = 1638.659

Number beyond limits = 41

Number violating runs = 33

98th column point of this product



Number of groups = 195

Center = 1632.451

StdDev = 1.846165

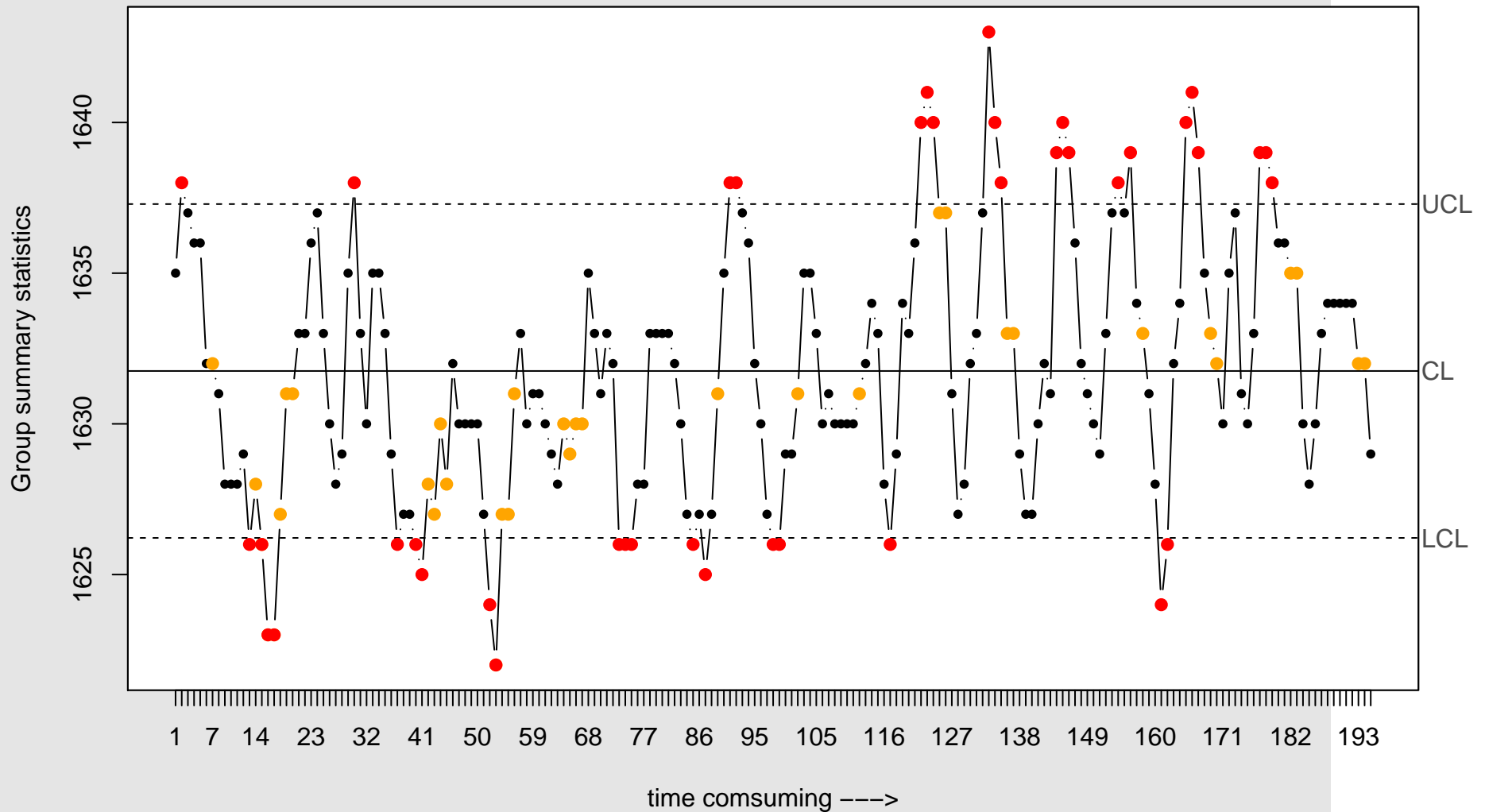
LCL = 1626.913

UCL = 1637.99

Number beyond limits = 37

Number violating runs = 37

99th column point of this product



Number of groups = 195

Center = 1631.754

StdDev = 1.846165

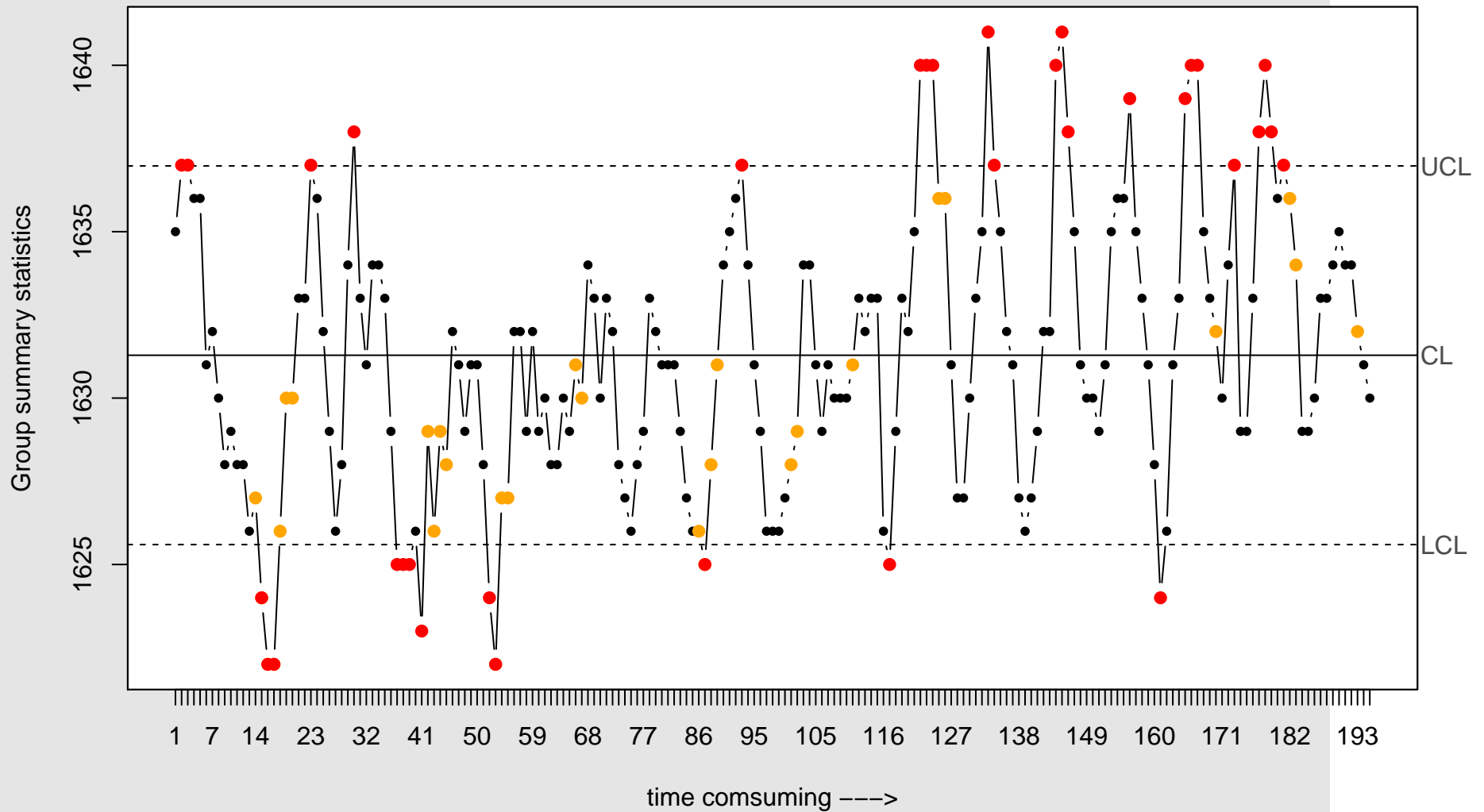
LCL = 1626.215

UCL = 1637.292

Number beyond limits = 40

Number violating runs = 34

100th column point of this product



Number of groups = 195

Center = 1631.287

StdDev = 1.896432

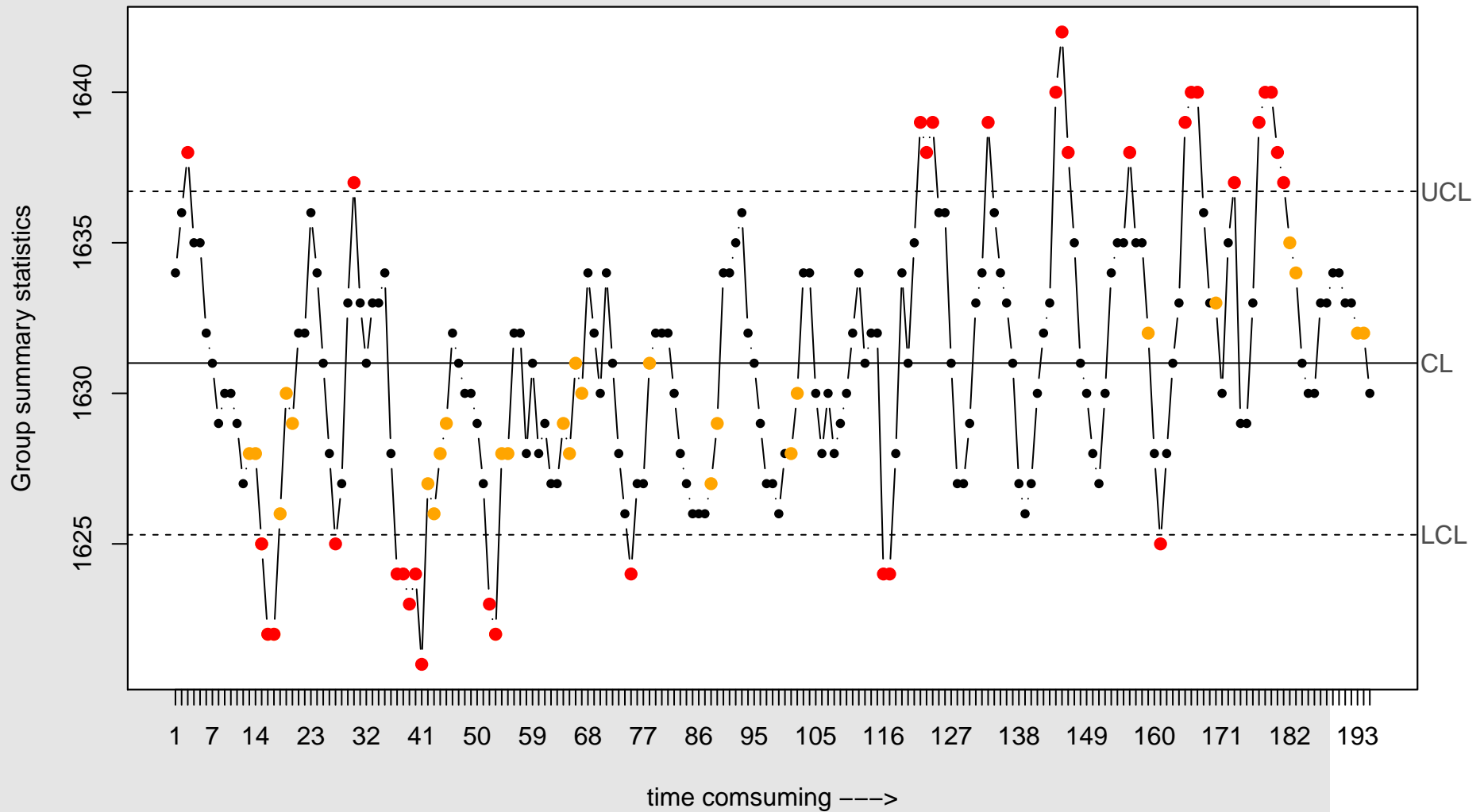
LCL = 1625.598

UCL = 1636.976

Number beyond limits = 34

Number violating runs = 29

101th column point of this product

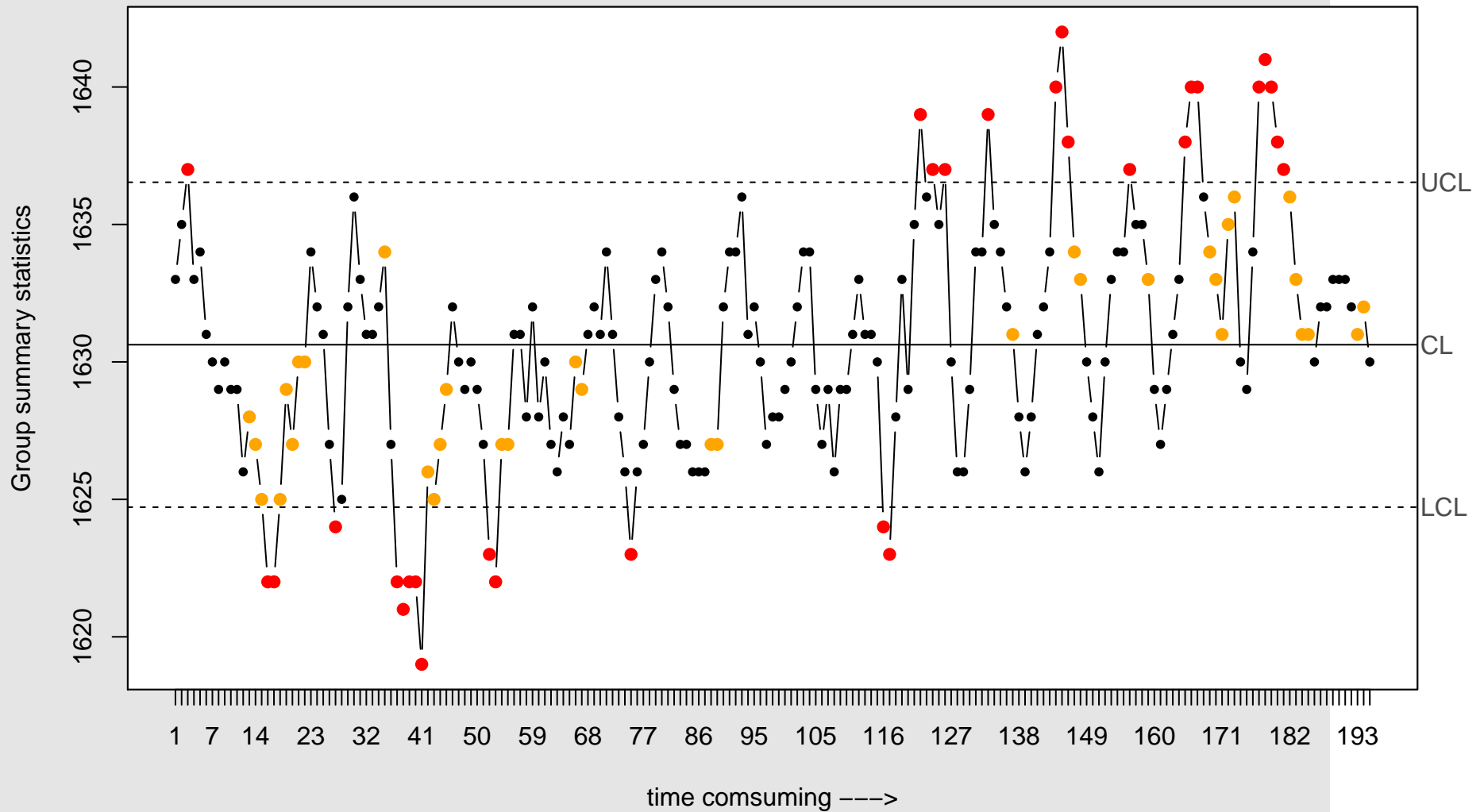


Number of groups = 195
Center = 1631.005
StdDev = 1.901002

LCL = 1625.302
UCL = 1636.708

Number beyond limits = 34
Number violating runs = 30

102th column point of this product

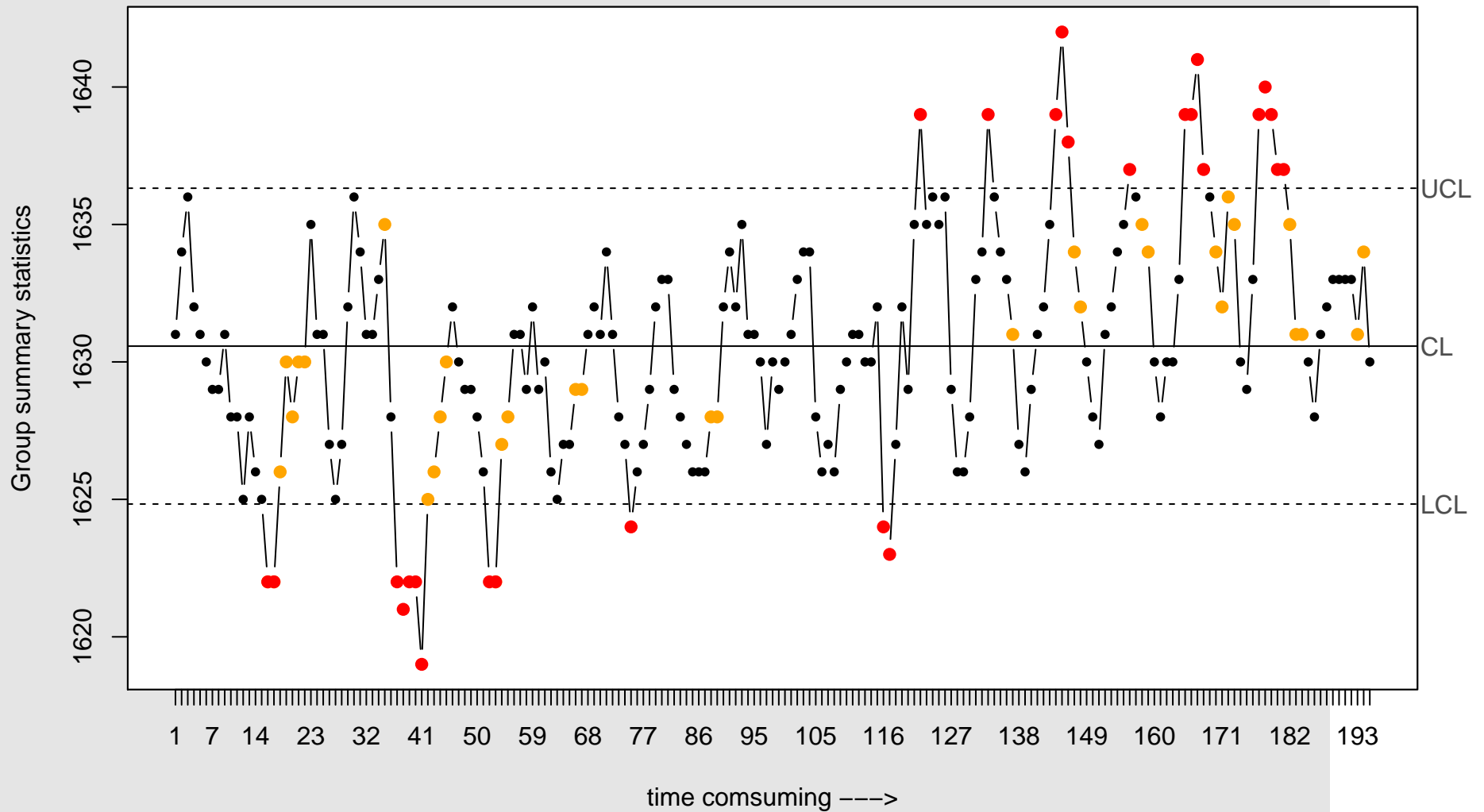


Number of groups = 195
Center = 1630.626
StdDev = 1.969547

LCL = 1624.717
UCL = 1636.534

Number beyond limits = 30
Number violating runs = 37

103th column point of this product



Number of groups = 195

Center = 1630.574

StdDev = 1.914711

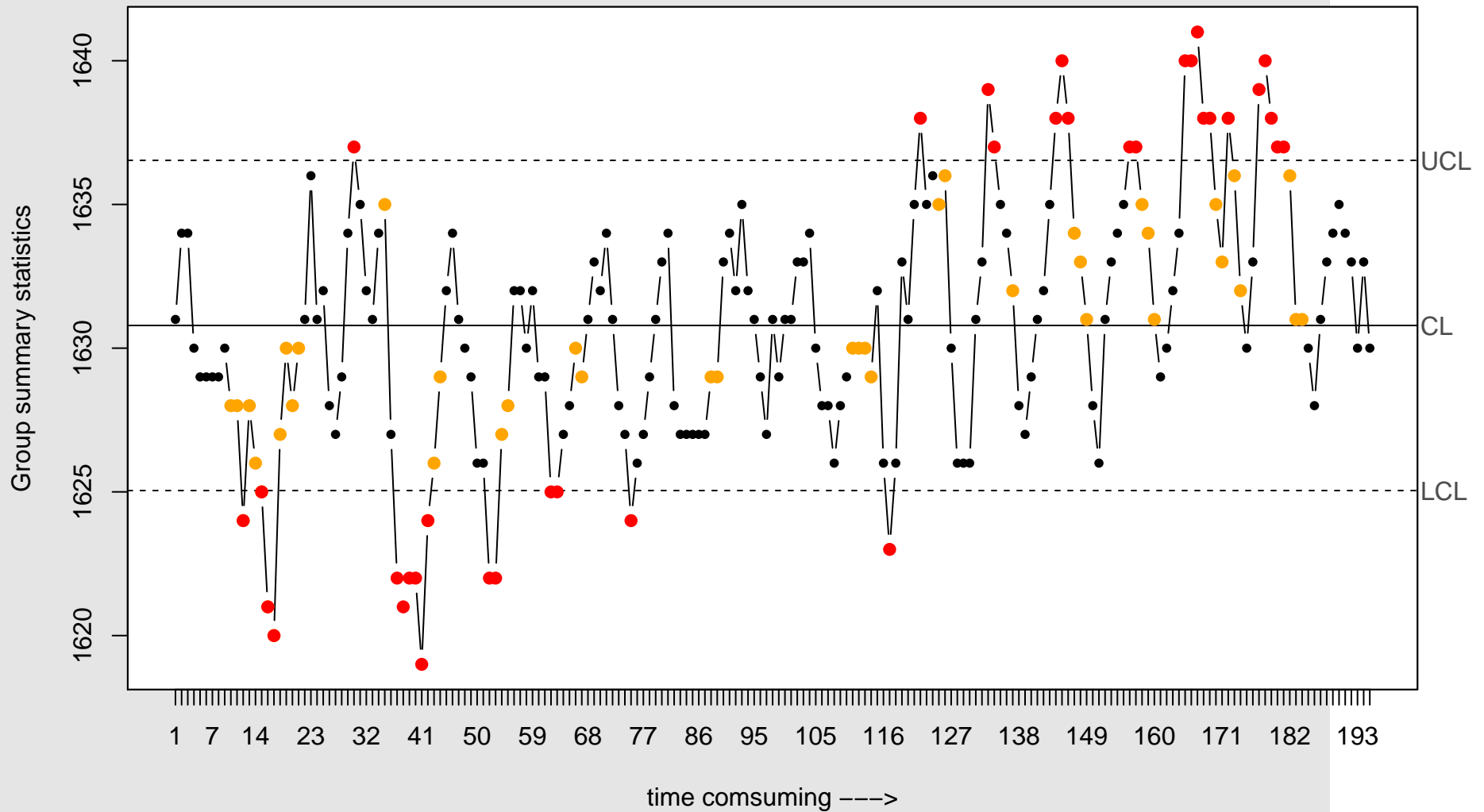
LCL = 1624.83

UCL = 1636.318

Number beyond limits = 27

Number violating runs = 33

104th column point of this product

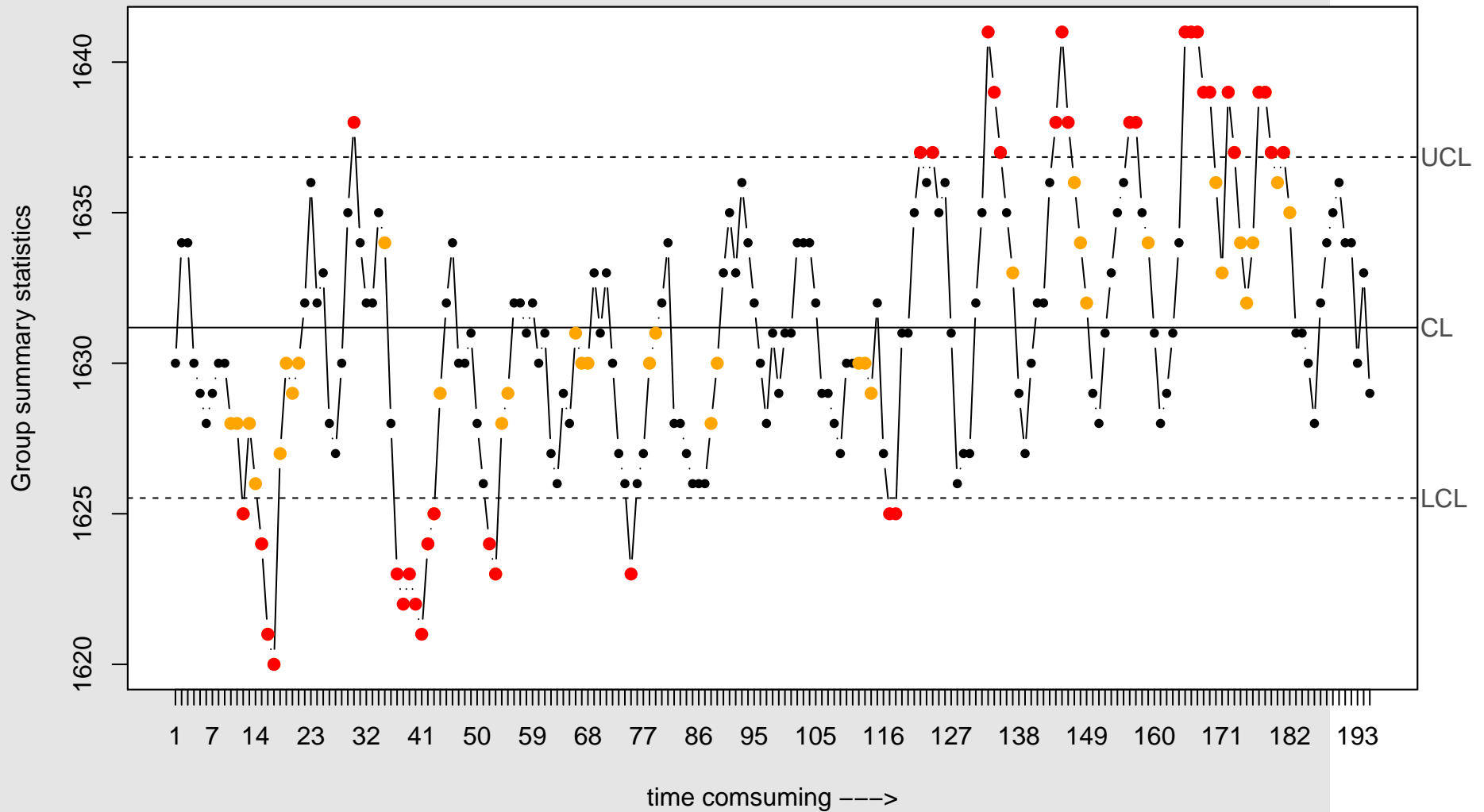


Number of groups = 195
Center = 1630.79
StdDev = 1.914711

LCL = 1625.046
UCL = 1636.534

Number beyond limits = 36
Number violating runs = 44

105th column point of this product



Number of groups = 195

Center = 1631.185

StdDev = 1.887293

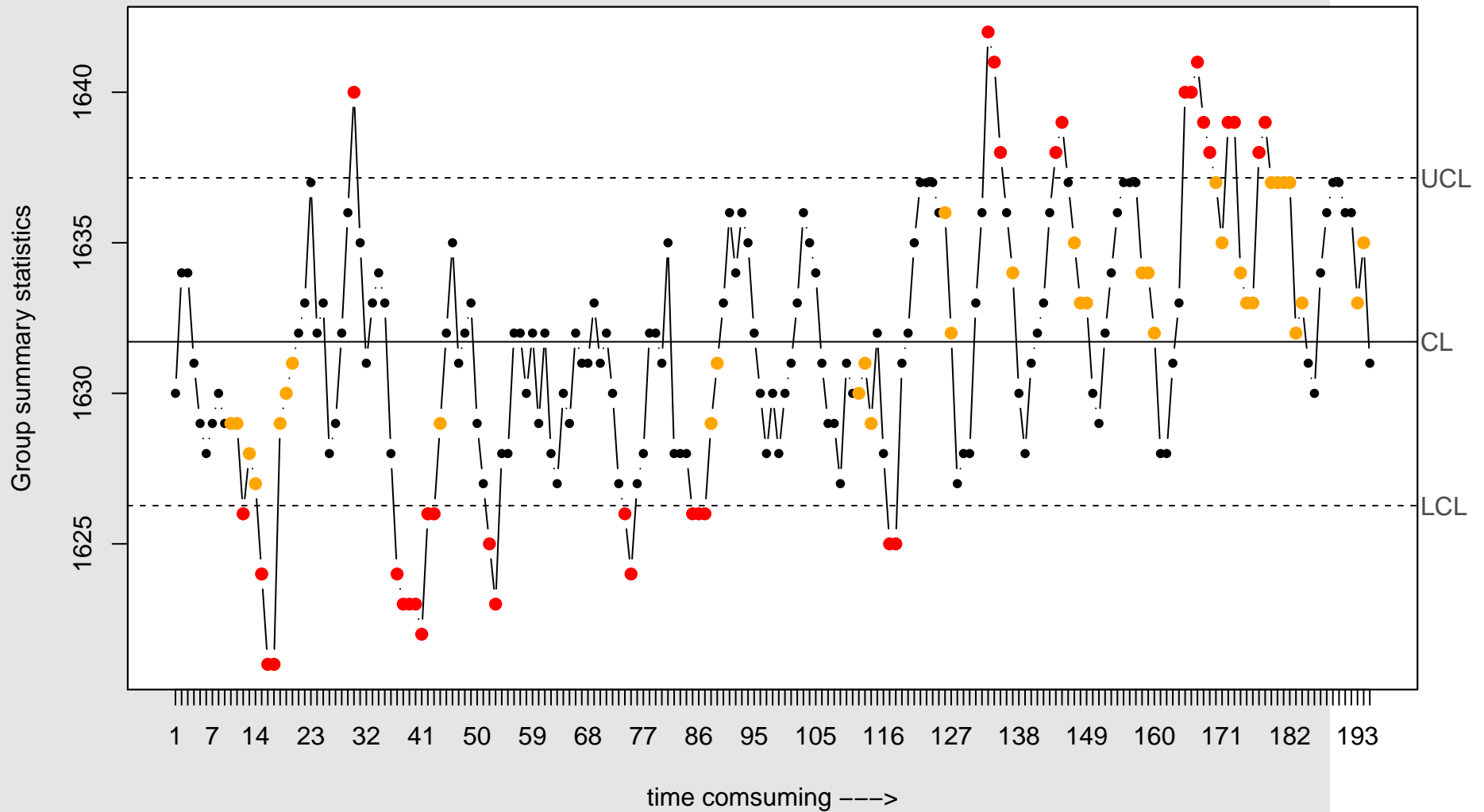
LCL = 1625.523

UCL = 1636.846

Number beyond limits = 38

Number violating runs = 47

106th column point of this product



Number of groups = 195

Center = 1631.713

StdDev = 1.814177

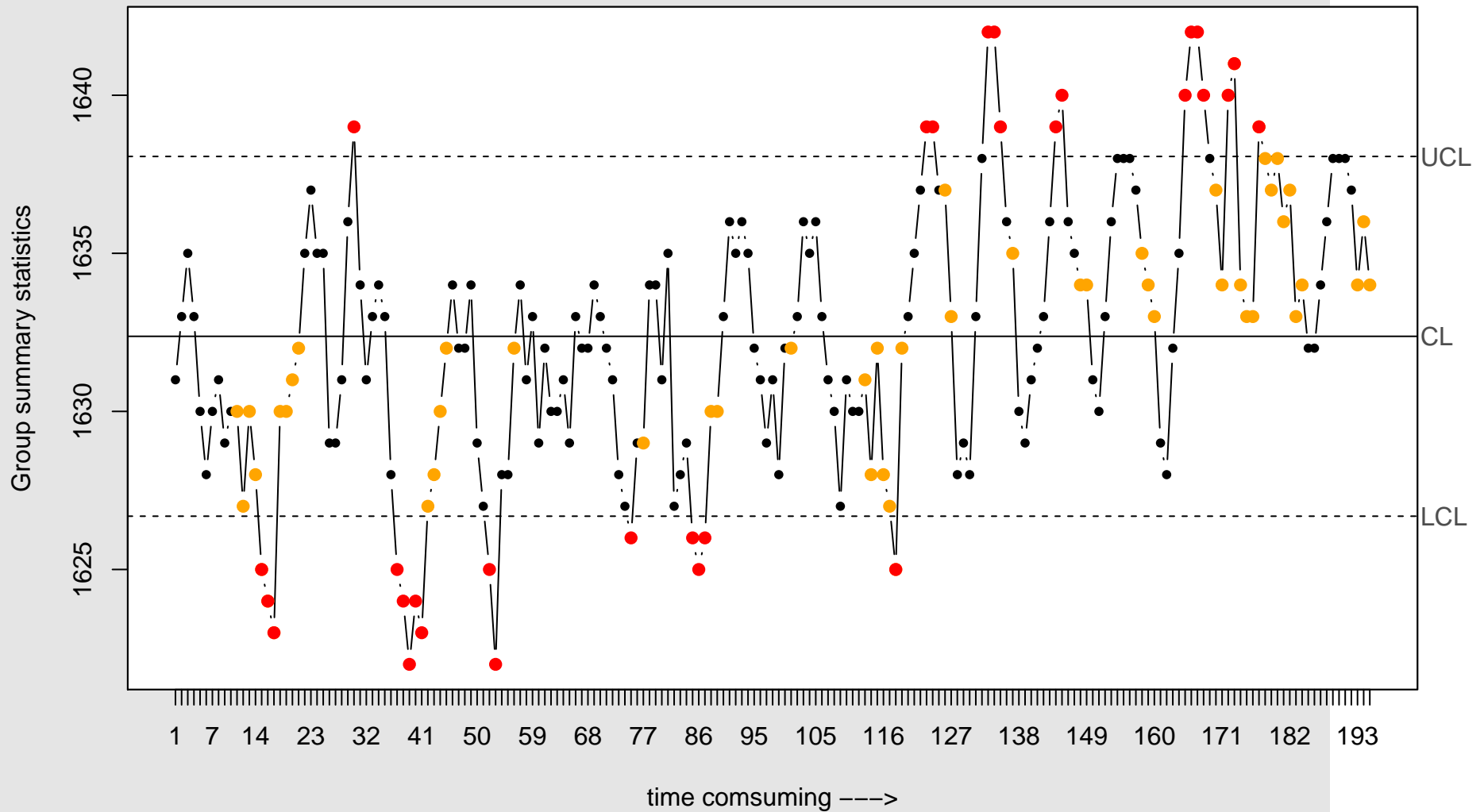
LCL = 1626.27

UCL = 1637.155

Number beyond limits = 35

Number violating runs = 45

107th column point of this product



Number of groups = 195

Center = 1632.374

StdDev = 1.896432

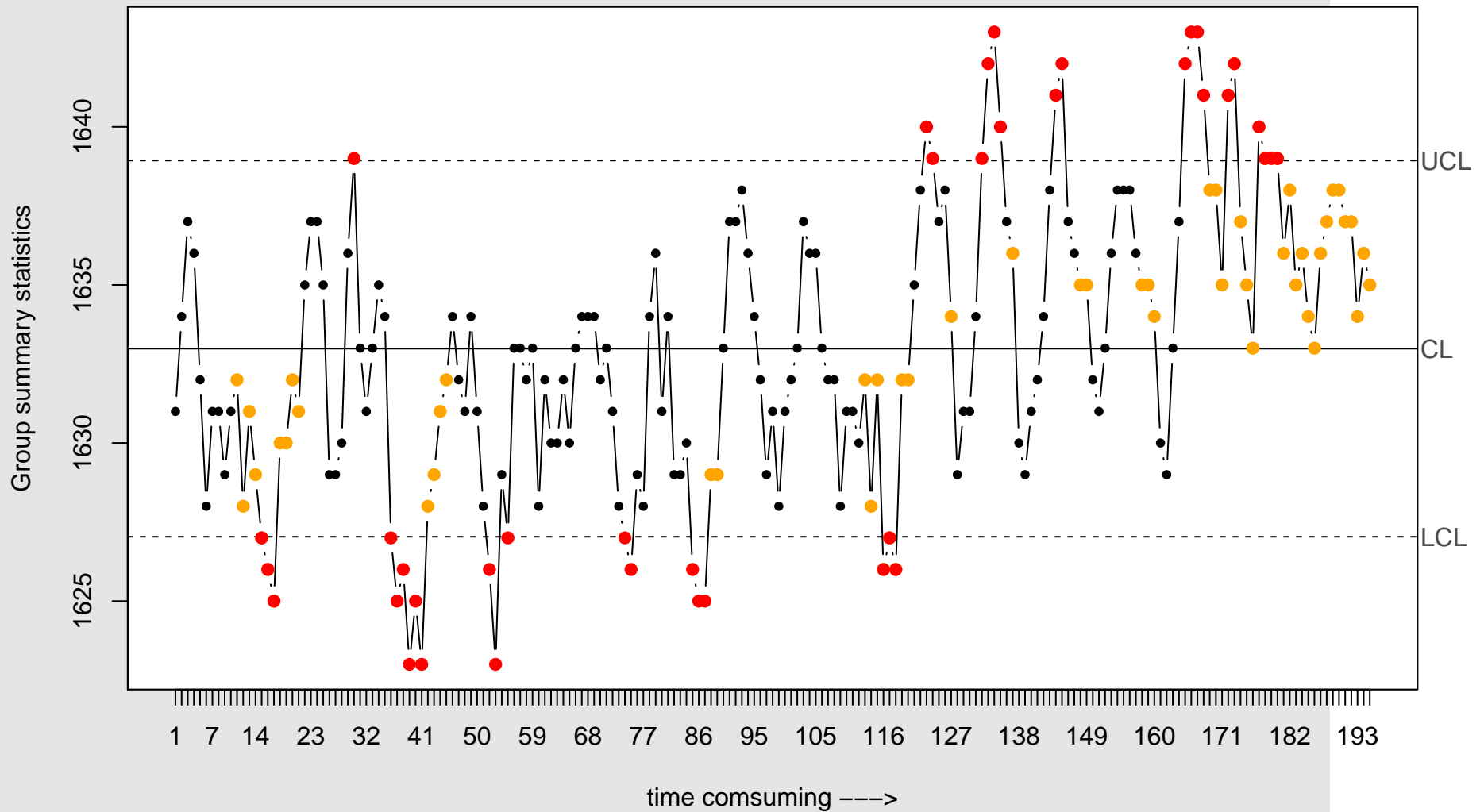
LCL = 1626.685

UCL = 1638.064

Number beyond limits = 30

Number violating runs = 53

108th column point of this product



Number of groups = 195

Center = 1632.985

StdDev = 1.983257

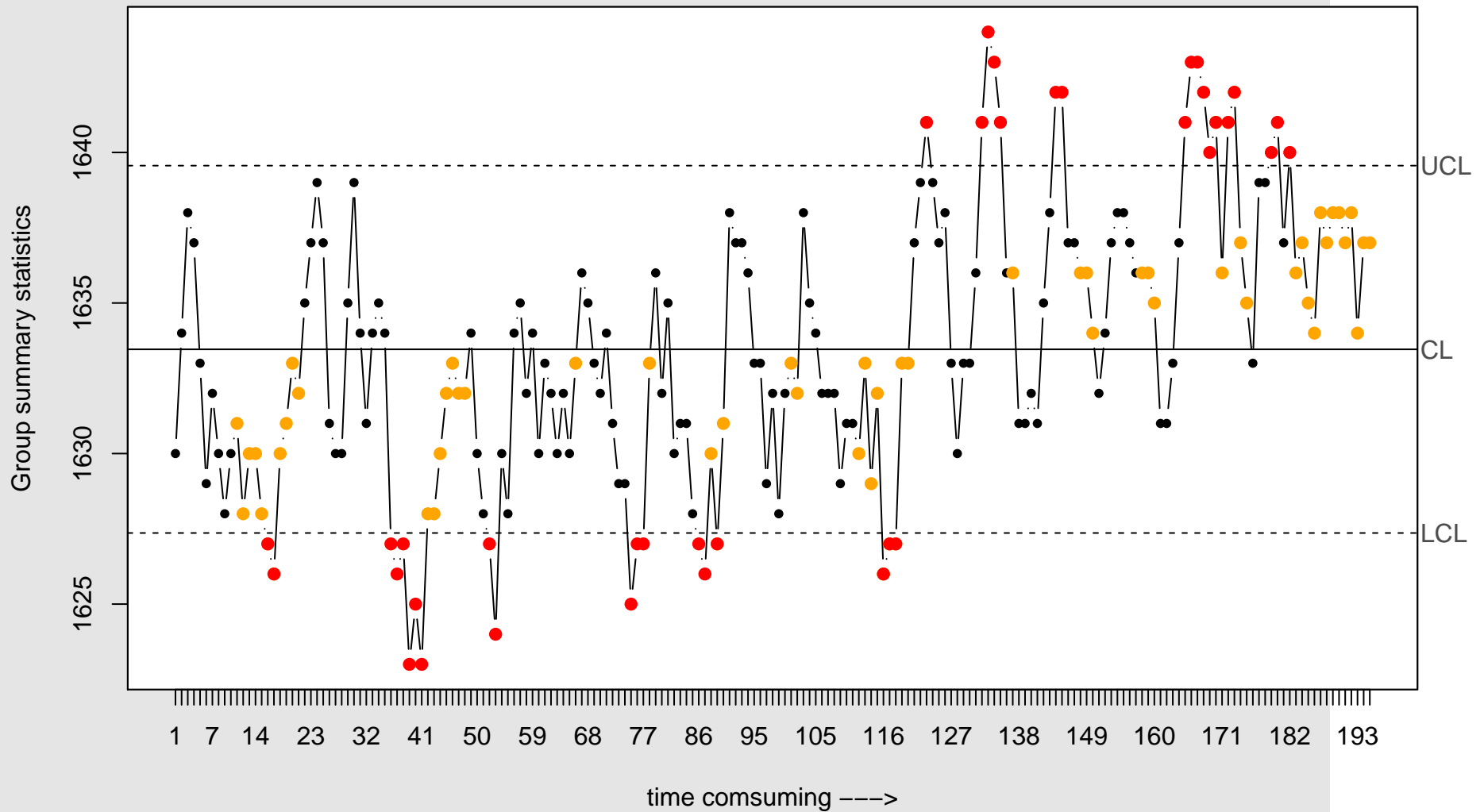
LCL = 1627.035

UCL = 1638.934

Number beyond limits = 39

Number violating runs = 59

109th column point of this product



Number of groups = 195

Center = 1633.462

StdDev = 2.033523

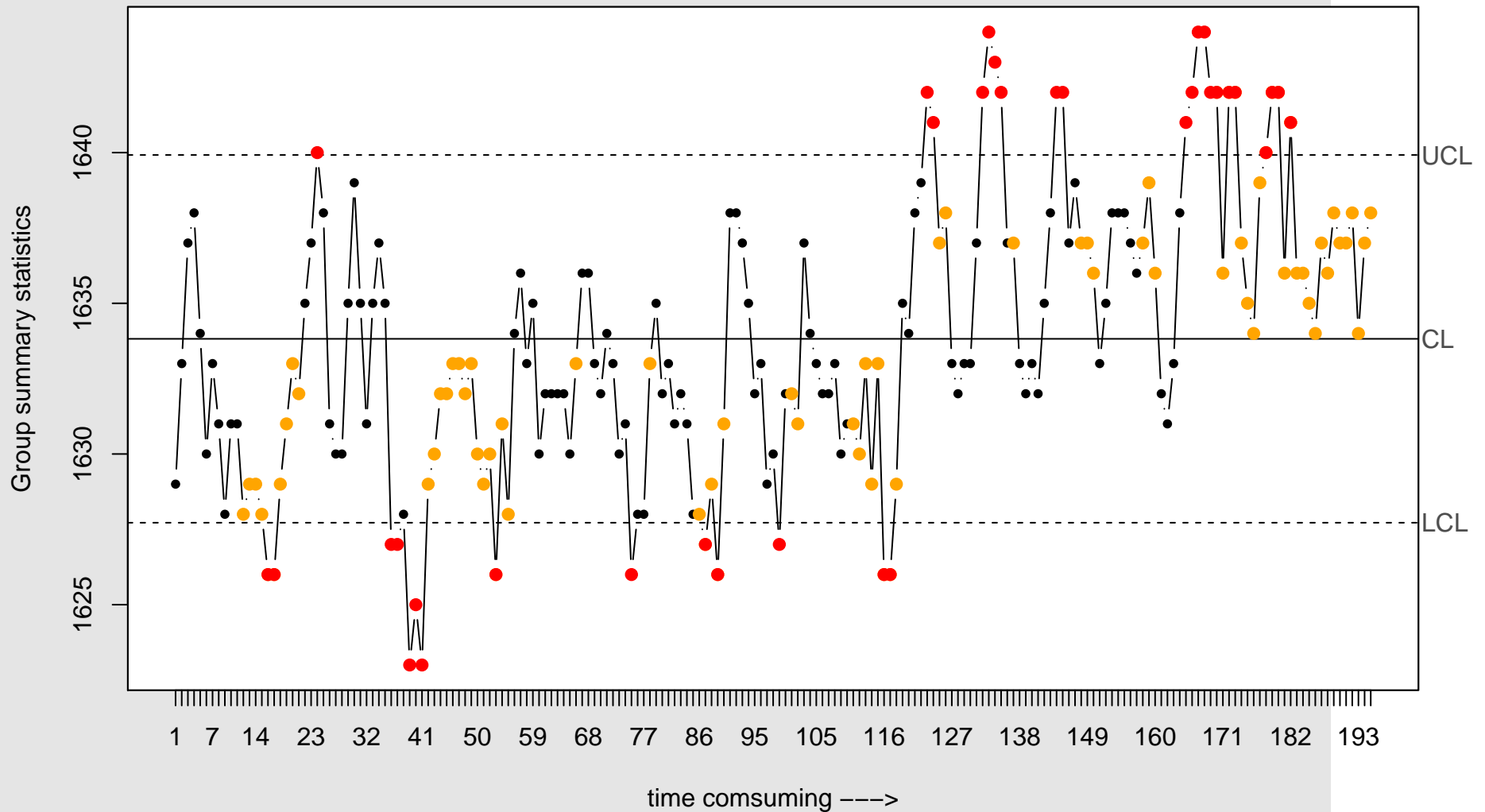
LCL = 1627.361

UCL = 1639.562

Number beyond limits = 37

Number violating runs = 60

110th column point of this product



Number of groups = 195

Center = 1633.821

StdDev = 2.033523

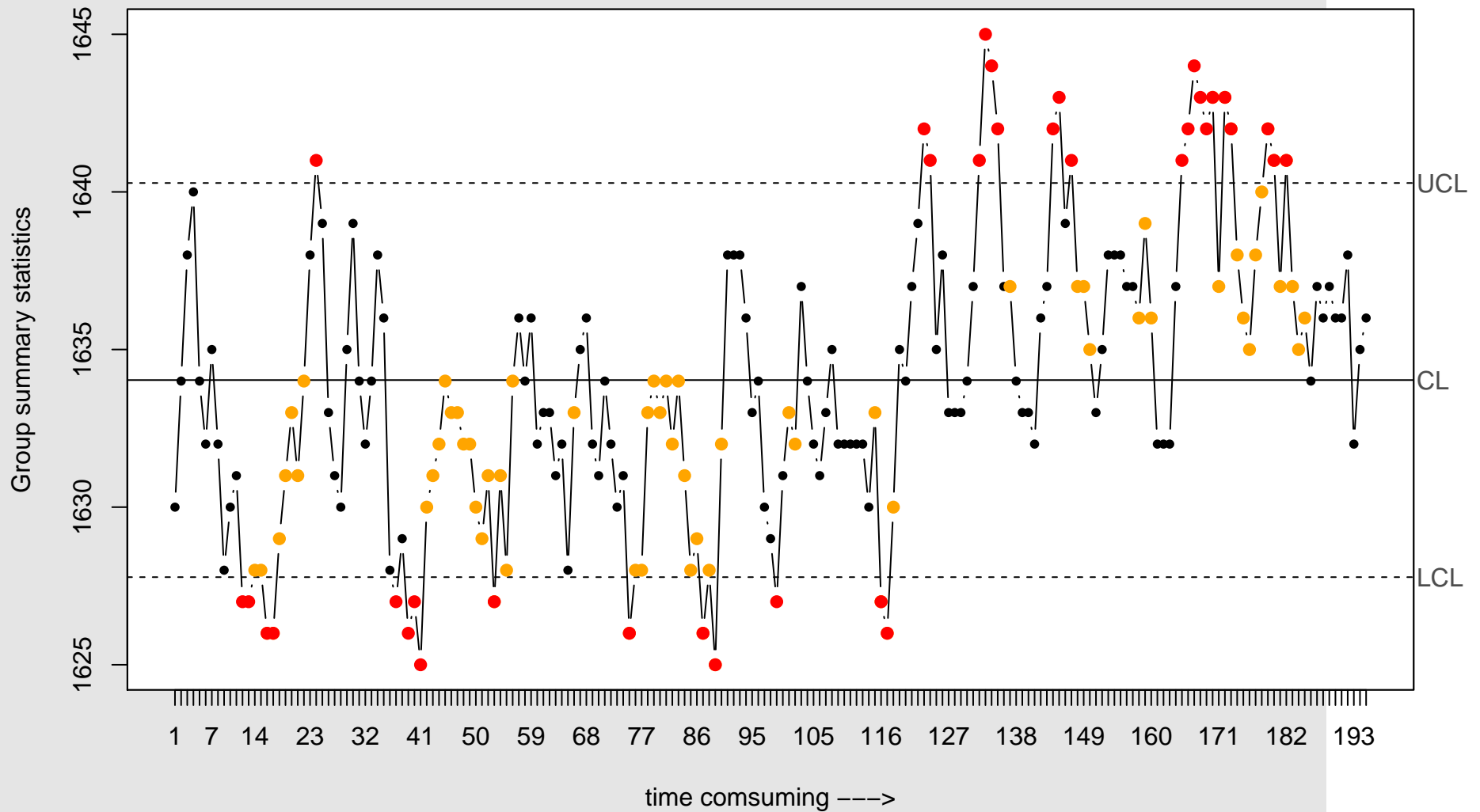
LCL = 1627.72

UCL = 1639.921

Number beyond limits = 35

Number violating runs = 76

111th column point of this product

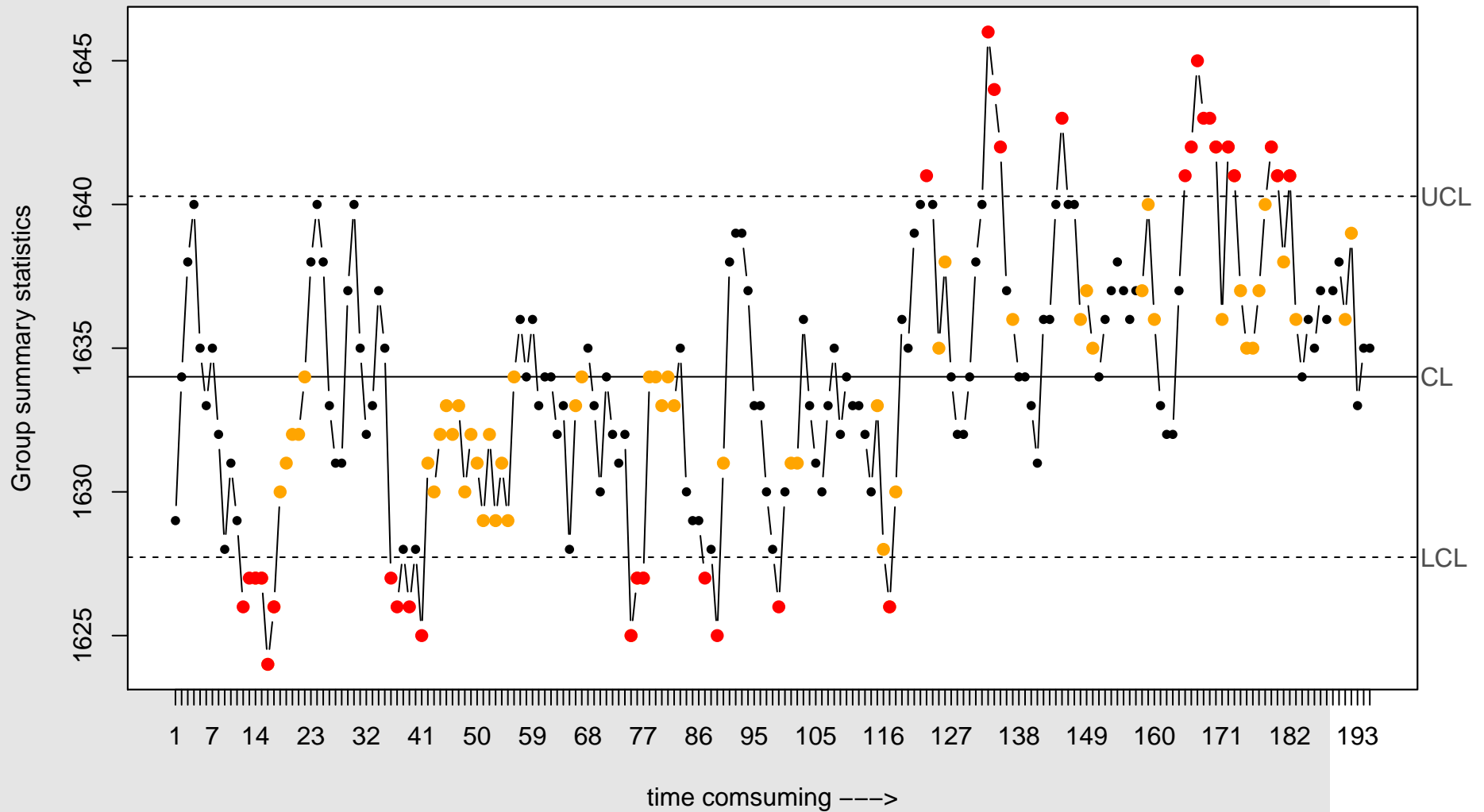


Number of groups = 195
Center = 1634.031
StdDev = 2.08379

LCL = 1627.779
UCL = 1640.282

Number beyond limits = 36
Number violating runs = 70

112th column point of this product



Number of groups = 195

Center = 1634.005

StdDev = 2.09293

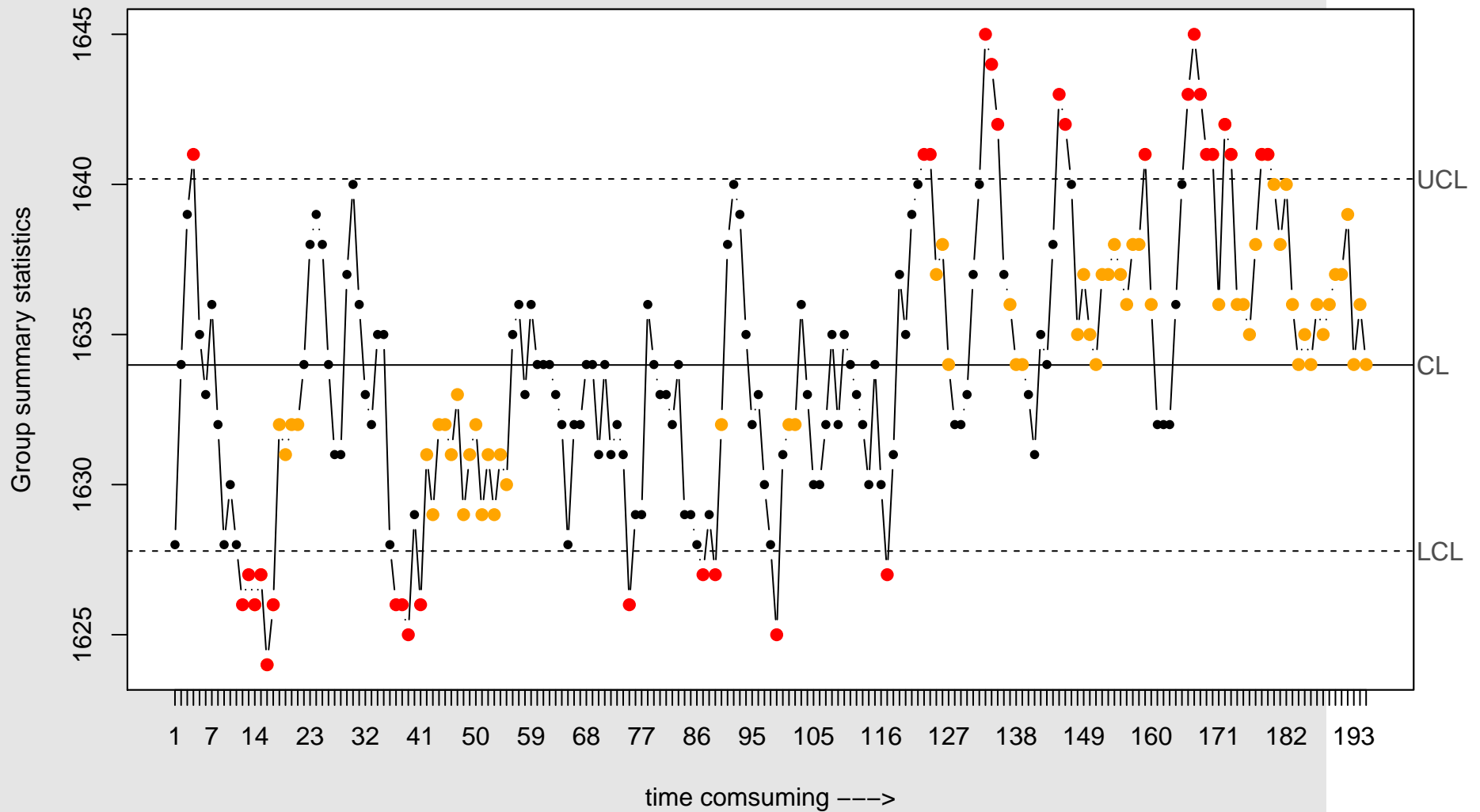
LCL = 1627.726

UCL = 1640.284

Number beyond limits = 33

Number violating runs = 66

113th column point of this product



Number of groups = 195

Center = 1633.985

StdDev = 2.065511

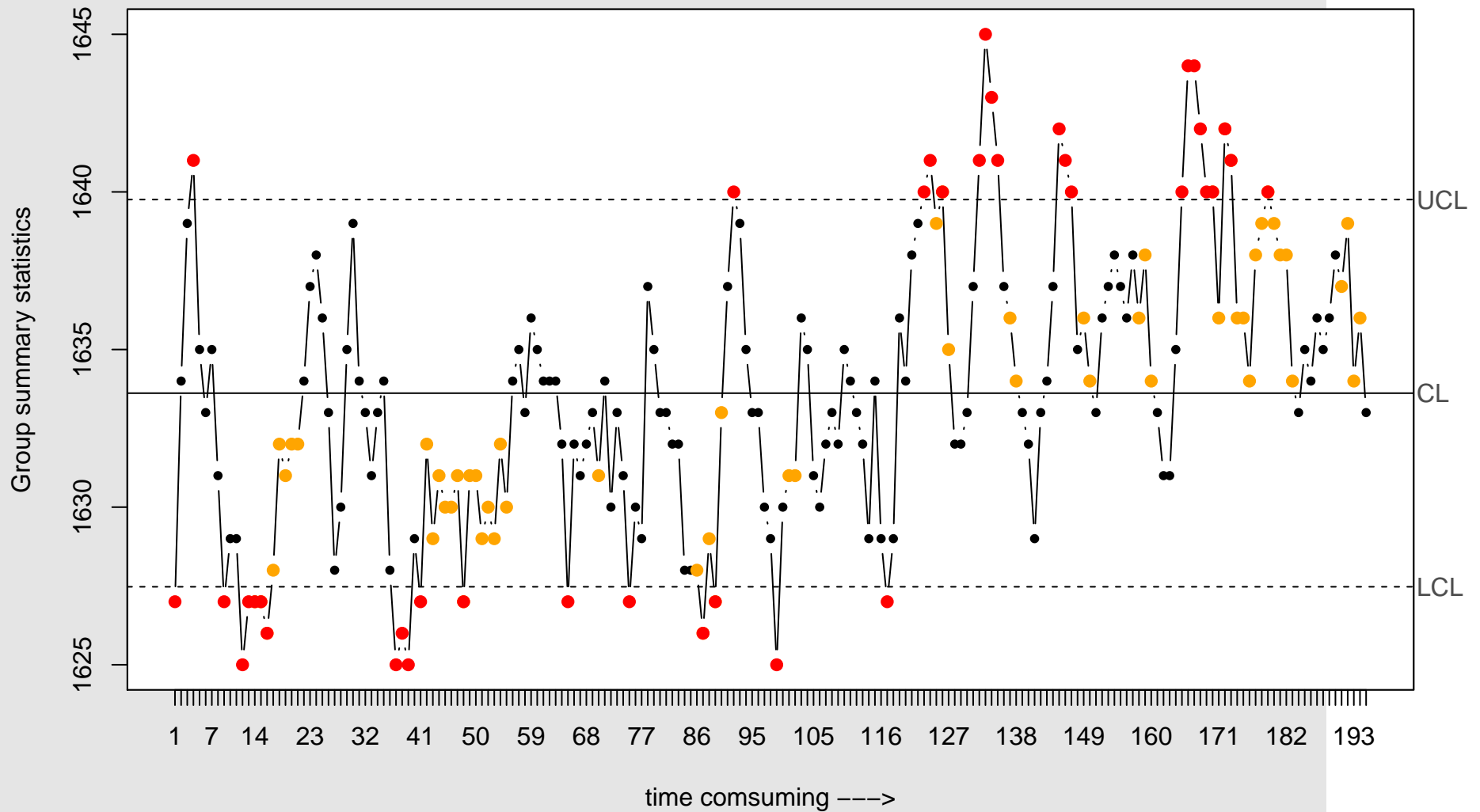
LCL = 1627.788

UCL = 1640.181

Number beyond limits = 33

Number violating runs = 70

114th column point of this product



Number of groups = 195

Center = 1633.615

StdDev = 2.047233

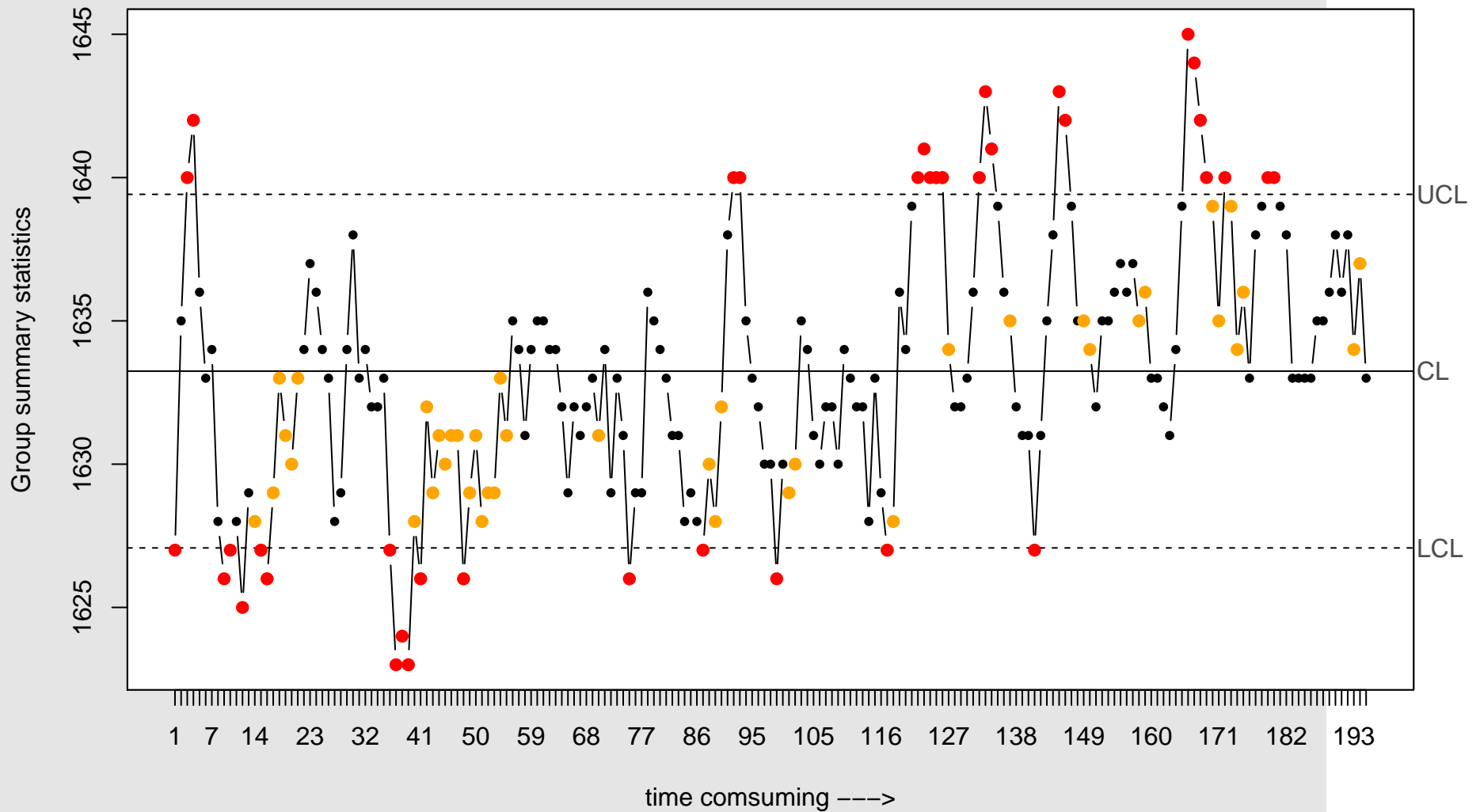
LCL = 1627.474

UCL = 1639.757

Number beyond limits = 39

Number violating runs = 58

115th column point of this product



Number of groups = 195

Center = 1633.246

StdDev = 2.056372

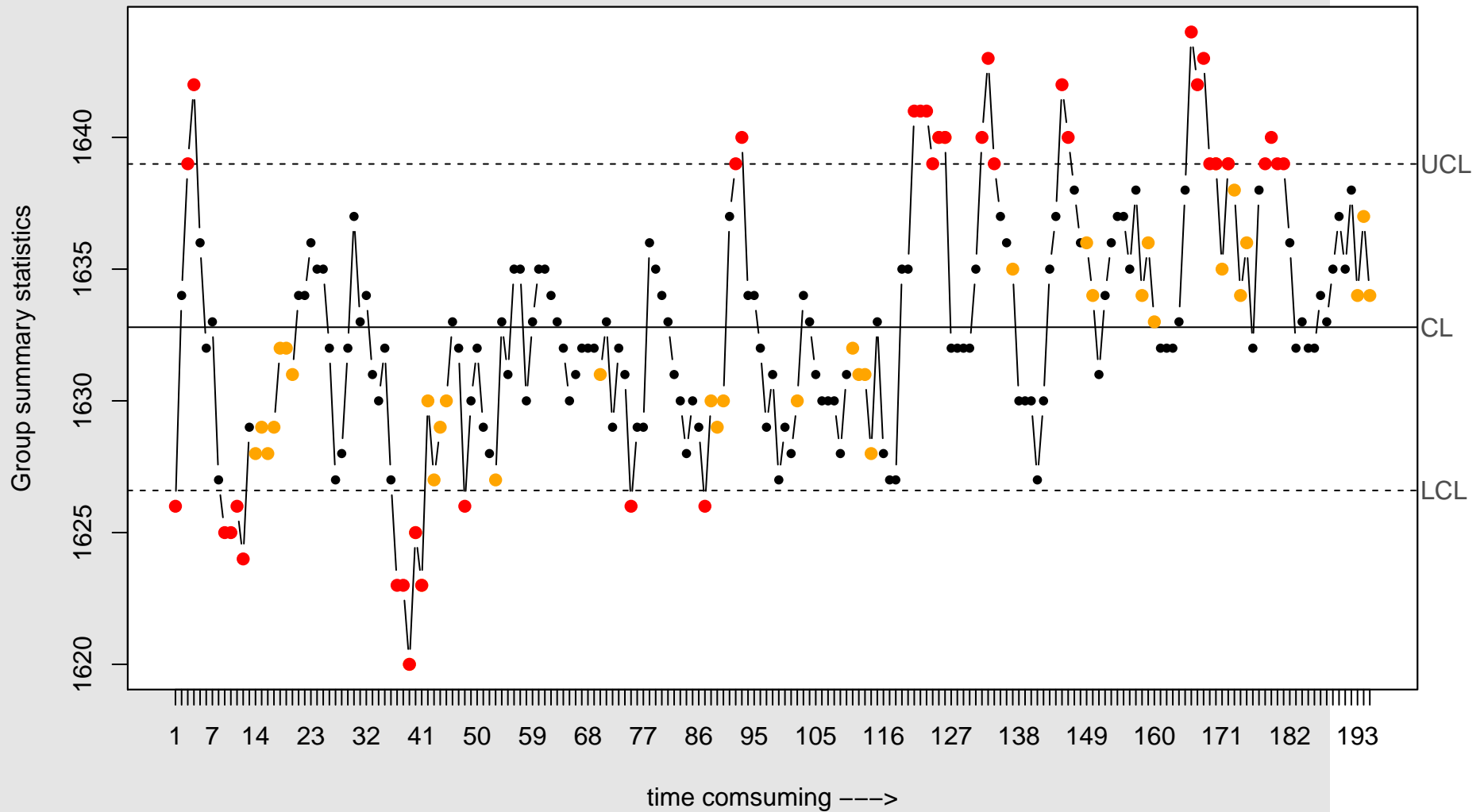
LCL = 1627.077

UCL = 1639.415

Number beyond limits = 38

Number violating runs = 50

116th column point of this product



Number of groups = 195

Center = 1632.795

StdDev = 2.065511

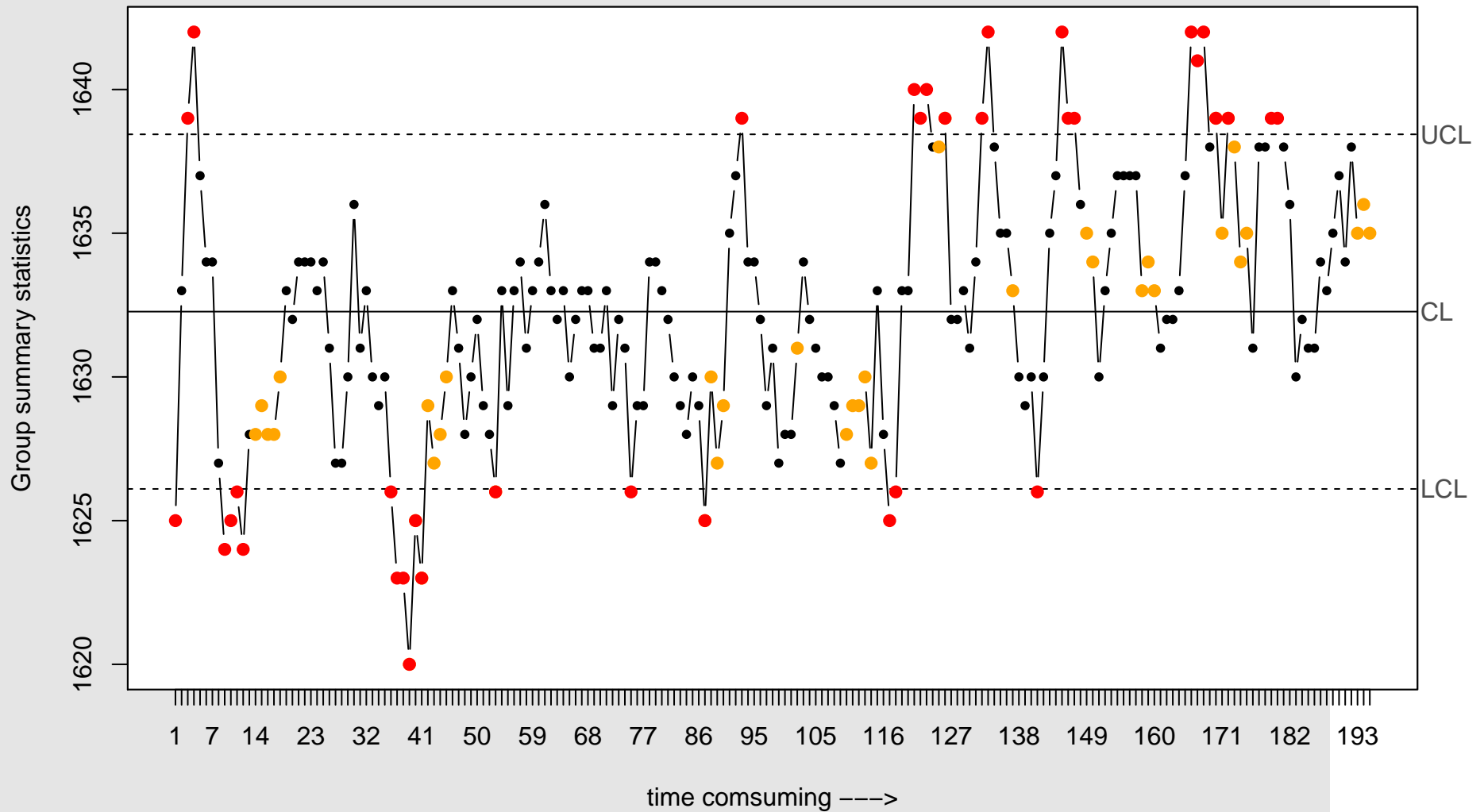
LCL = 1626.598

UCL = 1638.991

Number beyond limits = 38

Number violating runs = 41

117th column point of this product



Number of groups = 195

Center = 1632.272

StdDev = 2.056372

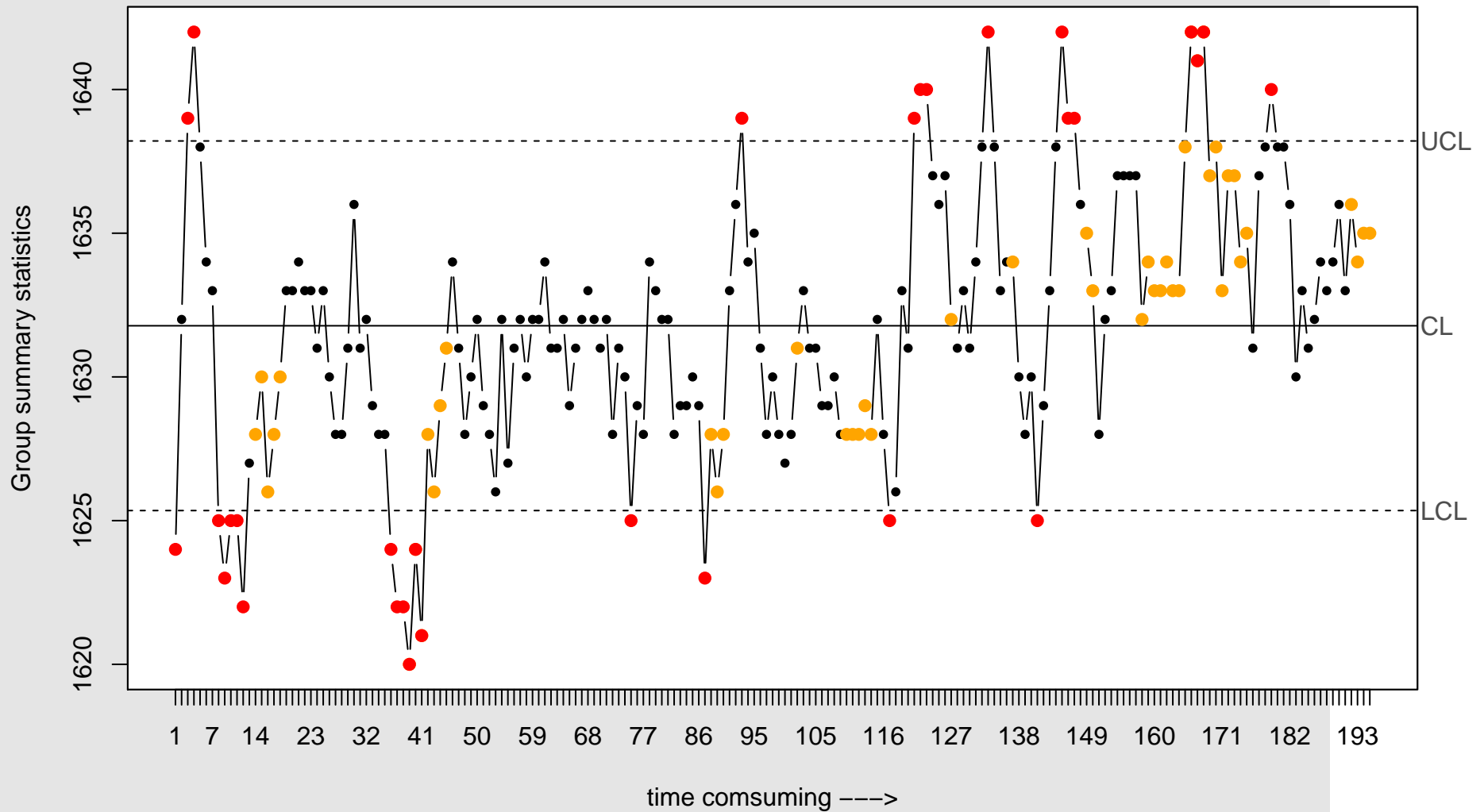
LCL = 1626.103

UCL = 1638.441

Number beyond limits = 36

Number violating runs = 40

118th column point of this product



Number of groups = 195

Center = 1631.779

StdDev = 2.143197

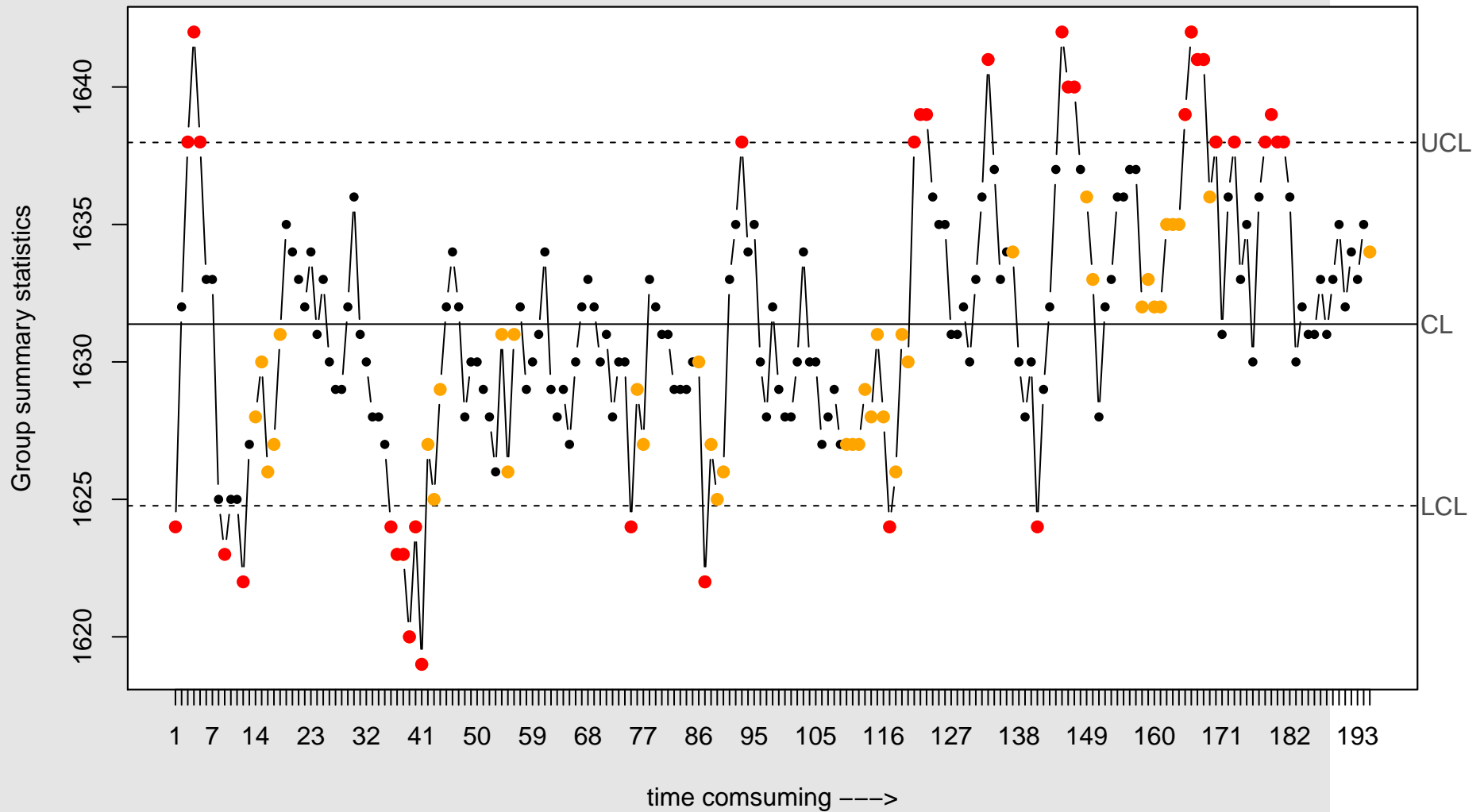
LCL = 1625.35

UCL = 1638.209

Number beyond limits = 30

Number violating runs = 47

119th column point of this product



Number of groups = 195

Center = 1631.374

StdDev = 2.202603

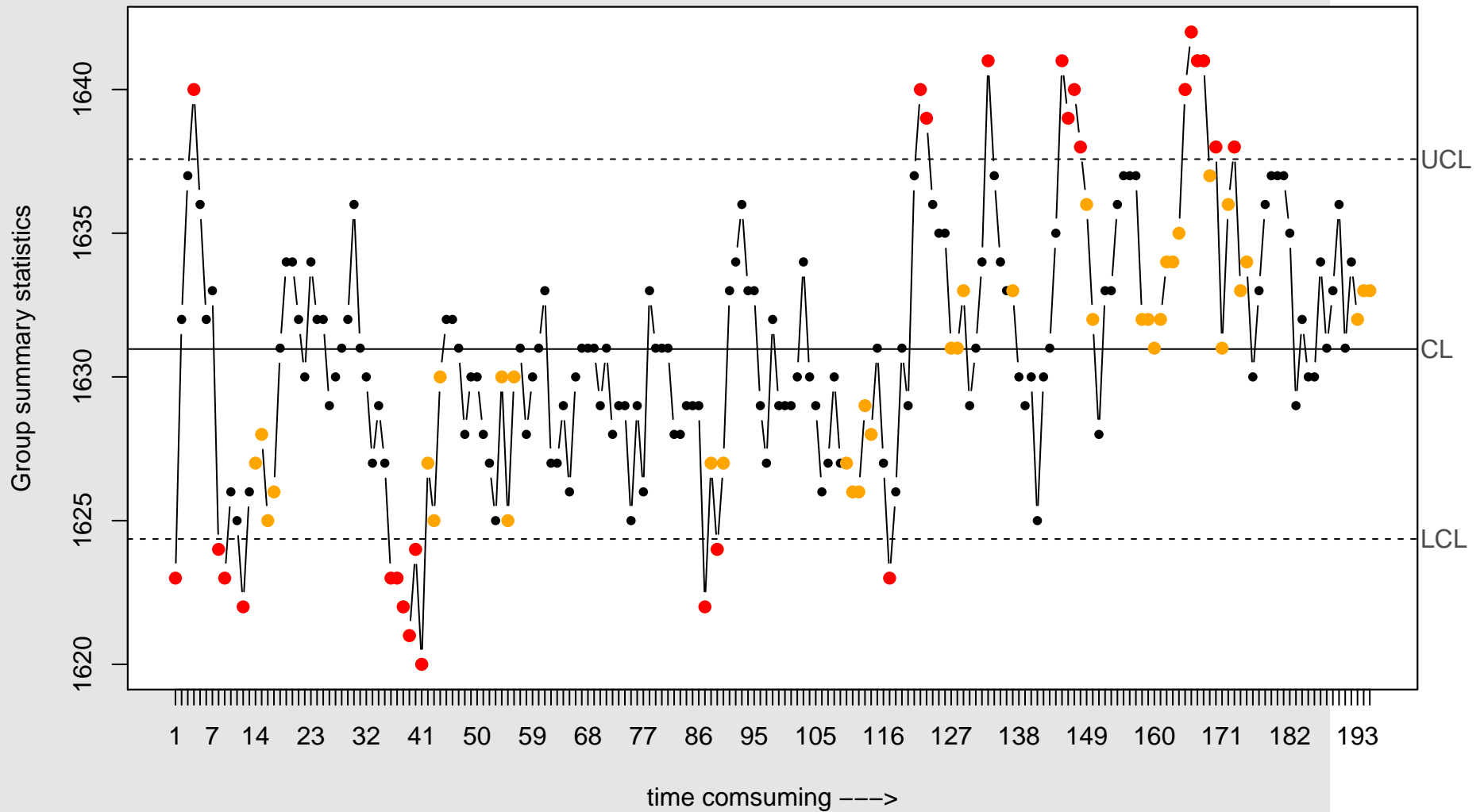
LCL = 1624.767

UCL = 1637.982

Number beyond limits = 34

Number violating runs = 51

120th column point of this product



Number of groups = 195

Center = 1630.969

StdDev = 2.202603

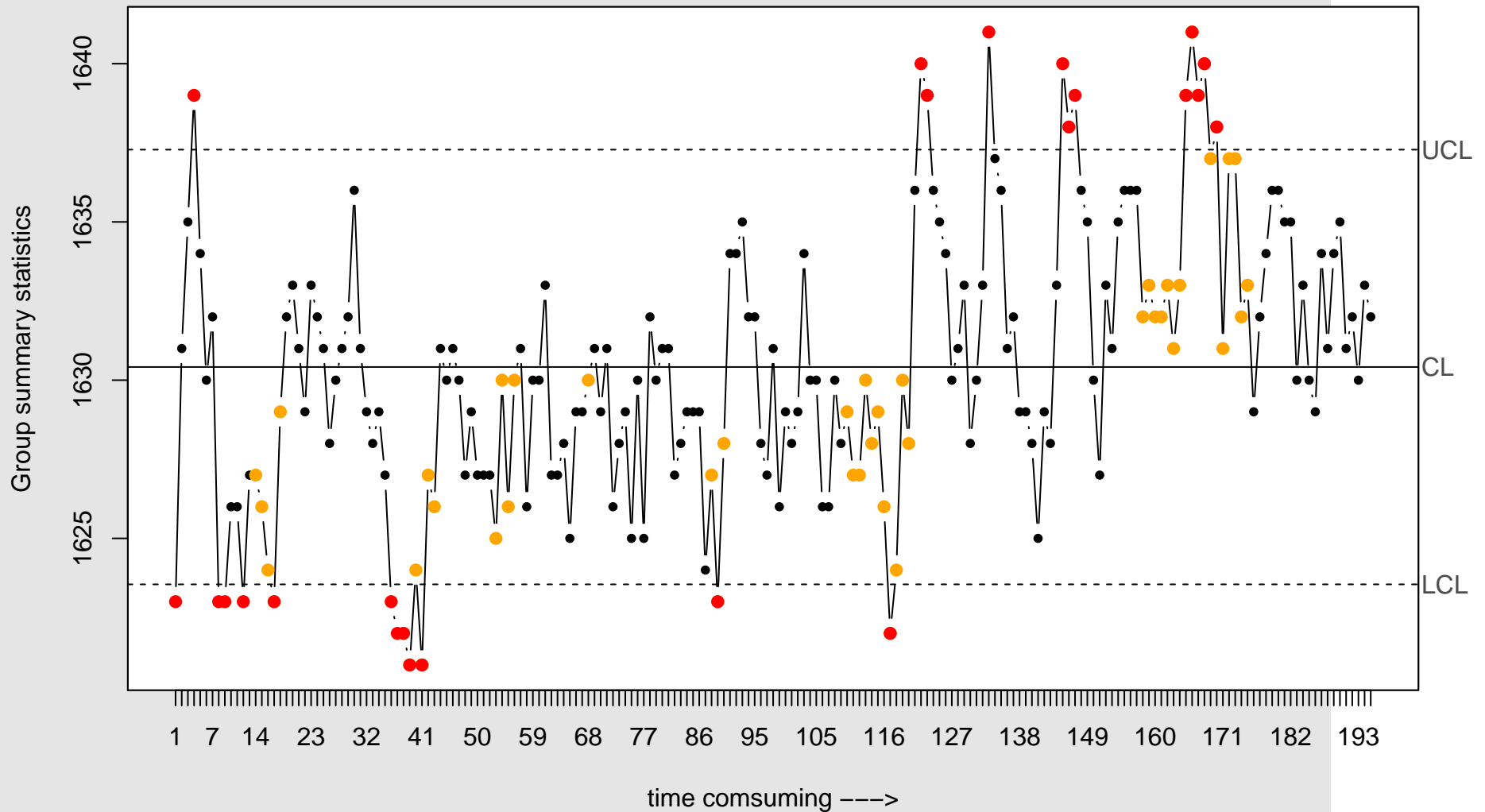
LCL = 1624.361

UCL = 1637.577

Number beyond limits = 27

Number violating runs = 49

121th column point of this product



Number of groups = 195

Center = 1630.415

StdDev = 2.289428

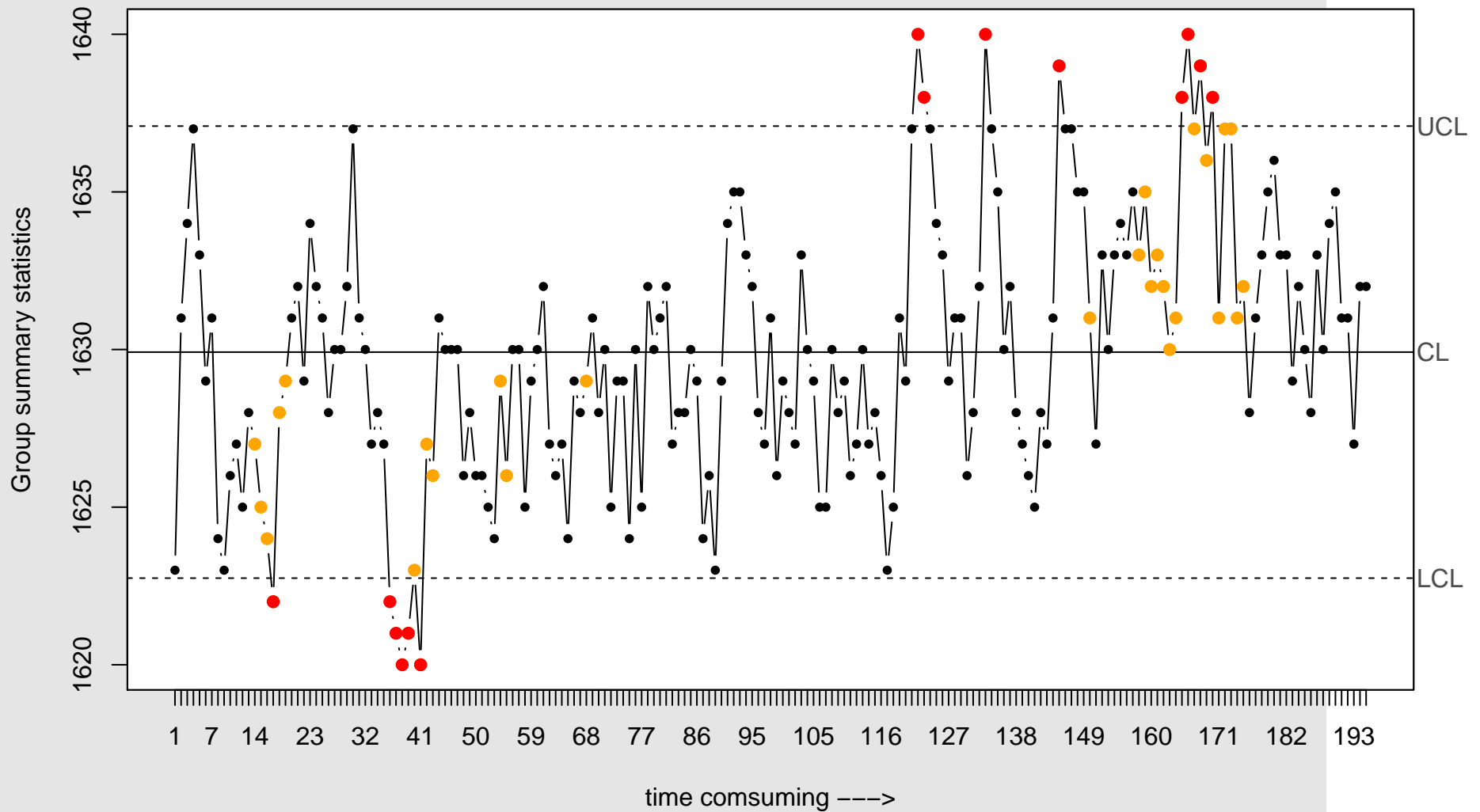
LCL = 1623.547

UCL = 1637.284

Number beyond limits = 24

Number violating runs = 48

122th column point of this product

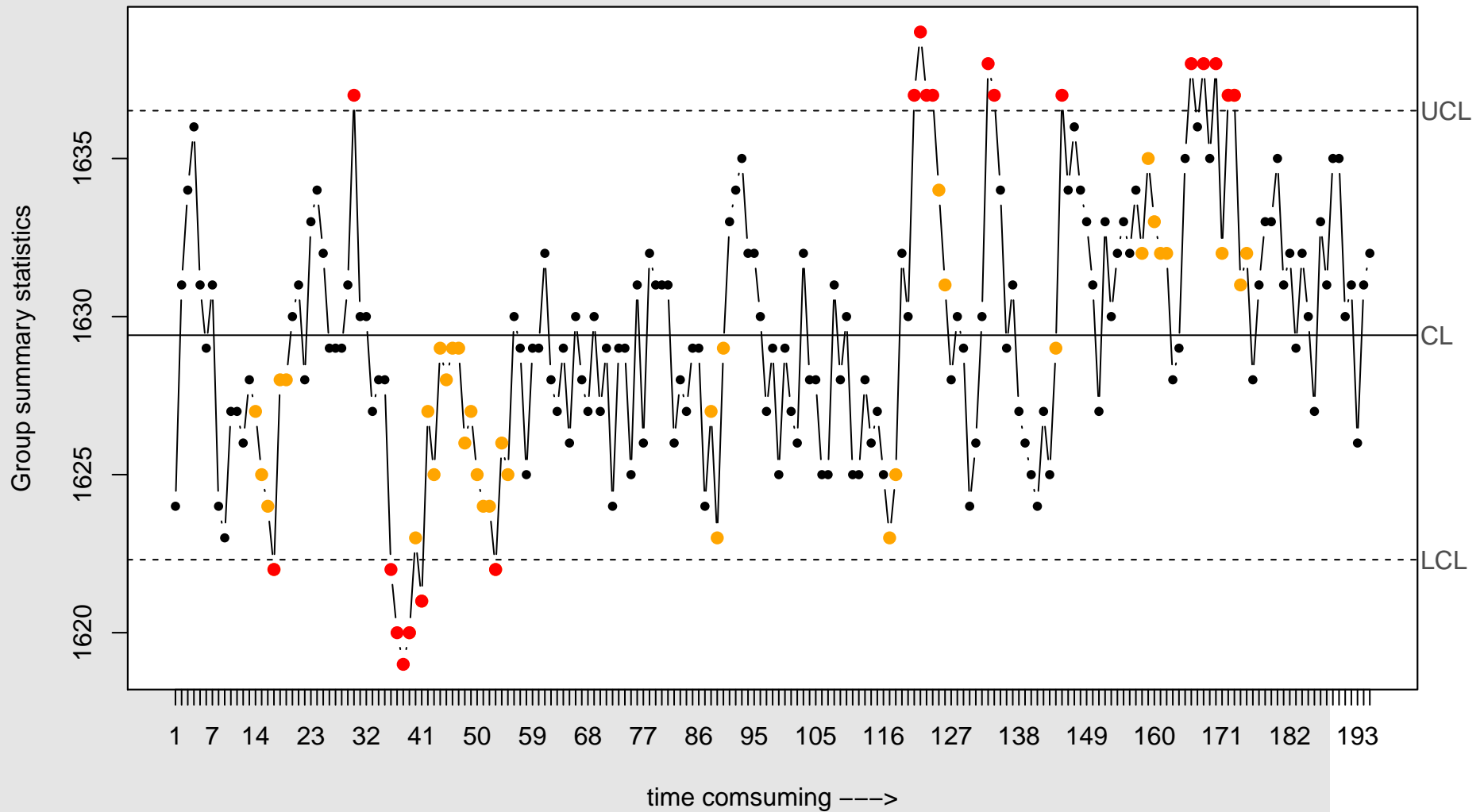


Number of groups = 195
Center = 1629.918
StdDev = 2.389961

LCL = 1622.748
UCL = 1637.088

Number beyond limits = 14
Number violating runs = 33

123th column point of this product



Number of groups = 195

Center = 1629.41

StdDev = 2.367113

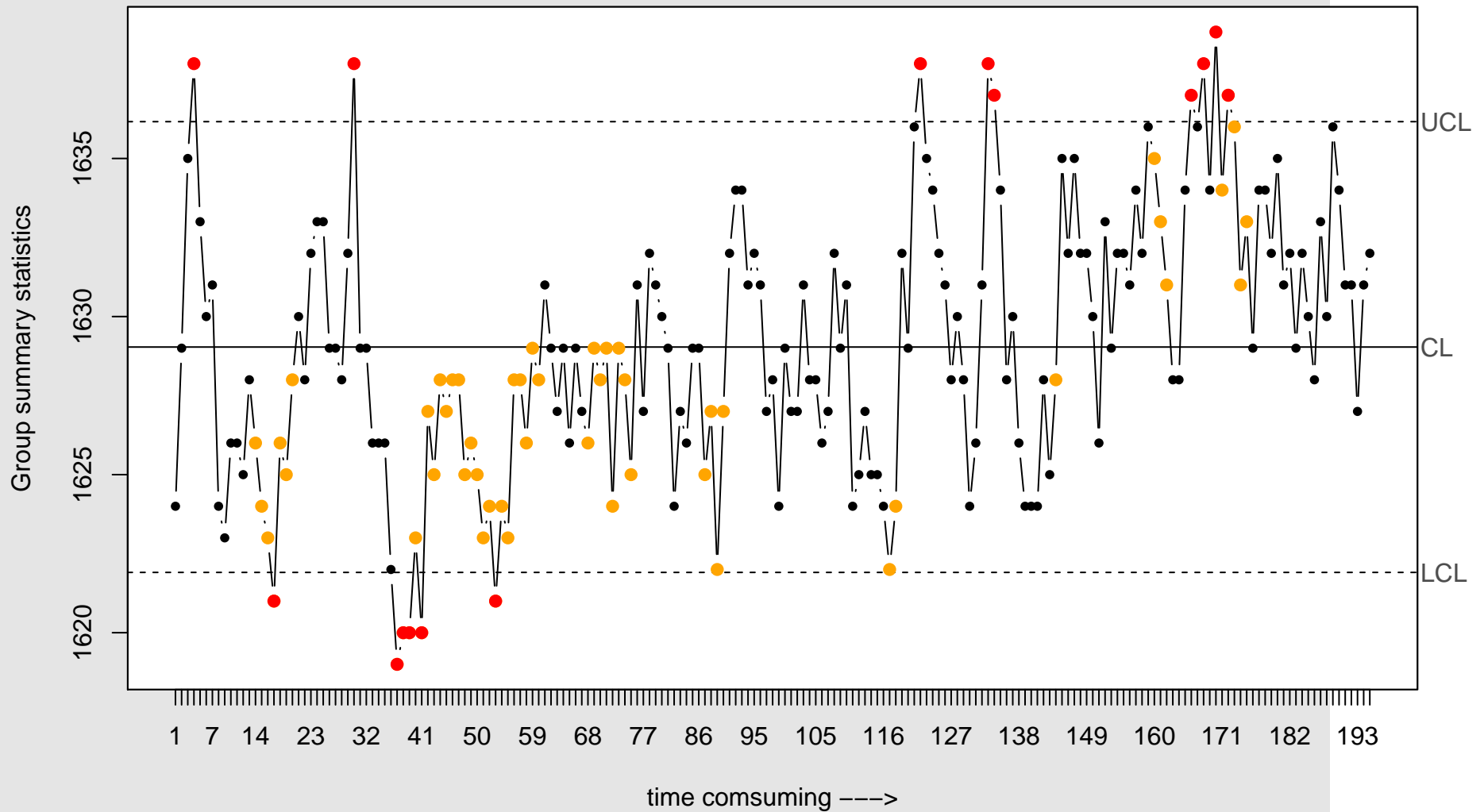
LCL = 1622.309

UCL = 1636.512

Number beyond limits = 20

Number violating runs = 41

124th column point of this product

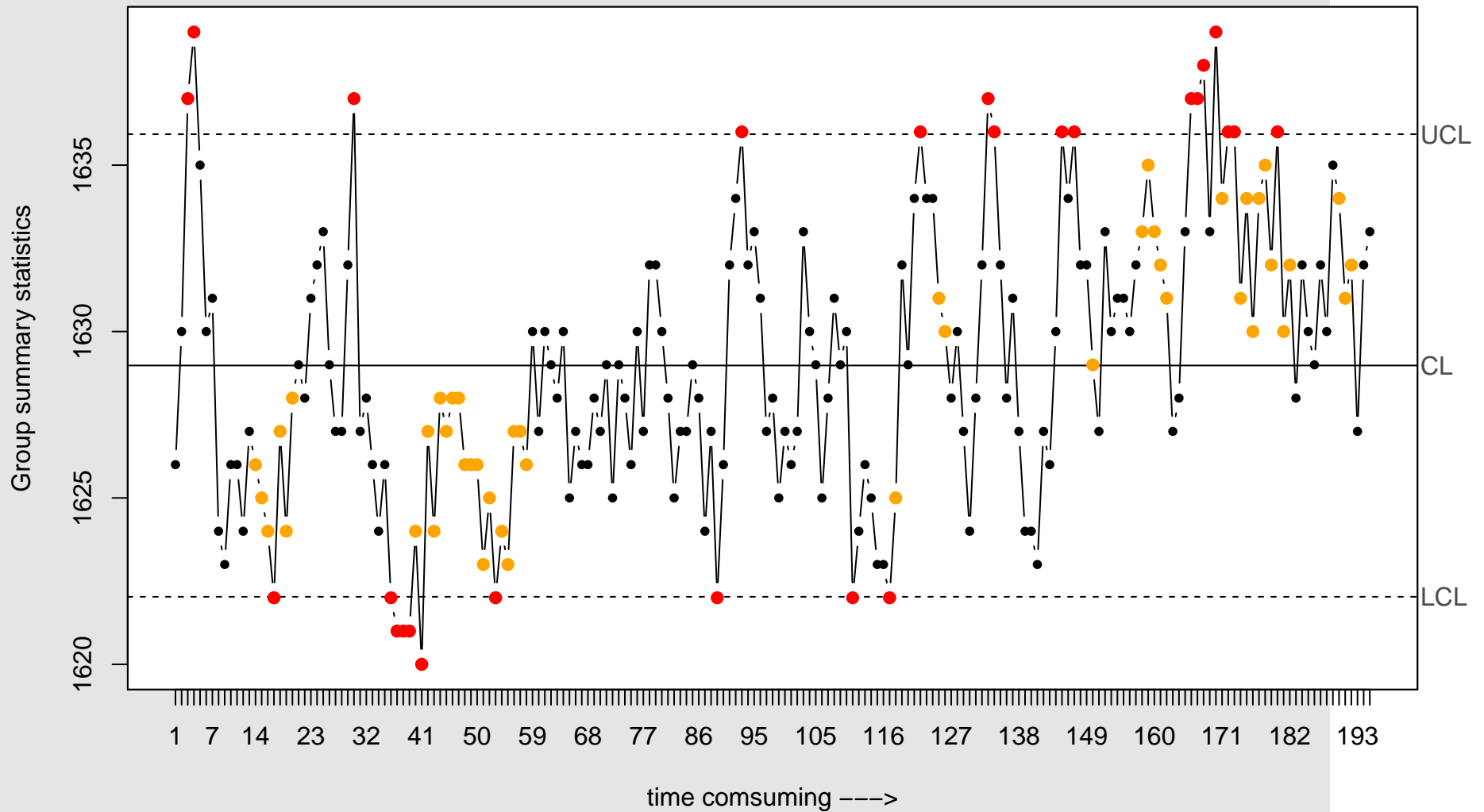


Number of groups = 195
Center = 1629.036
StdDev = 2.376252

LCL = 1621.907
UCL = 1636.165

Number beyond limits = 15
Number violating runs = 54

125th column point of this product



Number of groups = 195

Center = 1628.979

StdDev = 2.316846

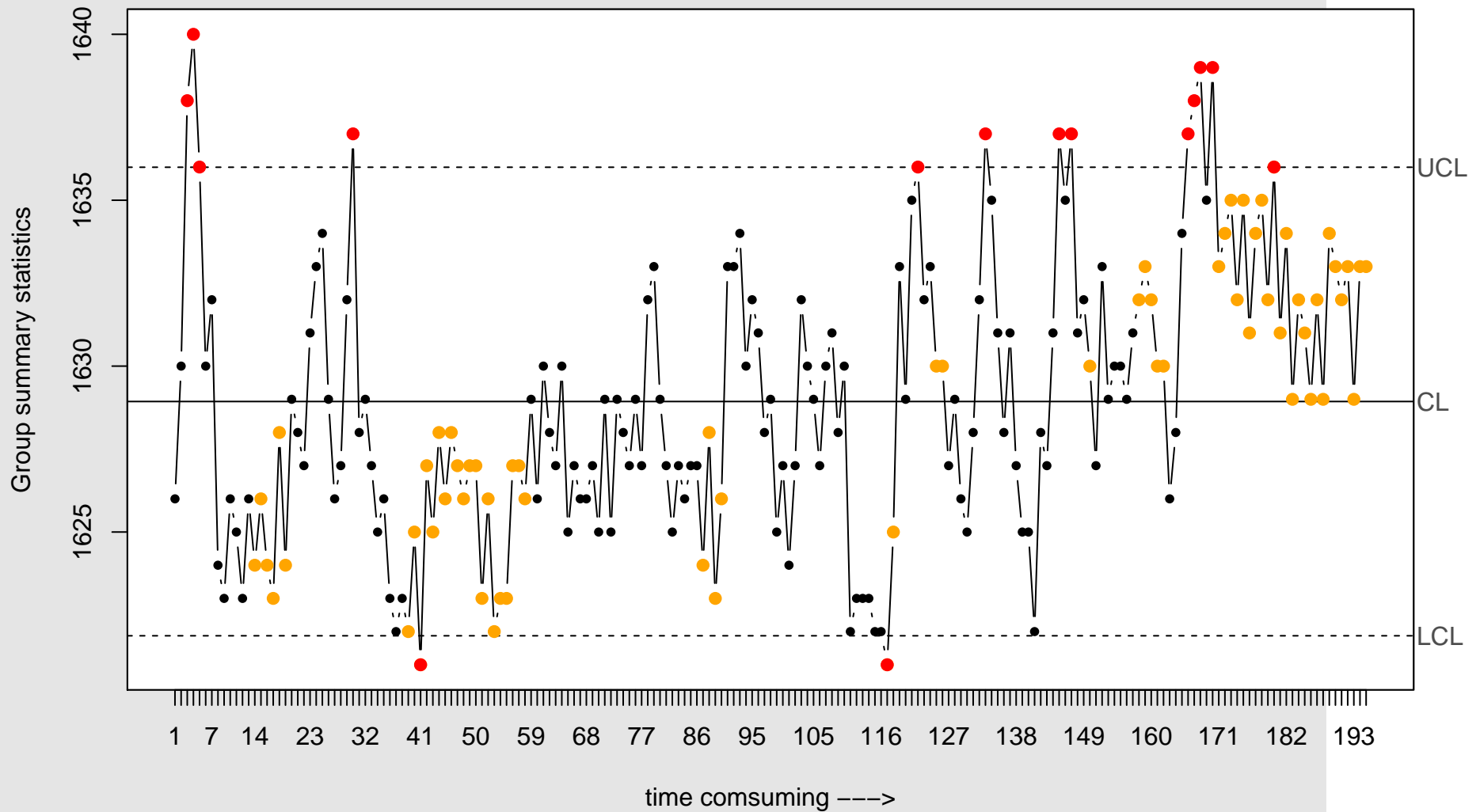
LCL = 1622.029

UCL = 1635.93

Number beyond limits = 26

Number violating runs = 54

126th column point of this product



Number of groups = 195

Center = 1628.933

StdDev = 2.353404

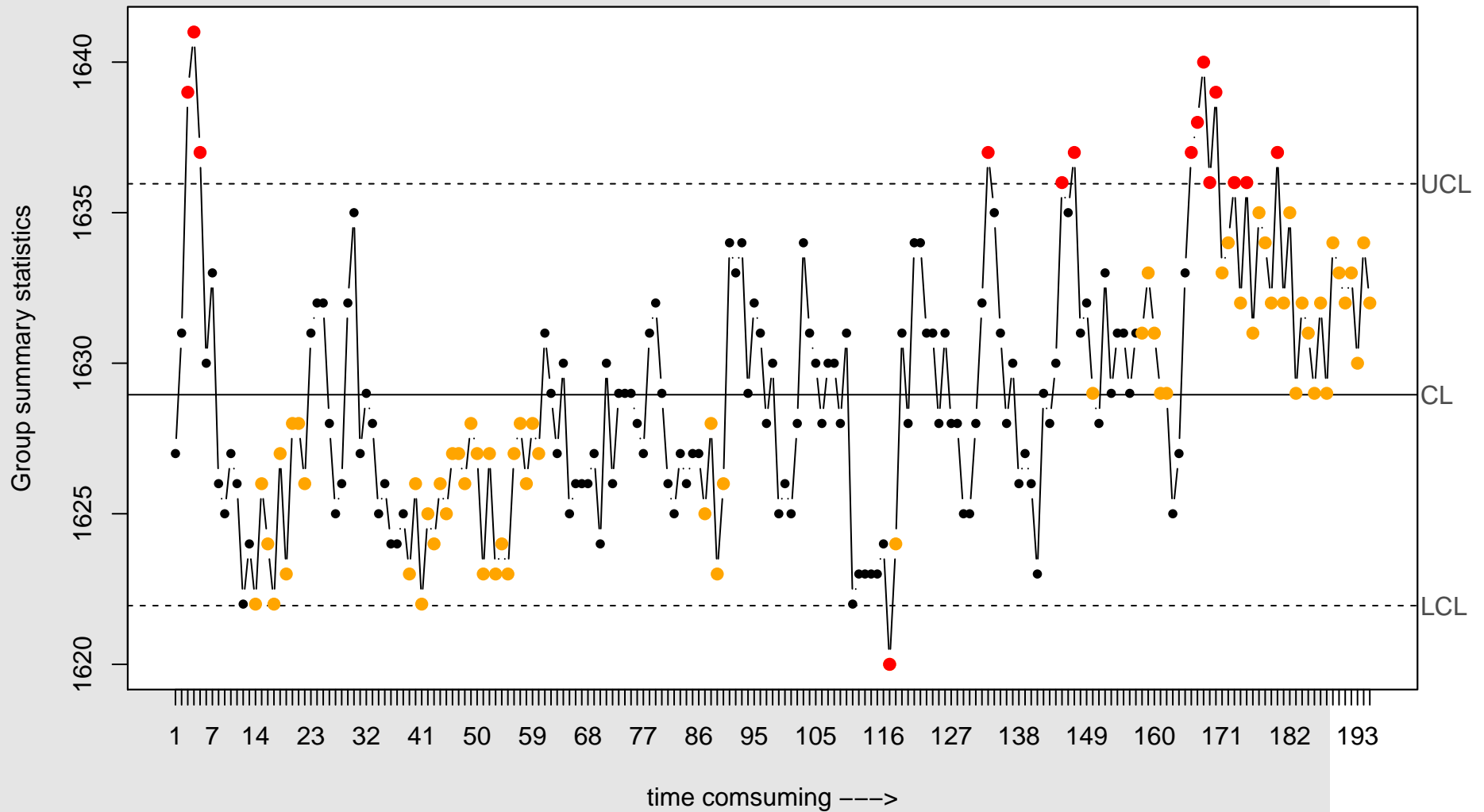
LCL = 1621.873

UCL = 1635.994

Number beyond limits = 15

Number violating runs = 65

127th column point of this product



Number of groups = 195

Center = 1628.954

StdDev = 2.335125

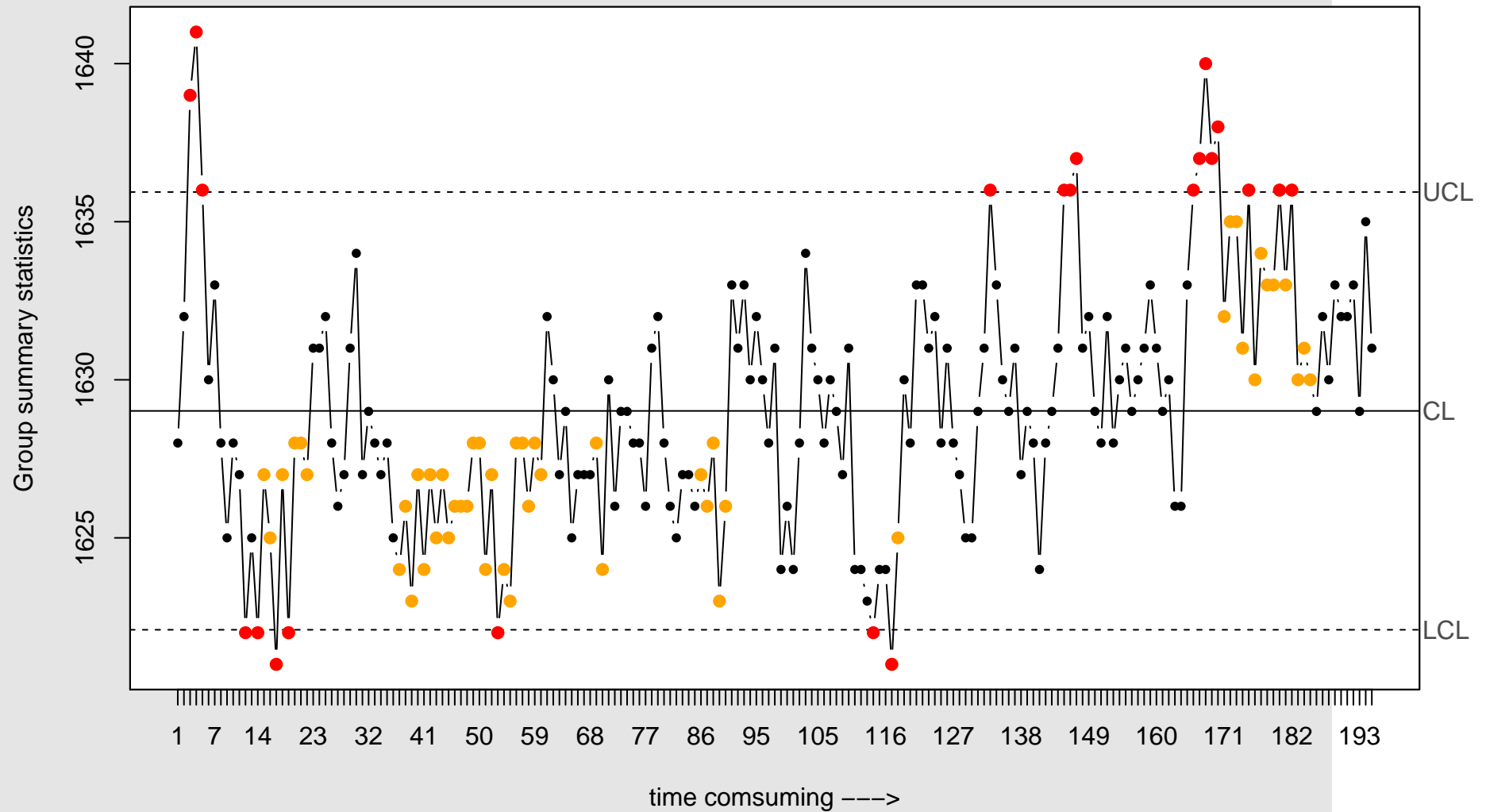
LCL = 1621.948

UCL = 1635.959

Number beyond limits = 15

Number violating runs = 68

128th column point of this product



Number of groups = 195

Center = 1629.015

StdDev = 2.307706

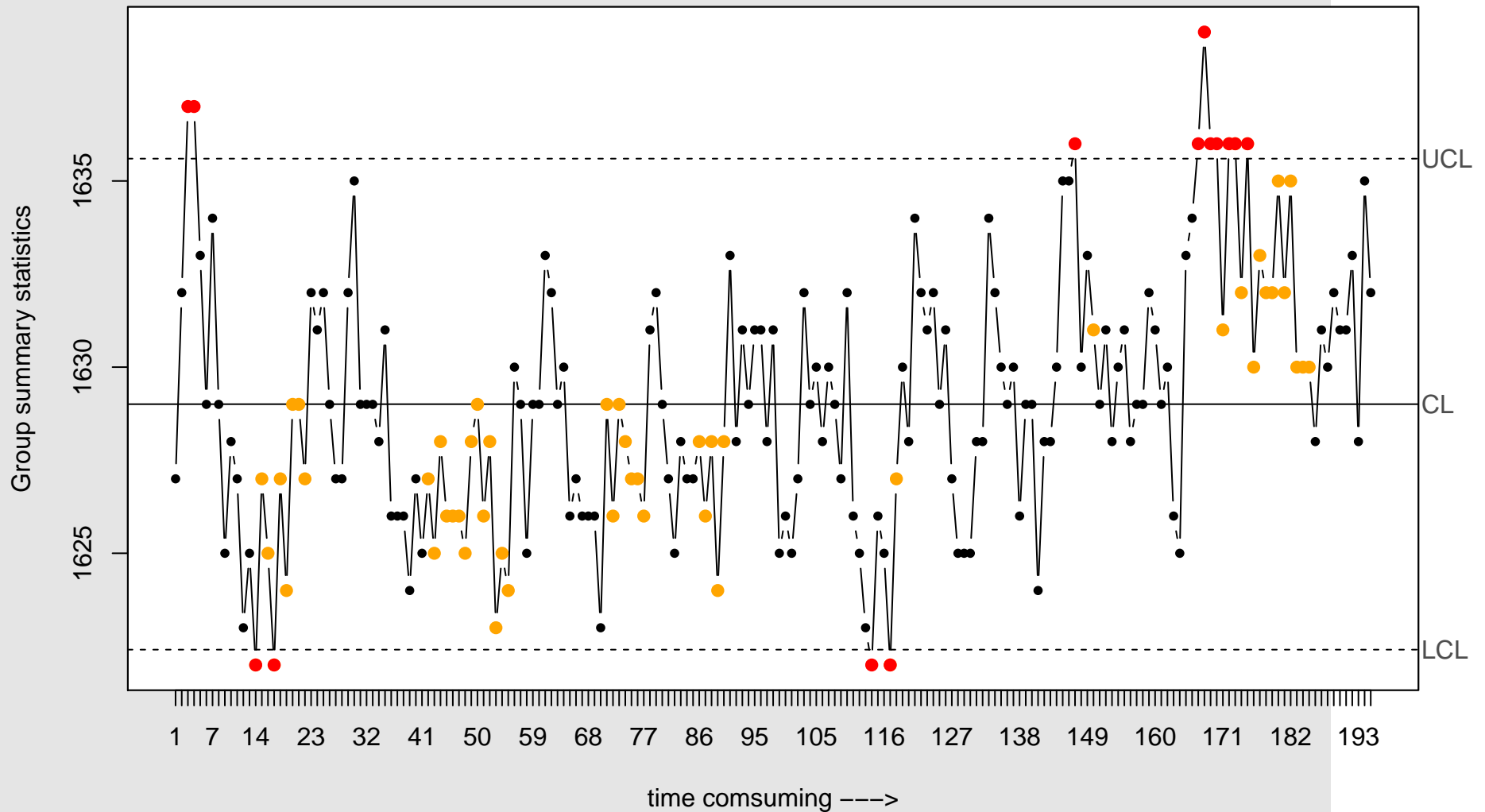
LCL = 1622.092

UCL = 1635.939

Number beyond limits = 22

Number violating runs = 57

129th column point of this product



Number of groups = 195

Center = 1629.005

StdDev = 2.198033

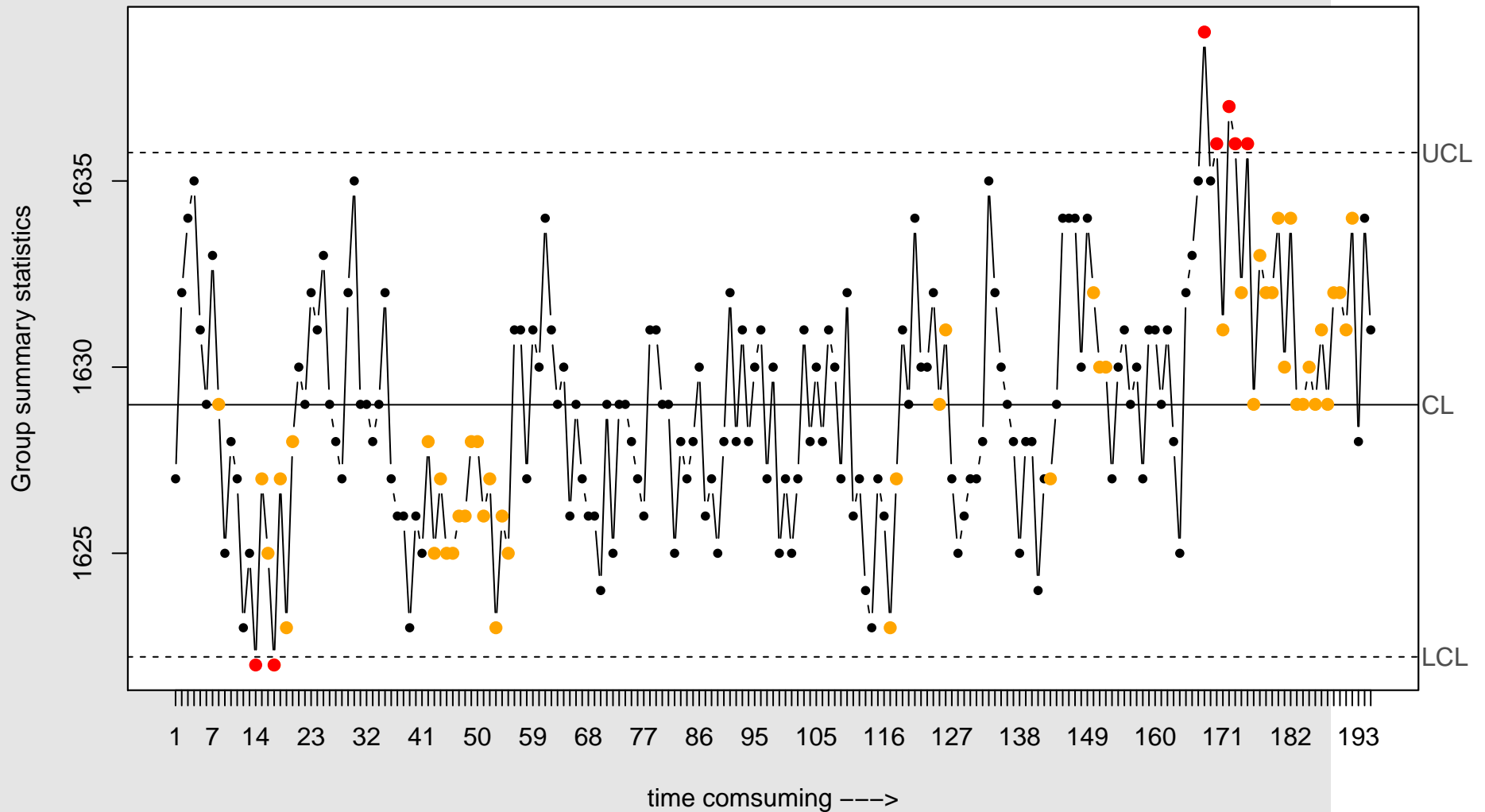
LCL = 1622.411

UCL = 1635.599

Number beyond limits = 14

Number violating runs = 53

130th column point of this product



Number of groups = 195

Center = 1628.99

StdDev = 2.257439

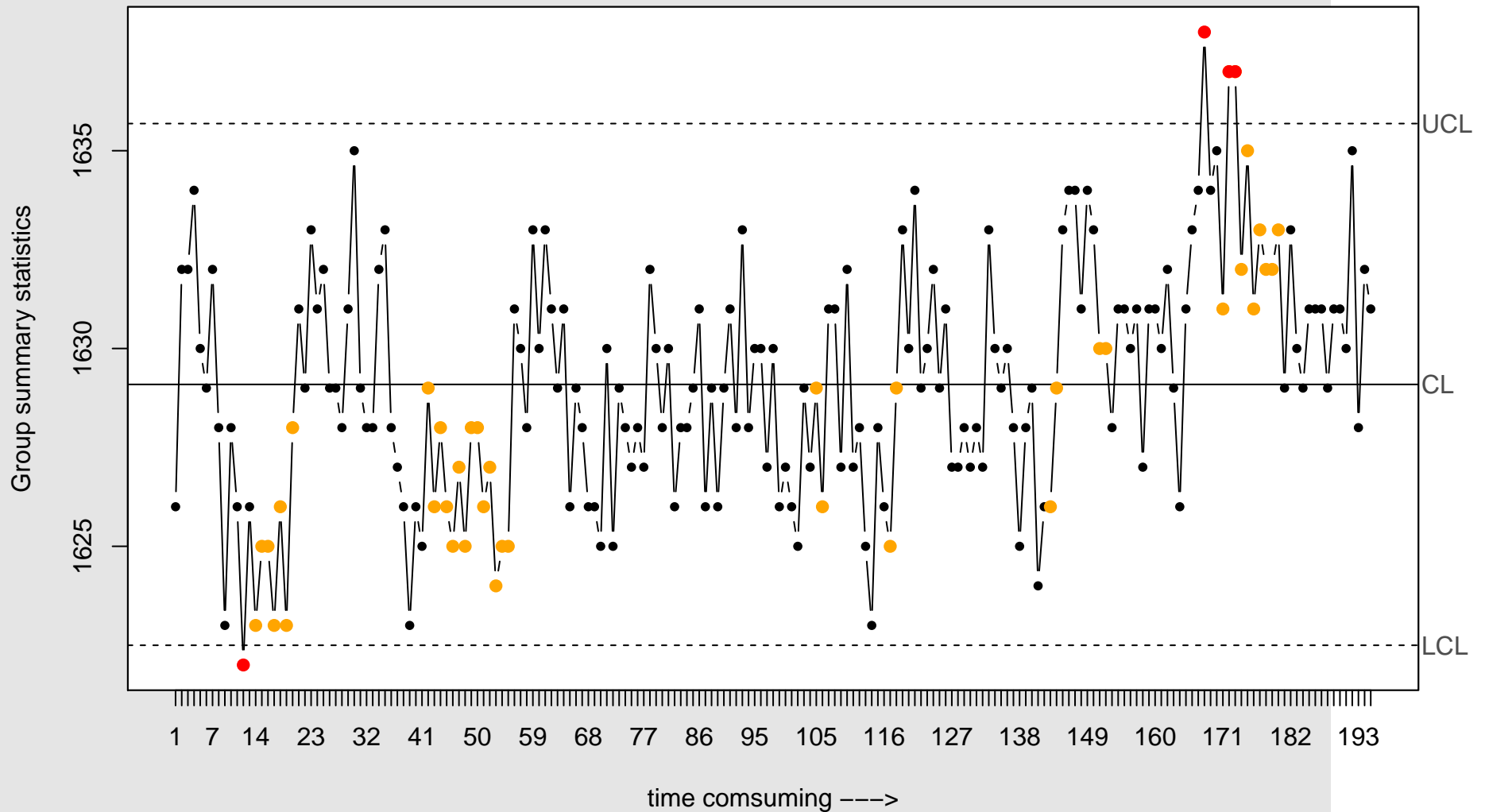
LCL = 1622.217

UCL = 1635.762

Number beyond limits = 7

Number violating runs = 51

131th column point of this product



Number of groups = 195

Center = 1629.092

StdDev = 2.198033

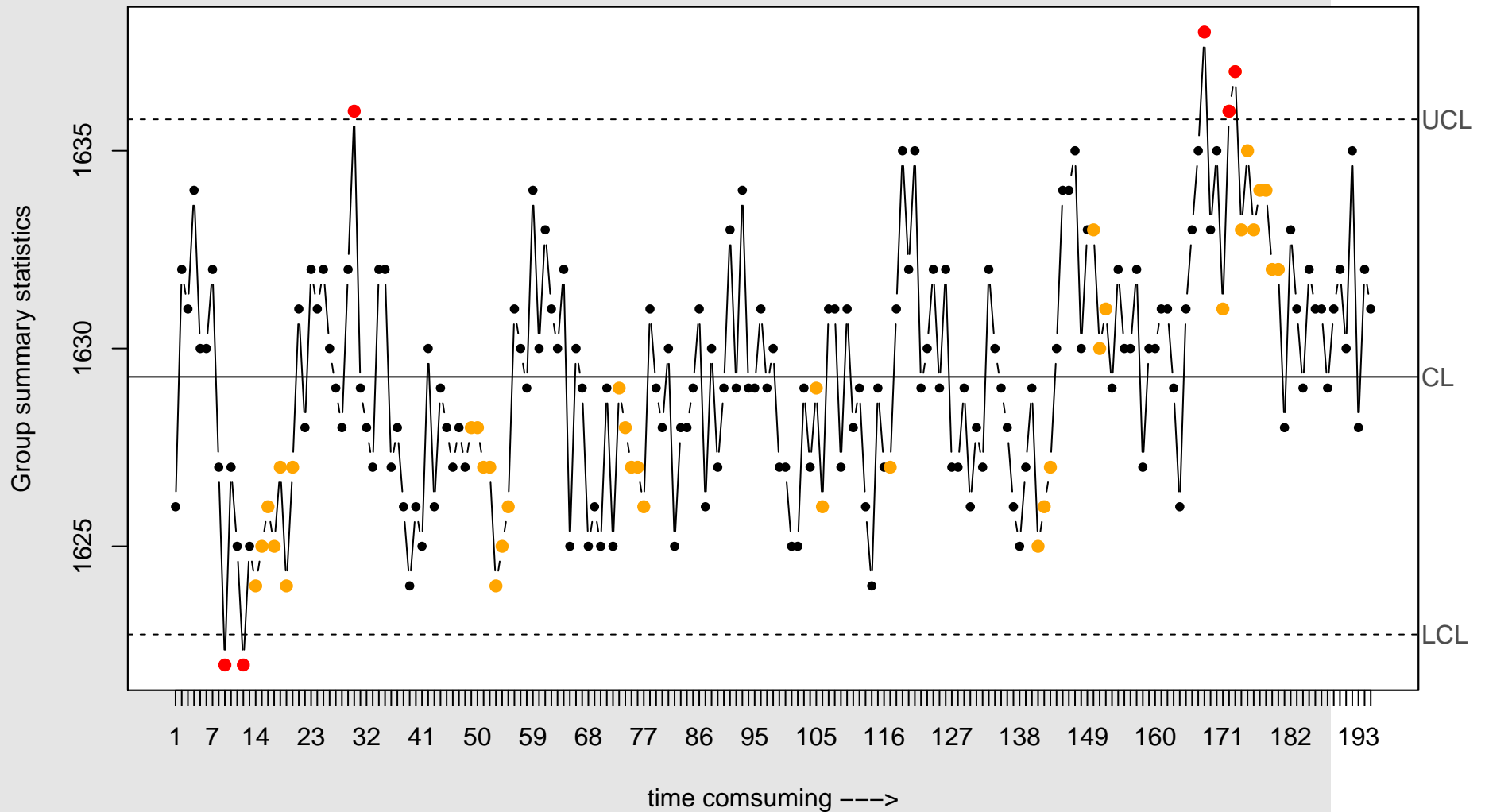
LCL = 1622.498

UCL = 1635.686

Number beyond limits = 4

Number violating runs = 39

132th column point of this product



Number of groups = 195

Center = 1629.282

StdDev = 2.170615

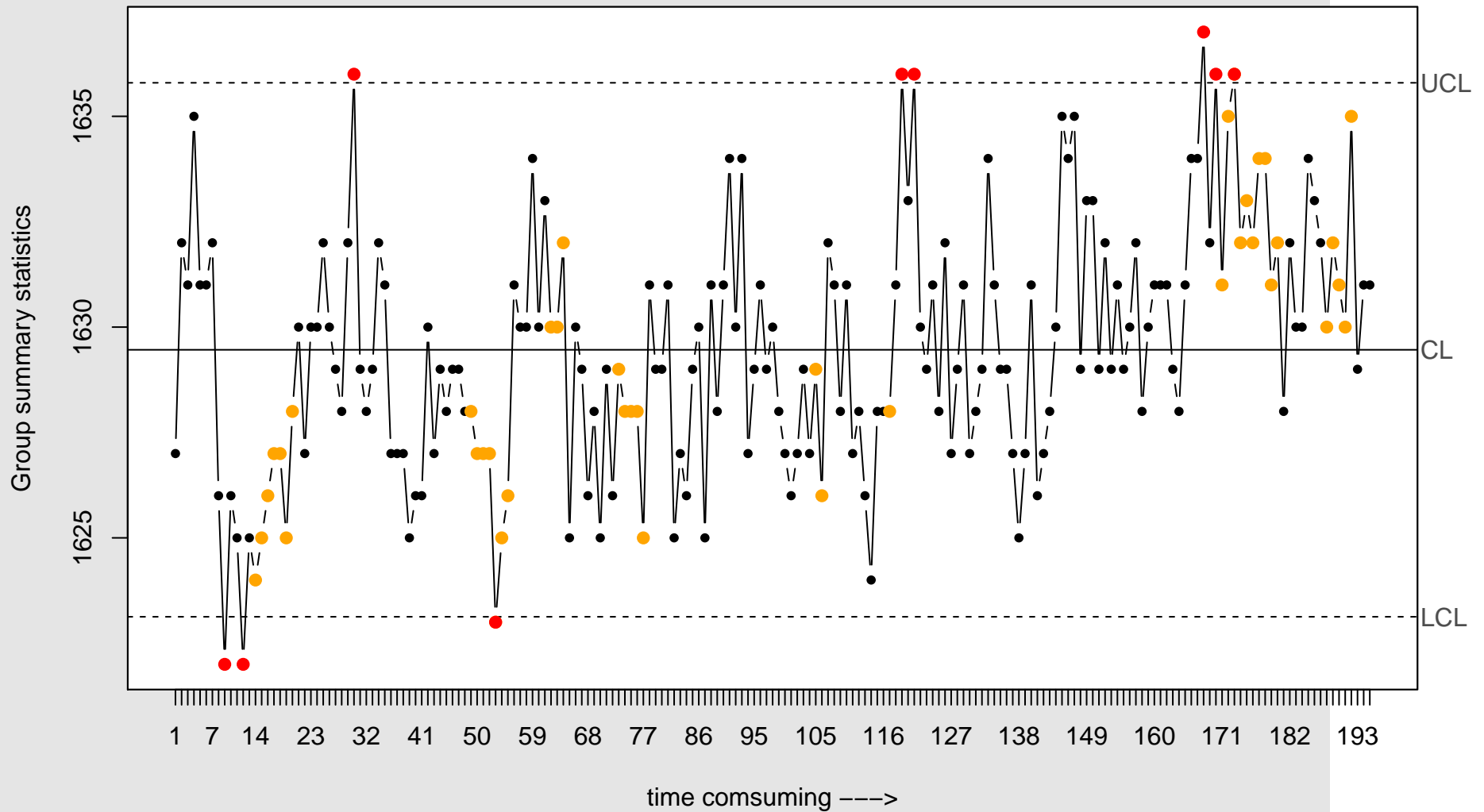
LCL = 1622.77

UCL = 1635.794

Number beyond limits = 6

Number violating runs = 38

133th column point of this product



Number of groups = 195

Center = 1629.462

StdDev = 2.111209

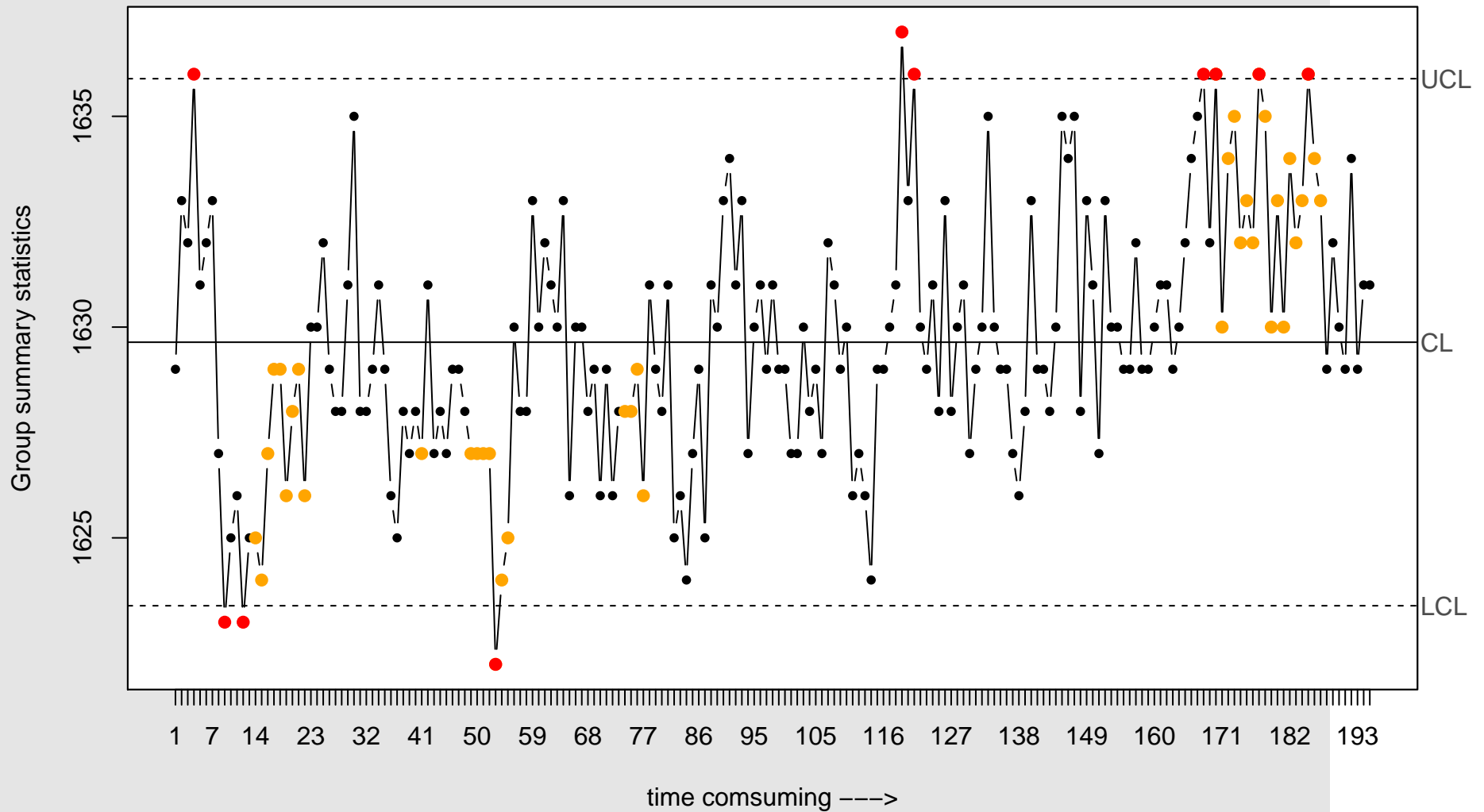
LCL = 1623.128

UCL = 1635.795

Number beyond limits = 9

Number violating runs = 40

134th column point of this product



Number of groups = 195

Center = 1629.641

StdDev = 2.08379

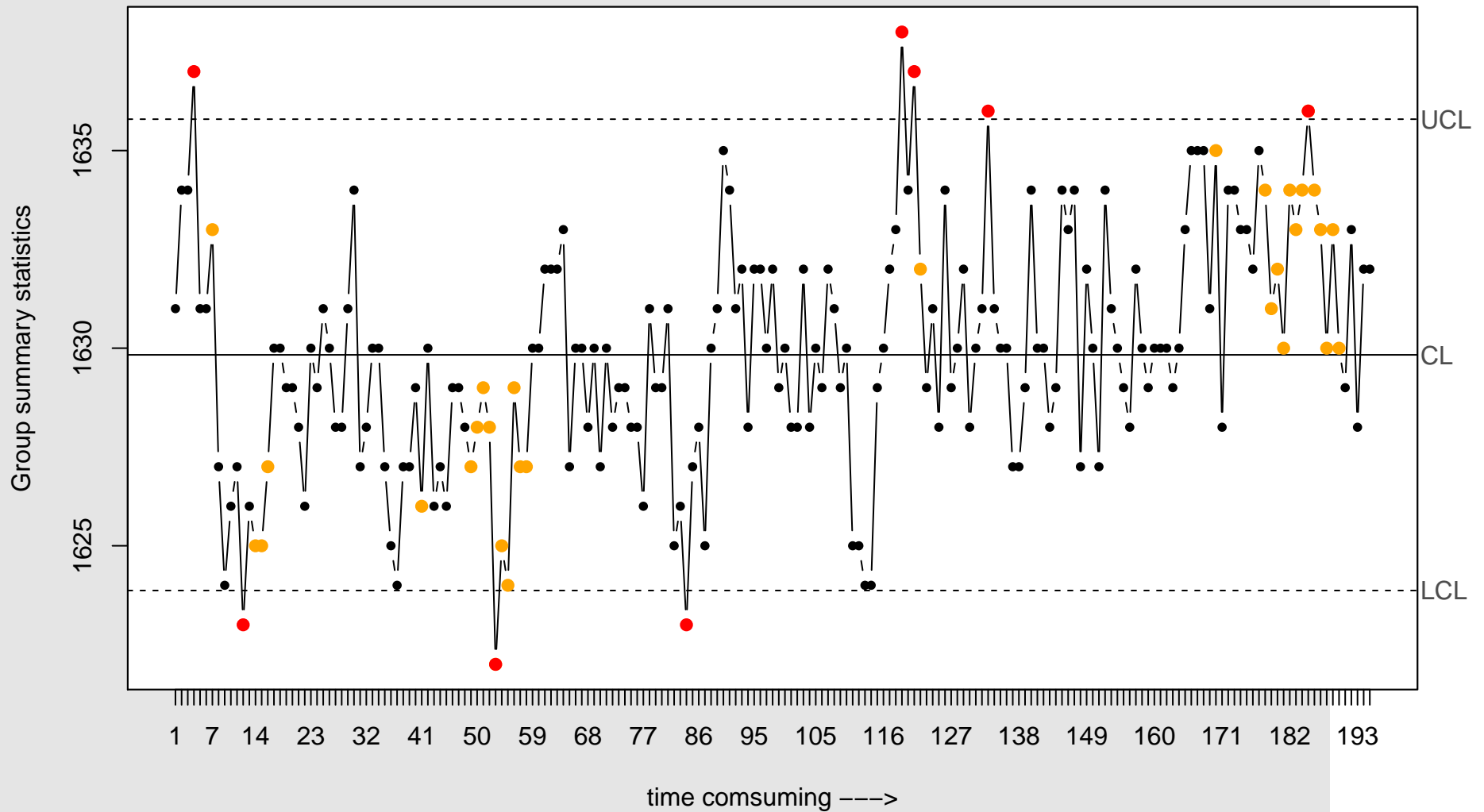
LCL = 1623.39

UCL = 1635.892

Number beyond limits = 10

Number violating runs = 39

135th column point of this product

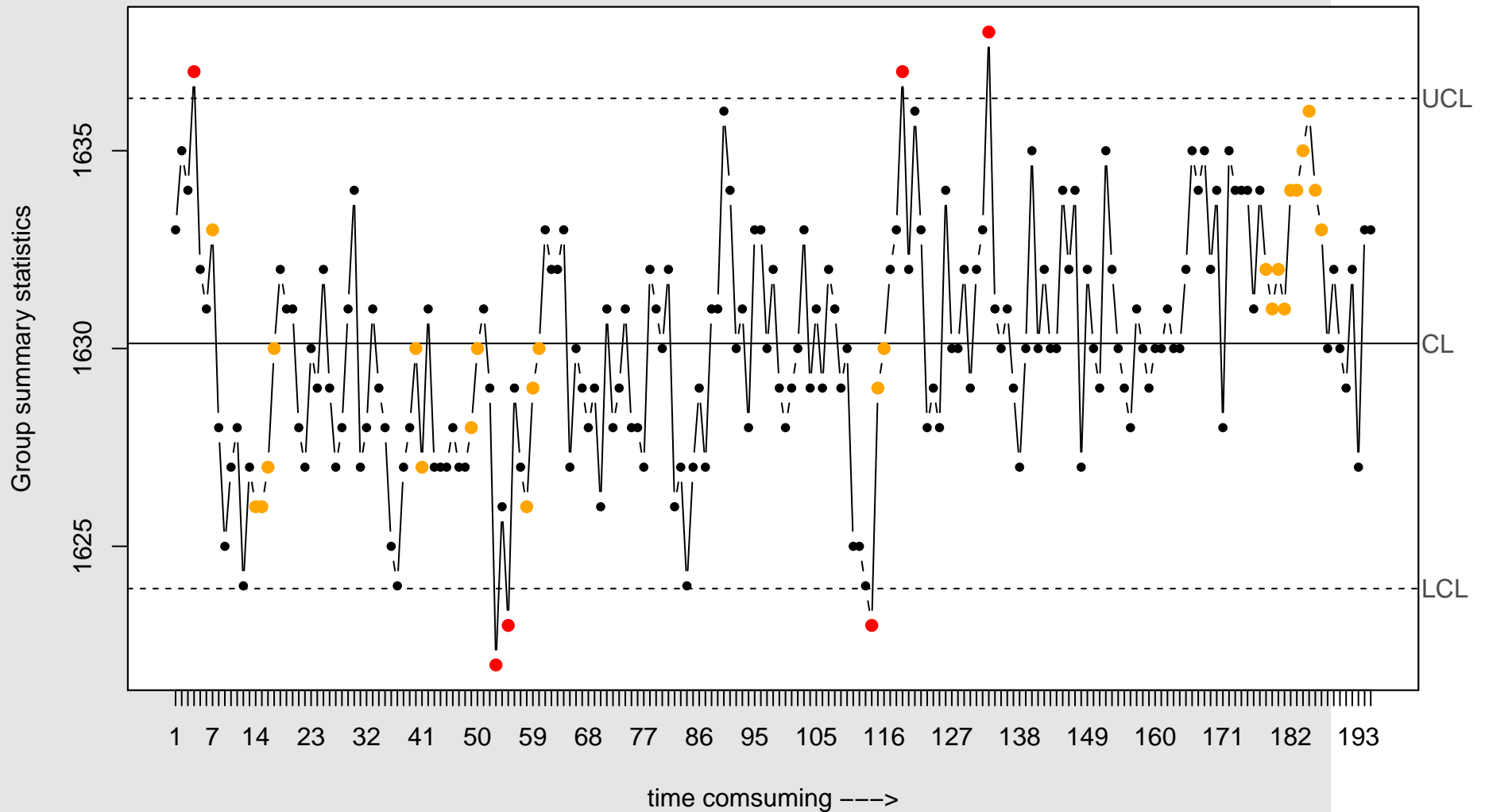


Number of groups = 195
Center = 1629.831
StdDev = 1.987826

LCL = 1623.867
UCL = 1635.794

Number beyond limits = 8
Number violating runs = 30

136th column point of this product



Number of groups = 195

Center = 1630.128

StdDev = 2.065511

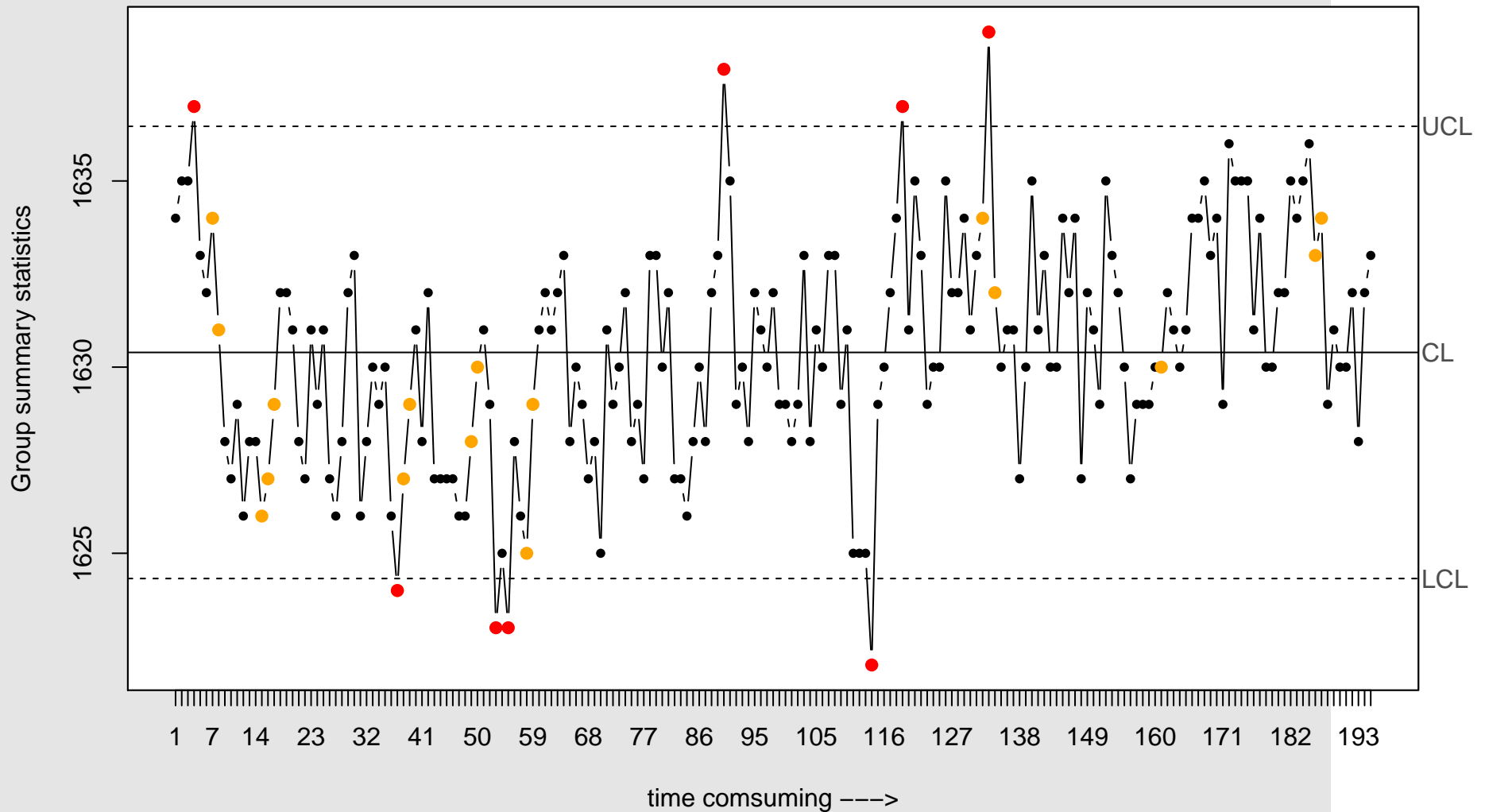
LCL = 1623.932

UCL = 1636.325

Number beyond limits = 6

Number violating runs = 24

137th column point of this product



Number of groups = 195

Center = 1630.395

StdDev = 2.024384

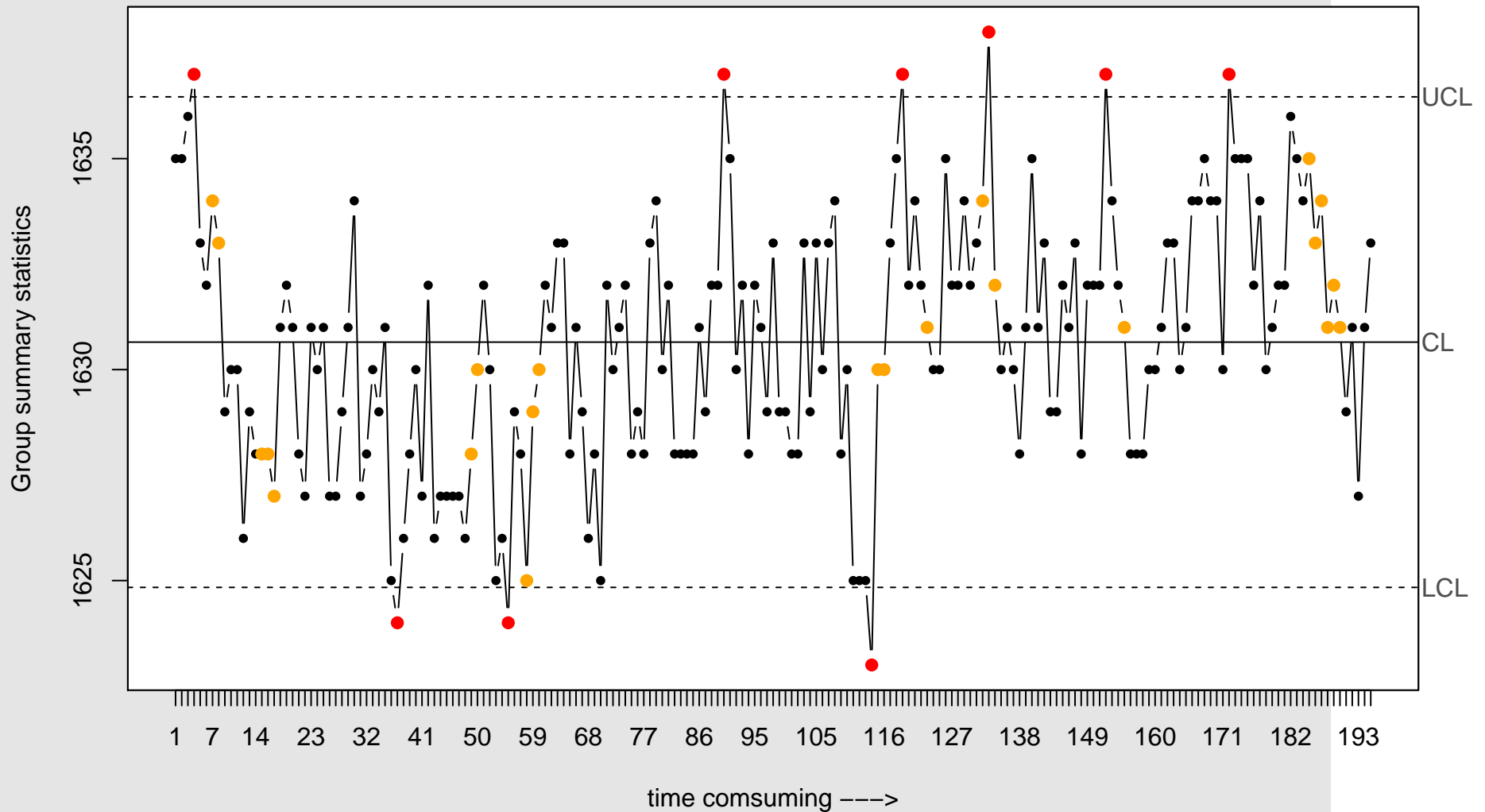
LCL = 1624.322

UCL = 1636.468

Number beyond limits = 8

Number violating runs = 18

138th column point of this product



Number of groups = 195

Center = 1630.651

StdDev = 1.937559

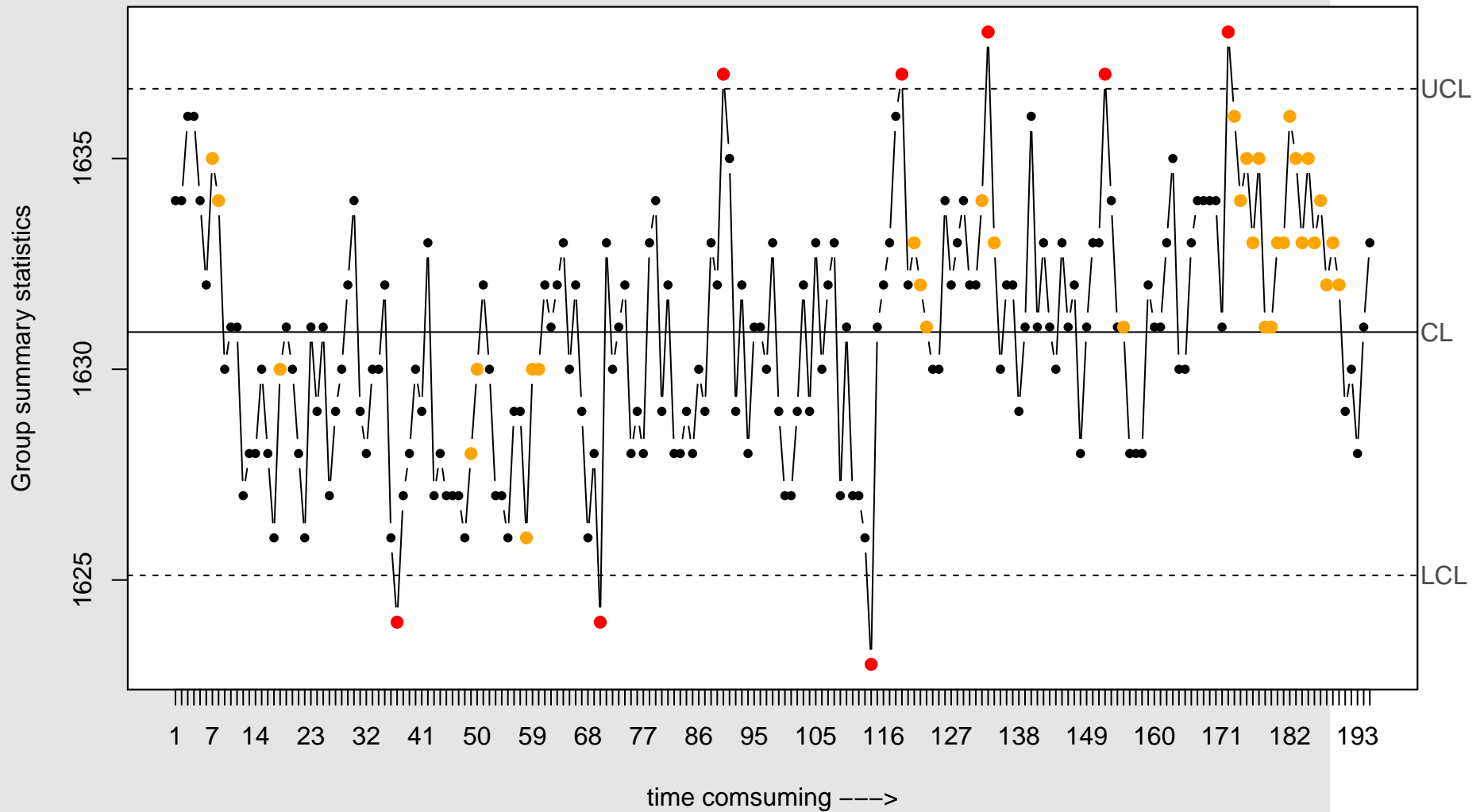
LCL = 1624.839

UCL = 1636.464

Number beyond limits = 9

Number violating runs = 23

139th column point of this product

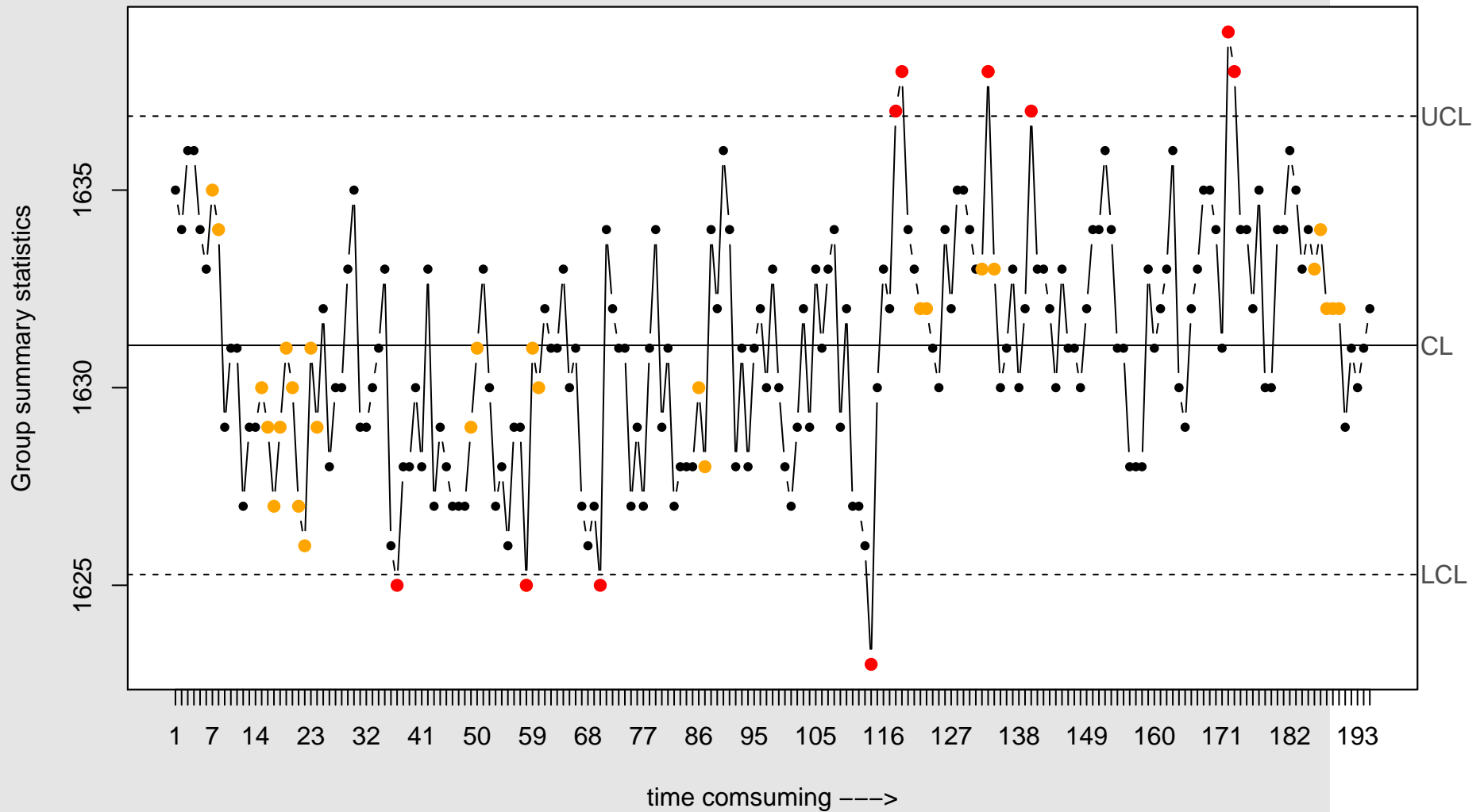


Number of groups = 195
Center = 1630.882
StdDev = 1.92385

LCL = 1625.111
UCL = 1636.654

Number beyond limits = 8
Number violating runs = 34

140th column point of this product



Number of groups = 195

Center = 1631.072

StdDev = 1.93299

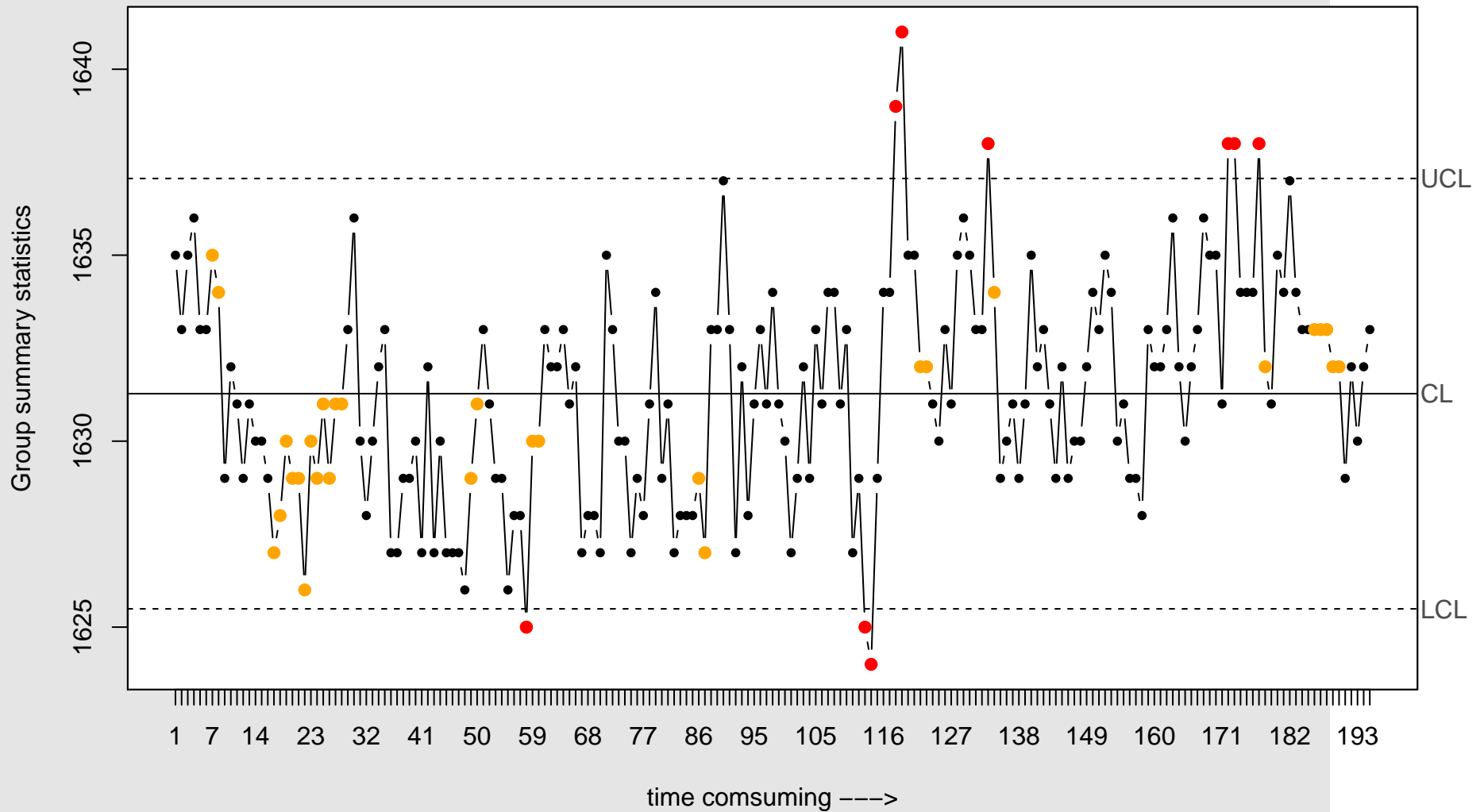
LCL = 1625.273

UCL = 1636.871

Number beyond limits = 10

Number violating runs = 29

141th column point of this product

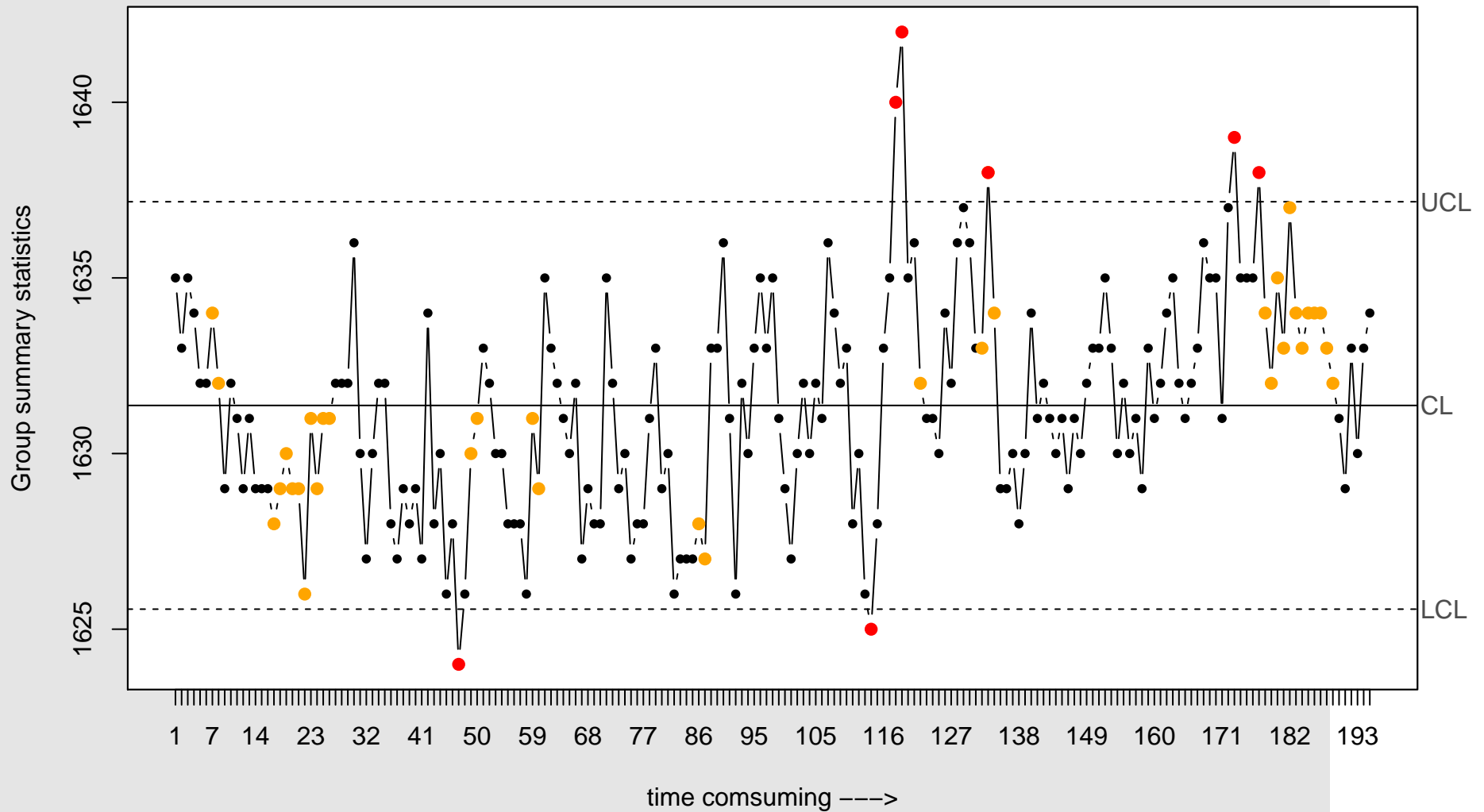


Number of groups = 195
Center = 1631.277
StdDev = 1.92842

LCL = 1625.492
UCL = 1637.062

Number beyond limits = 9
Number violating runs = 30

142th column point of this product



Number of groups = 195

Center = 1631.369

StdDev = 1.93299

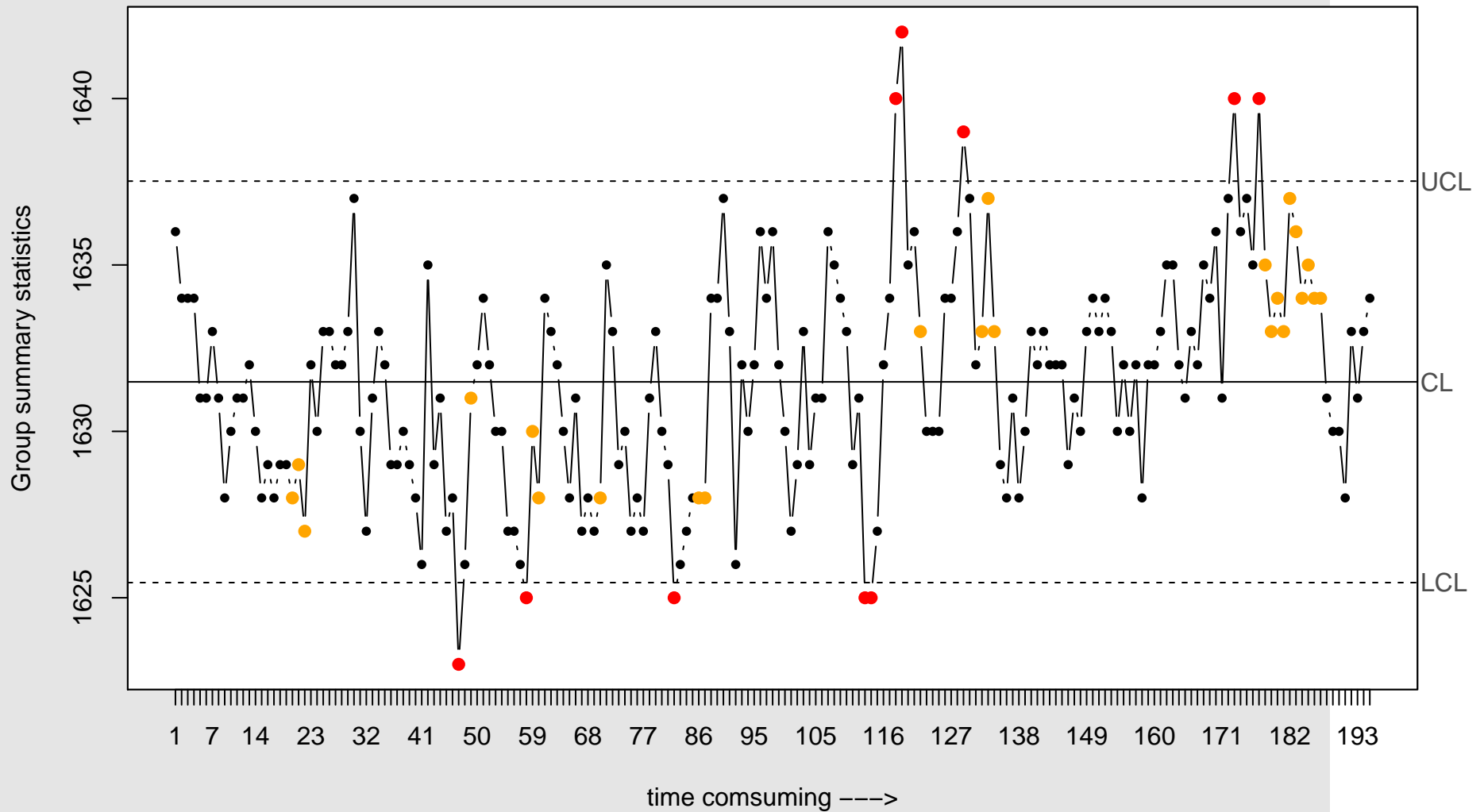
LCL = 1625.57

UCL = 1637.168

Number beyond limits = 7

Number violating runs = 34

143th column point of this product



Number of groups = 195

Center = 1631.487

StdDev = 2.010675

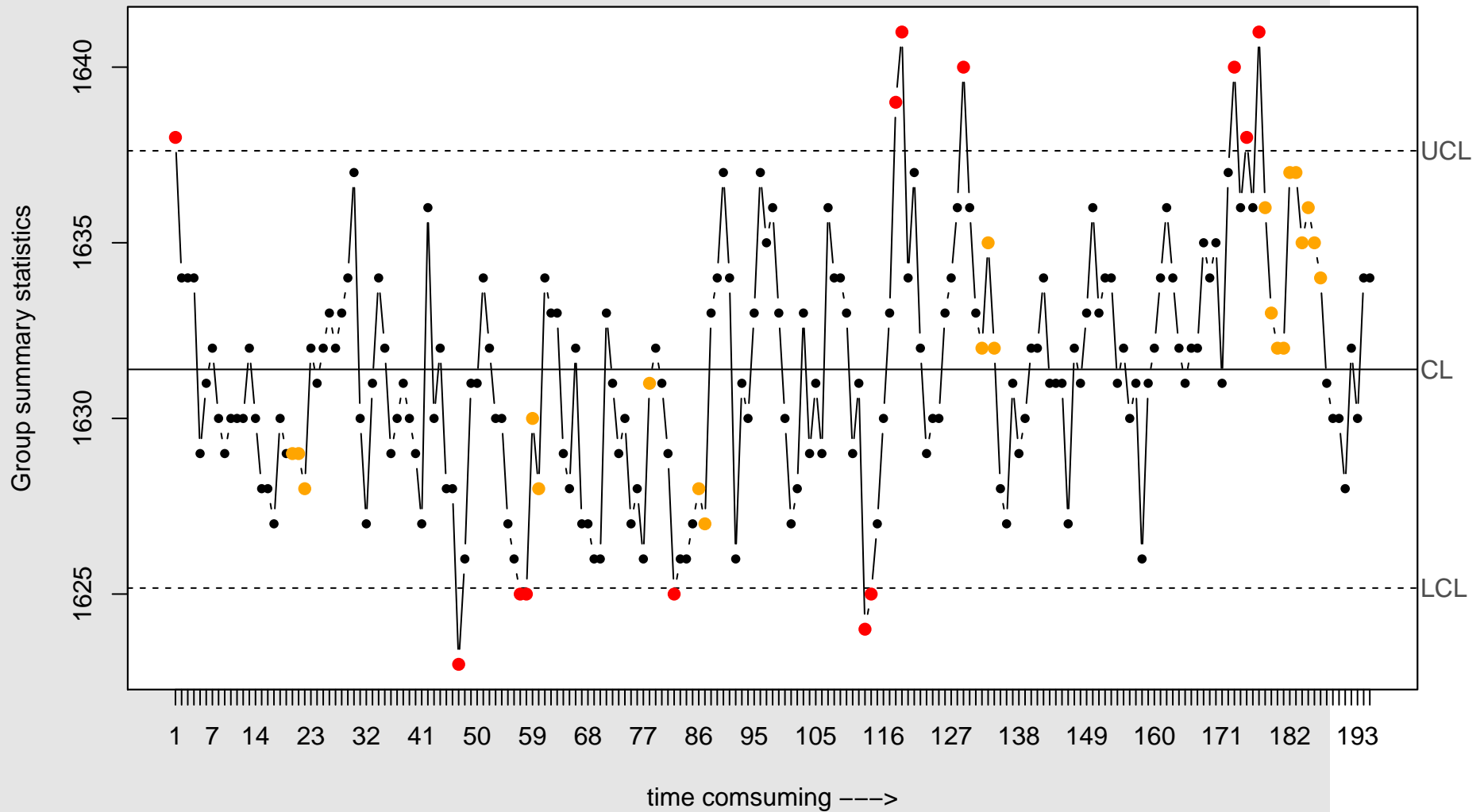
LCL = 1625.455

UCL = 1637.519

Number beyond limits = 10

Number violating runs = 23

144th column point of this product



Number of groups = 195

Center = 1631.395

StdDev = 2.074651

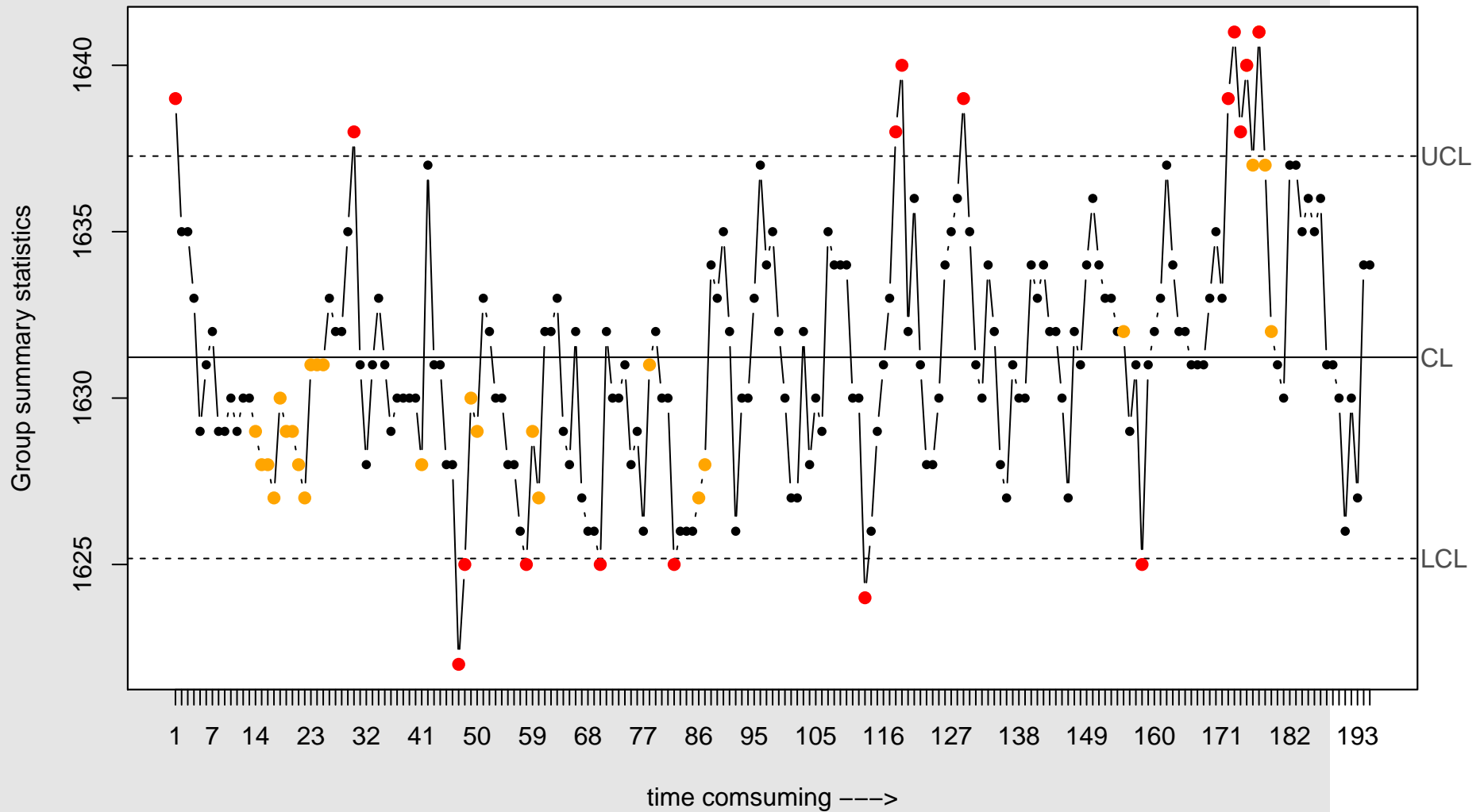
LCL = 1625.171

UCL = 1637.619

Number beyond limits = 13

Number violating runs = 21

145th column point of this product



Number of groups = 195

Center = 1631.226

StdDev = 2.015245

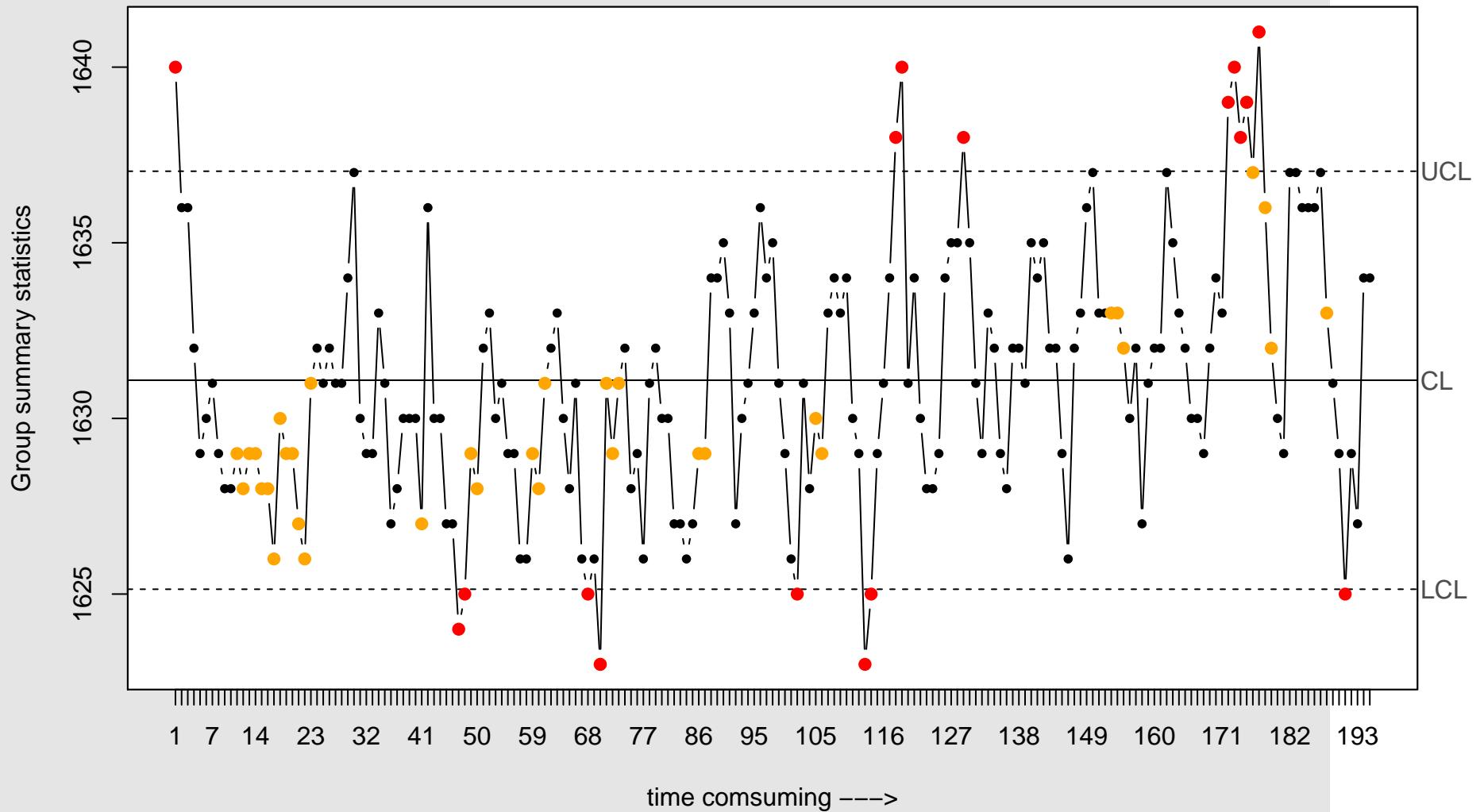
LCL = 1625.18

UCL = 1637.271

Number beyond limits = 17

Number violating runs = 26

146th column point of this product



Number of groups = 195

Center = 1631.087

StdDev = 1.983257

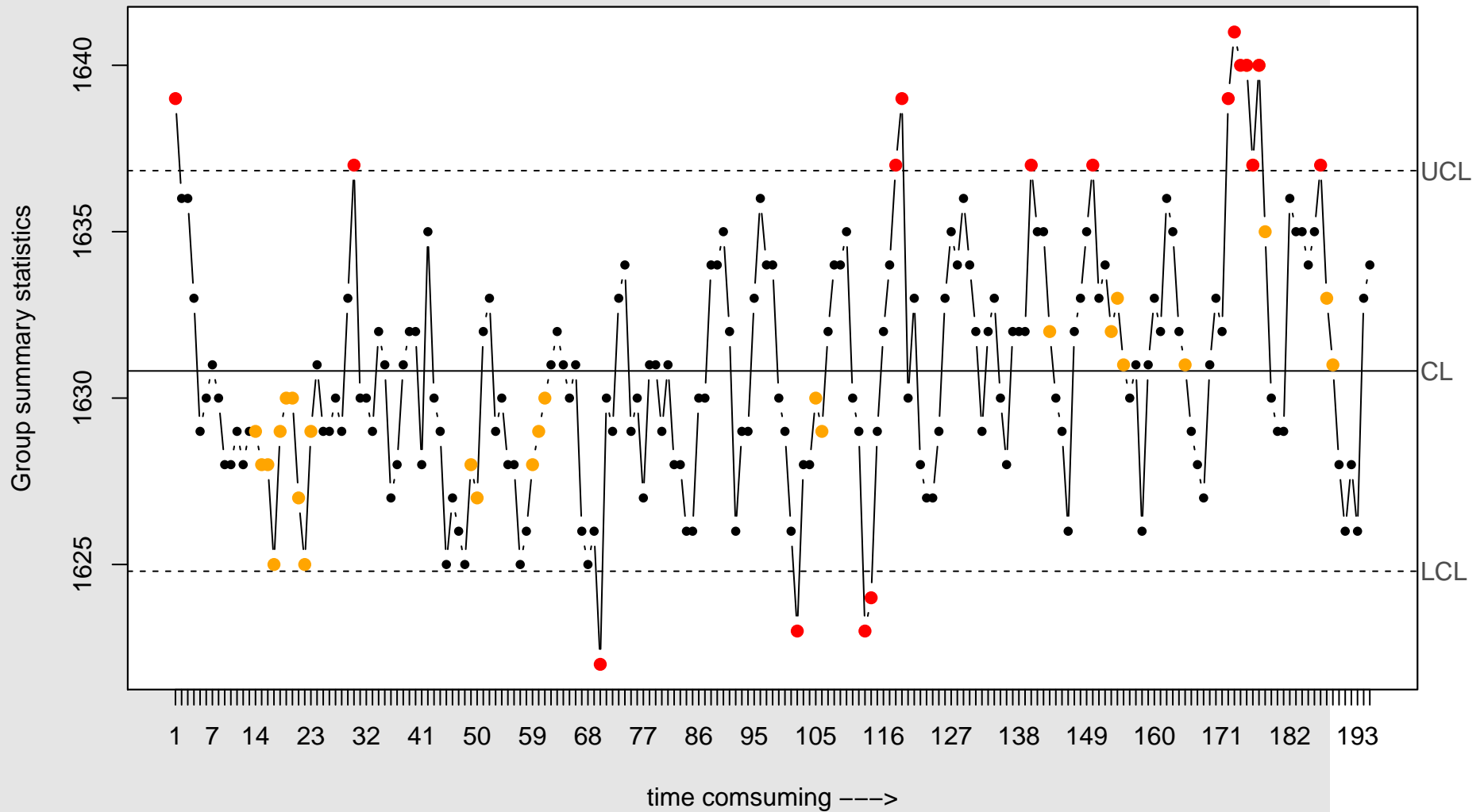
LCL = 1625.137

UCL = 1637.037

Number beyond limits = 17

Number violating runs = 36

147th column point of this product

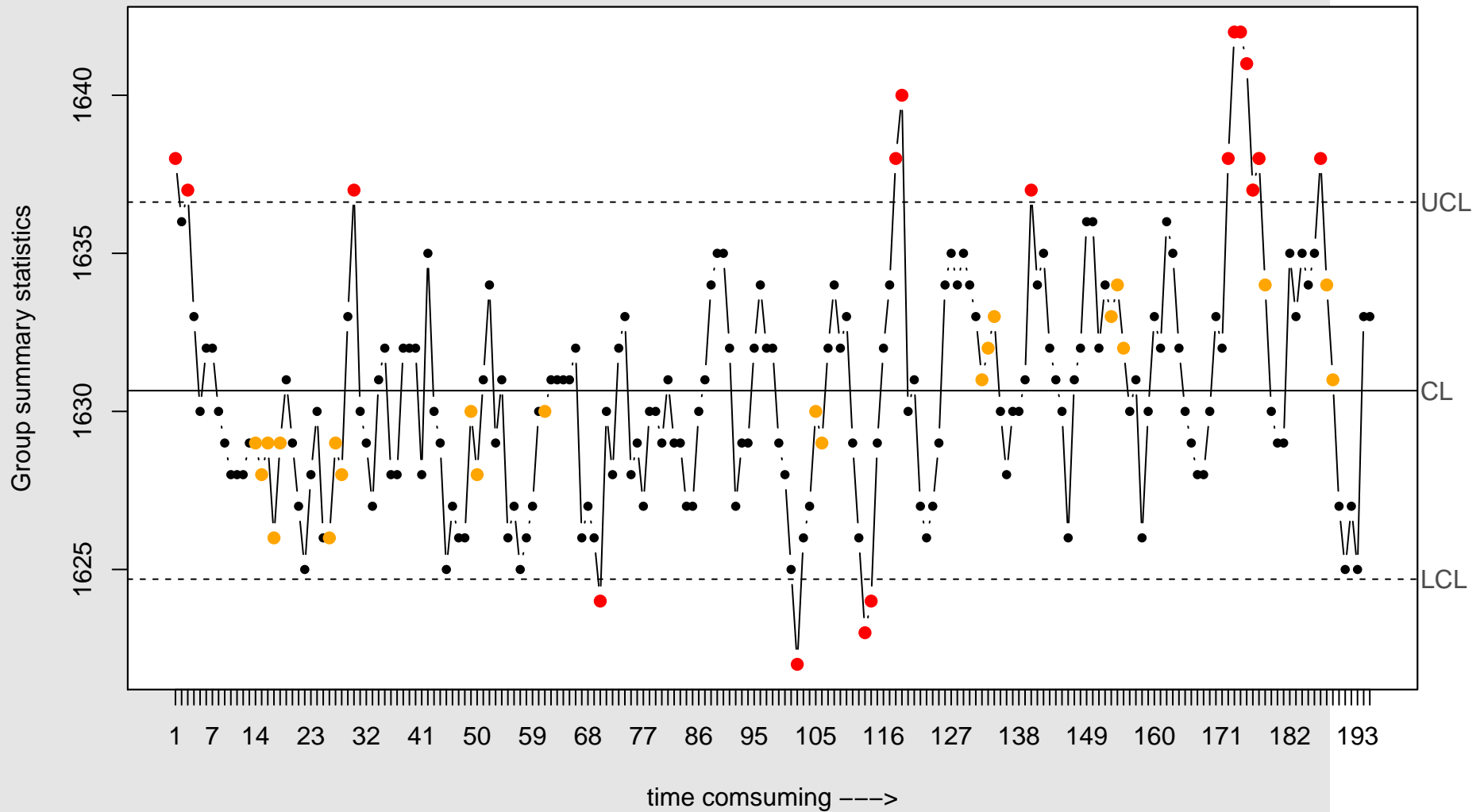


Number of groups = 195
Center = 1630.815
StdDev = 2.006105

LCL = 1624.797
UCL = 1636.834

Number beyond limits = 17
Number violating runs = 28

148th column point of this product



Number of groups = 195

Center = 1630.656

StdDev = 1.987826

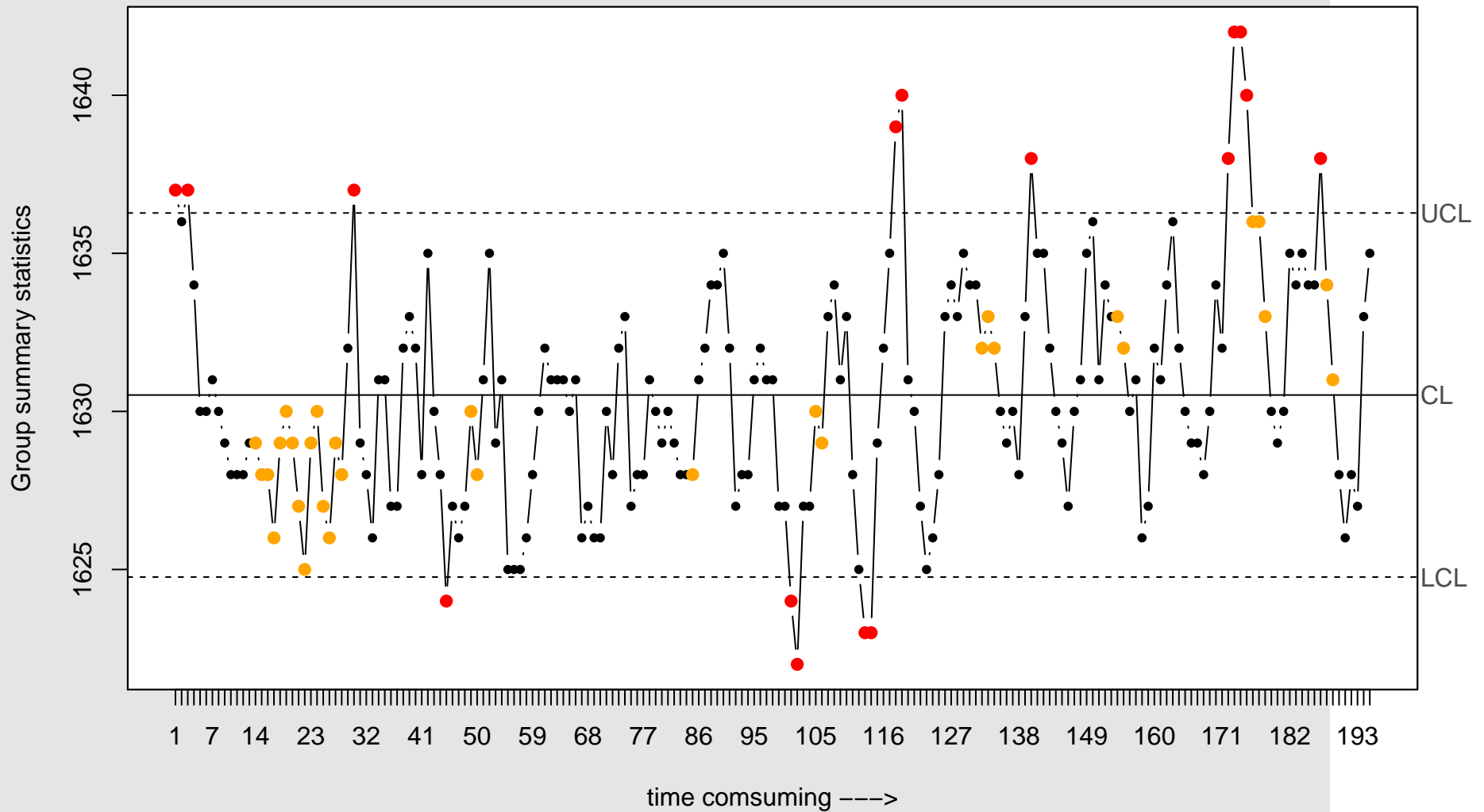
LCL = 1624.693

UCL = 1636.62

Number beyond limits = 17

Number violating runs = 24

149th column point of this product

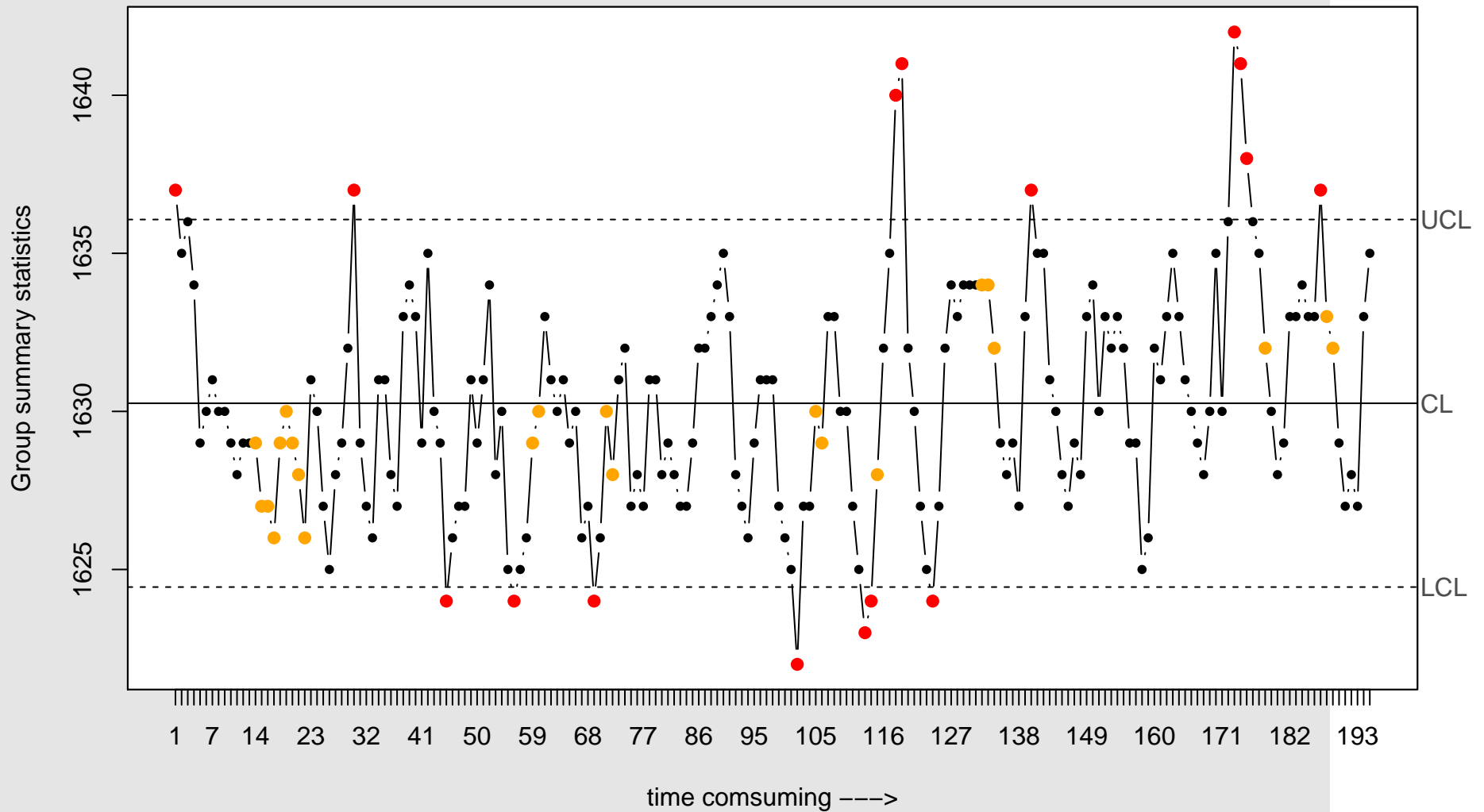


Number of groups = 195
Center = 1630.518
StdDev = 1.919281

LCL = 1624.76
UCL = 1636.276

Number beyond limits = 16
Number violating runs = 30

150th column point of this product



Number of groups = 195

Center = 1630.256

StdDev = 1.937559

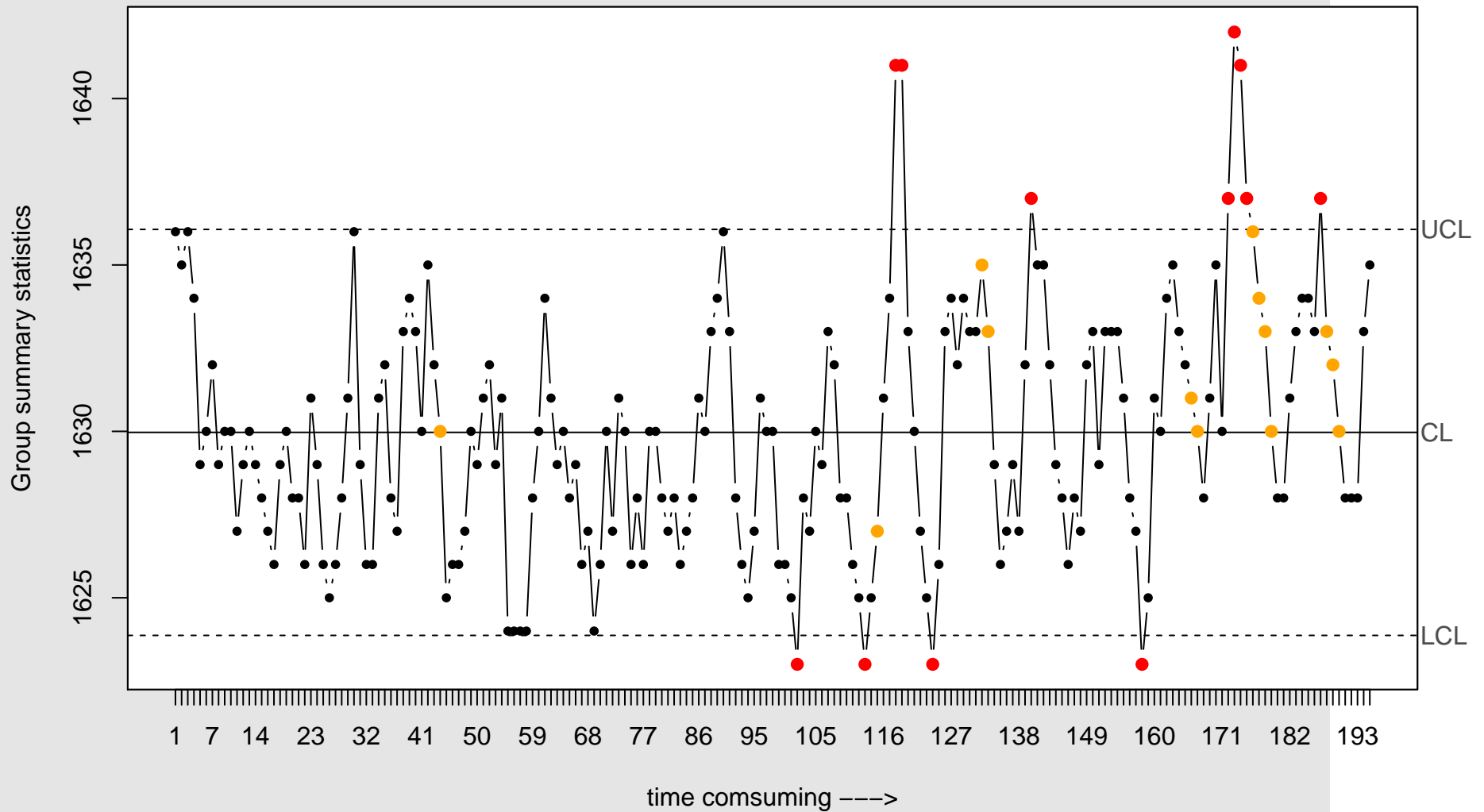
LCL = 1624.444

UCL = 1636.069

Number beyond limits = 16

Number violating runs = 22

151th column point of this product



Number of groups = 195

Center = 1629.969

StdDev = 2.033523

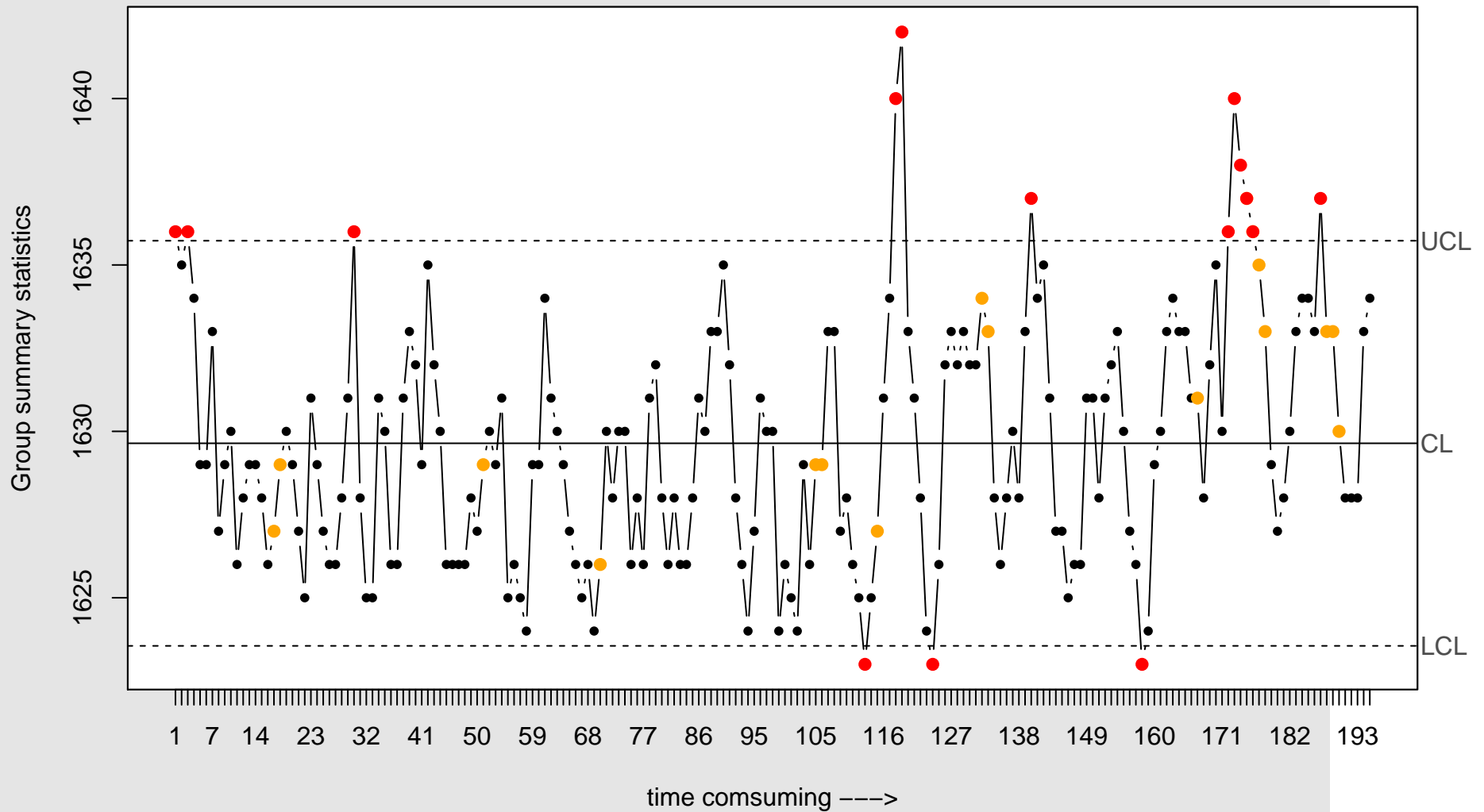
LCL = 1623.869

UCL = 1636.07

Number beyond limits = 12

Number violating runs = 14

152th column point of this product



Number of groups = 195

Center = 1629.641

StdDev = 2.028954

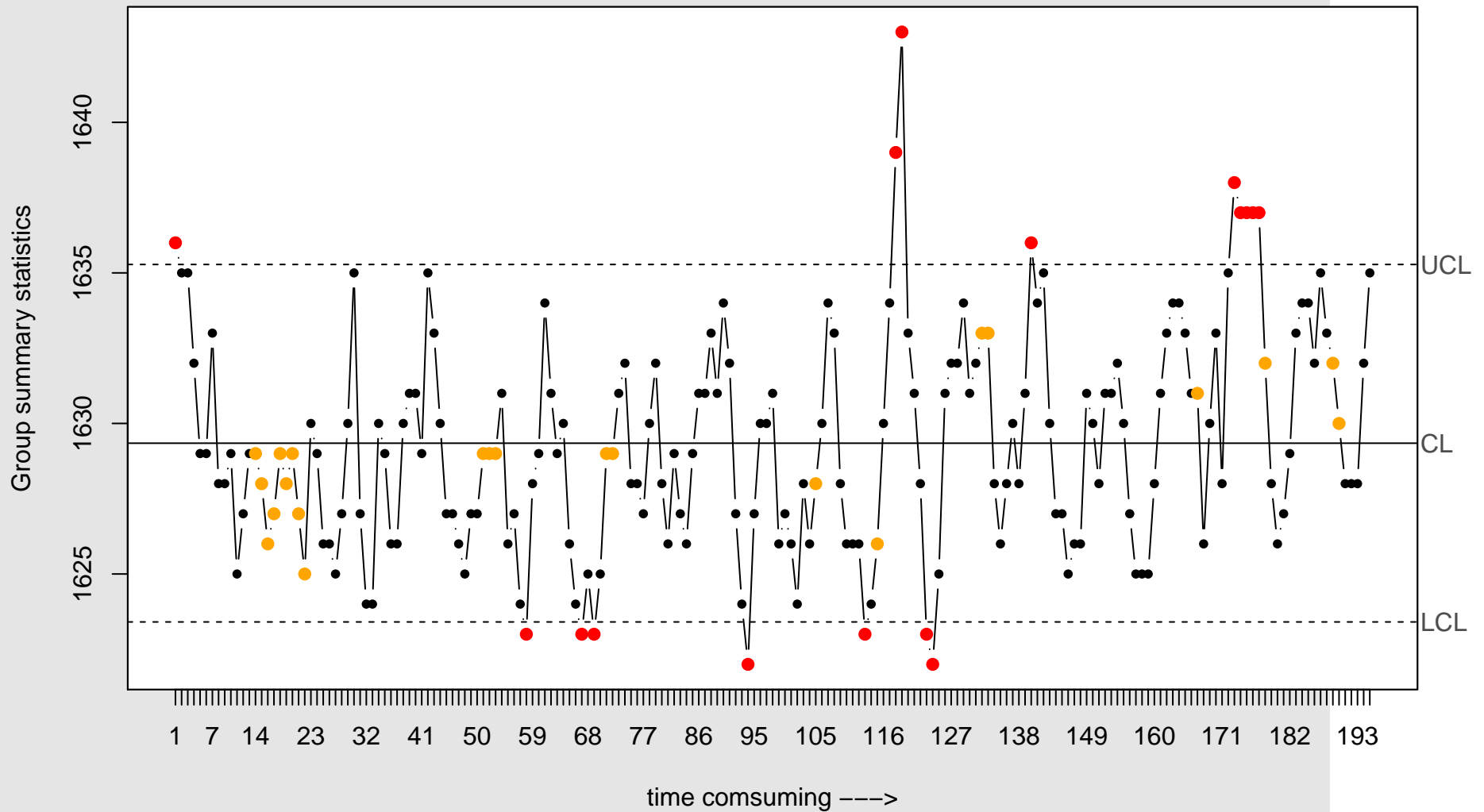
LCL = 1623.554

UCL = 1635.728

Number beyond limits = 15

Number violating runs = 17

153th column point of this product



Number of groups = 195

Center = 1629.344

StdDev = 1.978687

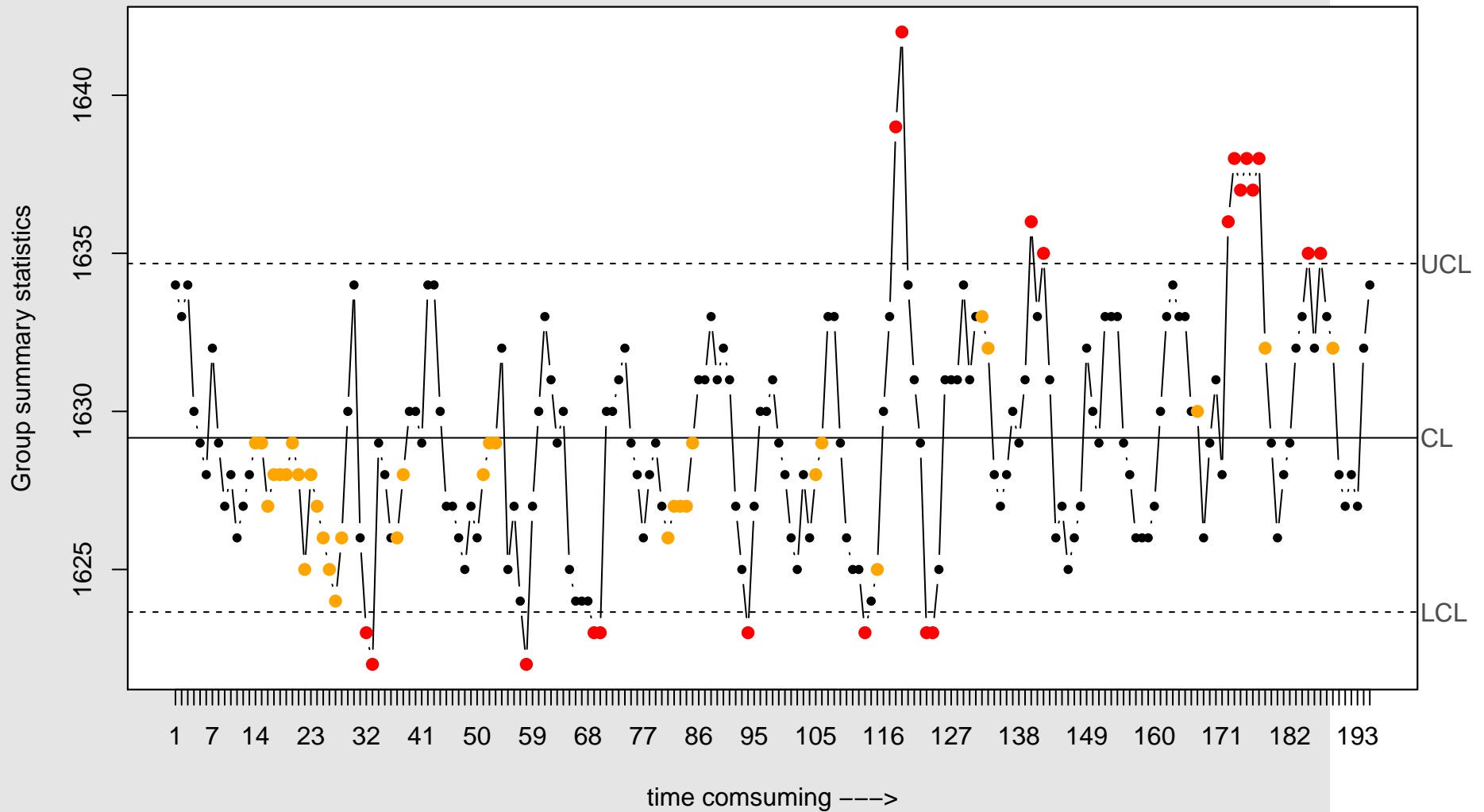
LCL = 1623.408

UCL = 1635.28

Number beyond limits = 16

Number violating runs = 22

154th column point of this product

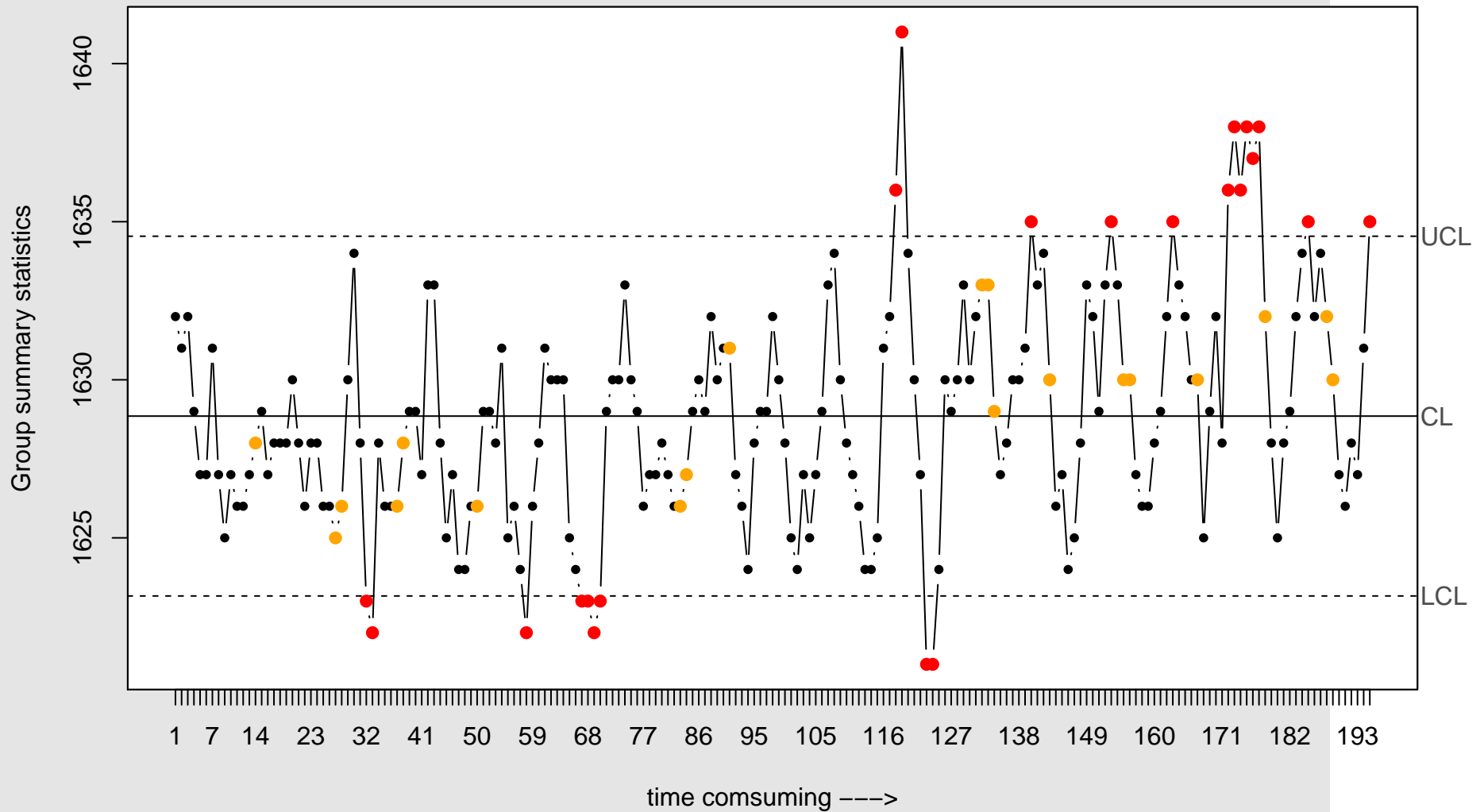


Number of groups = 195
Center = 1629.164
StdDev = 1.837026

LCL = 1623.653
UCL = 1634.675

Number beyond limits = 21
Number violating runs = 33

155th column point of this product



Number of groups = 195

Center = 1628.851

StdDev = 1.896432

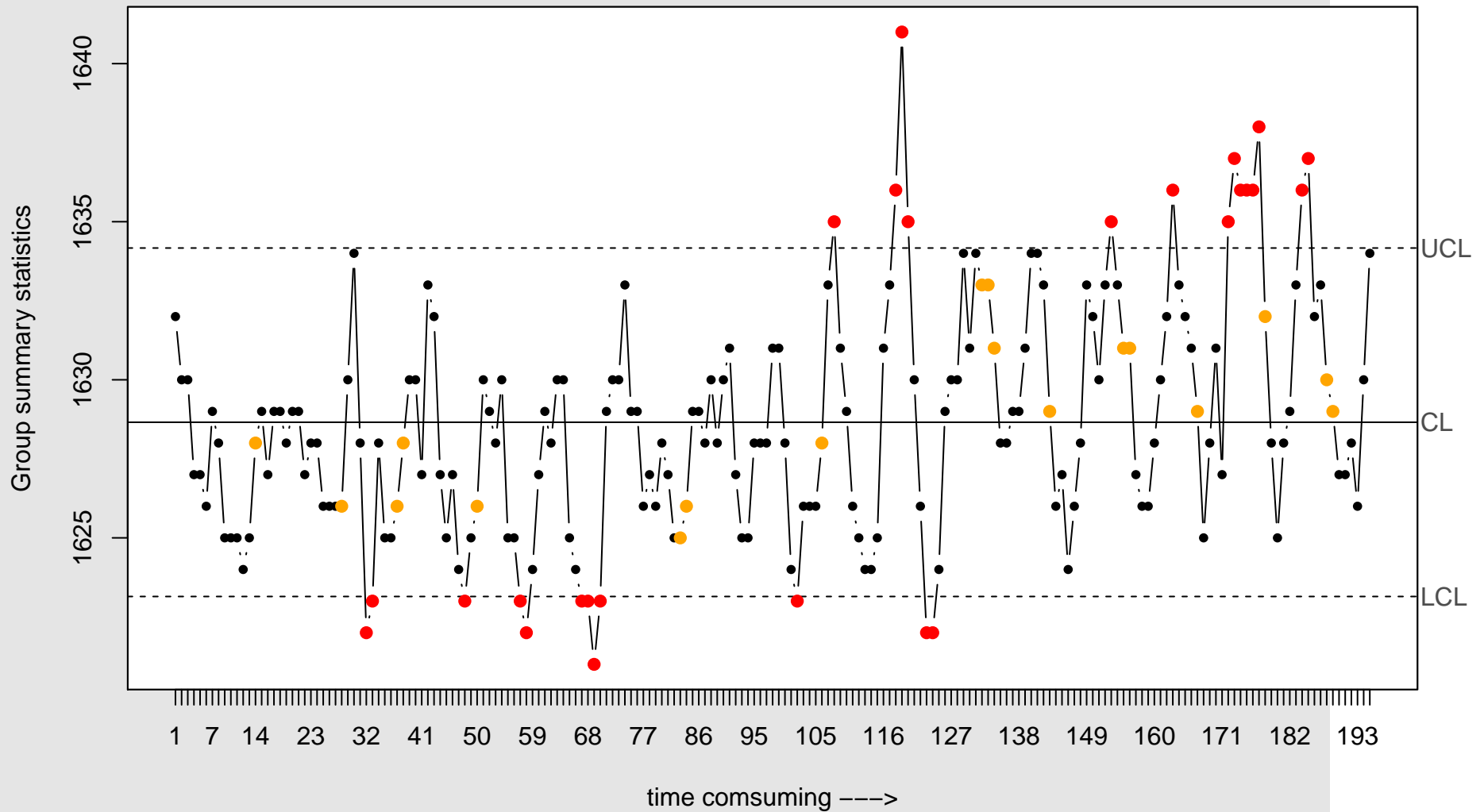
LCL = 1623.162

UCL = 1634.541

Number beyond limits = 22

Number violating runs = 19

156th column point of this product



Number of groups = 195

Center = 1628.656

StdDev = 1.837026

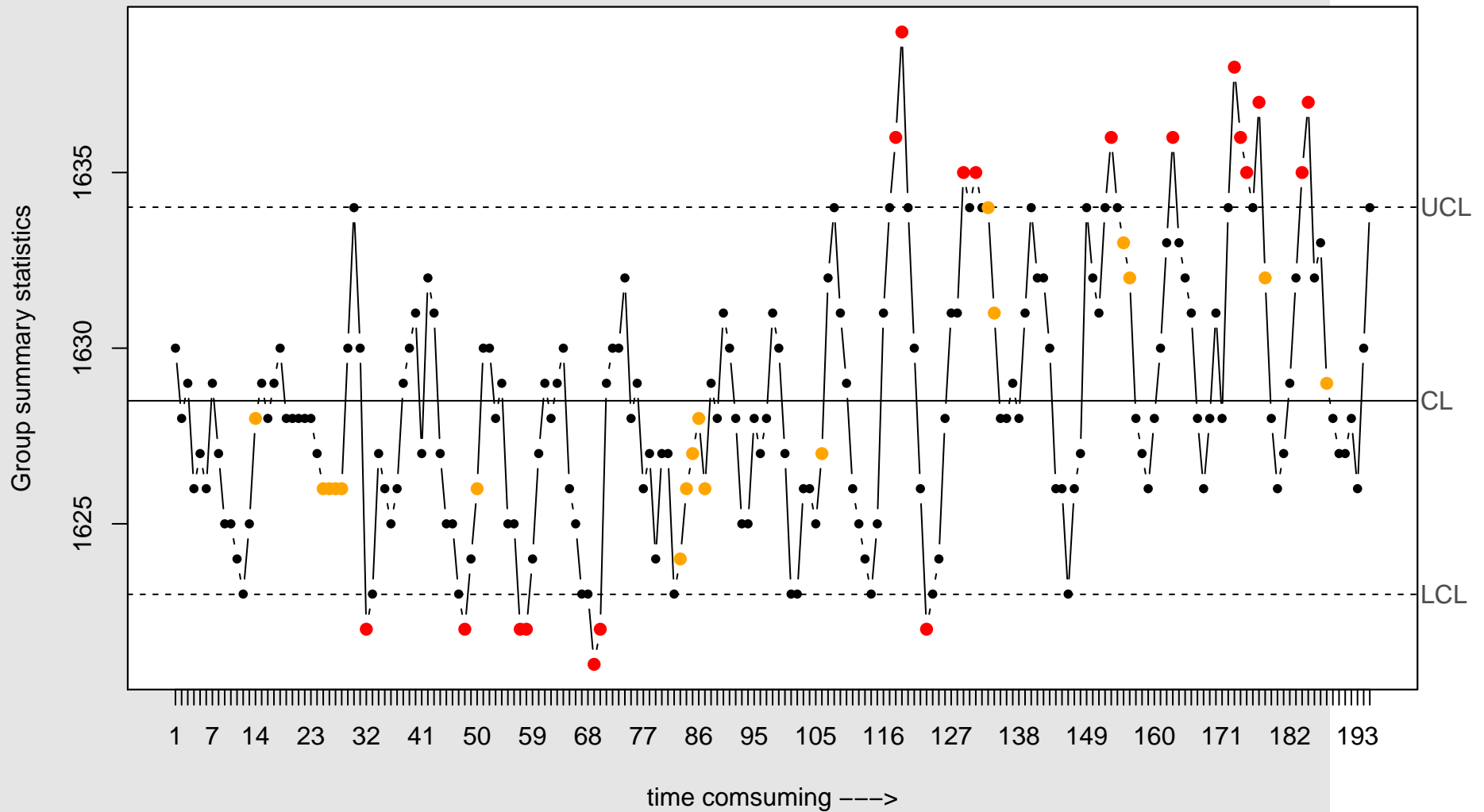
LCL = 1623.145

UCL = 1634.167

Number beyond limits = 26

Number violating runs = 18

157th column point of this product



Number of groups = 195

Center = 1628.503

StdDev = 1.837026

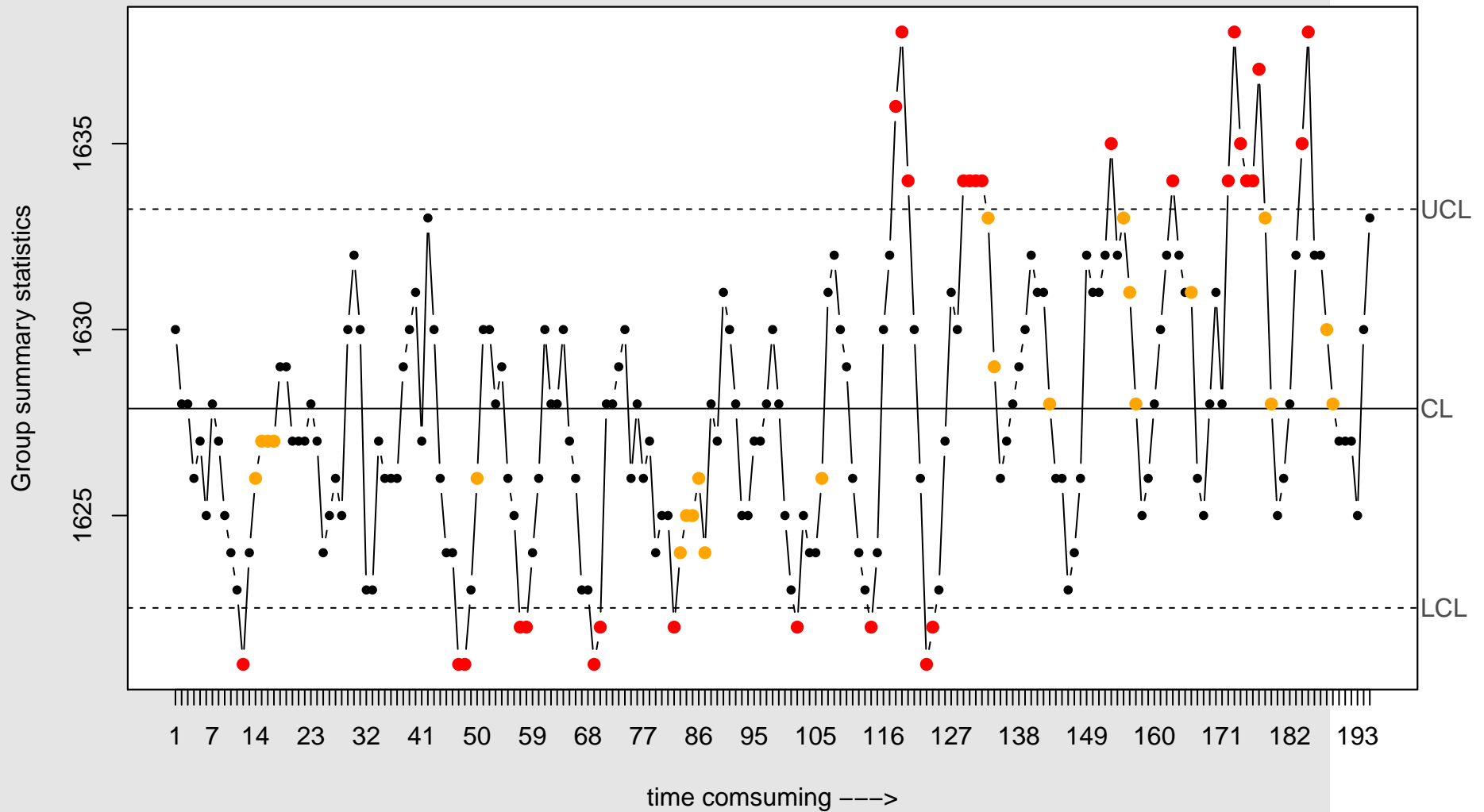
LCL = 1622.991

UCL = 1634.014

Number beyond limits = 19

Number violating runs = 18

158th column point of this product



Number of groups = 195

Center = 1627.877

StdDev = 1.786759

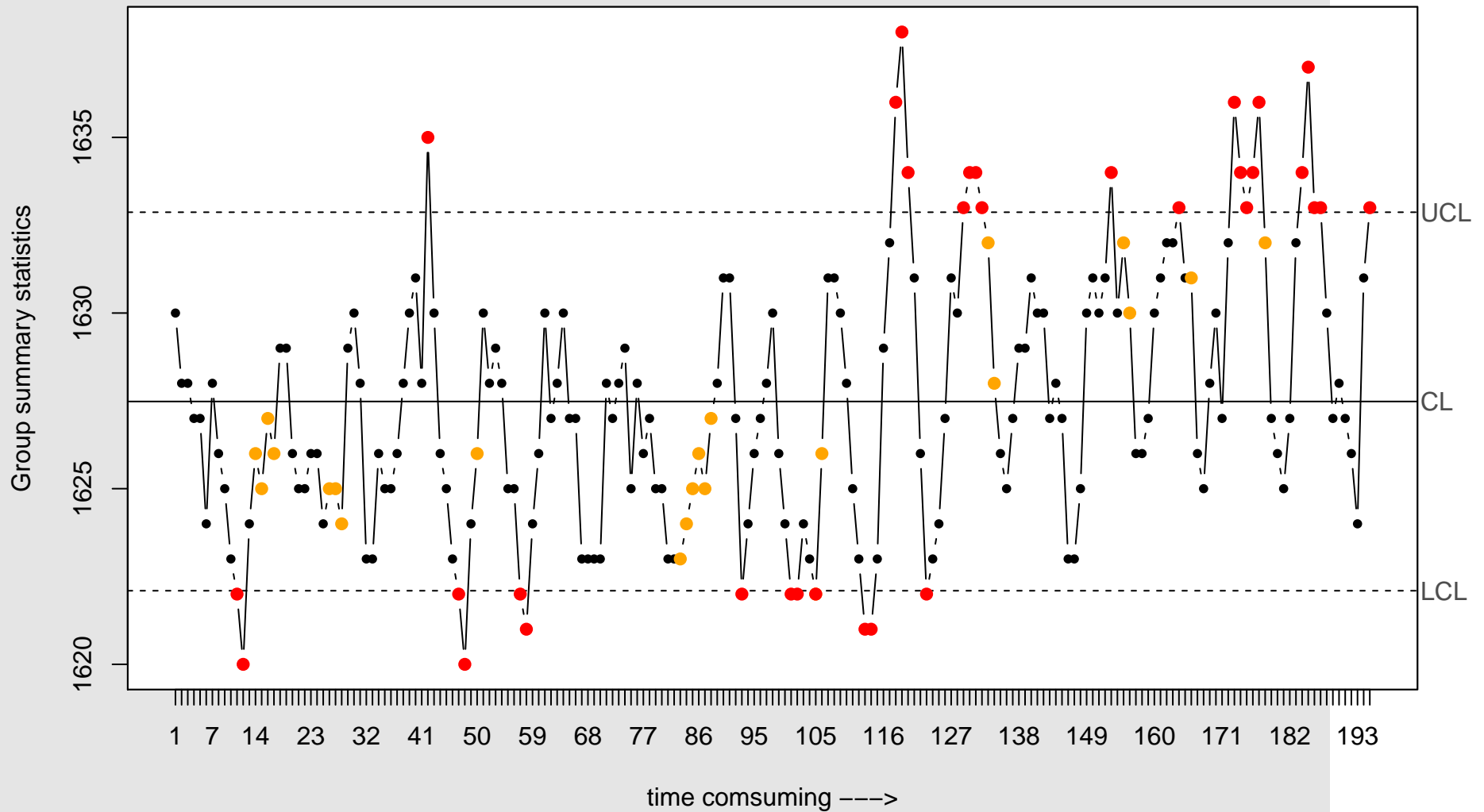
LCL = 1622.517

UCL = 1633.237

Number beyond limits = 29

Number violating runs = 25

159th column point of this product

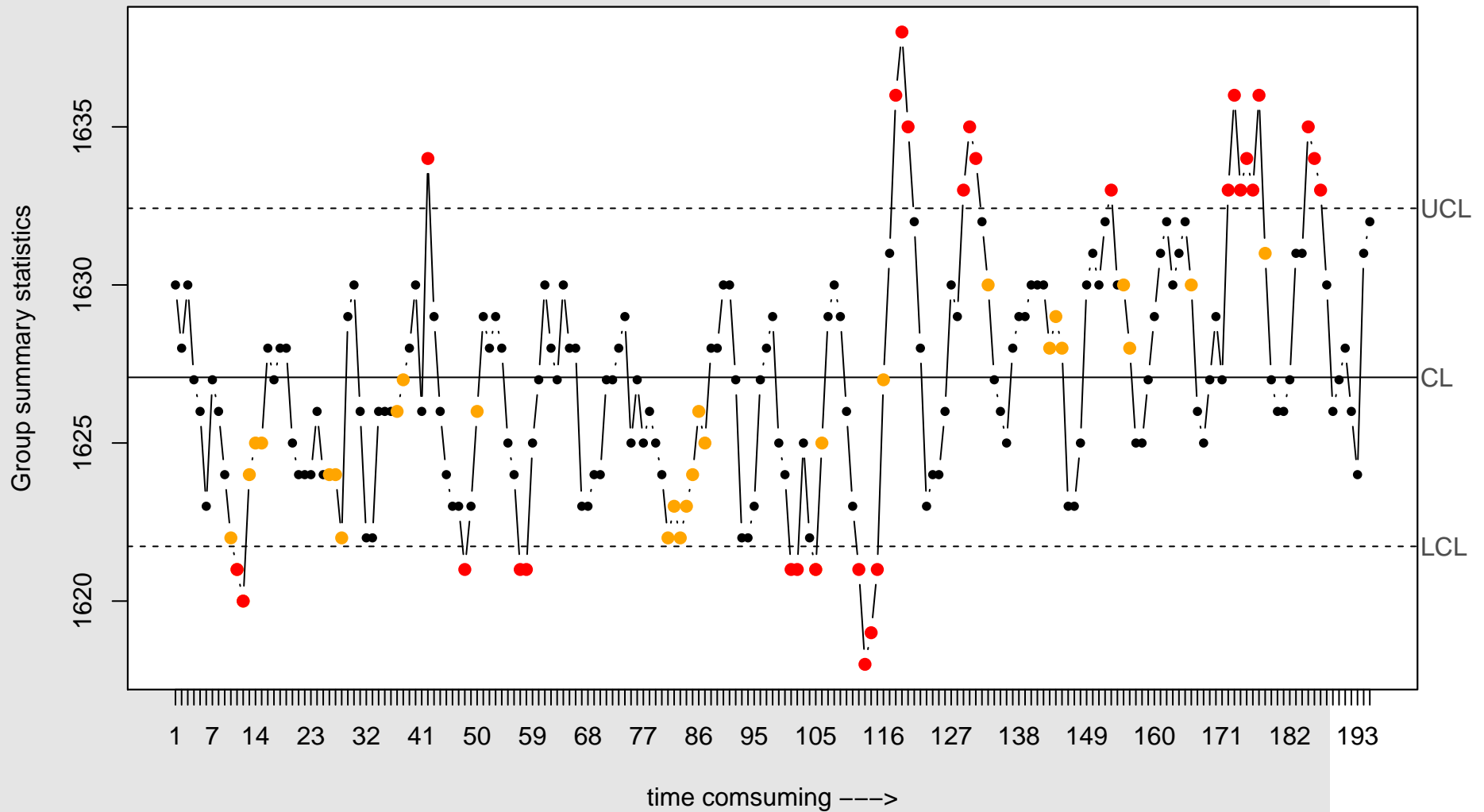


Number of groups = 195
Center = 1627.482
StdDev = 1.795898

LCL = 1622.094
UCL = 1632.87

Number beyond limits = 33
Number violating runs = 22

160th column point of this product



Number of groups = 195

Center = 1627.077

StdDev = 1.782189

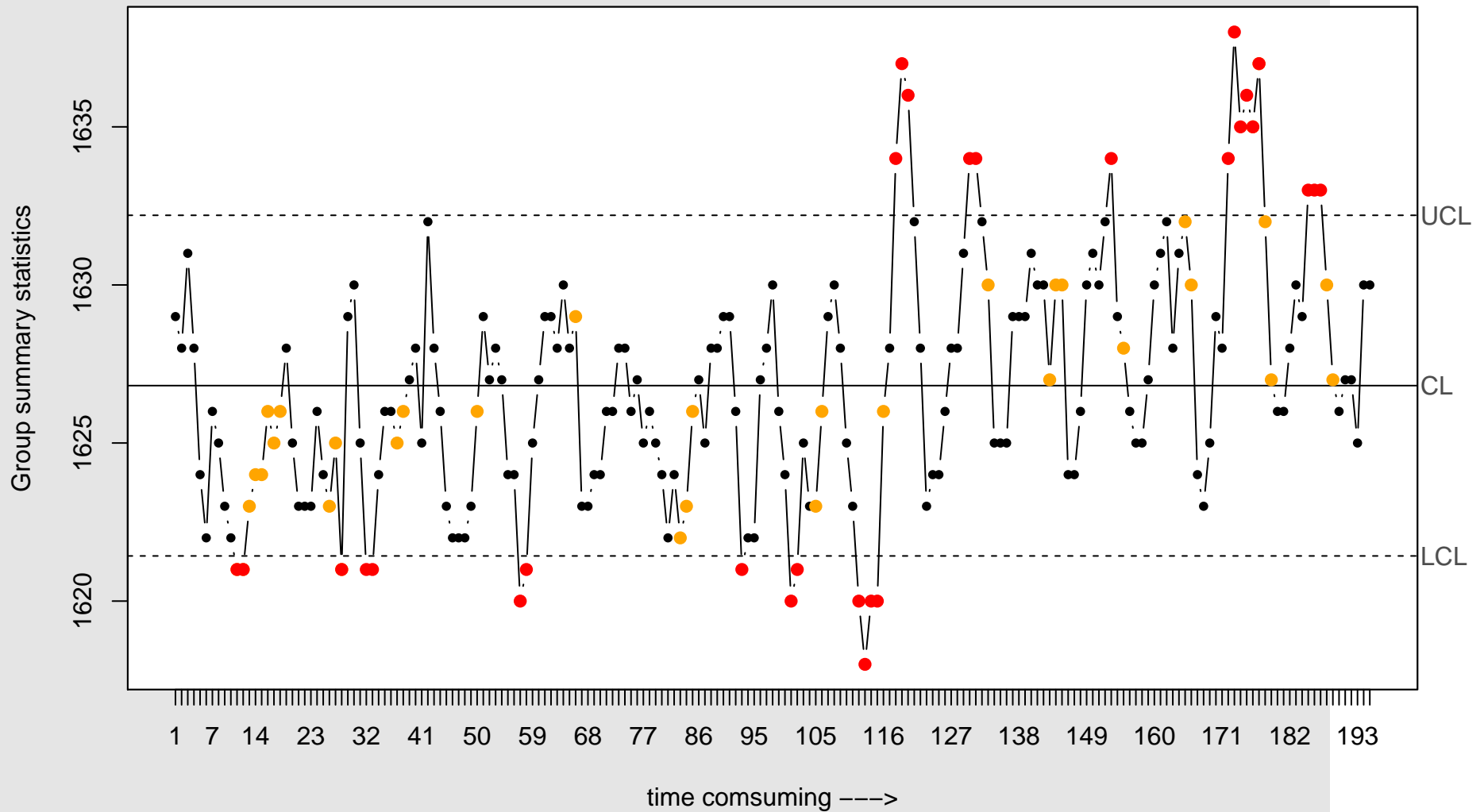
LCL = 1621.73

UCL = 1632.423

Number beyond limits = 29

Number violating runs = 30

161th column point of this product



Number of groups = 195

Center = 1626.815

StdDev = 1.795898

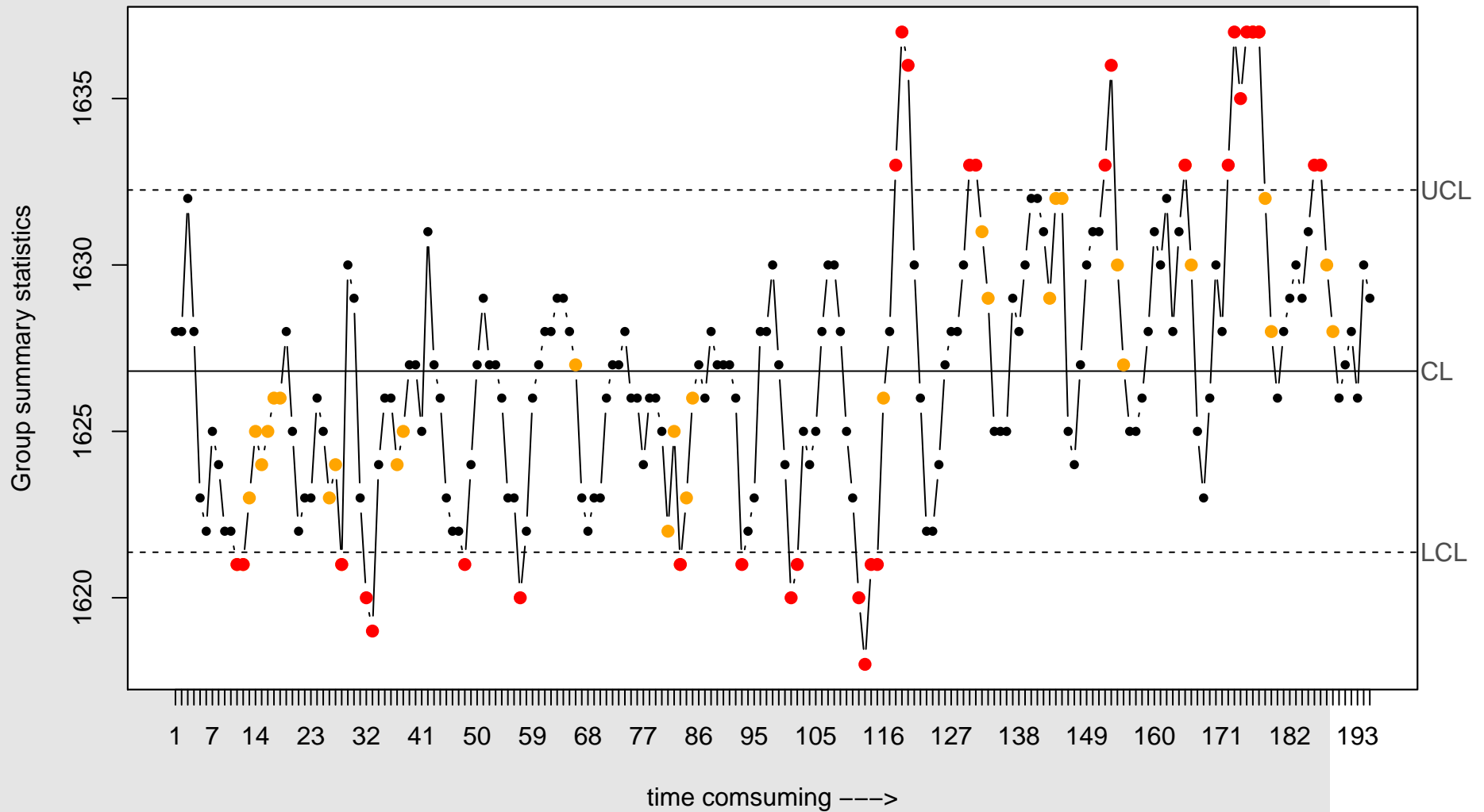
LCL = 1621.428

UCL = 1632.203

Number beyond limits = 29

Number violating runs = 34

162th column point of this product



Number of groups = 195

Center = 1626.81

StdDev = 1.814177

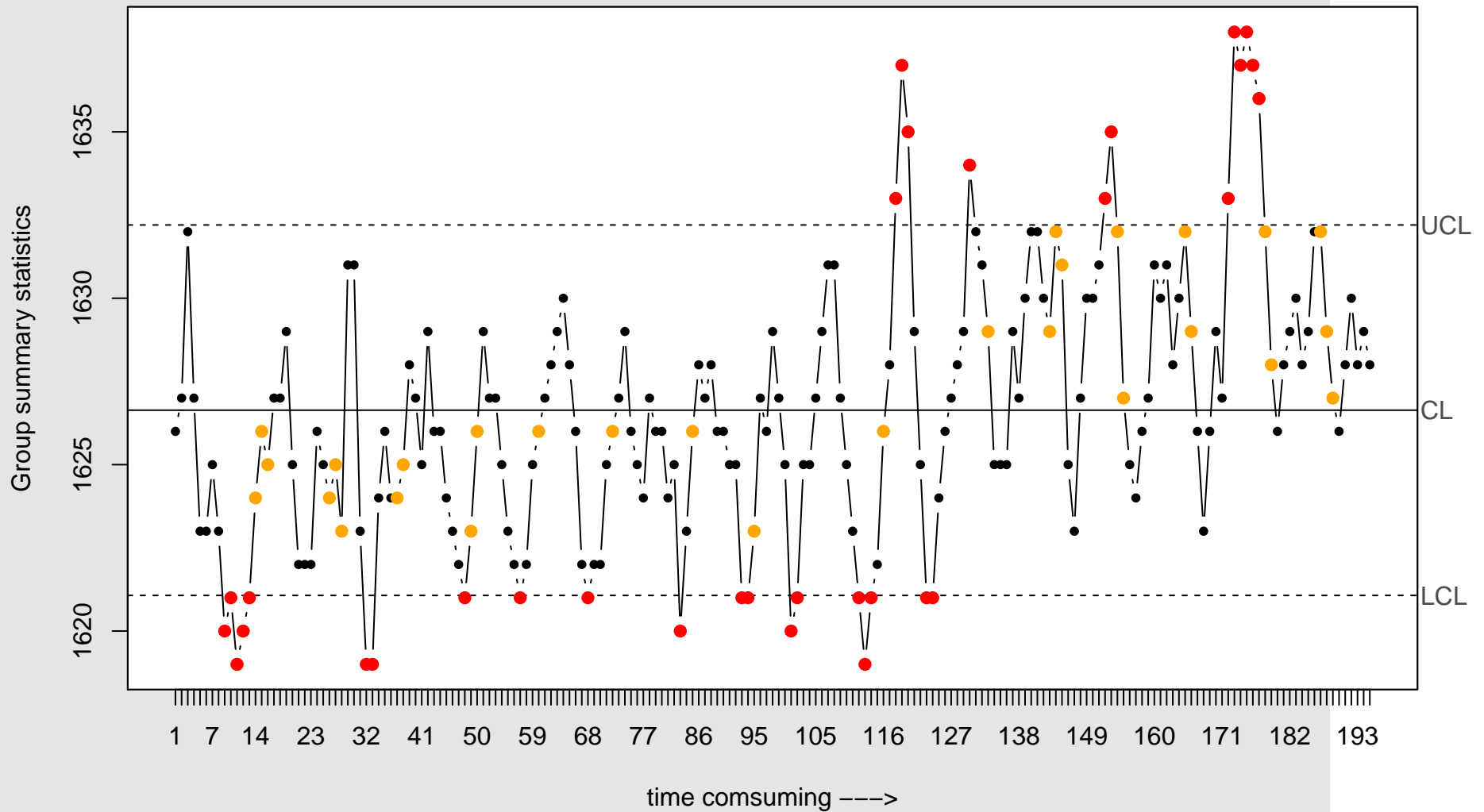
LCL = 1621.368

UCL = 1632.253

Number beyond limits = 31

Number violating runs = 36

163th column point of this product



Number of groups = 195

Center = 1626.636

StdDev = 1.855305

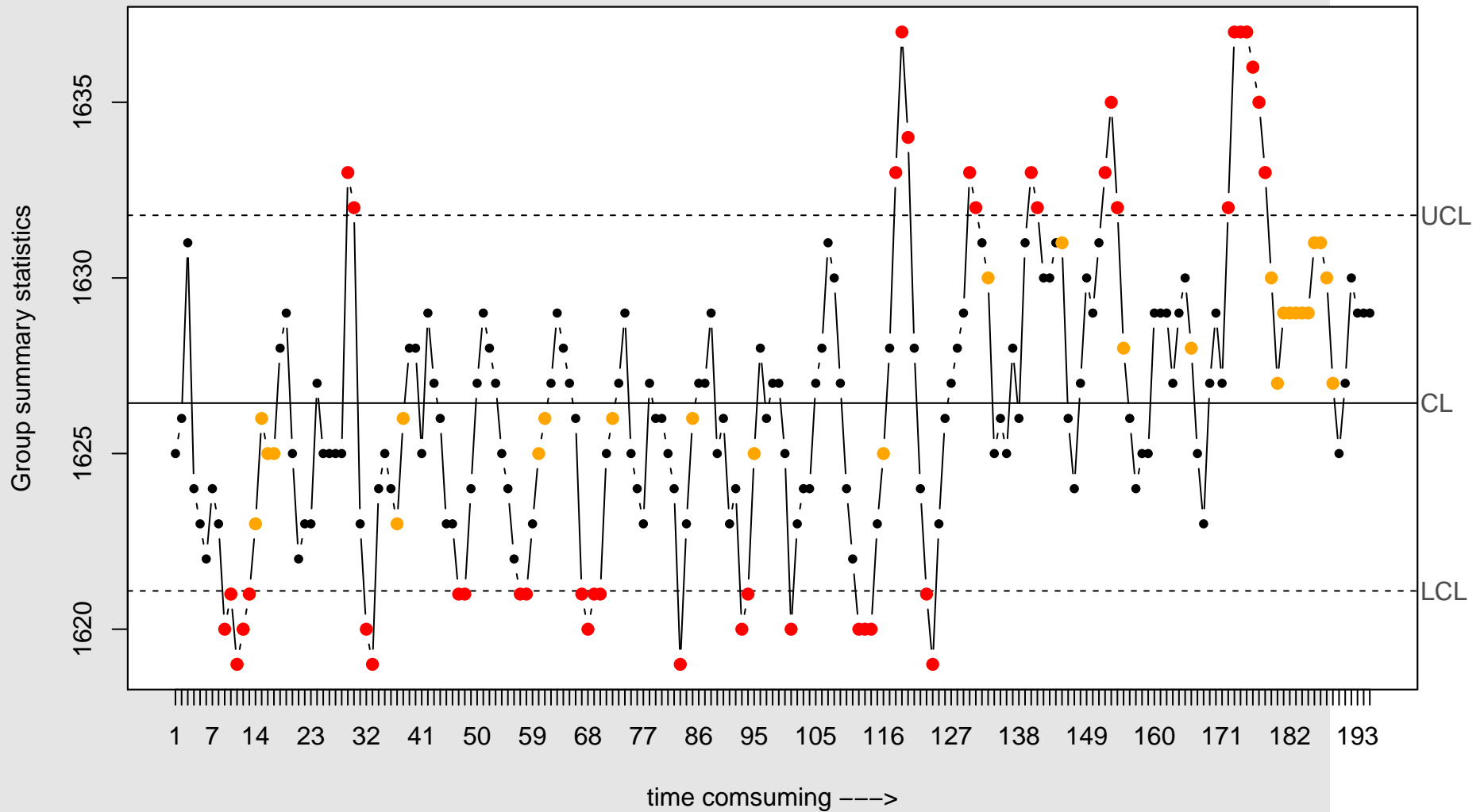
LCL = 1621.07

UCL = 1632.202

Number beyond limits = 32

Number violating runs = 33

164th column point of this product



Number of groups = 195

Center = 1626.436

StdDev = 1.782189

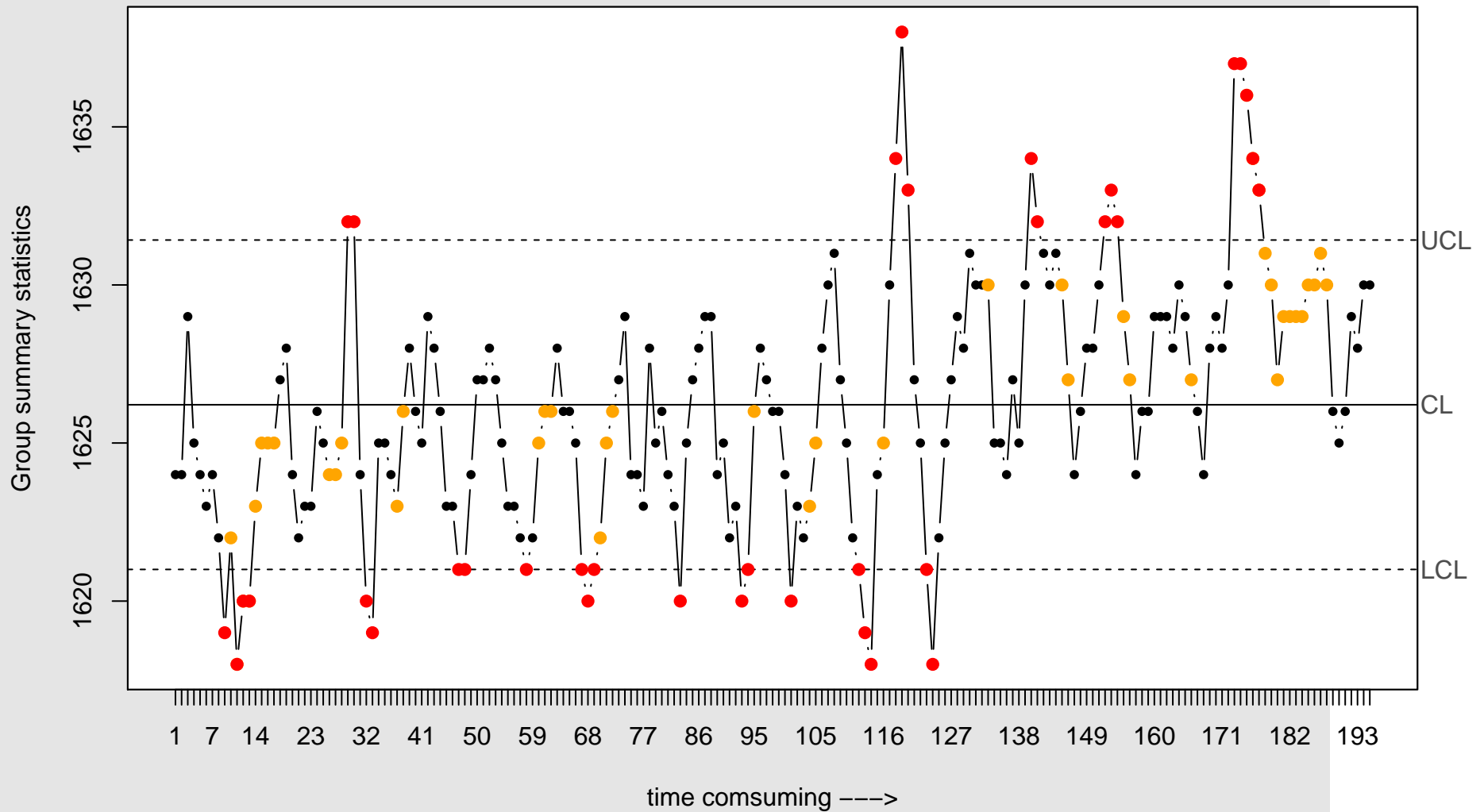
LCL = 1621.089

UCL = 1631.782

Number beyond limits = 43

Number violating runs = 36

165th column point of this product



Number of groups = 195

Center = 1626.21

StdDev = 1.736492

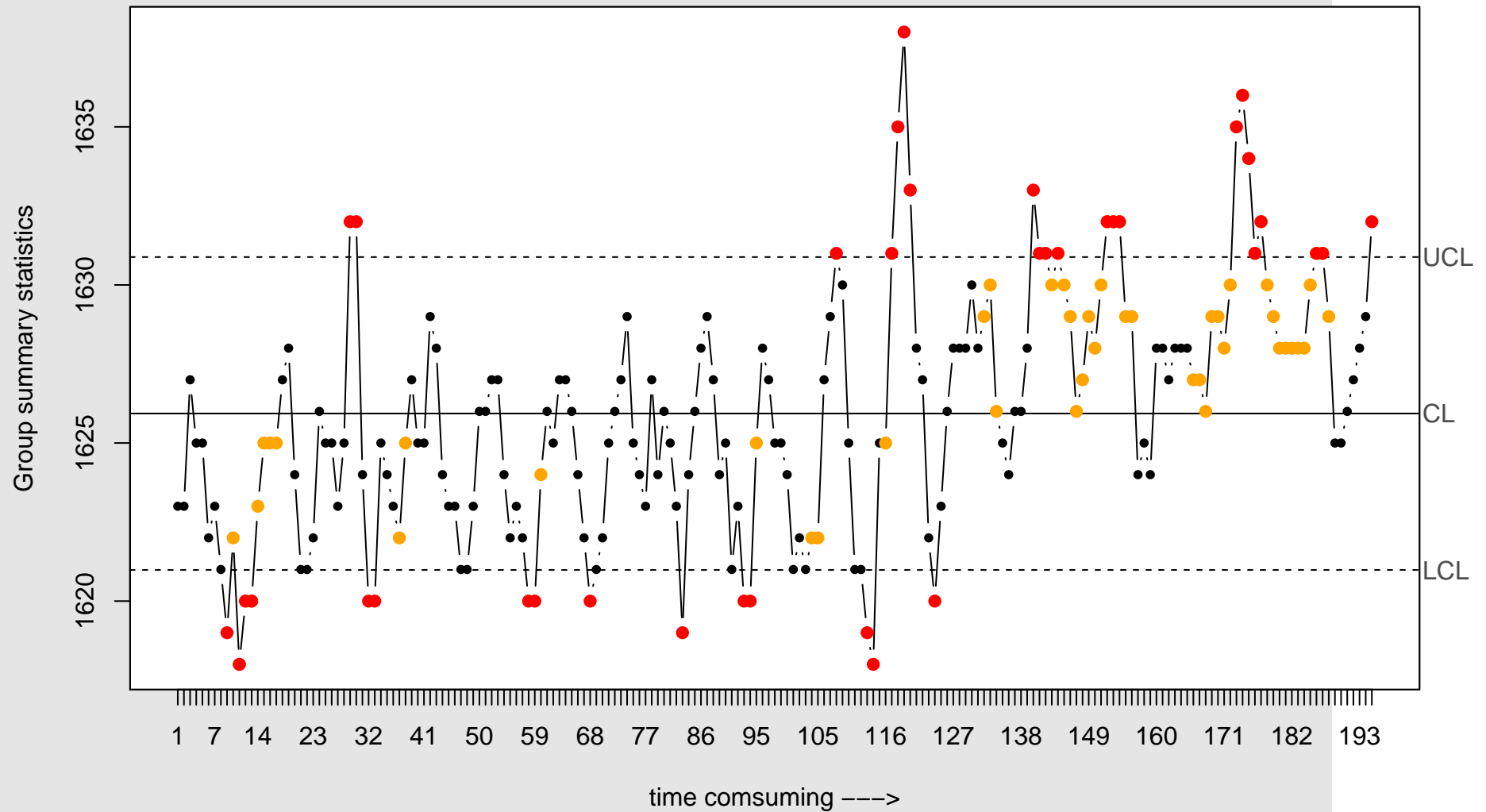
LCL = 1621.001

UCL = 1631.42

Number beyond limits = 36

Number violating runs = 43

166th column point of this product



Number of groups = 195

Center = 1625.933

StdDev = 1.649667

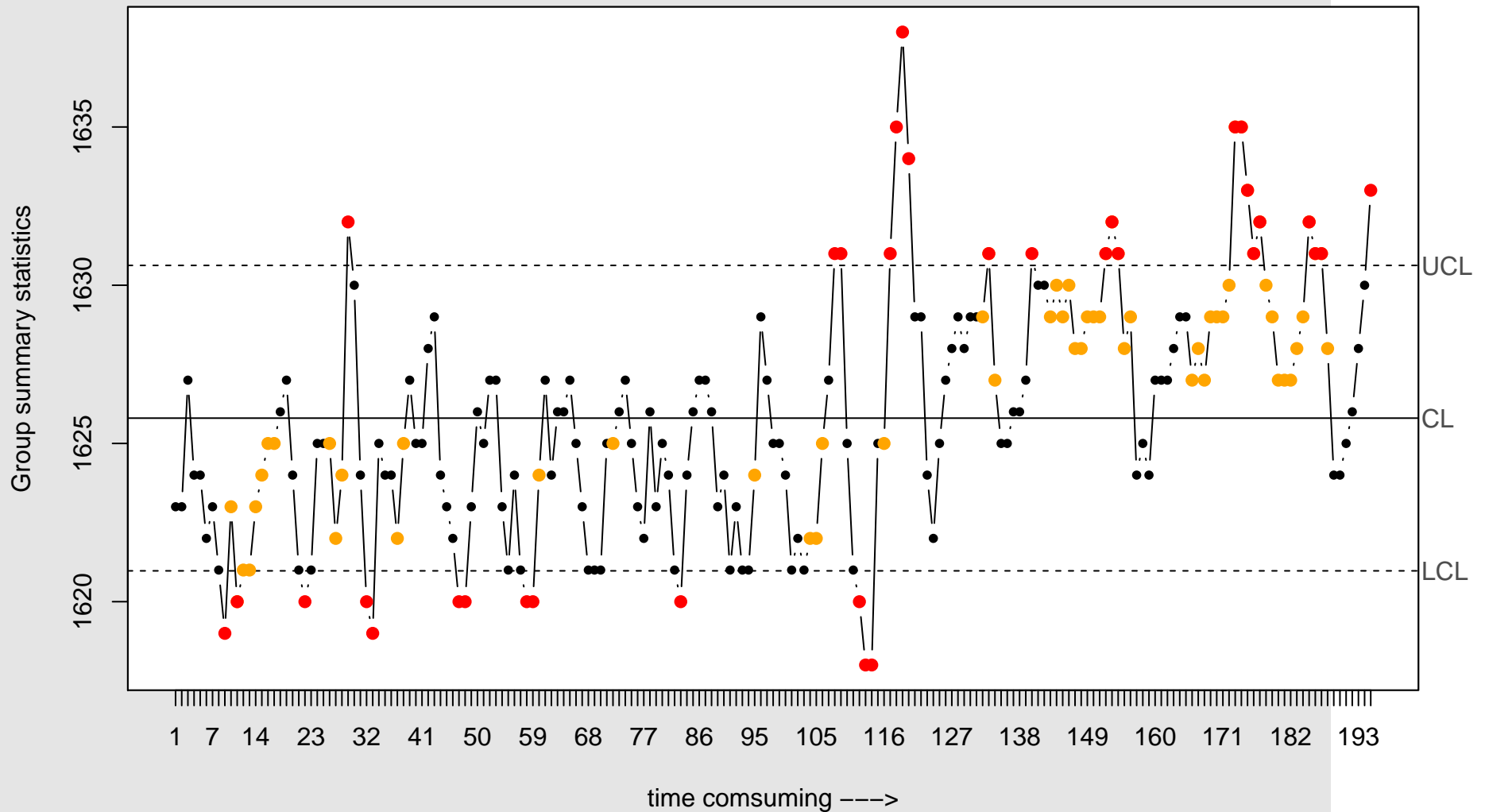
LCL = 1620.984

UCL = 1630.882

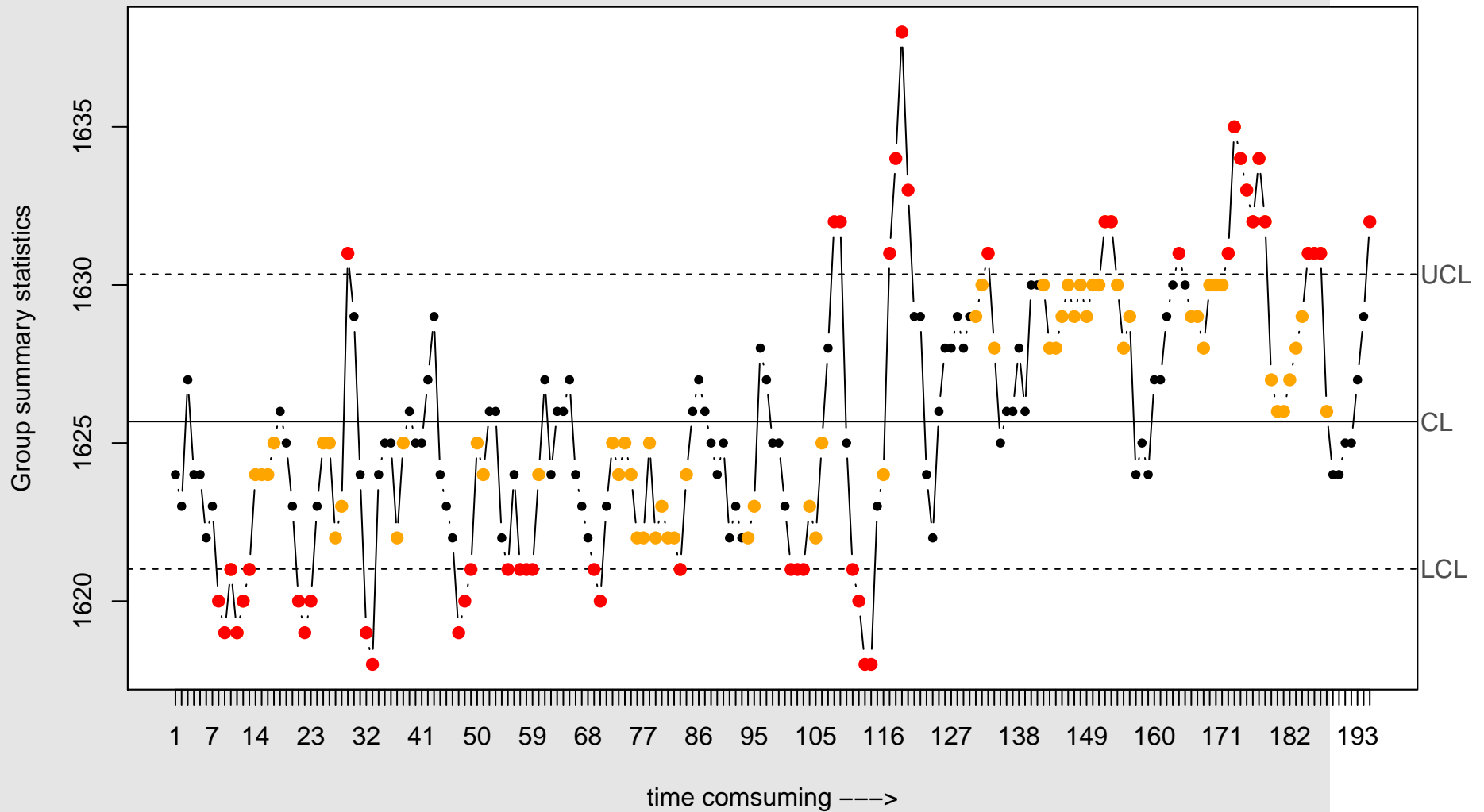
Number beyond limits = 37

Number violating runs = 55

167th column point of this product



168th column point of this product



Number of groups = 195

Center = 1625.677

StdDev = 1.553703

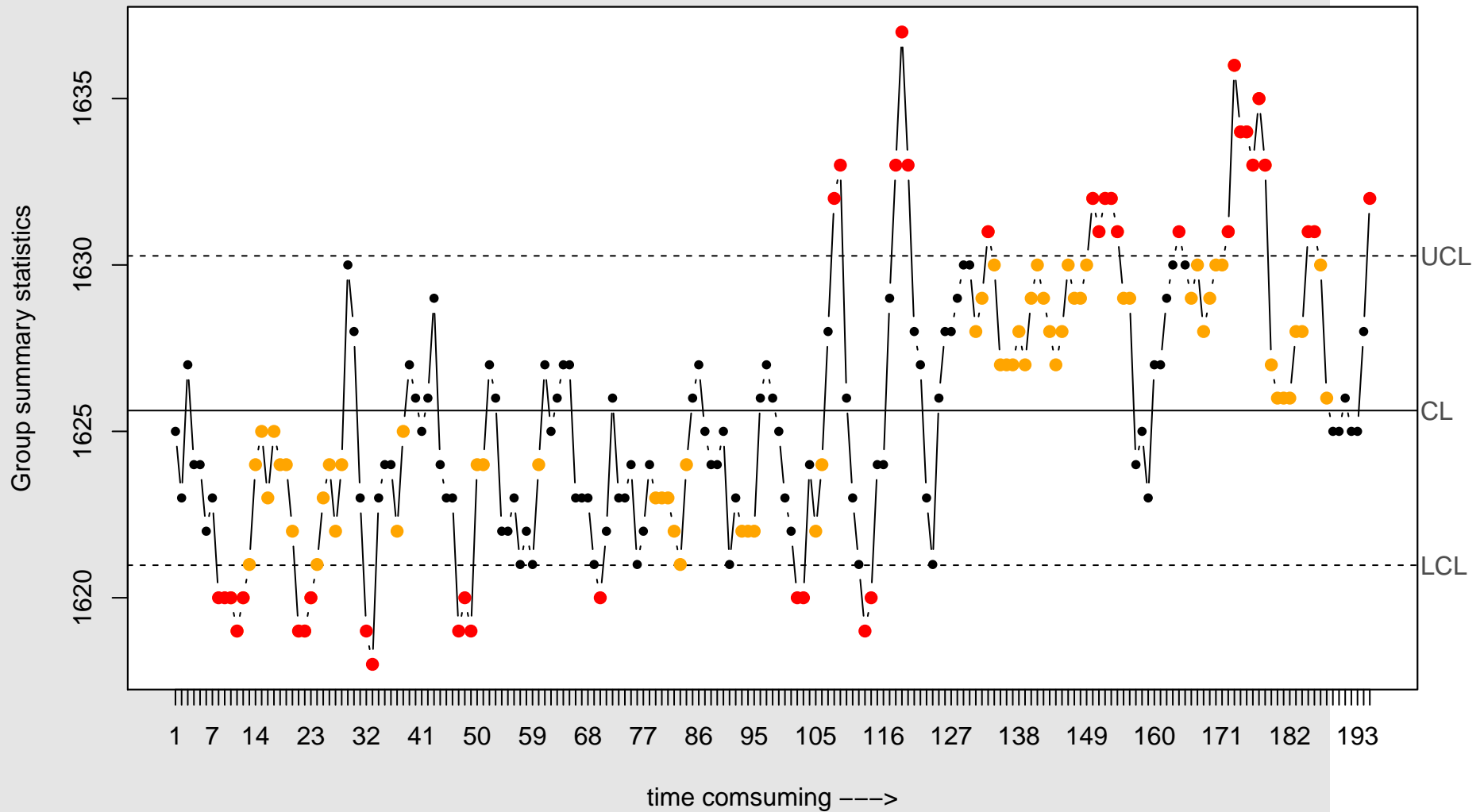
LCL = 1621.016

UCL = 1630.338

Number beyond limits = 50

Number violating runs = 78

169th column point of this product



Number of groups = 195

Center = 1625.626

StdDev = 1.549134

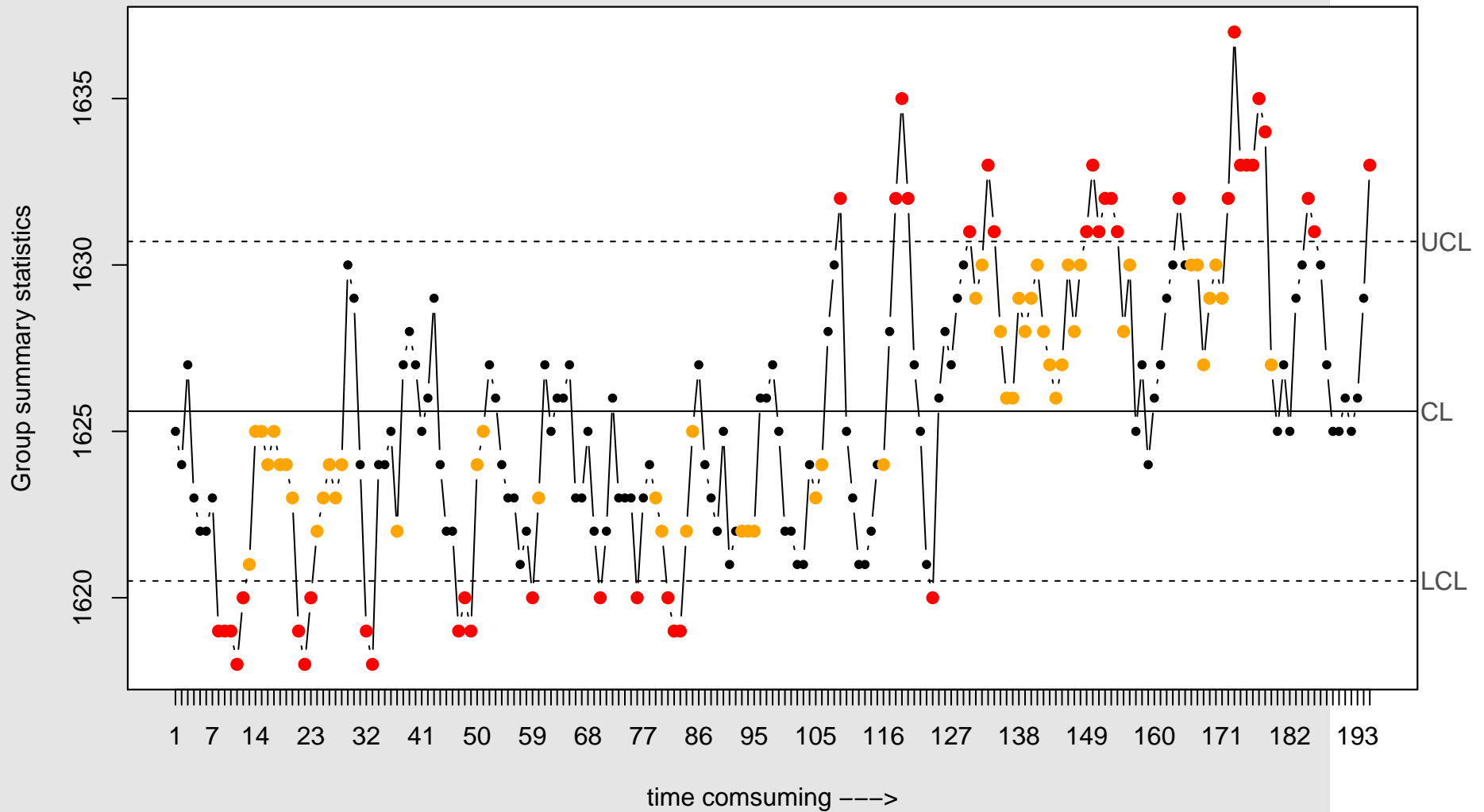
LCL = 1620.978

UCL = 1630.273

Number beyond limits = 40

Number violating runs = 84

170th column point of this product



Number of groups = 195

Center = 1625.605

StdDev = 1.699934

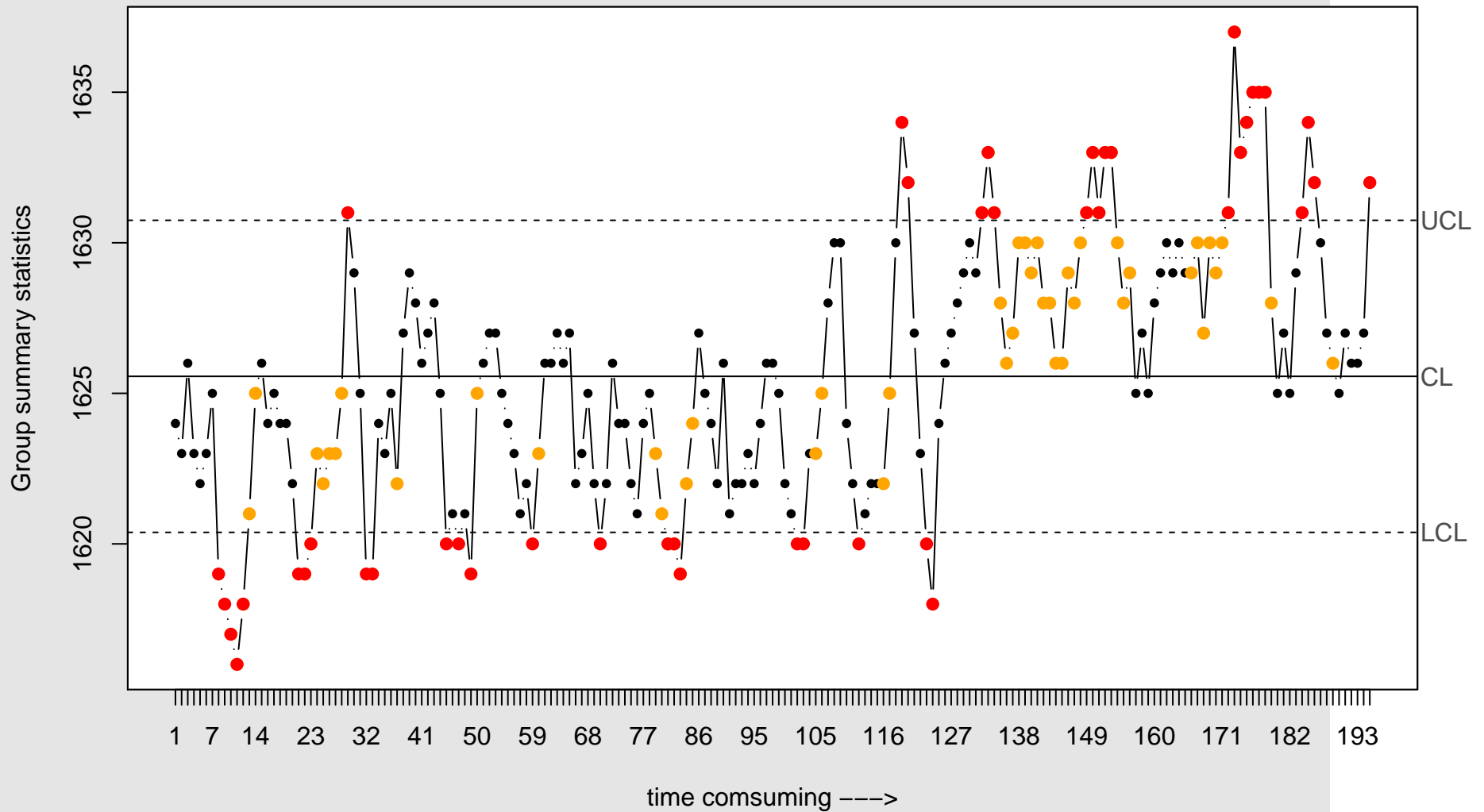
LCL = 1620.505

UCL = 1630.705

Number beyond limits = 44

Number violating runs = 76

171th column point of this product



Number of groups = 195

Center = 1625.564

StdDev = 1.727352

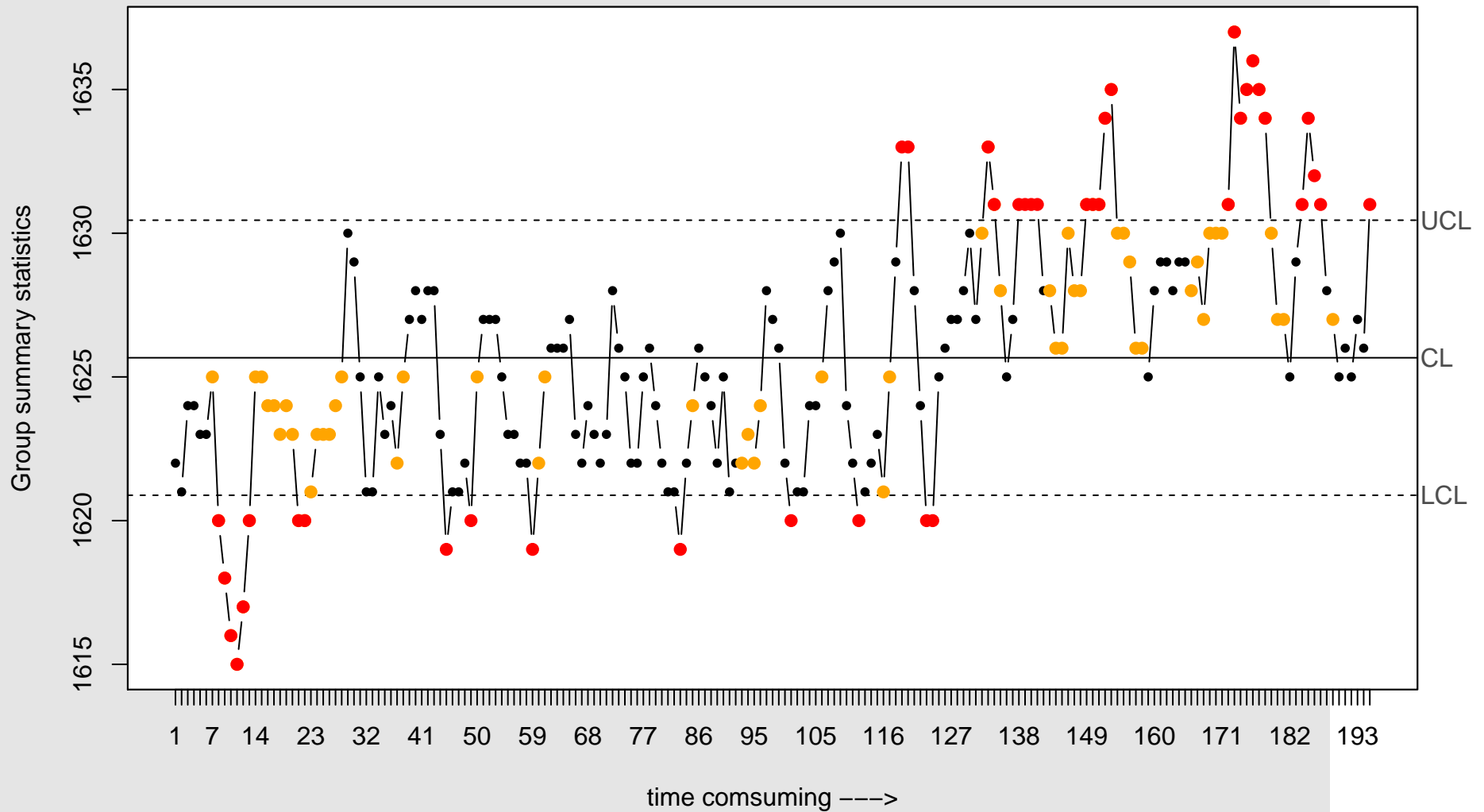
LCL = 1620.382

UCL = 1630.746

Number beyond limits = 45

Number violating runs = 66

172th column point of this product



Number of groups = 195

Center = 1625.667

StdDev = 1.594831

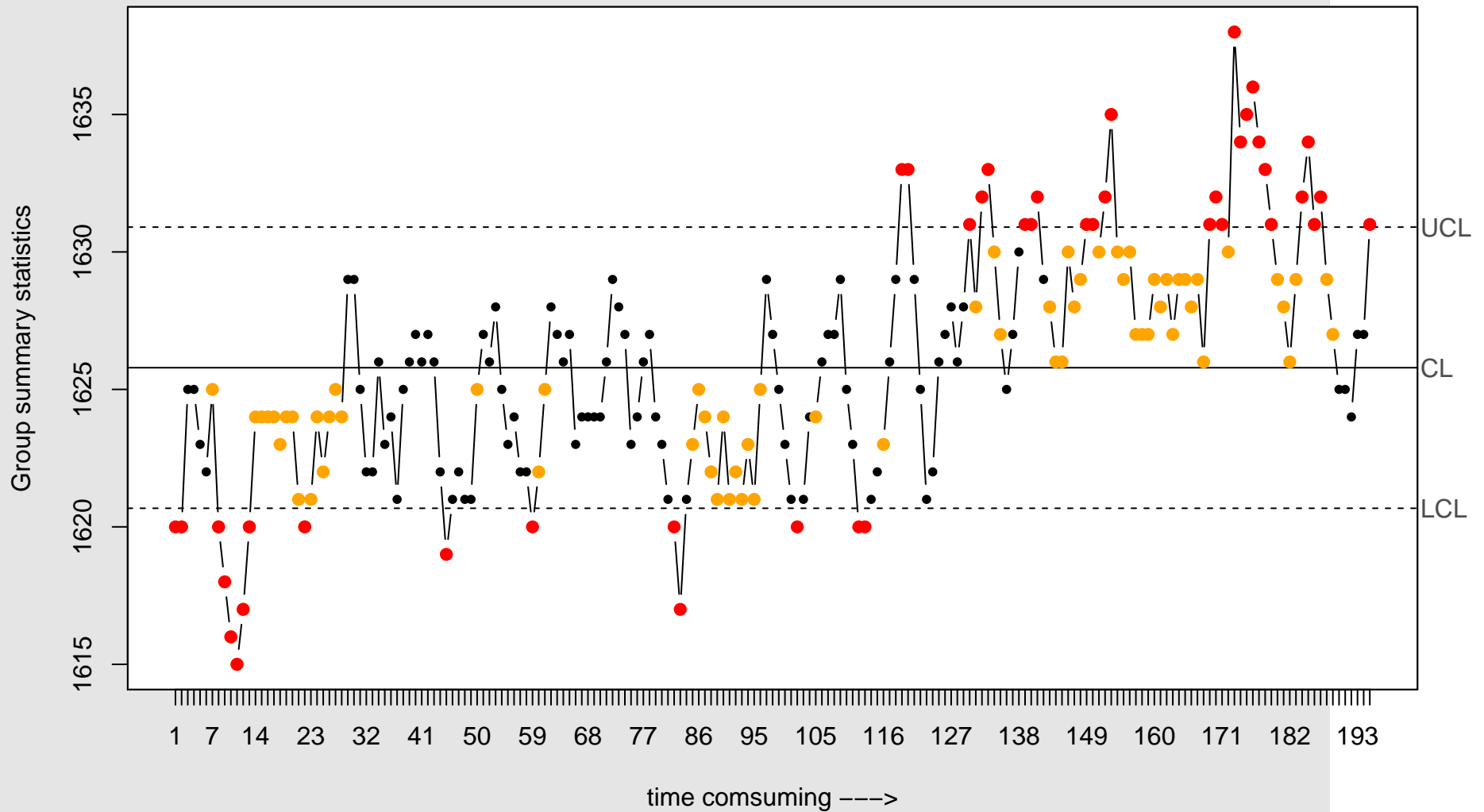
LCL = 1620.882

UCL = 1630.451

Number beyond limits = 41

Number violating runs = 72

173th column point of this product



Number of groups = 195

Center = 1625.79

StdDev = 1.704504

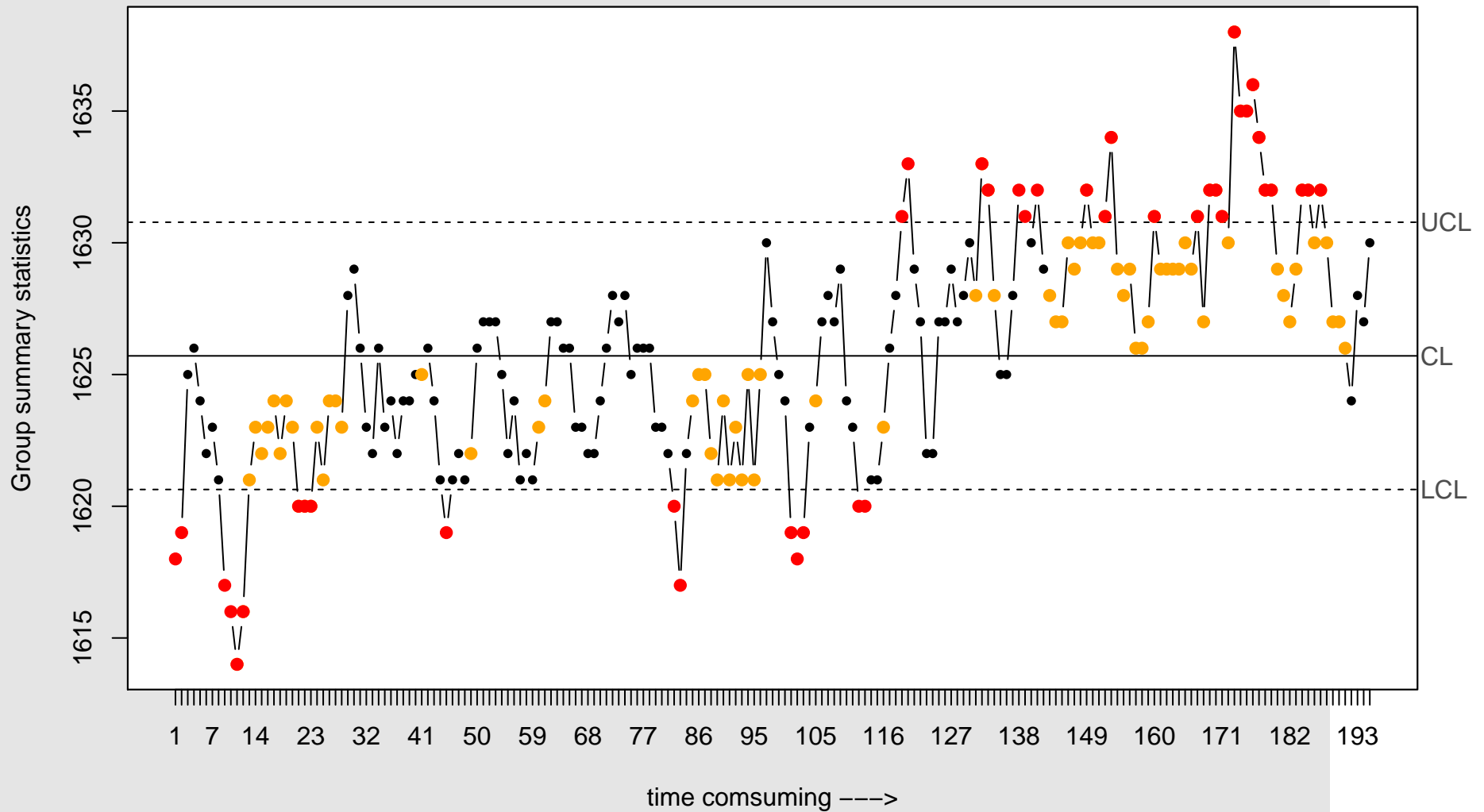
LCL = 1620.676

UCL = 1630.903

Number beyond limits = 43

Number violating runs = 91

174th column point of this product



Number of groups = 195

Center = 1625.708

StdDev = 1.690795

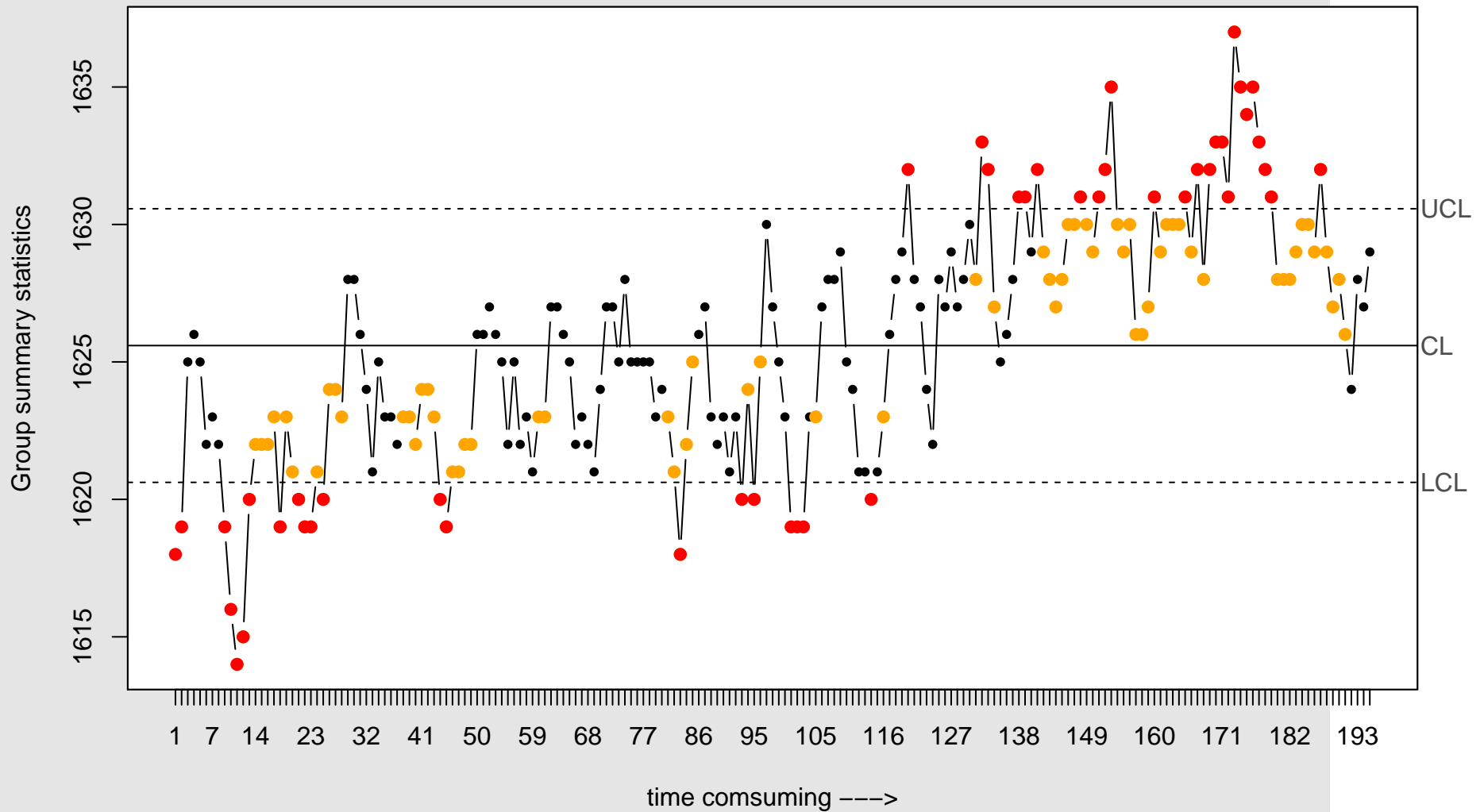
LCL = 1620.635

UCL = 1630.78

Number beyond limits = 42

Number violating runs = 89

175th column point of this product



Number of groups = 195

Center = 1625.595

StdDev = 1.658807

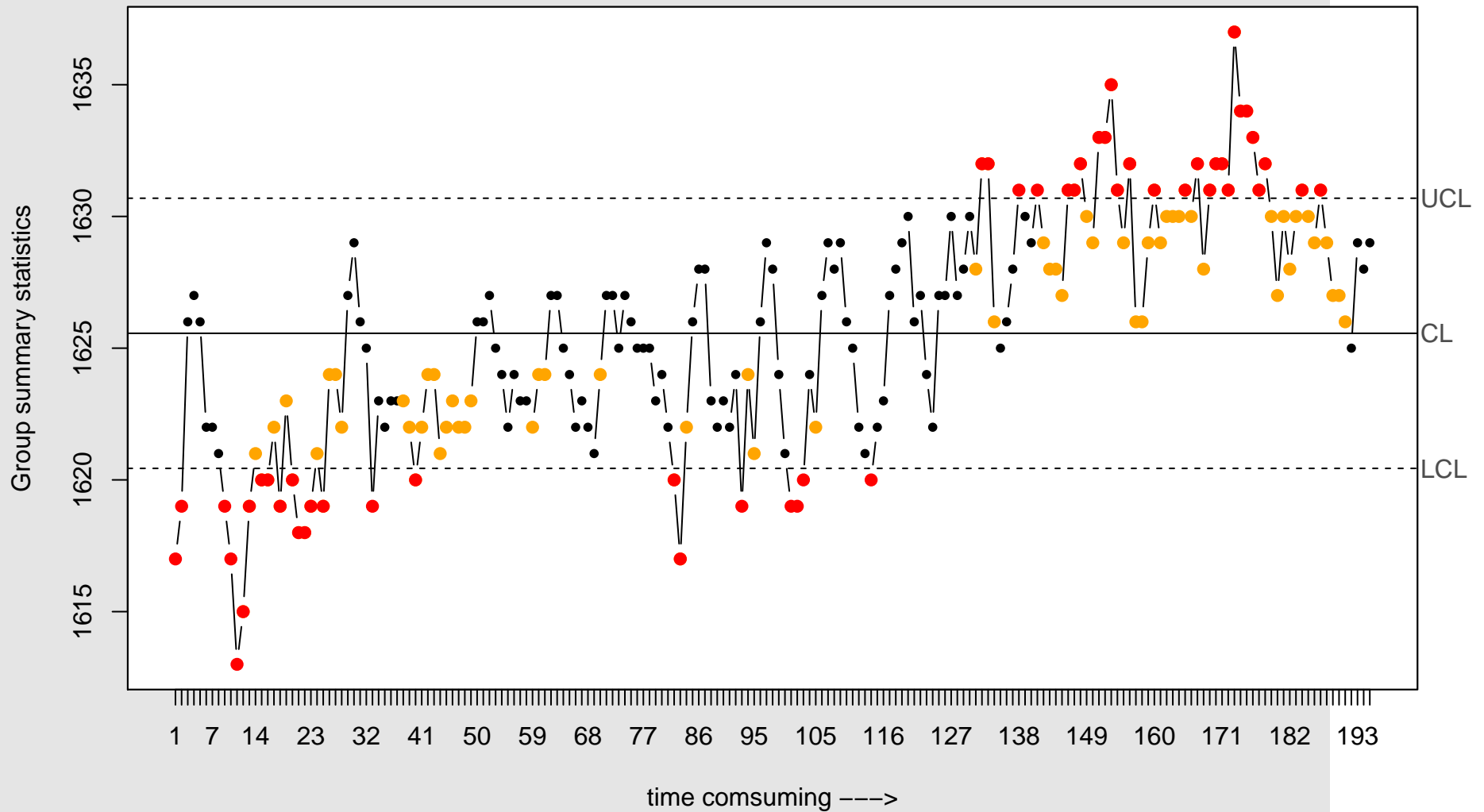
LCL = 1620.618

UCL = 1630.571

Number beyond limits = 46

Number violating runs = 96

176th column point of this product



Number of groups = 195

Center = 1625.564

StdDev = 1.709074

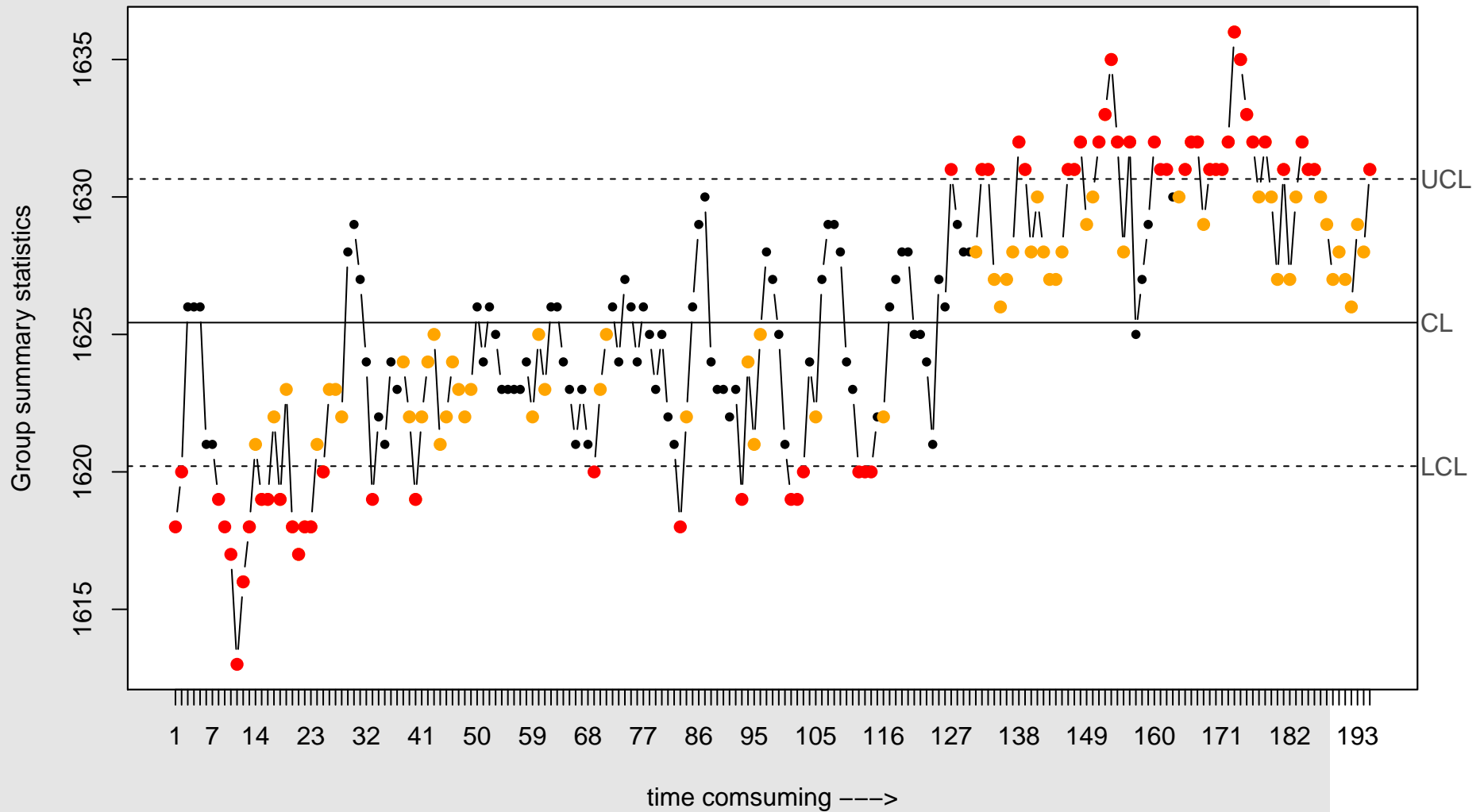
LCL = 1620.437

UCL = 1630.691

Number beyond limits = 51

Number violating runs = 93

177th column point of this product



Number of groups = 195

Center = 1625.431

StdDev = 1.741062

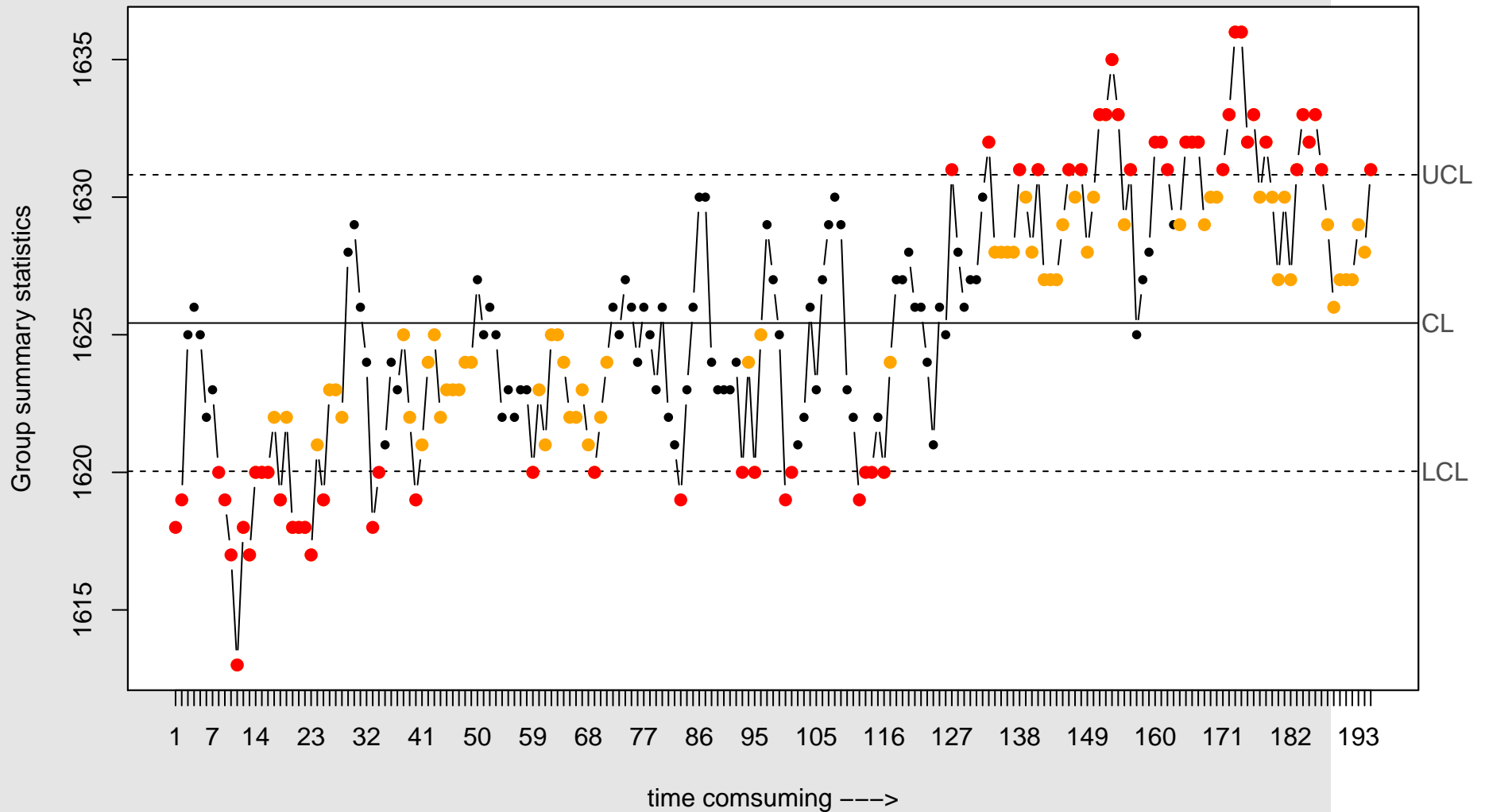
LCL = 1620.208

UCL = 1630.654

Number beyond limits = 60

Number violating runs = 98

178th column point of this product



Number of groups = 195

Center = 1625.426

StdDev = 1.795898

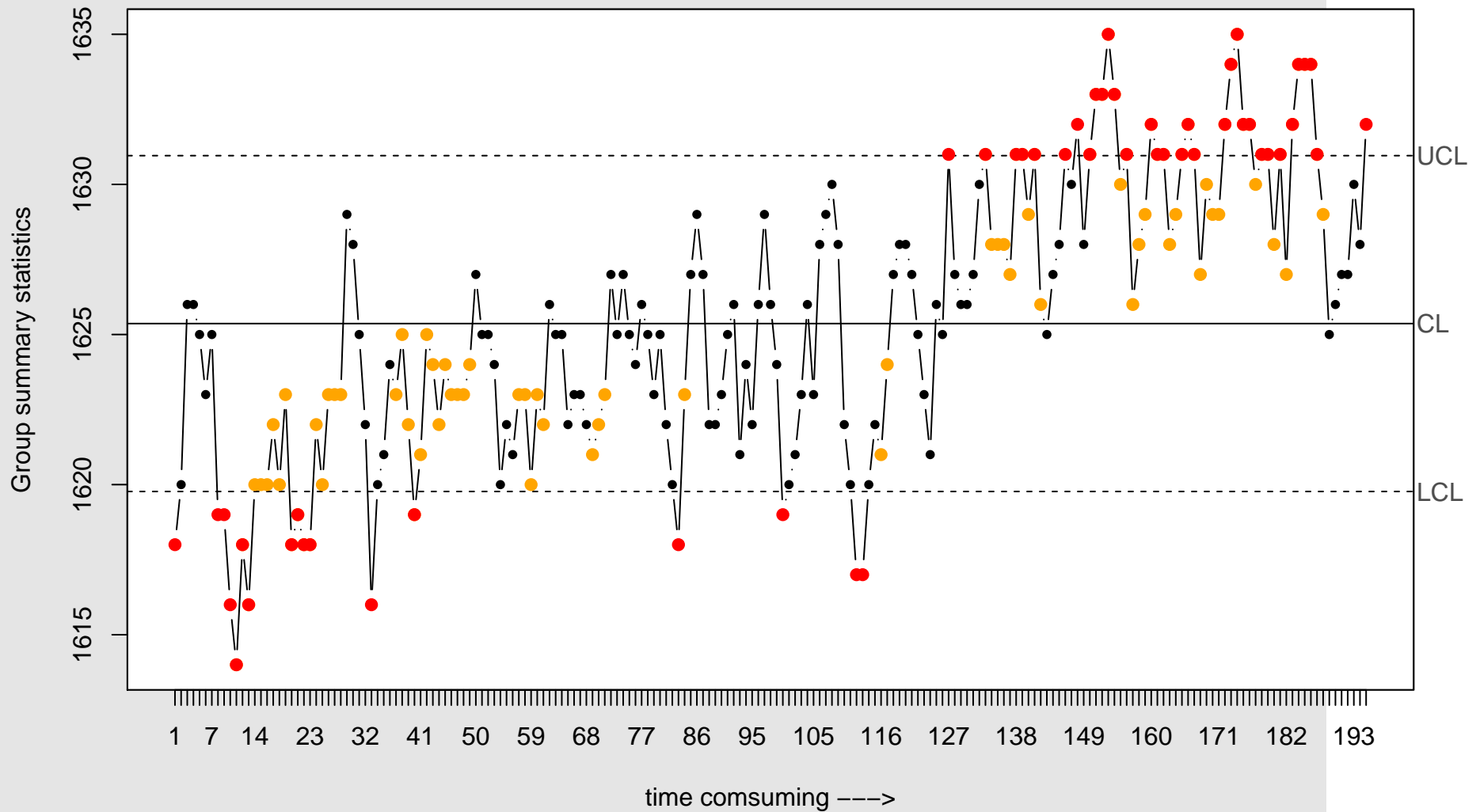
LCL = 1620.038

UCL = 1630.813

Number beyond limits = 61

Number violating runs = 104

179th column point of this product



Number of groups = 195

Center = 1625.364

StdDev = 1.864444

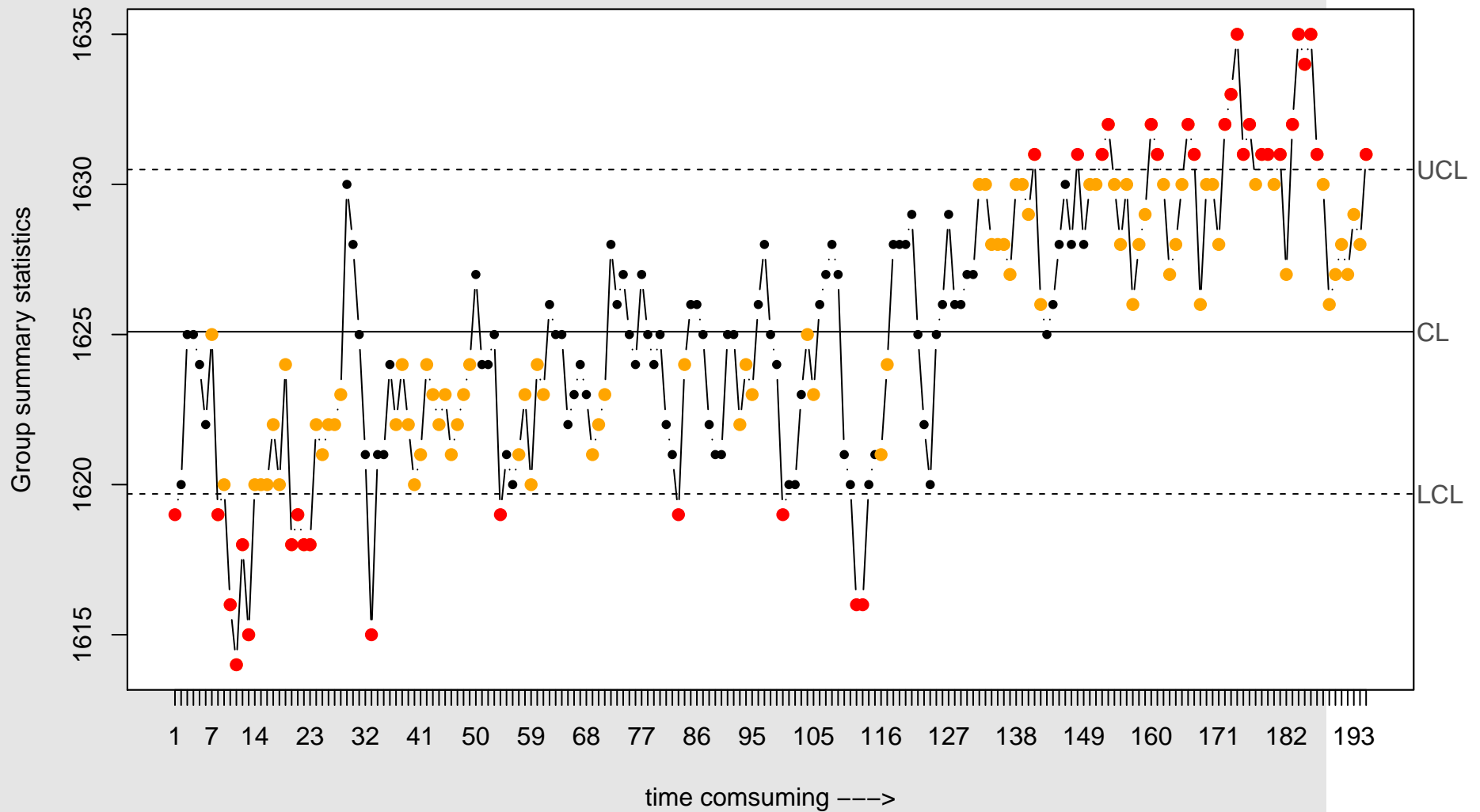
LCL = 1619.771

UCL = 1630.957

Number beyond limits = 50

Number violating runs = 91

180th column point of this product

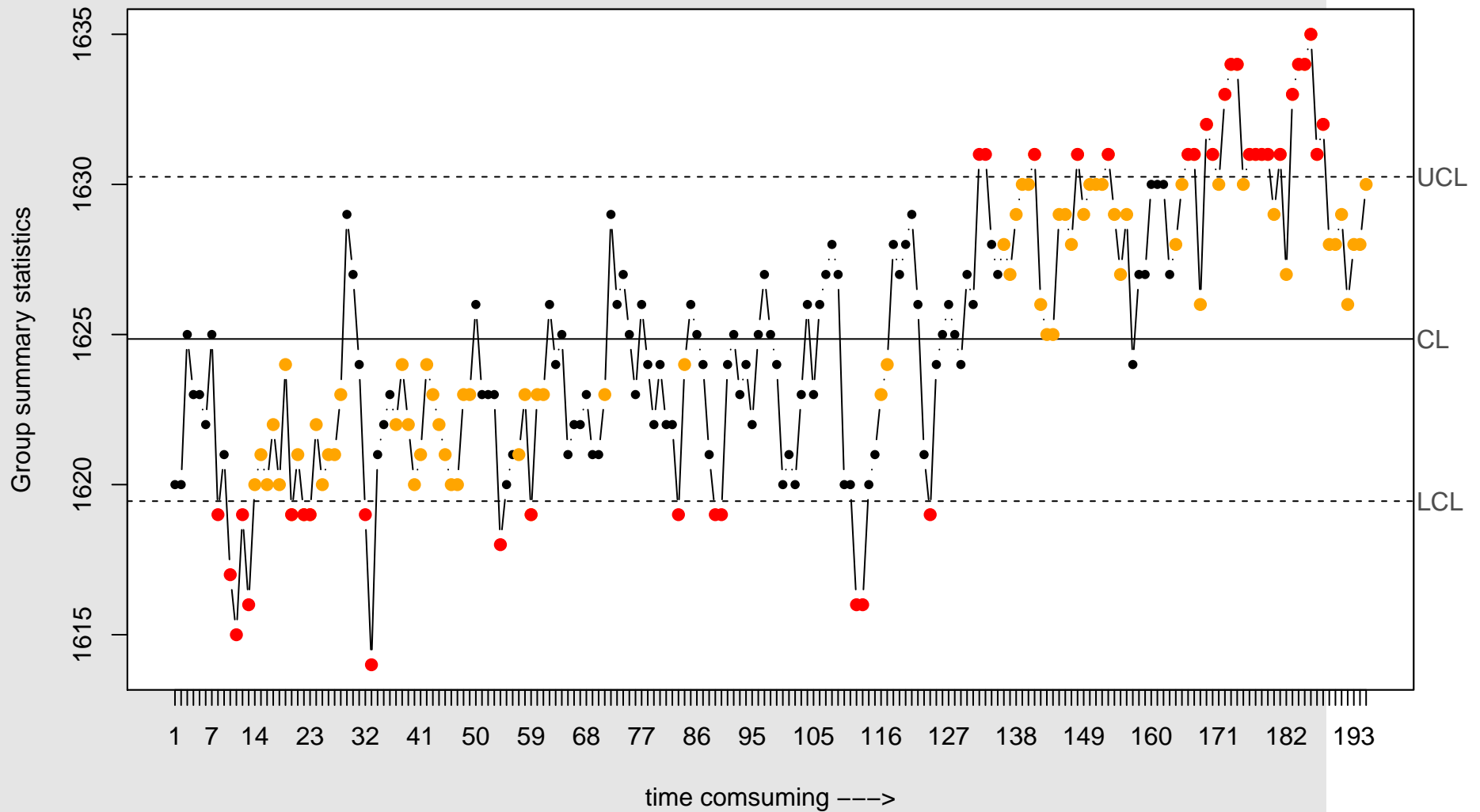


Number of groups = 195
Center = 1625.092
StdDev = 1.800468

LCL = 1619.691
UCL = 1630.494

Number beyond limits = 38
Number violating runs = 108

181th column point of this product



Number of groups = 195

Center = 1624.851

StdDev = 1.800468

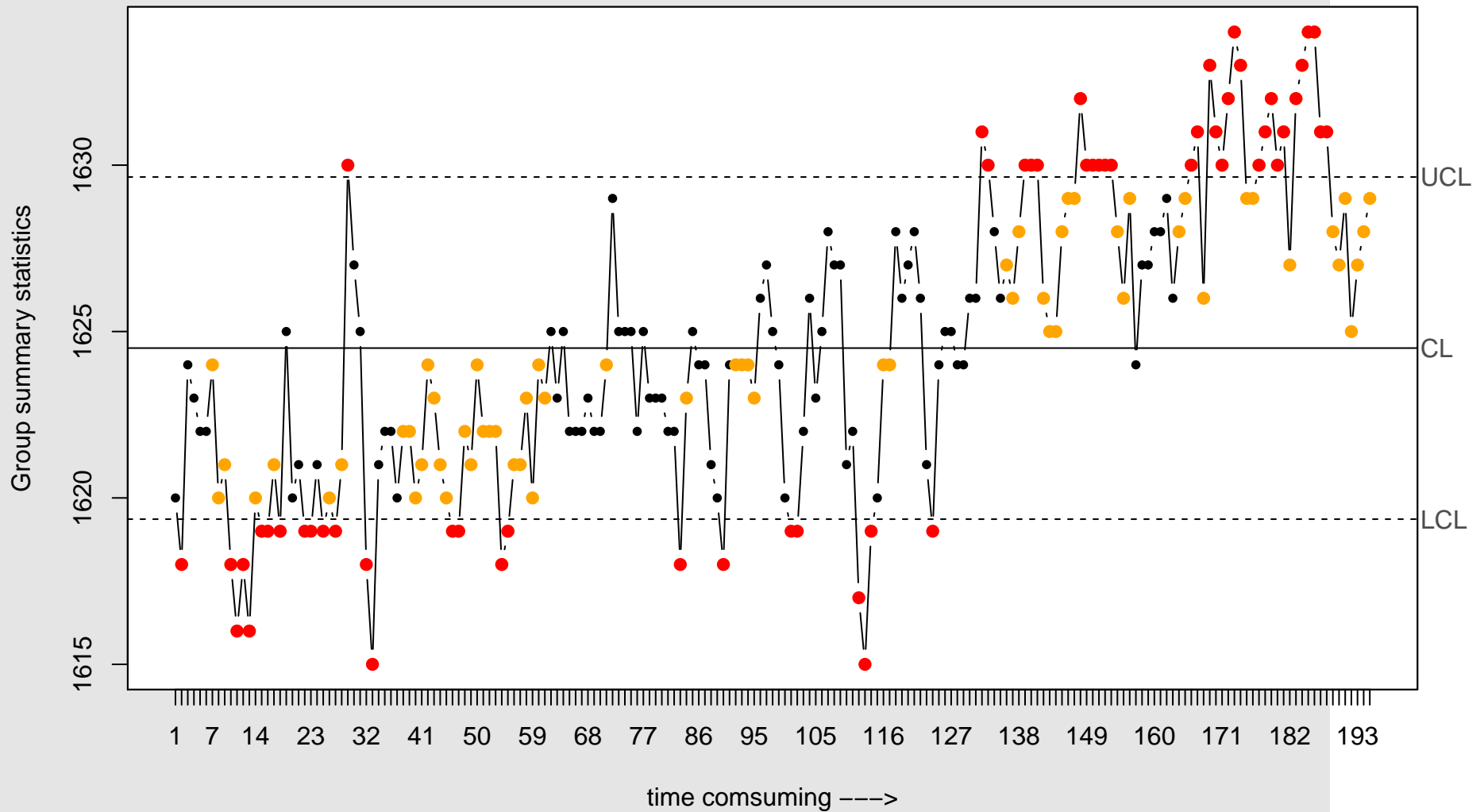
LCL = 1619.45

UCL = 1630.253

Number beyond limits = 41

Number violating runs = 90

182th column point of this product



Number of groups = 195

Center = 1624.503

StdDev = 1.713643

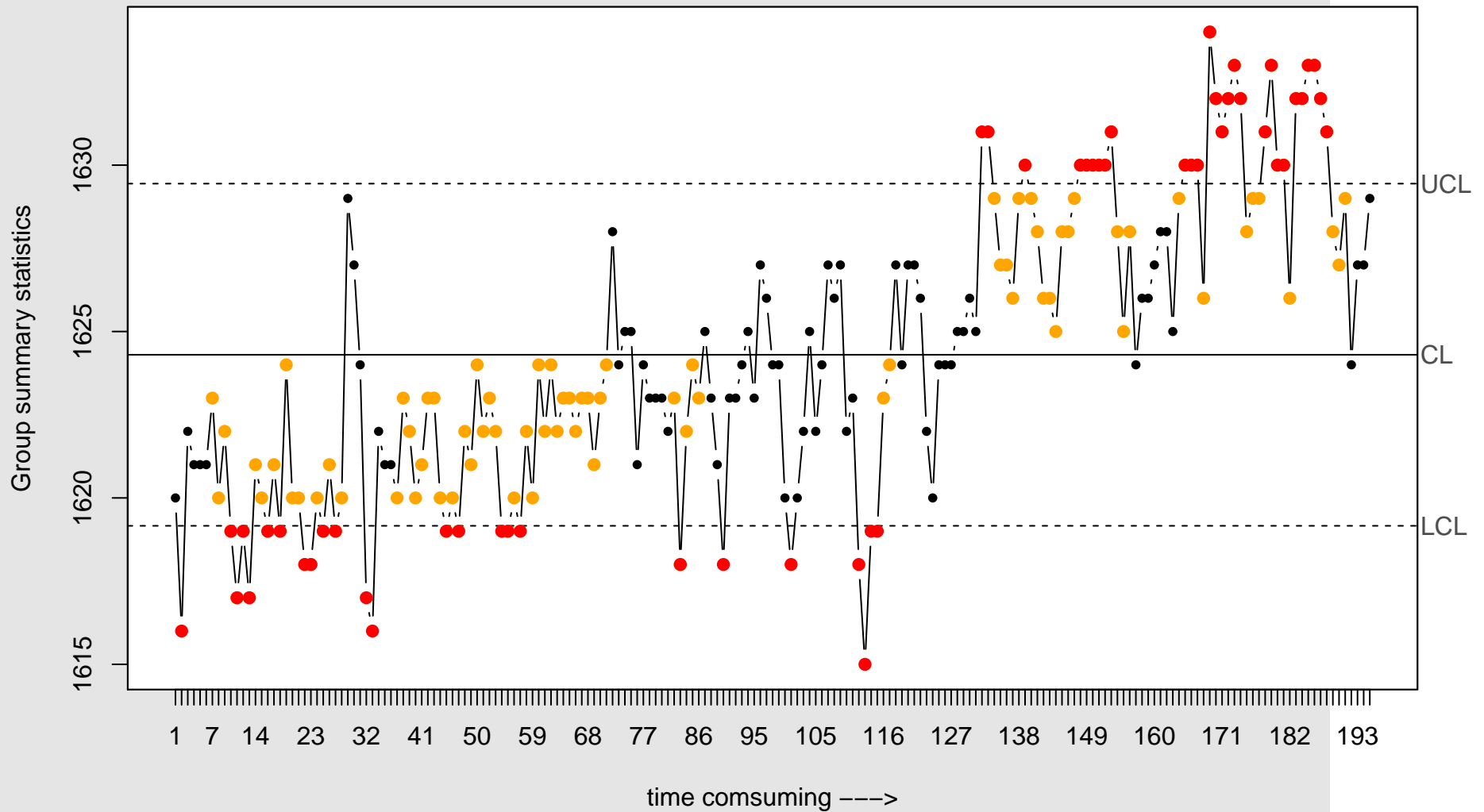
LCL = 1619.362

UCL = 1629.643

Number beyond limits = 57

Number violating runs = 100

183th column point of this product



Number of groups = 195

Center = 1624.303

StdDev = 1.713643

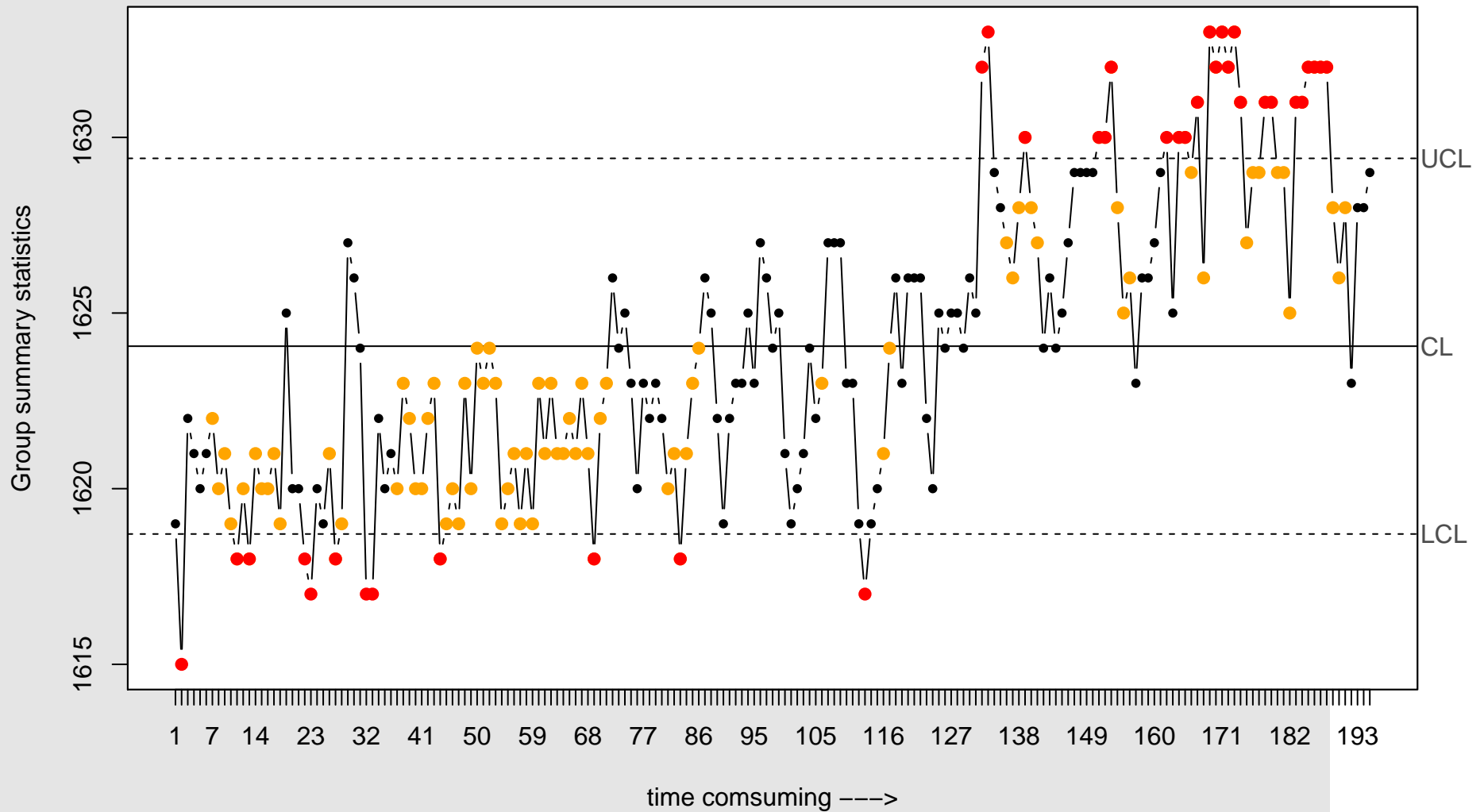
LCL = 1619.162

UCL = 1629.443

Number beyond limits = 53

Number violating runs = 115

184th column point of this product



Number of groups = 195

Center = 1624.056

StdDev = 1.782189

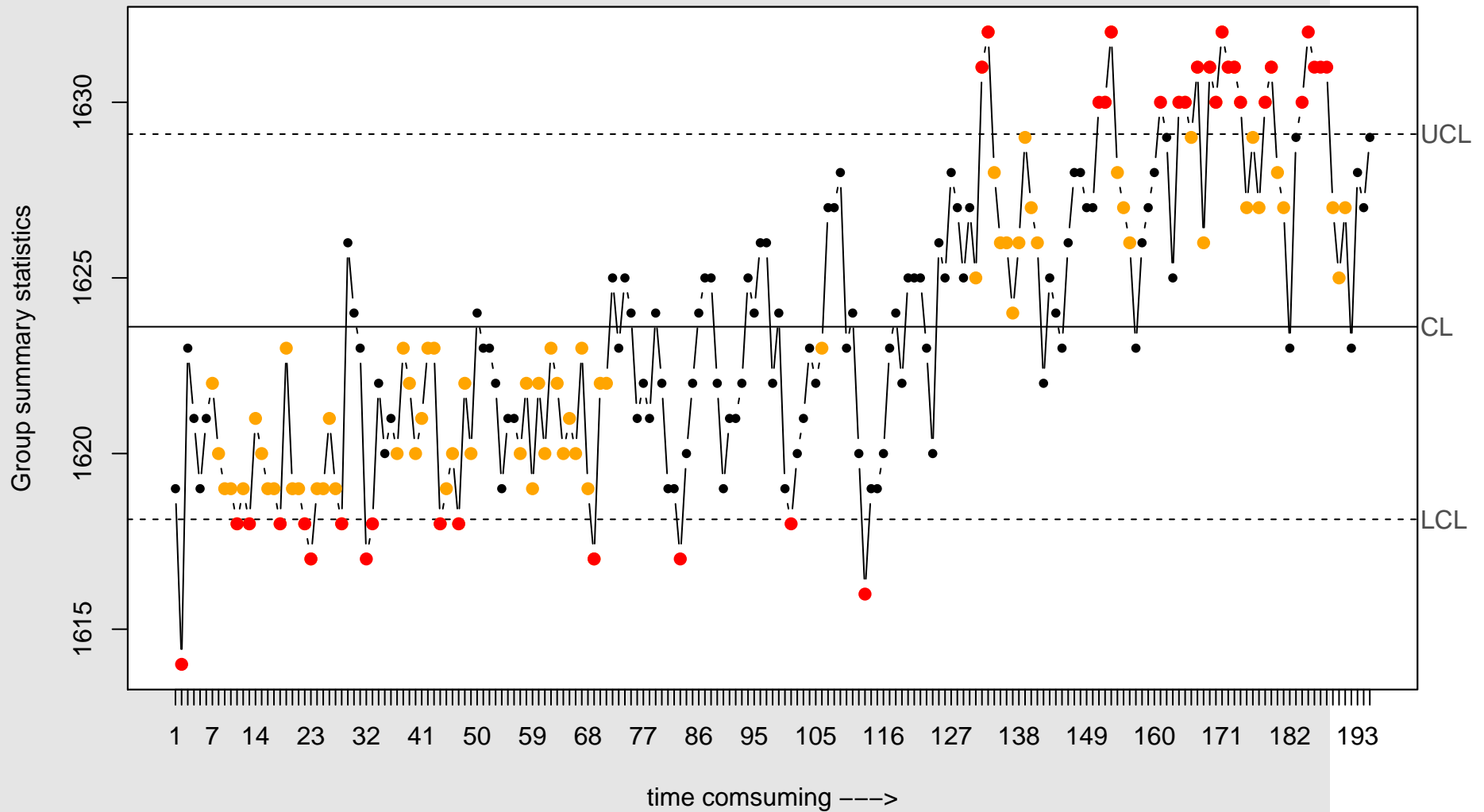
LCL = 1618.71

UCL = 1629.403

Number beyond limits = 36

Number violating runs = 99

185th column point of this product



Number of groups = 195

Center = 1623.61

StdDev = 1.827886

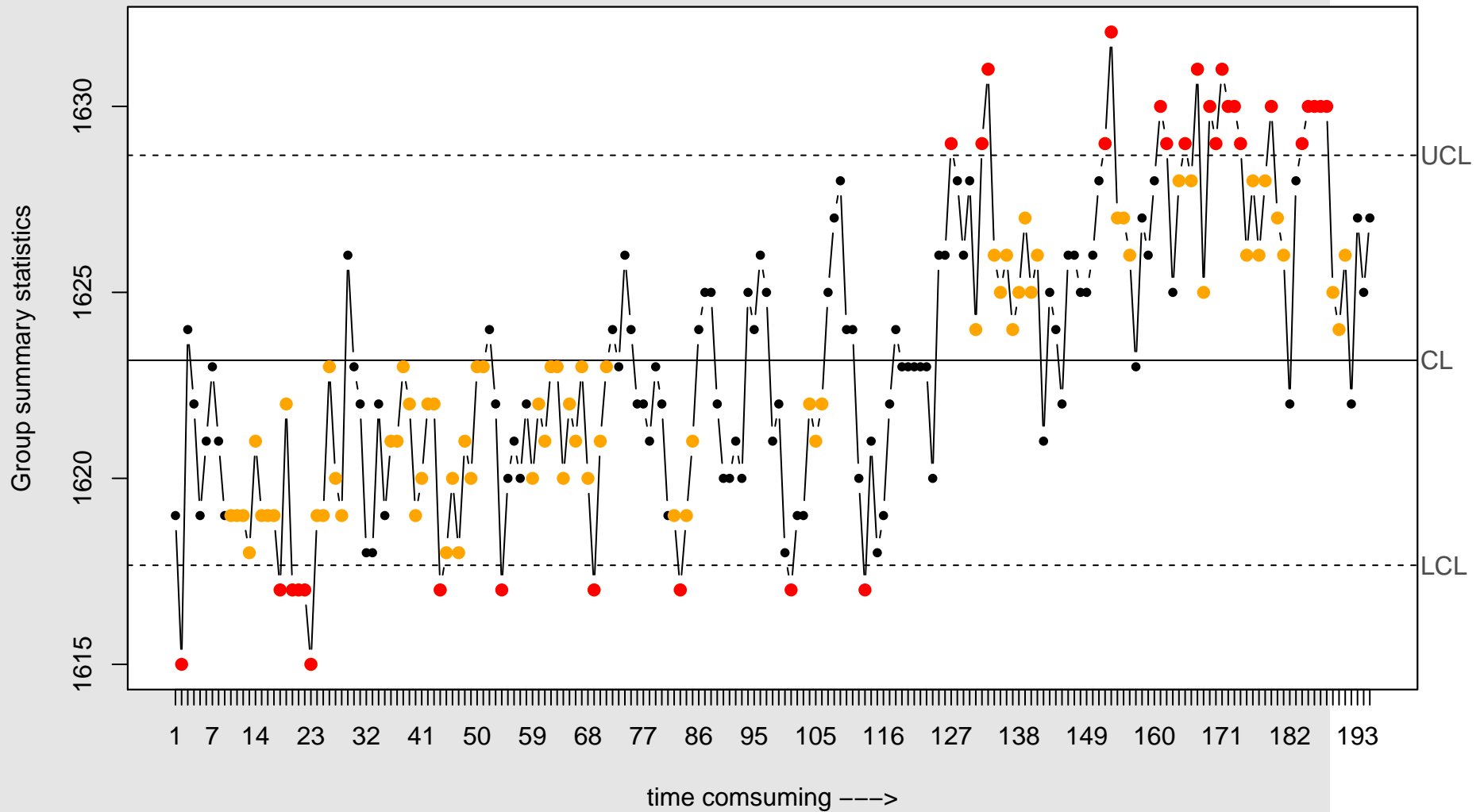
LCL = 1618.127

UCL = 1629.094

Number beyond limits = 37

Number violating runs = 88

186th column point of this product



Number of groups = 195

Center = 1623.174

StdDev = 1.837026

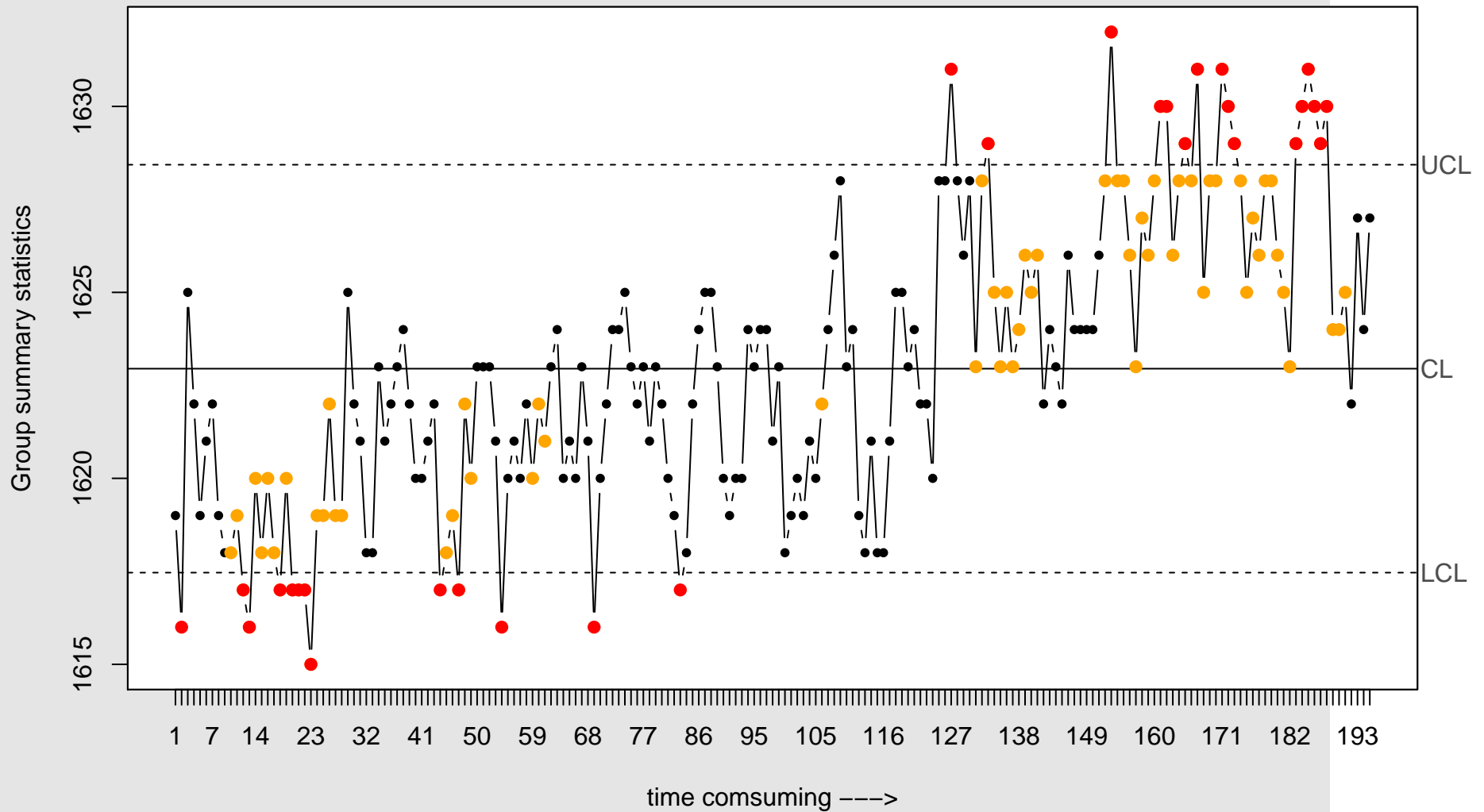
LCL = 1617.663

UCL = 1628.685

Number beyond limits = 33

Number violating runs = 92

187th column point of this product



Number of groups = 195

Center = 1622.949

StdDev = 1.827886

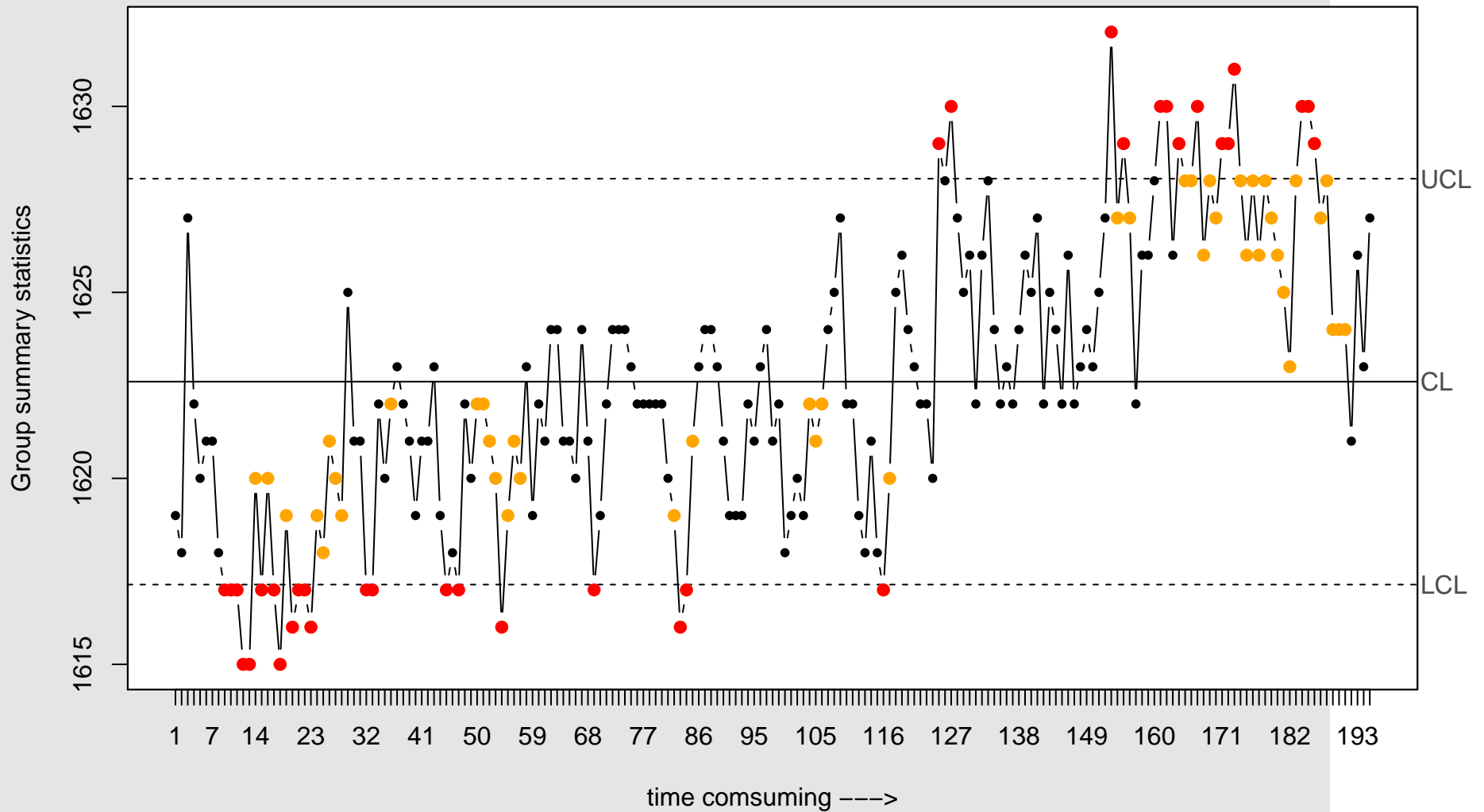
LCL = 1617.465

UCL = 1628.432

Number beyond limits = 29

Number violating runs = 79

188th column point of this product



Number of groups = 195

Center = 1622.6

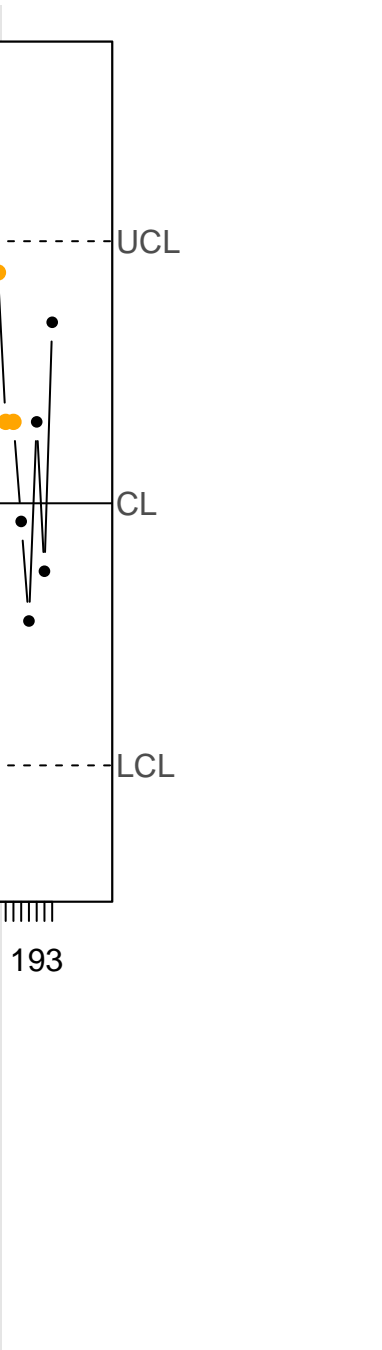
StdDev = 1.818747

LCL = 1617.144

UCL = 1628.056

Number beyond limits = 35

Number violating runs = 68

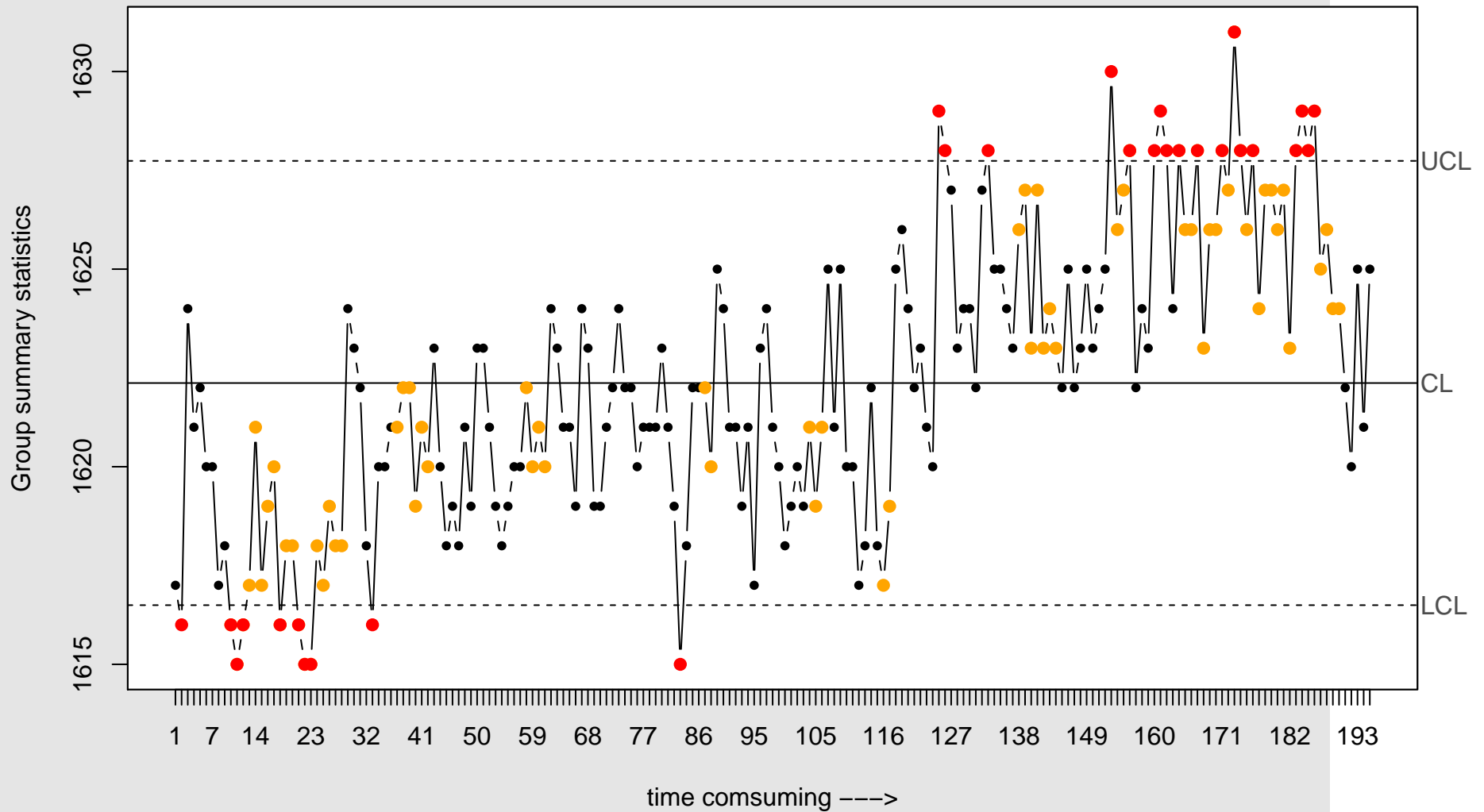


Number of groups = 195
Center = 1622.364
StdDev = 1.754771

LCL = 1617.1
UCL = 1627.628

Number beyond limits = 39
Number violating runs = 76

190th column point of this product



Number of groups = 195

Center = 1622.118

StdDev = 1.873583

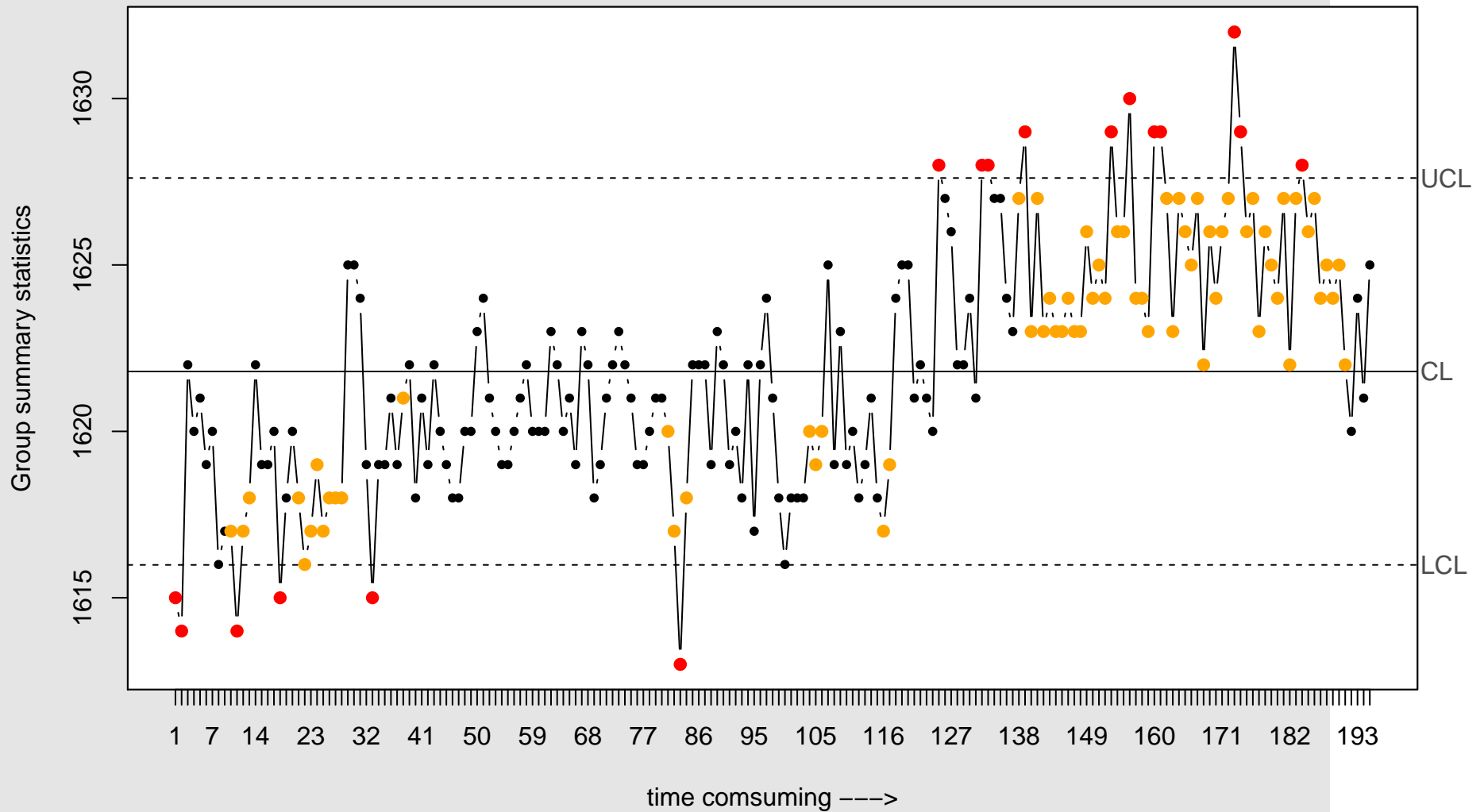
LCL = 1616.497

UCL = 1627.739

Number beyond limits = 28

Number violating runs = 73

191th column point of this product



Number of groups = 195

Center = 1621.8

StdDev = 1.937559

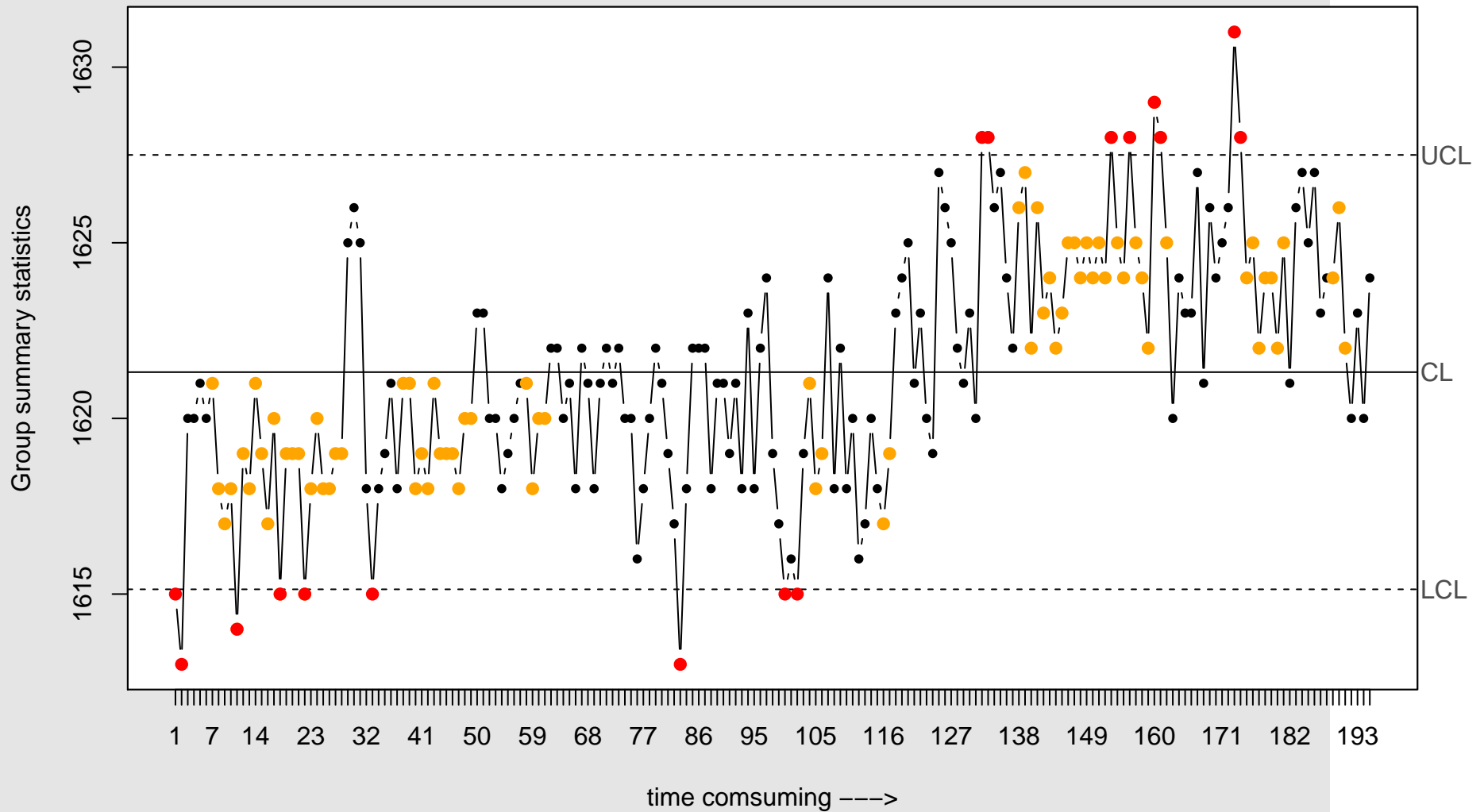
LCL = 1615.987

UCL = 1627.613

Number beyond limits = 17

Number violating runs = 76

192th column point of this product



Number of groups = 195

Center = 1621.318

StdDev = 2.060942

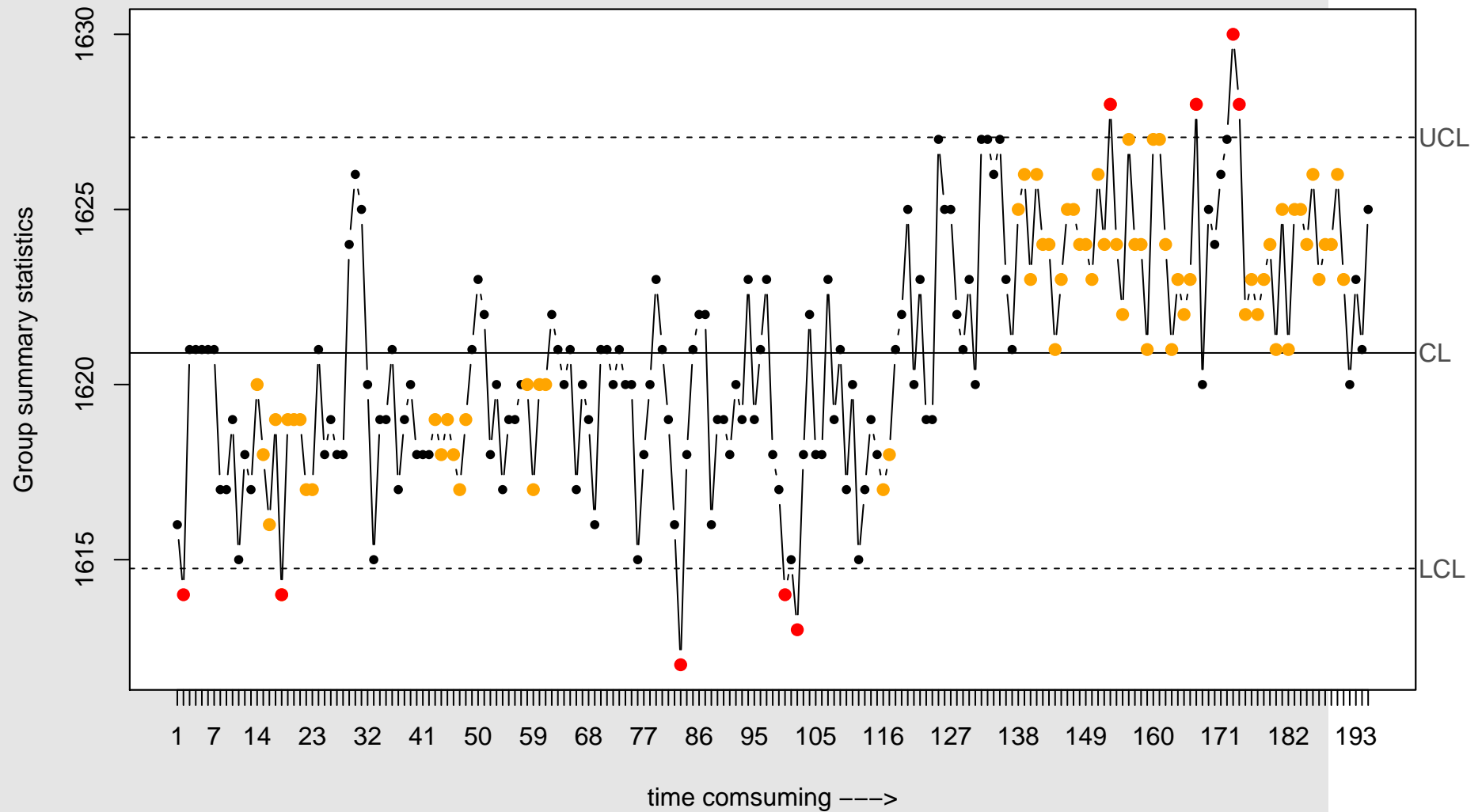
LCL = 1615.135

UCL = 1627.501

Number beyond limits = 17

Number violating runs = 78

193th column point of this product



Number of groups = 195

Center = 1620.903

StdDev = 2.051802

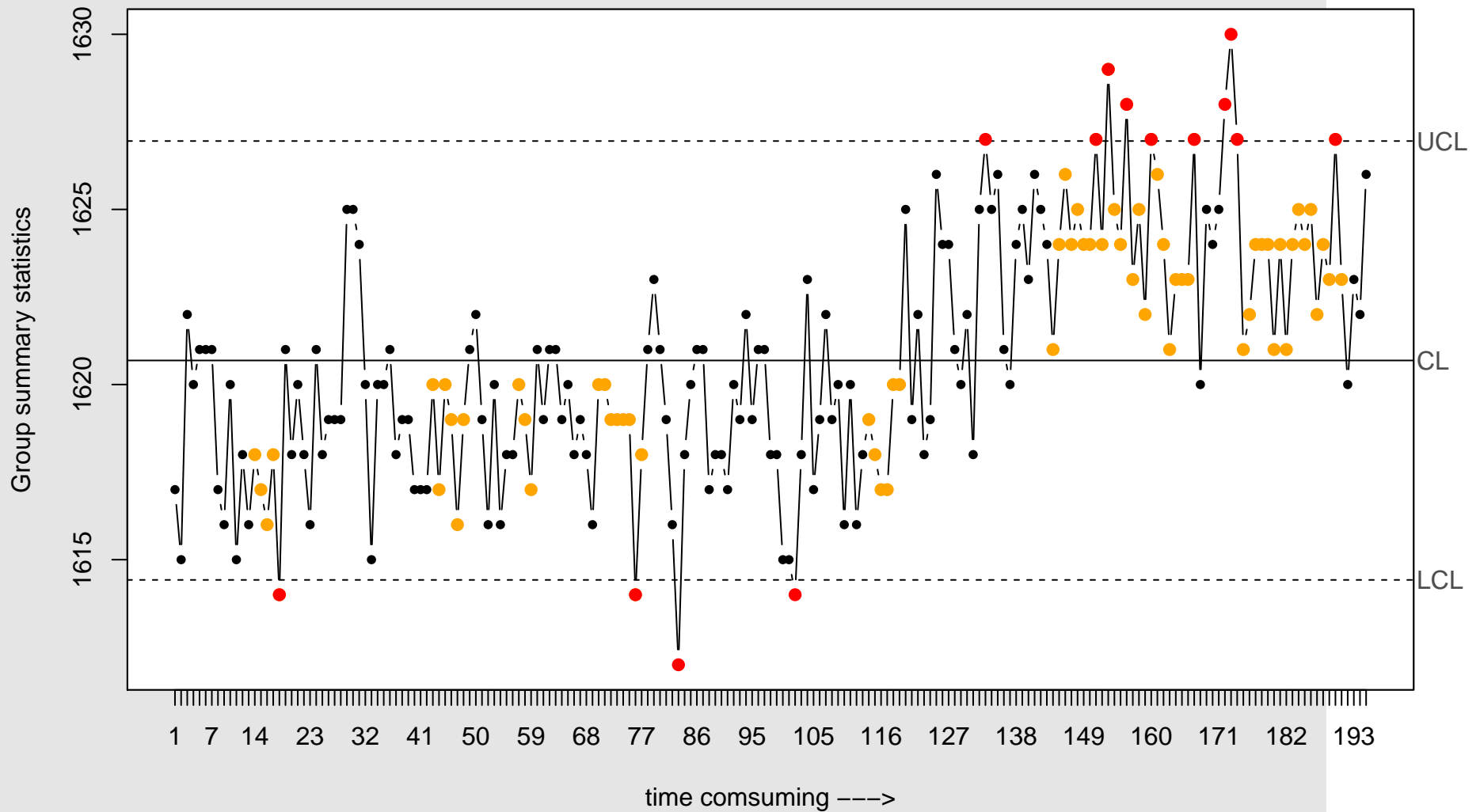
LCL = 1614.747

UCL = 1627.058

Number beyond limits = 9

Number violating runs = 69

194th column point of this product



Number of groups = 195

Center = 1620.687

StdDev = 2.08836

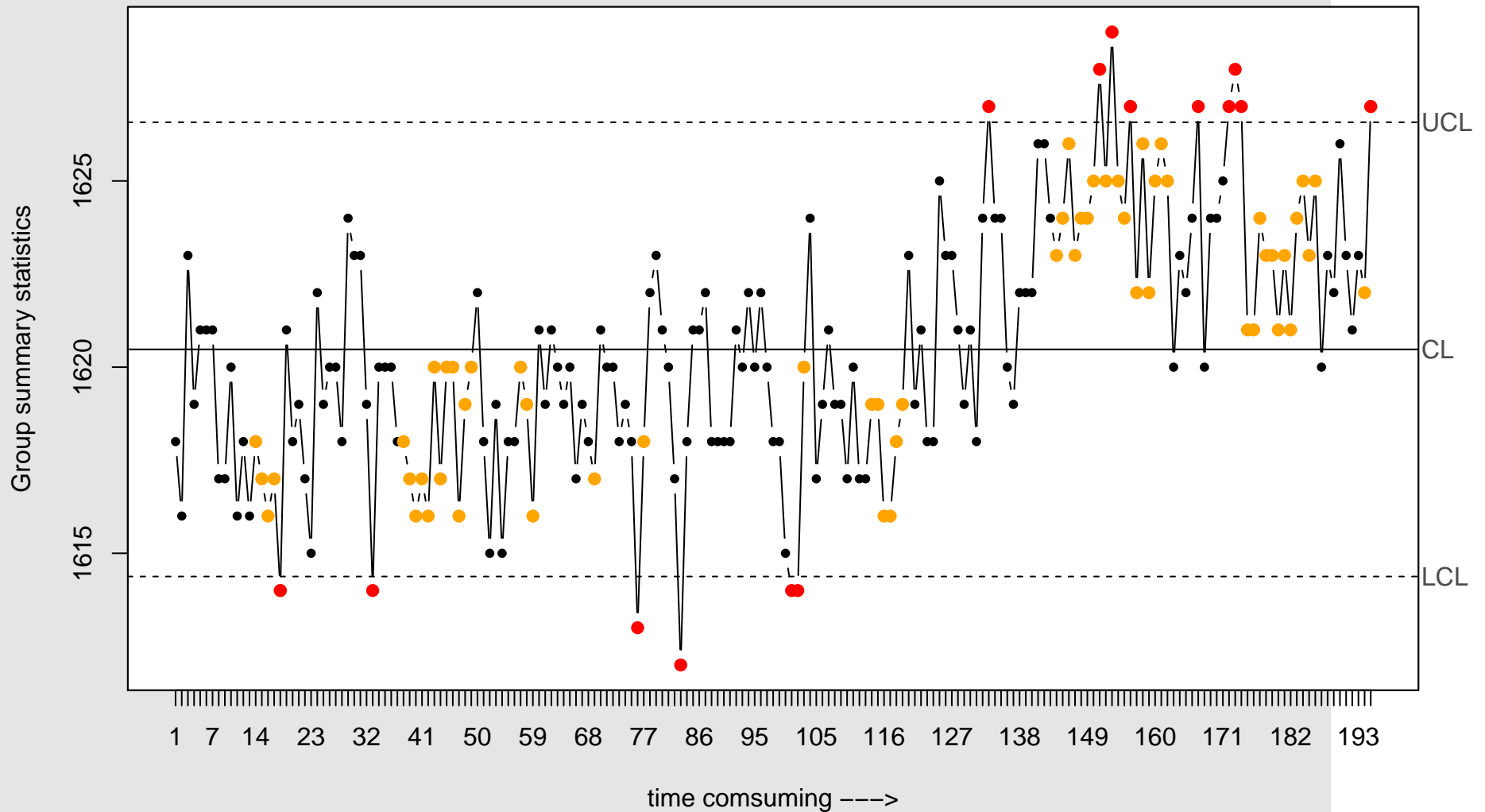
LCL = 1614.422

UCL = 1626.952

Number beyond limits = 14

Number violating runs = 69

195th column point of this product



Number of groups = 195

Center = 1620.477

StdDev = 2.033523

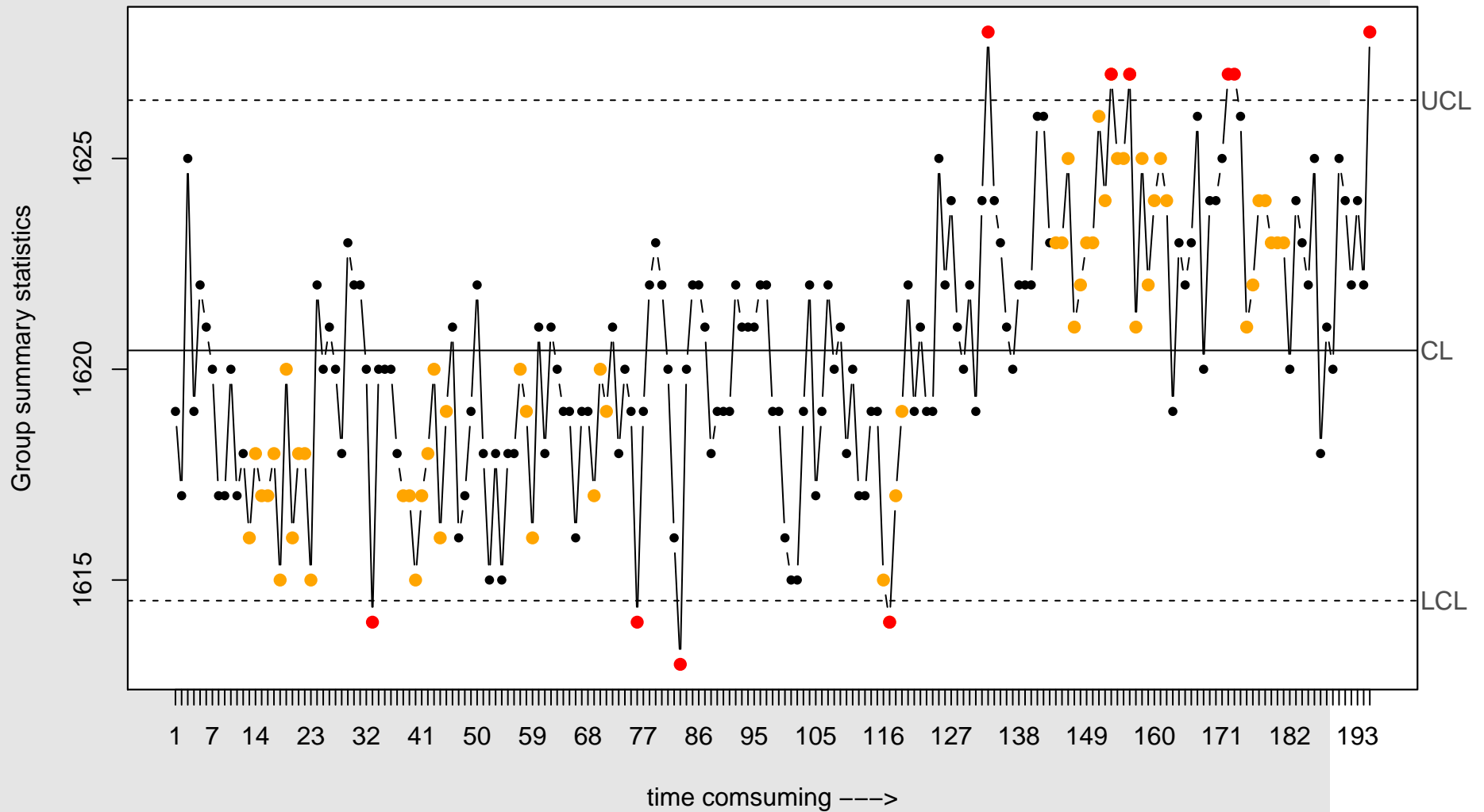
LCL = 1614.376

UCL = 1626.577

Number beyond limits = 15

Number violating runs = 62

196th column point of this product



Number of groups = 195

Center = 1620.446

StdDev = 1.978687

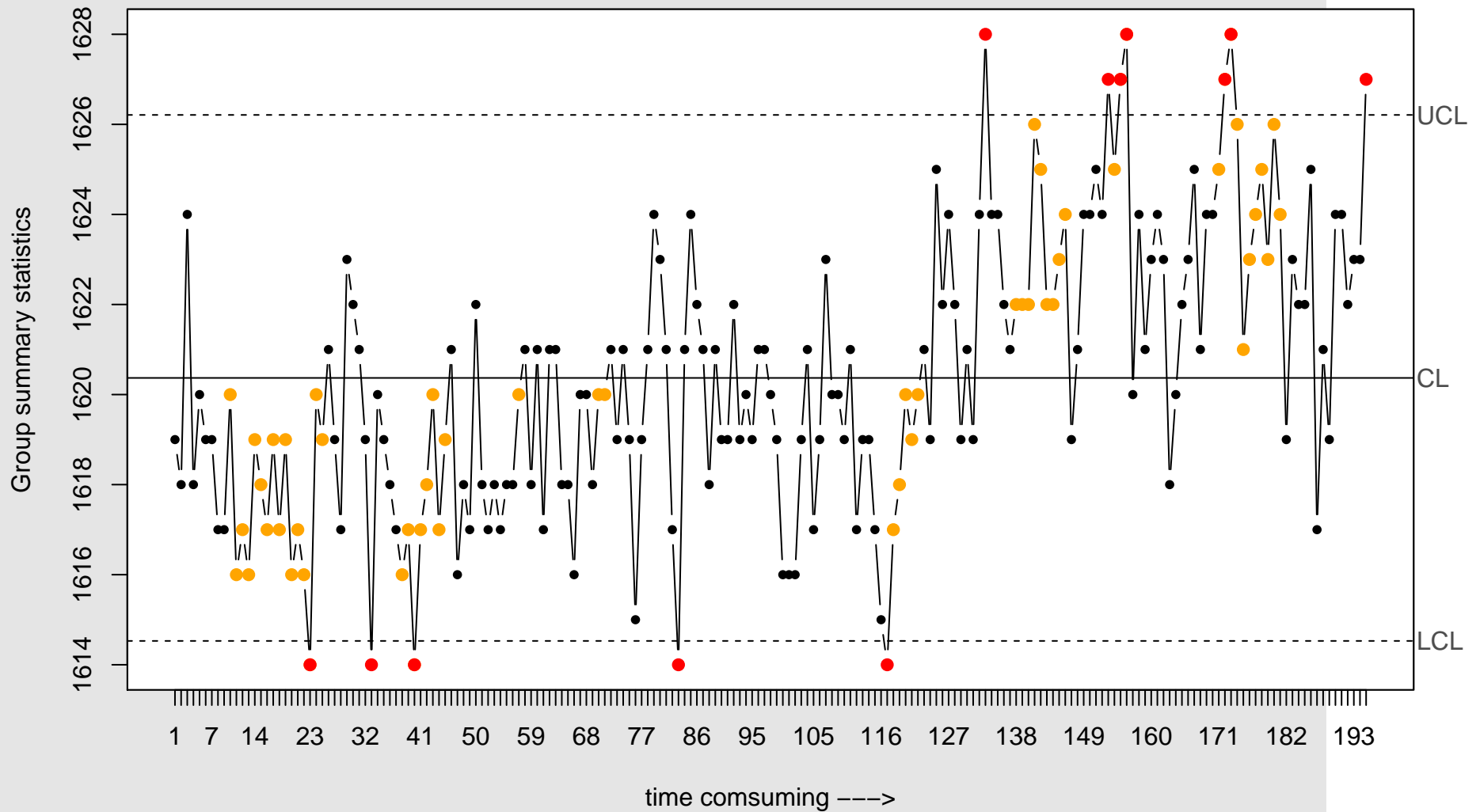
LCL = 1614.51

UCL = 1626.382

Number beyond limits = 10

Number violating runs = 55

197th column point of this product



Number of groups = 195

Center = 1620.369

StdDev = 1.946699

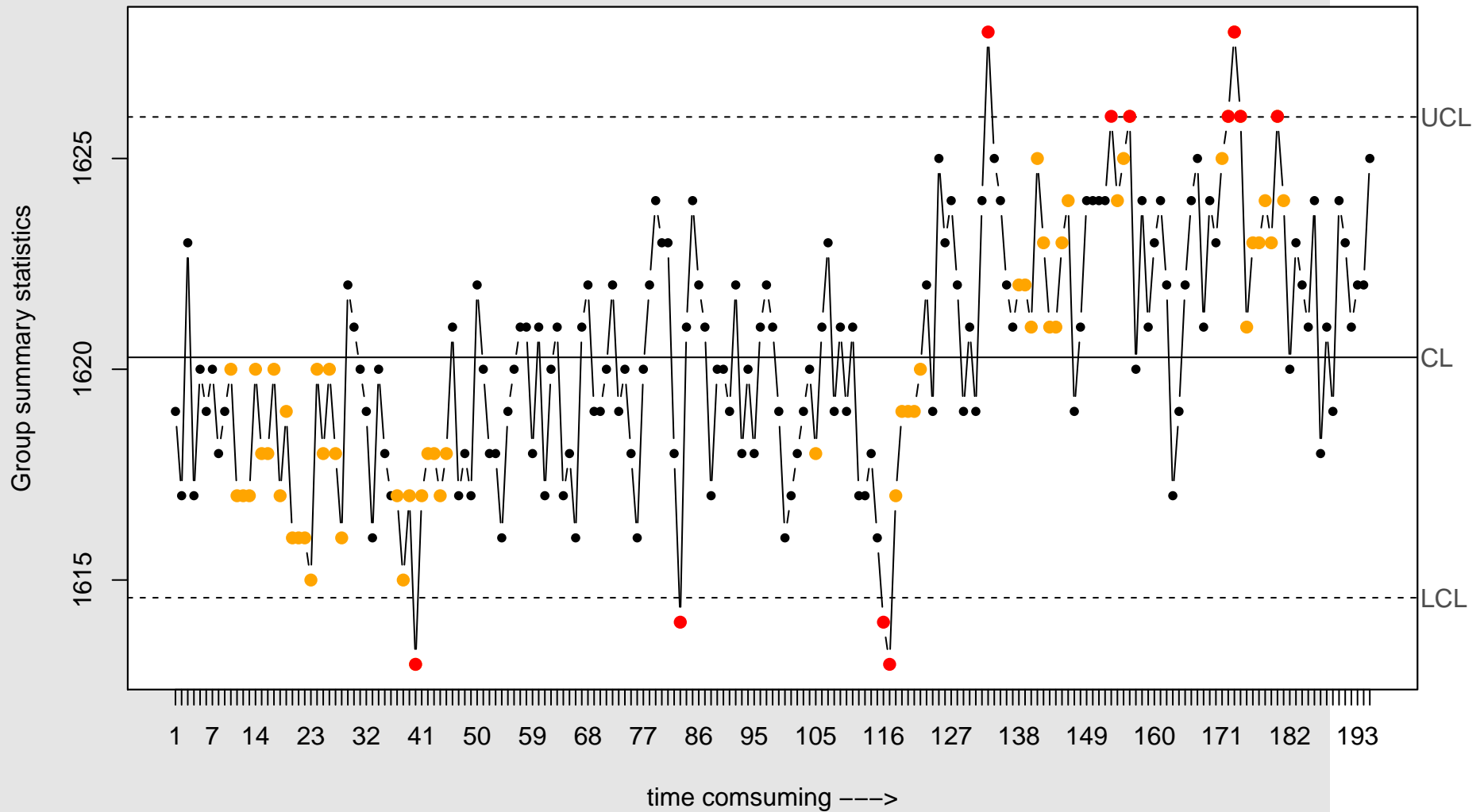
LCL = 1614.529

UCL = 1626.209

Number beyond limits = 12

Number violating runs = 55

198th column point of this product



Number of groups = 195

Center = 1620.282

StdDev = 1.901002

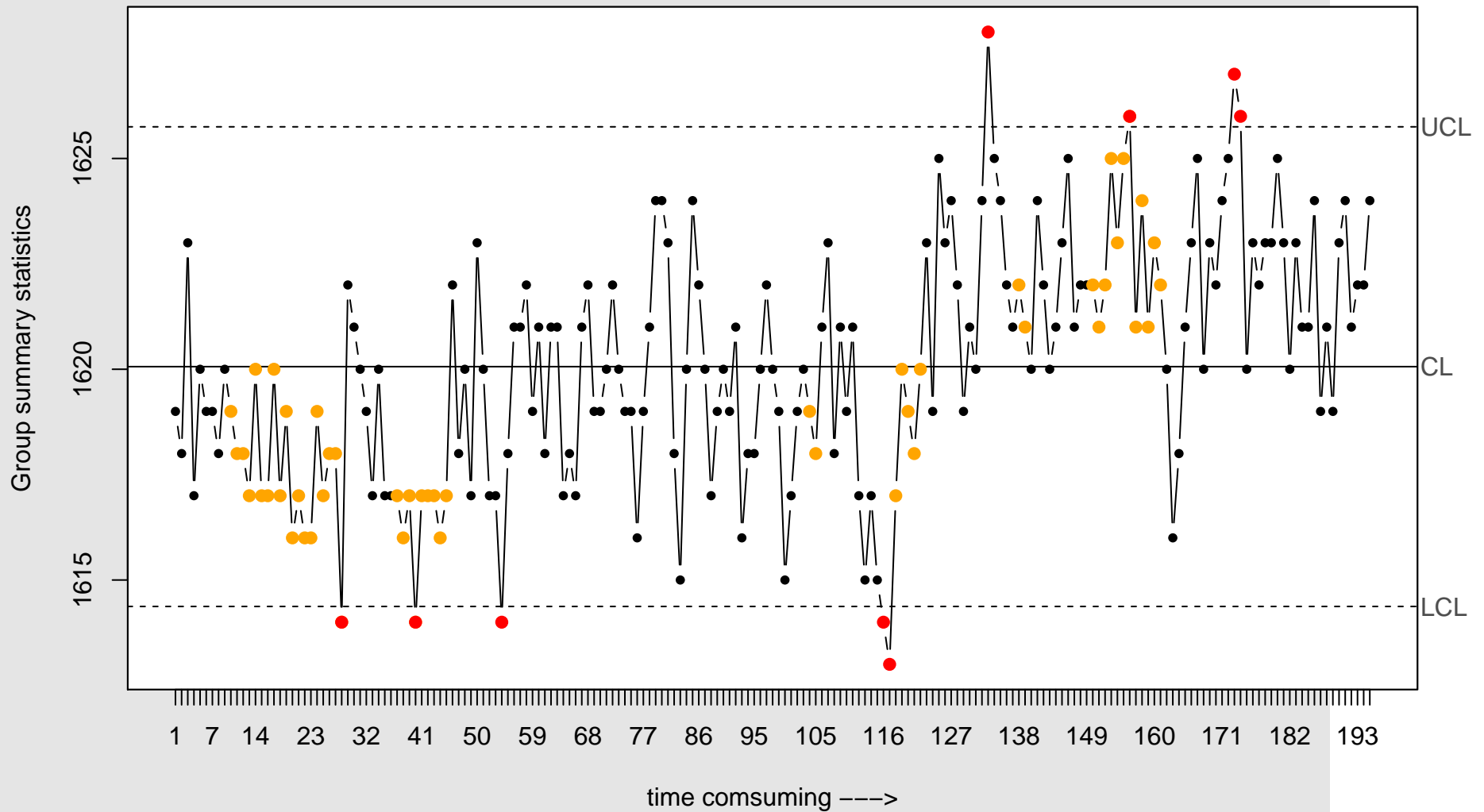
LCL = 1614.579

UCL = 1625.985

Number beyond limits = 11

Number violating runs = 57

199th column point of this product



Number of groups = 195

Center = 1620.062

StdDev = 1.896432

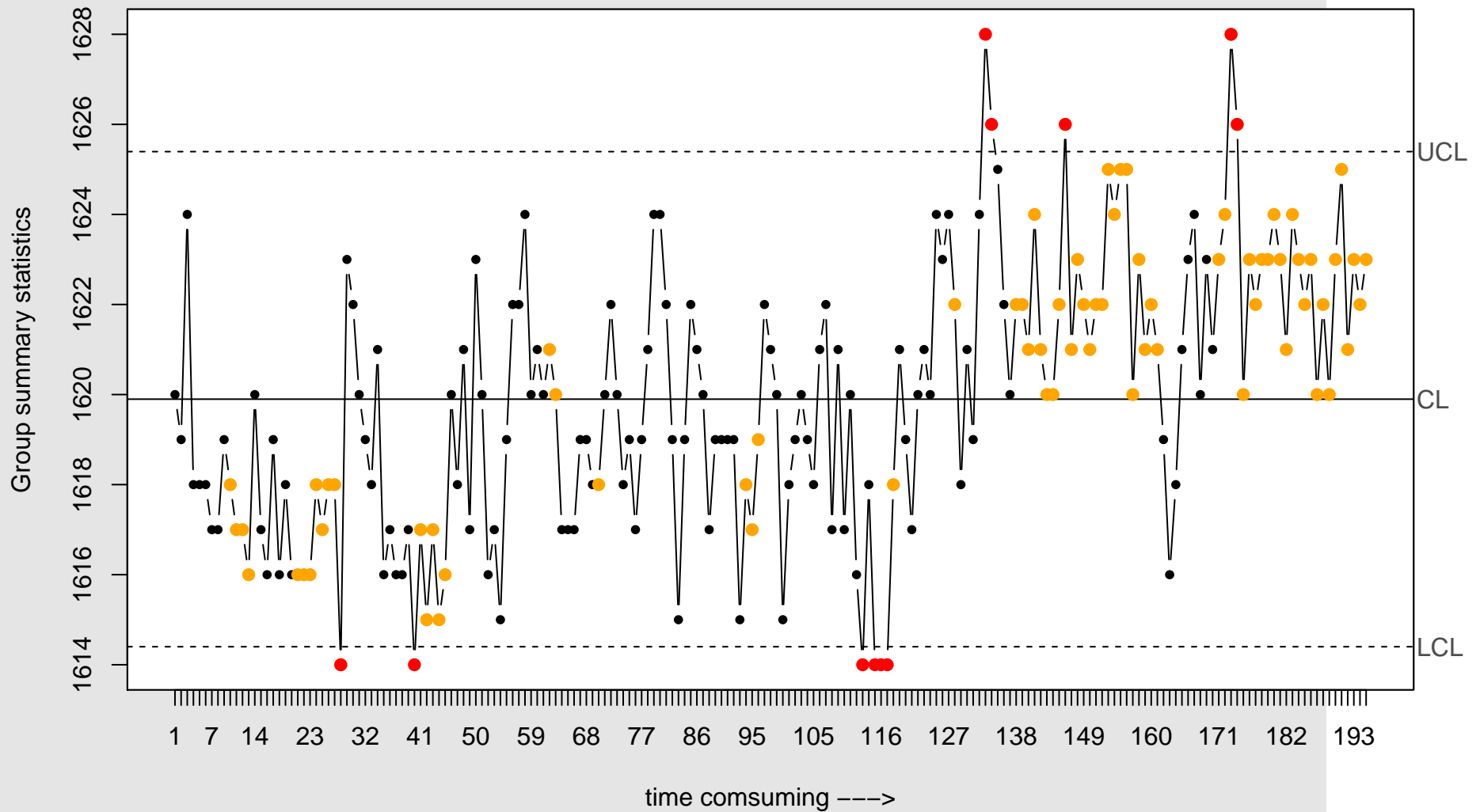
LCL = 1614.372

UCL = 1625.751

Number beyond limits = 9

Number violating runs = 49

200th column point of this product



Number of groups = 195

Center = 1619.897

StdDev = 1.832456

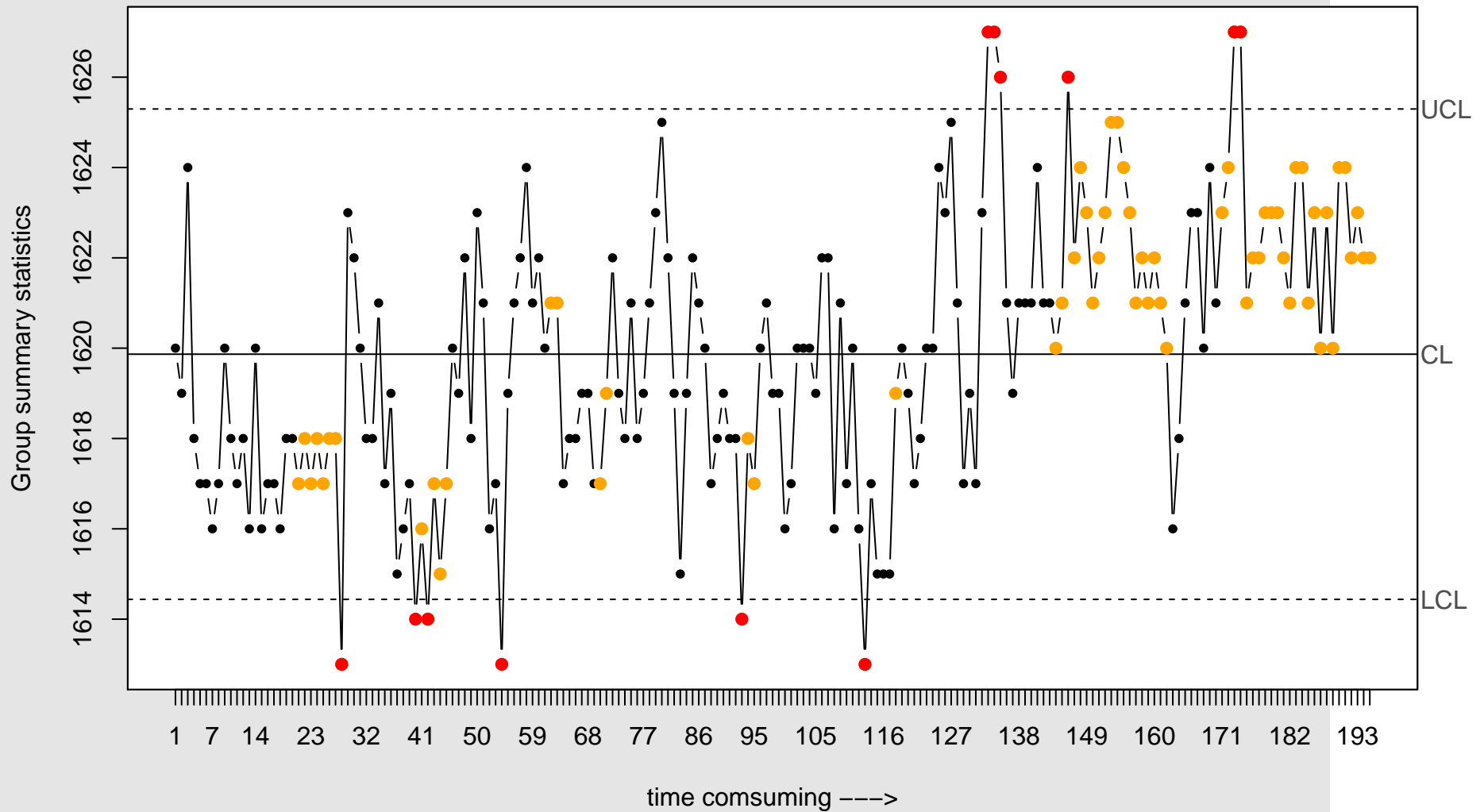
LCL = 1614.4

UCL = 1625.395

Number beyond limits = 11

Number violating runs = 74

201th column point of this product



Number of groups = 195

Center = 1619.867

StdDev = 1.809607

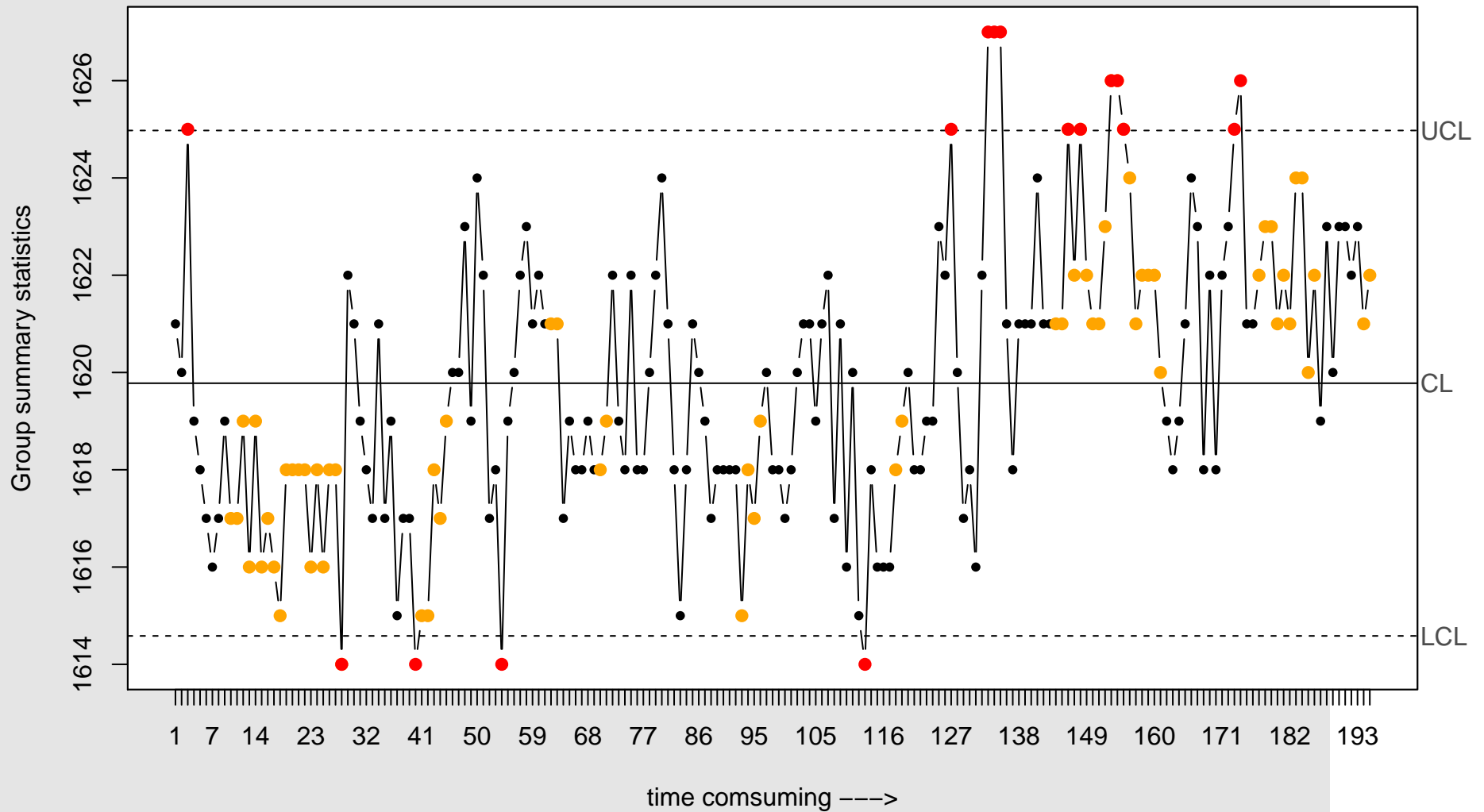
LCL = 1614.438

UCL = 1625.295

Number beyond limits = 12

Number violating runs = 64

202th column point of this product



Number of groups = 195

Center = 1619.779

StdDev = 1.731922

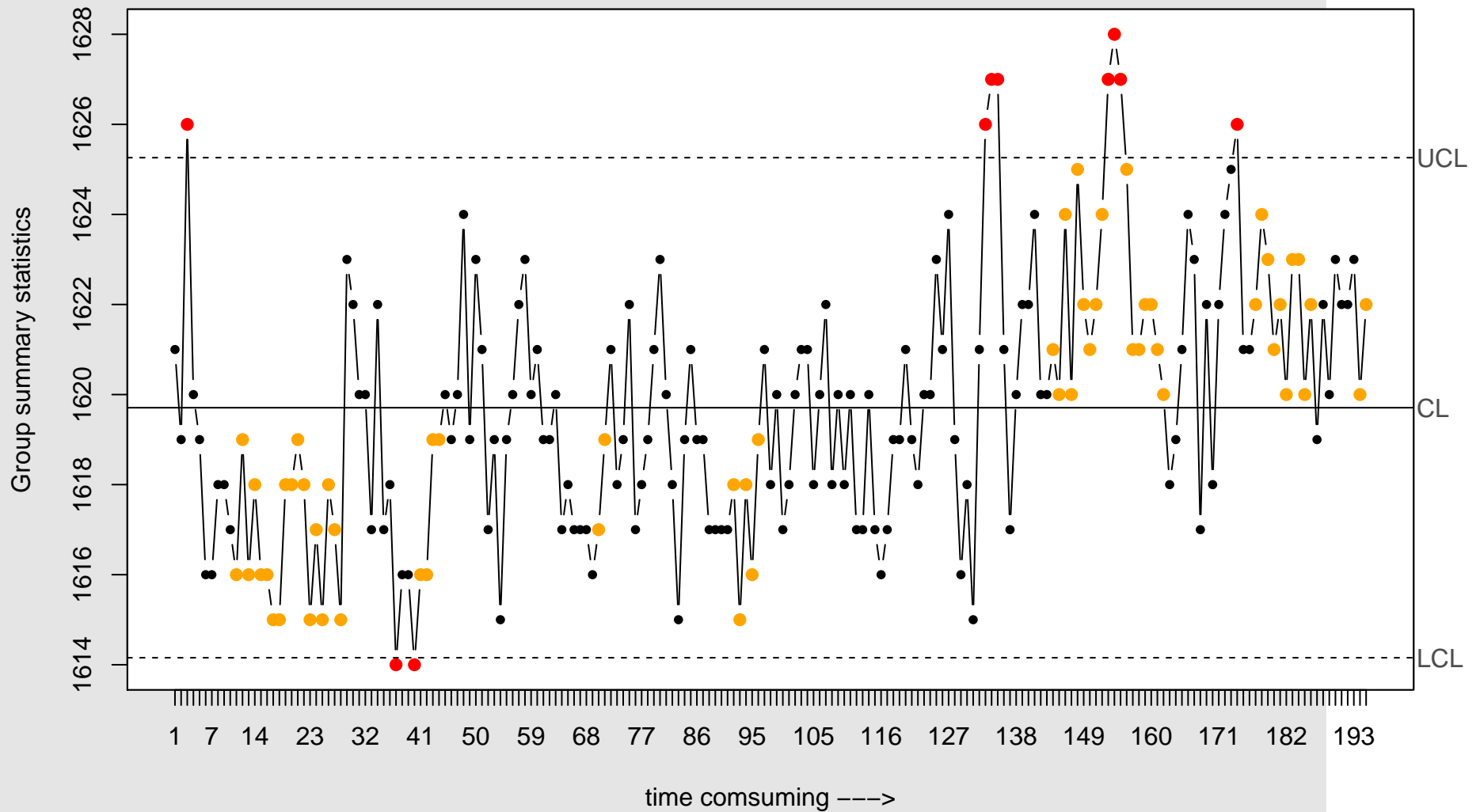
LCL = 1614.584

UCL = 1624.975

Number beyond limits = 16

Number violating runs = 64

203th column point of this product



Number of groups = 195

Center = 1619.708

StdDev = 1.850735

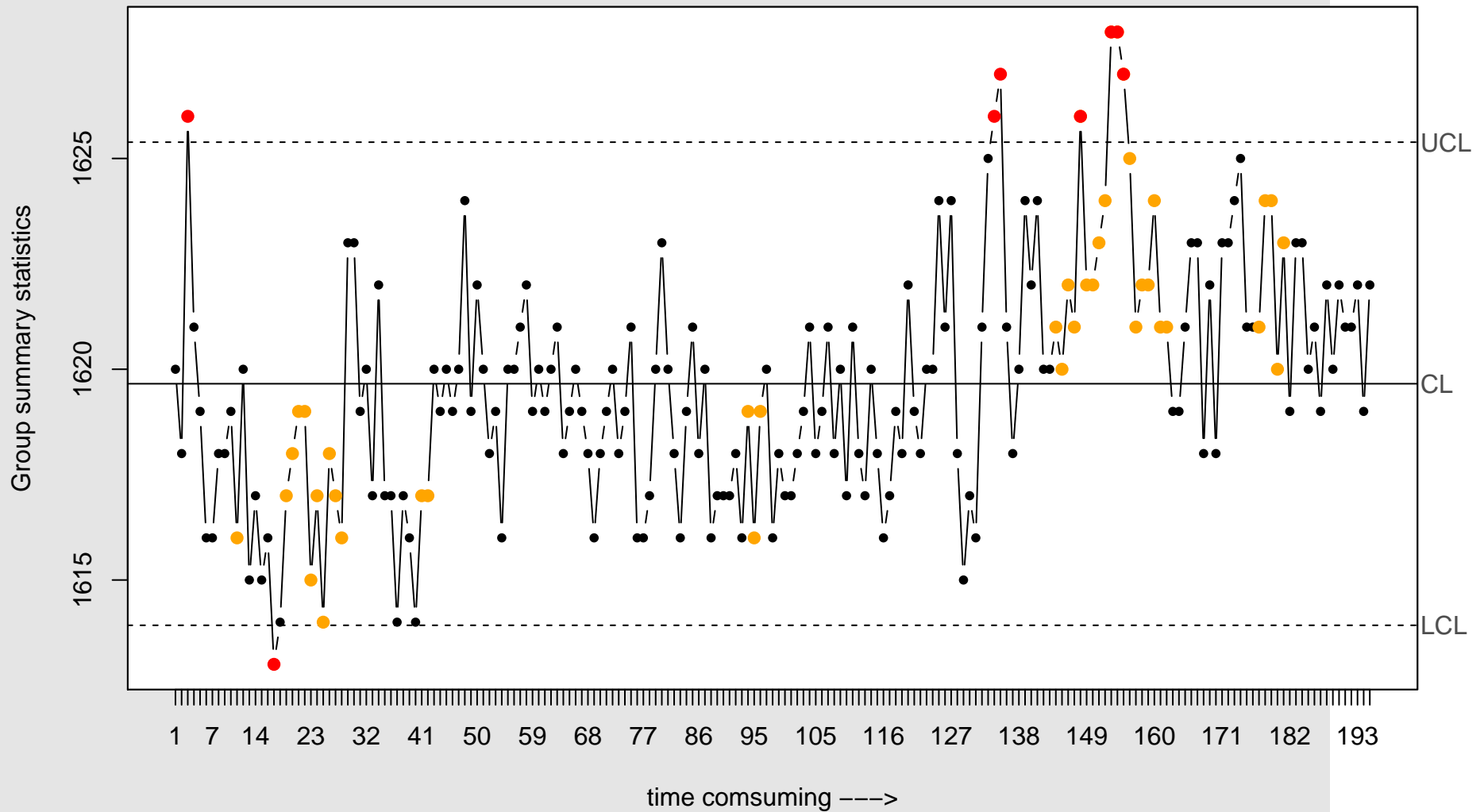
LCL = 1614.155

UCL = 1625.26

Number beyond limits = 10

Number violating runs = 60

204th column point of this product



Number of groups = 195

Center = 1619.656

StdDev = 1.910141

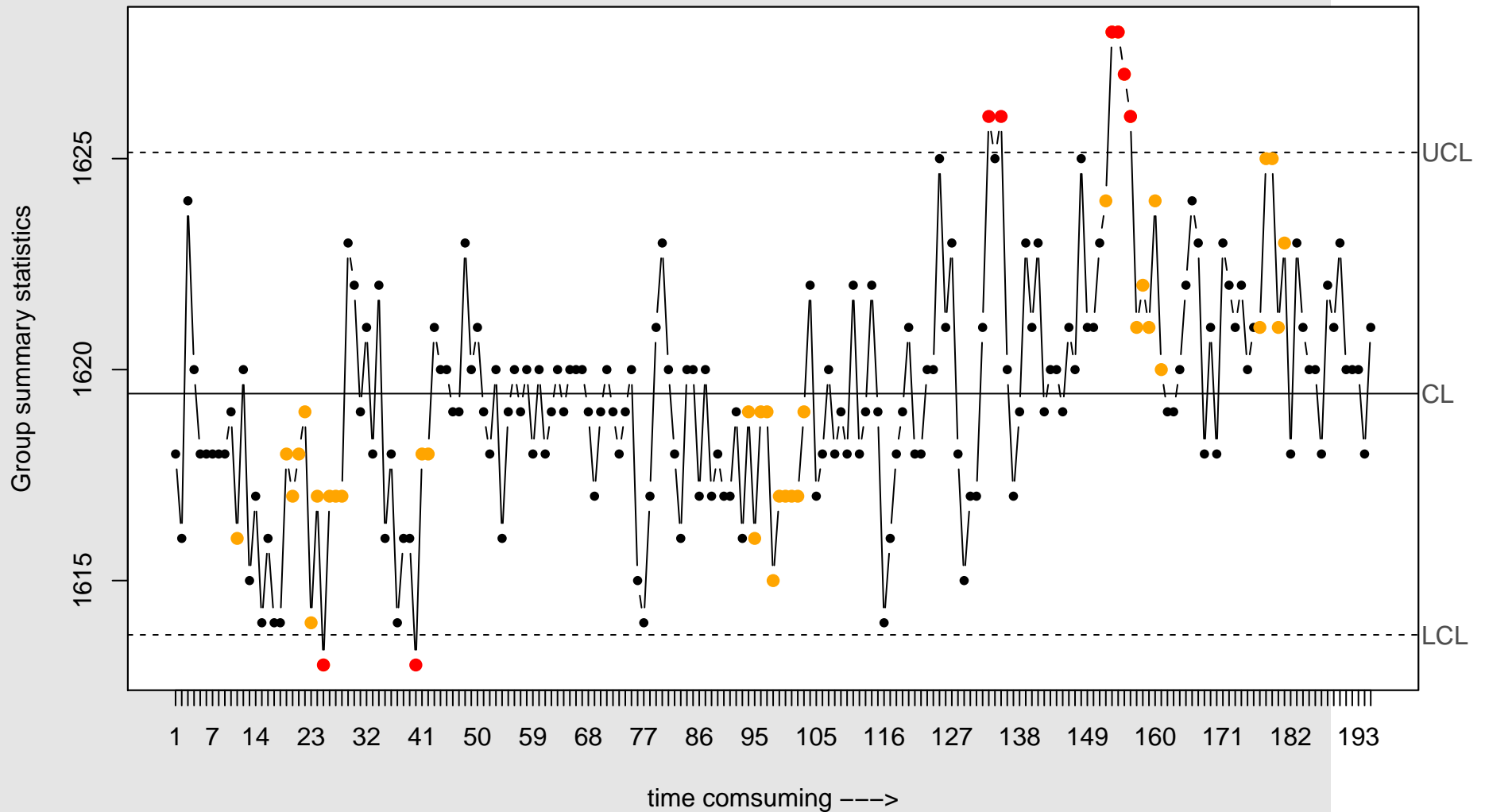
LCL = 1613.926

UCL = 1625.387

Number beyond limits = 8

Number violating runs = 40

205th column point of this product



Number of groups = 195

Center = 1619.431

StdDev = 1.905571

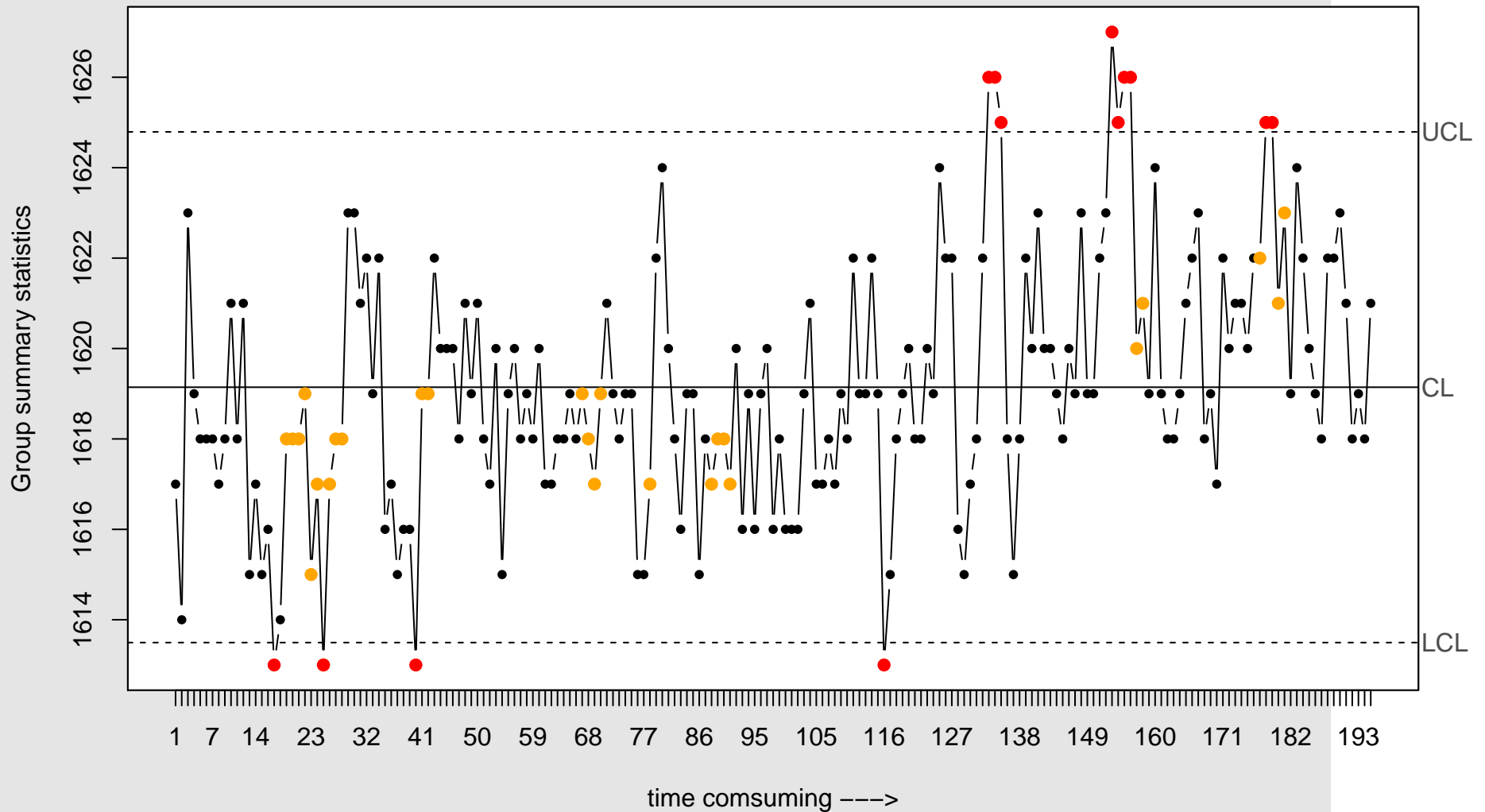
LCL = 1613.714

UCL = 1625.147

Number beyond limits = 8

Number violating runs = 38

206th column point of this product



Number of groups = 195

Center = 1619.144

StdDev = 1.882723

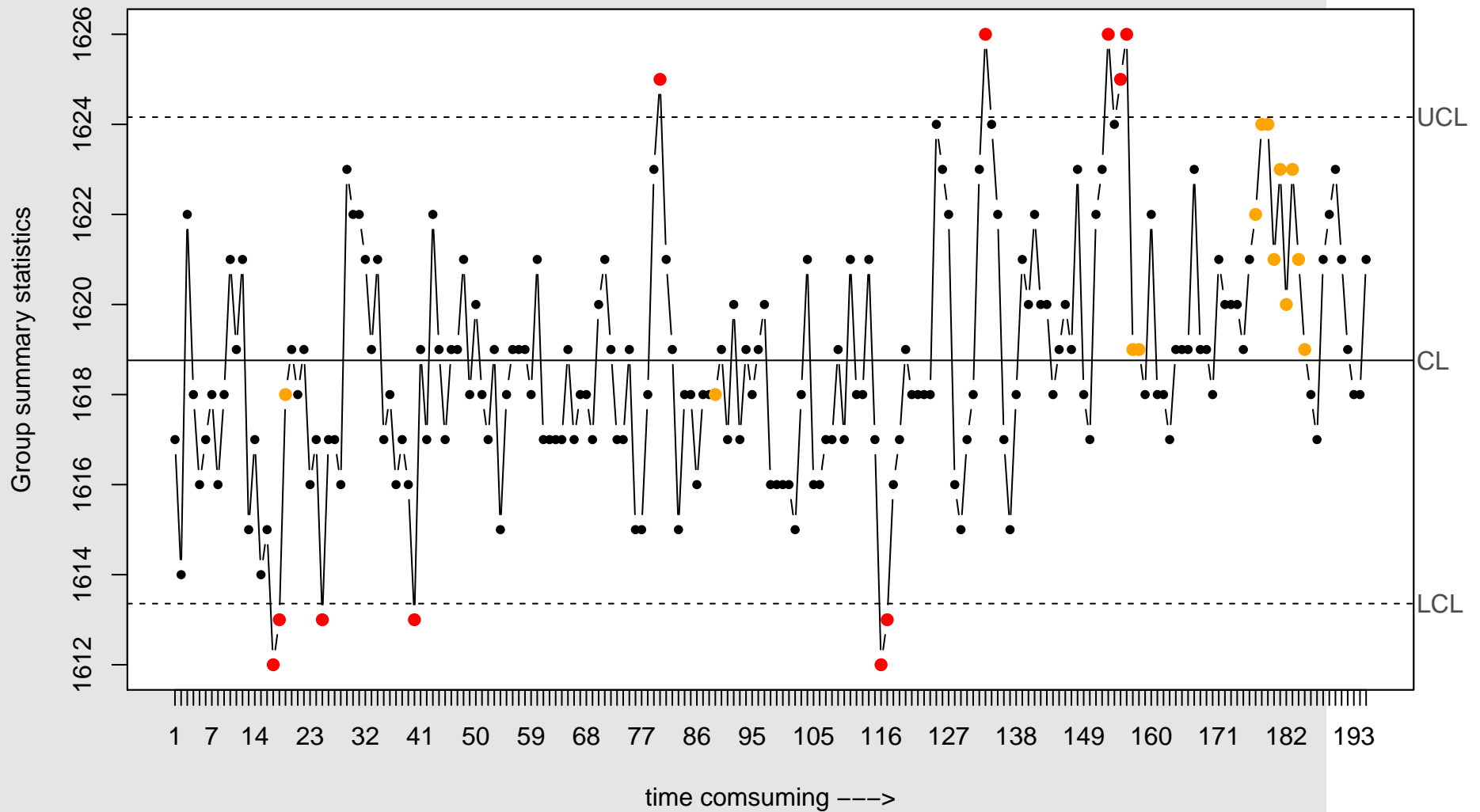
LCL = 1613.495

UCL = 1624.792

Number beyond limits = 13

Number violating runs = 28

207th column point of this product



Number of groups = 195

Center = 1618.759

StdDev = 1.800468

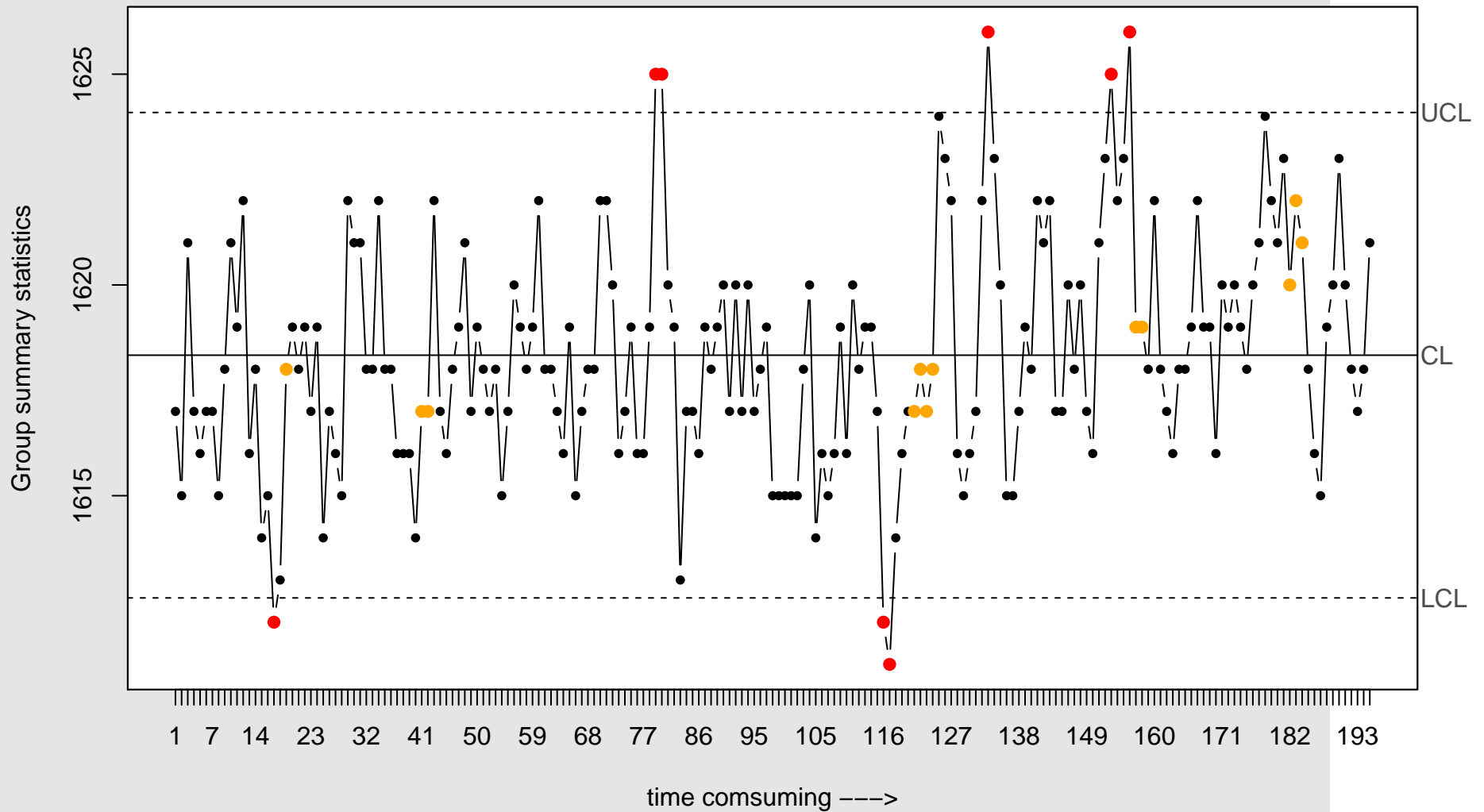
LCL = 1613.358

UCL = 1624.16

Number beyond limits = 11

Number violating runs = 13

208th column point of this product

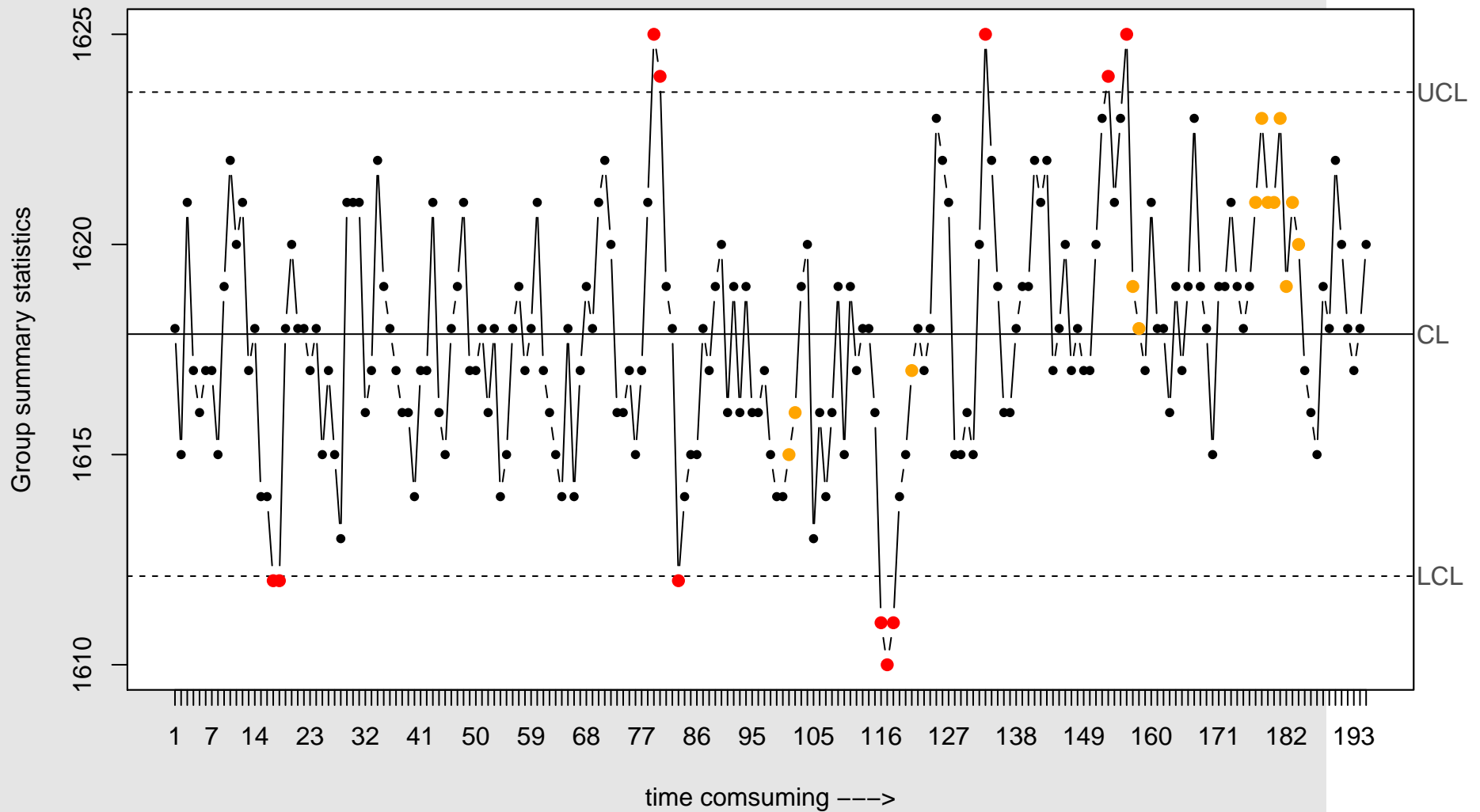


Number of groups = 195
 Center = 1618.333
 StdDev = 1.919281

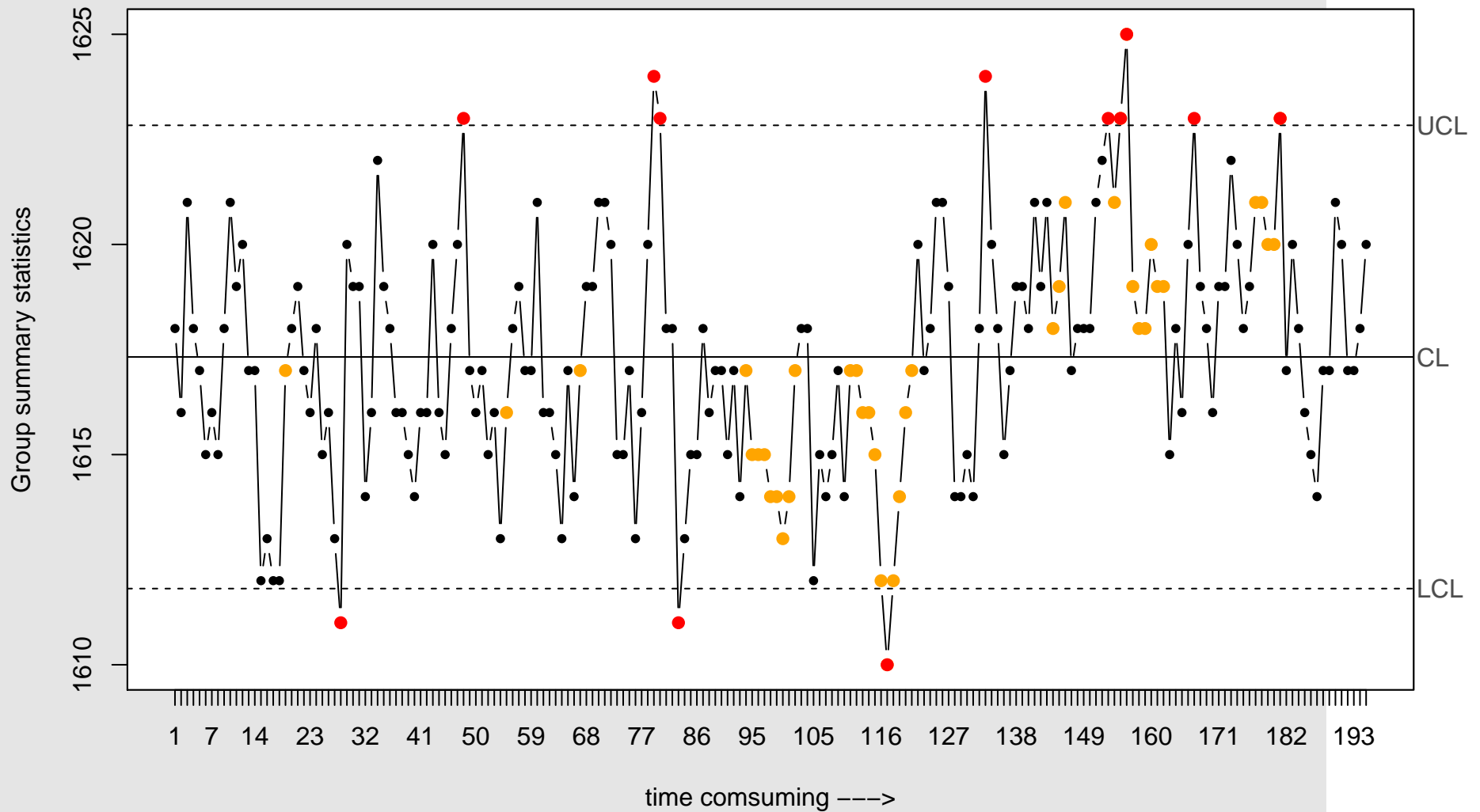
LCL = 1612.575
 UCL = 1624.091

Number beyond limits = 8
 Number violating runs = 12

209th column point of this product



210th column point of this product



Number of groups = 195

Center = 1617.323

StdDev = 1.837026

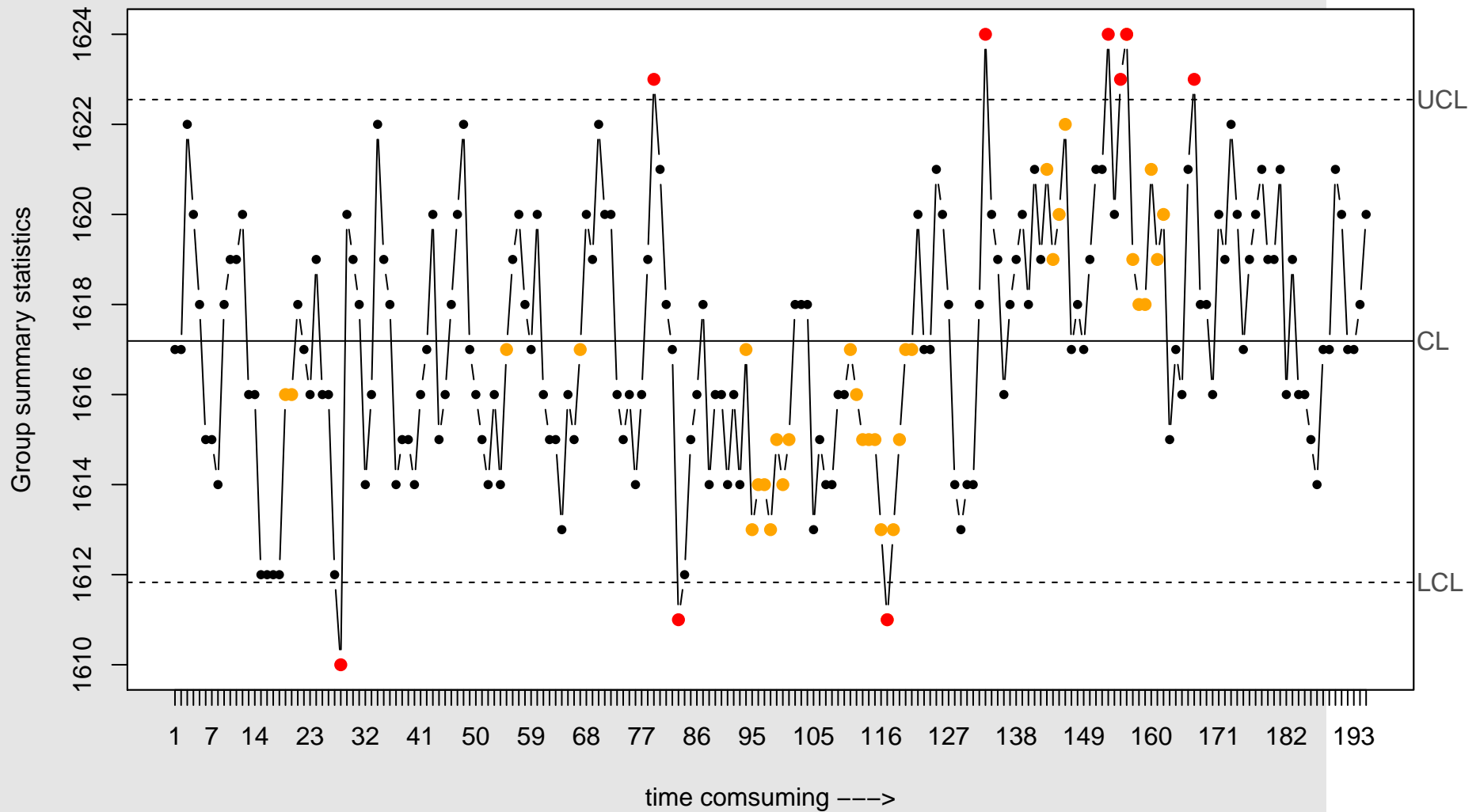
LCL = 1611.812

UCL = 1622.834

Number beyond limits = 12

Number violating runs = 40

211th column point of this product



Number of groups = 195

Center = 1617.19

StdDev = 1.786759

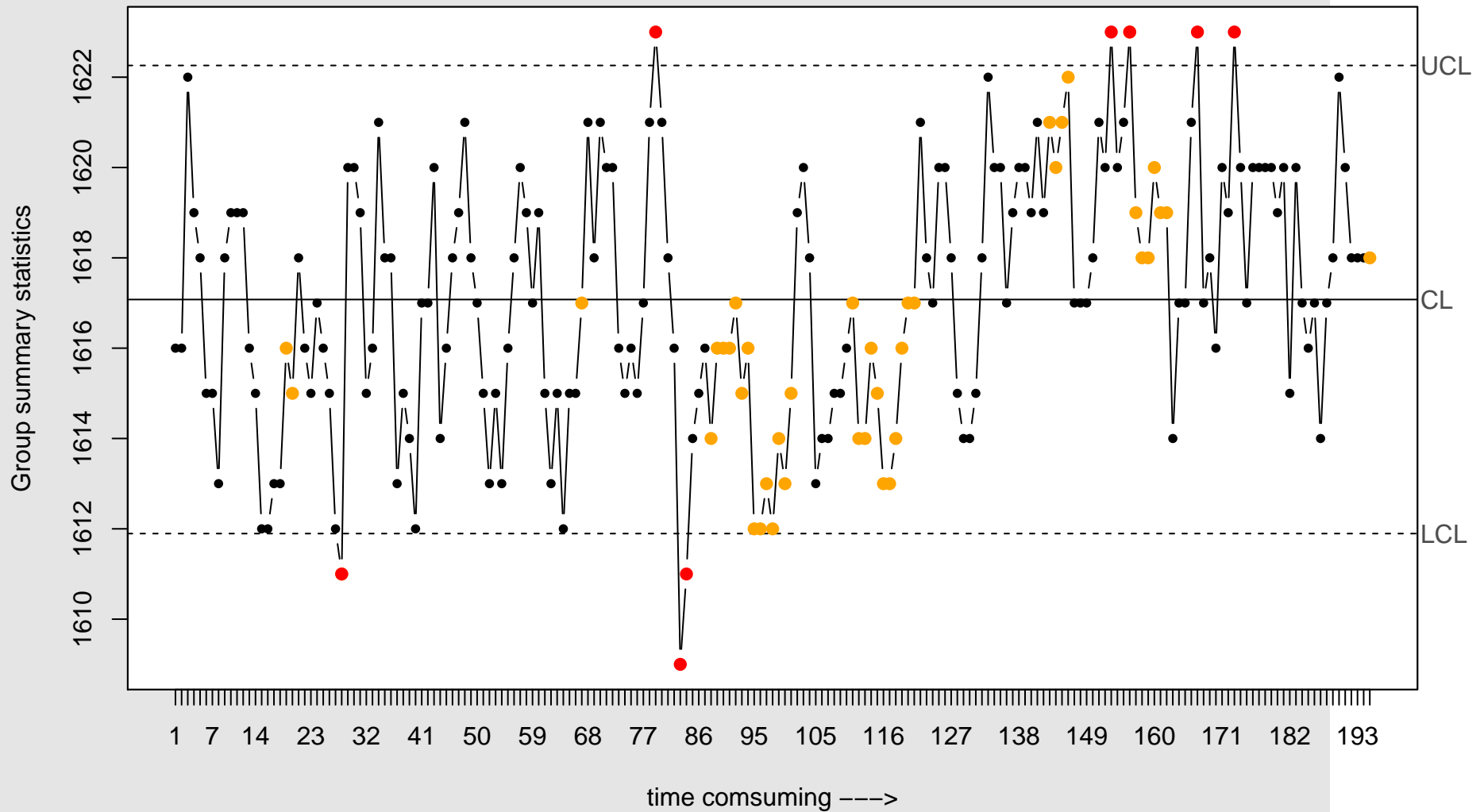
LCL = 1611.829

UCL = 1622.55

Number beyond limits = 9

Number violating runs = 34

212th column point of this product



Number of groups = 195

Center = 1617.077

StdDev = 1.727352

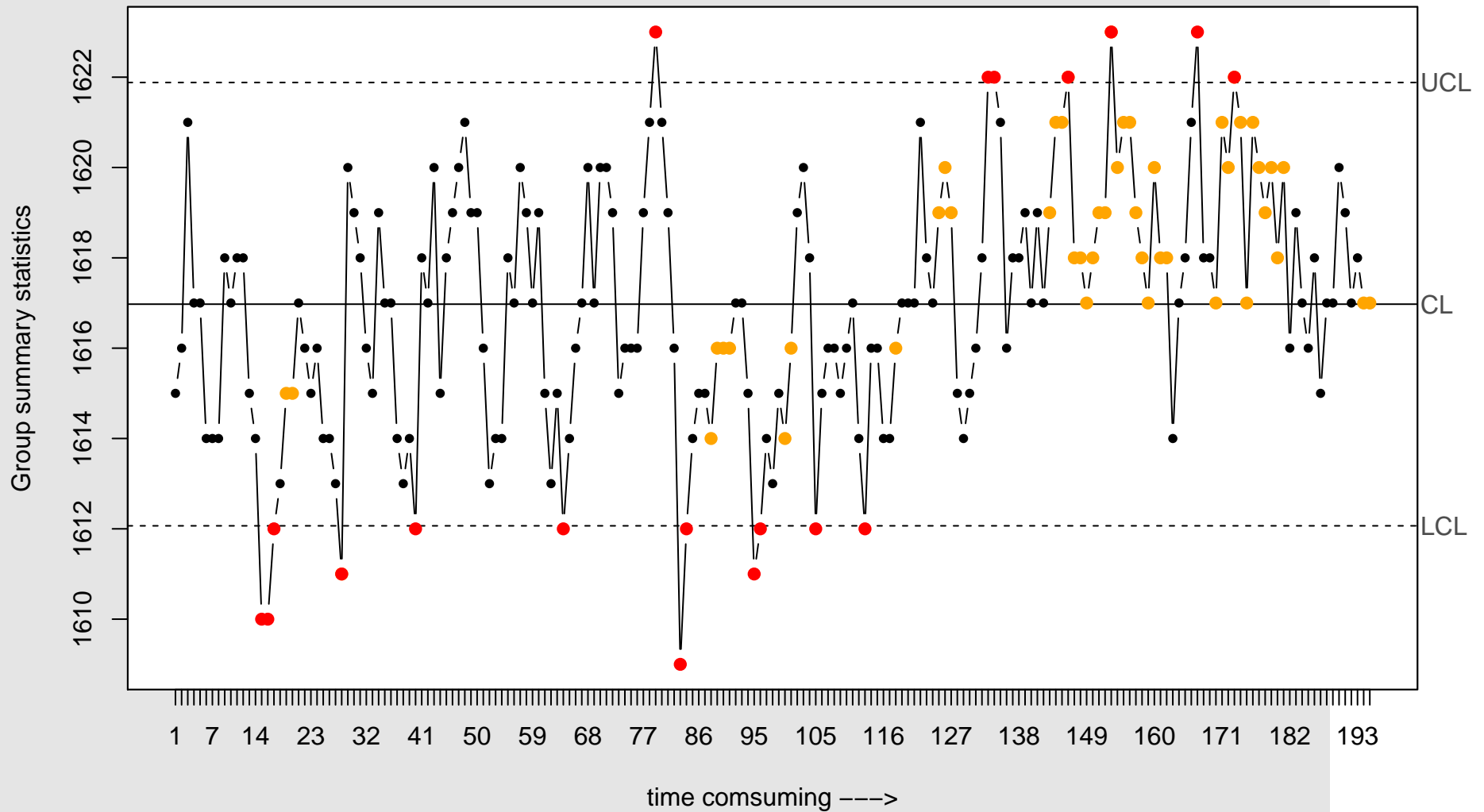
LCL = 1611.895

UCL = 1622.259

Number beyond limits = 8

Number violating runs = 41

213th column point of this product



Number of groups = 195

Center = 1616.974

StdDev = 1.635958

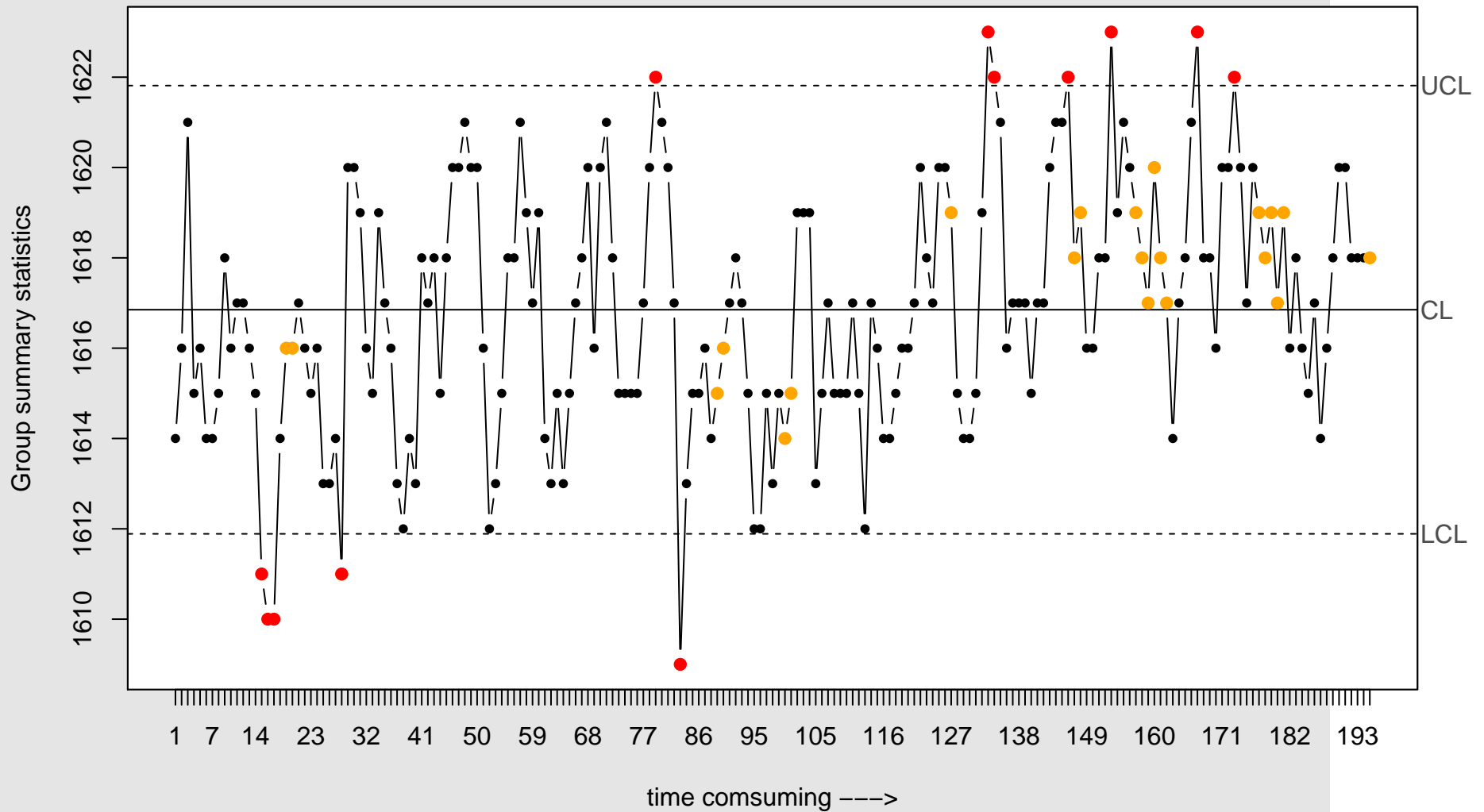
LCL = 1612.066

UCL = 1621.882

Number beyond limits = 19

Number violating runs = 47

214th column point of this product



Number of groups = 195

Center = 1616.851

StdDev = 1.654237

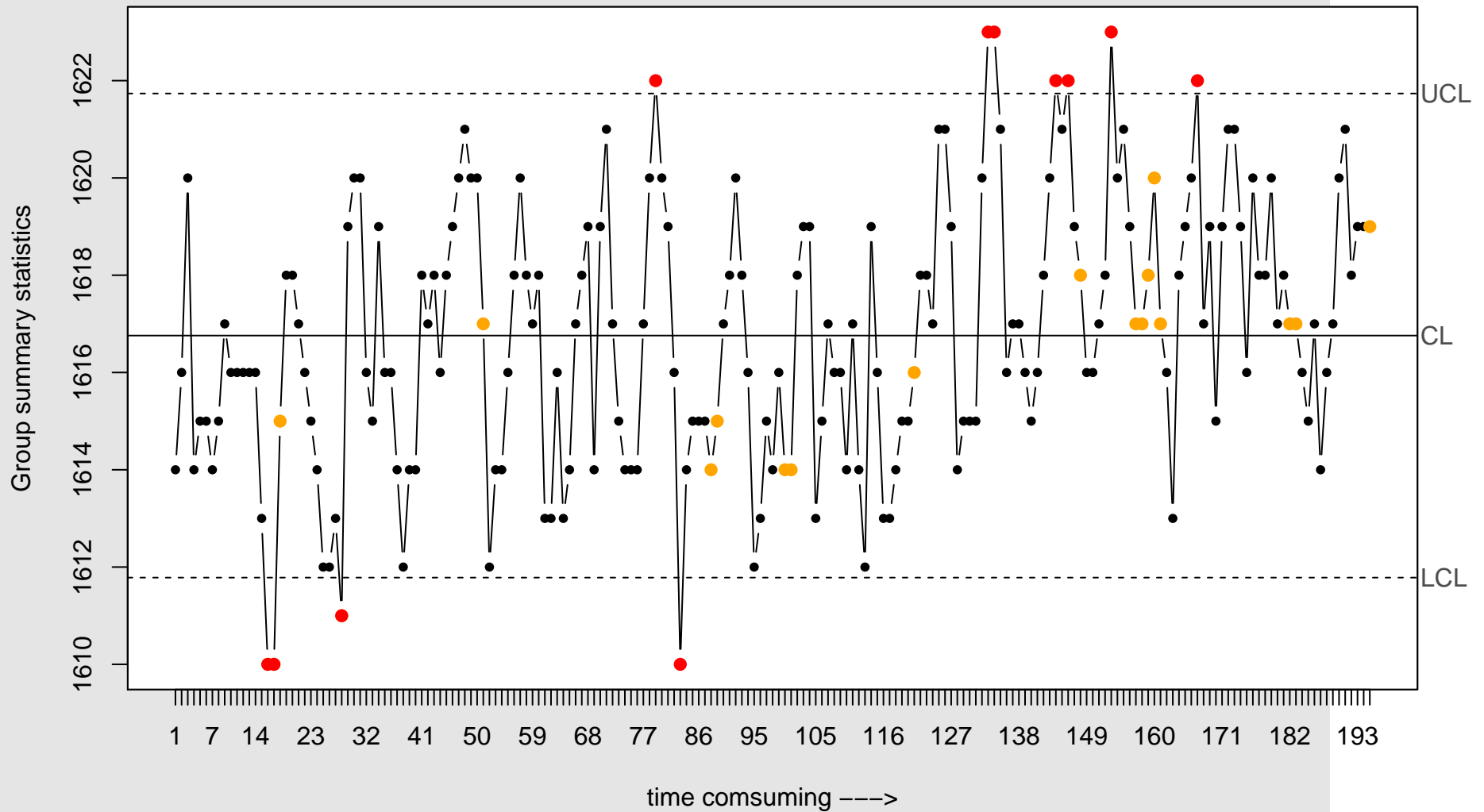
LCL = 1611.889

UCL = 1621.814

Number beyond limits = 12

Number violating runs = 22

215th column point of this product



Number of groups = 195

Center = 1616.759

StdDev = 1.658807

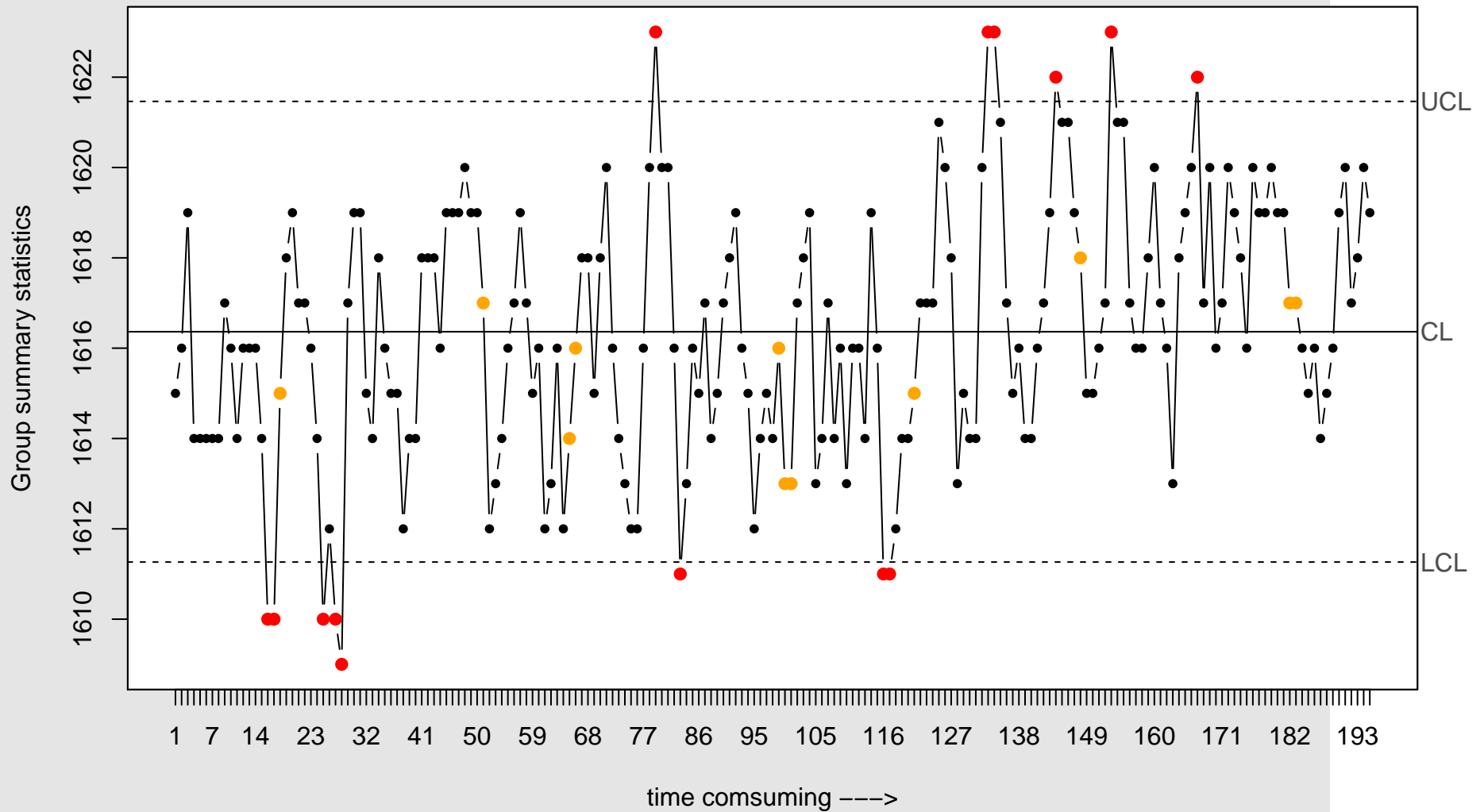
LCL = 1611.783

UCL = 1621.735

Number beyond limits = 11

Number violating runs = 19

216th column point of this product



Number of groups = 195

Center = 1616.364

StdDev = 1.699934

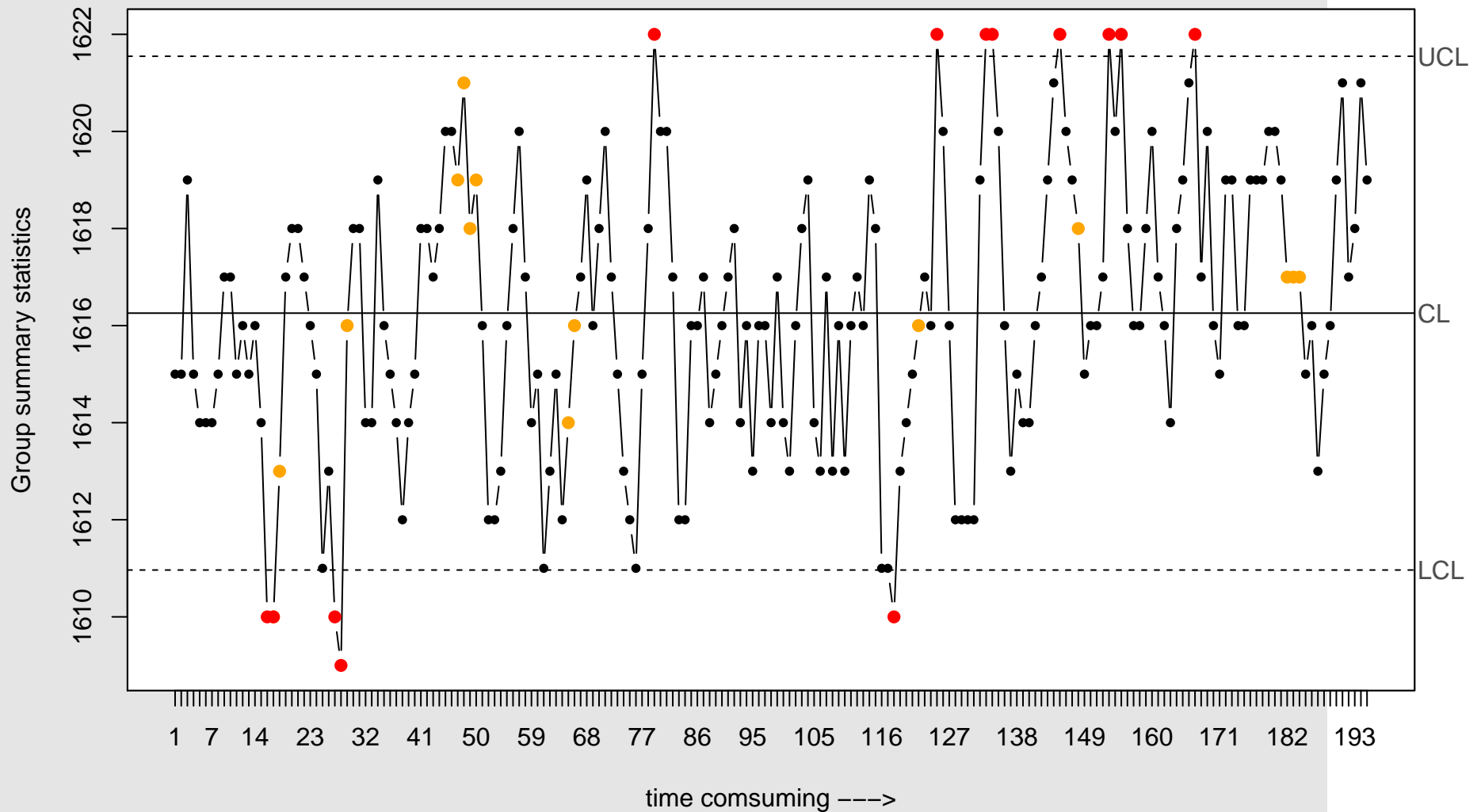
LCL = 1611.264

UCL = 1621.464

Number beyond limits = 14

Number violating runs = 13

217th column point of this product



Number of groups = 195

Center = 1616.256

StdDev = 1.76391

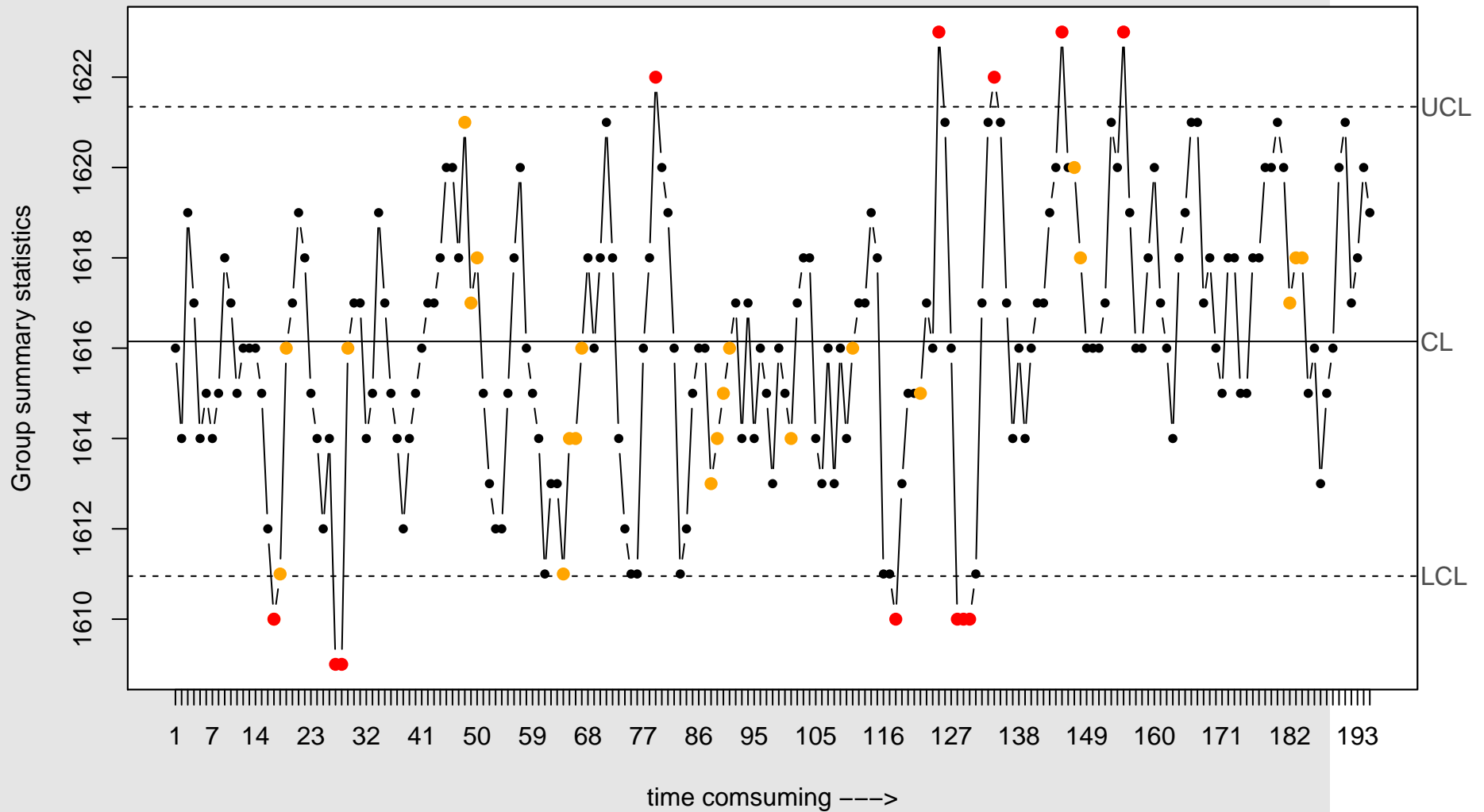
LCL = 1610.965

UCL = 1621.548

Number beyond limits = 13

Number violating runs = 14

218th column point of this product



Number of groups = 195

Center = 1616.149

StdDev = 1.731922

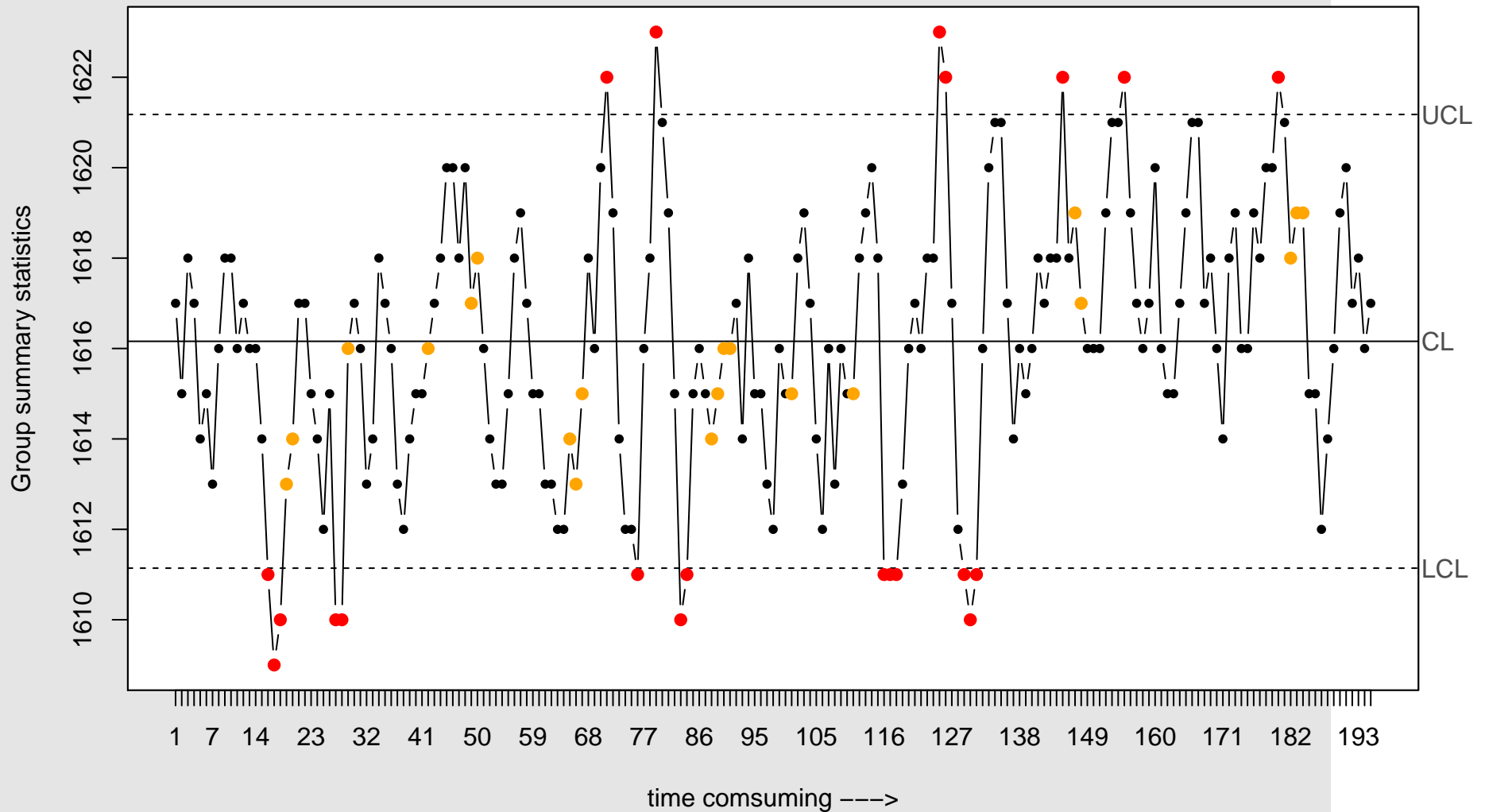
LCL = 1610.953

UCL = 1621.344

Number beyond limits = 12

Number violating runs = 23

219th column point of this product



Number of groups = 195

Center = 1616.159

StdDev = 1.672516

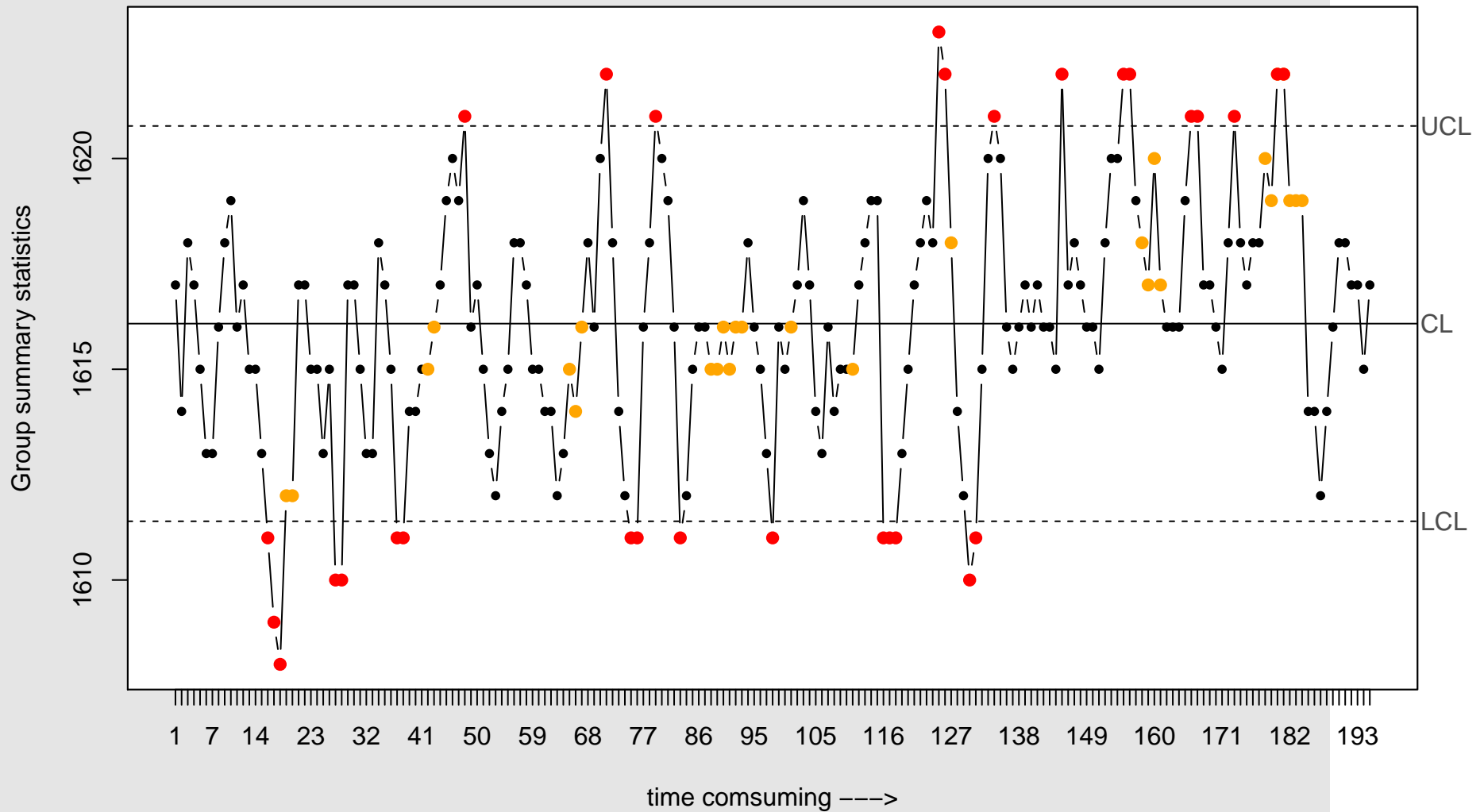
LCL = 1611.141

UCL = 1621.177

Number beyond limits = 21

Number violating runs = 20

220th column point of this product



Number of groups = 195

Center = 1616.082

StdDev = 1.562843

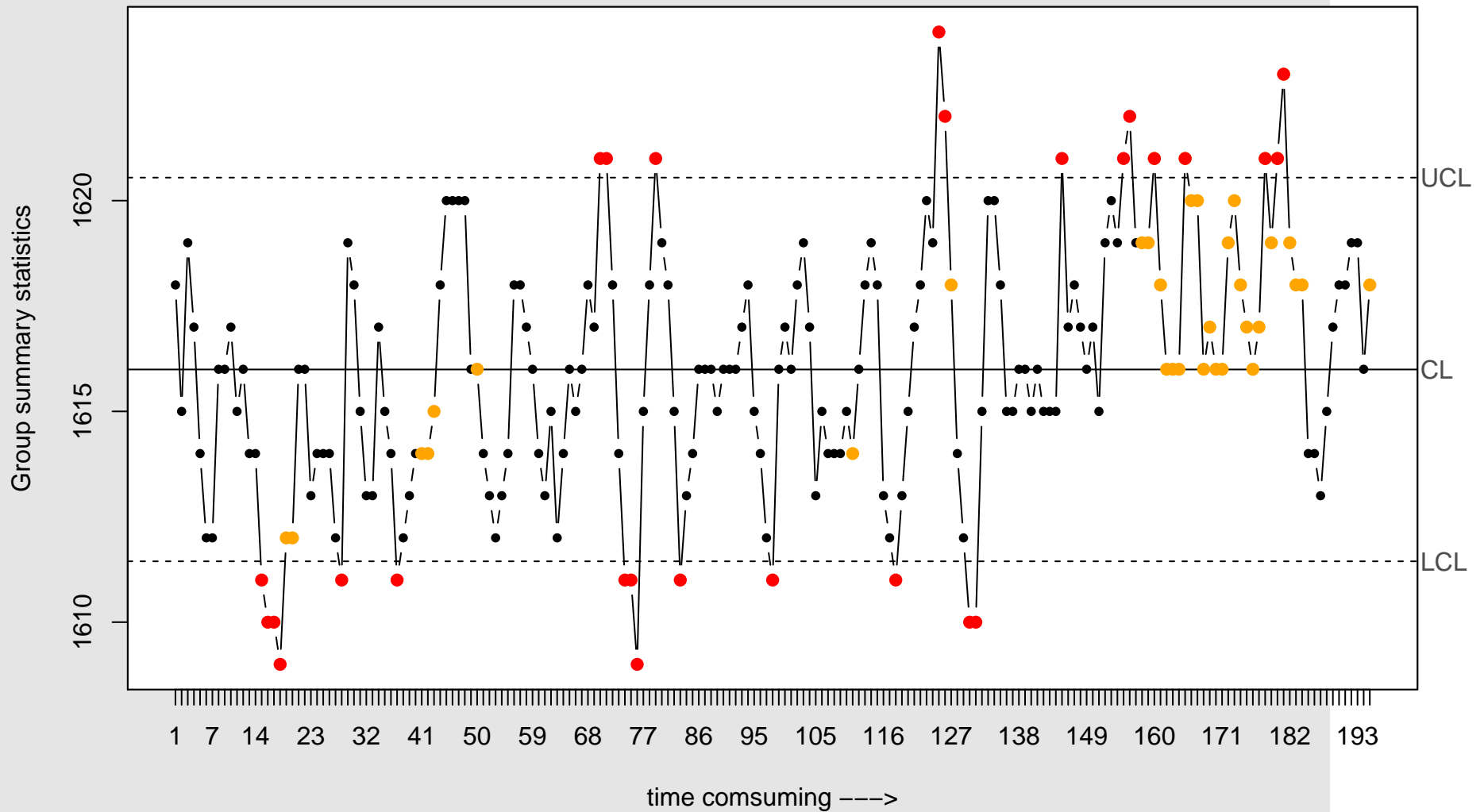
LCL = 1611.394

UCL = 1620.771

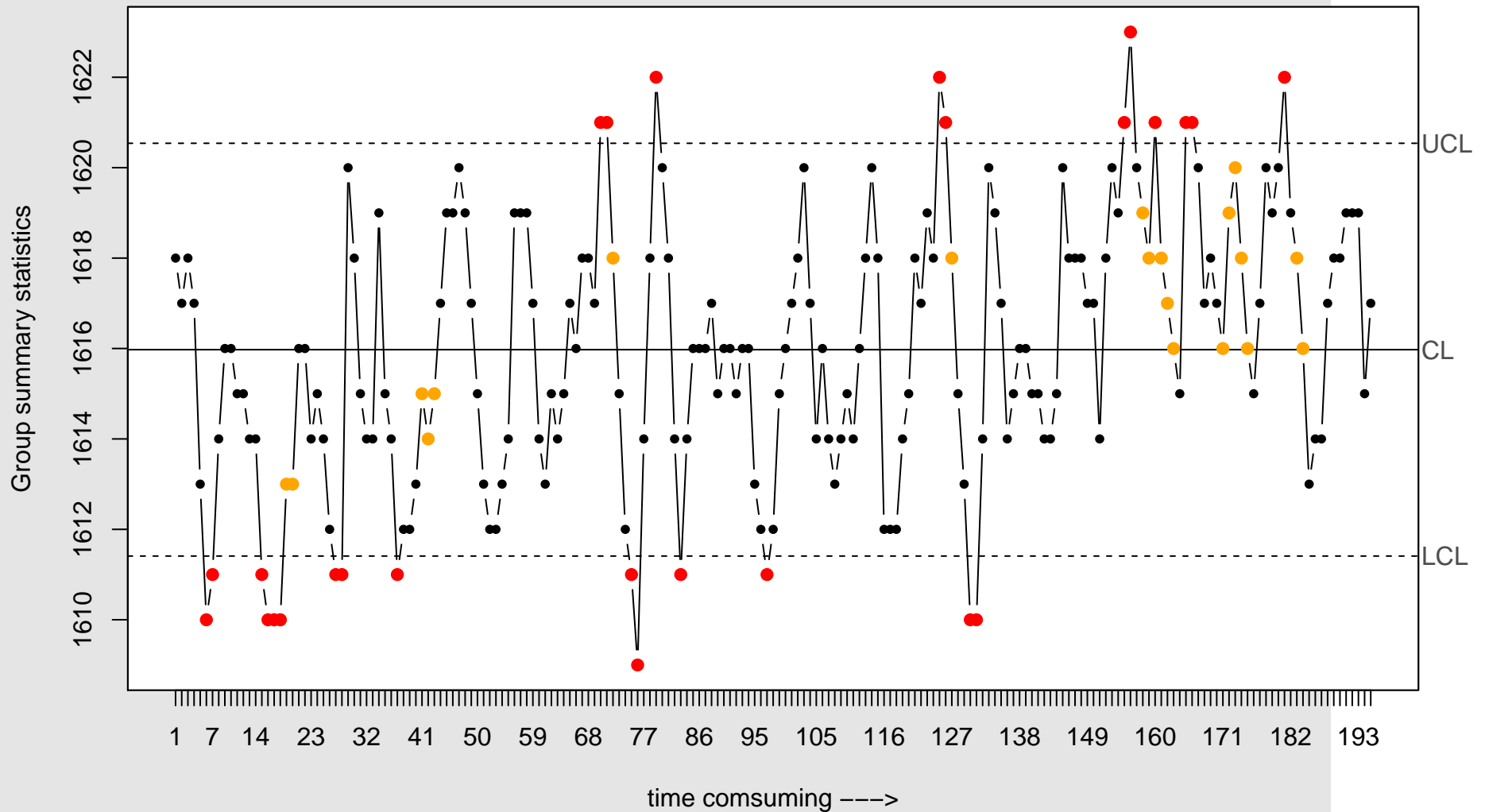
Number beyond limits = 30

Number violating runs = 27

221th column point of this product



222th column point of this product



Number of groups = 195

Center = 1615.974

StdDev = 1.521715

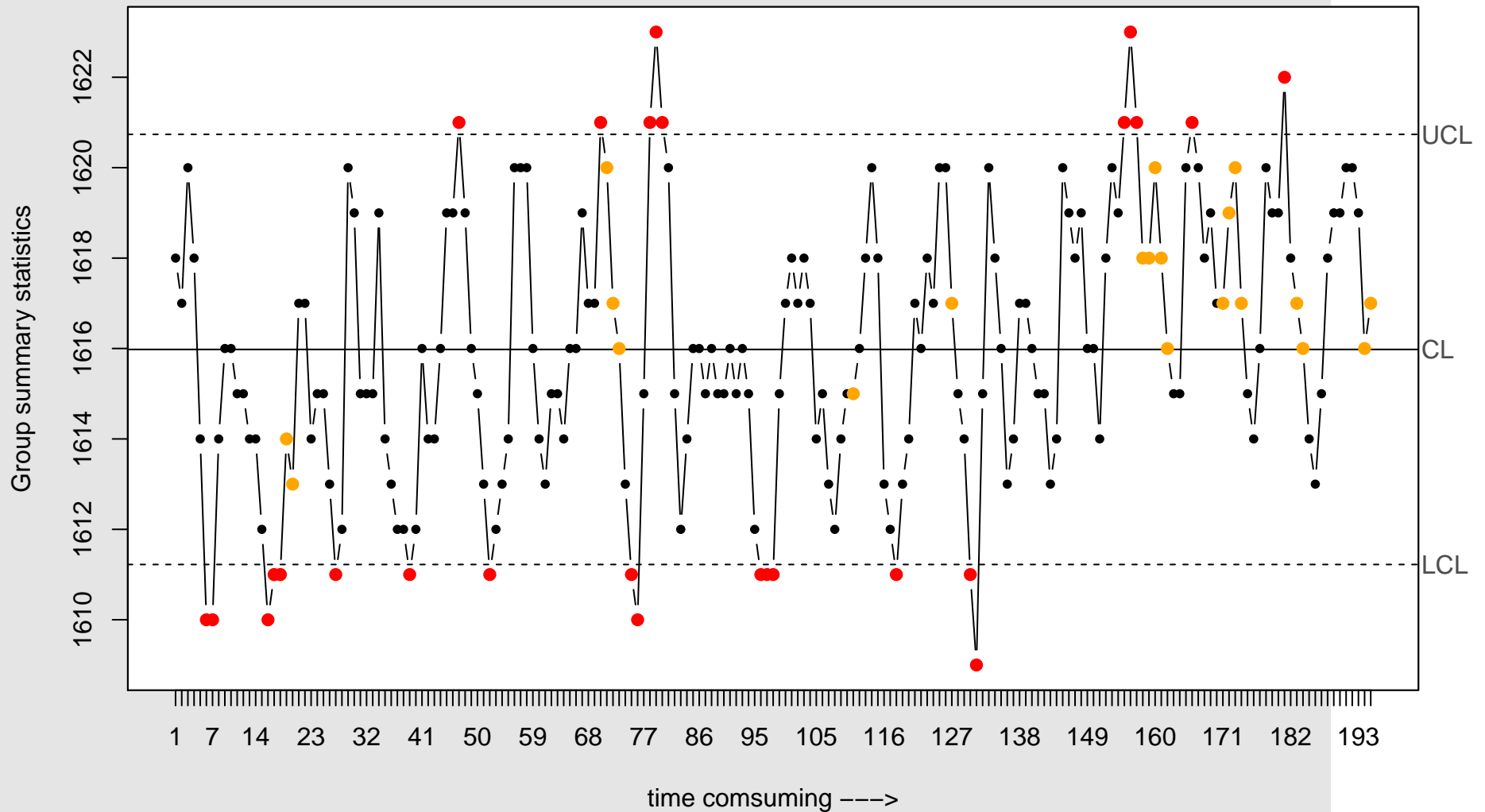
LCL = 1611.409

UCL = 1620.54

Number beyond limits = 26

Number violating runs = 23

223th column point of this product



Number of groups = 195

Center = 1615.979

StdDev = 1.585691

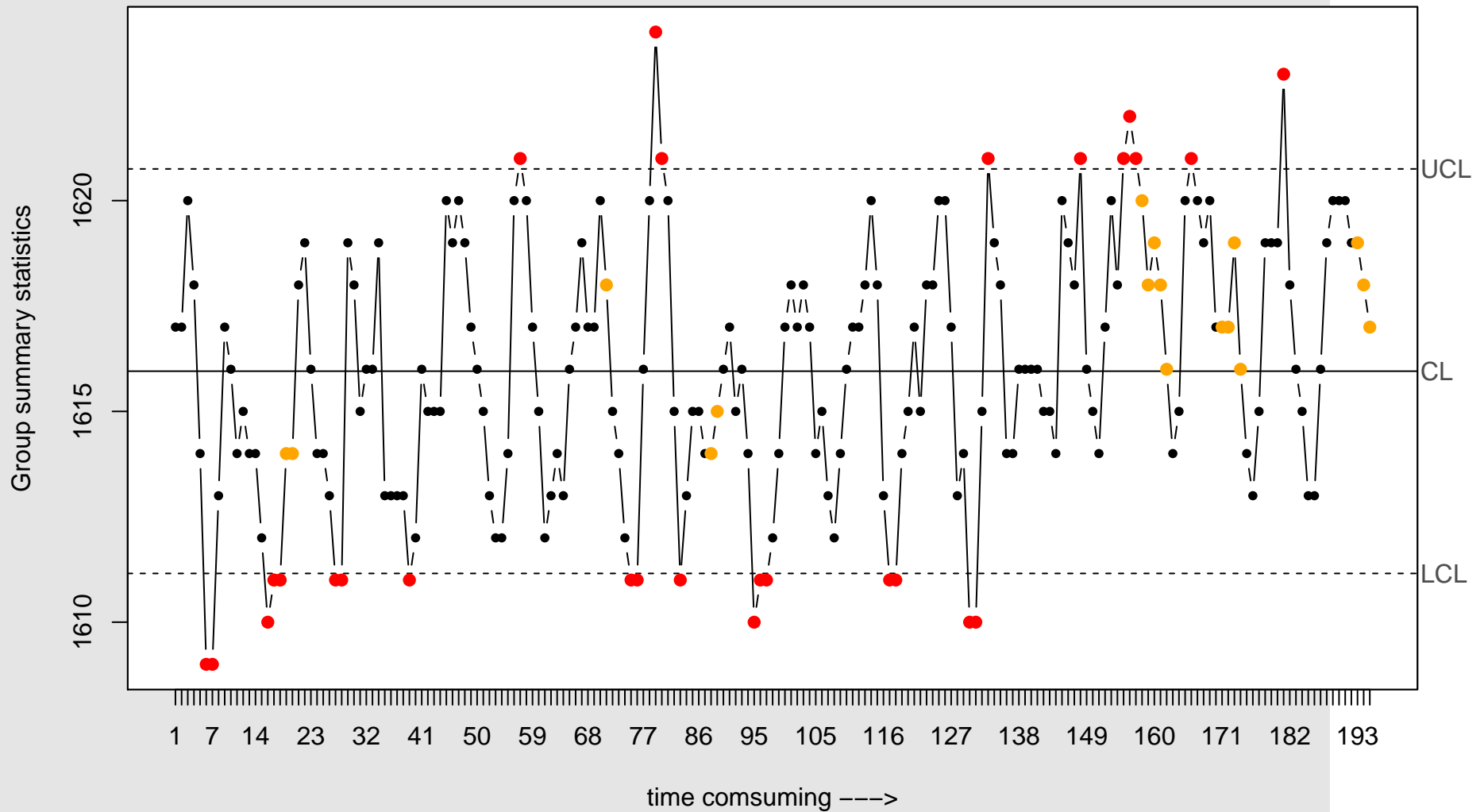
LCL = 1611.222

UCL = 1620.737

Number beyond limits = 26

Number violating runs = 22

224th column point of this product

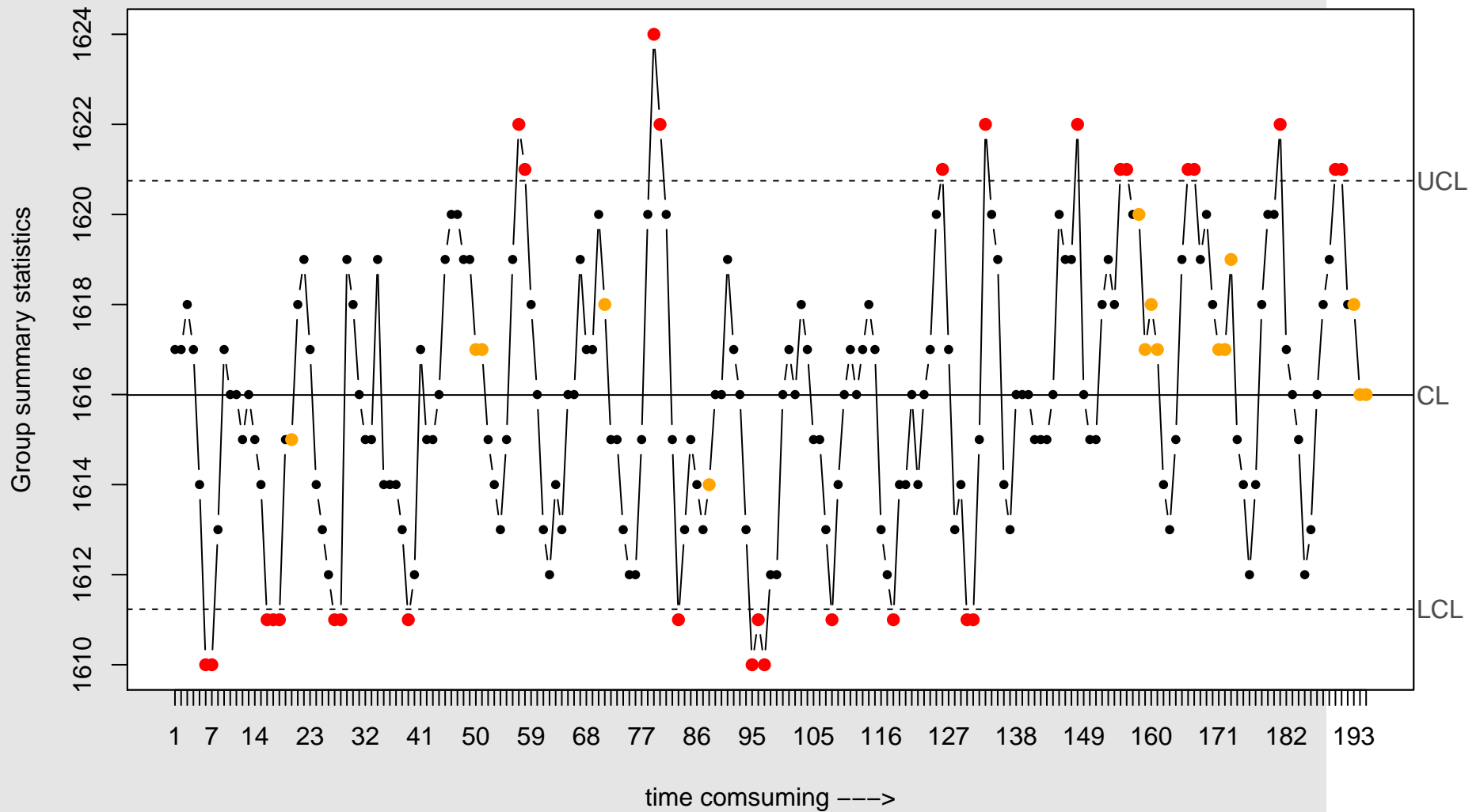


Number of groups = 195
 Center = 1615.954
 StdDev = 1.5994

LCL = 1611.156
 UCL = 1620.752

Number beyond limits = 28
 Number violating runs = 19

225th column point of this product



Number of groups = 195

Center = 1615.99

StdDev = 1.585691

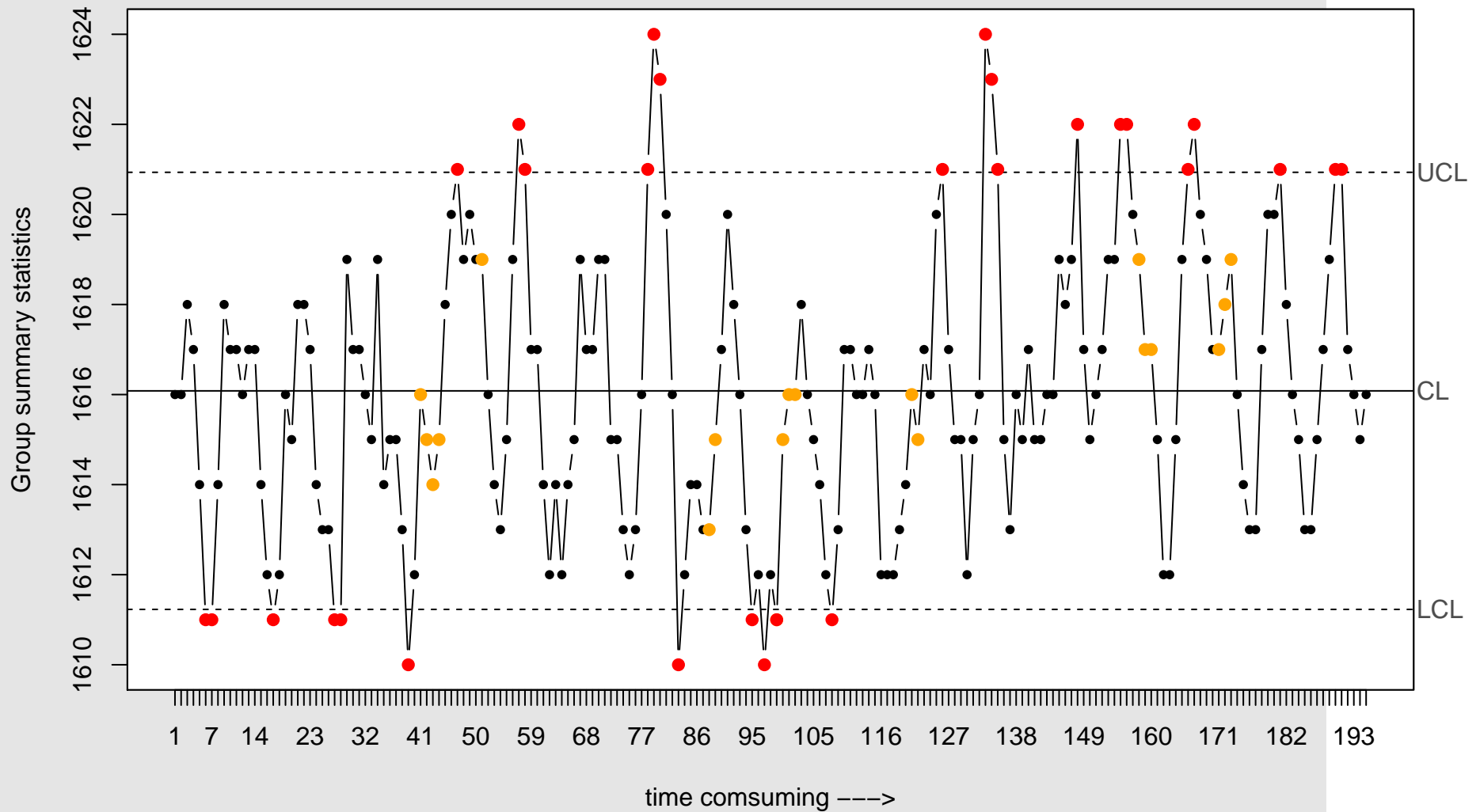
LCL = 1611.233

UCL = 1620.747

Number beyond limits = 30

Number violating runs = 15

226th column point of this product



Number of groups = 195

Center = 1616.082

StdDev = 1.617679

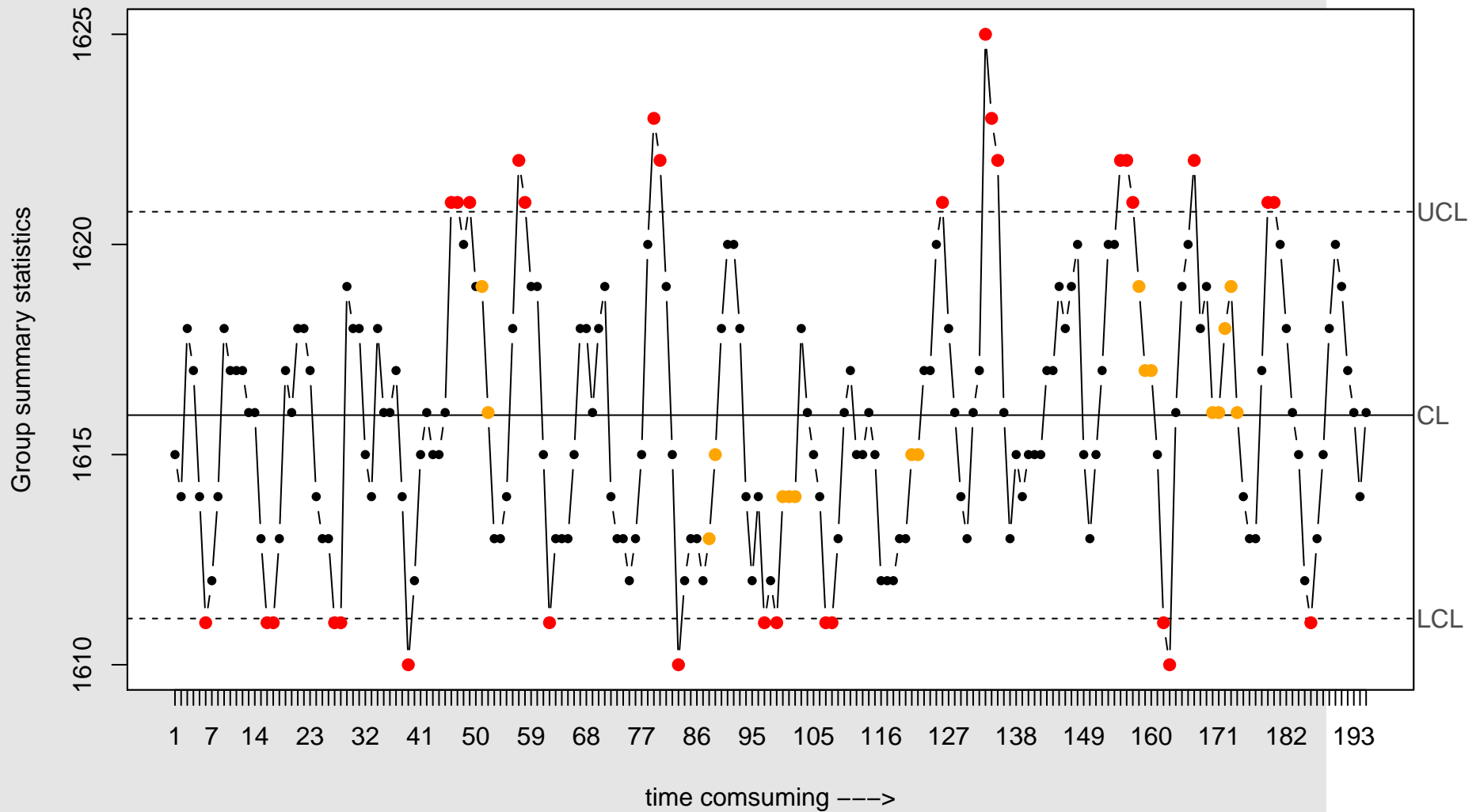
LCL = 1611.229

UCL = 1620.935

Number beyond limits = 29

Number violating runs = 19

227th column point of this product

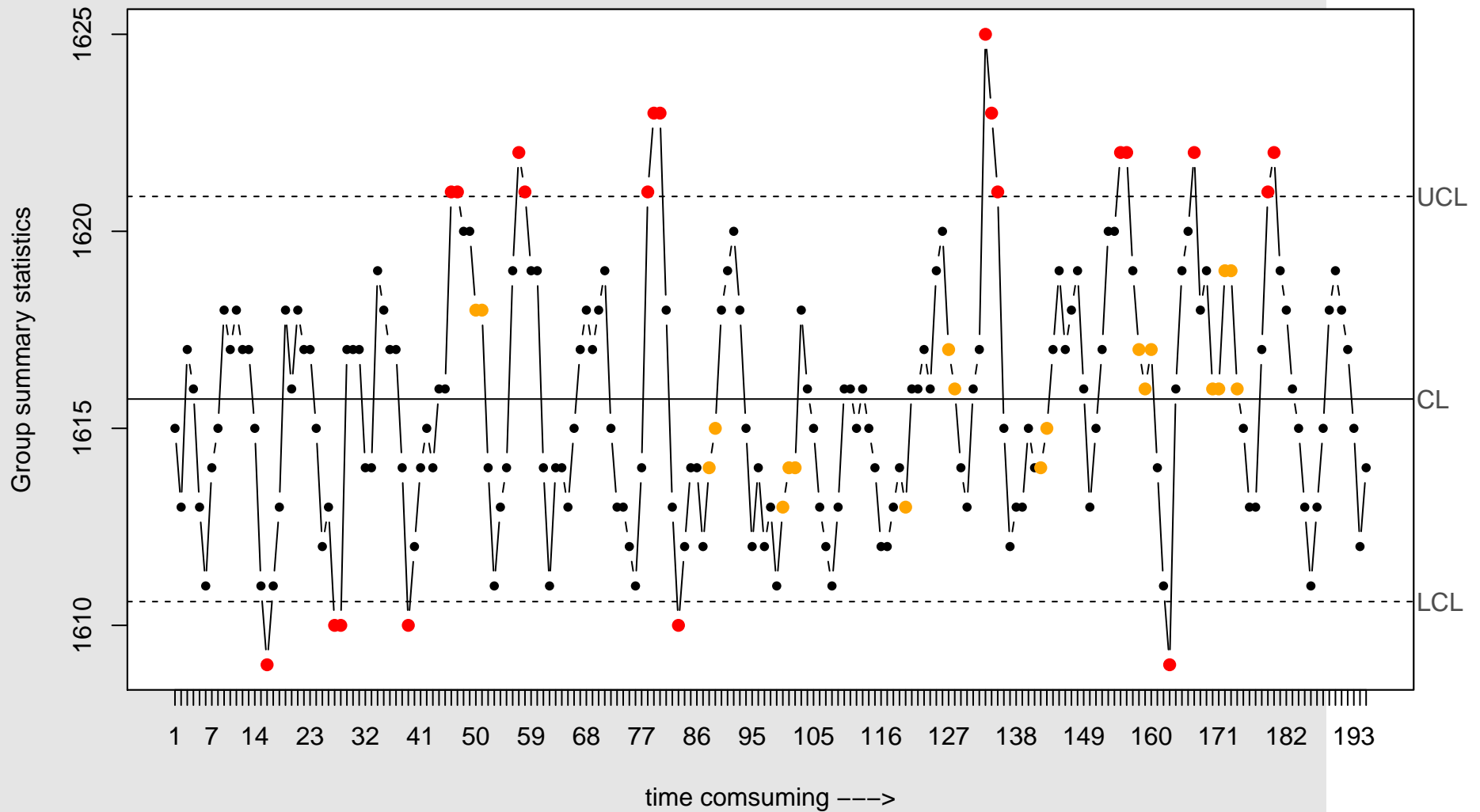


Number of groups = 195
 Center = 1615.938
 StdDev = 1.61311

LCL = 1611.099
 UCL = 1620.778

Number beyond limits = 32
 Number violating runs = 17

228th column point of this product



Number of groups = 195

Center = 1615.744

StdDev = 1.713643

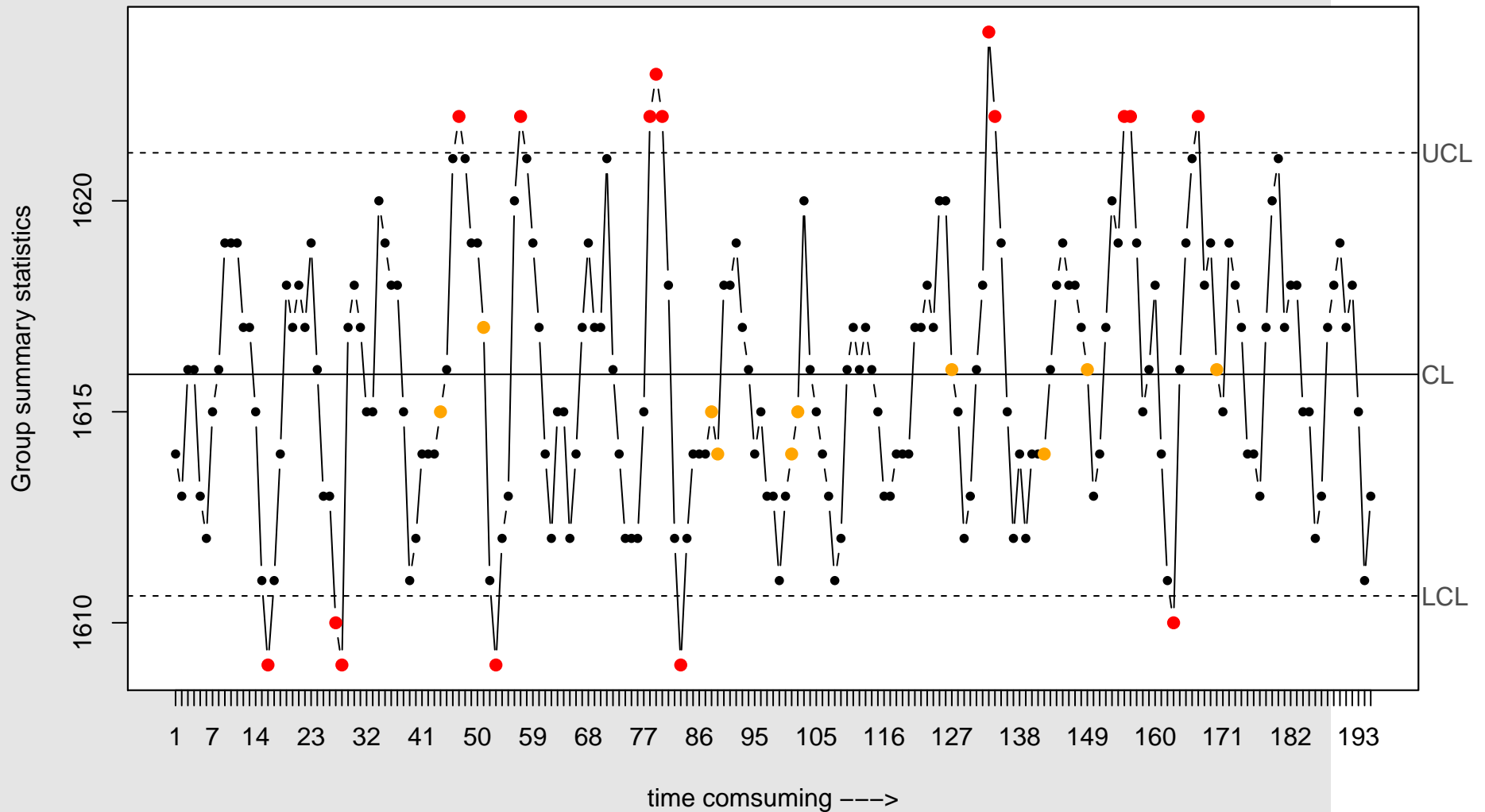
LCL = 1610.603

UCL = 1620.885

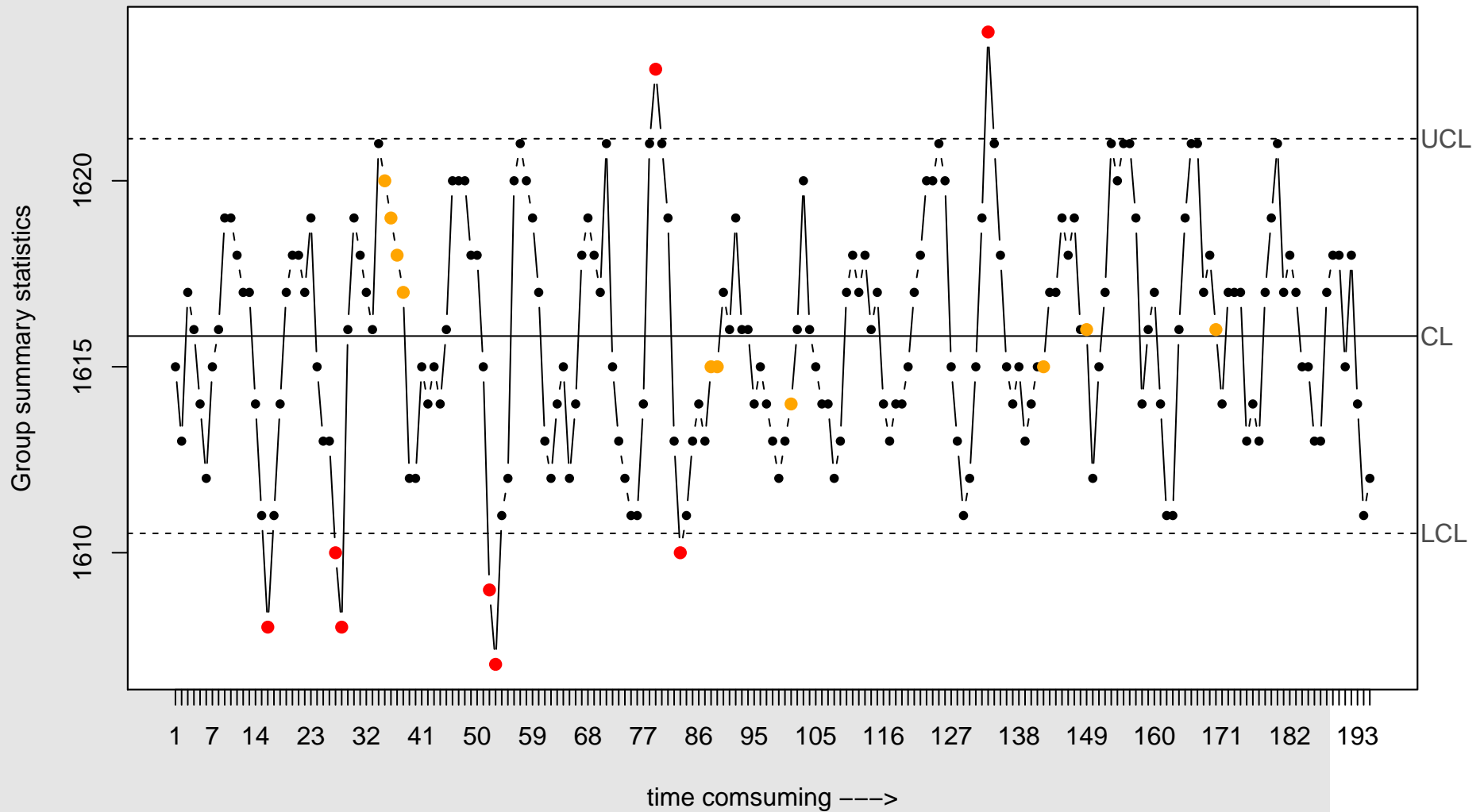
Number beyond limits = 21

Number violating runs = 20

229th column point of this product



230th column point of this product

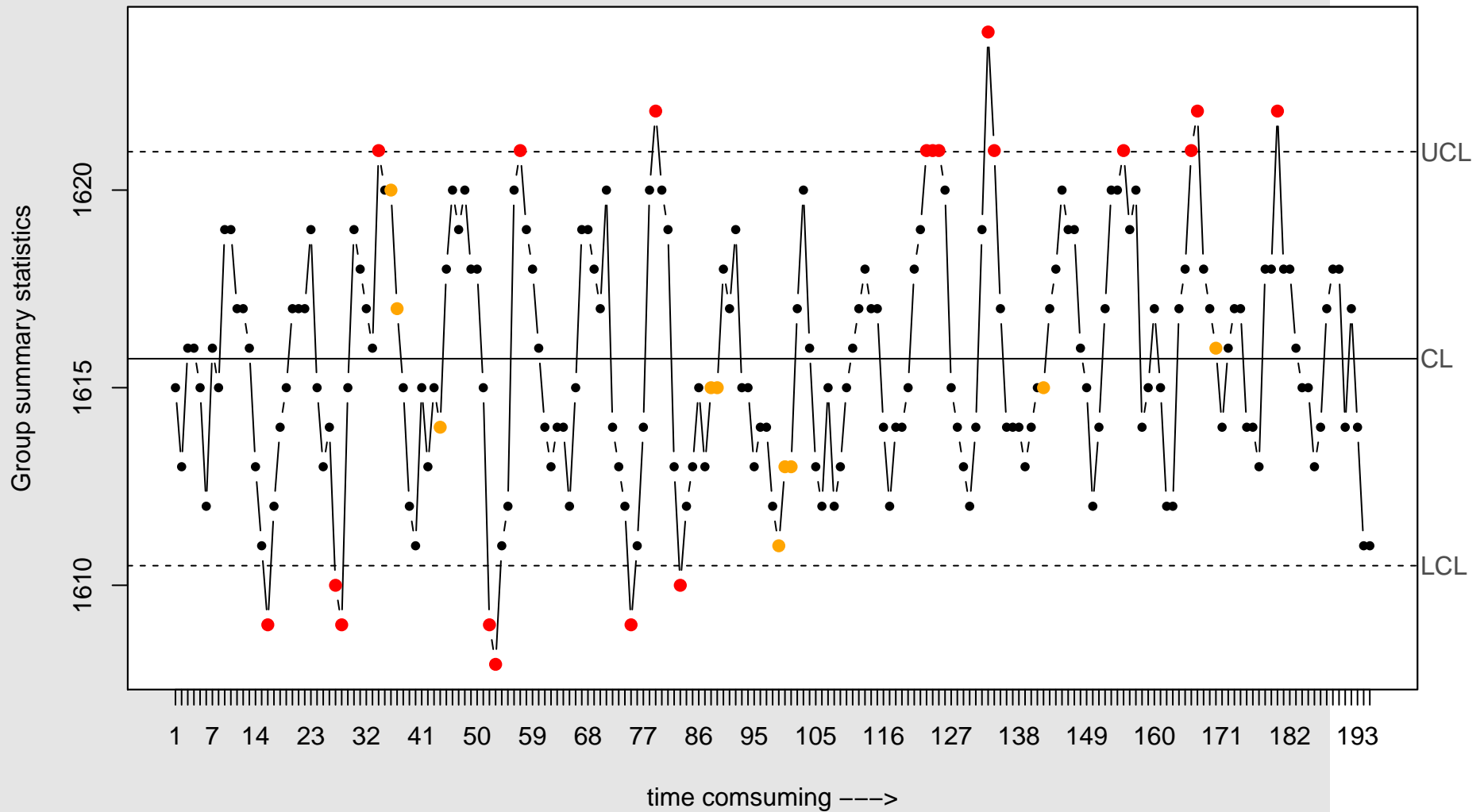


Number of groups = 195
 Center = 1615.826
 StdDev = 1.76848

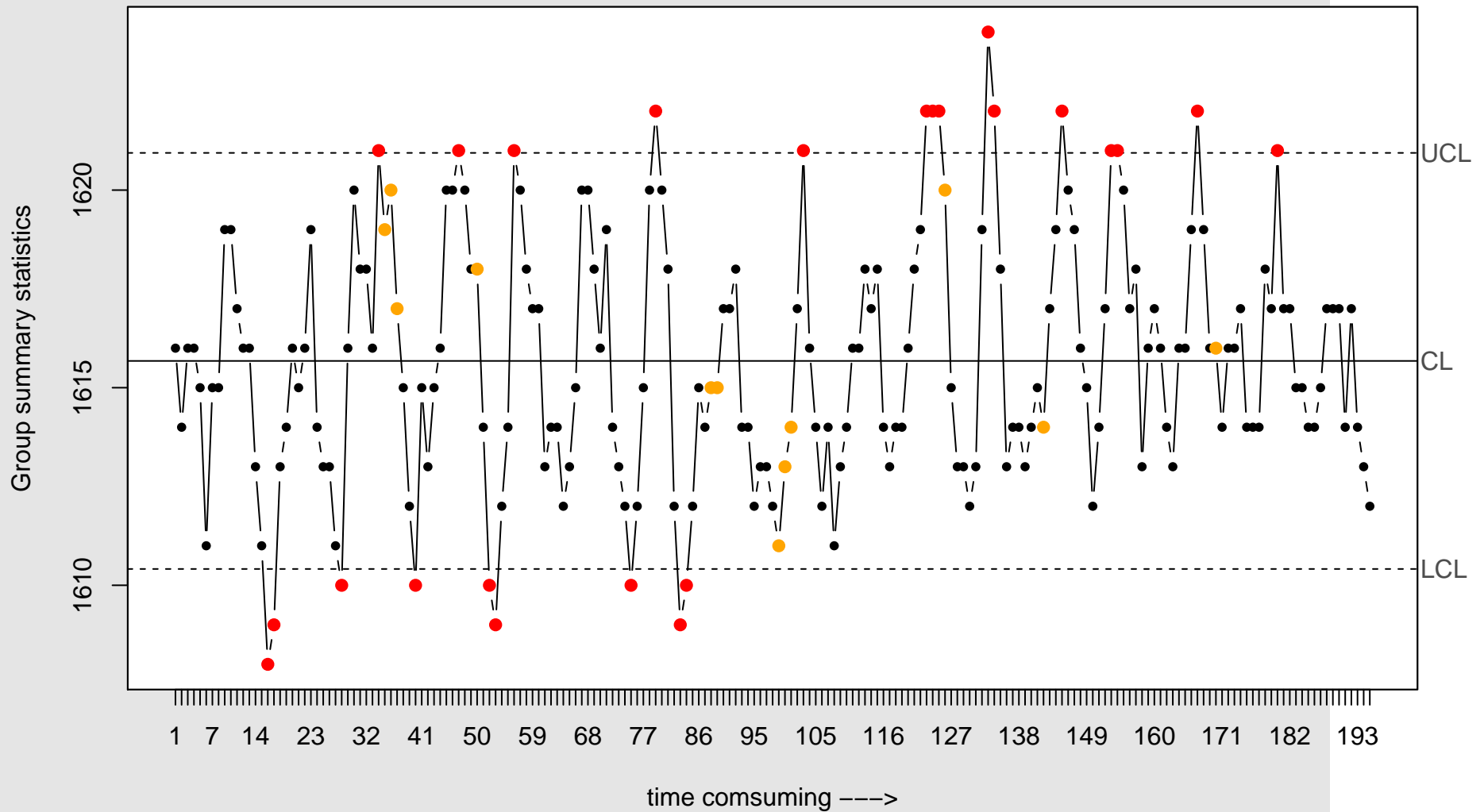
LCL = 1610.52
 UCL = 1621.131

Number beyond limits = 8
 Number violating runs = 10

231th column point of this product



232th column point of this product



Number of groups = 195

Center = 1615.677

StdDev = 1.754771

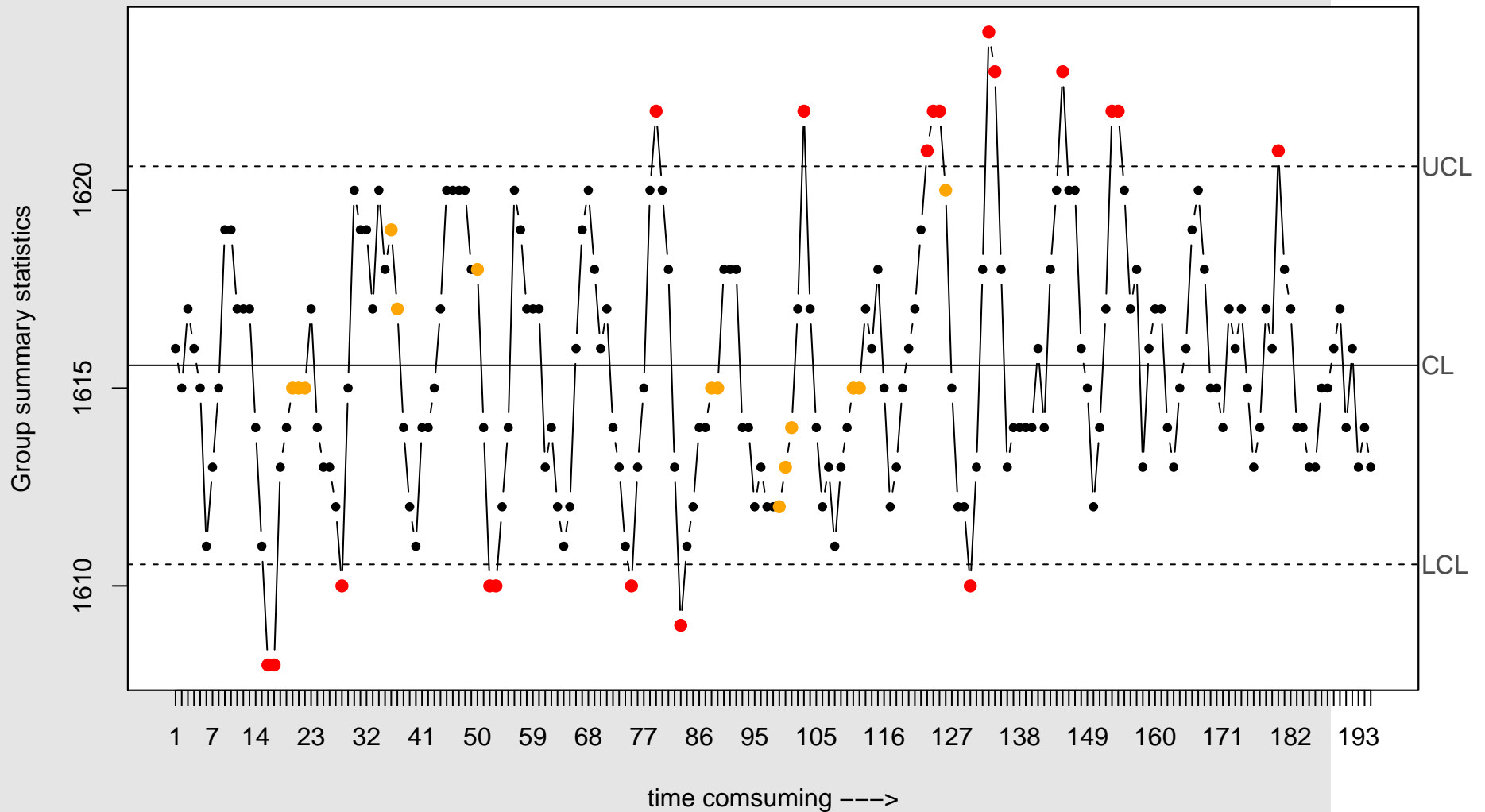
LCL = 1610.413

UCL = 1620.941

Number beyond limits = 24

Number violating runs = 12

233th column point of this product

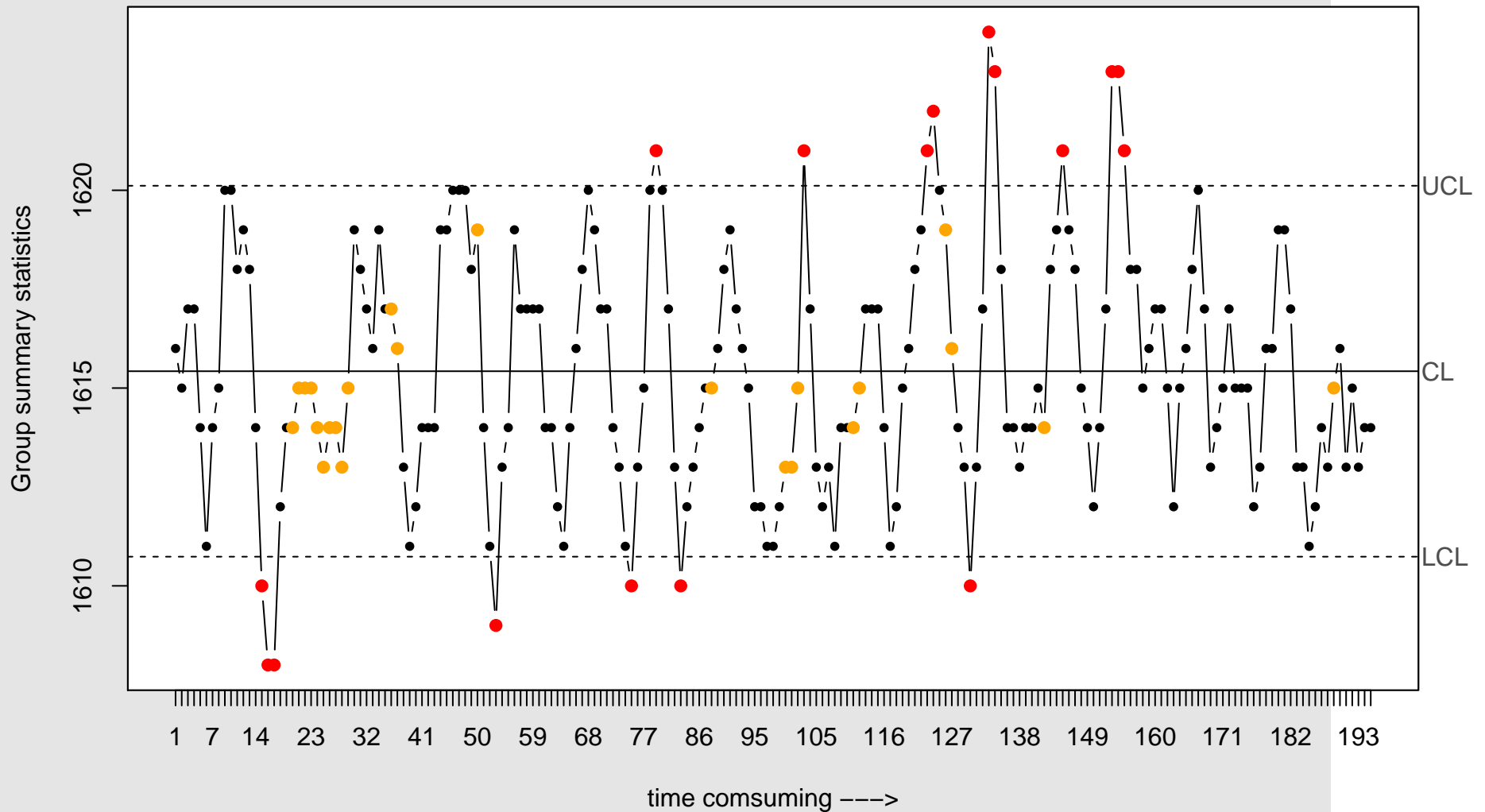


Number of groups = 195
 Center = 1615.574
 StdDev = 1.677086

LCL = 1610.543
 UCL = 1620.606

Number beyond limits = 19
 Number violating runs = 14

234th column point of this product

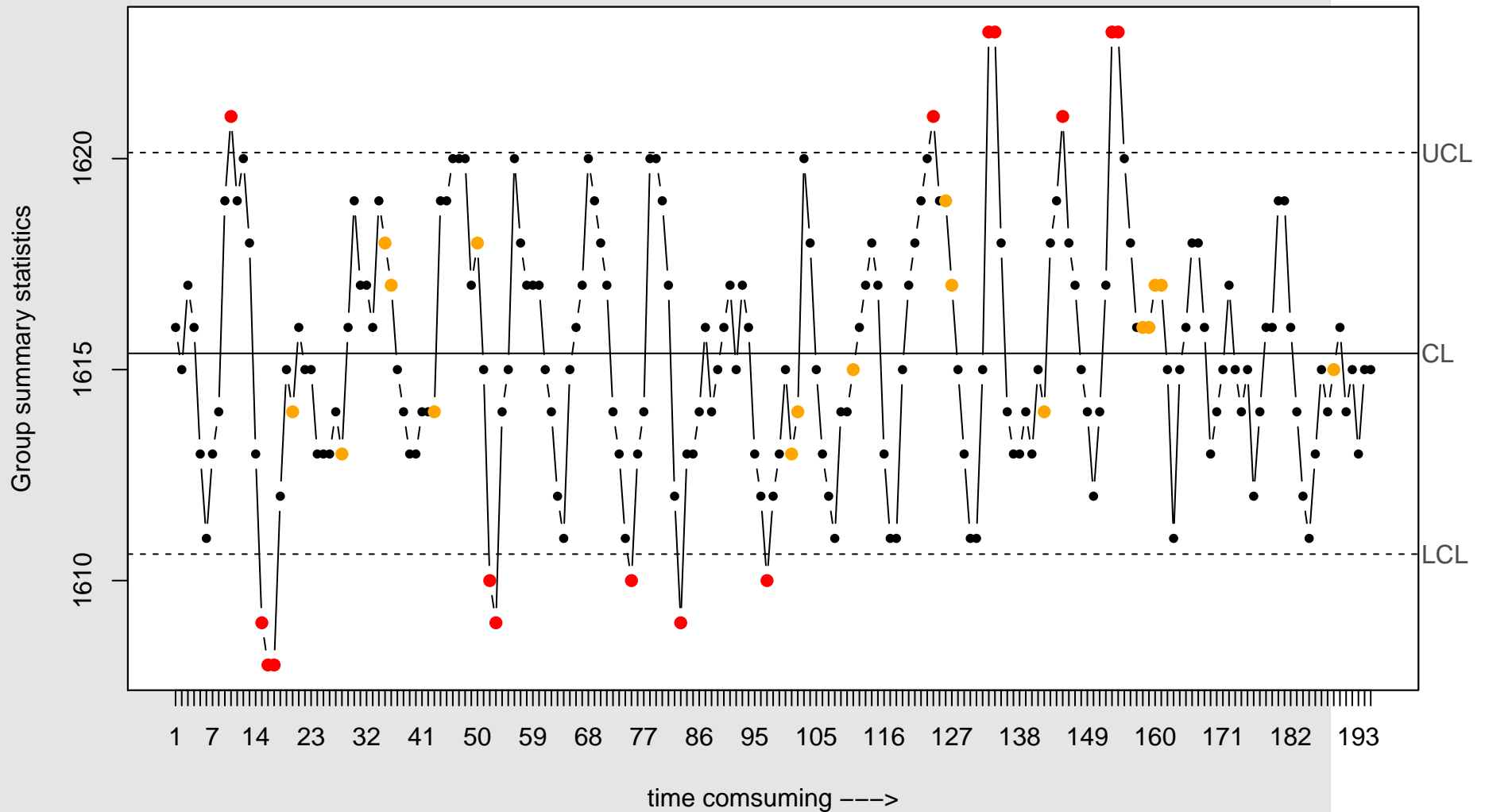


Number of groups = 195
 Center = 1615.426
 StdDev = 1.562843

LCL = 1610.737
 UCL = 1620.114

Number beyond limits = 17
 Number violating runs = 23

235th column point of this product

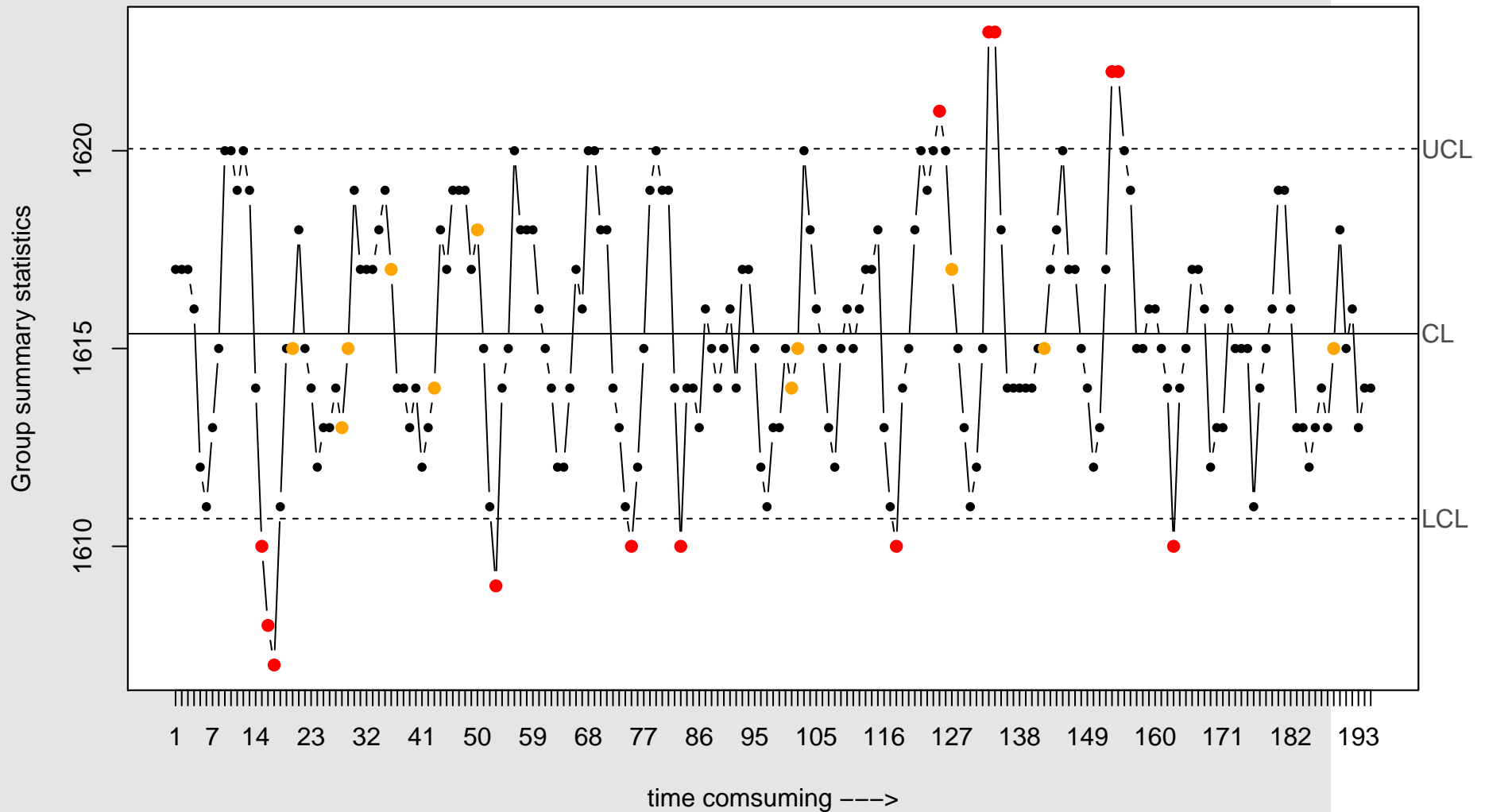


Number of groups = 195
Center = 1615.385
StdDev = 1.585691

LCL = 1610.628
UCL = 1620.142

Number beyond limits = 15
Number violating runs = 17

236th column point of this product



Number of groups = 195

Center = 1615.374

StdDev = 1.558273

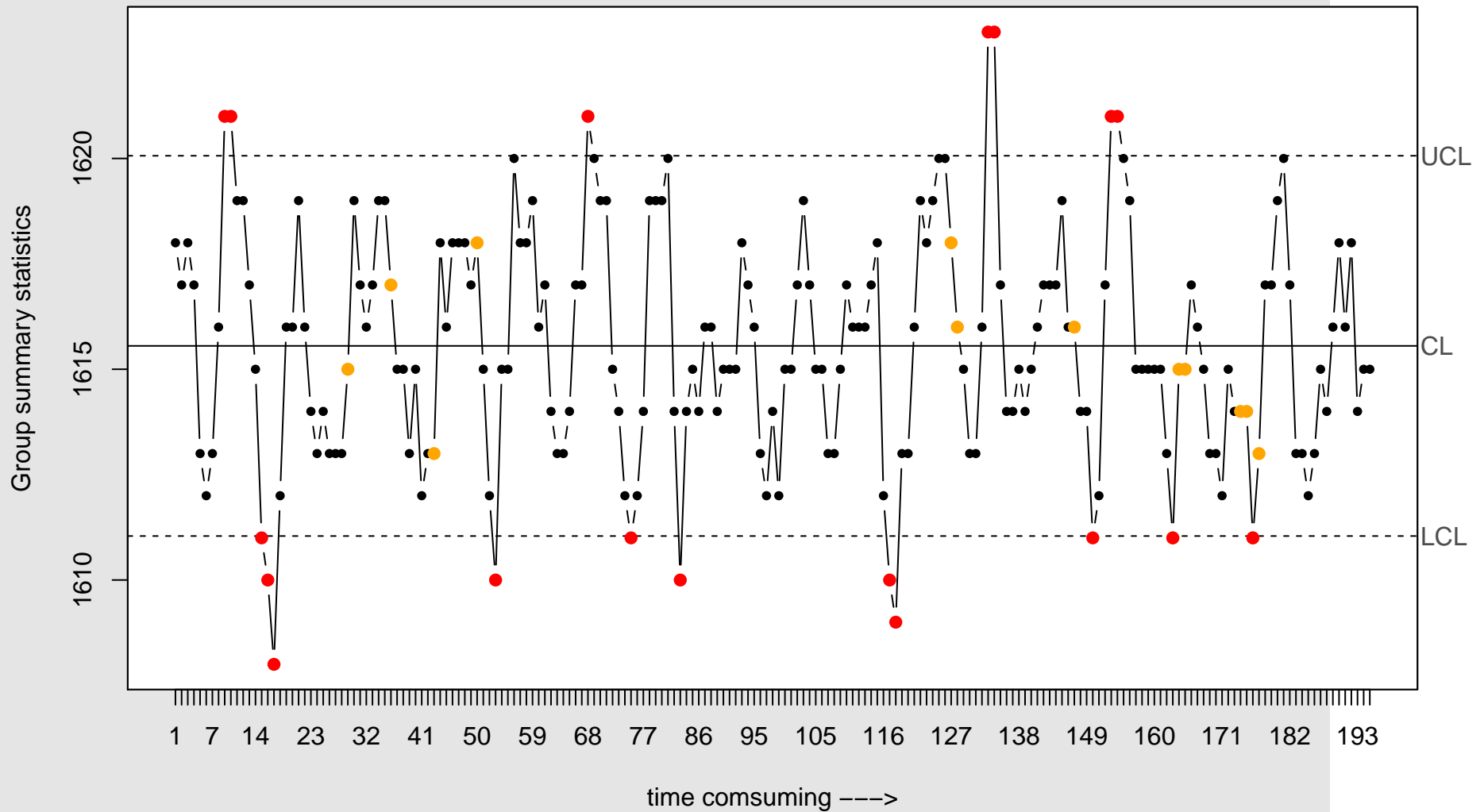
LCL = 1610.7

UCL = 1620.049

Number beyond limits = 13

Number violating runs = 11

237th column point of this product



Number of groups = 195

Center = 1615.554

StdDev = 1.503436

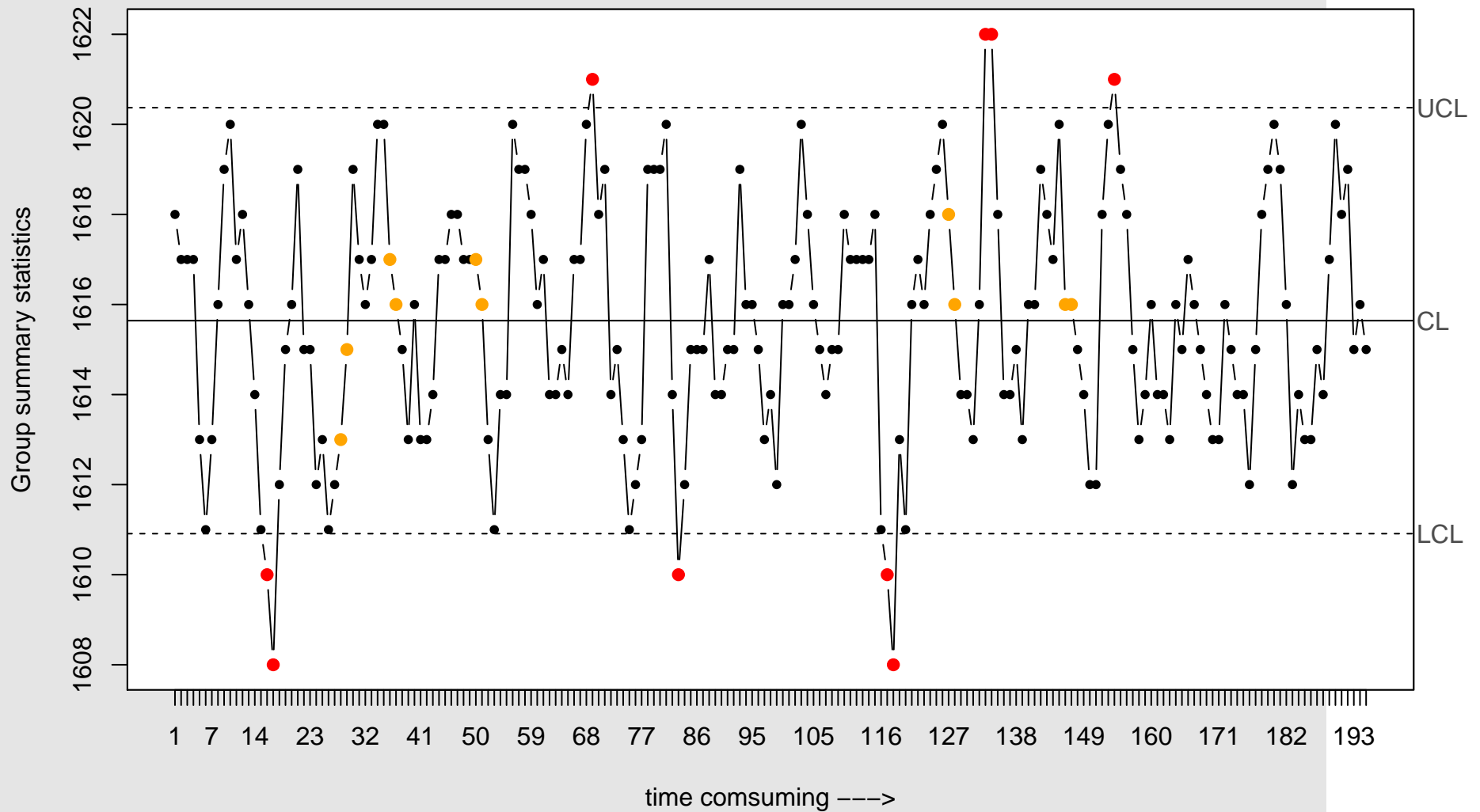
LCL = 1611.044

UCL = 1620.064

Number beyond limits = 18

Number violating runs = 14

238th column point of this product



Number of groups = 195

Center = 1615.641

StdDev = 1.576552

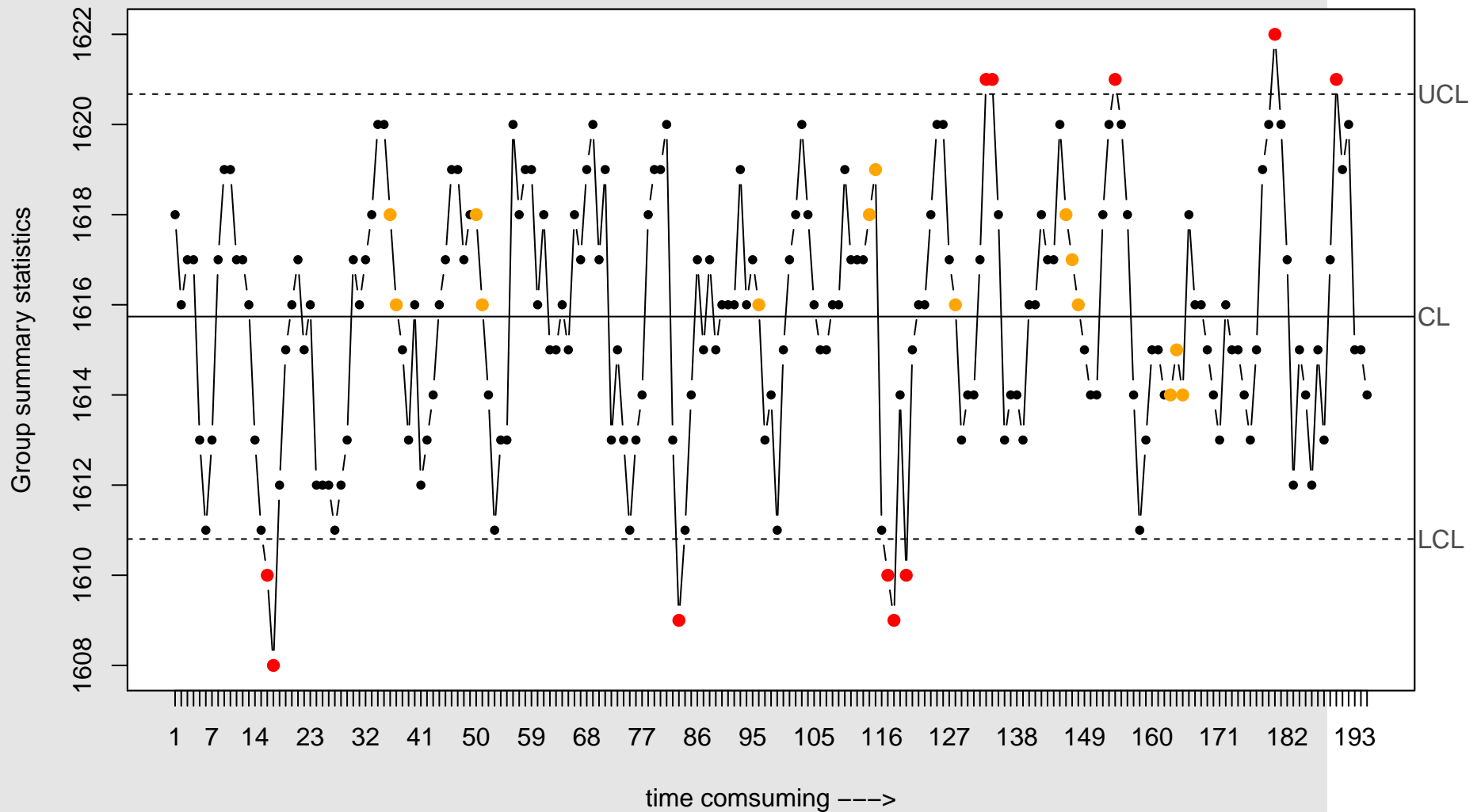
LCL = 1610.911

UCL = 1620.371

Number beyond limits = 9

Number violating runs = 10

239th column point of this product



Number of groups = 195

Center = 1615.738

StdDev = 1.645098

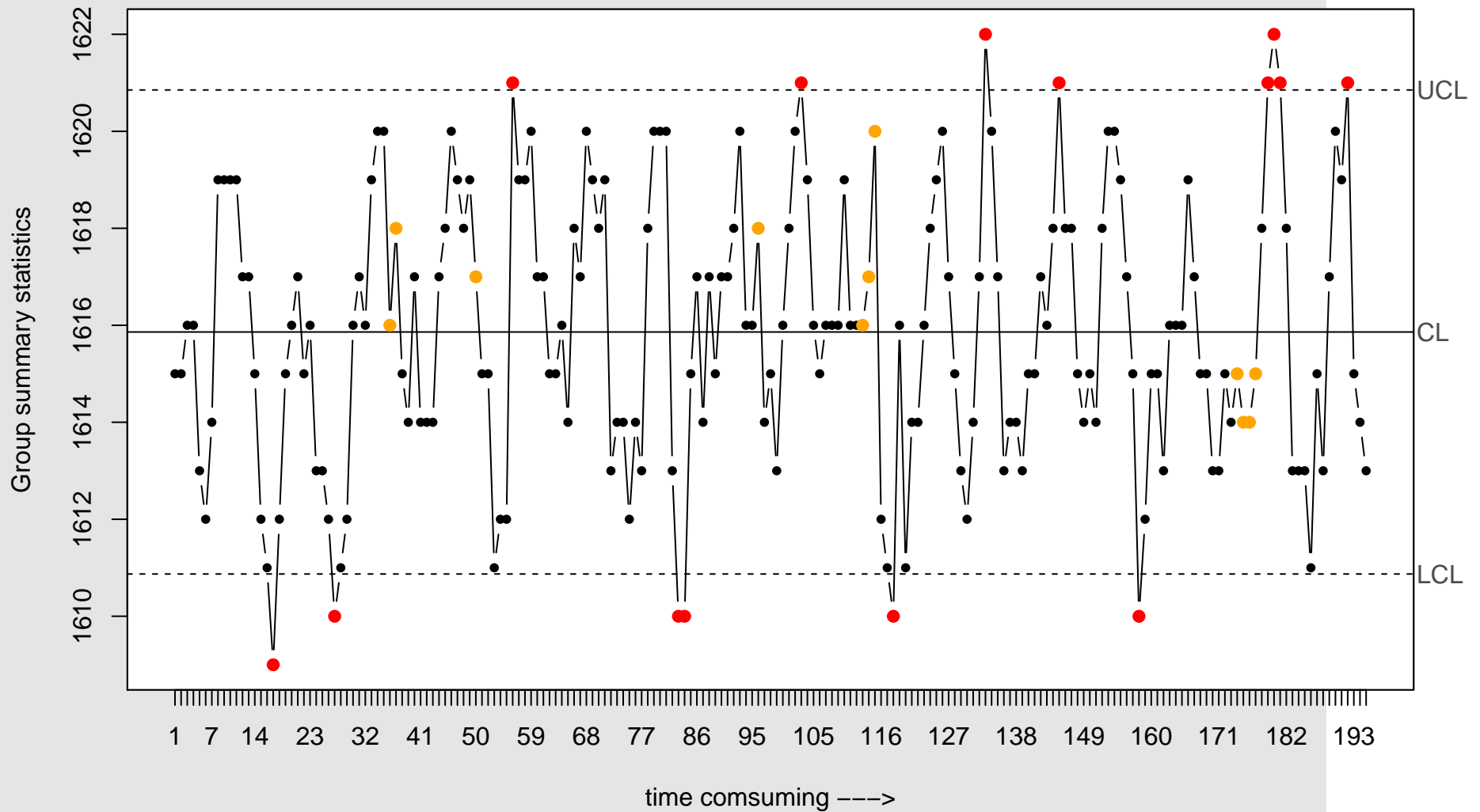
LCL = 1610.803

UCL = 1620.674

Number beyond limits = 11

Number violating runs = 14

240th column point of this product



Number of groups = 195

Center = 1615.862

StdDev = 1.663376

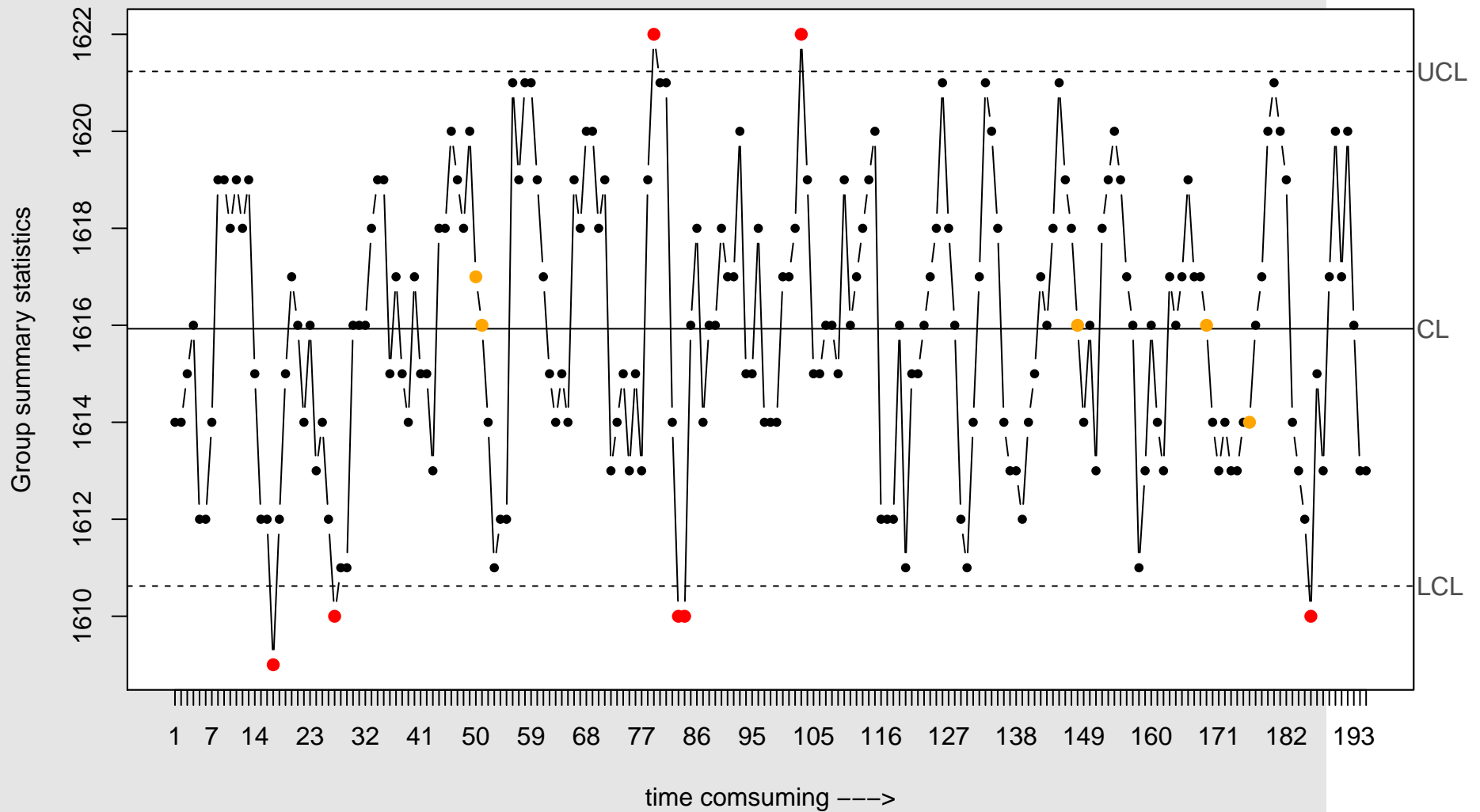
LCL = 1610.871

UCL = 1620.852

Number beyond limits = 14

Number violating runs = 11

241th column point of this product



Number of groups = 195

Center = 1615.928

StdDev = 1.76848

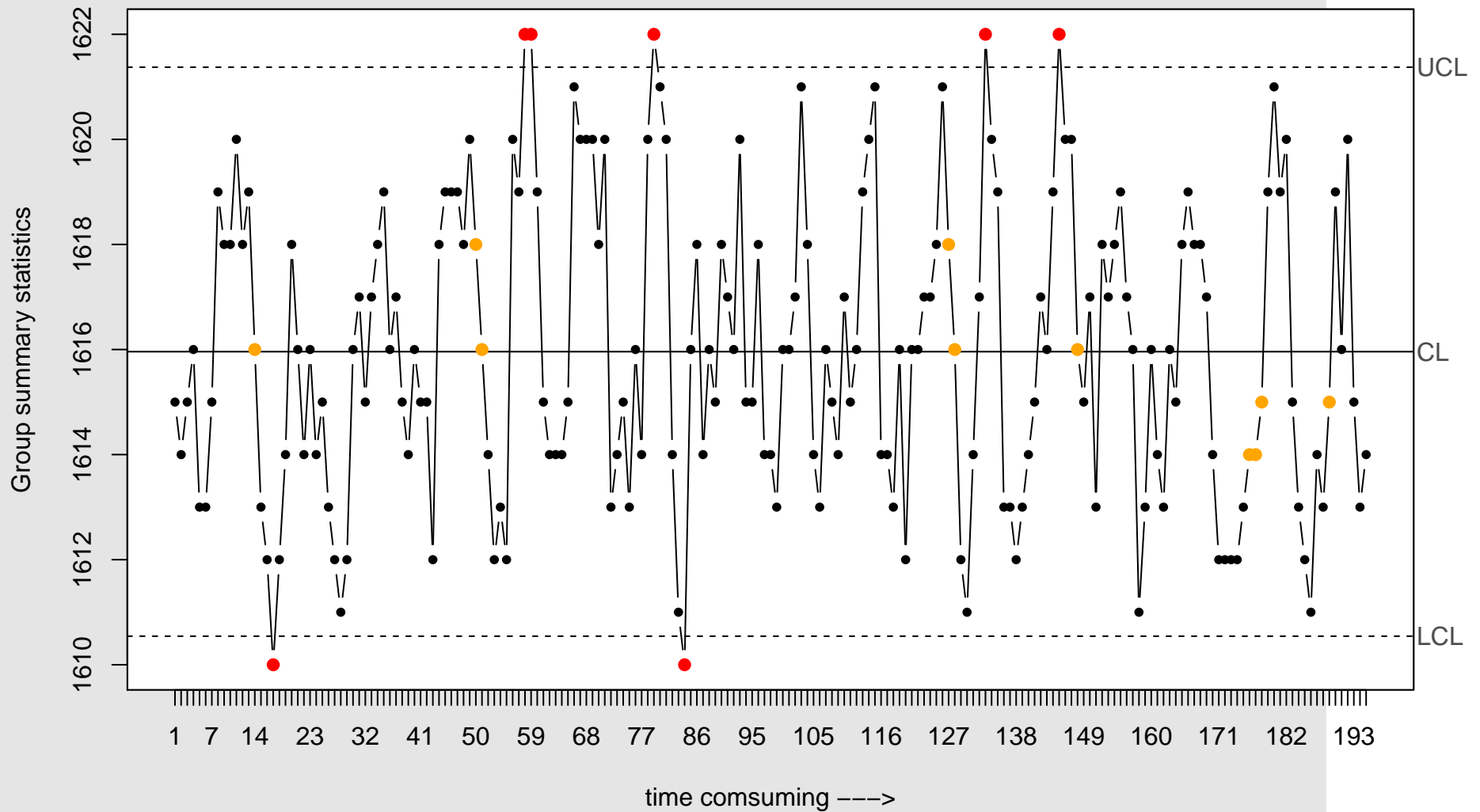
LCL = 1610.623

UCL = 1621.234

Number beyond limits = 7

Number violating runs = 5

242th column point of this product

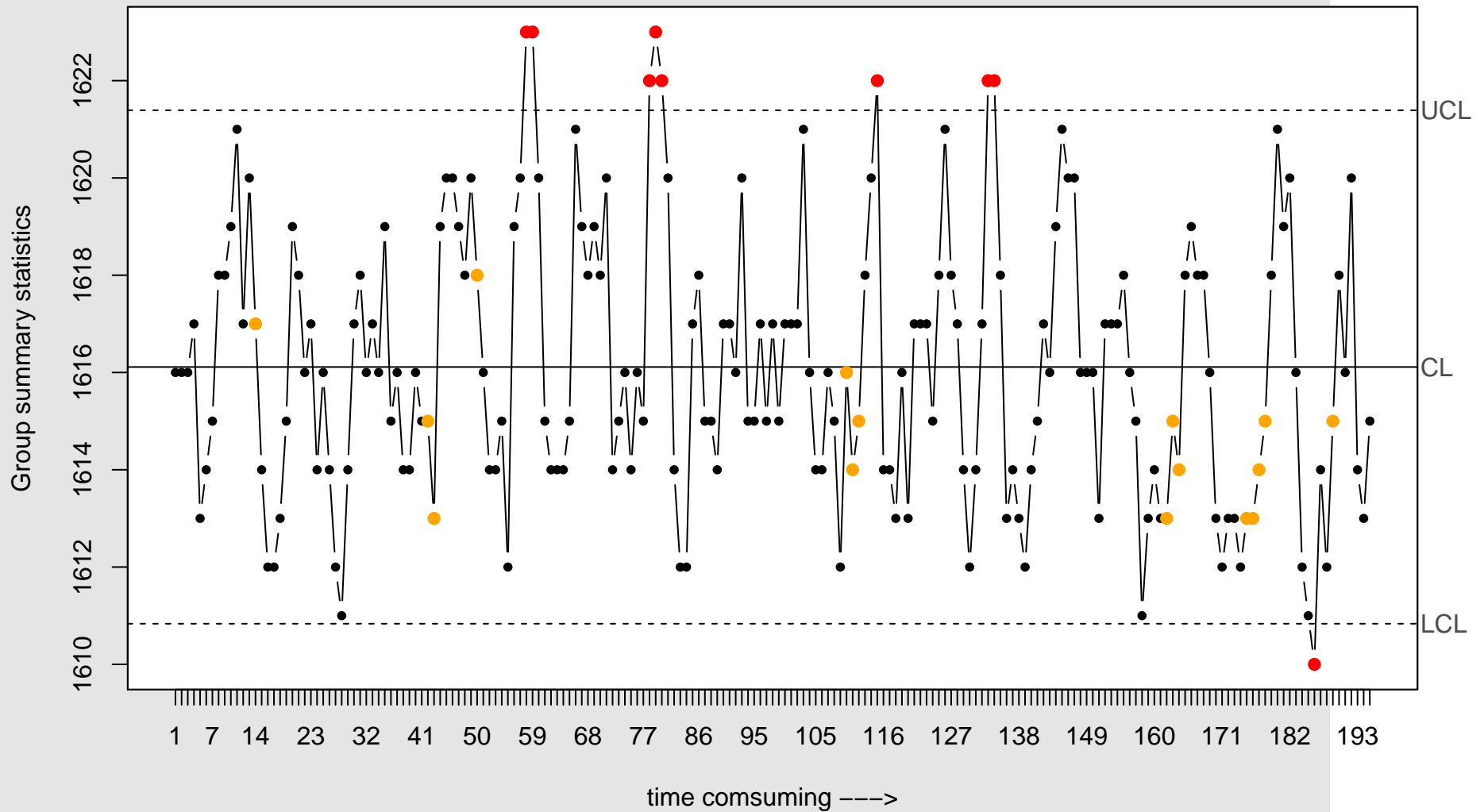


Number of groups = 195
 Center = 1615.959
 StdDev = 1.805038

LCL = 1610.544
 UCL = 1621.374

Number beyond limits = 7
 Number violating runs = 10

243th column point of this product

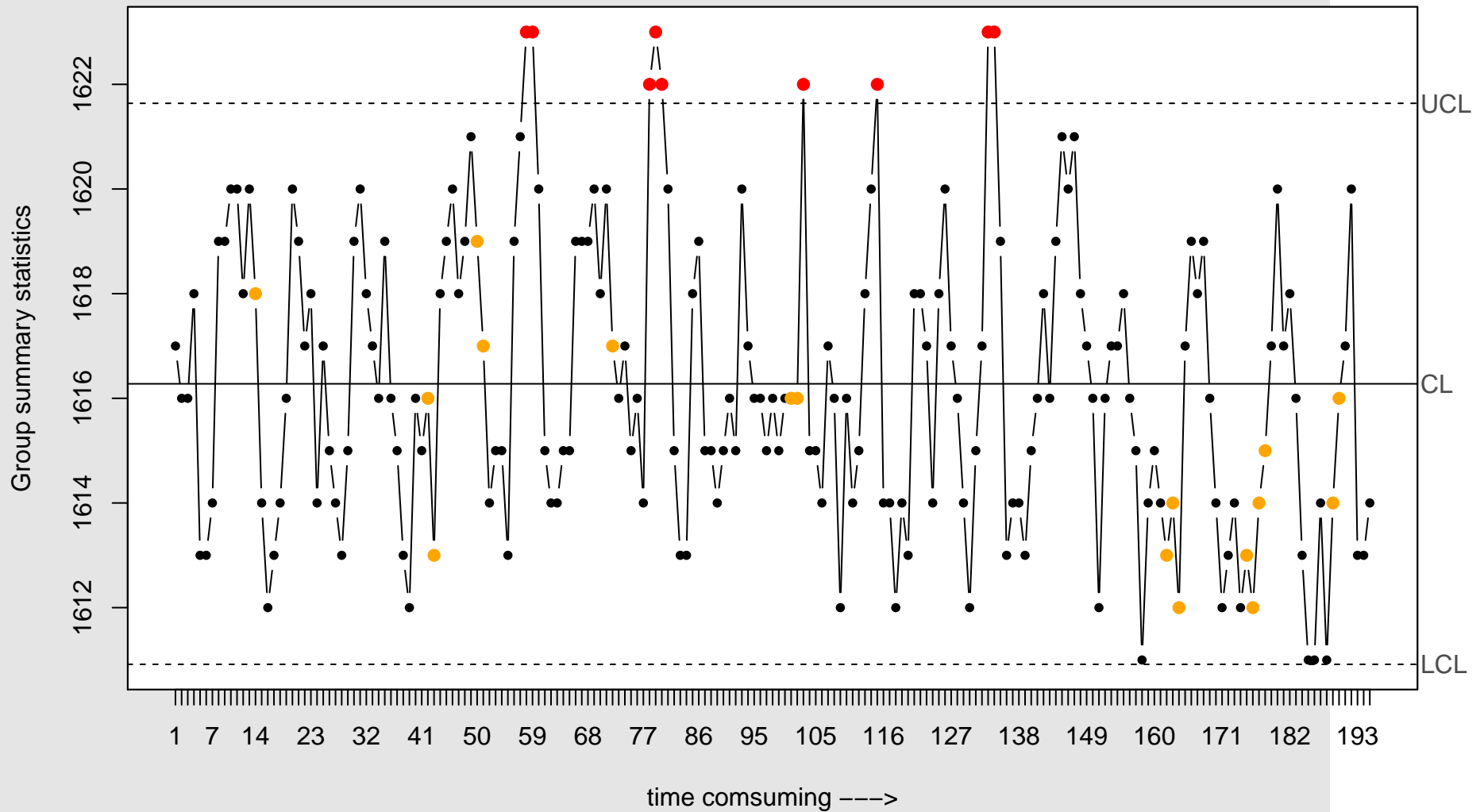


Number of groups = 195
 Center = 1616.113
 StdDev = 1.75934

LCL = 1610.835
 UCL = 1621.391

Number beyond limits = 9
 Number violating runs = 15

244th column point of this product



Number of groups = 195

Center = 1616.277

StdDev = 1.786759

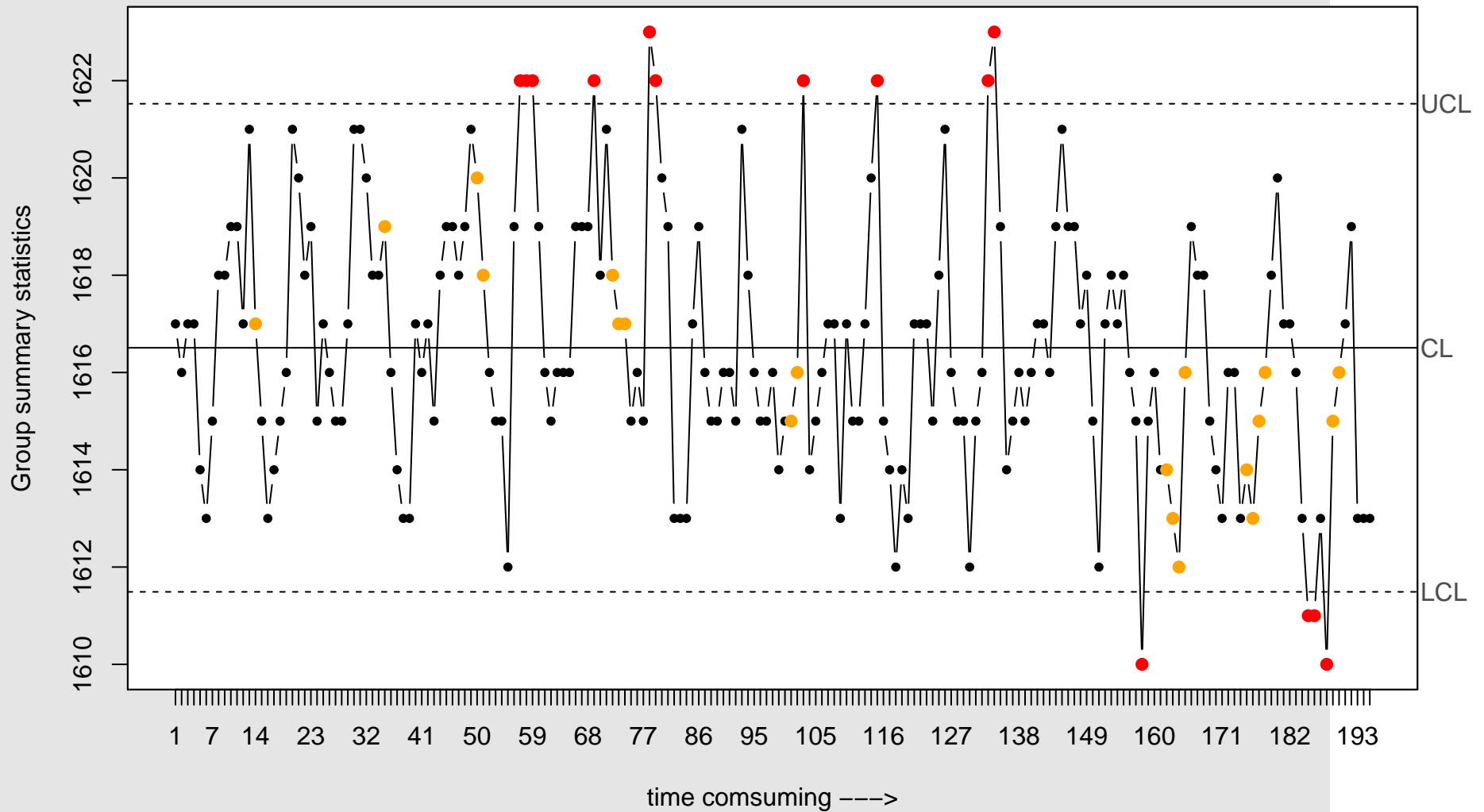
LCL = 1610.917

UCL = 1621.637

Number beyond limits = 9

Number violating runs = 17

245th column point of this product



Number of groups = 195

Center = 1616.508

StdDev = 1.672516

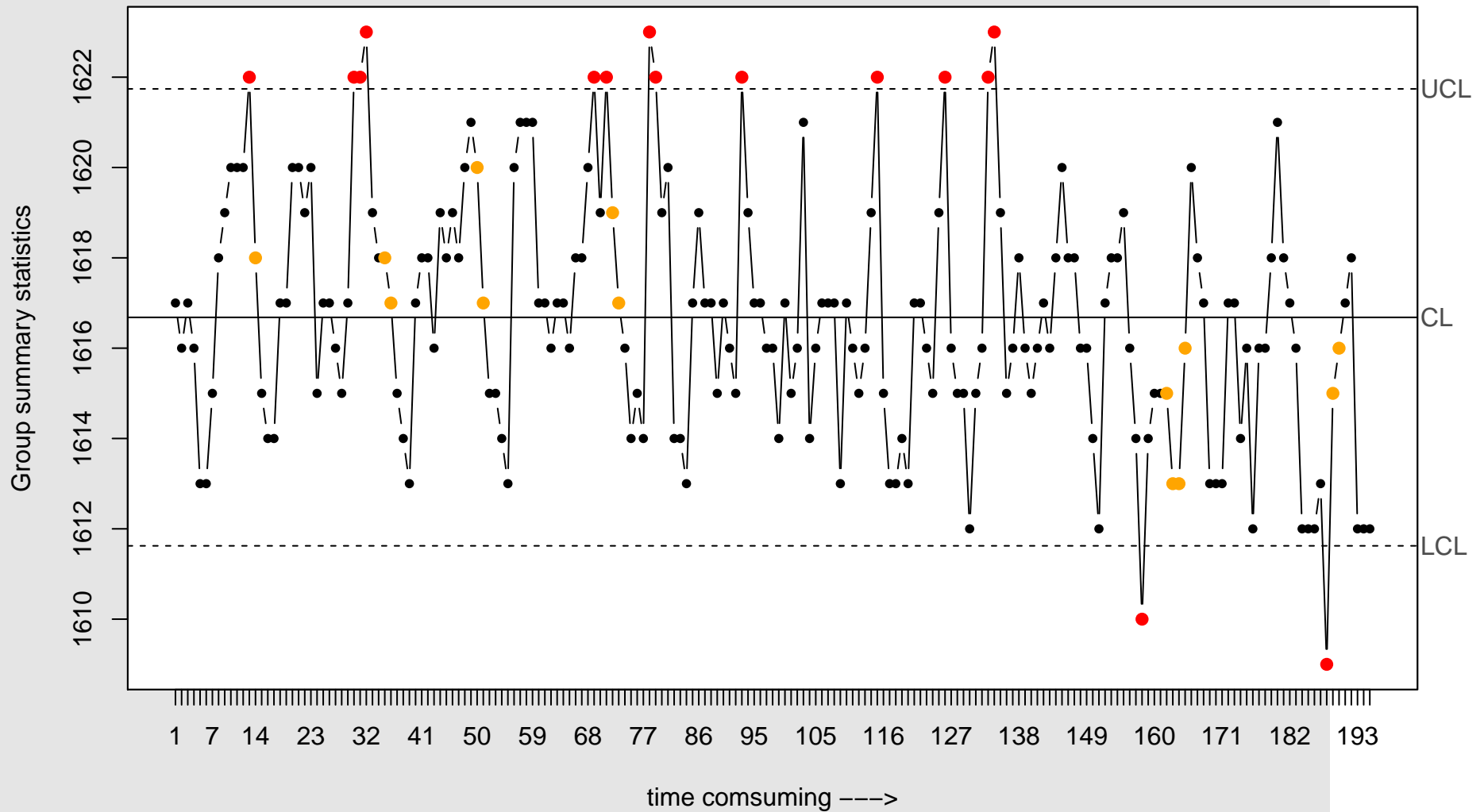
LCL = 1611.49

UCL = 1621.525

Number beyond limits = 14

Number violating runs = 19

246th column point of this product



Number of groups = 195

Center = 1616.682

StdDev = 1.686225

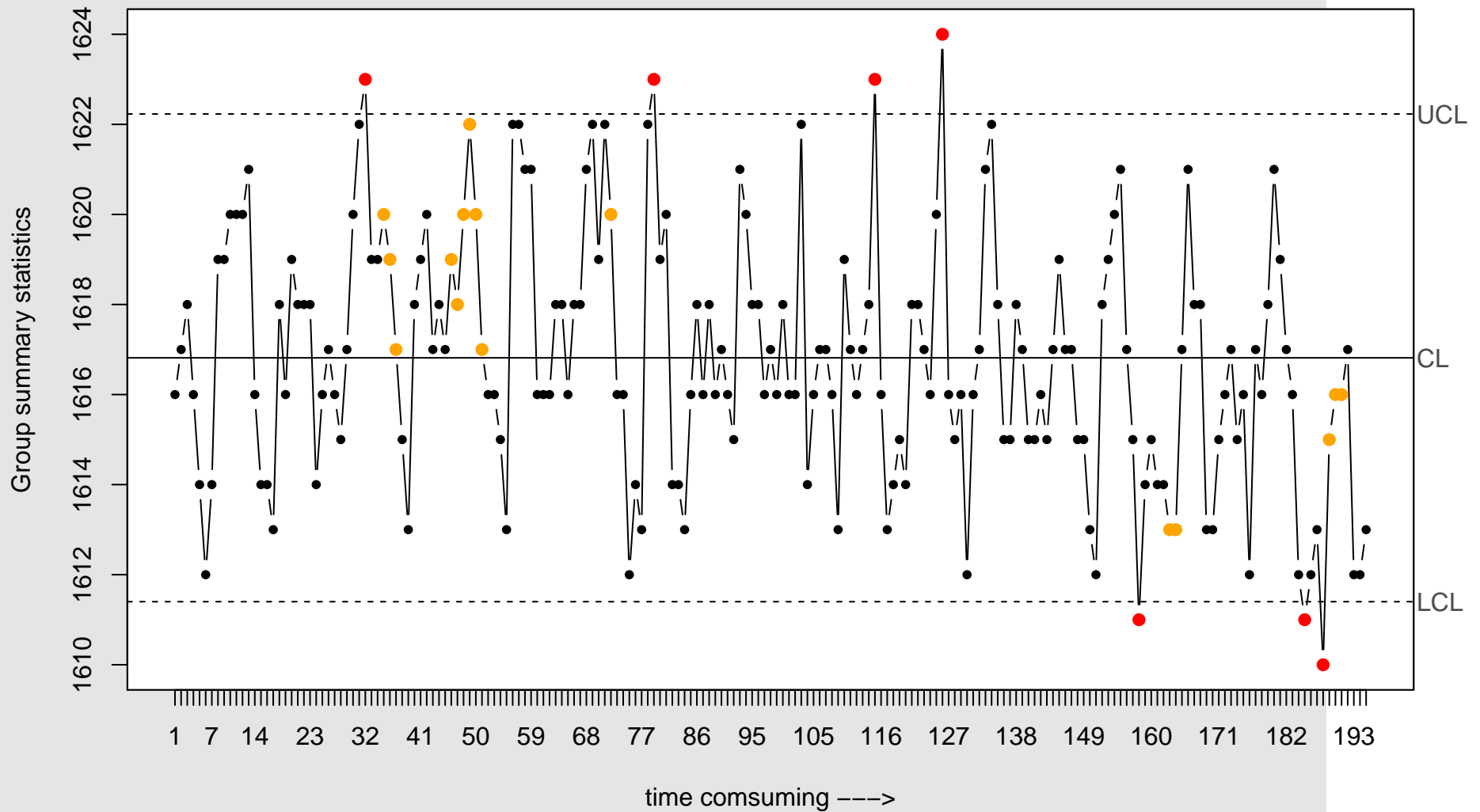
LCL = 1611.623

UCL = 1621.741

Number beyond limits = 15

Number violating runs = 13

247th column point of this product

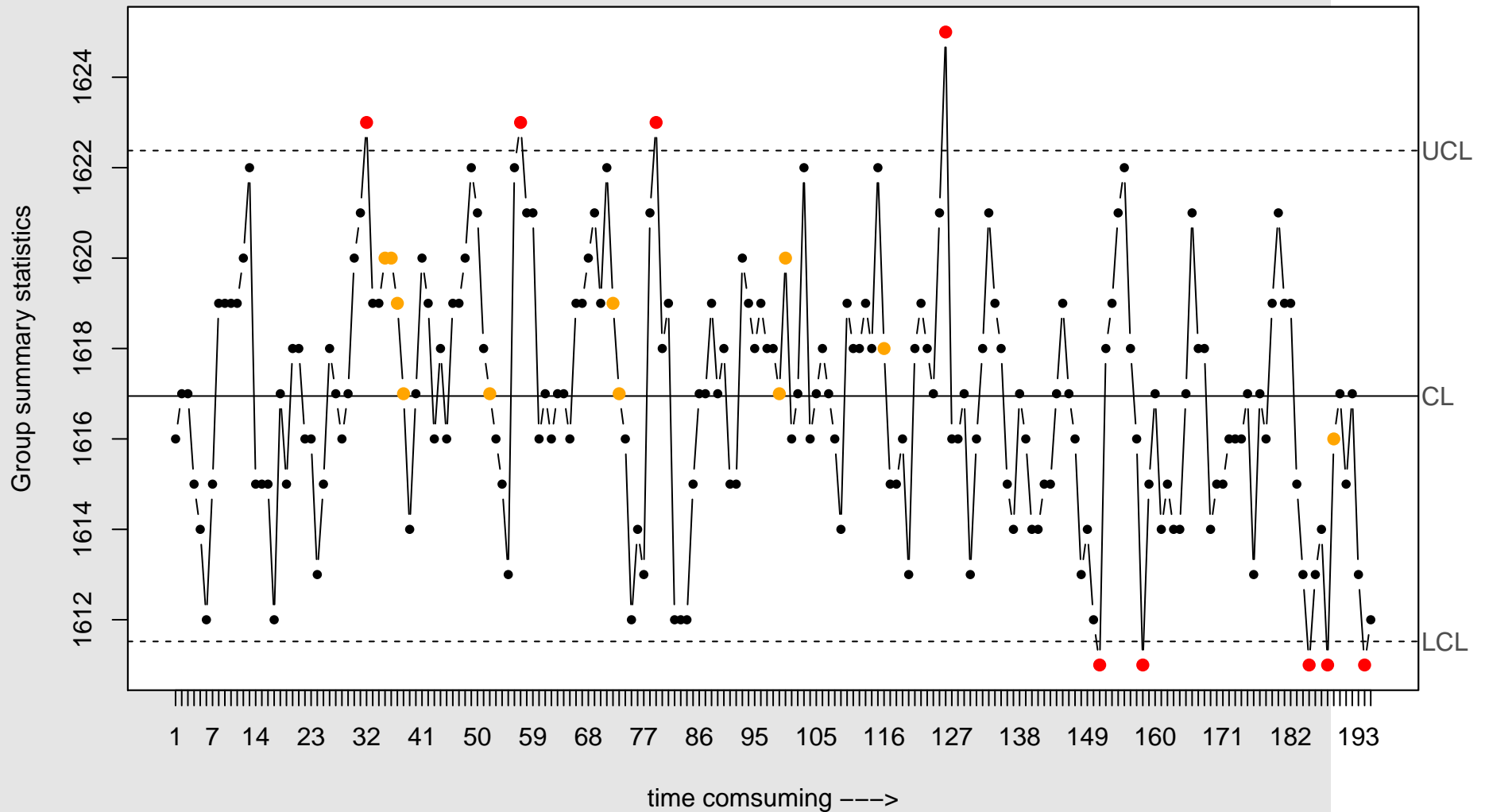


Number of groups = 195
 Center = 1616.815
 StdDev = 1.805038

LCL = 1611.4
 UCL = 1622.23

Number beyond limits = 7
 Number violating runs = 15

248th column point of this product



Number of groups = 195

Center = 1616.949

StdDev = 1.809607

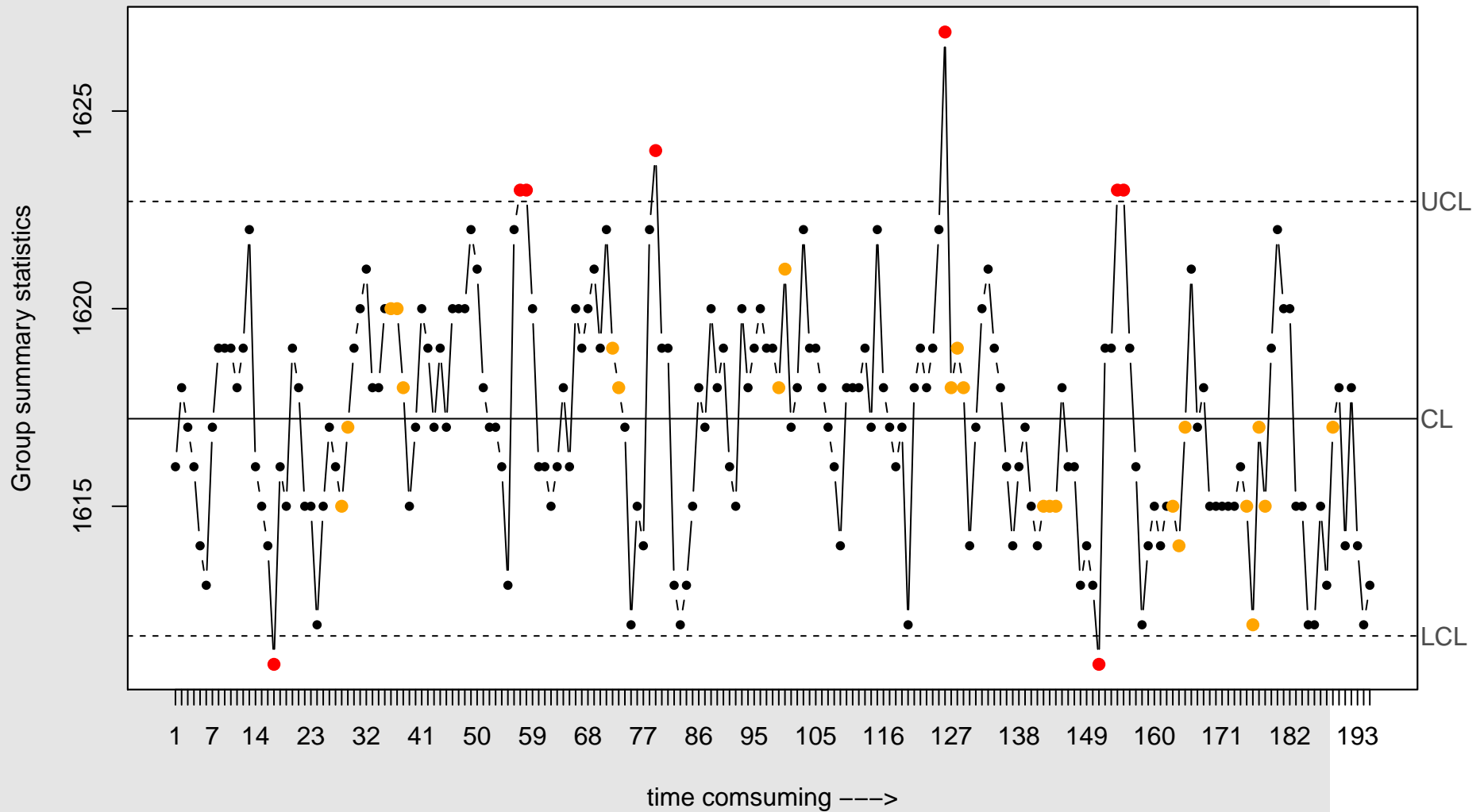
LCL = 1611.52

UCL = 1622.378

Number beyond limits = 9

Number violating runs = 11

249th column point of this product



Number of groups = 195

Center = 1617.215

StdDev = 1.832456

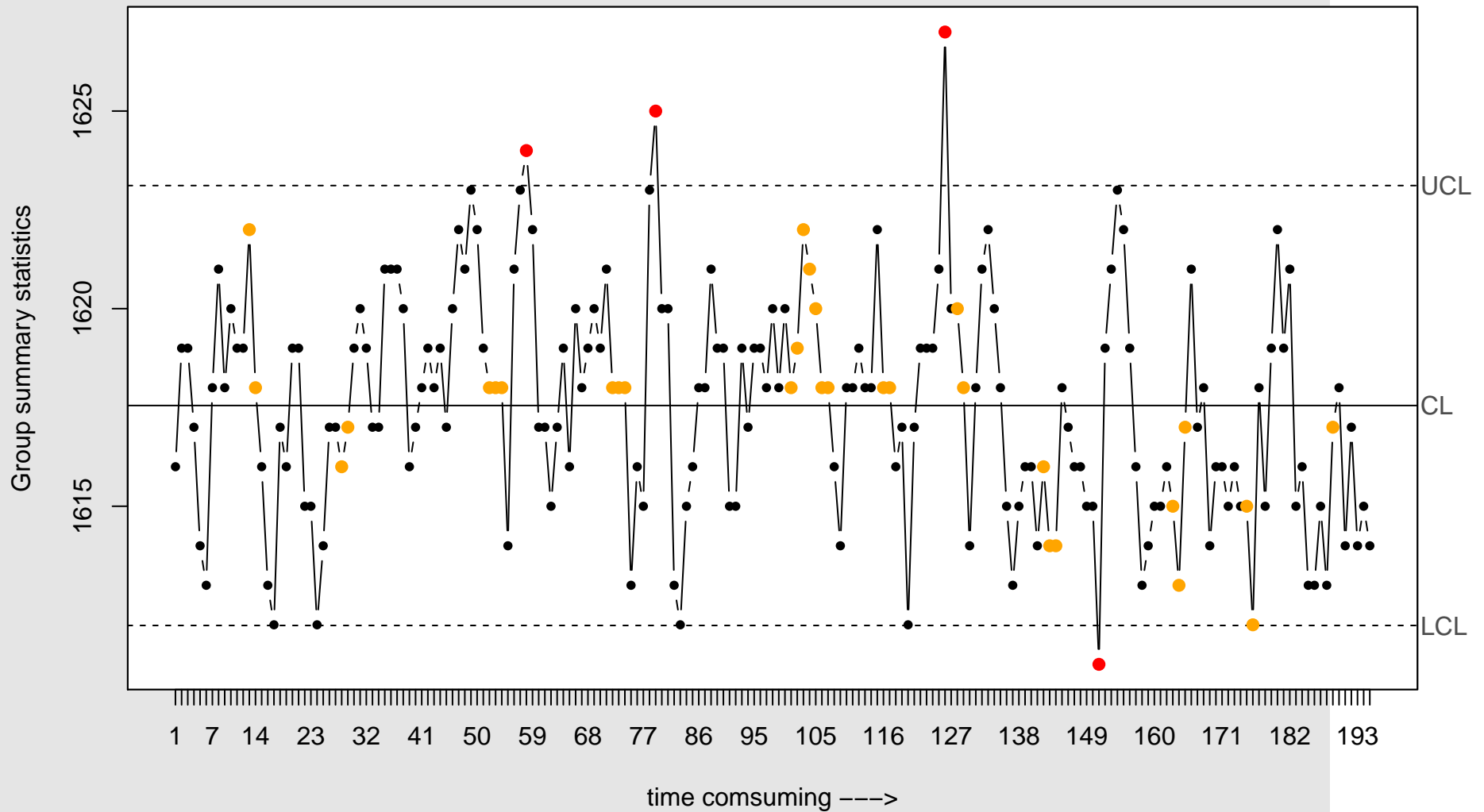
LCL = 1611.718

UCL = 1622.713

Number beyond limits = 8

Number violating runs = 23

250th column point of this product



Number of groups = 195

Center = 1617.549

StdDev = 1.855305

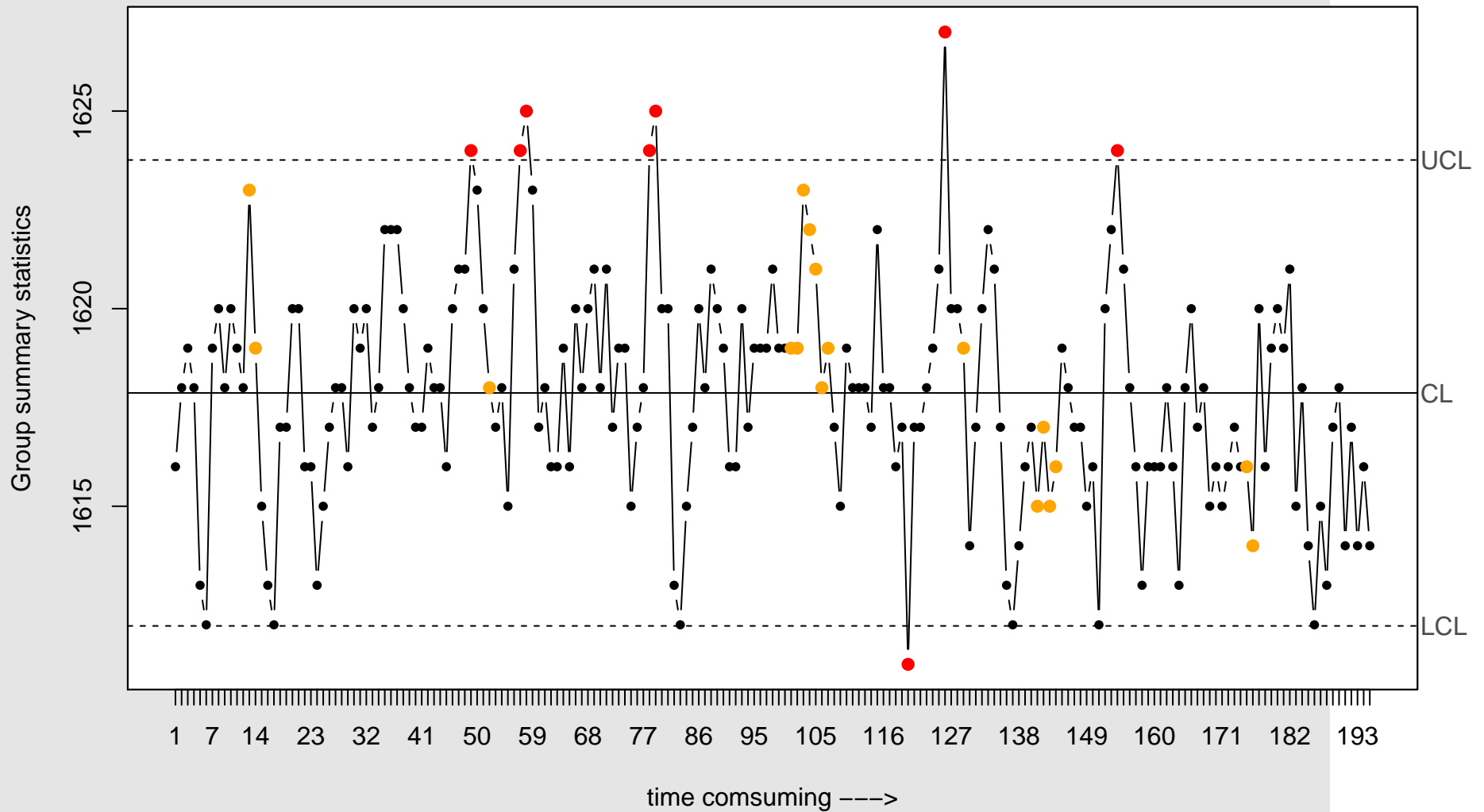
LCL = 1611.983

UCL = 1623.115

Number beyond limits = 4

Number violating runs = 30

251th column point of this product

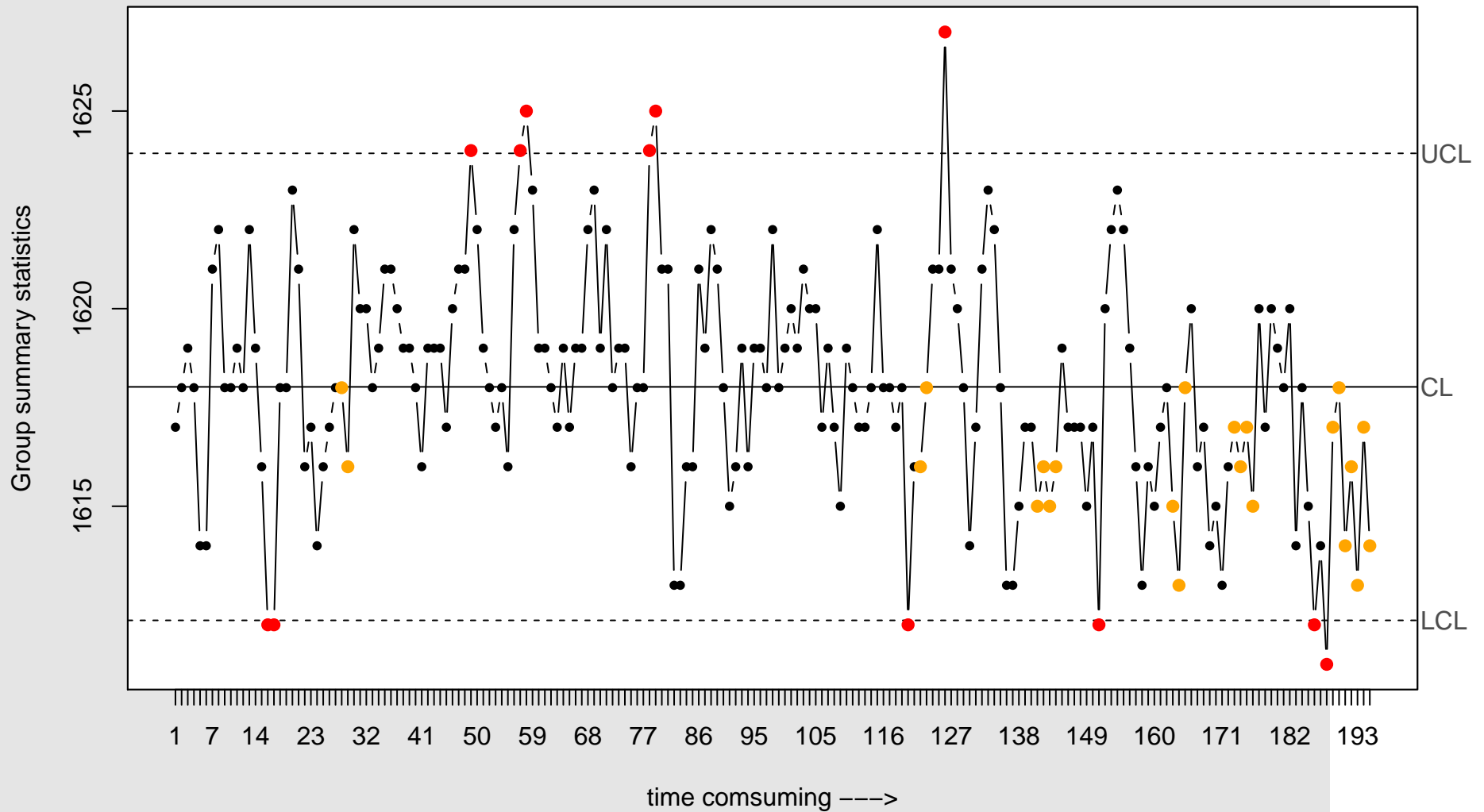


Number of groups = 195
 Center = 1617.867
 StdDev = 1.964978

LCL = 1611.972
 UCL = 1623.762

Number beyond limits = 8
 Number violating runs = 17

252th column point of this product

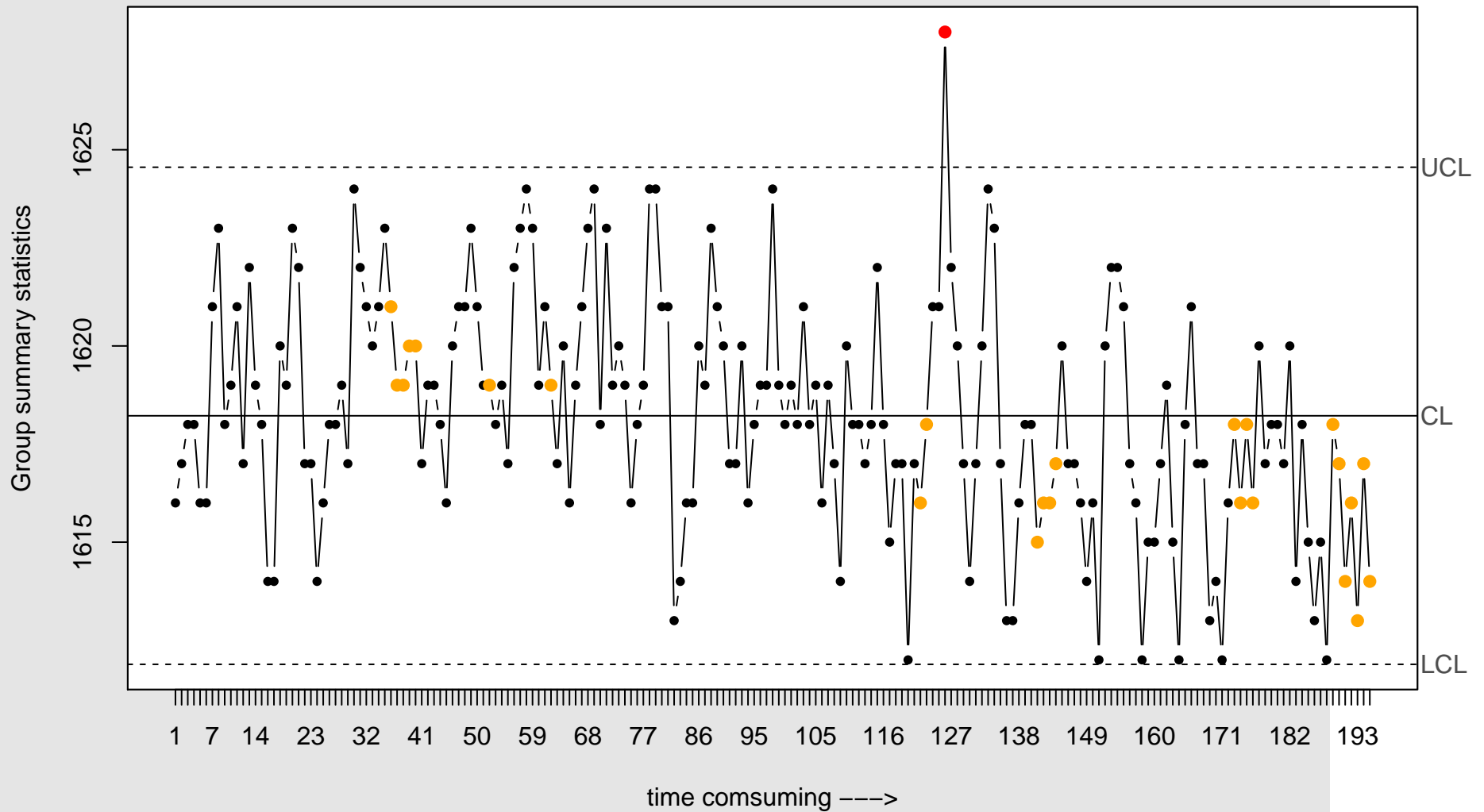


Number of groups = 195
 Center = 1618.021
 StdDev = 1.969547

LCL = 1612.112
 UCL = 1623.929

Number beyond limits = 12
 Number violating runs = 22

253th column point of this product



Number of groups = 195

Center = 1618.221

StdDev = 2.111209

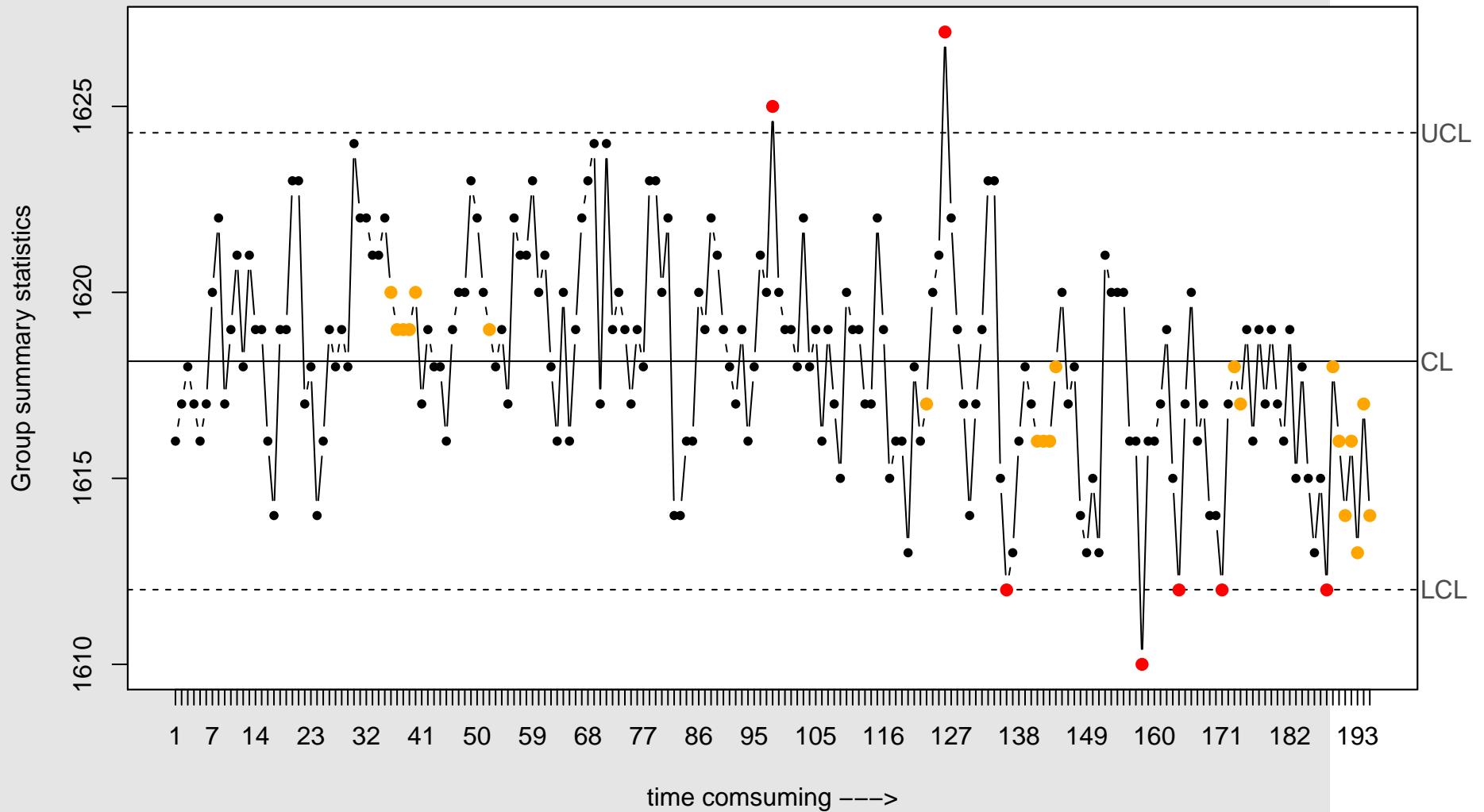
LCL = 1611.887

UCL = 1624.554

Number beyond limits = 1

Number violating runs = 24

254th column point of this product



Number of groups = 195

Center = 1618.149

StdDev = 2.047233

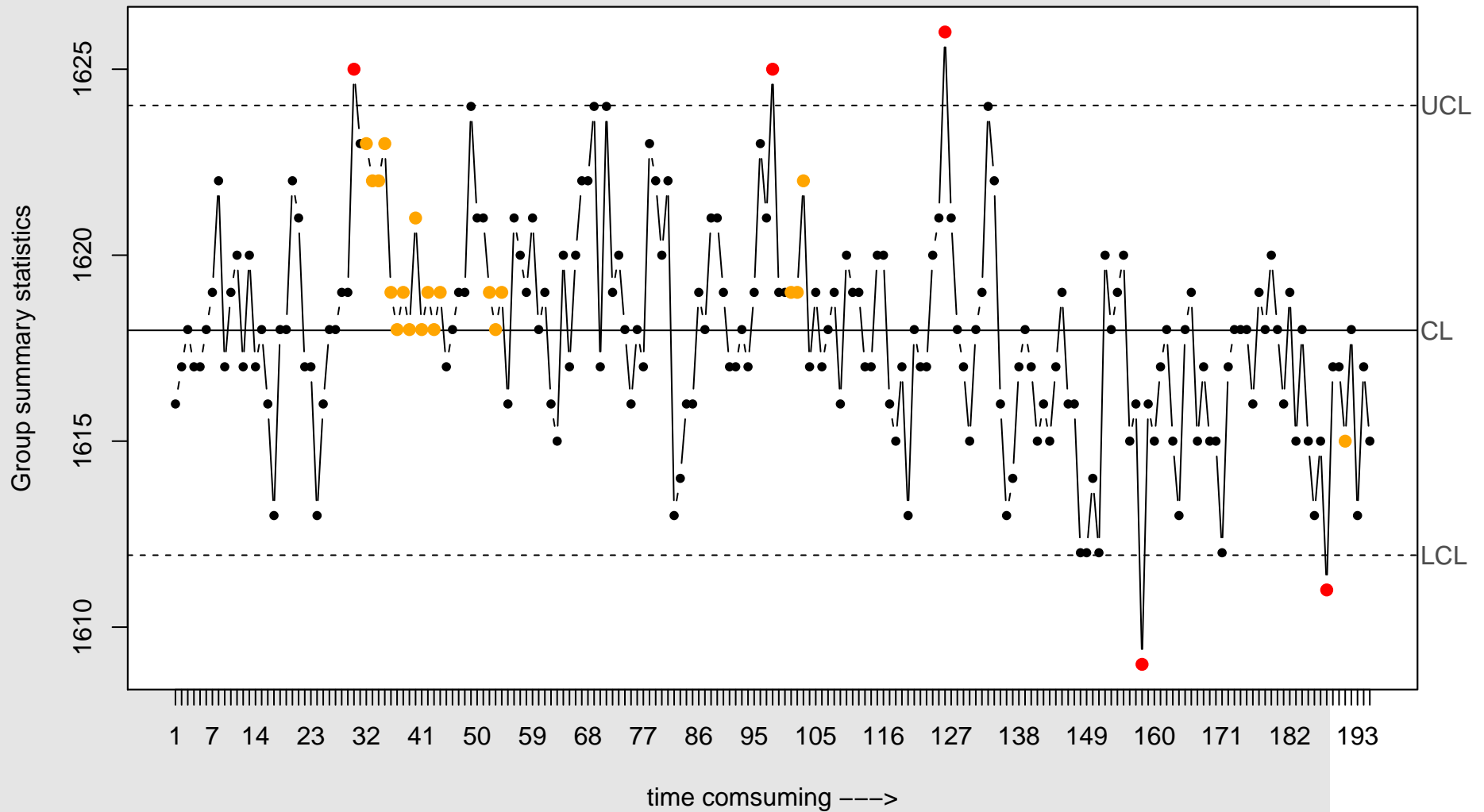
LCL = 1612.007

UCL = 1624.29

Number beyond limits = 7

Number violating runs = 20

255th column point of this product



Number of groups = 195

Center = 1617.979

StdDev = 2.015245

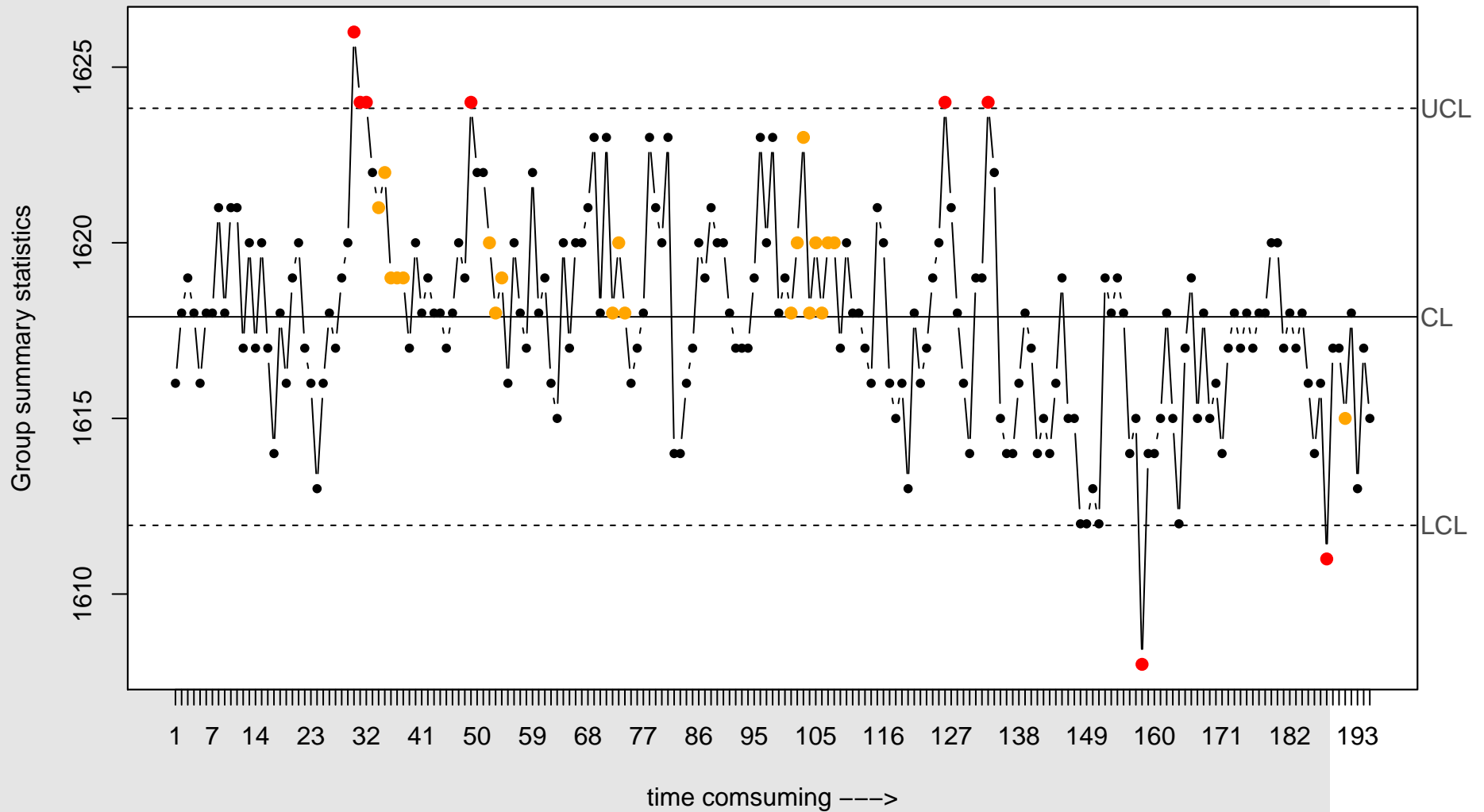
LCL = 1611.934

UCL = 1624.025

Number beyond limits = 5

Number violating runs = 20

256th column point of this product



Number of groups = 195

Center = 1617.892

StdDev = 1.978687

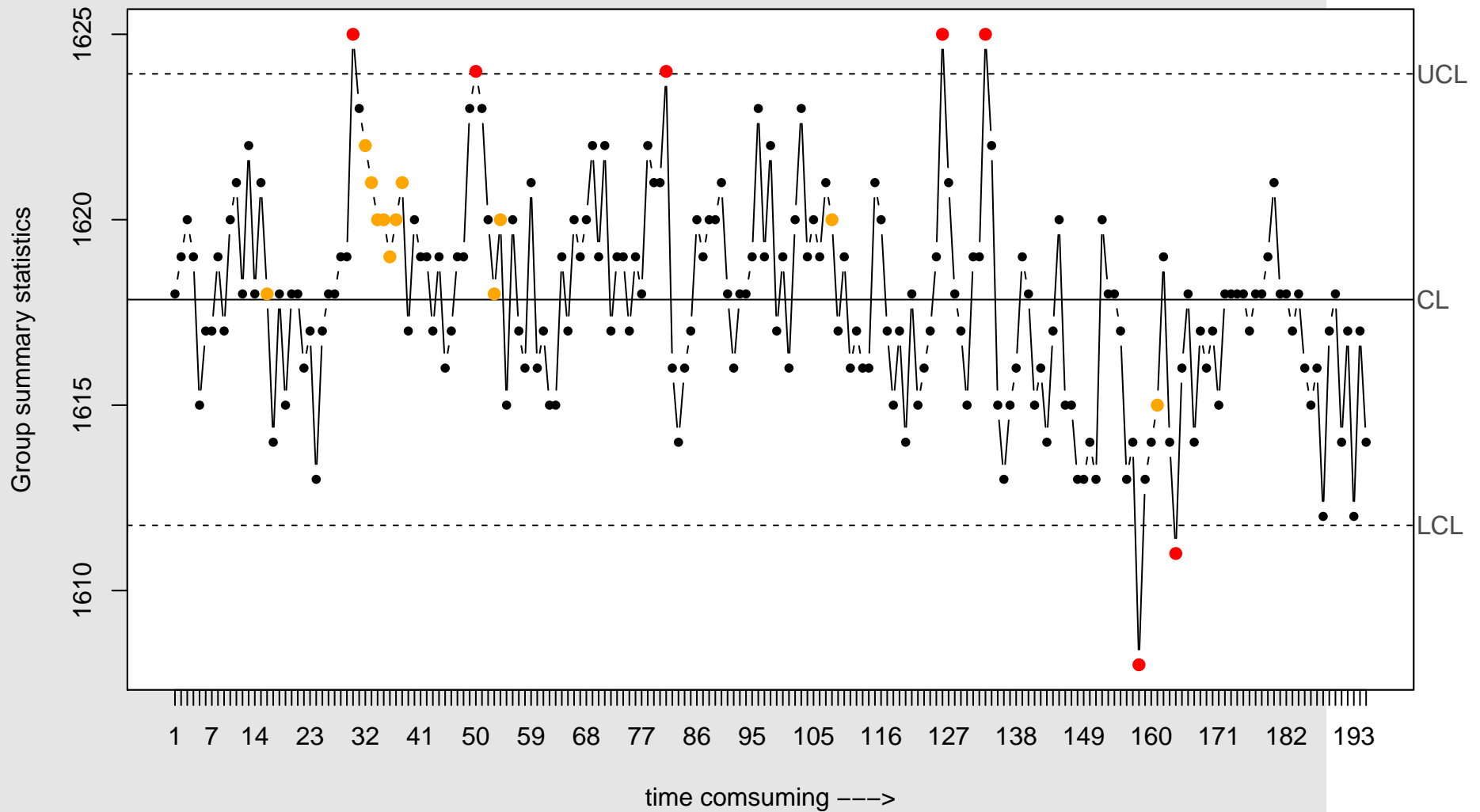
LCL = 1611.956

UCL = 1623.828

Number beyond limits = 8

Number violating runs = 20

257th column point of this product



Number of groups = 195

Center = 1617.846

StdDev = 2.028954

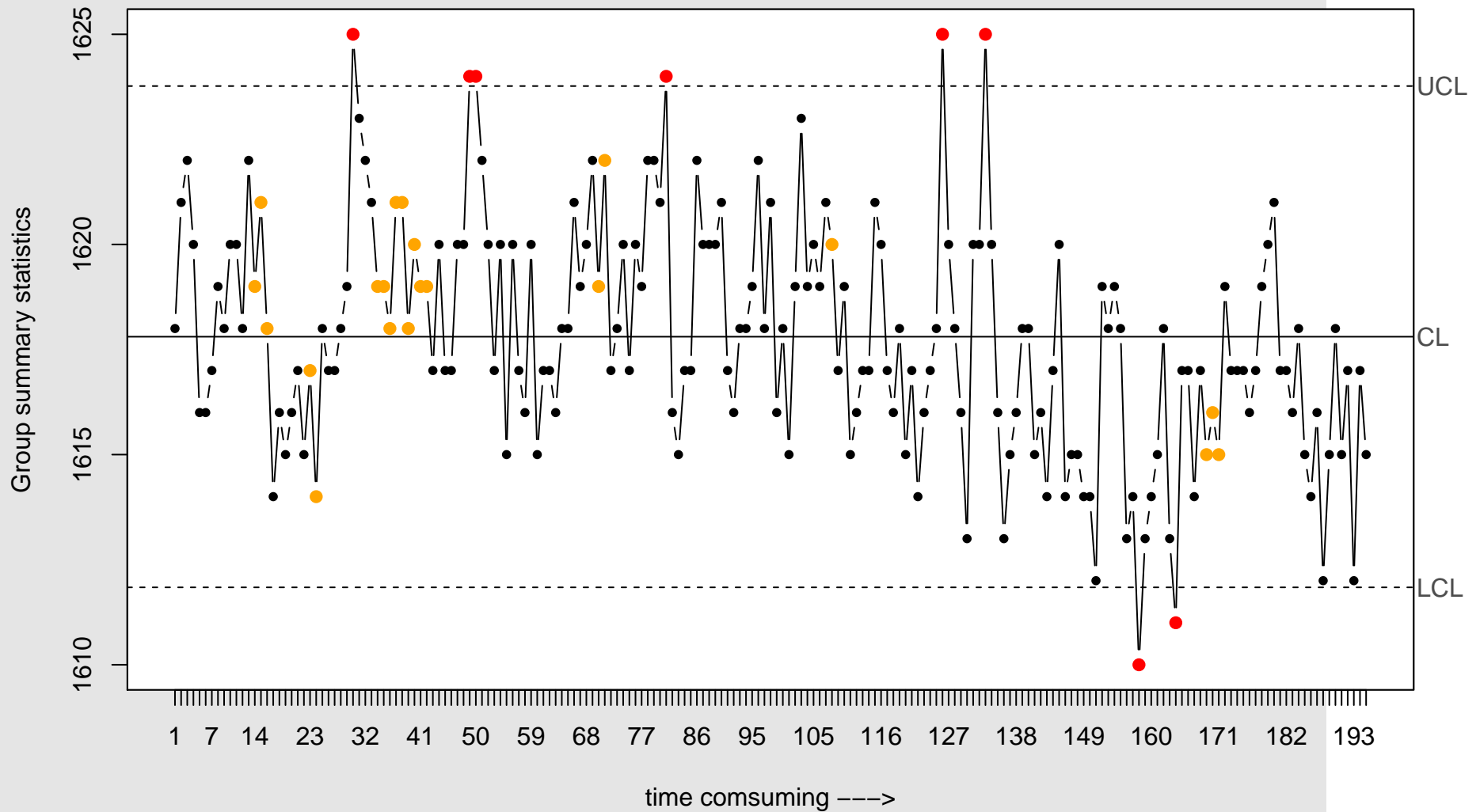
LCL = 1611.759

UCL = 1623.933

Number beyond limits = 7

Number violating runs = 12

258th column point of this product



Number of groups = 195

Center = 1617.805

StdDev = 1.987826

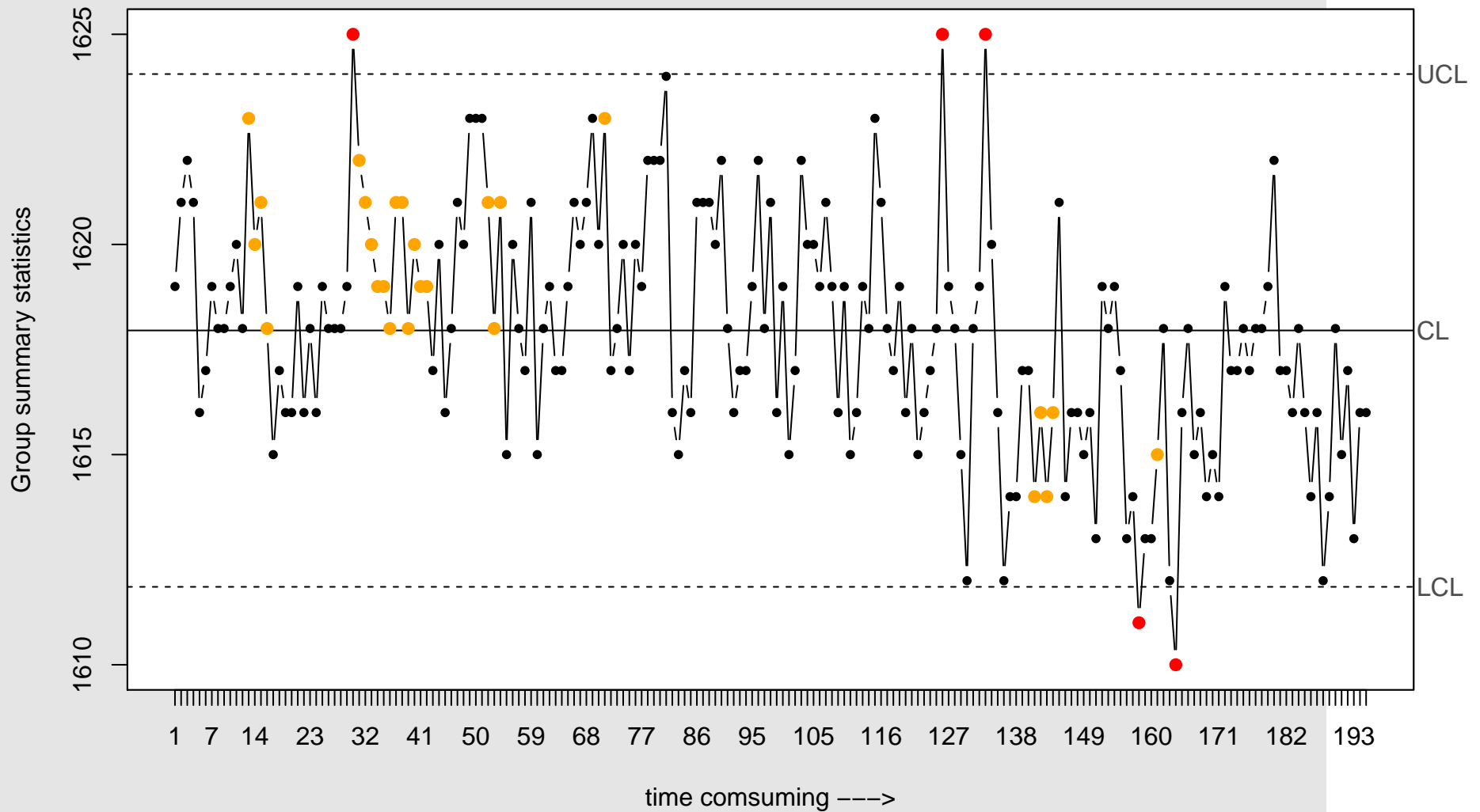
LCL = 1611.842

UCL = 1623.769

Number beyond limits = 8

Number violating runs = 20

259th column point of this product



Number of groups = 195

Center = 1617.954

StdDev = 2.033523

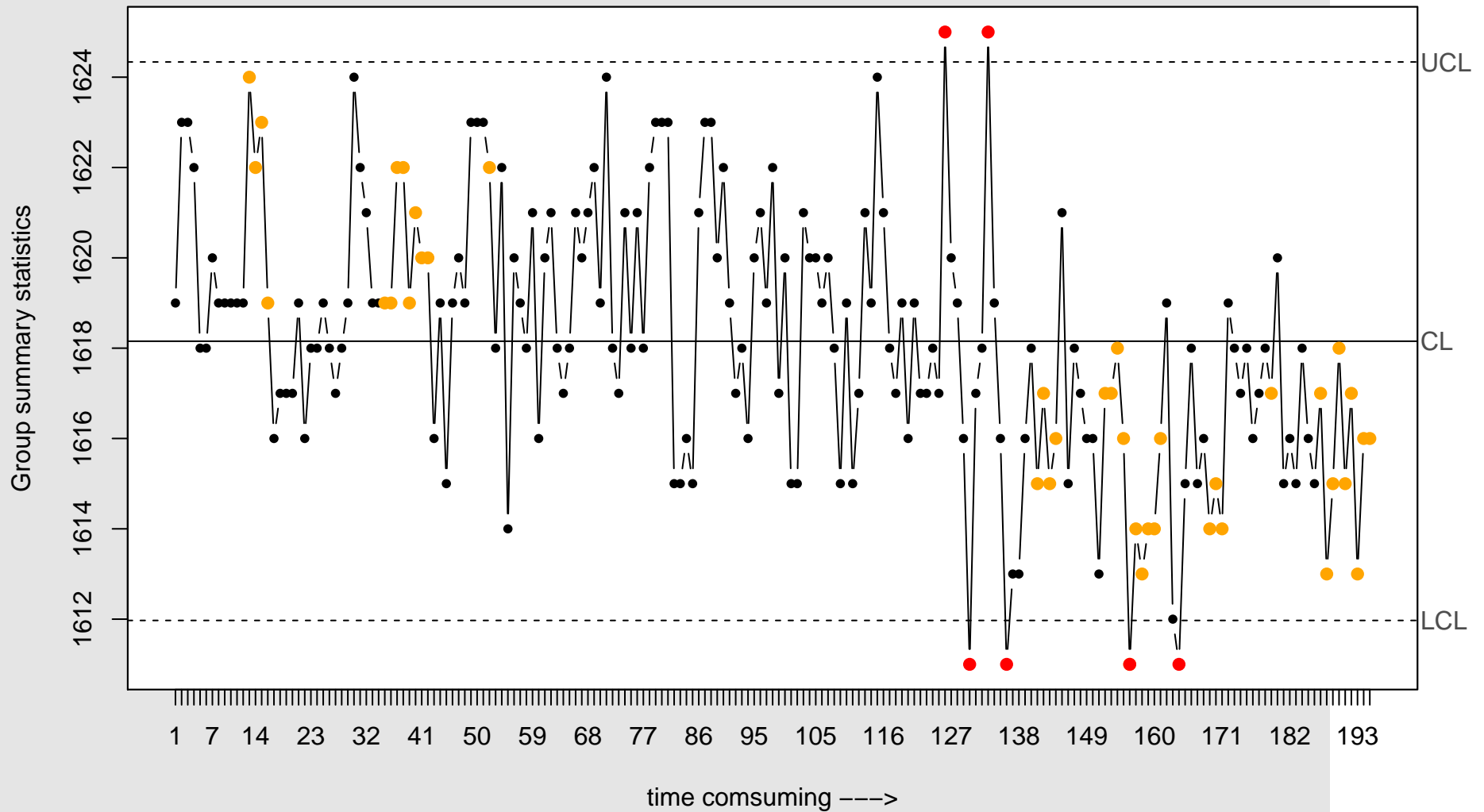
LCL = 1611.853

UCL = 1624.054

Number beyond limits = 5

Number violating runs = 25

260th column point of this product



Number of groups = 195

Center = 1618.154

StdDev = 2.060942

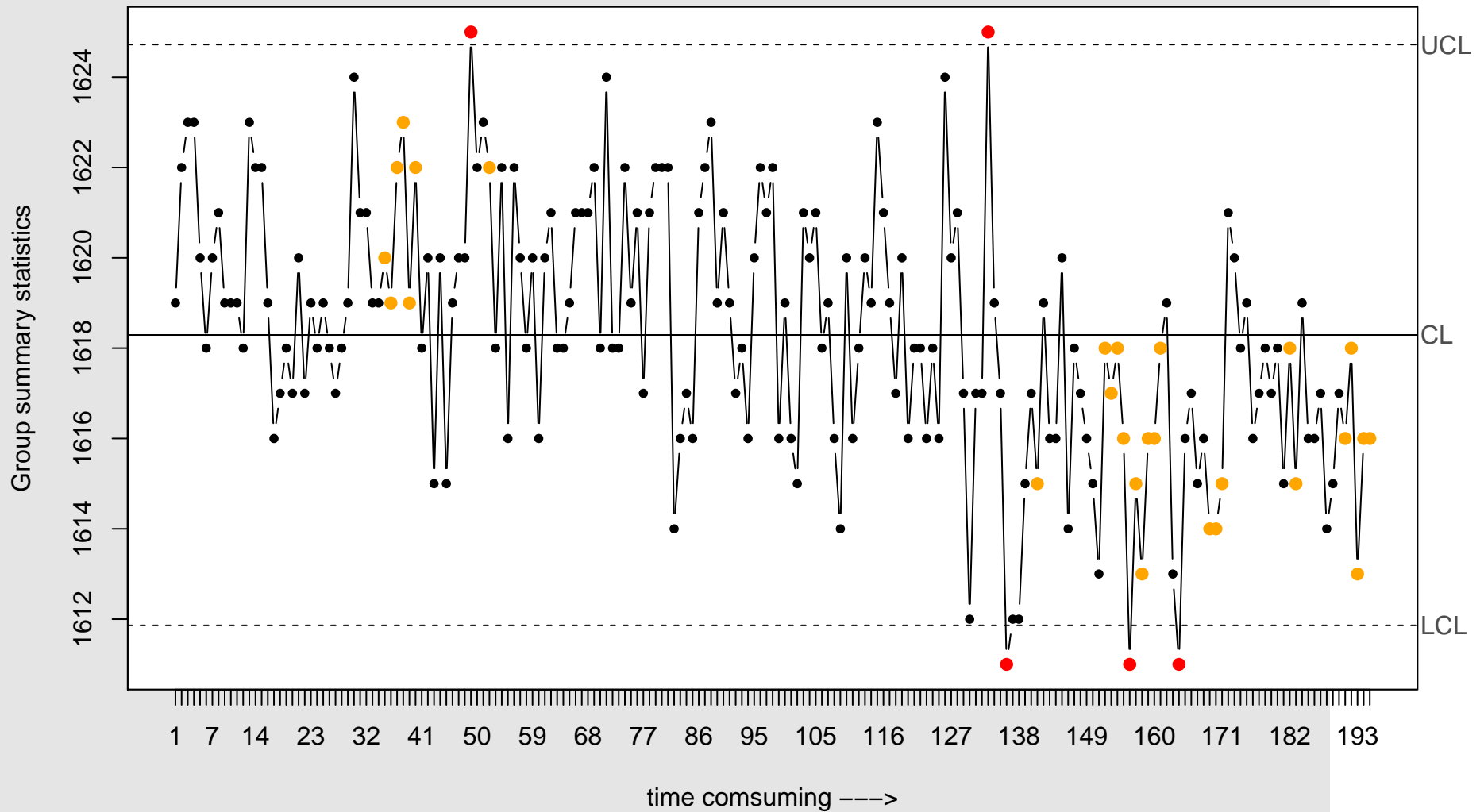
LCL = 1611.971

UCL = 1624.337

Number beyond limits = 6

Number violating runs = 40

261th column point of this product

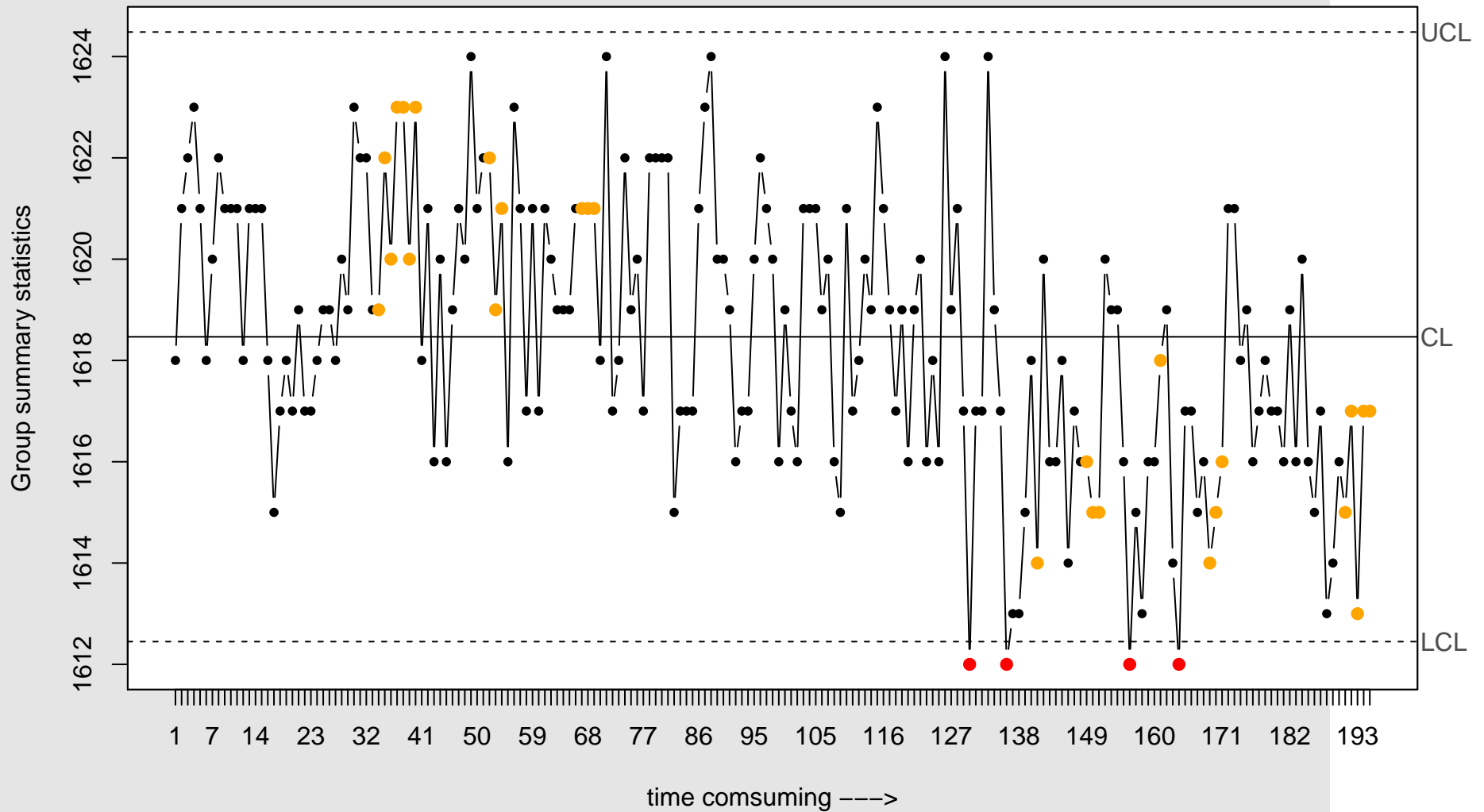


Number of groups = 195
Center = 1618.292
StdDev = 2.143197

LCL = 1611.863
UCL = 1624.722

Number beyond limits = 5
Number violating runs = 28

262th column point of this product



Number of groups = 195

Center = 1618.467

StdDev = 2.006105

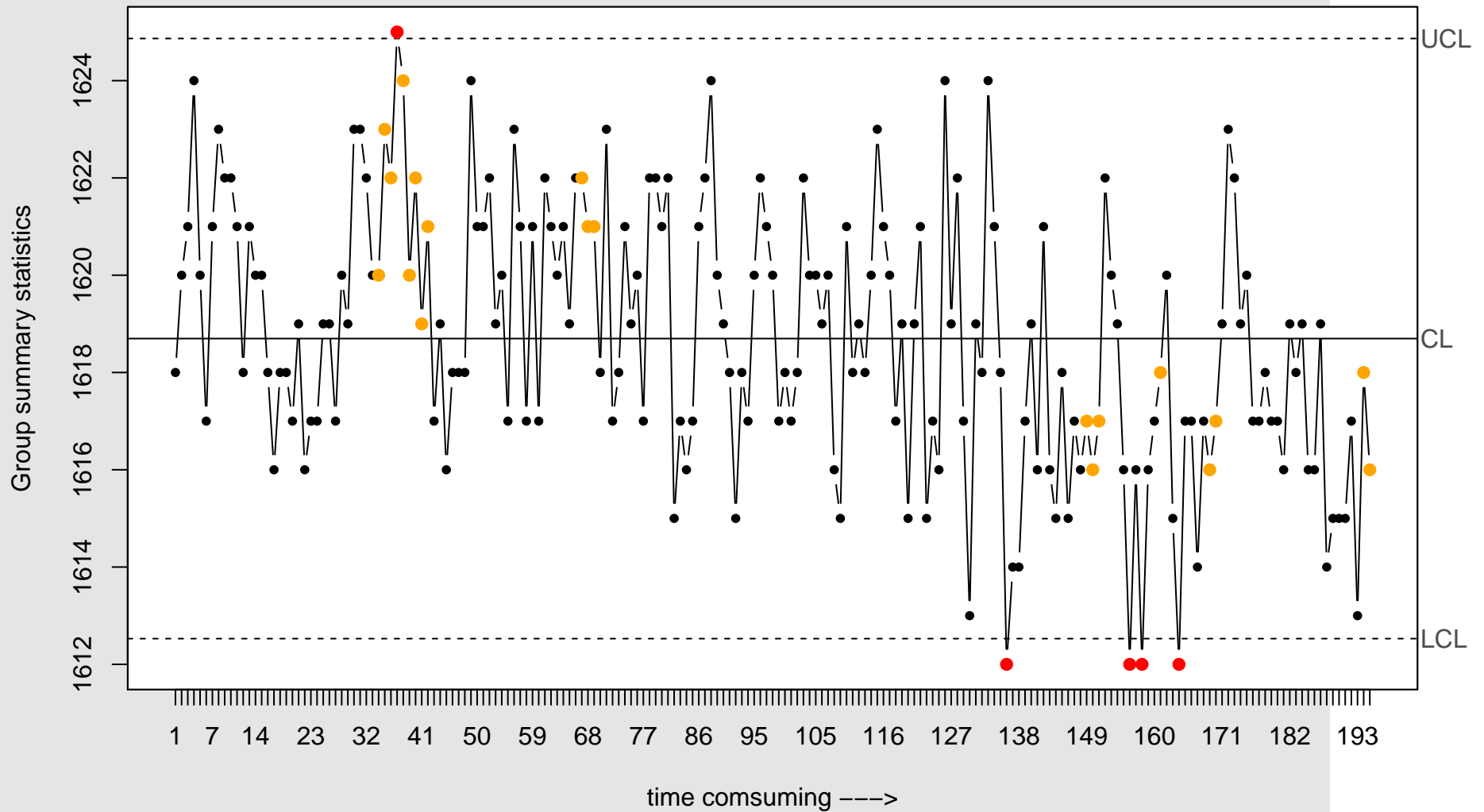
LCL = 1612.448

UCL = 1624.485

Number beyond limits = 4

Number violating runs = 26

263th column point of this product



Number of groups = 195

Center = 1618.697

StdDev = 2.056372

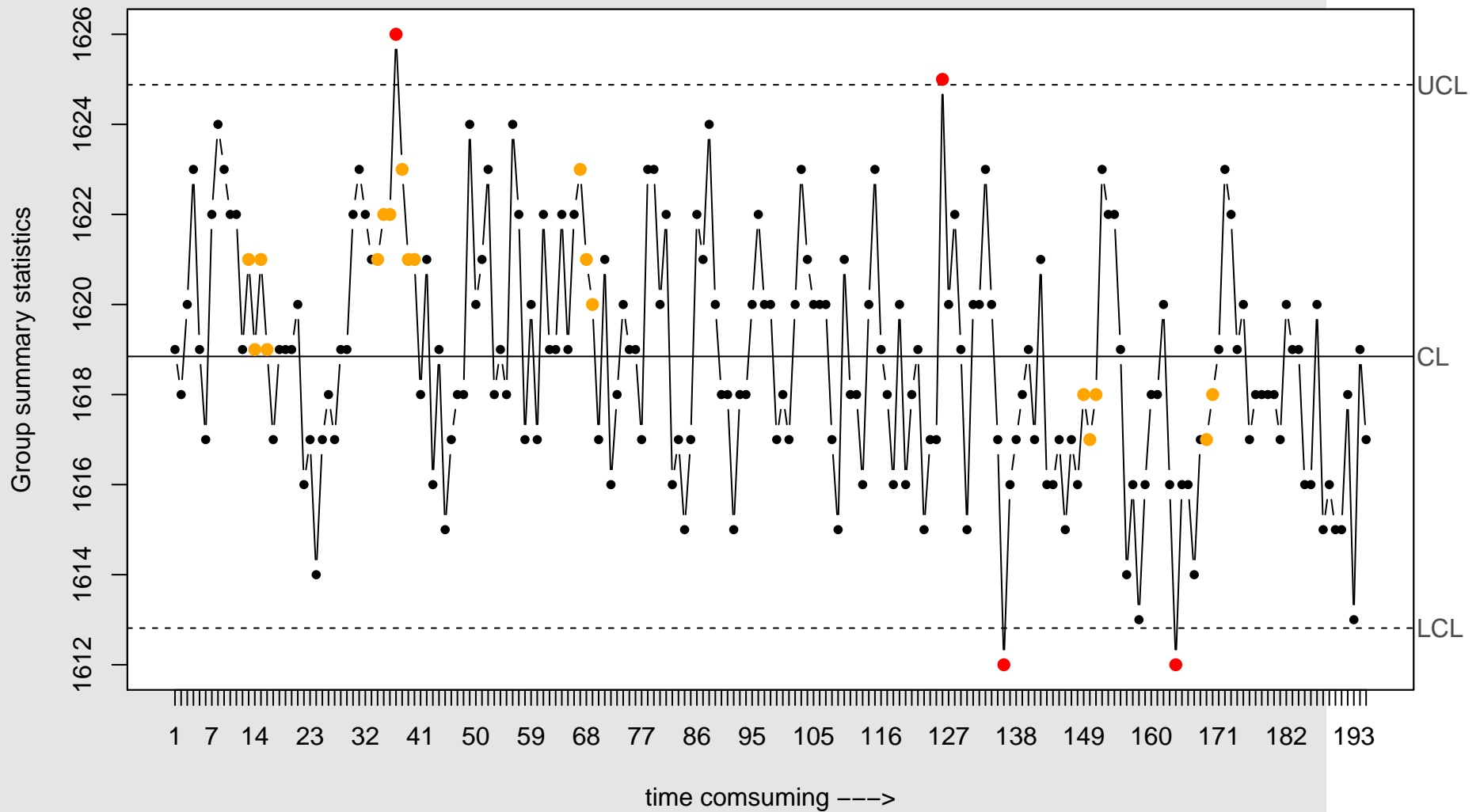
LCL = 1612.528

UCL = 1624.867

Number beyond limits = 5

Number violating runs = 20

264th column point of this product



Number of groups = 195

Center = 1618.846

StdDev = 2.010675

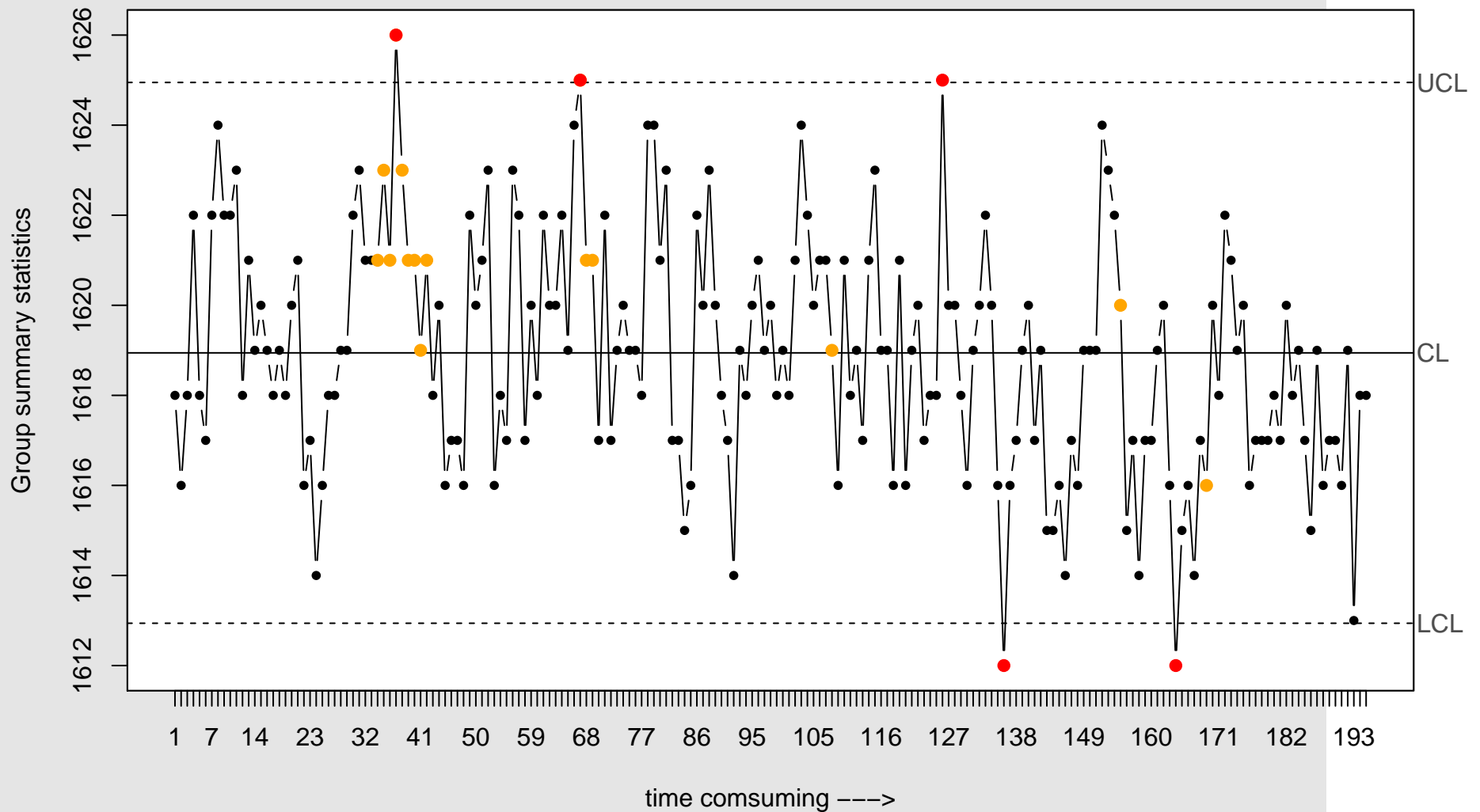
LCL = 1612.814

UCL = 1624.878

Number beyond limits = 4

Number violating runs = 19

265th column point of this product



Number of groups = 195

Center = 1618.944

StdDev = 2.001535

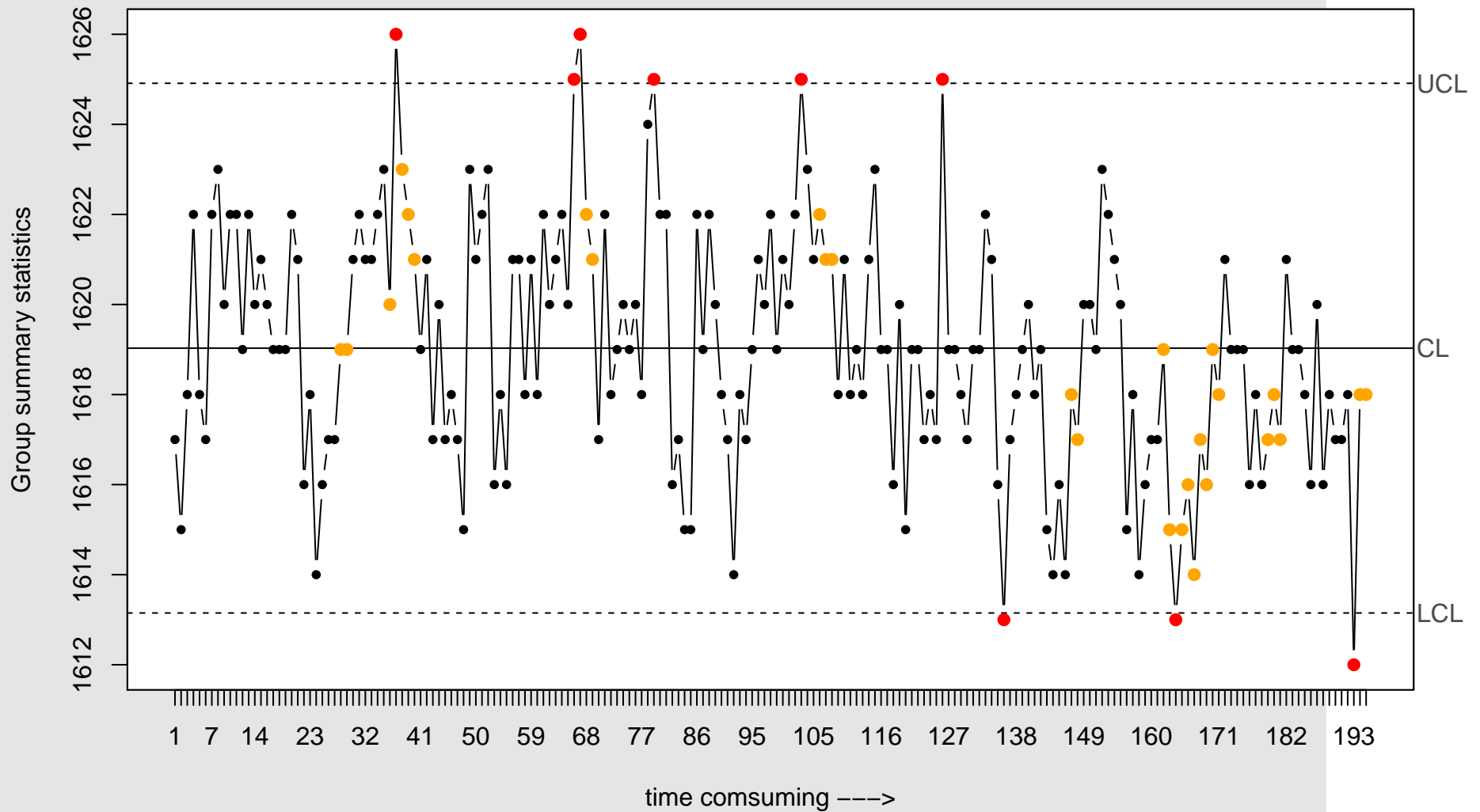
LCL = 1612.939

UCL = 1624.948

Number beyond limits = 5

Number violating runs = 15

266th column point of this product



Number of groups = 195

Center = 1619.031

StdDev = 1.960408

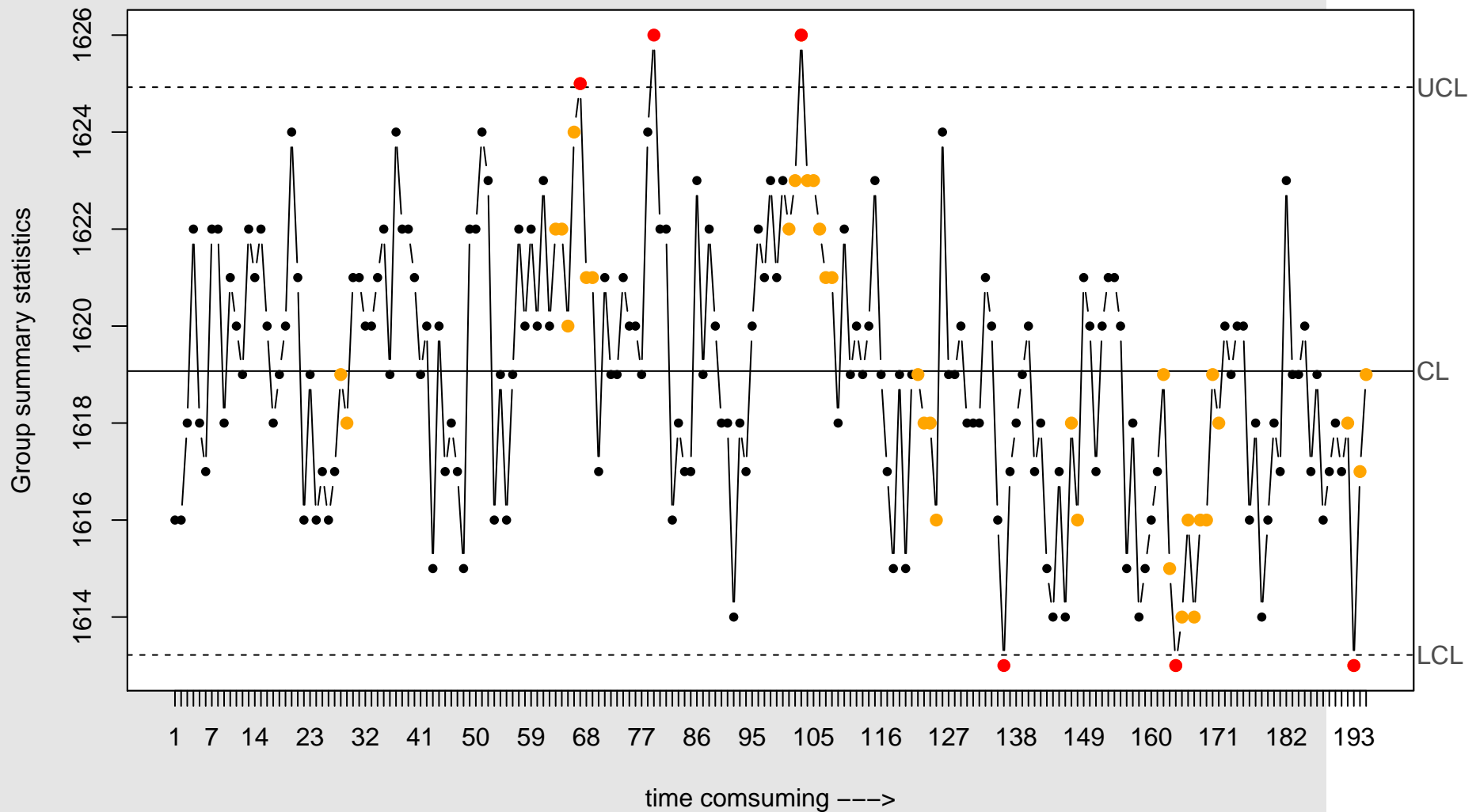
LCL = 1613.15

UCL = 1624.912

Number beyond limits = 9

Number violating runs = 30

267th column point of this product



Number of groups = 195

Center = 1619.072

StdDev = 1.951269

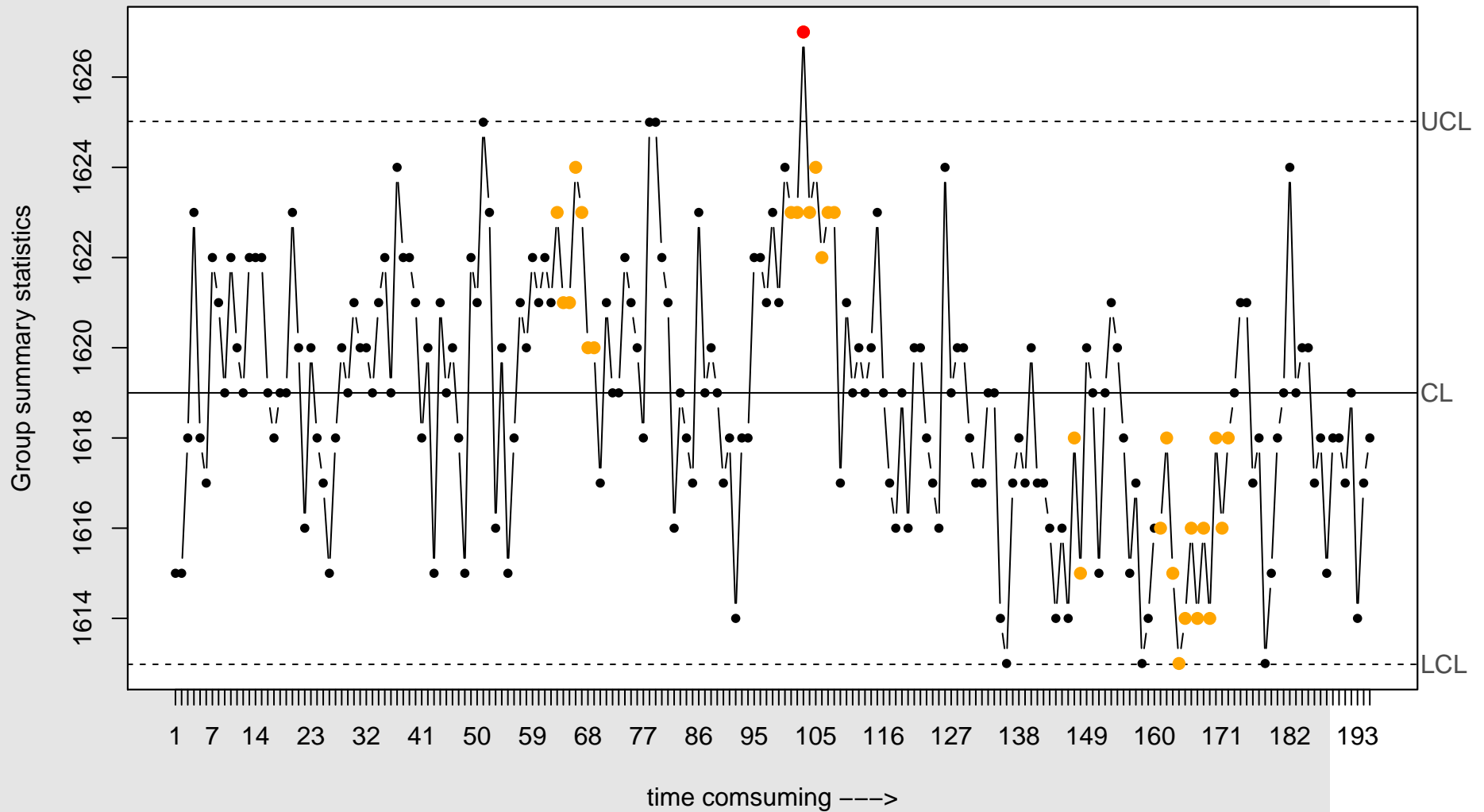
LCL = 1613.218

UCL = 1624.926

Number beyond limits = 6

Number violating runs = 37

268th column point of this product



Number of groups = 195

Center = 1619

StdDev = 2.006105

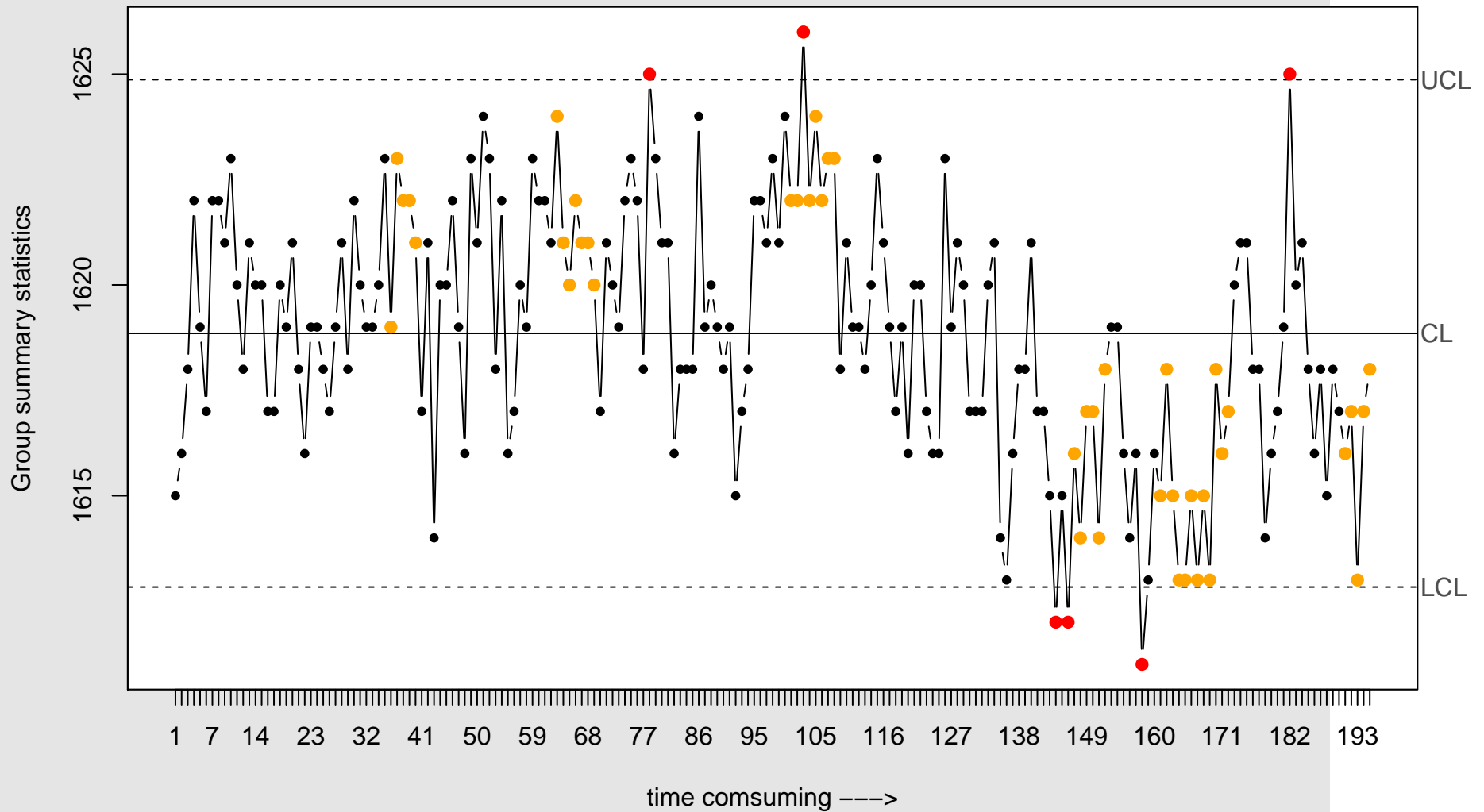
LCL = 1612.982

UCL = 1625.018

Number beyond limits = 1

Number violating runs = 29

269th column point of this product



Number of groups = 195

Center = 1618.851

StdDev = 2.006105

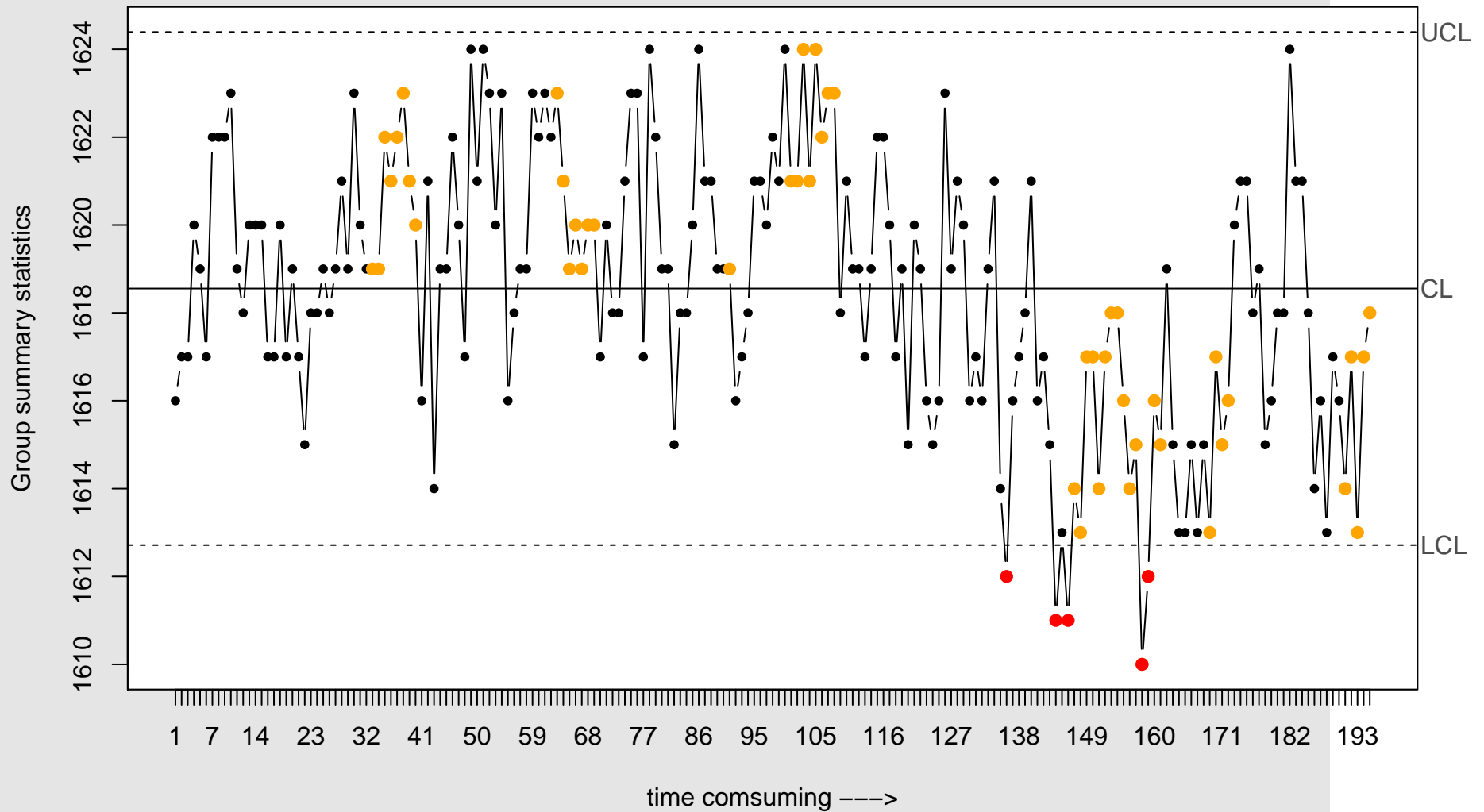
LCL = 1612.833

UCL = 1624.87

Number beyond limits = 6

Number violating runs = 43

270th column point of this product



Number of groups = 195

Center = 1618.554

StdDev = 1.946699

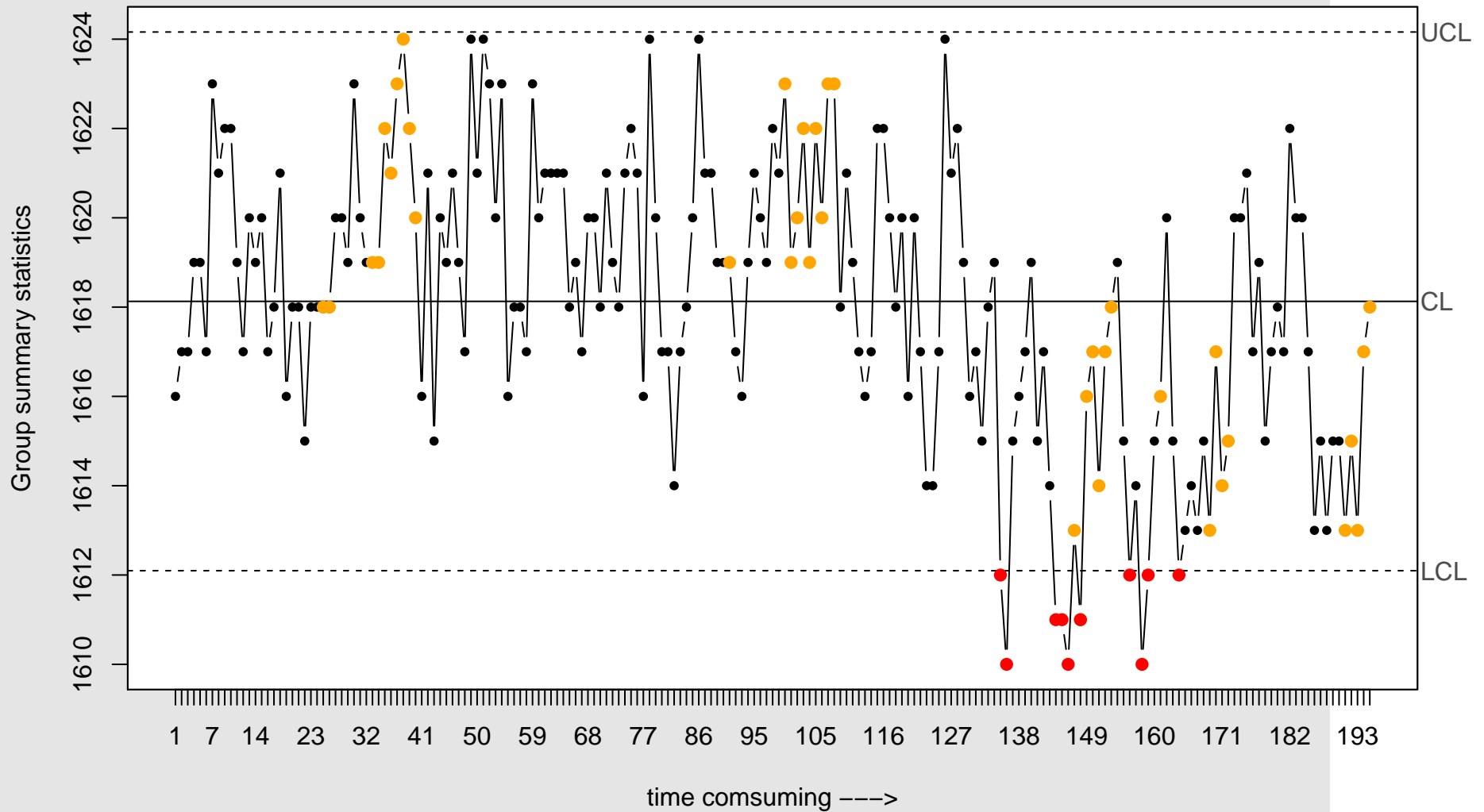
LCL = 1612.714

UCL = 1624.394

Number beyond limits = 5

Number violating runs = 48

271th column point of this product



Number of groups = 195

Center = 1618.128

StdDev = 2.010675

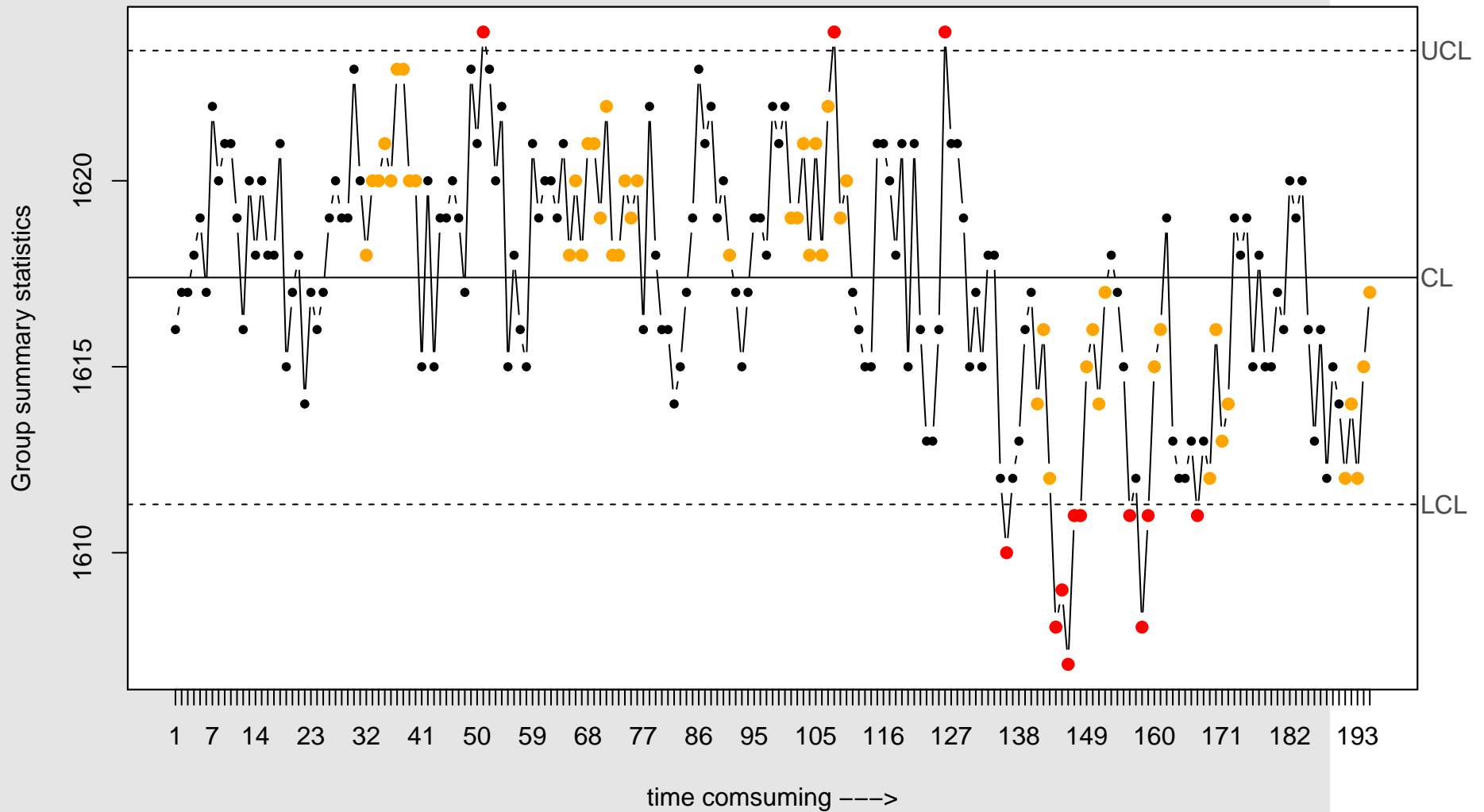
LCL = 1612.096

UCL = 1624.16

Number beyond limits = 10

Number violating runs = 37

272th column point of this product



Number of groups = 195

Center = 1617.4

StdDev = 2.033523

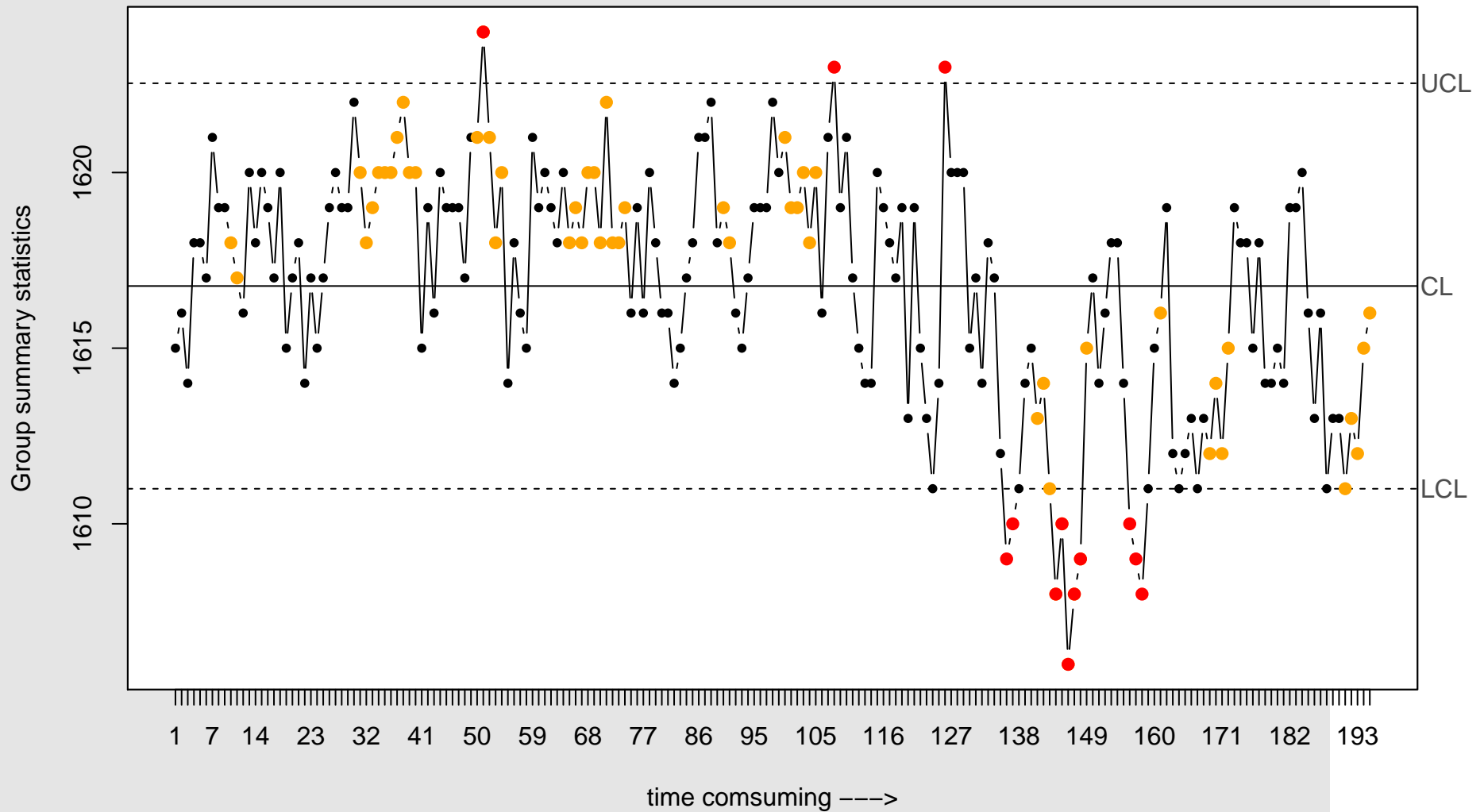
LCL = 1611.299

UCL = 1623.501

Number beyond limits = 13

Number violating runs = 55

273th column point of this product



Number of groups = 195

Center = 1616.769

StdDev = 1.92385

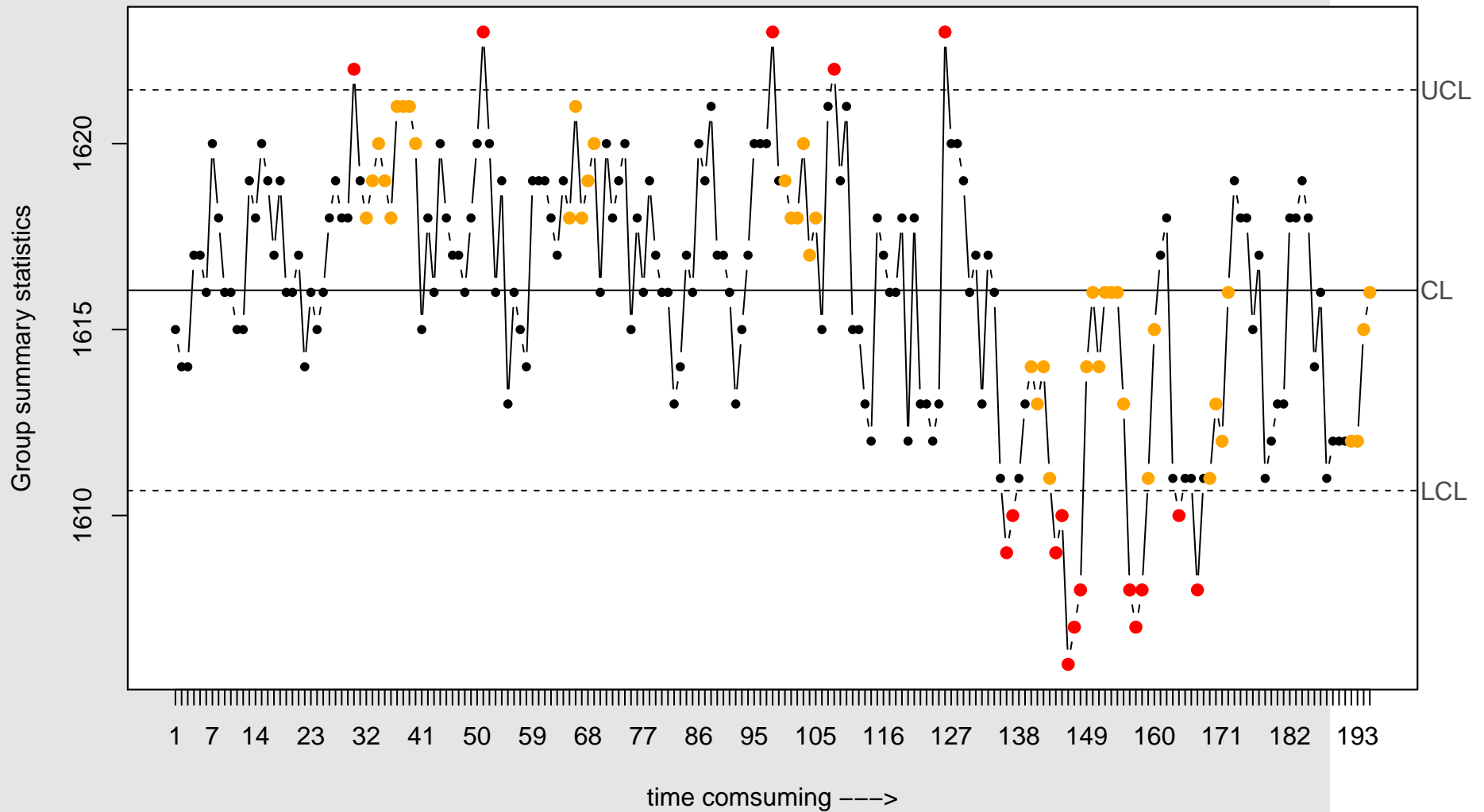
LCL = 1610.998

UCL = 1622.541

Number beyond limits = 13

Number violating runs = 54

274th column point of this product



Number of groups = 195

Center = 1616.056

StdDev = 1.795898

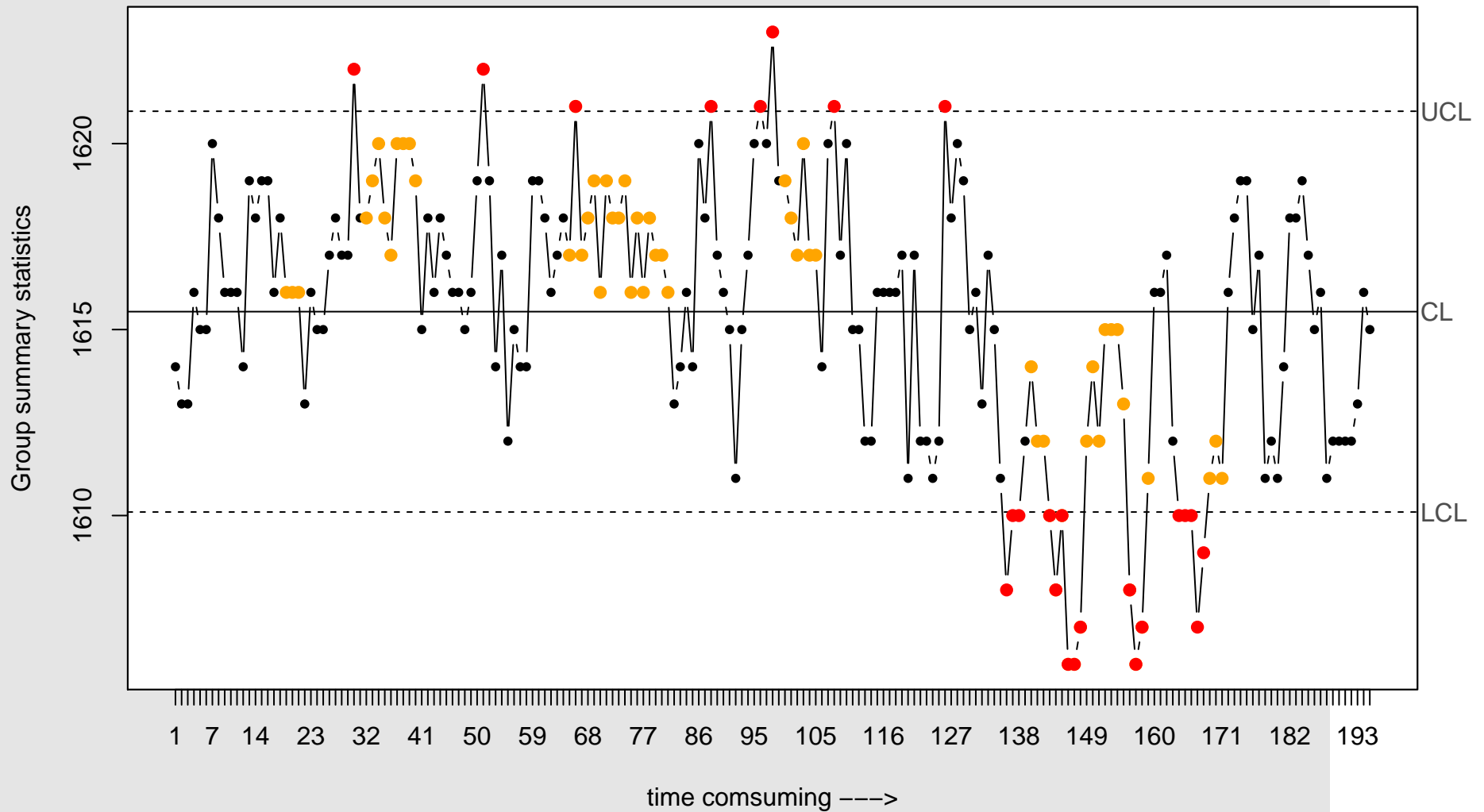
LCL = 1610.669

UCL = 1621.444

Number beyond limits = 17

Number violating runs = 49

275th column point of this product



Number of groups = 195

Center = 1615.482

StdDev = 1.795898

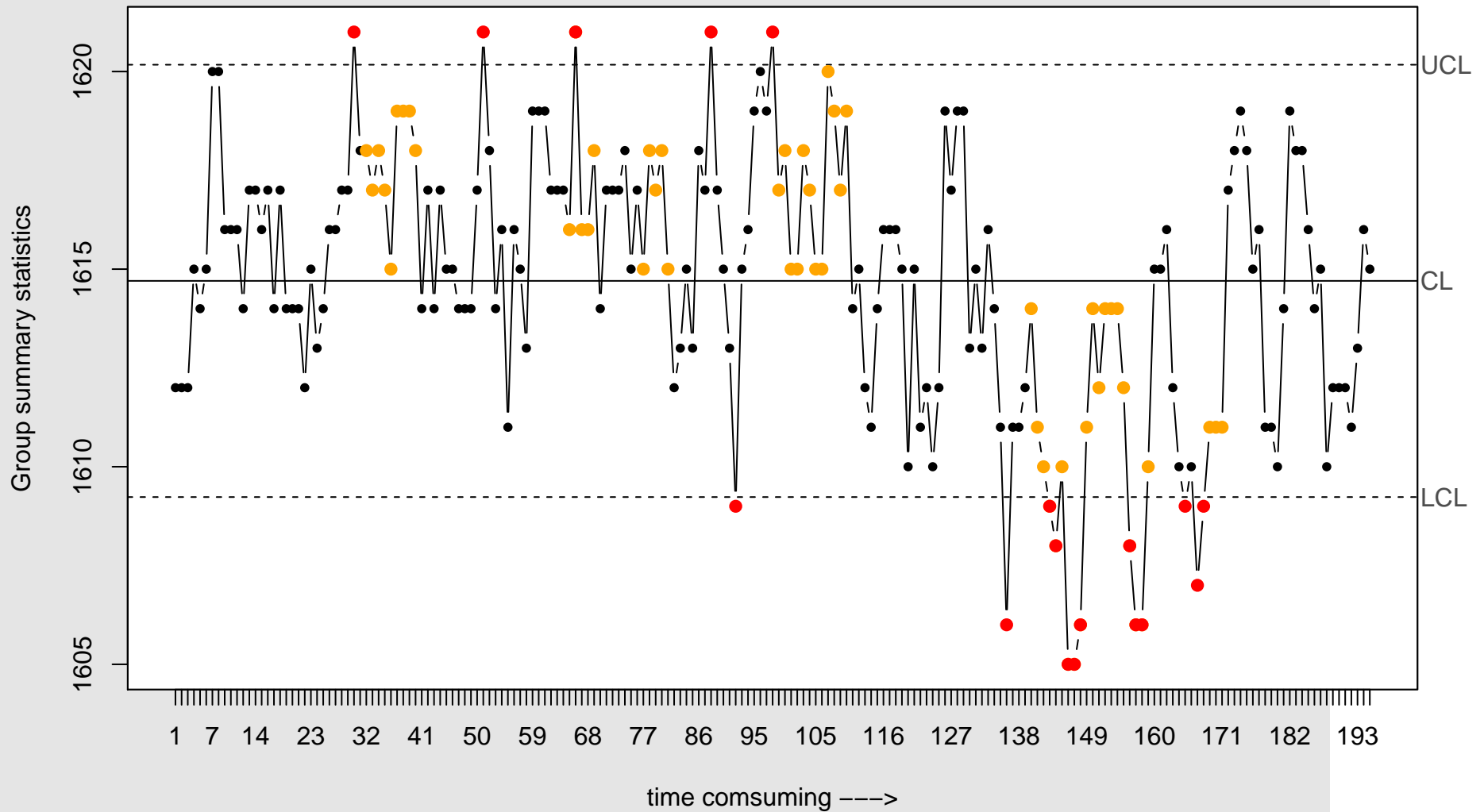
LCL = 1610.094

UCL = 1620.87

Number beyond limits = 25

Number violating runs = 58

276th column point of this product

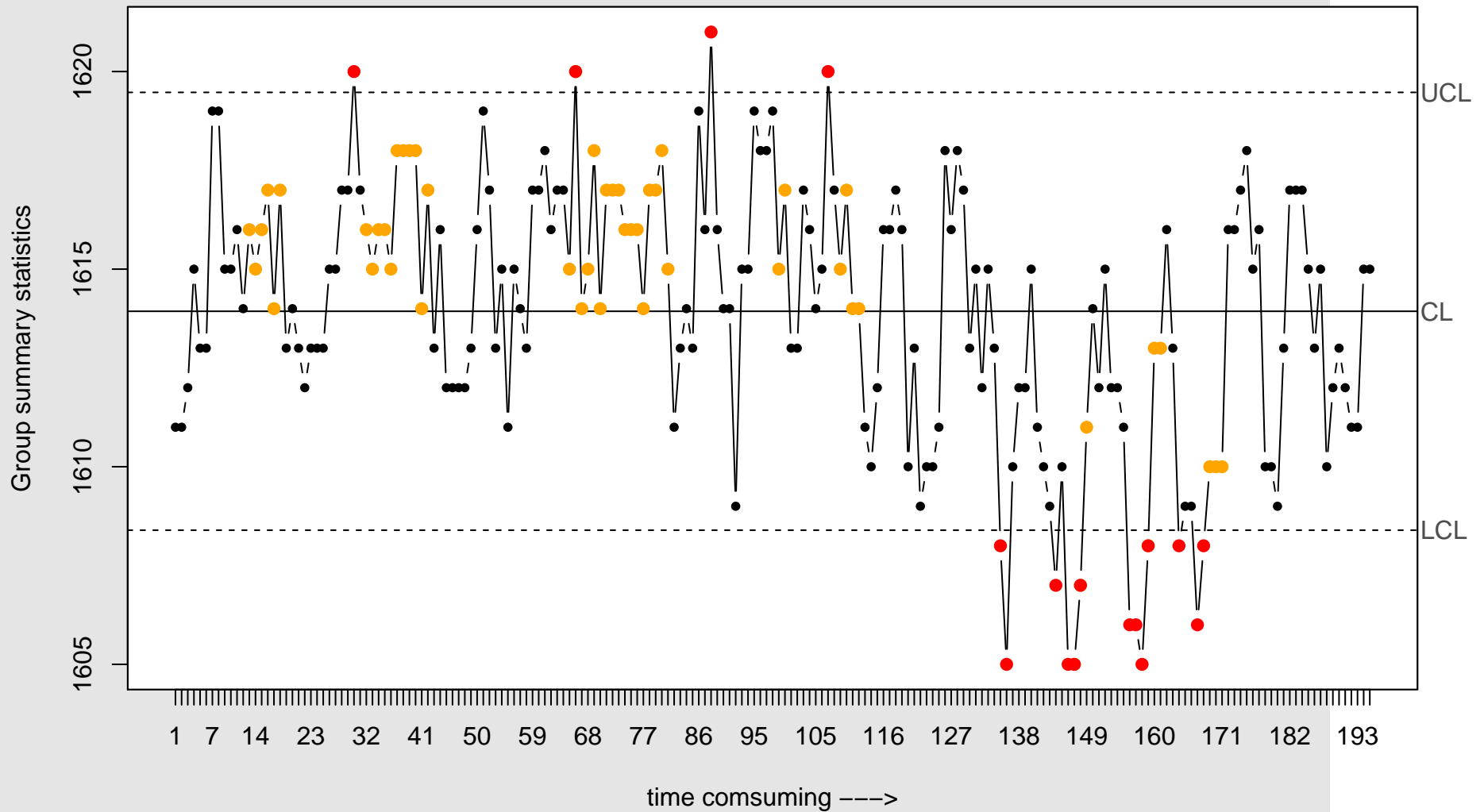


Number of groups = 195
 Center = 1614.703
 StdDev = 1.823317

LCL = 1609.233
 UCL = 1620.173

Number beyond limits = 18
 Number violating runs = 54

277th column point of this product



Number of groups = 195

Center = 1613.933

StdDev = 1.846165

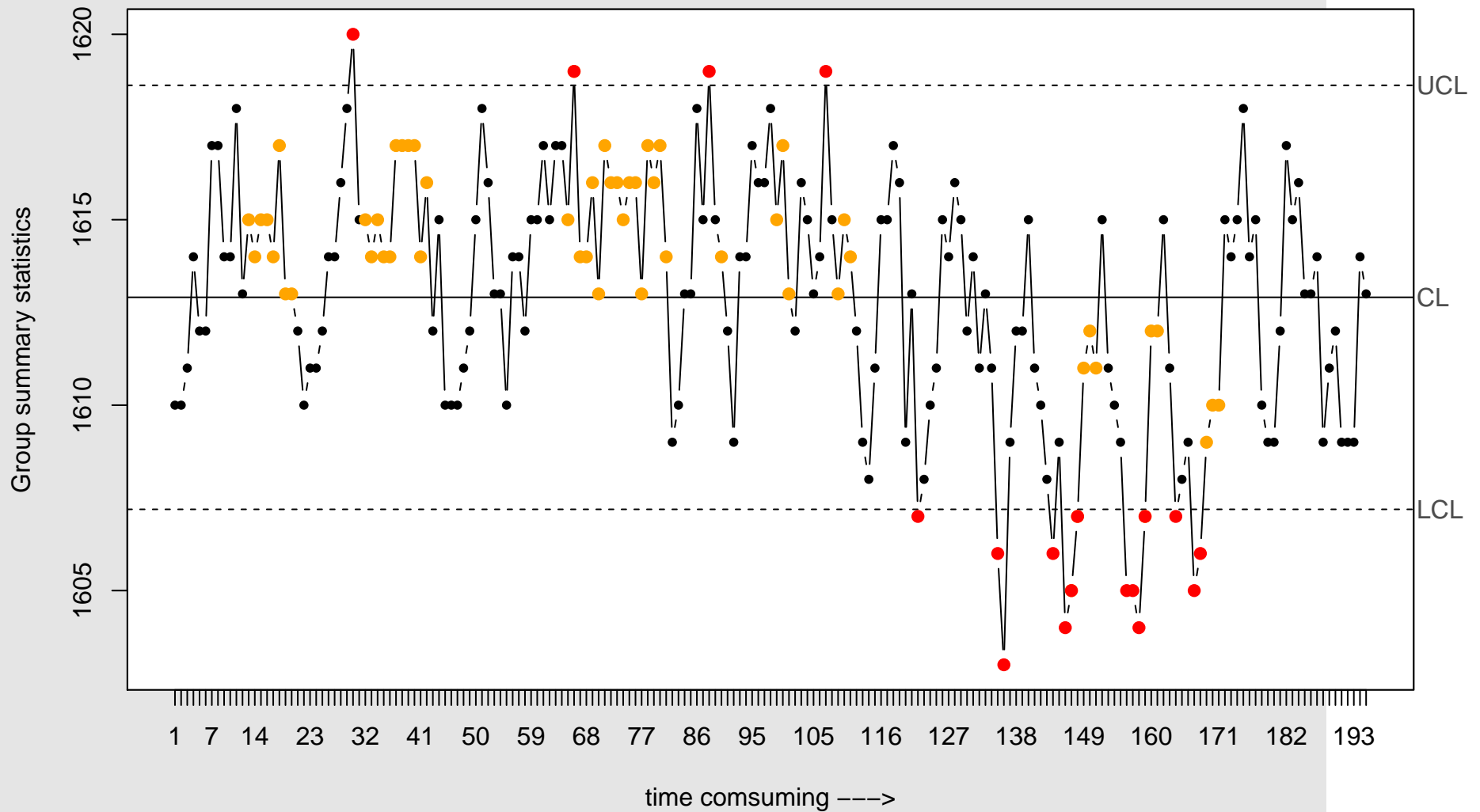
LCL = 1608.395

UCL = 1619.472

Number beyond limits = 17

Number violating runs = 49

278th column point of this product



Number of groups = 195

Center = 1612.908

StdDev = 1.905571

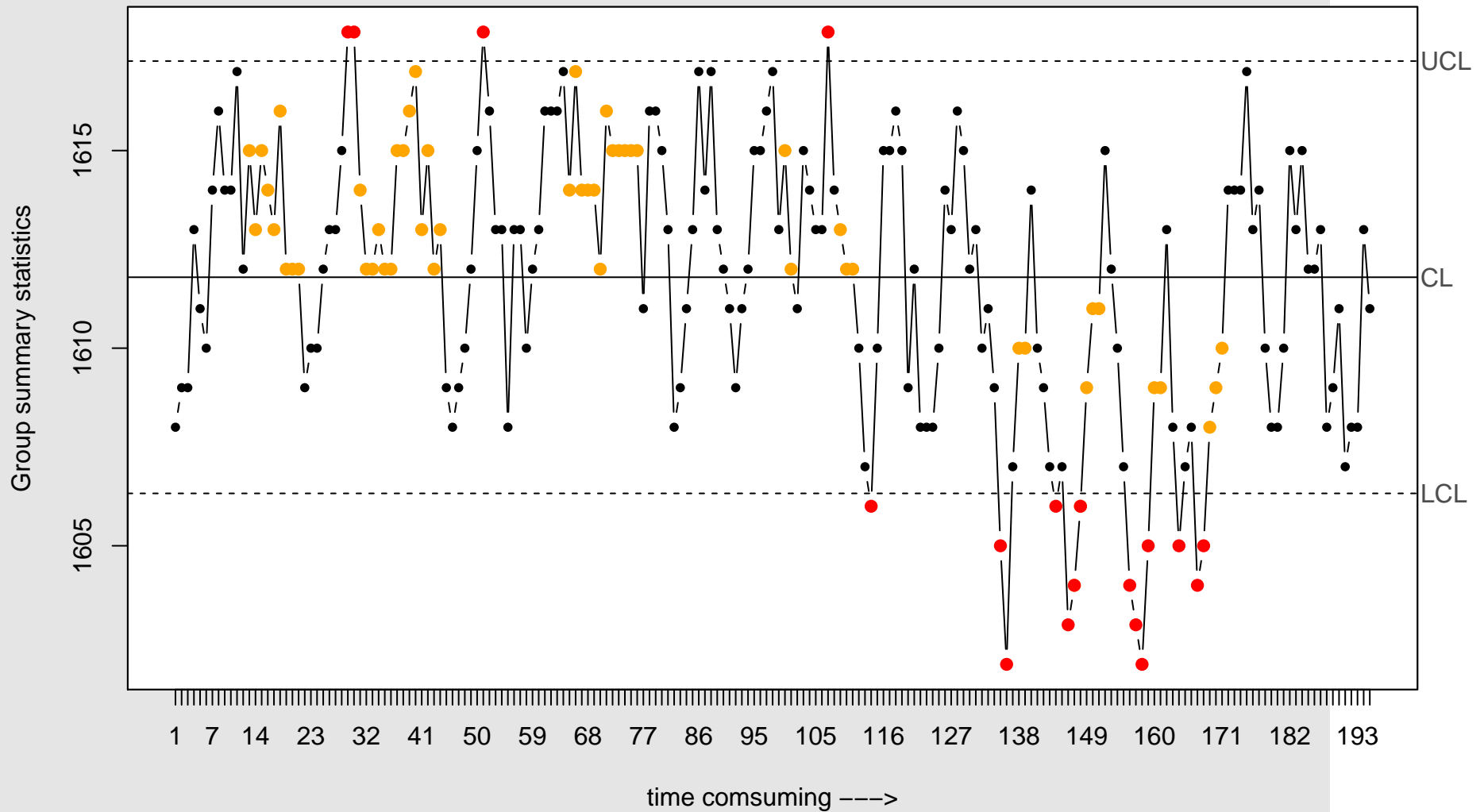
LCL = 1607.191

UCL = 1618.624

Number beyond limits = 18

Number violating runs = 54

279th column point of this product



Number of groups = 195

Center = 1611.795

StdDev = 1.823317

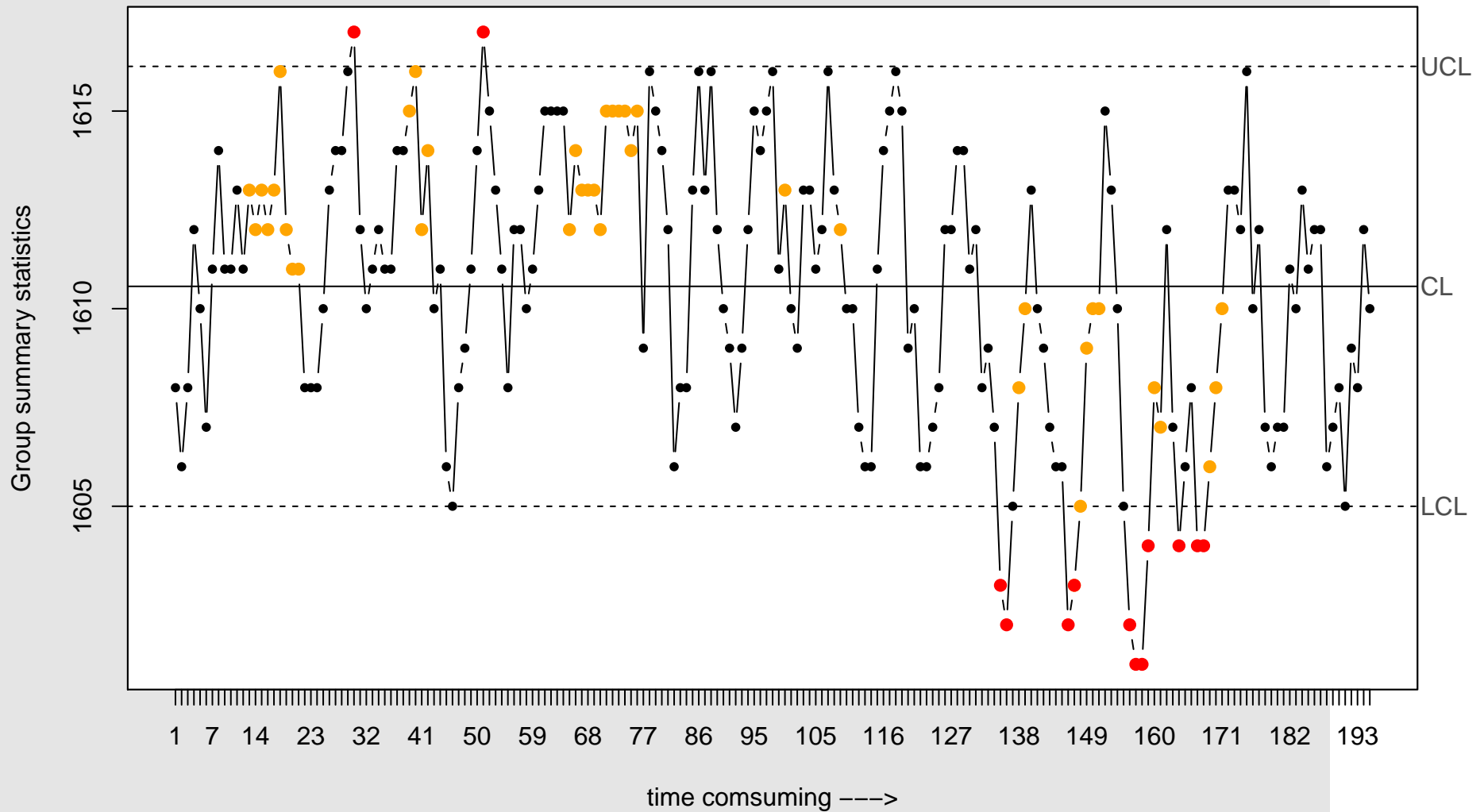
LCL = 1606.325

UCL = 1617.265

Number beyond limits = 18

Number violating runs = 52

280th column point of this product



Number of groups = 195

Center = 1610.564

StdDev = 1.855305

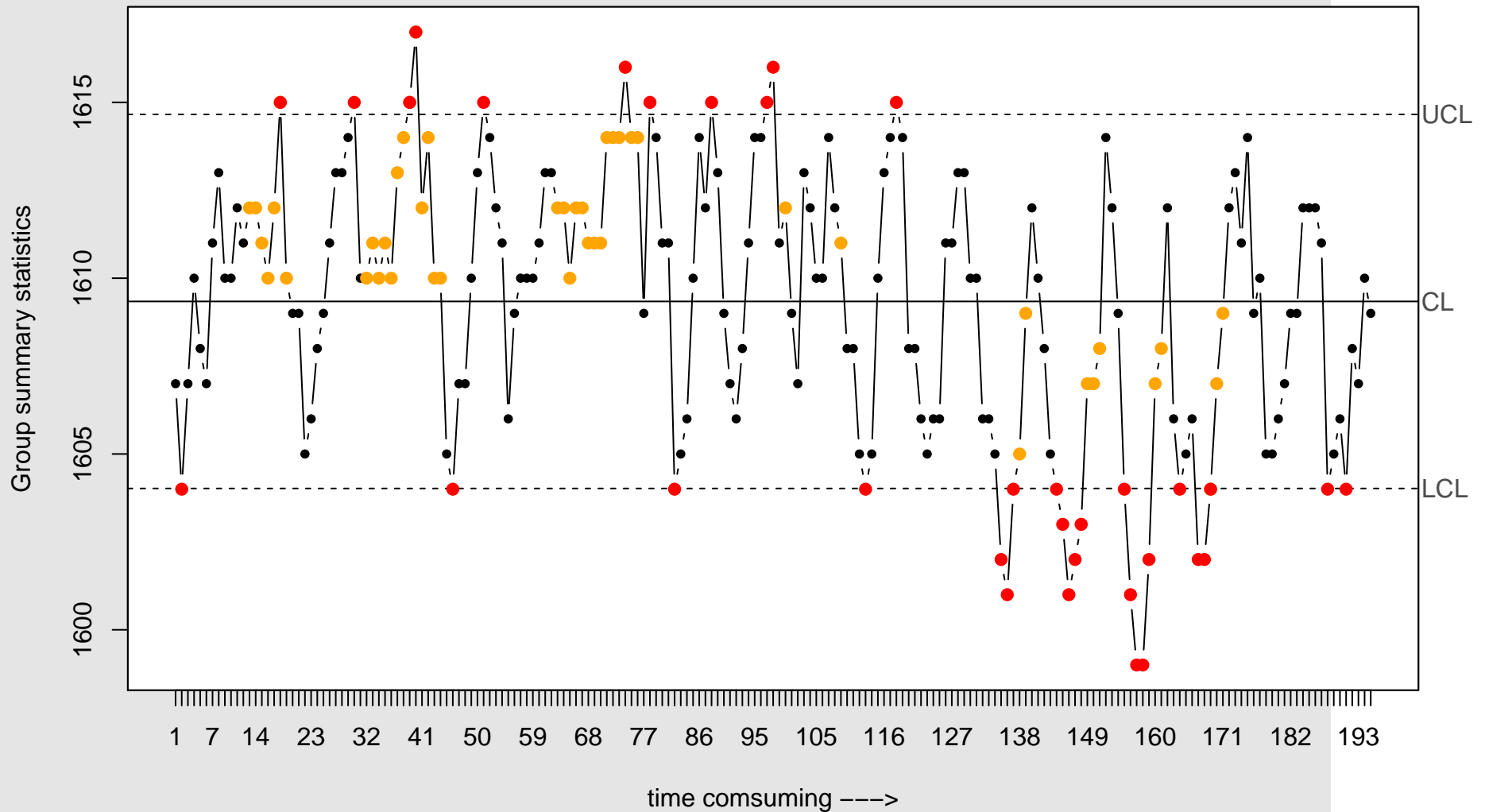
LCL = 1604.998

UCL = 1616.13

Number beyond limits = 13

Number violating runs = 39

281th column point of this product



Number of groups = 195

Center = 1609.338

StdDev = 1.77305

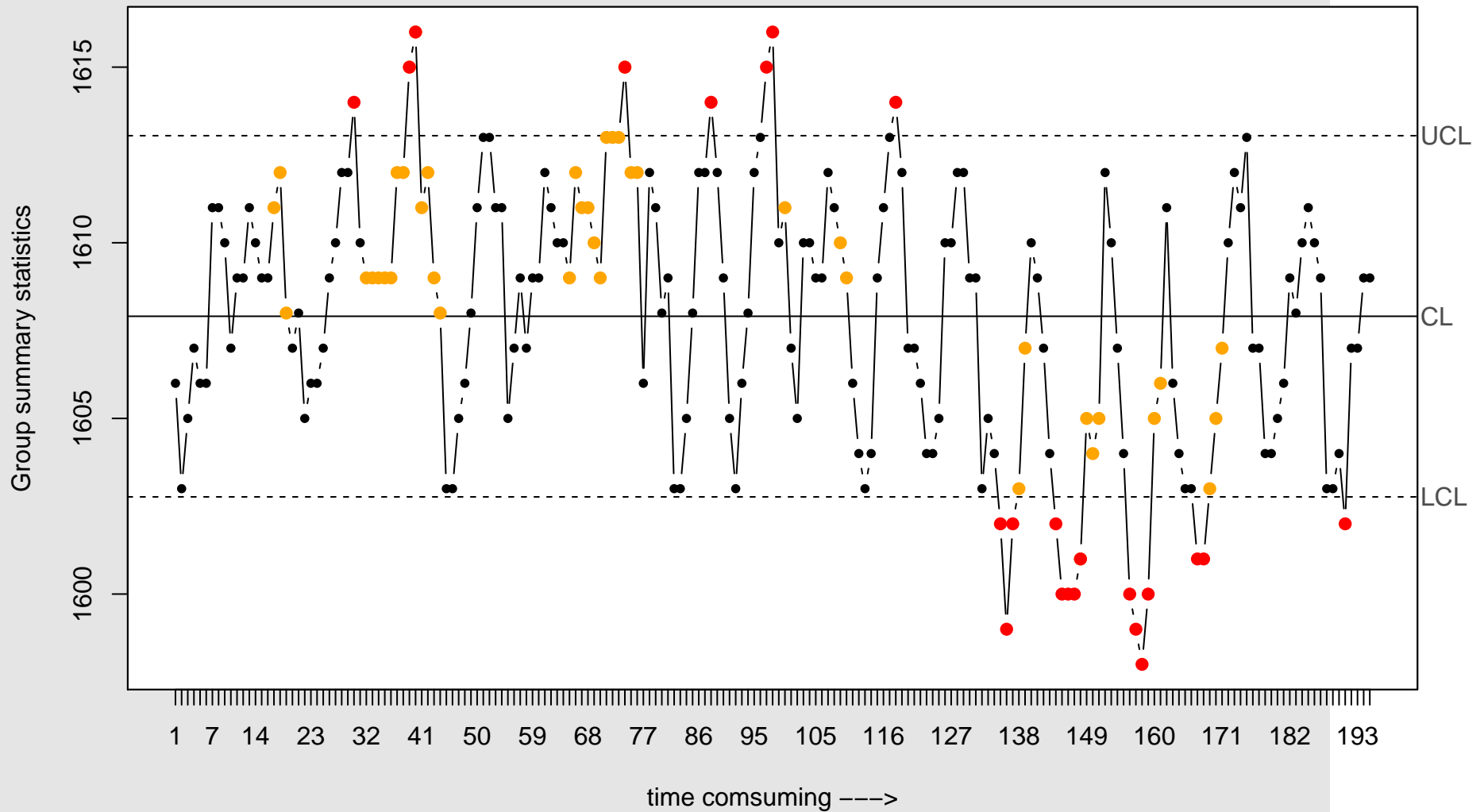
LCL = 1604.019

UCL = 1614.658

Number beyond limits = 34

Number violating runs = 47

282th column point of this product



Number of groups = 195

Center = 1607.908

StdDev = 1.713643

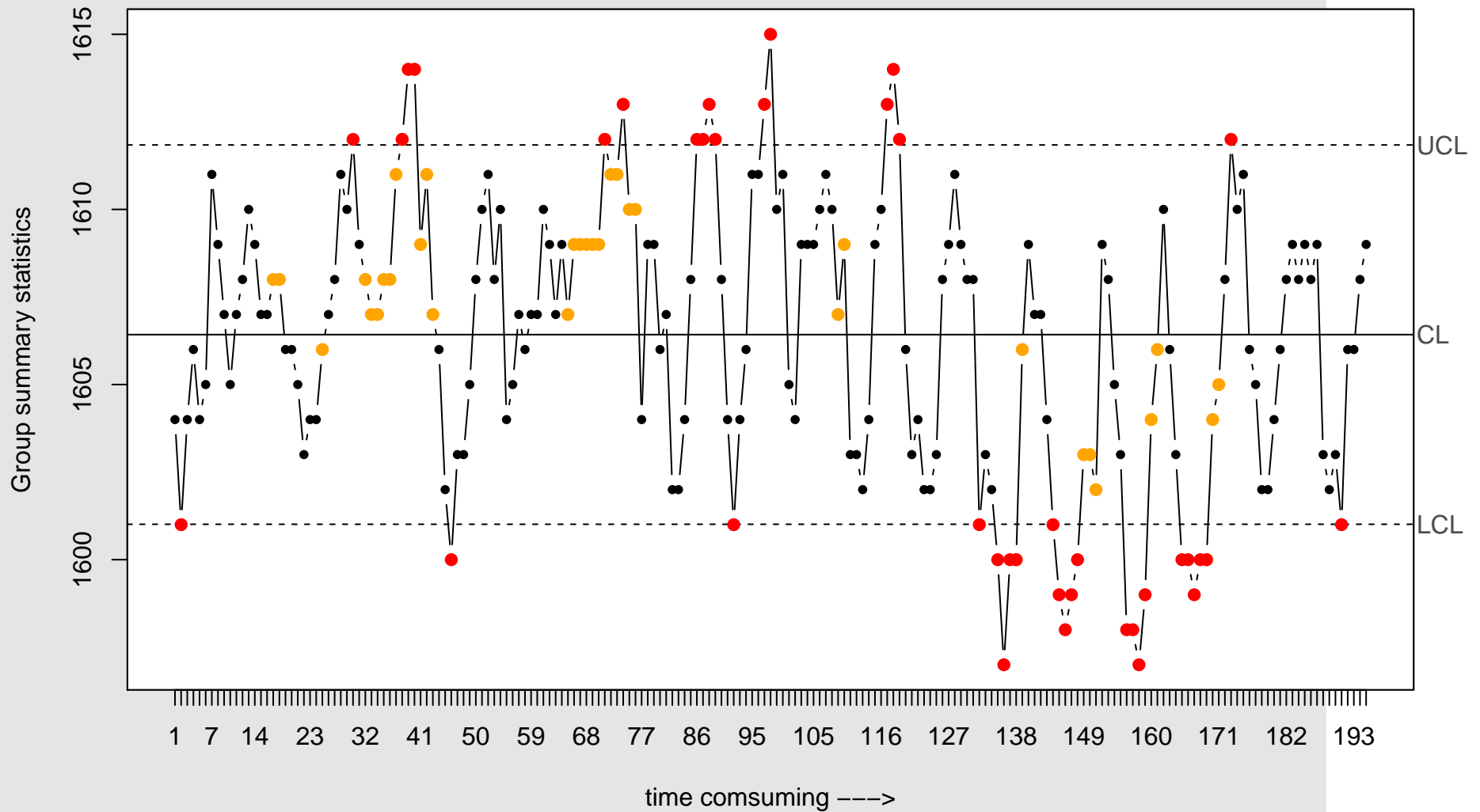
LCL = 1602.767

UCL = 1613.049

Number beyond limits = 23

Number violating runs = 42

283th column point of this product



Number of groups = 195

Center = 1606.426

StdDev = 1.805038

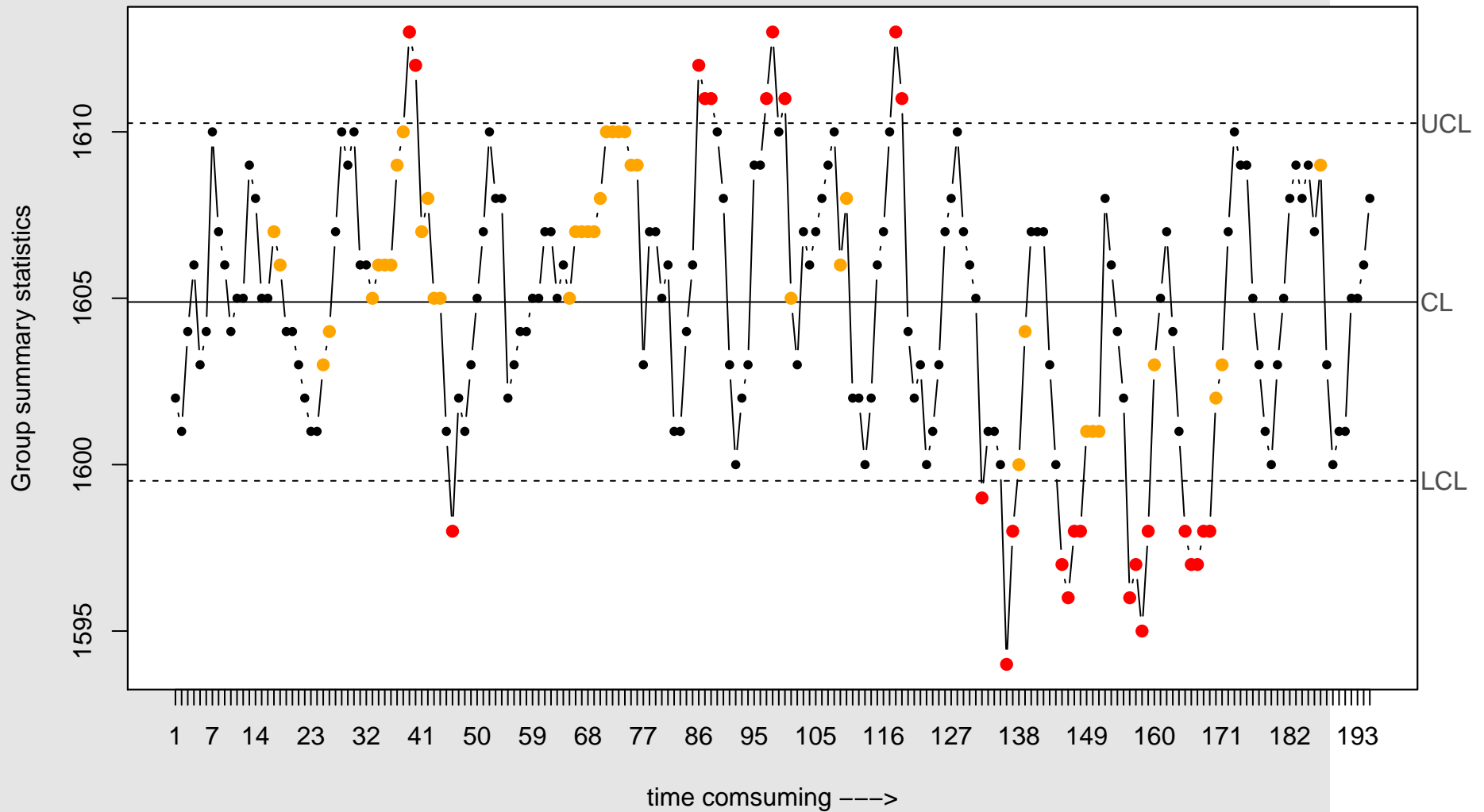
LCL = 1601.011

UCL = 1611.841

Number beyond limits = 39

Number violating runs = 39

284th column point of this product



Number of groups = 195

Center = 1604.887

StdDev = 1.791329

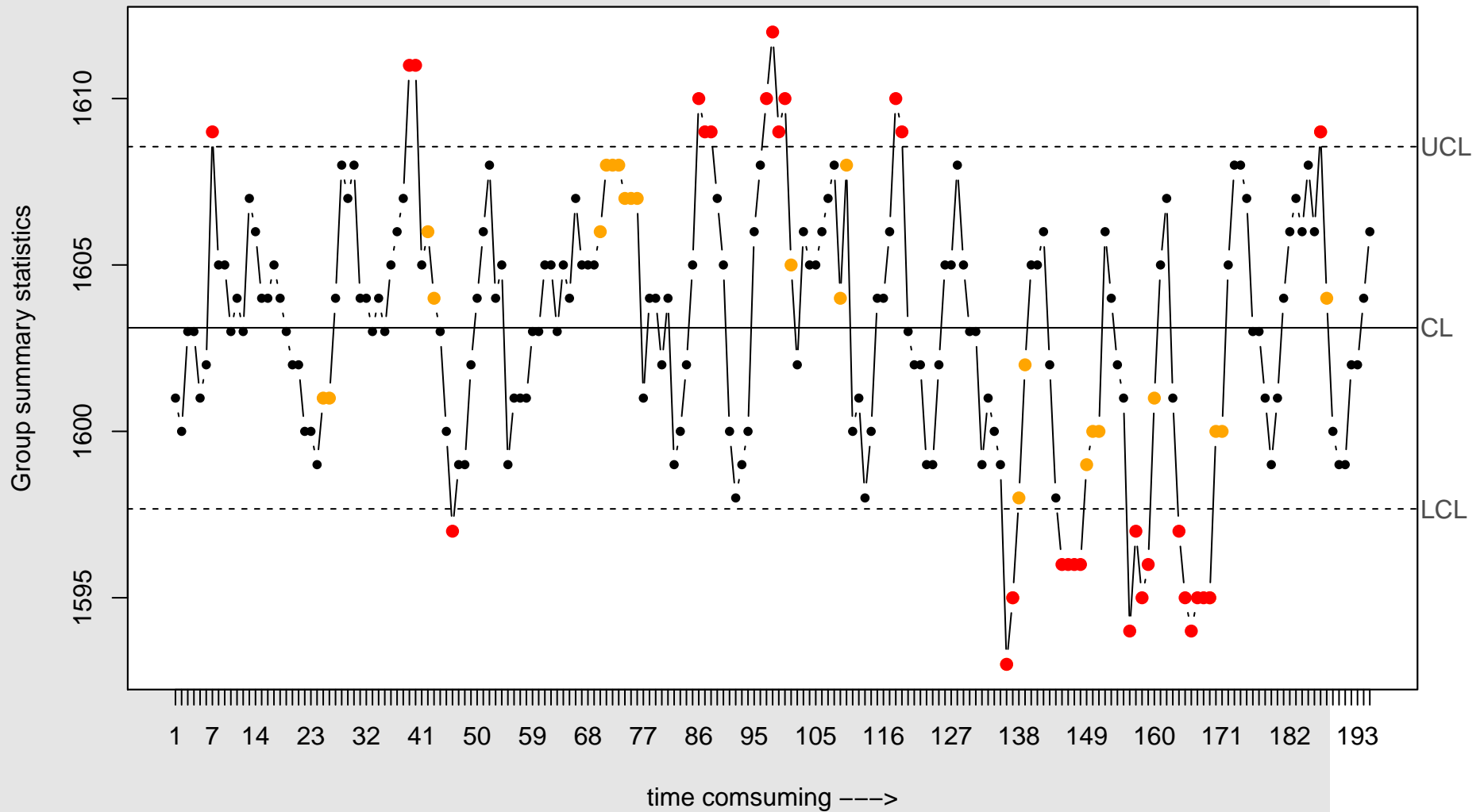
LCL = 1599.513

UCL = 1610.261

Number beyond limits = 27

Number violating runs = 41

285th column point of this product

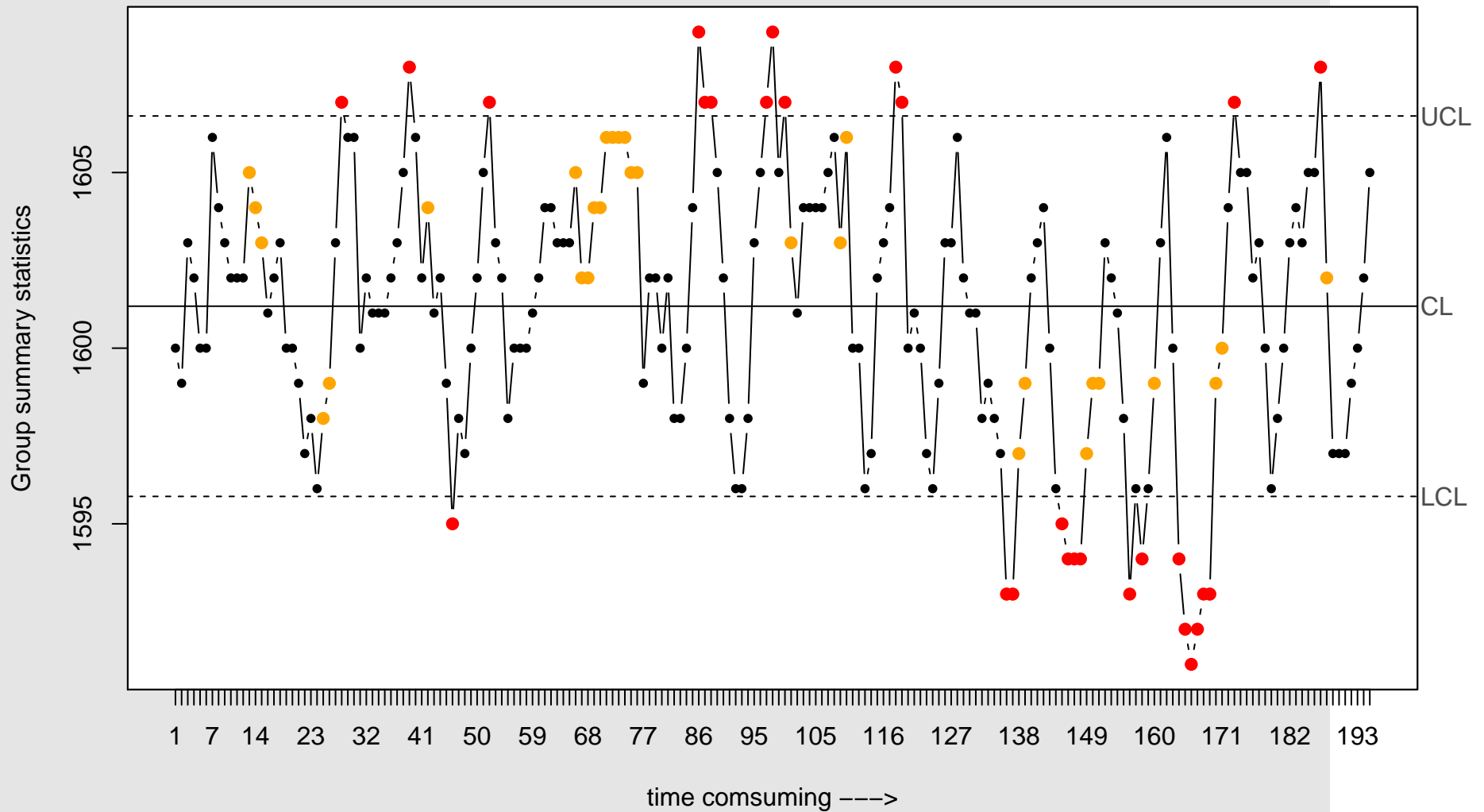


Number of groups = 195
 Center = 1603.113
 StdDev = 1.814177

LCL = 1597.67
 UCL = 1608.555

Number beyond limits = 30
 Number violating runs = 27

286th column point of this product



Number of groups = 195

Center = 1601.195

StdDev = 1.805038

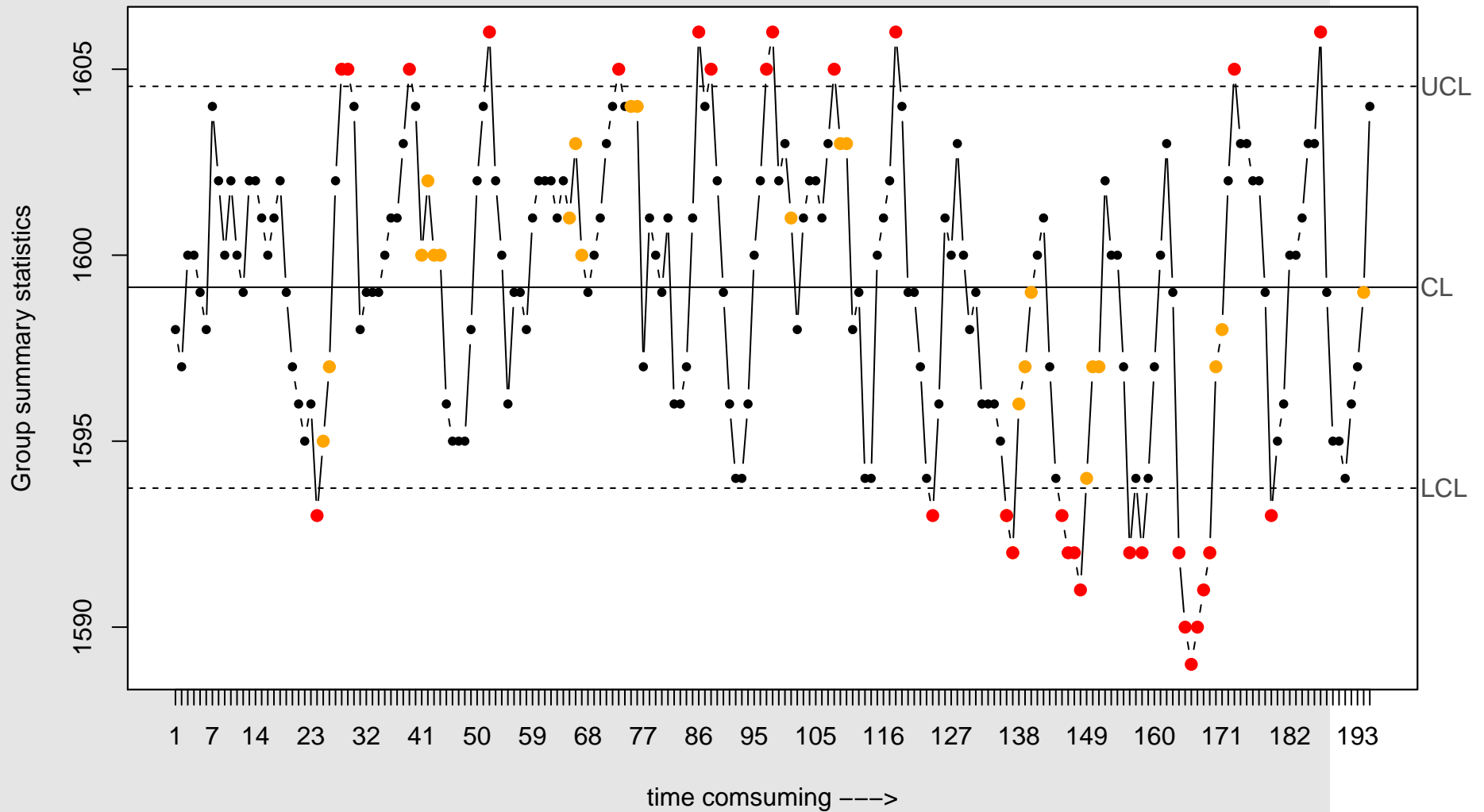
LCL = 1595.78

UCL = 1606.61

Number beyond limits = 28

Number violating runs = 32

287th column point of this product



Number of groups = 195

Center = 1599.138

StdDev = 1.800468

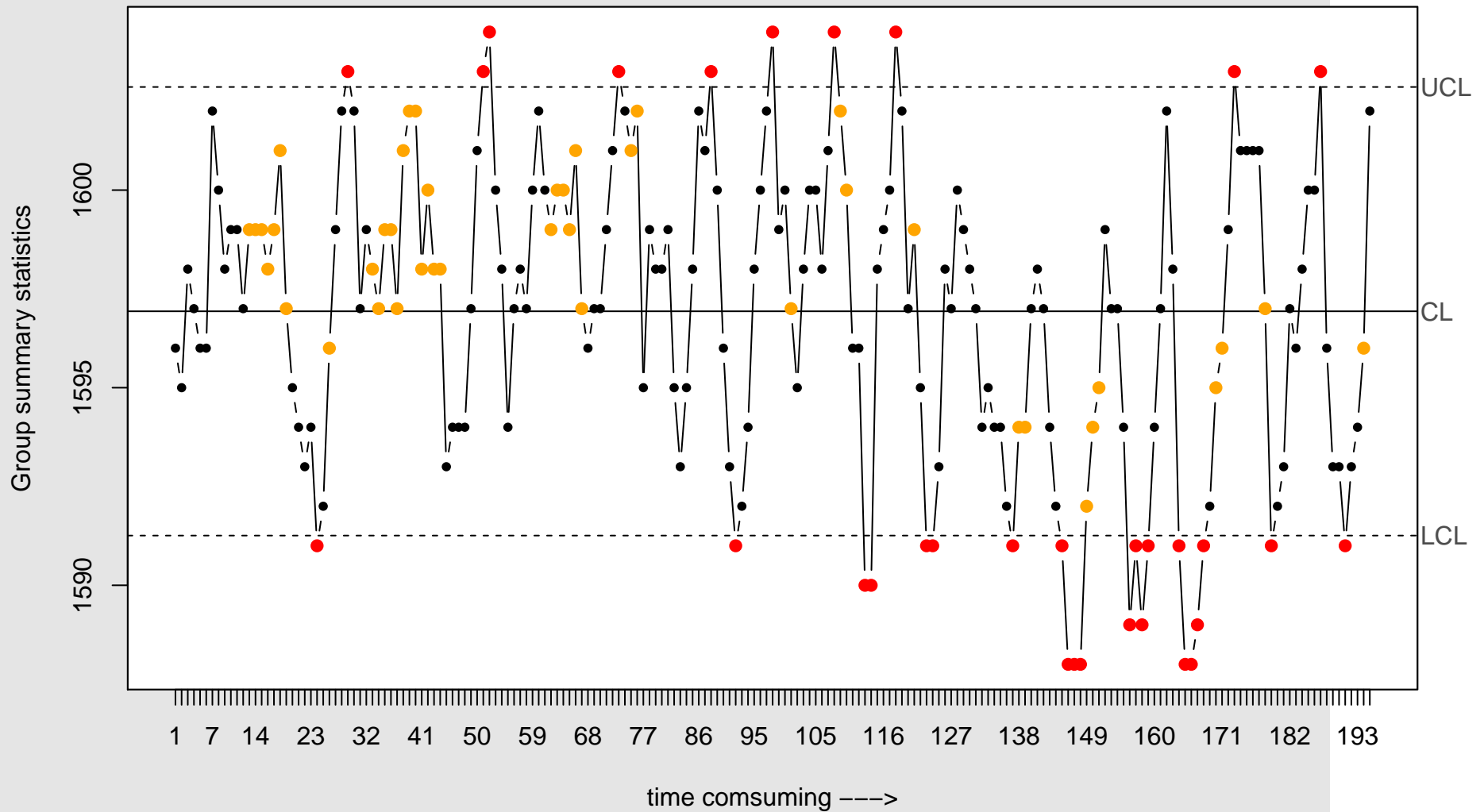
LCL = 1593.737

UCL = 1604.54

Number beyond limits = 30

Number violating runs = 26

288th column point of this product



Number of groups = 195

Center = 1596.933

StdDev = 1.891862

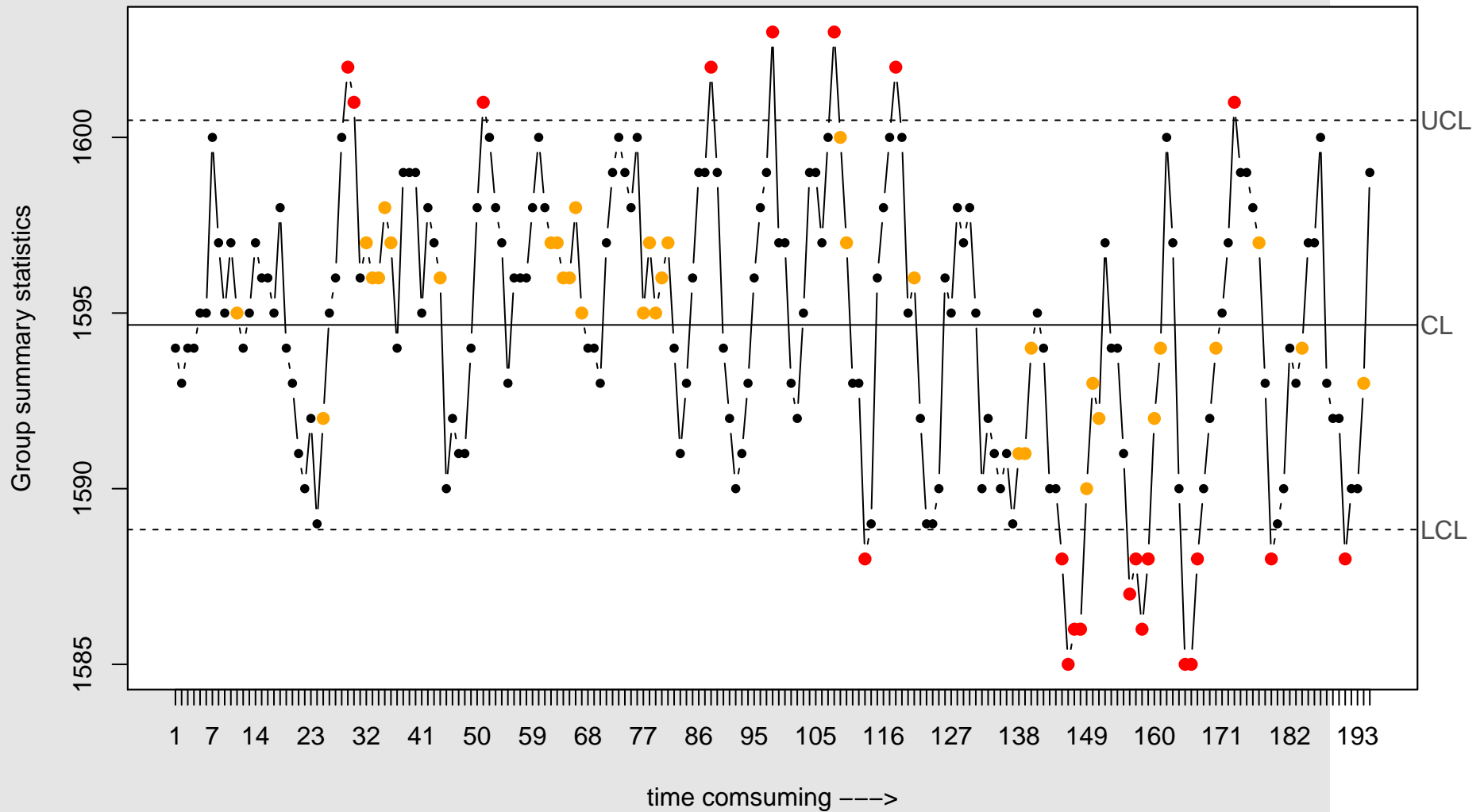
LCL = 1591.258

UCL = 1602.609

Number beyond limits = 32

Number violating runs = 41

289th column point of this product



Number of groups = 195

Center = 1594.662

StdDev = 1.942129

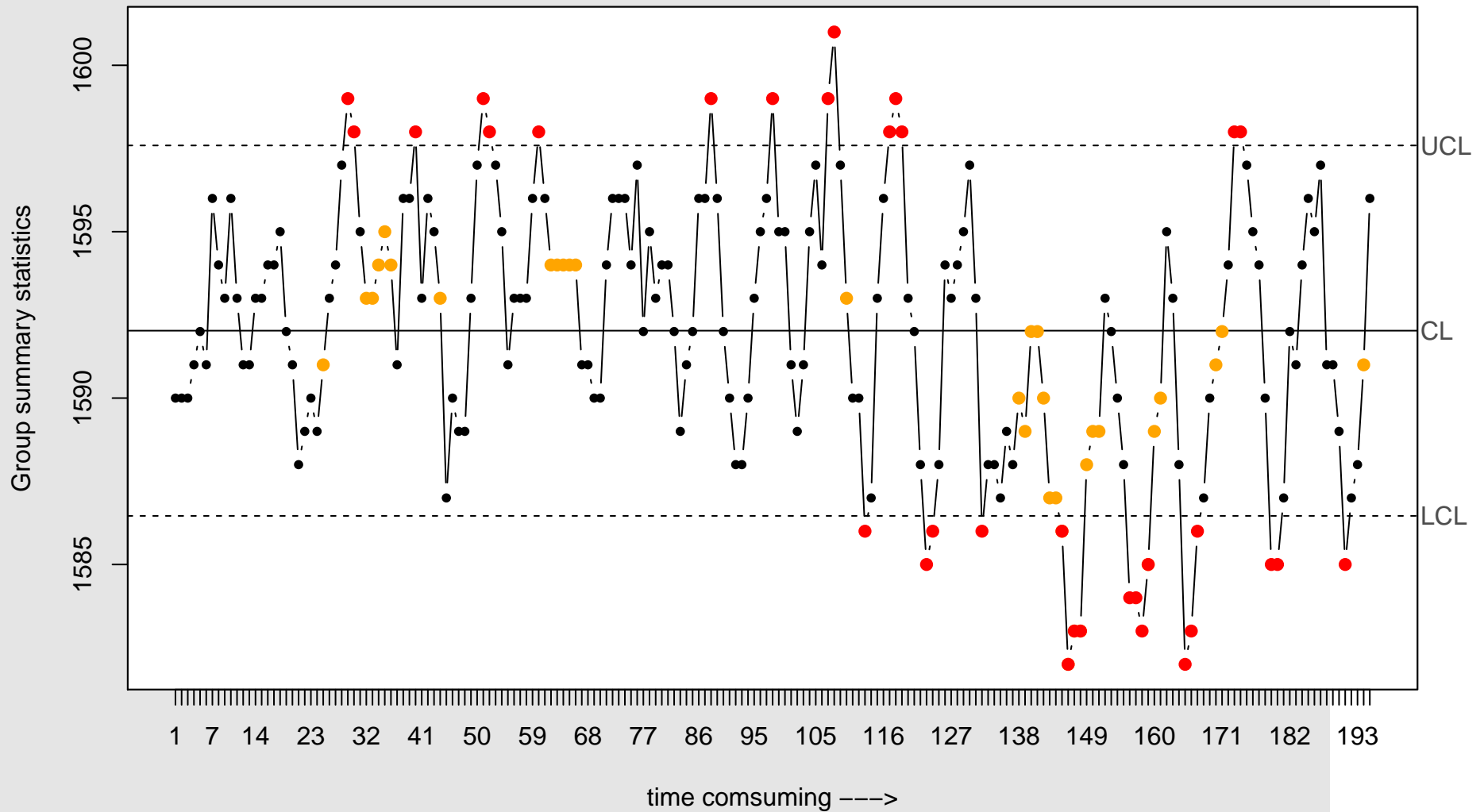
LCL = 1588.835

UCL = 1600.488

Number beyond limits = 22

Number violating runs = 36

290th column point of this product



Number of groups = 195

Center = 1592.026

StdDev = 1.855305

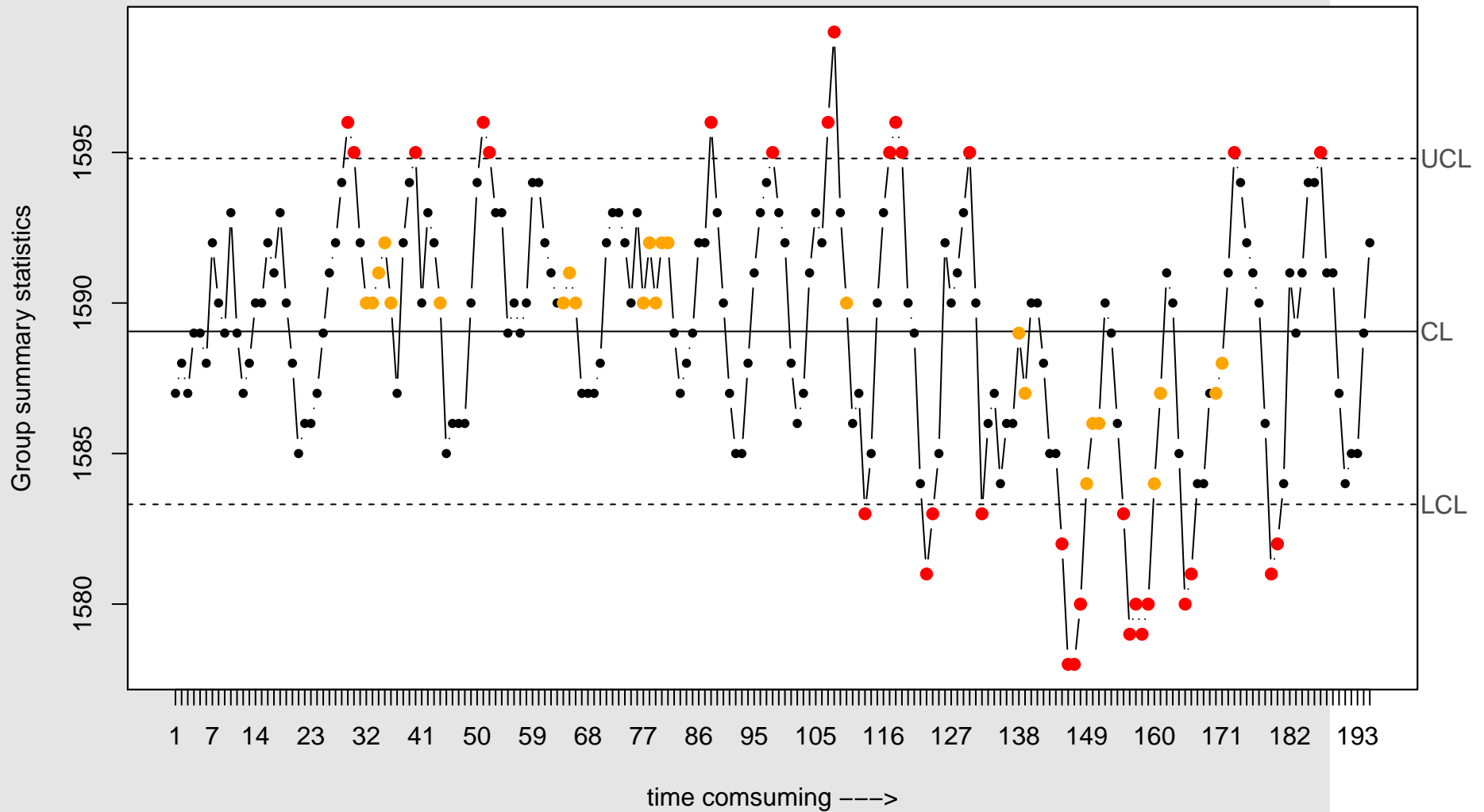
LCL = 1586.46

UCL = 1597.592

Number beyond limits = 33

Number violating runs = 33

291th column point of this product



Number of groups = 195

Center = 1589.056

StdDev = 1.914711

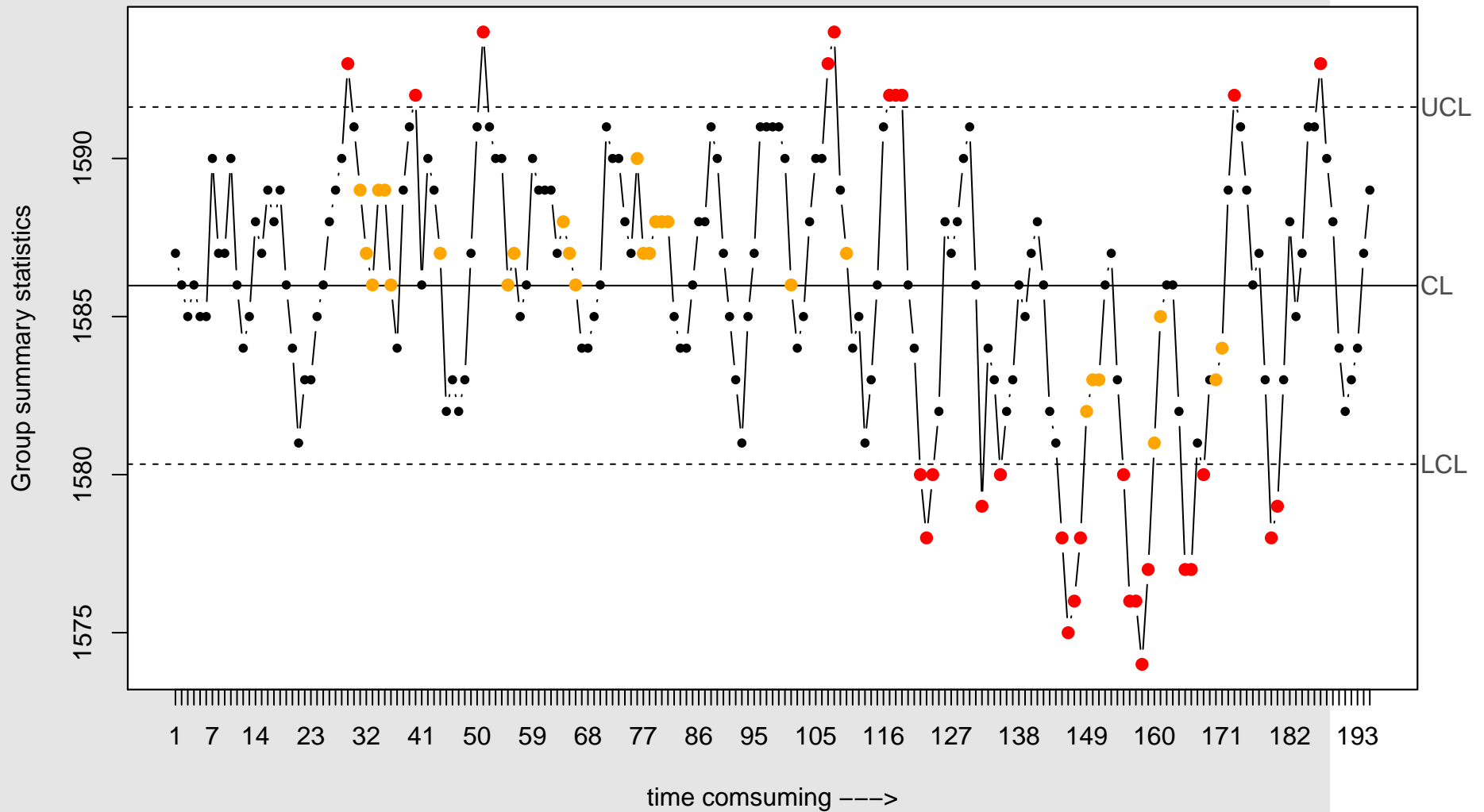
LCL = 1583.312

UCL = 1594.801

Number beyond limits = 32

Number violating runs = 26

292th column point of this product



Number of groups = 195

Center = 1585.979

StdDev = 1.882723

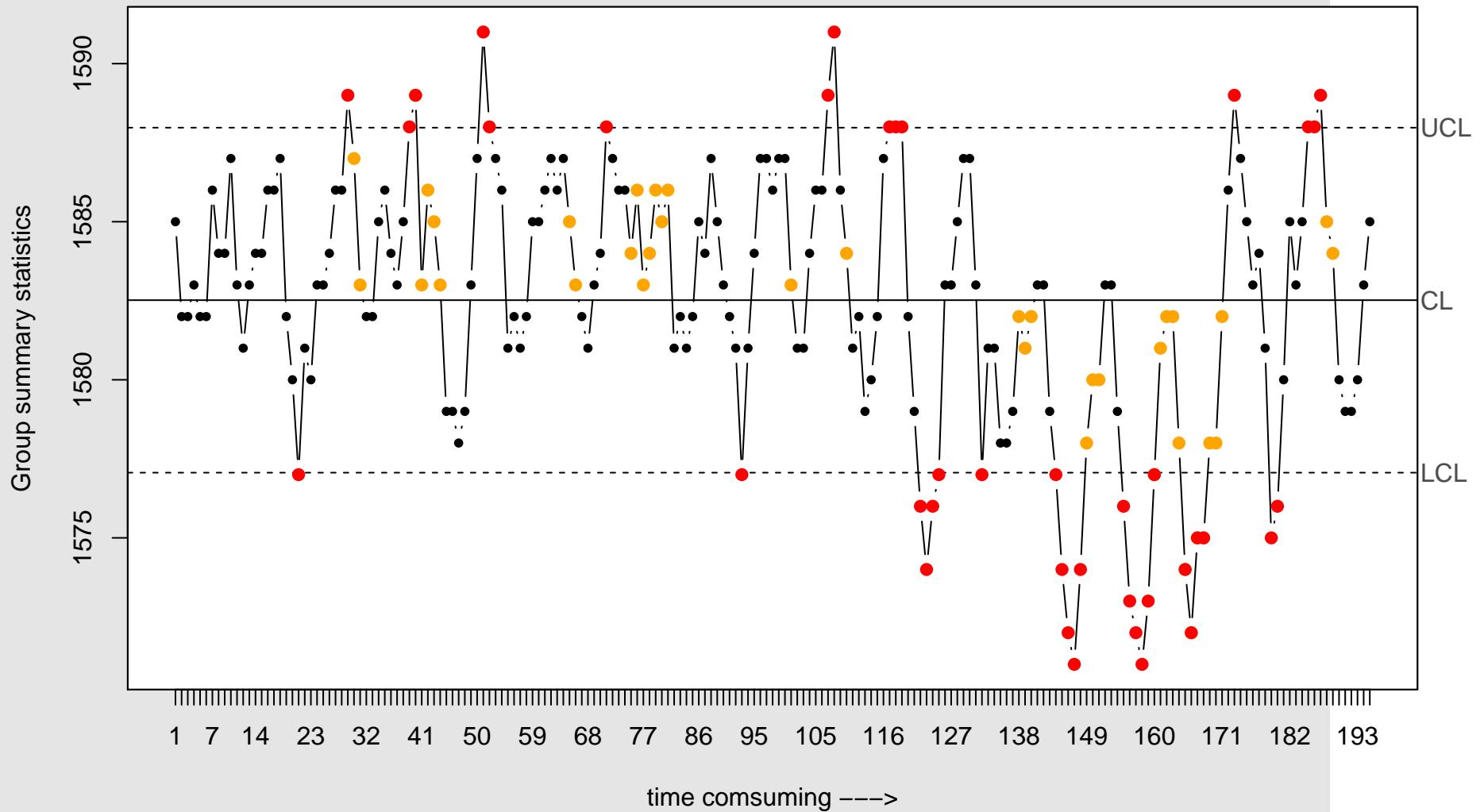
LCL = 1580.331

UCL = 1591.628

Number beyond limits = 29

Number violating runs = 27

293th column point of this product



Number of groups = 195

Center = 1582.518

StdDev = 1.818747

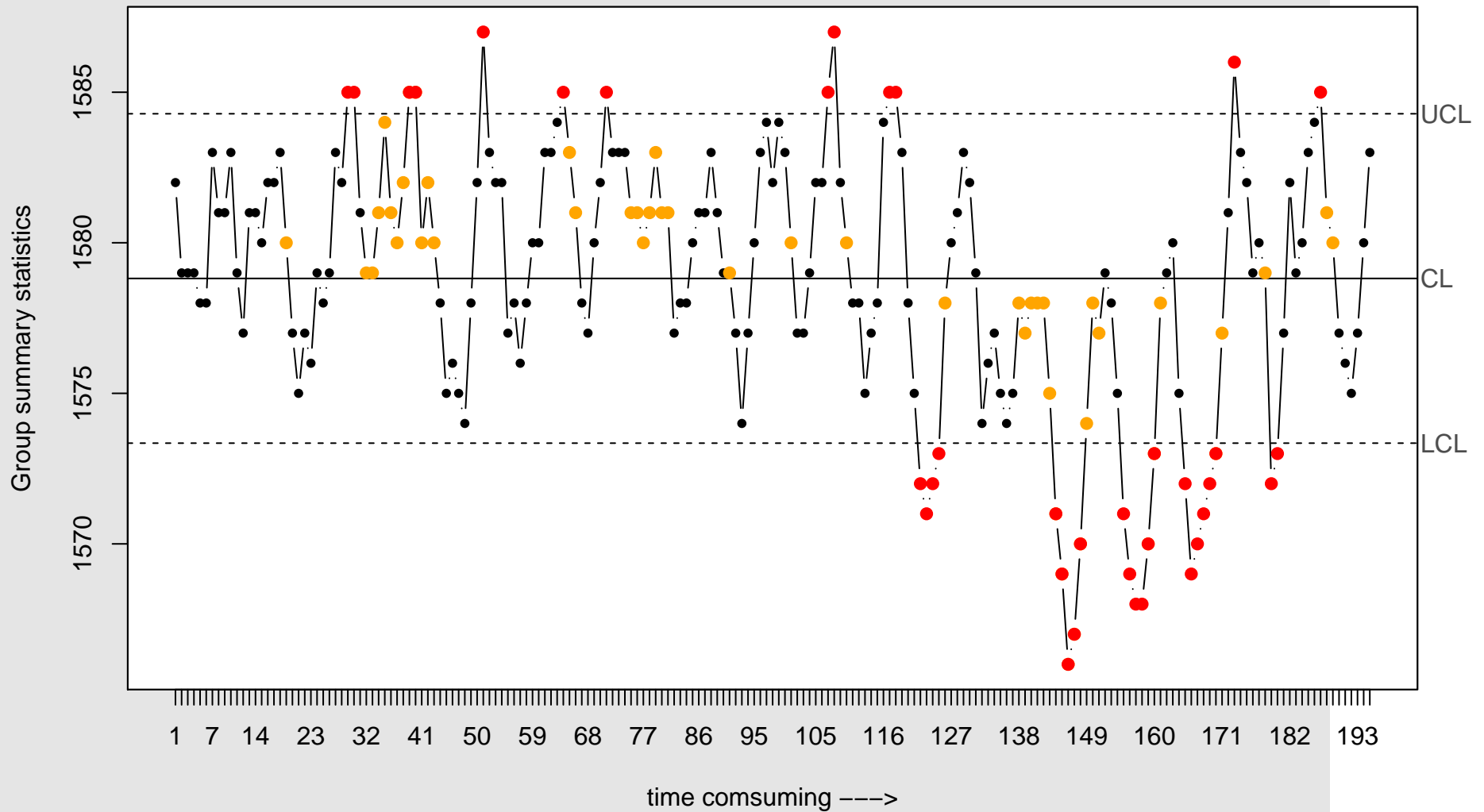
LCL = 1577.062

UCL = 1587.974

Number beyond limits = 39

Number violating runs = 38

294th column point of this product



Number of groups = 195

Center = 1578.815

StdDev = 1.823317

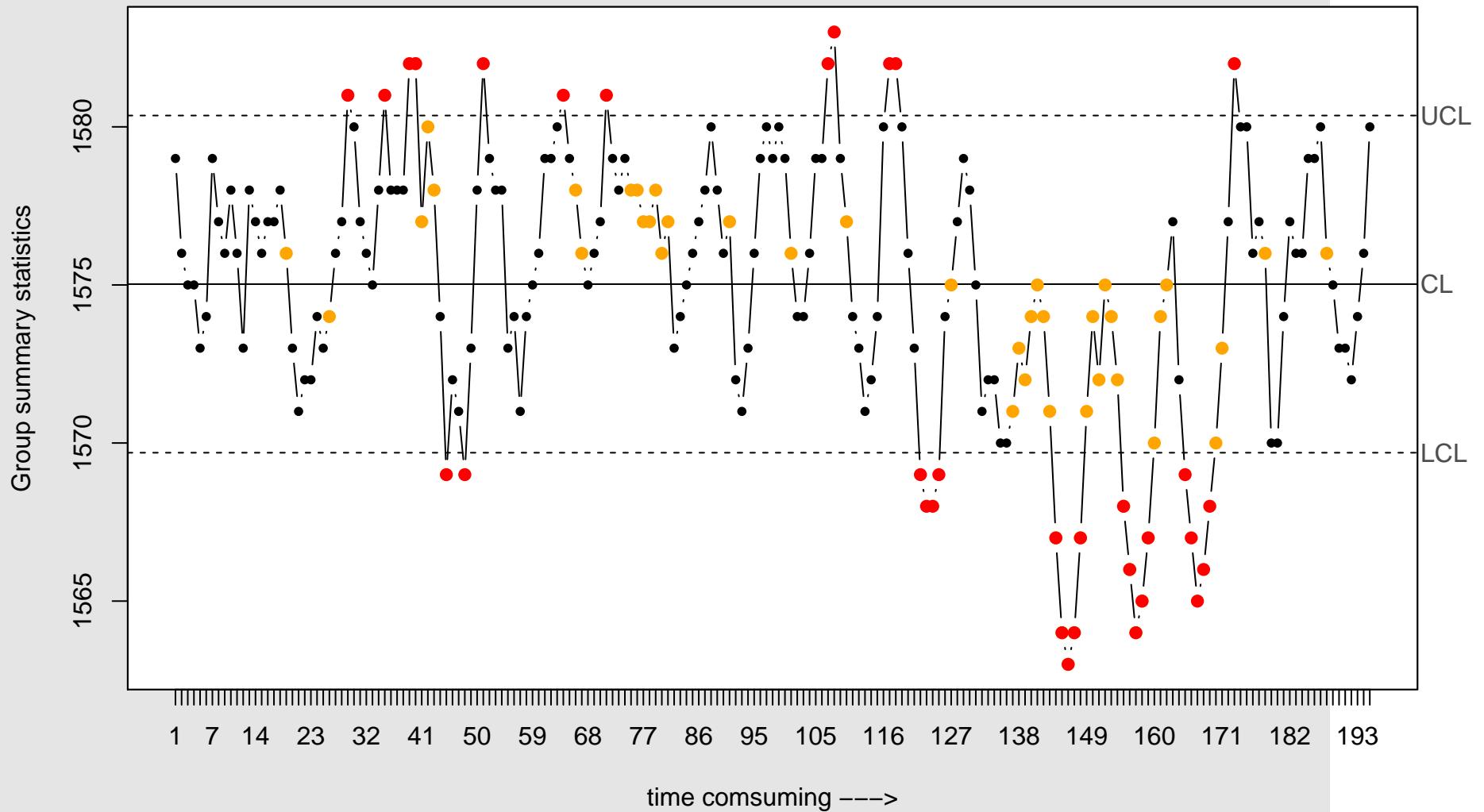
LCL = 1573.345

UCL = 1584.285

Number beyond limits = 36

Number violating runs = 48

295th column point of this product



Number of groups = 195

Center = 1575.026

StdDev = 1.777619

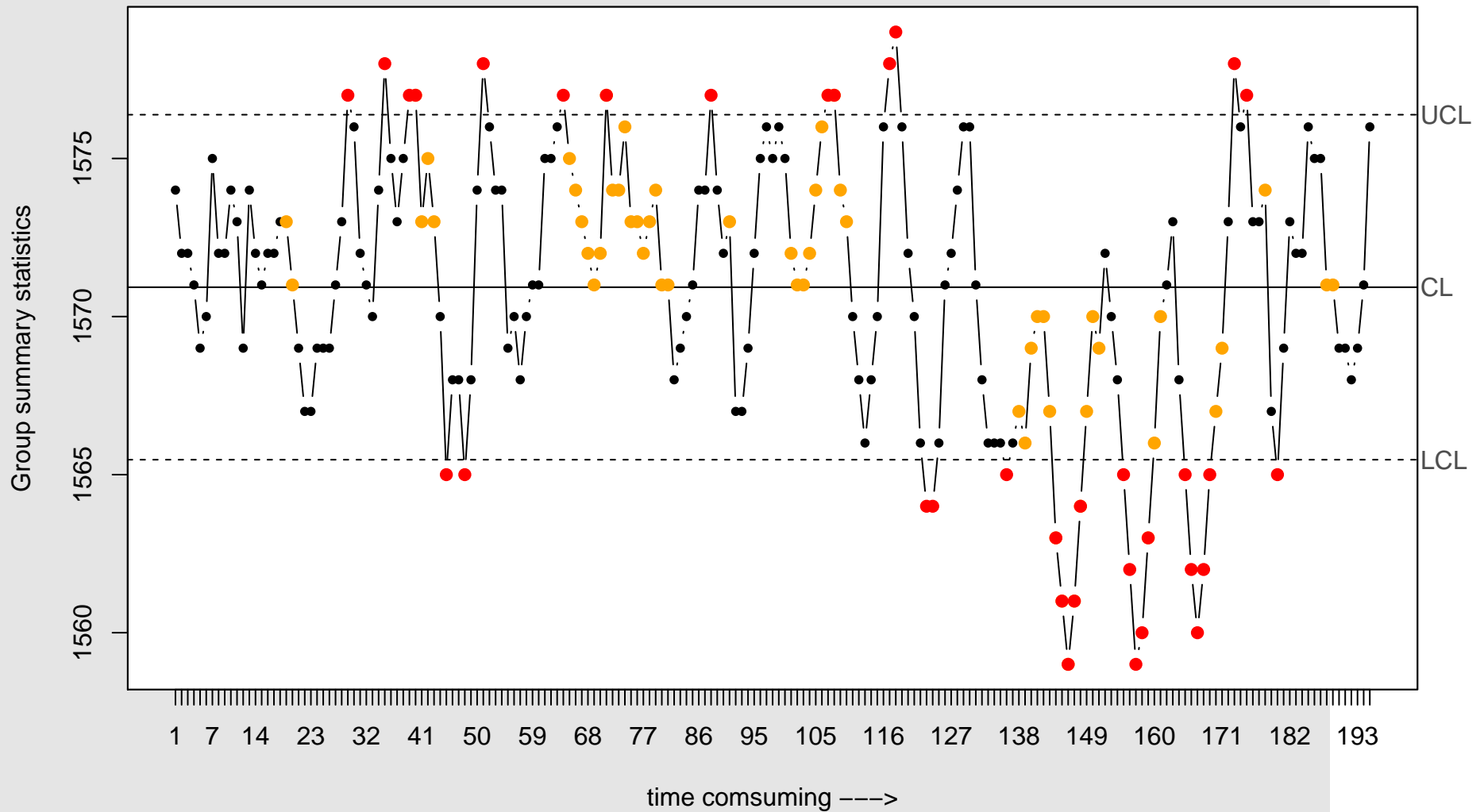
LCL = 1569.693

UCL = 1580.358

Number beyond limits = 33

Number violating runs = 49

296th column point of this product



Number of groups = 195

Center = 1570.928

StdDev = 1.818747

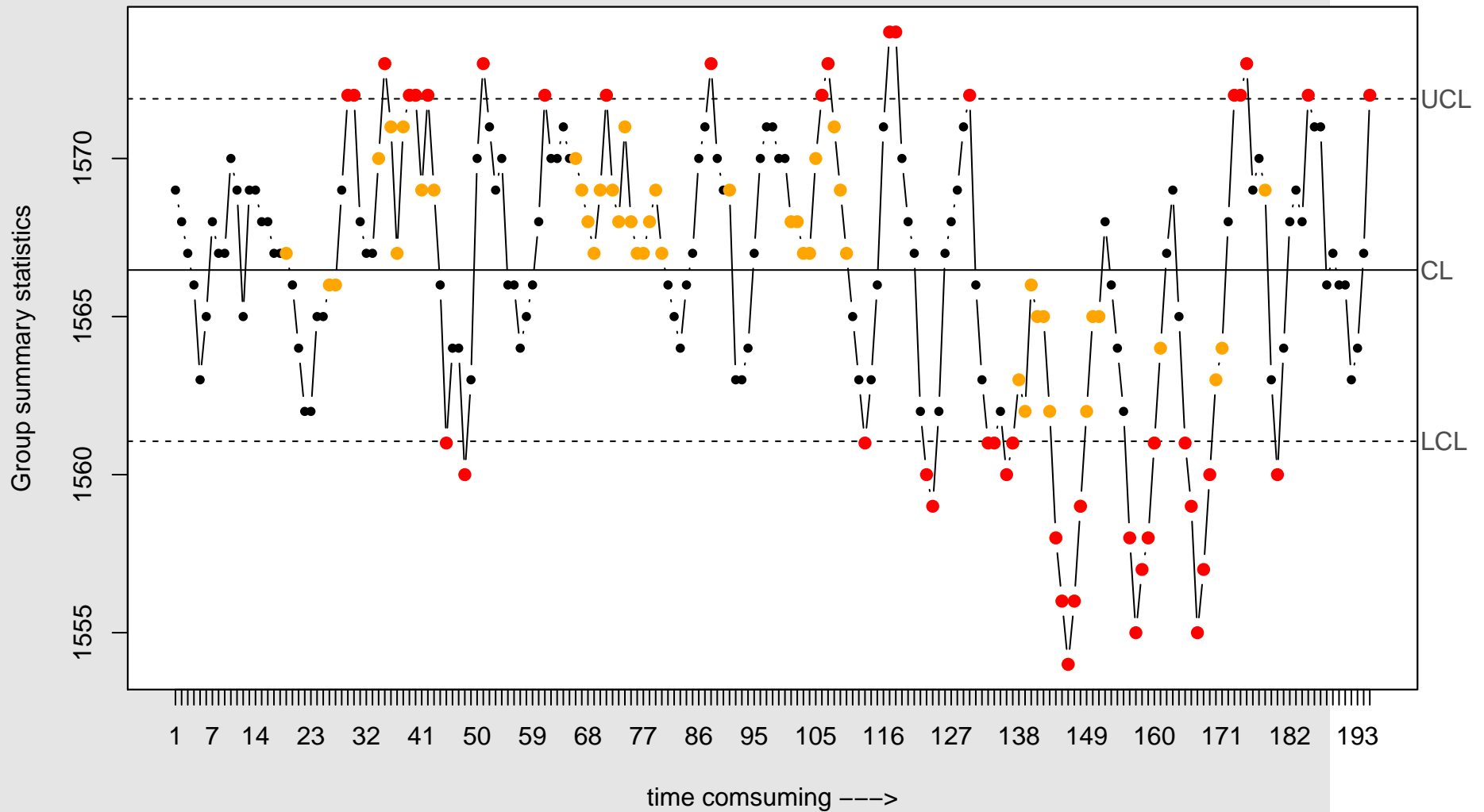
LCL = 1565.472

UCL = 1576.384

Number beyond limits = 35

Number violating runs = 56

297th column point of this product

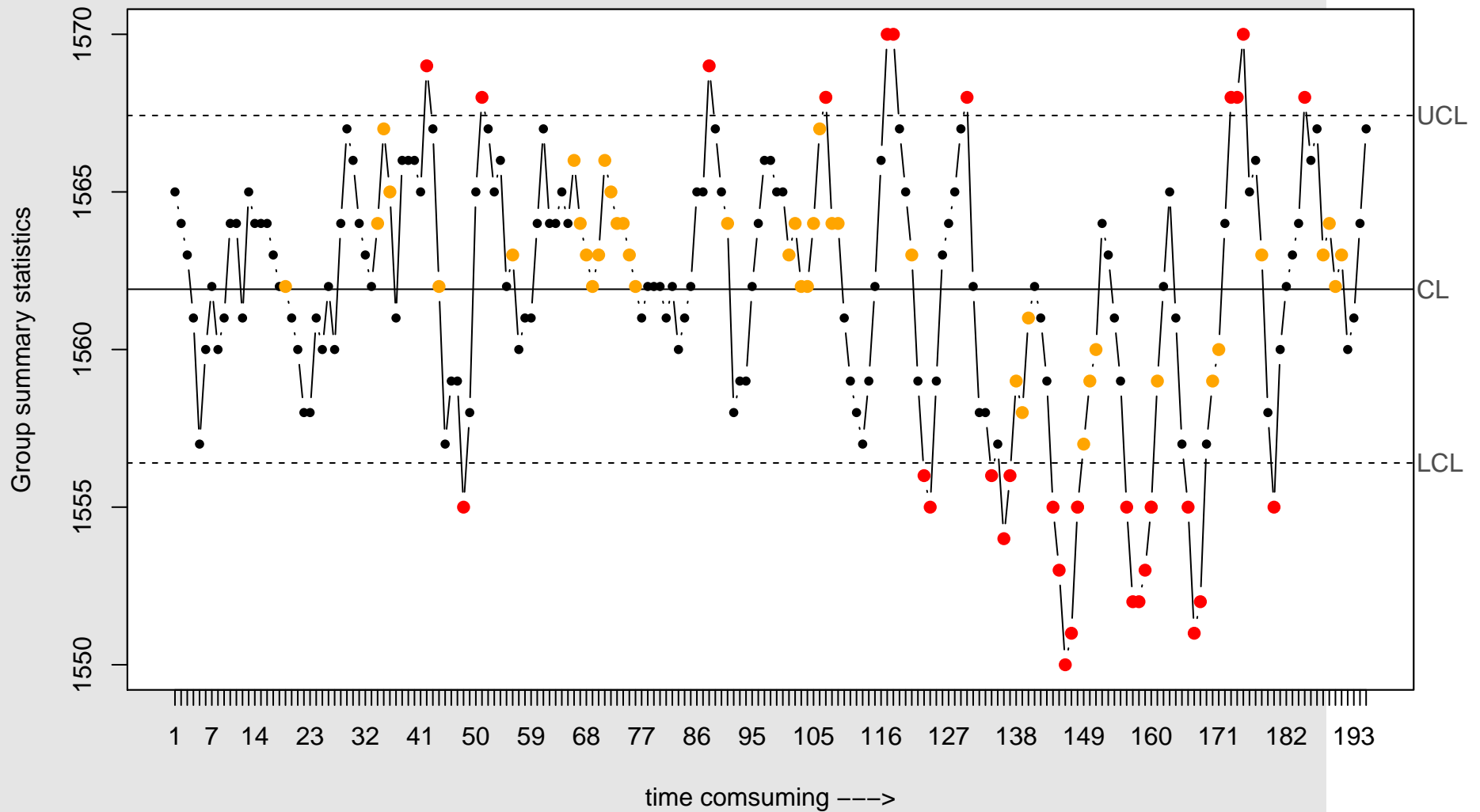


Number of groups = 195
 Center = 1566.472
 StdDev = 1.805038

LCL = 1561.057
 UCL = 1571.887

Number beyond limits = 45
 Number violating runs = 60

298th column point of this product



Number of groups = 195

Center = 1561.913

StdDev = 1.837026

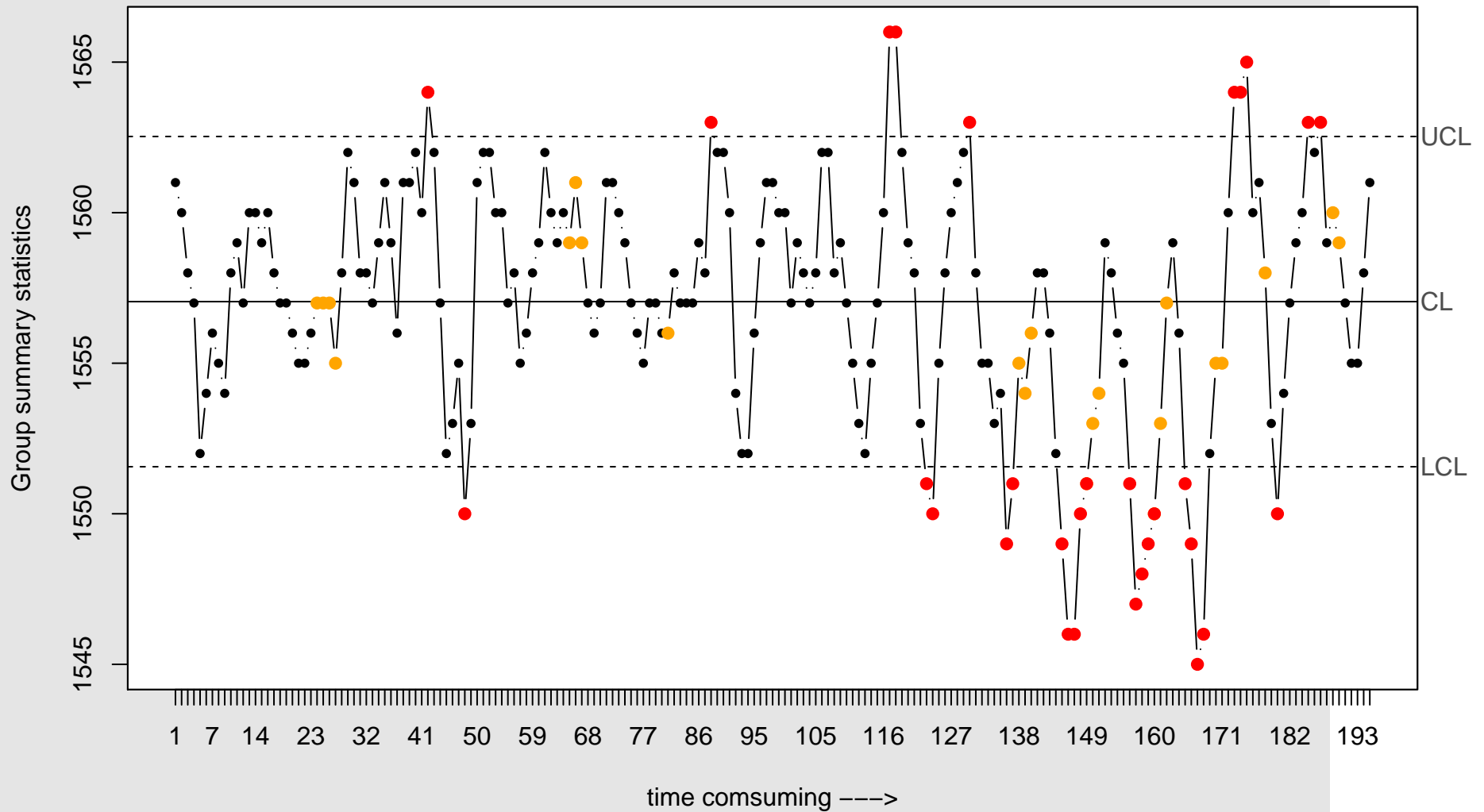
LCL = 1556.402

UCL = 1567.424

Number beyond limits = 31

Number violating runs = 44

299th column point of this product



Number of groups = 195

Center = 1557.046

StdDev = 1.827886

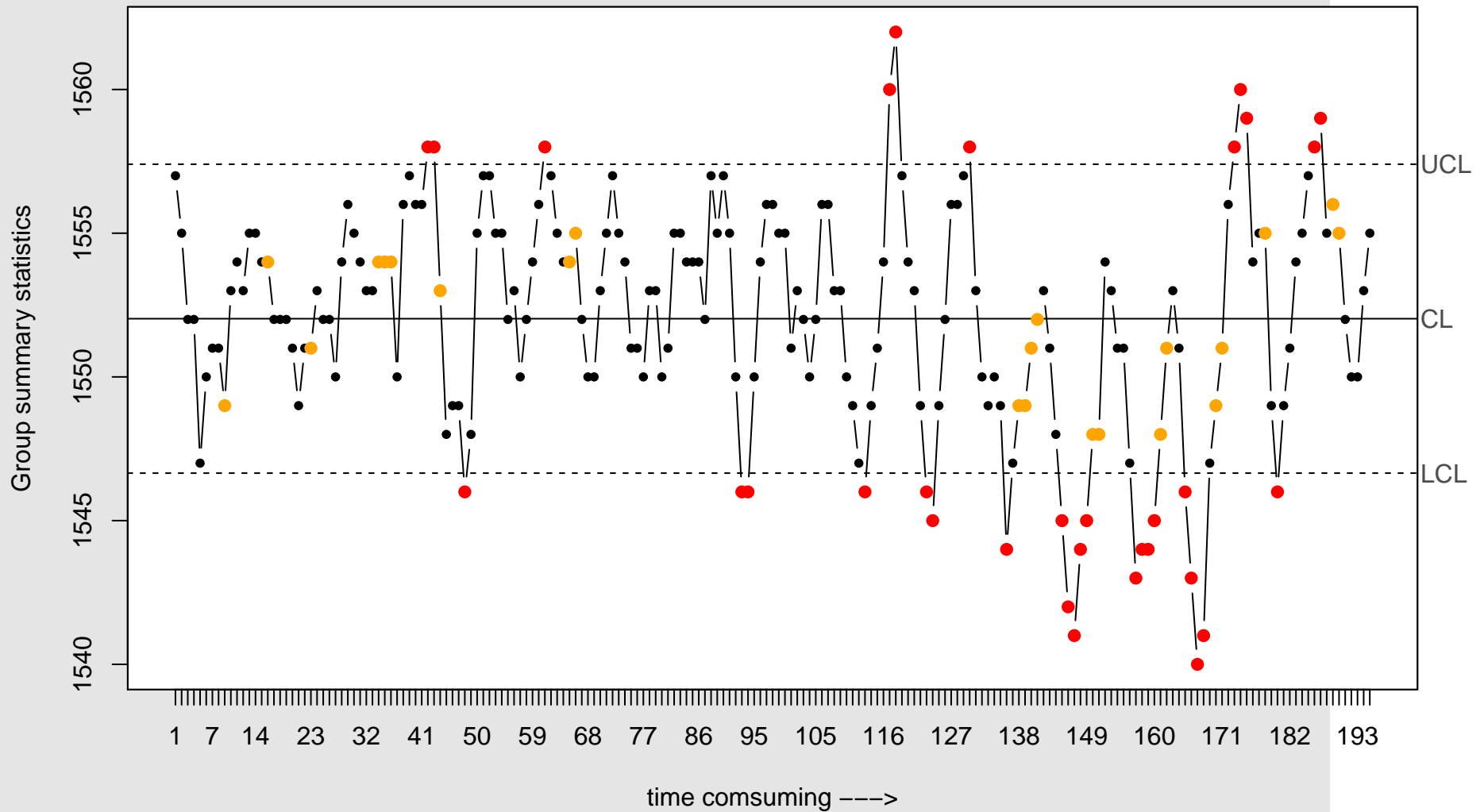
LCL = 1551.562

UCL = 1562.53

Number beyond limits = 30

Number violating runs = 22

300th column point of this product

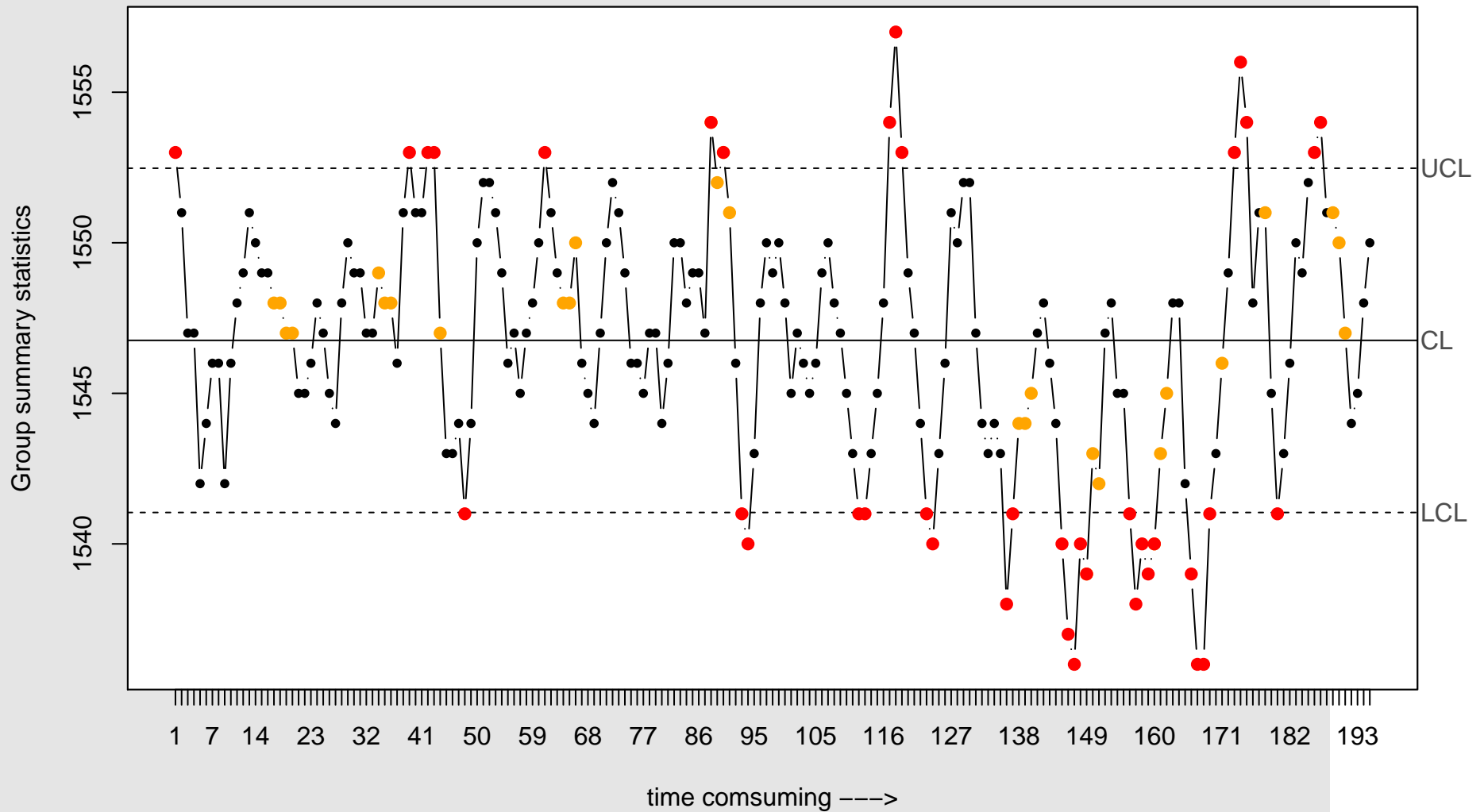


Number of groups = 195
Center = 1552.026
StdDev = 1.791329

LCL = 1546.652
UCL = 1557.4

Number beyond limits = 32
Number violating runs = 24

301th column point of this product

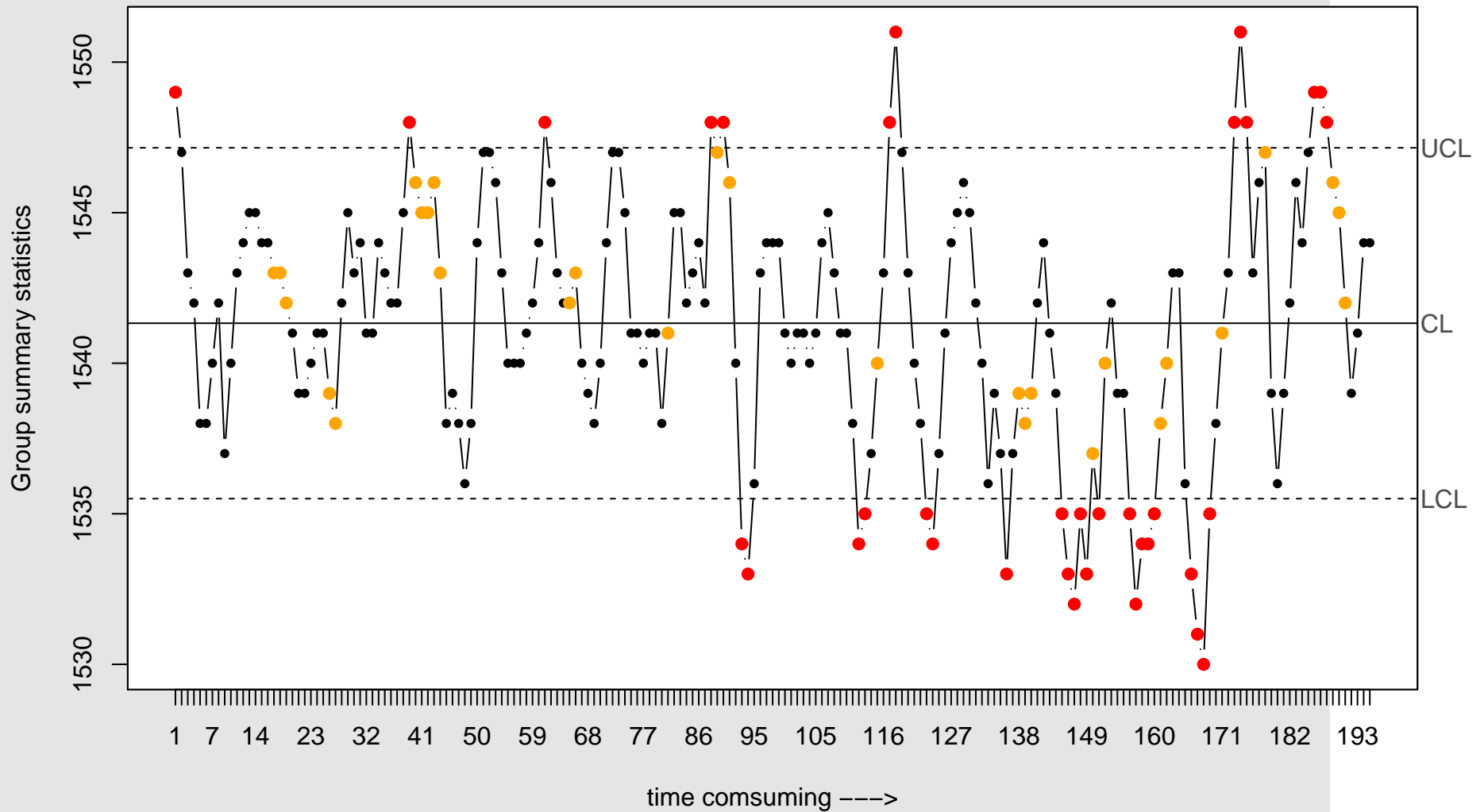


Number of groups = 195
 Center = 1546.759
 StdDev = 1.905571

LCL = 1541.042
 UCL = 1552.476

Number beyond limits = 39
 Number violating runs = 29

302th column point of this product

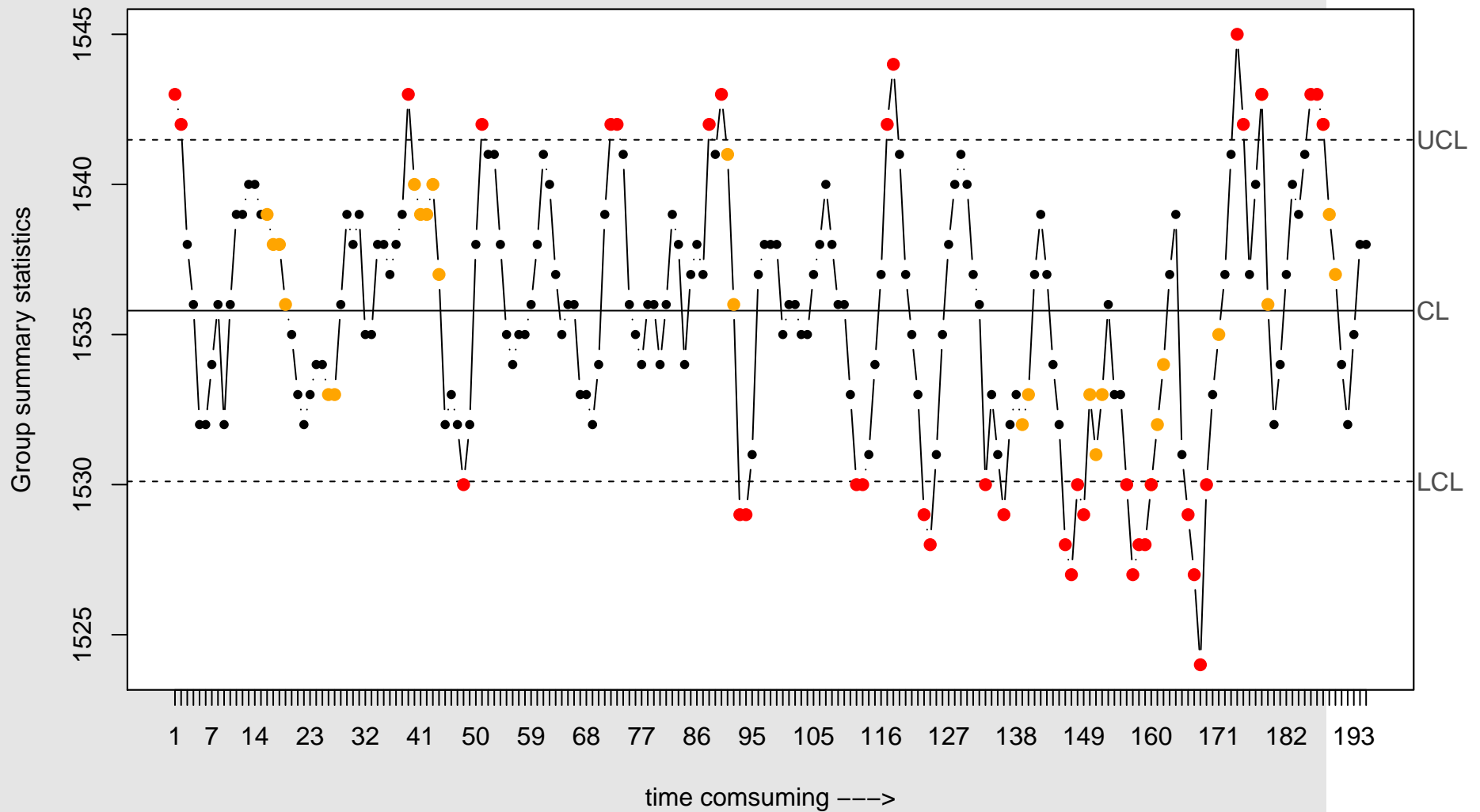


Number of groups = 195
 Center = 1541.328
 StdDev = 1.942129

LCL = 1535.502
 UCL = 1547.155

Number beyond limits = 35
 Number violating runs = 34

303th column point of this product

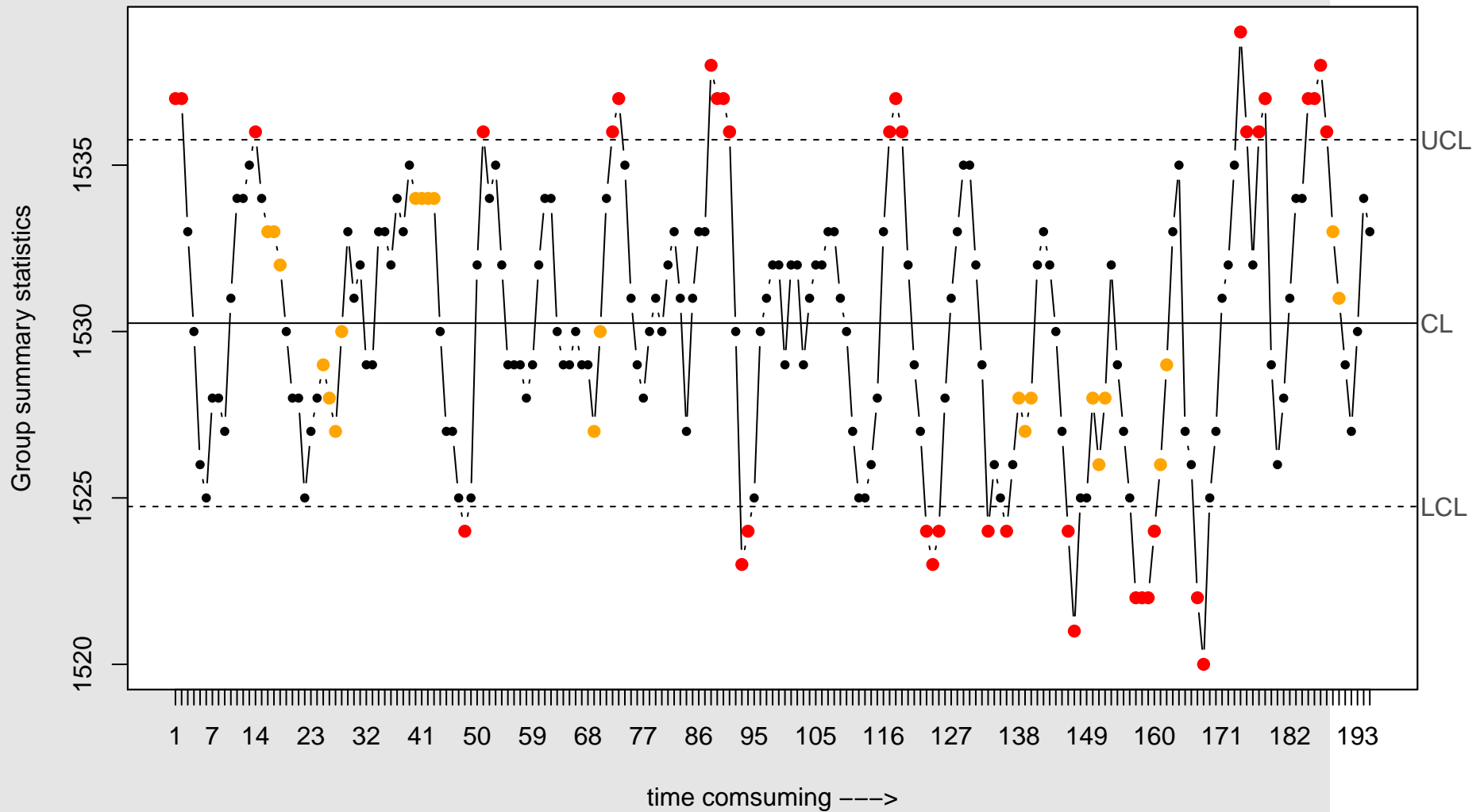


Number of groups = 195
 Center = 1535.795
 StdDev = 1.896432

LCL = 1530.106
 UCL = 1541.484

Number beyond limits = 38
 Number violating runs = 27

304th column point of this product



Number of groups = 195

Center = 1530.251

StdDev = 1.837026

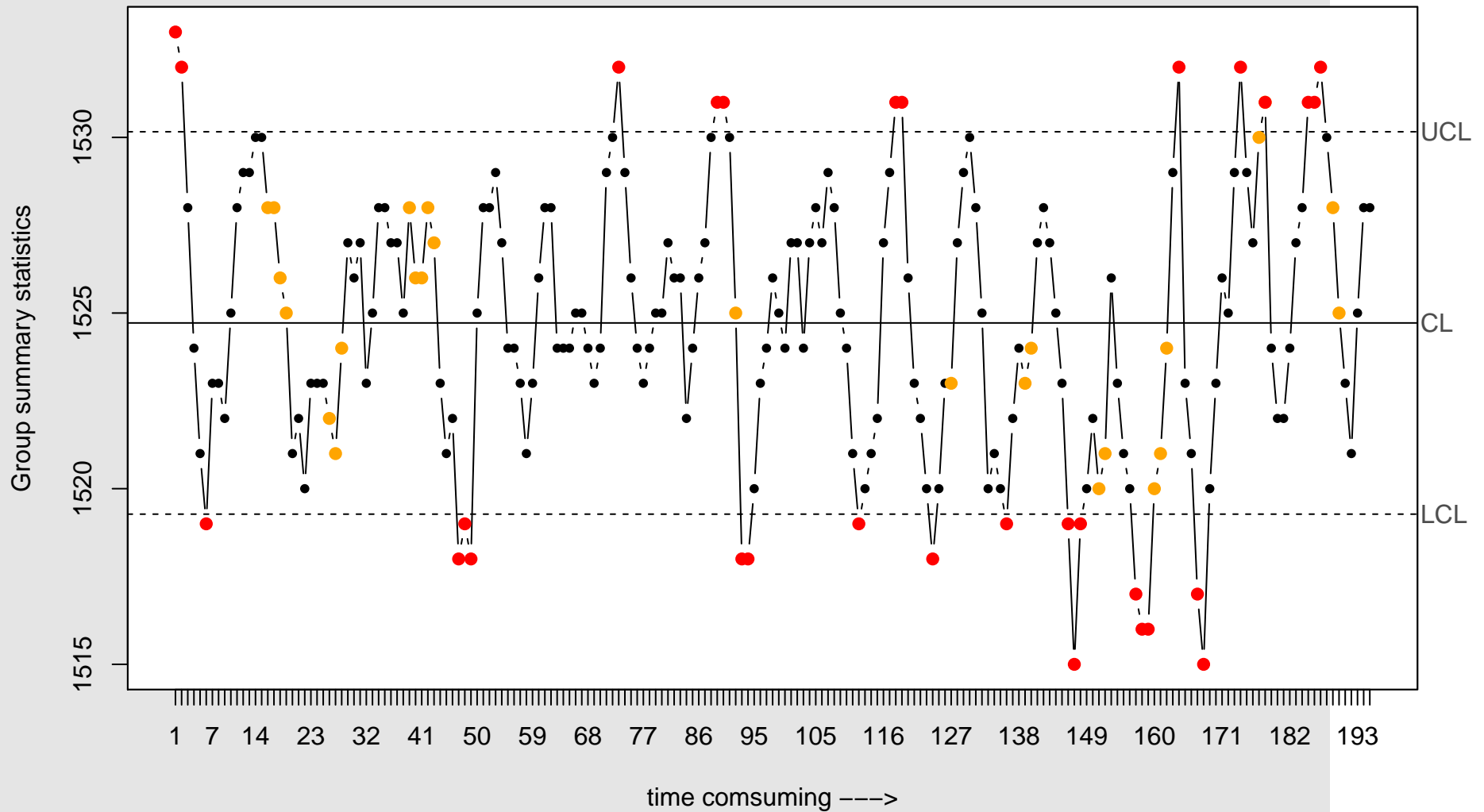
LCL = 1524.74

UCL = 1535.762

Number beyond limits = 37

Number violating runs = 28

305th column point of this product



Number of groups = 195

Center = 1524.718

StdDev = 1.814177

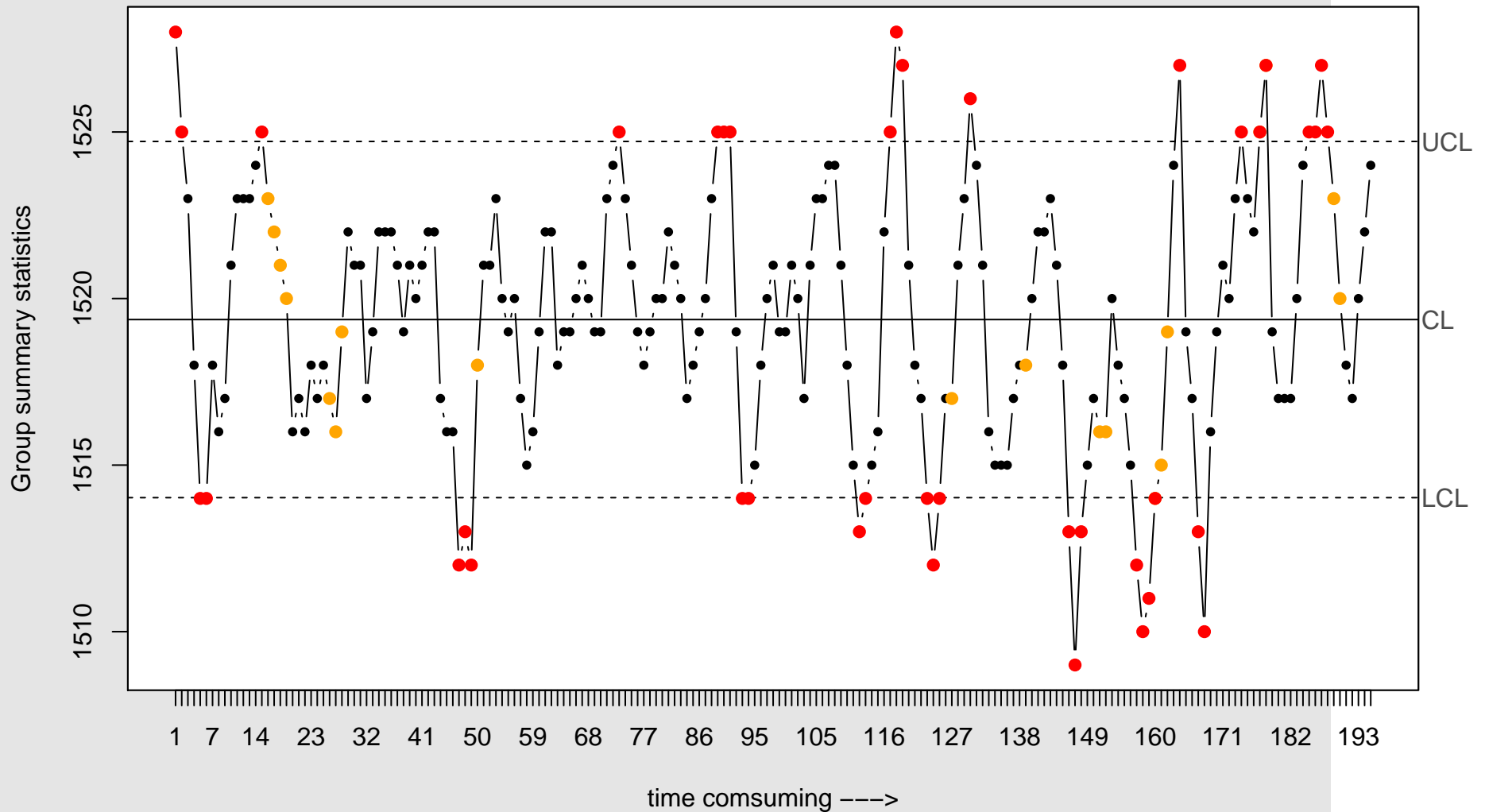
LCL = 1519.275

UCL = 1530.16

Number beyond limits = 30

Number violating runs = 25

306th column point of this product



Number of groups = 195

Center = 1519.369

StdDev = 1.782189

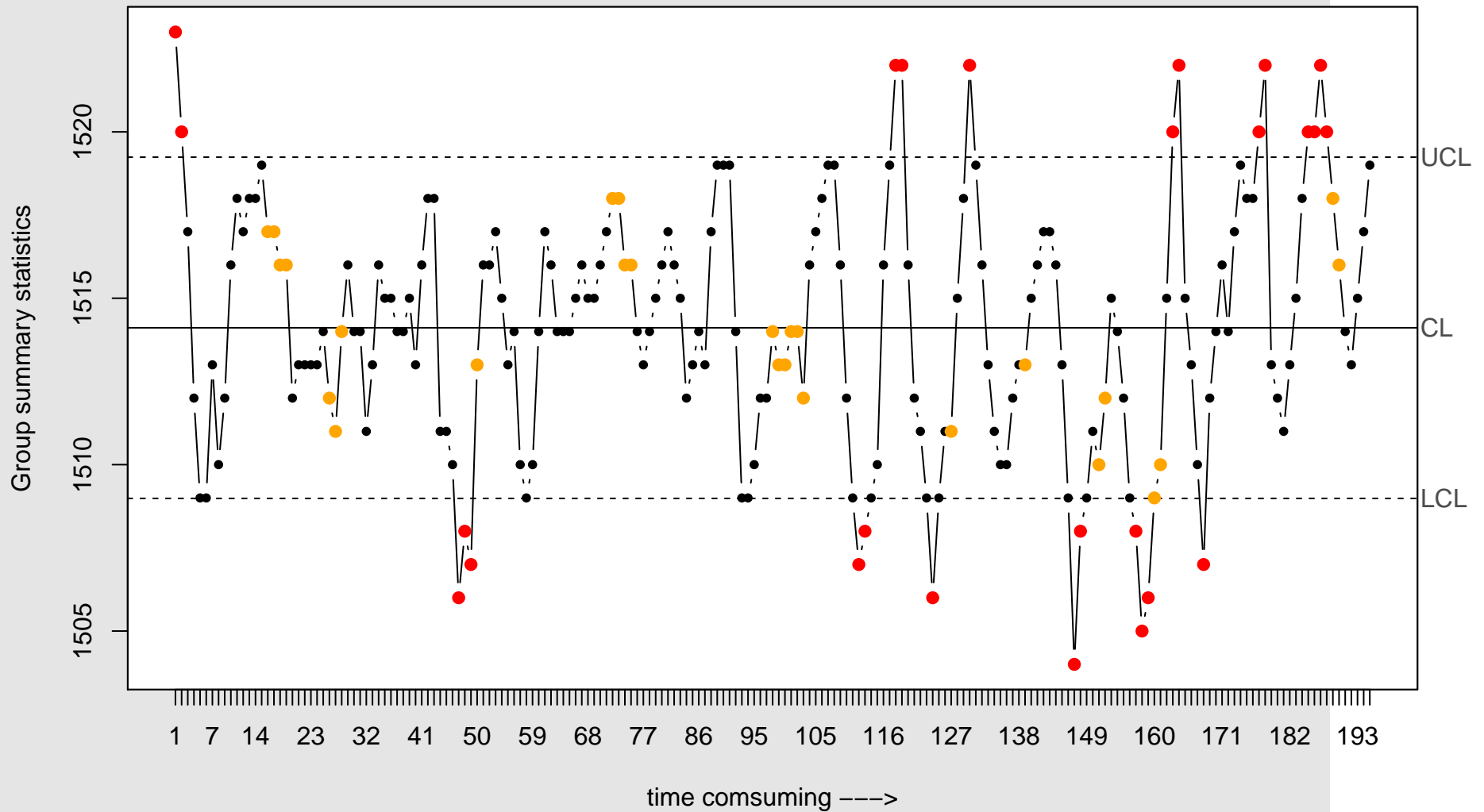
LCL = 1514.023

UCL = 1524.716

Number beyond limits = 40

Number violating runs = 19

307th column point of this product



Number of groups = 195

Center = 1514.113

StdDev = 1.709074

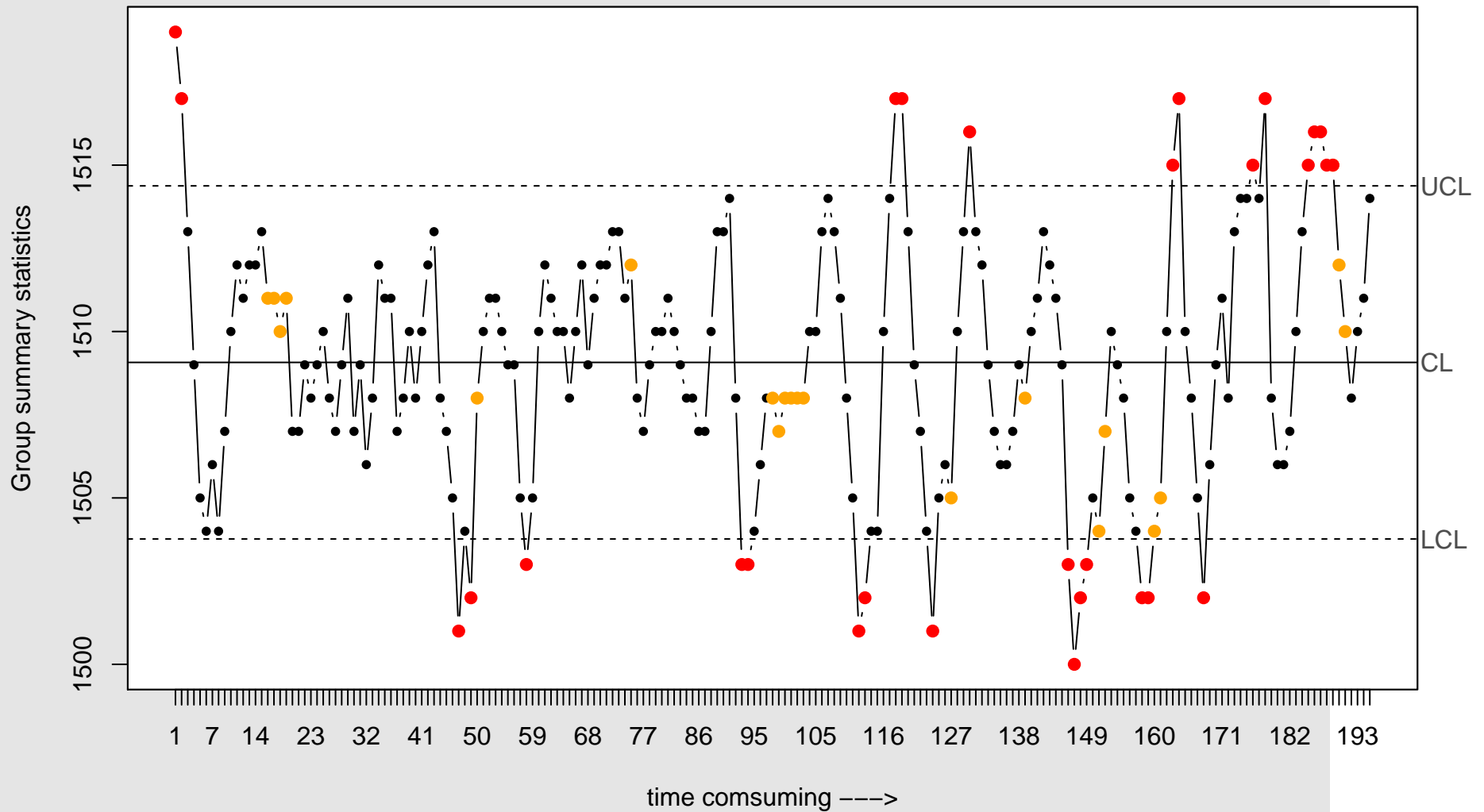
LCL = 1508.986

UCL = 1519.24

Number beyond limits = 25

Number violating runs = 26

308th column point of this product

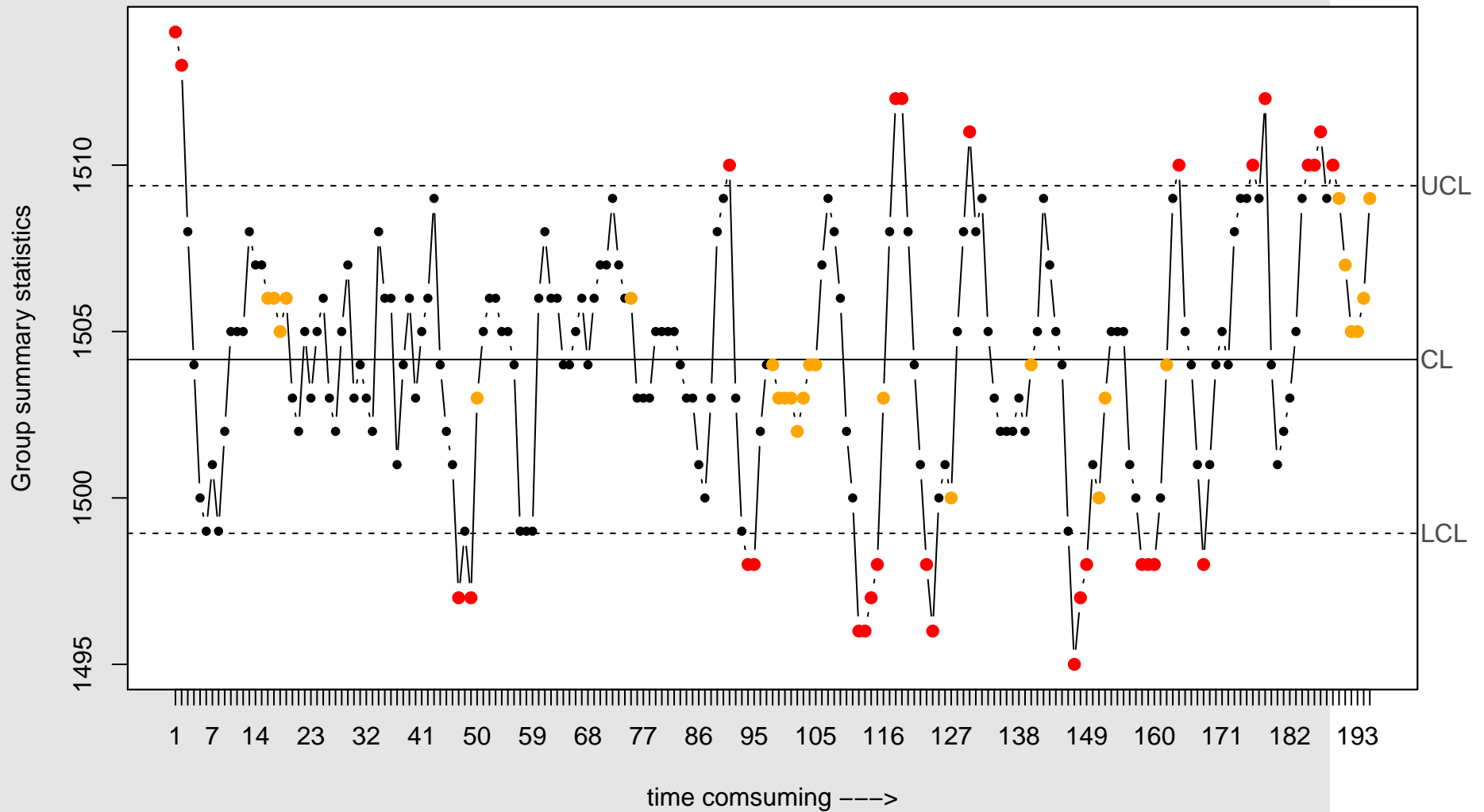


Number of groups = 195
 Center = 1509.072
 StdDev = 1.76848

LCL = 1503.766
 UCL = 1514.377

Number beyond limits = 29
 Number violating runs = 21

309th column point of this product



Number of groups = 195

Center = 1504.159

StdDev = 1.741062

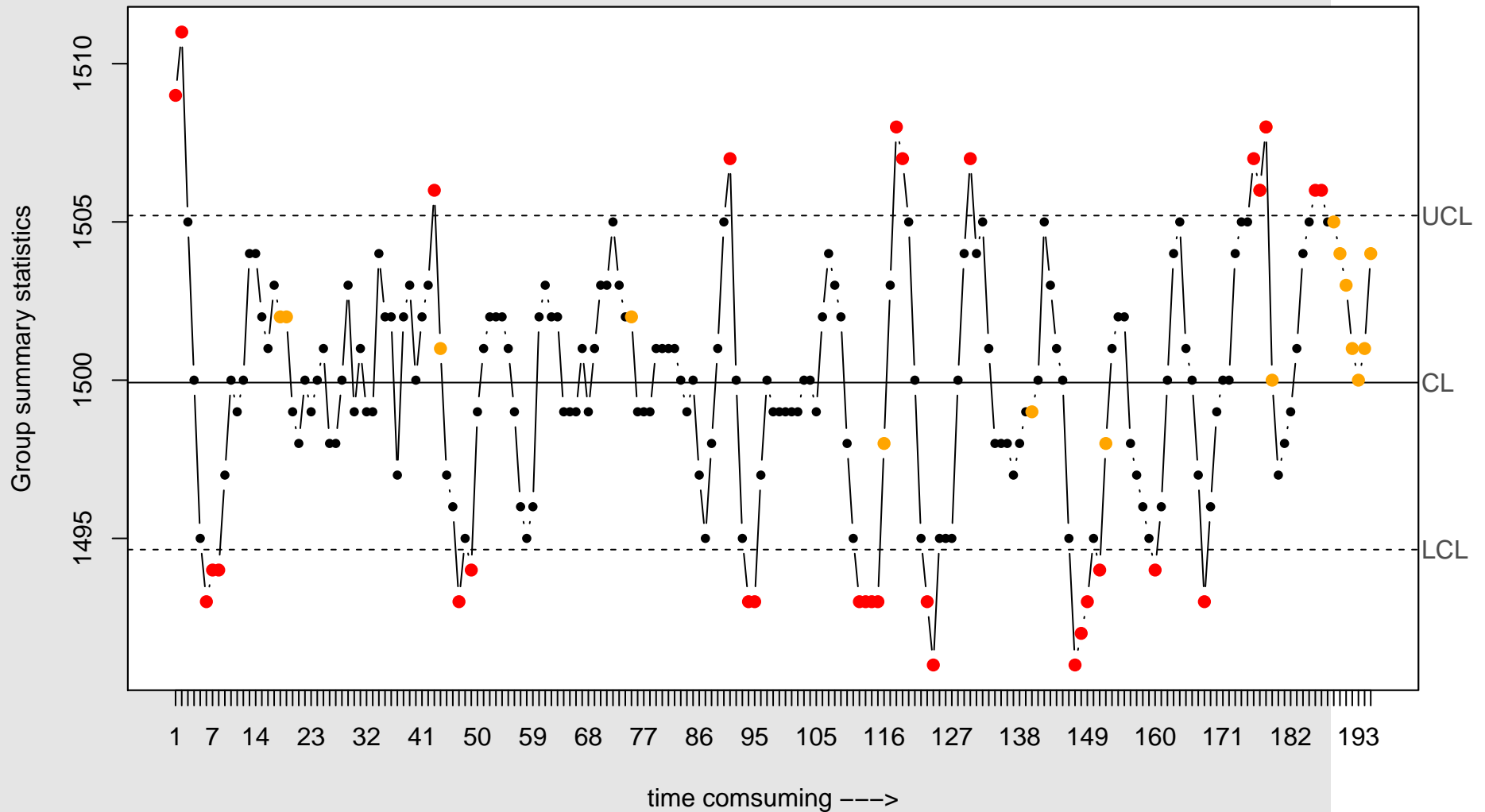
LCL = 1498.936

UCL = 1509.382

Number beyond limits = 30

Number violating runs = 27

310th column point of this product

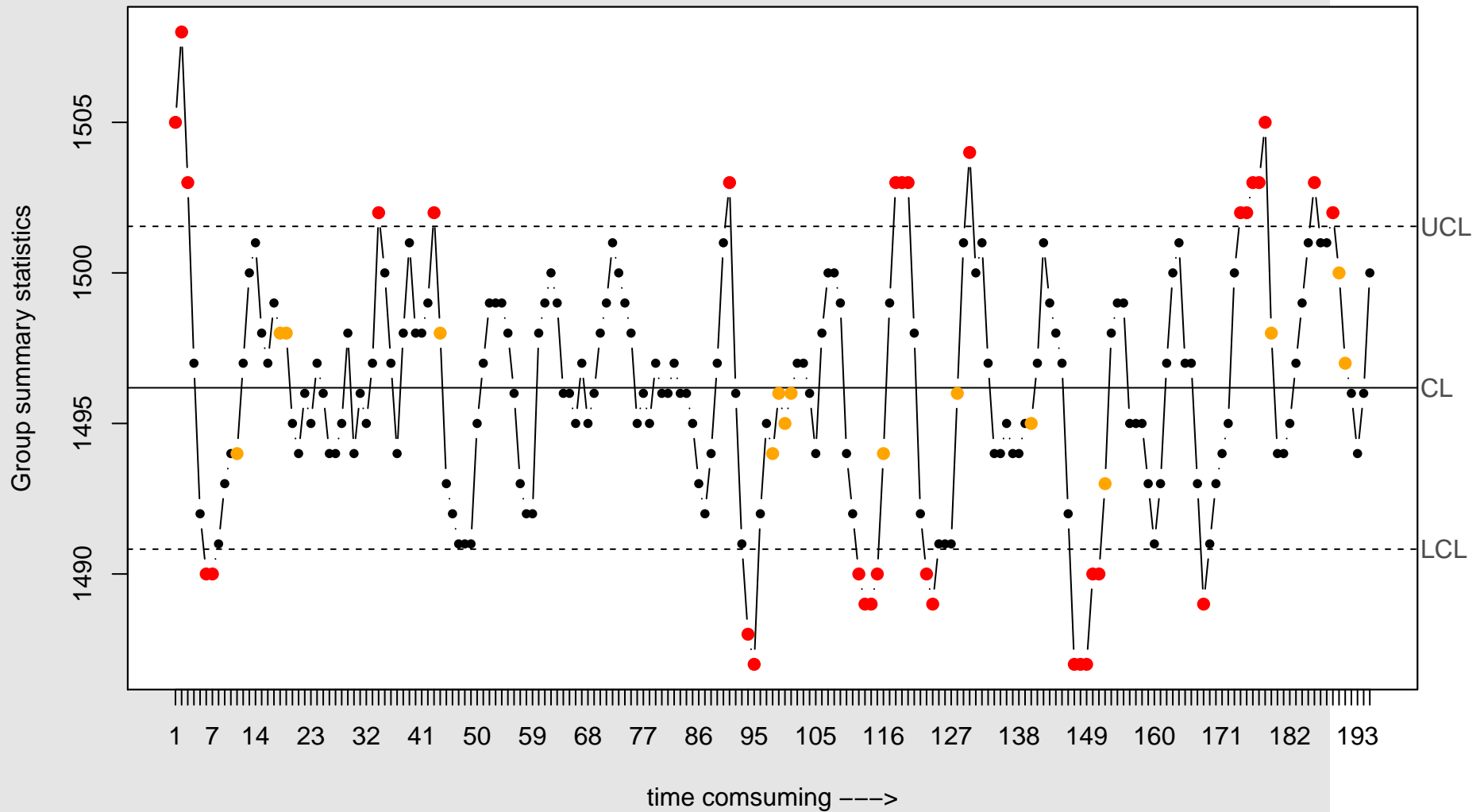


Number of groups = 195
Center = 1499.923
StdDev = 1.75934

LCL = 1494.645
UCL = 1505.201

Number beyond limits = 31
Number violating runs = 17

311th column point of this product



Number of groups = 195

Center = 1496.185

StdDev = 1.786759

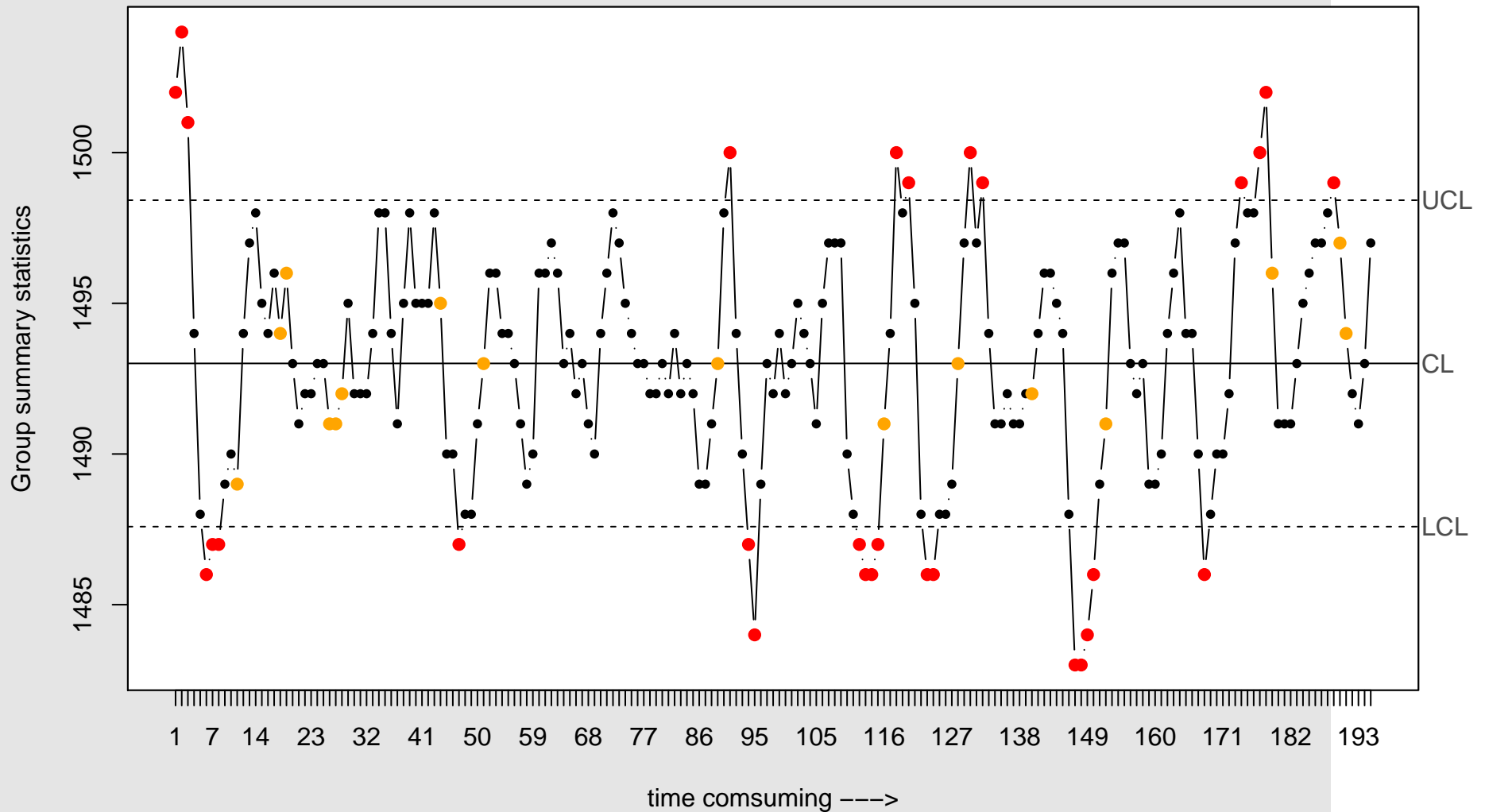
LCL = 1490.824

UCL = 1501.545

Number beyond limits = 33

Number violating runs = 16

312th column point of this product



Number of groups = 195

Center = 1493.005

StdDev = 1.805038

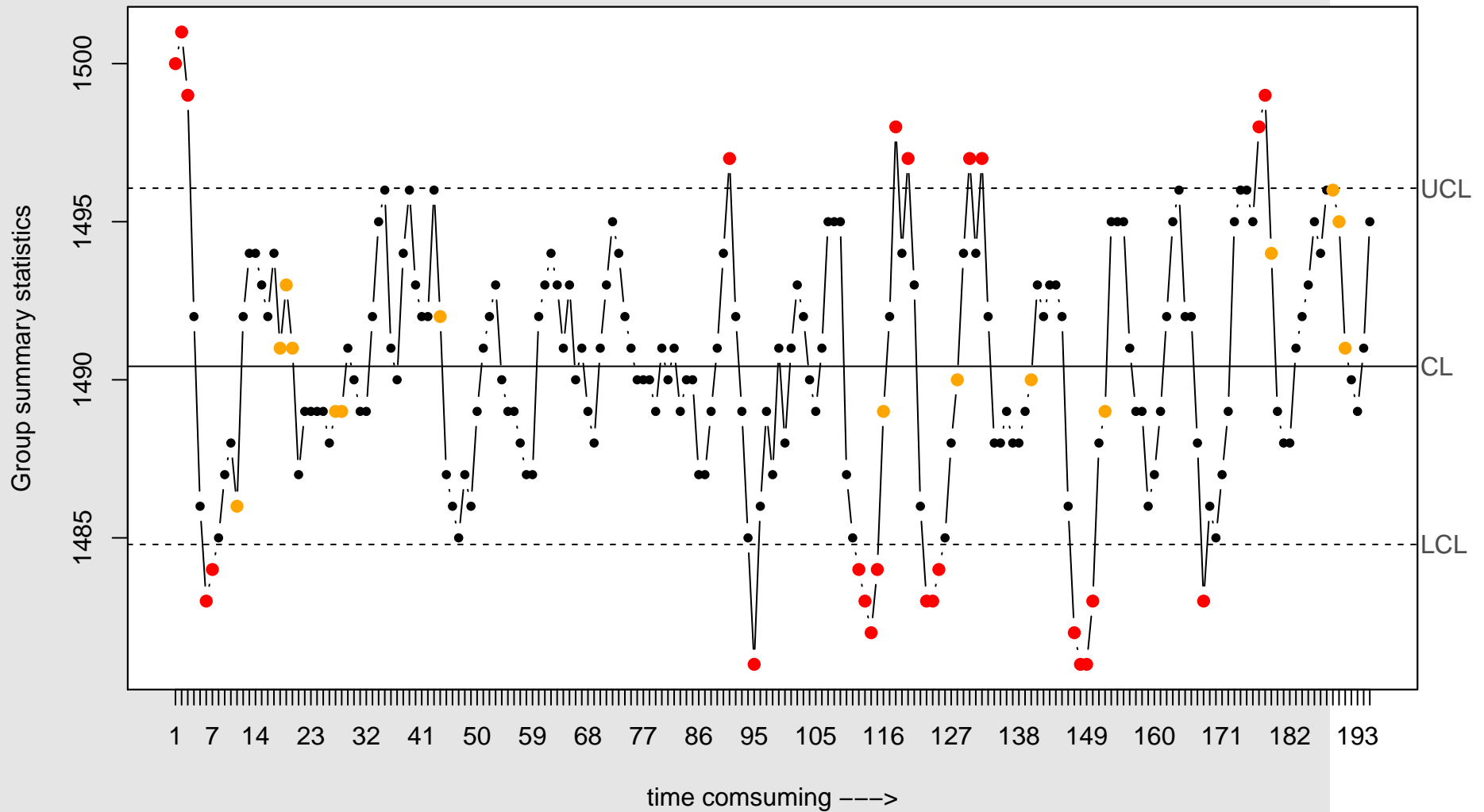
LCL = 1487.59

UCL = 1498.42

Number beyond limits = 29

Number violating runs = 16

313th column point of this product



Number of groups = 195

Center = 1490.426

StdDev = 1.878153

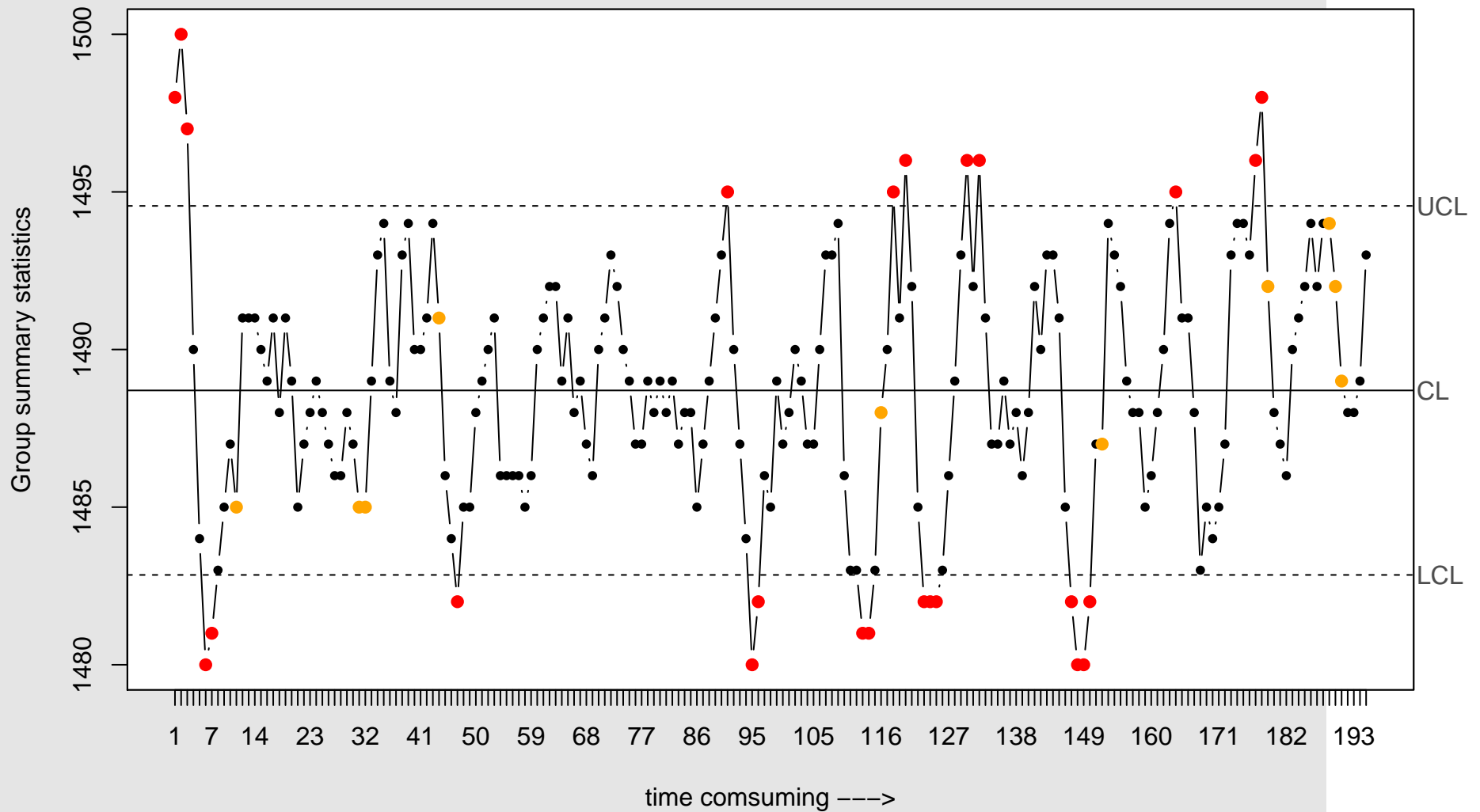
LCL = 1484.791

UCL = 1496.06

Number beyond limits = 25

Number violating runs = 15

314th column point of this product



Number of groups = 195

Center = 1488.703

StdDev = 1.951269

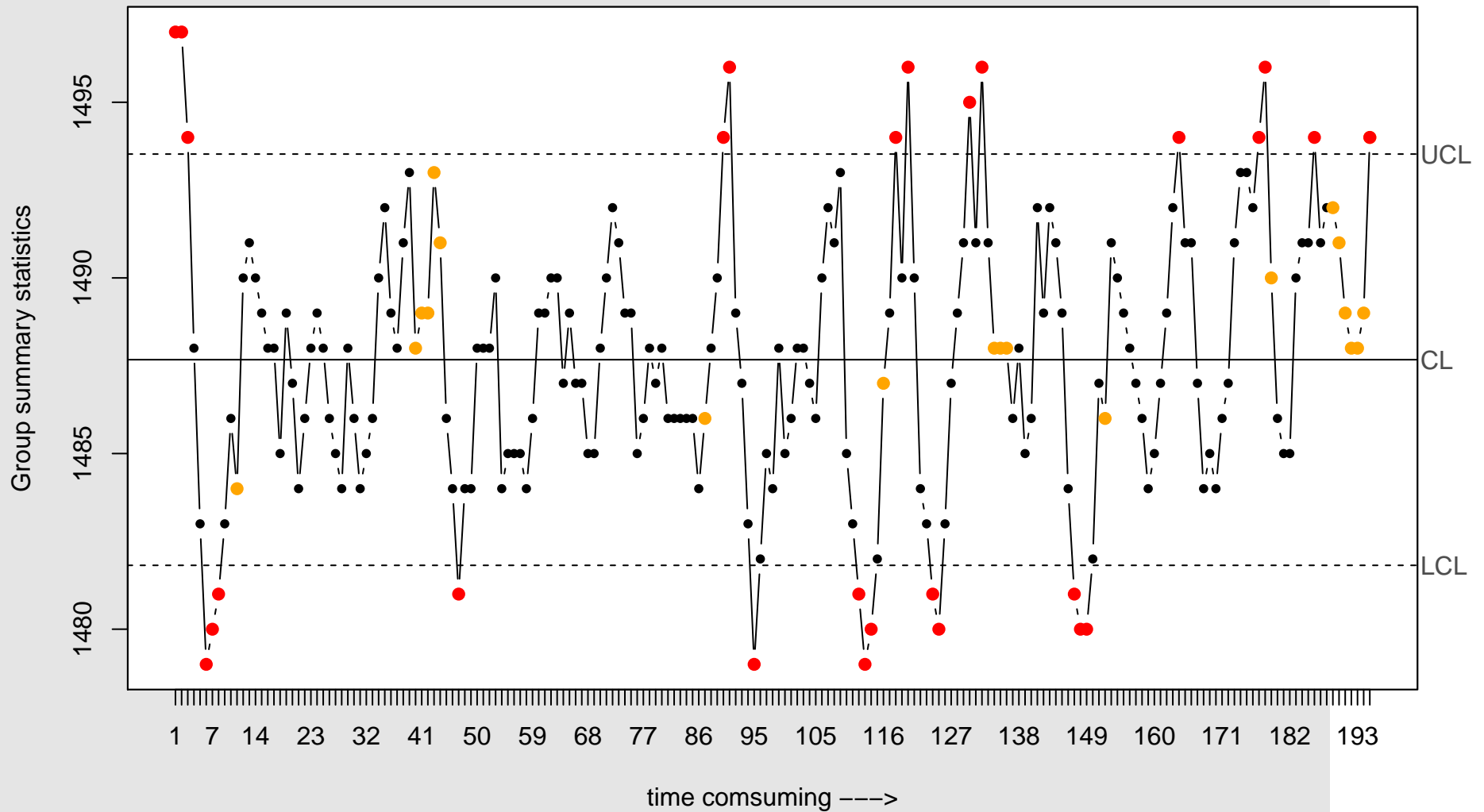
LCL = 1482.849

UCL = 1494.556

Number beyond limits = 25

Number violating runs = 10

315th column point of this product



Number of groups = 195

Center = 1487.672

StdDev = 1.951269

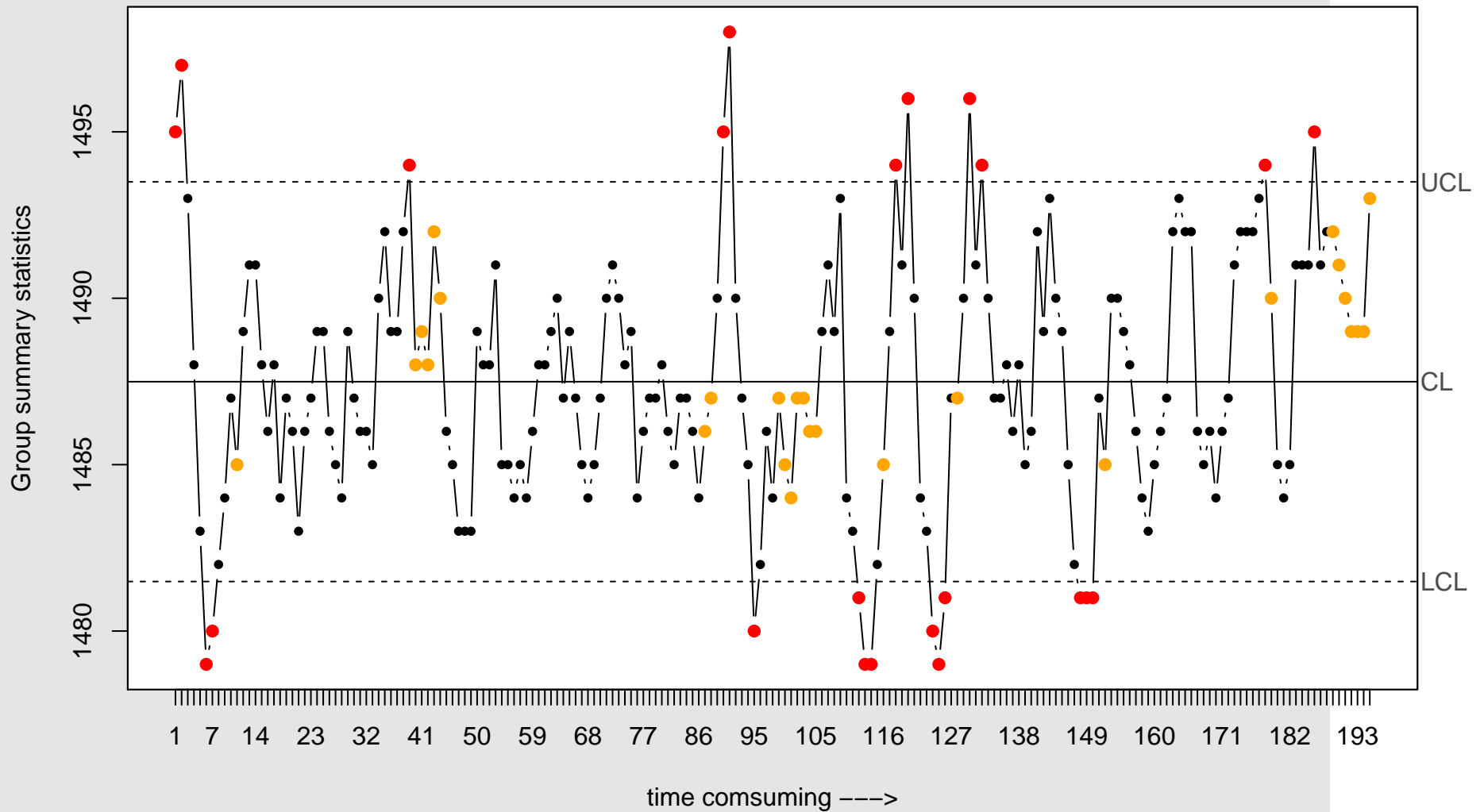
LCL = 1481.818

UCL = 1493.526

Number beyond limits = 27

Number violating runs = 20

316th column point of this product



Number of groups = 195

Center = 1487.492

StdDev = 2.001535

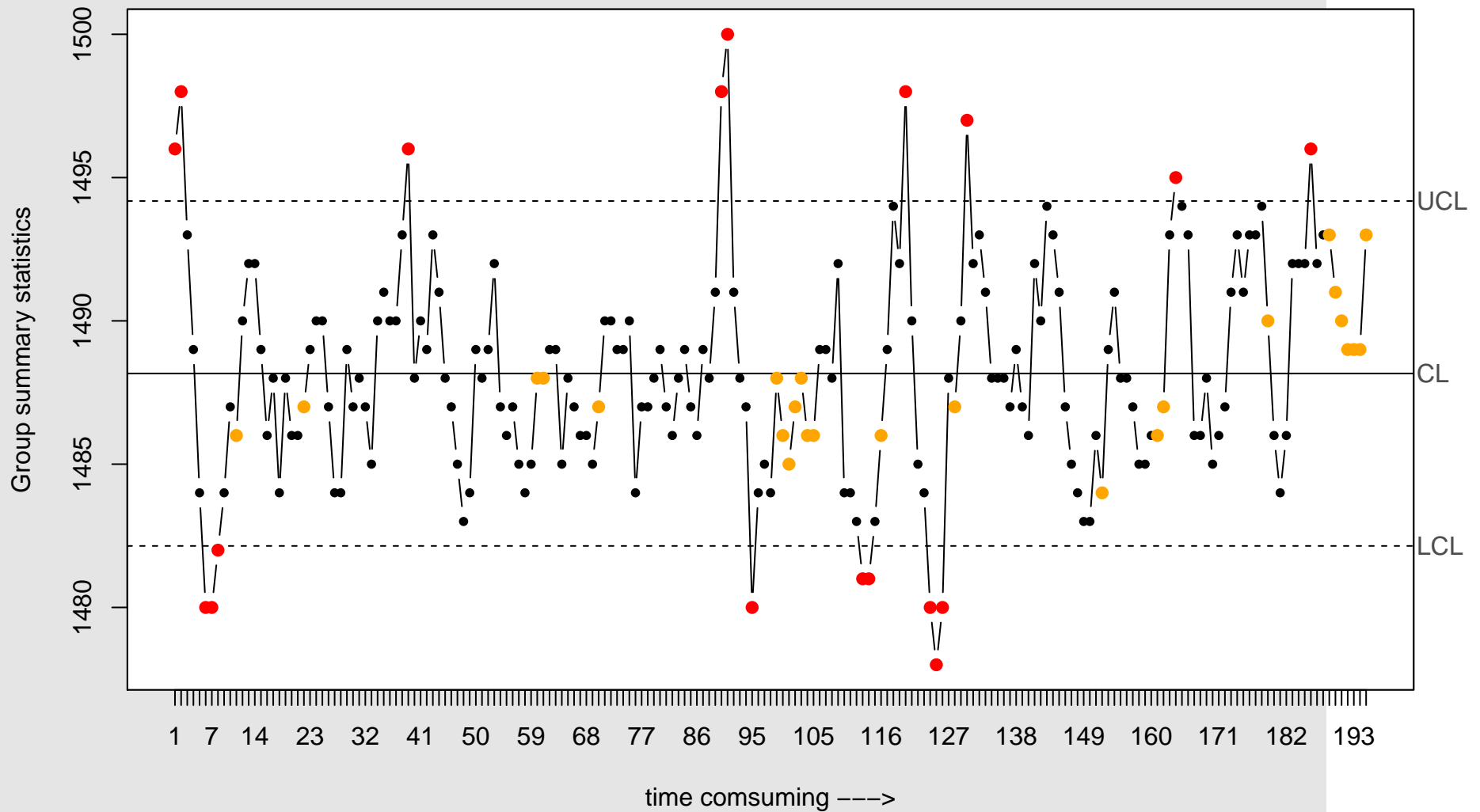
LCL = 1481.488

UCL = 1493.497

Number beyond limits = 23

Number violating runs = 26

317th column point of this product



Number of groups = 195

Center = 1488.164

StdDev = 2.006105

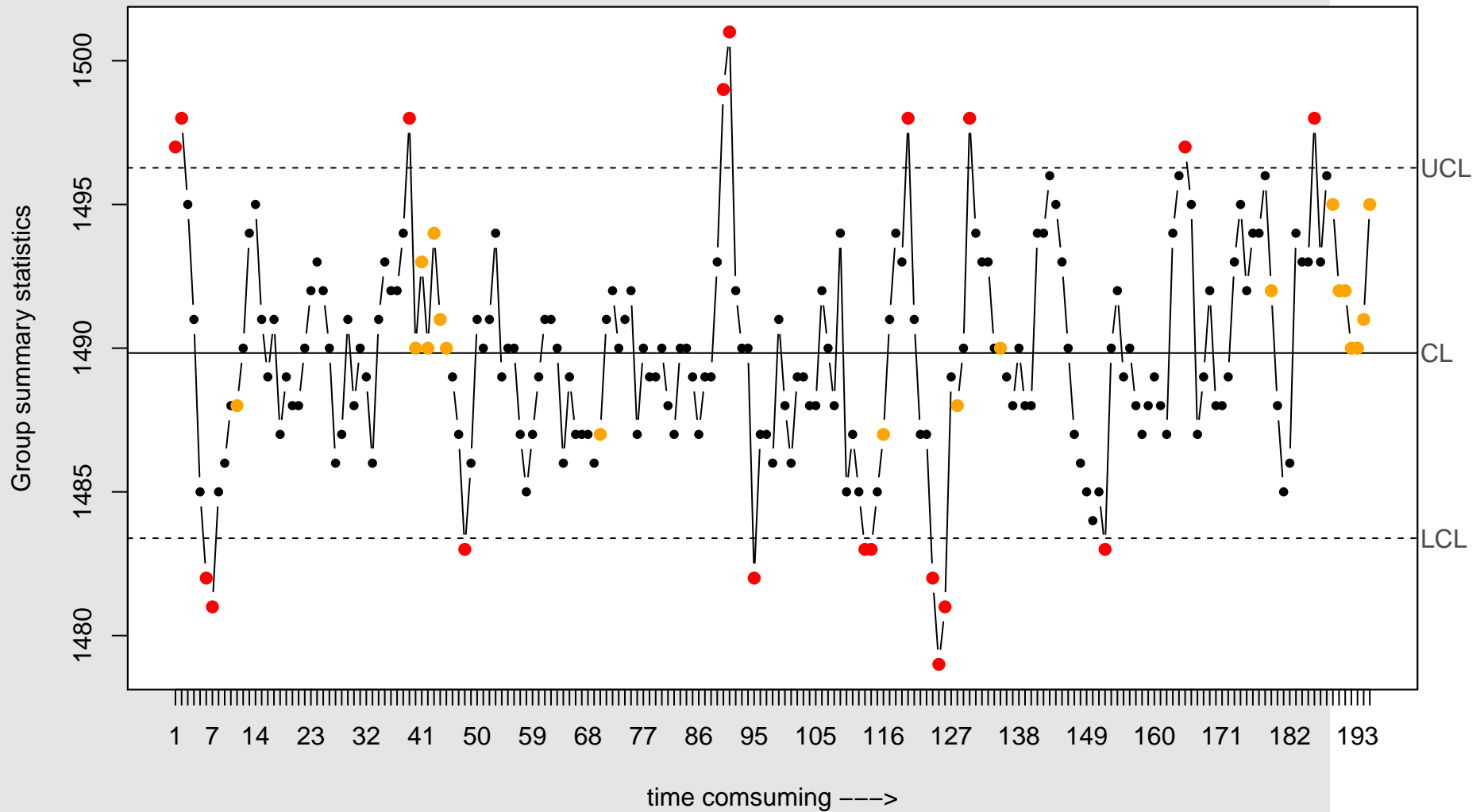
LCL = 1482.146

UCL = 1494.182

Number beyond limits = 18

Number violating runs = 25

318th column point of this product



Number of groups = 195

Center = 1489.831

StdDev = 2.147766

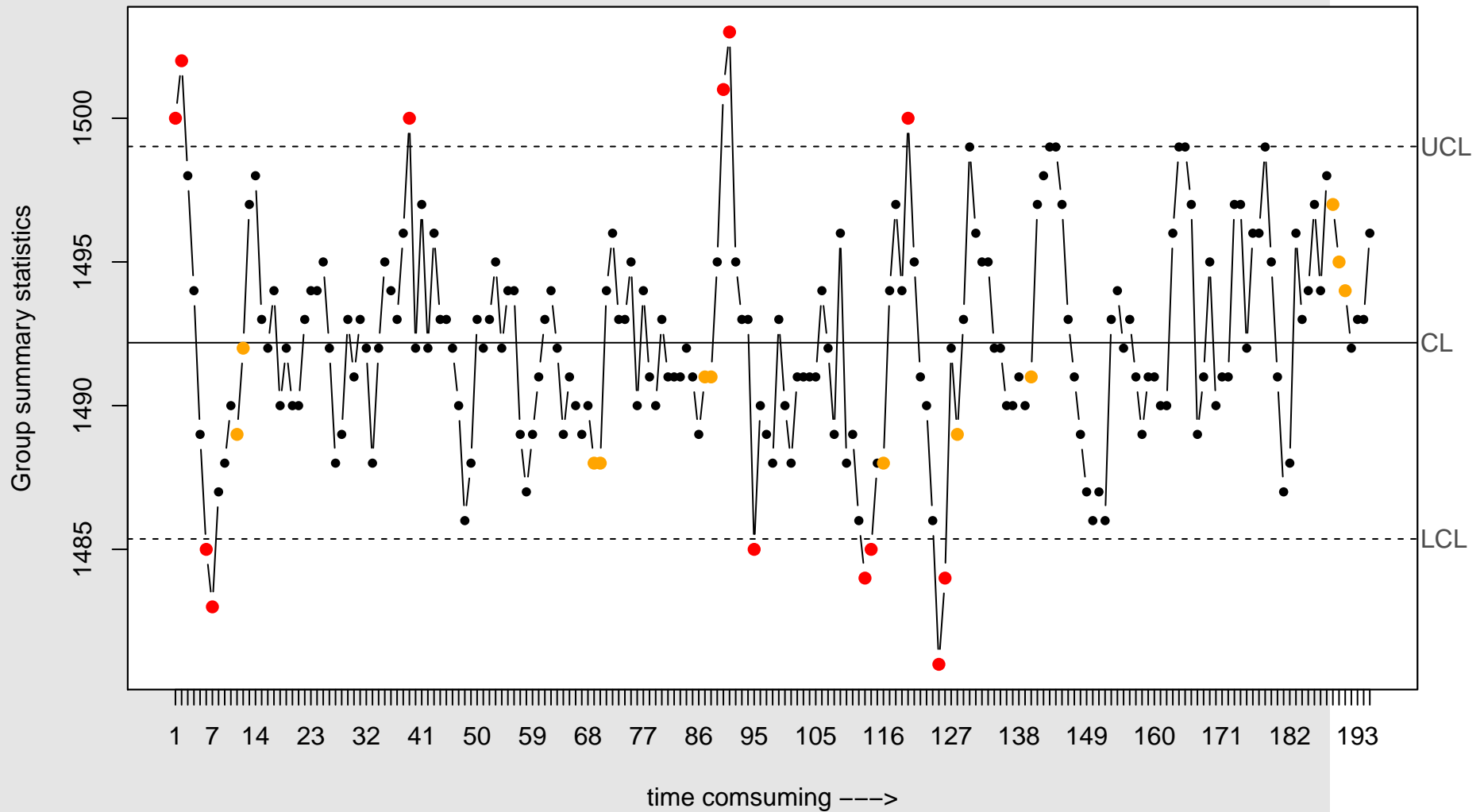
LCL = 1483.387

UCL = 1496.274

Number beyond limits = 19

Number violating runs = 19

319th column point of this product



Number of groups = 195

Center = 1492.19

StdDev = 2.275718

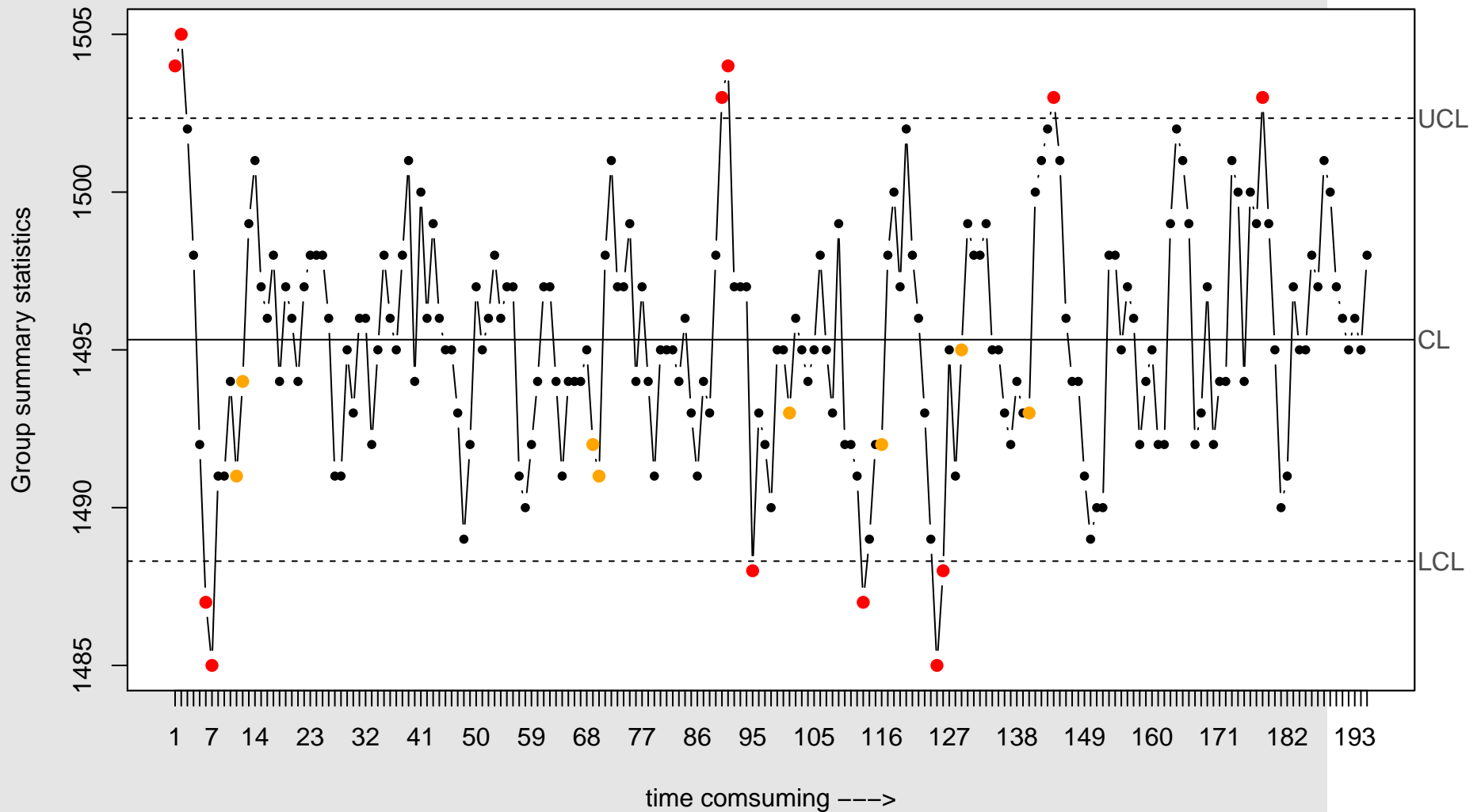
LCL = 1485.363

UCL = 1499.017

Number beyond limits = 13

Number violating runs = 12

320th column point of this product



Number of groups = 195

Center = 1495.323

StdDev = 2.339694

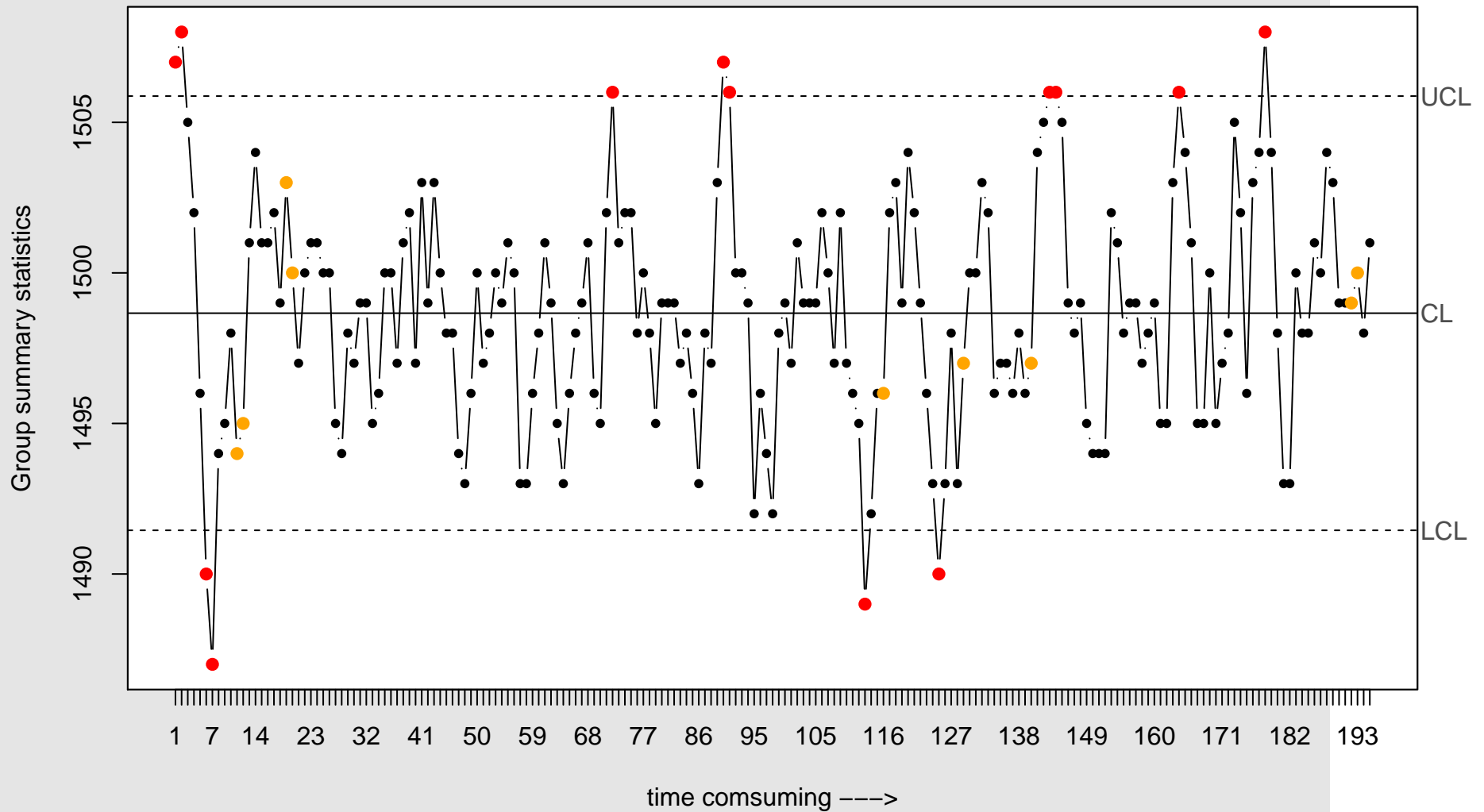
LCL = 1488.304

UCL = 1502.342

Number beyond limits = 12

Number violating runs = 8

321th column point of this product

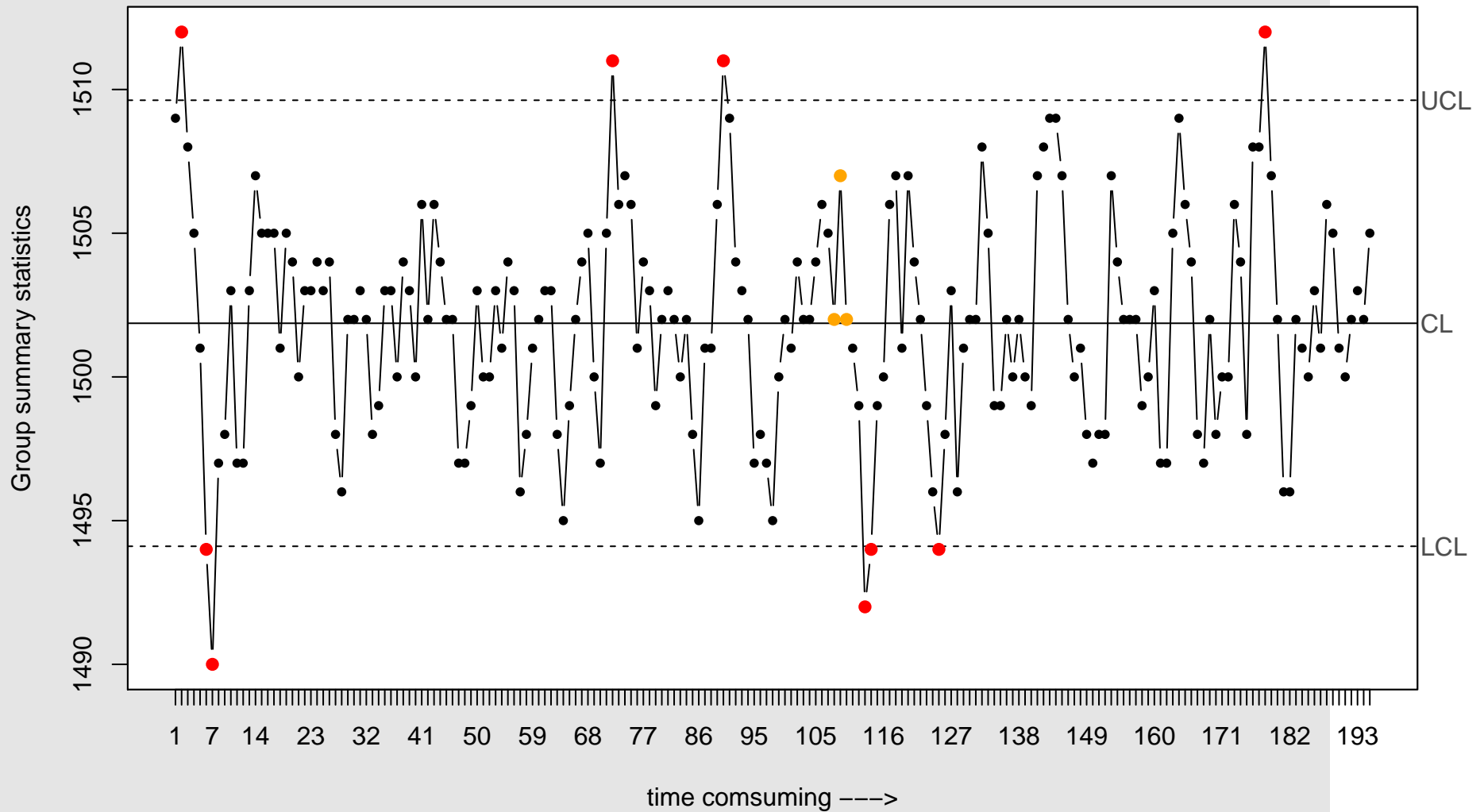


Number of groups = 195
Center = 1498.662
StdDev = 2.40367

LCL = 1491.451
UCL = 1505.873

Number beyond limits = 13
Number violating runs = 9

322th column point of this product



Number of groups = 195

Center = 1501.867

StdDev = 2.586459

LCL = 1494.107

UCL = 1509.626

Number beyond limits = 9

Number violating runs = 3