

Data File : VN059948.D  
Acq On : 31 Jan 2020 15:19  
Operator : JC/MD  
Sample : L1325-10  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
200059

Quant Time: Feb 03 01:21:16 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 18 03:09:32 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 191119   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 297121   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 274170   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 126082   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.00   | 65  | 108129   | 50.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.90% |      |
| 35) Dibromofluoromethane  | 7.57   | 113 | 91009    | 51.36 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.72% |      |
| 50) Toluene-d8            | 10.08  | 98  | 353735   | 51.53 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.06% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 125274   | 50.62 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.24% |      |

#### Target Compounds

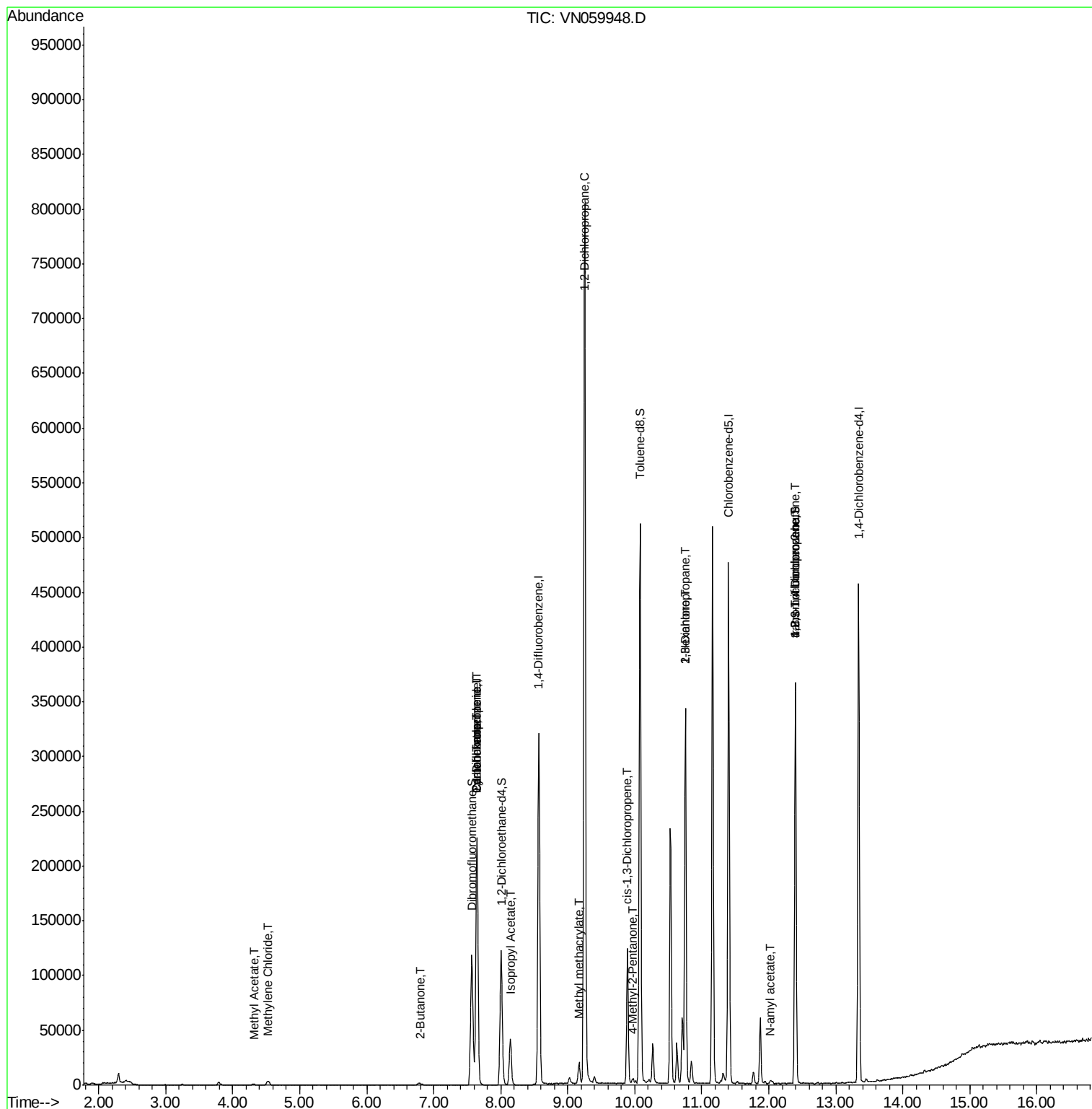
|                                |       |     |       |               | Qvalue |     |
|--------------------------------|-------|-----|-------|---------------|--------|-----|
| 16) Acetone                    | 3.80  | 43  | 4241  | Below Cal     |        | 98  |
| 18) Methyl Acetate             | 4.30  | 43  | 795   | 0.321 ug/l #  |        | 54  |
| 20) Methylene Chloride         | 4.53  | 84  | 3090  | 0.324 ug/l #  |        | 80  |
| 25) 2-Butanone                 | 6.81  | 43  | 848   | 0.706 ug/l #  |        | 50  |
| 31) Cyclohexane                | 7.65  | 56  | 3629  | 1.156 ug/l #  |        | 6   |
| 36) 1,1-Dichloropropene        | 7.64  | 75  | 13518 | 5.224 ug/l #  |        | 49  |
| 38) Carbon Tetrachloride       | 7.64  | 117 | 17639 | 6.267 ug/l #  |        | 15  |
| 43) Isopropyl Acetate          | 8.14  | 43  | 49276 | 11.805 ug/l # |        | 91  |
| 45) 1,2-Dichloropropane        | 9.25  | 63  | 934   | 0.489 ug/l #  |        | 44  |
| 48) Methyl methacrylate        | 9.16  | 41  | 2859  | 1.531 ug/l #  |        | 13  |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43  | 3219  | 1.334 ug/l    |        | 99  |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75  | 22658 | 7.105 ug/l #  |        | 59  |
| 57) 1,3-Dichloropropane        | 10.75 | 76  | 3712  | 1.211 ug/l #  |        | 42  |
| 59) 2-Hexanone                 | 10.75 | 43  | 49262 | 27.712 ug/l # |        | 55  |
| 74) N-amyl acetate             | 12.02 | 43  | 2608  | 0.727 ug/l #  |        | 45  |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 63629 | 29.988 ug/l # |        | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 63629 | 64.399 ug/l # |        | 11  |
| 92) 1,2-Dibromo-3-Chloropropan | 14.39 | 75  | 29    | Below Cal #   |        | 6   |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

Instrument :

MSVOA\_N

ClientSampled :

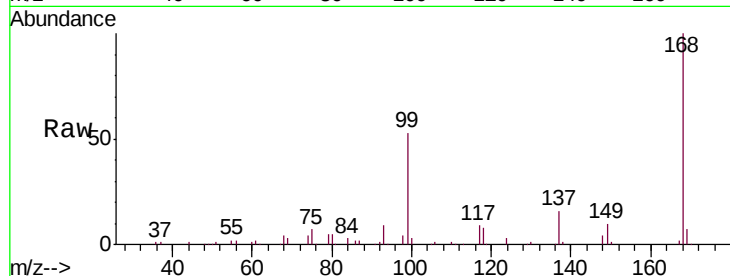
200059

Tgt Ion:168 Resp: 191119

Ion Ratio Lower Upper

168 100

99 53.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059948.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059948.D (-1732) (-)

7.64

80000

60000

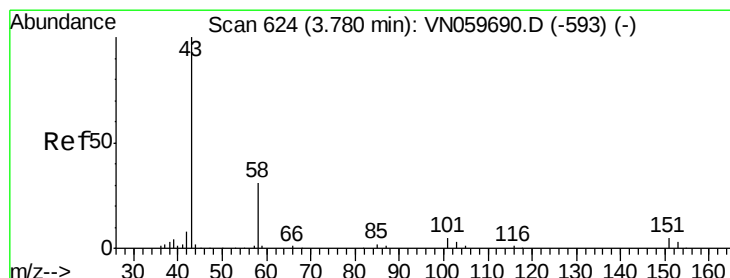
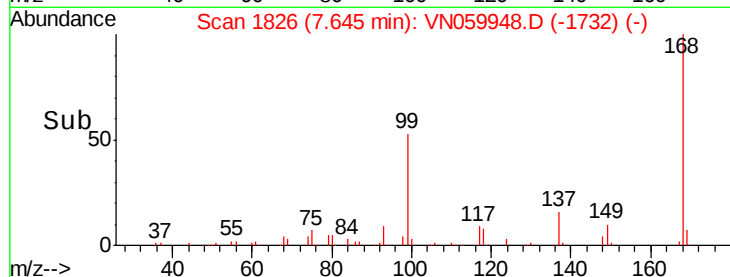
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059948.D

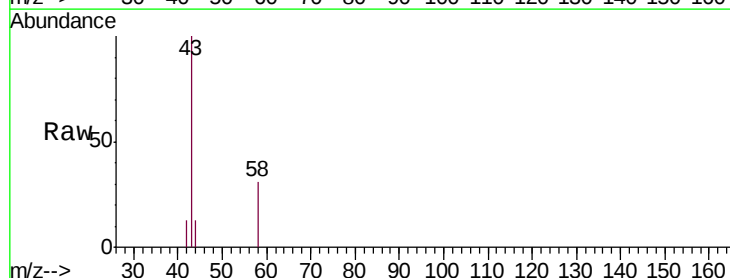
Acq: 31 Jan 2020 15:19

Tgt Ion: 43 Resp: 4241

Ion Ratio Lower Upper

43 100

58 30.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059948.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059948.D (-530) (-)

3.80

1500

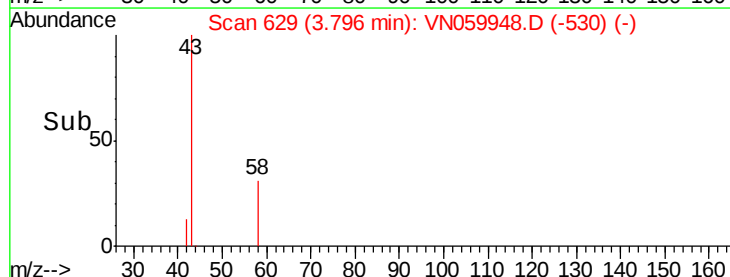
1000

500

0

3.75 3.80 3.85

Time-->

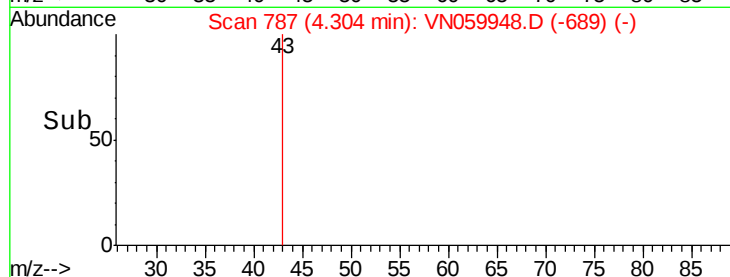
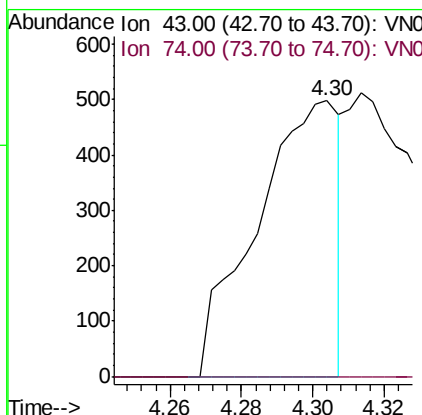
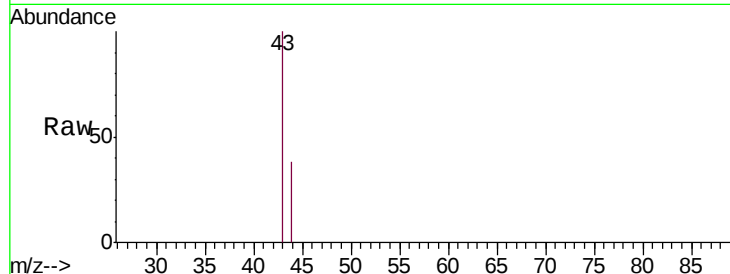




#18  
Methyl Acetate  
Concen: 0.321 ug/l  
RT: 4.30 min Scan# 787  
Delta R.T. 0.02 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

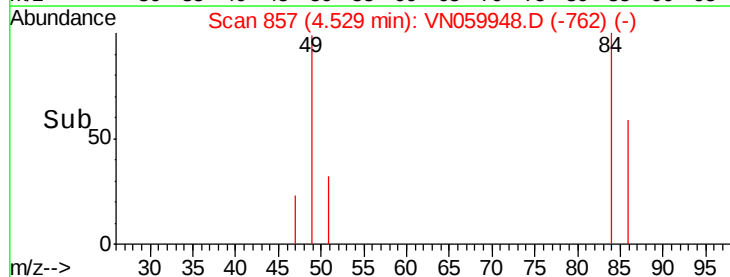
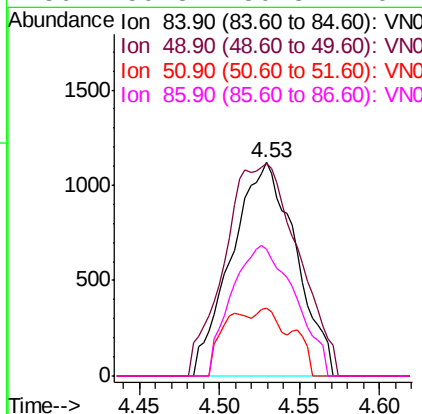
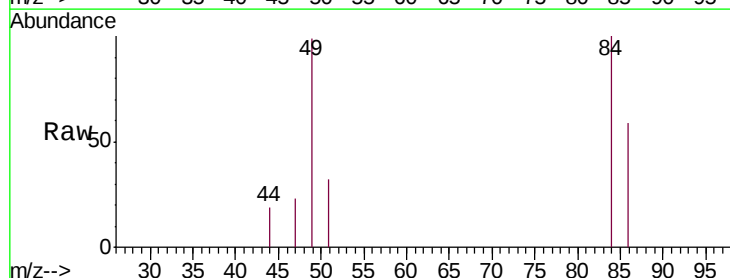
Instrument :  
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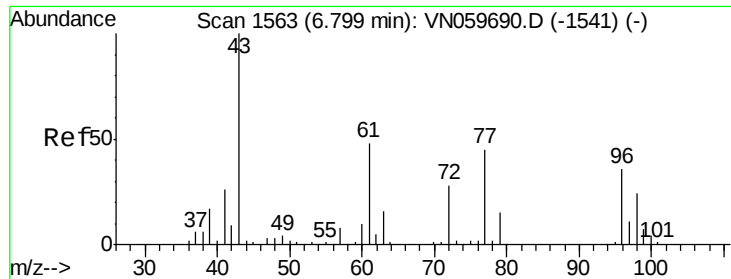
Tgt Ion: 43 Resp: 795  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.5 26.3#



#20  
Methylene Chloride  
Concen: 0.324 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. 0.01 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

Tgt Ion: 84 Resp: 3090  
Ion Ratio Lower Upper  
84 100  
49 99.3 106.6 160.0#  
51 31.9 31.9 47.9#  
86 59.3 50.8 76.2





#25

2-Butanone

Concen: 0.706 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

Instrument :

MSVOA\_N

ClientSampleId :

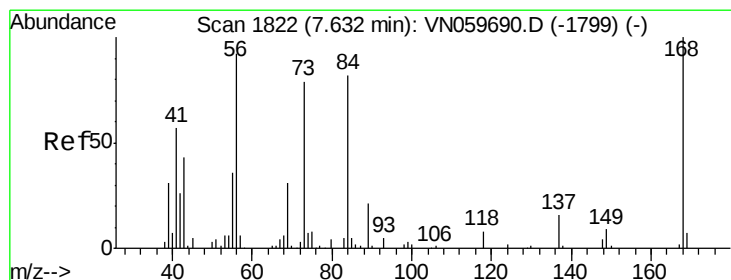
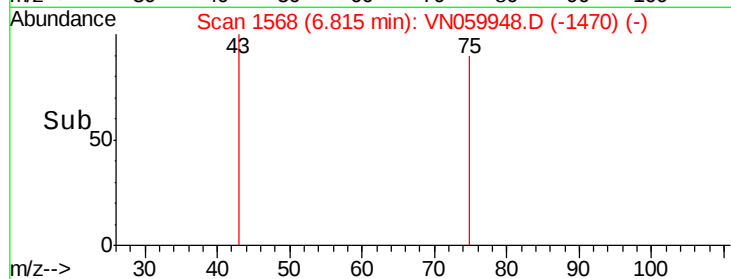
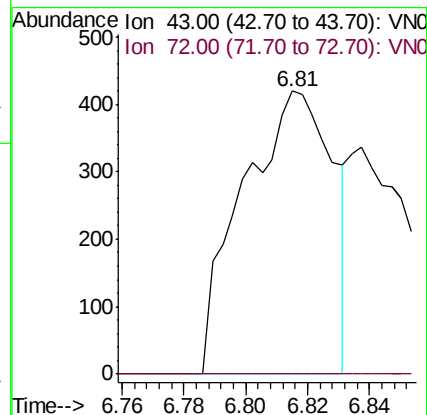
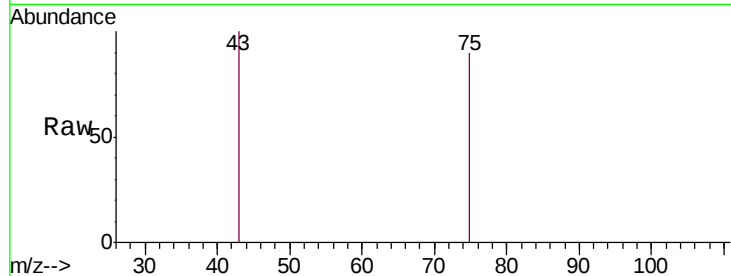
200059

Tgt Ion: 43 Resp: 848

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#31

Cyclohexane

Concen: 1.156 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

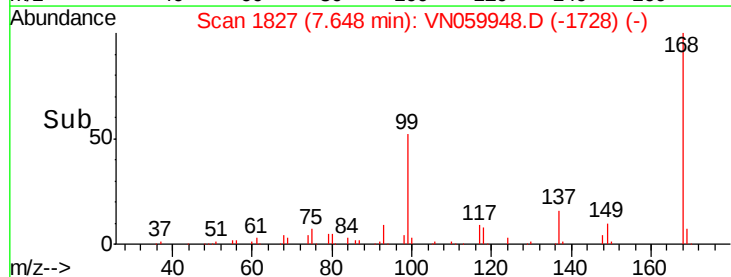
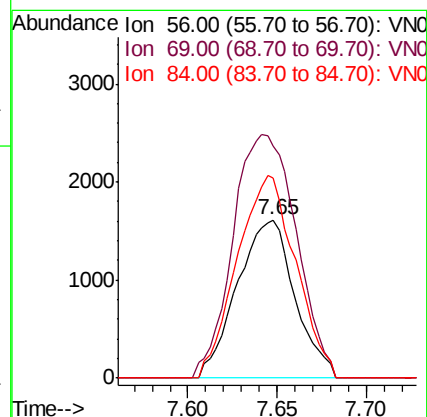
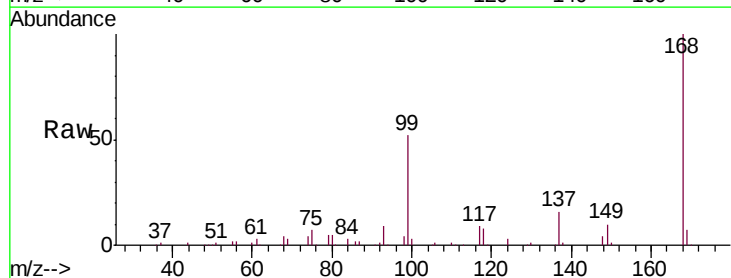
Tgt Ion: 56 Resp: 3629

Ion Ratio Lower Upper

56 100

69 147.3 26.5 39.7#

84 126.5 65.3 97.9#

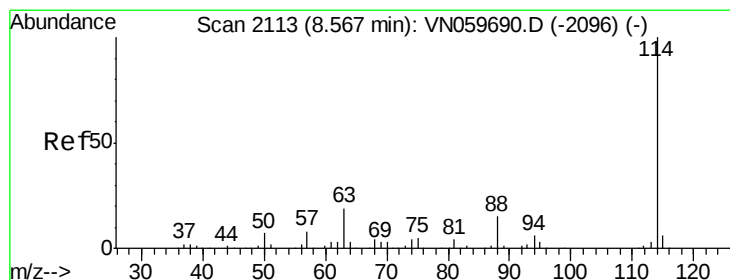
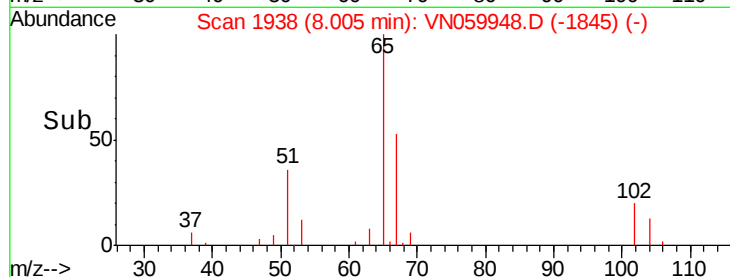
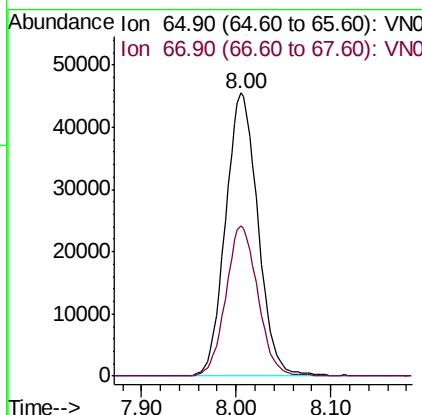
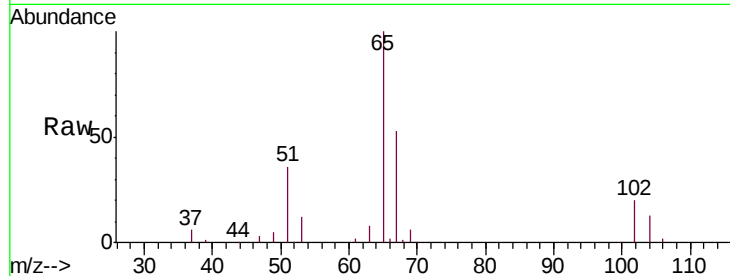




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.946 ug/l  
 RT: 8.00 min Scan# 1938  
 Delta R.T. 0.00 min  
 Lab File: VN059948.D  
 Acq: 31 Jan 2020 15:19

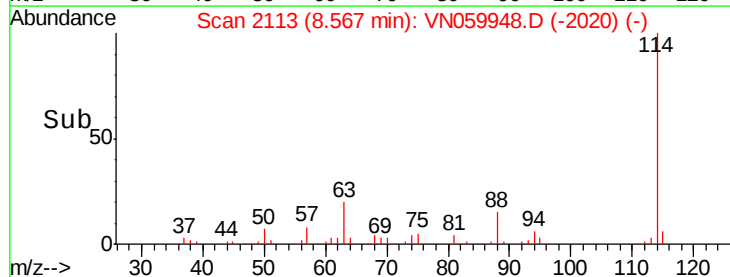
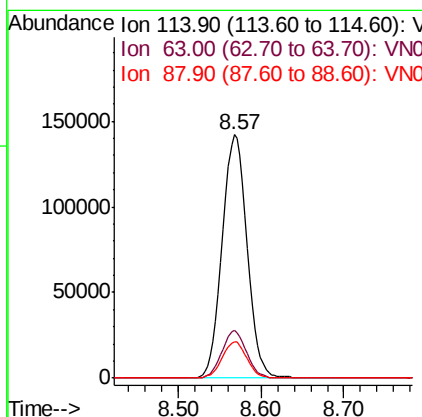
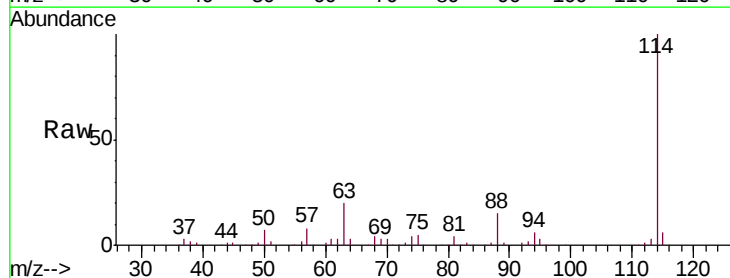
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 200059

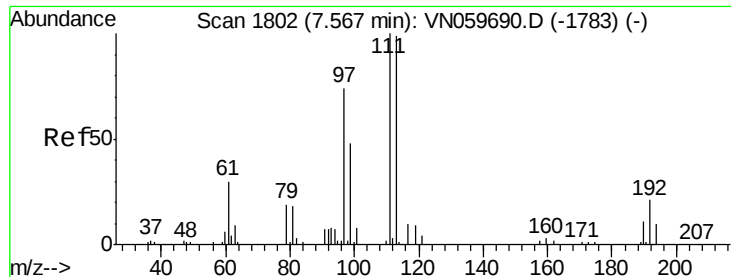
Tgt Ion: 65 Resp: 108129  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN059948.D  
 Acq: 31 Jan 2020 15:19

Tgt Ion: 114 Resp: 297121  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 43.6  
 88 15.0 0.0 31.4

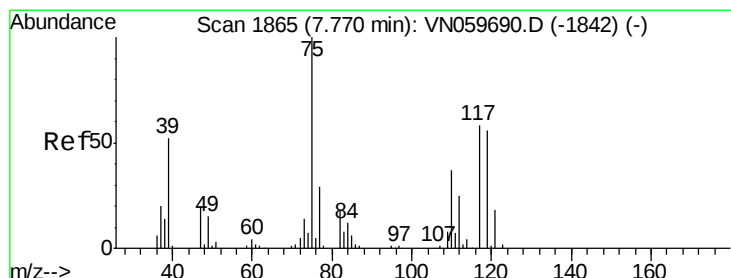
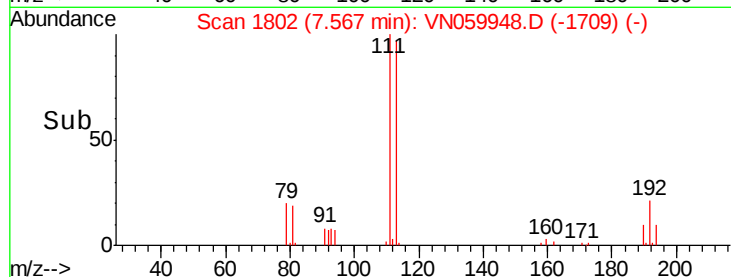
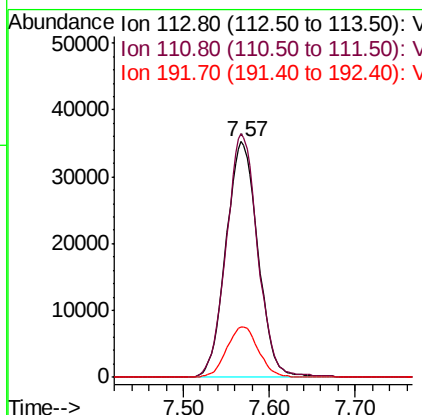
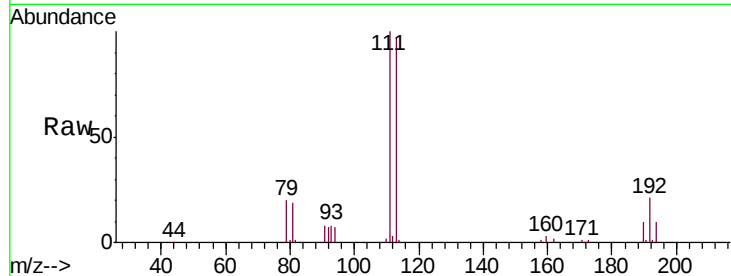




#35  
 Dibromofluoromethane  
 Concen: 51.363 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VN059948.D  
 Acq: 31 Jan 2020 15:19

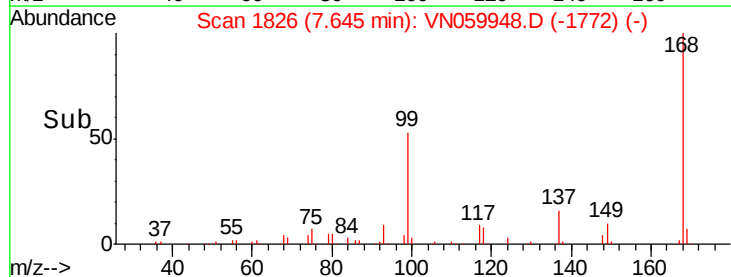
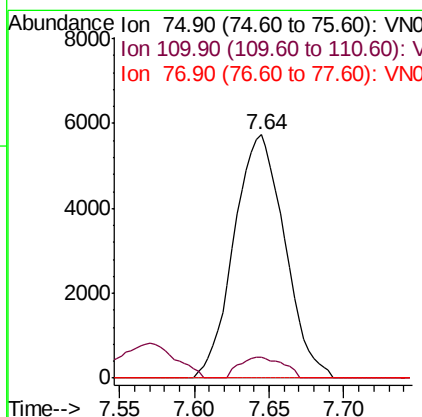
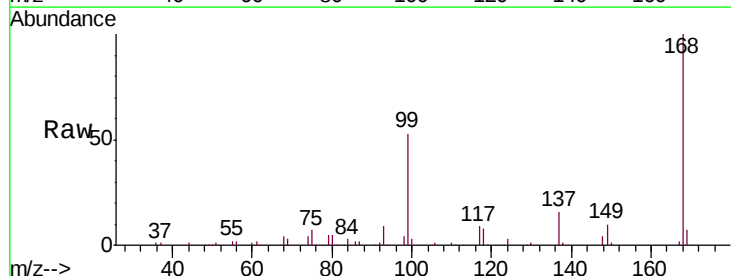
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 200059

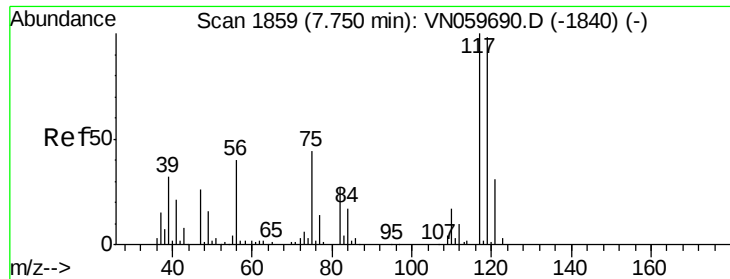
Tgt Ion: 113 Resp: 91009  
 Ion Ratio Lower Upper  
 113 100  
 111 101.9 83.5 125.3  
 192 21.1 15.4 23.2



#36  
 1,1-Dichloropropene  
 Concen: 5.224 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.13 min  
 Lab File: VN059948.D  
 Acq: 31 Jan 2020 15:19

Tgt Ion: 75 Resp: 13518  
 Ion Ratio Lower Upper  
 75 100  
 110 7.4 16.6 49.7#  
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.267 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

Instrument :

MSVOA\_N

ClientSampleId :

200059

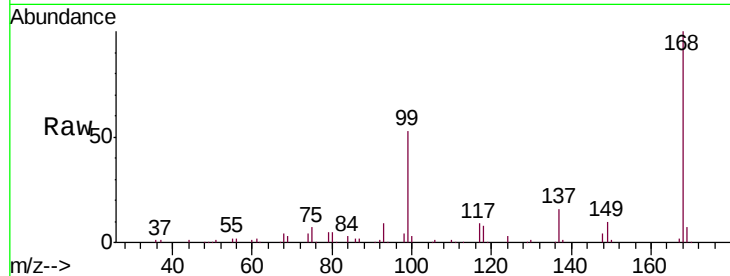
Tgt Ion: 117 Resp: 17639

Ion Ratio Lower Upper

117 100

119 4.2 76.5 114.7#

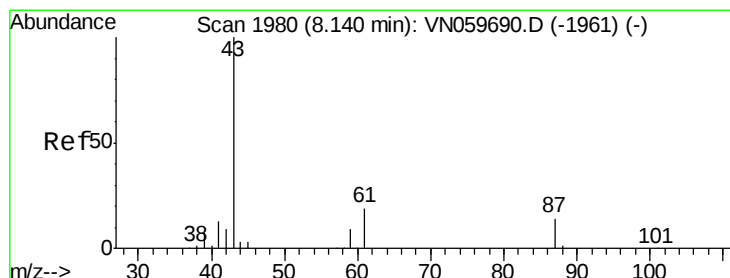
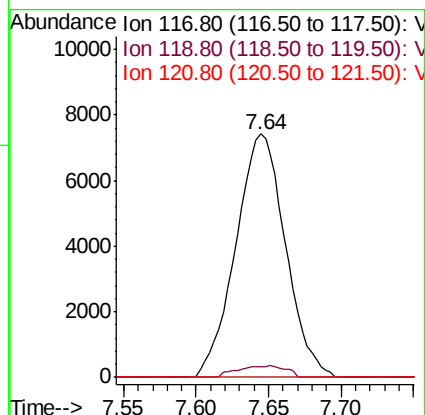
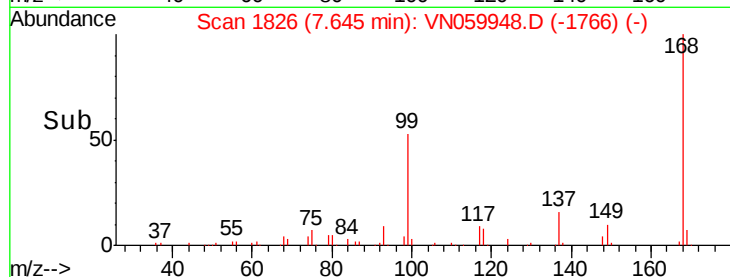
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.805 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

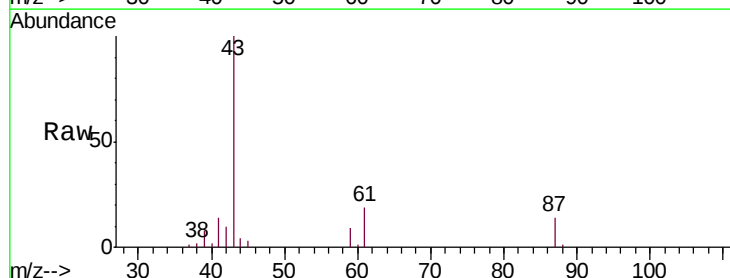
Tgt Ion: 43 Resp: 49276

Ion Ratio Lower Upper

43 100

61 20.0 20.2 30.2#

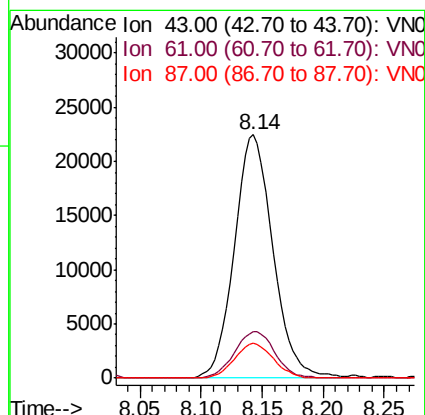
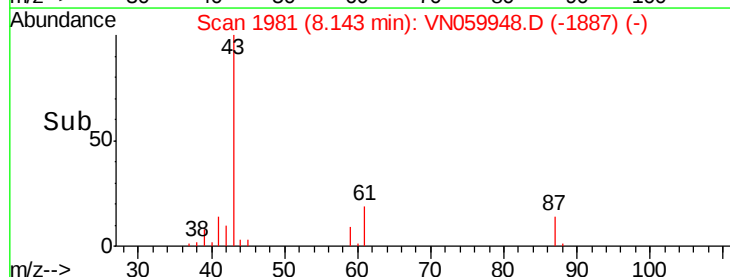
87 14.2 9.5 14.3

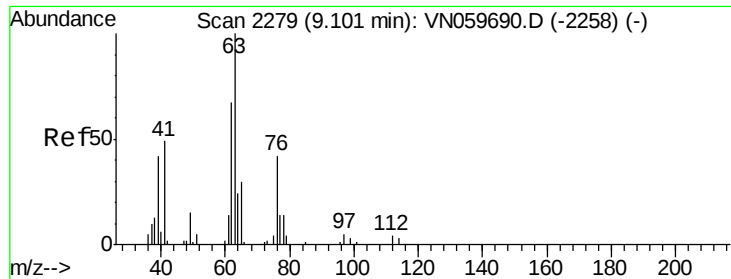


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.489 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

Instrument :

MSVOA\_N

ClientSampleId :

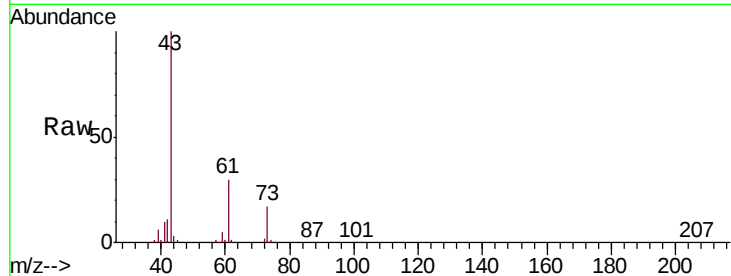
200059

Tgt Ion: 63 Resp: 934

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.25

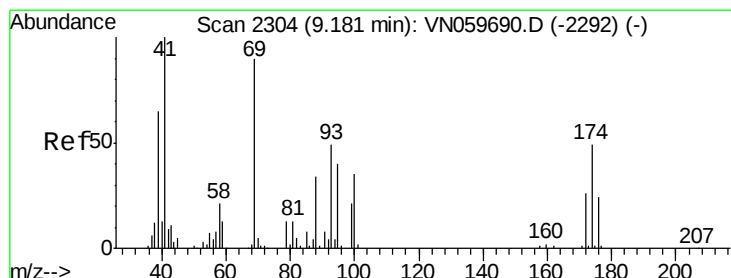
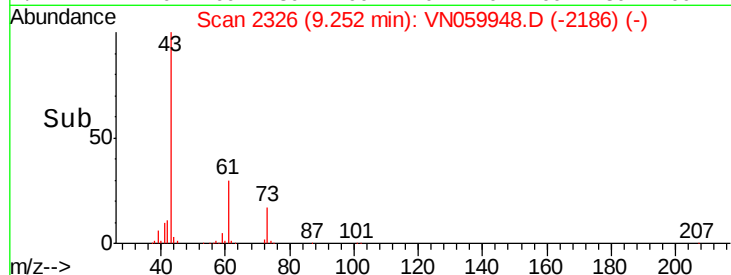
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.531 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.03 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

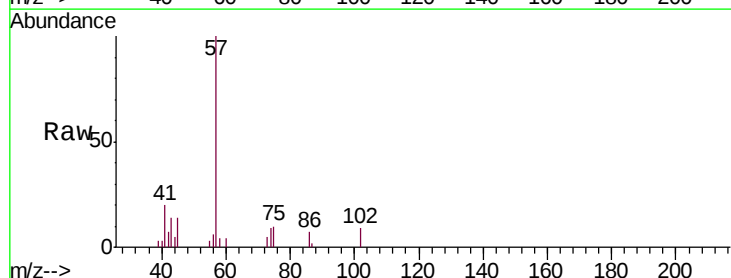
Tgt Ion: 41 Resp: 2859

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

39 0.0 51.3 76.9#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

25000

20000

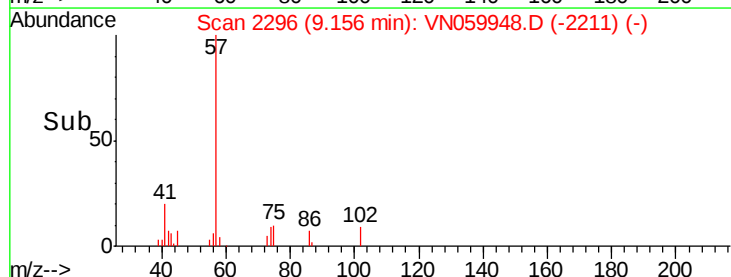
15000

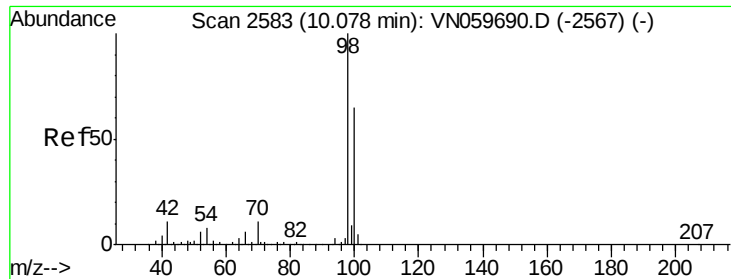
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 51.527 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

Instrument :

MSVOA\_N

ClientSampleId :

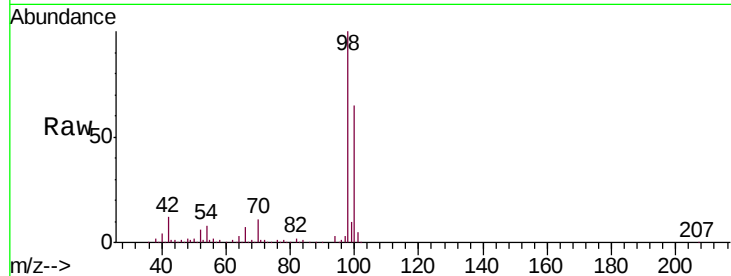
200059

Tgt Ion: 98 Resp: 353735

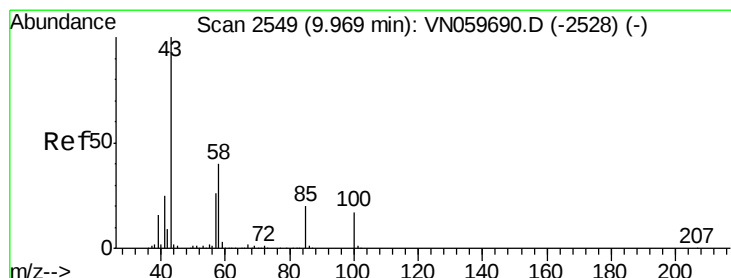
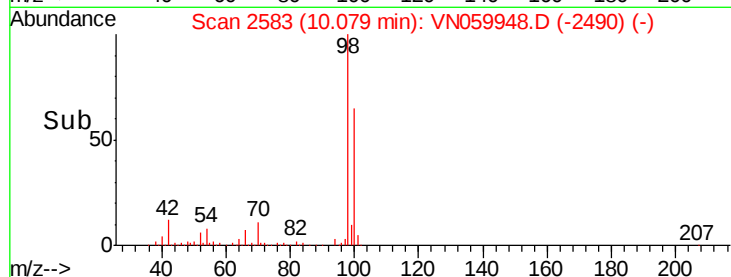
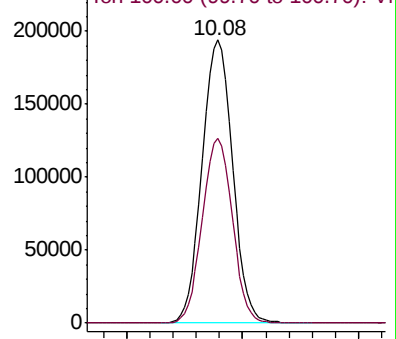
Ion Ratio Lower Upper

98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059948.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.334 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN059948.D

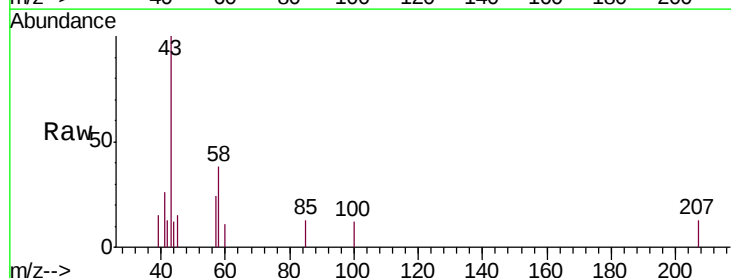
Acq: 31 Jan 2020 15:19

Tgt Ion: 43 Resp: 3219

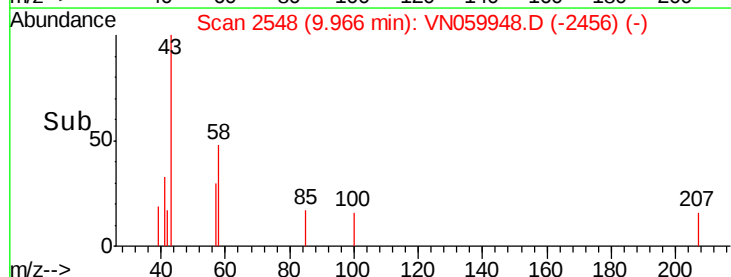
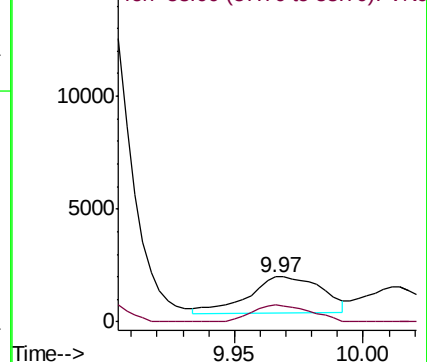
Ion Ratio Lower Upper

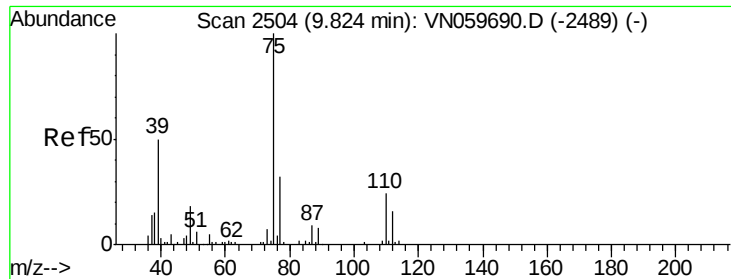
43 100

58 36.9 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN059948.D (-2456) (-)

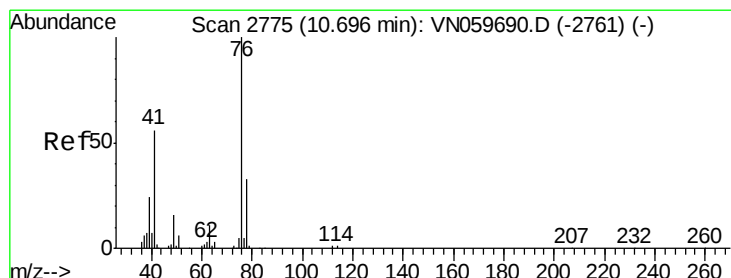
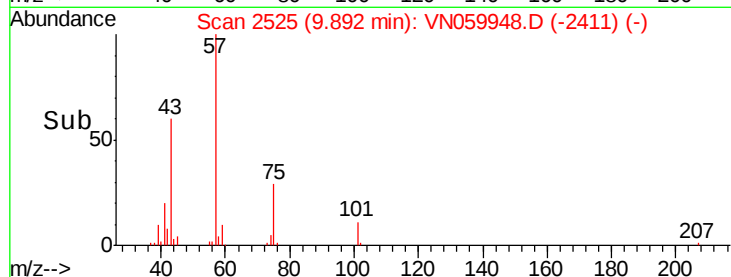
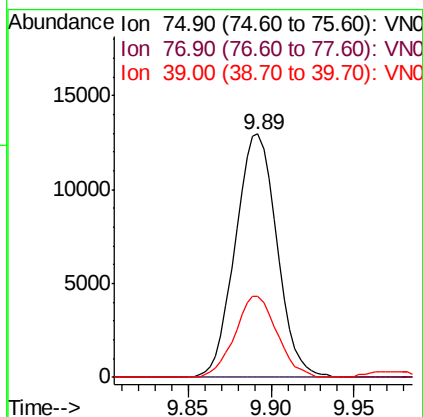
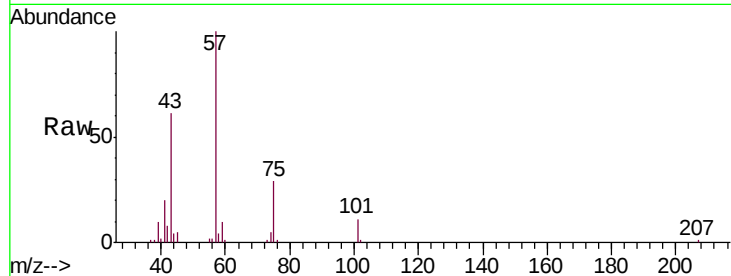




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.105 ug/l  
 RT: 9.89 min Scan# 2525  
 Delta R.T. 0.07 min  
 Lab File: VN059948.D  
 Acq: 31 Jan 2020 15:19

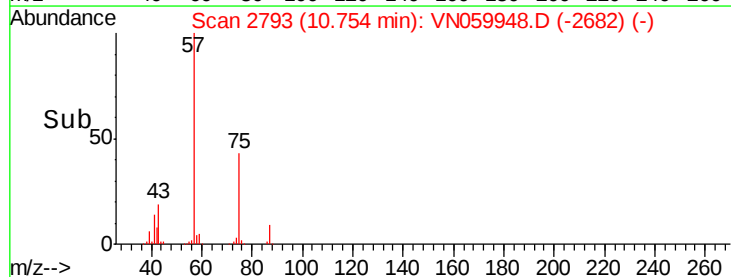
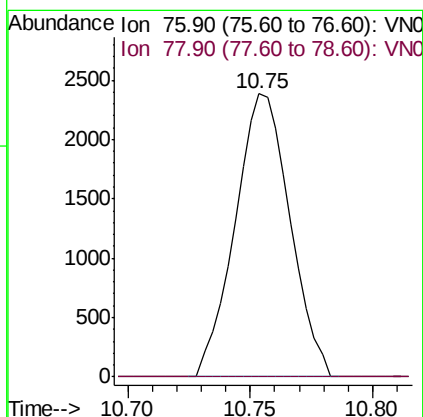
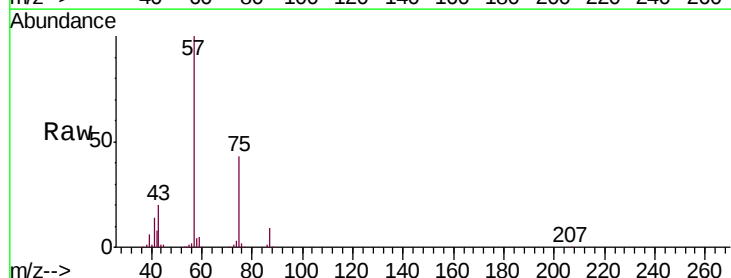
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 200059

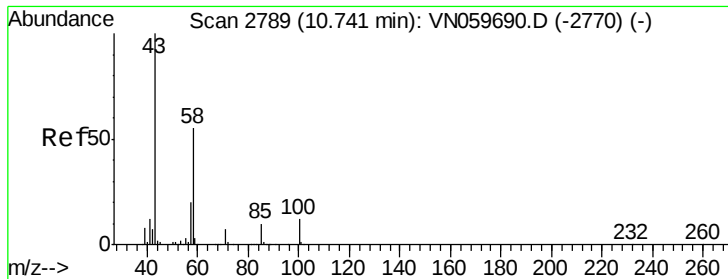
Tgt Ion: 75 Resp: 22658  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.1 37.7#  
 39 33.2 46.1 69.1#



#57  
 1,3-Dichloropropane  
 Concen: 1.211 ug/l  
 RT: 10.75 min Scan# 2793  
 Delta R.T. 0.06 min  
 Lab File: VN059948.D  
 Acq: 31 Jan 2020 15:19

Tgt Ion: 76 Resp: 3712  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.8 38.8#

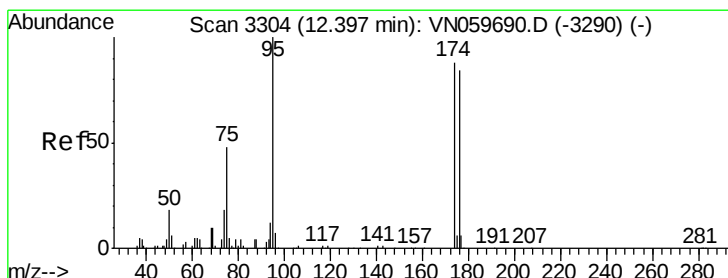
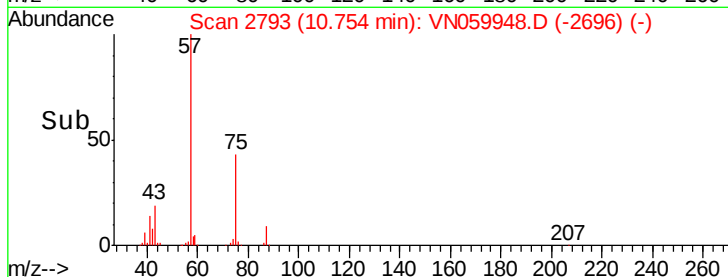
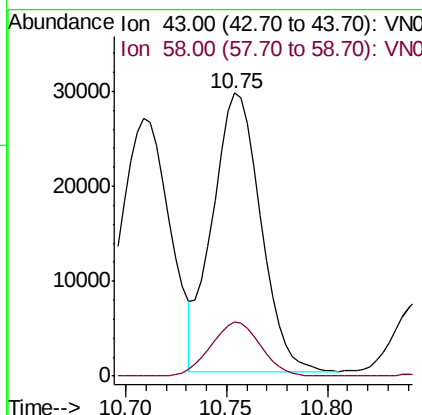
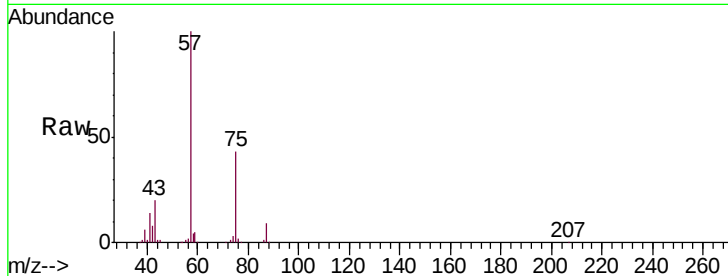




#59  
2-Hexanone  
Concen: 27.712 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

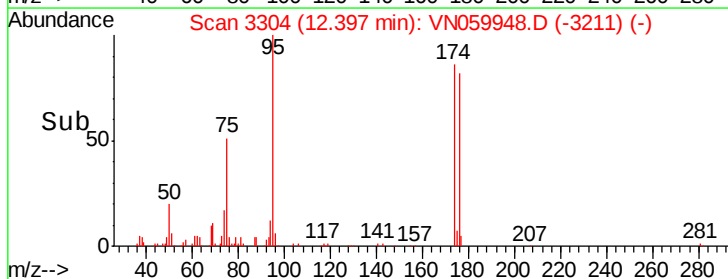
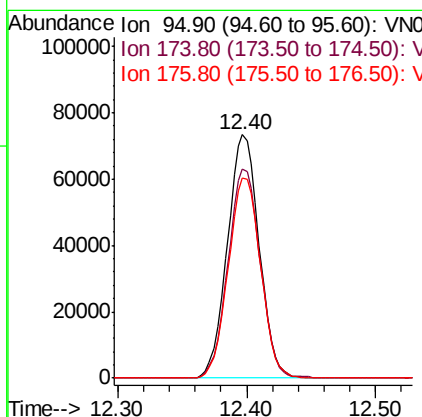
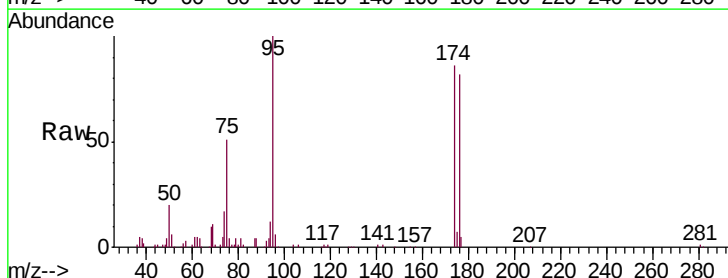
Instrument :  
MSVOA\_N  
ClientSampleId :  
200059

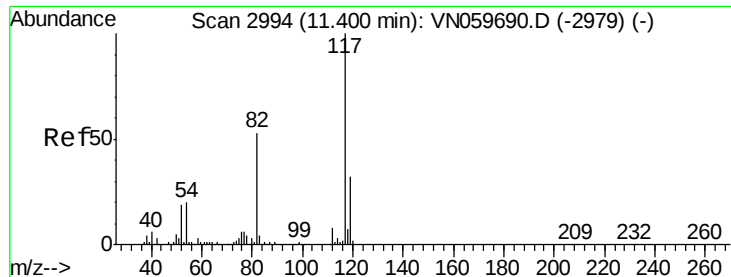
Tgt Ion: 43 Resp: 49262  
Ion Ratio Lower Upper  
43 100  
58 19.9 25.8 77.3#



#62  
4-Bromofluorobenzene  
Concen: 50.619 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

Tgt Ion: 95 Resp: 125274  
Ion Ratio Lower Upper  
95 100  
174 87.0 0.0 151.4  
176 83.8 0.0 146.0

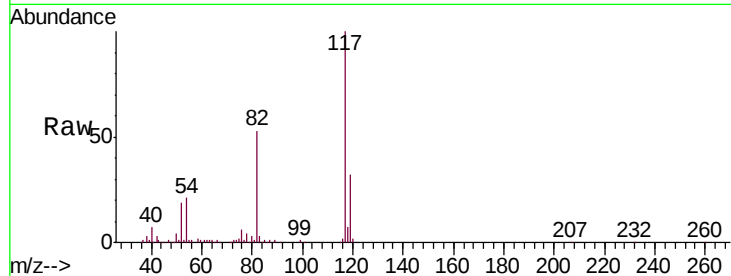




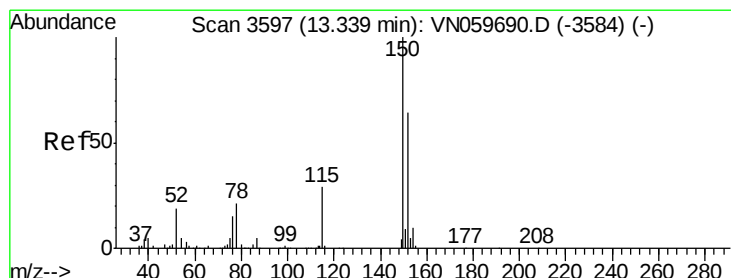
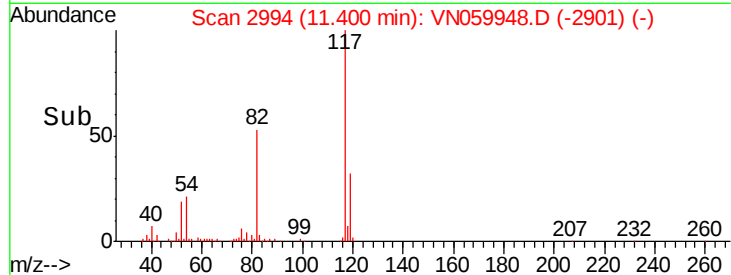
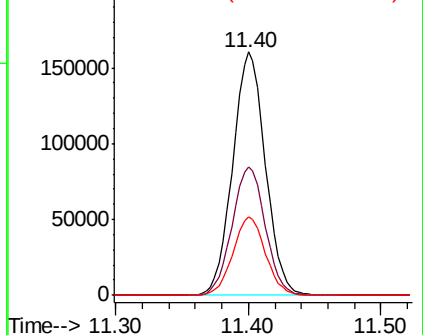
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
200059

Tgt Ion:117 Resp: 274170  
Ion Ratio Lower Upper  
117 100  
82 52.9 45.9 68.9  
119 32.4 25.5 38.3

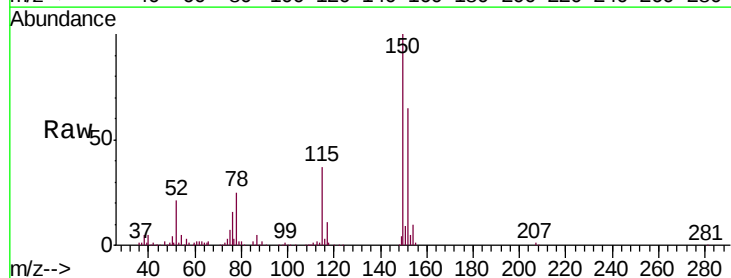


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

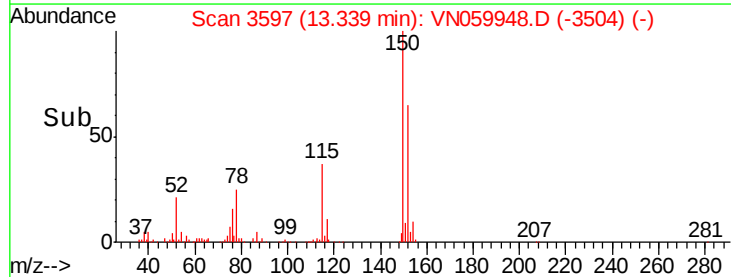
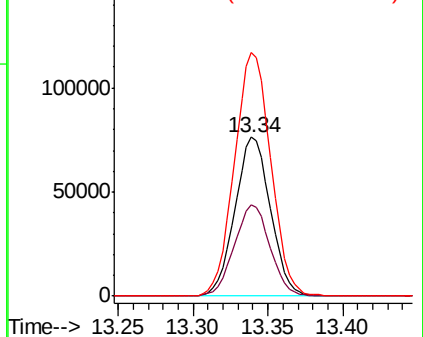


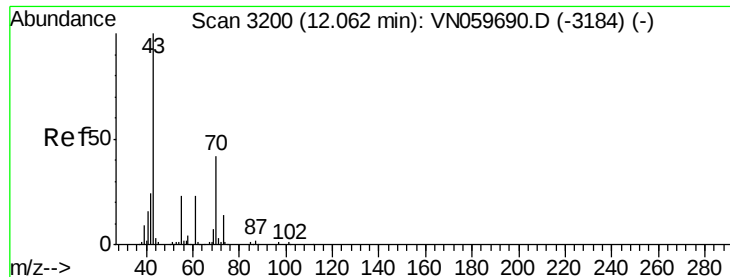
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. 0.00 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

Tgt Ion:152 Resp: 126082  
Ion Ratio Lower Upper  
152 100  
115 57.8 30.3 90.9  
150 156.7 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.727 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059948.D

Acq: 31 Jan 2020 15:19

Instrument :

MSVOA\_N

ClientSampleId :

200059

Tgt Ion: 43 Resp: 2608

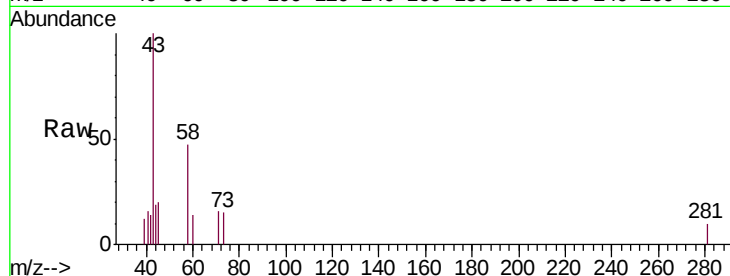
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

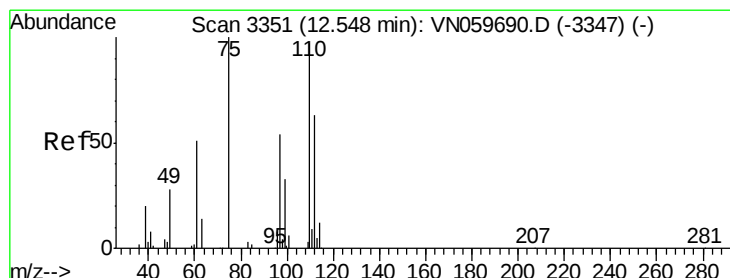
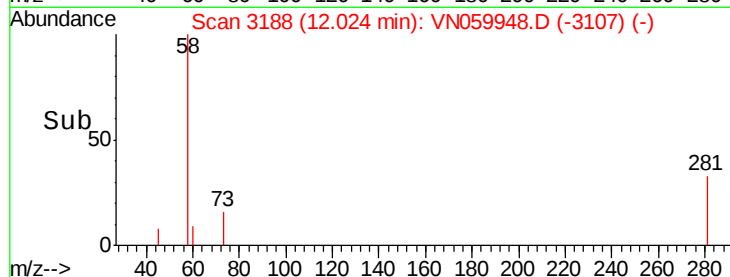
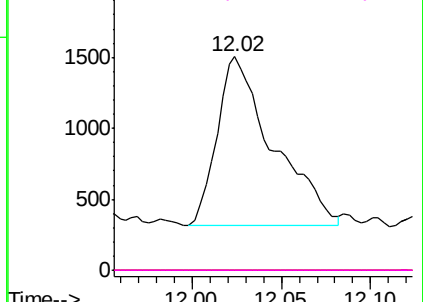


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 29.988 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059948.D

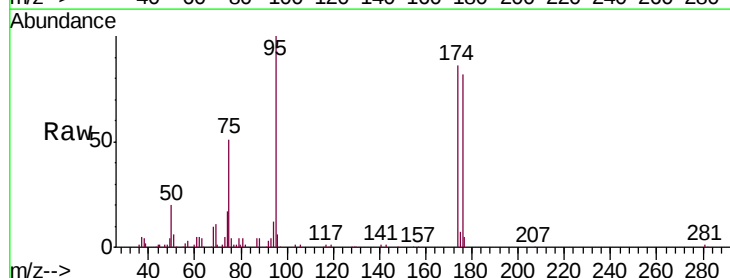
Acq: 31 Jan 2020 15:19

Tgt Ion: 75 Resp: 63629

Ion Ratio Lower Upper

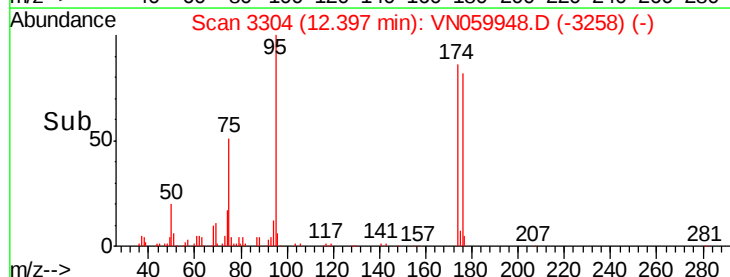
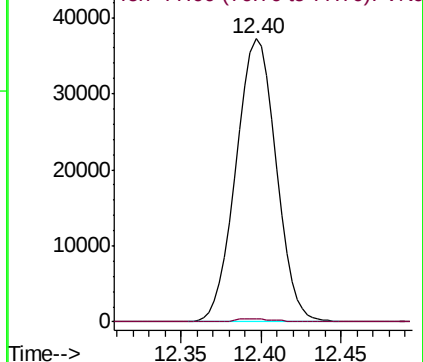
75 100

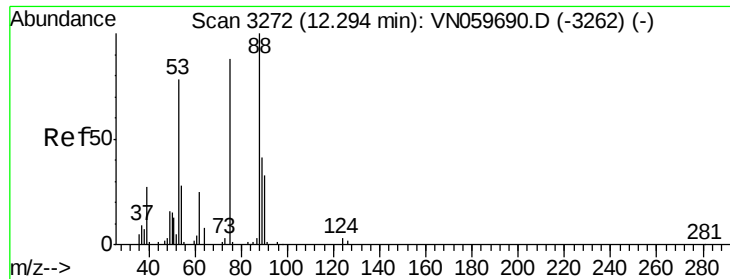
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

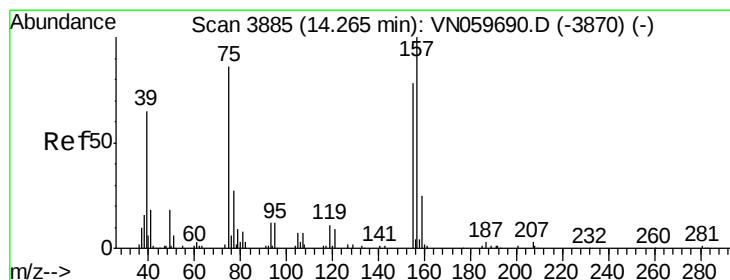
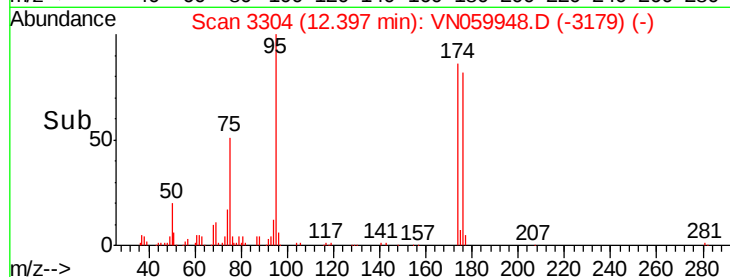
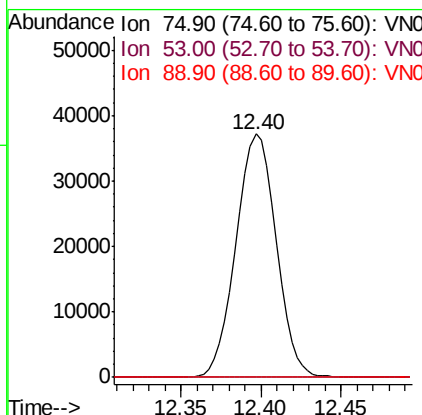
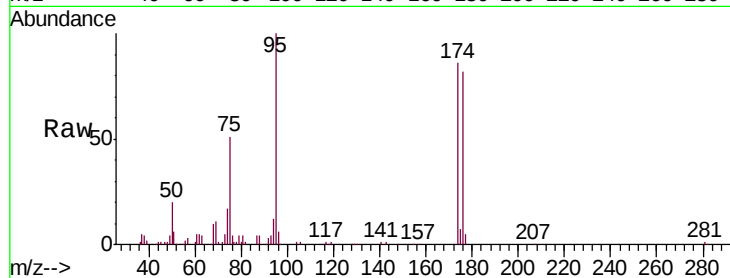




#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.399 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.10 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

Instrument :  
MSVOA\_N  
ClientSampled :  
200059

Tgt Ion: 75 Resp: 63629  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.1 117.1#  
89 0.0 35.4 53.2#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: Below Cal  
RT: 14.39 min Scan# 3923  
Delta R.T. 0.12 min  
Lab File: VN059948.D  
Acq: 31 Jan 2020 15:19

Tgt Ion: 75 Resp: 29  
Ion Ratio Lower Upper  
75 100  
155 0.0 37.0 110.9#  
157 0.0 48.4 145.2#

