

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111319\  
 Data File : VN059212.D  
 Acq On : 13 Nov 2019 16:21  
 Operator : JC/SP  
 Sample : K5814-10  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 30535

Quant Time: Nov 22 04:02:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 433998   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 673816   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 587288   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 235476   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.00   | 65  | 282189   | 52.89 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.78% |      |
| 35) Dibromofluoromethane  | 7.57   | 113 | 218255   | 54.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.50% |      |
| 50) Toluene-d8            | 10.08  | 98  | 870560   | 54.93 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.86% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 288782   | 50.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.08% |      |

## Target Compounds

|                               |       |     |         |          |        | Qvalue |
|-------------------------------|-------|-----|---------|----------|--------|--------|
| 11) Tert butyl alcohol        | 4.75  | 59  | 713933  | 702.188  | ug/l   | 100    |
| 14) Allyl chloride            | 4.56  | 41  | 2219    | 0.267    | ug/l # | 78     |
| 15) Acrylonitrile             | 5.01  | 53  | 2692    | 1.064    | ug/l # | 32     |
| 16) Acetone                   | 3.79  | 43  | 7017657 | 2529.542 | ug/l # | 78     |
| 17) Carbon Disulfide          | 4.03  | 76  | 3215    | 0.256    | ug/l # | 75     |
| 18) Methyl Acetate            | 4.04  | 43  | 135310  | 20.548   | ug/l # | 53     |
| 19) Methyl tert-butyl Ether   | 5.02  | 73  | 307125  | 22.034   | ug/l   | 95     |
| 20) Methylene Chloride        | 4.53  | 84  | 1816    | 0.376    | ug/l # | 77     |
| 22) Diisopropyl ether         | 5.92  | 45  | 85720   | 5.457    | ug/l   | 91     |
| 23) Vinyl Acetate             | 5.92  | 43  | 44887   | 3.687    | ug/l # | 74     |
| 25) 2-Butanone                | 6.81  | 43  | 264002  | 72.204   | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.19  | 42  | 9822    | 4.228    | ug/l   | 96     |
| 31) Cyclohexane               | 7.63  | 56  | 24719   | 2.976    | ug/l # | 55     |
| 36) 1,1-Dichloropropene       | 7.64  | 75  | 34044   | 5.405    | ug/l # | 49     |
| 37) Ethyl Acetate             | 6.81  | 43  | 264002  | 37.679   | ug/l # | 69     |
| 38) Carbon Tetrachloride      | 7.64  | 117 | 40076   | 6.393    | ug/l # | 17     |
| 39) Methylcyclohexane         | 9.07  | 83  | 19135   | 2.618    | ug/l   | 93     |
| 40) Benzene                   | 8.02  | 78  | 1570937 | 82.828   | ug/l   | 100    |
| 41) Methacrylonitrile         | 7.19  | 41  | 8124    | 2.666    | ug/l # | 100    |
| 43) Isopropyl Acetate         | 8.12  | 43  | 2632    | 0.236    | ug/l # | 57     |
| 48) Methyl methacrylate       | 9.26  | 41  | 1524    | 0.305    | ug/l # | 42     |
| 51) 4-Methyl-2-Pentanone      | 9.97  | 43  | 232962  | 36.859   | ug/l   | 100    |
| 52) Toluene                   | 10.15 | 92  | 5573136 | 490.259  | ug/l # | 65     |
| 53) 1,1,3-Dichloropropene     | 10.14 | 75  | 81656   | 11.026   | ug/l # | 1      |
| 55) 1,1,2-Trichloroethane     | 10.52 | 97  | 4743    | 1.031    | ug/l # | 18     |
| 56) Ethyl methacrylate        | 10.43 | 69  | 1283    | 2.034    | ug/l # | 25     |
| 58) 2-Chloroethyl Vinyl ether | 9.68  | 63  | 2226    | 0.869    | ug/l # | 50     |
| 59) 2-Hexanone                | 10.74 | 43  | 165173  | 34.048   | ug/l   | 97     |
| 67) Ethyl Benzene             | 11.51 | 91  | 581946  | 28.650   | ug/l   | 99     |
| 68) m/p-Xylenes               | 11.62 | 106 | 467971  | 61.504   | ug/l   | 98     |
| 69) o-Xylene                  | 11.95 | 106 | 1219182 | 165.805  | ug/l   | 95     |
| 70) Styrene                   | 11.95 | 104 | 72735   | 6.290    | ug/l # | 1      |
| 71) Bromoform                 | 12.40 | 173 | 1442    | 0.432    | ug/l # | 1      |
| 73) Isopropylbenzene          | 12.25 | 105 | 15535   | 0.907    | ug/l   | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111319\  
 Data File : VN059212.D  
 Acq On : 13 Nov 2019 16:21  
 Operator : JC/SP  
 Sample : K5814-10  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 30535

Quant Time: Nov 22 04:02:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

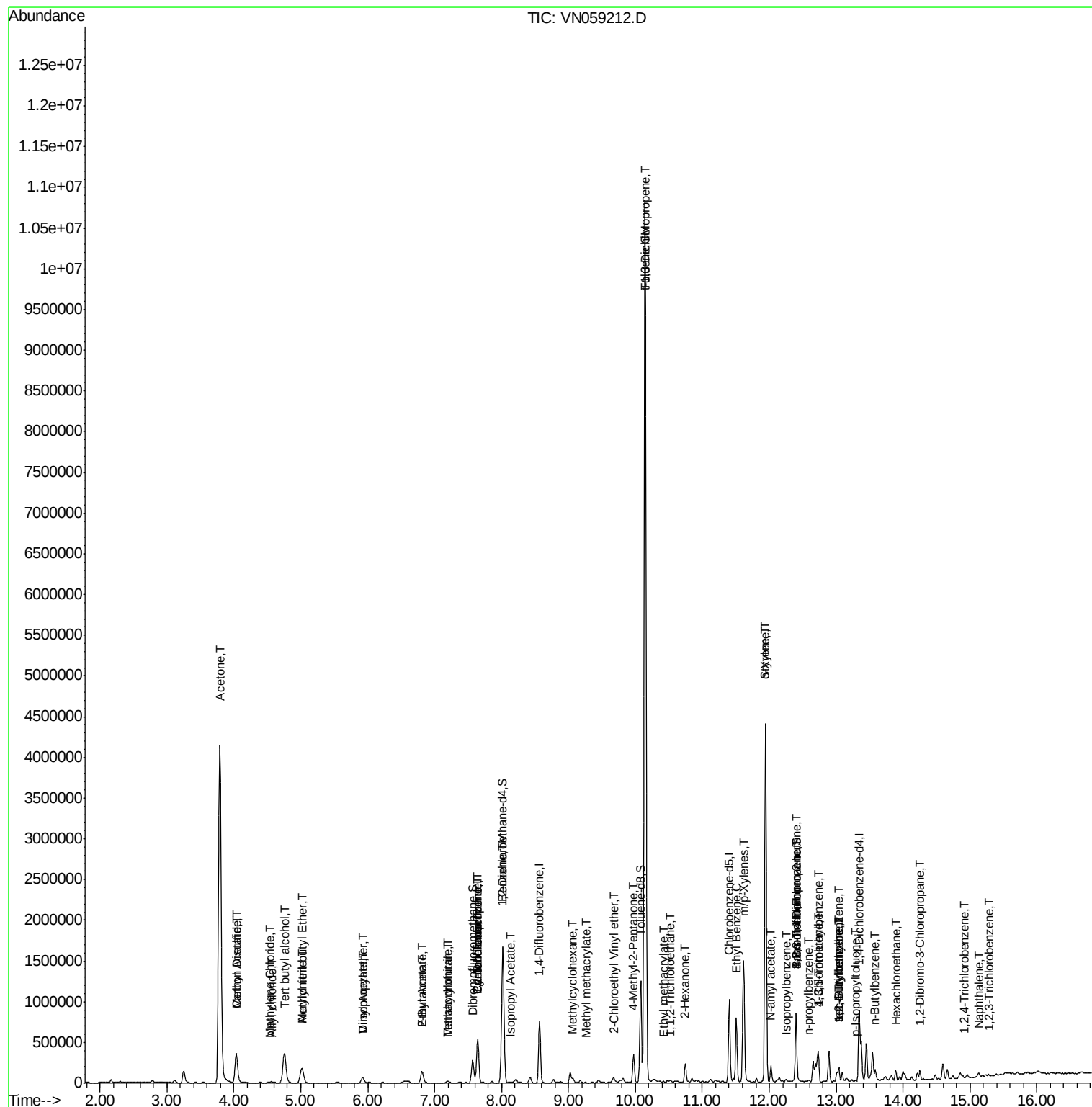
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 74) N-amyl acetate             | 12.03 | 43   | 132367   | 18.237 | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 142069   | 26.500 | ug/l # | 100      |
| 78) n-propylbenzene            | 12.59 | 91   | 20892    | 1.065  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 173571   | 11.959 | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 142069   | 69.995 | ug/l # | 13       |
| 82) 4-Chlorotoluene            | 12.73 | 91   | 18472    | 1.514  | ug/l # | 43       |
| 83) tert-Butylbenzene          | 13.04 | 119  | 11219    | 0.895  | ug/l # | 54       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 94629    | 6.739  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.04 | 105  | 94629    | 5.805  | ug/l # | 57       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 5487     | 0.381  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.58 | 91   | 15759    | 1.251  | ug/l # | 1        |
| 90) Hexachloroethane           | 13.89 | 117  | 6554     | 2.268  | ug/l # | 8        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 676      | 0.607  | ug/l # | 3        |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 496      | 3.152  | ug/l # | 72       |
| 95) Naphthalene                | 15.13 | 128  | 29917    | 5.347  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene     | 15.29 | 180  | 1262     | 0.311  | ug/l # | 51       |
| -----                          |       |      |          |        |        |          |

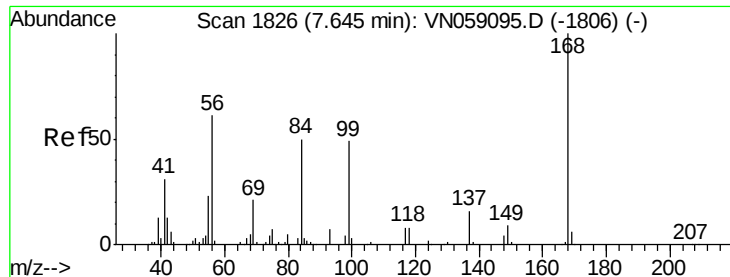
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN111319\  
Data File : VN059212.D  
Acq On : 13 Nov 2019 16:21  
Operator : JC/SP  
Sample : K5814-10  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
30535

Quant Time: Nov 22 04:02:42 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 07 04:00:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :

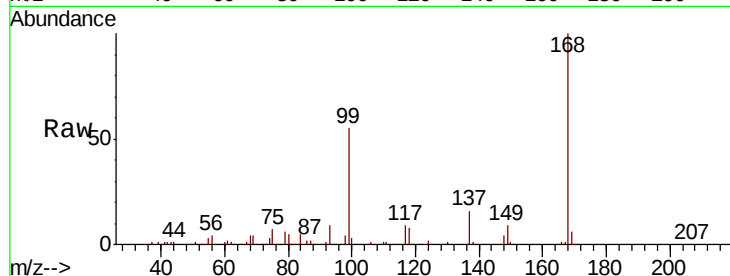
30535

Tot Ion:168 Resp: 433998

Ion Ratio Lower Upper

168 100

99 54.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

200000

150000

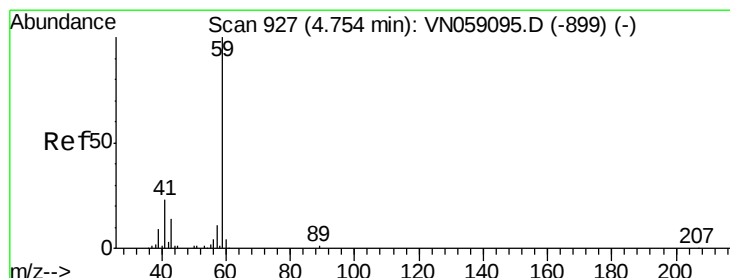
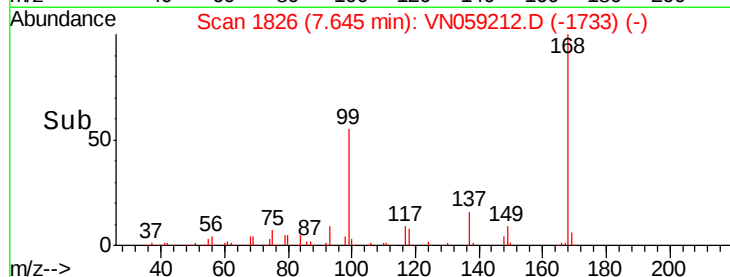
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 702.188 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN059212.D

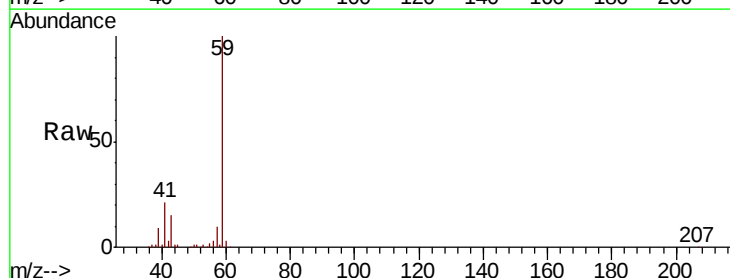
Acq: 13 Nov 2019 16:21

Tgt Ion: 59 Resp: 713933

Ion Ratio Lower Upper

59 100

57 10.3 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

200000

150000

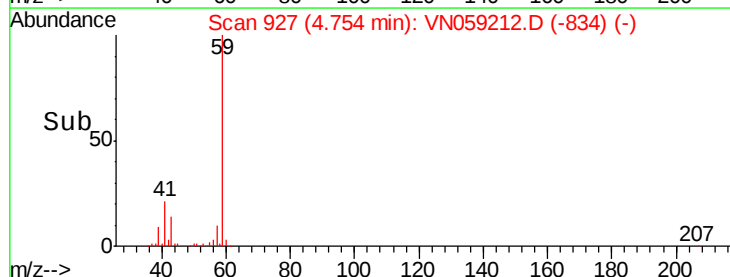
100000

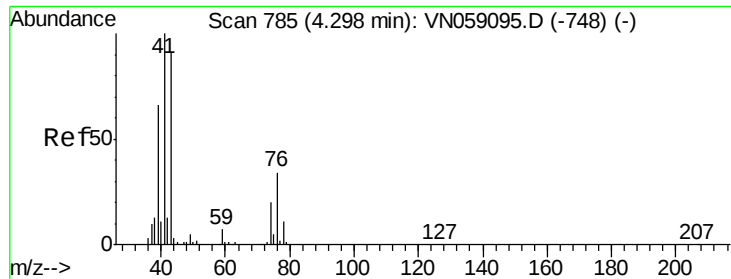
50000

0

4.60 4.70 4.80 4.90

Time-->

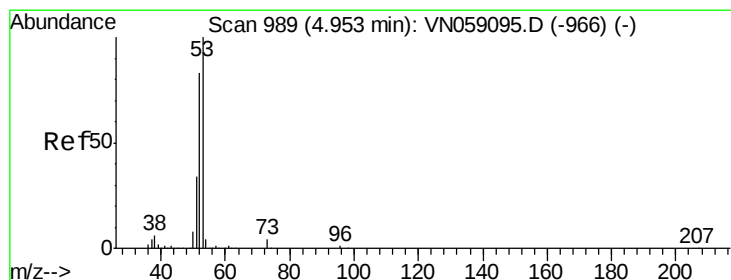
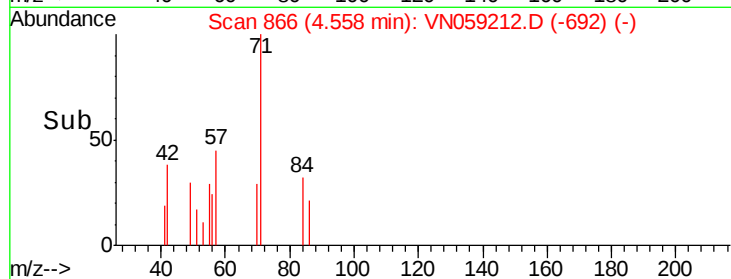
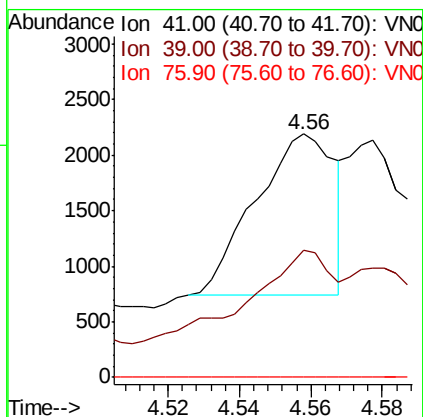
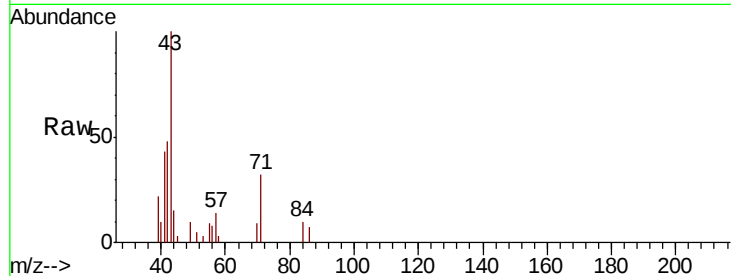




#14  
 Allvl chloride  
 Concen: 0.267 ug/l  
 RT: 4.56 min Scan# 866  
 Delta R.T. 0.26 min  
 Lab File: VN059212.D  
 Acq: 13 Nov 2019 16:21

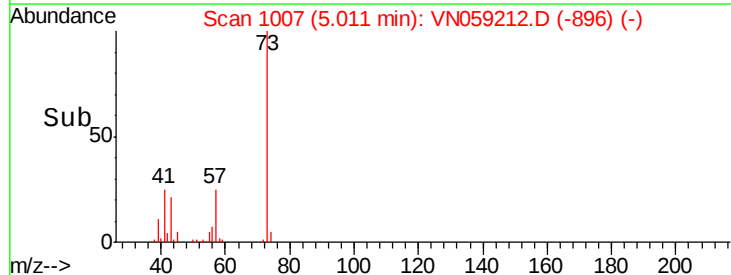
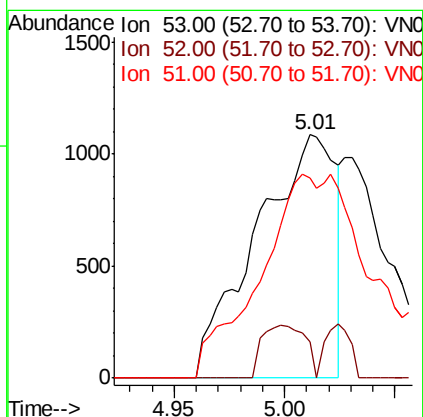
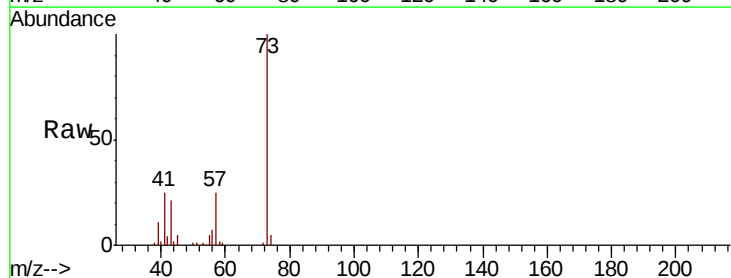
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 30535

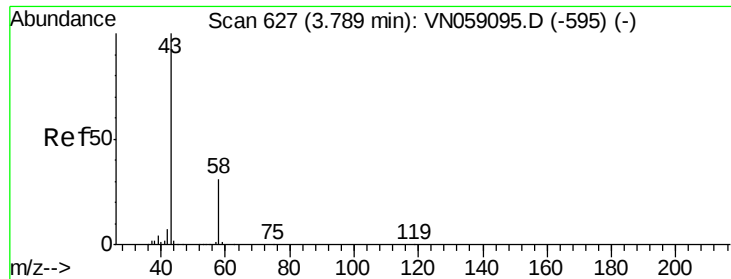
Tot Ion: 41 Resp: 2219  
 Ion Ratio Lower Upper  
 41 100  
 39 57.9 49.1 73.7  
 76 0.0 24.9 37.3#



#15  
 Acrylonitrile  
 Concen: 1.064 ug/l  
 RT: 5.01 min Scan# 1007  
 Delta R.T. 0.06 min  
 Lab File: VN059212.D  
 Acq: 13 Nov 2019 16:21

Tgt Ion: 53 Resp: 2692  
 Ion Ratio Lower Upper  
 53 100  
 52 11.8 65.0 97.6#  
 51 61.1 28.0 42.0#





#16

Acetone

Concen: 2529.542 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :

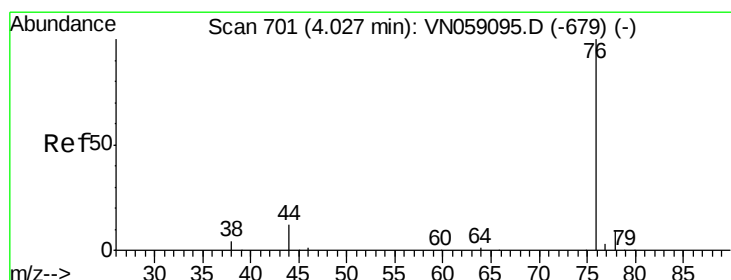
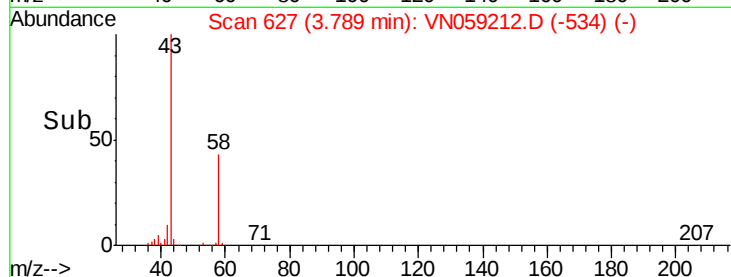
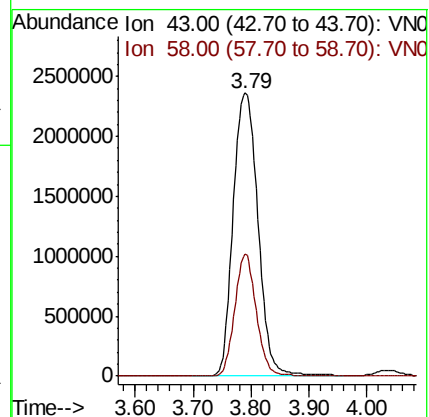
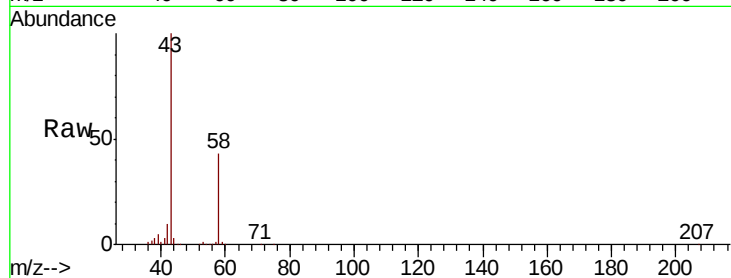
30535

Tot Ion: 43 Resp: 7017657

Ion Ratio Lower Upper

43 100

58 43.2 24.9 37.3#



#17

Carbon Disulfide

Concen: 0.256 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN059212.D

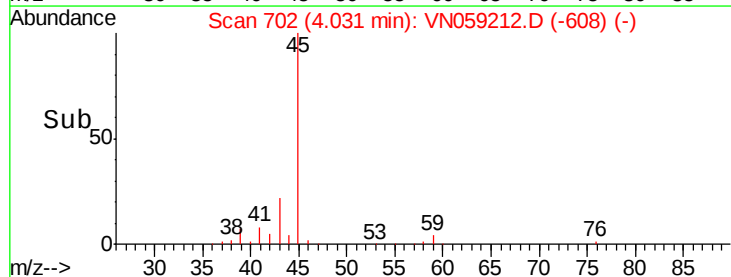
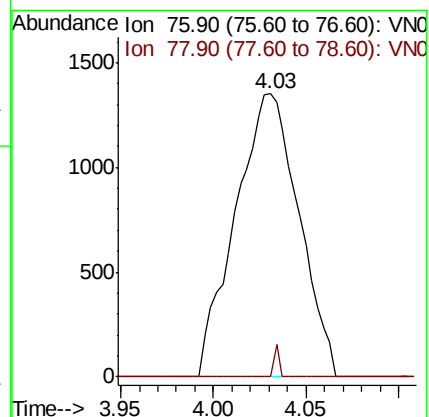
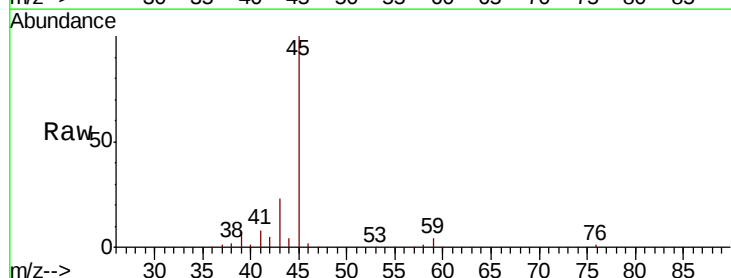
Acq: 13 Nov 2019 16:21

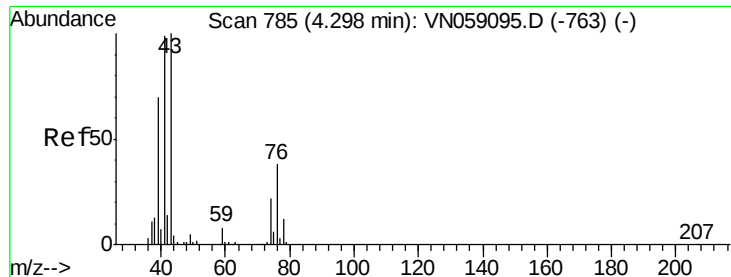
Tgt Ion: 76 Resp: 3215

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#

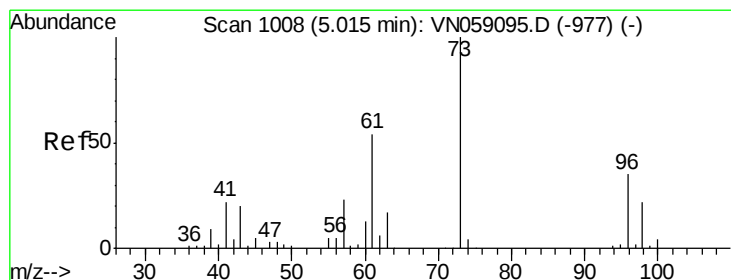
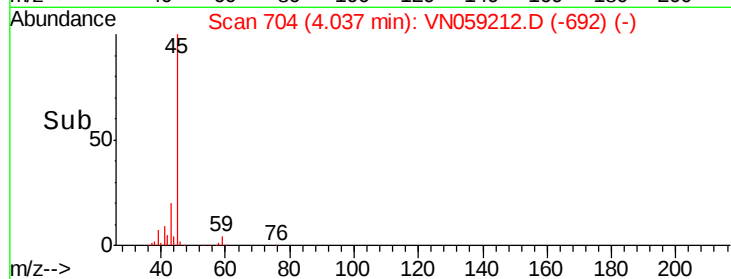
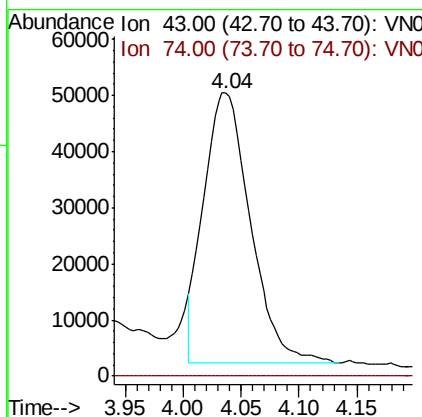
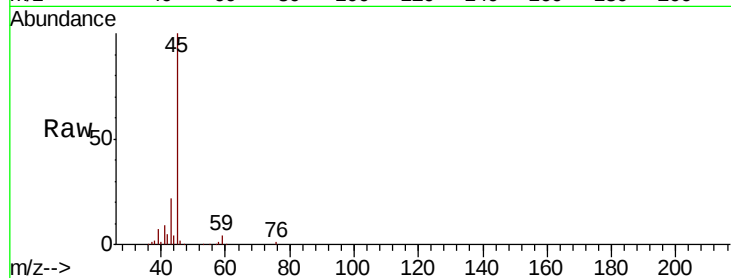




#18  
Methyl Acetate  
Concen: 20.548 ug/l  
RT: 4.04 min Scan# 704  
Delta R.T. -0.26 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

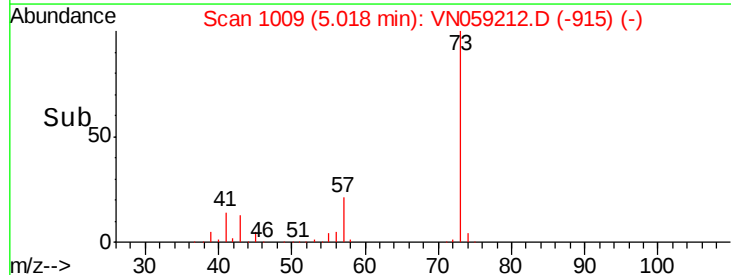
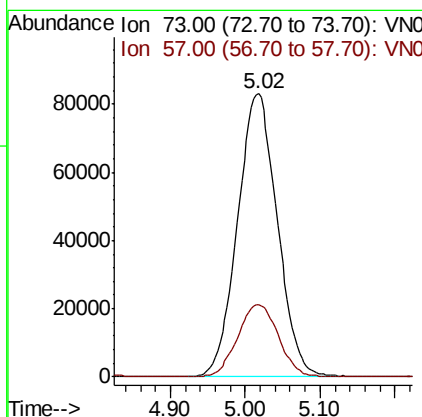
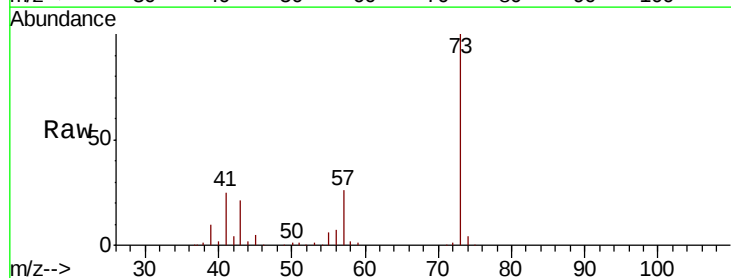
Instrument :  
MSVOA\_N  
ClientSampleId :  
30535

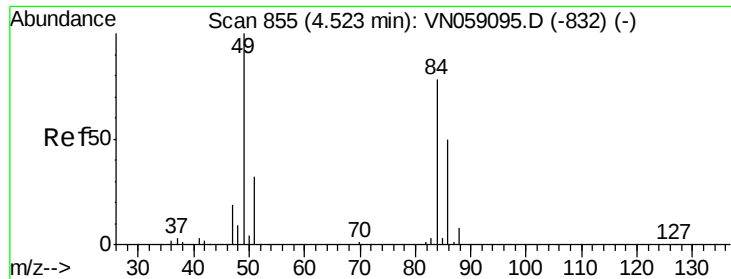
Tot Ion: 43 Resp: 135310  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.8 26.8#



#19  
Methyl tert-butyl Ether  
Concen: 22.034 ug/l  
RT: 5.02 min Scan# 1009  
Delta R.T. 0.00 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

Tgt Ion: 73 Resp: 307125  
Ion Ratio Lower Upper  
73 100  
57 25.6 18.4 27.6

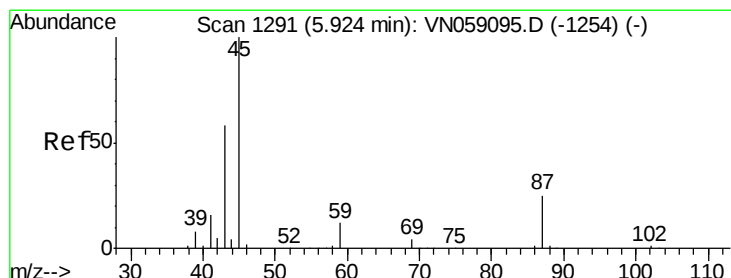
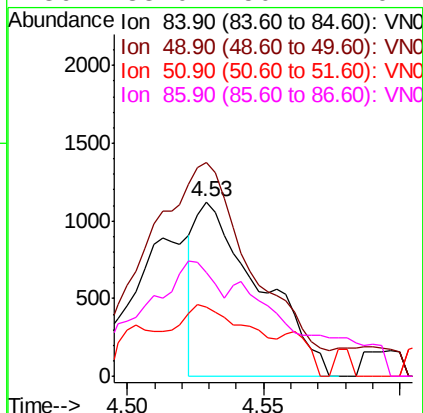
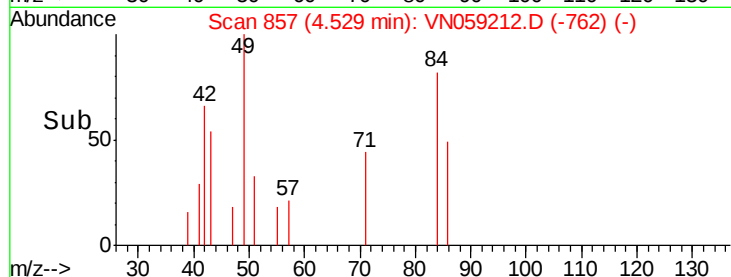
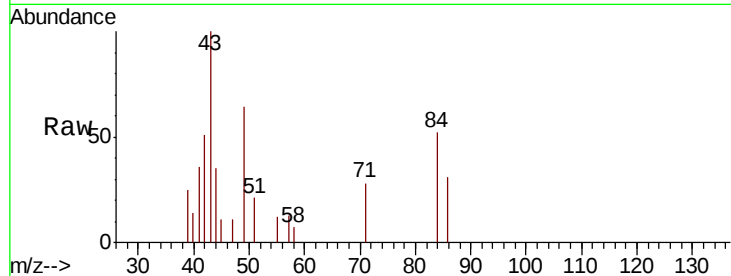




#20  
Methylene Chloride  
Concen: 0.376 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. 0.01 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

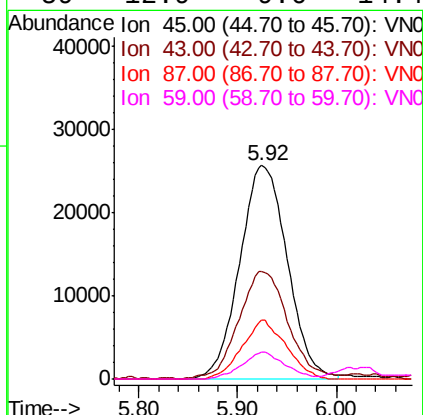
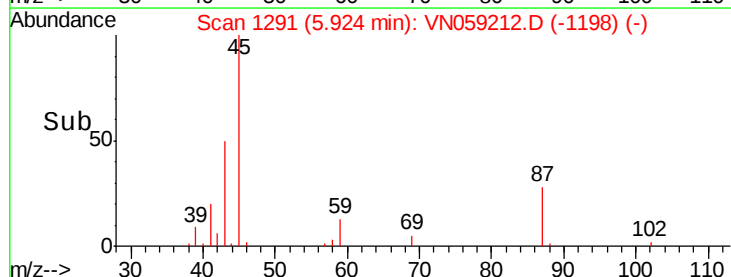
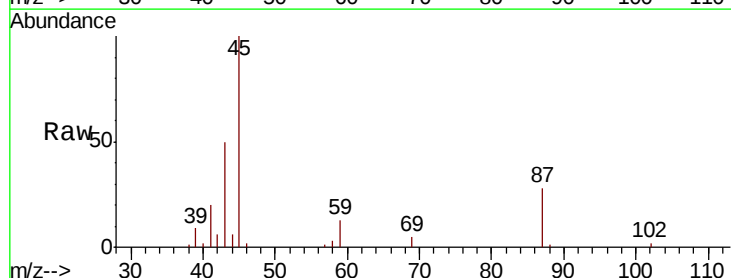
Instrument :  
MSVOA\_N  
ClientSampleId :  
30535

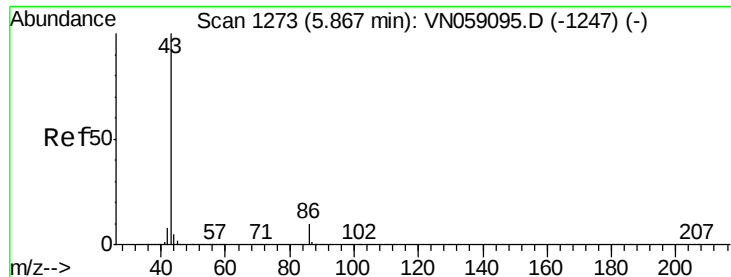
Tot Ion: 84 Resp: 1816  
Ion Ratio Lower Upper  
84 100  
49 106.4 102.0 153.0  
51 24.4 32.2 48.2#  
86 38.0 50.7 76.1#



#22  
Diisopropyl ether  
Concen: 5.457 ug/l  
RT: 5.92 min Scan# 1291  
Delta R.T. -0.00 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

Tgt Ion: 45 Resp: 85720  
Ion Ratio Lower Upper  
45 100  
43 49.6 46.7 70.1  
87 27.6 20.5 30.7  
59 12.9 9.6 14.4





#23

Vinyl Acetate

Concen: 3.687 ug/l

RT: 5.92 min Scan# 1291

Delta R.T. 0.06 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :

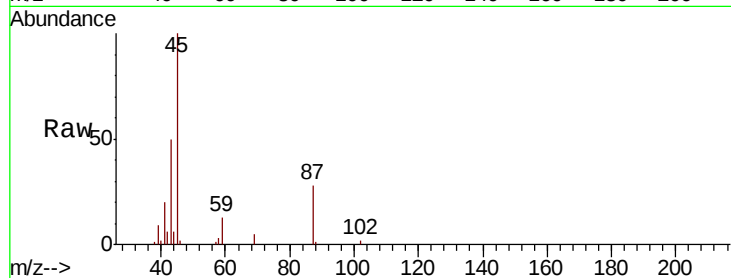
30535

Tot Ion: 43 Resp: 44887

Ion Ratio Lower Upper

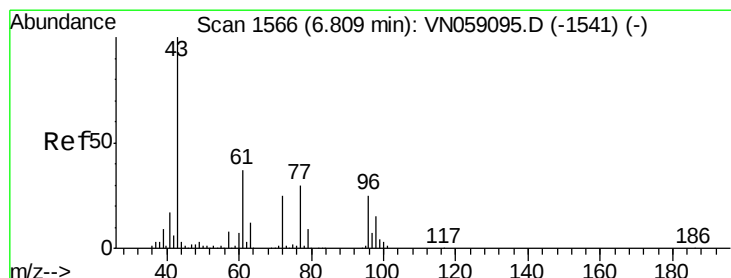
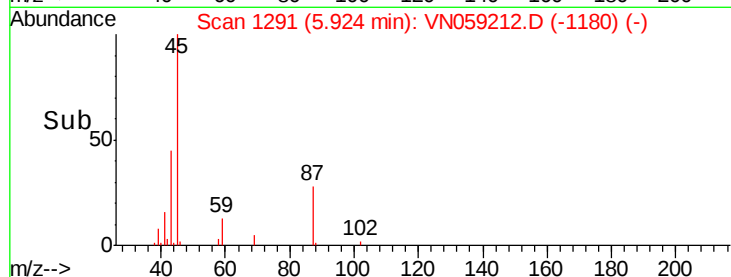
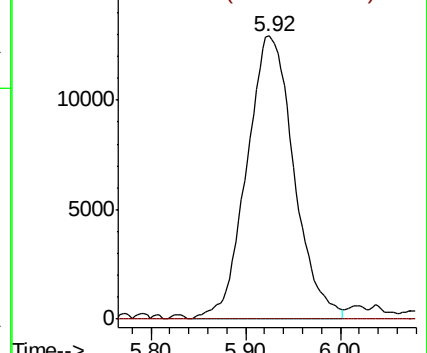
43 100

86 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#25

2-Butanone

Concen: 72.204 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059212.D

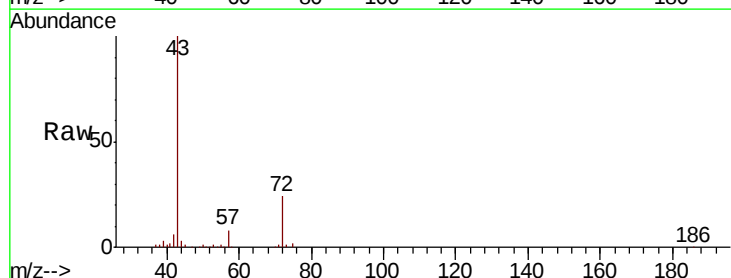
Acq: 13 Nov 2019 16:21

Tgt Ion: 43 Resp: 264002

Ion Ratio Lower Upper

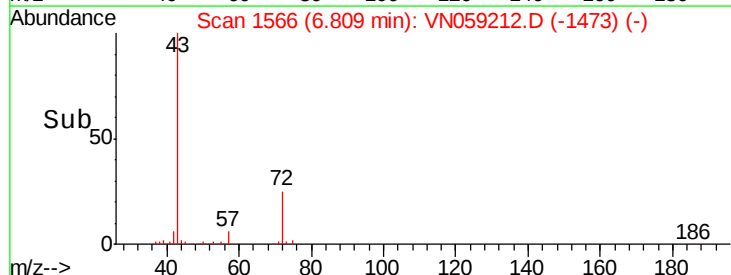
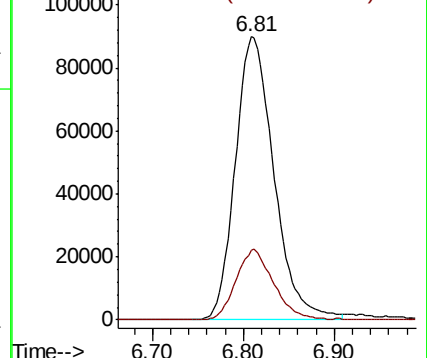
43 100

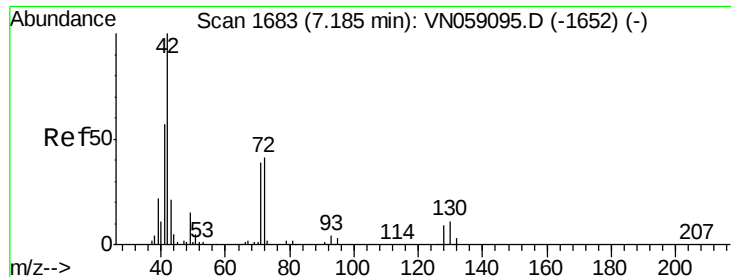
72 24.4 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 4.228 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

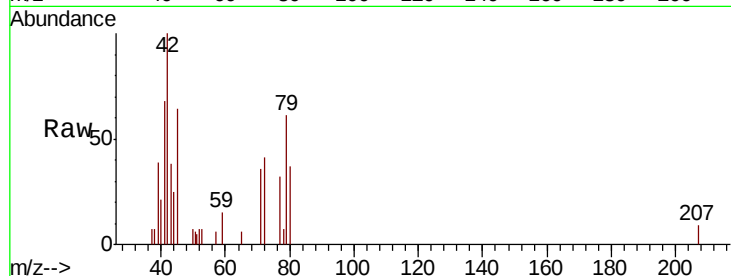
Tot Ion: 42 Resp: 9822

Ion Ratio Lower Upper

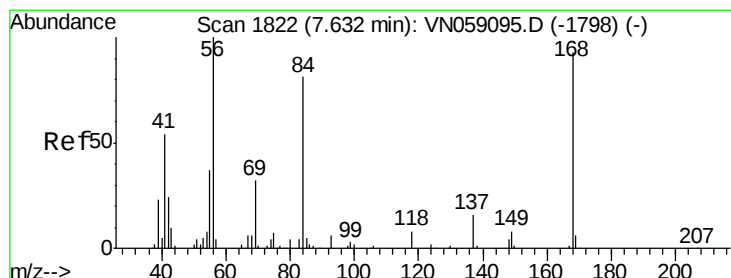
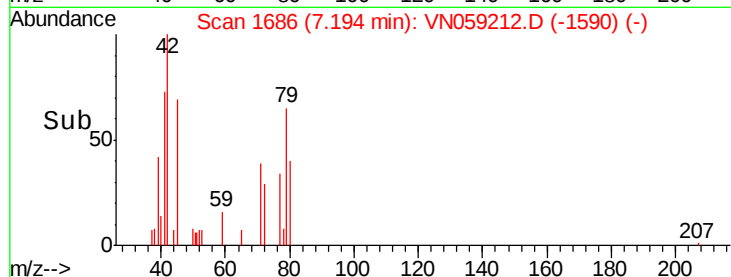
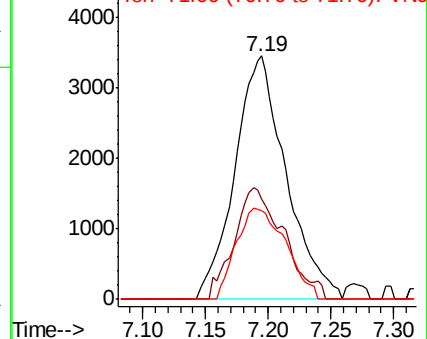
42 100

72 44.0 33.1 49.7

71 35.9 30.9 46.3



Abundance Ion 42.00 (41.70 to 42.70): VNO  
Ion 72.00 (71.70 to 72.70): VNO  
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 2.976 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

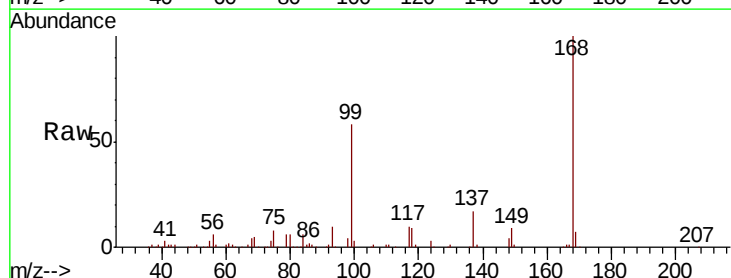
Tgt Ion: 56 Resp: 24719

Ion Ratio Lower Upper

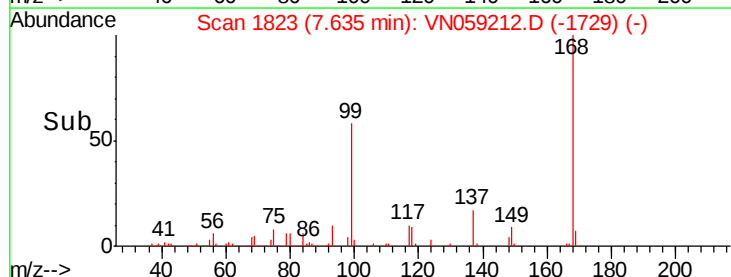
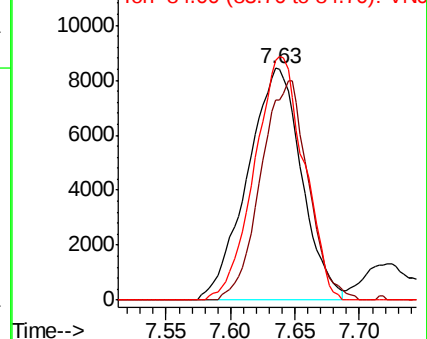
56 100

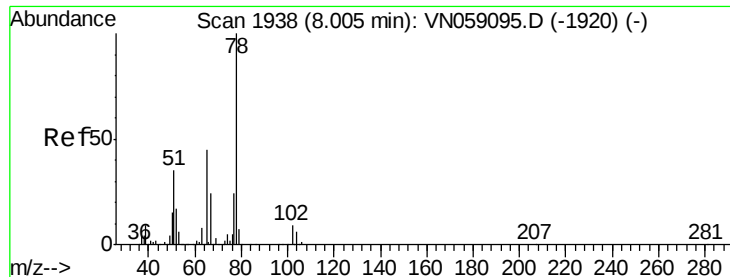
69 86.3 25.8 38.8#

84 103.5 65.0 97.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 84.00 (83.70 to 84.70): VNO

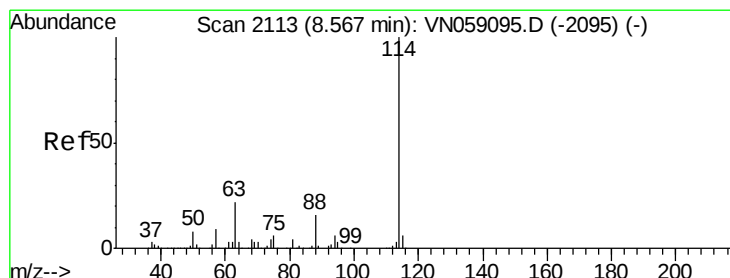
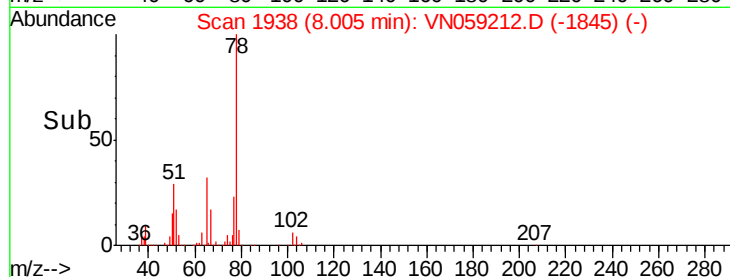
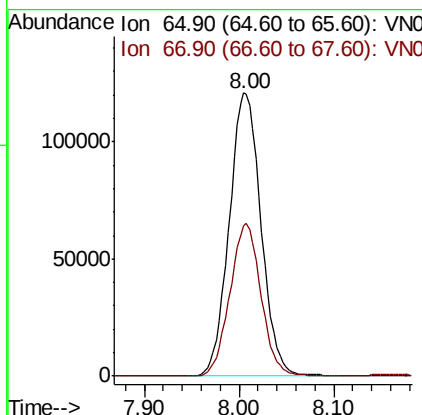
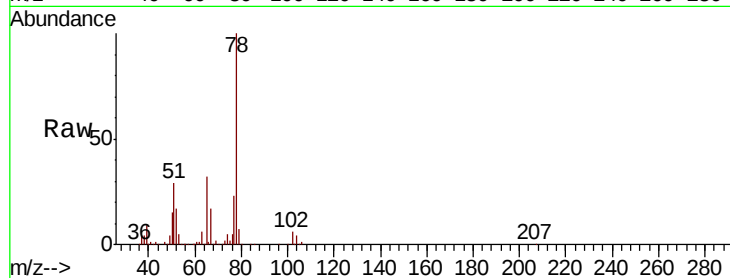




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.894 ug/l  
 RT: 8.00 min Scan# 1938  
 Delta R.T. -0.00 min  
 Lab File: VN059212.D  
 Acq: 13 Nov 2019 16:21

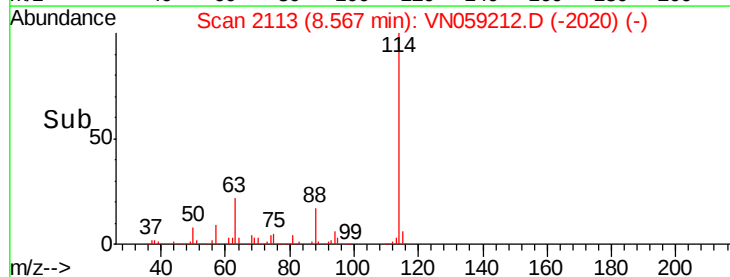
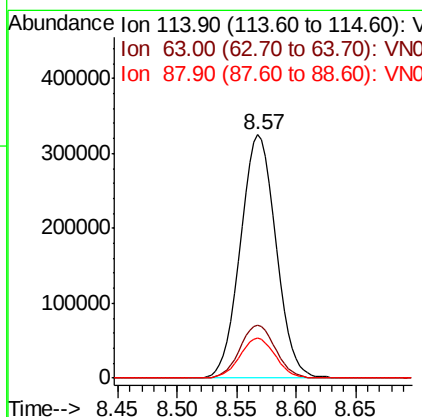
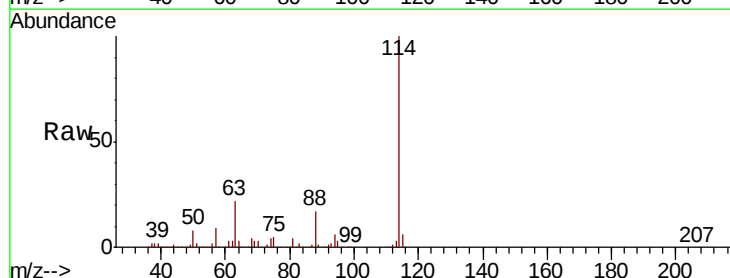
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 30535

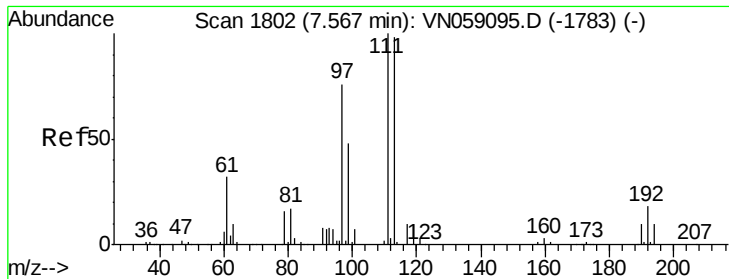
Tot Ion: 65 Resp: 282189  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 107.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN059212.D  
 Acq: 13 Nov 2019 16:21

Tgt Ion: 114 Resp: 673816  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 43.4  
 88 16.6 0.0 32.2





#35

Dibromofluoromethane

Concen: 54.247 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

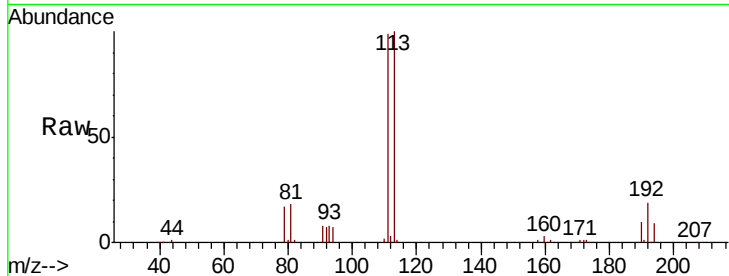
Tot Ion:113 Resp: 218255

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

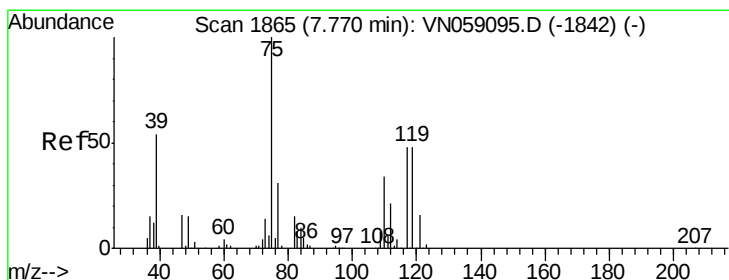
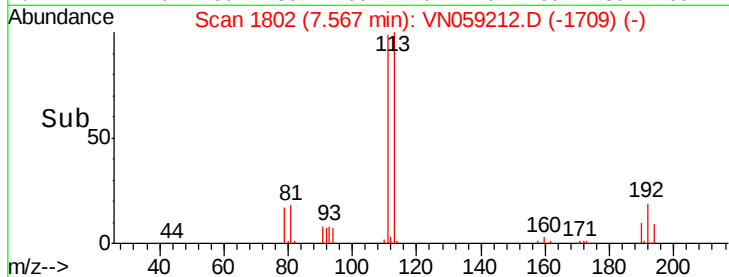
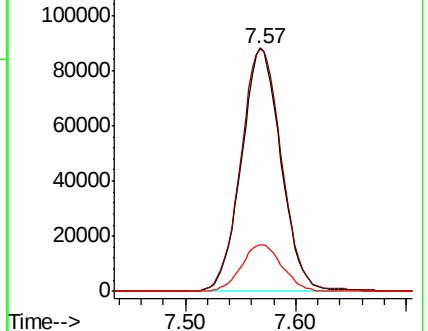
192 19.9 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.405 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

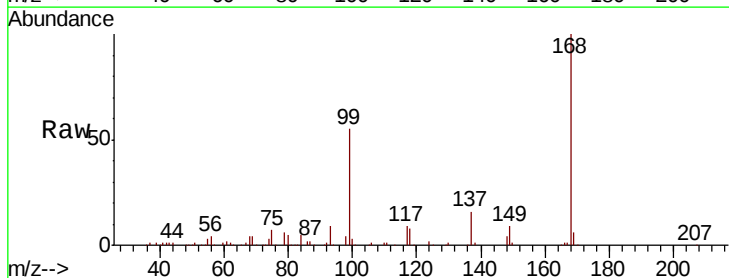
Tgt Ion: 75 Resp: 34044

Ion Ratio Lower Upper

75 100

110 7.8 17.1 51.2#

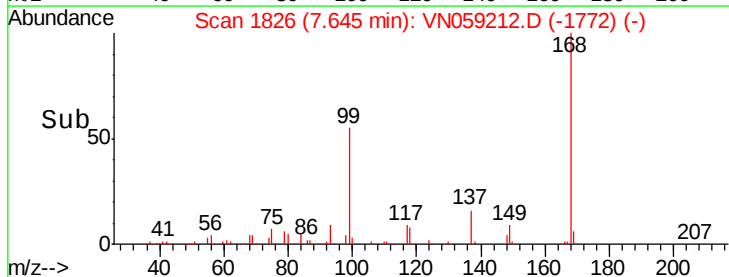
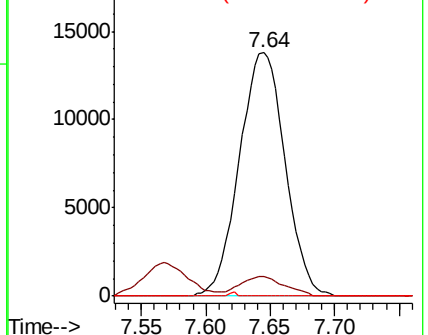
77 0.0 24.8 37.2#

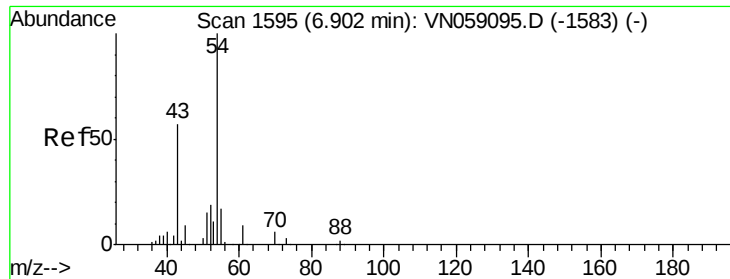


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 37.679 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

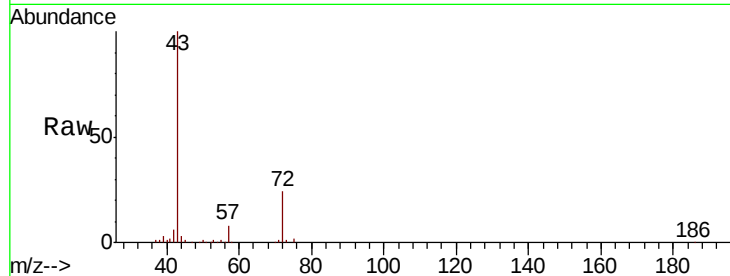
Tot Ion: 43 Resp: 264002

Ion Ratio Lower Upper

43 100

61 0.0 11.2 16.8#

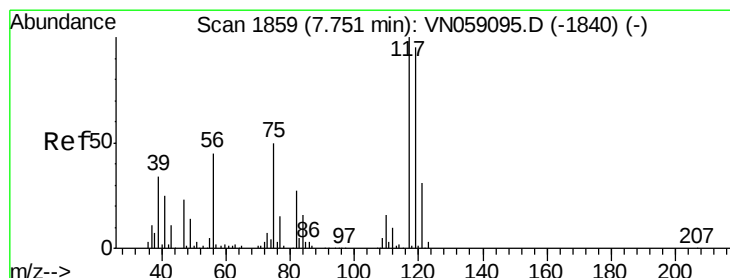
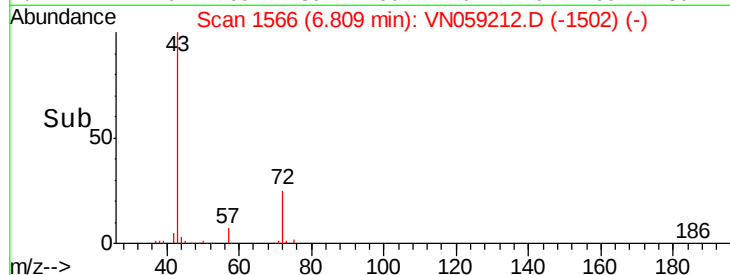
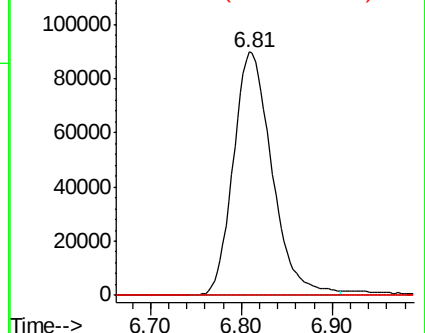
70 0.1 7.8 11.8#



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-1583) (-)

Ion 60.90 (60.60 to 61.60): VN059095.D (-1583) (-)

Ion 70.00 (69.70 to 70.70): VN059095.D (-1583) (-)



#38

Carbon Tetrachloride

Concen: 6.393 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

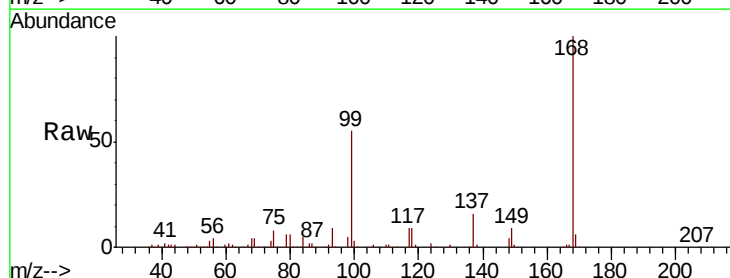
Tgt Ion: 117 Resp: 40076

Ion Ratio Lower Upper

117 100

119 5.9 75.6 113.4#

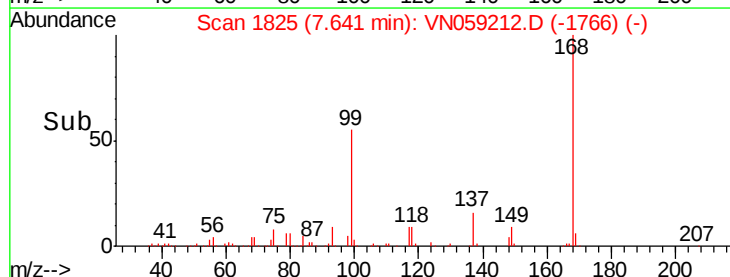
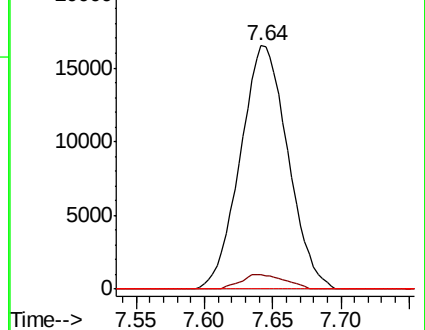
121 0.0 24.6 36.8#

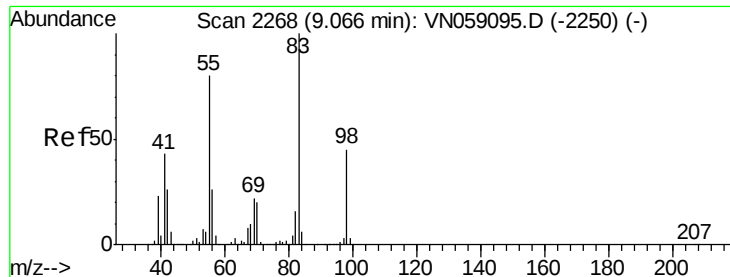


Abundance Ion 116.80 (116.50 to 117.50): VN059095.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN059095.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN059095.D (-1840) (-)

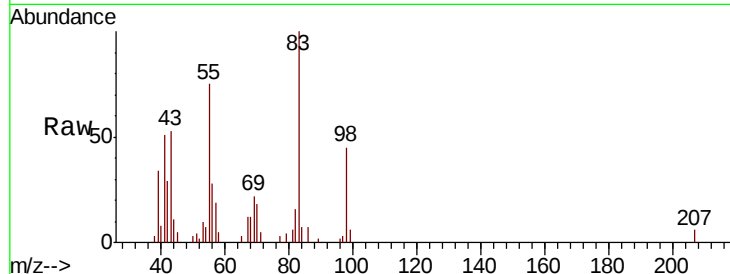




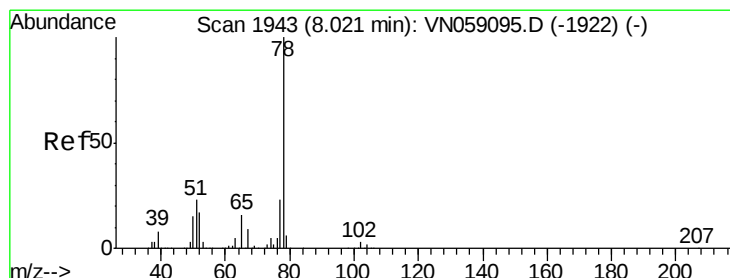
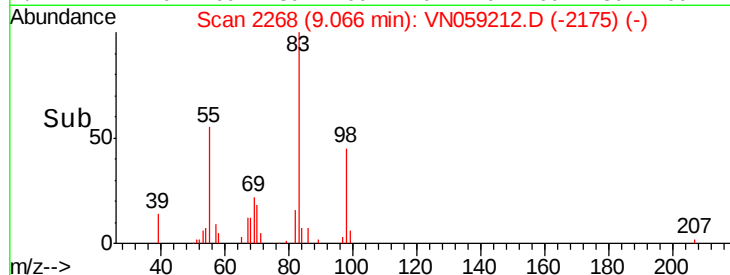
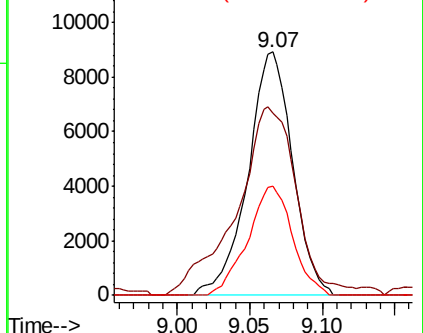
#39  
Methvlcvclohexane  
Concen: 2.618 ug/l  
RT: 9.07 min Scan# 2268  
Delta R.T. -0.00 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
30535

Tot Ion: 83 Resp: 19135  
Ion Ratio Lower Upper  
83 100  
55 70.8 63.9 95.9  
98 44.8 35.6 53.4

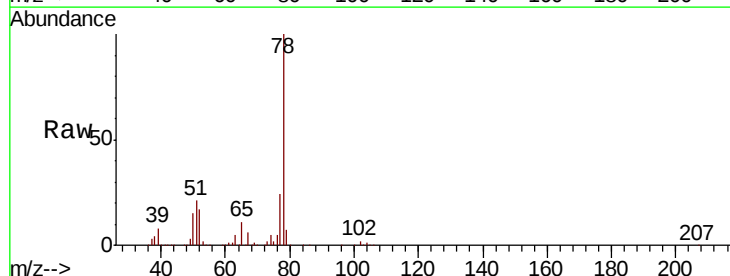


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

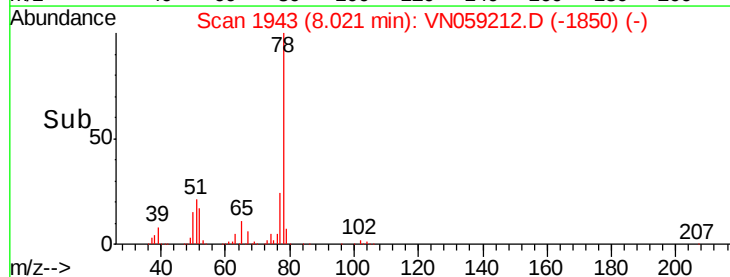
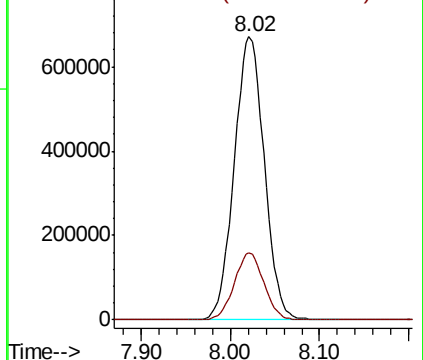


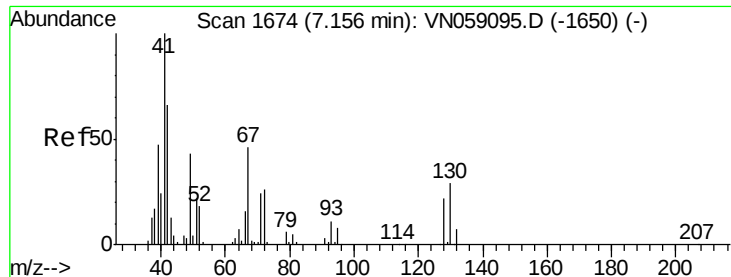
#40  
Benzene  
Concen: 82.828 ug/l  
RT: 8.02 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

Tgt Ion: 78 Resp: 1570937  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0  
Ion 77.00 (76.70 to 77.70): VN0

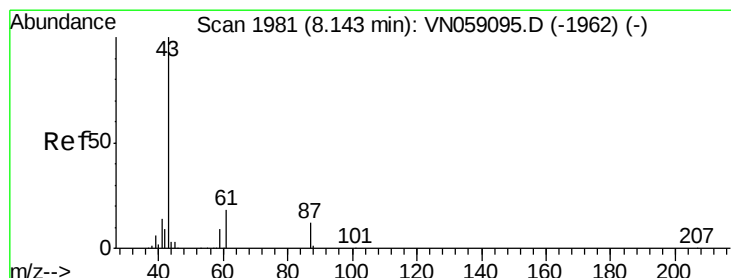
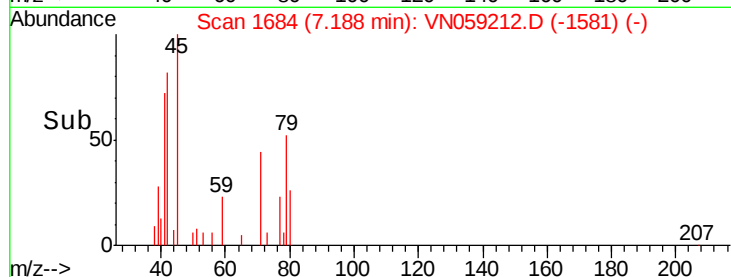
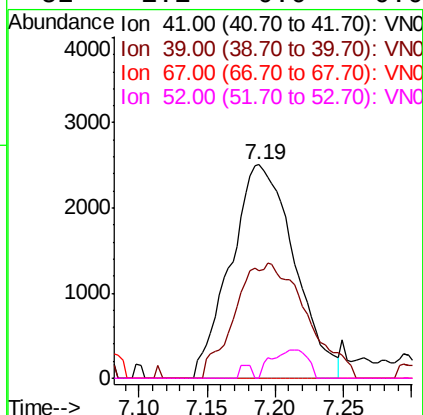
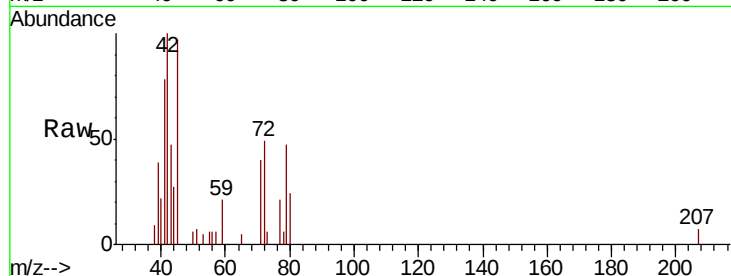




#41  
Methacrylonitrile  
Concen: 2.666 ug/l  
RT: 7.19 min Scan# 1684  
Delta R.T. 0.03 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

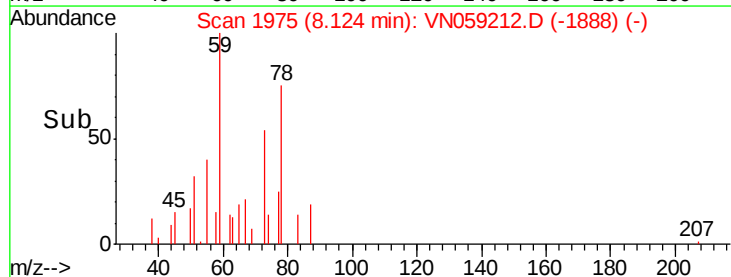
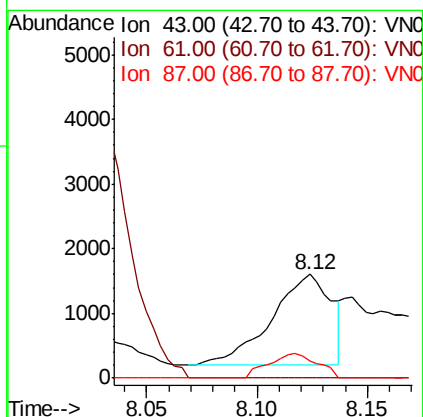
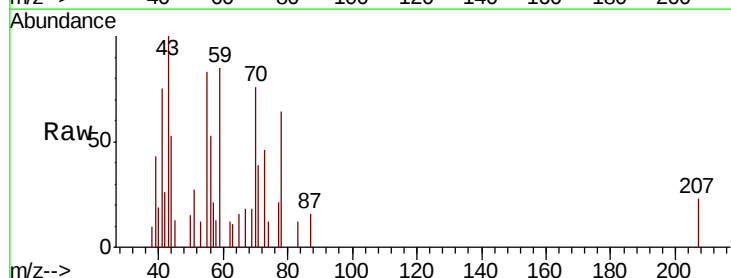
Instrument :  
MSVOA\_N  
ClientSampleId :  
30535

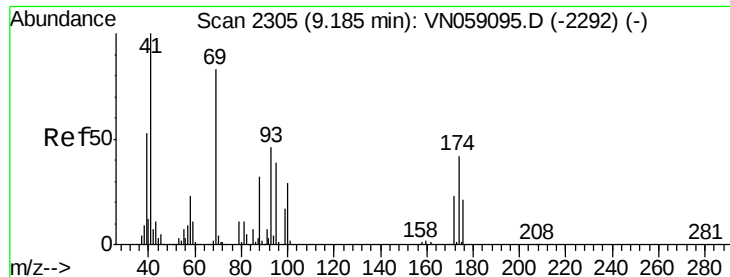
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 8124  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 60.4  | 0.0   | 0.0#  |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 1.1   | 0.0   | 0.0#  |



#43  
Isopropyl Acetate  
Concen: 0.236 ug/l  
RT: 8.12 min Scan# 1975  
Delta R.T. -0.02 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2632  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 21.0  | 31.6# |
| 87       | 22.5  | 9.8   | 14.6# |





#48

Methvl methacrylate

Concen: 0.305 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.07 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :

30535

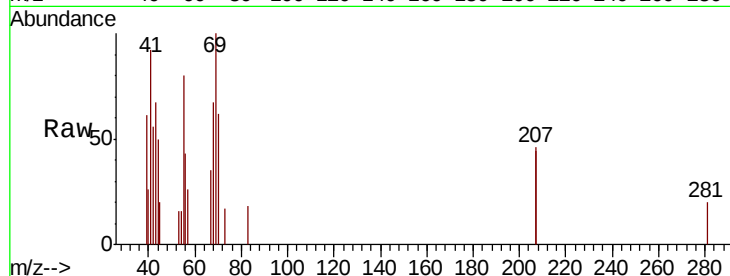
Tot Ion: 41 Resp: 1524

Ion Ratio Lower Upper

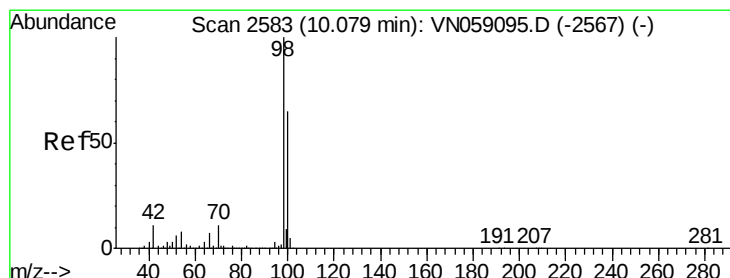
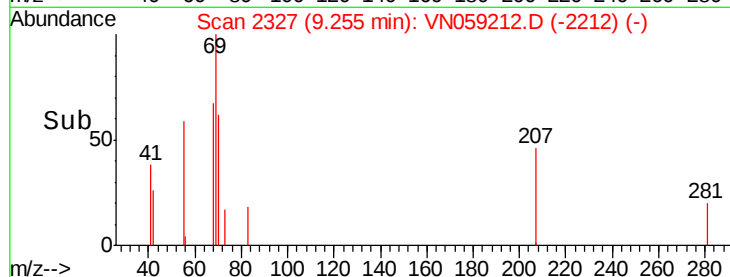
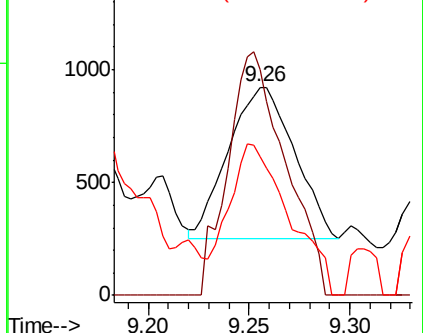
41 100

69 140.2 67.3 100.9#

39 92.1 43.3 64.9#



Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 54.933 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059212.D

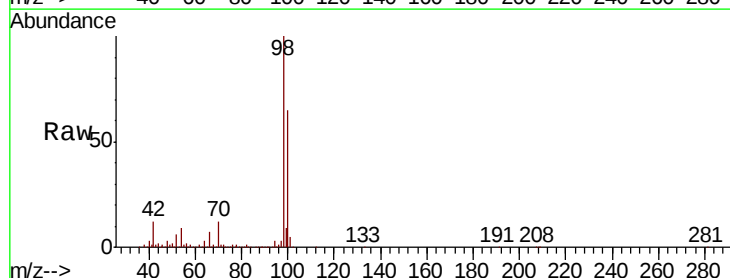
Acq: 13 Nov 2019 16:21

Tgt Ion: 98 Resp: 870560

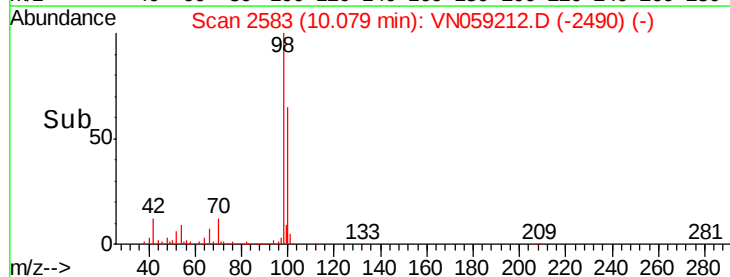
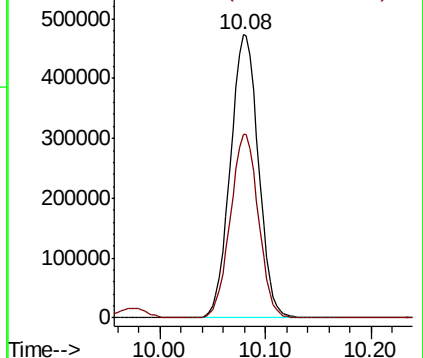
Ion Ratio Lower Upper

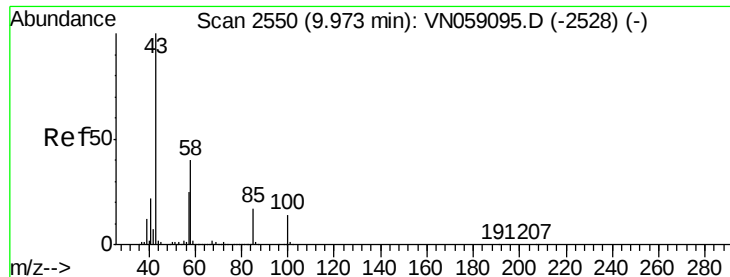
98 100

100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 36.859 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

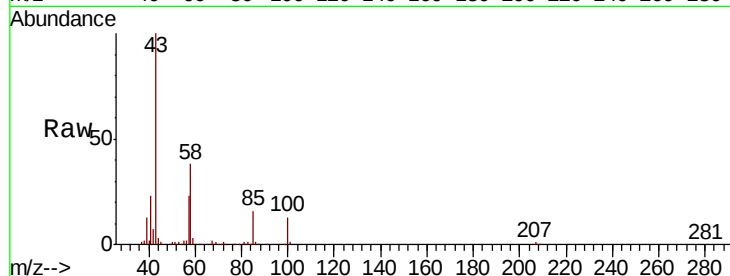
30535

Tot Ion: 43 Resp: 232962

Ion Ratio Lower Upper

43 100

58 39.2 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN059095.D (-2528) (-)

9.97

150000

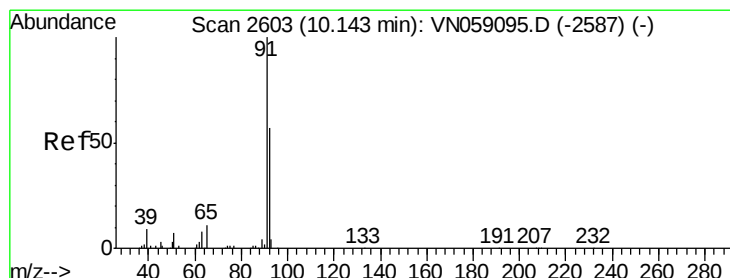
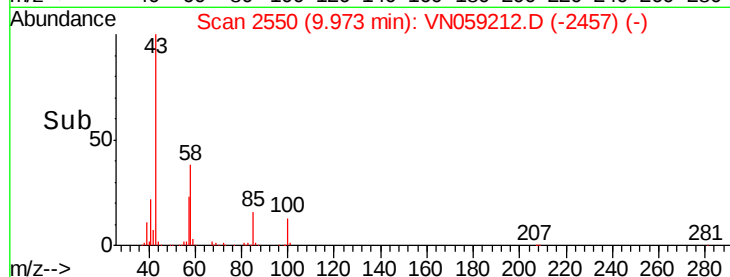
100000

50000

0

9.90 9.95 10.00 10.05

Time-->



#52

Toluene

Concen: 490.259 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059212.D

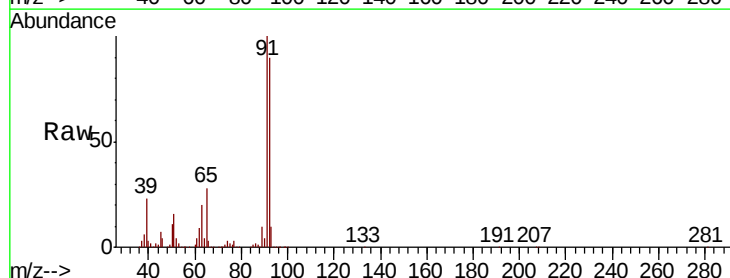
Acq: 13 Nov 2019 16:21

Tgt Ion: 92 Resp: 5573136

Ion Ratio Lower Upper

92 100

91 126.1 139.5 209.3#



Abundance Ion 92.00 (91.70 to 92.70): VN059095.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN059095.D (-2587) (-)

10.15

3000000

2500000

2000000

1500000

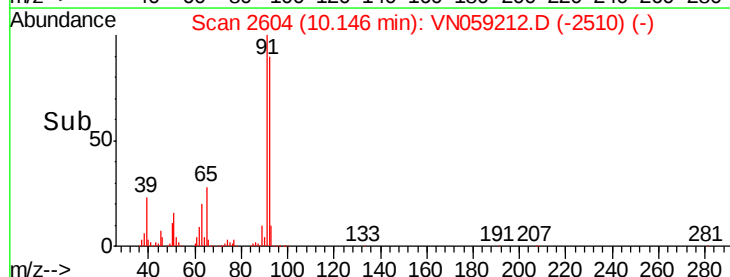
1000000

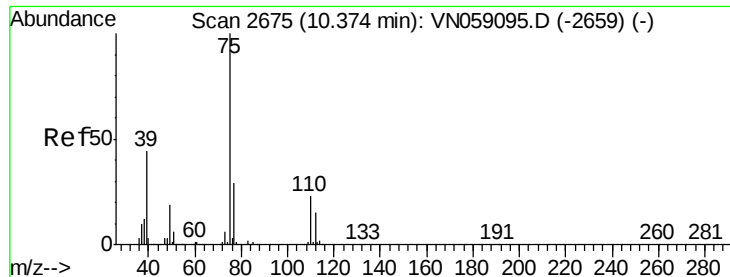
500000

0

10.00 10.20 10.40

Time-->





#53

t-1,3-Dichloropropene

Concen: 11.026 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.23 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :

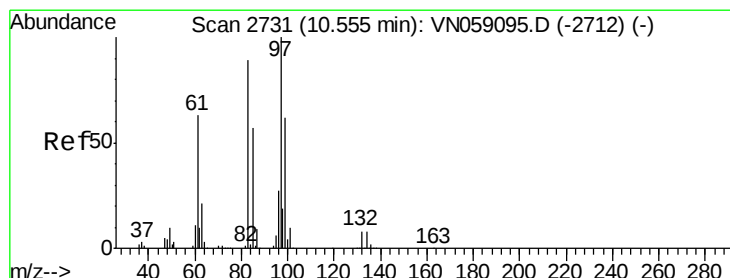
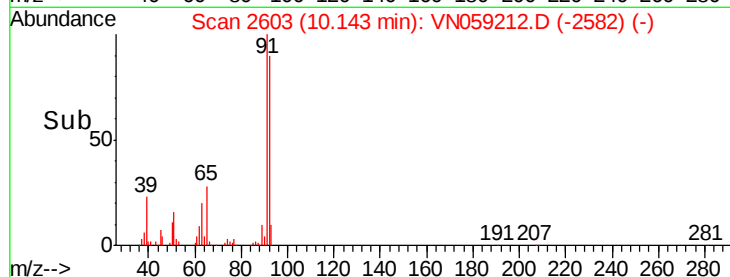
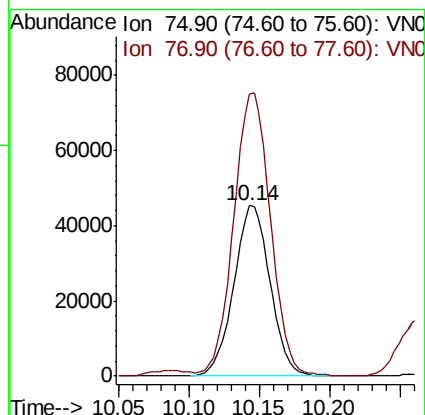
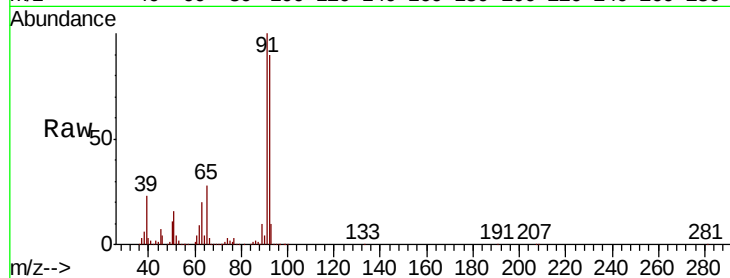
30535

Tot Ion: 75 Resp: 81656

Ion Ratio Lower Upper

75 100

77 165.3 25.3 37.9#



#55

1,1,2-Trichloroethane

Concen: 1.031 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. -0.04 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Tgt Ion: 97 Resp: 4743

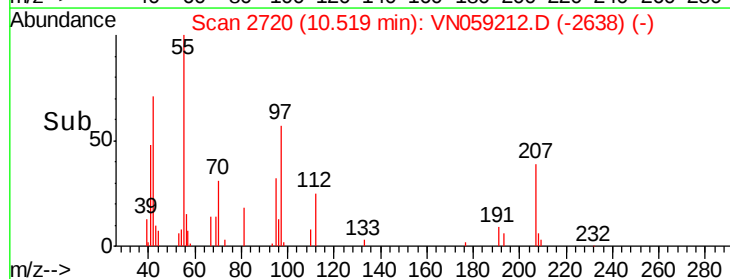
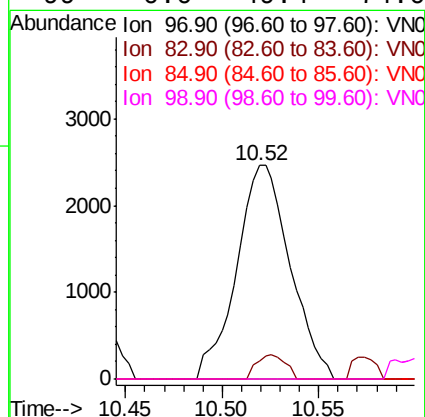
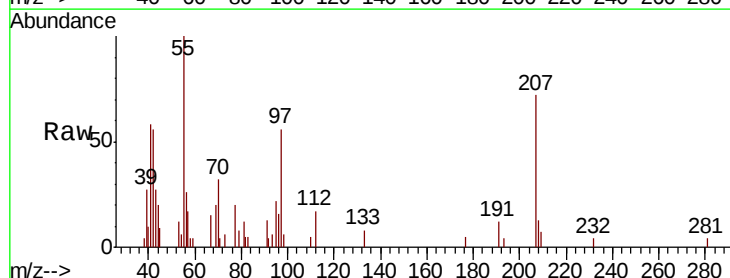
Ion Ratio Lower Upper

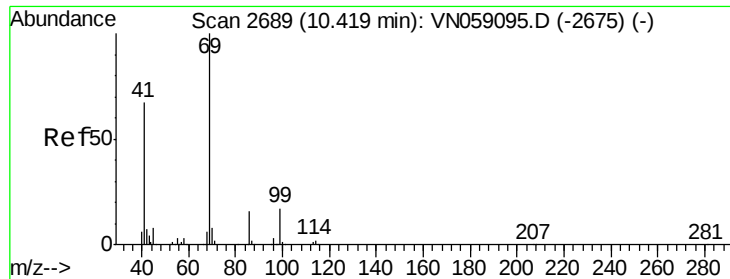
97 100

83 8.4 71.0 106.4#

85 0.0 45.8 68.8#

99 0.0 49.4 74.0#





#56

Ethyl methacrylate

Concen: 2.034 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.01 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :  
30535

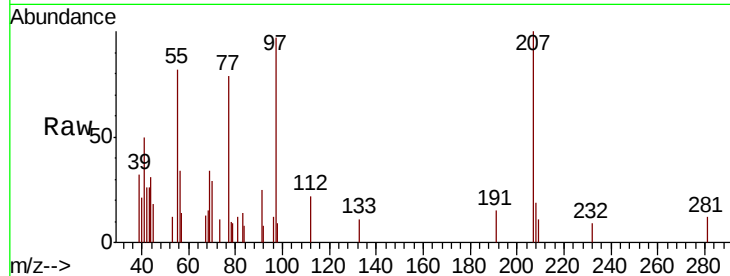
Tot Ion: 69 Resp: 1283

Ion Ratio Lower Upper

69 100

41 0.0 53.6 80.4#

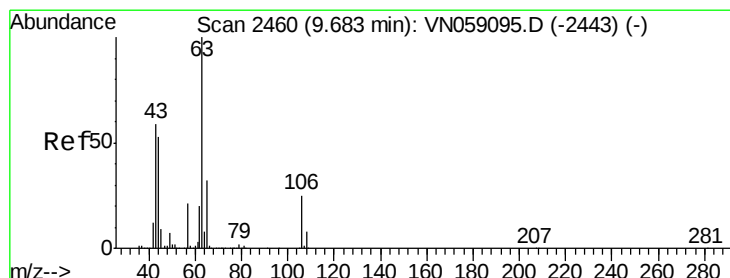
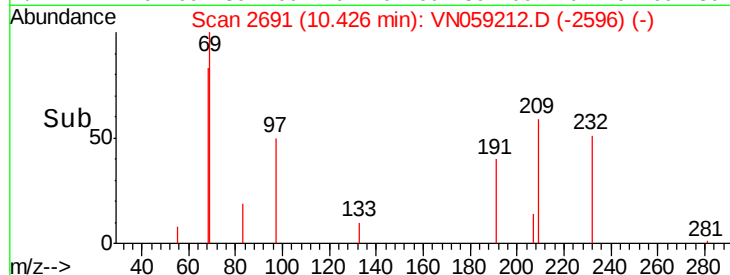
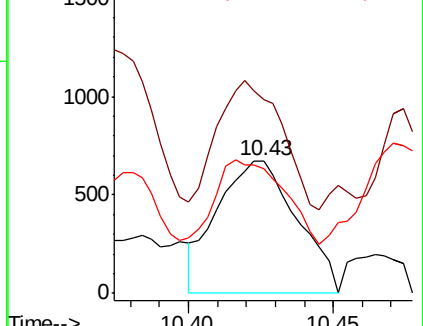
39 0.0 26.2 39.4#



Abundance Ion 69.00 (68.70 to 69.70): VN059212.D (-2675) (-)

Ion 41.00 (40.70 to 41.70): VN059212.D (-2675) (-)

Ion 39.00 (38.70 to 39.70): VN059212.D (-2675) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 0.869 ug/l

RT: 9.68 min Scan# 2458

Delta R.T. -0.01 min

Lab File: VN059212.D

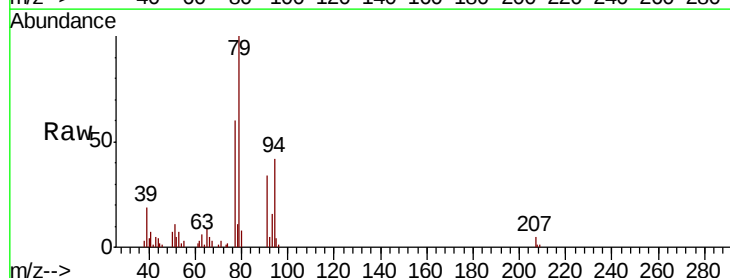
Acq: 13 Nov 2019 16:21

Tgt Ion: 63 Resp: 2226

Ion Ratio Lower Upper

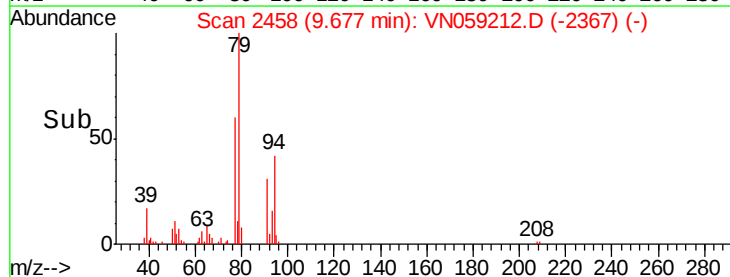
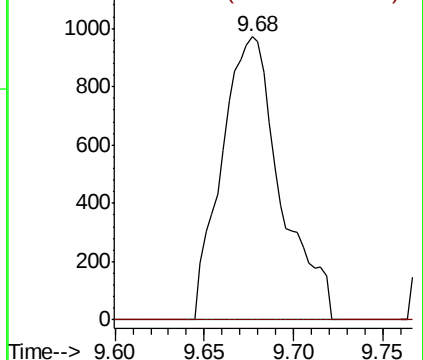
63 100

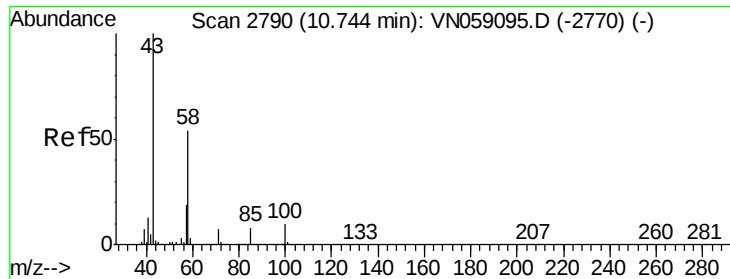
106 0.0 20.2 30.2#



Abundance Ion 62.90 (62.60 to 63.60): VN059212.D (-2367) (-)

Ion 105.90 (105.60 to 106.60): VN059212.D (-2367) (-)

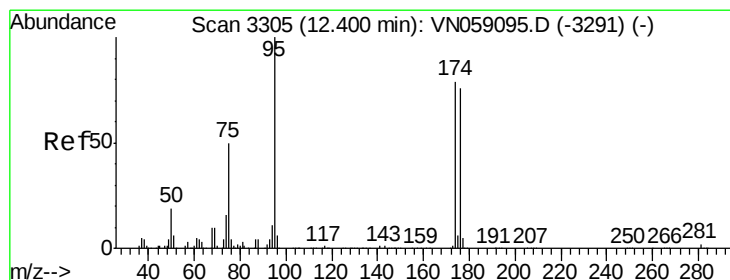
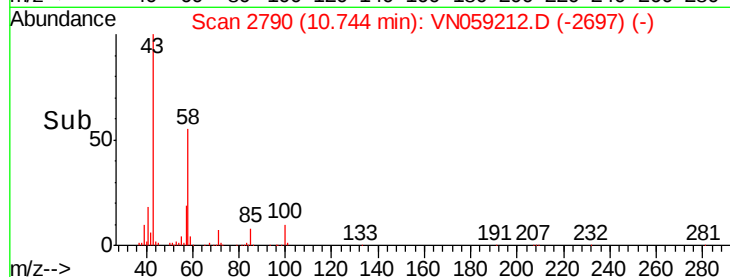
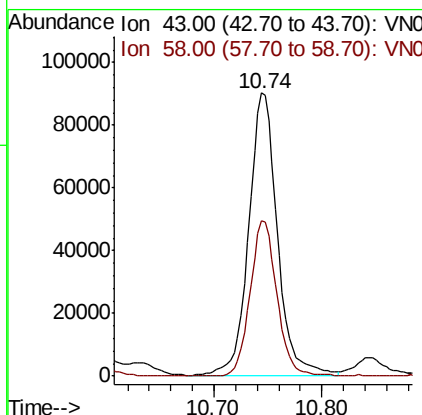
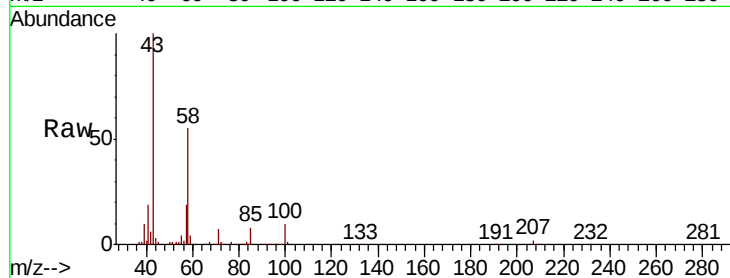




#59  
2-Hexanone  
Concen: 34.048 ug/l  
RT: 10.74 min Scan# 2790  
Delta R.T. -0.00 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

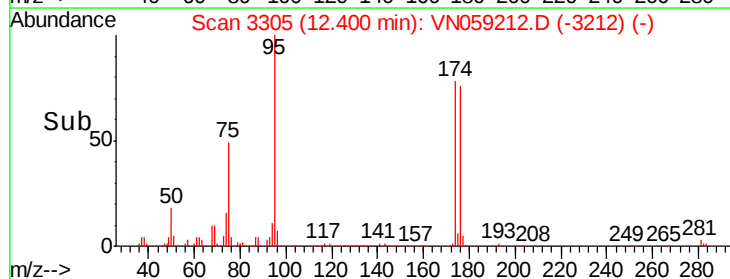
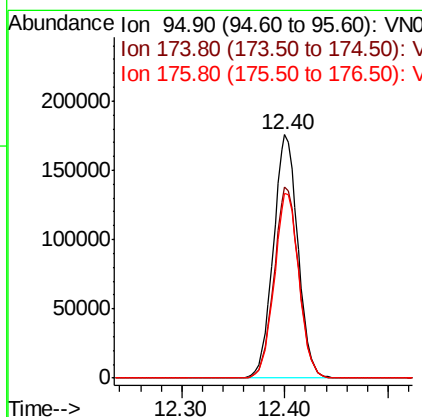
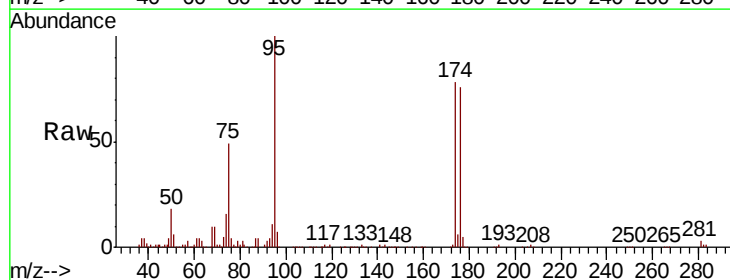
Instrument :  
MSVOA\_N  
ClientSampled :  
30535

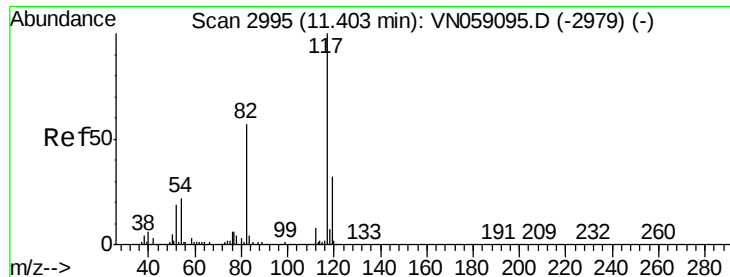
Tot Ion: 43 Resp: 165173  
Ion Ratio Lower Upper  
43 100  
58 52.1 27.3 81.8



#62  
4-Bromofluorobenzene  
Concen: 50.539 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN059212.D  
Acq: 13 Nov 2019 16:21

Tgt Ion: 95 Resp: 288782  
Ion Ratio Lower Upper  
95 100  
174 79.1 0.0 158.2  
176 76.5 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

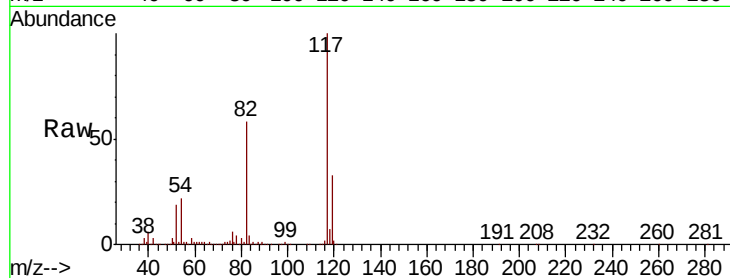
Tot Ion:117 Resp: 587288

Ion Ratio Lower Upper

117 100

82 58.2 45.8 68.8

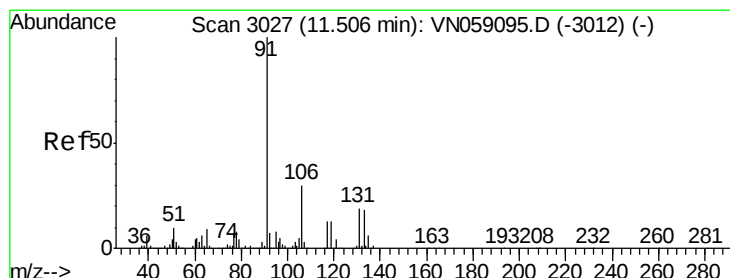
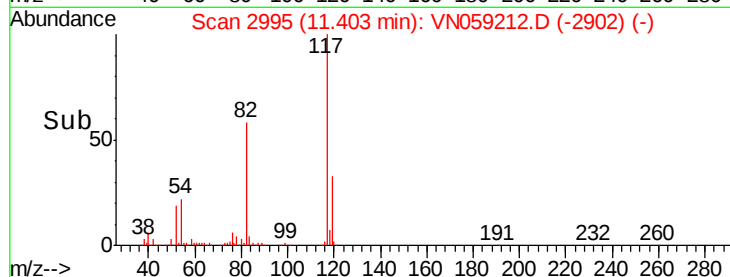
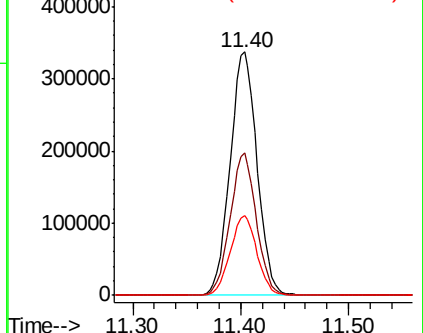
119 32.7 25.8 38.6



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



#67

Ethyl Benzene

Concen: 28.650 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059212.D

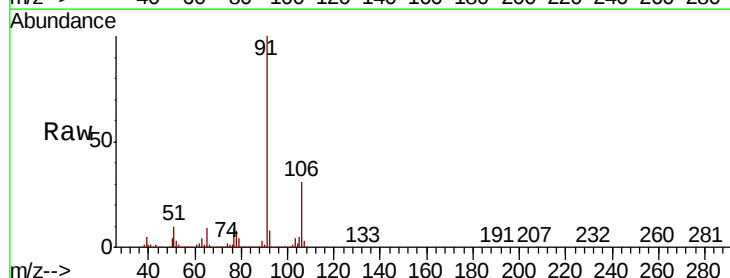
Acq: 13 Nov 2019 16:21

Tgt Ion: 91 Resp: 581946

Ion Ratio Lower Upper

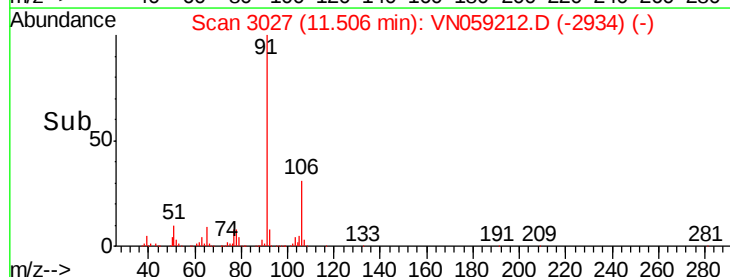
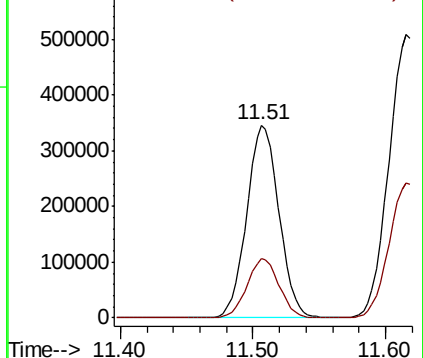
91 100

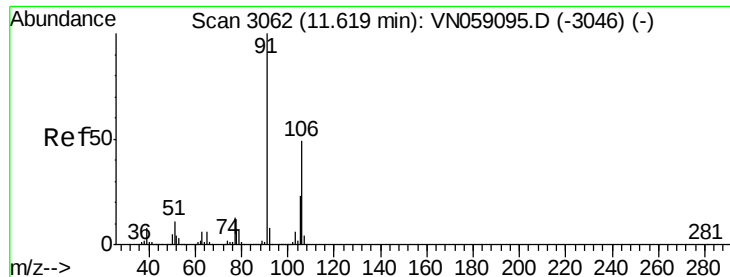
106 30.6 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 61.504 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

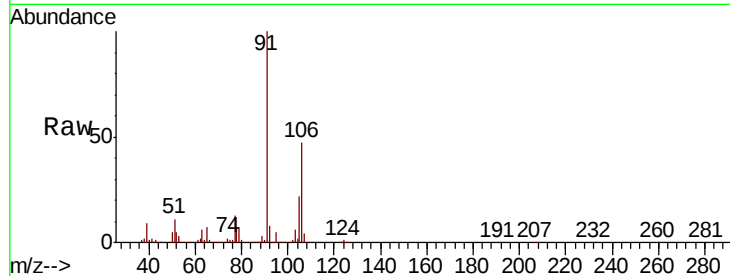
30535

Tot Ion:106 Resp: 467971

Ion Ratio Lower Upper

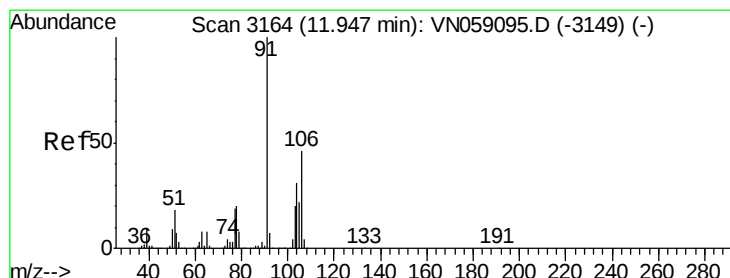
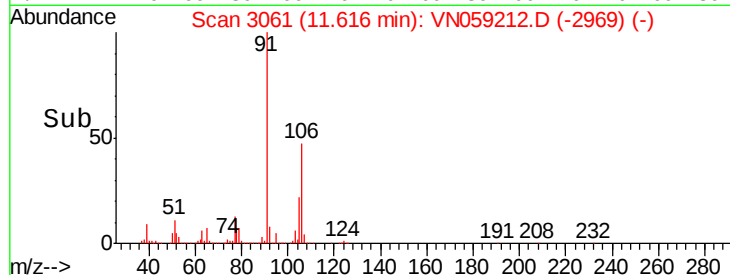
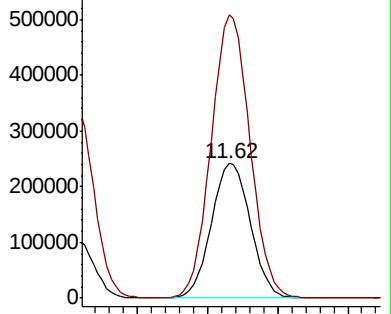
106 100

91 208.7 164.7 247.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#69

o-Xylene

Concen: 165.805 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN059212.D

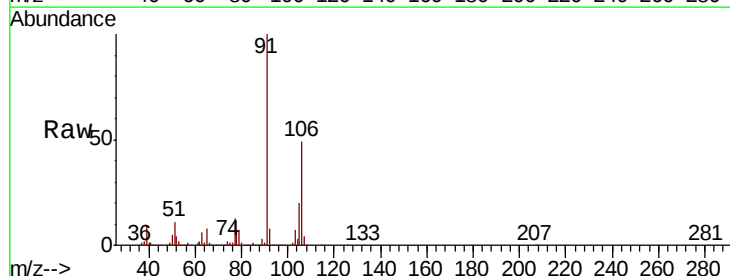
Acq: 13 Nov 2019 16:21

Tgt Ion:106 Resp: 1219182

Ion Ratio Lower Upper

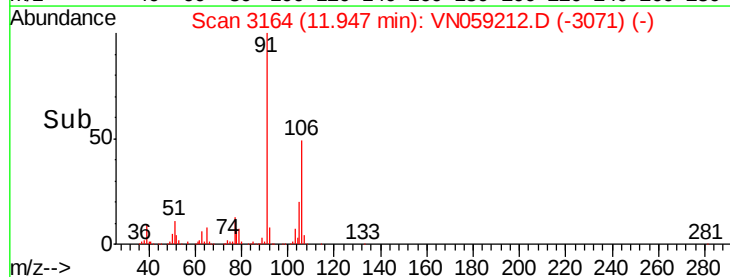
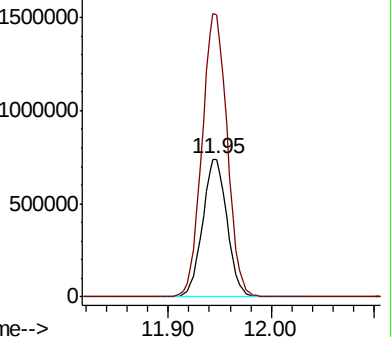
106 100

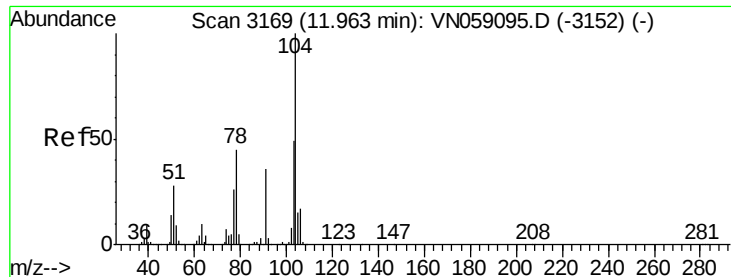
91 212.1 110.1 330.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#70

Stvrene

Concen: 6.290 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.02 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

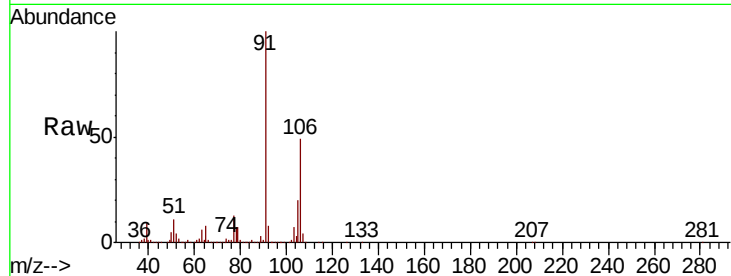
Tot Ion:104 Resp: 72735

Ion Ratio Lower Upper

104 100

78 255.0 41.2 61.8#

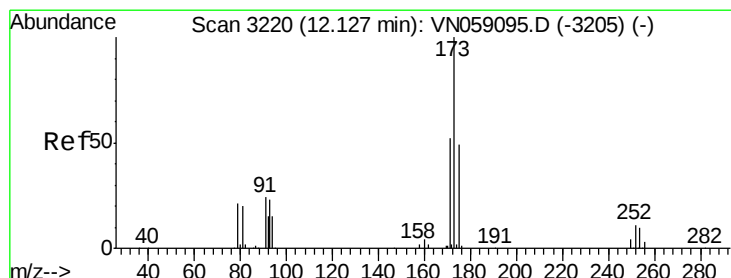
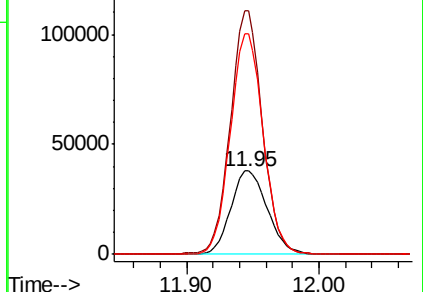
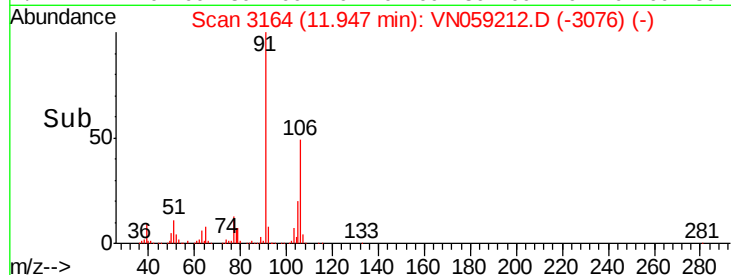
103 237.7 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.432 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

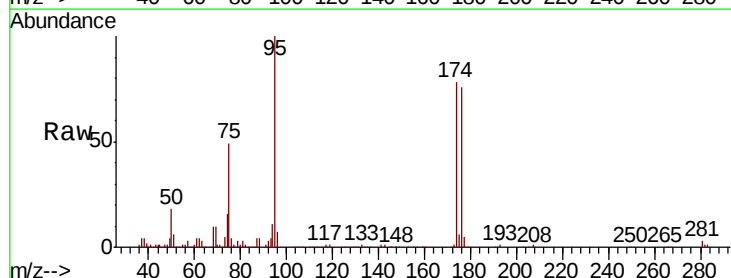
Tgt Ion:173 Resp: 1442

Ion Ratio Lower Upper

173 100

175 1001.0 24.2 72.6#

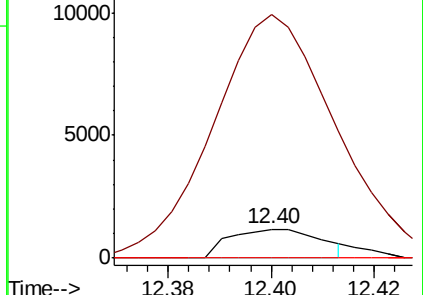
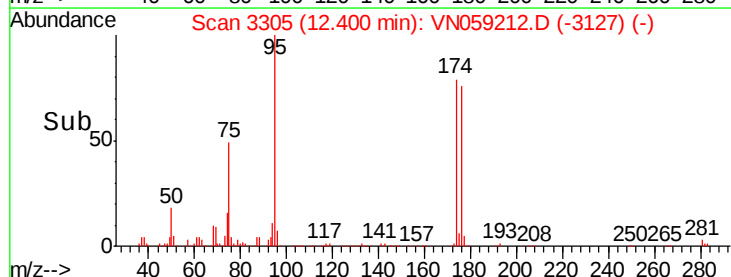
254 0.0 0.1 0.1#

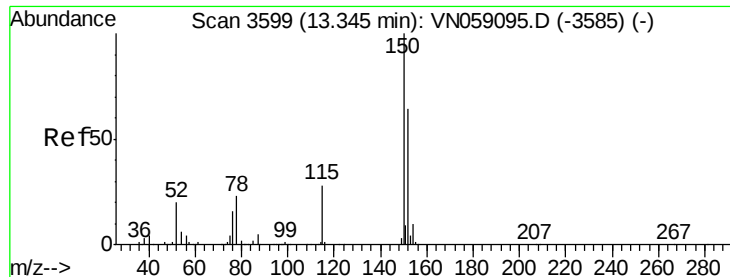


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

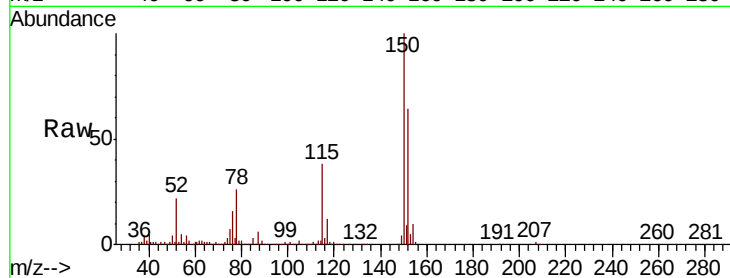
Tot Ion:152 Resp: 235476

Ion Ratio Lower Upper

152 100

115 63.2 29.4 88.2

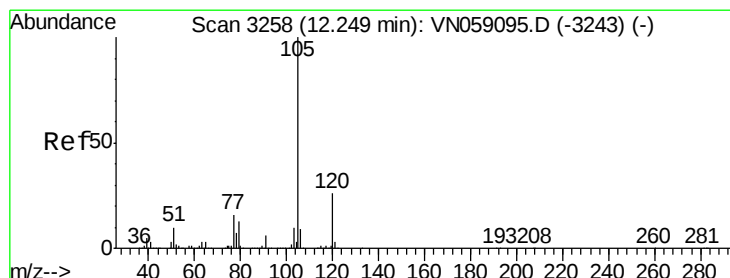
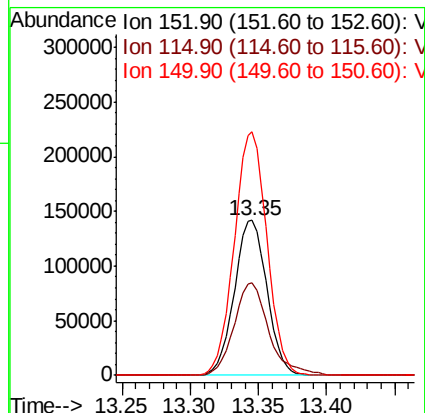
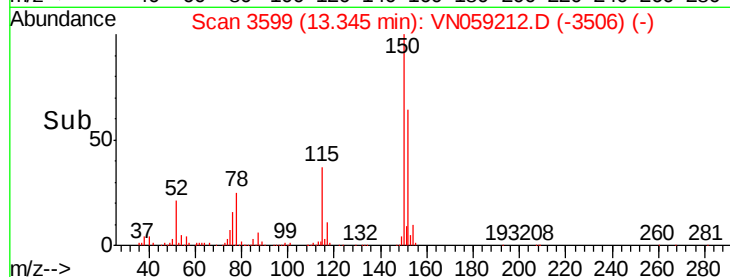
150 157.3 0.0 345.8



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



#73

Isopropylbenzene

Concen: 0.907 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059212.D

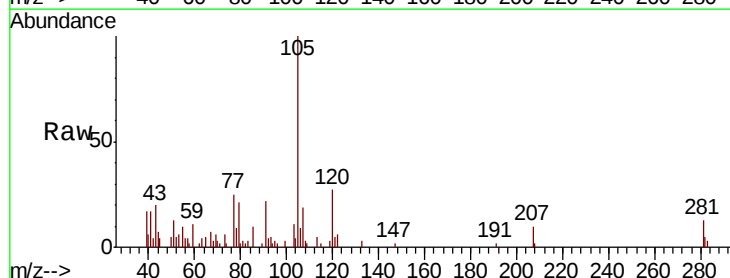
Acq: 13 Nov 2019 16:21

Tgt Ion:105 Resp: 15535

Ion Ratio Lower Upper

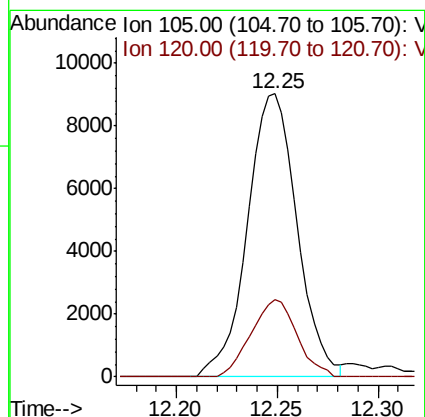
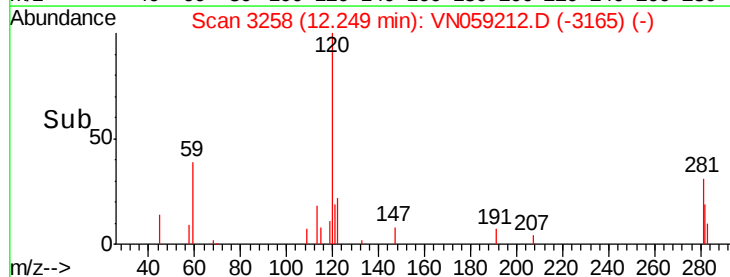
105 100

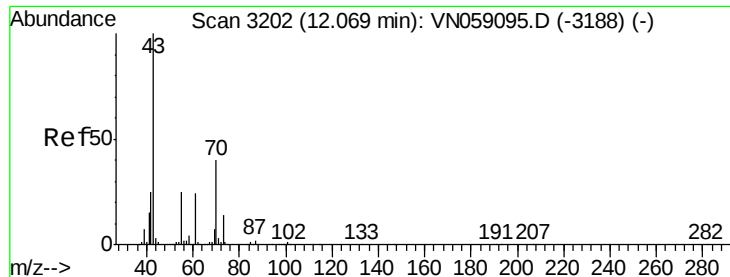
120 25.3 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: 18.237 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

Tot Ion: 43 Resp: 132367

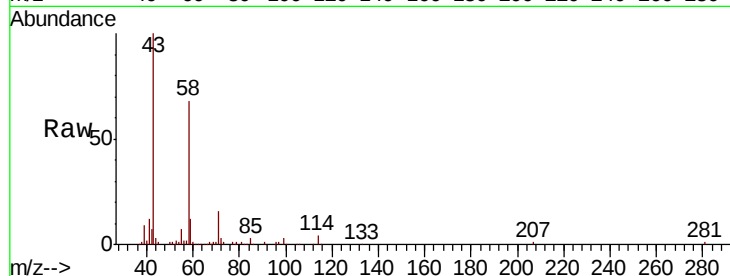
Ion Ratio Lower Upper

43 100

70 0.9 32.2 48.4#

55 5.8 20.4 30.6#

61 0.0 19.3 28.9#

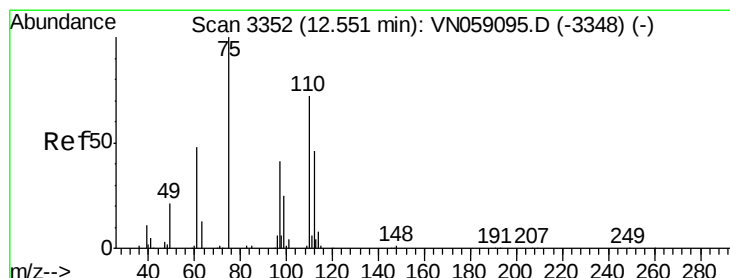
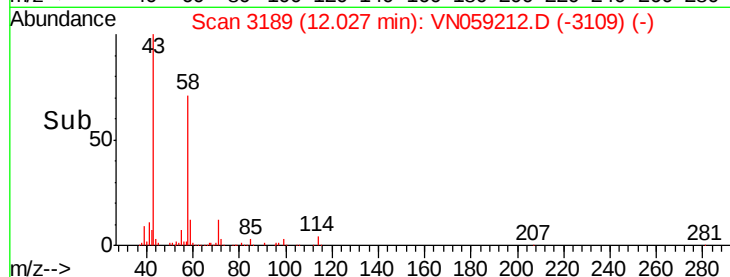
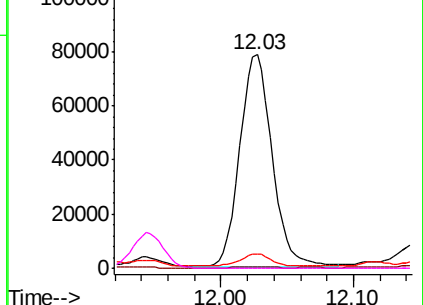


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.500 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059212.D

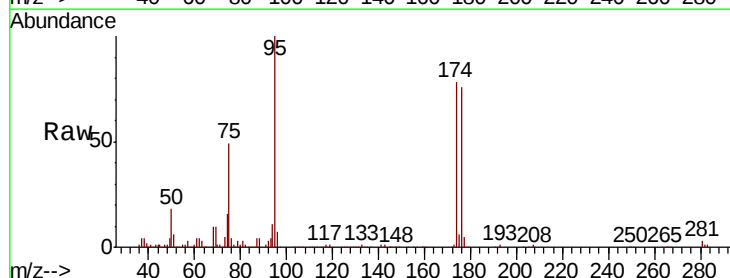
Acq: 13 Nov 2019 16:21

Tgt Ion: 75 Resp: 142069

Ion Ratio Lower Upper

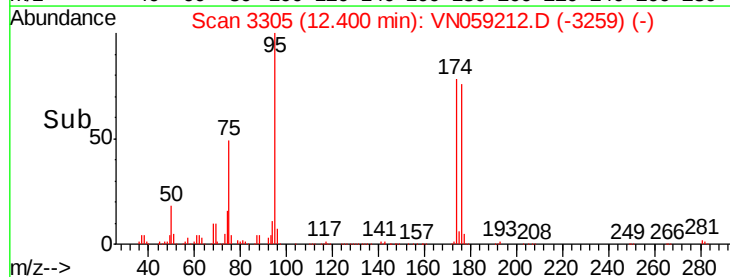
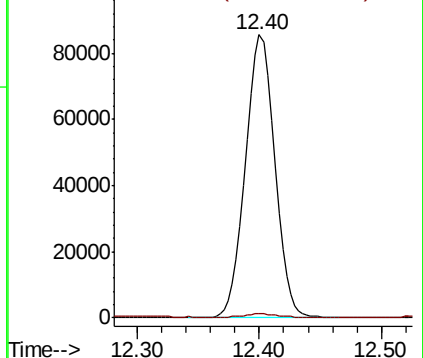
75 100

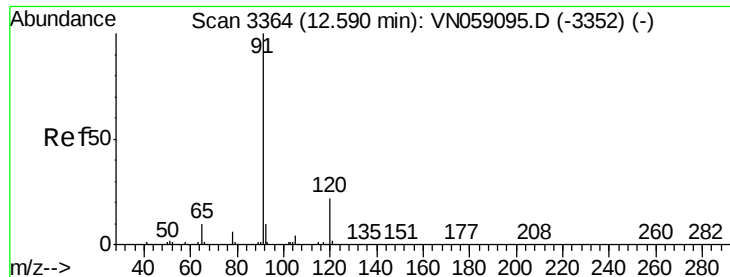
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#78

n-propylbenzene

Concen: 1.065 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

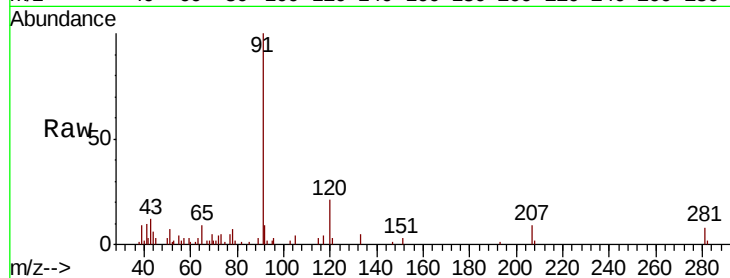
ClientSampled :  
30535

Tot Ion: 91 Resp: 20892

Ion Ratio Lower Upper

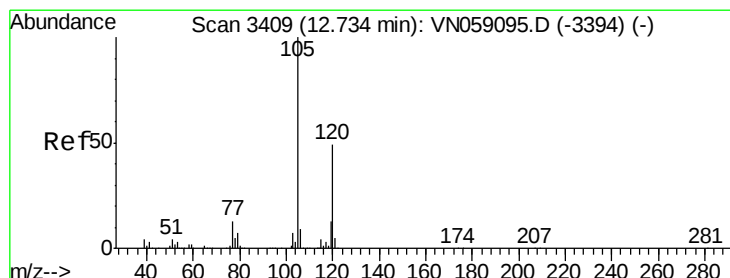
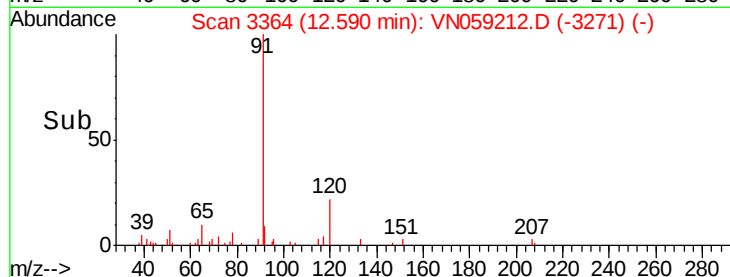
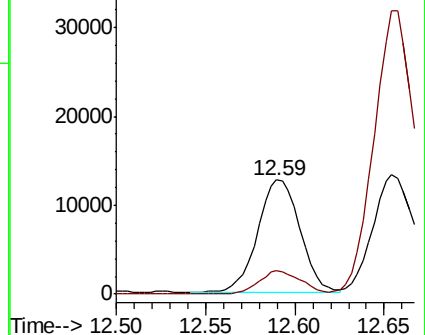
91 100

120 20.9 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN059212.D (-3352) (-)

Ion 120.00 (119.70 to 120.70): VN059212.D (-3352) (-)



#80

1,3,5-Trimethylbenzene

Concen: 11.959 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059212.D

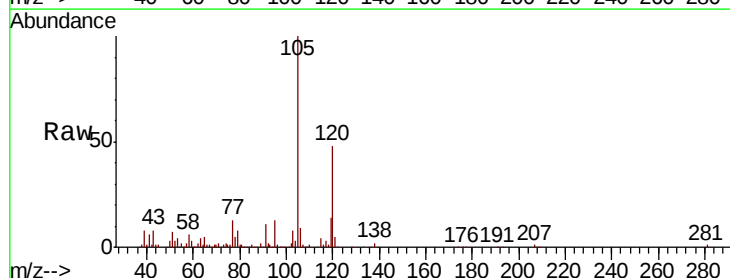
Acq: 13 Nov 2019 16:21

Tgt Ion: 105 Resp: 173571

Ion Ratio Lower Upper

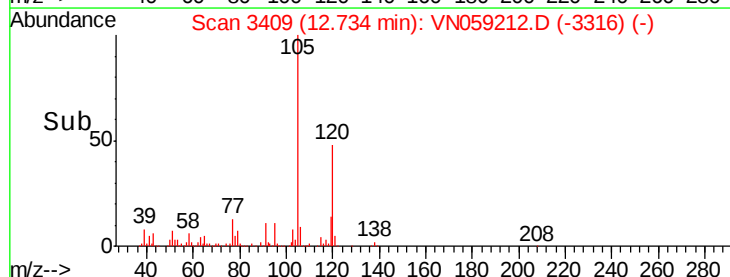
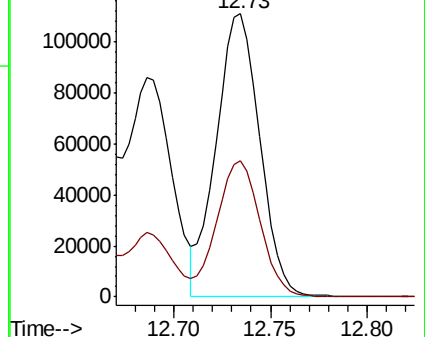
105 100

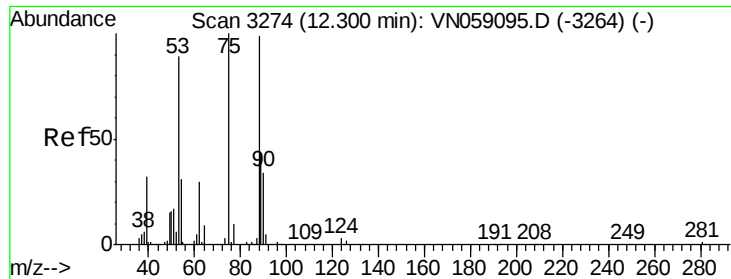
120 48.1 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059212.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN059212.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 69.995 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :  
30535

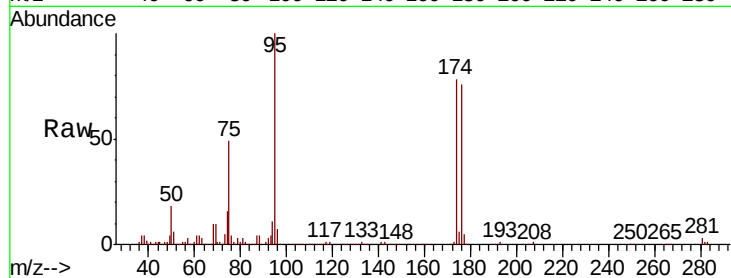
Tot Ion: 75 Resp: 142069

Ion Ratio Lower Upper

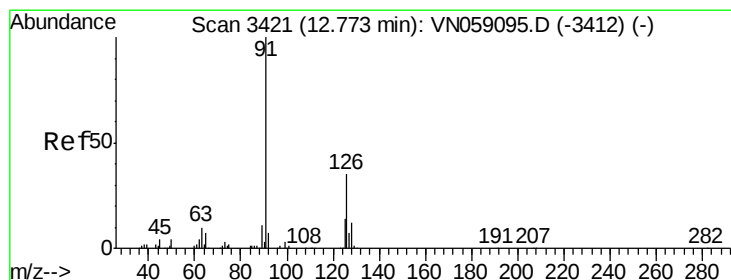
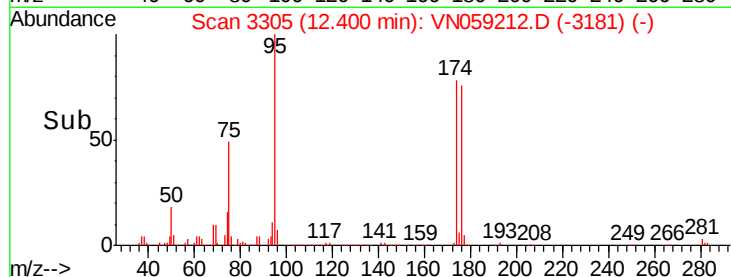
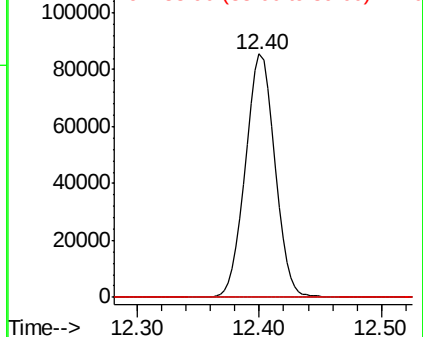
75 100

53 0.0 72.2 108.2#

89 0.1 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0  
Ion 53.00 (52.70 to 53.70): VN0  
Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 1.514 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.04 min

Lab File: VN059212.D

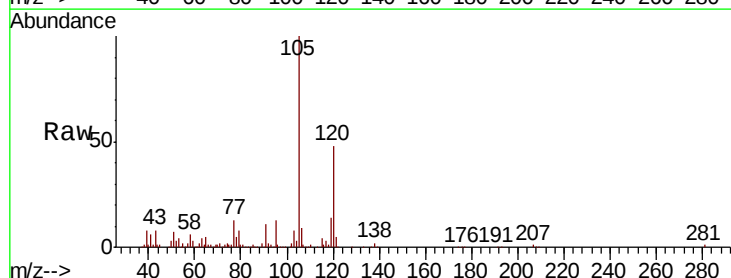
Acq: 13 Nov 2019 16:21

Tgt Ion: 91 Resp: 18472

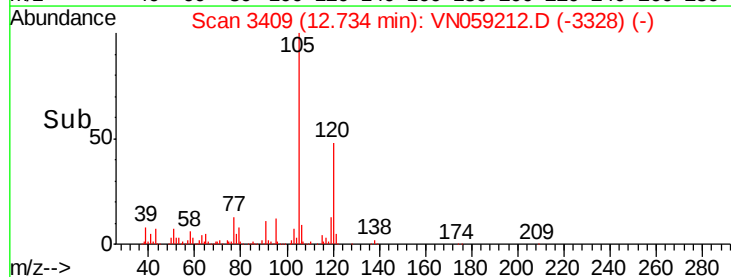
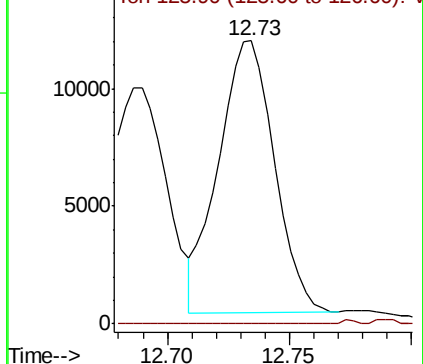
Ion Ratio Lower Upper

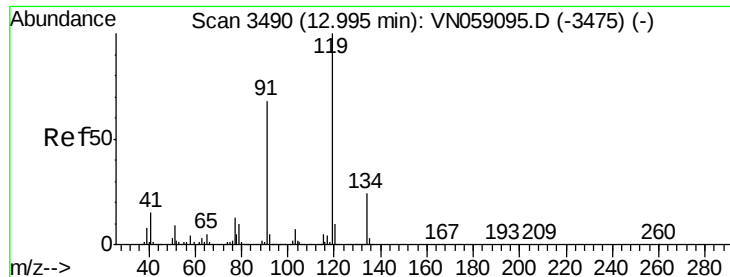
91 100

126 0.0 16.1 48.2#



Abundance Ion 91.00 (90.70 to 91.70): VN0  
Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 0.895 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.04 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :

30535

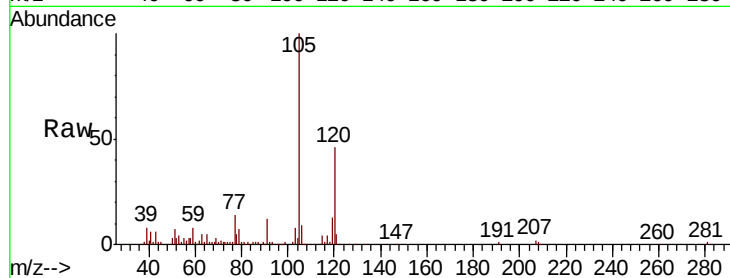
Tot Ion:119 Resp: 11219

Ion Ratio Lower Upper

119 100

91 101.3 33.2 99.6#

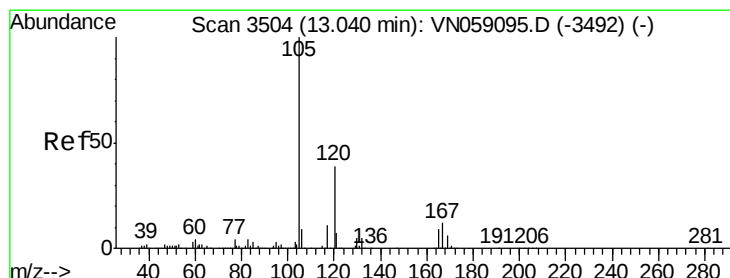
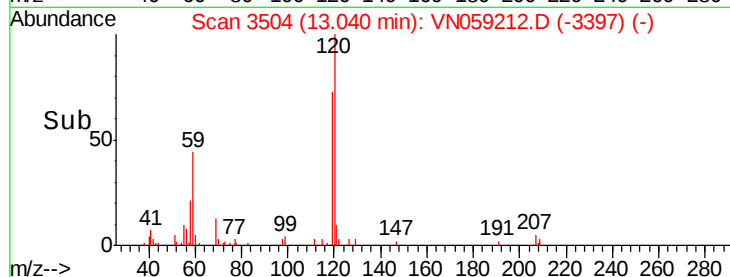
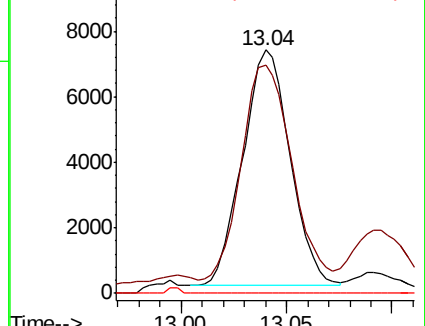
134 0.0 12.7 38.1#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 6.739 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059212.D

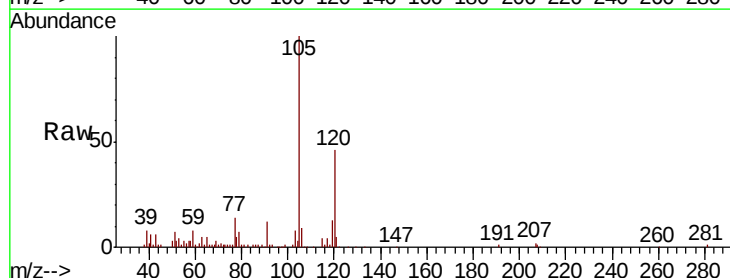
Acq: 13 Nov 2019 16:21

Tgt Ion:105 Resp: 94629

Ion Ratio Lower Upper

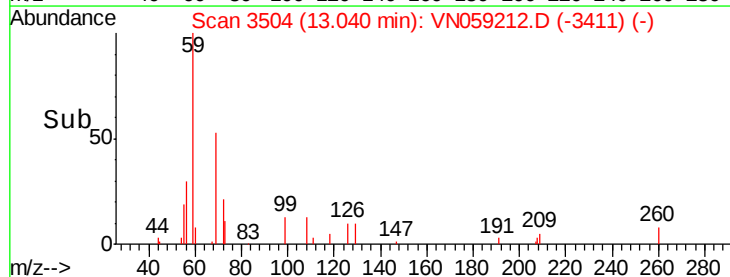
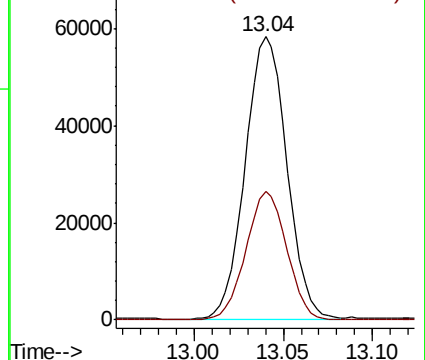
105 100

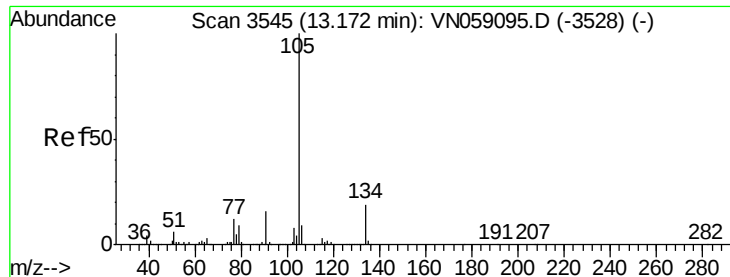
120 44.7 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 5.805 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

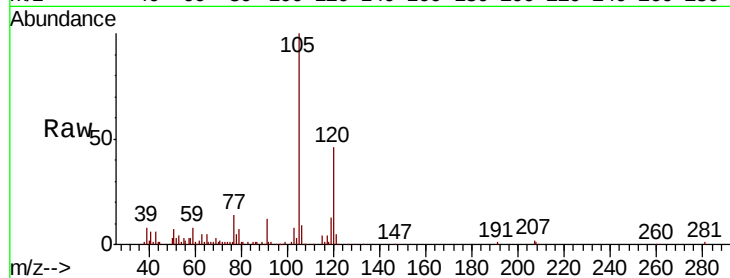
30535

Tot Ion:105 Resp: 94629

Ion Ratio Lower Upper

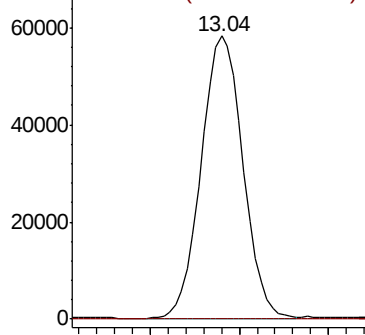
105 100

134 0.0 9.7 29.1#

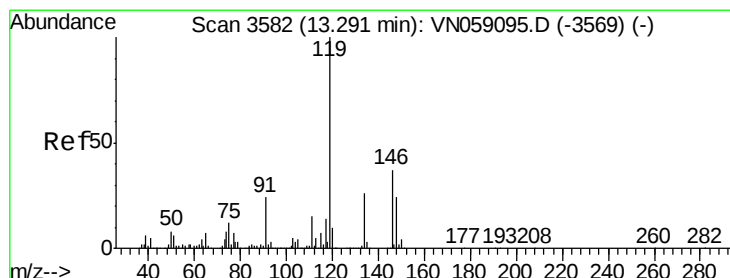
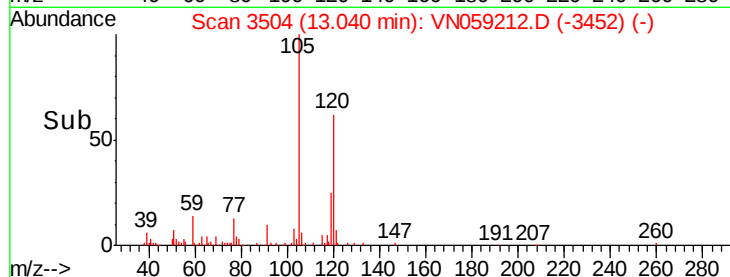


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 0.381 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

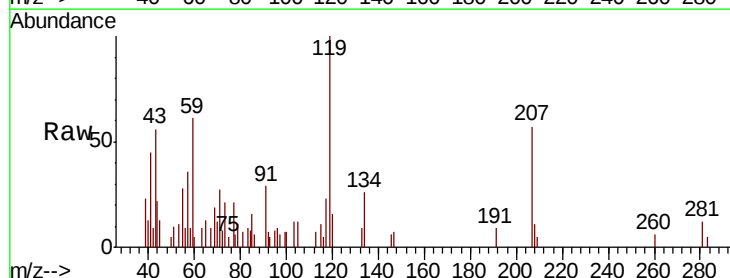
Tgt Ion:119 Resp: 5487

Ion Ratio Lower Upper

119 100

134 25.1 13.0 38.9

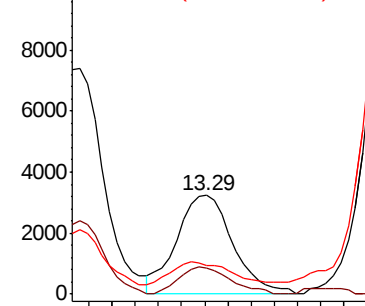
91 23.5 11.7 35.1



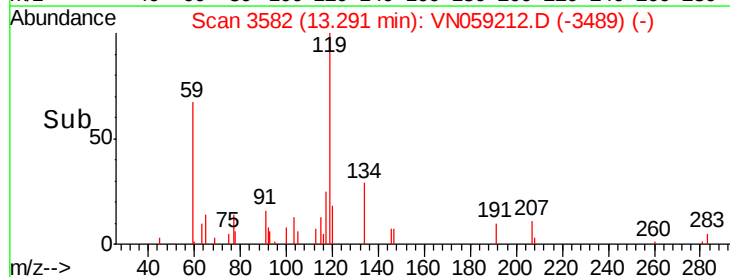
Abundance Ion 119.00 (118.70 to 119.70): V

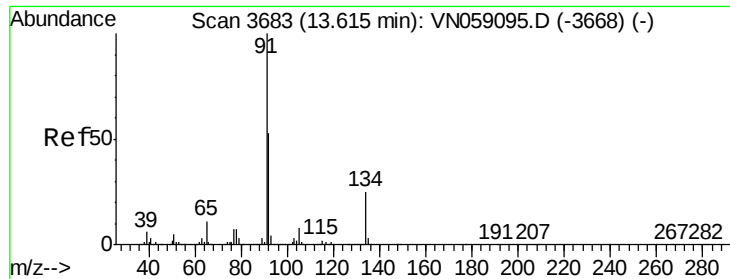
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





#89

n-Butylbenzene

Concen: 1.251 ug/l

RT: 13.58 min Scan# 3673

Delta R.T. -0.03 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampled :

30535

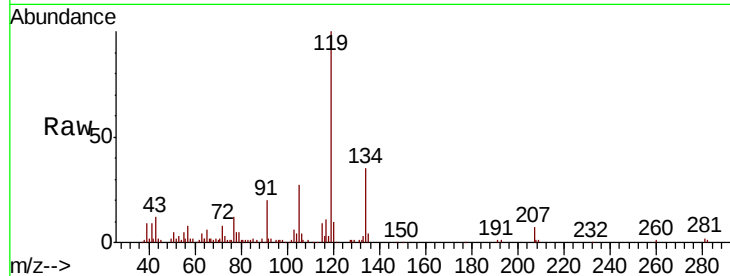
Tot Ion: 91 Resp: 15759

Ion Ratio Lower Upper

91 100

92 7.8 26.1 78.3#

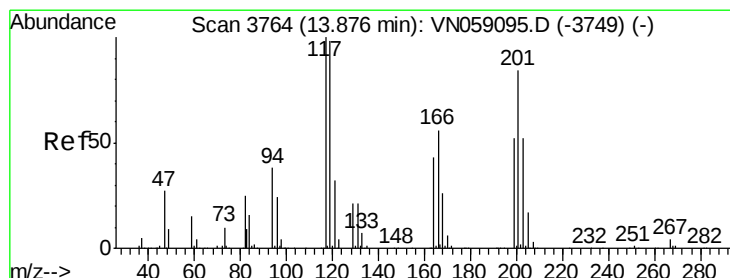
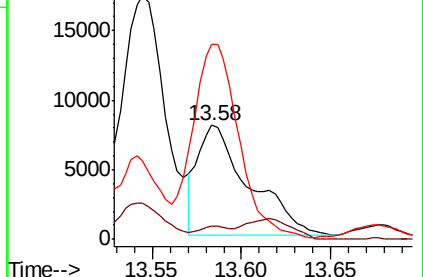
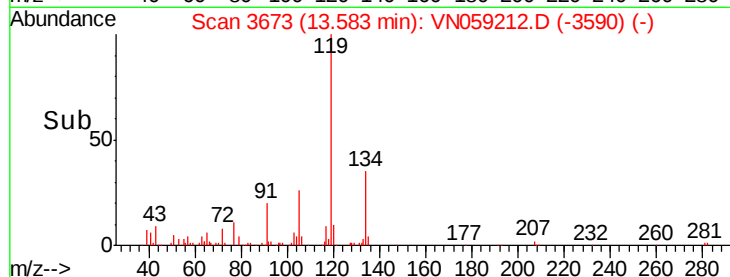
134 155.8 12.6 37.8#



Abundance Ion 91.00 (90.70 to 91.70): VN059212.D (-3673) (-)

Ion 92.00 (91.70 to 92.70): VN059212.D (-3673) (-)

Ion 134.00 (133.70 to 134.70): VN059212.D (-3673) (-)



#90

Hexachloroethane

Concen: 2.268 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN059212.D

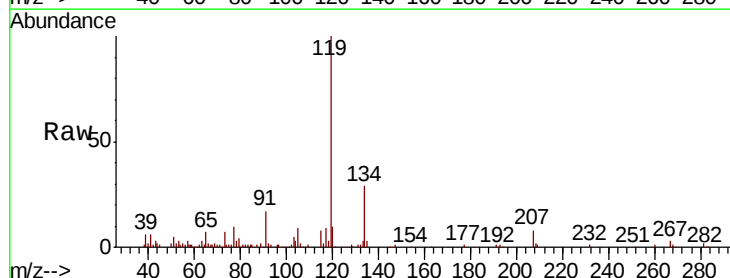
Acq: 13 Nov 2019 16:21

Tgt Ion: 117 Resp: 6554

Ion Ratio Lower Upper

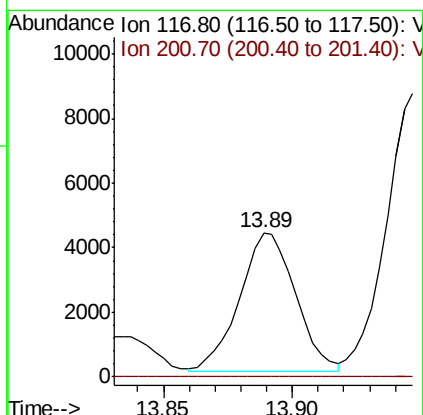
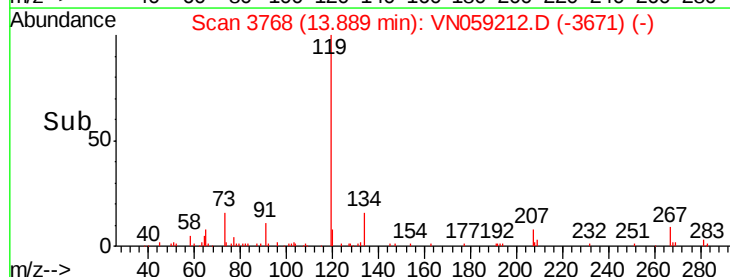
117 100

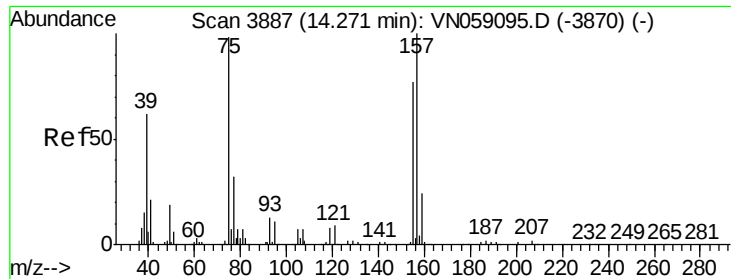
201 0.0 41.8 125.3#



Abundance Ion 116.80 (116.50 to 117.50): VN059212.D (-3768) (-)

Ion 200.70 (200.40 to 201.40): VN059212.D (-3768) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.607 ug/l

RT: 14.25 min Scan# 3881

Delta R.T. -0.02 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

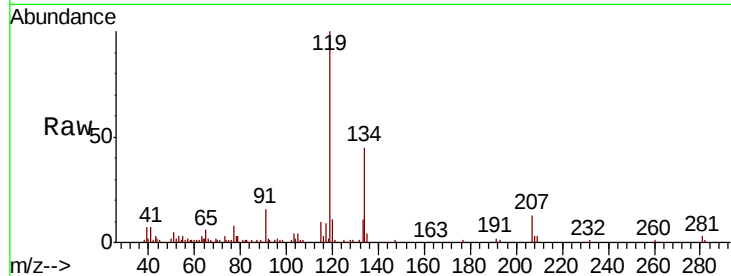
Tot Ion: 75 Resp: 676

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

157 0.0 51.8 155.5#



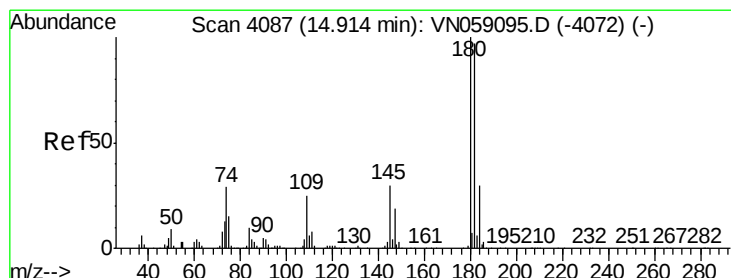
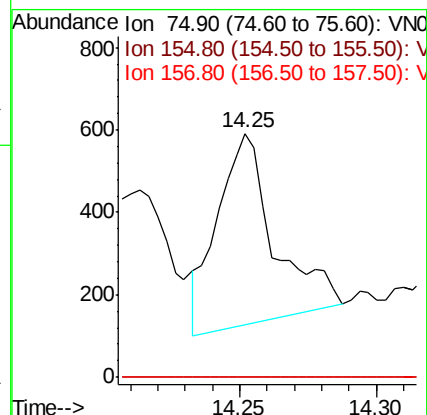
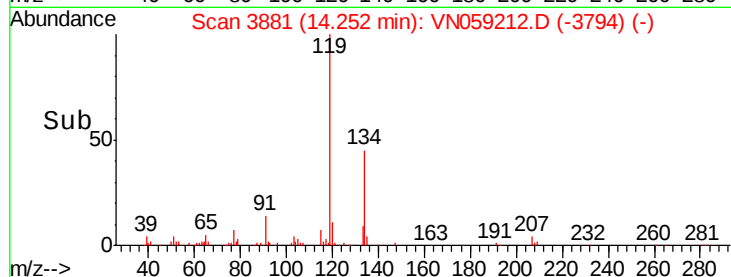
Abundance Ion 74.90 (74.60 to 75.60): VN059095.D (-3870) (-)

Ion 154.80 (154.50 to 155.50): VN059095.D (-3870) (-)

Ion 156.80 (156.50 to 157.50): VN059095.D (-3870) (-)

14.25

14.30



#93

1,2,4-Trichlorobenzene

Concen: 3.152 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

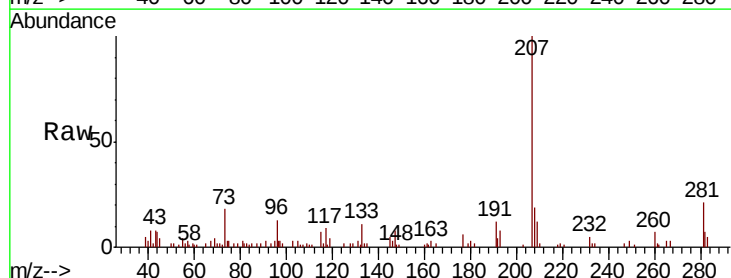
Tgt Ion: 180 Resp: 496

Ion Ratio Lower Upper

180 100

182 115.5 48.1 144.3

145 0.0 15.1 45.3#



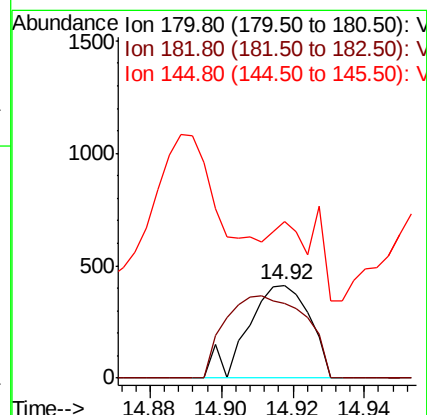
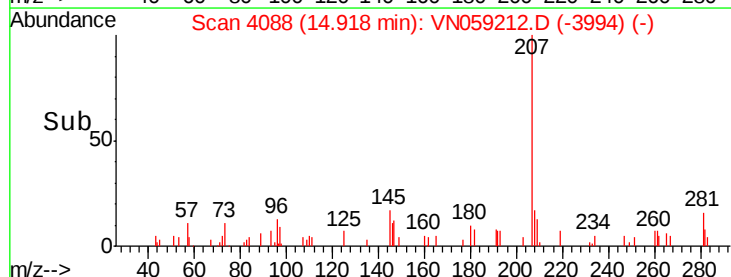
Abundance Ion 179.80 (179.50 to 180.50): VN059095.D (-4072) (-)

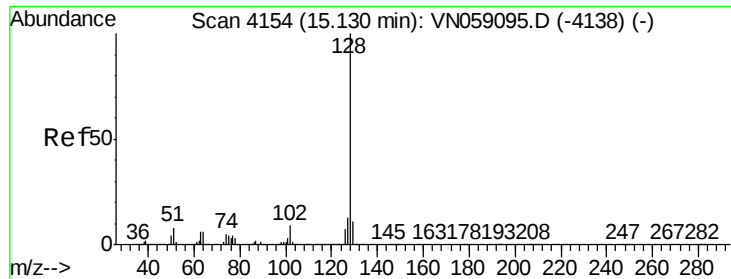
Ion 181.80 (181.50 to 182.50): VN059095.D (-4072) (-)

Ion 144.80 (144.50 to 145.50): VN059095.D (-4072) (-)

14.92

14.94





#95

Naphthalene

Concen: 5.347 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

Instrument :

MSVOA\_N

ClientSampleId :

30535

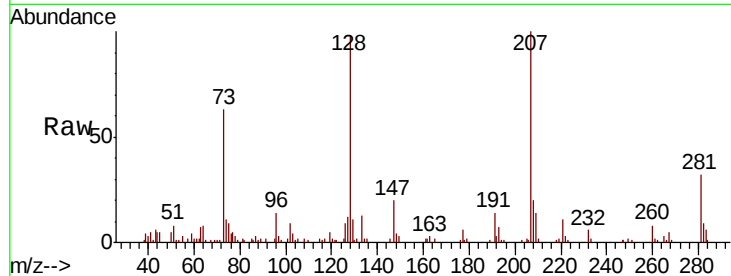
Tot Ion:128 Resp: 29917

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

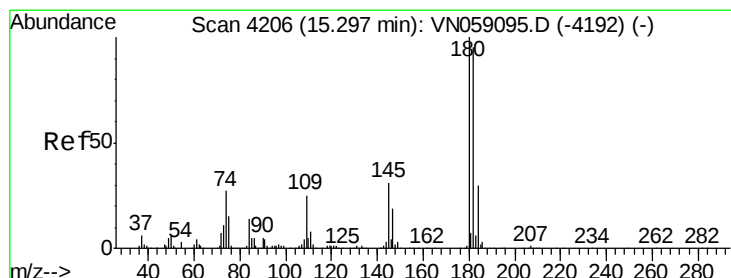
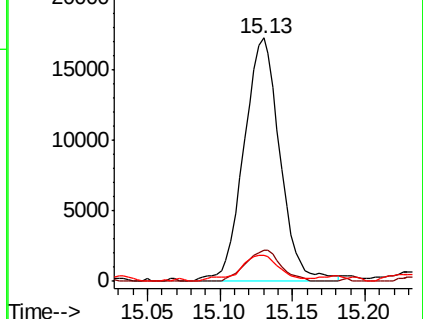
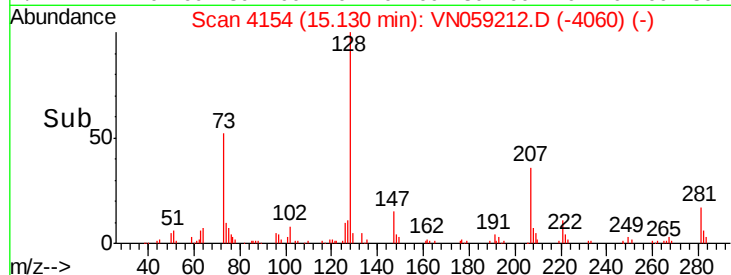
129 11.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.311 ug/l

RT: 15.29 min Scan# 4204

Delta R.T. -0.01 min

Lab File: VN059212.D

Acq: 13 Nov 2019 16:21

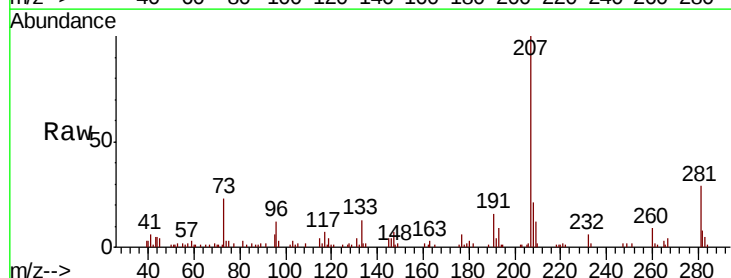
Tgt Ion:180 Resp: 1262

Ion Ratio Lower Upper

180 100

182 49.8 47.3 141.8

145 0.0 15.8 47.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

