

Data File : VN060449.D  
Acq On : 11 Mar 2020 14:49  
Operator : JC/MD  
Sample : L1859-12  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-8-SA

Quant Time: Mar 12 03:38:12 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 27 13:52:50 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 197804   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 326152   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 302822   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 138208   | 50.00 | ug/l  | 0.00     |

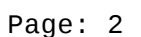
|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 127756   | 50.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.68% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 95213    | 62.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 125.78% |      |
| 50) Toluene-d8              | 10.08  | 98  | 403709   | 52.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.38% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 147811   | 50.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.78% |      |

| Target Compounds               |       |     |       |           | Qvalue |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| 16) Acetone                    | 3.79  | 43  | 5726  | 6.987     | ug/l   | 92  |
| 18) Methyl Acetate             | 4.30  | 43  | 1757  | 0.642     | ug/l # | 52  |
| 20) Methylene Chloride         | 4.53  | 84  | 17405 | 7.733     | ug/l   | 97  |
| 25) 2-Butanone                 | 6.81  | 43  | 1424  | 1.076     | ug/l # | 49  |
| 31) Cyclohexane                | 7.63  | 56  | 4235  | Below Cal | #      | 14  |
| 36) 1,1-Dichloropropene        | 7.64  | 75  | 15442 | 4.968     | ug/l # | 46  |
| 37) Ethyl Acetate              | 6.81  | 43  | 1424  | 0.484     | ug/l # | 68  |
| 38) Carbon Tetrachloride       | 7.64  | 117 | 19070 | 6.301     | ug/l # | 16  |
| 40) Benzene                    | 8.02  | 78  | 12724 | 1.406     | ug/l   | 99  |
| 43) Isopropyl Acetate          | 8.14  | 43  | 54619 | 10.600    | ug/l # | 91  |
| 45) 1,2-Dichloropropane        | 9.26  | 63  | 1013  | 0.428     | ug/l # | 44  |
| 48) Methyl methacrylate        | 9.16  | 41  | 2665  | 1.134     | ug/l # | 13  |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43  | 3737  | 1.279     | ug/l   | 88  |
| 52) Toluene                    | 10.14 | 92  | 2822  | 0.497     | ug/l   | 91  |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75  | 22656 | 5.716     | ug/l # | 59  |
| 57) 1,3-Dichloropropane        | 10.75 | 76  | 3567  | 0.957     | ug/l # | 42  |
| 59) 2-Hexanone                 | 10.75 | 43  | 54290 | 25.310    | ug/l # | 52  |
| 67) Ethyl Benzene              | 11.50 | 91  | 3776  | 0.339     | ug/l   | 99  |
| 68) m/p-Xylenes                | 11.61 | 106 | 956   | 0.228     | ug/l   | 92  |
| 74) N-amyl acetate             | 12.02 | 43  | 2255  | 0.504     | ug/l # | 44  |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 75469 | 24.888    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 75469 | 68.704    | ug/l # | 8   |
| 95) Naphthalene                | 15.13 | 128 | 1080  | Below Cal | #      | 69  |

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

ALS Vial : 16      Sample Multiplier: 1

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: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampleId :

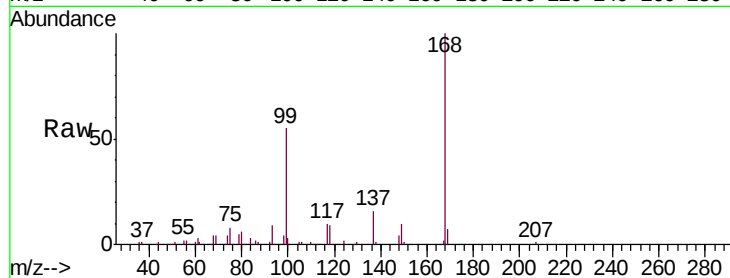
TP-8-SA

Tgt Ion:168 Resp: 197804

Ion Ratio Lower Upper

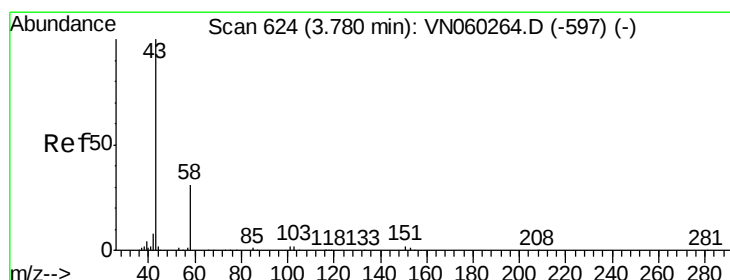
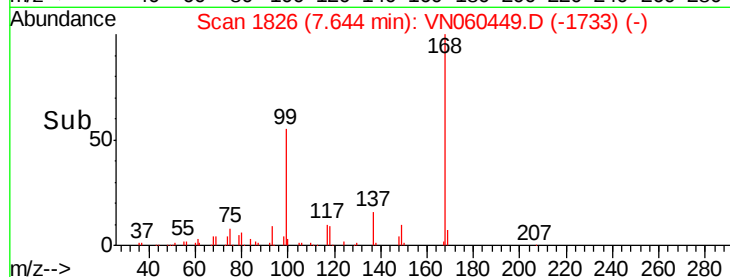
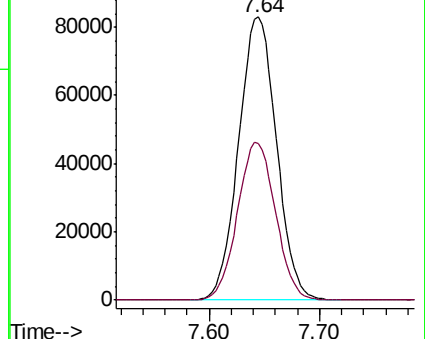
168 100

99 55.3 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 6.987 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060449.D

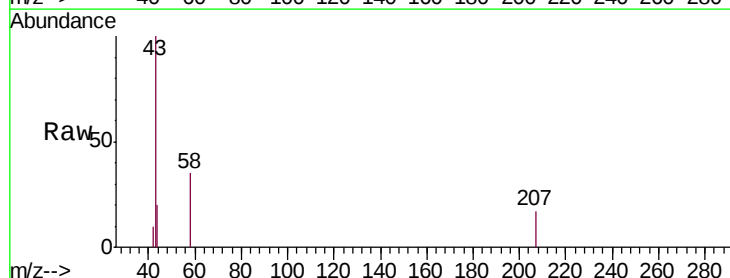
Acq: 11 Mar 2020 14:49

Tgt Ion: 43 Resp: 5726

Ion Ratio Lower Upper

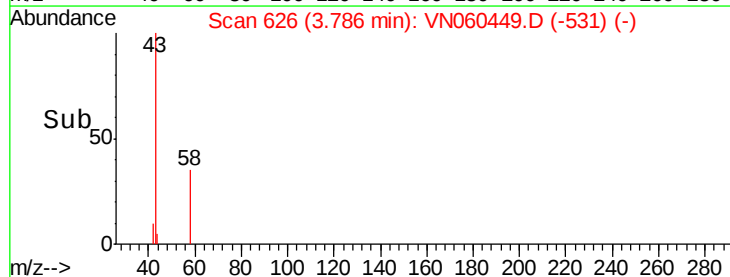
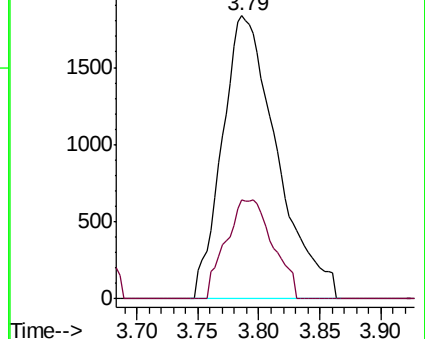
43 100

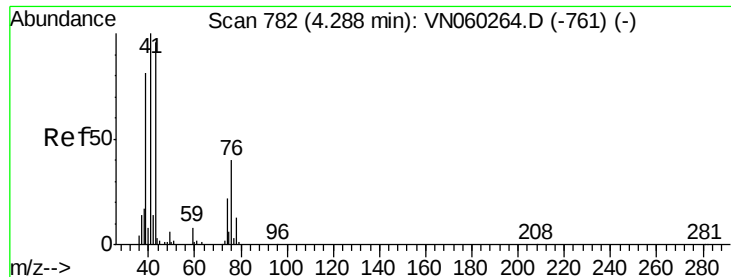
58 35.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

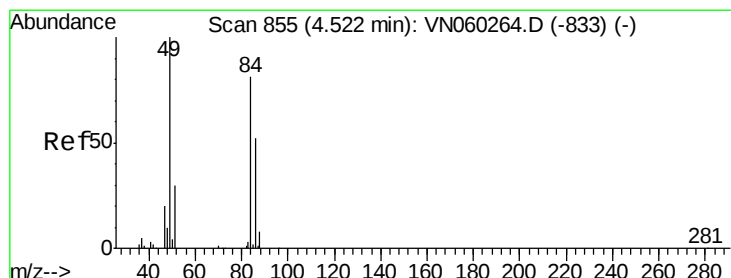
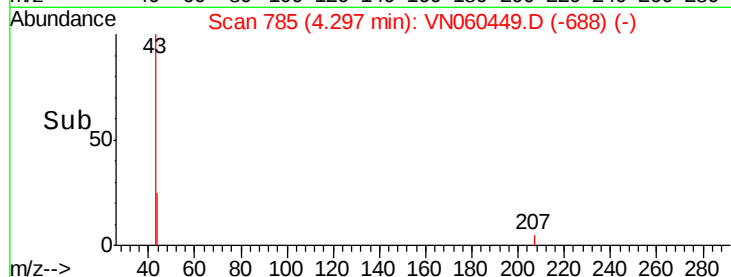
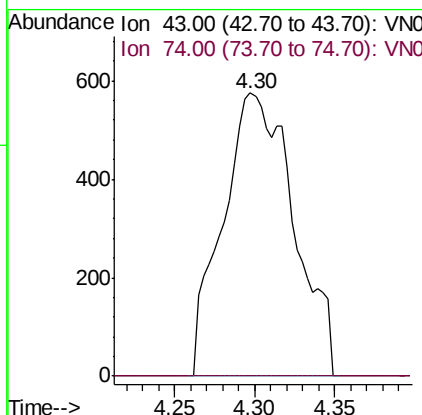
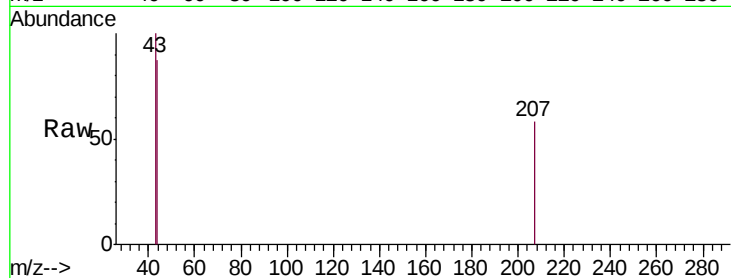




#18  
Methyl Acetate  
Concen: 0.642 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. 0.01 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

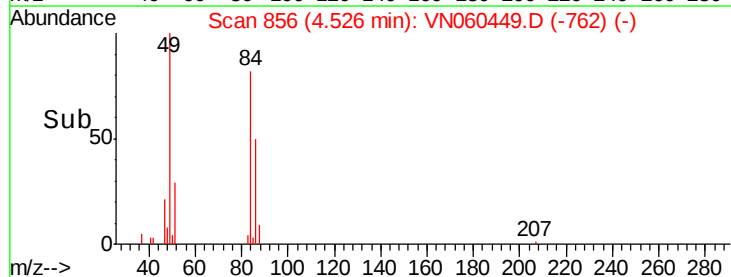
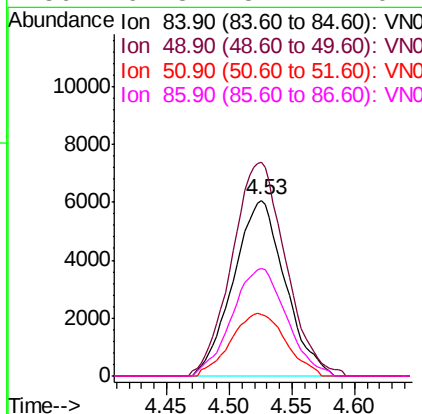
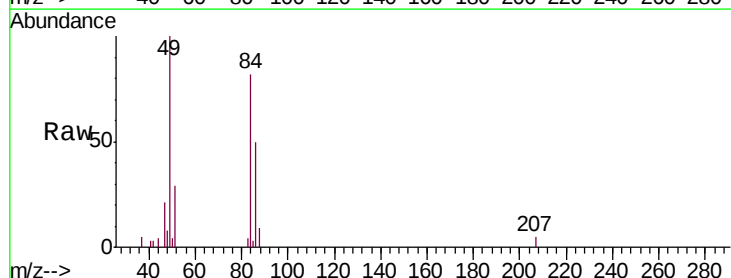
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-8-SA

Tgt Ion: 43 Resp: 1757  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.8 28.2#



#20  
Methylene Chloride  
Concen: 7.733 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

Tgt Ion: 84 Resp: 17405  
Ion Ratio Lower Upper  
84 100  
49 121.6 99.3 148.9  
51 35.0 30.1 45.1  
86 61.3 51.1 76.7





#25

2-Butanone

Concen: 1.076 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampled :

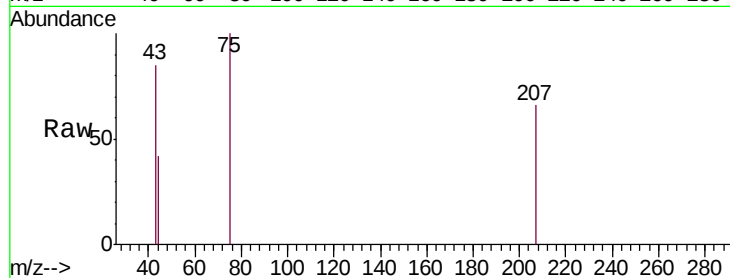
TP-8-SA

Tgt Ion: 43 Resp: 1424

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1540) (-)

Ion 72.00 (71.70 to 72.70): VN060264.D (-1540) (-)

6.81

500

400

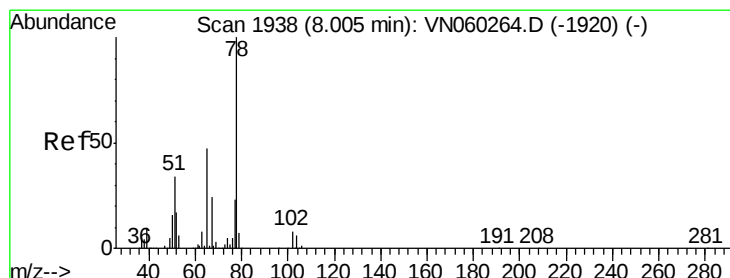
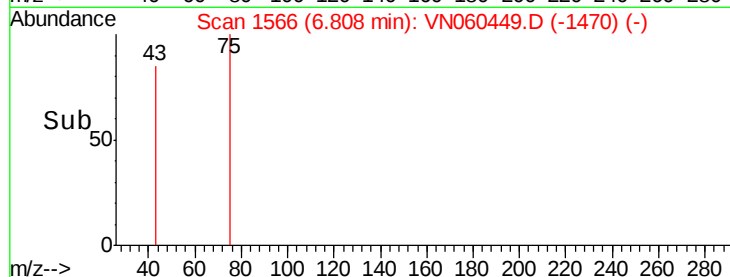
300

200

100

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.340 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060449.D

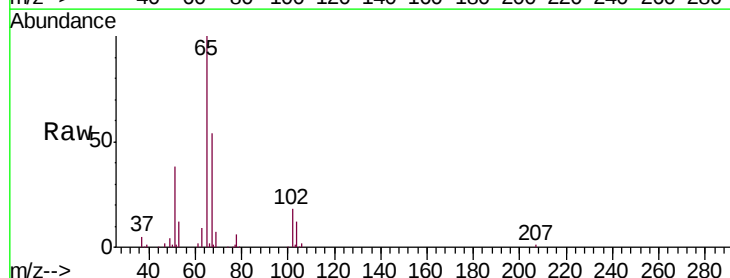
Acq: 11 Mar 2020 14:49

Tgt Ion: 65 Resp: 127756

Ion Ratio Lower Upper

65 100

67 52.9 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060264.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060264.D (-1920) (-)

8.00

60000

50000

40000

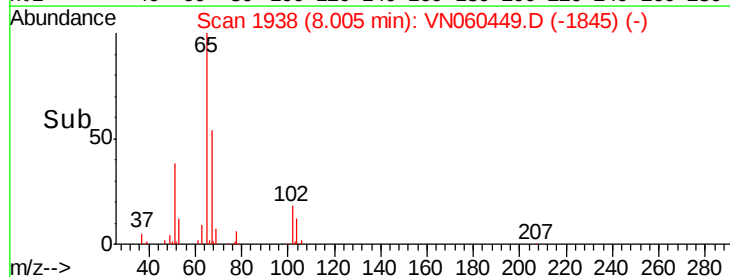
30000

20000

10000

0

Time-->

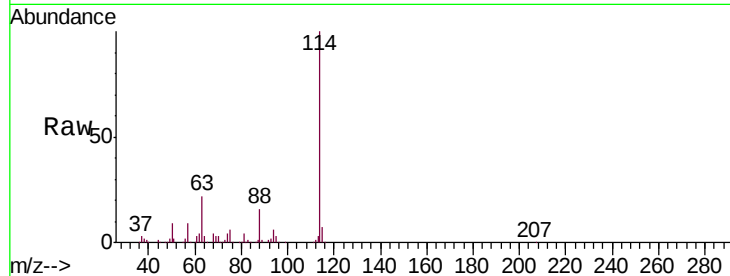




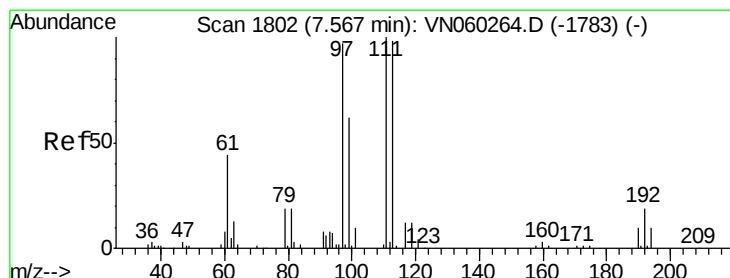
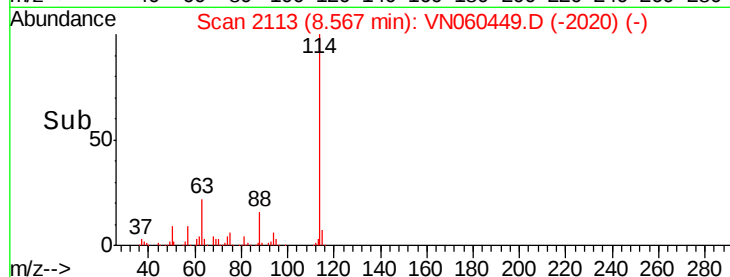
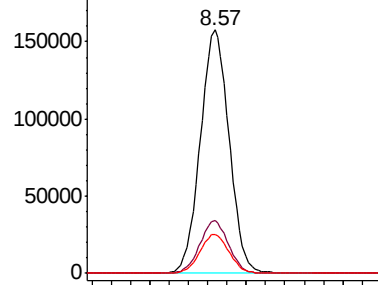
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN060449.D  
 Acq: 11 Mar 2020 14:49

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-8-SA

Tgt Ion:114 Resp: 326152  
 Ion Ratio Lower Upper  
 114 100  
 63 21.5 0.0 43.2  
 88 16.2 0.0 31.6

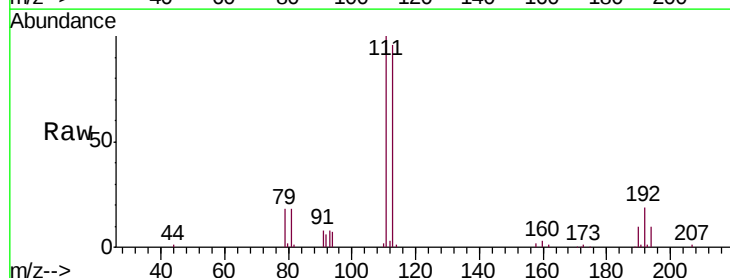


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

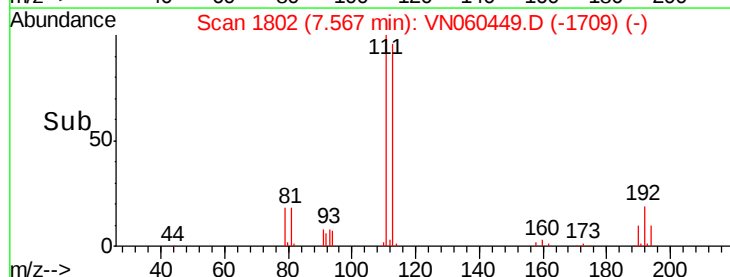
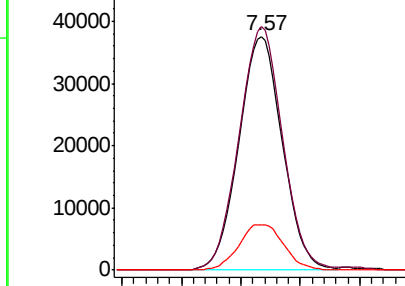


#35  
 Dibromofluoromethane  
 Concen: 62.893 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VN060449.D  
 Acq: 11 Mar 2020 14:49

Tgt Ion:113 Resp: 95213  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 82.4 123.6  
 192 20.0 16.2 24.2



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: 4.968 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampleId :

TP-8-SA

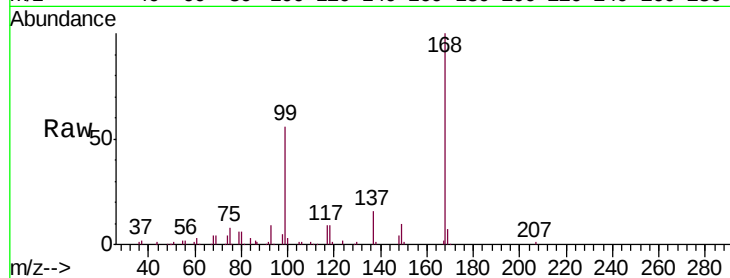
Tgt Ion: 75 Resp: 15442

Ion Ratio Lower Upper

75 100

110 3.7 17.3 52.0#

77 0.0 24.2 36.2#

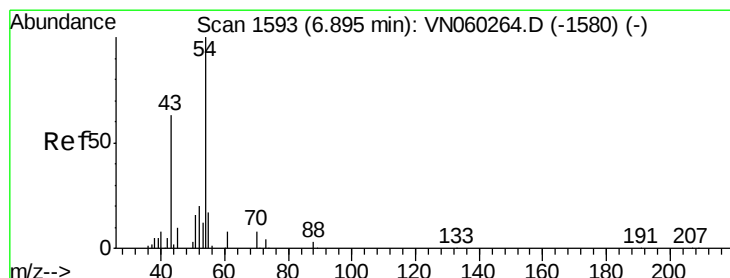
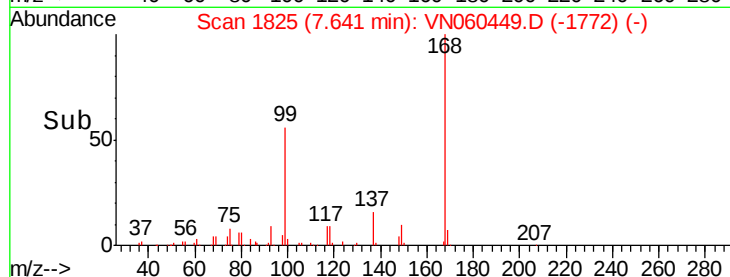


Abundance Ion 74.90 (74.60 to 75.60): VN060449.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060449.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060449.D (-1772) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.484 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

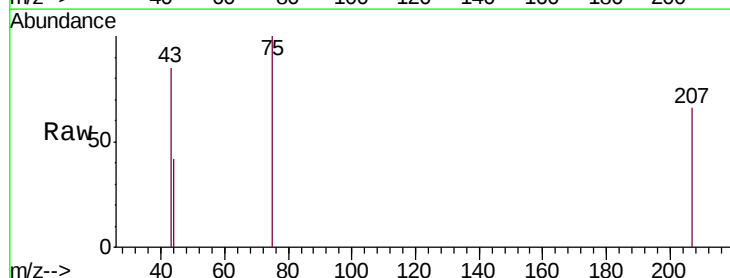
Tgt Ion: 43 Resp: 1424

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

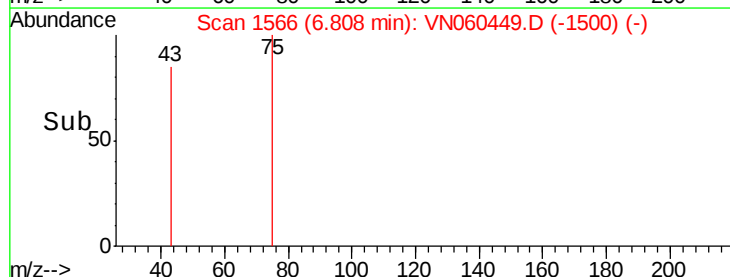


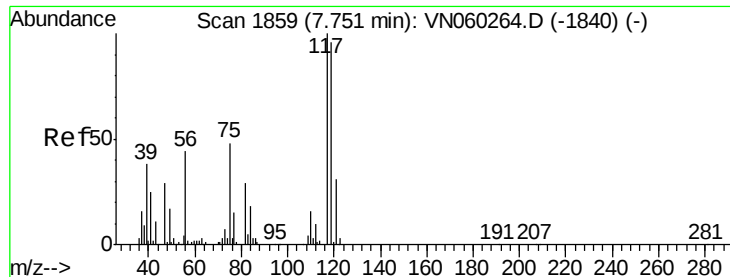
Abundance Ion 43.00 (42.70 to 43.70): VN060449.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060449.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060449.D (-1500) (-)

Time-->





#38

Carbon Tetrachloride

Concen: 6.301 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampleId :

TP-8-SA

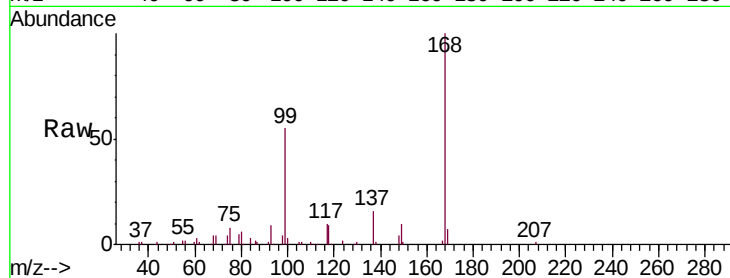
Tgt Ion:117 Resp: 19070

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

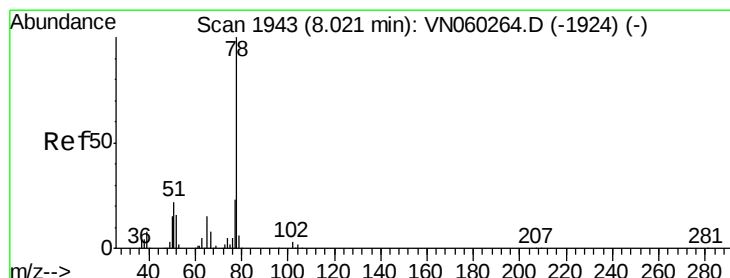
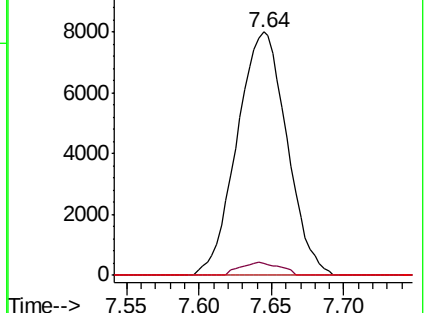
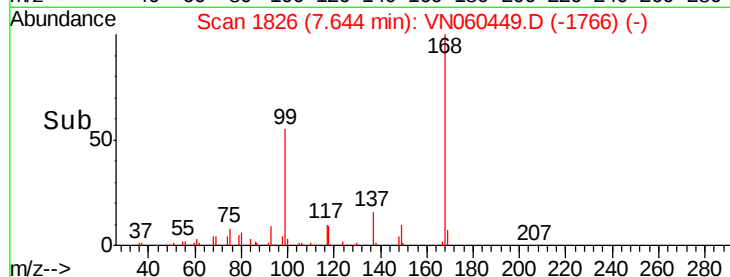
121 0.0 24.5 36.7#



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



#40

Benzene

Concen: 1.406 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN060449.D

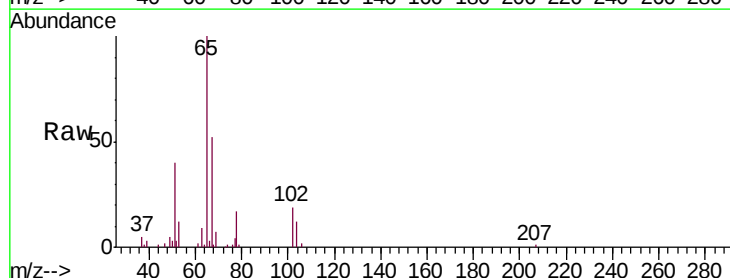
Acq: 11 Mar 2020 14:49

Tgt Ion: 78 Resp: 12724

Ion Ratio Lower Upper

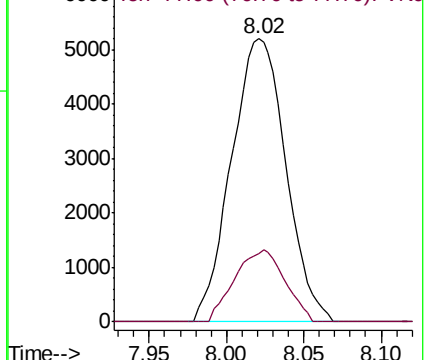
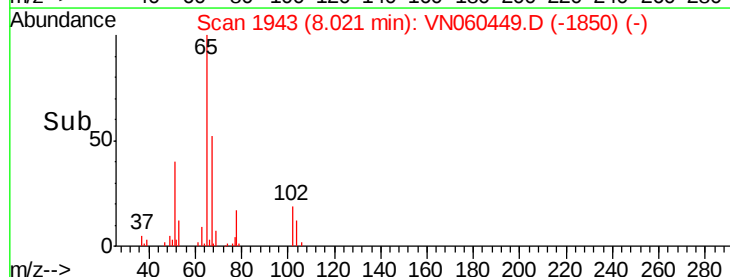
78 100

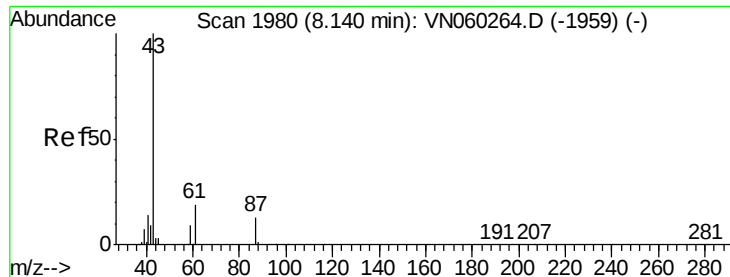
77 24.2 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 10.600 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampleId :

TP-8-SA

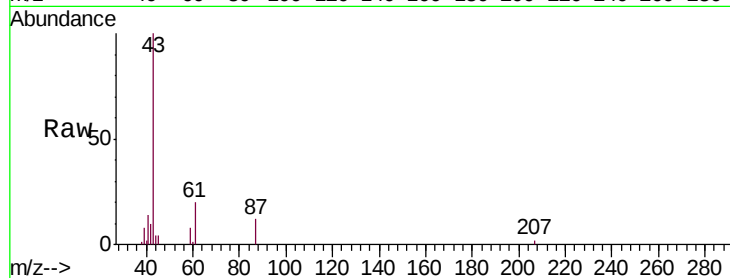
Tgt Ion: 43 Resp: 54619

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

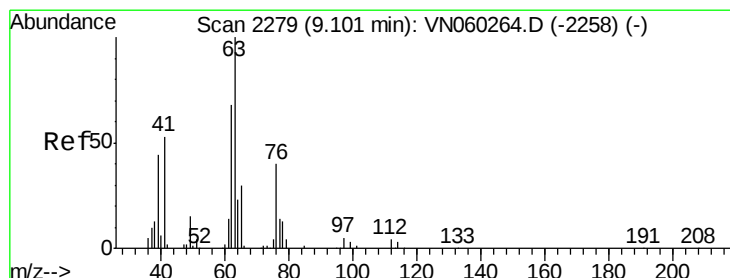
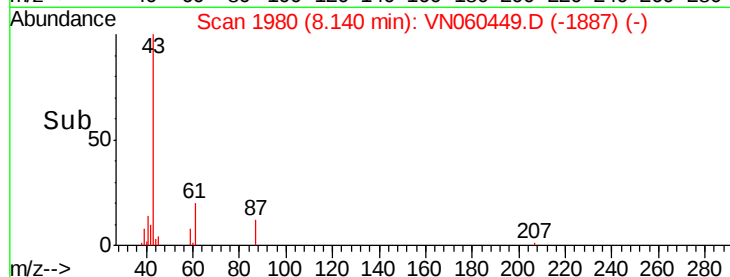
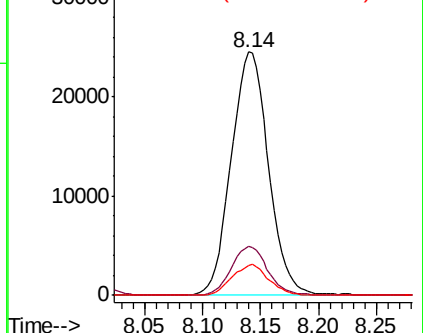
87 12.3 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060264.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.428 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN060449.D

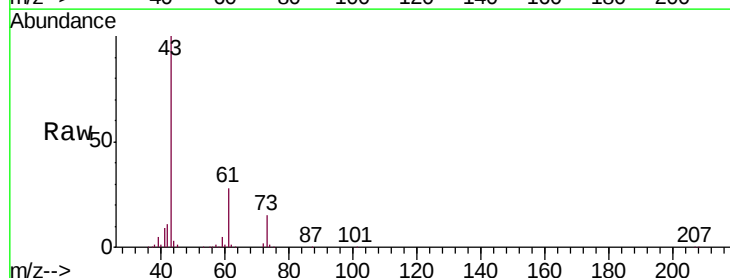
Acq: 11 Mar 2020 14:49

Tgt Ion: 63 Resp: 1013

Ion Ratio Lower Upper

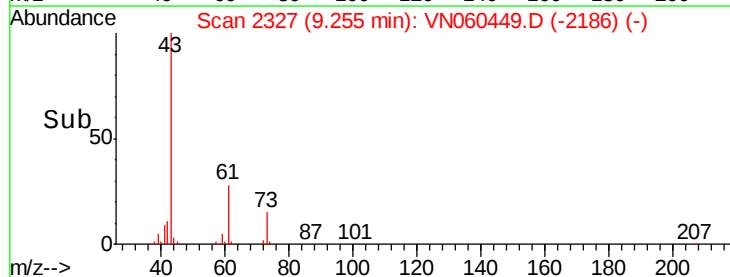
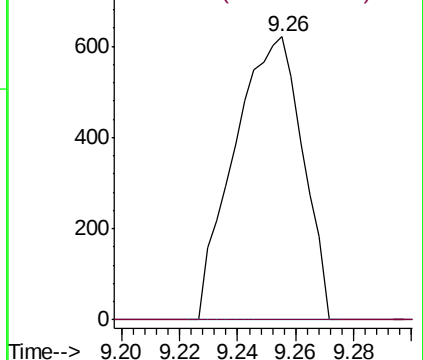
63 100

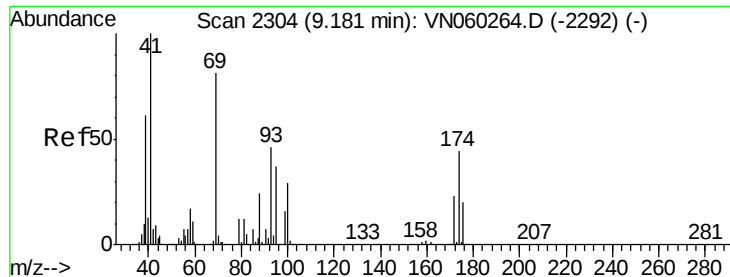
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060264.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060264.D (-2258) (-)

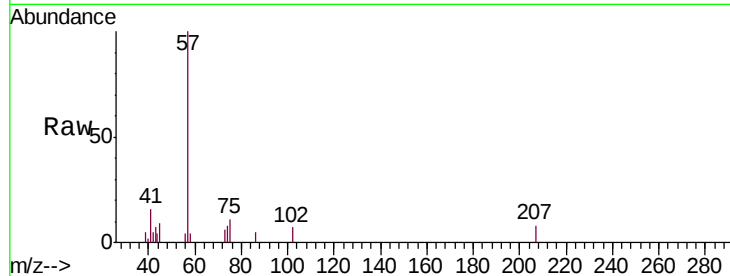




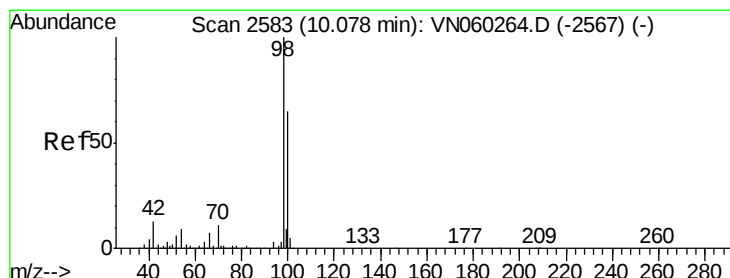
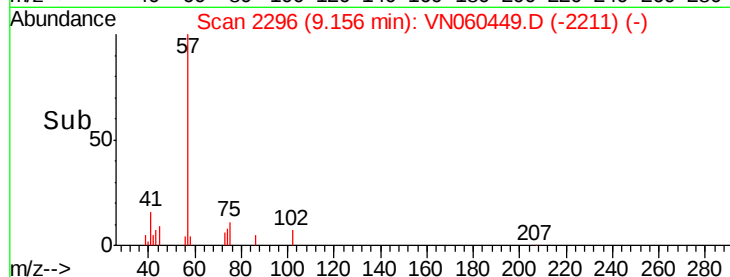
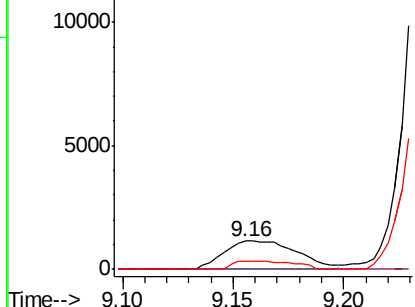
#48  
Methyl methacrylate  
Concen: 1.134 ug/l  
RT: 9.16 min Scan# 2296  
Delta R.T. -0.03 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8-SA

Tgt Ion: 41 Resp: 2665  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.7 100.1#  
39 0.0 50.1 75.1#

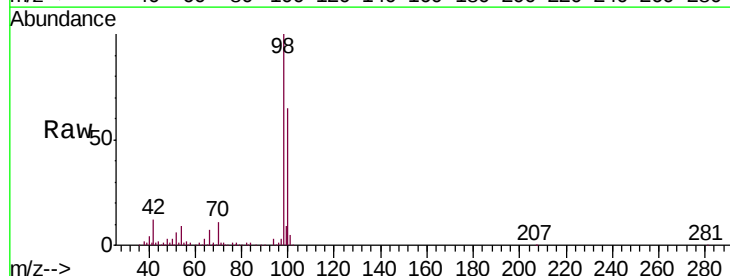


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

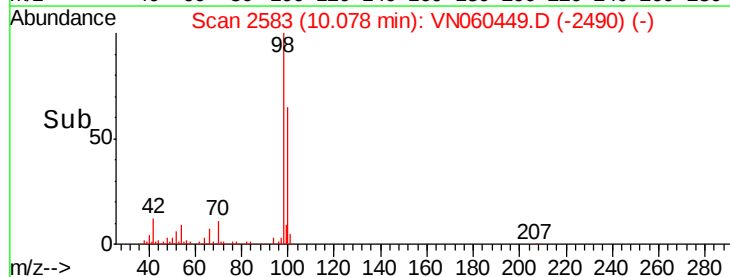
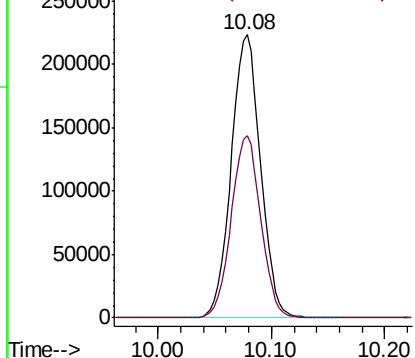


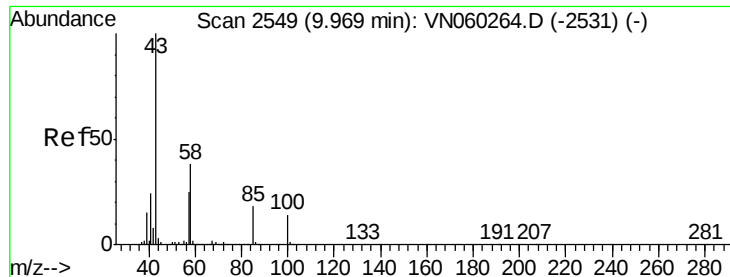
#50  
Toluene-d8  
Concen: 52.690 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. -0.00 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

Tgt Ion: 98 Resp: 403709  
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

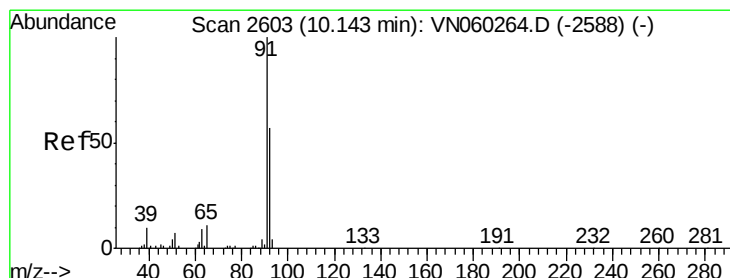
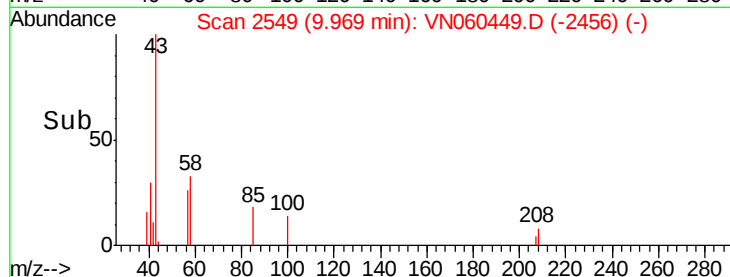
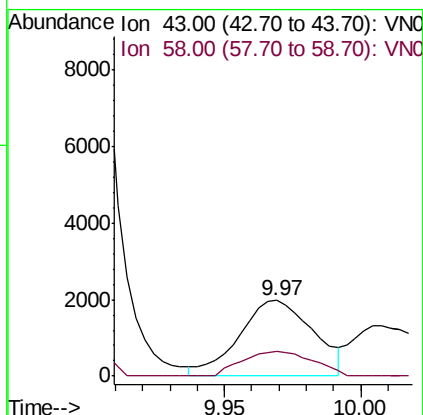
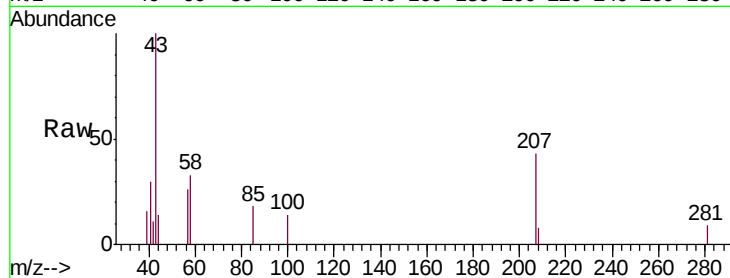




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.279 ug/l  
 RT: 9.97 min Scan# 2549  
 Delta R.T. -0.00 min  
 Lab File: VN060449.D  
 Acq: 11 Mar 2020 14:49

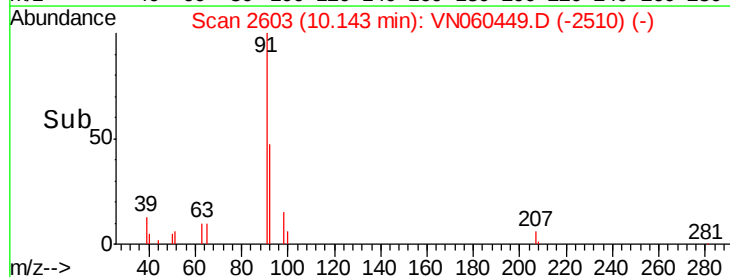
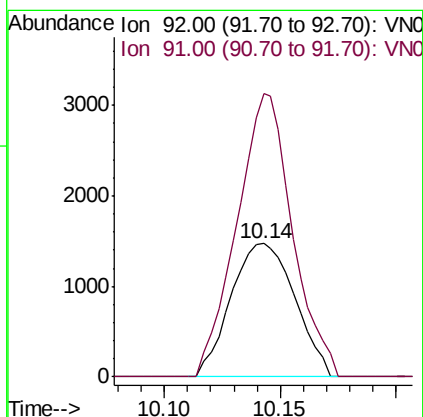
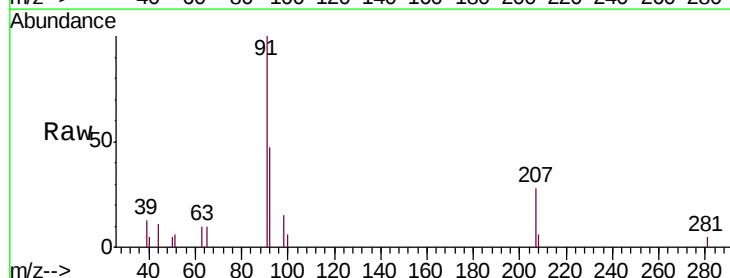
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TP-8-SA

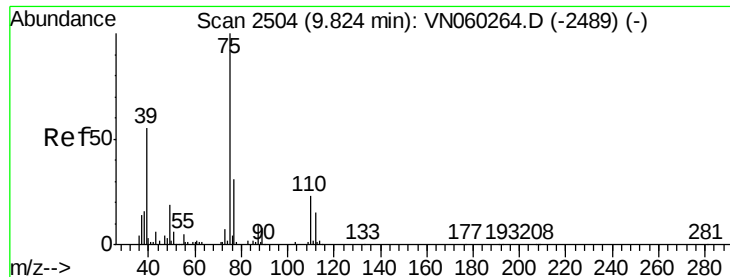
Tgt Ion: 43 Resp: 3737  
 Ion Ratio Lower Upper  
 43 100  
 58 31.5 30.9 46.3



#52  
 Toluene  
 Concen: 0.497 ug/l  
 RT: 10.14 min Scan# 2603  
 Delta R.T. -0.00 min  
 Lab File: VN060449.D  
 Acq: 11 Mar 2020 14:49

Tgt Ion: 92 Resp: 2822  
 Ion Ratio Lower Upper  
 92 100  
 91 184.7 138.1 207.1





#54

cis-1,3-Dichloropropene

Concen: 5.716 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampleId :

TP-8-SA

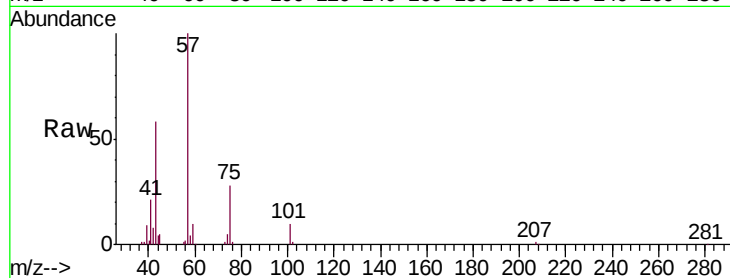
Tgt Ion: 75 Resp: 22656

Ion Ratio Lower Upper

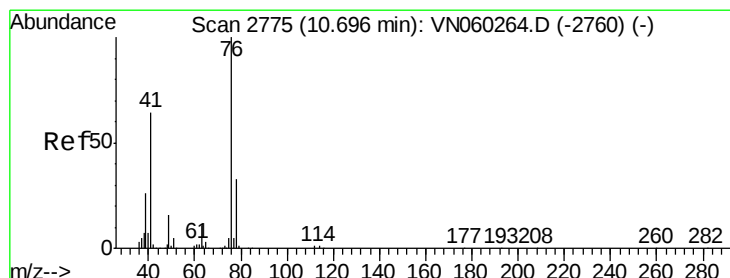
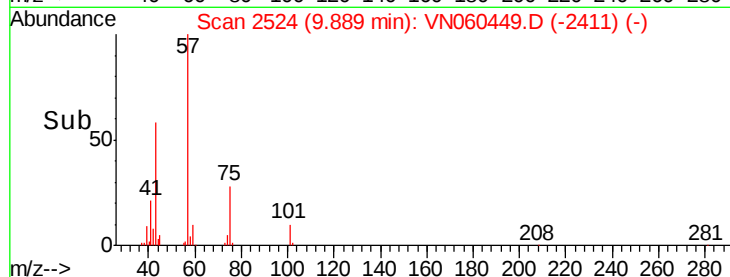
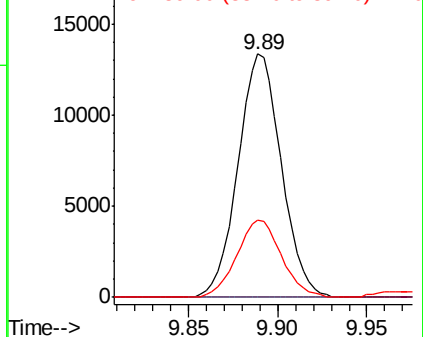
75 100

77 0.0 24.8 37.2#

39 31.8 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 76.90 (76.60 to 77.60): VNO  
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 0.957 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060449.D

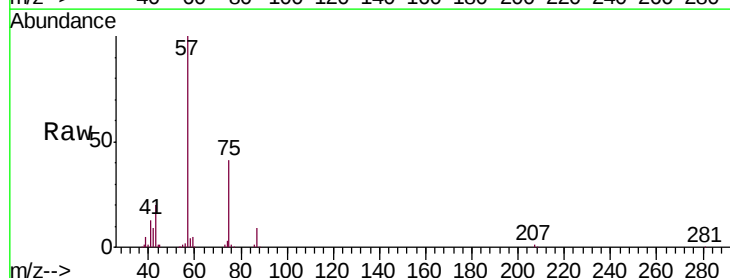
Acq: 11 Mar 2020 14:49

Tgt Ion: 76 Resp: 3567

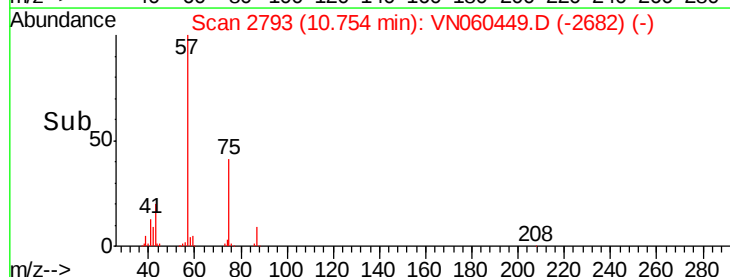
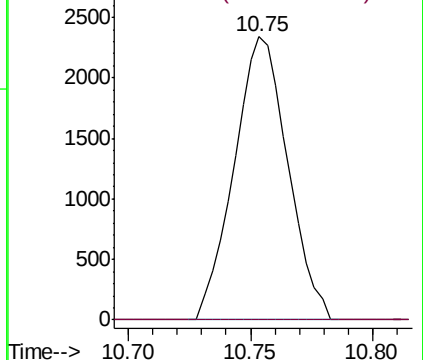
Ion Ratio Lower Upper

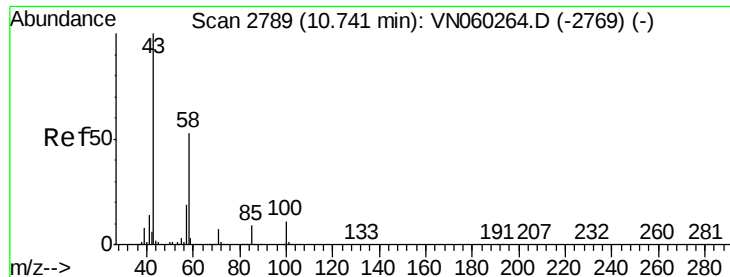
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO  
Ion 77.90 (77.60 to 78.60): VNO

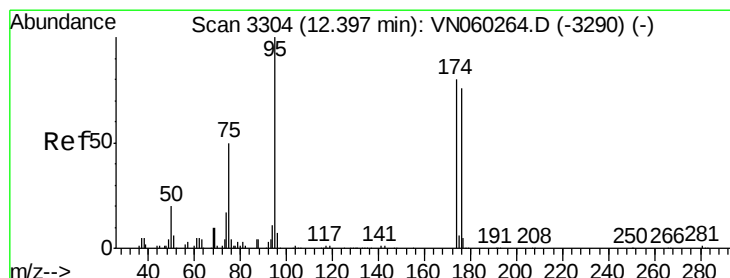
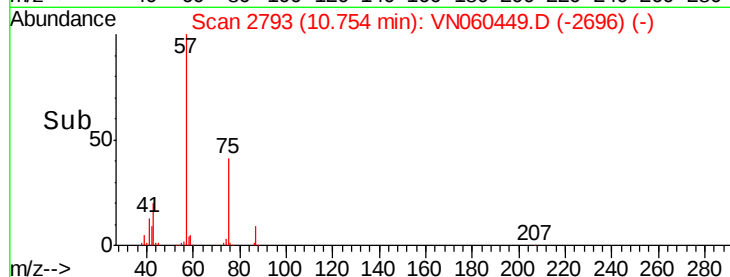
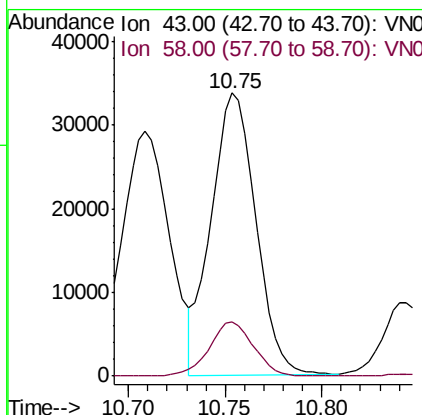
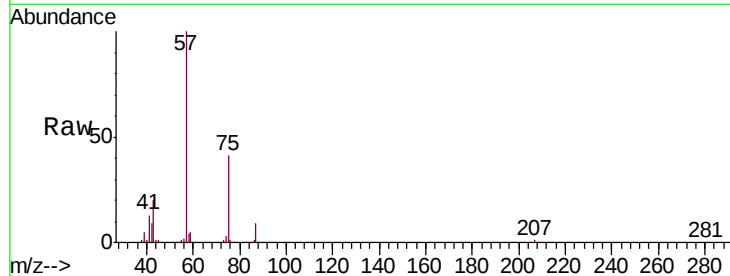




#59  
2-Hexanone  
Concen: 25.310 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.01 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

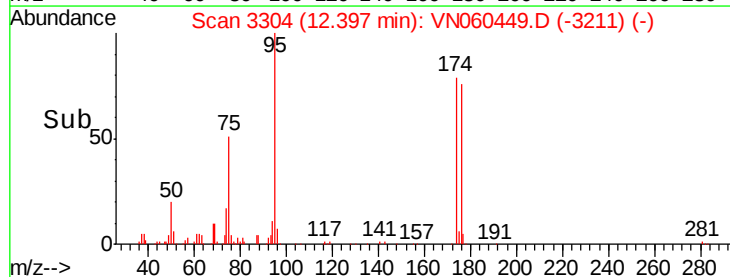
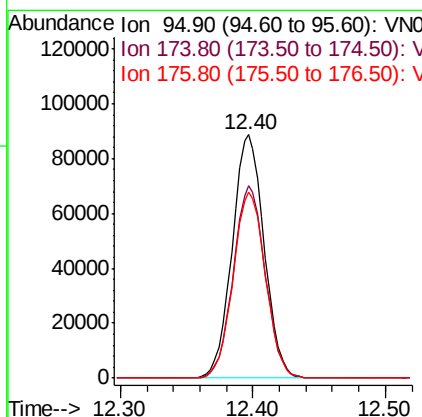
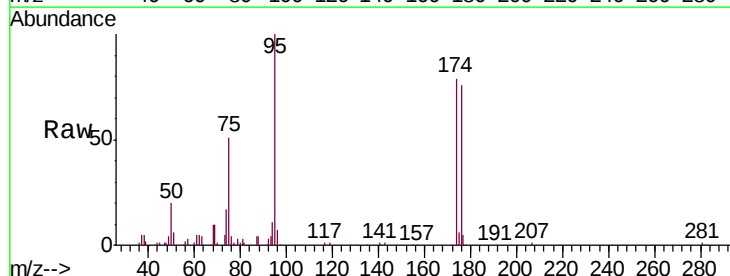
Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-8-SA

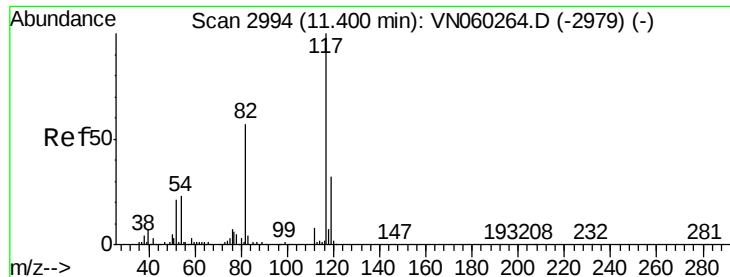
Tgt Ion: 43 Resp: 54290  
Ion Ratio Lower Upper  
43 100  
58 18.9 26.5 79.5#



#62  
4-Bromofluorobenzene  
Concen: 50.891 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. -0.00 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

Tgt Ion: 95 Resp: 147811  
Ion Ratio Lower Upper  
95 100  
174 79.2 0.0 159.2  
176 77.2 0.0 153.8

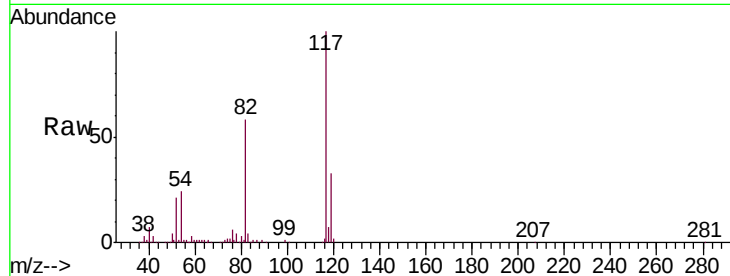




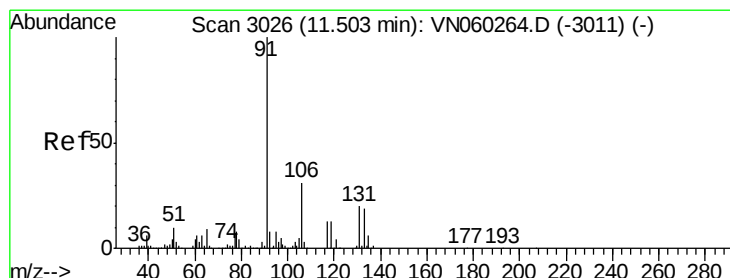
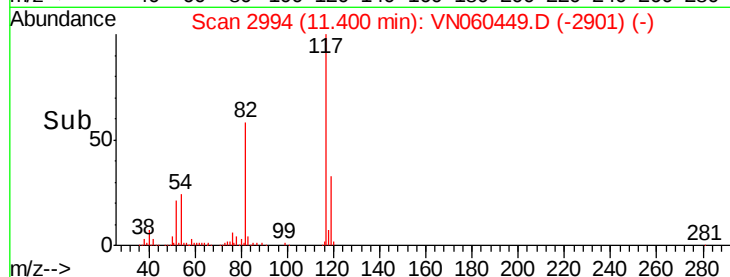
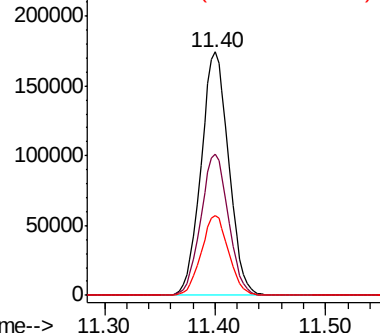
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8-SA

Tgt Ion: 117 Resp: 302822  
Ion Ratio Lower Upper  
117 100  
82 58.2 45.8 68.6  
119 32.8 25.8 38.8

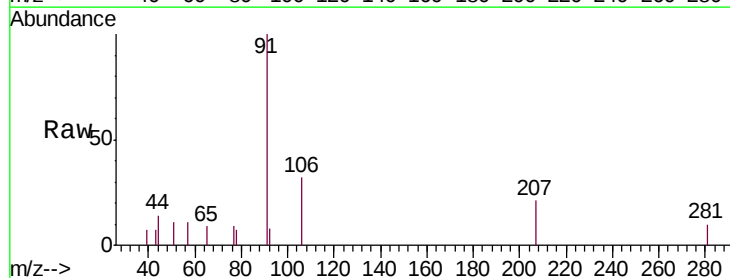


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 118.90 (118.60 to 119.60): V

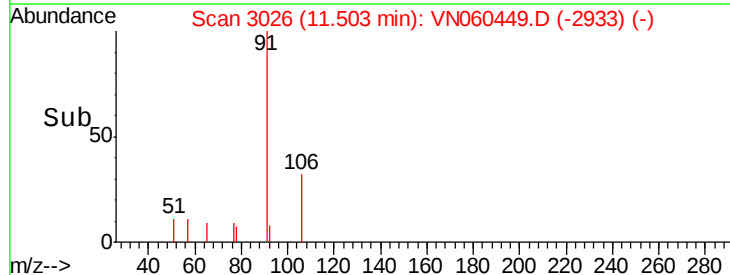
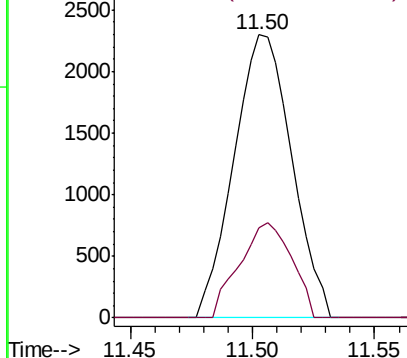


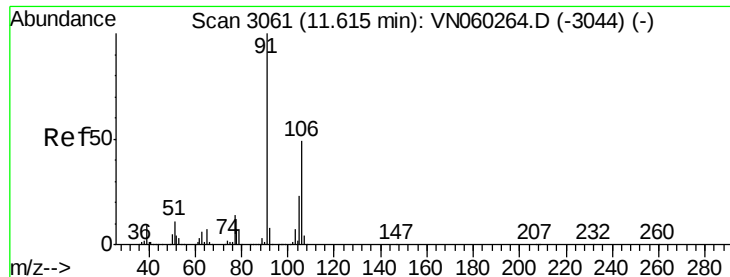
#67  
Ethyl Benzene  
Concen: 0.339 ug/l  
RT: 11.50 min Scan# 3026  
Delta R.T. -0.00 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

Tgt Ion: 91 Resp: 3776  
Ion Ratio Lower Upper  
91 100  
106 31.7 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VN  
Ion 106.00 (105.70 to 106.70): V

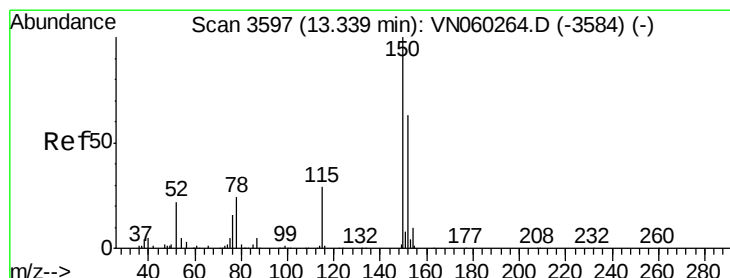
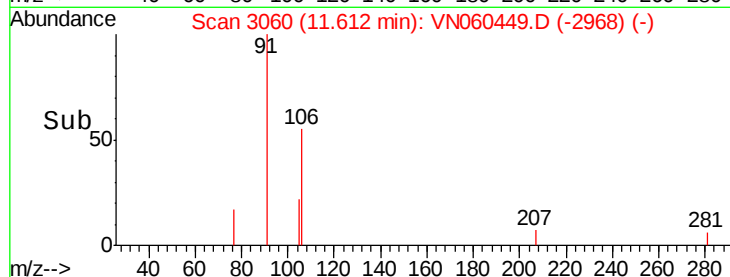
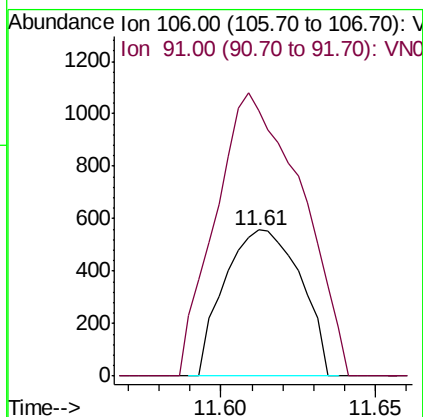
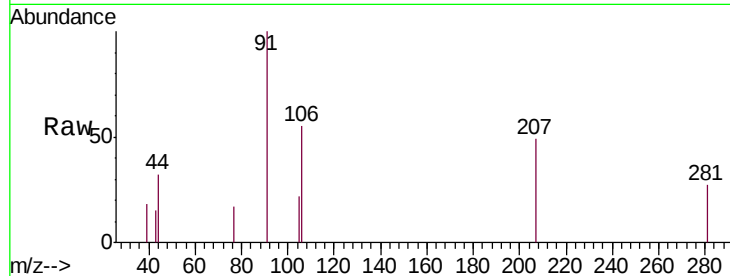




#68  
m/p-Xylenes  
Concen: 0.228 ug/l  
RT: 11.61 min Scan# 3060  
Delta R.T. -0.00 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

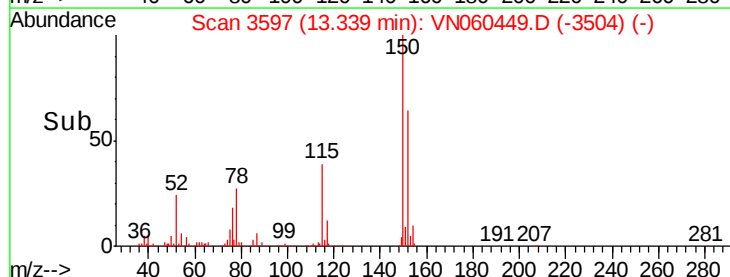
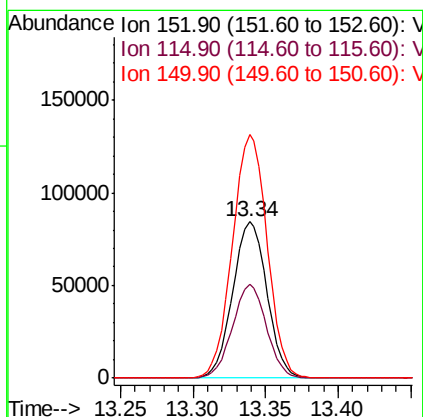
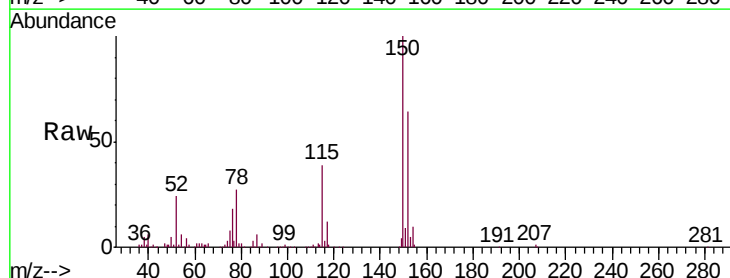
Instrument :  
MSVOA\_N  
ClientSampled :  
TP-8-SA

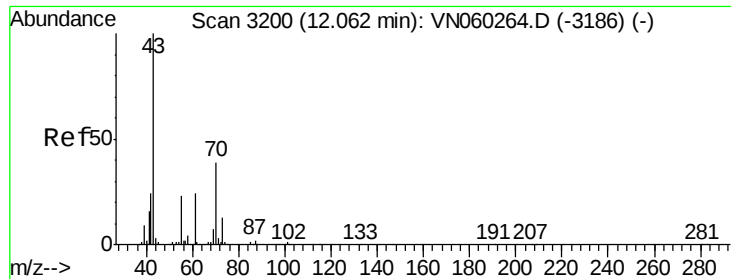
Tgt Ion:106 Resp: 956  
Ion Ratio Lower Upper  
106 100  
91 218.4 164.5 246.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. -0.00 min  
Lab File: VN060449.D  
Acq: 11 Mar 2020 14:49

Tgt Ion:152 Resp: 138208  
Ion Ratio Lower Upper  
152 100  
115 59.4 30.0 90.0  
150 158.0 0.0 349.6





#74

N-amyI acetate

Concen: 0.504 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampleId :

TP-8-SA

Tgt Ion: 43 Resp: 2255

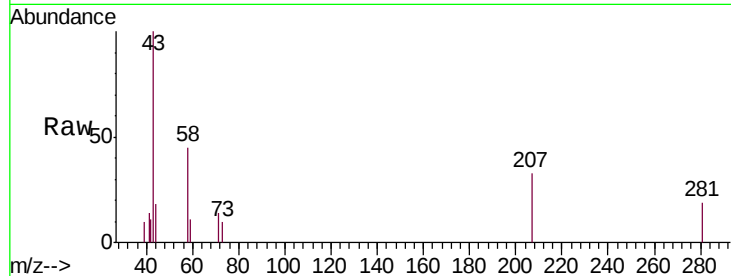
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

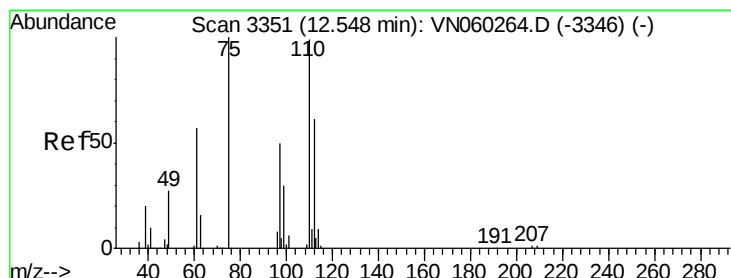
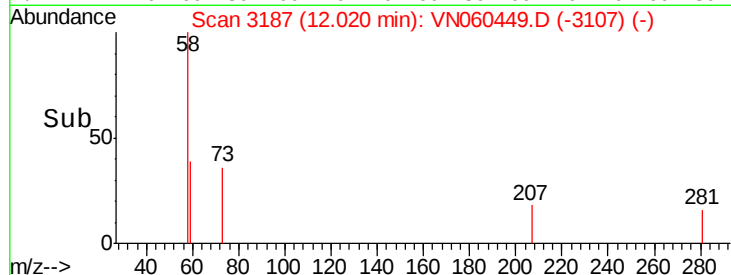
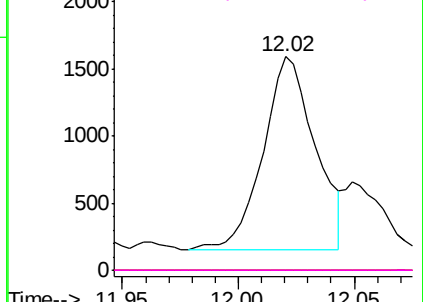


Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-3186) (-)

Ion 70.00 (69.70 to 70.70): VN060264.D (-3186) (-)

Ion 55.00 (54.70 to 55.70): VN060264.D (-3186) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-3186) (-)



#76

1,2,3-Trichloropropane

Concen: 24.888 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060449.D

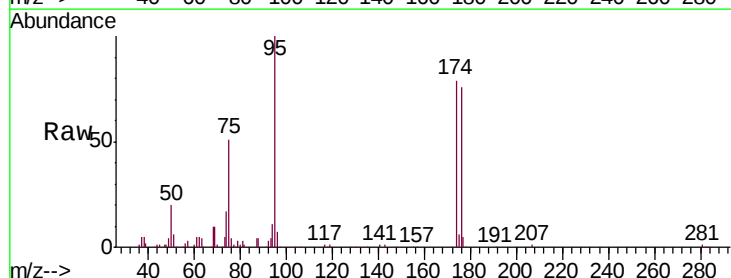
Acq: 11 Mar 2020 14:49

Tgt Ion: 75 Resp: 75469

Ion Ratio Lower Upper

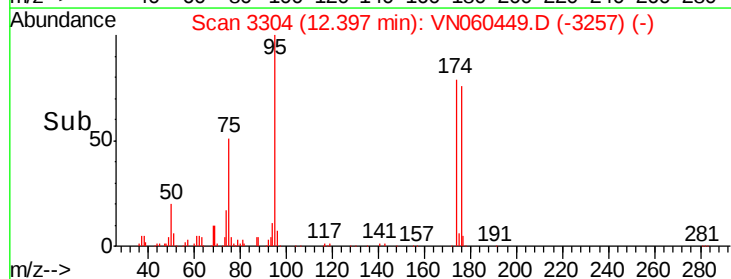
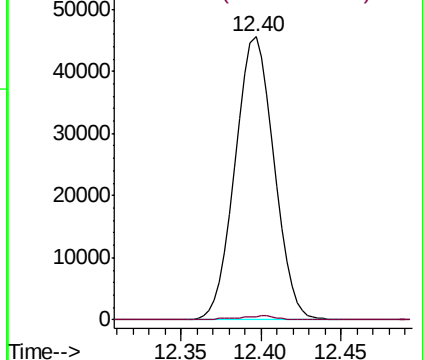
75 100

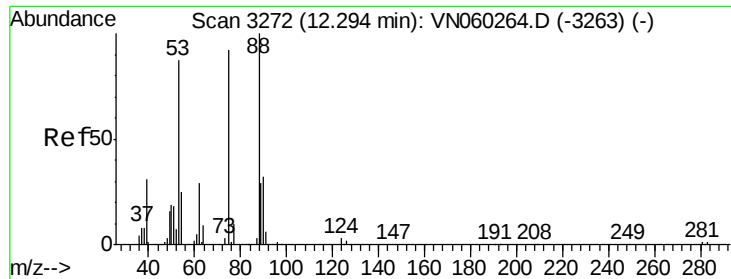
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060264.D (-3346) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.704 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060449.D

Acq: 11 Mar 2020 14:49

Instrument :

MSVOA\_N

ClientSampleId :

TP-8-SA

Tgt Ion: 75 Resp: 75469

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#

