

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092820\  
 Data File : VN063711.D  
 Acq On : 28 Sep 2020 17:33  
 Operator : JC/MD  
 Sample : L4136-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PAV-B26-092420-18-19

Quant Time: Sep 29 00:41:03 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 207322   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 393990   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 413288   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 173985   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 183825   | 52.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.18% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 133186   | 48.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.66%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 520305   | 50.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.46% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 200583   | 53.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.70% |          |

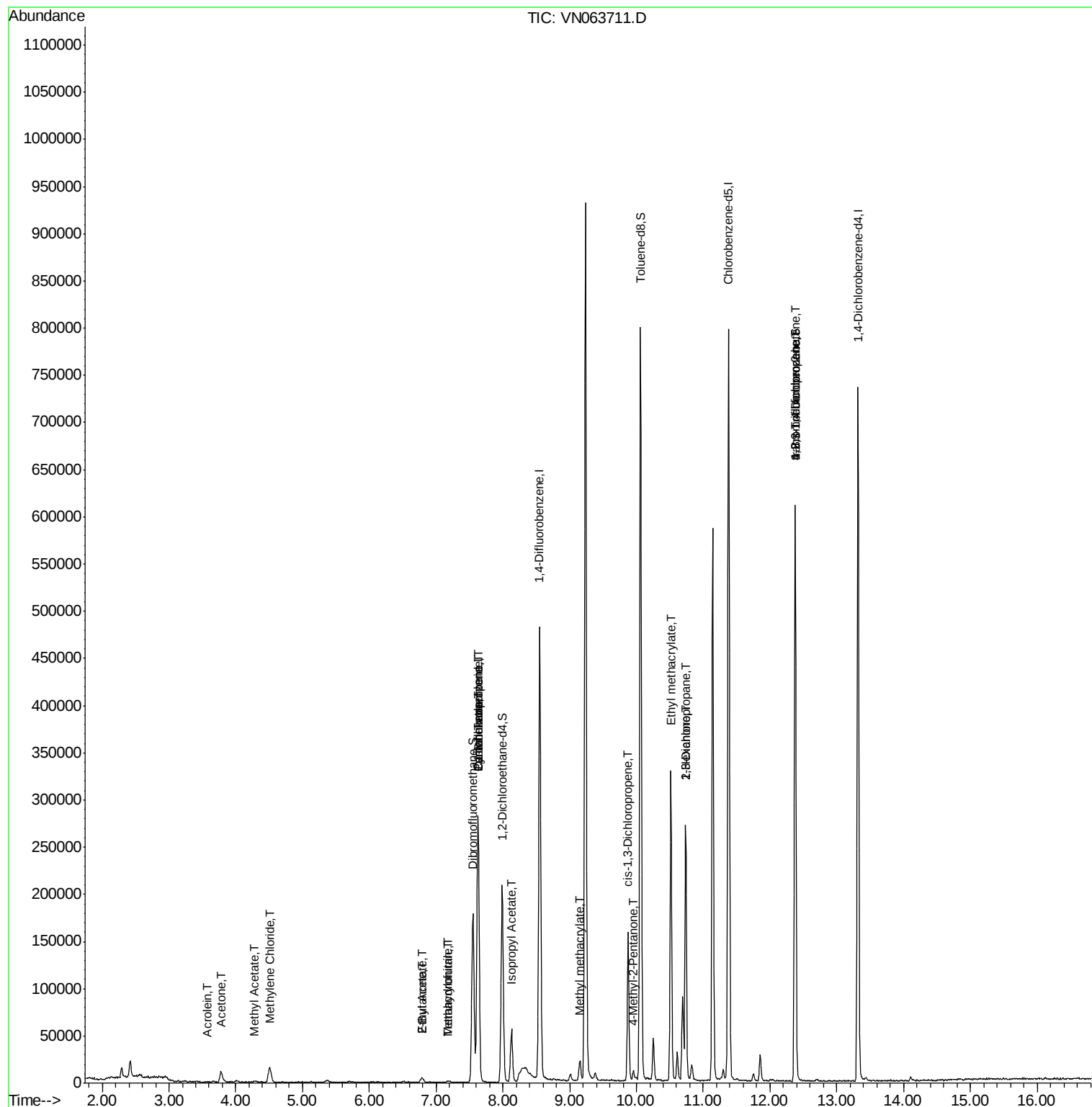
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acrolein                   | 3.58  | 56   | 63       | 0.348  | ug/l # | 1      |
| 16) Acetone                    | 3.78  | 43   | 19915    | 17.558 | ug/l   | 94     |
| 18) Methyl Acetate             | 4.27  | 43   | 973      | 0.338  | ug/l # | 61     |
| 20) Methylene Chloride         | 4.51  | 84   | 10993    | 3.825  | ug/l   | 96     |
| 25) 2-Butanone                 | 6.80  | 43   | 3195     | 1.832  | ug/l   | 97     |
| 29) Tetrahydrofuran            | 7.17  | 42   | 989      | 0.830  | ug/l # | 44     |
| 31) Cyclohexane                | 7.62  | 56   | 5483     | 1.125  | ug/l # | 39     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 20028    | 4.772  | ug/l # | 46     |
| 37) Ethyl Acetate              | 6.80  | 43   | 3195     | 0.776  | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 22990    | 5.366  | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.16  | 41   | 484      | 0.261  | ug/l # | 100    |
| 43) Isopropyl Acetate          | 8.13  | 43   | 69330    | 9.412  | ug/l   | 99     |
| 48) Methyl methacrylate        | 9.14  | 41   | 4343     | 1.200  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.96  | 43   | 8408     | 2.039  | ug/l # | 84     |
| 54) cis-1,3-Dichloropropene    | 9.87  | 75   | 24516    | 4.672  | ug/l # | 67     |
| 56) Ethyl methacrylate         | 10.52 | 69   | 1473     | 0.330  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.74 | 76   | 2612     | 0.506  | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.74 | 43   | 41308    | 13.826 | ug/l # | 58     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 114492   | 26.587 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 114492   | 72.891 | ug/l # | 7      |

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

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Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

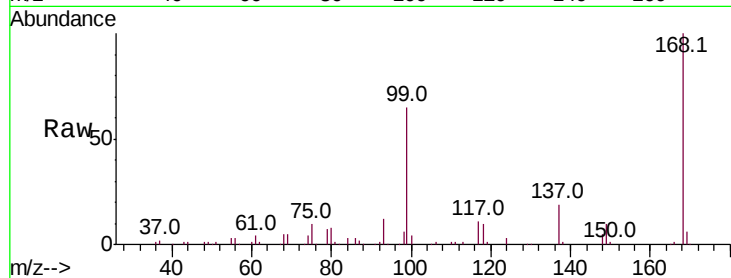
PAV-B26-092420-18-19

Tot Ion:168 Resp: 207322

Ion Ratio Lower Upper

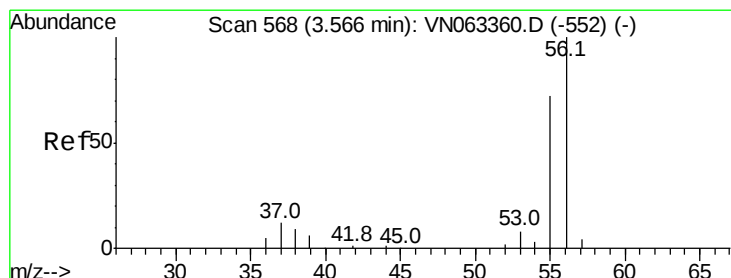
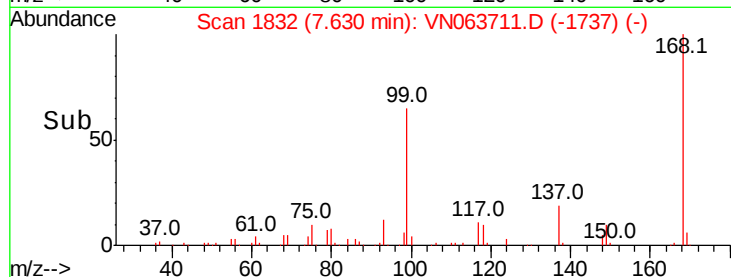
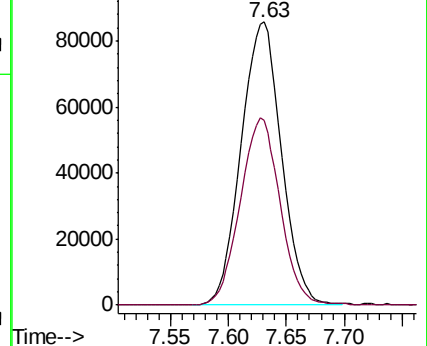
168 100

99 65.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 0.348 ug/l

RT: 3.58 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN063711.D

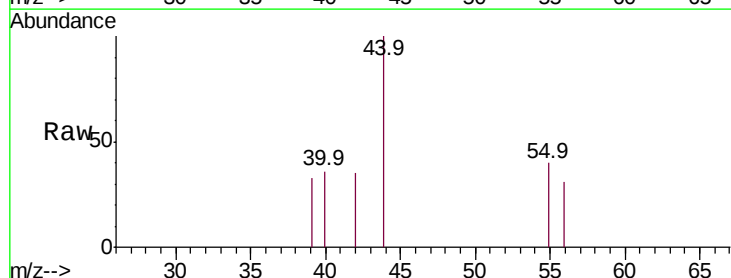
Acq: 28 Sep 2020 17:33

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

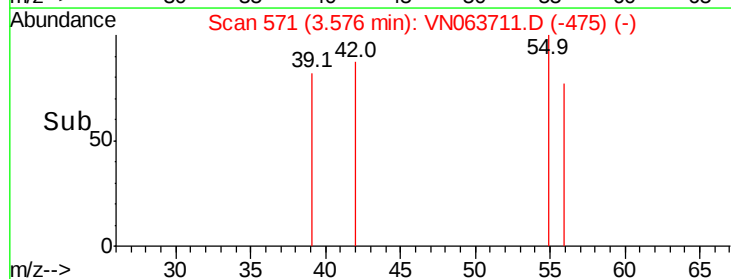
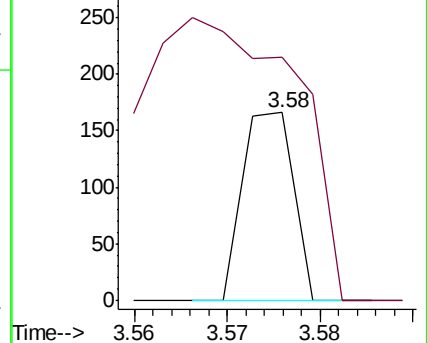
56 100

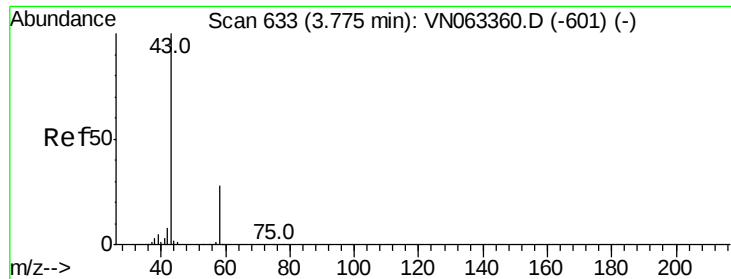
55 457.1 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO





#16

Acetone

Concen: 17.558 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

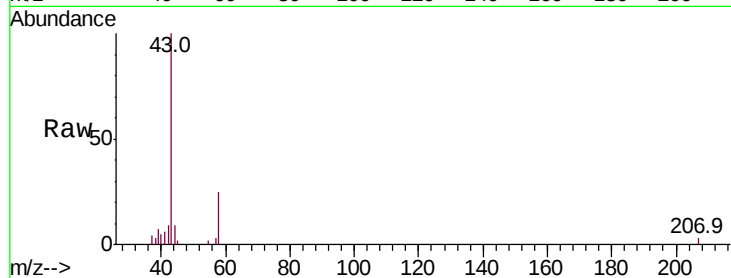
PAV-B26-092420-18-19

Tot Ion: 43 Resp: 19915

Ion Ratio Lower Upper

43 100

58 24.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)

3.78

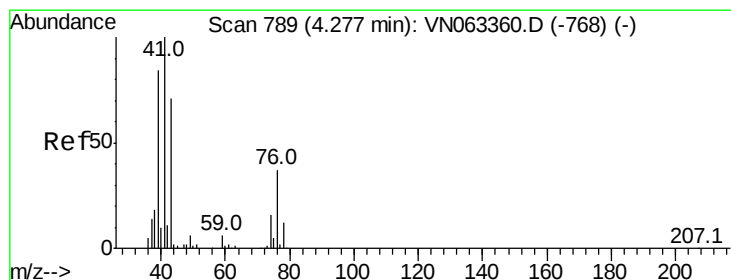
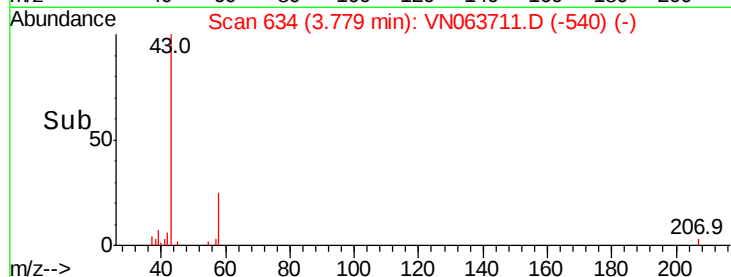
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 0.338 ug/l

RT: 4.27 min Scan# 787

Delta R.T. -0.01 min

Lab File: VN063711.D

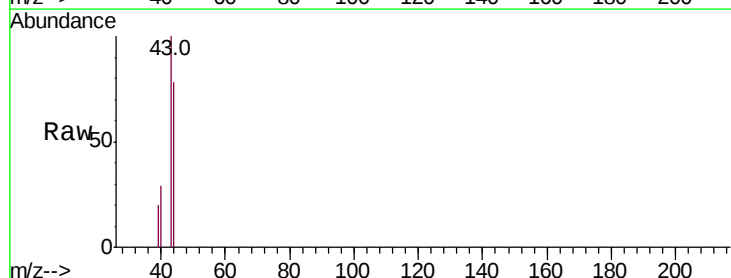
Acq: 28 Sep 2020 17:33

Tgt Ion: 43 Resp: 973

Ion Ratio Lower Upper

43 100

74 3.2 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063360.D (-768) (-)

4.27

1000

800

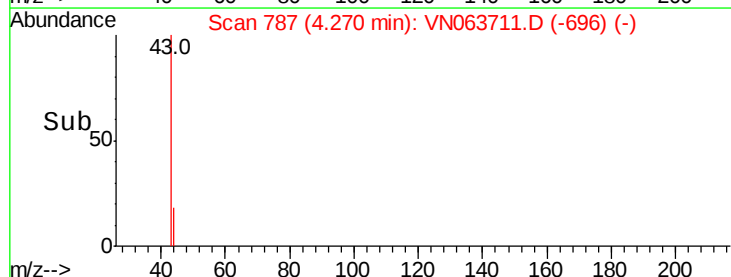
600

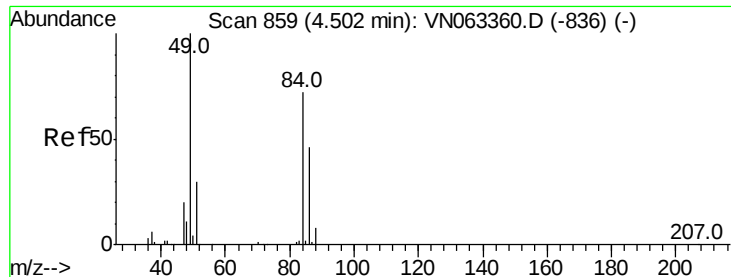
400

200

0

Time-->





#20

Methylene Chloride

Concen: 3.825 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

PAV-B26-092420-18-19

Tot Ion: 84 Resp: 10993

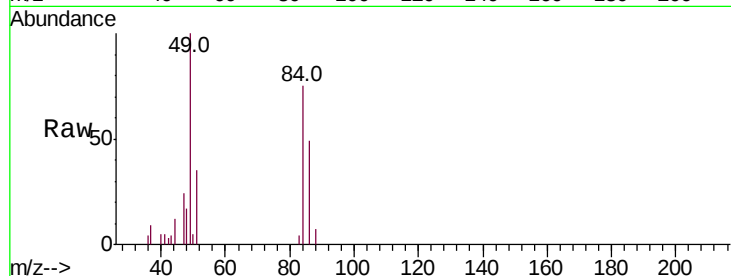
Ion Ratio Lower Upper

84 100

49 132.8 110.7 166.1

51 46.2 32.9 49.3

86 65.1 51.1 76.7

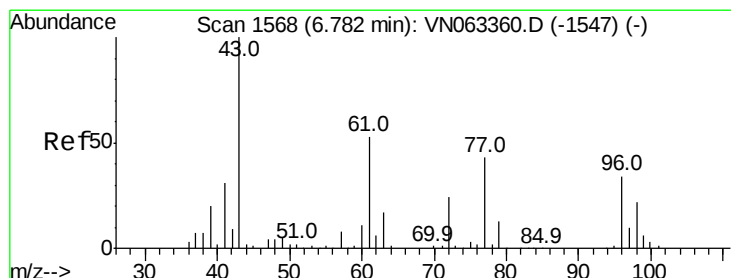
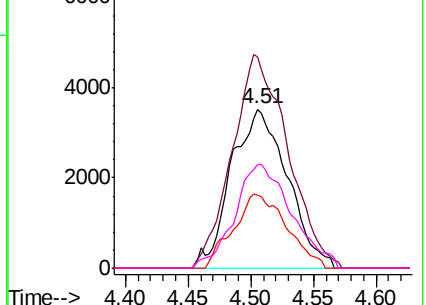
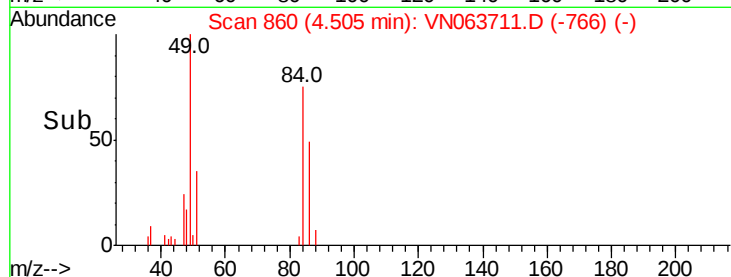


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 1.832 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN063711.D

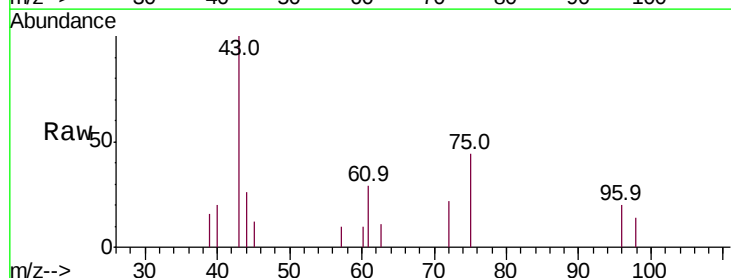
Acq: 28 Sep 2020 17:33

Tgt Ion: 43 Resp: 3195

Ion Ratio Lower Upper

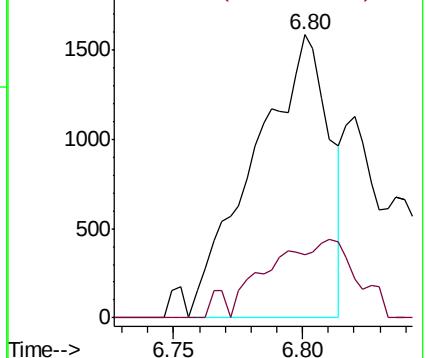
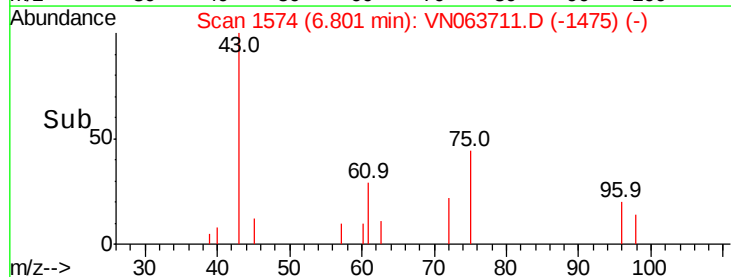
43 100

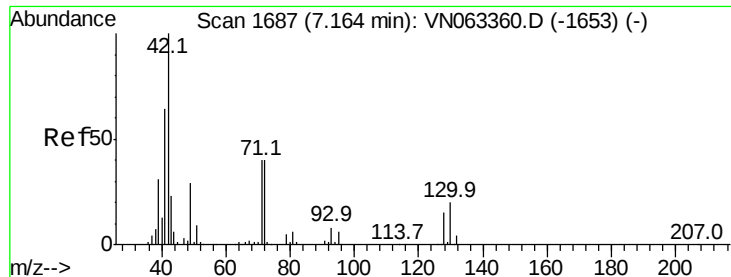
72 22.3 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.830 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

PAV-B26-092420-18-19

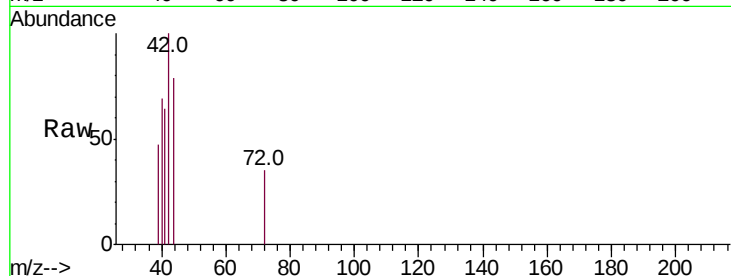
Tot Ion: 42 Resp: 989

Ion Ratio Lower Upper

42 100

72 10.0 32.1 48.1#

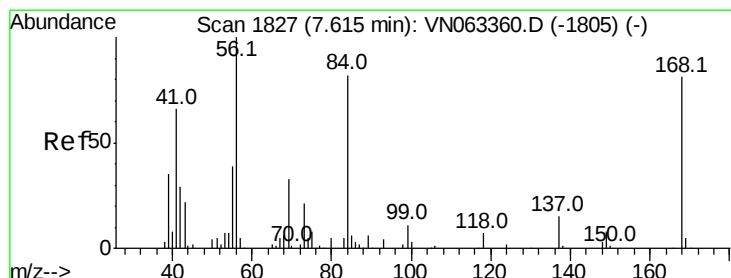
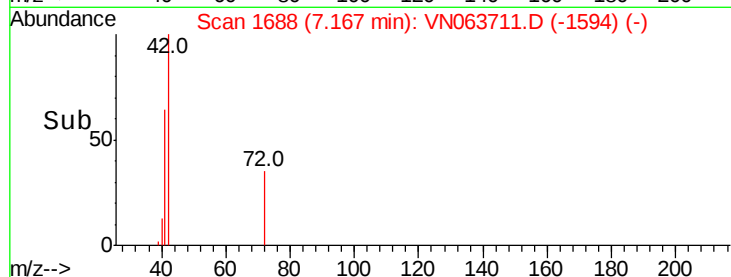
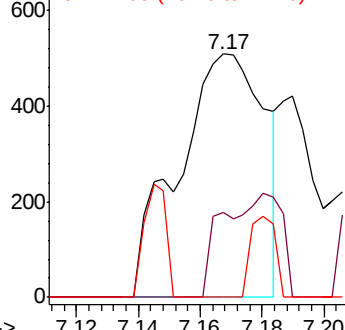
71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.125 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

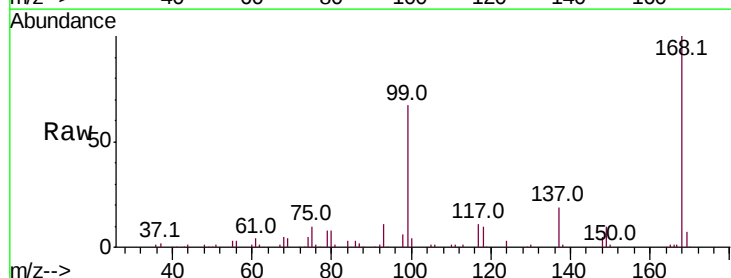
Tgt Ion: 56 Resp: 5483

Ion Ratio Lower Upper

56 100

69 127.8 26.1 39.1#

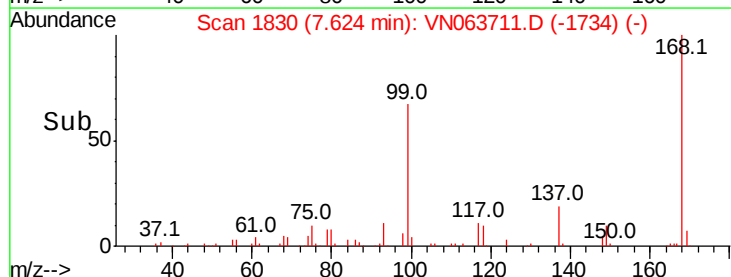
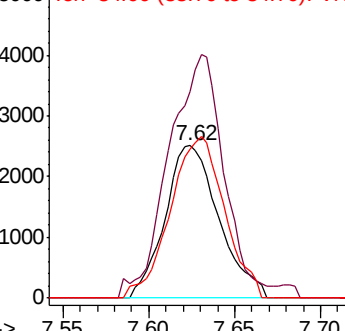
84 98.0 65.4 98.2

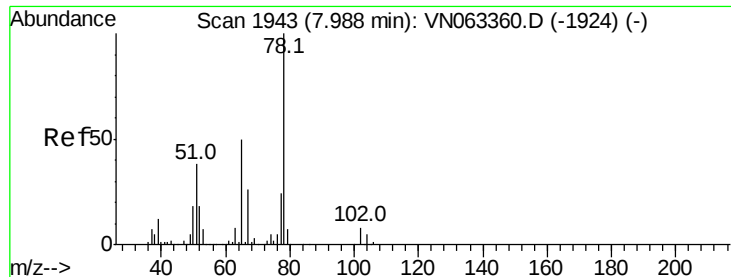


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 52.087 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

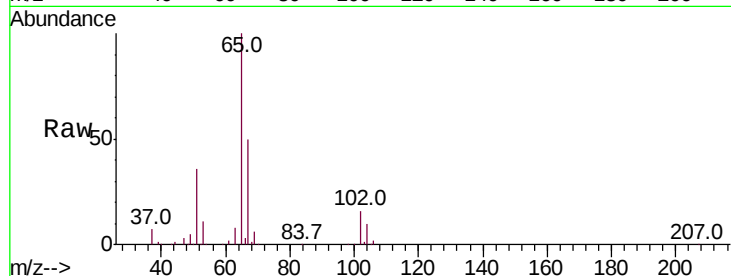
PAV-B26-092420-18-19

Tot Ion: 65 Resp: 183825

Ion Ratio Lower Upper

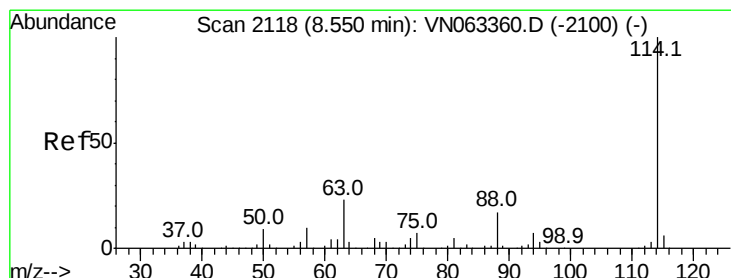
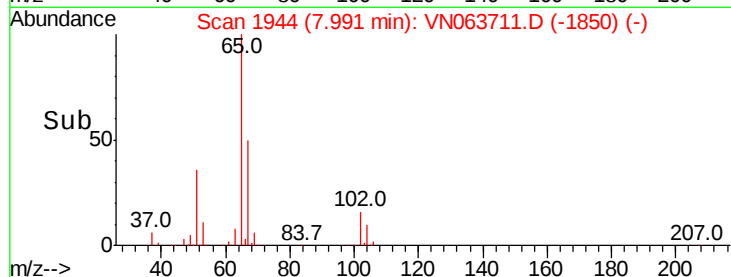
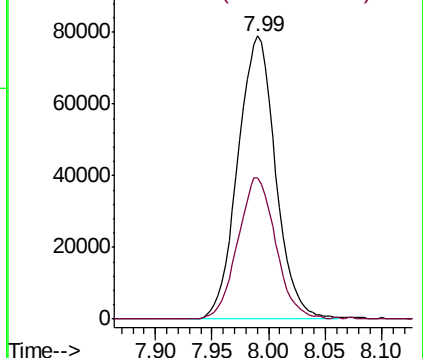
65 100

67 50.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

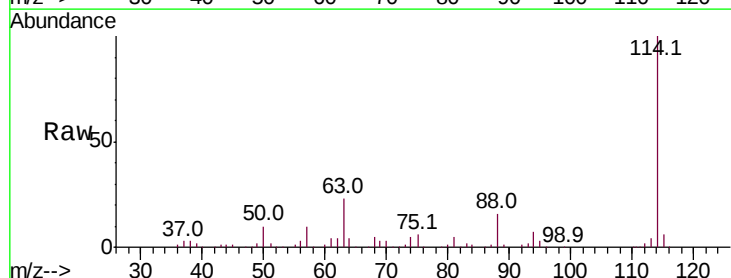
Tgt Ion: 114 Resp: 393990

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.4

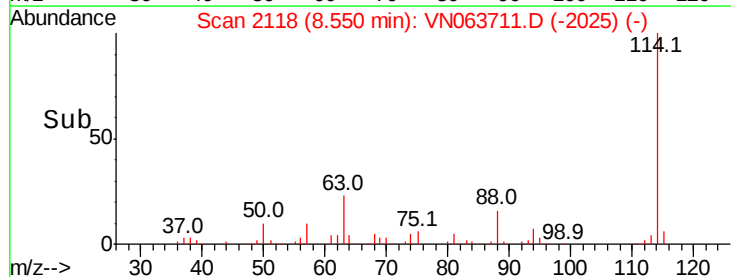
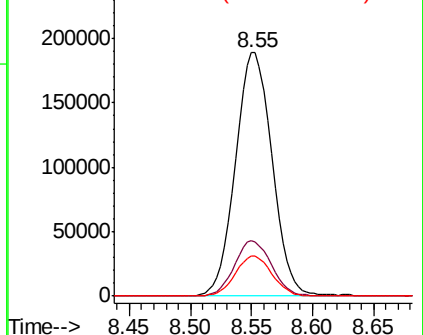
88 16.4 0.0 33.2

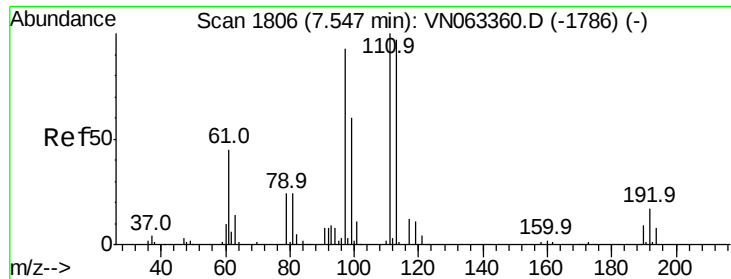


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

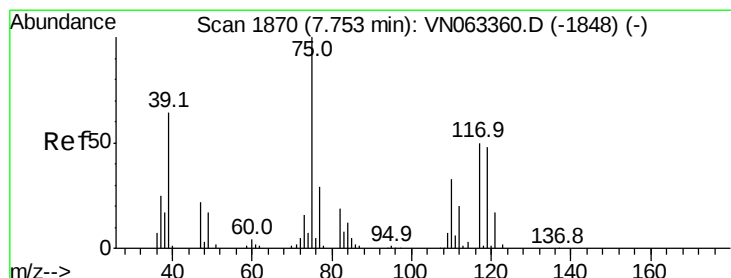
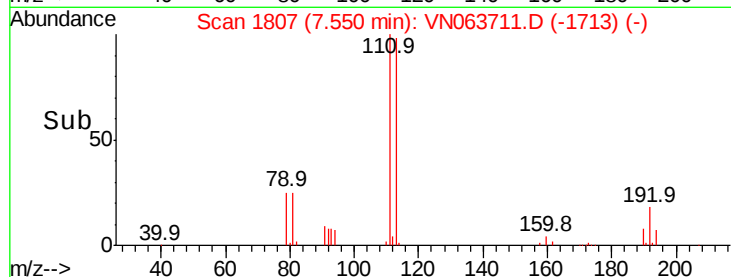
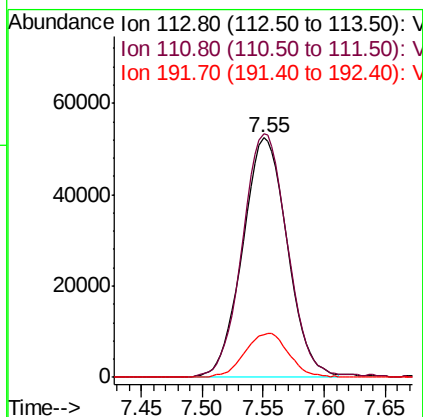
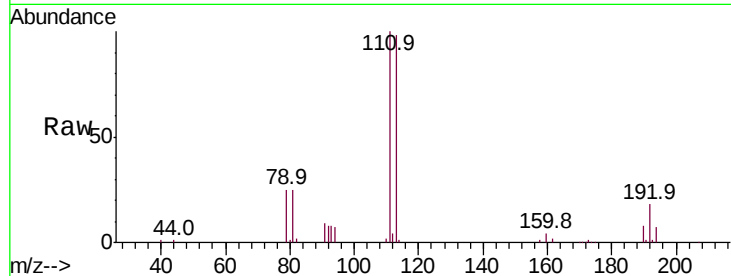




#35  
Dibromofluoromethane  
Concen: 48.831 ug/l  
RT: 7.55 min Scan# 1807  
Delta R.T. 0.00 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

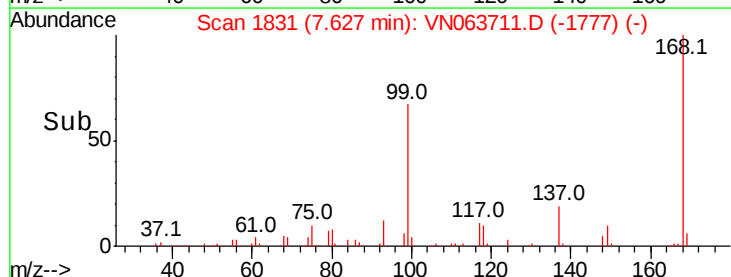
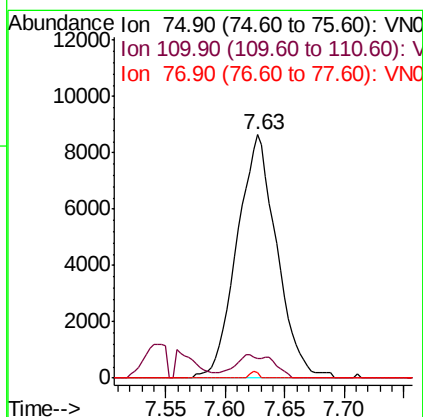
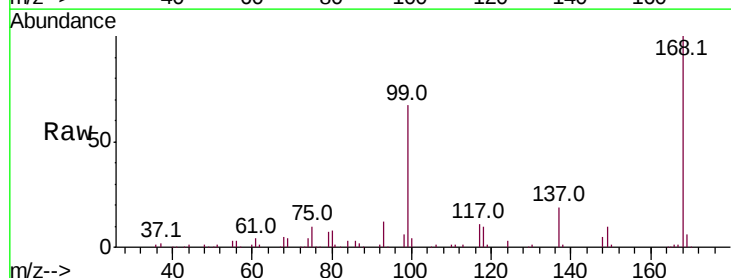
Instrument :  
MSVOA\_N  
ClientSampleId :  
PAV-B26-092420-18-19

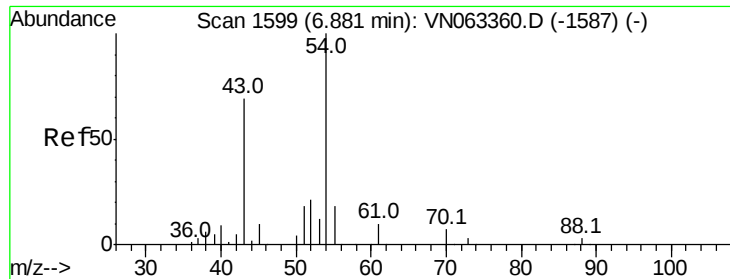
Tot Ion:113 Resp: 133186  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.9 124.3  
192 18.1 13.9 20.9



#36  
1,1-Dichloropropene  
Concen: 4.772 ug/l  
RT: 7.63 min Scan# 1831  
Delta R.T. -0.13 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

Tgt Ion: 75 Resp: 20028  
Ion Ratio Lower Upper  
75 100  
110 3.5 16.5 49.5#  
77 0.6 24.6 36.8#





#37

Ethyl Acetate

Concen: 0.776 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. -0.08 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

PAV-B26-092420-18-19

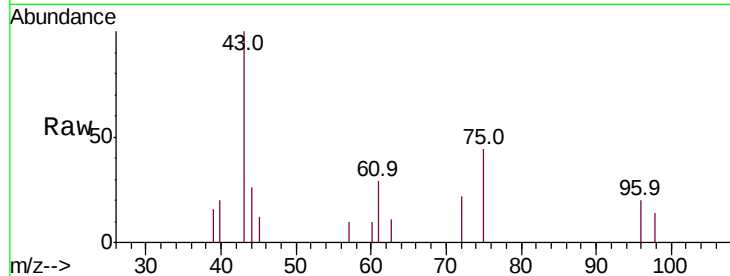
Tot Ion: 43 Resp: 3195

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

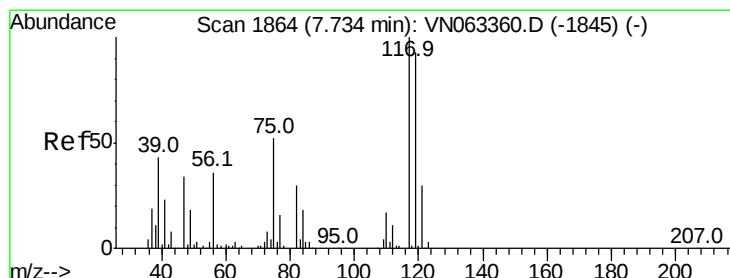
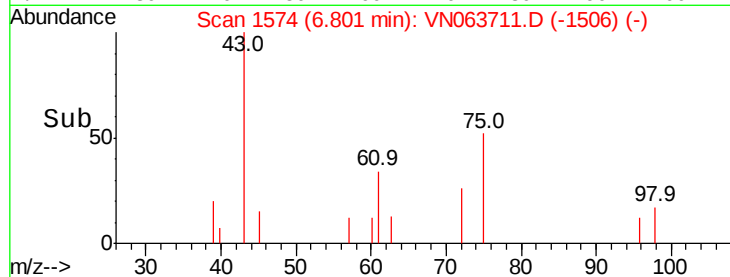
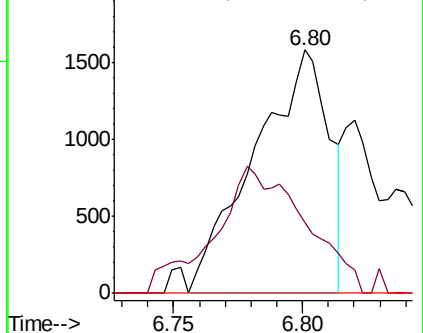
70 0.0 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VN063711.D (-1574) (-)

Ion 60.90 (60.60 to 61.60): VN063711.D (-1574) (-)

Ion 70.00 (69.70 to 70.70): VN063711.D (-1574) (-)



#38

Carbon Tetrachloride

Concen: 5.366 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

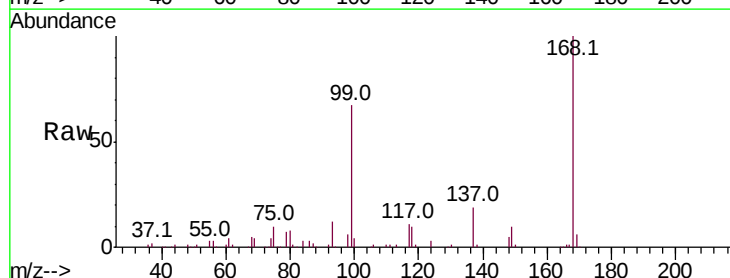
Tgt Ion: 117 Resp: 22990

Ion Ratio Lower Upper

117 100

119 5.3 74.5 111.7#

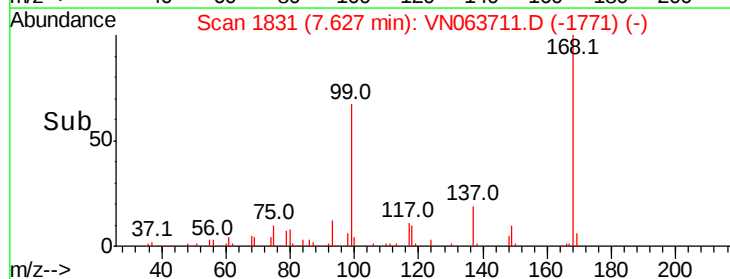
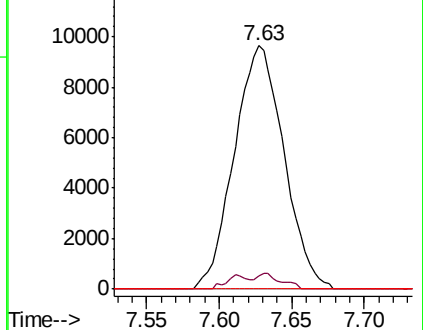
121 0.0 24.1 36.1#

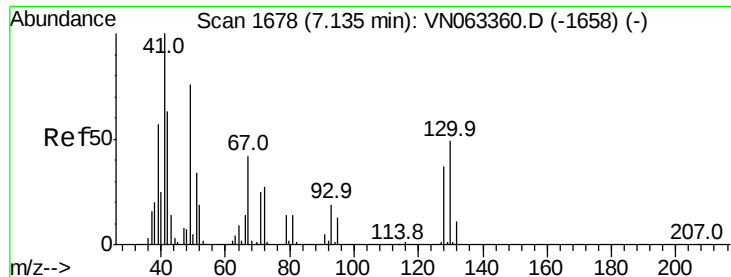


Abundance Ion 116.80 (116.50 to 117.50): VN063711.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN063711.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN063711.D (-1831) (-)

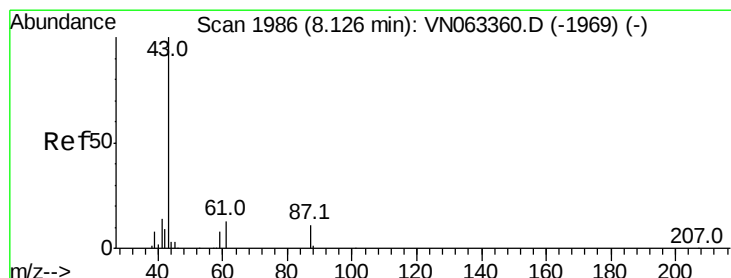
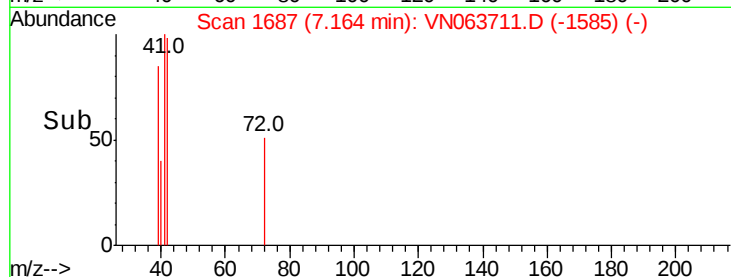
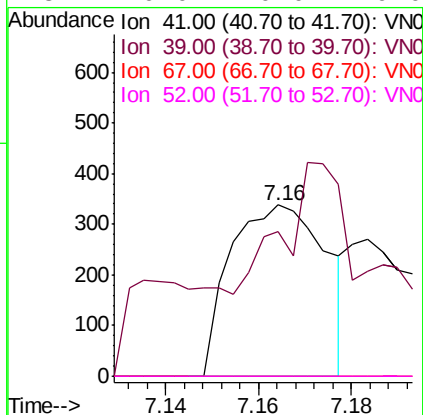
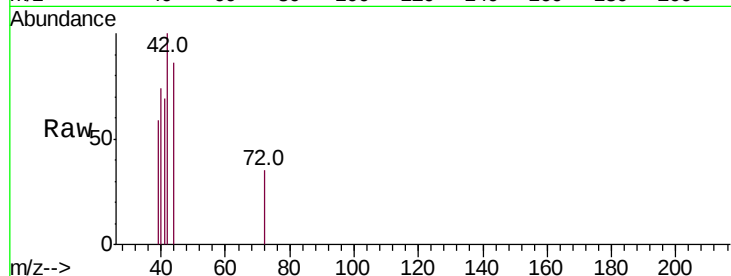




#41  
Methacrylonitrile  
Concen: 0.261 ug/l  
RT: 7.16 min Scan# 1687  
Delta R.T. 0.03 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

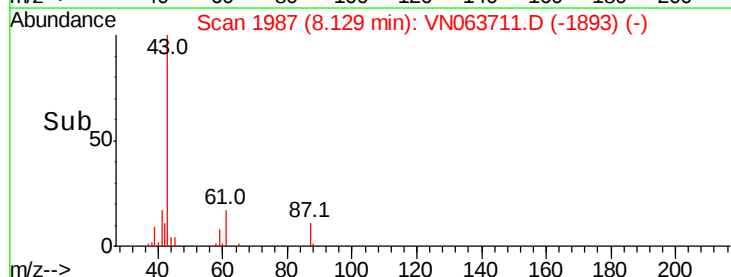
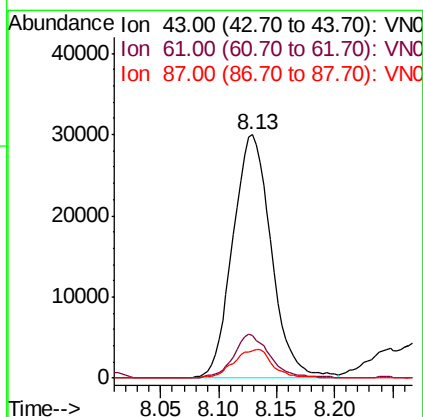
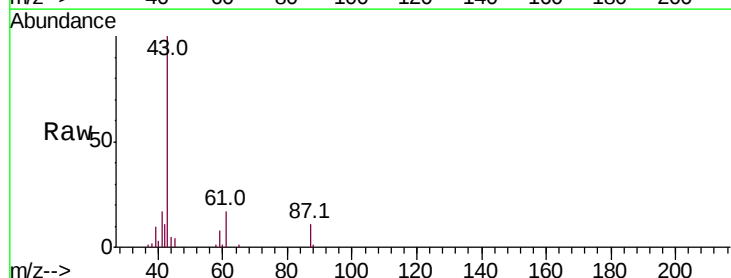
Instrument :  
MSVOA\_N  
ClientSampleId :  
PAV-B26-092420-18-19

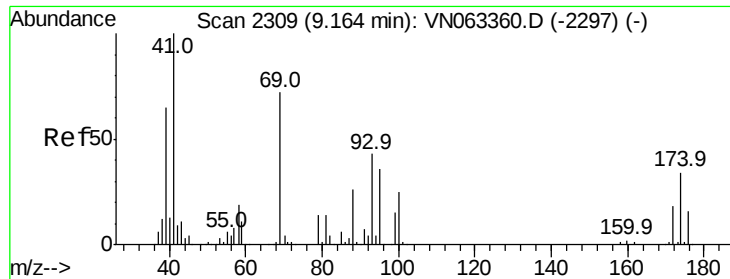
| Tot Ion: | 41    | Resp: | 484   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 49.2  | 0.0   | 0.0#  |
| 67       | 0.0   | 0.0   | 0.0   |
| 52       | 0.0   | 0.0   | 0.0   |



#43  
Isopropyl Acetate  
Concen: 9.412 ug/l  
RT: 8.13 min Scan# 1987  
Delta R.T. 0.00 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

| Tgt Ion: | 43    | Resp: | 69330 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 17.0  | 14.2  | 21.2  |
| 87       | 11.6  | 9.0   | 13.6  |

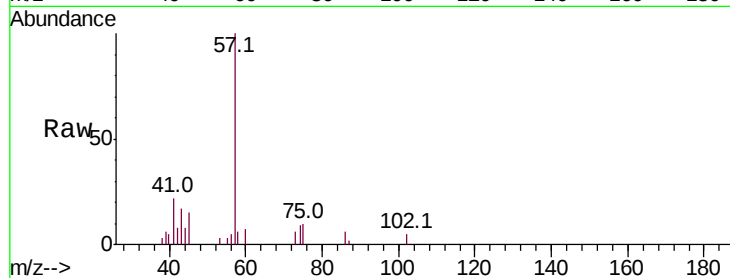




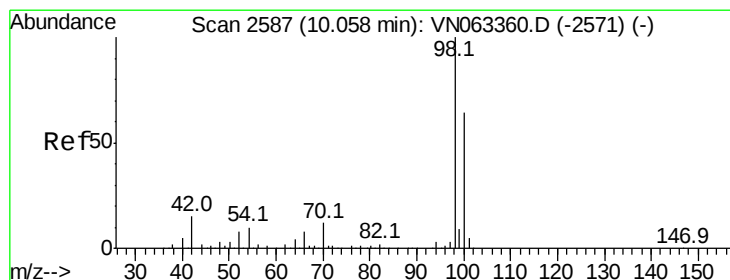
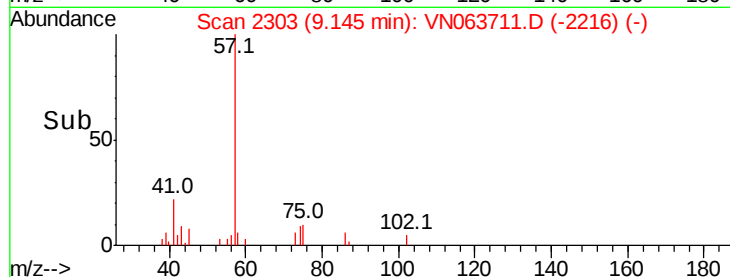
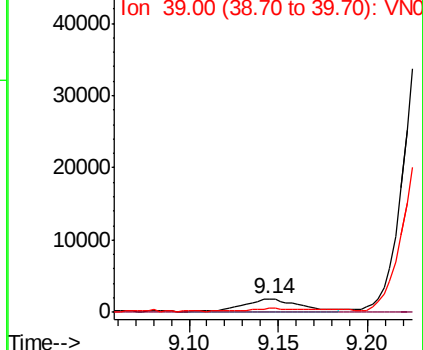
#48  
Methyl methacrylate  
Concen: 1.200 ug/l  
RT: 9.14 min Scan# 2303  
Delta R.T. -0.02 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
PAV-B26-092420-18-19

Tot Ion: 41 Resp: 4343  
Ion Ratio Lower Upper  
41 100  
69 0.0 59.3 88.9#  
39 0.0 52.9 79.3#

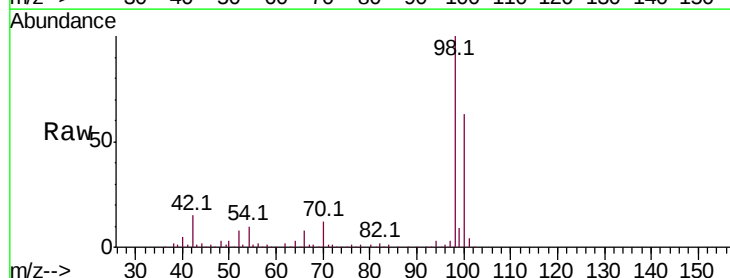


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

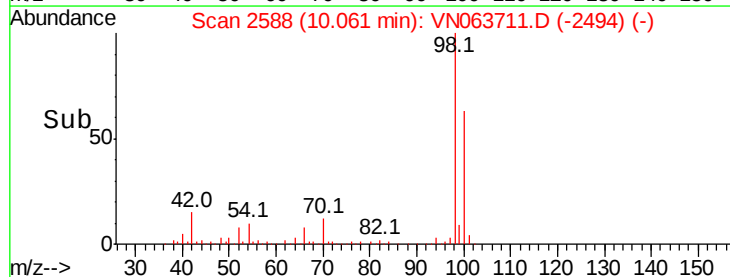
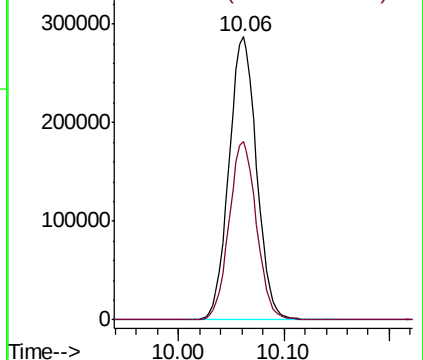


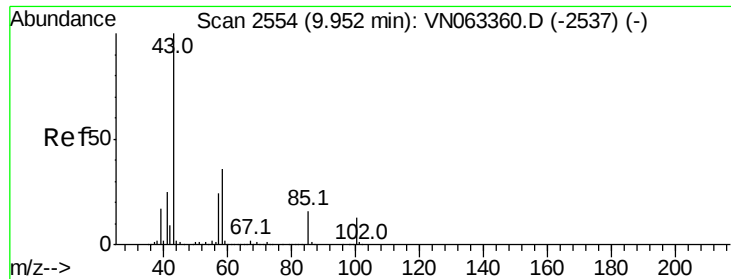
#50  
Toluene-d8  
Concen: 50.732 ug/l  
RT: 10.06 min Scan# 2588  
Delta R.T. 0.00 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

Tgt Ion: 98 Resp: 520305  
Ion Ratio Lower Upper  
98 100  
100 62.5 50.7 76.1



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: 2.039 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

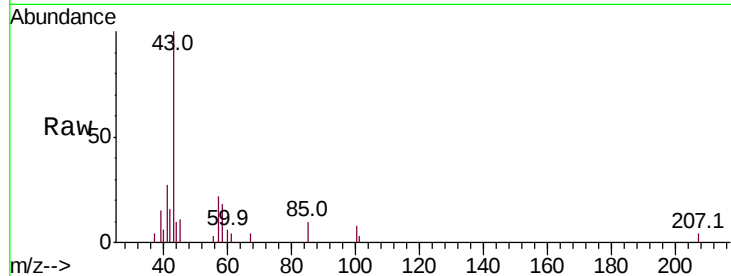
PAV-B26-092420-18-19

Tot Ion: 43 Resp: 8408

Ion Ratio Lower Upper

43 100

58 26.8 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

15000

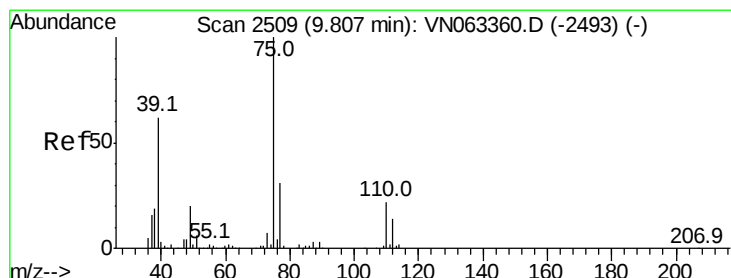
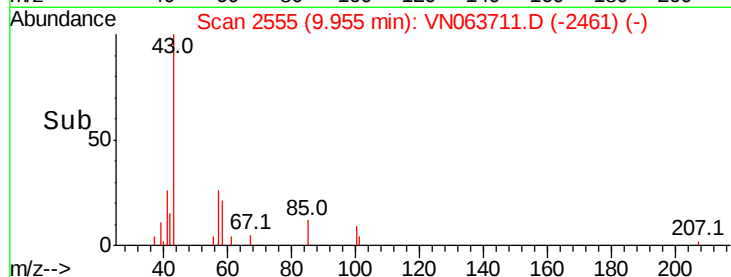
10000

5000

0

9.90 9.95 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.672 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

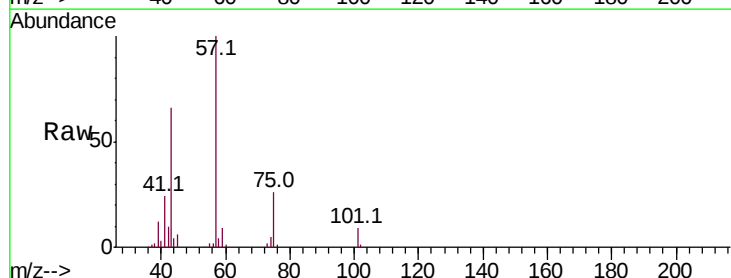
Tgt Ion: 75 Resp: 24516

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 45.4 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

20000

15000

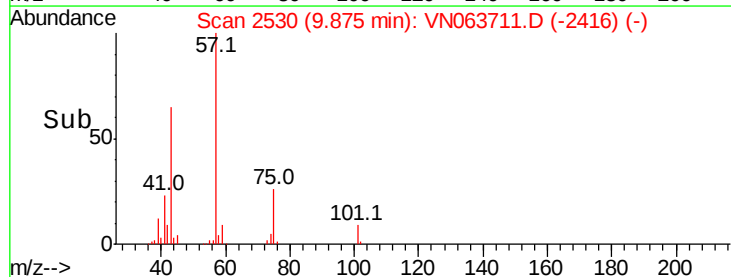
10000

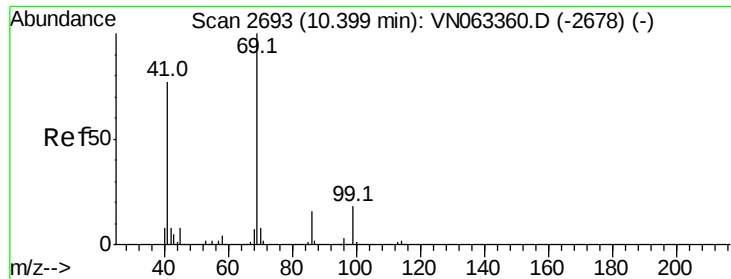
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.330 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

PAV-B26-092420-18-19

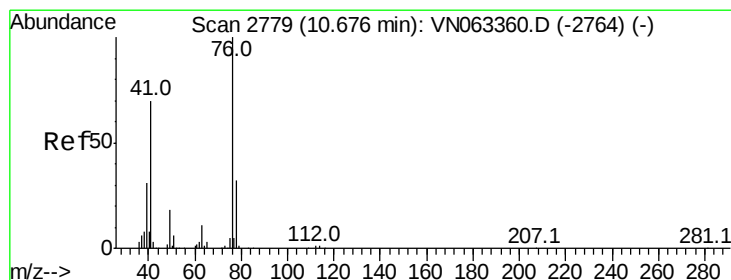
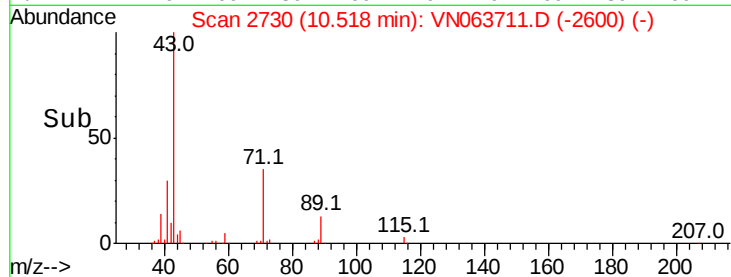
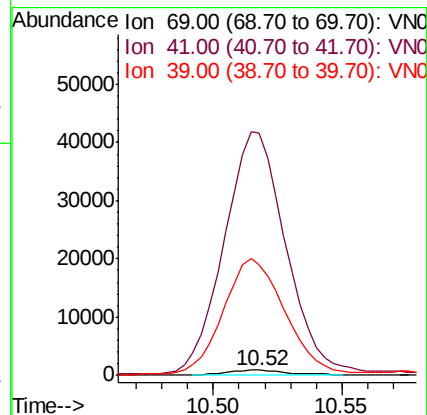
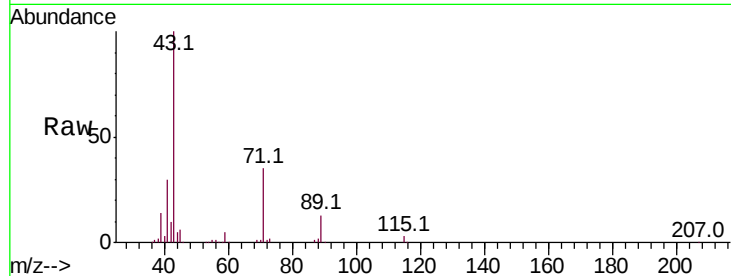
Tot Ion: 69 Resp: 1473

Ion Ratio Lower Upper

69 100

41 4725.4 61.0 91.6#

39 2316.6 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.506 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063711.D

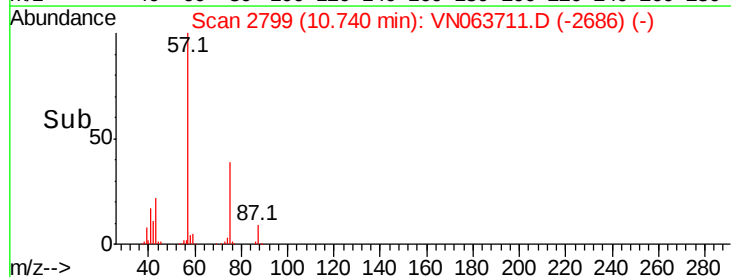
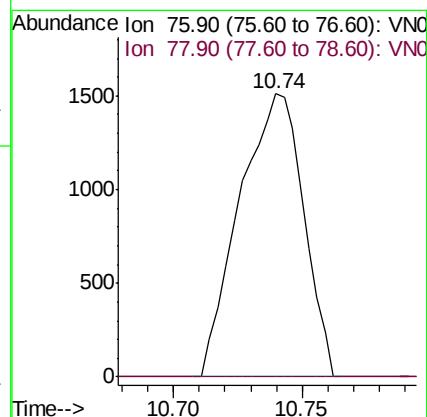
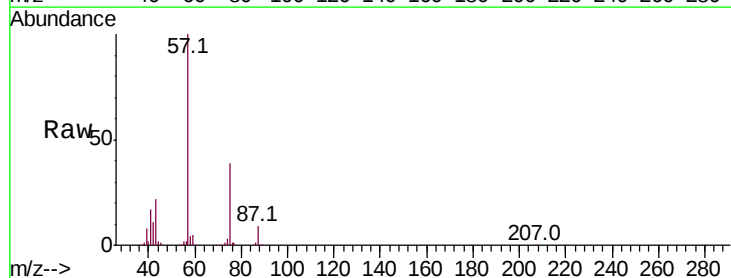
Acq: 28 Sep 2020 17:33

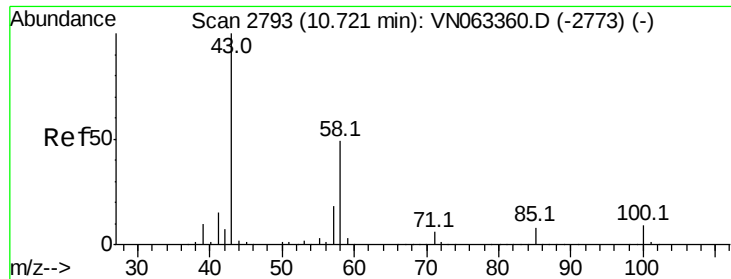
Tgt Ion: 76 Resp: 2612

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

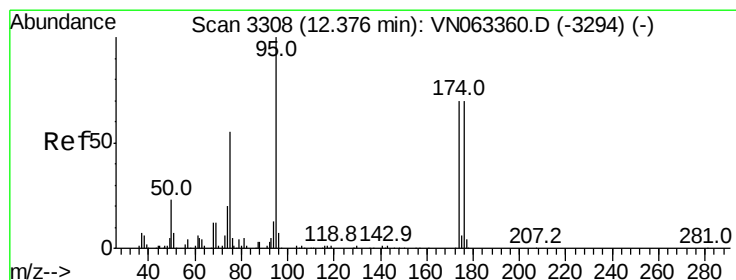
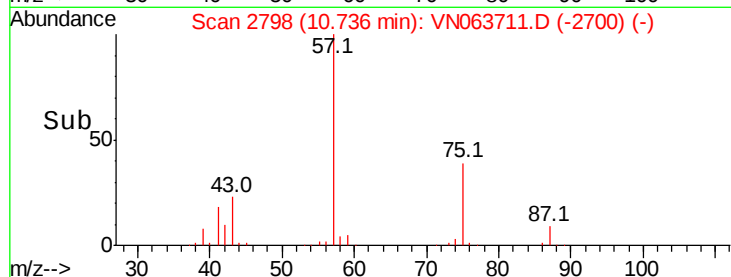
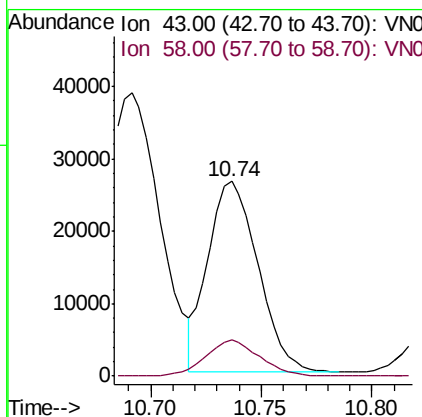
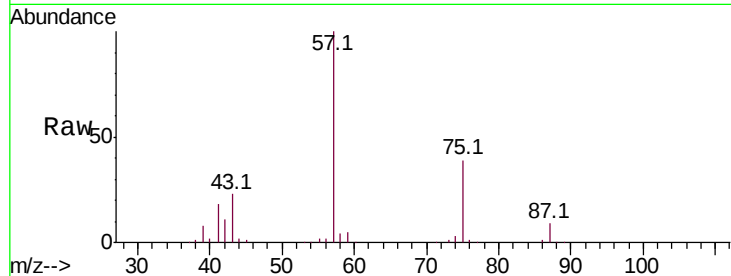




#59  
2-Hexanone  
Concen: 13.826 ug/l  
RT: 10.74 min Scan# 2798  
Delta R.T. 0.02 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

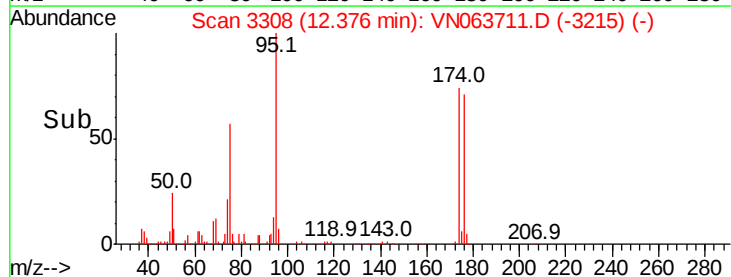
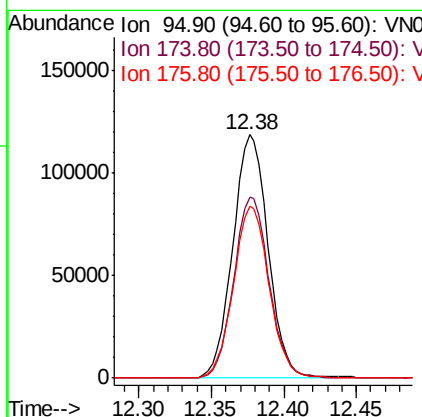
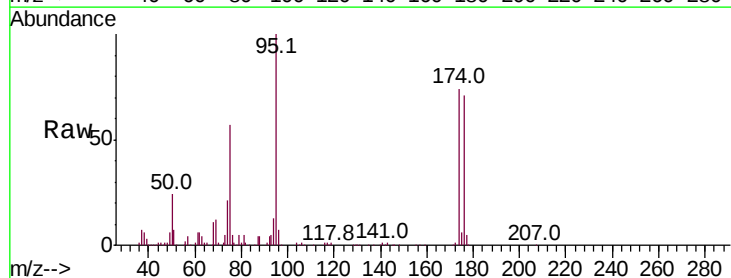
Instrument :  
MSVOA\_N  
ClientSampleId :  
PAV-B26-092420-18-19

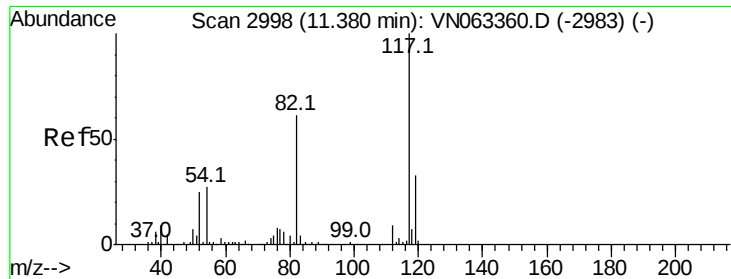
Tot Ion: 43 Resp: 41308  
Ion Ratio Lower Upper  
43 100  
58 20.5 24.7 74.1#



#62  
4-Bromofluorobenzene  
Concen: 53.352 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. -0.00 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

Tgt Ion: 95 Resp: 200583  
Ion Ratio Lower Upper  
95 100  
174 74.5 0.0 140.8  
176 71.3 0.0 137.6

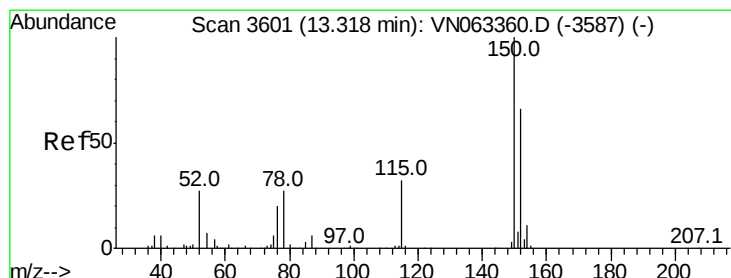
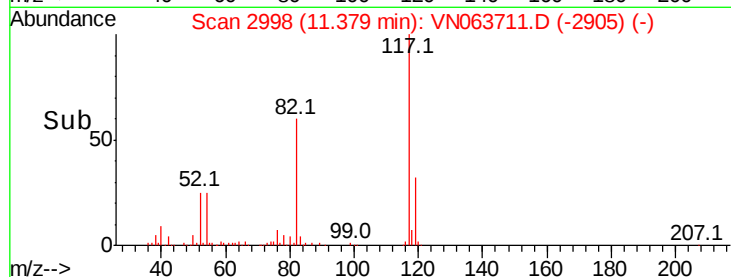
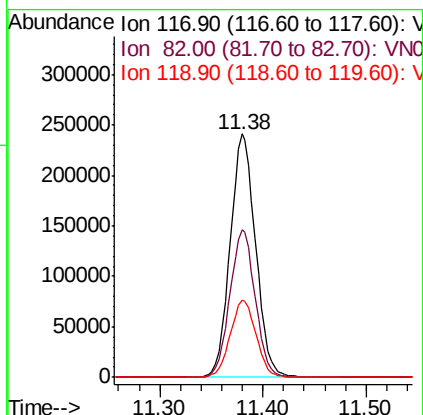
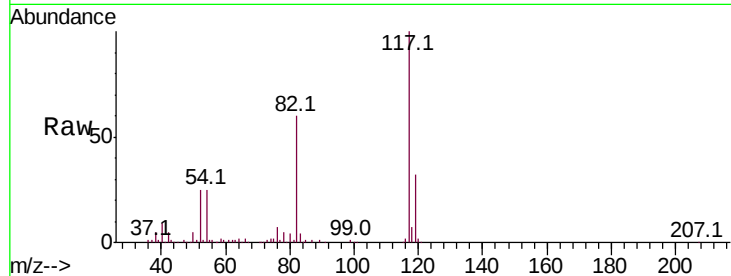




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

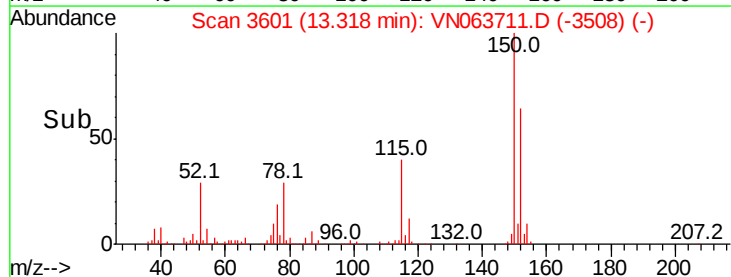
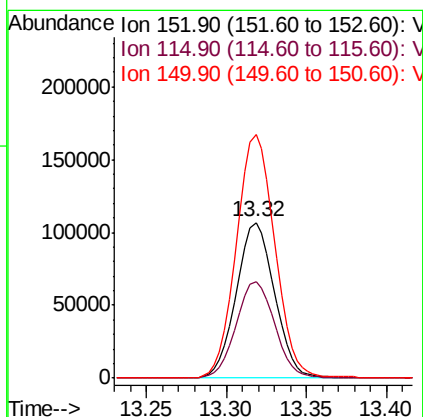
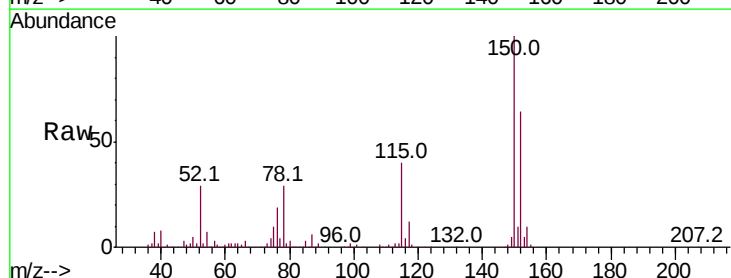
Instrument :  
MSVOA\_N  
ClientSampleId :  
PAV-B26-092420-18-19

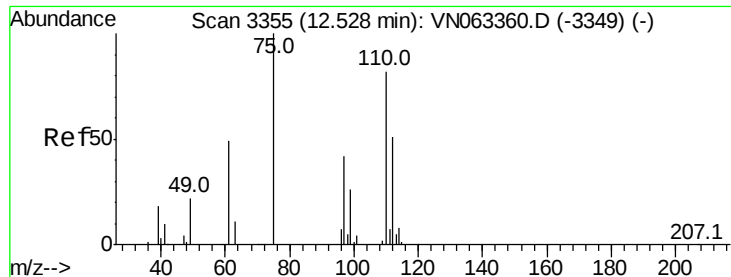
Tot Ion:117 Resp: 413288  
Ion Ratio Lower Upper  
117 100  
82 60.5 49.2 73.8  
119 31.6 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. -0.00 min  
Lab File: VN063711.D  
Acq: 28 Sep 2020 17:33

Tgt Ion:152 Resp: 173985  
Ion Ratio Lower Upper  
152 100  
115 62.4 32.2 96.6  
150 157.1 0.0 343.4





#76

1,2,3-Trichloropropane

Concen: 26.587 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

Instrument :

MSVOA\_N

ClientSampleId :

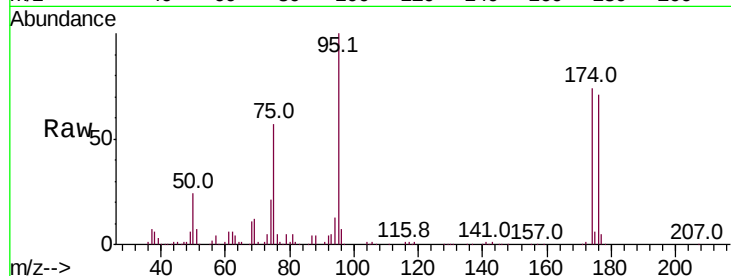
PAV-B26-092420-18-19

Tot Ion: 75 Resp: 114492

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.38

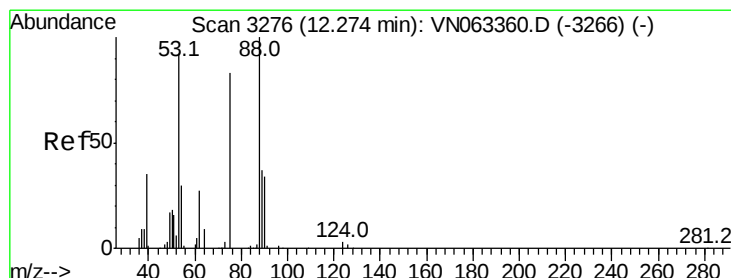
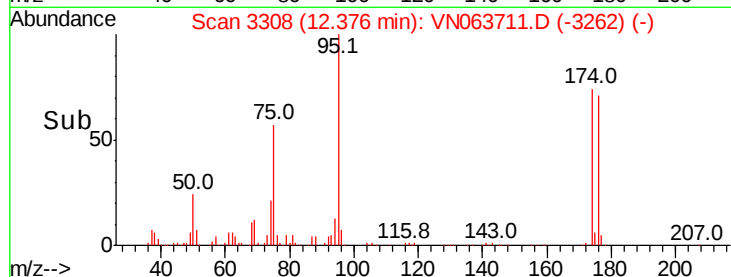
60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 72.891 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063711.D

Acq: 28 Sep 2020 17:33

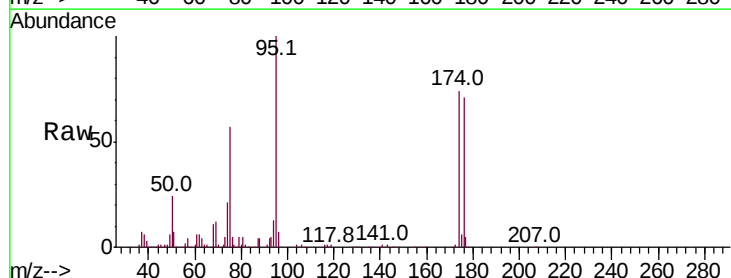
Tgt Ion: 75 Resp: 114492

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.38

80000

60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45

