

Data File : VN060452.D  
Acq On : 11 Mar 2020 15:57  
Operator : JC/MD  
Sample : L1871-04  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TP-17-SA

Quant Time: Mar 12 03:39:24 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  | 199212   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 328294   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 312250   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 144825   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 128878   | 50.42 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.84% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 97713    | 64.12 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 128.24% |      |
| 50) Toluene-d8              | 10.08  | 98  | 406034   | 52.65 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.30% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 153559   | 52.52 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.04% |      |

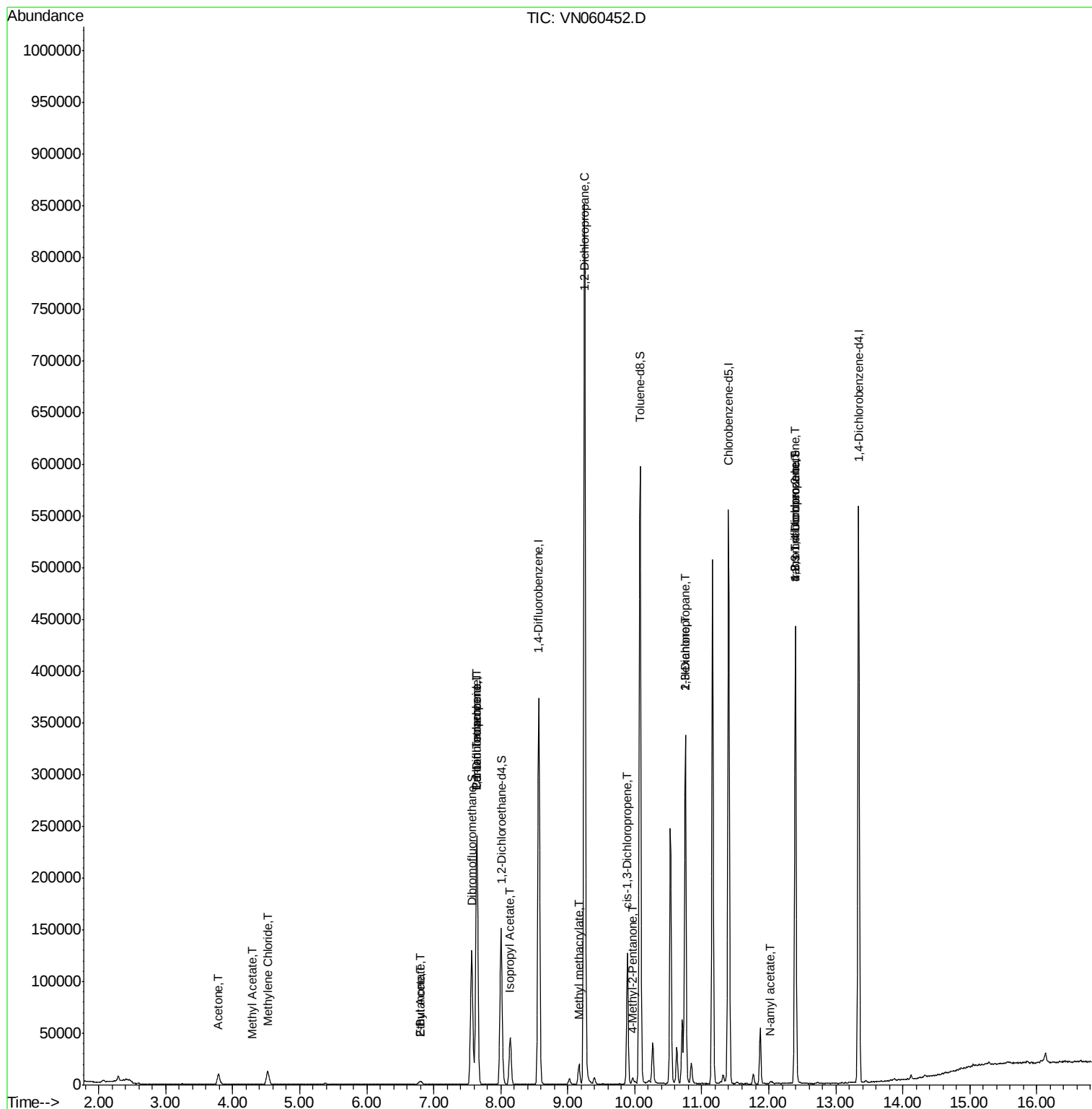
|                                |       |     |       |           |        |     |
|--------------------------------|-------|-----|-------|-----------|--------|-----|
| Target Compounds               |       |     |       | Qvalue    |        |     |
| 16) Acetone                    | 3.79  | 43  | 17828 | 21.600    | ug/l   | 98  |
| 17) Carbon Disulfide           | 4.03  | 76  | 653   | Below Cal | #      | 75  |
| 18) Methyl Acetate             | 4.30  | 43  | 1094  | 0.397     | ug/l # | 52  |
| 20) Methylene Chloride         | 4.52  | 84  | 9690  | 4.275     | ug/l   | 97  |
| 25) 2-Butanone                 | 6.81  | 43  | 5160  | 3.870     | ug/l   | 100 |
| 31) Cyclohexane                | 7.64  | 56  | 4312  | Below Cal | #      | 1   |
| 36) 1,1-Dichloropropene        | 7.64  | 75  | 15488 | 4.950     | ug/l # | 50  |
| 37) Ethyl Acetate              | 6.81  | 43  | 5160  | 1.742     | ug/l # | 68  |
| 38) Carbon Tetrachloride       | 7.64  | 117 | 19174 | 6.294     | ug/l # | 16  |
| 43) Isopropyl Acetate          | 8.14  | 43  | 54366 | 10.482    | ug/l # | 90  |
| 45) 1,2-Dichloropropane        | 9.25  | 63  | 931   | 0.391     | ug/l # | 44  |
| 48) Methyl methacrylate        | 9.17  | 41  | 2735  | 1.156     | ug/l # | 13  |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43  | 4235  | 1.440     | ug/l   | 91  |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75  | 22689 | 5.687     | ug/l # | 59  |
| 57) 1,3-Dichloropropane        | 10.76 | 76  | 3235  | 0.862     | ug/l # | 42  |
| 59) 2-Hexanone                 | 10.75 | 43  | 49782 | 23.057    | ug/l # | 51  |
| 74) N-amyl acetate             | 12.02 | 43  | 1525  | 0.325     | ug/l # | 44  |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 77387 | 24.355    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 77387 | 67.231    | ug/l # | 8   |
| 95) Naphthalene                | 15.13 | 128 | 60    | Below Cal | #      | 69  |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060452.D

Acq: 11 Mar 2020 15:57

Instrument :

MSVOA\_N

ClientSampleId :

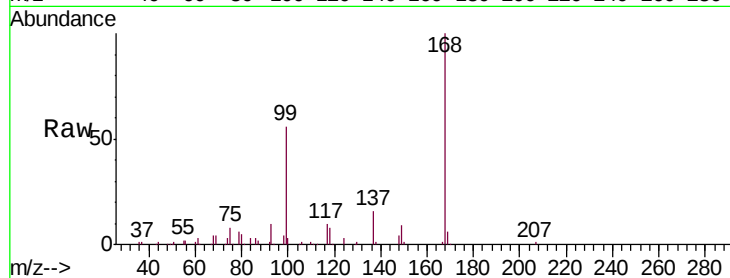
TP-17-SA

Tgt Ion:168 Resp: 199212

Ion Ratio Lower Upper

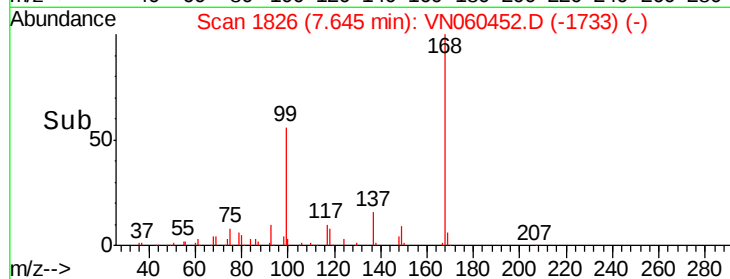
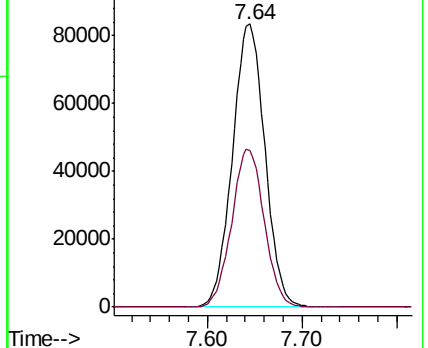
168 100

99 55.6 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: 21.600 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060452.D

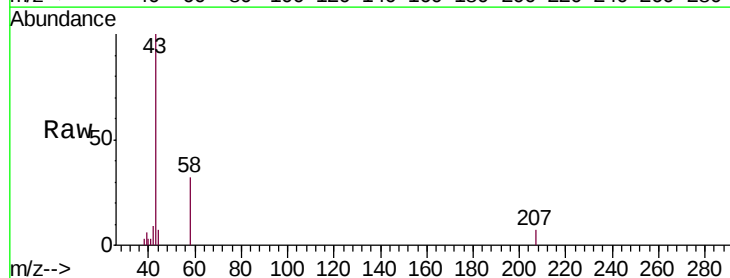
Acq: 11 Mar 2020 15:57

Tgt Ion: 43 Resp: 17828

Ion Ratio Lower Upper

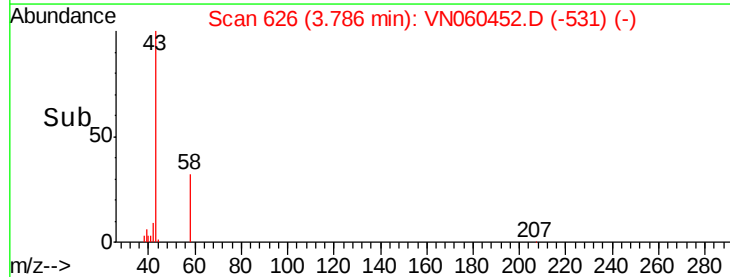
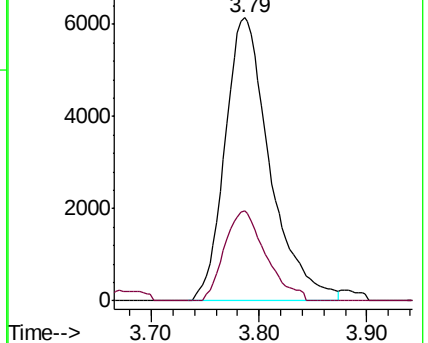
43 100

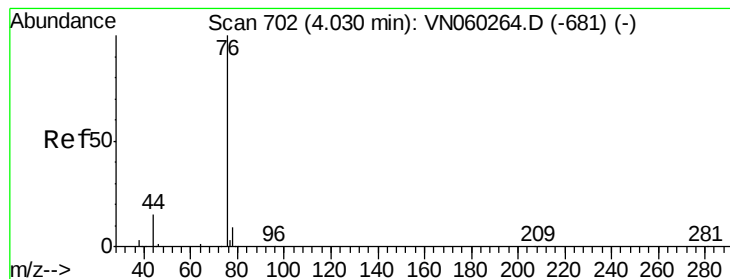
58 31.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060452.D

Acq: 11 Mar 2020 15:57

Instrument :

MSVOA\_N

ClientSampleId :

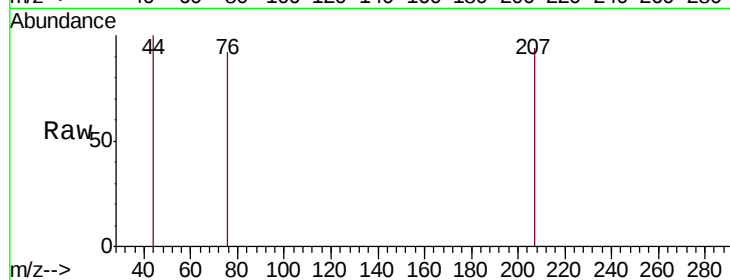
TP-17-SA

Tgt Ion: 76 Resp: 653

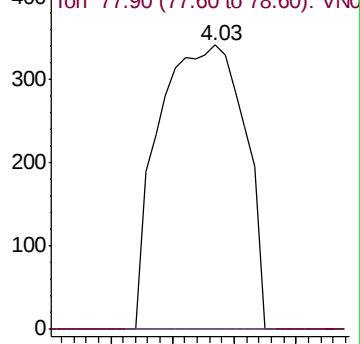
Ion Ratio Lower Upper

76 100

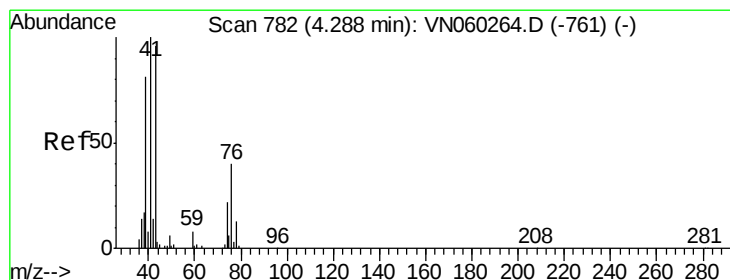
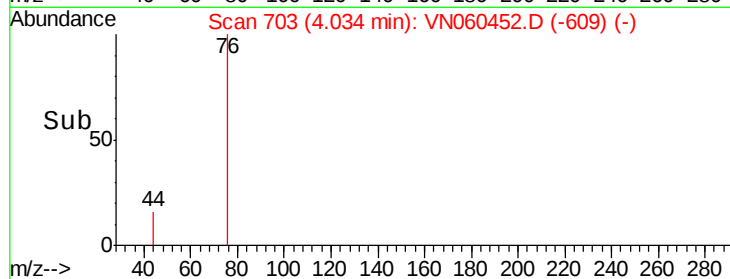
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)



Time-->



#18

Methyl Acetate

Concen: 0.397 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060452.D

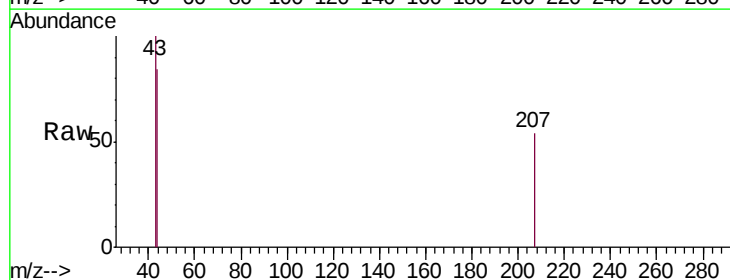
Acq: 11 Mar 2020 15:57

Tgt Ion: 43 Resp: 1094

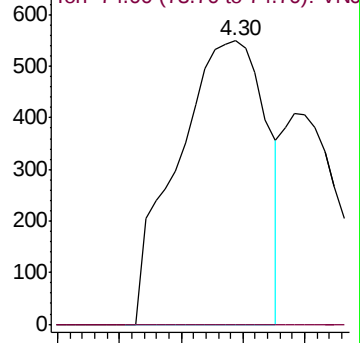
Ion Ratio Lower Upper

43 100

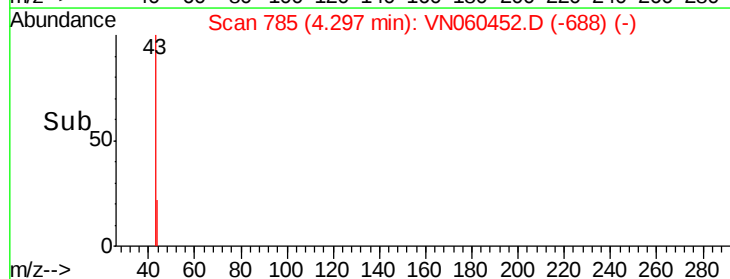
74 0.0 18.8 28.2#

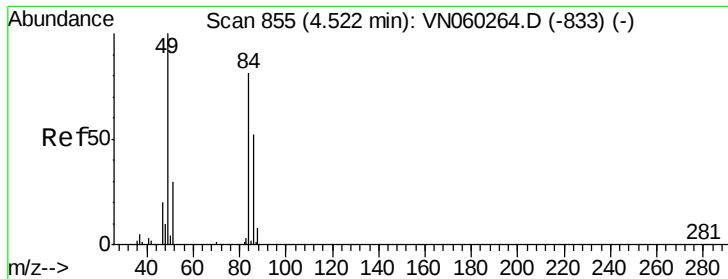


Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-761) (-)



Time-->

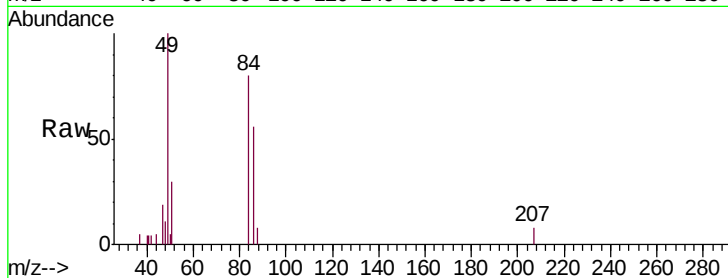




#20  
Methylene Chloride  
Concen: 4.275 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: VN060452.D  
Acq: 11 Mar 2020 15:57

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-17-SA

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 9690  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 125.1 | 99.3  | 148.9 |
| 51       | 37.1  | 30.1  | 45.1  |
| 86       | 69.5  | 51.1  | 76.7  |



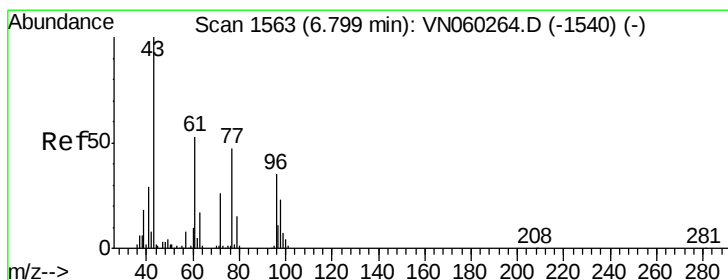
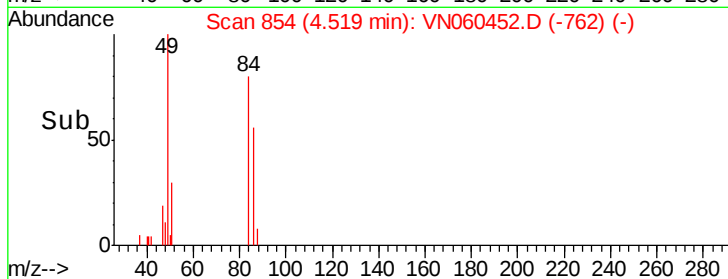
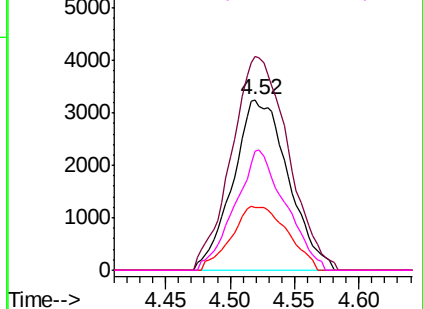
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

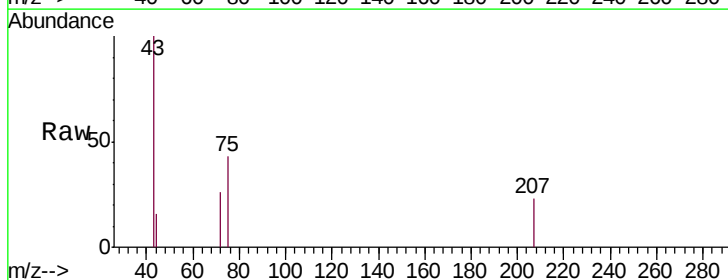
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25  
2-Butanone  
Concen: 3.870 ug/l  
RT: 6.81 min Scan# 1566  
Delta R.T. 0.01 min  
Lab File: VN060452.D  
Acq: 11 Mar 2020 15:57

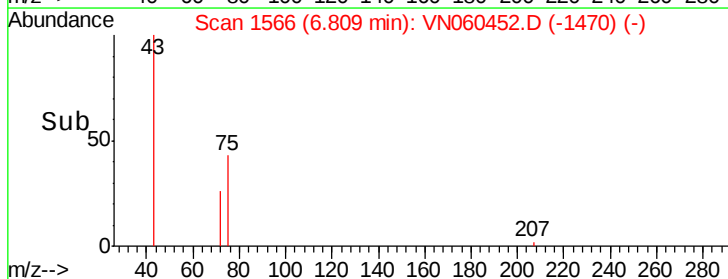
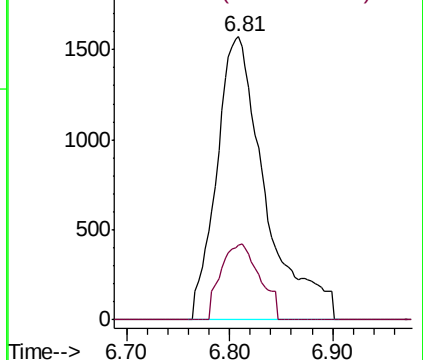
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5160  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 26.2  | 20.9  | 31.3  |



Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

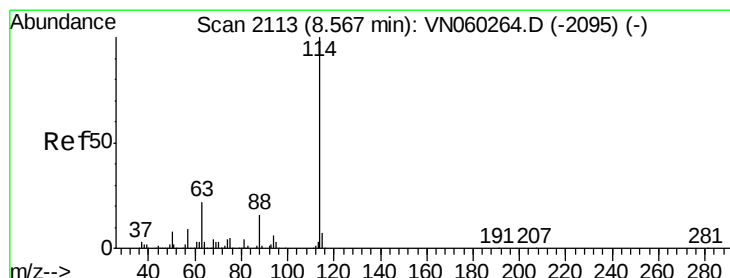
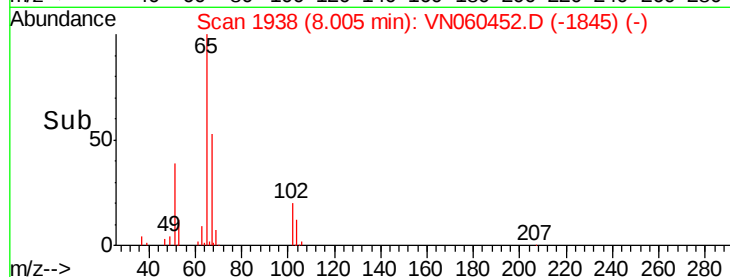
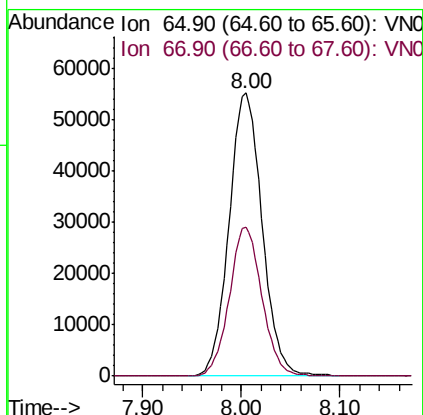
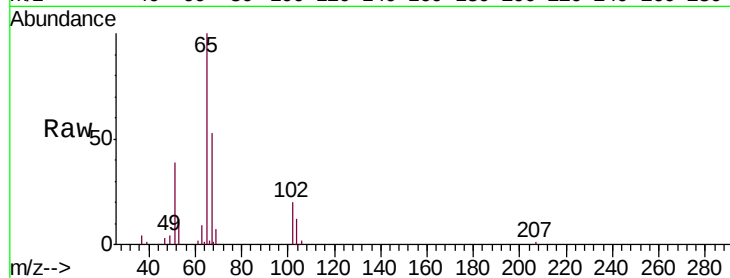




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.423 ug/l  
 RT: 8.00 min Scan# 1938  
 Delta R.T. 0.00 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

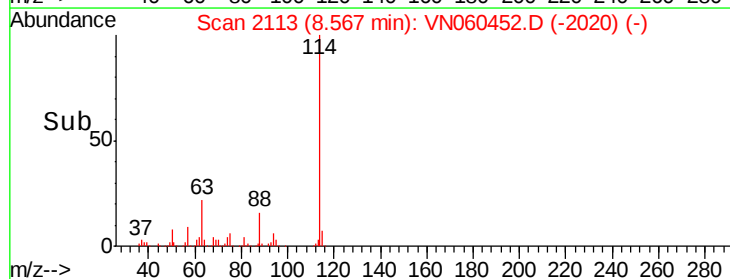
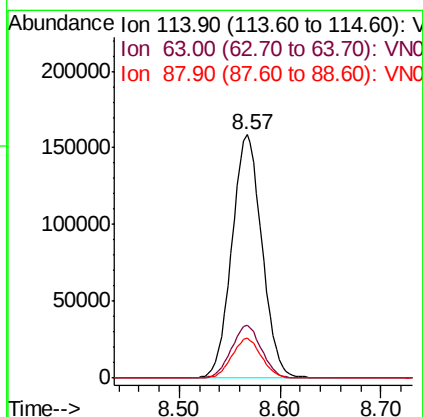
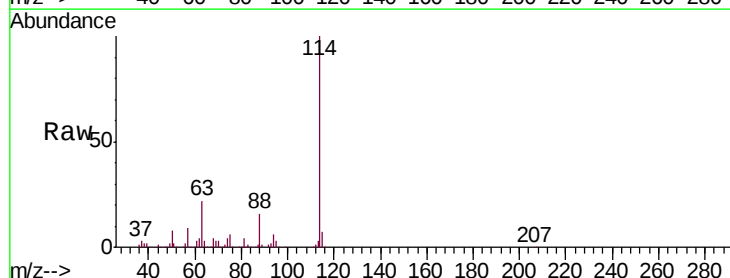
Instrument :  
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 ClientSampled :  
 TP-17-SA

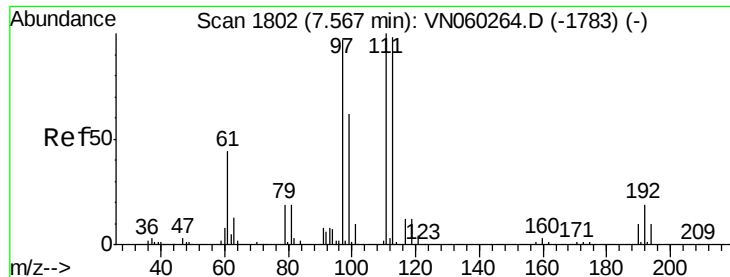
Tgt Ion: 65 Resp: 128878  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

Tgt Ion: 114 Resp: 328294  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 43.2  
 88 16.2 0.0 31.6

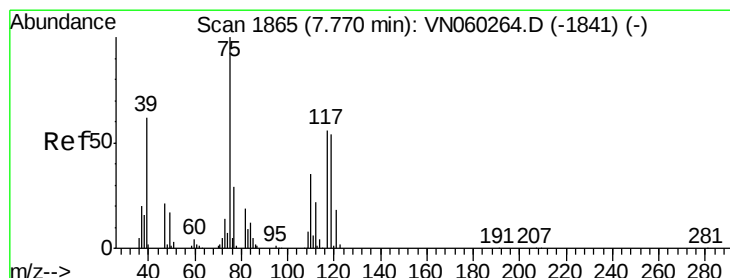
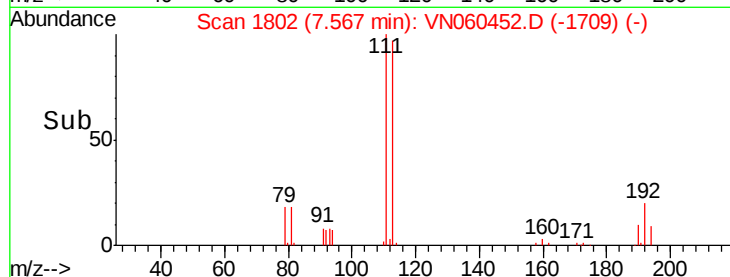
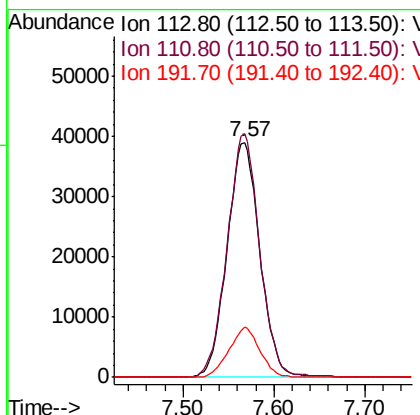
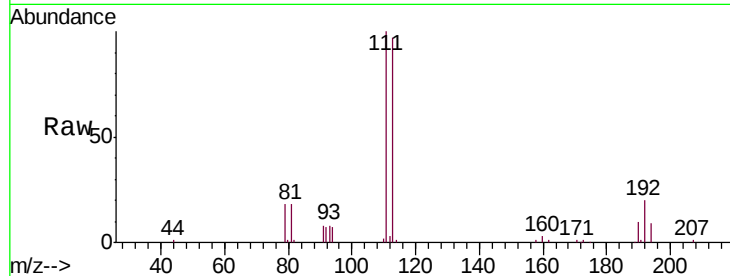




#35  
 Dibromofluoromethane  
 Concen: 64.123 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

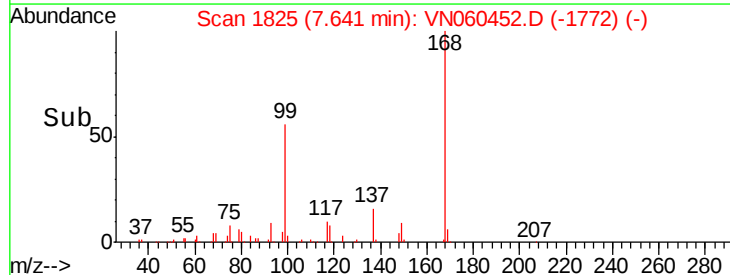
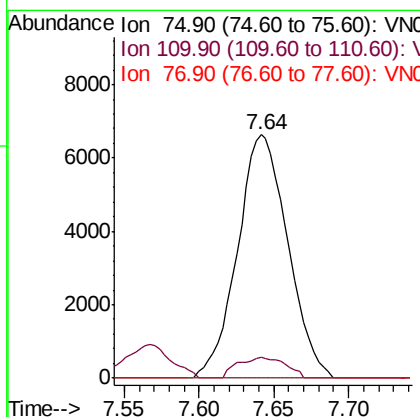
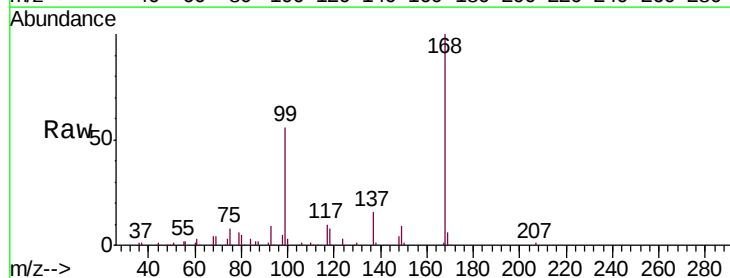
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TP-17-SA

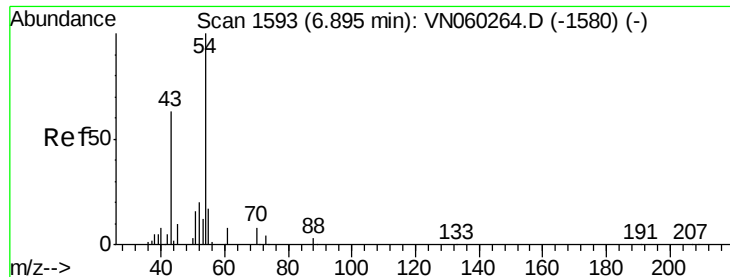
Tgt Ion:113 Resp: 97713  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 82.4 123.6  
 192 20.1 16.2 24.2



#36  
 1,1-Dichloropropene  
 Concen: 4.950 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

Tgt Ion: 75 Resp: 15488  
 Ion Ratio Lower Upper  
 75 100  
 110 8.1 17.3 52.0#  
 77 0.0 24.2 36.2#

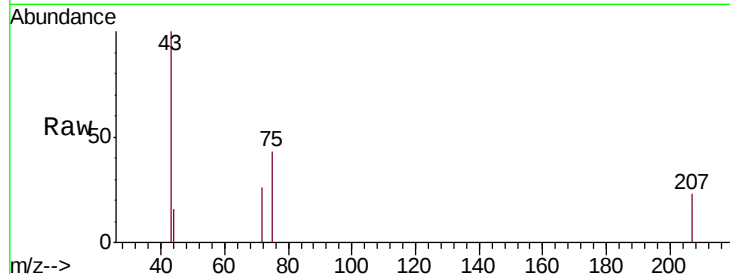




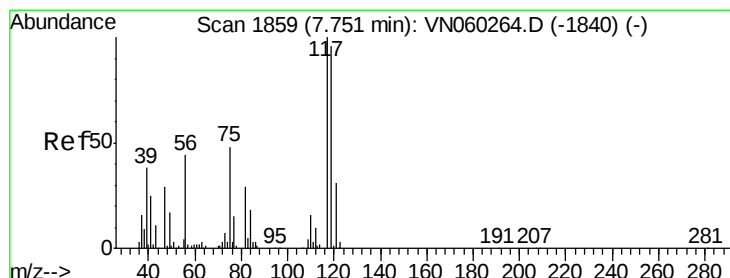
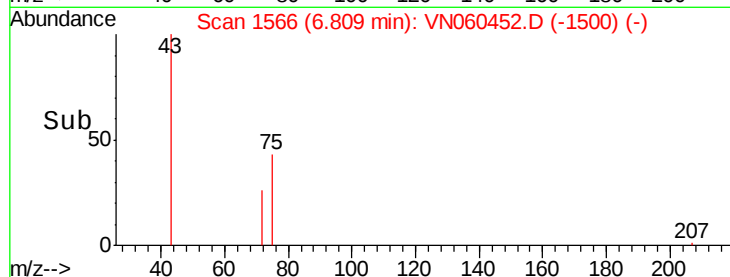
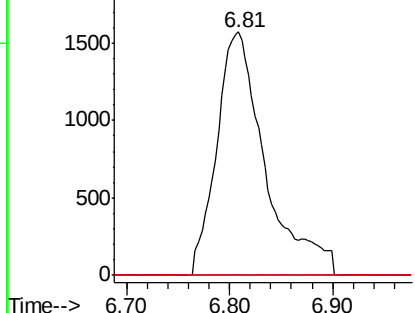
#37  
 Ethyl Acetate  
 Concen: 1.742 ug/l  
 RT: 6.81 min Scan# 1566  
 Delta R.T. -0.09 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-17-SA

Tgt Ion: 43 Resp: 5160  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 11.1 16.7#  
 70 0.0 8.4 12.6#

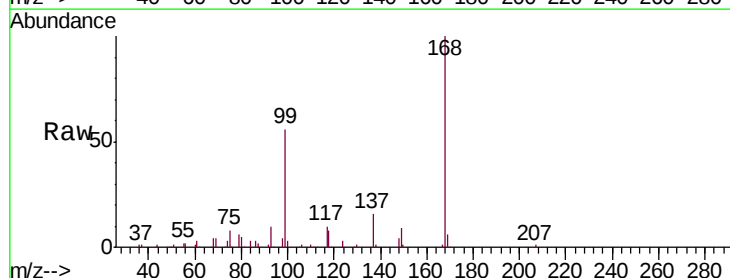


Abundance Ion 43.00 (42.70 to 43.70): VN0  
 Ion 60.90 (60.60 to 61.60): VN0  
 Ion 70.00 (69.70 to 70.70): VN0

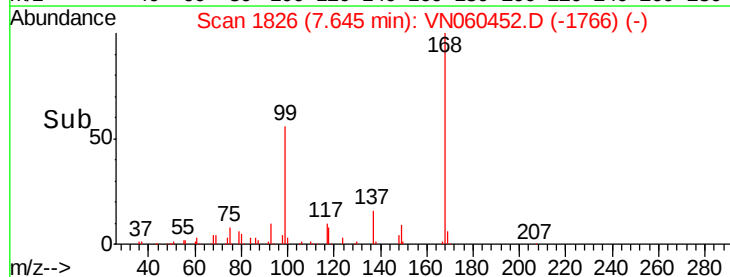
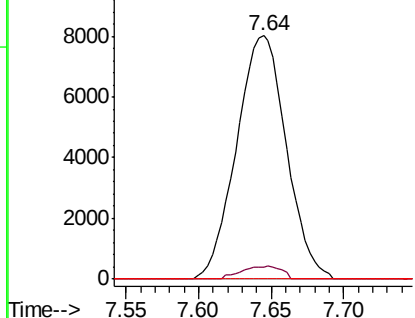


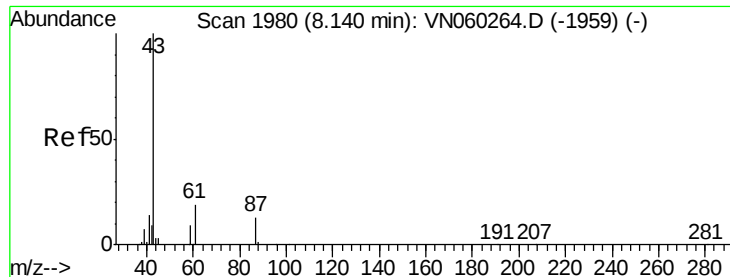
#38  
 Carbon Tetrachloride  
 Concen: 6.294 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.11 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

Tgt Ion: 117 Resp: 19174  
 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





#43

Isopropyl Acetate

Concen: 10.482 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060452.D

Acq: 11 Mar 2020 15:57

Instrument :

MSVOA\_N

ClientSampleId :

TP-17-SA

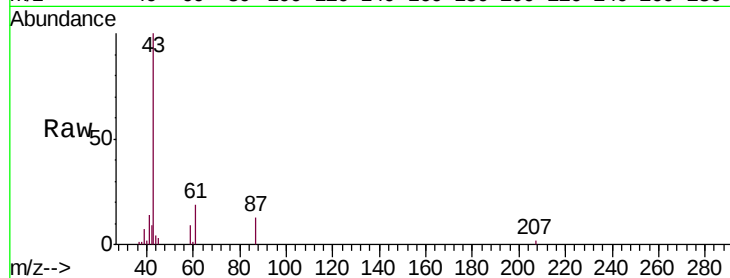
Tgt Ion: 43 Resp: 54366

Ion Ratio Lower Upper

43 100

61 18.9 20.9 31.3#

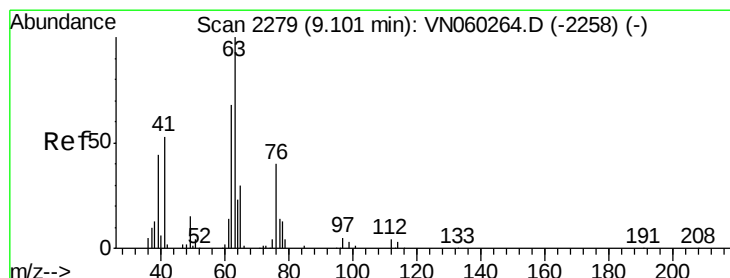
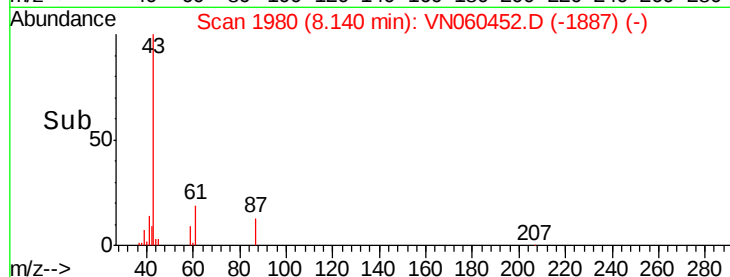
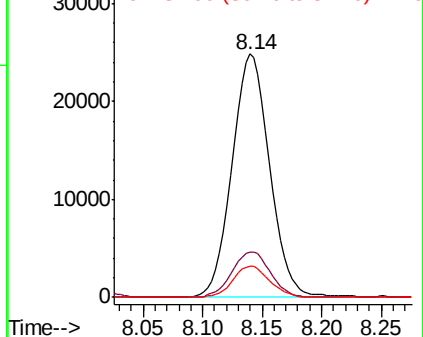
87 12.6 10.6 16.0



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: 0.391 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060452.D

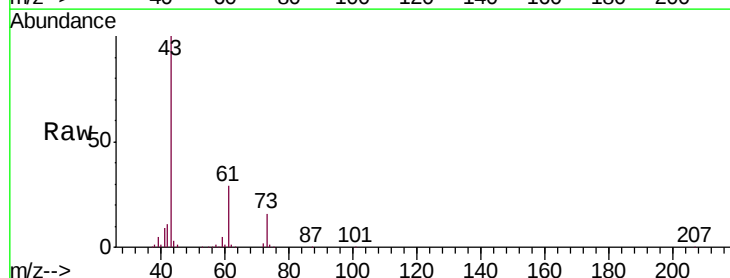
Acq: 11 Mar 2020 15:57

Tgt Ion: 63 Resp: 931

Ion Ratio Lower Upper

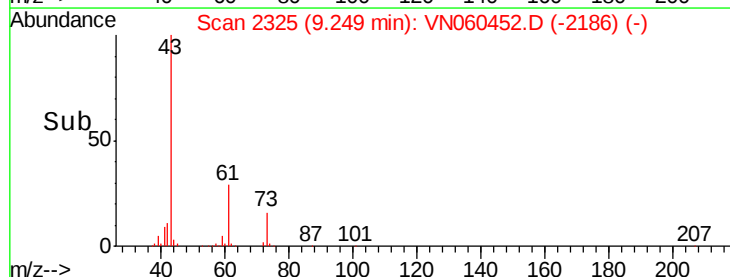
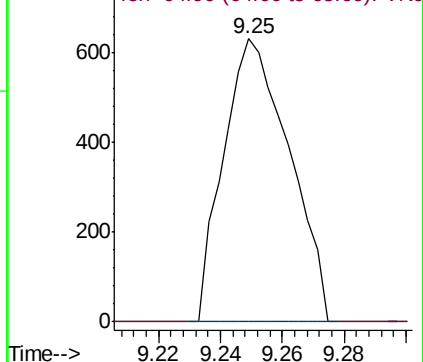
63 100

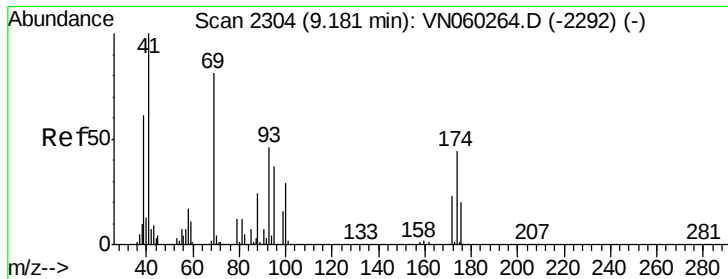
65 0.0 24.4 36.6#



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

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

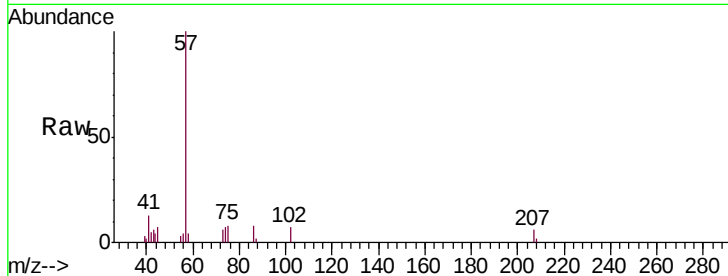




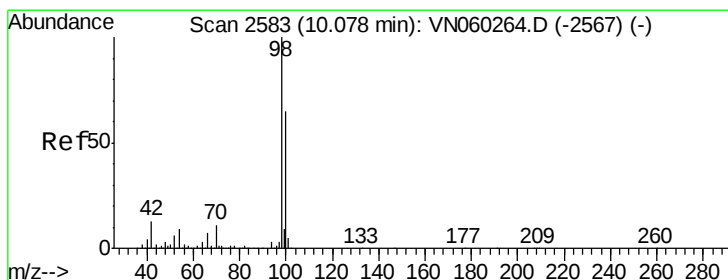
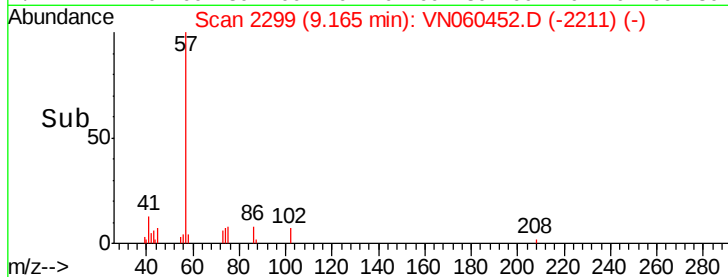
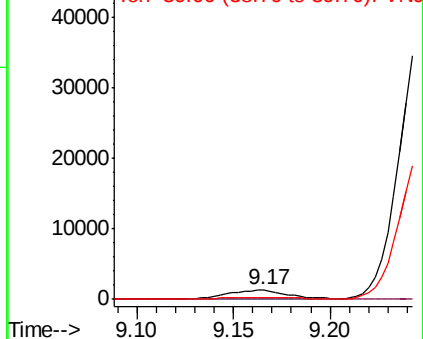
#48  
Methyl methacrylate  
Concen: 1.156 ug/l  
RT: 9.17 min Scan# 2299  
Delta R.T. -0.02 min  
Lab File: VN060452.D  
Acq: 11 Mar 2020 15:57

Instrument :  
MSVOA\_N  
ClientSampled :  
TP-17-SA

Tgt Ion: 41 Resp: 2735  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.7 100.1#  
39 0.0 50.1 75.1#

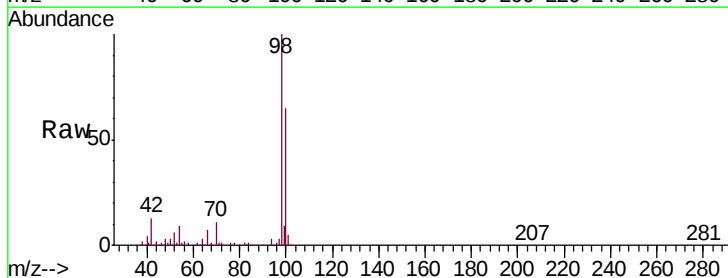


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

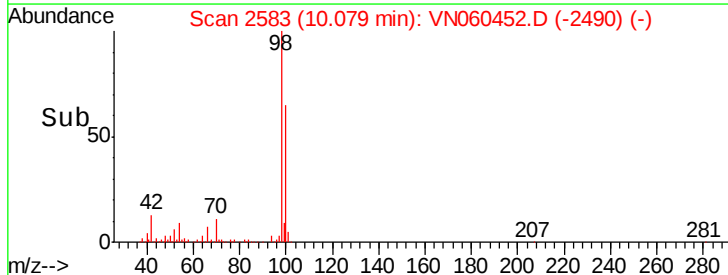
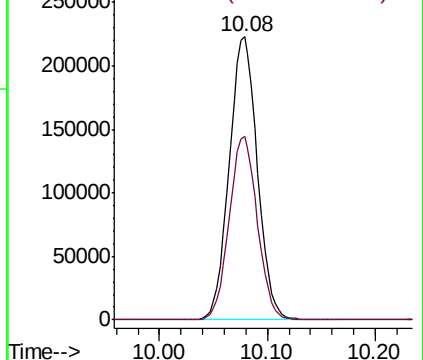


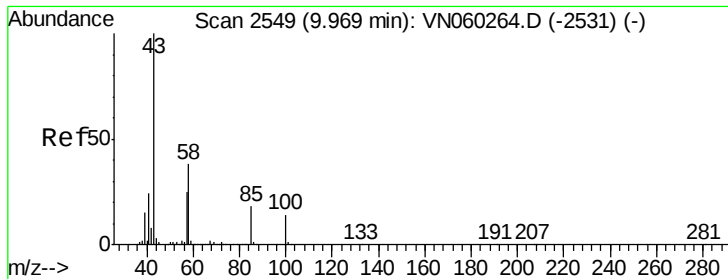
#50  
Toluene-d8  
Concen: 52.647 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. 0.00 min  
Lab File: VN060452.D  
Acq: 11 Mar 2020 15:57

Tgt Ion: 98 Resp: 406034  
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

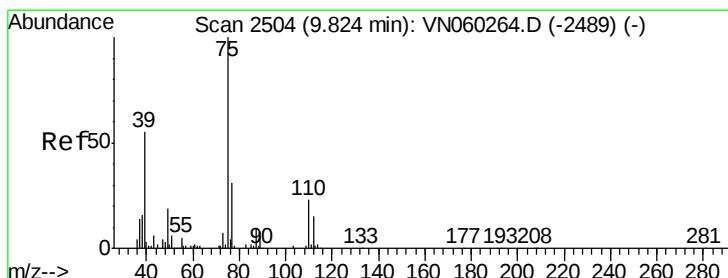
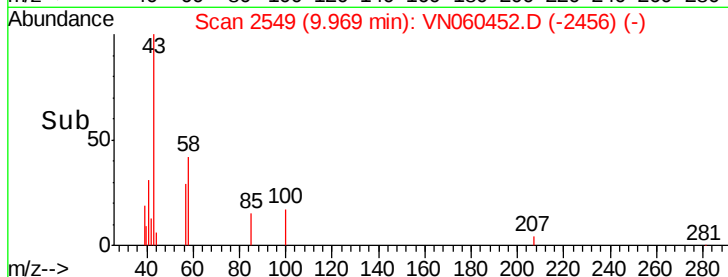
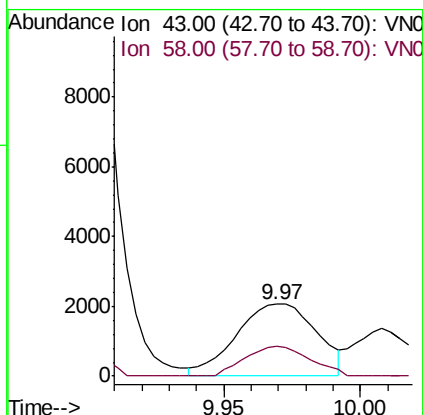
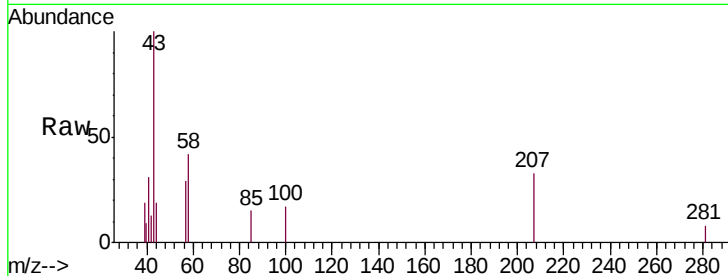




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.440 ug/l  
 RT: 9.97 min Scan# 2549  
 Delta R.T. 0.00 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

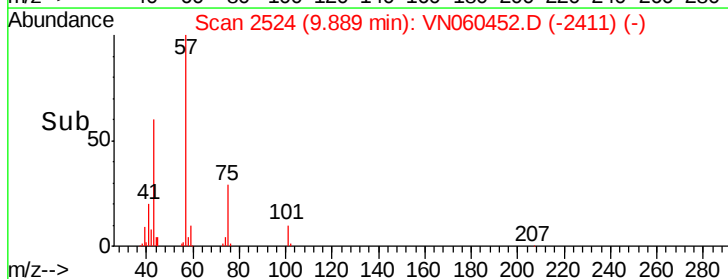
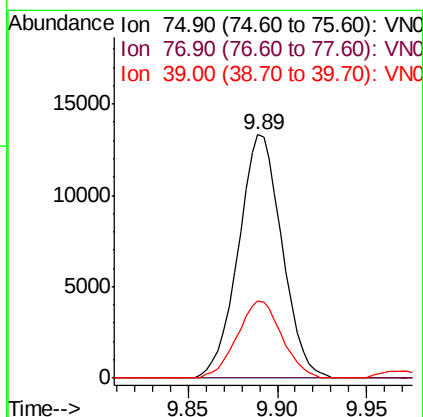
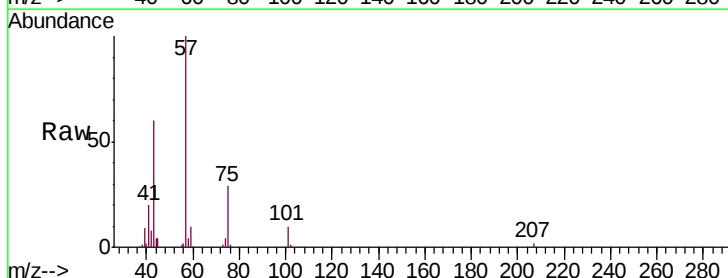
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-17-SA

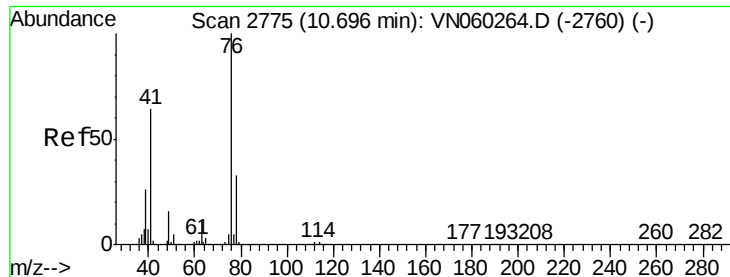
Tgt Ion: 43 Resp: 4235  
 Ion Ratio Lower Upper  
 43 100  
 58 33.4 30.9 46.3



#54  
 cis-1,3-Dichloropropene  
 Concen: 5.687 ug/l  
 RT: 9.89 min Scan# 2524  
 Delta R.T. 0.06 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

Tgt Ion: 75 Resp: 22689  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.8 37.2#  
 39 31.5 43.8 65.8#

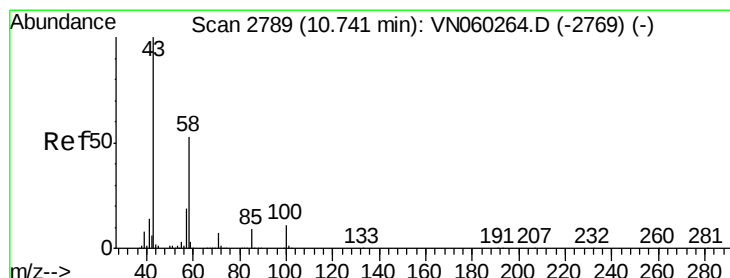
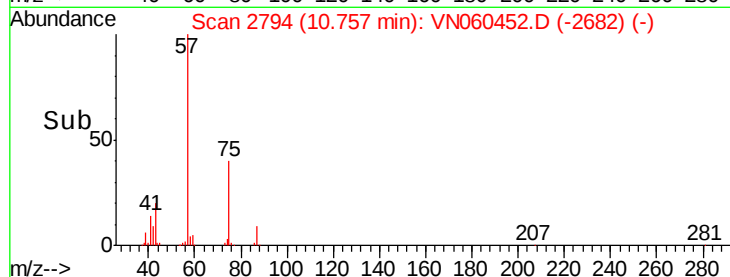
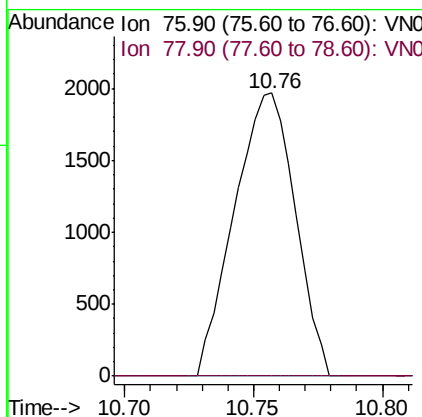
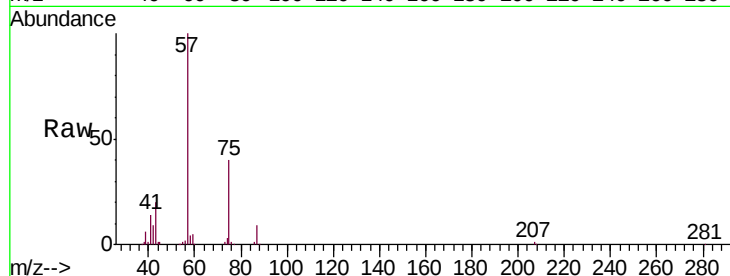




#57  
 1,3-Dichloropropane  
 Concen: 0.862 ug/l  
 RT: 10.76 min Scan# 2794  
 Delta R.T. 0.06 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

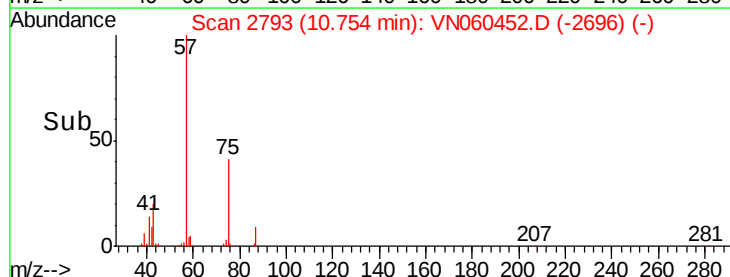
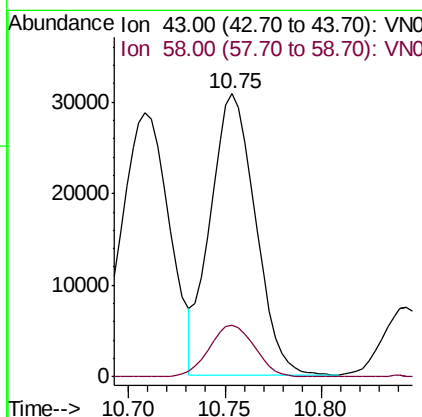
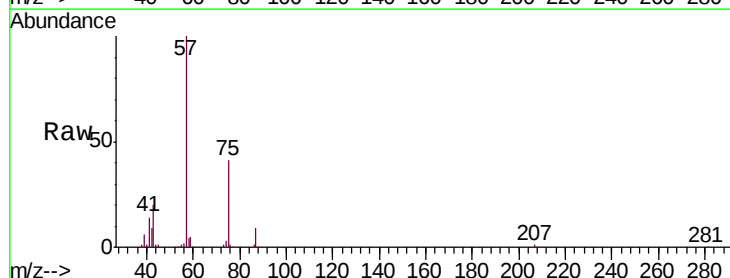
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TP-17-SA

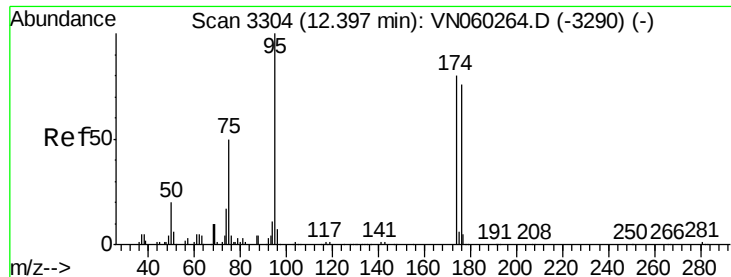
Tgt Ion: 76 Resp: 3235  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.2 39.2#



#59  
 2-Hexanone  
 Concen: 23.057 ug/l  
 RT: 10.75 min Scan# 2793  
 Delta R.T. 0.01 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

Tgt Ion: 43 Resp: 49782  
 Ion Ratio Lower Upper  
 43 100  
 58 18.6 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 52.525 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060452.D

Acq: 11 Mar 2020 15:57

Instrument :

MSVOA\_N

ClientSampleId :

TP-17-SA

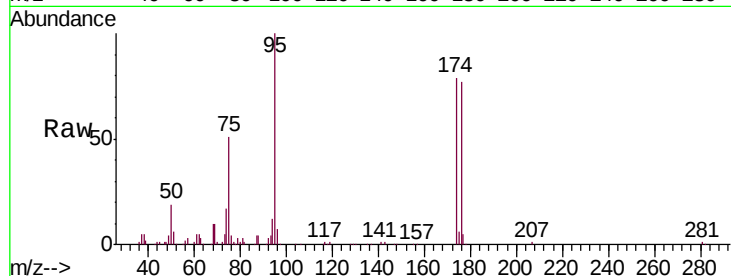
Tgt Ion: 95 Resp: 153559

Ion Ratio Lower Upper

95 100

174 78.6 0.0 159.2

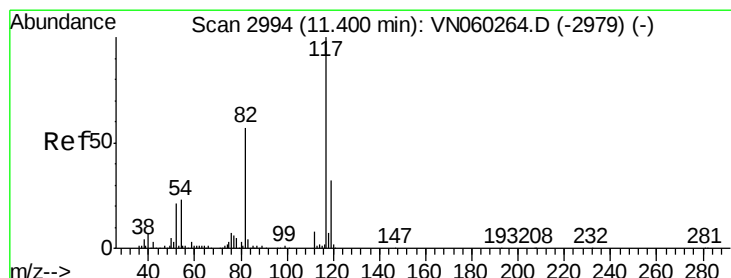
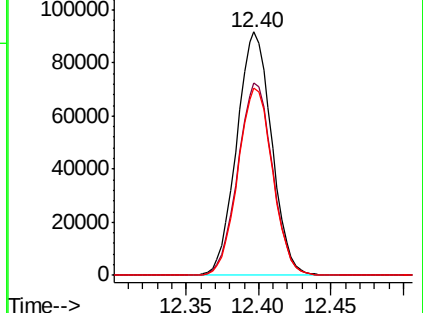
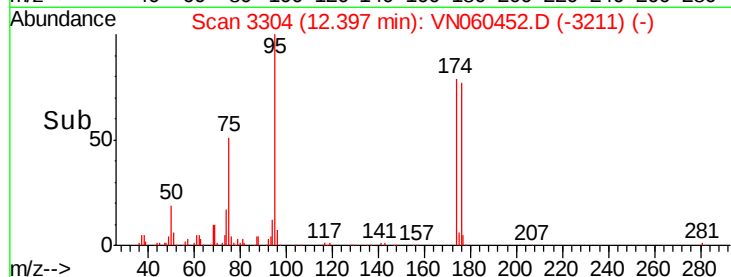
176 76.7 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060452.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060452.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060452.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060452.D

Acq: 11 Mar 2020 15:57

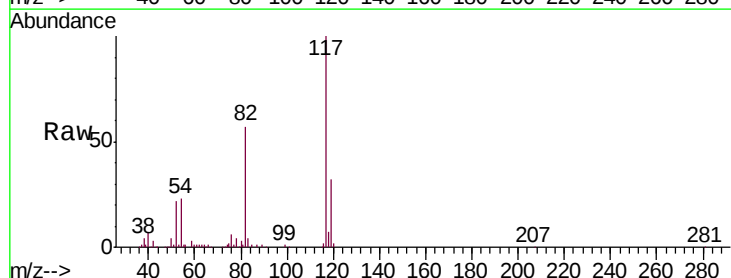
Tgt Ion: 117 Resp: 312250

Ion Ratio Lower Upper

117 100

82 57.5 45.8 68.6

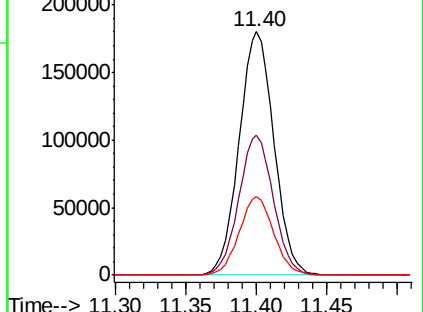
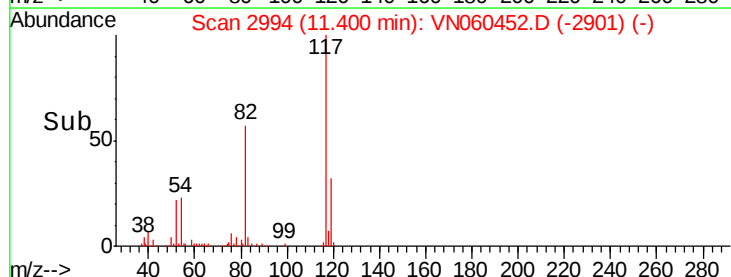
119 32.2 25.8 38.8

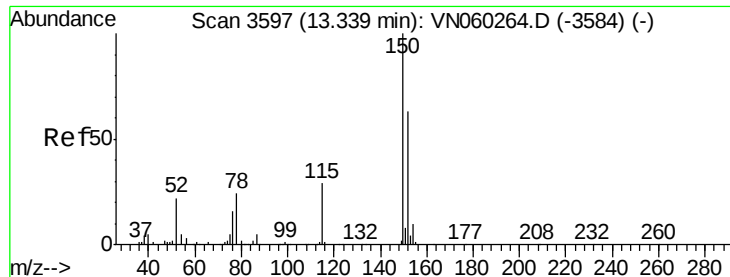


Abundance Ion 116.90 (116.60 to 117.60): VN060452.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060452.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060452.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060452.D

Acq: 11 Mar 2020 15:57

Instrument :

MSVOA\_N

ClientSampleId :

TP-17-SA

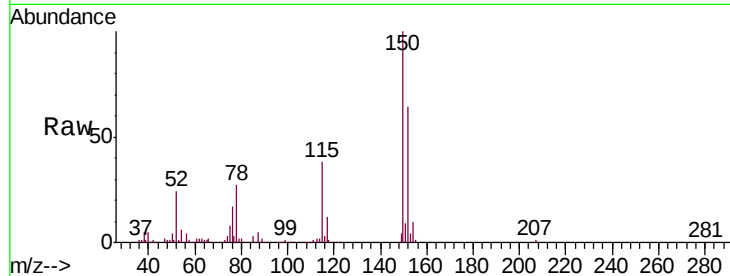
Tgt Ion: 152 Resp: 144825

Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

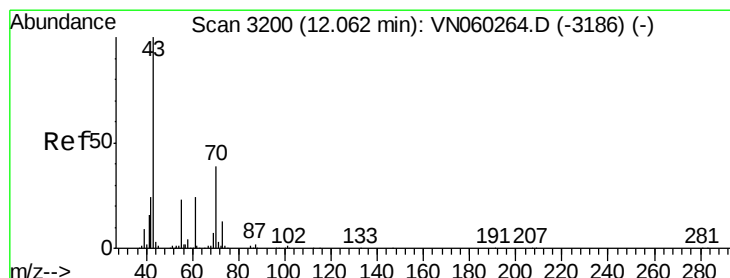
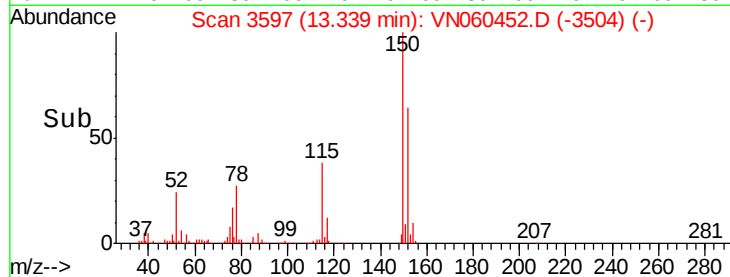
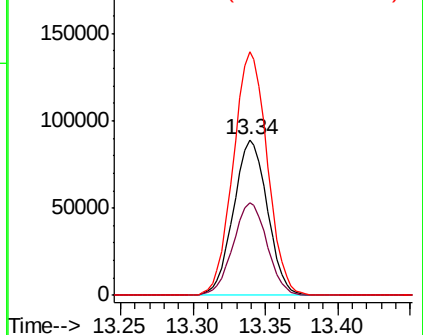
150 157.4 0.0 349.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.325 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060452.D

Acq: 11 Mar 2020 15:57

Tgt Ion: 43 Resp: 1525

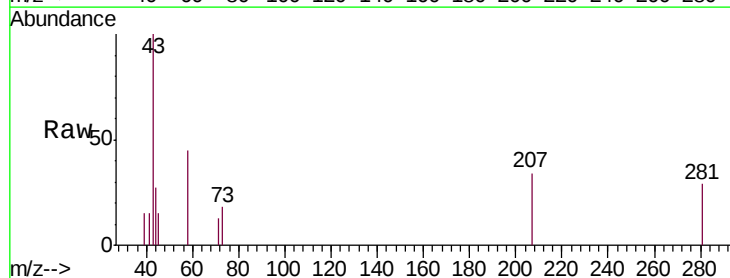
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

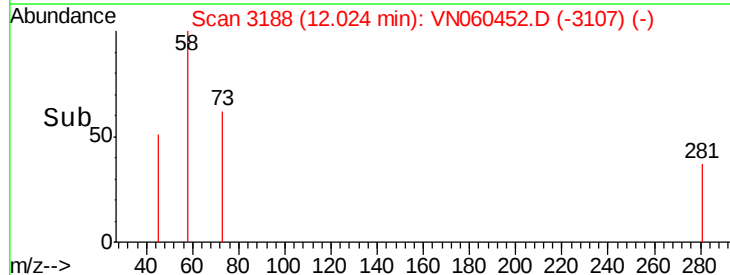
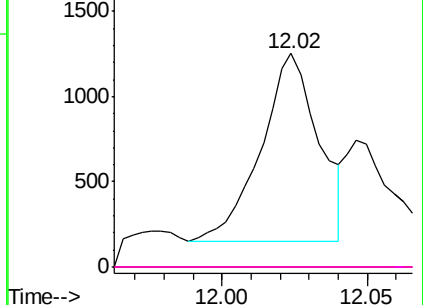


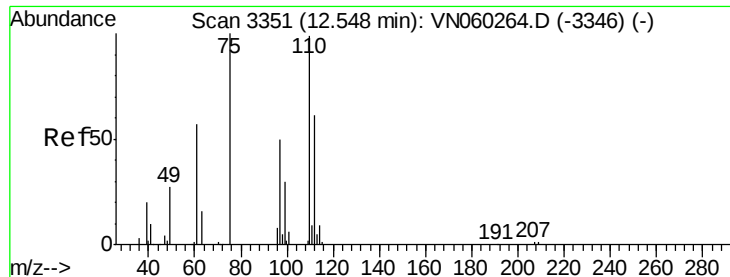
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

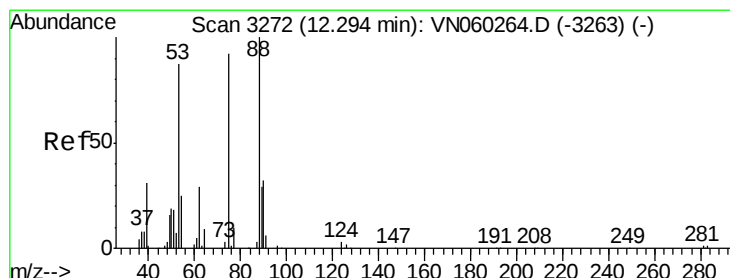
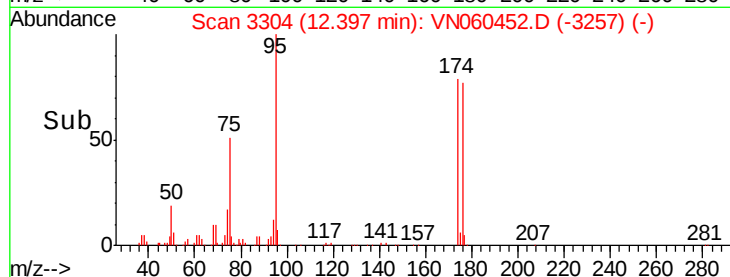
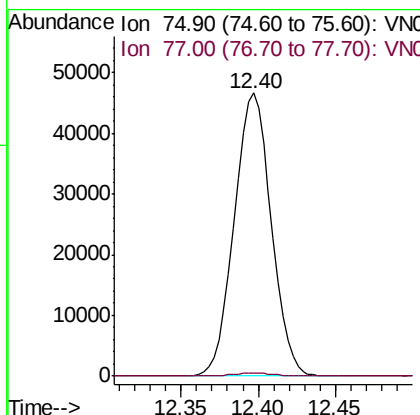
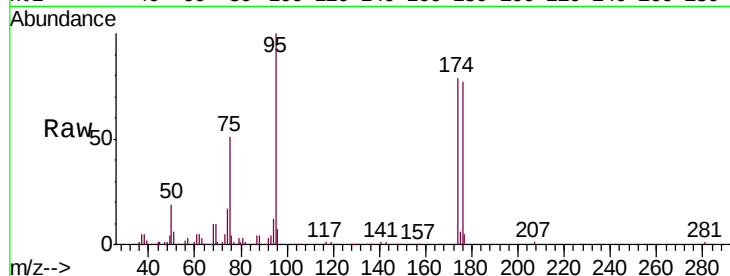




#76  
 1,2,3-Trichloropropane  
 Concen: 24.355 ug/l  
 RT: 12.40 min Scan# 3304  
 Delta R.T. -0.15 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

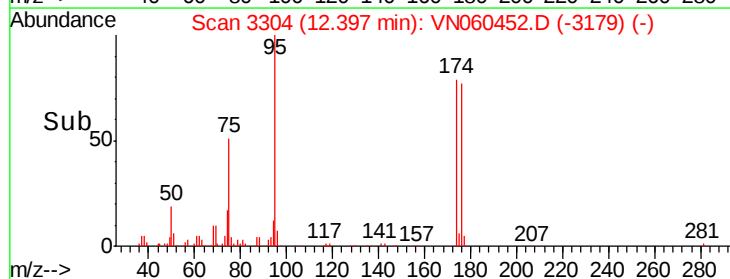
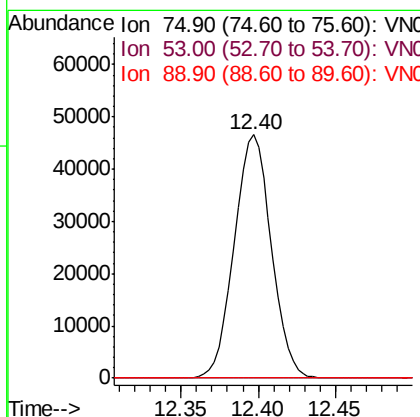
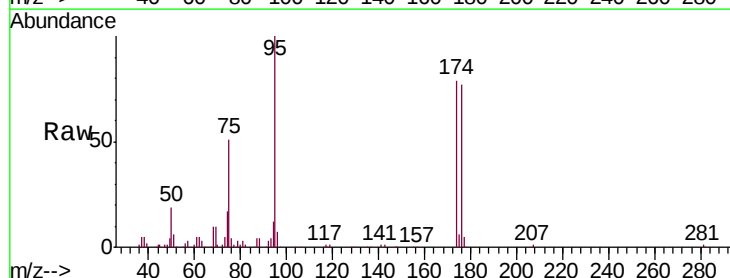
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TP-17-SA

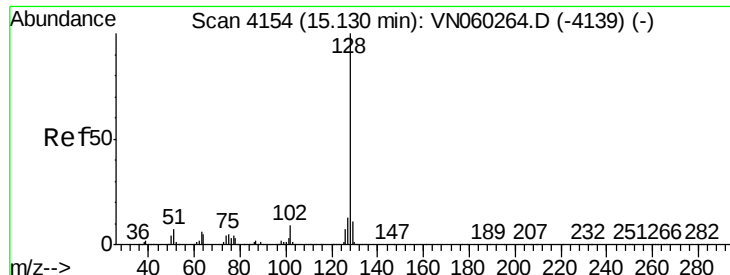
Tgt Ion: 75 Resp: 77387  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 67.231 ug/l  
 RT: 12.40 min Scan# 3304  
 Delta R.T. 0.10 min  
 Lab File: VN060452.D  
 Acq: 11 Mar 2020 15:57

Tgt Ion: 75 Resp: 77387  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.8 110.6#  
 89 0.0 57.1 85.7#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060452.D

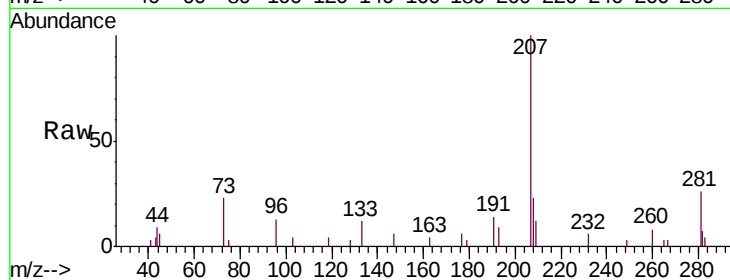
Acq: 11 Mar 2020 15:57

Instrument :

MSVOA\_N

ClientSampleId :

TP-17-SA



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 60    |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.4  | 15.6# |
| 129      | 0.0   | 8.6   | 13.0# |

