

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN081320\  
 Data File : VN062924.D  
 Acq On : 13 Aug 2020 20:55  
 Operator : JC/MD  
 Sample : L3660-05  
 Misc : 1.01g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VB25984

Quant Time: Aug 14 05:11:41 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 115338   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 207995   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 202652   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 83029    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.98  | 65   | 98569    | 51.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.36% |          |
| 35) Dibromofluoromethane    | 7.54  | 113  | 68337    | 48.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.06%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 259356   | 46.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.38%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 93118    | 44.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.72%  |          |

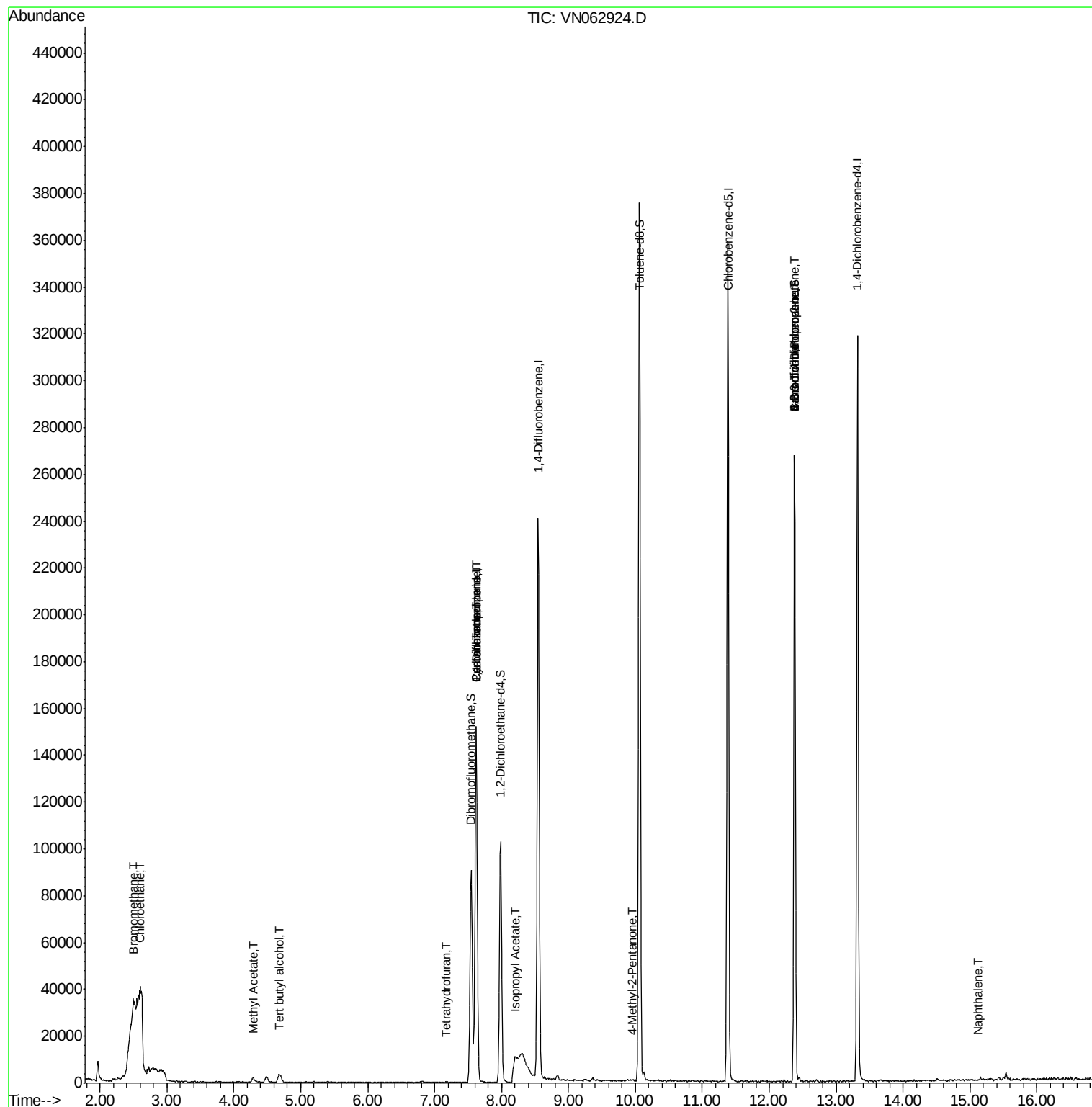
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 2.50  | 94   | 242      | 0.250  | ug/l # | 5      |
| 6) Chloroethane                | 2.61  | 64   | 492      | 0.512  | ug/l # | 45     |
| 11) Tert butyl alcohol         | 4.68  | 59   | 3830     | 12.252 | ug/l # | 72     |
| 18) Methyl Acetate             | 4.29  | 43   | 3977     | 1.341  | ug/l # | 66     |
| 29) Tetrahydrofuran            | 7.17  | 42   | 269      | 0.424  | ug/l # | 33     |
| 31) Cyclohexane                | 7.62  | 56   | 2338     | 1.011  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 9861     | 4.869  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 12115    | 5.058  | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.21  | 43   | 9526     | 2.700  | ug/l # | 61     |
| 51) 4-Methyl-2-Pentanone       | 9.96  | 43   | 479      | 0.210  | ug/l # | 36     |
| 71) Bromoform                  | 12.38 | 173  | 915      | 0.657  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 50519    | 22.561 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 50519    | 68.873 | ug/l # | 10     |
| 95) Naphthalene                | 15.11 | 128  | 30       | 3.715  | ug/l # | 68     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081320\  
Data File : VN062924.D  
Acq On : 13 Aug 2020 20:55  
Operator : JC/MD  
Sample : L3660-05  
Misc : 1.01µ/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VB25984

Quant Time: Aug 14 05:11:41 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:26:42 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

Instrument :

MSVOA\_N

ClientSampleId :

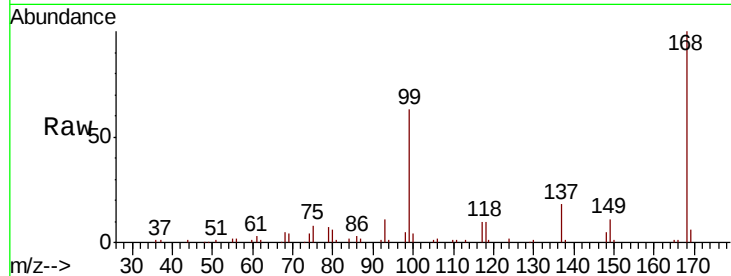
VB25984

Tot Ion:168 Resp: 115338

Ion Ratio Lower Upper

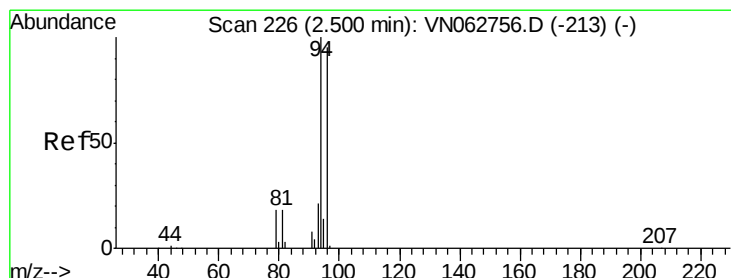
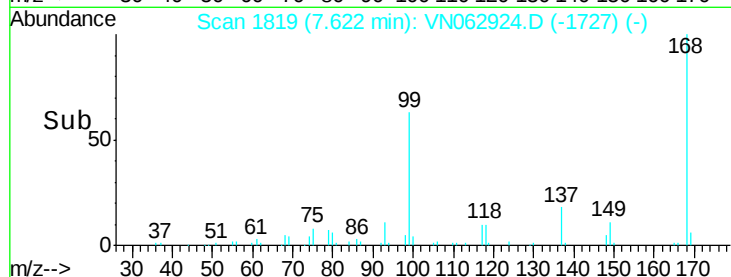
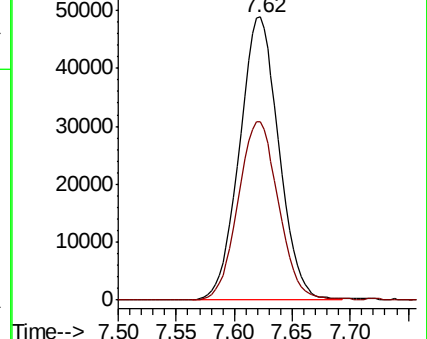
168 100

99 63.0 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#5

Bromomethane

Concen: 0.250 ug/l

RT: 2.50 min Scan# 226

Delta R.T. 0.00 min

Lab File: VN062924.D

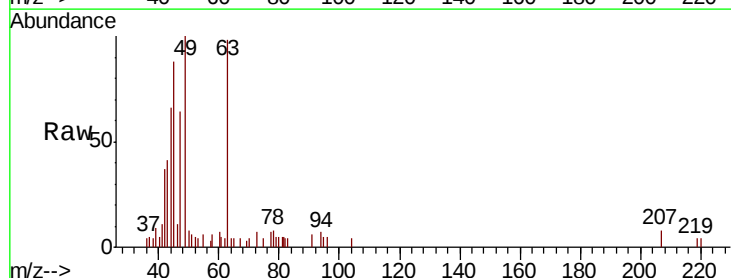
Acq: 13 Aug 2020 20:55

Tgt Ion: 94 Resp: 242

Ion Ratio Lower Upper

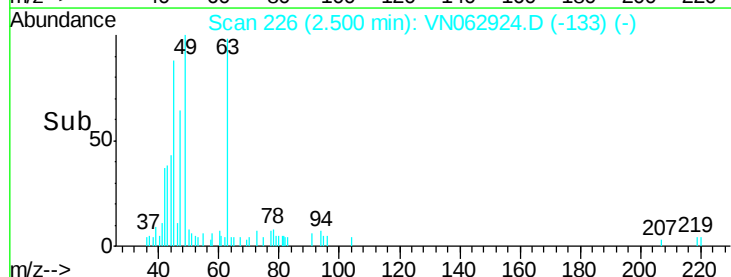
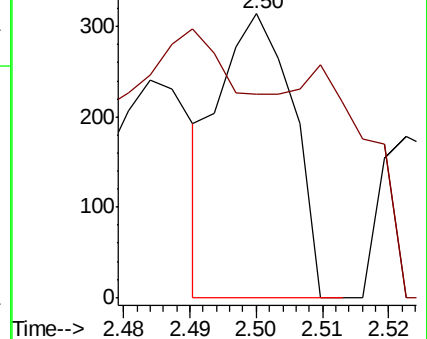
94 100

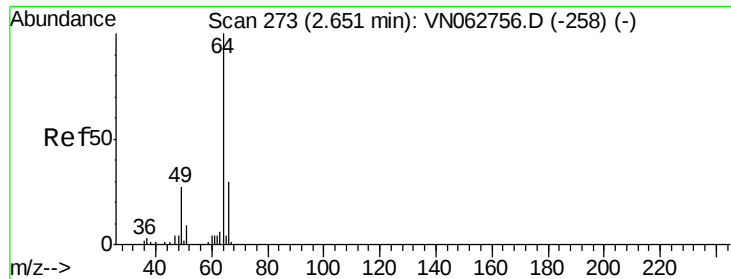
96 2.9 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN





#6

Chloroethane

Concen: 0.512 ug/l

RT: 2.61 min Scan# 261

Delta R.T. -0.04 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

Instrument :

MSVOA\_N

ClientSampled :

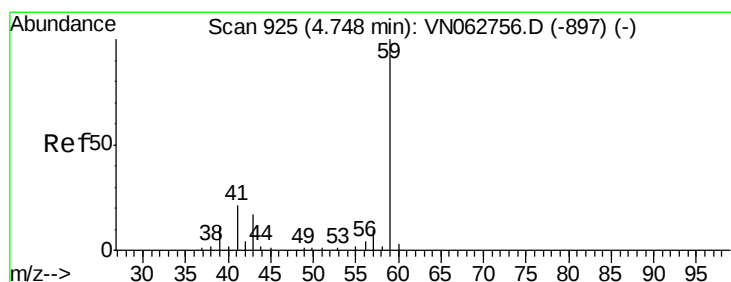
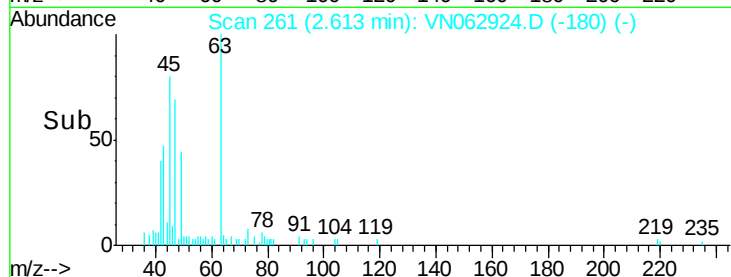
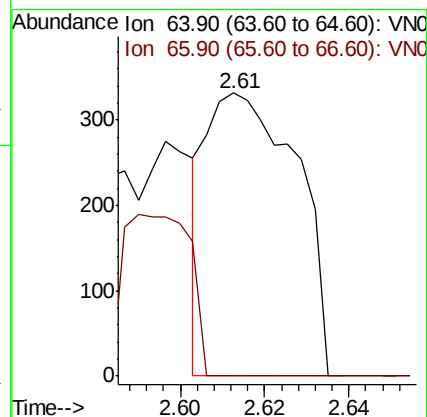
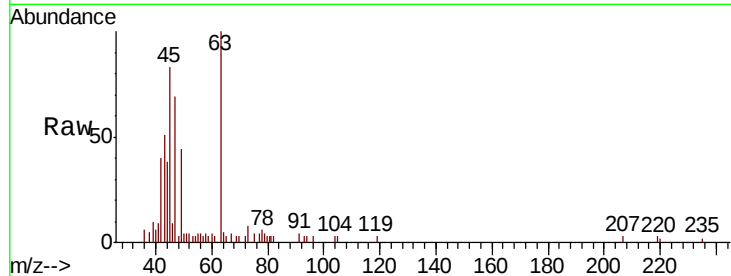
VB25984

Tot Ion: 64 Resp: 492

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#



#11

Tert butyl alcohol

Concen: 12.252 ug/l

RT: 4.68 min Scan# 905

Delta R.T. -0.06 min

Lab File: VN062924.D

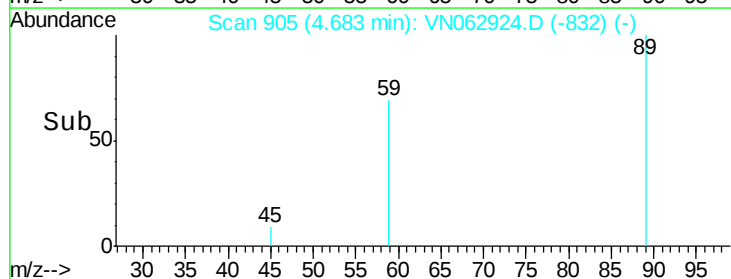
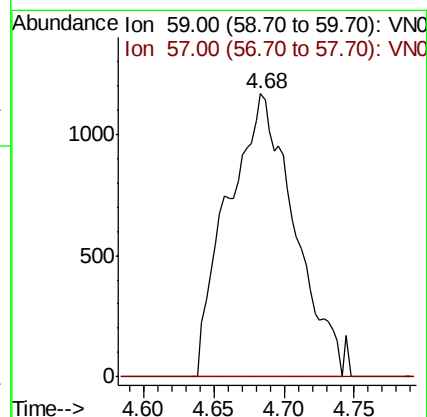
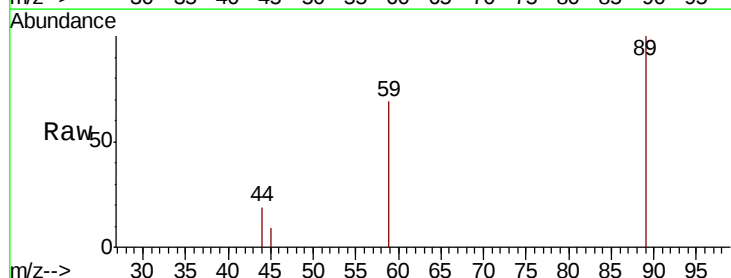
Acq: 13 Aug 2020 20:55

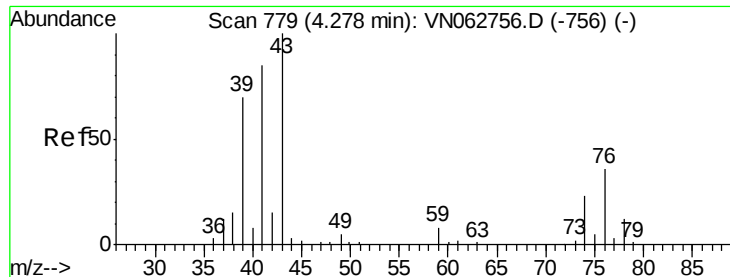
Tgt Ion: 59 Resp: 3830

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#

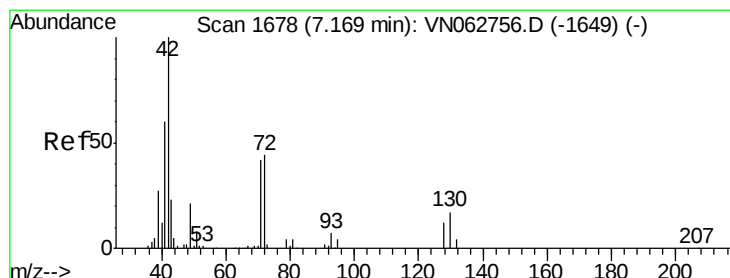
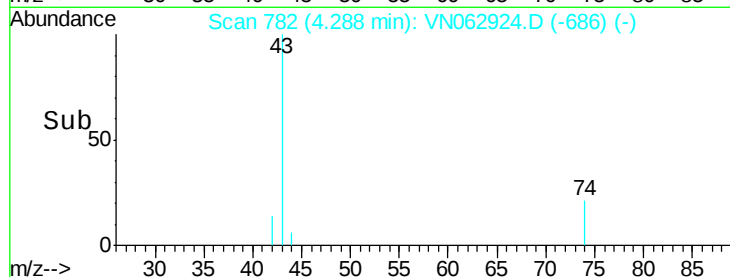
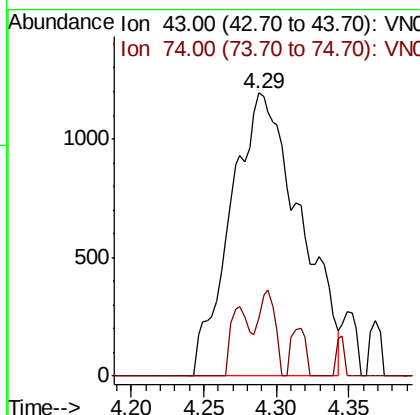
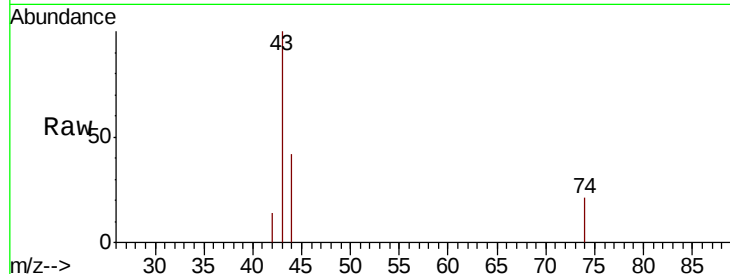




#18  
Methyl Acetate  
Concen: 1.341 ug/l  
RT: 4.29 min Scan# 782  
Delta R.T. 0.01 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

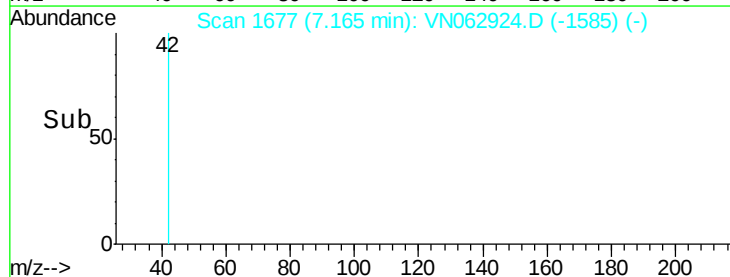
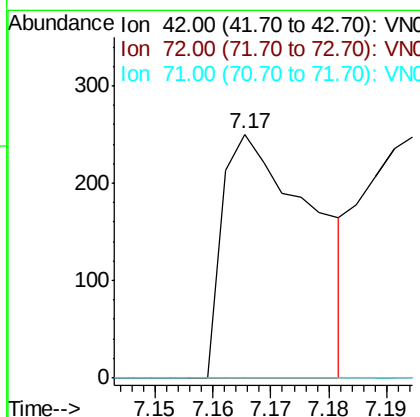
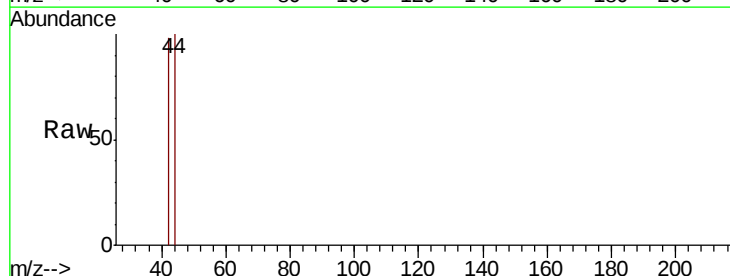
Instrument :  
MSVOA\_N  
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VB25984

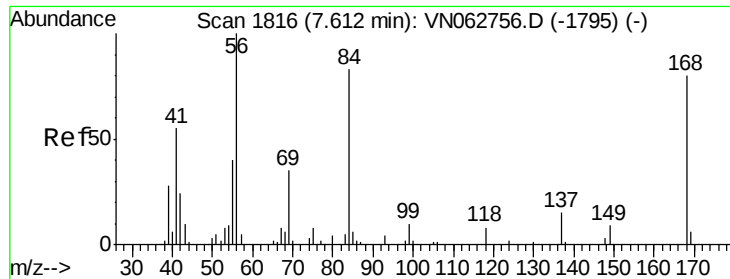
Tot Ion: 43 Resp: 3977  
Ion Ratio Lower Upper  
43 100  
74 7.0 18.6 28.0#



#29  
Tetrahydrofuran  
Concen: 0.424 ug/l  
RT: 7.17 min Scan# 1677  
Delta R.T. -0.00 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

Tgt Ion: 42 Resp: 269  
Ion Ratio Lower Upper  
42 100  
72 0.0 35.0 52.4#  
71 0.0 33.2 49.8#

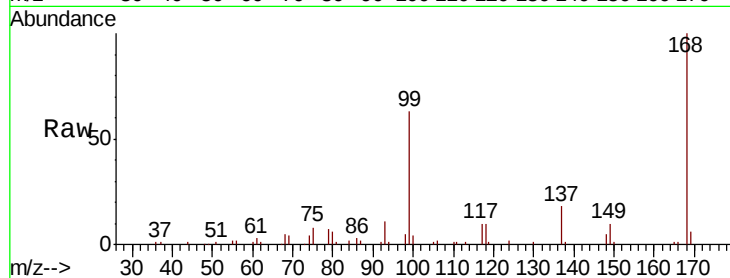




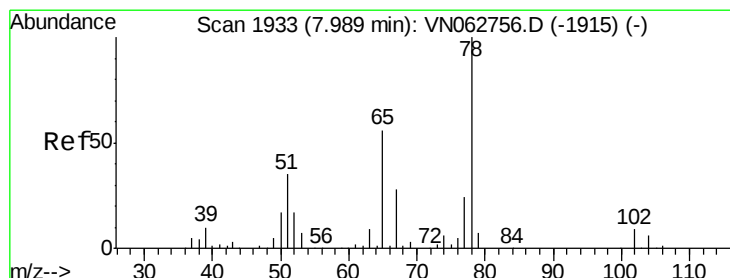
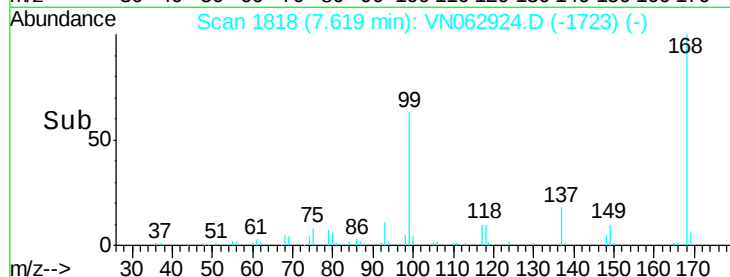
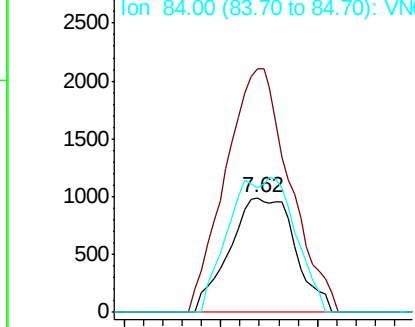
#31  
Cyclohexane  
Concen: 1.011 ug/l  
RT: 7.62 min Scan# 1816  
Delta R.T. 0.01 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VB25984

Tot Ion: 56 Resp: 2338  
Ion Ratio Lower Upper  
56 100  
69 212.6 28.1 42.1#  
84 108.7 66.8 100.2#

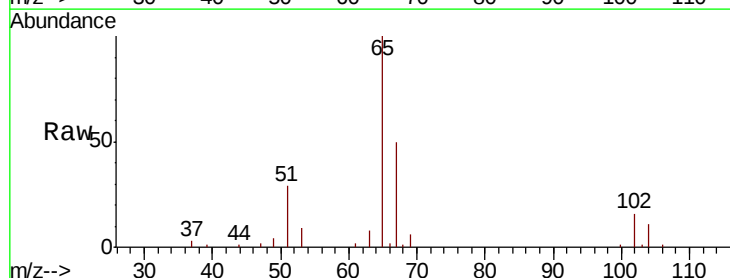


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

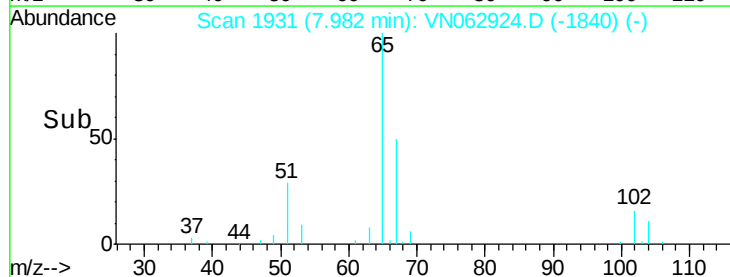
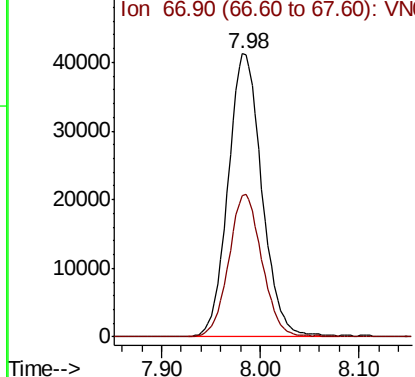


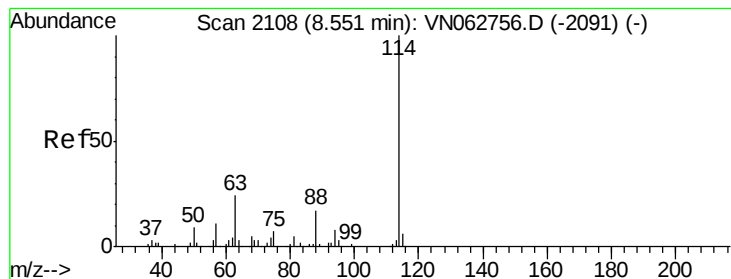
#33  
1,2-Dichloroethane-d4  
Concen: 51.679 ug/l  
RT: 7.98 min Scan# 1931  
Delta R.T. -0.01 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

Tgt Ion: 65 Resp: 98569  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 101.4



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# 2107

Delta R.T. -0.00 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

Instrument :

MSVOA\_N

ClientSampleId :

VB25984

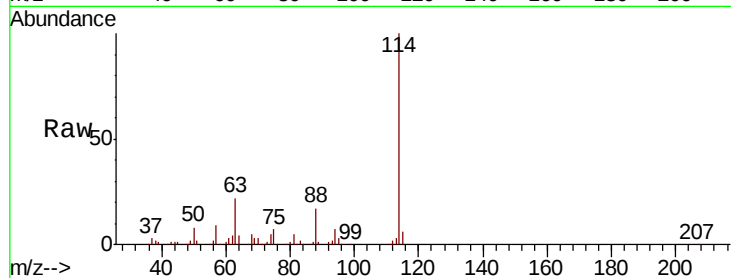
Tot Ion:114 Resp: 207995

Ion Ratio Lower Upper

114 100

63 22.2 0.0 47.6

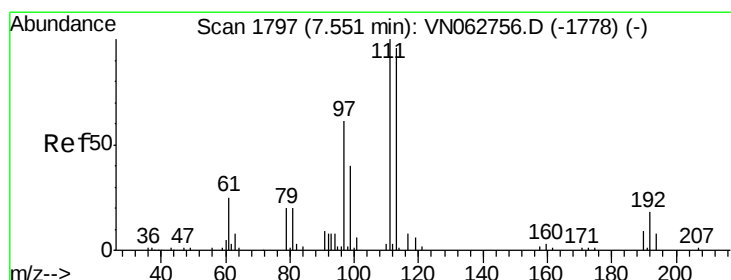
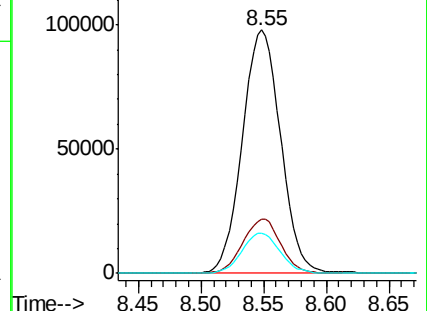
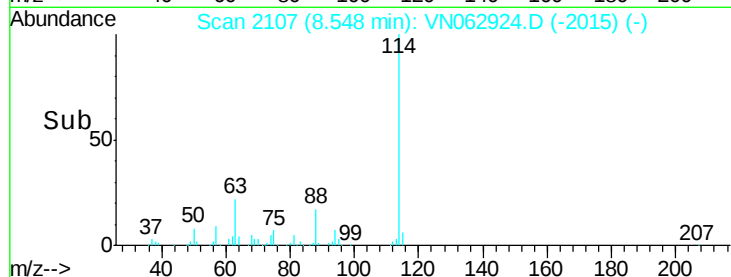
88 16.6 0.0 34.4



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: 48.030 ug/l

RT: 7.54 min Scan# 1795

Delta R.T. -0.01 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

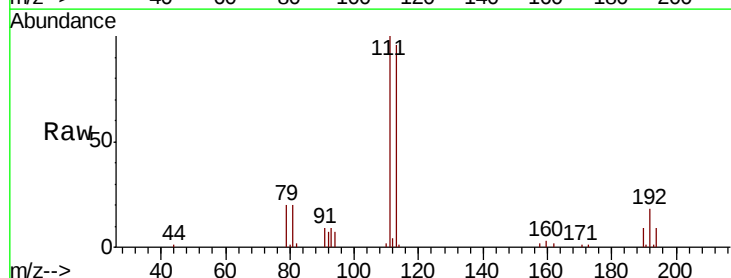
Tgt Ion:113 Resp: 68337

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.6

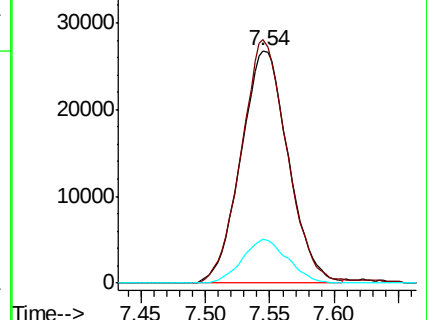
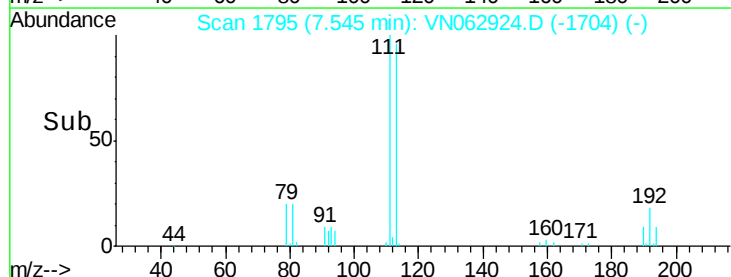
192 18.1 15.0 22.4

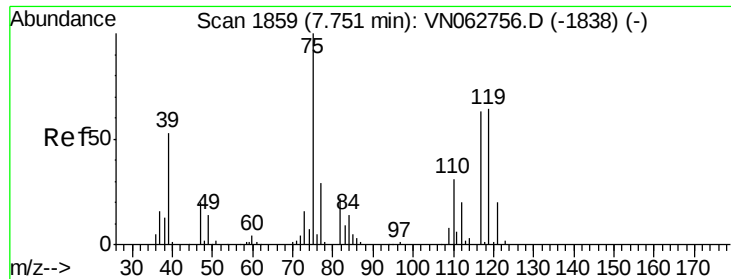


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

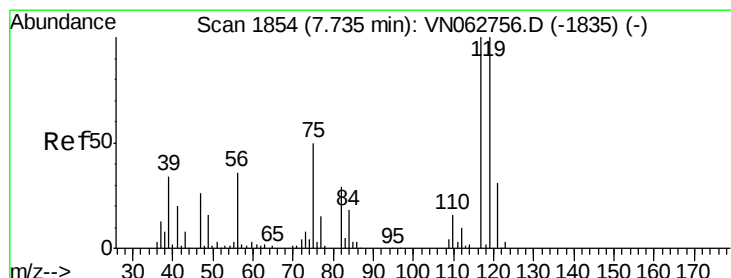
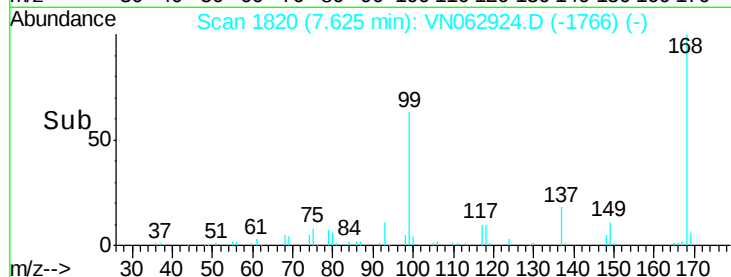
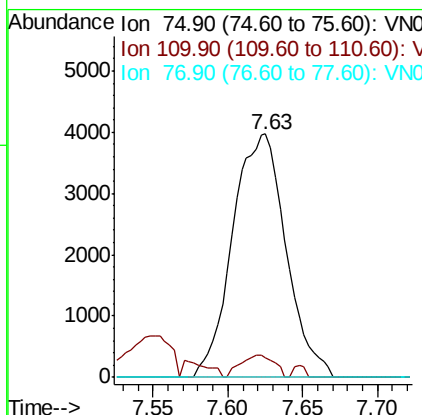
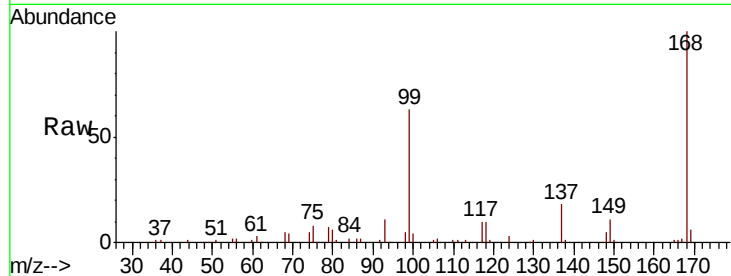




#36  
 1,1-Dichloropropene  
 Concen: 4.869 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN062924.D  
 Acq: 13 Aug 2020 20:55

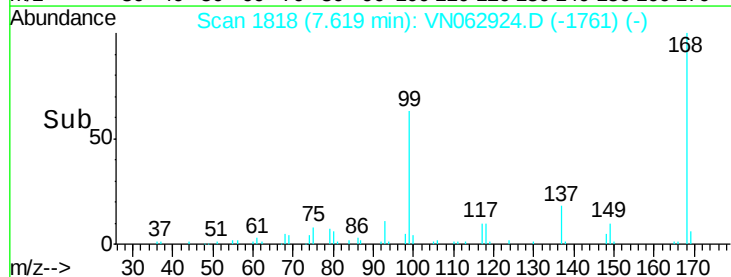
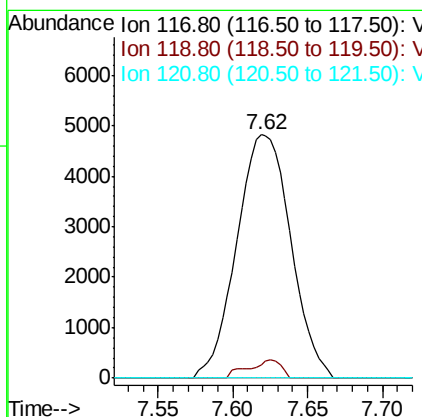
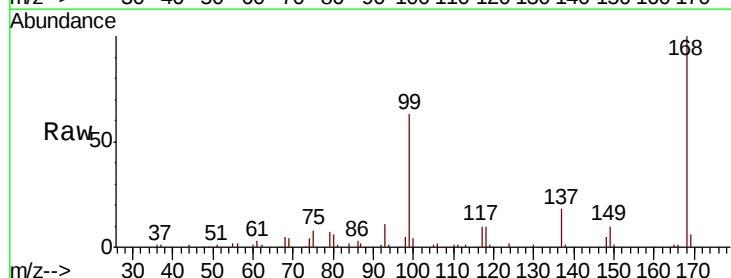
Instrument :  
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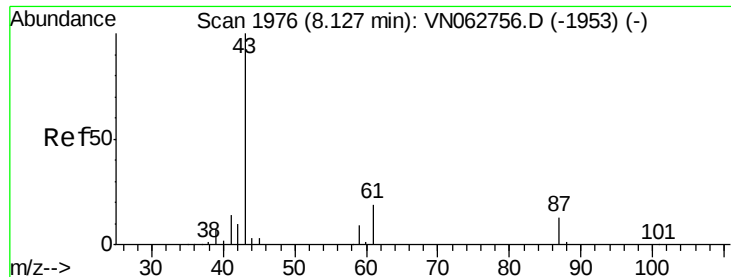
| Tot Ion   | 75    | Resp  | 9861  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 5.7   | 15.6  | 46.7# |
| 77        | 0.0   | 24.1  | 36.1# |



#38  
 Carbon Tetrachloride  
 Concen: 5.058 ug/l  
 RT: 7.62 min Scan# 1818  
 Delta R.T. -0.12 min  
 Lab File: VN062924.D  
 Acq: 13 Aug 2020 20:55

| Tgt Ion   | 117   | Resp  | 12115  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.6   | 79.4  | 119.2# |
| 121       | 0.0   | 24.9  | 37.3#  |

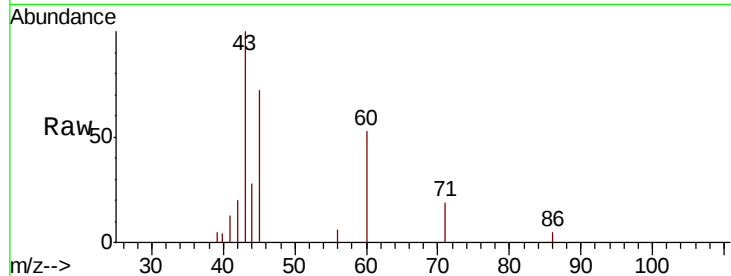




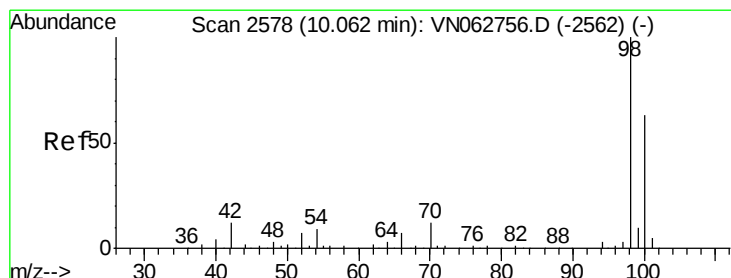
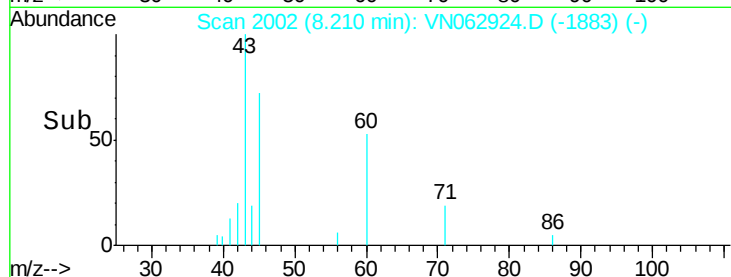
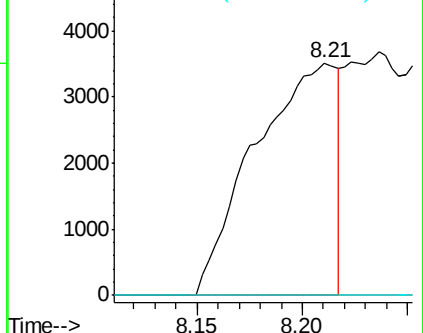
#43  
Isopropyl Acetate  
Concen: 2.700 ug/l  
RT: 8.21 min Scan# 2002  
Delta R.T. 0.08 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

Instrument :  
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Tot Ion: 43 Resp: 9526  
Ion Ratio Lower Upper  
43 100  
61 0.0 15.8 23.6#  
87 0.0 9.9 14.9#

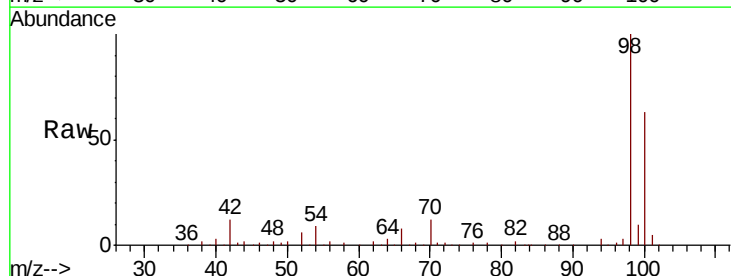


Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 61.00 (60.70 to 61.70): VN0  
Ion 87.00 (86.70 to 87.70): VN0

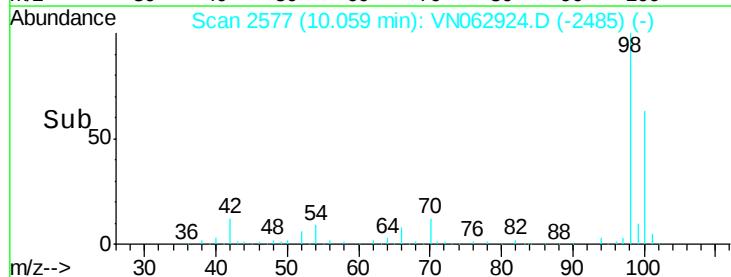
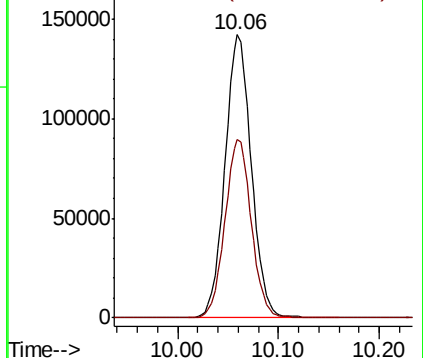


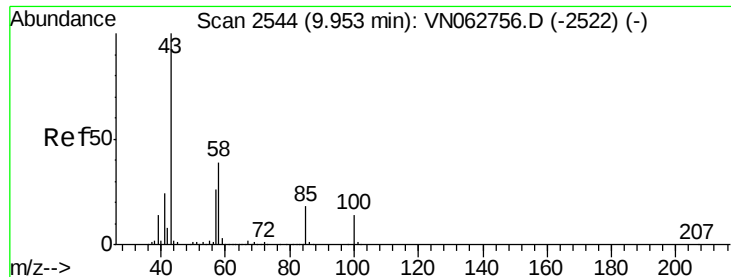
#50  
Toluene-d8  
Concen: 46.691 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. -0.00 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

Tgt Ion: 98 Resp: 259356  
Ion Ratio Lower Upper  
98 100  
100 63.0 50.9 76.3



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: 0.210 ug/l

RT: 9.96 min Scan# 2546

Delta R.T. 0.01 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

Instrument :

MSVOA\_N

ClientSampleId :

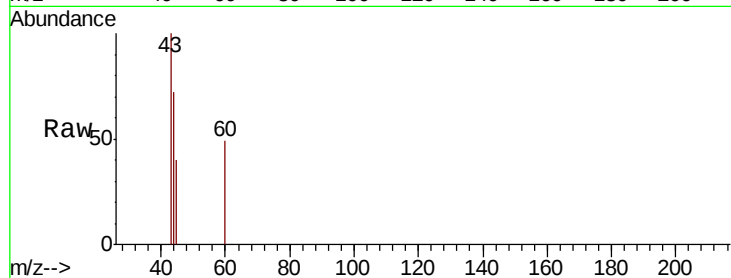
VB25984

Tot Ion: 43 Resp: 479

Ion Ratio Lower Upper

43 100

58 0.0 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062756.D (-2522) (-)

9.96

600

500

400

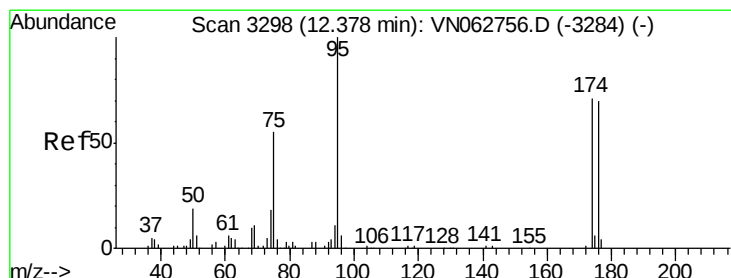
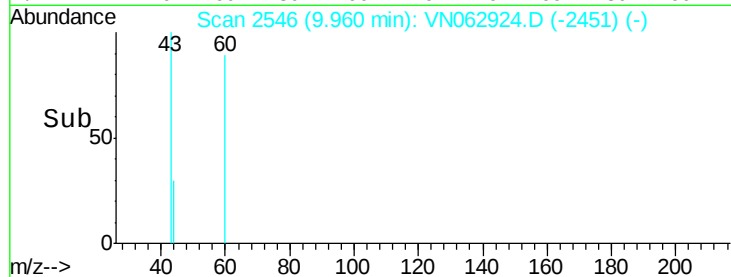
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.360 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

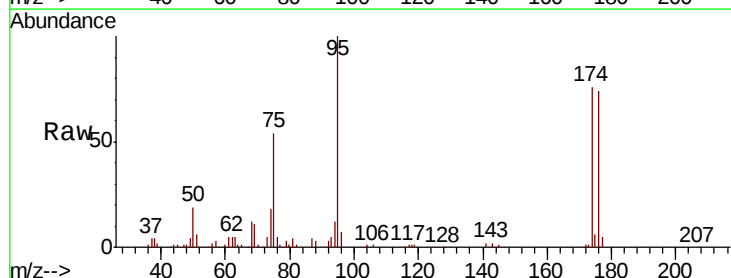
Tgt Ion: 95 Resp: 93118

Ion Ratio Lower Upper

95 100

174 76.7 0.0 144.8

176 73.1 0.0 142.2



Abundance Ion 94.90 (94.60 to 95.60): VN062756.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062756.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062756.D (-3284) (-)

12.38

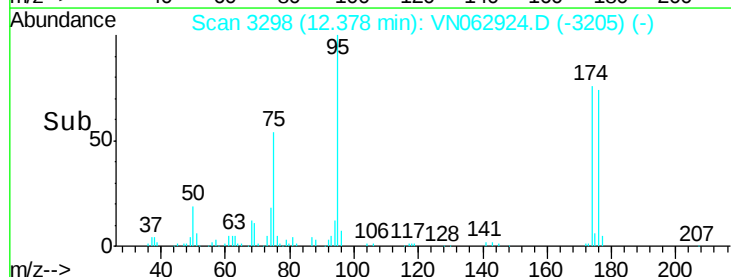
60000

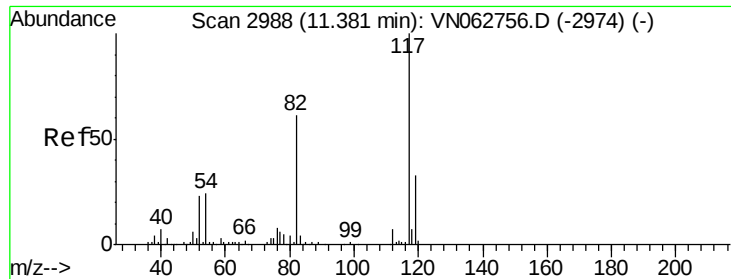
40000

20000

0

Time-->

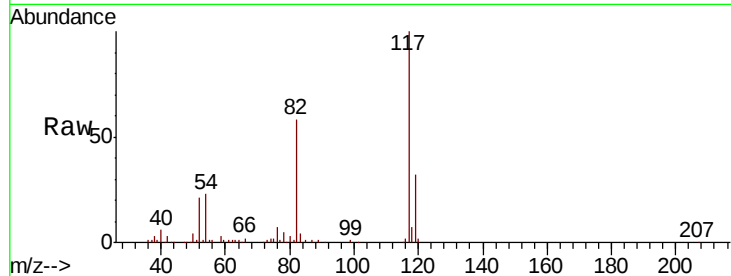




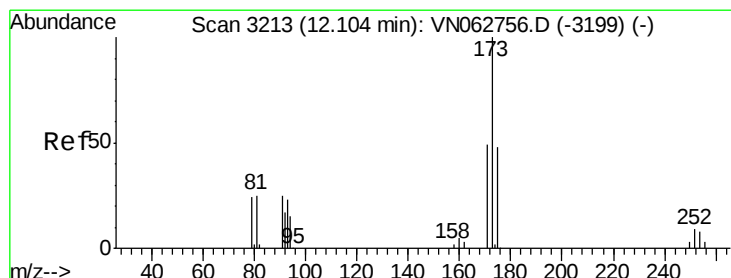
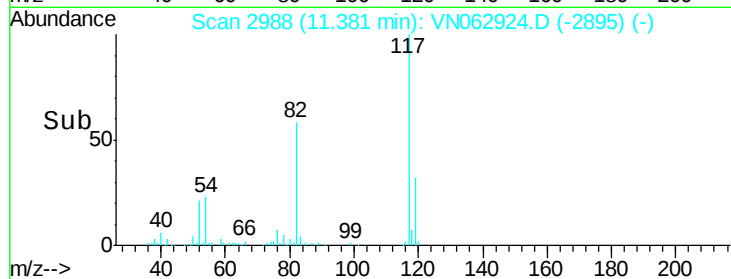
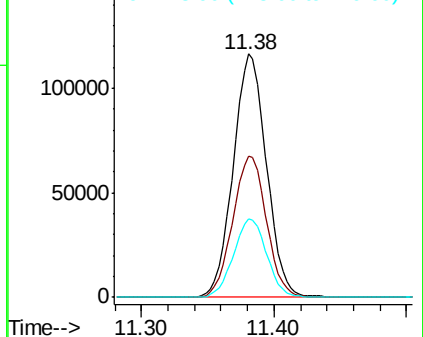
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
VB25984

Tot Ion:117 Resp: 202652  
Ion Ratio Lower Upper  
117 100  
82 58.0 49.0 73.4  
119 32.3 26.2 39.2

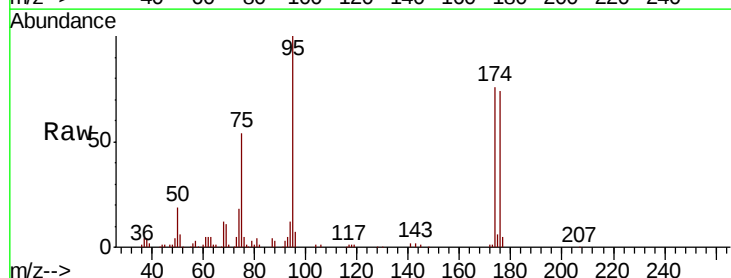


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

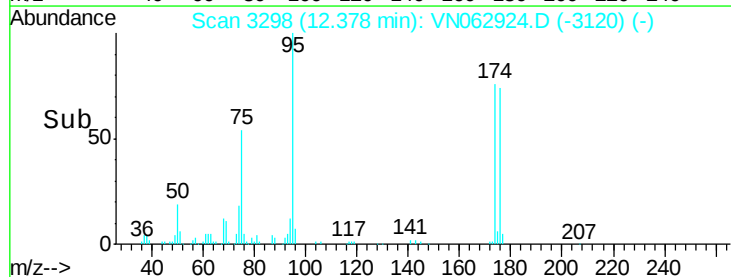
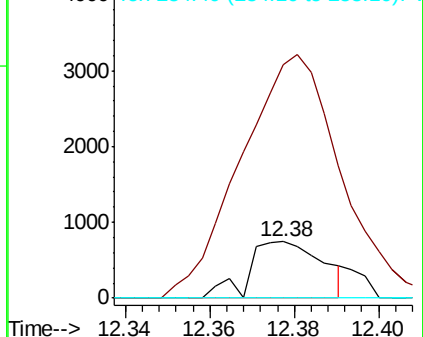


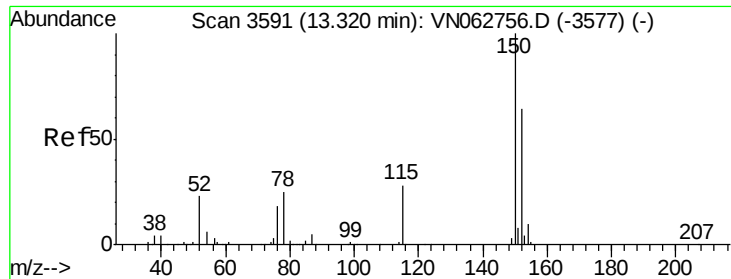
#71  
Bromoform  
Concen: 0.657 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. 0.27 min  
Lab File: VN062924.D  
Acq: 13 Aug 2020 20:55

Tgt Ion:173 Resp: 915  
Ion Ratio Lower Upper  
173 100  
175 503.7 24.0 72.0#  
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

Instrument :

MSVOA\_N

ClientSampled :

VB25984

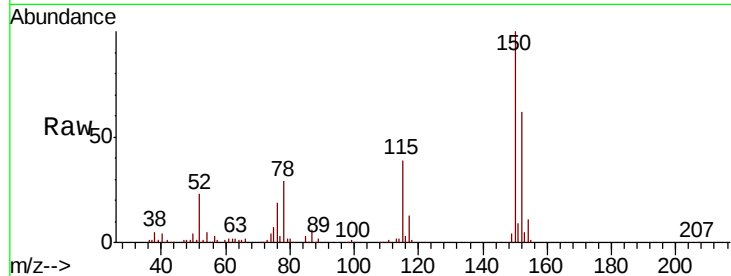
Tot Ion:152 Resp: 83029

Ion Ratio Lower Upper

152 100

115 63.0 31.6 94.8

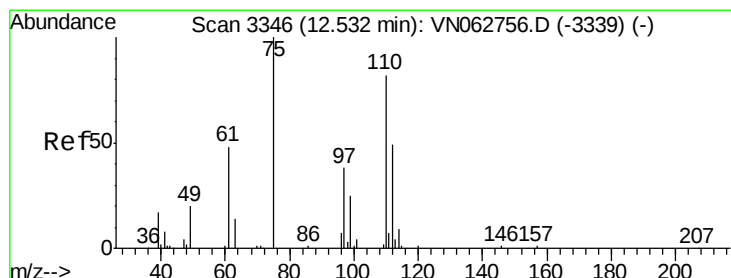
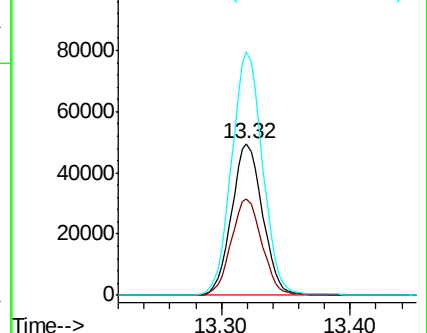
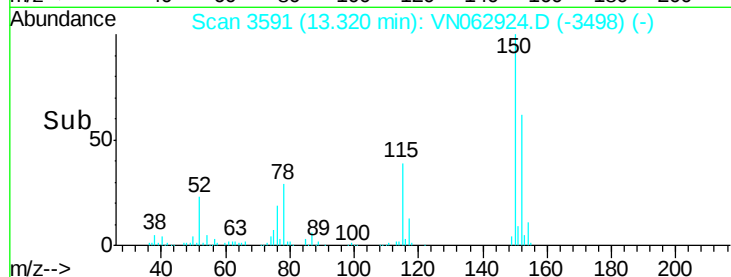
150 159.1 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.561 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062924.D

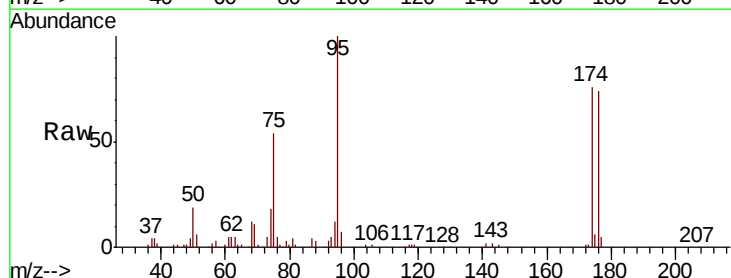
Acq: 13 Aug 2020 20:55

Tgt Ion: 75 Resp: 50519

Ion Ratio Lower Upper

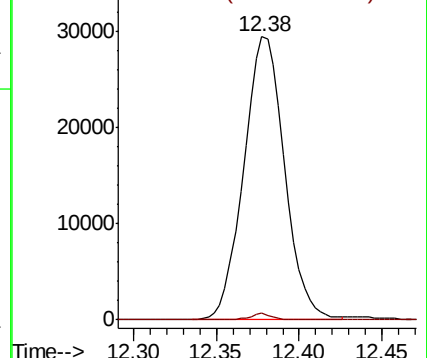
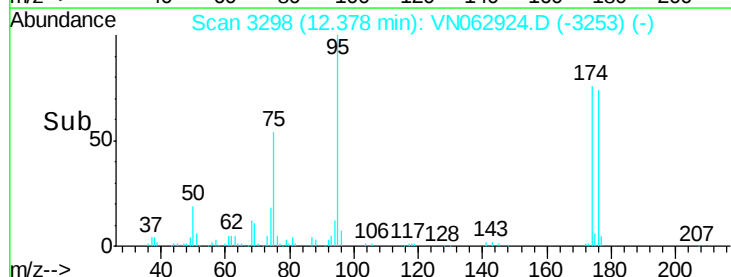
75 100

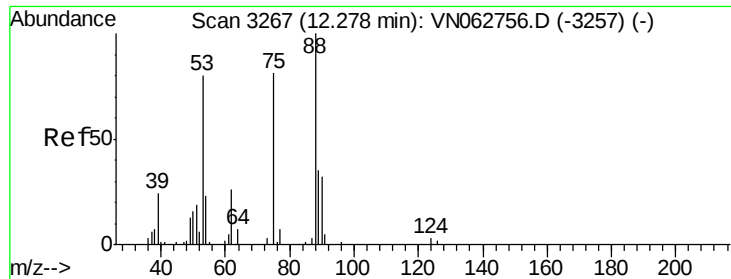
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.873 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

Instrument :

MSVOA\_N

ClientSampleId :

VB25984

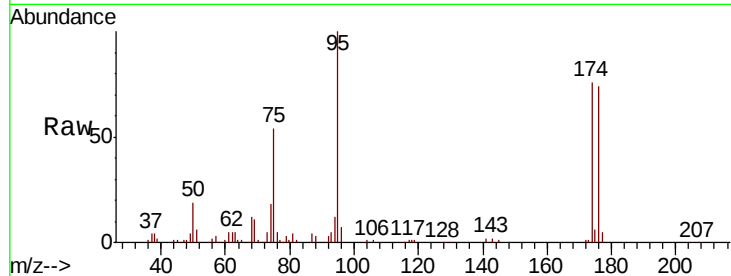
Tot Ion: 75 Resp: 50519

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

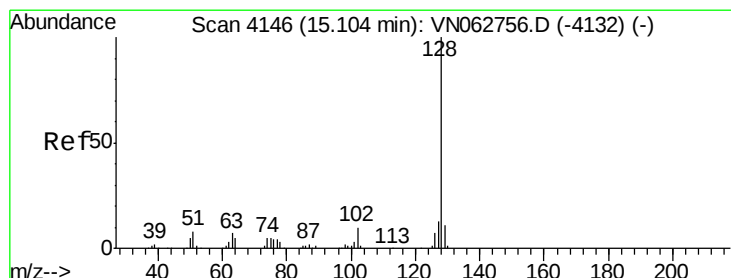
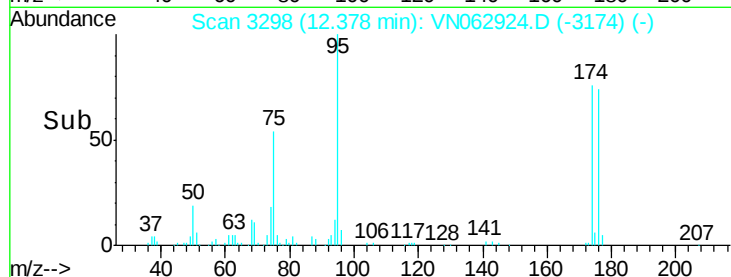
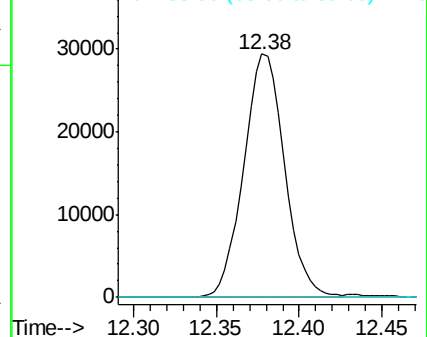
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN062924.D (-3174) (-)

Ion 53.00 (52.70 to 53.70): VN062924.D (-3174) (-)

Ion 88.90 (88.60 to 89.60): VN062924.D (-3174) (-)



#95

Naphthalene

Concen: 3.715 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062924.D

Acq: 13 Aug 2020 20:55

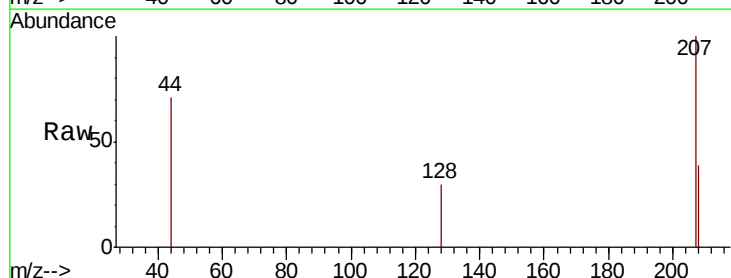
Tgt Ion: 128 Resp: 30

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN062924.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062924.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062924.D (-4053) (-)

