

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\  
 Data File : VN052837.D  
 Acq On : 12 Dec 2018 19:47  
 Operator : MD\SY  
 Sample : PB115564ZHE#01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 22 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB115564ZHE#01

Quant Time: Dec 13 04:13:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 13 01:08:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1149500  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1796287  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1655347  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 698202   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 607332   | 49.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.38%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 516484   | 51.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.02% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2221215  | 51.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.18% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 745911   | 50.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.28% |          |

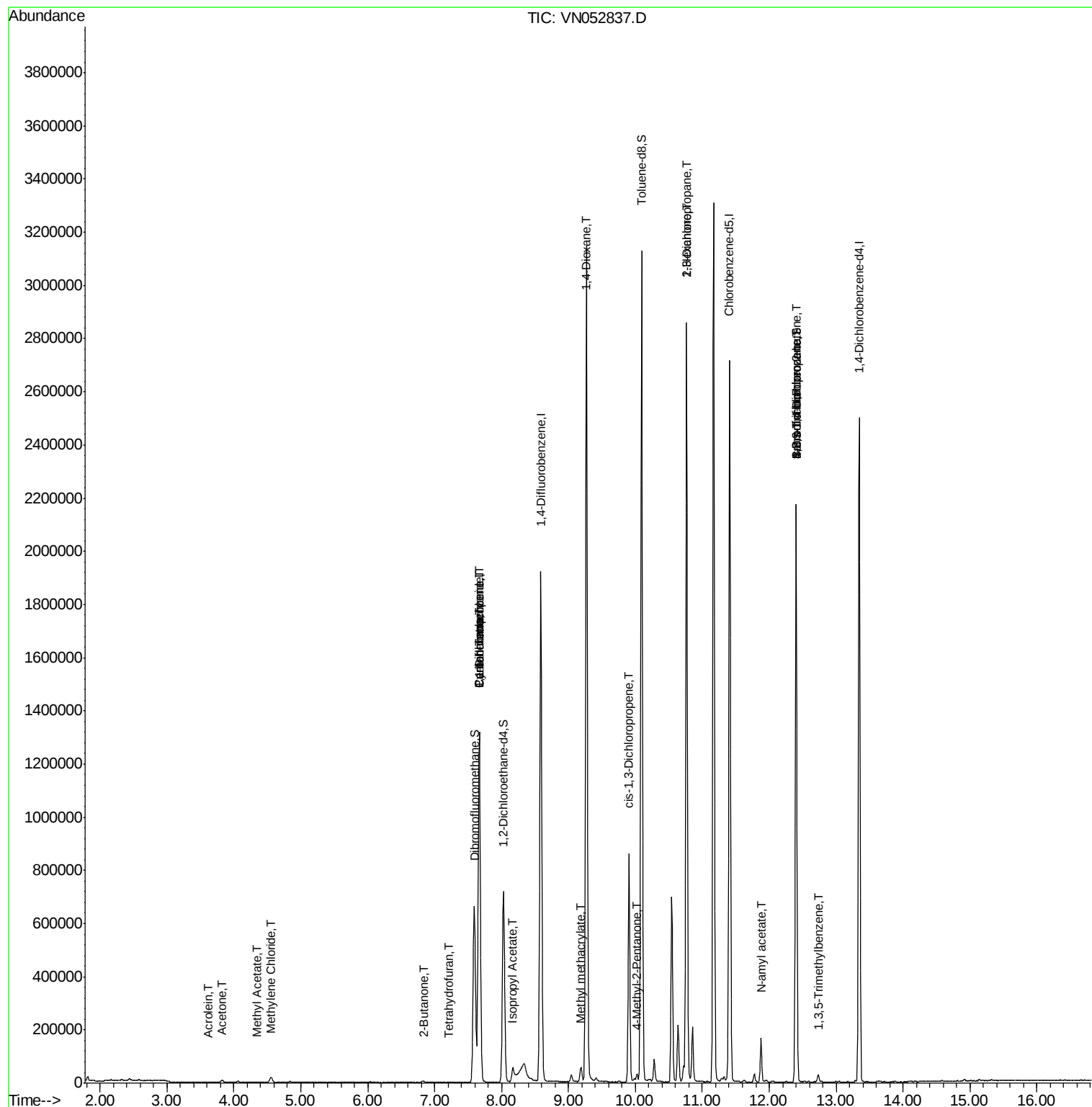
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 13) Acrolein                   | 3.60  | 56   | 336      | 0.523   | ug/l # | 25     |
| 16) Acetone                    | 3.82  | 43   | 17162    | 6.252   | ug/l   | 97     |
| 18) Methyl Acetate             | 4.34  | 43   | 4725     | 0.469   | ug/l # | 70     |
| 20) Methylene Chloride         | 4.55  | 84   | 14863    | 1.203   | ug/l   | 94     |
| 25) 2-Butanone                 | 6.84  | 43   | 1241     | 0.291   | ug/l   | 94     |
| 29) Tetrahydrofuran            | 7.21  | 42   | 899      | 0.309   | ug/l # | 43     |
| 31) Cyclohexane                | 7.67  | 56   | 19967    | 0.388   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 78721    | 4.759   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 99804    | 6.555   | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 73547    | 3.610   | ug/l # | 80     |
| 48) Methyl methacrylate        | 9.18  | 41   | 18733    | 2.097   | ug/l # | 12     |
| 49) 1,4-Dioxane                | 9.26  | 88   | 474      | 4.674   | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 10.02 | 43   | 22051    | 2.360   | ug/l # | 35     |
| 54) cis-1,3-Dichloropropene    | 9.91  | 75   | 158825   | 8.470   | ug/l # | 63     |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 28978    | 1.574   | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.76 | 43   | 418358   | 65.344  | ug/l # | 50     |
| 71) Bromoform                  | 12.41 | 173  | 4719     | 0.582   | ug/l # | 1      |
| 74) N-amyl acetate             | 11.88 | 43   | 52032    | 3.636   | ug/l # | 51     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 359372   | 34.886  | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 13867    | 0.330   | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 359372   | 112.072 | ug/l # | 12     |

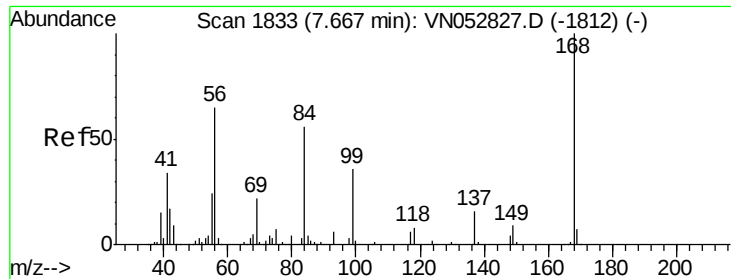
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 13 01:08:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

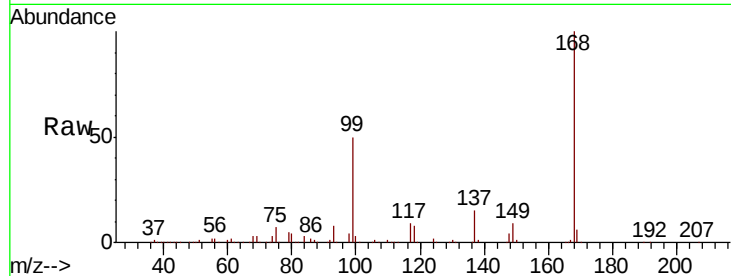
PB115564ZHE#01

Tot Ion:168 Resp: 1149500

Ion Ratio Lower Upper

168 100

99 50.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

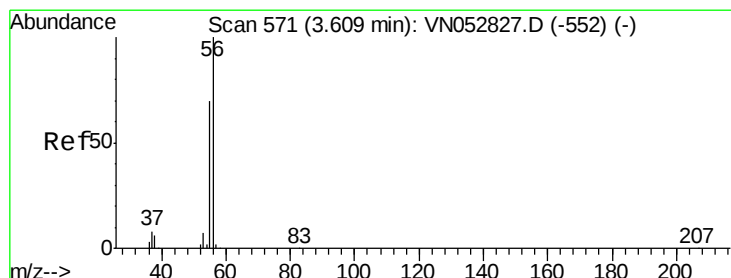
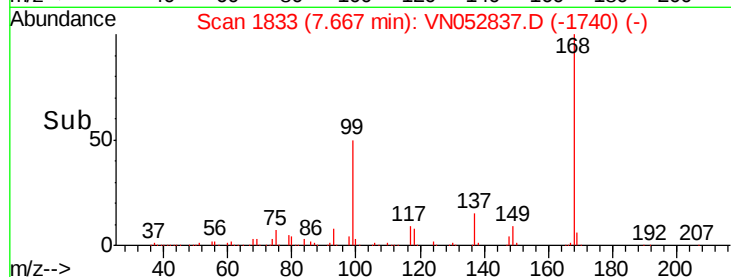
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.523 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052837.D

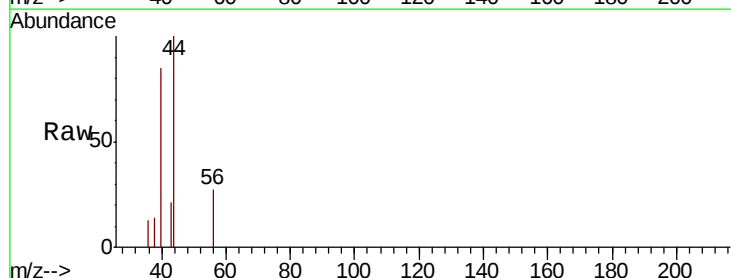
Acq: 12 Dec 2018 19:47

Tgt Ion: 56 Resp: 336

Ion Ratio Lower Upper

56 100

55 8.9 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.60

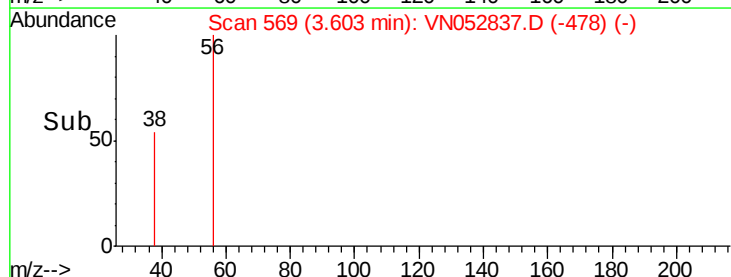
300

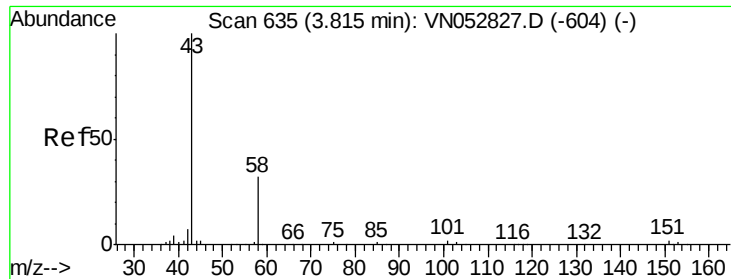
200

100

0

Time-->





#16

Acetone

Concen: 6.252 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

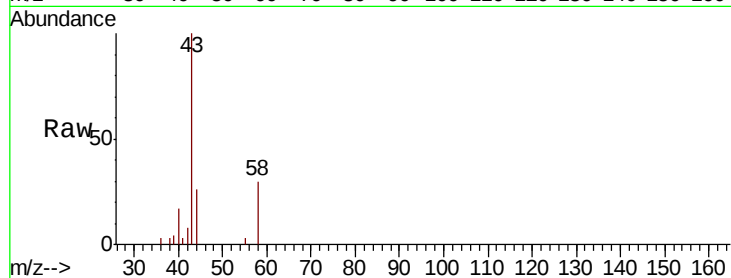
PB115564ZHE#01

Tot Ion: 43 Resp: 17162

Ion Ratio Lower Upper

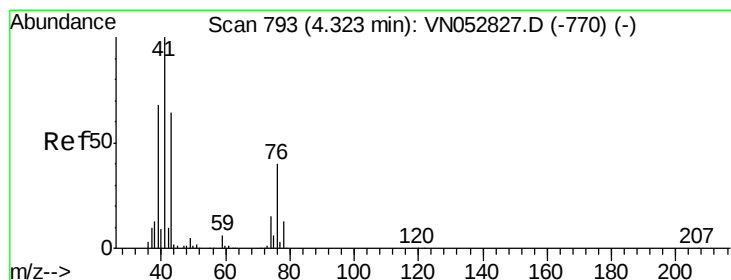
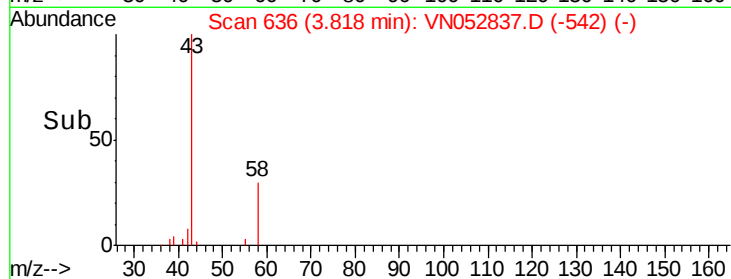
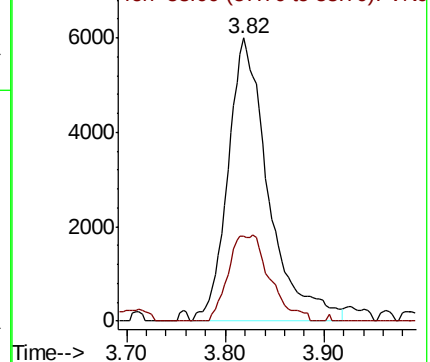
43 100

58 29.8 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.469 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN052837.D

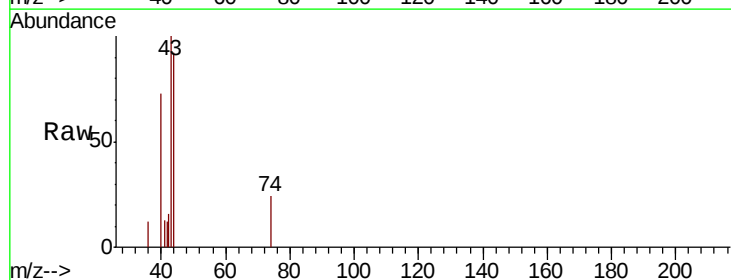
Acq: 12 Dec 2018 19:47

Tgt Ion: 43 Resp: 4725

Ion Ratio Lower Upper

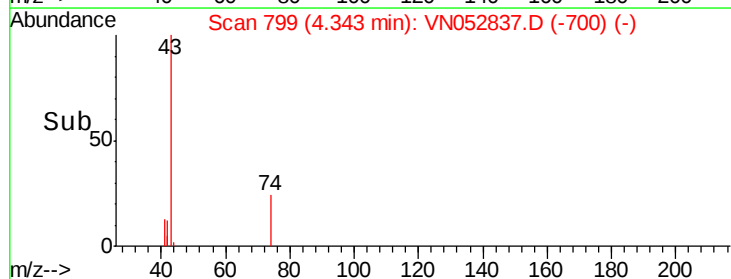
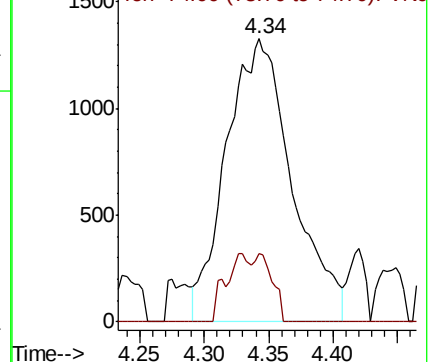
43 100

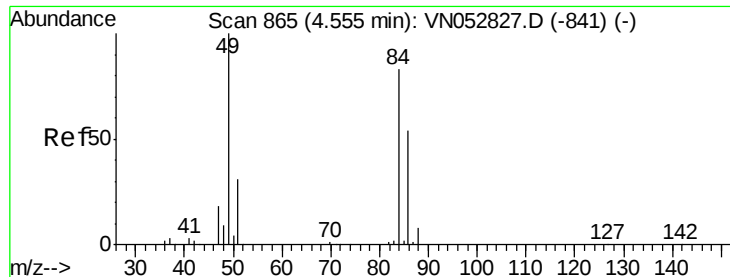
74 9.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

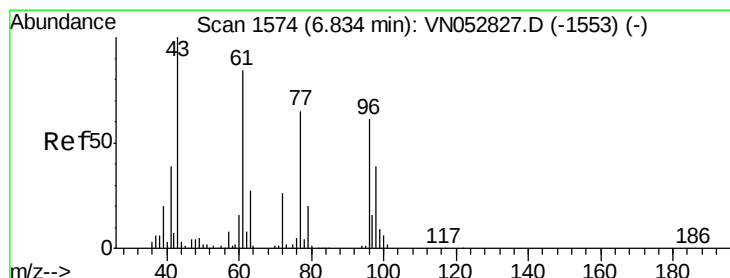
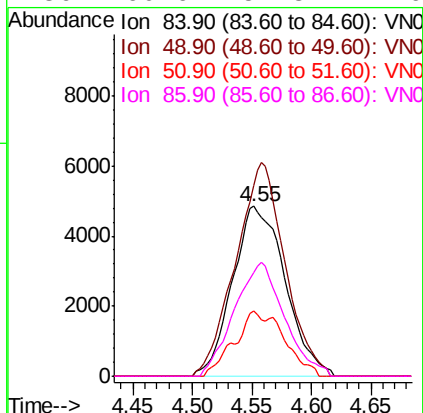
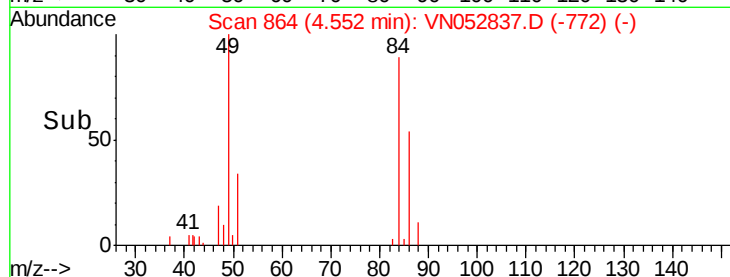
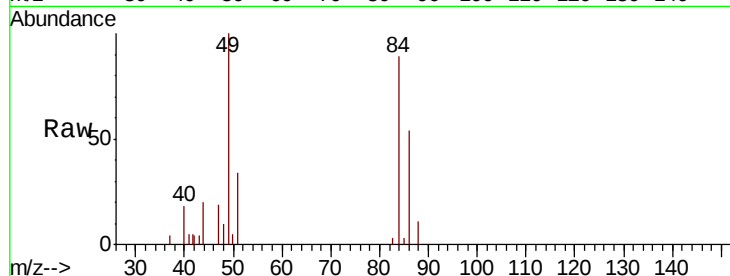




#20  
Methvlene Chloride  
Concen: 1.203 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

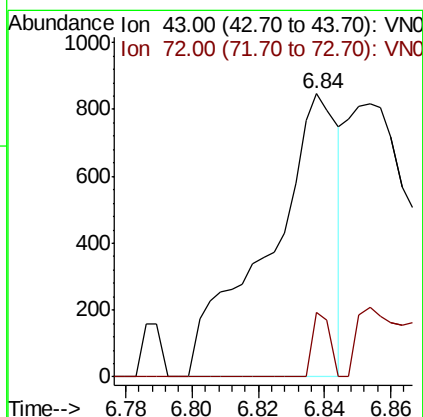
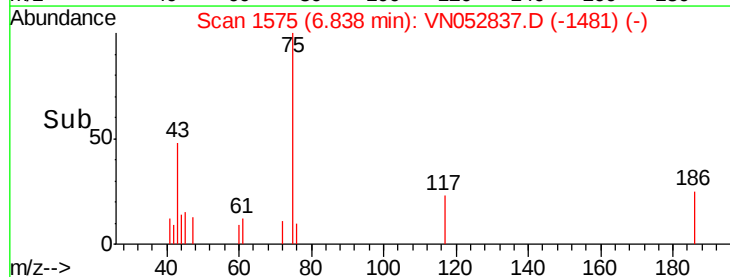
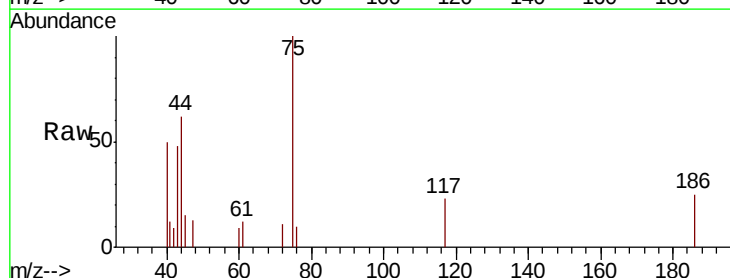
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PB115564ZHE#01

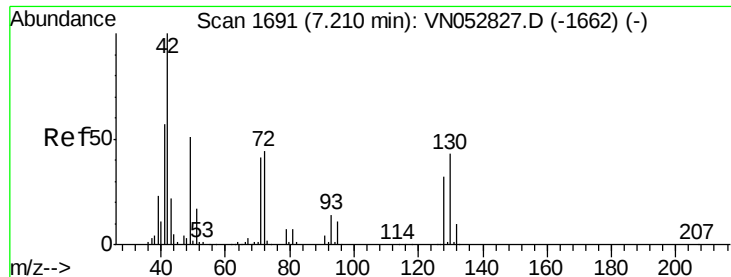
Tot Ion: 84 Resp: 14863  
Ion Ratio Lower Upper  
84 100  
49 111.8 96.8 145.2  
51 38.6 29.9 44.9  
86 60.6 51.8 77.6



#25  
2-Butanone  
Concen: 0.291 ug/l  
RT: 6.84 min Scan# 1575  
Delta R.T. 0.00 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Tgt Ion: 43 Resp: 1241  
Ion Ratio Lower Upper  
43 100  
72 23.0 21.0 31.6

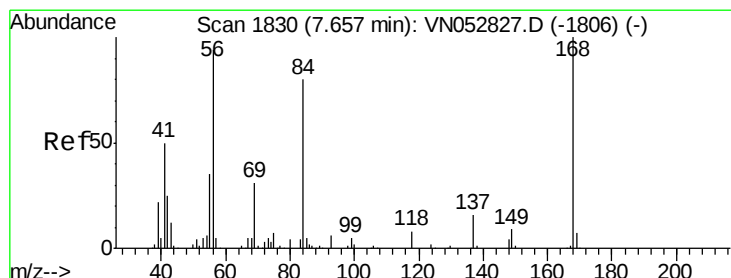
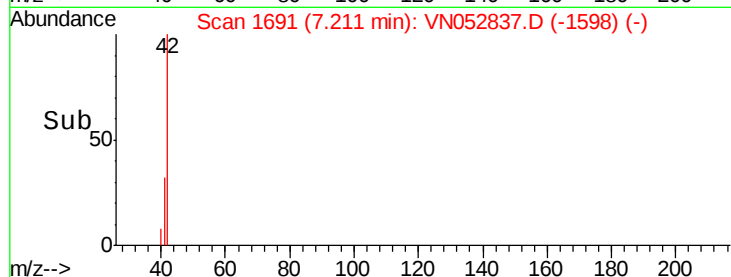
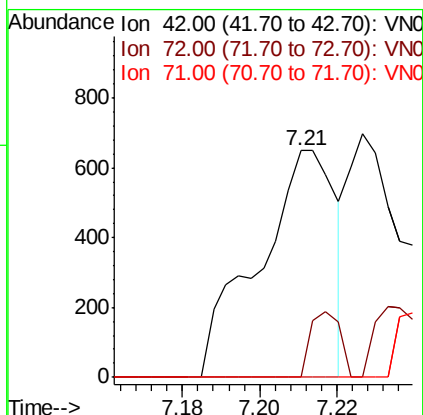
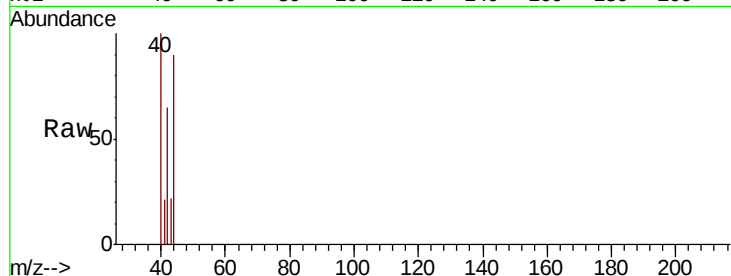




#29  
Tetrahydrofuran  
Concen: 0.309 ug/l  
RT: 7.21 min Scan# 1691  
Delta R.T. 0.00 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

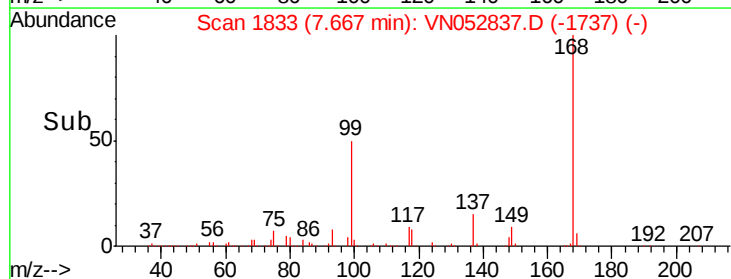
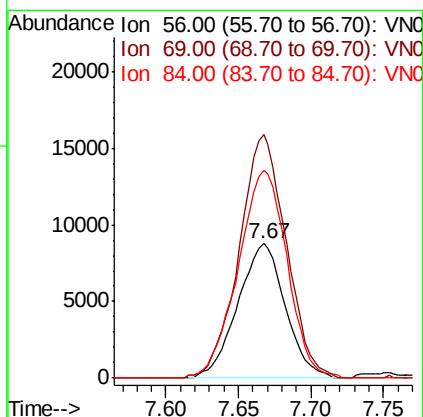
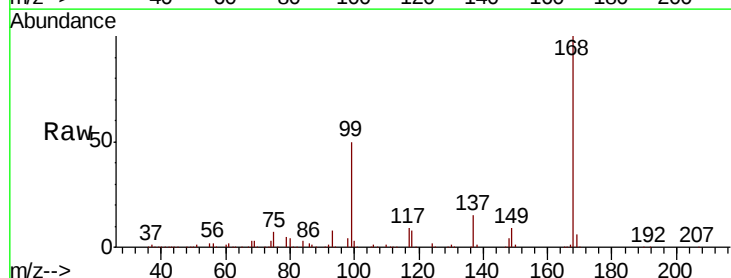
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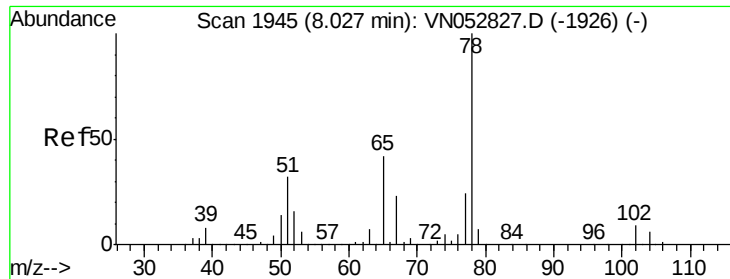
Tot Ion: 42 Resp: 899  
Ion Ratio Lower Upper  
42 100  
72 11.0 34.7 52.1#  
71 0.0 32.3 48.5#



#31  
Cyclohexane  
Concen: 0.388 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. 0.01 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Tgt Ion: 56 Resp: 19967  
Ion Ratio Lower Upper  
56 100  
69 181.2 26.6 39.8#  
84 153.0 68.4 102.6#

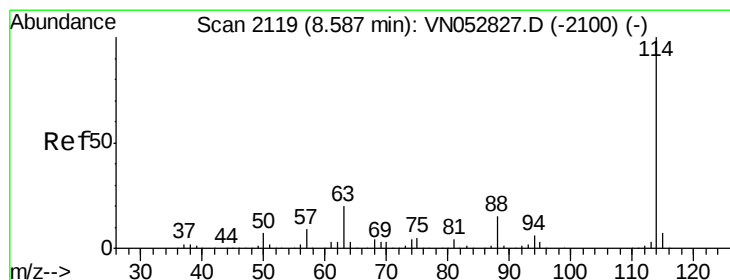
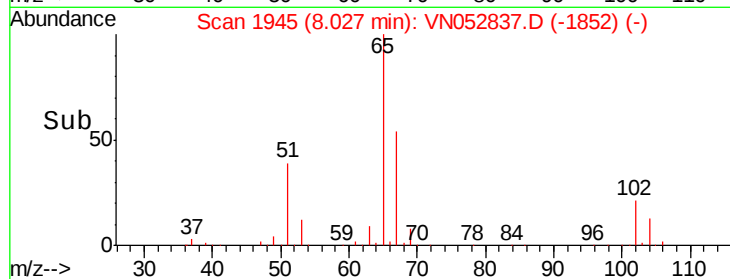
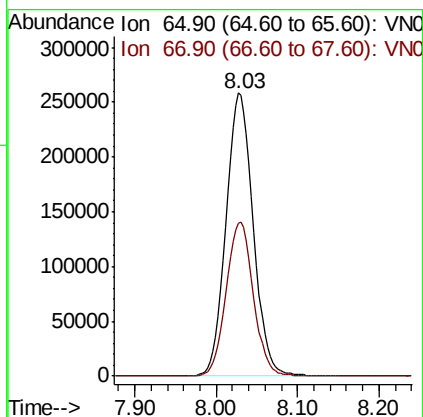
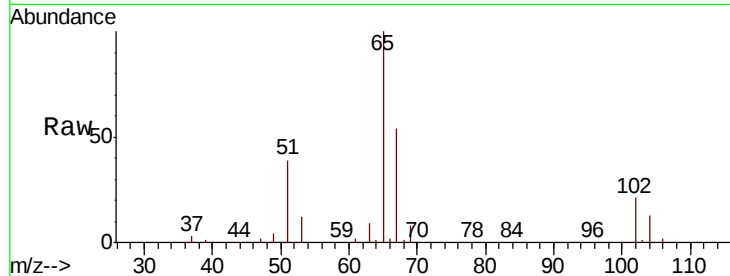




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN052837.D  
 Acq: 12 Dec 2018 19:47

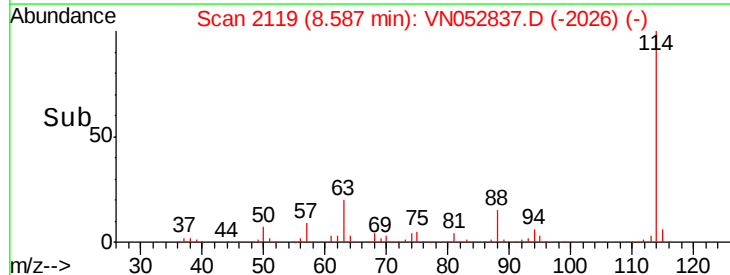
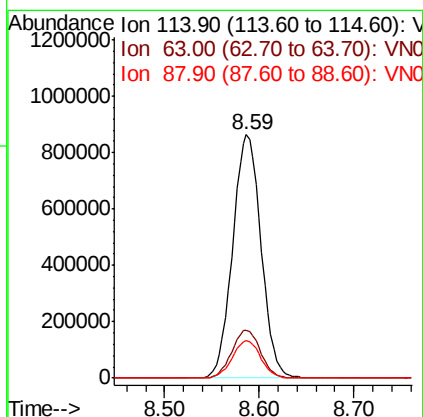
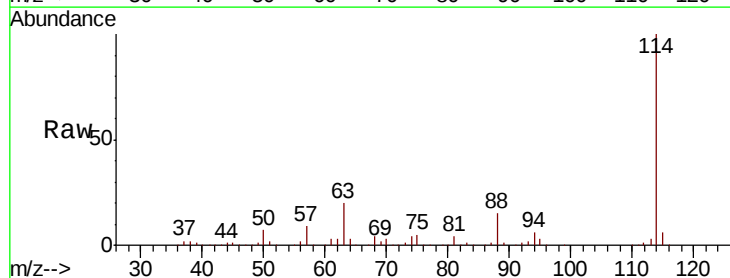
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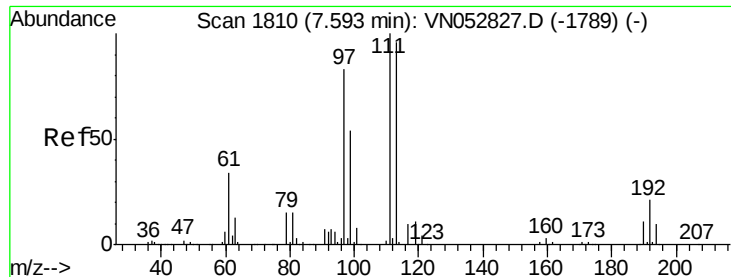
Tot Ion: 65 Resp: 607332  
 Ion Ratio Lower Upper  
 65 100  
 67 54.4 0.0 110.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN052837.D  
 Acq: 12 Dec 2018 19:47

Tgt Ion: 114 Resp: 1796287  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 39.8  
 88 15.5 0.0 31.0

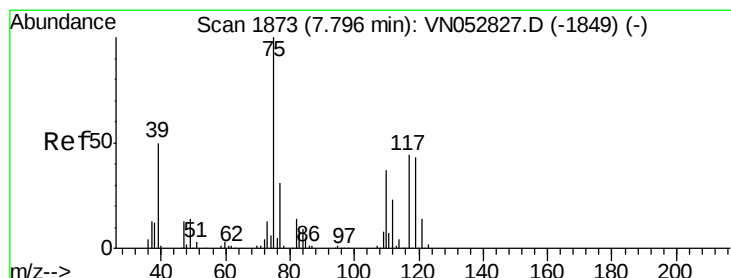
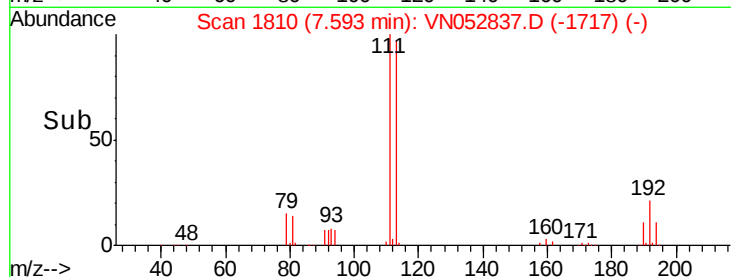
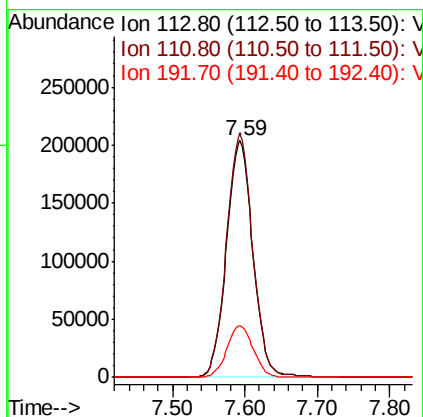
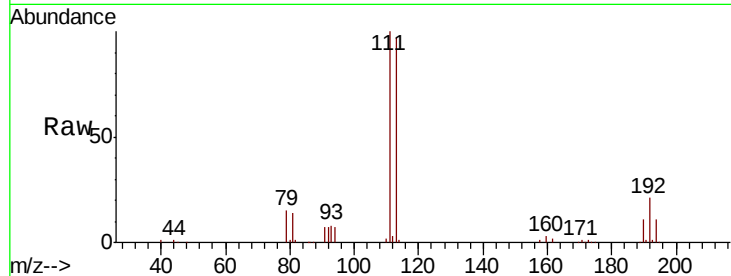




#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 7.59 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

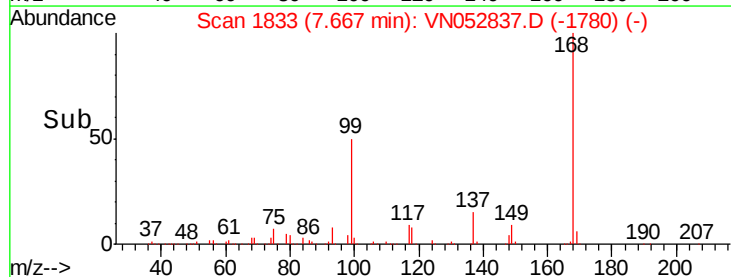
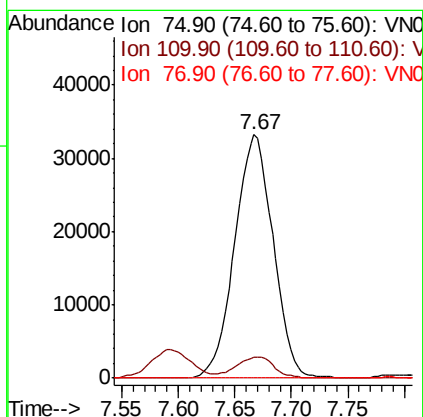
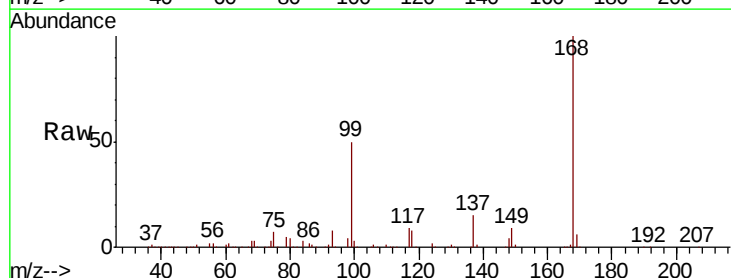
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MSVOA\_N  
ClientSampleId :  
PB115564ZHE#01

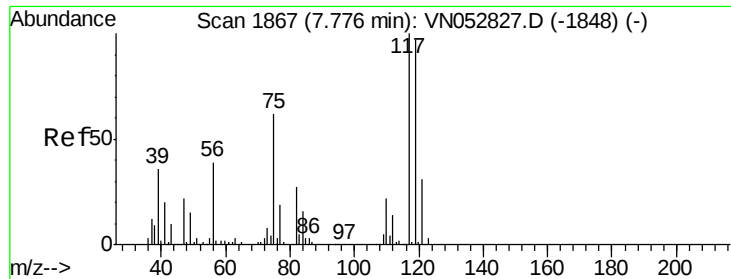
Tot Ion:113 Resp: 516484  
Ion Ratio Lower Upper  
113 100  
111 102.6 83.0 124.4  
192 21.9 17.5 26.3



#36  
1,1-Dichloropropene  
Concen: 4.759 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. -0.13 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Tgt Ion: 75 Resp: 78721  
Ion Ratio Lower Upper  
75 100  
110 8.5 18.2 54.6#  
77 0.0 24.9 37.3#

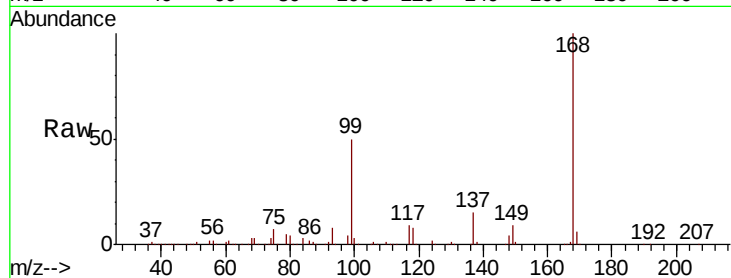




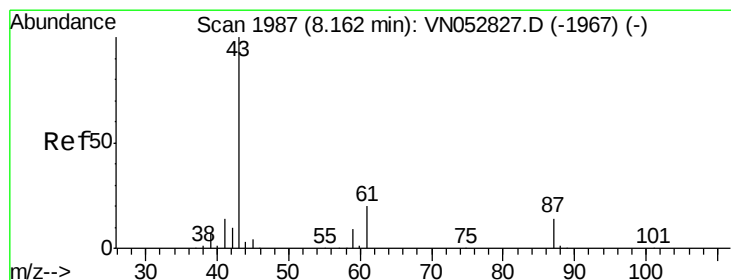
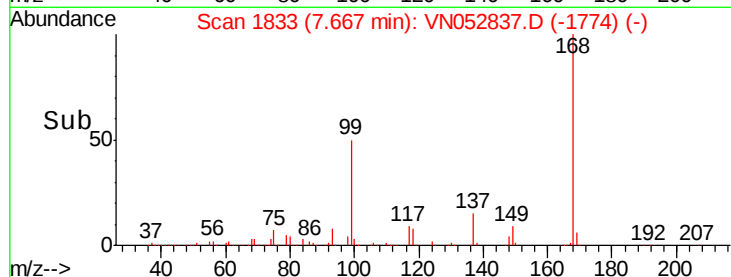
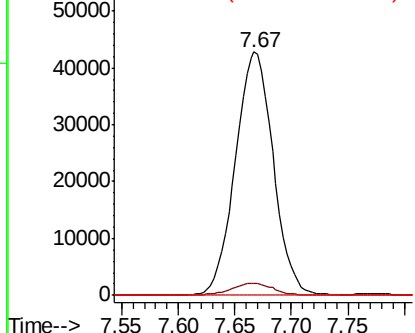
#38  
Carbon Tetrachloride  
Concen: 6.555 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. -0.11 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB115564ZHE#01

Tot Ion:117 Resp: 99804  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.1 115.7#  
121 0.0 24.9 37.3#

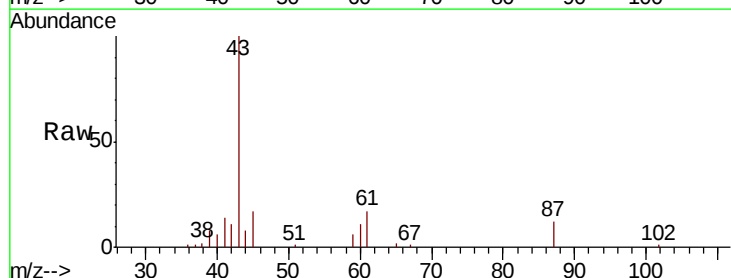


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

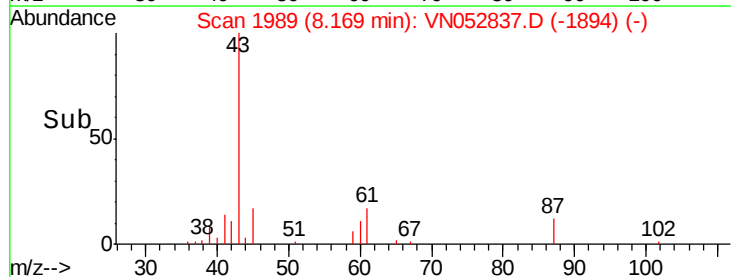
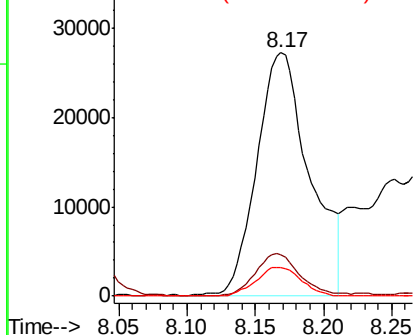


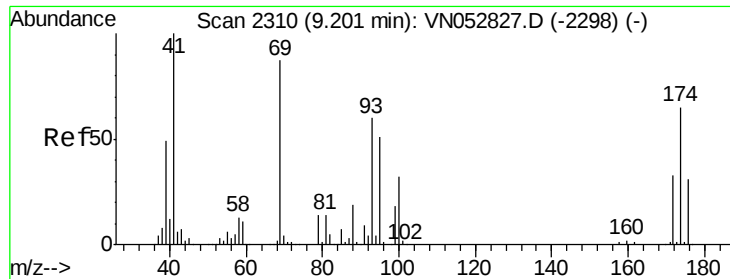
#43  
Isopropyl Acetate  
Concen: 3.610 ug/l  
RT: 8.17 min Scan# 1989  
Delta R.T. 0.01 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Tgt Ion: 43 Resp: 73547  
Ion Ratio Lower Upper  
43 100  
61 14.8 22.9 34.3#  
87 10.0 10.6 15.8#



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

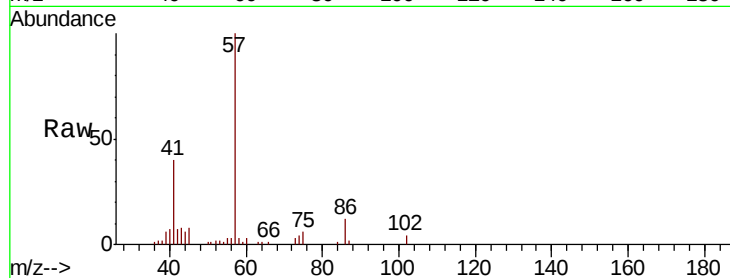




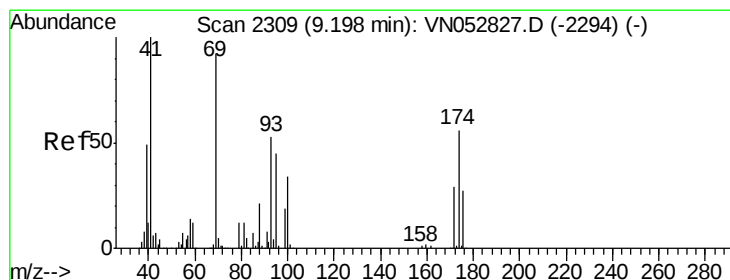
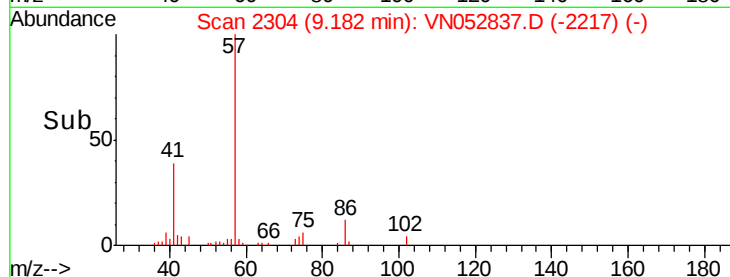
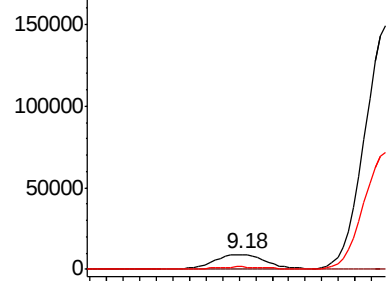
#48  
Methvl methacrylate  
Concen: 2.097 ug/l  
RT: 9.18 min Scan# 2304  
Delta R.T. -0.02 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB115564ZHE#01

Tot Ion: 41 Resp: 18733  
Ion Ratio Lower Upper  
41 100  
69 0.0 72.2 108.2#  
39 0.0 41.9 62.9#

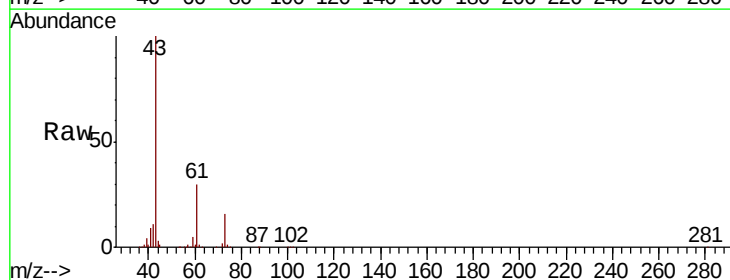


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

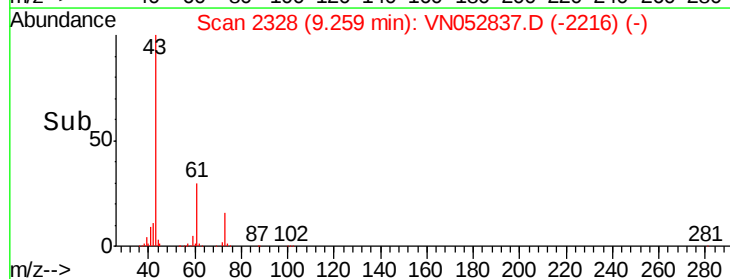
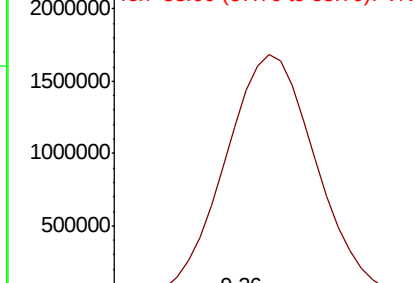


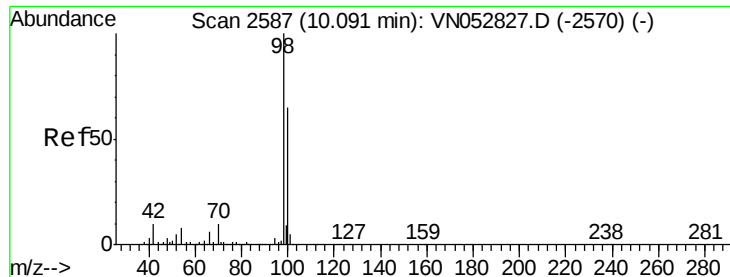
#49  
1,4-Dioxane  
Concen: 4.674 ug/l  
RT: 9.26 min Scan# 2328  
Delta R.T. 0.06 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Tgt Ion: 88 Resp: 474  
Ion Ratio Lower Upper  
88 100  
43 644018.6 26.6 40.0#  
58 2760.1 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 4.674 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

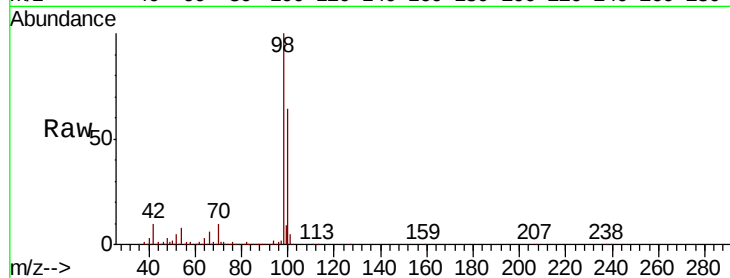
PB115564ZHE#01

Tot Ion: 98 Resp: 2221215

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052827.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052827.D (-2570) (-)

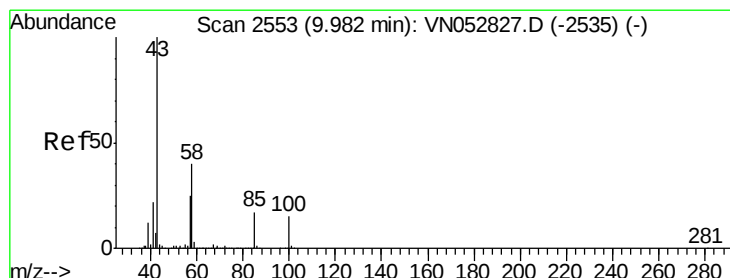
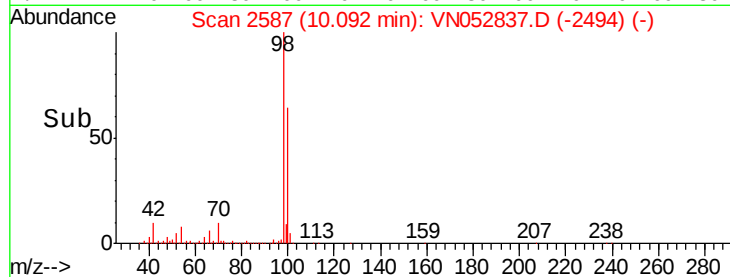
10.09

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.360 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052837.D

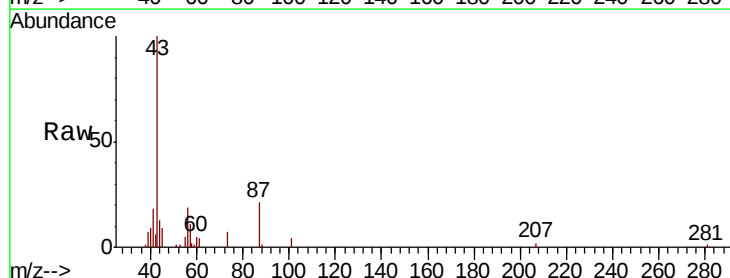
Acq: 12 Dec 2018 19:47

Tgt Ion: 43 Resp: 22051

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN052827.D (-2535) (-)

10.02

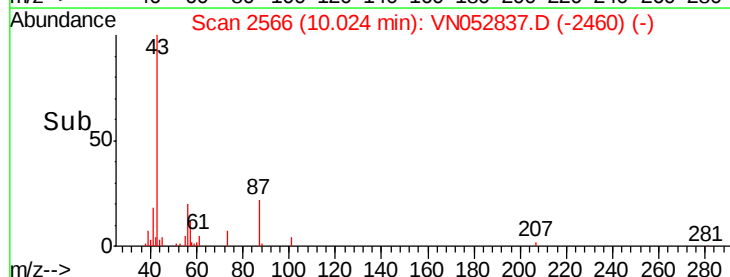
15000

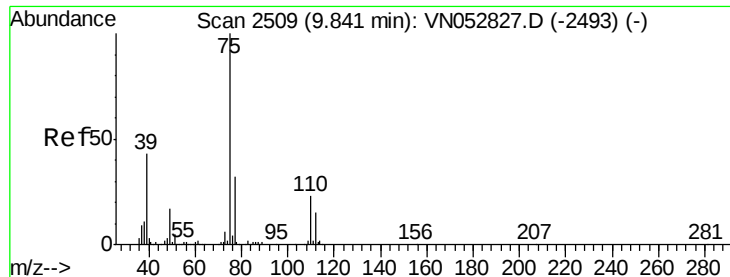
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 8.470 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

PB115564ZHE#01

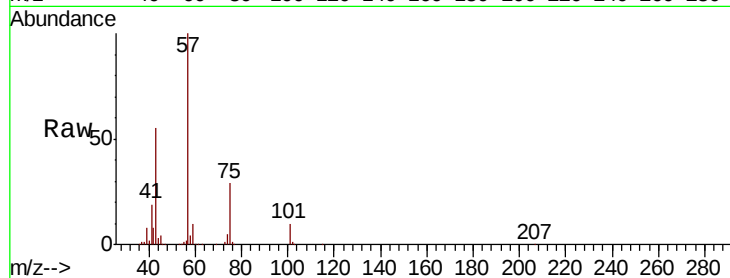
Tot Ion: 75 Resp: 158825

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.8#

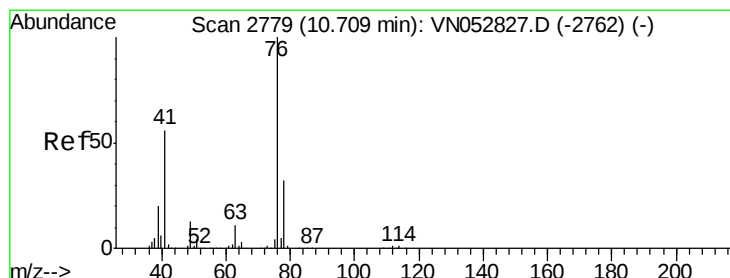
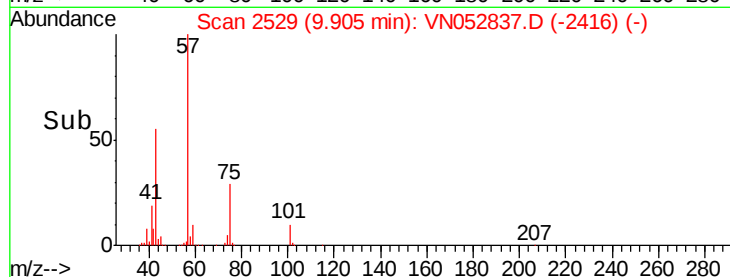
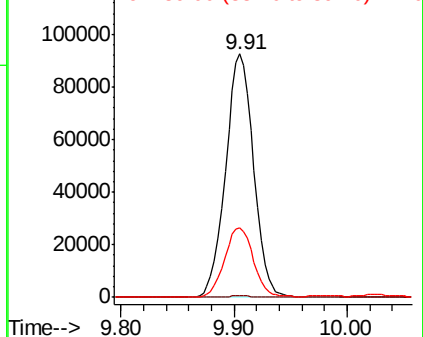
39 28.4 34.8 52.2#



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



#57

1,3-Dichloropropane

Concen: 1.574 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052837.D

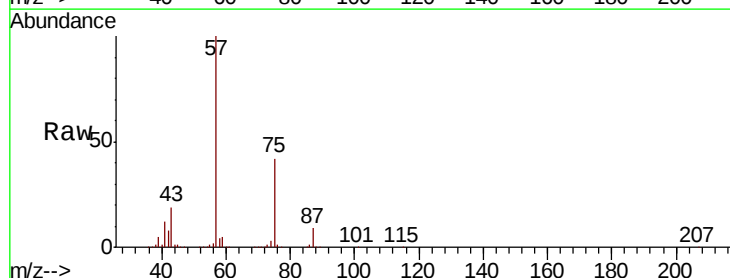
Acq: 12 Dec 2018 19:47

Tgt Ion: 76 Resp: 28978

Ion Ratio Lower Upper

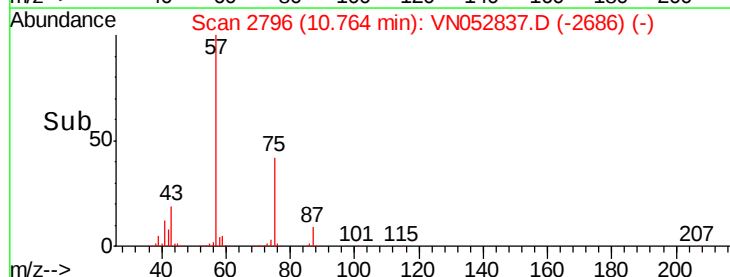
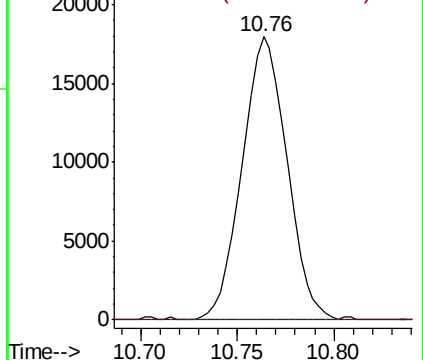
76 100

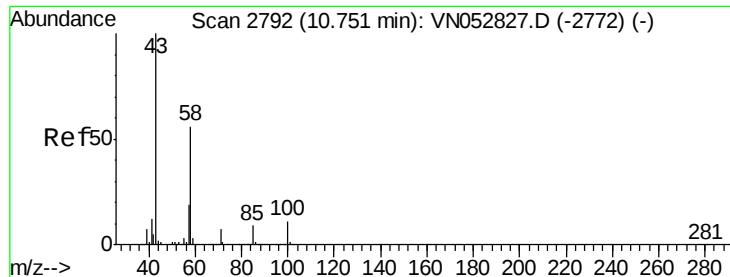
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 65.344 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

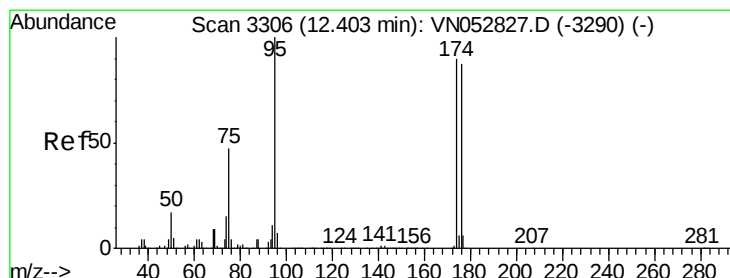
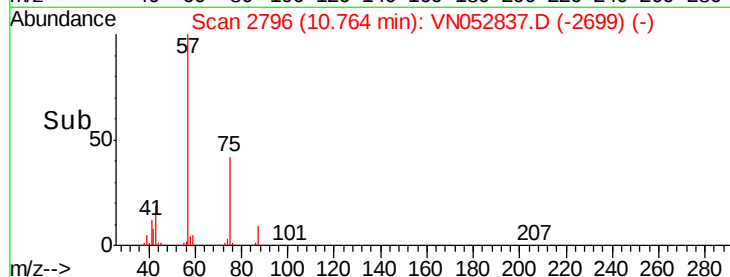
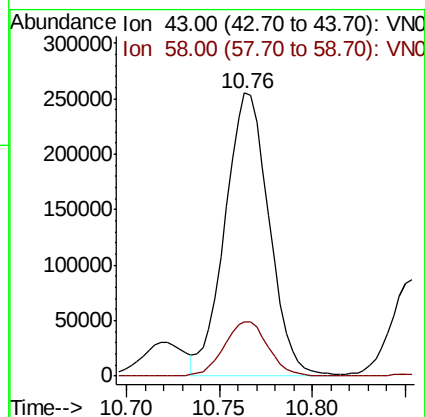
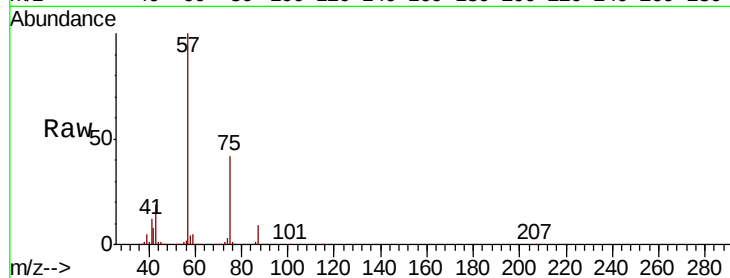
PB115564ZHE#01

Tot Ion: 43 Resp: 418358

Ion Ratio Lower Upper

43 100

58 19.3 28.1 84.3#



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

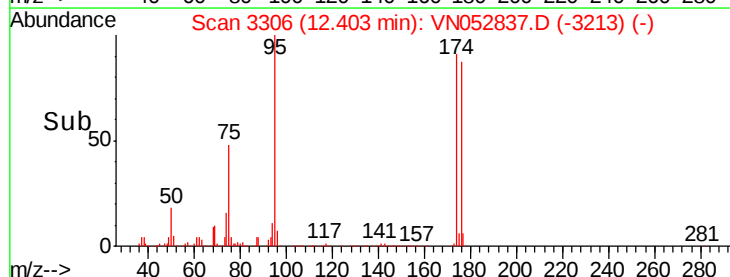
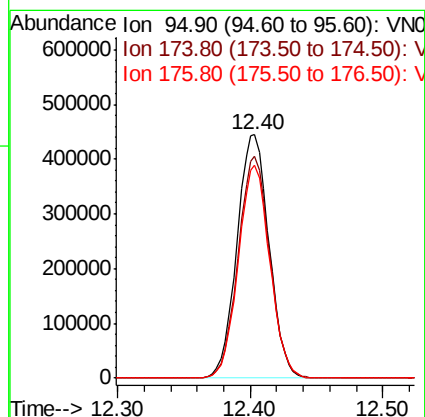
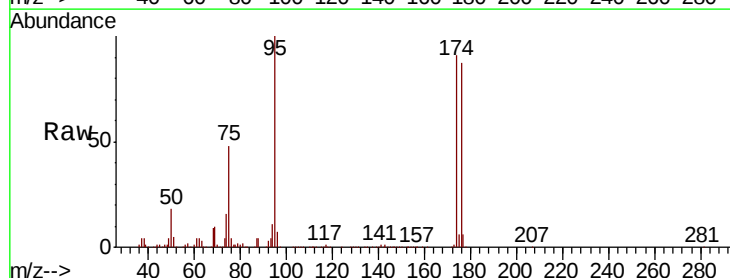
Tgt Ion: 95 Resp: 745911

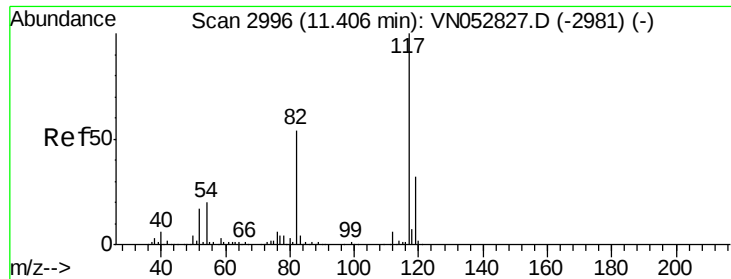
Ion Ratio Lower Upper

95 100

174 89.6 0.0 178.8

176 86.0 0.0 173.8

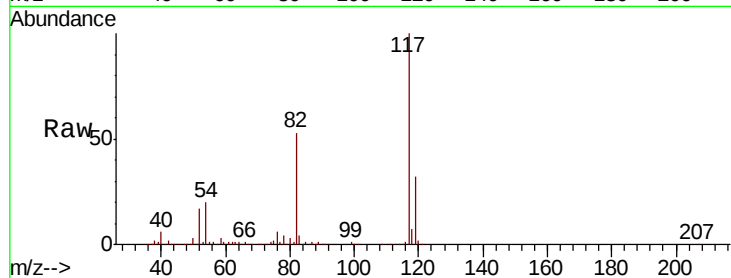




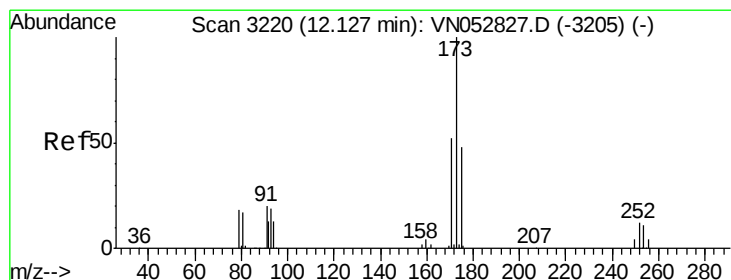
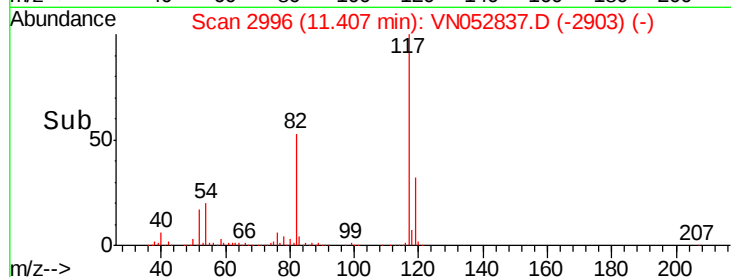
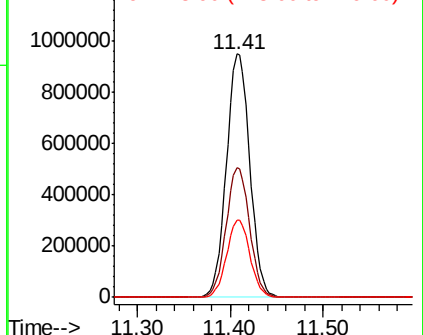
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB115564ZHE#01

Tot Ion:117 Resp: 1655347  
Ion Ratio Lower Upper  
117 100  
82 53.4 42.8 64.2  
119 31.6 25.5 38.3

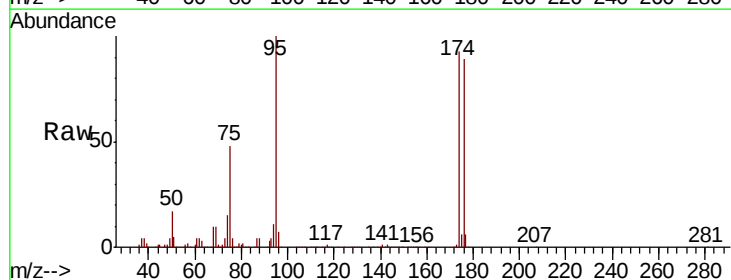


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

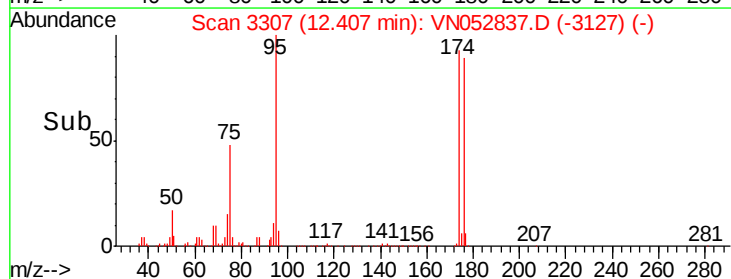
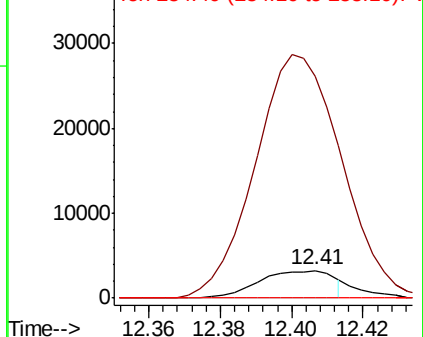


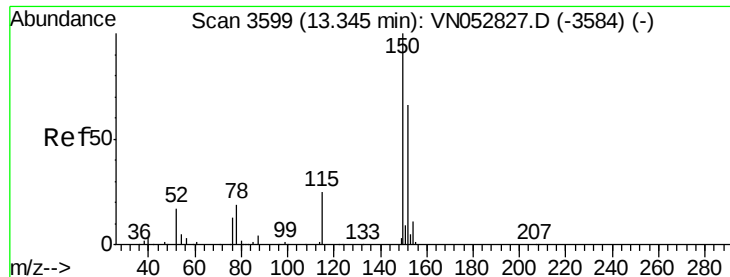
#71  
Bromoform  
Concen: 0.582 ug/l  
RT: 12.41 min Scan# 3307  
Delta R.T. 0.28 min  
Lab File: VN052837.D  
Acq: 12 Dec 2018 19:47

Tgt Ion:173 Resp: 4719  
Ion Ratio Lower Upper  
173 100  
175 886.3 24.3 72.9#  
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

PB115564ZHE#01

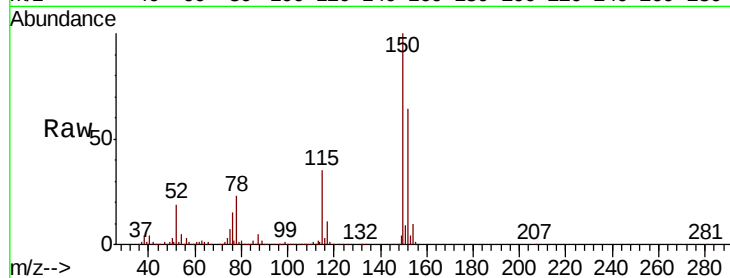
Tot Ion:152 Resp: 698202

Ion Ratio Lower Upper

152 100

115 56.4 28.3 85.0

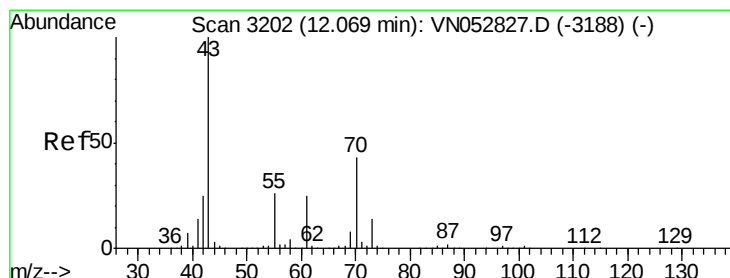
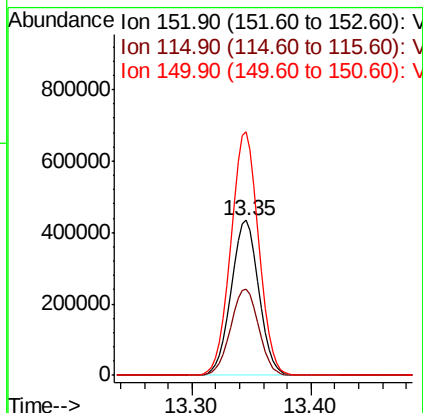
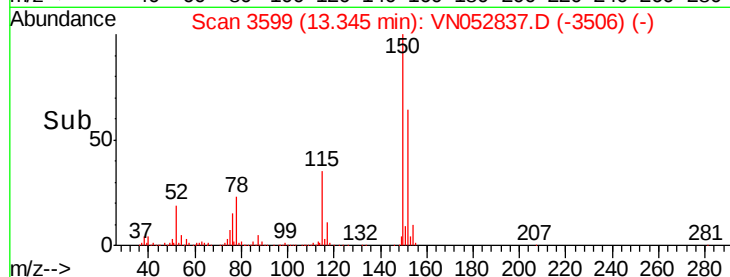
150 157.5 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.636 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Tgt Ion: 43 Resp: 52032

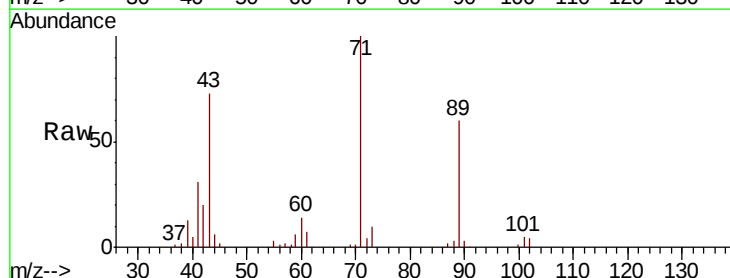
Ion Ratio Lower Upper

43 100

70 1.9 34.2 51.4#

55 4.8 20.3 30.5#

61 9.9 20.0 30.0#

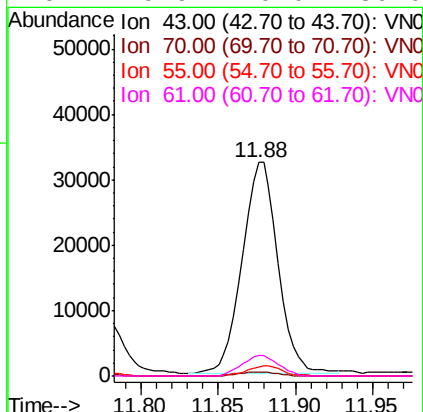
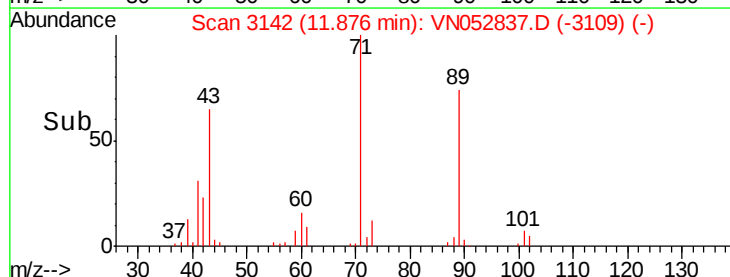


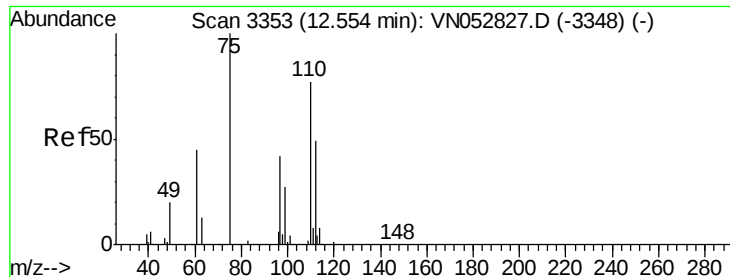
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 34.886 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

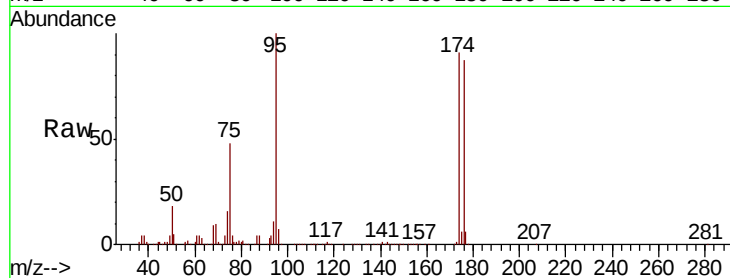
PB115564ZHE#01

Tot Ion: 75 Resp: 359372

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052837.D (-3306) (-)

Ion 77.00 (76.70 to 77.70): VN052837.D (-3306) (-)

12.40

200000

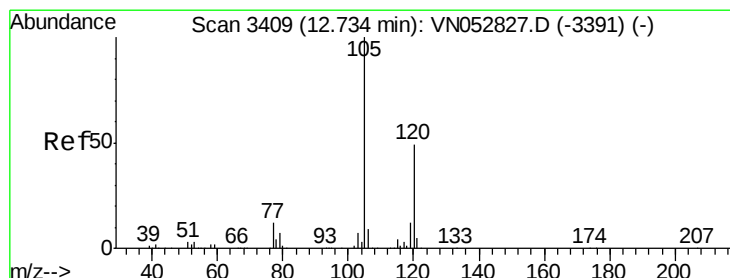
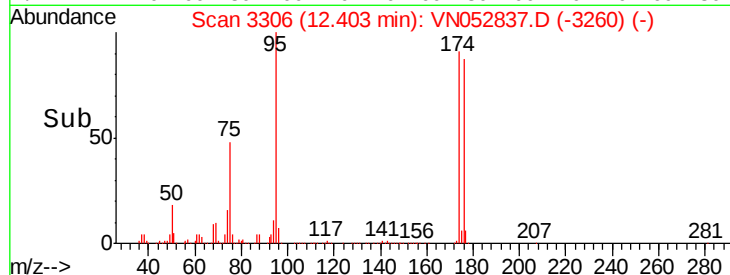
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.330 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052837.D

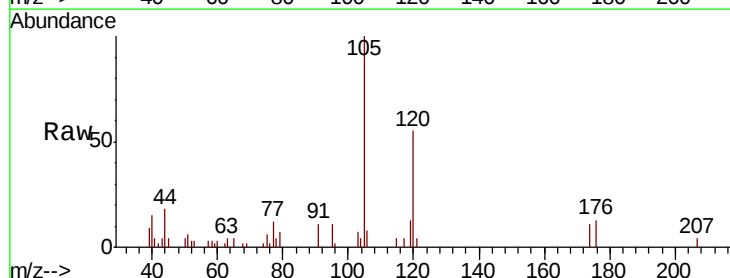
Acq: 12 Dec 2018 19:47

Tgt Ion: 105 Resp: 13867

Ion Ratio Lower Upper

105 100

120 51.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052837.D (-3409) (-)

Ion 120.00 (119.70 to 120.70): VN052837.D (-3409) (-)

12.73

10000

8000

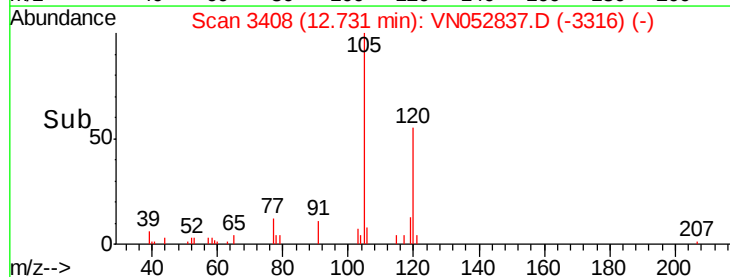
6000

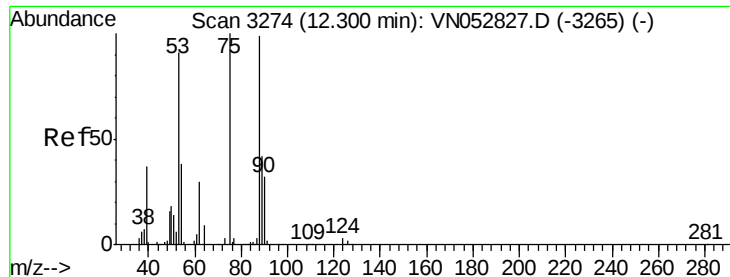
4000

2000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 112.072 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052837.D

Acq: 12 Dec 2018 19:47

Instrument :

MSVOA\_N

ClientSampleId :

PB115564ZHE#01

Tot Ion: 75 Resp: 359372

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

