

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\  
 Data File : VN053044.D  
 Acq On : 20 Dec 2018 9:41  
 Operator : MD\SY  
 Sample : VN1220WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1220WBL01

Quant Time: Dec 21 00:13:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 1345980  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 2053675  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1841250  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 738117   | 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   | 647344   | 47.39 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.78%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 555191   | 59.18 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 118.36% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2501119  | 49.66 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.32%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 837119   | 47.35 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 94.70%  |          |

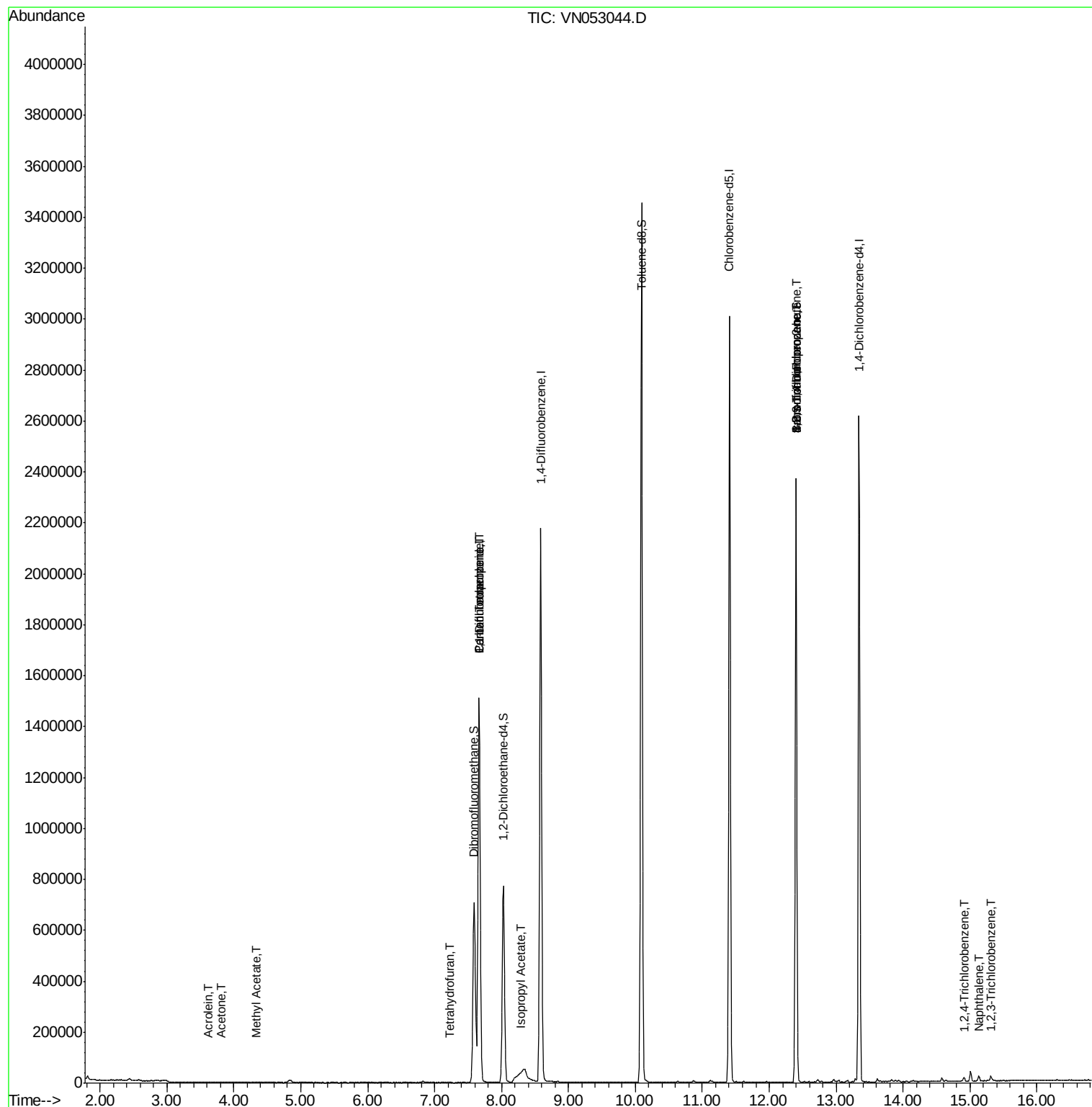
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein                   | 3.61  | 56   | 725      | 0.959     | ug/l # | 49     |
| 16) Acetone                    | 3.82  | 43   | 1595     | 0.596     | ug/l # | 79     |
| 18) Methyl Acetate             | 4.33  | 43   | 4554     | 1.359     | ug/l # | 79     |
| 29) Tetrahydrofuran            | 7.22  | 42   | 726      | 0.216     | ug/l # | 41     |
| 31) Cyclohexane                | 7.66  | 56   | 21409    | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 86319    | 4.379     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 115540   | 6.395     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.27  | 43   | 59149    | 1.770     | ug/l # | 54     |
| 71) Bromoform                  | 12.40 | 173  | 4840     | 0.472     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 384220   | 30.922    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 384220   | 99.665    | ug/l # | 12     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 5831     | 1.031     | ug/l   | 96     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 8497     | Below Cal |        | 98     |
| 95) Naphthalene                | 15.13 | 128  | 16407    | 1.699     | ug/l   | 99     |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 7556     | 1.135     | ug/l   | 96     |

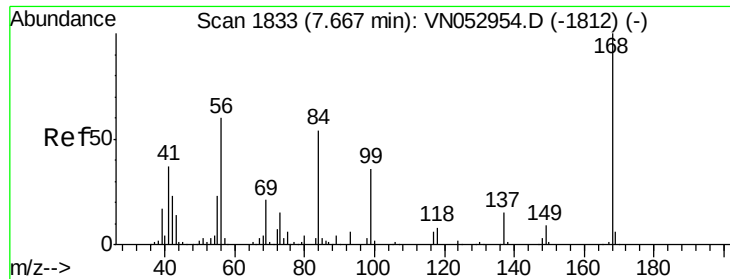
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN122018\  
Data File : VN053044.D  
Acq On : 20 Dec 2018 9:41  
Operator : MD\SY  
Sample : VN1220WBL01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 3 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1220WBL01

Quant Time: Dec 21 00:13:26 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA\_N

ClientSampleId :

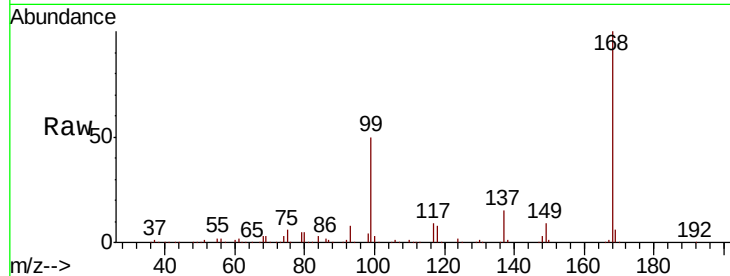
VN1220WBL01

Tot Ion:168 Resp: 1345980

Ion Ratio Lower Upper

168 100

99 50.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052954.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052954.D (-1812) (-)

7.66

600000

500000

400000

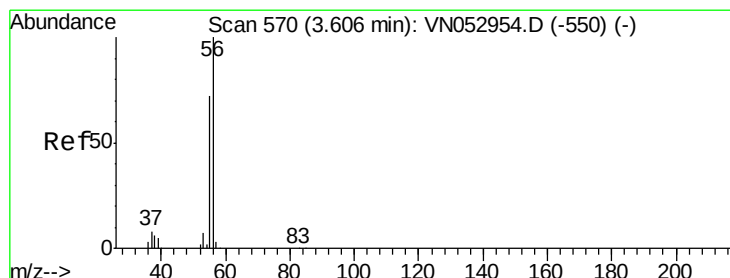
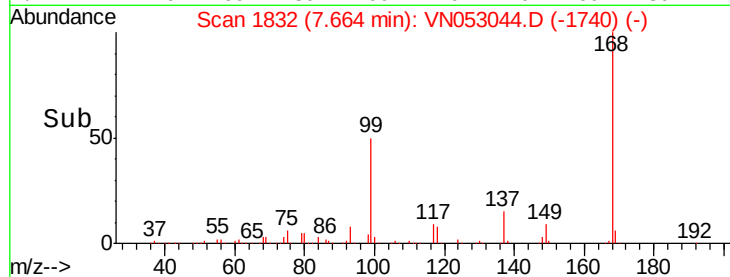
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.959 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053044.D

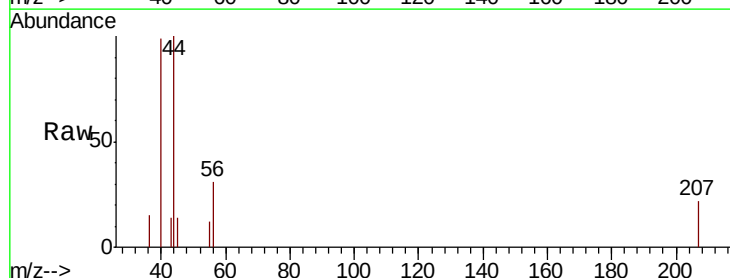
Acq: 20 Dec 2018 9:41

Tgt Ion: 56 Resp: 725

Ion Ratio Lower Upper

56 100

55 29.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052954.D (-550) (-)

Ion 55.00 (54.70 to 55.70): VN052954.D (-550) (-)

3.61

400

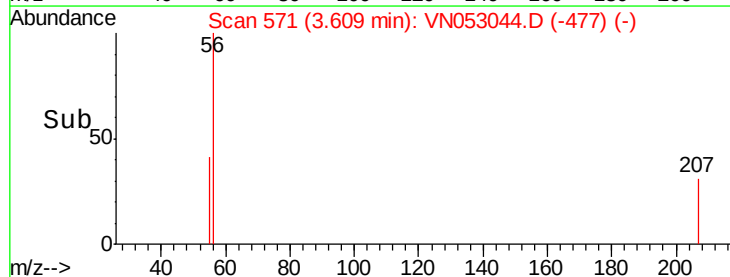
300

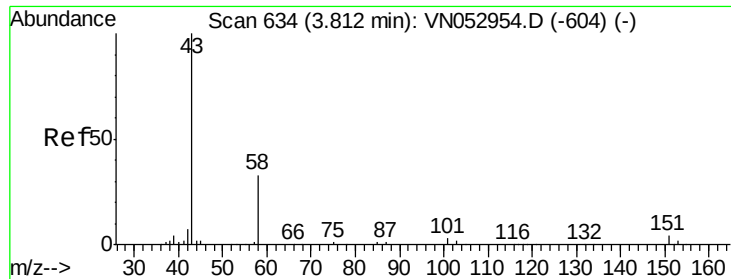
200

100

0

Time-->





#16

Acetone

Concen: 0.596 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA\_N

ClientSampled :

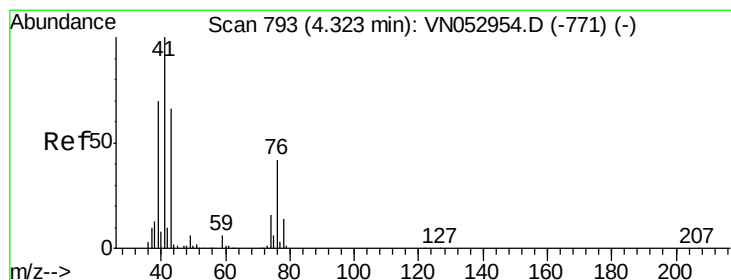
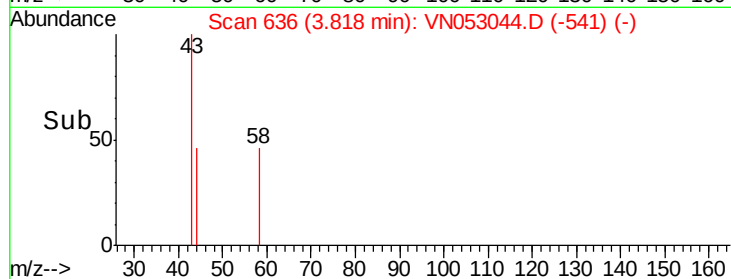
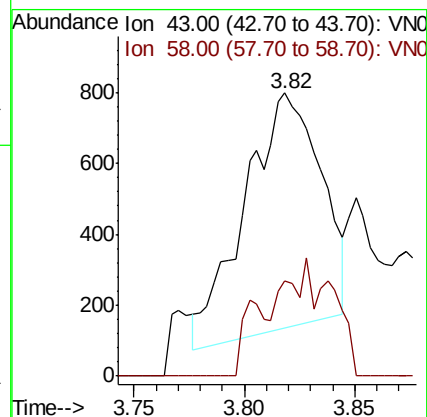
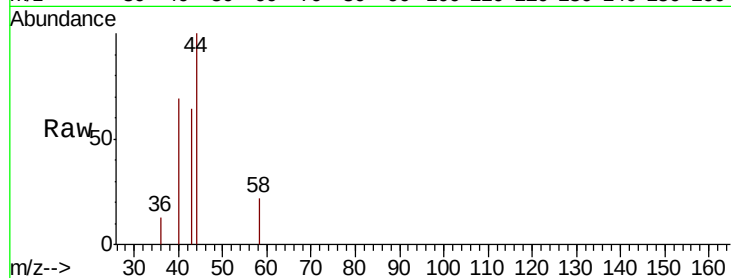
VN1220WBL01

Tot Ion: 43 Resp: 1595

Ion Ratio Lower Upper

43 100

58 43.1 25.4 38.0#



#18

Methyl Acetate

Concen: 1.359 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053044.D

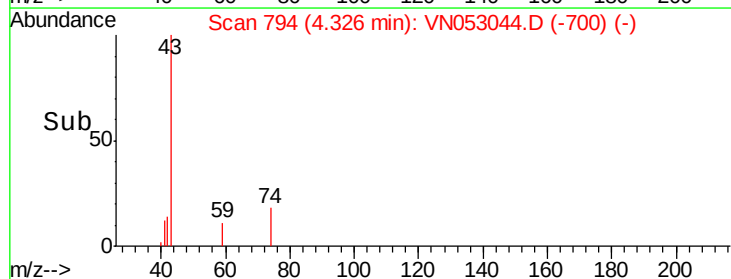
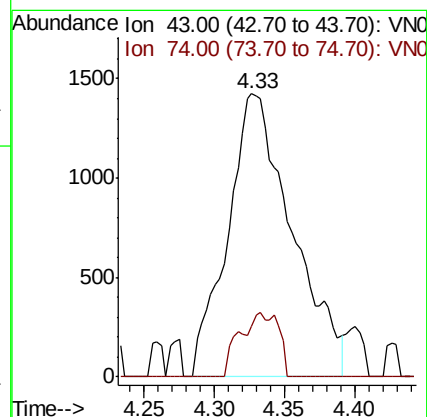
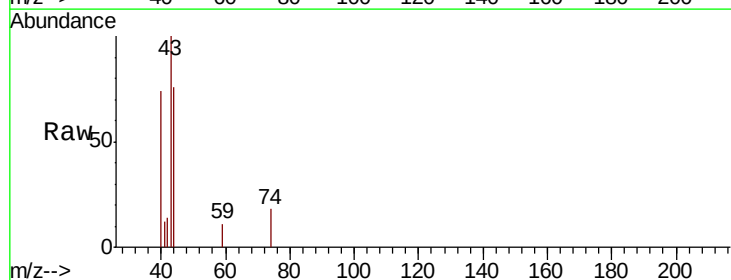
Acq: 20 Dec 2018 9:41

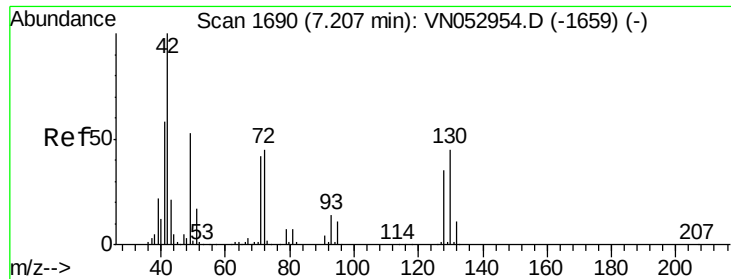
Tgt Ion: 43 Resp: 4554

Ion Ratio Lower Upper

43 100

74 13.7 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA\_N

ClientSampleId :

VN1220WBL01

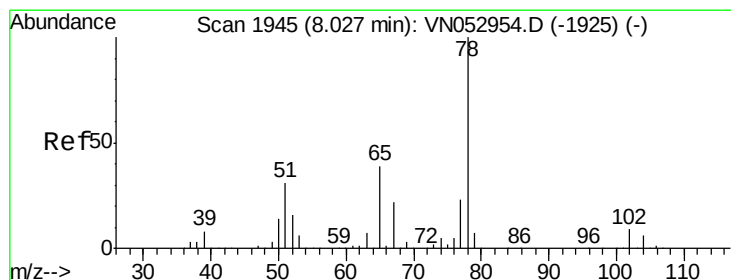
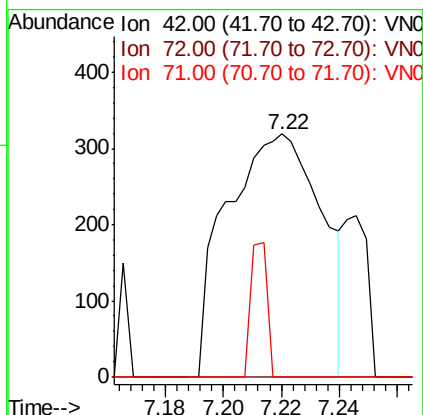
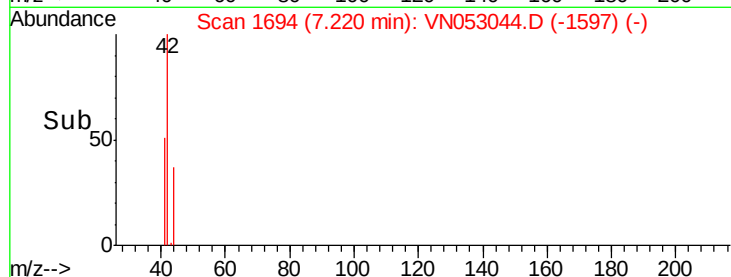
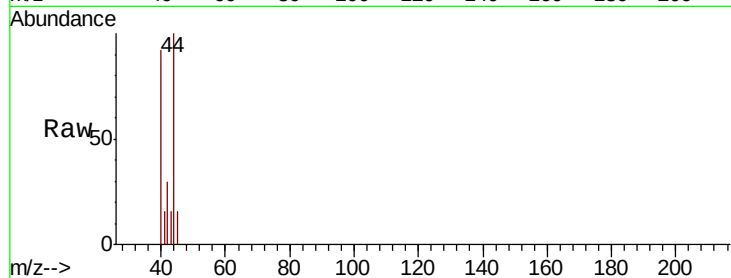
Tot Ion: 42 Resp: 726

Ion Ratio Lower Upper

42 100

72 0.0 34.7 52.1#

71 9.2 32.3 48.5#



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053044.D

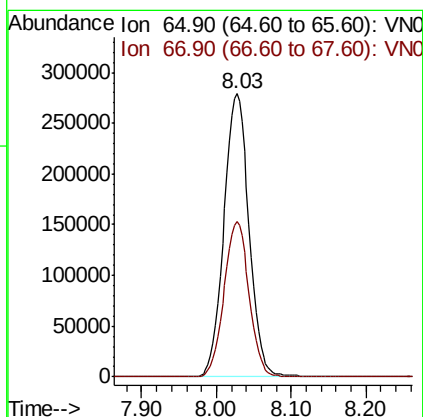
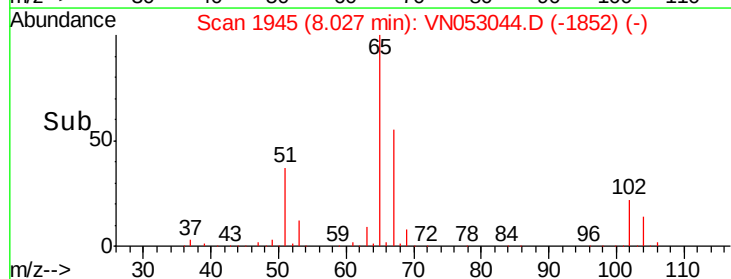
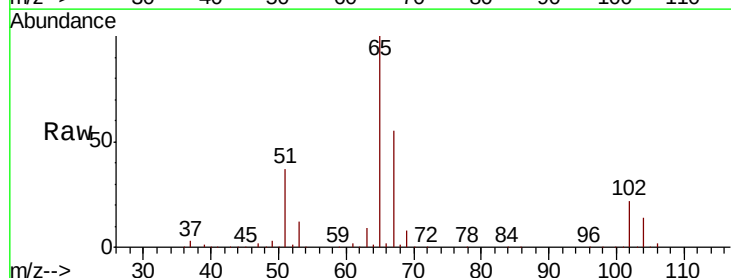
Acq: 20 Dec 2018 9:41

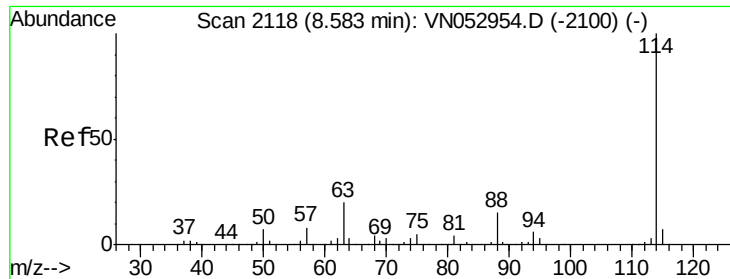
Tgt Ion: 65 Resp: 647344

Ion Ratio Lower Upper

65 100

67 54.7 0.0 110.4

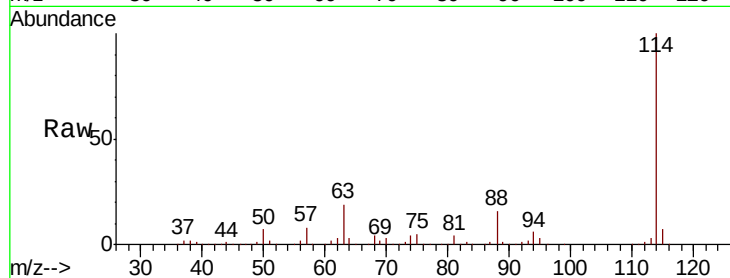




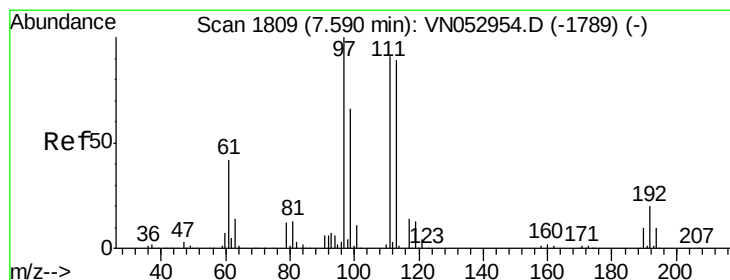
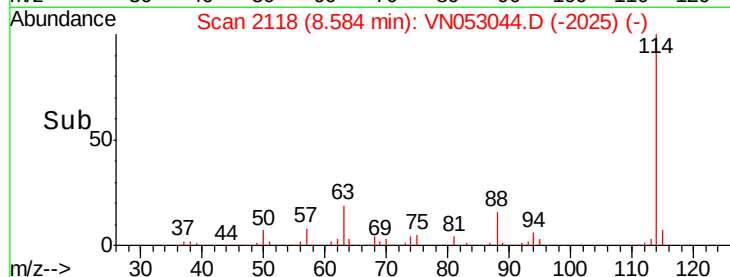
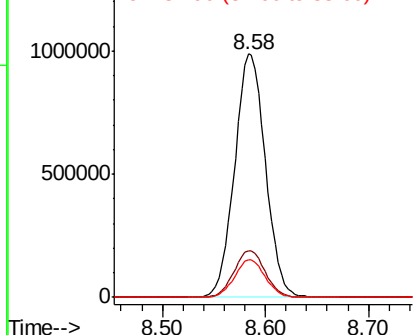
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN053044.D  
 Acq: 20 Dec 2018 9:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1220WBL01

Tot Ion:114 Resp: 2053675  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 39.8  
 88 15.6 0.0 31.0

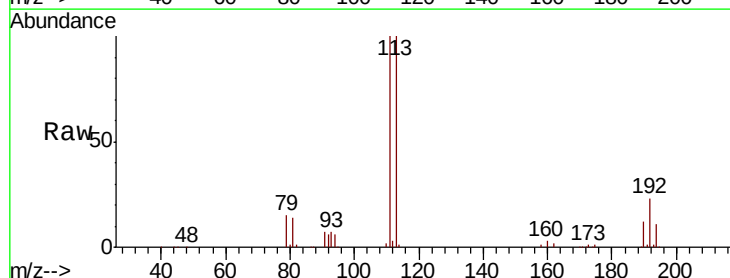


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

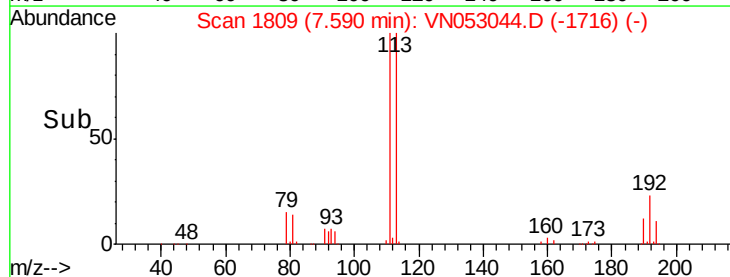
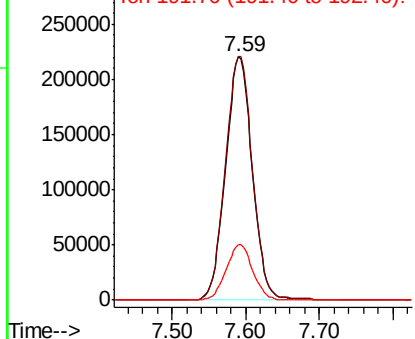


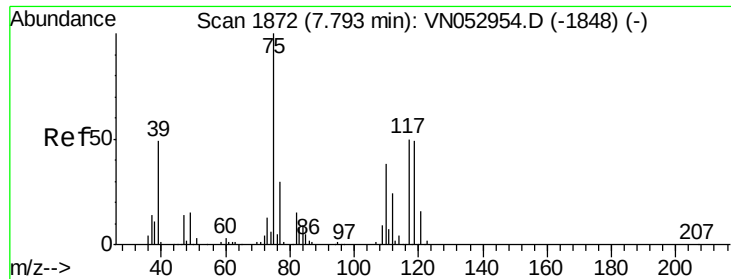
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN053044.D  
 Acq: 20 Dec 2018 9:41

Tgt Ion:113 Resp: 555191  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 83.0 124.4  
 192 22.7 17.5 26.3



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

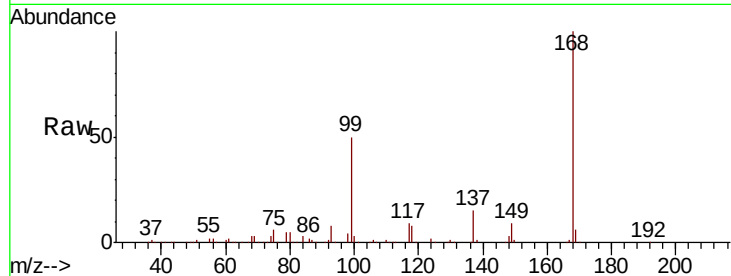




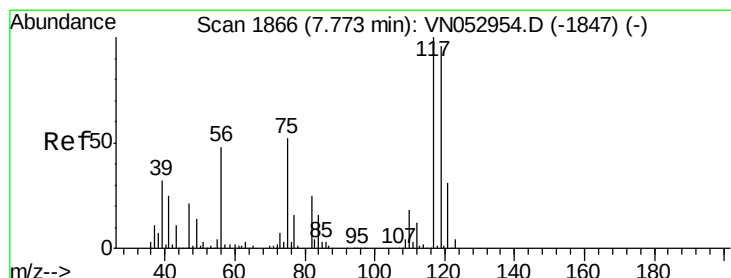
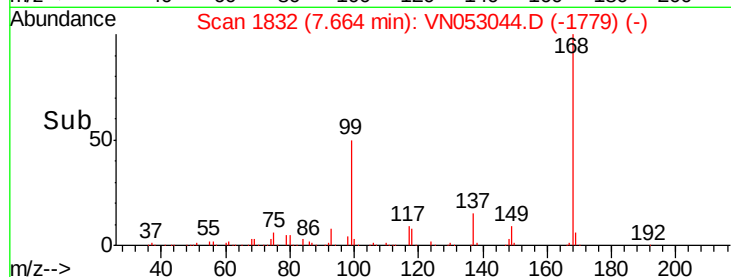
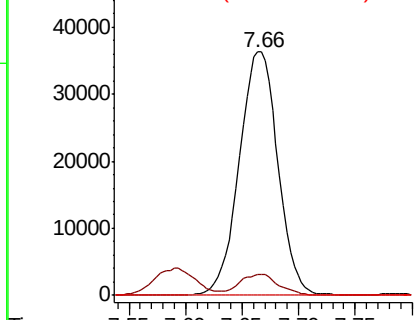
#36  
 1,1-Dichloropropene  
 Concen: 4.379 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN053044.D  
 Acq: 20 Dec 2018 9:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1220WBL01

| Tot Ion   | 75  | Resp  | 86319 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 110       | 8.6 | 18.2  | 54.6# |
| 77        | 0.0 | 24.9  | 37.3# |

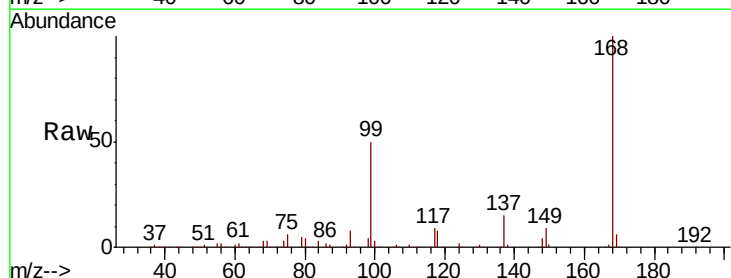


Abundance Ion 74.90 (74.60 to 75.60): VN0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VN0

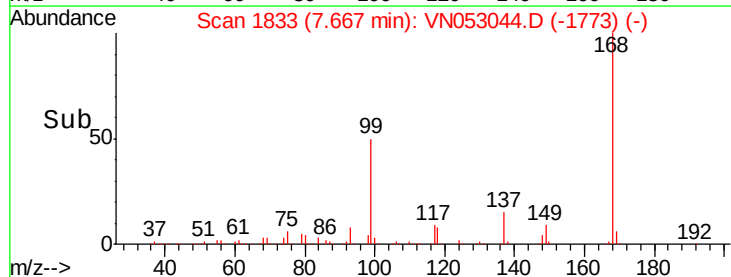
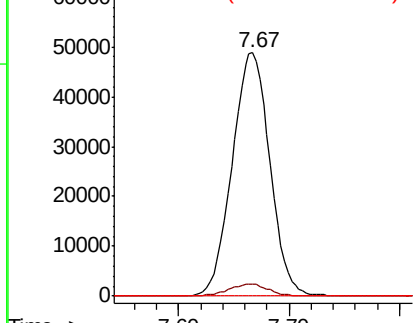


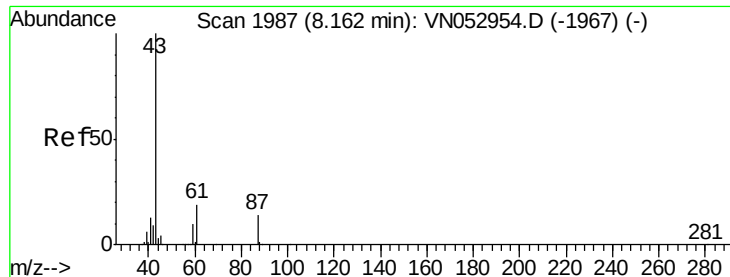
#38  
 Carbon Tetrachloride  
 Concen: 6.395 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN053044.D  
 Acq: 20 Dec 2018 9:41

| Tgt Ion                                              | 117 | Resp  | 115540 |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 119                                                  | 5.2 | 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: 1.770 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA\_N

ClientSampleId :

VN1220WBL01

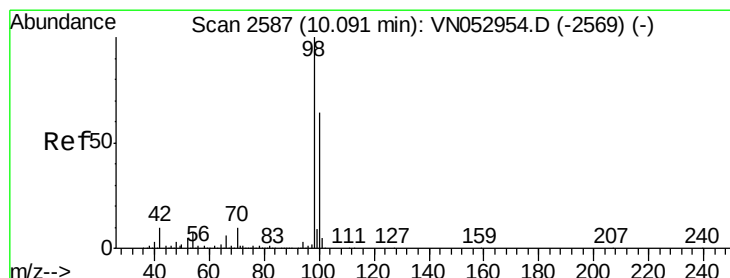
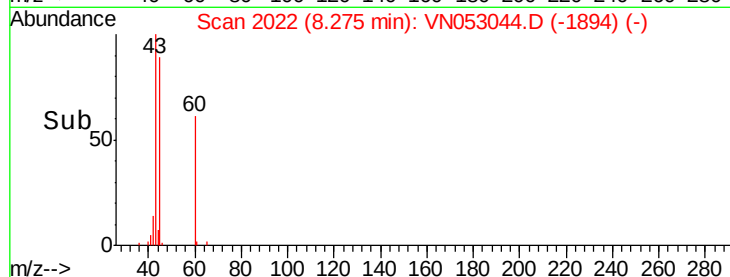
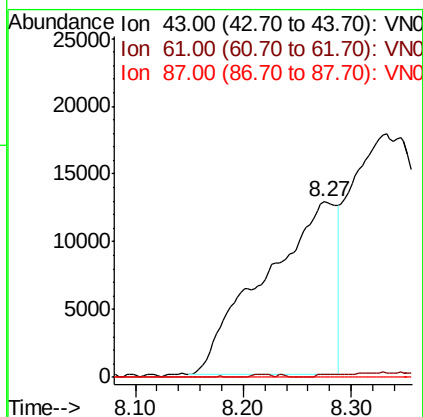
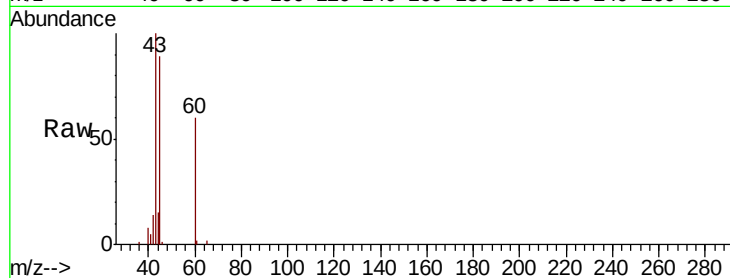
Tot Ion: 43 Resp: 59149

Ion Ratio Lower Upper

43 100

61 0.9 22.9 34.3#

87 0.0 10.6 15.8#



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN053044.D

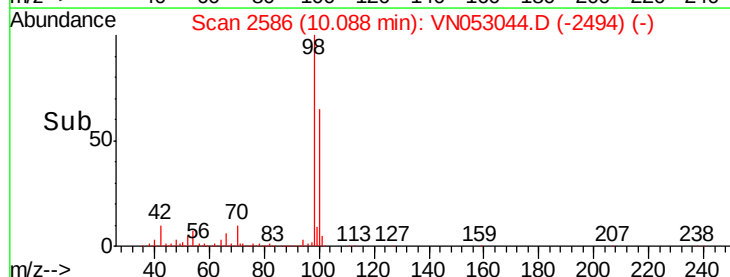
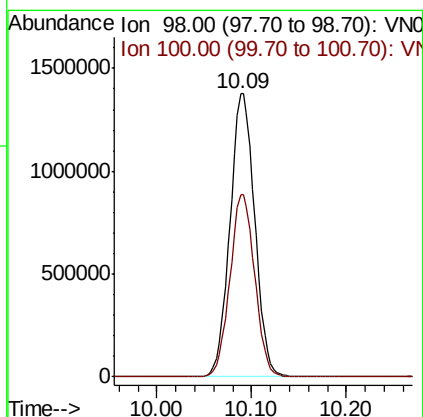
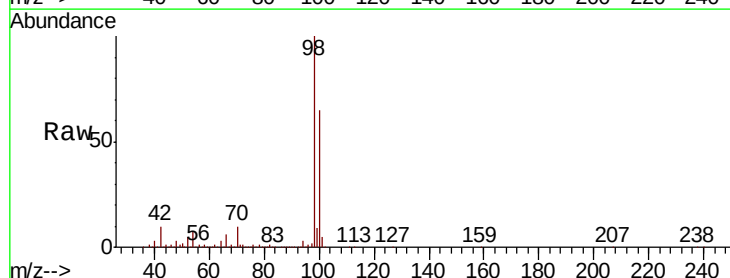
Acq: 20 Dec 2018 9:41

Tgt Ion: 98 Resp: 2501119

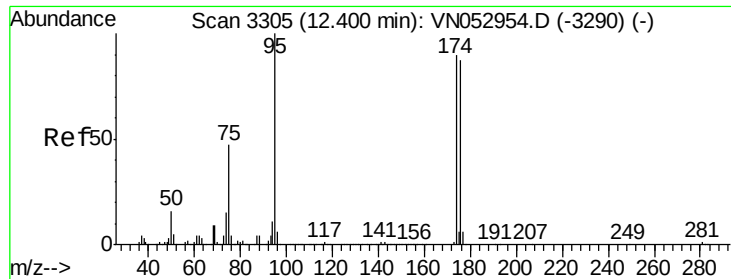
Ion Ratio Lower Upper

98 100

100 64.4 51.6 77.4



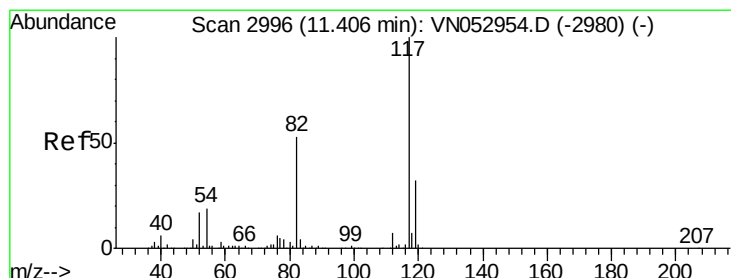
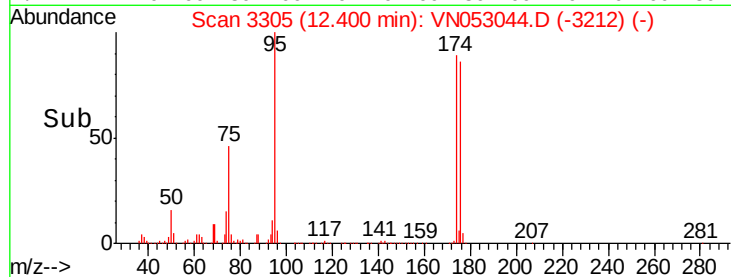
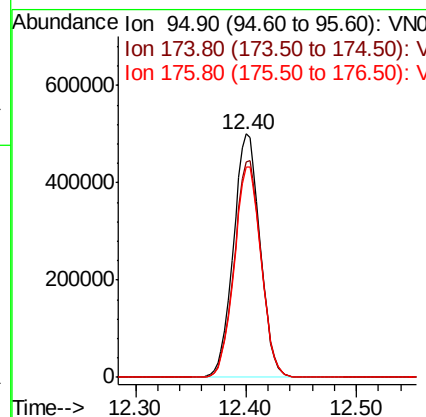
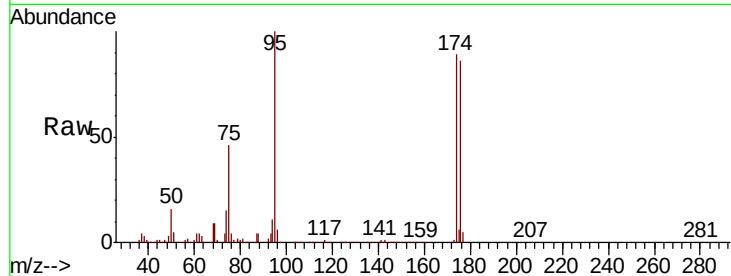




#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN053044.D  
Acq: 20 Dec 2018 9:41

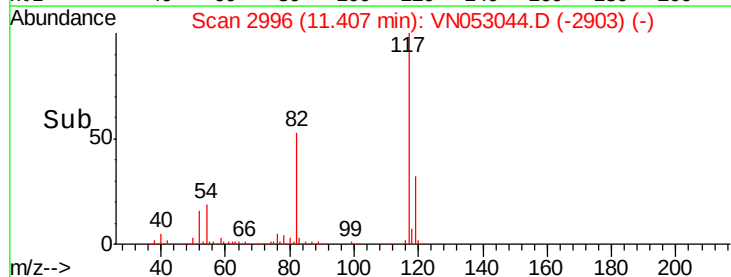
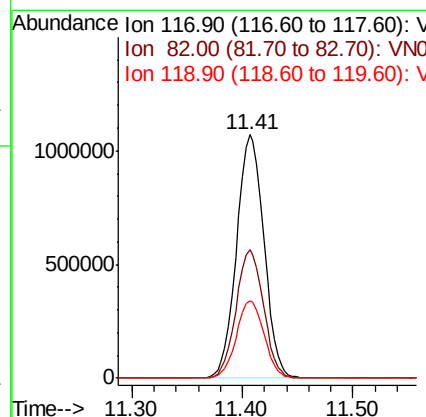
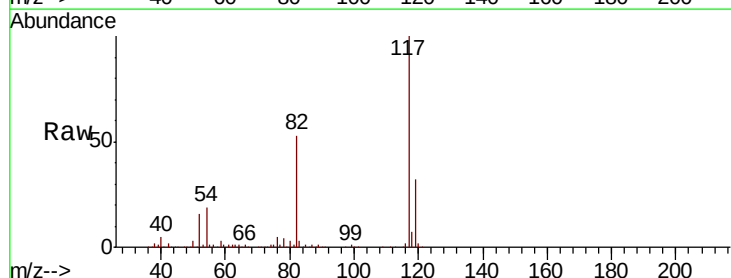
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1220WBL01

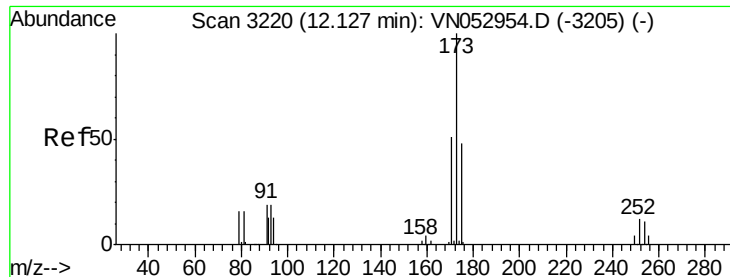
Tot Ion: 95 Resp: 837119  
Ion Ratio Lower Upper  
95 100  
174 89.6 0.0 178.8  
176 87.0 0.0 173.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN053044.D  
Acq: 20 Dec 2018 9:41

Tgt Ion: 117 Resp: 1841250  
Ion Ratio Lower Upper  
117 100  
82 52.9 42.8 64.2  
119 32.0 25.5 38.3





#71

Bromoform

Concen: 0.472 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA\_N

ClientSampleId :

VN1220WBL01

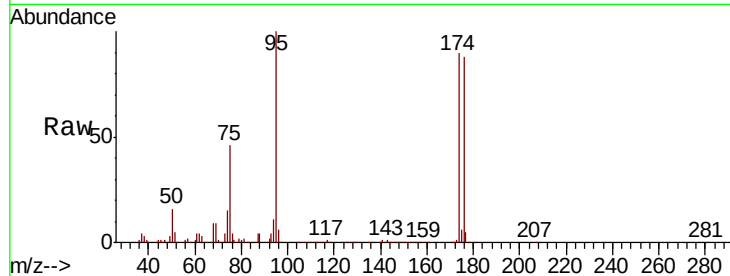
Tot Ion:173 Resp: 4840

Ion Ratio Lower Upper

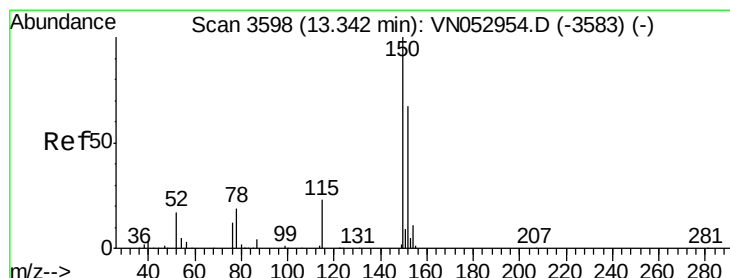
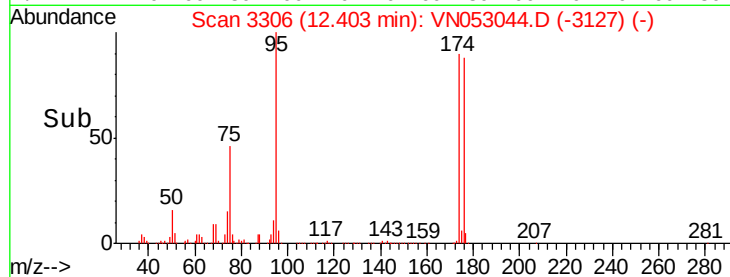
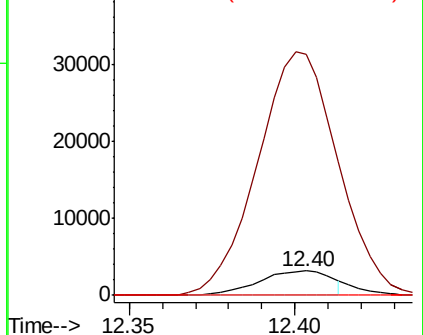
173 100

175 979.5 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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

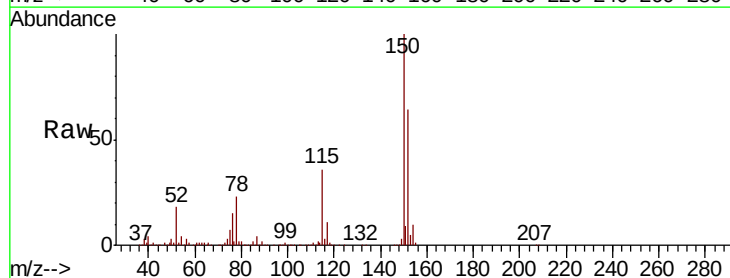
Tgt Ion:152 Resp: 738117

Ion Ratio Lower Upper

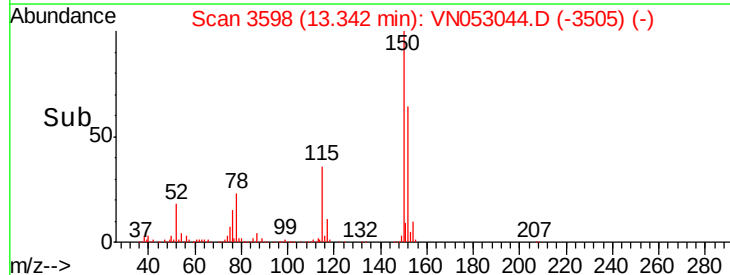
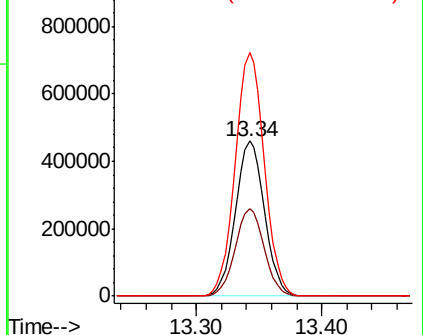
152 100

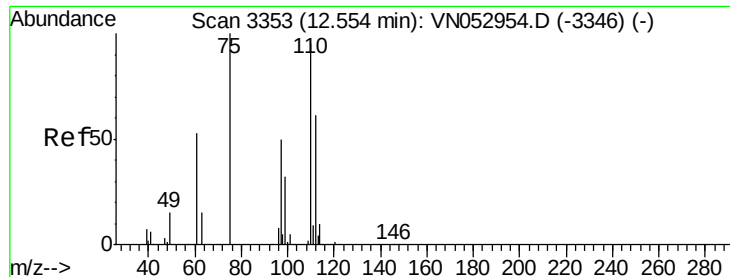
115 56.3 28.3 85.0

150 157.7 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





#76

1,2,3-Trichloropropane

Concen: 30.922 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA\_N

ClientSampled :

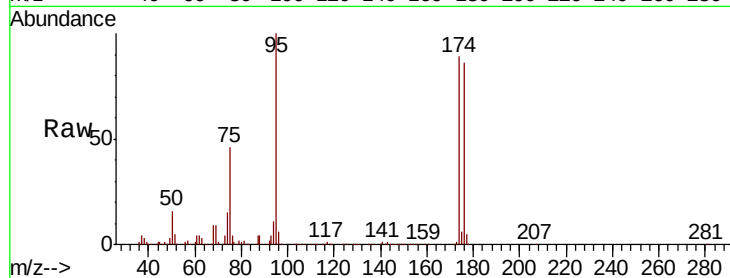
VN1220WBL01

Tot Ion: 75 Resp: 384220

Ion Ratio Lower Upper

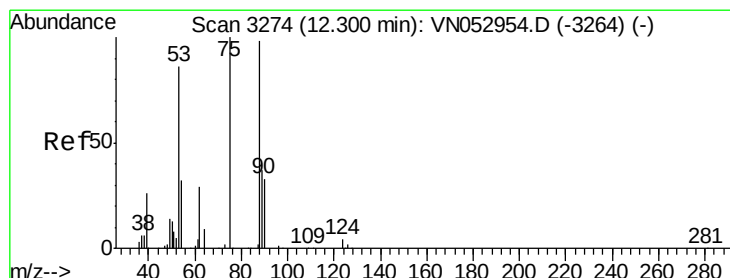
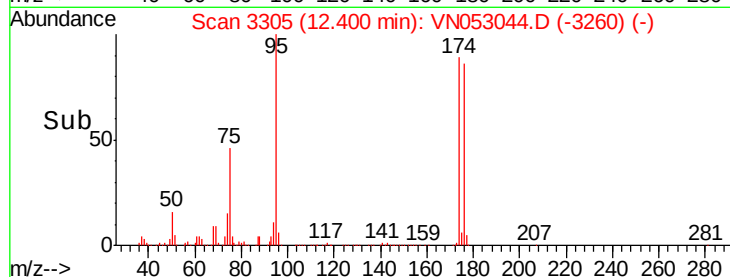
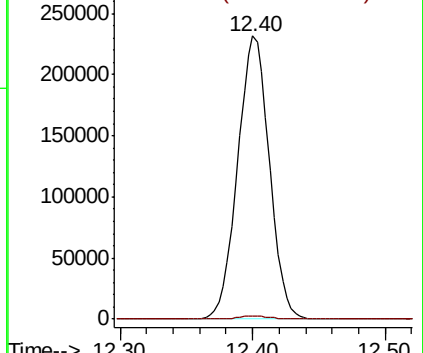
75 100

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: 99.665 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

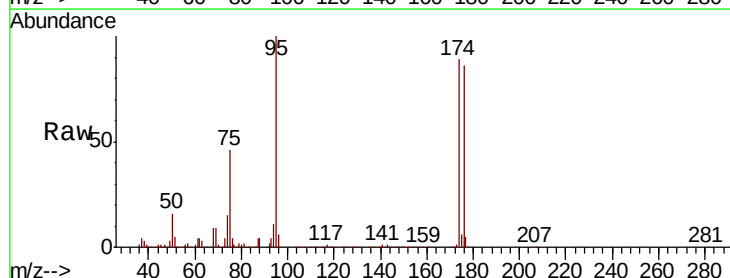
Tgt Ion: 75 Resp: 384220

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

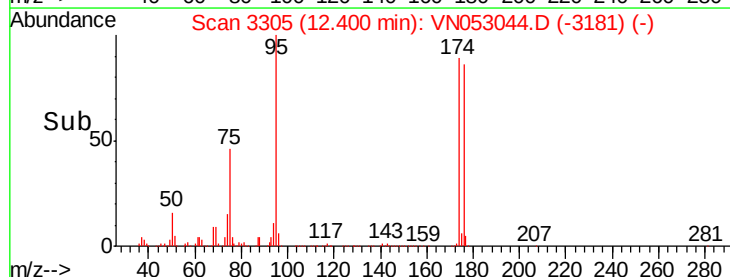
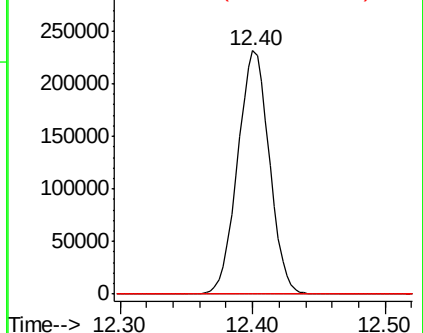
89 0.0 36.1 54.1#

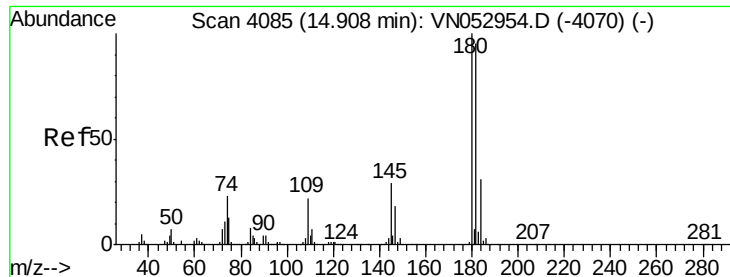


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

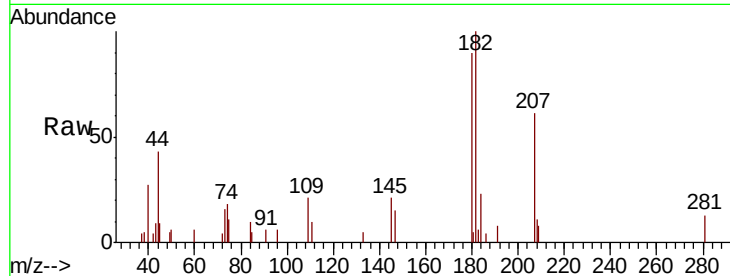




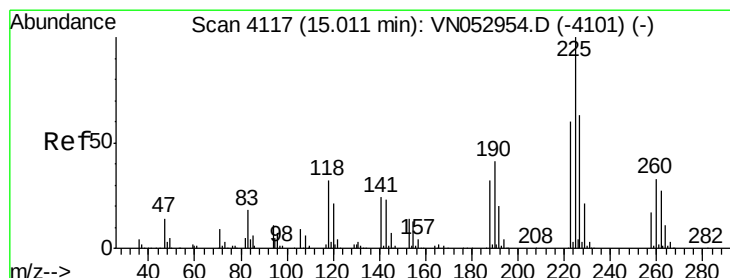
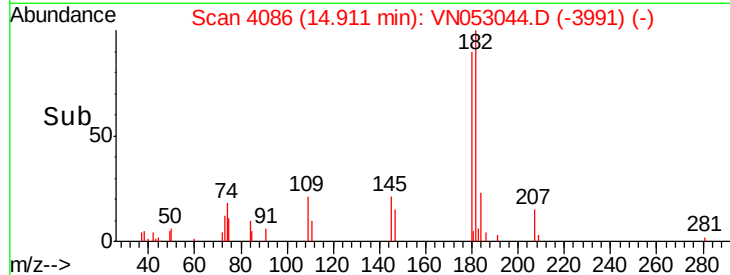
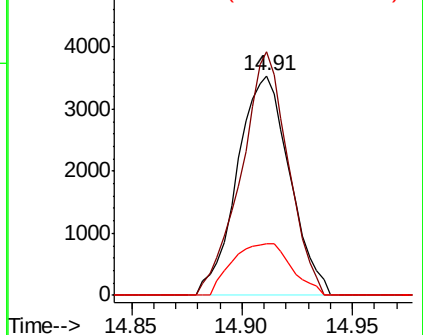
#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.031 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. 0.00 min  
 Lab File: VN053044.D  
 Acq: 20 Dec 2018 9:41

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1220WBL01

Tot Ion:180 Resp: 5831  
 Ion Ratio Lower Upper  
 180 100  
 182 99.2 47.8 143.3  
 145 26.6 14.2 42.6

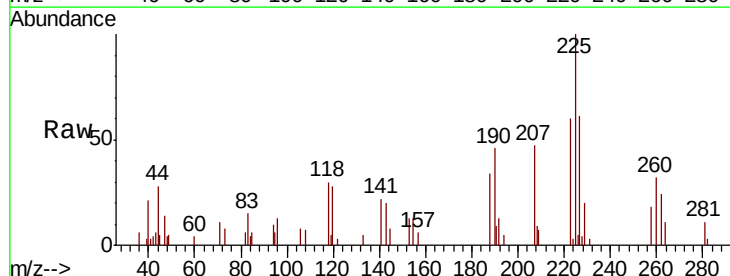


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

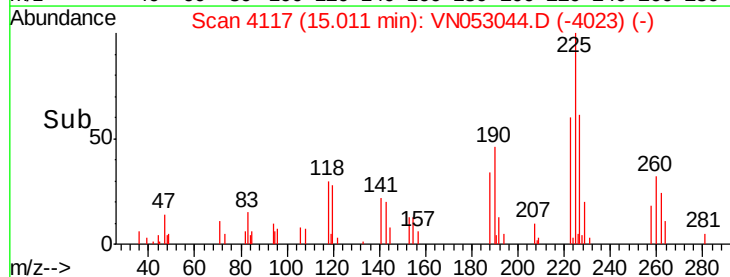
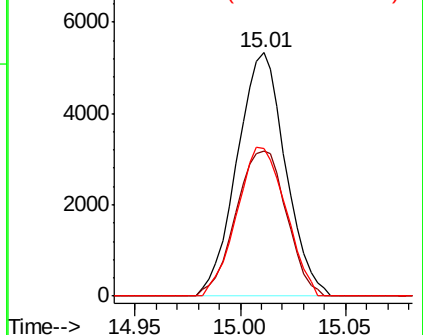


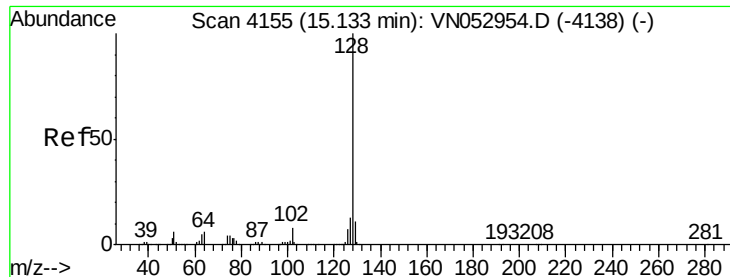
#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.01 min Scan# 4117  
 Delta R.T. 0.00 min  
 Lab File: VN053044.D  
 Acq: 20 Dec 2018 9:41

Tgt Ion:225 Resp: 8497  
 Ion Ratio Lower Upper  
 225 100  
 223 62.4 31.5 94.5  
 227 61.9 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.699 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

Instrument :

MSVOA\_N

ClientSampleId :

VN1220WBL01

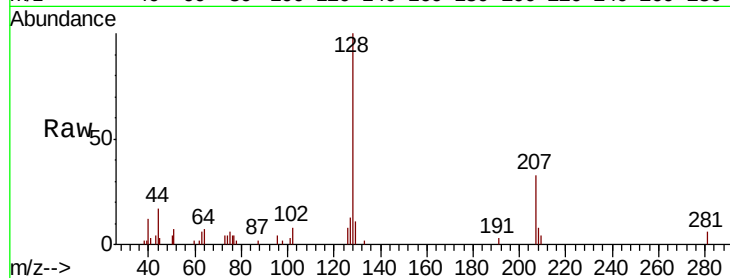
Tot Ion:128 Resp: 16407

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.4

129 10.6 8.6 13.0

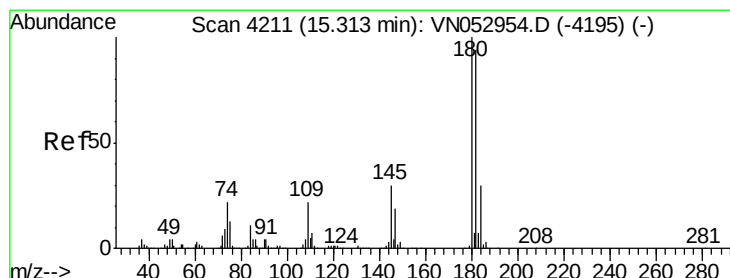
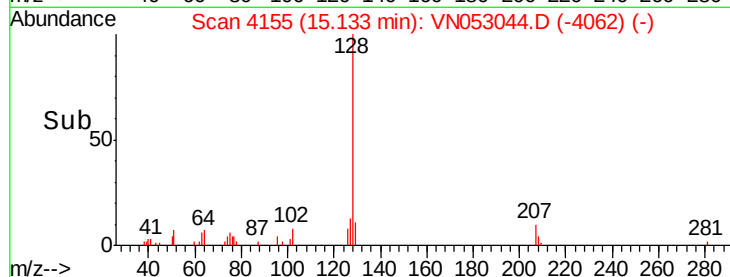
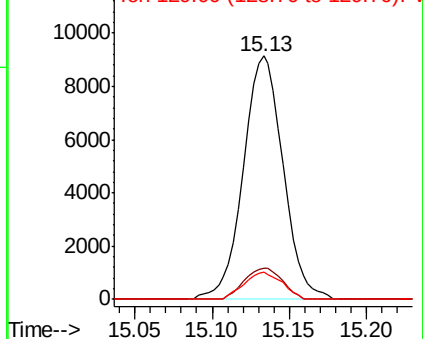


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.135 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053044.D

Acq: 20 Dec 2018 9:41

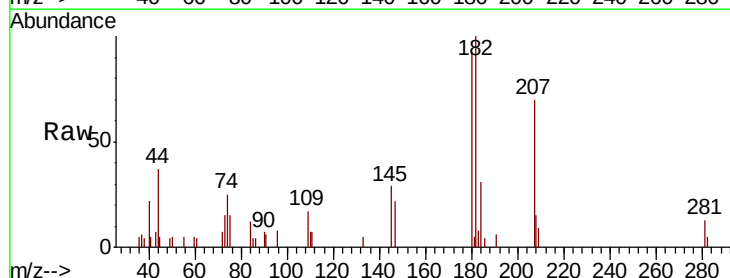
Tgt Ion:180 Resp: 7556

Ion Ratio Lower Upper

180 100

182 92.9 47.9 143.7

145 26.8 15.0 45.0



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

