

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091515\  
 Data File : VN027193.D  
 Acq On : 16 Sep 2015 5:48  
 Operator : MD\FY  
 Sample : G3629-09  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BFB

Quant Time: Sep 16 06:06:10 2015  
 Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N091515W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 15 21:12:09 2015  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.75  | 168  | 811624   | 50.00 | ug/l  | 0.00     |
| 35) 1,4-Difluorobenzene    | 8.68  | 114  | 1435816  | 50.00 | ug/l  | 0.00     |
| 64) Chlorobenzene-d5       | 11.52 | 117  | 1193564  | 50.00 | ug/l  | 0.00     |
| 73) 1,4-Dichlorobenzene-d4 | 13.47 | 152  | 405987   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 34) 1,2-Dichloroethane-d4   | 8.12  | 65   | 771434   | 46.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.78%  |          |
| 36) Dibromofluoromethane    | 7.68  | 113  | 508865   | 51.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.26% |          |
| 51) Toluene-d8              | 10.19 | 98   | 2080083  | 53.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.76% |          |
| 63) 4-Bromofluorobenzene    | 12.52 | 95   | 686900   | 49.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.32%  |          |

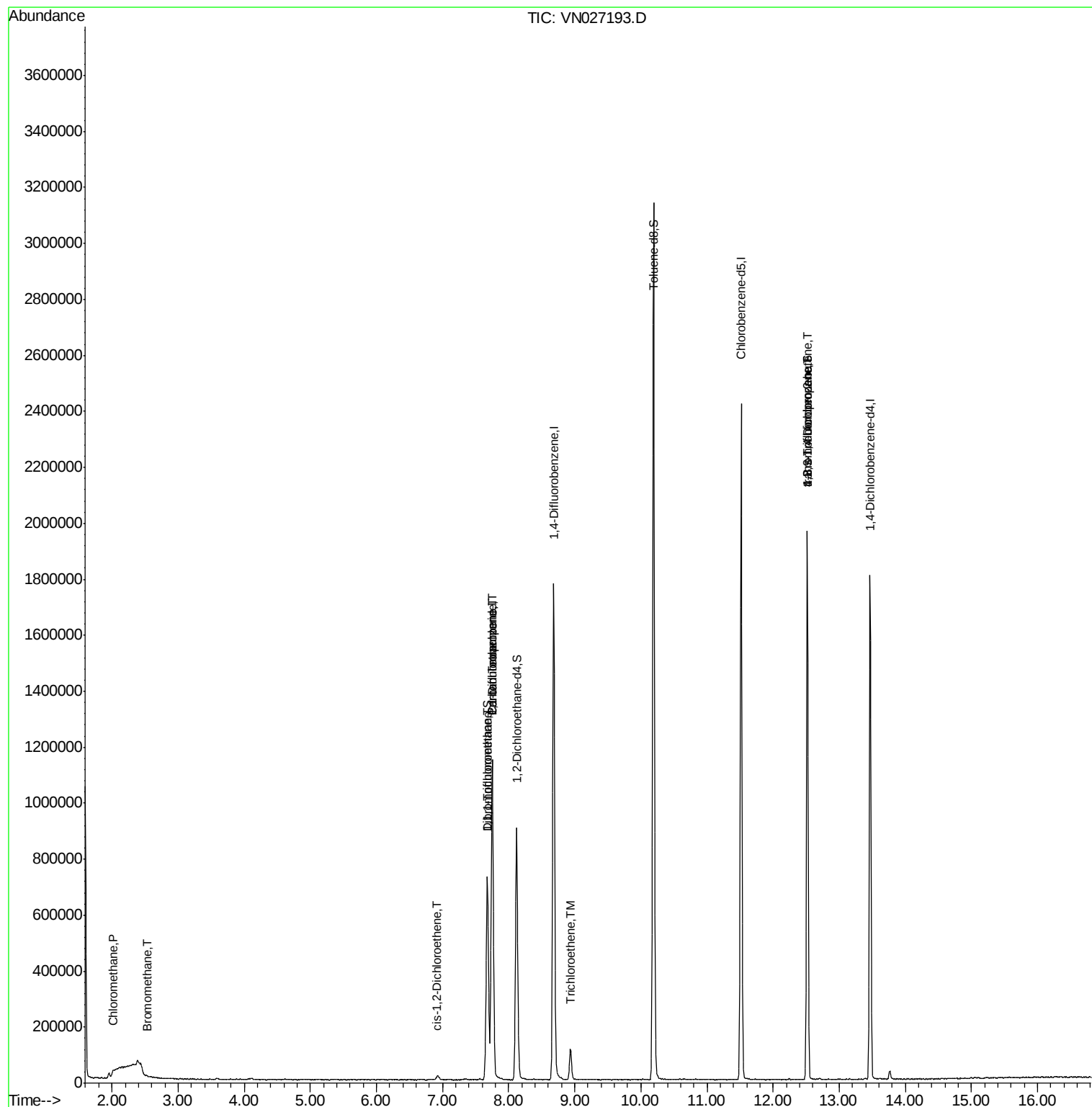
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 4) Chloromethane               | 2.01  | 50   | 4140     | 1.48      | ug/l   | 94     |
| 6) Bromomethane                | 2.54  | 94   | 406      | 1.67      | ug/l # | 6      |
| 28) cis-1,2-Dichloroethene     | 6.92  | 96   | 9750     | 0.75      | ug/l   | 86     |
| 33) 1,1,1-Trichloroethane      | 7.67  | 97   | 24869    | 1.20      | ug/l # | 53     |
| 37) 1,1-Dichloropropene        | 7.75  | 75   | 83609    | 4.97      | ug/l # | 51     |
| 38) Ethyl Acetate              | 7.02  | 43   | 272      | Below Cal | #      | 1      |
| 39) Carbon Tetrachloride       | 7.75  | 117  | 92729    | 5.87      | ug/l # | 17     |
| 45) Trichloroethene            | 8.93  | 130  | 36181    | 3.67      | ug/l   | 92     |
| 76) 1,1,2,2-Tetrachloroethane  | 12.64 | 83   | 256      | Below Cal | #      | 25     |
| 77) 1,2,3-Trichloropropane     | 12.52 | 75   | 388871   | 31.69     | ug/l # | 1      |
| 82) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 388871   | 77.85     | ug/l # | 4      |
| 93) 1,2-Dibromo-3-Chloropropan | 14.38 | 75   | 29       | Below Cal | #      | 9      |

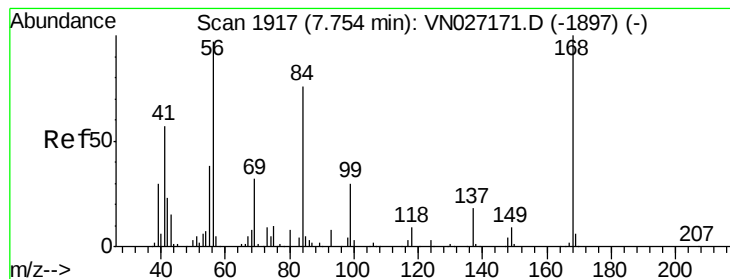
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_N  
ClientSampleId :  
BFB

Quant Time: Sep 16 06:06:10 2015  
Quant Method : W:\HPCHEM1\MSVOA\_N\METHODS\82N091515W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 15 21:12:09 2015  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampleId :

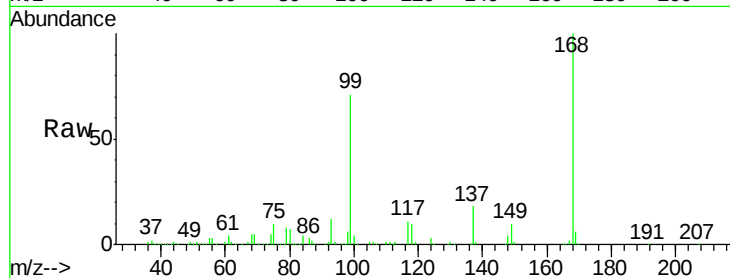
BFB

Tot Ion:168 Resp: 811624

Ion Ratio Lower Upper

168 100

99 71.0 50.4 75.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.75

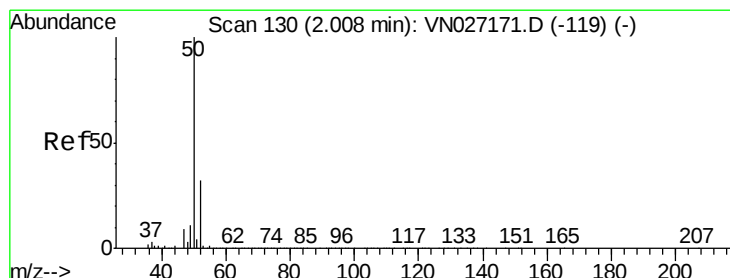
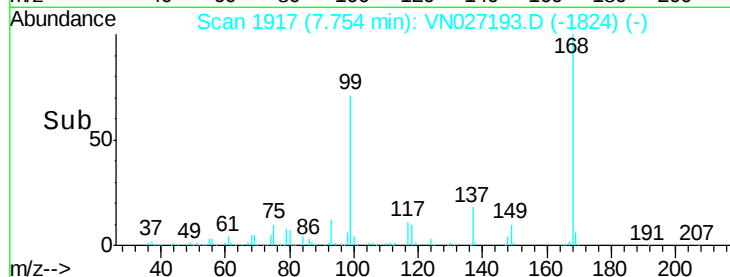
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 1.48 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027193.D

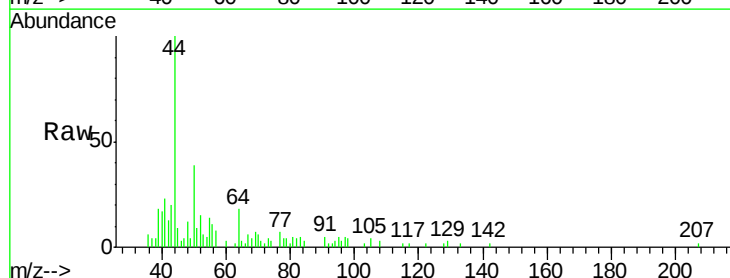
Acq: 16 Sep 2015 5:48

Tgt Ion: 50 Resp: 4140

Ion Ratio Lower Upper

50 100

52 35.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.01

4000

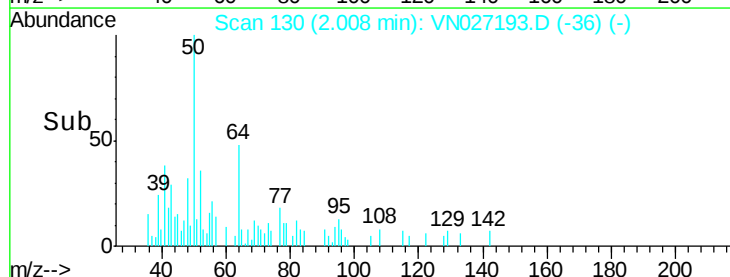
3000

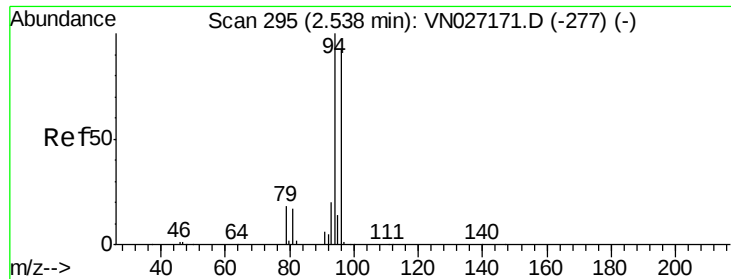
2000

1000

0

Time-->





#6

Bromomethane

Concen: 1.67 ug/l

RT: 2.54 min Scan# 295

Delta R.T. 0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampled :

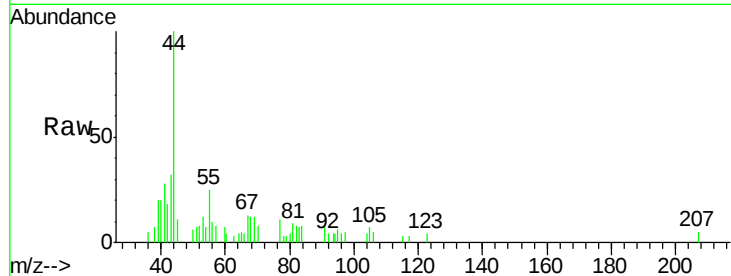
BFB

Tot Ion: 94 Resp: 406

Ion Ratio Lower Upper

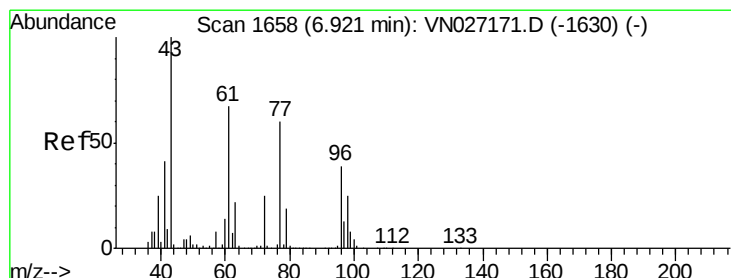
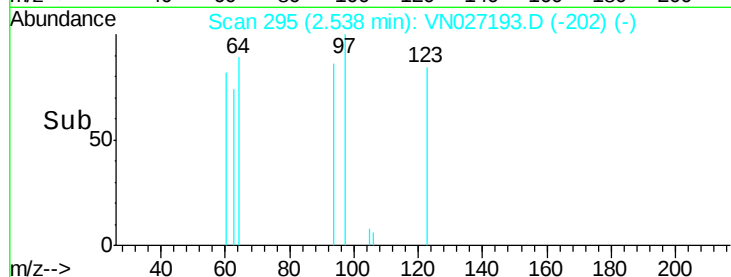
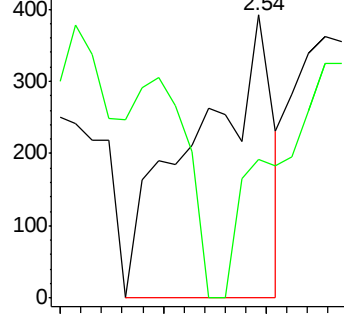
94 100

96 2.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#28

cis-1,2-Dichloroethene

Concen: 0.75 ug/l

RT: 6.92 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

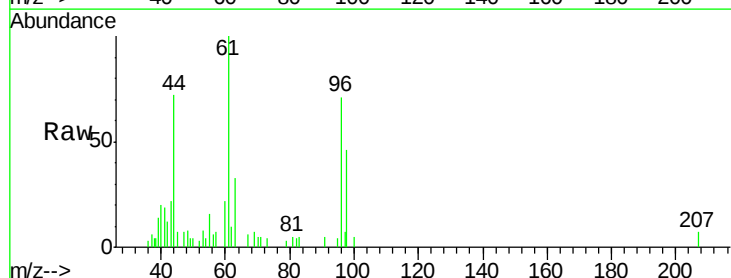
Tgt Ion: 96 Resp: 9750

Ion Ratio Lower Upper

96 100

61 138.7 0.0 329.2

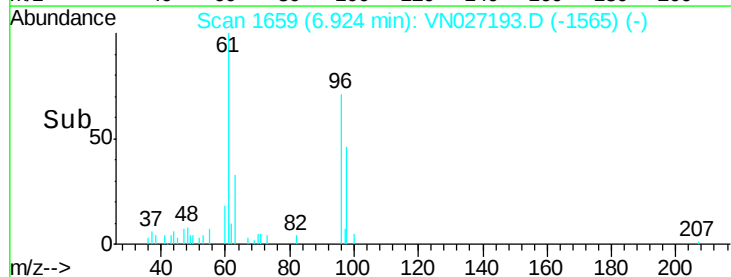
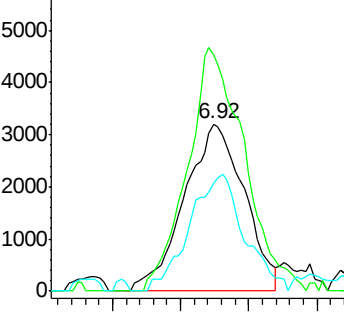
98 64.2 0.0 126.0

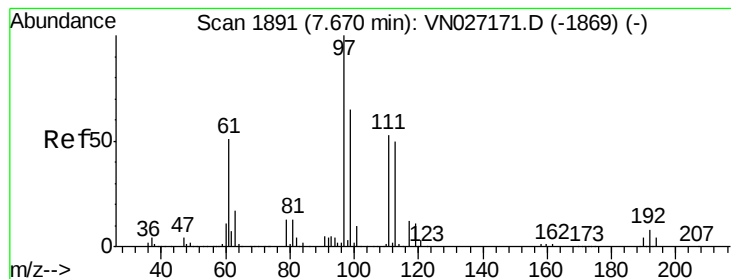


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#33

1,1,1-Trichloroethane

Concen: 1.20 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampled :

BFB

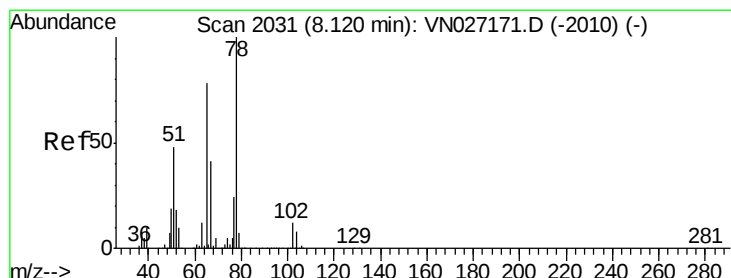
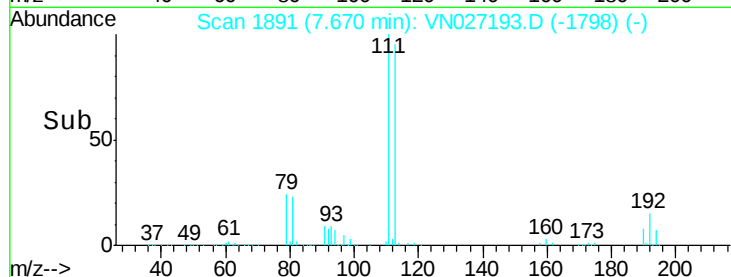
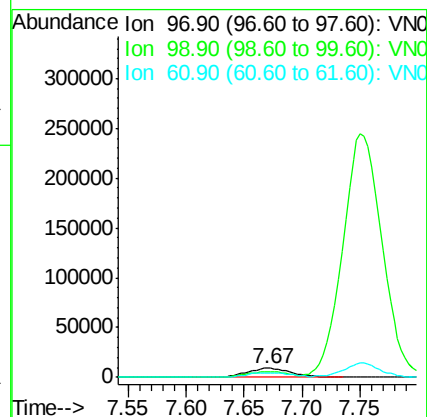
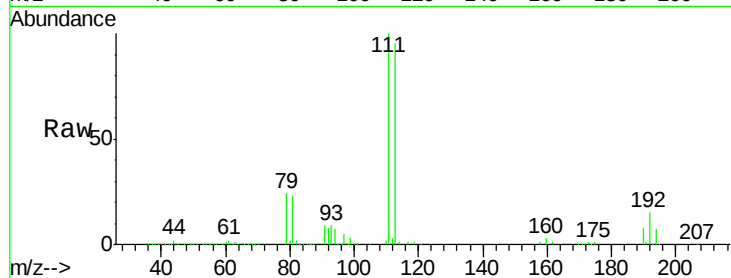
Tot Ion: 97 Resp: 24869

Ion Ratio Lower Upper

97 100

99 0.0 50.1 75.1#

61 48.7 44.0 66.0



#34

1,2-Dichloroethane-d4

Concen: 46.39 ug/l

RT: 8.12 min Scan# 2031

Delta R.T. -0.00 min

Lab File: VN027193.D

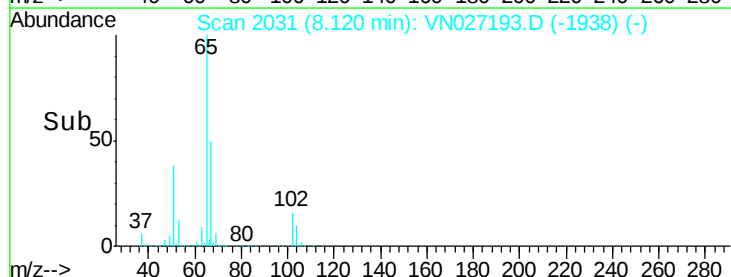
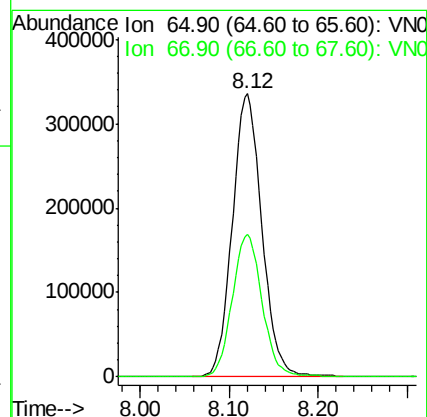
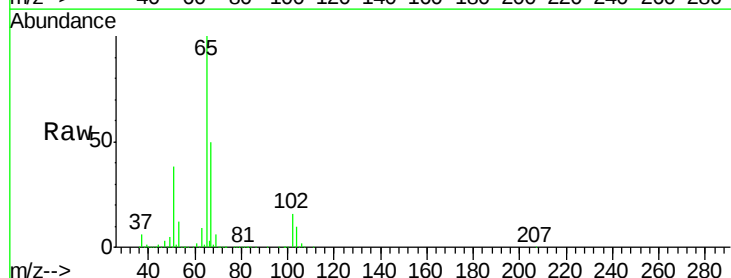
Acq: 16 Sep 2015 5:48

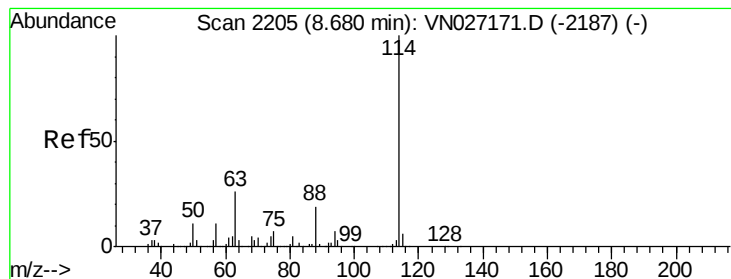
Tgt Ion: 65 Resp: 771434

Ion Ratio Lower Upper

65 100

67 50.9 0.0 110.6





#35

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.68 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampleId :

BFB

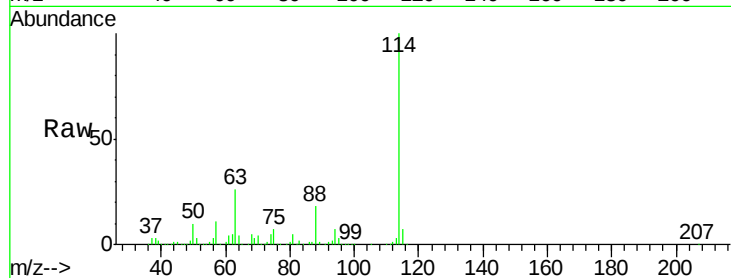
Tot Ion:114 Resp: 1435816

Ion Ratio Lower Upper

114 100

63 25.6 0.0 48.8

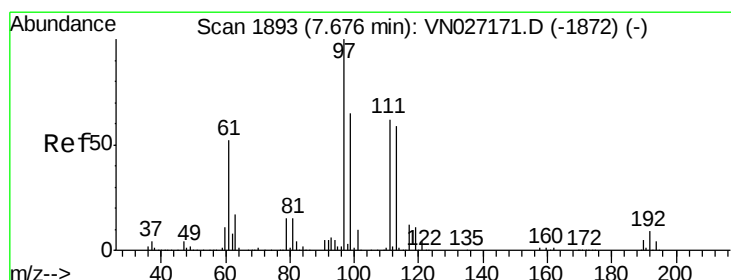
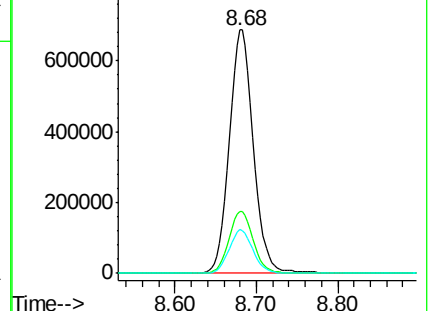
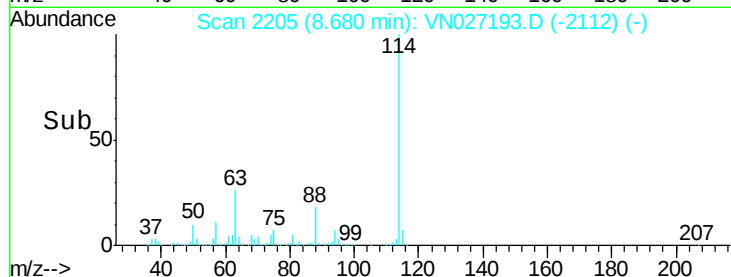
88 17.8 0.0 32.2



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



#36

Dibromofluoromethane

Concen: 51.13 ug/l

RT: 7.68 min Scan# 1894

Delta R.T. 0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

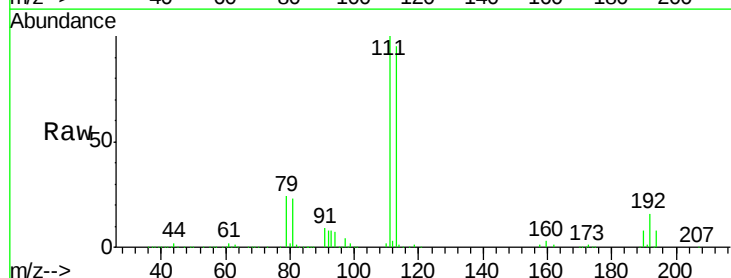
Tgt Ion:113 Resp: 508865

Ion Ratio Lower Upper

113 100

111 105.0 83.0 124.4

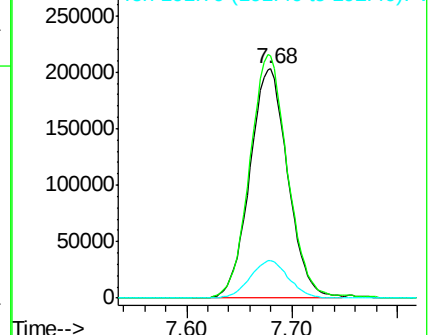
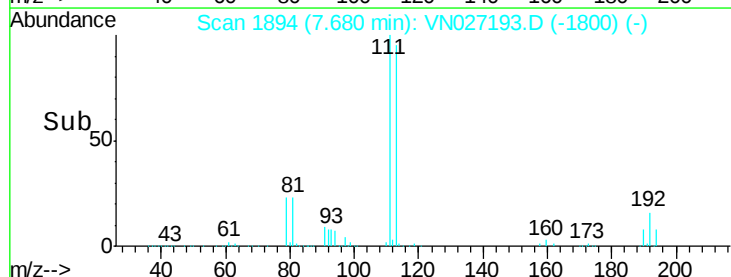
192 16.5 14.1 21.1

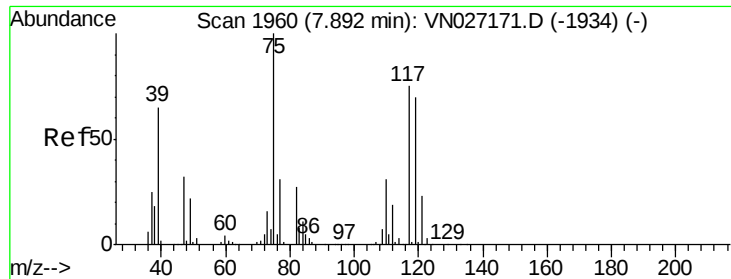


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

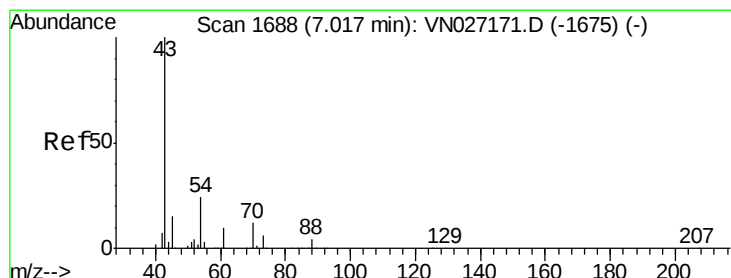
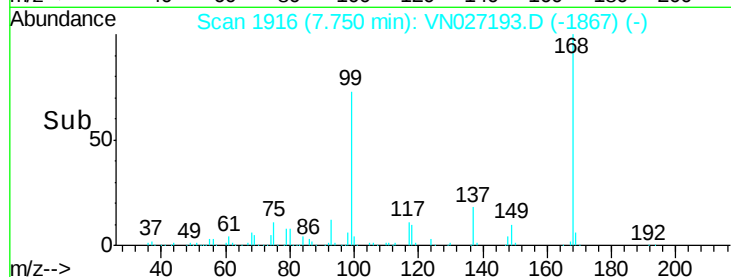
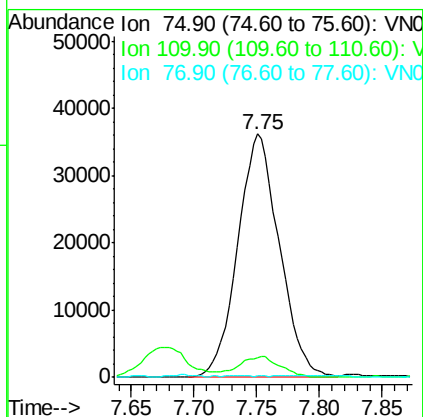
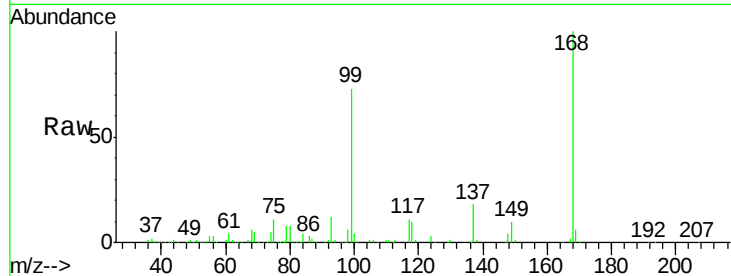




#37  
 1,1-Dichloropropene  
 Concen: 4.97 ug/l  
 RT: 7.75 min Scan# 1916  
 Delta R.T. -0.14 min  
 Lab File: VN027193.D  
 Acq: 16 Sep 2015 5:48

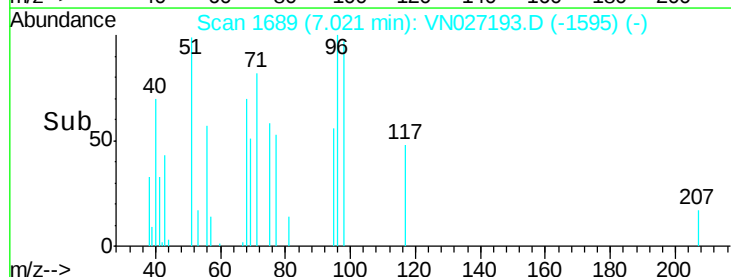
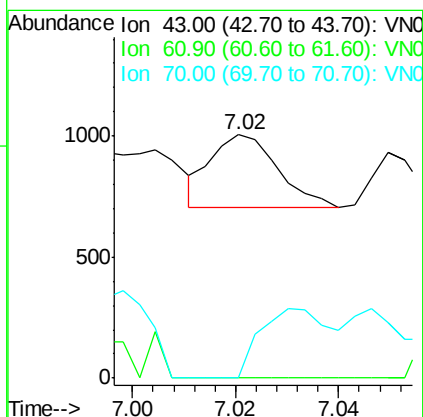
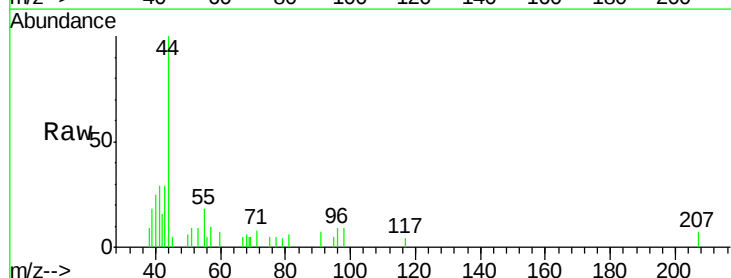
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BFB

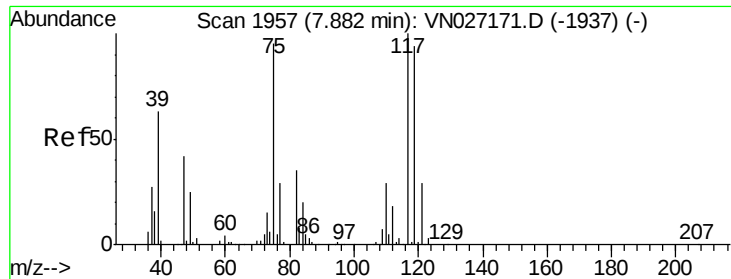
Tot Ion: 75 Resp: 83609  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 15.9 47.7#  
 77 0.2 24.9 37.3#



#38  
 Ethyl Acetate  
 Concen: Below Cal  
 RT: 7.02 min Scan# 1689  
 Delta R.T. 0.00 min  
 Lab File: VN027193.D  
 Acq: 16 Sep 2015 5:48

Tgt Ion: 43 Resp: 272  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 10.2 15.4#  
 70 99.3 7.4 11.0#





#39

Carbon Tetrachloride

Concen: 5.87 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. -0.13 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampled :

BFB

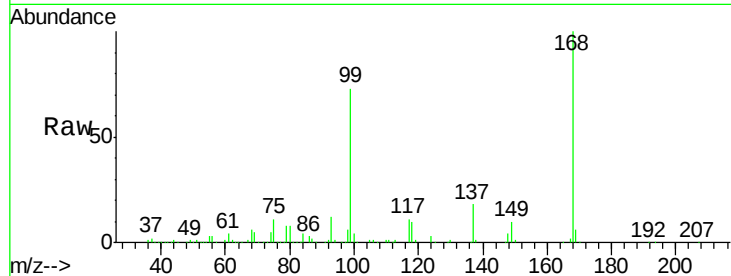
Tot Ion:117 Resp: 92729

Ion Ratio Lower Upper

117 100

119 4.9 75.3 112.9#

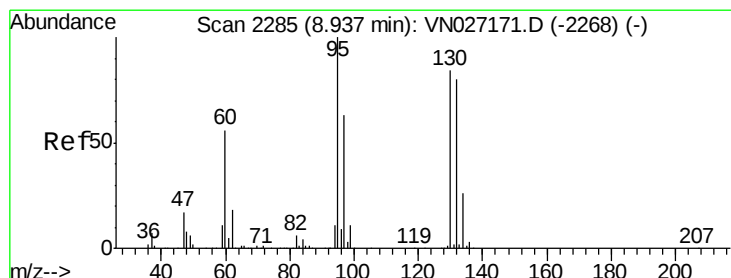
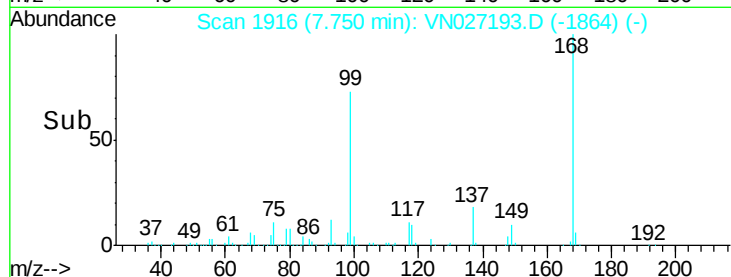
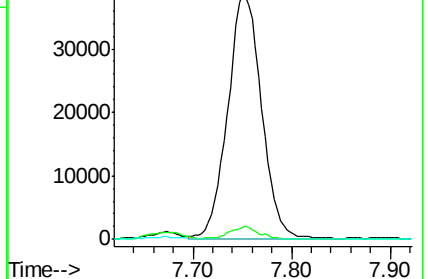
121 0.0 23.8 35.8#



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



#45

Trichloroethene

Concen: 3.67 ug/l

RT: 8.93 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN027193.D

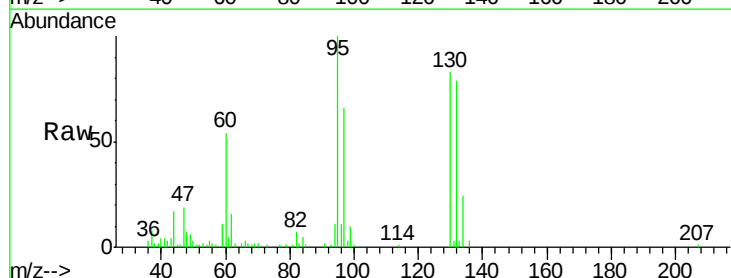
Acq: 16 Sep 2015 5:48

Tgt Ion:130 Resp: 36181

Ion Ratio Lower Upper

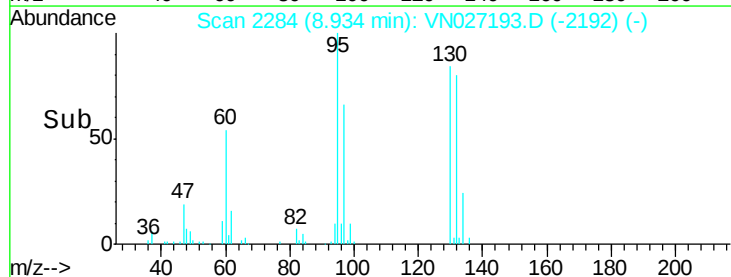
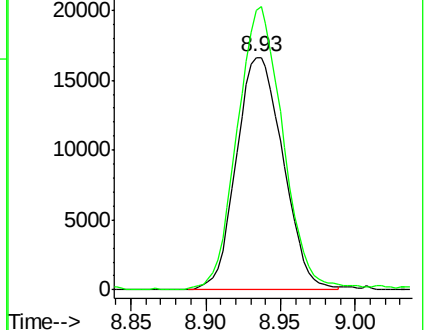
130 100

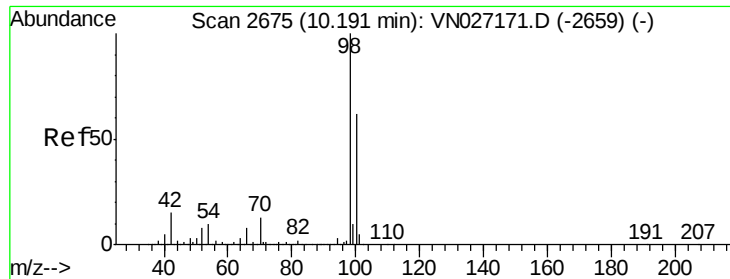
95 119.1 0.0 222.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#51

Toluene-d8

Concen: 53.38 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampled :

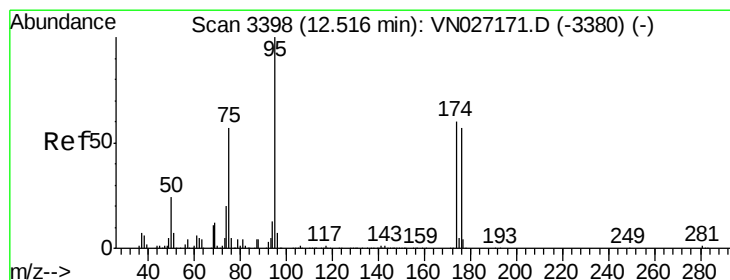
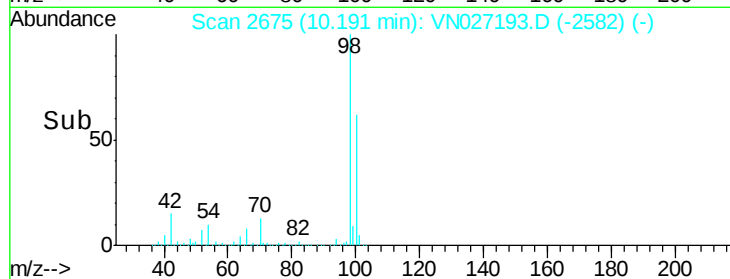
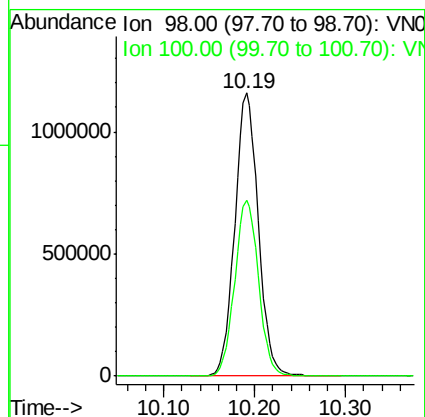
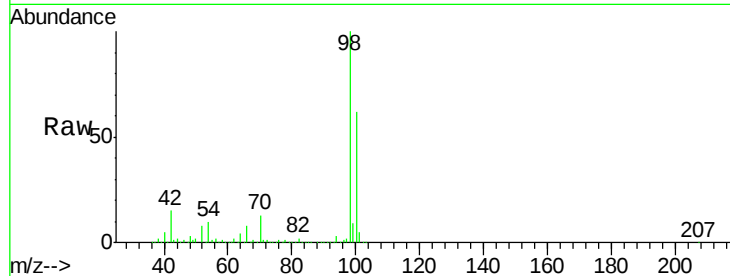
BFB

Tot Ion: 98 Resp: 2080083

Ion Ratio Lower Upper

98 100

100 63.0 50.5 75.7



#63

4-Bromofluorobenzene

Concen: 49.66 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.00 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

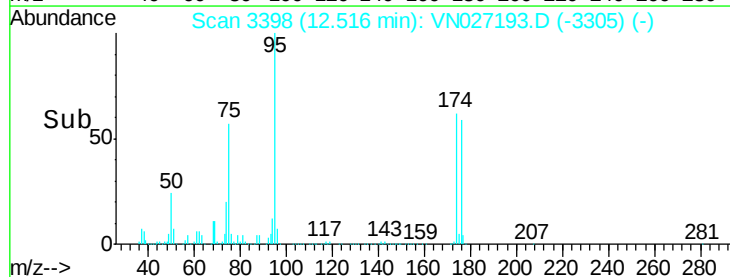
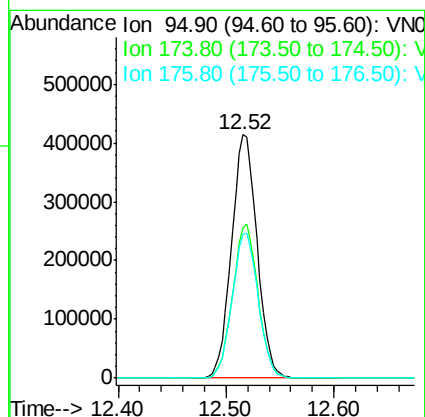
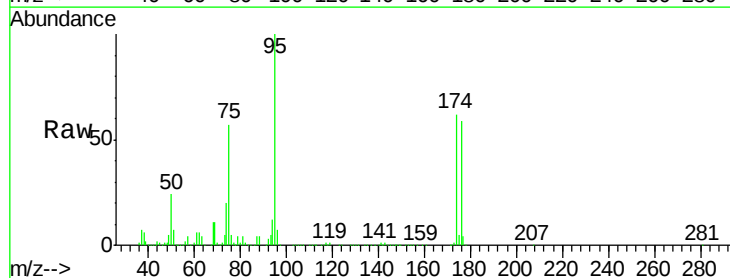
Tgt Ion: 95 Resp: 686900

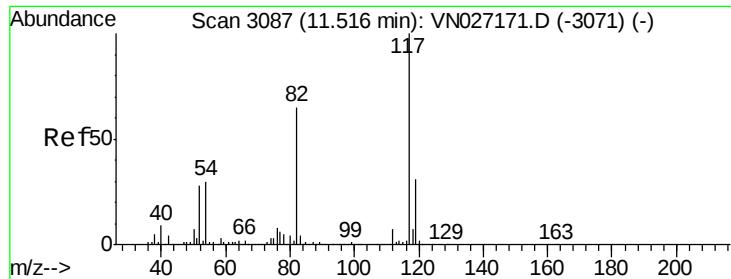
Ion Ratio Lower Upper

95 100

174 62.8 0.0 137.0

176 60.2 0.0 130.8

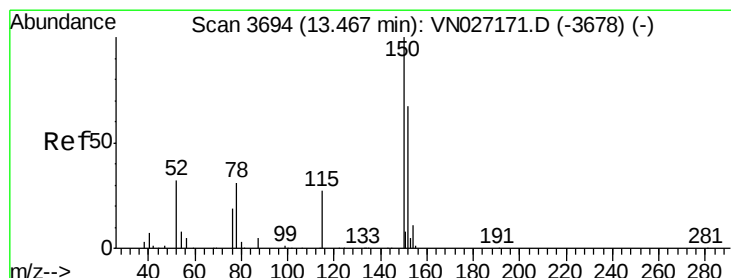
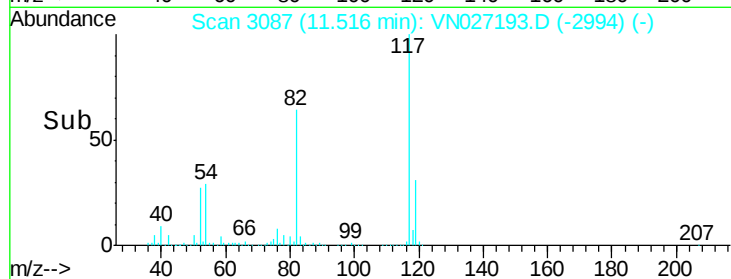
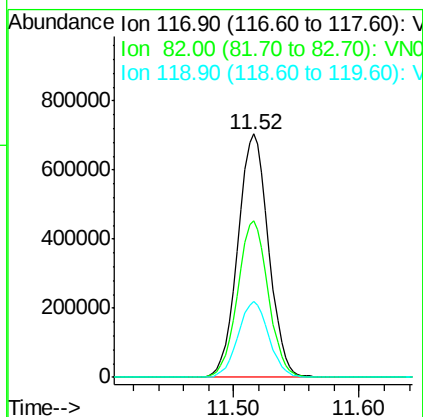
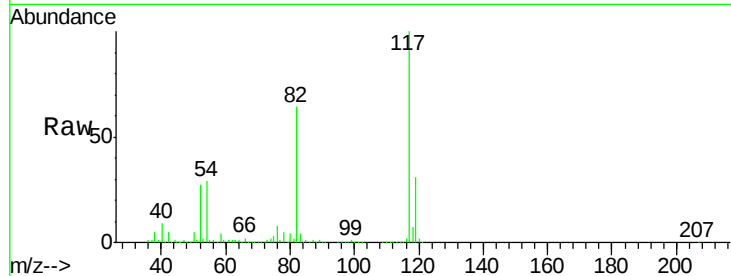




#64  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.52 min Scan# 3087  
Delta R.T. -0.00 min  
Lab File: VN027193.D  
Acq: 16 Sep 2015 5:48

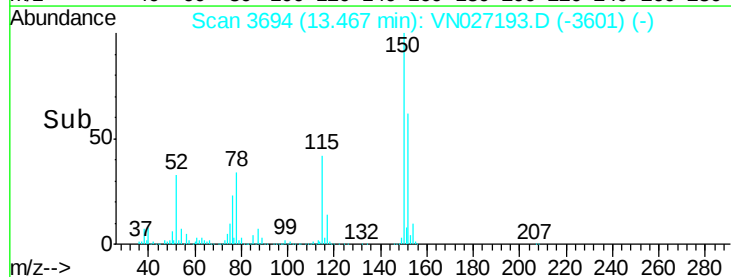
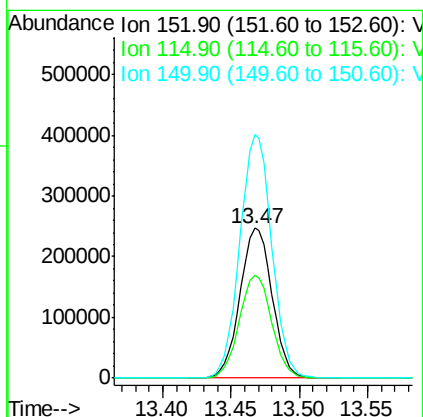
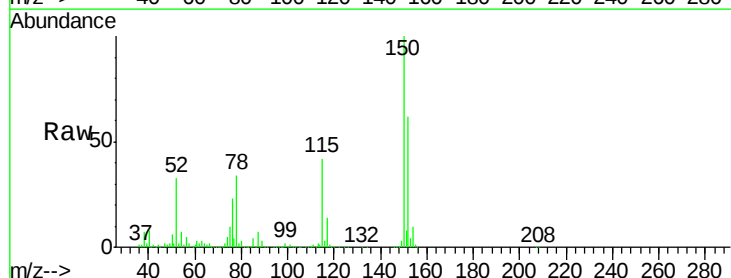
Instrument :  
MSVOA\_N  
ClientSampleId :  
BFB

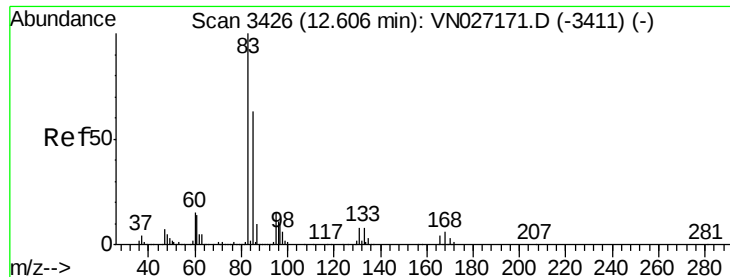
Tot Ion:117 Resp: 1193564  
Ion Ratio Lower Upper  
117 100  
82 64.1 49.6 74.4  
119 31.0 24.6 36.8



#73  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.47 min Scan# 3694  
Delta R.T. -0.00 min  
Lab File: VN027193.D  
Acq: 16 Sep 2015 5:48

Tgt Ion:152 Resp: 405987  
Ion Ratio Lower Upper  
152 100  
115 68.8 30.8 92.3  
150 161.1 0.0 345.0





#76

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.64 min Scan# 3438

Delta R.T. 0.04 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampleId :

BFB

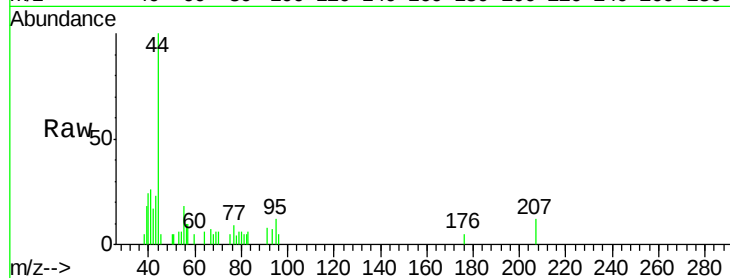
Tot Ion: 83 Resp: 256

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

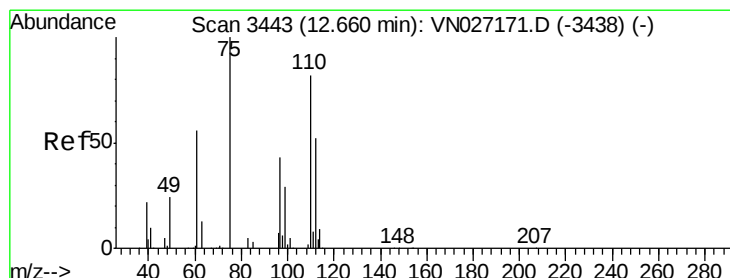
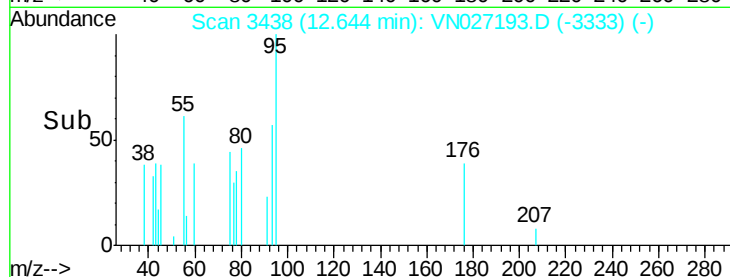
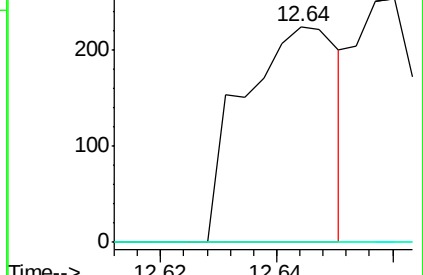
85 0.0 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#77

1,2,3-Trichloropropane

Concen: 31.69 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027193.D

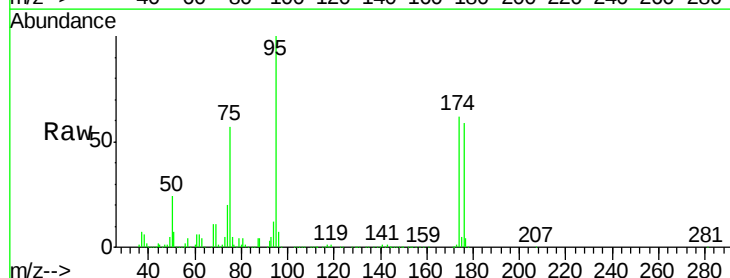
Acq: 16 Sep 2015 5:48

Tgt Ion: 75 Resp: 388871

Ion Ratio Lower Upper

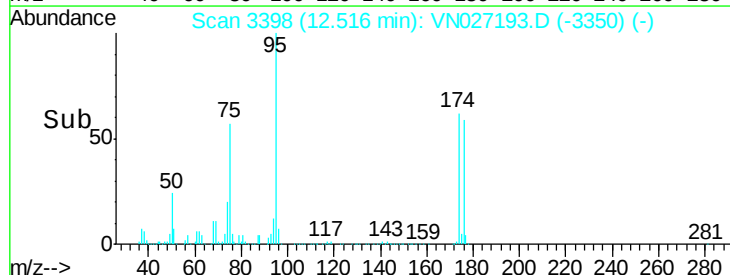
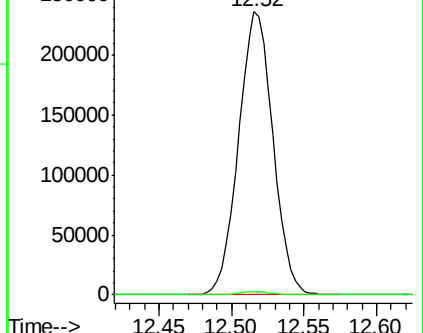
75 100

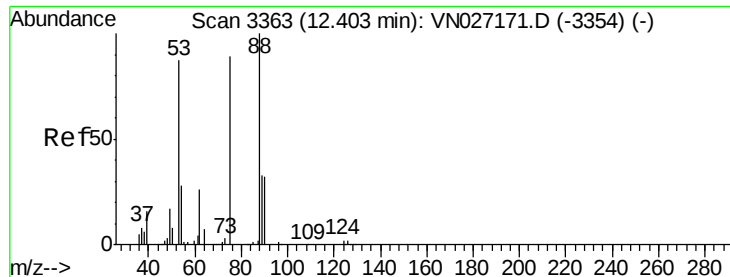
77 1.1 103.1 309.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#82

trans-1,4-Dichloro-2-butene

Concen: 77.85 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

Instrument :

MSVOA\_N

ClientSampleId :

BFB

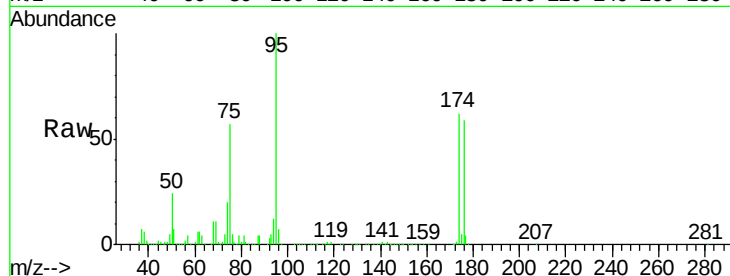
Tot Ion: 75 Resp: 388871

Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

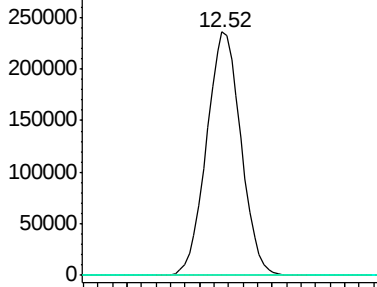
89 0.0 34.2 51.4#



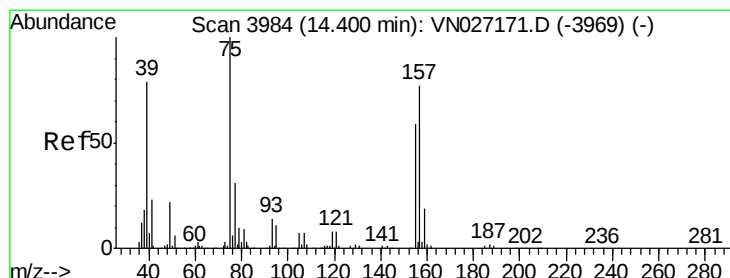
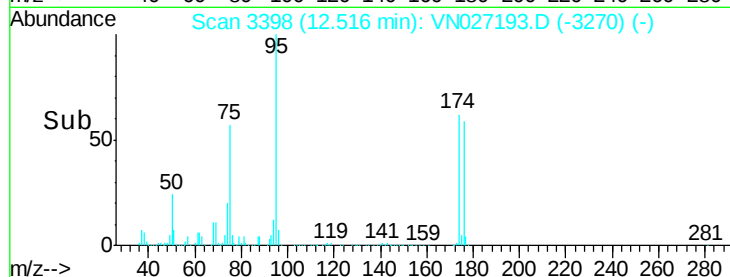
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->



#93

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.38 min Scan# 3978

Delta R.T. -0.02 min

Lab File: VN027193.D

Acq: 16 Sep 2015 5:48

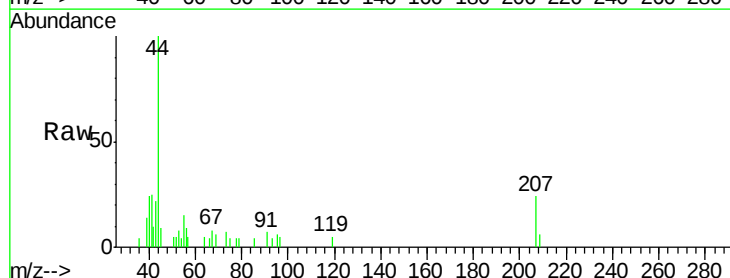
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.9#

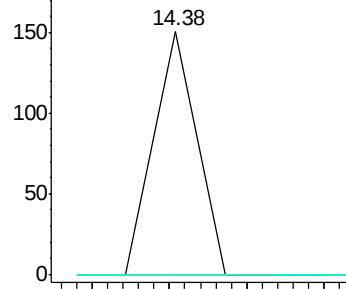
157 0.0 44.6 133.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time-->

