

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110819\  
 Data File : VY000613.D  
 Acq On : 08 Nov 2019 13:43  
 Operator : SY/MD  
 Sample : K5722-12  
 Misc : 6.23G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 1-B

Quant Time: Nov 11 04:44:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 212216   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 388453   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 352817   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 159491   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 134228   | 61.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 122.24% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 113298   | 49.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.36%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 451011   | 52.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.24% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 159245   | 48.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.68%  |          |

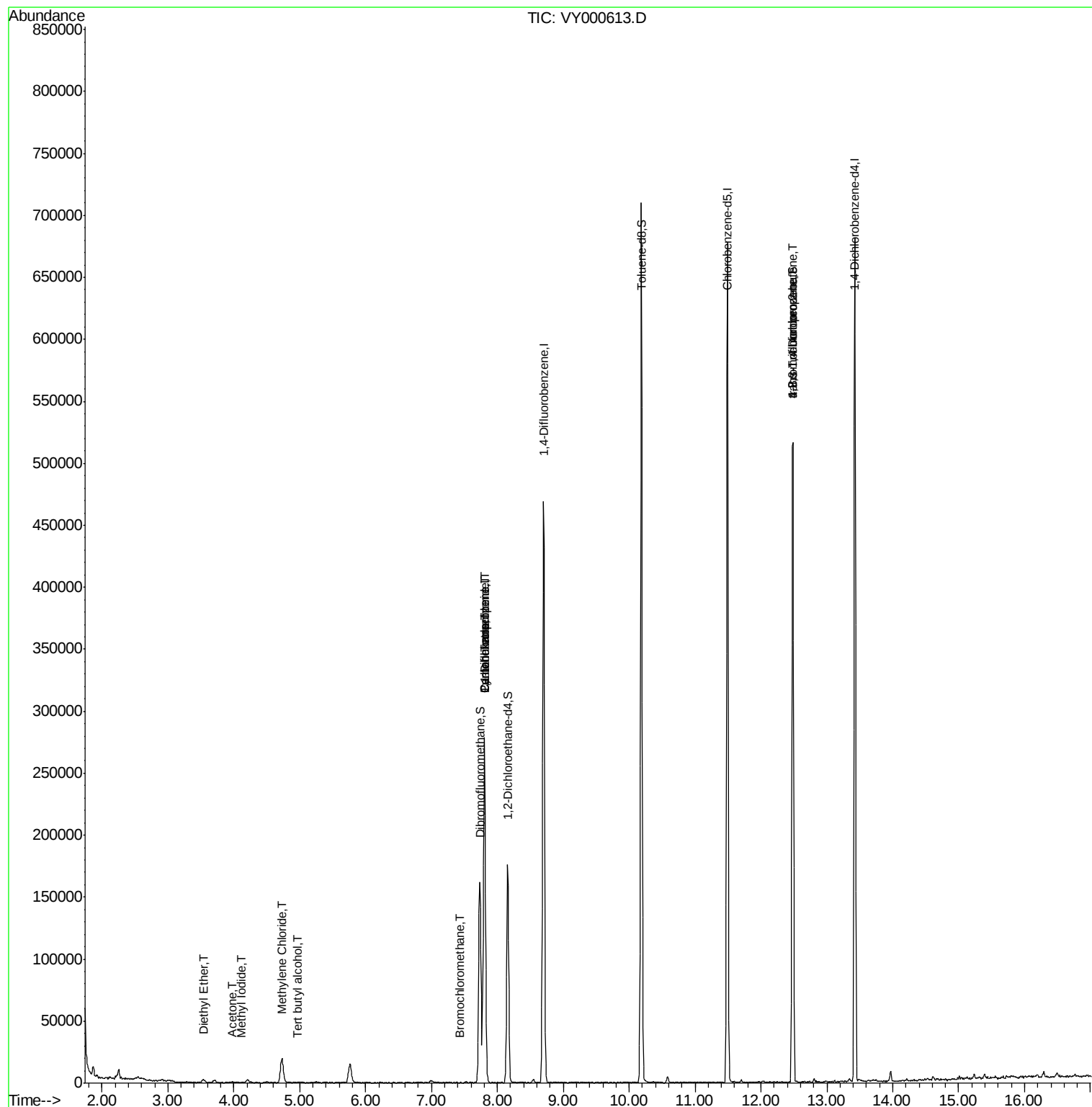
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.54  | 74   | 1492     | 1.163   | ug/l   | 69     |
| 10) Methyl Iodide              | 4.11  | 142  | 56       | 3.218   | ug/l # | 41     |
| 11) Tert butyl alcohol         | 4.97  | 59   | 292      | 1.366   | ug/l # | 72     |
| 16) Acetone                    | 3.97  | 43   | 1247     | 2.060   | ug/l # | 84     |
| 20) Methylene Chloride         | 4.73  | 84   | 14586    | 5.624   | ug/l   | 96     |
| 28) Bromochloromethane         | 7.43  | 49   | 25       | 4.105   | ug/l # | 14     |
| 31) Cyclohexane                | 7.80  | 56   | 4853     | 1.142   | ug/l # | 35     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 17140    | 4.667   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 21007    | 5.945   | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 85916    | 47.310  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 85916    | 106.075 | ug/l # | 13     |

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

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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampled :  
1-B

Quant Time: Nov 11 04:44:00 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 30 13:30:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.01 min

Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Instrument :

MSVOA\_Y

ClientSampled :

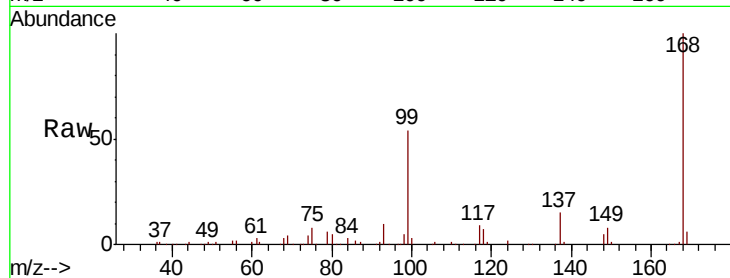
1-B

Tot Ion:168 Resp: 212216

Ion Ratio Lower Upper

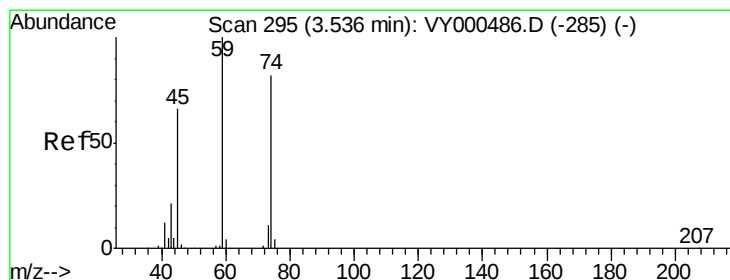
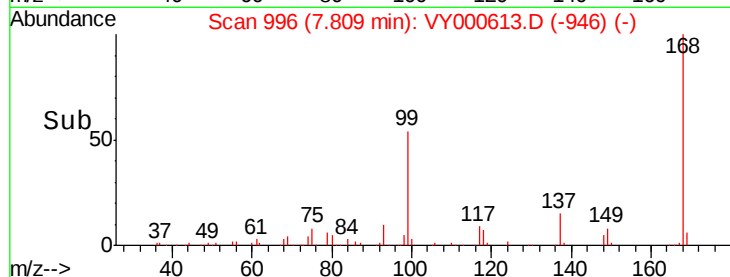
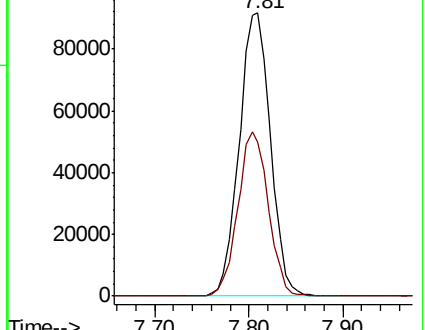
168 100

99 54.3 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY000486.D (-985) (-)



#8

Diethyl Ether

Concen: 1.163 ug/l

RT: 3.54 min Scan# 295

Delta R.T. -0.00 min

Lab File: VY000613.D

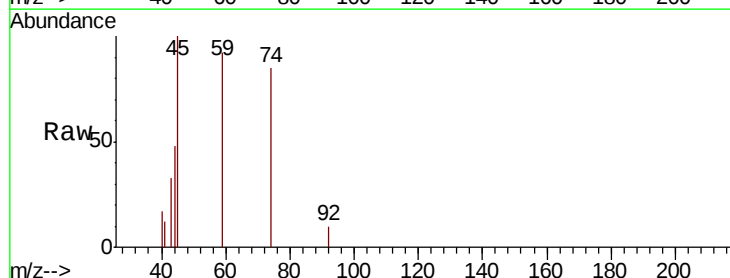
Acq: 08 Nov 2019 13:43

Tgt Ion: 74 Resp: 1492

Ion Ratio Lower Upper

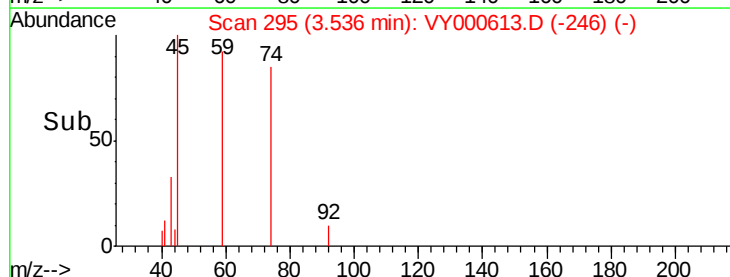
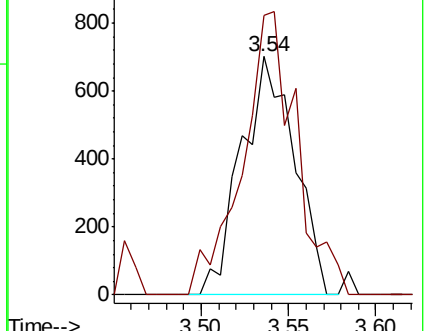
74 100

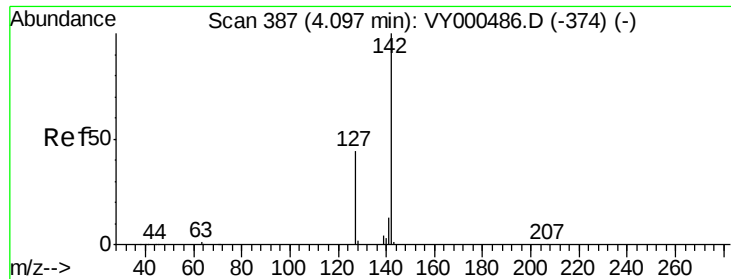
45 120.0 45.5 136.4



Abundance Ion 74.00 (73.70 to 74.70): VY000486.D (-285) (-)

Ion 45.00 (44.70 to 45.70): VY000486.D (-285) (-)

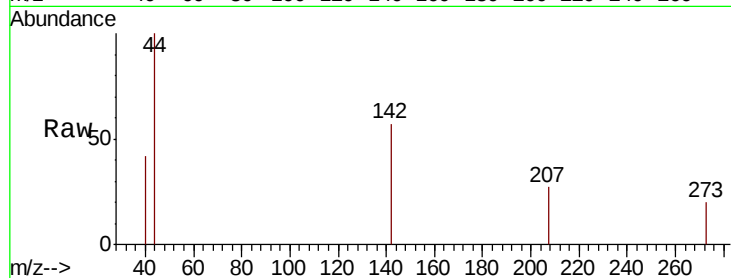




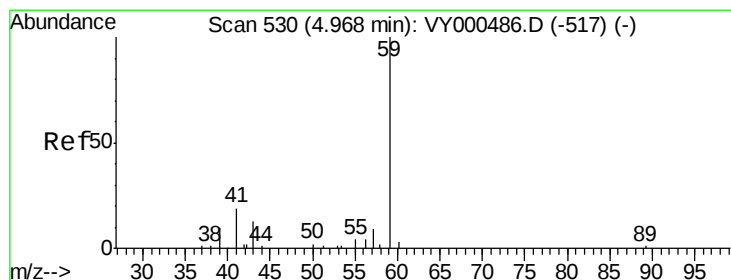
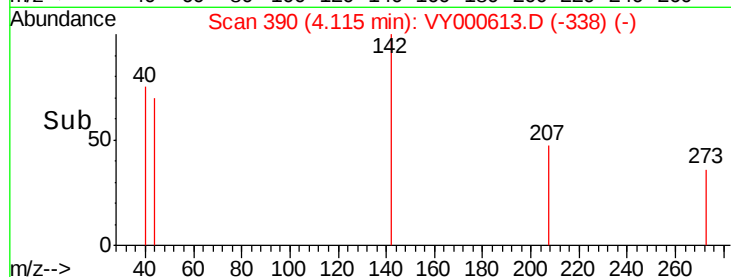
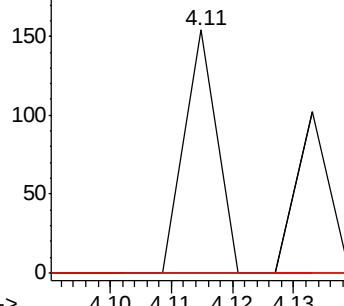
#10  
Methyl Iodide  
Concen: 3.218 ug/l  
RT: 4.11 min Scan# 390  
Delta R.T. 0.02 min  
Lab File: VY000613.D  
Acq: 08 Nov 2019 13:43

Instrument :  
MSVOA\_Y  
ClientSampled :  
1-B

Tot Ion:142 Resp: 56  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.7 50.5#  
141 0.0 10.9 16.3#

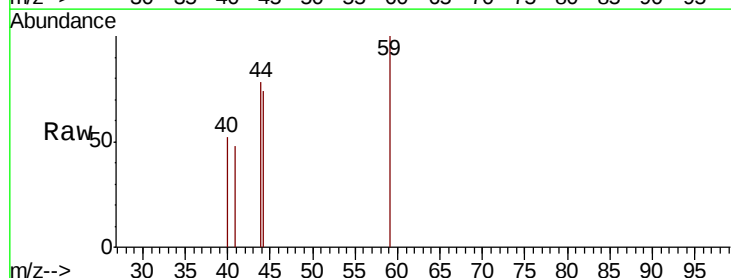


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

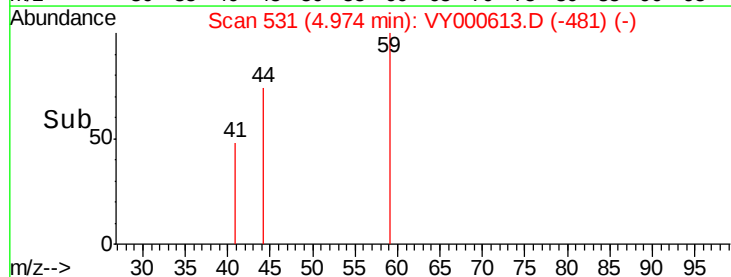
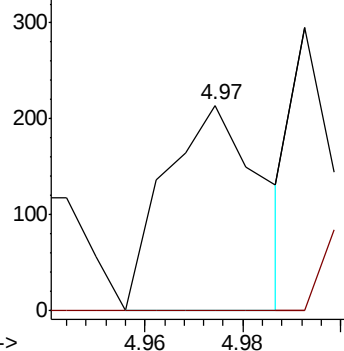


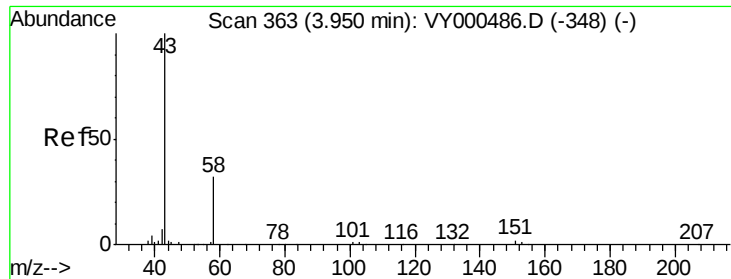
#11  
Tert butyl alcohol  
Concen: 1.366 ug/l  
RT: 4.97 min Scan# 531  
Delta R.T. 0.01 min  
Lab File: VY000613.D  
Acq: 08 Nov 2019 13:43

Tgt Ion: 59 Resp: 292  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VY0  
Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 2.060 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.02 min

Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Instrument :

MSVOA\_Y

ClientSampleId :

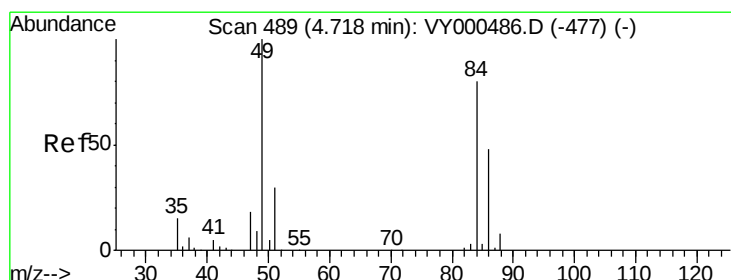
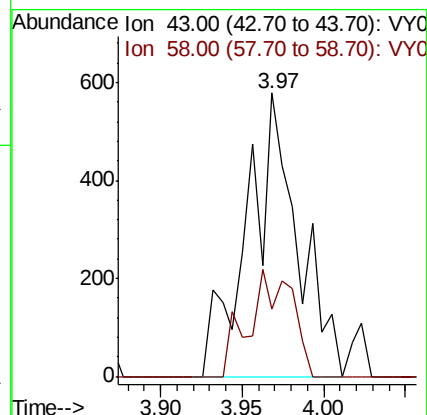
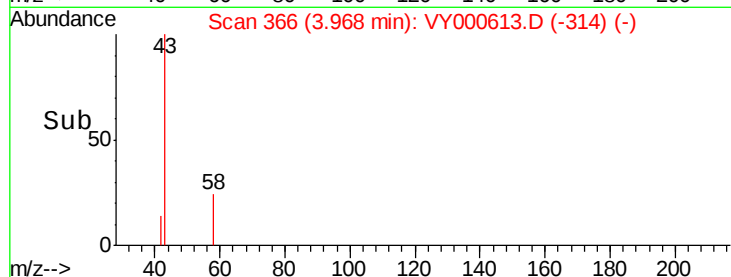
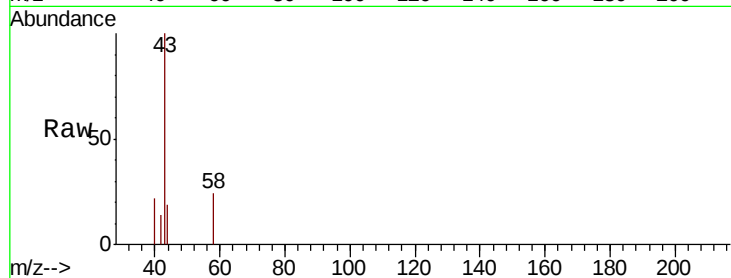
1-B

Tot Ion: 43 Resp: 1247

Ion Ratio Lower Upper

43 100

58 23.5 25.8 38.6#



#20

Methylene Chloride

Concen: 5.624 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Tgt Ion: 84 Resp: 14586

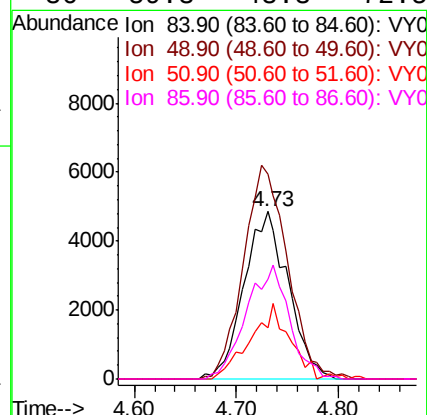
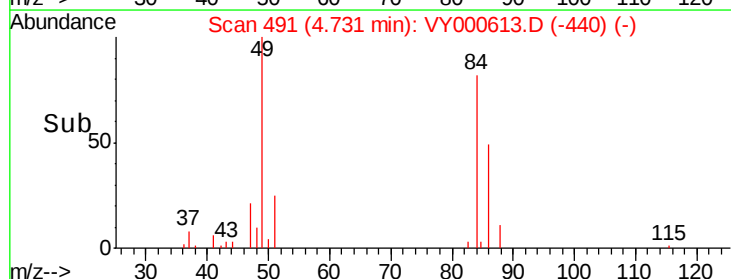
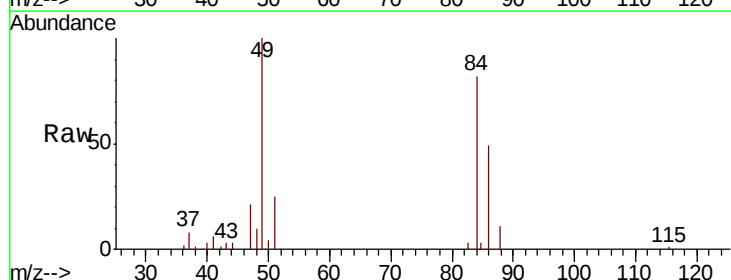
Ion Ratio Lower Upper

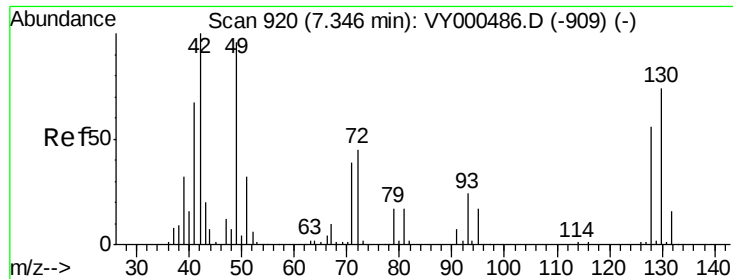
84 100

49 121.9 100.2 150.4

51 30.2 29.6 44.4

86 59.3 48.3 72.5





#28

Bromochloromethane

Concen: 4.105 ug/l

RT: 7.43 min Scan# 934

Delta R.T. 0.09 min

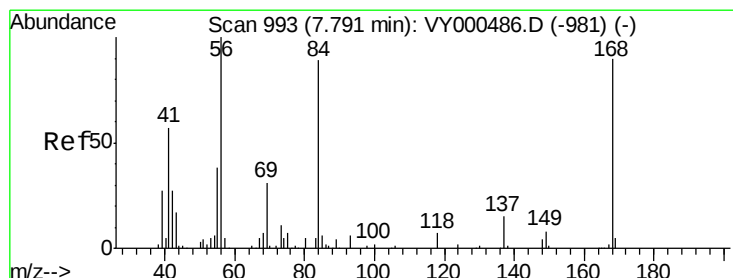
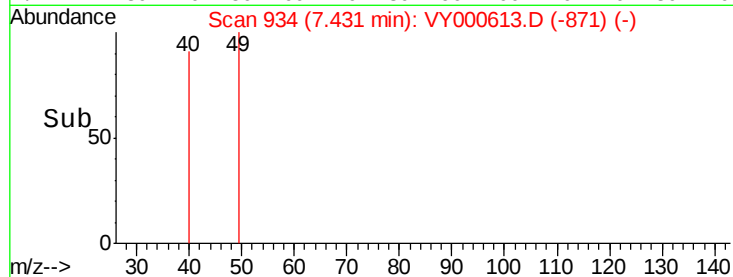
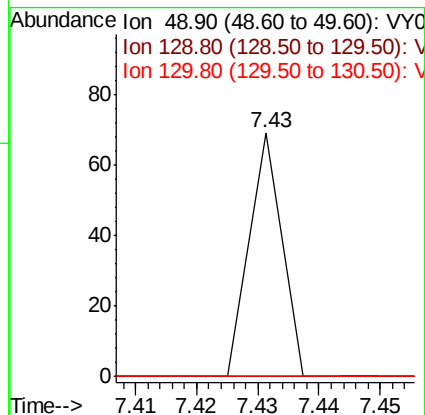
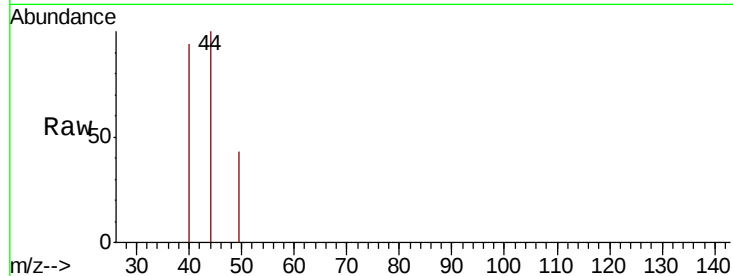
Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Instrument :  
MSVOA\_Y  
ClientSampleId :  
1-B

Tot Ion: 49 Resp: 25

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 129 | 0.0   | 0.0   | 3.6   |
| 130 | 0.0   | 59.4  | 89.0# |



#31

Cyclohexane

Concen: 1.142 ug/l

RT: 7.80 min Scan# 994

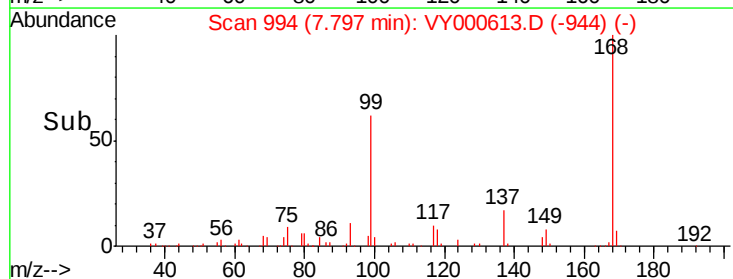
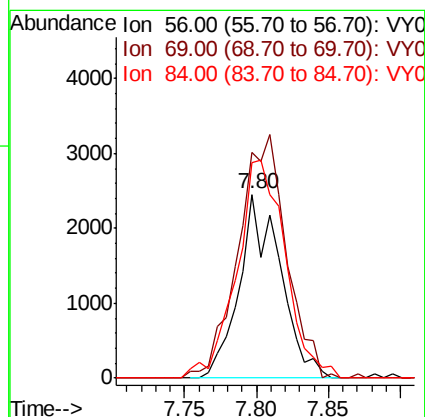
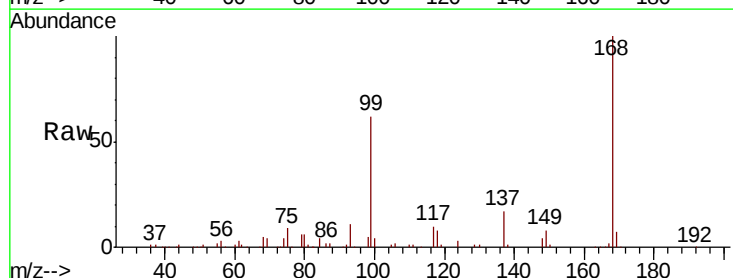
Delta R.T. 0.01 min

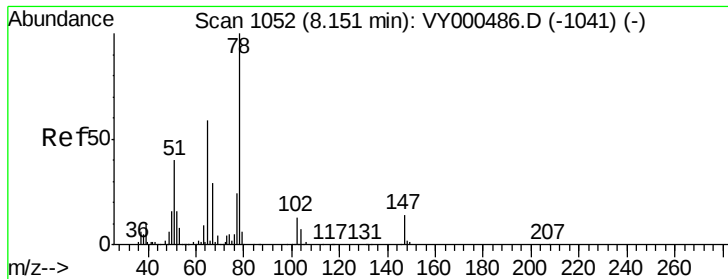
Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Tgt Ion: 56 Resp: 4853

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 123.3 | 25.0  | 37.6#  |
| 84  | 117.3 | 71.4  | 107.2# |

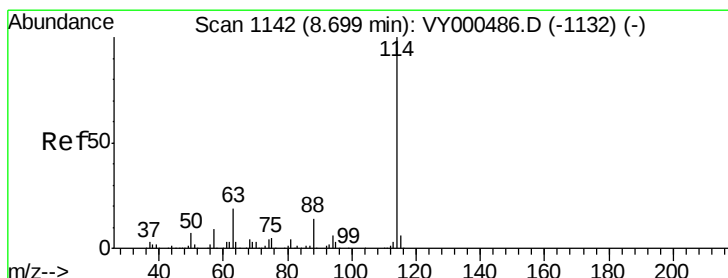
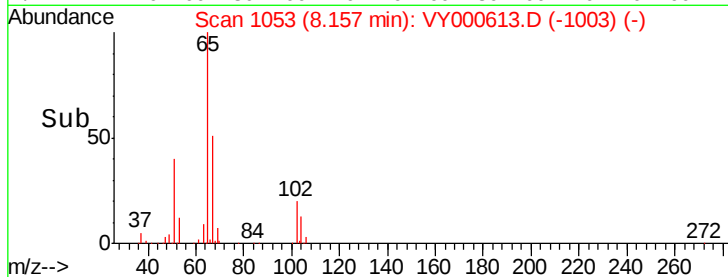
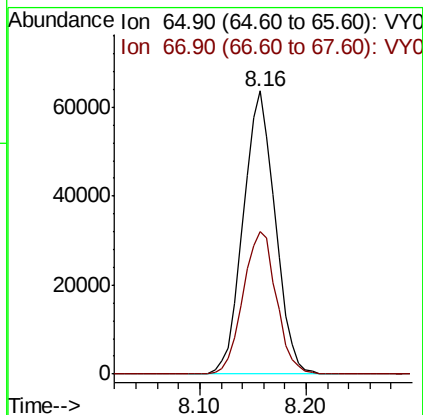
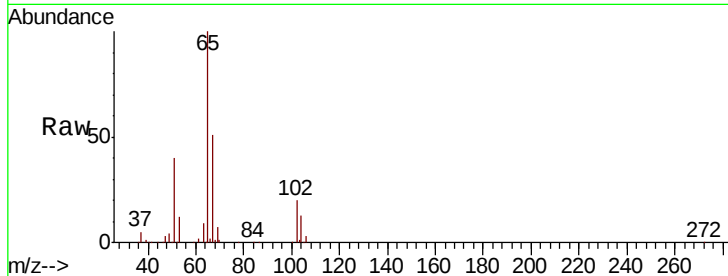




#33  
 1,2-Dichloroethane-d4  
 Concen: 61.119 ug/l  
 RT: 8.16 min Scan# 1053  
 Delta R.T. 0.01 min  
 Lab File: VY000613.D  
 Acq: 08 Nov 2019 13:43

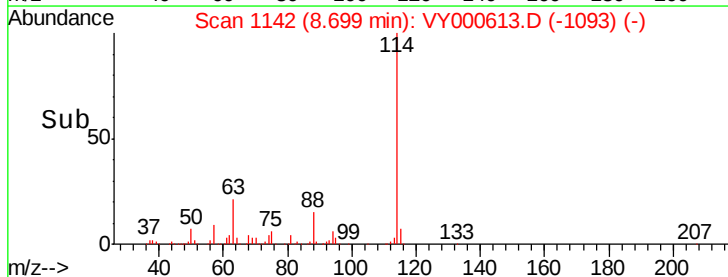
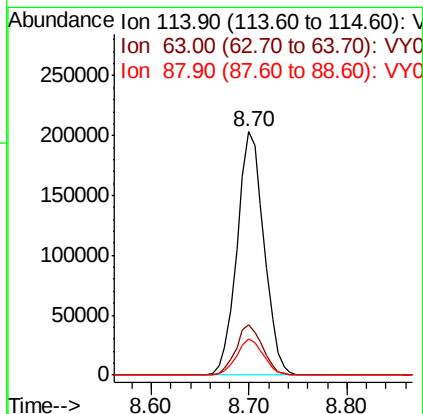
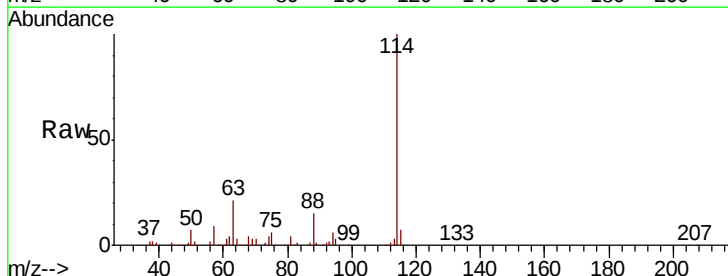
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 1-B

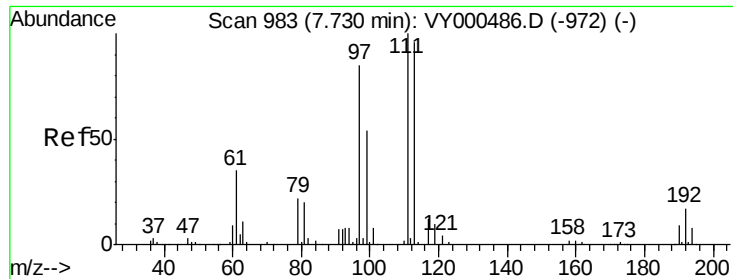
Tot Ion: 65 Resp: 134228  
 Ion Ratio Lower Upper  
 65 100  
 67 52.4 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY000613.D  
 Acq: 08 Nov 2019 13:43

Tgt Ion: 114 Resp: 388453  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 38.0  
 88 14.7 0.0 28.6





#35

Dibromofluoromethane

Concen: 49.682 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Instrument :

MSVOA\_Y

ClientSampleId :

1-B

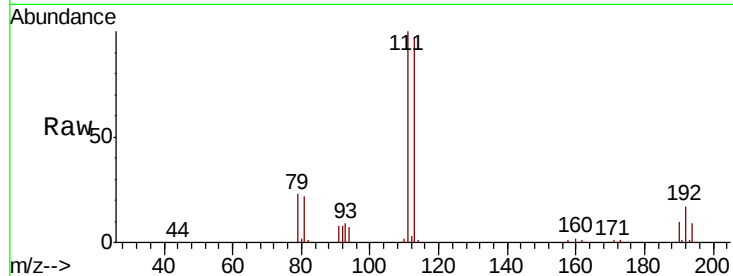
Tot Ion:113 Resp: 113298

Ion Ratio Lower Upper

113 100

111 103.9 81.7 122.5

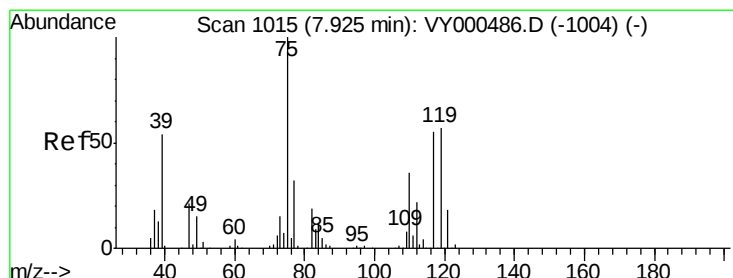
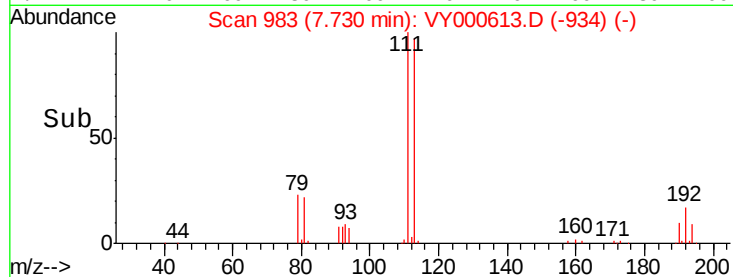
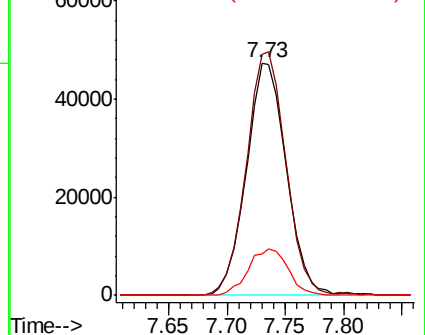
192 20.1 15.0 22.4



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: 4.667 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.12 min

Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

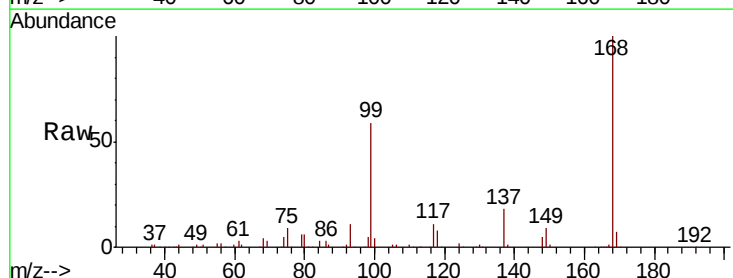
Tgt Ion: 75 Resp: 17140

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.1#

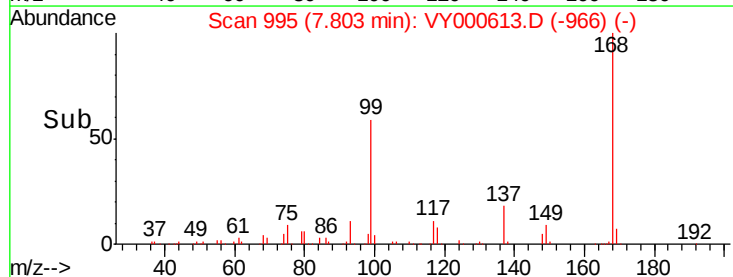
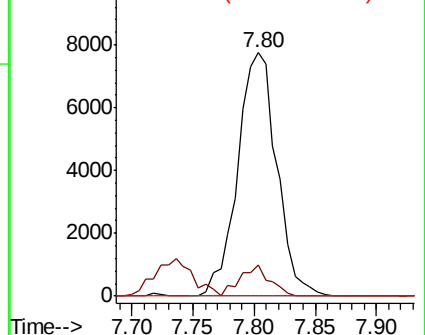
77 0.0 25.0 37.6#

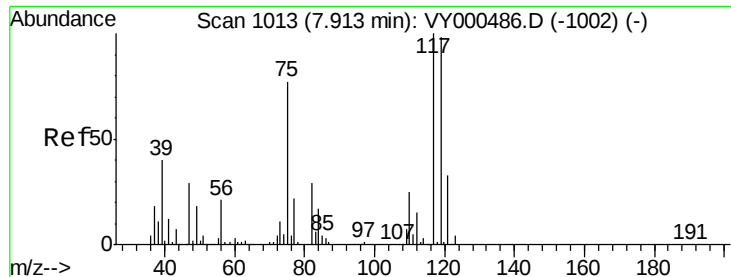


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

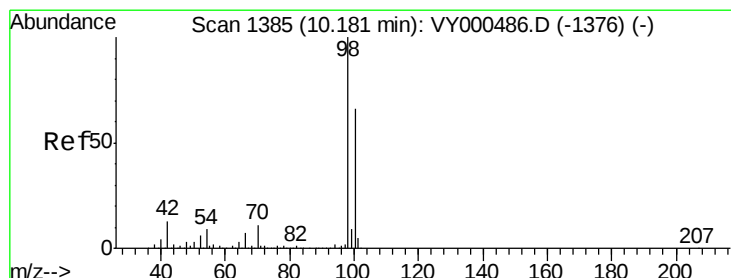
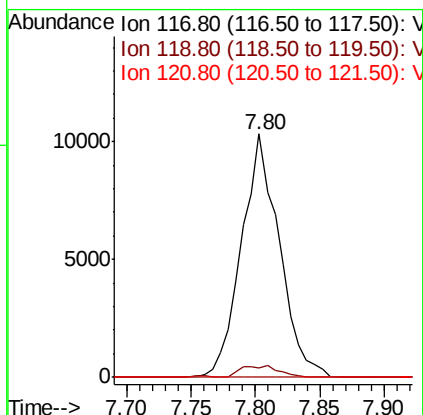
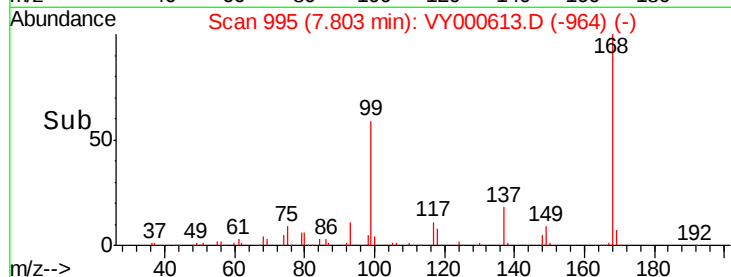
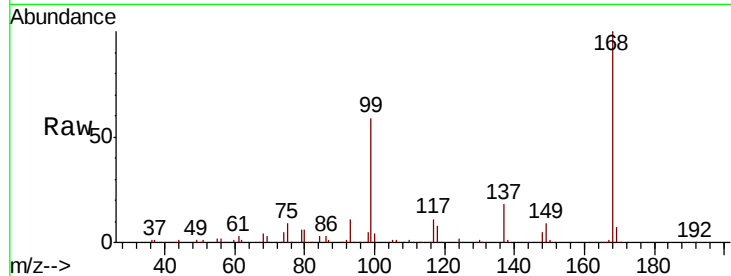




#38  
Carbon Tetrachloride  
Concen: 5.945 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. -0.11 min  
Lab File: VY000613.D  
Acq: 08 Nov 2019 13:43

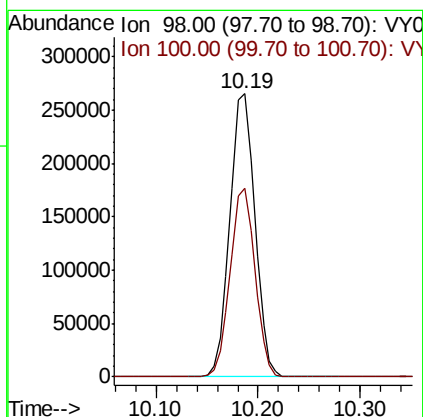
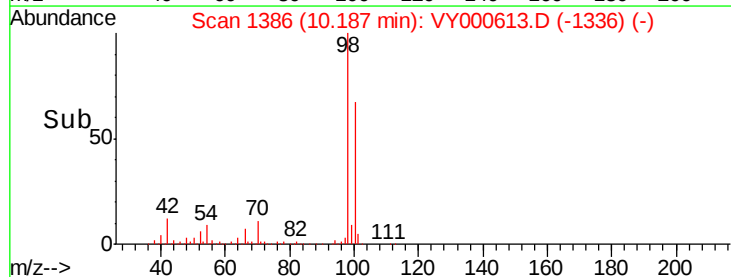
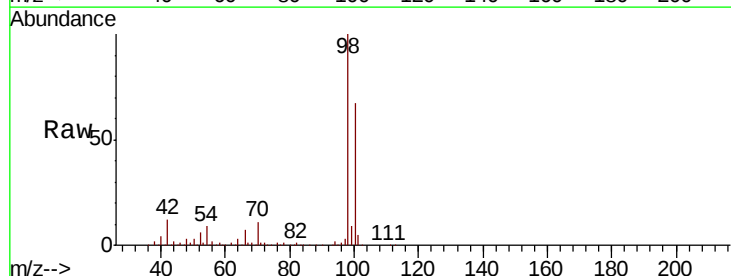
Instrument :  
MSVOA\_Y  
ClientSampled :  
1-B

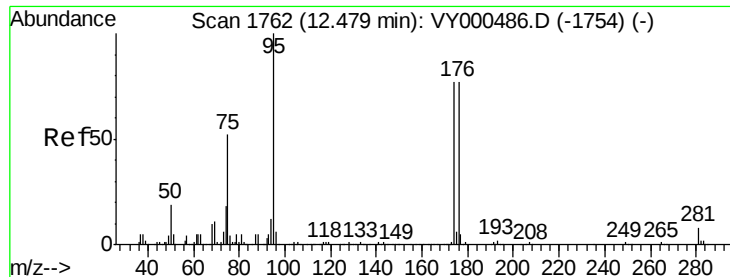
Tot Ion:117 Resp: 21007  
Ion Ratio Lower Upper  
117 100  
119 3.9 78.0 117.0#  
121 0.0 26.6 40.0#



#50  
Toluene-d8  
Concen: 52.121 ug/l  
RT: 10.19 min Scan# 1386  
Delta R.T. 0.01 min  
Lab File: VY000613.D  
Acq: 08 Nov 2019 13:43

Tgt Ion: 98 Resp: 451011  
Ion Ratio Lower Upper  
98 100  
100 66.0 52.9 79.3

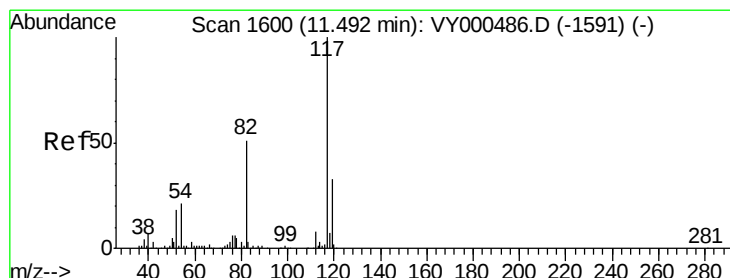
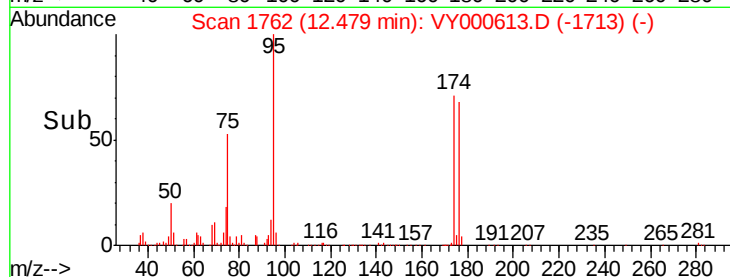
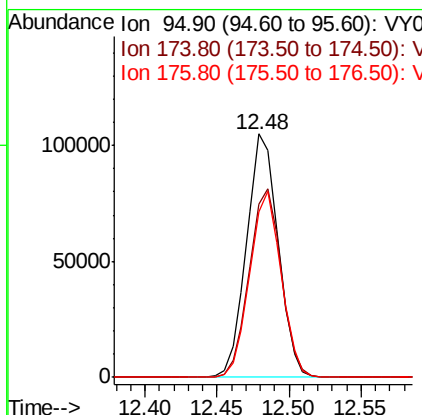
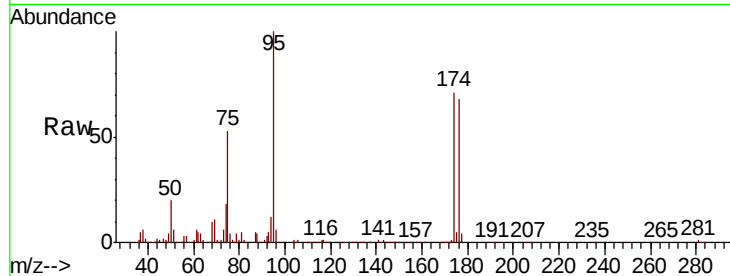




#62  
4-Bromofluorobenzene  
Concen: 48.341 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY000613.D  
Acq: 08 Nov 2019 13:43

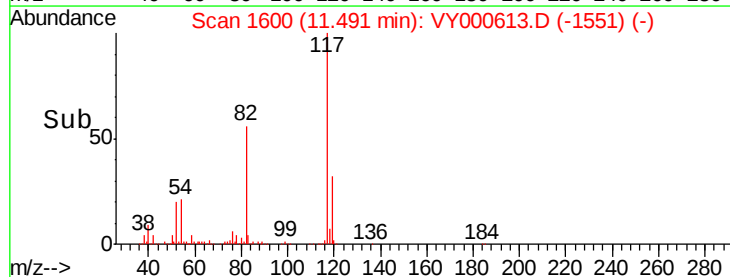
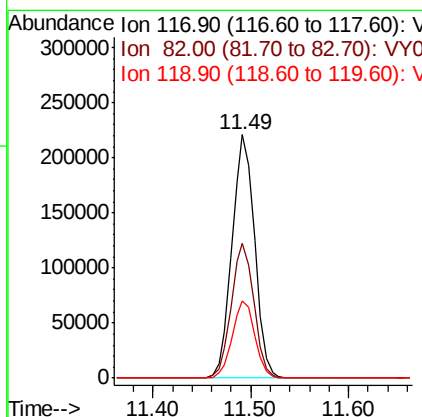
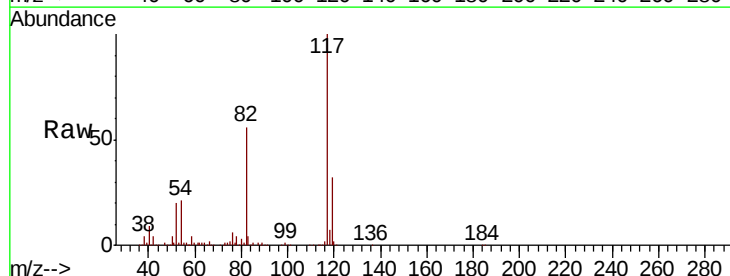
Instrument :  
MSVOA\_Y  
ClientSampled :  
1-B

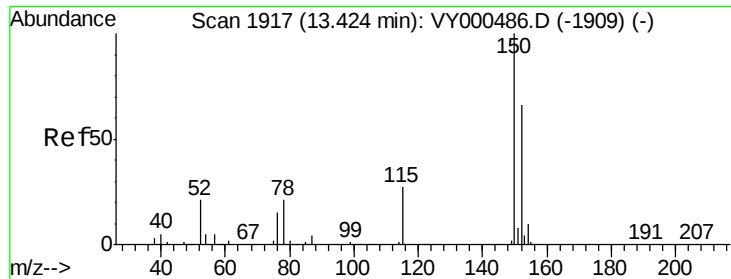
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 78.6  | 0.0   | 161.6 |
| 176     | 75.9  | 0.0   | 157.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000613.D  
Acq: 08 Nov 2019 13:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.6  | 40.8  | 61.2  |
| 119     | 31.8  | 26.2  | 39.2  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Instrument :

MSVOA\_Y

ClientSampleId :

1-B

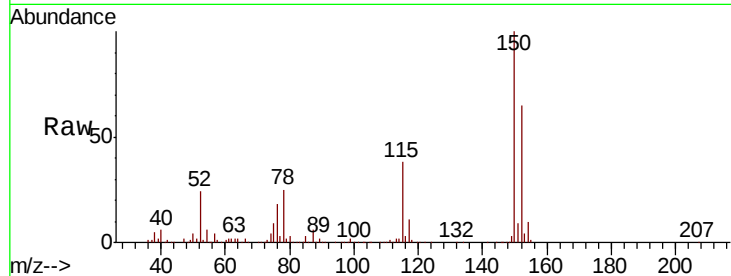
Tot Ion:152 Resp: 159491

Ion Ratio Lower Upper

152 100

115 59.1 29.1 87.4

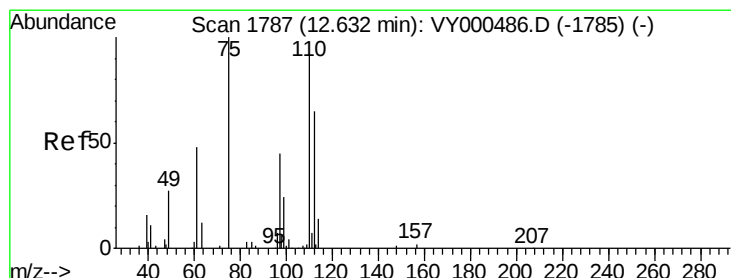
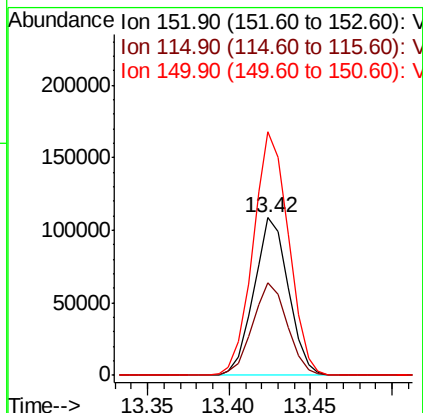
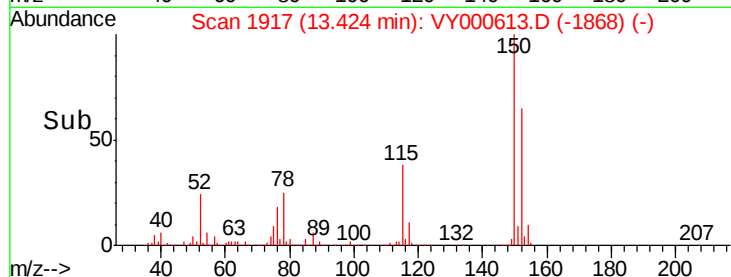
150 158.6 0.0 348.8



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: 47.310 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000613.D

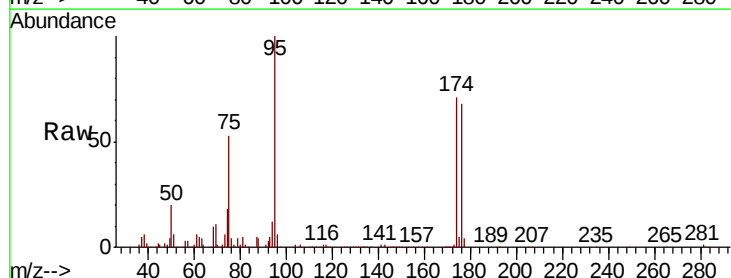
Acq: 08 Nov 2019 13:43

Tgt Ion: 75 Resp: 85916

Ion Ratio Lower Upper

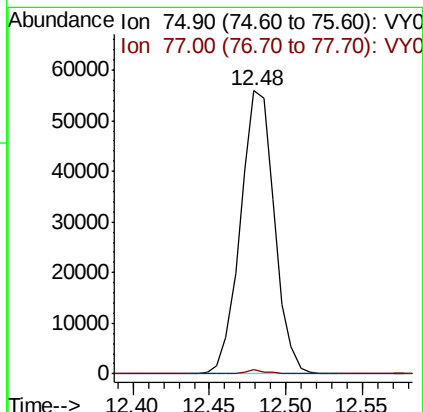
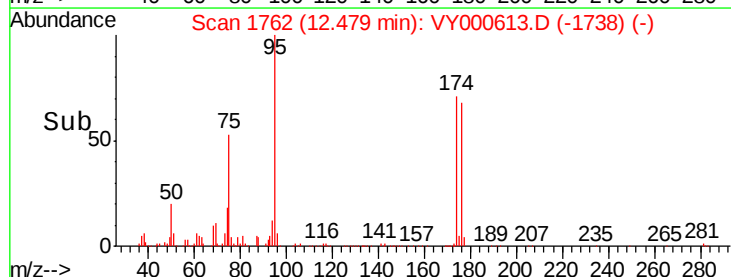
75 100

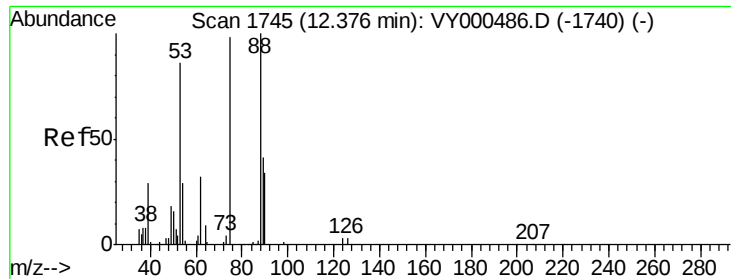
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 106.075 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000613.D

Acq: 08 Nov 2019 13:43

Instrument :

MSVOA\_Y

ClientSampleId :

1-B

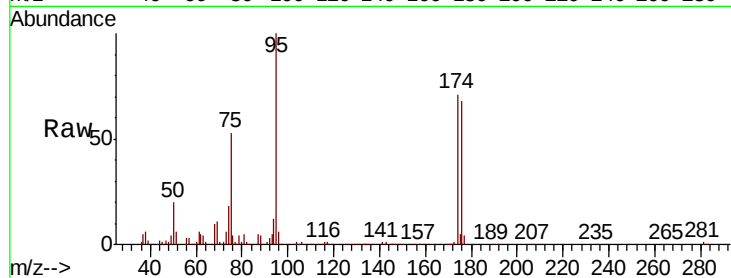
Tot Ion: 75 Resp: 85916

Ion Ratio Lower Upper

75 100

53 0.0 73.2 109.8#

89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

