

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY102319\  
 Data File : VY000392.D  
 Acq On : 23 Oct 2019 19:28  
 Operator : SY/MD  
 Sample : K5498-02  
 Misc : 8.59G/5ML/MSVOA Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

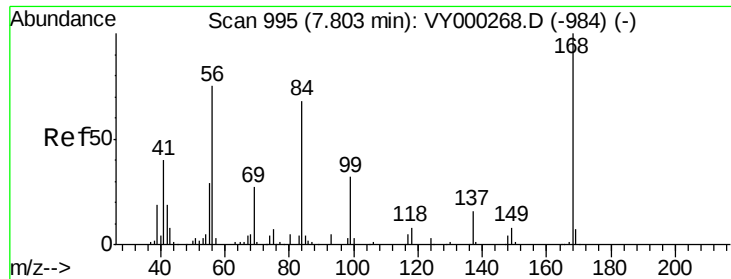
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 24 04:48:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 17 02:03:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.80  | 168  | 181960   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.70  | 114  | 299954   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.49 | 117  | 233111   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.42 | 152  | 84742    | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.16  | 65   | 94641    | 49.31     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.62% |          |
| 35) Dibromofluoromethane       | 7.73  | 113  | 84712    | 46.82     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 93.64% |          |
| 50) Toluene-d8                 | 10.19 | 98   | 335334   | 48.18     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 96.36% |          |
| 62) 4-Bromofluorobenzene       | 12.48 | 95   | 90498    | 34.22     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 68.44% |          |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane     | 1.91  | 85   | 18       | Below Cal | #      | 41       |
| 10) Methyl Iodide              | 4.11  | 142  | 96       | 1.221     | ug/l # | 41       |
| 16) Acetone                    | 3.96  | 43   | 891      | 1.433     | ug/l # | 60       |
| 20) Methylene Chloride         | 4.72  | 84   | 3169     | Below Cal | #      | 82       |
| 31) Cyclohexane                | 7.80  | 56   | 3901     | 1.062     | ug/l # | 20       |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 13109    | 4.464     | ug/l # | 51       |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 17479    | 6.147     | ug/l # | 19       |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 49984    | 47.968    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 49984    | 104.951   | ug/l # | 14       |

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



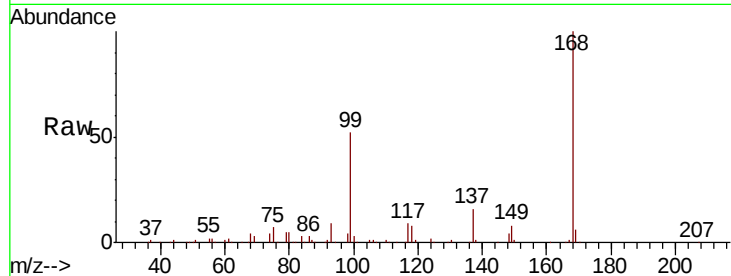


#1

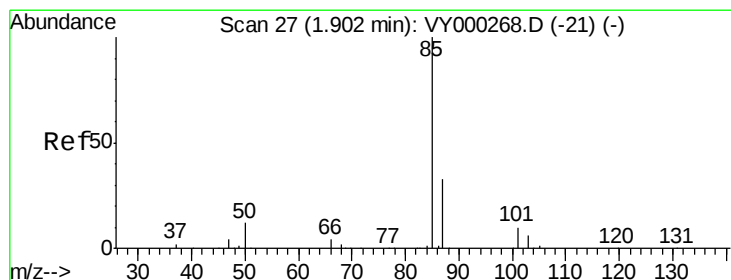
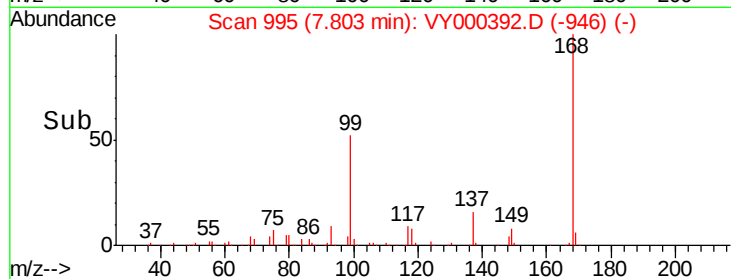
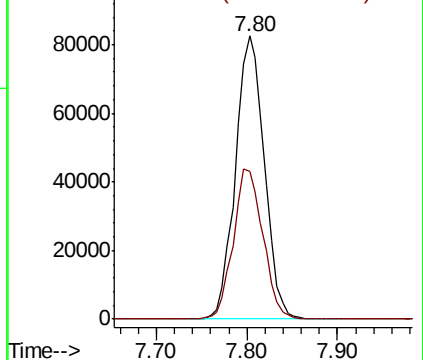
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.00 min  
 Lab File: VY000392.D  
 Acq: 23 Oct 2019 19:28

Instrument :  
 MSVOA\_Y  
 ClientSampled :

Tot Ion:168 Resp: 181960  
 Ion Ratio Lower Upper  
 168 100  
 99 52.3 46.6 69.8



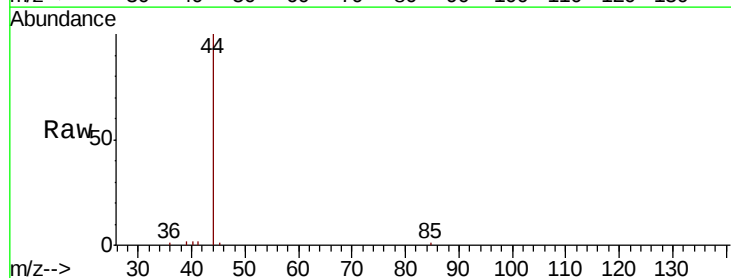
Abundance Ion 167.90 (167.60 to 168.60): VY000392.D (-946) (-)  
 Ion 98.90 (98.60 to 99.60): VY000392.D (-946) (-)



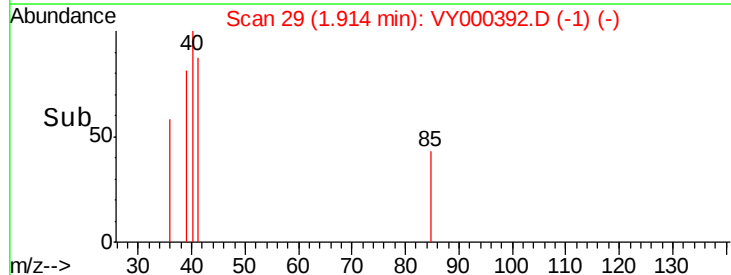
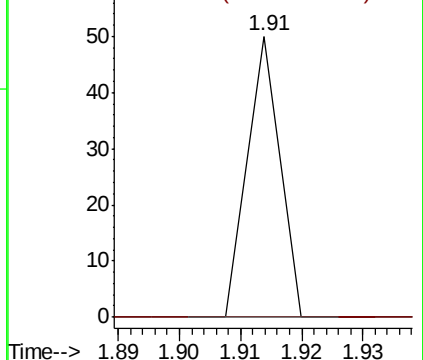
#2

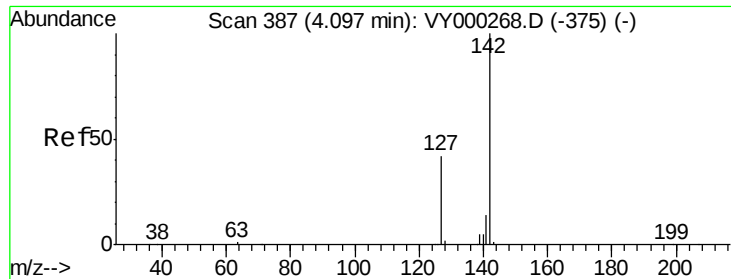
Dichlorodifluoromethane  
 Concen: Below Cal  
 RT: 1.91 min Scan# 29  
 Delta R.T. 0.01 min  
 Lab File: VY000392.D  
 Acq: 23 Oct 2019 19:28

Tgt Ion: 85 Resp: 18  
 Ion Ratio Lower Upper  
 85 100  
 87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000392.D (-1) (-)  
 Ion 86.90 (86.60 to 87.60): VY000392.D (-1) (-)

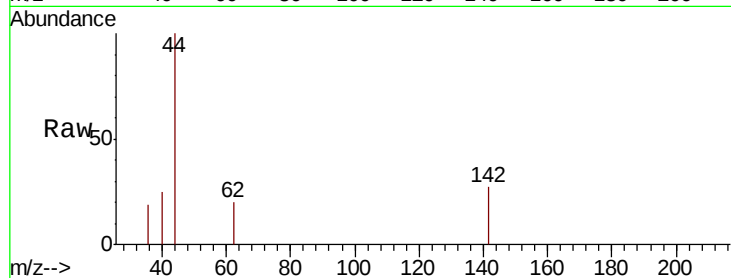




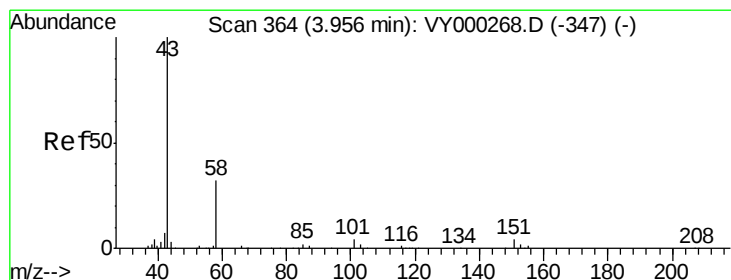
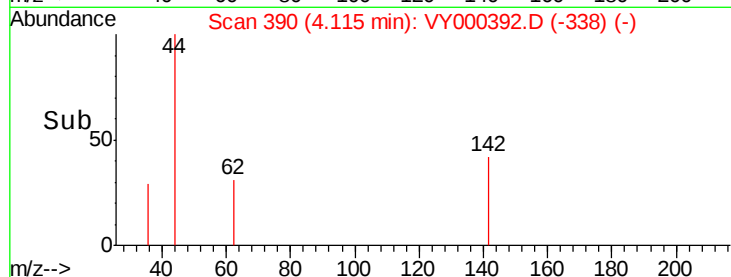
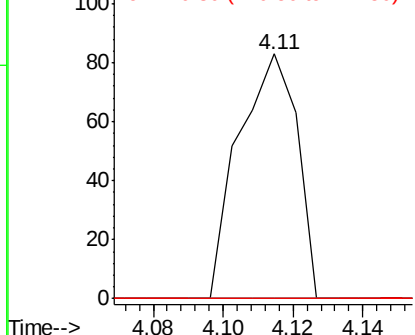
#10  
Methvl Iodide  
Concen: 1.221 ug/l  
RT: 4.11 min Scan# 390  
Delta R.T. 0.02 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:142 Resp: 96  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.9 50.9#  
141 0.0 11.2 16.8#

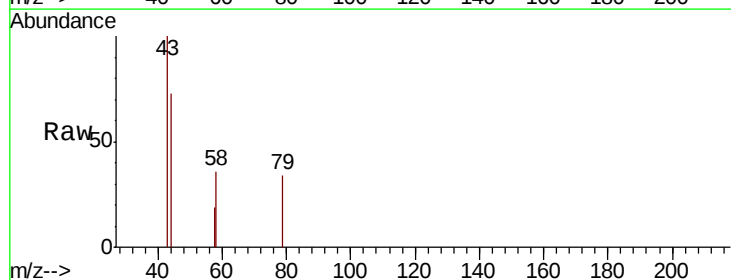


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

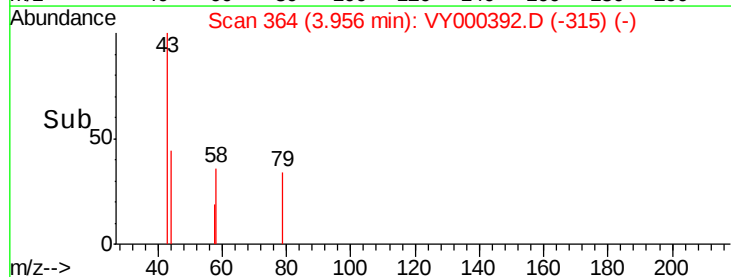
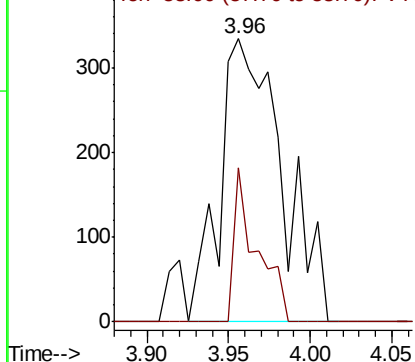


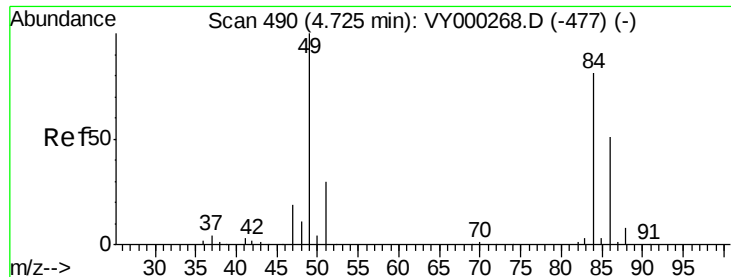
#16  
Acetone  
Concen: 1.433 ug/l  
RT: 3.96 min Scan# 364  
Delta R.T. -0.00 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Tgt Ion: 43 Resp: 891  
Ion Ratio Lower Upper  
43 100  
58 54.5 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 58.00 (57.70 to 58.70): VY0

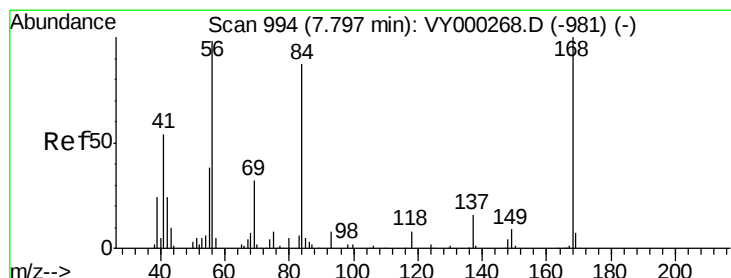
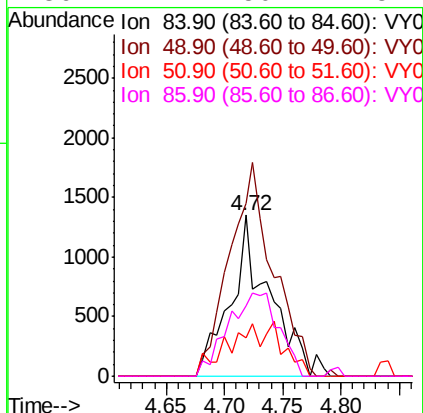
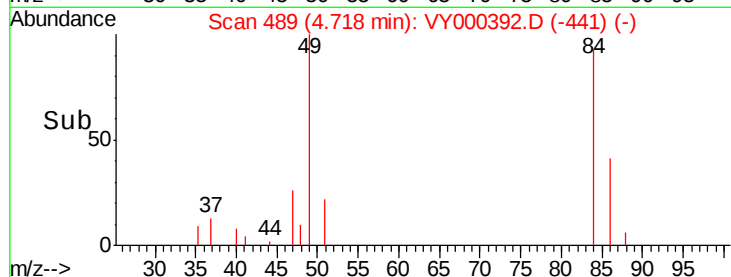
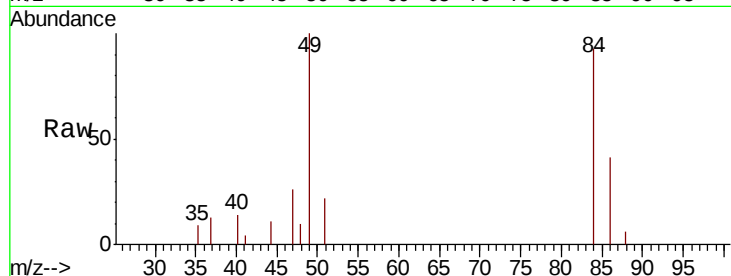




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.72 min Scan# 489  
Delta R.T. -0.01 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

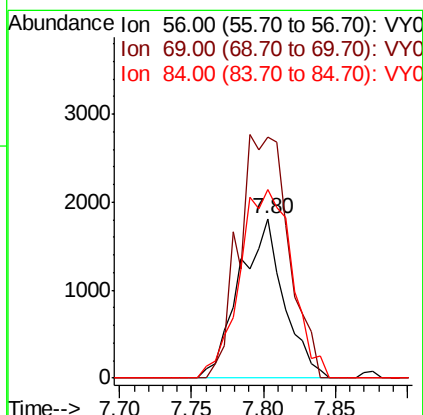
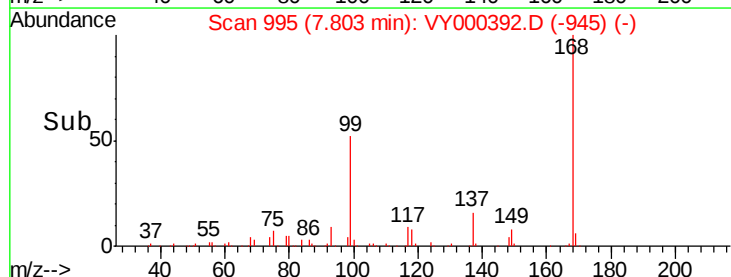
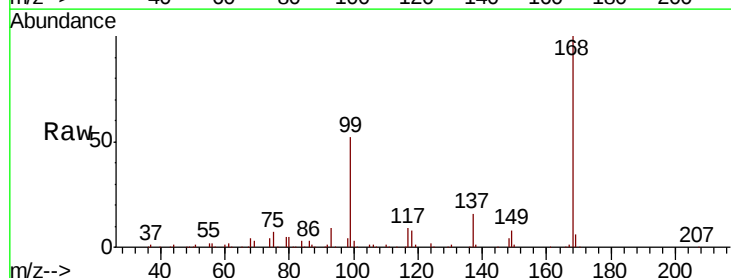
Instrument :  
MSVOA\_Y  
ClientSampled :

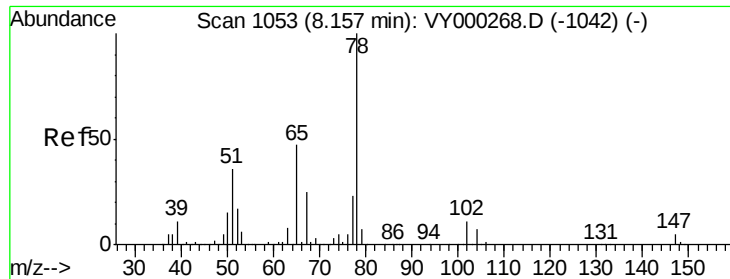
Tot Ion: 84 Resp: 3169  
Ion Ratio Lower Upper  
84 100  
49 107.8 99.0 148.4  
51 23.8 29.3 43.9#  
86 44.1 50.2 75.4#



#31  
Cyclohexane  
Concen: 1.062 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. 0.01 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Tgt Ion: 56 Resp: 3901  
Ion Ratio Lower Upper  
56 100  
69 151.3 26.3 39.5#  
84 118.6 70.8 106.2#

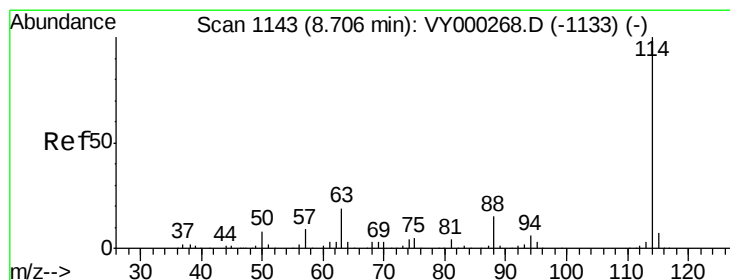
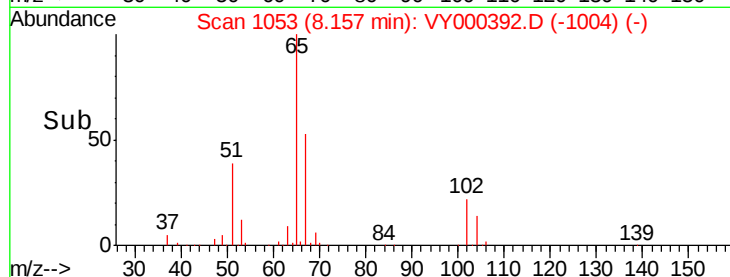
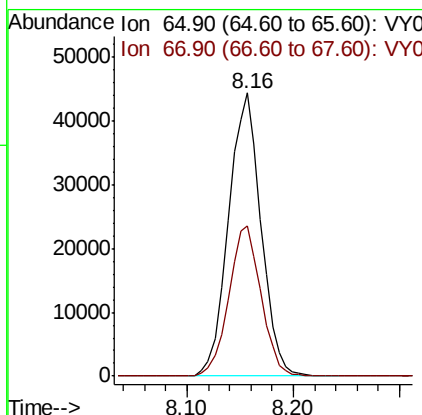
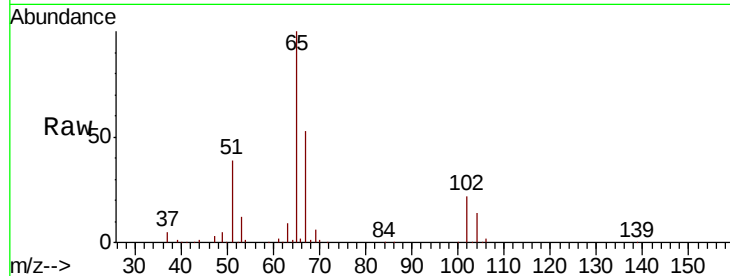




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.308 ug/l  
 RT: 8.16 min Scan# 1053  
 Delta R.T. -0.00 min  
 Lab File: VY000392.D  
 Acq: 23 Oct 2019 19:28

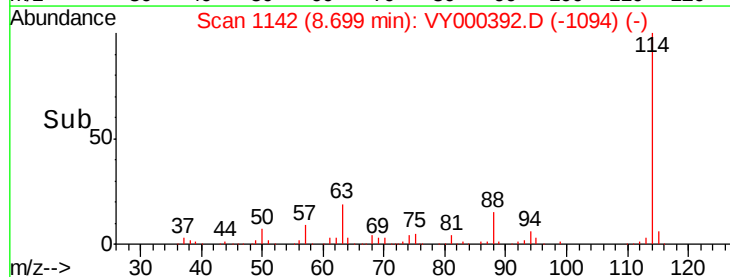
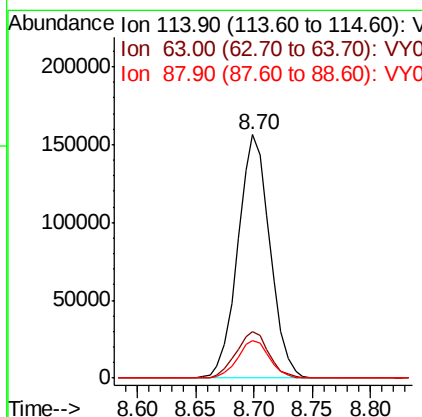
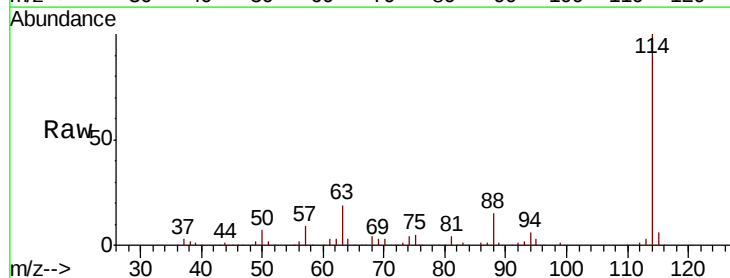
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

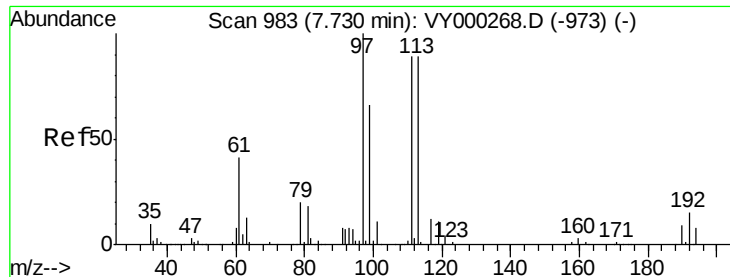
Tot Ion: 65 Resp: 94641  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 109.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.01 min  
 Lab File: VY000392.D  
 Acq: 23 Oct 2019 19:28

Tgt Ion: 114 Resp: 299954  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 37.2  
 88 15.3 0.0 30.2





#35

Dibromofluoromethane

Concen: 46.819 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000392.D

Acq: 23 Oct 2019 19:28

Instrument :  
MSVOA\_Y  
ClientSampled :

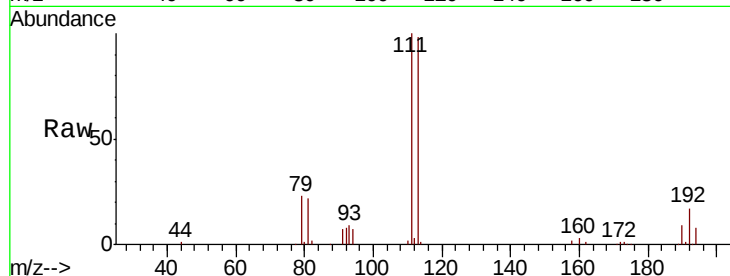
Tot Ion:113 Resp: 84712

Ion Ratio Lower Upper

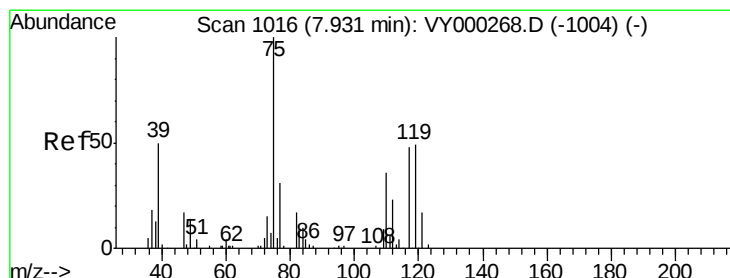
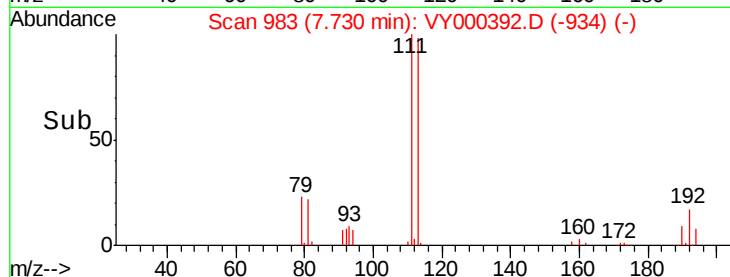
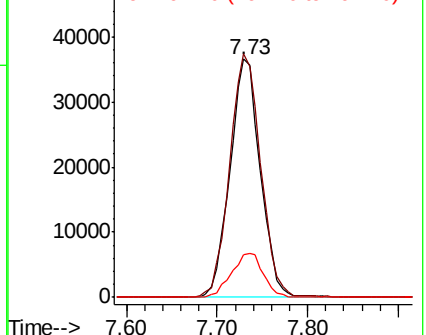
113 100

111 104.3 81.6 122.4

192 19.3 15.3 22.9



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: 4.464 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY000392.D

Acq: 23 Oct 2019 19:28

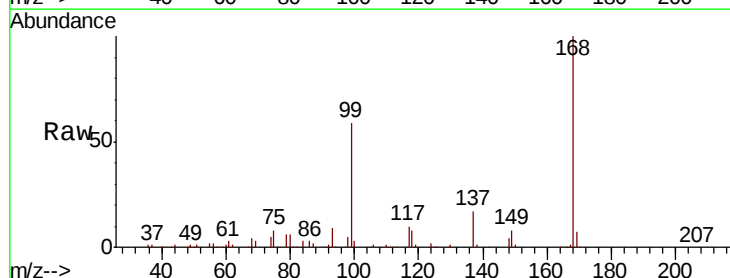
Tgt Ion: 75 Resp: 13109

Ion Ratio Lower Upper

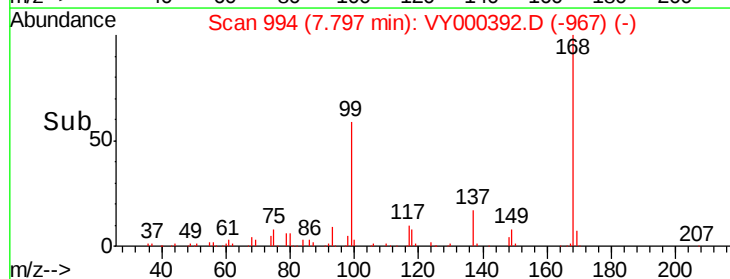
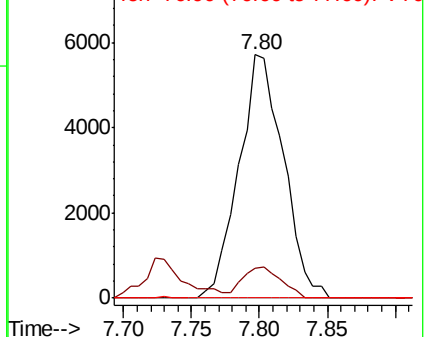
75 100

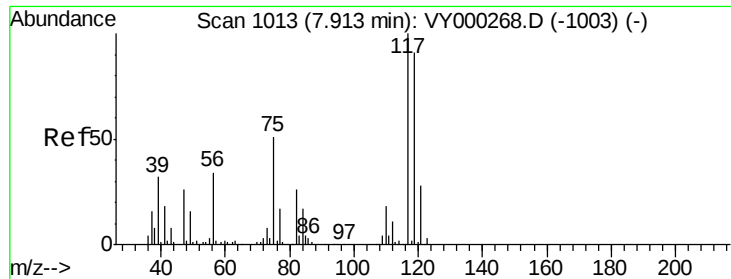
110 11.2 18.4 55.4#

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

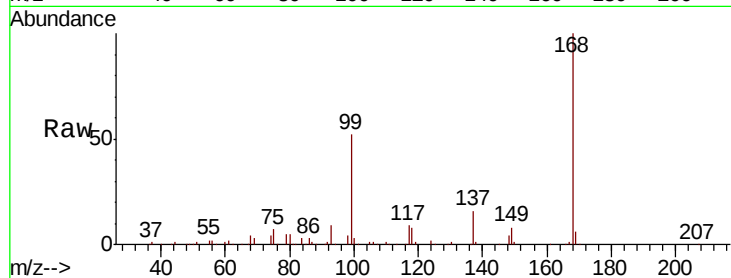




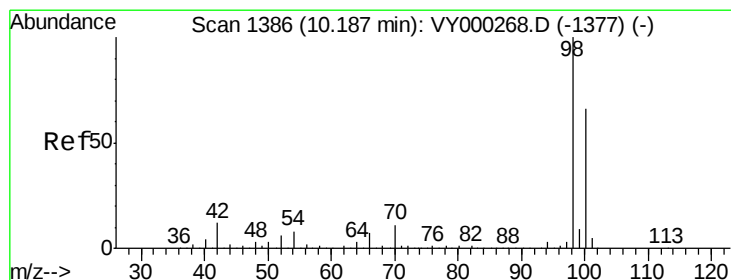
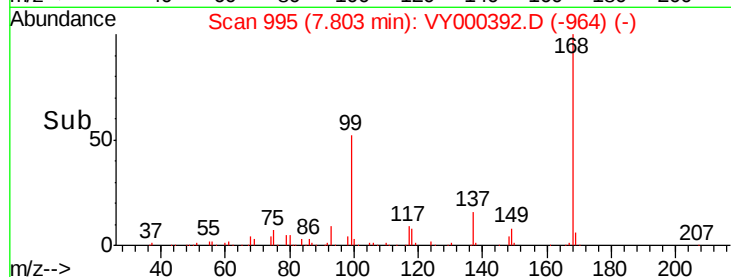
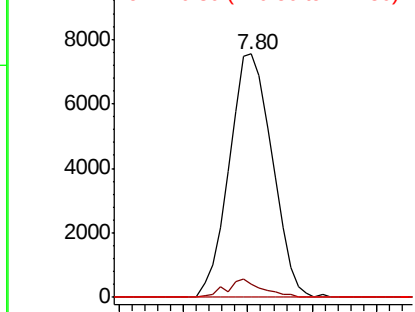
#38  
Carbon Tetrachloride  
Concen: 6.147 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. -0.11 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:117 Resp: 17479  
Ion Ratio Lower Upper  
117 100  
119 5.6 72.8 109.2#  
121 0.0 22.2 33.2#

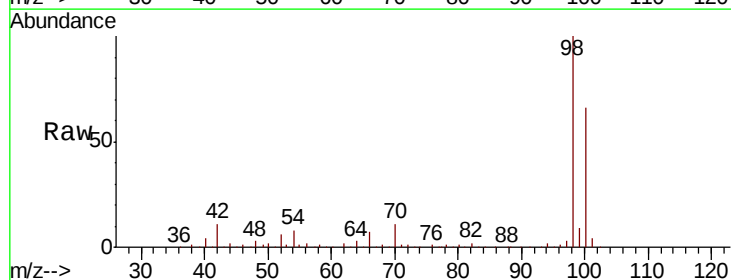


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

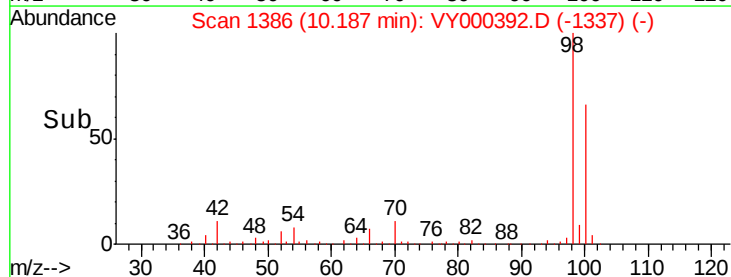
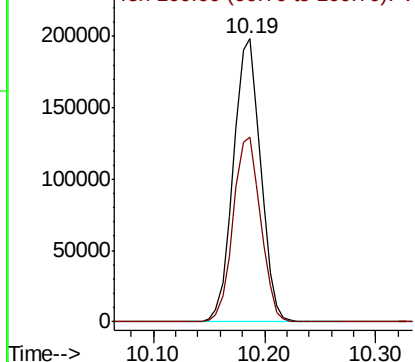


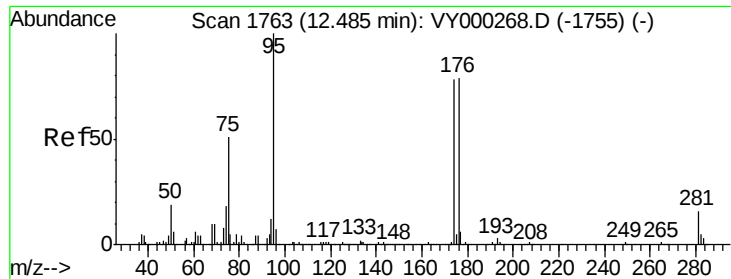
#50  
Toluene-d8  
Concen: 48.179 ug/l  
RT: 10.19 min Scan# 1386  
Delta R.T. -0.00 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Tgt Ion: 98 Resp: 335334  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY0

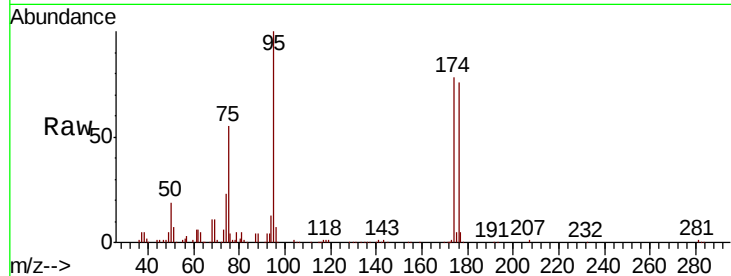




#62  
4-Bromofluorobenzene  
Concen: 34.225 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.01 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion   | 95  | Resp | 90498 |
|-----------|-----|------|-------|
| Ion Ratio | 100 |      |       |
| Lower     |     | 0.0  | 159.6 |
| Upper     |     | 0.0  | 153.8 |

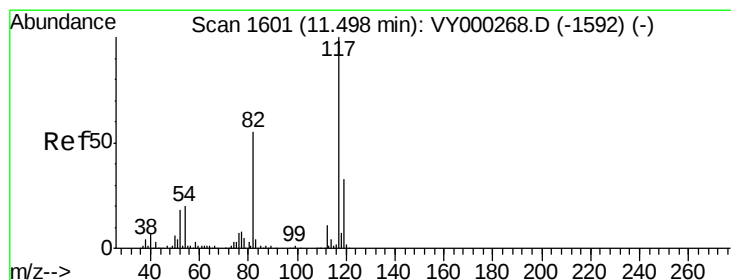
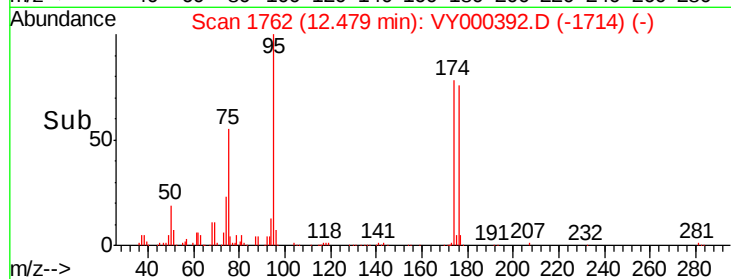
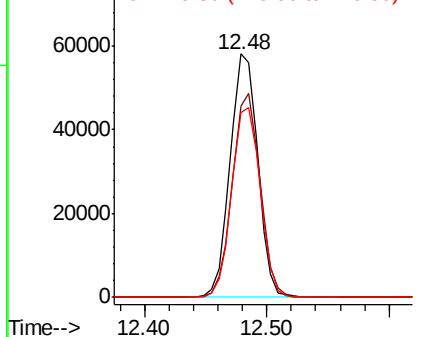


Abundance

Ion 94.90 (94.60 to 95.60): VY000268.D (-1755) (-)

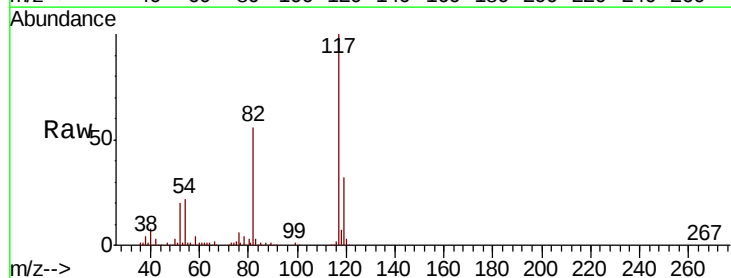
Ion 173.80 (173.50 to 174.50): VY000268.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY000268.D (-1755) (-)



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

| Tgt Ion                                    | 117 | Resp | 233111 |
|--------------------------------------------|-----|------|--------|
| Ion Ratio <td>100</td> <td></td> <td></td> | 100 |      |        |
| Lower                                      |     | 43.7 | 65.5   |
| Upper                                      |     | 26.6 | 39.8   |

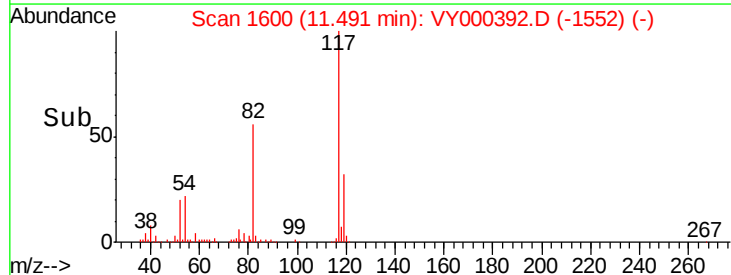
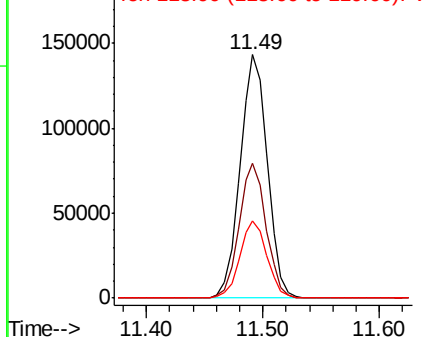


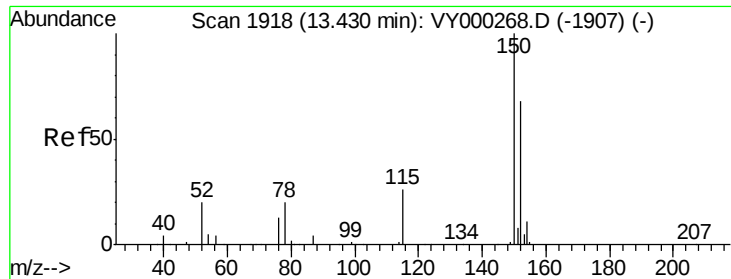
Abundance

Ion 116.90 (116.60 to 117.60): VY000268.D (-1592) (-)

Ion 82.00 (81.70 to 82.70): VY000268.D (-1592) (-)

Ion 118.90 (118.60 to 119.60): VY000268.D (-1592) (-)



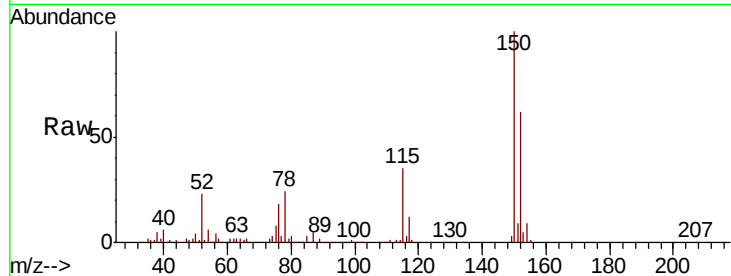


#72

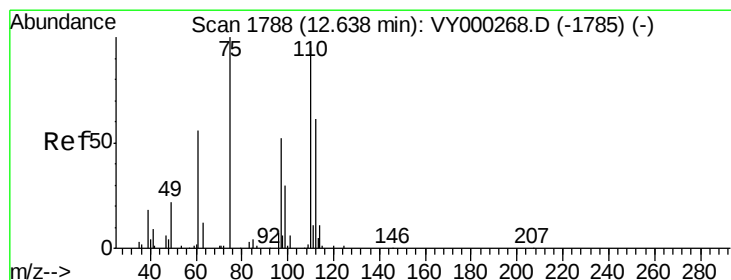
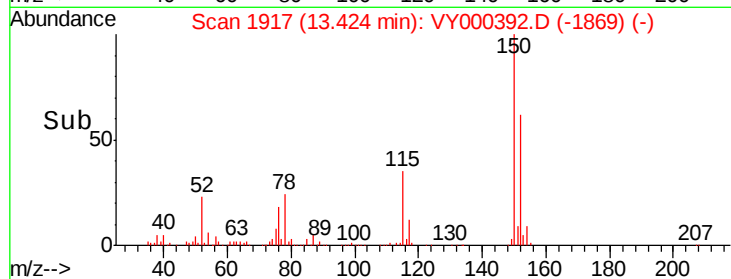
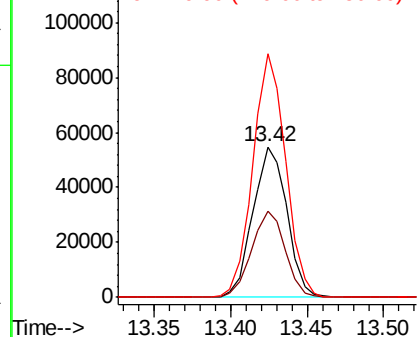
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.01 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:152 Resp: 84742  
Ion Ratio Lower Upper  
152 100  
115 56.5 29.3 88.0  
150 155.4 0.0 348.4



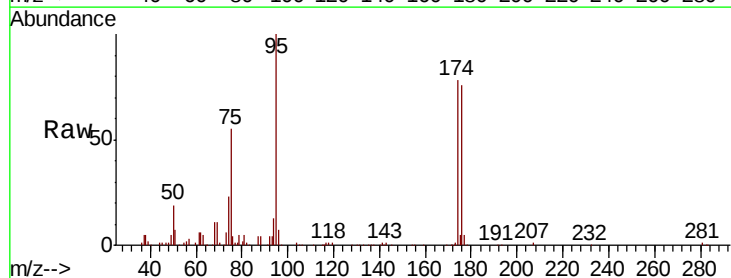
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



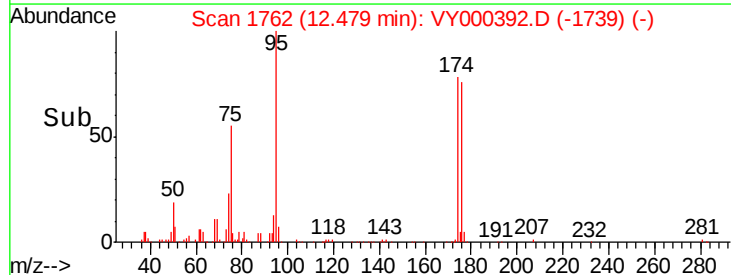
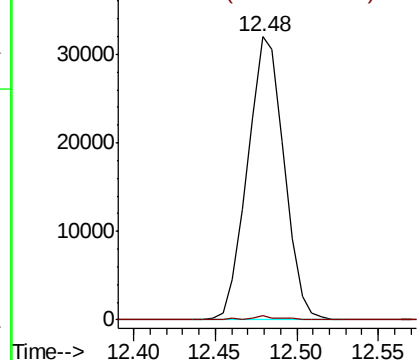
#76

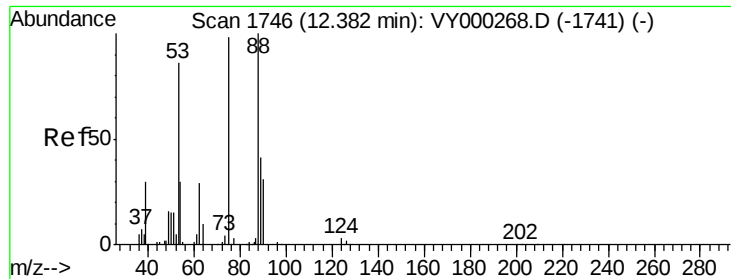
1,2,3-Trichloropropane  
Concen: 47.968 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.16 min  
Lab File: VY000392.D  
Acq: 23 Oct 2019 19:28

Tgt Ion: 75 Resp: 49984  
Ion Ratio Lower Upper  
75 100  
77 1.3 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: 104.951 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000392.D

Acq: 23 Oct 2019 19:28

Instrument :

MSVOA\_Y

ClientSampleId :

Tot Ion: 75 Resp: 49984

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.0 35.1 52.7#

