

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY091919\  
 Data File : VY000074.D  
 Acq On : 19 Sep 2019 14:02  
 Operator : SY/MD  
 Sample : K4878-01  
 Misc : 5.86g/5.00ml/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CSA-2-4-2

Quant Time: Sep 20 01:54:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 05:38:39 2019  
 Response via : Initial Calibration

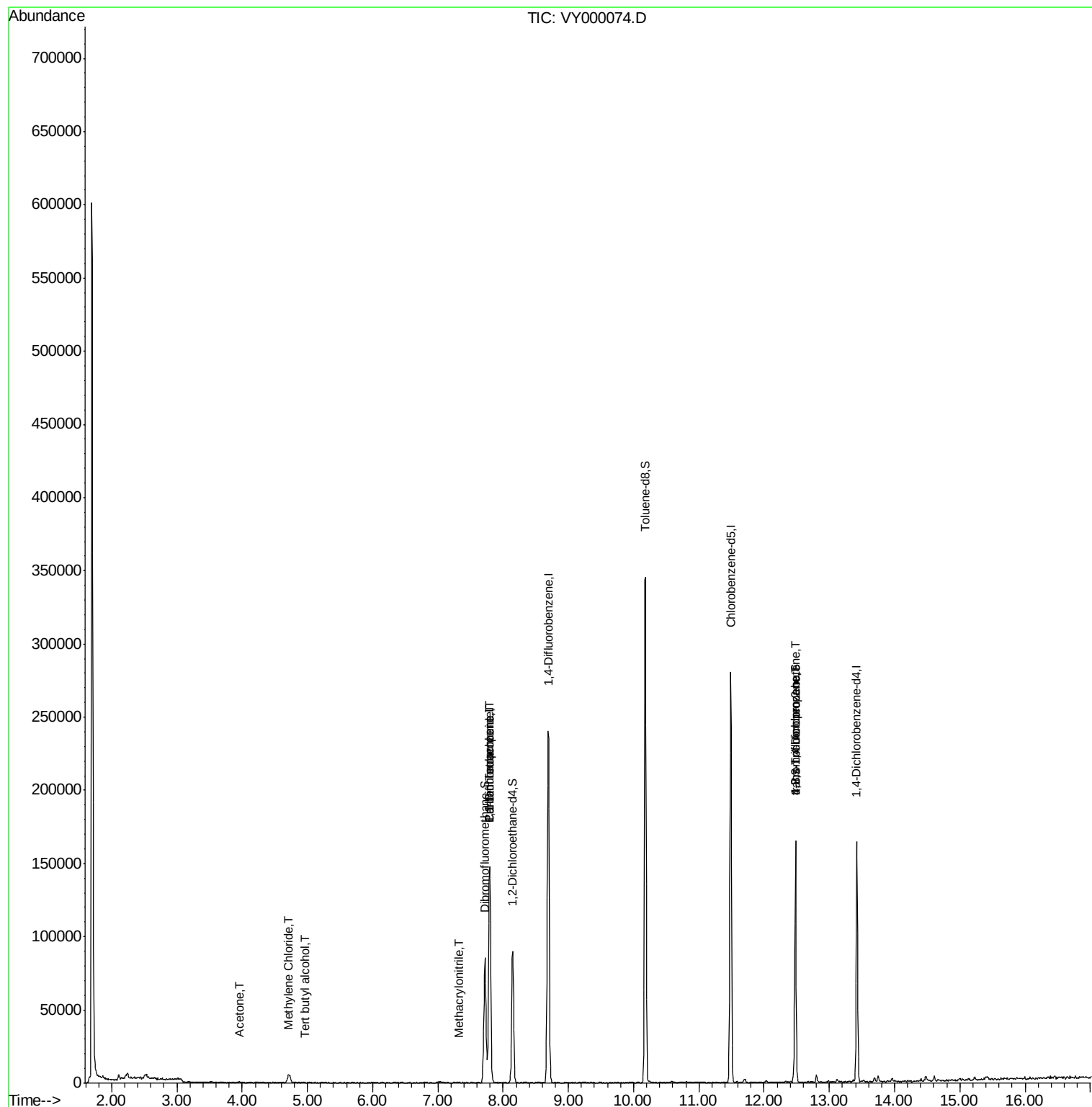
| Internal Standards             | R.T.  | QIon | Response | Conc        | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-------------|---------|----------|
| 1) Pentafluorobenzene          | 7.79  | 168  | 110732   | 50.00       | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.69  | 114  | 214903   | 50.00       | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.49 | 117  | 146140   | 50.00       | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.42 | 152  | 39815    | 50.00       | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |             |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.15  | 65   | 64053    | 50.28       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 100.56% |          |
| 35) Dibromofluoromethane       | 7.72  | 113  | 60097    | 46.19       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 92.38%  |          |
| 50) Toluene-d8                 | 10.18 | 98   | 229111   | 44.83       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 89.66%  |          |
| 62) 4-Bromofluorobenzene       | 12.48 | 95   | 56079    | 29.55       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 59.10%  |          |
| Target Compounds               |       |      |          |             |         |          |
|                                |       |      |          |             | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.79  | 85   | 48       | Below Cal   | #       | 42       |
| 3) Chloromethane               | 2.11  | 50   | 2422     | Below Cal   |         | 97       |
| 5) Bromomethane                | 2.64  | 94   | 60       | Below Cal   |         | 95       |
| 11) Tert butyl alcohol         | 4.96  | 59   | 285      | 1.887 ug/l  | #       | 73       |
| 13) Acrolein                   | 3.70  | 56   | 50       | Below Cal   | #       | 13       |
| 16) Acetone                    | 3.96  | 43   | 871      | 2.936 ug/l  | #       | 33       |
| 17) Carbon Disulfide           | 4.18  | 76   | 28       | Below Cal   | #       | 77       |
| 20) Methylene Chloride         | 4.71  | 84   | 1963     | 1.407 ug/l  | #       | 77       |
| 31) Cyclohexane                | 7.79  | 56   | 2706     | Below Cal   | #       | 1        |
| 36) 1,1-Dichloropropene        | 7.79  | 75   | 9677     | 6.022 ug/l  | #       | 46       |
| 38) Carbon Tetrachloride       | 7.79  | 117  | 11906    | 7.850 ug/l  | #       | 19       |
| 41) Methacrylonitrile          | 7.32  | 41   | 191      | 4.518 ug/l  | #       | 1        |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 28689    | 51.213 ug/l | #       | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 28689    | 98.495 ug/l | #       | 19       |

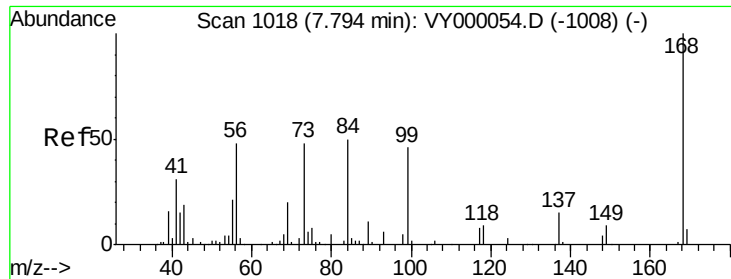
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
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CSA-2-4-2

Quant Time: Sep 20 01:54:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091719S.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 19 05:38:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000074.D

Acq: 19 Sep 2019 14:02

Instrument :

MSVOA\_Y

ClientSampleId :

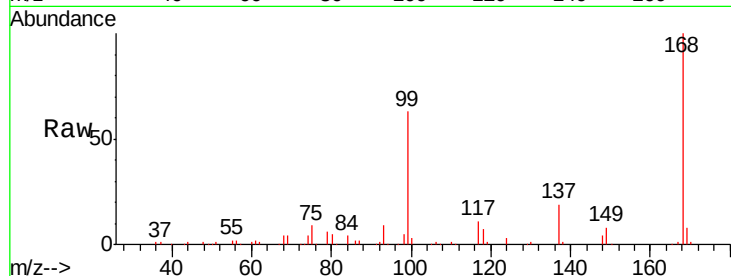
CSA-2-4-2

Tgt Ion:168 Resp: 110732

Ion Ratio Lower Upper

168 100

99 63.3 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)

Ion 98.90 (98.60 to 99.60): VY000054.D (-1008) (-)

7.79

50000

40000

30000

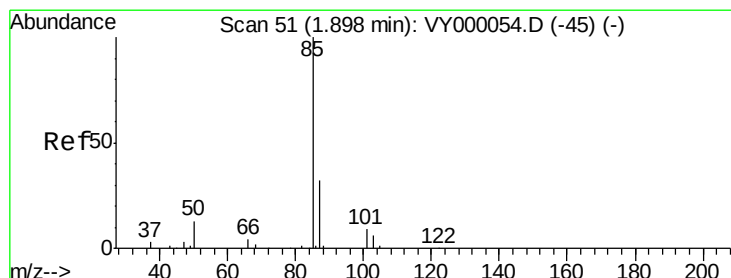
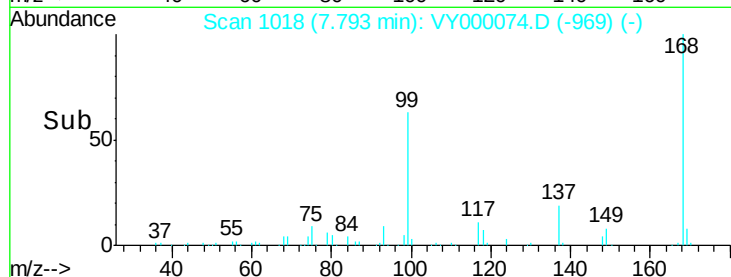
20000

10000

0

7.70 7.75 7.80 7.85 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.79 min Scan# 33

Delta R.T. -0.11 min

Lab File: VY000074.D

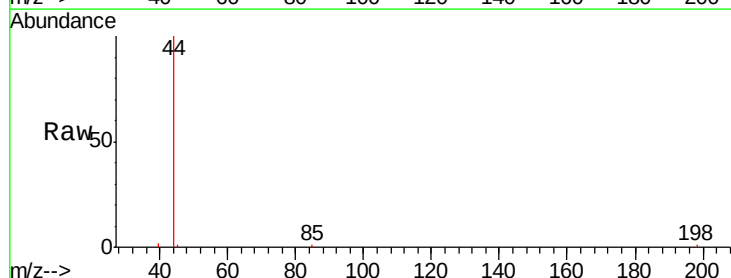
Acq: 19 Sep 2019 14:02

Tgt Ion: 85 Resp: 48

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VY000054.D (-45) (-)

Ion 86.90 (86.60 to 87.60): VY000054.D (-45) (-)

1.79

80

60

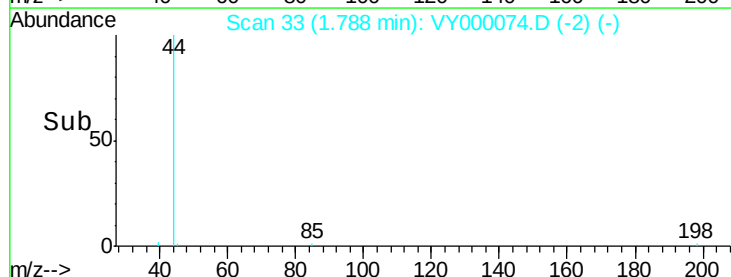
40

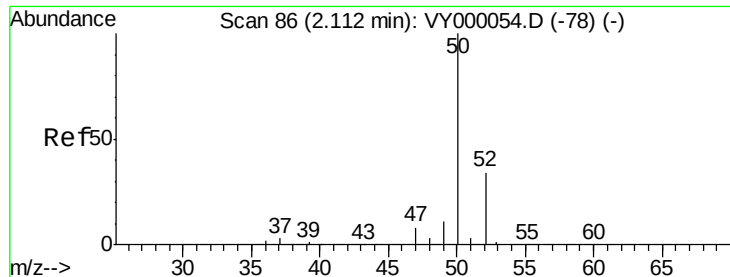
20

0

1.78 1.80

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY000074.D

Acq: 19 Sep 2019 14:02

Instrument :

MSVOA\_Y

ClientSampleId :

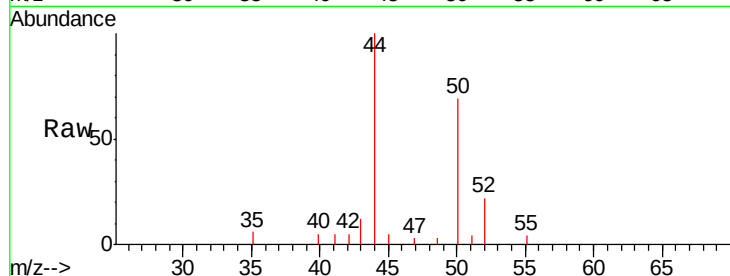
CSA-2-4-2

Tgt Ion: 50 Resp: 2422

Ion Ratio Lower Upper

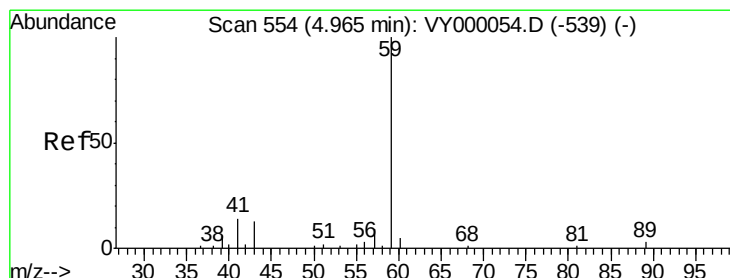
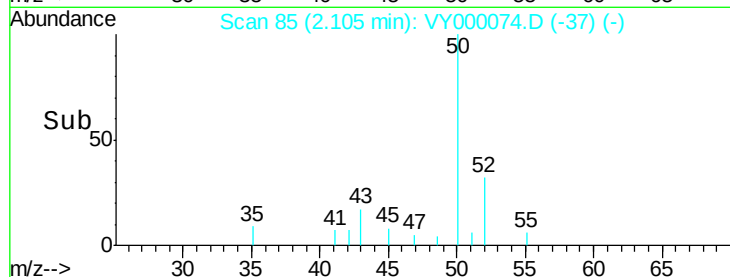
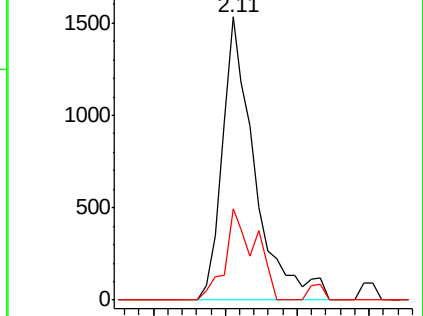
50 100

52 32.4 27.3 40.9



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#11

Tert butyl alcohol

Concen: 1.887 ug/l

RT: 4.96 min Scan# 554

Delta R.T. 0.00 min

Lab File: VY000074.D

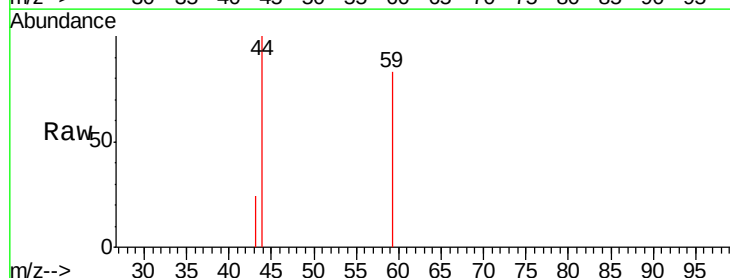
Acq: 19 Sep 2019 14:02

Tgt Ion: 59 Resp: 285

Ion Ratio Lower Upper

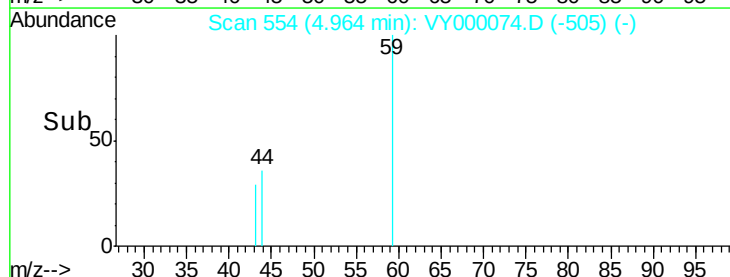
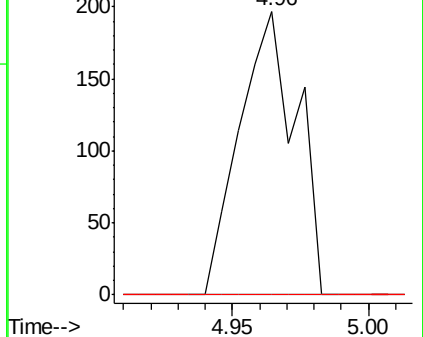
59 100

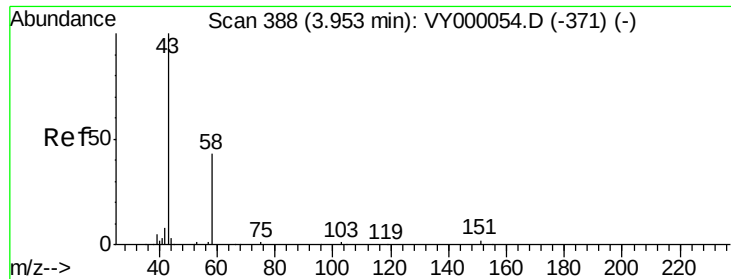
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 2.936 ug/l

RT: 3.96 min Scan# 390

Delta R.T. 0.01 min

Lab File: VY000074.D

Acq: 19 Sep 2019 14:02

Instrument :

MSVOA\_Y

ClientSampleId :

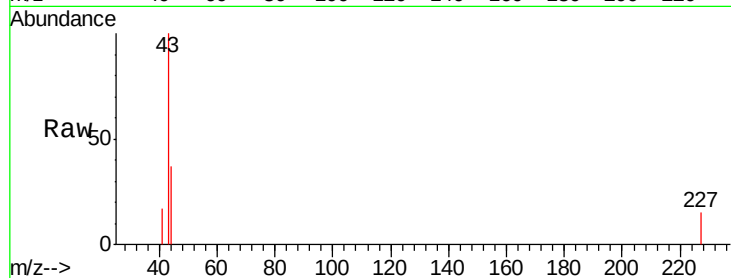
CSA-2-4-2

Tgt Ion: 43 Resp: 871

Ion Ratio Lower Upper

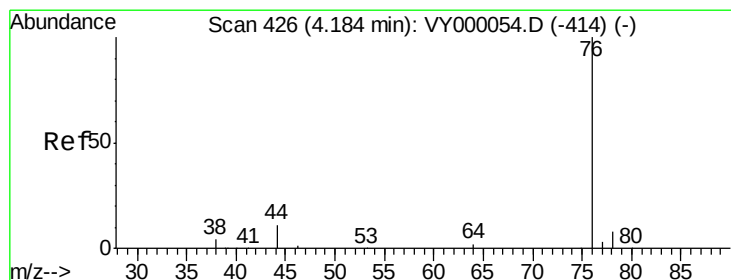
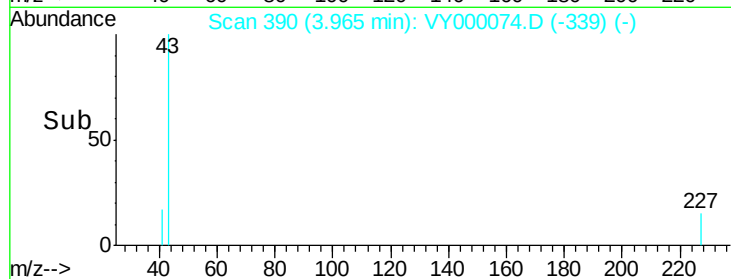
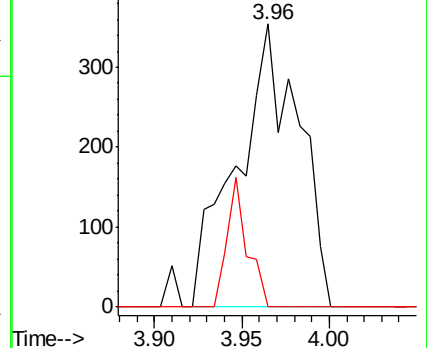
43 100

58 0.0 34.5 51.7#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.18 min Scan# 425

Delta R.T. -0.01 min

Lab File: VY000074.D

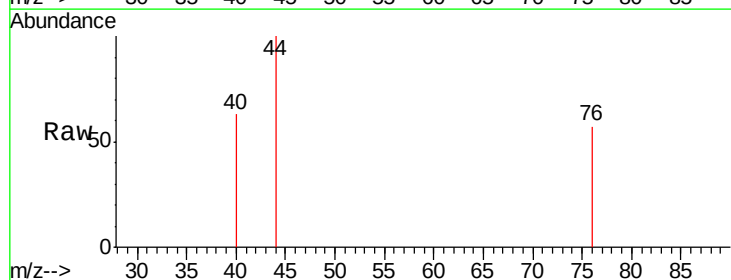
Acq: 19 Sep 2019 14:02

Tgt Ion: 76 Resp: 28

Ion Ratio Lower Upper

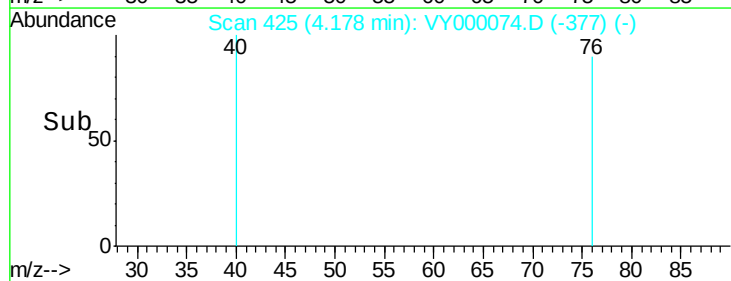
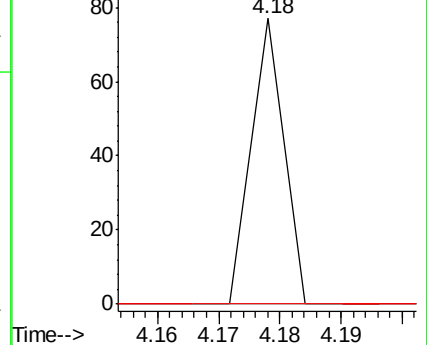
76 100

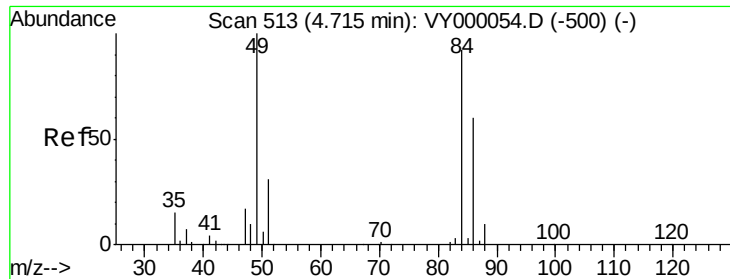
78 0.0 6.6 9.8#



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

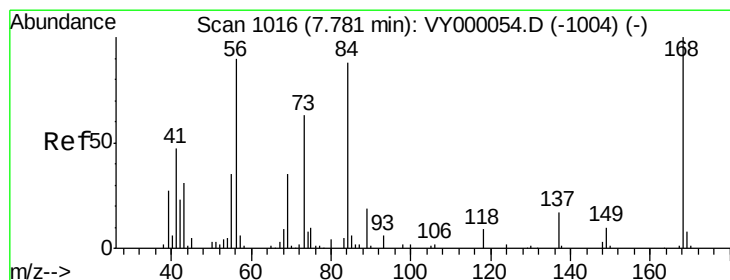
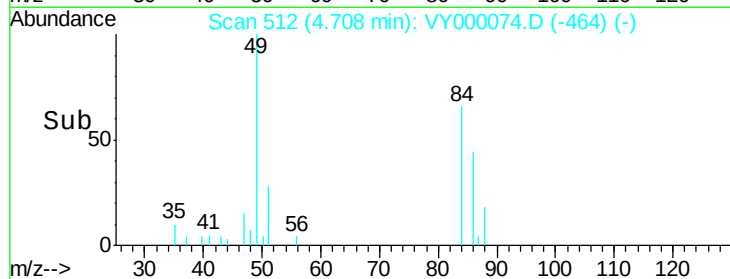
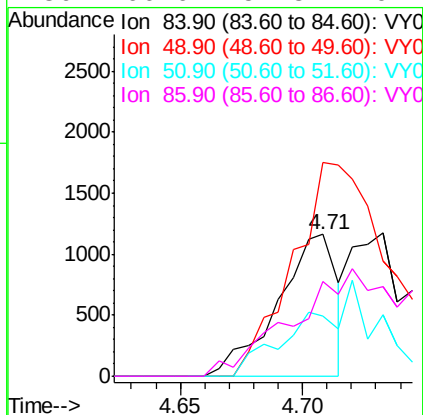
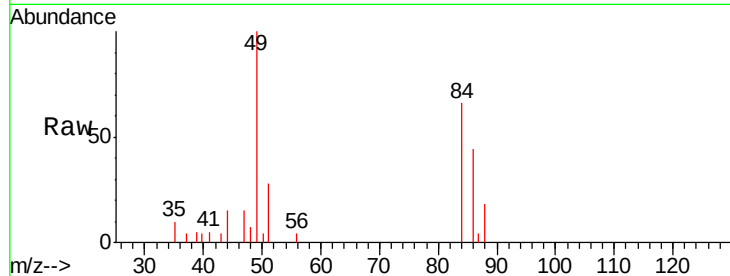




#20  
Methylene Chloride  
Concen: 1.407 ug/l  
RT: 4.71 min Scan# 512  
Delta R.T. -0.01 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

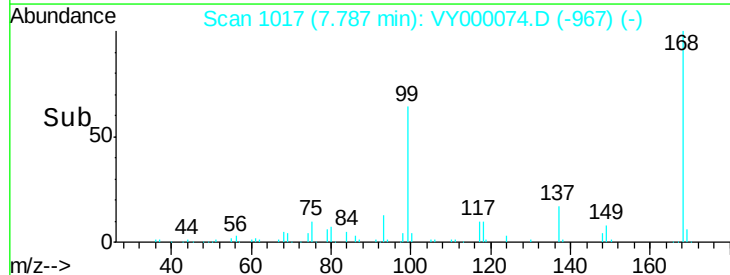
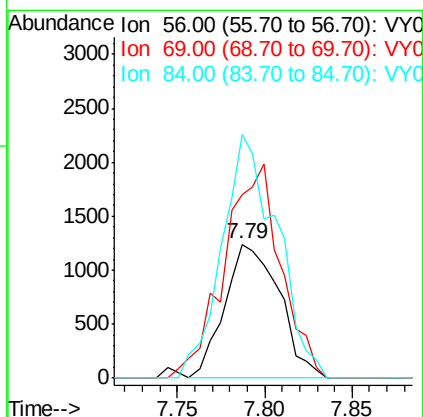
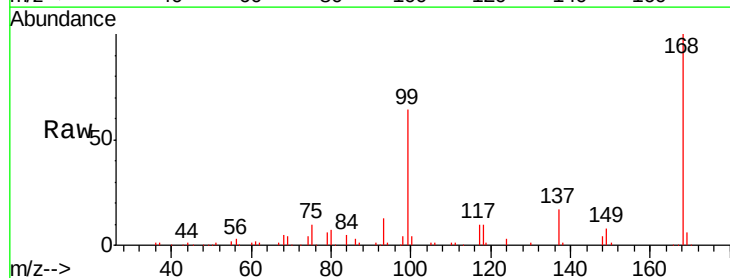
Instrument :  
MSVOA\_Y  
ClientSampled :  
CSA-2-4-2

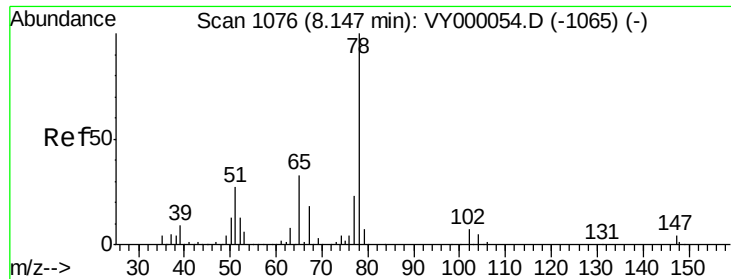
Tgt Ion: 84 Resp: 1963  
Ion Ratio Lower Upper  
84 100  
49 150.5 87.4 131.0#  
51 42.0 27.2 40.8#  
86 66.6 52.8 79.2



#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.79 min Scan# 1017  
Delta R.T. 0.01 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

Tgt Ion: 56 Resp: 2706  
Ion Ratio Lower Upper  
56 100  
69 136.7 30.9 46.3#  
84 181.8 78.5 117.7#

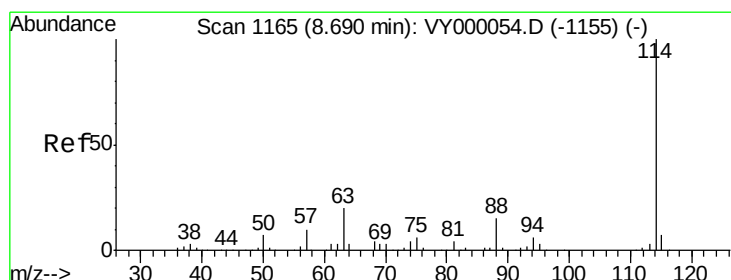
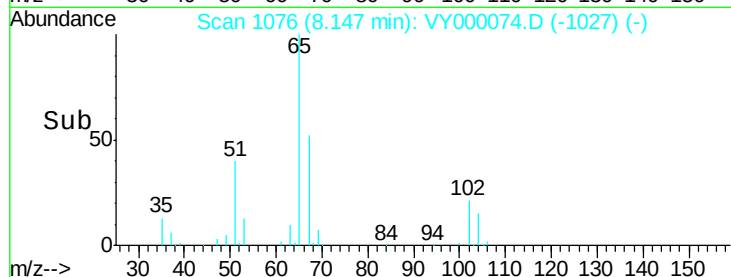
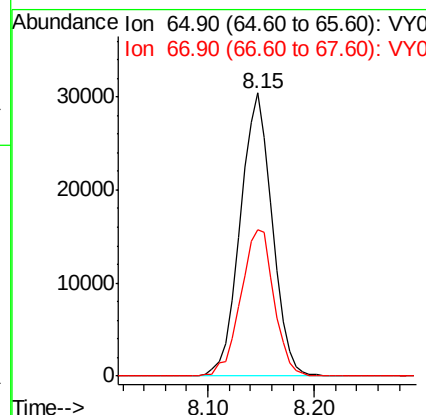
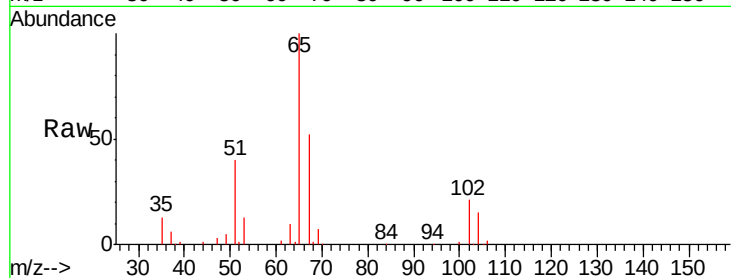




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.278 ug/l  
 RT: 8.15 min Scan# 1076  
 Delta R.T. -0.00 min  
 Lab File: VY000074.D  
 Acq: 19 Sep 2019 14:02

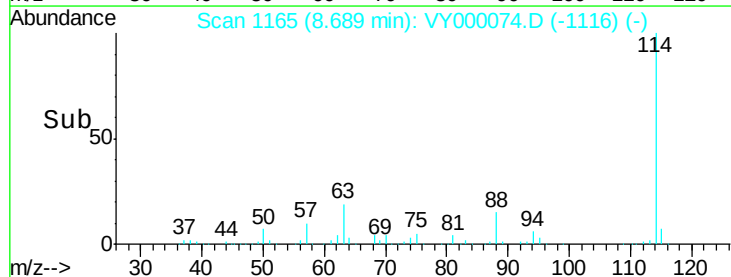
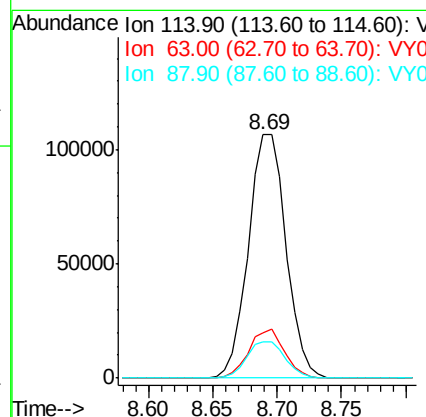
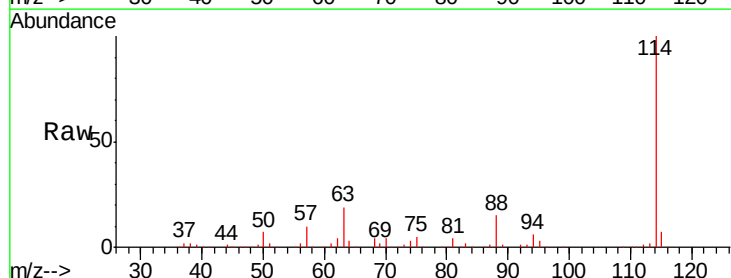
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CSA-2-4-2

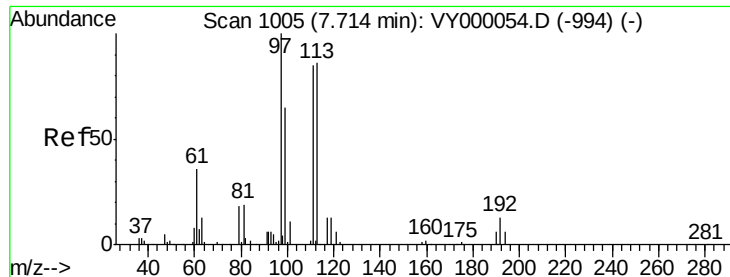
Tgt Ion: 65 Resp: 64053  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 0.0 111.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1165  
 Delta R.T. -0.00 min  
 Lab File: VY000074.D  
 Acq: 19 Sep 2019 14:02

Tgt Ion: 114 Resp: 214903  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 39.4  
 88 14.7 0.0 30.2

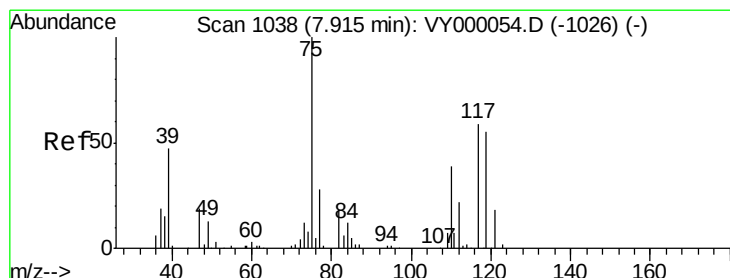
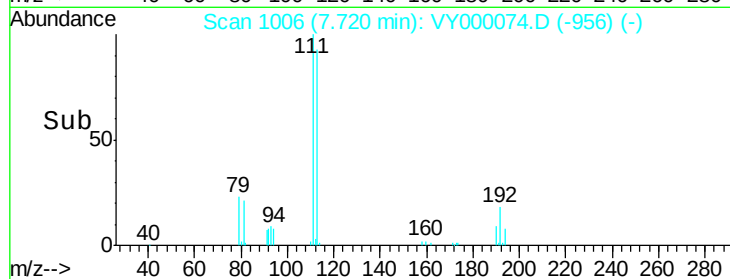
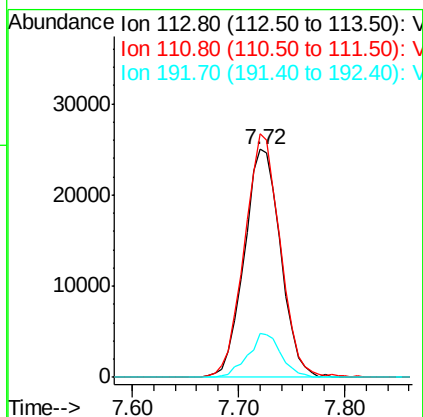
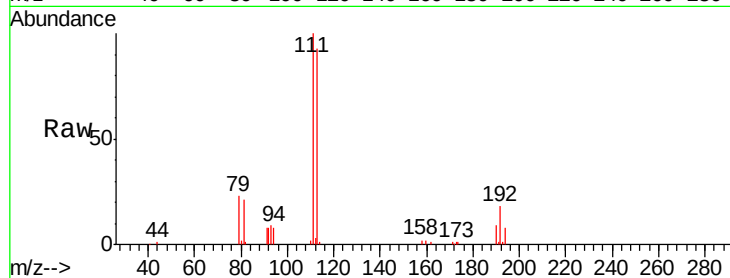




#35  
 Dibromofluoromethane  
 Concen: 46.186 ug/l  
 RT: 7.72 min Scan# 1006  
 Delta R.T. 0.01 min  
 Lab File: VY000074.D  
 Acq: 19 Sep 2019 14:02

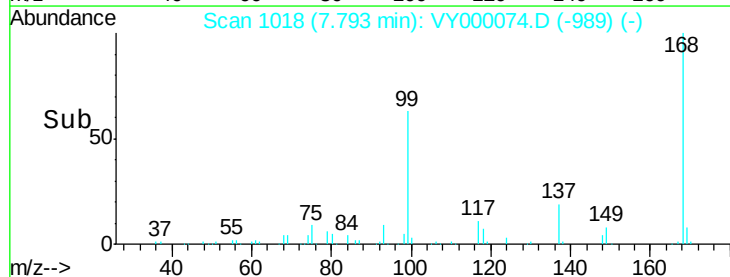
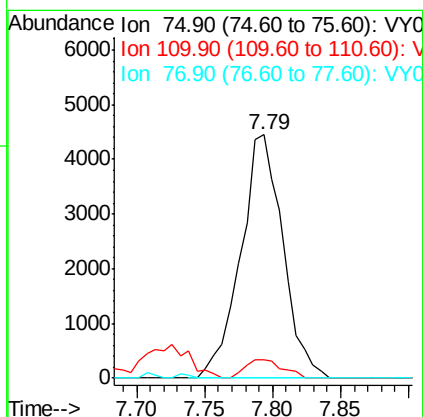
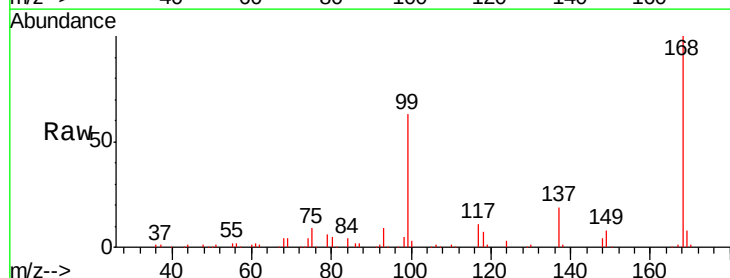
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CSA-2-4-2

Tgt Ion:113 Resp: 60097  
 Ion Ratio Lower Upper  
 113 100  
 111 105.0 81.7 122.5  
 192 17.5 13.4 20.2

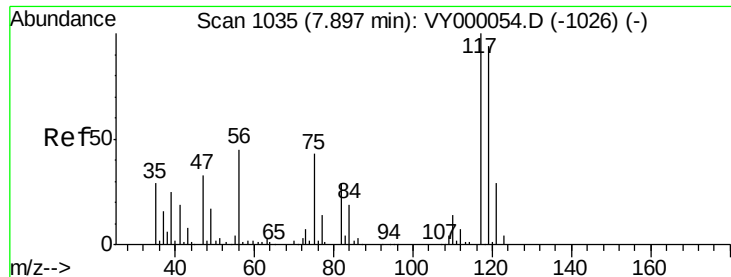


#36  
 1,1-Dichloropropene  
 Concen: 6.022 ug/l  
 RT: 7.79 min Scan# 1018  
 Delta R.T. -0.12 min  
 Lab File: VY000074.D  
 Acq: 19 Sep 2019 14:02

Tgt Ion: 75 Resp: 9677  
 Ion Ratio Lower Upper  
 75 100  
 110 6.8 19.6 58.7#  
 77 0.0 24.3 36.5#



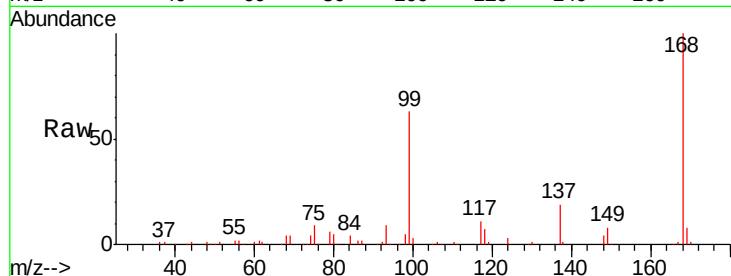




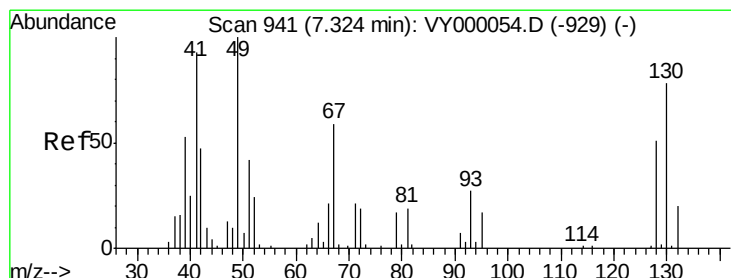
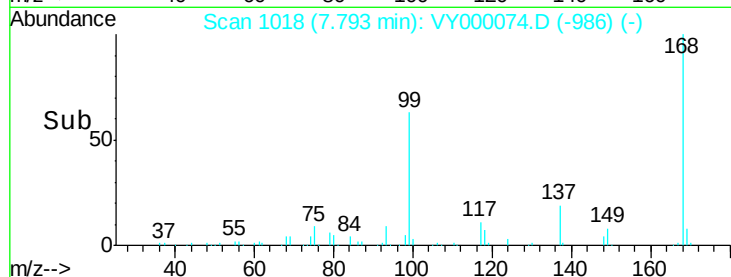
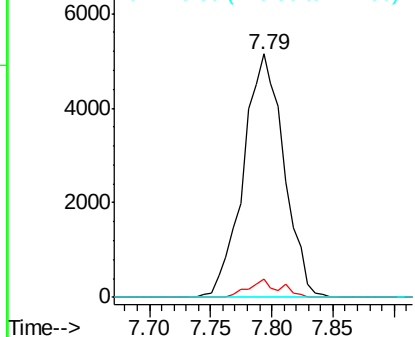
#38  
Carbon Tetrachloride  
Concen: 7.850 ug/l  
RT: 7.79 min Scan# 1018  
Delta R.T. -0.10 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CSA-2-4-2

Tgt Ion: 117 Resp: 11906  
Ion Ratio Lower Upper  
117 100  
119 7.4 75.0 112.6#  
121 0.0 22.8 34.2#

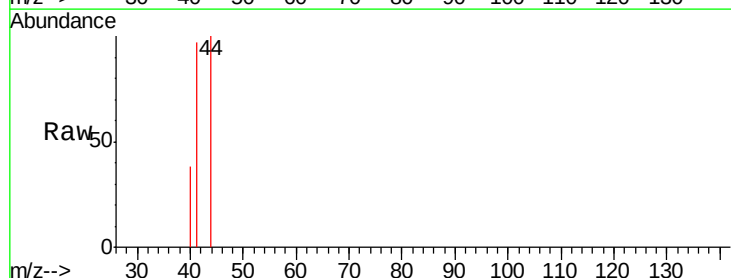


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

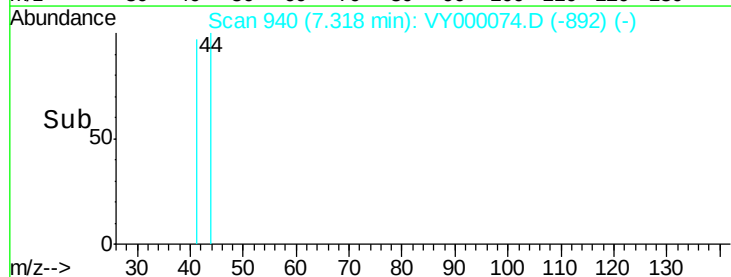
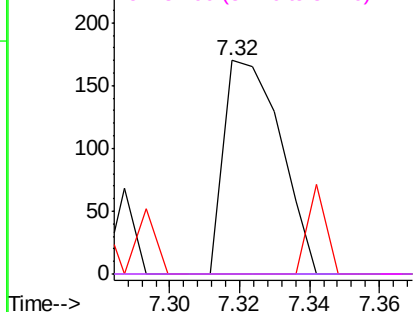


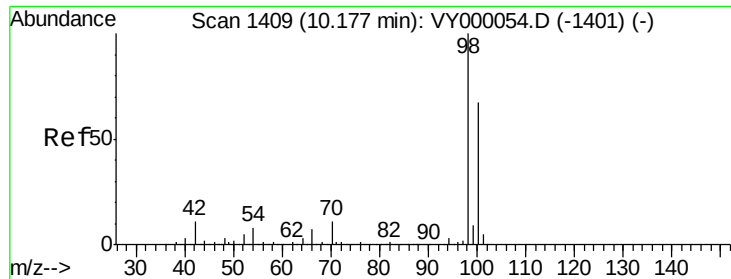
#41  
Methacrylonitrile  
Concen: 4.518 ug/l  
RT: 7.32 min Scan# 940  
Delta R.T. -0.01 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

Tgt Ion: 41 Resp: 191  
Ion Ratio Lower Upper  
41 100  
39 0.0 91.8 137.6#  
67 0.0 0.0 0.0  
52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0  
Ion 67.00 (66.70 to 67.70): VY0  
Ion 52.00 (51.70 to 52.70): VY0

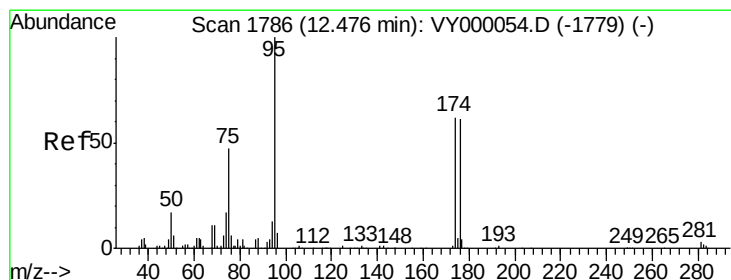
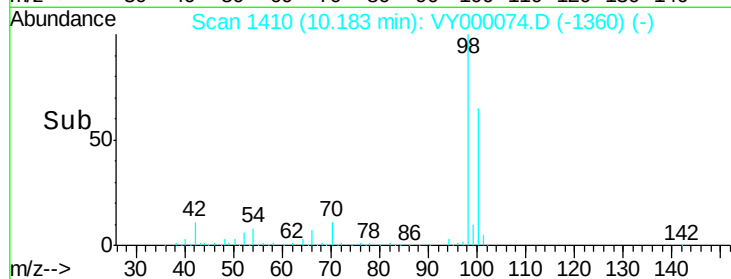
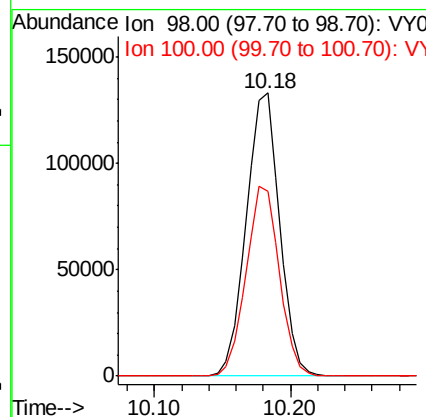
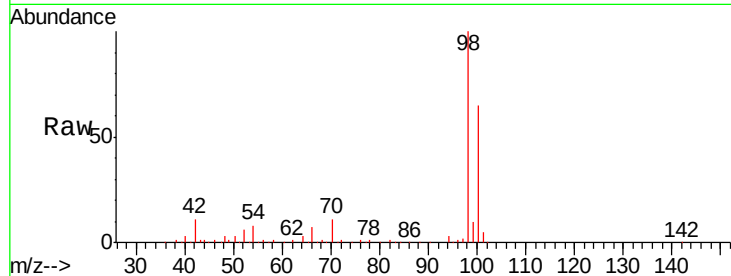




#50  
Toluene-d8  
Concen: 44.830 ug/l  
RT: 10.18 min Scan# 1410  
Delta R.T. 0.01 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

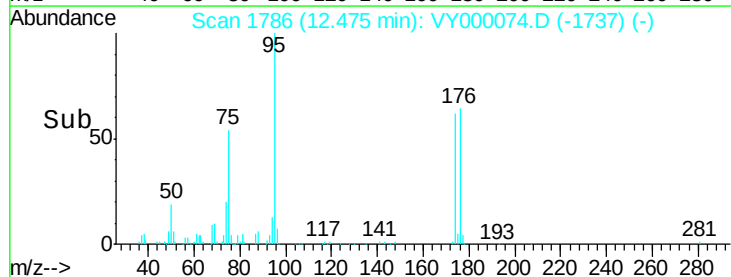
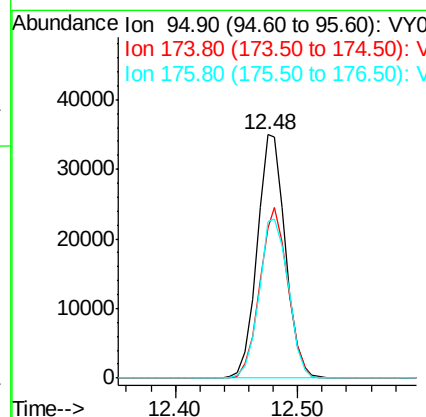
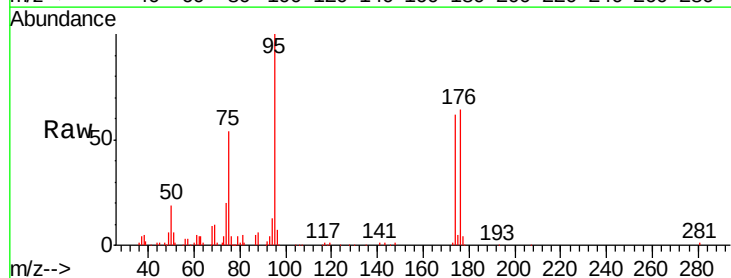
Instrument :  
MSVOA\_Y  
ClientSampled :  
CSA-2-4-2

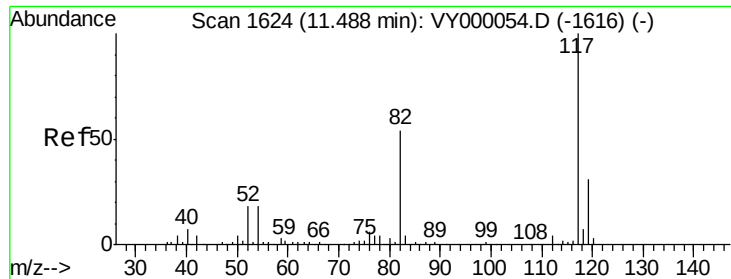
Tgt Ion: 98 Resp: 229111  
Ion Ratio Lower Upper  
98 100  
100 67.0 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 29.555 ug/l  
RT: 12.48 min Scan# 1786  
Delta R.T. -0.00 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

Tgt Ion: 95 Resp: 56079  
Ion Ratio Lower Upper  
95 100  
174 69.1 0.0 137.2  
176 67.6 0.0 135.0

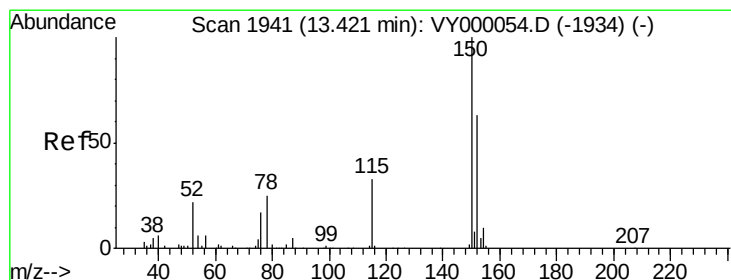
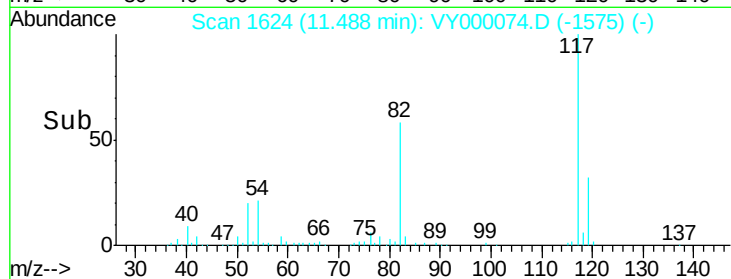
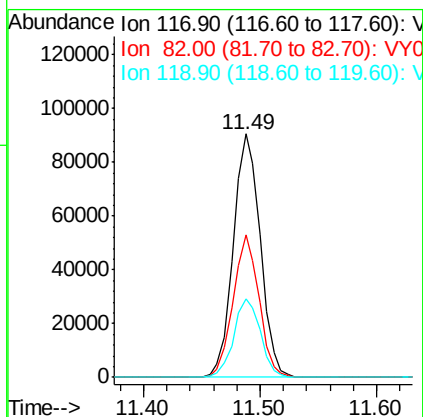
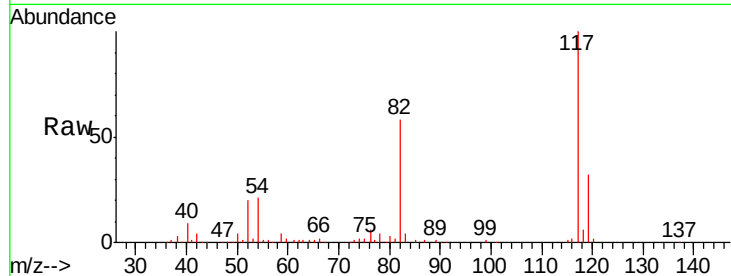




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1624  
Delta R.T. -0.00 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

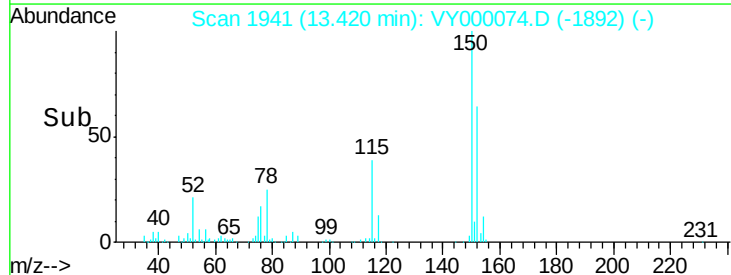
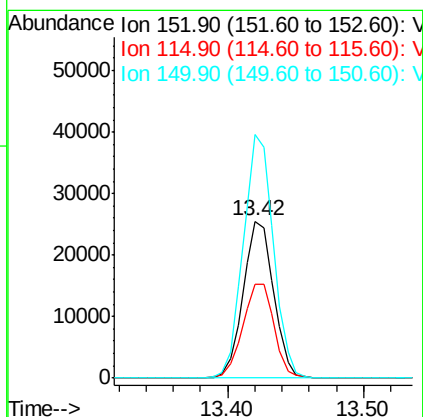
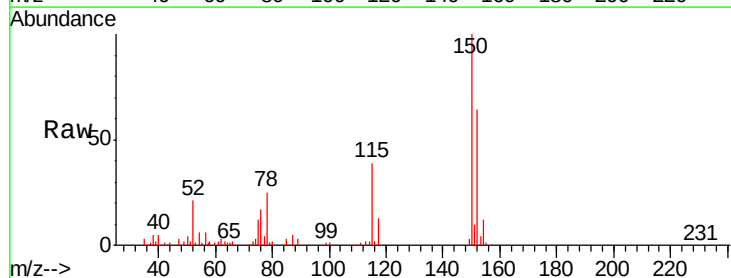
Instrument :  
MSVOA\_Y  
ClientSampleId :  
CSA-2-4-2

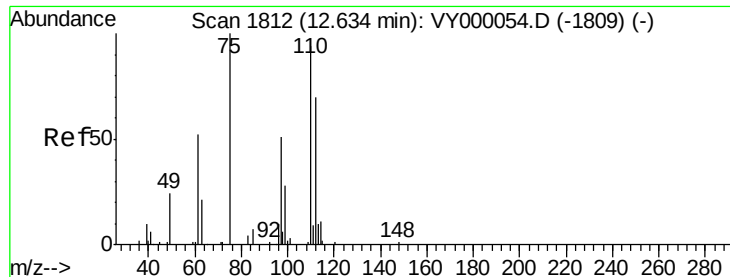
Tgt Ion:117 Resp: 146140  
Ion Ratio Lower Upper  
117 100  
82 58.4 43.5 65.3  
119 32.0 24.6 36.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1941  
Delta R.T. -0.00 min  
Lab File: VY000074.D  
Acq: 19 Sep 2019 14:02

Tgt Ion:152 Resp: 39815  
Ion Ratio Lower Upper  
152 100  
115 62.0 30.7 92.1  
150 154.2 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 51.213 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.16 min

Lab File: VY000074.D

Acq: 19 Sep 2019 14:02

Instrument :

MSVOA\_Y

ClientSampleId :

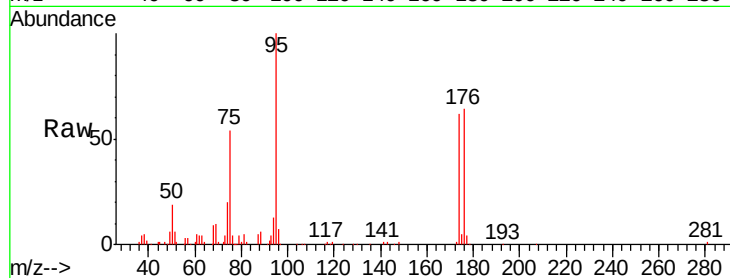
CSA-2-4-2

Tgt Ion: 75 Resp: 28689

Ion Ratio Lower Upper

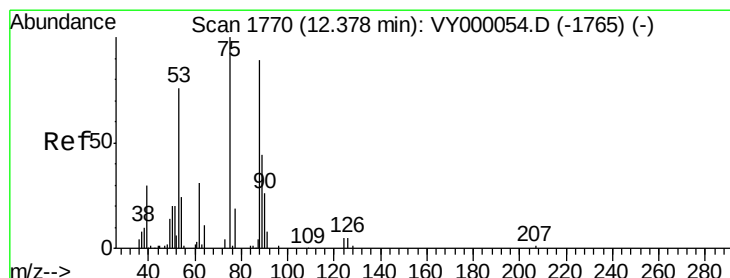
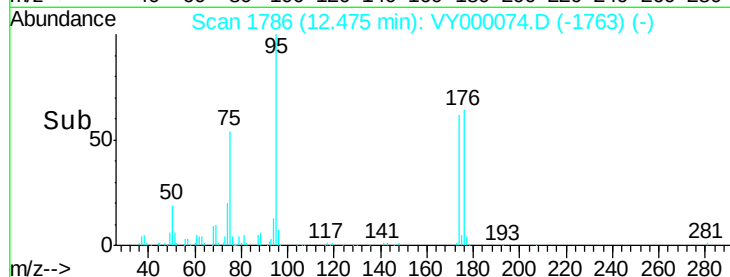
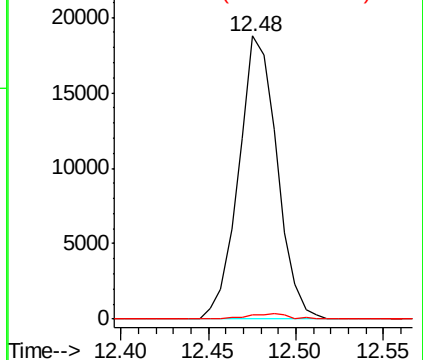
75 100

77 2.0 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: 98.495 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. 0.10 min

Lab File: VY000074.D

Acq: 19 Sep 2019 14:02

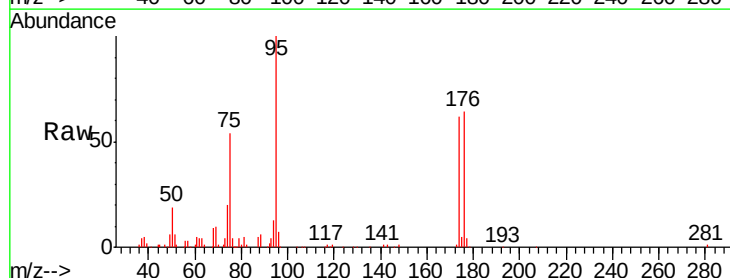
Tgt Ion: 75 Resp: 28689

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

89 0.0 35.3 52.9#



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

