

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020620\  
 Data File : VY001544.D  
 Acq On : 06 Feb 2020 20:16  
 Operator : SY/MD  
 Sample : L1403-02  
 Misc : 11.54G/5ML/MSVOA Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Feb 07 04:10:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y020420S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 04 15:10:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 91362    | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 159415   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 143264   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 66391    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 54101    | 58.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.62% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 47954    | 52.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.34% |          |
| 50) Toluene-d8              | 10.20 | 98   | 186454   | 53.61 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 107.22% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 66619    | 48.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.24%  |          |

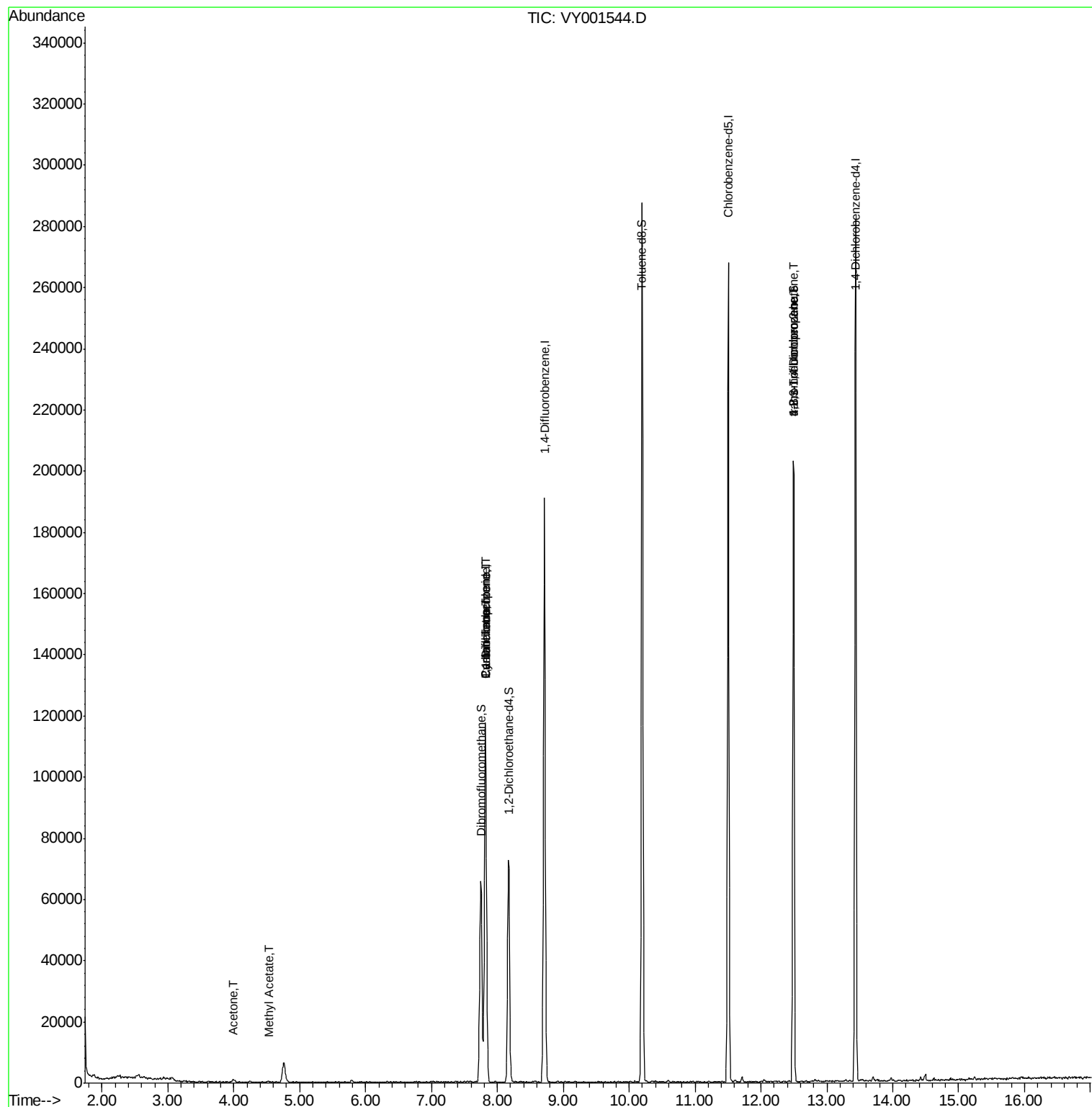
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.98  | 59   | 20       | Below Cal | #      | 76     |
| 16) Acetone                    | 4.00  | 43   | 1292     | 4.856     | ug/l # | 71     |
| 18) Methyl Acetate             | 4.53  | 43   | 589      | 1.037     | ug/l # | 66     |
| 20) Methylene Chloride         | 4.76  | 84   | 4812     | Below Cal |        | 96     |
| 31) Cyclohexane                | 7.82  | 56   | 1994     | 1.113     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 7195     | 4.934     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 8834     | 6.261     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 34255    | 47.978    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 34255    | 92.835    | ug/l # | 16     |

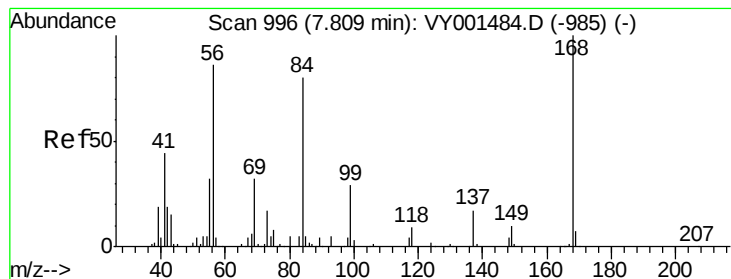
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

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Quant Title : SW846 8260  
QLast Update : Tue Feb 04 15:10:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

Instrument :

MSVOA\_Y

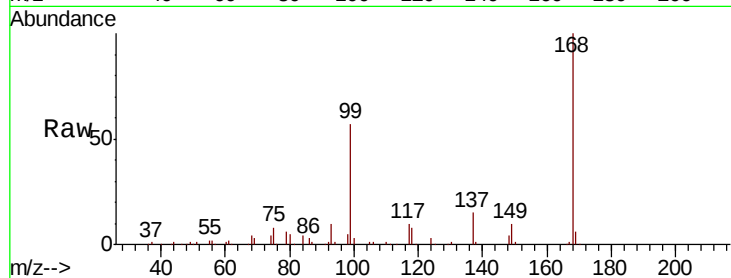
ClientSampleId :

Tot Ion:168 Resp: 91362

Ion Ratio Lower Upper

168 100

99 56.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VY001544.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY001544.D (-947) (-)

7.82

40000

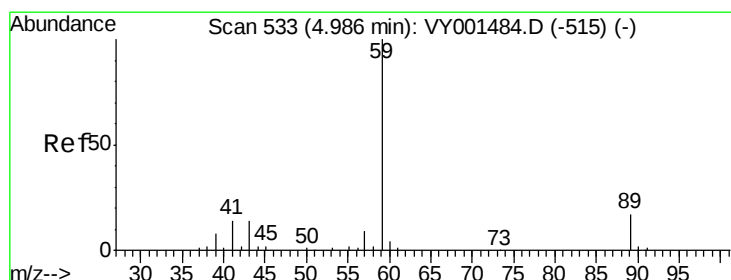
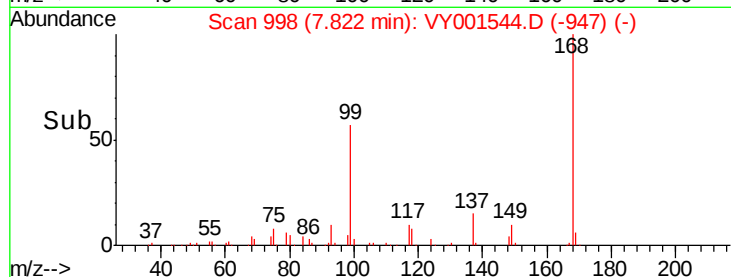
30000

20000

10000

0

Time--> 7.70 7.75 7.80 7.85 7.90



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY001544.D

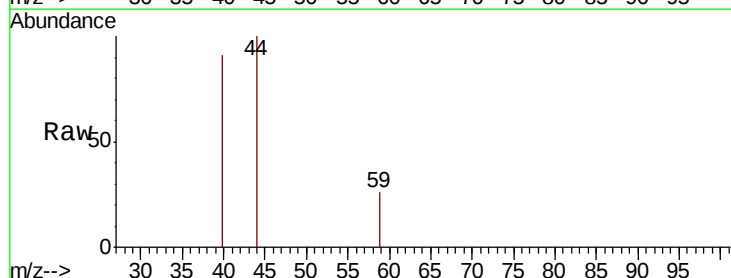
Acq: 06 Feb 2020 20:16

Tgt Ion: 59 Resp: 20

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VY001544.D (-484) (-)

Ion 57.00 (56.70 to 57.70): VY001544.D (-484) (-)

4.98

60

50

40

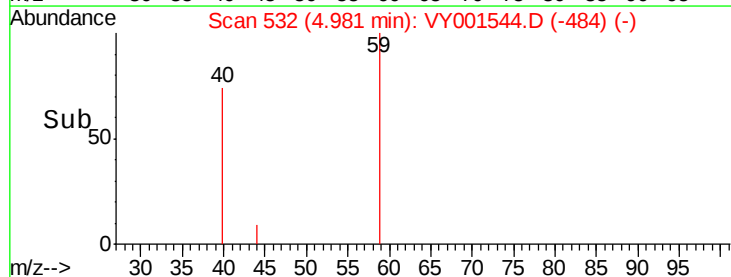
30

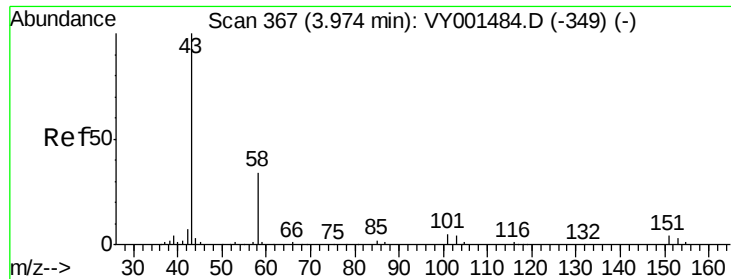
20

10

0

Time--> 4.96 4.97 4.98 4.99 5.00





#16

Acetone

Concen: 4.856 ug/l

RT: 4.00 min Scan# 371

Delta R.T. 0.02 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

Instrument :

MSVOA\_Y

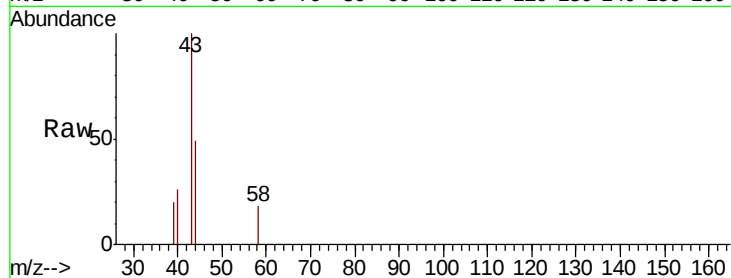
ClientSampled :

Tot Ion: 43 Resp: 1292

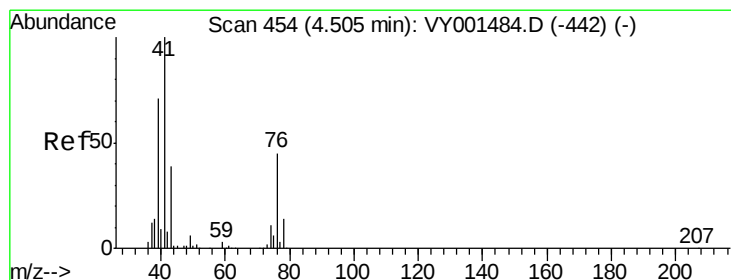
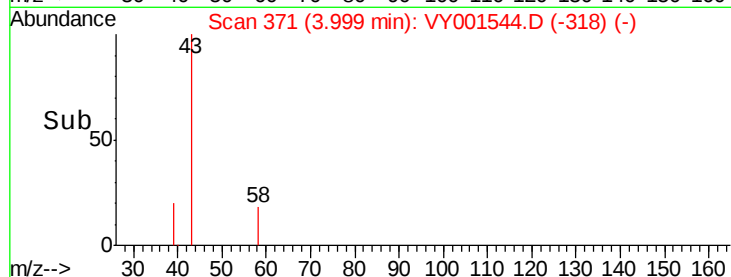
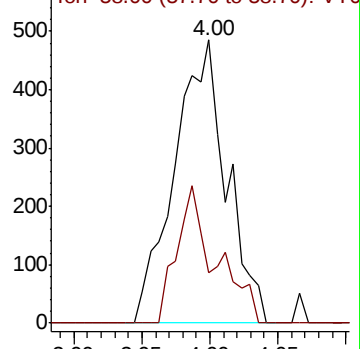
Ion Ratio Lower Upper

43 100

58 17.5 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VY001544.D (-371) (-)



#18

Methyl Acetate

Concen: 1.037 ug/l

RT: 4.53 min Scan# 458

Delta R.T. 0.02 min

Lab File: VY001544.D

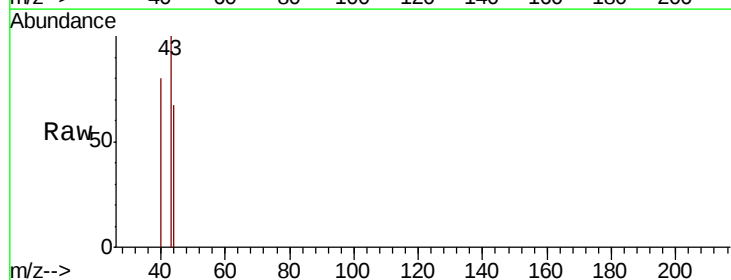
Acq: 06 Feb 2020 20:16

Tgt Ion: 43 Resp: 589

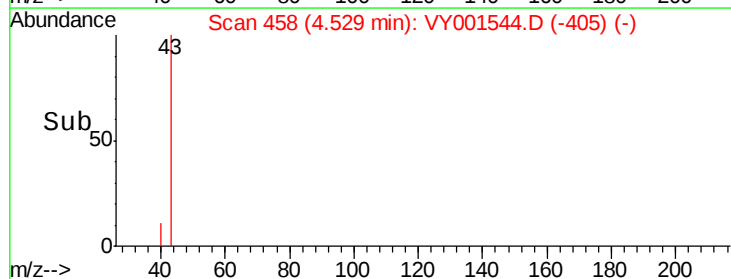
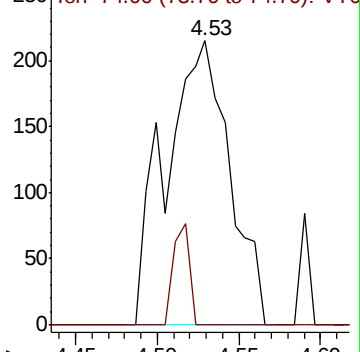
Ion Ratio Lower Upper

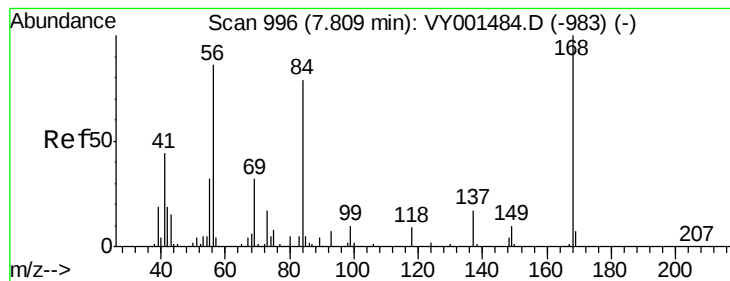
43 100

74 8.7 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VY001544.D (-458) (-)





#31

Cyclohexane

Concen: 1.113 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

Instrument :

MSVOA\_Y

ClientSampleId :

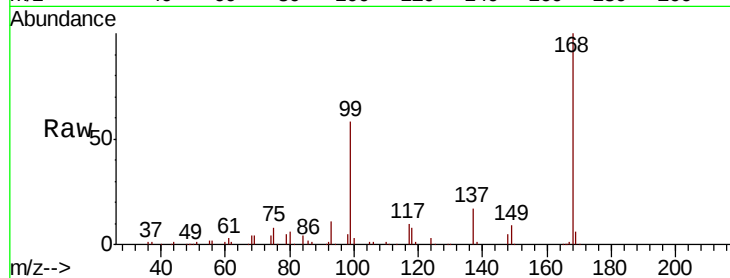
Tot Ion: 56 Resp: 1994

Ion Ratio Lower Upper

56 100

69 196.0 29.6 44.4#

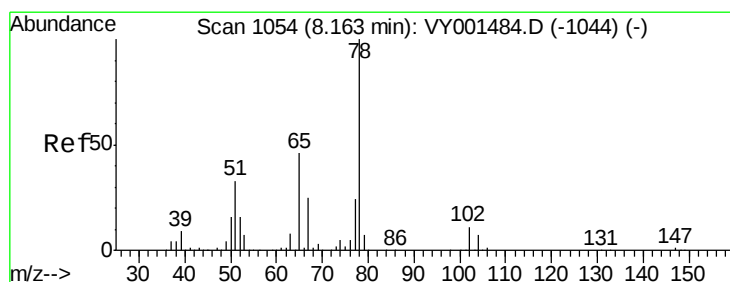
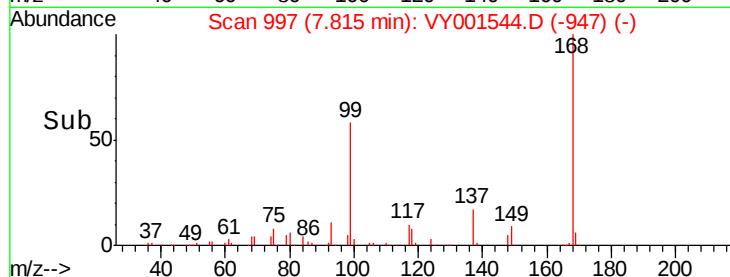
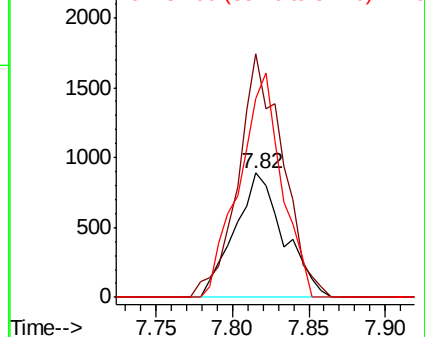
84 160.4 73.6 110.4#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 58.813 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY001544.D

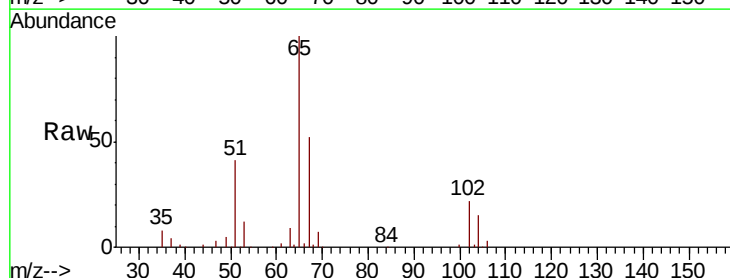
Acq: 06 Feb 2020 20:16

Tgt Ion: 65 Resp: 54101

Ion Ratio Lower Upper

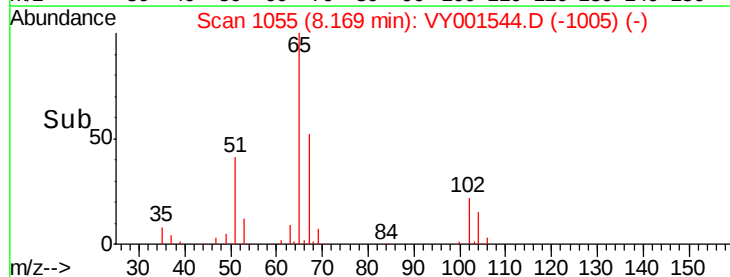
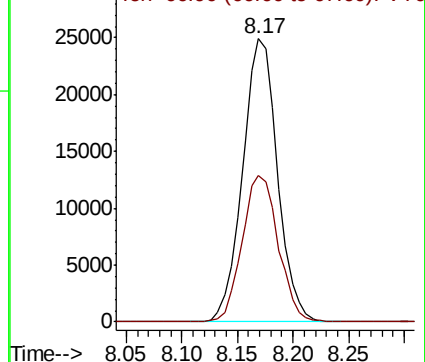
65 100

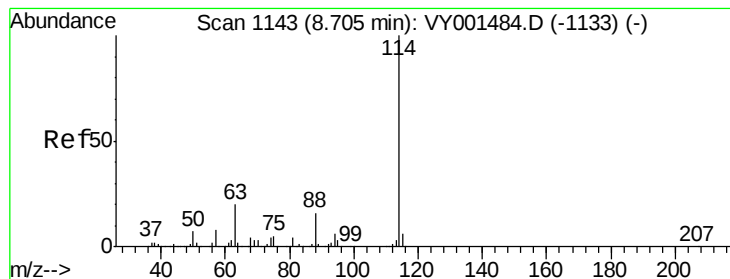
67 53.6 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

Instrument :

MSVOA\_Y

ClientSampleId :

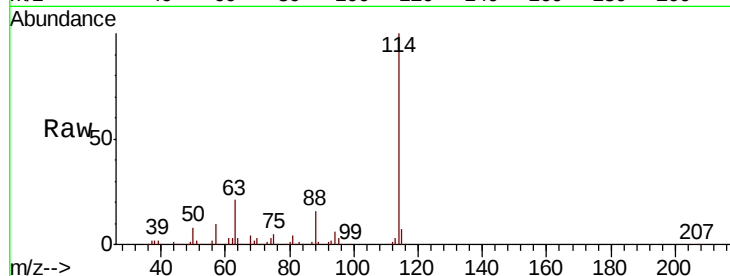
Tot Ion:114 Resp: 159415

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.8

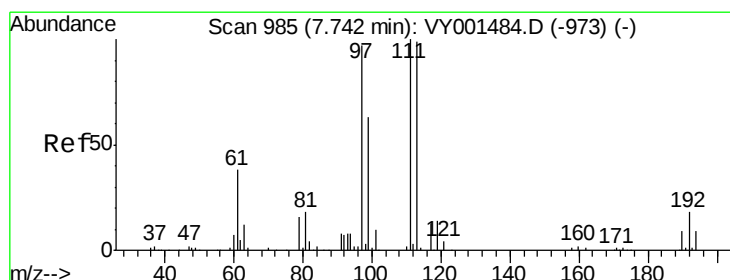
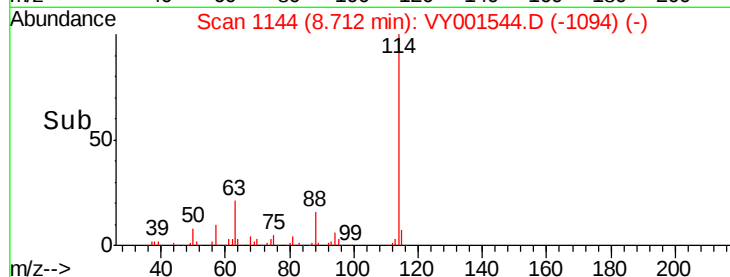
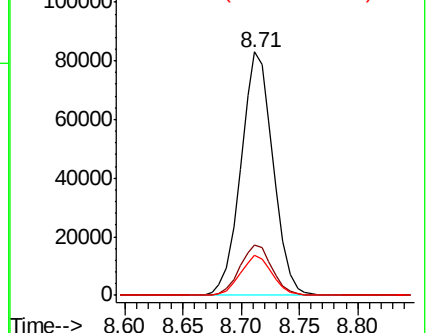
88 16.2 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 52.166 ug/l

RT: 7.75 min Scan# 986

Delta R.T. 0.01 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

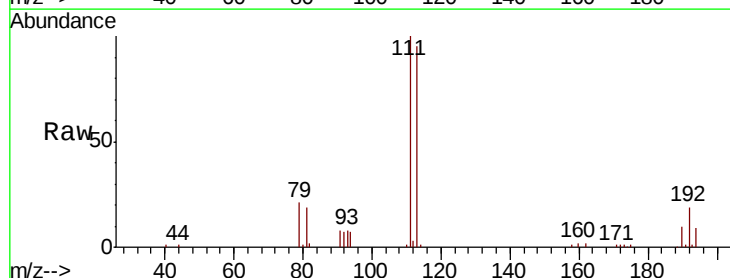
Tgt Ion:113 Resp: 47954

Ion Ratio Lower Upper

113 100

111 98.9 82.9 124.3

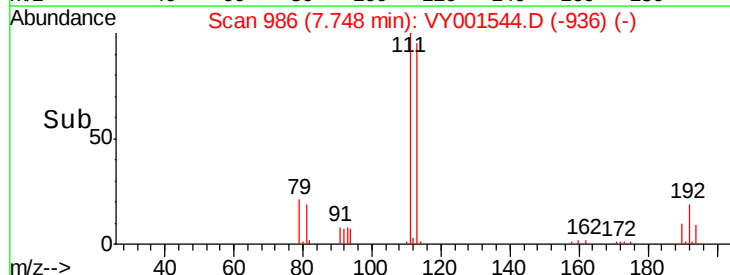
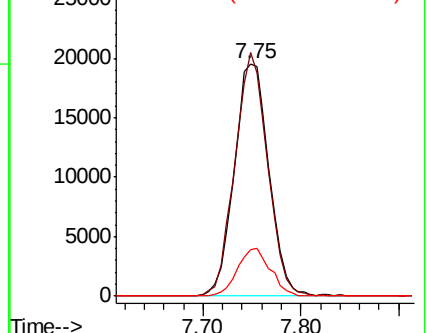
192 19.6 14.6 22.0

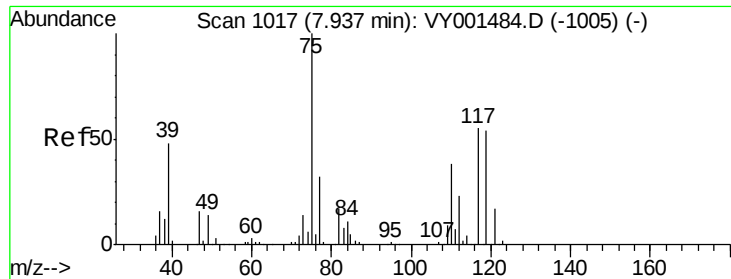


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

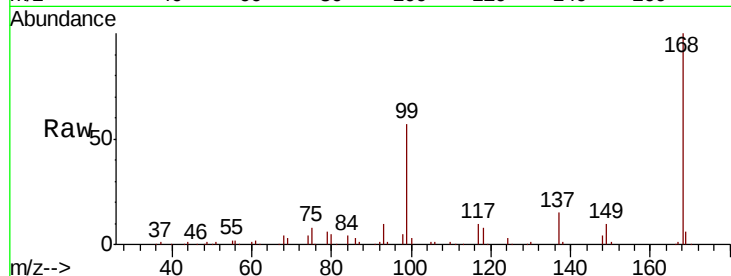




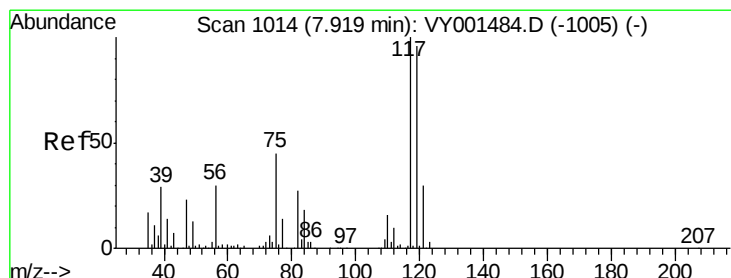
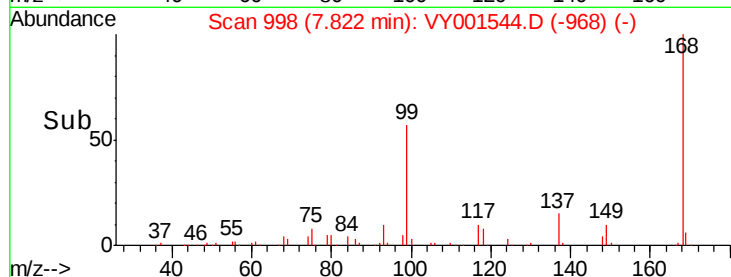
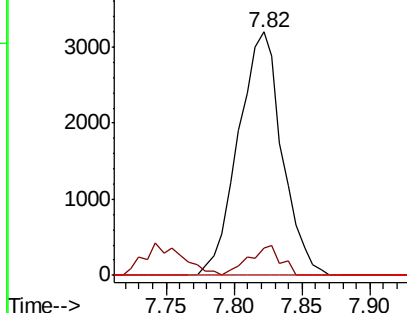
#36  
 1,1-Dichloropropene  
 Concen: 4.934 ug/l  
 RT: 7.82 min Scan# 998  
 Delta R.T. -0.12 min  
 Lab File: VY001544.D  
 Acq: 06 Feb 2020 20:16

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 18.2  | 54.6# |
| 77      | 0.0   | 25.0  | 37.4# |

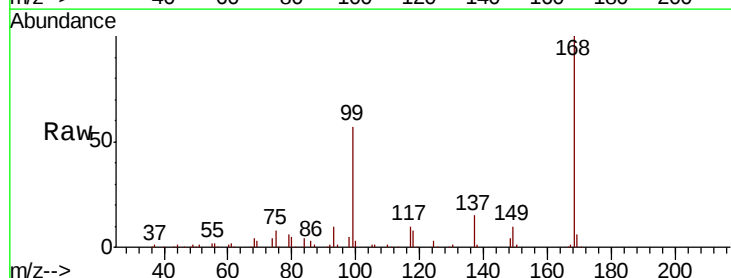


Abundance Ion 74.90 (74.60 to 75.60): VY0  
 Ion 109.90 (109.60 to 110.60): VY0  
 Ion 76.90 (76.60 to 77.60): VY0

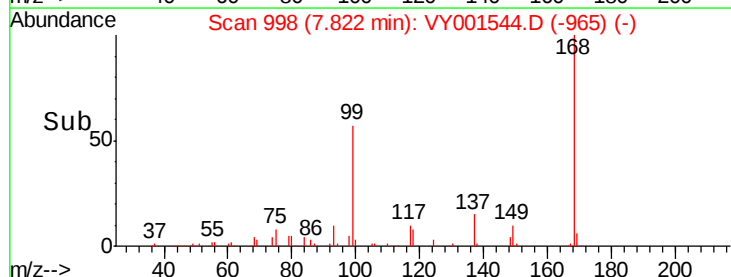
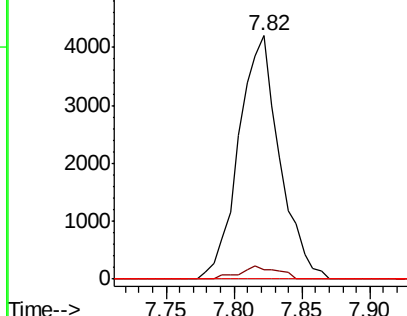


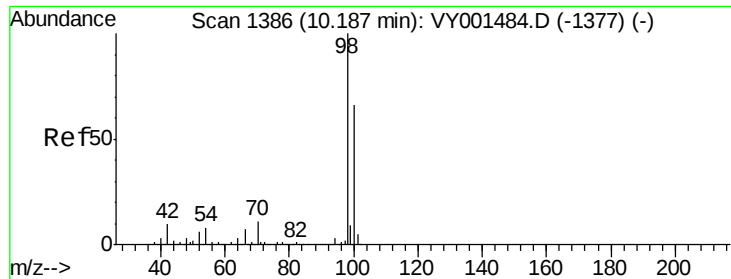
#38  
 Carbon Tetrachloride  
 Concen: 6.261 ug/l  
 RT: 7.82 min Scan# 998  
 Delta R.T. -0.10 min  
 Lab File: VY001544.D  
 Acq: 06 Feb 2020 20:16

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.0   | 76.4  | 114.6# |
| 121     | 0.0   | 24.2  | 36.4#  |



Abundance Ion 116.80 (116.50 to 117.50): VY0  
 Ion 118.80 (118.50 to 119.50): VY0  
 Ion 120.80 (120.50 to 121.50): VY0





#50

Toluene-d8

Concen: 53.610 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

Instrument :

MSVOA\_Y

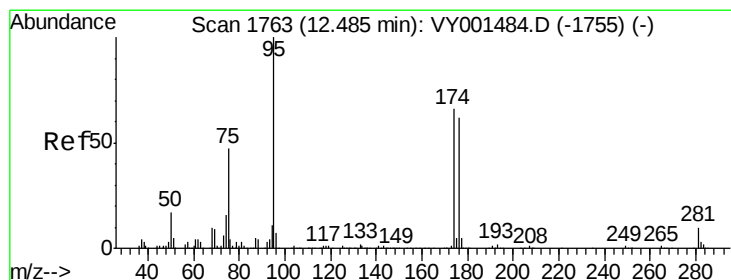
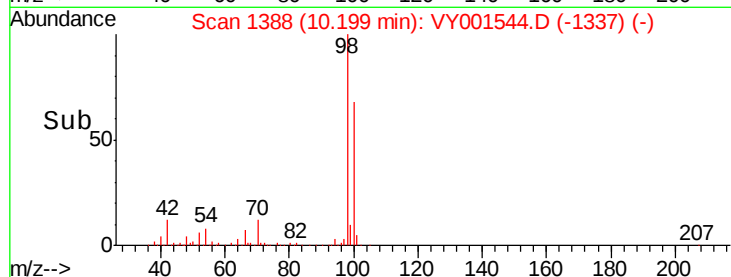
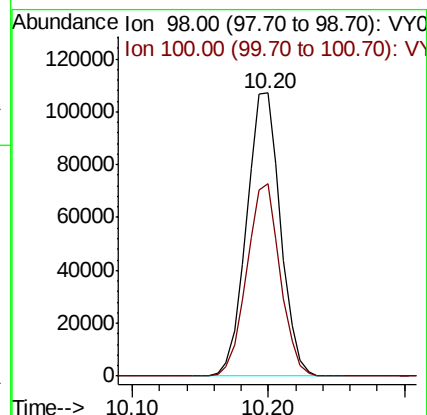
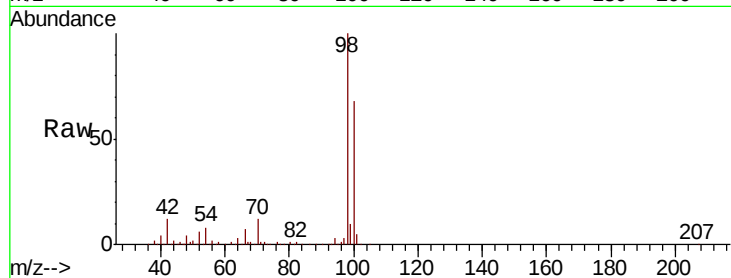
ClientSampleId :

Tot Ion: 98 Resp: 186454

Ion Ratio Lower Upper

98 100

100 66.9 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 48.622 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

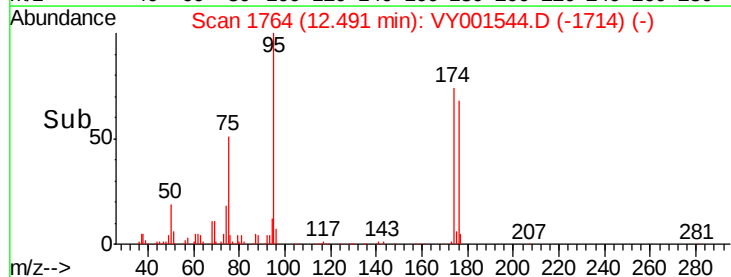
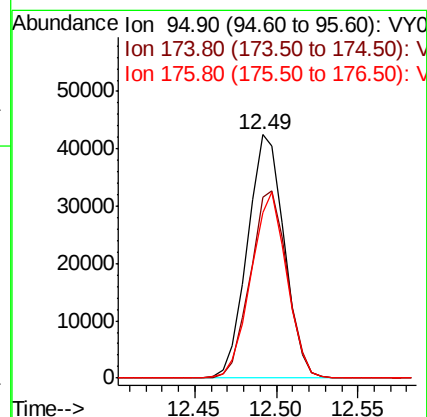
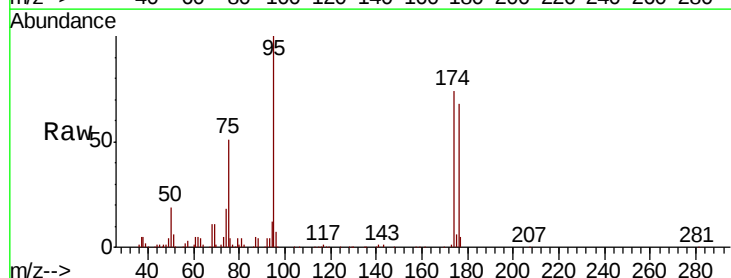
Tgt Ion: 95 Resp: 66619

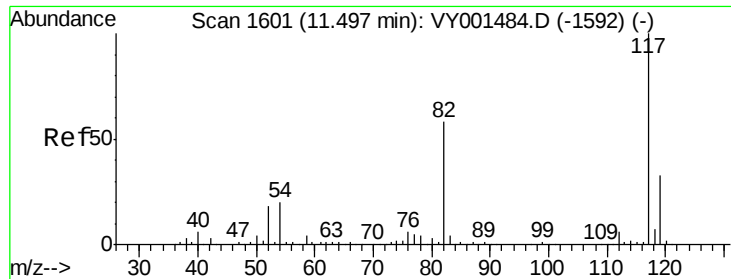
Ion Ratio Lower Upper

95 100

174 77.6 0.0 141.4

176 74.7 0.0 135.4

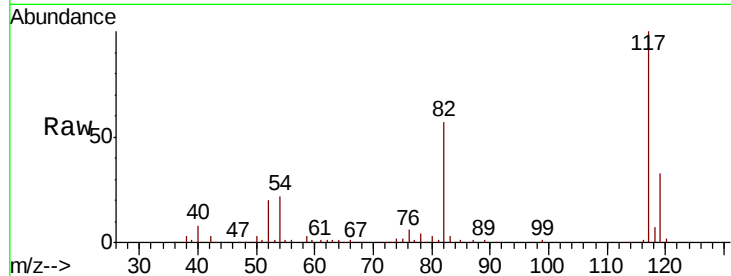




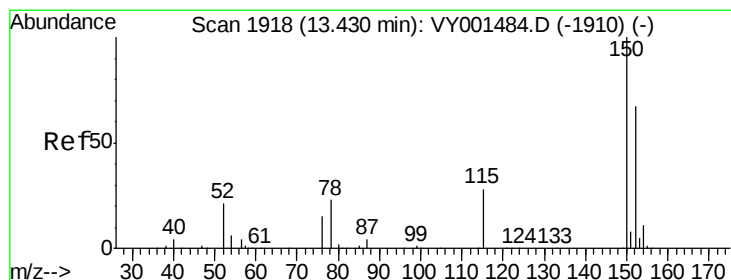
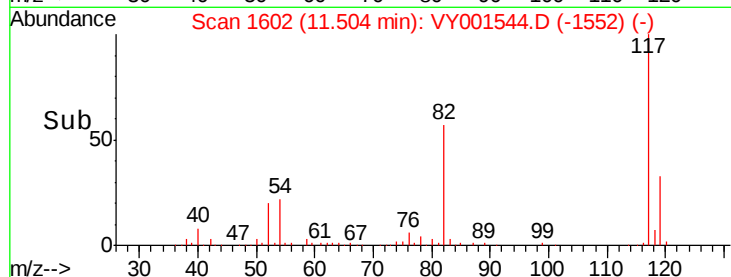
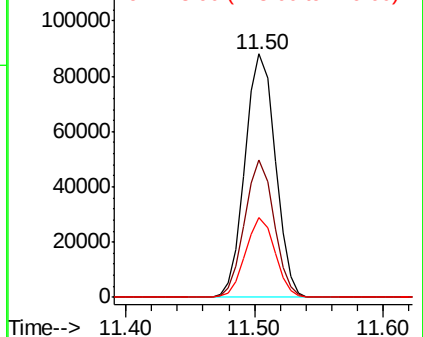
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.01 min  
Lab File: VY001544.D  
Acq: 06 Feb 2020 20:16

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:117 Resp: 143264  
Ion Ratio Lower Upper  
117 100  
82 56.7 46.1 69.1  
119 32.9 26.1 39.1

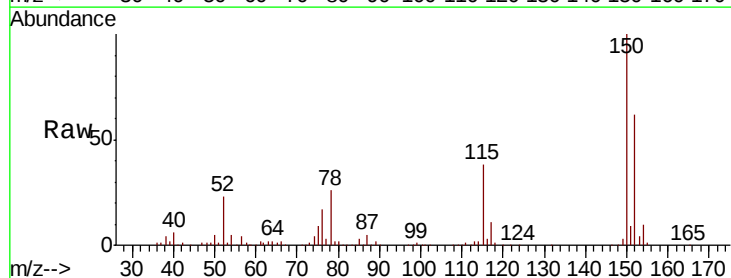


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

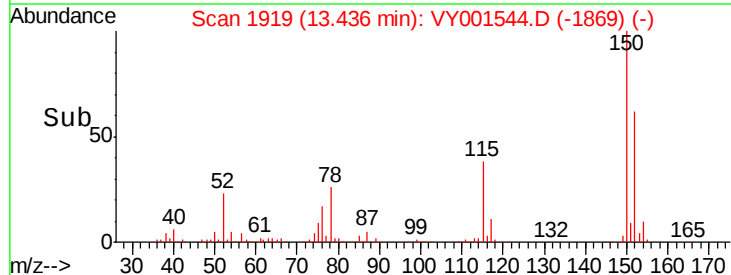
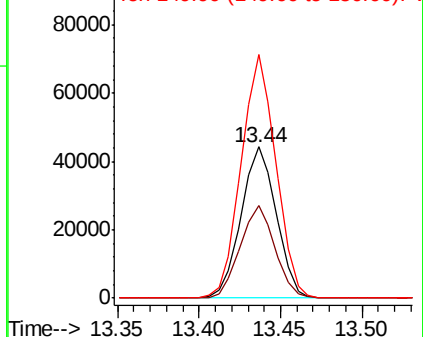


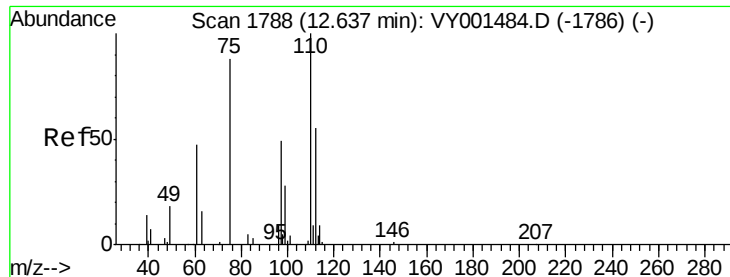
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. 0.01 min  
Lab File: VY001544.D  
Acq: 06 Feb 2020 20:16

Tgt Ion:152 Resp: 66391  
Ion Ratio Lower Upper  
152 100  
115 60.5 31.4 94.3  
150 159.4 0.0 346.8



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: 47.978 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

Instrument :

MSVOA\_Y

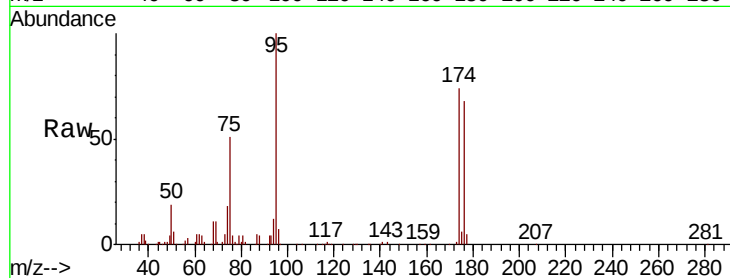
ClientSampleId :

Tot Ion: 75 Resp: 34255

Ion Ratio Lower Upper

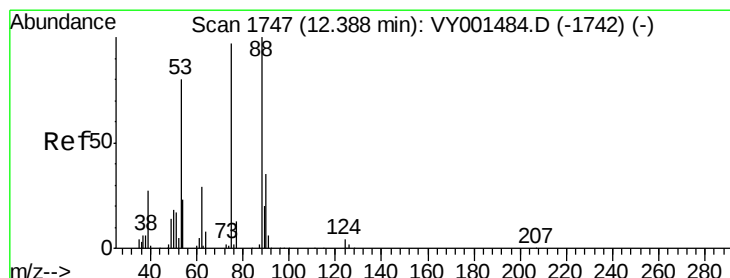
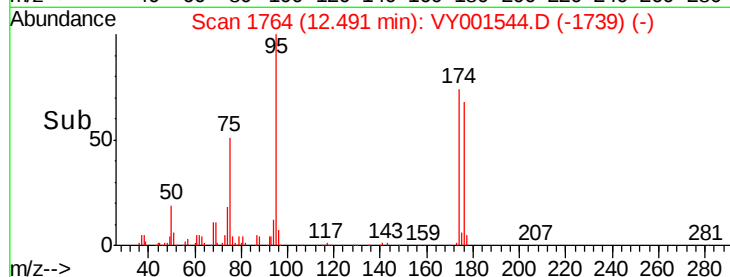
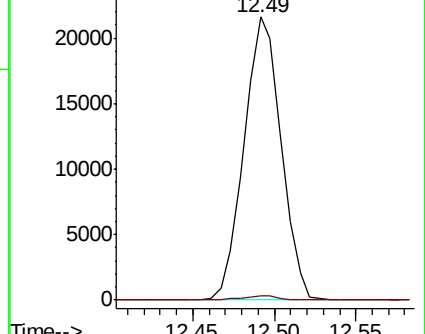
75 100

77 1.6 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: 92.835 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001544.D

Acq: 06 Feb 2020 20:16

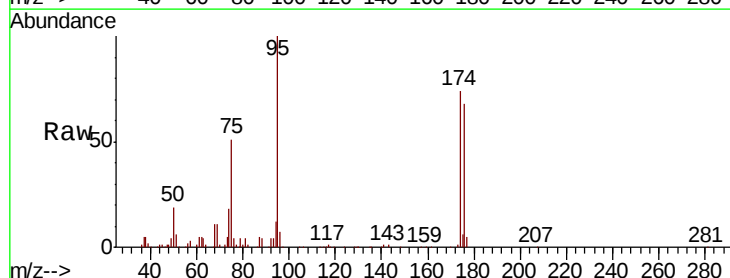
Tgt Ion: 75 Resp: 34255

Ion Ratio Lower Upper

75 100

53 0.0 67.7 101.5#

89 0.1 34.6 52.0#



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

