

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY032020\  
 Data File : VY002035.D  
 Acq On : 20 Mar 2020 12:32  
 Operator : SY/MD  
 Sample : L1755-05RE  
 Misc : 7.43G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OK-01-031920

Quant Time: Mar 20 16:13:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 140359   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 270597   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 243467   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 98545    | 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   | 89118    | 59.47 | ug/l    | -0.01    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 118.94% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 80610    | 54.56 | ug/l    | -0.01    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 109.12% |          |
| 50) Toluene-d8              | 10.19 | 98   | 328903   | 52.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.58% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 107826   | 49.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.54%  |          |

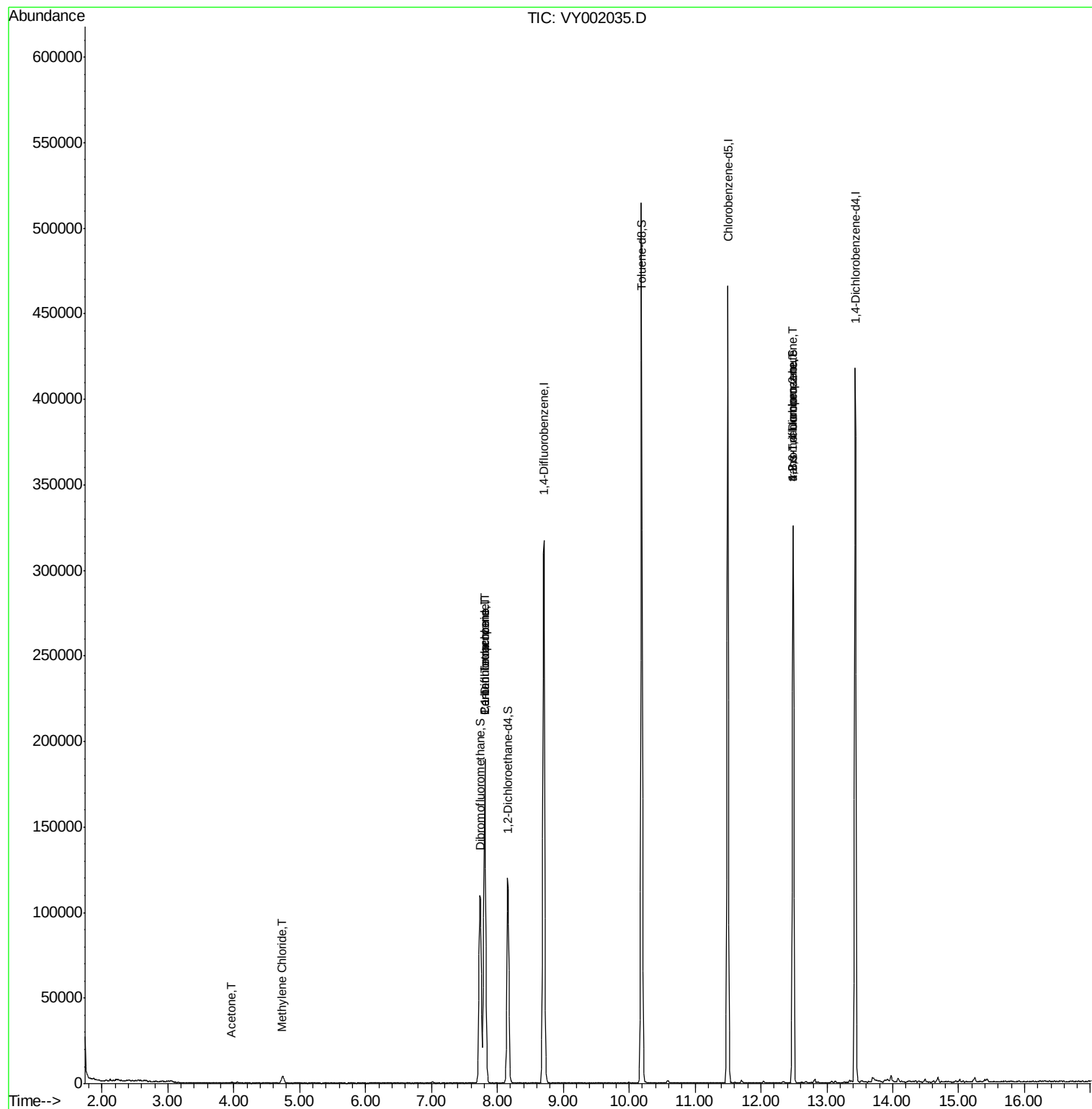
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.68  | 94   | 120      | Below Cal | #      | 44     |
| 11) Tert butyl alcohol         | 4.97  | 59   | 53       | Below Cal | #      | 74     |
| 16) Acetone                    | 3.96  | 43   | 1092     | 2.50      | ug/l # | 84     |
| 20) Methylene Chloride         | 4.74  | 84   | 2997     | 1.60      | ug/l   | 92     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 11951    | 4.59      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 13969    | 6.28      | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 54996    | 47.03     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 54996    | 95.00     | ug/l # | 17     |

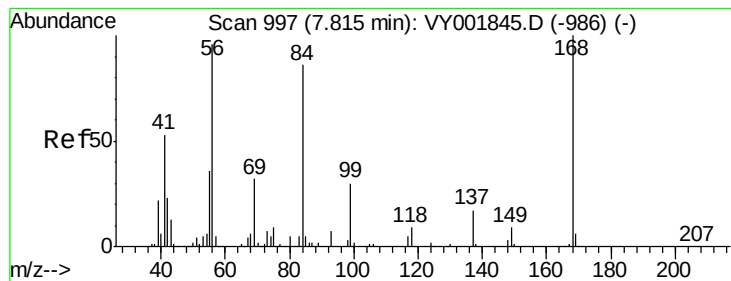
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 20 16:13:43 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY002035.D

Acq: 20 Mar 2020 12:32

Instrument :

MSVOA\_Y

ClientSampleId :

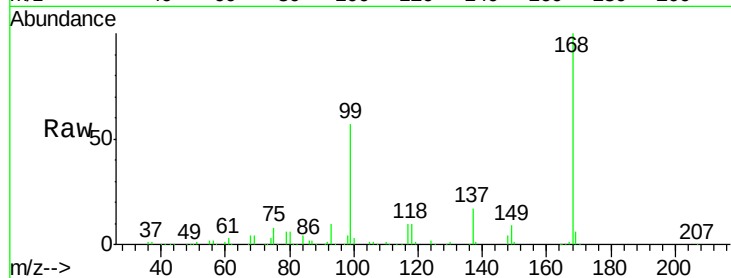
OK-01-031920

Tgt Ion:168 Resp: 140359

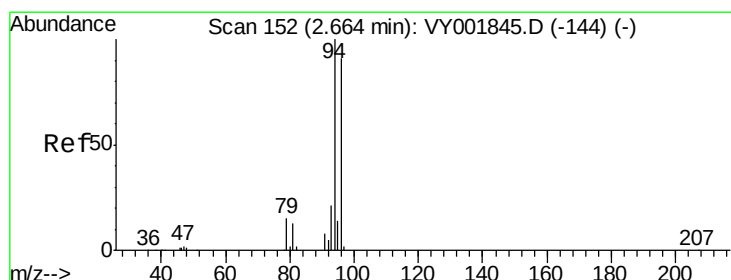
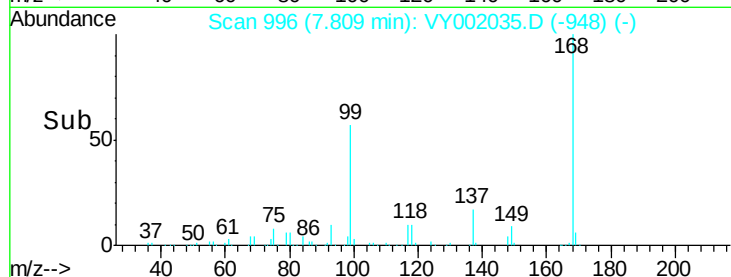
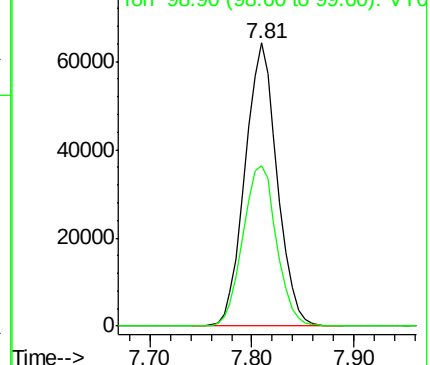
Ion Ratio Lower Upper

168 100

99 56.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.68 min Scan# 154

Delta R.T. 0.01 min

Lab File: VY002035.D

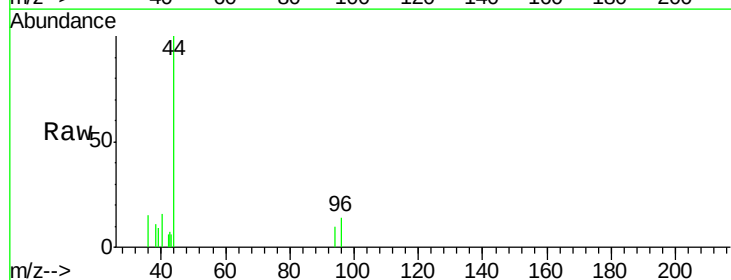
Acq: 20 Mar 2020 12:32

Tgt Ion: 94 Resp: 120

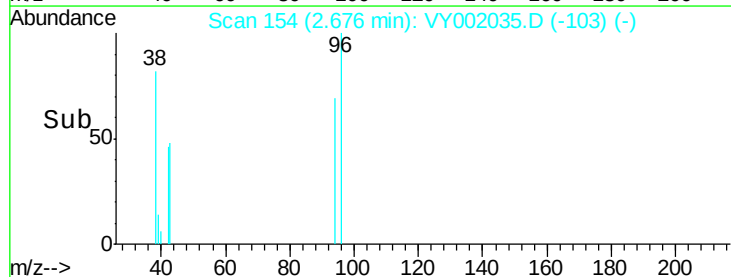
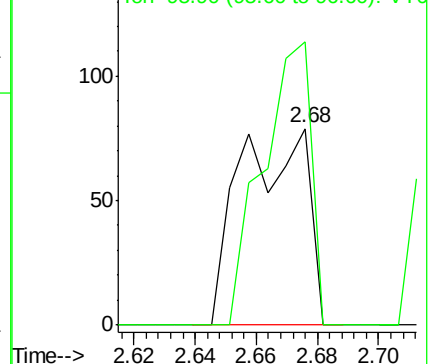
Ion Ratio Lower Upper

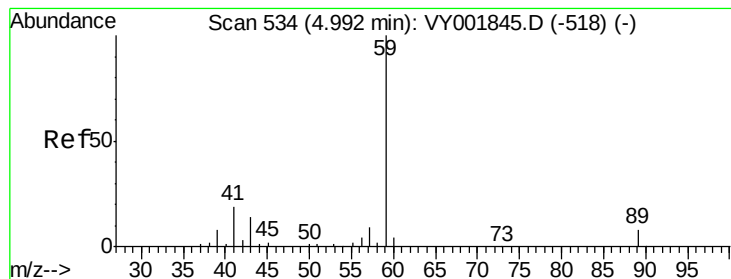
94 100

96 144.3 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY001845.D (-144) (-)



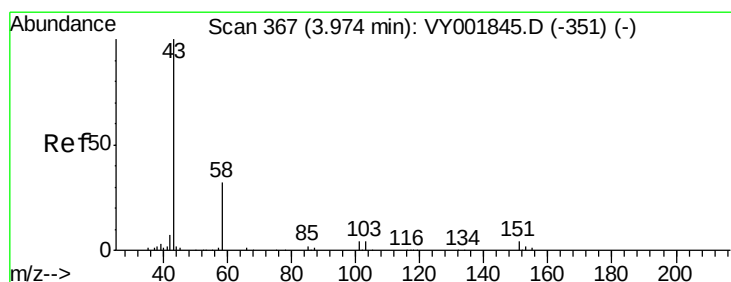
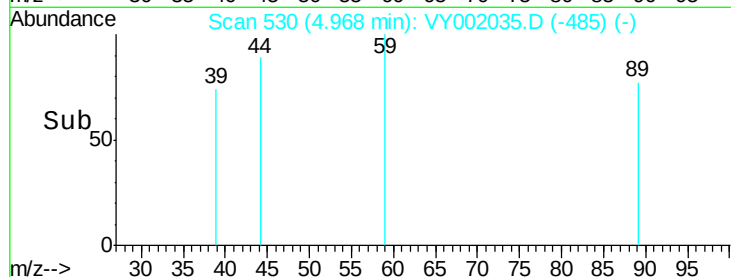
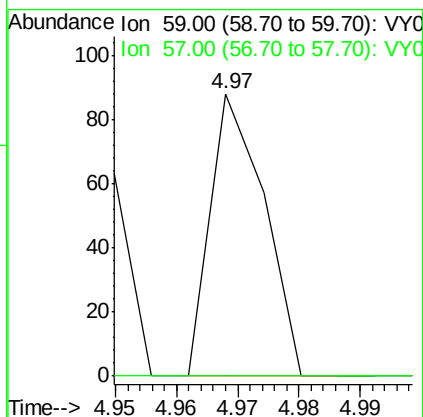
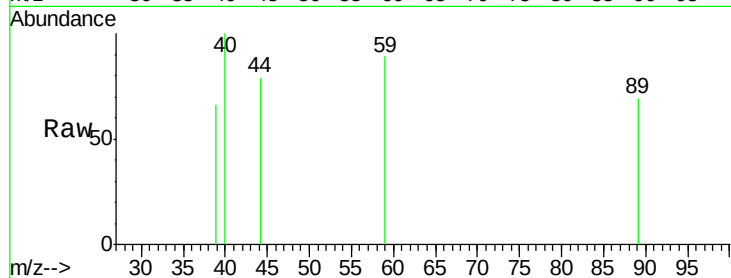


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.97 min Scan# 530  
 Delta R.T. -0.02 min  
 Lab File: VY002035.D  
 Acq: 20 Mar 2020 12:32

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OK-01-031920

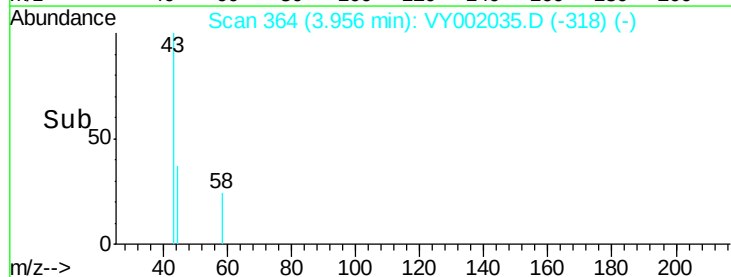
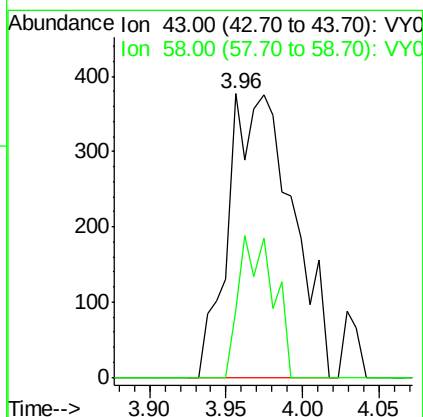
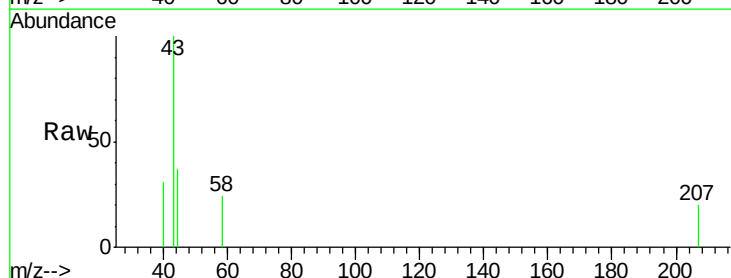
Tgt Ion: 59 Resp: 53  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.4 11.2#

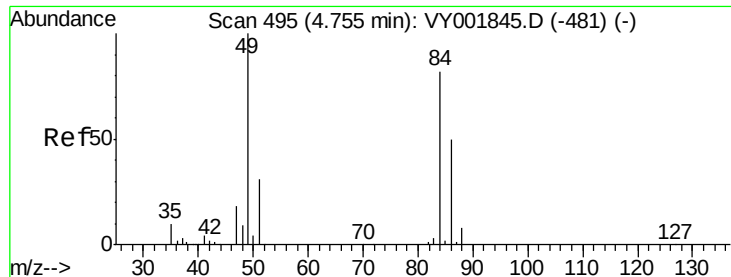


#16

Acetone  
 Concen: 2.50 ug/l  
 RT: 3.96 min Scan# 364  
 Delta R.T. -0.02 min  
 Lab File: VY002035.D  
 Acq: 20 Mar 2020 12:32

Tgt Ion: 43 Resp: 1092  
 Ion Ratio Lower Upper  
 43 100  
 58 23.6 25.9 38.9#

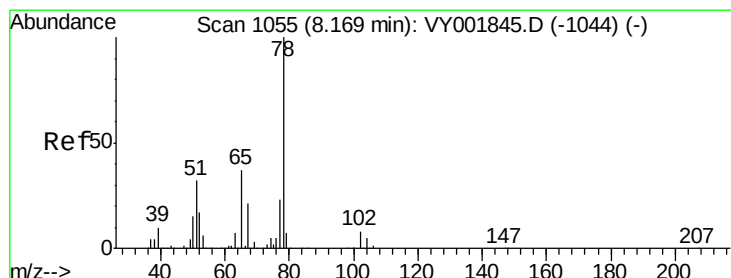
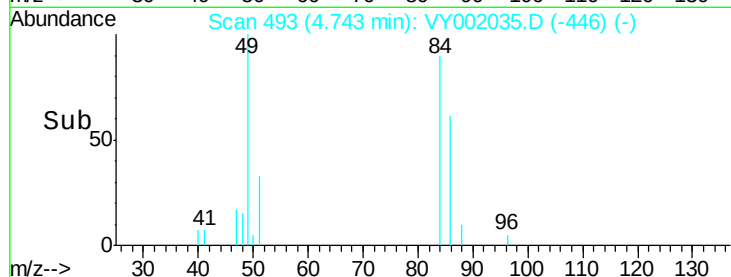
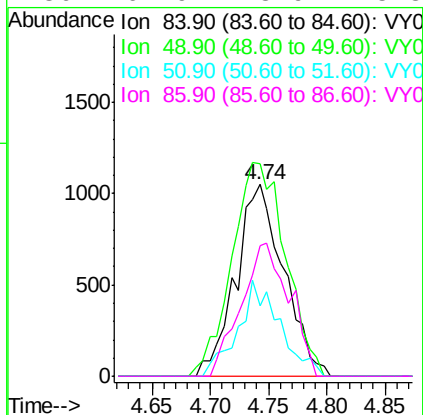
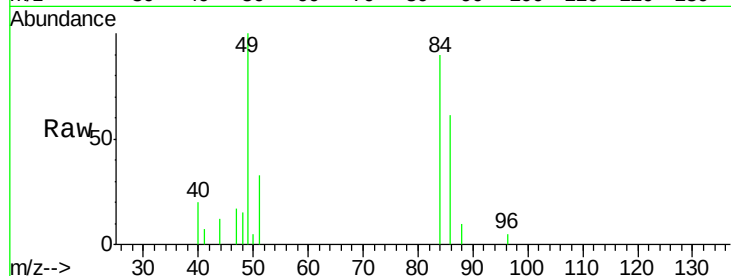




#20  
Methylene Chloride  
Concen: 1.60 ug/l  
RT: 4.74 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VY002035.D  
Acq: 20 Mar 2020 12:32

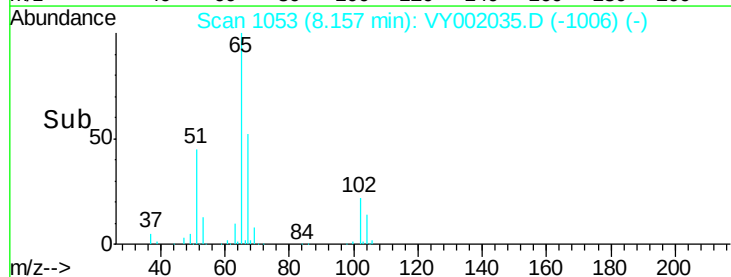
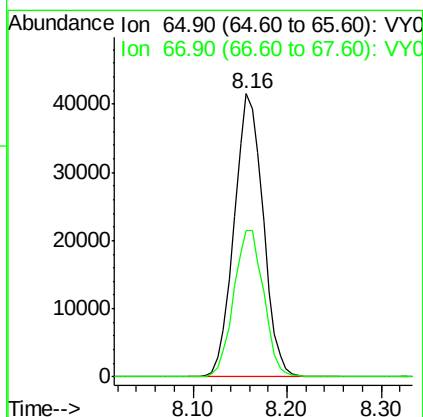
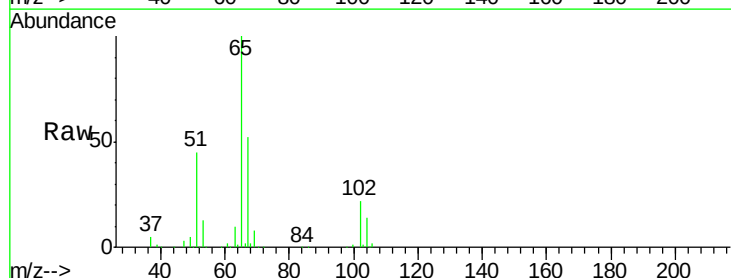
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OK-01-031920

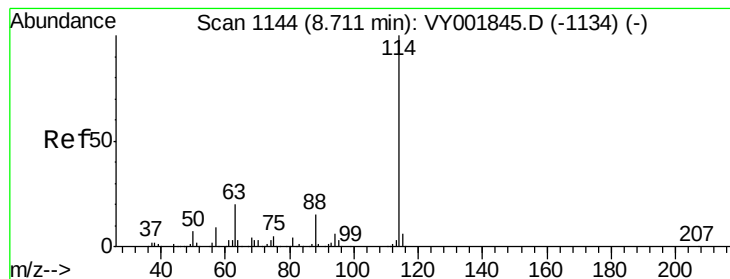
Tgt Ion: 84 Resp: 2997  
Ion Ratio Lower Upper  
84 100  
49 111.1 98.2 147.2  
51 37.1 30.2 45.2  
86 67.9 48.9 73.3



#33  
1,2-Dichloroethane-d4  
Concen: 59.47 ug/l  
RT: 8.16 min Scan# 1053  
Delta R.T. -0.01 min  
Lab File: VY002035.D  
Acq: 20 Mar 2020 12:32

Tgt Ion: 65 Resp: 89118  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 110.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY002035.D

Acq: 20 Mar 2020 12:32

Instrument :

MSVOA\_Y

ClientSampleId :

OK-01-031920

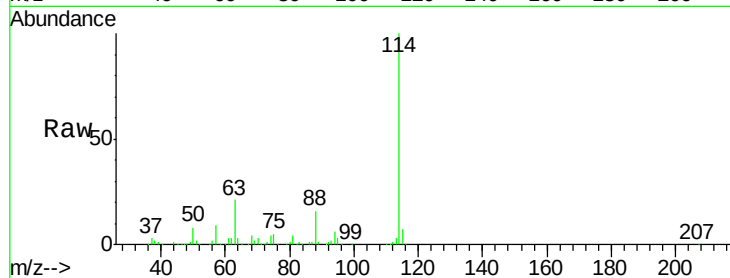
Tgt Ion:114 Resp: 270597

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.4

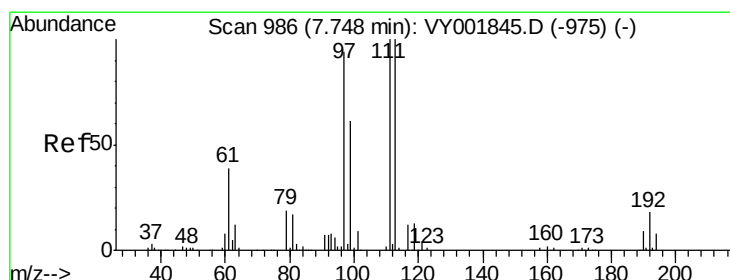
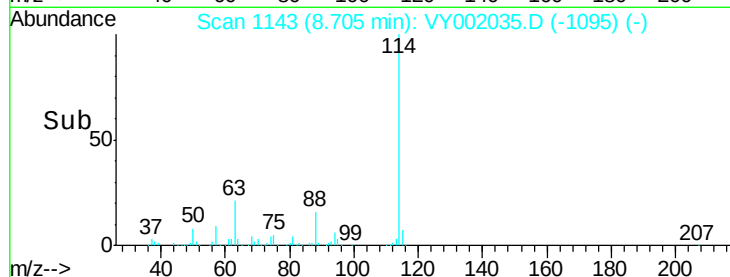
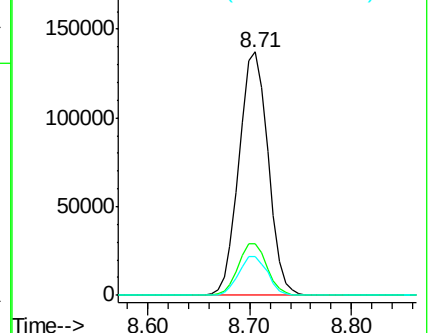
88 15.8 0.0 30.4



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: 54.56 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.01 min

Lab File: VY002035.D

Acq: 20 Mar 2020 12:32

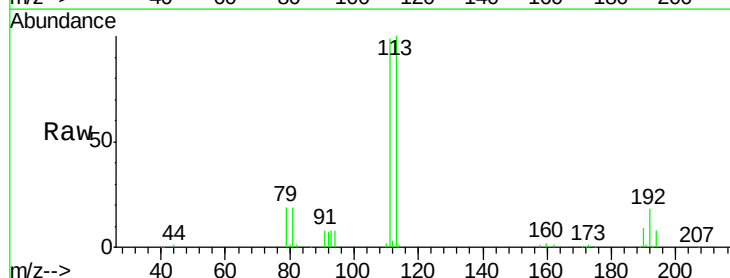
Tgt Ion:113 Resp: 80610

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

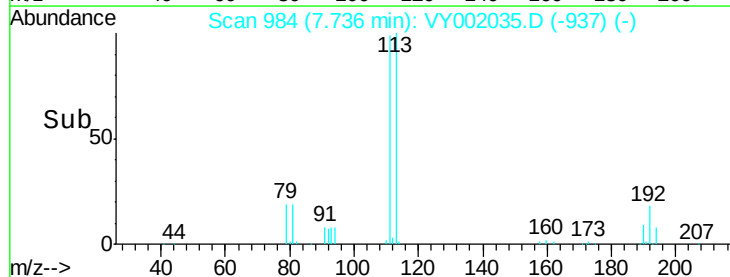
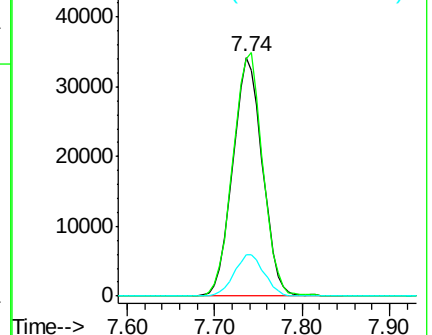
192 17.6 14.2 21.2

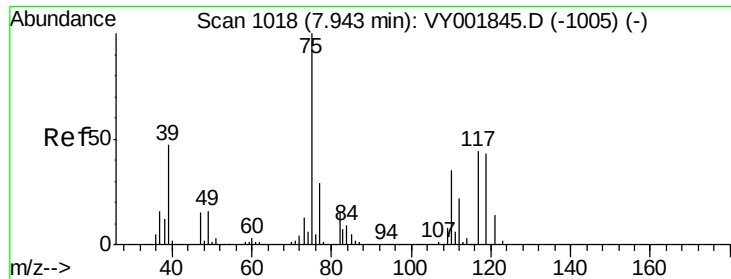


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

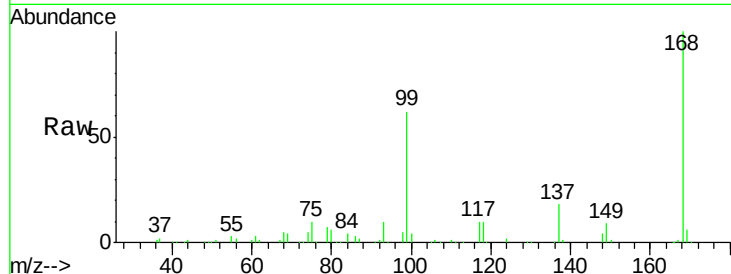




#36  
 1,1-Dichloropropene  
 Concen: 4.59 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.14 min  
 Lab File: VY002035.D  
 Acq: 20 Mar 2020 12:32

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OK-01-031920

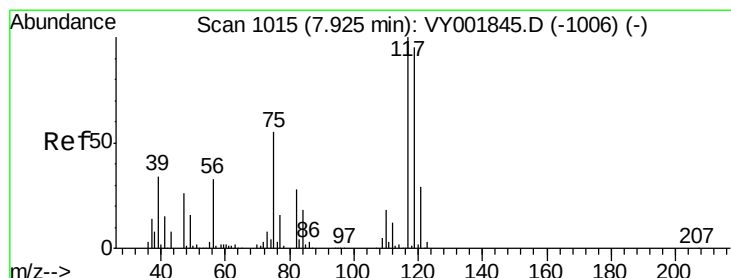
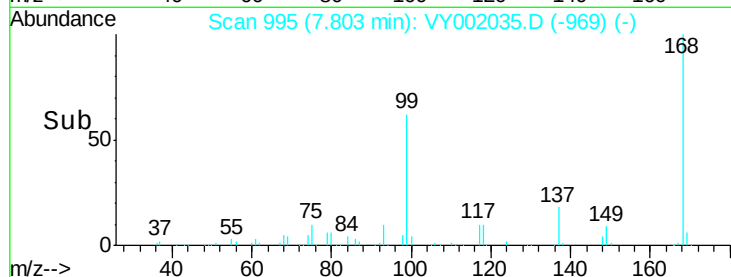
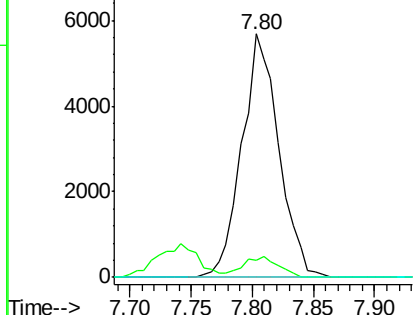
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.1   | 17.4  | 52.2# |
| 77      | 0.0   | 24.2  | 36.2# |



Abundance Ion 74.90 (74.60 to 75.60): VY001845.D (-1005) (-)

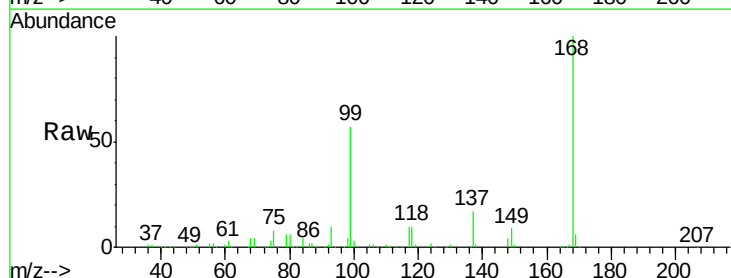
Ion 109.90 (109.60 to 110.60): VY001845.D (-1005) (-)

Ion 76.90 (76.60 to 77.60): VY001845.D (-1005) (-)



#38  
 Carbon Tetrachloride  
 Concen: 6.28 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.12 min  
 Lab File: VY002035.D  
 Acq: 20 Mar 2020 12:32

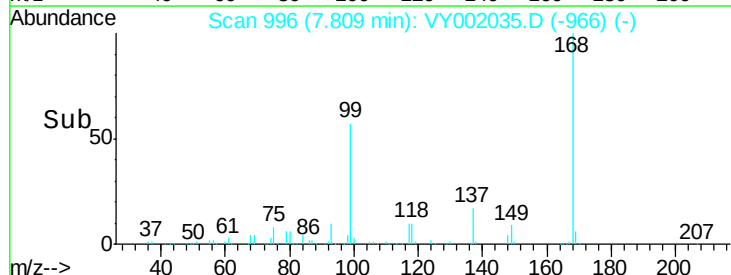
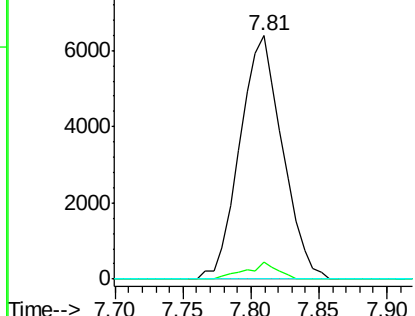
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.8   | 76.3  | 114.5# |
| 121     | 0.0   | 23.5  | 35.3#  |

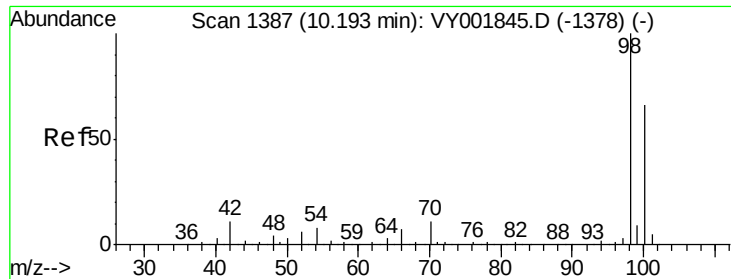


Abundance Ion 116.80 (116.50 to 117.50): VY001845.D (-1006) (-)

Ion 118.80 (118.50 to 119.50): VY001845.D (-1006) (-)

Ion 120.80 (120.50 to 121.50): VY001845.D (-1006) (-)





#50

Toluene-d8

Concen: 52.79 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY002035.D

Acq: 20 Mar 2020 12:32

Instrument :

MSVOA\_Y

ClientSampleId :

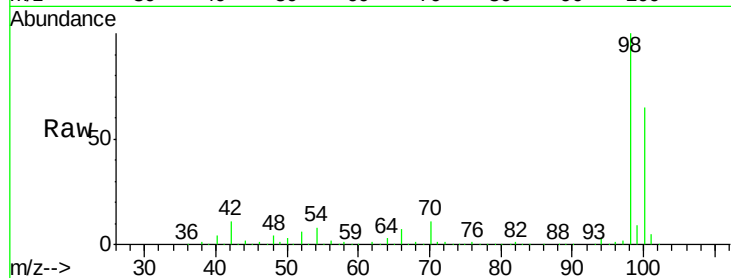
OK-01-031920

Tgt Ion: 98 Resp: 328903

Ion Ratio Lower Upper

98 100

100 65.4 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY001845.D (-1378) (-)

Ion 100.00 (99.70 to 100.70): VY001845.D (-1378) (-)

10.19

200000

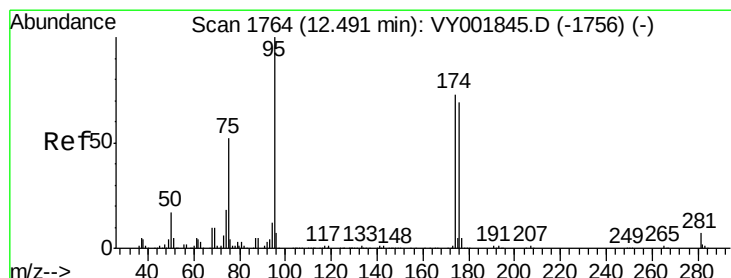
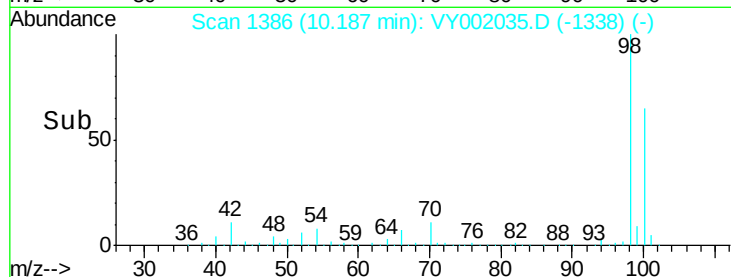
150000

100000

50000

0

Time--> 10.10 10.20 10.30



#62

4-Bromofluorobenzene

Concen: 49.77 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY002035.D

Acq: 20 Mar 2020 12:32

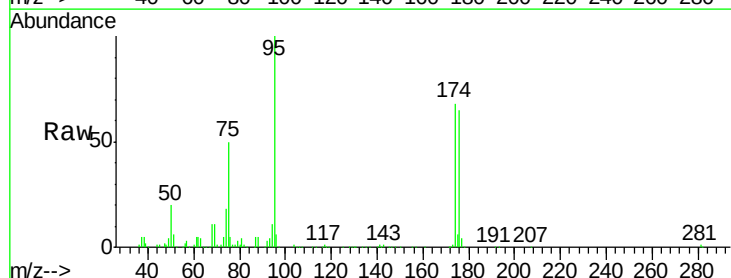
Tgt Ion: 95 Resp: 107826

Ion Ratio Lower Upper

95 100

174 71.9 0.0 145.0

176 69.6 0.0 137.4



Abundance Ion 94.90 (94.60 to 95.60): VY001845.D (-1756) (-)

Ion 173.80 (173.50 to 174.50): VY001845.D (-1756) (-)

Ion 175.80 (175.50 to 176.50): VY001845.D (-1756) (-)

12.49

80000

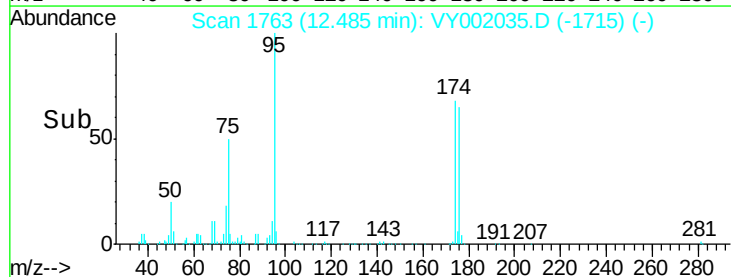
60000

40000

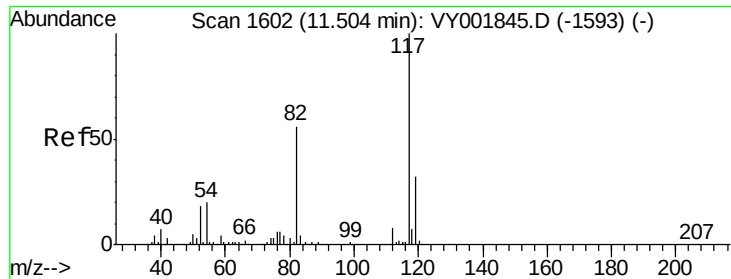
20000

0

Time--> 12.40 12.45 12.50 12.55



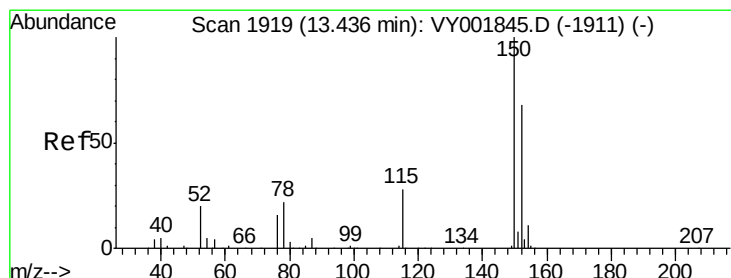
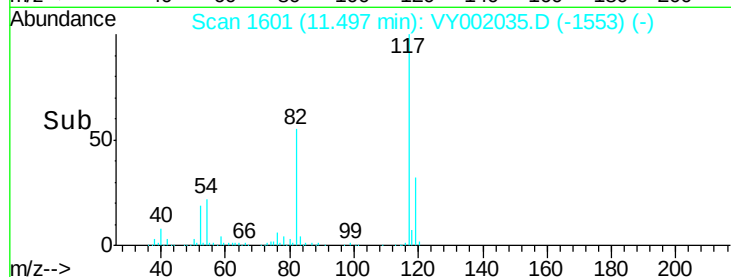
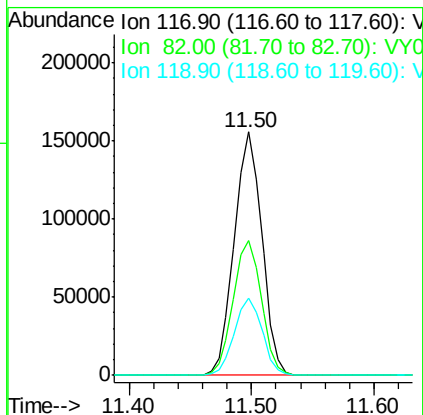
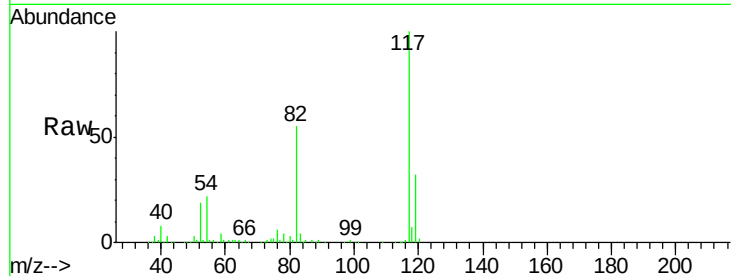




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VY002035.D  
Acq: 20 Mar 2020 12:32

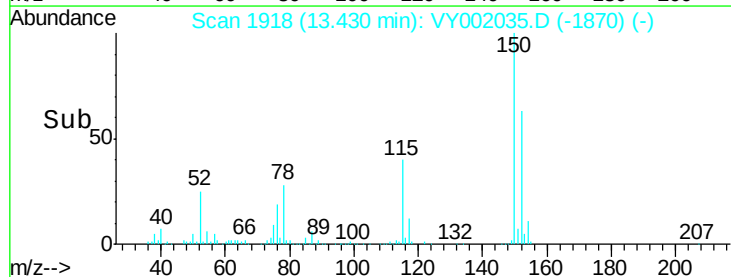
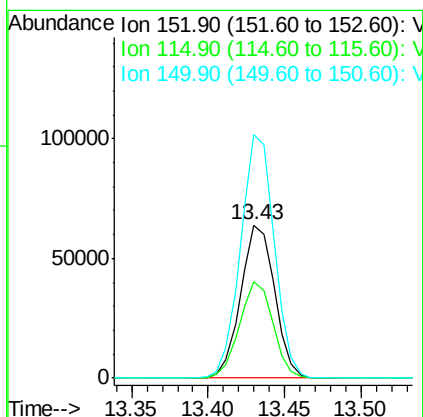
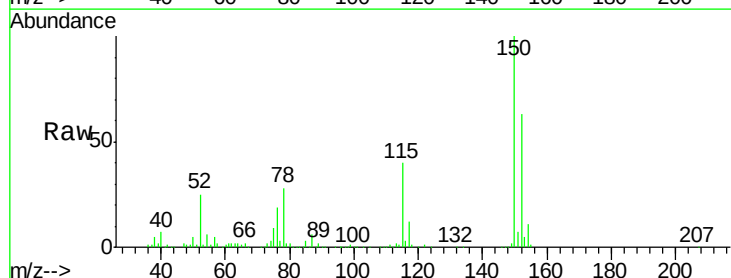
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OK-01-031920

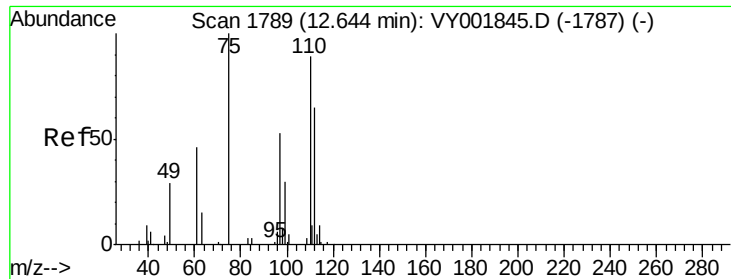
Tgt Ion:117 Resp: 243467  
Ion Ratio Lower Upper  
117 100  
82 55.3 44.5 66.7  
119 31.7 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. -0.01 min  
Lab File: VY002035.D  
Acq: 20 Mar 2020 12:32

Tgt Ion:152 Resp: 98545  
Ion Ratio Lower Upper  
152 100  
115 62.3 29.9 89.7  
150 158.1 0.0 340.6





#76

1,2,3-Trichloropropane

Concen: 47.03 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY002035.D

Acq: 20 Mar 2020 12:32

Instrument :

MSVOA\_Y

ClientSampleId :

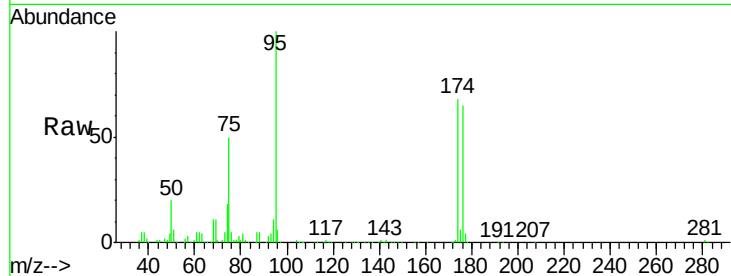
OK-01-031920

Tgt Ion: 75 Resp: 54996

Ion Ratio Lower Upper

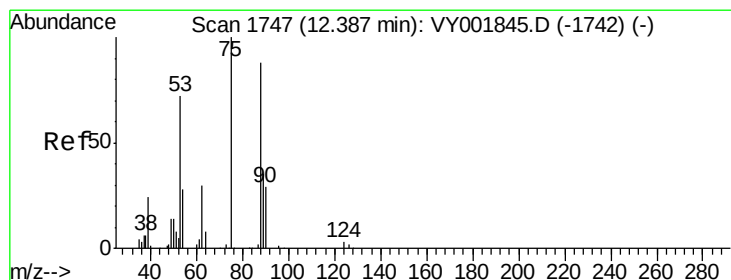
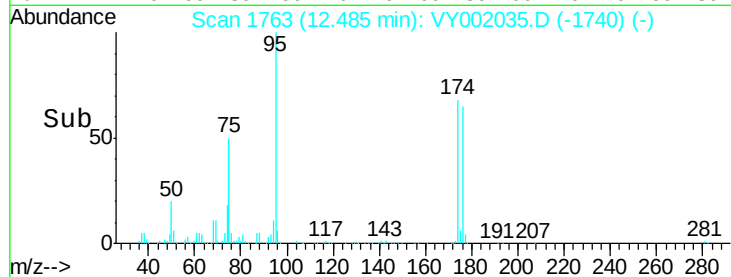
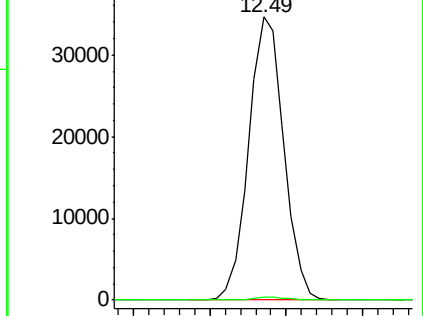
75 100

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: 95.00 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002035.D

Acq: 20 Mar 2020 12:32

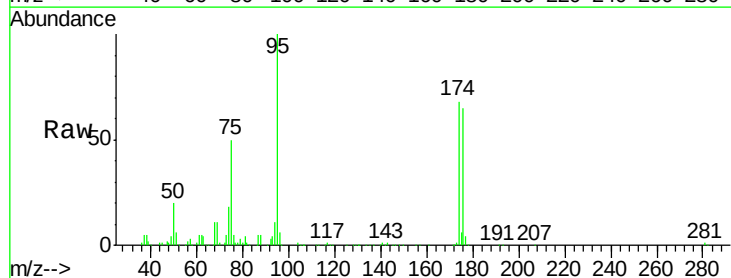
Tgt Ion: 75 Resp: 54996

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.0 36.0 54.0#



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

