

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030520\  
 Data File : VY001876.D  
 Acq On : 05 Mar 2020 13:06  
 Operator : SY/MD  
 Sample : L1783-01  
 Misc : 8.73G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Mar 06 04:37:30 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      | 7.82  | 168  | 106254   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 205732   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 95456    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 16742    | 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   | 71755    | 63.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 126.52% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 73226    | 65.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 130.36% |          |
| 50) Toluene-d8              | 10.19 | 98   | 199455   | 42.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.20%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 25385    | 15.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 30.82%  |          |

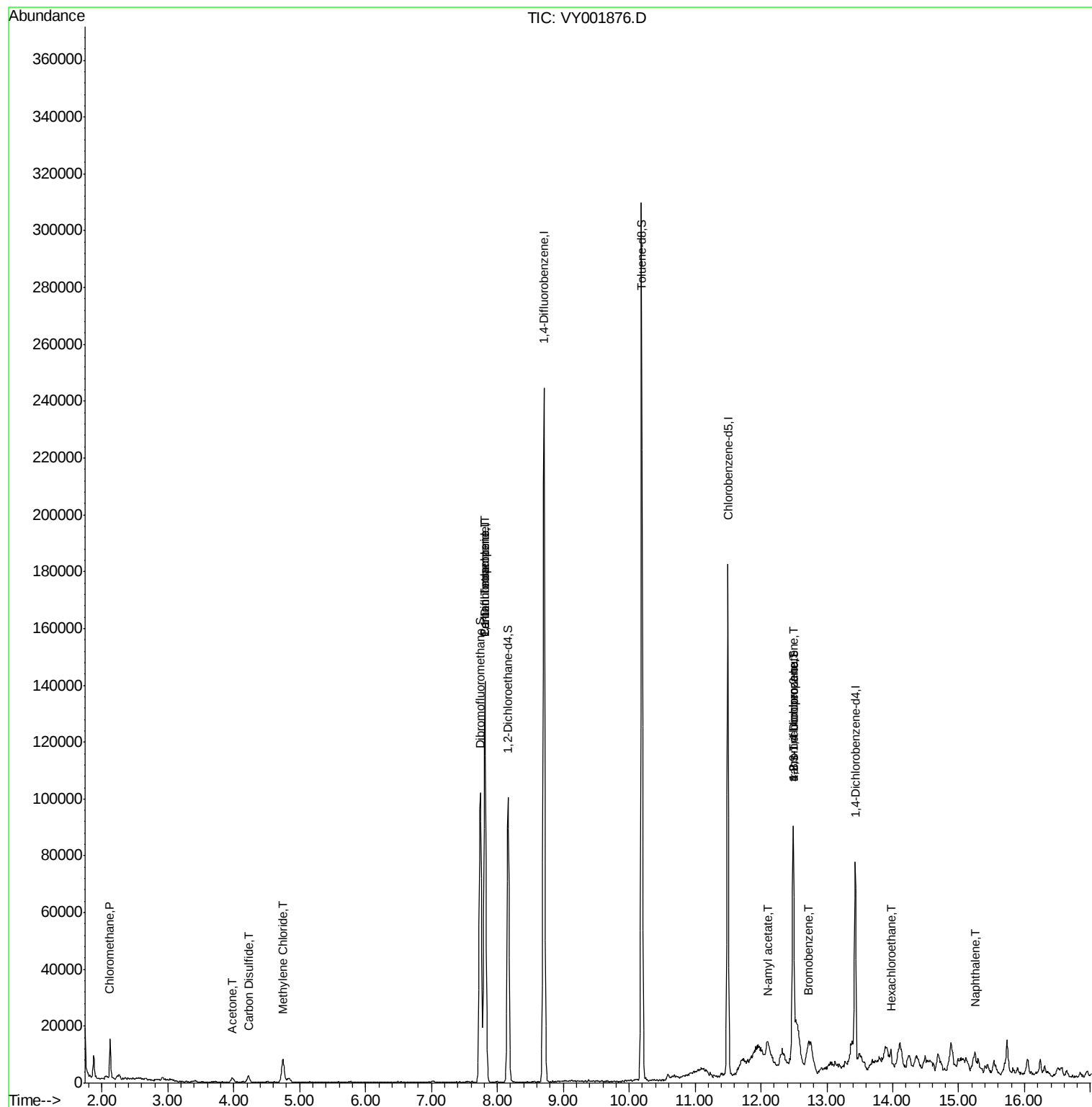
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.12  | 50   | 12474    | 9.433     | ug/l   | 93     |
| 5) Bromomethane                | 2.68  | 94   | 98       | Below Cal | #      | 50     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 21       | Below Cal | #      | 74     |
| 16) Acetone                    | 3.97  | 43   | 3000     | 9.080     | ug/l   | 93     |
| 17) Carbon Disulfide           | 4.22  | 76   | 4748     | 1.196     | ug/l   | 98     |
| 20) Methylene Chloride         | 4.74  | 84   | 5715     | 4.036     | ug/l # | 94     |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 9013     | 4.553     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 11241    | 6.647     | ug/l # | 15     |
| 74) N-amyl acetate             | 12.11 | 43   | 4162     | 10.596    | ug/l # | 49     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 12463    | 62.737    | ug/l # | 100    |
| 77) Bromobenzene               | 12.72 | 156  | 7957     | 29.386    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 12463    | 126.725   | ug/l # | 18     |
| 90) Hexachloroethane           | 13.98 | 117  | 270      | 1.288     | ug/l # | 18     |
| 95) Naphthalene                | 15.24 | 128  | 1860     | 2.508     | ug/l # | 66     |

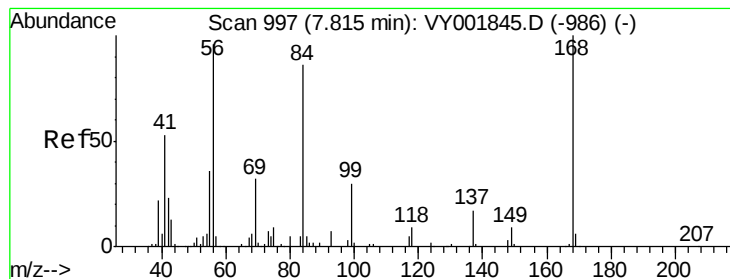
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY030520\  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Mar 06 04:37:30 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: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

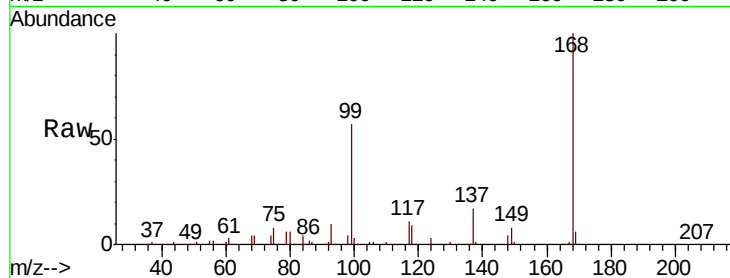
ClientSampled :

Tot Ion:168 Resp: 106254

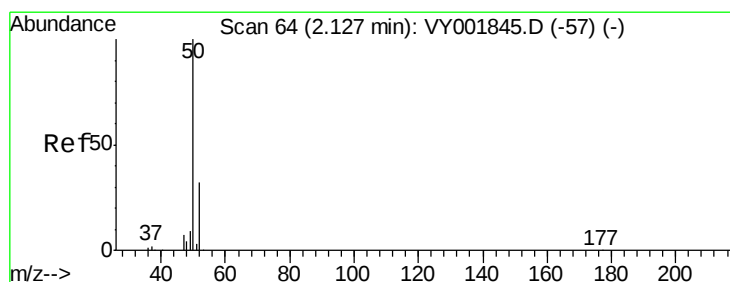
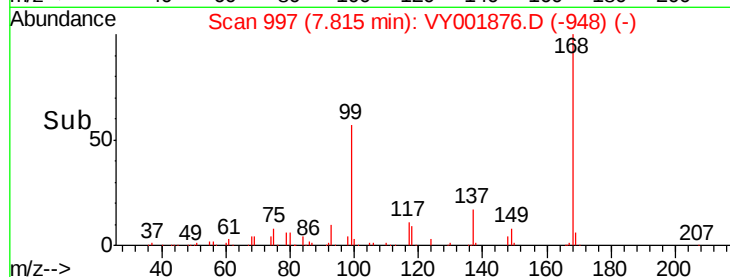
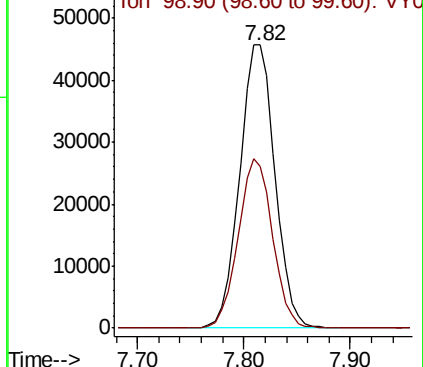
Ion Ratio Lower Upper

168 100

99 57.0 46.7 70.1



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



#3

Chloromethane

Concen: 9.433 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.01 min

Lab File: VY001876.D

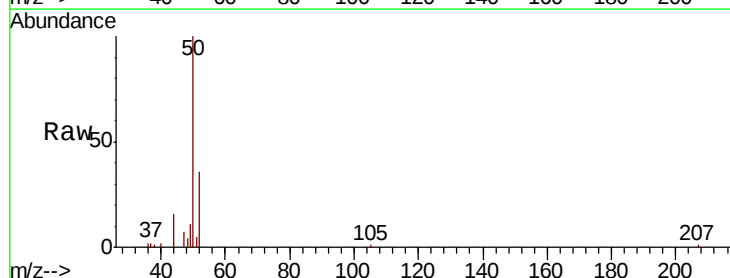
Acq: 05 Mar 2020 13:06

Tgt Ion: 50 Resp: 12474

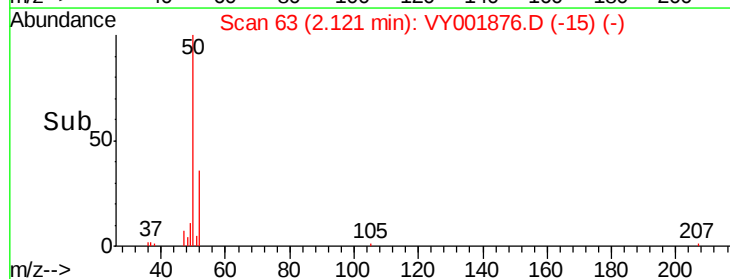
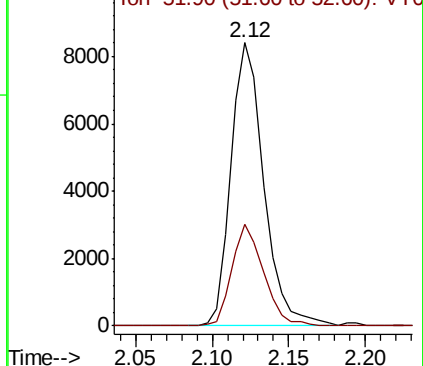
Ion Ratio Lower Upper

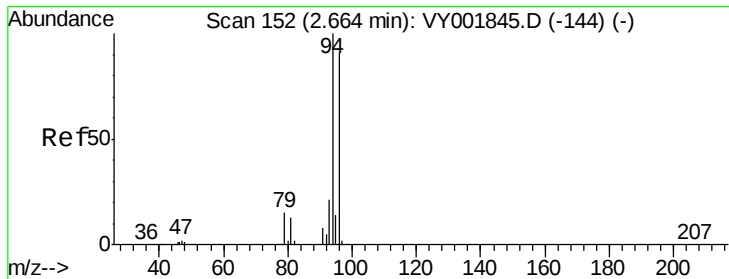
50 100

52 36.0 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VY001845.D (-57) (-)





#5

Bromomethane

Concen: Below Cal

RT: 2.68 min Scan# 154

Delta R.T. 0.01 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

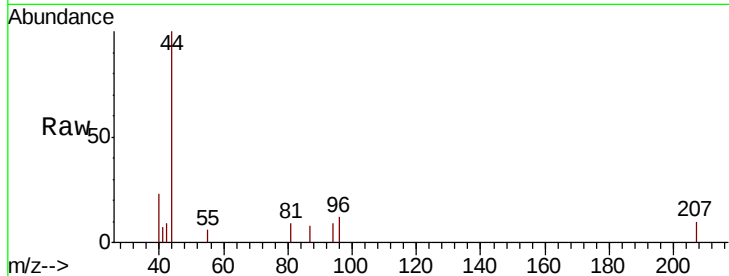
ClientSampled :

Tot Ion: 94 Resp: 98

Ion Ratio Lower Upper

94 100

96 138.8 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

120

100

80

60

40

20

0

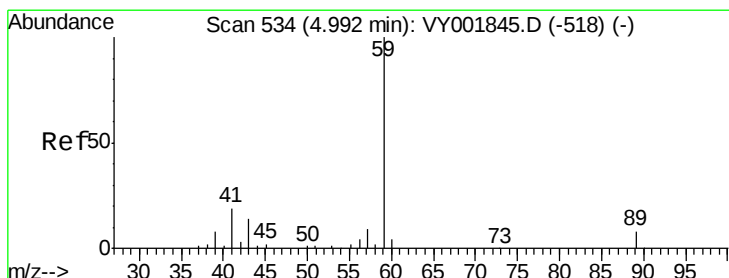
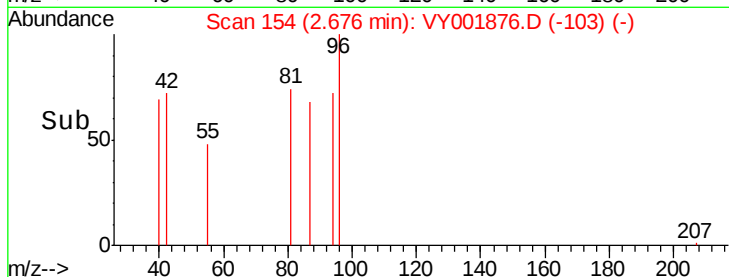
2.64

2.66

2.68

2.70

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.96 min Scan# 528

Delta R.T. -0.04 min

Lab File: VY001876.D

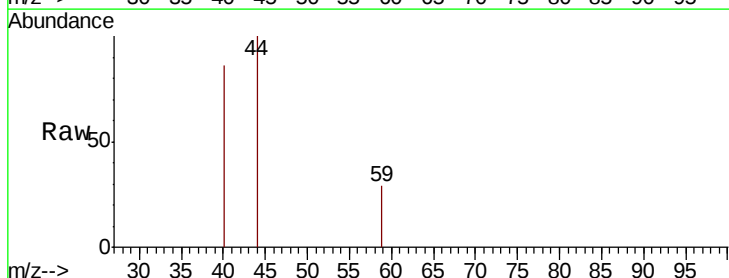
Acq: 05 Mar 2020 13:06

Tgt Ion: 59 Resp: 21

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

60

40

20

0

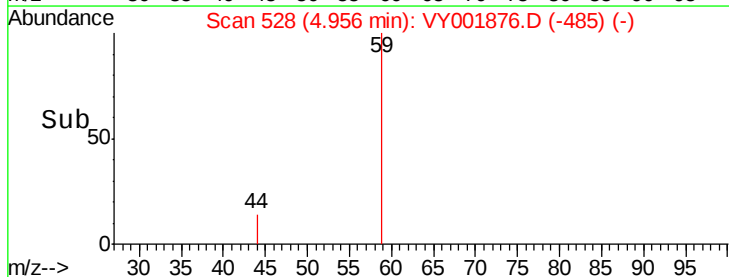
4.94

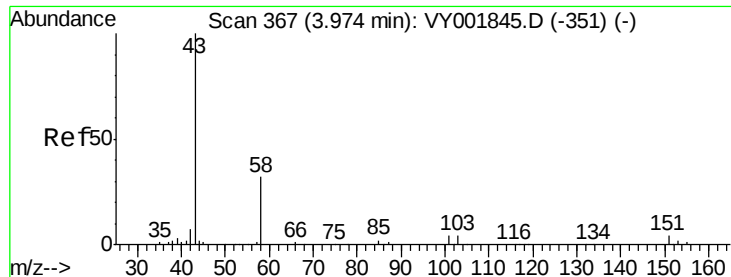
4.95

4.96

4.97

Time-->





#16

Acetone

Concen: 9.080 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

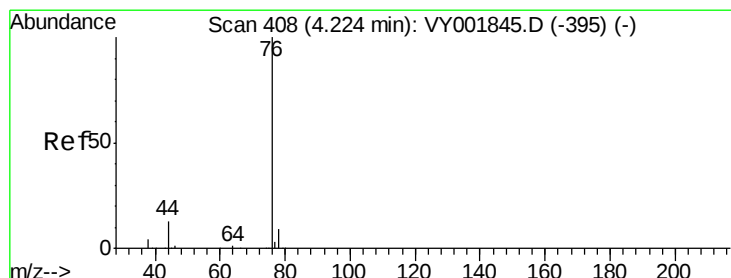
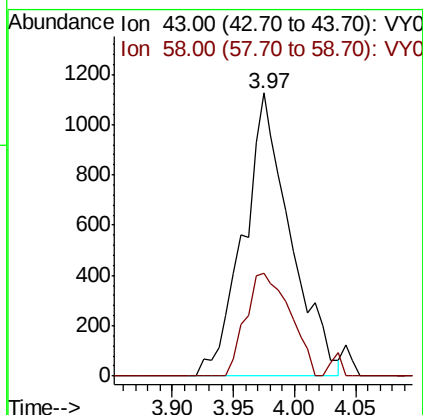
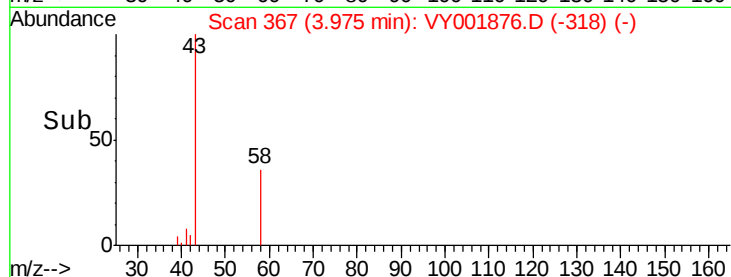
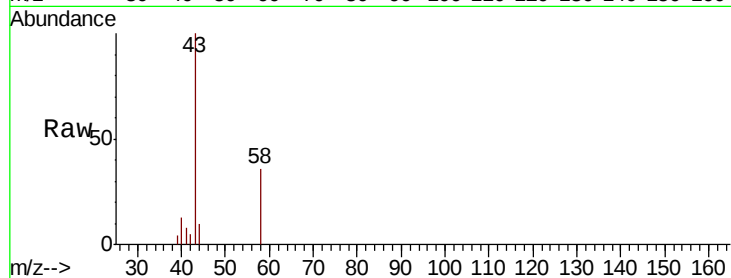
ClientSampled :

Tot Ion: 43 Resp: 3000

Ion Ratio Lower Upper

43 100

58 36.2 25.9 38.9



#17

Carbon Disulfide

Concen: 1.196 ug/l

RT: 4.22 min Scan# 408

Delta R.T. 0.00 min

Lab File: VY001876.D

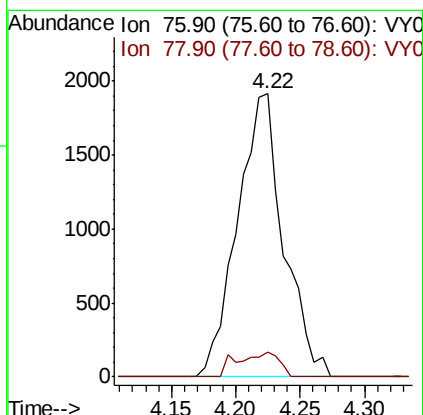
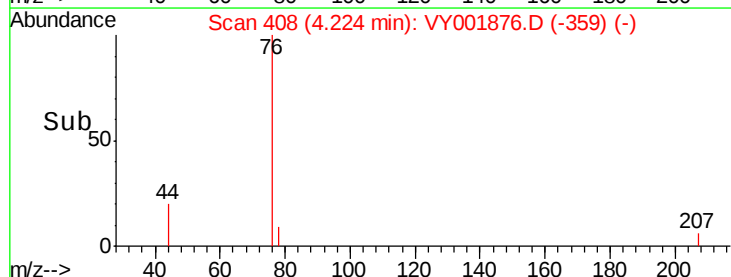
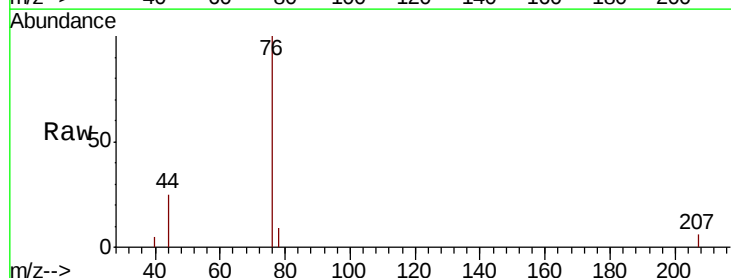
Acq: 05 Mar 2020 13:06

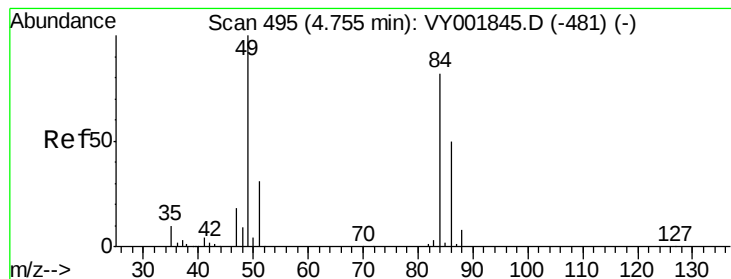
Tgt Ion: 76 Resp: 4748

Ion Ratio Lower Upper

76 100

78 8.6 7.4 11.2





#20

Methylene Chloride

Concen: 4.036 ug/l

RT: 4.74 min Scan# 493

Delta R.T. -0.01 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

ClientSampleId :

Tot Ion: 84 Resp: 5715

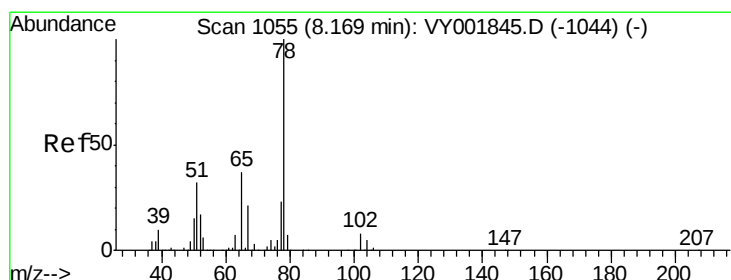
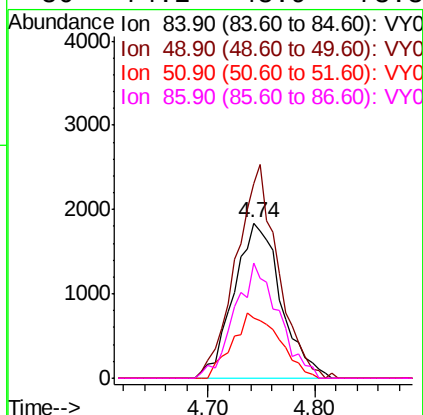
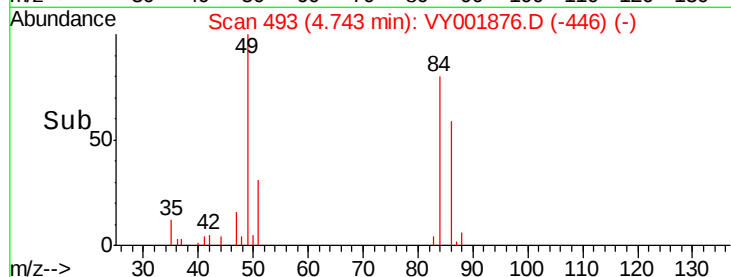
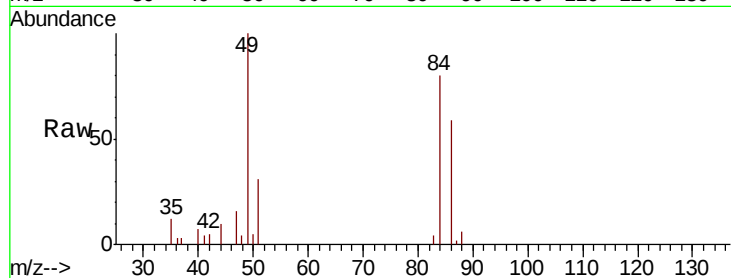
Ion Ratio Lower Upper

84 100

49 125.1 98.2 147.2

51 38.6 30.2 45.2

86 74.2 48.9 73.3#



#33

1,2-Dichloroethane-d4

Concen: 63.257 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001876.D

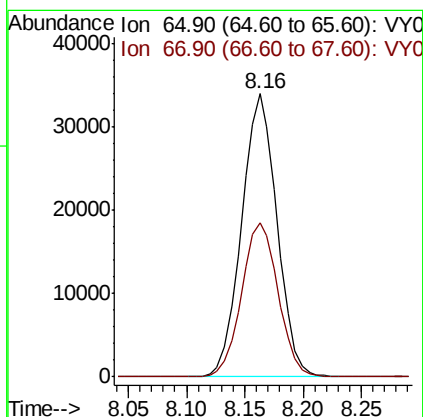
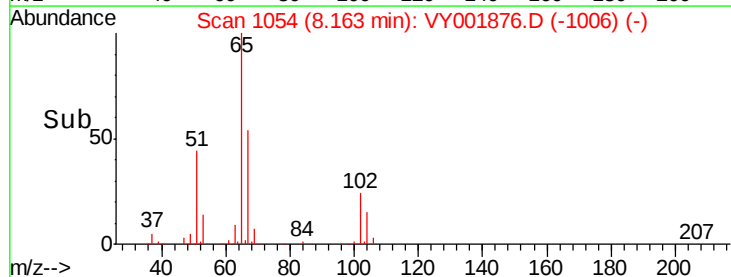
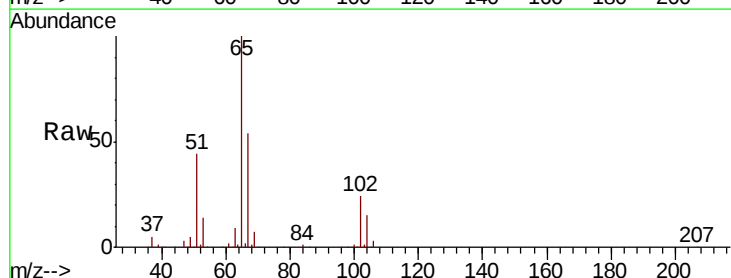
Acq: 05 Mar 2020 13:06

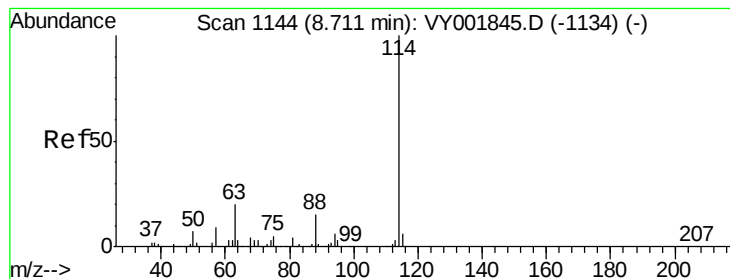
Tgt Ion: 65 Resp: 71755

Ion Ratio Lower Upper

65 100

67 56.2 0.0 110.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :  
MSVOA\_Y  
ClientSampled :

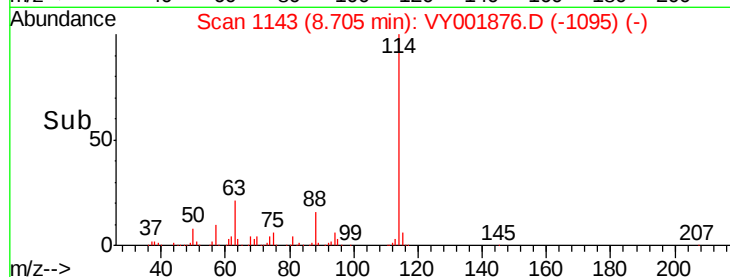
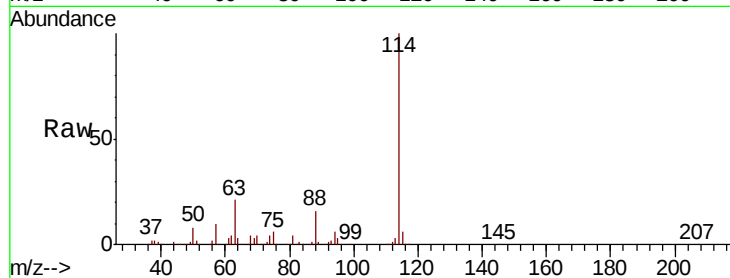
Tot Ion:114 Resp: 205732

Ion Ratio Lower Upper

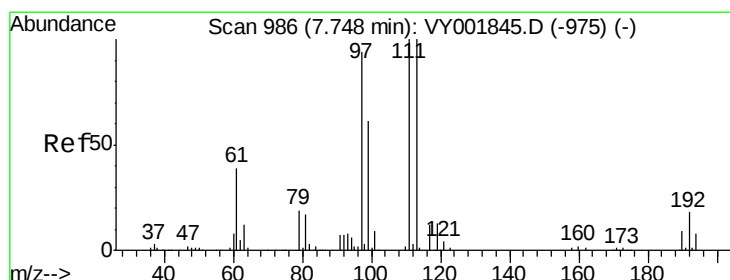
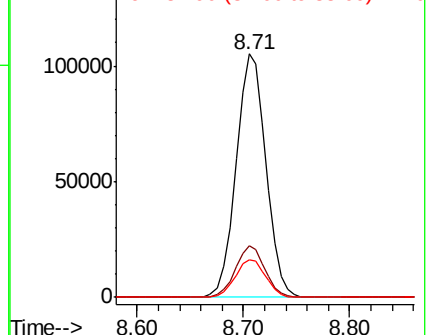
114 100

63 21.5 0.0 39.4

88 15.6 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: 65.183 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

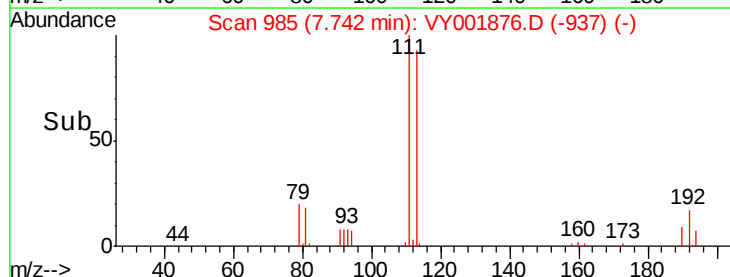
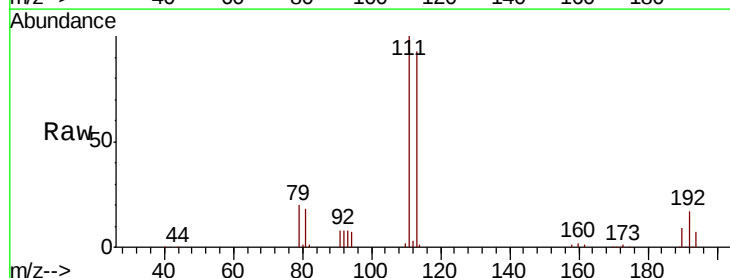
Tgt Ion:113 Resp: 73226

Ion Ratio Lower Upper

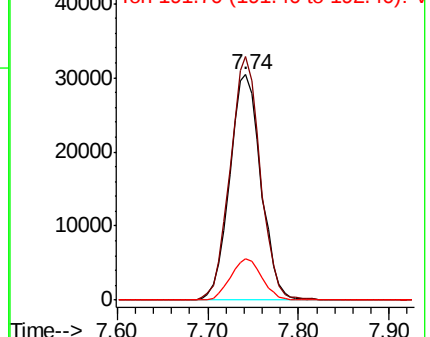
113 100

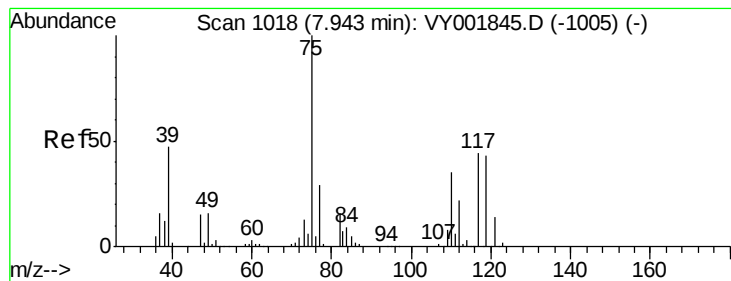
111 104.4 81.8 122.8

192 18.3 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: 4.553 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.13 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

ClientSampled :

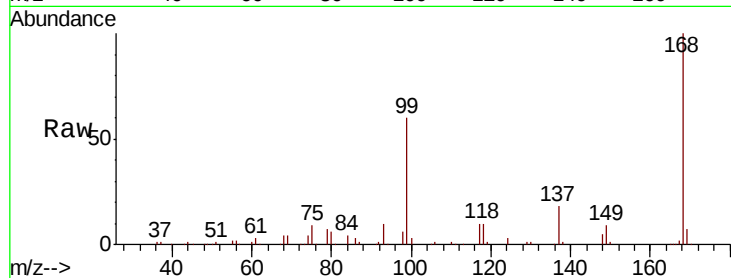
Tot Ion: 75 Resp: 9013

Ion Ratio Lower Upper

75 100

110 8.8 17.4 52.2#

77 0.0 24.2 36.2#

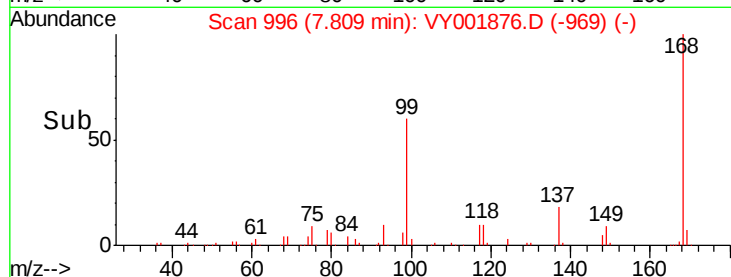


Abundance Ion 74.90 (74.60 to 75.60): VY001845.D (-1005) (-)

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

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

Time--> 7.70 7.75 7.80 7.85 7.90

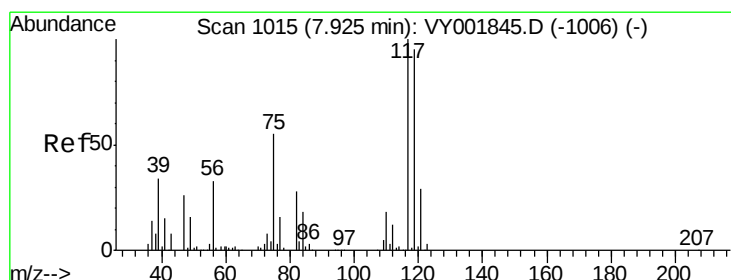


Abundance Ion 74.90 (74.60 to 75.60): VY001876.D (-969) (-)

Ion 109.90 (109.60 to 110.60): VY001876.D (-969) (-)

Ion 76.90 (76.60 to 77.60): VY001876.D (-969) (-)

Time--> 7.70 7.75 7.80 7.85 7.90



#38

Carbon Tetrachloride

Concen: 6.647 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.11 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

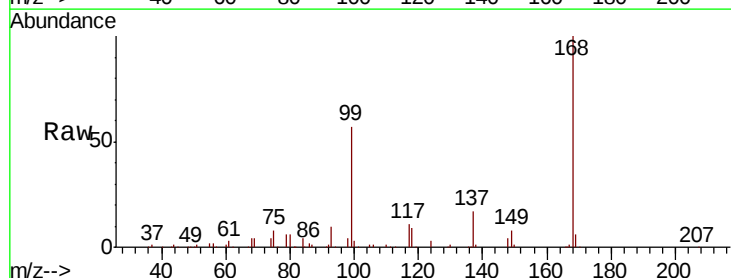
Tgt Ion: 117 Resp: 11241

Ion Ratio Lower Upper

117 100

119 3.3 76.3 114.5#

121 0.0 23.5 35.3#

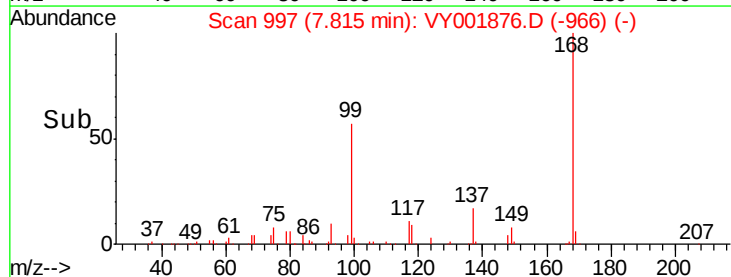


Abundance Ion 116.80 (116.50 to 117.50): VY001845.D (-1006) (-)

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

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

Time--> 7.70 7.75 7.80 7.85 7.90

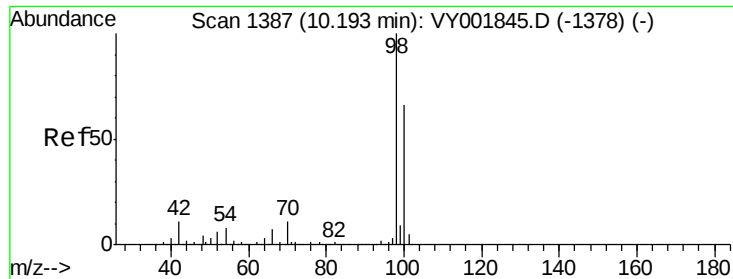


Abundance Ion 116.80 (116.50 to 117.50): VY001876.D (-966) (-)

Ion 118.80 (118.50 to 119.50): VY001876.D (-966) (-)

Ion 120.80 (120.50 to 121.50): VY001876.D (-966) (-)

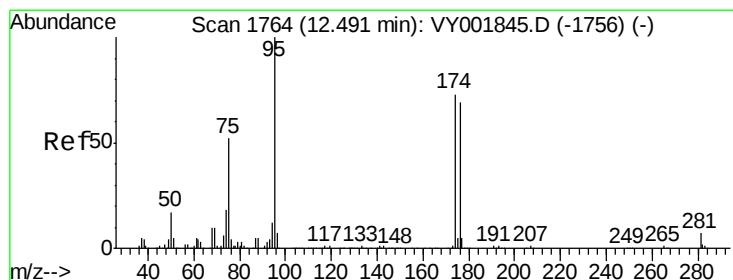
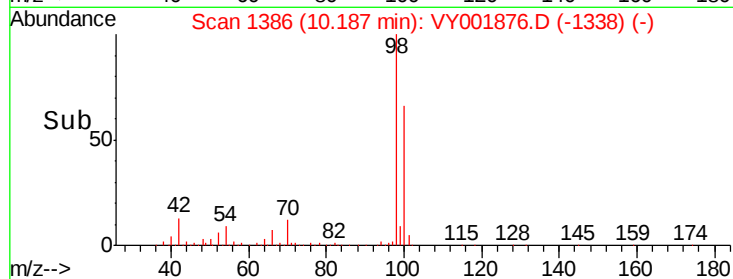
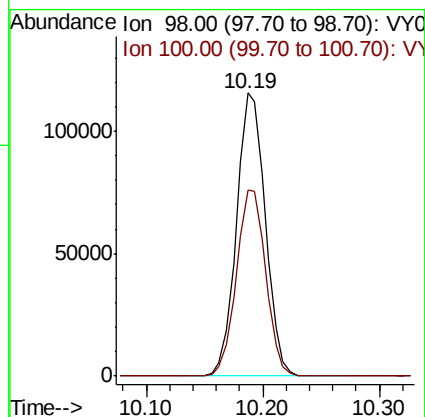
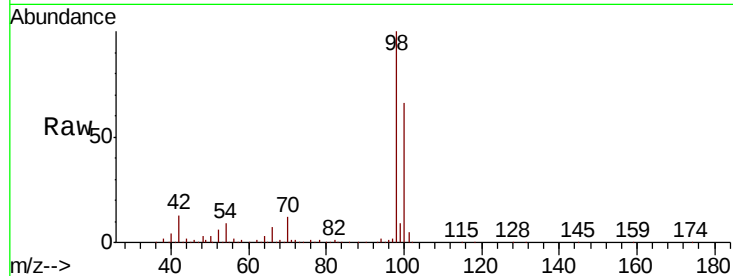
Time--> 7.70 7.75 7.80 7.85 7.90



#50  
Toluene-d8  
Concen: 42.104 ug/l  
RT: 10.19 min Scan# 1386  
Delta R.T. -0.01 min  
Lab File: VY001876.D  
Acq: 05 Mar 2020 13:06

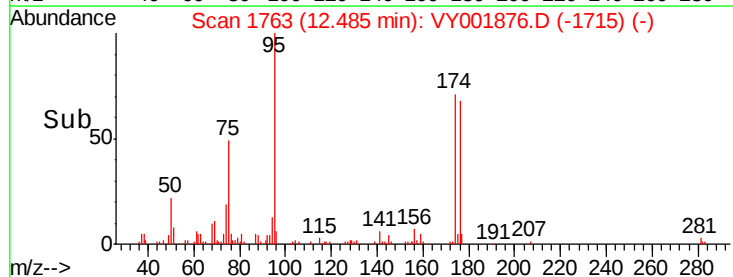
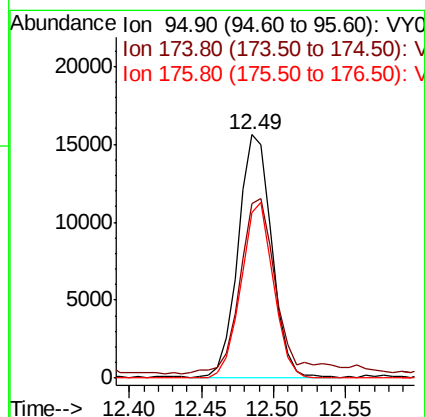
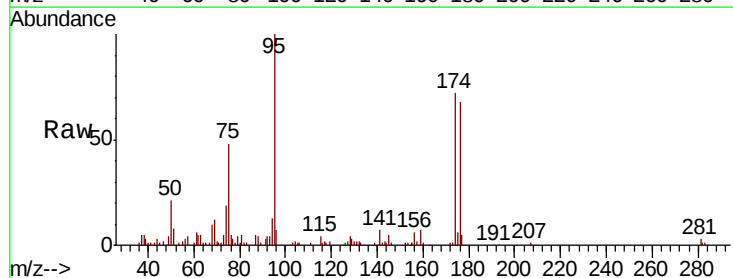
Instrument :  
MSVOA\_Y  
ClientSampled :

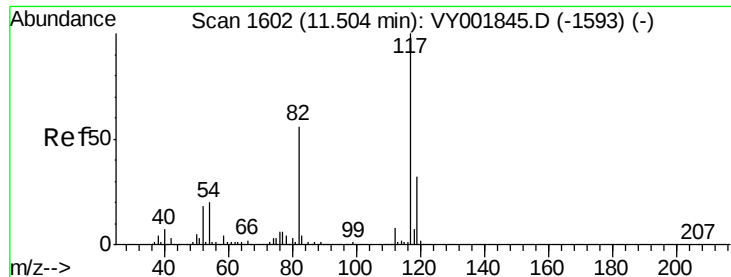
Tot Ion: 98 Resp: 199455  
Ion Ratio Lower Upper  
98 100  
100 66.9 53.0 79.4



#62  
4-Bromofluorobenzene  
Concen: 15.411 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. -0.01 min  
Lab File: VY001876.D  
Acq: 05 Mar 2020 13:06

Tgt Ion: 95 Resp: 25385  
Ion Ratio Lower Upper  
95 100  
174 80.8 0.0 145.0  
176 68.7 0.0 137.4

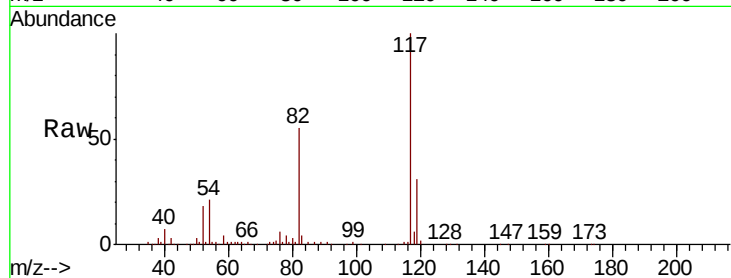




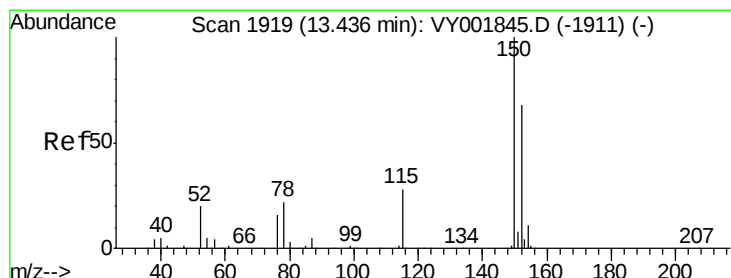
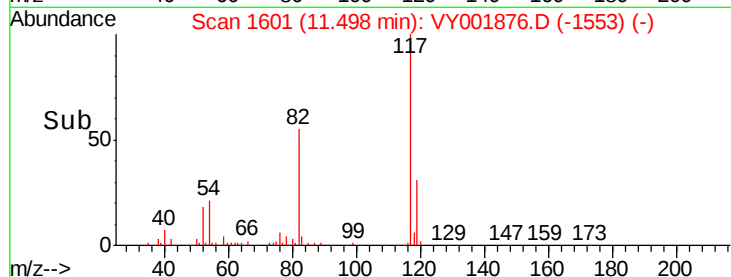
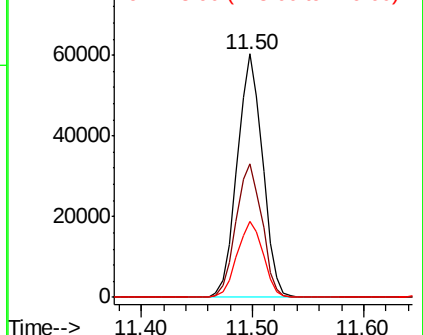
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VY001876.D  
Acq: 05 Mar 2020 13:06

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.9  | 44.5  | 66.7  |
| 119     | 31.1  | 25.7  | 38.5  |

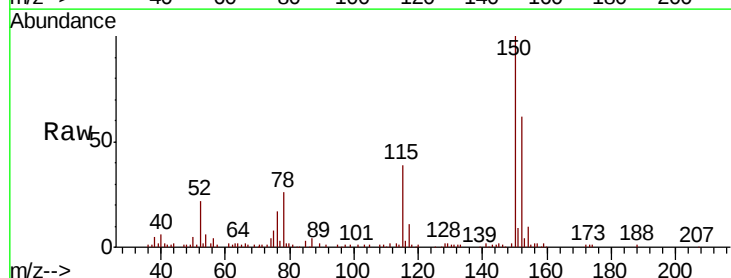


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

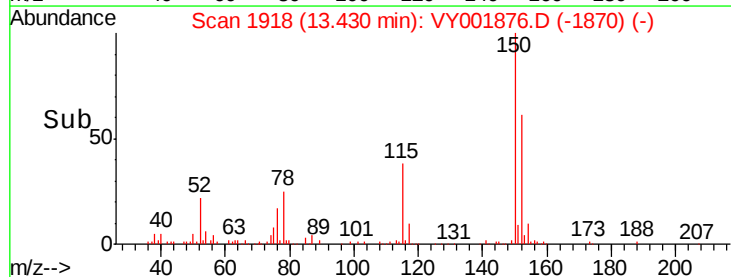
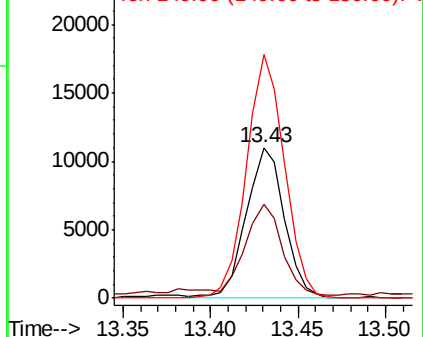


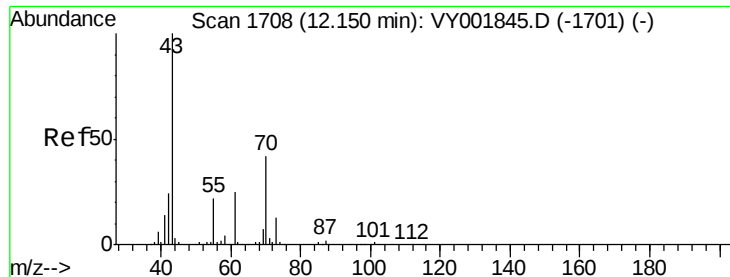
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. -0.01 min  
Lab File: VY001876.D  
Acq: 05 Mar 2020 13:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.8  | 29.9  | 89.7  |
| 150     | 159.8 | 0.0   | 340.6 |



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





#74

N-amvl acetate

Concen: 10.596 ug/l

RT: 12.11 min Scan# 1701

Delta R.T. -0.04 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

ClientSampleId :

Tot Ion: 43 Resp: 4162

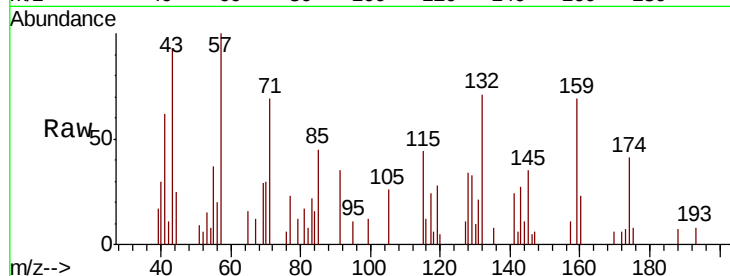
Ion Ratio Lower Upper

43 100

70 5.2 34.7 52.1#

55 40.3 18.2 27.4#

61 0.0 20.1 30.1#

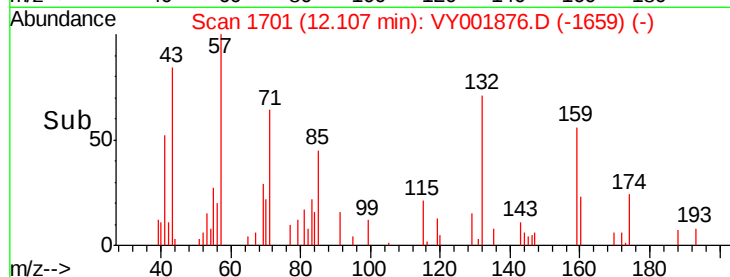
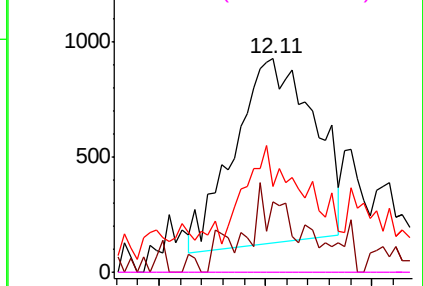


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#76

1,2,3-Trichloropropane

Concen: 62.737 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001876.D

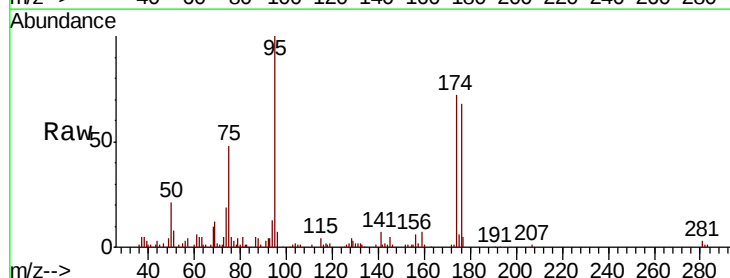
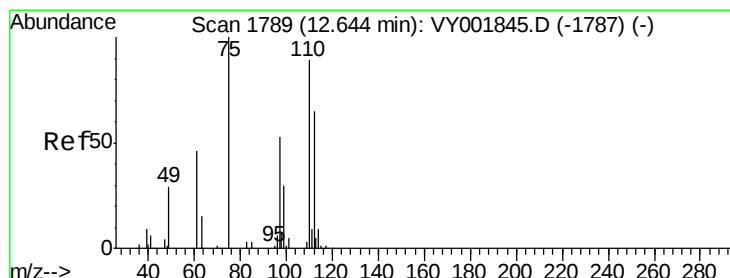
Acq: 05 Mar 2020 13:06

Tgt Ion: 75 Resp: 12463

Ion Ratio Lower Upper

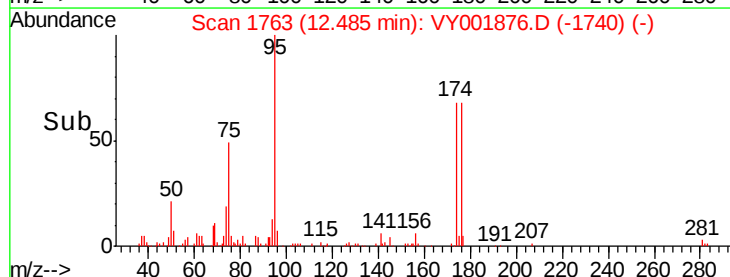
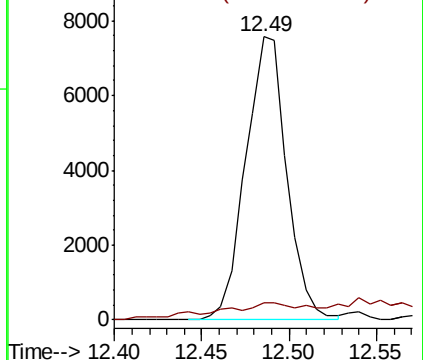
75 100

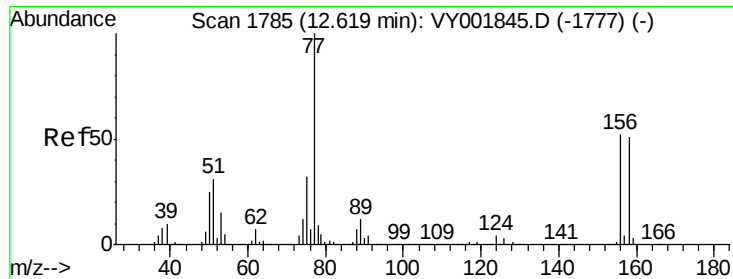
77 6.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 29.386 ug/l

RT: 12.72 min Scan# 1801

Delta R.T. 0.10 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

ClientSampleId :

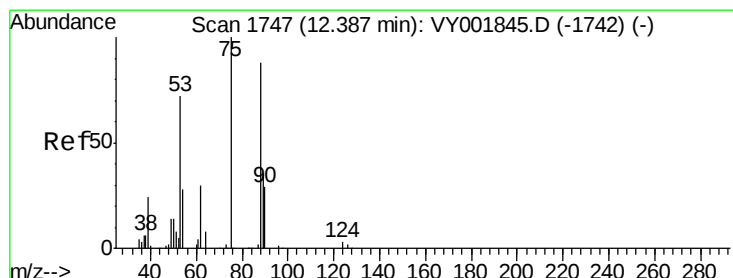
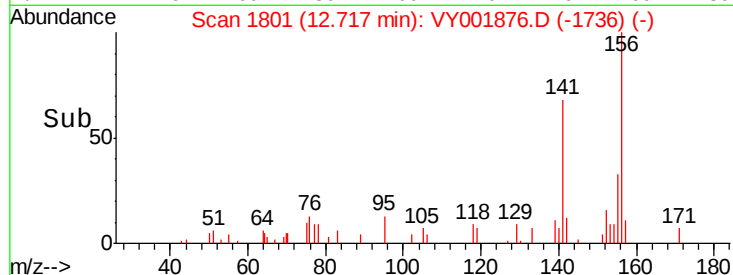
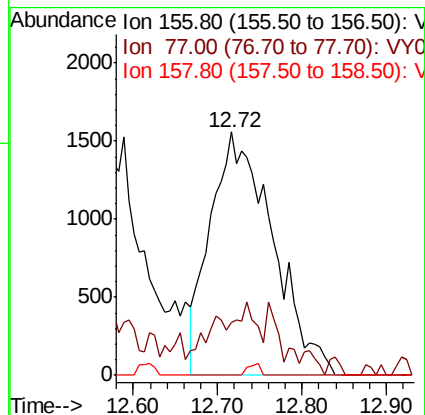
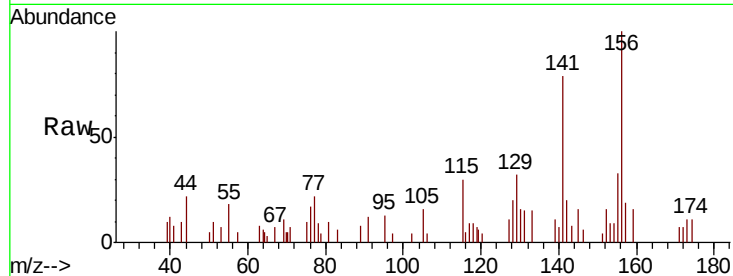
Tot Ion:156 Resp: 7957

Ion Ratio Lower Upper

156 100

77 4.0 109.0 327.0#

158 0.0 48.9 146.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 126.725 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

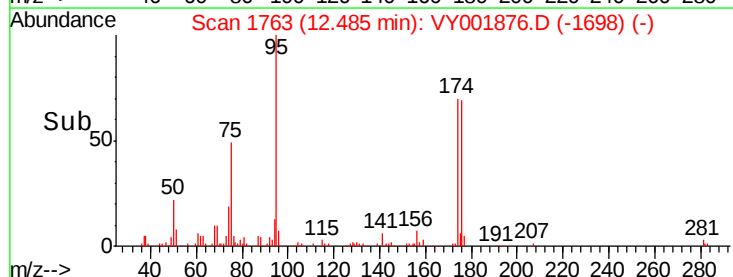
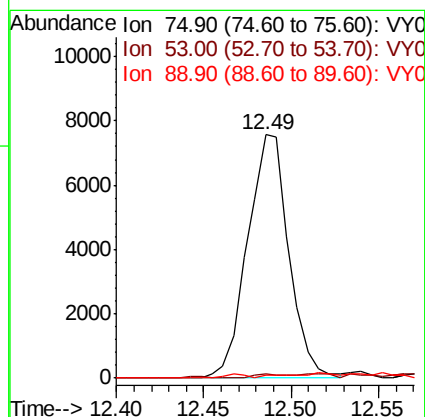
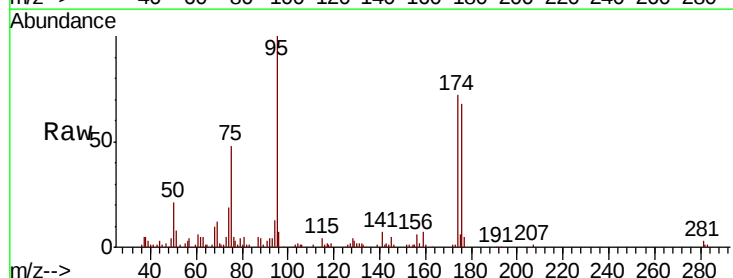
Tgt Ion: 75 Resp: 12463

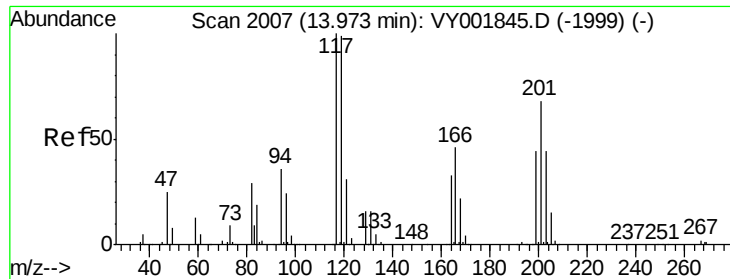
Ion Ratio Lower Upper

75 100

53 1.1 65.4 98.0#

89 0.8 36.0 54.0#





#90

Hexachloroethane

Concen: 1.288 ug/l

RT: 13.98 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

Instrument :

MSVOA\_Y

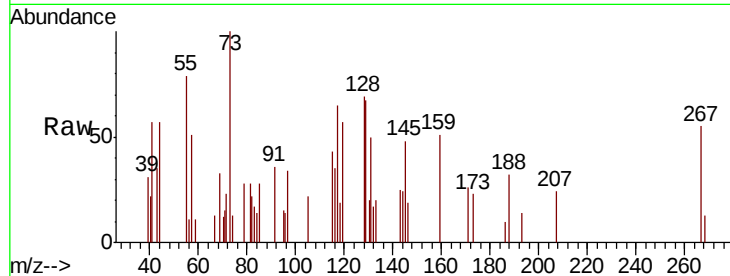
ClientSampled :

Tot Ion:117 Resp: 270

Ion Ratio Lower Upper

117 100

201 0.0 32.5 97.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.98

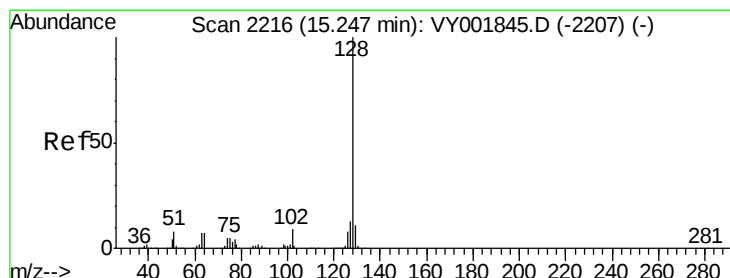
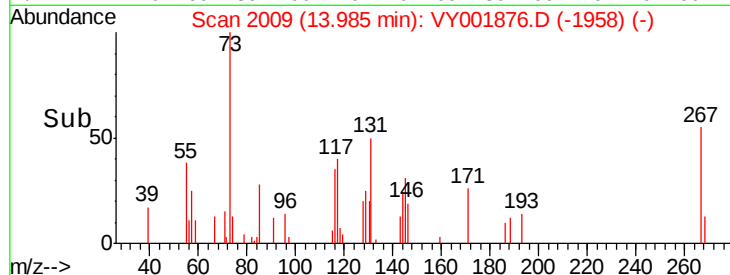
300

200

100

0

Time-->



#95

Naphthalene

Concen: 2.508 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001876.D

Acq: 05 Mar 2020 13:06

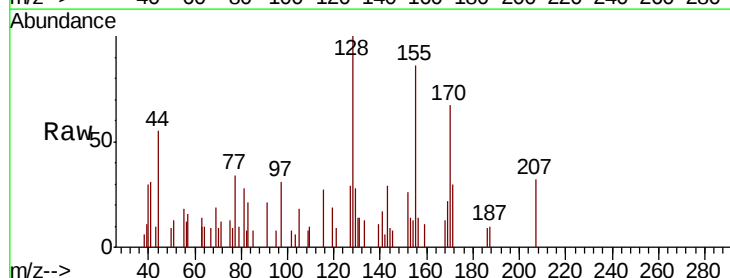
Tgt Ion:128 Resp: 1860

Ion Ratio Lower Upper

128 100

127 24.8 10.1 15.1#

129 24.8 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.24

1200

1000

800

600

400

200

0

Time-->

