

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD012920\  
 Data File : VD064995.D  
 Acq On : 29 Jan 2020 14:59  
 Operator : VA/SY  
 Sample : L1310-01  
 Misc : 8.11G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CTY-SB-02-79-80

Quant Time: Jan 29 15:37:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 13:45:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 516185   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 814569   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 784734   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 363394   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 242868   | 49.05 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.10%  |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 251415   | 49.12 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.24%  |      |
| 50) Toluene-d8              | 10.34  | 98  | 994730   | 50.35 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.70% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 320156   | 52.95 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.90% |      |

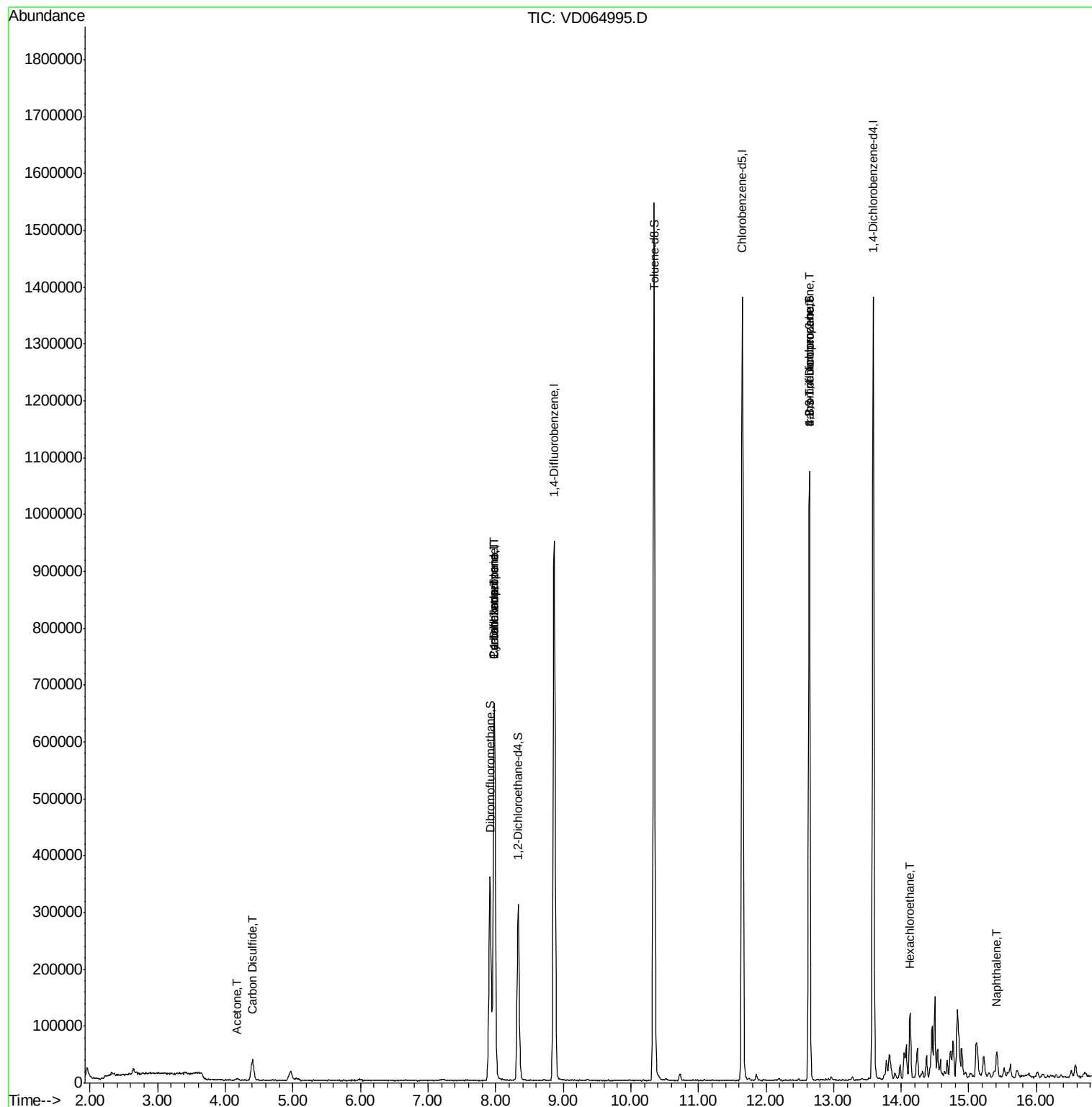
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 16) Acetone                    | 4.17  | 43   | 4631     | 16.98     | ug/l  | # 82   |
| 17) Carbon Disulfide           | 4.40  | 76   | 77067    | 5.21      | ug/l  | 100    |
| 20) Methylene Chloride         | 4.96  | 84   | 13243    | Below Cal | #     | 88     |
| 31) Cyclohexane                | 7.97  | 56   | 12167    | 1.41      | ug/l  | # 45   |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 38706    | 4.93      | ug/l  | # 50   |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 50802    | 6.12      | ug/l  | # 16   |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 169938   | 56.34     | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 169938   | 120.30    | ug/l  | # 9    |
| 90) Hexachloroethane           | 14.13 | 117  | 6971     | 1.58      | ug/l  | # 8    |
| 95) Naphthalene                | 15.41 | 128  | 35029    | 3.17      | ug/l  | 98     |

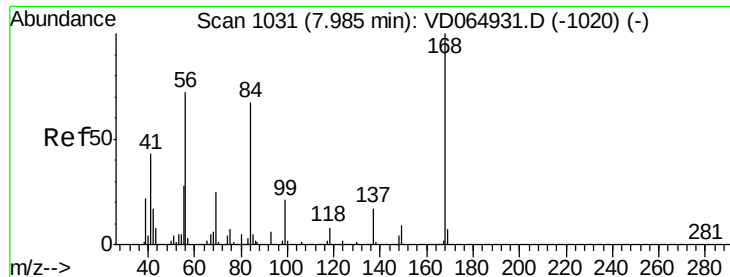
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD012920\  
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Sample : L1310-01  
Misc : 8.11G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
CTY-SB-02-79-80

Quant Time: Jan 29 15:37:24 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D012320S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 13:45:59 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

Instrument :

MSVOA\_D

ClientSampleId :

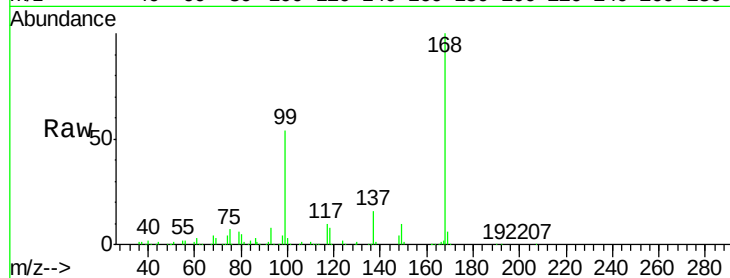
CTY-SB-02-79-80

Tgt Ion:168 Resp: 516185

Ion Ratio Lower Upper

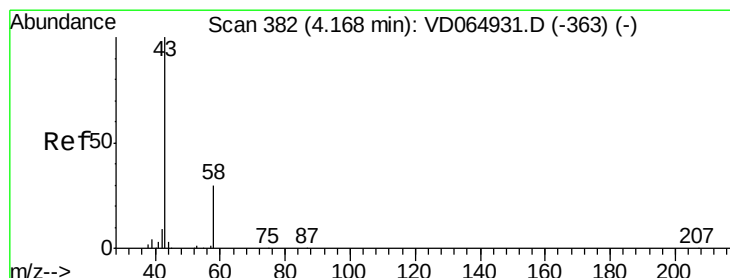
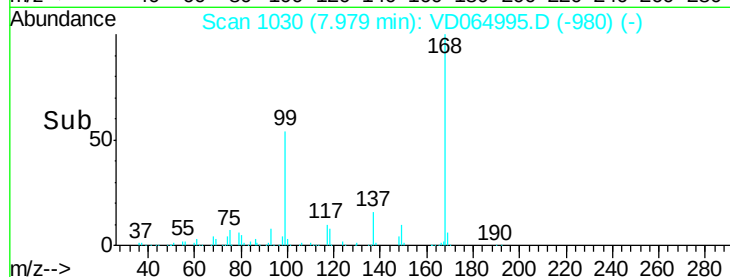
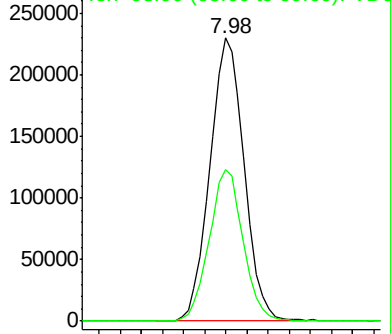
168 100

99 53.6 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 16.98 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064995.D

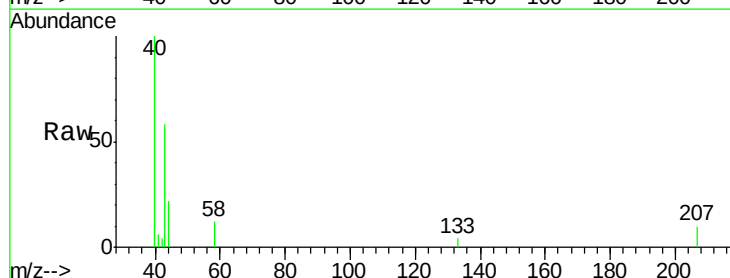
Acq: 29 Jan 2020 14:59

Tgt Ion: 43 Resp: 4631

Ion Ratio Lower Upper

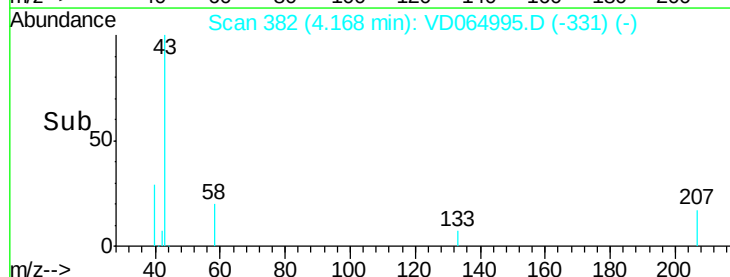
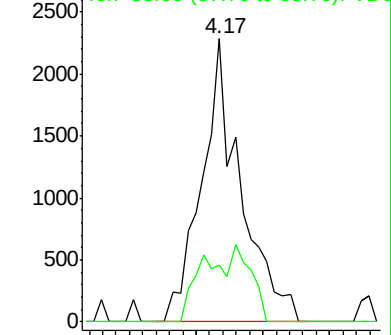
43 100

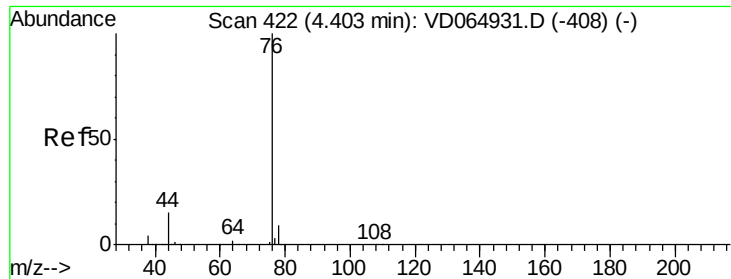
58 20.2 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

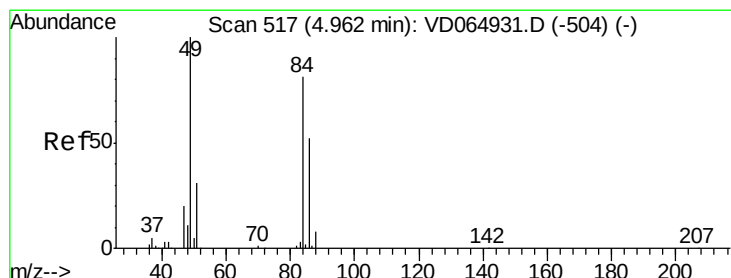
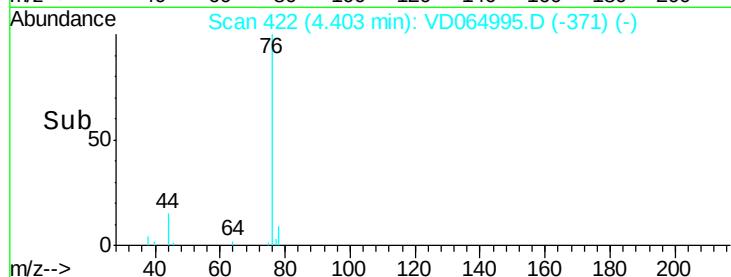
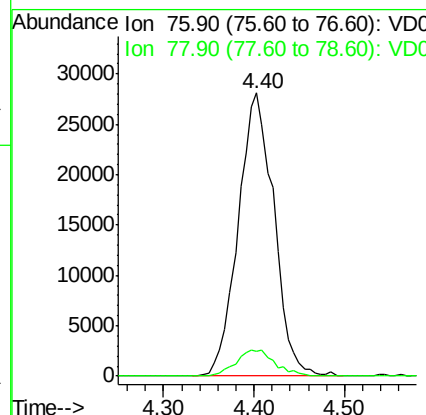
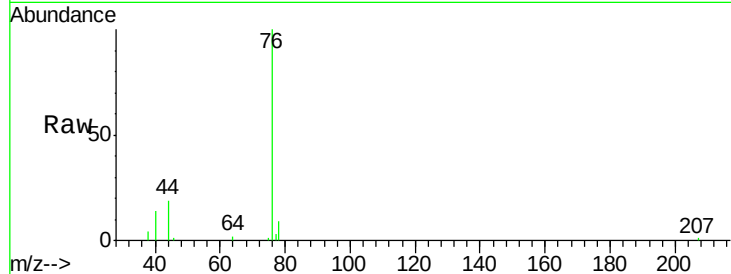




#17  
Carbon Disulfide  
Concen: 5.21 ug/l  
RT: 4.40 min Scan# 422  
Delta R.T. 0.00 min  
Lab File: VD064995.D  
Acq: 29 Jan 2020 14:59

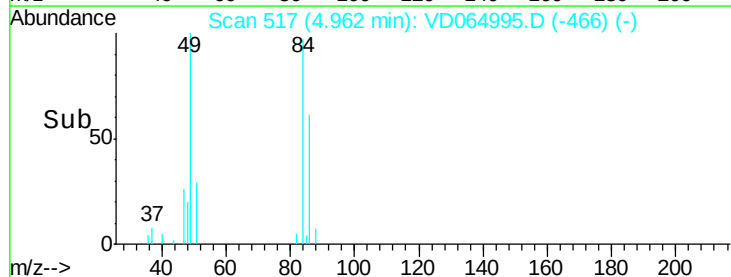
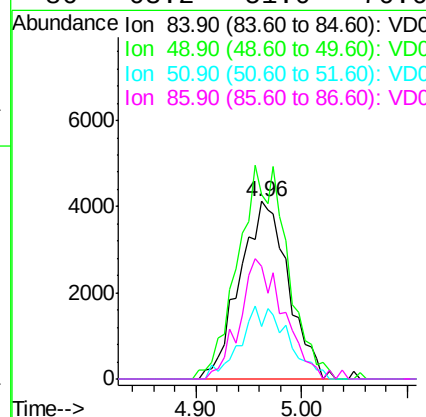
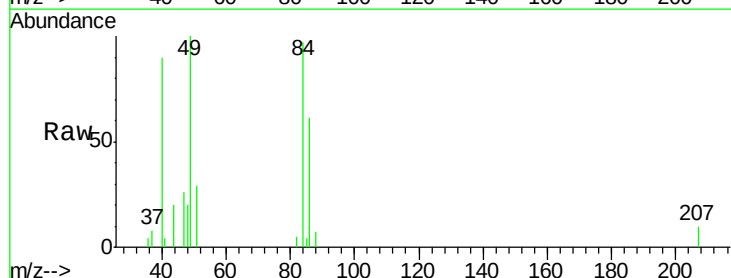
Instrument :  
MSVOA\_D  
ClientSampleId :  
CTY-SB-02-79-80

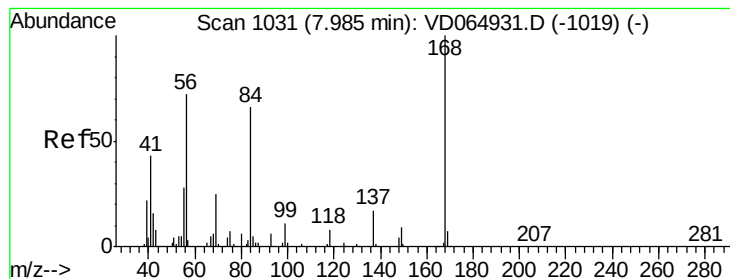
Tgt Ion: 76 Resp: 77067  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.1 10.7



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD064995.D  
Acq: 29 Jan 2020 14:59

Tgt Ion: 84 Resp: 13243  
Ion Ratio Lower Upper  
84 100  
49 103.6 98.4 147.6  
51 29.7 30.8 46.2#  
86 63.2 51.0 76.6





#31

Cyclohexane

Concen: 1.41 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

Instrument :

MSVOA\_D

ClientSampleId :

CTY-SB-02-79-80

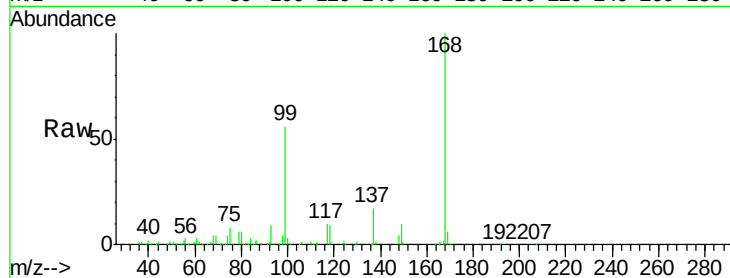
Tgt Ion: 56 Resp: 12167

Ion Ratio Lower Upper

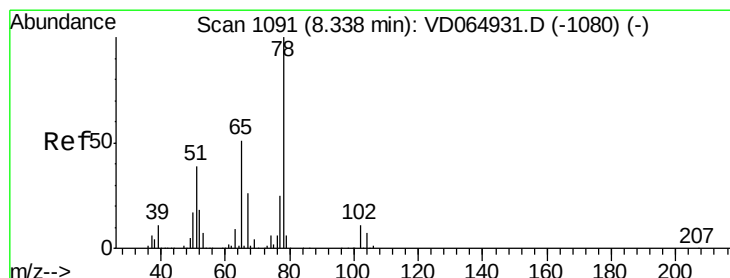
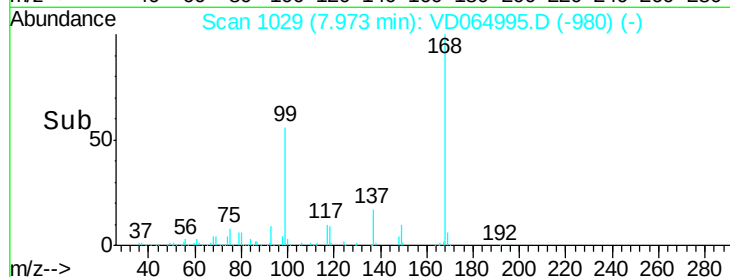
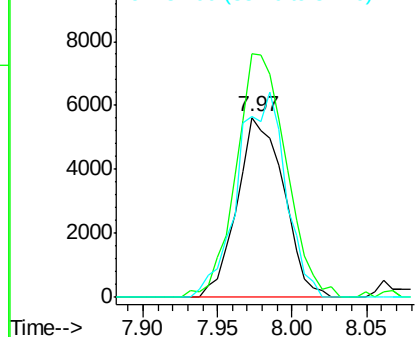
56 100

69 135.1 27.9 41.9#

84 100.1 72.8 109.2



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 49.05 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064995.D

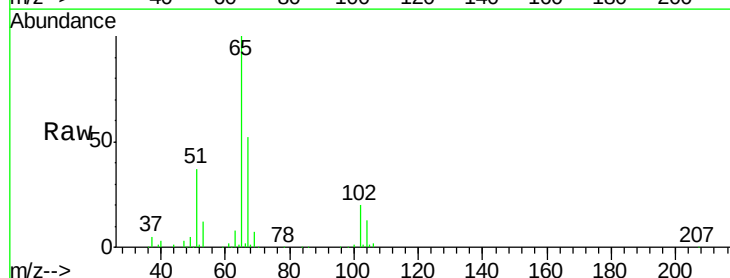
Acq: 29 Jan 2020 14:59

Tgt Ion: 65 Resp: 242868

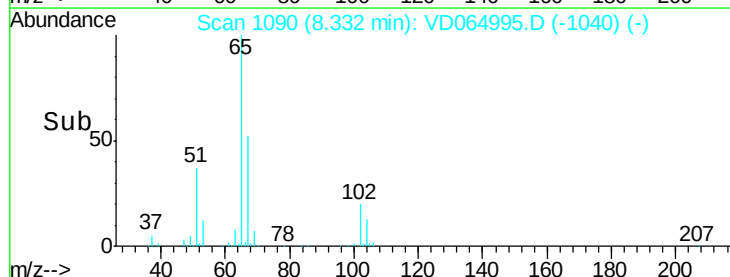
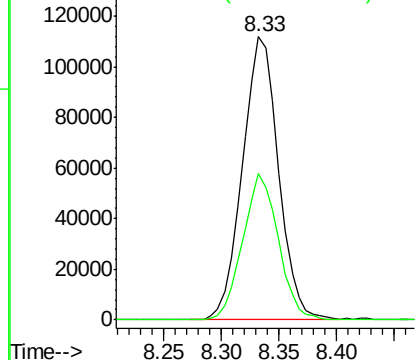
Ion Ratio Lower Upper

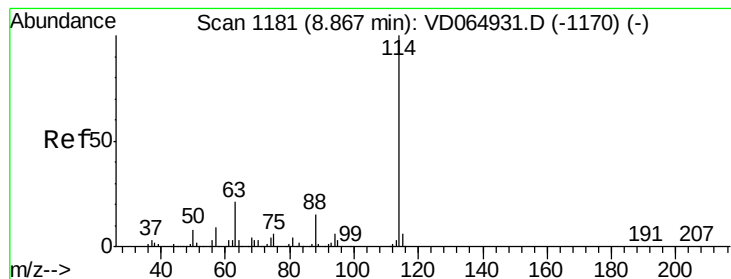
65 100

67 51.1 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

Instrument :

MSVOA\_D

ClientSampleId :

CTY-SB-02-79-80

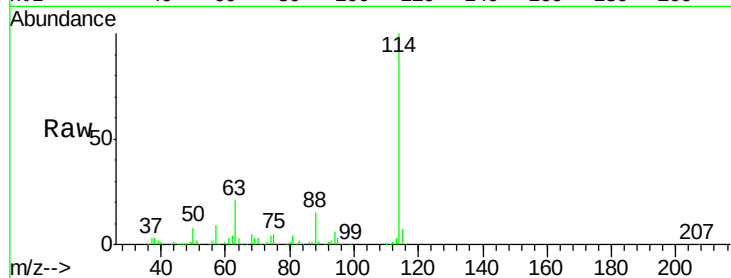
Tgt Ion:114 Resp: 814569

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.0

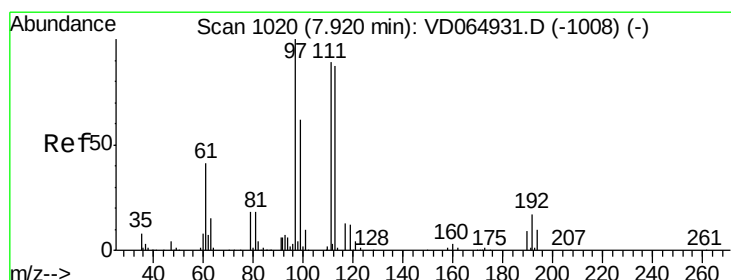
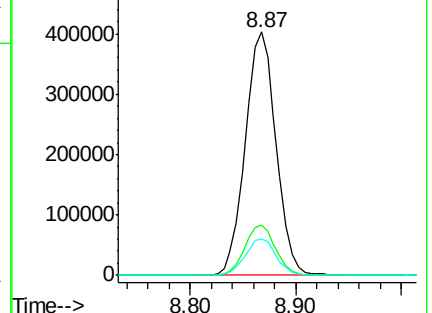
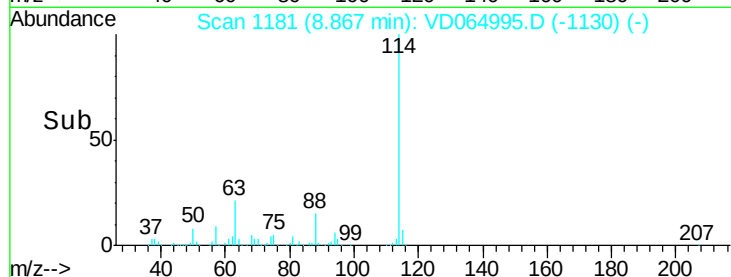
88 15.1 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 49.12 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

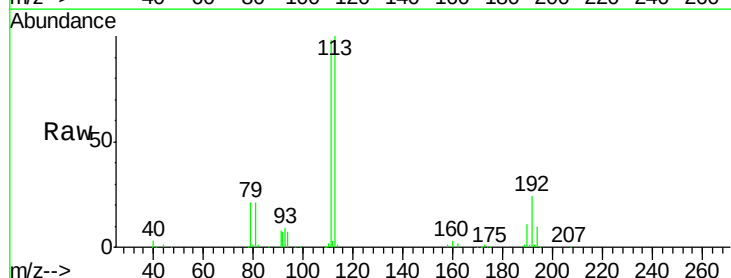
Tgt Ion:113 Resp: 251415

Ion Ratio Lower Upper

113 100

111 103.0 82.4 123.6

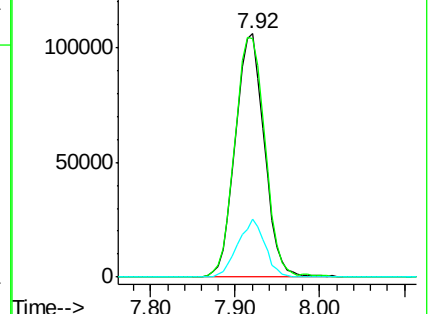
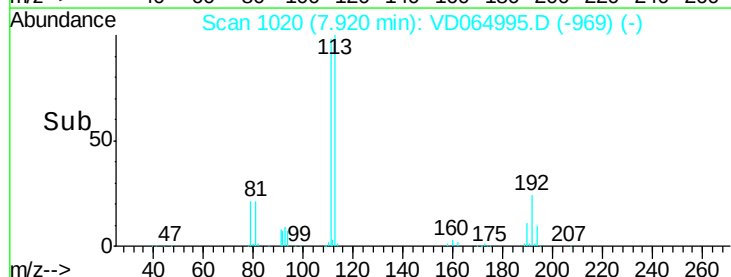
192 22.4 16.9 25.3

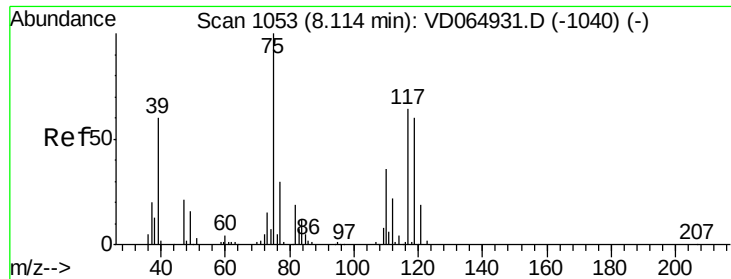


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

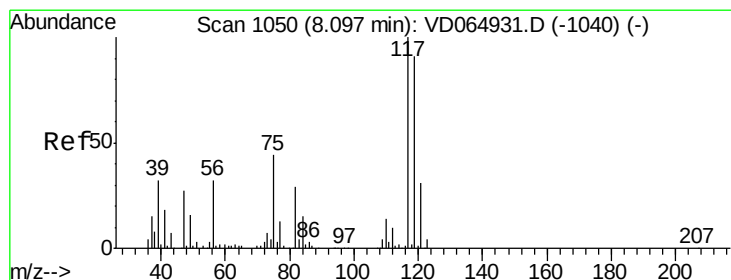
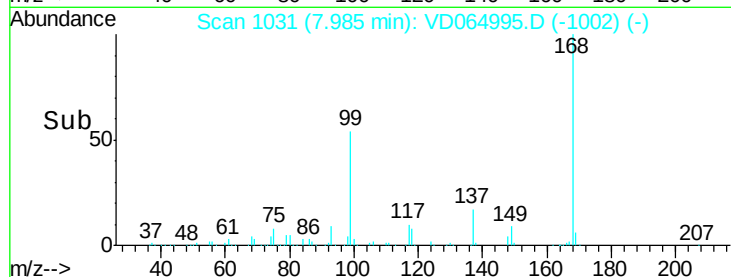
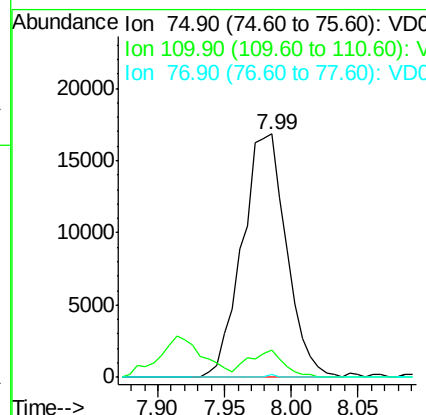
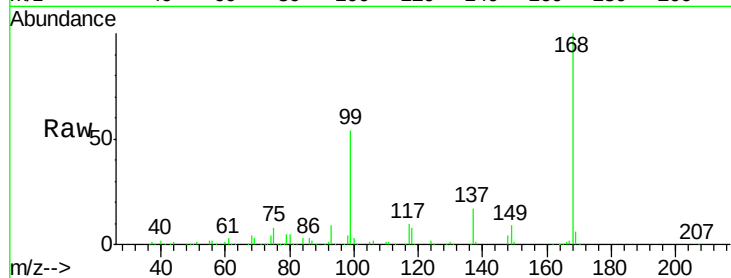




#36  
 1,1-Dichloropropene  
 Concen: 4.93 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064995.D  
 Acq: 29 Jan 2020 14:59

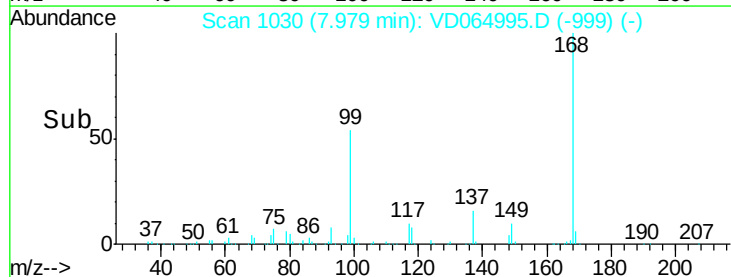
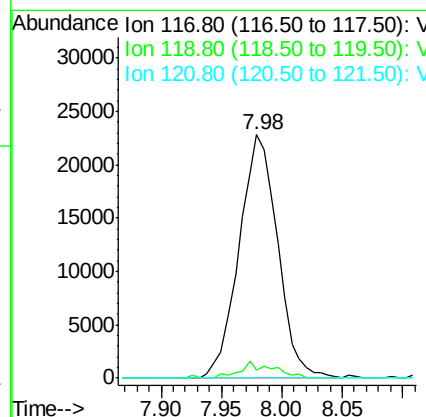
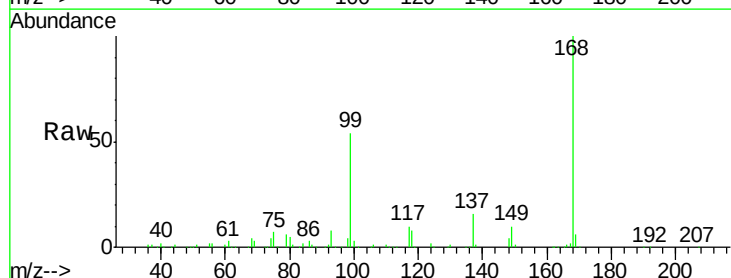
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CTY-SB-02-79-80

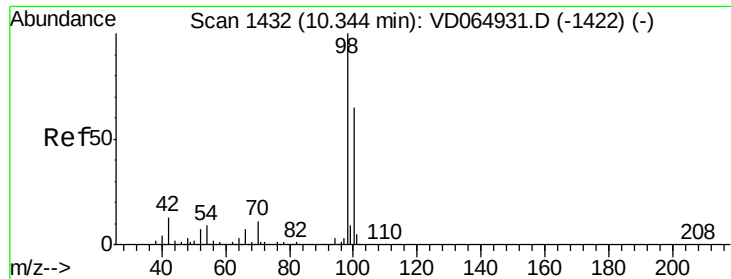
Tgt Ion: 75 Resp: 38706  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 17.3 52.0#  
 77 0.2 24.7 37.1#



#38  
 Carbon Tetrachloride  
 Concen: 6.12 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.12 min  
 Lab File: VD064995.D  
 Acq: 29 Jan 2020 14:59

Tgt Ion: 117 Resp: 50802  
 Ion Ratio Lower Upper  
 117 100  
 119 3.3 73.2 109.8#  
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 50.35 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

Instrument :

MSVOA\_D

ClientSampleId :

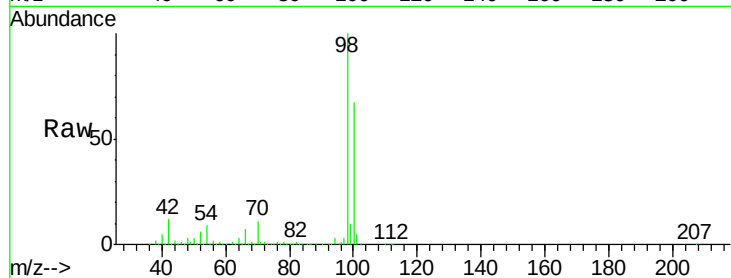
CTY-SB-02-79-80

Tgt Ion: 98 Resp: 994730

Ion Ratio Lower Upper

98 100

100 65.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VD064931.D (-1422) (-)

Ion 100.00 (99.70 to 100.70): VD064931.D (-1422) (-)

10.34

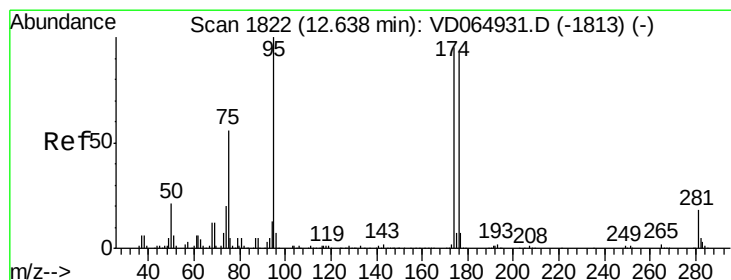
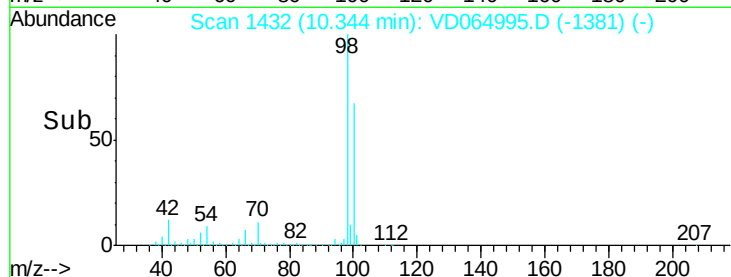
600000

400000

200000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.95 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

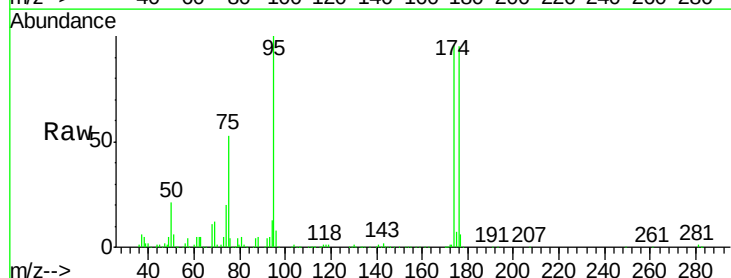
Tgt Ion: 95 Resp: 320156

Ion Ratio Lower Upper

95 100

174 94.2 0.0 186.8

176 90.5 0.0 183.4



Abundance Ion 94.90 (94.60 to 95.60): VD064931.D (-1813) (-)

Ion 173.80 (173.50 to 174.50): VD064931.D (-1813) (-)

Ion 175.80 (175.50 to 176.50): VD064931.D (-1813) (-)

12.64

250000

200000

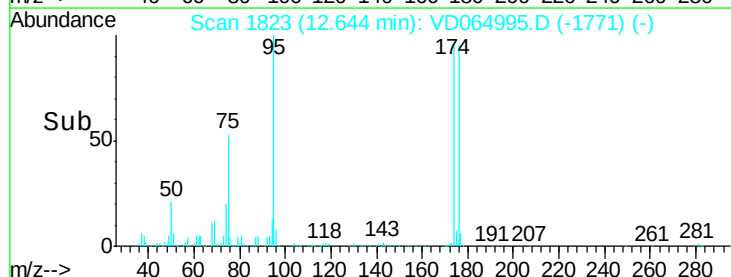
150000

100000

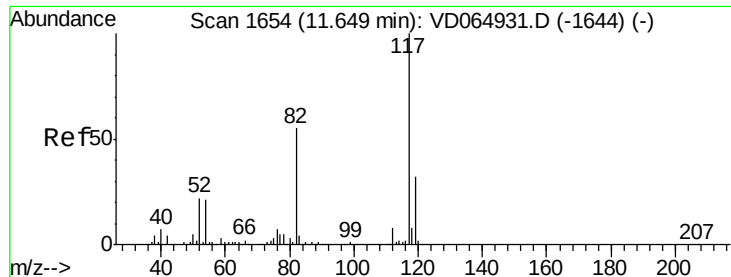
50000

0

Time-->



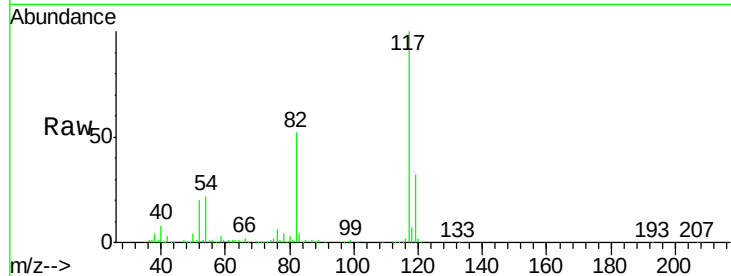




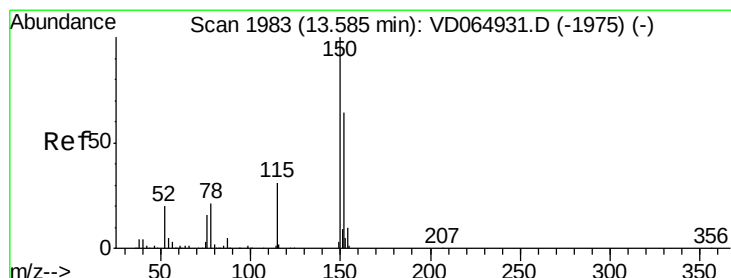
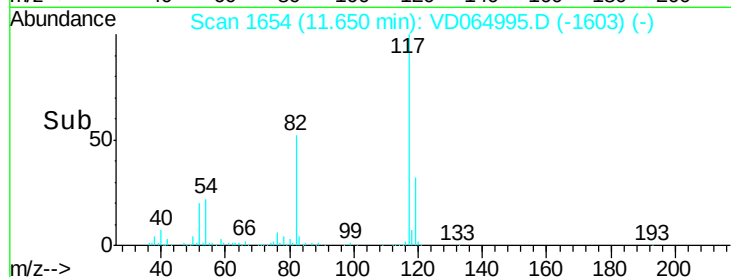
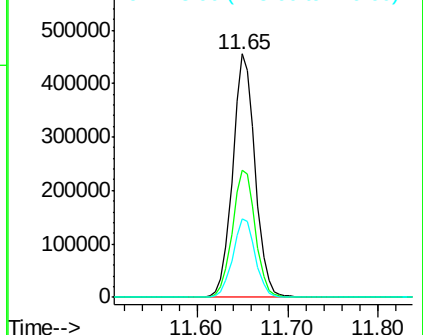
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064995.D  
Acq: 29 Jan 2020 14:59

Instrument :  
MSVOA\_D  
ClientSampleId :  
CTY-SB-02-79-80

Tgt Ion:117 Resp: 784734  
Ion Ratio Lower Upper  
117 100  
82 52.1 43.6 65.4  
119 32.2 25.2 37.8

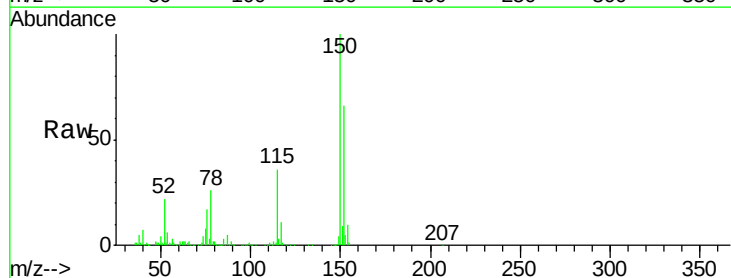


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

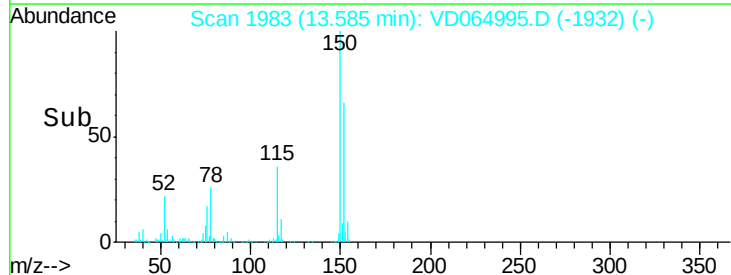
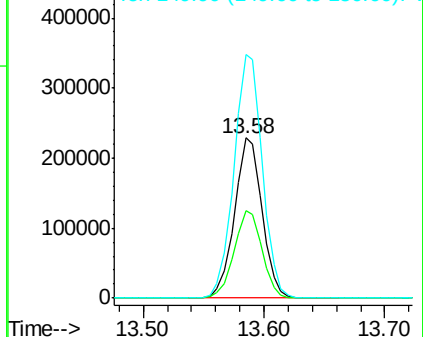


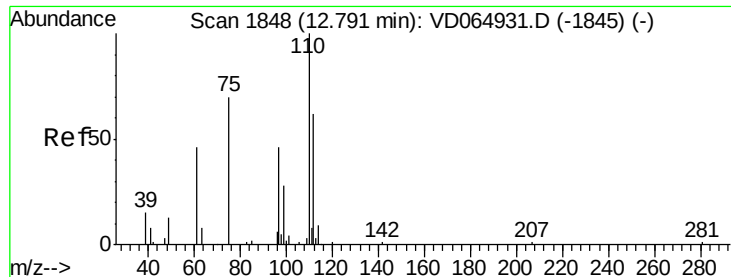
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD064995.D  
Acq: 29 Jan 2020 14:59

Tgt Ion:152 Resp: 363394  
Ion Ratio Lower Upper  
152 100  
115 55.2 28.1 84.4  
150 155.9 0.0 350.4



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: 56.34 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

Instrument :

MSVOA\_D

ClientSampleId :

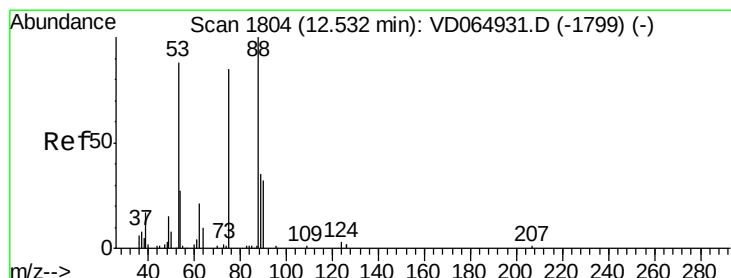
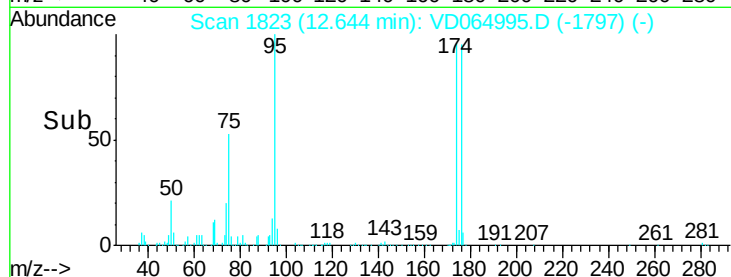
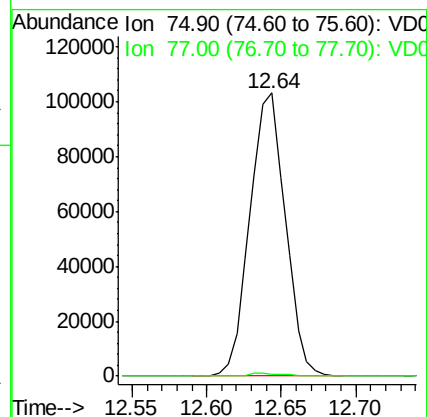
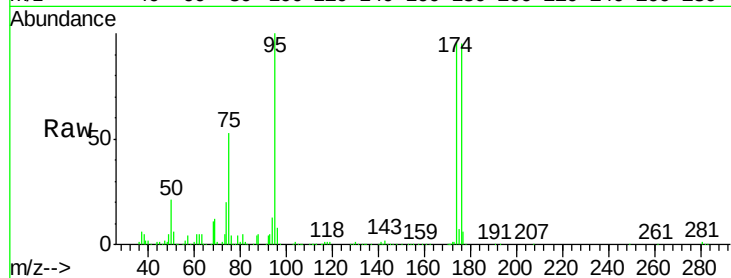
CTY-SB-02-79-80

Tgt Ion: 75 Resp: 169938

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 120.30 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

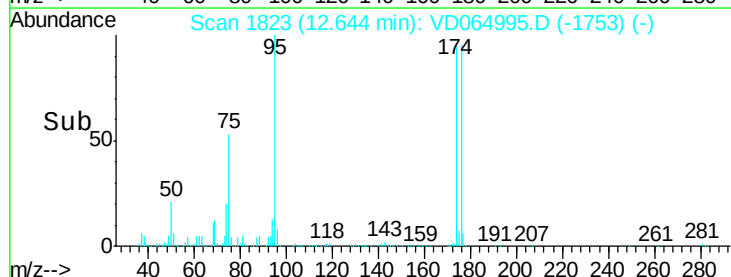
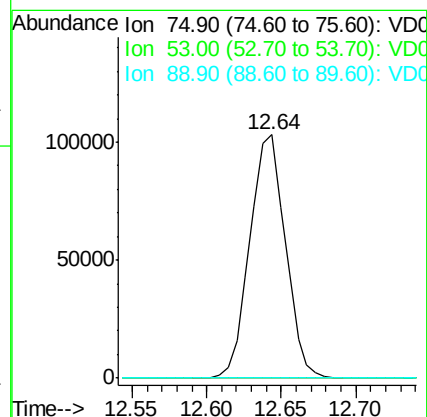
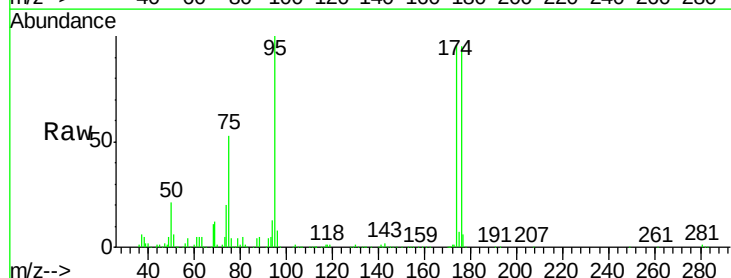
Tgt Ion: 75 Resp: 169938

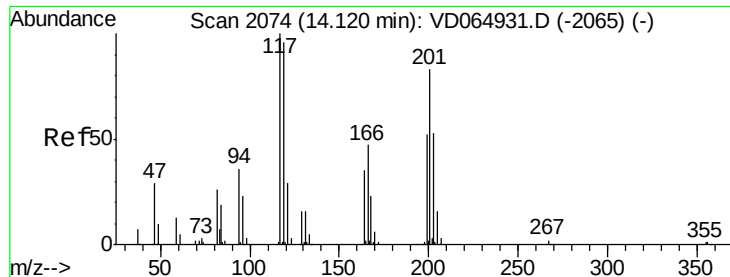
Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.4#

89 0.0 36.2 54.4#





#90

Hexachloroethane

Concen: 1.58 ug/l

RT: 14.13 min Scan# 2076

Delta R.T. 0.01 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

Instrument :

MSVOA\_D

ClientSampleId :

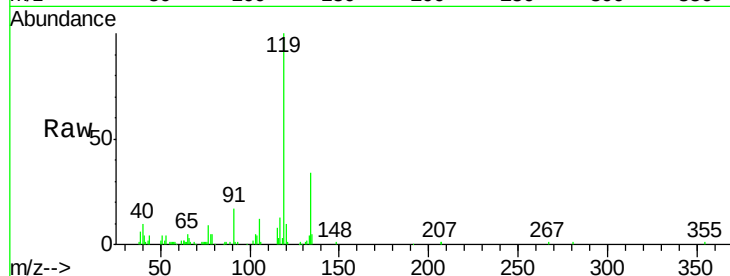
CTY-SB-02-79-80

Tgt Ion:117 Resp: 6971

Ion Ratio Lower Upper

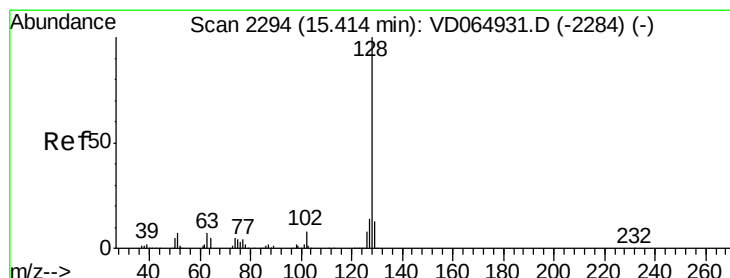
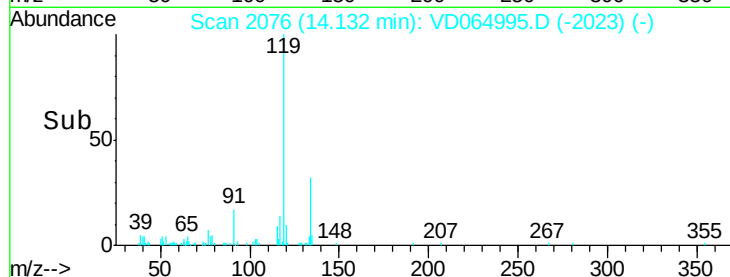
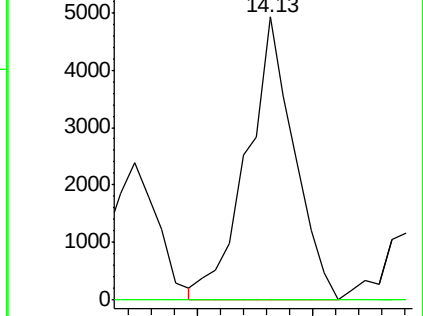
117 100

201 0.0 41.1 123.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 3.17 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064995.D

Acq: 29 Jan 2020 14:59

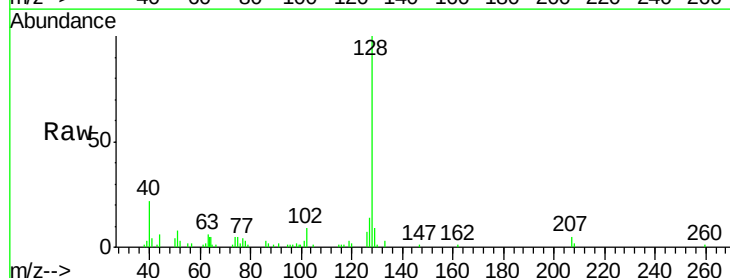
Tgt Ion:128 Resp: 35029

Ion Ratio Lower Upper

128 100

127 14.0 10.6 15.8

129 11.9 9.3 13.9



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

