

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051019\  
 Data File : VD062219.D  
 Acq On : 10 May 2019 16:55  
 Operator : FY/SY  
 Sample : K2717-16RE  
 Misc : 5.21g/5mL/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS003-0612-01RE

Quant Time: May 10 23:32:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 662414   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 877207   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 659647   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 278618   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 390797   | 63.48 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 126.96% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 458282   | 62.97 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 125.94% |          |
| 50) Toluene-d8              | 10.41 | 98   | 882869   | 50.31 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 100.62% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 288597   | 40.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.90%  |          |

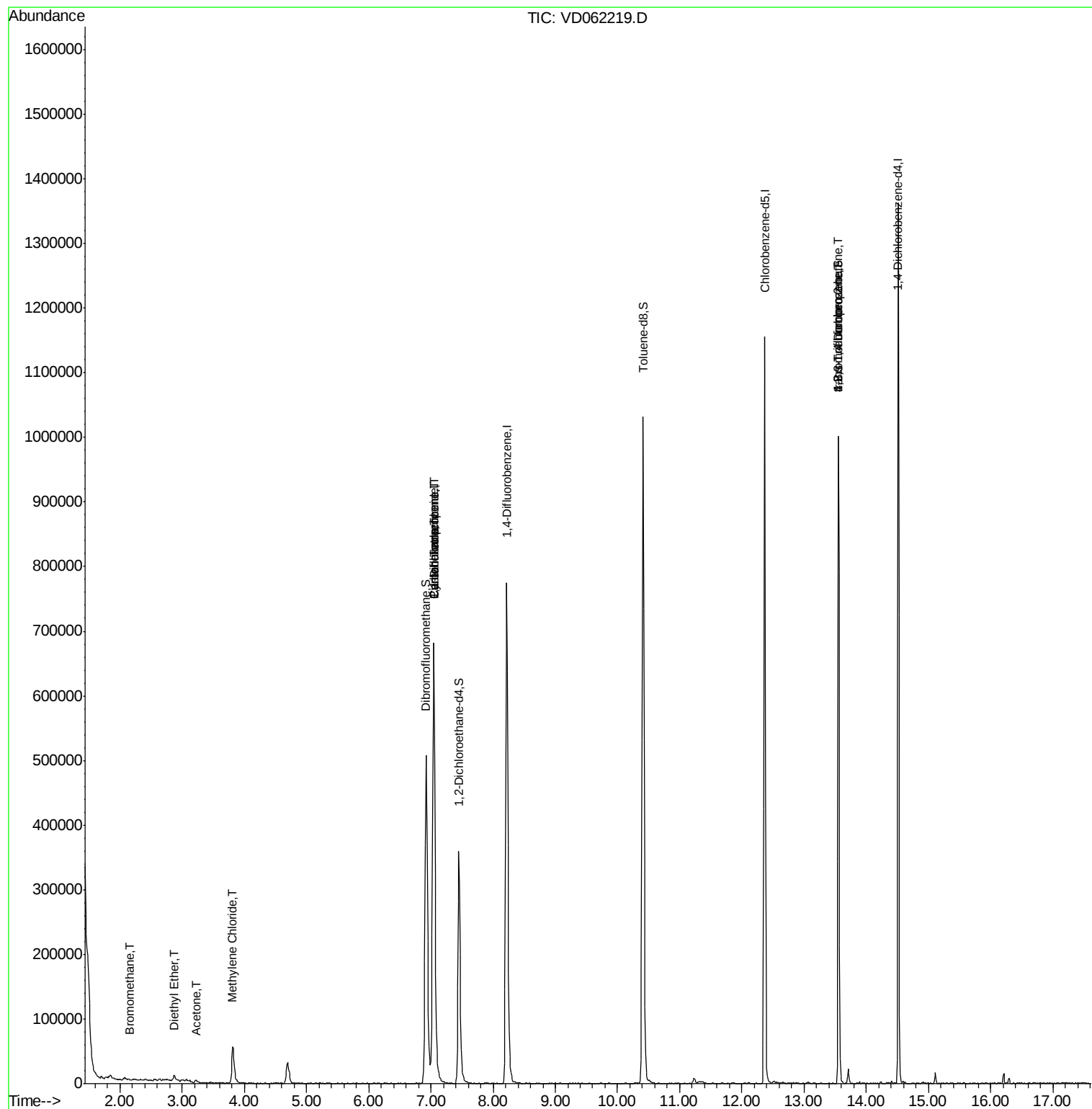
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.17  | 94   | 1502     | 1.425   | ug/l # | 12     |
| 8) Diethyl Ether               | 2.87  | 74   | 2800     | 1.660   | ug/l   | 92     |
| 16) Acetone                    | 3.21  | 43   | 7952     | 6.160   | ug/l # | 50     |
| 20) Methylene Chloride         | 3.81  | 84   | 40442    | 7.503   | ug/l   | 93     |
| 31) Cyclohexane                | 7.05  | 56   | 12813    | 1.984   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 52462    | 7.294   | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.05  | 117  | 66208    | 6.651   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 13.55 | 75   | 101574   | 30.676  | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 126934   | 135.794 | ug/l # | 16     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051019\  
Data File : VD062219.D  
Acq On : 10 May 2019 16:55  
Operator : FY/SY  
Sample : K2717-16RE  
Misc : 5.21a/5mL/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS003-0612-01RE

Quant Time: May 10 23:32:59 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.03 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

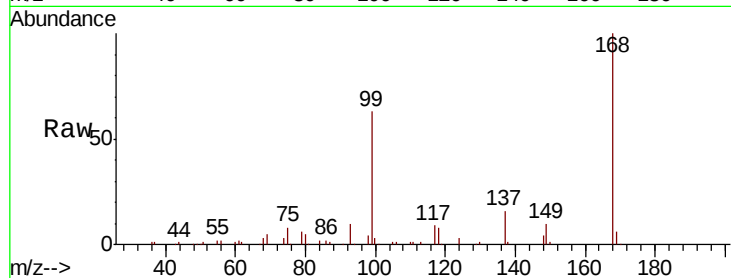
P026-SS003-0612-01RE

Tot Ion:168 Resp: 662414

Ion Ratio Lower Upper

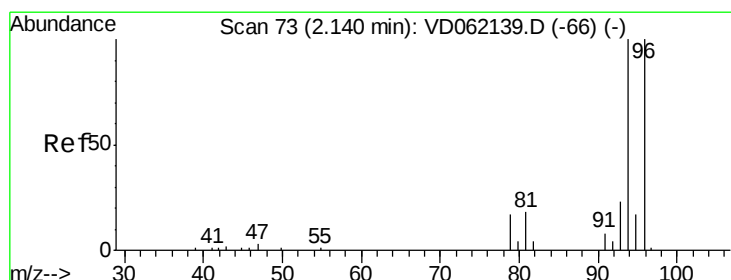
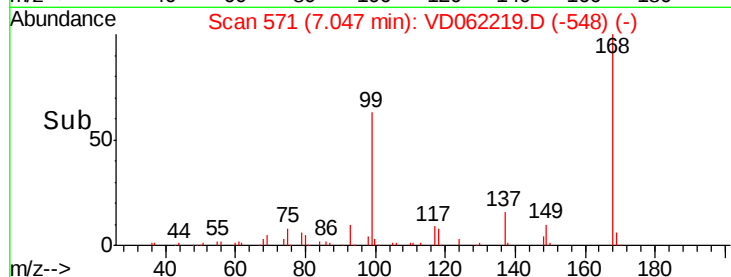
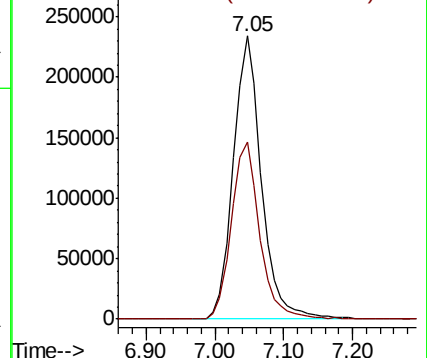
168 100

99 62.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.425 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.03 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

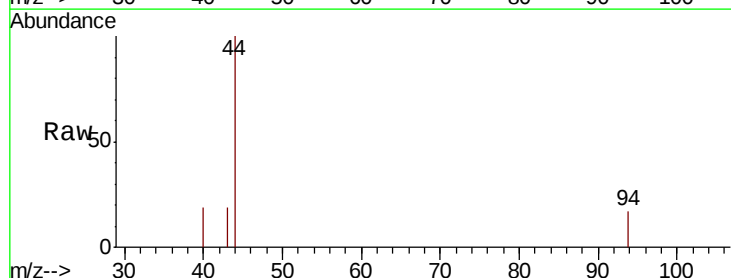
Tgt Ion: 94 Resp: 1502

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

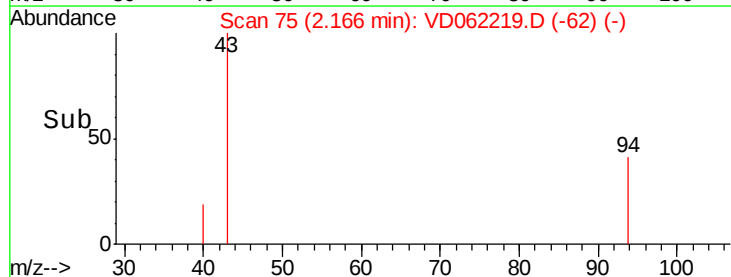
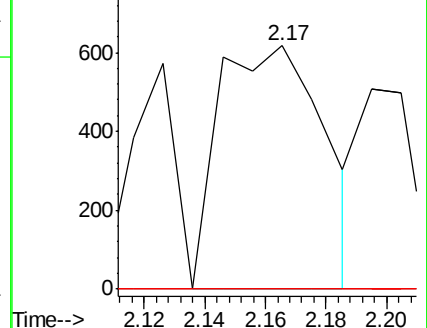
93 0.0 18.5 27.7#

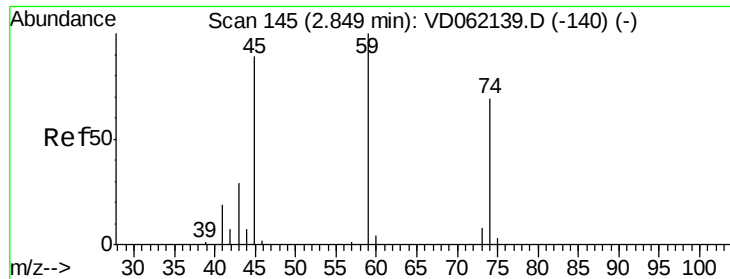


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 1.660 ug/l

RT: 2.87 min Scan# 147

Delta R.T. 0.03 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

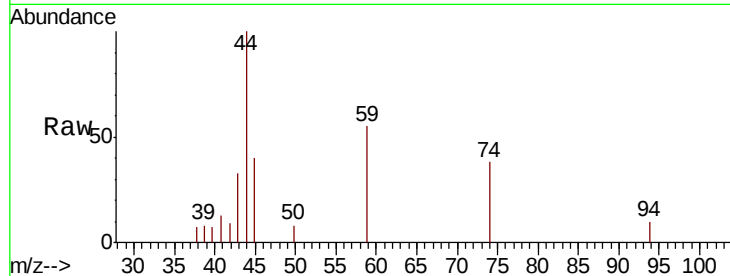
P026-SS003-0612-01RE

Tot Ion: 74 Resp: 2800

Ion Ratio Lower Upper

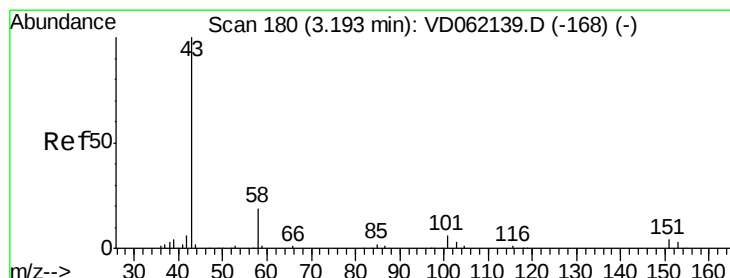
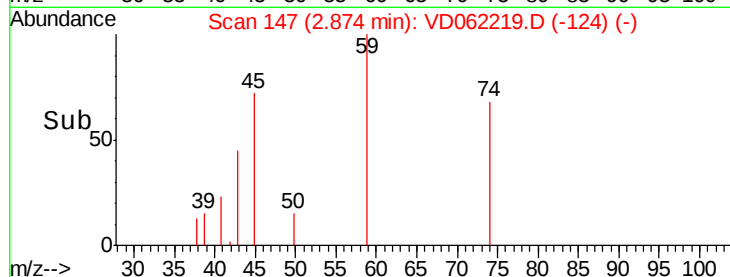
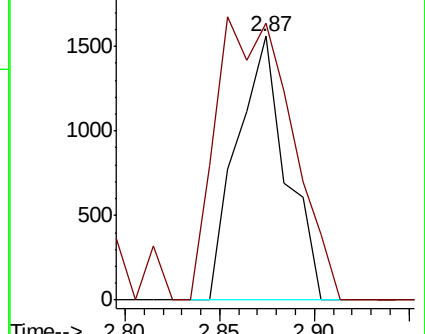
74 100

45 105.2 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 6.160 ug/l

RT: 3.21 min Scan# 181

Delta R.T. 0.02 min

Lab File: VD062219.D

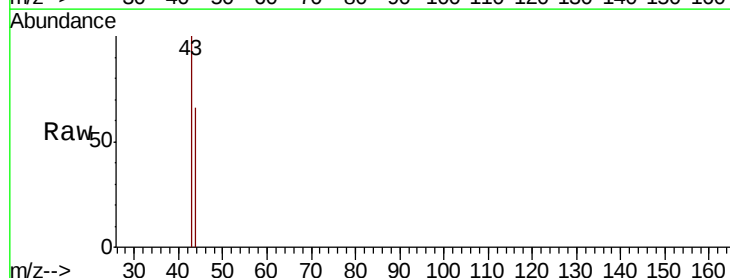
Acq: 10 May 2019 16:55

Tgt Ion: 43 Resp: 7952

Ion Ratio Lower Upper

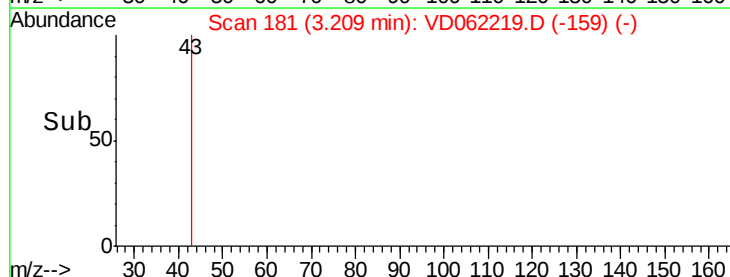
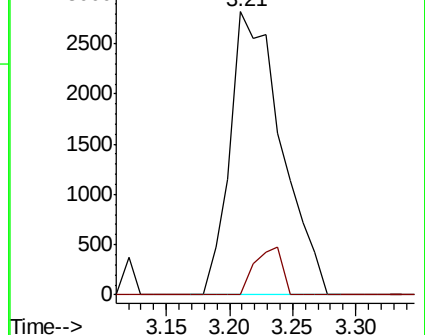
43 100

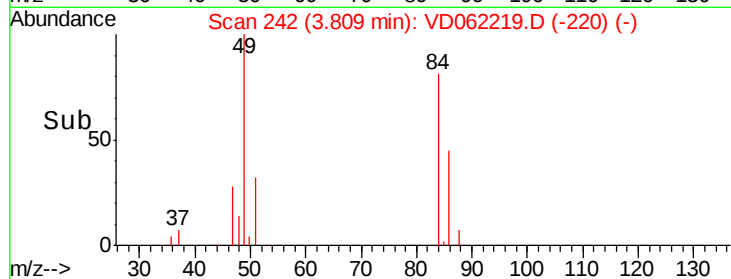
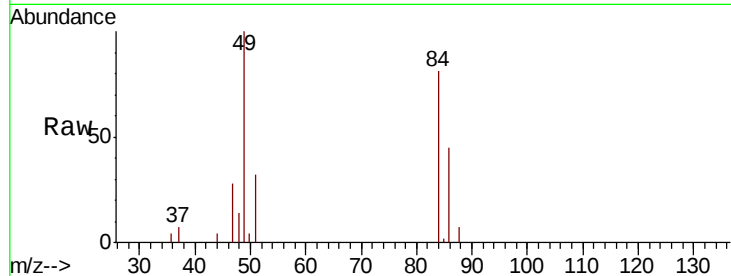
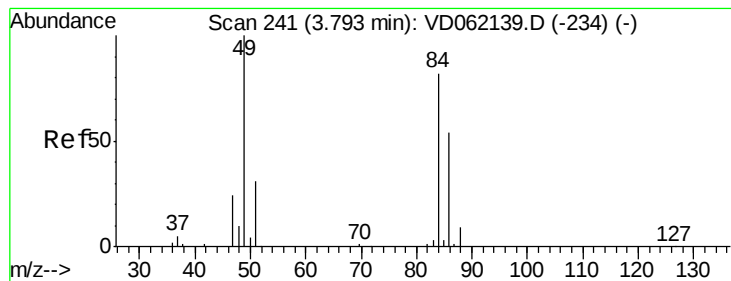
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#20

Methylene Chloride

Concen: 7.503 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.02 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0612-01RE

Tot Ion: 84 Resp: 40442

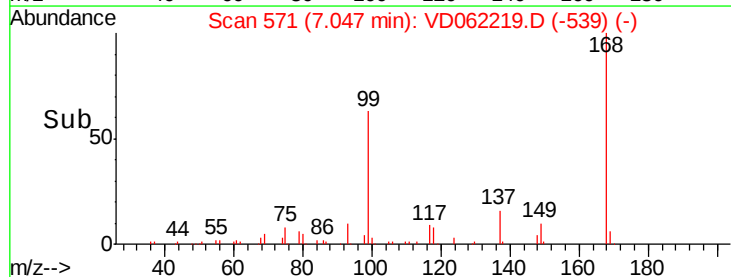
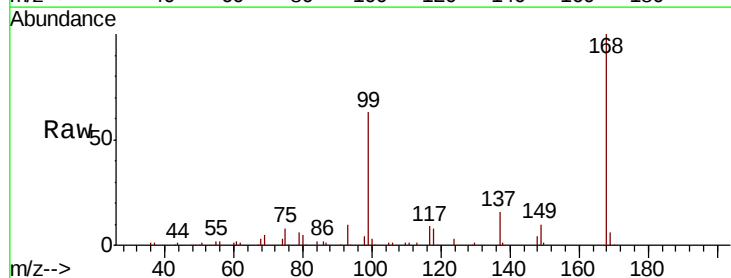
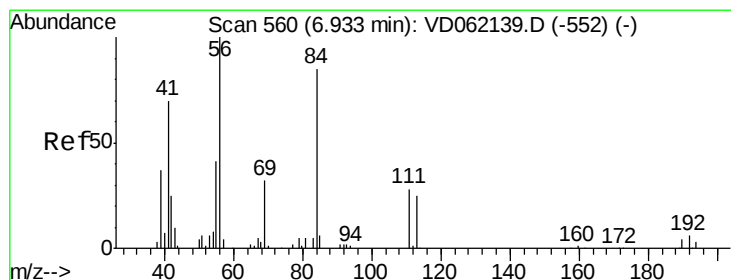
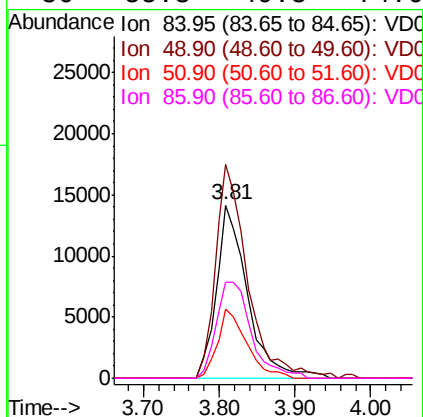
Ion Ratio Lower Upper

84 100

49 123.6 94.0 141.0

51 40.1 29.0 43.4

86 55.3 49.8 74.6



#31

Cyclohexane

Concen: 1.984 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

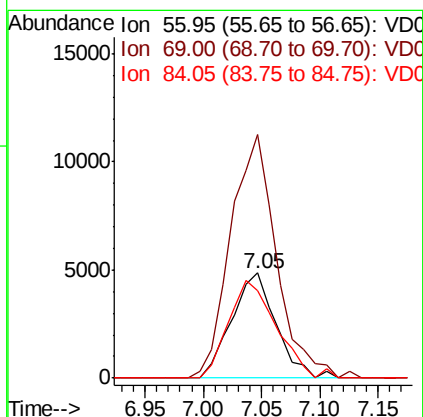
Tgt Ion: 56 Resp: 12813

Ion Ratio Lower Upper

56 100

69 231.5 25.8 38.6#

84 83.7 72.2 108.4





#33

1,2-Dichloroethane-d4

Concen: 63.483 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.03 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

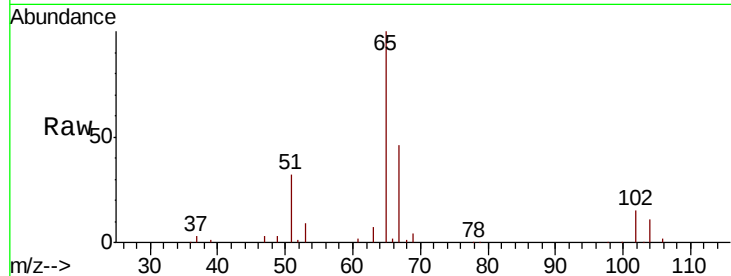
P026-SS003-0612-01RE

Tot Ion: 65 Resp: 390797

Ion Ratio Lower Upper

65 100

67 45.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

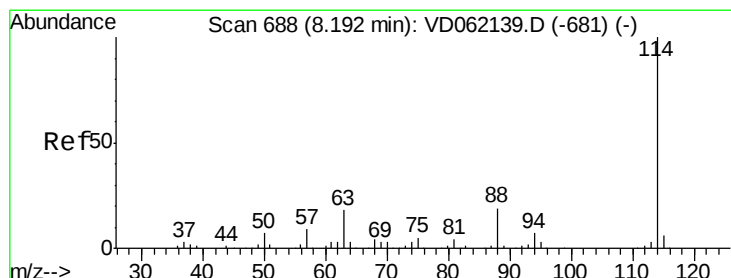
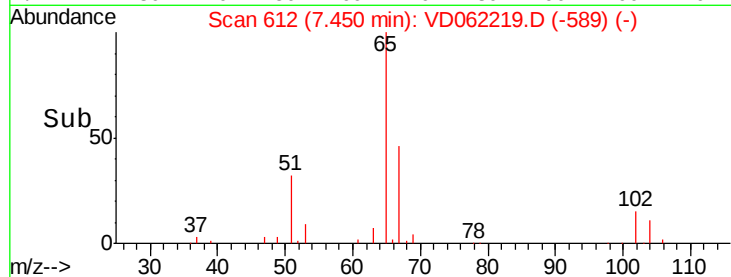
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.03 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

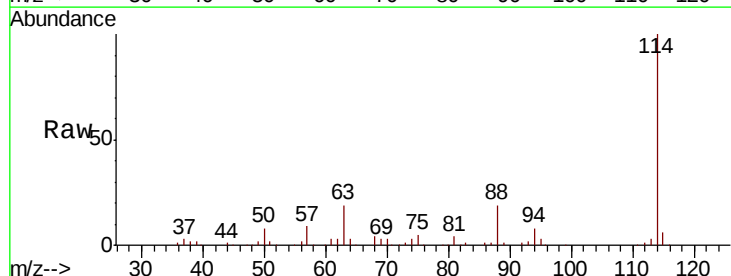
Tgt Ion: 114 Resp: 877207

Ion Ratio Lower Upper

114 100

63 18.7 0.0 32.4

88 18.6 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

400000

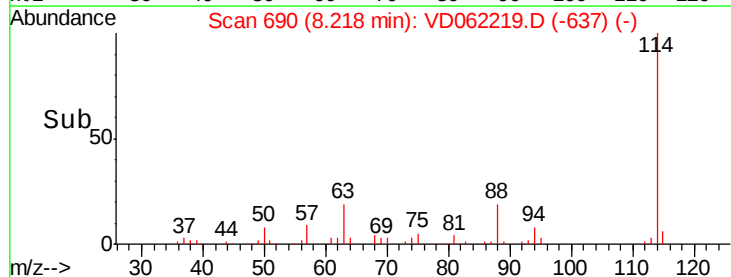
300000

200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 62.966 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.03 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0612-01RE

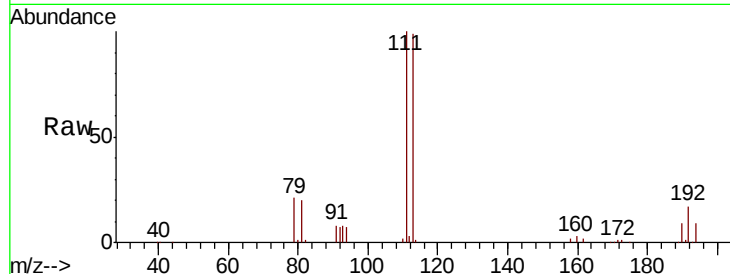
Tot Ion:113 Resp: 458282

Ion Ratio Lower Upper

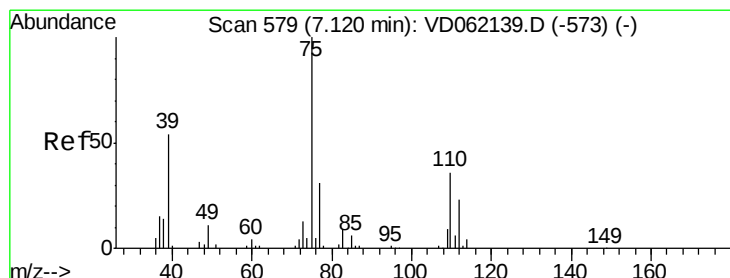
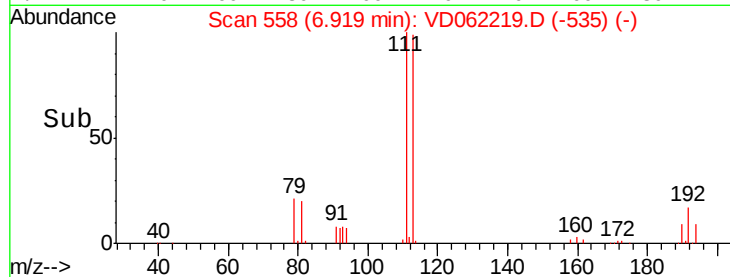
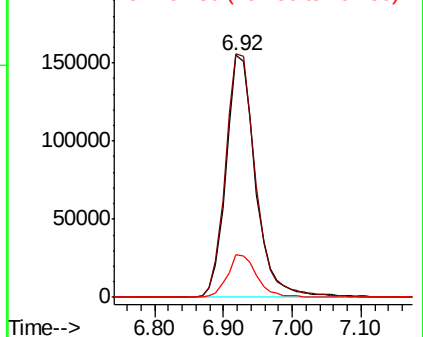
113 100

111 100.7 78.5 117.7

192 17.5 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 7.294 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

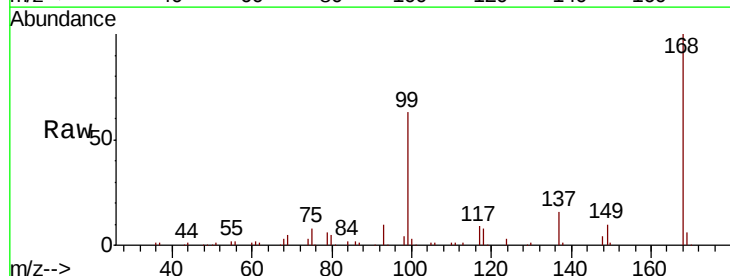
Tgt Ion: 75 Resp: 52462

Ion Ratio Lower Upper

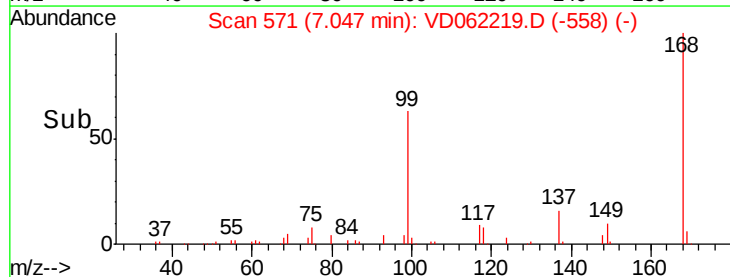
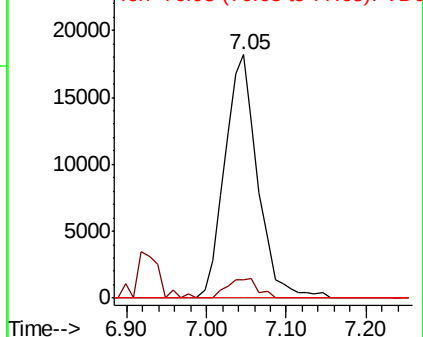
75 100

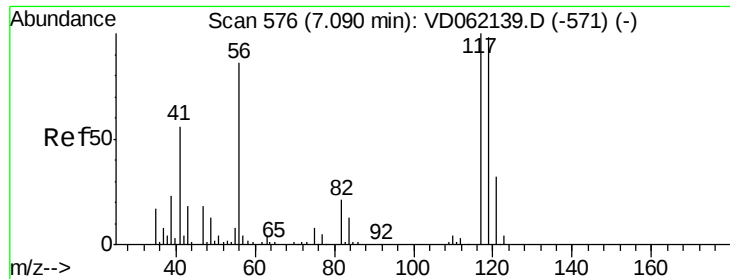
110 7.7 19.1 57.1#

77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.95 (76.65 to 77.65): VDC

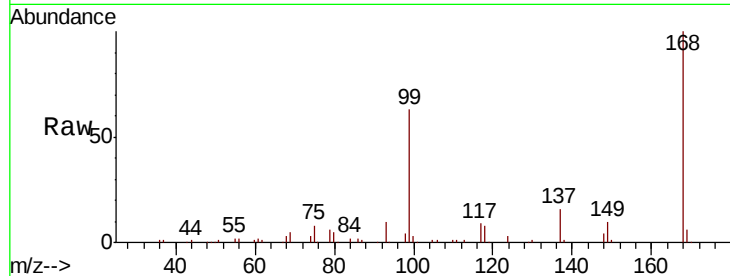




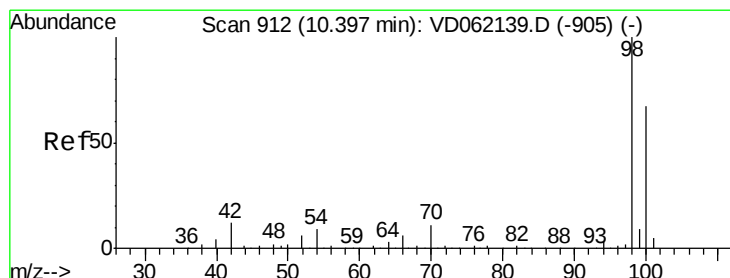
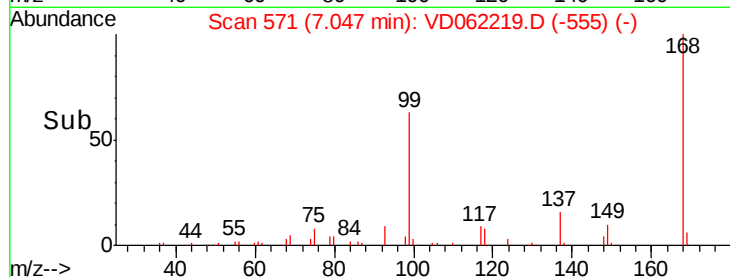
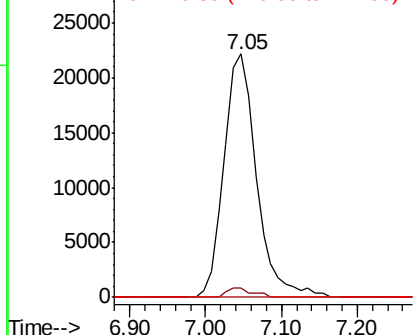
#38  
Carbon Tetrachloride  
Concen: 6.651 ug/l  
RT: 7.05 min Scan# 571  
Delta R.T. -0.04 min  
Lab File: VD062219.D  
Acq: 10 May 2019 16:55

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS003-0612-01RE

Tot Ion:117 Resp: 66208  
Ion Ratio Lower Upper  
117 100  
119 4.1 75.8 113.8#  
121 0.0 25.9 38.9#

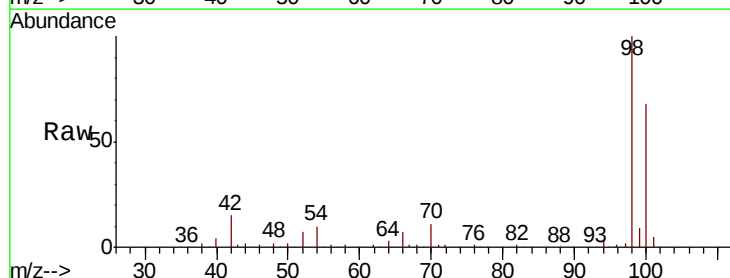


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

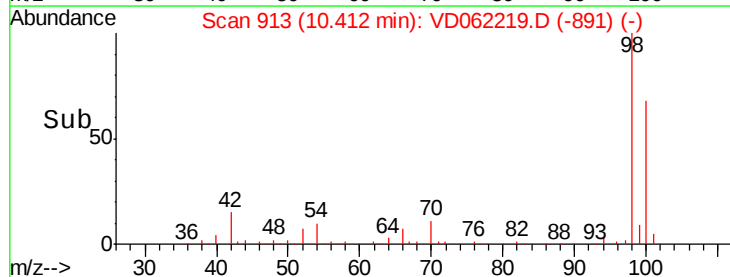
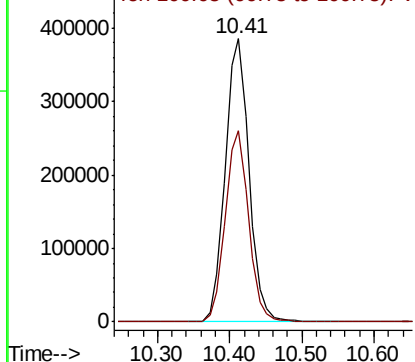


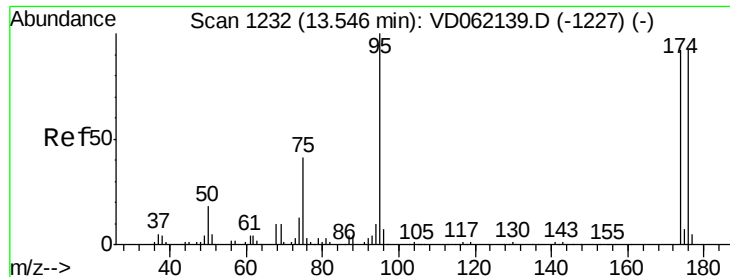
#50  
Toluene-d8  
Concen: 50.310 ug/l  
RT: 10.41 min Scan# 913  
Delta R.T. 0.02 min  
Lab File: VD062219.D  
Acq: 10 May 2019 16:55

Tgt Ion: 98 Resp: 882869  
Ion Ratio Lower Upper  
98 100  
100 67.6 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V  
Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 40.954 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0612-01RE

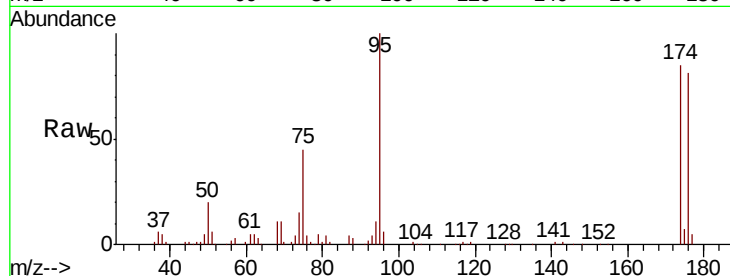
Tot Ion: 95 Resp: 288597

Ion Ratio Lower Upper

95 100

174 85.2 0.0 181.8

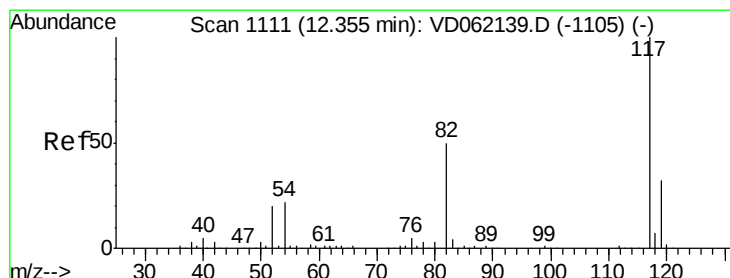
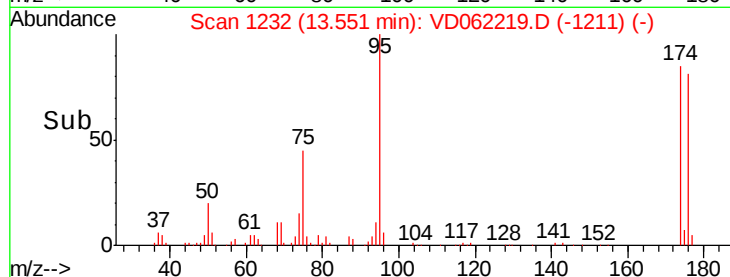
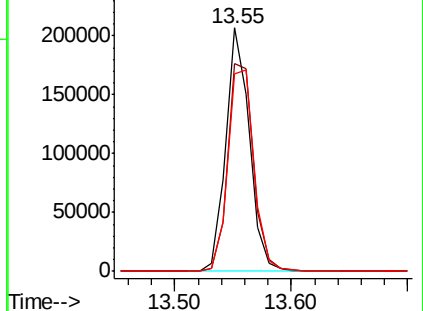
176 80.9 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.02 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

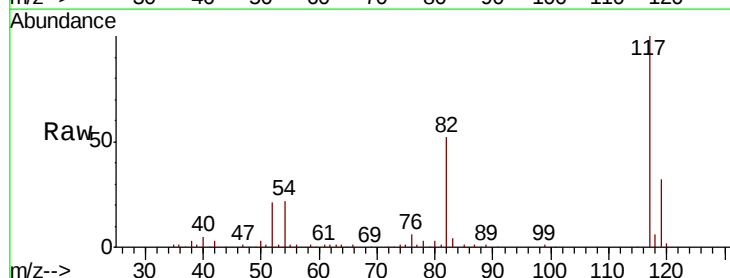
Tgt Ion: 117 Resp: 659647

Ion Ratio Lower Upper

117 100

82 51.7 36.2 54.2

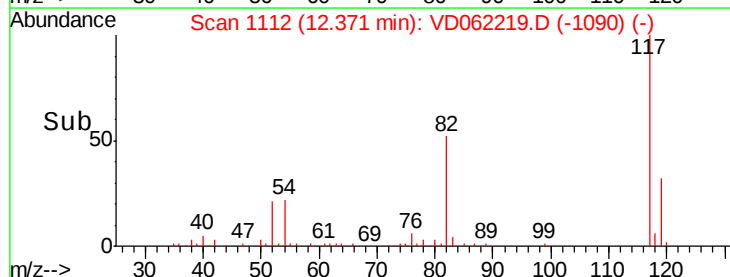
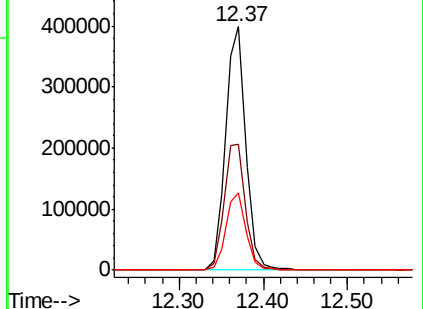
119 32.0 26.2 39.4

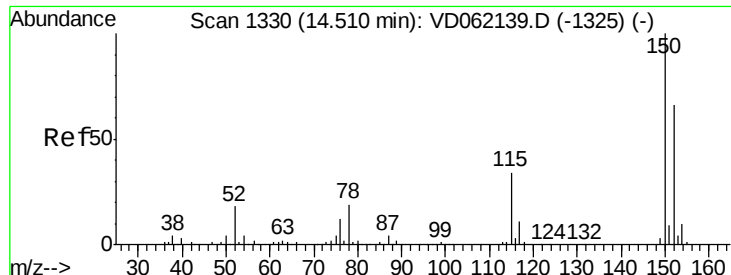


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0612-01RE

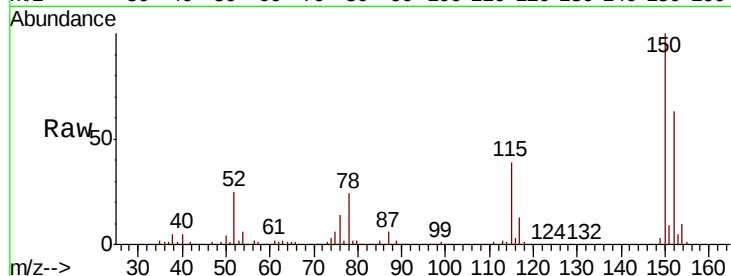
Tot Ion:152 Resp: 278618

Ion Ratio Lower Upper

152 100

115 62.2 30.9 92.7

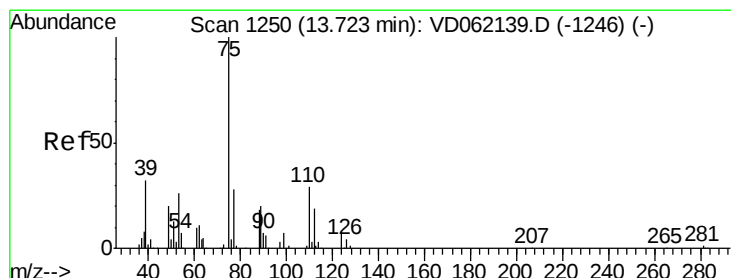
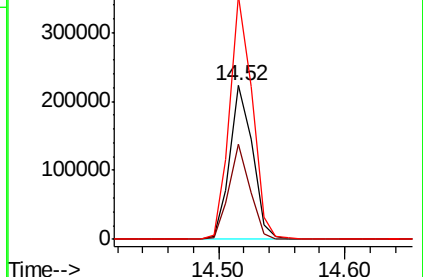
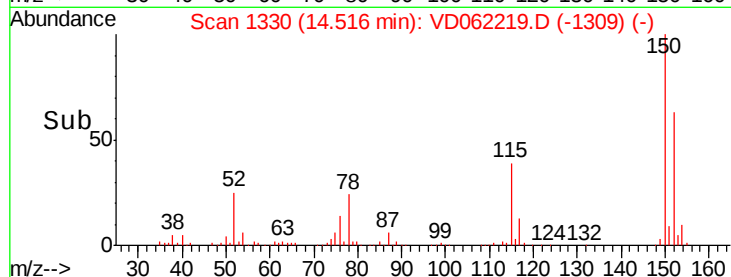
150 158.5 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 30.676 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062219.D

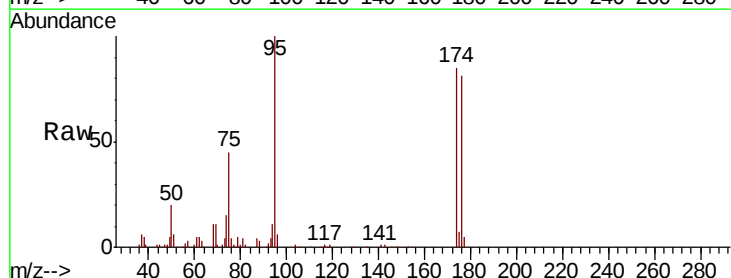
Acq: 10 May 2019 16:55

Tgt Ion: 75 Resp: 101574

Ion Ratio Lower Upper

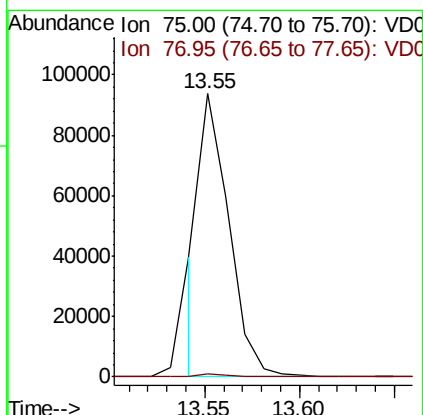
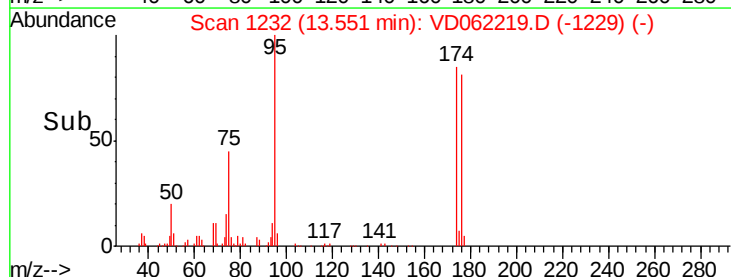
75 100

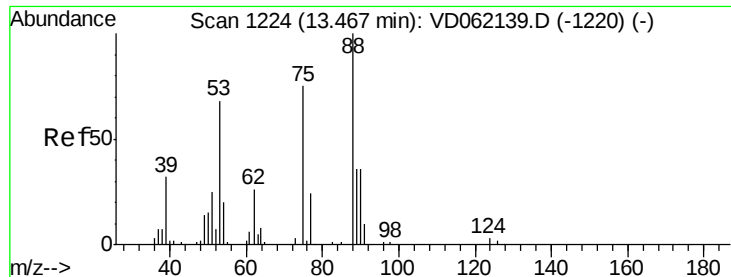
77 1.2 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 135.794 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062219.D

Acq: 10 May 2019 16:55

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0612-01RE

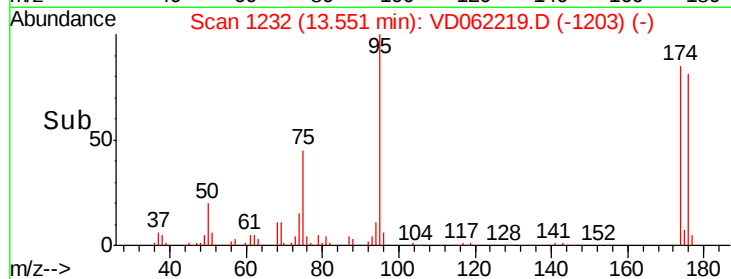
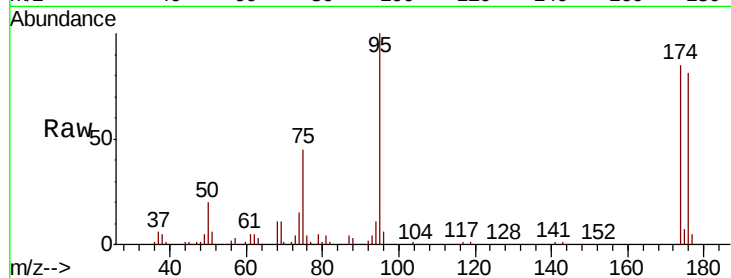
Tot Ion: 75 Resp: 126934

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

