

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD050919\  
 Data File : VD062202.D  
 Acq On : 9 May 2019 21:45  
 Operator : FY/SY  
 Sample : K2717-14  
 Misc : 4.74g/5mL/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS003-0002-01

Quant Time: May 10 04:22:54 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      | 7.04  | 168  | 22396    | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 48500    | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 50917    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 24460    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 38839    | 186.61 | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 373.22% |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 32710    | 81.29  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 162.58% |          |
| 50) Toluene-d8              | 10.40 | 98   | 51641    | 53.22  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.44% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 25125    | 64.49  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 128.98% |          |

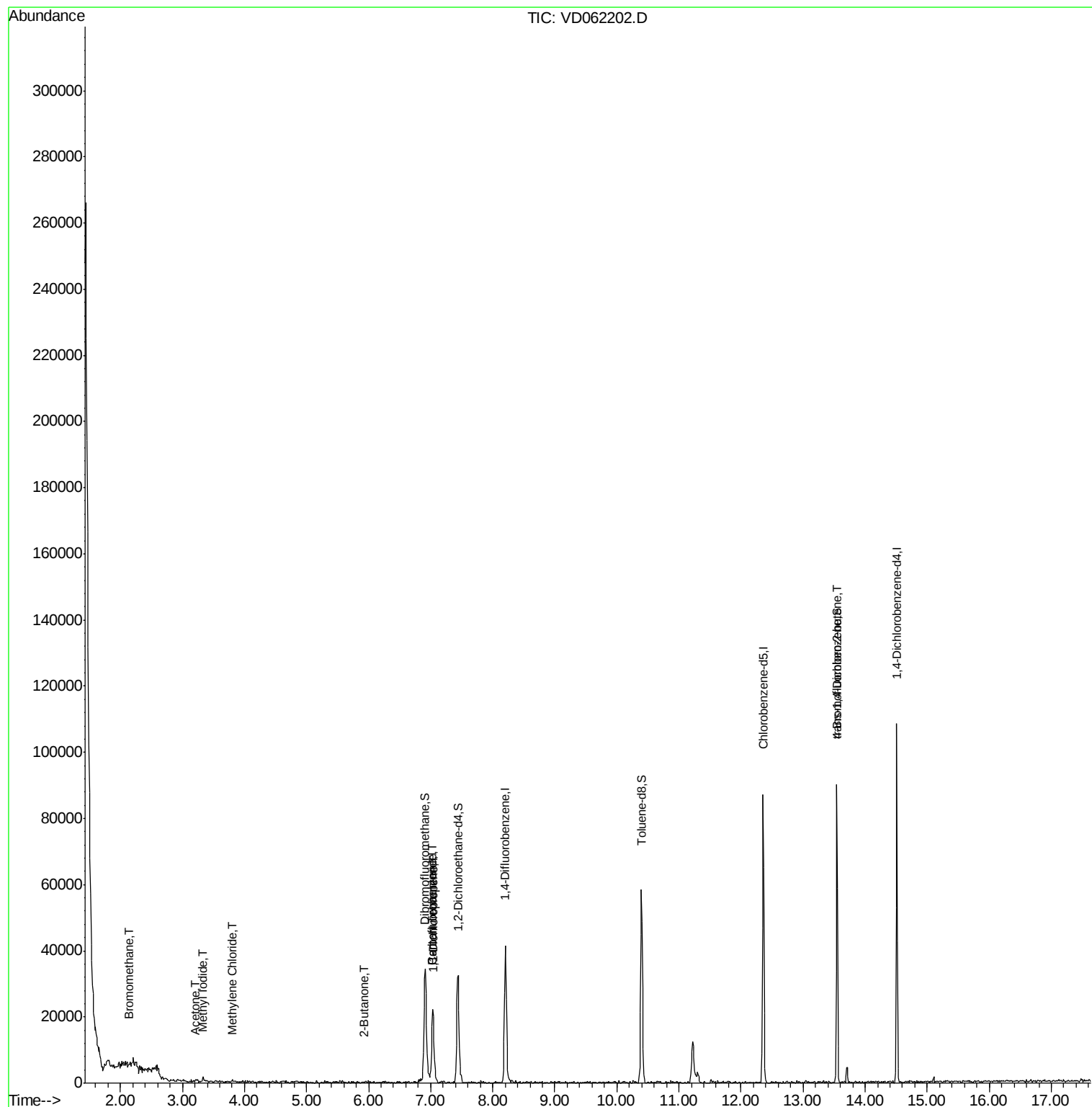
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Bromomethane                | 2.13  | 94   | 799      | 22.418  | ug/l # | 12     |
| 10) Methyl Iodide              | 3.33  | 142  | 1718     | 5.081   | ug/l # | 81     |
| 16) Acetone                    | 3.21  | 43   | 418      | 9.577   | ug/l # | 50     |
| 20) Methylene Chloride         | 3.80  | 84   | 234      | 1.284   | ug/l # | 8      |
| 25) 2-Butanone                 | 5.91  | 43   | 194      | 4.075   | ug/l # | 56     |
| 36) 1,1-Dichloropropene        | 7.05  | 75   | 1523     | 3.830   | ug/l # | 40     |
| 38) Carbon Tetrachloride       | 7.03  | 117  | 2055     | 3.734   | ug/l # | 12     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 11135    | 135.689 | ug/l # | 16     |

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

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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: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

Instrument :

MSVOA\_D

ClientSampleId :

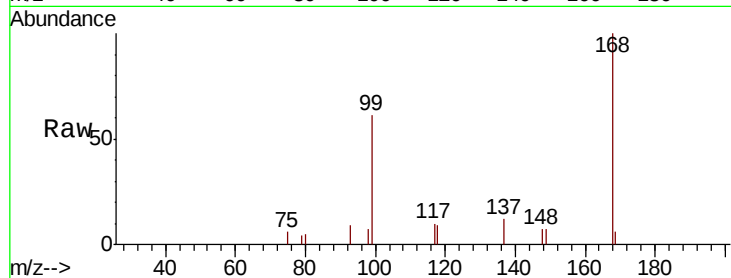
P026-SS003-0002-01

Tgt Ion:168 Resp: 22396

Ion Ratio Lower Upper

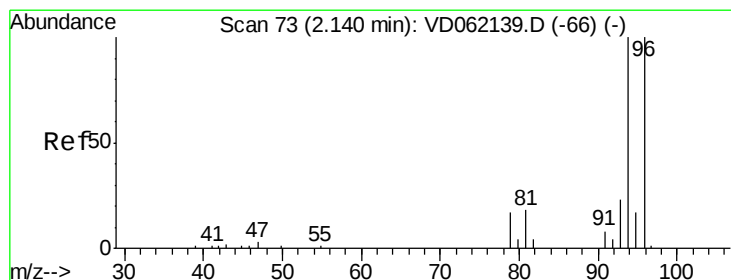
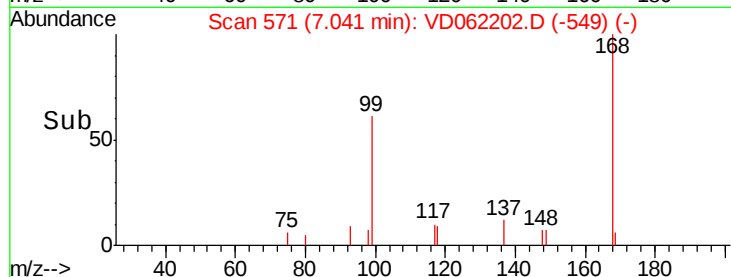
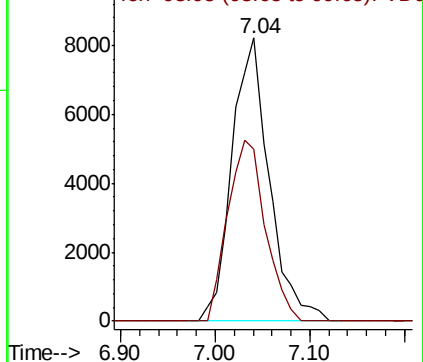
168 100

99 60.7 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: 22.418 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

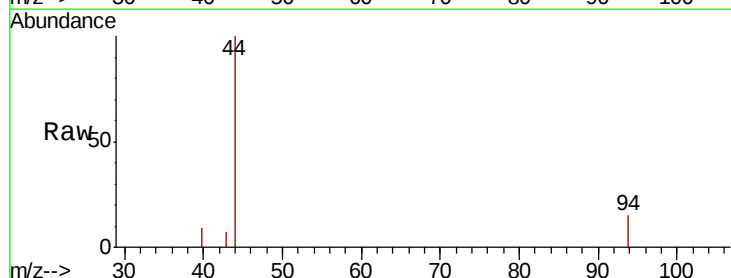
Tgt Ion: 94 Resp: 799

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

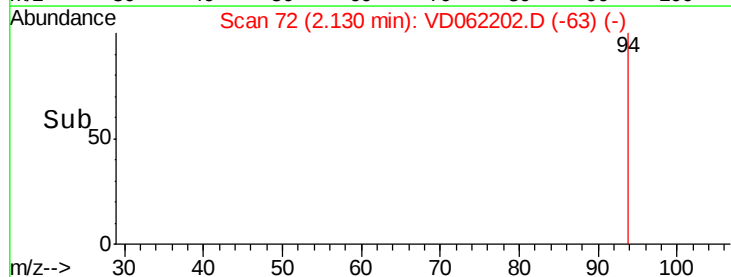
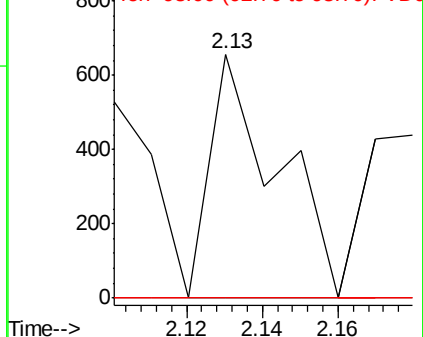
93 0.0 18.5 27.7#

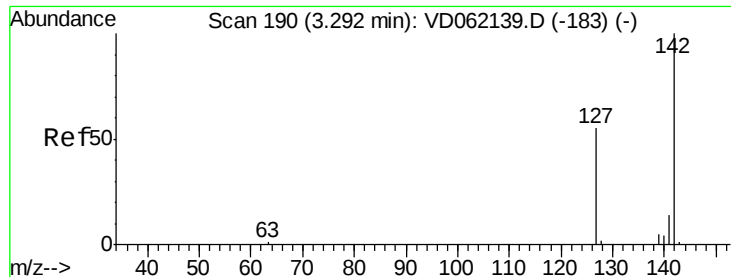


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

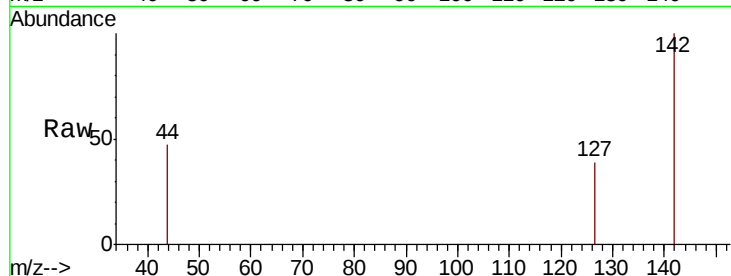




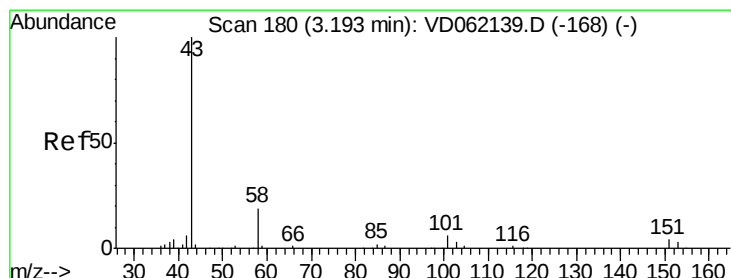
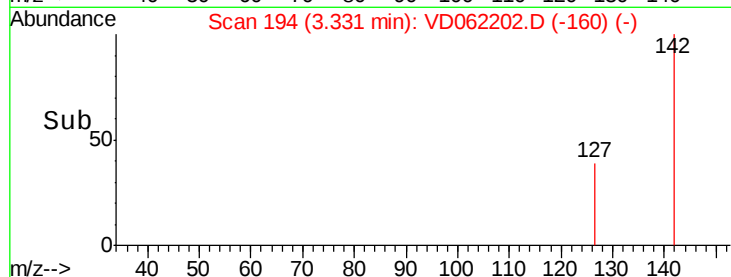
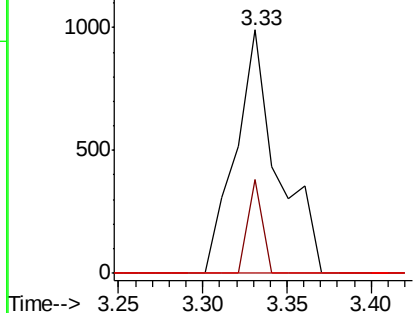
#10  
Methyl Iodide  
Concen: 5.081 ug/l  
RT: 3.33 min Scan# 194  
Delta R.T. 0.04 min  
Lab File: VD062202.D  
Acq: 9 May 2019 21:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS003-0002-01

Tgt Ion: 142 Resp: 1718  
Ion Ratio Lower Upper  
142 100  
127 38.6 38.8 58.2#  
141 0.0 11.4 17.0#

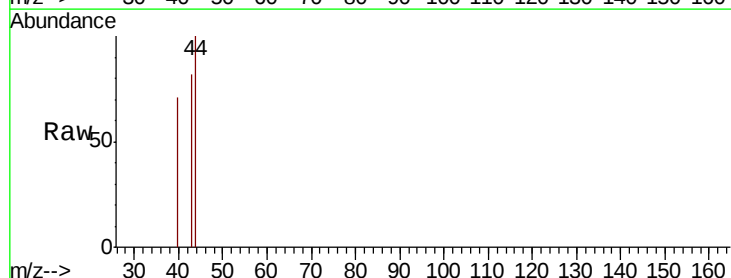


Abundance Ion 141.85 (141.55 to 142.55): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.85 (140.55 to 141.55): V

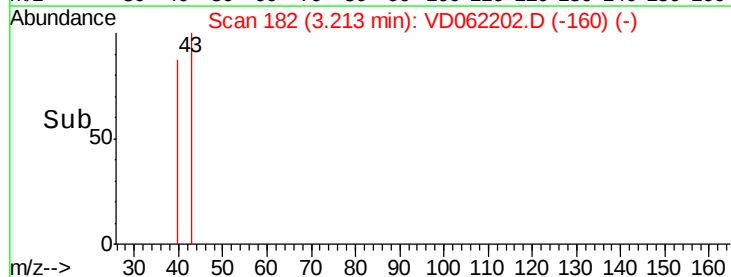
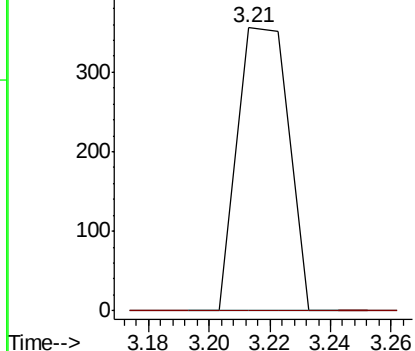


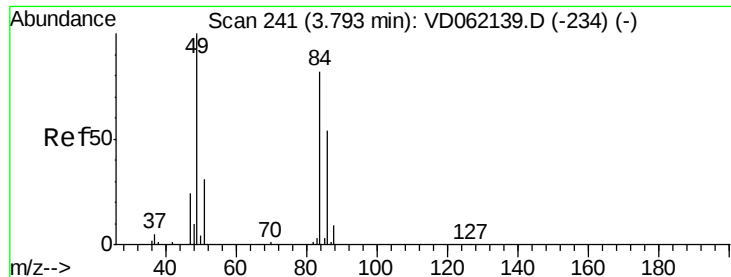
#16  
Acetone  
Concen: 9.577 ug/l  
RT: 3.21 min Scan# 182  
Delta R.T. 0.02 min  
Lab File: VD062202.D  
Acq: 9 May 2019 21:45

Tgt Ion: 43 Resp: 418  
Ion Ratio Lower Upper  
43 100  
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): V  
Ion 57.95 (57.65 to 58.65): V

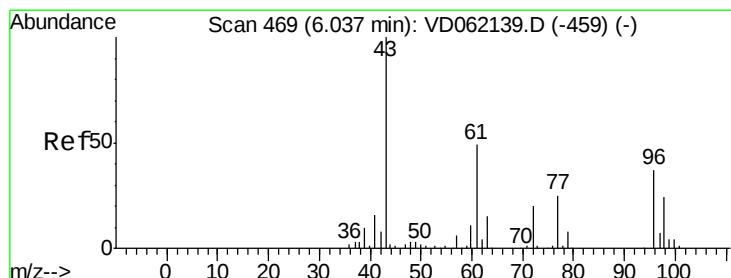
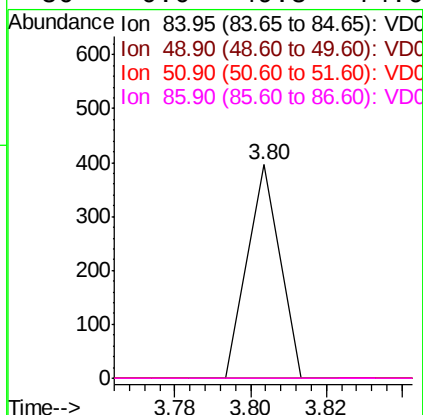
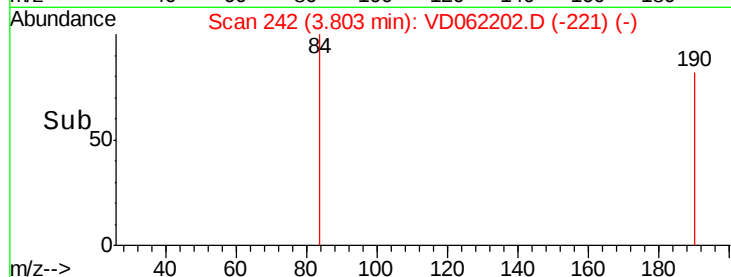
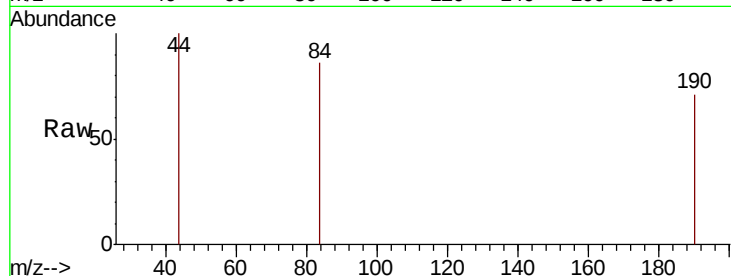




#20  
Methylene Chloride  
Concen: 1.284 ug/l  
RT: 3.80 min Scan# 242  
Delta R.T. 0.01 min  
Lab File: VD062202.D  
Acq: 9 May 2019 21:45

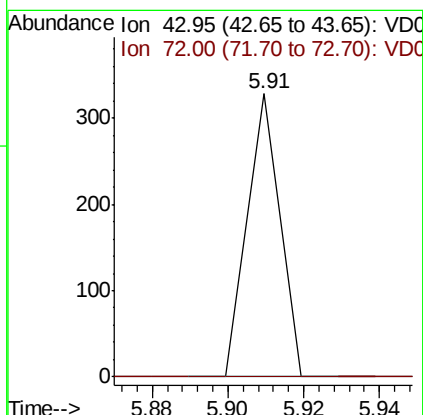
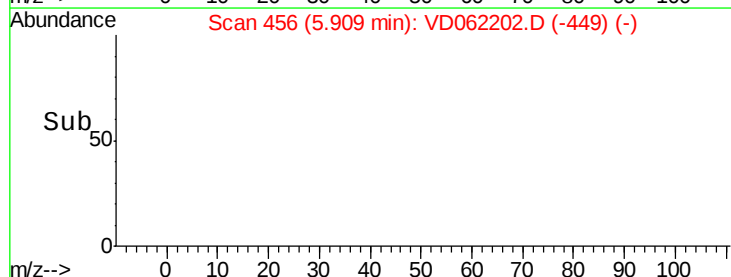
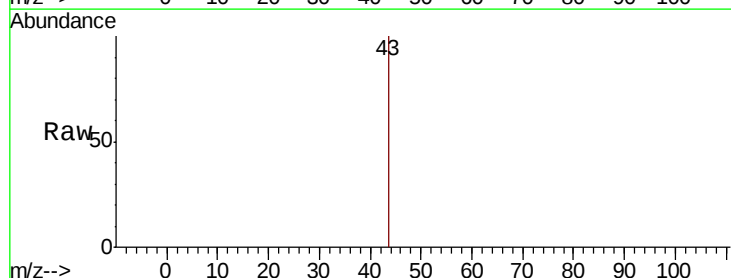
Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS003-0002-01

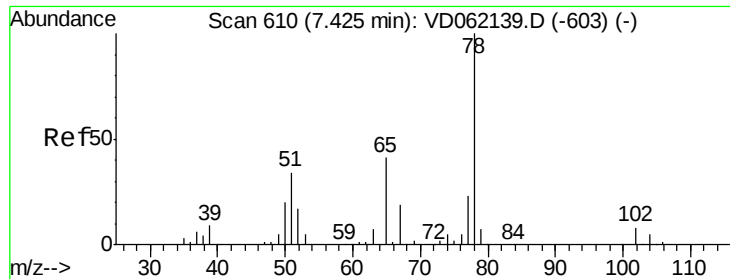
Tgt Ion: 84 Resp: 234  
Ion Ratio Lower Upper  
84 100  
49 0.0 94.0 141.0#  
51 0.0 29.0 43.4#  
86 0.0 49.8 74.6#



#25  
2-Butanone  
Concen: 4.075 ug/l  
RT: 5.91 min Scan# 456  
Delta R.T. -0.13 min  
Lab File: VD062202.D  
Acq: 9 May 2019 21:45

Tgt Ion: 43 Resp: 194  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.2 24.4#

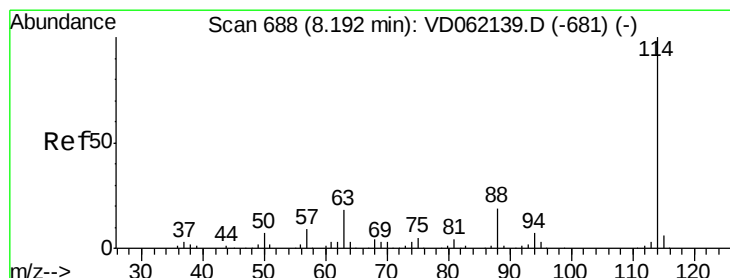
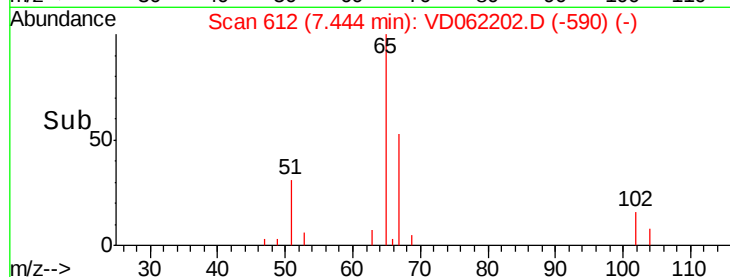
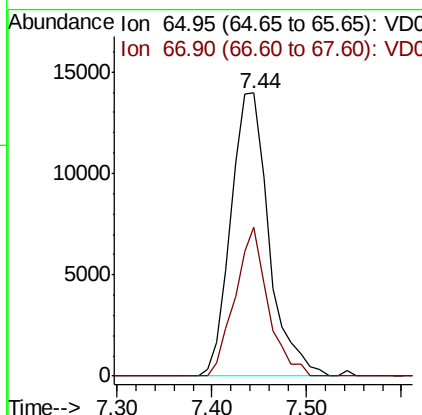
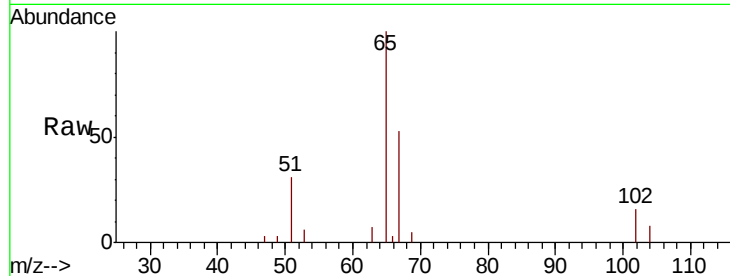




#33  
 1,2-Dichloroethane-d4  
 Concen: 186.610 ug/l  
 RT: 7.44 min Scan# 612  
 Delta R.T. 0.02 min  
 Lab File: VD062202.D  
 Acq: 9 May 2019 21:45

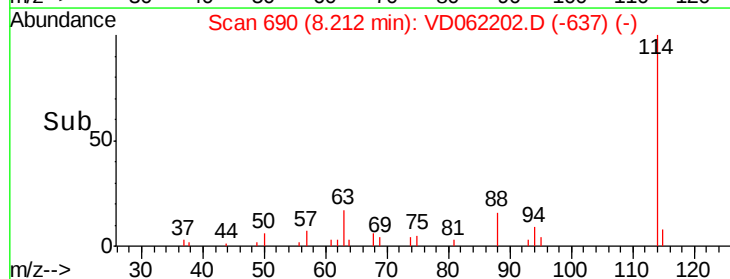
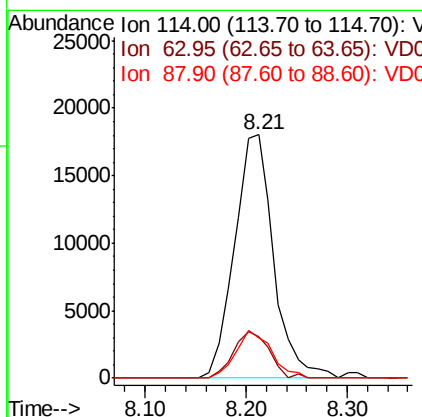
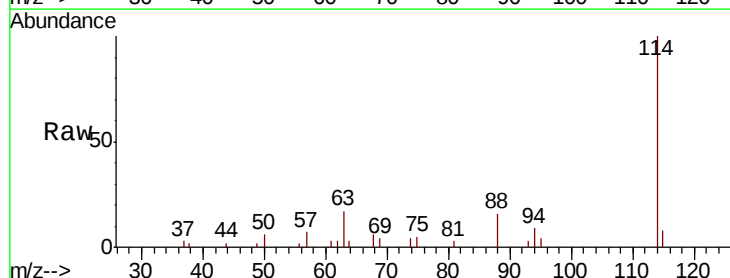
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS003-0002-01

Tgt Ion: 65 Resp: 38839  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 98.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 690  
 Delta R.T. 0.02 min  
 Lab File: VD062202.D  
 Acq: 9 May 2019 21:45

Tgt Ion: 114 Resp: 48500  
 Ion Ratio Lower Upper  
 114 100  
 63 16.8 0.0 32.4  
 88 16.3 0.0 33.6





#35

Dibromofluoromethane

Concen: 81.285 ug/l

RT: 6.91 min Scan# 558

Delta R.T. 0.02 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0002-01

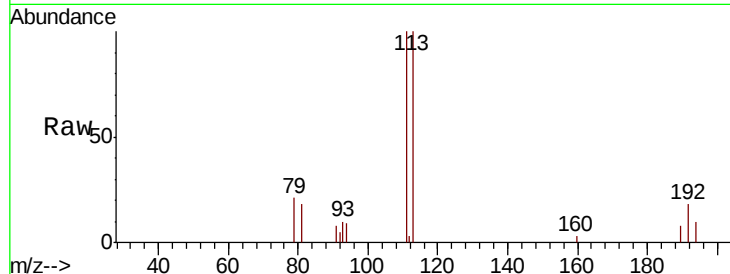
Tgt Ion:113 Resp: 32710

Ion Ratio Lower Upper

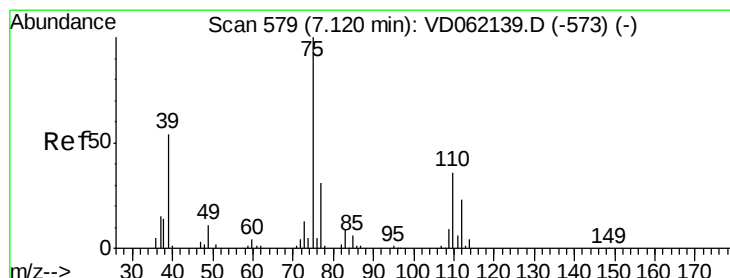
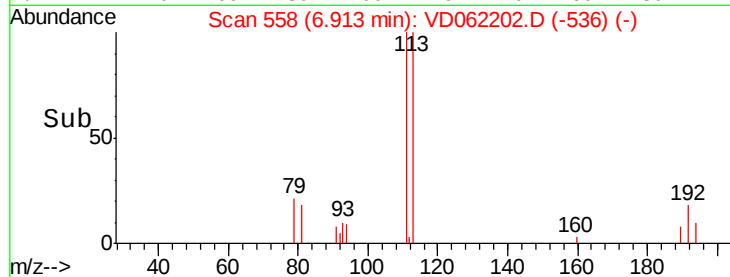
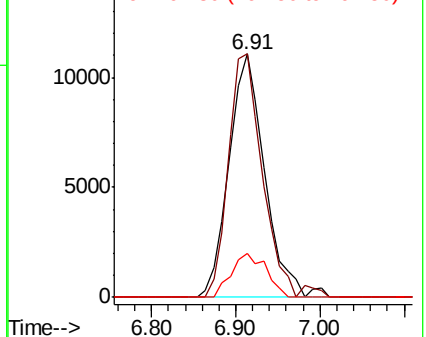
113 100

111 100.1 78.5 117.7

192 18.2 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: 3.830 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.07 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

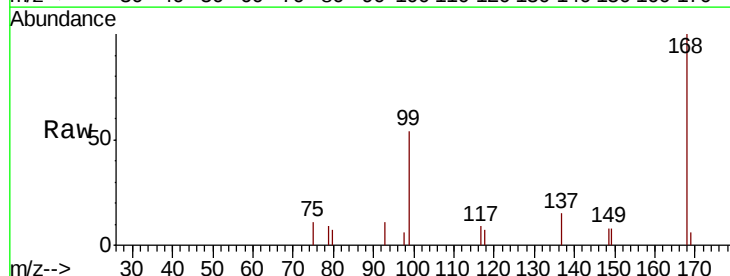
Tgt Ion: 75 Resp: 1523

Ion Ratio Lower Upper

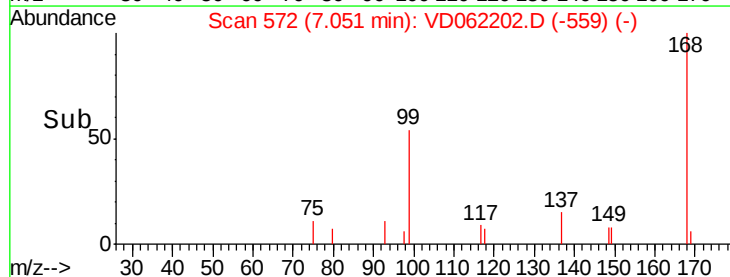
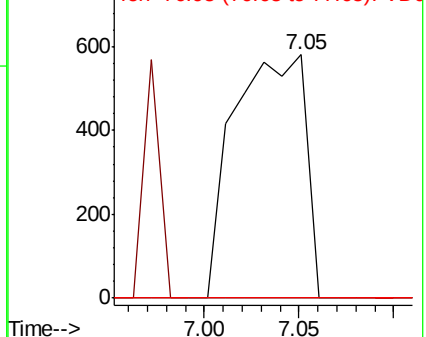
75 100

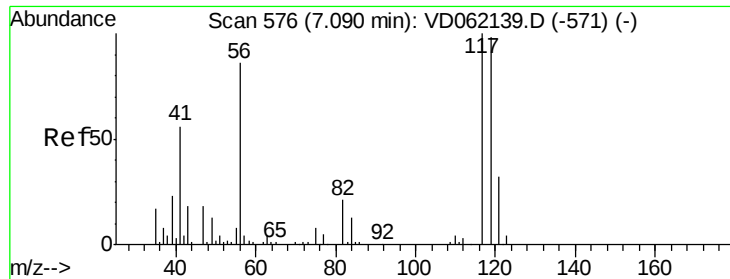
110 0.0 19.1 57.1#

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

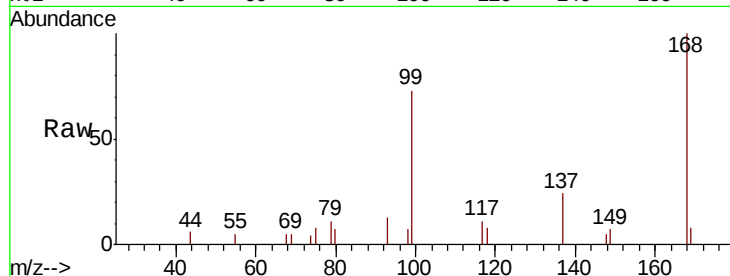




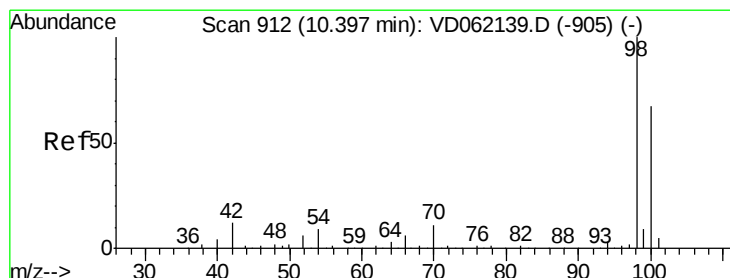
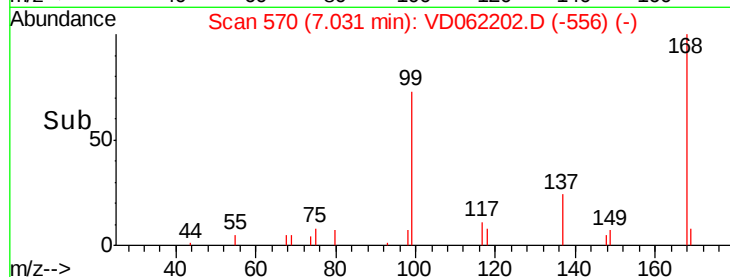
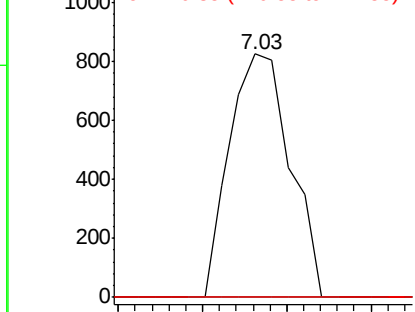
#38  
Carbon Tetrachloride  
Concen: 3.734 ug/l  
RT: 7.03 min Scan# 570  
Delta R.T. -0.06 min  
Lab File: VD062202.D  
Acq: 9 May 2019 21:45

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS003-0002-01

Tgt Ion: 117 Resp: 2055  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.8 113.8#  
121 0.0 25.9 38.9#

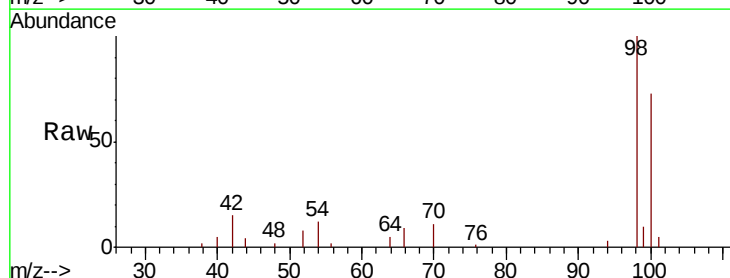


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

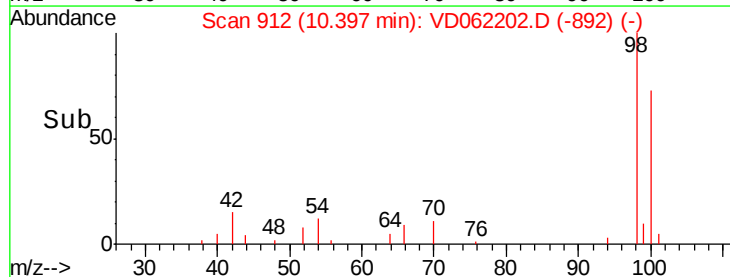
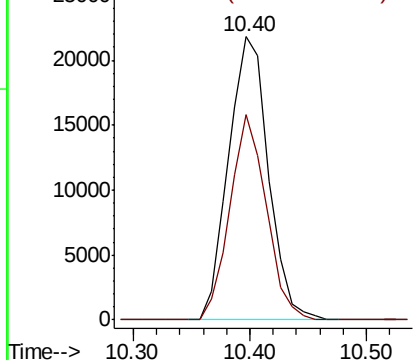


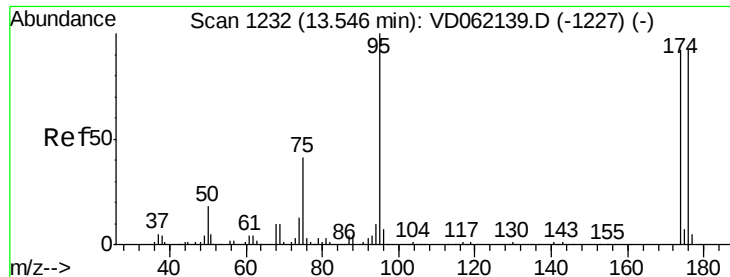
#50  
Toluene-d8  
Concen: 53.225 ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: VD062202.D  
Acq: 9 May 2019 21:45

Tgt Ion: 98 Resp: 51641  
Ion Ratio Lower Upper  
98 100  
100 72.7 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: 64.487 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0002-01

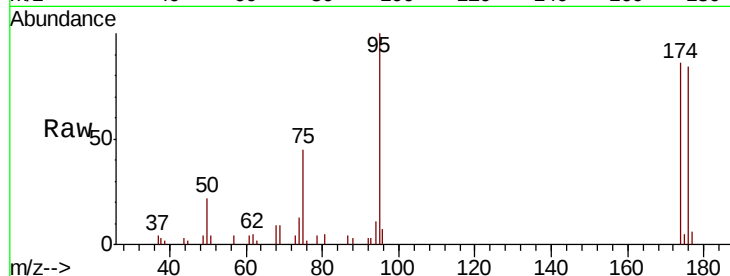
Tgt Ion: 95 Resp: 25125

Ion Ratio Lower Upper

95 100

174 86.0 0.0 181.8

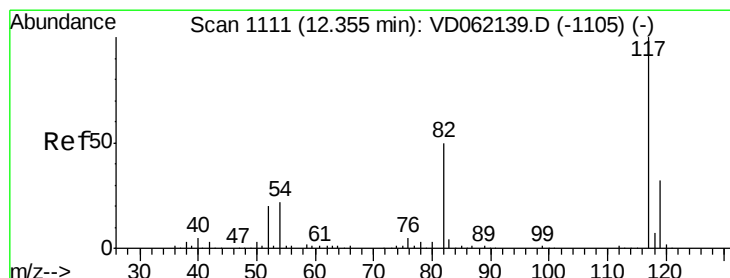
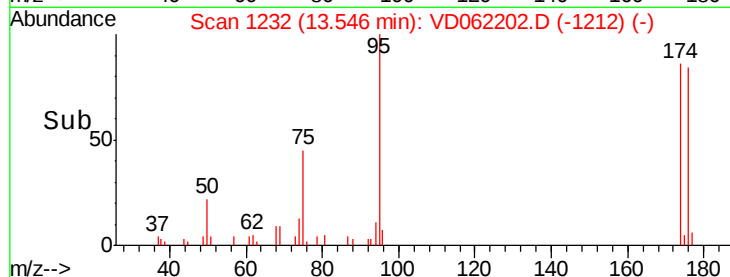
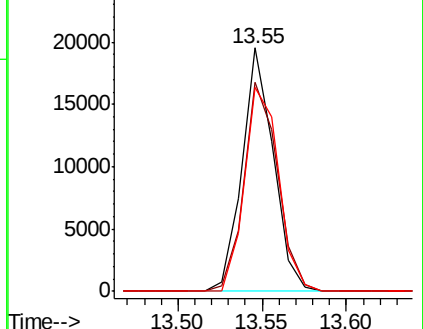
176 83.5 0.0 174.4



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: 12.36 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

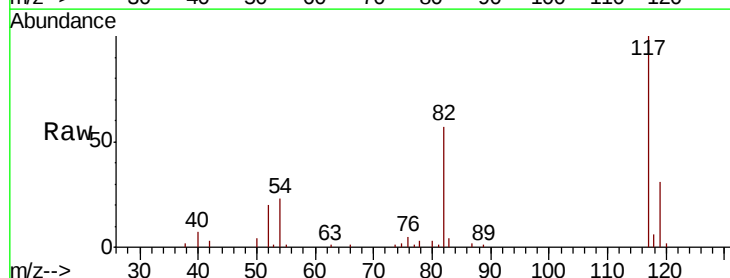
Tgt Ion: 117 Resp: 50917

Ion Ratio Lower Upper

117 100

82 57.0 36.2 54.2#

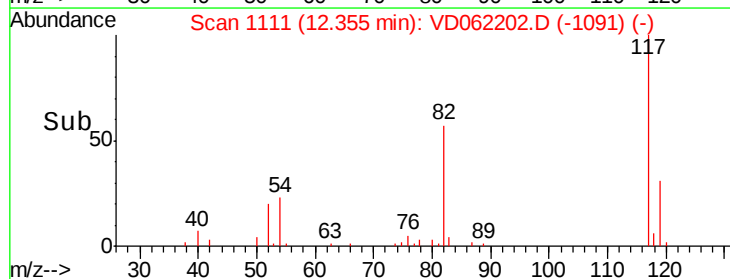
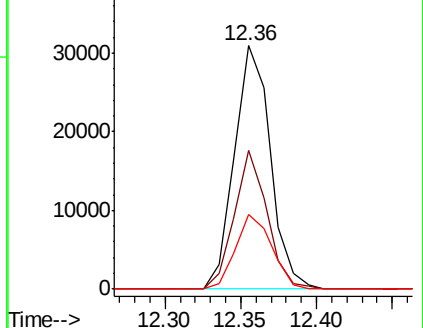
119 30.8 26.2 39.4

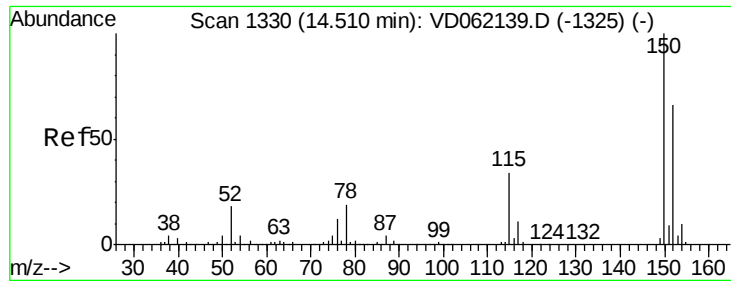


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.51 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS003-0002-01

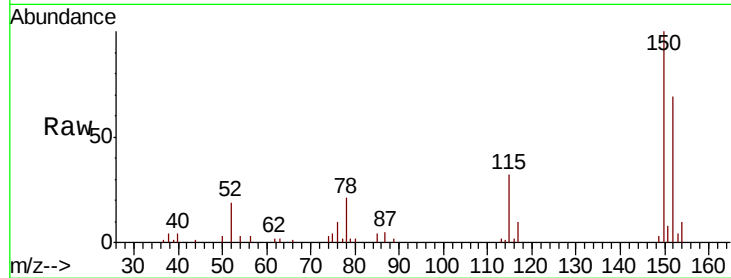
Tgt Ion:152 Resp: 24460

Ion Ratio Lower Upper

152 100

115 46.0 30.9 92.7

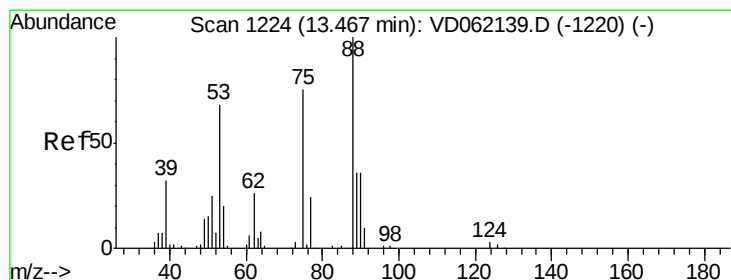
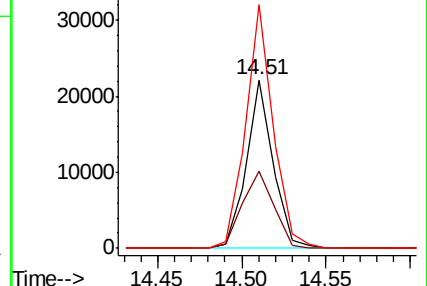
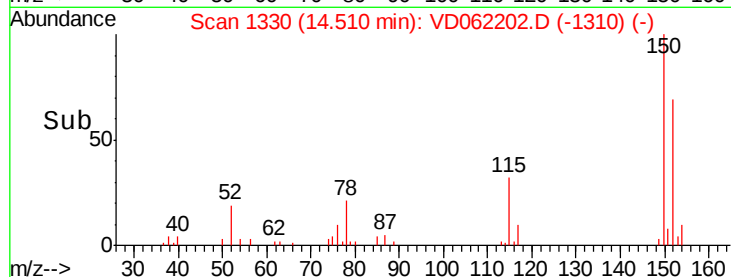
150 144.7 0.0 314.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 135.689 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062202.D

Acq: 9 May 2019 21:45

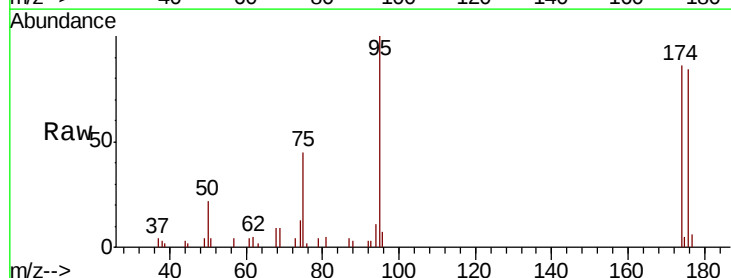
Tgt Ion: 75 Resp: 11135

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): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

