

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051319\  
 Data File : VD062309.D  
 Acq On : 13 May 2019 17:16  
 Operator : FY/SY  
 Sample : K2734-06RE  
 Misc : 3.84g/5mL/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS012-0002-02

Quant Time: May 14 05:11:23 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      | 7.07  | 168  | 533139   | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 653739   | 50.00 | ug/l  | 0.04     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 283881   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 47169    | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.47  | 65   | 264101   | 53.30 | ug/l    | 0.04     |
| Spiked Amount               |       |      | Recovery | =     | 106.60% |          |
| 35) Dibromofluoromethane    | 6.95  | 113  | 291899   | 53.81 | ug/l    | 0.05     |
| Spiked Amount               |       |      | Recovery | =     | 107.62% |          |
| 50) Toluene-d8              | 10.42 | 98   | 421216   | 32.21 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 64.42%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 74632    | 14.21 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 28.42%  |          |

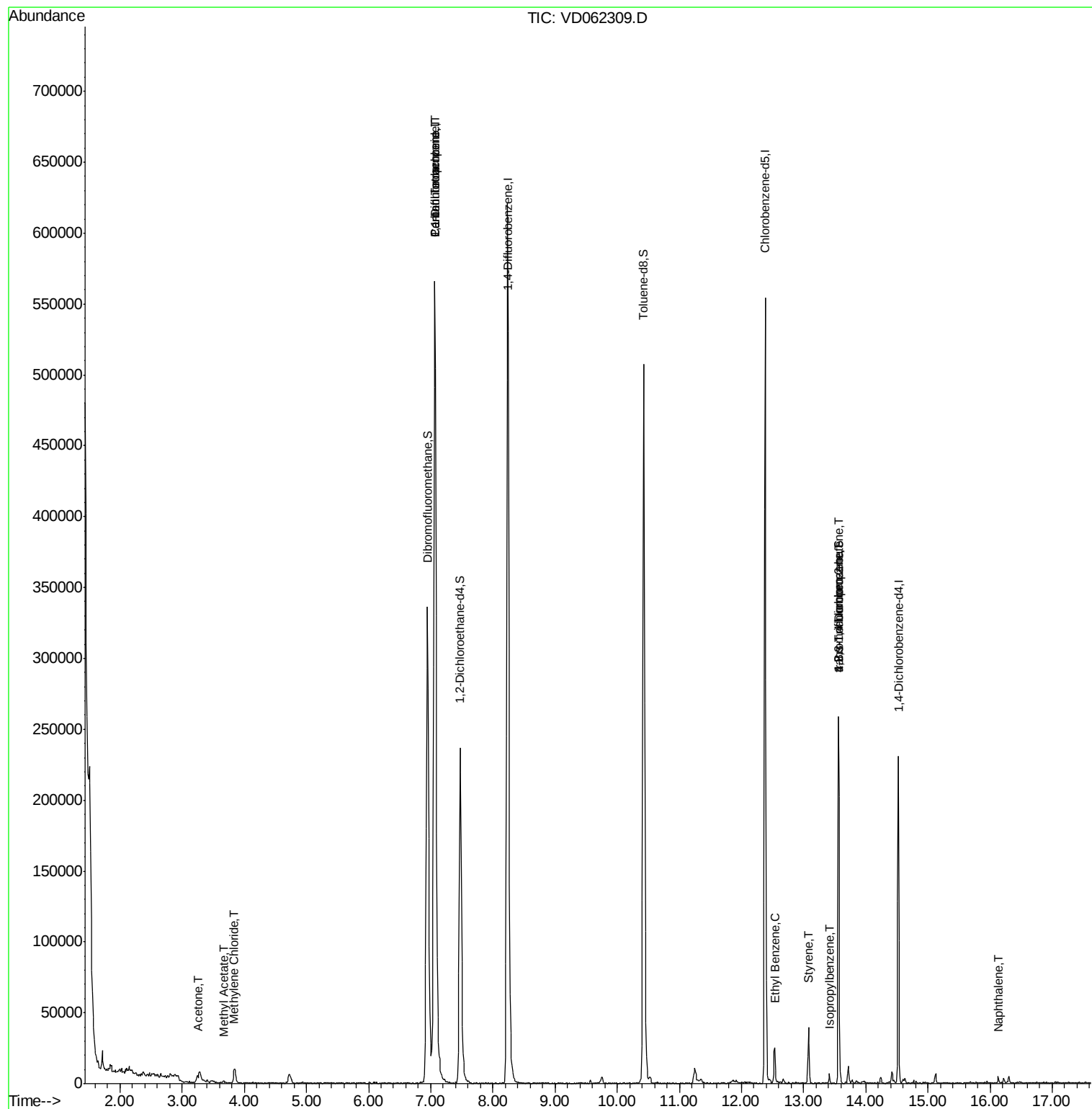
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 3.25  | 43   | 9601     | 9.240   | ug/l   | 92     |
| 18) Methyl Acetate             | 3.66  | 43   | 2489     | 1.042   | ug/l # | 53     |
| 20) Methylene Chloride         | 3.85  | 84   | 6339     | 1.461   | ug/l # | 80     |
| 36) 1,1-Dichloropropene        | 7.07  | 75   | 43453    | 8.107   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.07  | 117  | 57868    | 7.800   | ug/l # | 16     |
| 67) Ethyl Benzene              | 12.54 | 91   | 18564    | 2.097   | ug/l   | 93     |
| 70) Styrene                    | 13.08 | 104  | 15896    | 3.134   | ug/l   | 95     |
| 73) Isopropylbenzene           | 13.41 | 105  | 4317     | 1.527   | ug/l   | 86     |
| 76) 1,2,3-Trichloropropane     | 13.56 | 75   | 33575    | 59.895  | ug/l # | 42     |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 34074    | 215.316 | ug/l # | 16     |
| 95) Naphthalene                | 16.13 | 128  | 3445     | 2.847   | ug/l   | 94     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051319\  
Data File : VD062309.D  
Acq On : 13 May 2019 17:16  
Operator : FY/SY  
Sample : K2734-06RE  
Misc : 3.84g/5mL/MSVOA D/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS012-0002-02

Quant Time: May 14 05:11:23 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

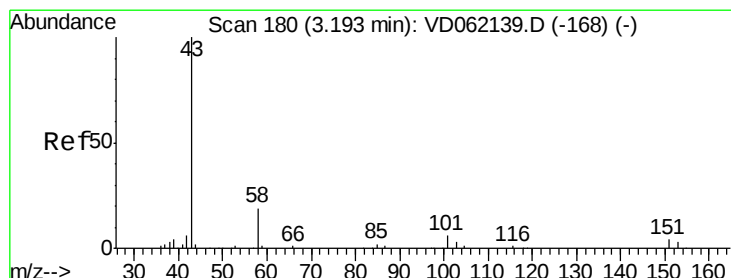
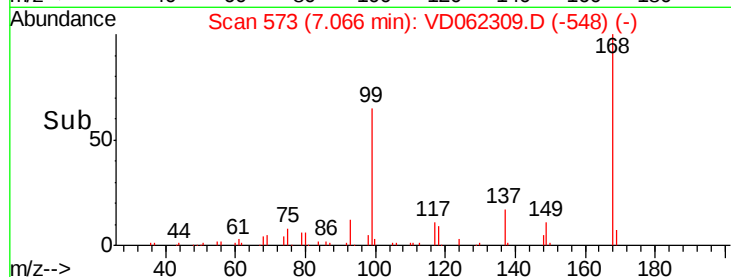
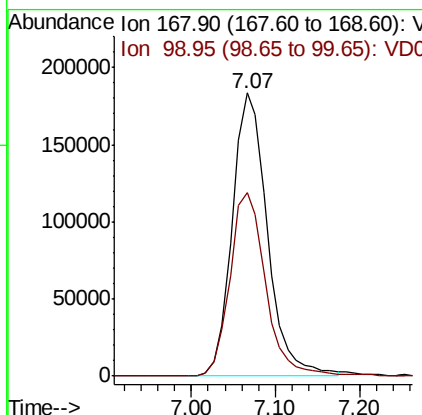
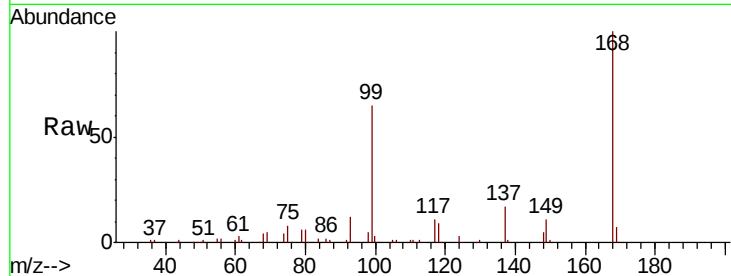




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.07 min Scan# 573  
Delta R.T. 0.04 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

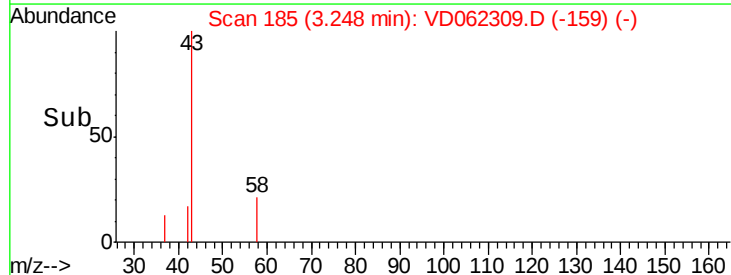
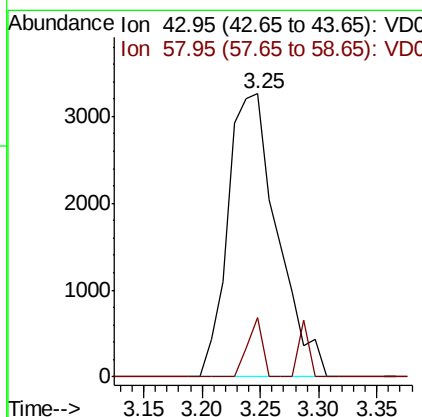
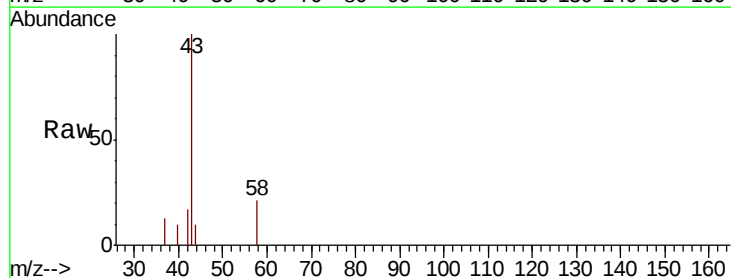
Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS012-0002-02

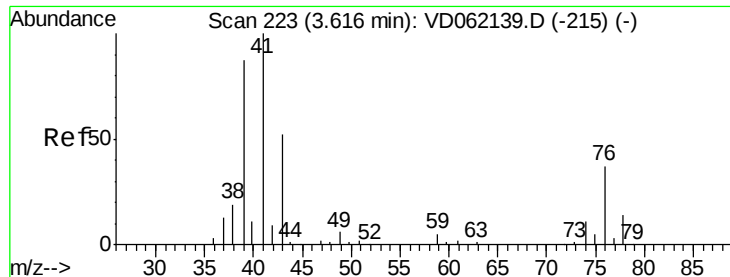
Tot Ion:168 Resp: 533139  
Ion Ratio Lower Upper  
168 100  
99 64.6 46.5 69.7



#16  
Acetone  
Concen: 9.240 ug/l  
RT: 3.25 min Scan# 185  
Delta R.T. 0.05 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

Tgt Ion: 43 Resp: 9601  
Ion Ratio Lower Upper  
43 100  
58 21.1 19.9 29.9

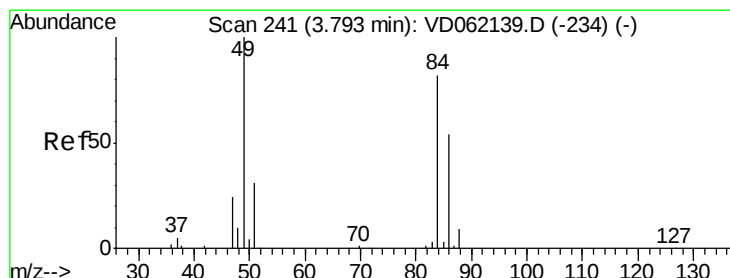
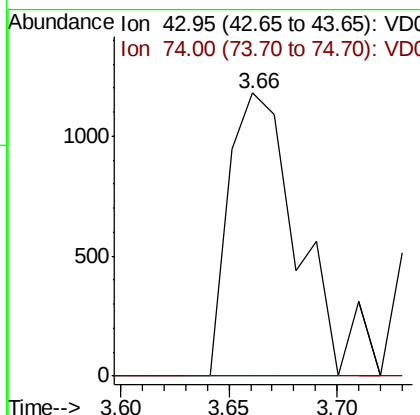
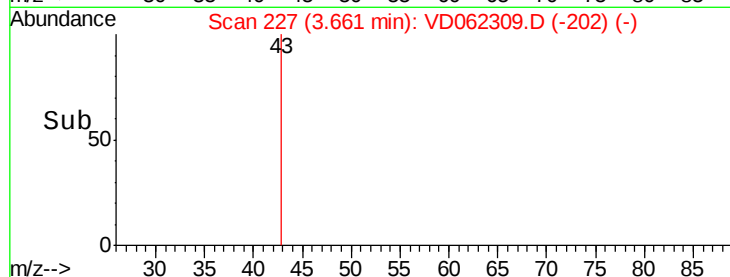
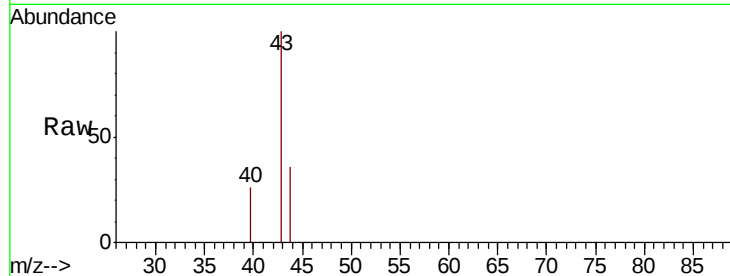




#18  
Methyl Acetate  
Concen: 1.042 ug/l  
RT: 3.66 min Scan# 227  
Delta R.T. 0.04 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

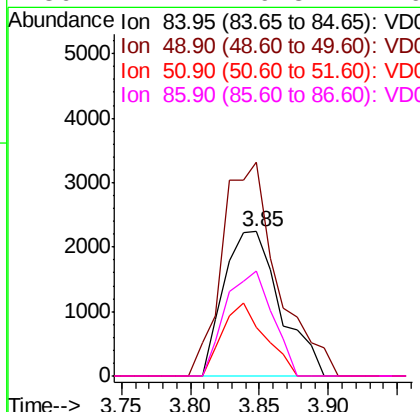
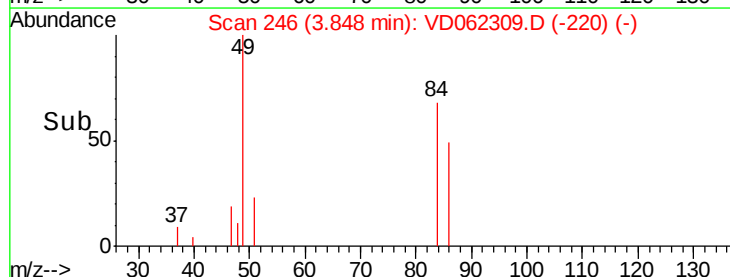
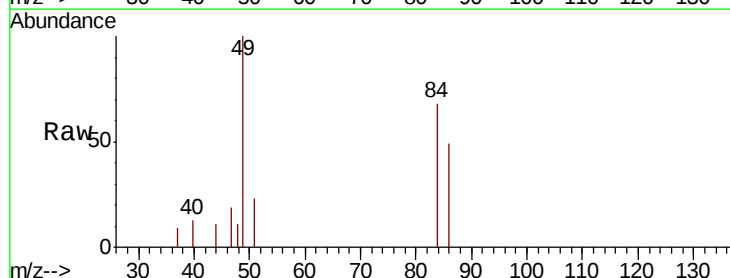
Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS012-0002-02

Tot Ion: 43 Resp: 2489  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.0 27.0#



#20  
Methylene Chloride  
Concen: 1.461 ug/l  
RT: 3.85 min Scan# 246  
Delta R.T. 0.05 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

Tgt Ion: 84 Resp: 6339  
Ion Ratio Lower Upper  
84 100  
49 147.9 94.0 141.0#  
51 33.4 29.0 43.4  
86 72.4 49.8 74.6





#33

1,2-Dichloroethane-d4

Concen: 53.305 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062309.D

Acq: 13 May 2019 17:16

Instrument :

MSVOA\_D

ClientSampleId :

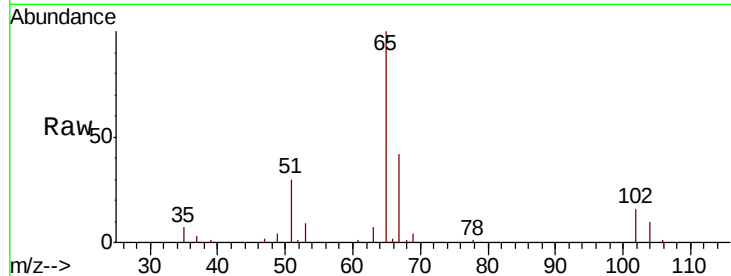
P026-SS012-0002-02

Tot Ion: 65 Resp: 264101

Ion Ratio Lower Upper

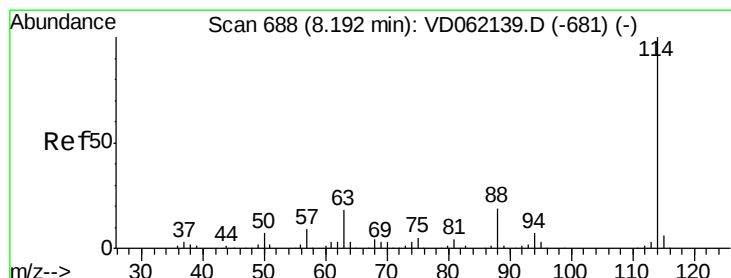
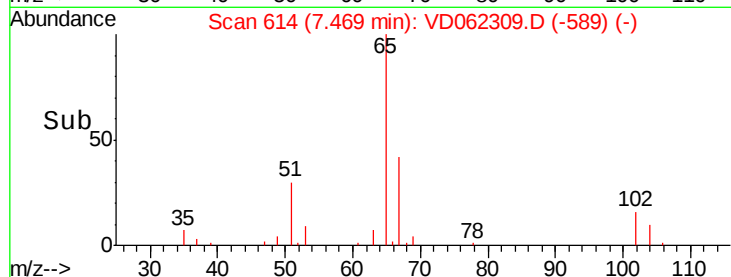
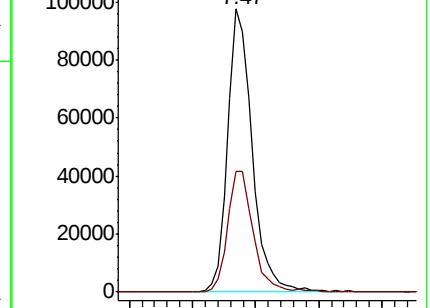
65 100

67 42.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.04 min

Lab File: VD062309.D

Acq: 13 May 2019 17:16

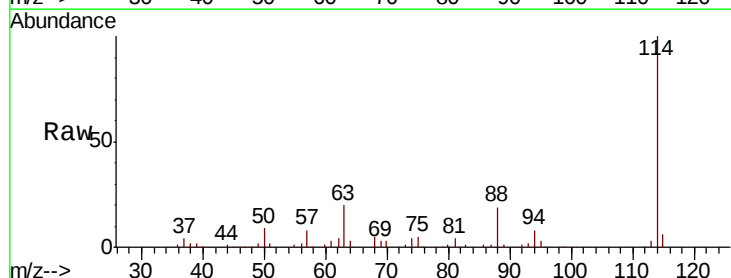
Tgt Ion: 114 Resp: 653739

Ion Ratio Lower Upper

114 100

63 20.2 0.0 32.4

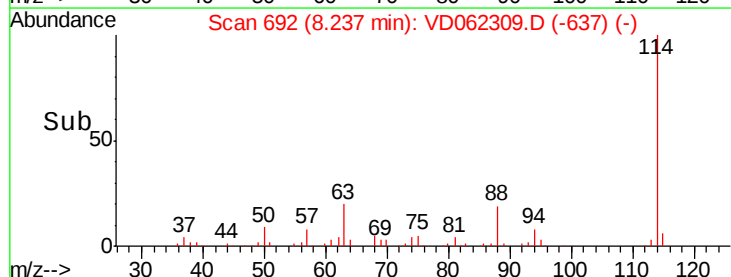
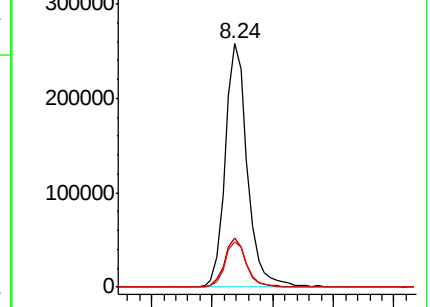
88 18.7 0.0 33.6



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

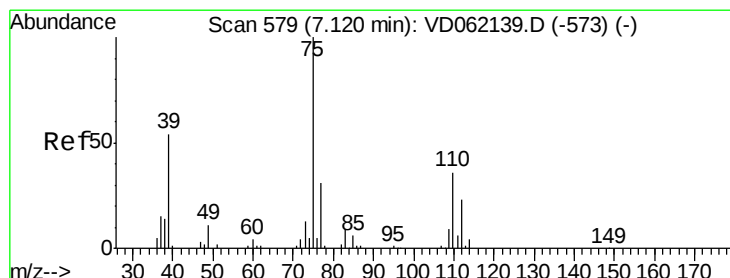
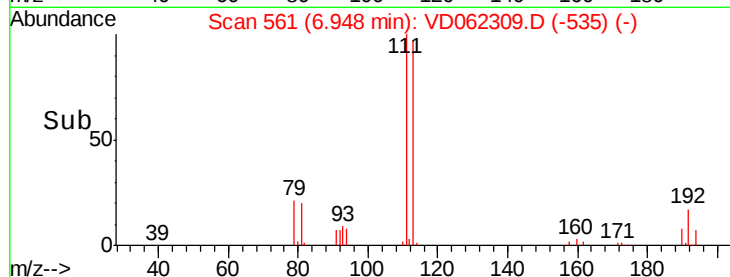
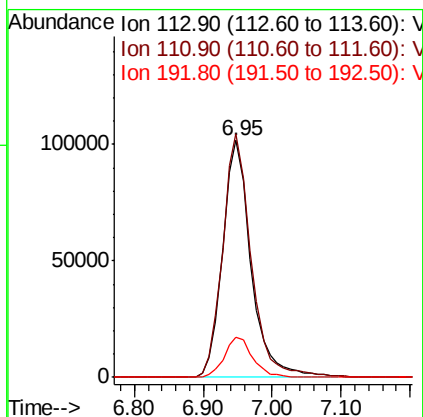
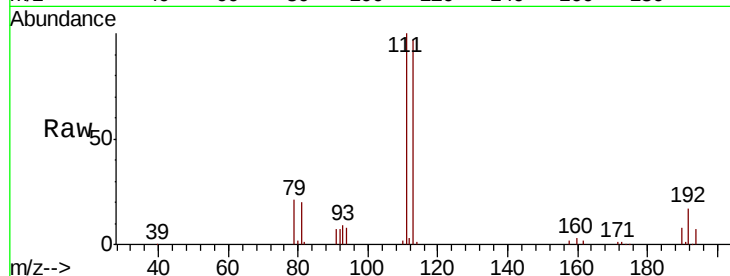




#35  
 Dibromofluoromethane  
 Concen: 53.815 ug/l  
 RT: 6.95 min Scan# 561  
 Delta R.T. 0.05 min  
 Lab File: VD062309.D  
 Acq: 13 May 2019 17:16

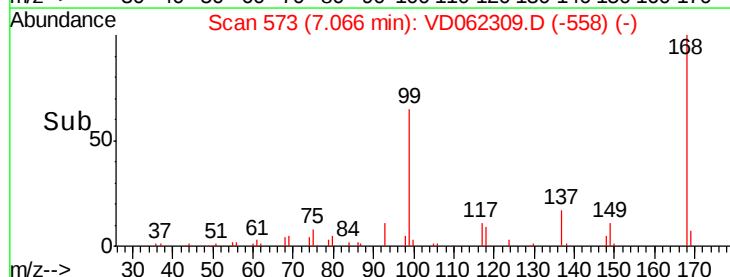
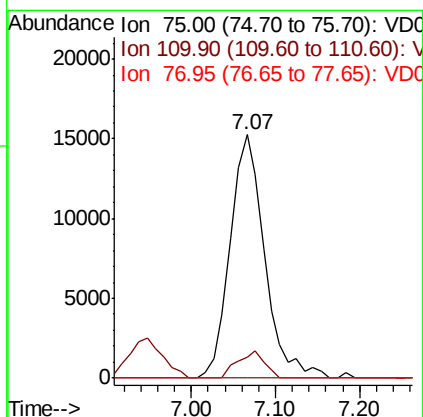
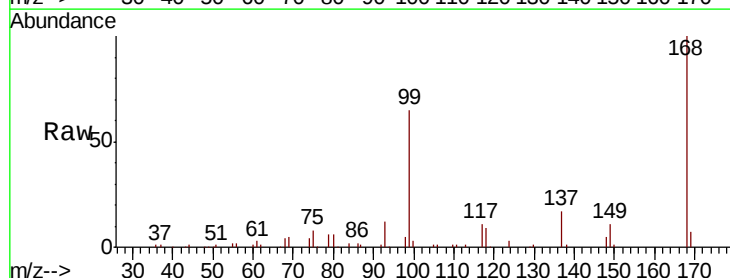
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS012-0002-02

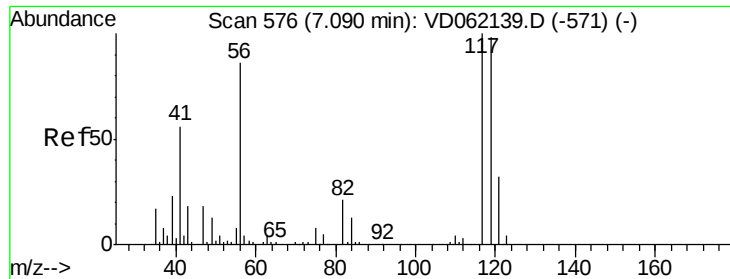
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 78.5  | 117.7 |
| 192     | 17.2  | 13.0  | 19.4  |



#36  
 1,1-Dichloropropene  
 Concen: 8.107 ug/l  
 RT: 7.07 min Scan# 573  
 Delta R.T. -0.05 min  
 Lab File: VD062309.D  
 Acq: 13 May 2019 17:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 19.1  | 57.1# |
| 77      | 0.0   | 25.6  | 38.4# |

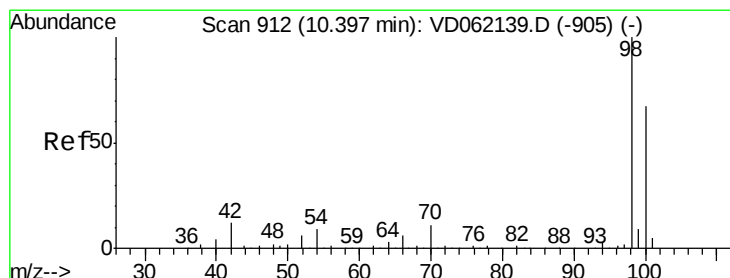
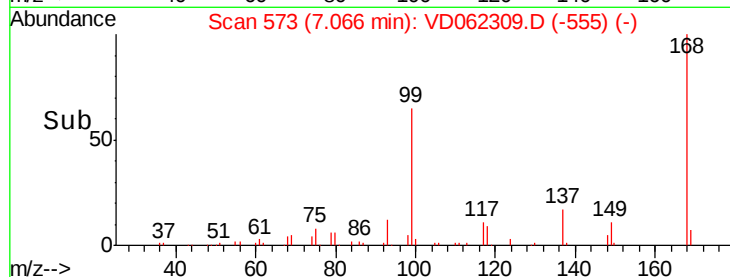
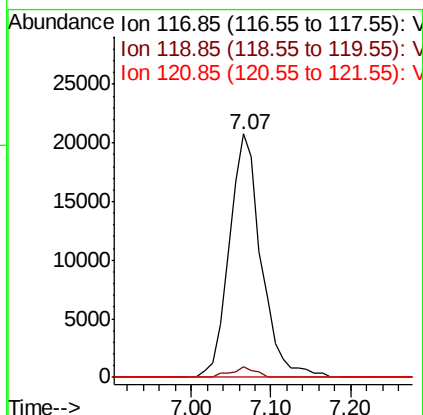
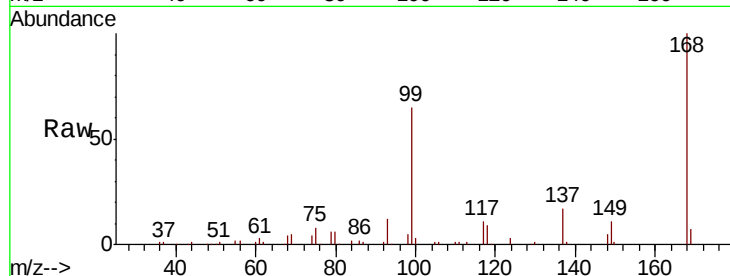




#38  
Carbon Tetrachloride  
Concen: 7.800 ug/l  
RT: 7.07 min Scan# 573  
Delta R.T. -0.02 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

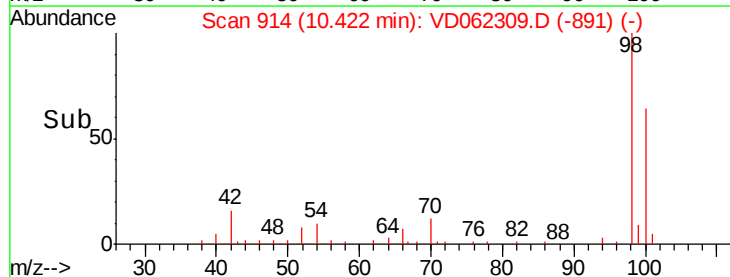
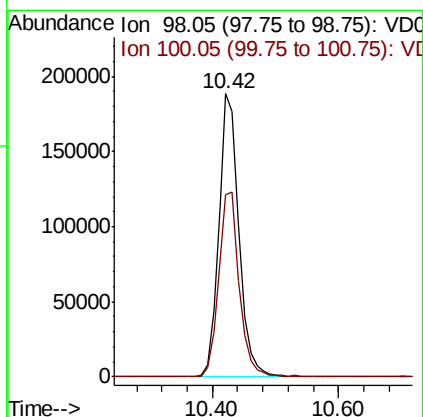
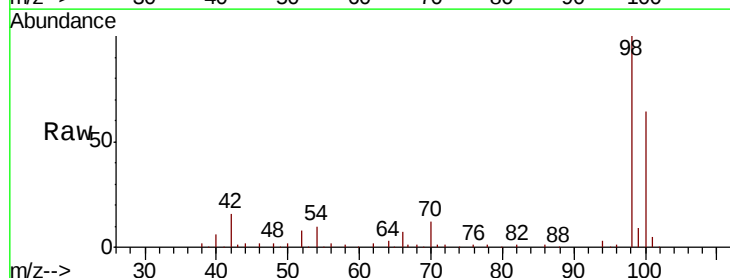
Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS012-0002-02

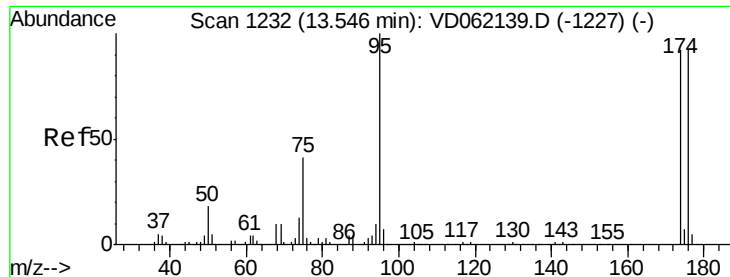
Tot Ion:117 Resp: 57868  
Ion Ratio Lower Upper  
117 100  
119 4.4 75.8 113.8#  
121 0.0 25.9 38.9#



#50  
Toluene-d8  
Concen: 32.208 ug/l  
RT: 10.42 min Scan# 914  
Delta R.T. 0.02 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

Tgt Ion: 98 Resp: 421216  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.8 80.8





#62

4-Bromofluorobenzene

Concen: 14.211 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062309.D

Acq: 13 May 2019 17:16

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS012-0002-02

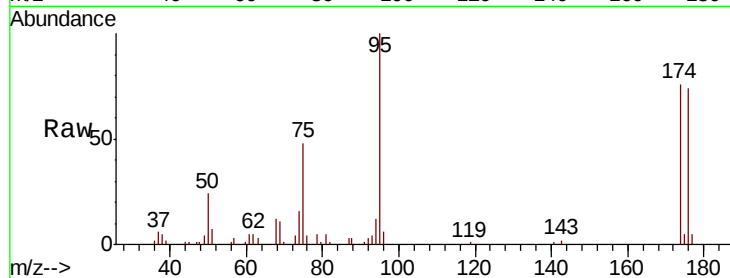
Tot Ion: 95 Resp: 74632

Ion Ratio Lower Upper

95 100

174 75.5 0.0 181.8

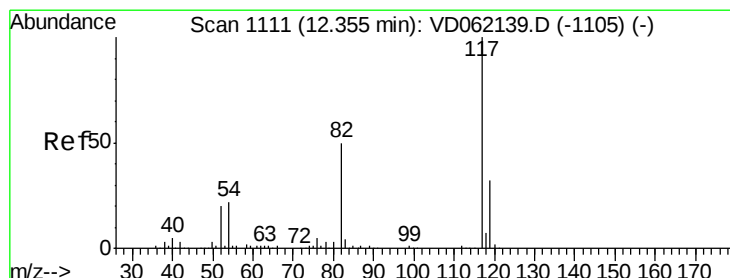
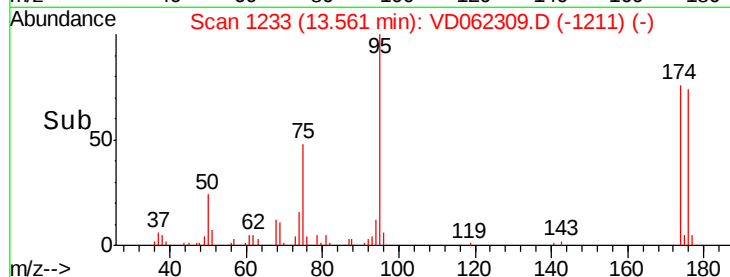
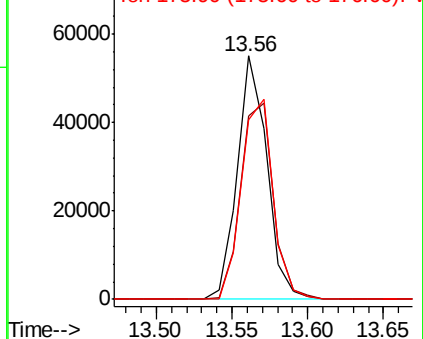
176 73.7 0.0 174.4



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: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD062309.D

Acq: 13 May 2019 17:16

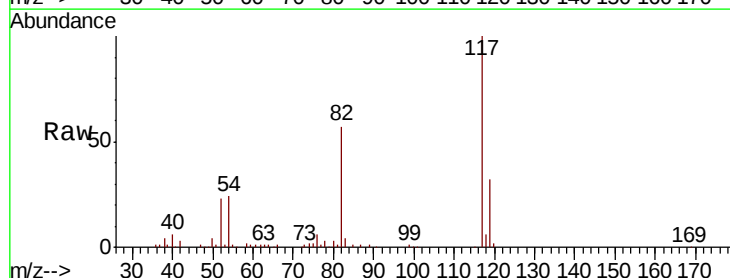
Tgt Ion: 117 Resp: 283881

Ion Ratio Lower Upper

117 100

82 57.0 36.2 54.2#

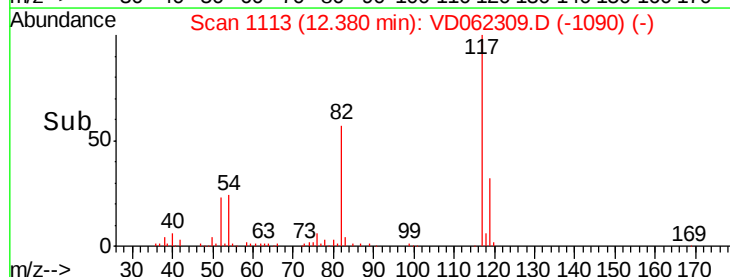
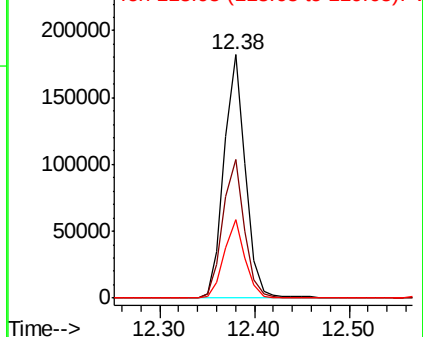
119 32.2 26.2 39.4

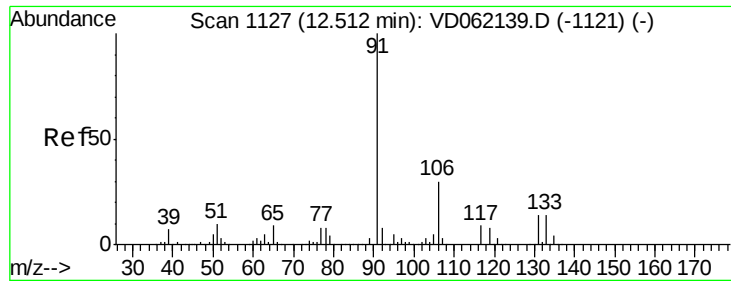


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

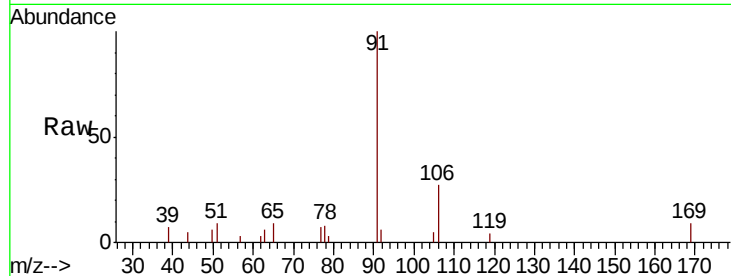




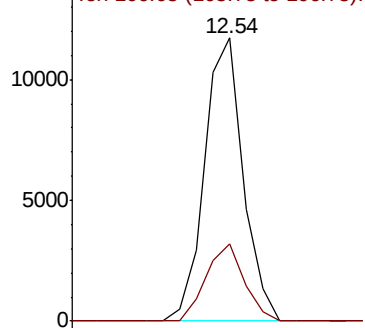
#67  
Ethyl Benzene  
Concen: 2.097 ug/l  
RT: 12.54 min Scan# 1129  
Delta R.T. 0.02 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS012-0002-02

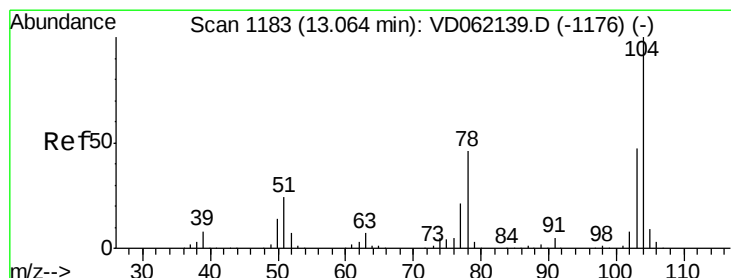
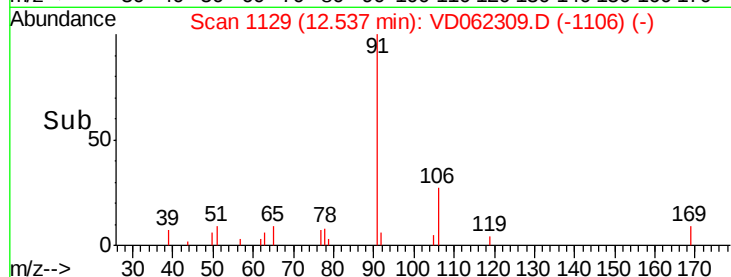
Tot Ion: 91 Resp: 18564  
Ion Ratio Lower Upper  
91 100  
106 27.2 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): V

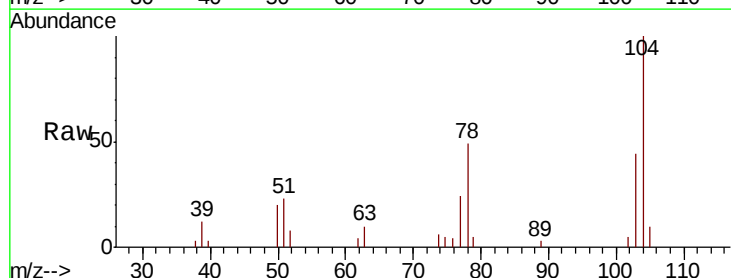


Time--> 12.45 12.50 12.55 12.60

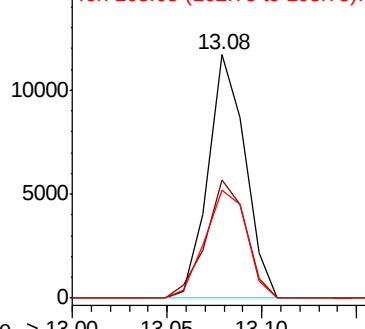


#70  
Styrene  
Concen: 3.134 ug/l  
RT: 13.08 min Scan# 1184  
Delta R.T. 0.02 min  
Lab File: VD062309.D  
Acq: 13 May 2019 17:16

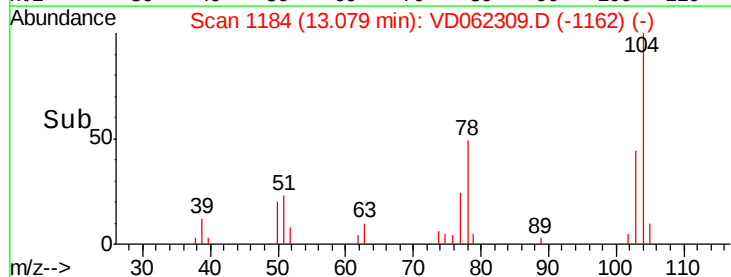
Tgt Ion: 104 Resp: 15896  
Ion Ratio Lower Upper  
104 100  
78 48.7 35.4 53.2  
103 44.3 37.5 56.3

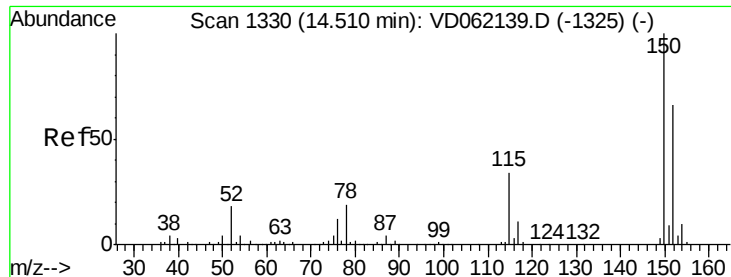


Abundance Ion 104.05 (103.75 to 104.75): V



Time--> 13.00 13.05 13.10





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.02 min

Lab File: VD062309.D

Acq: 13 May 2019 17:16

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS012-0002-02

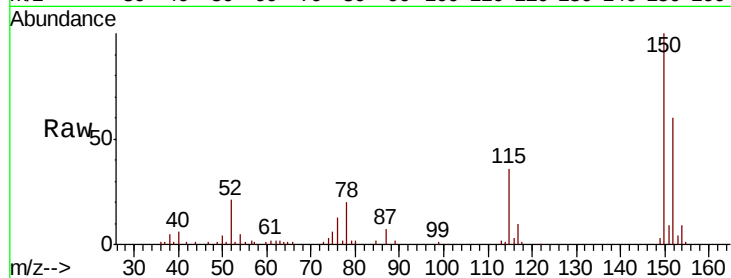
Tot Ion:152 Resp: 47169

Ion Ratio Lower Upper

152 100

115 60.4 30.9 92.7

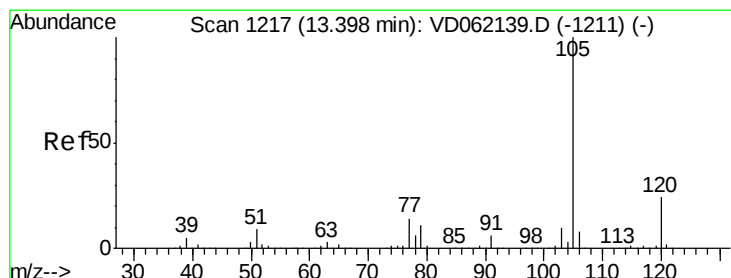
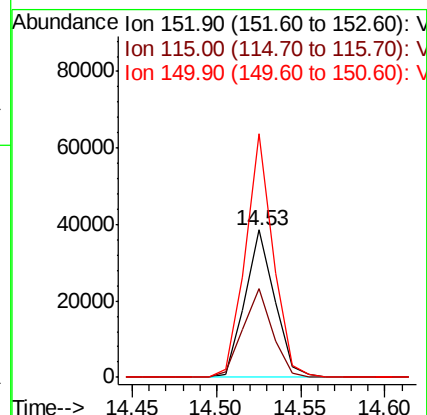
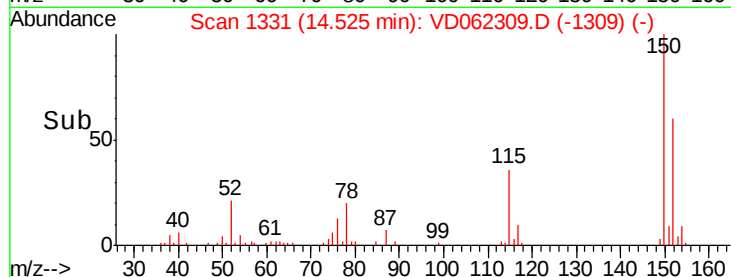
150 165.4 0.0 314.8



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



#73

Isopropylbenzene

Concen: 1.527 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.02 min

Lab File: VD062309.D

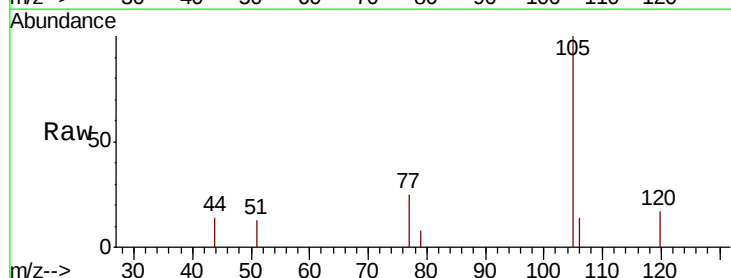
Acq: 13 May 2019 17:16

Tgt Ion:105 Resp: 4317

Ion Ratio Lower Upper

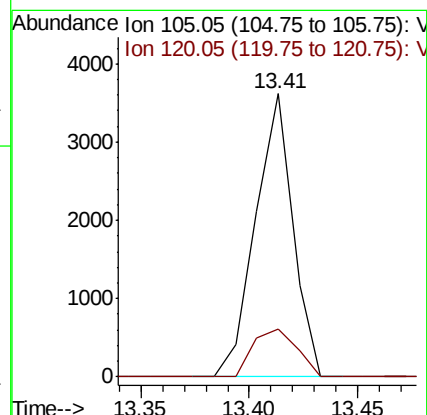
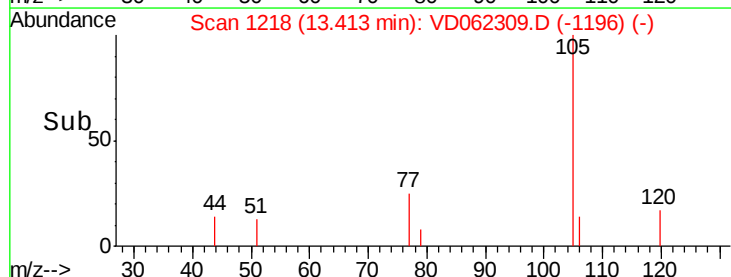
105 100

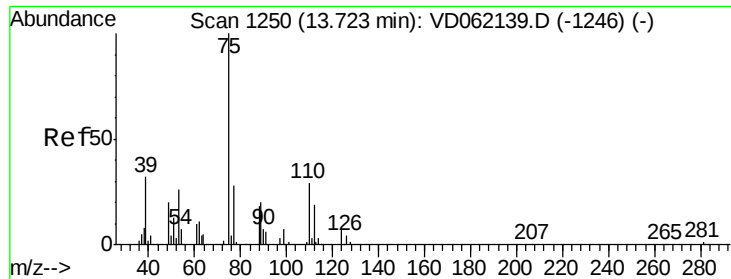
120 17.1 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#76

1,2,3-Trichloropropane

Concen: 59.895 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD062309.D

Acq: 13 May 2019 17:16

Instrument :

MSVOA\_D

ClientSampleId :

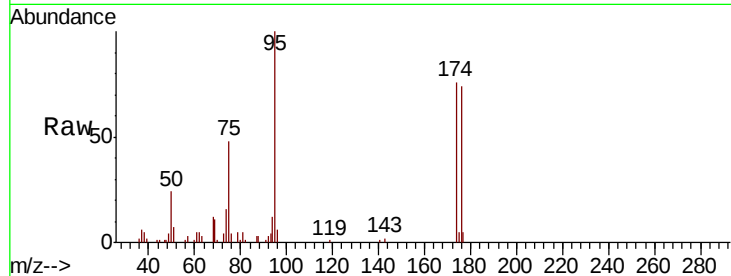
P026-SS012-0002-02

Tot Ion: 75 Resp: 33575

Ion Ratio Lower Upper

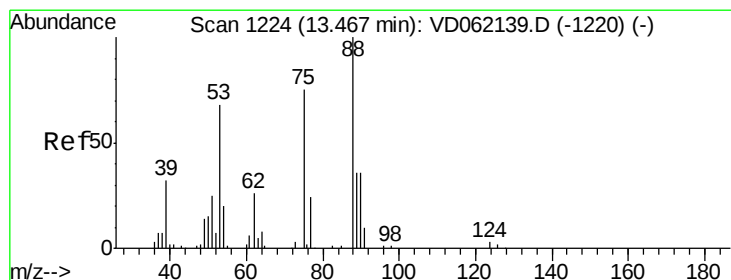
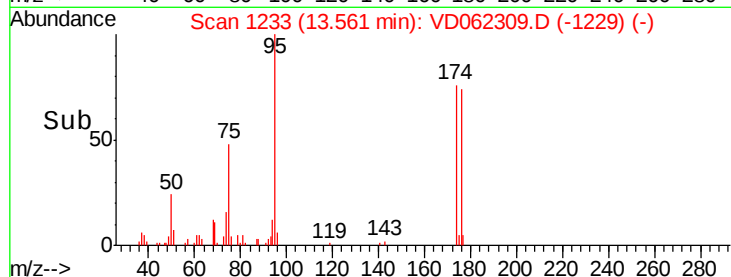
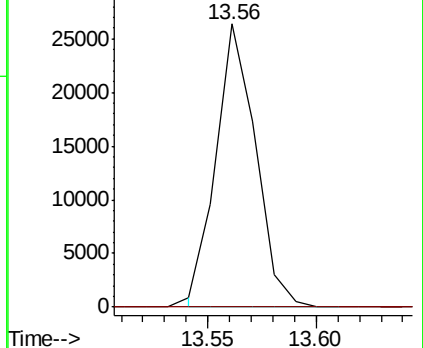
75 100

77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 215.316 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062309.D

Acq: 13 May 2019 17:16

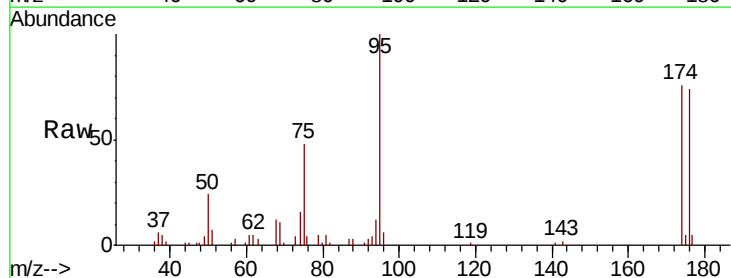
Tgt Ion: 75 Resp: 34074

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

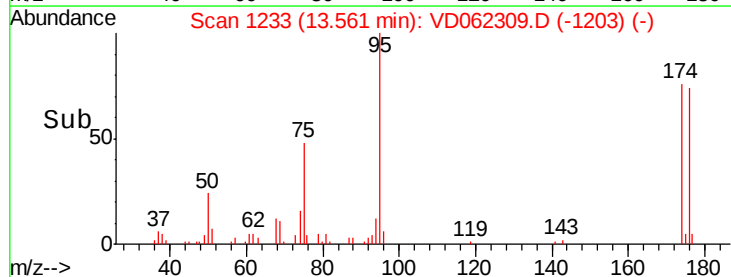
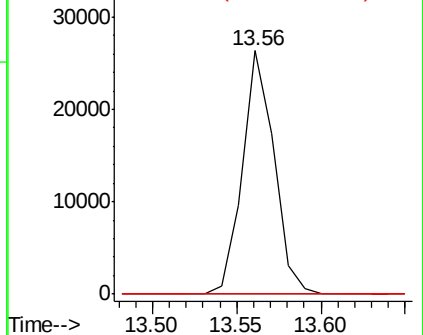
89 0.0 35.0 52.6#

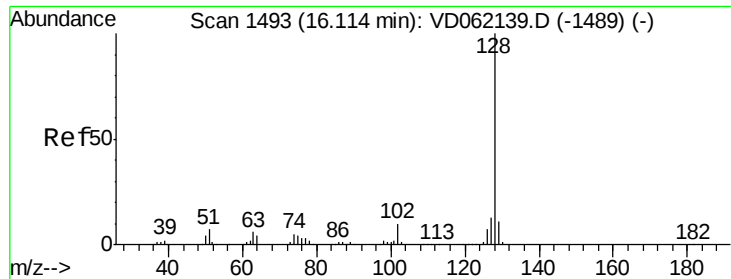


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 2.847 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.02 min

Lab File: VD062309.D

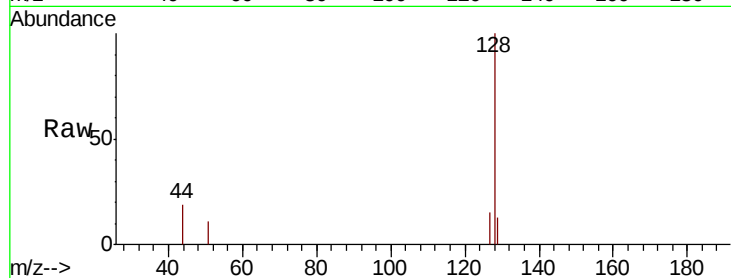
Acq: 13 May 2019 17:16

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS012-0002-02



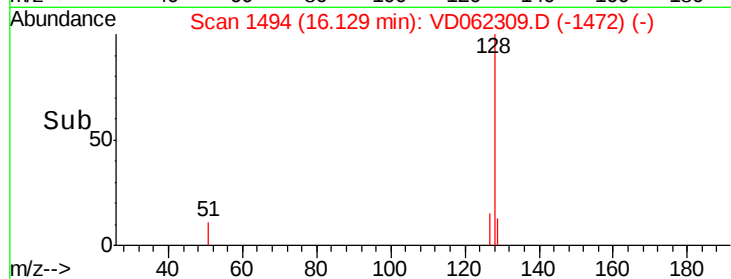
Tot Ion:128 Resp: 3445

Ion Ratio Lower Upper

128 100

127 14.5 9.8 14.8

129 13.1 8.8 13.2



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

