

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051419\  
 Data File : VD062374.D  
 Acq On : 15 May 2019 5:23  
 Operator : FY/SY  
 Sample : K2735-17RE  
 Misc : 5.05µ/5mL/MSVOA D/SOIL  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS017-1824-01RE

Quant Time: May 15 06:34:13 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  | 33044    | 50.00   | ug/l    | 0.05     |
| 34) 1,4-Difluorobenzene        | 8.24  | 114  | 58798    | 50.00   | ug/l    | 0.05     |
| 63) Chlorobenzene-d5           | 12.38 | 117  | 45828    | 50.00   | ug/l    | 0.02     |
| 72) 1,4-Dichlorobenzene-d4     | 14.53 | 152  | 16840    | 50.00   | ug/l    | 0.02     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.47  | 65   | 31748    | 103.39  | ug/l    | 0.05     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 206.78% |          |
| 35) Dibromofluoromethane       | 6.94  | 113  | 24271    | 49.75   | ug/l    | 0.05     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 99.50%  |          |
| 50) Toluene-d8                 | 10.43 | 98   | 33877    | 28.80   | ug/l    | 0.03     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 57.60%  |          |
| 62) 4-Bromofluorobenzene       | 13.57 | 95   | 17637    | 37.34   | ug/l    | 0.02     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 74.68%  |          |
| Target Compounds               |       |      |          |         |         |          |
|                                |       |      |          |         | Qvalue  |          |
| 5) Bromomethane                | 2.15  | 94   | 554      | 10.535  | ug/l #  | 12       |
| 16) Acetone                    | 3.23  | 43   | 2377     | 36.911  | ug/l #  | 50       |
| 36) 1,1-Dichloropropene        | 7.06  | 75   | 1834     | 3.804   | ug/l #  | 40       |
| 38) Carbon Tetrachloride       | 7.06  | 117  | 3092     | 4.634   | ug/l #  | 12       |
| 74) N-amyl acetate             | 13.26 | 43   | 373      | 1.409   | ug/l #  | 49       |
| 76) 1,2,3-Trichloropropane     | 13.56 | 75   | 6855     | 34.253  | ug/l #  | 42       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 7244     | 128.217 | ug/l #  | 16       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.05 min

Lab File: VD062374.D

Acq: 15 May 2019 5:23

Instrument :

MSVOA\_D

ClientSampleId :

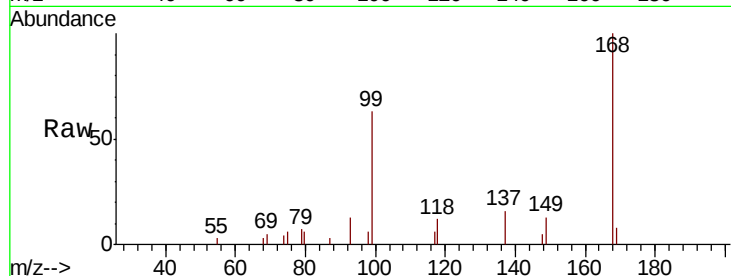
P026-SS017-1824-01RE

Tot Ion:168 Resp: 33044

Ion Ratio Lower Upper

168 100

99 62.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.07

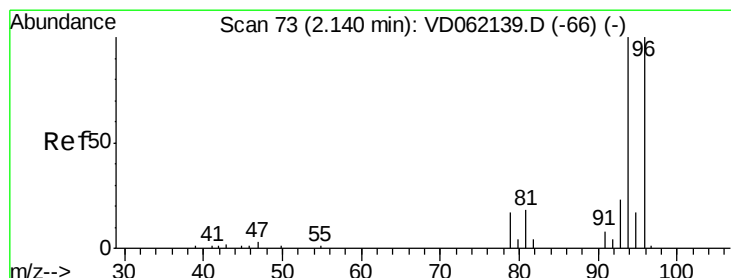
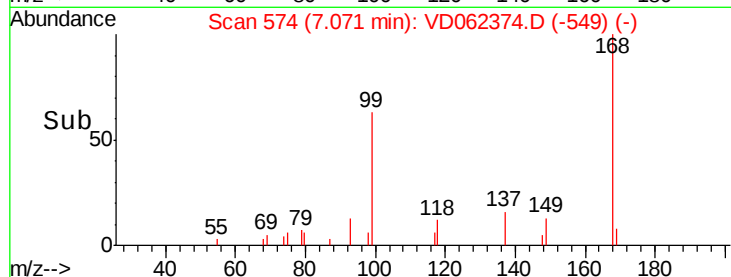
10000

5000

0

Time-->

7.00 7.10 7.20



#5

Bromomethane

Concen: 10.535 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062374.D

Acq: 15 May 2019 5:23

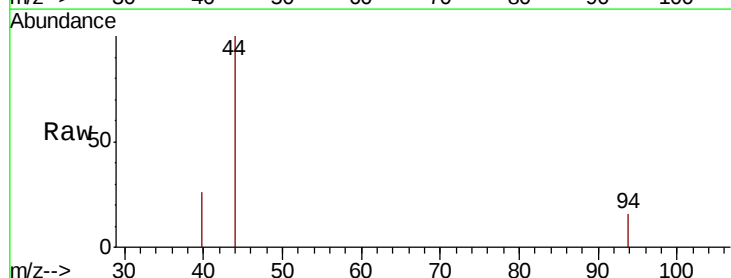
Tgt Ion: 94 Resp: 554

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): V

Ion 96.00 (95.70 to 96.70): V

Ion 93.00 (92.70 to 93.70): V

2.15

600

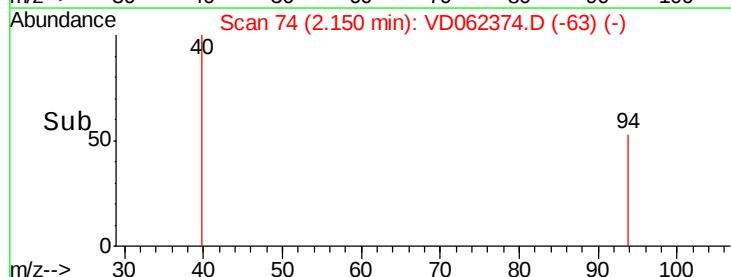
400

200

0

Time-->

2.14 2.16 2.18





#16

Acetone

Concen: 36.911 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD062374.D

Acq: 15 May 2019 5:23

Instrument :

MSVOA\_D

ClientSampleId :

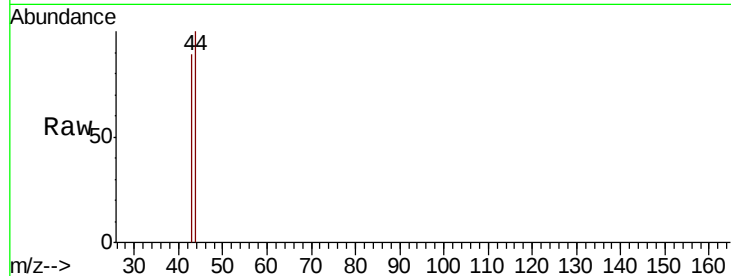
P026-SS017-1824-01RE

Tot Ion: 43 Resp: 2377

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

3.23

1000

800

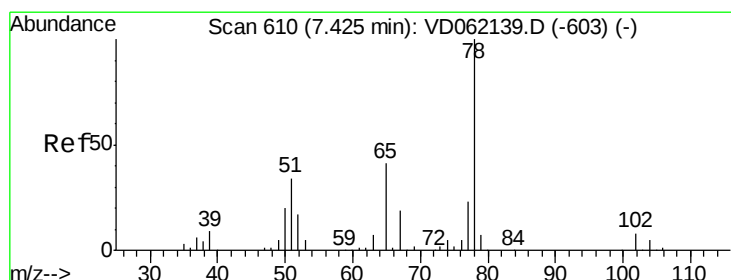
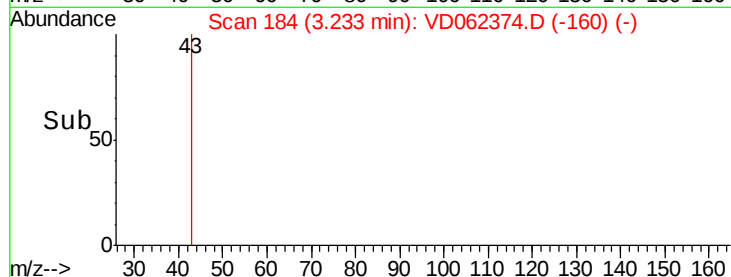
600

400

200

0

Time--> 3.15 3.20 3.25 3.30



#33

1,2-Dichloroethane-d4

Concen: 103.386 ug/l

RT: 7.47 min Scan# 615

Delta R.T. 0.05 min

Lab File: VD062374.D

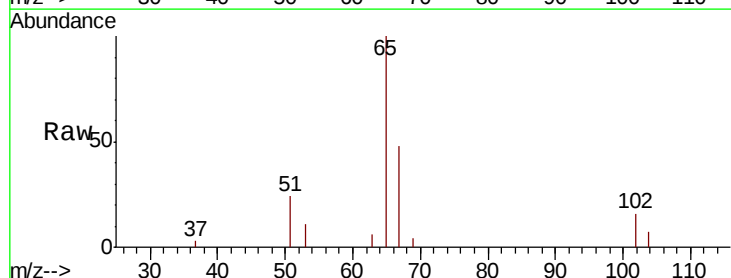
Acq: 15 May 2019 5:23

Tgt Ion: 65 Resp: 31748

Ion Ratio Lower Upper

65 100

67 48.2 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

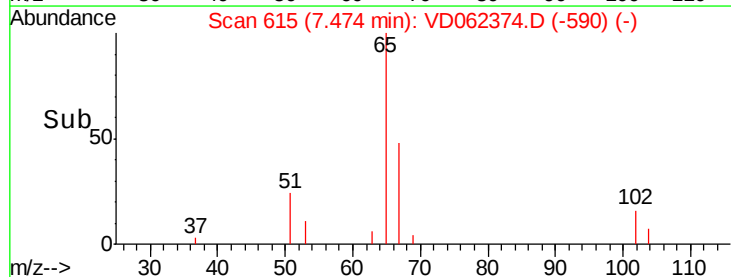
7.47

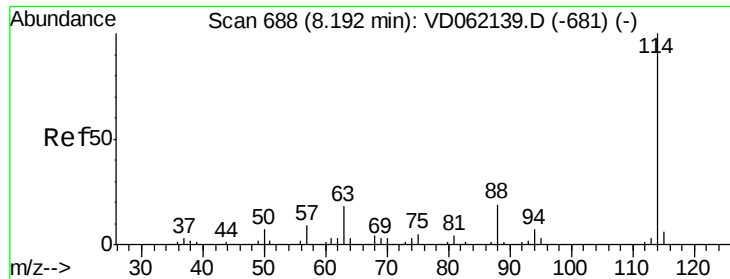
10000

5000

0

Time--> 7.40 7.50 7.60

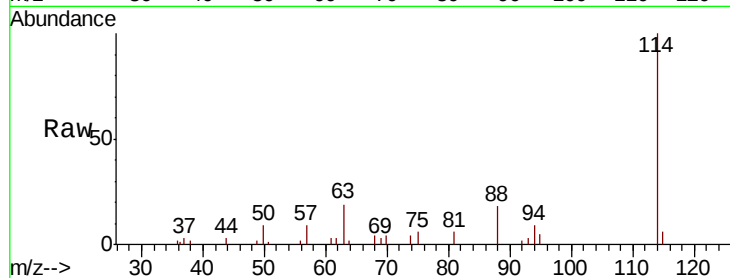




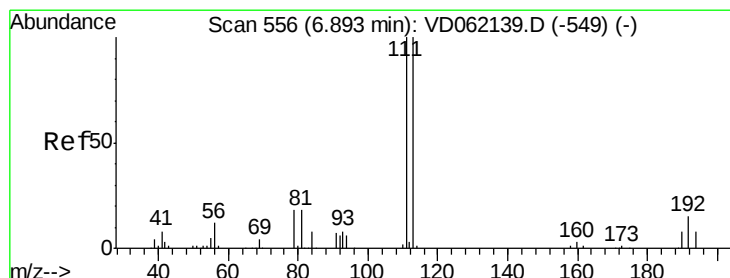
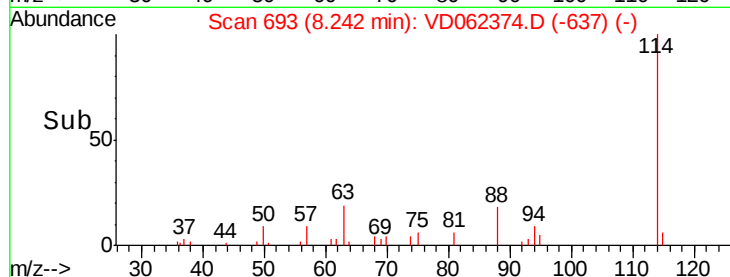
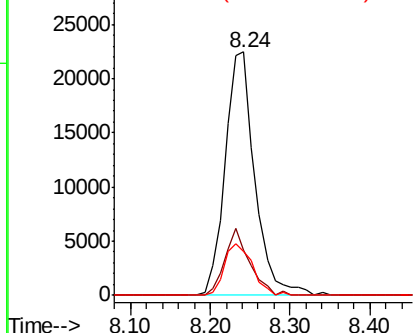
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.24 min Scan# 693  
 Delta R.T. 0.05 min  
 Lab File: VD062374.D  
 Acq: 15 May 2019 5:23

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS017-1824-01RE

Tot Ion:114 Resp: 58798  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 32.4  
 88 17.8 0.0 33.6

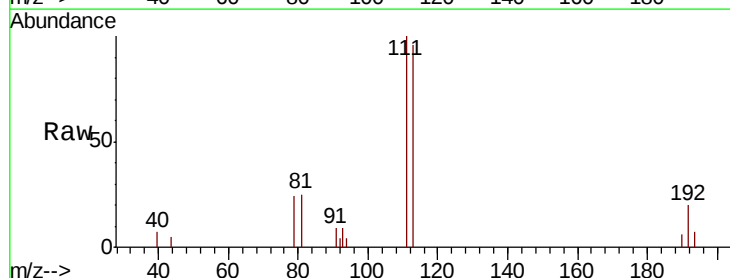


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

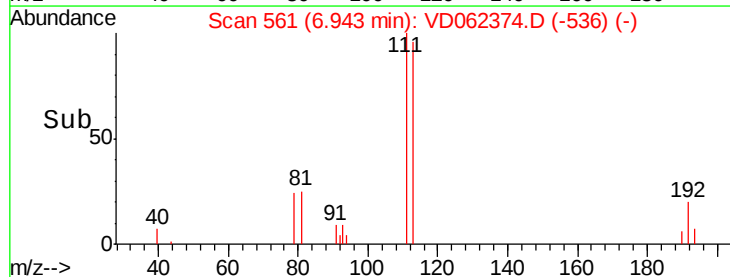
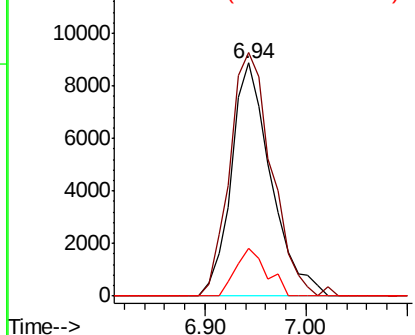


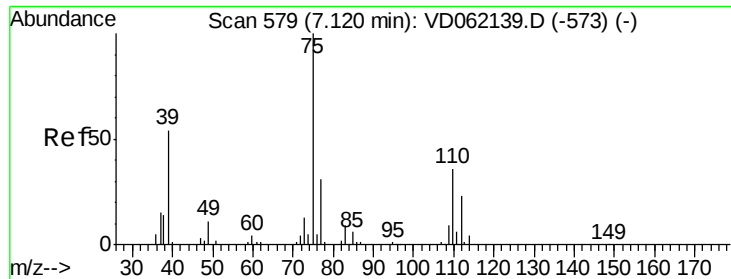
#35  
 Dibromofluoromethane  
 Concen: 49.751 ug/l  
 RT: 6.94 min Scan# 561  
 Delta R.T. 0.05 min  
 Lab File: VD062374.D  
 Acq: 15 May 2019 5:23

Tgt Ion:113 Resp: 24271  
 Ion Ratio Lower Upper  
 113 100  
 111 104.5 78.5 117.7  
 192 20.7 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

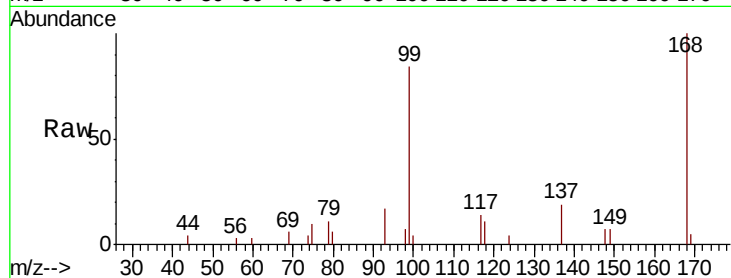




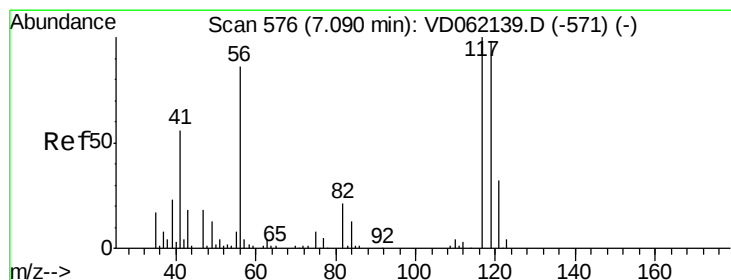
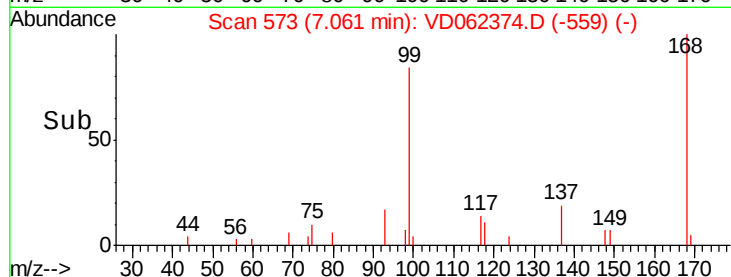
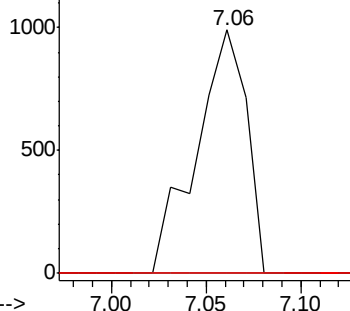
#36  
 1,1-Dichloropropene  
 Concen: 3.804 ug/l  
 RT: 7.06 min Scan# 573  
 Delta R.T. -0.06 min  
 Lab File: VD062374.D  
 Acq: 15 May 2019 5:23

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS017-1824-01RE

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

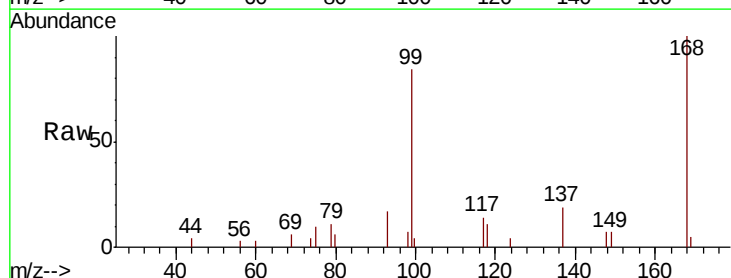


Abundance Ion 75.00 (74.70 to 75.70): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.95 (76.65 to 77.65): V

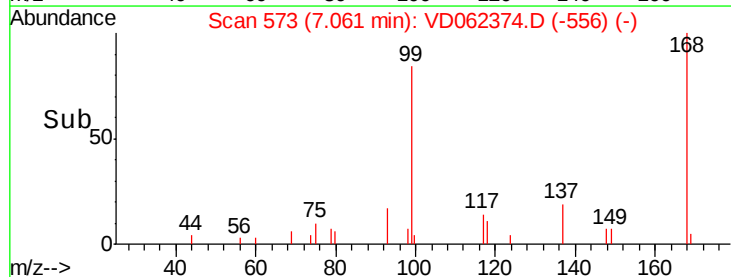
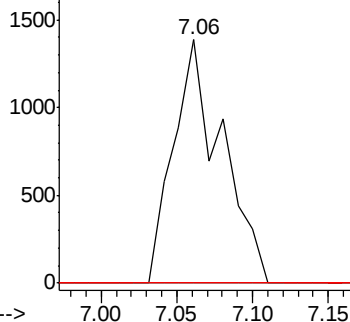


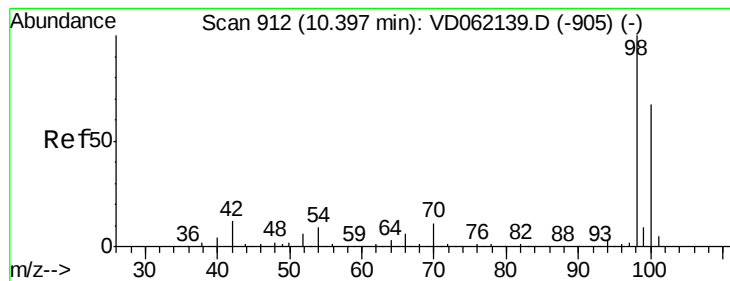
#38  
 Carbon Tetrachloride  
 Concen: 4.634 ug/l  
 RT: 7.06 min Scan# 573  
 Delta R.T. -0.03 min  
 Lab File: VD062374.D  
 Acq: 15 May 2019 5:23

| Tgt 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: 28.801 ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.03 min

Lab File: VD062374.D

Acq: 15 May 2019 5:23

Instrument :

MSVOA\_D

ClientSampleId :

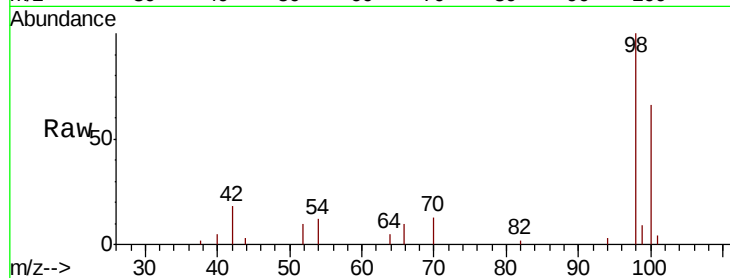
P026-SS017-1824-01RE

Tot Ion: 98 Resp: 33877

Ion Ratio Lower Upper

98 100

100 66.4 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)

10.43

15000

10000

5000

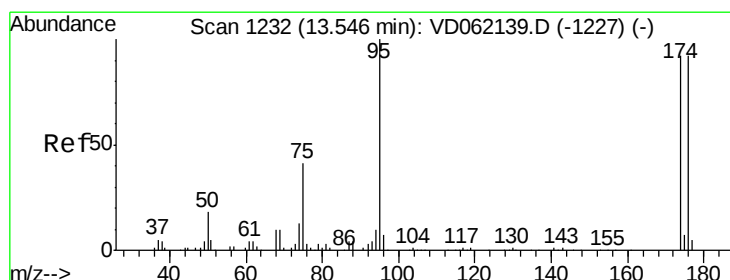
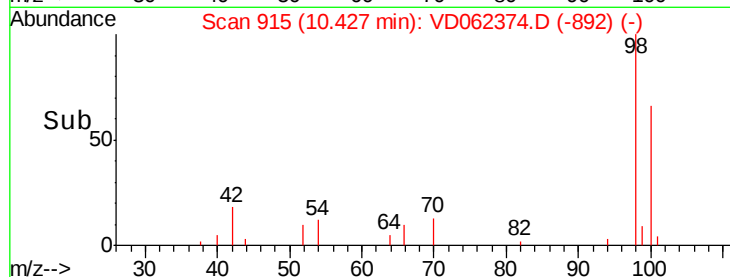
0

Time-->

10.40

10.43

10.50



#62

4-Bromofluorobenzene

Concen: 37.340 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD062374.D

Acq: 15 May 2019 5:23

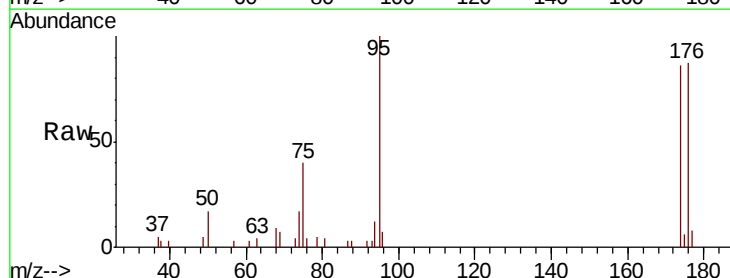
Tgt Ion: 95 Resp: 17637

Ion Ratio Lower Upper

95 100

174 85.5 0.0 181.8

176 87.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062139.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD062139.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD062139.D (-1227) (-)

13.57

15000

10000

5000

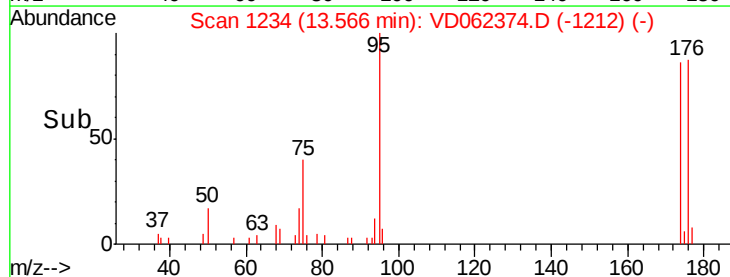
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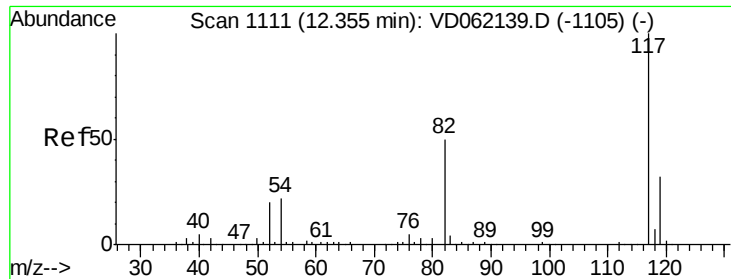
Time-->

13.50

13.55

13.60

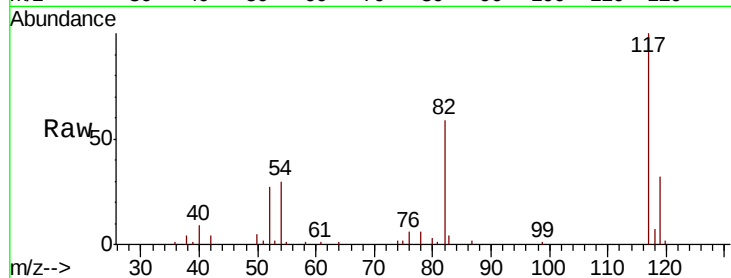




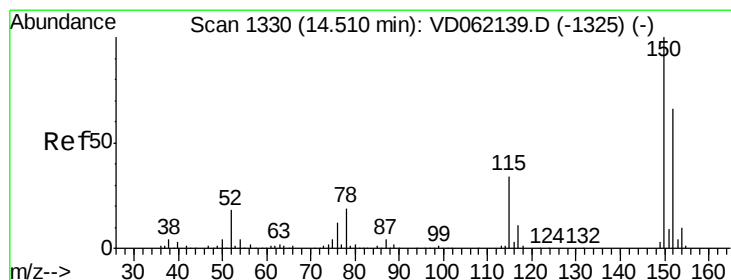
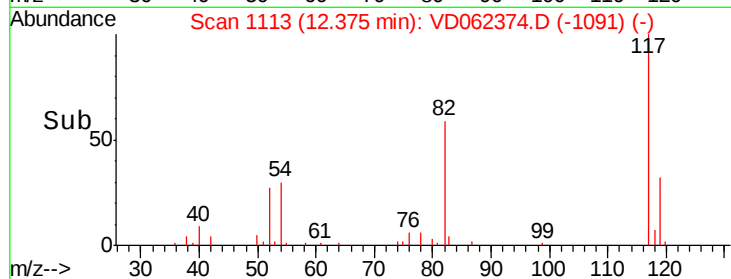
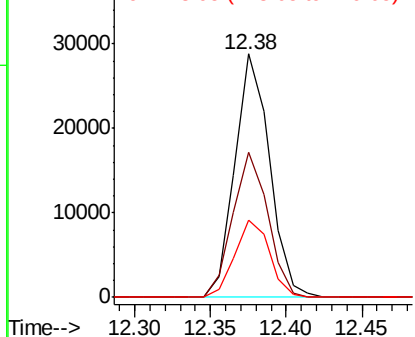
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VD062374.D  
Acq: 15 May 2019 5:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
P026-SS017-1824-01RE

Tot Ion:117 Resp: 45828  
Ion Ratio Lower Upper  
117 100  
82 59.4 36.2 54.2#  
119 31.8 26.2 39.4

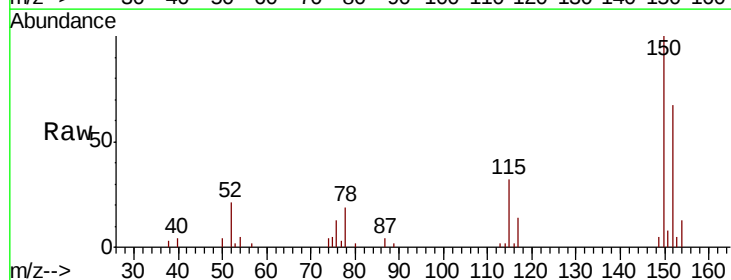


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

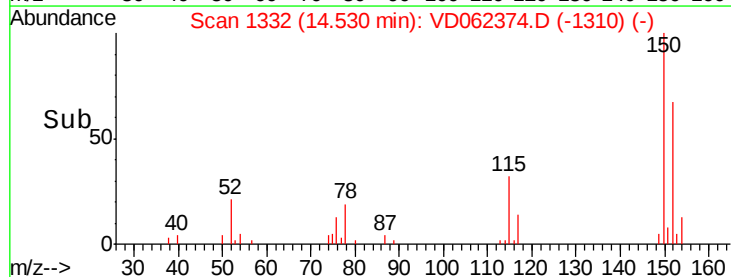
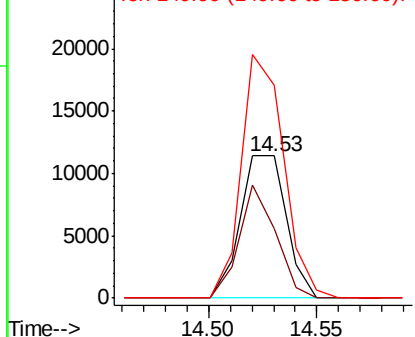


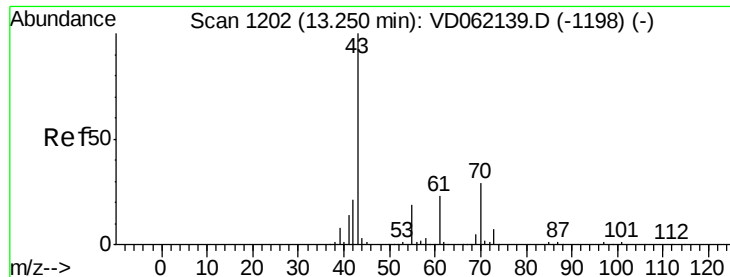
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1332  
Delta R.T. 0.02 min  
Lab File: VD062374.D  
Acq: 15 May 2019 5:23

Tgt Ion:152 Resp: 16840  
Ion Ratio Lower Upper  
152 100  
115 48.5 30.9 92.7  
150 149.8 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





#74

N-amvl acetate

Concen: 1.409 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD062374.D

Acq: 15 May 2019 5:23

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS017-1824-01RE

Tot Ion: 43 Resp: 373

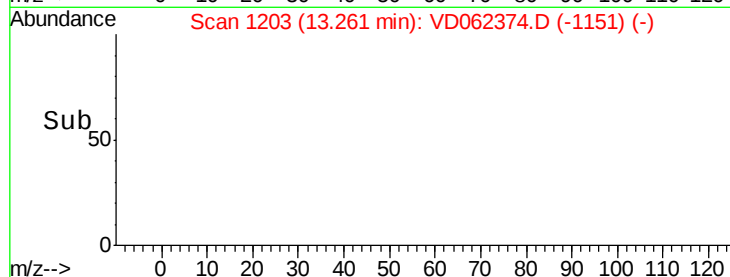
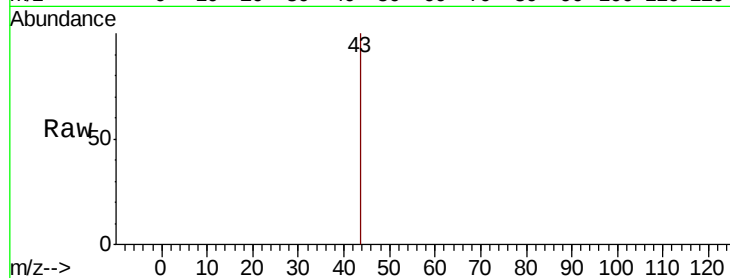
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#

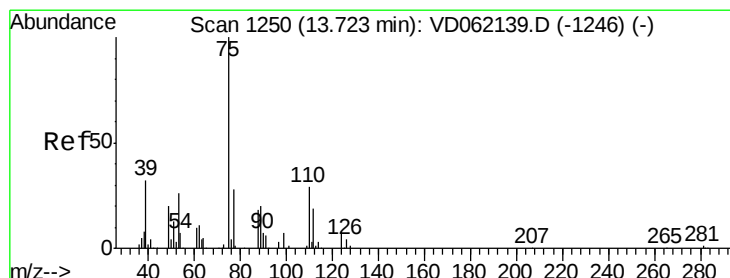
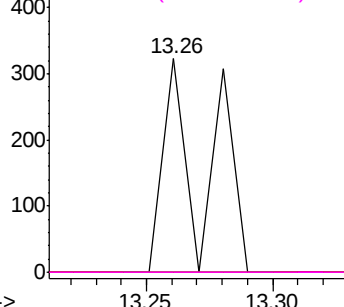


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 34.253 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062374.D

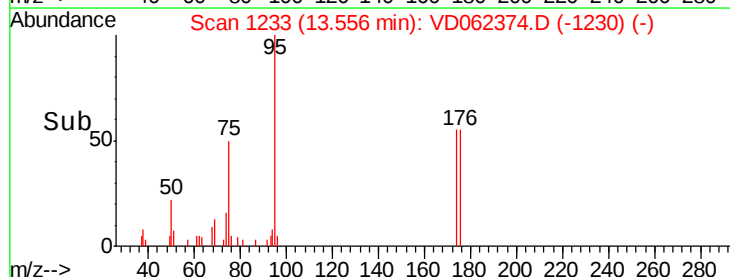
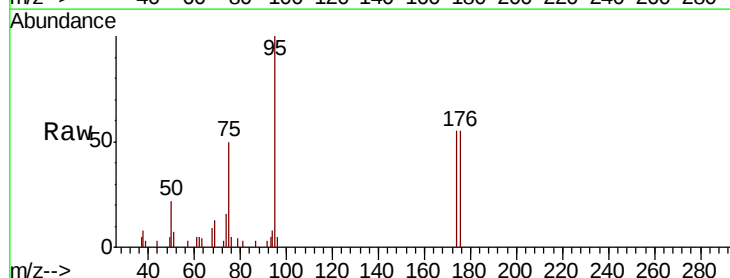
Acq: 15 May 2019 5:23

Tgt Ion: 75 Resp: 6855

Ion Ratio Lower Upper

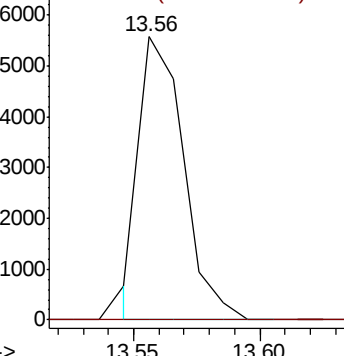
75 100

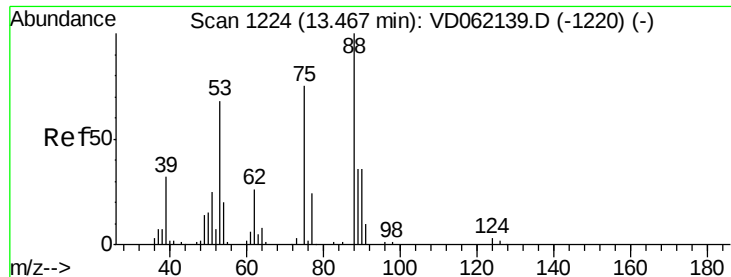
77 0.0 16.4 49.4#



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: 128.217 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062374.D

Acq: 15 May 2019 5:23

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS017-1824-01RE

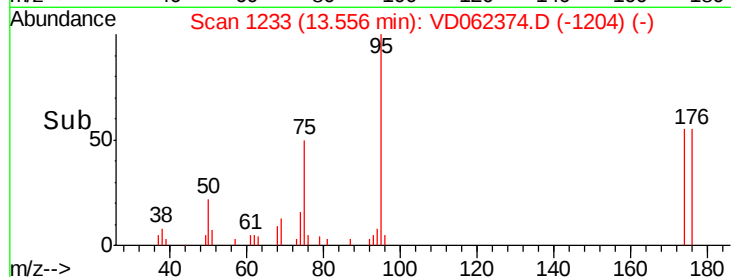
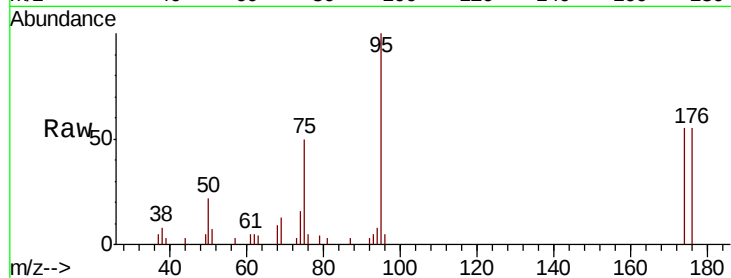
Tot Ion: 75 Resp: 7244

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

