

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD122718\  
 Data File : VD060731.D  
 Acq On : 27 Dec 2018 17:27  
 Operator : VA/AP  
 Sample : J6446-17RE  
 Misc : 4.81g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P001-SS022-1824-01RE

Quant Time: Dec 28 01:38:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122018S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 21 17:37:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.37  | 168  | 29274    | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 7.41  | 114  | 45577    | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 11.26 | 117  | 38313    | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 13165    | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.75  | 65   | 34919    | 172.61 | ug/l    | -0.04    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 345.22% |          |
| 35) Dibromofluoromethane    | 6.28  | 113  | 31736    | 95.13  | ug/l    | -0.04    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 190.26% |          |
| 50) Toluene-d8              | 9.42  | 98   | 50004    | 50.24  | ug/l    | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.48% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 15118    | 43.37  | ug/l    | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 86.74%  |          |

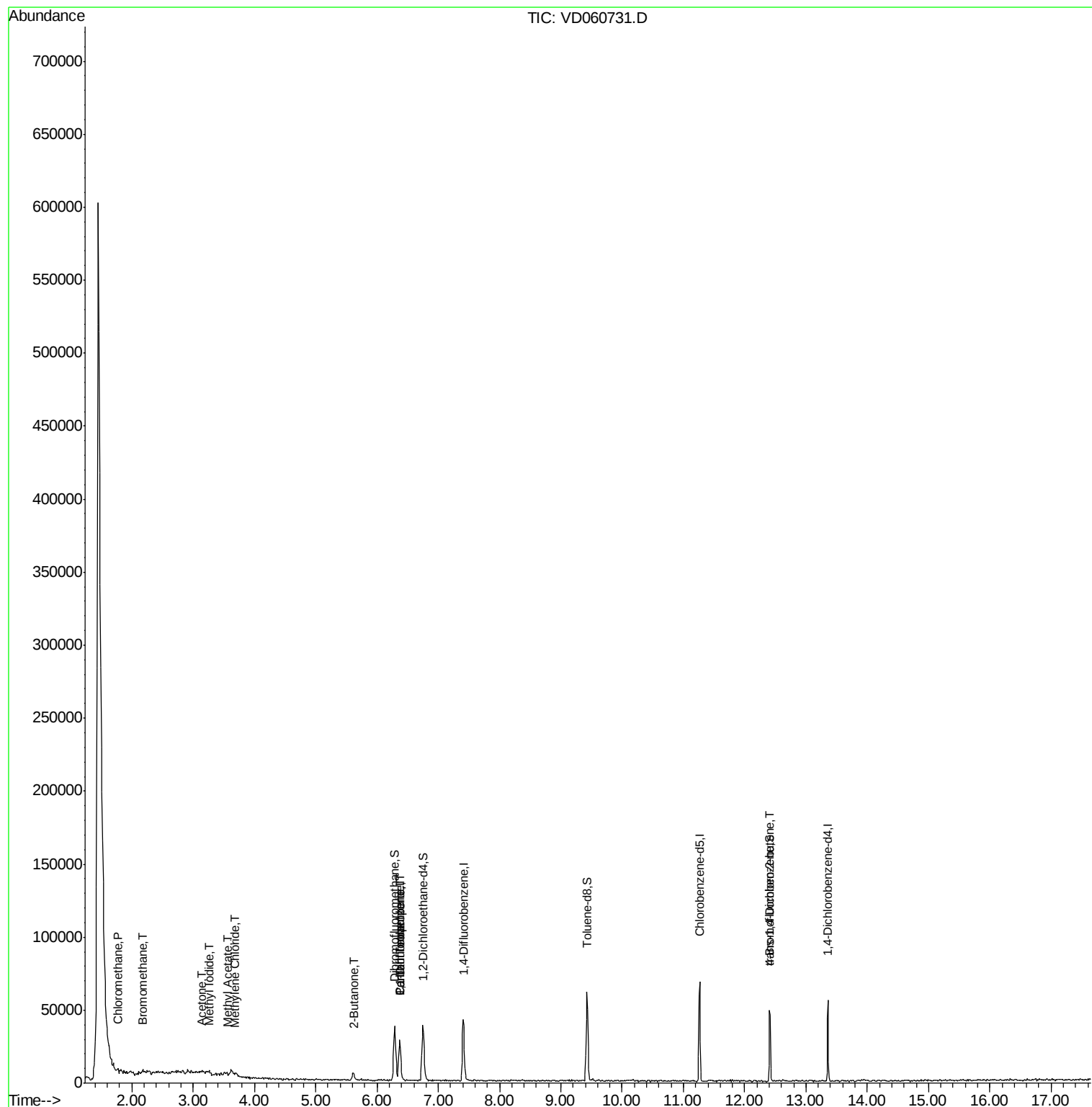
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 3) Chloromethane               | 1.76  | 50   | 1485     | 4.314   | ug/l # | 82     |
| 5) Bromomethane                | 2.17  | 94   | 3321     | 54.246  | ug/l # | 2      |
| 10) Methyl Iodide              | 3.26  | 142  | 1089     | 5.255   | ug/l # | 36     |
| 16) Acetone                    | 3.14  | 43   | 2509     | 71.017  | ug/l # | 53     |
| 18) Methyl Acetate             | 3.55  | 43   | 1357     | 15.498  | ug/l # | 63     |
| 20) Methylene Chloride         | 3.70  | 84   | 618      | 1.684   | ug/l # | 43     |
| 25) 2-Butanone                 | 5.61  | 43   | 188      | 2.781   | ug/l # | 61     |
| 36) 1,1-Dichloropropene        | 6.37  | 75   | 1890     | 4.027   | ug/l # | 40     |
| 38) Carbon Tetrachloride       | 6.37  | 117  | 2087     | 5.041   | ug/l # | 12     |
| 81) trans-1,4-Dichloro-2-buten | 12.41 | 75   | 5770     | 139.319 | ug/l # | 13     |

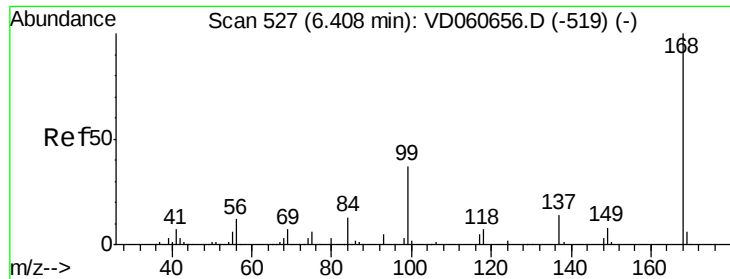
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Dec 21 17:37:47 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 523

Delta R.T. -0.03 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

MSVOA\_D

ClientSampleId :

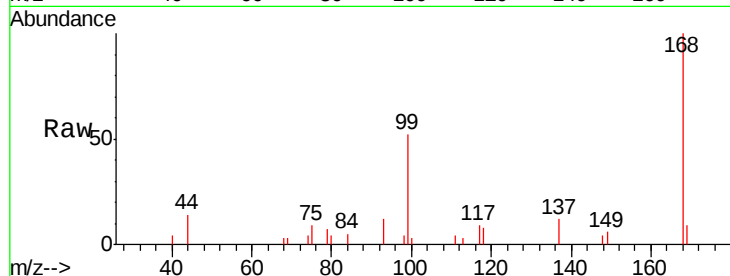
P001-SS022-1824-01RE

Tgt Ion: 168 Resp: 29274

Ion Ratio Lower Upper

168 100

99 51.8 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.37

12000

10000

8000

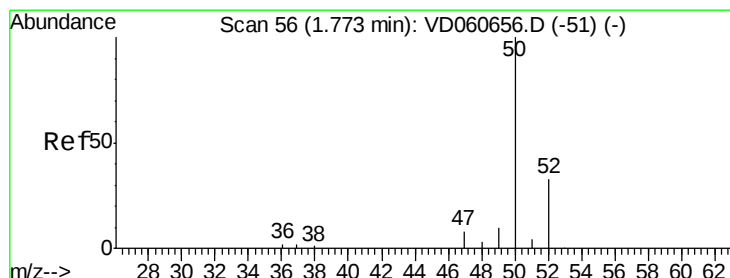
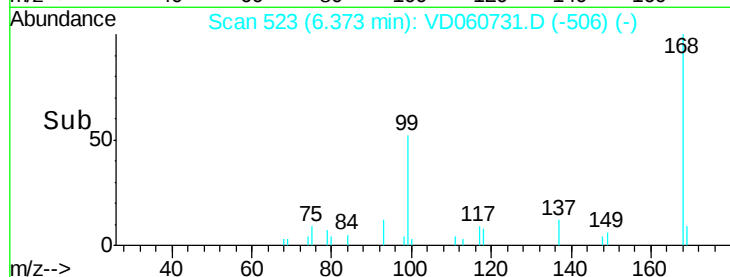
6000

4000

2000

0

Time-->



#3

Chloromethane

Concen: 4.314 ug/l

RT: 1.76 min Scan# 54

Delta R.T. -0.01 min

Lab File: VD060731.D

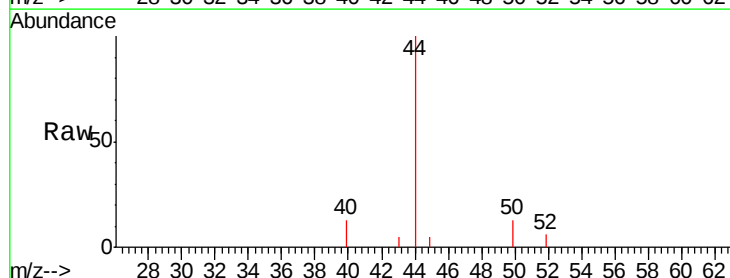
Acq: 27 Dec 2018 17:27

Tgt Ion: 50 Resp: 1485

Ion Ratio Lower Upper

50 100

52 43.1 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.76

1000

800

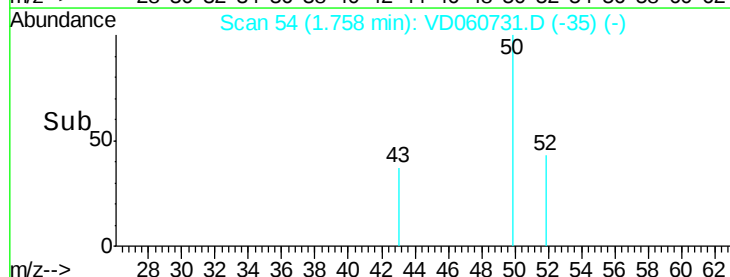
600

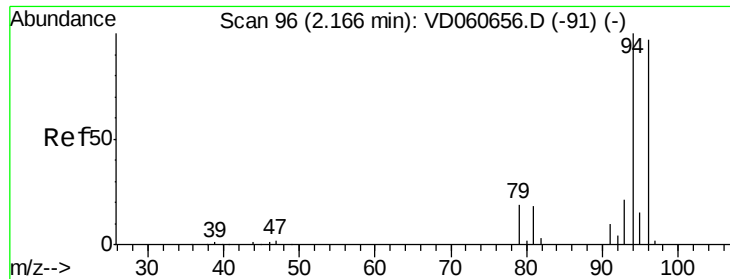
400

200

0

Time-->





#5

Bromomethane

Concen: 54.246 ug/l

RT: 2.17 min Scan# 96

Delta R.T. 0.00 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

MSVOA\_D

ClientSampleId :

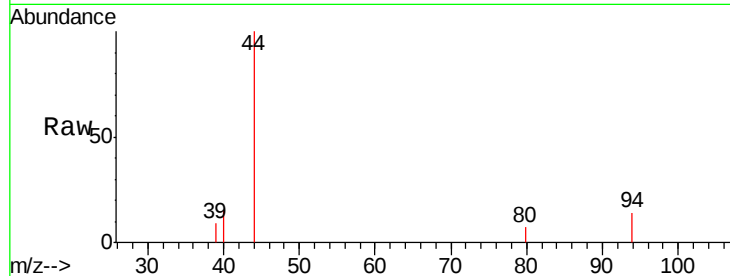
P001-SS022-1824-01RE

Tgt Ion: 94 Resp: 3321

Ion Ratio Lower Upper

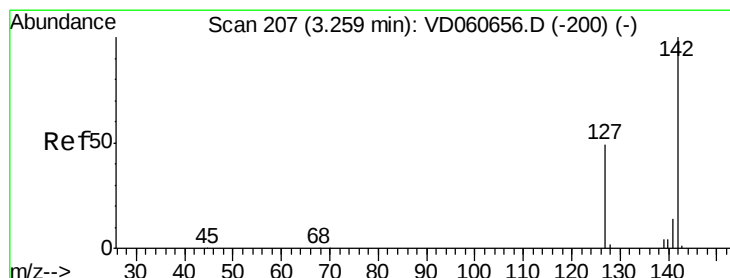
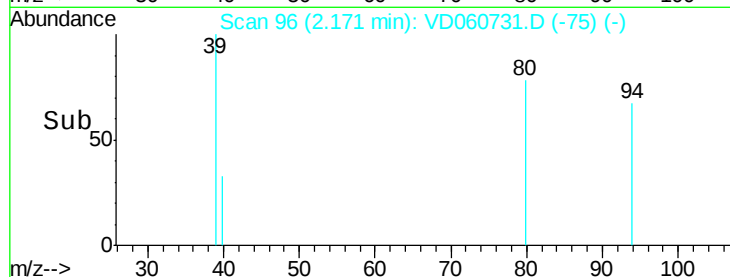
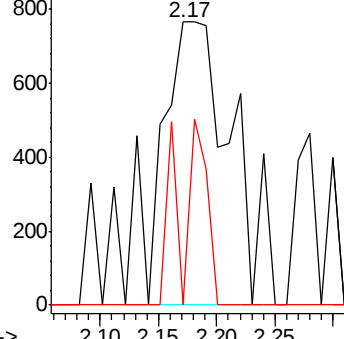
94 100

96 0.0 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 5.255 ug/l

RT: 3.26 min Scan# 207

Delta R.T. 0.00 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

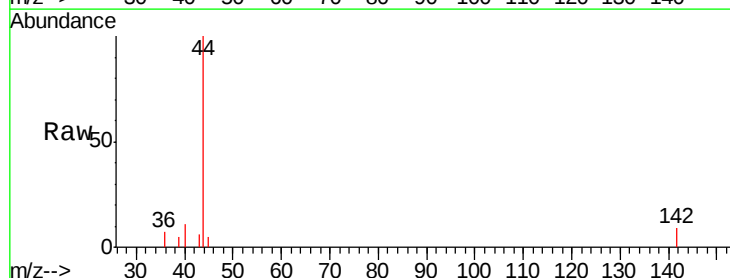
Tgt Ion: 142 Resp: 1089

Ion Ratio Lower Upper

142 100

127 0.0 39.5 59.3#

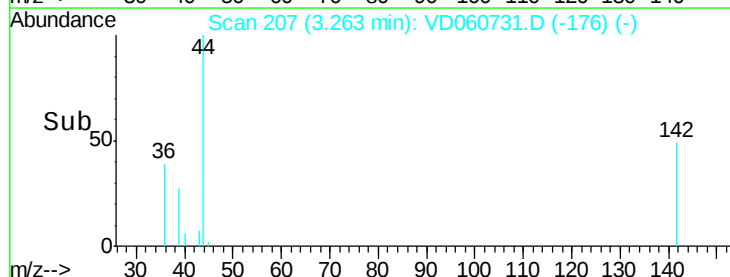
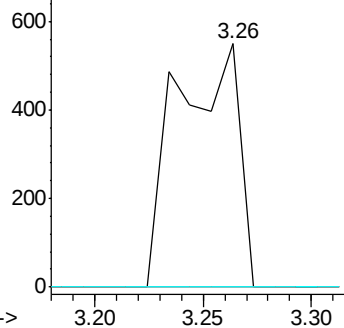
141 0.0 11.3 16.9#

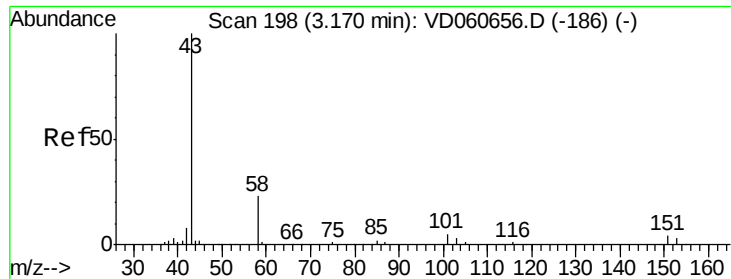


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#16

Acetone

Concen: 71.017 ug/l

RT: 3.14 min Scan# 194

Delta R.T. -0.03 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

MSVOA\_D

ClientSampleId :

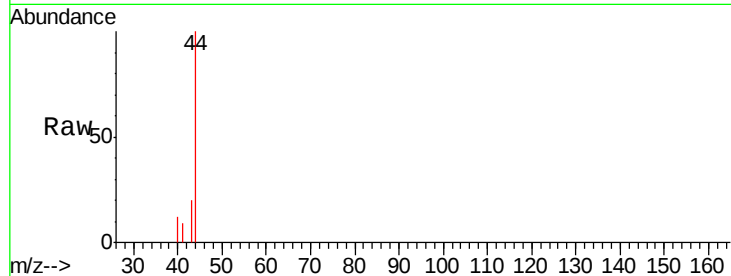
P001-SS022-1824-01RE

Tgt Ion: 43 Resp: 2509

Ion Ratio Lower Upper

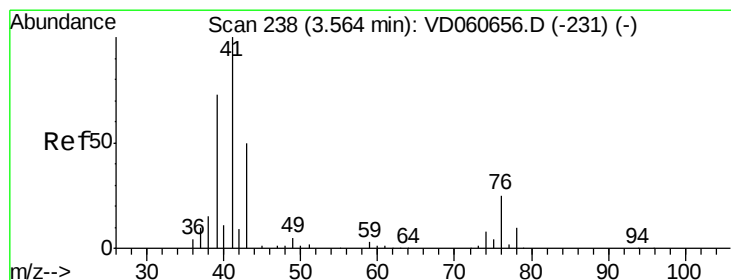
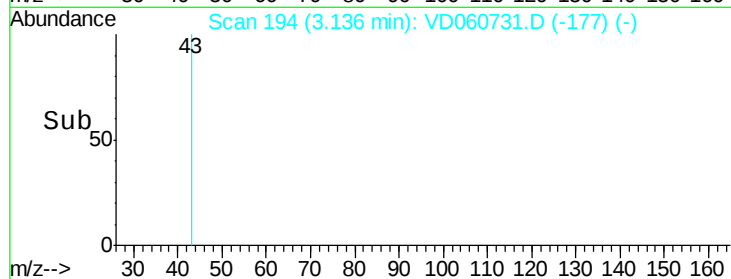
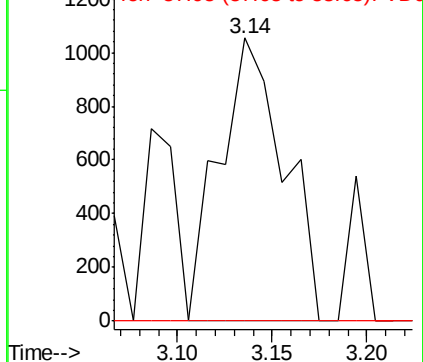
43 100

58 0.0 18.2 27.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 15.498 ug/l

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VD060731.D

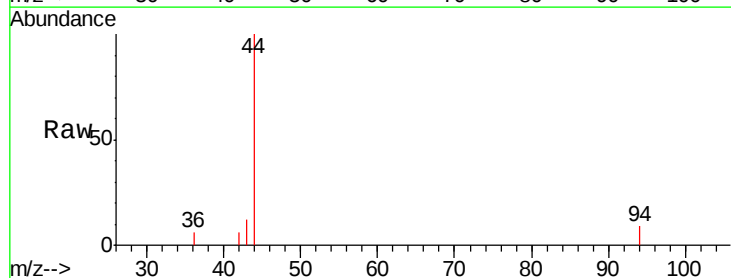
Acq: 27 Dec 2018 17:27

Tgt Ion: 43 Resp: 1357

Ion Ratio Lower Upper

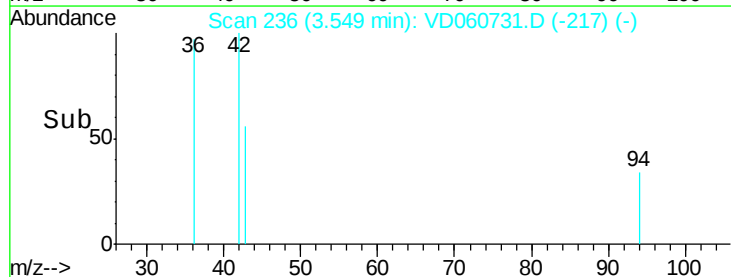
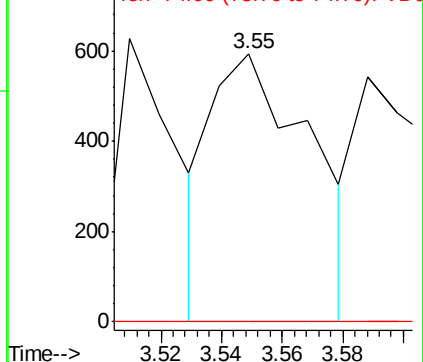
43 100

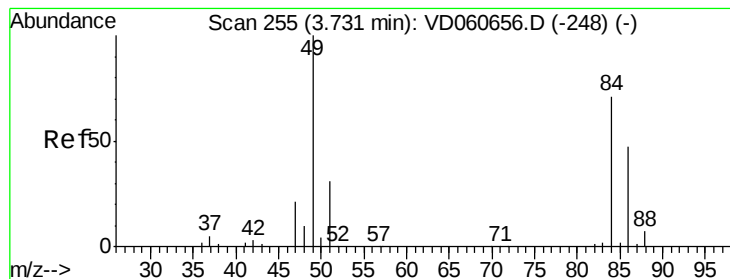
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 1.684 ug/l

RT: 3.70 min Scan# 251

Delta R.T. -0.03 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

MSVOA\_D

ClientSampleId :

P001-SS022-1824-01RE

Tgt Ion: 84 Resp: 618

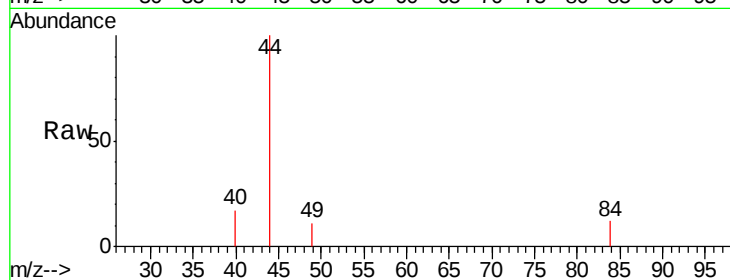
Ion Ratio Lower Upper

84 100

49 91.4 113.6 170.4#

51 0.0 34.7 52.1#

86 0.0 52.8 79.2#

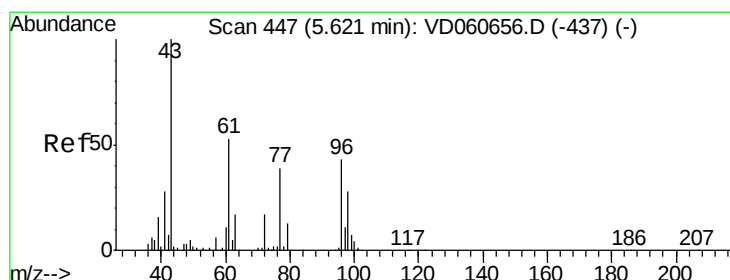
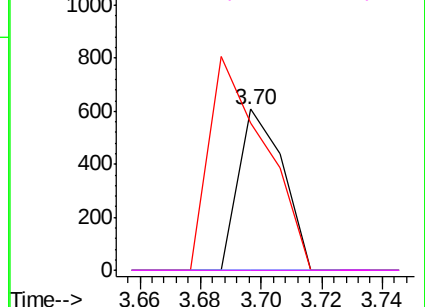
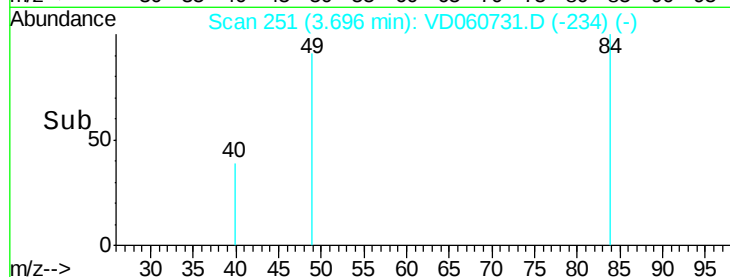


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 2.781 ug/l

RT: 5.61 min Scan# 445

Delta R.T. -0.01 min

Lab File: VD060731.D

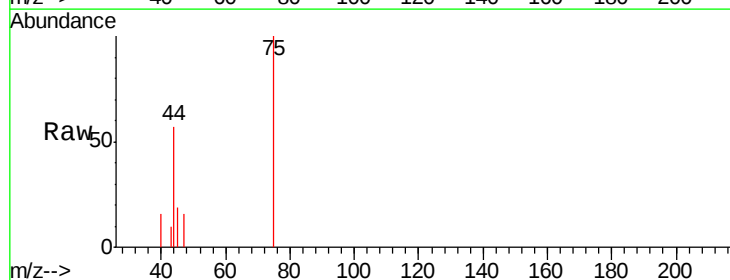
Acq: 27 Dec 2018 17:27

Tgt Ion: 43 Resp: 188

Ion Ratio Lower Upper

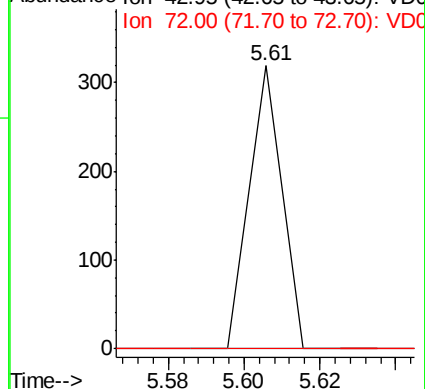
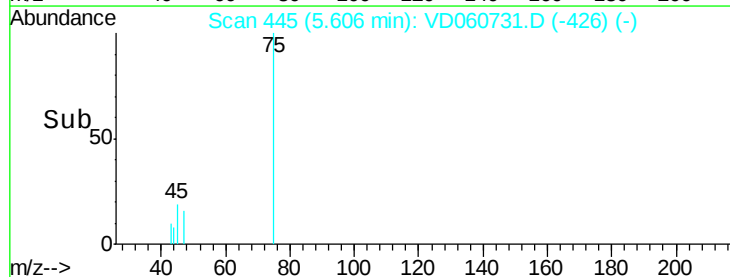
43 100

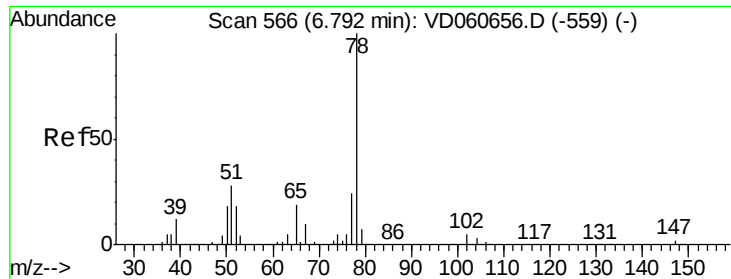
72 0.0 13.7 20.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.75 min Scan# 561

Delta R.T. -0.04 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

MSVOA\_D

ClientSampleId :

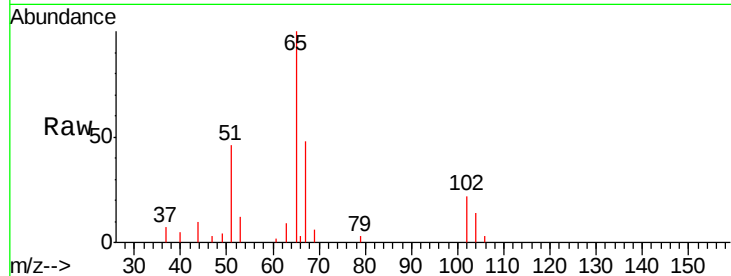
P001-SS022-1824-01RE

Tgt Ion: 65 Resp: 34919

Ion Ratio Lower Upper

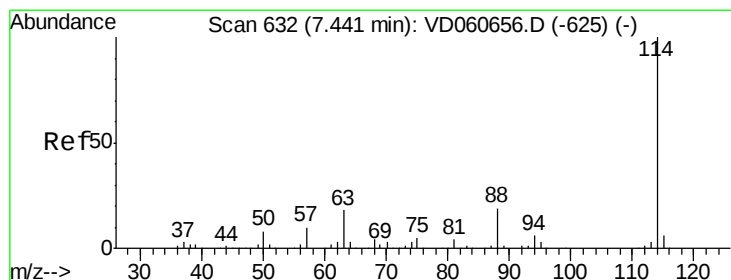
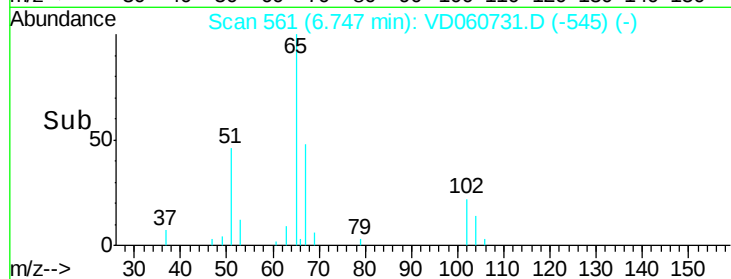
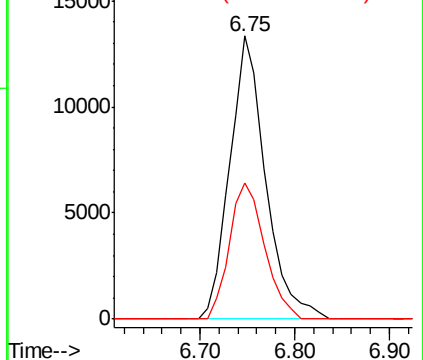
65 100

67 48.1 0.0 105.4



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: 7.41 min Scan# 628

Delta R.T. -0.03 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

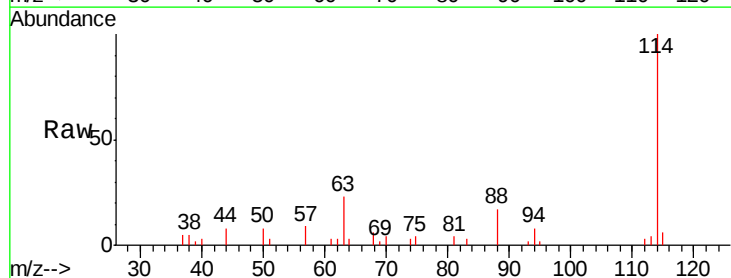
Tgt Ion: 114 Resp: 45577

Ion Ratio Lower Upper

114 100

63 22.9 0.0 36.2

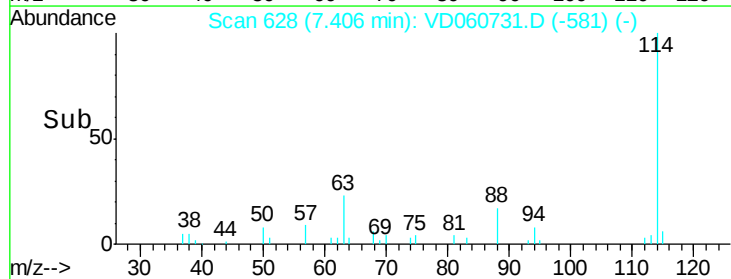
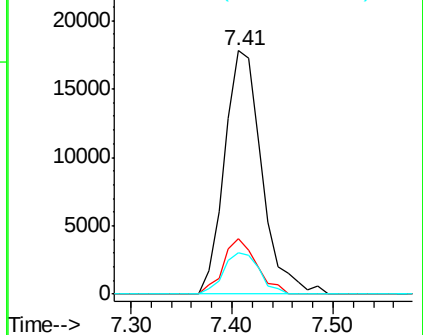
88 16.9 0.0 37.0

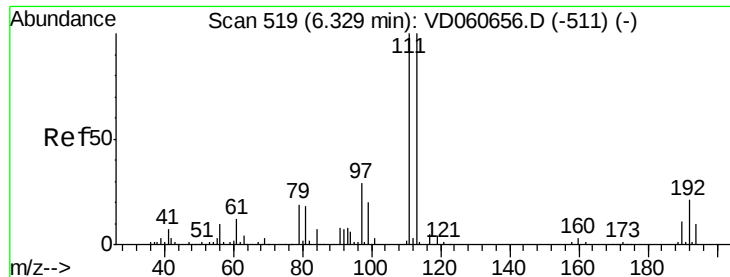


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.28 min Scan# 514

Delta R.T. -0.04 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

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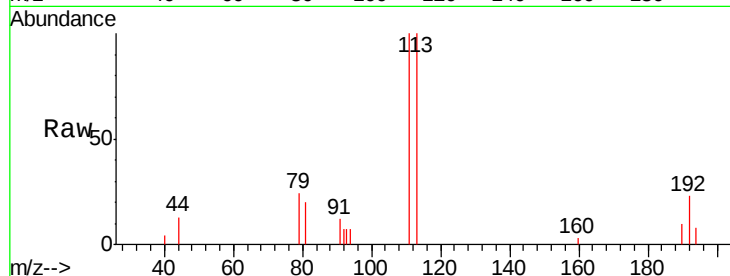
Tgt Ion:113 Resp: 31736

Ion Ratio Lower Upper

113 100

111 100.3 80.0 120.0

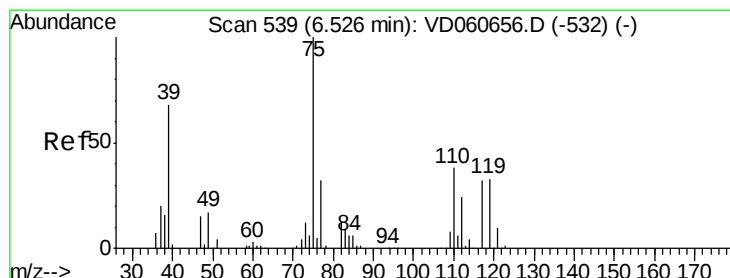
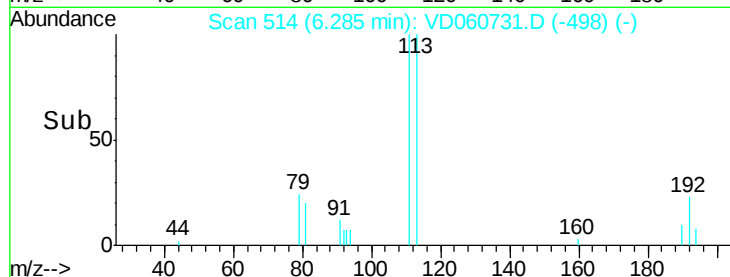
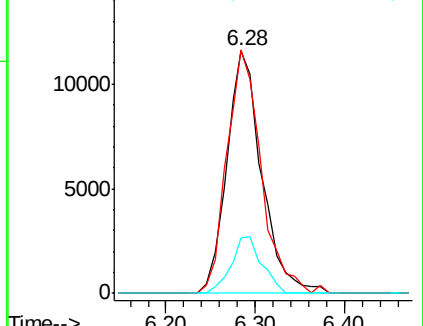
192 23.0 16.6 25.0



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: 4.027 ug/l

RT: 6.37 min Scan# 523

Delta R.T. -0.15 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

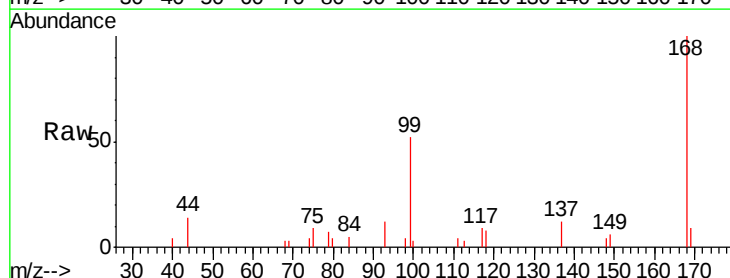
Tgt Ion: 75 Resp: 1890

Ion Ratio Lower Upper

75 100

110 0.0 18.9 56.7#

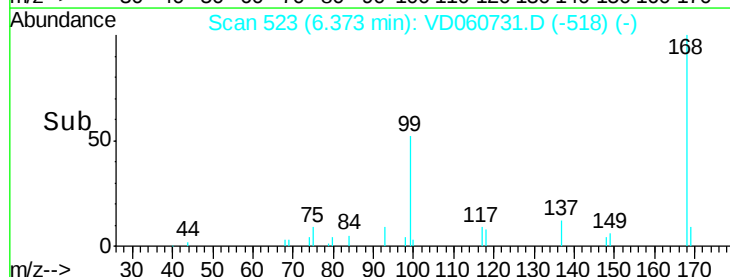
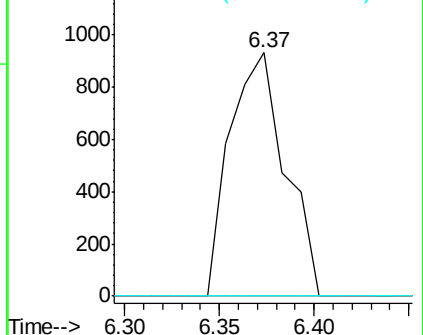
77 0.0 25.4 38.0#

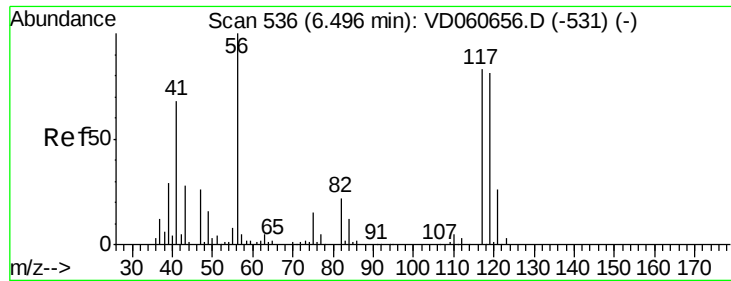


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

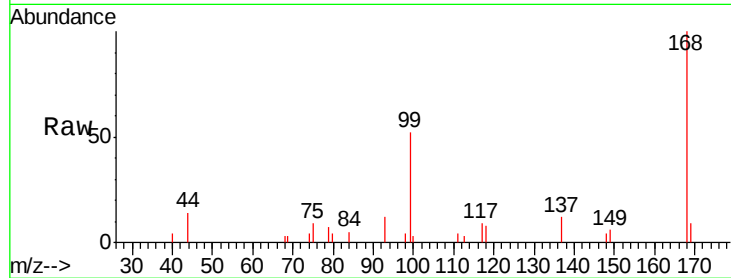




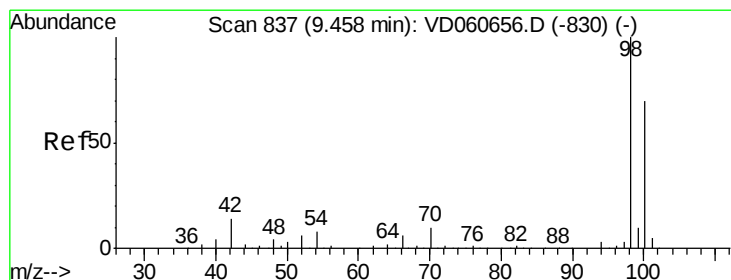
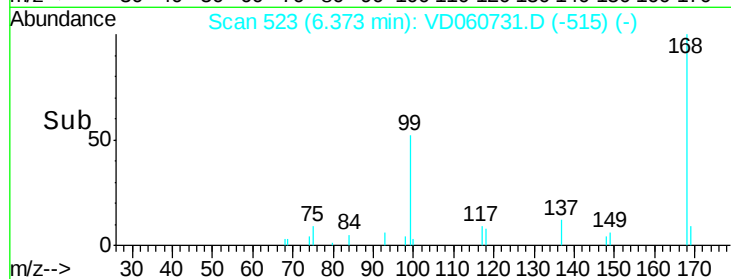
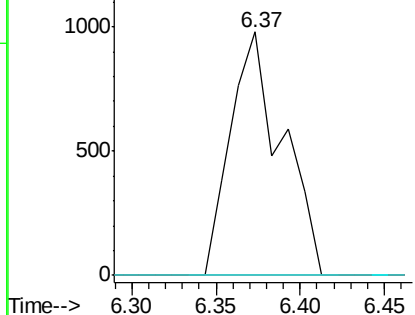
#38  
Carbon Tetrachloride  
Concen: 5.041 ug/l  
RT: 6.37 min Scan# 523  
Delta R.T. -0.12 min  
Lab File: VD060731.D  
Acq: 27 Dec 2018 17:27

Instrument :  
MSVOA\_D  
ClientSampleId :  
P001-SS022-1824-01RE

Tgt Ion: 117 Resp: 2087  
Ion Ratio Lower Upper  
117 100  
119 0.0 77.0 115.4#  
121 0.0 24.7 37.1#

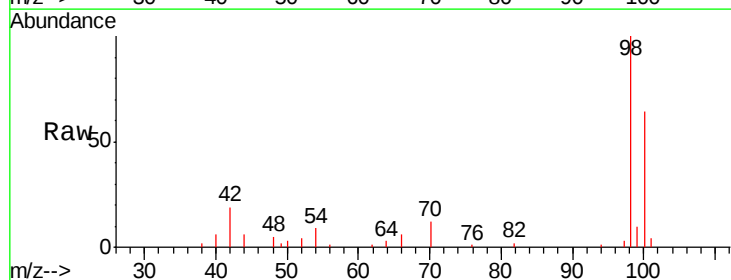


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

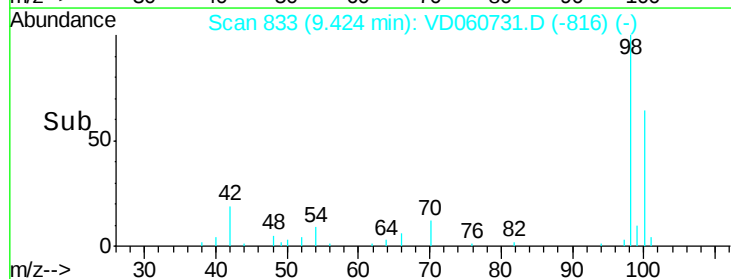
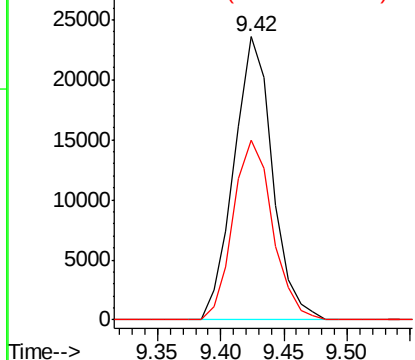


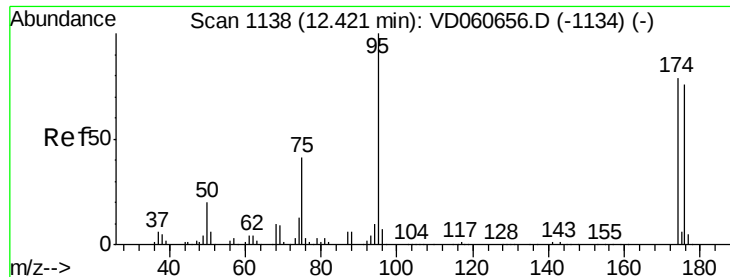
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.42 min Scan# 833  
Delta R.T. -0.03 min  
Lab File: VD060731.D  
Acq: 27 Dec 2018 17:27

Tgt Ion: 98 Resp: 50004  
Ion Ratio Lower Upper  
98 100  
100 63.7 55.8 83.8



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1136

Delta R.T. -0.01 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

MSVOA\_D

ClientSampleId :

P001-SS022-1824-01RE

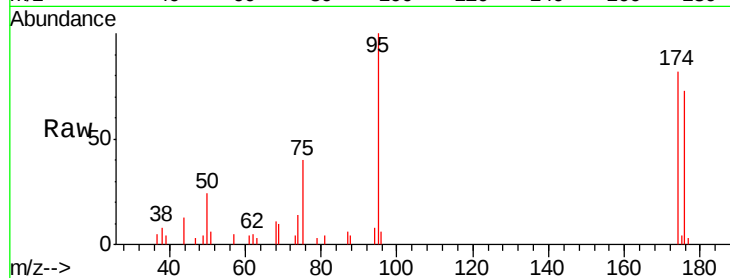
Tgt Ion: 95 Resp: 15118

Ion Ratio Lower Upper

95 100

174 81.5 0.0 158.2

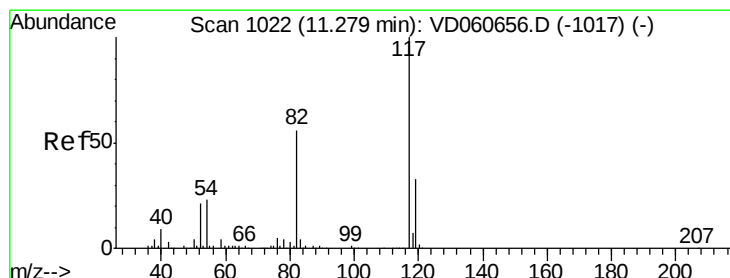
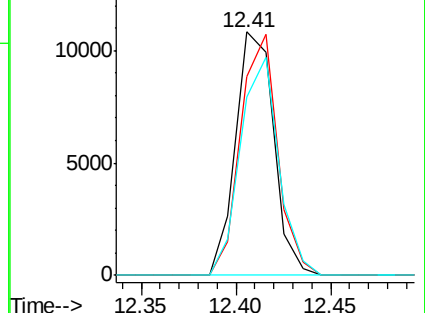
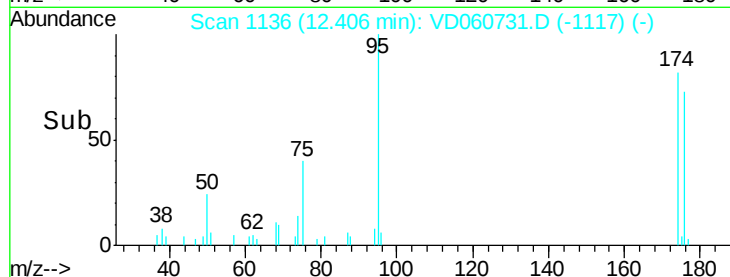
176 73.5 0.0 152.4



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: 11.26 min Scan# 1020

Delta R.T. -0.01 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

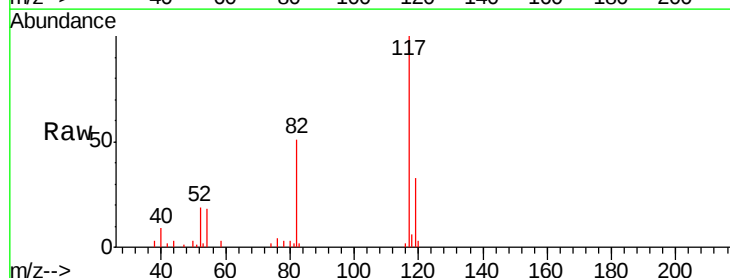
Tgt Ion: 117 Resp: 38313

Ion Ratio Lower Upper

117 100

82 50.8 44.5 66.7

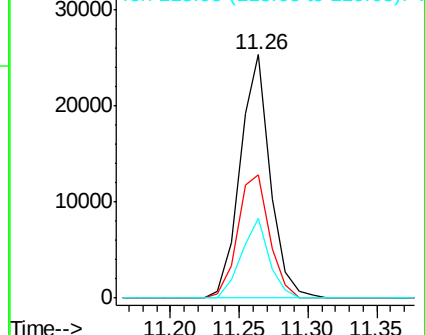
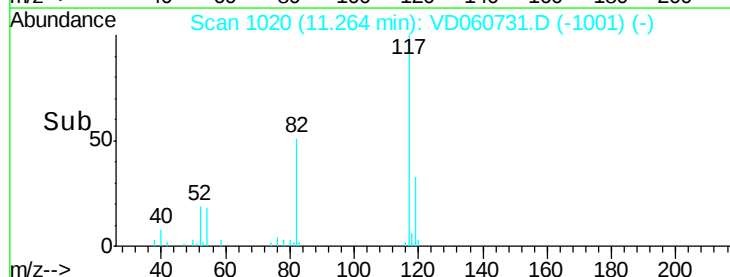
119 32.6 26.3 39.5

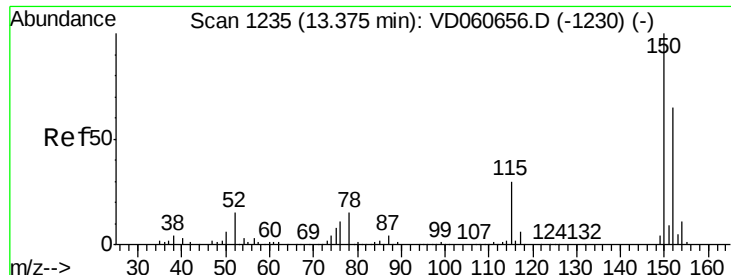


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.36 min Scan# 1233

Delta R.T. -0.01 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

Instrument :

MSVOA\_D

ClientSampleId :

P001-SS022-1824-01RE

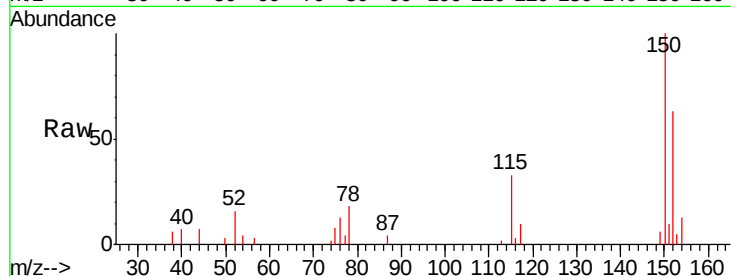
Tgt Ion:152 Resp: 13165

Ion Ratio Lower Upper

152 100

115 51.5 24.1 72.3

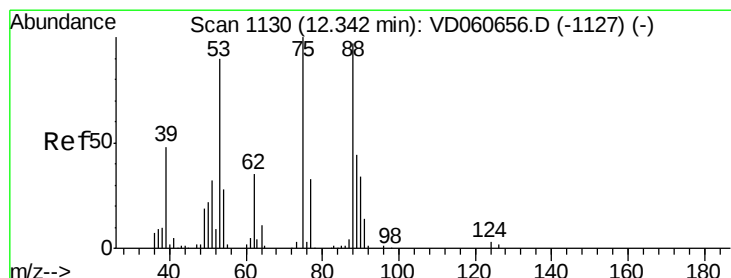
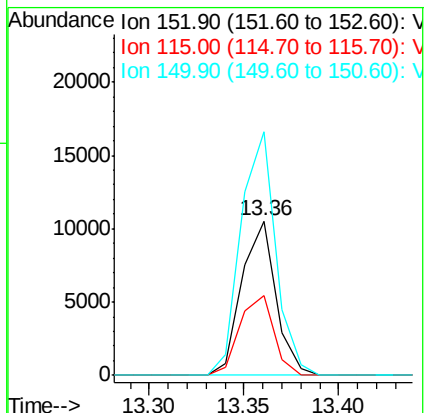
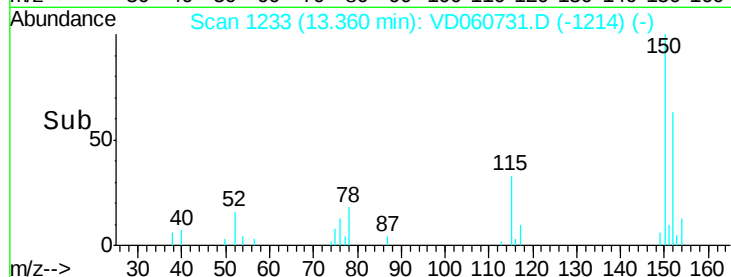
150 157.8 0.0 315.0



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: 139.319 ug/l

RT: 12.41 min Scan# 1136

Delta R.T. 0.06 min

Lab File: VD060731.D

Acq: 27 Dec 2018 17:27

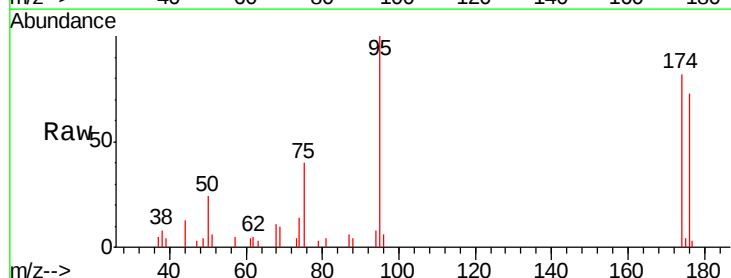
Tgt Ion: 75 Resp: 5770

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

89 0.0 35.1 52.7#



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

