

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD031519\  
 Data File : VD061096.D  
 Acq On : 15 Mar 2019 19:37  
 Operator : VA/AP  
 Sample : K1926-01  
 Misc : 5.00g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SUMP-MUCK

Quant Time: Mar 16 06:38:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.07  | 168  | 305814   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 591638   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 12.39 | 117  | 304332   | 50.00 | ug/l  | 0.03     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 59210    | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.48  | 65   | 157650   | 61.93 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 123.86% |          |
| 35) Dibromofluoromethane    | 6.95  | 113  | 231384   | 52.70 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 105.40% |          |
| 50) Toluene-d8              | 10.44 | 98   | 403420   | 36.59 | ug/l    | 0.04     |
| Spiked Amount               |       |      | Recovery | =     | 73.18%  |          |
| 62) 4-Bromofluorobenzene    | 13.57 | 95   | 83232    | 19.45 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 38.90%  |          |

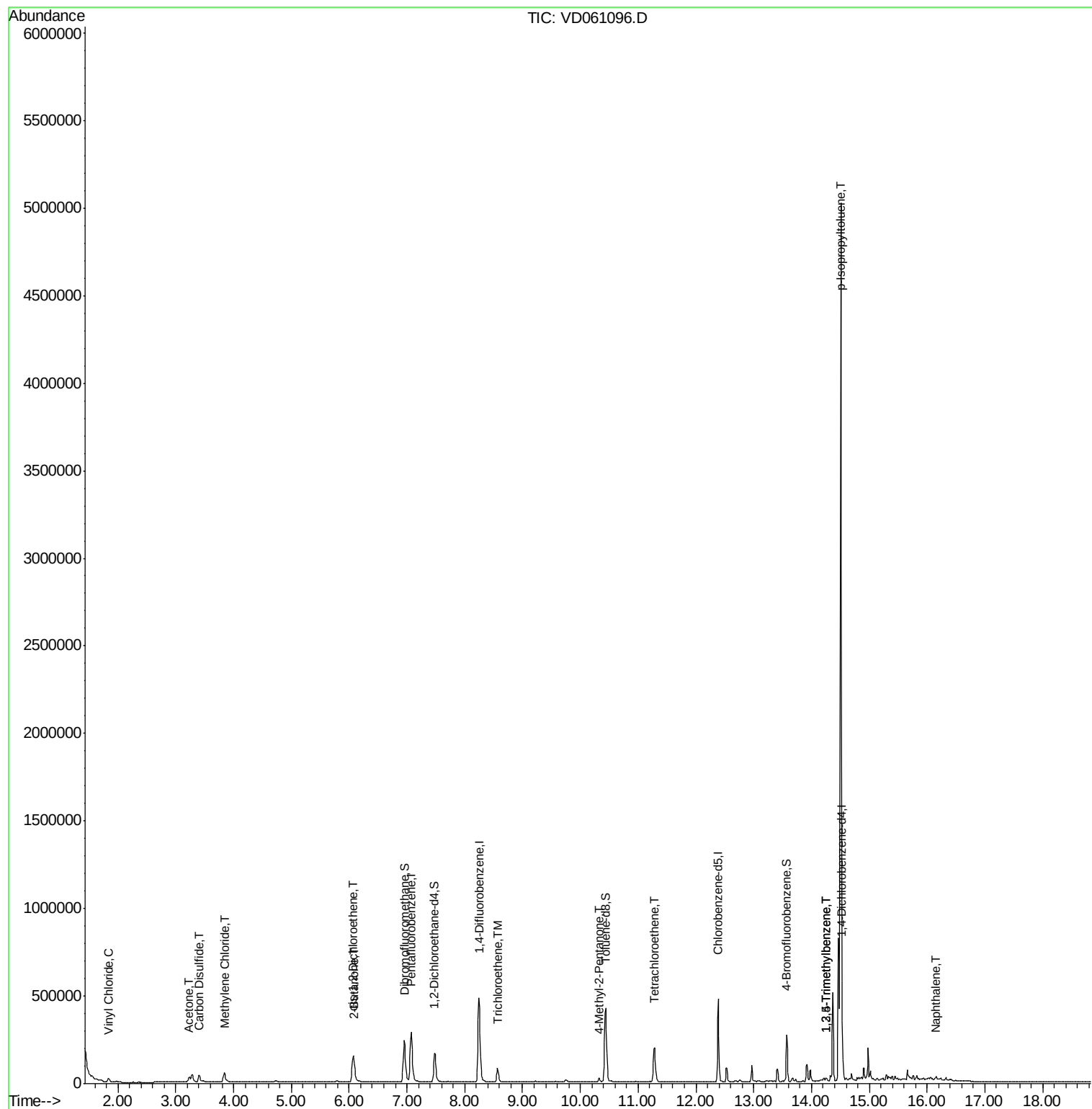
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 4) Vinyl Chloride          | 1.85  | 62   | 4162     | 1.785   | ug/l   | 92     |
| 16) Acetone                | 3.23  | 43   | 52701    | 72.399  | ug/l   | 97     |
| 17) Carbon Disulfide       | 3.40  | 76   | 71627    | 6.917   | ug/l   | 100    |
| 20) Methylene Chloride     | 3.84  | 84   | 36962    | 7.138   | ug/l   | 95     |
| 25) 2-Butanone             | 6.10  | 43   | 20716    | 25.080  | ug/l # | 77     |
| 27) cis-1,2-Dichloroethene | 6.07  | 96   | 113814   | 32.286  | ug/l   | 83     |
| 44) Trichloroethene        | 8.57  | 130  | 35447    | 8.063   | ug/l   | 89     |
| 51) 4-Methyl-2-Pentanone   | 10.32 | 43   | 22779    | 11.218  | ug/l   | 97     |
| 64) Tetrachloroethene      | 11.29 | 164  | 61719    | 30.043  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 14.25 | 105  | 8482     | 2.618   | ug/l   | 91     |
| 84) 1,2,4-Trimethylbenzene | 14.25 | 105  | 8482     | 2.618   | ug/l   | 91     |
| 86) p-Isopropyltoluene     | 14.50 | 119  | 2573242  | 727.375 | ug/l   | 99     |
| 95) Naphthalene            | 16.14 | 128  | 4991     | 4.366   | ug/l # | 95     |

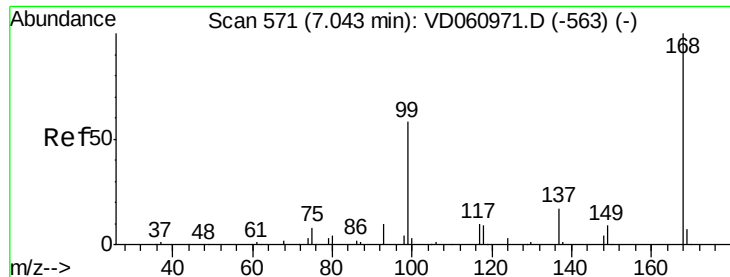
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD031519\  
Data File : VD061096.D  
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Operator : VA/AP  
Sample : K1926-01  
Misc : 5.00g/5ml/MSVOA\_D/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SUMP-MUCK

Quant Time: Mar 16 06:38:03 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD061096.D

Acq: 15 Mar 2019 19:37

Instrument :

MSVOA\_D

ClientSampleId :

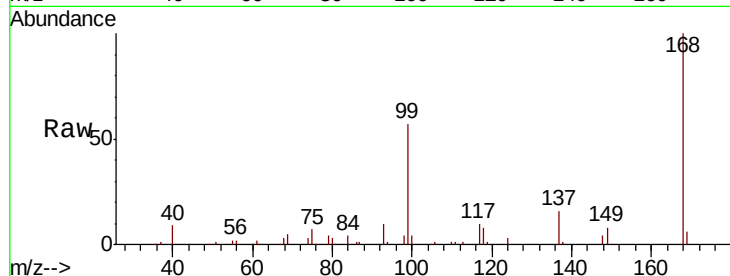
SUMP-MUCK

Tgt Ion: 168 Resp: 305814

Ion Ratio Lower Upper

168 100

99 56.6 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

120000

100000

80000

60000

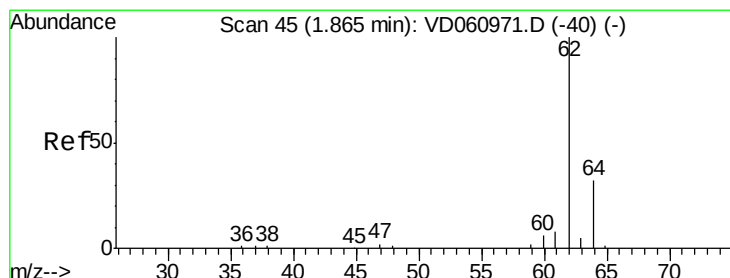
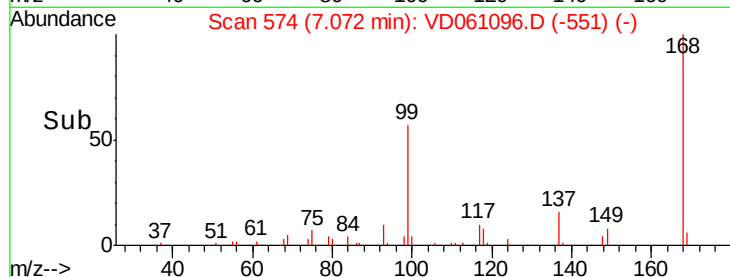
40000

20000

0

Time-->

7.00 7.10 7.20



#4

Vinyl Chloride

Concen: 1.785 ug/l

RT: 1.85 min Scan# 44

Delta R.T. -0.01 min

Lab File: VD061096.D

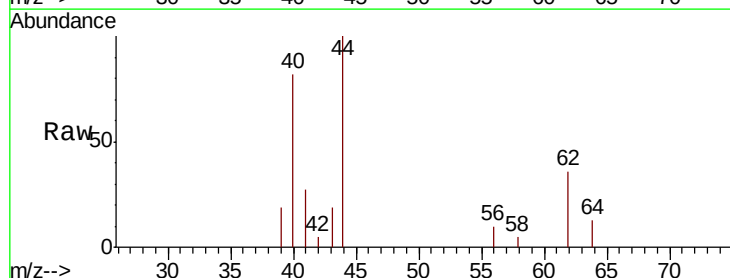
Acq: 15 Mar 2019 19:37

Tgt Ion: 62 Resp: 4162

Ion Ratio Lower Upper

62 100

64 35.9 25.2 37.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

2500

2000

1500

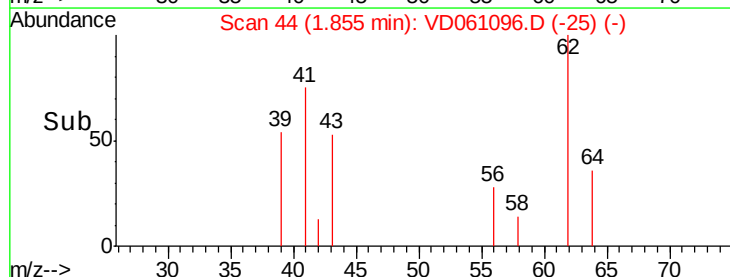
1000

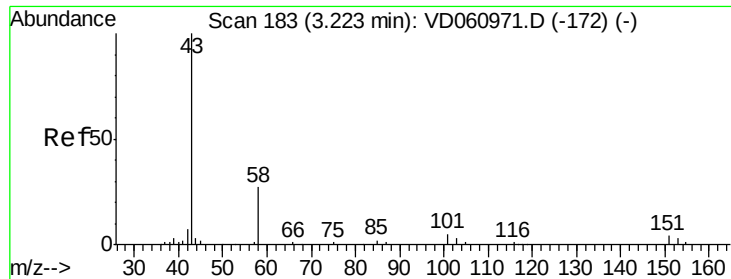
500

0

Time-->

1.80 1.85 1.90





#16

Acetone

Concen: 72.399 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD061096.D

Acq: 15 Mar 2019 19:37

Instrument :

MSVOA\_D

ClientSampleId :

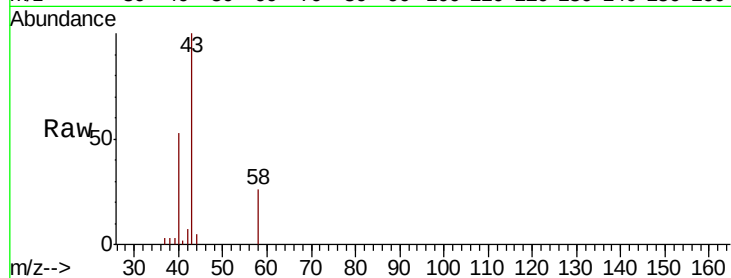
SUMP-MUCK

Tgt Ion: 43 Resp: 52701

Ion Ratio Lower Upper

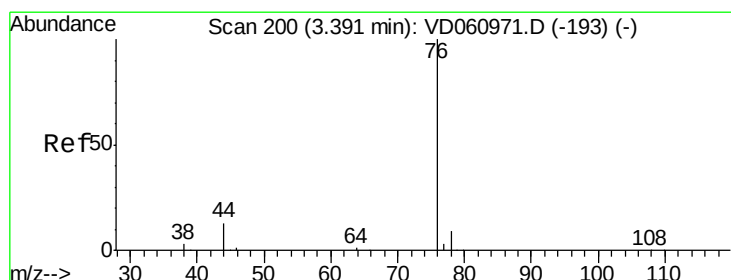
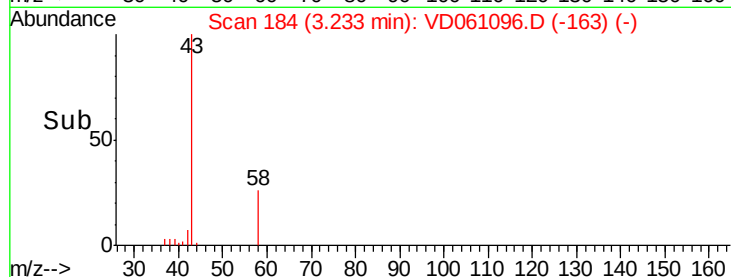
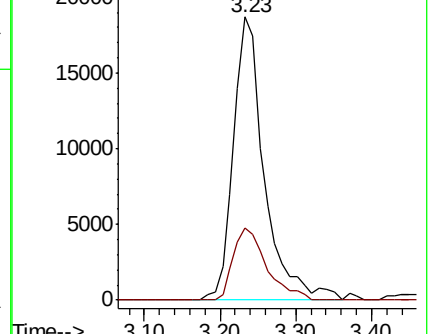
43 100

58 25.6 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 6.917 ug/l

RT: 3.40 min Scan# 201

Delta R.T. 0.01 min

Lab File: VD061096.D

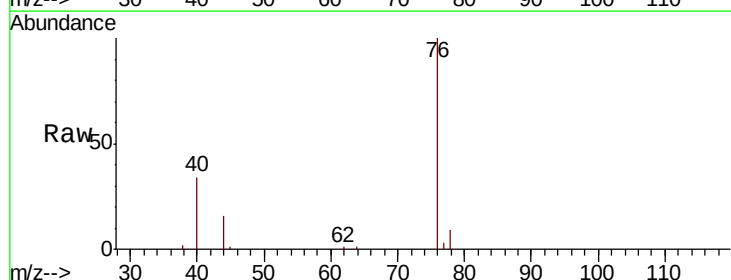
Acq: 15 Mar 2019 19:37

Tgt Ion: 76 Resp: 71627

Ion Ratio Lower Upper

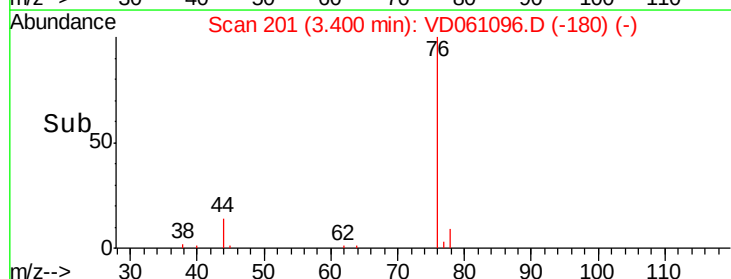
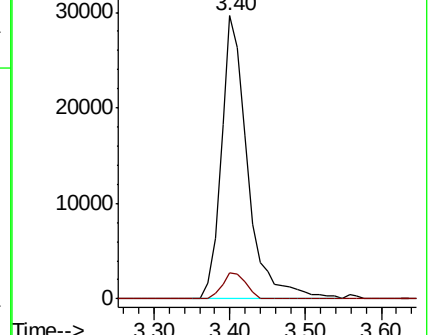
76 100

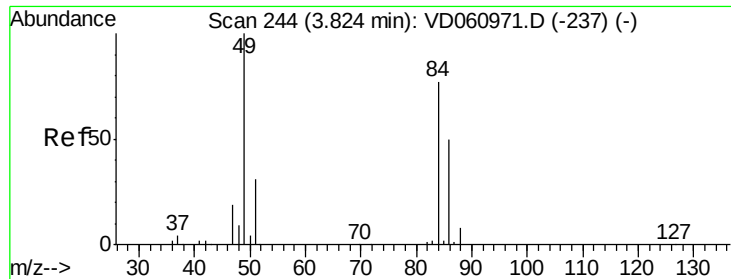
78 9.2 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

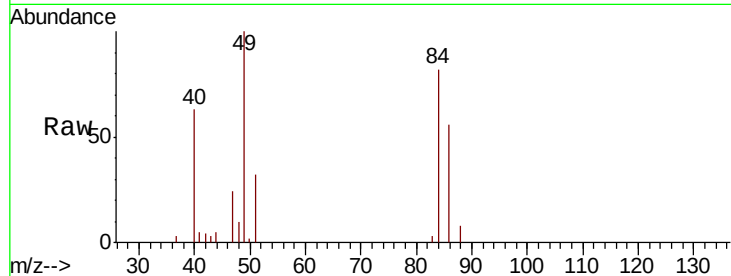




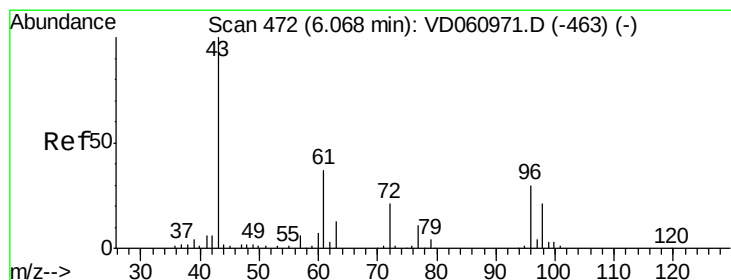
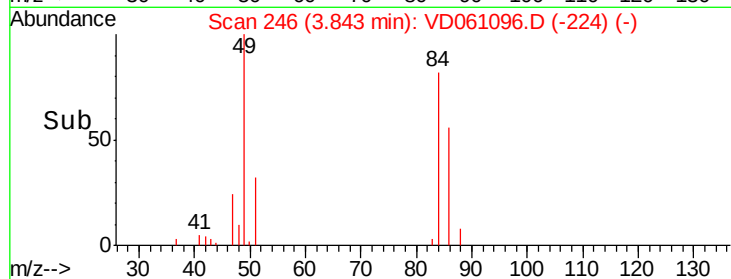
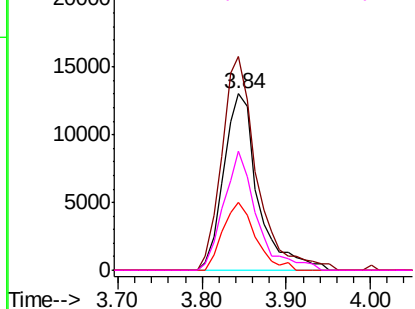
#20  
Methylene Chloride  
Concen: 7.138 ug/l  
RT: 3.84 min Scan# 246  
Delta R.T. 0.02 min  
Lab File: VD061096.D  
Acq: 15 Mar 2019 19:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
SUMP-MUCK

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 36962 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 121.3 | 104.2 | 156.2 |
| 51       | 38.8  | 32.3  | 48.5  |
| 86       | 67.8  | 52.3  | 78.5  |

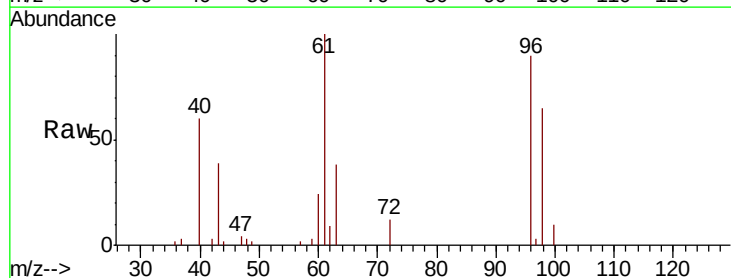


Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

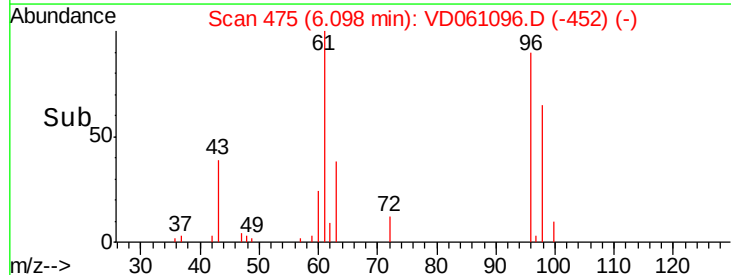
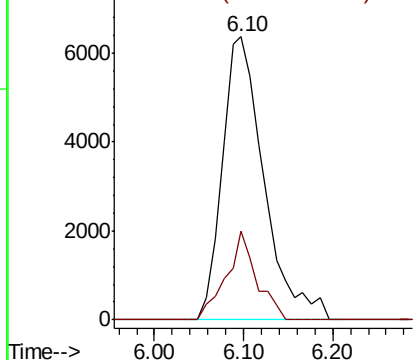


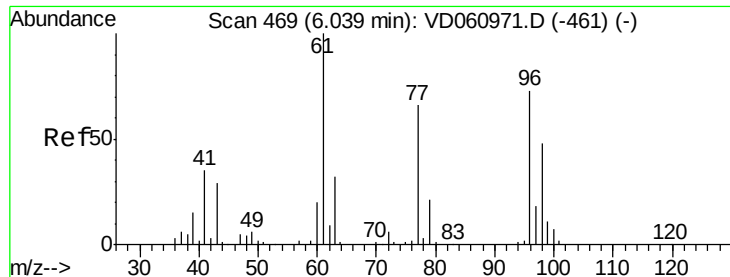
#25  
2-Butanone  
Concen: 25.080 ug/l  
RT: 6.10 min Scan# 475  
Delta R.T. 0.03 min  
Lab File: VD061096.D  
Acq: 15 Mar 2019 19:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 20716 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 31.5  | 16.7  | 25.1# |



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 72.00 (71.70 to 72.70): VDC



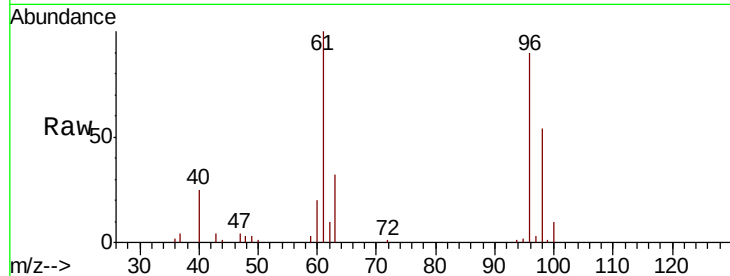


#27

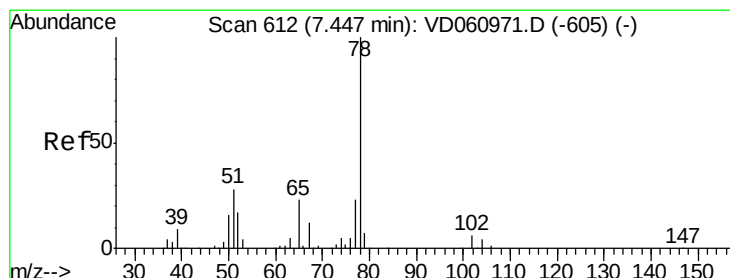
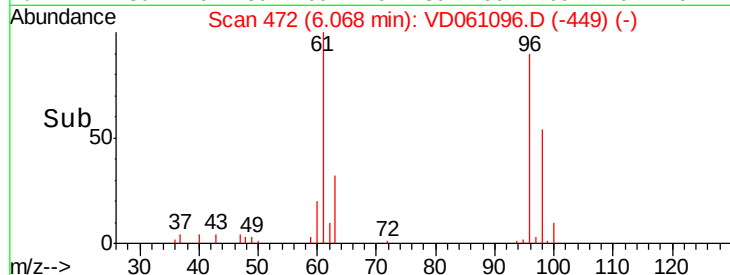
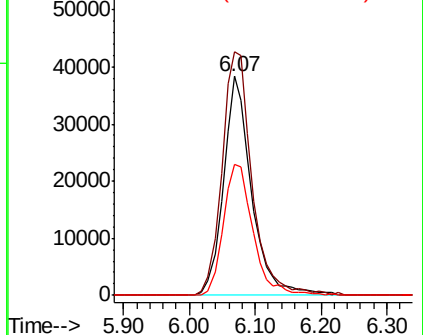
cis-1,2-Dichloroethene  
 Concen: 32.286 ug/l  
 RT: 6.07 min Scan# 472  
 Delta R.T. 0.03 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SUMP-MUCK

Tgt Ion: 96 Resp: 113814  
 Ion Ratio Lower Upper  
 96 100  
 61 111.2 0.0 273.6  
 98 59.8 0.0 132.6



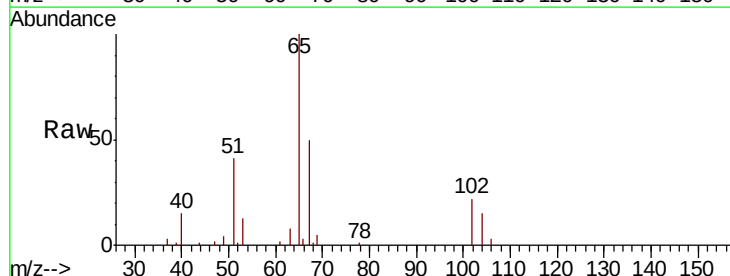
Abundance Ion 95.90 (95.60 to 96.60): VDC  
 Ion 60.95 (60.65 to 61.65): VDC  
 Ion 97.85 (97.55 to 98.55): VDC



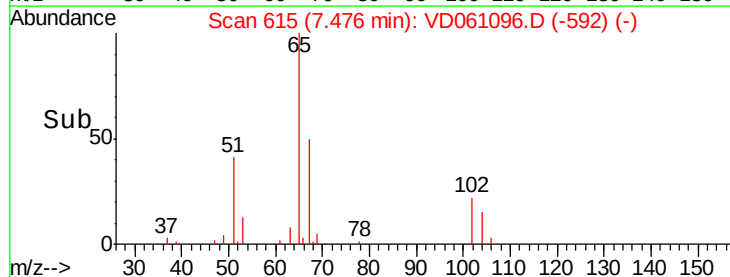
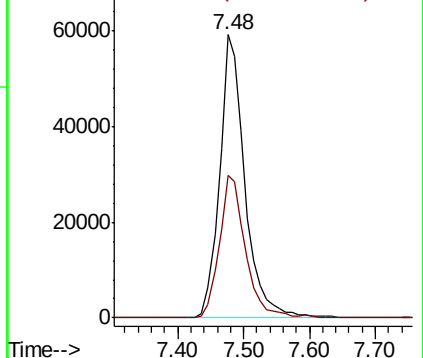
#33

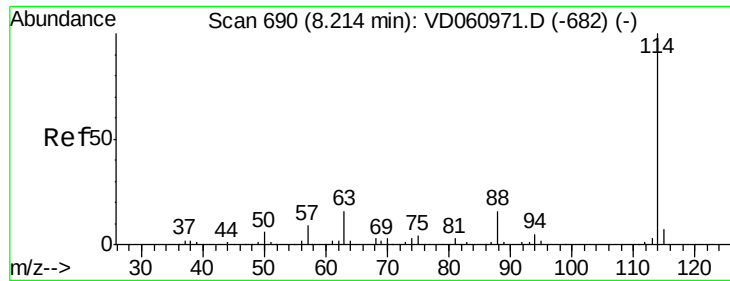
1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 7.48 min Scan# 615  
 Delta R.T. 0.03 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

Tgt Ion: 65 Resp: 157650  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC  
 Ion 66.90 (66.60 to 67.60): VDC

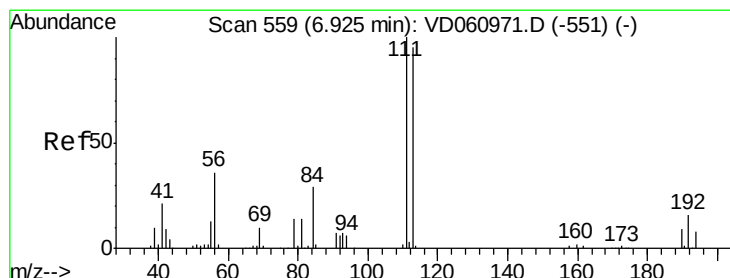
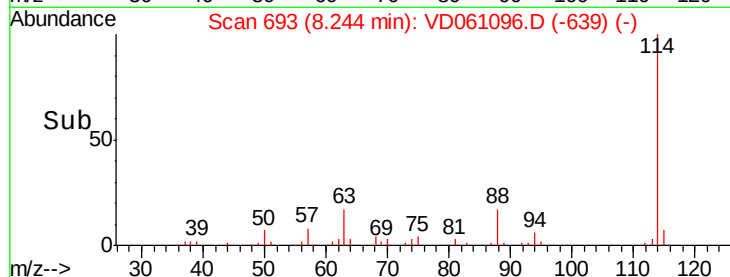
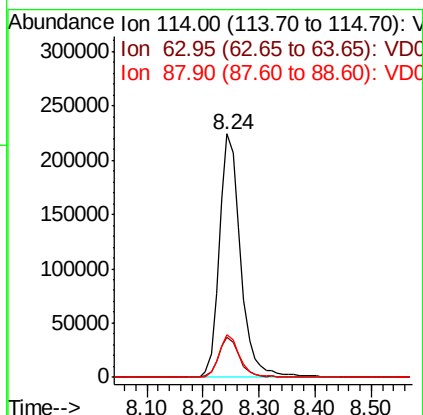
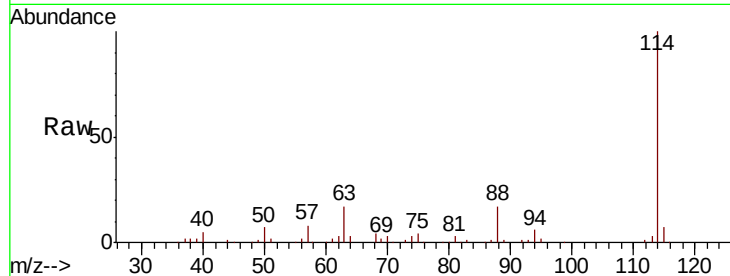




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.24 min Scan# 693  
 Delta R.T. 0.03 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

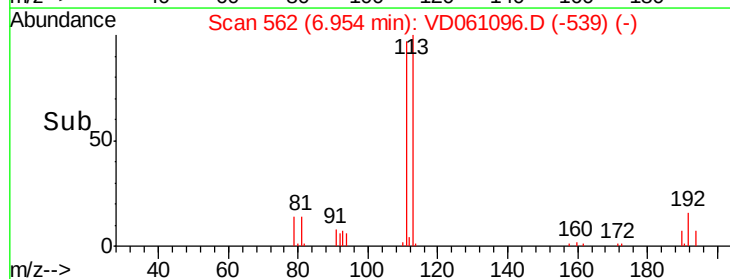
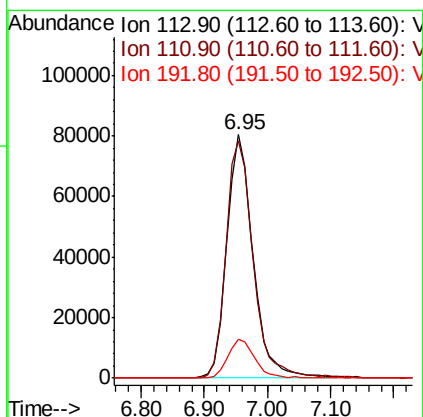
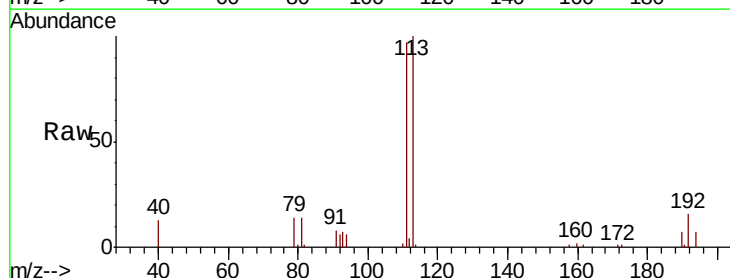
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SUMP-MUCK

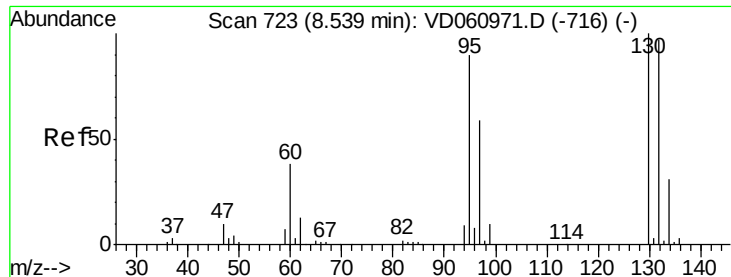
Tgt Ion:114 Resp: 591638  
 Ion Ratio Lower Upper  
 114 100  
 63 16.6 0.0 31.4  
 88 17.3 0.0 33.0



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.95 min Scan# 562  
 Delta R.T. 0.03 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

Tgt Ion:113 Resp: 231384  
 Ion Ratio Lower Upper  
 113 100  
 111 97.4 84.2 126.4  
 192 15.8 13.1 19.7





#44

Trichloroethene

Concen: 8.063 ug/l

RT: 8.57 min Scan# 726

Delta R.T. 0.03 min

Lab File: VD061096.D

Acq: 15 Mar 2019 19:37

Instrument :

MSVOA\_D

ClientSampleId :

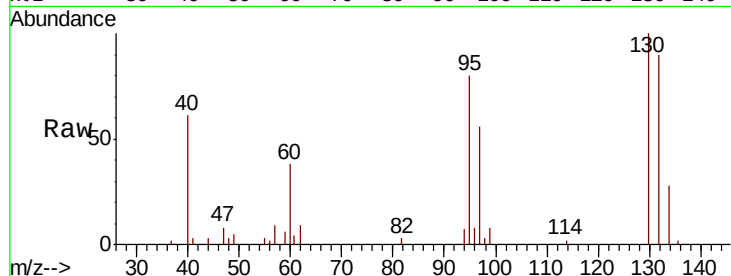
SUMP-MUCK

Tgt Ion:130 Resp: 35447

Ion Ratio Lower Upper

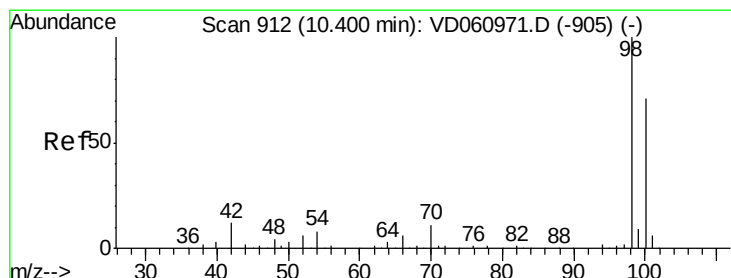
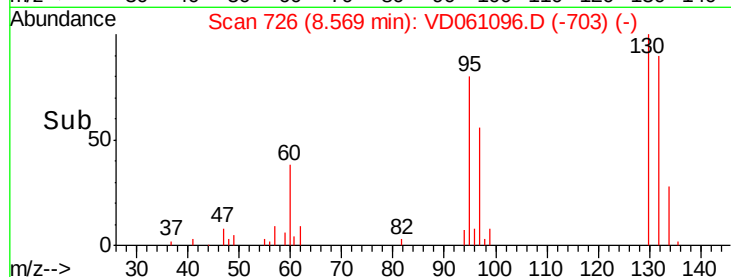
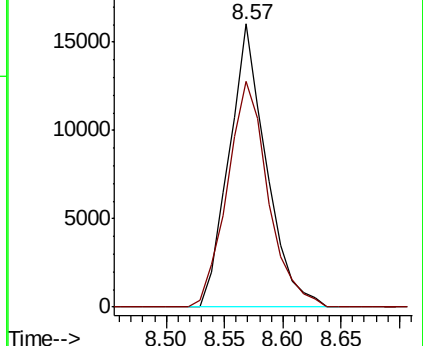
130 100

95 79.8 0.0 179.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.04 min

Lab File: VD061096.D

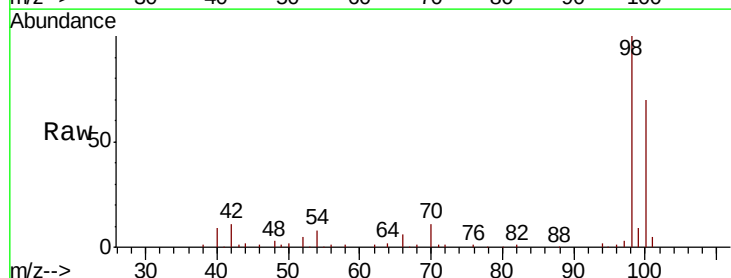
Acq: 15 Mar 2019 19:37

Tgt Ion: 98 Resp: 403420

Ion Ratio Lower Upper

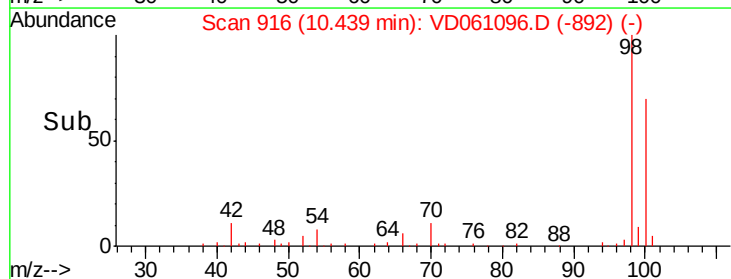
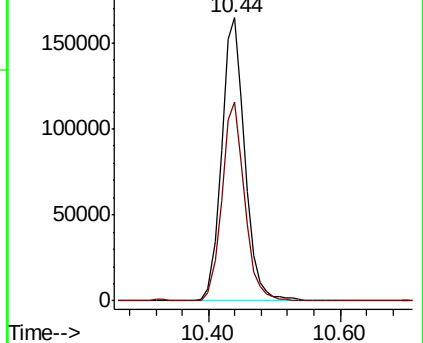
98 100

100 70.3 57.4 86.2

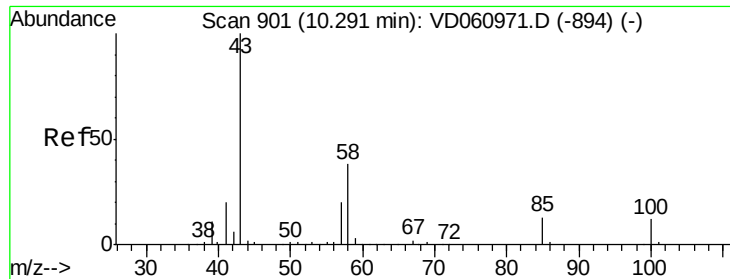


Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



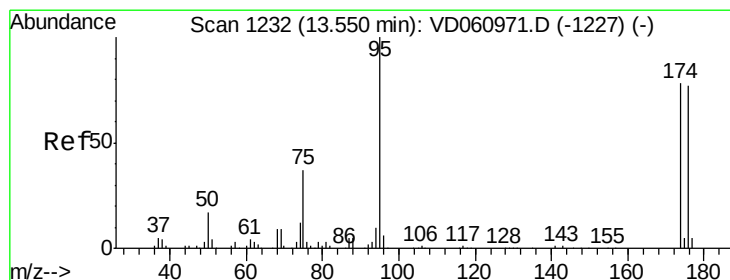
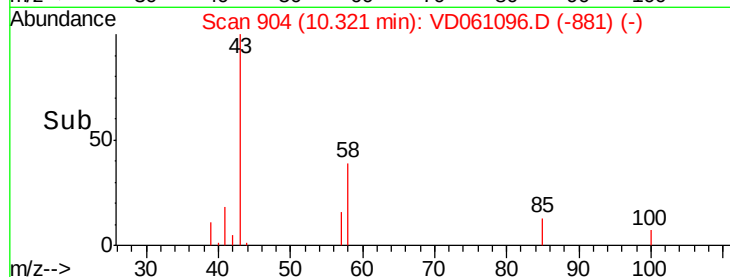
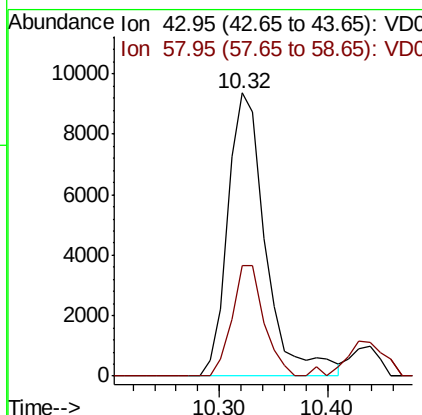
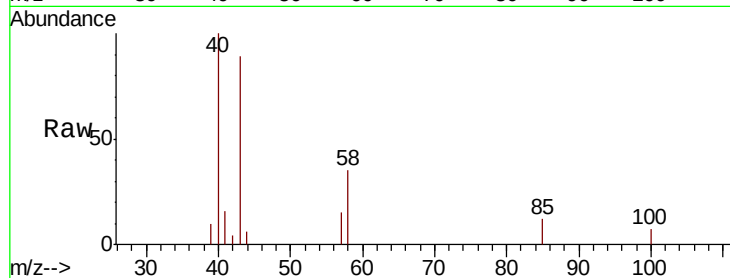




#51  
 4-Methyl-2-Pentanone  
 Concen: 11.218 ug/l  
 RT: 10.32 min Scan# 904  
 Delta R.T. 0.03 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

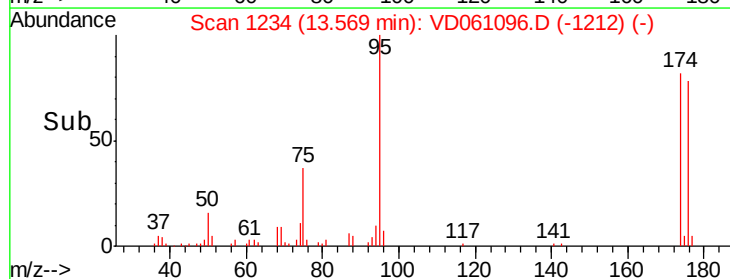
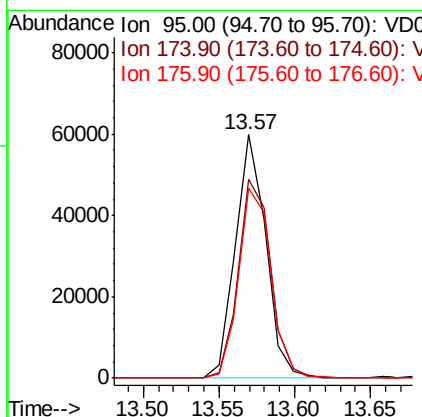
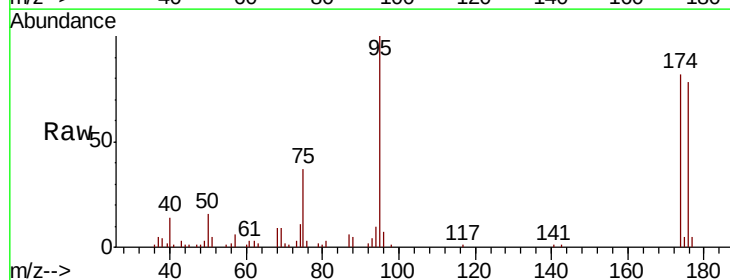
Instrument :  
 MSVOA\_D  
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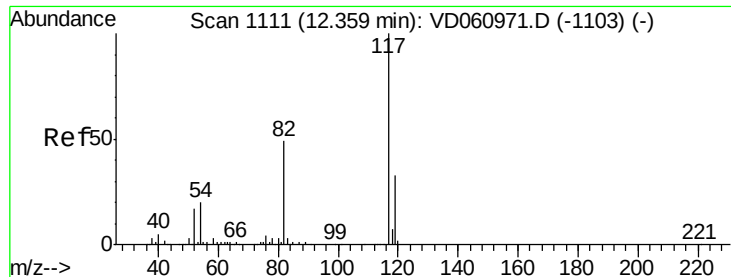
Tgt Ion: 43 Resp: 22779  
 Ion Ratio Lower Upper  
 43 100  
 58 39.2 30.2 45.2



#62  
 4-Bromofluorobenzene  
 Concen: N.D. ug/l  
 RT: 13.57 min Scan# 1234  
 Delta R.T. 0.02 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

Tgt Ion: 95 Resp: 83232  
 Ion Ratio Lower Upper  
 95 100  
 174 81.7 0.0 155.6  
 176 78.2 0.0 153.8

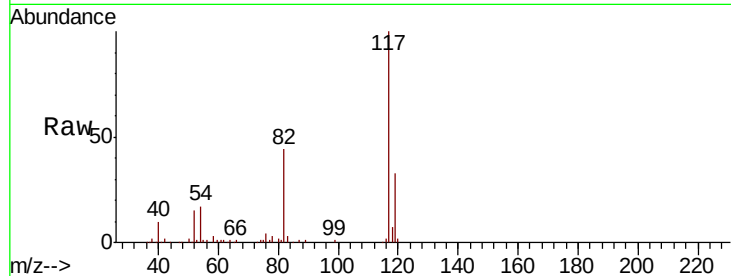




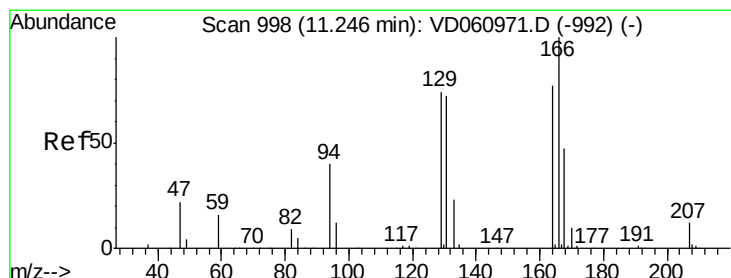
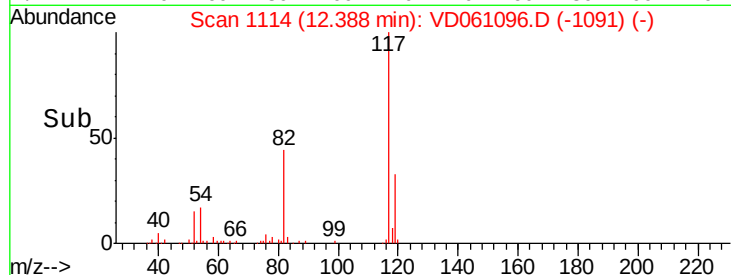
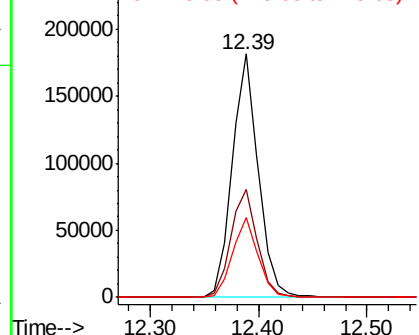
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.39 min Scan# 1114  
Delta R.T. 0.03 min  
Lab File: VD061096.D  
Acq: 15 Mar 2019 19:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
SUMP-MUCK

Tgt Ion:117 Resp: 304332  
Ion Ratio Lower Upper  
117 100  
82 44.1 38.9 58.3  
119 32.7 26.6 39.8

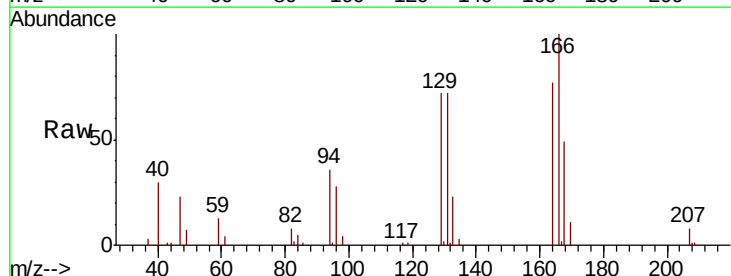


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

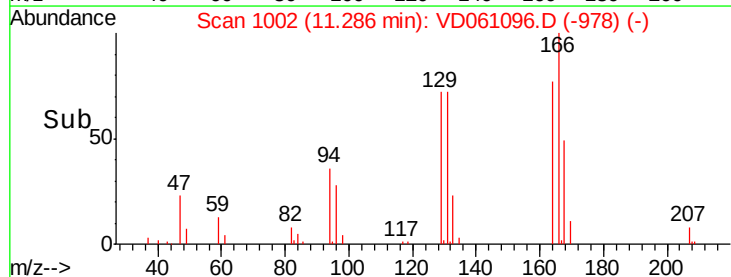
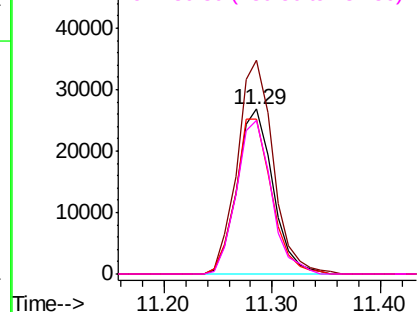


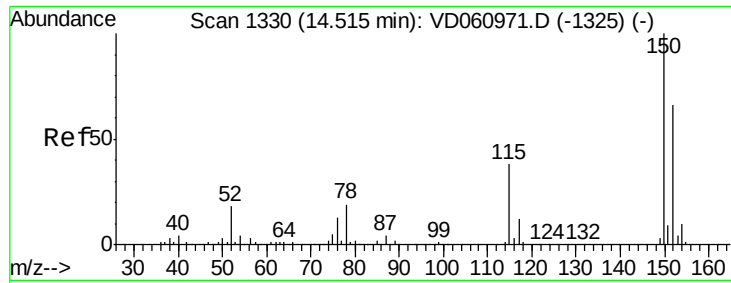
#64  
Tetrachloroethene  
Concen: 30.043 ug/l  
RT: 11.29 min Scan# 1002  
Delta R.T. 0.04 min  
Lab File: VD061096.D  
Acq: 15 Mar 2019 19:37

Tgt Ion:164 Resp: 61719  
Ion Ratio Lower Upper  
164 100  
166 129.6 103.4 155.0  
129 93.8 76.9 115.3  
131 93.2 74.4 111.6



Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.85 (165.55 to 166.55): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V

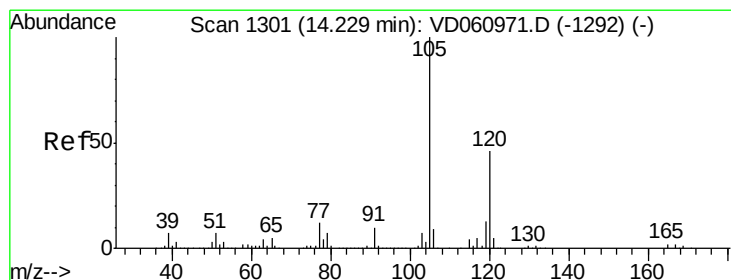
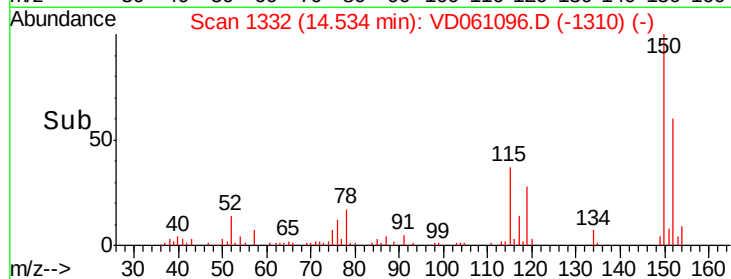
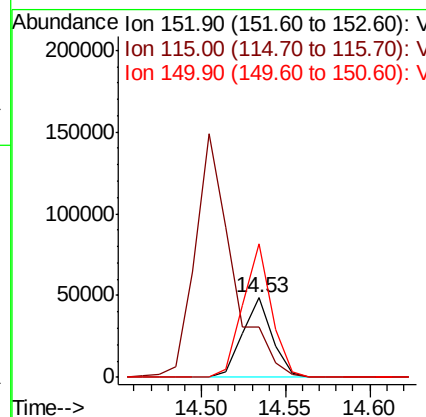
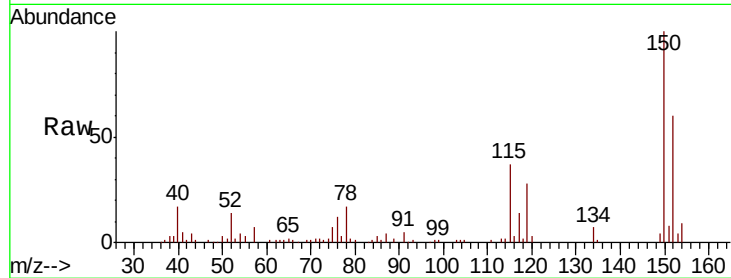




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.53 min Scan# 1332  
 Delta R.T. 0.02 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

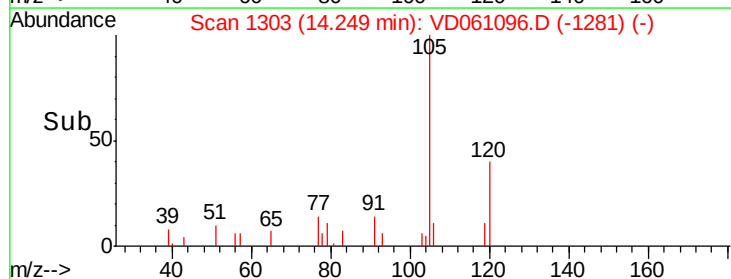
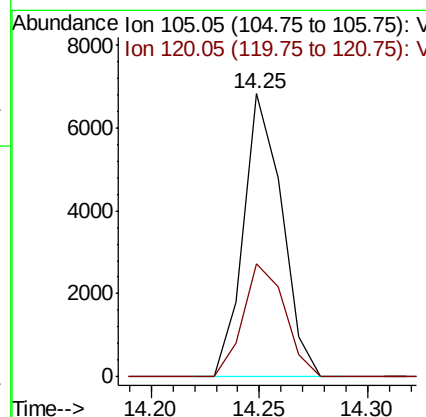
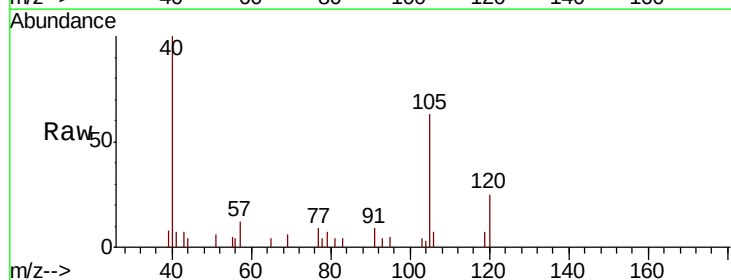
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SUMP-MUCK

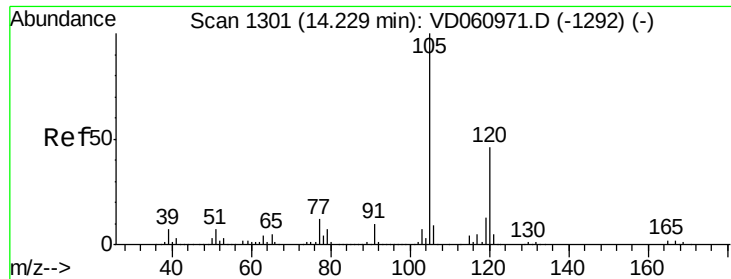
Tgt Ion:152 Resp: 59210  
 Ion Ratio Lower Upper  
 152 100  
 115 63.0 28.6 85.9  
 150 167.9 0.0 310.6



#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.618 ug/l  
 RT: 14.25 min Scan# 1303  
 Delta R.T. 0.02 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

Tgt Ion:105 Resp: 8482  
 Ion Ratio Lower Upper  
 105 100  
 120 40.0 22.9 68.5

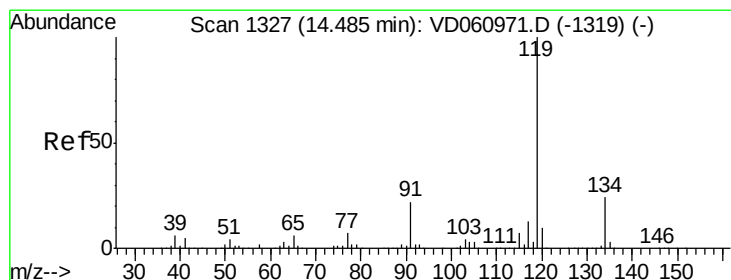
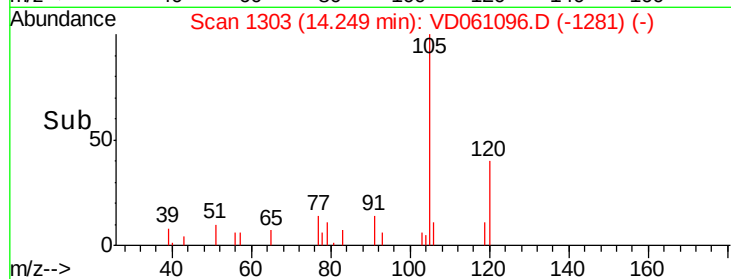
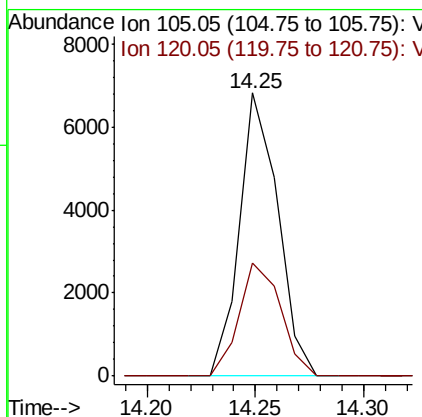
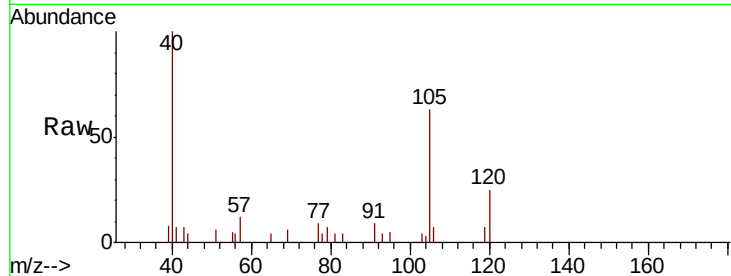




#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.618 ug/l  
 RT: 14.25 min Scan# 1303  
 Delta R.T. 0.02 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

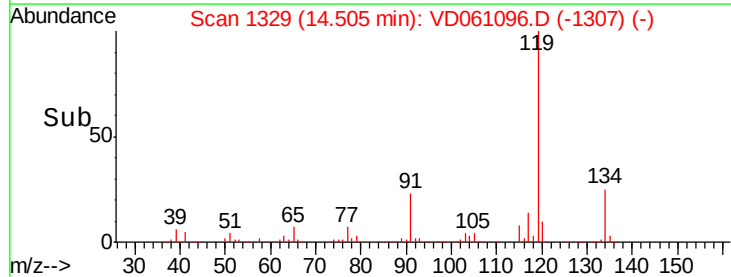
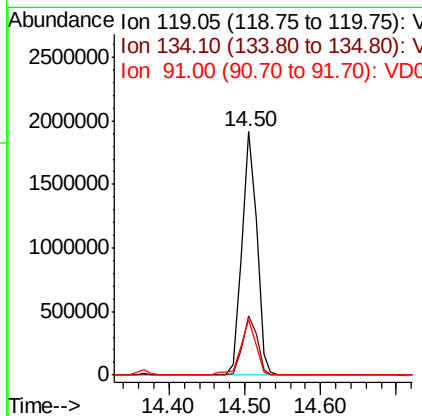
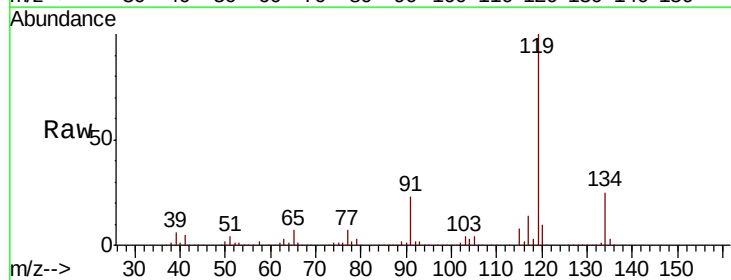
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SUMP-MUCK

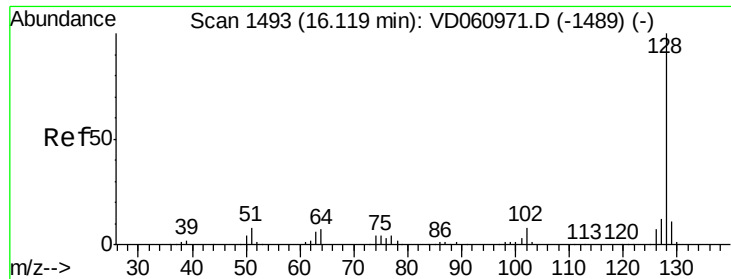
Tgt Ion:105 Resp: 8482  
 Ion Ratio Lower Upper  
 105 100  
 120 40.0 22.9 68.5



#86  
 p-Isopropyltoluene  
 Concen: 727.375 ug/l  
 RT: 14.50 min Scan# 1329  
 Delta R.T. 0.02 min  
 Lab File: VD061096.D  
 Acq: 15 Mar 2019 19:37

Tgt Ion:119 Resp: 2573242  
 Ion Ratio Lower Upper  
 119 100  
 134 24.6 12.0 36.1  
 91 22.9 11.2 33.6





#95

Naphthalene

Concen: 4.366 ug/l

RT: 16.14 min Scan# 1495

Delta R.T. 0.02 min

Lab File: VD061096.D

Acq: 15 Mar 2019 19:37

Instrument :

MSVOA\_D

ClientSampleId :

SUMP-MUCK

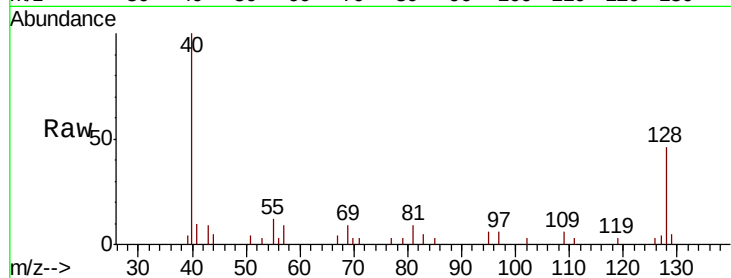
Tgt Ion:128 Resp: 4991

Ion Ratio Lower Upper

128 100

127 9.4 9.8 14.8#

129 11.3 8.5 12.7



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

