

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD072720\  
 Data File : VD066067.D  
 Acq On : 27 Jul 2020 15:19  
 Operator : VA/SY  
 Sample : L3436-20  
 Misc : 6.65G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20

Quant Time: Jul 27 17:50:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 12:34:13 2020  
 Response via : Initial Calibration

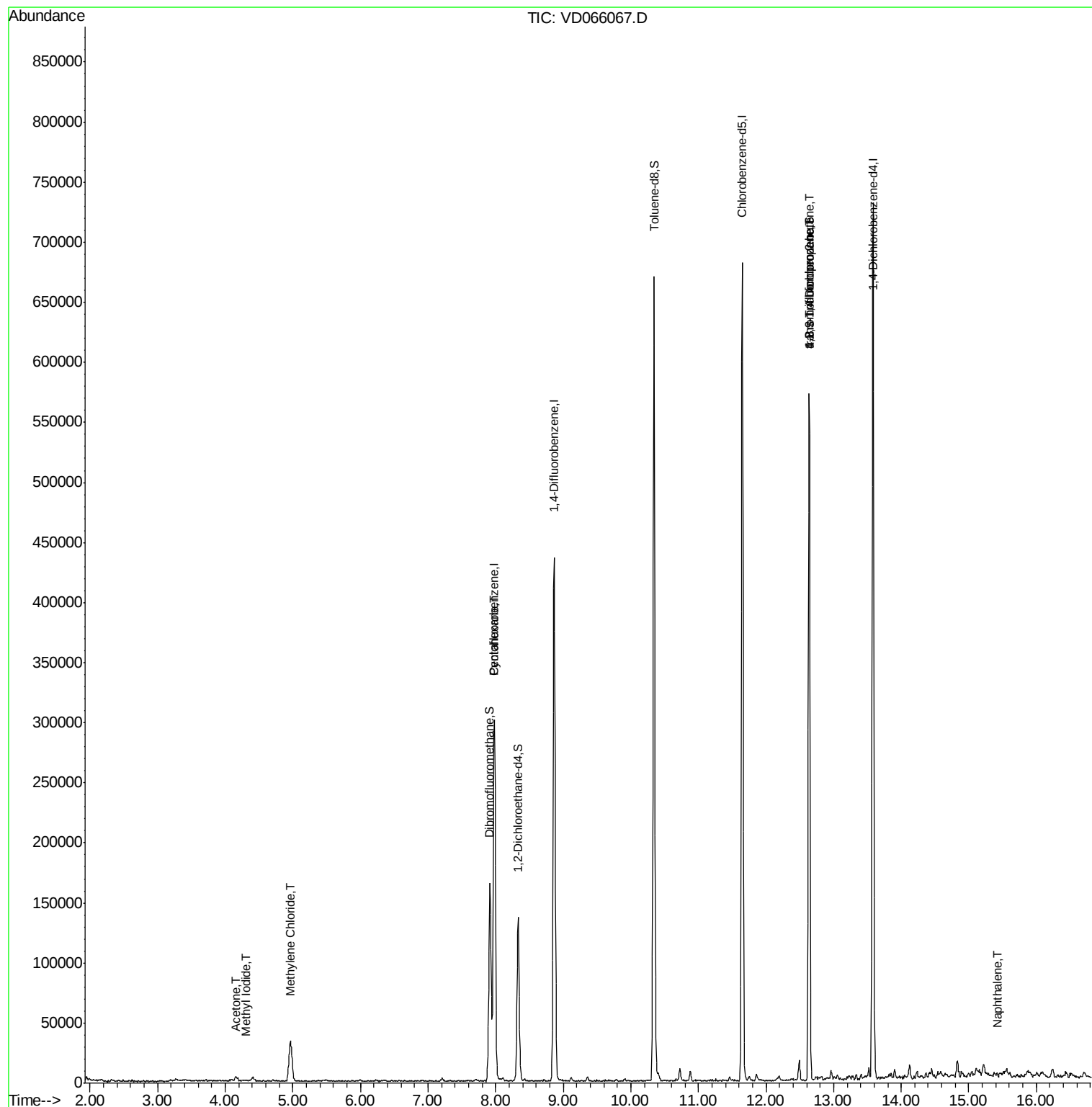
| Internal Standards             | R.T.  | QIon | Response | Conc           | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|----------------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 251332   | 50.00          | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 382201   | 50.00          | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 397776   | 50.00          | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 208383   | 50.00          | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |                |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 107896   | 52.76          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 105.52% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 117029   | 50.48          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 100.96% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 455642   | 52.76          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 105.52% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 185682   | 62.01          | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =              | 124.02% |          |
| Target Compounds               |       |      |          |                |         |          |
| 5) Bromomethane                | 2.77  | 94   | 141      | Below Cal      |         | 87       |
| 10) Methyl Iodide              | 4.31  | 142  | 222      | 8.896 ug/l #   |         | 68       |
| 11) Tert butyl alcohol         | 5.21  | 59   | 71       | Below Cal #    |         | 83       |
| 16) Acetone                    | 4.16  | 43   | 6571     | 15.874 ug/l #  |         | 85       |
| 20) Methylene Chloride         | 4.96  | 84   | 26688    | 9.243 ug/l     |         | 90       |
| 31) Cyclohexane                | 7.98  | 56   | 4809     | 1.307 ug/l #   |         | 21       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 89136    | 56.810 ug/l #  |         | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 89136    | 130.360 ug/l # |         | 11       |
| 95) Naphthalene                | 15.41 | 128  | 1701     | 3.786 ug/l #   |         | 78       |

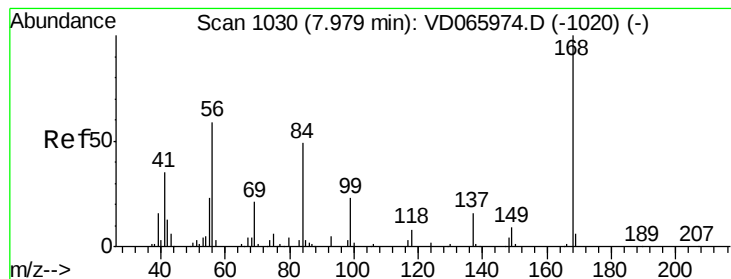
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD072720\  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20

Quant Time: Jul 27 17:50:35 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072120S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 21 12:34:13 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

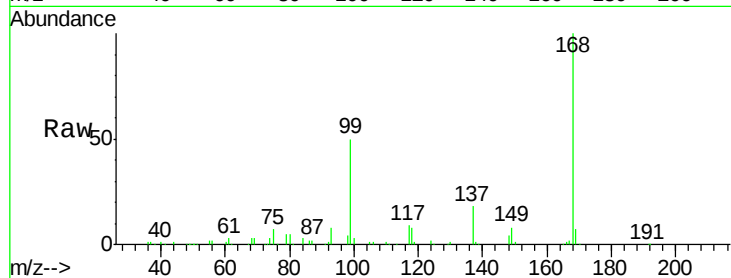
Instrument :  
MSVOA\_D  
ClientSampleId :  
20

Tgt Ion: 168 Resp: 251332

Ion Ratio Lower Upper

168 100

99 50.4 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

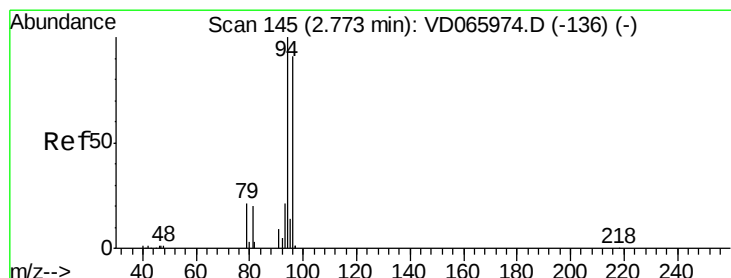
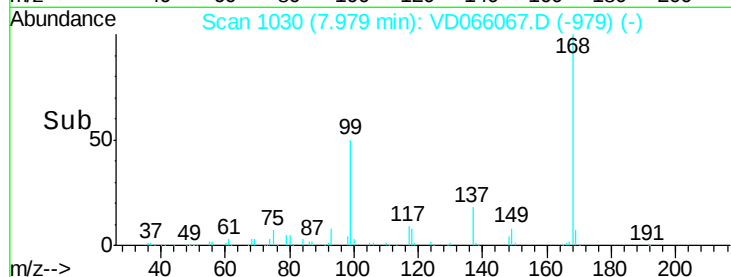
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD066067.D

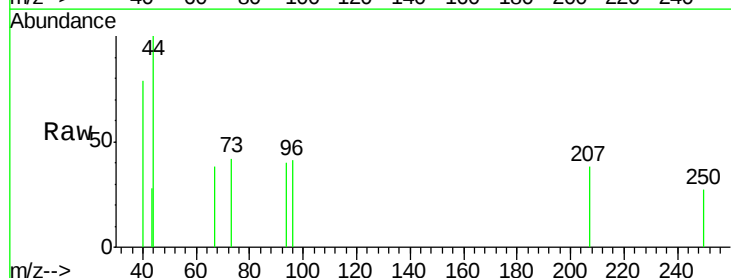
Acq: 27 Jul 2020 15:19

Tgt Ion: 94 Resp: 141

Ion Ratio Lower Upper

94 100

96 103.1 73.0 109.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

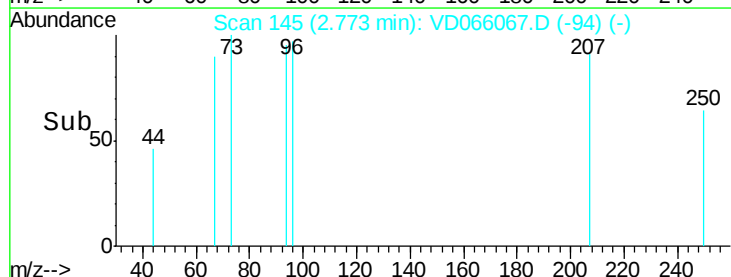
300

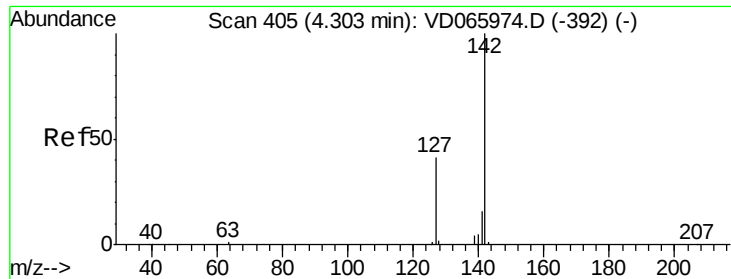
200

100

0

Time-->





#10

Methyl Iodide

Concen: 8.896 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.01 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

Instrument :

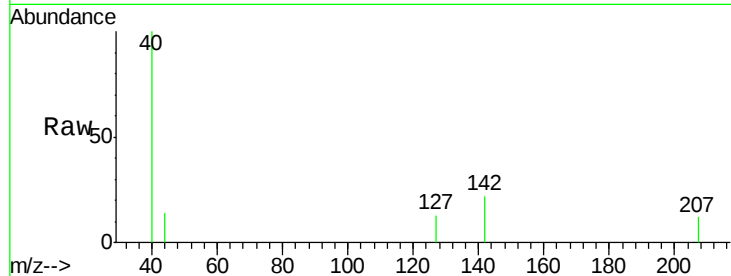
MSVOA\_D

ClientSampleId :

20

Tgt Ion:142 Resp: 222

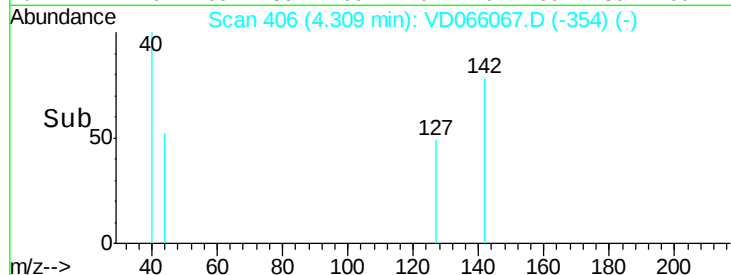
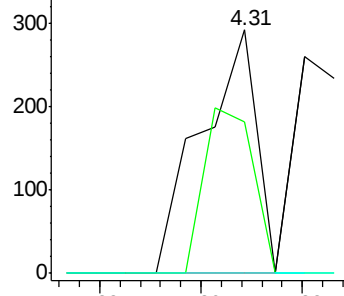
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 127 | 60.4  | 32.9  | 49.3# |
| 141 | 0.0   | 11.8  | 17.6# |



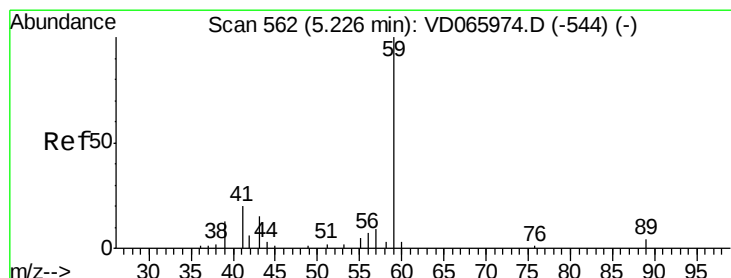
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

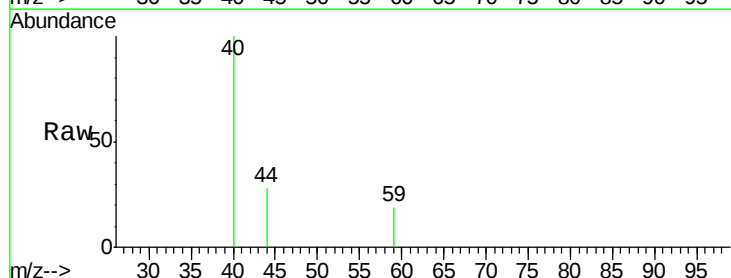
Delta R.T. -0.01 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

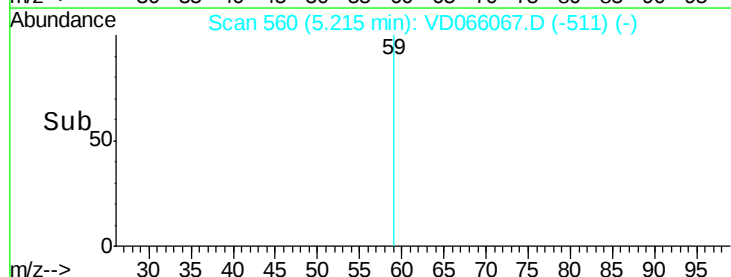
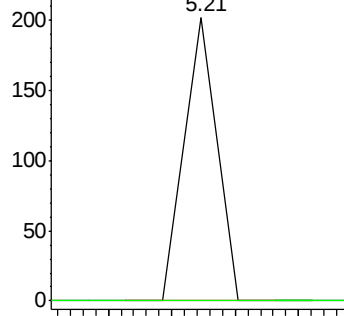
Tgt Ion: 59 Resp: 71

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 59  | 100   |       |       |
| 57  | 0.0   | 4.5   | 6.7#  |

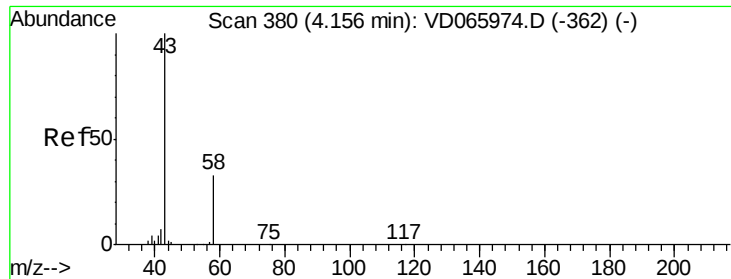


Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



Time-->



#16

Acetone

Concen: 15.874 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

Instrument :

MSVOA\_D

ClientSampled :

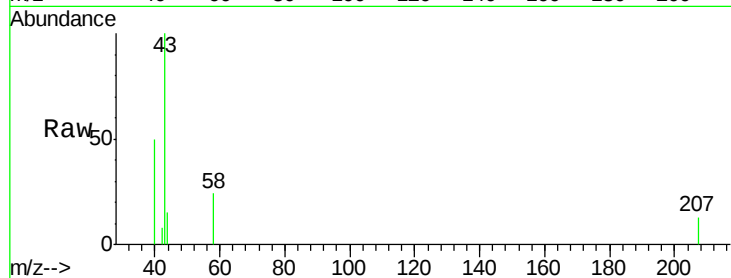
20

Tgt Ion: 43 Resp: 6571

Ion Ratio Lower Upper

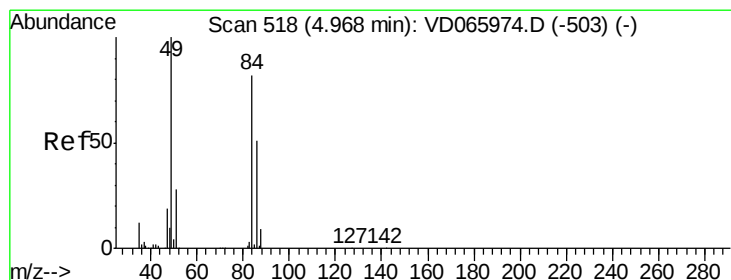
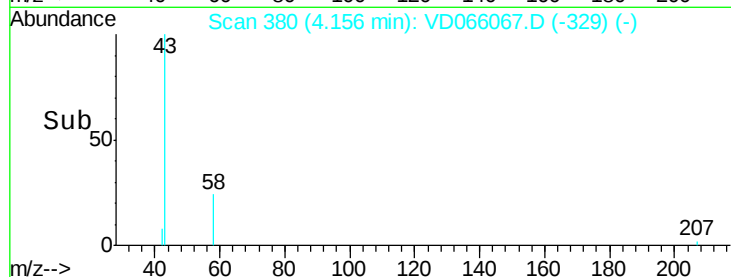
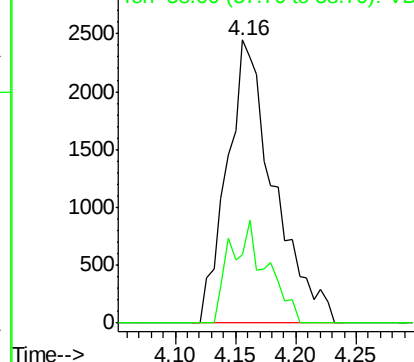
43 100

58 24.3 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 9.243 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

Tgt Ion: 84 Resp: 26688

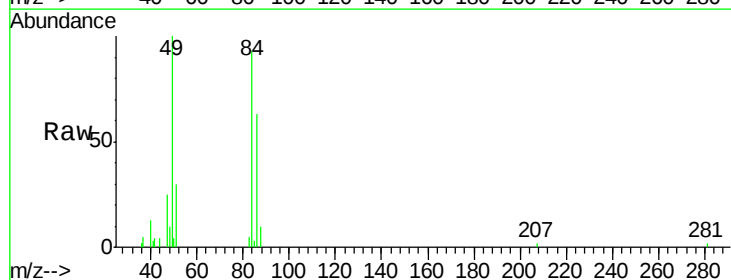
Ion Ratio Lower Upper

84 100

49 107.4 97.7 146.5

51 31.8 27.4 41.2

86 67.5 49.4 74.2

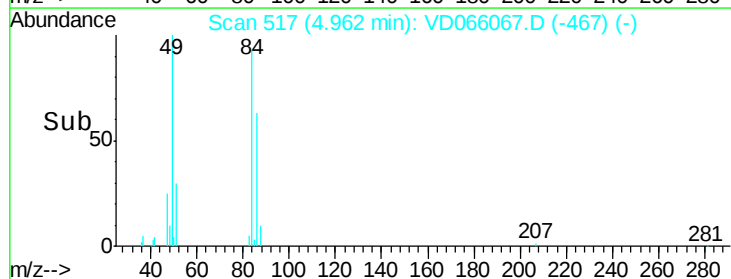
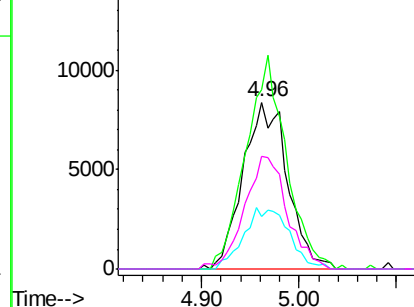


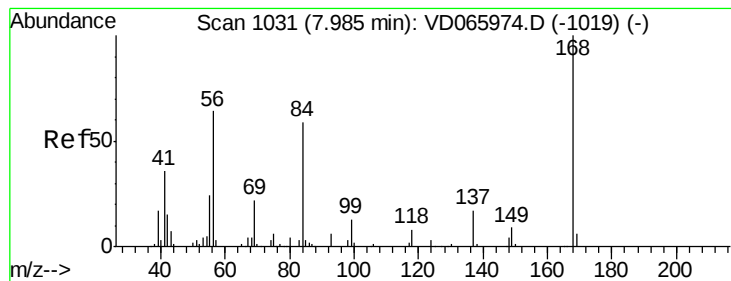
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#31

Cyclohexane

Concen: 1.307 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

Instrument :  
MSVOA\_D  
ClientSampleId :  
20

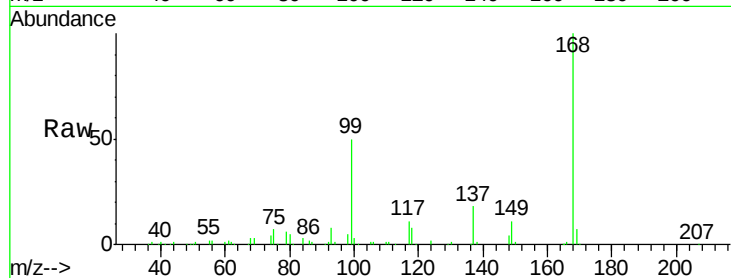
Tgt Ion: 56 Resp: 4809

Ion Ratio Lower Upper

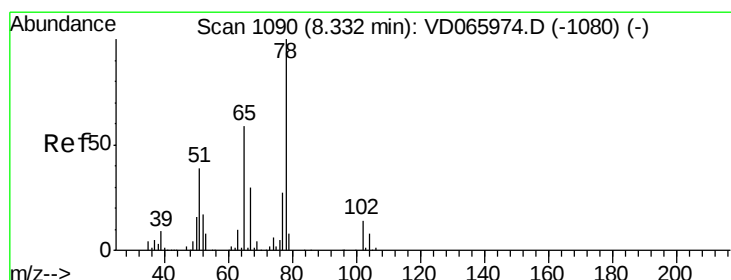
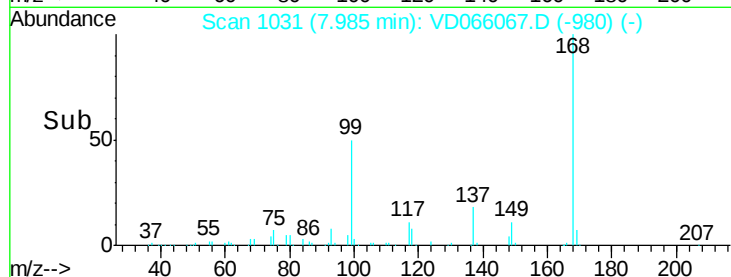
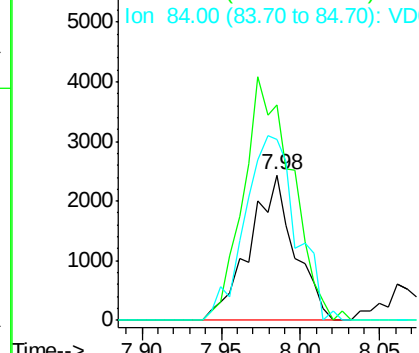
56 100

69 147.5 28.0 42.0#

84 123.9 72.6 109.0#



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 52.759 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD066067.D

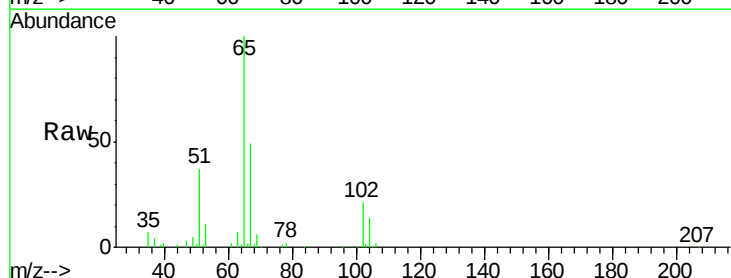
Acq: 27 Jul 2020 15:19

Tgt Ion: 65 Resp: 107896

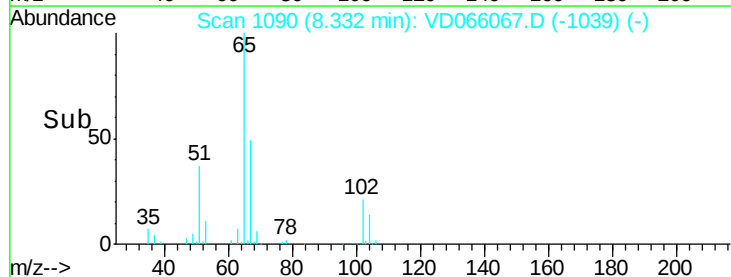
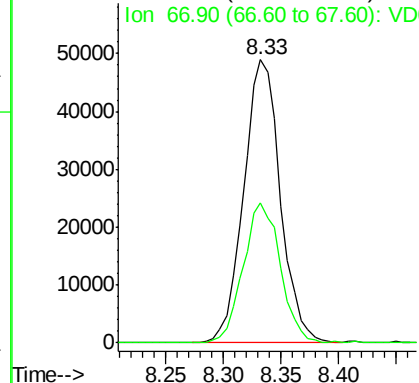
Ion Ratio Lower Upper

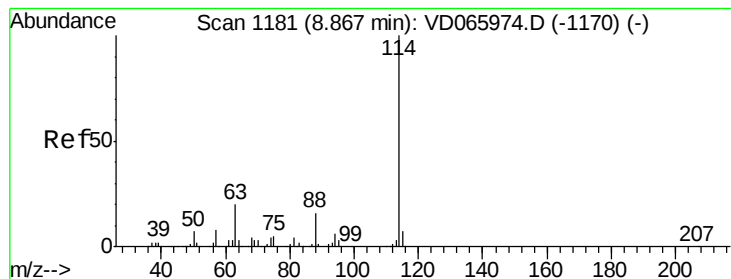
65 100

67 50.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

Instrument :

MSVOA\_D

ClientSampleId :

20

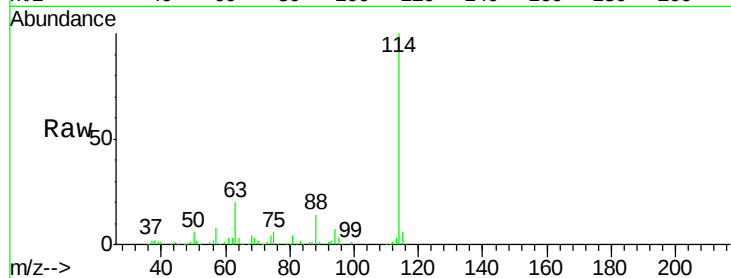
Tgt Ion:114 Resp: 382201

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

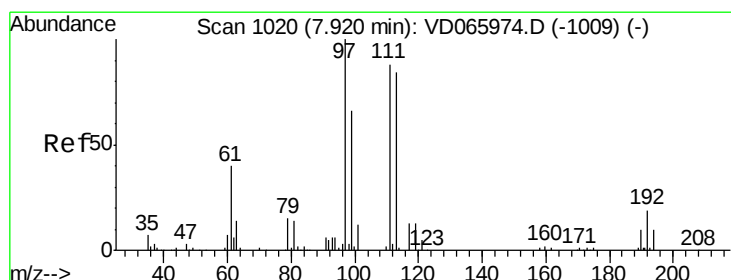
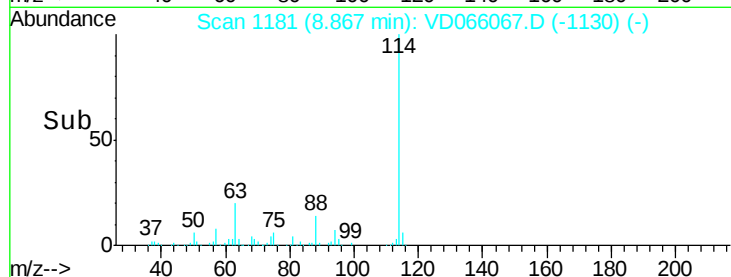
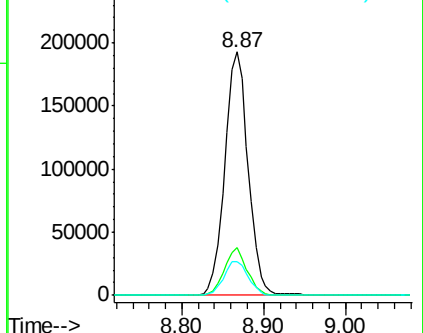
88 14.0 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.483 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

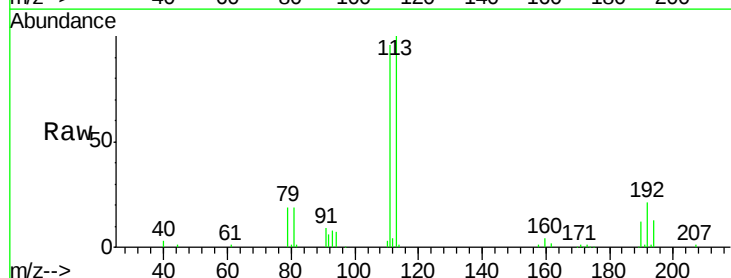
Tgt Ion:113 Resp: 117029

Ion Ratio Lower Upper

113 100

111 100.3 83.2 124.8

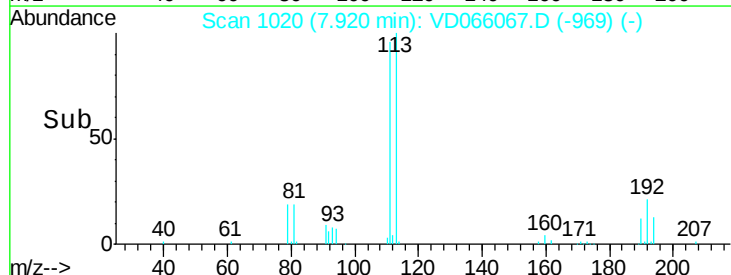
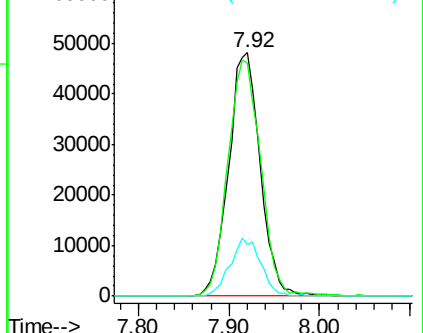
192 23.2 18.7 28.1

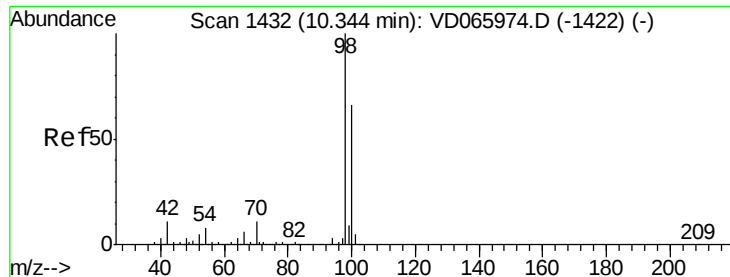


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 52.762 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

Instrument :

MSVOA\_D

ClientSampleId :

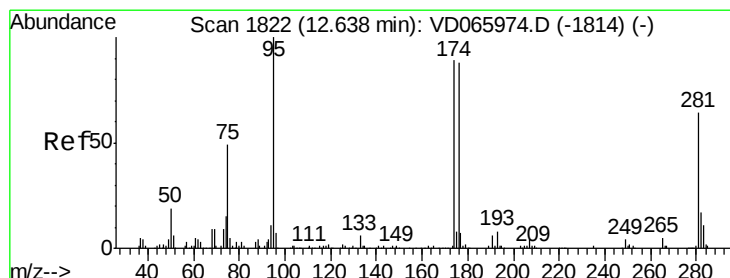
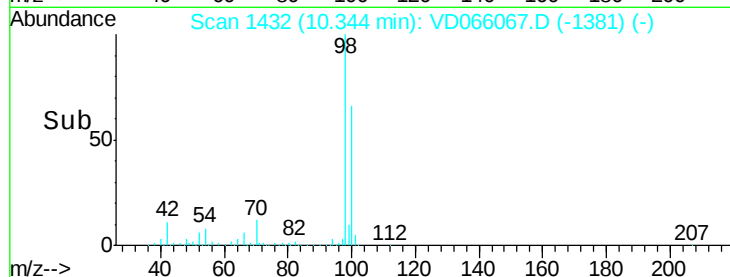
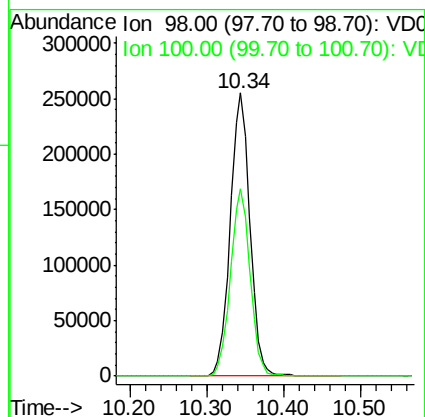
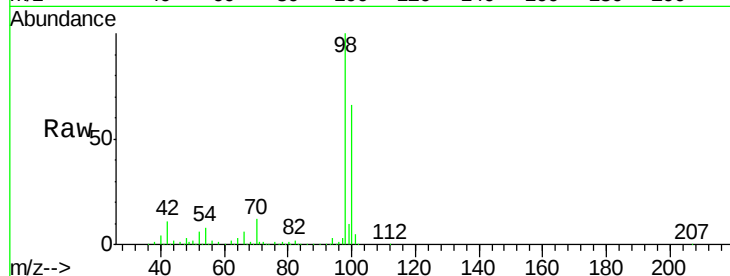
20

Tgt Ion: 98 Resp: 455642

Ion Ratio Lower Upper

98 100

100 66.3 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 62.011 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

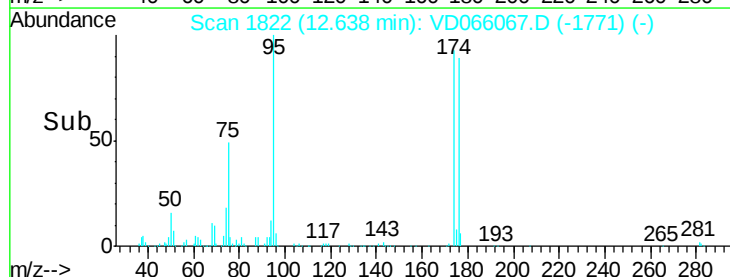
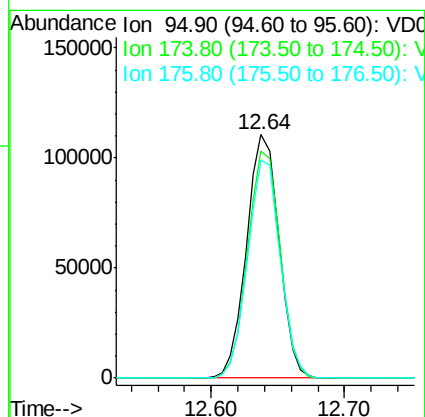
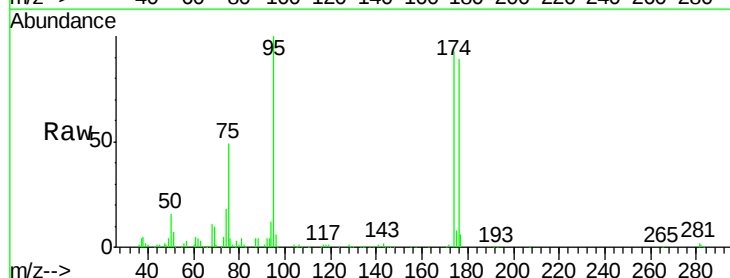
Tgt Ion: 95 Resp: 185682

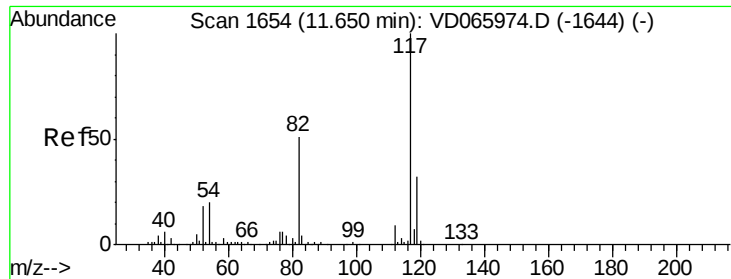
Ion Ratio Lower Upper

95 100

174 93.8 0.0 178.8

176 89.3 0.0 172.6

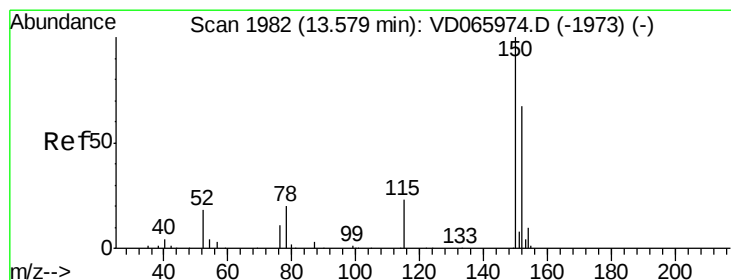
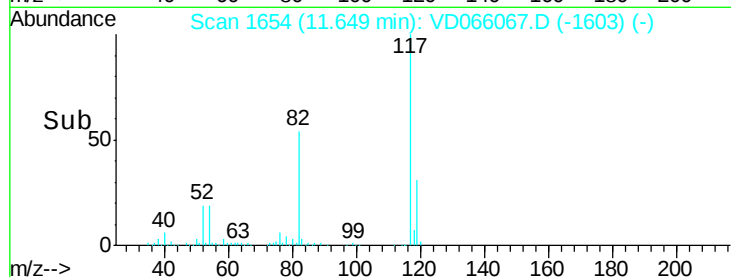
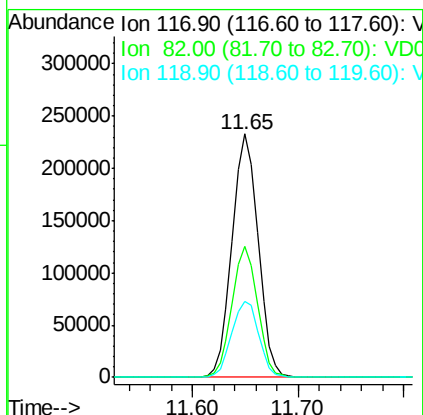
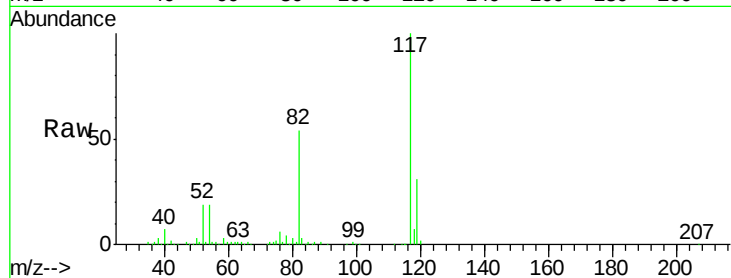




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD066067.D  
Acq: 27 Jul 2020 15:19

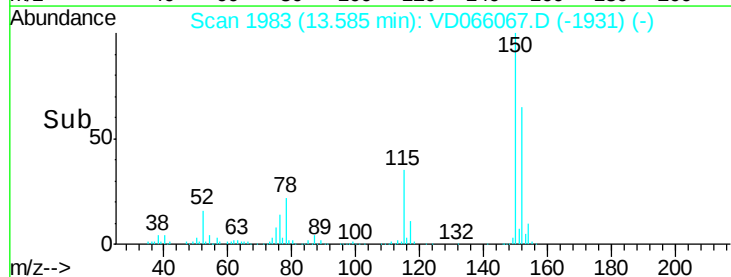
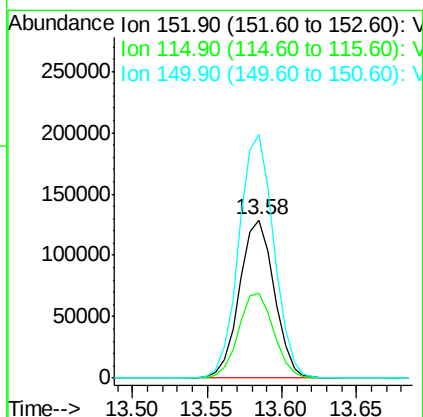
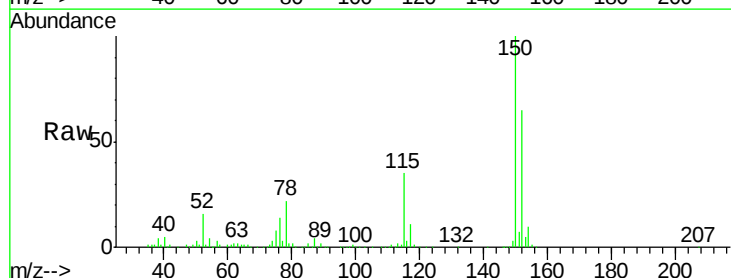
Instrument :  
MSVOA\_D  
ClientSampleId :  
20

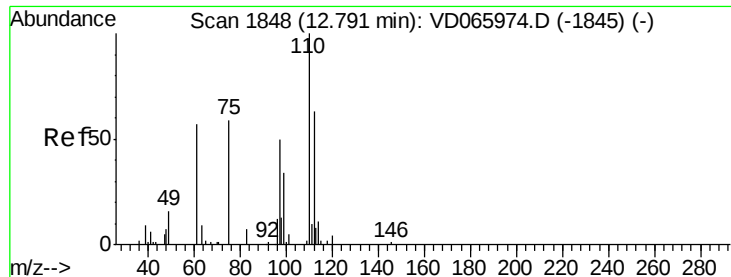
Tgt Ion:117 Resp: 397776  
Ion Ratio Lower Upper  
117 100  
82 54.0 41.1 61.7  
119 31.1 25.9 38.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VD066067.D  
Acq: 27 Jul 2020 15:19

Tgt Ion:152 Resp: 208383  
Ion Ratio Lower Upper  
152 100  
115 54.4 27.9 83.7  
150 154.6 0.0 348.2





#76

1,2,3-Trichloropropane

Concen: 56.810 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

Instrument :

MSVOA\_D

ClientSampleId :

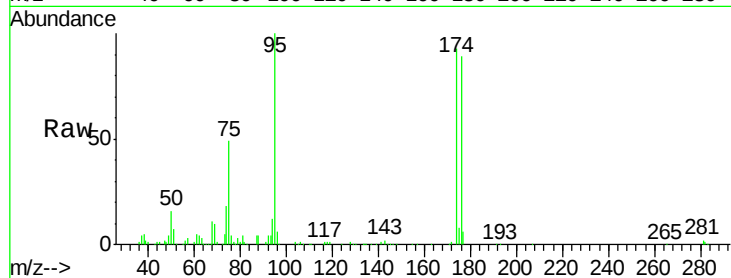
20

Tgt Ion: 75 Resp: 89136

Ion Ratio Lower Upper

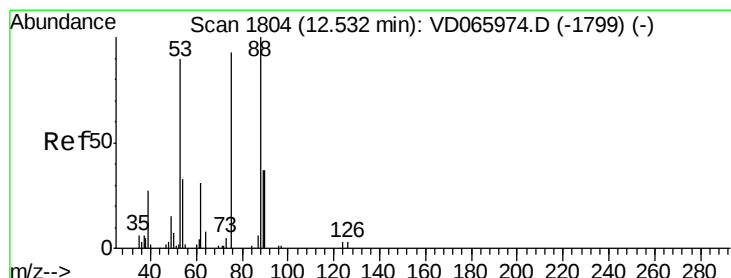
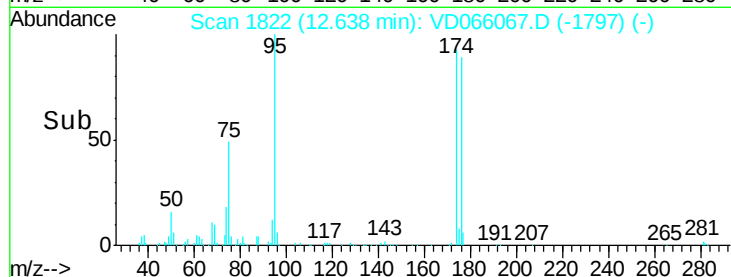
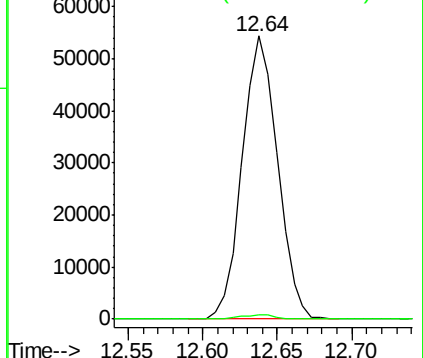
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 130.360 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD066067.D

Acq: 27 Jul 2020 15:19

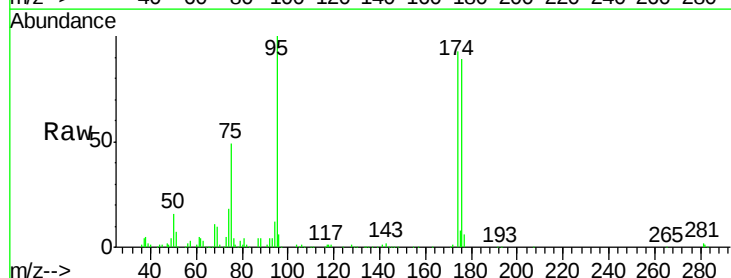
Tgt Ion: 75 Resp: 89136

Ion Ratio Lower Upper

75 100

53 0.0 76.8 115.2#

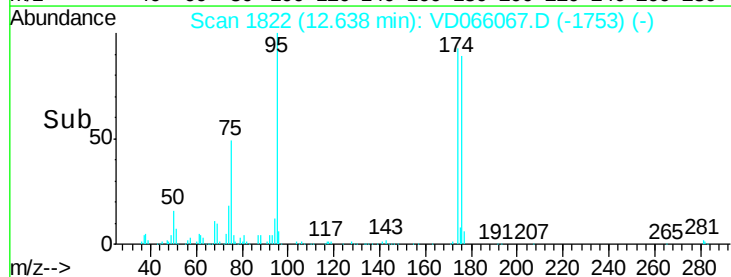
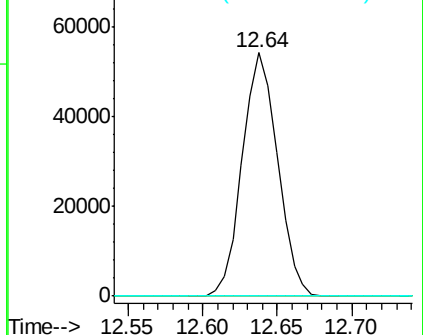
89 0.1 37.0 55.4#

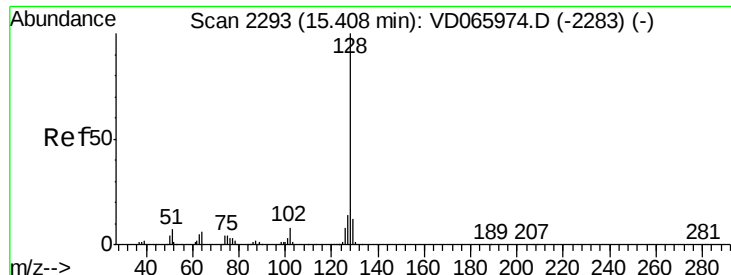


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95  
Naphthalene  
Concen: 3.786 ug/l  
RT: 15.41 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: VD066067.D  
Acq: 27 Jul 2020 15:19

Instrument :  
MSVOA\_D  
ClientSampleId :  
20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 3.6   | 10.8  | 16.2# |
| 129     | 3.6   | 8.9   | 13.3# |

