

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070819\  
 Data File : VD063046.D  
 Acq On : 8 Jul 2019 19:41  
 Operator : VA/AP  
 Sample : K3703-02  
 Misc : 3.80µl/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-EF-01-015-ABCD

Quant Time: Jul 09 05:12:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 01:50:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 729587   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 956303   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 721392   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 249572   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 307936   | 38.83 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 77.66% |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 353263   | 43.81 | ug/l   | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 87.62% |          |
| 50) Toluene-d8              | 10.40 | 98   | 681369   | 38.82 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 77.64% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 267091   | 33.47 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 66.94% |          |

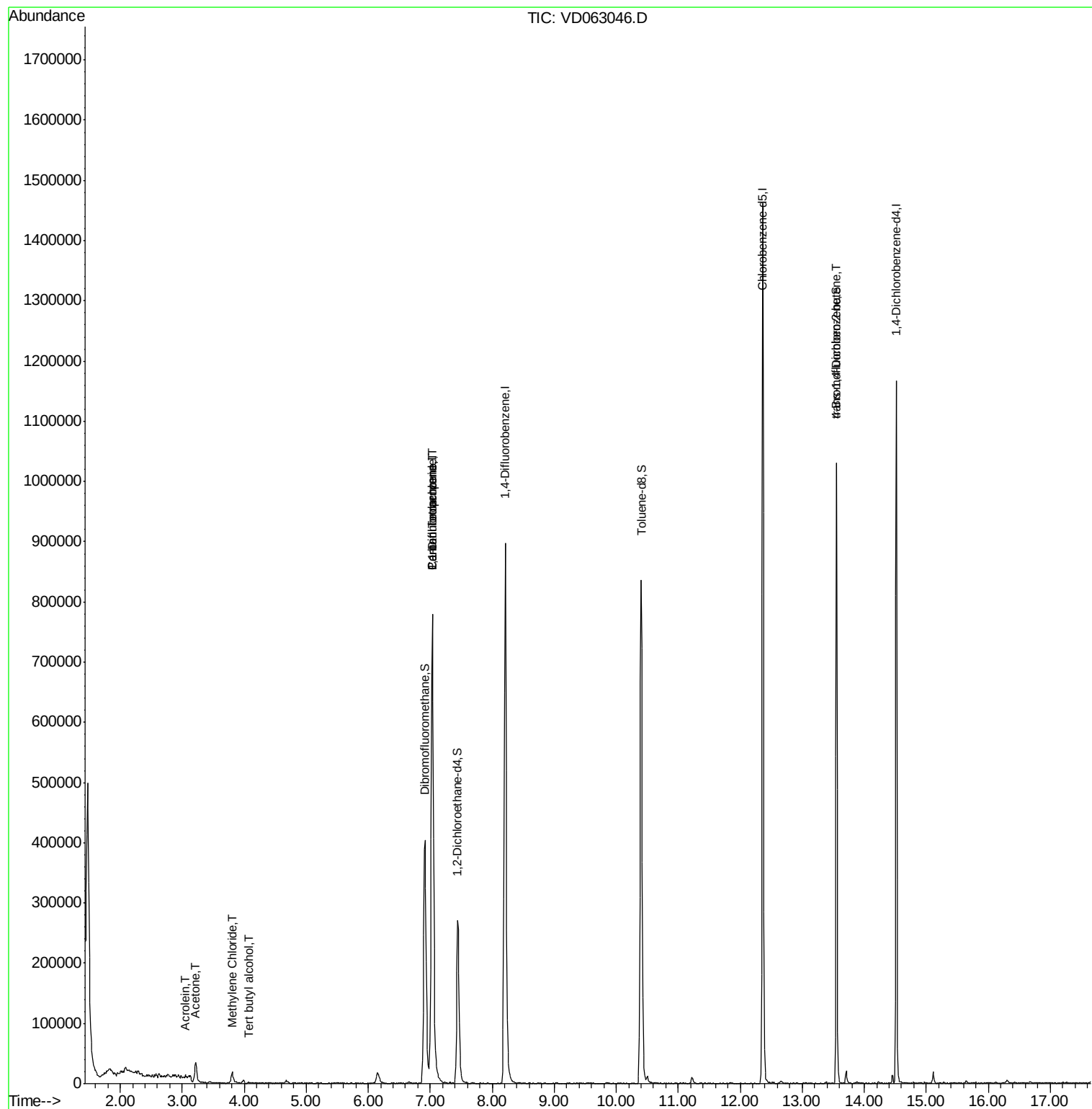
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.07  | 59   | 650      | 1.800     | ug/l # | 77     |
| 13) Acrolein                   | 3.04  | 56   | 477      | 1.294     | ug/l # | 75     |
| 16) Acetone                    | 3.22  | 43   | 62973    | 33.087    | ug/l # | 87     |
| 20) Methylene Chloride         | 3.81  | 84   | 9258     | 1.531     | ug/l # | 81     |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 53884    | 5.952     | ug/l # | 60     |
| 37) Ethyl Acetate              | 6.17  | 43   | 1176     | Below Cal | #      | 69     |
| 38) Carbon Tetrachloride       | 7.05  | 117  | 71855    | 5.278     | ug/l # | 16     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 126995   | 168.183   | ug/l # | 2      |

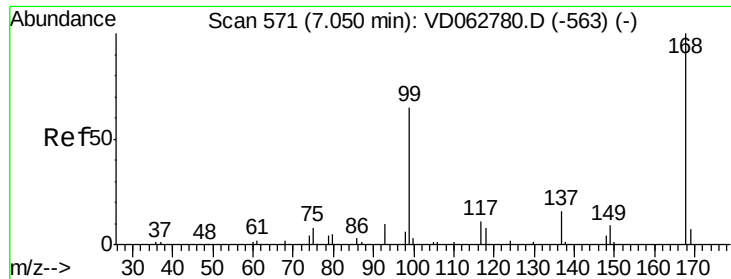
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D061919S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 01:50:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD063046.D

Acq: 8 Jul 2019 19:41

Instrument :

MSVOA\_D

ClientSampleId :

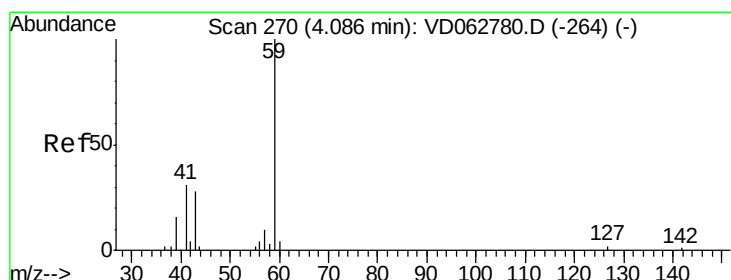
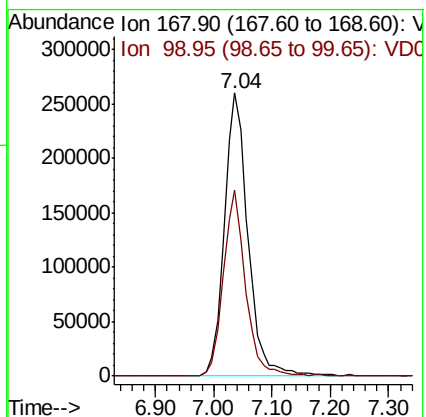
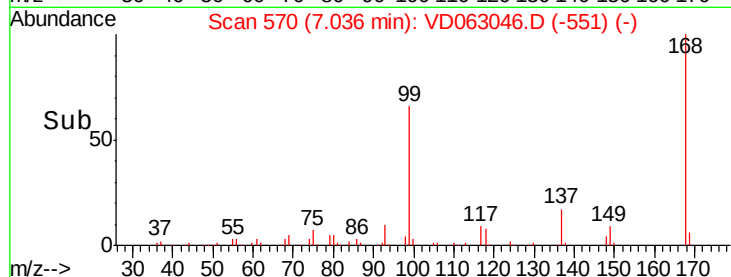
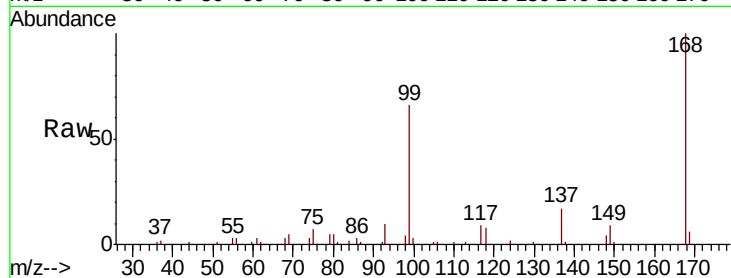
FK-EF-01-015-ABCD

Tot Ion:168 Resp: 729587

Ion Ratio Lower Upper

168 100

99 65.8 53.0 79.6



#11

Tert butyl alcohol

Concen: 1.800 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD063046.D

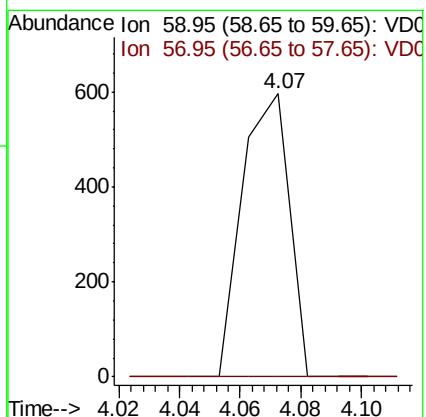
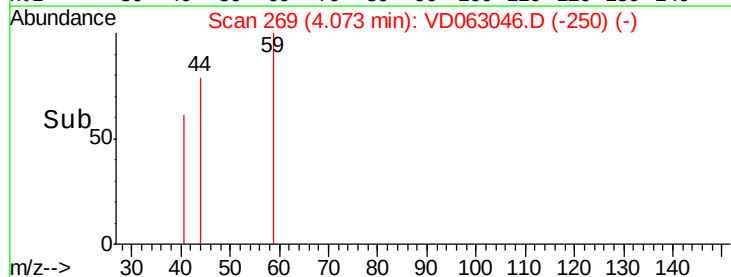
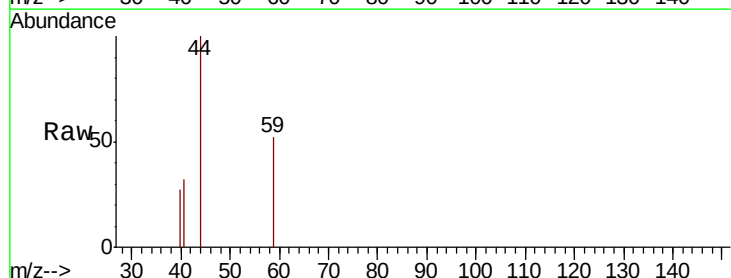
Acq: 8 Jul 2019 19:41

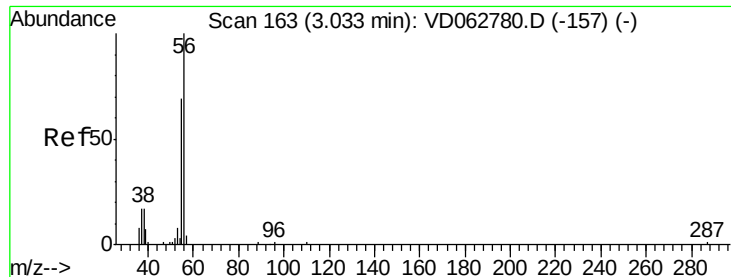
Tgt Ion: 59 Resp: 650

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#





#13

Acrolein

Concen: 1.294 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD063046.D

Acq: 8 Jul 2019 19:41

Instrument :

MSVOA\_D

ClientSampleId :

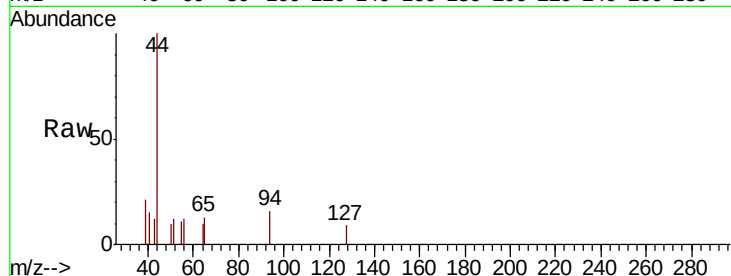
FK-EF-01-015-ABCD

Tot Ion: 56 Resp: 477

Ion Ratio Lower Upper

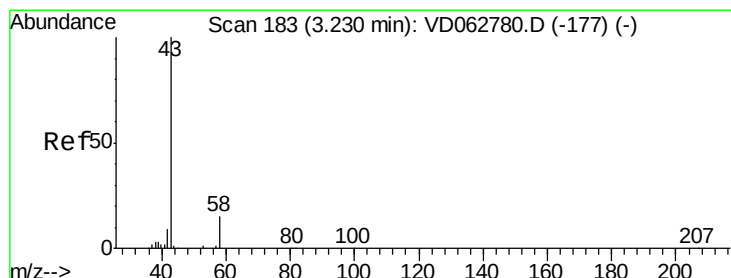
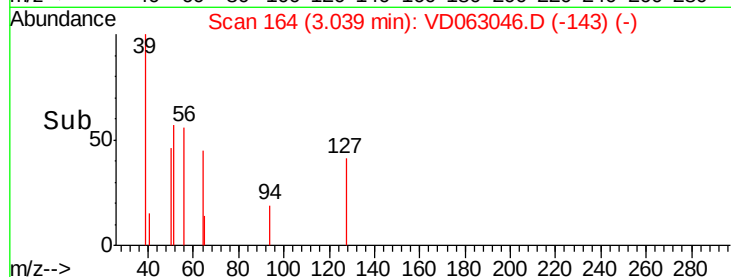
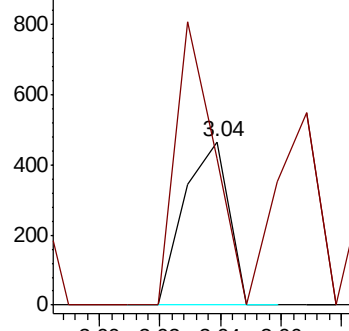
56 100

55 89.5 55.4 83.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 33.087 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD063046.D

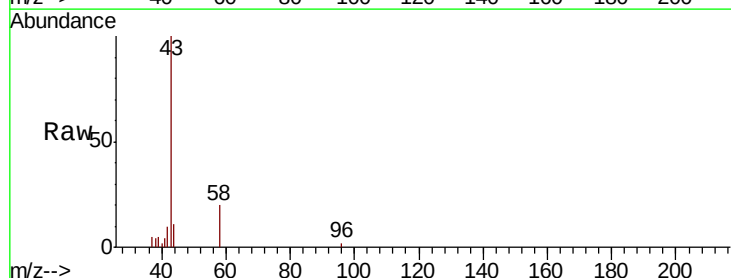
Acq: 8 Jul 2019 19:41

Tgt Ion: 43 Resp: 62973

Ion Ratio Lower Upper

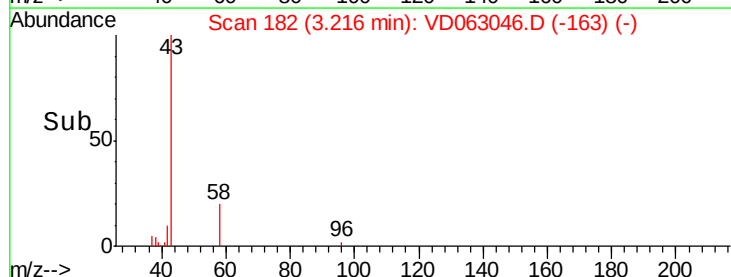
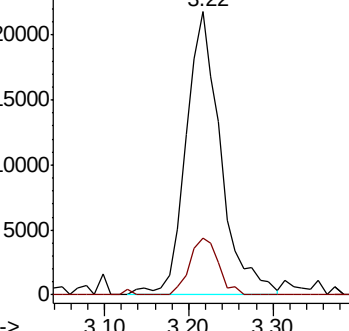
43 100

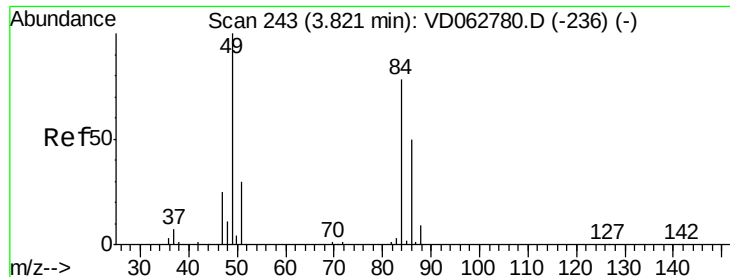
58 20.2 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

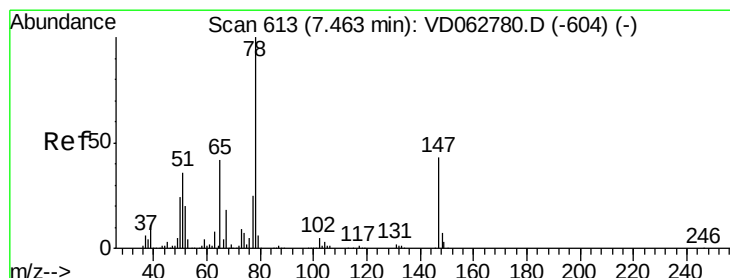
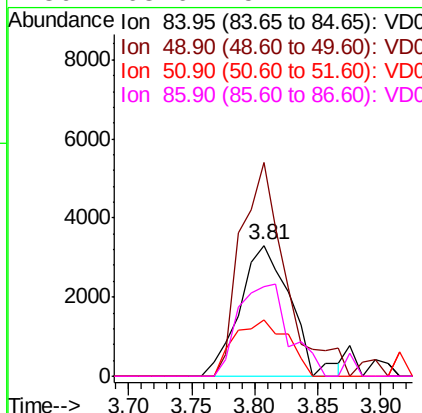
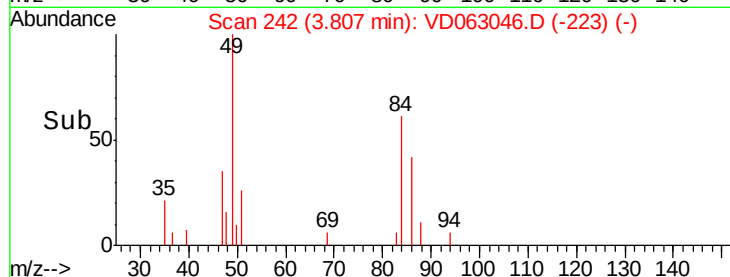
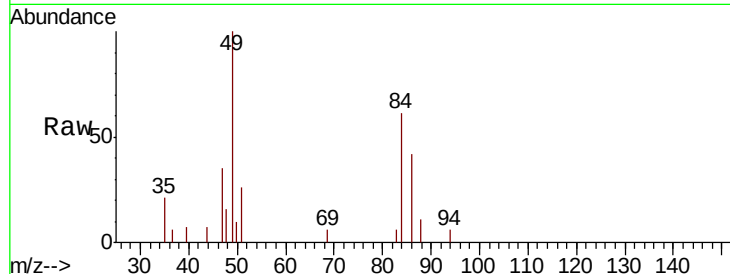




#20  
Methylene Chloride  
Concen: 1.531 ug/l  
RT: 3.81 min Scan# 242  
Delta R.T. -0.01 min  
Lab File: VD063046.D  
Acq: 8 Jul 2019 19:41

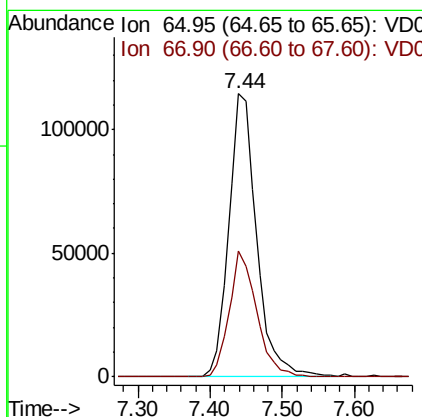
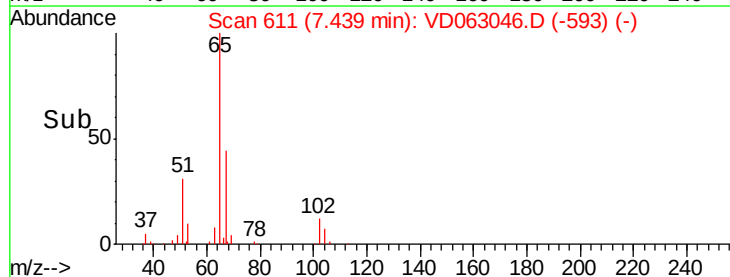
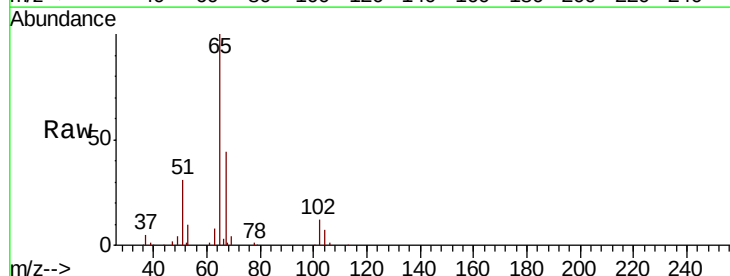
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-EF-01-015-ABCD

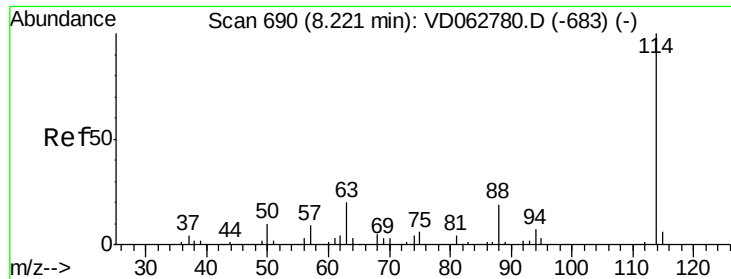
Tot Ion: 84 Resp: 9258  
Ion Ratio Lower Upper  
84 100  
49 163.4 102.9 154.3#  
51 42.9 31.2 46.8  
86 68.6 51.4 77.2



#33  
1,2-Dichloroethane-d4  
Concen: 38.829 ug/l  
RT: 7.44 min Scan# 611  
Delta R.T. -0.02 min  
Lab File: VD063046.D  
Acq: 8 Jul 2019 19:41

Tgt Ion: 65 Resp: 307936  
Ion Ratio Lower Upper  
65 100  
67 44.4 0.0 87.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD063046.D

Acq: 8 Jul 2019 19:41

Instrument :

MSVOA\_D

ClientSampleId :

FK-EF-01-015-ABCD

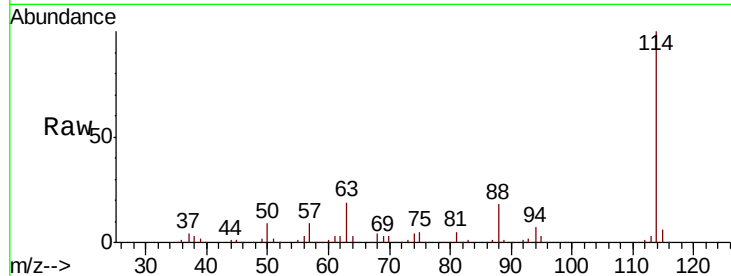
Tot Ion:114 Resp: 956303

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.0

88 18.2 0.0 38.8



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

8.21

400000

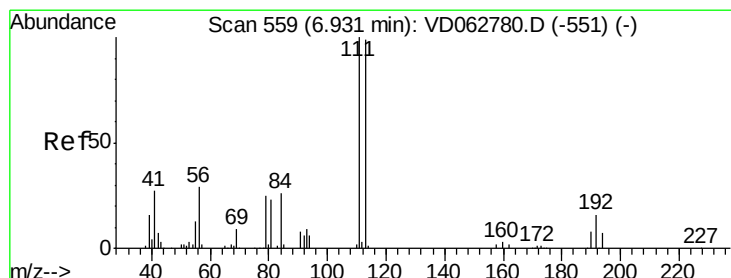
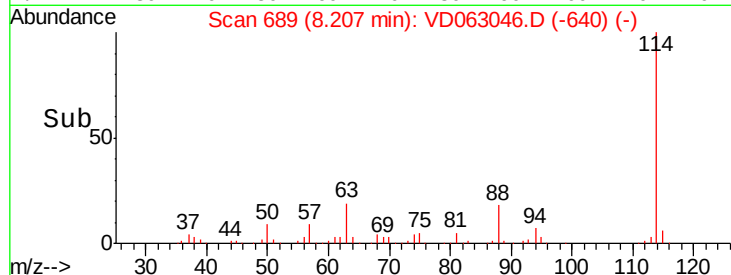
300000

200000

100000

0

Time-->



#35

Dibromofluoromethane

Concen: 43.810 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD063046.D

Acq: 8 Jul 2019 19:41

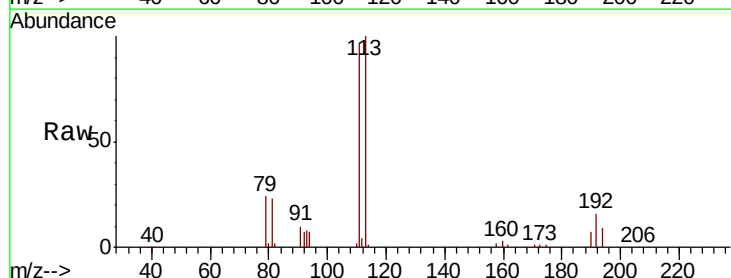
Tgt Ion:113 Resp: 353263

Ion Ratio Lower Upper

113 100

111 96.5 81.2 121.8

192 16.3 12.9 19.3



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

6.91

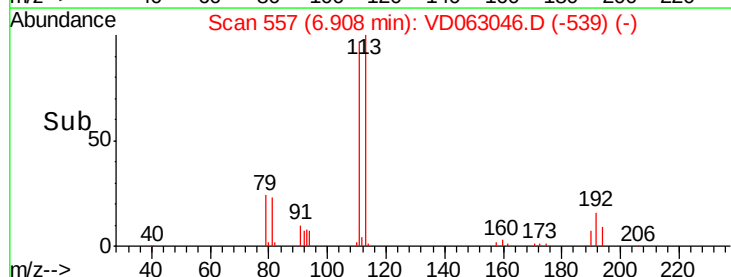
150000

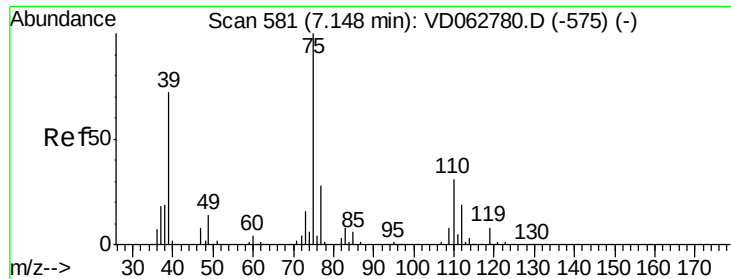
100000

50000

0

Time-->





#36

1,1-Dichloropropene

Concen: 5.952 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD063046.D

Acq: 8 Jul 2019 19:41

Instrument :

MSVOA\_D

ClientSampleId :

FK-EF-01-015-ABCD

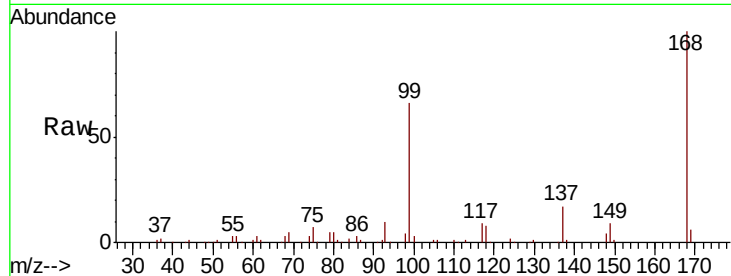
Tot Ion: 75 Resp: 53884

Ion Ratio Lower Upper

75 100

110 15.0 15.0 45.1#

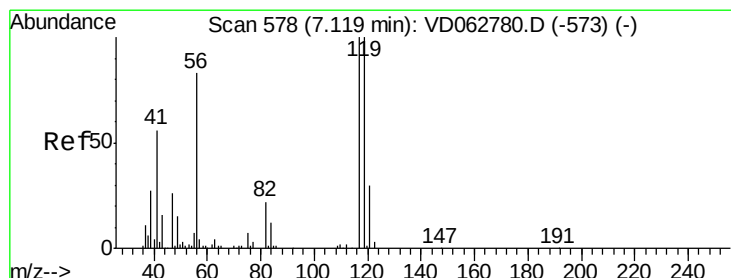
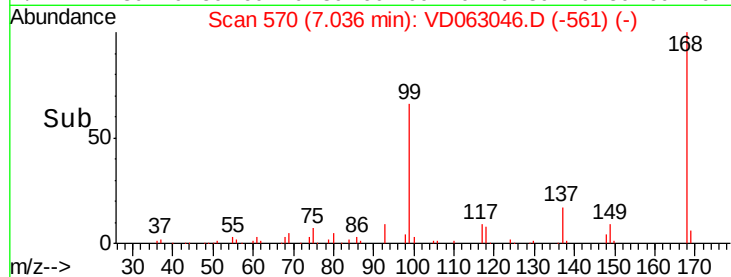
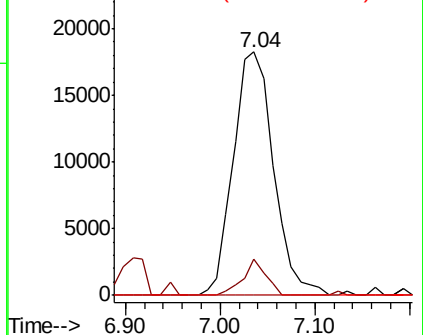
77 0.0 22.2 33.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#38

Carbon Tetrachloride

Concen: 5.278 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD063046.D

Acq: 8 Jul 2019 19:41

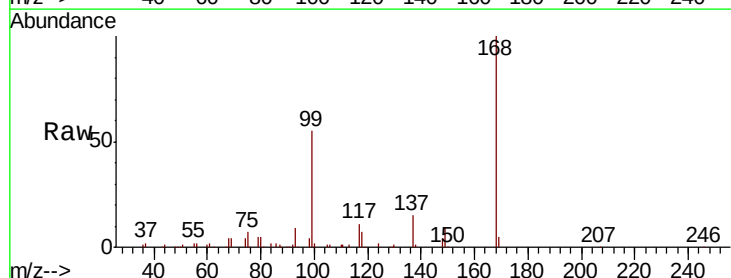
Tgt Ion: 117 Resp: 71855

Ion Ratio Lower Upper

117 100

119 4.6 75.4 113.2#

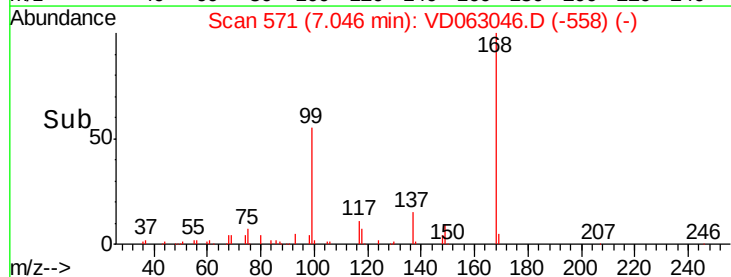
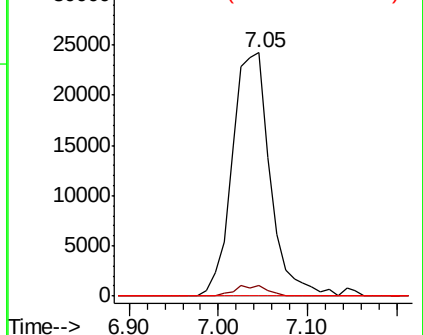
121 0.0 22.3 33.5#

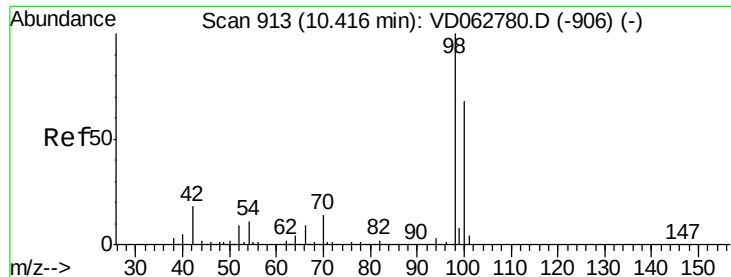


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC

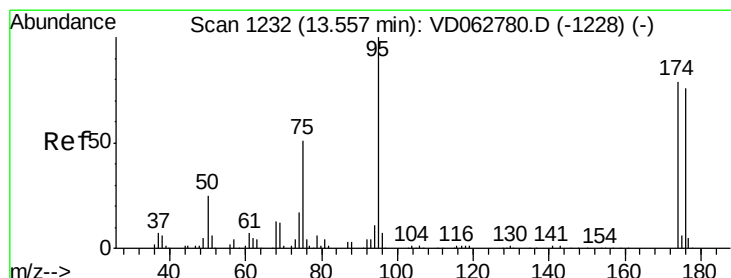
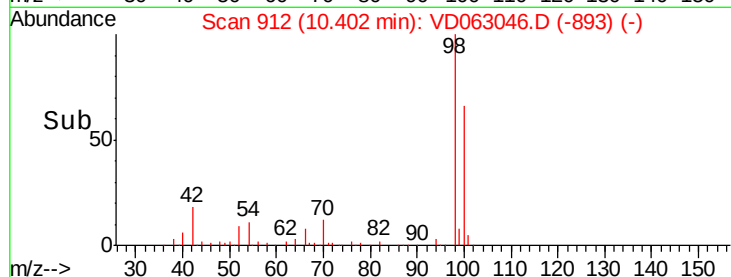
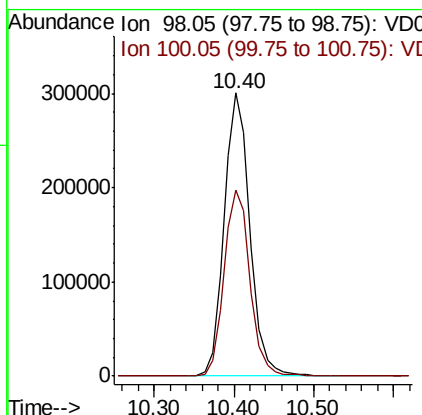
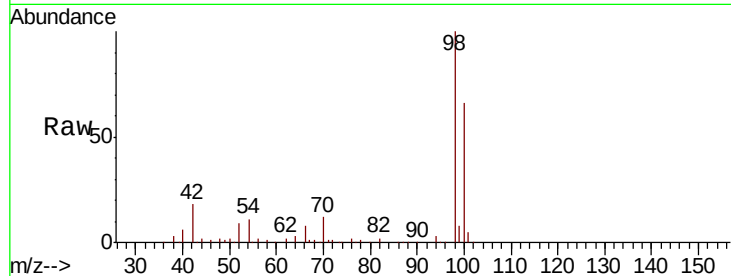




#50  
Toluene-d8  
Concen: 38.825 ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. -0.01 min  
Lab File: VD063046.D  
Acq: 8 Jul 2019 19:41

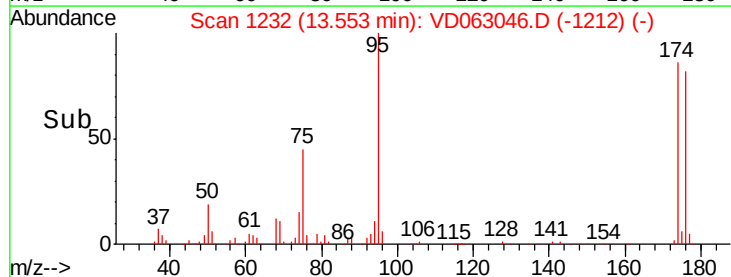
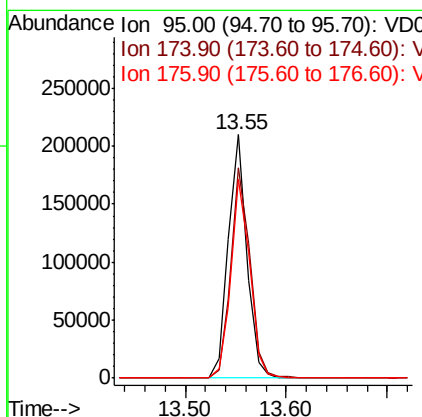
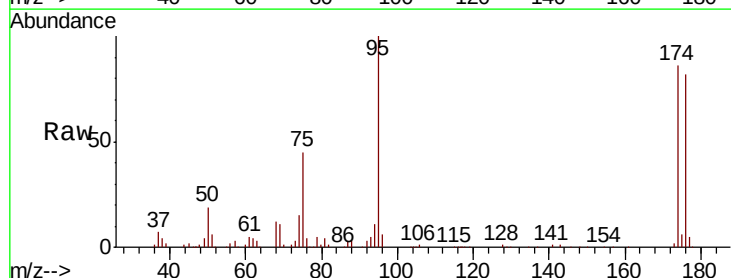
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-EF-01-015-ABCD

Tot Ion: 98 Resp: 681369  
Ion Ratio Lower Upper  
98 100  
100 65.9 54.7 82.1

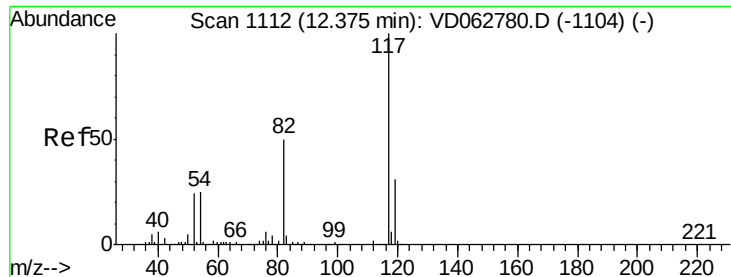


#62  
4-Bromofluorobenzene  
Concen: 33.470 ug/l  
RT: 13.55 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: VD063046.D  
Acq: 8 Jul 2019 19:41

Tgt Ion: 95 Resp: 267091  
Ion Ratio Lower Upper  
95 100  
174 86.4 0.0 158.0  
176 81.7 0.0 151.6



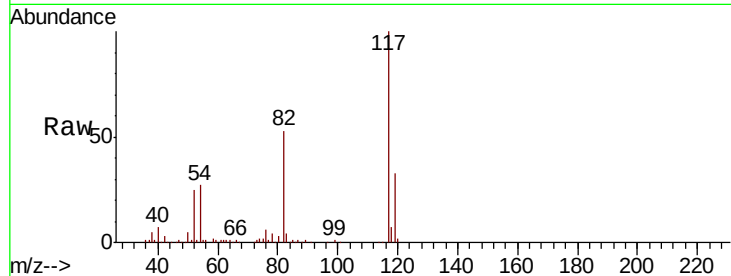




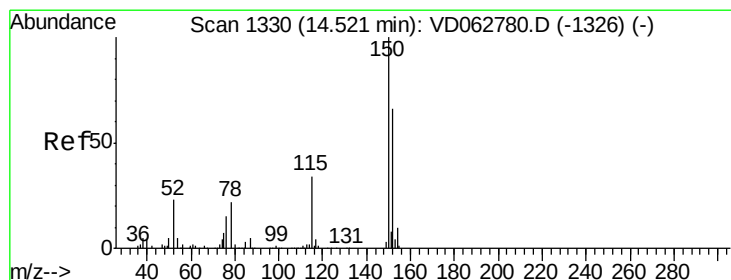
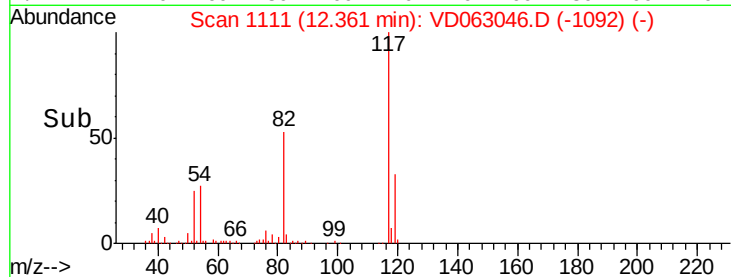
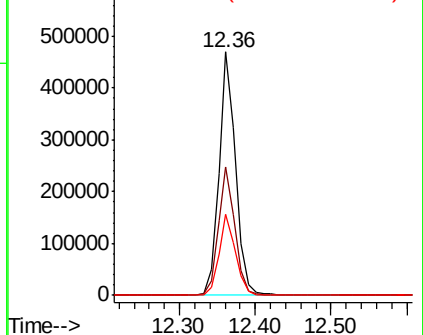
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. -0.01 min  
Lab File: VD063046.D  
Acq: 8 Jul 2019 19:41

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-EF-01-015-ABCD

Tot Ion:117 Resp: 721392  
Ion Ratio Lower Upper  
117 100  
82 52.8 40.4 60.6  
119 33.2 25.2 37.8

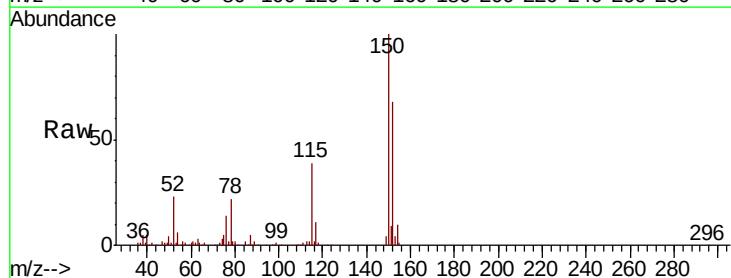


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

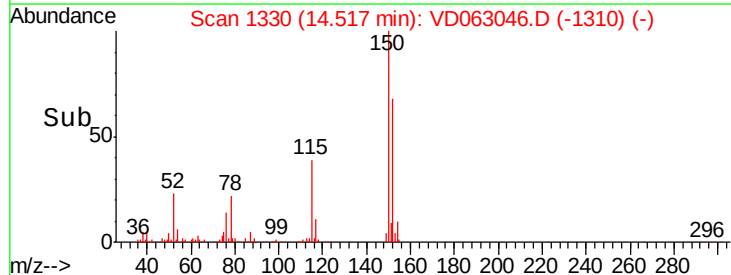
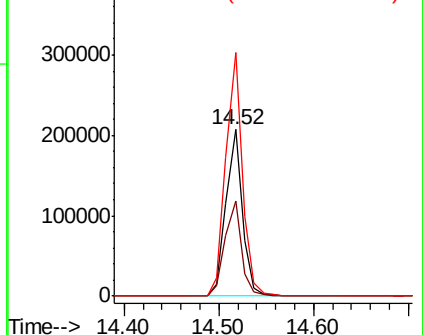


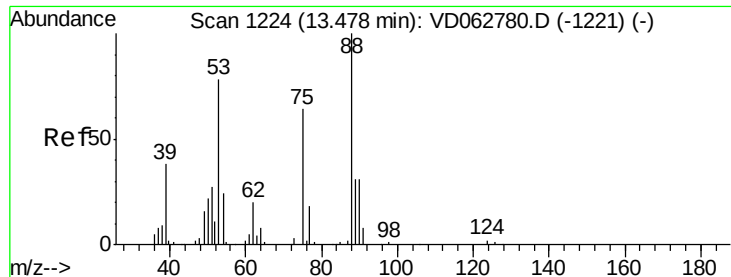
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VD063046.D  
Acq: 8 Jul 2019 19:41

Tgt Ion:152 Resp: 249572  
Ion Ratio Lower Upper  
152 100  
115 57.1 29.2 87.6  
150 146.2 0.0 305.8



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





#81

trans-1,4-Dichloro-2-butene

Concen: 168.183 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063046.D

Acq: 8 Jul 2019 19:41

Instrument :

MSVOA\_D

ClientSampleId :

FK-EF-01-015-ABCD

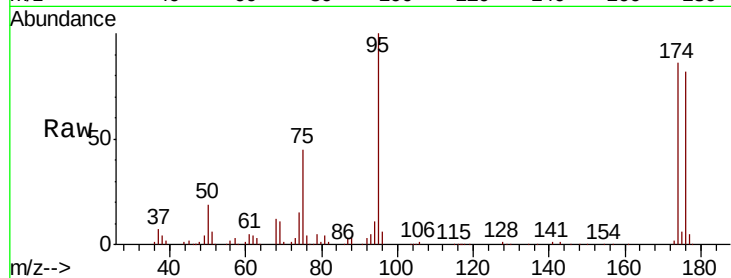
Tot Ion: 75 Resp: 126995

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#



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

