

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\  
 Data File : VD061375.D  
 Acq On : 28 Mar 2019 3:38  
 Operator : VA/AP  
 Sample : K2097-03  
 Misc : 2.36g/5ml/MSVOA D/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CS-22

Quant Time: Mar 28 05:44:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 02:13:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 380932   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 525041   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 208107   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.50 | 152  | 26823    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.43  | 65   | 139156   | 42.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.52%  |          |
| 35) Dibromofluoromethane    | 6.89  | 113  | 239802   | 59.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.54% |          |
| 50) Toluene-d8              | 10.38 | 98   | 278966   | 28.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 57.98%  |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 38894    | 10.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 21.08%  |          |

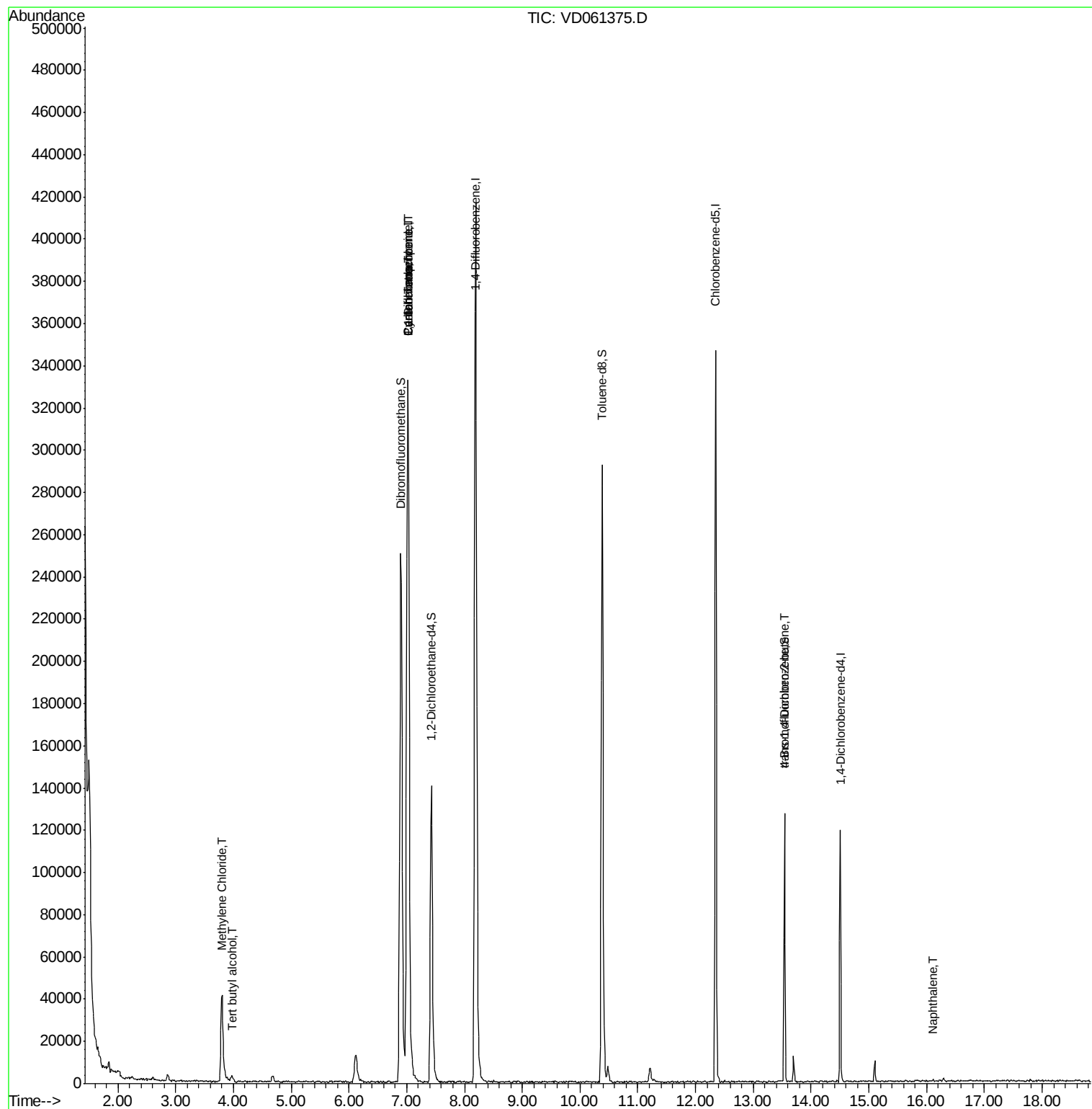
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 3.97  | 59   | 3512     | 17.330  | ug/l # | 76     |
| 20) Methylene Chloride         | 3.80  | 84   | 33206    | 5.372   | ug/l   | 92     |
| 31) Cyclohexane                | 7.01  | 56   | 6186     | 1.104   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.02  | 75   | 26741    | 5.836   | ug/l # | 43     |
| 38) Carbon Tetrachloride       | 7.02  | 117  | 35269    | 6.760   | ug/l # | 14     |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 14887    | 126.013 | ug/l # | 18     |
| 95) Naphthalene                | 16.11 | 128  | 850      | 1.592   | ug/l # | 70     |

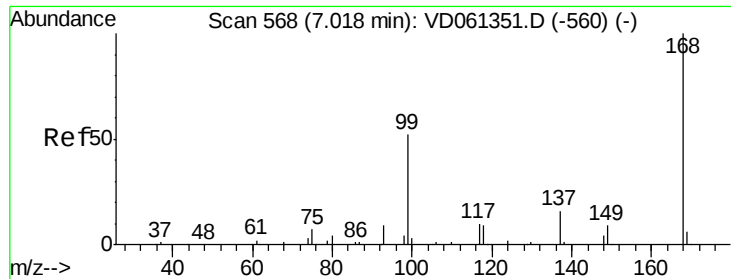
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Mar 28 02:13:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

Instrument :

MSVOA\_D

ClientSampleId :

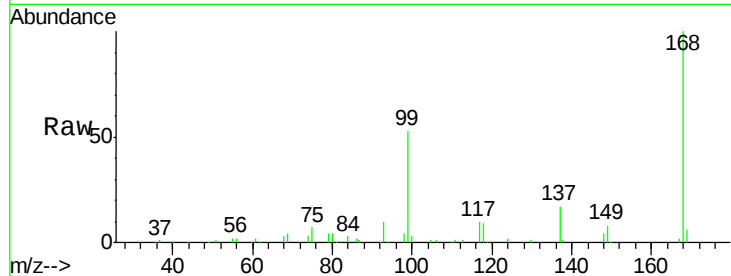
CS-22

Tot Ion:168 Resp: 380932

Ion Ratio Lower Upper

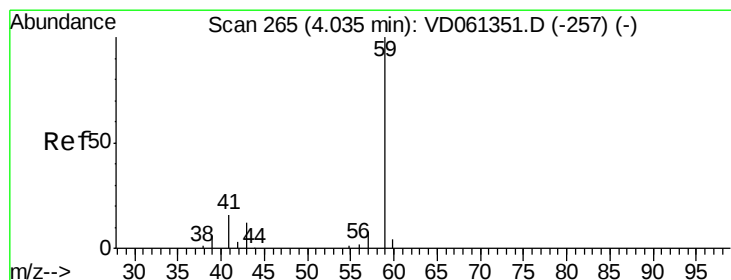
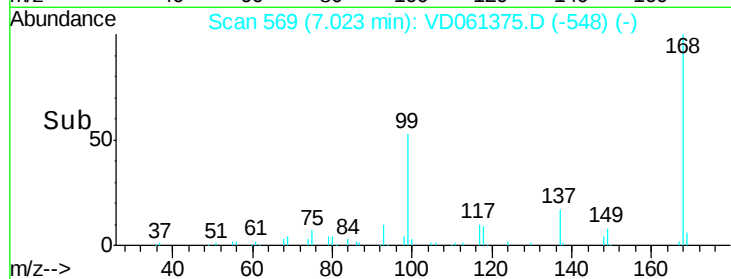
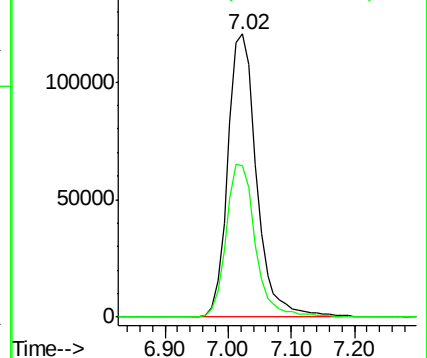
168 100

99 53.3 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 17.330 ug/l

RT: 3.97 min Scan# 259

Delta R.T. -0.06 min

Lab File: VD061375.D

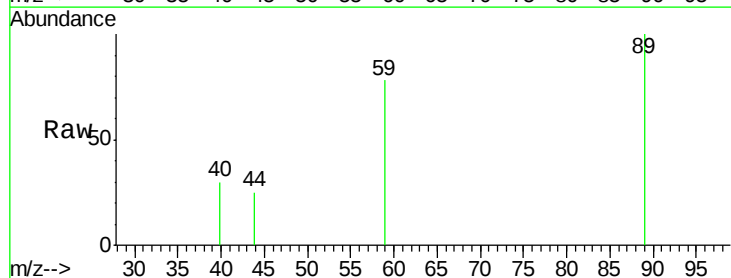
Acq: 28 Mar 2019 3:38

Tgt Ion: 59 Resp: 3512

Ion Ratio Lower Upper

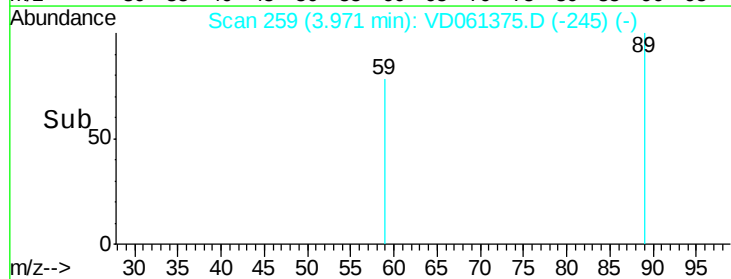
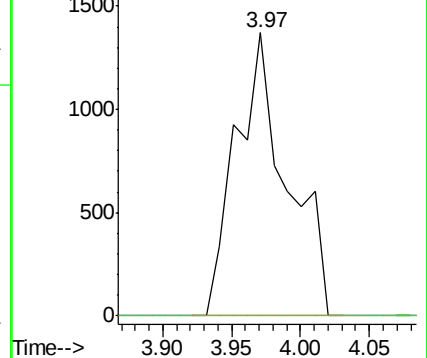
59 100

57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#20

Methylene Chloride

Concen: 5.372 ug/l

RT: 3.80 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

Instrument :

MSVOA\_D

ClientSampleId :

CS-22

Tot Ion: 84 Resp: 33206

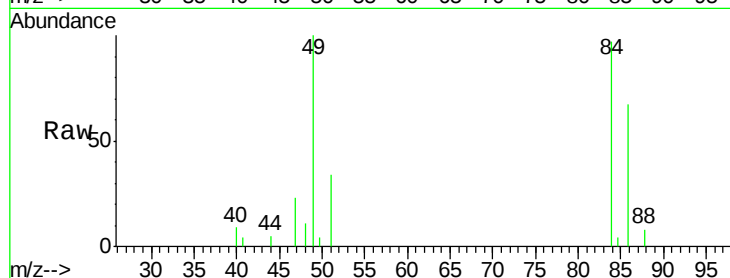
Ion Ratio Lower Upper

84 100

49 103.0 91.8 137.8

51 34.5 29.8 44.8

86 68.6 51.8 77.6

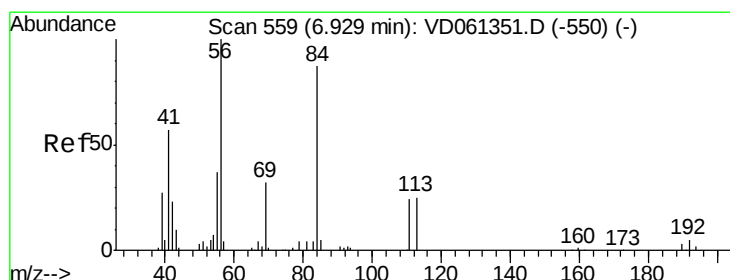
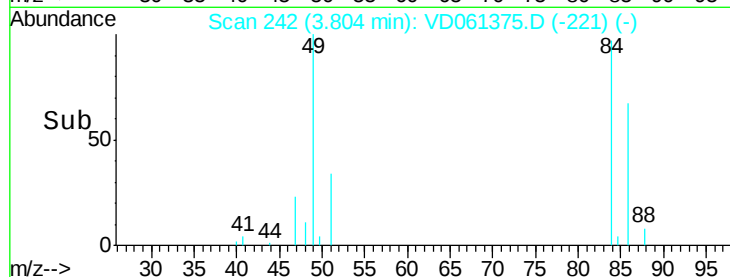
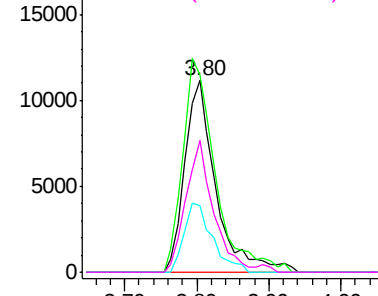


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#31

Cyclohexane

Concen: 1.104 ug/l

RT: 7.01 min Scan# 568

Delta R.T. 0.08 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

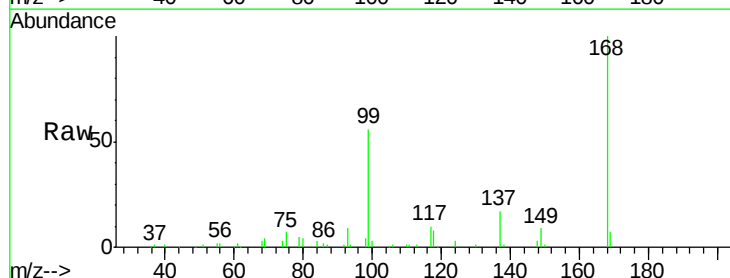
Tgt Ion: 56 Resp: 6186

Ion Ratio Lower Upper

56 100

69 202.9 25.7 38.5#

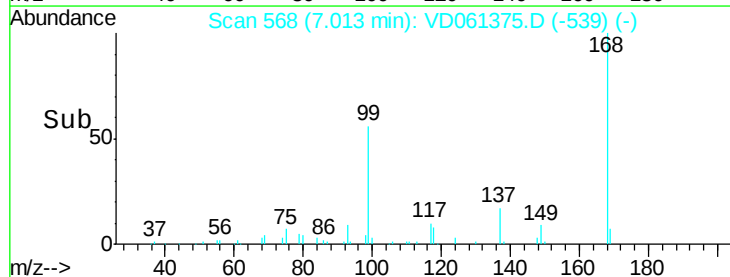
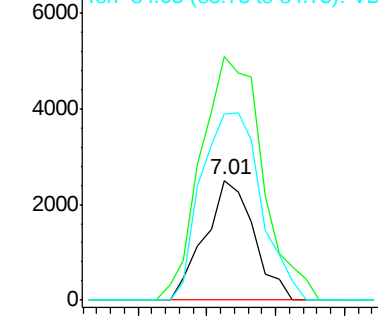
84 155.5 70.6 105.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

Instrument :

MSVOA\_D

ClientSampleId :

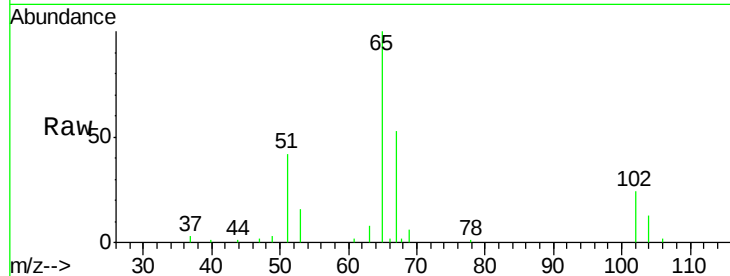
CS-22

Tot Ion: 65 Resp: 139156

Ion Ratio Lower Upper

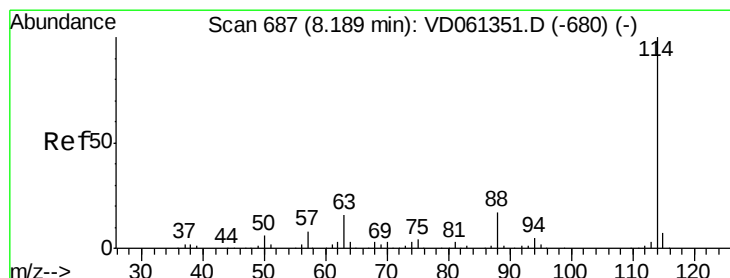
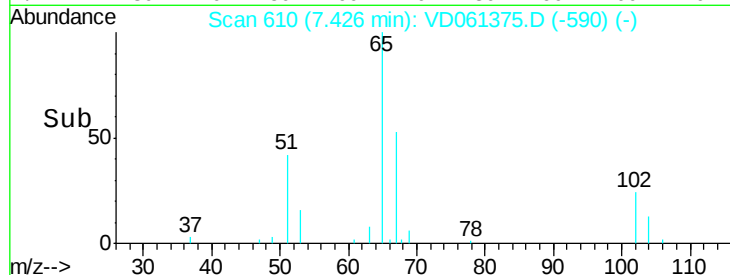
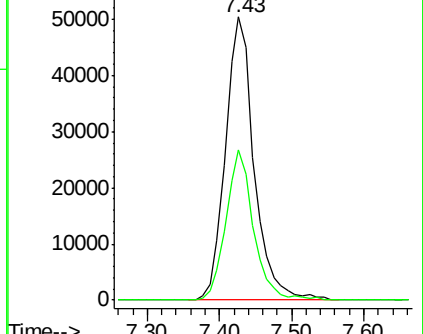
65 100

67 53.0 0.0 99.8



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: 8.19 min Scan# 688

Delta R.T. 0.00 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

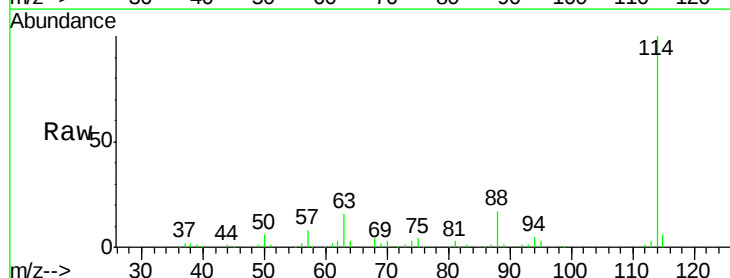
Tgt Ion: 114 Resp: 525041

Ion Ratio Lower Upper

114 100

63 15.8 0.0 31.6

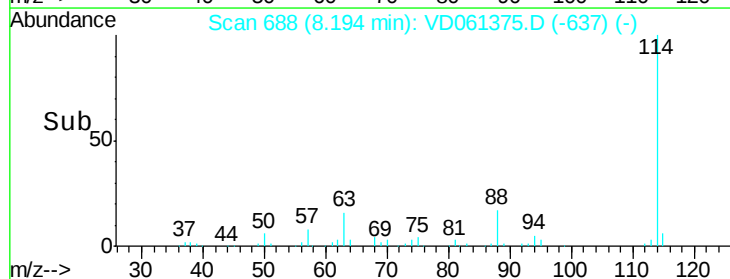
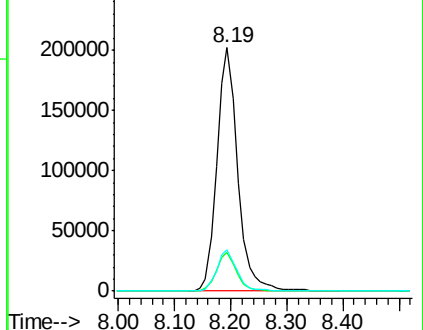
88 16.9 0.0 33.4



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

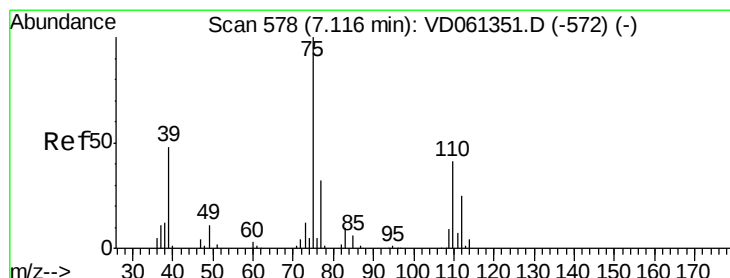
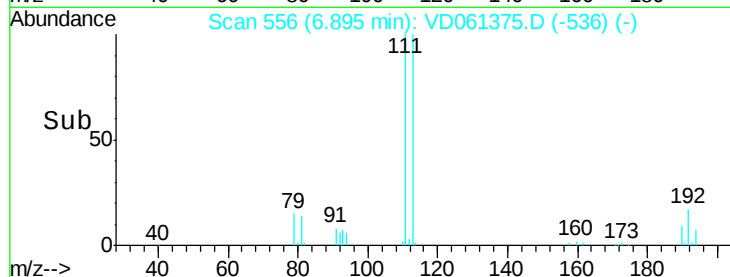
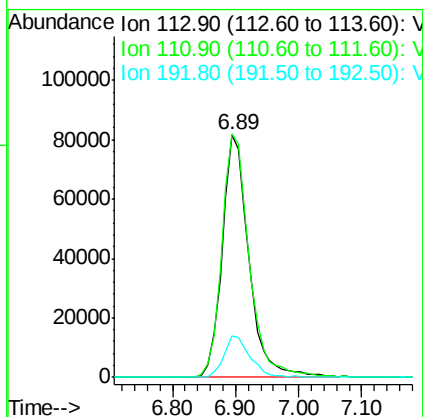
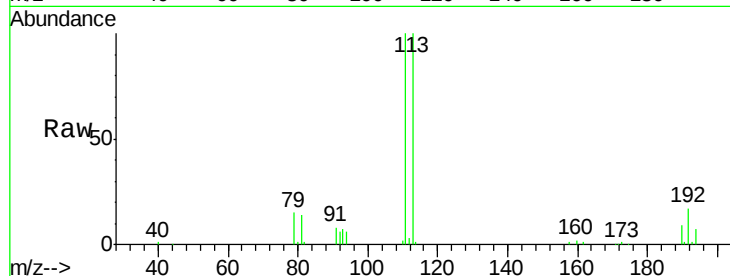




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.89 min Scan# 556  
 Delta R.T. -0.01 min  
 Lab File: VD061375.D  
 Acq: 28 Mar 2019 3:38

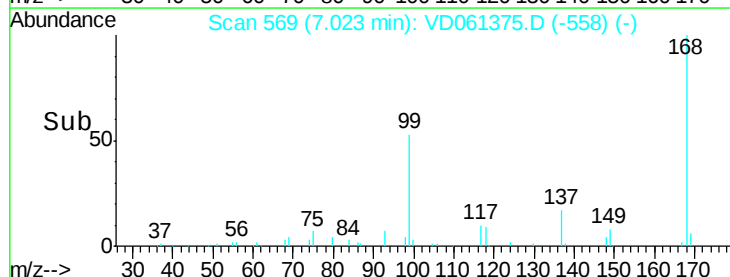
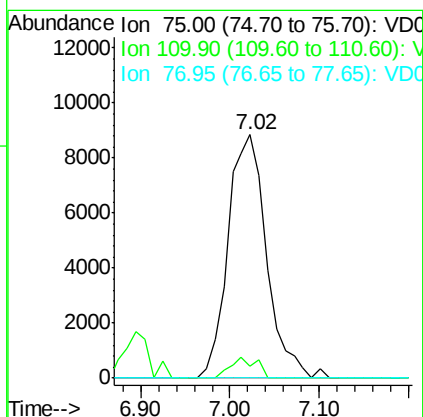
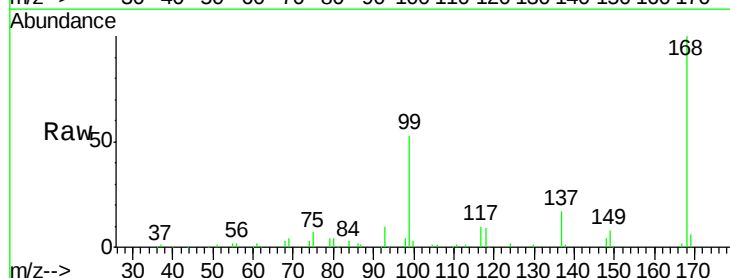
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CS-22

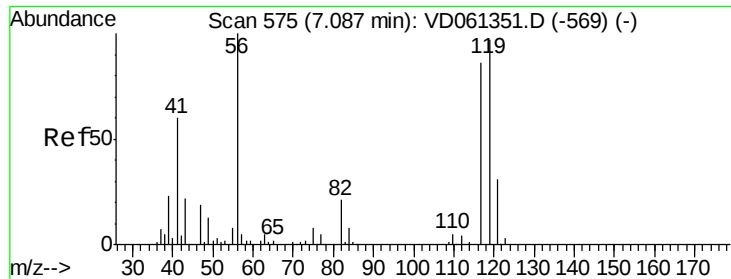
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.4 | 81.0  | 121.6 |
| 192     | 17.2  | 14.4  | 21.6  |



#36  
 1,1-Dichloropropene  
 Concen: 5.836 ug/l  
 RT: 7.02 min Scan# 569  
 Delta R.T. -0.09 min  
 Lab File: VD061375.D  
 Acq: 28 Mar 2019 3:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 4.7   | 20.4  | 61.3# |
| 77      | 0.0   | 24.9  | 37.3# |

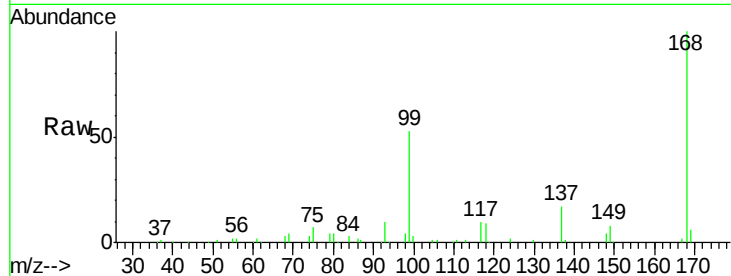




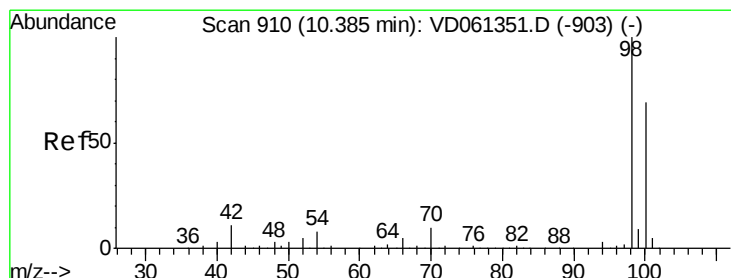
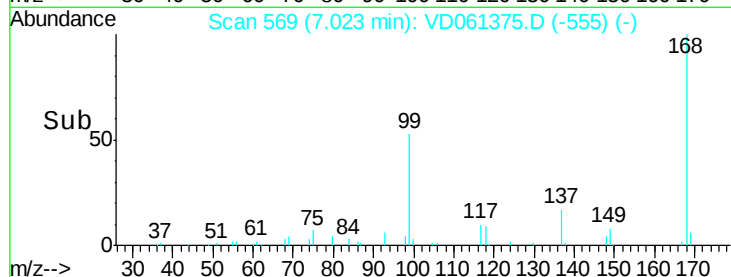
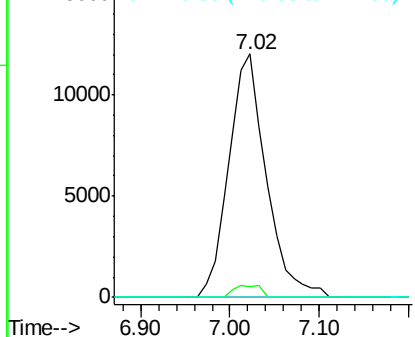
#38  
Carbon Tetrachloride  
Concen: 6.760 ug/l  
RT: 7.02 min Scan# 569  
Delta R.T. -0.06 min  
Lab File: VD061375.D  
Acq: 28 Mar 2019 3:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
CS-22

Tot Ion:117 Resp: 35269  
Ion Ratio Lower Upper  
117 100  
119 4.3 80.1 120.1#  
121 0.0 25.6 38.4#

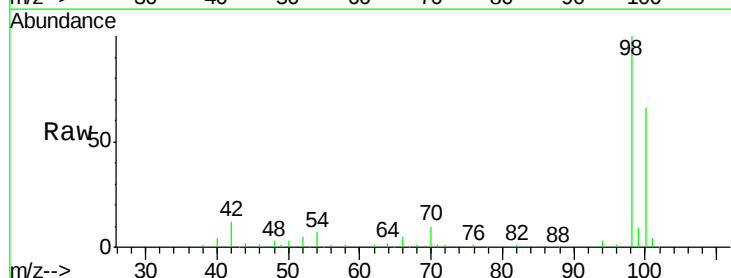


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

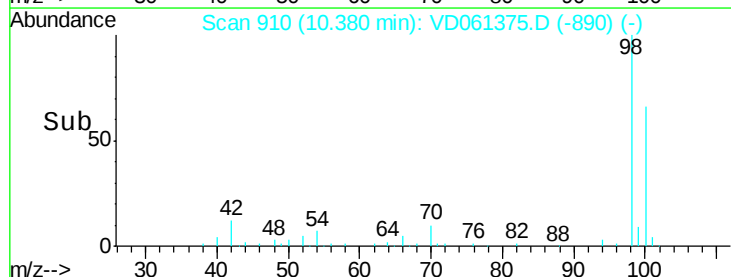
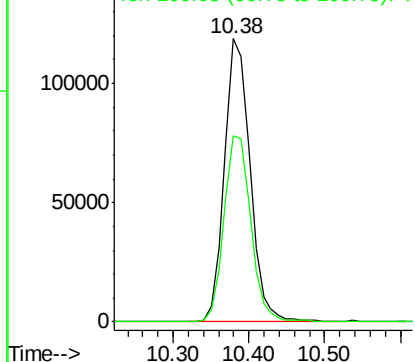


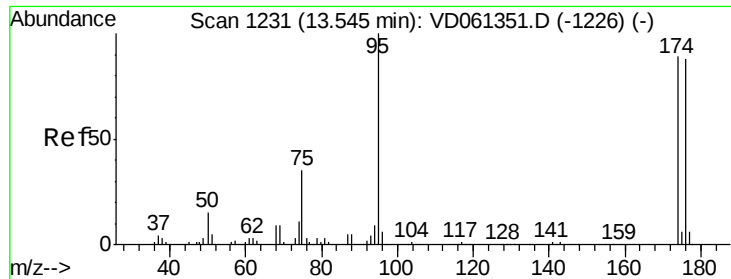
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.38 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: VD061375.D  
Acq: 28 Mar 2019 3:38

Tgt Ion: 98 Resp: 278966  
Ion Ratio Lower Upper  
98 100  
100 65.7 56.2 84.2



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

Instrument :

MSVOA\_D

ClientSampleId :

CS-22

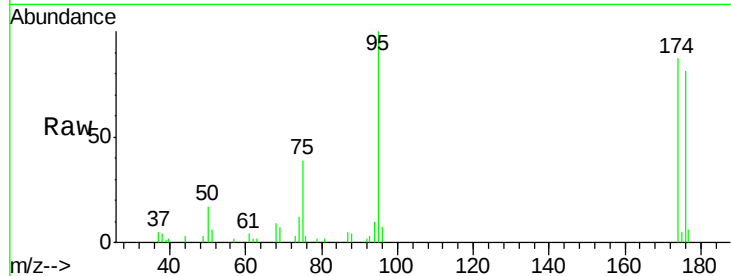
Tot Ion: 95 Resp: 38894

Ion Ratio Lower Upper

95 100

174 87.4 0.0 178.0

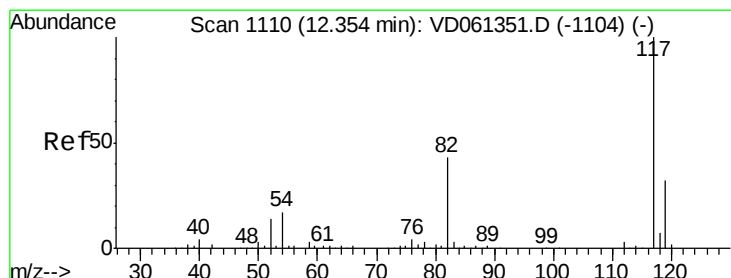
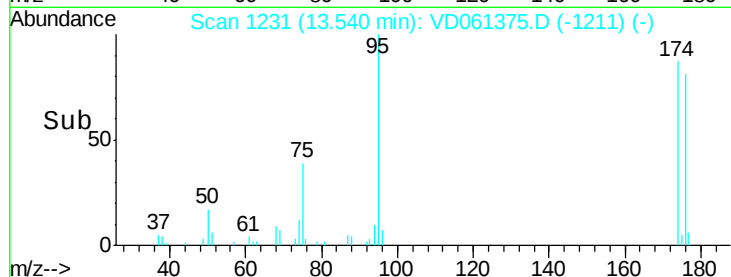
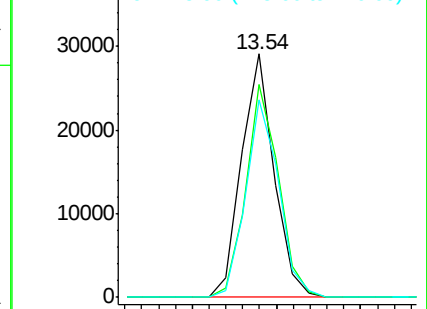
176 81.3 0.0 175.0



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: 12.35 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

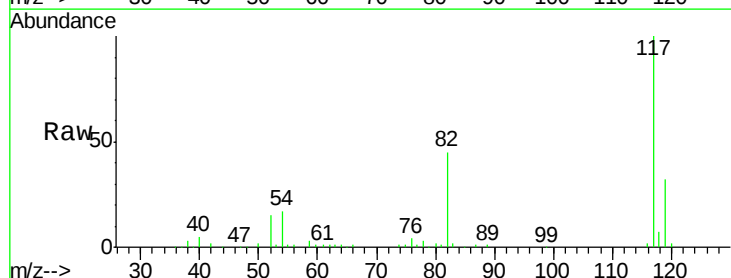
Tgt Ion: 117 Resp: 208107

Ion Ratio Lower Upper

117 100

82 44.8 34.4 51.6

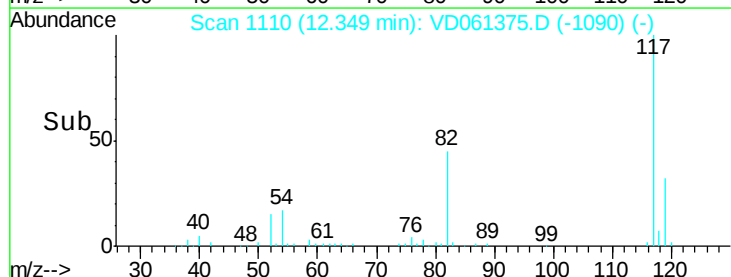
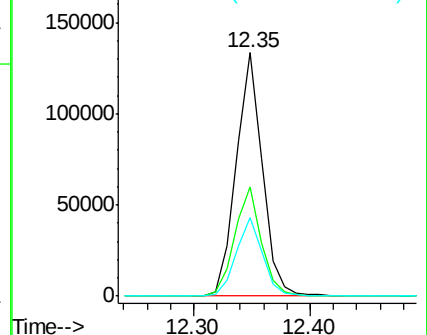
119 32.3 25.8 38.6

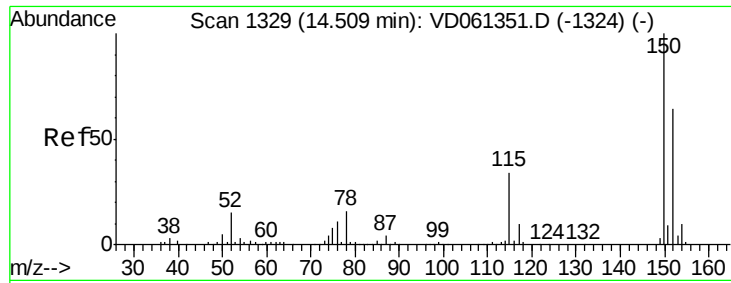


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.50 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

Instrument :

MSVOA\_D

ClientSampleId :

CS-22

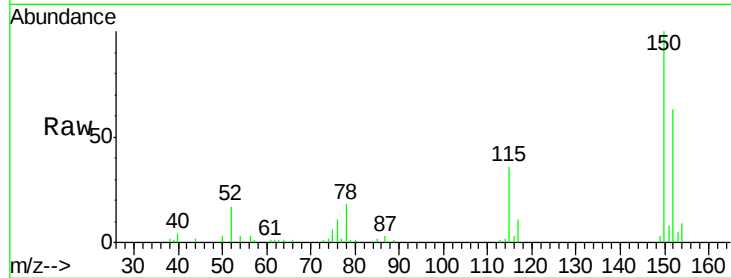
Tot Ion:152 Resp: 26823

Ion Ratio Lower Upper

152 100

115 57.6 26.9 80.6

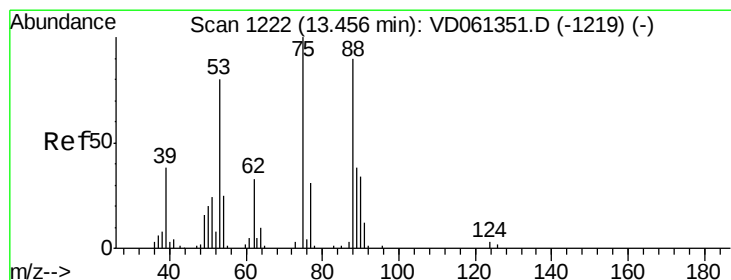
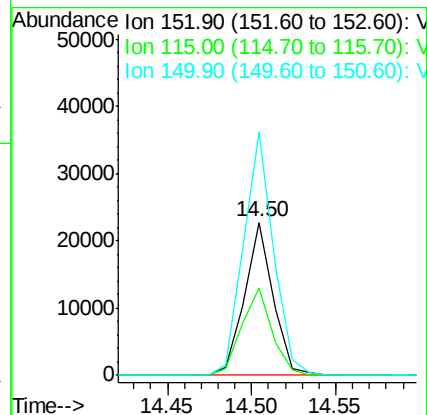
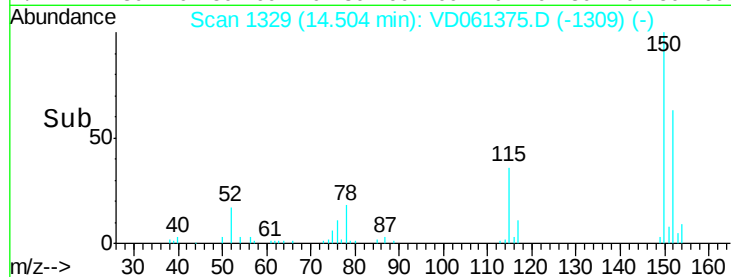
150 159.4 0.0 318.0



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: 126.013 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

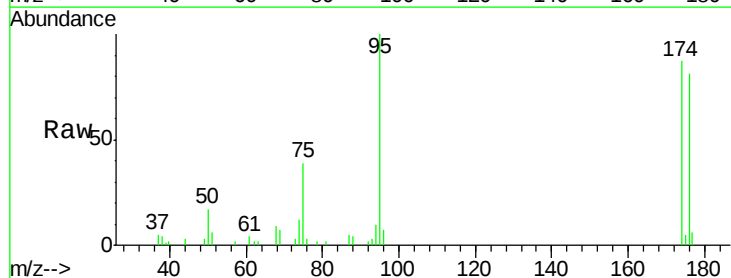
Tgt Ion: 75 Resp: 14887

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

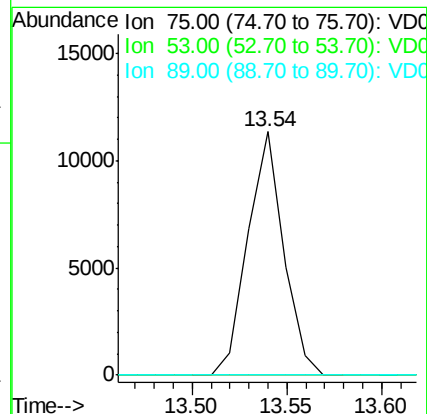
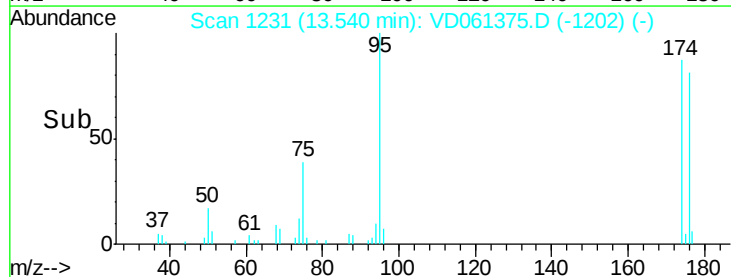
89 0.0 30.5 45.7#

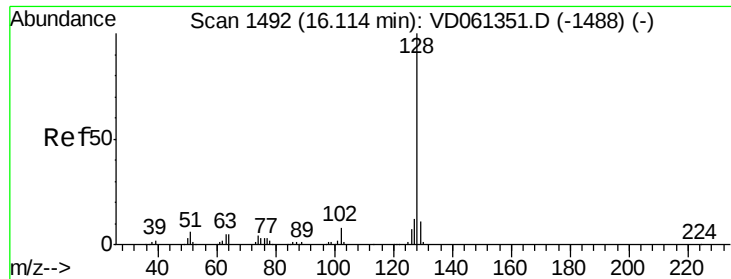


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.592 ug/l

RT: 16.11 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VD061375.D

Acq: 28 Mar 2019 3:38

Instrument :

MSVOA\_D

ClientSampleId :

CS-22

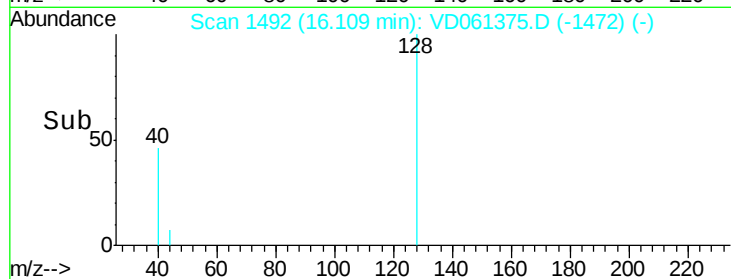
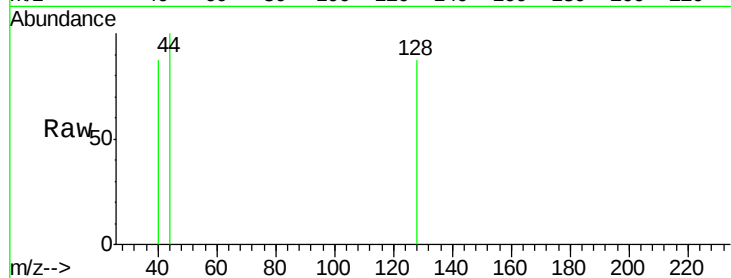
Tot Ion:128 Resp: 850

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 8.9 13.3#



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

