

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102518\  
 Data File : VD060208.D  
 Acq On : 25 Oct 2018 21:24  
 Operator : JC/SY  
 Sample : J5204-11  
 Misc : 6.41g/5ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-102518-B

Quant Time: Oct 26 03:44:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.40  | 168  | 1691098  | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 7.44  | 114  | 2324328  | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 11.28 | 117  | 1824077  | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 817832   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.78  | 65   | 693915   | 54.13 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 108.26% |          |
| 35) Dibromofluoromethane    | 6.32  | 113  | 857775   | 48.60 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 97.20%  |          |
| 50) Toluene-d8              | 9.45  | 98   | 2109589  | 41.91 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 83.82%  |          |
| 62) 4-Bromofluorobenzene    | 12.42 | 95   | 798789   | 42.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.78%  |          |

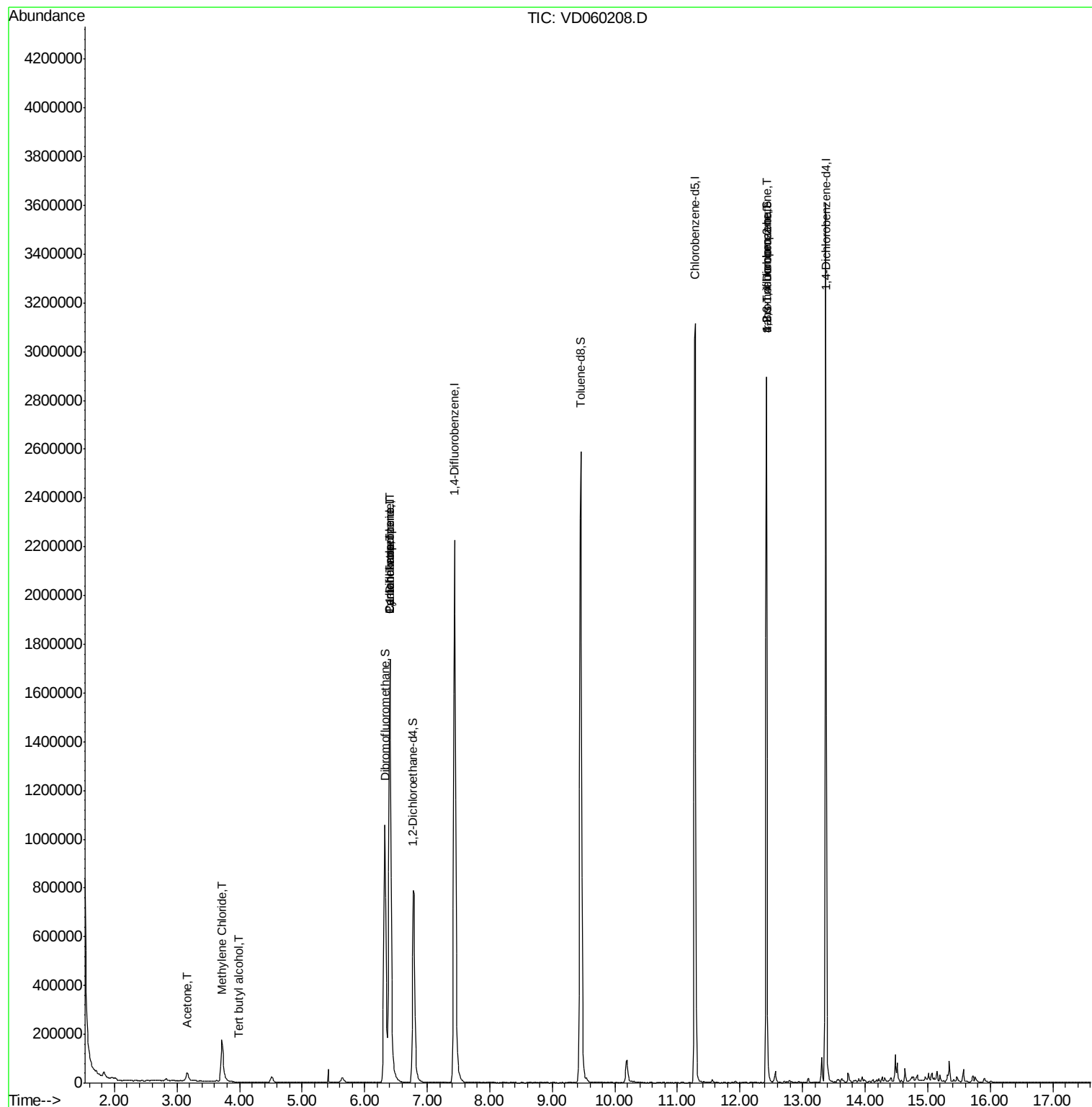
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 3.99  | 59   | 1323     | 1.439   | ug/l # | 74     |
| 16) Acetone                    | 3.16  | 43   | 76196    | 32.758  | ug/l   | 97     |
| 20) Methylene Chloride         | 3.72  | 84   | 109059   | 1.812   | ug/l   | 97     |
| 31) Cyclohexane                | 6.39  | 56   | 33465    | 1.205   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.40  | 75   | 122246   | 5.504   | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 6.40  | 117  | 134171   | 6.656   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.42 | 75   | 313117   | 26.585  | ug/l # | 45     |
| 81) trans-1,4-Dichloro-2-buten | 12.42 | 75   | 332953   | 100.608 | ug/l # | 13     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102518\  
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Sample : J5204-11  
Misc : 6.41g/5ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-02-102518-B

Quant Time: Oct 26 03:44:46 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 06:56:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060208.D

Acq: 25 Oct 2018 21:24

Instrument :

MSVOA\_D

ClientSampleId :

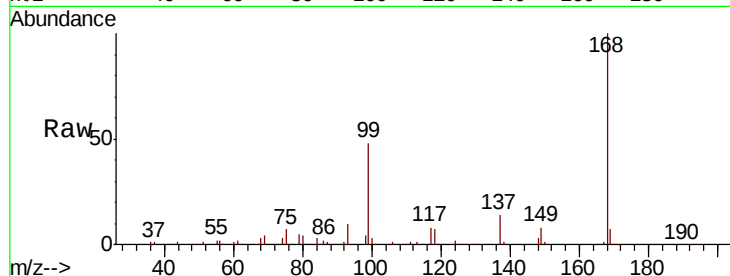
SU-02-102518-B

Tot Ion:168 Resp: 1691098

Ion Ratio Lower Upper

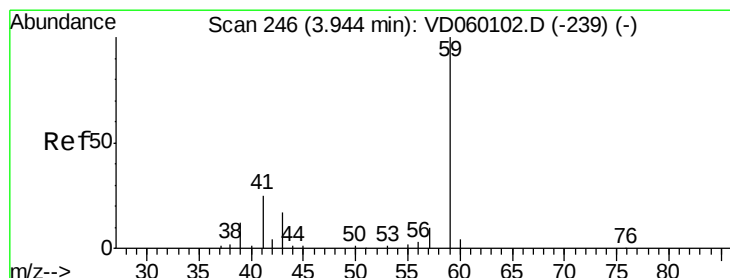
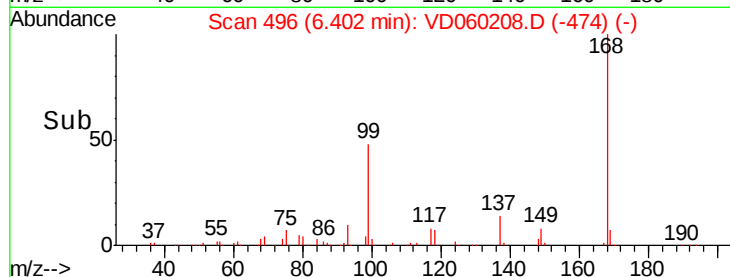
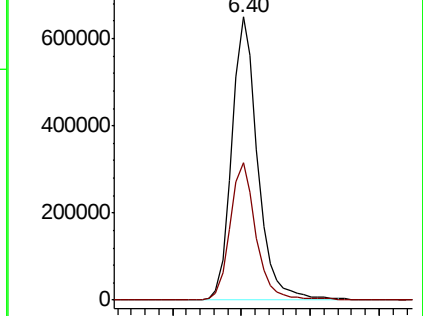
168 100

99 48.4 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.439 ug/l

RT: 3.99 min Scan# 251

Delta R.T. 0.05 min

Lab File: VD060208.D

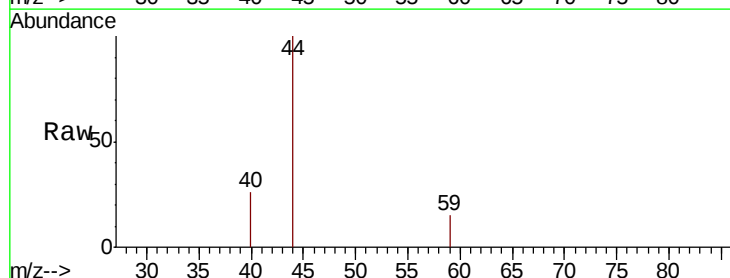
Acq: 25 Oct 2018 21:24

Tgt Ion: 59 Resp: 1323

Ion Ratio Lower Upper

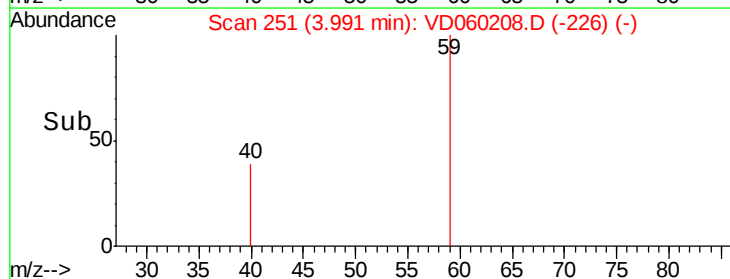
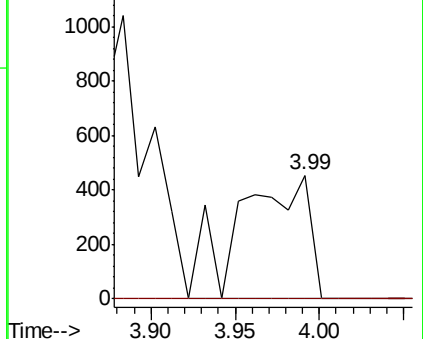
59 100

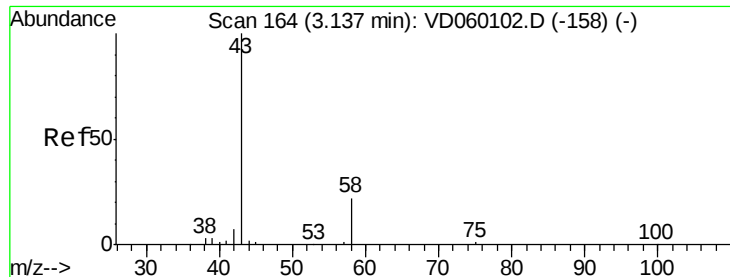
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 32.758 ug/l

RT: 3.16 min Scan# 167

Delta R.T. 0.03 min

Lab File: VD060208.D

Acq: 25 Oct 2018 21:24

Instrument :

MSVOA\_D

ClientSampleId :

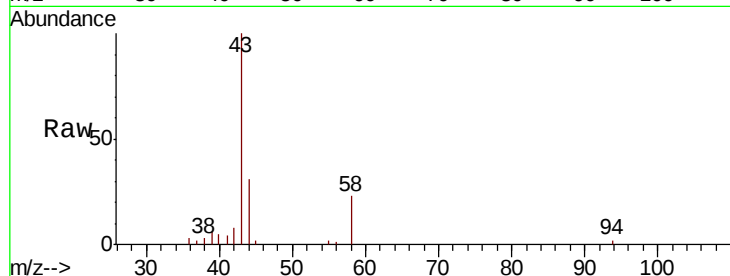
SU-02-102518-B

Tot Ion: 43 Resp: 76196

Ion Ratio Lower Upper

43 100

58 23.4 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

25000

20000

15000

10000

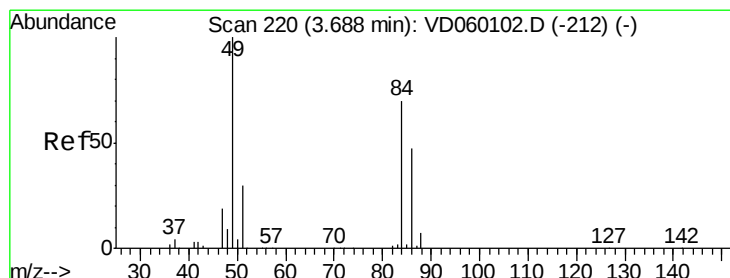
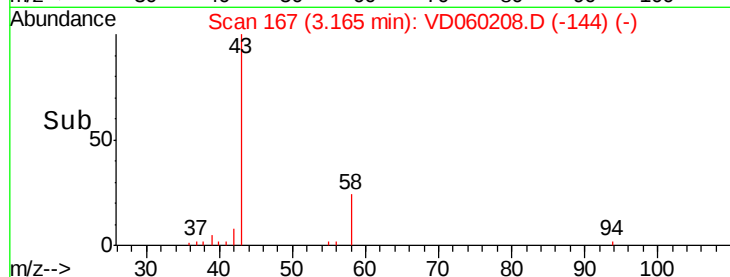
5000

0

3.16

3.00 3.10 3.20 3.30

Time-->



#20

Methylene Chloride

Concen: 1.812 ug/l

RT: 3.72 min Scan# 223

Delta R.T. 0.03 min

Lab File: VD060208.D

Acq: 25 Oct 2018 21:24

Tgt Ion: 84 Resp: 109059

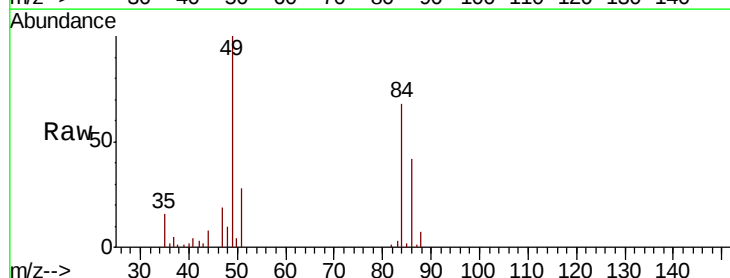
Ion Ratio Lower Upper

84 100

49 146.3 114.6 172.0

51 41.7 33.8 50.8

86 62.0 53.3 79.9



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

80000

60000

40000

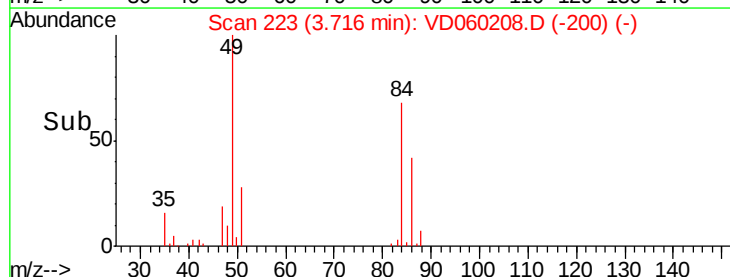
20000

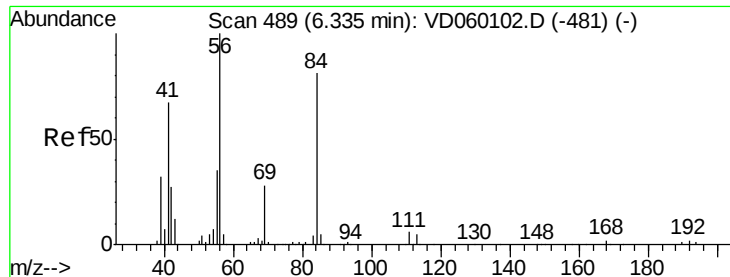
0

3.72

3.60 3.70 3.80 3.90

Time-->

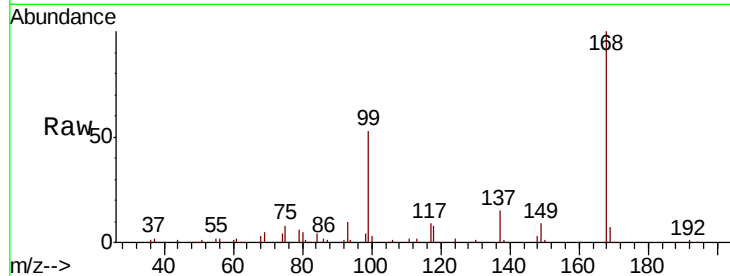




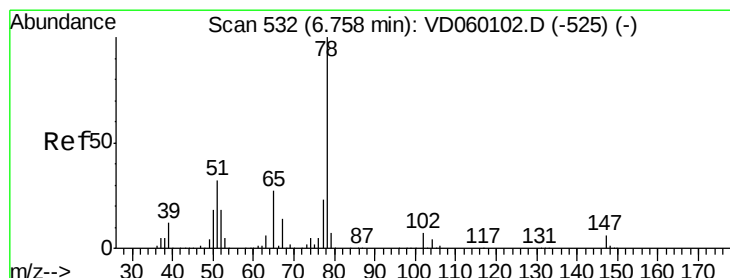
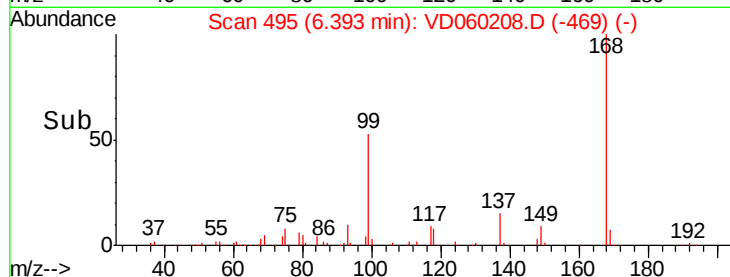
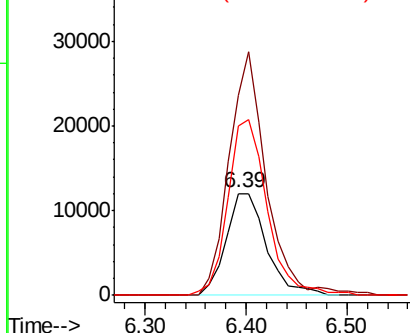
#31  
Cyclohexane  
Concen: 1.205 ug/l  
RT: 6.39 min Scan# 495  
Delta R.T. 0.06 min  
Lab File: VD060208.D  
Acq: 25 Oct 2018 21:24

Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-02-102518-B

Tot Ion: 56 Resp: 33465  
Ion Ratio Lower Upper  
56 100  
69 197.0 22.8 34.2#  
84 167.2 64.9 97.3#

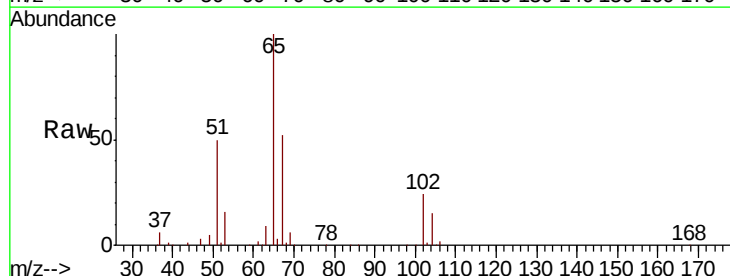


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

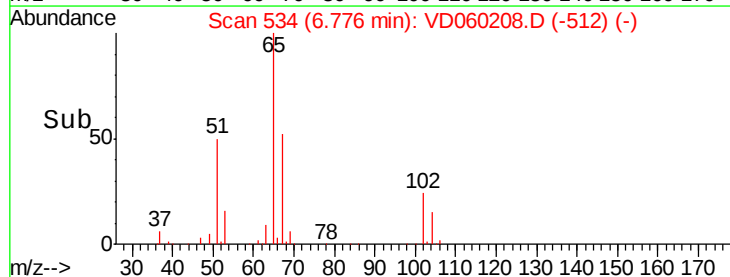
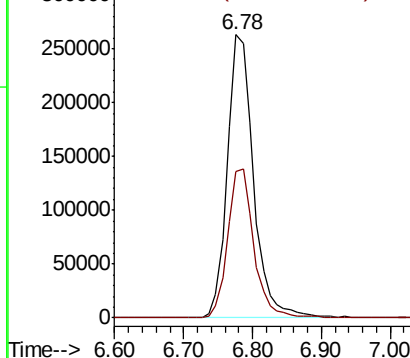


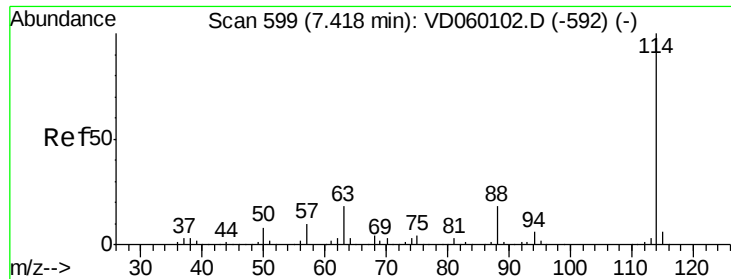
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.78 min Scan# 534  
Delta R.T. 0.02 min  
Lab File: VD060208.D  
Acq: 25 Oct 2018 21:24

Tgt Ion: 65 Resp: 693915  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 106.2



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

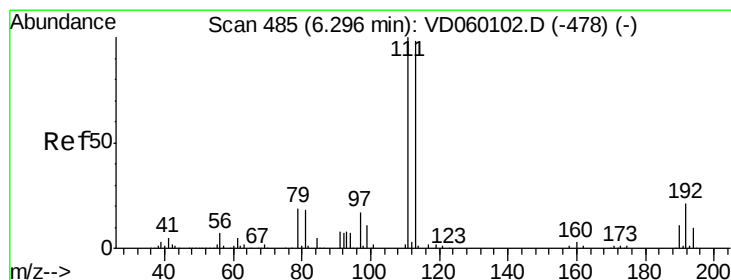
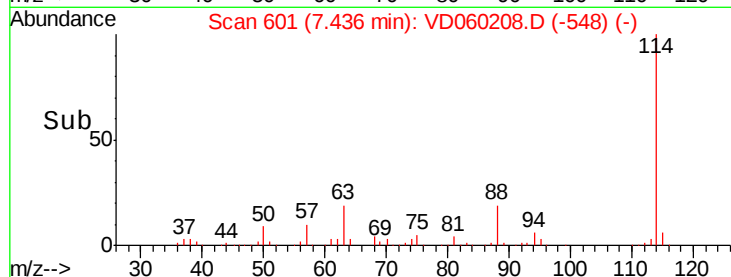
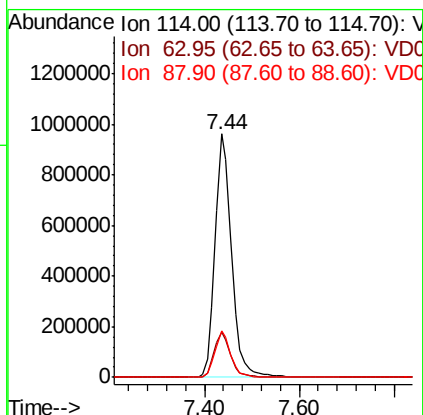
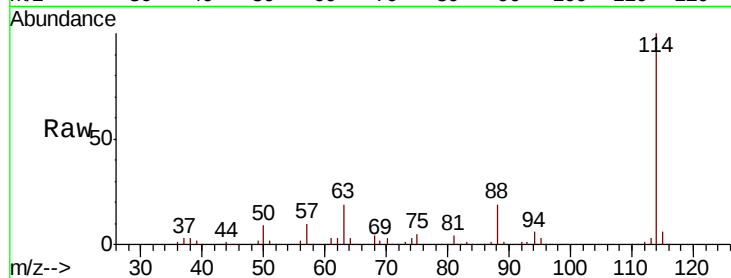




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.44 min Scan# 601  
 Delta R.T. 0.02 min  
 Lab File: VD060208.D  
 Acq: 25 Oct 2018 21:24

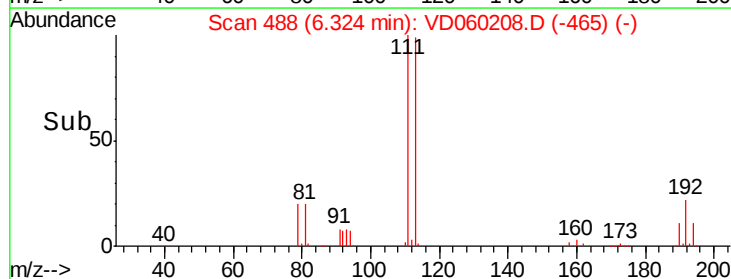
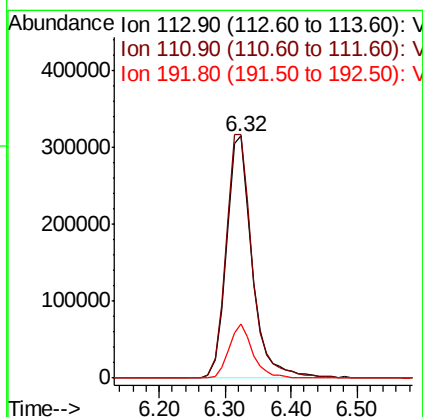
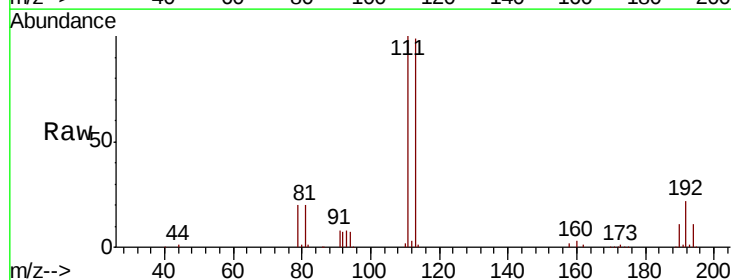
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-102518-B

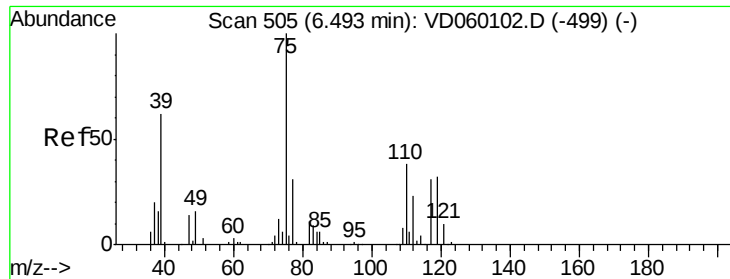
Tot Ion:114 Resp: 2324328  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 0.0 36.0  
 88 19.0 0.0 36.2



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.32 min Scan# 488  
 Delta R.T. 0.03 min  
 Lab File: VD060208.D  
 Acq: 25 Oct 2018 21:24

Tgt Ion:113 Resp: 857775  
 Ion Ratio Lower Upper  
 113 100  
 111 100.5 81.5 122.3  
 192 22.1 17.4 26.0

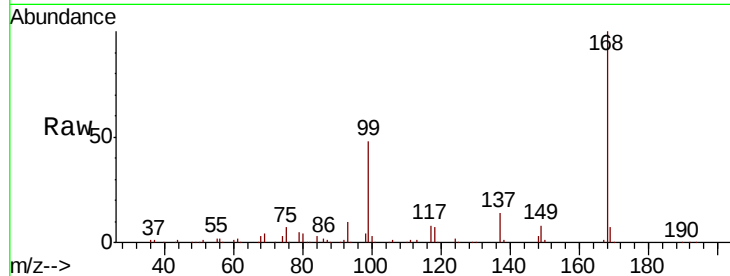




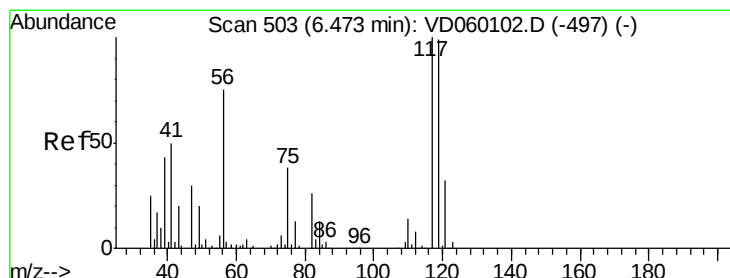
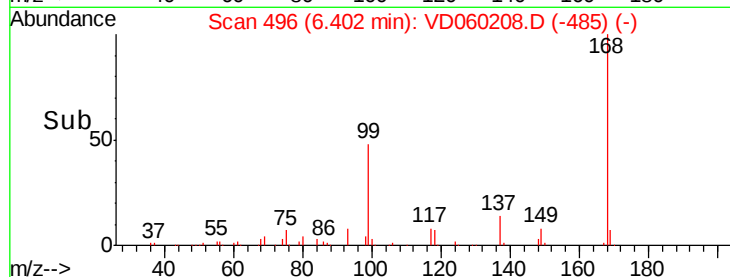
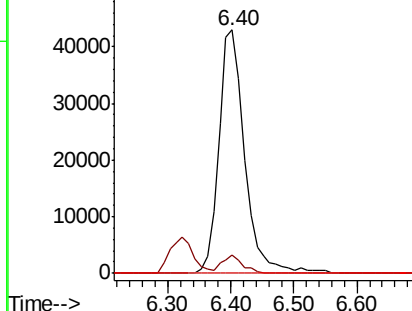
#36  
 1,1-Dichloropropene  
 Concen: 5.504 ug/l  
 RT: 6.40 min Scan# 496  
 Delta R.T. -0.09 min  
 Lab File: VD060208.D  
 Acq: 25 Oct 2018 21:24

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-102518-B

| Tot Ion   | 75    | Resp  | 122246 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 7.3   | 19.0  | 57.0#  |
| 77        | 0.0   | 24.9  | 37.3#  |

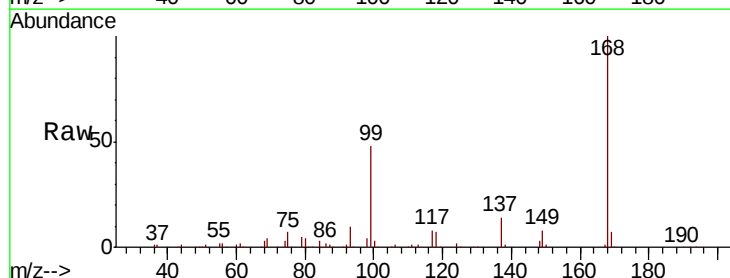


Abundance Ion 75.00 (74.70 to 75.70): VDC  
 Ion 109.90 (109.60 to 110.60): VDC  
 Ion 76.95 (76.65 to 77.65): VDC

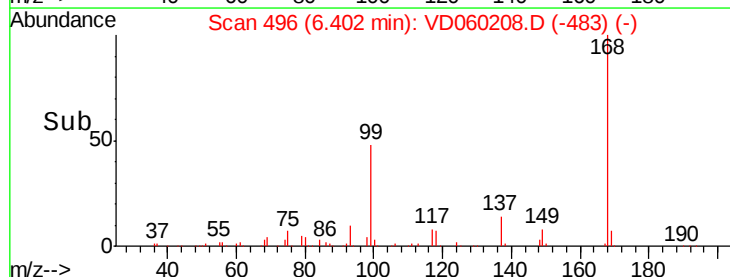
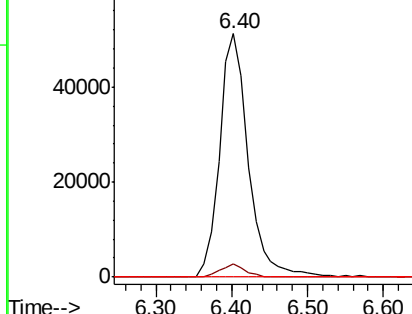


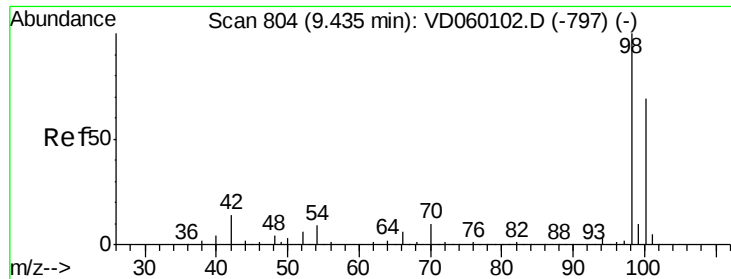
#38  
 Carbon Tetrachloride  
 Concen: 6.656 ug/l  
 RT: 6.40 min Scan# 496  
 Delta R.T. -0.07 min  
 Lab File: VD060208.D  
 Acq: 25 Oct 2018 21:24

| Tgt Ion   | 117   | Resp  | 134171 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.4   | 77.8  | 116.6# |
| 121       | 0.0   | 24.8  | 37.2#  |



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

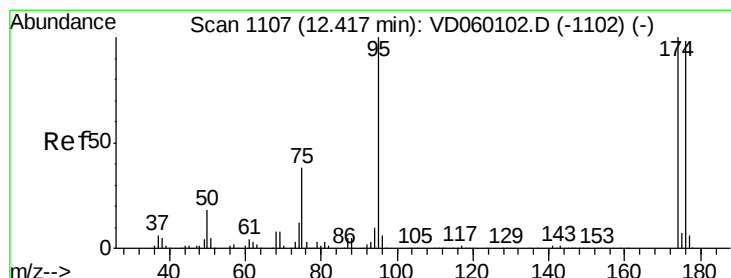
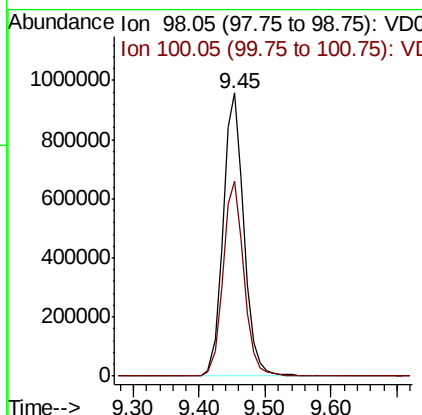
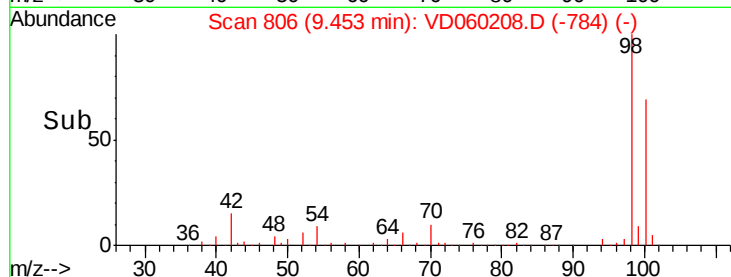
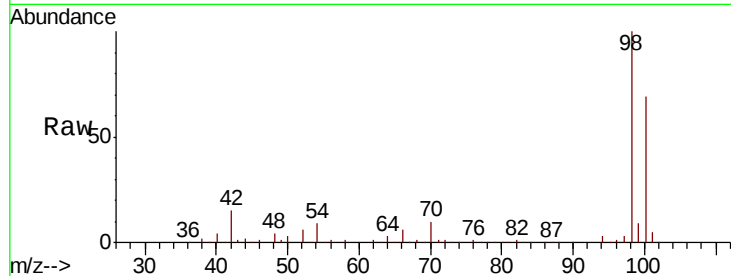




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.45 min Scan# 806  
Delta R.T. 0.02 min  
Lab File: VD060208.D  
Acq: 25 Oct 2018 21:24

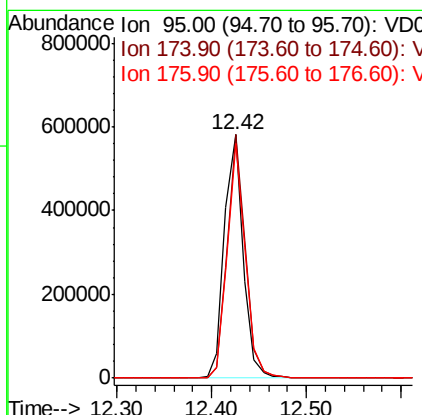
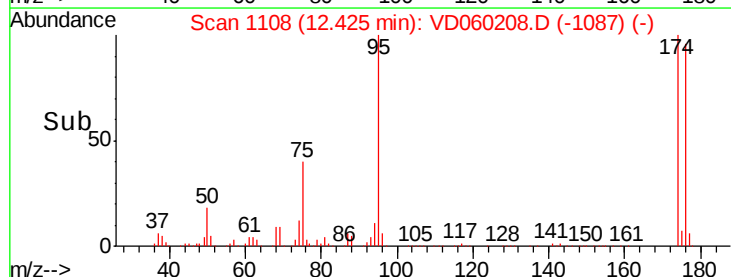
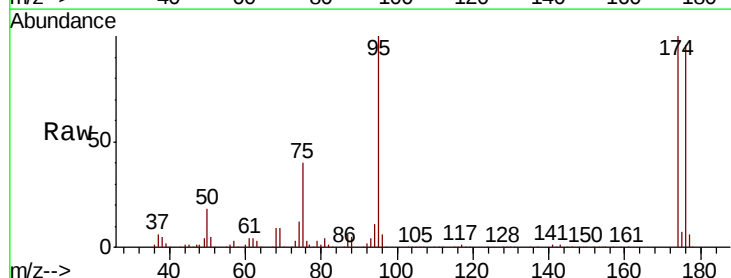
Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-02-102518-B

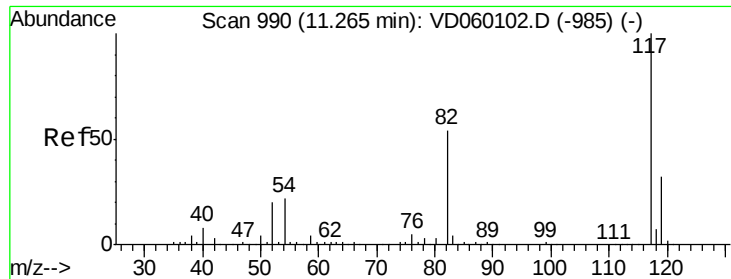
Tot Ion: 98 Resp: 2109589  
Ion Ratio Lower Upper  
98 100  
100 68.8 55.4 83.0



#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.42 min Scan# 1108  
Delta R.T. 0.01 min  
Lab File: VD060208.D  
Acq: 25 Oct 2018 21:24

Tgt Ion: 95 Resp: 798789  
Ion Ratio Lower Upper  
95 100  
174 99.8 0.0 200.2  
176 96.3 0.0 195.6

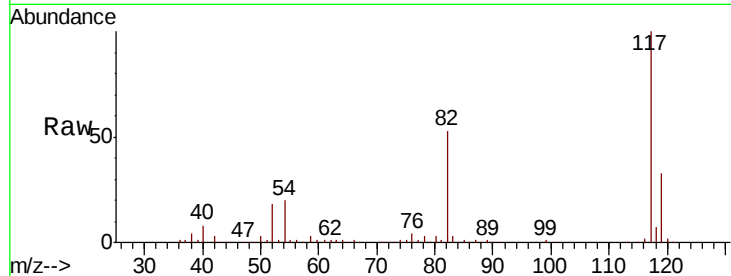




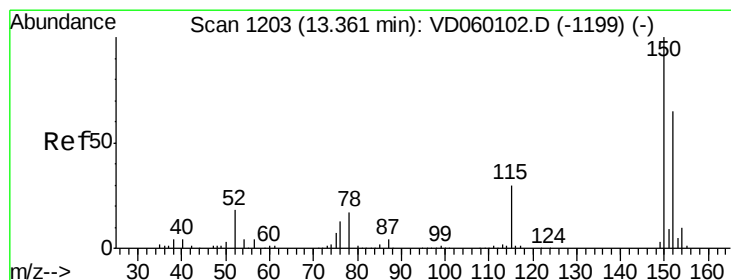
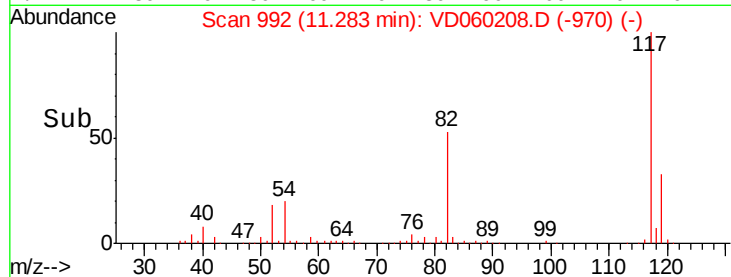
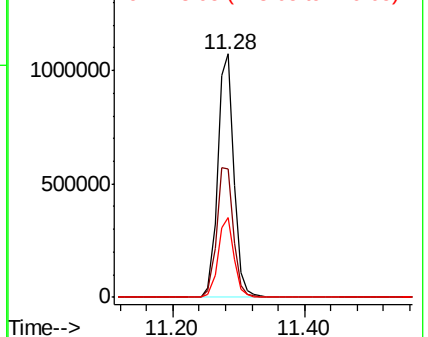
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.28 min Scan# 992  
Delta R.T. 0.02 min  
Lab File: VD060208.D  
Acq: 25 Oct 2018 21:24

Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-02-102518-B

Tot Ion:117 Resp: 1824077  
Ion Ratio Lower Upper  
117 100  
82 52.6 43.4 65.2  
119 32.6 26.0 39.0

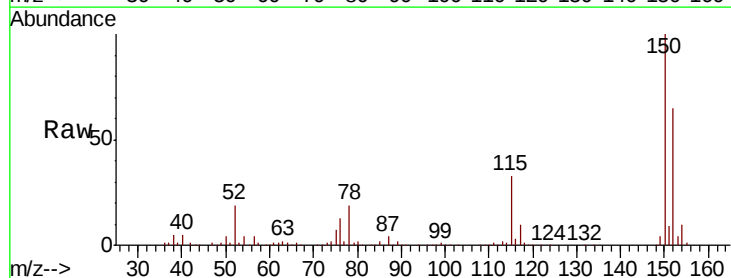


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

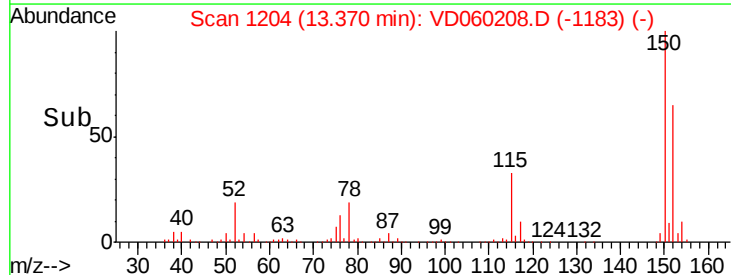
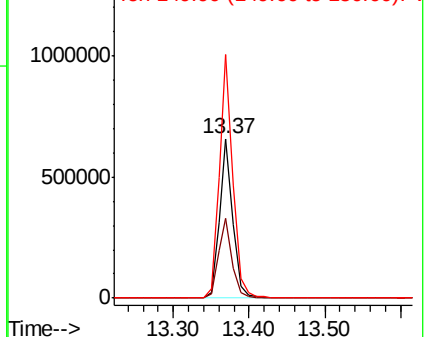


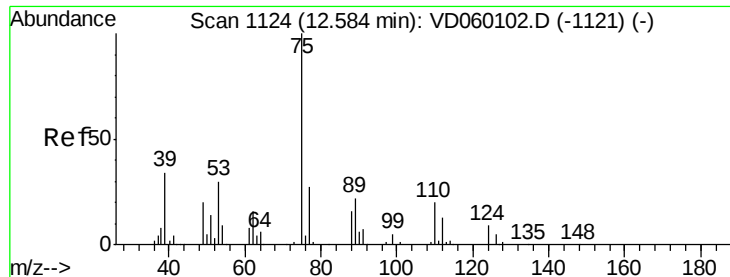
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.37 min Scan# 1204  
Delta R.T. 0.01 min  
Lab File: VD060208.D  
Acq: 25 Oct 2018 21:24

Tgt Ion:152 Resp: 817832  
Ion Ratio Lower Upper  
152 100  
115 50.3 27.1 81.2  
150 152.8 0.0 311.8



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

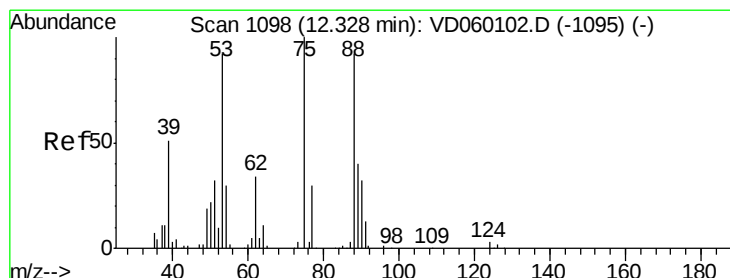
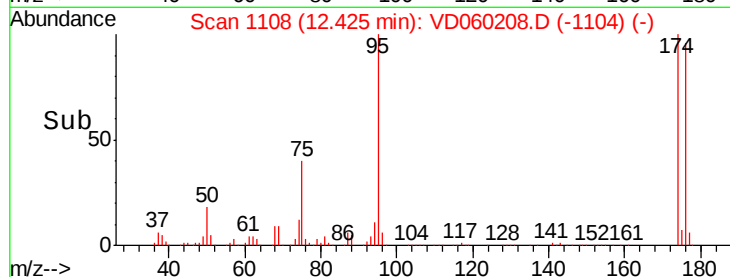
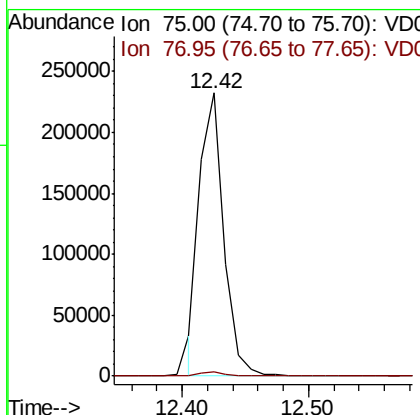
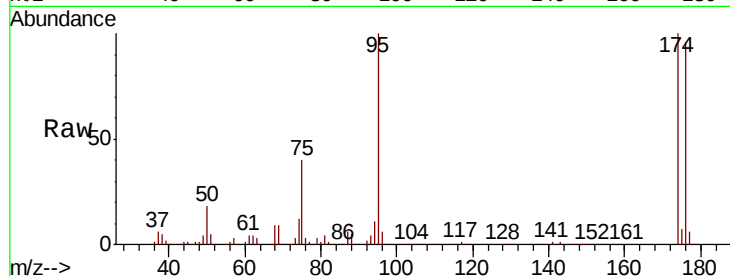




#76  
 1,2,3-Trichloropropane  
 Concen: 26.585 ug/l  
 RT: 12.42 min Scan# 1108  
 Delta R.T. -0.16 min  
 Lab File: VD060208.D  
 Acq: 25 Oct 2018 21:24

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-102518-B

Tot Ion: 75 Resp: 313117  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 16.3 48.9#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 100.608 ug/l  
 RT: 12.42 min Scan# 1108  
 Delta R.T. 0.10 min  
 Lab File: VD060208.D  
 Acq: 25 Oct 2018 21:24

Tgt Ion: 75 Resp: 332953  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.0 109.6#  
 89 0.0 32.0 48.0#

