

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081218\  
 Data File : VW004583.D  
 Acq On : 10 Aug 2018 05:52  
 Operator : SY/AP  
 Sample : J4382-03  
 Misc : 17.57G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JTY-SB-03-5-7

Quant Time: Aug 10 08:00:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 08:22:01 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 441744   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 707451   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 522189   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 234932   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 3273     | 0.67 | ug/l  | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 1.34% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 3191     | 0.68 | ug/l  | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 1.36% |          |
| 50) Toluene-d8              | 10.32 | 98   | 5102     | 0.28 | ug/l  | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 0.56% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 2947     | 0.45 | ug/l  | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 0.90% |          |

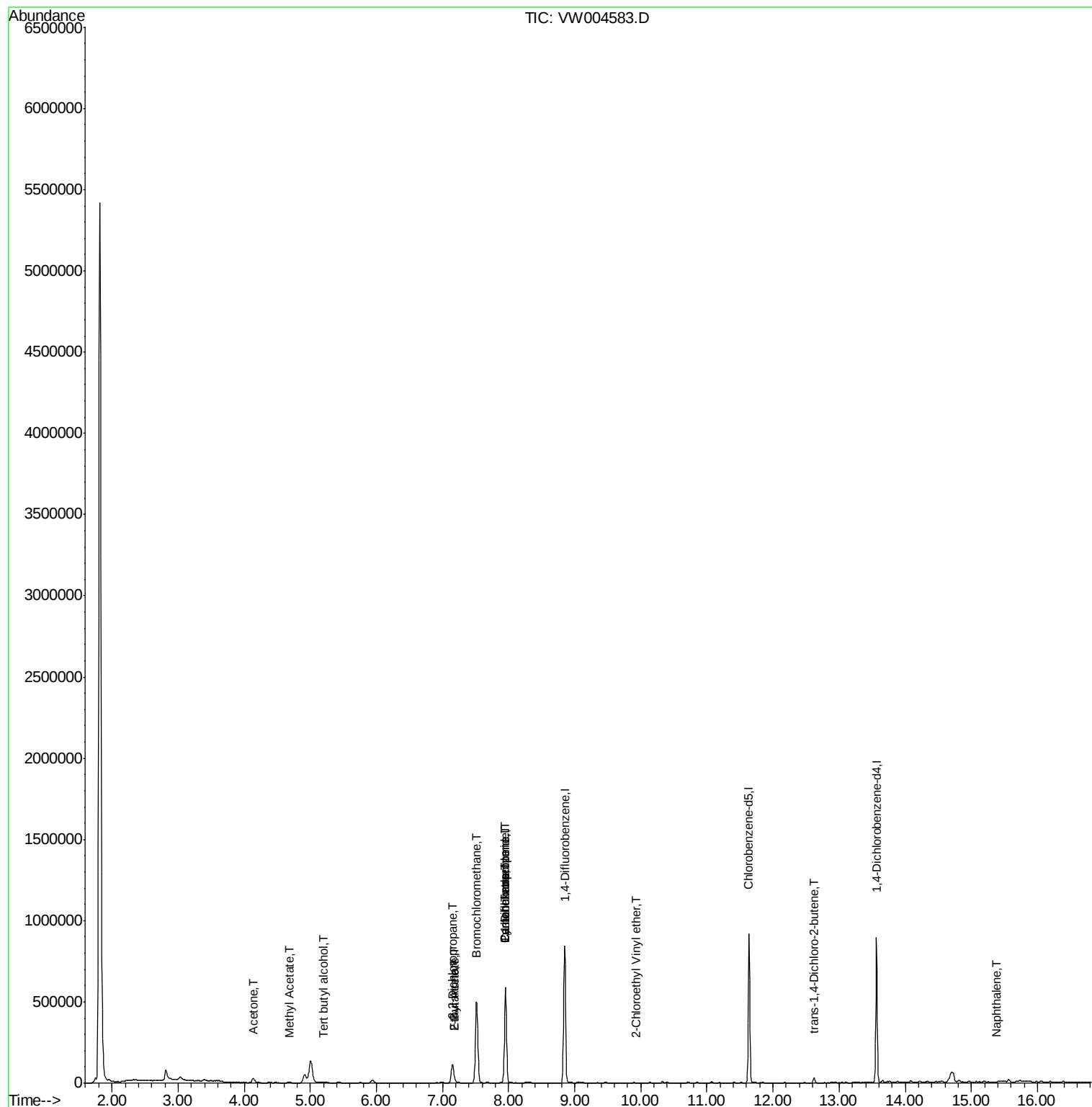
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.20  | 59   | 3925     | 13.709    | ug/l # | 84     |
| 16) Acetone                    | 4.14  | 43   | 45928    | 37.609    | ug/l   | 100    |
| 18) Methyl Acetate             | 4.68  | 43   | 4004     | 1.315     | ug/l # | 85     |
| 20) Methylene Chloride         | 4.92  | 84   | 42517    | Below Cal |        | 95     |
| 25) 2-Butanone                 | 7.18  | 43   | 12138    | 6.179     | ug/l # | 79     |
| 26) 2,2-Dichloropropane        | 7.15  | 77   | 7833     | 1.559     | ug/l # | 50     |
| 28) Bromochloromethane         | 7.51  | 49   | 313842   | 75.345    | ug/l   | 98     |
| 31) Cyclohexane                | 7.95  | 56   | 9289     | 1.014     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 35562    | 4.669     | ug/l # | 49     |
| 37) Ethyl Acetate              | 7.18  | 43   | 12138    | 3.402     | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 41586    | 6.067     | ug/l # | 17     |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 283      | 9.049     | ug/l # | 85     |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 1411     | 1.389     | ug/l # | 15     |
| 95) Naphthalene                | 15.38 | 128  | 1409     | 3.041     | ug/l # | 91     |

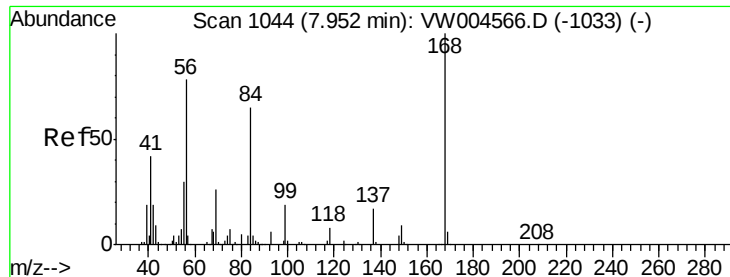
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW081218\  
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Quant Time: Aug 10 08:00:17 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W080618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 08:22:01 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004583.D

Acq: 10 Aug 2018 05:52

Instrument :

MSVOA\_W

ClientSampleId :

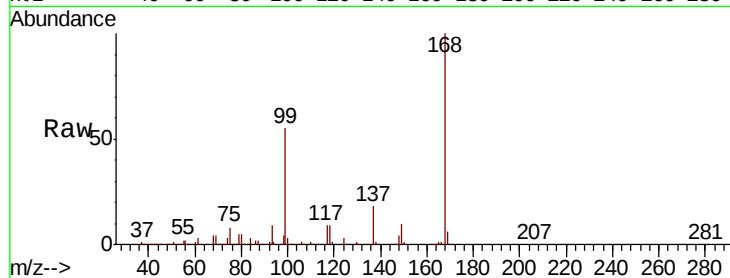
JTY-SB-03-5-7

Tgt Ion:168 Resp: 441744

Ion Ratio Lower Upper

168 100

99 55.2 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

100000

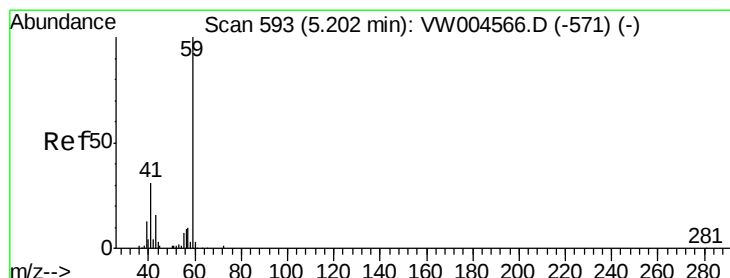
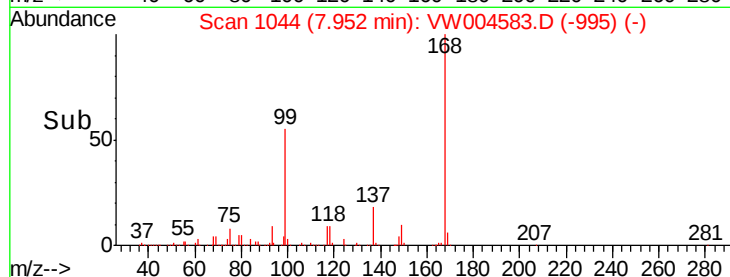
50000

0

7.90

8.00

Time-->



#11

Tert butyl alcohol

Concen: 13.709 ug/l

RT: 5.20 min Scan# 593

Delta R.T. -0.01 min

Lab File: VW004583.D

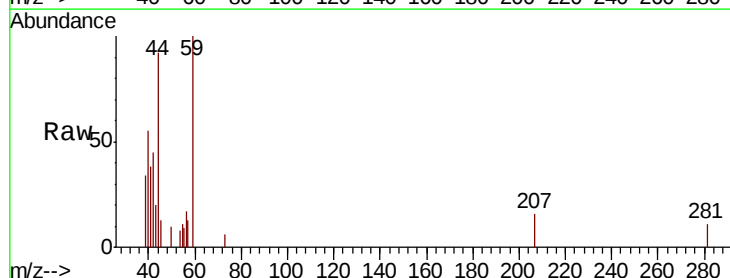
Acq: 10 Aug 2018 05:52

Tgt Ion: 59 Resp: 3925

Ion Ratio Lower Upper

59 100

57 5.2 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.20

1000

800

600

400

200

0

5.10

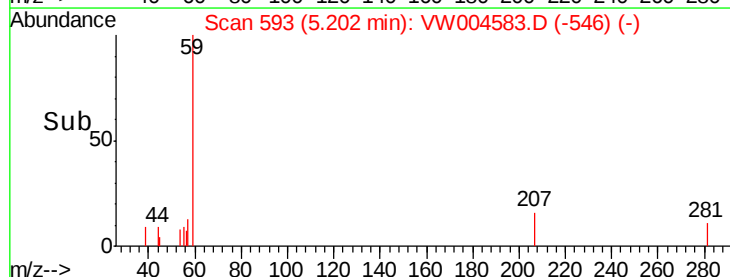
5.15

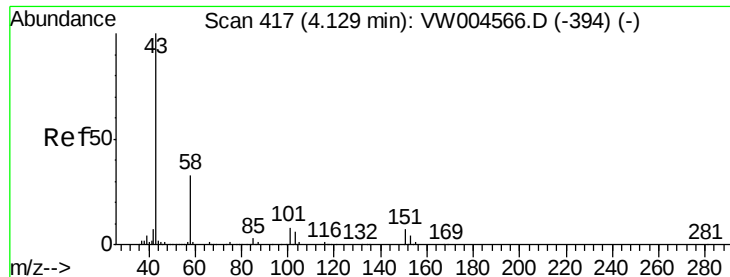
5.20

5.25

5.30

Time-->





#16

Acetone

Concen: 37.609 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.00 min

Lab File: VW004583.D

Acq: 10 Aug 2018 05:52

Instrument :

MSVOA\_W

ClientSampleId :

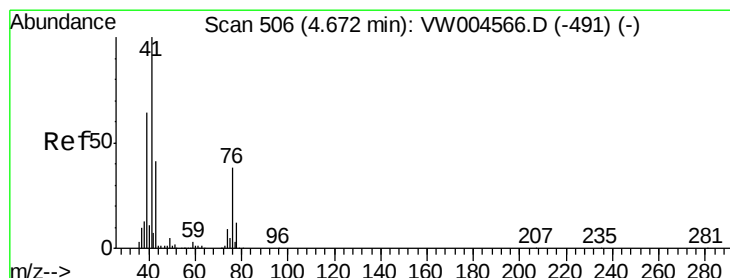
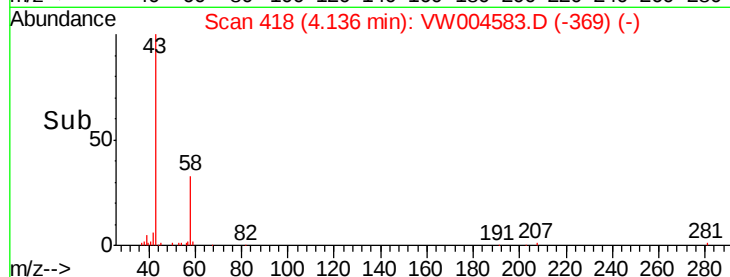
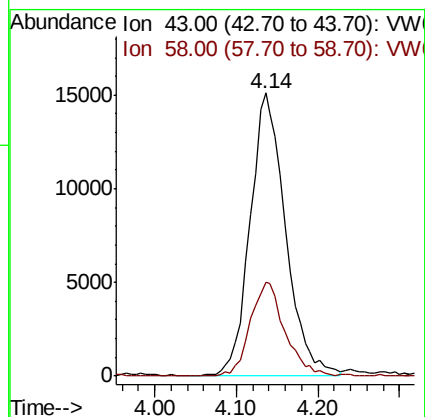
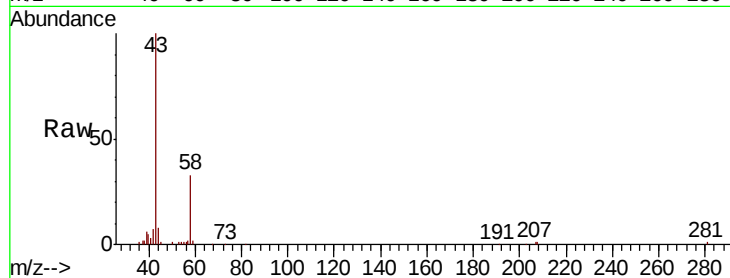
JTY-SB-03-5-7

Tgt Ion: 43 Resp: 45928

Ion Ratio Lower Upper

43 100

58 33.2 26.8 40.2



#18

Methyl Acetate

Concen: 1.315 ug/l

RT: 4.68 min Scan# 508

Delta R.T. 0.01 min

Lab File: VW004583.D

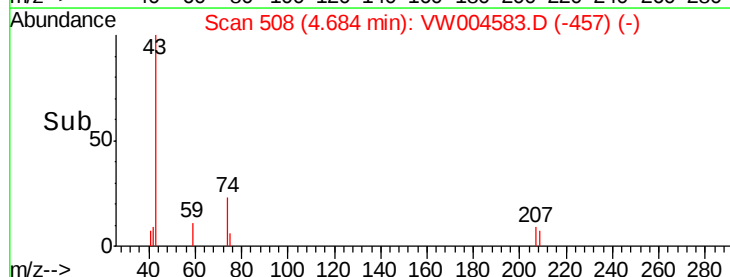
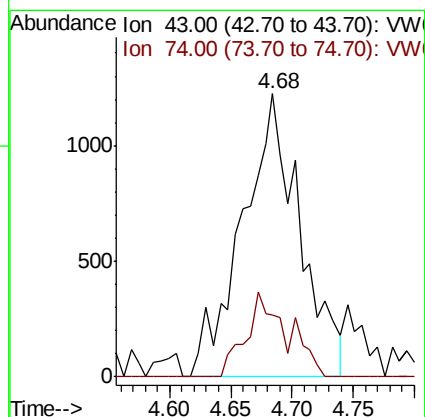
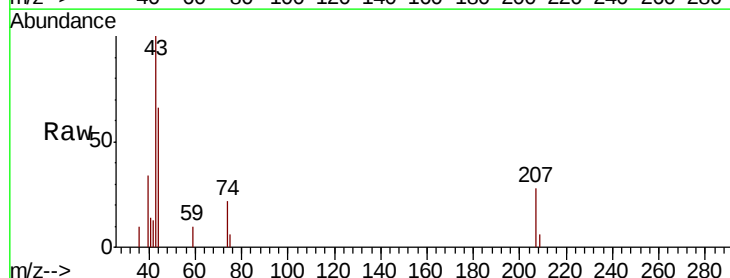
Acq: 10 Aug 2018 05:52

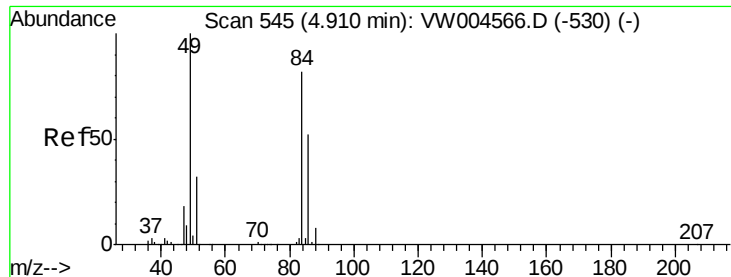
Tgt Ion: 43 Resp: 4004

Ion Ratio Lower Upper

43 100

74 16.6 19.1 28.7#

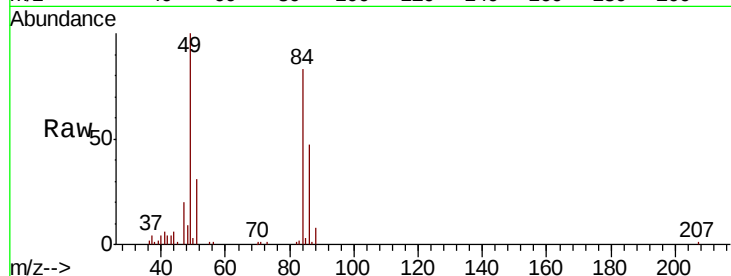




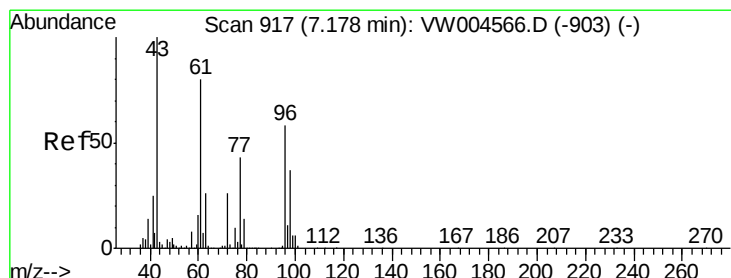
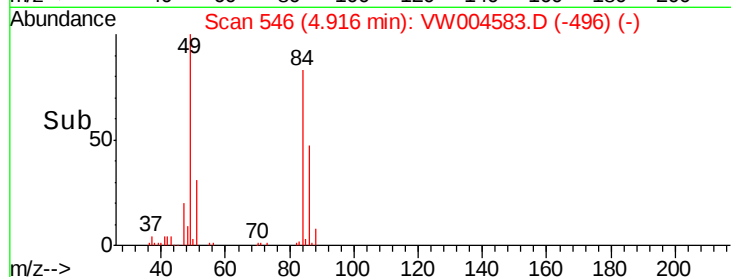
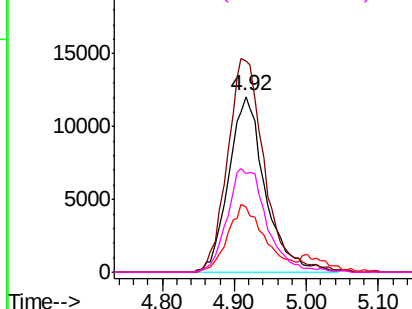
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.92 min Scan# 546  
Delta R.T. 0.01 min  
Lab File: VW004583.D  
Acq: 10 Aug 2018 05:52

Instrument :  
MSVOA\_W  
ClientSampleId :  
JTY-SB-03-5-7

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 42517 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 120.1 | 99.6  | 149.4 |
| 51       | 37.1  | 31.0  | 46.4  |
| 86       | 56.3  | 51.5  | 77.3  |

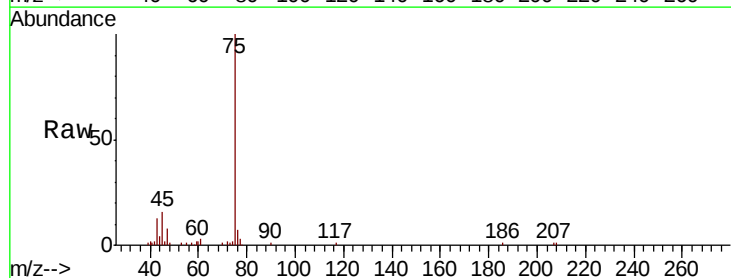


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

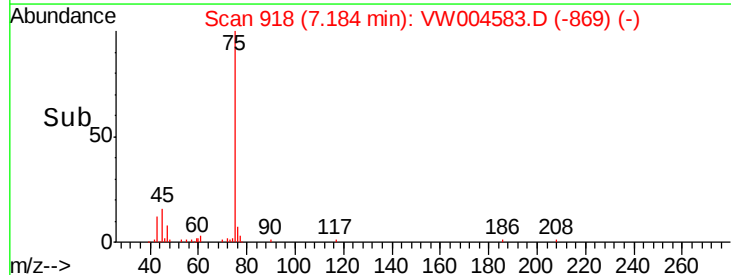
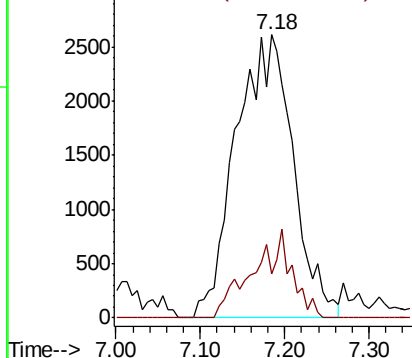


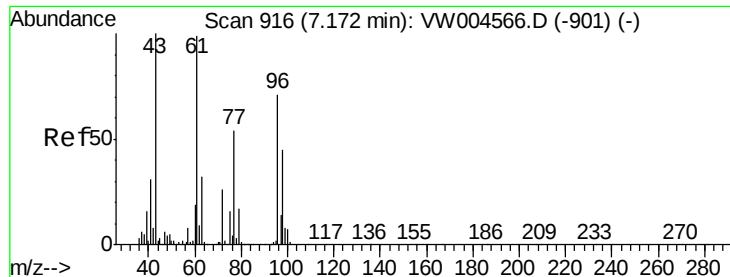
#25  
2-Butanone  
Concen: 6.179 ug/l  
RT: 7.18 min Scan# 918  
Delta R.T. 0.00 min  
Lab File: VW004583.D  
Acq: 10 Aug 2018 05:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 12138 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 15.6  | 21.0  | 31.6# |



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW

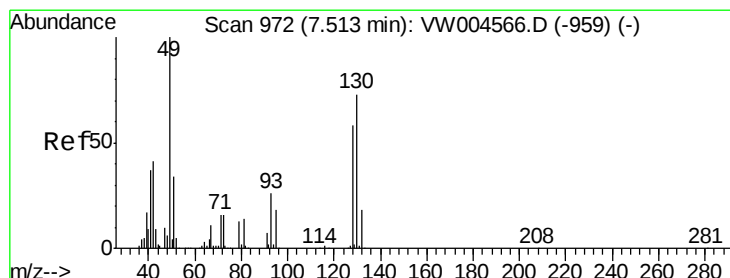
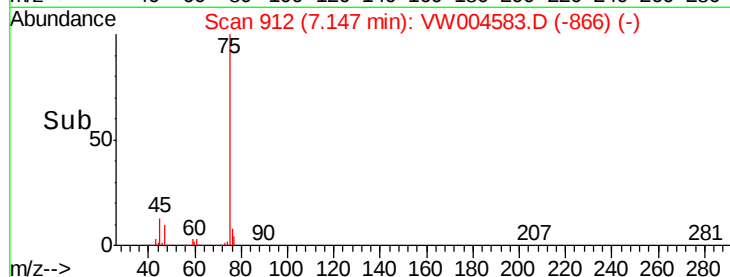
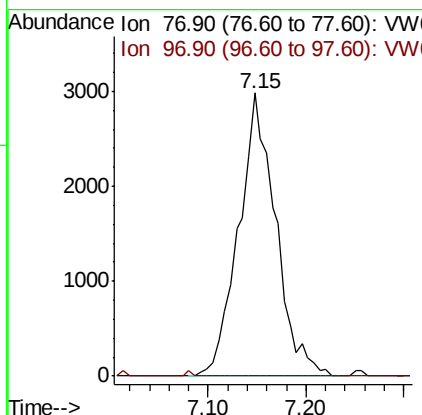
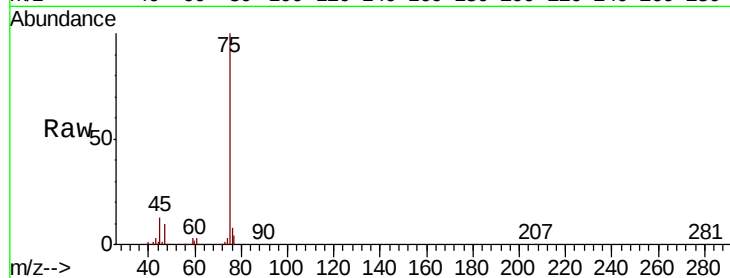




#26  
 2,2-Dichloropropane  
 Concen: 1.559 ug/l  
 RT: 7.15 min Scan# 912  
 Delta R.T. -0.02 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

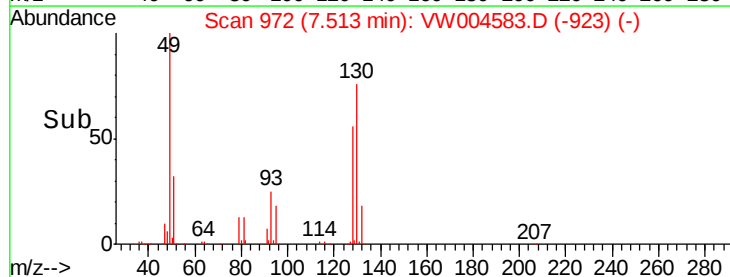
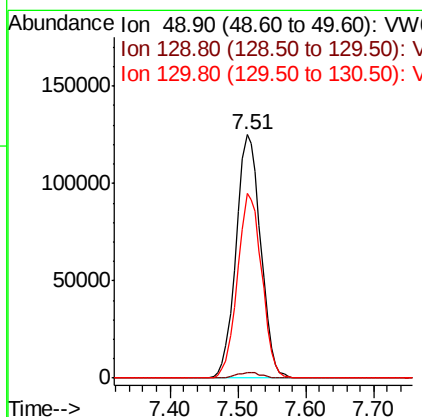
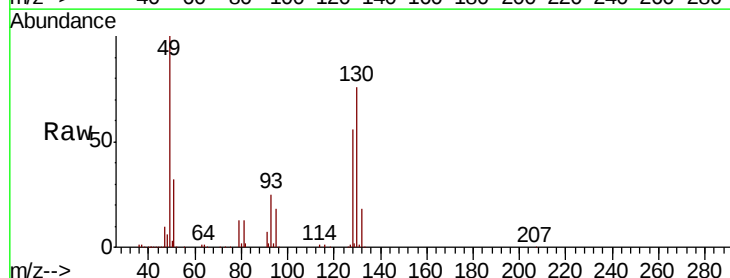
Instrument :  
 MSVOA\_W  
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 JTY-SB-03-5-7

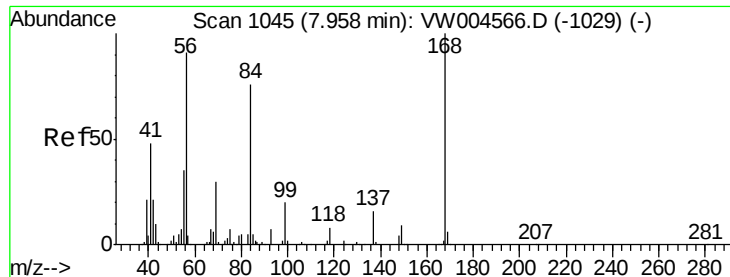
Tgt Ion: 77 Resp: 7833  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 12.5 37.5#



#28  
 Bromochloromethane  
 Concen: 75.345 ug/l  
 RT: 7.51 min Scan# 972  
 Delta R.T. 0.00 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

Tgt Ion: 49 Resp: 313842  
 Ion Ratio Lower Upper  
 49 100  
 129 2.3 0.0 4.0  
 130 75.2 58.8 88.2

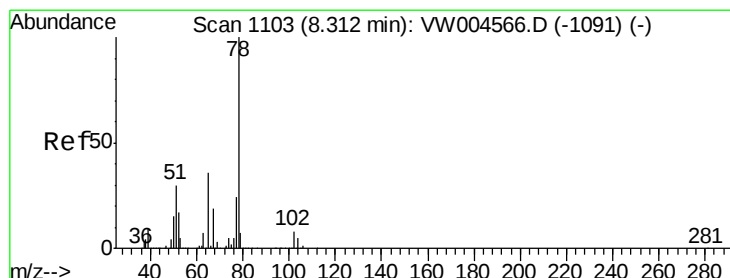
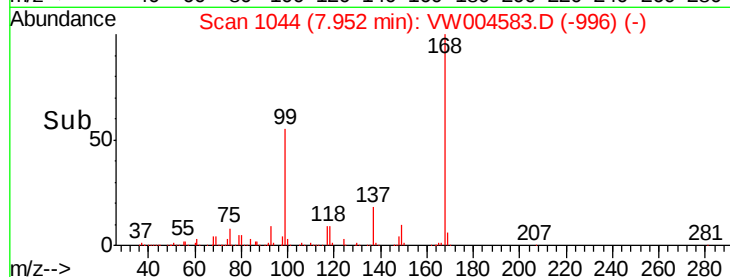
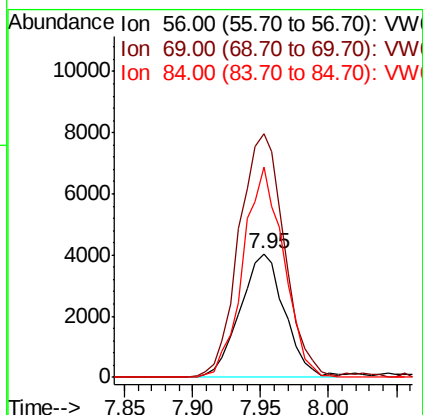
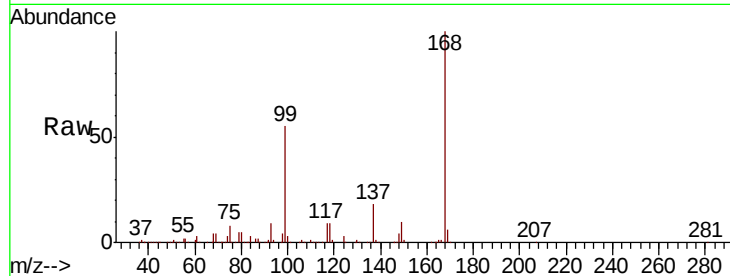




#31  
Cyclohexane  
Concen: 1.014 ug/l  
RT: 7.95 min Scan# 1044  
Delta R.T. -0.01 min  
Lab File: VW004583.D  
Acq: 10 Aug 2018 05:52

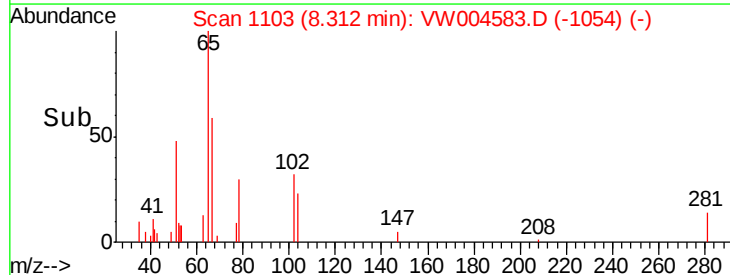
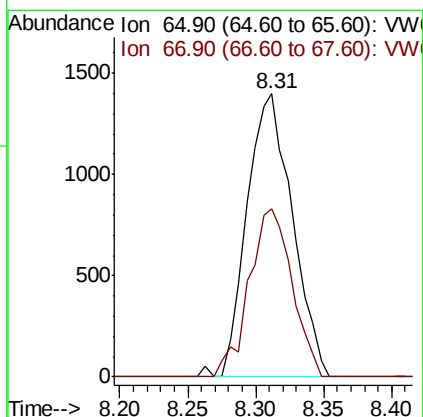
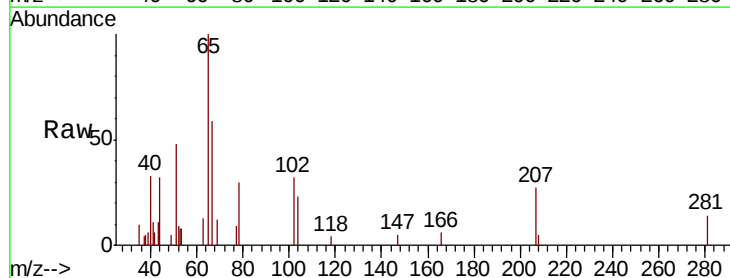
Instrument :  
MSVOA\_W  
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JTY-SB-03-5-7

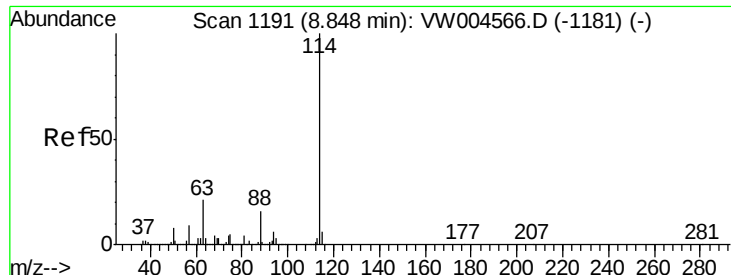
Tgt Ion: 56 Resp: 9289  
Ion Ratio Lower Upper  
56 100  
69 197.2 26.4 39.6#  
84 170.5 66.9 100.3#



#33  
1,2-Dichloroethane-d4  
Concen: 0.669 ug/l  
RT: 8.31 min Scan# 1103  
Delta R.T. 0.00 min  
Lab File: VW004583.D  
Acq: 10 Aug 2018 05:52

Tgt Ion: 65 Resp: 3273  
Ion Ratio Lower Upper  
65 100  
67 56.0 0.0 109.0

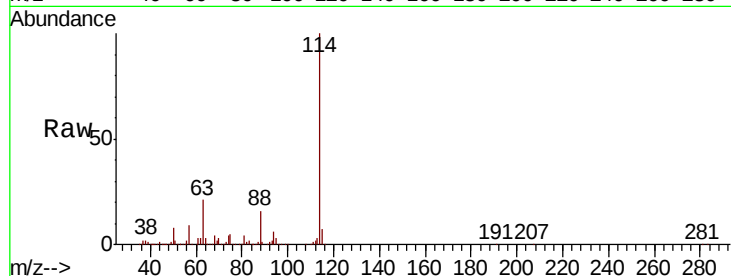




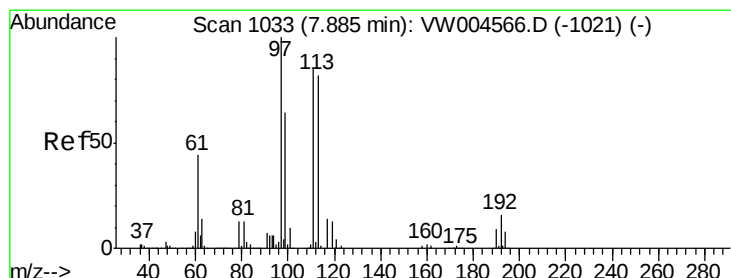
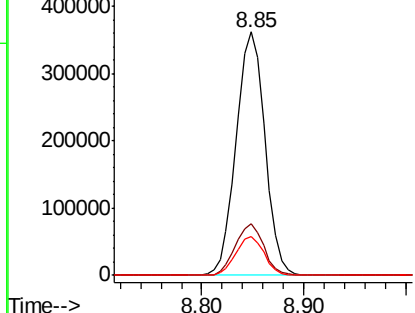
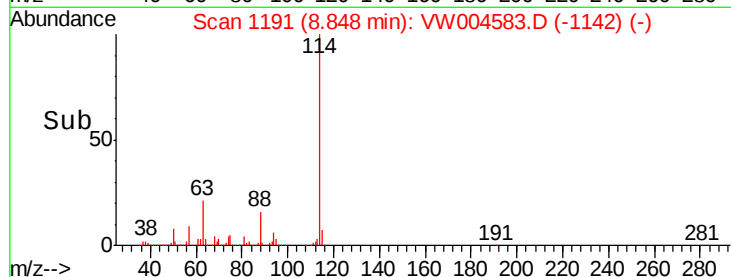
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JTY-SB-03-5-7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.0  | 0.0   | 42.4  |
| 88      | 15.8  | 0.0   | 31.2  |

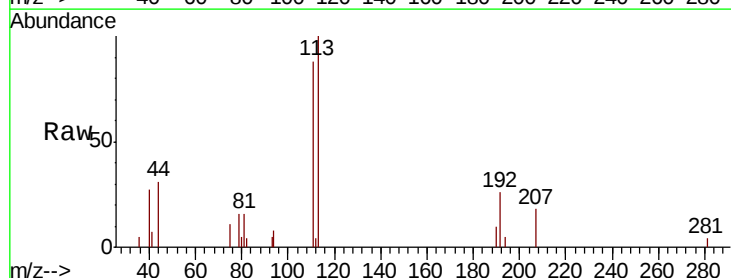


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VW  
 Ion 87.90 (87.60 to 88.60): VW

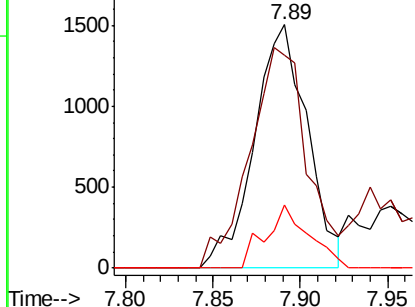
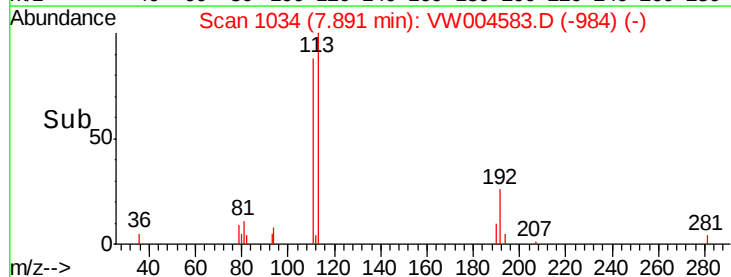


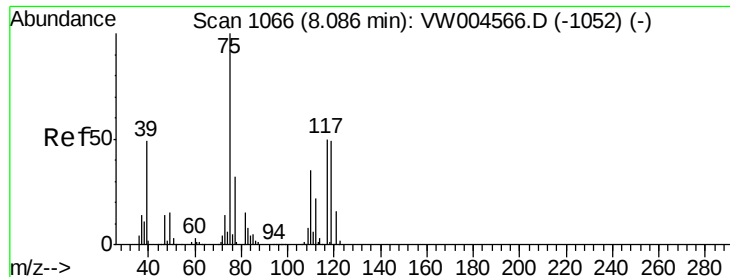
#35  
 Dibromofluoromethane  
 Concen: 0.676 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 98.0  | 82.9  | 124.3 |
| 192     | 21.1  | 15.8  | 23.6  |



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

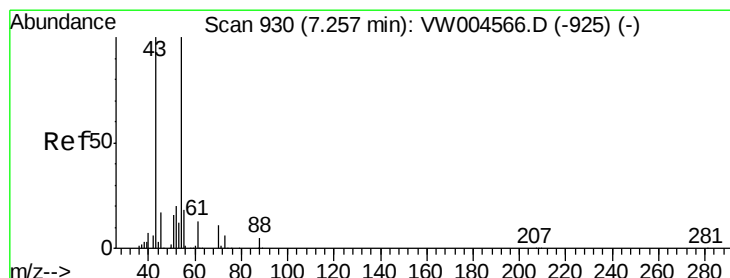
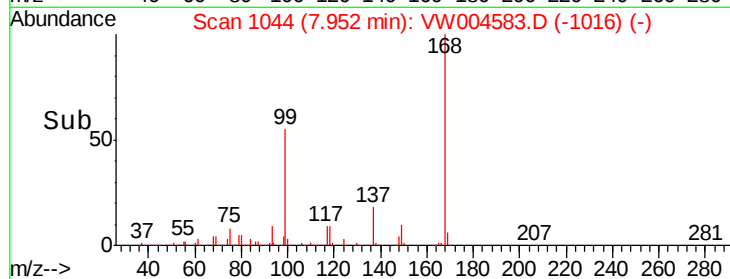
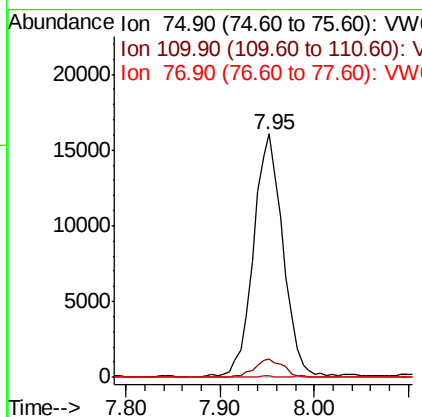
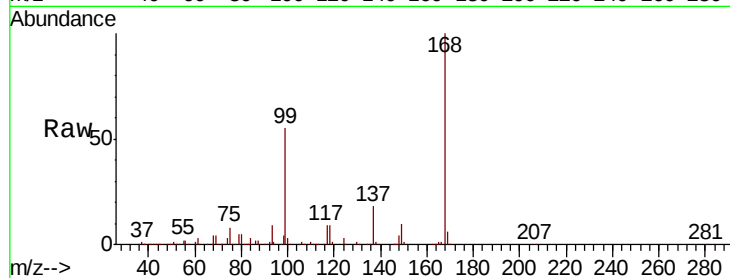




#36  
 1,1-Dichloropropene  
 Concen: 4.669 ug/l  
 RT: 7.95 min Scan# 1044  
 Delta R.T. -0.13 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

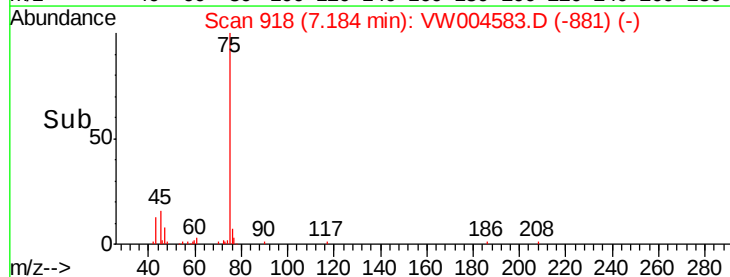
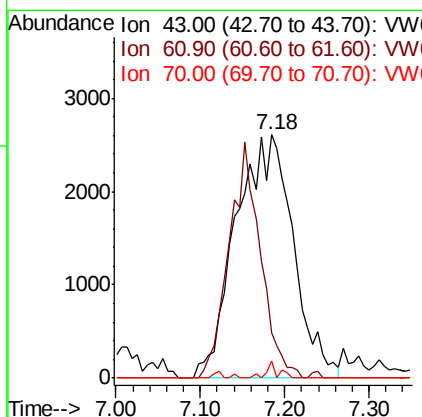
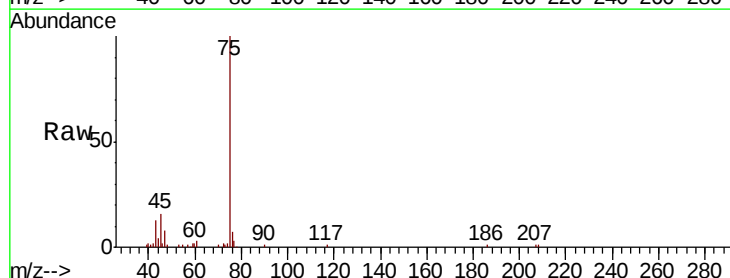
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JTY-SB-03-5-7

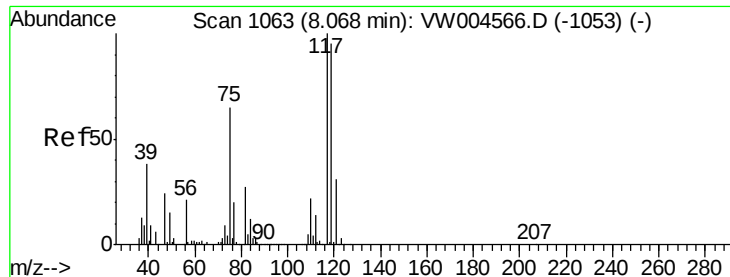
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.4   | 17.4  | 52.2# |
| 77      | 0.2   | 24.7  | 37.1# |



#37  
 Ethyl Acetate  
 Concen: 3.402 ug/l  
 RT: 7.18 min Scan# 918  
 Delta R.T. -0.07 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.0   | 11.9  | 17.9# |
| 70      | 1.3   | 8.2   | 12.4# |





#38

Carbon Tetrachloride

Concen: 6.067 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004583.D

Acq: 10 Aug 2018 05:52

Instrument :

MSVOA\_W

ClientSampleId :

JTY-SB-03-5-7

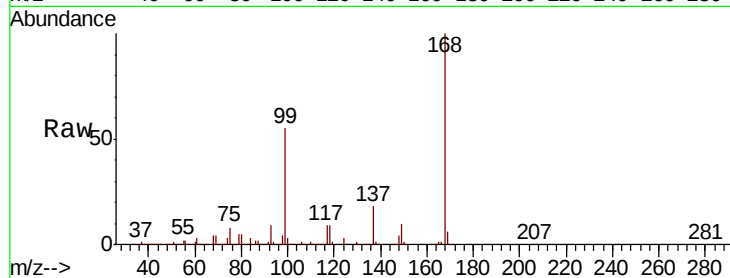
Tgt Ion: 117 Resp: 41586

Ion Ratio Lower Upper

117 100

119 6.1 76.1 114.1#

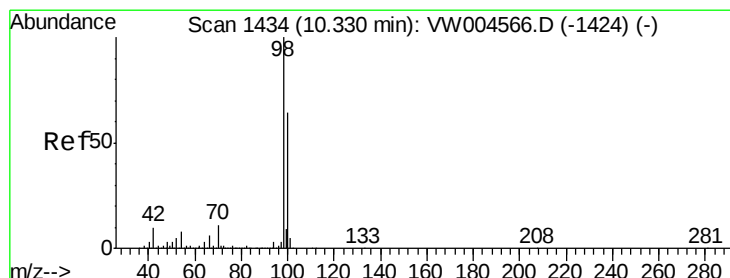
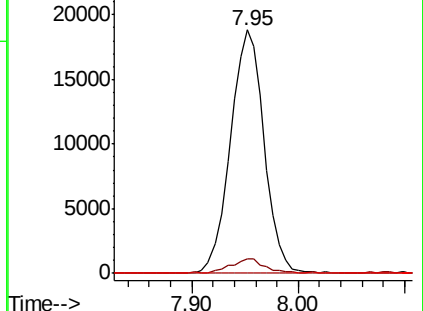
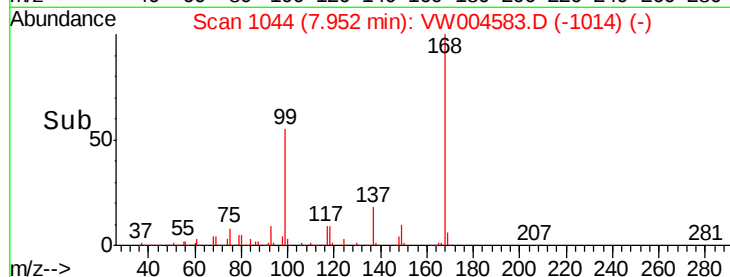
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 0.284 ug/l

RT: 10.32 min Scan# 1433

Delta R.T. -0.01 min

Lab File: VW004583.D

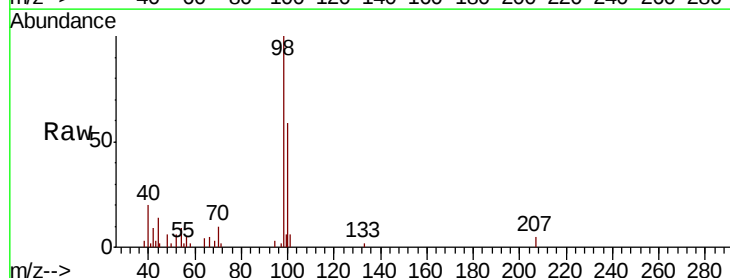
Acq: 10 Aug 2018 05:52

Tgt Ion: 98 Resp: 5102

Ion Ratio Lower Upper

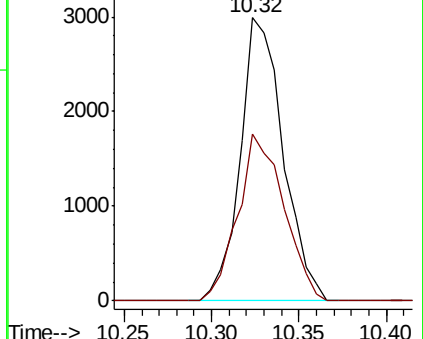
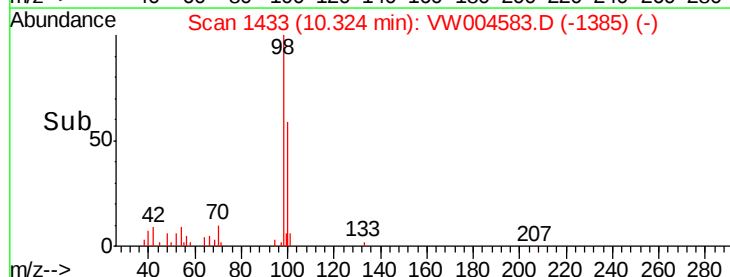
98 100

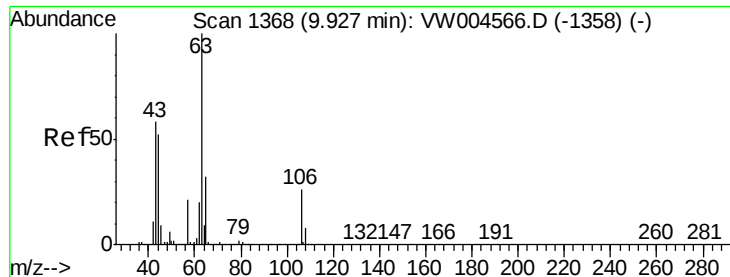
100 63.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

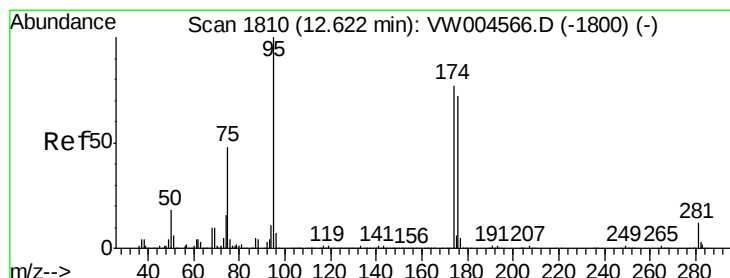
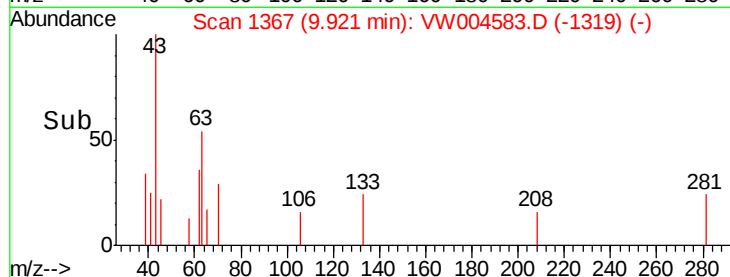
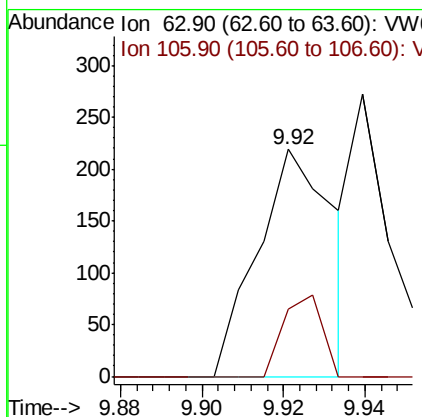
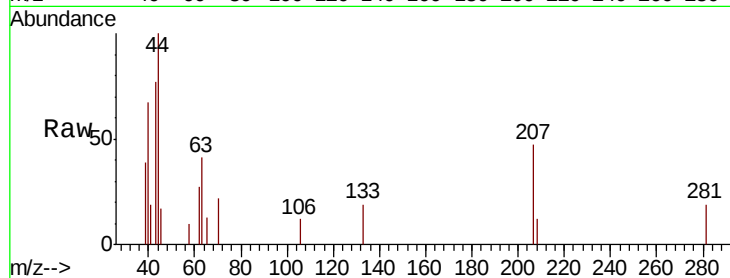




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 9.049 ug/l  
 RT: 9.92 min Scan# 1367  
 Delta R.T. -0.00 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

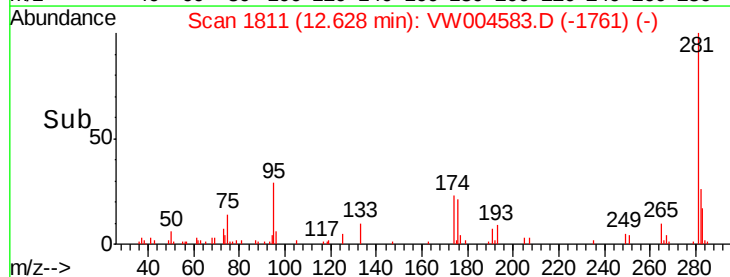
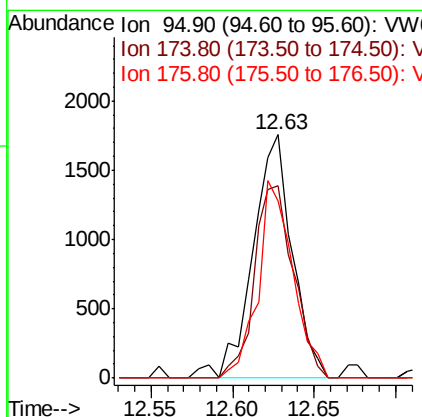
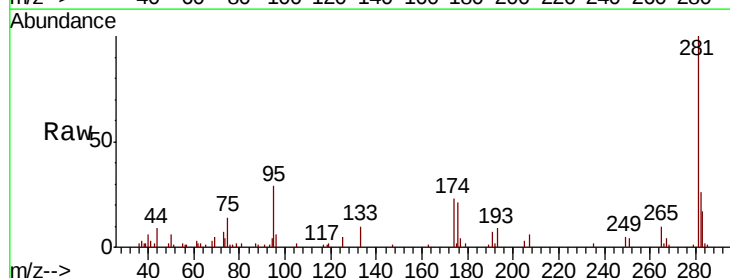
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 JTY-SB-03-5-7

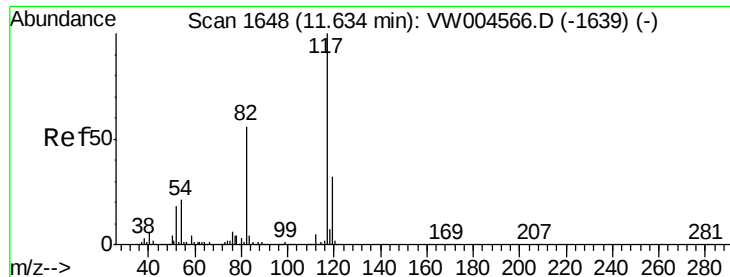
Tgt Ion: 63 Resp: 283  
 Ion Ratio Lower Upper  
 63 100  
 106 18.7 21.3 31.9#



#62  
 4-Bromofluorobenzene  
 Concen: 0.455 ug/l  
 RT: 12.63 min Scan# 1811  
 Delta R.T. 0.01 min  
 Lab File: VW004583.D  
 Acq: 10 Aug 2018 05:52

Tgt Ion: 95 Resp: 2947  
 Ion Ratio Lower Upper  
 95 100  
 174 78.8 0.0 160.4  
 176 71.9 0.0 153.2

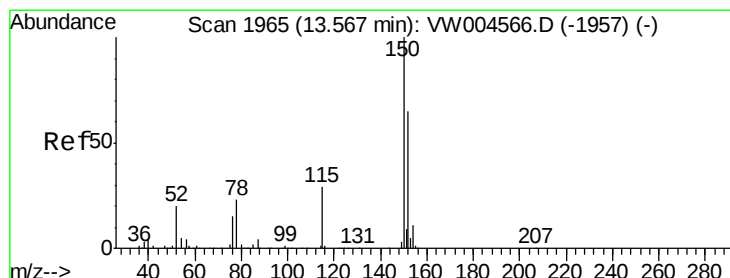
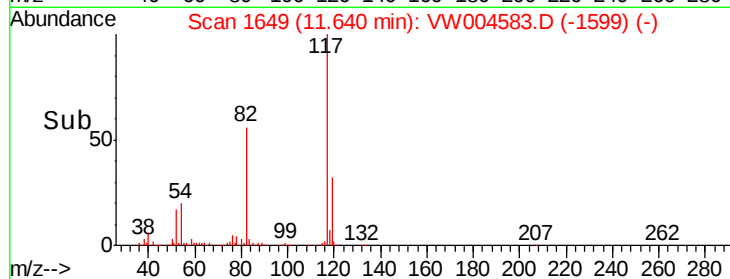
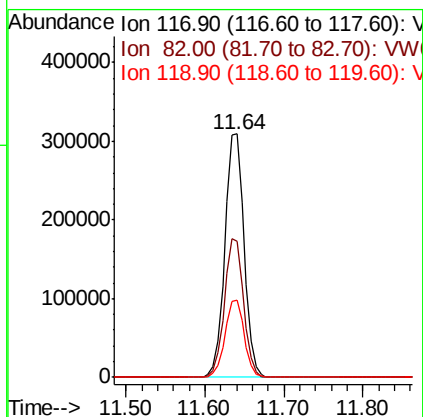
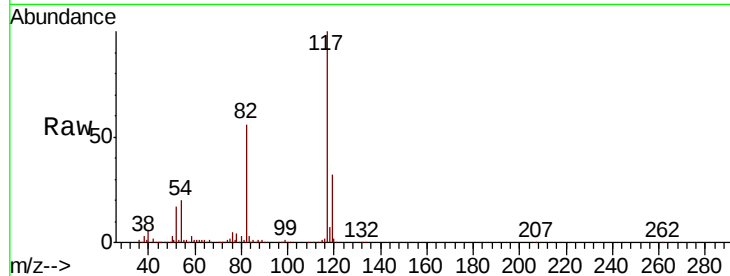




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1649  
Delta R.T. 0.01 min  
Lab File: VW004583.D  
Acq: 10 Aug 2018 05:52

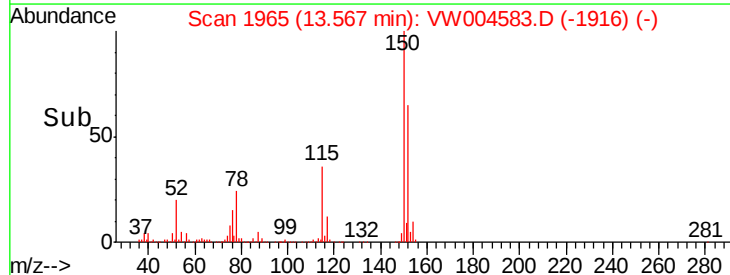
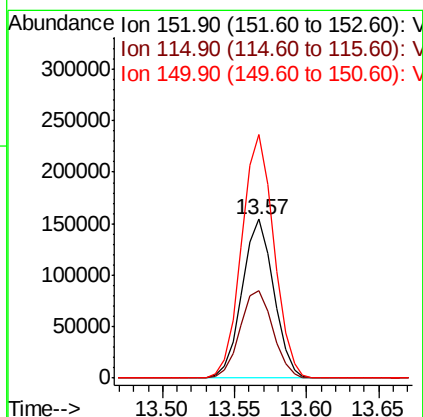
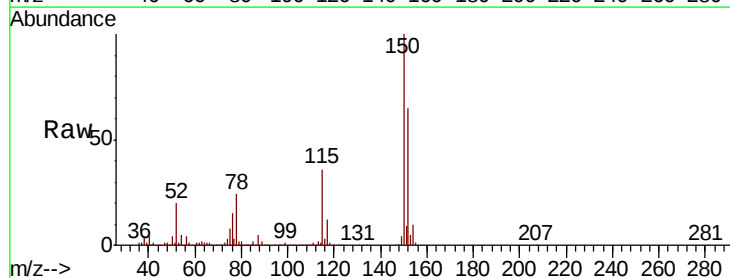
Instrument :  
MSVOA\_W  
ClientSampleId :  
JTY-SB-03-5-7

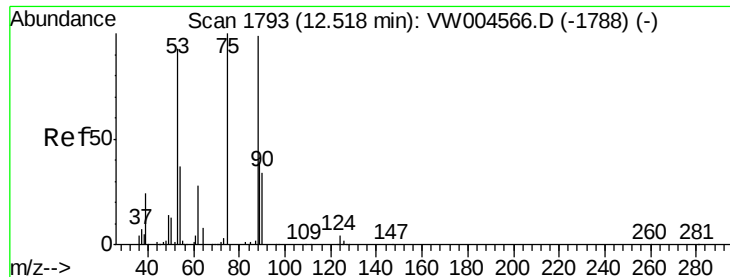
Tgt Ion:117 Resp: 522189  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.3 67.9  
119 31.7 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW004583.D  
Acq: 10 Aug 2018 05:52

Tgt Ion:152 Resp: 234932  
Ion Ratio Lower Upper  
152 100  
115 57.5 29.1 87.3  
150 156.3 0.0 349.6





#81

trans-1,4-Dichloro-2-butene

Concen: 1.389 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004583.D

Acq: 10 Aug 2018 05:52

Instrument :

MSVOA\_W

ClientSampleId :

JTY-SB-03-5-7

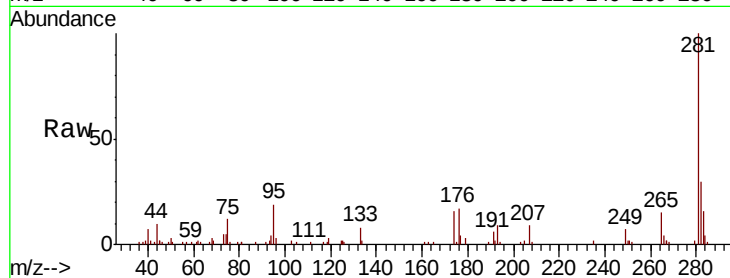
Tgt Ion: 75 Resp: 1411

Ion Ratio Lower Upper

75 100

53 3.3 74.4 111.6#

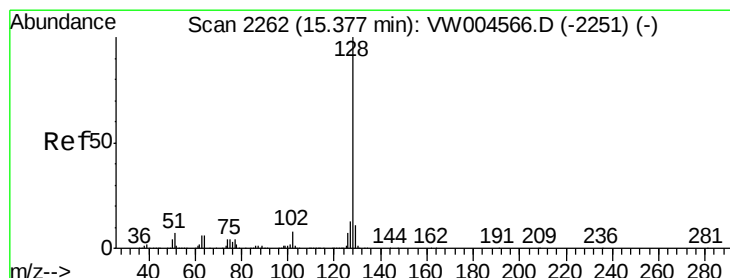
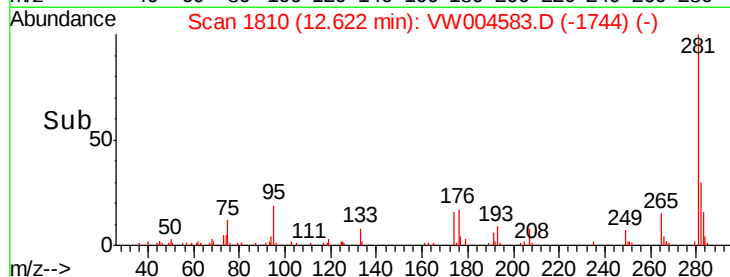
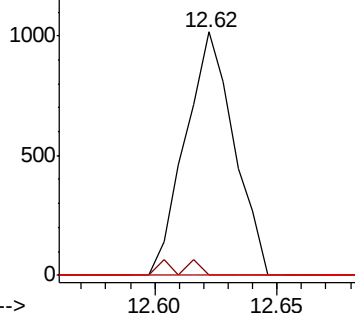
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 3.041 ug/l

RT: 15.38 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VW004583.D

Acq: 10 Aug 2018 05:52

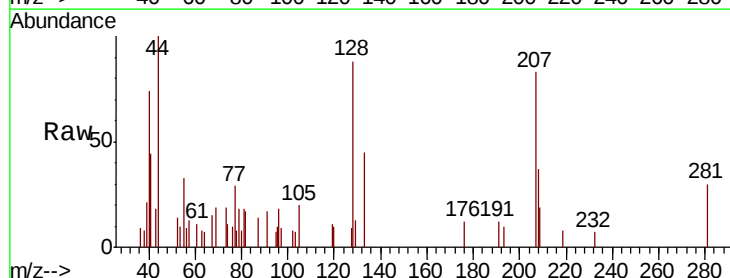
Tgt Ion: 128 Resp: 1409

Ion Ratio Lower Upper

128 100

127 15.9 10.3 15.5#

129 14.5 8.6 13.0#



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

