

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW090419\  
 Data File : VW012619.D  
 Acq On : 05 Sep 2019 05:16  
 Operator : SY/VA  
 Sample : K4547-11  
 Misc : 5.51G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T7-S-G1-(0)

Quant Time: Sep 05 07:05:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 256027   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 412326   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 360568   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 130157   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 169491   | 55.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.38% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 128868   | 52.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.72% |          |
| 50) Toluene-d8              | 10.32 | 98   | 520998   | 52.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.42% |          |
| 62) 4-Bromofluorobenzene    | 12.61 | 95   | 161141   | 45.81 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.62%  |          |

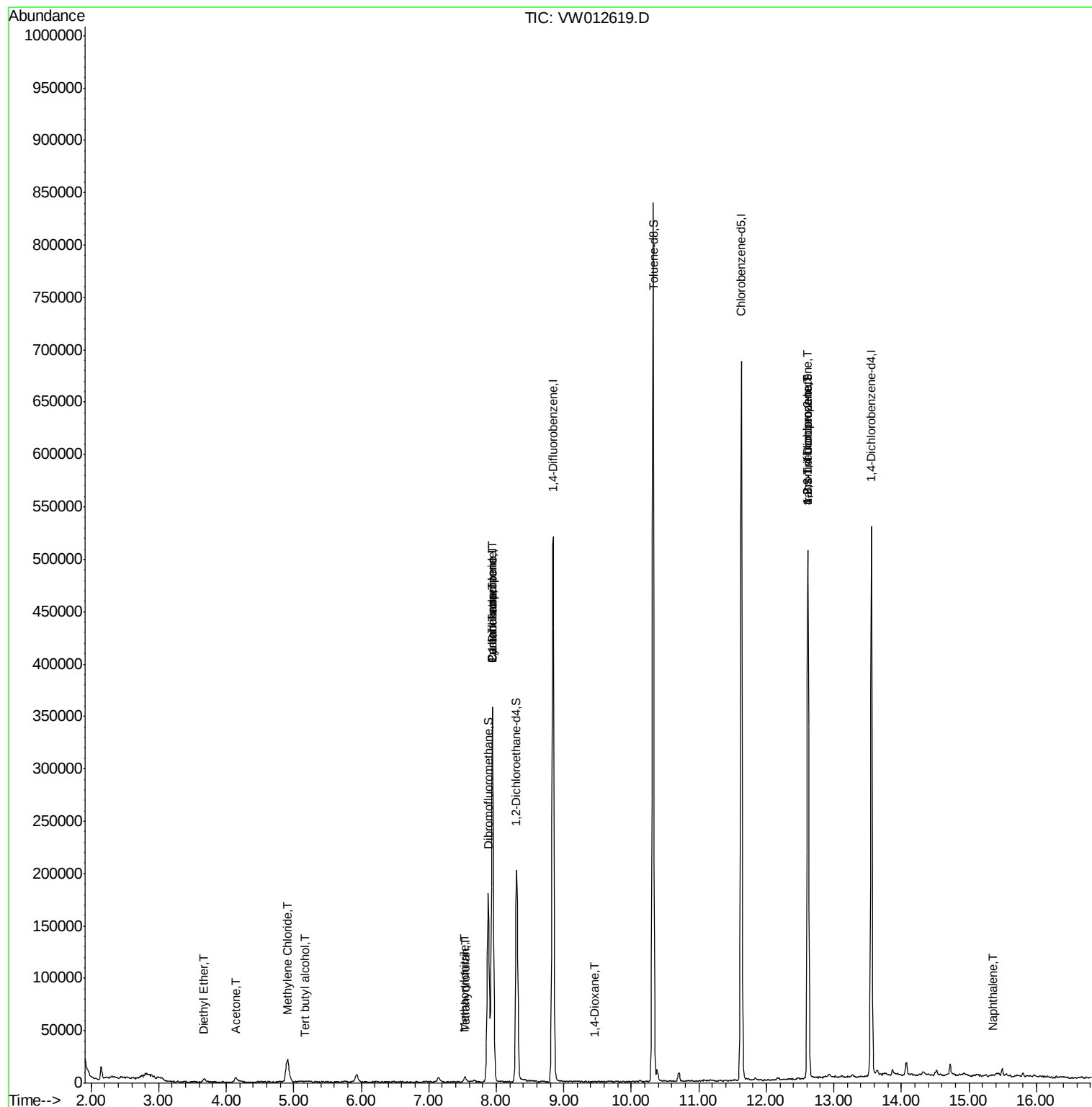
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 1498     | 1.051   | ug/l   | 77     |
| 11) Tert butyl alcohol         | 5.17  | 59   | 219      | 1.196   | ug/l # | 86     |
| 16) Acetone                    | 4.14  | 43   | 8160     | 10.489  | ug/l   | 98     |
| 20) Methylene Chloride         | 4.92  | 84   | 15902    | 5.407   | ug/l   | 88     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 3951     | 6.229   | ug/l # | 87     |
| 31) Cyclohexane                | 7.94  | 56   | 6205     | 1.132   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 21890    | 5.137   | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 25906    | 7.025   | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.54  | 41   | 2551     | 1.859   | ug/l # | 53     |
| 49) 1,4-Dioxane                | 9.46  | 88   | 40       | 1.875   | ug/l # | 4      |
| 76) 1,2,3-Trichloropropane     | 12.61 | 75   | 89452    | 70.566  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.61 | 75   | 89452    | 154.718 | ug/l # | 6      |
| 95) Naphthalene                | 15.36 | 128  | 676      | 4.447   | ug/l # | 70     |

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

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ClientSampleId :  
T7-S-G1-(0)

Quant Time: Sep 05 07:05:41 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012619.D

Acq: 05 Sep 2019 05:16

Instrument :

MSVOA\_W

ClientSampleId :

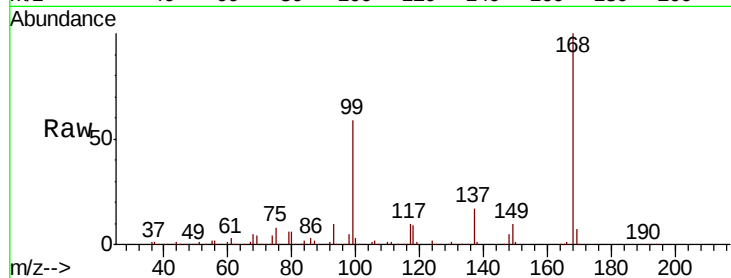
T7-S-G1-(0)

Tgt Ion:168 Resp: 256027

Ion Ratio Lower Upper

168 100

99 58.8 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

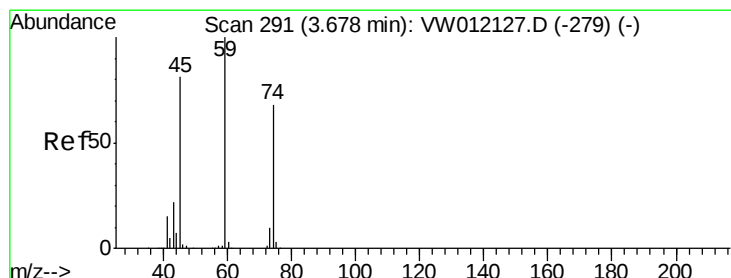
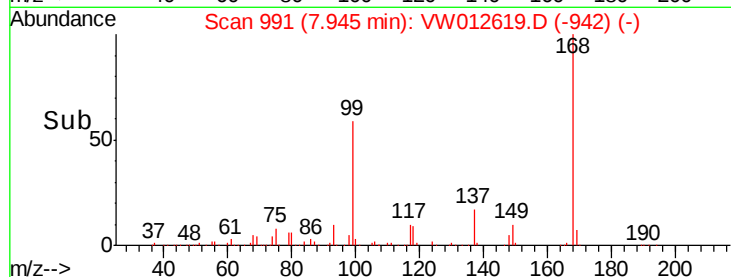
100000

50000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 1.051 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012619.D

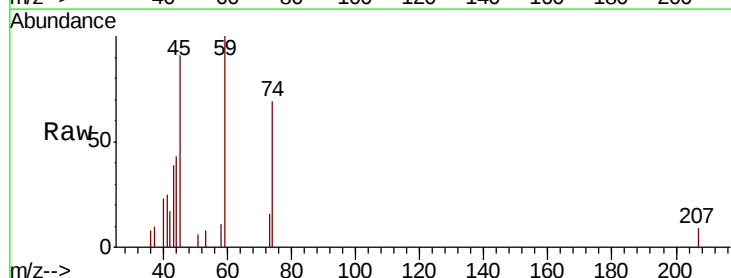
Acq: 05 Sep 2019 05:16

Tgt Ion: 74 Resp: 1498

Ion Ratio Lower Upper

74 100

45 143.8 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

800

600

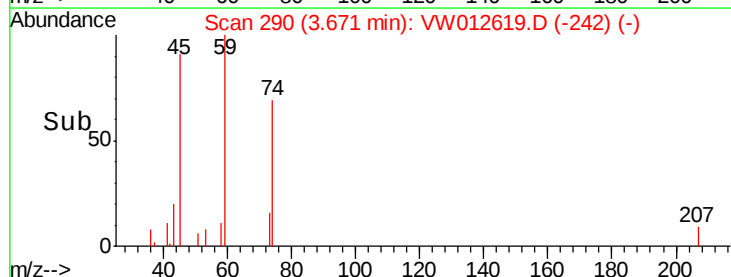
400

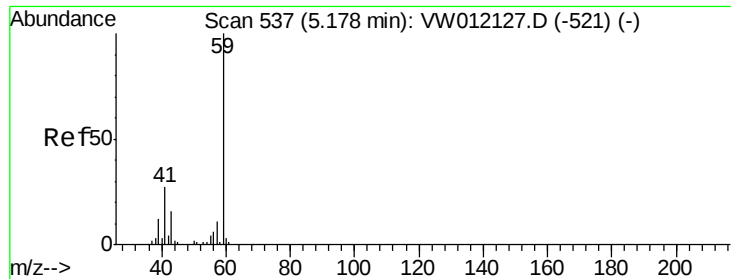
200

0

3.60 3.65 3.70 3.75

Time-->

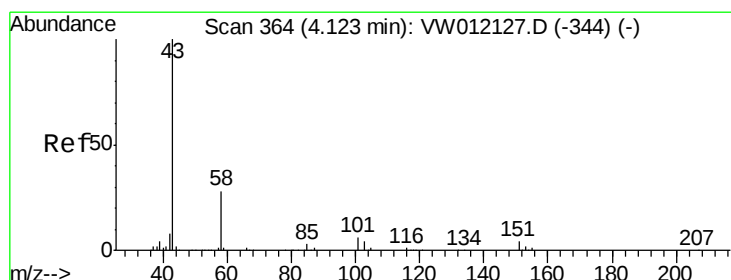
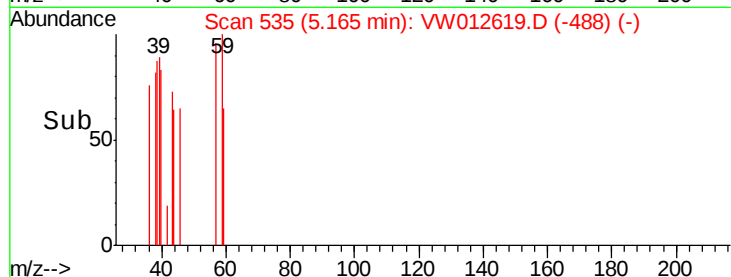
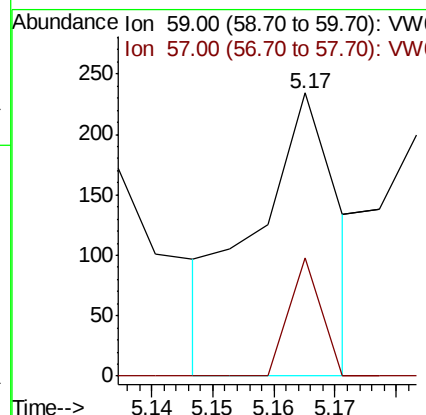
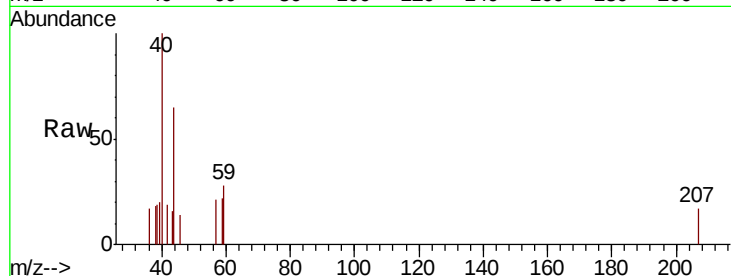




#11  
Tert butyl alcohol  
Concen: 1.196 ug/l  
RT: 5.17 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

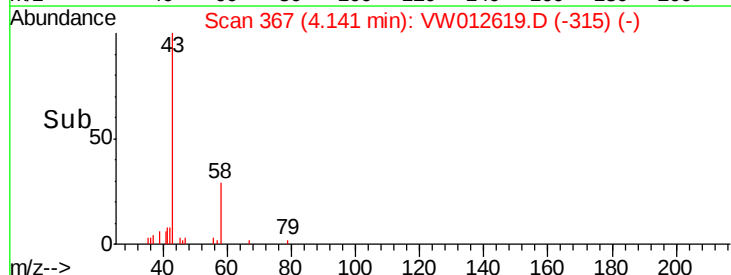
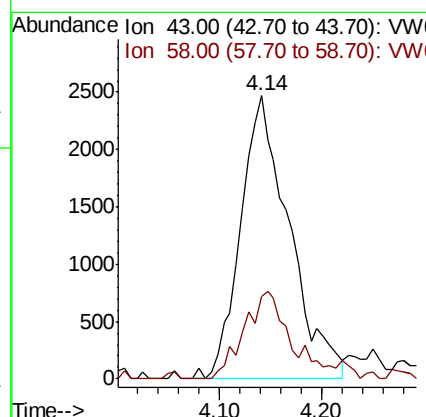
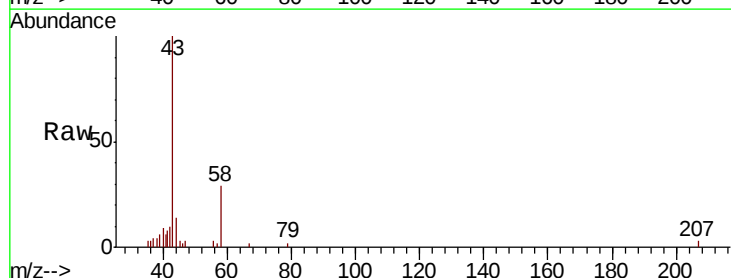
Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(0)

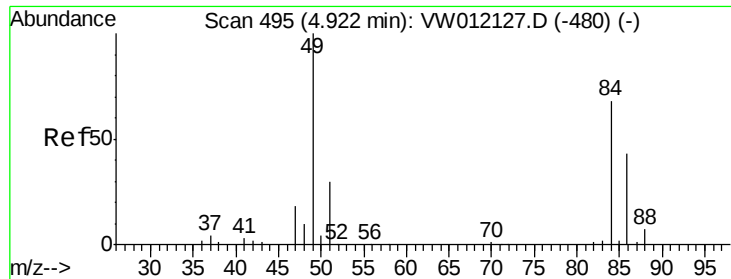
Tgt Ion: 59 Resp: 219  
Ion Ratio Lower Upper  
59 100  
57 16.4 9.0 13.4#



#16  
Acetone  
Concen: 10.489 ug/l  
RT: 4.14 min Scan# 367  
Delta R.T. 0.02 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

Tgt Ion: 43 Resp: 8160  
Ion Ratio Lower Upper  
43 100  
58 29.0 22.4 33.6

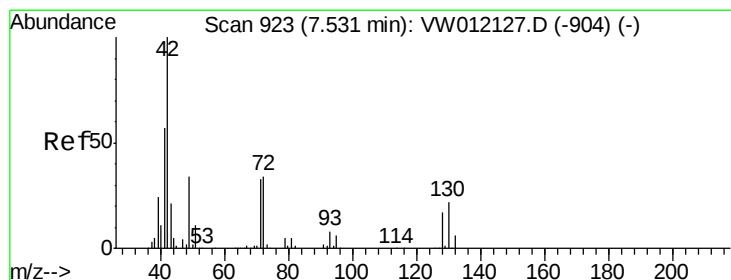
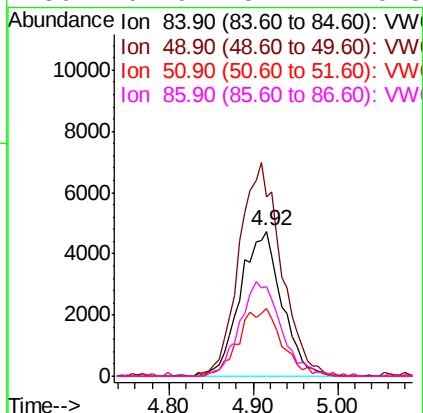
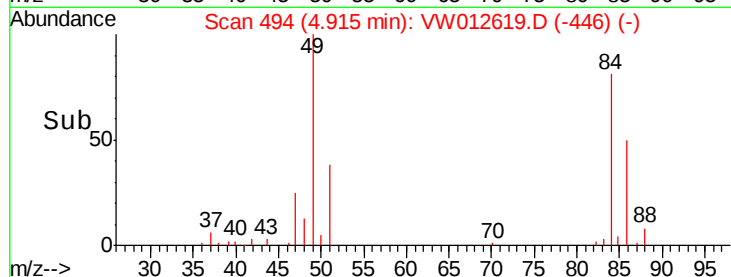
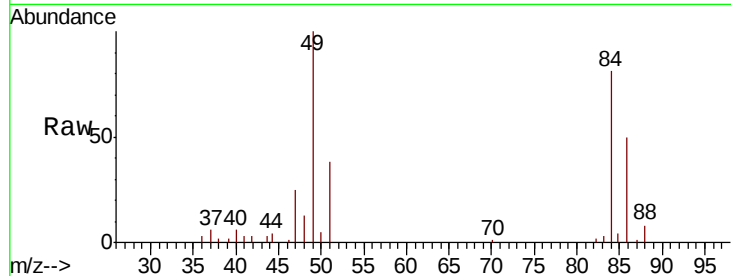




#20  
Methylene Chloride  
Concen: 5.407 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

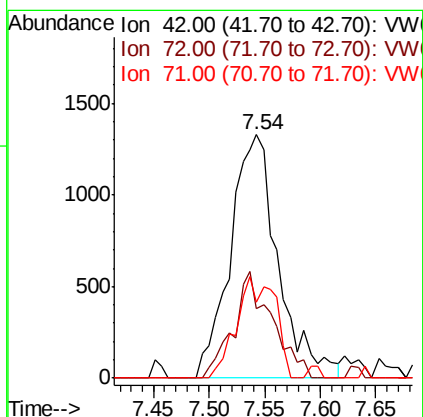
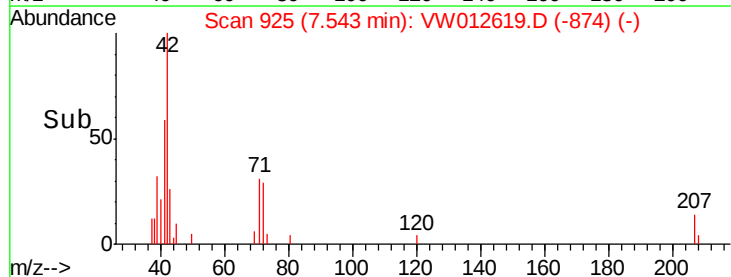
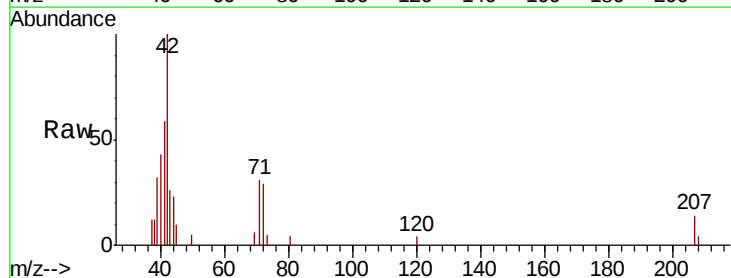
Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(0)

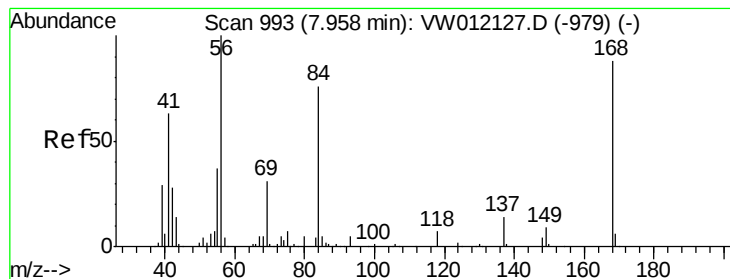
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 15902 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 123.8 | 117.8 | 176.8 |
| 51       | 46.6  | 35.6  | 53.4  |
| 86       | 61.9  | 51.2  | 76.8  |



#29  
Tetrahydrofuran  
Concen: 6.229 ug/l  
RT: 7.54 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 3951  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 35.7  | 27.3  | 40.9  |
| 71       | 19.1  | 25.5  | 38.3# |





#31

Cyclohexane

Concen: 1.132 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012619.D

Acq: 05 Sep 2019 05:16

Instrument :

MSVOA\_W

ClientSampleId :

T7-S-G1-(0)

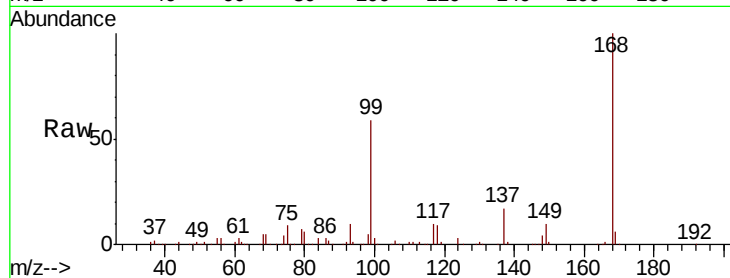
Tgt Ion: 56 Resp: 6205

Ion Ratio Lower Upper

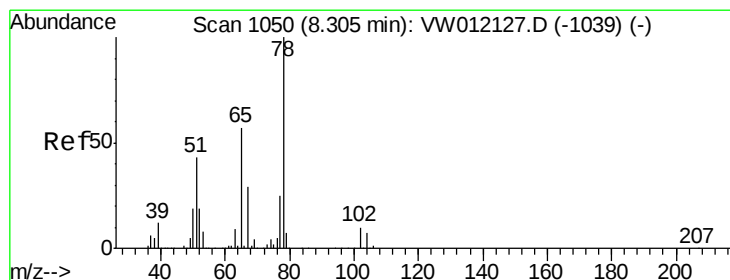
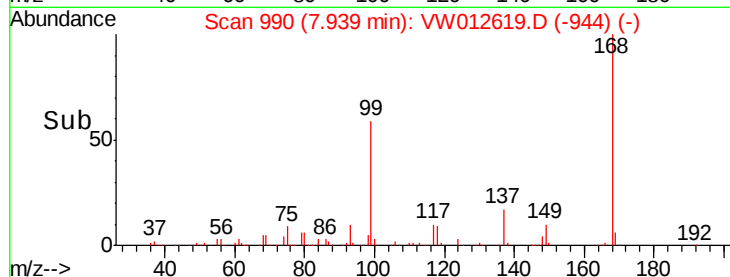
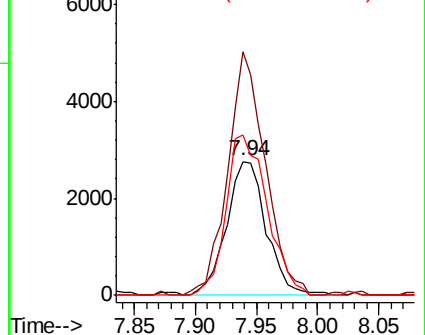
56 100

69 180.1 24.9 37.3#

84 119.6 60.6 90.8#



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



#33

1,2-Dichloroethane-d4

Concen: 55.689 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW012619.D

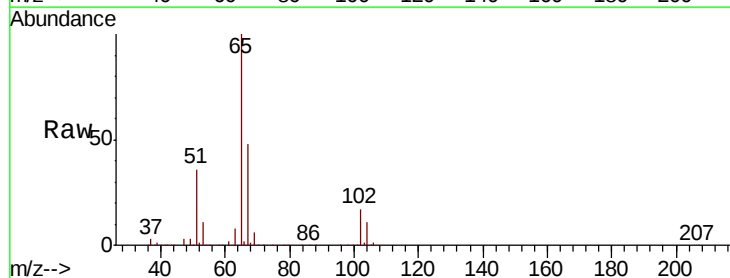
Acq: 05 Sep 2019 05:16

Tgt Ion: 65 Resp: 169491

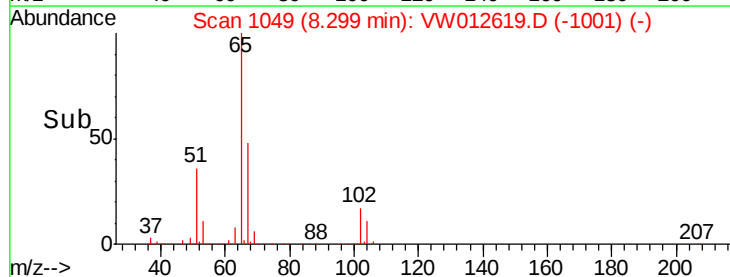
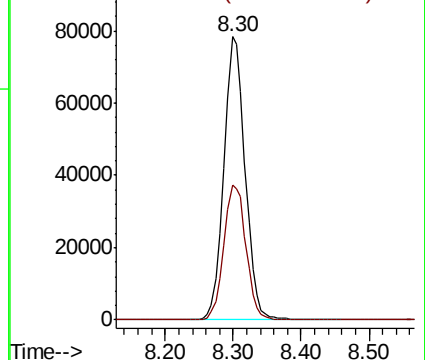
Ion Ratio Lower Upper

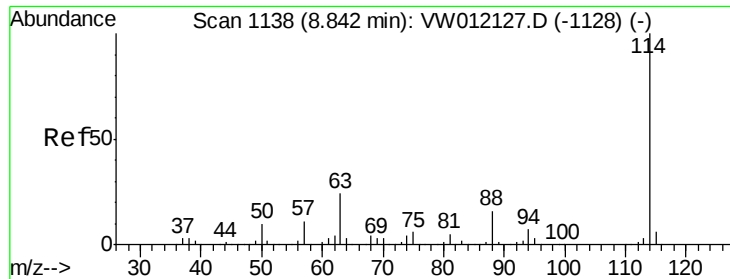
65 100

67 49.8 0.0 102.6



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

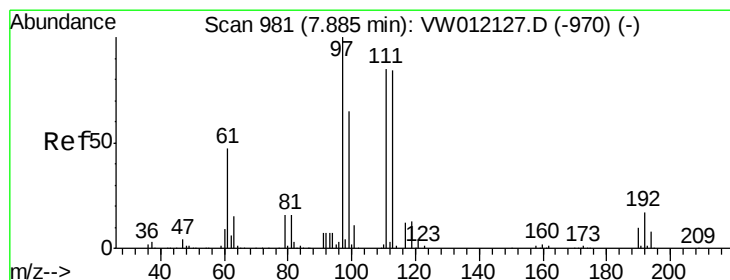
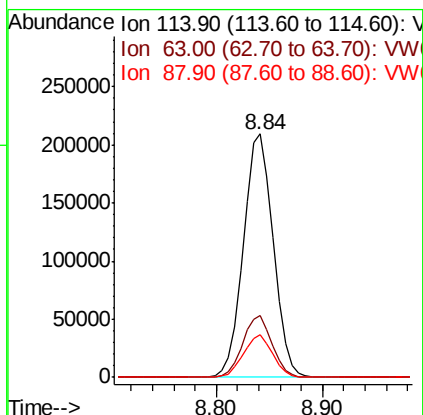
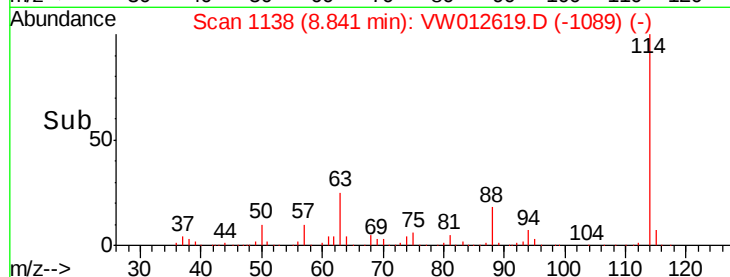
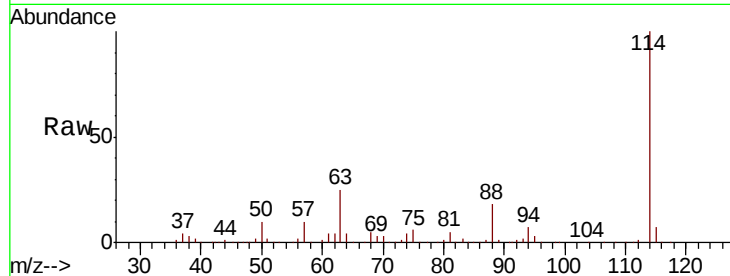




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012619.D  
 Acq: 05 Sep 2019 05:16

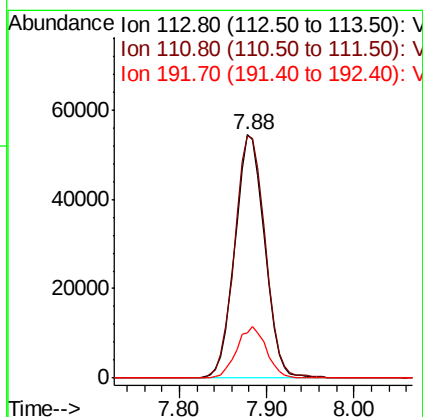
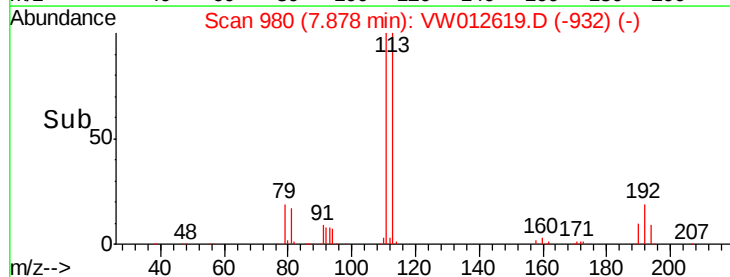
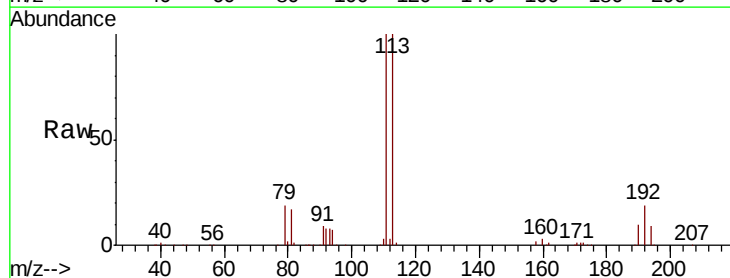
Instrument :  
 MSVOA\_W  
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 T7-S-G1-(0)

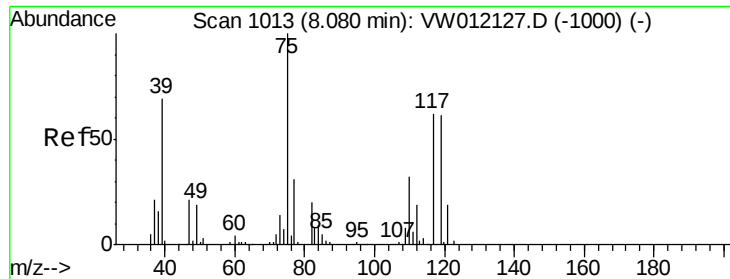
Tgt Ion:114 Resp: 412326  
 Ion Ratio Lower Upper  
 114 100  
 63 25.3 0.0 48.6  
 88 17.5 0.0 32.2



#35  
 Dibromofluoromethane  
 Concen: 52.360 ug/l  
 RT: 7.88 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: VW012619.D  
 Acq: 05 Sep 2019 05:16

Tgt Ion:113 Resp: 128868  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.7 124.1  
 192 20.9 16.2 24.2

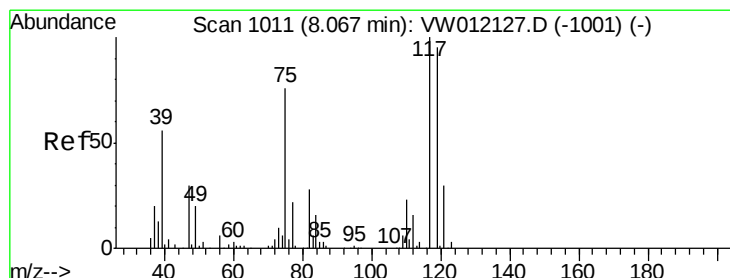
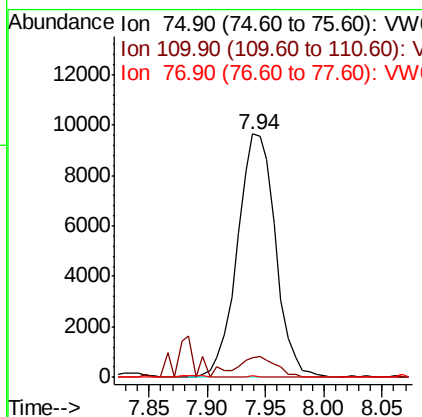
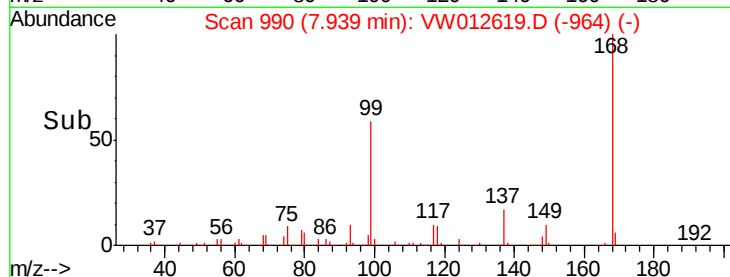
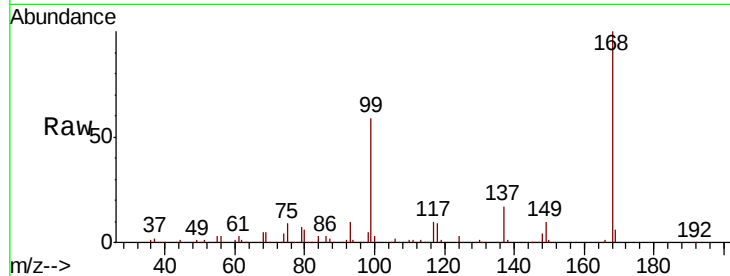




#36  
 1,1-Dichloropropene  
 Concen: 5.137 ug/l  
 RT: 7.94 min Scan# 990  
 Delta R.T. -0.14 min  
 Lab File: VW012619.D  
 Acq: 05 Sep 2019 05:16

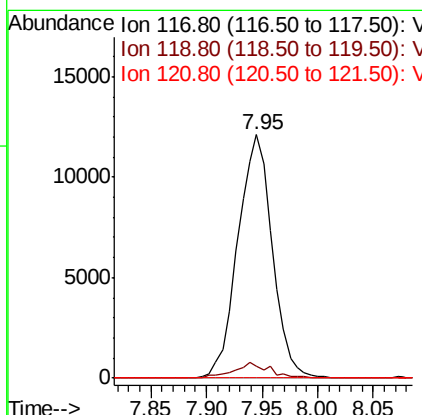
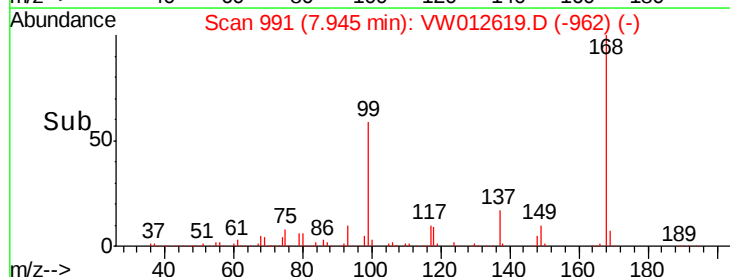
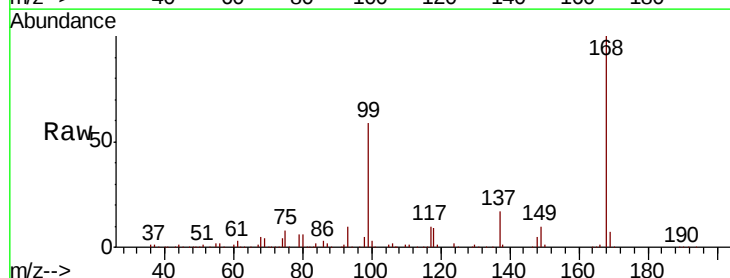
Instrument :  
 MSVOA\_W  
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 T7-S-G1-(0)

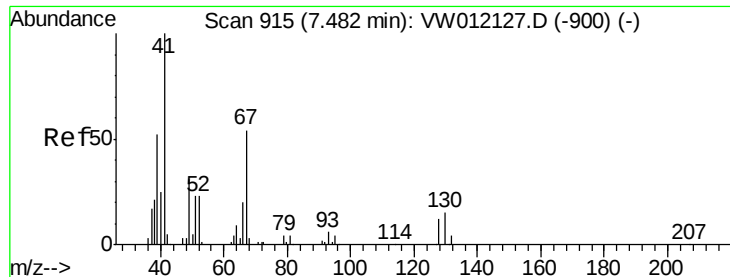
Tgt Ion: 75 Resp: 21890  
 Ion Ratio Lower Upper  
 75 100  
 110 8.1 15.6 46.8#  
 77 0.1 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 7.025 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW012619.D  
 Acq: 05 Sep 2019 05:16

Tgt Ion: 117 Resp: 25906  
 Ion Ratio Lower Upper  
 117 100  
 119 5.1 76.2 114.2#  
 121 0.0 23.8 35.8#

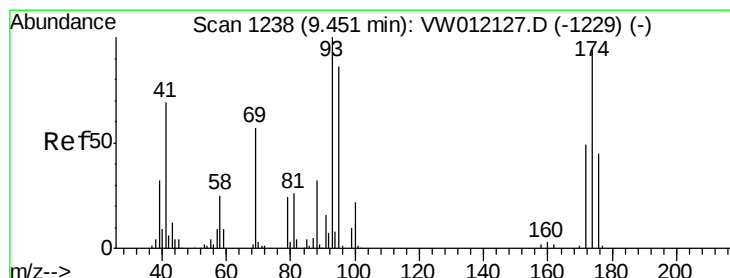
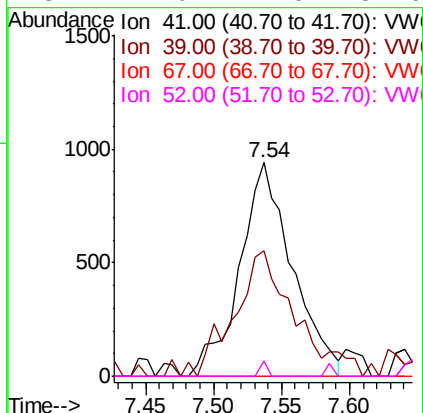
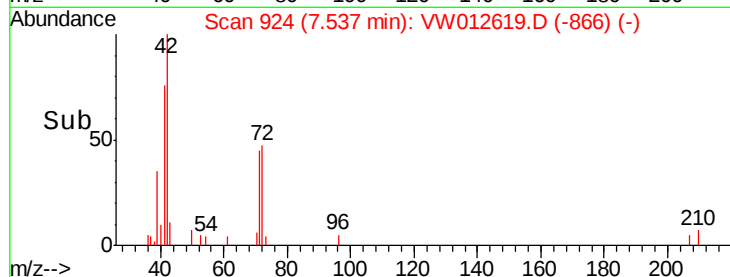
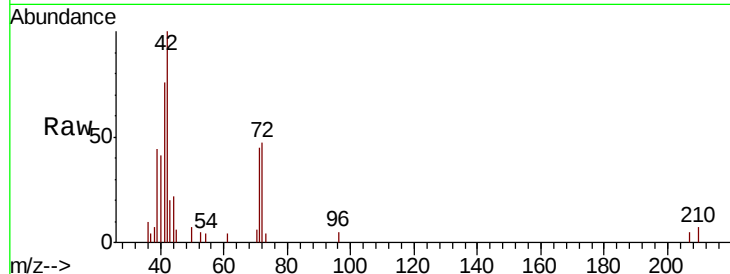




#41  
Methacrylonitrile  
Concen: 1.859 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.05 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

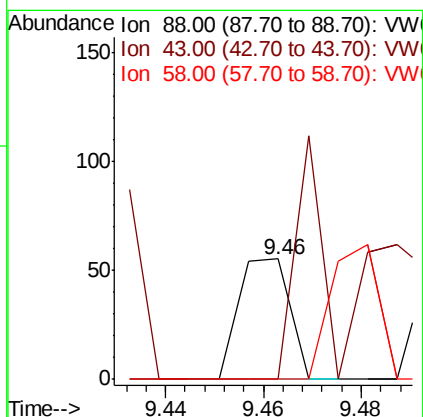
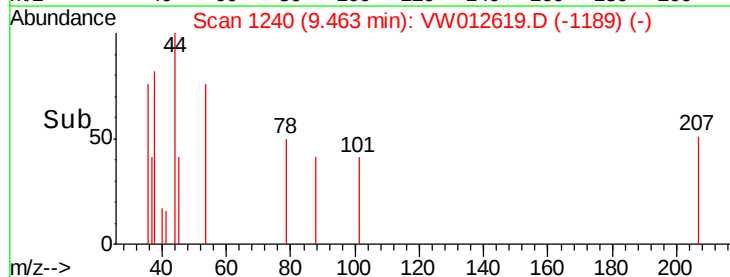
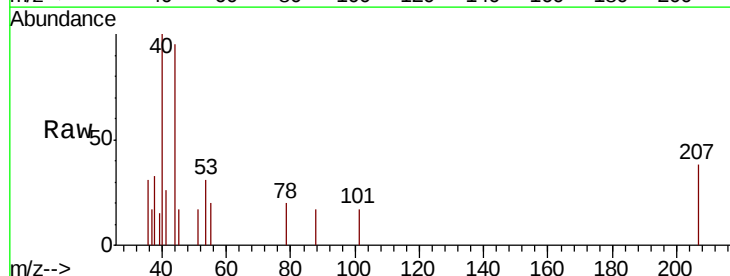
Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(0)

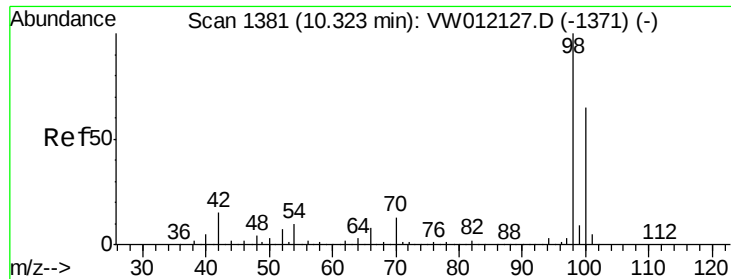
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 2551  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 67.6  | 45.8  | 68.8  |
| 67       | 0.0   | 46.2  | 69.4# |
| 52       | 1.0   | 21.0  | 31.6# |



#49  
1,4-Dioxane  
Concen: 1.875 ug/l  
RT: 9.46 min Scan# 1240  
Delta R.T. 0.01 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 88    | Resp: | 40     |
| Ion      | Ratio | Lower | Upper  |
| 88       | 100   |       |        |
| 43       | 102.5 | 32.9  | 49.3#  |
| 58       | 0.0   | 71.0  | 106.4# |

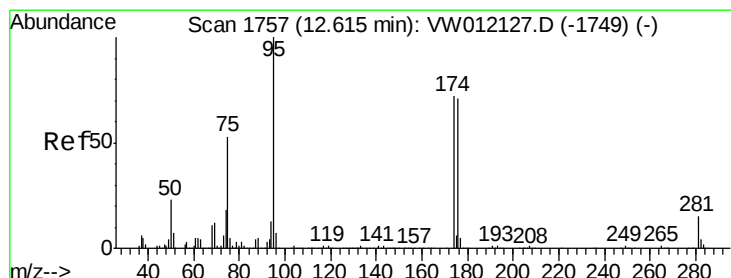
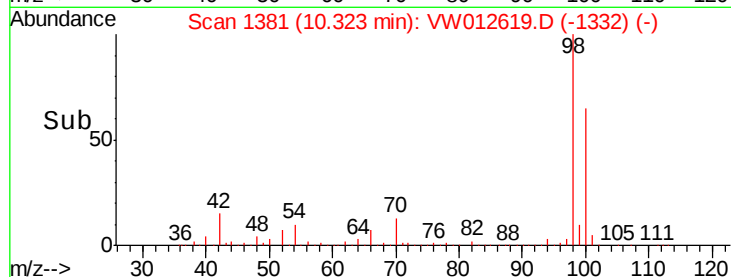
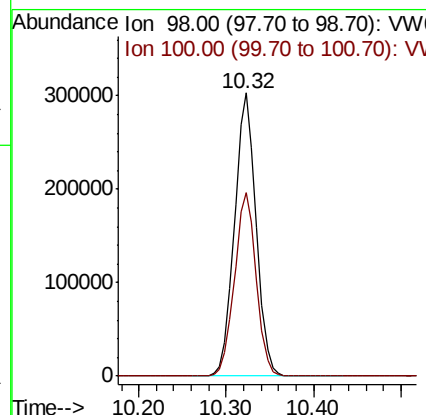
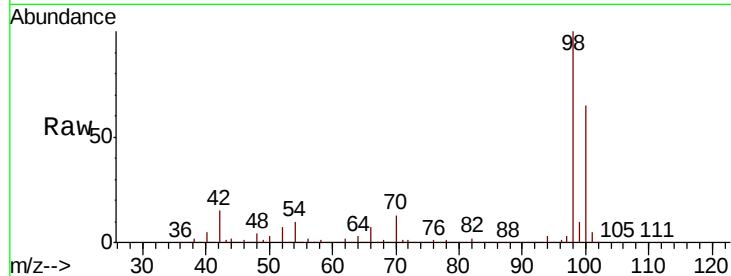




#50  
Toluene-d8  
Concen: 52.207 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

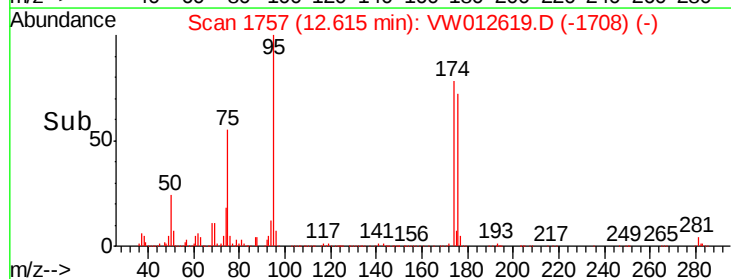
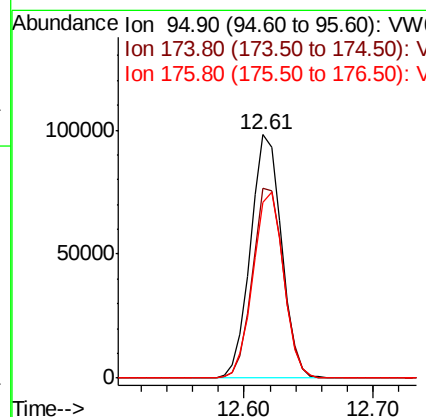
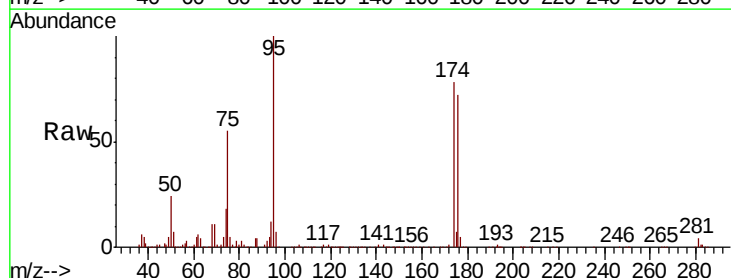
Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(0)

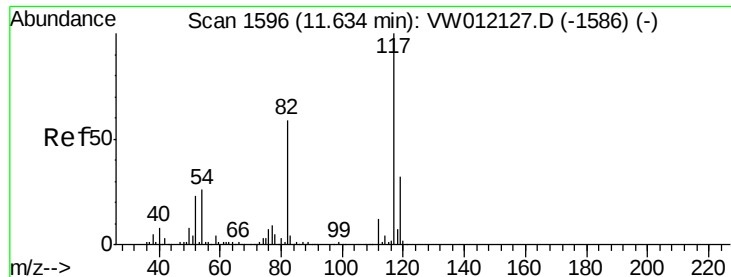
Tgt Ion: 98 Resp: 520998  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 45.808 ug/l  
RT: 12.61 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

Tgt Ion: 95 Resp: 161141  
Ion Ratio Lower Upper  
95 100  
174 78.7 0.0 150.8  
176 76.1 0.0 148.6

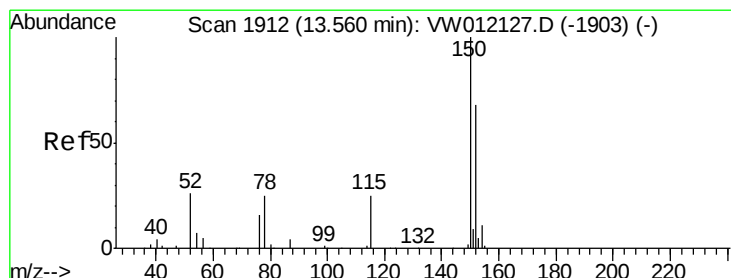
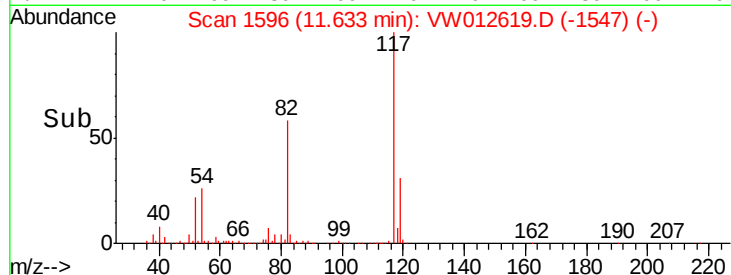
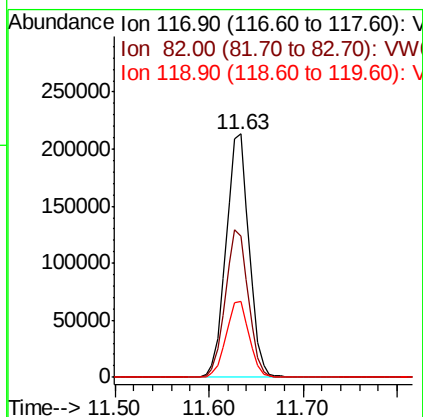
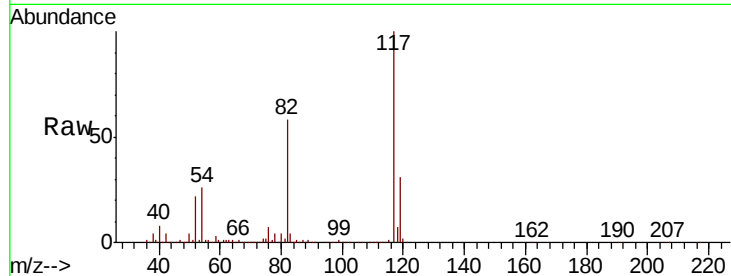




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

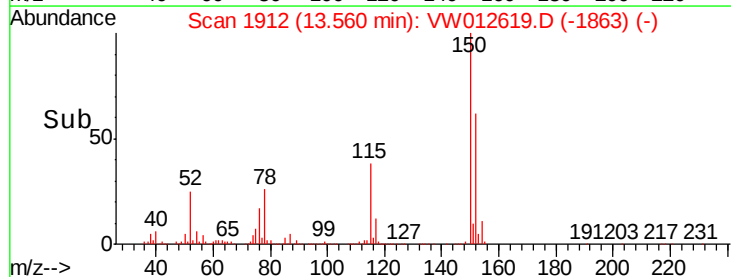
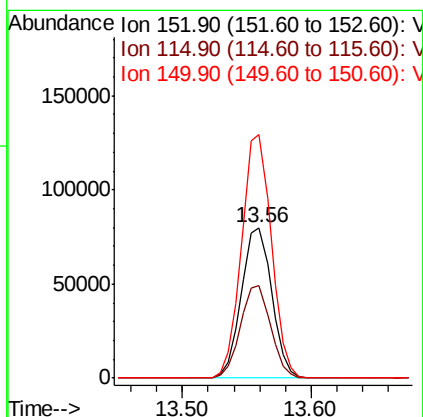
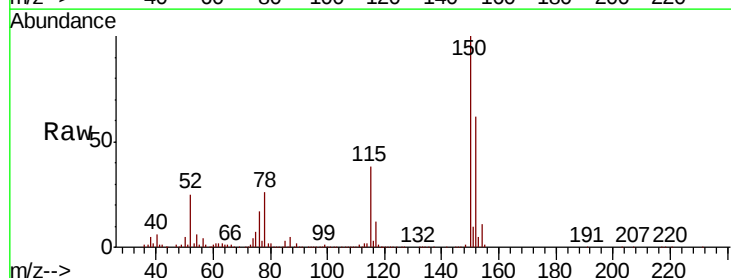
Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(0)

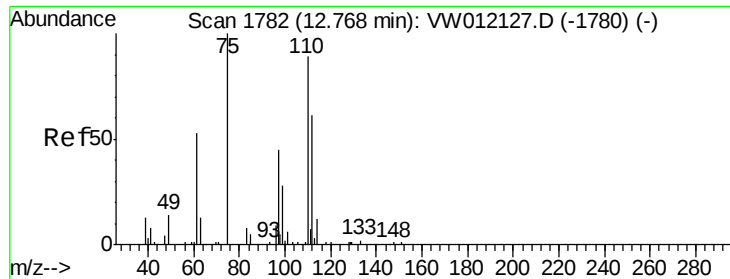
Tgt Ion:117 Resp: 360568  
Ion Ratio Lower Upper  
117 100  
82 58.0 47.4 71.2  
119 31.1 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012619.D  
Acq: 05 Sep 2019 05:16

Tgt Ion:152 Resp: 130157  
Ion Ratio Lower Upper  
152 100  
115 61.2 30.1 90.3  
150 159.0 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 70.566 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012619.D

Acq: 05 Sep 2019 05:16

Instrument :

MSVOA\_W

ClientSampleId :

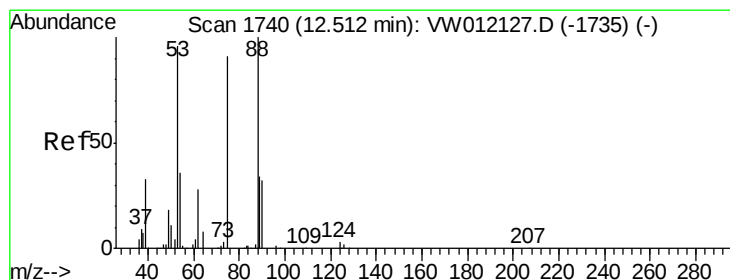
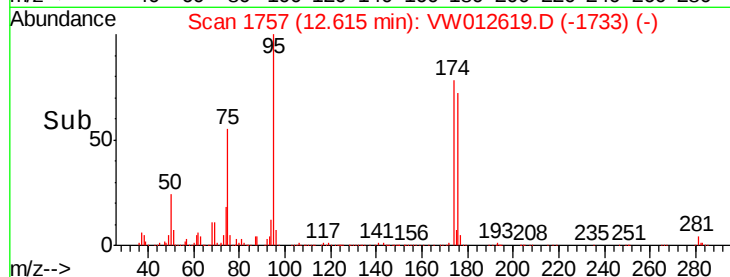
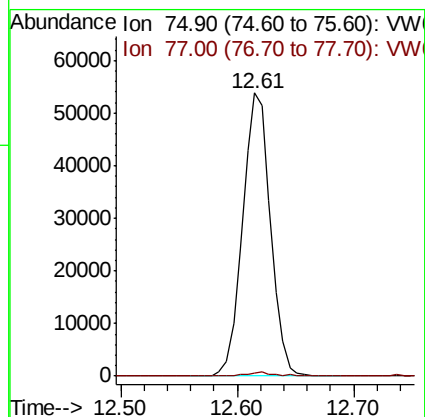
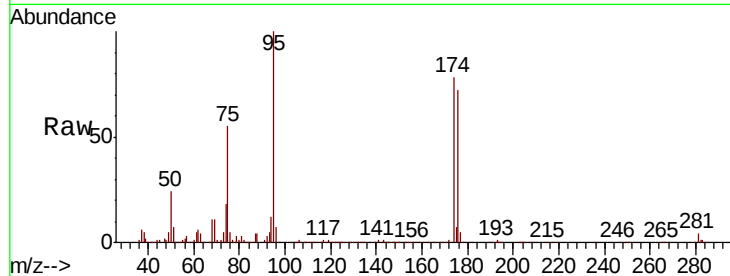
T7-S-G1-(0)

Tgt Ion: 75 Resp: 89452

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 154.718 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012619.D

Acq: 05 Sep 2019 05:16

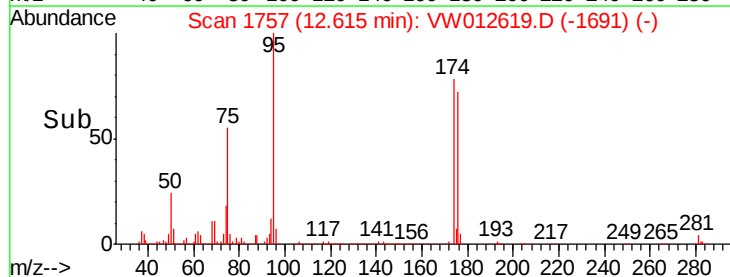
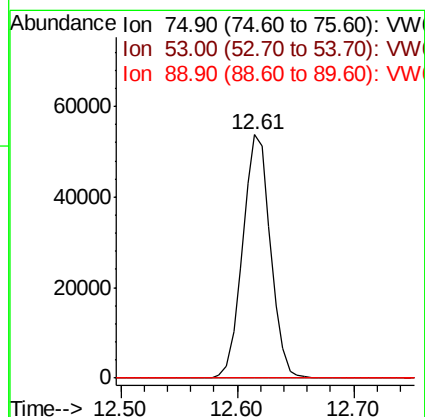
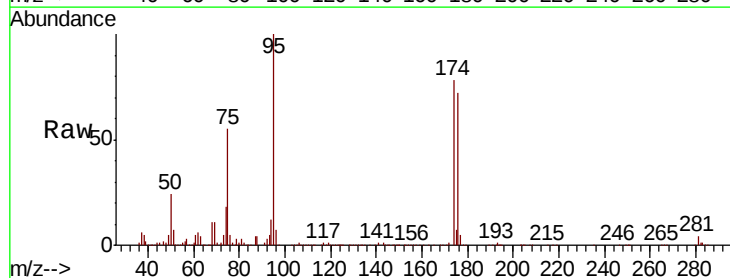
Tgt Ion: 75 Resp: 89452

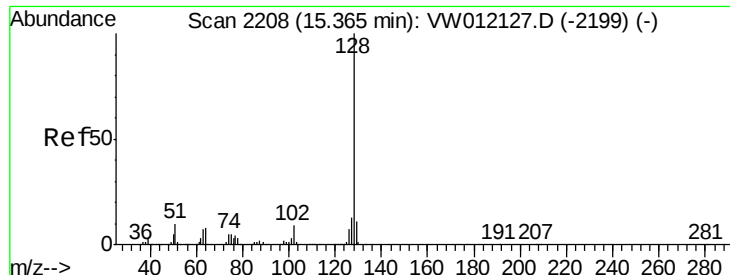
Ion Ratio Lower Upper

75 100

53 0.3 89.4 134.0#

89 0.1 34.5 51.7#





#95

Naphthalene

Concen: 4.447 ug/l

RT: 15.36 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VW012619.D

Acq: 05 Sep 2019 05:16

Instrument :

MSVOA\_W

ClientSampleId :

T7-S-G1-(0)

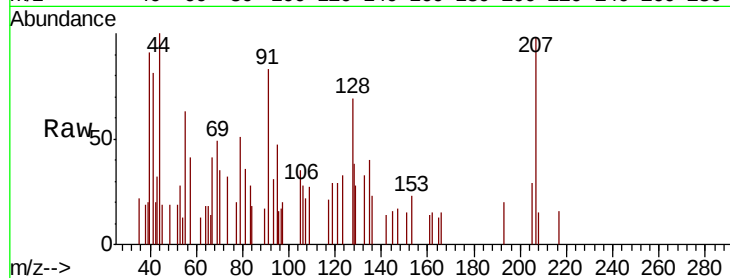
Tgt Ion:128 Resp: 676

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 20.9 8.7 13.1#



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

