

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100819\  
 Data File : VX012908.D  
 Acq On : 08 Oct 2019 23:39  
 Operator : JC/SP  
 Sample : K5232-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA19-GMZ1CSS-TB1

Quant Time: Oct 09 03:46:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 09 01:51:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 178205   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 300312   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 252548   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 97218    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 115795   | 51.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.98% |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 88959    | 51.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.22% |      |
| 50) Toluene-d8              | 8.71   | 98  | 355430   | 52.87 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.74% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 118201   | 45.25 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.50%  |      |

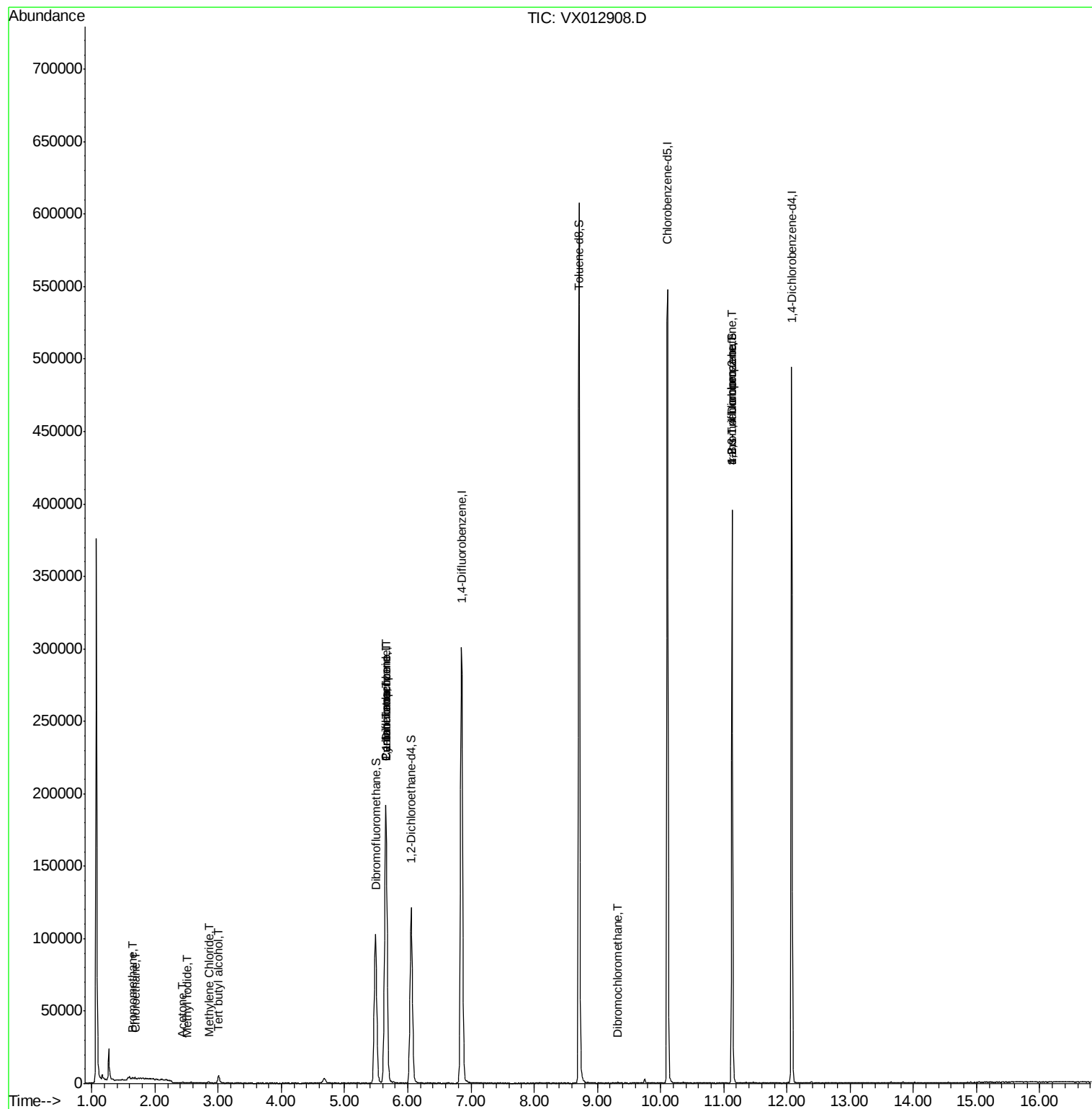
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 567      | 0.668  | ug/l # | 67     |
| 6) Chloroethane                | 1.69  | 64   | 216      | 0.540  | ug/l # | 43     |
| 10) Methyl Iodide              | 2.51  | 142  | 310      | 5.220  | ug/l # | 69     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 3090     | 5.233  | ug/l # | 72     |
| 16) Acetone                    | 2.44  | 43   | 380      | 0.324  | ug/l # | 13     |
| 20) Methylene Chloride         | 2.84  | 84   | 551      | 0.255  | ug/l # | 59     |
| 31) Cyclohexane                | 5.65  | 56   | 3721     | 1.151  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 14355    | 5.437  | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18971    | 7.382  | ug/l # | 19     |
| 60) Dibromochloromethane       | 9.33  | 129  | 90       | 1.896  | ug/l # | 10     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 58860    | 27.297 | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 58860    | 68.544 | ug/l # | 10     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 09 01:51:23 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX012908.D

Acq: 08 Oct 2019 23:39

Instrument :

MSVOA\_X

ClientSampleId :

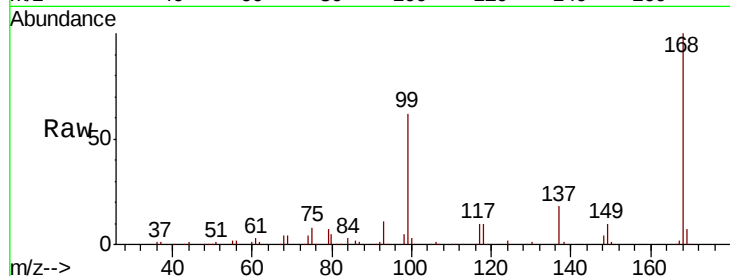
FA19-GMZ1CSS-TB1

Tot Ion:168 Resp: 178205

Ion Ratio Lower Upper

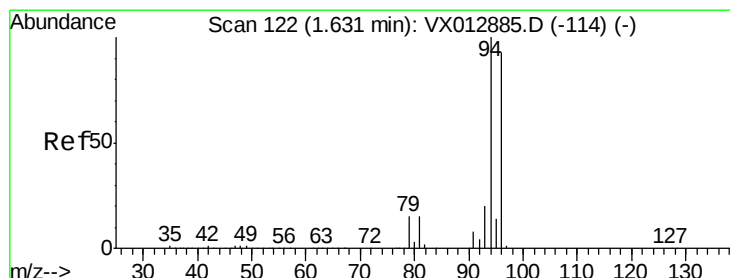
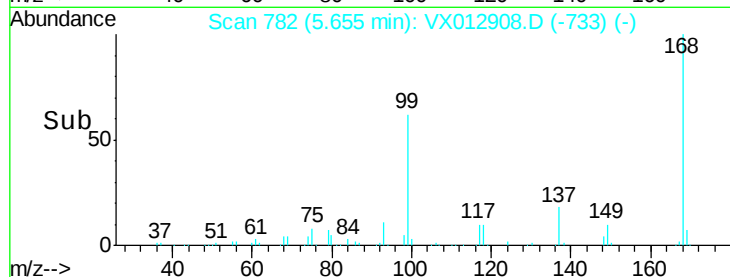
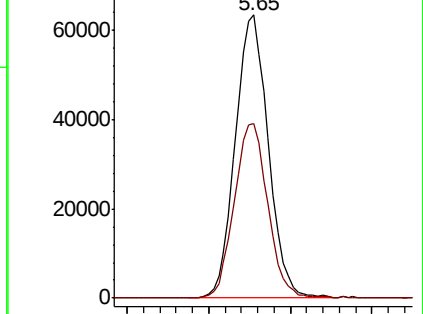
168 100

99 61.6 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.668 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX012908.D

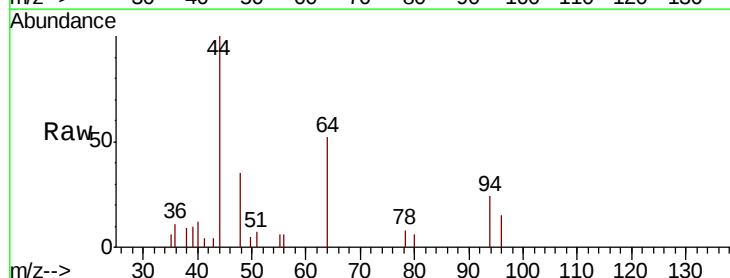
Acq: 08 Oct 2019 23:39

Tgt Ion: 94 Resp: 567

Ion Ratio Lower Upper

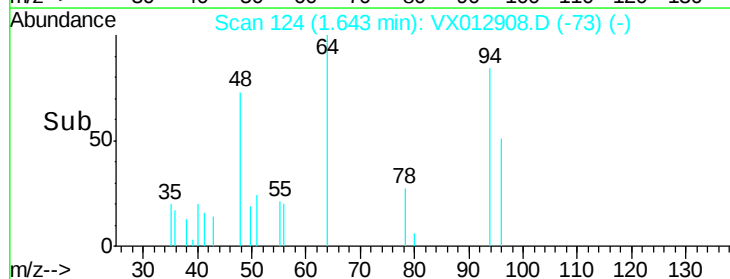
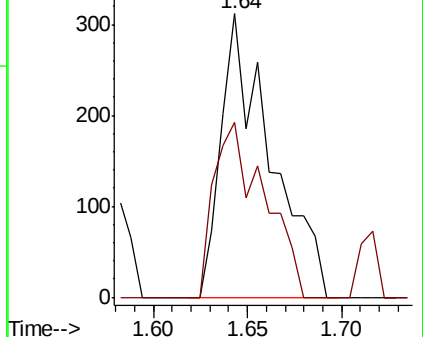
94 100

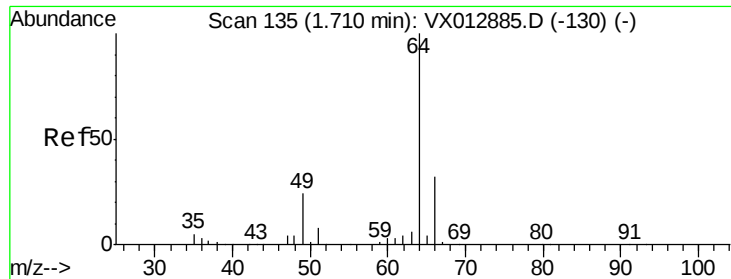
96 61.5 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.540 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX012908.D

Acq: 08 Oct 2019 23:39

Instrument :

MSVOA\_X

ClientSampleId :

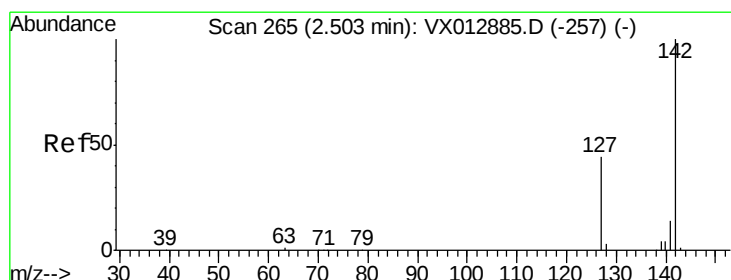
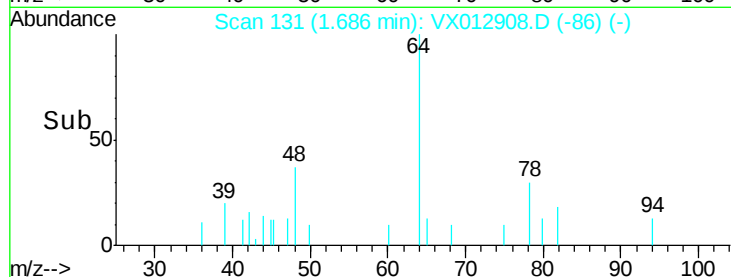
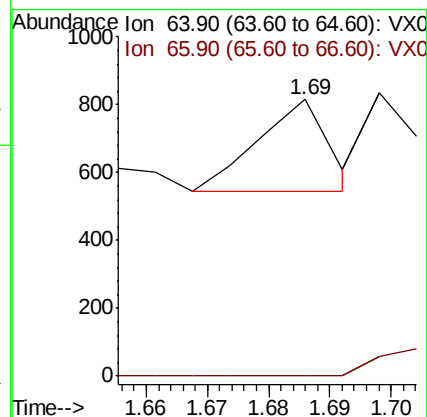
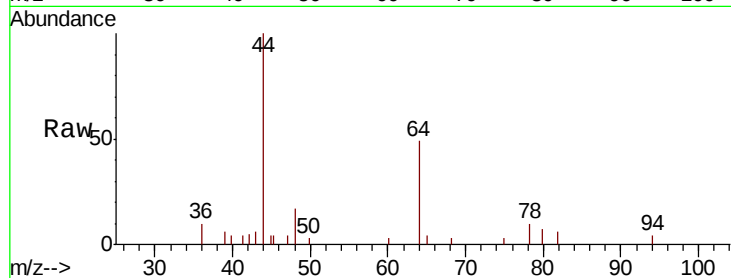
FA19-GMZ1CSS-TB1

Tot Ion: 64 Resp: 216

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.220 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012908.D

Acq: 08 Oct 2019 23:39

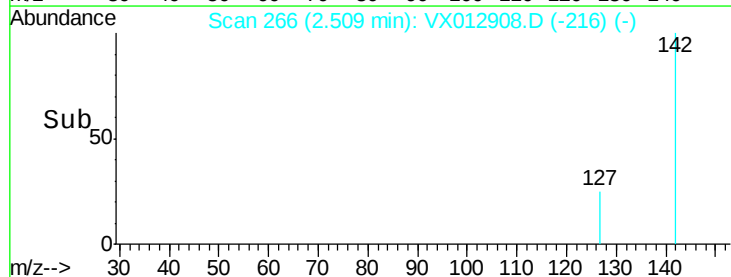
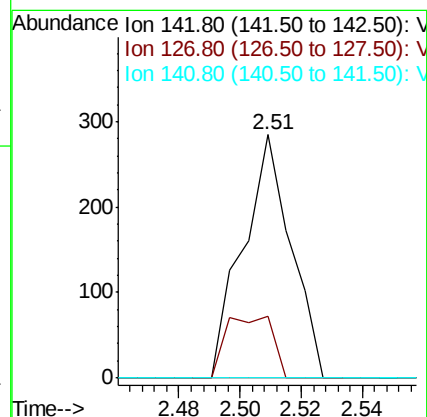
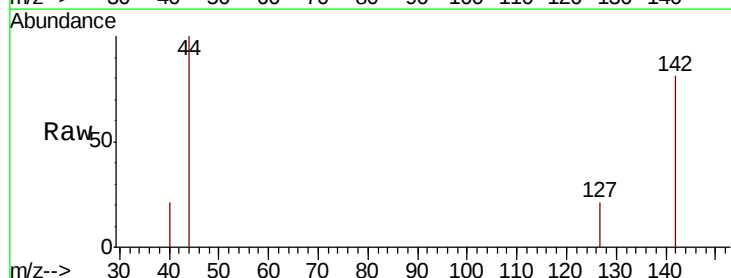
Tgt Ion: 142 Resp: 310

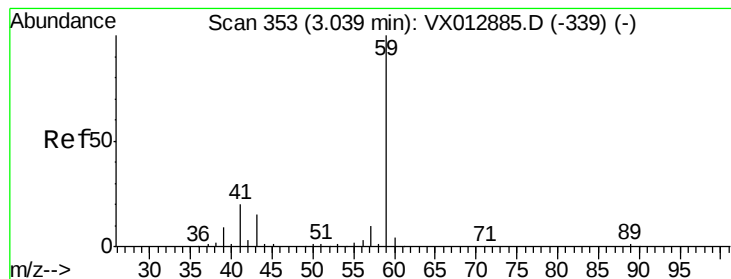
Ion Ratio Lower Upper

142 100

127 24.5 34.9 52.3#

141 0.0 11.6 17.4#



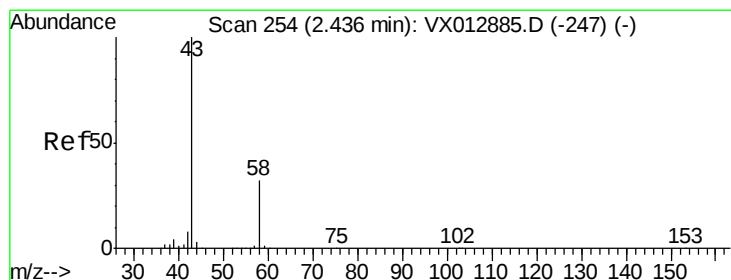
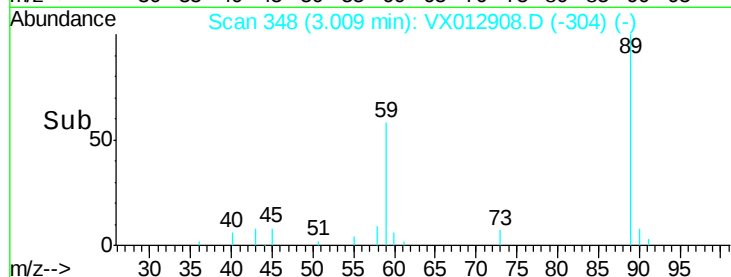
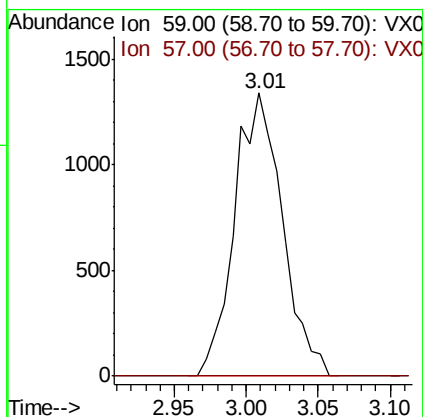
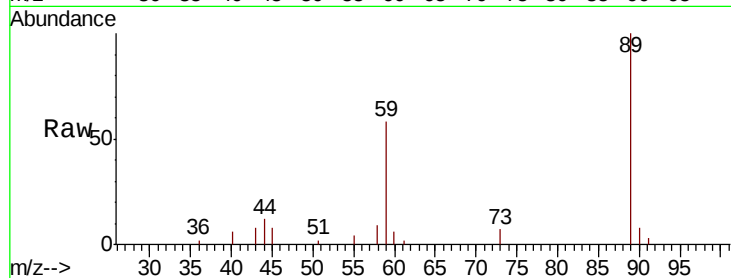


#11

Tert butyl alcohol  
 Concen: 5.233 ug/l  
 RT: 3.01 min Scan# 348  
 Delta R.T. -0.03 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA19-GMZ1CSS-TB1

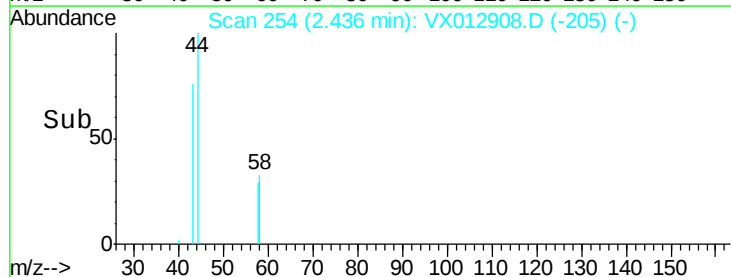
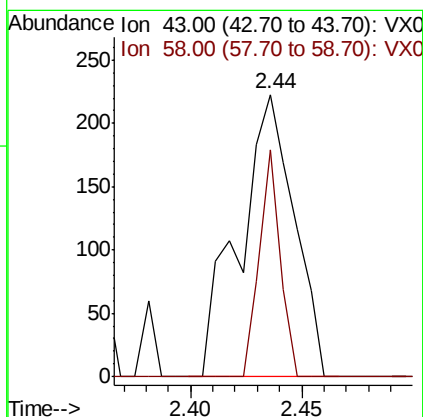
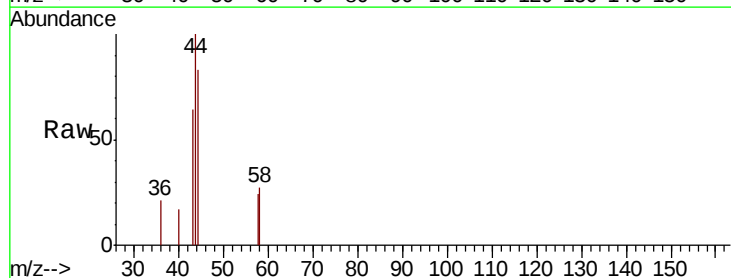
Tot Ion: 59 Resp: 3090  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

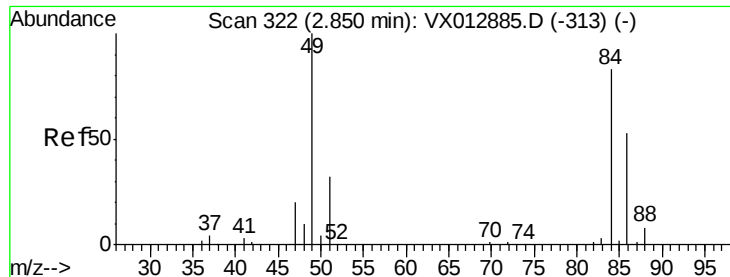


#16

Acetone  
 Concen: 0.324 ug/l  
 RT: 2.44 min Scan# 254  
 Delta R.T. 0.00 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

Tgt Ion: 43 Resp: 380  
 Ion Ratio Lower Upper  
 43 100  
 58 80.3 25.4 38.2#

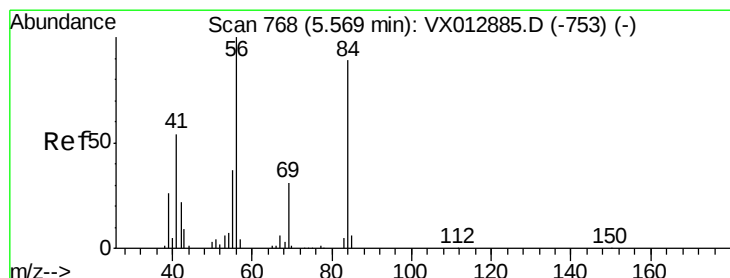
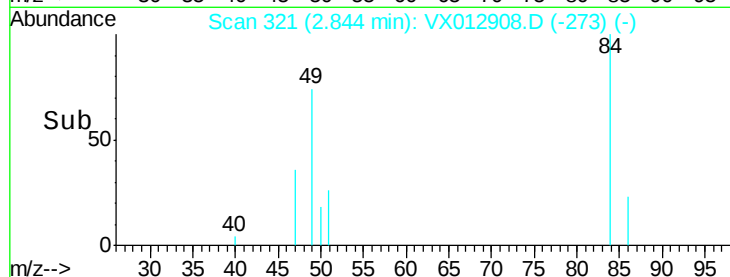
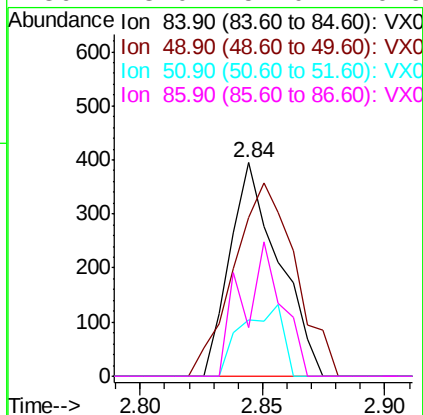
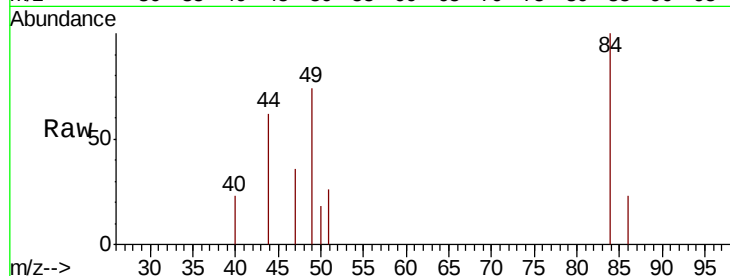




#20  
Methvlene Chloride  
Concen: 0.255 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.01 min  
Lab File: VX012908.D  
Acq: 08 Oct 2019 23:39

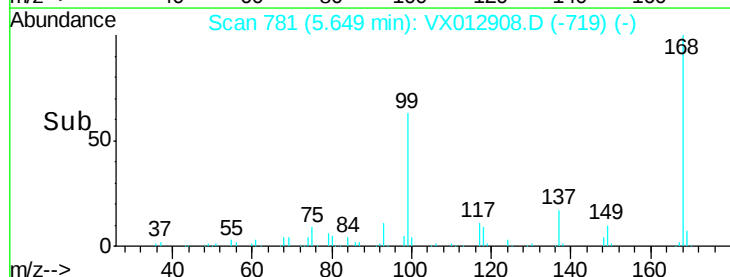
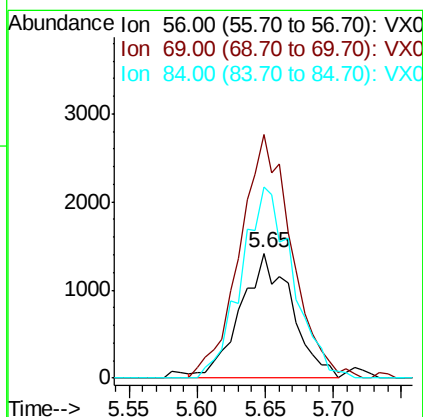
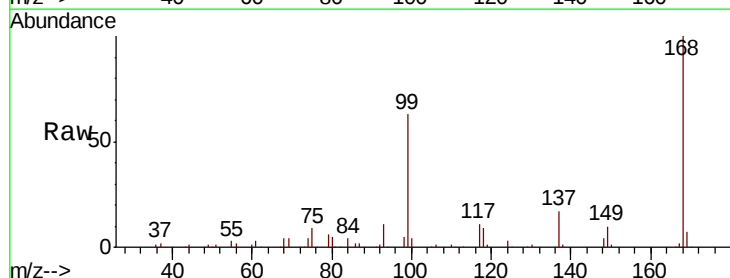
Instrument :  
MSVOA\_X  
ClientSampleId :  
FA19-GMZ1CSS-TB1

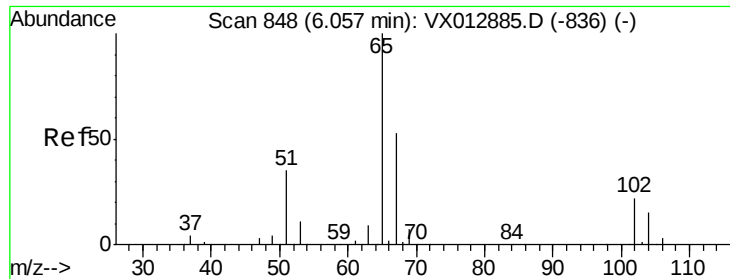
Tot Ion: 84 Resp: 551  
Ion Ratio Lower Upper  
84 100  
49 74.2 96.6 144.8#  
51 26.1 30.7 46.1#  
86 23.0 51.0 76.6#



#31  
Cyclohexane  
Concen: 1.151 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. 0.08 min  
Lab File: VX012908.D  
Acq: 08 Oct 2019 23:39

Tgt Ion: 56 Resp: 3721  
Ion Ratio Lower Upper  
56 100  
69 194.8 25.2 37.8#  
84 152.9 71.3 106.9#

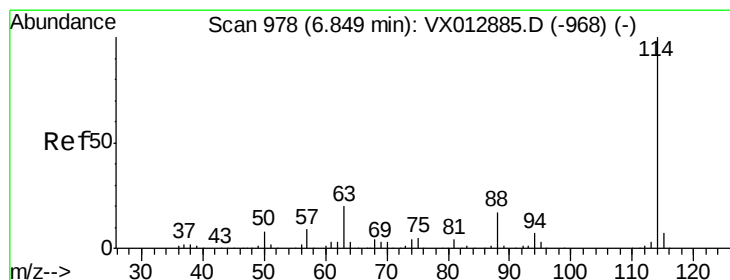
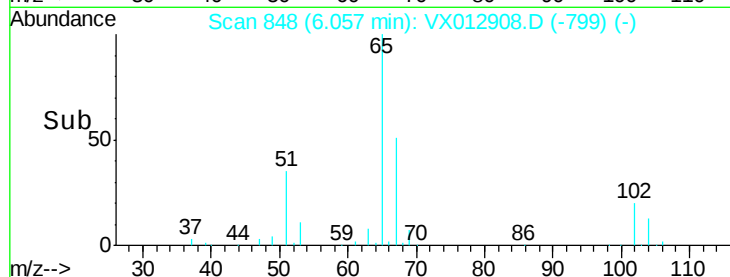
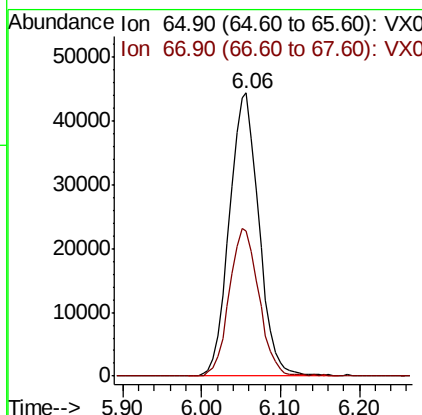
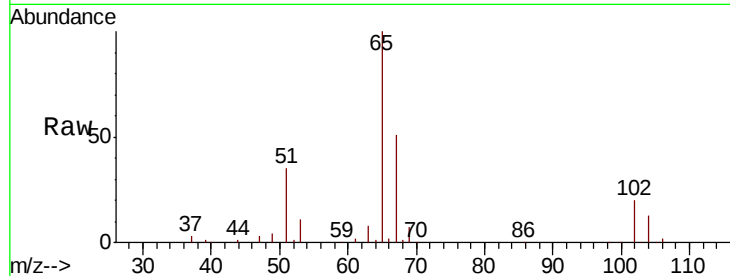




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.988 ug/l  
 RT: 6.06 min Scan# 848  
 Delta R.T. 0.00 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

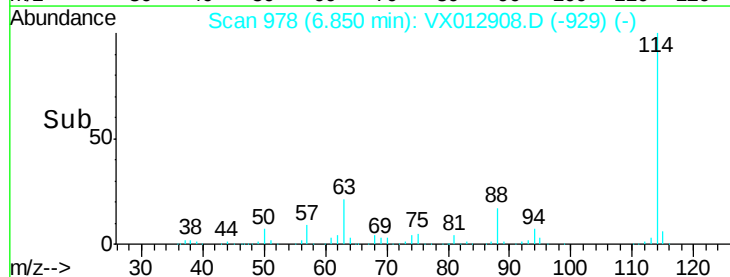
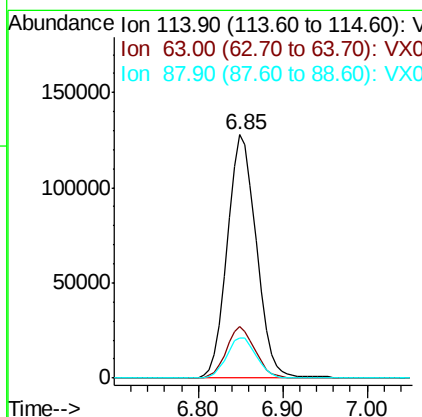
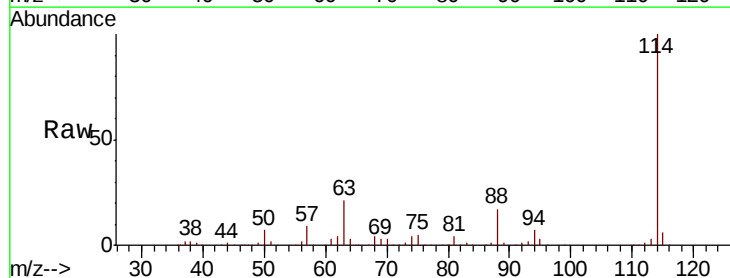
Instrument :  
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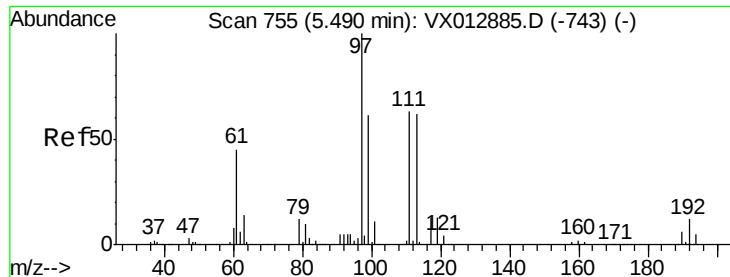
Tot Ion: 65 Resp: 115795  
 Ion Ratio Lower Upper  
 65 100  
 67 52.1 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

Tgt Ion: 114 Resp: 300312  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 40.8  
 88 16.6 0.0 33.8

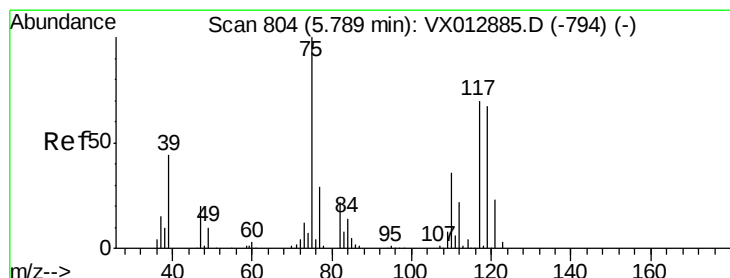
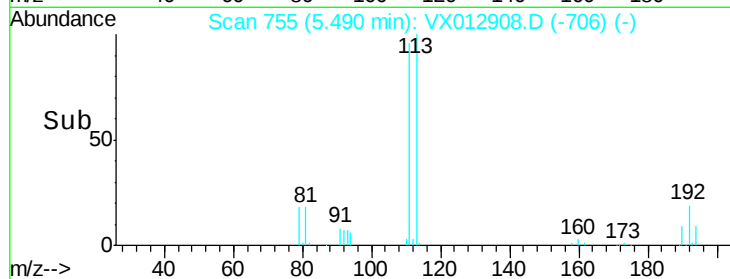
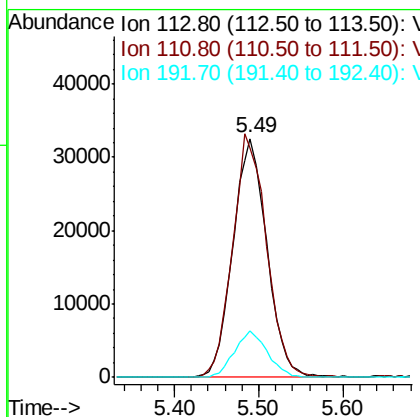
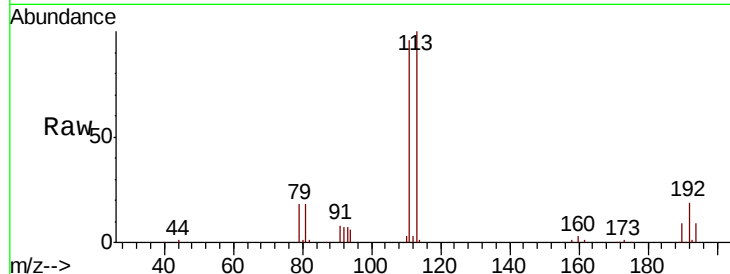




#35  
 Dibromofluoromethane  
 Concen: 51.611 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

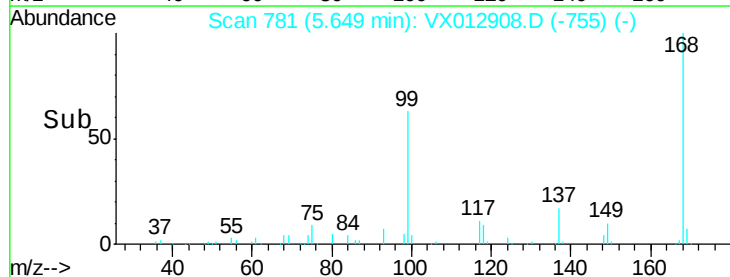
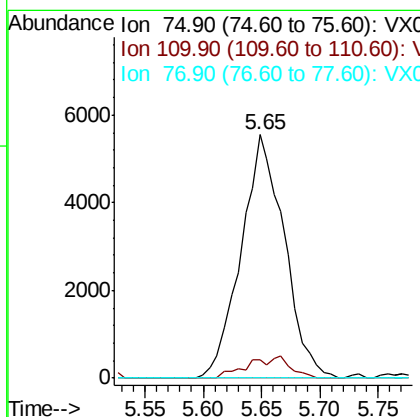
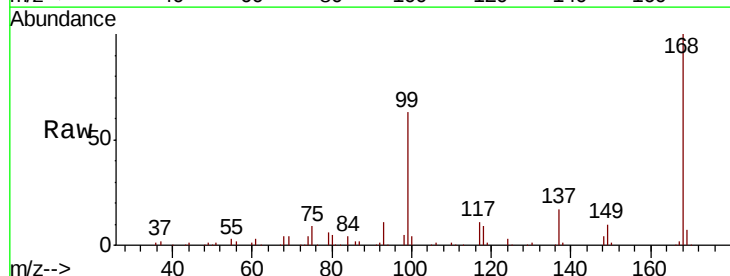
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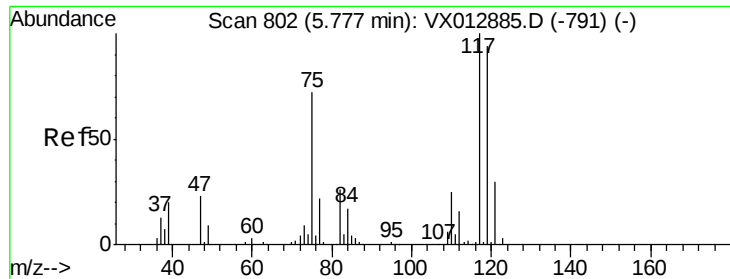
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 83.2  | 124.8 |
| 192     | 18.9  | 15.4  | 23.2  |



#36  
 1,1-Dichloropropene  
 Concen: 5.437 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 4.6   | 17.6  | 52.9# |
| 77      | 0.0   | 24.4  | 36.6# |

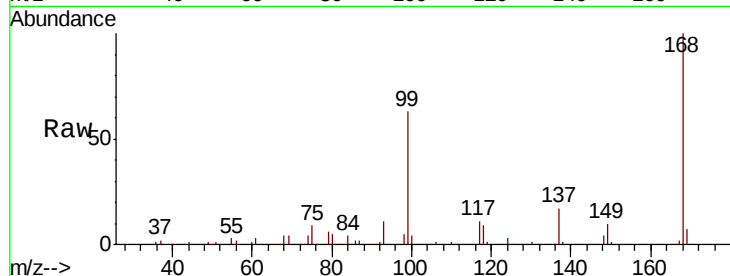




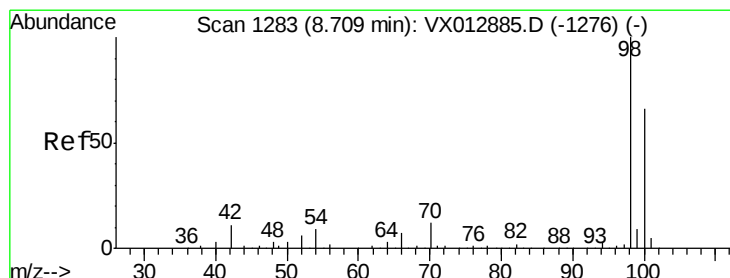
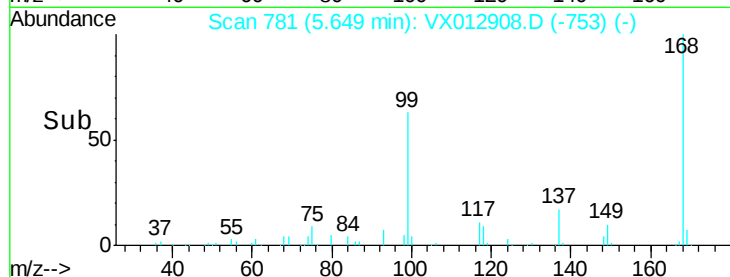
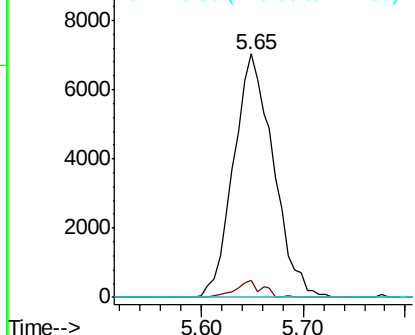
#38  
Carbon Tetrachloride  
Concen: 7.382 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. -0.13 min  
Lab File: VX012908.D  
Acq: 08 Oct 2019 23:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA19-GMZ1CSS-TB1

Tot Ion:117 Resp: 18971  
Ion Ratio Lower Upper  
117 100  
119 6.9 74.5 111.7#  
121 0.0 24.2 36.4#

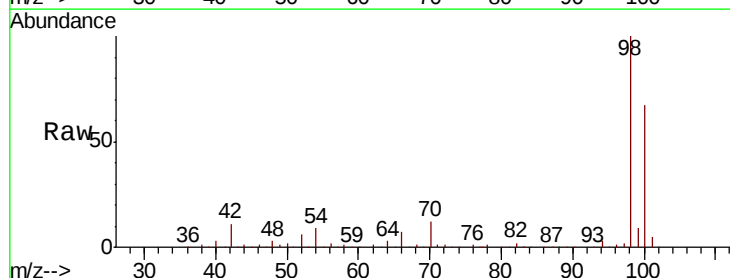


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

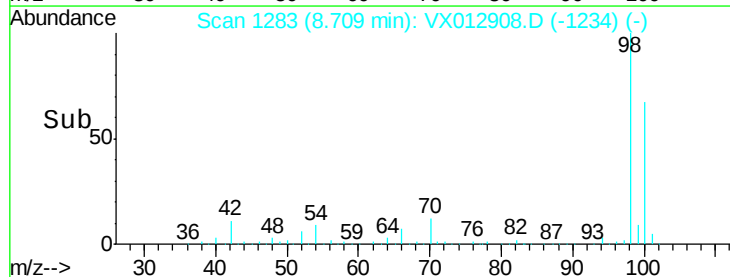
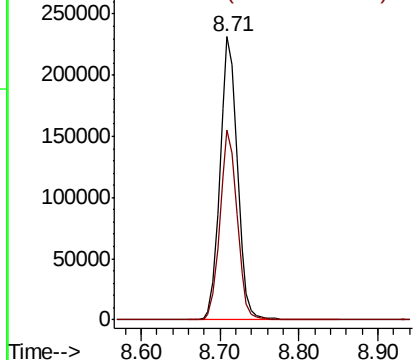


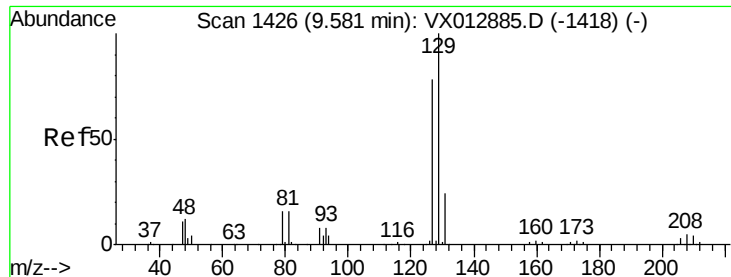
#50  
Toluene-d8  
Concen: 52.871 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX012908.D  
Acq: 08 Oct 2019 23:39

Tgt Ion: 98 Resp: 355430  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

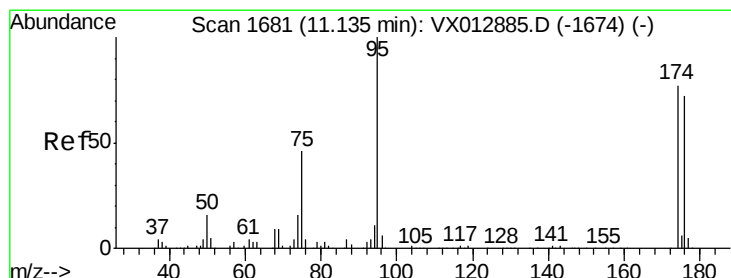
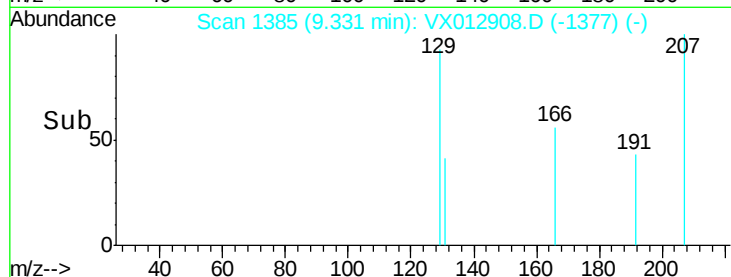
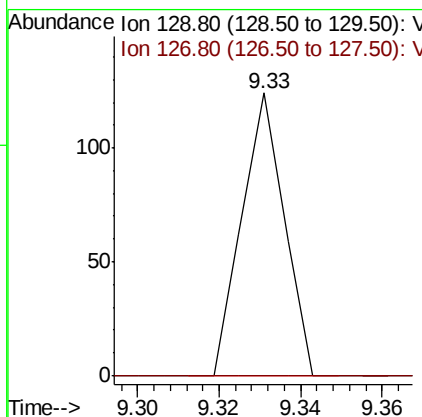
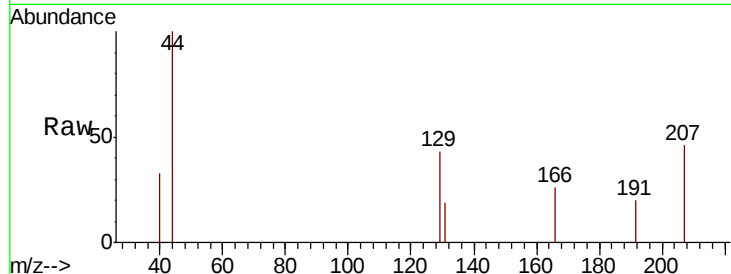




#60  
 Dibromochloromethane  
 Concen: 1.896 ug/l  
 RT: 9.33 min Scan# 1385  
 Delta R.T. -0.25 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

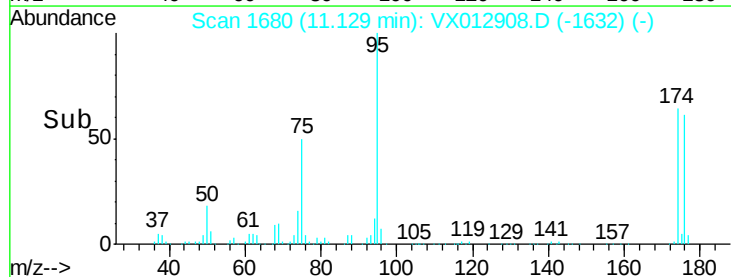
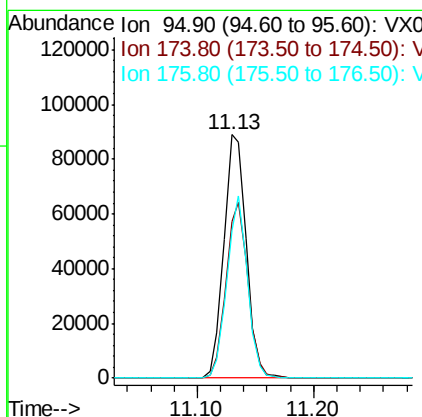
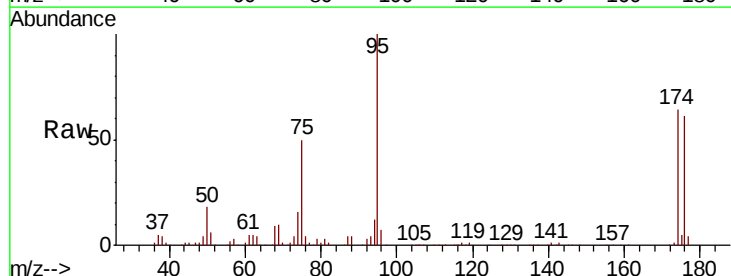
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA19-GMZ1CSS-TB1

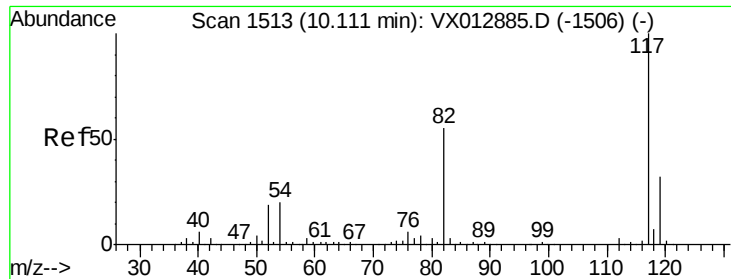
Tot Ion:129 Resp: 90  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 38.9 116.7#



#62  
 4-Bromofluorobenzene  
 Concen: 45.251 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. -0.01 min  
 Lab File: VX012908.D  
 Acq: 08 Oct 2019 23:39

Tgt Ion: 95 Resp: 118201  
 Ion Ratio Lower Upper  
 95 100  
 174 70.7 0.0 143.4  
 176 68.7 0.0 136.0

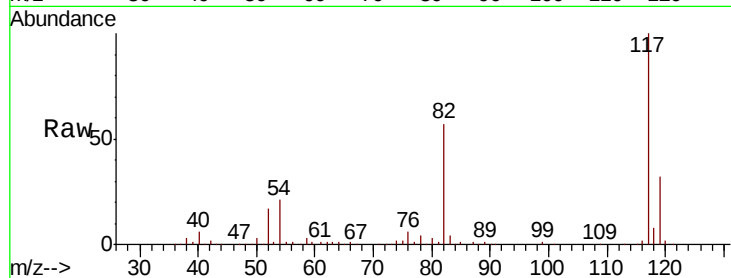




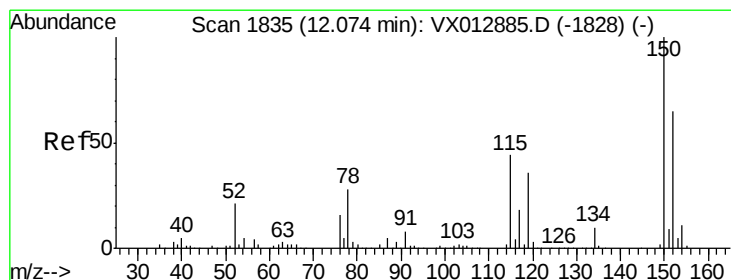
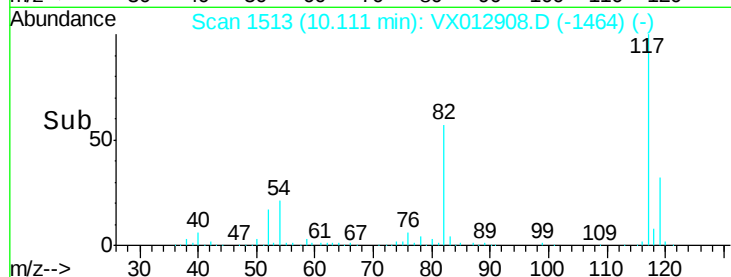
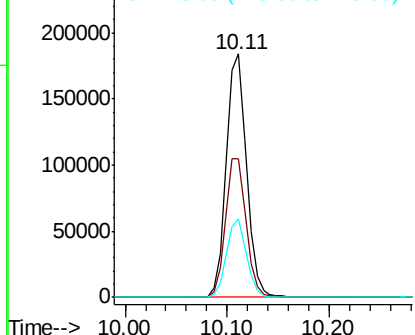
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX012908.D  
Acq: 08 Oct 2019 23:39

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA19-GMZ1CSS-TB1

Tot Ion:117 Resp: 252548  
Ion Ratio Lower Upper  
117 100  
82 56.9 44.1 66.1  
119 32.4 25.8 38.8

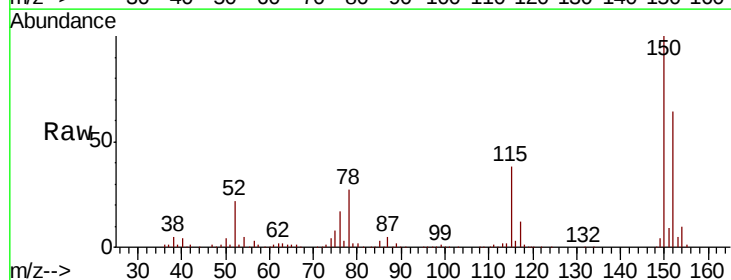


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

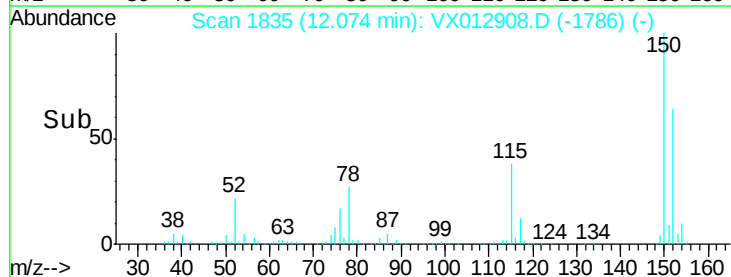
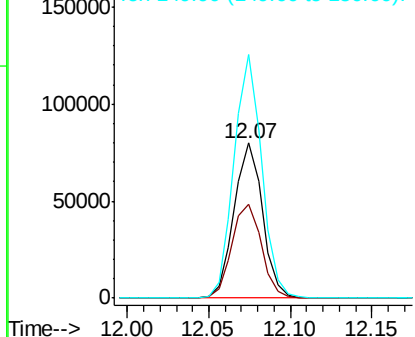


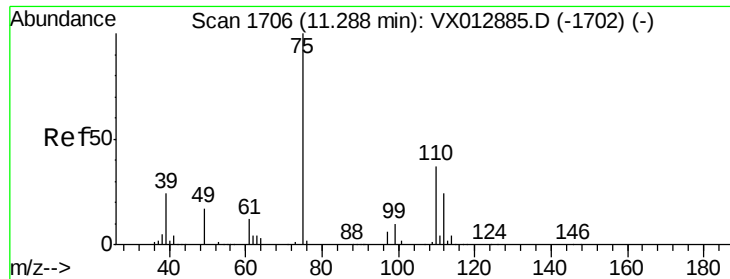
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX012908.D  
Acq: 08 Oct 2019 23:39

Tgt Ion:152 Resp: 97218  
Ion Ratio Lower Upper  
152 100  
115 62.4 44.5 133.5  
150 152.8 0.0 353.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.297 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012908.D

Acq: 08 Oct 2019 23:39

Instrument :

MSVOA\_X

ClientSampleId :

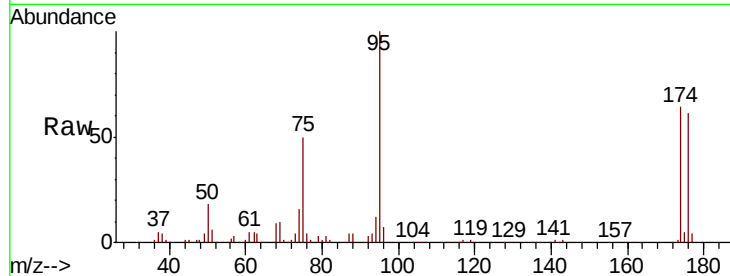
FA19-GMZ1CSS-TB1

Tot Ion: 75 Resp: 58860

Ion Ratio Lower Upper

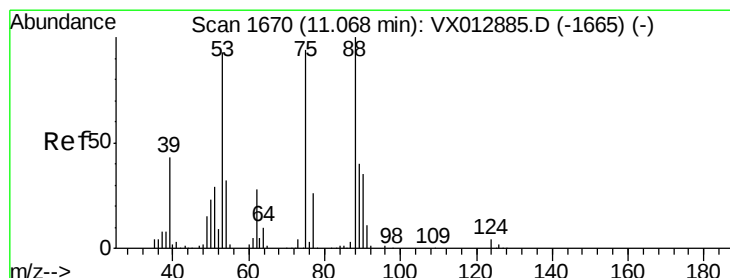
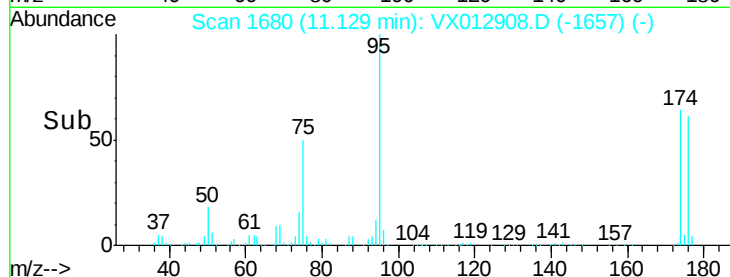
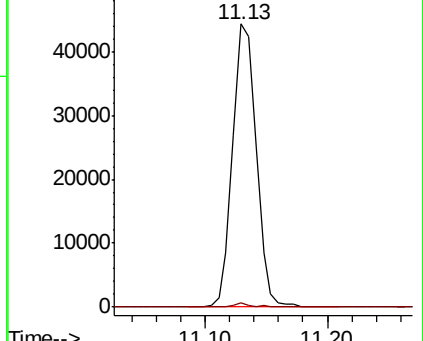
75 100

77 1.1 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 68.544 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012908.D

Acq: 08 Oct 2019 23:39

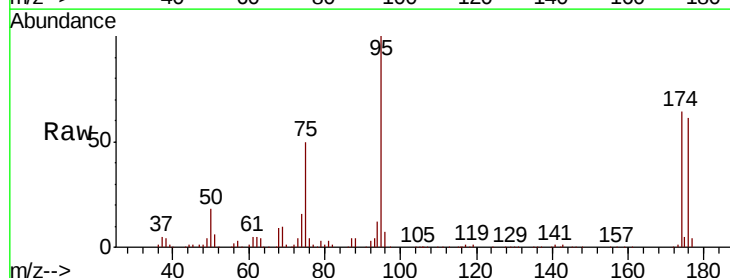
Tgt Ion: 75 Resp: 58860

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

