

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\  
 Data File : VX016981.D  
 Acq On : 26 Jun 2020 14:21  
 Operator : JC/SP  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 27 04:23:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 26 08:34:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 217737   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 390788   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 395063   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 204697   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 178697   | 54.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.70% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 129710   | 50.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.50% |          |
| 50) Toluene-d8              | 8.70  | 98   | 495510   | 52.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.74% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 208241   | 56.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.84% |          |

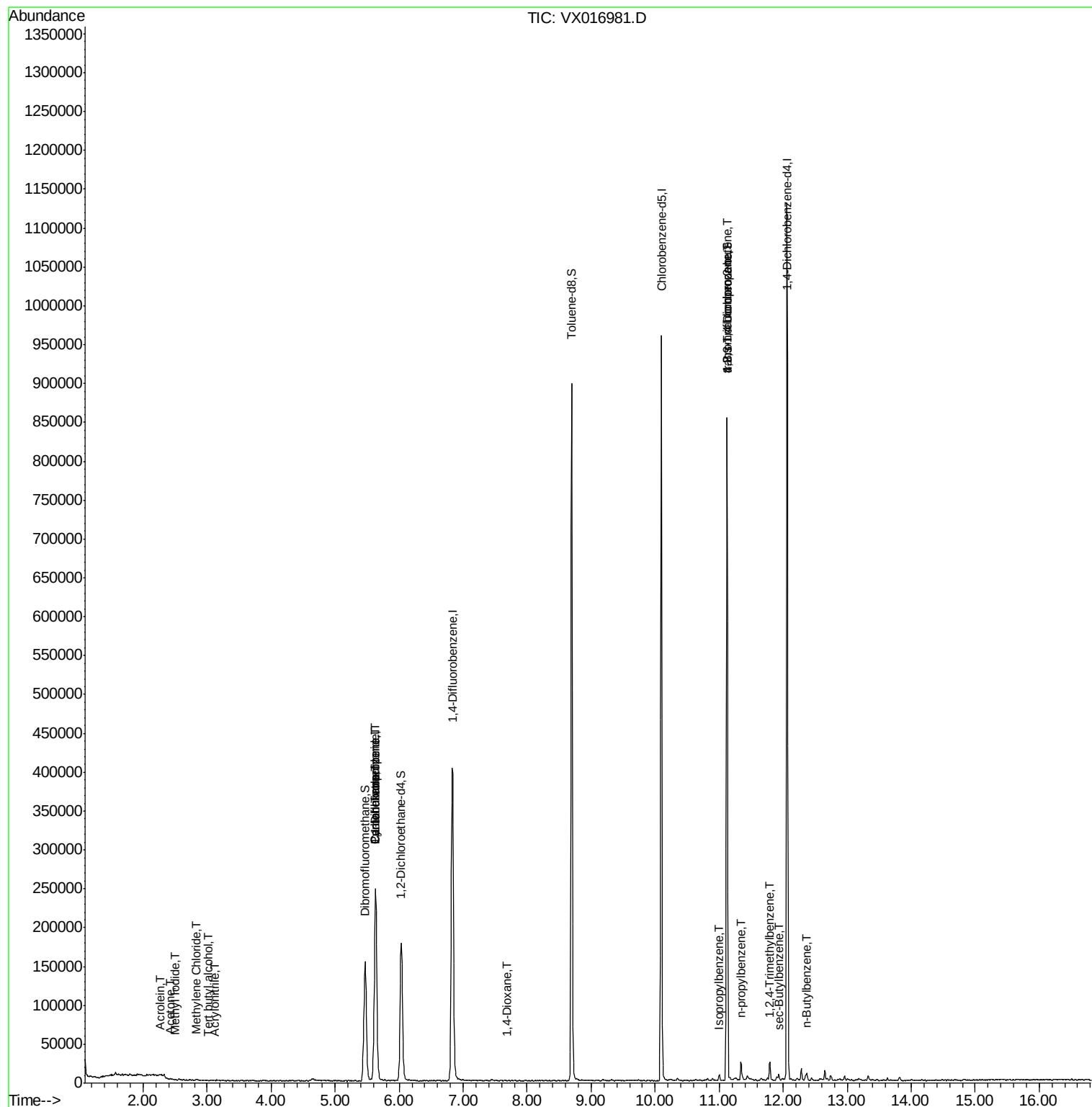
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.62  | 94   | 117      | Below Cal | #      | 26     |
| 10) Methyl Iodide              | 2.51  | 142  | 141      | 2.828     | ug/l # | 67     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 168      | 0.271     | ug/l # | 92     |
| 13) Acrolein                   | 2.27  | 56   | 288      | 0.626     | ug/l # | 39     |
| 15) Acrylonitrile              | 3.13  | 53   | 311      | 0.216     | ug/l # | 66     |
| 16) Acetone                    | 2.42  | 43   | 499      | 0.388     | ug/l # | 85     |
| 20) Methylene Chloride         | 2.84  | 84   | 706      | 0.242     | ug/l # | 59     |
| 31) Cyclohexane                | 5.63  | 56   | 5635     | 1.365     | ug/l # | 28     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 19607    | 5.067     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 23590    | 5.760     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.68  | 88   | 42       | 0.618     | ug/l # | 1      |
| 73) Isopropylbenzene           | 11.00 | 105  | 3757     | 0.267     | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 115604   | 26.911    | ug/l # | 36     |
| 78) n-propylbenzene            | 11.34 | 91   | 12949    | 0.778     | ug/l   | 95     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 115604   | 68.323    | ug/l # | 9      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 9729     | 0.821     | ug/l   | 100    |
| 85) sec-Butylbenzene           | 11.93 | 105  | 3430     | 0.258     | ug/l   | 93     |
| 89) n-Butylbenzene             | 12.37 | 91   | 2944     | 0.257     | ug/l # | 87     |

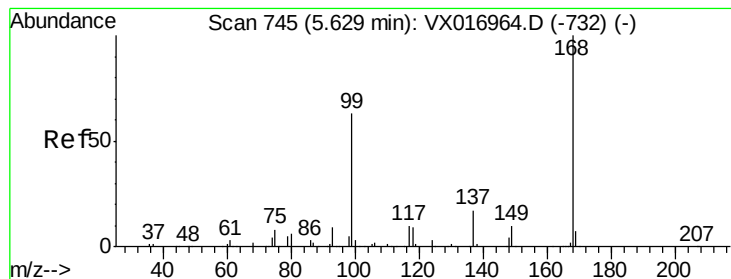
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062620\  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jun 27 04:23:11 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X062620W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 26 08:34:16 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Instrument :

MSVOA\_X

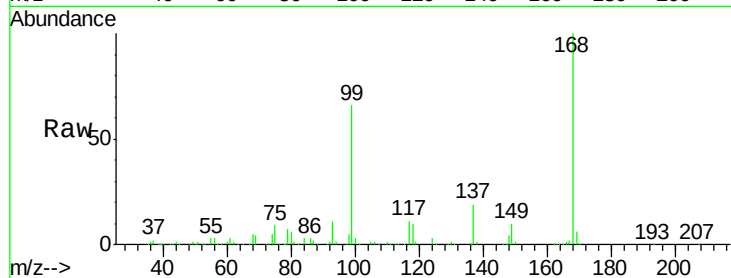
ClientSampleId :

Tot Ion:168 Resp: 217737

Ion Ratio Lower Upper

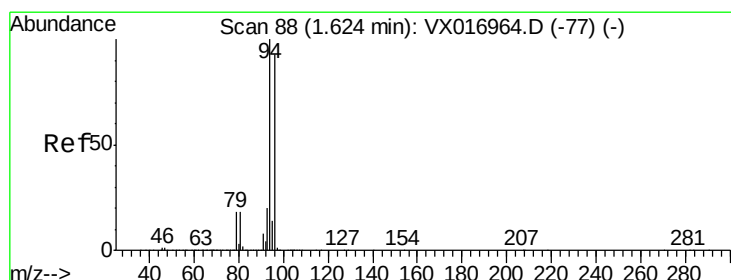
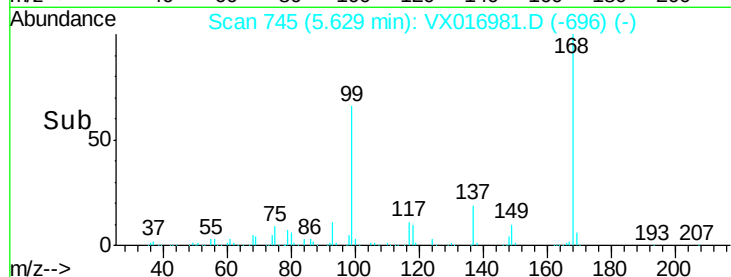
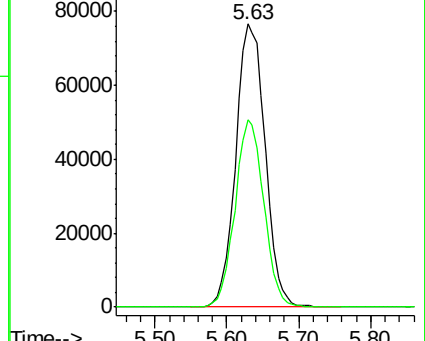
168 100

99 66.4 50.2 75.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX016981.D

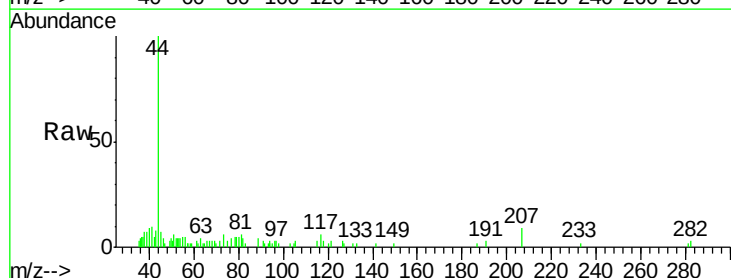
Acq: 26 Jun 2020 14:21

Tgt Ion: 94 Resp: 117

Ion Ratio Lower Upper

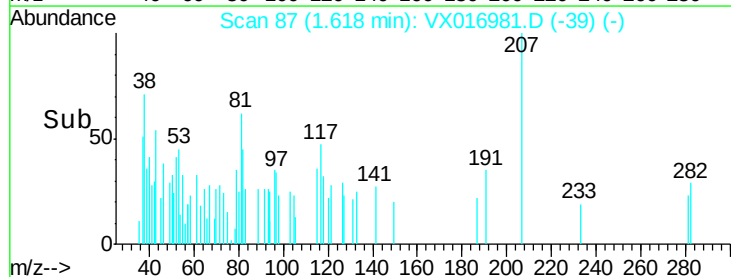
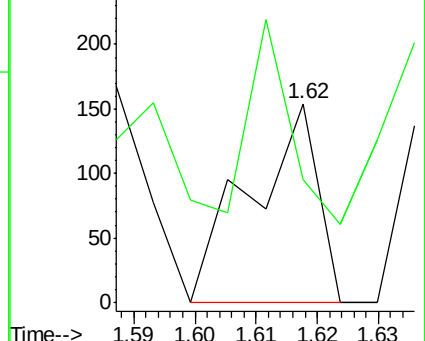
94 100

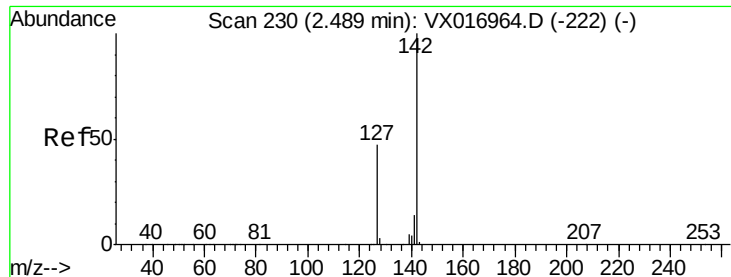
96 22.1 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

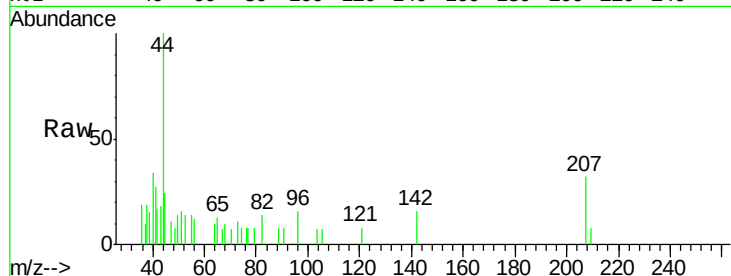




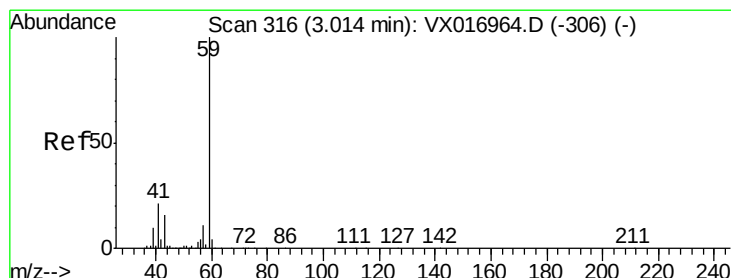
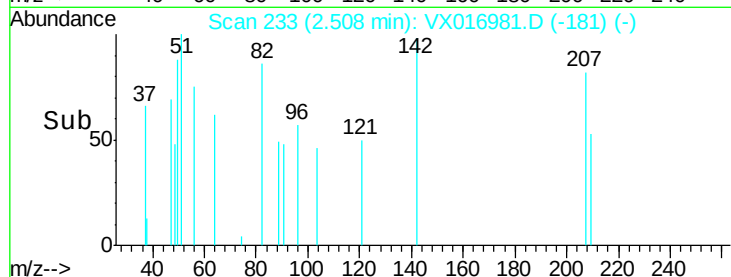
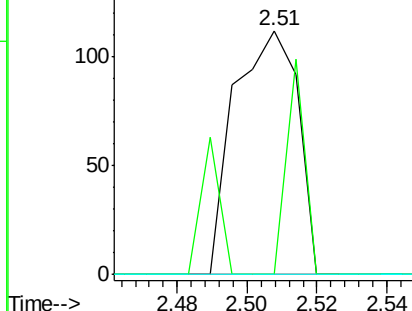
#10  
Methyl Iodide  
Concen: 2.828 ug/l  
RT: 2.51 min Scan# 233  
Delta R.T. 0.02 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:142 Resp: 141  
Ion Ratio Lower Upper  
142 100  
127 25.5 37.4 56.0#  
141 0.0 11.7 17.5#

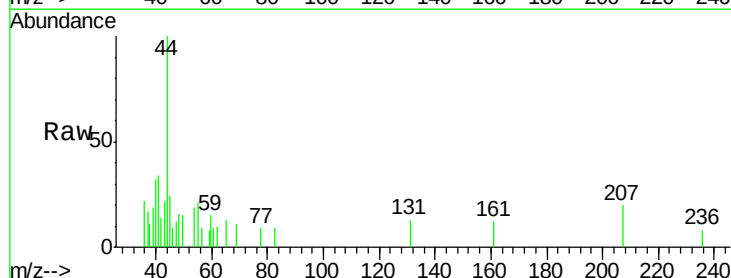


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

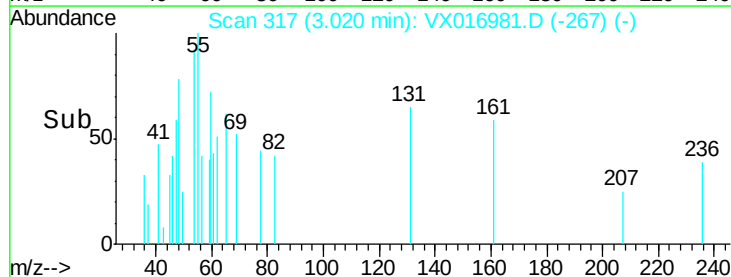
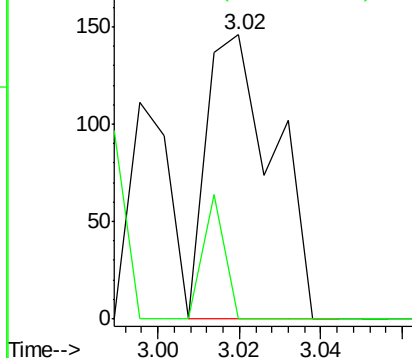


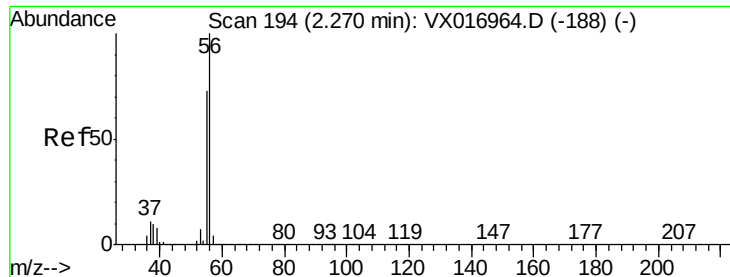
#11  
Tert butyl alcohol  
Concen: 0.271 ug/l  
RT: 3.02 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

Tgt Ion: 59 Resp: 168  
Ion Ratio Lower Upper  
59 100  
57 13.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.626 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

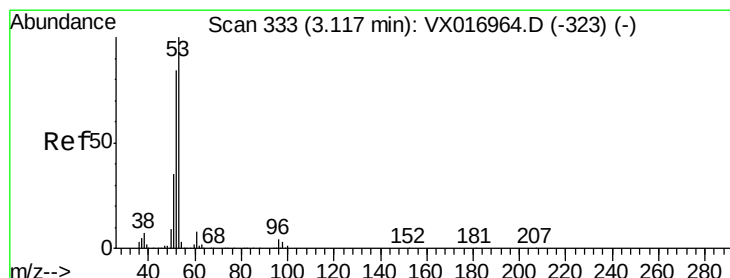
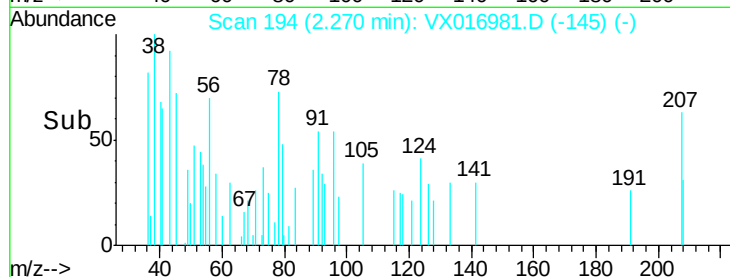
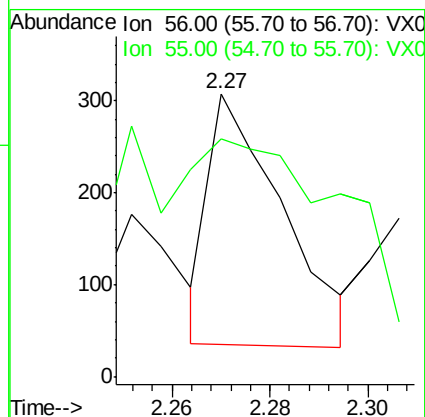
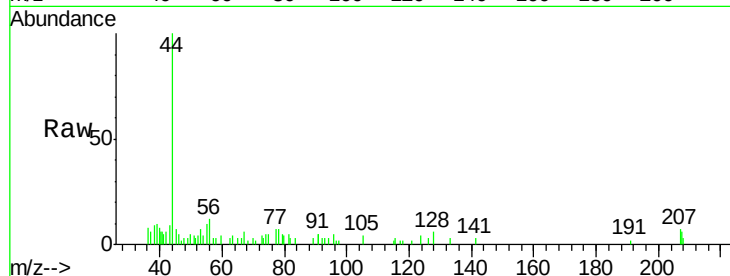
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 56 Resp: 288

Ion Ratio Lower Upper

56 100

55 122.9 57.5 86.3#



#15

Acrylonitrile

Concen: 0.216 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

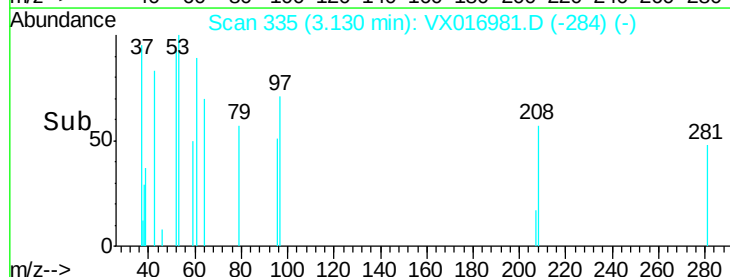
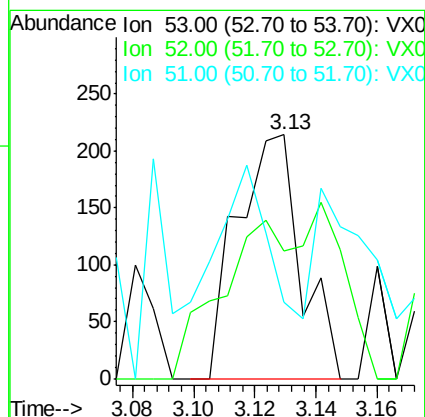
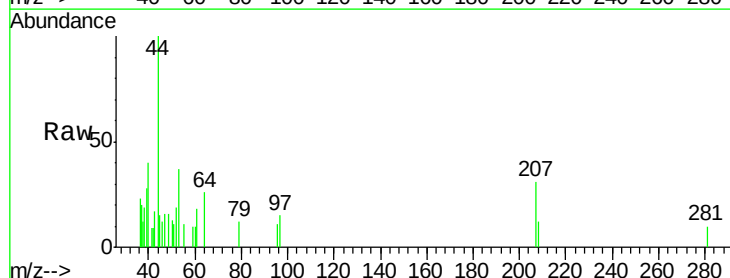
Tgt Ion: 53 Resp: 311

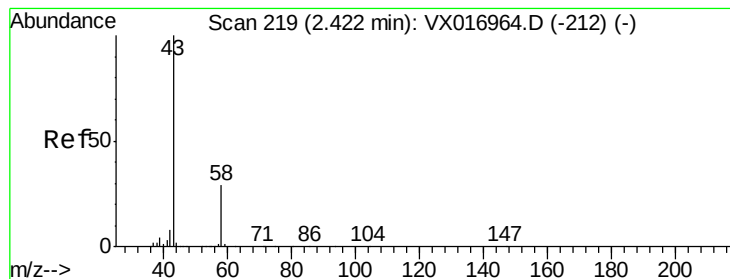
Ion Ratio Lower Upper

53 100

52 67.5 66.3 99.5

51 79.7 29.0 43.6#





#16

Acetone

Concen: 0.388 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Instrument :

MSVOA\_X

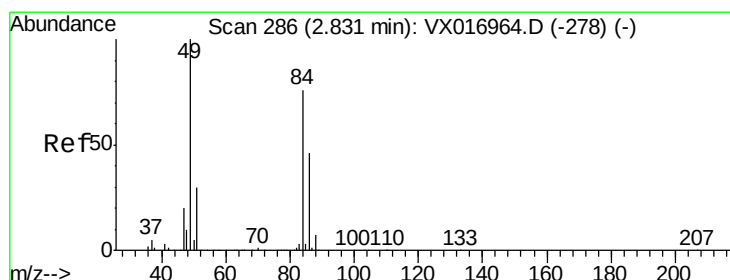
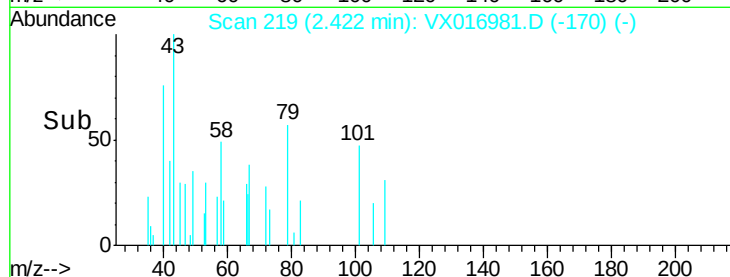
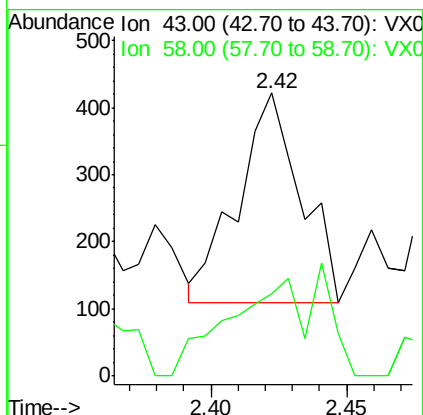
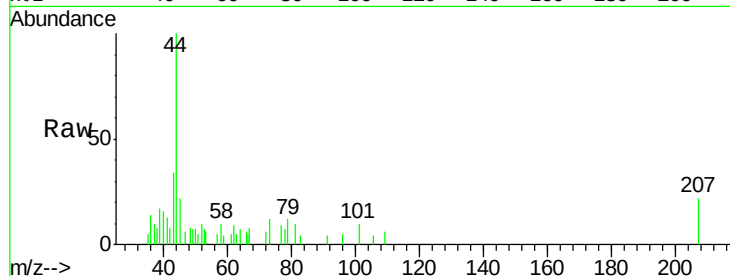
ClientSampleId :

Tot Ion: 43 Resp: 499

Ion Ratio Lower Upper

43 100

58 21.5 23.5 35.3#



#20

Methylene Chloride

Concen: 0.242 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Tgt Ion: 84 Resp: 706

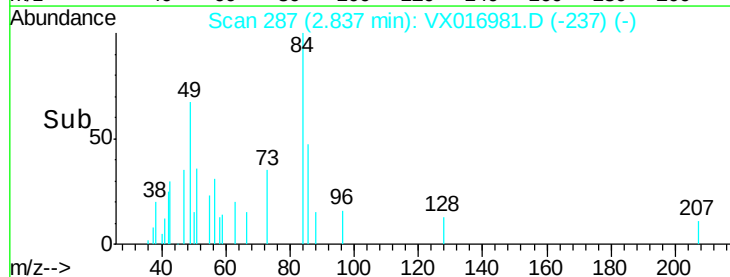
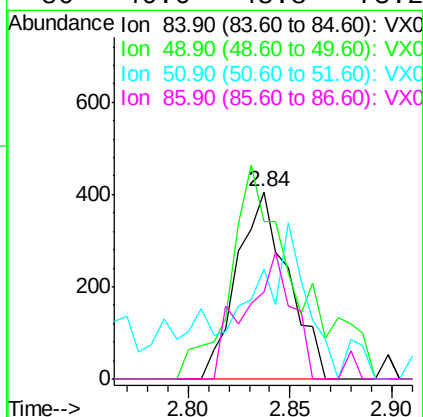
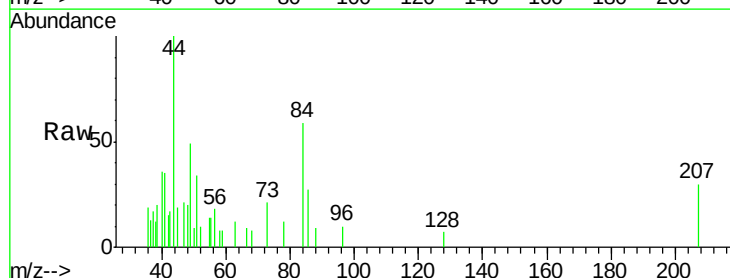
Ion Ratio Lower Upper

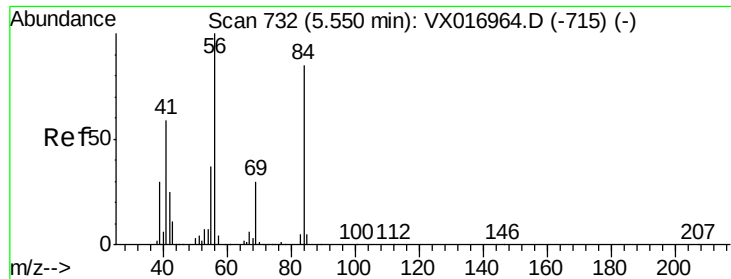
84 100

49 68.5 105.6 158.4#

51 58.6 31.2 46.8#

86 46.6 48.8 73.2#

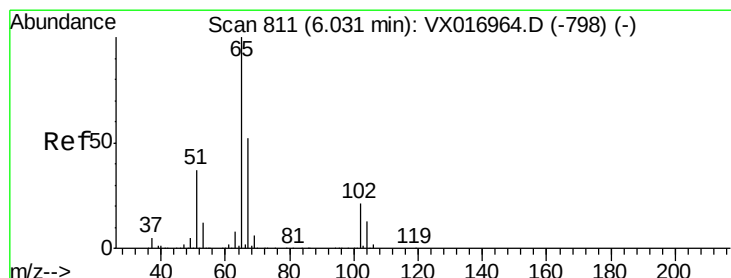
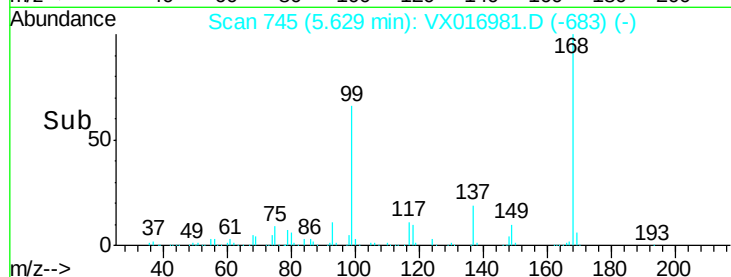
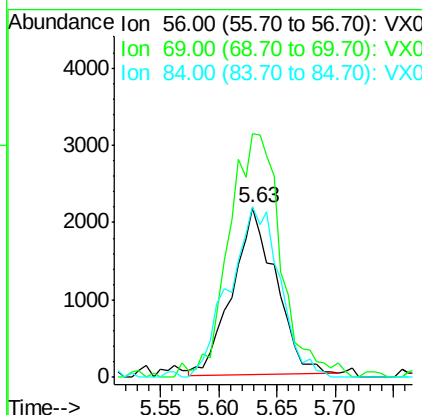
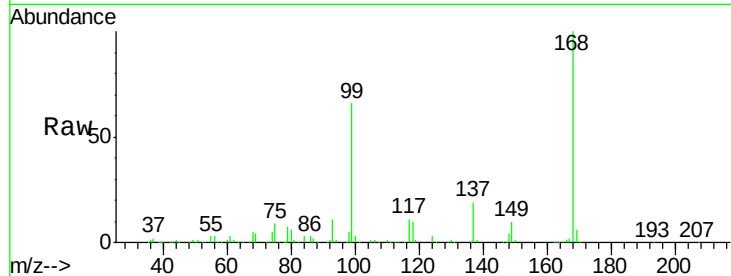




#31  
Cyclohexane  
Concen: 1.365 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

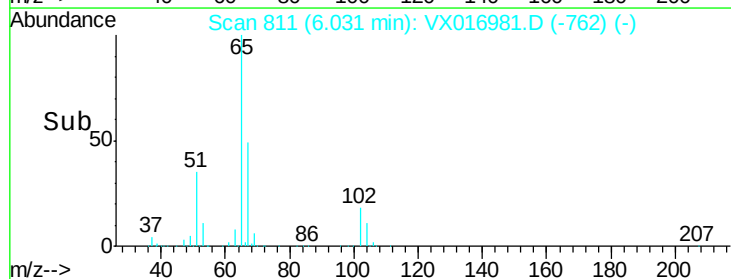
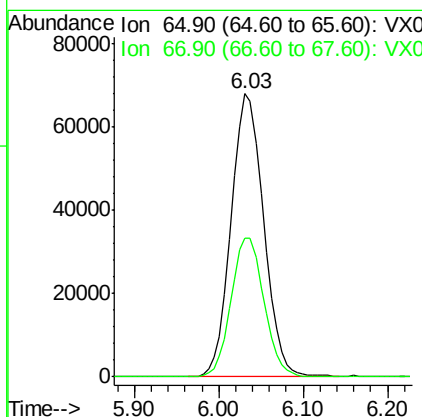
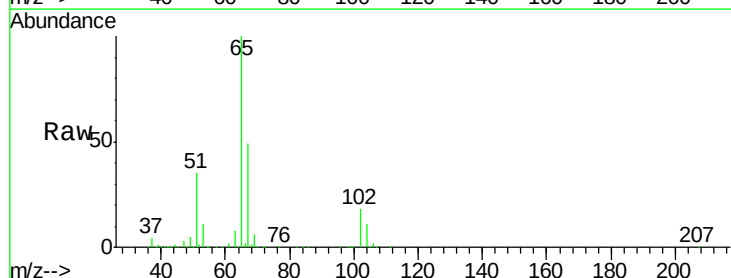
Instrument :  
MSVOA\_X  
ClientSampled :

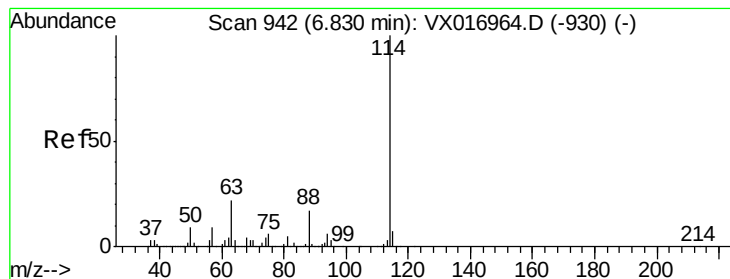
| Tot Ion   | 56    | Resp  | 5635   |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 145.7 | 23.6  | 35.4#  |
| 84        | 104.8 | 67.8  | 101.8# |



#33  
1,2-Dichloroethane-d4  
Concen: 54.347 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

| Tgt Ion   | 65    | Resp  | 178697 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 67        | 49.6  | 0.0   | 102.8  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

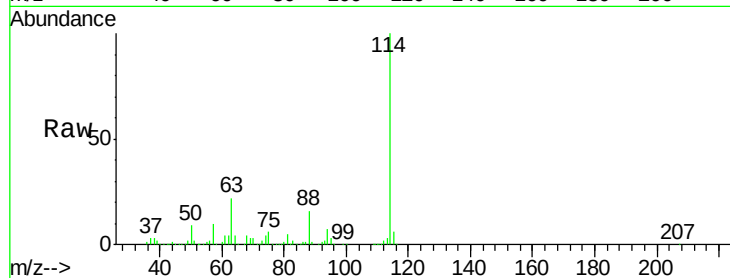
Tot Ion:114 Resp: 390788

Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.4

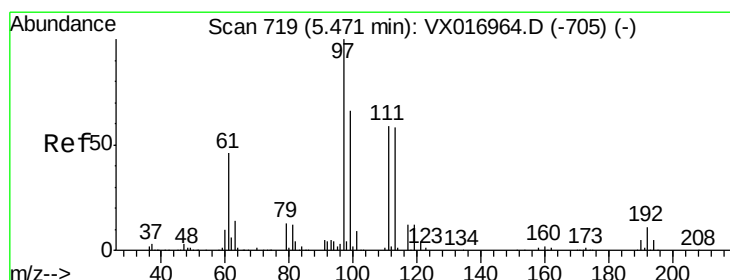
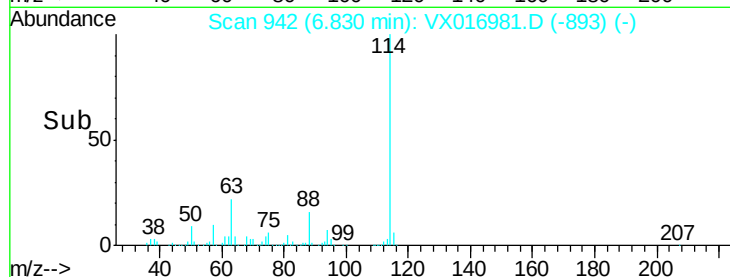
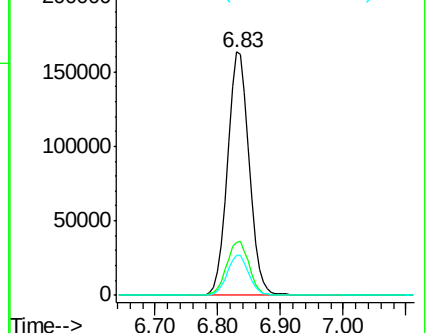
88 16.3 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.254 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

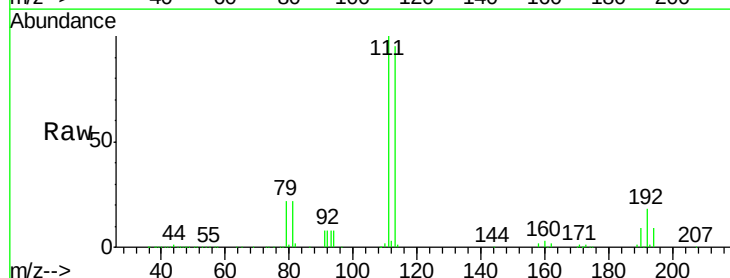
Tgt Ion:113 Resp: 129710

Ion Ratio Lower Upper

113 100

111 102.7 84.3 126.5

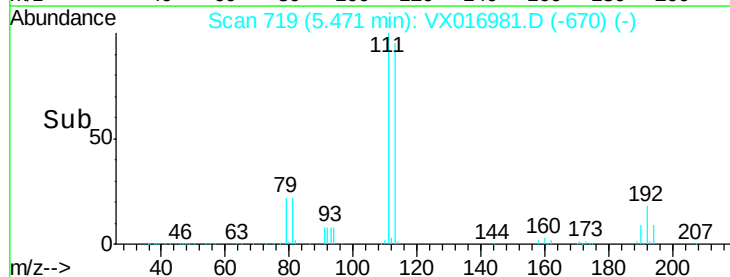
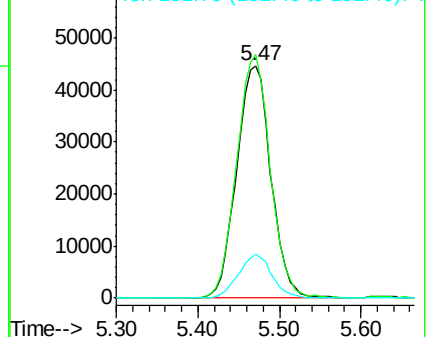
192 18.2 15.2 22.8



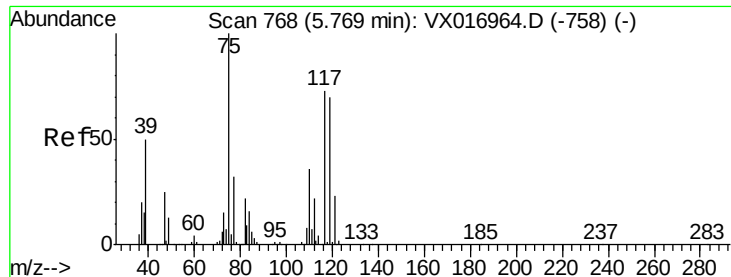
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V







#36

1,1-Dichloropropene

Concen: 5.067 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

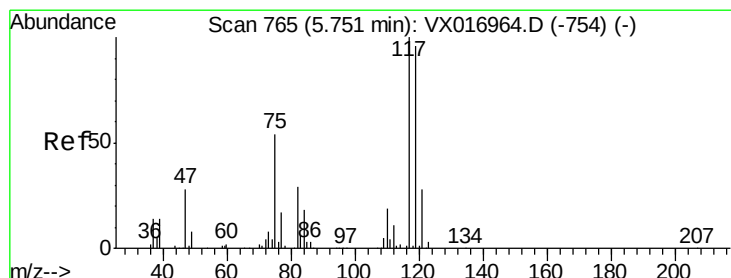
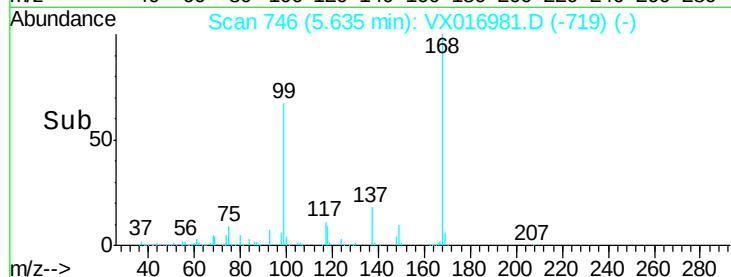
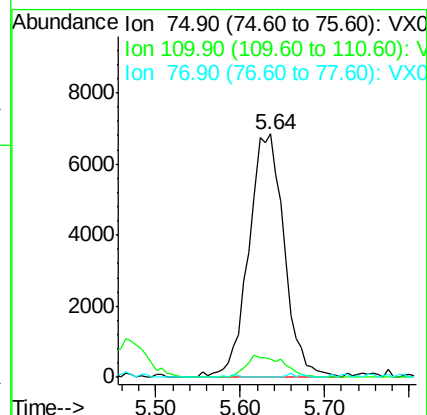
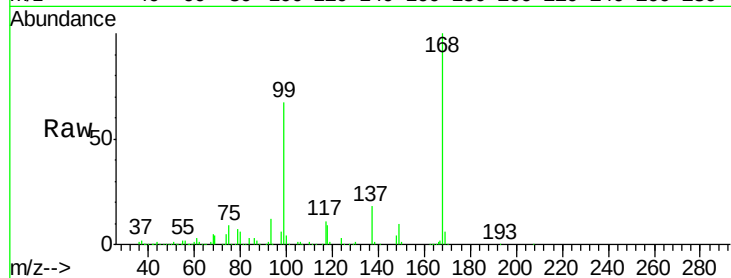
Tot Ion: 75 Resp: 19607

Ion Ratio Lower Upper

75 100

110 9.4 17.2 51.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.760 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

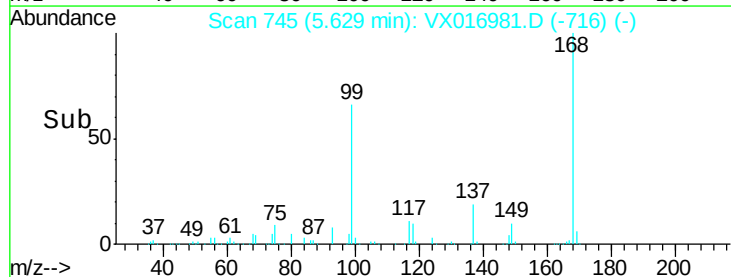
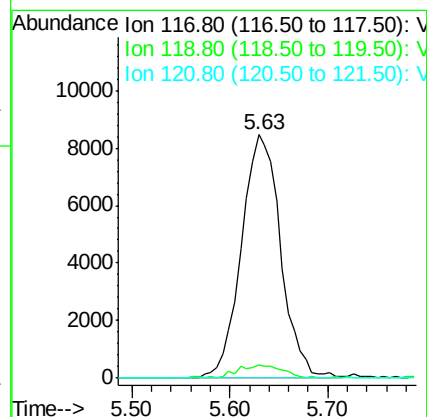
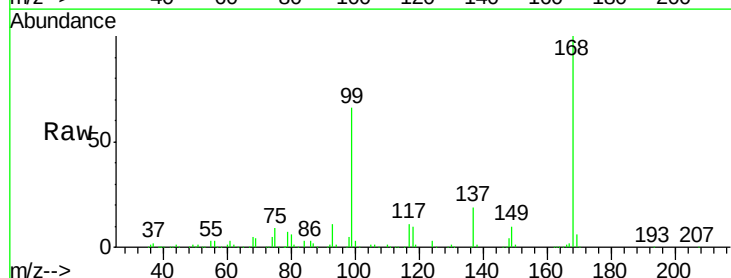
Tgt Ion: 117 Resp: 23590

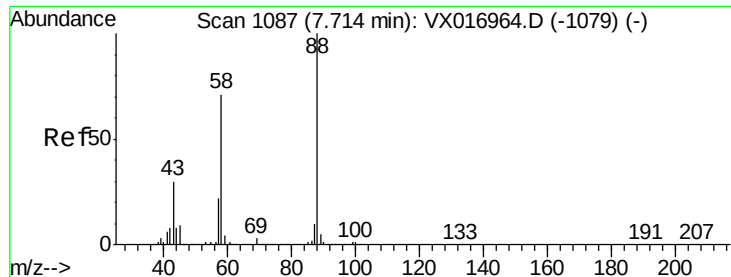
Ion Ratio Lower Upper

117 100

119 5.4 76.6 114.8#

121 0.0 22.5 33.7#

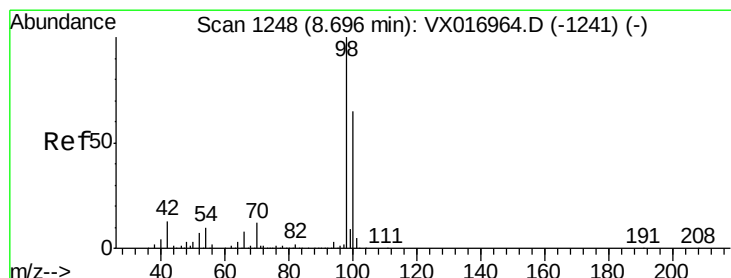
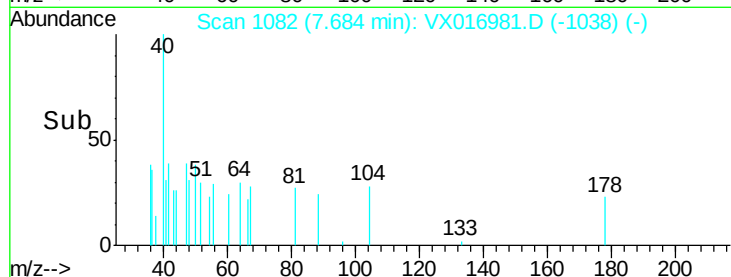
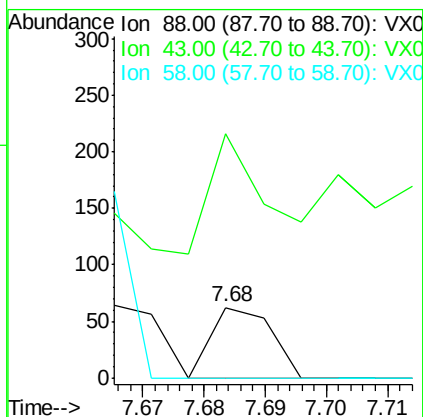
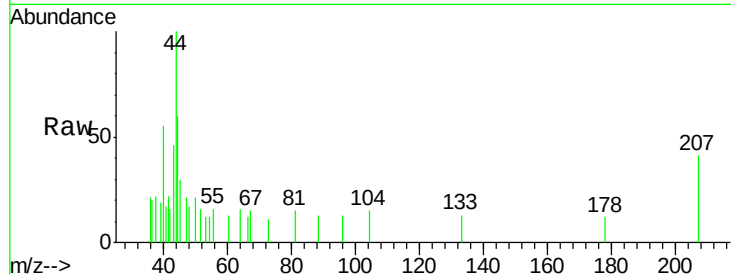




#49  
1,4-Dioxane  
Concen: 0.618 ug/l  
RT: 7.68 min Scan# 1082  
Delta R.T. -0.03 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

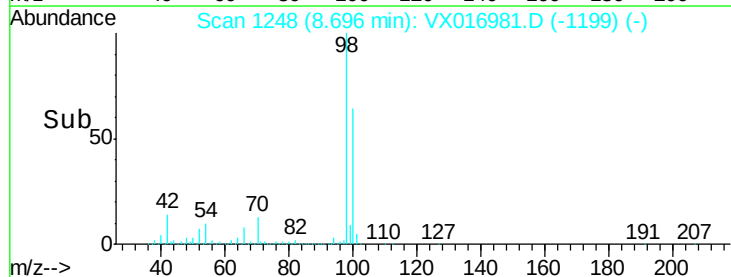
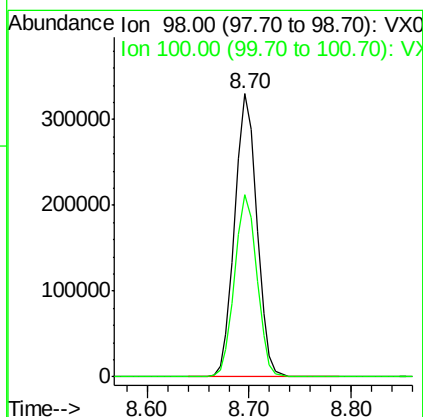
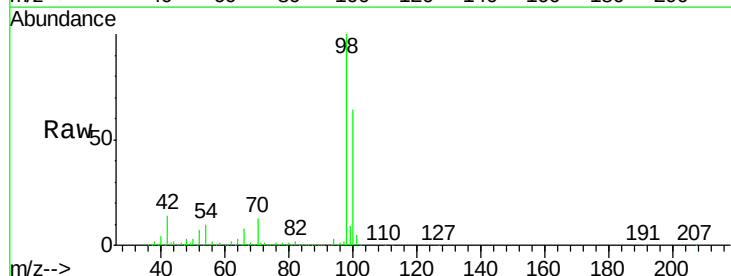
Instrument :  
MSVOA\_X  
ClientSampled :

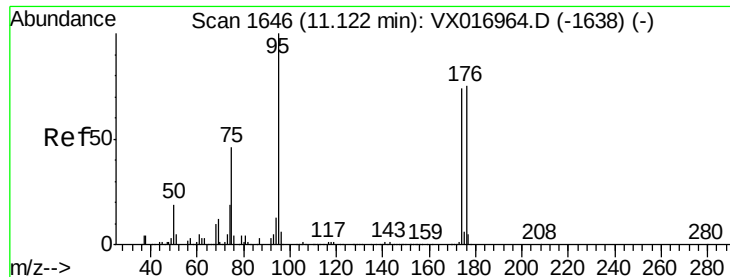
Tot Ion: 88 Resp: 42  
Ion Ratio Lower Upper  
88 100  
43 157.1 28.1 42.1#  
58 0.0 56.1 84.1#



#50  
Toluene-d8  
Concen: 52.373 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

Tgt Ion: 98 Resp: 495510  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.2 78.2

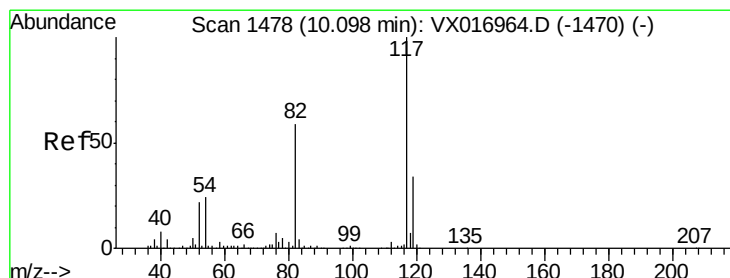
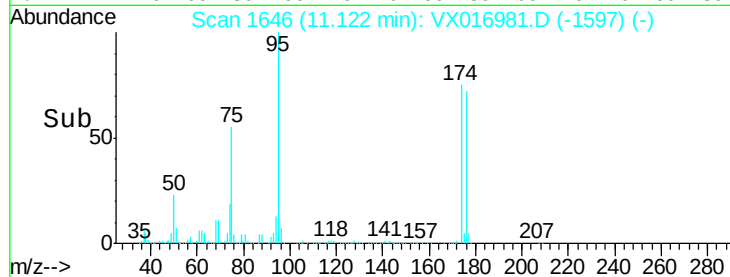
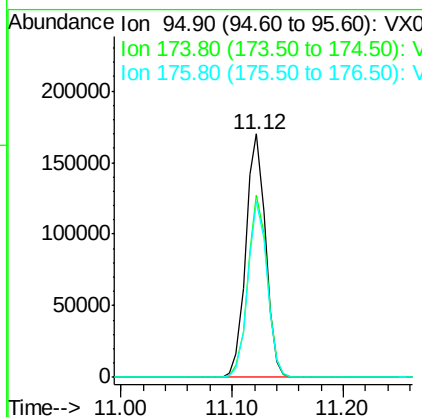
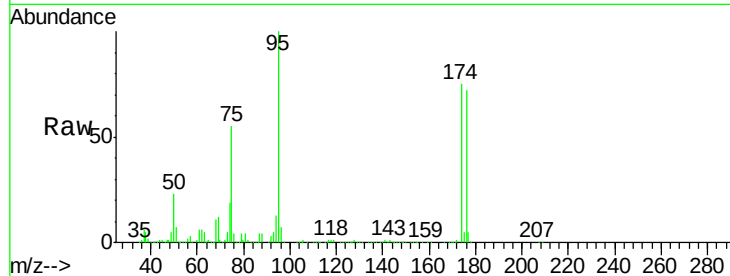




#62  
4-Bromofluorobenzene  
Concen: 56.919 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

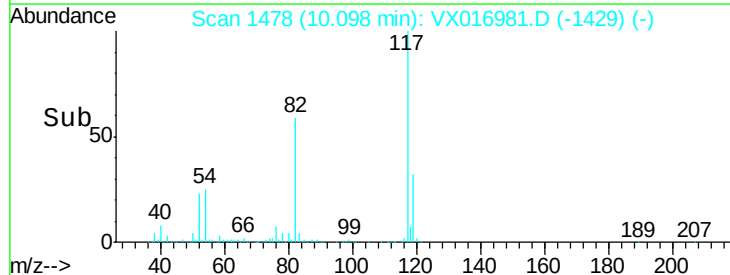
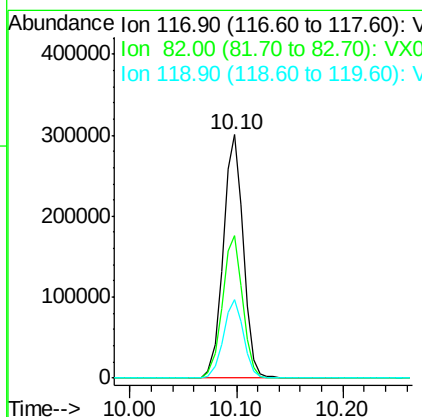
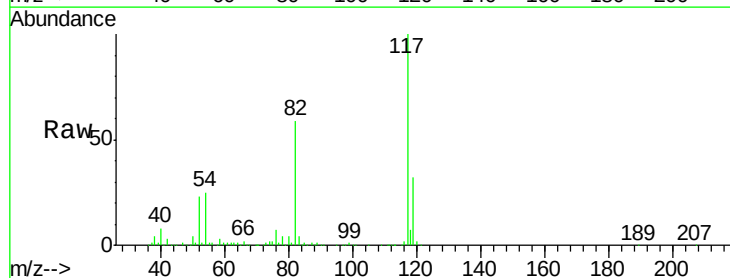
Instrument :  
MSVOA\_X  
ClientSampleId :

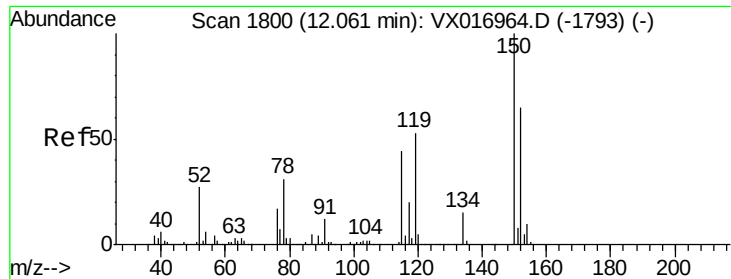
Tot Ion: 95 Resp: 208241  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 149.6  
176 70.9 0.0 148.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX016981.D  
Acq: 26 Jun 2020 14:21

Tgt Ion: 117 Resp: 395063  
Ion Ratio Lower Upper  
117 100  
82 58.7 46.8 70.2  
119 32.1 27.3 40.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

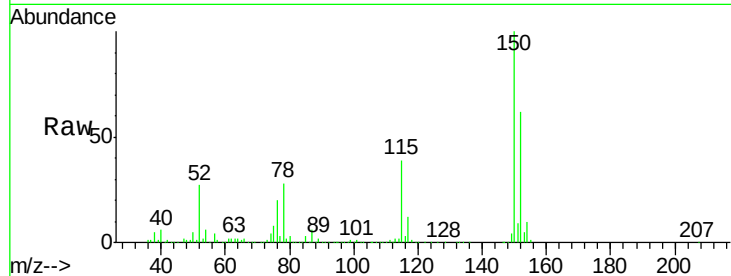
Tot Ion:152 Resp: 204697

Ion Ratio Lower Upper

152 100

115 61.5 42.8 128.4

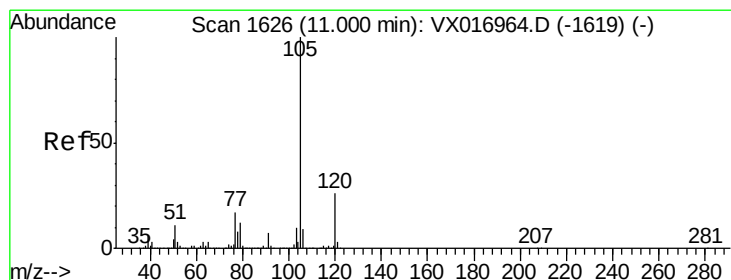
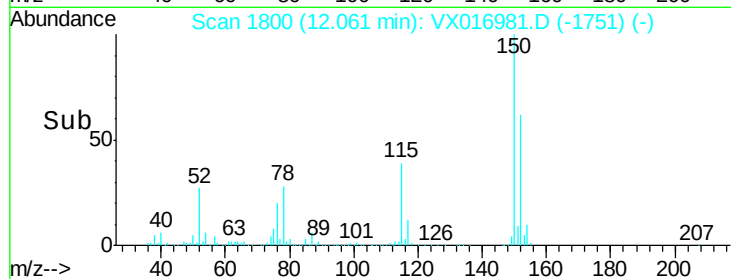
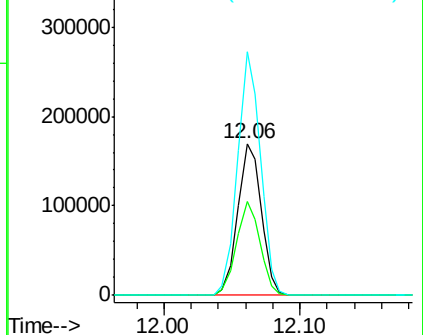
150 156.6 0.0 347.8



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



#73

Isopropylbenzene

Concen: 0.267 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX016981.D

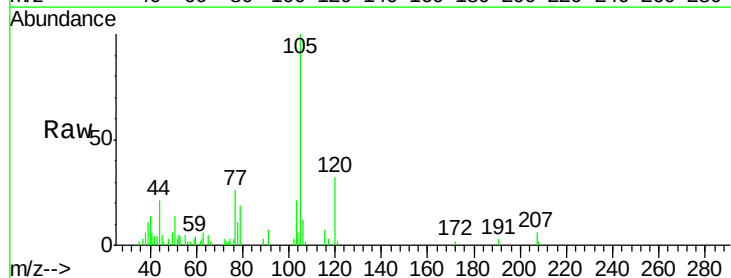
Acq: 26 Jun 2020 14:21

Tgt Ion:105 Resp: 3757

Ion Ratio Lower Upper

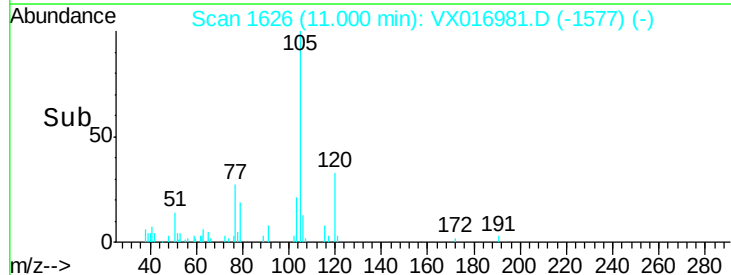
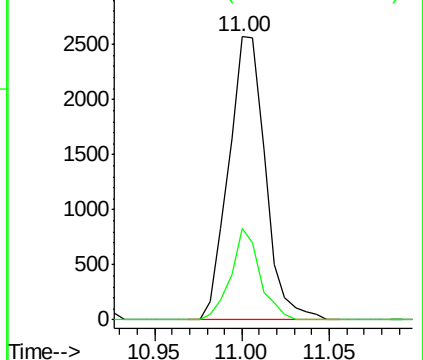
105 100

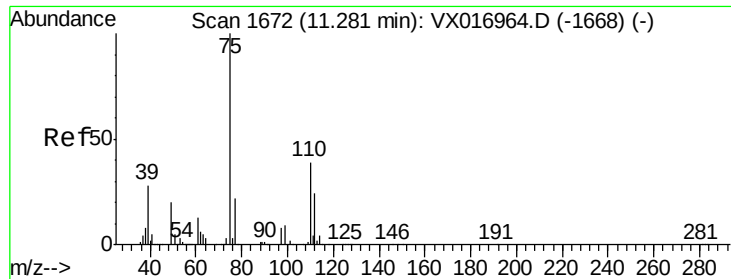
120 25.7 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

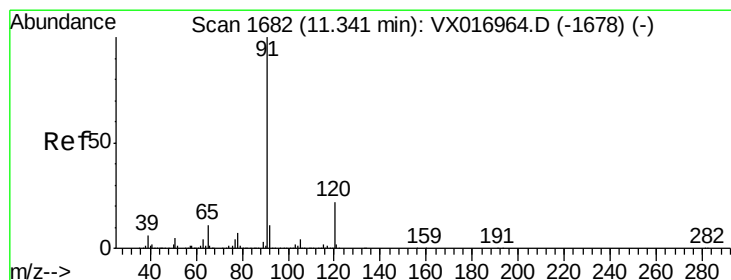
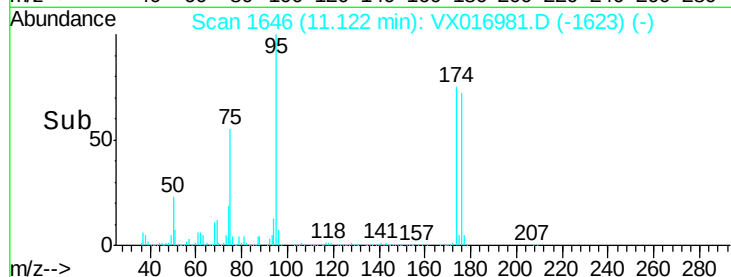
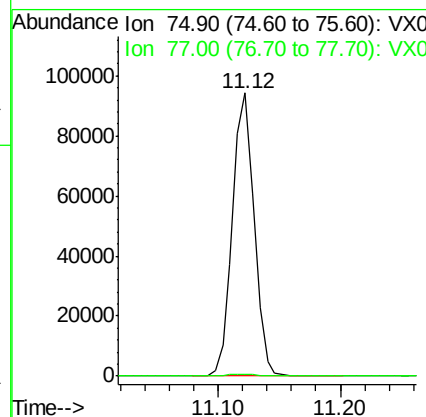
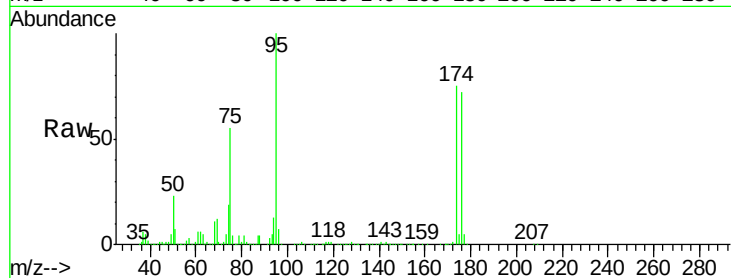




#76  
 1,2,3-Trichloropropane  
 Concen: 26.911 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. -0.16 min  
 Lab File: VX016981.D  
 Acq: 26 Jun 2020 14:21

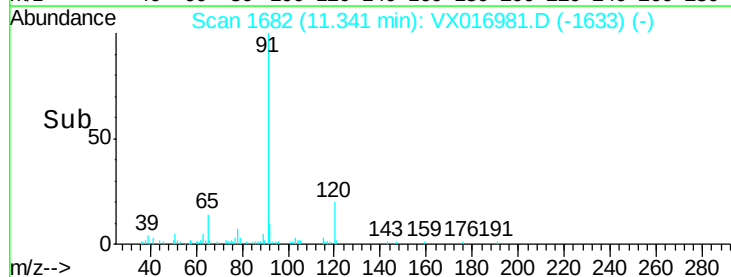
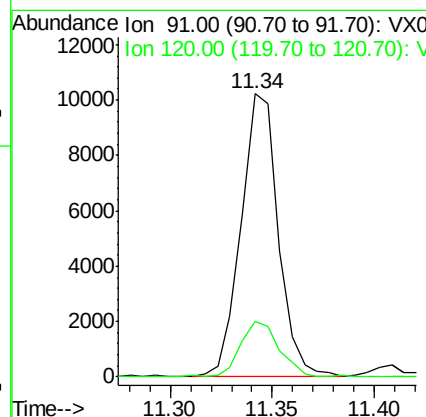
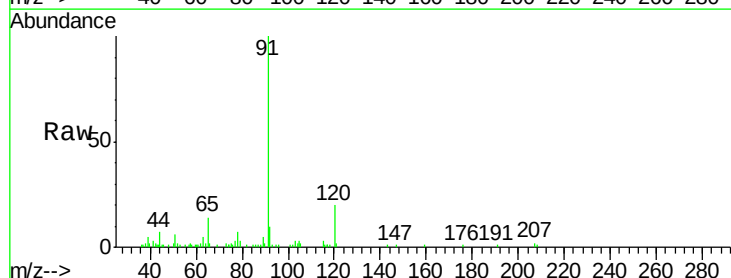
Instrument :  
 MSVOA\_X  
 ClientSampleId :

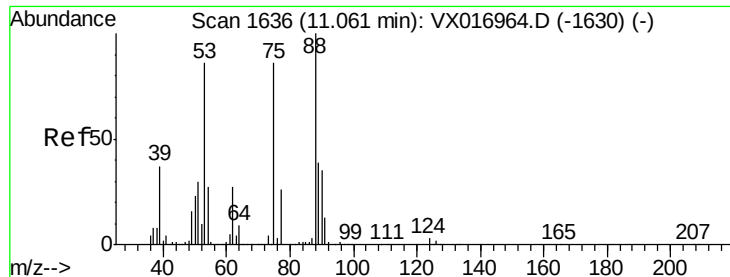
Tot Ion: 75 Resp: 115604  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 20.3 61.0#



#78  
 n-propylbenzene  
 Concen: 0.778 ug/l  
 RT: 11.34 min Scan# 1682  
 Delta R.T. -0.00 min  
 Lab File: VX016981.D  
 Acq: 26 Jun 2020 14:21

Tgt Ion: 91 Resp: 12949  
 Ion Ratio Lower Upper  
 91 100  
 120 20.3 11.3 33.8





#81

trans-1,4-Dichloro-2-butene

Concen: 68.323 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Instrument :

MSVOA\_X

ClientSampleId :

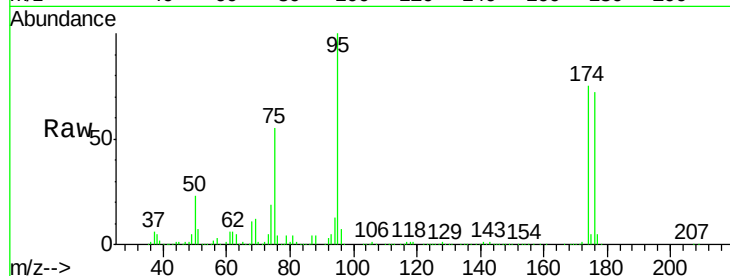
Tot Ion: 75 Resp: 115604

Ion Ratio Lower Upper

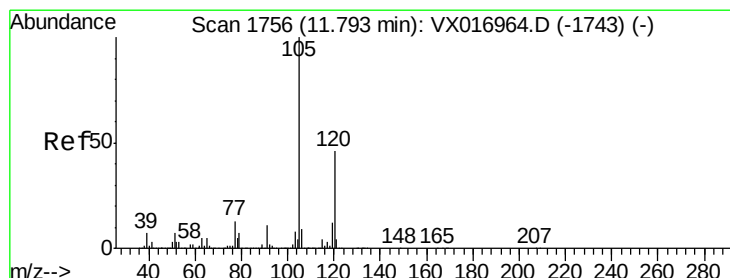
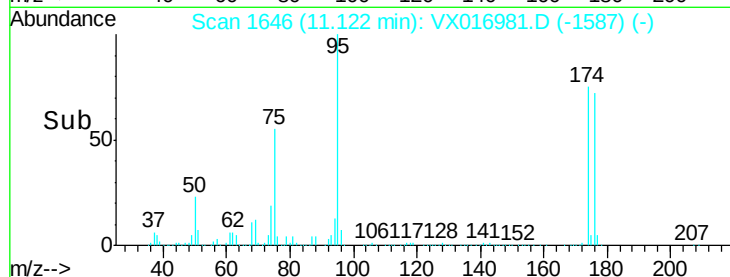
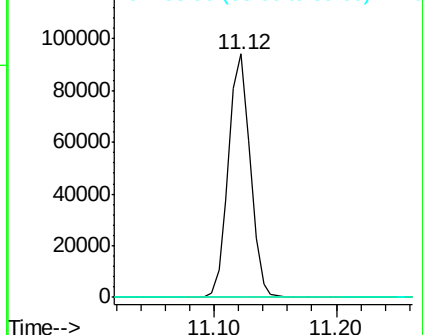
75 100

53 0.2 81.9 122.9#

89 0.1 35.5 53.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.821 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX016981.D

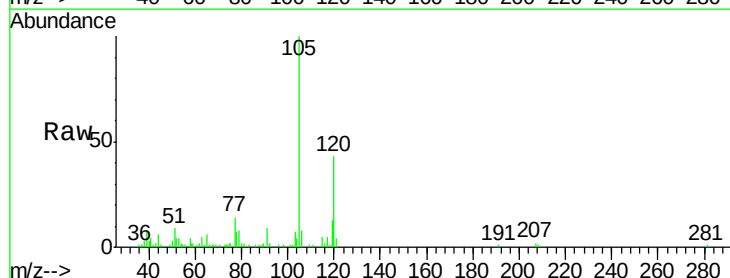
Acq: 26 Jun 2020 14:21

Tgt Ion: 105 Resp: 9729

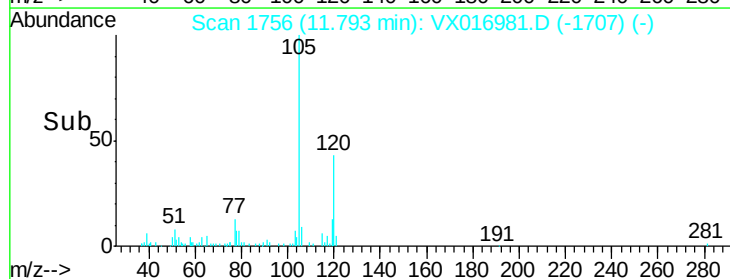
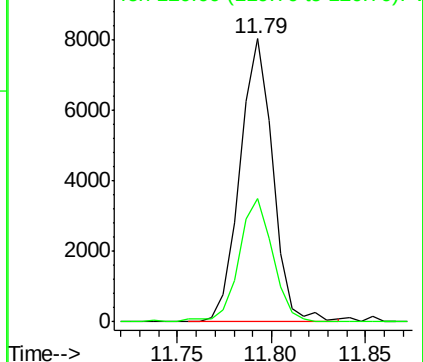
Ion Ratio Lower Upper

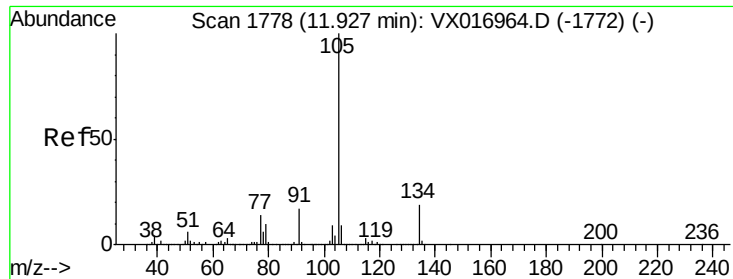
105 100

120 44.7 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.258 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.01 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

Instrument :

MSVOA\_X

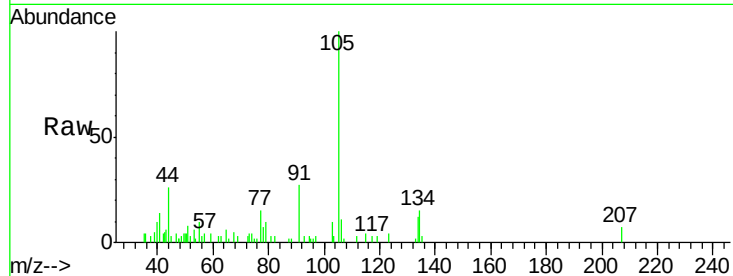
ClientSampled :

Tot Ion:105 Resp: 3430

Ion Ratio Lower Upper

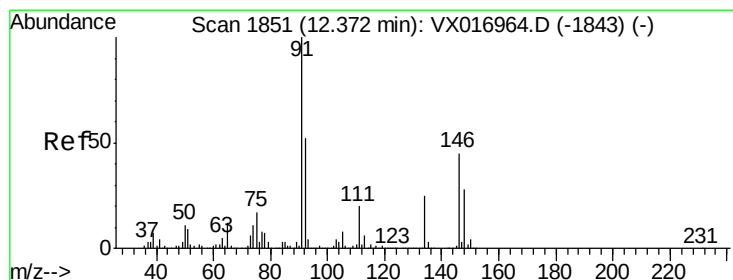
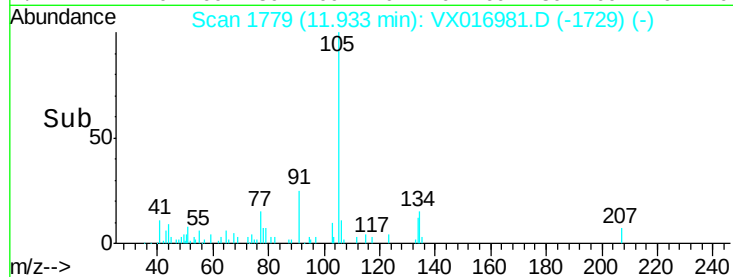
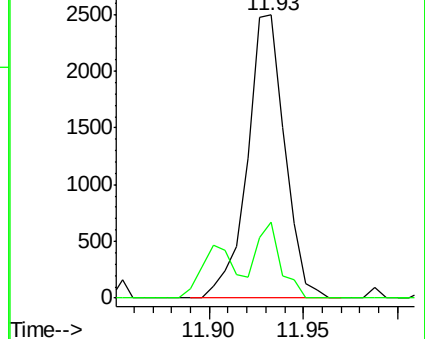
105 100

134 16.7 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 0.257 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX016981.D

Acq: 26 Jun 2020 14:21

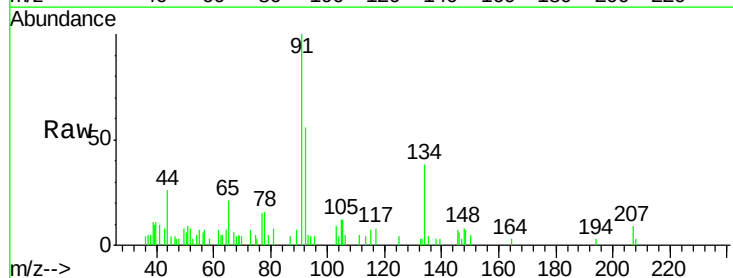
Tgt Ion: 91 Resp: 2944

Ion Ratio Lower Upper

91 100

92 49.7 26.6 79.7

134 41.1 12.6 37.8#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V

