

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072220\  
 Data File : VN062593.D  
 Acq On : 22 Jul 2020 14:23  
 Operator : JC/MD  
 Sample : L3371-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY038PS038-200720

Quant Time: Jul 23 07:16:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 21 18:48:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 175176   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 304097   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 292257   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 102051   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 138498   | 50.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.78% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 102598   | 51.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.72% |          |
| 50) Toluene-d8              | 10.06 | 98   | 394053   | 49.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.88%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 133855   | 45.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.86%  |          |

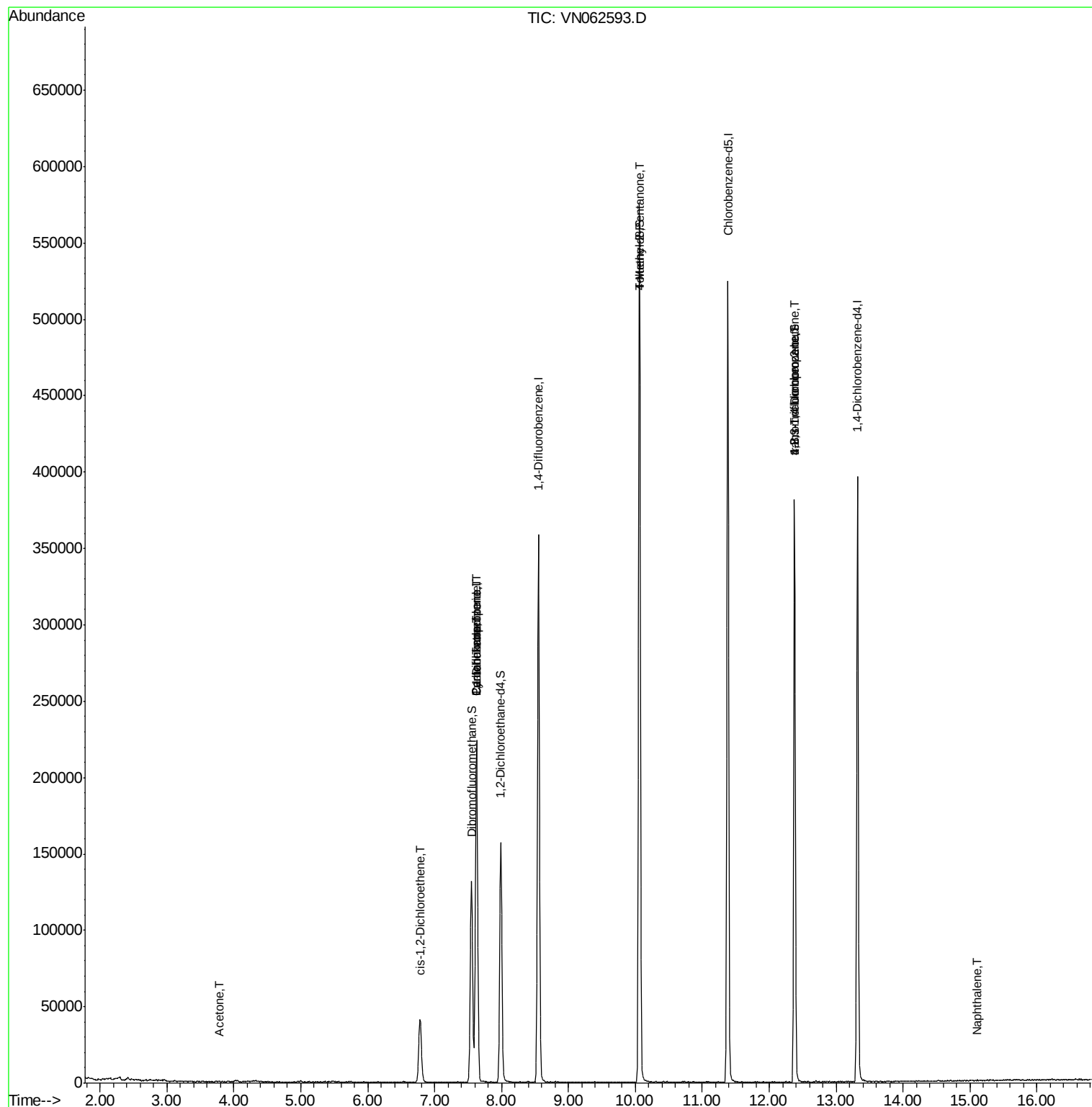
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.78  | 43   | 793      | 0.774  | ug/l # | 44     |
| 27) cis-1,2-Dichloroethene     | 6.79  | 96   | 27217    | 11.457 | ug/l   | 89     |
| 31) Cyclohexane                | 7.63  | 56   | 4391     | 1.095  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 14533    | 4.484  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 17824    | 5.721  | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 1825     | 0.542  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 72214    | 27.801 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 72214    | 77.391 | ug/l # | 12     |
| 95) Naphthalene                | 15.11 | 128  | 100      | 3.782  | ug/l # | 69     |

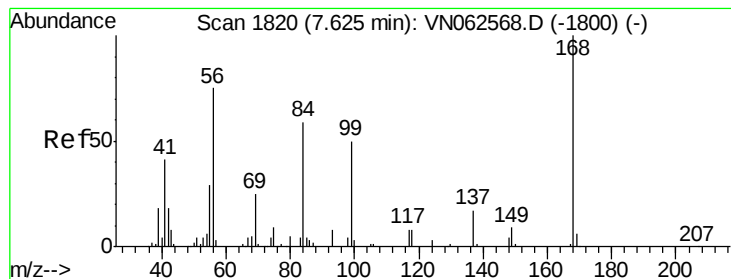
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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KY038PS038-200720

Quant Time: Jul 23 07:16:32 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N072120W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 21 18:48:59 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062593.D

Acq: 22 Jul 2020 14:23

Instrument :

MSVOA\_N

ClientSampleId :

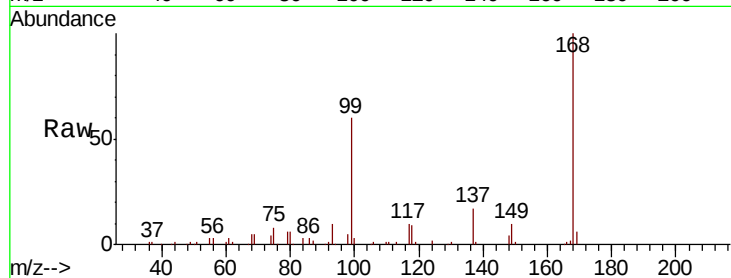
KY038PS038-200720

Tot Ion:168 Resp: 175176

Ion Ratio Lower Upper

168 100

99 60.0 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062568.D

Ion 98.90 (98.60 to 99.60): VN062568.D

7.63

80000

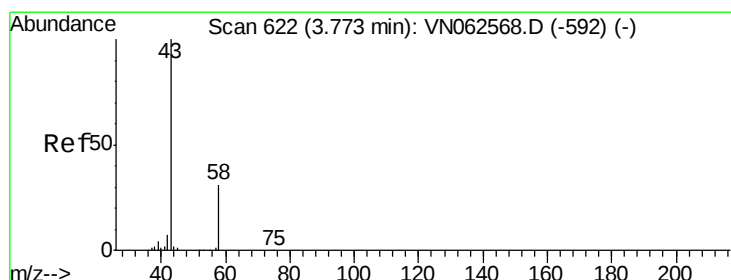
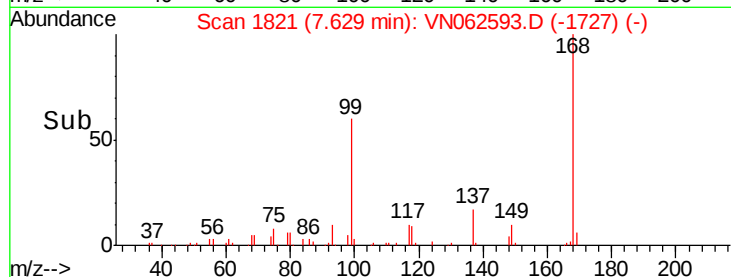
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 0.774 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062593.D

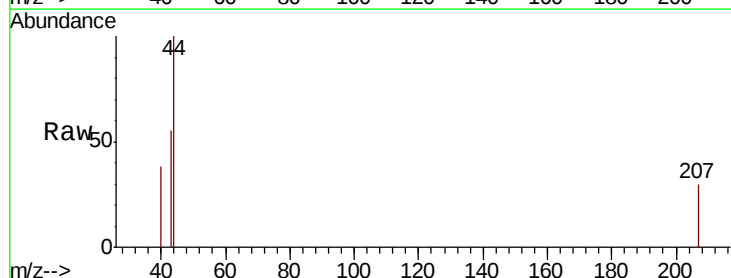
Acq: 22 Jul 2020 14:23

Tgt Ion: 43 Resp: 793

Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062568.D

Ion 58.00 (57.70 to 58.70): VN062568.D

3.78

400

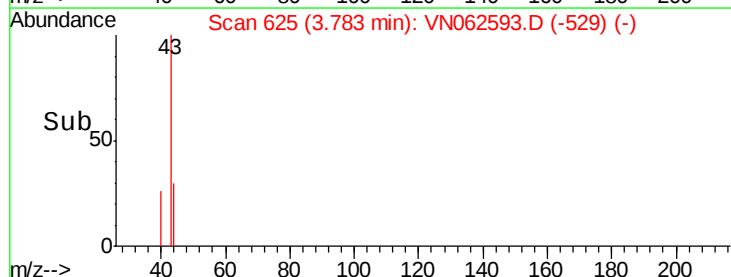
300

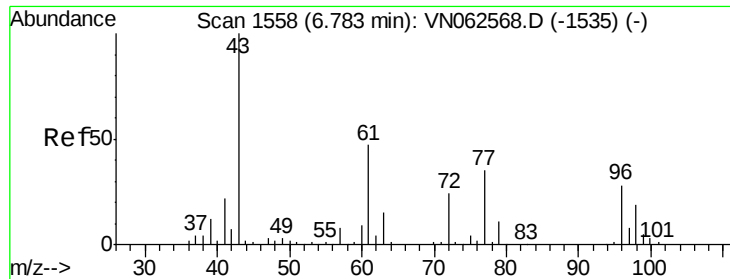
200

100

0

Time--> 3.75 3.80

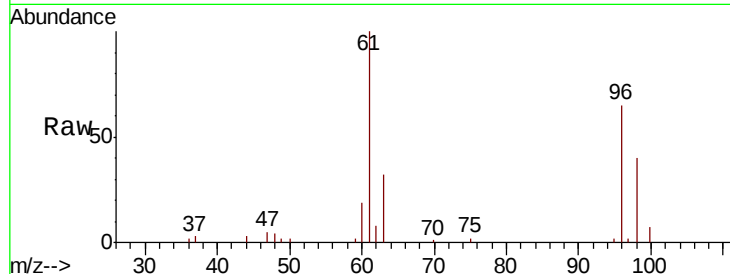




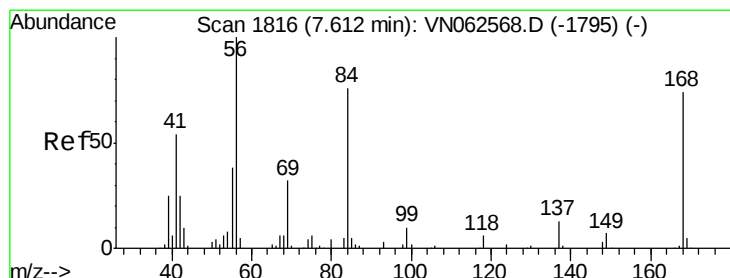
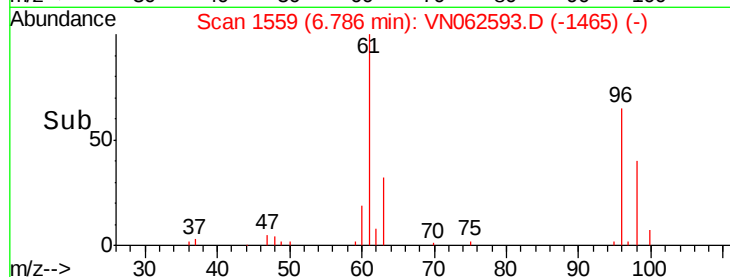
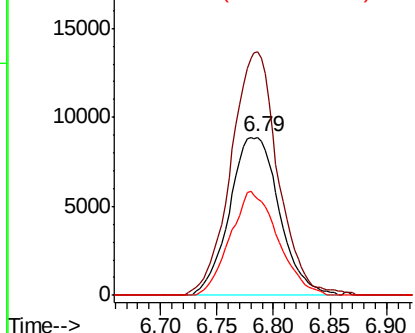
#27  
 cis-1,2-Dichloroethene  
 Concen: 11.457 ug/l  
 RT: 6.79 min Scan# 1559  
 Delta R.T. 0.00 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY038PS038-200720

Tot Ion: 96 Resp: 27217  
 Ion Ratio Lower Upper  
 96 100  
 61 145.4 0.0 332.4  
 98 63.3 0.0 127.4

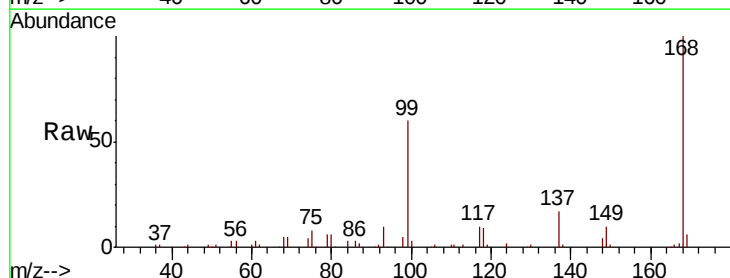


Abundance Ion 95.90 (95.60 to 96.60): VN0  
 Ion 60.90 (60.60 to 61.60): VN0  
 Ion 97.90 (97.60 to 98.60): VN0

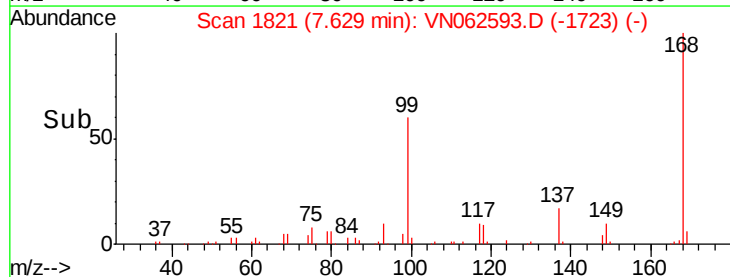
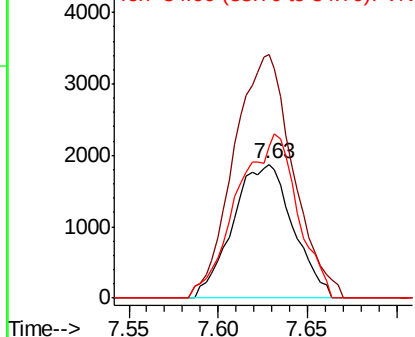


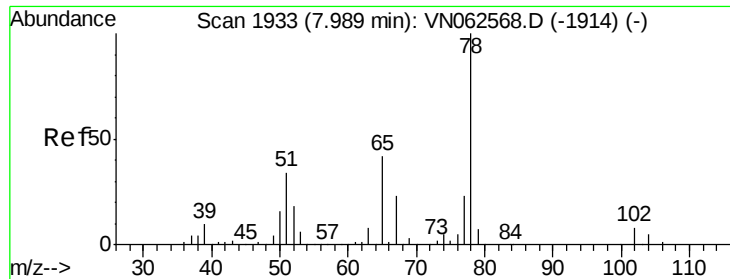
#31  
 Cyclohexane  
 Concen: 1.095 ug/l  
 RT: 7.63 min Scan# 1821  
 Delta R.T. 0.02 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

Tgt Ion: 56 Resp: 4391  
 Ion Ratio Lower Upper  
 56 100  
 69 182.1 25.3 37.9#  
 84 113.0 61.0 91.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0  
 Ion 69.00 (68.70 to 69.70): VN0  
 Ion 84.00 (83.70 to 84.70): VN0

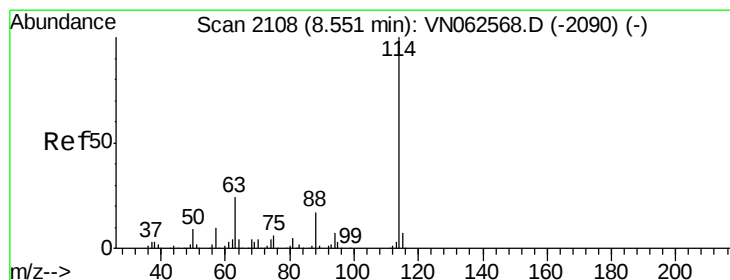
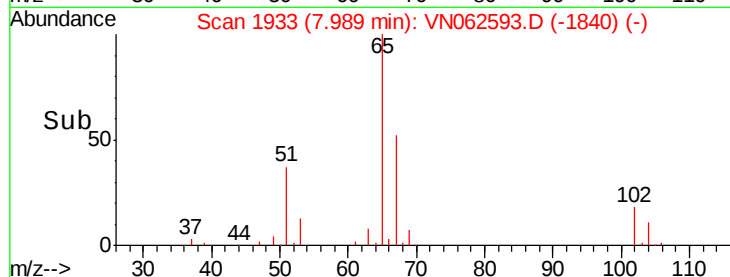
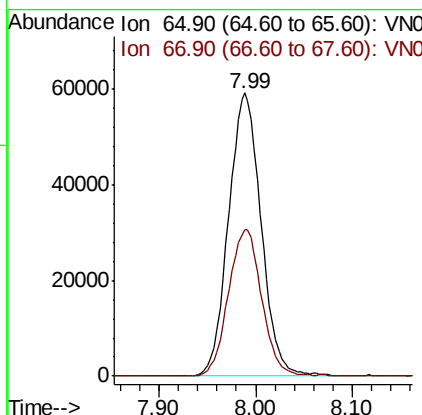
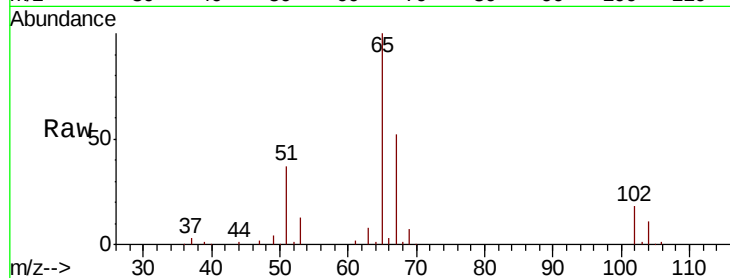




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.895 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. 0.00 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

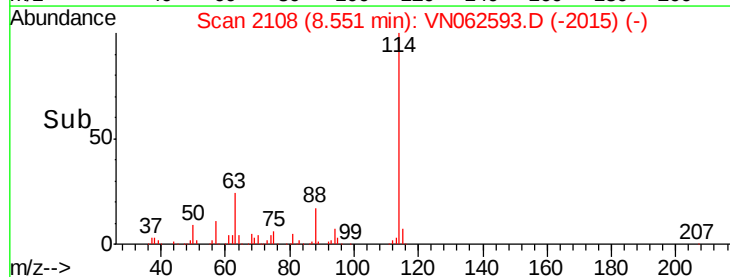
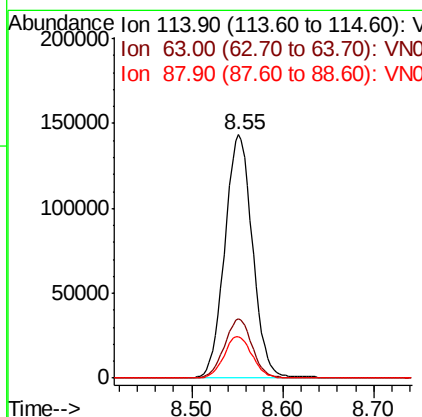
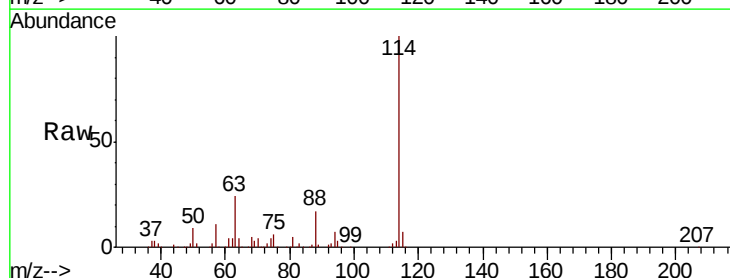
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 KY038PS038-200720

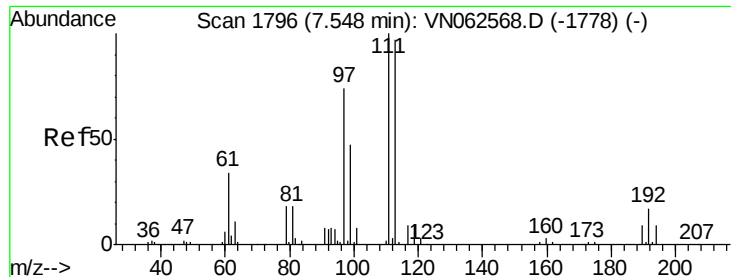
Tot Ion: 65 Resp: 138498  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 106.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. 0.00 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

Tgt Ion: 114 Resp: 304097  
 Ion Ratio Lower Upper  
 114 100  
 63 24.4 0.0 48.4  
 88 16.8 0.0 33.8

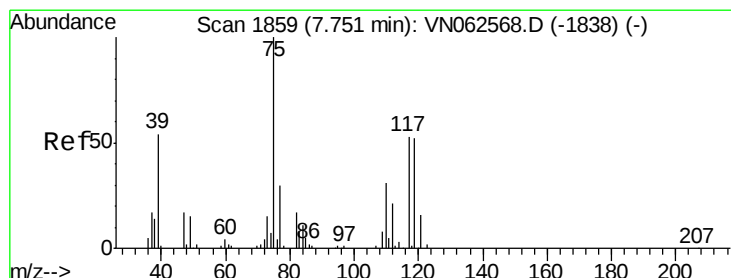
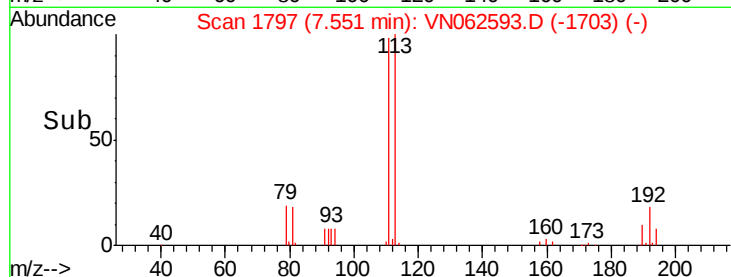
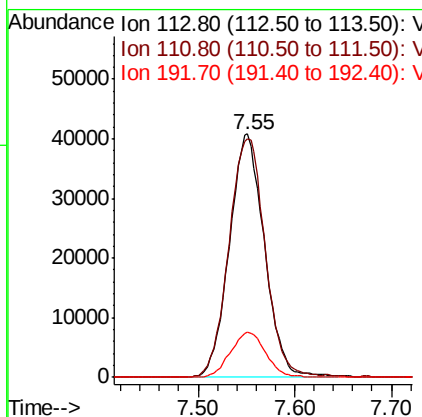
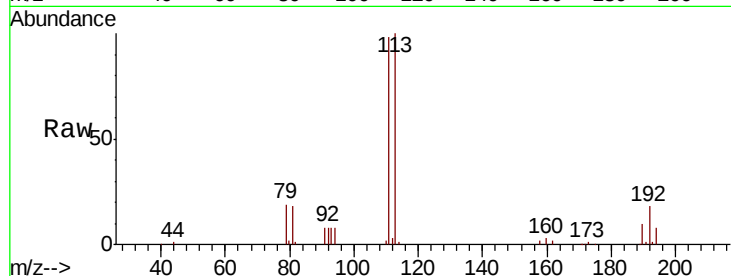




#35  
 Dibromofluoromethane  
 Concen: 51.364 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. 0.00 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

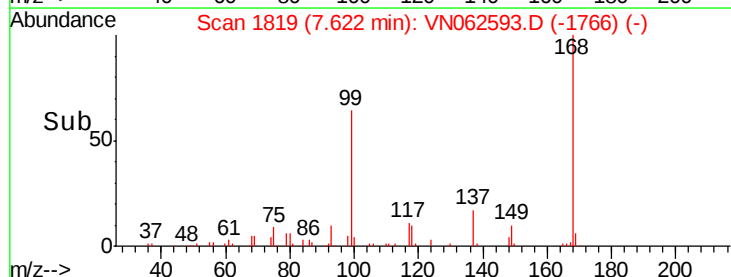
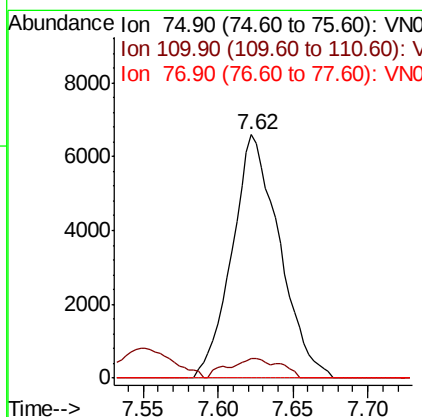
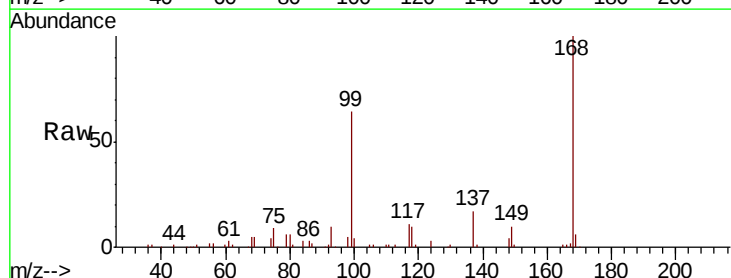
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY038PS038-200720

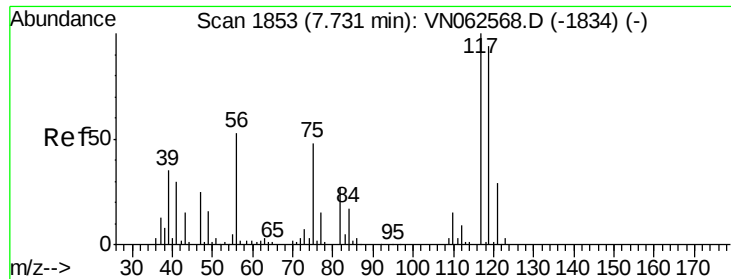
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 82.7  | 124.1 |
| 192     | 18.5  | 14.8  | 22.2  |



#36  
 1,1-Dichloropropene  
 Concen: 4.484 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.13 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.8   | 16.0  | 48.0# |
| 77      | 0.0   | 24.6  | 36.8# |





#38

Carbon Tetrachloride

Concen: 5.721 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062593.D

Acq: 22 Jul 2020 14:23

Instrument :

MSVOA\_N

ClientSampleId :

KY038PS038-200720

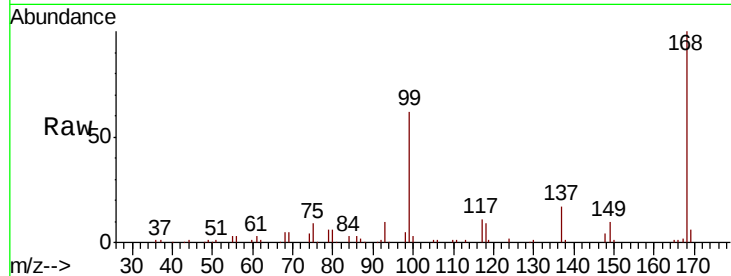
Tot Ion:117 Resp: 17824

Ion Ratio Lower Upper

117 100

119 5.4 74.8 112.2#

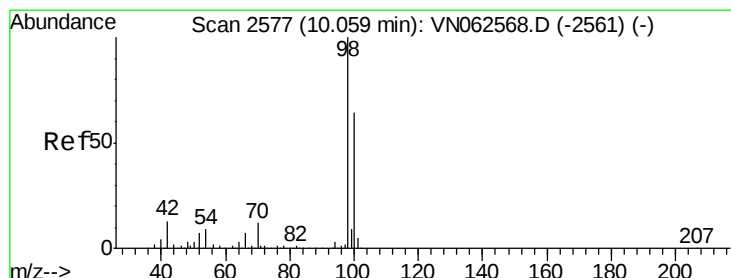
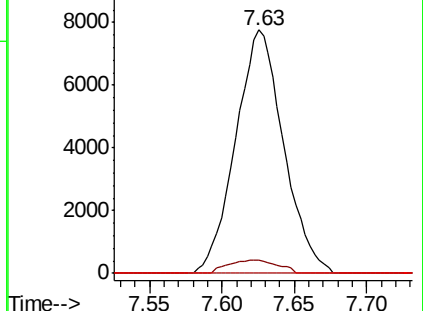
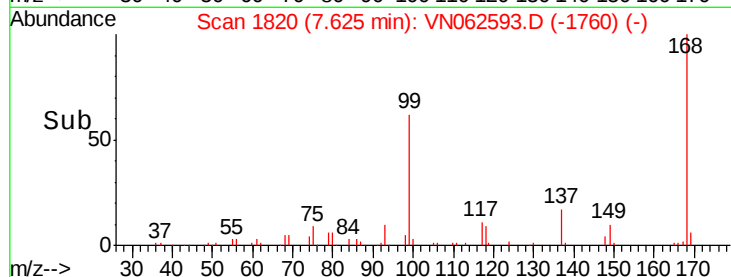
121 0.0 23.0 34.6#



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: 49.443 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062593.D

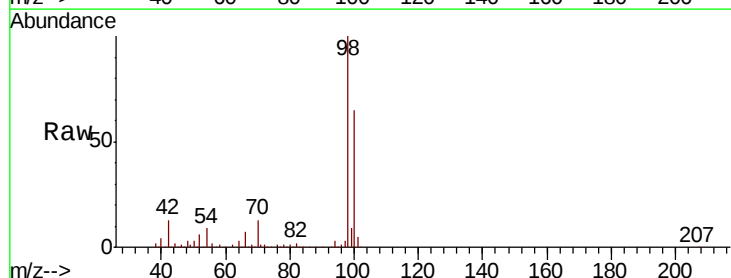
Acq: 22 Jul 2020 14:23

Tgt Ion: 98 Resp: 394053

Ion Ratio Lower Upper

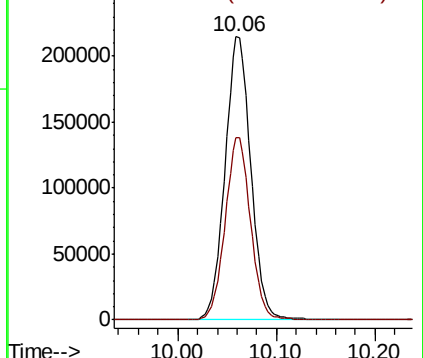
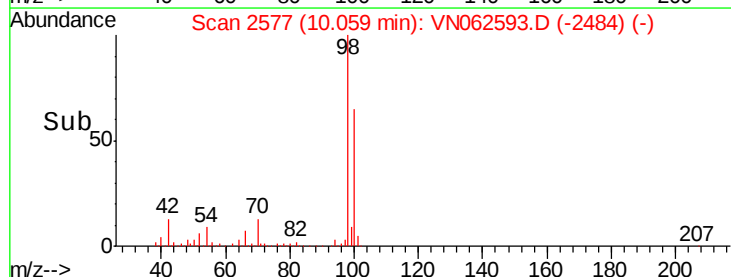
98 100

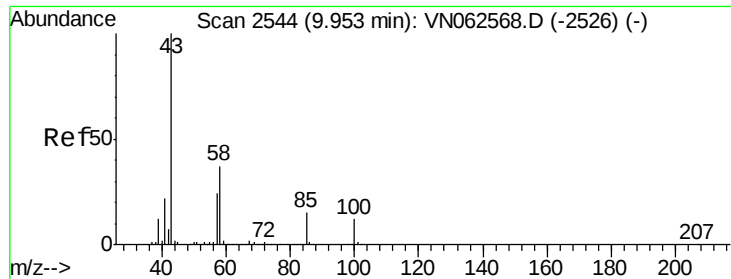
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

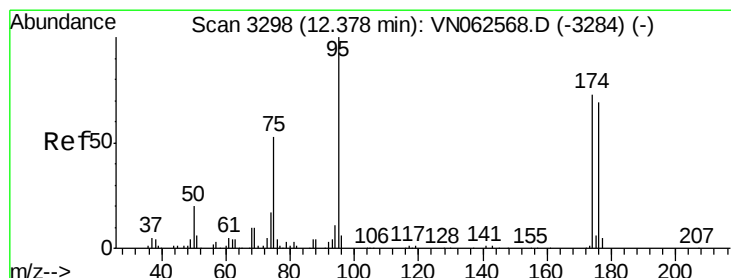
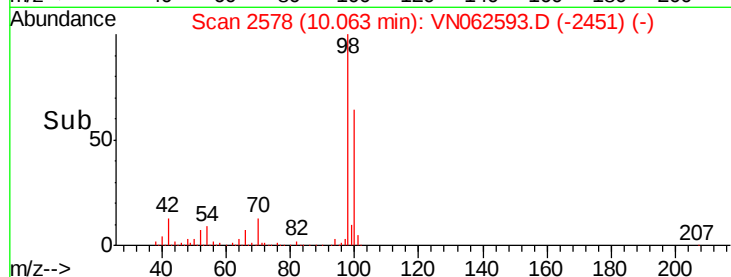
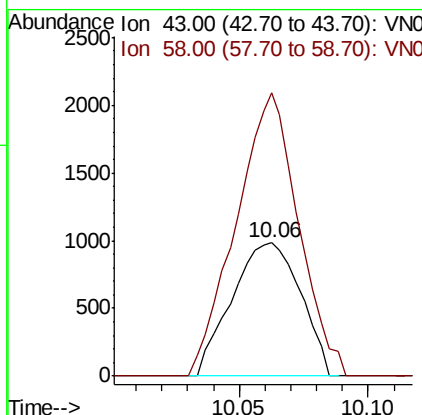
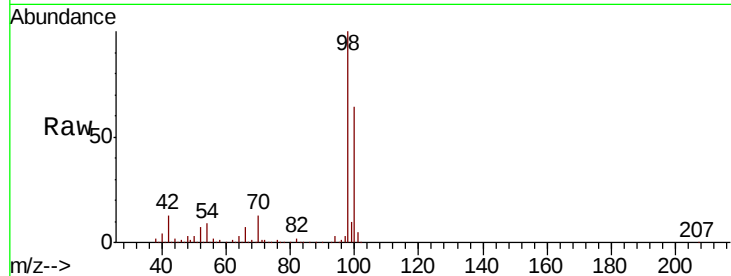




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.542 ug/l  
 RT: 10.06 min Scan# 2578  
 Delta R.T. 0.11 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

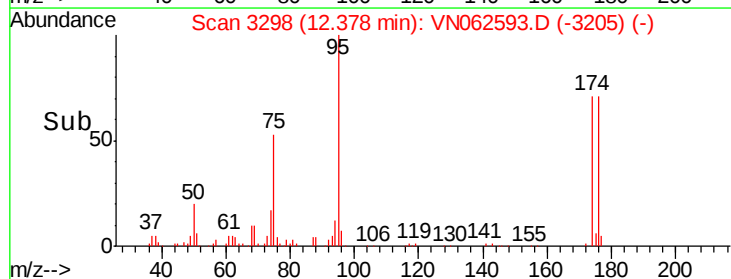
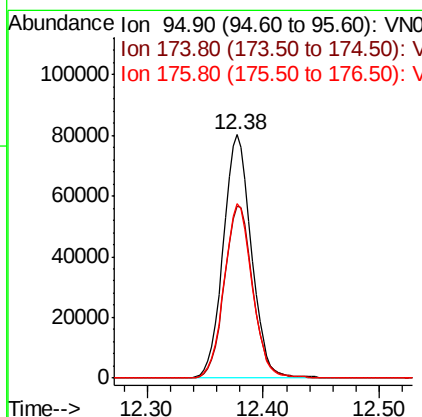
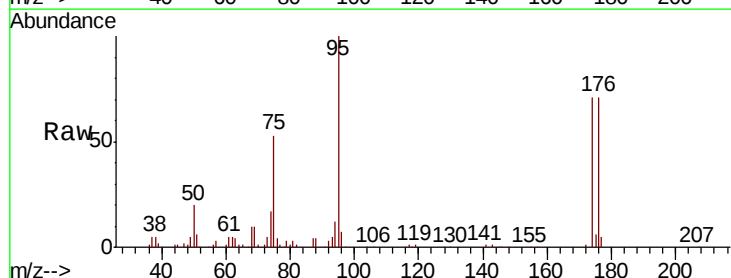
Instrument :  
 MSVOA\_N  
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 KY038PS038-200720

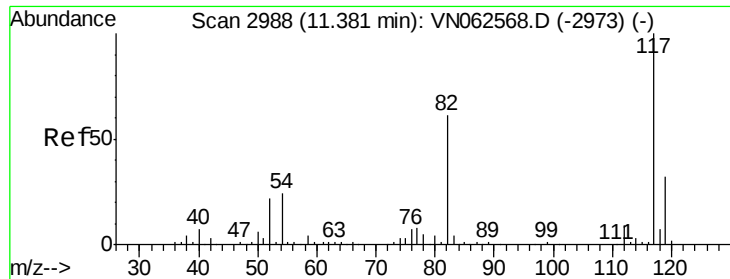
Tot Ion: 43 Resp: 1825  
 Ion Ratio Lower Upper  
 43 100  
 58 193.1 29.8 44.6#



#62  
 4-Bromofluorobenzene  
 Concen: 45.933 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. 0.00 min  
 Lab File: VN062593.D  
 Acq: 22 Jul 2020 14:23

Tgt Ion: 95 Resp: 133855  
 Ion Ratio Lower Upper  
 95 100  
 174 71.8 0.0 144.6  
 176 71.8 0.0 139.4

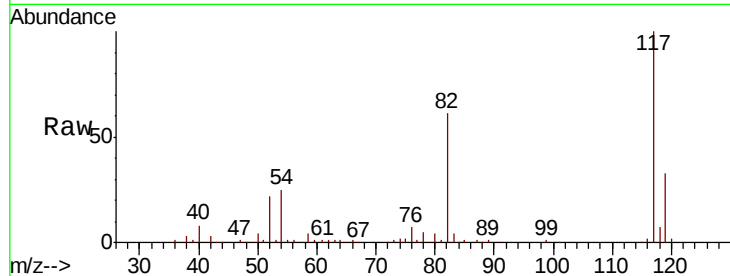




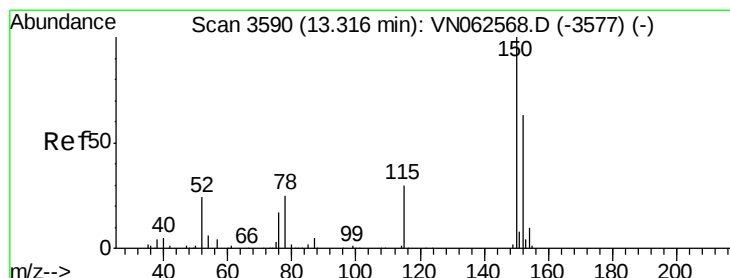
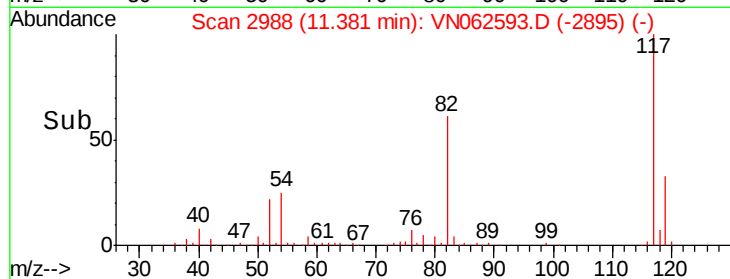
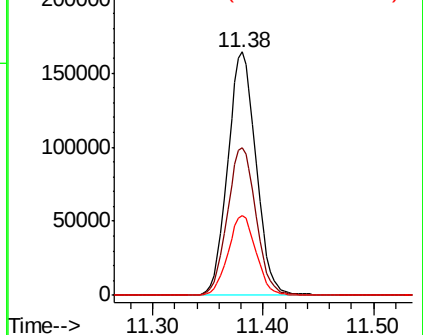
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. 0.00 min  
Lab File: VN062593.D  
Acq: 22 Jul 2020 14:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS038-200720

Tot Ion:117 Resp: 292257  
Ion Ratio Lower Upper  
117 100  
82 60.6 49.0 73.6  
119 33.0 25.4 38.2

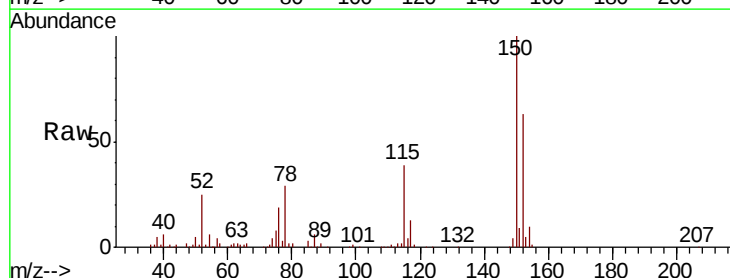


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

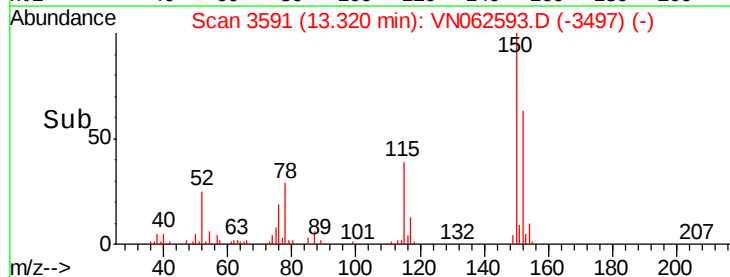
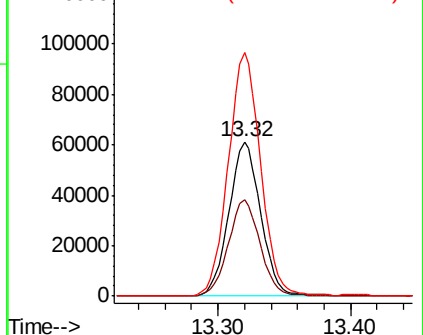


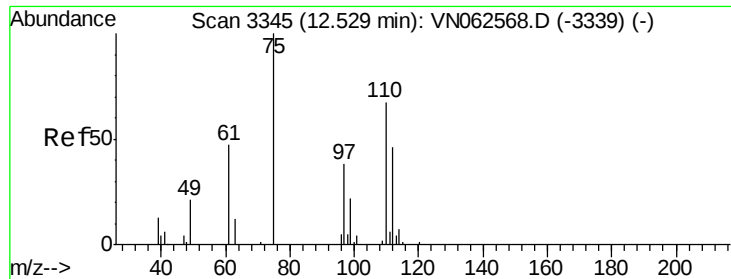
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN062593.D  
Acq: 22 Jul 2020 14:23

Tgt Ion:152 Resp: 102051  
Ion Ratio Lower Upper  
152 100  
115 62.5 31.8 95.4  
150 160.4 0.0 351.4



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: 27.801 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062593.D

Acq: 22 Jul 2020 14:23

Instrument :

MSVOA\_N

ClientSampleId :

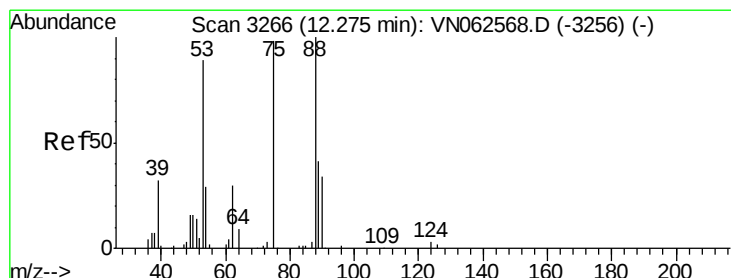
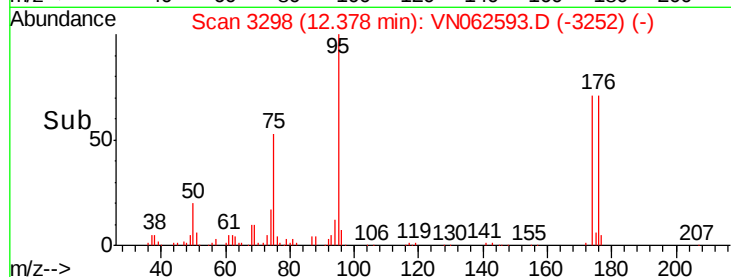
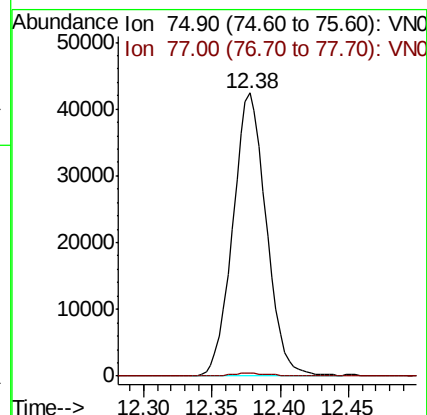
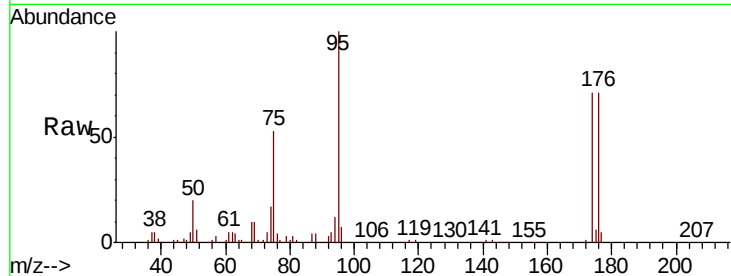
KY038PS038-200720

Tot Ion: 75 Resp: 72214

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.391 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062593.D

Acq: 22 Jul 2020 14:23

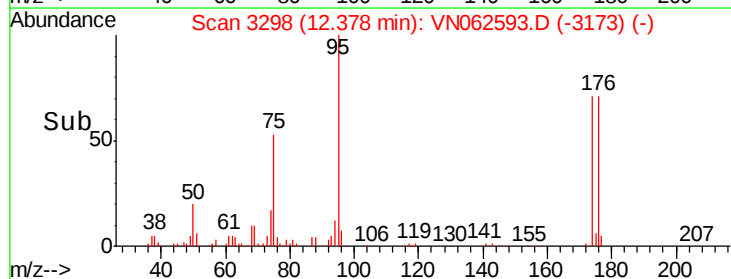
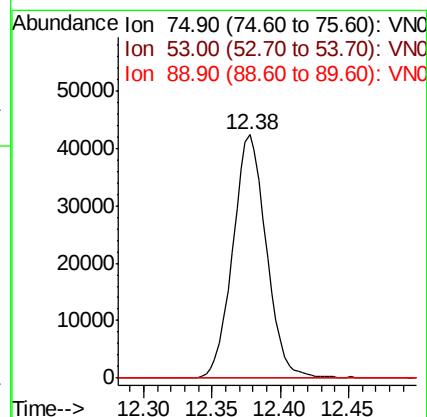
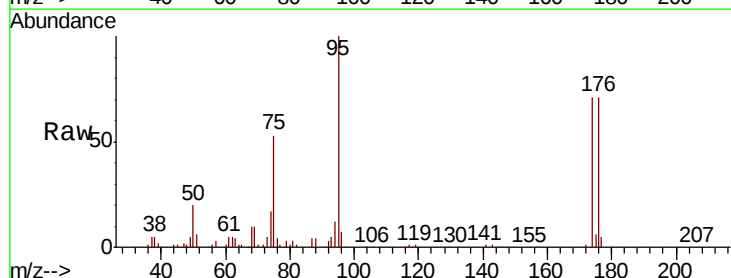
Tgt Ion: 75 Resp: 72214

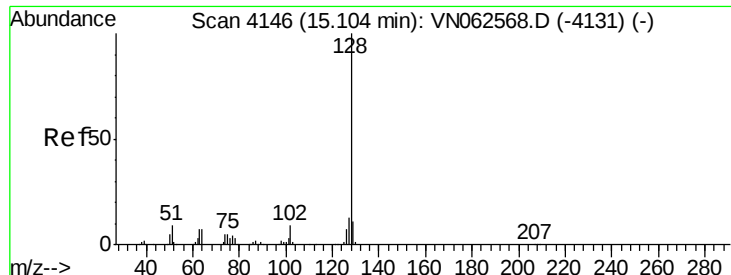
Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 3.782 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062593.D

Acq: 22 Jul 2020 14:23

Instrument :

MSVOA\_N

ClientSampleId :

KY038PS038-200720

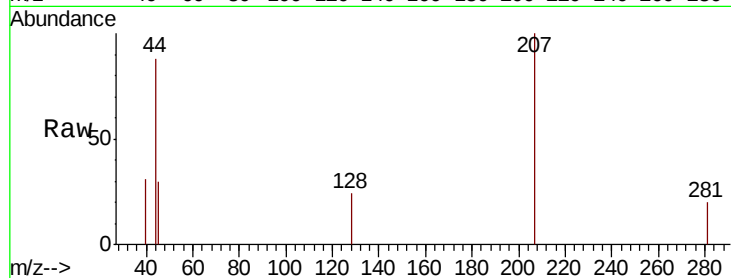
Tot Ion:128 Resp: 100

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

