

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112120\  
 Data File : VX019520.D  
 Acq On : 21 Nov 2020 02:23  
 Operator : JC/MD  
 Sample : L4779-05 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 1555

Manual Integrations  
 APPROVED

MMDadoda  
 11/23/2020 11:05:55 AM

Quant Time: Nov 21 06:17:12 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112120W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 21 01:57:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 306365   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 498201   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 426215   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 183012   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65    | 183961   | 46.31    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 92.62% |
| 35) Dibromofluoromethane  | 5.46   | 113   | 147480   | 47.16    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 94.32% |
| 50) Toluene-d8            | 8.70   | 98    | 584383   | 48.09    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 96.18% |
| 62) 4-Bromofluorobenzene  | 11.12  | 95    | 196300   | 44.90    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 89.80% |

## Target Compounds

|                            |       |     |        |        | Qvalue |
|----------------------------|-------|-----|--------|--------|--------|
| 11) Tert butyl alcohol     | 2.99  | 59  | 11459m | 15.243 | ug/l   |
| 16) Acetone                | 2.43  | 43  | 6907   | 4.496  | ug/l   |
| 18) Methyl Acetate         | 2.76  | 43  | 1322   | 0.981  | ug/l   |
| 25) 2-Butanone             | 4.65  | 43  | 2213   | 0.959  | ug/l # |
| 52) Toluene                | 8.76  | 92  | 14274  | 1.626  | ug/l   |
| 68) m/p-Xylenes            | 10.34 | 106 | 3575   | 0.625  | ug/l   |
| 69) o-Xylene               | 10.68 | 106 | 2922   | 0.534  | ug/l   |
| 80) 1,3,5-Trimethylbenzene | 11.49 | 105 | 5142   | 0.484  | ug/l   |
| 84) 1,2,4-Trimethylbenzene | 11.79 | 105 | 21371  | 1.989  | ug/l   |

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

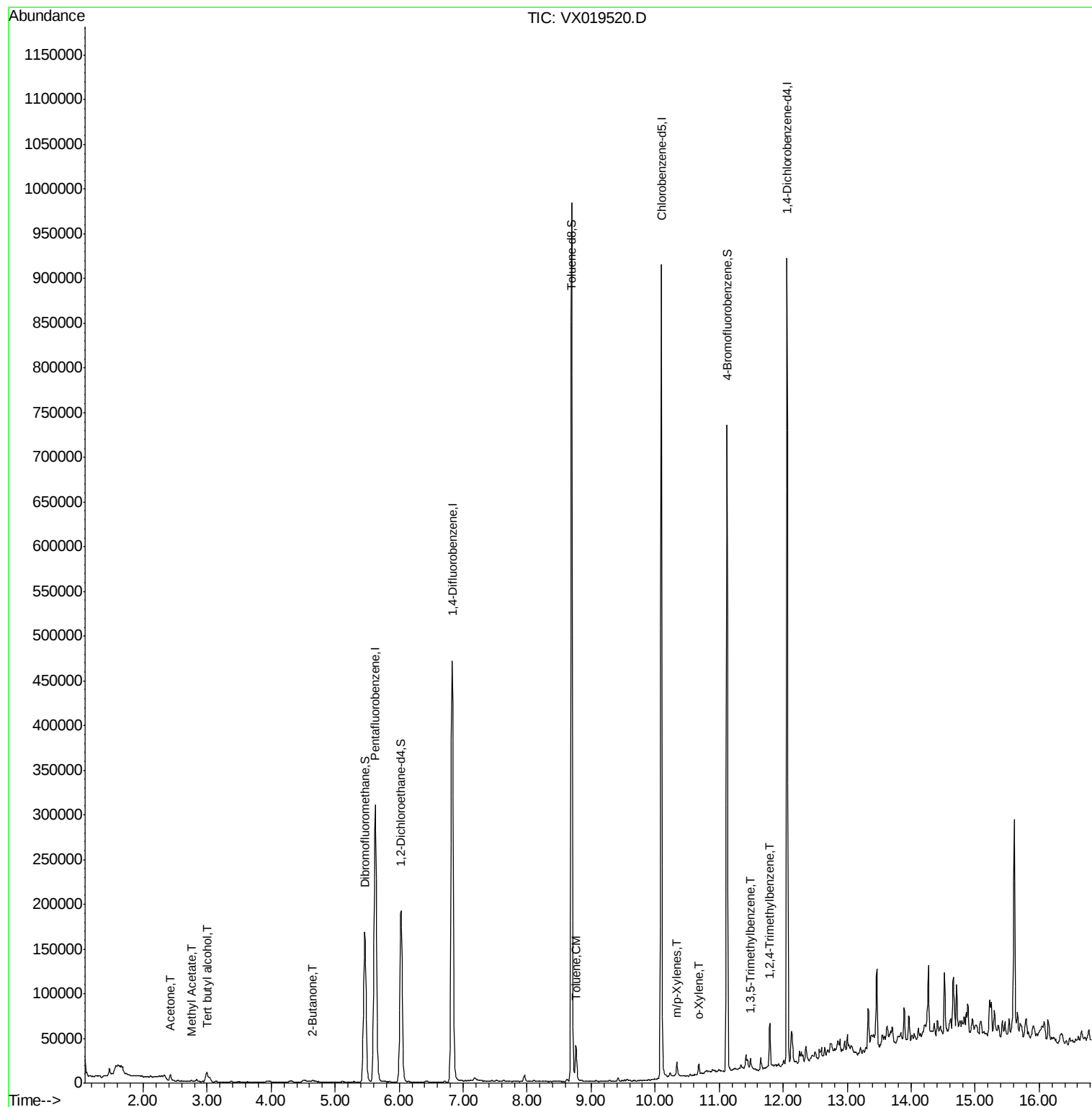
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112120\  
Data File : VX019520.D  
Acq On : 21 Nov 2020 02:23  
Operator : JC/MD  
Sample : L4779-05 10X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 39 Sample Multiplier: 1

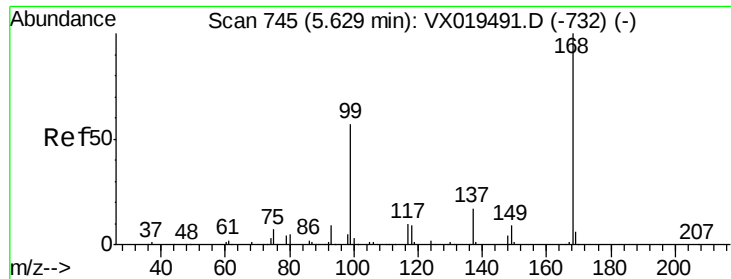
Instrument :  
MSVOA\_X  
ClientSampleId :  
1555

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Quant Time: Nov 21 06:17:12 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X112120W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 21 01:57:45 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA\_X

ClientSampled :

1555

Tot Ion:168 Resp: 306365

Ion Ratio Lower Upper

168 100

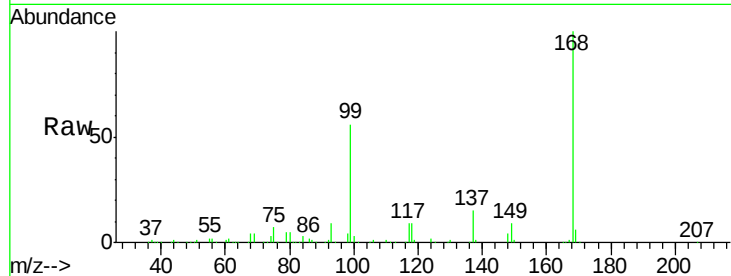
99 55.7 45.8 68.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

60000

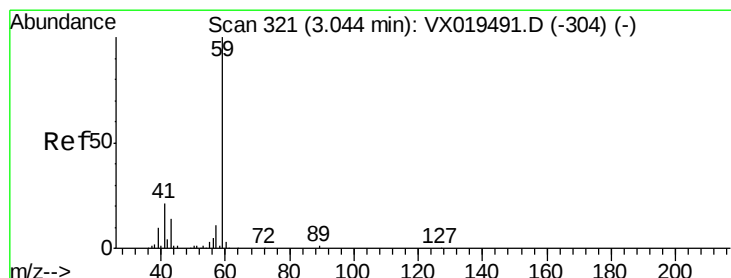
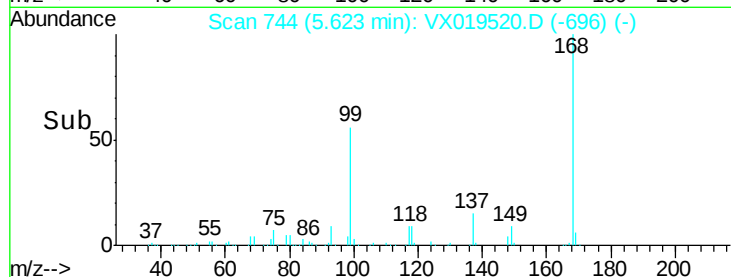
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 15.243 ug/l m

RT: 2.99 min Scan# 313

Delta R.T. -0.05 min

Lab File: VX019520.D

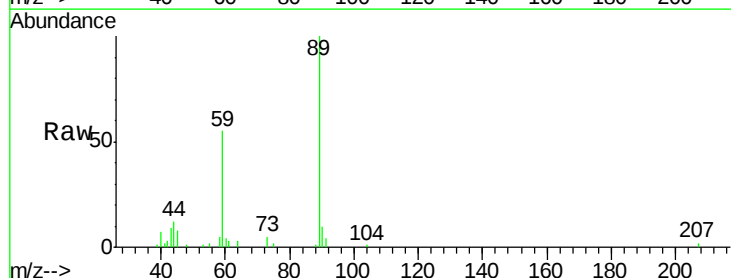
Acq: 21 Nov 2020 02:23

Tgt Ion: 59 Resp: 11459

Ion Ratio Lower Upper

59 100

57 0.7 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2.99

3000

2500

2000

1500

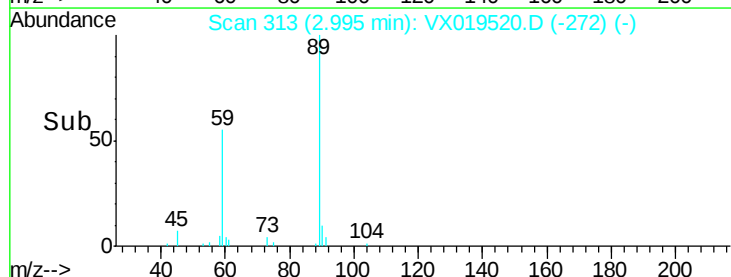
1000

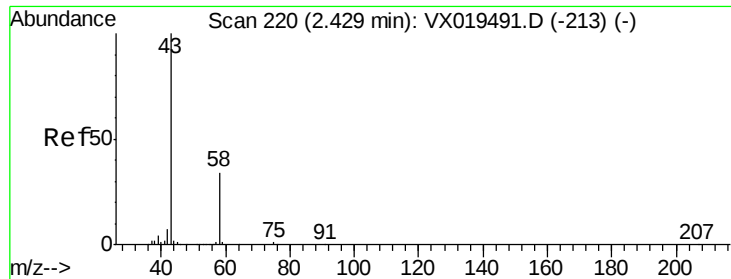
500

0

Time-->

2.90 3.00 3.10





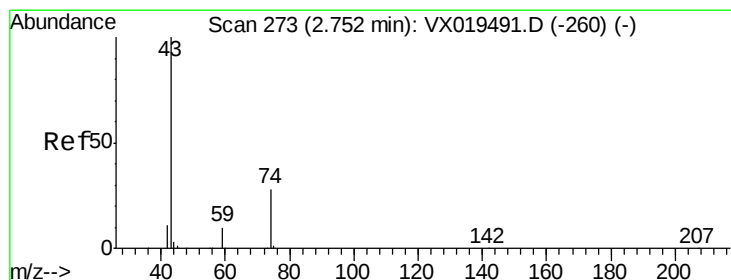
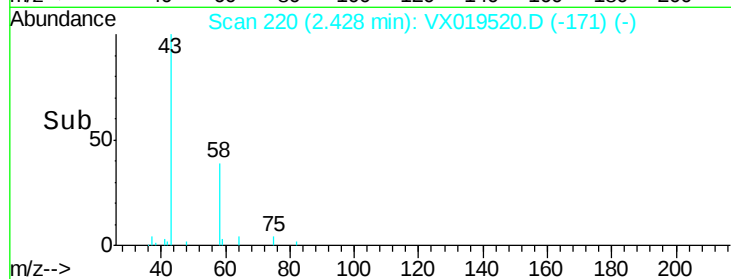
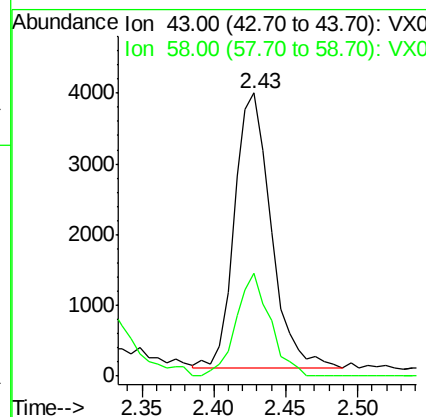
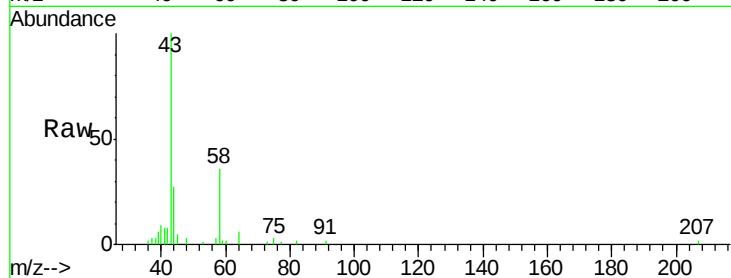
#16  
Acetone  
Concen: 4.496 ug/l  
RT: 2.43 min Scan# 220  
Delta R.T. -0.00 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

Instrument :  
MSVOA\_X  
ClientSampleId :  
1555

Tot Ion: 43 Resp: 6907  
Ion Ratio Lower Upper  
43 100  
58 37.3 27.4 41.2

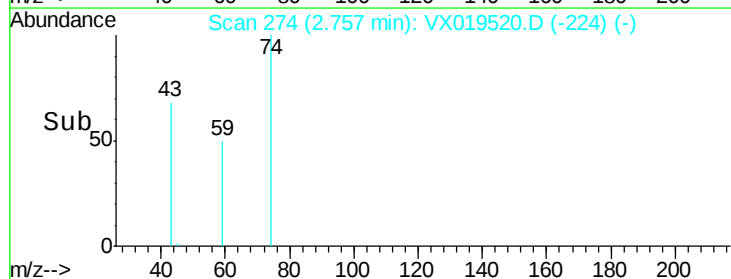
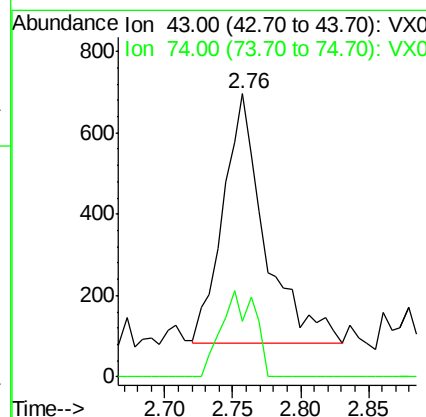
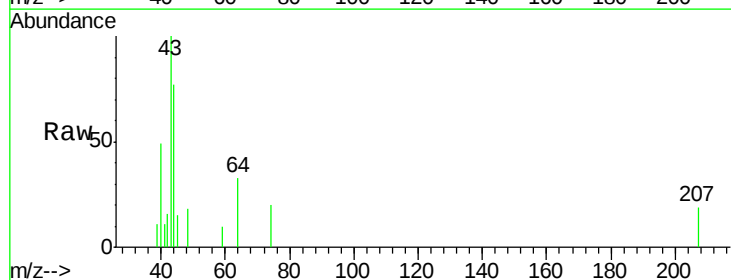
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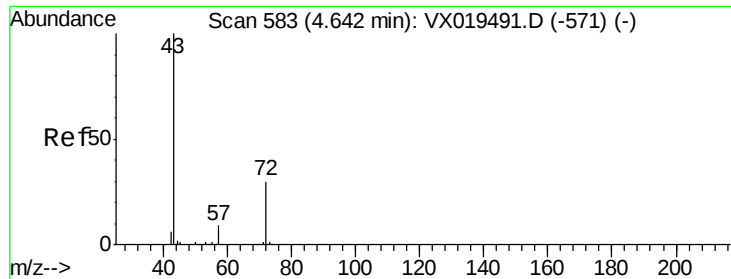
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#18  
Methyl Acetate  
Concen: 0.981 ug/l  
RT: 2.76 min Scan# 274  
Delta R.T. 0.01 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

Tgt Ion: 43 Resp: 1322  
Ion Ratio Lower Upper  
43 100  
74 27.2 22.2 33.4





#25

2-Butanone

Concen: 0.959 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA\_X

ClientSampled :

1555

Tot Ion: 43 Resp: 2213

Ion Ratio Lower Upper

43 100

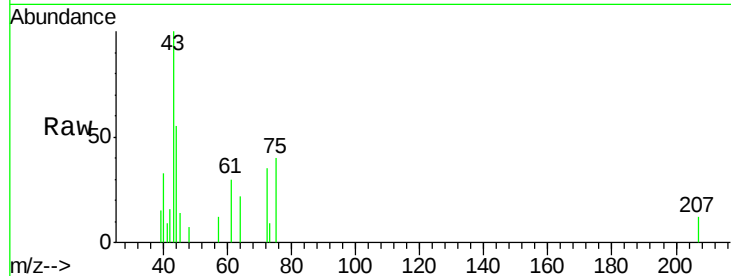
72 37.2 24.0 36.0#

Manual Integrations

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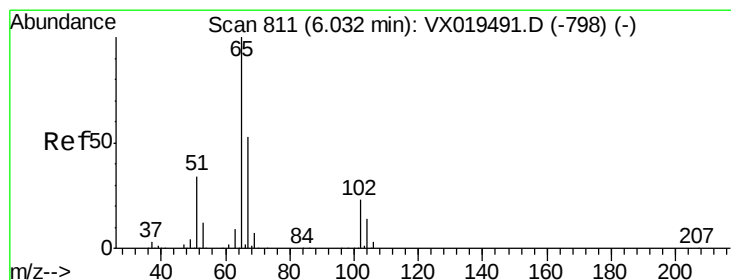
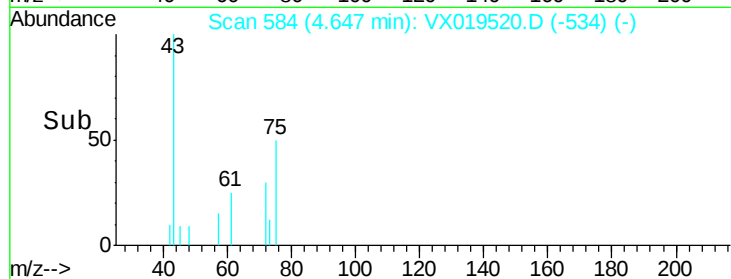
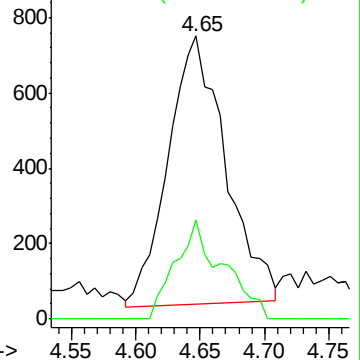
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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.311 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019520.D

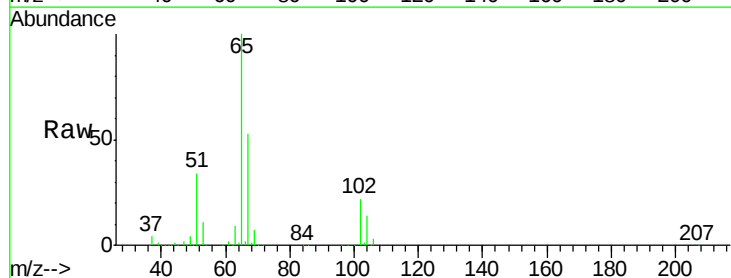
Acq: 21 Nov 2020 02:23

Tgt Ion: 65 Resp: 183961

Ion Ratio Lower Upper

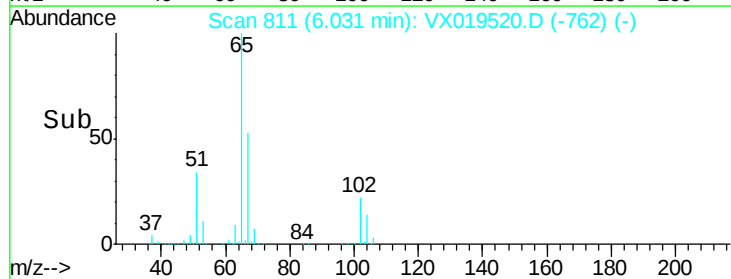
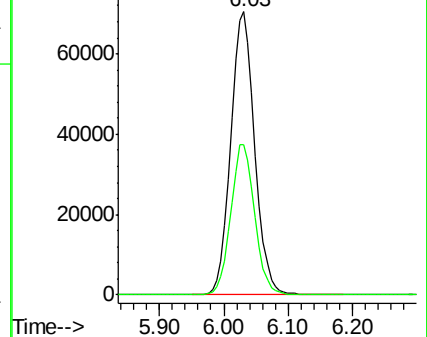
65 100

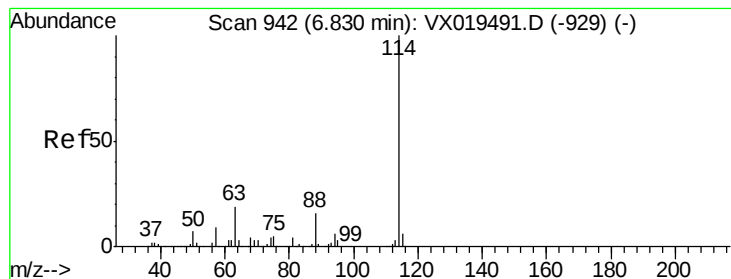
67 53.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA\_X

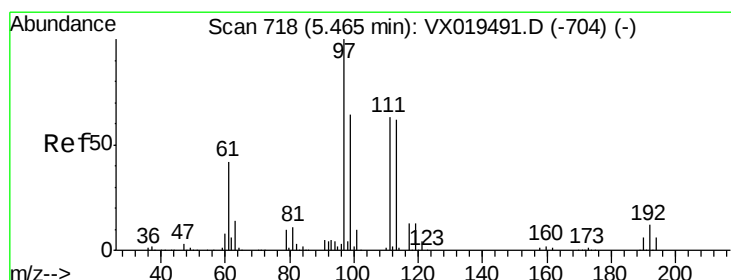
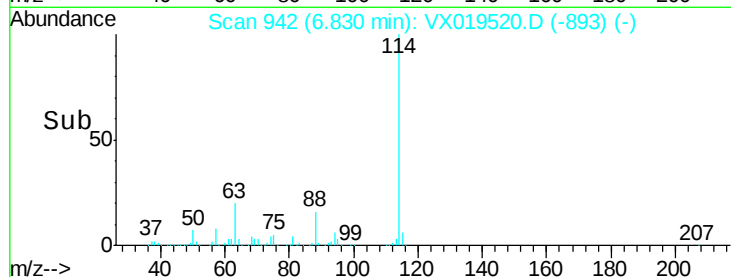
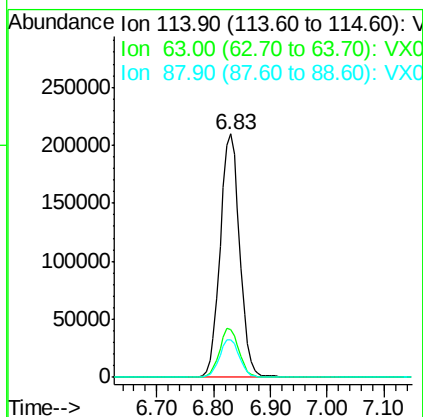
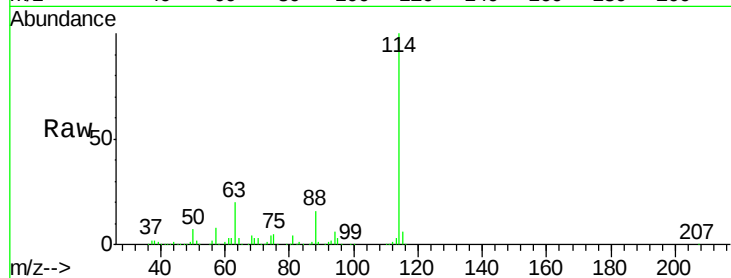
ClientSampleId :

1555

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 498201 |       |       |
| 63      | 19.5  |        | 0.0   | 38.8  |
| 88      | 15.6  |        | 0.0   | 31.6  |

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#35

Dibromofluoromethane

Concen: 47.160 ug/l

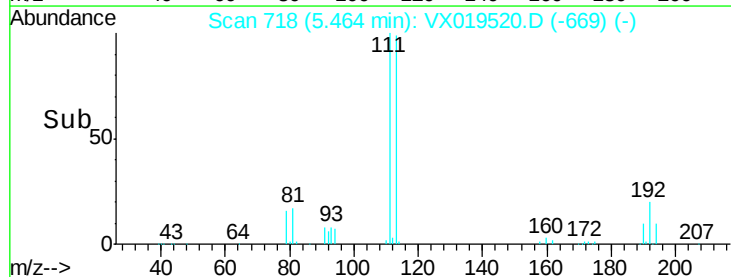
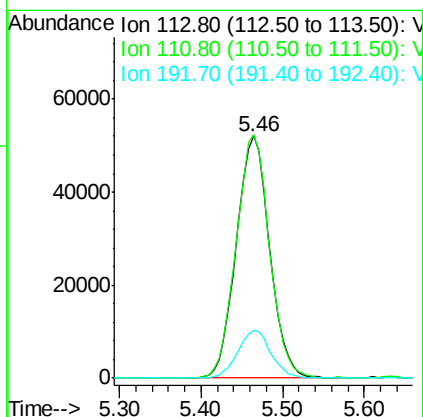
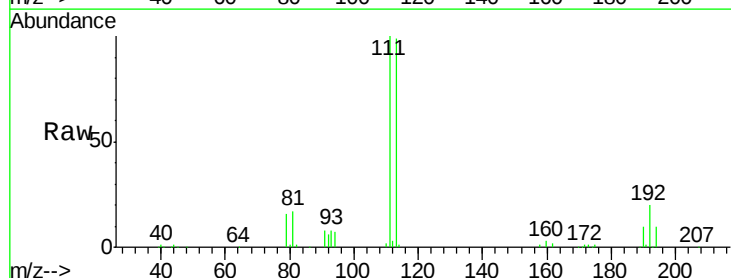
RT: 5.46 min Scan# 718

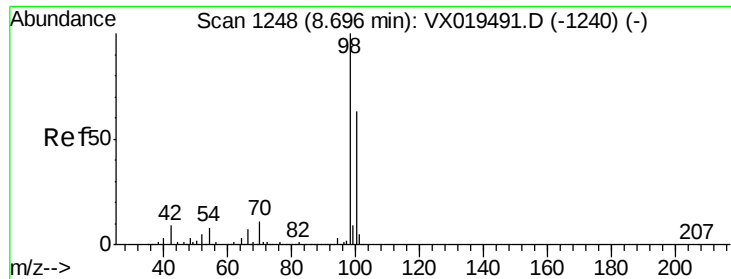
Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 147480 |       |       |
| 111     | 101.0 |        | 81.5  | 122.3 |
| 192     | 19.8  |        | 16.2  | 24.2  |





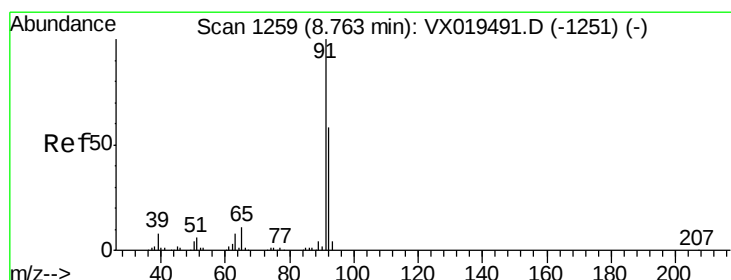
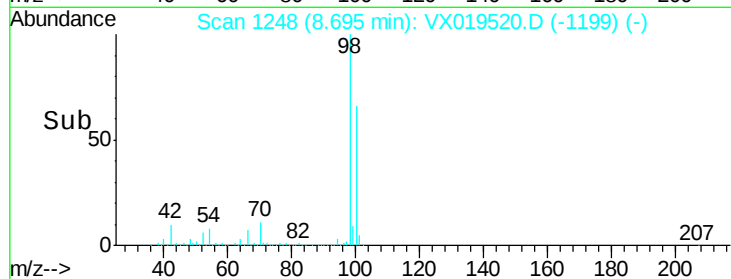
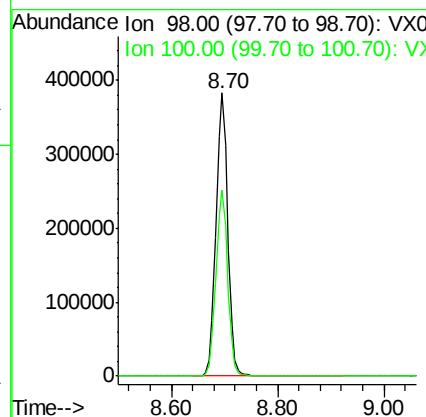
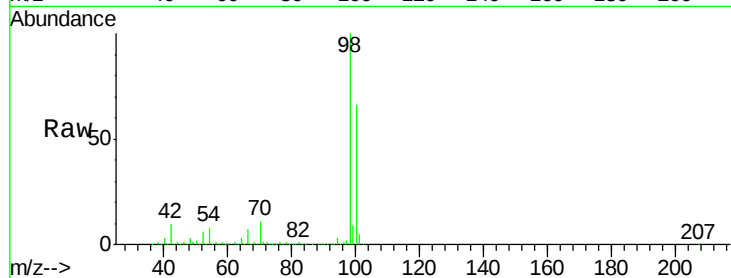
#50  
Toluene-d8  
Concen: 48.089 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

Instrument :  
MSVOA\_X  
ClientSampled :  
1555

Tot Ion: 98 Resp: 584383  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.4 78.6

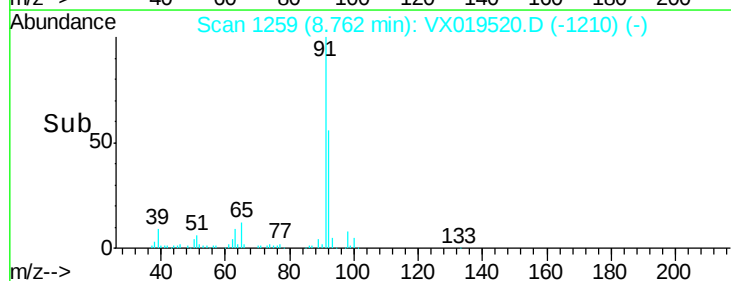
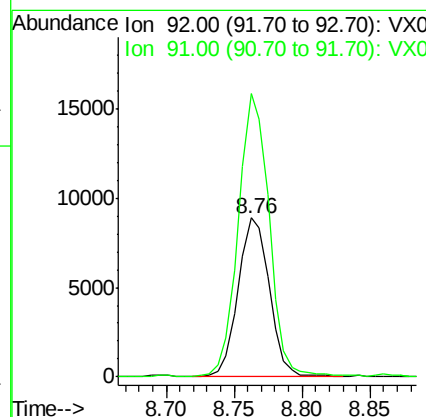
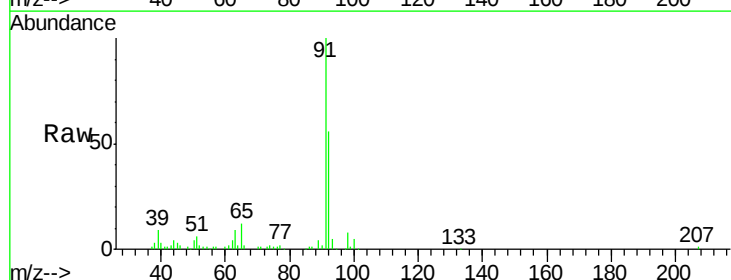
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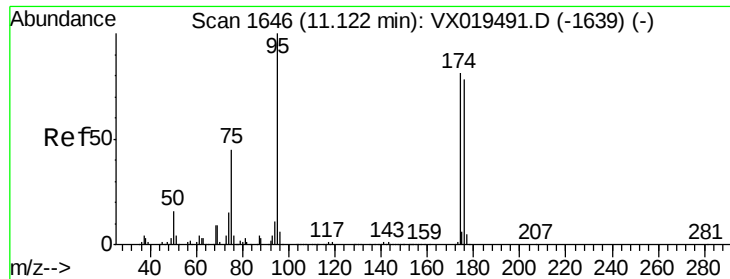
MMDadoda  
11/23/2020 11:05:55 AM



#52  
Toluene  
Concen: 1.626 ug/l  
RT: 8.76 min Scan# 1259  
Delta R.T. -0.00 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

Tgt Ion: 92 Resp: 14274  
Ion Ratio Lower Upper  
92 100  
91 176.2 138.1 207.1





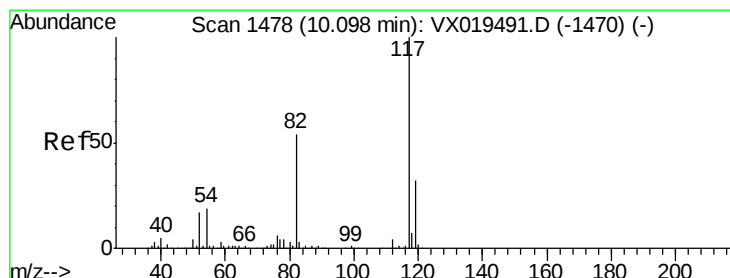
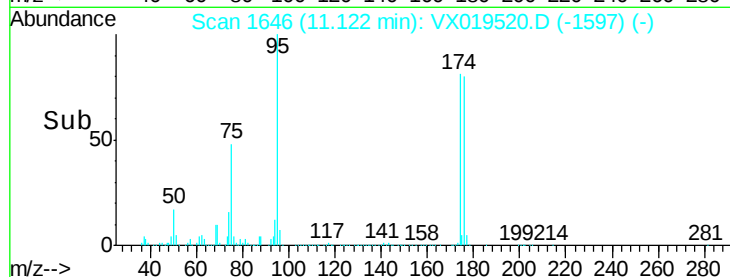
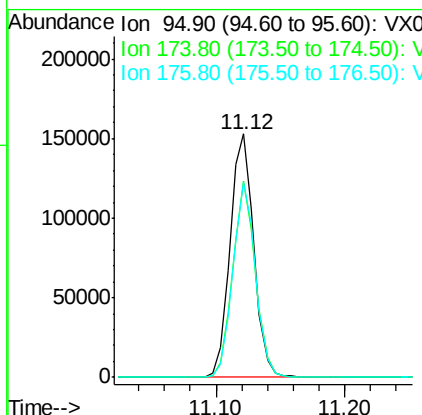
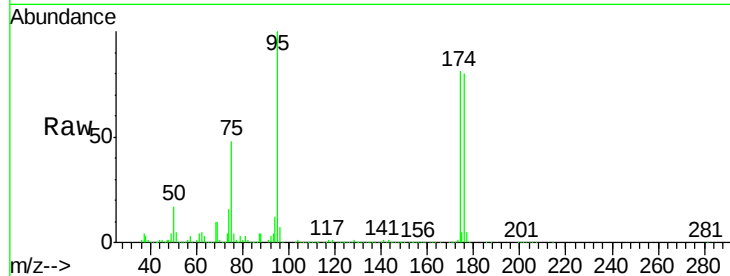
#62  
4-Bromofluorobenzene  
Concen: 44.898 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

Instrument :  
MSVOA\_X  
ClientSampleId :  
1555

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 196300 |       |       |
| 174     | 77.1  | 0.0    | 156.2 |       |
| 176     | 76.7  | 0.0    | 151.4 |       |

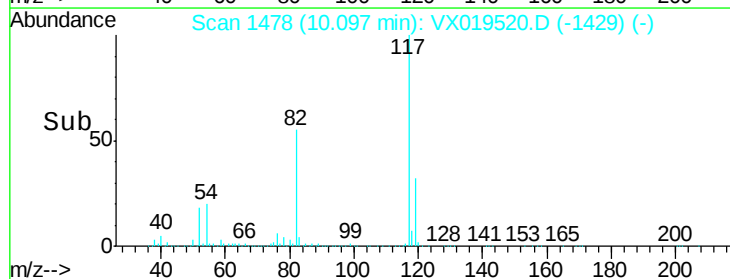
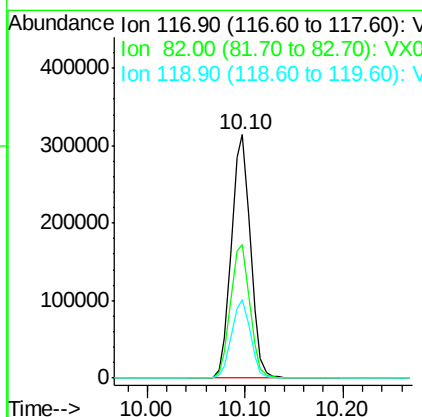
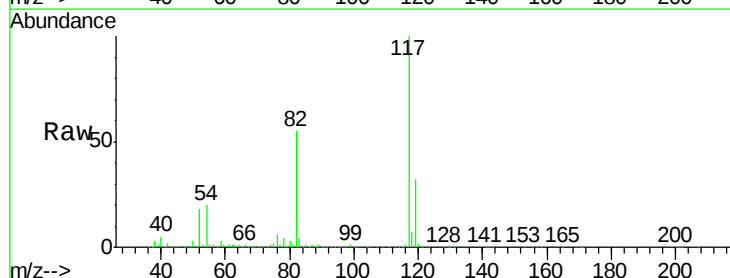
Manual Integrations  
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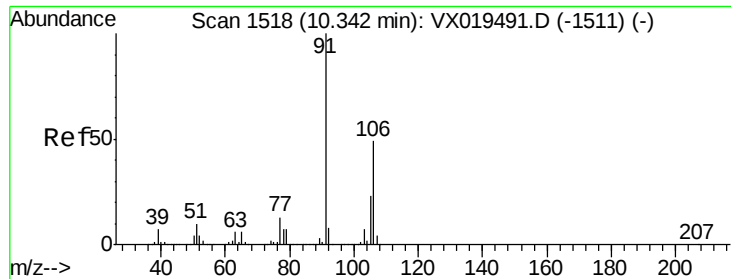
MMDadoda  
11/23/2020 11:05:55 AM



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 426215 |       |       |
| 82      | 54.9  | 43.0   | 64.4  |       |
| 119     | 32.2  | 25.6   | 38.4  |       |





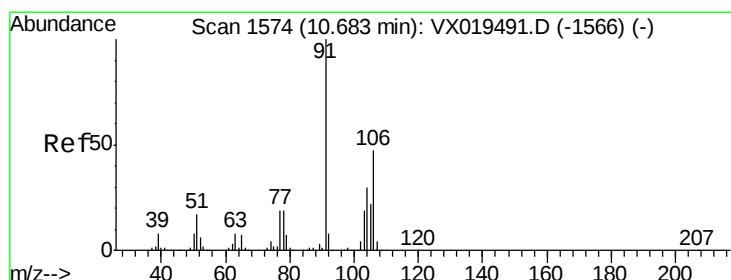
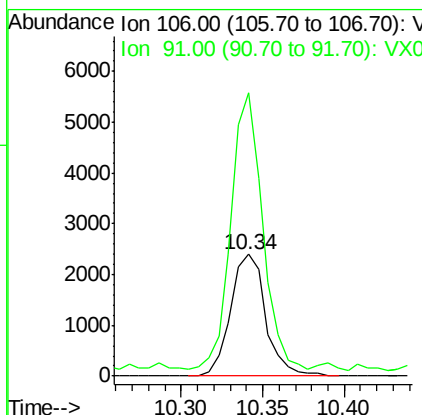
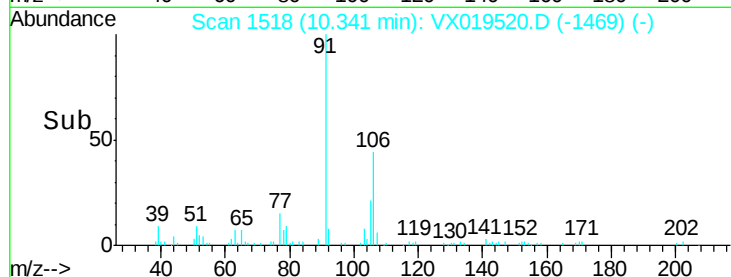
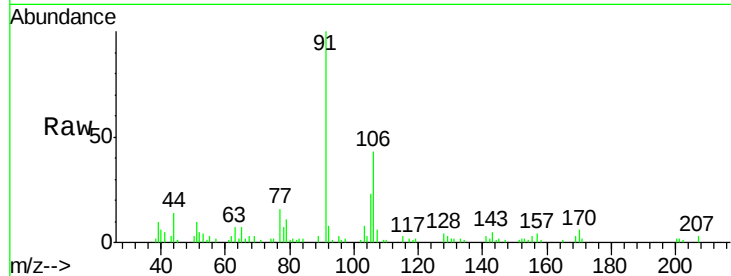
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m/p-Xylenes  
Concen: 0.625 ug/l  
RT: 10.34 min Scan# 1518  
Delta R.T. -0.00 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

Instrument :  
MSVOA\_X  
ClientSampled :  
1555

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 106     | 100   |       |       |       |       |
| 91      | 204.6 | 163.3 | 244.9 |       |       |

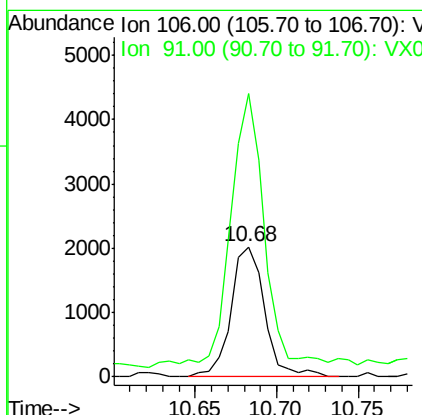
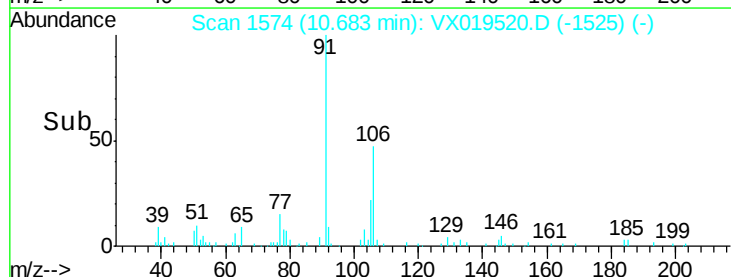
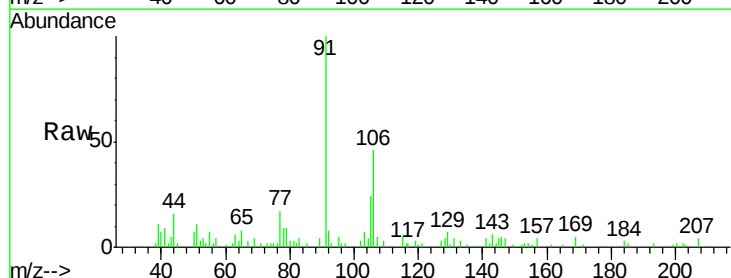
Manual Integrations  
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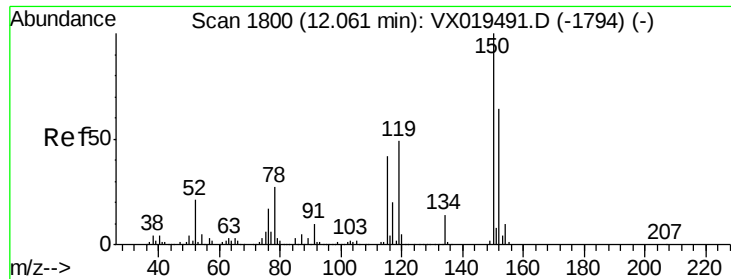
MMDadoda  
11/23/2020 11:05:55 AM



#69  
o-Xylene  
Concen: 0.534 ug/l  
RT: 10.68 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: VX019520.D  
Acq: 21 Nov 2020 02:23

| Tgt Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 106     | 100   |       |       |       |       |
| 91      | 204.8 | 108.0 | 324.0 |       |       |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

Instrument :

MSVOA\_X

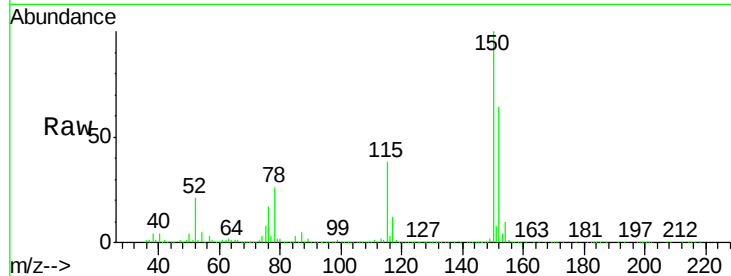
ClientSampleId :

1555

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 183012 |       |       |
| 115     | 60.6  | 41.8   | 125.4 |       |
| 150     | 155.9 | 0.0    | 348.2 |       |

Manual Integrations  
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11/23/2020 11:05:55 AM

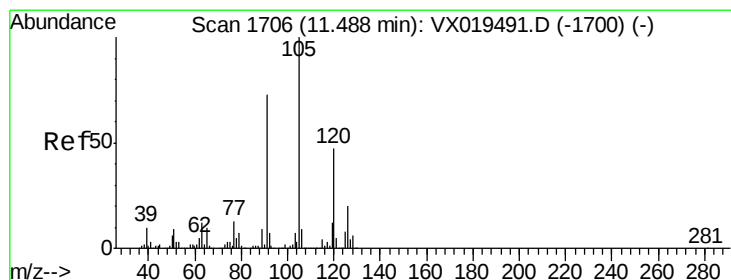
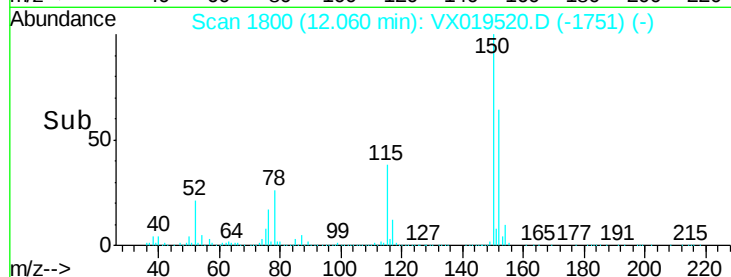
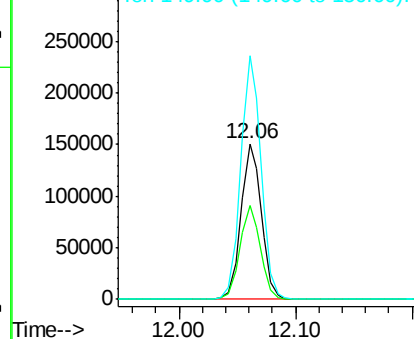


Abundance

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



#80

1,3,5-Trimethylbenzene

Concen: 0.484 ug/l

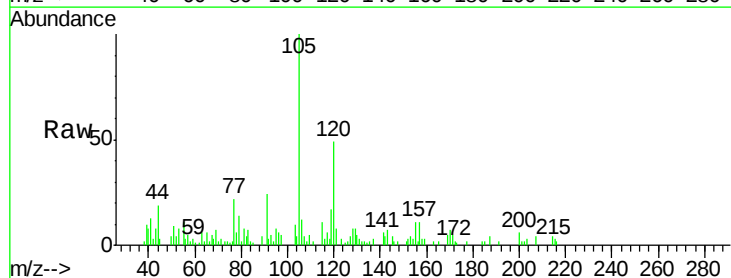
RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019520.D

Acq: 21 Nov 2020 02:23

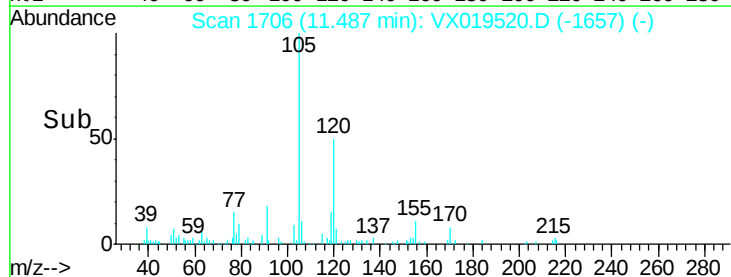
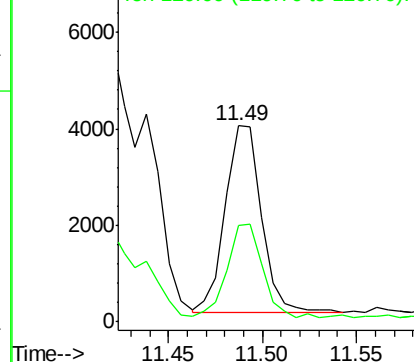
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 105     | 100   | 5142 |       |       |
| 120     | 49.9  | 24.1 | 72.3  |       |

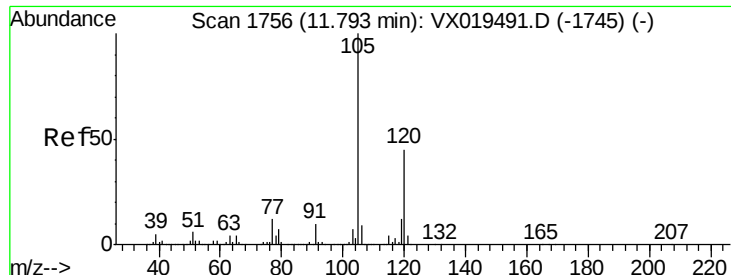


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.989 ug/l  
 RT: 11.79 min Scan# 1756  
 Delta R.T. -0.00 min  
 Lab File: VX019520.D  
 Acq: 21 Nov 2020 02:23

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 1555

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 43.3  | 22.2  | 66.6  |

Manual Integrations  
 APPROVED

MMDadoda  
 11/23/2020 11:05:55 AM

