

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN033121\  
 Data File : VN066445.D  
 Acq On : 31 Mar 2021 17:31  
 Operator : JC/MD  
 Sample : M1835-05  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ASR12

Manual Integrations  
 APPROVED

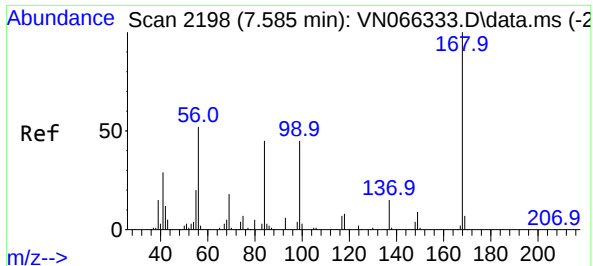
MMDadoda  
 4/1/2021 4:41:26 PM

Quant Time: Apr 01 02:33:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N032521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 26 16:26:01 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|--------|--------|----------|
| -----                       |                |      |            |        |        |          |
| Internal Standards          |                |      |            |        |        |          |
| 1) Pentafluorobenzene       | 7.584          | 168  | 428588     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.515          | 114  | 654449     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.347         | 117  | 573047     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.286         | 152  | 243784     | 50.00  | ug/l   | 0.00     |
|                             |                |      |            |        |        |          |
| System Monitoring Compounds |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 7.947          | 65   | 265208     | 46.55  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 78 - 117 |      | Recovery = | 93.10% |        |          |
| 35) Dibromofluoromethane    | 7.507          | 113  | 203469     | 46.90  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 93.80% |        |          |
| 50) Toluene-d8              | 10.028         | 98   | 806571     | 49.01  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 92 - 112 |      | Recovery = | 98.02% |        |          |
| 62) 4-Bromofluorobenzene    | 12.345         | 95   | 239537     | 41.91  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 83.82% |        |          |
|                             |                |      |            |        |        |          |
| Target Compounds            |                |      |            |        | Qvalue |          |
| 11) Tert butyl alcohol      | 4.701          | 59   | 12276      | 14.13  | ug/l # | 85       |
| 31) Cyclohexane             | 7.571          | 56   | 107391     | 13.62  | ug/l   | 96       |
| 39) Methylcyclohexane       | 9.011          | 83   | 26597      | 3.55   | ug/l   | 97       |
| 40) Benzene                 | 7.963          | 78   | 1004772    | 54.11  | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone    | 9.926          | 43   | 15507      | 2.29   | ug/l   | 99       |
| 52) Toluene                 | 10.092         | 92   | 129693     | 11.38  | ug/l   | 98       |
| 59) 2-Hexanone              | 10.701         | 43   | 15517m     | 3.28   | ug/l   |          |
| 67) Ethyl Benzene           | 11.455         | 91   | 1805417    | 87.06  | ug/l   | 100      |
| 68) m/p-Xylenes             | 11.567         | 106  | 295049     | 37.44  | ug/l   | 99       |
| 69) o-Xylene                | 11.889         | 106  | 17176      | 2.26   | ug/l   | 97       |
| 73) Isopropylbenzene        | 12.192         | 105  | 142839     | 7.88   | ug/l   | 99       |
| 78) n-propylbenzene         | 12.535         | 91   | 243971     | 12.37  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene  | 12.678         | 105  | 122414     | 8.25   | ug/l   | 99       |
| 83) tert-Butylbenzene       | 12.940         | 119  | 3252       | 0.25   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene  | 12.983         | 105  | 591901     | 41.07  | ug/l   | 100      |
| 85) sec-Butylbenzene        | 13.117         | 105  | 20123      | 1.22   | ug/l   | 82       |
| 86) p-Isopropyltoluene      | 13.233         | 119  | 8723       | 0.59   | ug/l # | 70       |
| 89) n-Butylbenzene          | 13.563         | 91   | 16688      | 1.36   | ug/l # | 68       |
| 95) Naphthalene             | 15.073         | 128  | 155043     | 12.15  | ug/l   | 99       |
| -----                       |                |      |            |        |        |          |

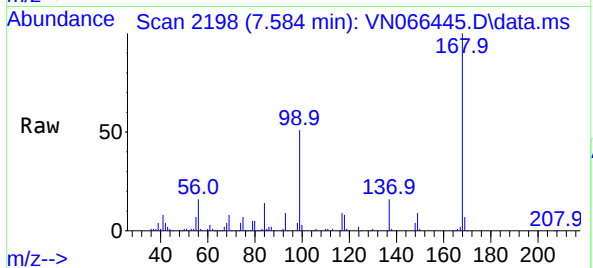
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.584 min Scan# 2198  
Delta R.T. -0.001 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

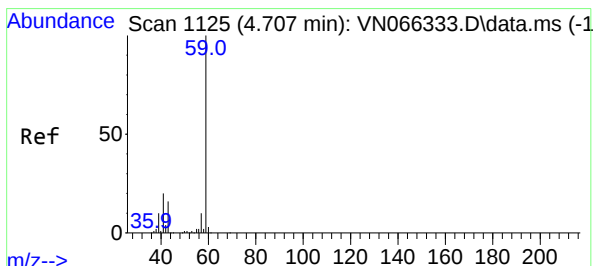
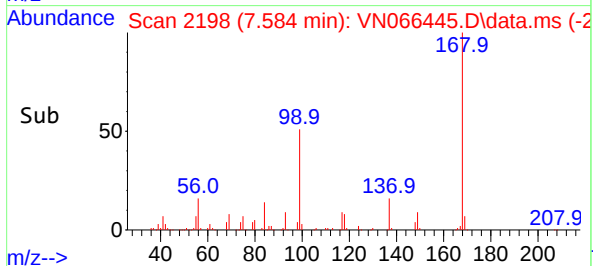
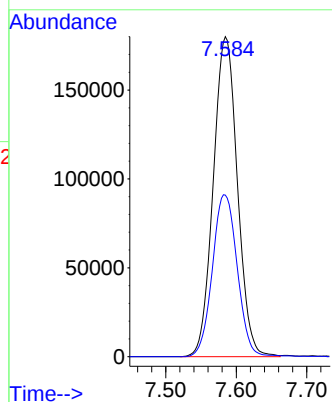
Instrument :  
MSVOA\_N  
ClientSampled :  
ASR12



Tgt Ion:168 Resp: 428588  
Ion Ratio Lower Upper  
168 100  
99 50.5 41.1 61.7

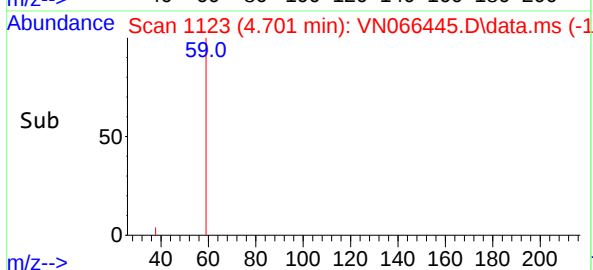
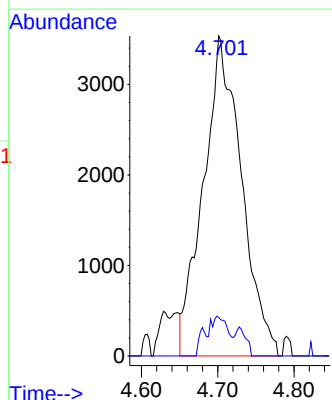
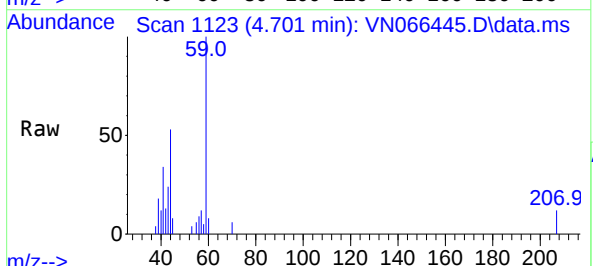
Manual Integrations  
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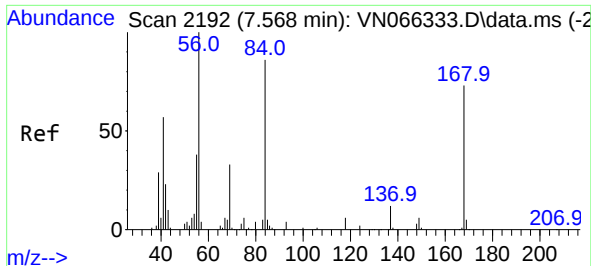
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#11  
Tert butyl alcohol  
Concen: 14.13 ug/l  
RT: 4.701 min Scan# 1123  
Delta R.T. -0.005 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

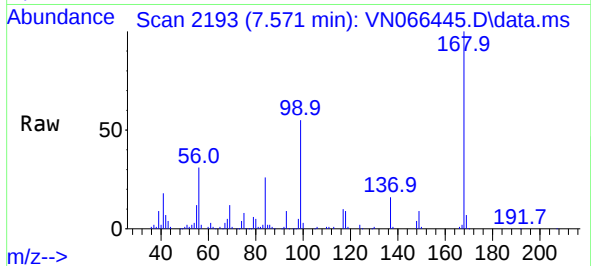
Tgt Ion: 59 Resp: 12276  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.1 6.1#





#31  
Cyclohexane  
Concen: 13.62 ug/l  
RT: 7.571 min Scan# 2193  
Delta R.T. 0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

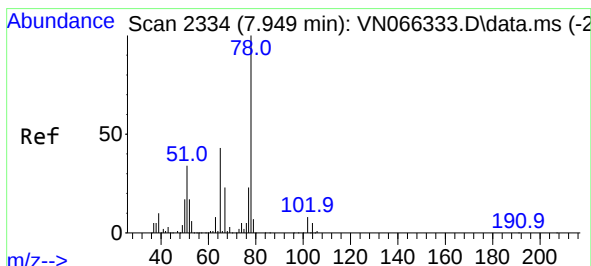
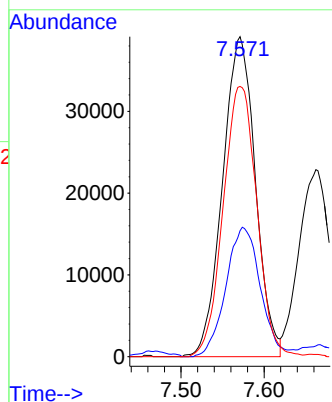
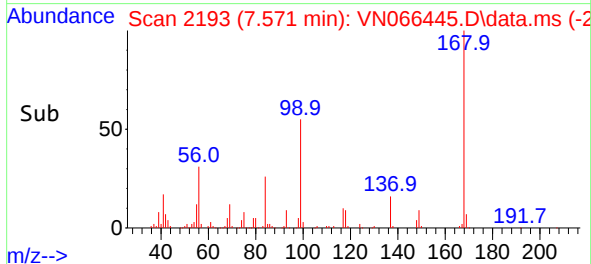
Instrument :  
MSVOA\_N  
ClientSampled :  
ASR12



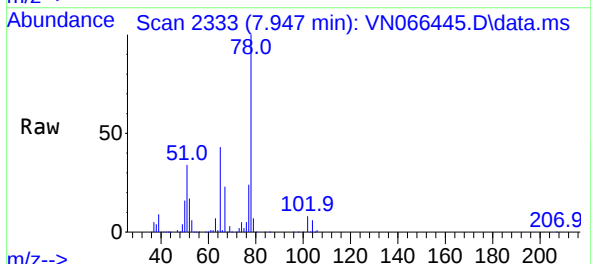
Tgt Ion: 56 Resp: 107391  
Ion Ratio Lower Upper  
56 100  
69 38.9 26.6 40.0  
84 84.5 68.7 103.1

Manual Integrations  
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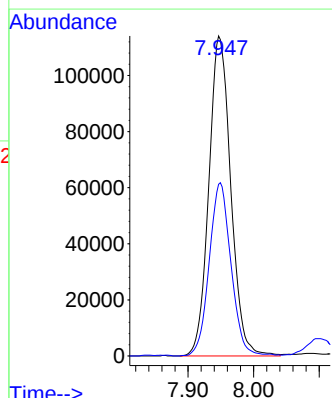
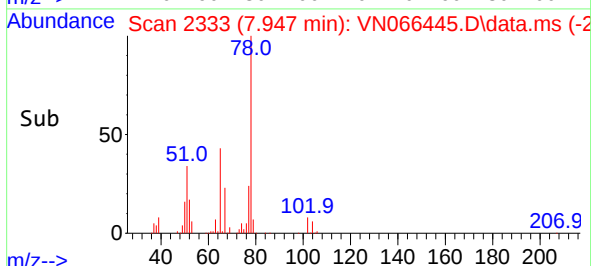
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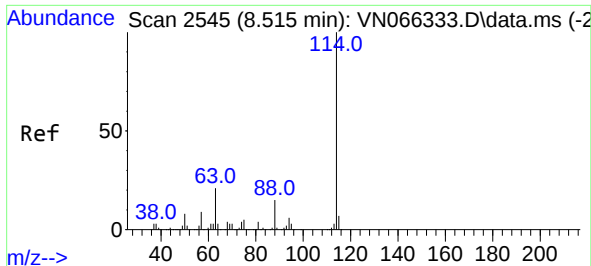


#33  
1,2-Dichloroethane-d4  
Concen: 46.55 ug/l  
RT: 7.947 min Scan# 2333  
Delta R.T. -0.002 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

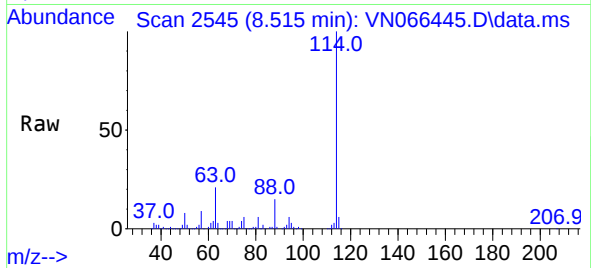


Tgt Ion: 65 Resp: 265208  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 105.2

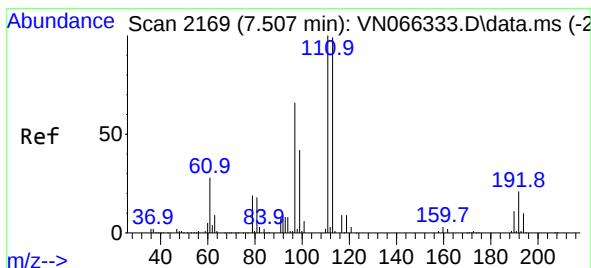
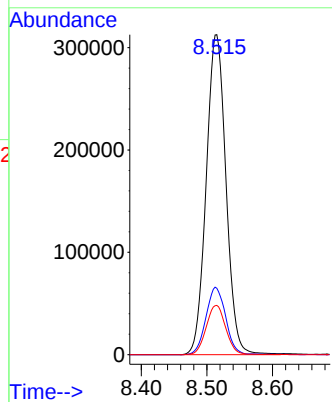
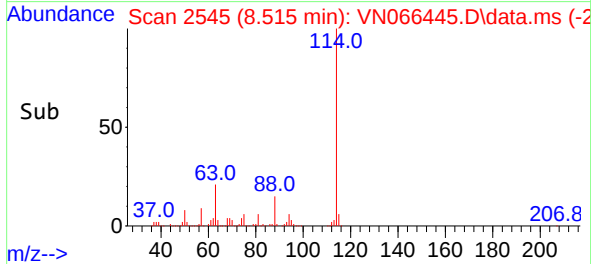




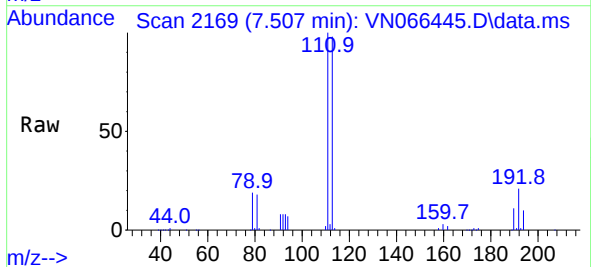
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.515 min Scan# 2545  
Delta R.T. 0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31



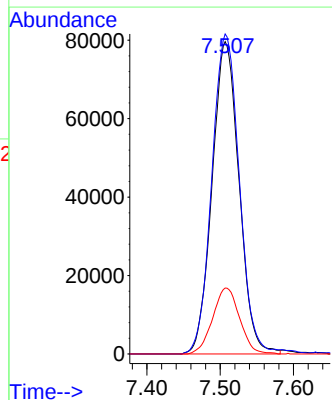
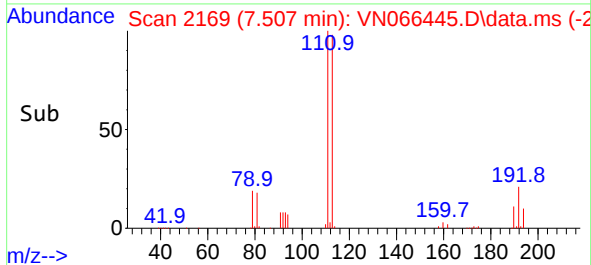
Tgt Ion:114 Resp: 654449  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 42.0  
88 15.4 0.0 31.0



#35  
Dibromofluoromethane  
Concen: 46.90 ug/l  
RT: 7.507 min Scan# 2169  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31



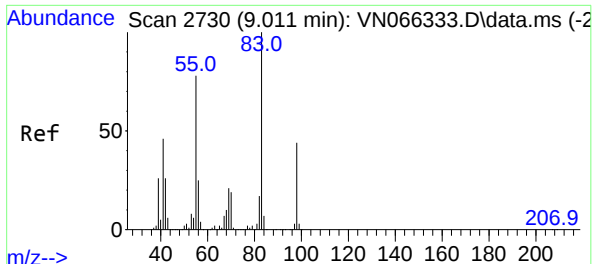
Tgt Ion:113 Resp: 203469  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.8 122.8  
192 21.2 17.1 25.7



Instrument :  
MSVOA\_N  
ClientSampled :  
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#39

Methylcyclohexane

Concen: 3.55 ug/l

RT: 9.011 min Scan# 2730

Delta R.T. -0.000 min

Lab File: VN066445.D

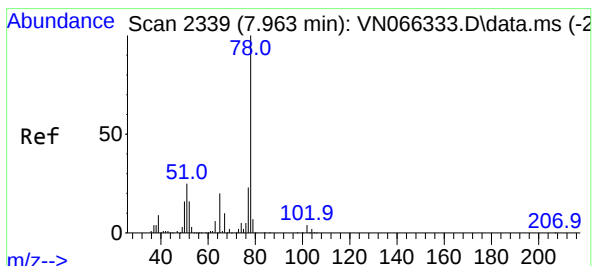
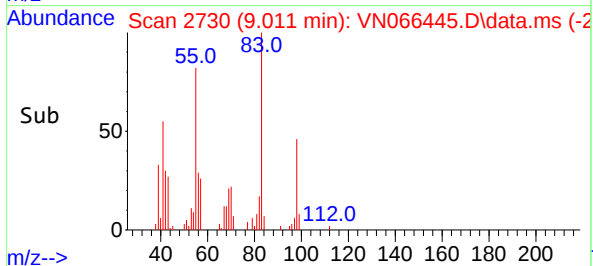
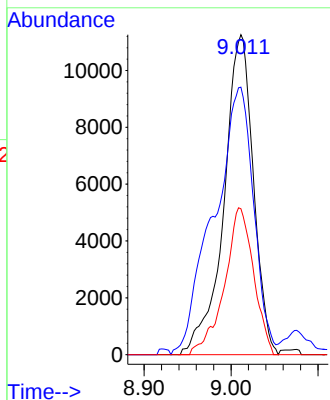
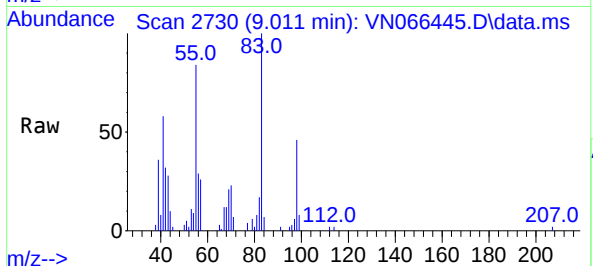
Acq: 31 Mar 2021 17:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 26597 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 81.3  | 62.3  | 93.5  |
| 98       | 45.6  | 35.6  | 53.4  |

Instrument :  
MSVOA\_N  
ClientSampled :  
ASR12

Manual Integrations  
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#40

Benzene

Concen: 54.11 ug/l

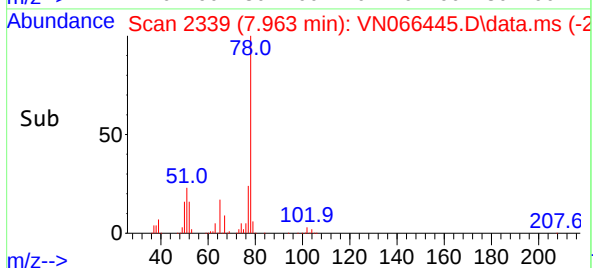
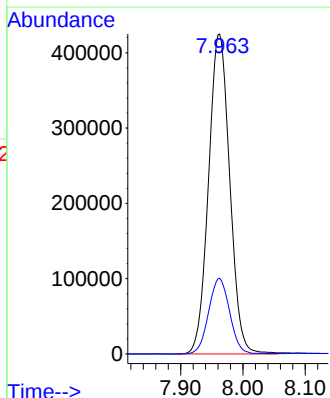
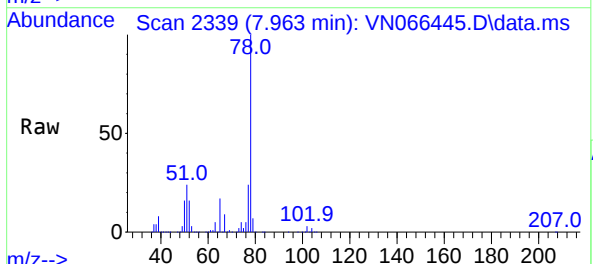
RT: 7.963 min Scan# 2339

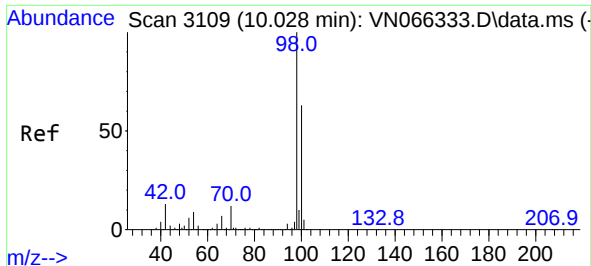
Delta R.T. -0.000 min

Lab File: VN066445.D

Acq: 31 Mar 2021 17:31

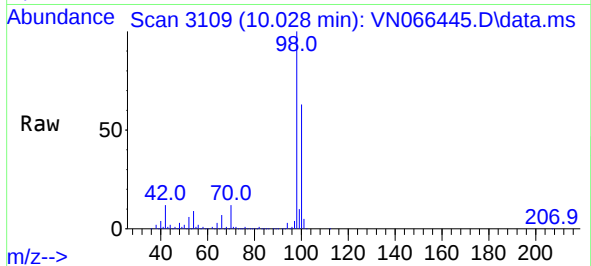
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 78    | Resp: | 1004772 |
| Ion      | Ratio | Lower | Upper   |
| 78       | 100   |       |         |
| 77       | 23.6  | 18.7  | 28.1    |





#50  
Toluene-d8  
Concen: 49.01 ug/l  
RT: 10.028 min Scan# 3109  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

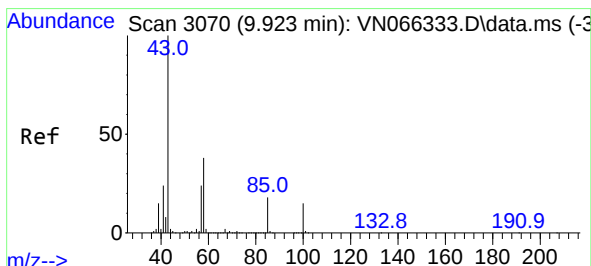
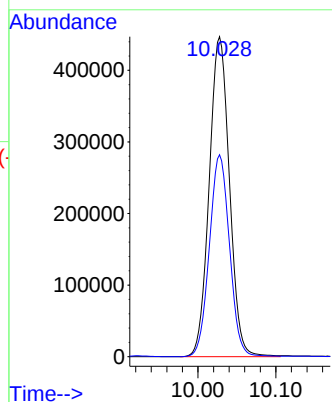
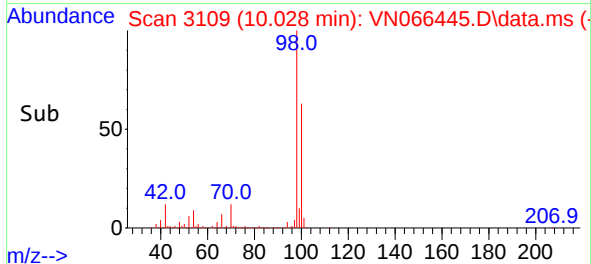
Instrument :  
MSVOA\_N  
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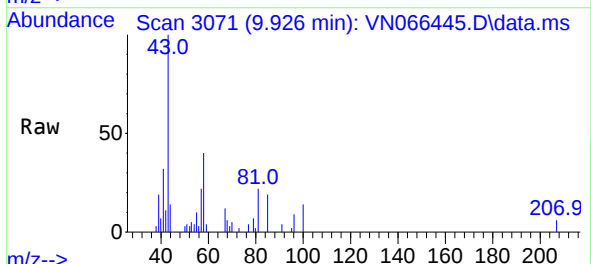
Tgt Ion: 98 Resp: 806571  
Ion Ratio Lower Upper  
98 100  
100 63.0 50.5 75.7

Manual Integrations  
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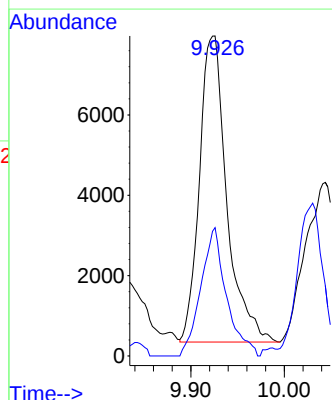
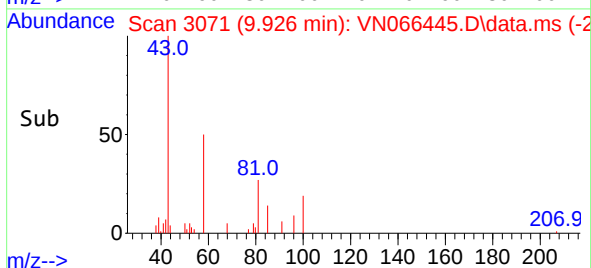
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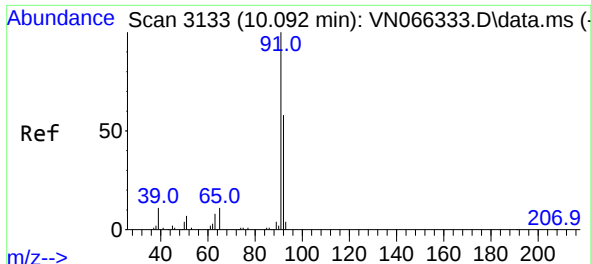


#51  
4-Methyl-2-Pentanone  
Concen: 2.29 ug/l  
RT: 9.926 min Scan# 3071  
Delta R.T. 0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31



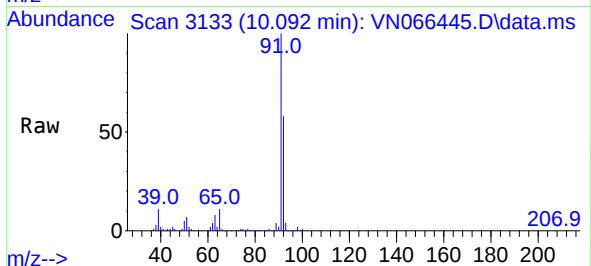
Tgt Ion: 43 Resp: 15507  
Ion Ratio Lower Upper  
43 100  
58 39.1 30.8 46.2





#52  
Toluene  
Concen: 11.38 ug/l  
RT: 10.092 min Scan# 3133  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

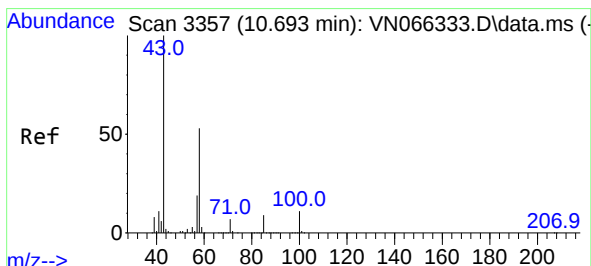
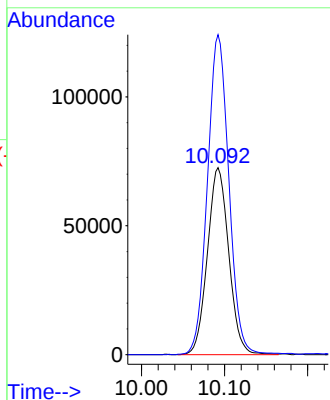
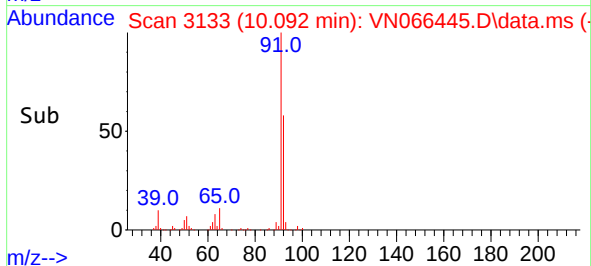
Instrument :  
MSVOA\_N  
ClientSampleId :  
ASR12



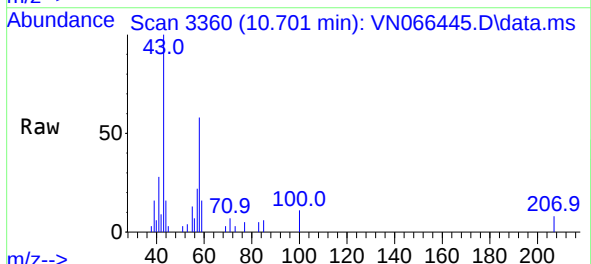
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Ion Ratio Lower Upper  
92 100  
91 171.3 138.8 208.2

Manual Integrations  
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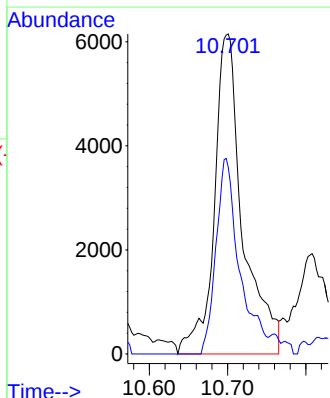
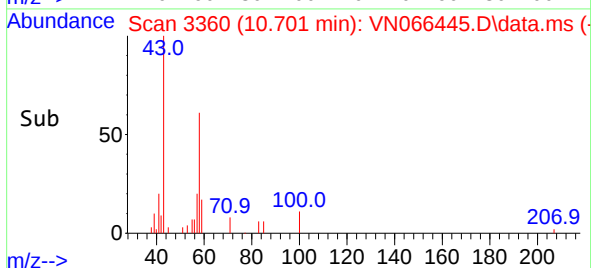
MMDadoda  
4/1/2021 4:41:26 PM

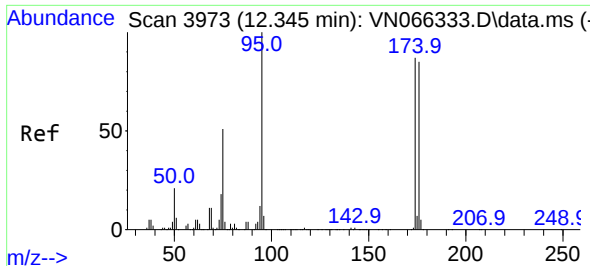


#59  
2-Hexanone  
Concen: 3.28 ug/l m  
RT: 10.701 min Scan# 3360  
Delta R.T. 0.008 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31



Tgt Ion: 43 Resp: 15517  
Ion Ratio Lower Upper  
43 100  
58 50.4 26.6 79.8





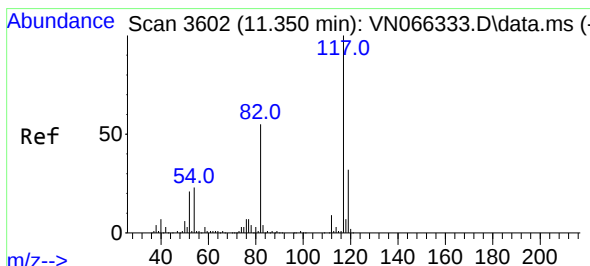
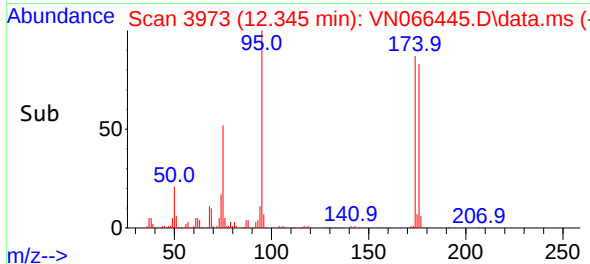
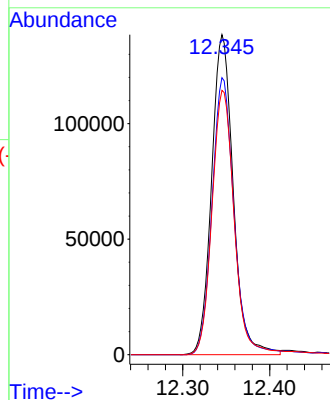
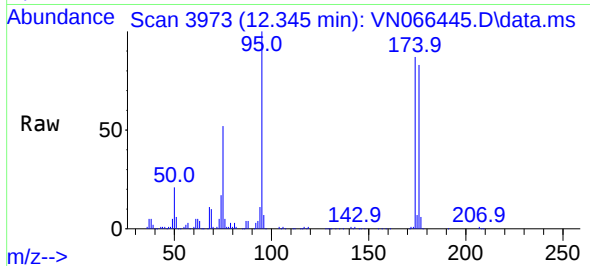
#62  
4-Bromofluorobenzene  
Concen: 41.91 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

Tgt Ion: 95 Resp: 239537  
Ion Ratio Lower Upper  
95 100  
174 87.5 0.0 172.2  
176 84.5 0.0 167.8

Instrument :  
MSVOA\_N  
ClientSampled :  
ASR12

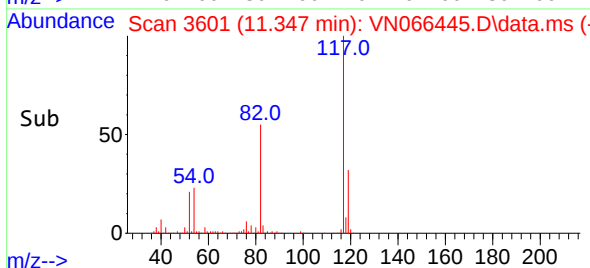
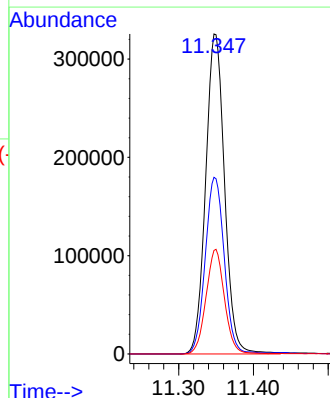
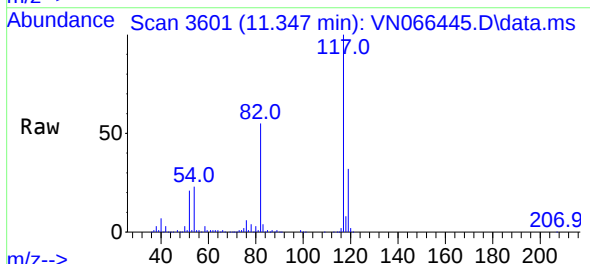
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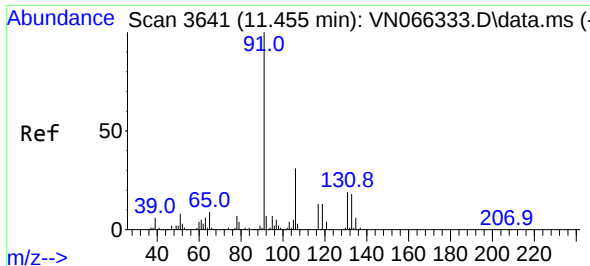
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#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.347 min Scan# 3601  
Delta R.T. -0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

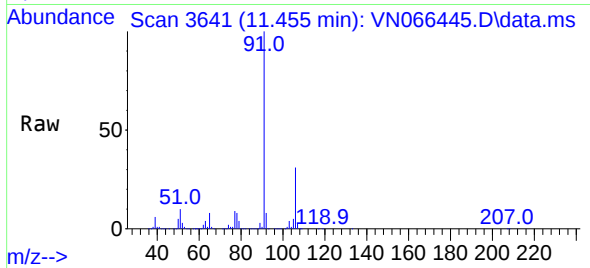
Tgt Ion: 117 Resp: 573047  
Ion Ratio Lower Upper  
117 100  
82 55.2 44.2 66.4  
119 32.3 25.8 38.6





#67  
Ethyl Benzene  
Concen: 87.06 ug/l  
RT: 11.455 min Scan# 3641  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

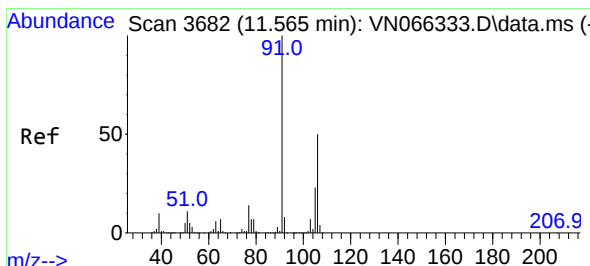
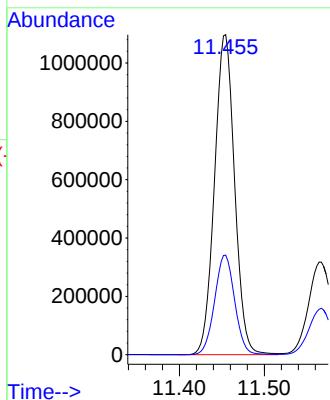
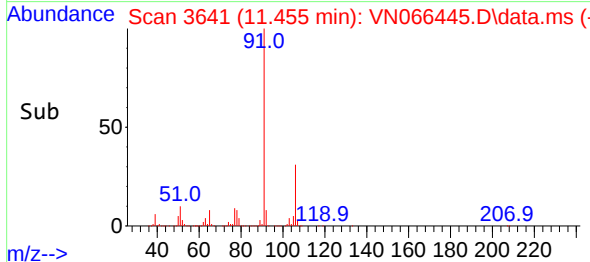
Instrument :  
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ClientSampled :  
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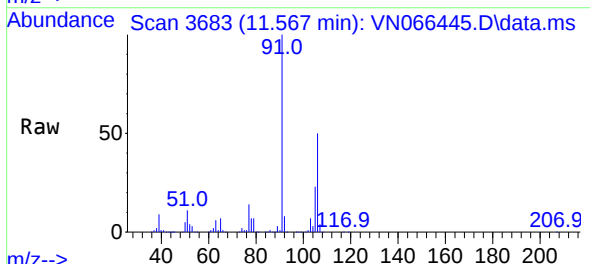
Tgt Ion: 91 Resp: 1805417  
Ion Ratio Lower Upper  
91 100  
106 31.1 24.7 37.1

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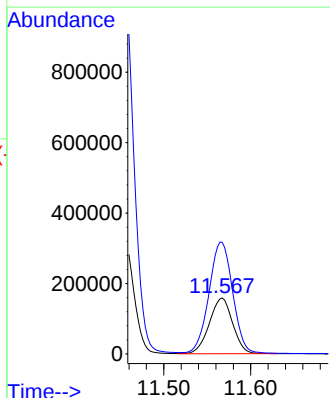
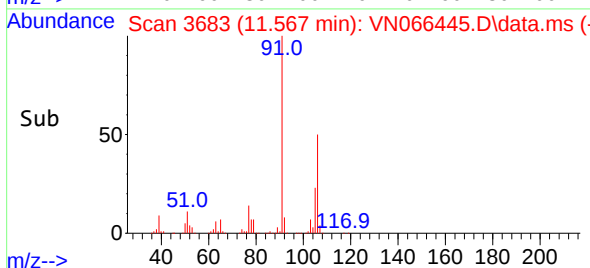
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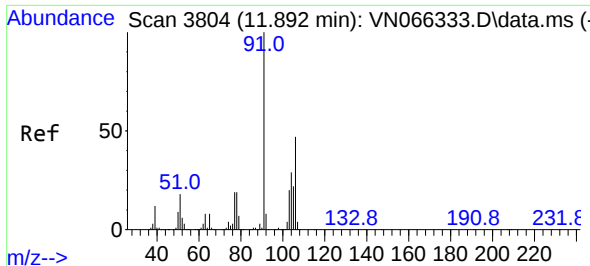


#68  
m/p-Xylenes  
Concen: 37.44 ug/l  
RT: 11.567 min Scan# 3683  
Delta R.T. 0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31



Tgt Ion:106 Resp: 295049  
Ion Ratio Lower Upper  
106 100  
91 204.7 162.7 244.1





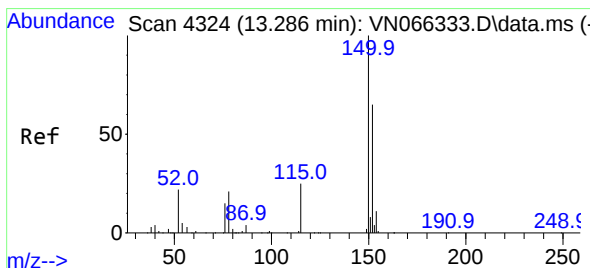
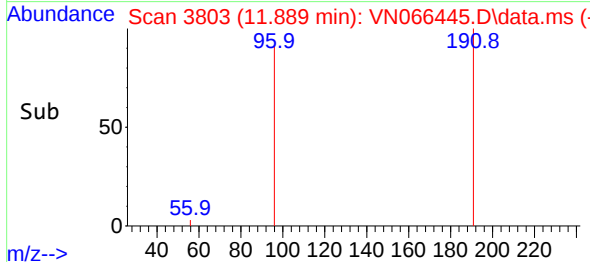
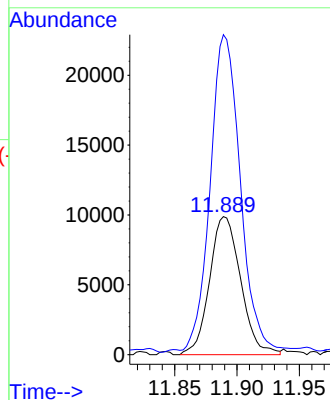
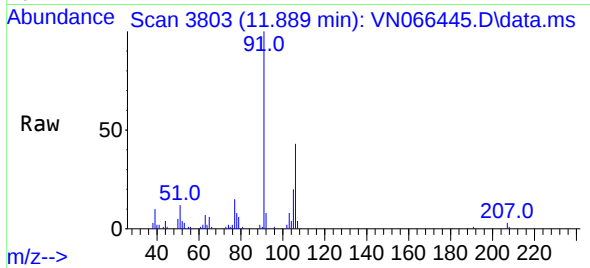
#69  
o-Xylene  
Concen: 2.26 ug/l  
RT: 11.889 min Scan# 3803  
Delta R.T. -0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

Tgt Ion:106 Resp: 17176  
Ion Ratio Lower Upper  
106 100  
91 218.9 107.1 321.4

Instrument :  
MSVOA\_N  
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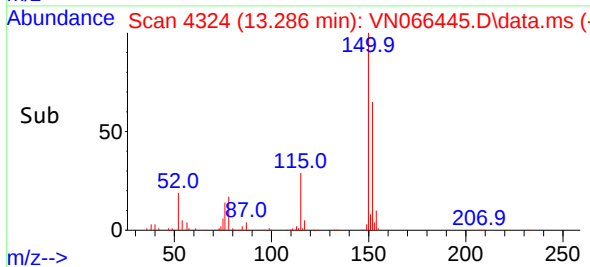
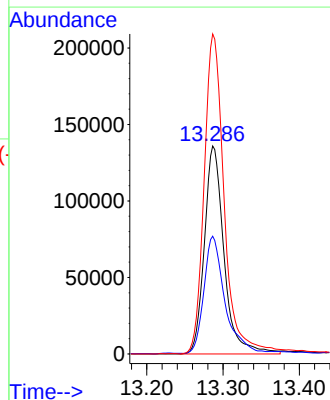
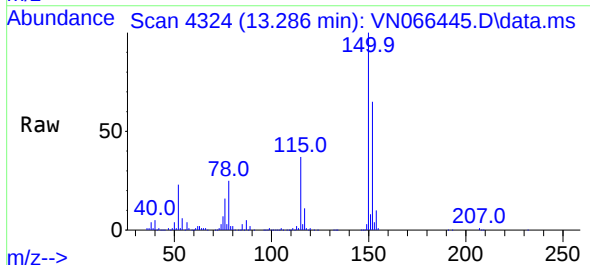
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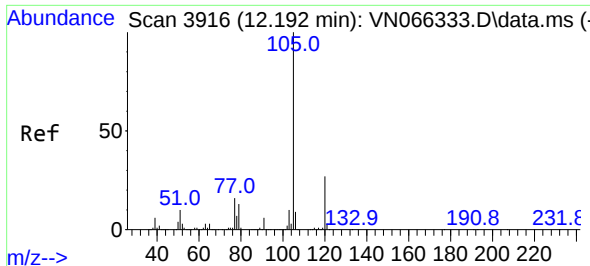
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.286 min Scan# 4324  
Delta R.T. 0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

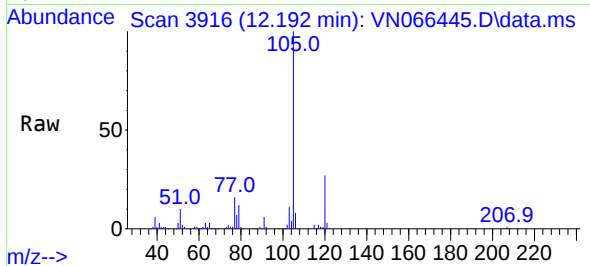
Tgt Ion:152 Resp: 243784  
Ion Ratio Lower Upper  
152 100  
115 59.9 27.8 83.4  
150 158.2 0.0 348.4





#73  
Isopropylbenzene  
Concen: 7.88 ug/l  
RT: 12.192 min Scan# 3916  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

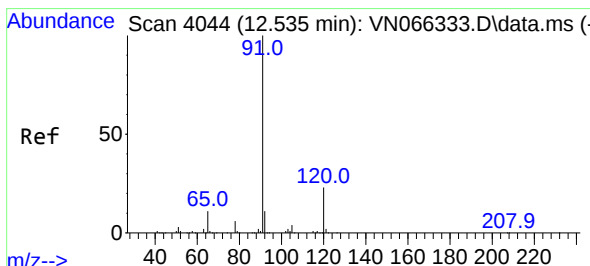
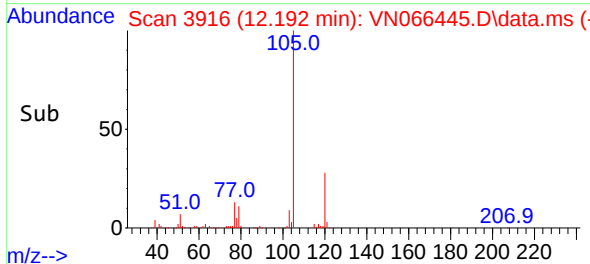
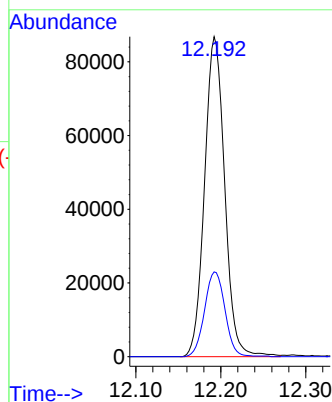
Instrument :  
MSVOA\_N  
ClientSampleId :  
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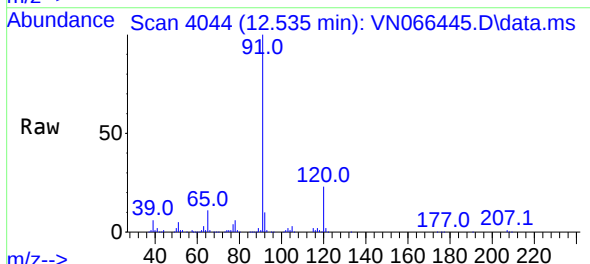
Tgt Ion:105 Resp: 142839  
Ion Ratio Lower Upper  
105 100  
120 26.8 13.3 39.8

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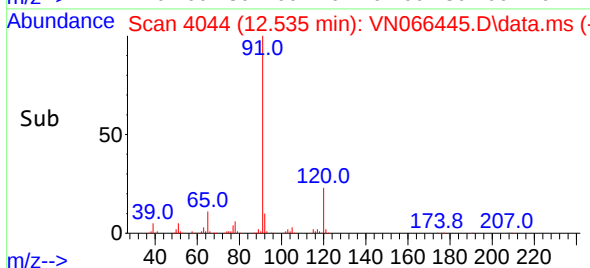
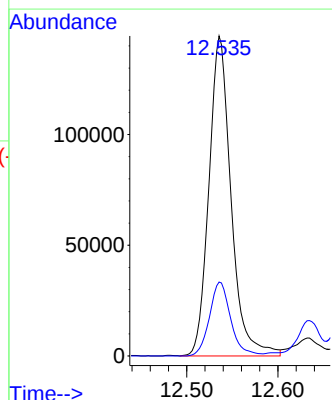
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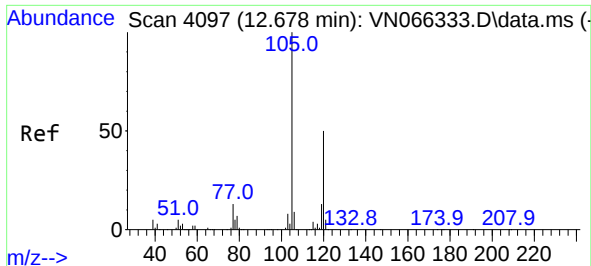


#78  
n-propylbenzene  
Concen: 12.37 ug/l  
RT: 12.535 min Scan# 4044  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31



Tgt Ion: 91 Resp: 243971  
Ion Ratio Lower Upper  
91 100  
120 22.2 11.7 35.1





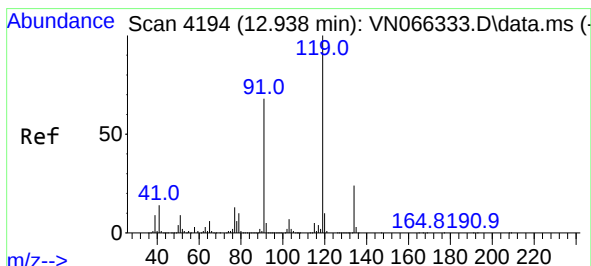
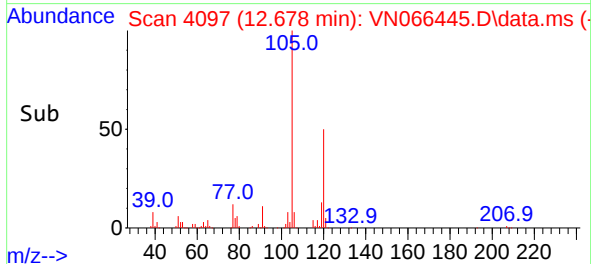
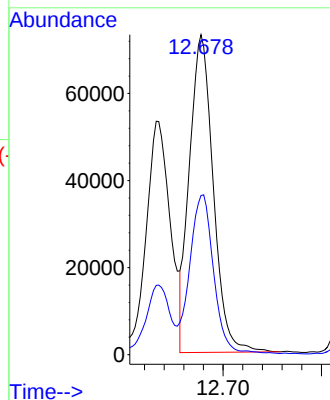
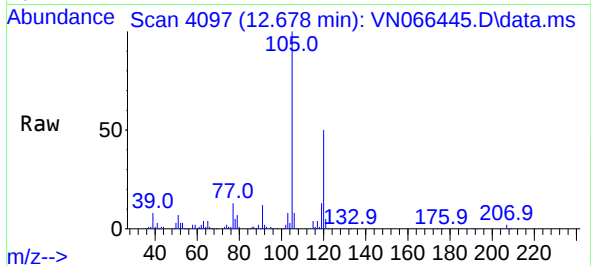
#80  
1,3,5-Trimethylbenzene  
Concen: 8.25 ug/l  
RT: 12.678 min Scan# 4097  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

Tgt Ion:105 Resp: 122414  
Ion Ratio Lower Upper  
105 100  
120 49.6 24.5 73.5

Instrument :  
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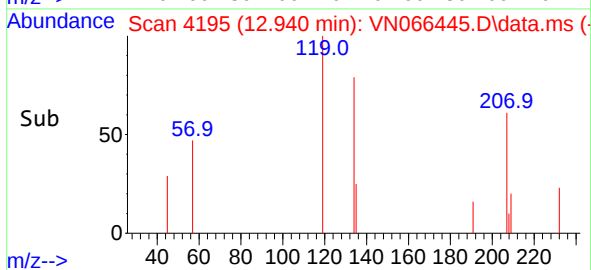
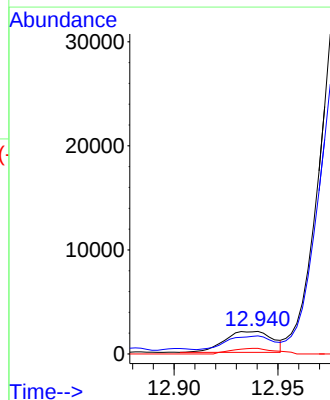
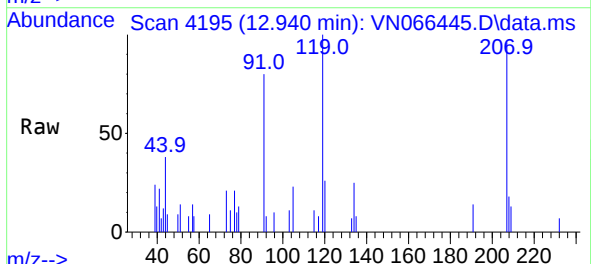
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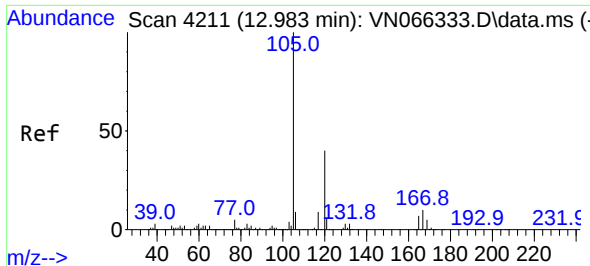
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#83  
tert-Butylbenzene  
Concen: 0.25 ug/l  
RT: 12.940 min Scan# 4195  
Delta R.T. 0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

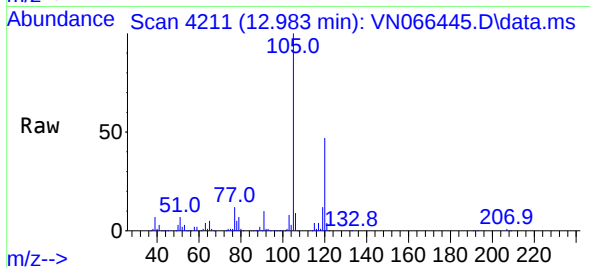
Tgt Ion:119 Resp: 3252  
Ion Ratio Lower Upper  
119 100  
91 60.5 33.3 99.8  
134 24.1 12.9 38.6





#84  
1,2,4-Trimethylbenzene  
Concen: 41.07 ug/l  
RT: 12.983 min Scan# 4211  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

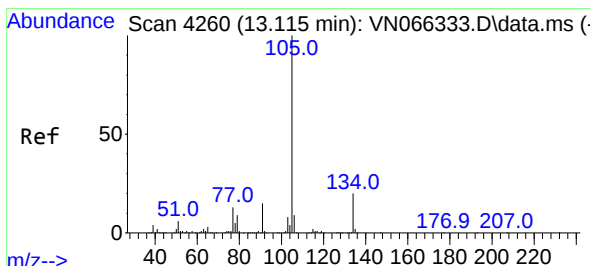
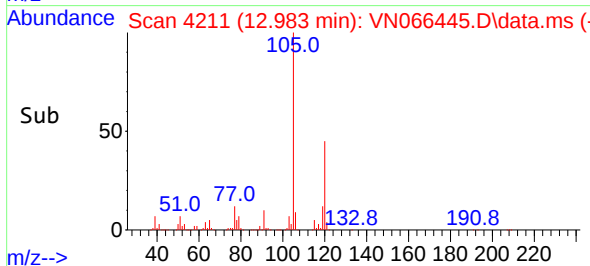
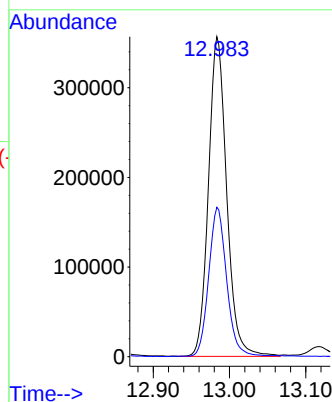
Instrument :  
MSVOA\_N  
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Tgt Ion:105 Resp: 591901  
Ion Ratio Lower Upper  
105 100  
120 46.0 23.1 69.2

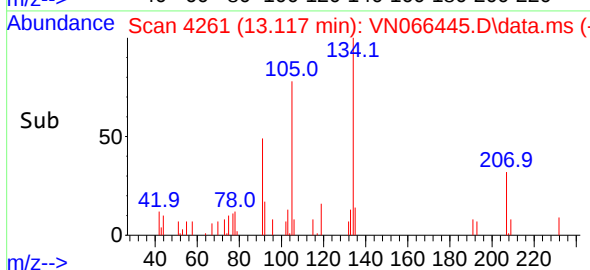
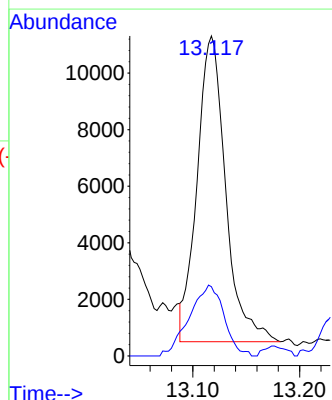
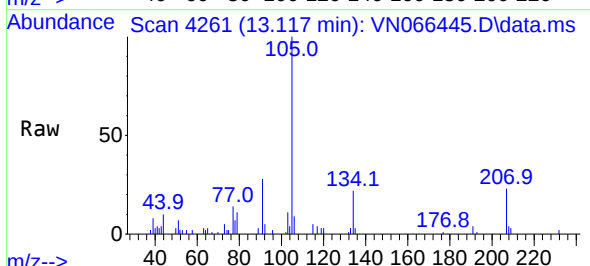
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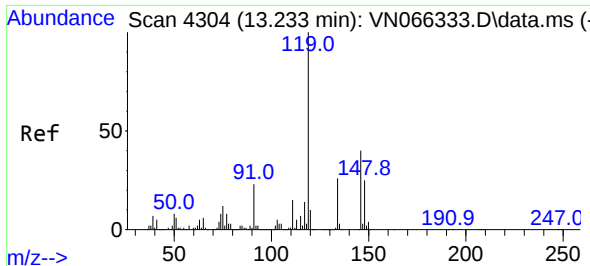
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#85  
sec-Butylbenzene  
Concen: 1.22 ug/l  
RT: 13.117 min Scan# 4261  
Delta R.T. 0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

Tgt Ion:105 Resp: 20123  
Ion Ratio Lower Upper  
105 100  
134 28.1 9.9 29.7





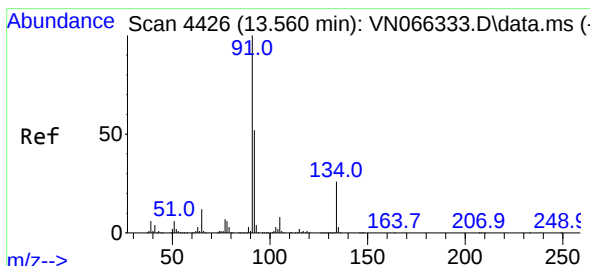
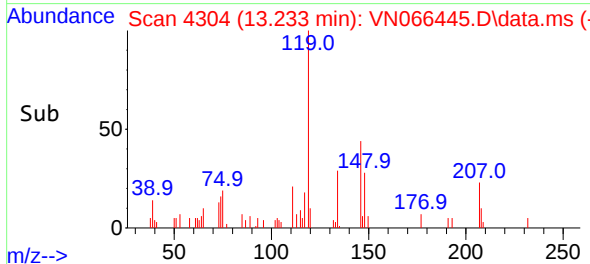
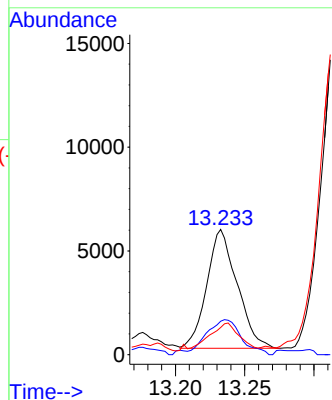
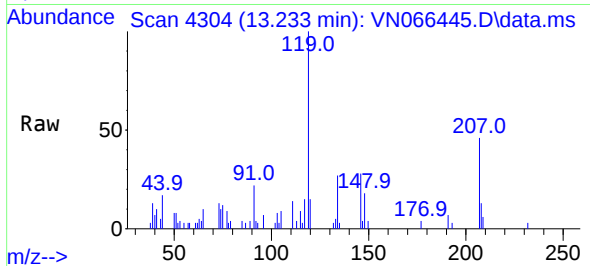
#86  
p-Isopropyltoluene  
Concen: 0.59 ug/l  
RT: 13.233 min Scan# 4304  
Delta R.T. -0.000 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

Tgt Ion: 119 Resp: 8723  
Ion Ratio Lower Upper  
119 100  
134 33.6 12.9 38.7  
91 0.0 11.5 34.5#

Instrument :  
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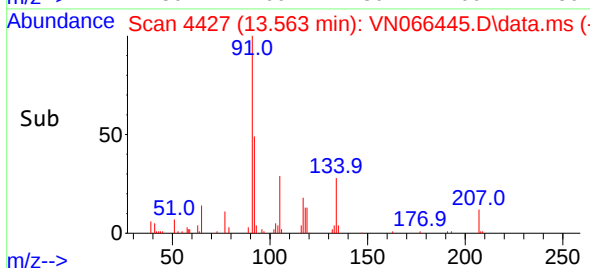
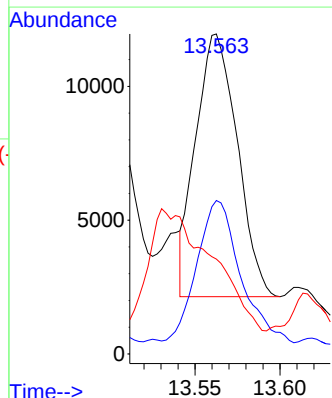
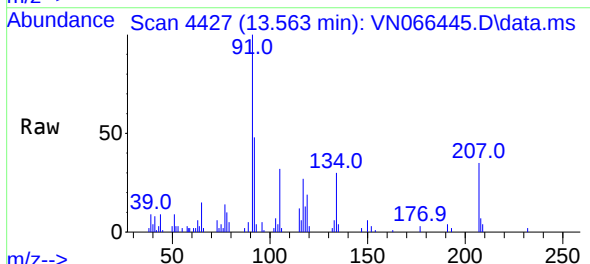
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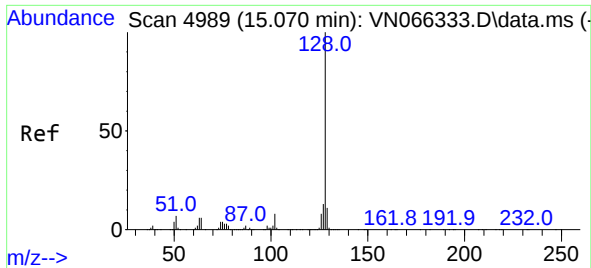
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#89  
n-Butylbenzene  
Concen: 1.36 ug/l  
RT: 13.563 min Scan# 4427  
Delta R.T. 0.003 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

Tgt Ion: 91 Resp: 16688  
Ion Ratio Lower Upper  
91 100  
92 68.5 26.1 78.3  
134 0.0 12.8 38.4#





#95  
Naphthalene  
Concen: 12.15 ug/l  
RT: 15.073 min Scan# 4990  
Delta R.T. 0.002 min  
Lab File: VN066445.D  
Acq: 31 Mar 2021 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.3  | 10.5  | 15.7  |
| 129     | 11.1  | 8.5   | 12.7  |

Instrument :  
MSVOA\_N  
ClientSampleId :  
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