

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121020\  
 Data File : VX019834.D  
 Acq On : 10 Dec 2020 18:36  
 Operator : JC/MD  
 Sample : L4996-22  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20201208

Manual Integrations  
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 12/11/2020 5:36:23 PM

Quant Time: Dec 11 02:36:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 309412   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 516704   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 466521   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 195258   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |        |
|---------------------------|--------|-------|----------|----------|------|--------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65    | 197545   | 48.58    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 97.16% |
| 35) Dibromofluoromethane  | 5.46   | 113   | 160400   | 48.03    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 96.06% |
| 50) Toluene-d8            | 8.70   | 98    | 620919   | 48.70    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 97.40% |
| 62) 4-Bromofluorobenzene  | 11.12  | 95    | 211792   | 43.65    | ug/l | 0.00   |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 87.30% |

## Target Compounds

|                               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 9) 1,1,2-Trichlorotrifluoroet | 2.37  | 101  | 23386    | 8.340  | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 2.36  | 96   | 1821     | 0.642  | ug/l   | 82     |
| 24) 1,1-Dichloroethane        | 3.67  | 63   | 2289     | 0.392  | ug/l # | 92     |
| 27) cis-1,2-Dichloroethene    | 4.56  | 96   | 13389    | 3.462  | ug/l   | 94     |
| 42) 1,2-Dichloroethane        | 6.16  | 62   | 1392     | 0.286  | ug/l   | 93     |
| 44) Trichloroethene           | 7.18  | 130  | 53805    | 14.378 | ug/l   | 99     |
| 45) 1,2-Dichloropropane       | 7.49  | 63   | 11877    | 3.332  | ug/l   | 97     |
| 64) Tetrachloroethene         | 9.32  | 164  | 54601    | 17.452 | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane    | 11.27 | 75   | 2001m    | 0.457  | ug/l   |        |

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

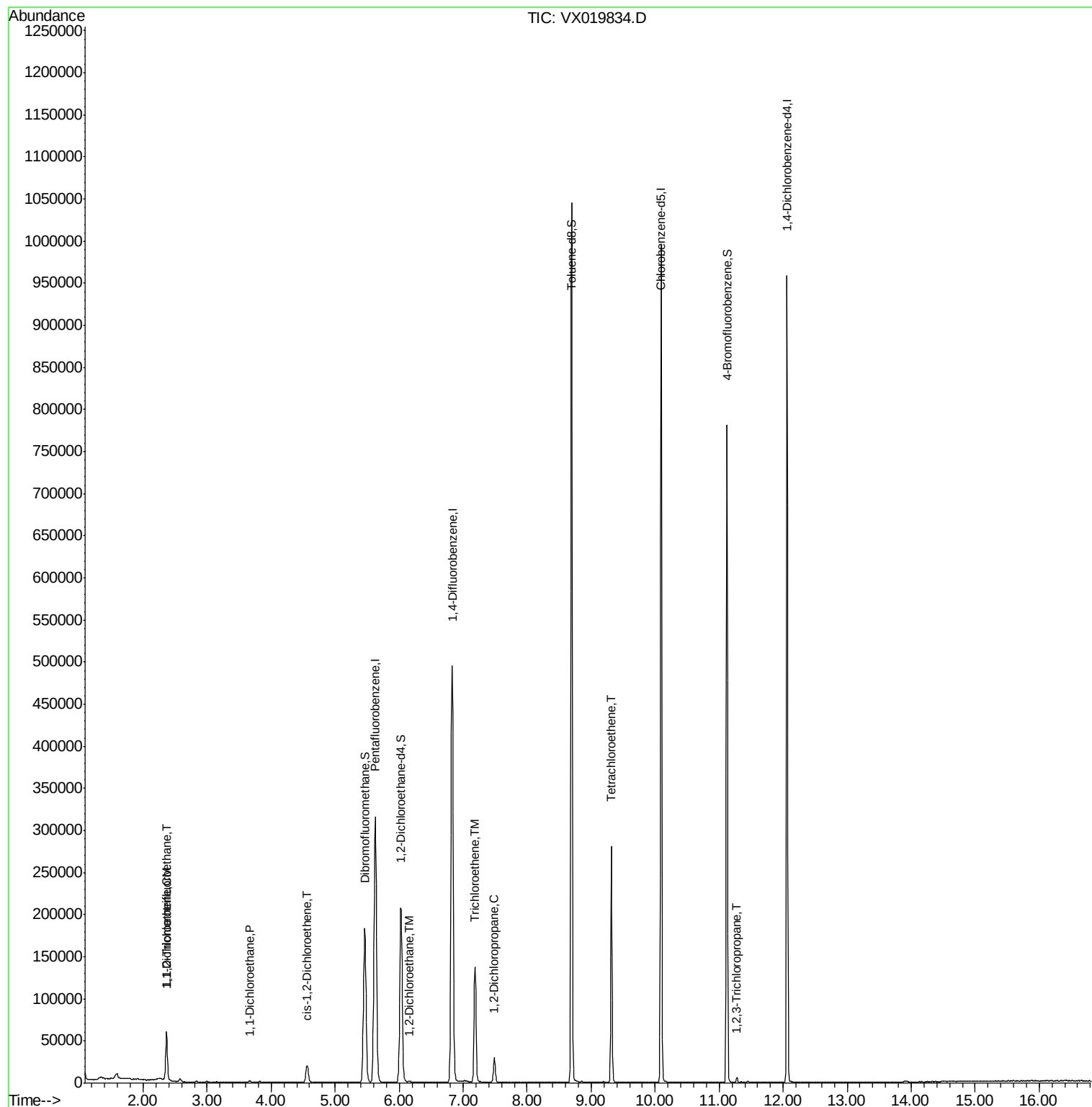
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121020\  
Data File : VX019834.D  
Acq On : 10 Dec 2020 18:36  
Operator : JC/MD  
Sample : L4996-22  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 25 Sample Multiplier: 1

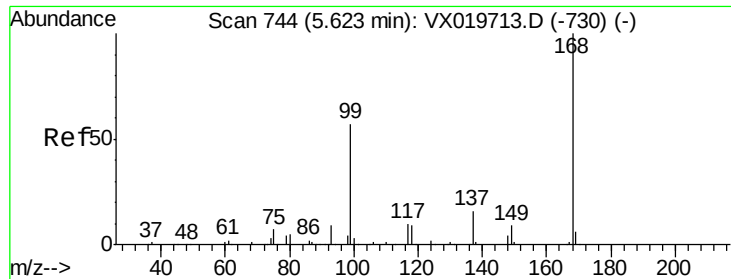
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20201208

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Quant Time: Dec 11 02:36:33 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 04 15:32:53 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019834.D

Acq: 10 Dec 2020 18:36

Instrument :

MSVOA\_X

ClientSampleId :

RE135D3-20201208

Tot Ion:168 Resp: 309412

Ion Ratio Lower Upper

168 100

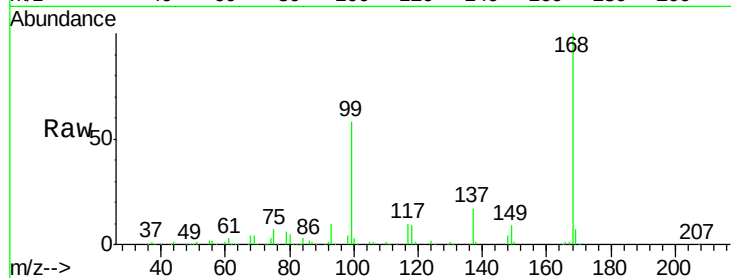
99 58.0 45.8 68.6

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

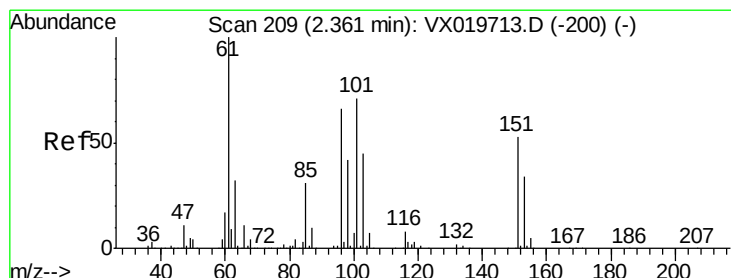
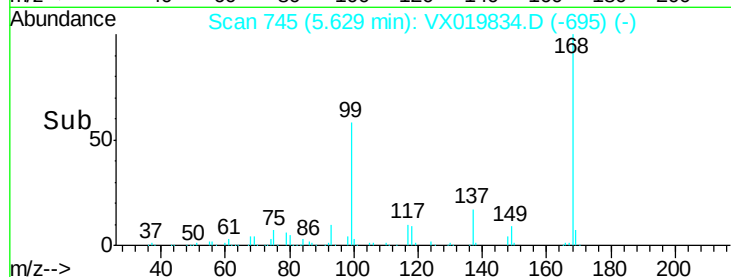
60000

40000

20000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.340 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019834.D

Acq: 10 Dec 2020 18:36

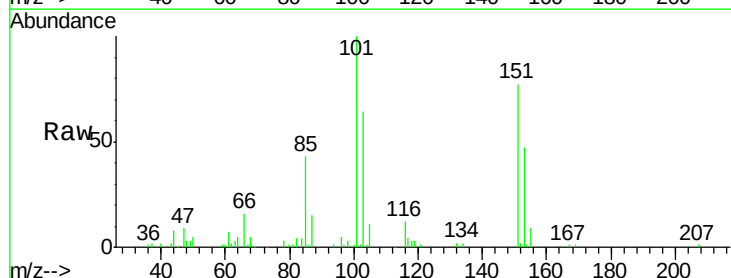
Tgt Ion:101 Resp: 23386

Ion Ratio Lower Upper

101 100

85 42.4 34.9 52.3

151 74.2 61.4 92.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.37

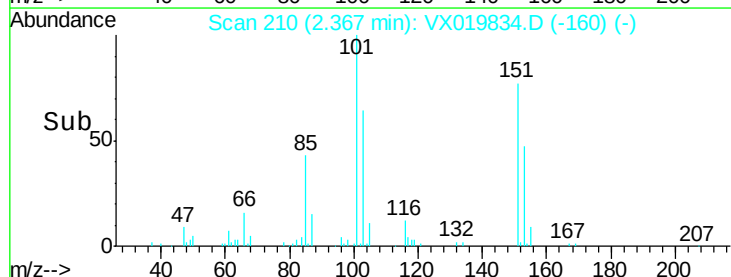
15000

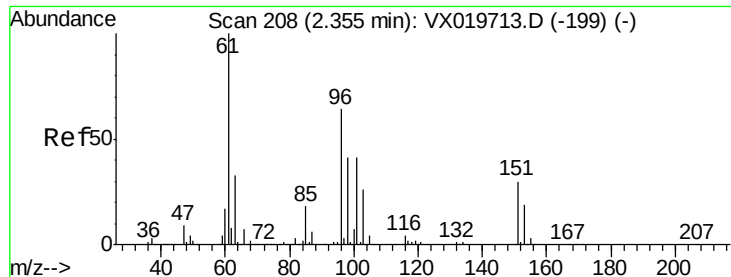
10000

5000

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.642 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX019834.D

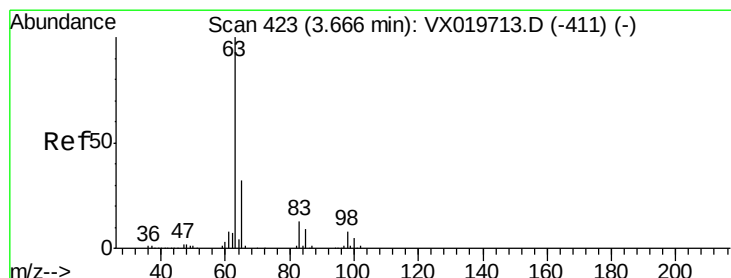
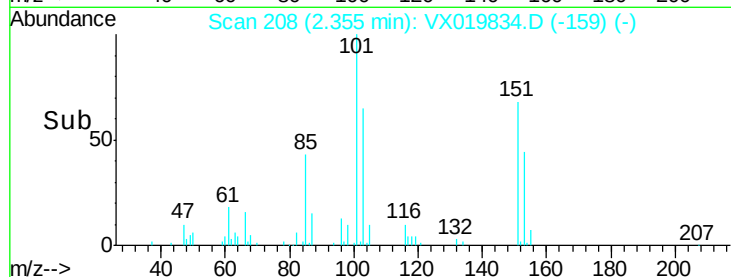
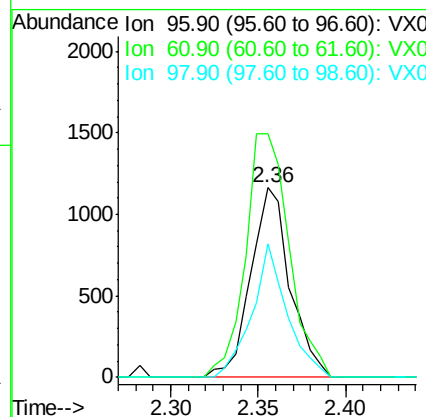
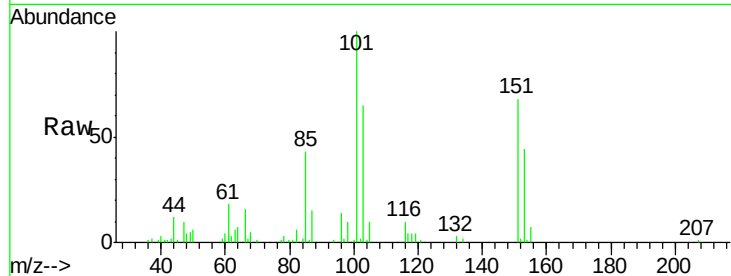
Acq: 10 Dec 2020 18:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20201208

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 1821  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 128.6 | 124.6 | 187.0 |
| 98       | 70.8  | 50.6  | 76.0  |

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#24

1,1-Dichloroethane

Concen: 0.392 ug/l

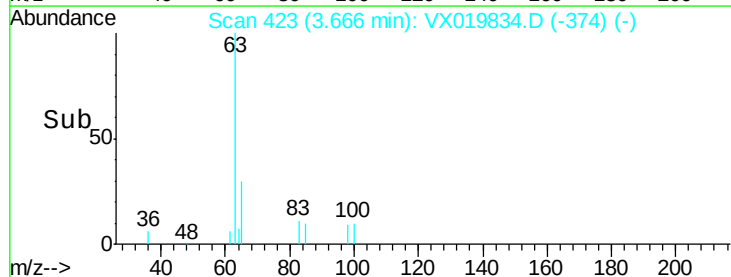
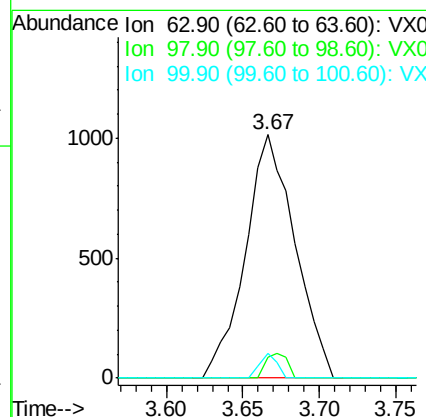
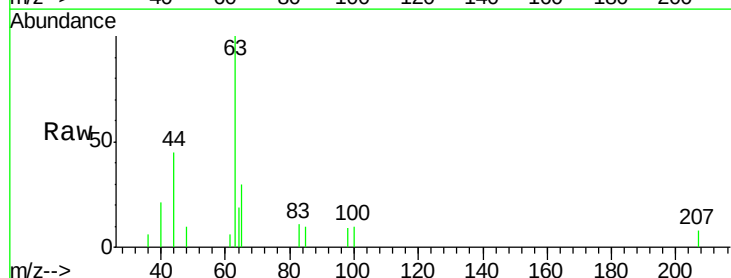
RT: 3.67 min Scan# 423

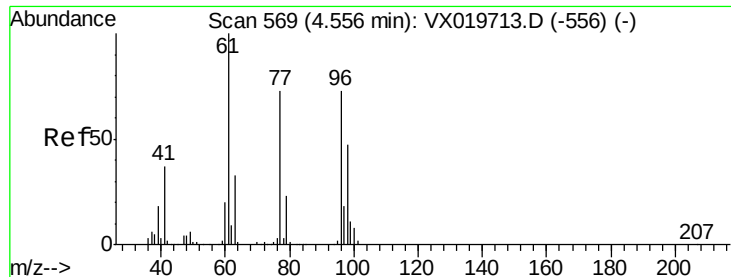
Delta R.T. 0.00 min

Lab File: VX019834.D

Acq: 10 Dec 2020 18:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 2289  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 8.6   | 3.8   | 11.2  |
| 100      | 10.2  | 2.5   | 7.5#  |





#27

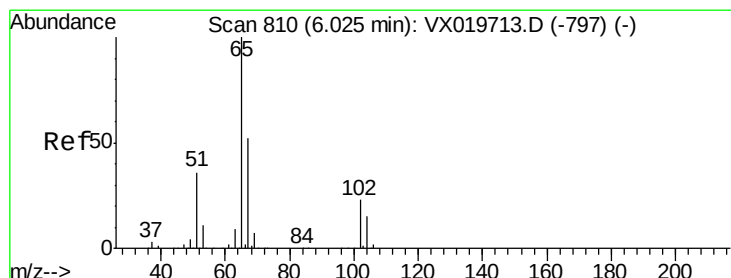
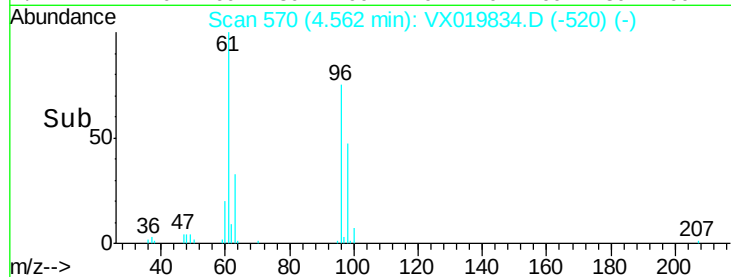
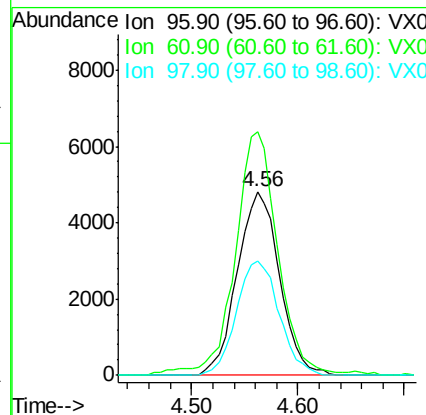
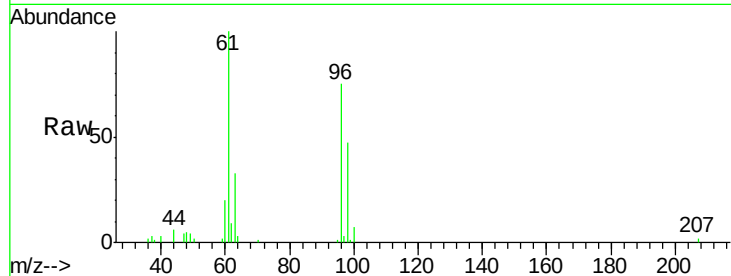
cis-1,2-Dichloroethene  
 Concen: 3.462 ug/l  
 RT: 4.56 min Scan# 570  
 Delta R.T. 0.01 min  
 Lab File: VX019834.D  
 Acq: 10 Dec 2020 18:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20201208

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 96      | 100   |      |       |       |
| 61      | 134.0 | 0.0  | 285.6 |       |
| 98      | 62.7  | 0.0  | 129.6 |       |

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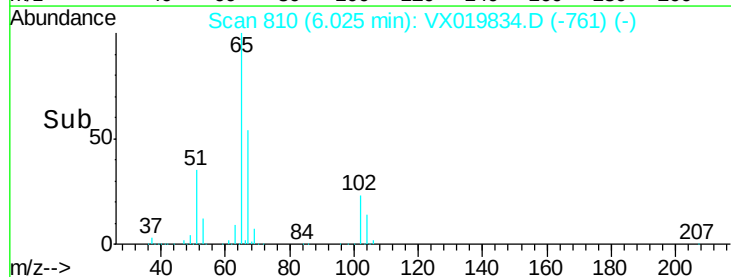
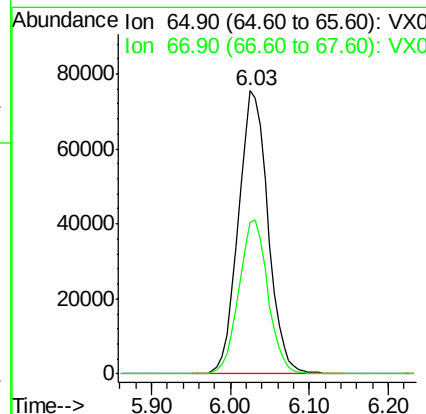
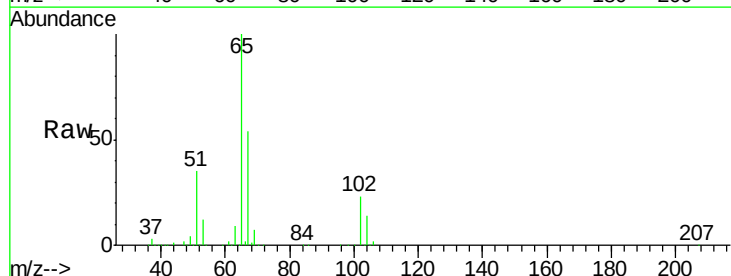
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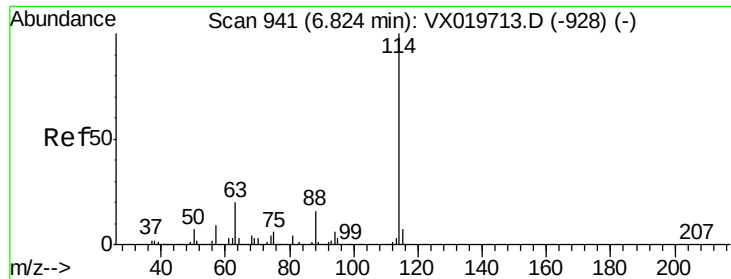


#33

1,2-Dichloroethane-d4  
 Concen: 48.578 ug/l  
 RT: 6.03 min Scan# 810  
 Delta R.T. 0.00 min  
 Lab File: VX019834.D  
 Acq: 10 Dec 2020 18:36

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 65      | 100   |      |       |       |
| 67      | 53.4  | 0.0  | 105.4 |       |





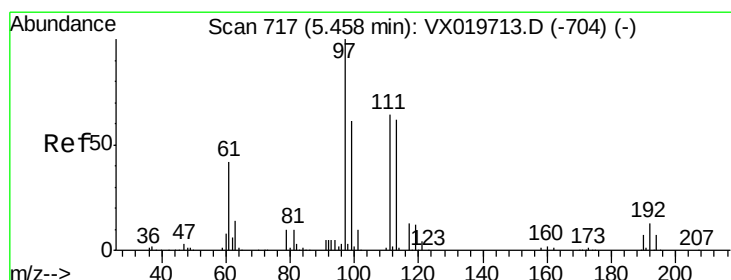
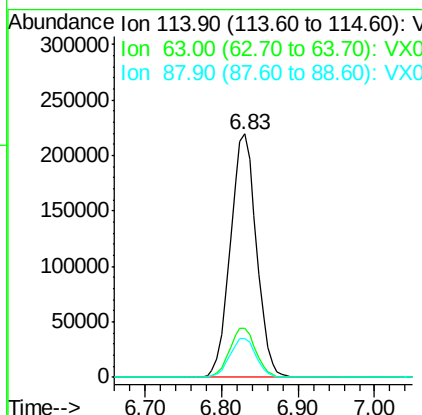
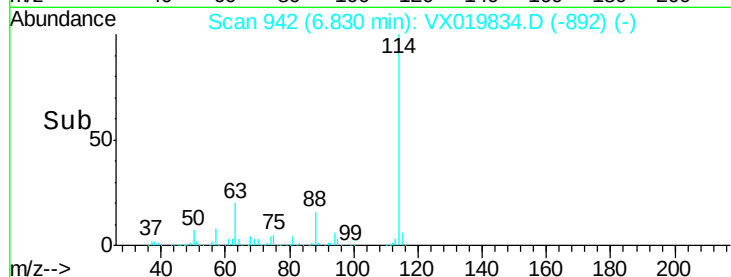
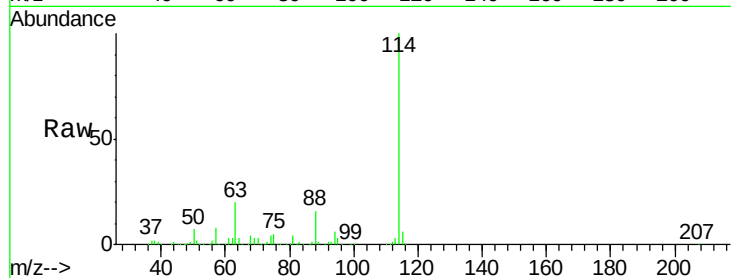
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. 0.01 min  
 Lab File: VX019834.D  
 Acq: 10 Dec 2020 18:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20201208

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 114     | 100   |            |       |
| 63      | 20.2  | 0.0        | 40.8  |
| 88      | 16.2  | 0.0        | 32.8  |

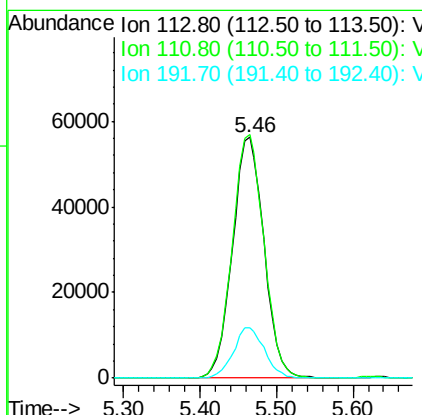
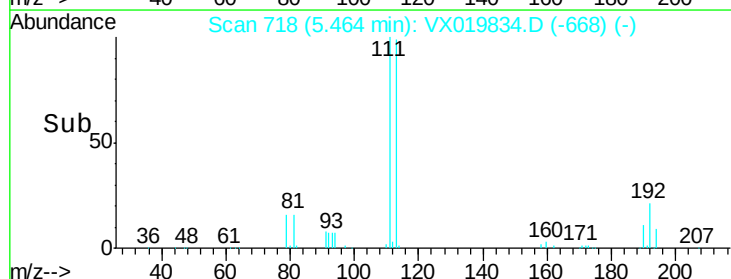
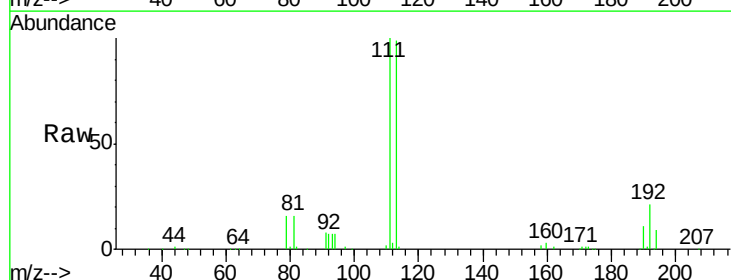
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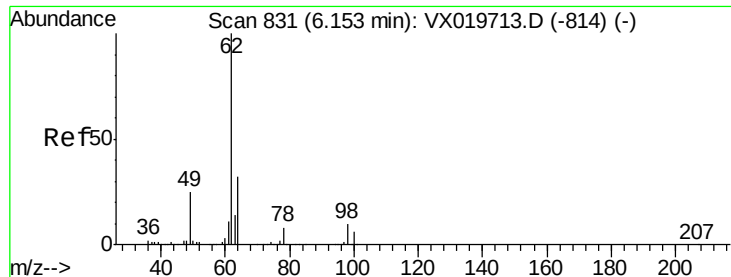
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#35  
 Dibromofluoromethane  
 Concen: 48.033 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. 0.01 min  
 Lab File: VX019834.D  
 Acq: 10 Dec 2020 18:36

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 113     | 100   |            |       |
| 111     | 101.8 | 81.9       | 122.9 |
| 192     | 20.8  | 16.7       | 25.1  |





#42

1,2-Dichloroethane

Concen: 0.286 ug/l

RT: 6.16 min Scan# 832

Delta R.T. 0.01 min

Lab File: VX019834.D

Acq: 10 Dec 2020 18:36

Instrument :

MSVOA\_X

ClientSampleId :

RE135D3-20201208

Tot Ion: 62 Resp: 1392

Ion Ratio Lower Upper

62 100

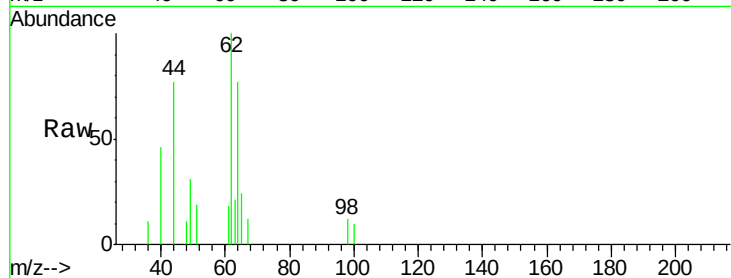
98 7.5 0.0 20.2

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Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.16

600

500

400

300

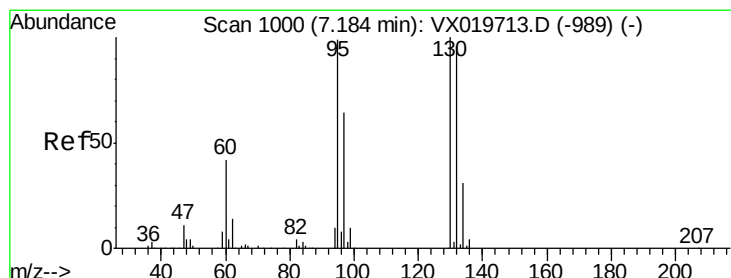
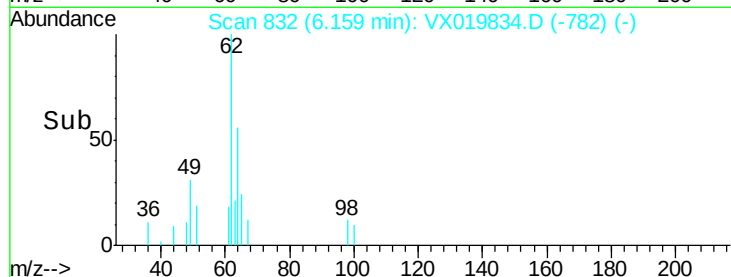
200

100

0

6.10 6.15 6.20

Time-->



#44

Trichloroethene

Concen: 14.378 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019834.D

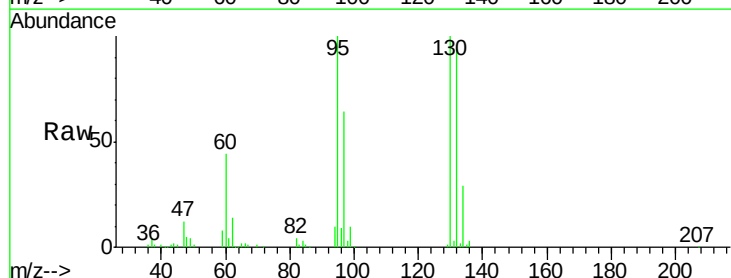
Acq: 10 Dec 2020 18:36

Tgt Ion:130 Resp: 53805

Ion Ratio Lower Upper

130 100

95 99.7 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

30000

25000

20000

15000

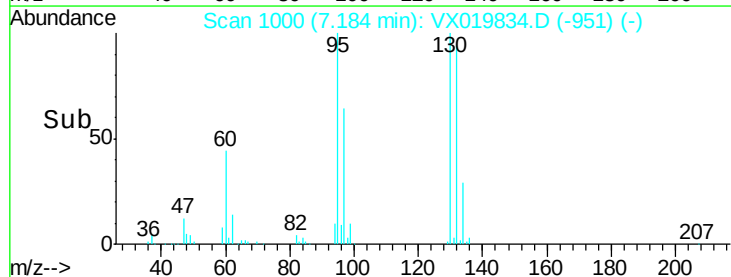
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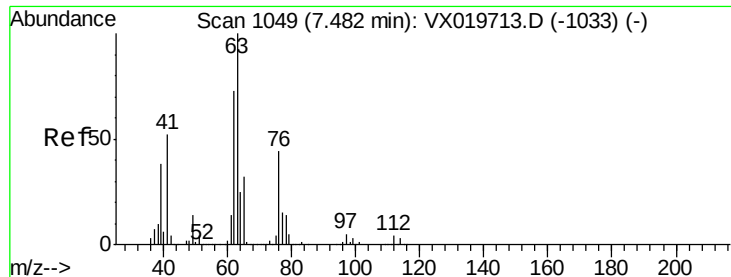
5000

0

7.10 7.15 7.20 7.25 7.30

Time-->





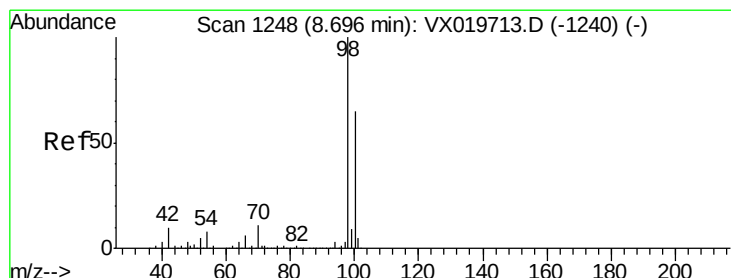
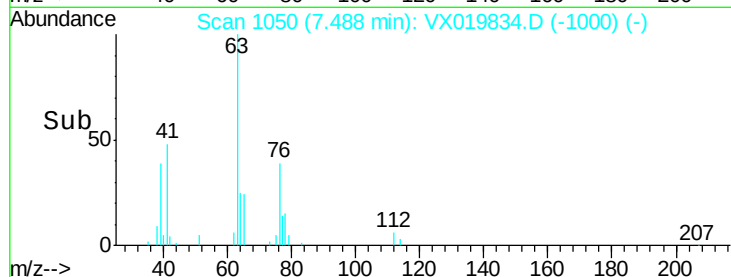
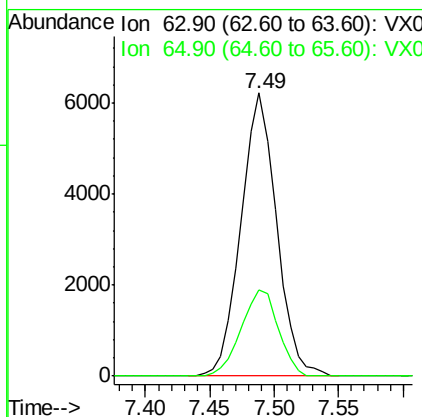
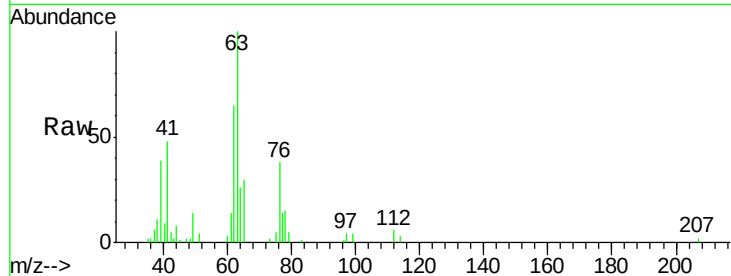
#45  
 1,2-Dichloropropane  
 Concen: 3.332 ug/l  
 RT: 7.49 min Scan# 1050  
 Delta R.T. 0.01 min  
 Lab File: VX019834.D  
 Acq: 10 Dec 2020 18:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20201208

Tot Ion: 63 Resp: 11877  
 Ion Ratio Lower Upper  
 63 100  
 65 30.4 25.7 38.5

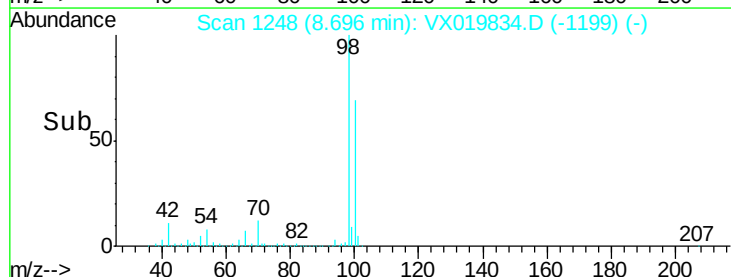
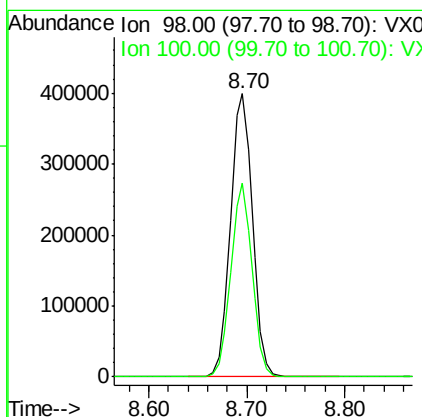
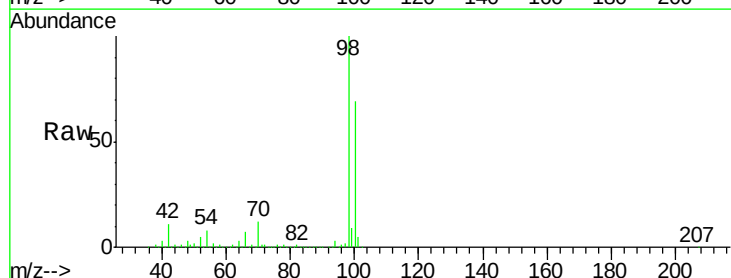
Manual Integrations  
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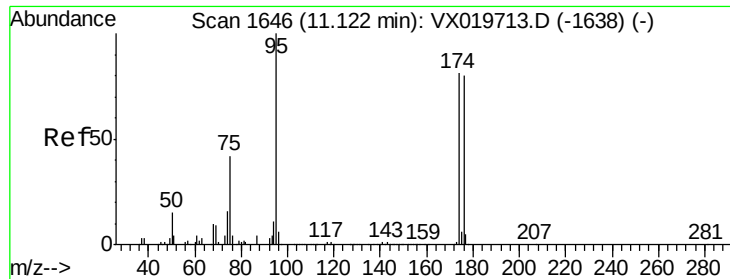


#50  
 Toluene-d8  
 Concen: 48.704 ug/l  
 RT: 8.70 min Scan# 1248  
 Delta R.T. 0.00 min  
 Lab File: VX019834.D  
 Acq: 10 Dec 2020 18:36

Tgt Ion: 98 Resp: 620919  
 Ion Ratio Lower Upper  
 98 100  
 100 66.2 51.9 77.9







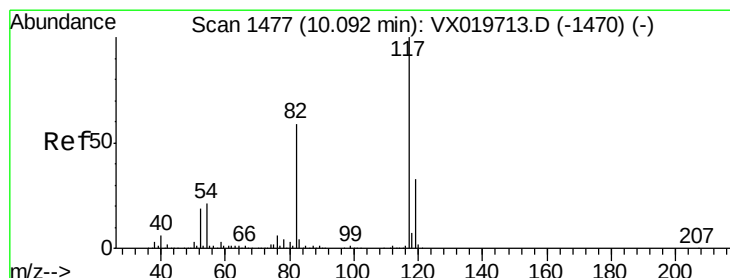
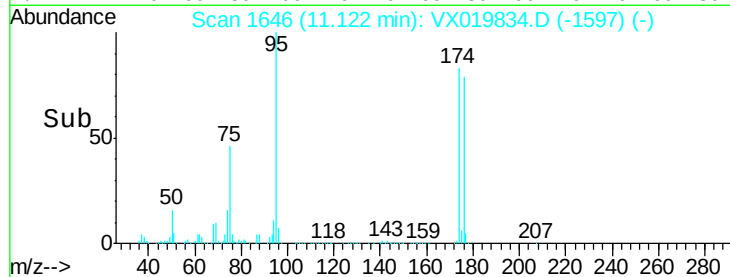
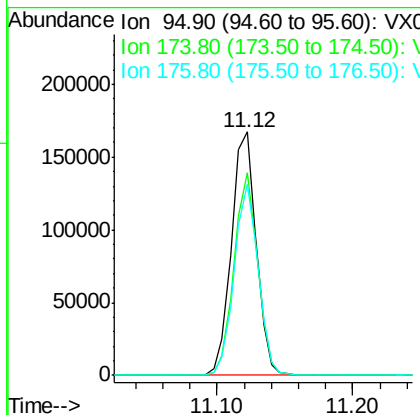
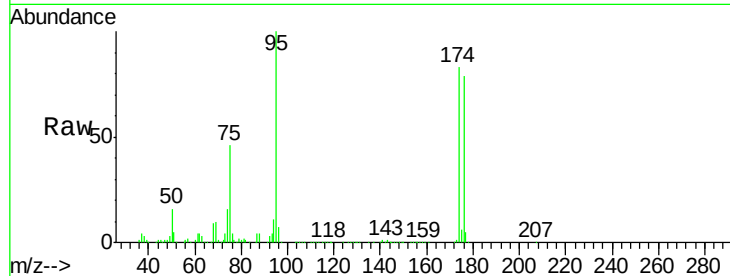
#62  
4-Bromofluorobenzene  
Concen: 43.647 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.00 min  
Lab File: VX019834.D  
Acq: 10 Dec 2020 18:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20201208

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 211792 |       |       |
| 174     | 79.6  | 0.0    | 154.6 |       |
| 176     | 76.1  | 0.0    | 155.8 |       |

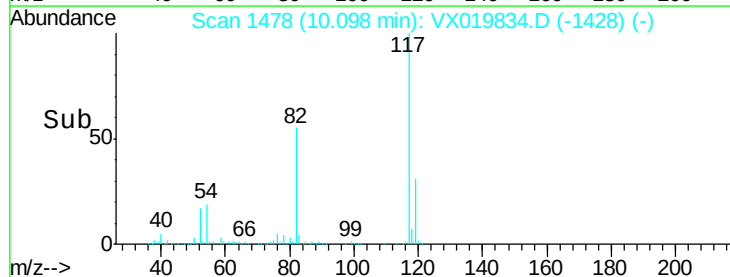
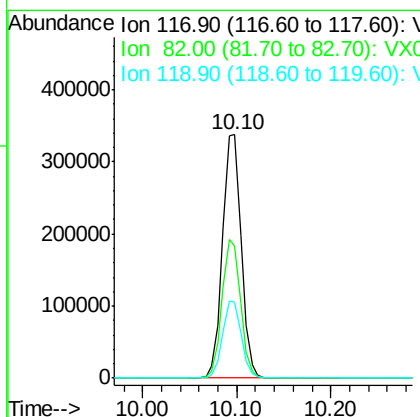
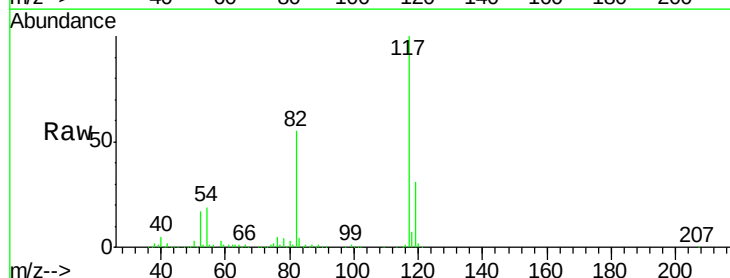
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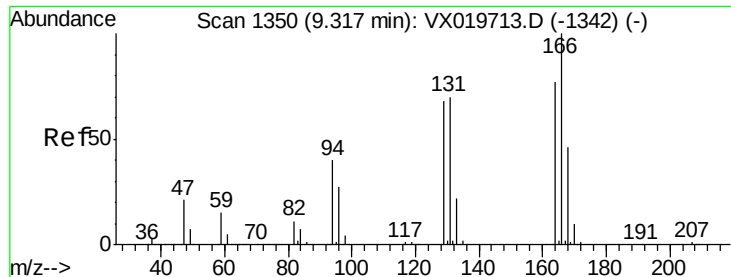
MMDadoda  
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#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.01 min  
Lab File: VX019834.D  
Acq: 10 Dec 2020 18:36

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 466521 |       |       |
| 82      | 54.6  | 47.4   | 71.2  |       |
| 119     | 31.4  | 26.6   | 39.8  |       |





#64

Tetrachloroethene

Concen: 17.452 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019834.D

Acq: 10 Dec 2020 18:36

Instrument :

MSVOA\_X

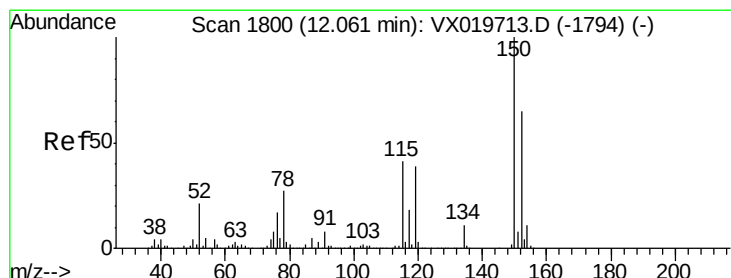
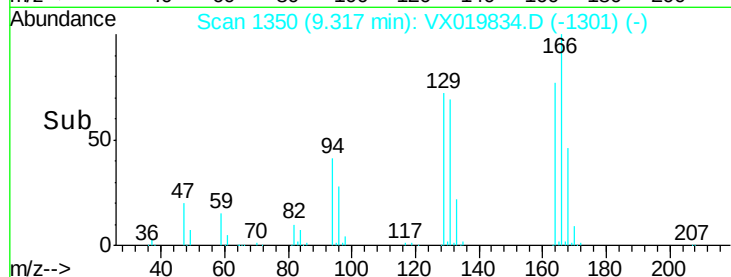
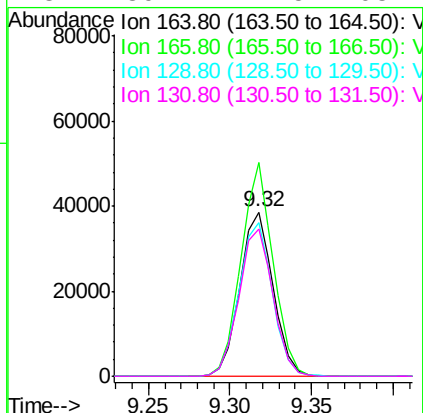
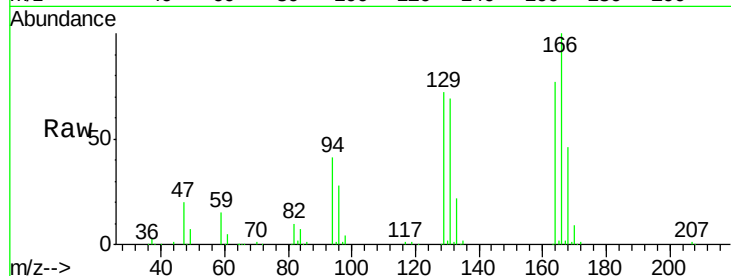
ClientSampleId :

RE135D3-20201208

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 54601 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 166      | 129.9 | 103.4 | 155.2 |
| 129      | 93.3  | 70.8  | 106.2 |
| 131      | 89.4  | 72.5  | 108.7 |

Manual Integrations  
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12/11/2020 5:36:23 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

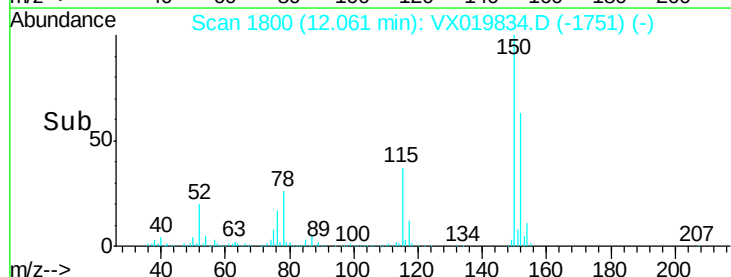
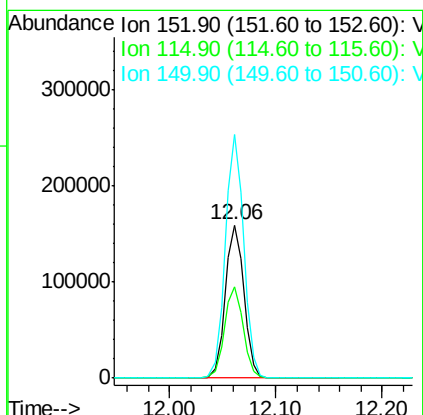
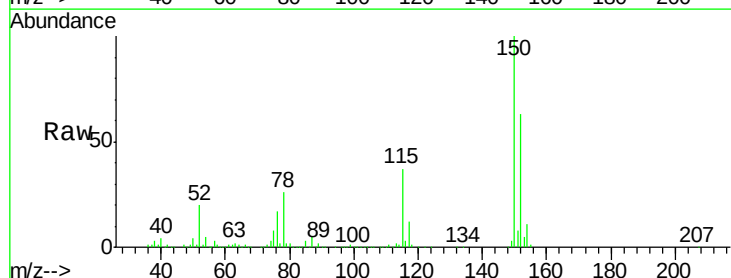
RT: 12.06 min Scan# 1800

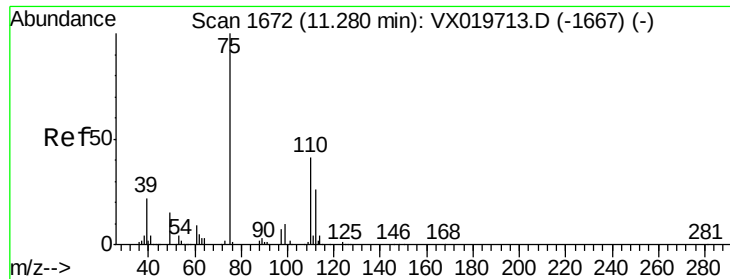
Delta R.T. 0.00 min

Lab File: VX019834.D

Acq: 10 Dec 2020 18:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 195258 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 115      | 59.5  | 41.1  | 123.3  |
| 150      | 157.7 | 0.0   | 349.0  |





#76  
 1,2,3-Trichloropropane  
 Concen: 0.457 ug/l m  
 RT: 11.27 min Scan# 1671  
 Delta R.T. -0.01 min  
 Lab File: VX019834.D  
 Acq: 10 Dec 2020 18:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20201208

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 19.1  | 57.5# |

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2020 5:36:23 PM

