

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120319\  
 Data File : VN059473.D  
 Acq On : 3 Dec 2019 16:13  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

apatel  
 12/4/2019 9:22:19 AM

Quant Time: Dec 03 16:35:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N120319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 03 14:48:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 315671   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 503490   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 438976   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 171994   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |  |
|---------------------------|--------|-----|----------|------|-------|--|
| 33) 1,2-Dichloroethane-d4 | 0.00   | 65  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 50) Toluene-d8            | 0.00   | 98  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 62) 4-Bromofluorobenzene  | 0.00   | 95  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |

## Target Compounds

|                               |      |     |       |        |        | Qvalue |
|-------------------------------|------|-----|-------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 3767  | 1.038  | ug/l   | 95     |
| 3) Chloromethane              | 2.04 | 50  | 5625  | 1.239  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.17 | 62  | 3218  | 0.794  | ug/l   | 92     |
| 6) Chloroethane               | 2.68 | 64  | 1977  | 0.861  | ug/l # | 84     |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 3345  | 0.685  | ug/l   | 86     |
| 8) Diethyl Ether              | 3.39 | 74  | 2368  | 1.114  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 3535  | 1.102  | ug/l # | 89     |
| 12) 1,1-Dichloroethene        | 3.71 | 96  | 3326  | 1.058  | ug/l # | 90     |
| 14) Allyl chloride            | 4.29 | 41  | 7093  | 1.206  | ug/l # | 86     |
| 15) Acrylonitrile             | 4.96 | 53  | 9615  | 5.256  | ug/l   | 98     |
| 16) Acetone                   | 3.80 | 43  | 23848 | 13.174 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.02 | 76  | 14313 | 1.325  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.31 | 43  | 5748  | 1.170  | ug/l # | 68     |
| 19) Methyl tert-butyl Ether   | 5.02 | 73  | 10855 | 1.060  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.53 | 84  | 5549  | 1.531  | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96  | 3953  | 1.151  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.92 | 45  | 11112 | 1.013  | ug/l # | 66     |
| 23) Vinyl Acetate             | 5.88 | 43  | 43896 | 4.933  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 5.81 | 63  | 6688  | 1.062  | ug/l # | 93     |
| 25) 2-Butanone                | 6.82 | 43  | 16361 | 6.555  | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 6.80 | 77  | 6144  | 1.145  | ug/l   | 91     |
| 27) cis-1,2-Dichloroethene    | 6.80 | 96  | 4264  | 1.132  | ug/l   | 93     |
| 28) Bromochloromethane        | 7.17 | 49  | 1121  | 0.522  | ug/l # | 91     |
| 29) Tetrahydrofuran           | 7.19 | 42  | 9716  | 5.853  | ug/l # | 75     |
| 30) Chloroform                | 7.35 | 83  | 6783  | 1.071  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.54 | 97  | 6161  | 1.189  | ug/l # | 48     |
| 36) 1,1-Dichloropropene       | 7.78 | 75  | 5275  | 1.077  | ug/l   | 97     |
| 37) Ethyl Acetate             | 6.91 | 43  | 6392  | 1.211  | ug/l # | 83     |
| 38) Carbon Tetrachloride      | 7.75 | 117 | 4971  | 1.070  | ug/l   | 88     |
| 39) Methylcyclohexane         | 9.07 | 83  | 5979  | 1.020  | ug/l   | 95     |
| 40) Benzene                   | 8.02 | 78  | 14713 | 1.011  | ug/l   | 100    |
| 41) Methacrylonitrile         | 7.17 | 41  | 2375m | 0.969  | ug/l   |        |
| 42) 1,2-Dichloroethane        | 8.11 | 62  | 5092  | 1.095  | ug/l   | 90     |
| 43) Isopropyl Acetate         | 8.15 | 43  | 7611  | 0.953  | ug/l # | 89     |

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 Sample : VSTDIC001  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VSTDIC001

Manual Integrations  
 APPROVED

apatel  
 12/4/2019 9:22:19 AM

Quant Time: Dec 03 16:35:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N120319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 03 14:48:54 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 44) Trichloroethene            | 8.82  | 130  | 4309     | 1.163  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.10  | 63   | 3833     | 1.006  | ug/l   | 93       |
| 46) Dibromomethane             | 9.19  | 93   | 2442     | 1.037  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.39  | 83   | 4795     | 1.007  | ug/l # | 91       |
| 48) Methyl methacrylate        | 9.19  | 41   | 3667     | 1.033  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.19  | 88   | 1278     | 25.373 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 24246    | 5.197  | ug/l   | 98       |
| 52) Toluene                    | 10.15 | 92   | 8813     | 1.012  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 5961     | 1.088  | ug/l # | 73       |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 5797     | 0.984  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 3462     | 1.012  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.42 | 69   | 3927     | 0.786  | ug/l # | 83       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 6036     | 1.024  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 5808     | 4.031  | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.75 | 43   | 17638    | 5.086  | ug/l   | 93       |
| 60) Dibromochloromethane       | 10.90 | 129  | 3559     | 1.000  | ug/l   | 94       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 3612     | 1.030  | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.63 | 164  | 4122     | 1.253  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.43 | 112  | 10199    | 1.135  | ug/l   | 91       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.50 | 131  | 3137     | 0.962  | ug/l # | 50       |
| 67) Ethyl Benzene              | 11.51 | 91   | 16165    | 1.022  | ug/l   | 94       |
| 68) m/p-Xylenes                | 11.62 | 106  | 11730    | 1.981  | ug/l   | 94       |
| 69) o-Xylene                   | 11.95 | 106  | 5593     | 0.989  | ug/l   | 99       |
| 70) Styrene                    | 11.97 | 104  | 8542     | 0.963  | ug/l   | 97       |
| 71) Bromoform                  | 12.13 | 173  | 2388     | 0.957  | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.25 | 105  | 14557    | 1.128  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.08 | 43   | 5332     | 1.082  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 4564     | 1.078  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 5113m    | 1.279  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 3944     | 1.249  | ug/l   | 87       |
| 78) n-propylbenzene            | 12.59 | 91   | 16936    | 1.136  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 10461    | 1.175  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 11751    | 1.084  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 11226    | 1.224  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.99 | 119  | 10916    | 1.169  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 11235    | 1.057  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 13483    | 1.089  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 12235    | 1.094  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 7017     | 1.255  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 7454m    | 1.326  | ug/l   |          |
| 89) n-Butylbenzene             | 13.62 | 91   | 11694    | 1.194  | ug/l   | 95       |
| 90) Hexachloroethane           | 13.88 | 117  | 2521     | 1.176  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 6564     | 1.198  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 1539     | 1.600  | ug/l   | 63       |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 4354     | 1.291  | ug/l   | 96       |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 3072     | 1.471  | ug/l   | 92       |
| 95) Naphthalene                | 15.13 | 128  | 16784    | 1.746  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene     | 15.29 | 180  | 5792     | 1.613  | ug/l   | 95       |

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Sample : VSTDICC001  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC001

Manual Integrations  
APPROVED

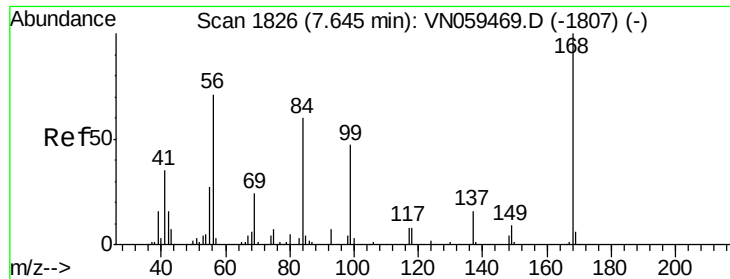
apatel  
12/4/2019 9:22:19 AM

Quant Time: Dec 03 16:35:33 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N120319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 03 14:48:54 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion:168 Resp: 315671

Ion Ratio Lower Upper

168 100

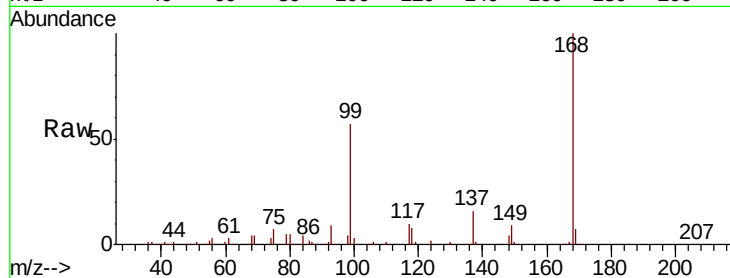
99 56.7 43.4 65.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

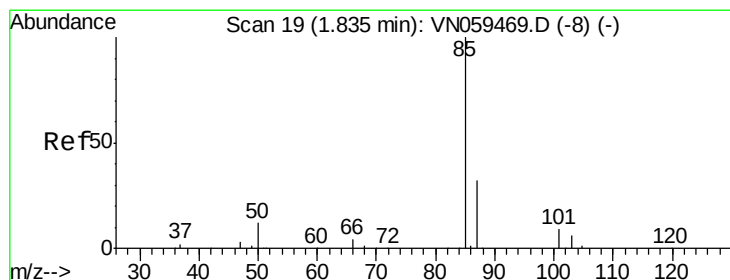
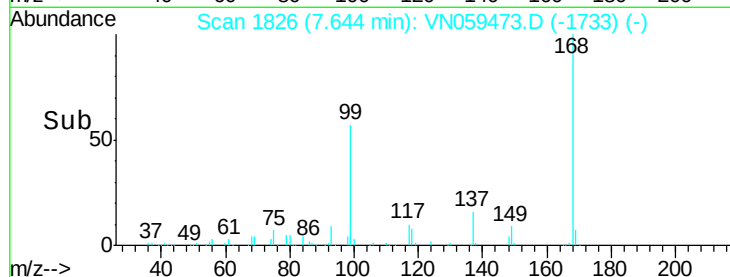
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 1.038 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059473.D

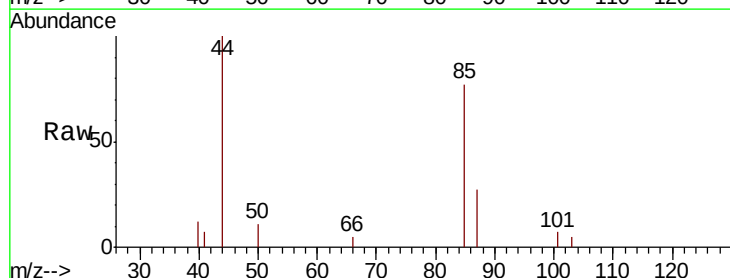
Acq: 3 Dec 2019 16:13

Tgt Ion: 85 Resp: 3767

Ion Ratio Lower Upper

85 100

87 34.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

2500

2000

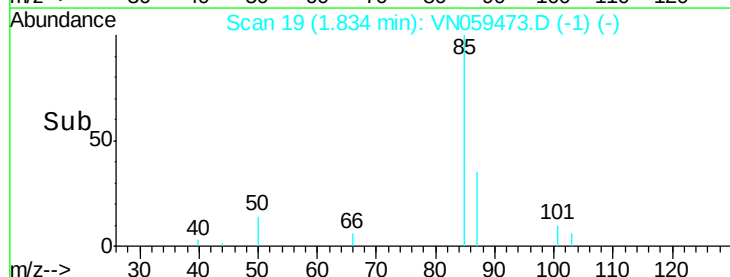
1500

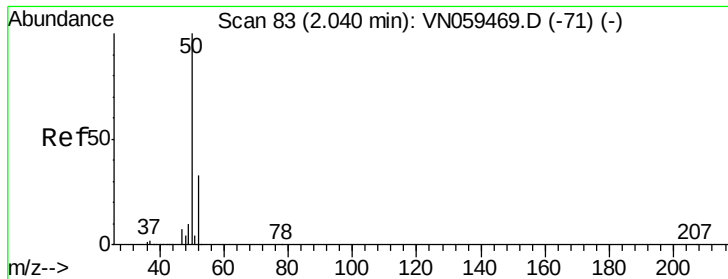
1000

500

0

Time--> 1.80 1.85 1.90





#3

Chloromethane

Concen: 1.239 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 5625

Ion Ratio Lower Upper

50 100

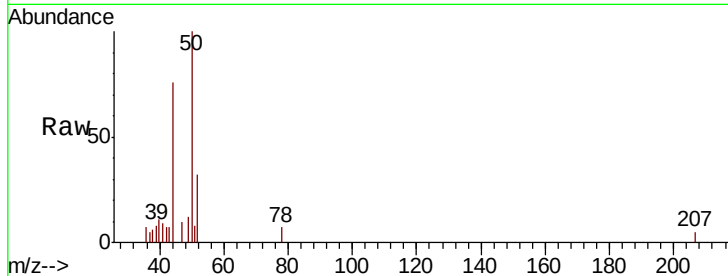
52 32.2 26.5 39.7

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN059473.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN059473.D (-1) (-)

2.04

4000

3000

2000

1000

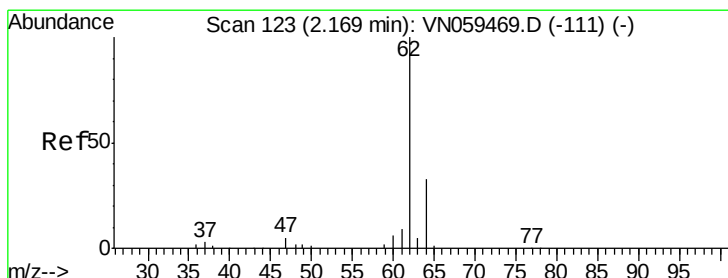
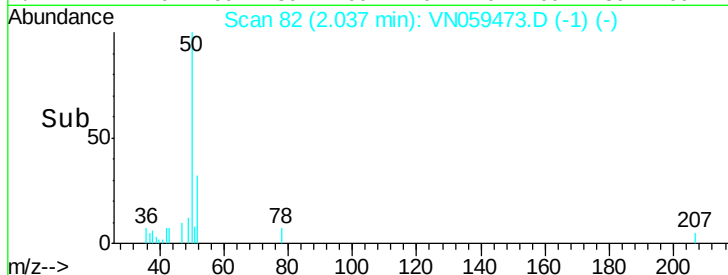
0

Time-->

2.00

2.05

2.10



#4

Vinyl Chloride

Concen: 0.794 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN059473.D

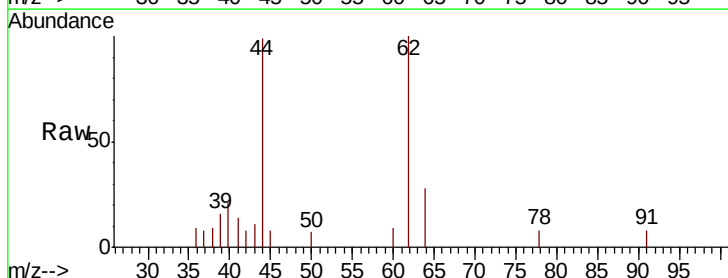
Acq: 3 Dec 2019 16:13

Tgt Ion: 62 Resp: 3218

Ion Ratio Lower Upper

62 100

64 27.9 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VN059473.D (-30) (-)

Ion 63.90 (63.60 to 64.60): VN059473.D (-30) (-)

2.17

2500

2000

1500

1000

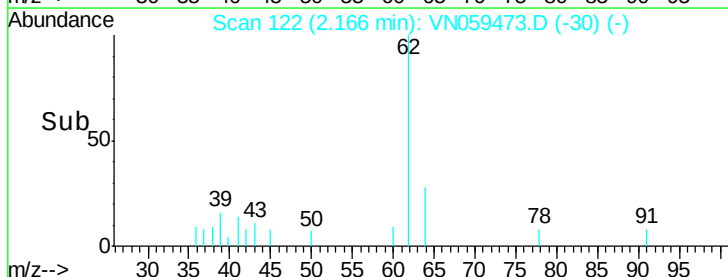
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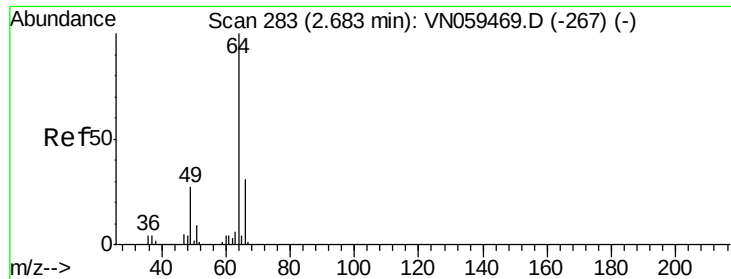
0

Time-->

2.15

2.20





#6

Chloroethane

Concen: 0.861 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 1977

Ion Ratio Lower Upper

64 100

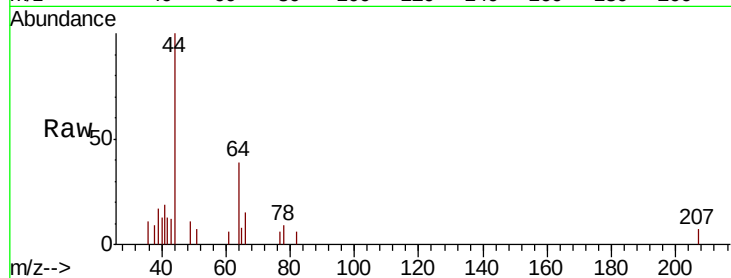
66 40.1 25.2 37.8#

Manual Integrations

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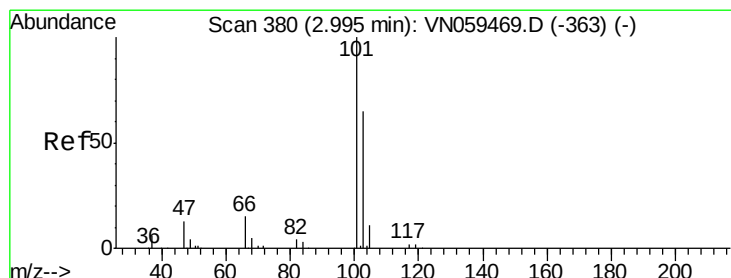
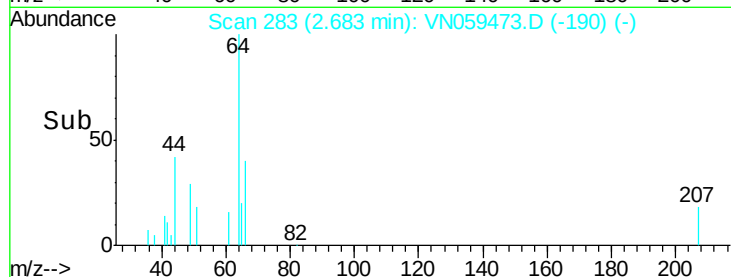
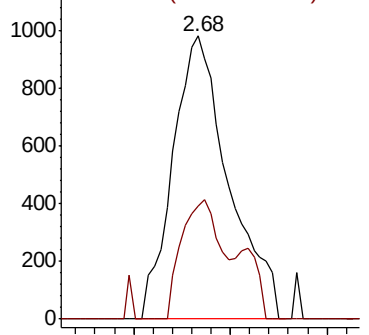
apatel

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Abundance Ion 63.90 (63.60 to 64.60): VN059473.D (-190) (-)

Ion 65.90 (65.60 to 66.60): VN059473.D (-190) (-)



#7

Trichlorofluoromethane

Concen: 0.685 ug/l

RT: 2.99 min Scan# 378

Delta R.T. -0.01 min

Lab File: VN059473.D

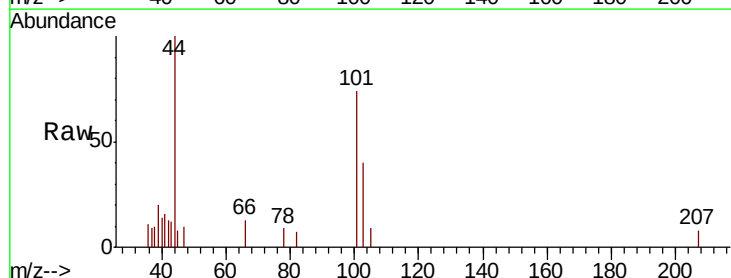
Acq: 3 Dec 2019 16:13

Tgt Ion: 101 Resp: 3345

Ion Ratio Lower Upper

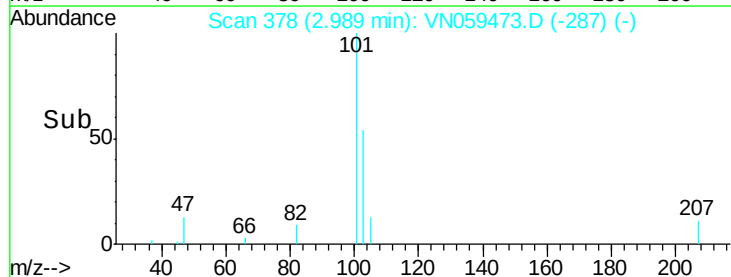
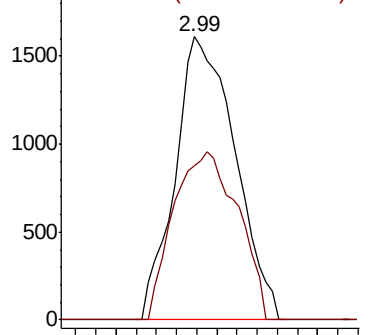
101 100

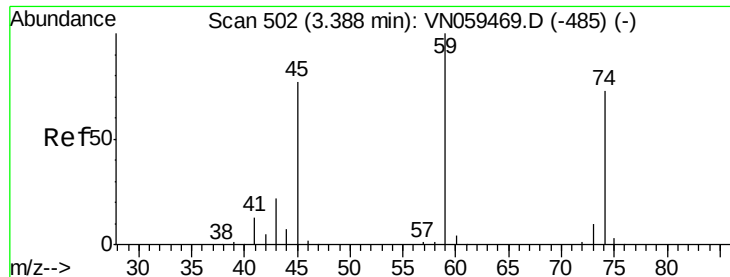
103 54.3 52.4 78.6



Abundance Ion 100.90 (100.60 to 101.60): VN059473.D (-287) (-)

Ion 102.80 (102.50 to 103.50): VN059473.D (-287) (-)





#8

Diethyl Ether

Concen: 1.114 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC001

Tot Ion: 74 Resp: 2368

Ion Ratio Lower Upper

74 100

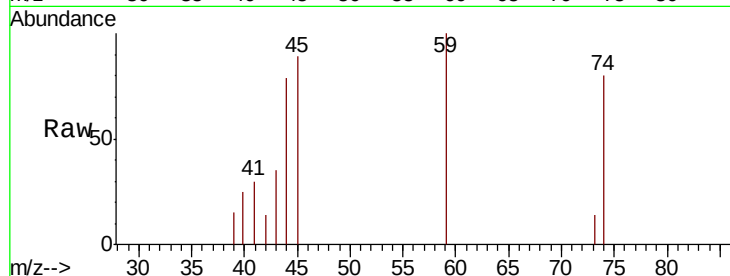
45 108.3 52.3 157.1

Manual Integrations

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Abundance Ion 74.00 (73.70 to 74.70): VN059473.D (-409) (-)

Ion 45.00 (44.70 to 45.70): VN059473.D (-409) (-)

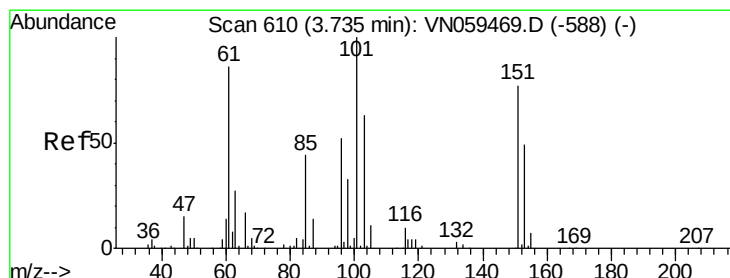
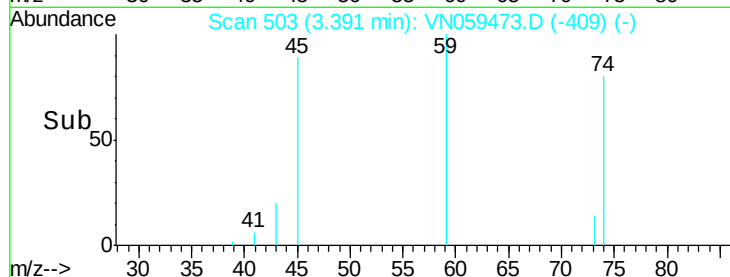
3.39

1000

500

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.102 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

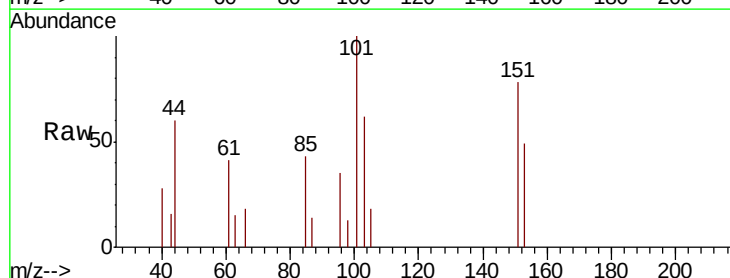
Tgt Ion: 101 Resp: 3535

Ion Ratio Lower Upper

101 100

85 25.0 35.2 52.8#

151 79.2 62.4 93.6



Abundance Ion 100.90 (100.60 to 101.60): VN059473.D (-517) (-)

Ion 84.90 (84.60 to 85.60): VN059473.D (-517) (-)

Ion 150.80 (150.50 to 151.50): VN059473.D (-517) (-)

3.74

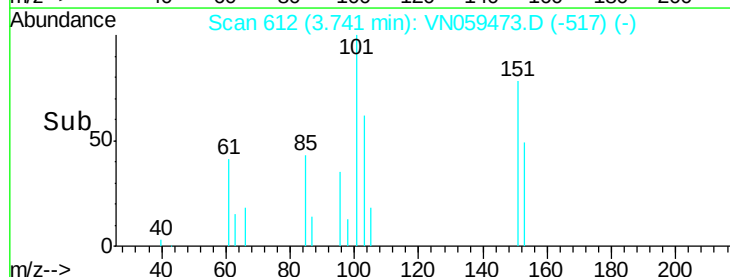
1500

1000

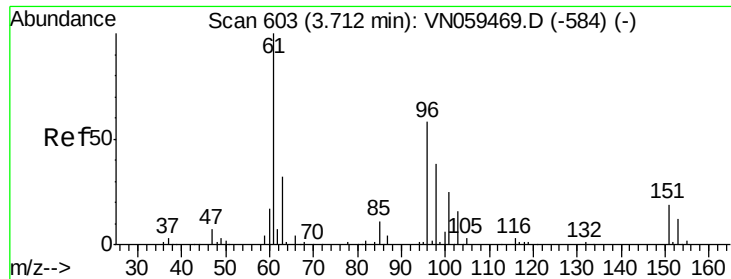
500

0

Time-->







#12

1,1-Dichloroethene

Concen: 1.058 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

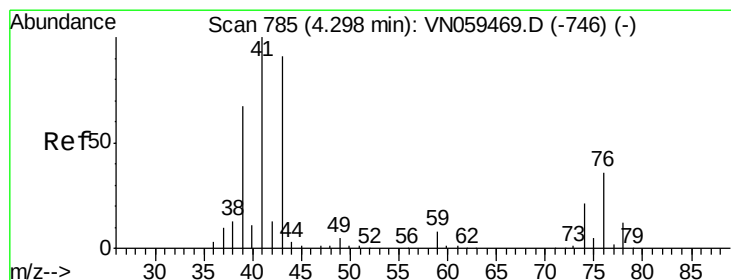
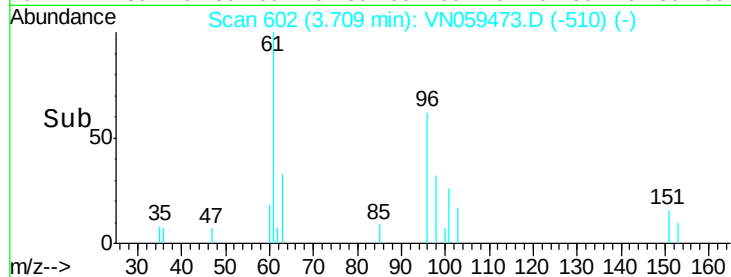
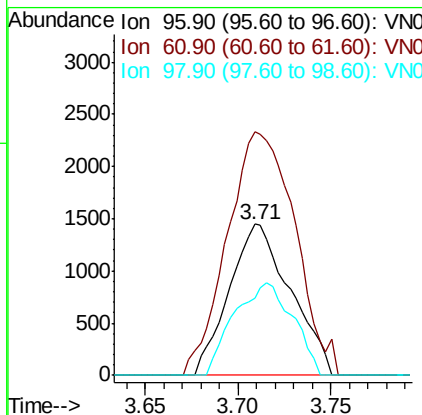
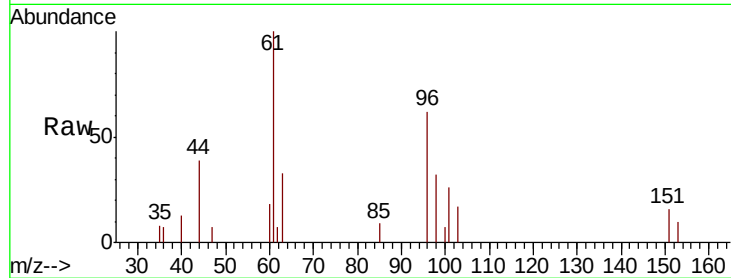
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 3326  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 161.2 | 137.1 | 205.7 |
| 98       | 51.4  | 52.4  | 78.6# |

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#14

Allyl chloride

Concen: 1.206 ug/l

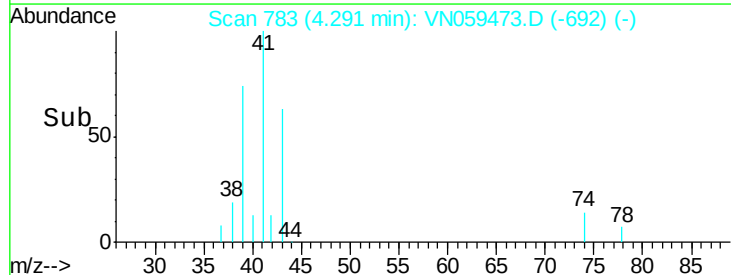
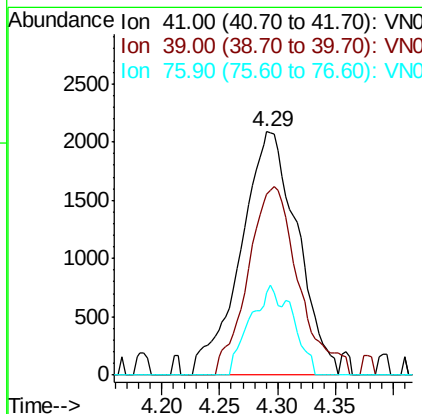
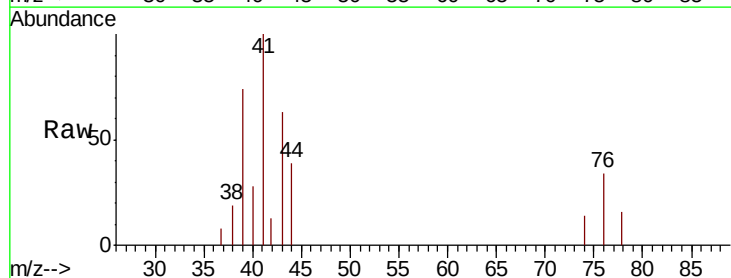
RT: 4.29 min Scan# 783

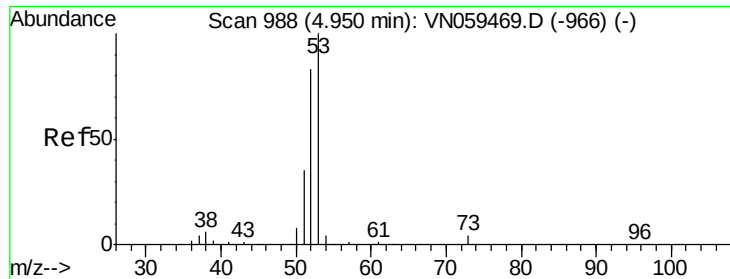
Delta R.T. -0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 7093  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 69.1  | 49.3  | 73.9  |
| 76       | 19.5  | 25.6  | 38.4# |





#15

Acrylonitrile

Concen: 5.256 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

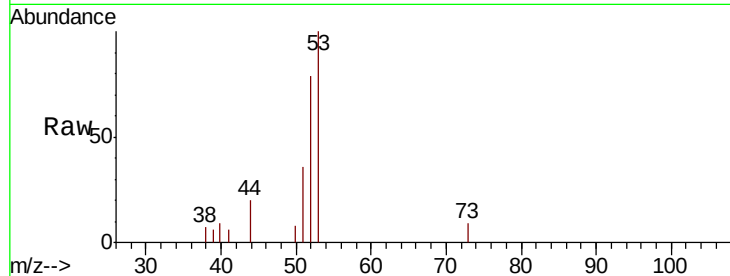
ClientSampleId :

VSTDIC001

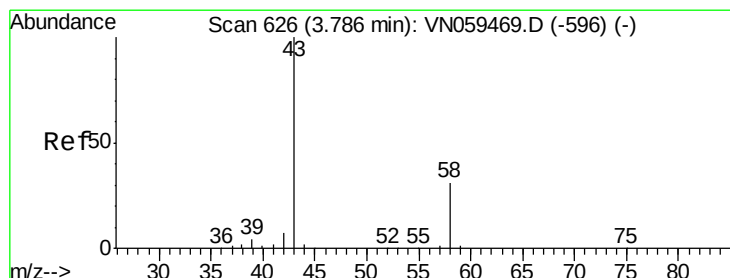
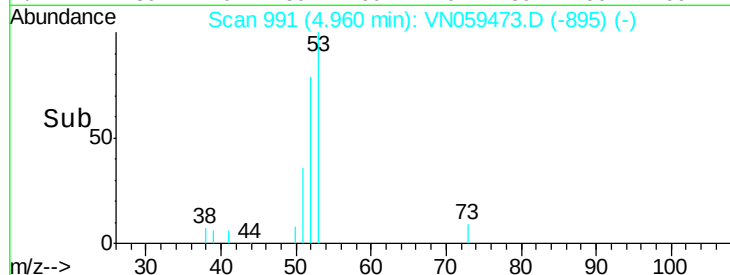
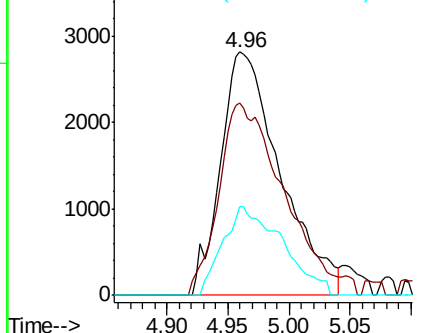
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 9615  |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 84.4  | 65.5  | 98.3  |
| 51       | 36.4  | 28.5  | 42.7  |

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Abundance Ion 53.00 (52.70 to 53.70): VN059473.D (-895) (-)



#16

Acetone

Concen: 13.174 ug/l

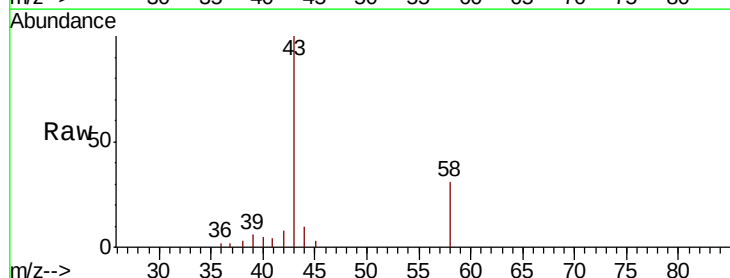
RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

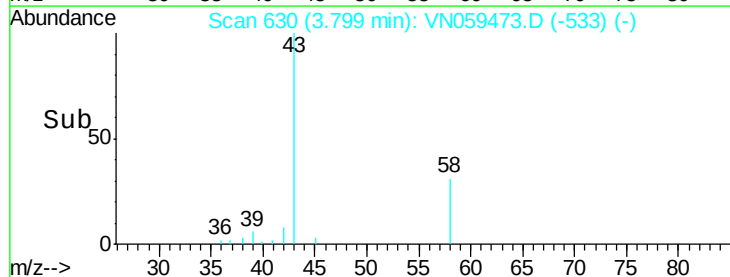
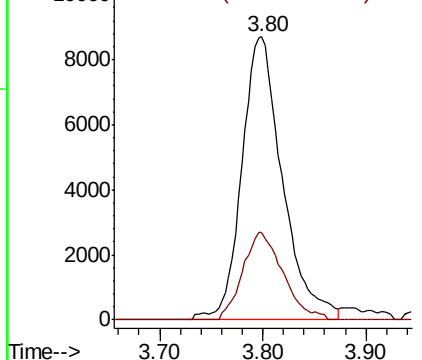
Lab File: VN059473.D

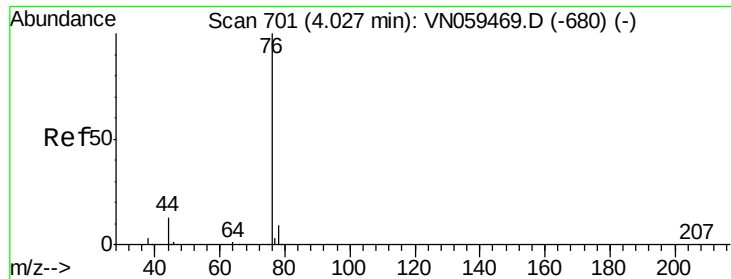
Acq: 3 Dec 2019 16:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 23848 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 30.8  | 24.9  | 37.3  |



Abundance Ion 43.00 (42.70 to 43.70): VN059473.D (-533) (-)





#17

Carbon Disulfide

Concen: 1.325 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion: 76 Resp: 14313

Ion Ratio Lower Upper

76 100

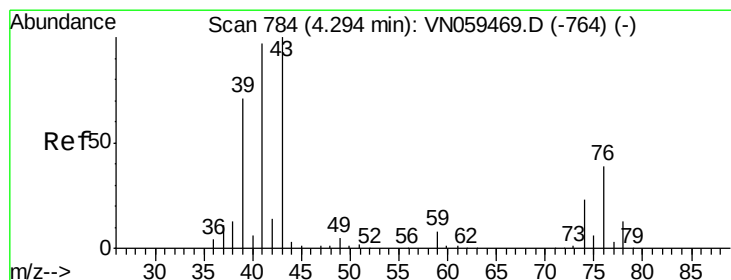
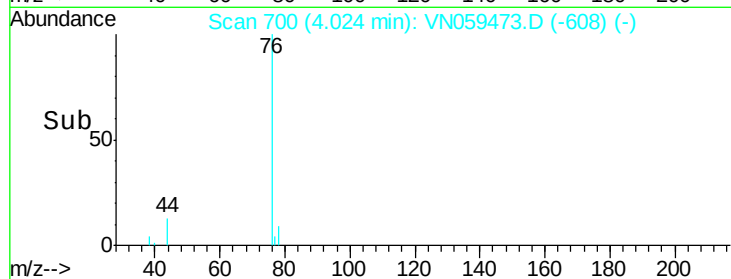
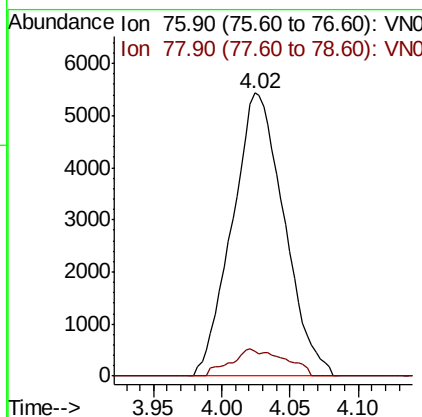
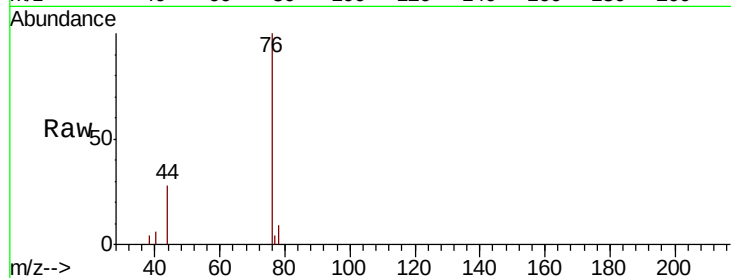
78 8.7 7.0 10.6

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#18

Methyl Acetate

Concen: 1.170 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN059473.D

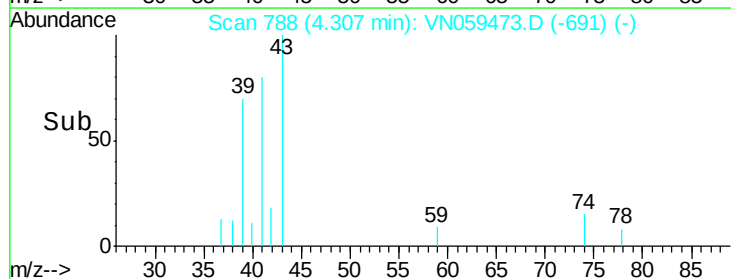
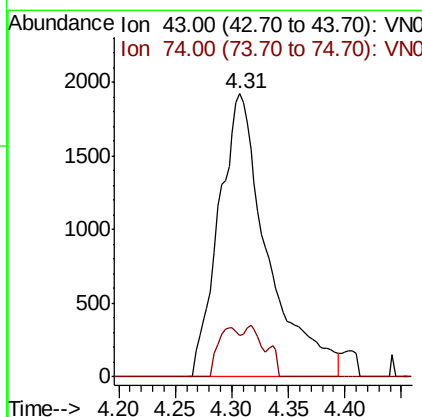
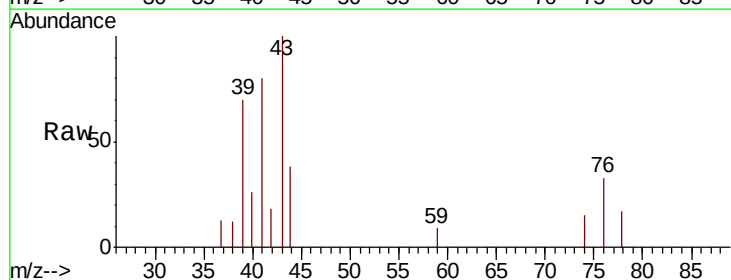
Acq: 3 Dec 2019 16:13

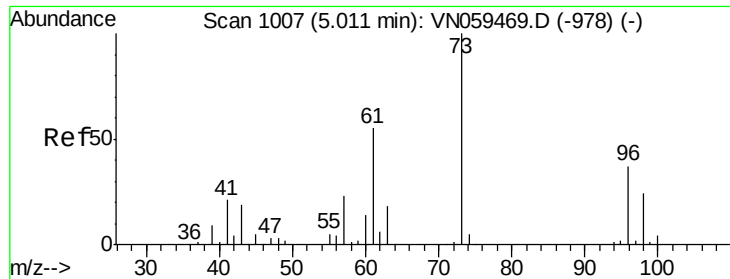
Tgt Ion: 43 Resp: 5748

Ion Ratio Lower Upper

43 100

74 7.5 18.3 27.5#





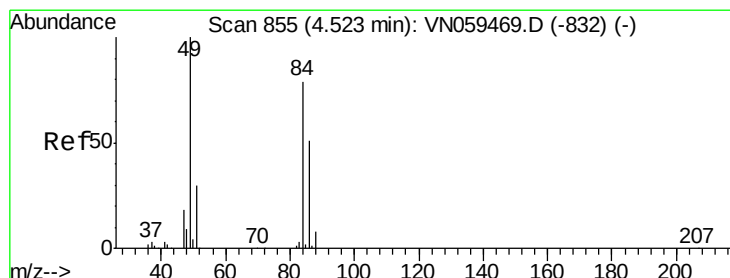
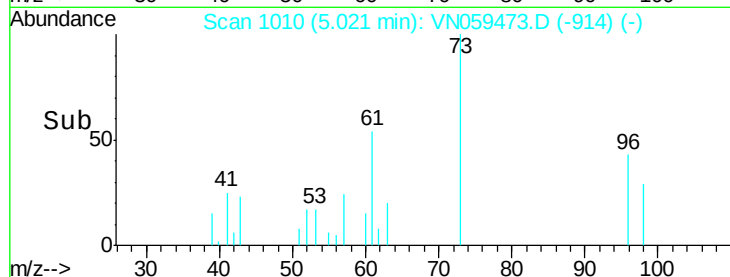
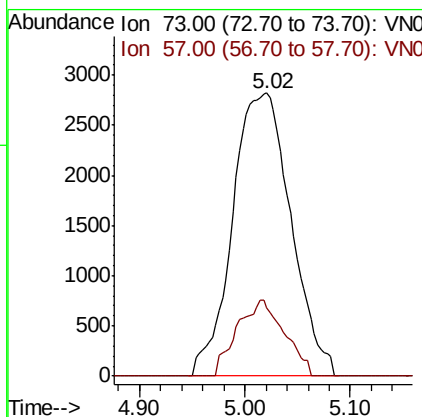
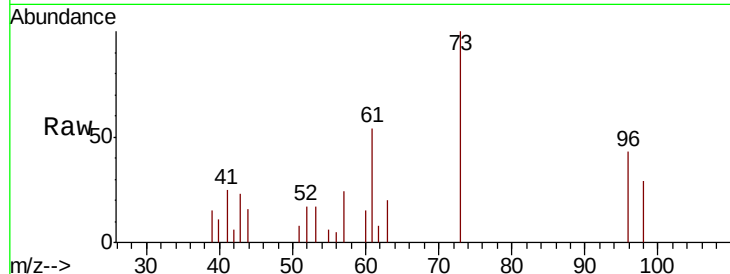
#19  
Methyl tert-butyl Ether  
Concen: 1.060 ug/l  
RT: 5.02 min Scan# 1010  
Delta R.T. 0.01 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDIC001

Tot Ion: 73 Resp: 10855  
Ion Ratio Lower Upper  
73 100  
57 24.3 18.0 27.0

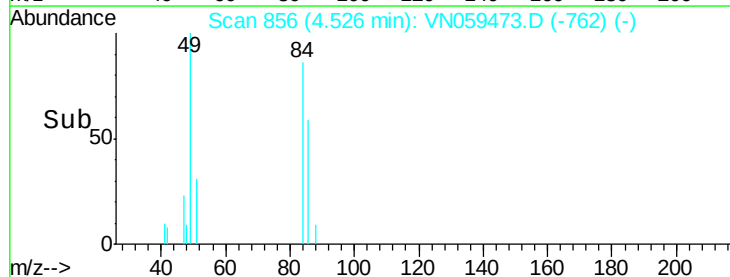
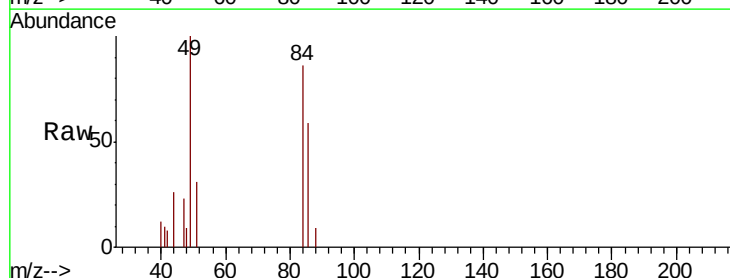
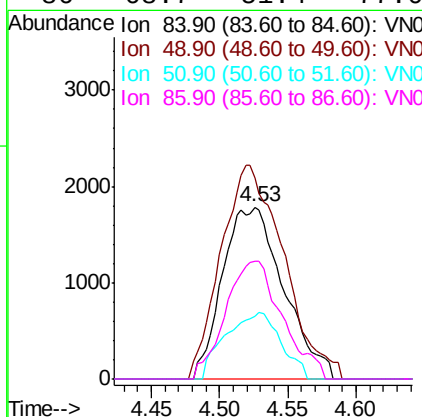
Manual Integrations  
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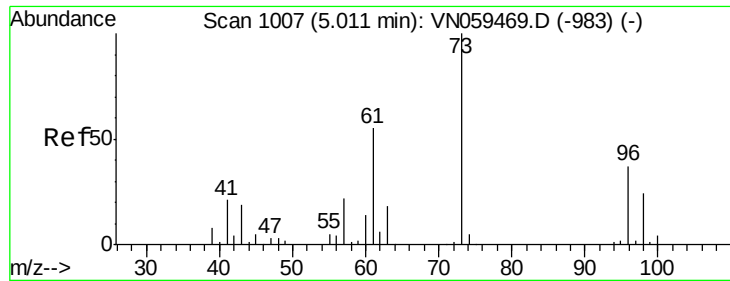
apatel  
12/4/2019 9:22:19 AM



#20  
Methylene Chloride  
Concen: 1.531 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Tgt Ion: 84 Resp: 5549  
Ion Ratio Lower Upper  
84 100  
49 116.7 101.1 151.7  
51 36.7 30.7 46.1  
86 68.7 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 1.151 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

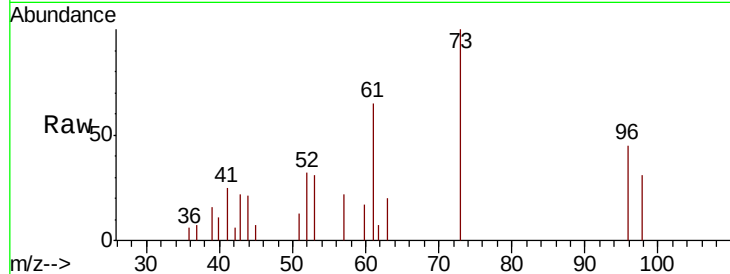
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 3953  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 144.0 | 118.9 | 178.3 |
| 98       | 67.9  | 51.6  | 77.4  |

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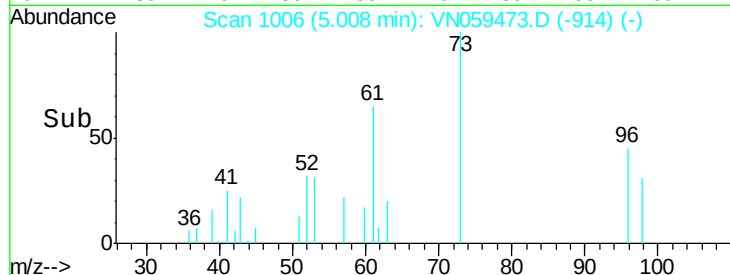


Abundance Ion 95.90 (95.60 to 96.60): VN059473.D (-914) (-)

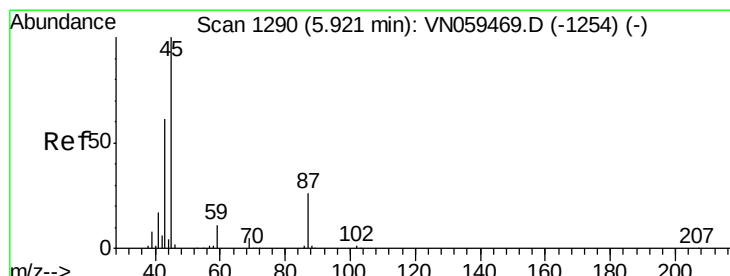
Ion 60.90 (60.60 to 61.60): VN059473.D (-914) (-)

Ion 97.90 (97.60 to 98.60): VN059473.D (-914) (-)

Time-->



Time-->



#22

Diisopropyl ether

Concen: 1.013 ug/l

RT: 5.92 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 11112 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 100.4 | 49.1  | 73.7# |
| 87       | 31.1  | 21.6  | 32.4  |
| 59       | 9.0   | 9.0   | 13.4  |

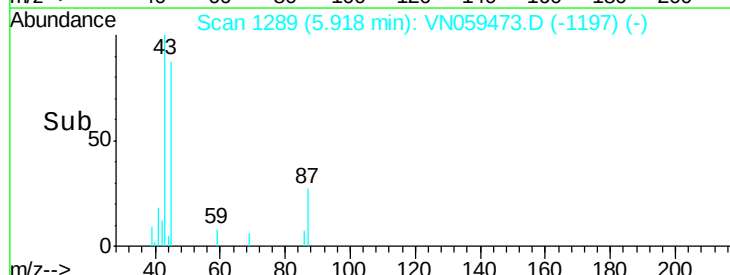
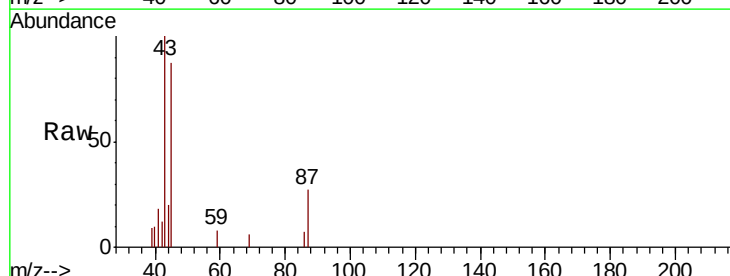
Abundance Ion 45.00 (44.70 to 45.70): VN059473.D (-1197) (-)

Ion 43.00 (42.70 to 43.70): VN059473.D (-1197) (-)

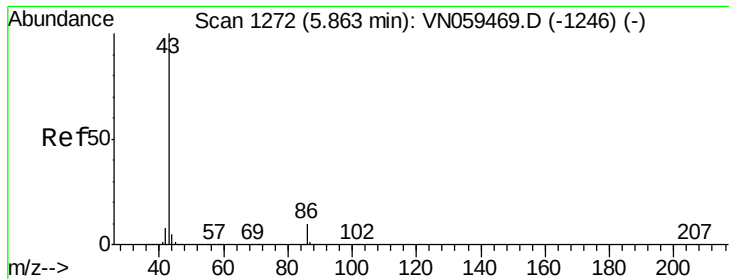
Ion 87.00 (86.70 to 87.70): VN059473.D (-1197) (-)

Ion 59.00 (58.70 to 59.70): VN059473.D (-1197) (-)

Time-->



Time-->



#23

Vinyl Acetate

Concen: 4.933 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC001

Tot Ion: 43 Resp: 43896

Ion Ratio Lower Upper

43 100

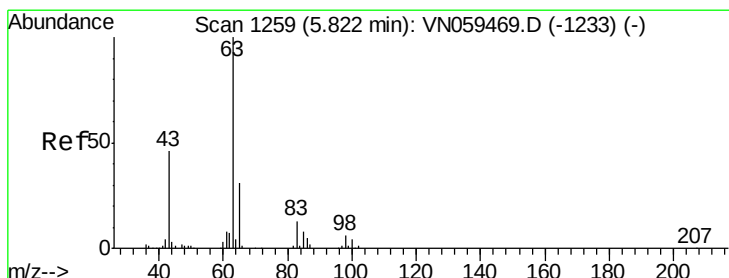
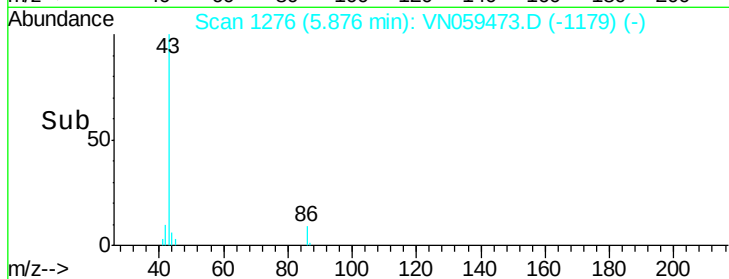
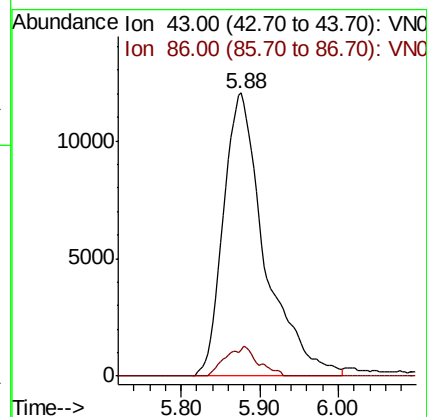
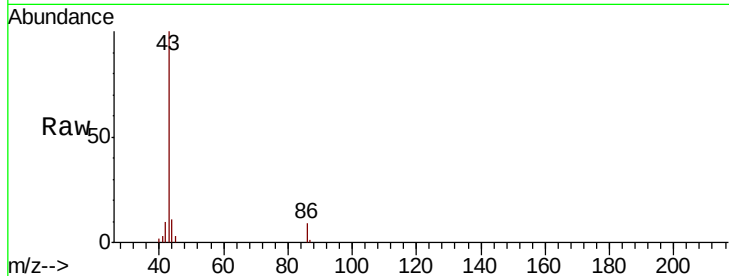
86 9.4 8.0 12.0

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#24

1,1-Dichloroethane

Concen: 1.062 ug/l

RT: 5.81 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

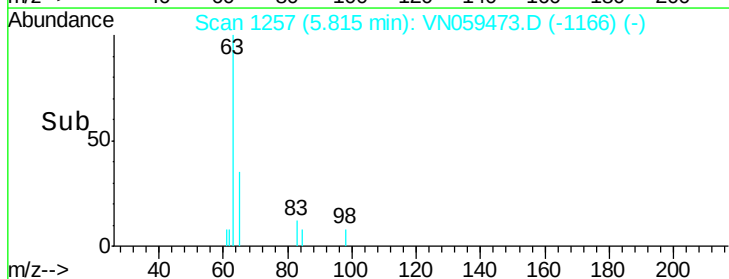
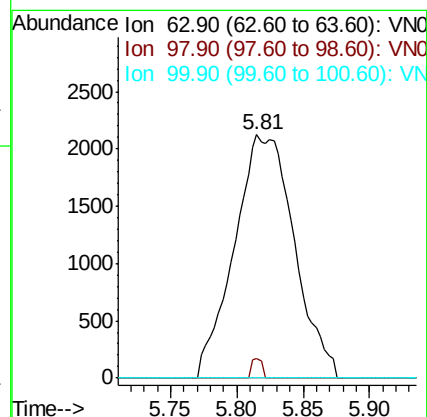
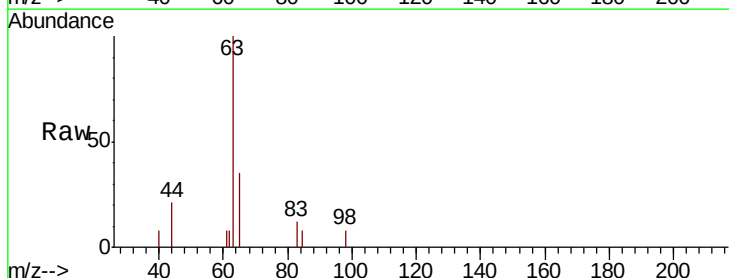
Tgt Ion: 63 Resp: 6688

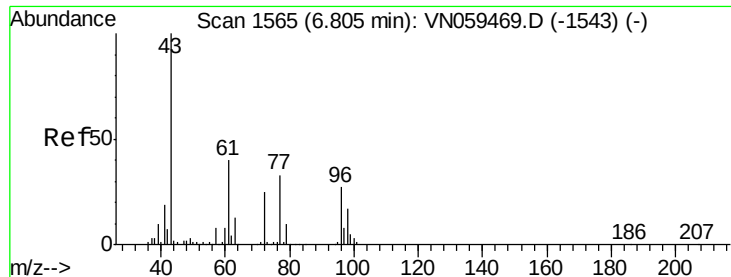
Ion Ratio Lower Upper

63 100

98 7.9 3.2 9.6

100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 6.555 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 16361

Ion Ratio Lower Upper

43 100

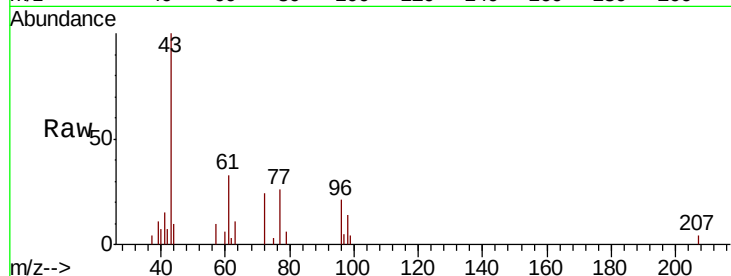
72 23.9 20.2 30.2

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.82

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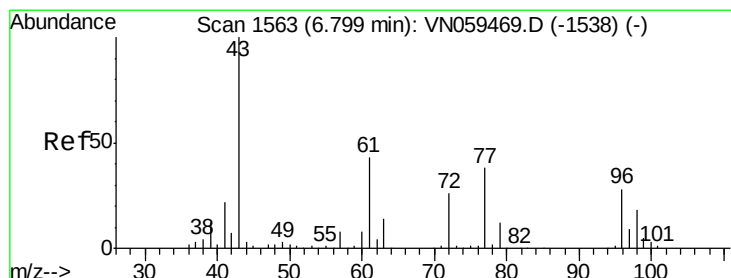
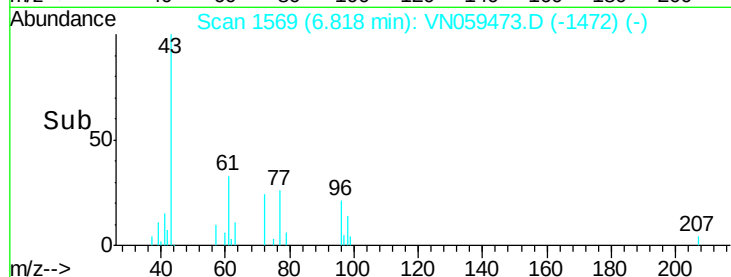
6.82

6.82

6.82

6.82

6.82



#26

2,2-Dichloropropane

Concen: 1.145 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN059473.D

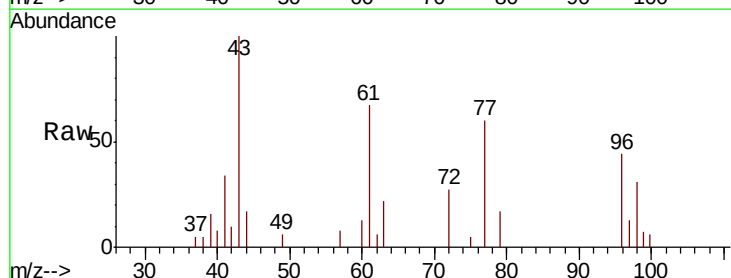
Acq: 3 Dec 2019 16:13

Tgt Ion: 77 Resp: 6144

Ion Ratio Lower Upper

77 100

97 18.3 11.4 34.1



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.80

6.80

6.80

6.80

6.80

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6.80

6.80

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6.80

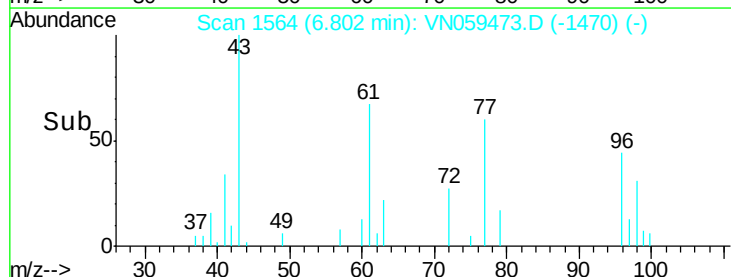
6.80

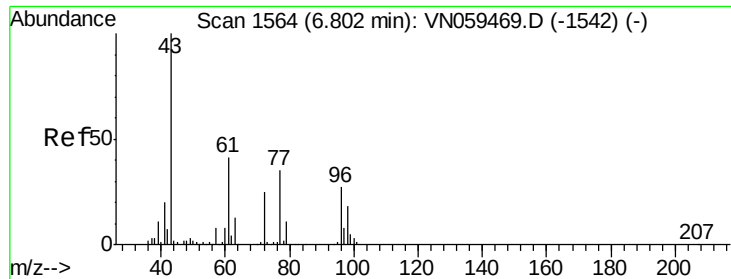
6.80

6.80

6.80

6.80





#27

cis-1,2-Dichloroethene

Concen: 1.132 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

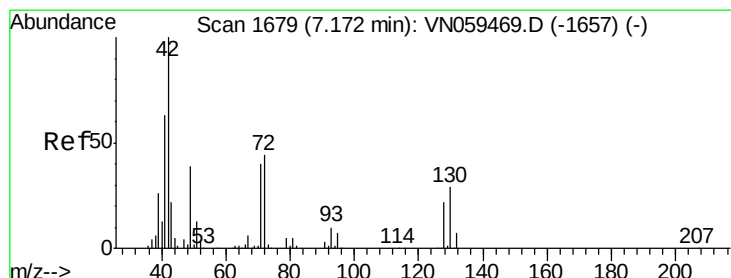
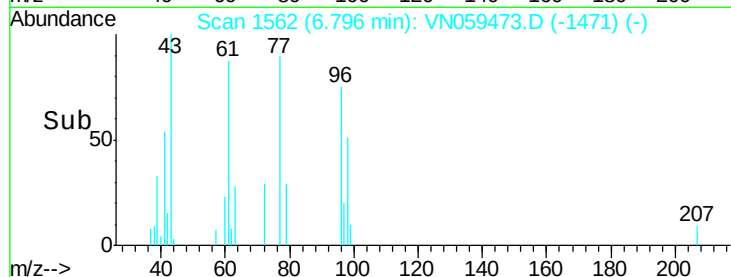
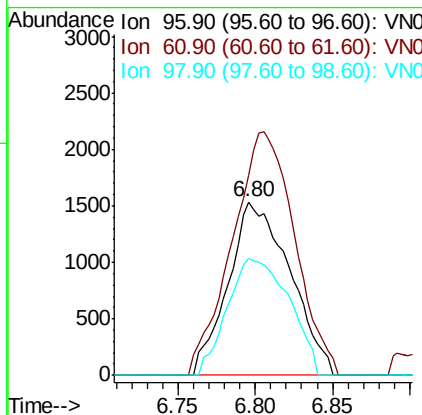
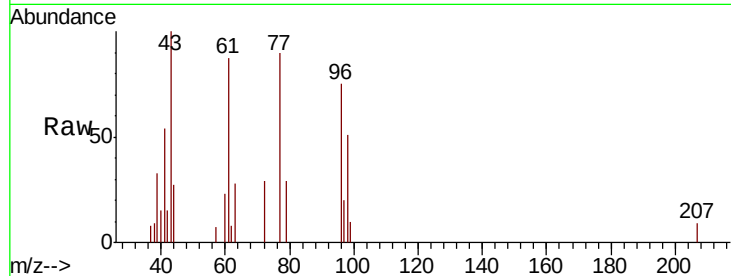
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 4264  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 142.0 | 0.0   | 307.4 |
| 98       | 67.1  | 0.0   | 129.2 |

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#28

Bromochloromethane

Concen: 0.522 ug/l

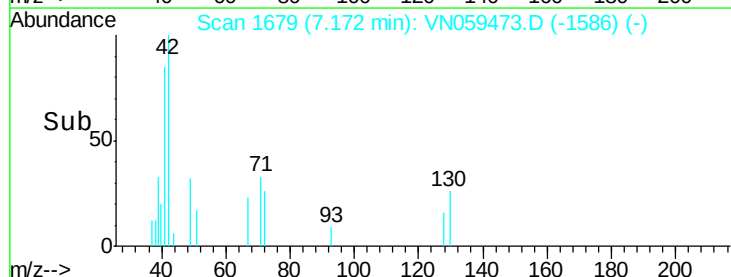
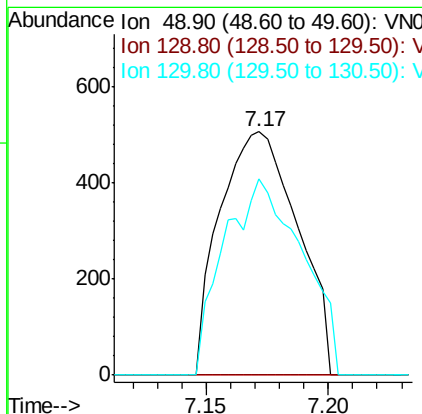
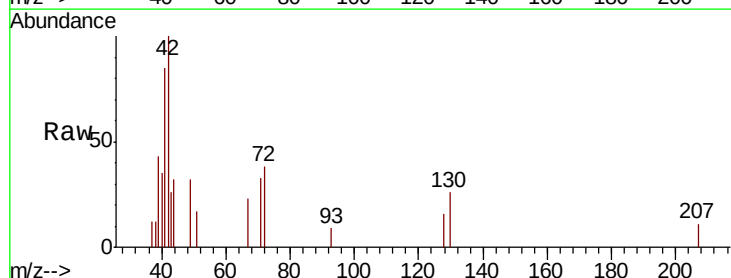
RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

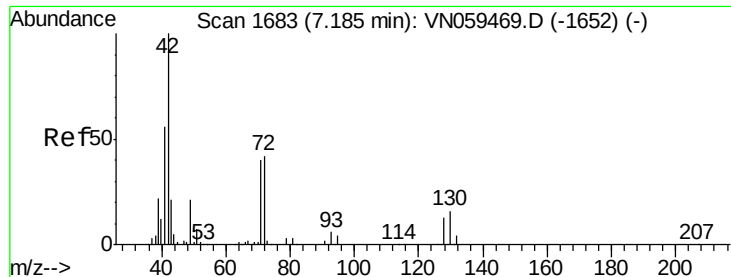
Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 1121  |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 0.0   | 0.0   | 3.2   |
| 130      | 81.0  | 58.4  | 87.6  |







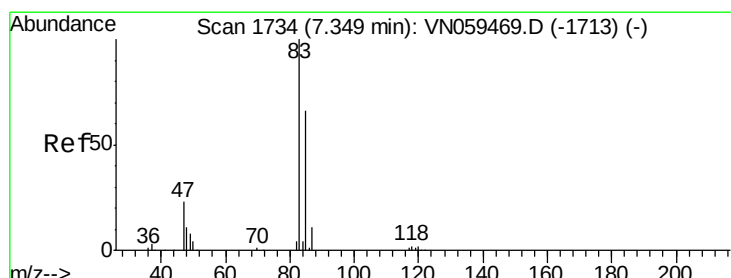
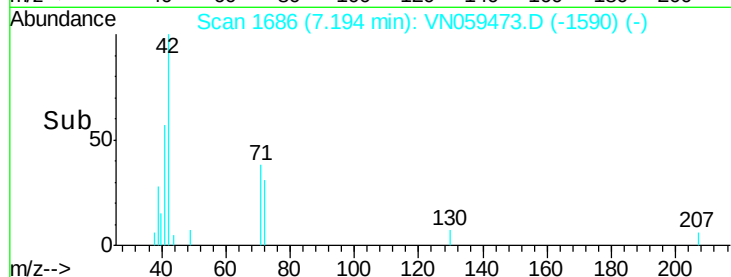
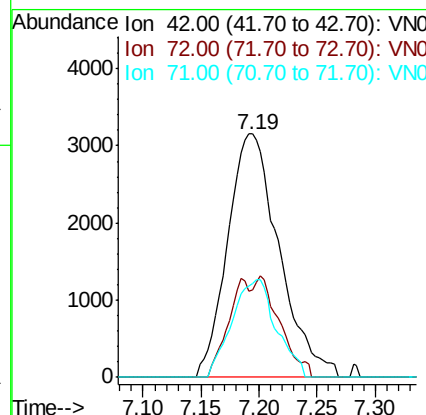
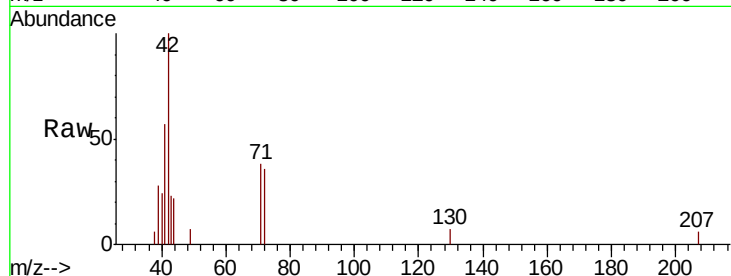
#29  
Tetrahydrofuran  
Concen: 5.853 ug/l  
RT: 7.19 min Scan# 1686  
Delta R.T. 0.01 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 16.6  | 34.2  | 51.2# |
| 71      | 34.5  | 32.0  | 48.0  |

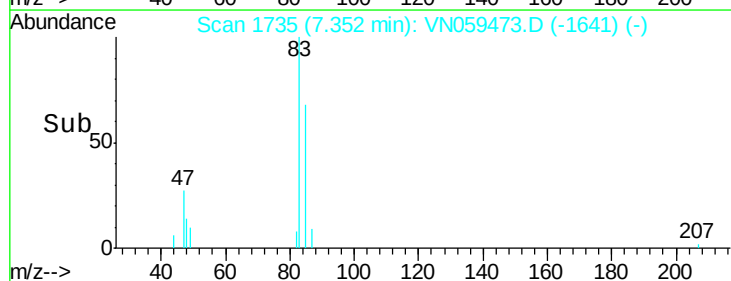
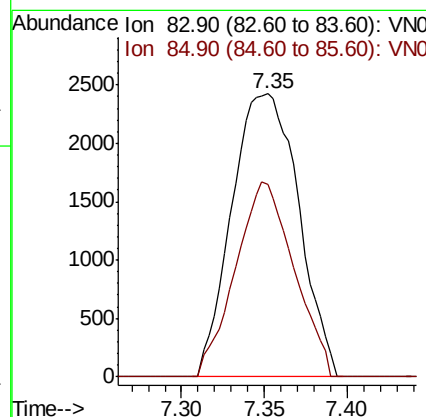
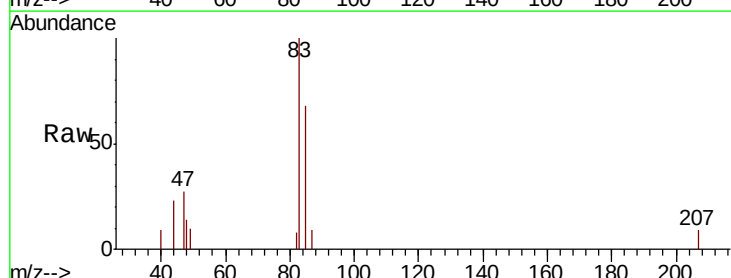
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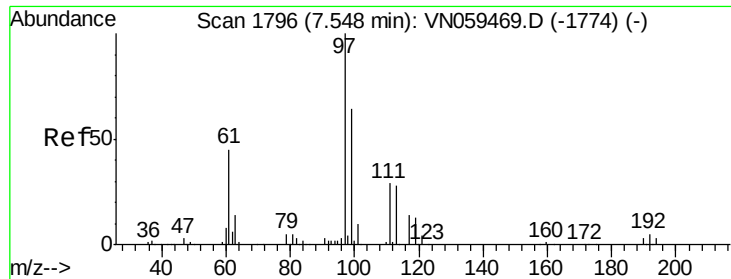
apatel  
12/4/2019 9:22:19 AM



#30  
Chloroform  
Concen: 1.071 ug/l  
RT: 7.35 min Scan# 1735  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 68.1  | 52.4  | 78.6  |





#32

1,1,1-Trichloroethane

Concen: 1.189 ug/l

RT: 7.54 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

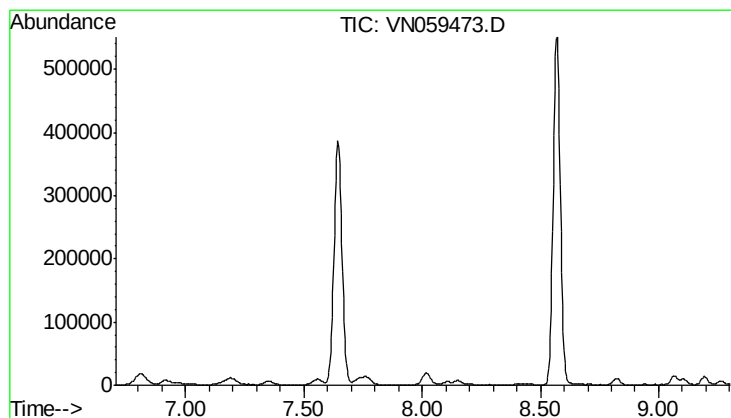
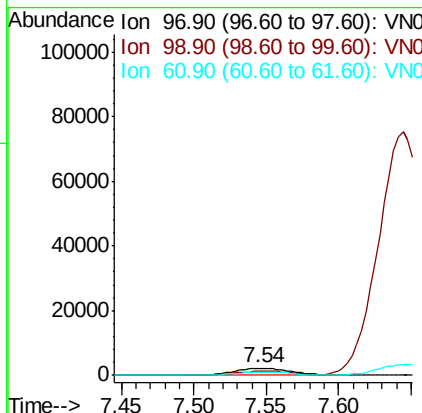
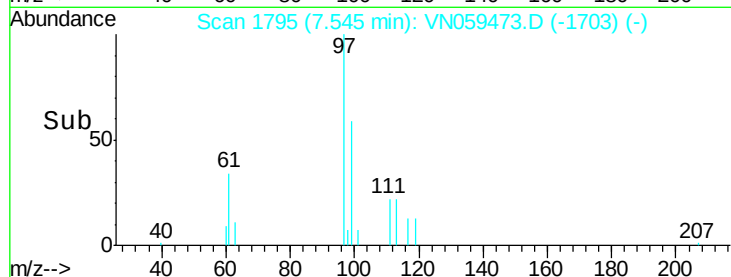
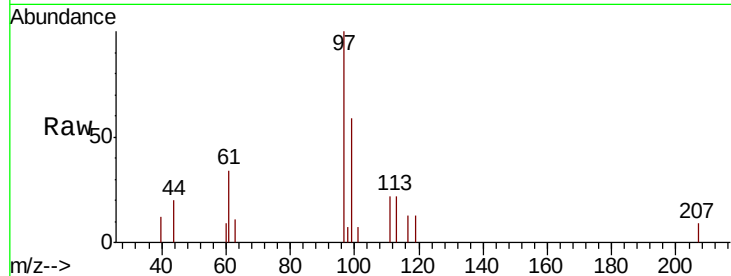
ClientSampleId :

VSTDIC001

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 97    | Resp: | 6161  |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 0.0   | 51.7  | 77.5# |
| 61        | 39.3  | 35.4  | 53.0  |

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#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.00 min

Lab File: VN059473.D

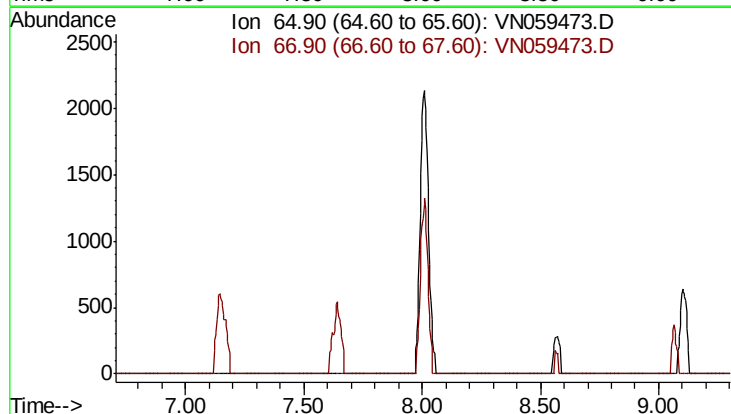
Acq: 3 Dec 2019 16:13

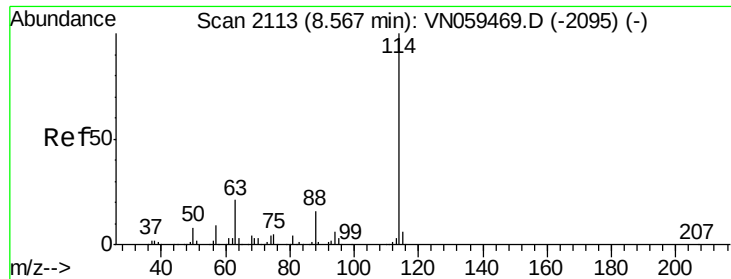
Tgt Ion: 65

Sig Exp Ratio

65 100

67 53.7





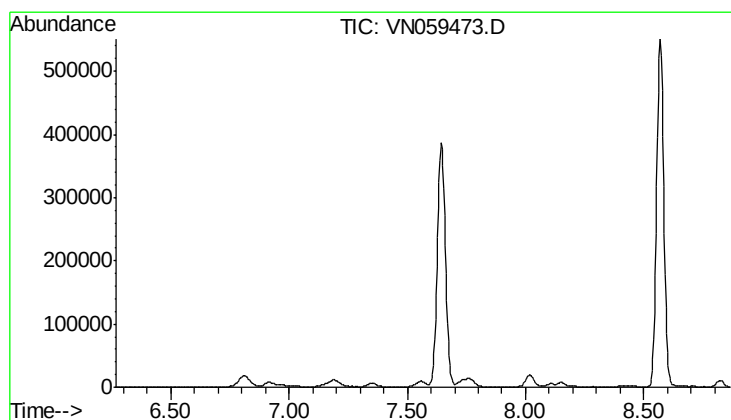
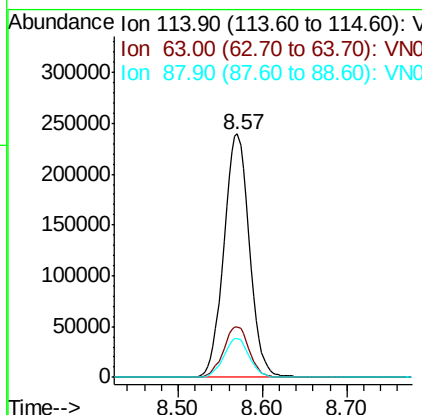
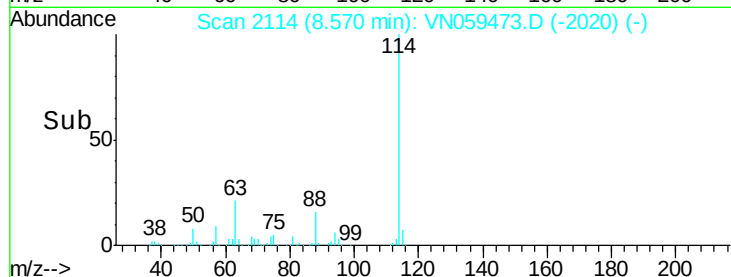
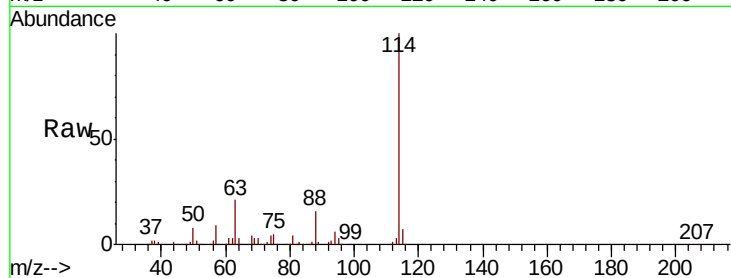
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 114     | 100   |            |            |
| 63      | 20.9  | 0.0        | 42.4       |
| 88      | 16.2  | 0.0        | 32.8       |

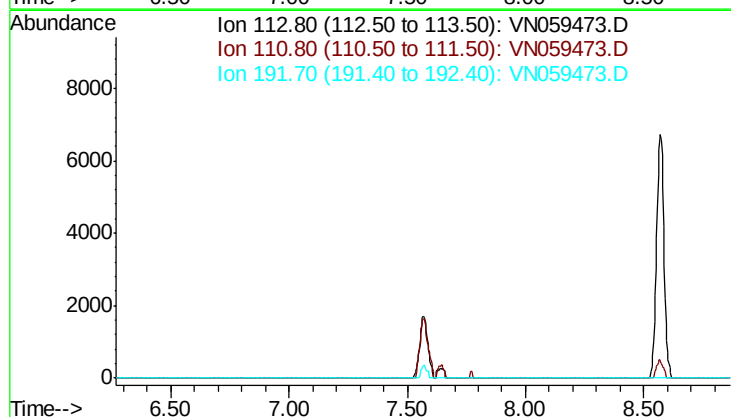
Manual Integrations  
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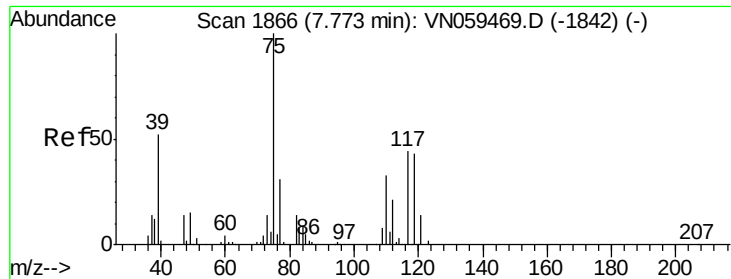
apatel  
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#35  
 Dibromofluoromethane  
 Concen: 0.000 ug/l  
 Expected RT: 7.57 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

| Tgt Ion | Exp Ratio |
|---------|-----------|
| 113     | 100       |
| 111     | 103.1     |
| 192     | 20.1      |





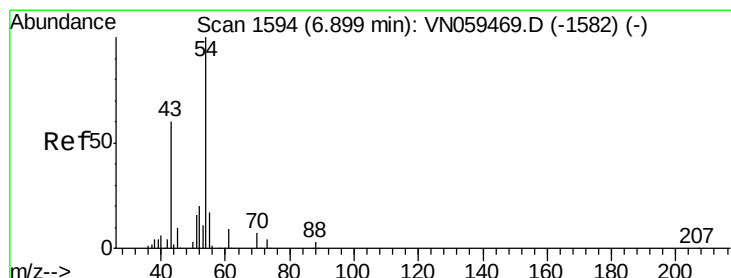
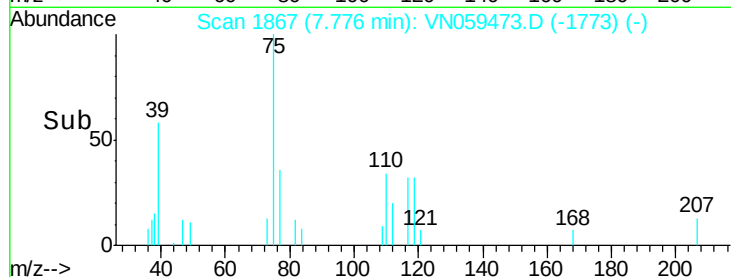
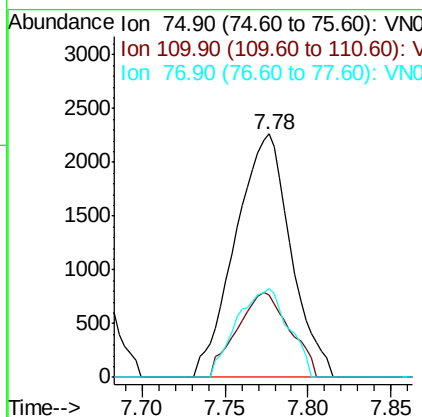
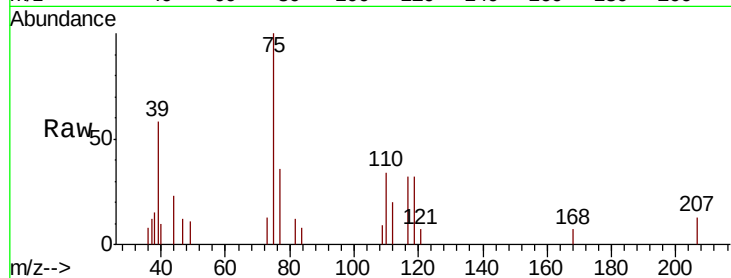
#36  
 1,1-Dichloropropene  
 Concen: 1.077 ug/l  
 RT: 7.78 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 33.1  | 16.9  | 50.7  |
| 77      | 33.9  | 25.1  | 37.7  |

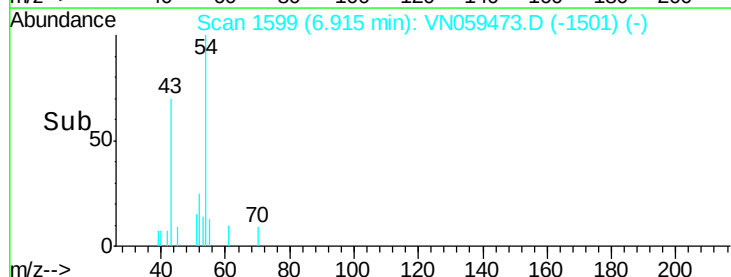
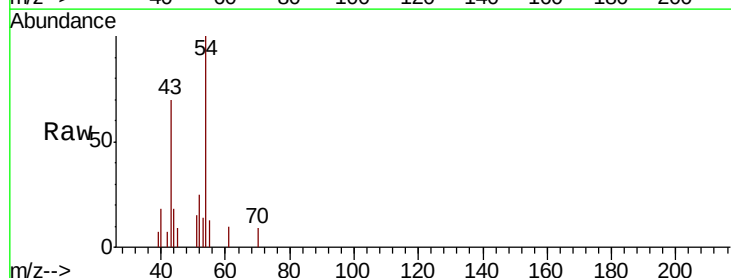
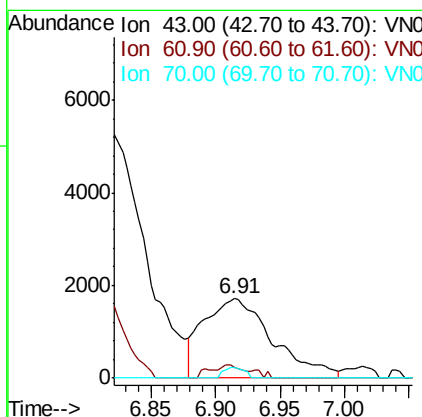
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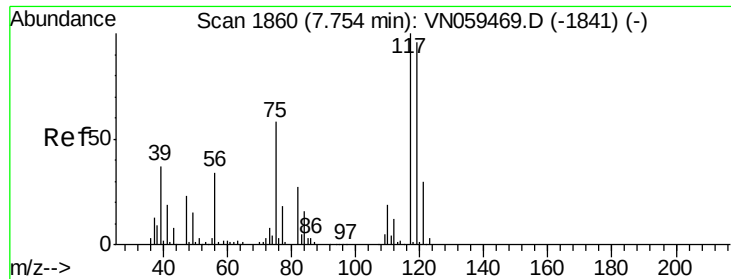
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#37  
 Ethyl Acetate  
 Concen: 1.211 ug/l  
 RT: 6.91 min Scan# 1599  
 Delta R.T. 0.02 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 7.2   | 11.3  | 16.9# |
| 70      | 4.0   | 8.3   | 12.5# |





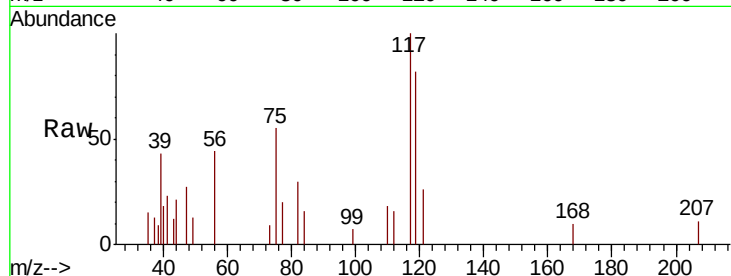
#38  
Carbon Tetrachloride  
Concen: 1.070 ug/l  
RT: 7.75 min Scan# 1860  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 82.1  | 76.6  | 114.8 |
| 121     | 26.0  | 24.0  | 36.0  |

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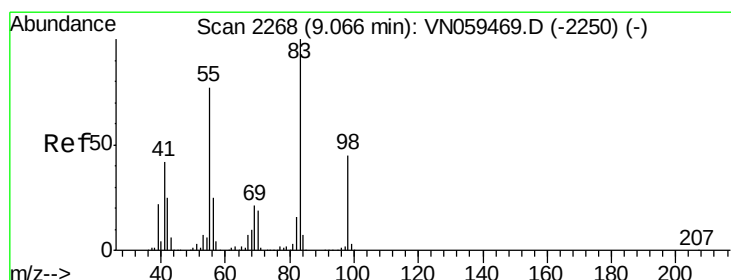
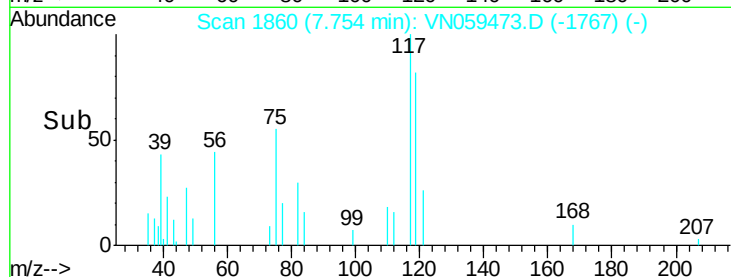
Abundance

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

Time-->



#39  
Methylcyclohexane  
Concen: 1.020 ug/l  
RT: 9.07 min Scan# 2268  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 74.1  | 61.8  | 92.6  |
| 98      | 50.3  | 36.2  | 54.2  |

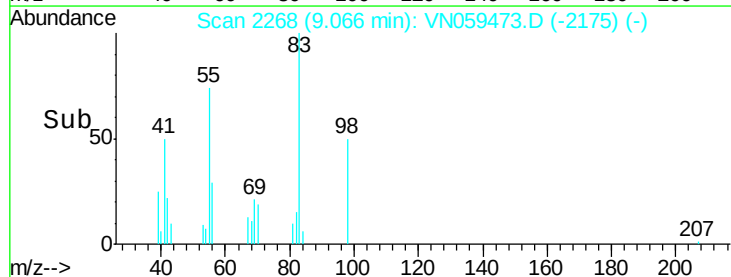
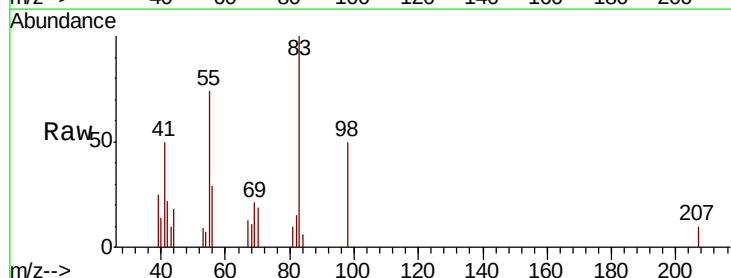
Abundance

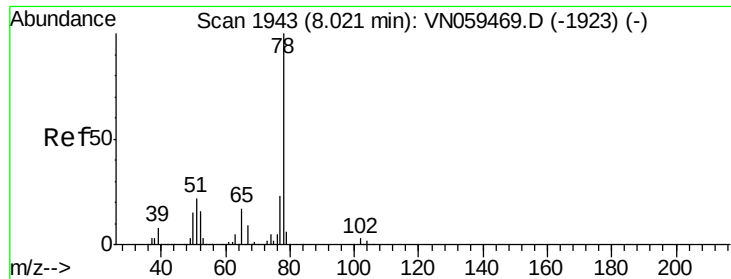
Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

Time-->





#40

Benzene

Concen: 1.011 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion: 78 Resp: 14713

Ion Ratio Lower Upper

78 100

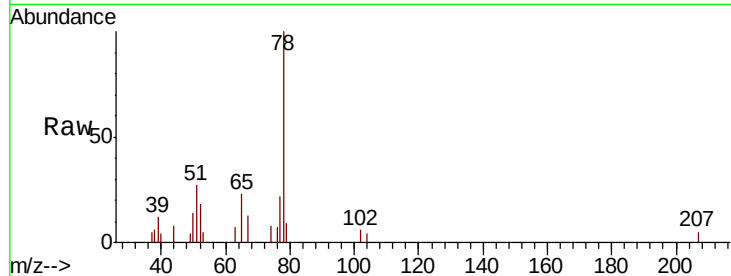
77 22.5 18.2 27.2

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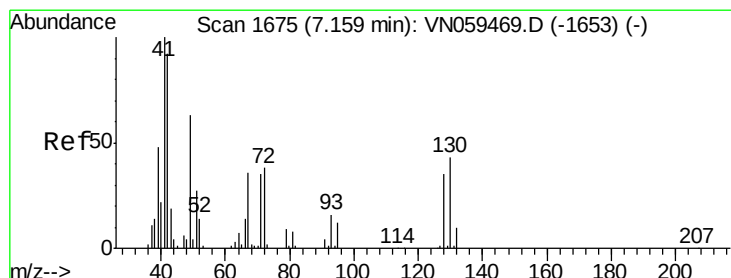
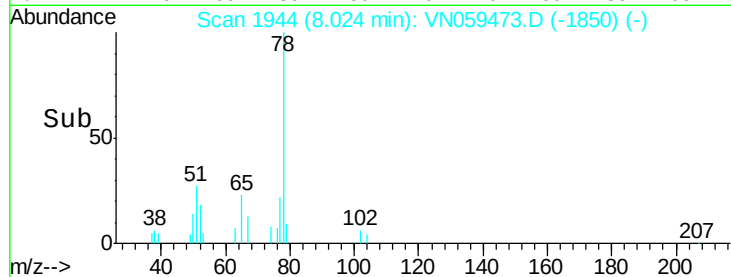
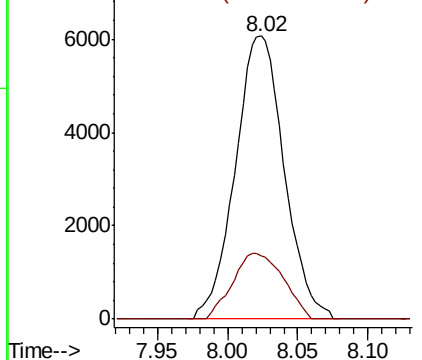
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Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#41

Methacrylonitrile

Concen: 0.969 ug/l m

RT: 7.17 min Scan# 1677

Delta R.T. 0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Tgt Ion: 41 Resp: 2375

Ion Ratio Lower Upper

41 100

39 12.9 0.0 0.0#

67 0.0 0.0 0.0

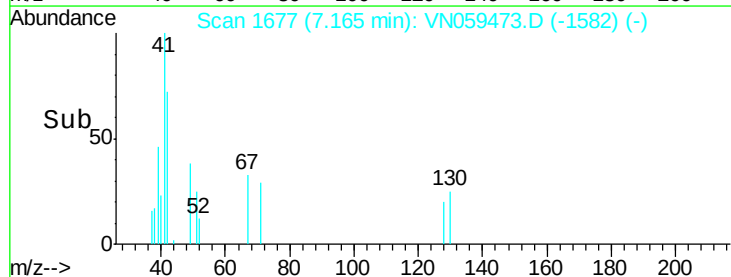
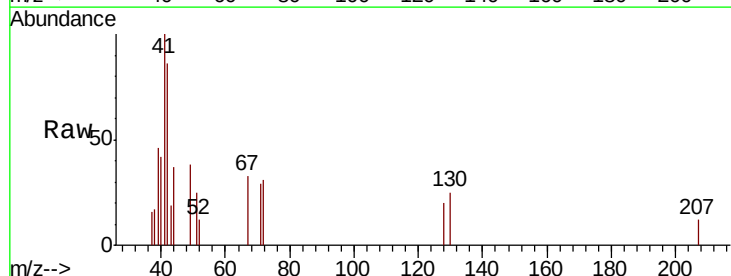
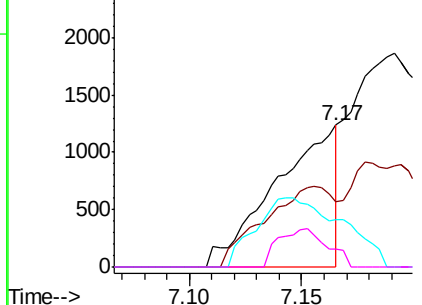
52 0.0 0.0 0.0

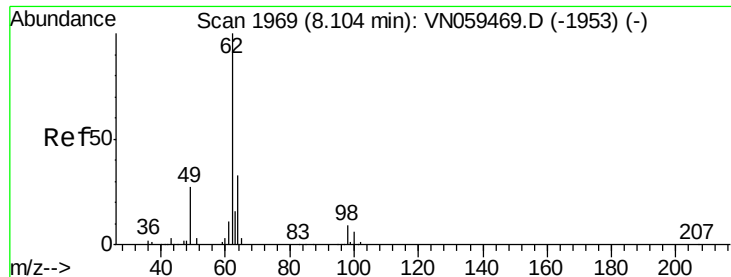
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#42

1,2-Dichloroethane

Concen: 1.095 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

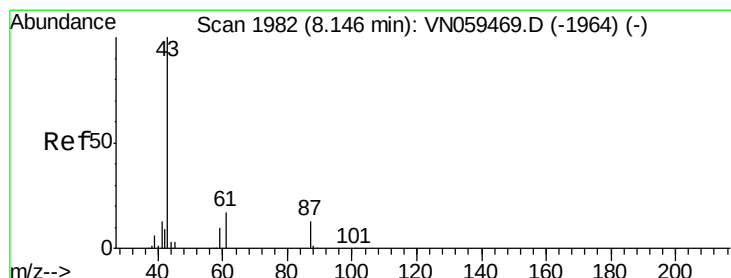
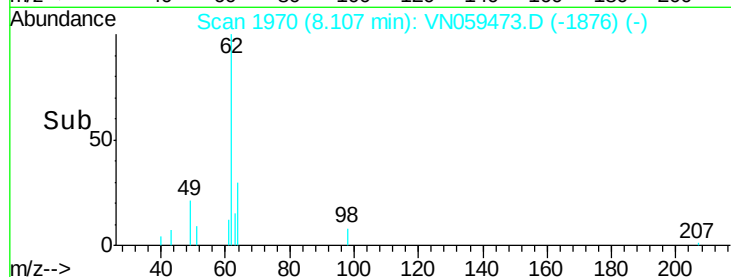
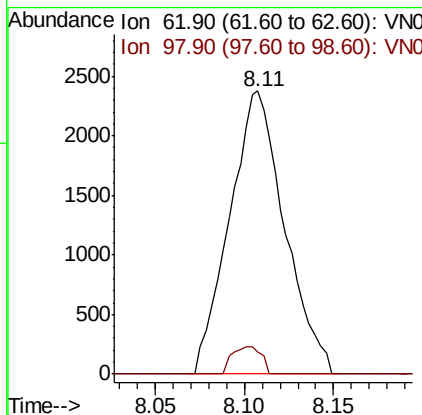
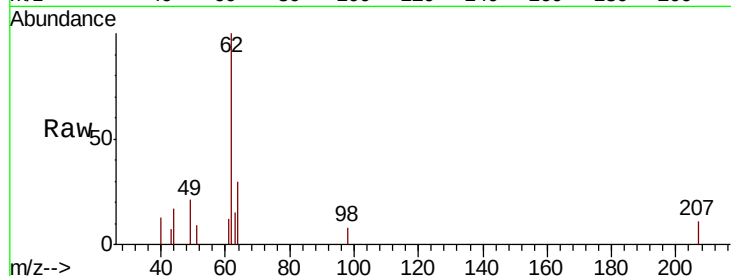
ClientSampled :

VSTDIC001

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 62      | 100   | 5092 |       |       |
| 98      | 5.1   | 0.0  | 17.8  |       |

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#43

Isopropyl Acetate

Concen: 0.953 ug/l

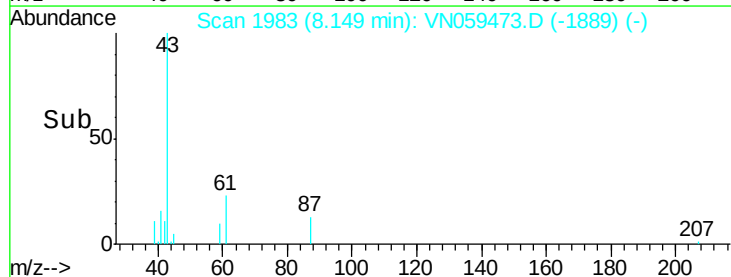
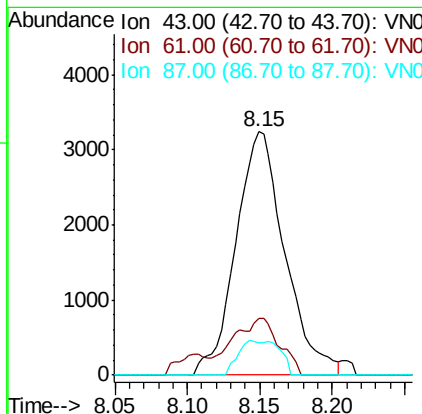
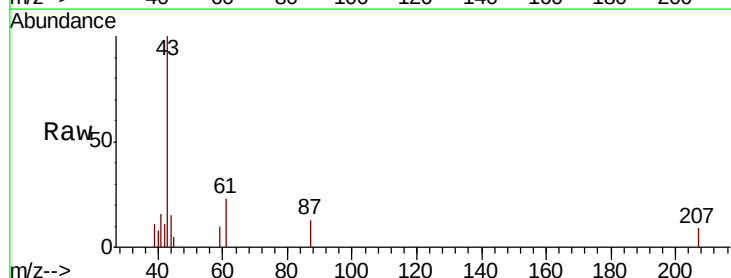
RT: 8.15 min Scan# 1983

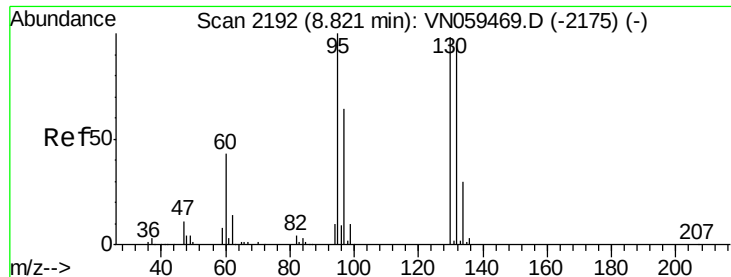
Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   | 7611 |       |       |
| 61      | 22.1  | 21.0 | 31.6  |       |
| 87      | 6.2   | 10.4 | 15.6# |       |





#44

Trichloroethene

Concen: 1.163 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion:130 Resp: 4309

Ion Ratio Lower Upper

130 100

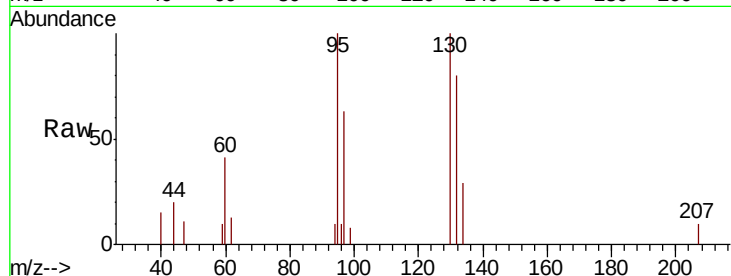
95 100.1 0.0 203.6

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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.82

2000

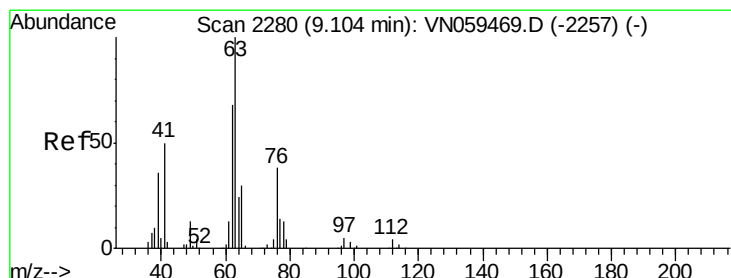
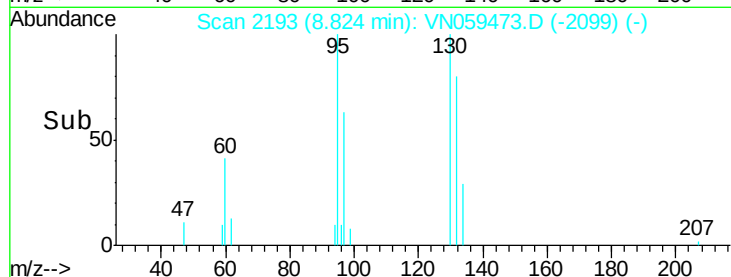
1500

1000

500

0

Time--> 8.75 8.80 8.85



#45

1,2-Dichloropropane

Concen: 1.006 ug/l

RT: 9.10 min Scan# 2279

Delta R.T. -0.00 min

Lab File: VN059473.D

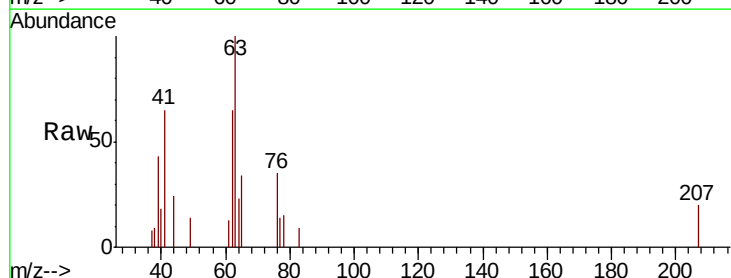
Acq: 3 Dec 2019 16:13

Tgt Ion: 63 Resp: 3833

Ion Ratio Lower Upper

63 100

65 34.4 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.10

2000

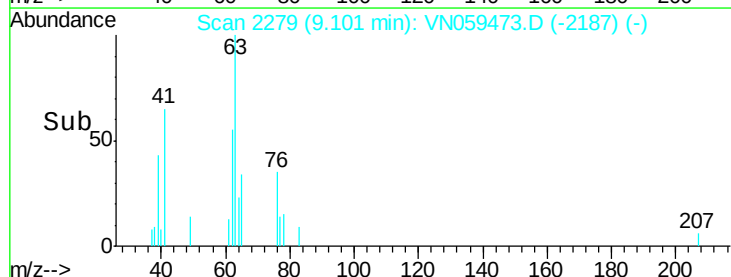
1500

1000

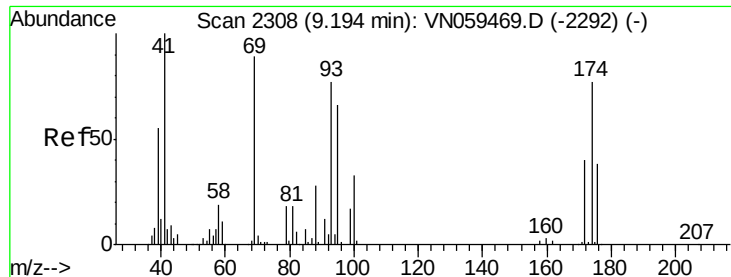
500

0

Time--> 9.05 9.10 9.15







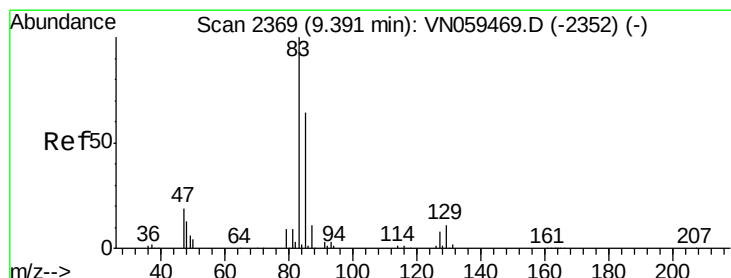
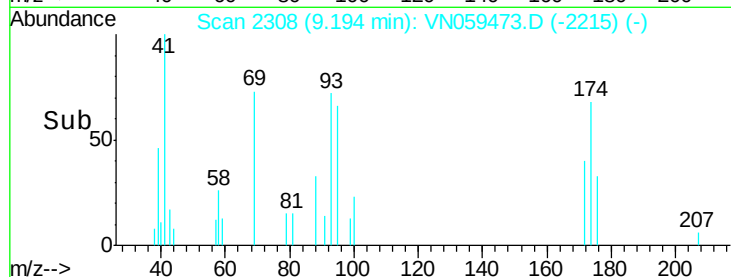
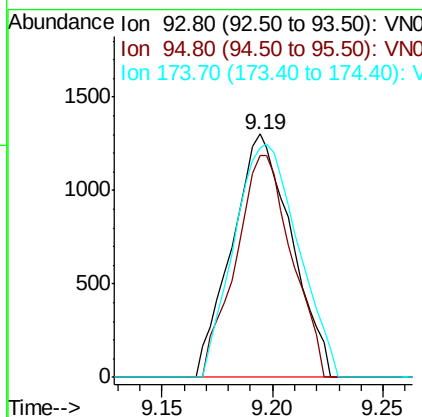
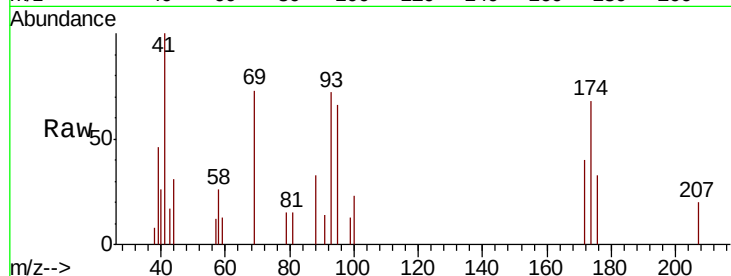
#46  
Dibromomethane  
Concen: 1.037 ug/l  
RT: 9.19 min Scan# 2308  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

Tot Ion: 93 Resp: 2442  
Ion Ratio Lower Upper  
93 100  
95 85.5 67.0 100.6  
174 103.2 79.6 119.4

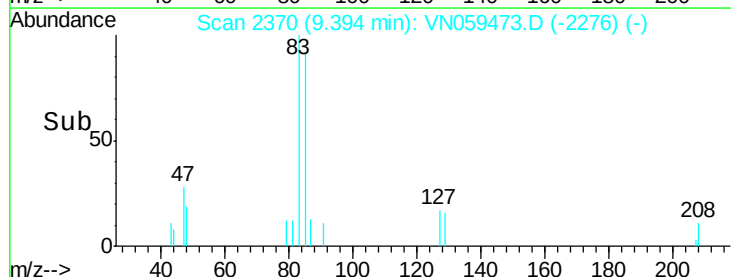
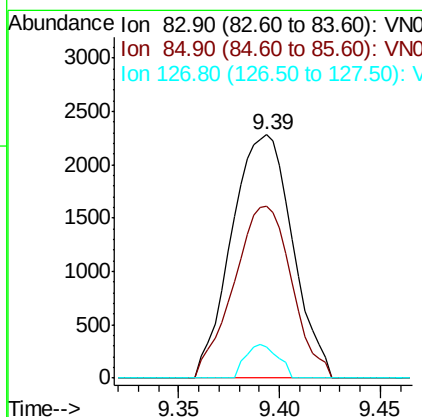
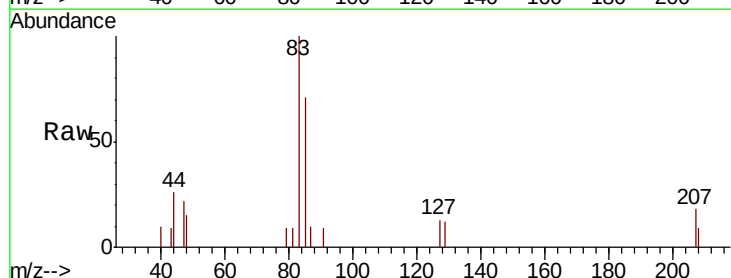
Manual Integrations  
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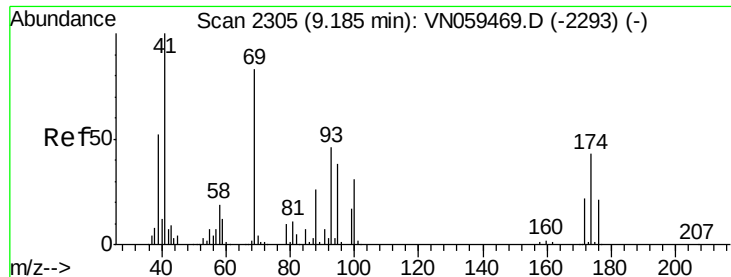
apatel  
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#47  
Bromodichloromethane  
Concen: 1.007 ug/l  
RT: 9.39 min Scan# 2370  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Tgt Ion: 83 Resp: 4795  
Ion Ratio Lower Upper  
83 100  
85 70.5 51.0 76.6  
127 12.8 6.6 9.8#





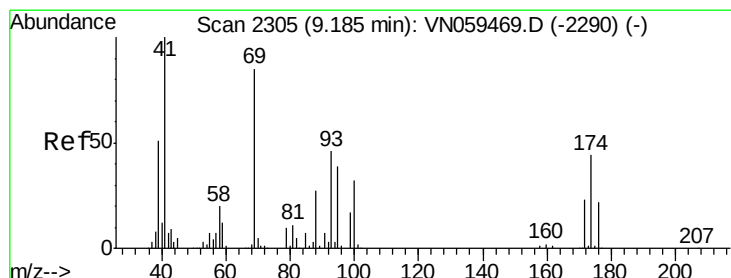
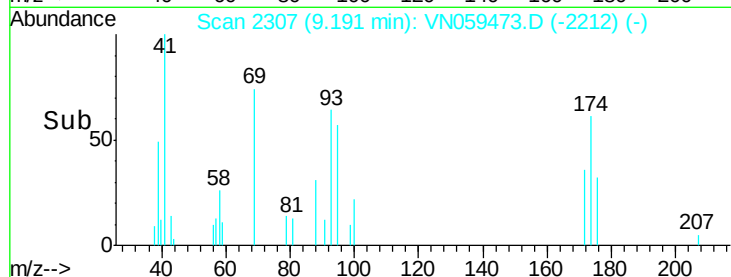
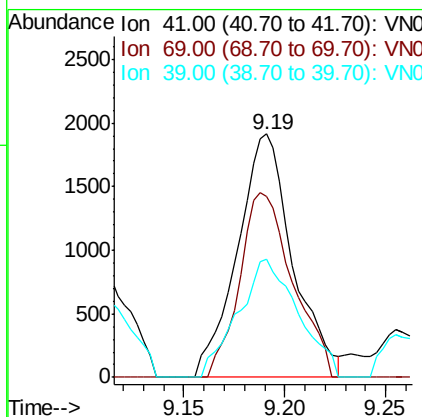
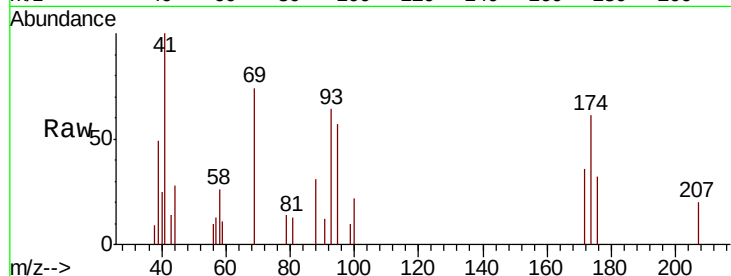
#48  
Methvl methacrylate  
Concen: 1.033 ug/l  
RT: 9.19 min Scan# 2307  
Delta R.T. 0.01 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 72.8  | 68.6  | 103.0 |
| 39      | 52.7  | 43.2  | 64.8  |

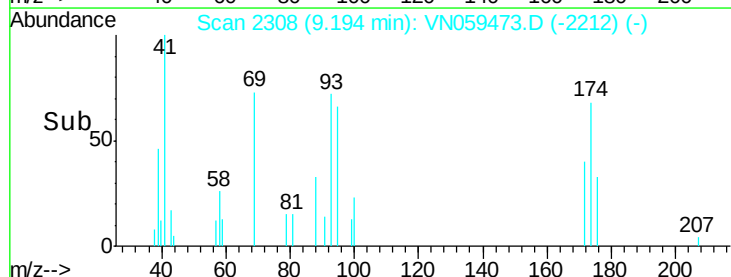
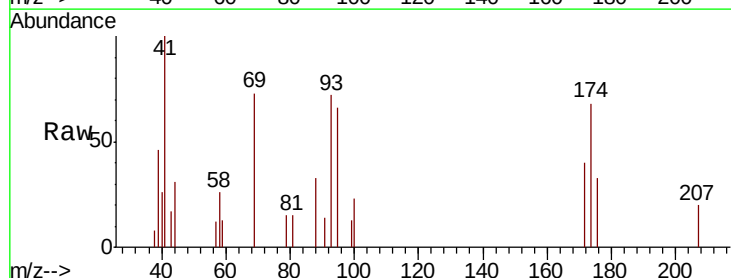
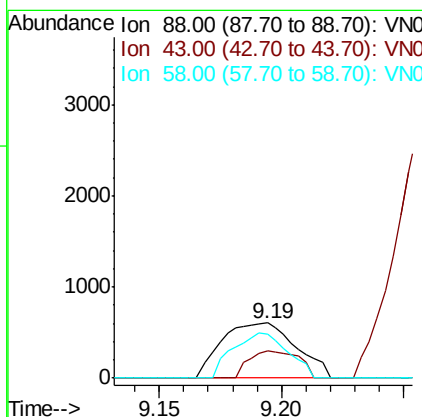
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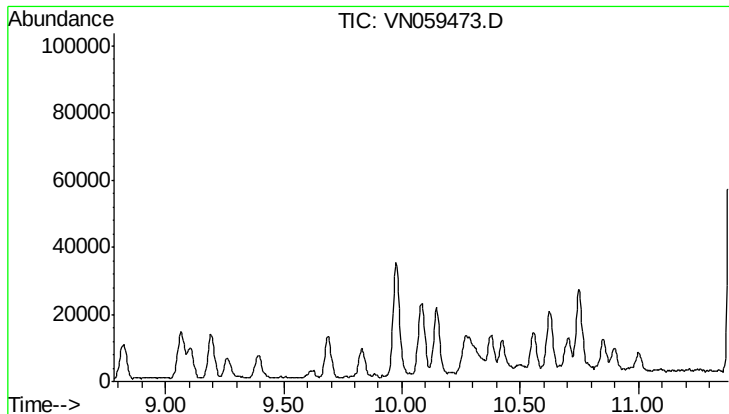
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#49  
1,4-Dioxane  
Concen: 25.373 ug/l  
RT: 9.19 min Scan# 2308  
Delta R.T. 0.01 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 33.2  | 27.1  | 40.7  |
| 58      | 60.6  | 57.8  | 86.6  |





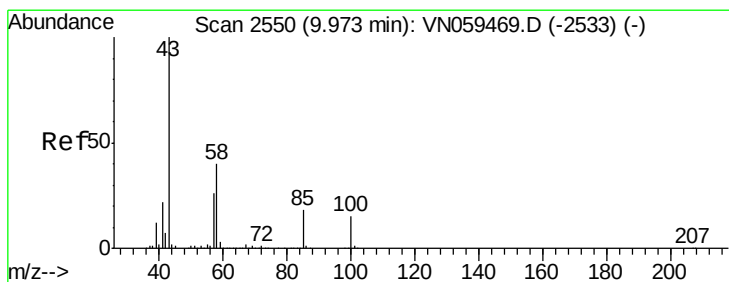
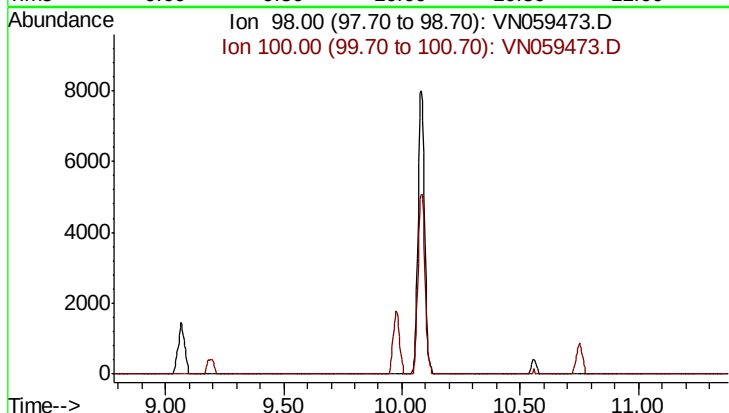
#50  
Toluene-d8  
Concen: 0.000 ug/l  
Expected RT: 10.08 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

Tot Ion: 98  
Sig Exp Ratio  
98 100  
100 65.1

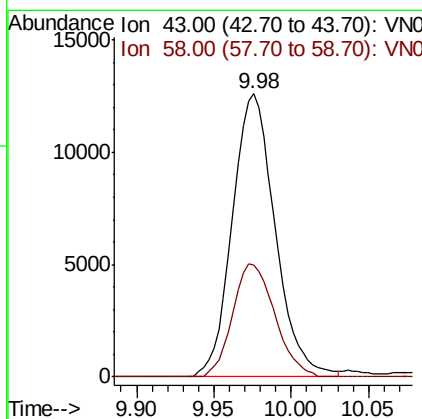
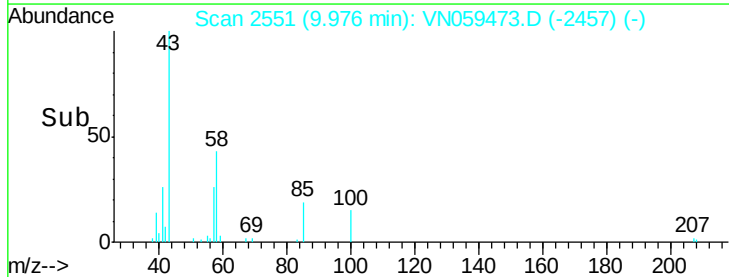
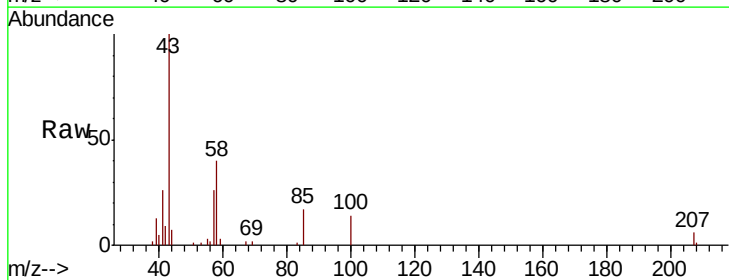
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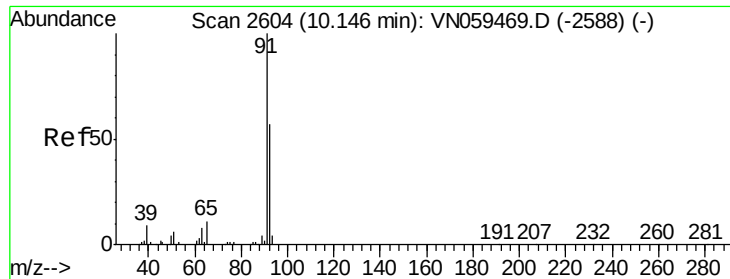
apatel  
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#51  
4-Methyl-2-Pentanone  
Concen: 5.197 ug/l  
RT: 9.98 min Scan# 2551  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Tgt Ion: 43 Resp: 24246  
Ion Ratio Lower Upper  
43 100  
58 39.1 32.1 48.1





#52

Toluene

Concen: 1.012 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion: 92 Resp: 8813

Ion Ratio Lower Upper

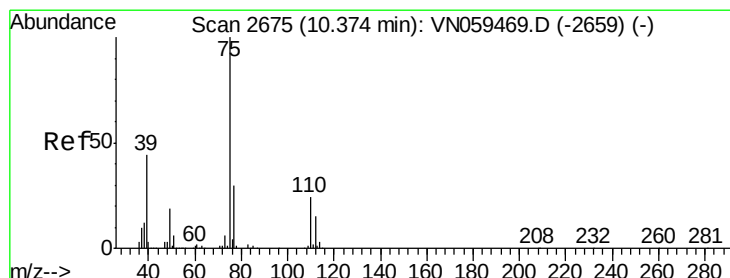
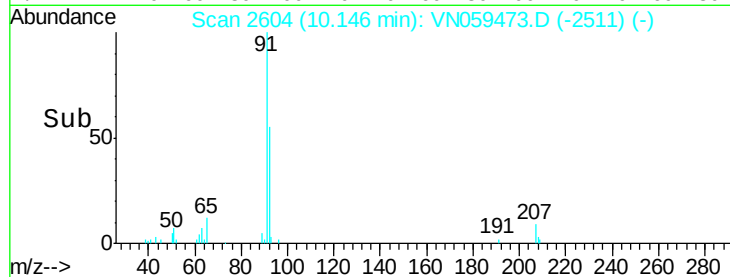
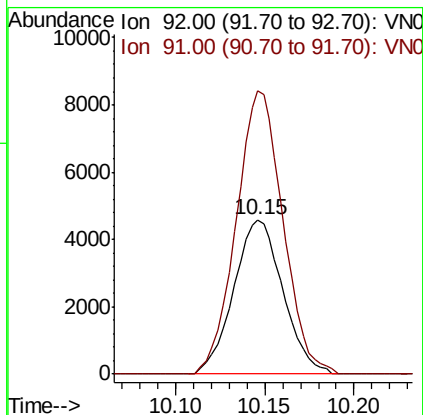
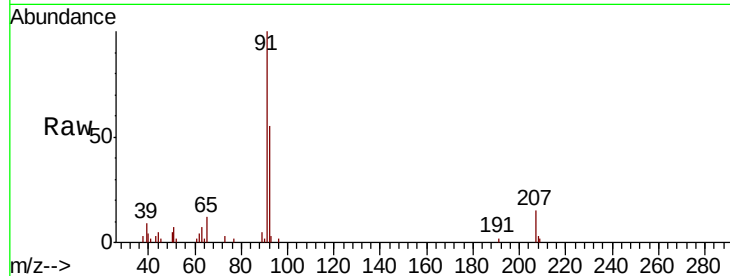
92 100

91 174.6 138.6 208.0

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#53

t-1,3-Dichloropropene

Concen: 1.088 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN059473.D

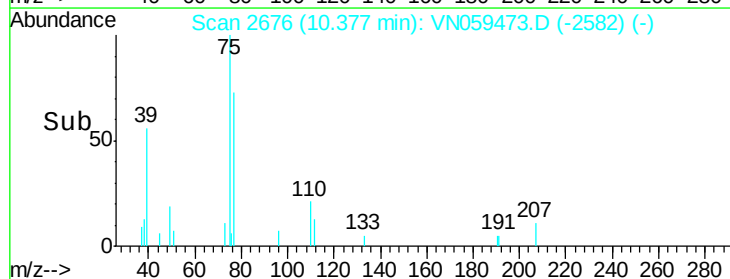
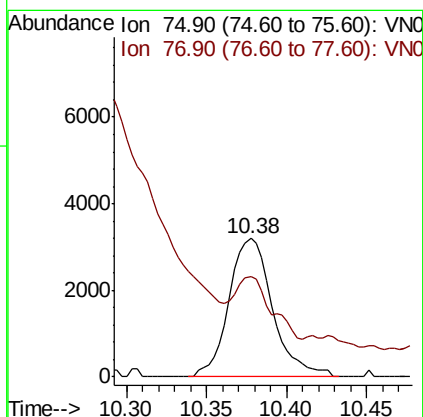
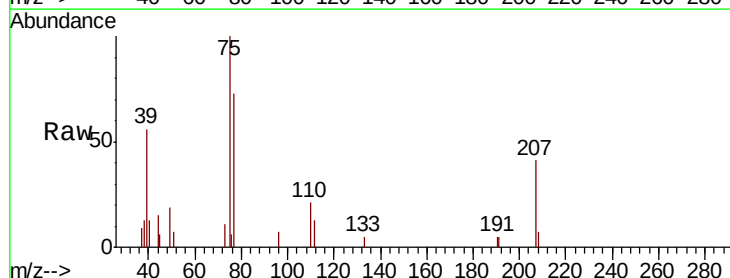
Acq: 3 Dec 2019 16:13

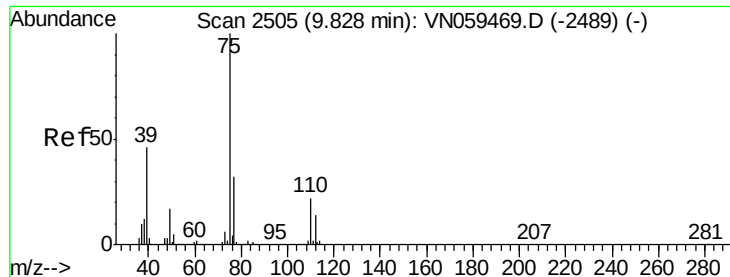
Tgt Ion: 75 Resp: 5961

Ion Ratio Lower Upper

75 100

77 46.3 25.0 37.6#





#54

cis-1,3-Dichloropropene

Concen: 0.984 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

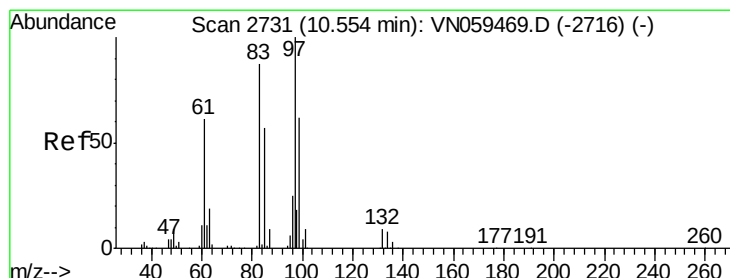
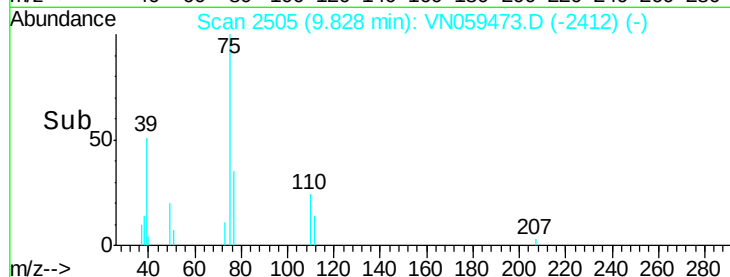
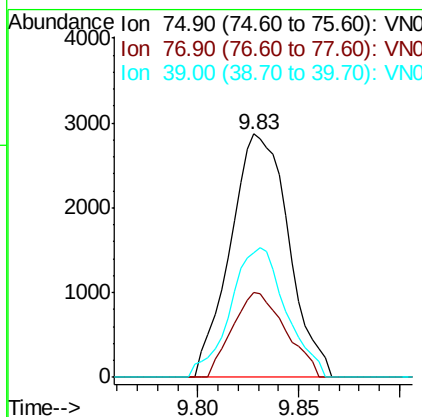
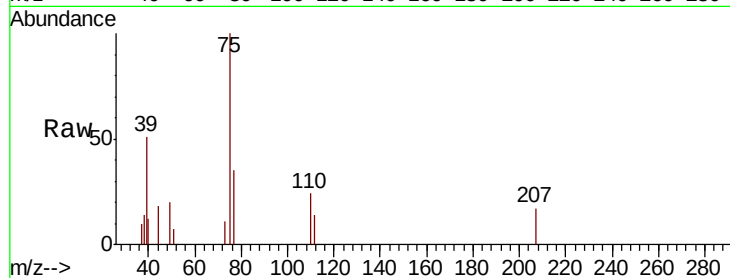
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 5797  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 35.1  | 25.7  | 38.5  |
| 39       | 51.2  | 36.6  | 54.8  |

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#55

1,1,2-Trichloroethane

Concen: 1.012 ug/l

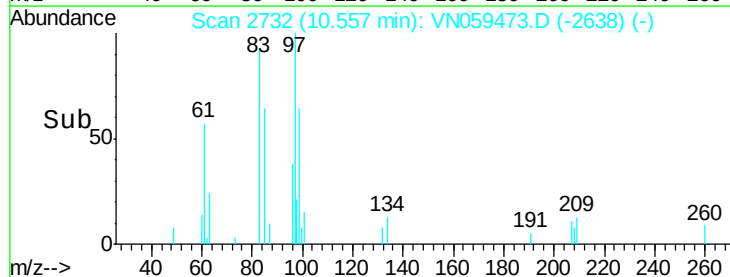
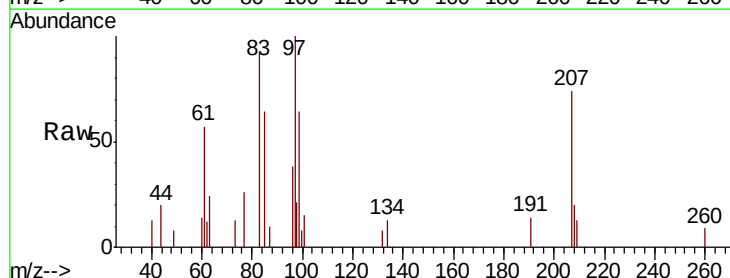
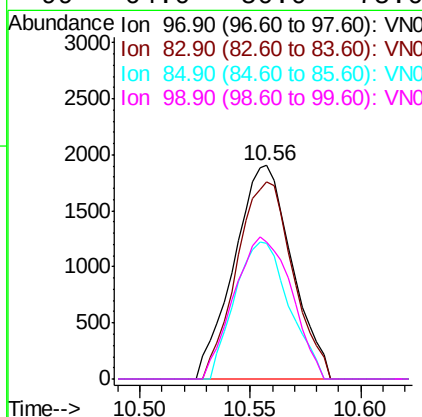
RT: 10.56 min Scan# 2732

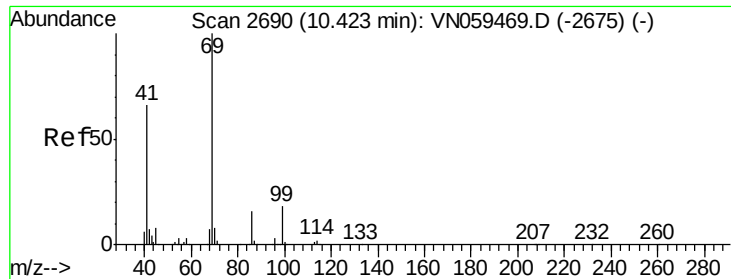
Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 3462  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 92.3  | 69.8  | 104.8 |
| 85       | 63.7  | 45.5  | 68.3  |
| 99       | 64.0  | 50.0  | 75.0  |





#56

Ethyl methacrylate

Concen: 0.786 ug/l

RT: 10.42 min Scan# 2690

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

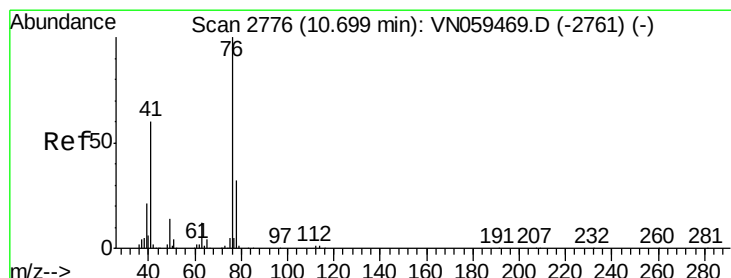
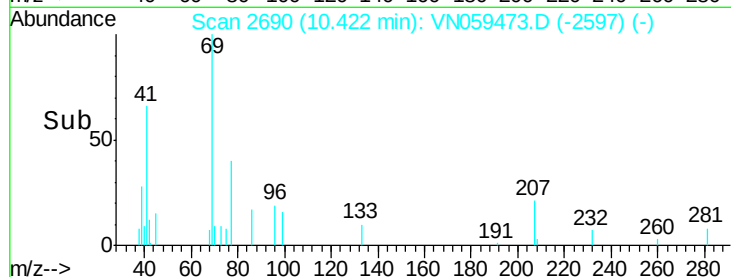
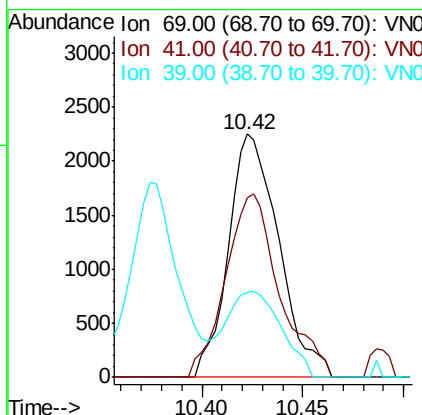
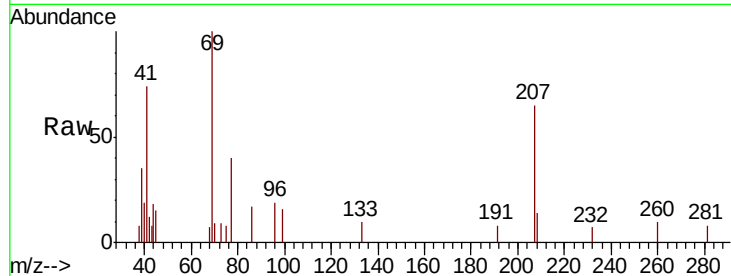
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 69    | Resp: | 3927  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 80.5  | 52.7  | 79.1# |
| 39       | 39.2  | 25.0  | 37.6# |

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#57

1,3-Dichloropropane

Concen: 1.024 ug/l

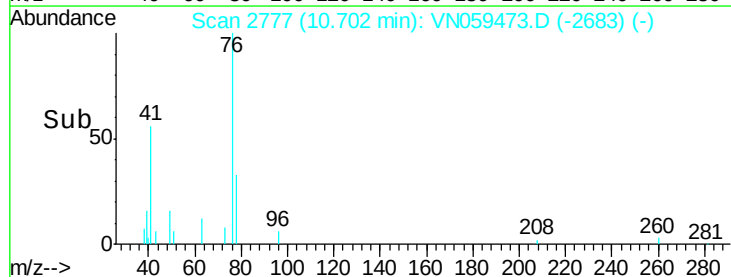
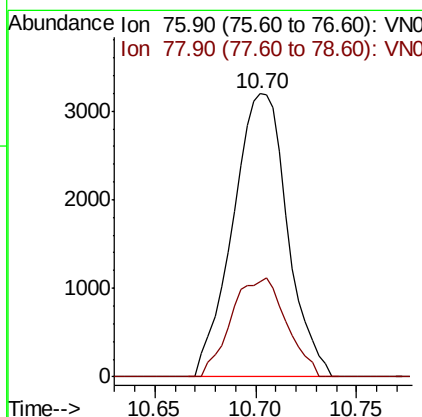
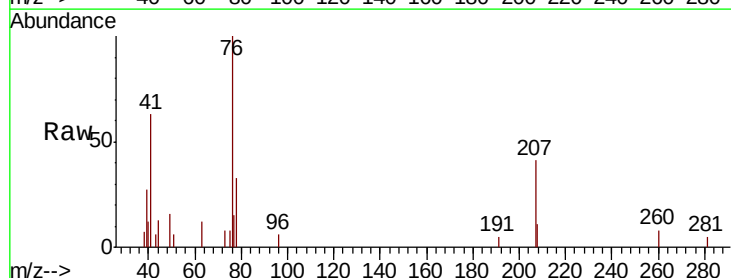
RT: 10.70 min Scan# 2777

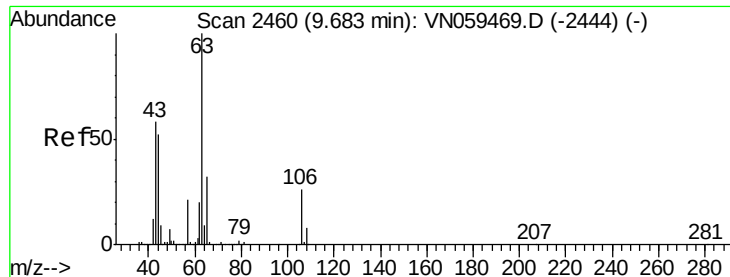
Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 76    | Resp: | 6036  |
| Ion      | Ratio | Lower | Upper |
| 76       | 100   |       |       |
| 78       | 35.1  | 25.8  | 38.8  |





#58

2-Chloroethyl Vinyl ether

Concen: 4.031 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion: 63 Resp: 5808

Ion Ratio Lower Upper

63 100

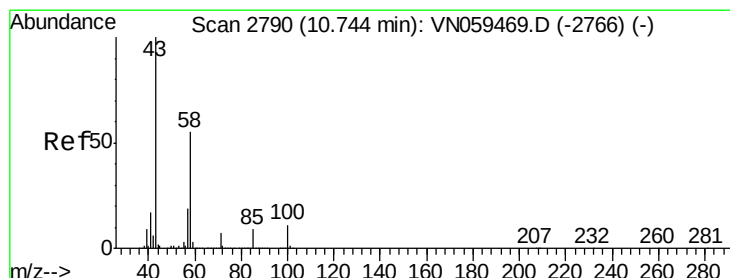
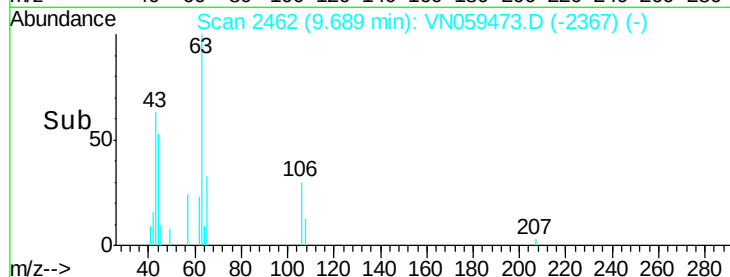
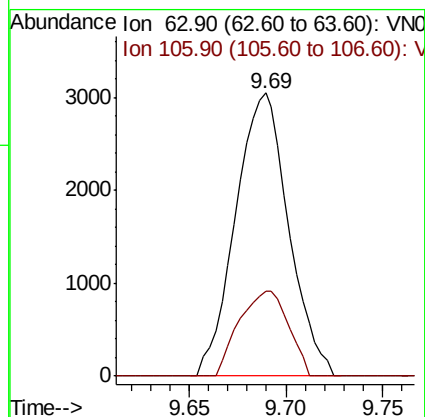
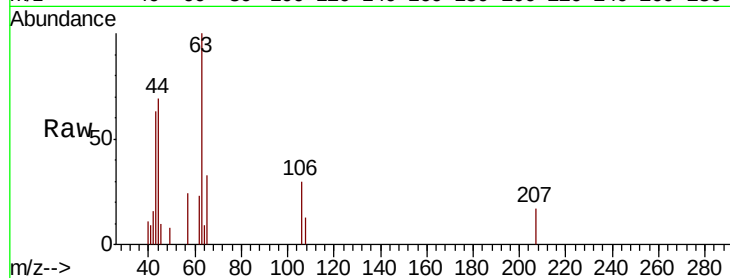
106 27.7 20.4 30.6

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#59

2-Hexanone

Concen: 5.086 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VN059473.D

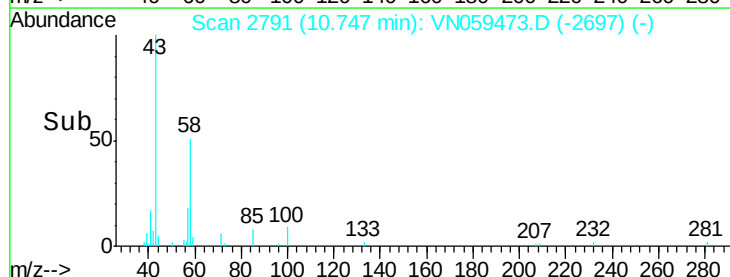
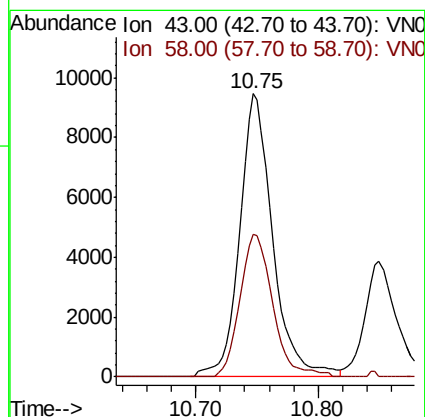
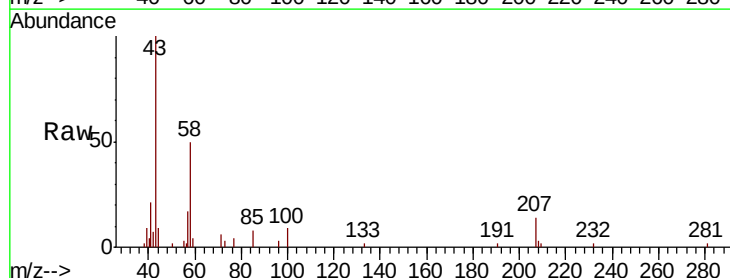
Acq: 3 Dec 2019 16:13

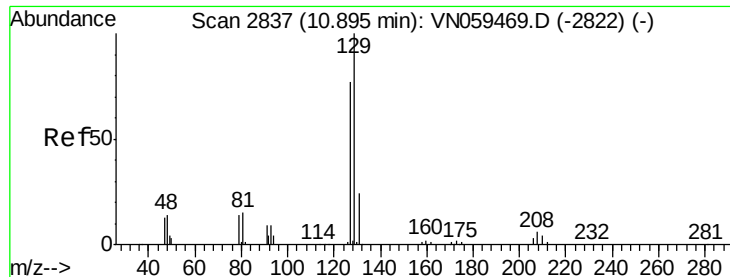
Tgt Ion: 43 Resp: 17638

Ion Ratio Lower Upper

43 100

58 50.1 27.7 83.0





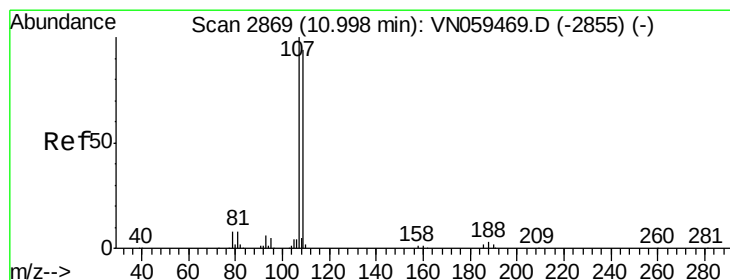
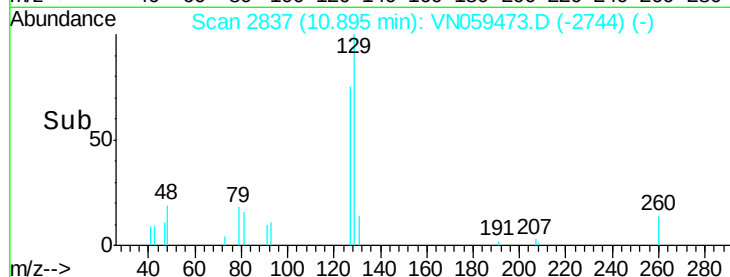
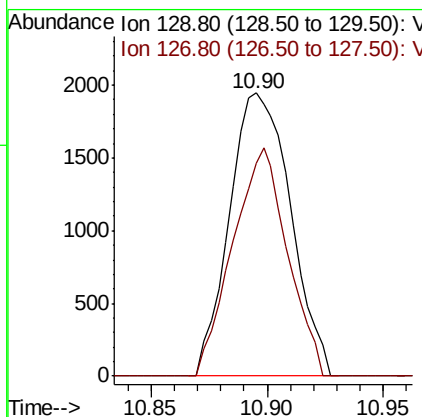
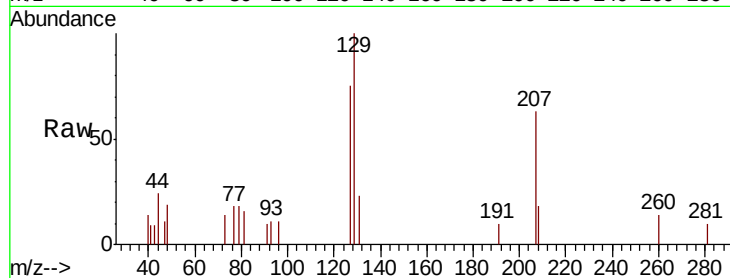
#60  
Dibromochloromethane  
Concen: 1.000 ug/l  
RT: 10.90 min Scan# 2837  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 72.5  | 39.0  | 116.9 |

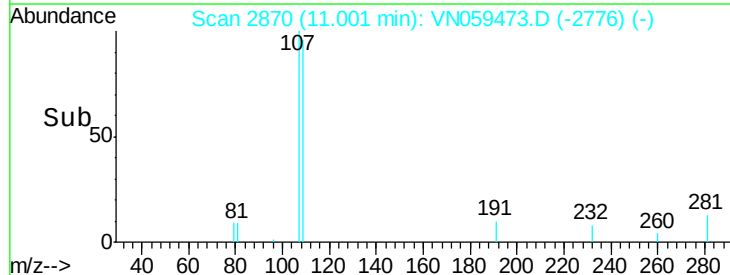
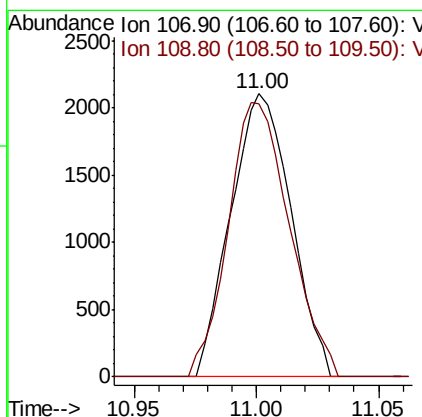
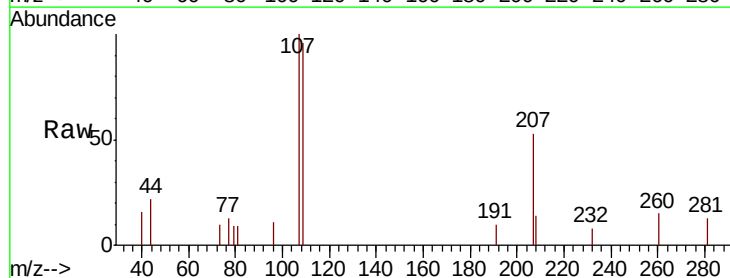
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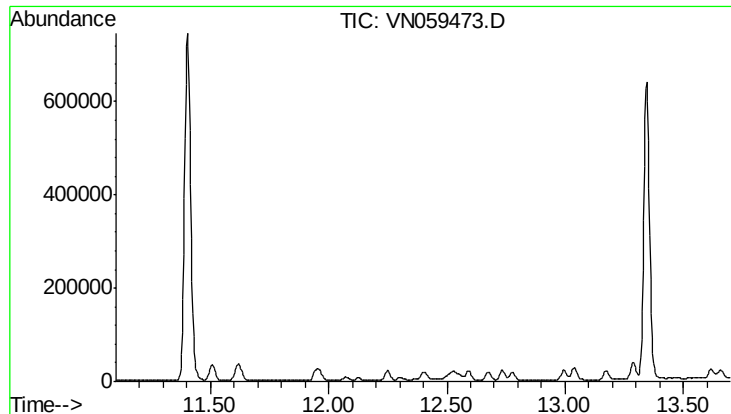


#61  
1,2-Dibromoethane  
Concen: 1.030 ug/l  
RT: 11.00 min Scan# 2870  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 98.3  | 75.4  | 113.0 |







#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.40 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Tot Ion: 95

Sig Exp Ratio

95 100

174 78.5

176 76.2

Instrument :

MSVOA\_N

ClientSampleId :

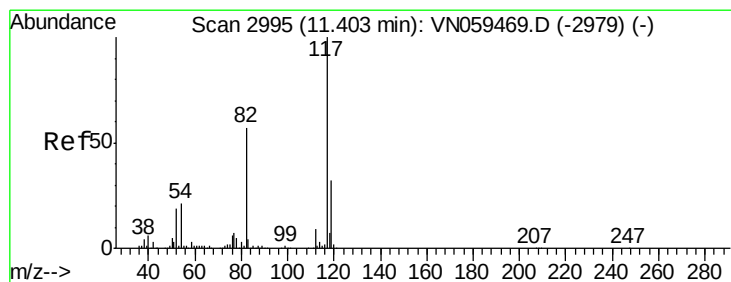
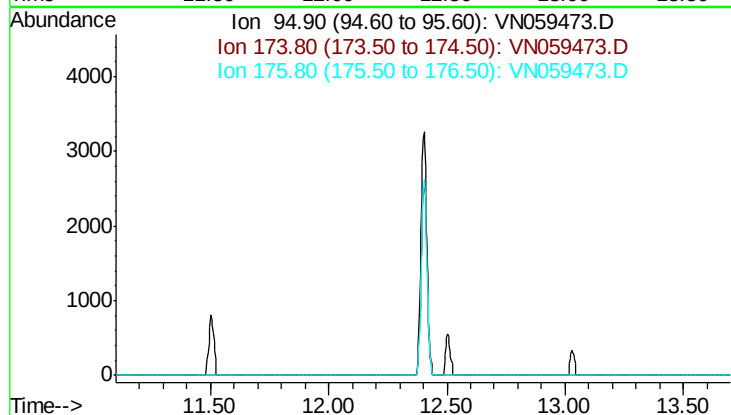
VSTDIC001

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

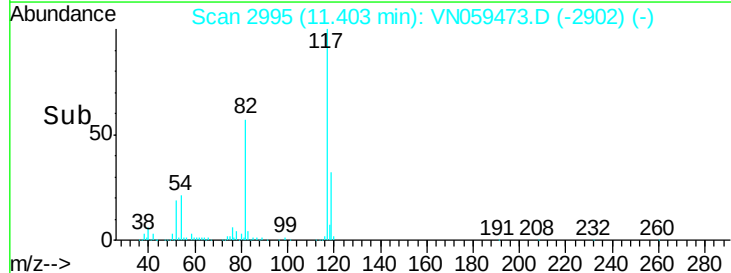
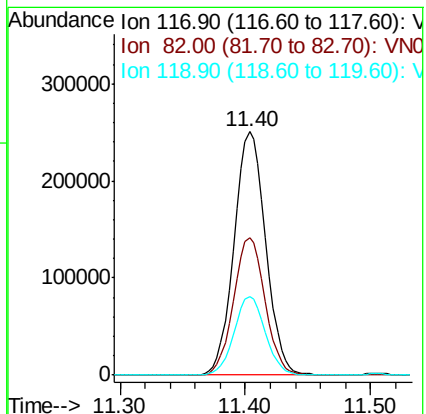
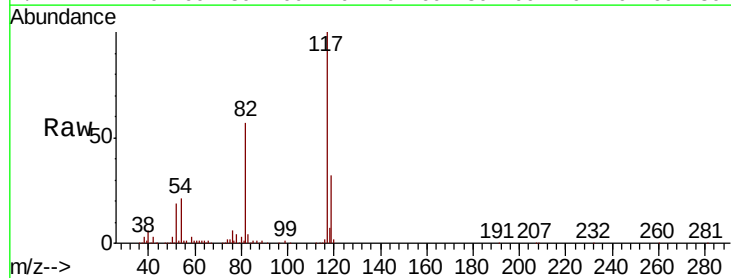
Tgt Ion:117 Resp: 438976

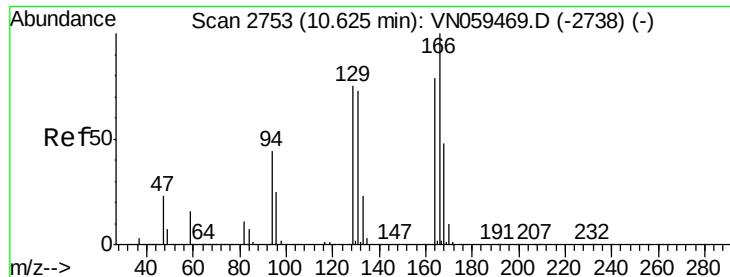
Ion Ratio Lower Upper

117 100

82 56.6 45.8 68.8

119 32.4 25.4 38.0





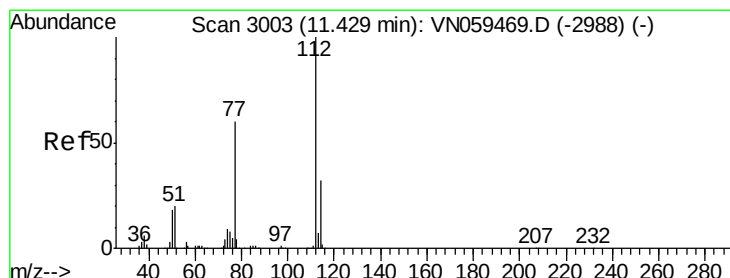
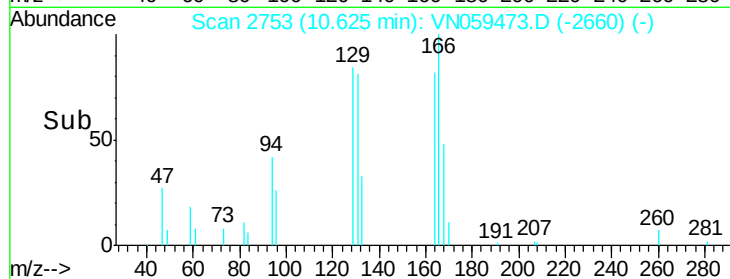
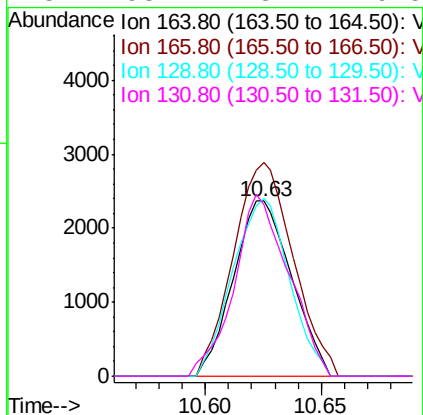
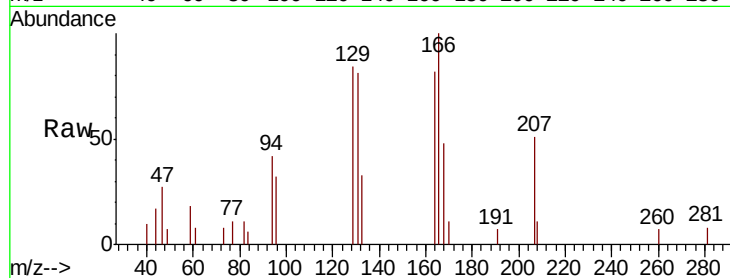
#64  
Tetrachloroethene  
Concen: 1.253 ug/l  
RT: 10.63 min Scan# 2753  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 121.9 | 101.2 | 151.8 |
| 129     | 101.9 | 76.1  | 114.1 |
| 131     | 98.2  | 73.7  | 110.5 |

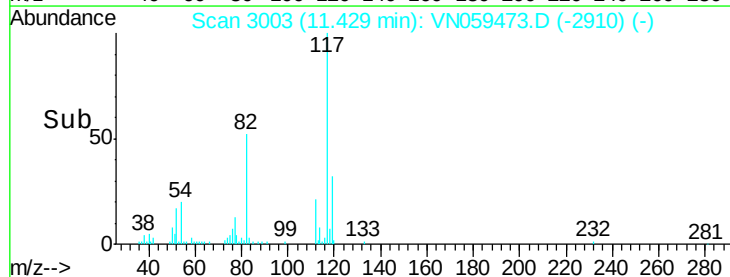
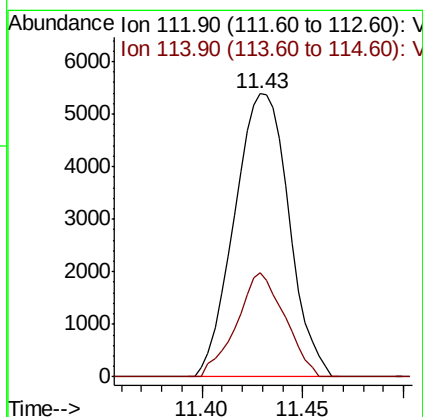
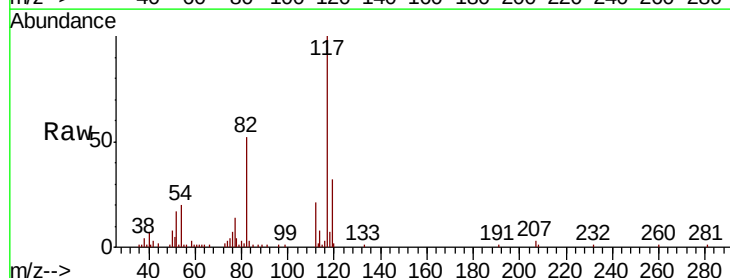
Manual Integrations  
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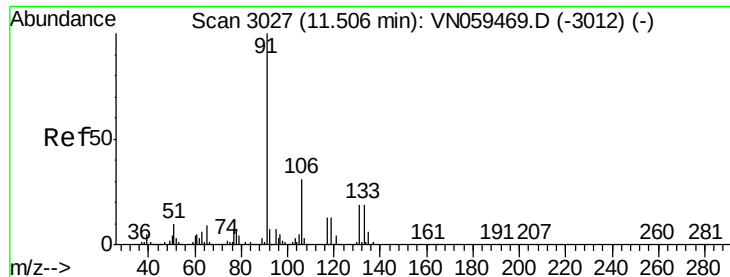
apatel  
12/4/2019 9:22:19 AM



#65  
Chlorobenzene  
Concen: 1.135 ug/l  
RT: 11.43 min Scan# 3003  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 36.9  | 25.7  | 38.5  |





#66

1,1,1,2-Tetrachloroethane

Concen: 0.962 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

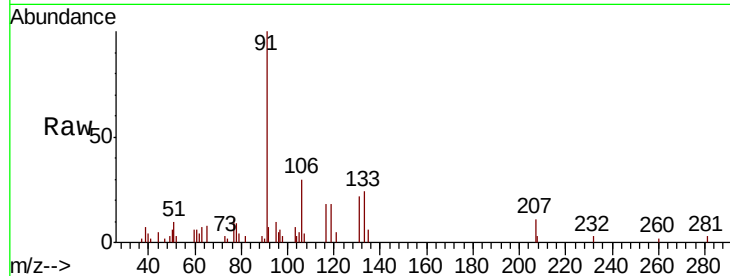
ClientSampled :

VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 121.7 | 48.0  | 144.0 |
| 119     | 0.0   | 33.9  | 101.6 |

Manual Integrations  
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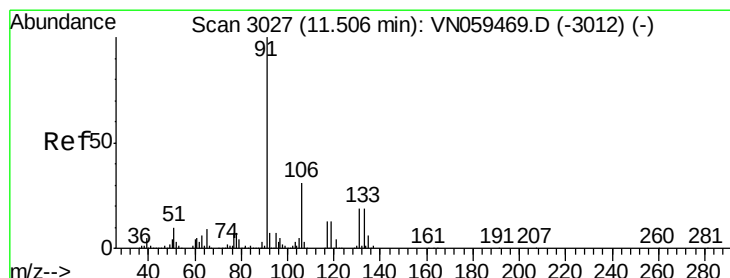
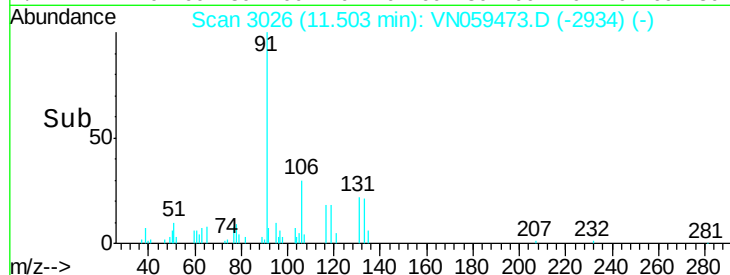
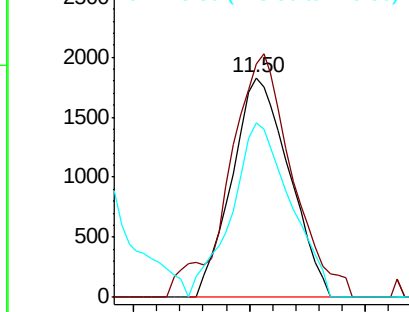
apatel  
12/4/2019 9:22:19 AM



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 1.022 ug/l

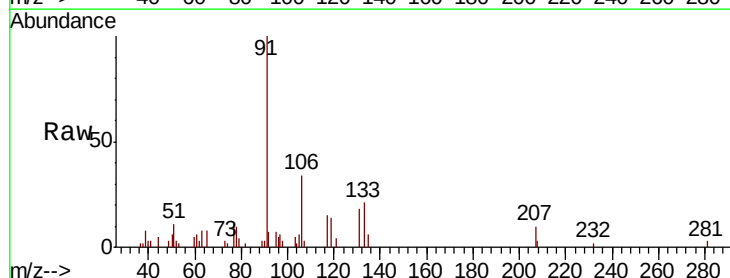
RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059473.D

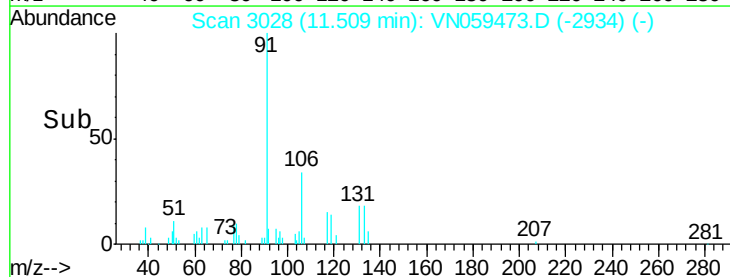
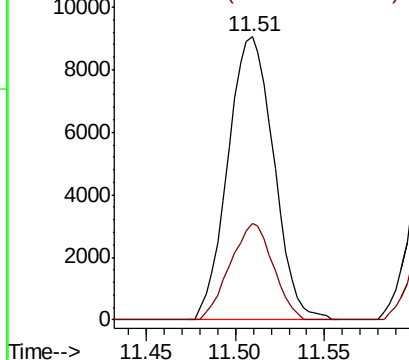
Acq: 3 Dec 2019 16:13

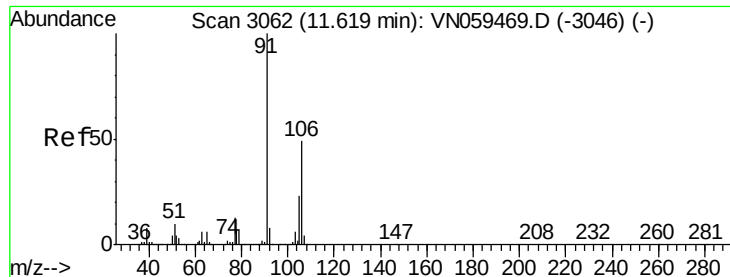
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 34.0  | 24.7  | 37.1  |



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





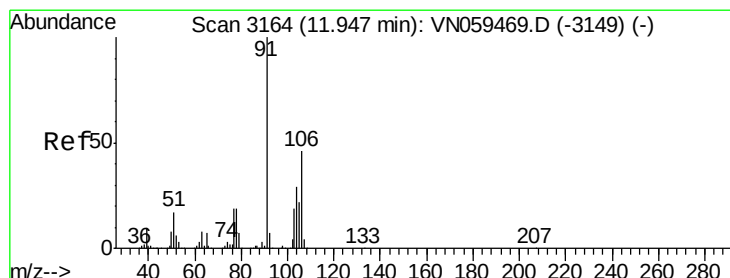
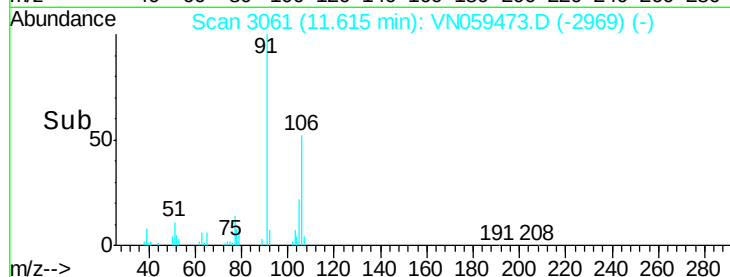
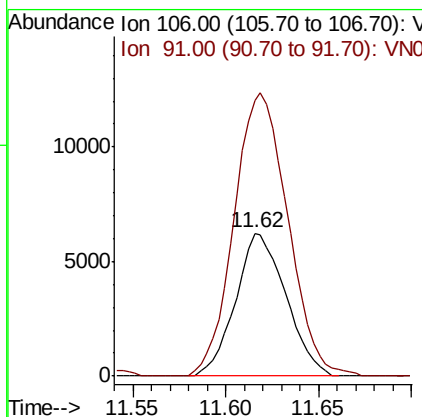
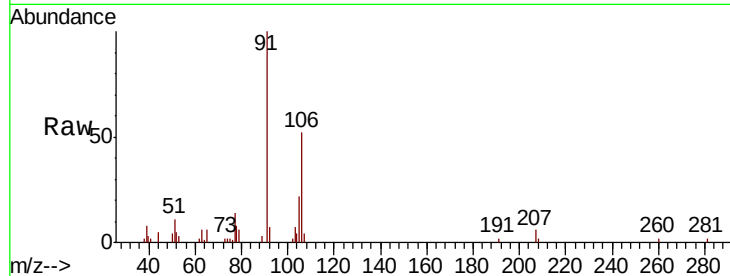
#68  
m/p-Xylenes  
Concen: 1.981 ug/l  
RT: 11.62 min Scan# 3061  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

Tot Ion:106 Resp: 11730  
Ion Ratio Lower Upper  
106 100  
91 212.5 162.2 243.4

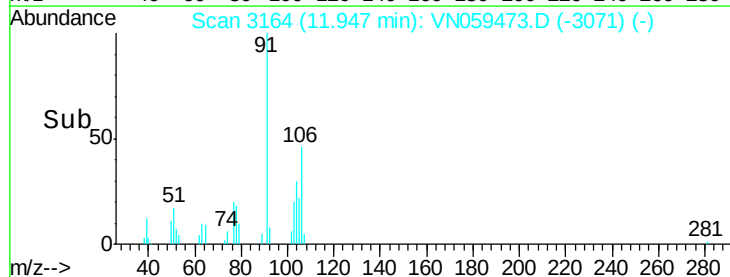
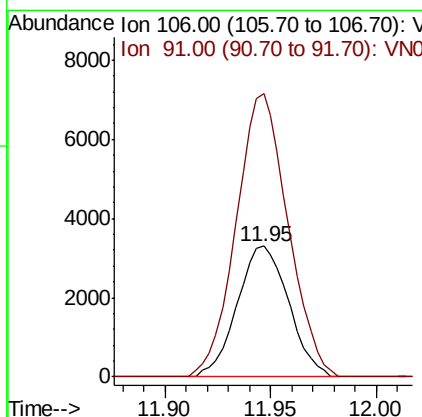
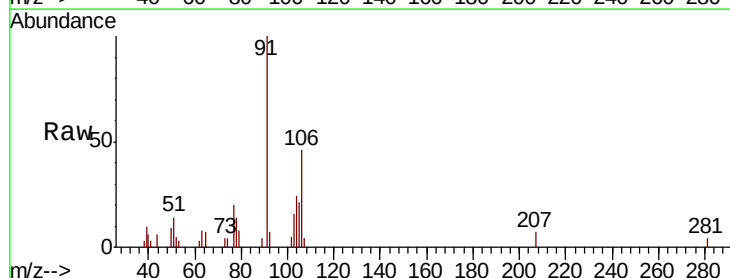
Manual Integrations  
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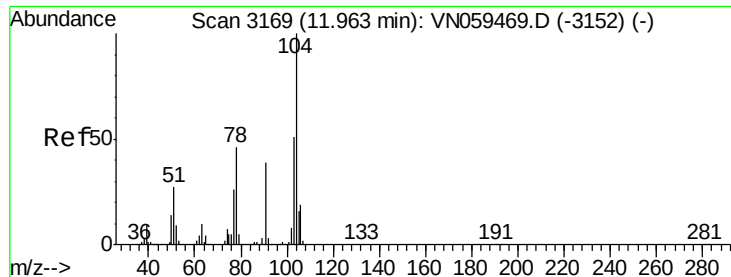
apatel  
12/4/2019 9:22:19 AM



#69  
o-Xylene  
Concen: 0.989 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Tgt Ion:106 Resp: 5593  
Ion Ratio Lower Upper  
106 100  
91 217.8 108.5 325.3





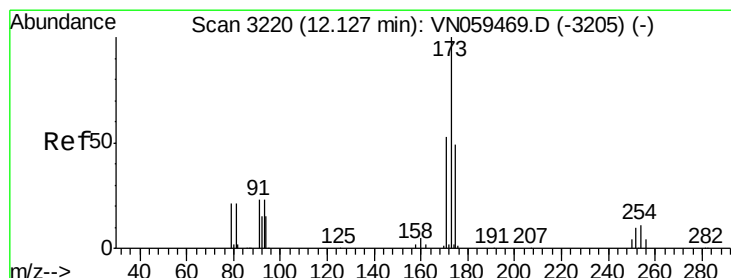
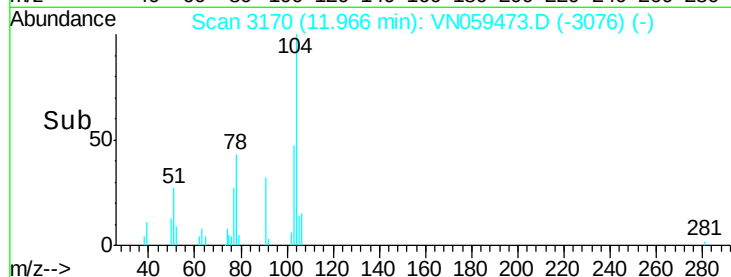
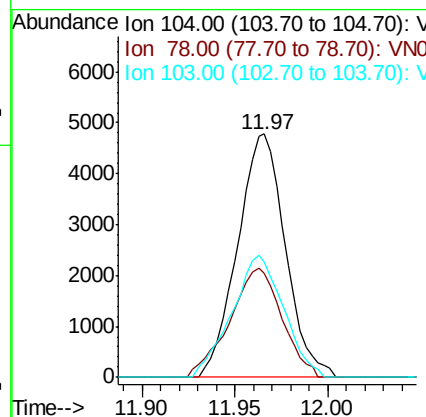
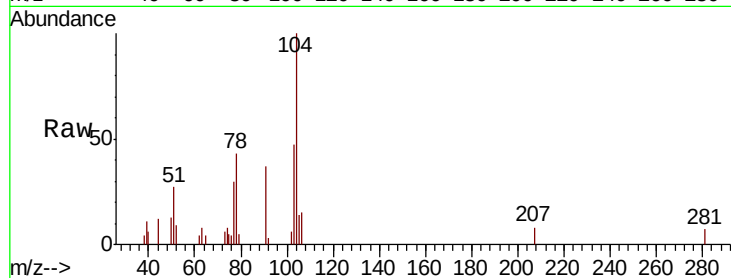
#70  
Stvrene  
Concen: 0.963 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 49.1  | 41.0  | 61.4  |
| 103     | 54.3  | 44.7  | 67.1  |

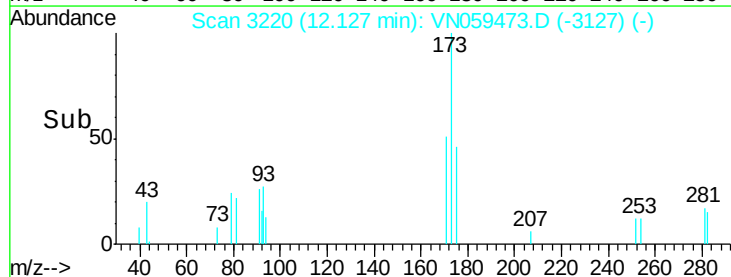
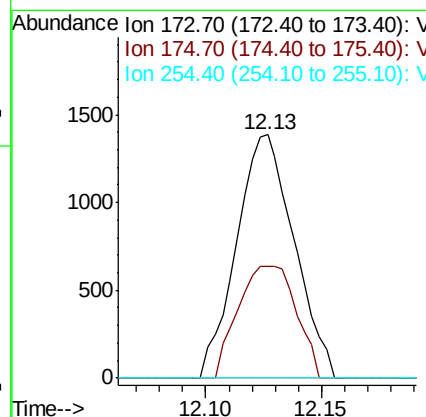
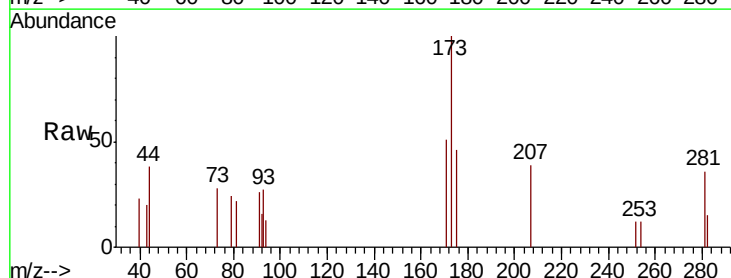
Manual Integrations  
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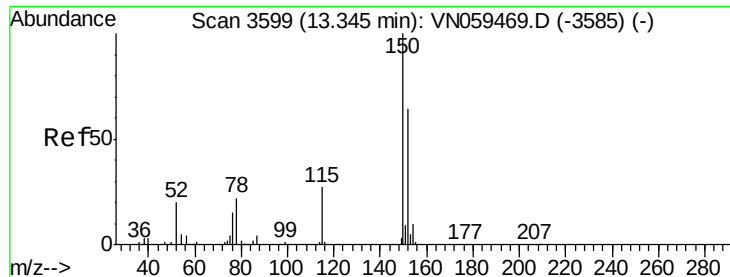
apatel  
12/4/2019 9:22:19 AM



#71  
Bromoform  
Concen: 0.957 ug/l  
RT: 12.13 min Scan# 3220  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 46.5  | 24.3  | 73.0  |
| 254     | 0.0   | 0.0   | 0.0   |





#72

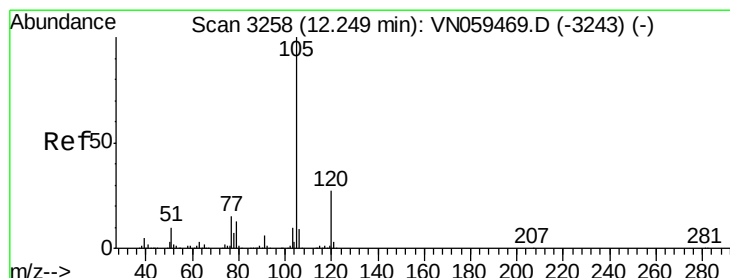
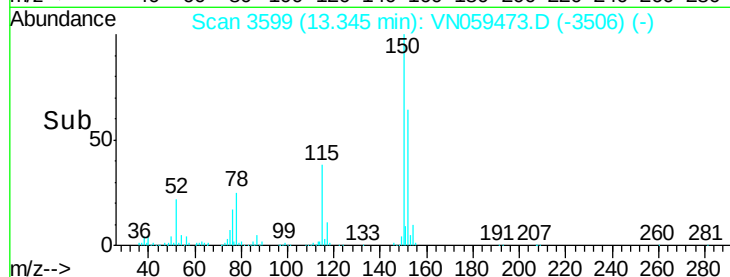
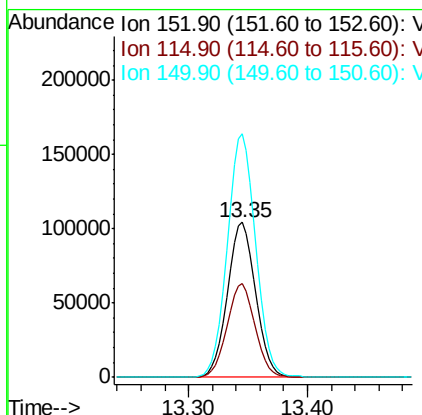
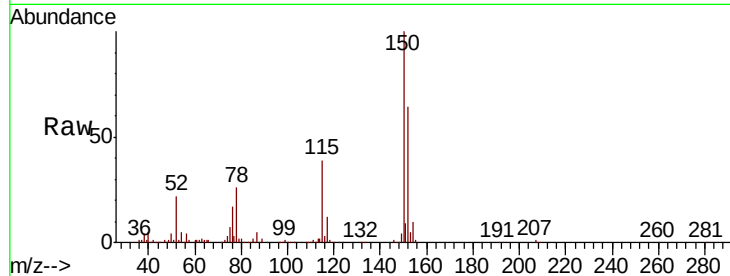
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.0  | 29.2  | 87.6  |
| 150     | 156.4 | 0.0   | 352.8 |

Manual Integrations  
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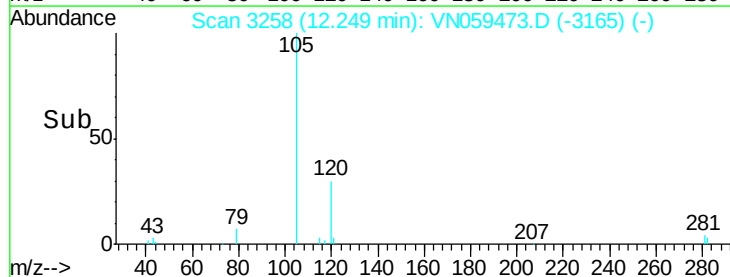
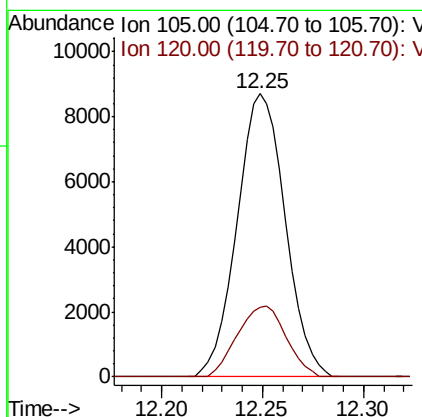
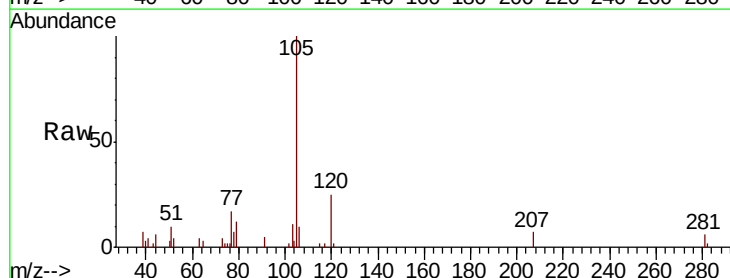
apatel  
12/4/2019 9:22:19 AM

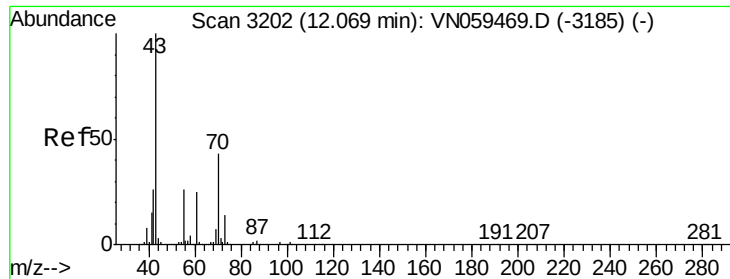


#73

Isopropylbenzene  
Concen: 1.128 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.4  | 13.2  | 39.6  |





#74

N-amvl acetate

Concen: 1.082 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

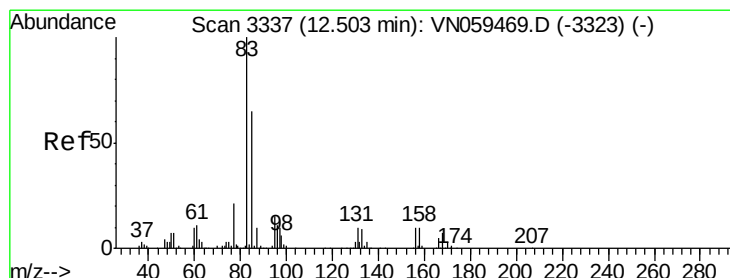
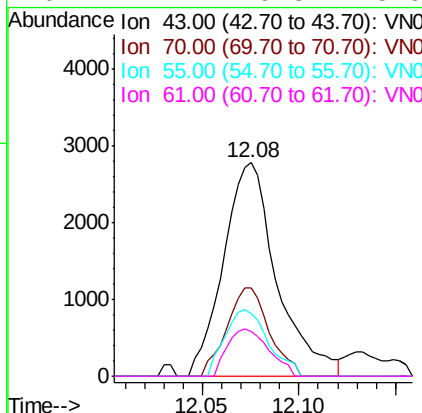
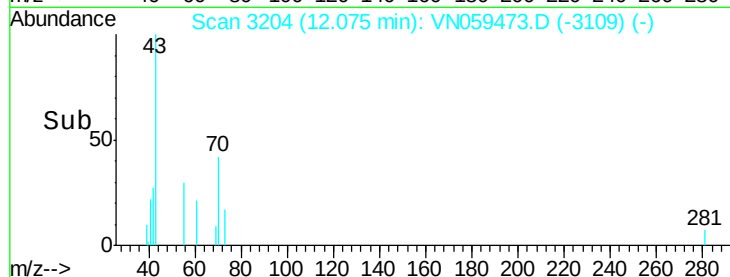
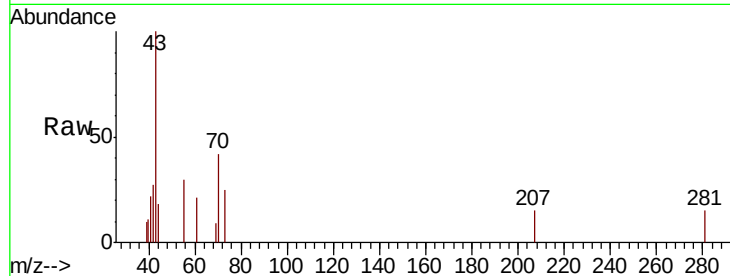
VSTDIC001

Tot Ion: 43 Resp: 5332

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 70  | 32.7  | 34.2  | 51.2# |
| 55  | 25.5  | 20.6  | 31.0  |
| 61  | 17.2  | 19.3  | 28.9# |

Manual Integrations  
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#75

1,1,2,2-Tetrachloroethane

Concen: 1.078 ug/l

RT: 12.50 min Scan# 3337

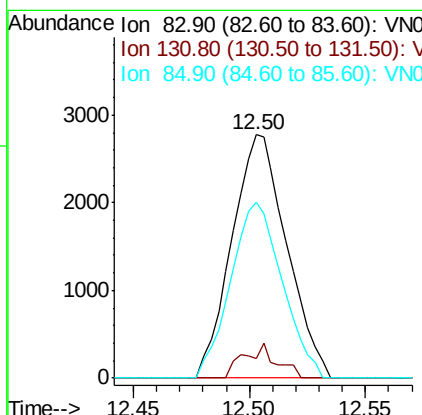
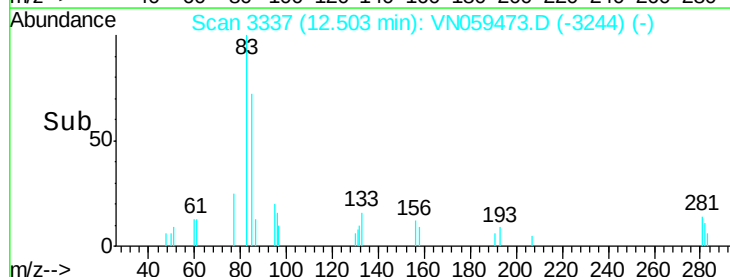
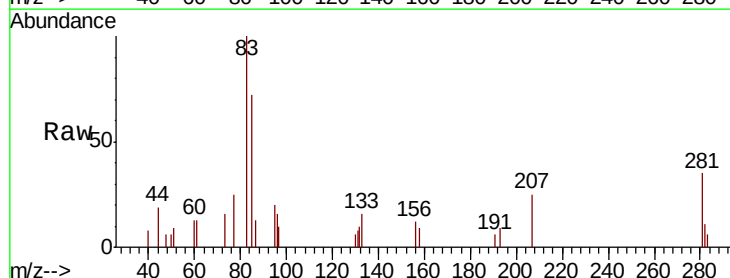
Delta R.T. -0.00 min

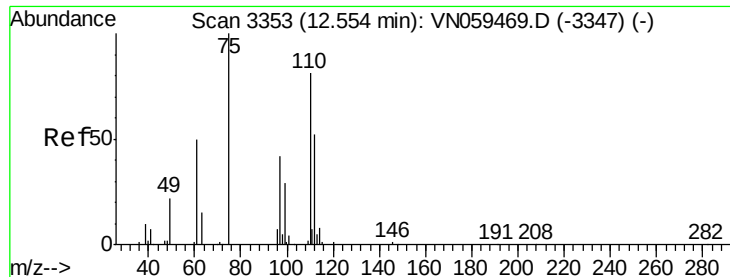
Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Tgt Ion: 83 Resp: 4564

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 8.3   | 4.9   | 14.7  |
| 85  | 67.7  | 32.2  | 96.6  |





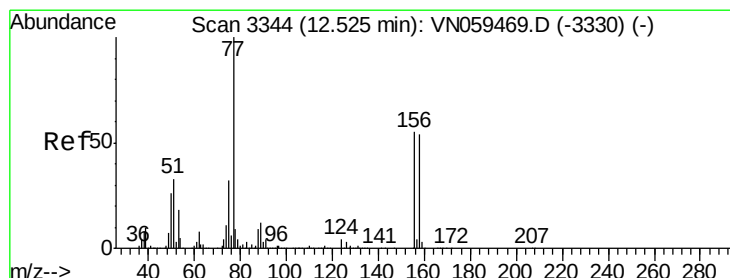
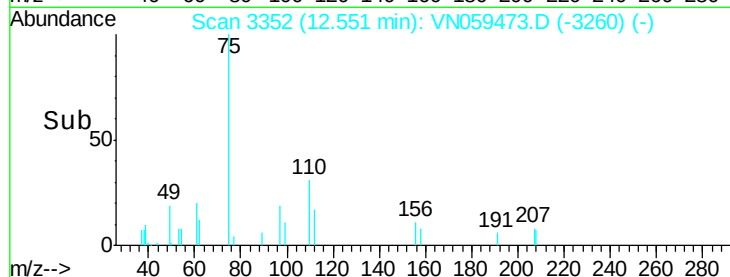
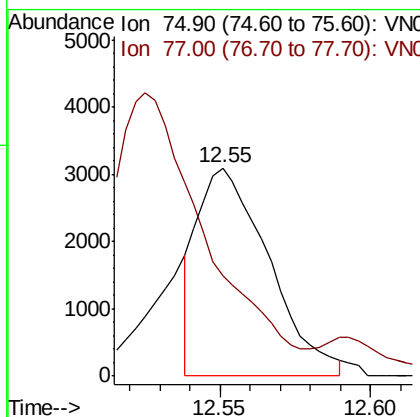
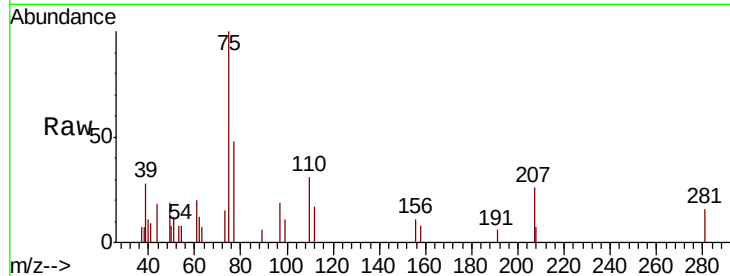
#76  
 1,2,3-Trichloropropane  
 Concen: 1.279 ug/l m  
 RT: 12.55 min Scan# 3352  
 Delta R.T. -0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 0.0   | 0.0   |

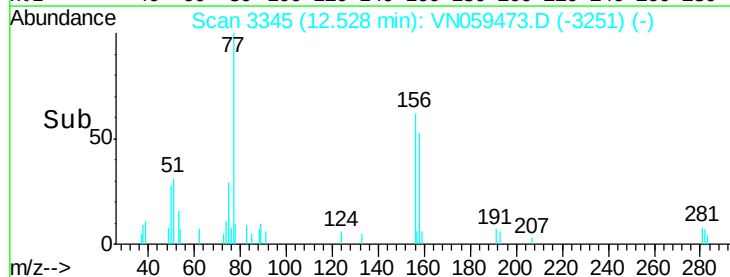
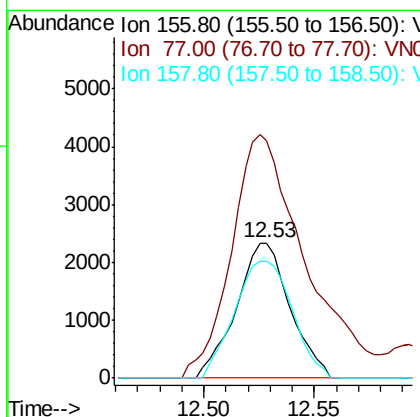
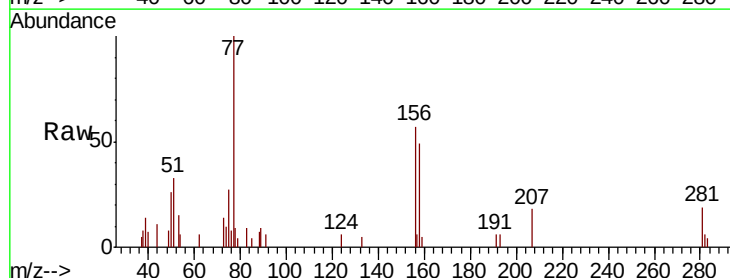
Manual Integrations  
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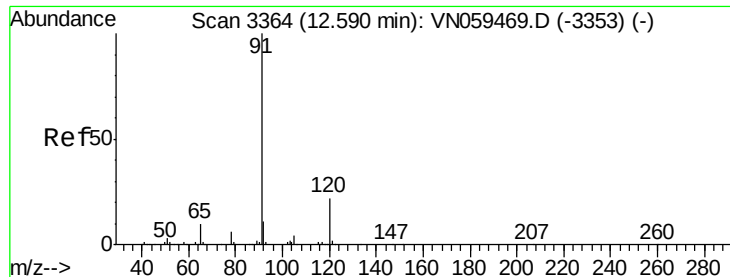


#77  
 Bromobenzene  
 Concen: 1.249 ug/l  
 RT: 12.53 min Scan# 3345  
 Delta R.T. 0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 247.4 | 110.3 | 331.0 |
| 158     | 92.7  | 48.5  | 145.5 |







#78

n-propylbenzene

Concen: 1.136 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC001

Tot Ion: 91 Resp: 16936

Ion Ratio Lower Upper

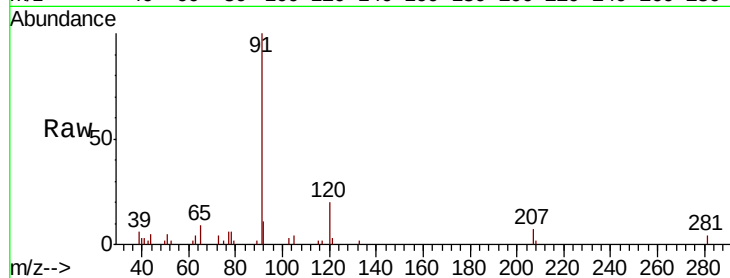
91 100

120 20.6 11.3 33.9

Manual Integrations  
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apatel

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Abundance Ion 91.00 (90.70 to 91.70): VN059469.D (-3353) (-)

Ion 120.00 (119.70 to 120.70): VN059469.D (-3353) (-)

12000

10000

8000

6000

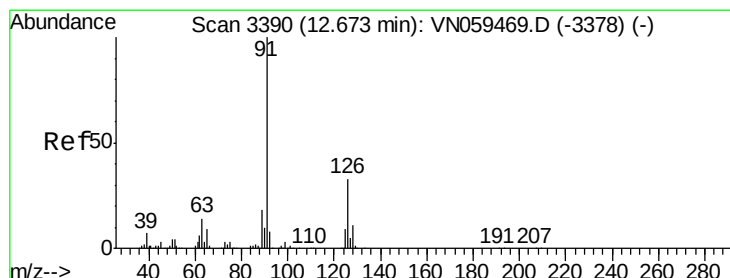
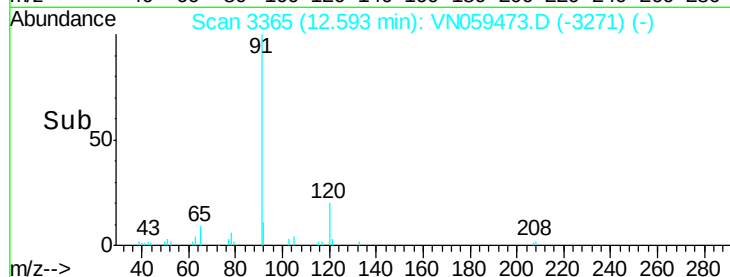
4000

2000

0

Time-->

12.55 12.60 12.65



#79

2-Chlorotoluene

Concen: 1.175 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN059473.D

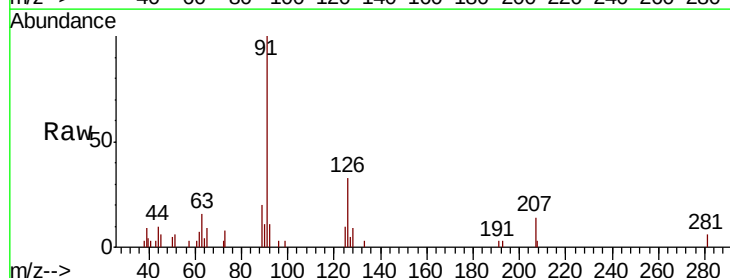
Acq: 3 Dec 2019 16:13

Tgt Ion: 91 Resp: 10461

Ion Ratio Lower Upper

91 100

126 31.9 16.6 49.8



Abundance Ion 91.00 (90.70 to 91.70): VN059469.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN059469.D (-3378) (-)

8000

6000

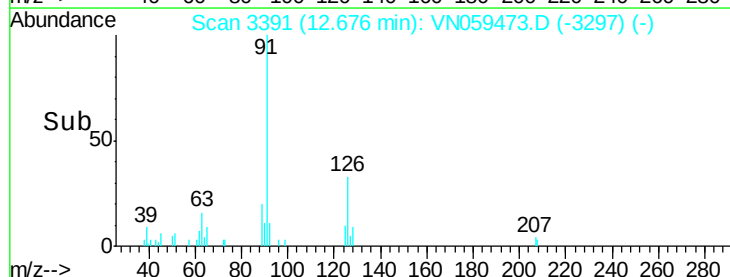
4000

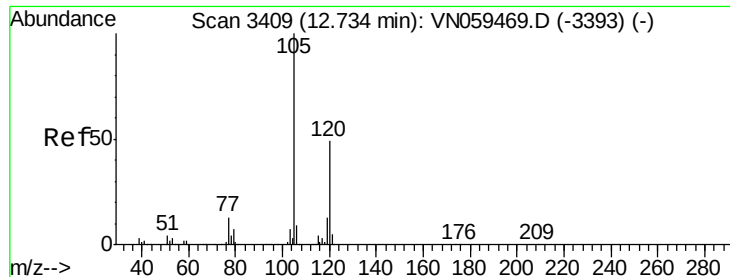
2000

0

Time-->

12.65 12.70





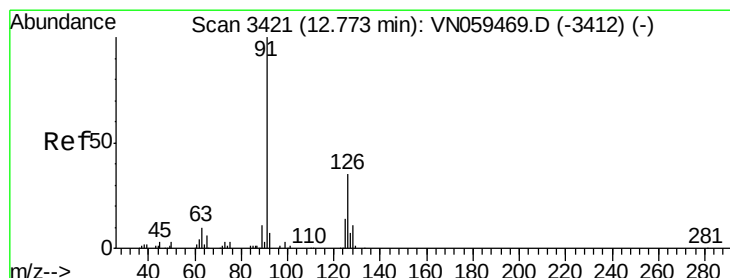
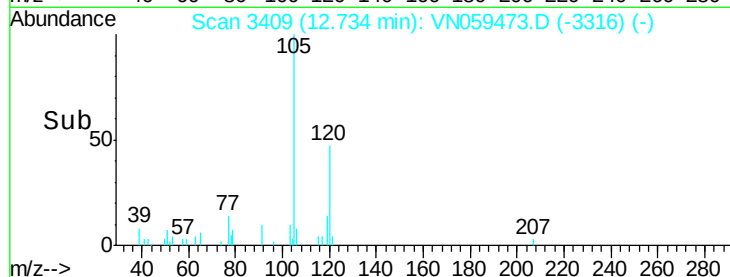
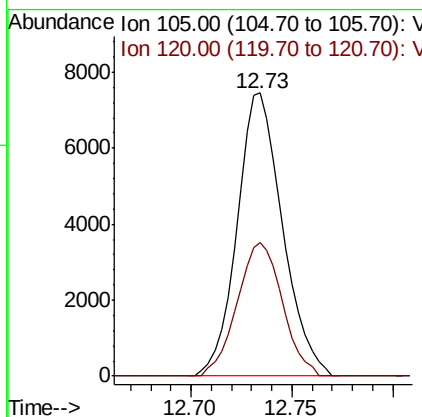
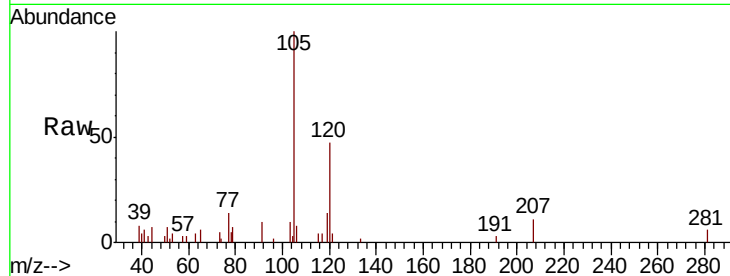
#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.084 ug/l  
 RT: 12.73 min Scan# 3409  
 Delta R.T. -0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 46.8  | 24.3  | 73.0  |

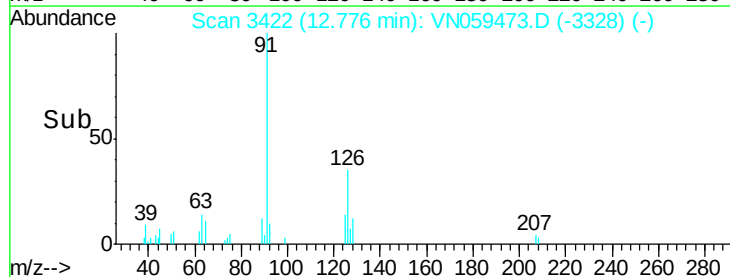
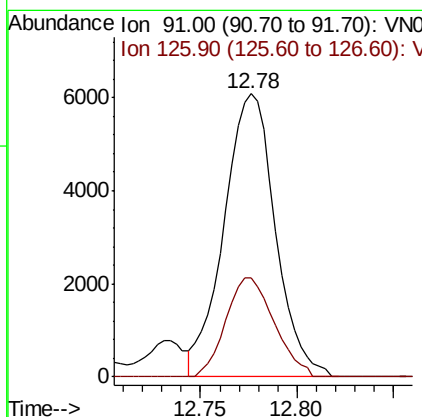
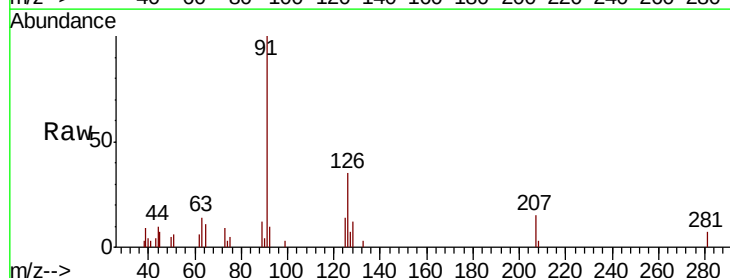
Manual Integrations  
 APPROVED

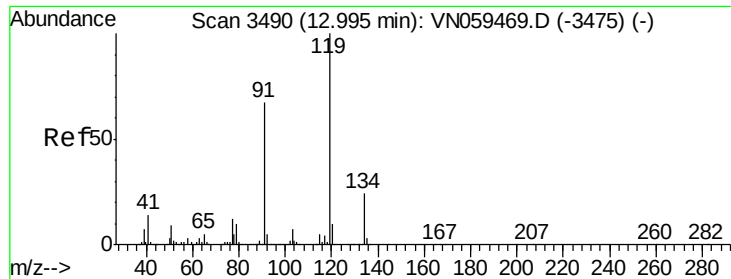
apatel  
 12/4/2019 9:22:19 AM



#82  
 4-Chlorotoluene  
 Concen: 1.224 ug/l  
 RT: 12.78 min Scan# 3422  
 Delta R.T. 0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 32.9  | 16.4  | 49.2  |





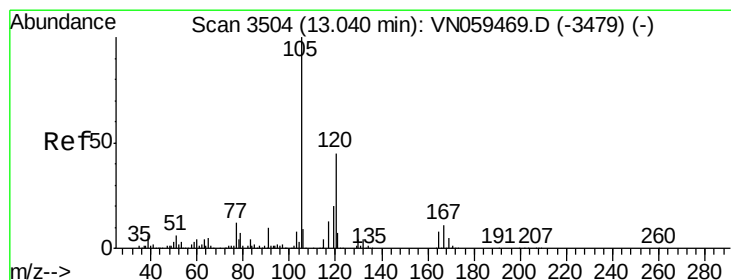
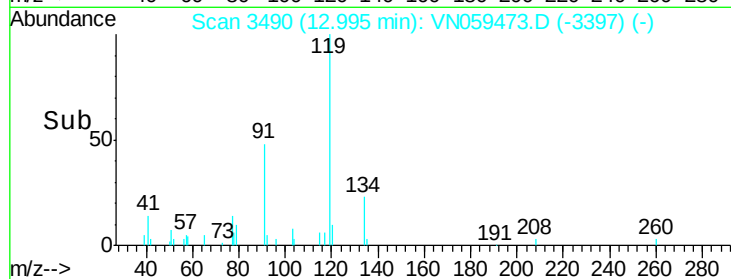
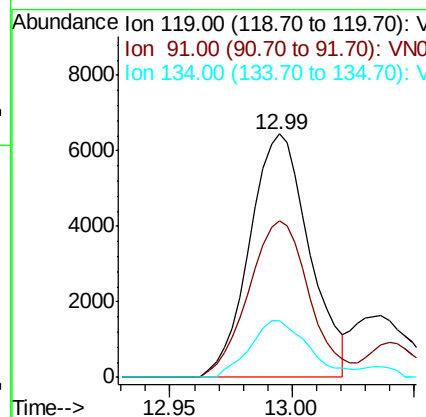
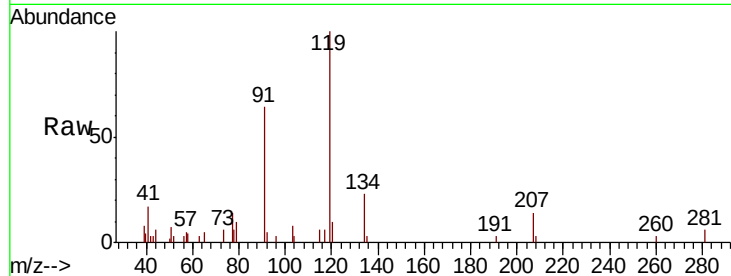
#83  
 tert-Butylbenzene  
 Concen: 1.169 ug/l  
 RT: 12.99 min Scan# 3490  
 Delta R.T. -0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 65.2  | 32.6  | 97.7  |
| 134     | 23.2  | 12.6  | 37.6  |

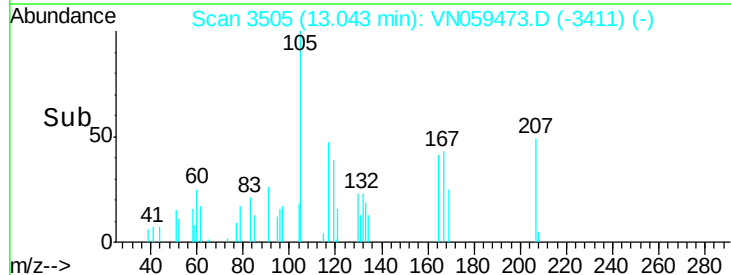
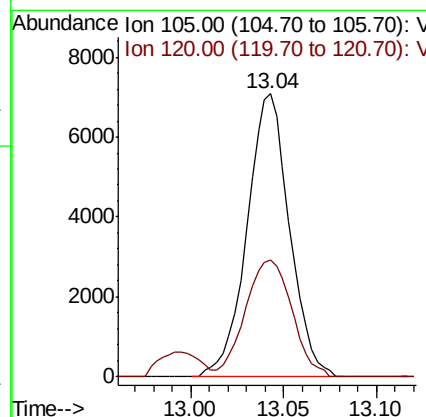
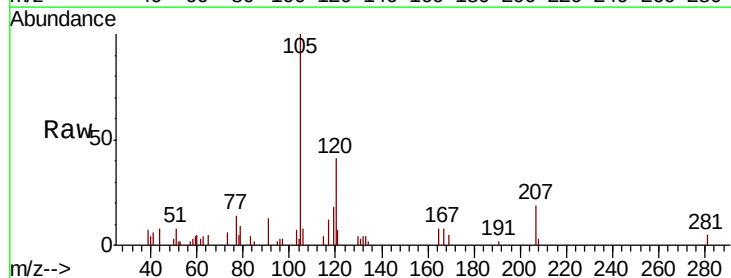
Manual Integrations  
 APPROVED

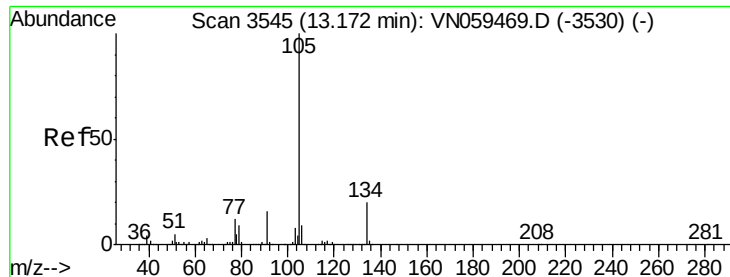
apatel  
 12/4/2019 9:22:19 AM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.057 ug/l  
 RT: 13.04 min Scan# 3505  
 Delta R.T. 0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 45.3  | 22.6  | 67.8  |





#85

sec-Butylbenzene

Concen: 1.089 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 13483

Ion Ratio Lower Upper

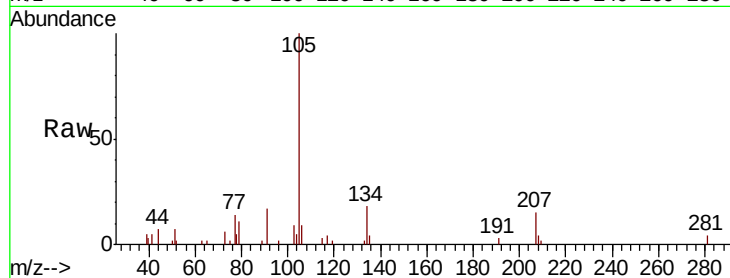
105 100

134 19.0 9.8 29.5

Manual Integrations  
APPROVED

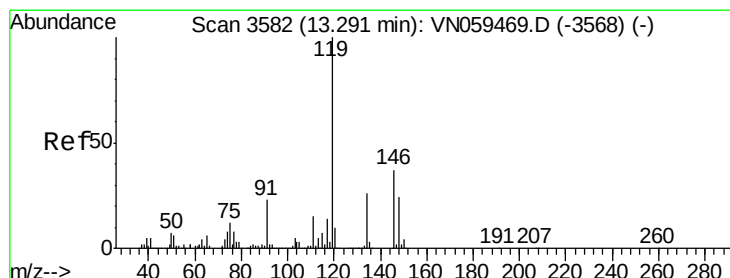
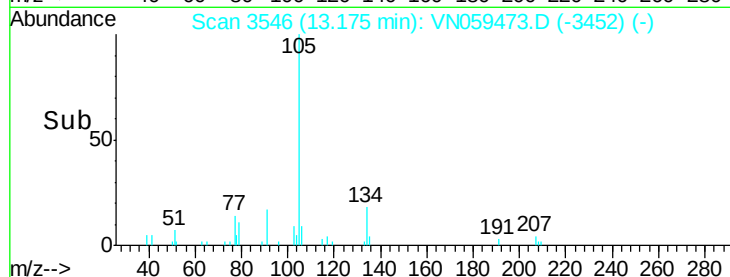
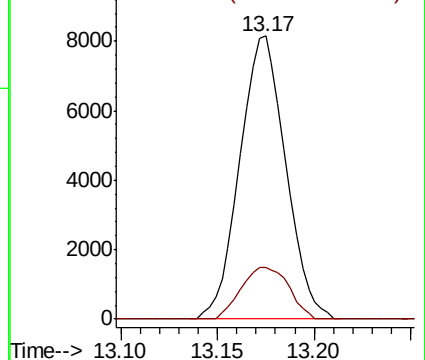
apatel

12/4/2019 9:22:19 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.094 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

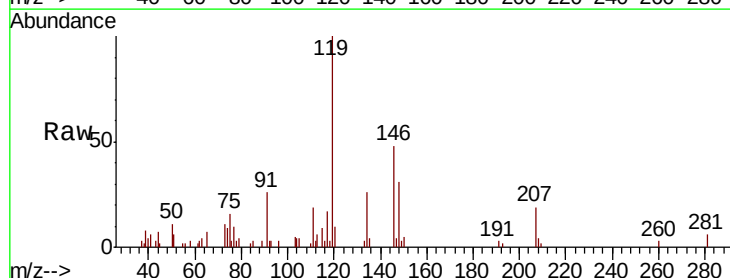
Tgt Ion:119 Resp: 12235

Ion Ratio Lower Upper

119 100

134 25.6 13.1 39.3

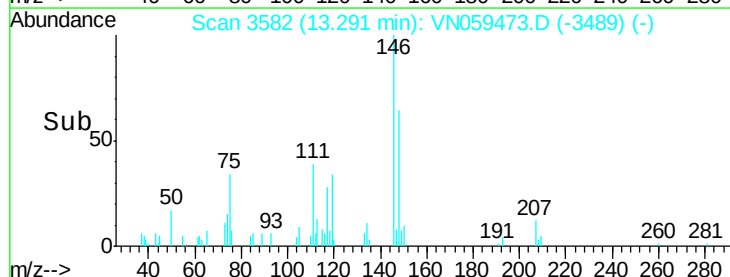
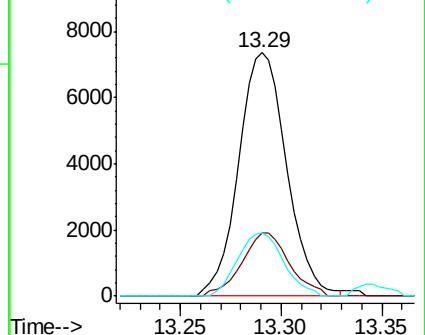
91 24.9 11.7 35.1

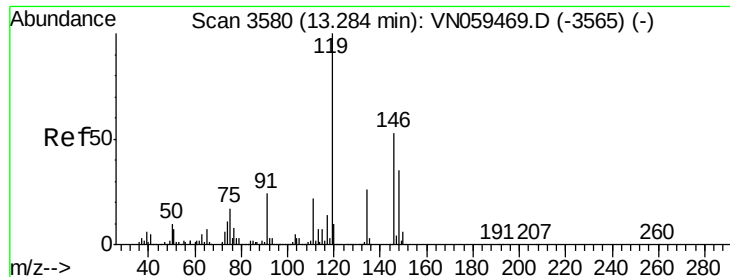


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





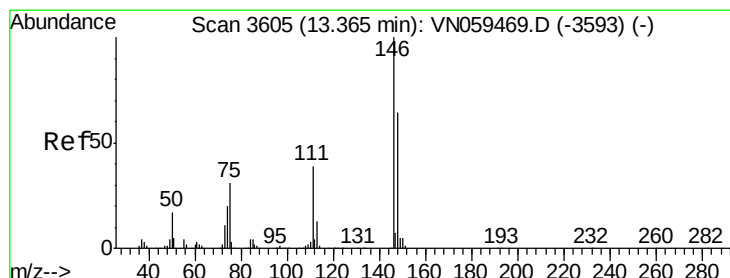
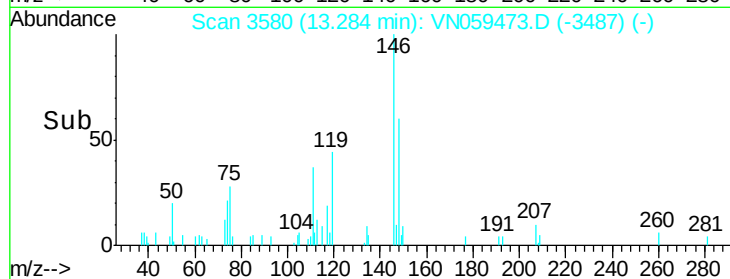
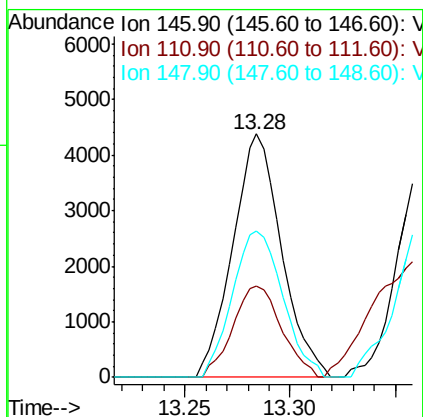
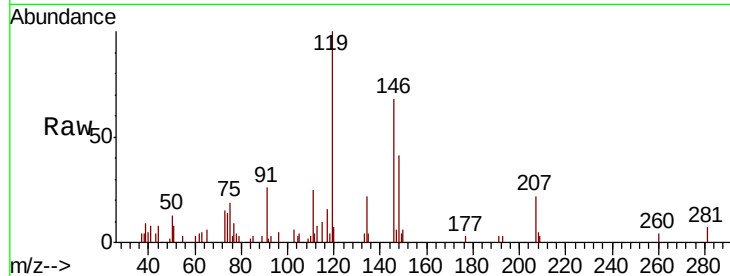
#87  
 1,3-Dichlorobenzene  
 Concen: 1.255 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. -0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.4  | 20.4  | 61.3  |
| 148     | 62.4  | 32.1  | 96.5  |

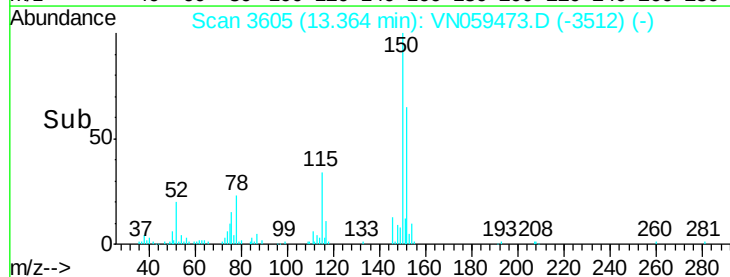
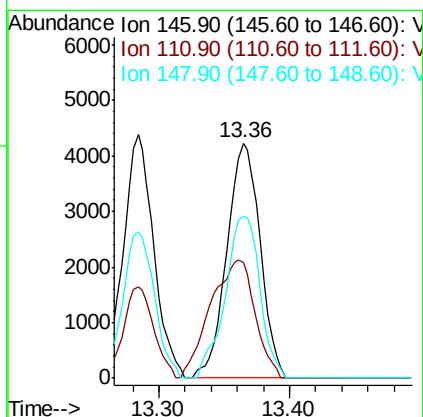
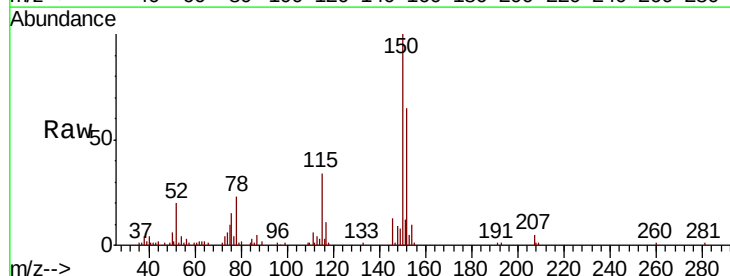
Manual Integrations  
 APPROVED

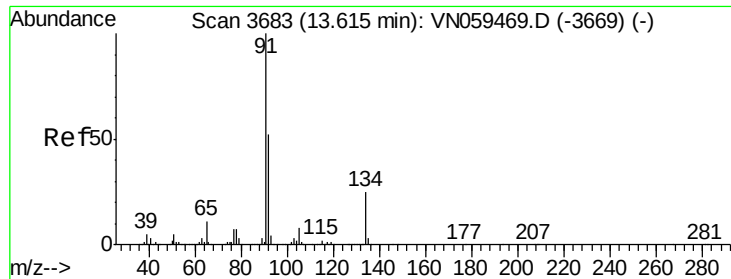
apatel  
 12/4/2019 9:22:19 AM



#88  
 1,4-Dichlorobenzene  
 Concen: 1.326 ug/l m  
 RT: 13.36 min Scan# 3605  
 Delta R.T. -0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 35.2  | 19.8  | 59.3  |
| 148     | 58.7  | 32.0  | 96.0  |





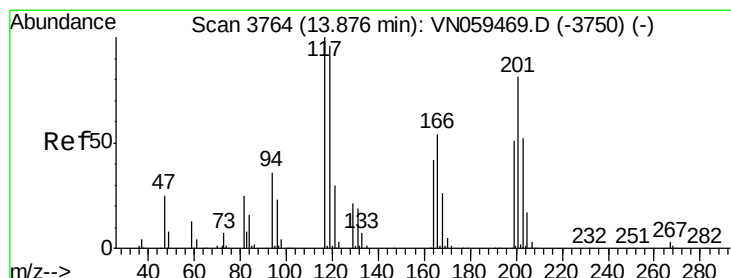
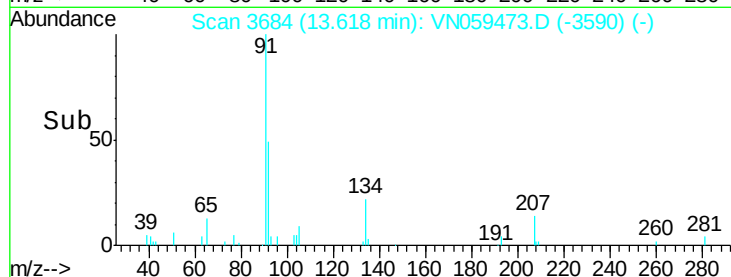
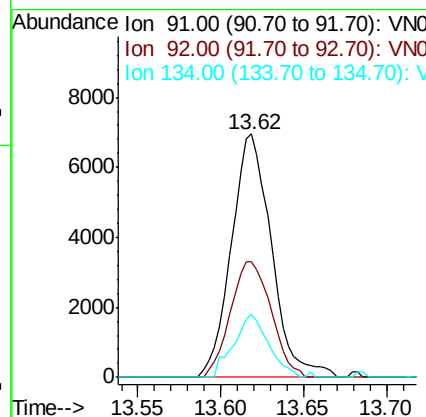
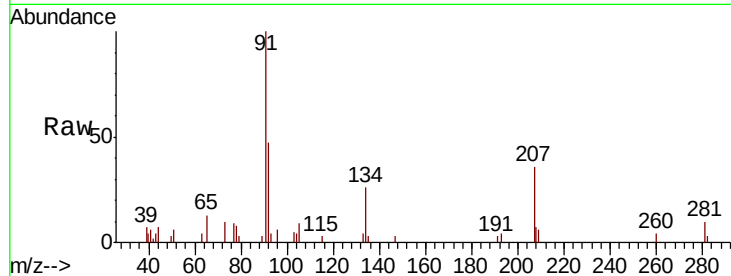
#89  
n-Butylbenzene  
Concen: 1.194 ug/l  
RT: 13.62 min Scan# 3684  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 48.1  | 25.9  | 77.8  |
| 134     | 22.5  | 12.6  | 37.6  |

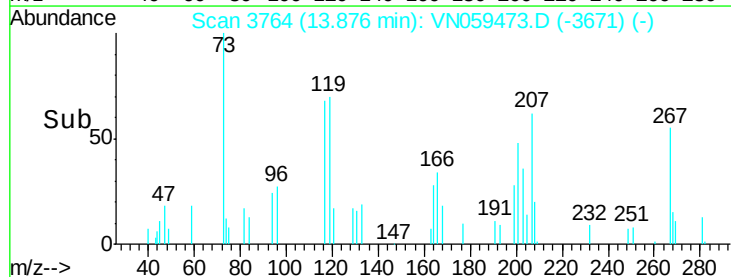
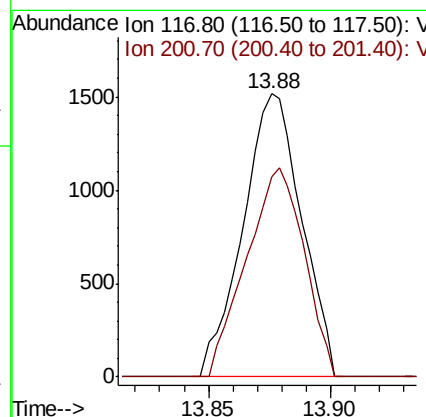
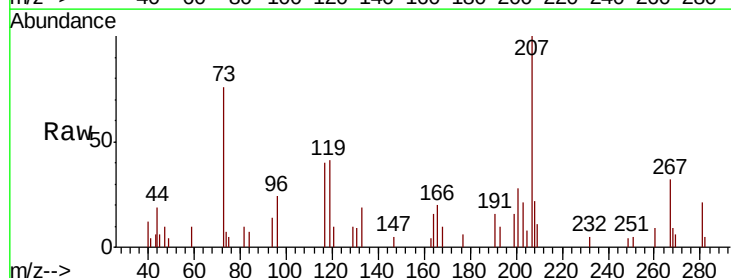
Manual Integrations  
APPROVED

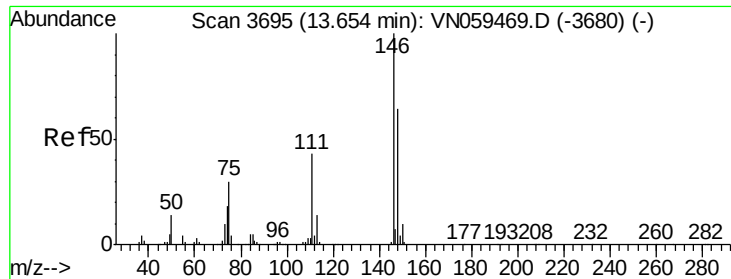
apatel  
12/4/2019 9:22:19 AM



#90  
Hexachloroethane  
Concen: 1.176 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 72.8  | 40.6  | 122.0 |





#91

1,2-Dichlorobenzene

Concen: 1.198 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

Instrument :

MSVOA\_N

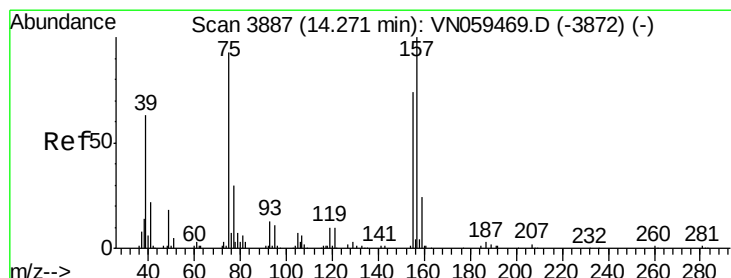
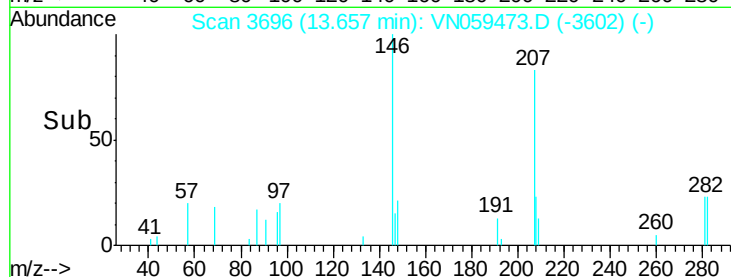
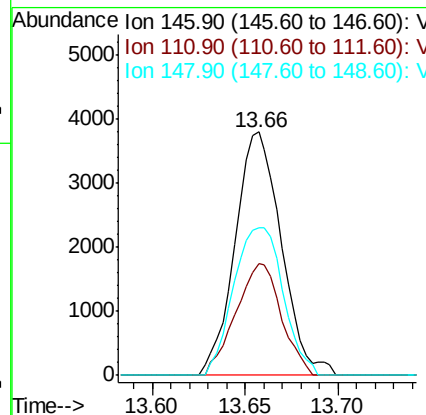
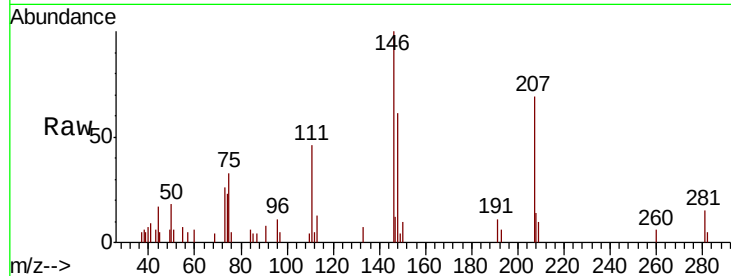
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 6564  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 45.1  | 21.3  | 63.7  |
| 148      | 64.9  | 32.2  | 96.6  |

Manual Integrations  
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apatel  
12/4/2019 9:22:19 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.600 ug/l

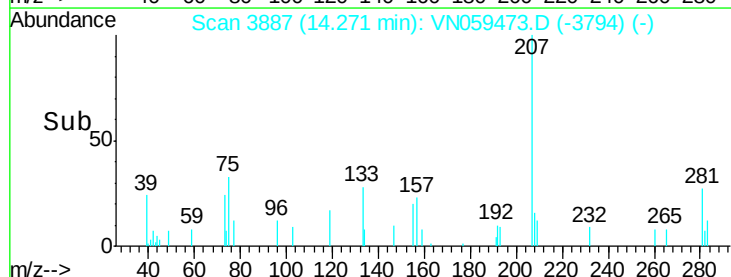
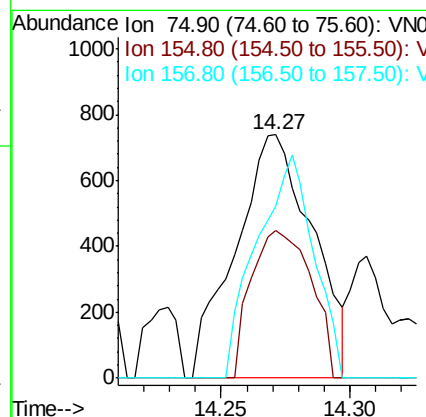
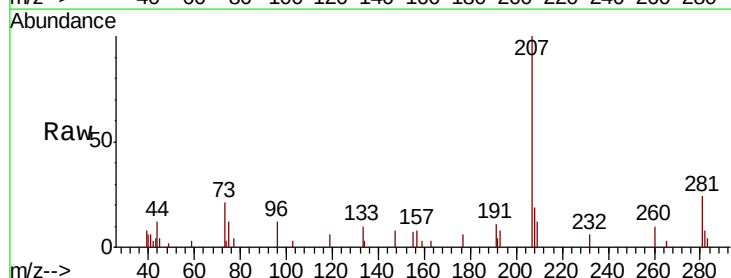
RT: 14.27 min Scan# 3887

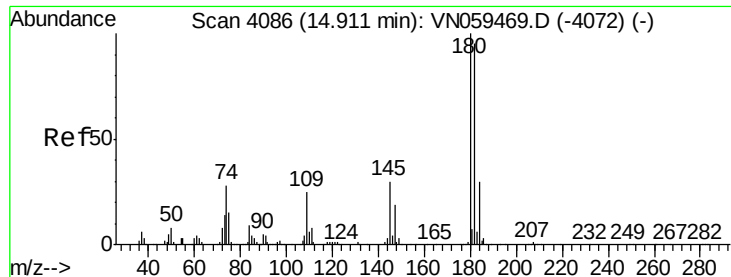
Delta R.T. -0.00 min

Lab File: VN059473.D

Acq: 3 Dec 2019 16:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 1539  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 155      | 47.2  | 40.6  | 122.0 |
| 157      | 67.8  | 52.9  | 158.7 |





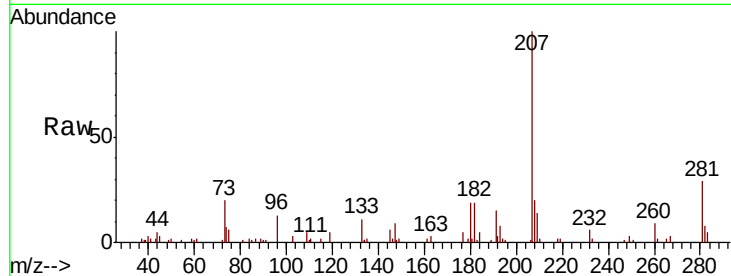
#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.291 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 99.0  | 48.0  | 144.2 |
| 145     | 34.4  | 15.2  | 45.6  |

Manual Integrations  
 APPROVED

apatel  
 12/4/2019 9:22:19 AM

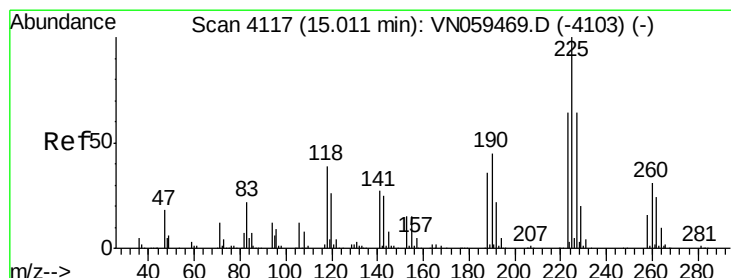
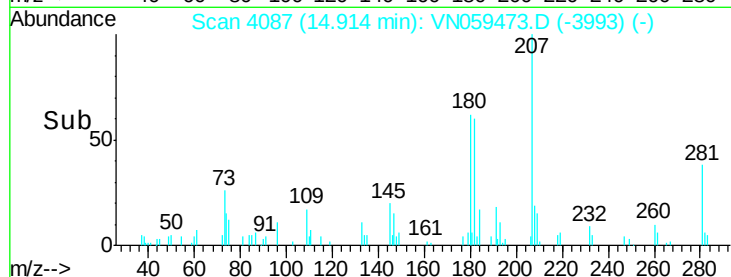
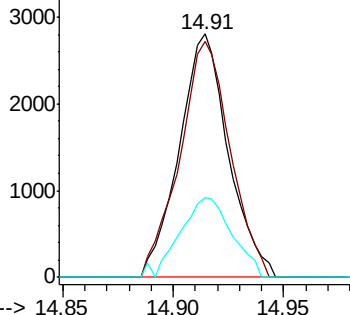


Abundance

Ion 179.80 (179.50 to 180.50): V

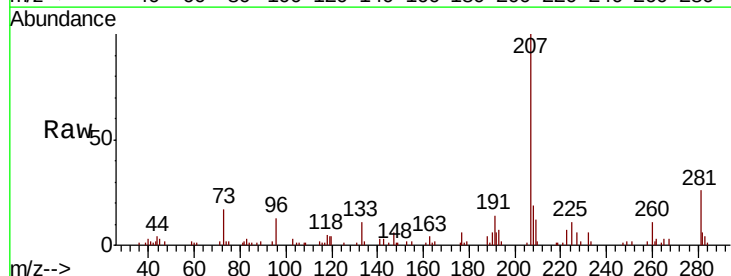
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 1.471 ug/l  
 RT: 15.01 min Scan# 4116  
 Delta R.T. -0.00 min  
 Lab File: VN059473.D  
 Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 69.8  | 31.9  | 95.5  |
| 227     | 57.7  | 32.0  | 96.2  |

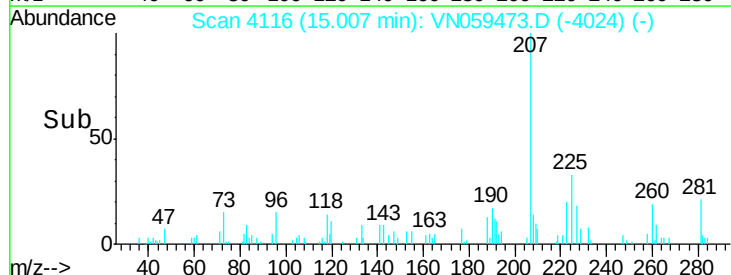
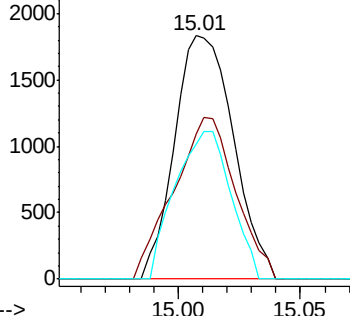


Abundance

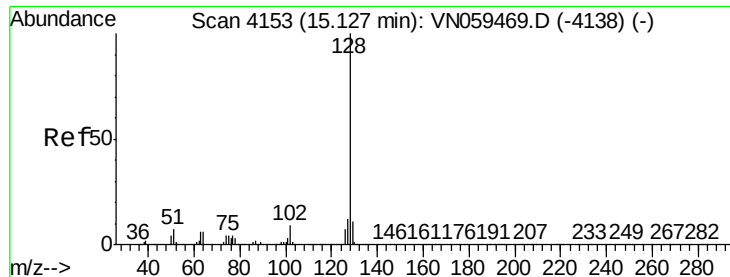
Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V







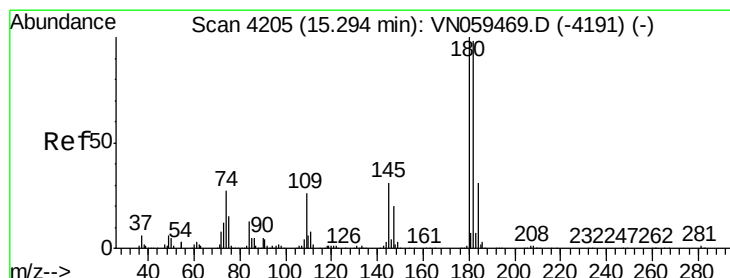
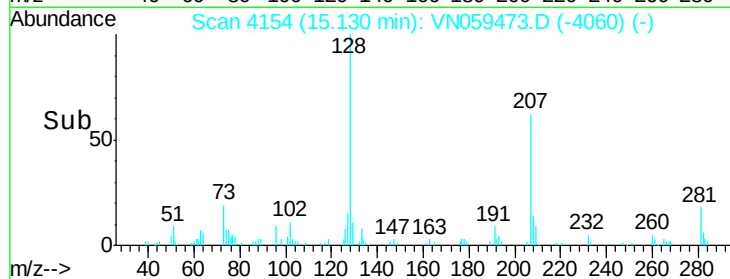
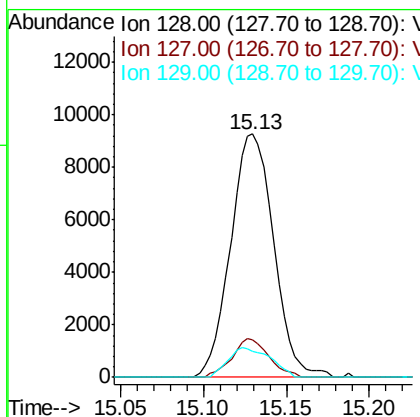
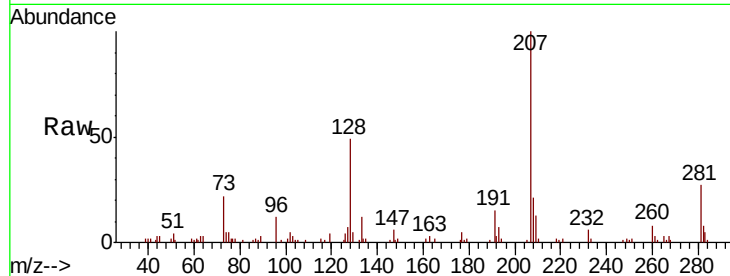
#95  
Naphthalene  
Concen: 1.746 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. 0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.7  | 10.2  | 15.4  |
| 129     | 11.9  | 8.8   | 13.2  |

Manual Integrations  
APPROVED

apatel  
12/4/2019 9:22:19 AM



#96  
1,2,3-Trichlorobenzene  
Concen: 1.613 ug/l  
RT: 15.29 min Scan# 4205  
Delta R.T. -0.00 min  
Lab File: VN059473.D  
Acq: 3 Dec 2019 16:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.2  | 48.5  | 145.5 |
| 145     | 38.8  | 16.1  | 48.2  |

