

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050119\  
 Data File : VN055323.D  
 Acq On : 1 May 2019 12:37  
 Operator : JC/SP  
 Sample : K2204-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TR-04-043019

Quant Time: May 02 01:49:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 30 07:16:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 338306   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 590478   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 547673   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 163511   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 241857   | 54.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.30% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 194476   | 50.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.36% |      |
| 50) Toluene-d8            | 10.09  | 98  | 741791   | 53.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.02% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 232635   | 53.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.38% |      |

## Target Compounds

|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 16) Acetone                    | 3.82  | 43  | 29732  | 21.560    | ug/l   | 90     |
| 17) Carbon Disulfide           | 4.05  | 76  | 2589   | 0.297     | ug/l # | 76     |
| 18) Methyl Acetate             | 4.33  | 43  | 6339   | 0.869     | ug/l # | 81     |
| 20) Methylene Chloride         | 4.55  | 84  | 76377  | 18.145    | ug/l   | 96     |
| 25) 2-Butanone                 | 6.85  | 43  | 3108   | 1.762     | ug/l   | 91     |
| 29) Tetrahydrofuran            | 7.22  | 42  | 835    | 0.739     | ug/l # | 81     |
| 30) Chloroform                 | 7.38  | 83  | 5262   | 0.758     | ug/l   | 88     |
| 31) Cyclohexane                | 7.67  | 56  | 7335   | 1.054     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 27229  | 4.814     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.66  | 117 | 32857  | 6.022     | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.19  | 41  | 138    | 0.798     | ug/l # | 22     |
| 43) Isopropyl Acetate          | 8.17  | 43  | 14048  | 2.017     | ug/l # | 95     |
| 45) 1,2-Dichloropropane        | 9.26  | 63  | 1327   | 0.276     | ug/l # | 45     |
| 47) Bromodichloromethane       | 9.41  | 83  | 1318   | 0.234     | ug/l # | 84     |
| 48) Methyl methacrylate        | 9.18  | 41  | 8616   | 2.516     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 9.28  | 88  | 63     | 1.780     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43  | 4391   | 1.120     | ug/l   | 98     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75  | 50009  | 8.194     | ug/l # | 67     |
| 56) Ethyl methacrylate         | 10.54 | 69  | 997    | 0.228     | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.76 | 76  | 9934   | 1.594     | ug/l # | 43     |
| 58) 2-Chloroethyl Vinyl ether  | 9.90  | 63  | 120    | 12.489    | ug/l # | 52     |
| 59) 2-Hexanone                 | 10.76 | 43  | 170080 | 69.308    | ug/l # | 55     |
| 68) m/p-Xylenes                | 11.62 | 106 | 3080   | 0.446     | ug/l   | 86     |
| 71) Bromoform                  | 12.40 | 173 | 2231   | 0.959     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.26 | 105 | 653    | Below Cal | #      | 72     |
| 74) N-amyl acetate             | 11.88 | 43  | 15369  | 3.662     | ug/l # | 55     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.41 | 83  | 64     | Below Cal | #      | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 121571 | 39.470    | ug/l # | 100    |
| 77) Bromobenzene               | 12.52 | 156 | 187    | Below Cal | #      | 1      |
| 78) n-propylbenzene            | 12.59 | 91  | 3384   | 0.201     | ug/l   | 97     |
| 79) 2-Chlorotoluene            | 12.68 | 91  | 766    | Below Cal | #      | 42     |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105 | 6024   | 0.470     | ug/l   | 99     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 121571 | 140.899   | ug/l # | 7      |
| 83) tert-Butylbenzene          | 13.04 | 119 | 1527   | Below Cal | #      | 63     |

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MSVOA\_N  
ClientSampleId :  
TR-04-043019

Quant Time: May 02 01:49:50 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N042919W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 30 07:16:52 2019  
Response via : Initial Calibration

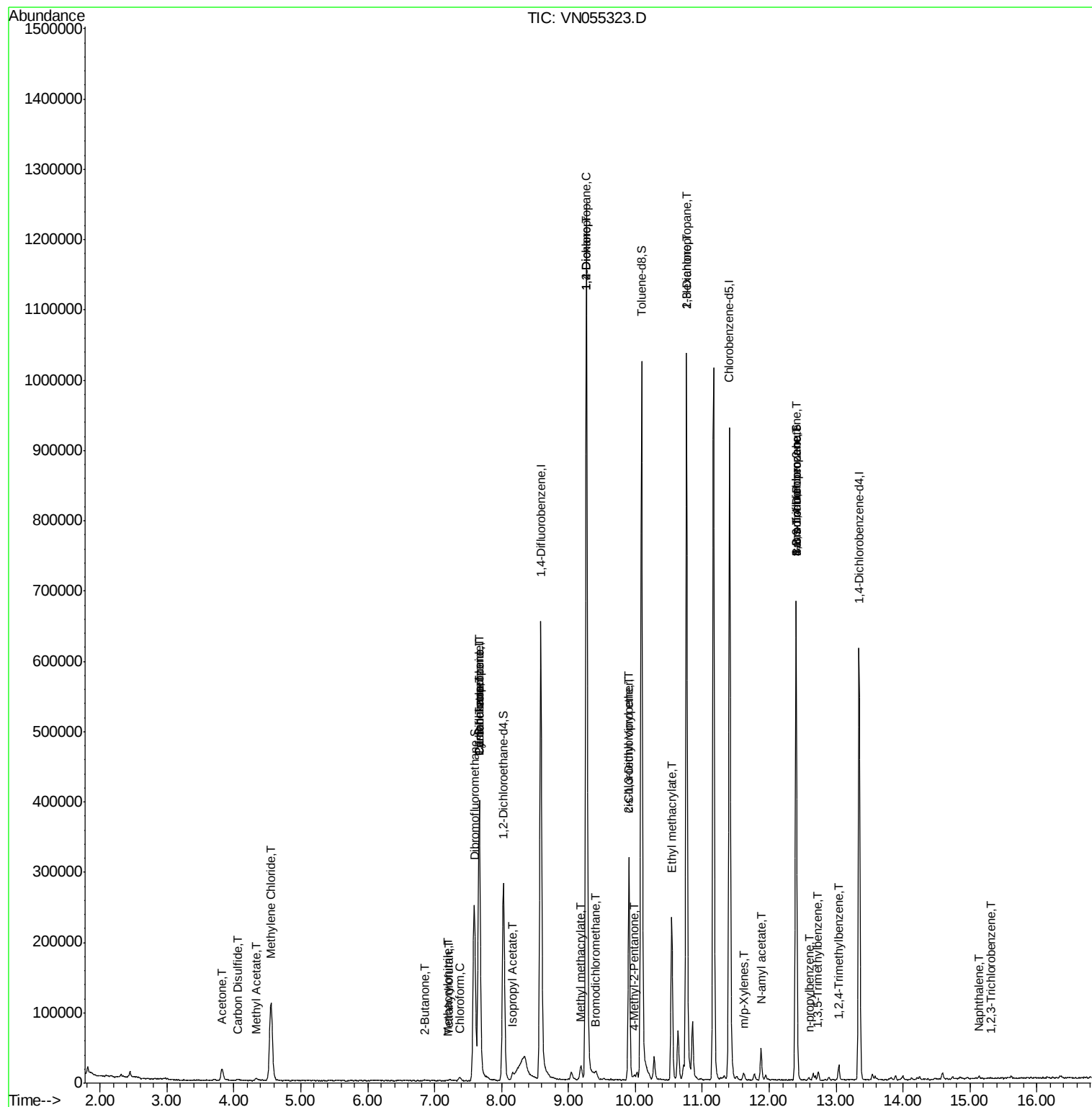
| Internal Standards         | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-----------|--------|----------|
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 12189    | 1.063     | ug/l   | 96       |
| 90) Hexachloroethane       | 13.89 | 117  | 222      | Below Cal | #      | 7        |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 32       | Below Cal | #      | 20       |
| 95) Naphthalene            | 15.14 | 128  | 3317     | 4.010     | ug/l # | 83       |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 102      | 2.659     | ug/l # | 12       |

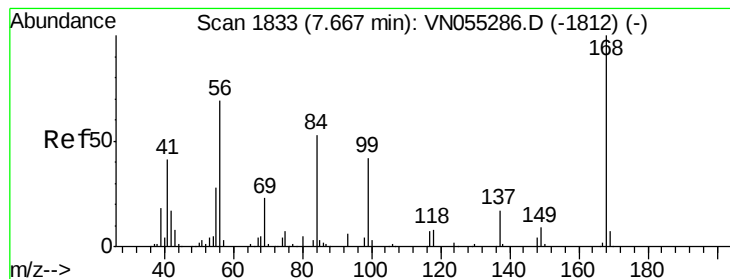
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN050119\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

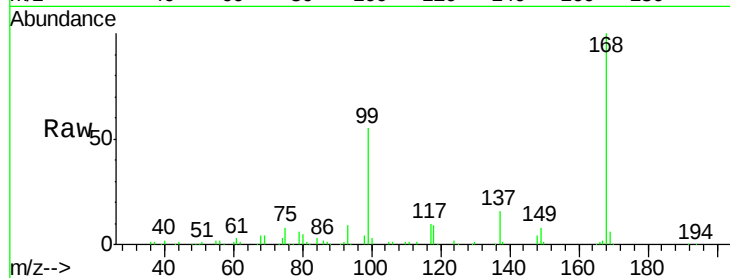
TR-04-043019

Tot Ion:168 Resp: 338306

Ion Ratio Lower Upper

168 100

99 54.7 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

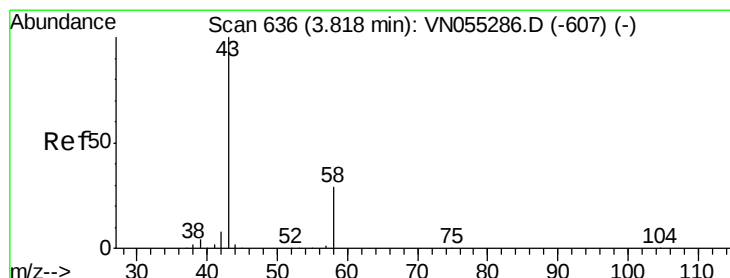
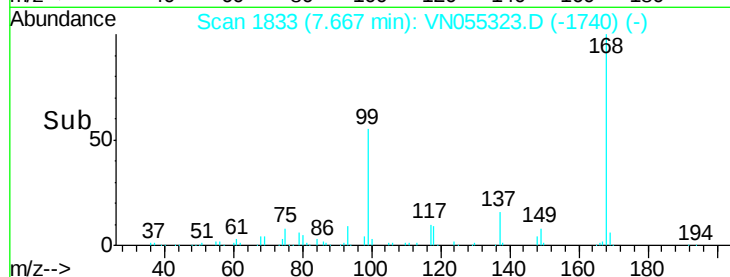
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#16

Acetone

Concen: 21.560 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055323.D

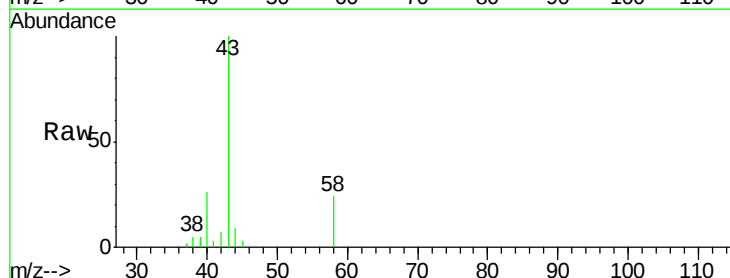
Acq: 1 May 2019 12:37

Tgt Ion: 43 Resp: 29732

Ion Ratio Lower Upper

43 100

58 24.2 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

12000

10000

8000

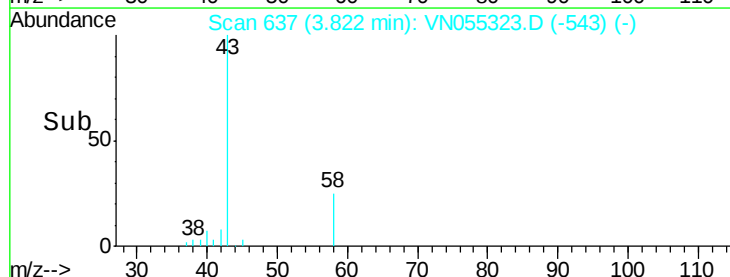
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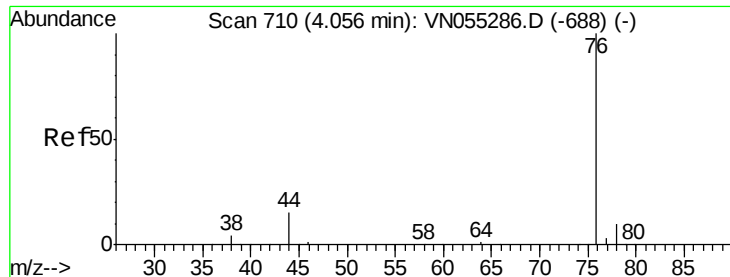
4000

2000

0

Time--> 3.70 3.80 3.90

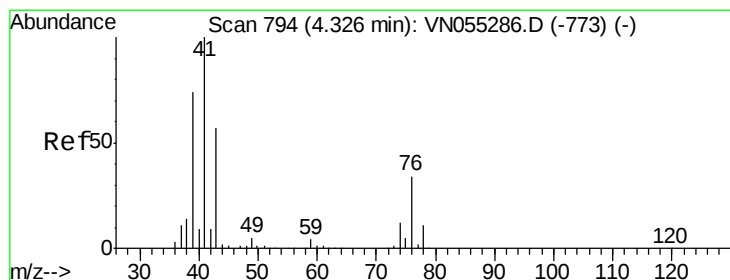
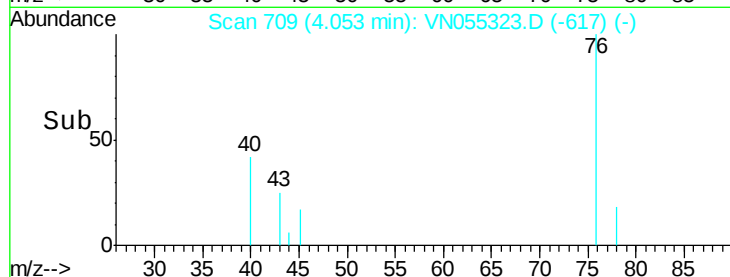
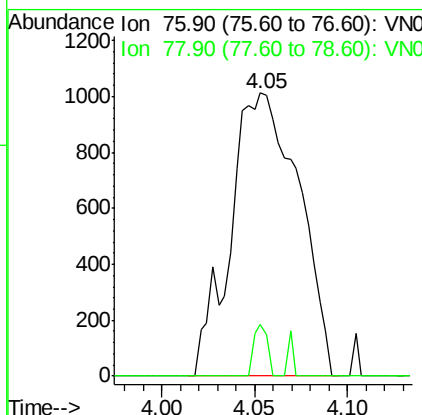
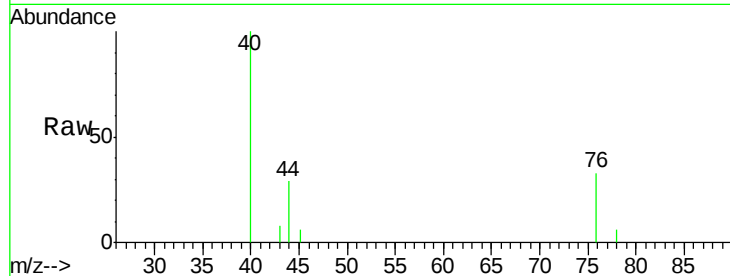




#17  
Carbon Disulfide  
Concen: 0.297 ug/l  
RT: 4.05 min Scan# 709  
Delta R.T. -0.00 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

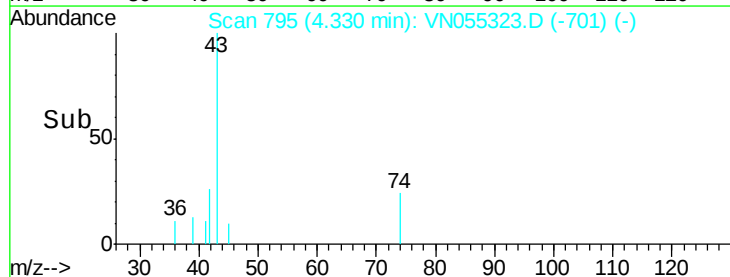
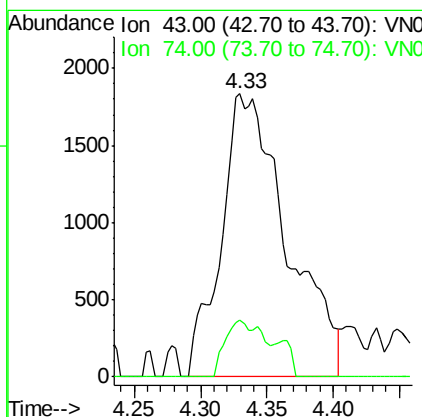
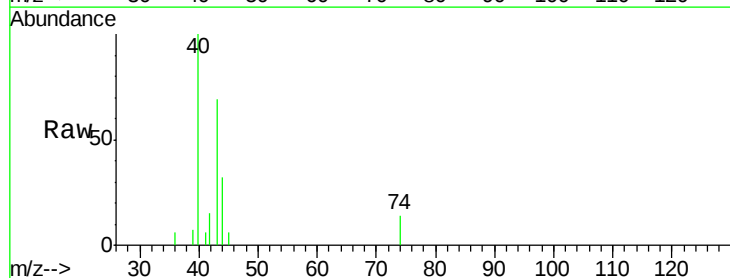
Instrument :  
MSVOA\_N  
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TR-04-043019

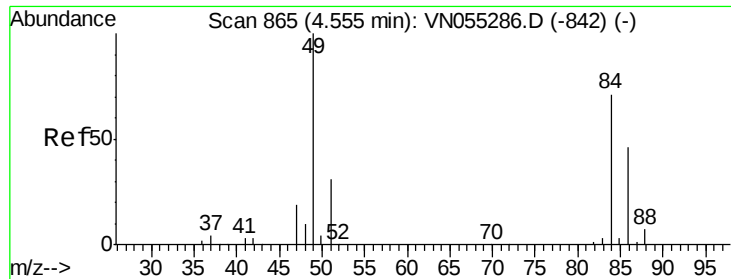
Tot Ion: 76 Resp: 2589  
Ion Ratio Lower Upper  
76 100  
78 18.2 7.6 11.4#



#18  
Methyl Acetate  
Concen: 0.869 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

Tgt Ion: 43 Resp: 6339  
Ion Ratio Lower Upper  
43 100  
74 11.2 15.8 23.8#

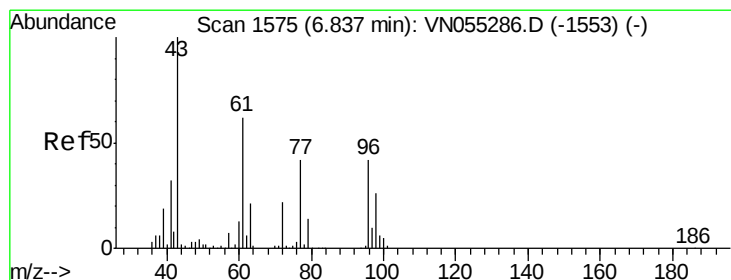
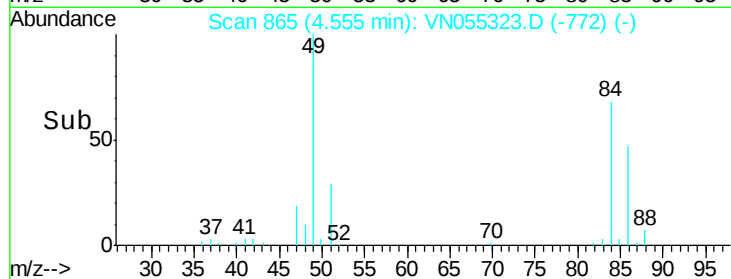
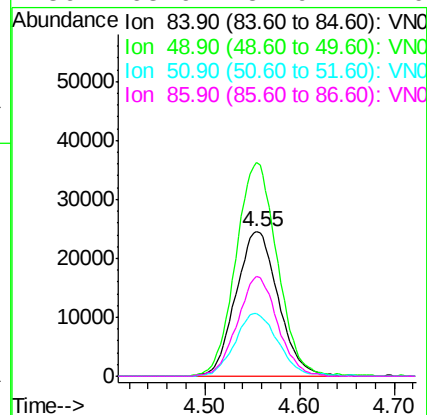
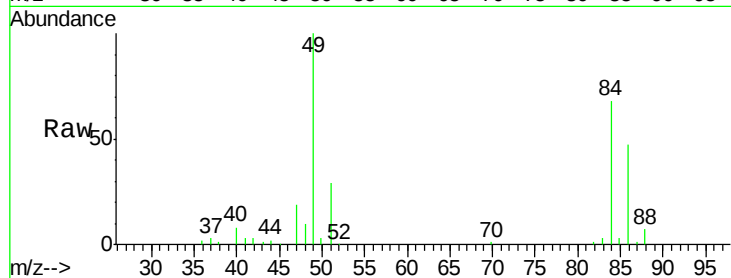




#20  
Methvlene Chloride  
Concen: 18.145 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

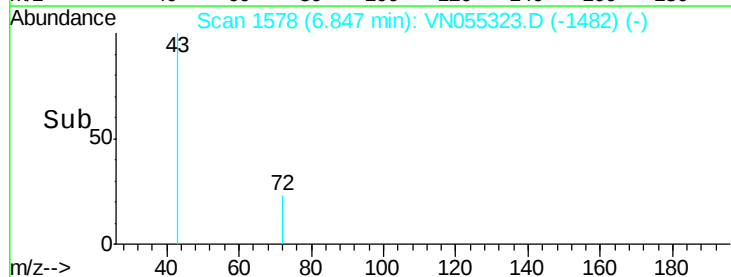
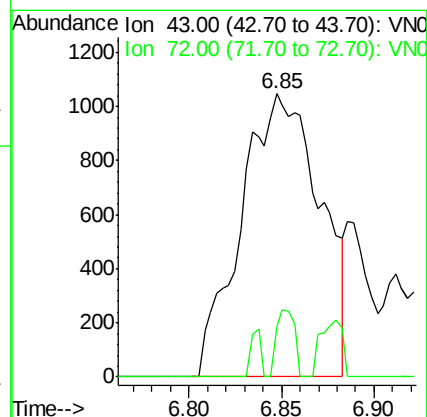
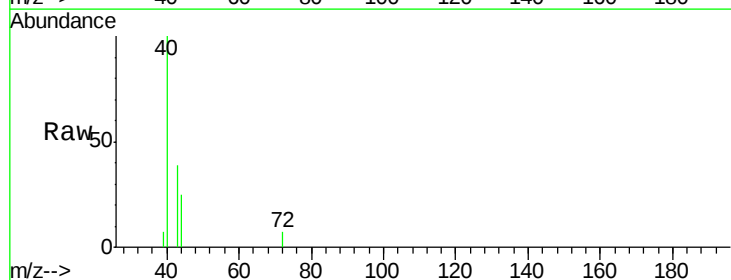
Instrument :  
MSVOA\_N  
ClientSampled :  
TR-04-043019

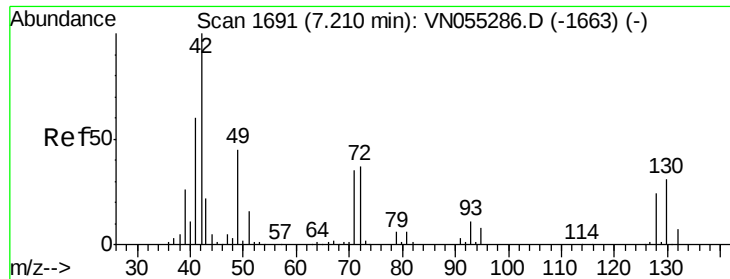
Tot Ion: 84 Resp: 76377  
Ion Ratio Lower Upper  
84 100  
49 146.9 112.4 168.6  
51 43.4 34.6 51.8  
86 68.9 51.9 77.9



#25  
2-Butanone  
Concen: 1.762 ug/l  
RT: 6.85 min Scan# 1578  
Delta R.T. 0.01 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

Tgt Ion: 43 Resp: 3108  
Ion Ratio Lower Upper  
43 100  
72 18.1 18.0 27.0

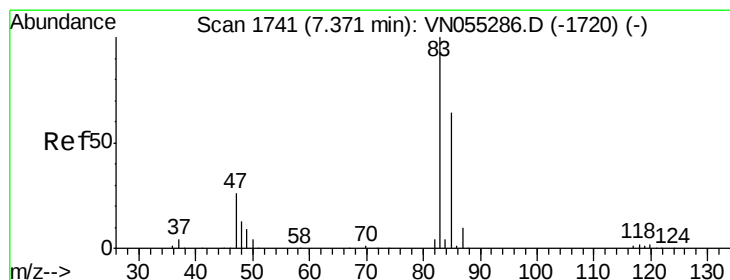
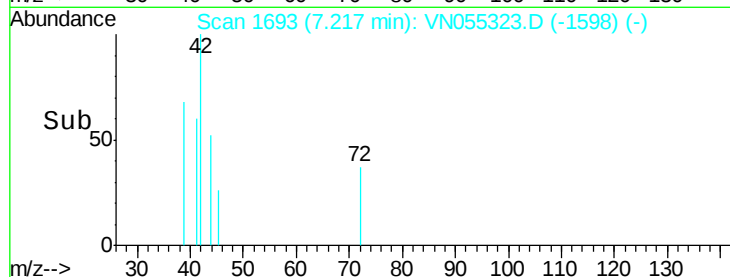
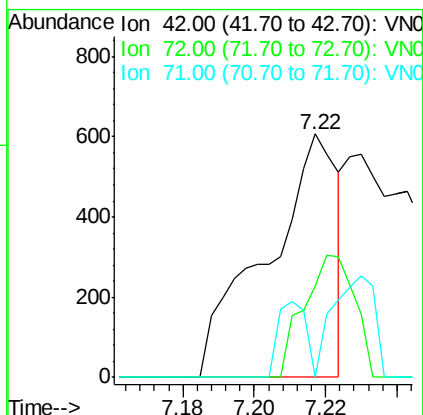
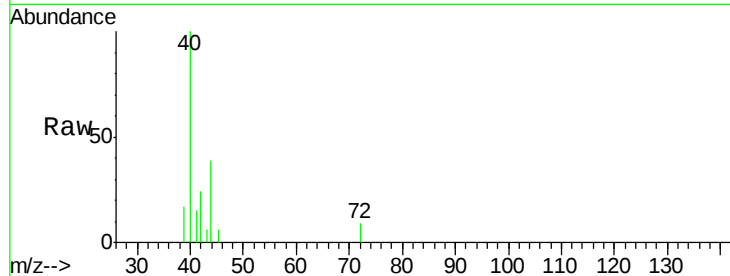




#29  
Tetrahydrofuran  
Concen: 0.739 ug/l  
RT: 7.22 min Scan# 1693  
Delta R.T. 0.01 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

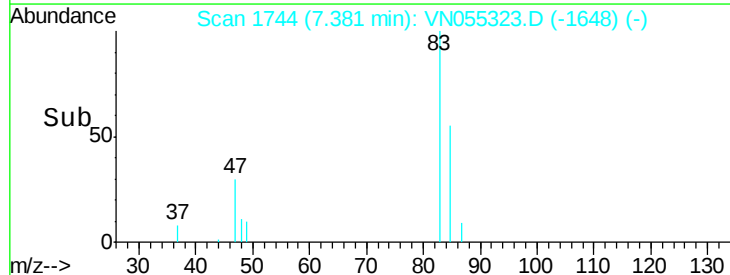
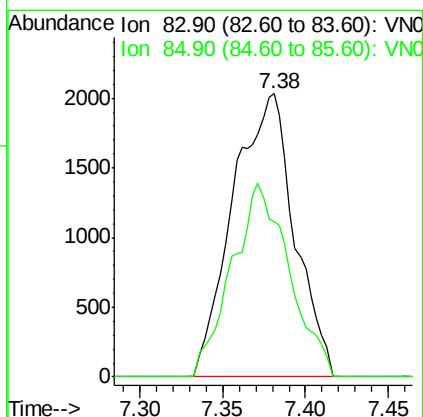
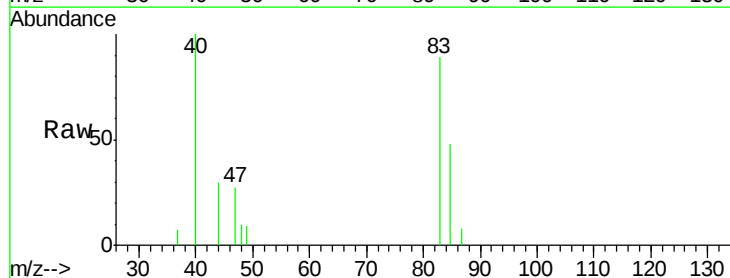
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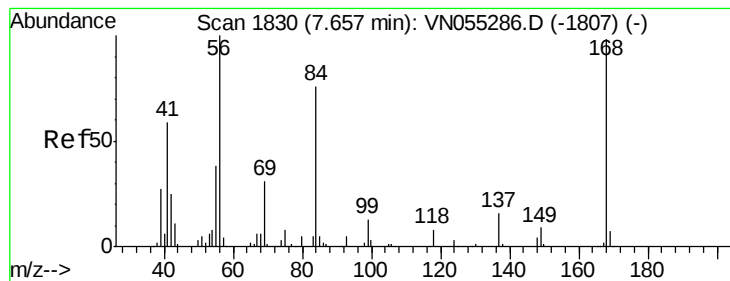
Tot Ion: 42 Resp: 835  
Ion Ratio Lower Upper  
42 100  
72 35.7 29.0 43.6  
71 12.1 27.1 40.7#



#30  
Chloroform  
Concen: 0.758 ug/l  
RT: 7.38 min Scan# 1744  
Delta R.T. 0.01 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

Tgt Ion: 83 Resp: 5262  
Ion Ratio Lower Upper  
83 100  
85 54.8 51.4 77.2





#31

Cyclohexane

Concen: 1.054 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

TR-04-043019

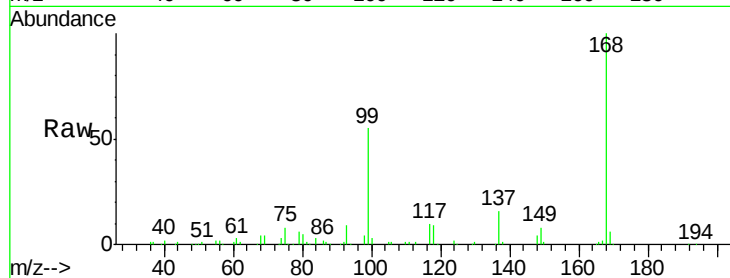
Tot Ion: 56 Resp: 7335

Ion Ratio Lower Upper

56 100

69 173.0 25.2 37.8#

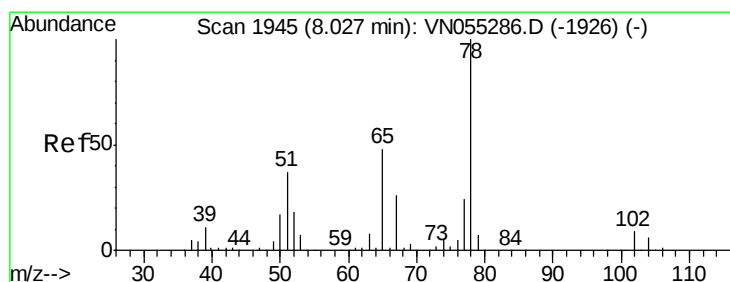
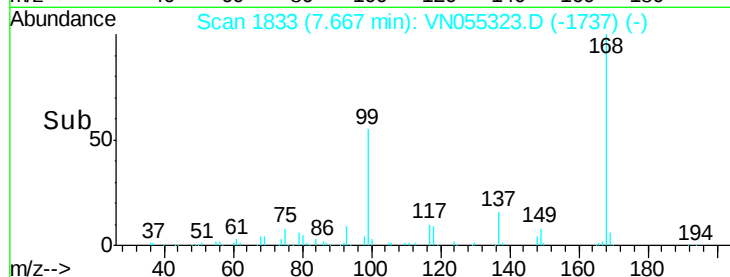
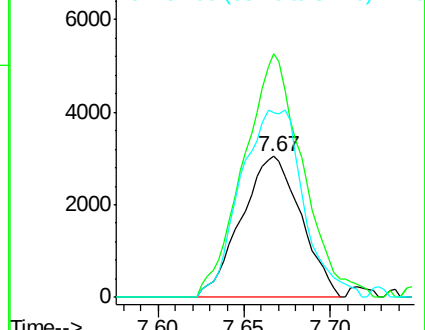
84 131.3 61.1 91.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.647 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055323.D

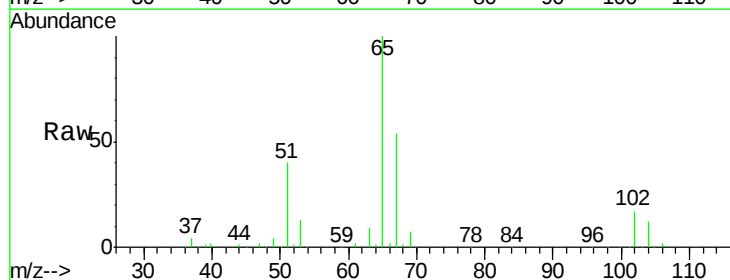
Acq: 1 May 2019 12:37

Tgt Ion: 65 Resp: 241857

Ion Ratio Lower Upper

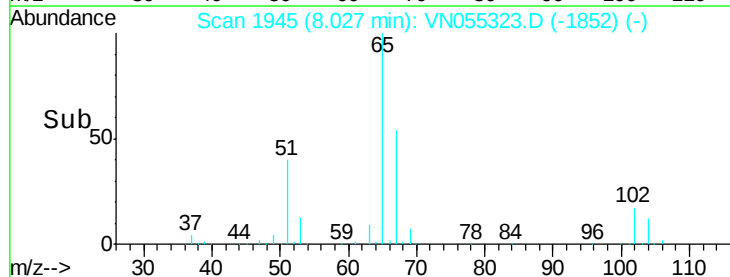
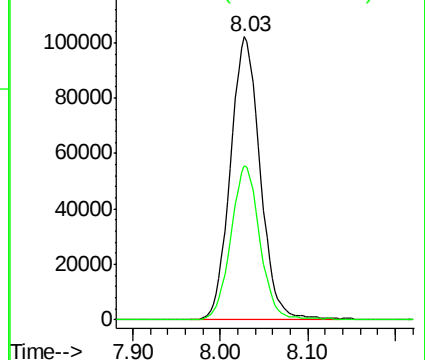
65 100

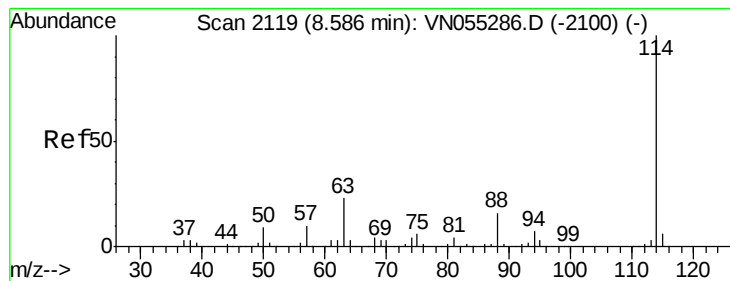
67 52.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

TR-04-043019

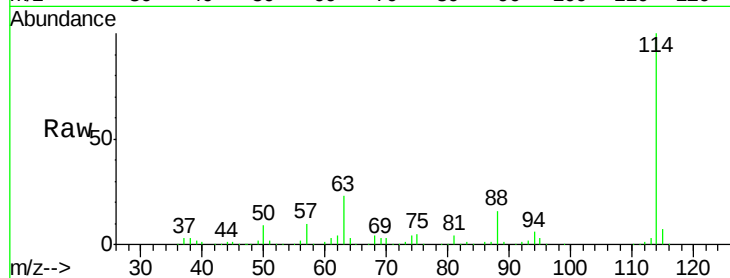
Tot Ion:114 Resp: 590478

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.2

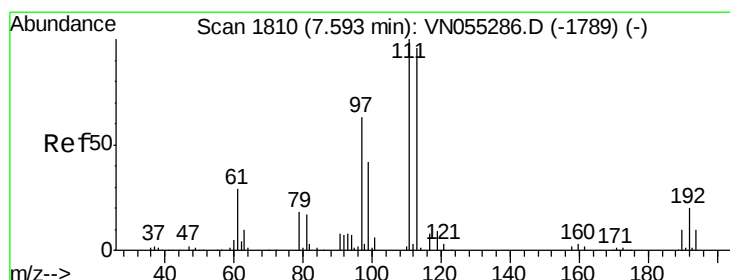
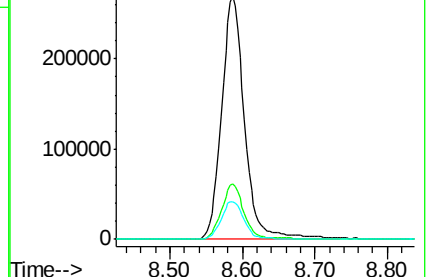
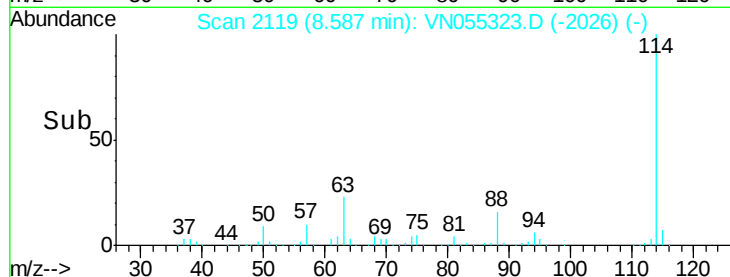
88 15.6 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.178 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

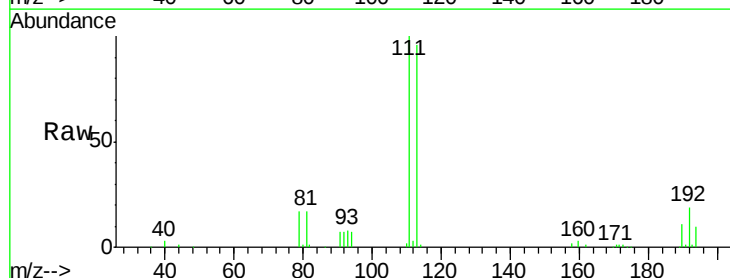
Tgt Ion:113 Resp: 194476

Ion Ratio Lower Upper

113 100

111 103.6 82.3 123.5

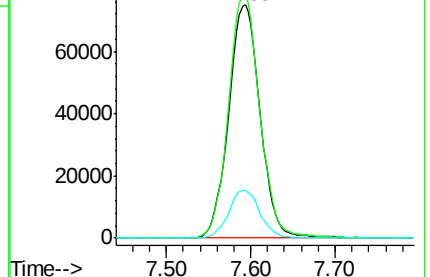
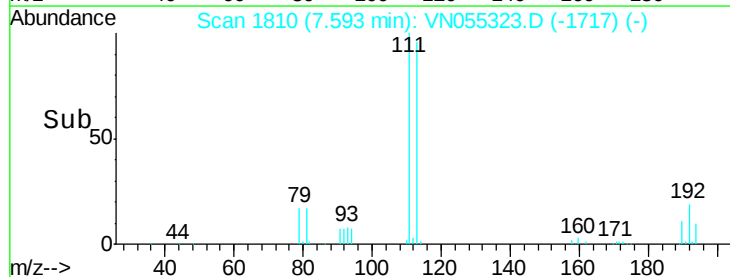
192 20.3 17.0 25.6

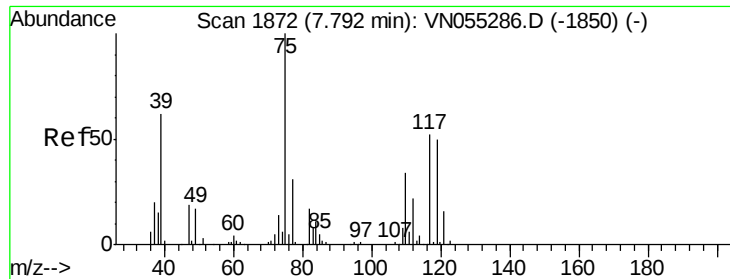


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

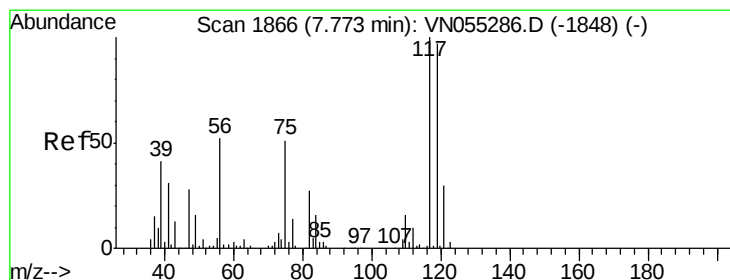
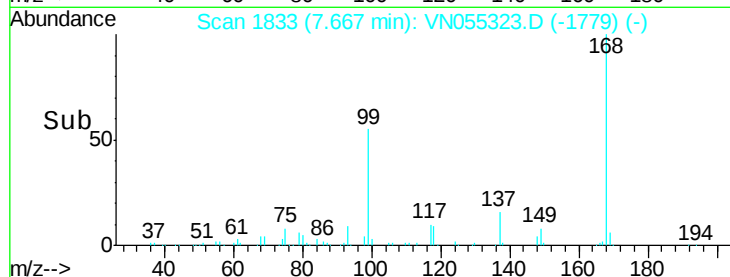
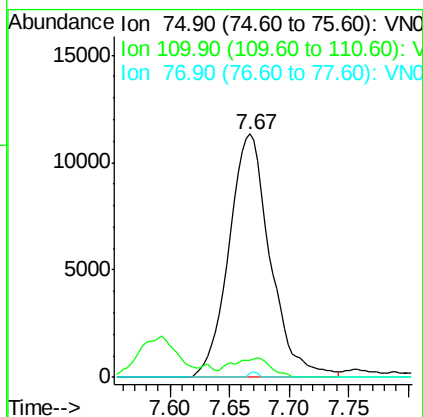
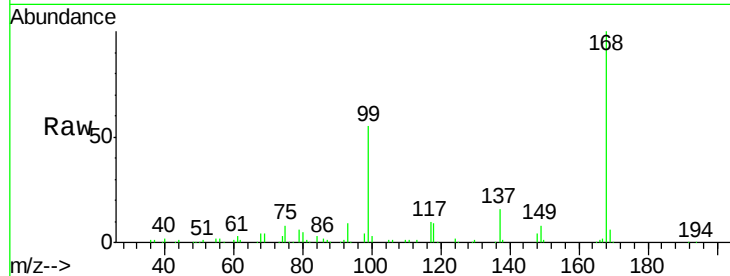




#36  
 1,1-Dichloropropene  
 Concen: 4.814 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN055323.D  
 Acq: 1 May 2019 12:37

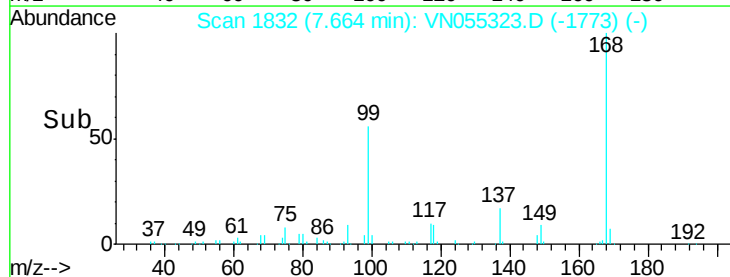
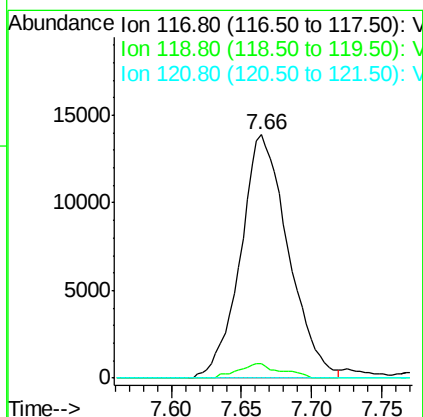
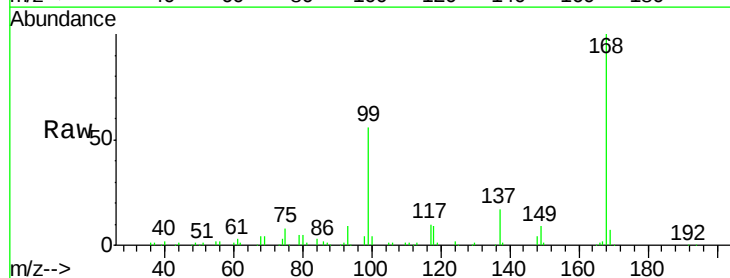
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TR-04-043019

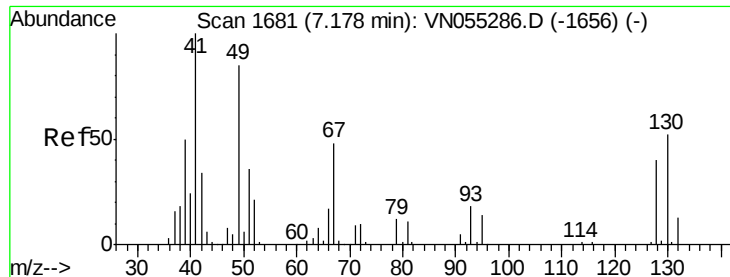
Tot Ion: 75 Resp: 27229  
 Ion Ratio Lower Upper  
 75 100  
 110 7.7 16.8 50.4#  
 77 0.4 25.0 37.6#



#38  
 Carbon Tetrachloride  
 Concen: 6.022 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN055323.D  
 Acq: 1 May 2019 12:37

Tgt Ion: 117 Resp: 32857  
 Ion Ratio Lower Upper  
 117 100  
 119 6.0 77.0 115.6#  
 121 0.0 23.8 35.8#





#41

Methacrylonitrile

Concen: 0.798 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.02 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampled :

TR-04-043019

Tot Ion: 41 Resp: 138

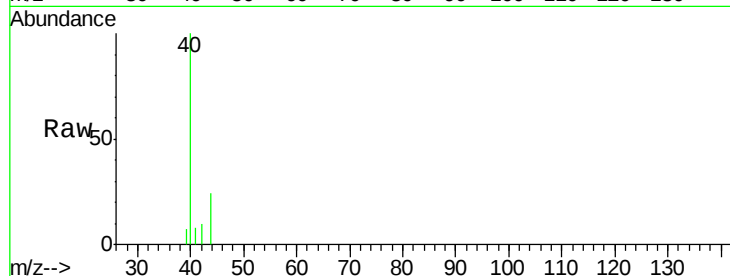
Ion Ratio Lower Upper

41 100

39 121.7 48.5 72.7#

67 0.0 54.9 82.3#

52 0.0 24.9 37.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO

500

400

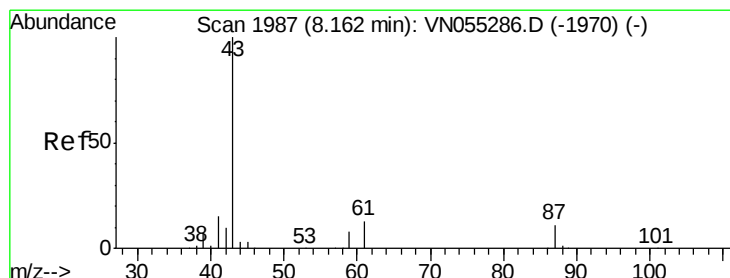
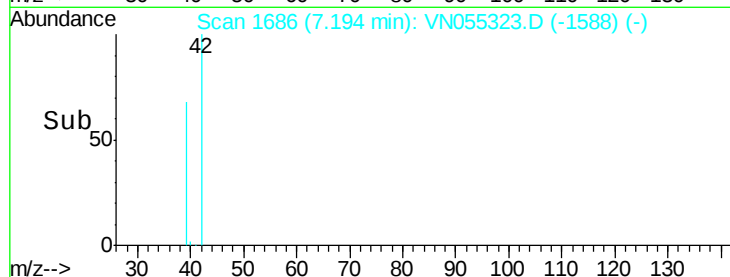
300

200

100

0

Time-->



#43

Isopropyl Acetate

Concen: 2.017 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

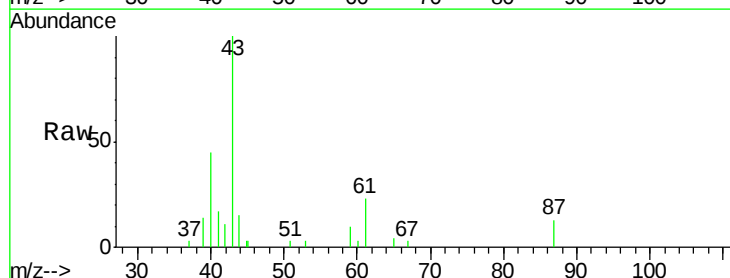
Tgt Ion: 43 Resp: 14048

Ion Ratio Lower Upper

43 100

61 23.8 20.8 31.2

87 13.3 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

8000

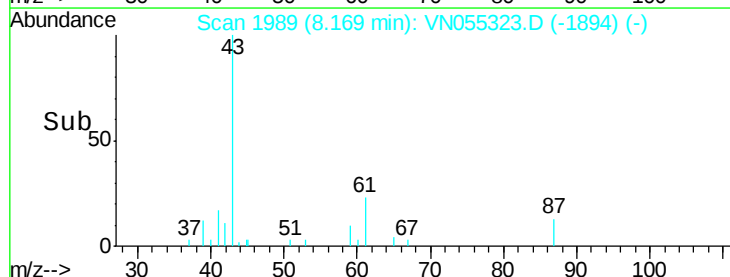
6000

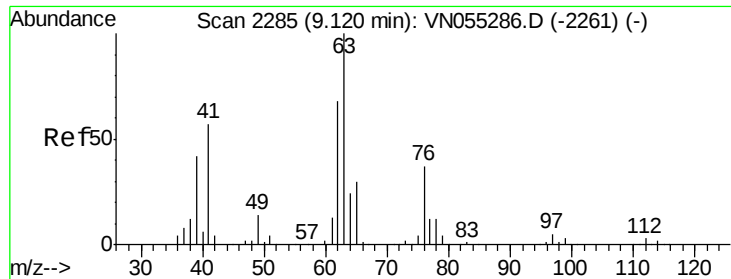
4000

2000

0

Time-->





#45

1,2-Dichloropropane

Concen: 0.276 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

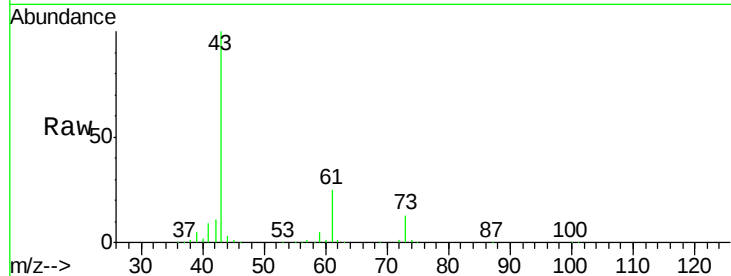
TR-04-043019

Tot Ion: 63 Resp: 1327

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

800

600

400

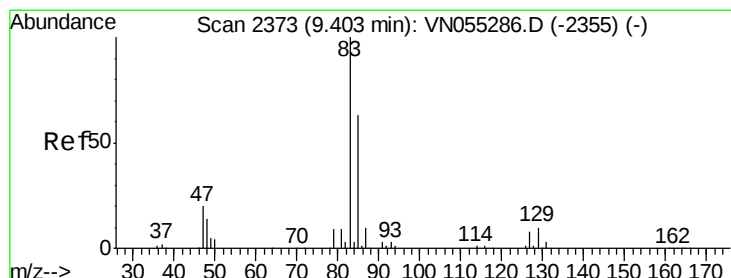
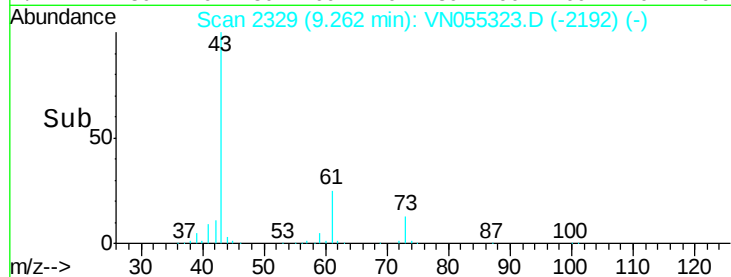
200

0

9.25

9.30

Time-->



#47

Bromodichloromethane

Concen: 0.234 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

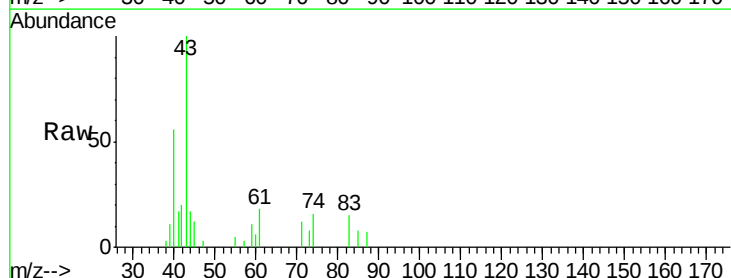
Tgt Ion: 83 Resp: 1318

Ion Ratio Lower Upper

83 100

85 50.8 50.1 75.1

127 0.0 6.7 10.1#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

1000

800

600

400

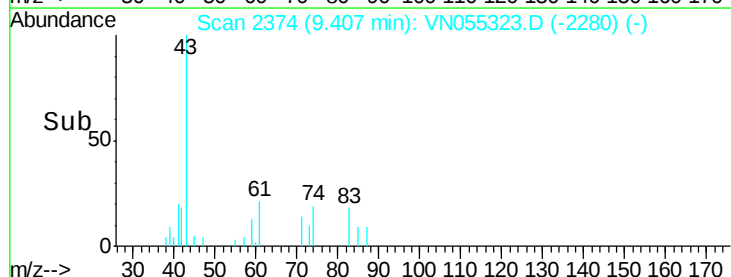
200

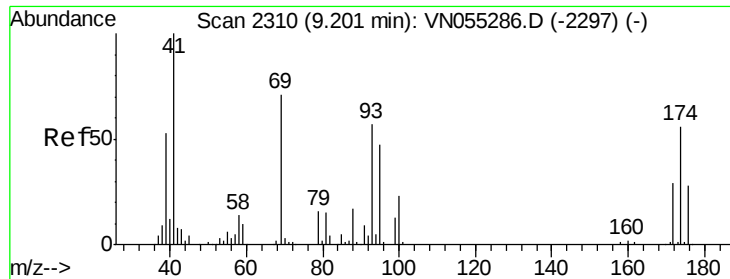
0

9.40

9.45

Time-->

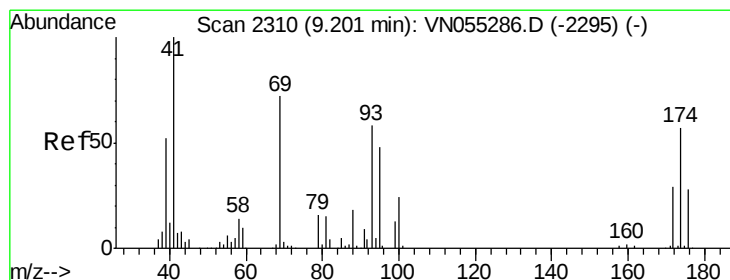
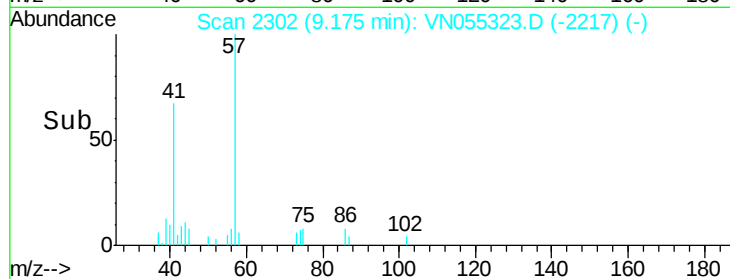
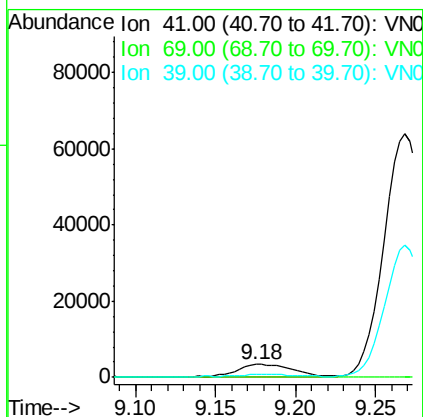
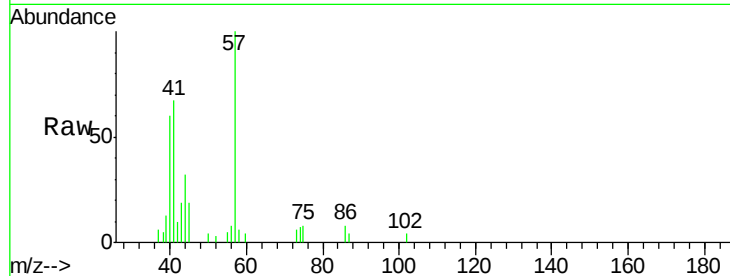




#48  
Methvl methacrylate  
Concen: 2.516 ug/l  
RT: 9.18 min Scan# 2302  
Delta R.T. -0.03 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

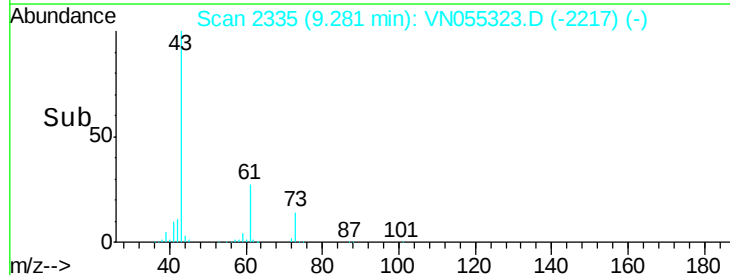
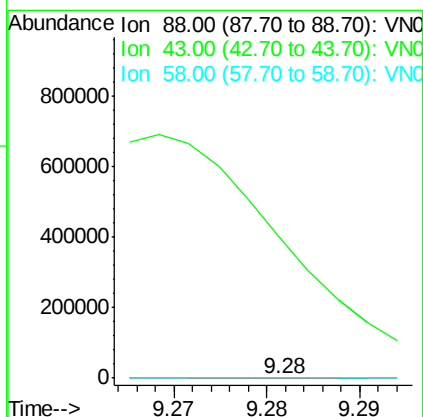
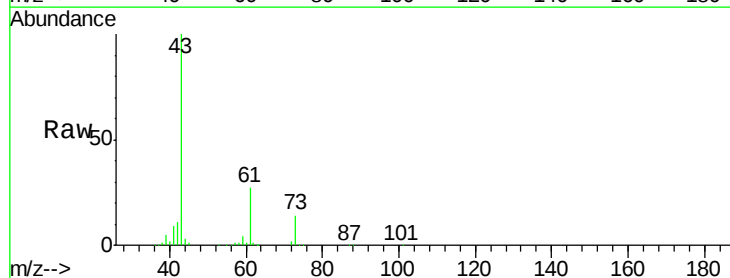
Instrument :  
MSVOA\_N  
ClientSampleId :  
TR-04-043019

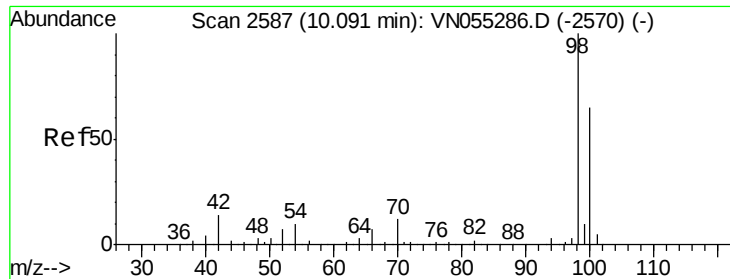
Tot Ion: 41 Resp: 8616  
Ion Ratio Lower Upper  
41 100  
69 0.0 58.6 87.8#  
39 0.0 43.8 65.6#



#49  
1,4-Dioxane  
Concen: 1.780 ug/l  
RT: 9.28 min Scan# 2335  
Delta R.T. 0.08 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

Tgt Ion: 88 Resp: 63  
Ion Ratio Lower Upper  
88 100  
43 2082911.1 33.3 49.9#  
58 10023.8 62.7 94.1#





#50

Toluene-d8

Concen: 53.005 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

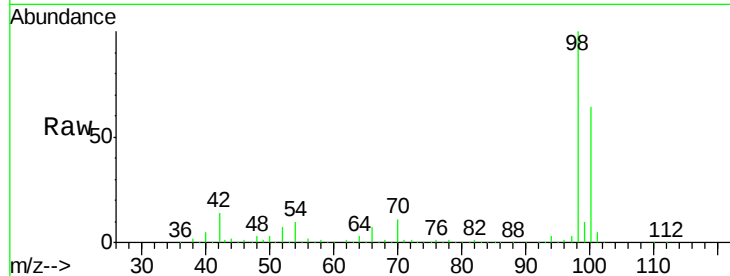
TR-04-043019

Tot Ion: 98 Resp: 741791

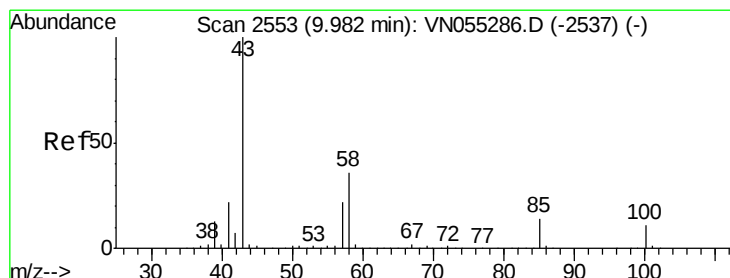
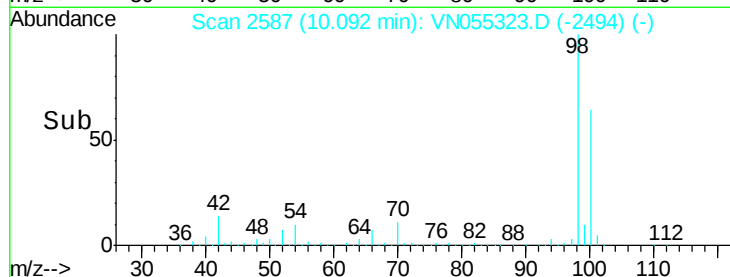
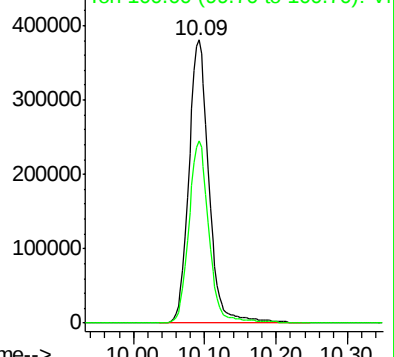
Ion Ratio Lower Upper

98 100

100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN055286.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.120 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN055323.D

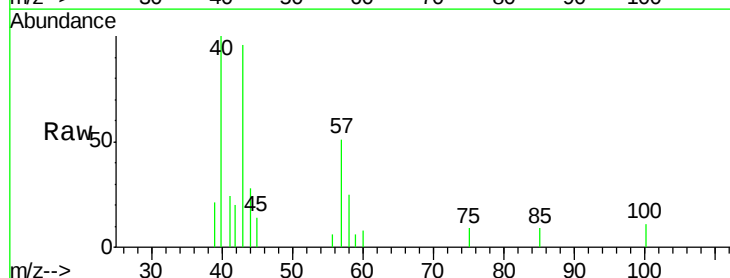
Acq: 1 May 2019 12:37

Tgt Ion: 43 Resp: 4391

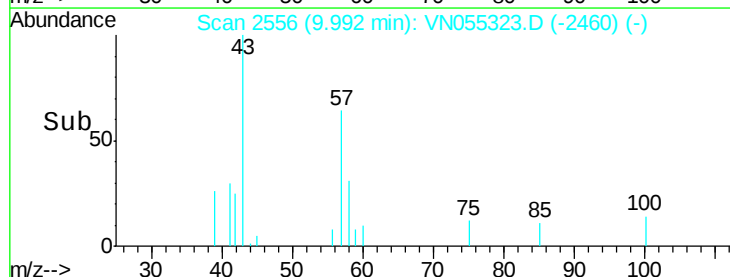
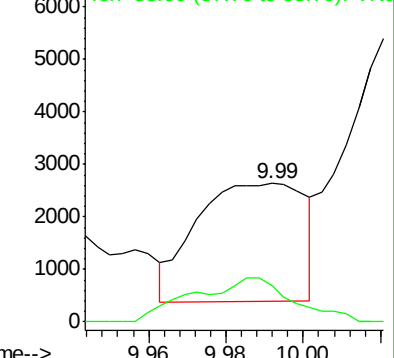
Ion Ratio Lower Upper

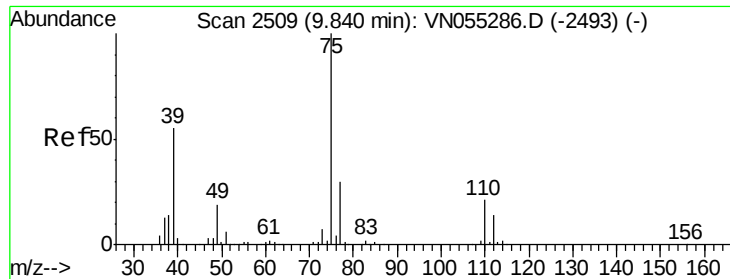
43 100

58 34.2 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VN055286.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 8.194 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

TR-04-043019

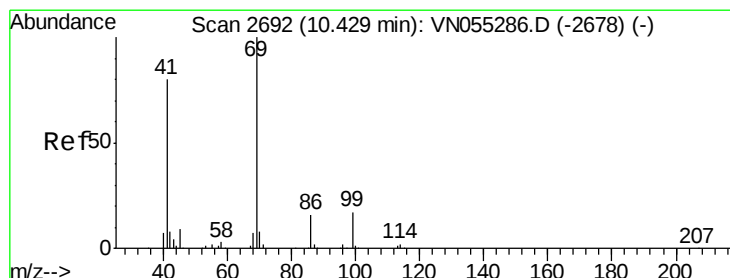
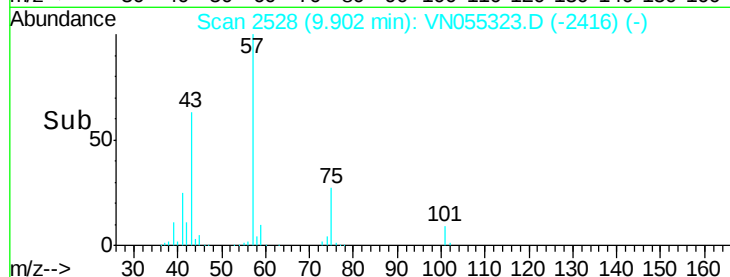
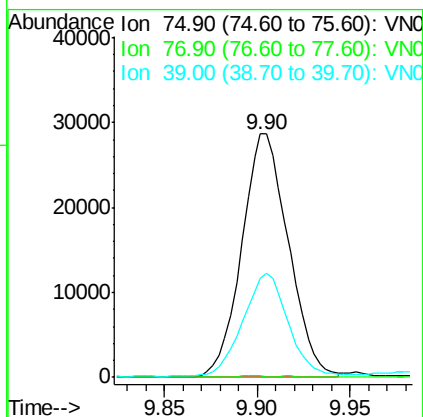
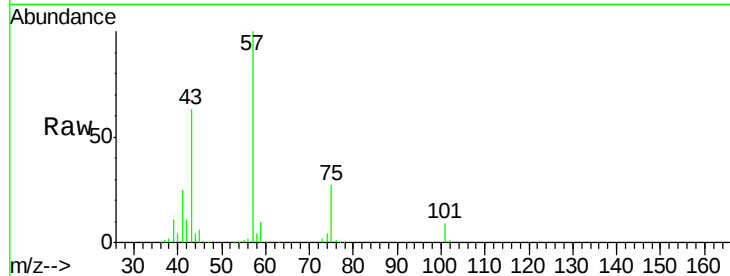
Tot Ion: 75 Resp: 50009

Ion Ratio Lower Upper

75 100

77 0.6 24.2 36.2#

39 40.0 44.2 66.2#



#56

Ethyl methacrylate

Concen: 0.228 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

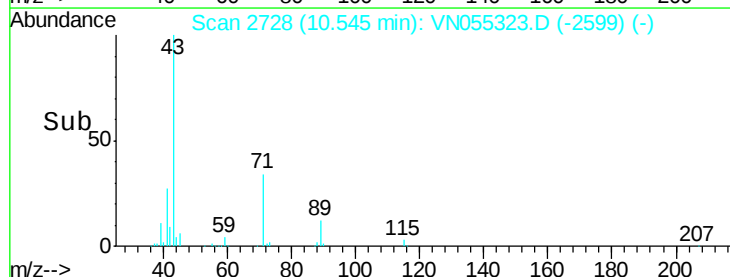
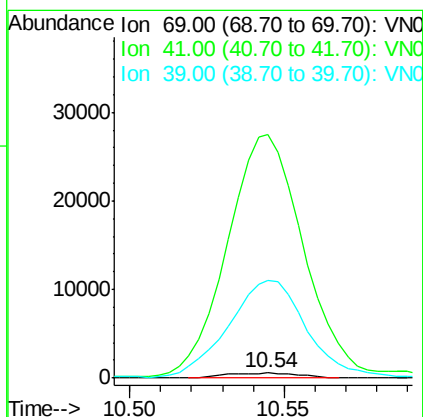
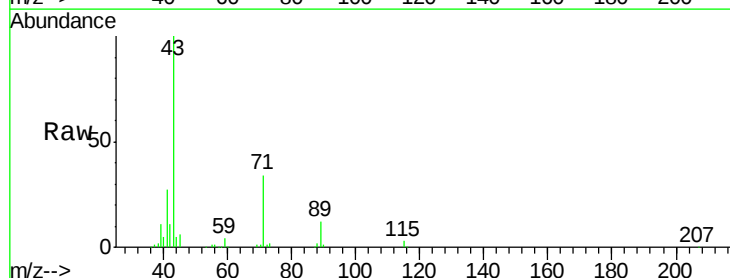
Tgt Ion: 69 Resp: 997

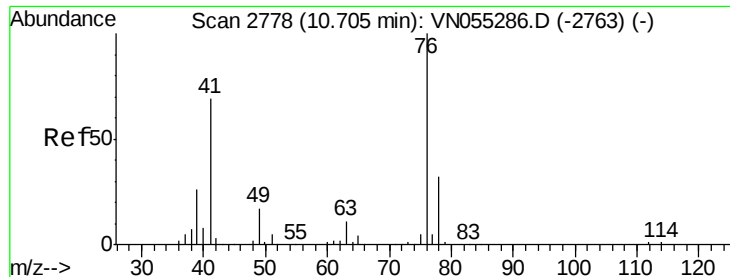
Ion Ratio Lower Upper

69 100

41 4844.6 62.7 94.1#

39 1961.1 32.0 48.0#

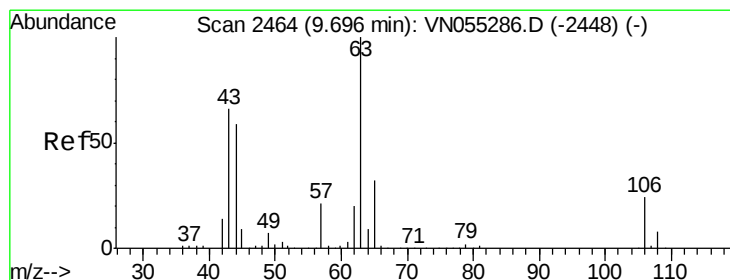
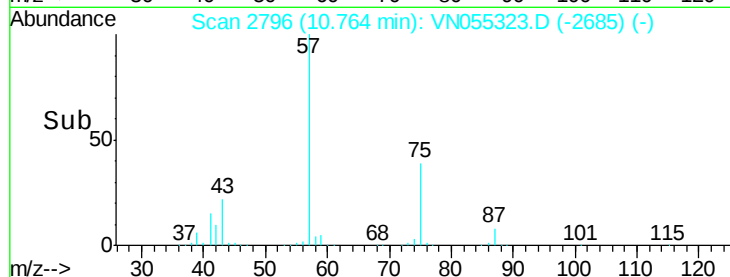
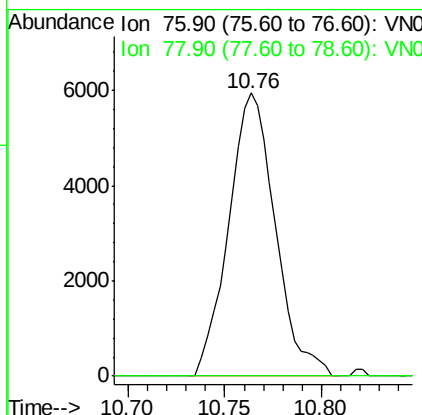
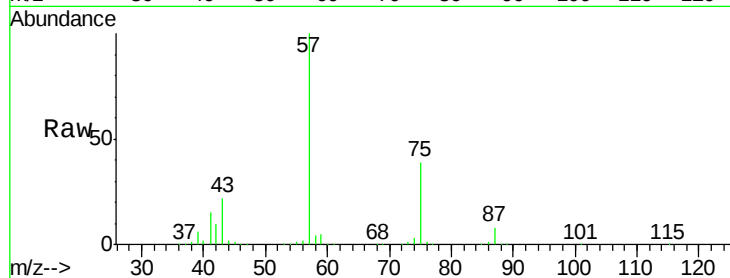




#57  
 1,3-Dichloropropane  
 Concen: 1.594 ug/l  
 RT: 10.76 min Scan# 2796  
 Delta R.T. 0.06 min  
 Lab File: VN055323.D  
 Acq: 1 May 2019 12:37

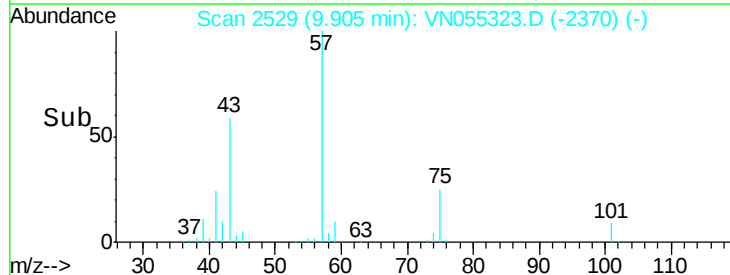
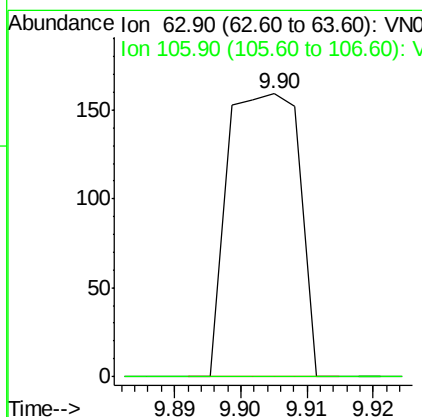
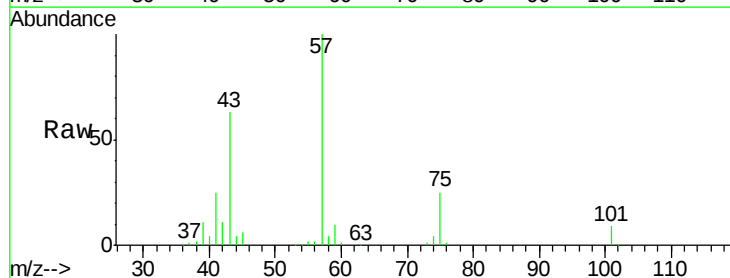
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TR-04-043019

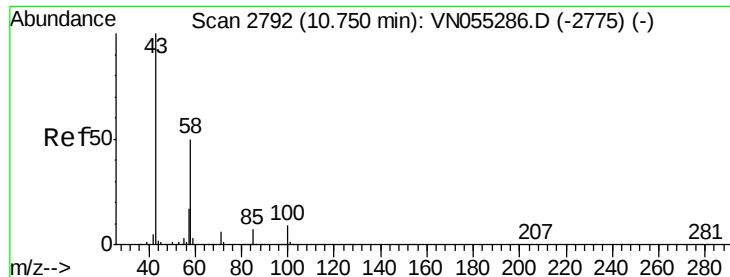
Tot Ion: 76 Resp: 9934  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.6 38.4#



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 12.489 ug/l  
 RT: 9.90 min Scan# 2529  
 Delta R.T. 0.21 min  
 Lab File: VN055323.D  
 Acq: 1 May 2019 12:37

Tgt Ion: 63 Resp: 120  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 19.0 28.4#





#59

2-Hexanone

Concen: 69.308 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampled :

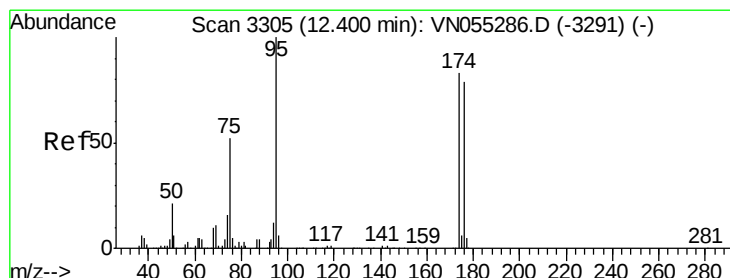
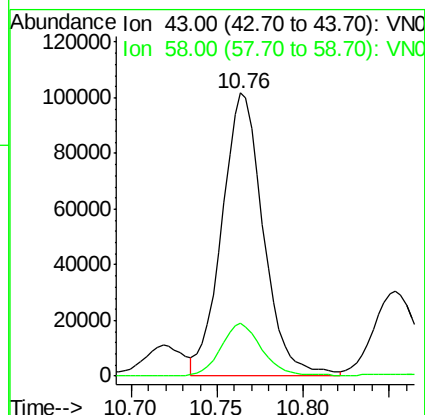
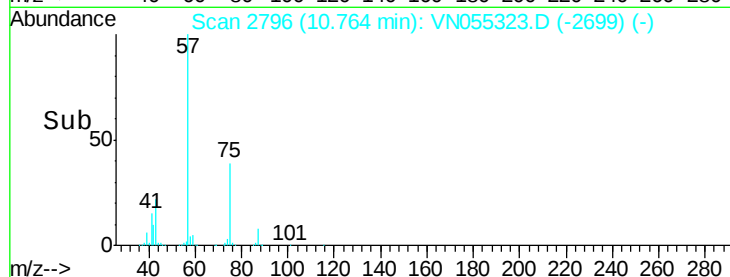
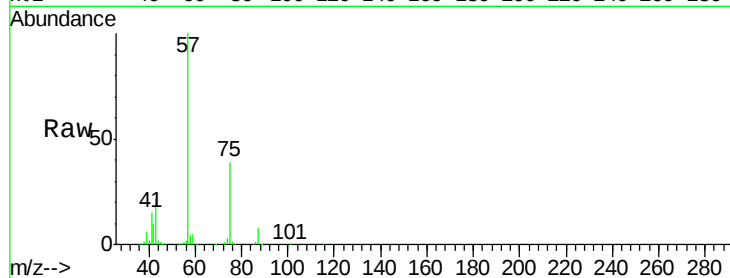
TR-04-043019

Tot Ion: 43 Resp: 170080

Ion Ratio Lower Upper

43 100

58 18.9 24.9 74.6#



#62

4-Bromofluorobenzene

Concen: 53.188 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

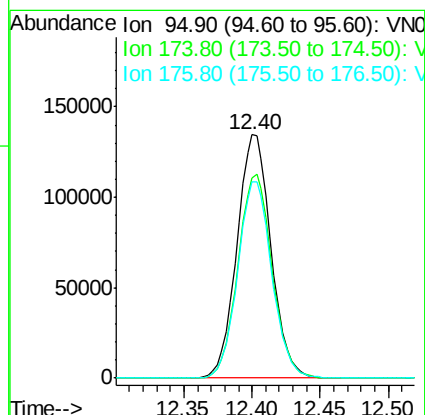
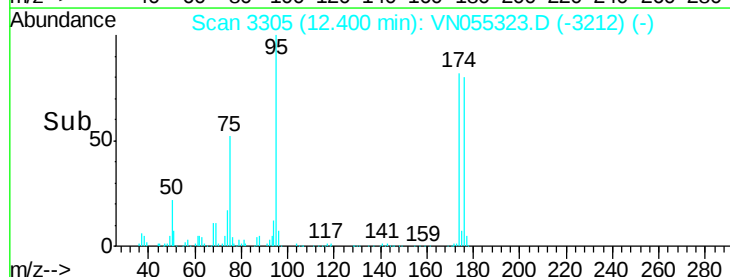
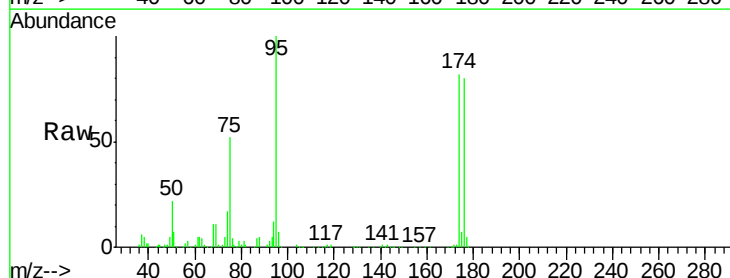
Tgt Ion: 95 Resp: 232635

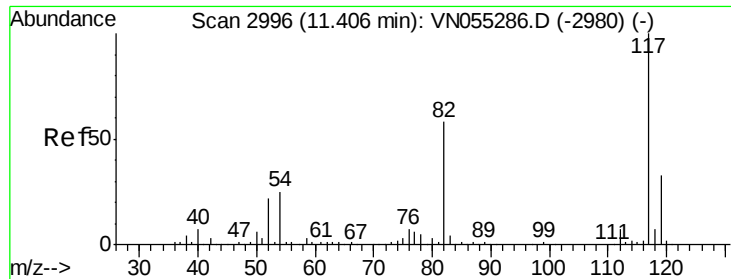
Ion Ratio Lower Upper

95 100

174 84.2 0.0 166.6

176 81.0 0.0 157.8

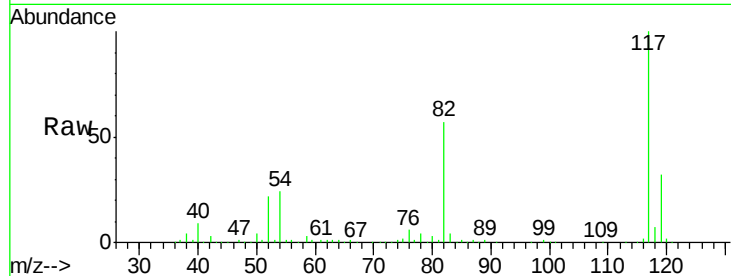




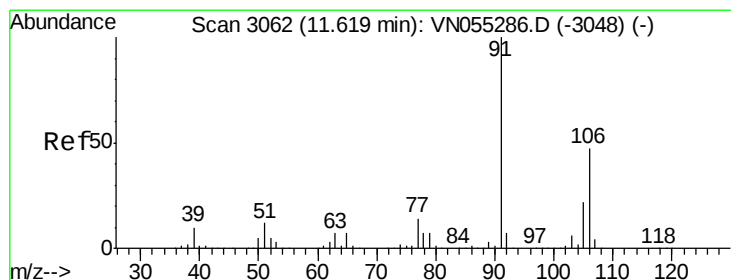
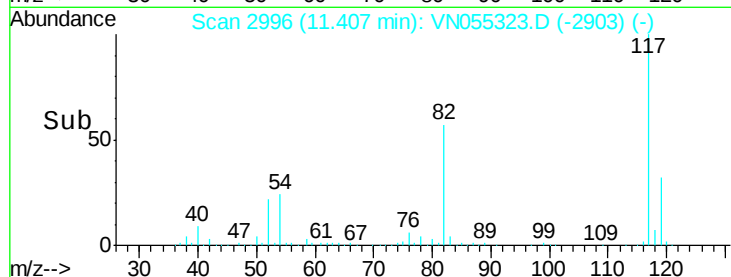
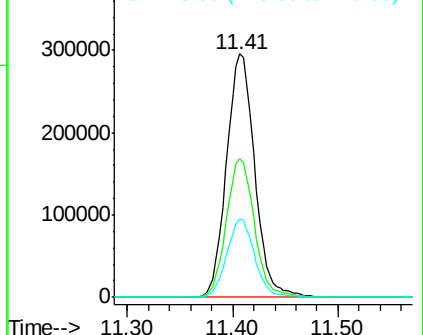
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
TR-04-043019

Tot Ion:117 Resp: 547673  
Ion Ratio Lower Upper  
117 100  
82 57.1 46.2 69.4  
119 32.3 26.6 40.0

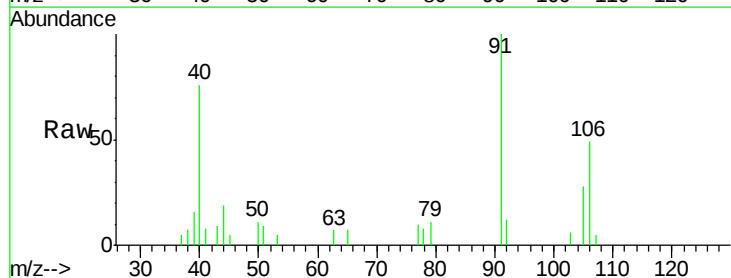


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 118.90 (118.60 to 119.60): V

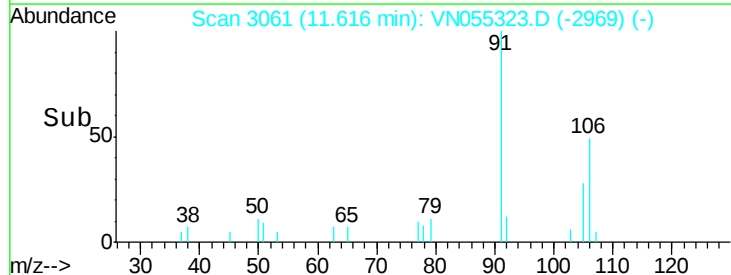
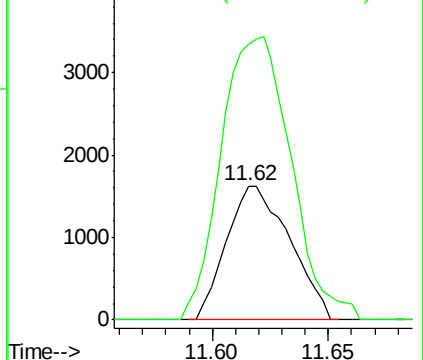


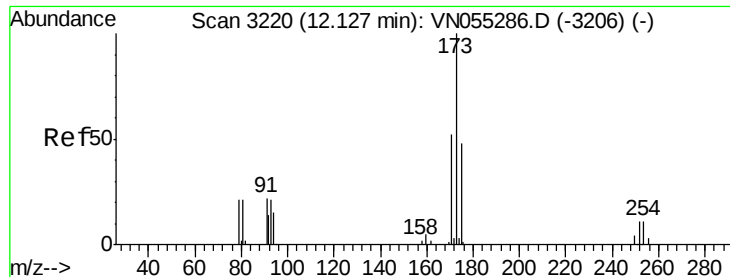
#68  
m/p-Xylenes  
Concen: 0.446 ug/l  
RT: 11.62 min Scan# 3061  
Delta R.T. -0.00 min  
Lab File: VN055323.D  
Acq: 1 May 2019 12:37

Tgt Ion:106 Resp: 3080  
Ion Ratio Lower Upper  
106 100  
91 233.5 169.5 254.3



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.959 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

TR-04-043019

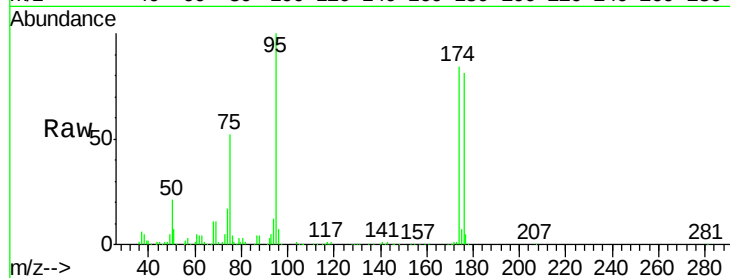
Tot Ion:173 Resp: 2231

Ion Ratio Lower Upper

173 100

175 615.0 23.6 71.0#

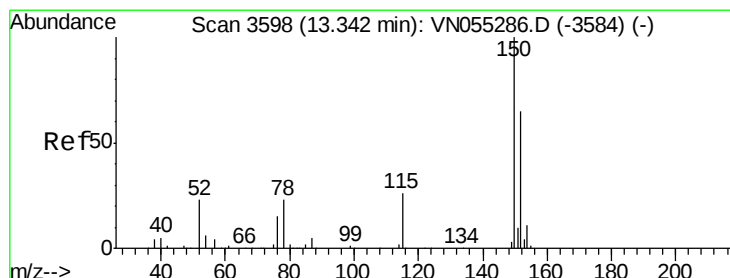
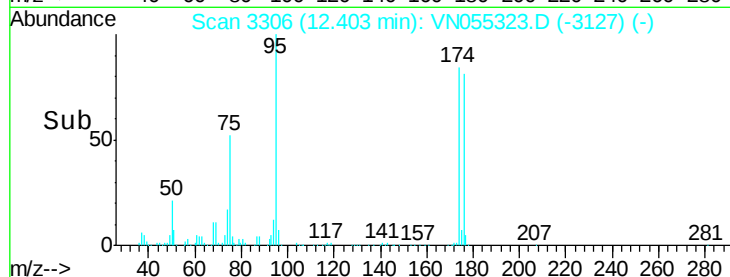
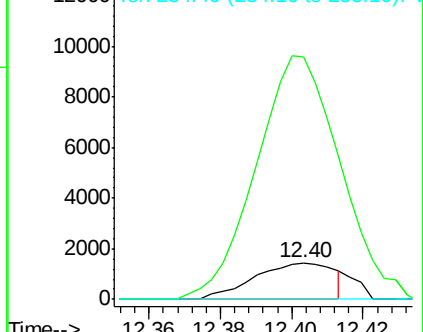
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

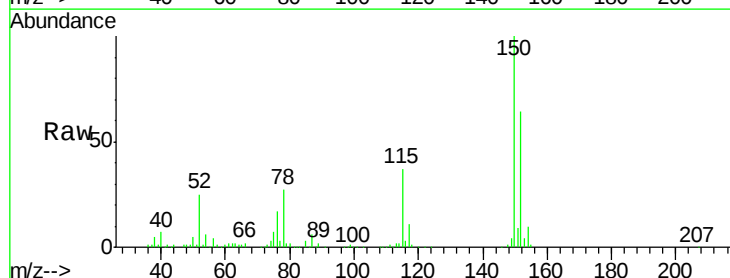
Tgt Ion:152 Resp: 163511

Ion Ratio Lower Upper

152 100

115 58.2 29.0 87.0

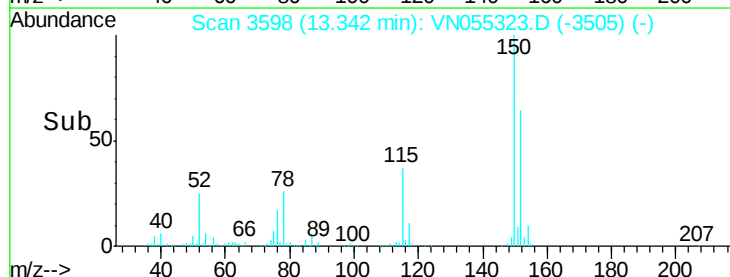
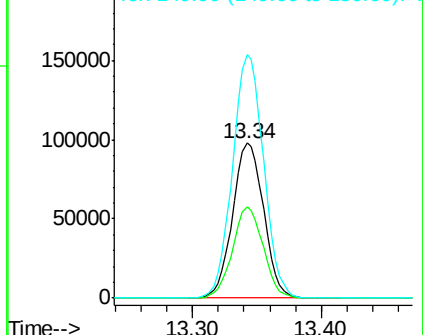
150 157.1 0.0 345.6

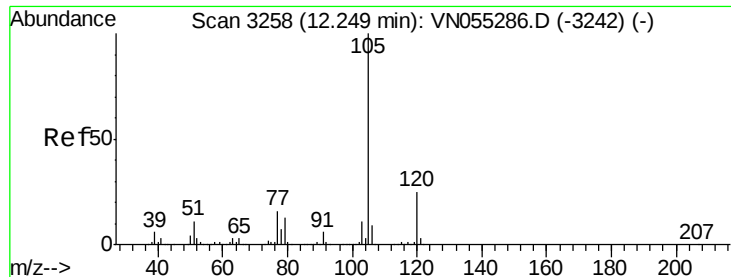


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

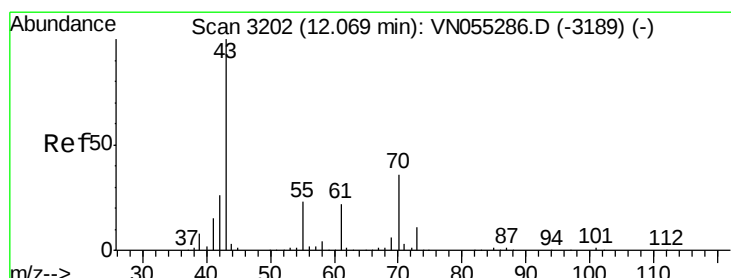
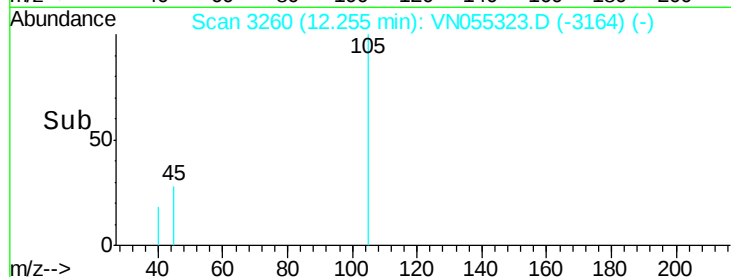
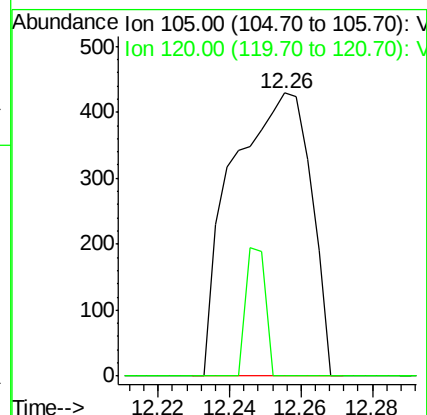
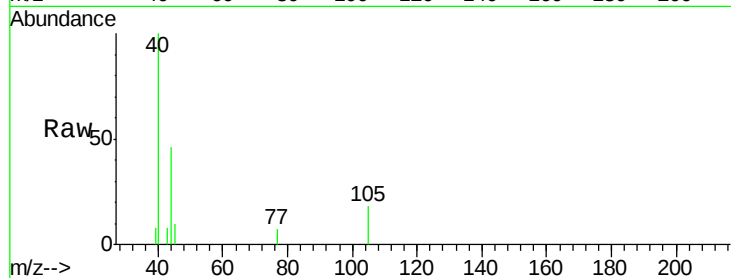
TR-04-043019

Tot Ion:105 Resp: 653

Ion Ratio Lower Upper

105 100

120 11.3 12.9 38.7#



#74

N-ethyl acetate

Concen: 3.662 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Tgt Ion: 43 Resp: 15369

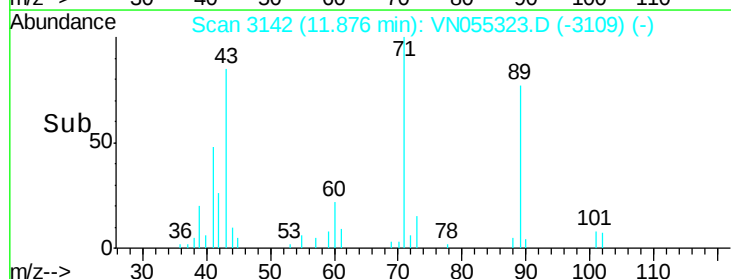
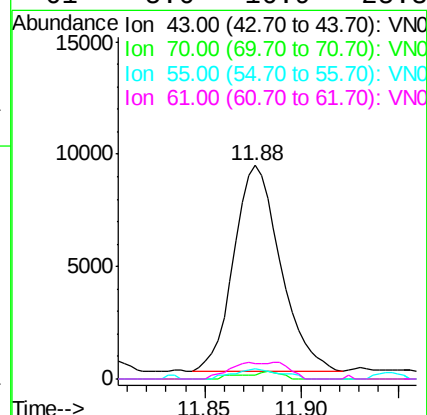
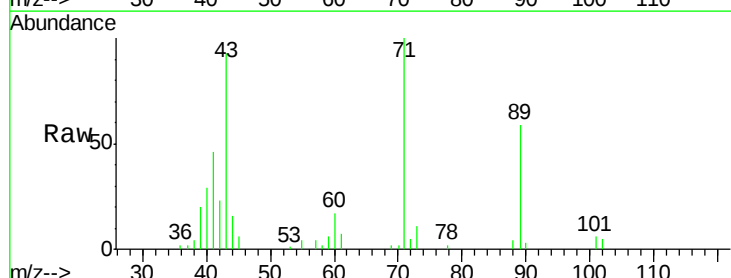
Ion Ratio Lower Upper

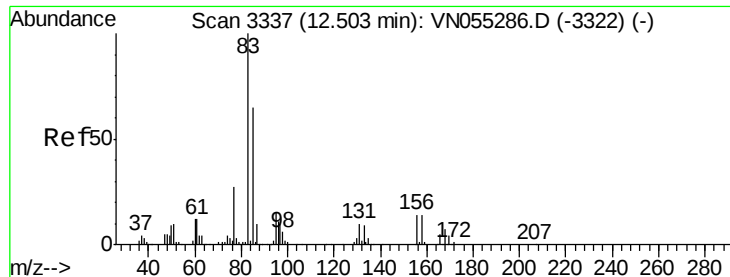
43 100

70 1.0 27.9 41.9#

55 4.9 18.2 27.2#

61 5.6 16.9 25.3#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3309

Delta R.T. -0.09 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampled :

TR-04-043019

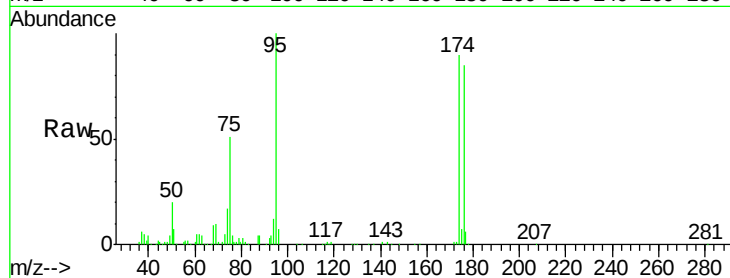
Tot Ion: 83 Resp: 64

Ion Ratio Lower Upper

83 100

131 410.9 5.1 15.2#

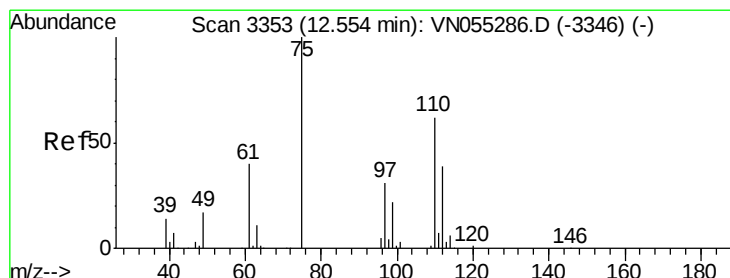
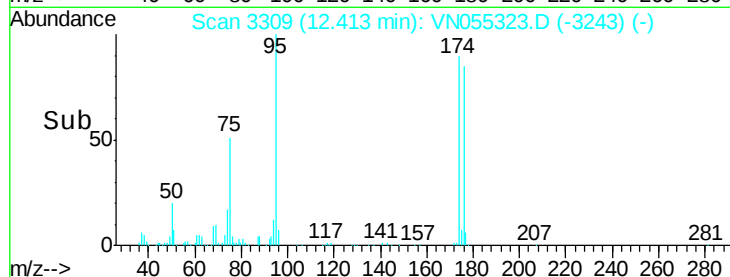
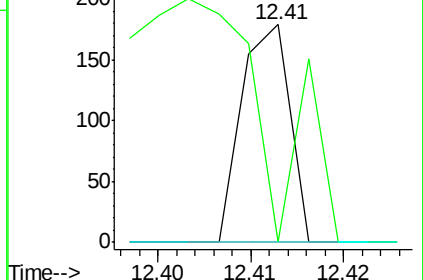
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 39.470 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055323.D

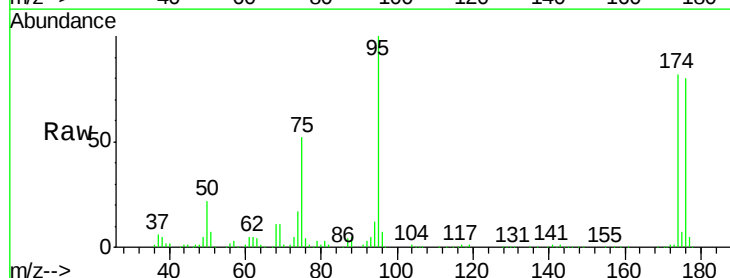
Acq: 1 May 2019 12:37

Tgt Ion: 75 Resp: 121571

Ion Ratio Lower Upper

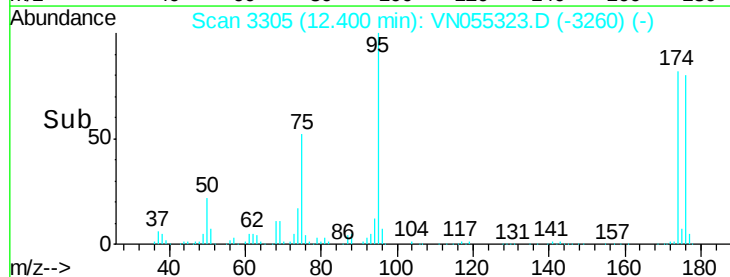
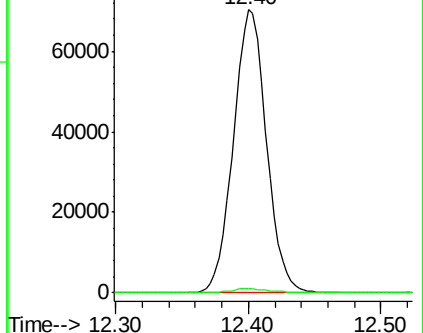
75 100

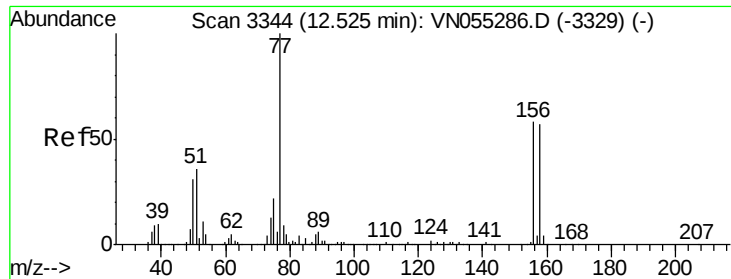
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: Below Cal

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampled :

TR-04-043019

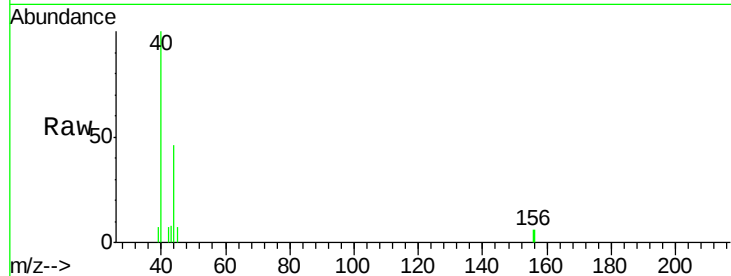
Tot Ion:156 Resp: 187

Ion Ratio Lower Upper

156 100

77 0.0 99.6 298.8#

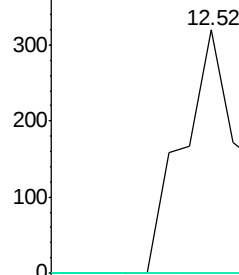
158 0.0 49.3 147.8#



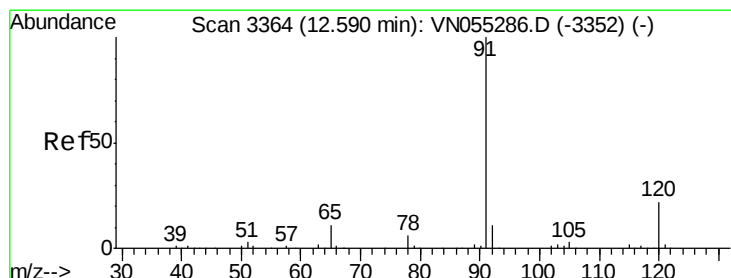
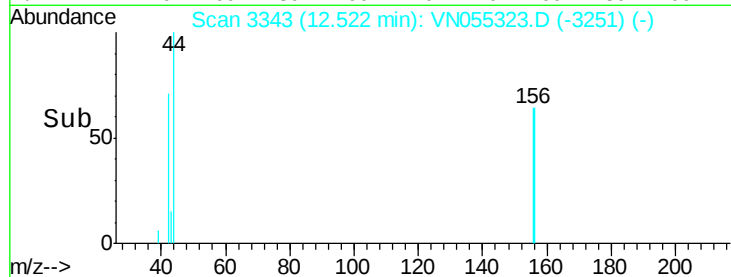
Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



Time--> 12.50 12.52



#78

n-propylbenzene

Concen: 0.201 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055323.D

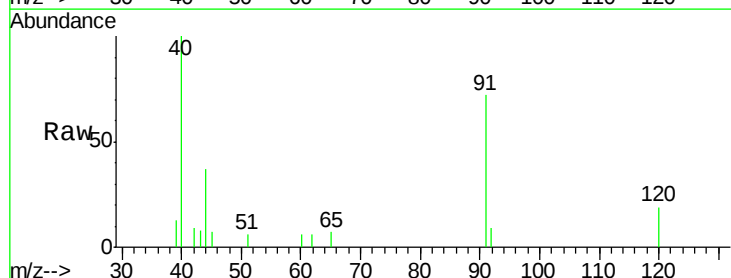
Acq: 1 May 2019 12:37

Tgt Ion: 91 Resp: 3384

Ion Ratio Lower Upper

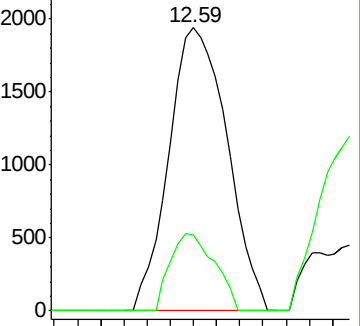
91 100

120 20.7 11.0 33.0

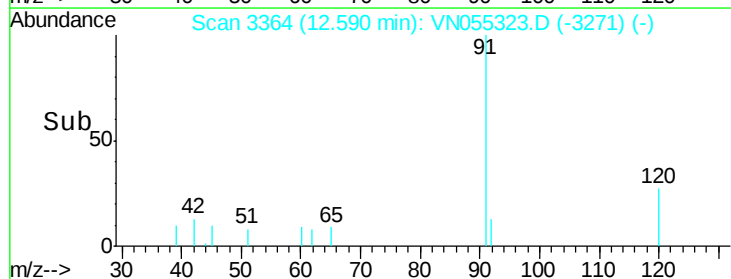


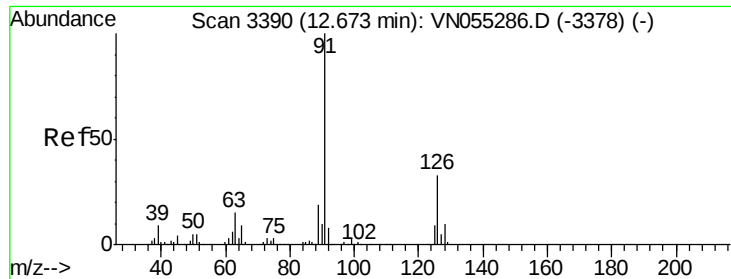
Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



Time--> 12.55 12.60





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampled :

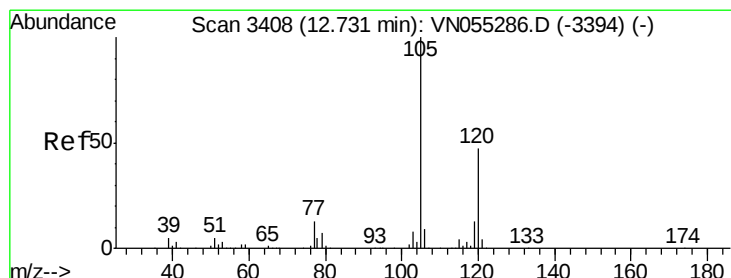
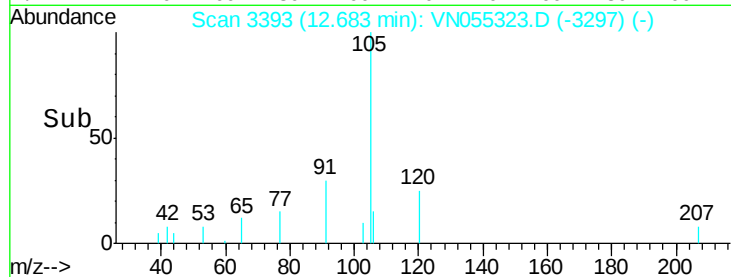
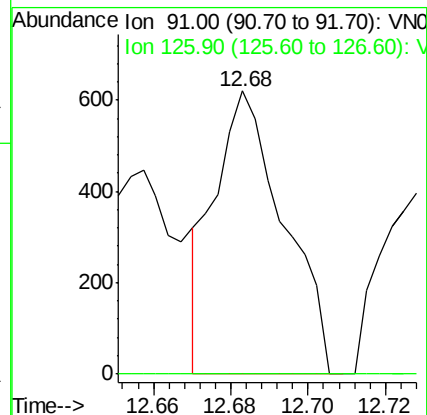
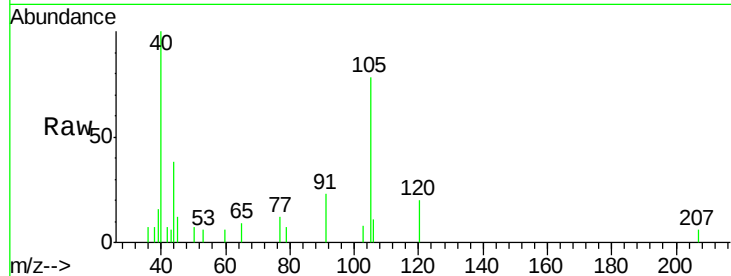
TR-04-043019

Tot Ion: 91 Resp: 766

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#



#80

1,3,5-Trimethylbenzene

Concen: 0.470 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055323.D

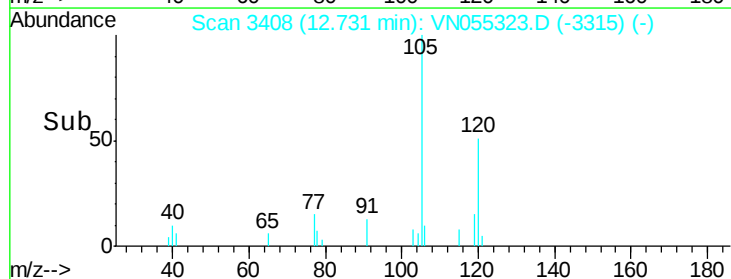
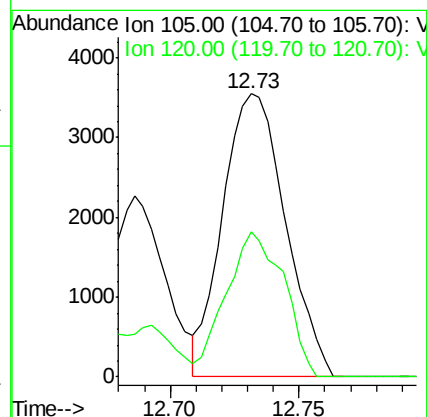
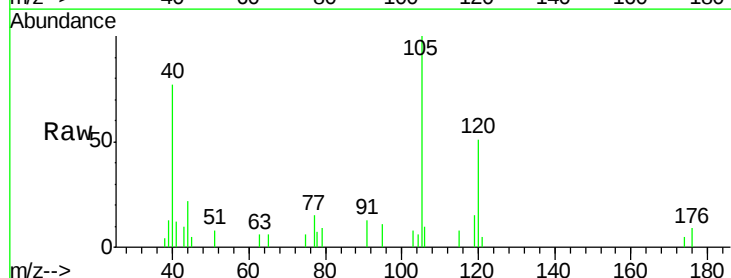
Acq: 1 May 2019 12:37

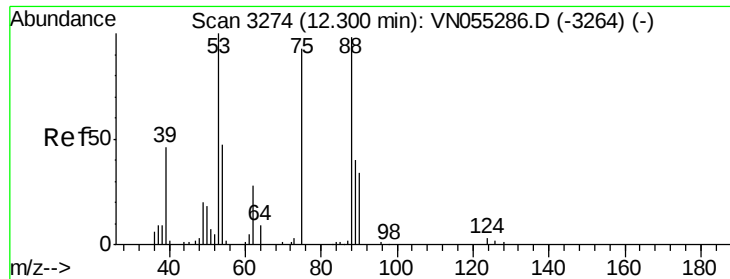
Tgt Ion: 105 Resp: 6024

Ion Ratio Lower Upper

105 100

120 47.2 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 140.899 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

TR-04-043019

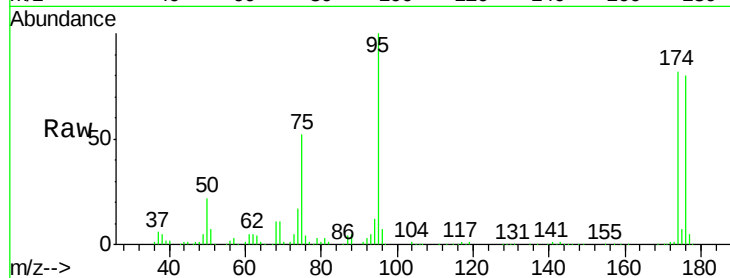
Tot Ion: 75 Resp: 121571

Ion Ratio Lower Upper

75 100

53 0.0 86.3 129.5#

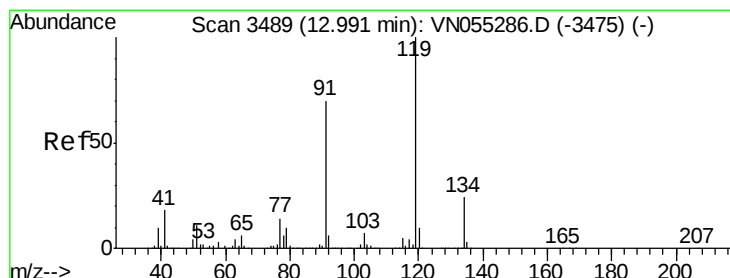
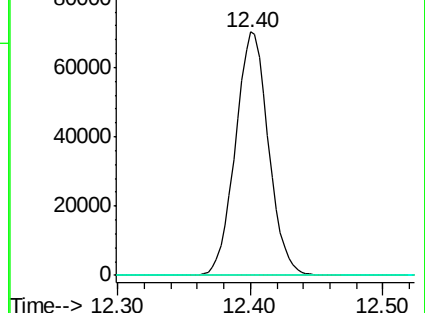
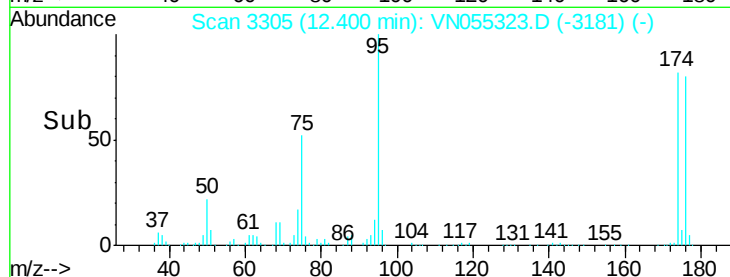
89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055323.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055323.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055323.D (-3181) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.05 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

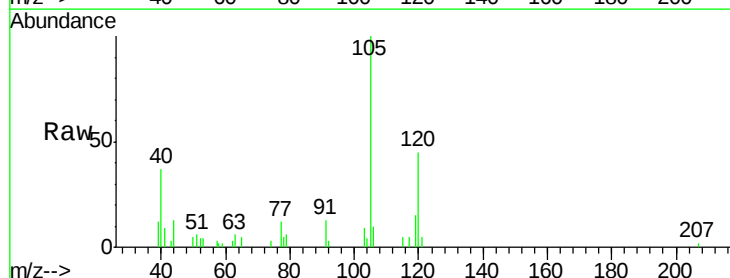
Tgt Ion: 119 Resp: 1527

Ion Ratio Lower Upper

119 100

91 94.4 34.3 102.9

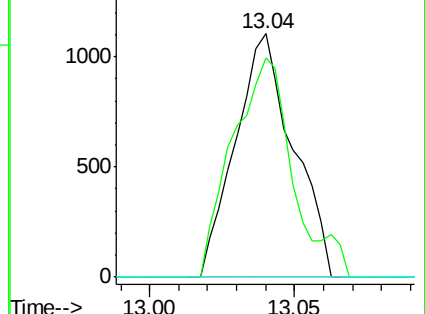
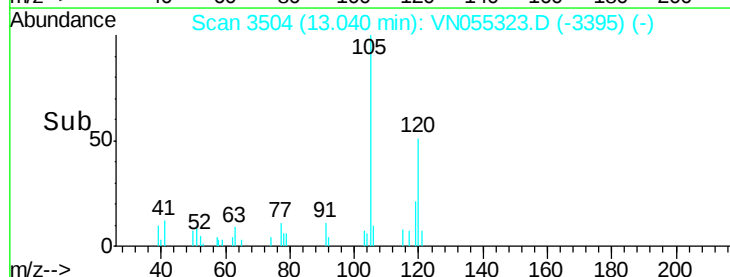
134 0.0 13.1 39.3#

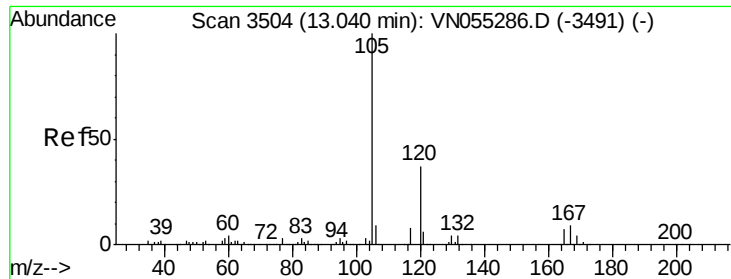


Abundance Ion 119.00 (118.70 to 119.70): VN055323.D (-3395) (-)

Ion 91.00 (90.70 to 91.70): VN055323.D (-3395) (-)

Ion 134.00 (133.70 to 134.70): VN055323.D (-3395) (-)





#84

1,2,4-Trimethylbenzene

Concen: 1.063 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampleId :

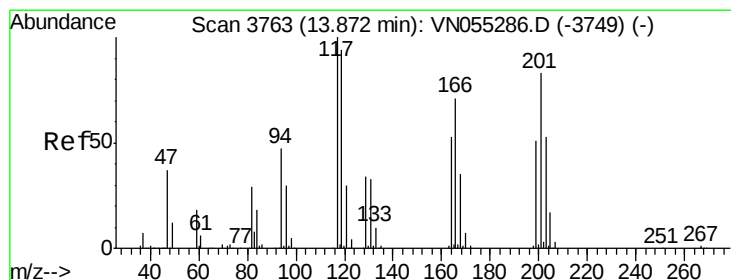
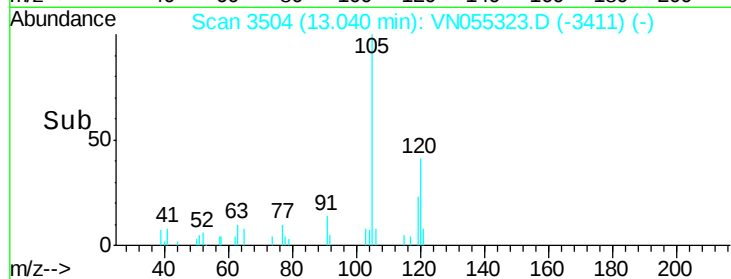
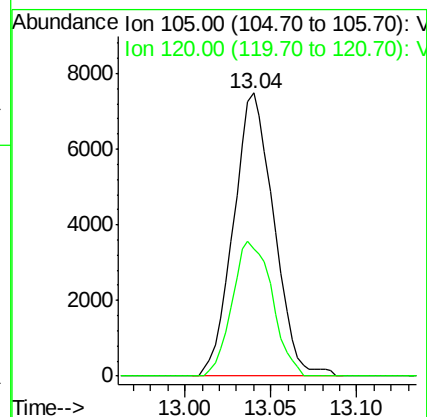
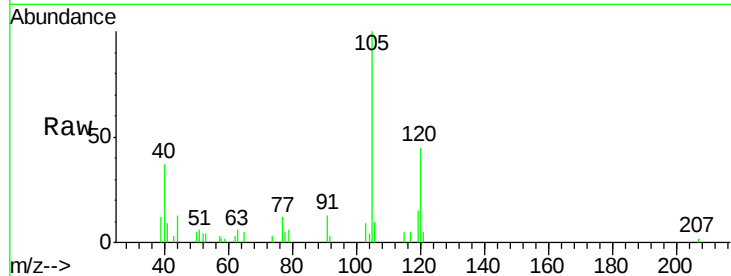
TR-04-043019

Tot Ion:105 Resp: 12189

Ion Ratio Lower Upper

105 100

120 47.1 22.1 66.5



#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3769

Delta R.T. 0.02 min

Lab File: VN055323.D

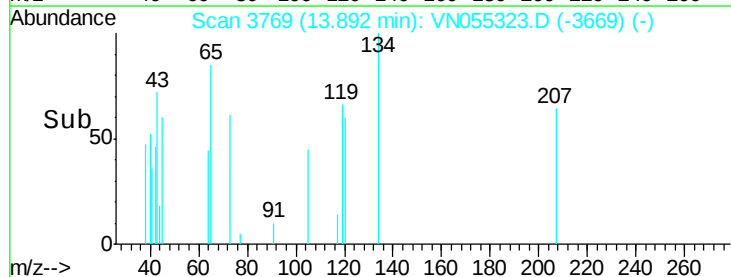
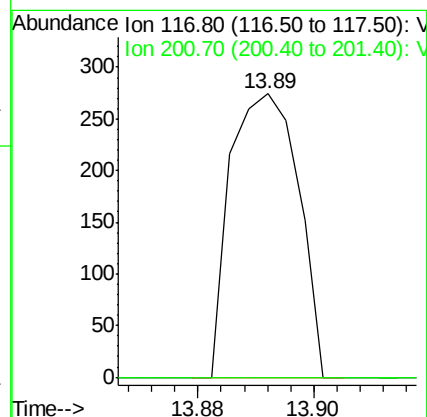
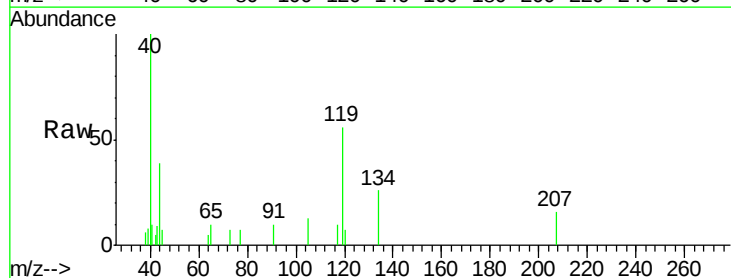
Acq: 1 May 2019 12:37

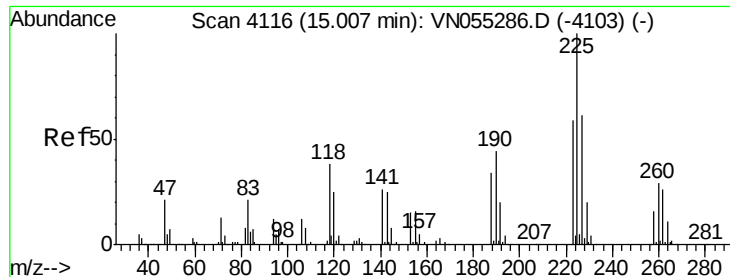
Tgt Ion:117 Resp: 222

Ion Ratio Lower Upper

117 100

201 0.0 41.9 125.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

Instrument :

MSVOA\_N

ClientSampled :

TR-04-043019

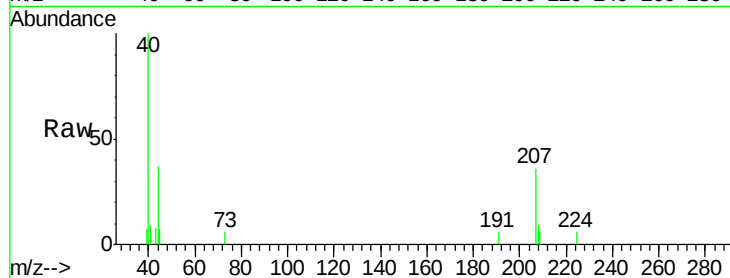
Tot Ion:225 Resp: 32

Ion Ratio Lower Upper

225 100

223 0.0 30.3 90.8#

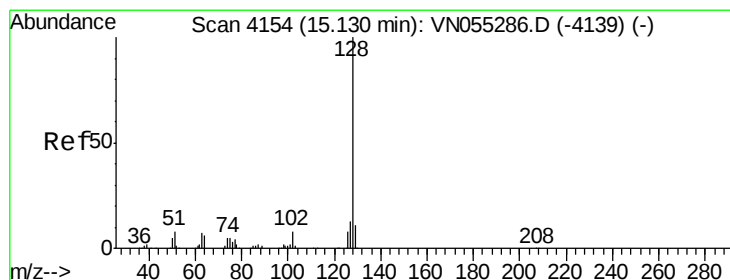
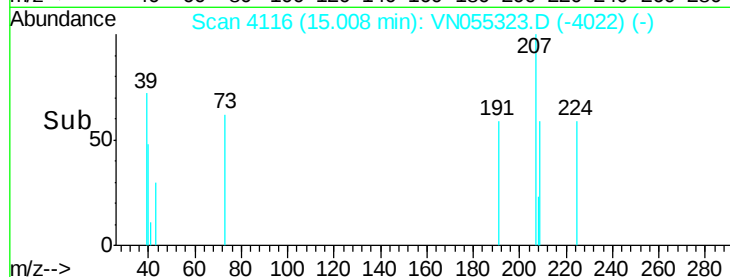
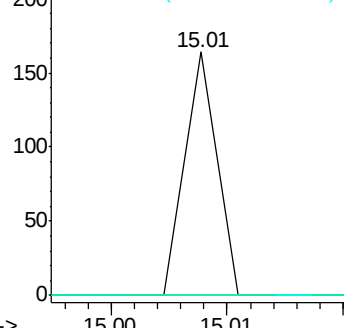
227 0.0 30.9 92.7#



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: 4.010 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055323.D

Acq: 1 May 2019 12:37

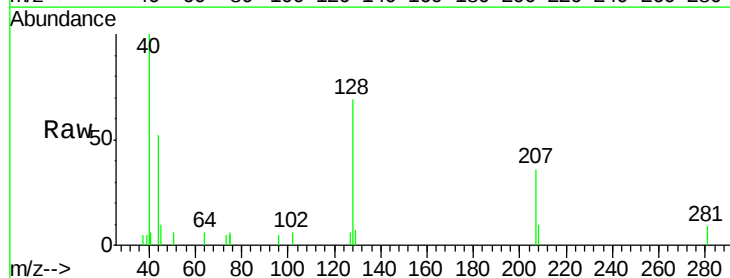
Tgt Ion:128 Resp: 3317

Ion Ratio Lower Upper

128 100

127 6.3 10.7 16.1#

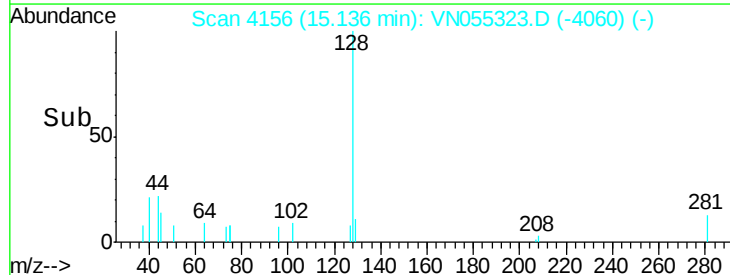
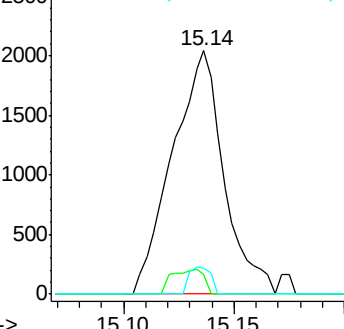
129 4.7 8.6 13.0#

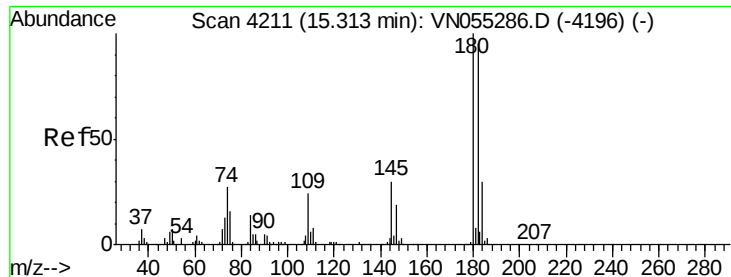


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

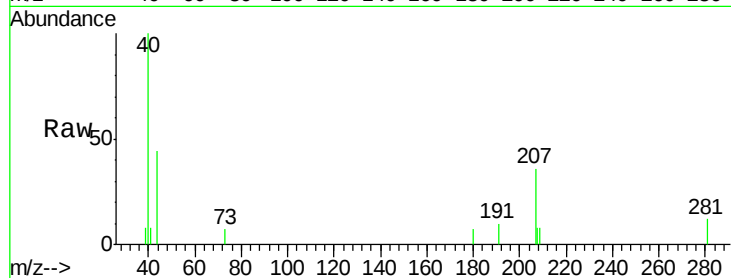




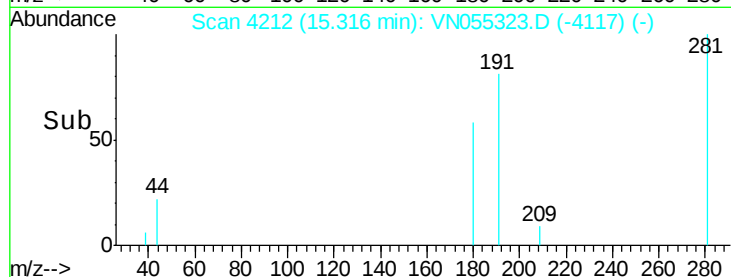
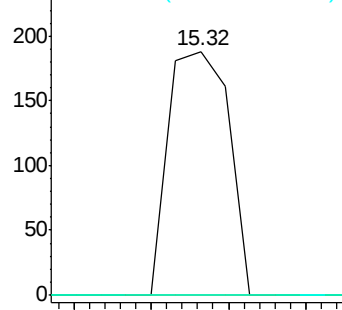
#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.659 ug/l  
 RT: 15.32 min Scan# 4212  
 Delta R.T. 0.00 min  
 Lab File: VN055323.D  
 Acq: 1 May 2019 12:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TR-04-043019

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 48.3  | 144.9# |
| 145     | 0.0   | 15.2  | 45.6#  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V



Time--> 15.30 15.31 15.32 15.33