

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\  
 Data File : VN058291.D  
 Acq On : 23 Sep 2019 14:45  
 Operator : JC/SP  
 Sample : K4939-06ME 10X  
 Misc : 6.22g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 985-S-5-(19)ME

Quant Time: Sep 24 01:32:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 475539   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 778177   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 666475   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 271938   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 352258   | 53.18 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 240041   | 50.74 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 50) Toluene-d8              | 10.09 | 98   | 987128   | 53.56 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 313910   | 45.85 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |

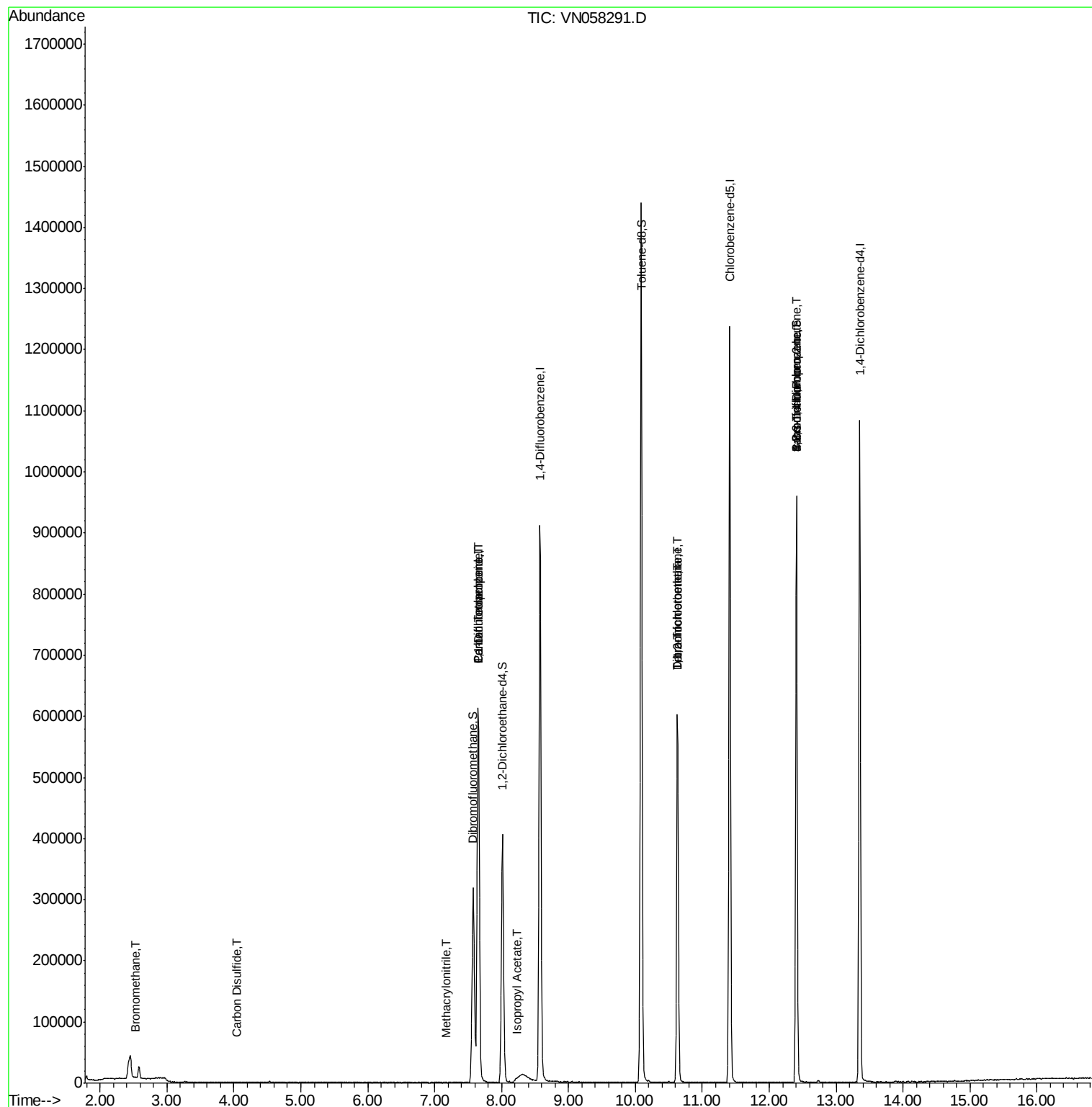
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 356      | Below Cal | #      | 42     |
| 4) Vinyl Chloride              | 2.44  | 62   | 157      | Below Cal | #      | 83     |
| 5) Bromomethane                | 2.54  | 94   | 442      | 0.972     | ug/l # | 56     |
| 6) Chloroethane                | 2.87  | 64   | 67       | Below Cal | #      | 1      |
| 17) Carbon Disulfide           | 4.04  | 76   | 228      | 0.326     | ug/l # | 74     |
| 20) Methylene Chloride         | 4.54  | 84   | 724      | Below Cal |        | 95     |
| 31) Cyclohexane                | 7.65  | 56   | 12532    | Below Cal | #      | 15     |
| 36) 1,1-Dichloropropene        | 7.65  | 75   | 41259    | 7.352     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.65  | 117  | 48964    | 8.680     | ug/l # | 15     |
| 41) Methacrylonitrile          | 7.18  | 41   | 69       | 0.934     | ug/l # | 100    |
| 43) Isopropyl Acetate          | 8.22  | 43   | 4107     | 0.378     | ug/l # | 57     |
| 55) 1,1,2-Trichloroethane      | 10.63 | 97   | 1305     | 0.274     | ug/l # | 11     |
| 60) Dibromochloromethane       | 10.63 | 129  | 119298   | 26.013    | ug/l # | 11     |
| 64) Tetrachloroethene          | 10.63 | 164  | 130880   | 40.284    | ug/l   | 98     |
| 71) Bromoform                  | 12.41 | 173  | 1438     | 4.019     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.41 | 75   | 177014   | 36.371    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.41 | 75   | 177014   | 101.517   | ug/l # | 5      |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN092319\  
Data File : VN058291.D  
Acq On : 23 Sep 2019 14:45  
Operator : JC/SP  
Sample : K4939-06ME 10X  
Misc : 6.22g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
985-S-5-(19)ME

Quant Time: Sep 24 01:32:31 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

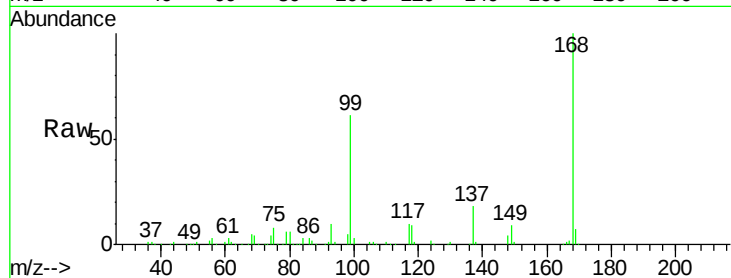
985-S-5-(19)ME

Tot Ion:168 Resp: 475539

Ion Ratio Lower Upper

168 100

99 60.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

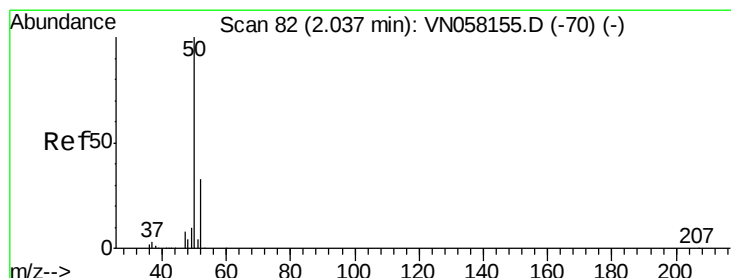
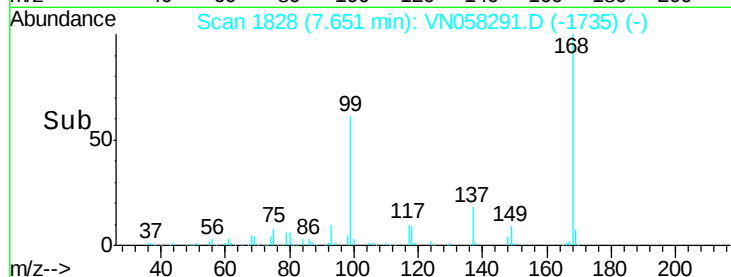
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058291.D

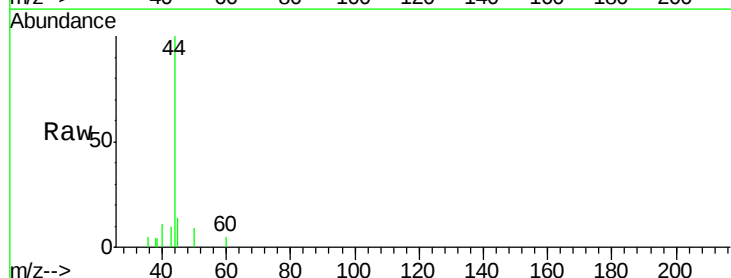
Acq: 23 Sep 2019 14:45

Tgt Ion: 50 Resp: 356

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

400

300

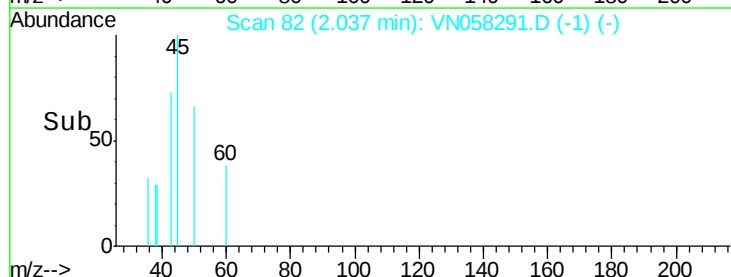
200

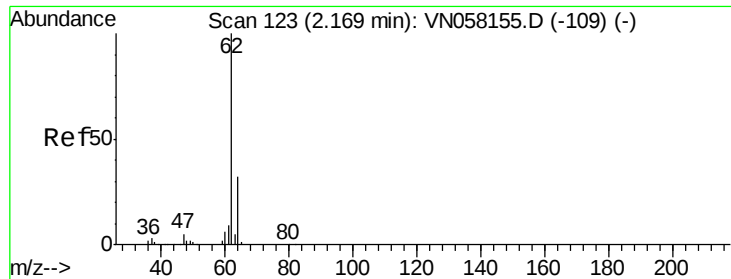
100

0

2.02 2.04 2.06

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.44 min Scan# 207

Delta R.T. 0.27 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

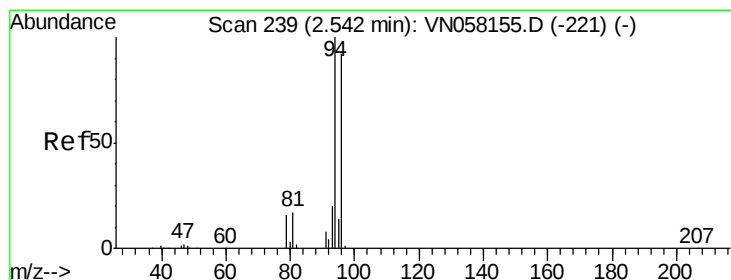
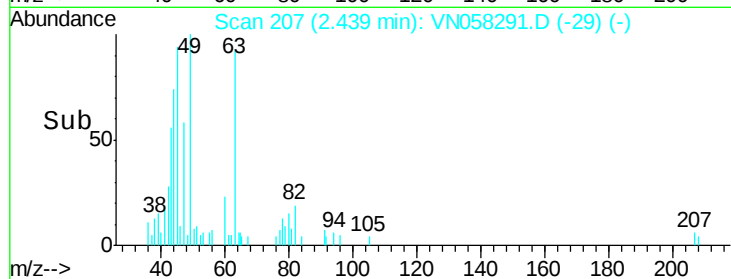
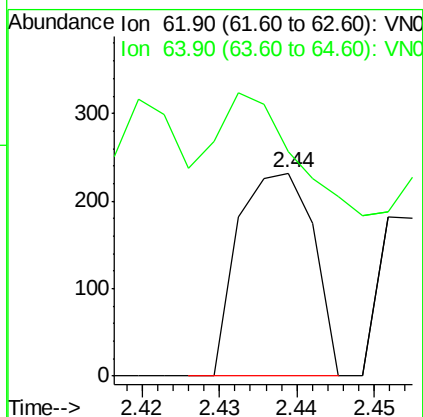
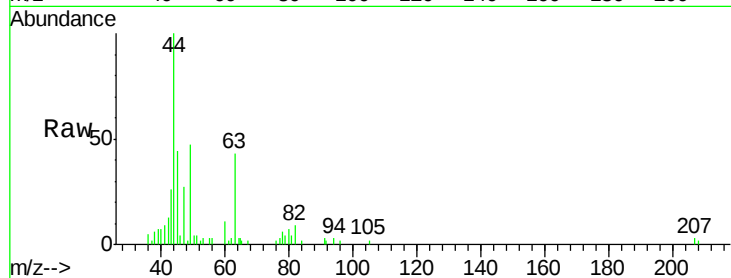
985-S-5-(19)ME

Tot Ion: 62 Resp: 157

Ion Ratio Lower Upper

62 100

64 22.4 25.4 38.2#



#5

Bromomethane

Concen: 0.972 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058291.D

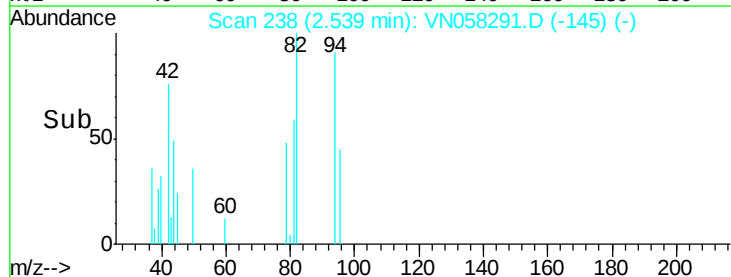
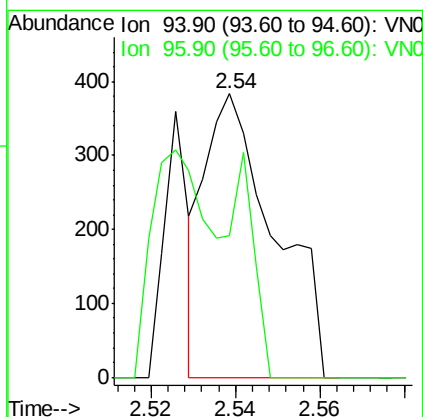
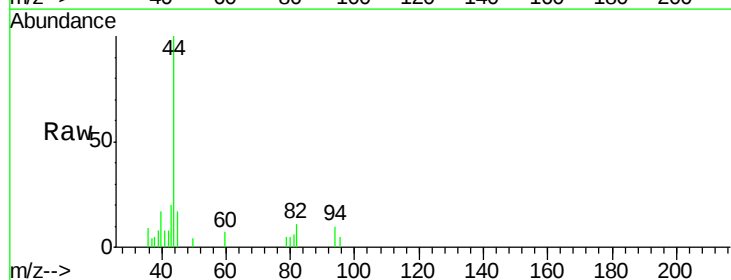
Acq: 23 Sep 2019 14:45

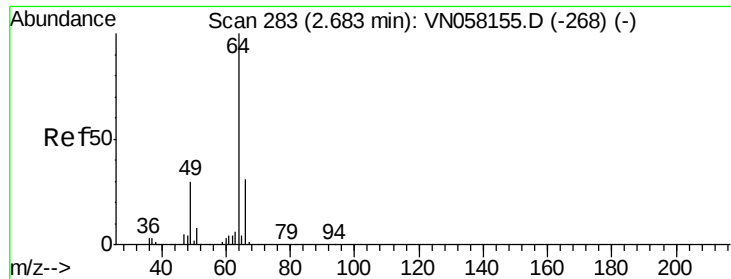
Tgt Ion: 94 Resp: 442

Ion Ratio Lower Upper

94 100

96 49.9 73.3 109.9#





#6

Chloroethane

Concen: Below Cal

RT: 2.87 min Scan# 340

Delta R.T. 0.18 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

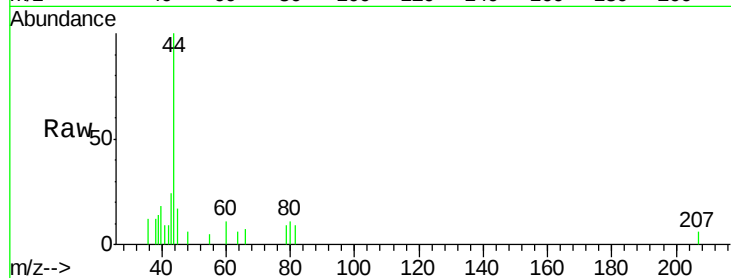
985-S-5-(19)ME

Tot Ion: 64 Resp: 67

Ion Ratio Lower Upper

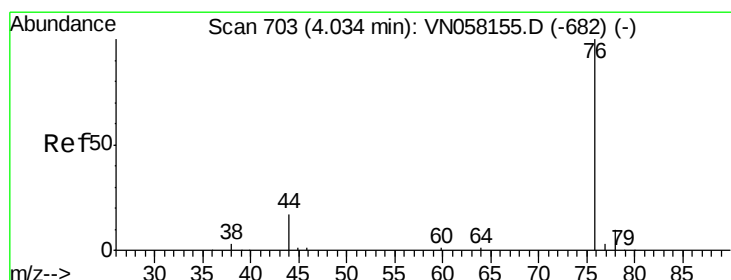
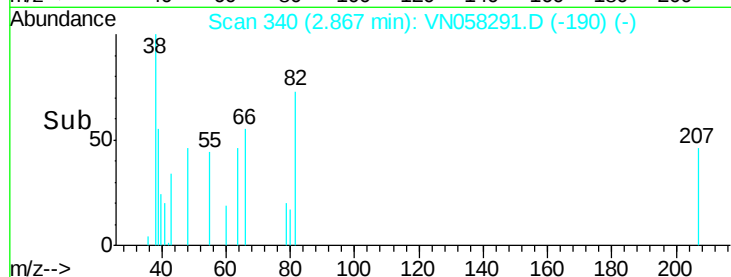
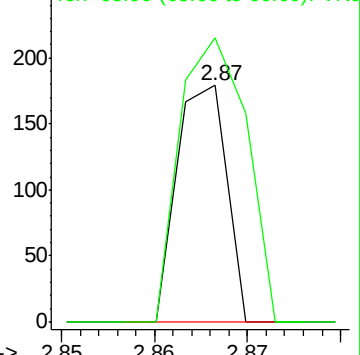
64 100

66 120.1 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC



#17

Carbon Disulfide

Concen: 0.326 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN058291.D

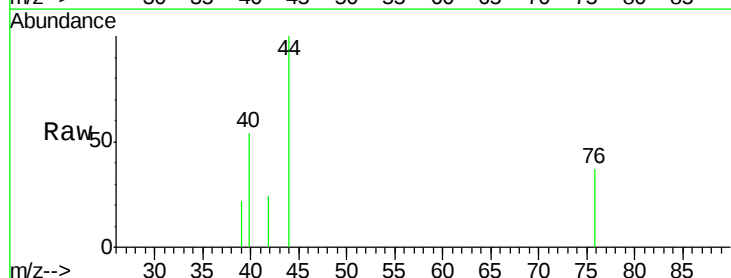
Acq: 23 Sep 2019 14:45

Tgt Ion: 76 Resp: 228

Ion Ratio Lower Upper

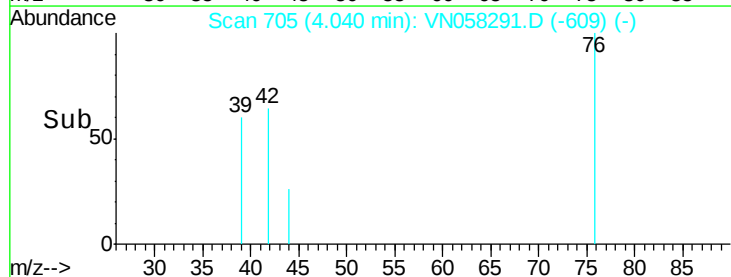
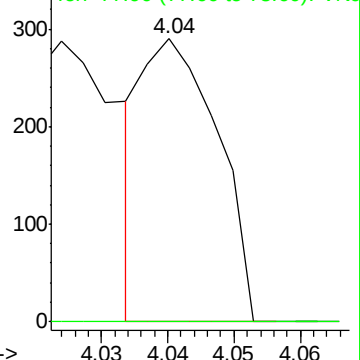
76 100

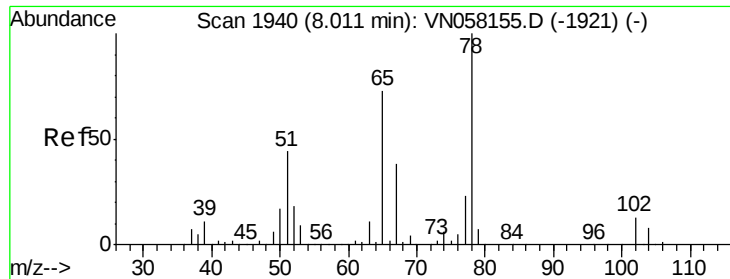
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

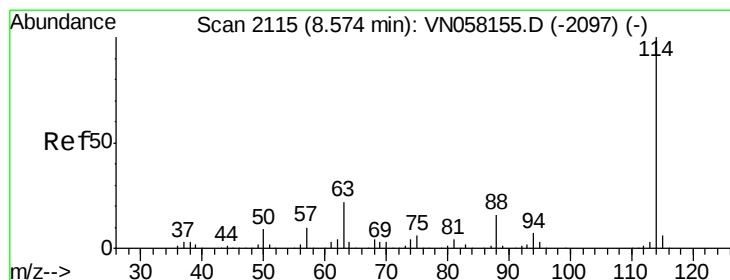
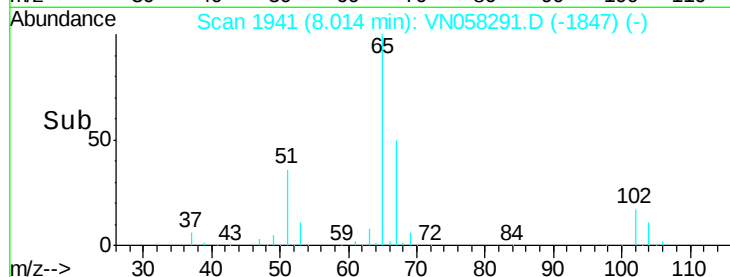
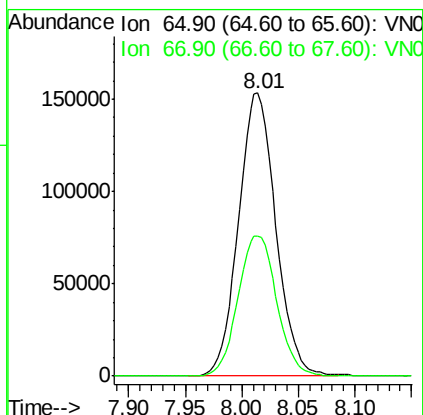
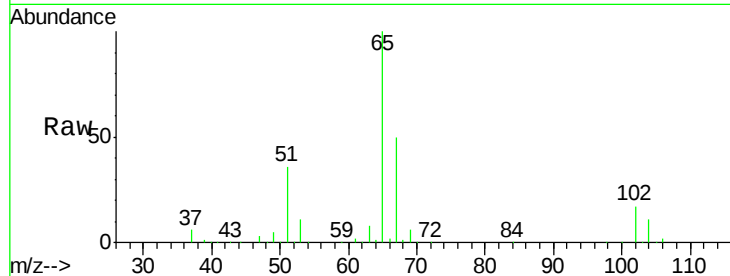




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.185 ug/l  
 RT: 8.01 min Scan# 1941  
 Delta R.T. 0.00 min  
 Lab File: VN058291.D  
 Acq: 23 Sep 2019 14:45

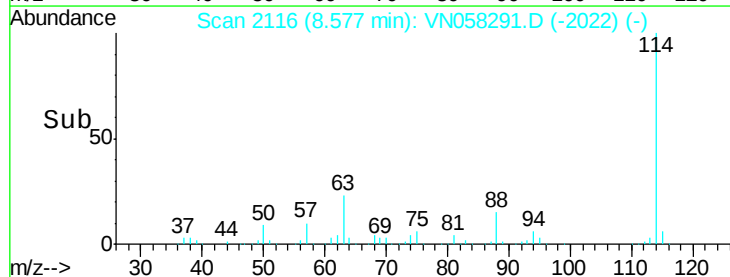
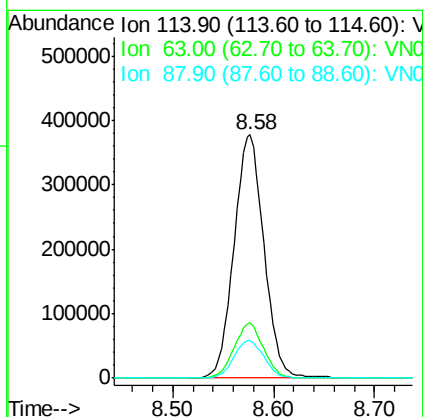
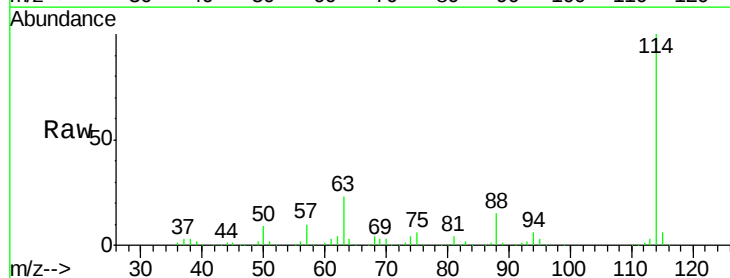
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 985-S-5-(19)ME

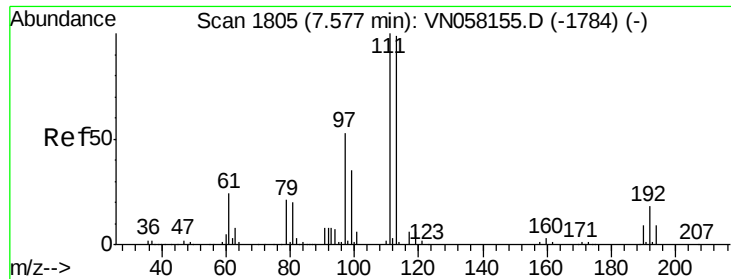
Tot Ion: 65 Resp: 352258  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN058291.D  
 Acq: 23 Sep 2019 14:45

Tgt Ion: 114 Resp: 778177  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 44.2  
 88 15.4 0.0 31.6

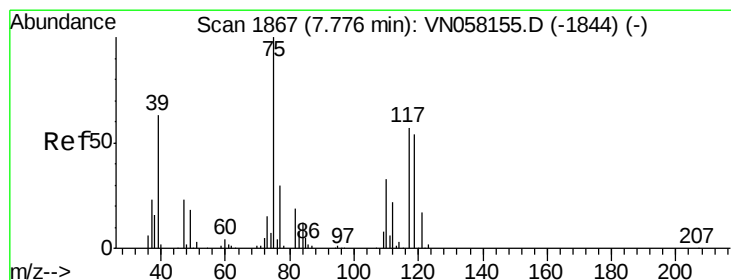
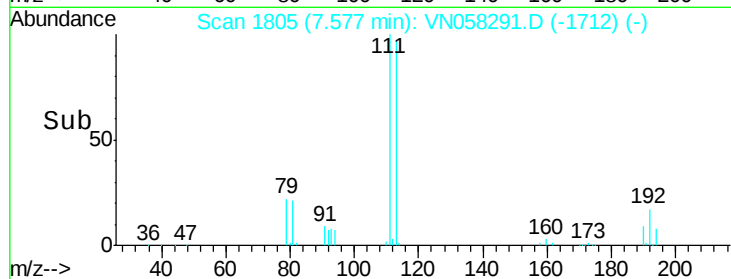
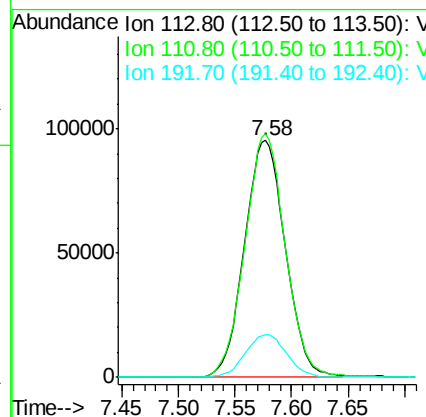
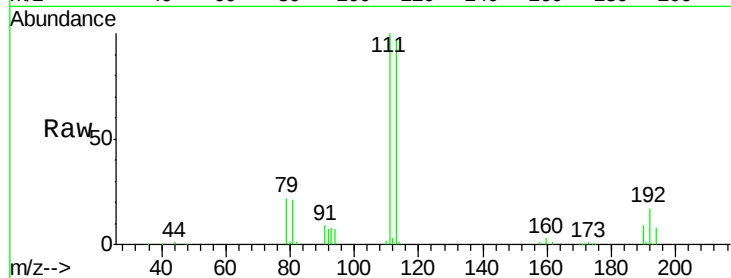




#35  
 Dibromofluoromethane  
 Concen: 50.741 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. -0.00 min  
 Lab File: VN058291.D  
 Acq: 23 Sep 2019 14:45

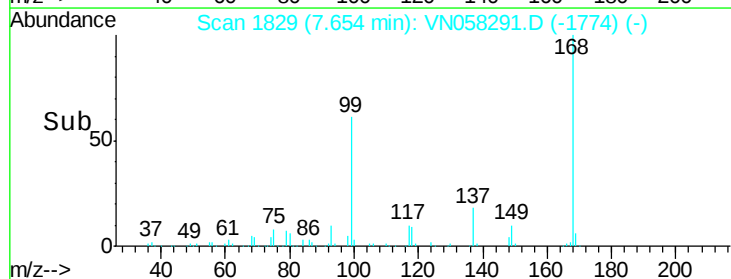
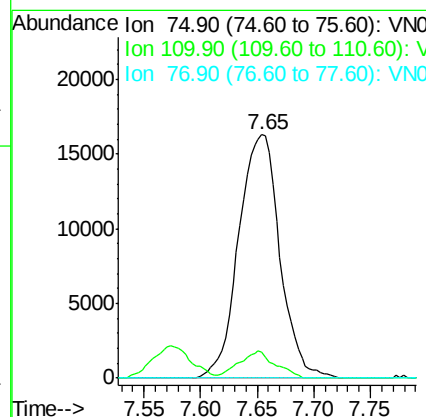
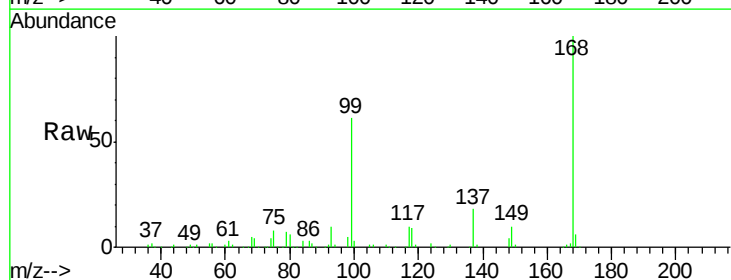
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 985-S-5-(19)ME

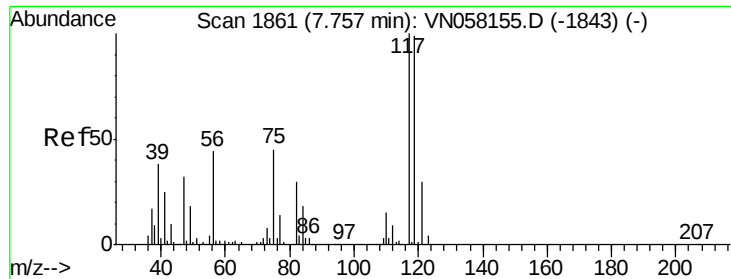
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.5 | 81.8  | 122.6 |
| 192     | 18.2  | 14.5  | 21.7  |



#36  
 1,1-Dichloropropene  
 Concen: 7.352 ug/l  
 RT: 7.65 min Scan# 1829  
 Delta R.T. -0.12 min  
 Lab File: VN058291.D  
 Acq: 23 Sep 2019 14:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.8   | 16.6  | 49.7# |
| 77      | 0.0   | 24.3  | 36.5# |





#38

Carbon Tetrachloride

Concen: 8.680 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

985-S-5-(19)ME

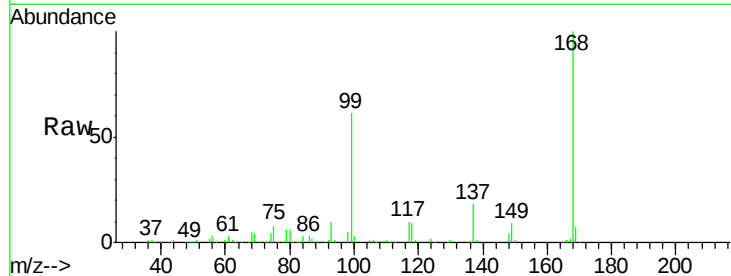
Tot Ion:117 Resp: 48964

Ion Ratio Lower Upper

117 100

119 5.6 78.6 117.8#

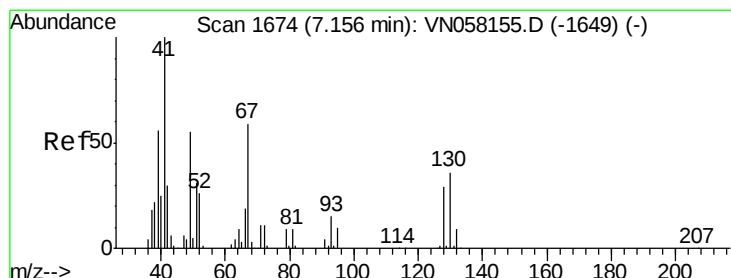
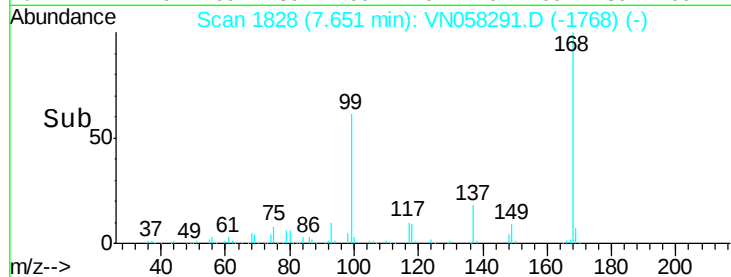
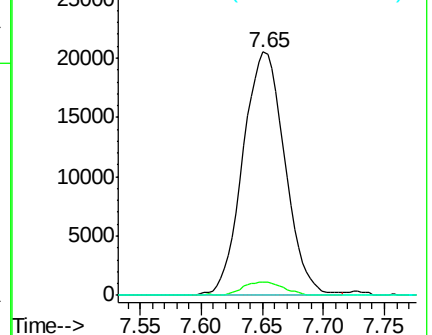
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.934 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.02 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Tgt Ion: 41 Resp: 69

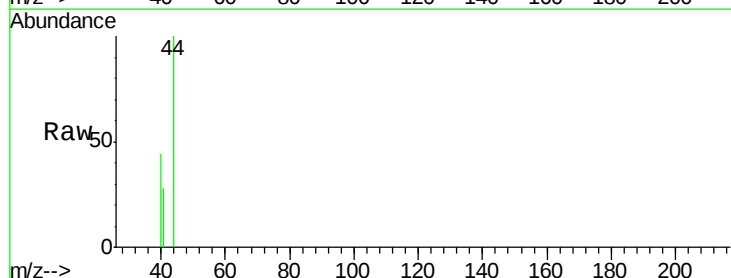
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

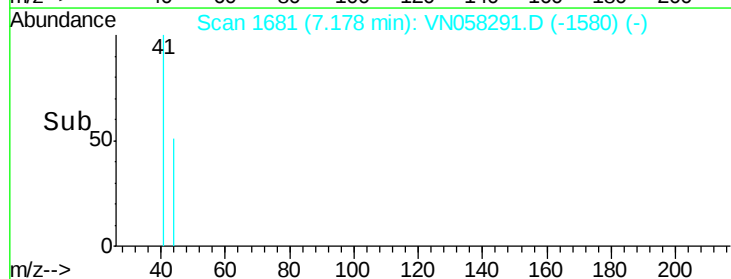
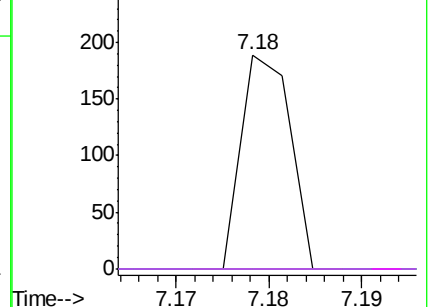


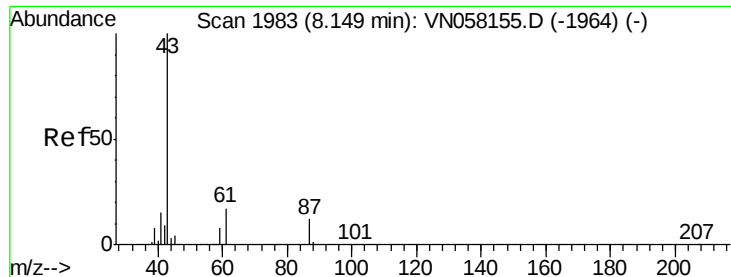
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.378 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.07 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

985-S-5-(19)ME

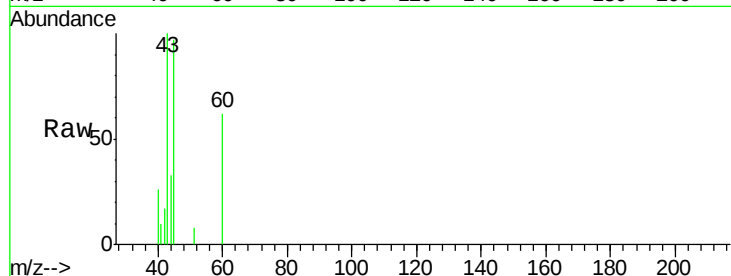
Tot Ion: 43 Resp: 4107

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

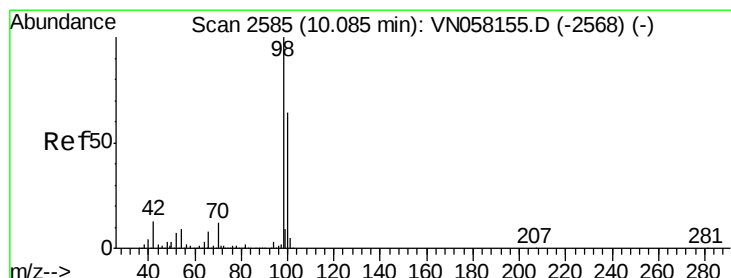
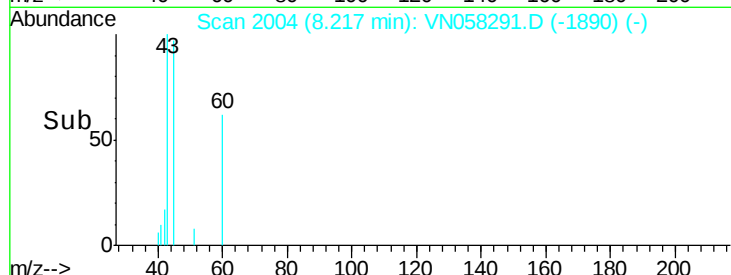
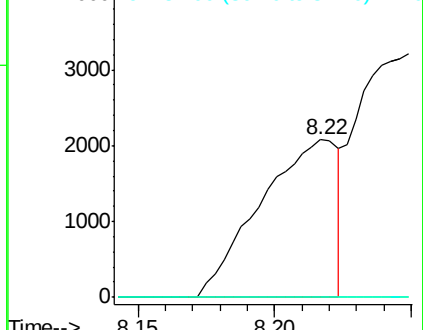
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 53.556 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058291.D

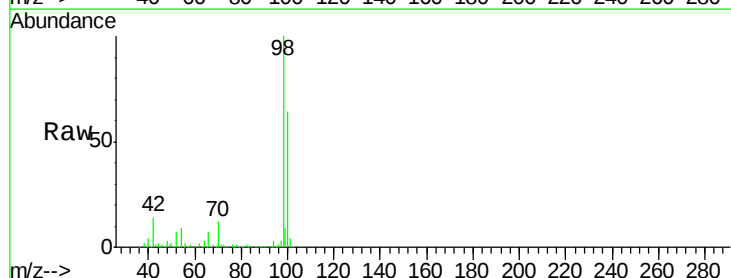
Acq: 23 Sep 2019 14:45

Tgt Ion: 98 Resp: 987128

Ion Ratio Lower Upper

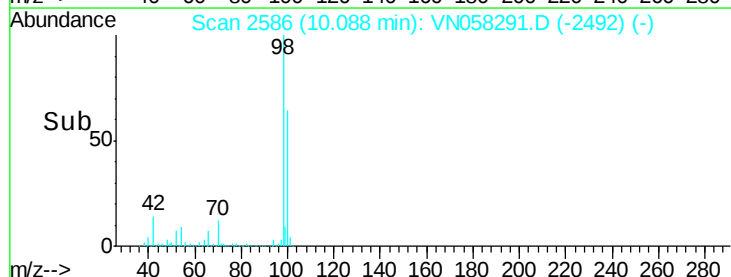
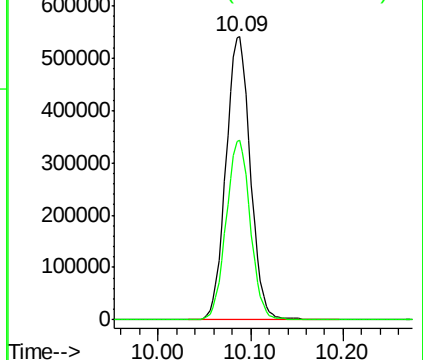
98 100

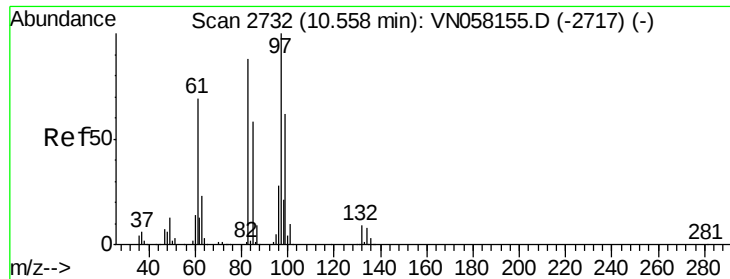
100 63.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#55

1,1,2-Trichloroethane

Concen: 0.274 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.07 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

985-S-5-(19)ME

Tot Ion: 97 Resp: 1305

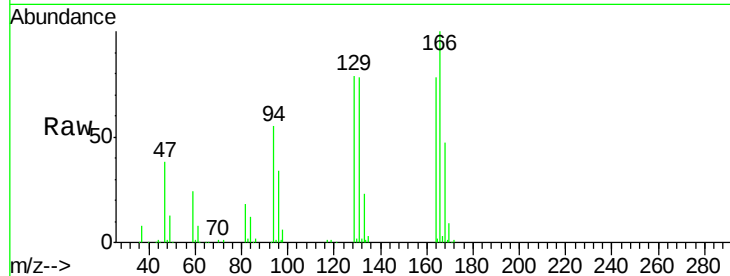
Ion Ratio Lower Upper

97 100

83 220.2 70.4 105.6#

85 44.9 46.8 70.2#

99 0.0 49.9 74.9#

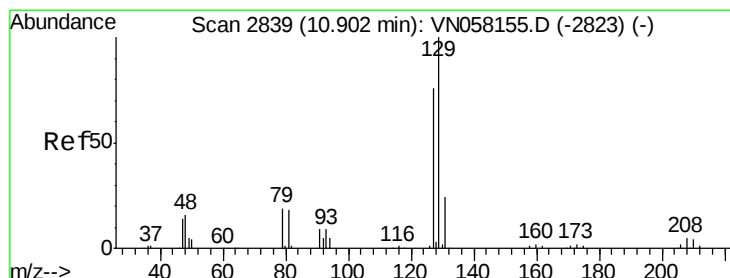
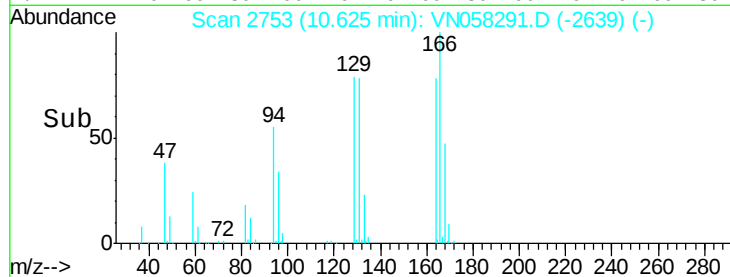
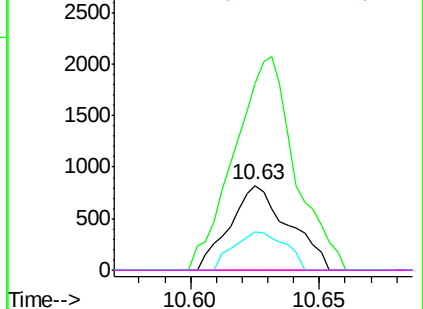


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#60

Dibromochloromethane

Concen: 26.013 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058291.D

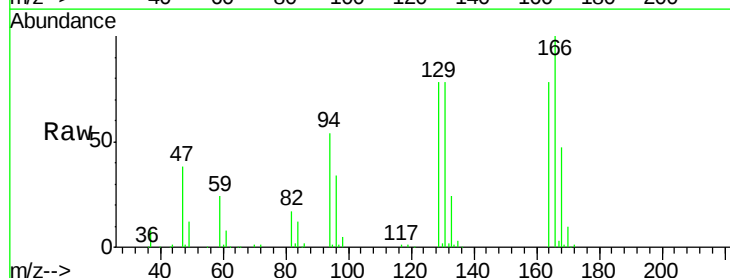
Acq: 23 Sep 2019 14:45

Tgt Ion: 129 Resp: 119298

Ion Ratio Lower Upper

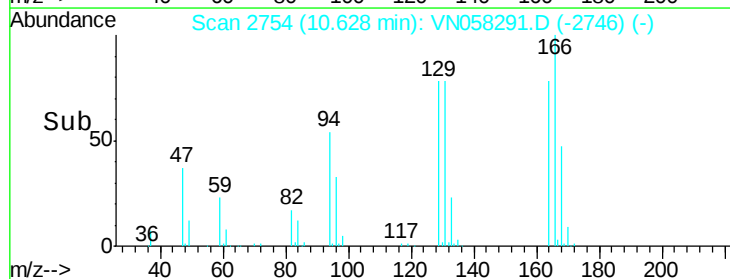
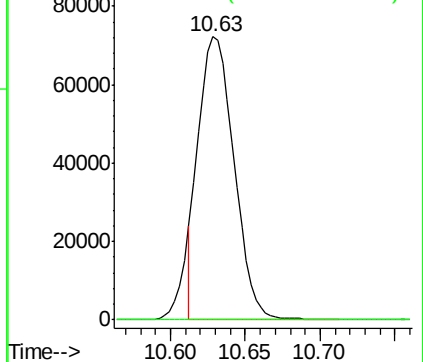
129 100

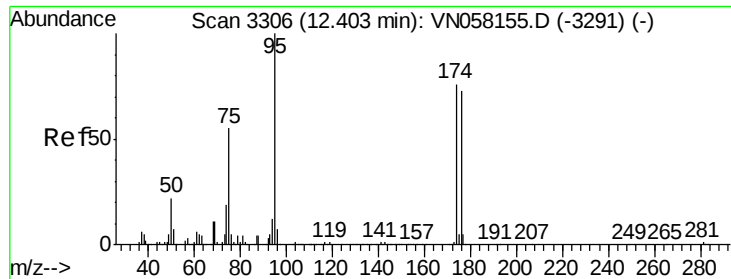
127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

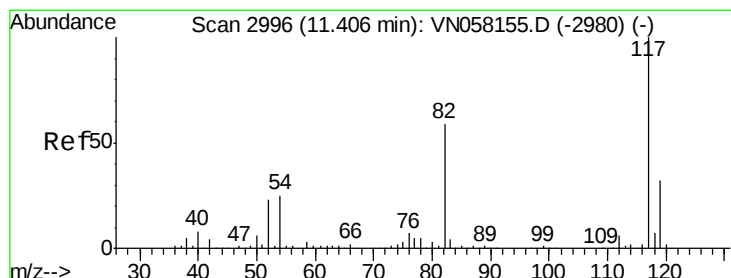
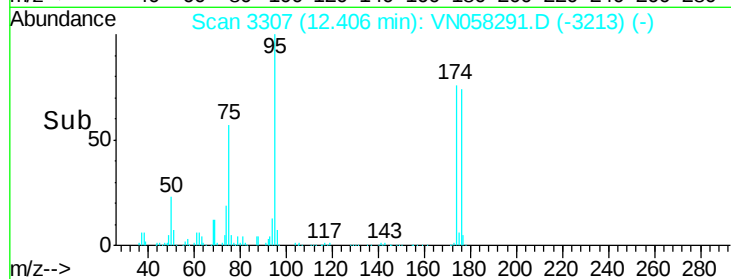
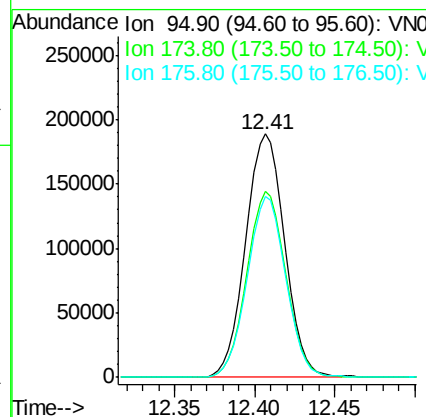
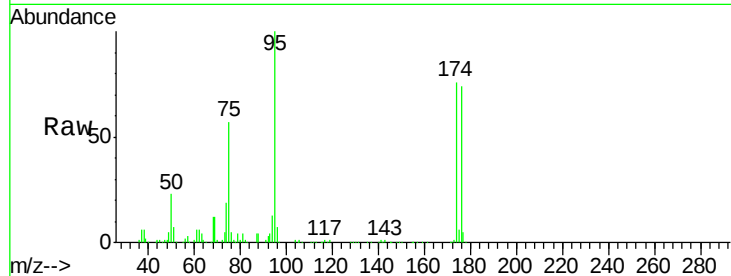




#62  
4-Bromofluorobenzene  
Concen: 45.849 ug/l  
RT: 12.41 min Scan# 3307  
Delta R.T. 0.00 min  
Lab File: VN058291.D  
Acq: 23 Sep 2019 14:45

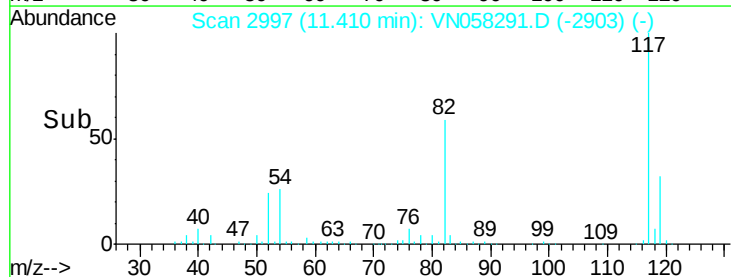
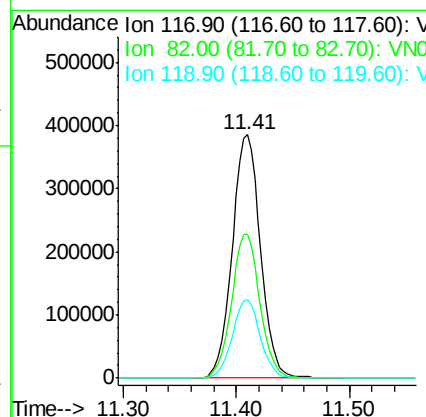
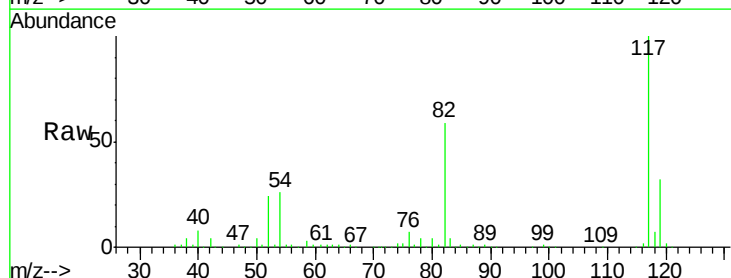
Instrument :  
MSVOA\_N  
ClientSampleId :  
985-S-5-(19)ME

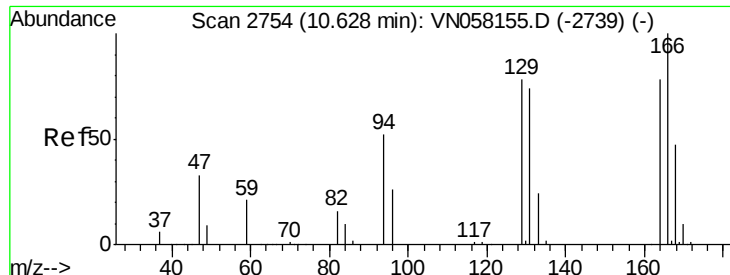
Tot Ion: 95 Resp: 313910  
Ion Ratio Lower Upper  
95 100  
174 76.5 0.0 152.2  
176 73.7 0.0 148.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN058291.D  
Acq: 23 Sep 2019 14:45

Tgt Ion: 117 Resp: 666475  
Ion Ratio Lower Upper  
117 100  
82 58.8 46.9 70.3  
119 32.2 25.3 37.9





#64

Tetrachloroethene

Concen: 40.284 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

985-S-5-(19)ME

Tot Ion:164 Resp: 130880

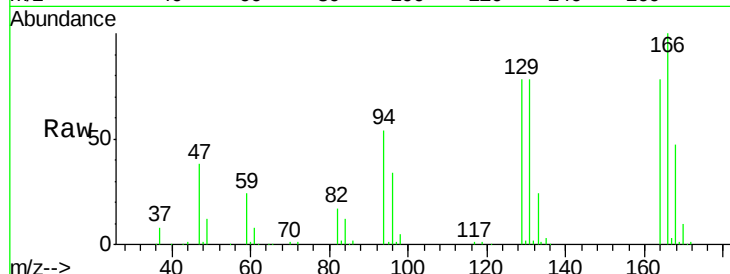
Ion Ratio Lower Upper

164 100

166 128.4 102.2 153.4

129 100.5 79.6 119.4

131 99.6 76.0 114.0

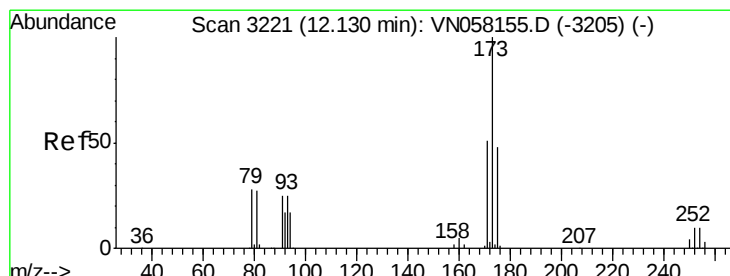
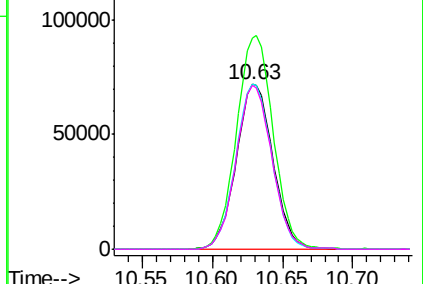
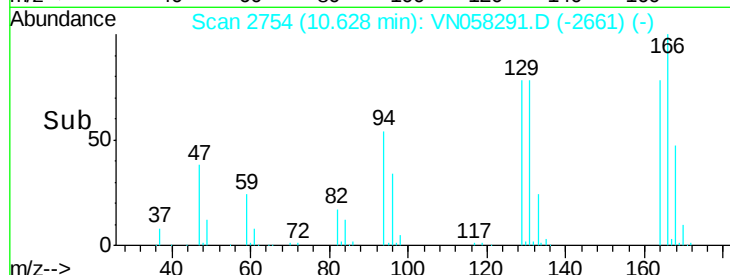


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 4.019 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

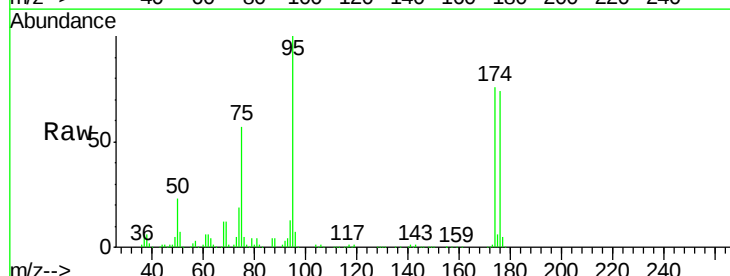
Tgt Ion:173 Resp: 1438

Ion Ratio Lower Upper

173 100

175 1045.5 24.2 72.6#

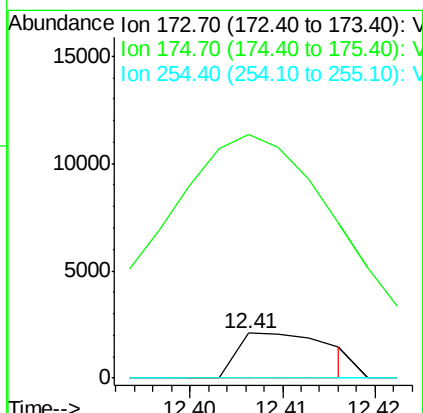
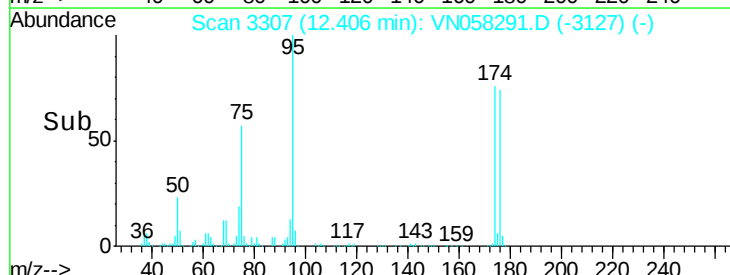
254 0.0 0.1 0.1#

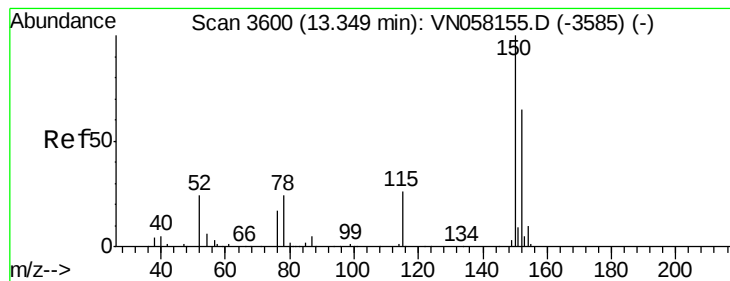


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

985-S-5-(19)ME

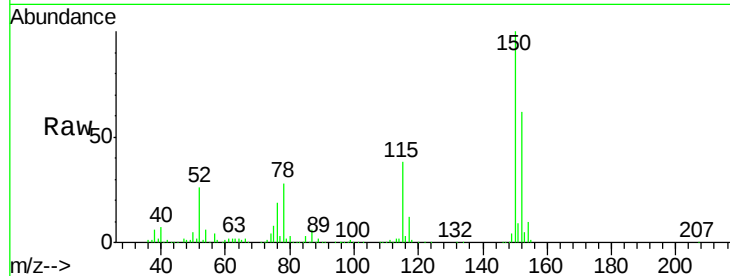
Tot Ion:152 Resp: 271938

Ion Ratio Lower Upper

152 100

115 61.3 30.1 90.3

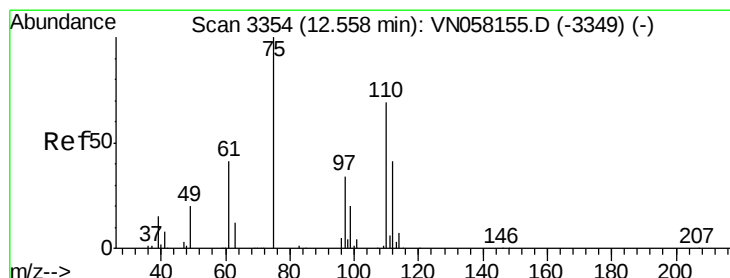
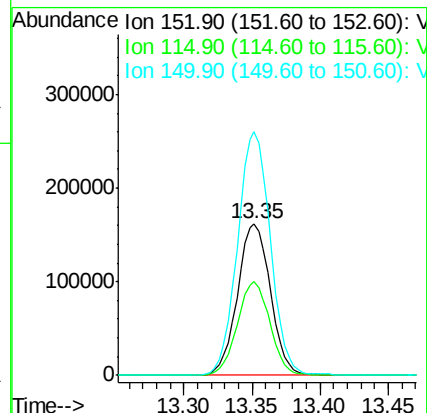
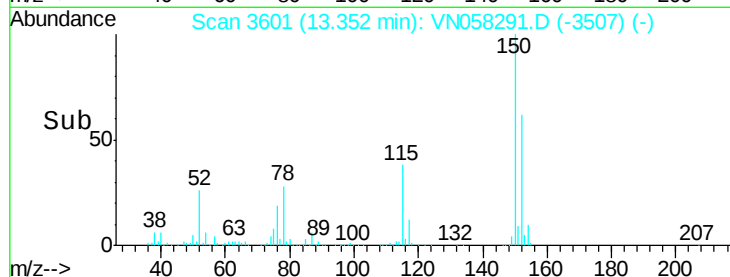
150 160.0 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 36.371 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058291.D

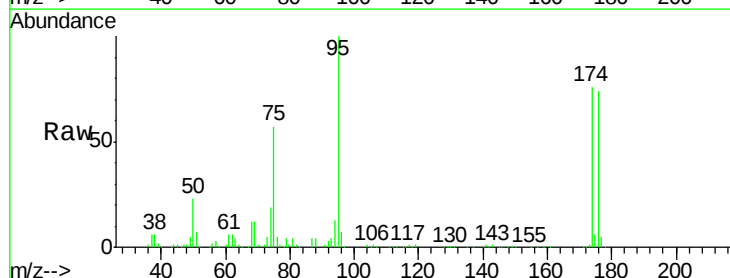
Acq: 23 Sep 2019 14:45

Tgt Ion: 75 Resp: 177014

Ion Ratio Lower Upper

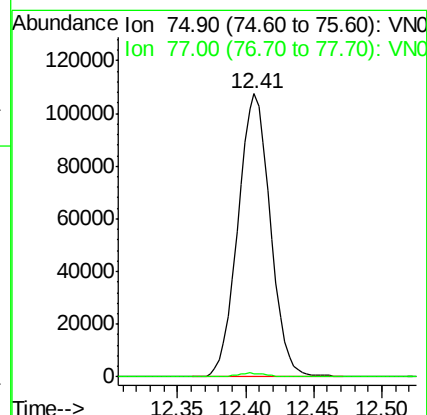
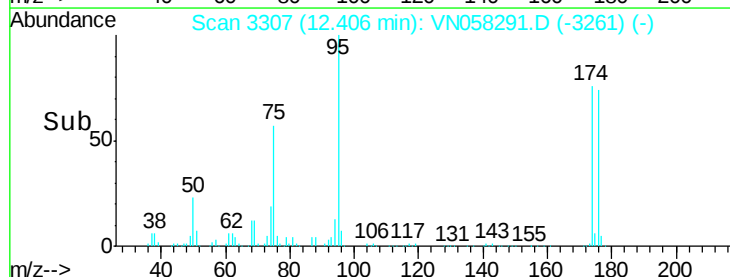
75 100

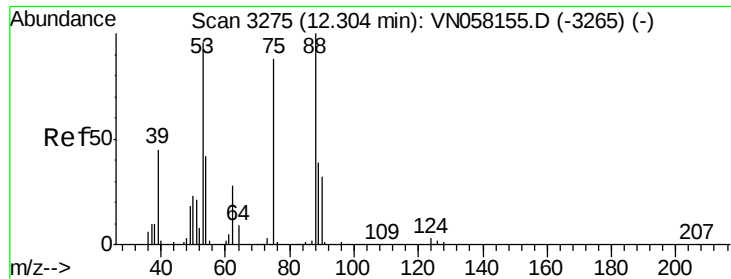
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 101.517 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058291.D

Acq: 23 Sep 2019 14:45

Instrument :

MSVOA\_N

ClientSampleId :

985-S-5-(19)ME

Tot Ion: 75 Resp: 177014

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

