

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\  
 Data File : VN063519.D  
 Acq On : 22 Sep 2020 5:41  
 Operator : JC/MD  
 Sample : L4082-14  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP01-20200915

Quant Time: Sep 22 09:40:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

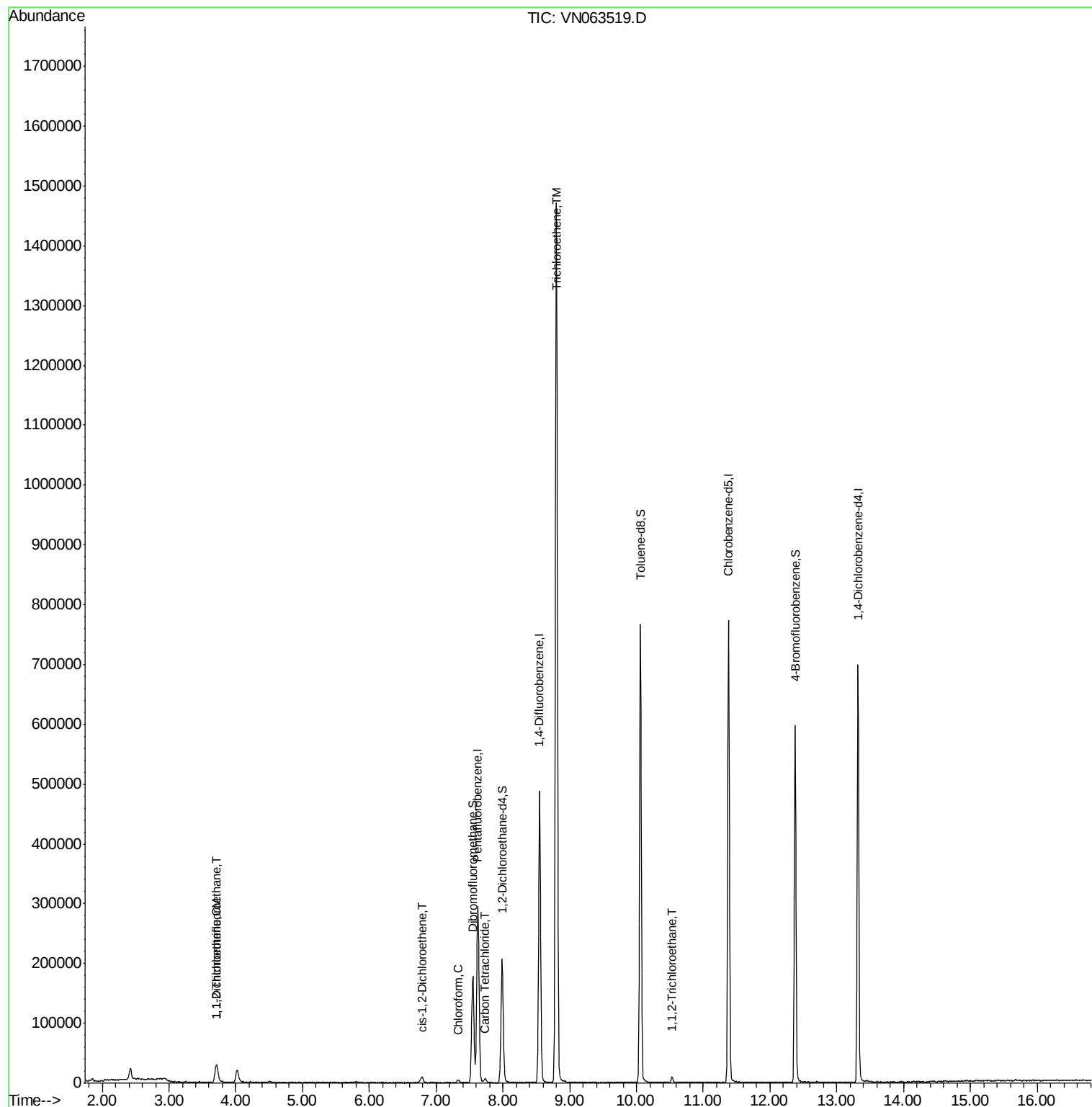
| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.63  | 168  | 219478   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.55  | 114  | 409696   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.38 | 117  | 404176   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.32 | 152  | 169504   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 7.99  | 65   | 180947   | 48.43   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 96.86%  |          |
| 35) Dibromofluoromethane      | 7.55  | 113  | 130923   | 46.16   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 92.32%  |          |
| 50) Toluene-d8                | 10.06 | 98   | 515556   | 48.34   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 96.68%  |          |
| 62) 4-Bromofluorobenzene      | 12.38 | 95   | 201230   | 51.47   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 102.94% |          |
| Target Compounds              |       |      |          |         |         |          |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72  | 101  | 12101    | 4.949   | ug/l    | 99       |
| 12) 1,1-Dichloroethene        | 3.70  | 96   | 8067     | 3.257   | ug/l #  | 93       |
| 27) cis-1,2-Dichloroethene    | 6.78  | 96   | 5177     | 1.667   | ug/l    | 86       |
| 30) Chloroform                | 7.33  | 83   | 4315     | 0.788   | ug/l    | 97       |
| 38) Carbon Tetrachloride      | 7.73  | 117  | 5219     | 1.171   | ug/l    | 93       |
| 44) Trichloroethene           | 8.80  | 130  | 487189   | 161.212 | ug/l    | 98       |
| 55) 1,1,2-Trichloroethane     | 10.53 | 97   | 2762     | 0.928   | ug/l #  | 85       |

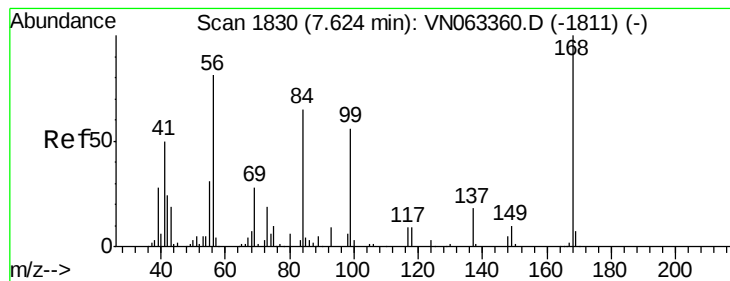
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA\_N

ClientSampleId :

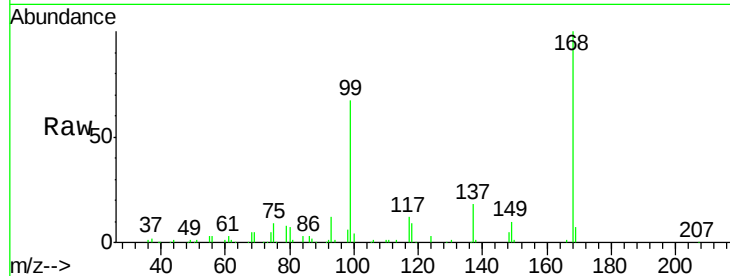
DUP01-20200915

Tot Ion:168 Resp: 219478

Ion Ratio Lower Upper

168 100

99 67.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

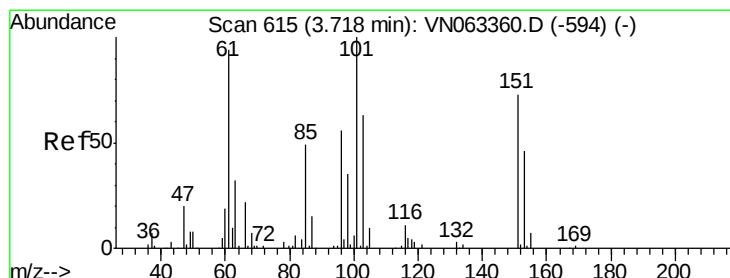
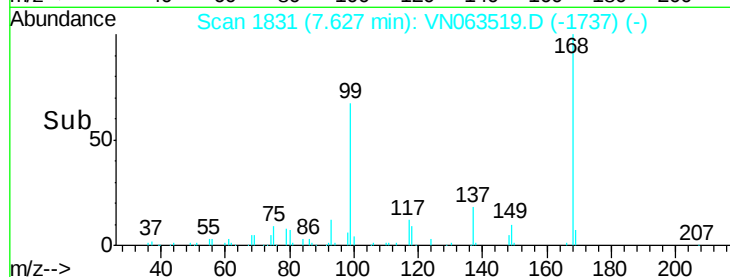
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.949 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

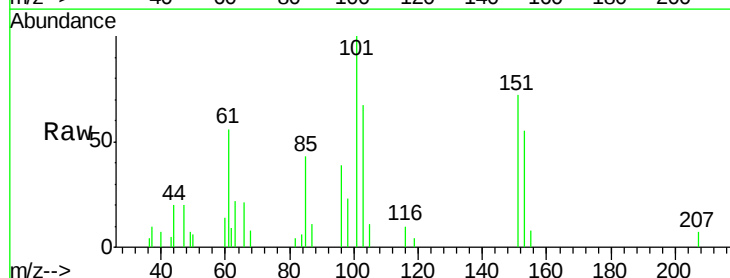
Tgt Ion:101 Resp: 12101

Ion Ratio Lower Upper

101 100

85 46.7 37.7 56.5

151 73.8 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

3.72

5000

4000

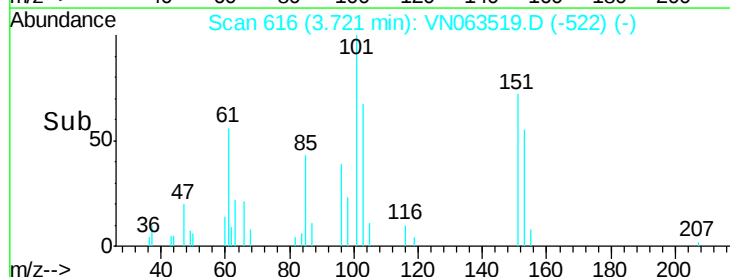
3000

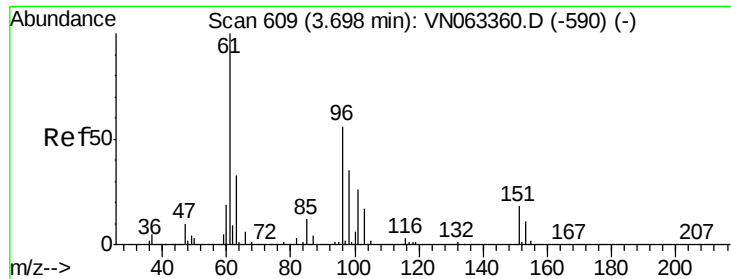
2000

1000

0

Time--> 3.65 3.70 3.75 3.80





#12

1,1-Dichloroethene

Concen: 3.257 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA\_N

ClientSampleId :

DUP01-20200915

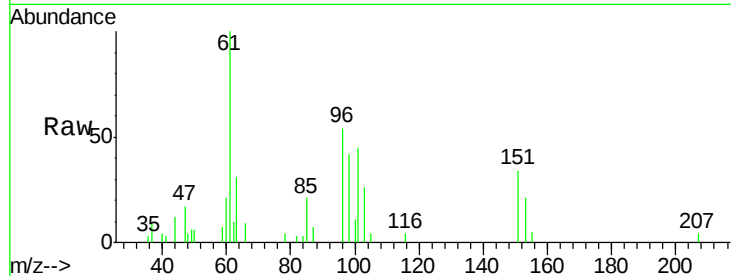
Tot Ion: 96 Resp: 8067

Ion Ratio Lower Upper

96 100

61 183.5 143.4 215.2

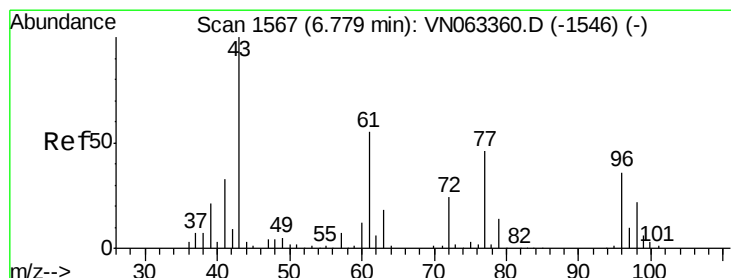
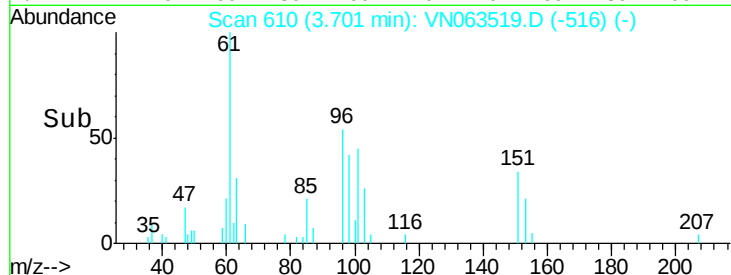
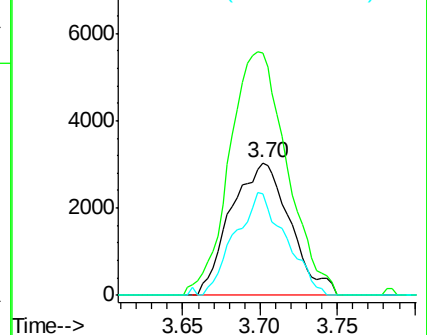
98 77.1 50.6 76.0#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 1.667 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

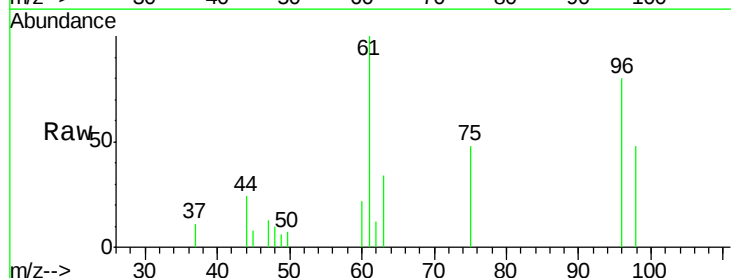
Tgt Ion: 96 Resp: 5177

Ion Ratio Lower Upper

96 100

61 134.8 0.0 319.6

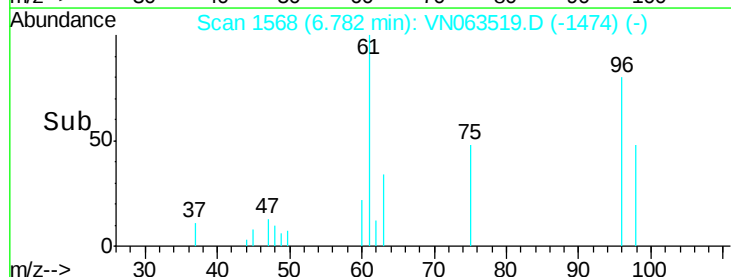
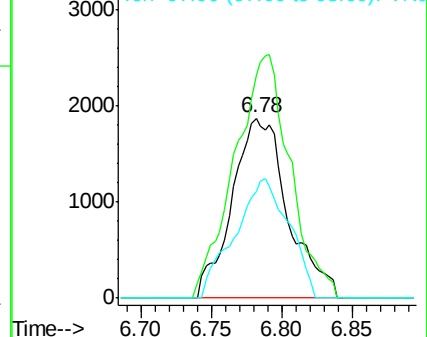
98 64.2 0.0 127.8

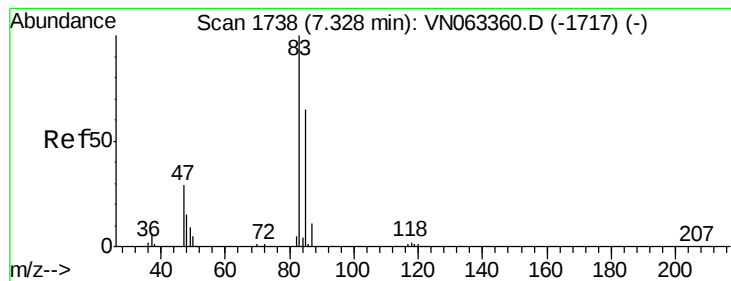


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#30

Chloroform

Concen: 0.788 ug/l

RT: 7.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA\_N

ClientSampleId :

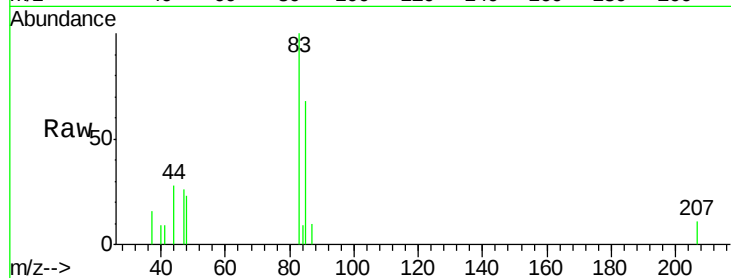
DUP01-20200915

Tot Ion: 83 Resp: 4315

Ion Ratio Lower Upper

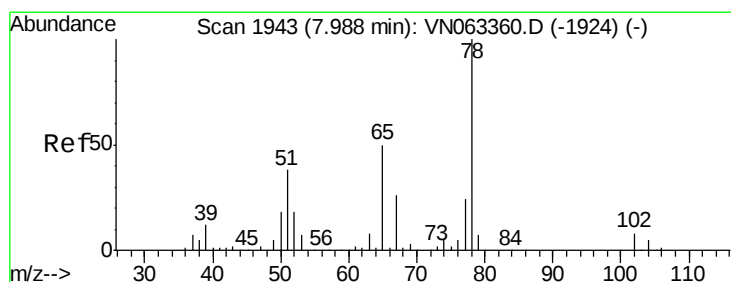
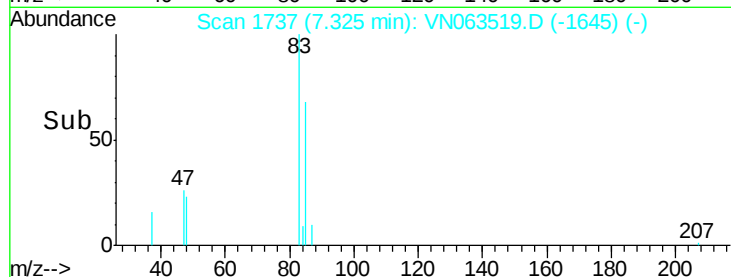
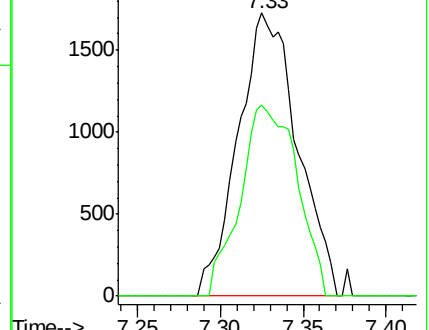
83 100

85 67.7 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VN063360.D (-1717) (-)

Ion 84.90 (84.60 to 85.60): VN063360.D (-1717) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.432 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063519.D

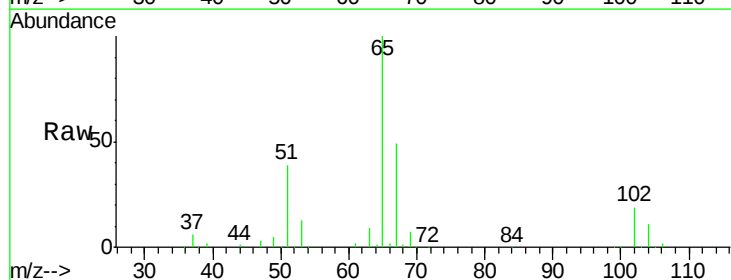
Acq: 22 Sep 2020 5:41

Tgt Ion: 65 Resp: 180947

Ion Ratio Lower Upper

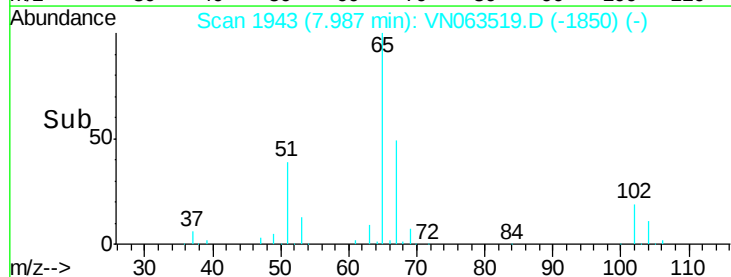
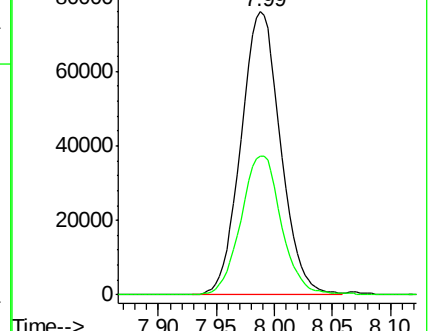
65 100

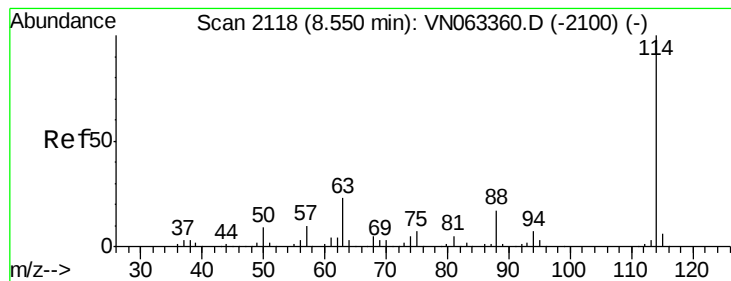
67 50.0 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA\_N

ClientSampleId :

DUP01-20200915

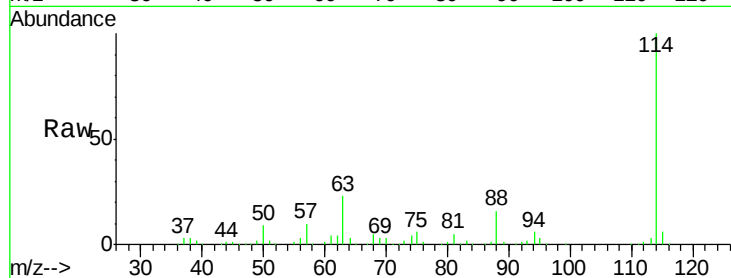
Tot Ion:114 Resp: 409696

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.4

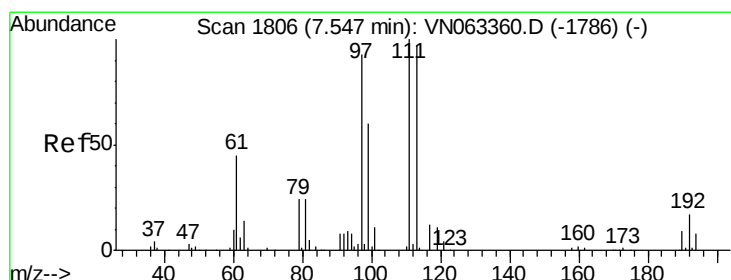
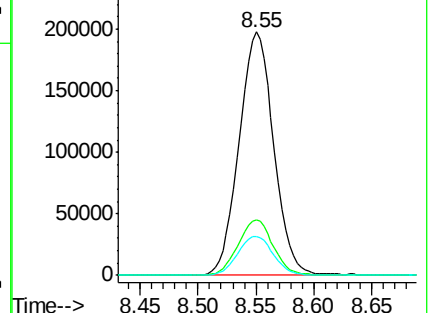
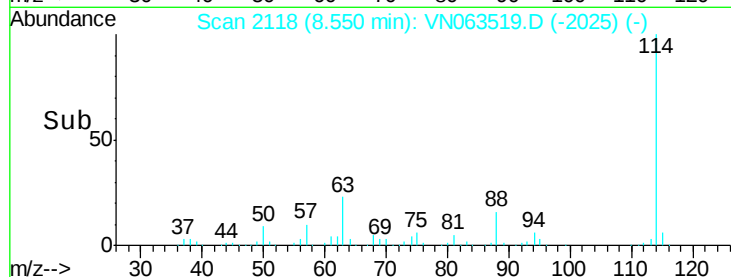
88 16.1 0.0 33.2



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: 46.161 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

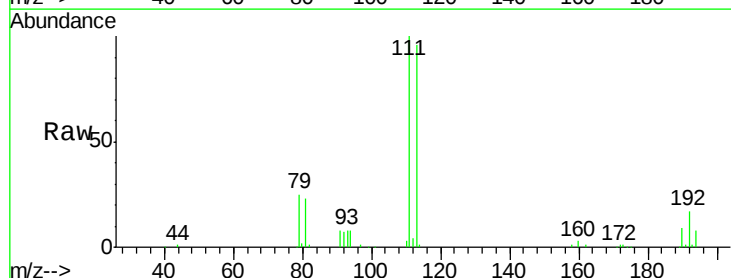
Tgt Ion:113 Resp: 130923

Ion Ratio Lower Upper

113 100

111 105.2 82.9 124.3

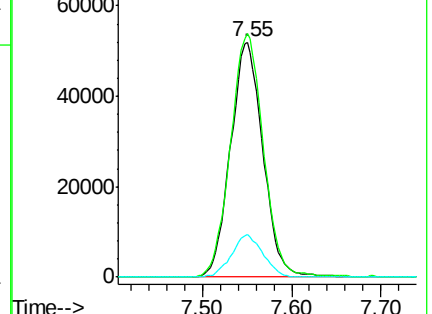
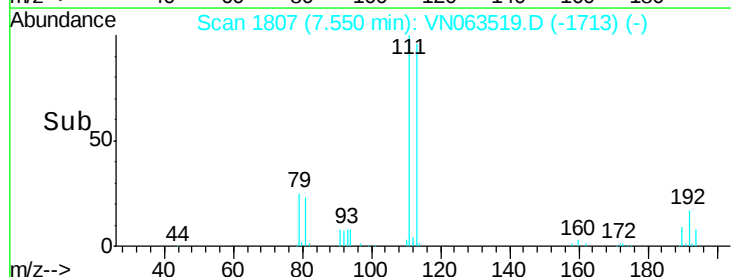
192 17.4 13.9 20.9

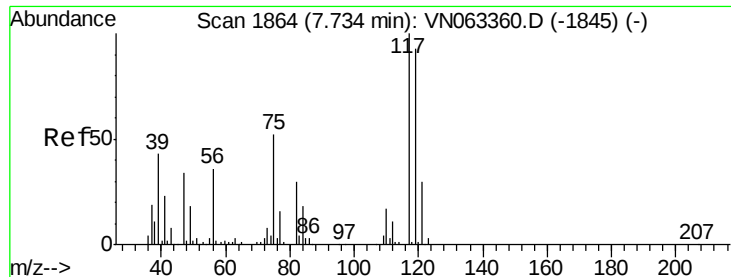


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

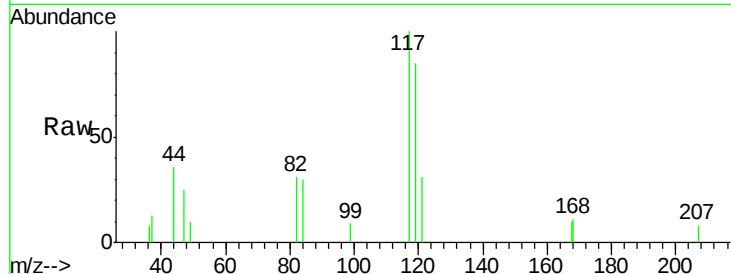




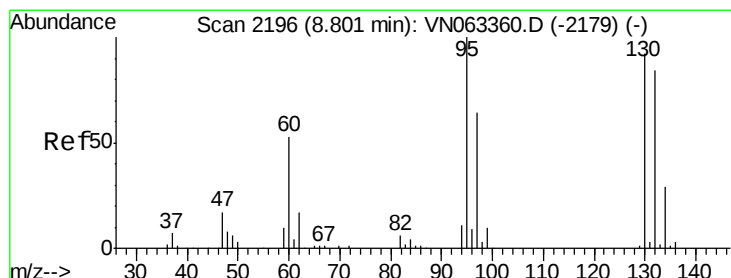
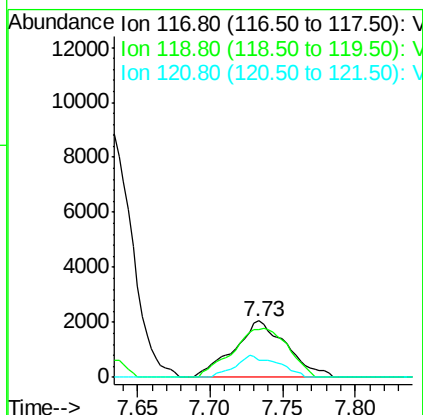
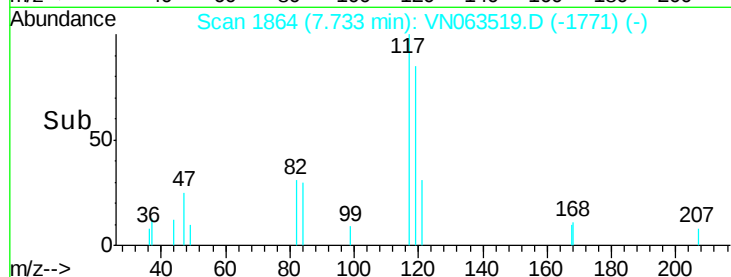
#38  
Carbon Tetrachloride  
Concen: 1.171 ug/l  
RT: 7.73 min Scan# 1864  
Delta R.T. -0.00 min  
Lab File: VN063519.D  
Acq: 22 Sep 2020 5:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP01-20200915

Tot Ion:117 Resp: 5219  
Ion Ratio Lower Upper  
117 100  
119 85.1 74.5 111.7  
121 30.5 24.1 36.1

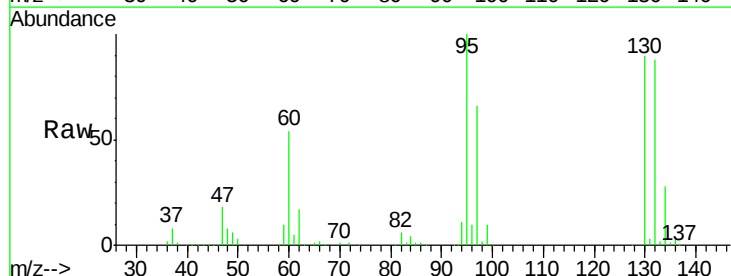


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

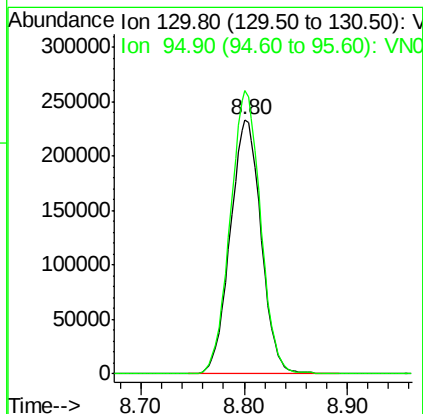
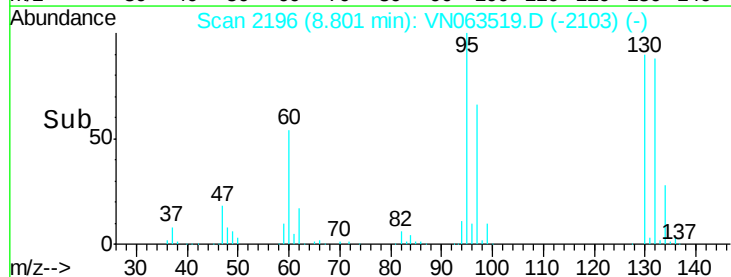


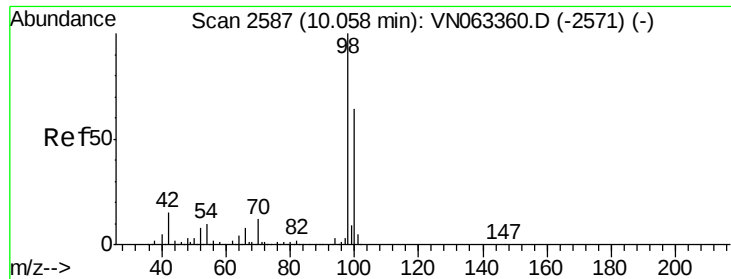
#44  
Trichloroethene  
Concen: 161.212 ug/l  
RT: 8.80 min Scan# 2196  
Delta R.T. -0.00 min  
Lab File: VN063519.D  
Acq: 22 Sep 2020 5:41

Tgt Ion:130 Resp: 487189  
Ion Ratio Lower Upper  
130 100  
95 111.2 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 48.342 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA\_N

ClientSampleId :

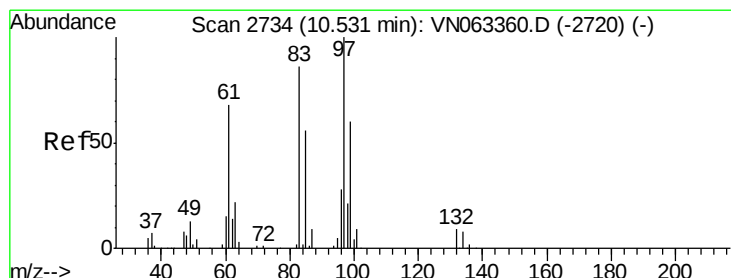
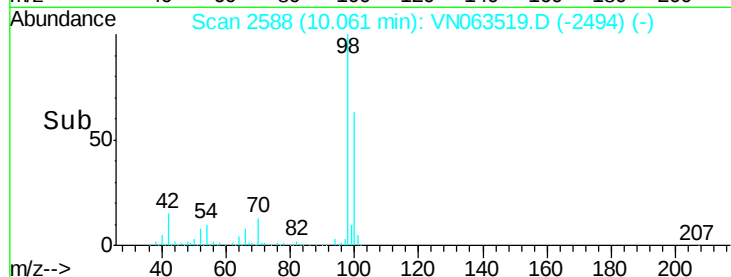
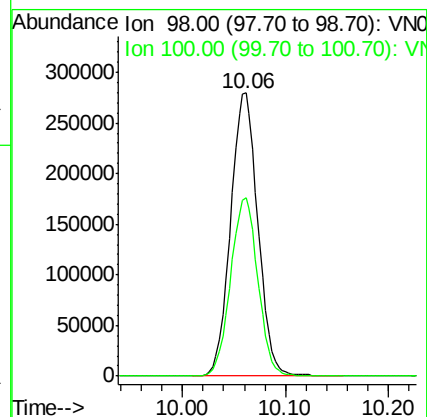
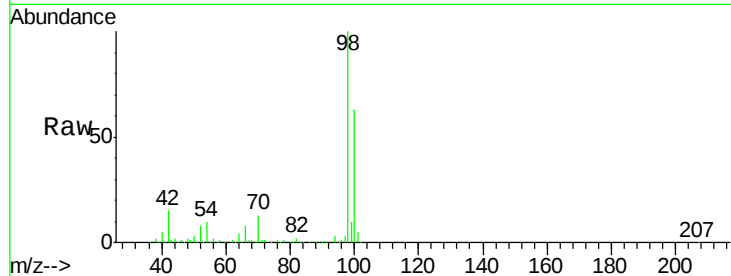
DUP01-20200915

Tot Ion: 98 Resp: 515556

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



#55

1,1,2-Trichloroethane

Concen: 0.928 ug/l

RT: 10.53 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Tgt Ion: 97 Resp: 2762

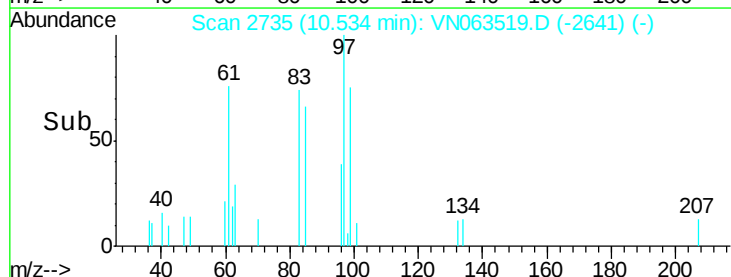
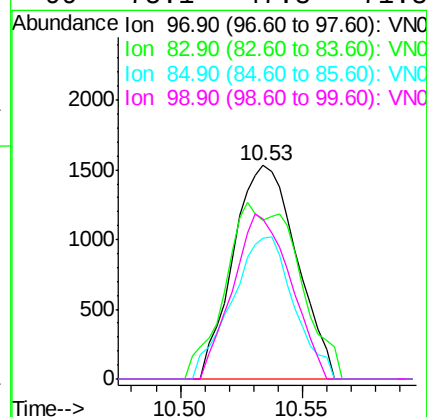
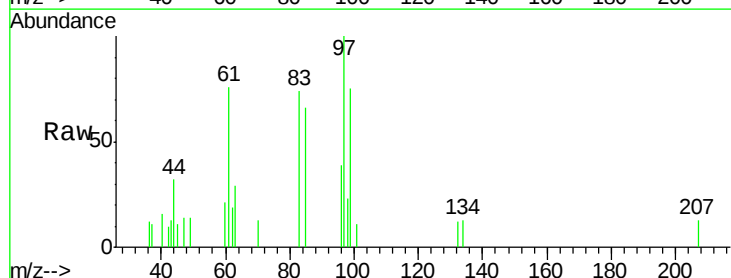
Ion Ratio Lower Upper

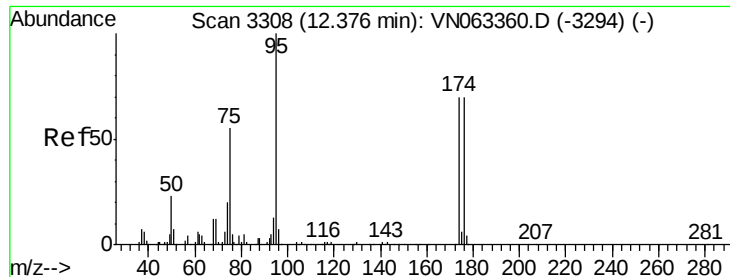
97 100

83 74.5 68.9 103.3

85 65.8 44.8 67.2

99 75.1 47.8 71.8#





#62

4-Bromofluorobenzene

Concen: 51.472 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA\_N

ClientSampleId :

DUP01-20200915

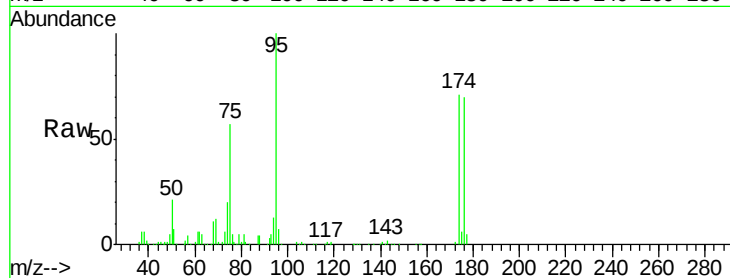
Tot Ion: 95 Resp: 201230

Ion Ratio Lower Upper

95 100

174 72.6 0.0 140.8

176 70.0 0.0 137.6



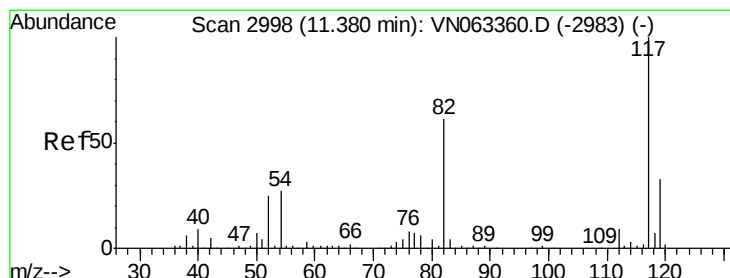
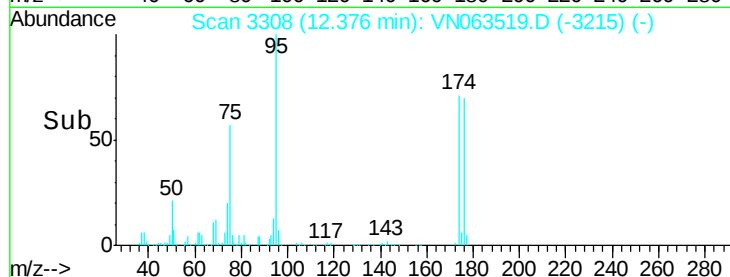
Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)

12.38

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

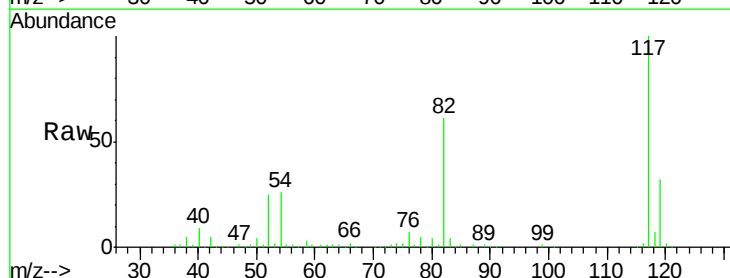
Tgt Ion: 117 Resp: 404176

Ion Ratio Lower Upper

117 100

82 60.5 49.2 73.8

119 31.5 26.2 39.4



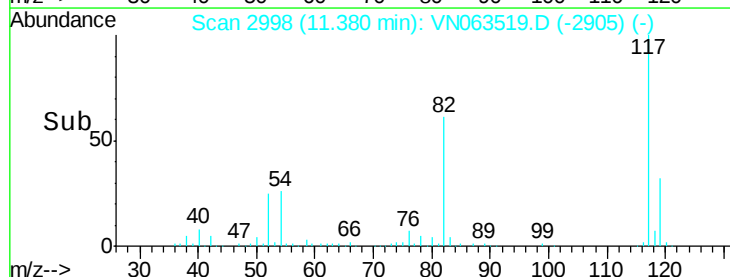
Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

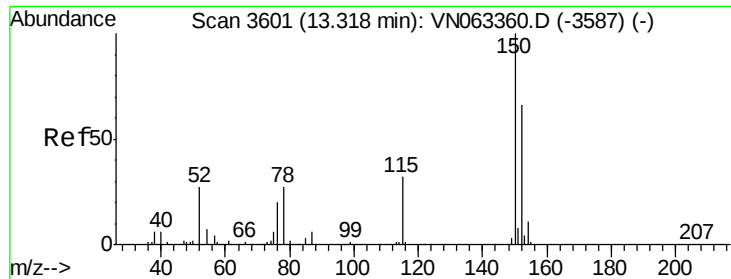
Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)

11.38

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063519.D

Acq: 22 Sep 2020 5:41

Instrument :

MSVOA\_N

ClientSampleId :

DUP01-20200915

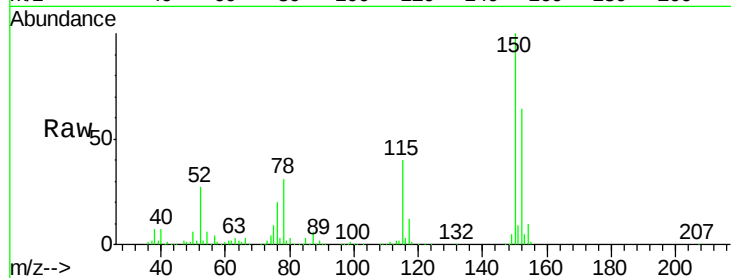
Tot Ion:152 Resp: 169504

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

150 158.4 0.0 343.4



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

