

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062420\  
 Data File : VN062068.D  
 Acq On : 24 Jun 2020 17:24  
 Operator : JC/MD  
 Sample : L3077-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Jun 25 04:30:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 24 15:33:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 214604   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 397583   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 381220   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 140432   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 150074   | 49.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.66%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 128754   | 50.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.96% |          |
| 50) Toluene-d8              | 10.06 | 98   | 500152   | 49.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.10%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 160427   | 46.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.14%  |          |

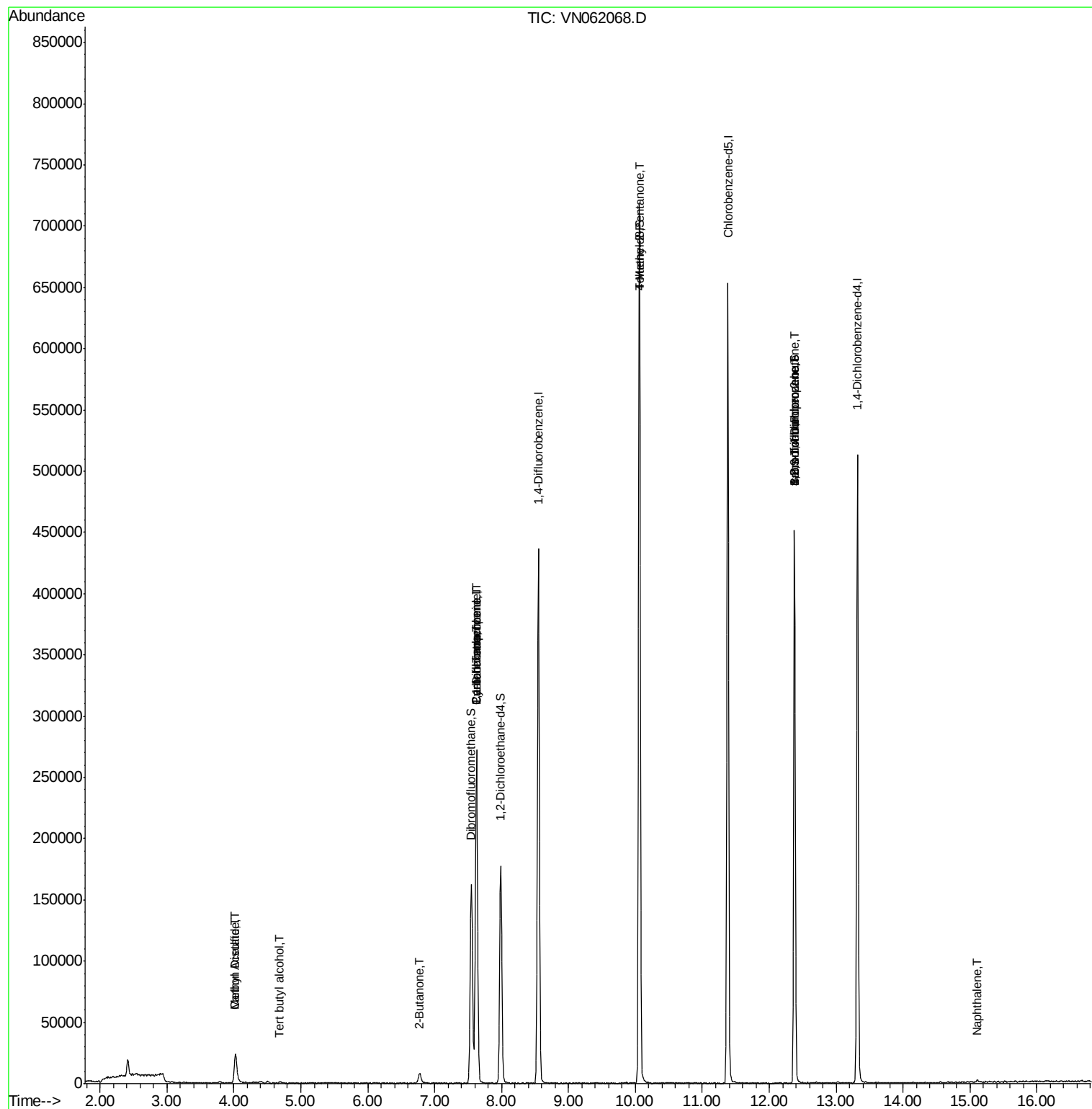
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.03  | 50   | 621      | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 4.69  | 59   | 645      | 1.492     | ug/l # | 72     |
| 16) Acetone                    | 3.79  | 43   | 2397     | Below Cal |        | 94     |
| 17) Carbon Disulfide           | 4.01  | 76   | 1508     | 0.264     | ug/l # | 75     |
| 18) Methyl Acetate             | 4.02  | 43   | 10572    | 4.416     | ug/l # | 46     |
| 25) 2-Butanone                 | 6.78  | 43   | 307      | 0.209     | ug/l # | 44     |
| 31) Cyclohexane                | 7.63  | 56   | 5003     | 1.202     | ug/l # | 29     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 17881    | 4.474     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 22377    | 5.939     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.06 | 43   | 2125     | 0.674     | ug/l # | 1      |
| 71) Bromoform                  | 12.38 | 173  | 1582     | 0.769     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 82885    | 25.072    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 82885    | 73.220    | ug/l # | 13     |
| 95) Naphthalene                | 15.11 | 128  | 2033     | 4.274     | ug/l # | 79     |

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

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ALS Vial : 17 Sample Multiplier: 1

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STORAGE-BLANK-SOIL-REF-6

Quant Time: Jun 25 04:30:22 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 24 15:33:00 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062068.D

Acq: 24 Jun 2020 17:24

Instrument :

MSVOA\_N

ClientSampleId :

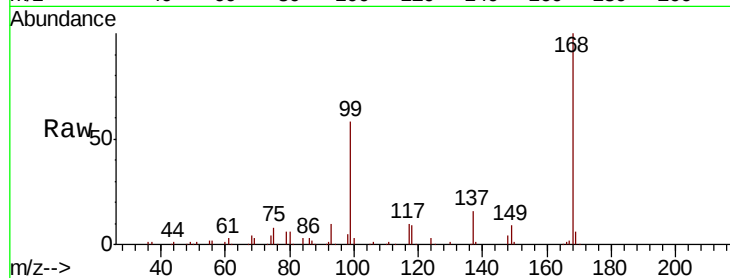
STORAGE-BLANK-SOIL-REF-6

Tot Ion:168 Resp: 214604

Ion Ratio Lower Upper

168 100

99 57.9 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

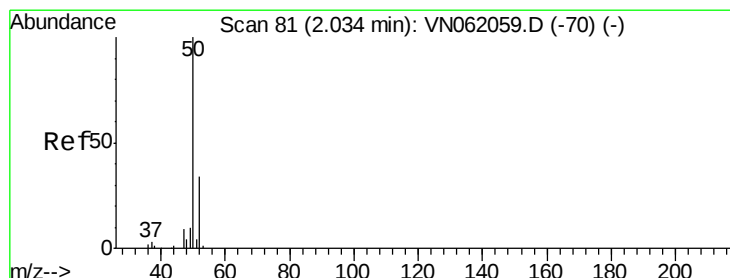
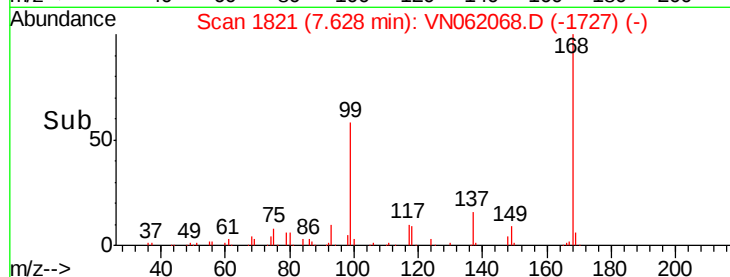
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062068.D

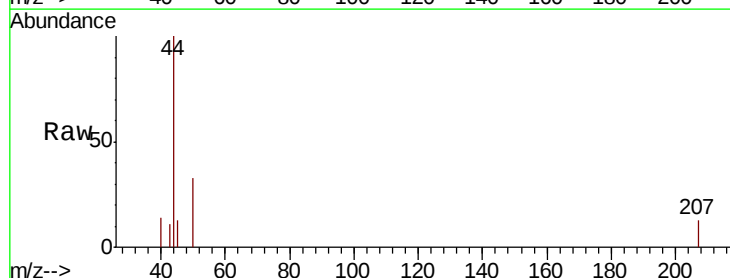
Acq: 24 Jun 2020 17:24

Tgt Ion: 50 Resp: 621

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

600

500

400

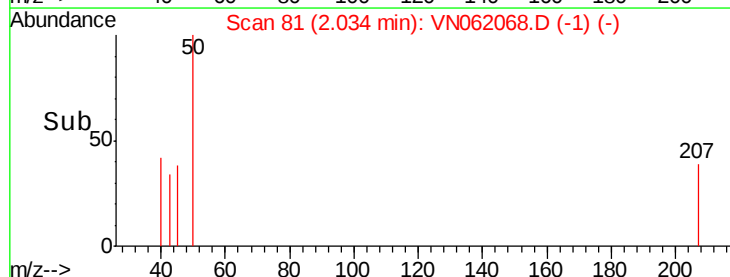
300

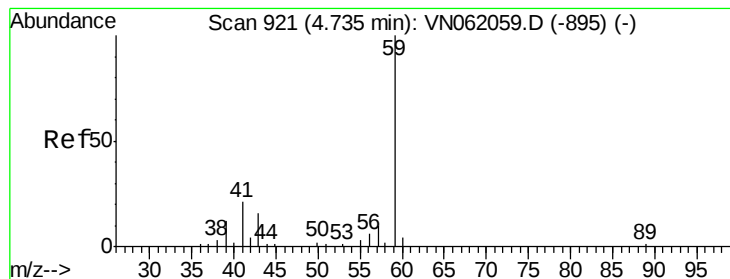
200

100

0

Time--> 2.00 2.02 2.04 2.06



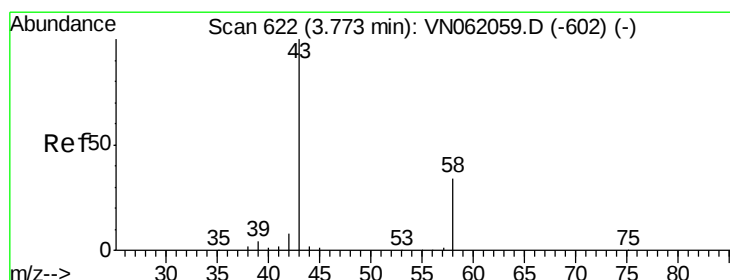
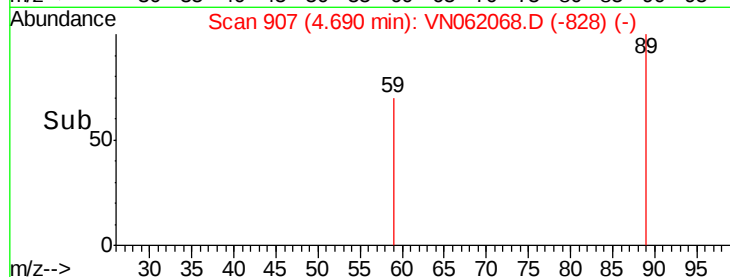
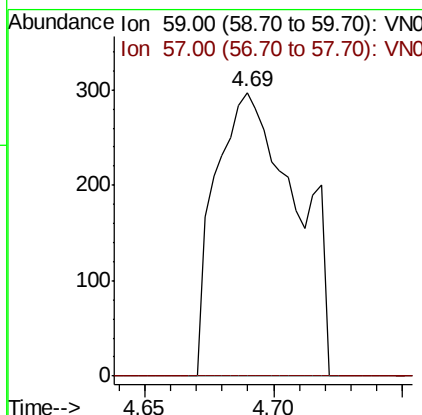
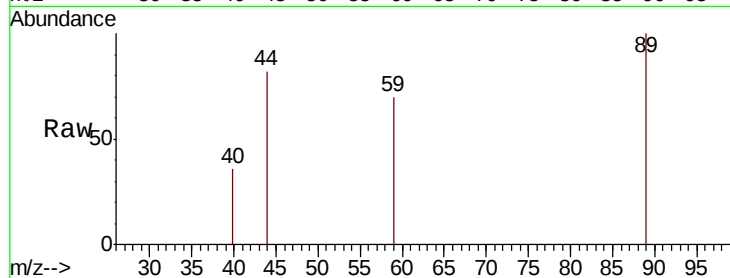


#11

Tert butyl alcohol  
 Concen: 1.492 ug/l  
 RT: 4.69 min Scan# 907  
 Delta R.T. -0.05 min  
 Lab File: VN062068.D  
 Acq: 24 Jun 2020 17:24

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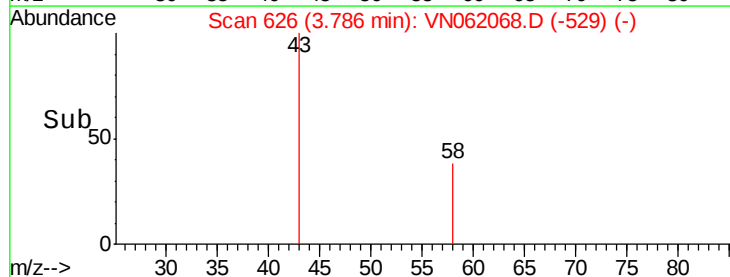
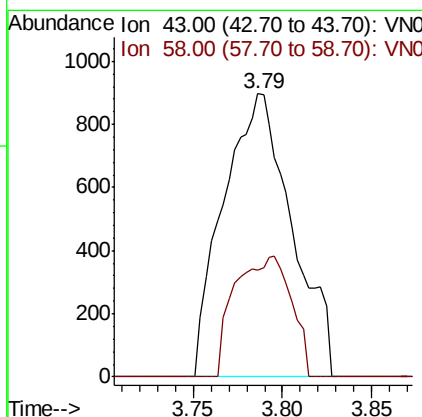
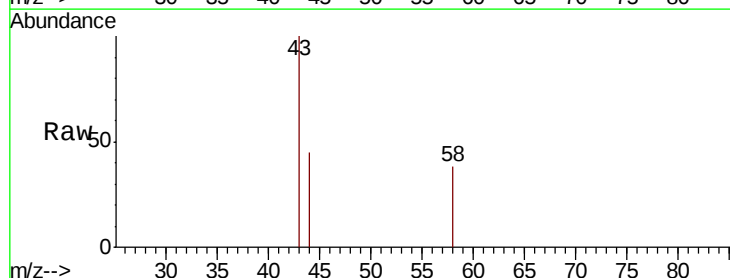
Tot Ion: 59 Resp: 645  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

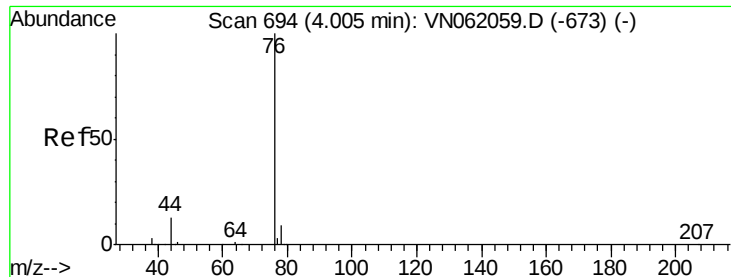


#16

Acetone  
 Concen: Below Cal  
 RT: 3.79 min Scan# 626  
 Delta R.T. 0.01 min  
 Lab File: VN062068.D  
 Acq: 24 Jun 2020 17:24

Tgt Ion: 43 Resp: 2397  
 Ion Ratio Lower Upper  
 43 100  
 58 37.8 27.5 41.3





#17

Carbon Disulfide

Concen: 0.264 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN062068.D

Acq: 24 Jun 2020 17:24

Instrument :

MSVOA\_N

ClientSampleId :

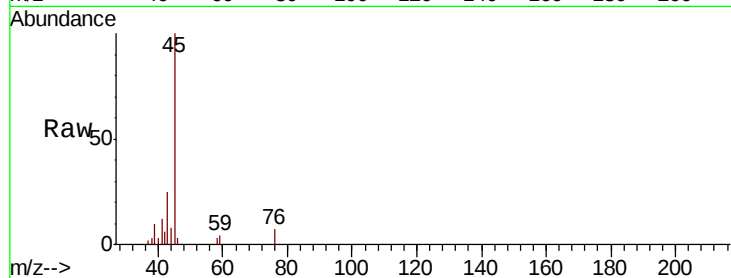
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 76 Resp: 1508

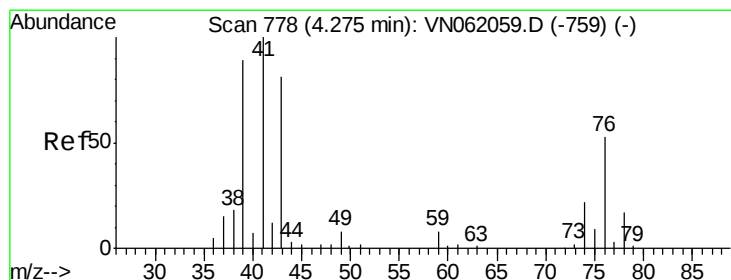
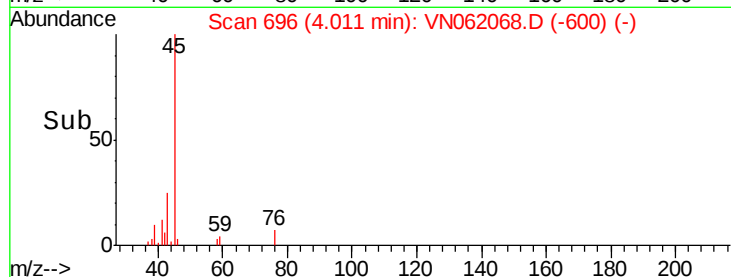
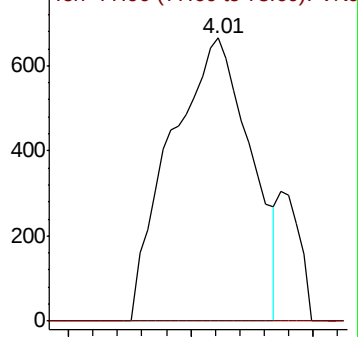
Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062059.D (-673) (-)



#18

Methyl Acetate

Concen: 4.416 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.25 min

Lab File: VN062068.D

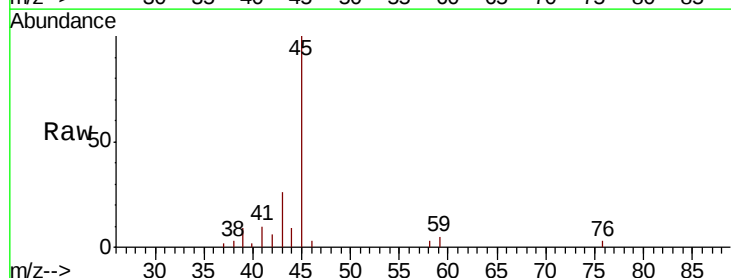
Acq: 24 Jun 2020 17:24

Tgt Ion: 43 Resp: 10572

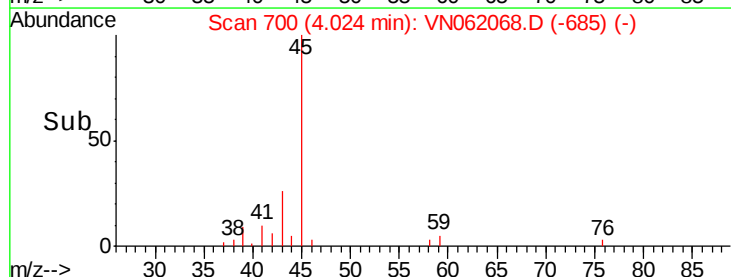
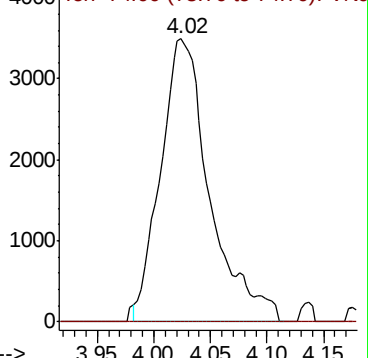
Ion Ratio Lower Upper

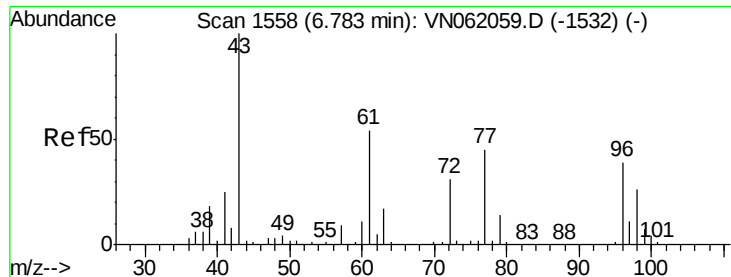
43 100

74 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-759) (-)

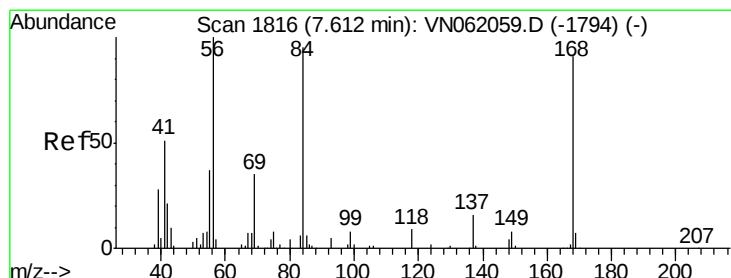
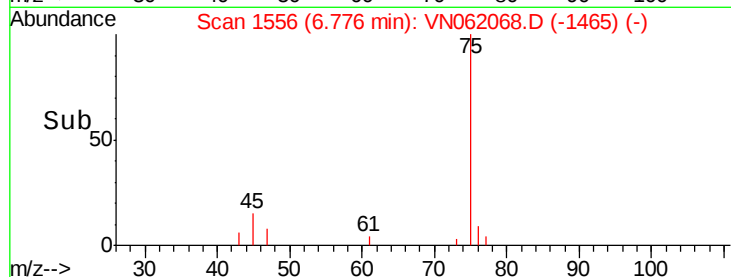
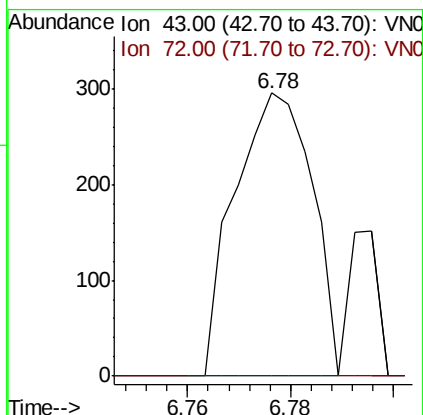
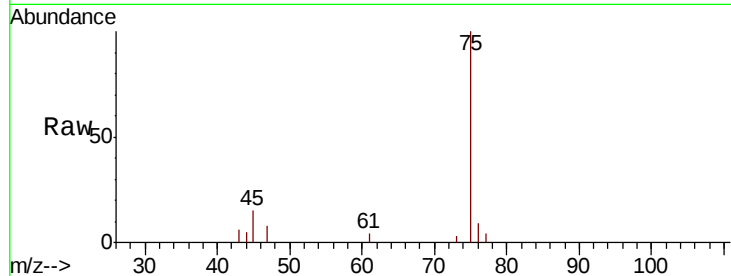




#25  
2-Butanone  
Concen: 0.209 ug/l  
RT: 6.78 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: VN062068.D  
Acq: 24 Jun 2020 17:24

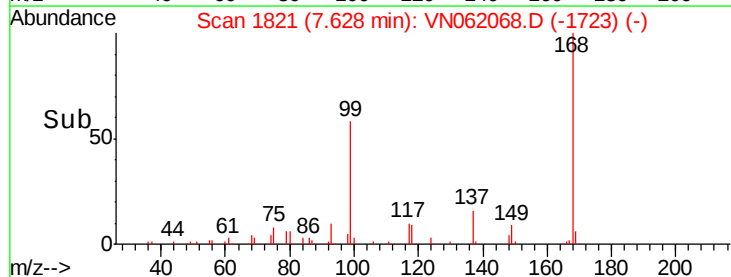
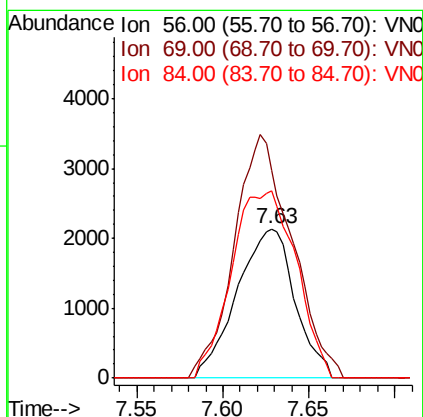
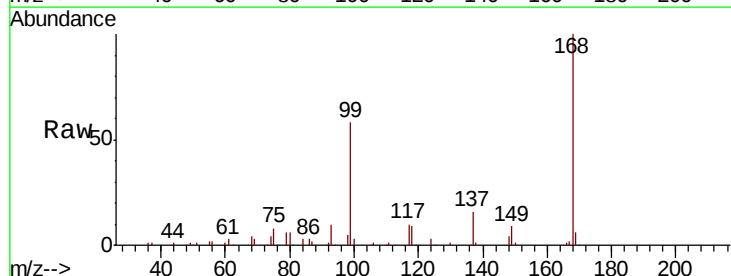
Instrument :  
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STORAGE-BLANK-SOIL-REF-6

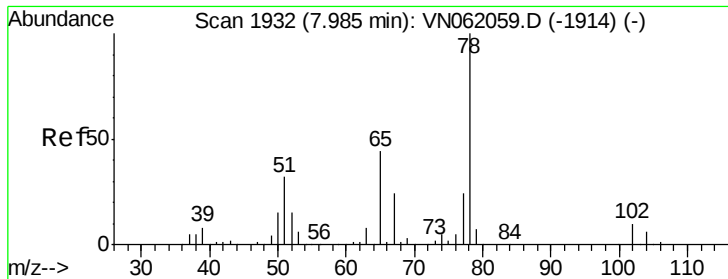
Tot Ion: 43 Resp: 307  
Ion Ratio Lower Upper  
43 100  
72 0.0 24.8 37.2#



#31  
Cyclohexane  
Concen: 1.202 ug/l  
RT: 7.63 min Scan# 1821  
Delta R.T. 0.02 min  
Lab File: VN062068.D  
Acq: 24 Jun 2020 17:24

Tgt Ion: 56 Resp: 5003  
Ion Ratio Lower Upper  
56 100  
69 139.4 28.0 42.0#  
84 125.7 76.1 114.1#

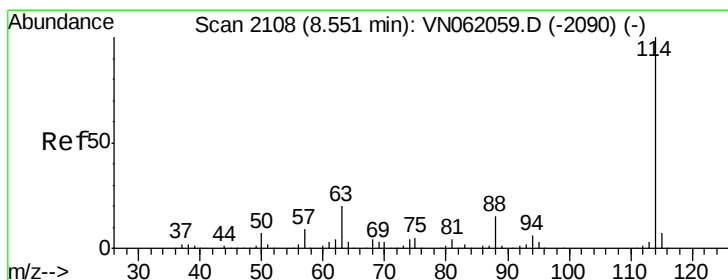
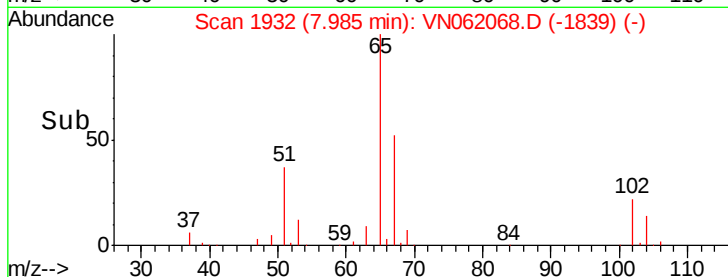
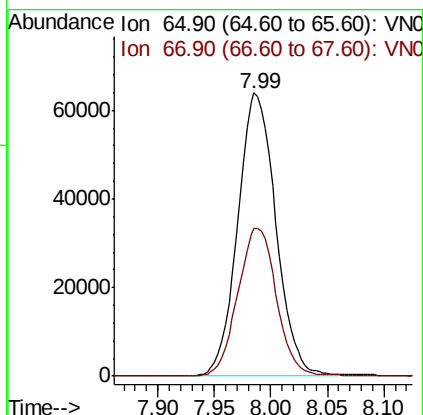
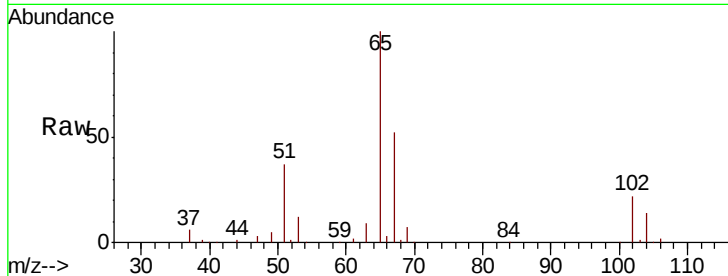




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.832 ug/l  
 RT: 7.99 min Scan# 1932  
 Delta R.T. -0.00 min  
 Lab File: VN062068.D  
 Acq: 24 Jun 2020 17:24

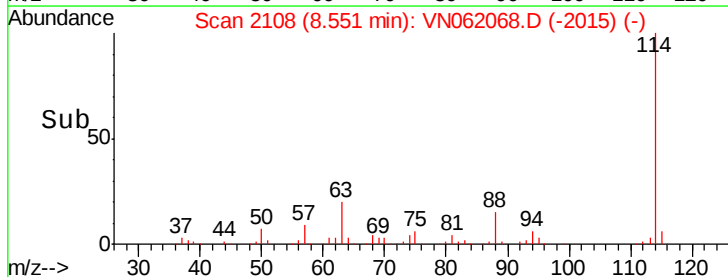
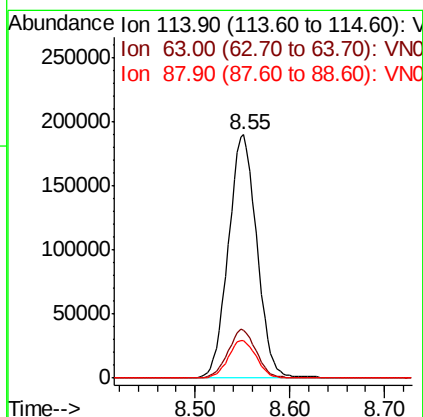
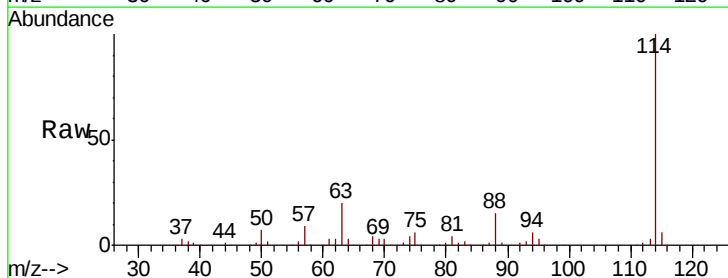
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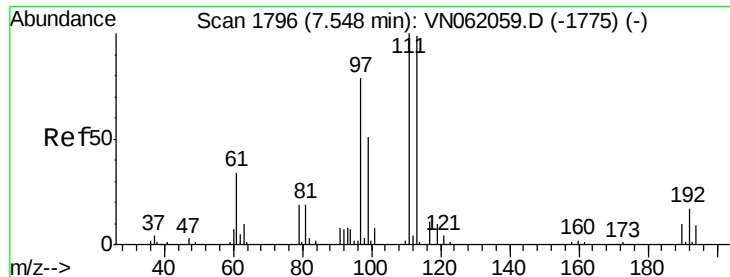
Tot Ion: 65 Resp: 150074  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN062068.D  
 Acq: 24 Jun 2020 17:24

Tgt Ion: 114 Resp: 397583  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 39.2  
 88 15.4 0.0 30.8

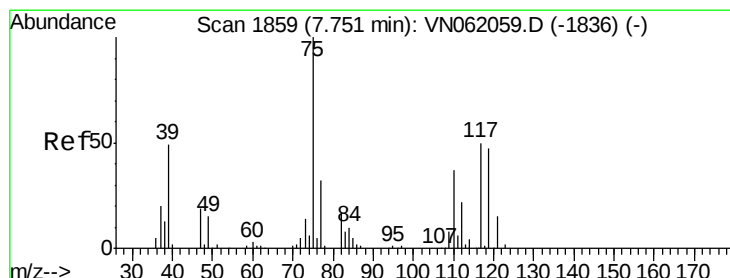
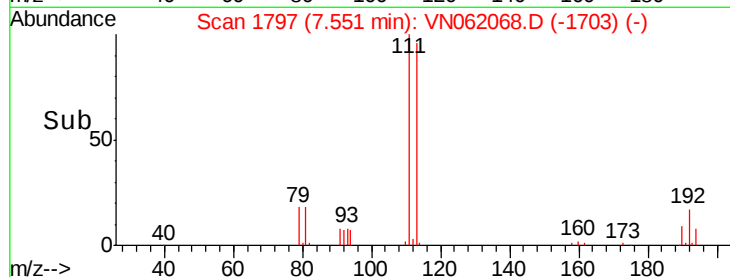
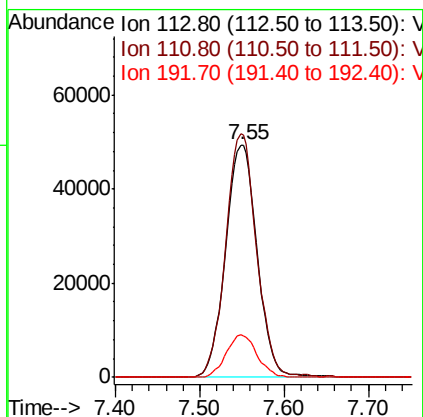
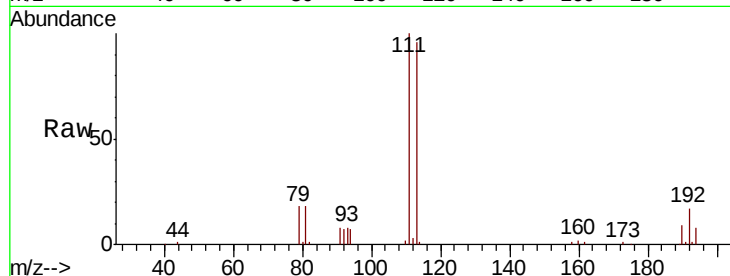




#35  
 Dibromofluoromethane  
 Concen: 50.478 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. 0.00 min  
 Lab File: VN062068.D  
 Acq: 24 Jun 2020 17:24

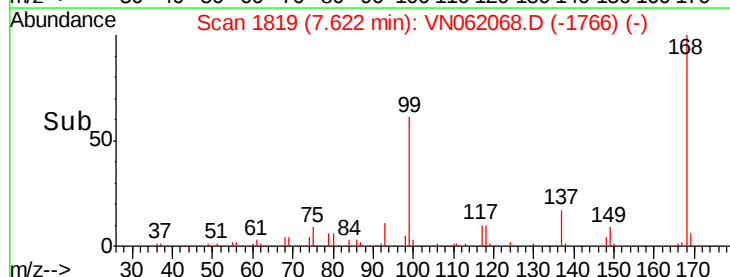
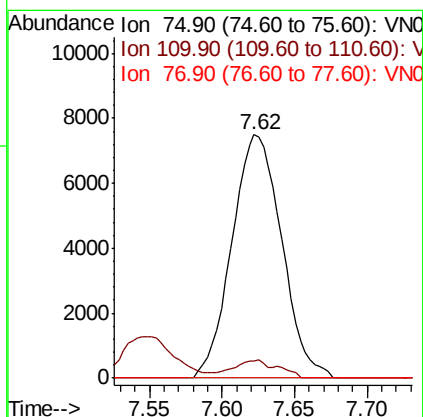
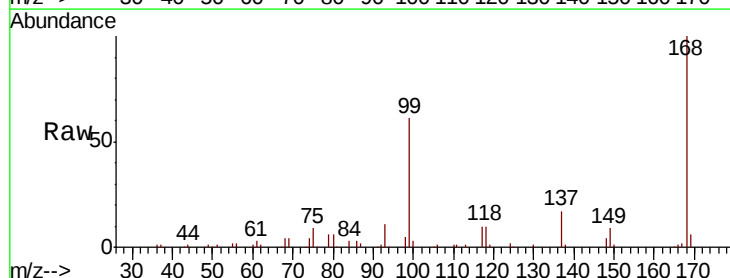
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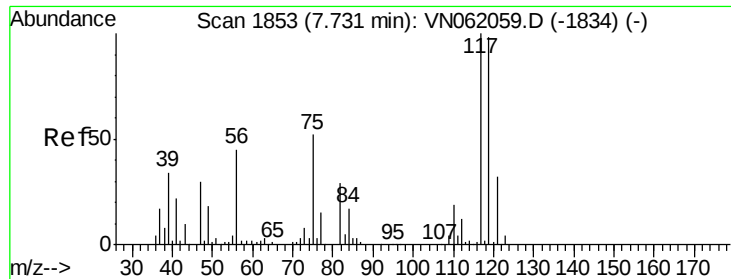
Tot Ion:113 Resp: 128754  
 Ion Ratio Lower Upper  
 113 100  
 111 101.8 82.2 123.4  
 192 17.9 14.0 21.0



#36  
 1,1-Dichloropropene  
 Concen: 4.474 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.13 min  
 Lab File: VN062068.D  
 Acq: 24 Jun 2020 17:24

Tgt Ion: 75 Resp: 17881  
 Ion Ratio Lower Upper  
 75 100  
 110 6.7 17.9 53.8#  
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 5.939 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062068.D

Acq: 24 Jun 2020 17:24

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

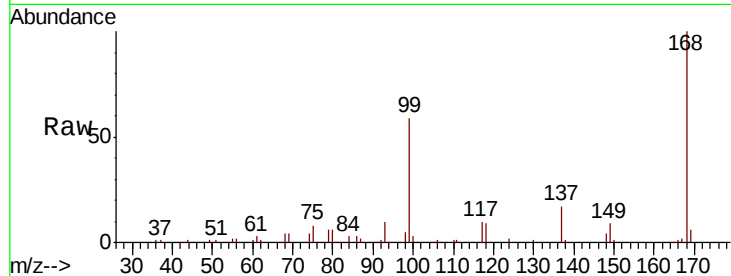
Tot Ion:117 Resp: 22377

Ion Ratio Lower Upper

117 100

119 4.9 78.2 117.2#

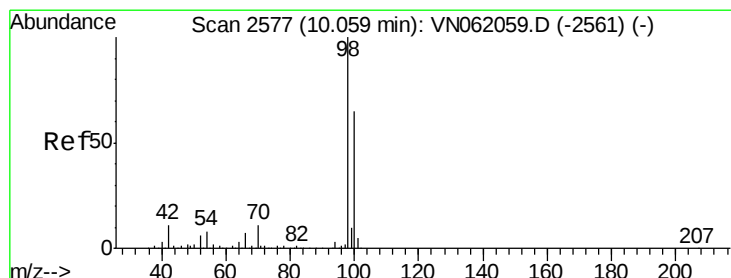
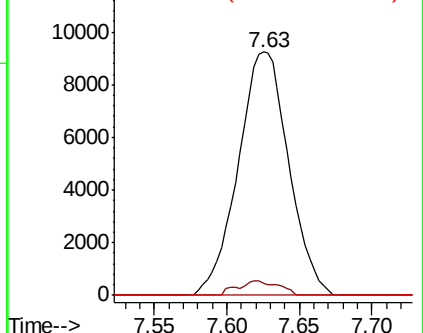
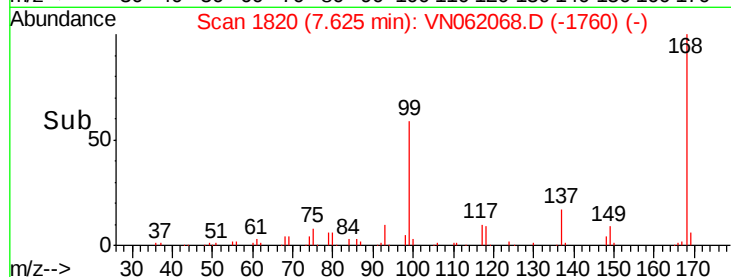
121 0.0 25.8 38.6#



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



#50

Toluene-d8

Concen: 49.054 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062068.D

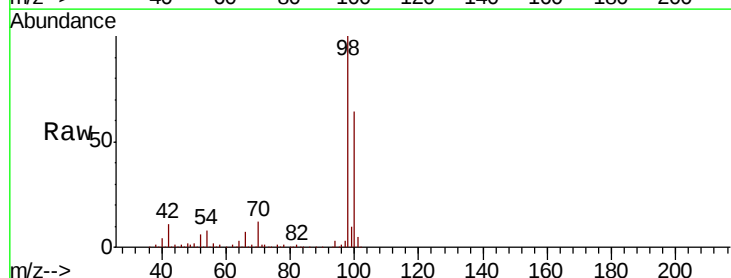
Acq: 24 Jun 2020 17:24

Tgt Ion: 98 Resp: 500152

Ion Ratio Lower Upper

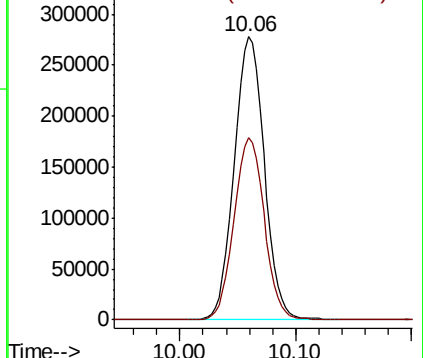
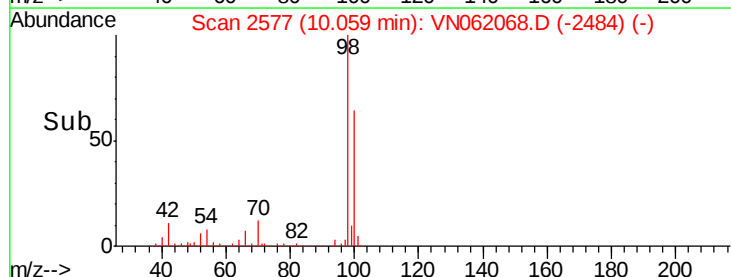
98 100

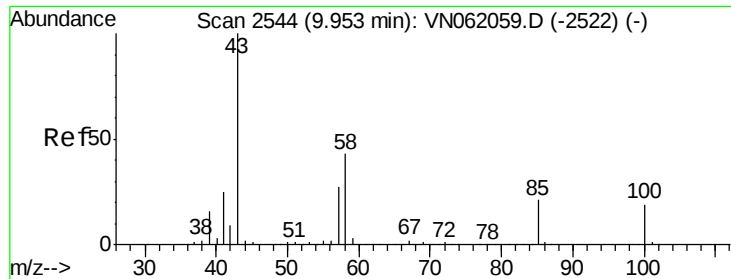
100 65.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.674 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN062068.D

Acq: 24 Jun 2020 17:24

Instrument :

MSVOA\_N

ClientSampleId :

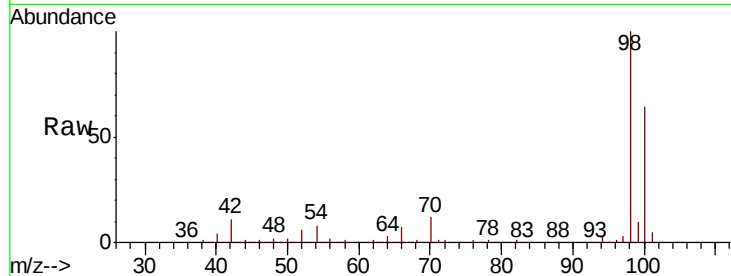
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 43 Resp: 2125

Ion Ratio Lower Upper

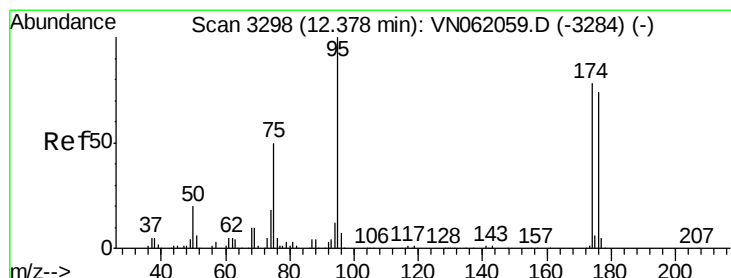
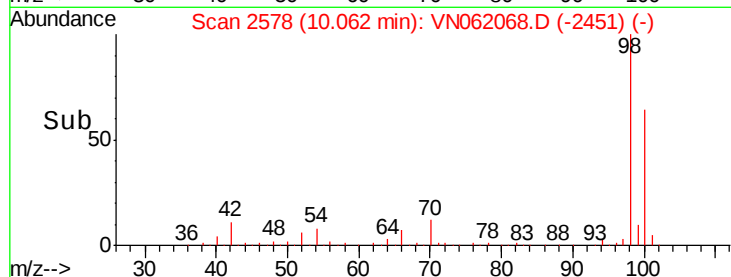
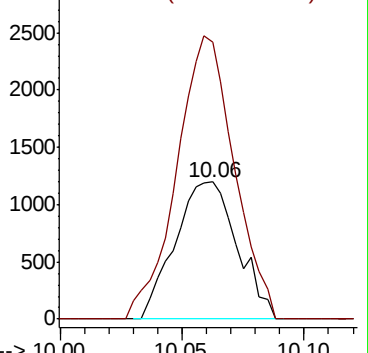
43 100

58 190.1 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-2522) (-)



#62

4-Bromofluorobenzene

Concen: 46.571 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062068.D

Acq: 24 Jun 2020 17:24

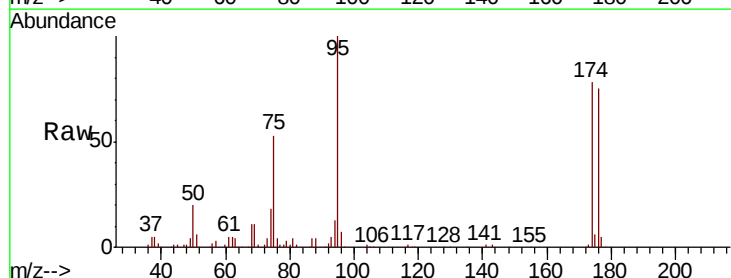
Tgt Ion: 95 Resp: 160427

Ion Ratio Lower Upper

95 100

174 78.1 0.0 154.8

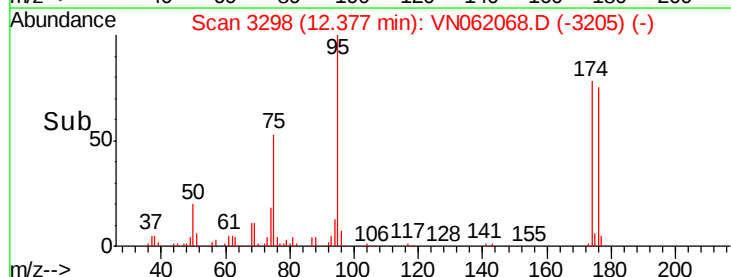
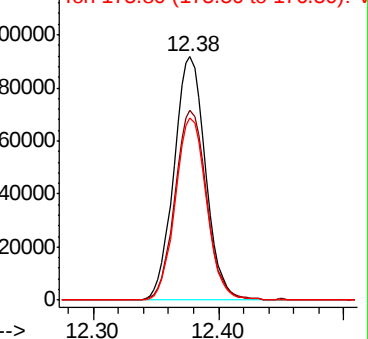
176 74.2 0.0 147.4

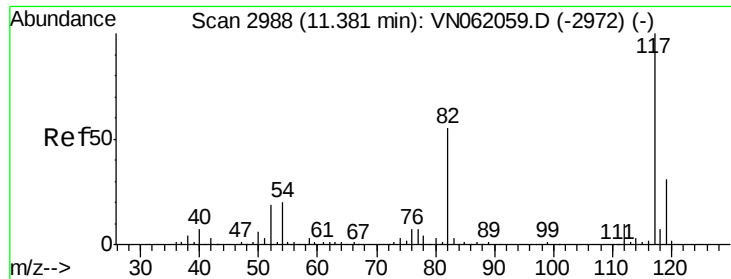


Abundance Ion 94.90 (94.60 to 95.60): VN062059.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062059.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062059.D (-3284) (-)

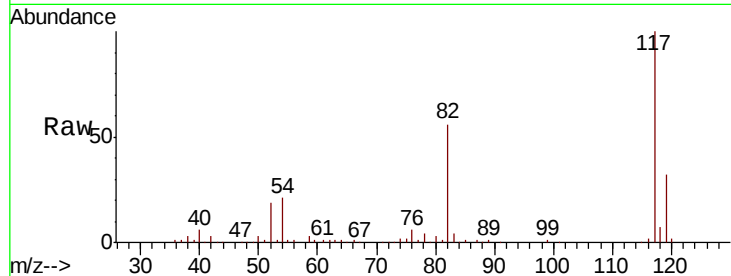




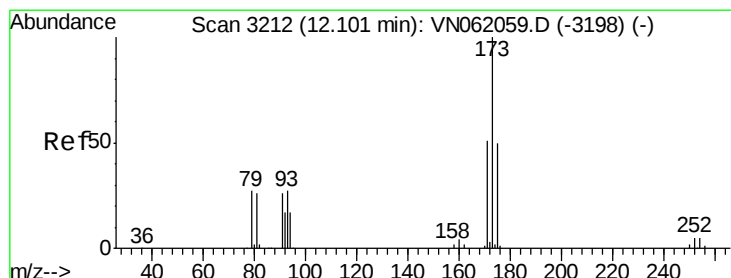
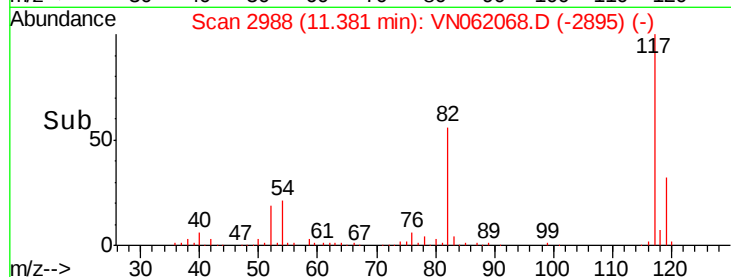
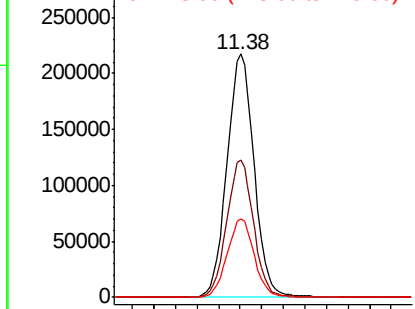
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN062068.D  
Acq: 24 Jun 2020 17:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

Tot Ion:117 Resp: 381220  
Ion Ratio Lower Upper  
117 100  
82 56.3 43.8 65.8  
119 32.1 25.2 37.8

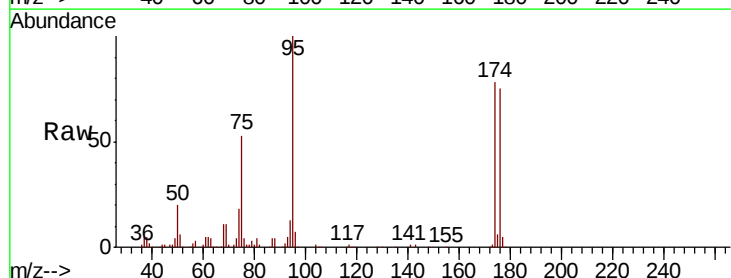


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

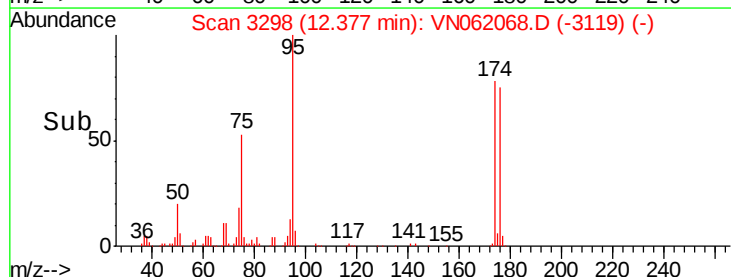
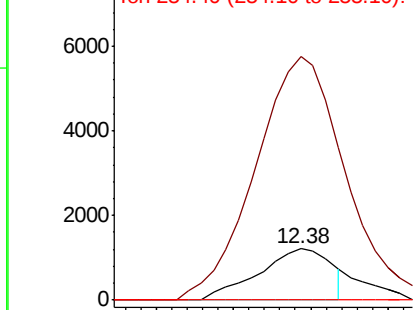


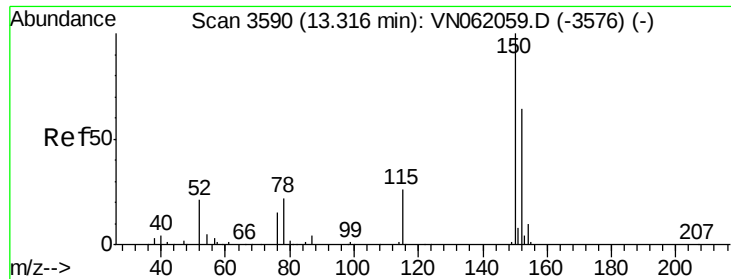
#71  
Bromoform  
Concen: 0.769 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. 0.28 min  
Lab File: VN062068.D  
Acq: 24 Jun 2020 17:24

Tgt Ion:173 Resp: 1582  
Ion Ratio Lower Upper  
173 100  
175 497.3 24.7 74.1#  
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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062068.D

Acq: 24 Jun 2020 17:24

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

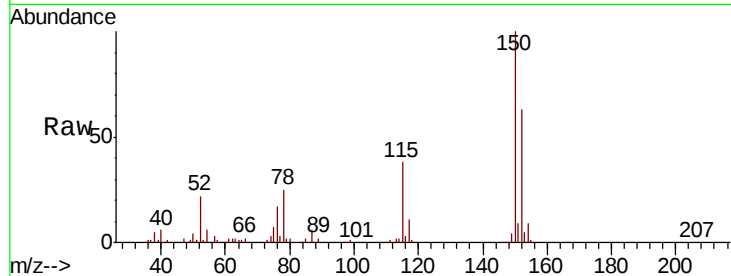
Tot Ion:152 Resp: 140432

Ion Ratio Lower Upper

152 100

115 58.8 29.5 88.5

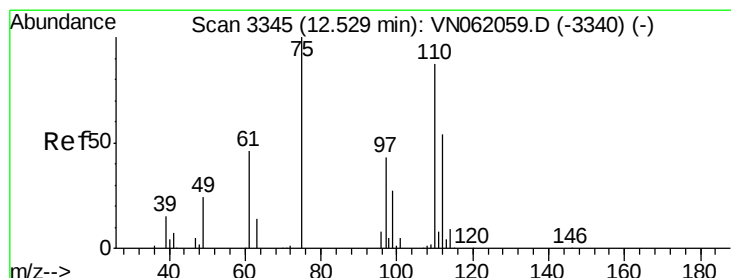
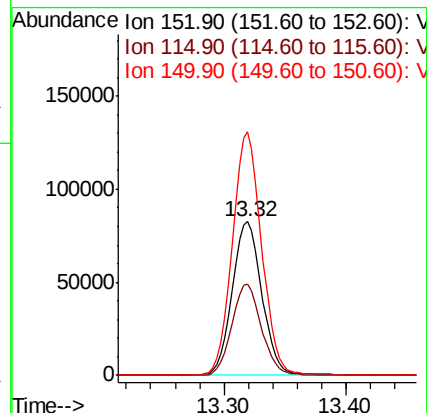
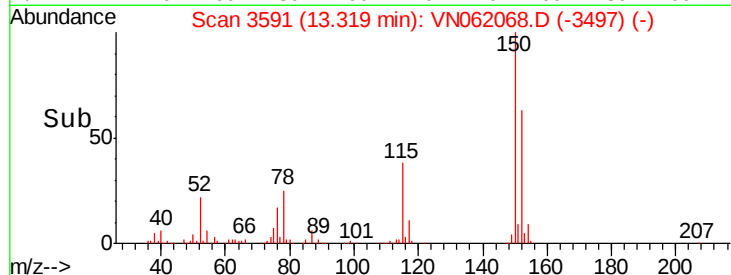
150 155.8 0.0 351.4



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: 25.072 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062068.D

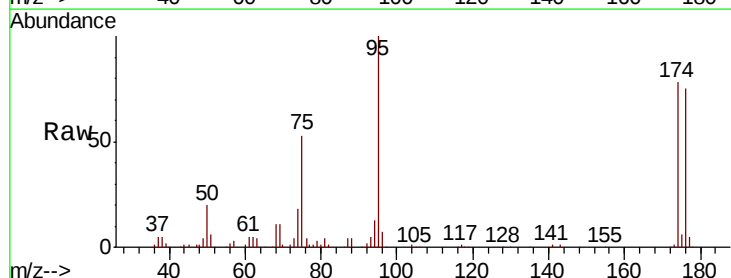
Acq: 24 Jun 2020 17:24

Tgt Ion: 75 Resp: 82885

Ion Ratio Lower Upper

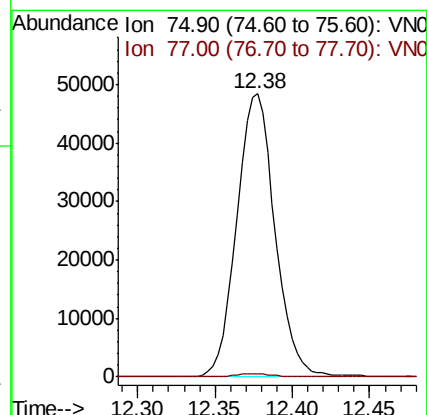
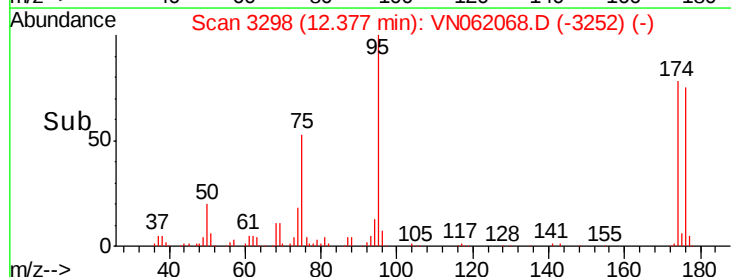
75 100

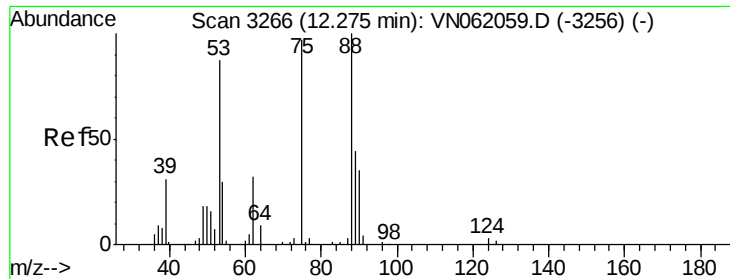
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

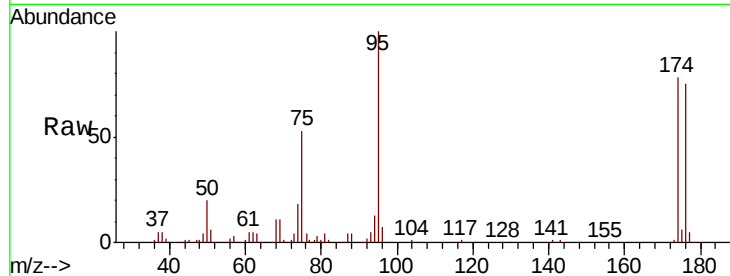




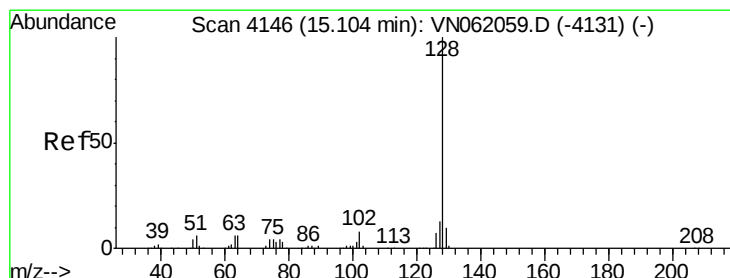
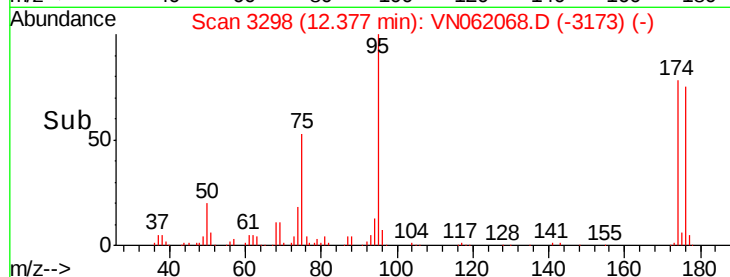
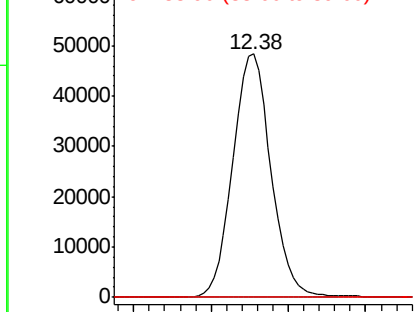
#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.220 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. 0.10 min  
Lab File: VN062068.D  
Acq: 24 Jun 2020 17:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-6

Tot Ion: 75 Resp: 82885  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.0 108.0#  
89 0.0 36.9 55.3#

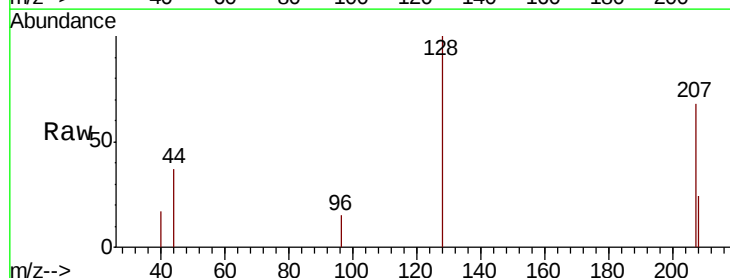


Abundance Ion 74.90 (74.60 to 75.60): VN0  
Ion 53.00 (52.70 to 53.70): VN0  
Ion 88.90 (88.60 to 89.60): VN0



#95  
Naphthalene  
Concen: 4.274 ug/l  
RT: 15.11 min Scan# 4149  
Delta R.T. 0.01 min  
Lab File: VN062068.D  
Acq: 24 Jun 2020 17:24

Tgt Ion: 128 Resp: 2033  
Ion Ratio Lower Upper  
128 100  
127 7.5 10.5 15.7#  
129 0.0 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

