

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX090419\  
 Data File : VX012081.D  
 Acq On : 05 Sep 2019 05:41  
 Operator : SY/SP  
 Sample : K4583-01  
 Misc : 2.77g/5.0mL/MSVOA\_X/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GS-STOCKPILE

Quant Time: Sep 05 06:39:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 157460   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 275937   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 240972   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 103662   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 107168   | 49.33 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.66%  |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 83448    | 49.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.36%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 325140   | 52.21 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.42% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 129472   | 44.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.42%  |      |

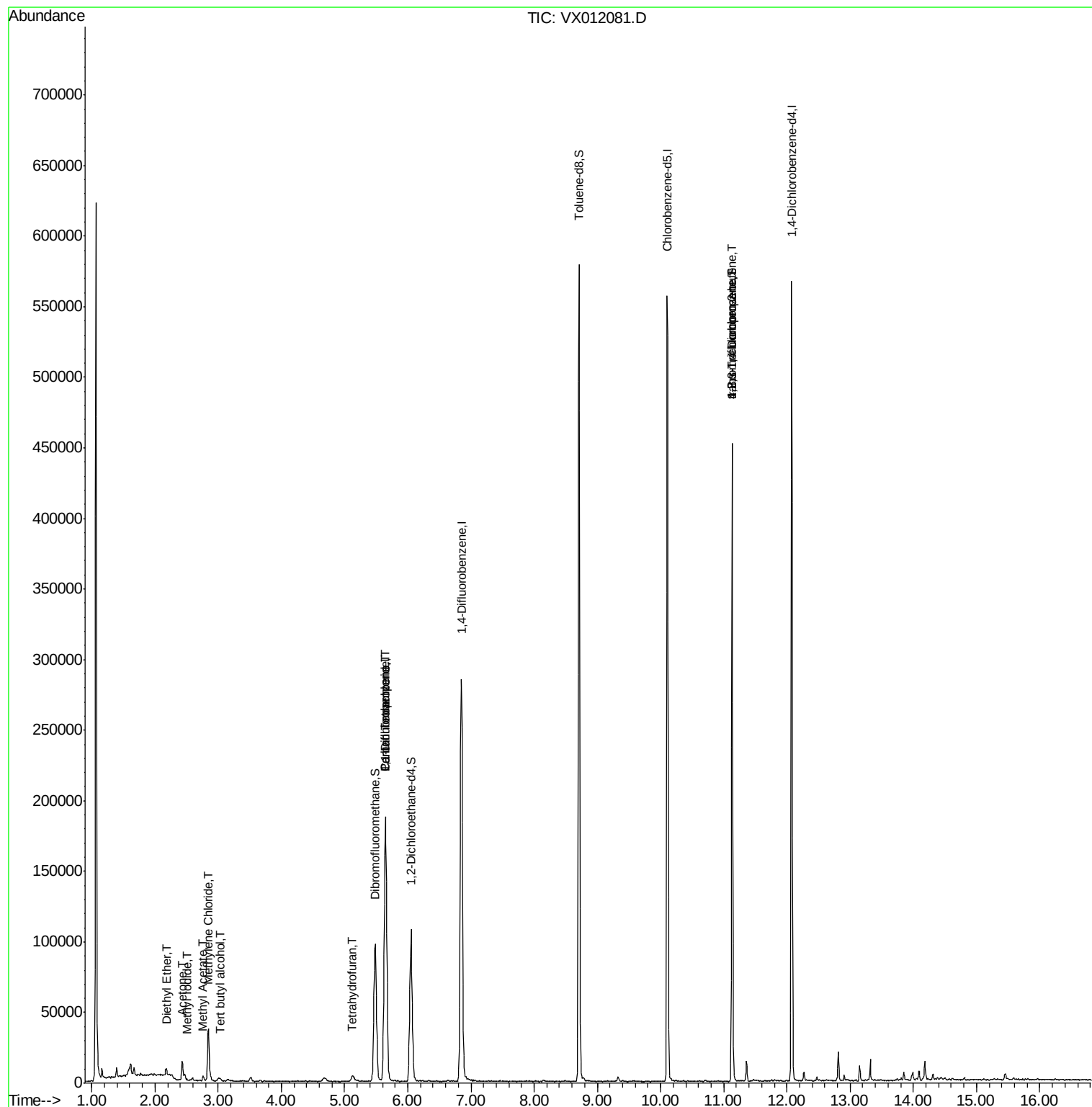
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 2.17  | 74   | 1407     | 1.874     | ug/l   | 94     |
| 10) Methyl Iodide              | 2.51  | 142  | 29       | 7.004     | ug/l # | 1      |
| 11) Tert butyl alcohol         | 3.03  | 59   | 2820     | 13.513    | ug/l # | 84     |
| 13) Acrolein                   | 2.28  | 56   | 67       | Below Cal | #      | 1      |
| 16) Acetone                    | 2.43  | 43   | 14831    | 28.559    | ug/l   | 97     |
| 18) Methyl Acetate             | 2.76  | 43   | 3614     | 2.954     | ug/l   | 94     |
| 20) Methylene Chloride         | 2.84  | 84   | 17426    | 8.356     | ug/l   | 96     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 3950     | 9.918     | ug/l   | 95     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 14589    | 6.003     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 18251    | 7.127     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 67844    | 53.564    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 67844    | 126.634   | ug/l # | 10     |

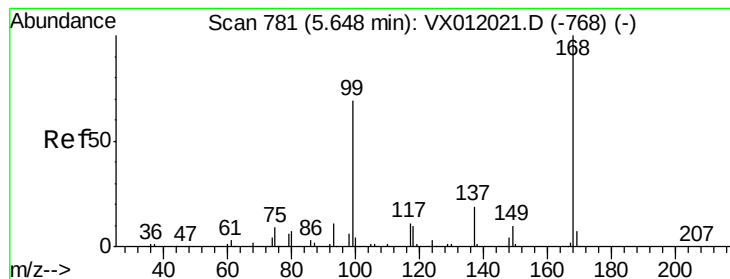
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX090419\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
GS-STOCKPILE

Quant Time: Sep 05 06:39:09 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

Instrument :

MSVOA\_X

ClientSampleId :

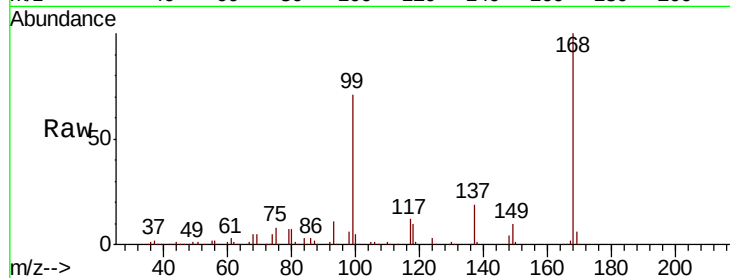
GS-STOCKPILE

Tgt Ion:168 Resp: 157460

Ion Ratio Lower Upper

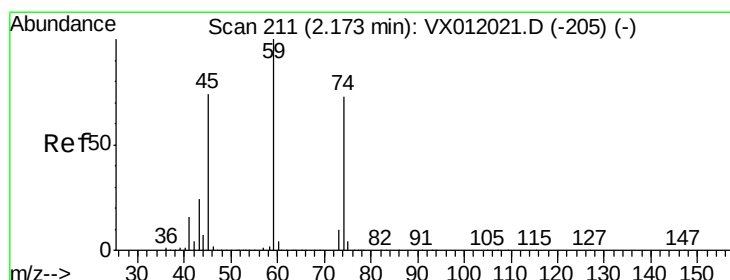
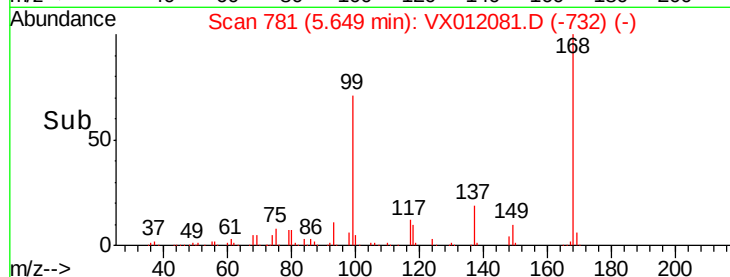
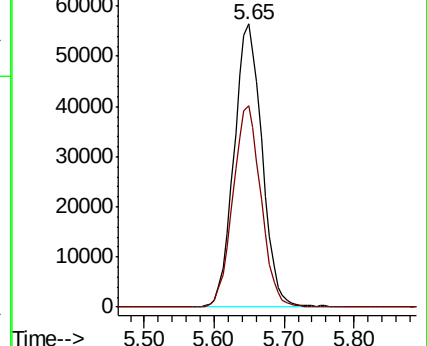
168 100

99 71.2 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 1.874 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012081.D

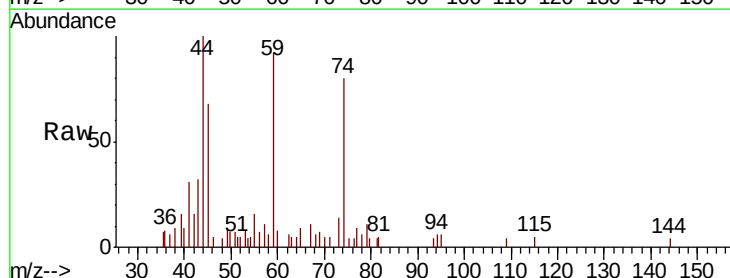
Acq: 05 Sep 2019 05:41

Tgt Ion: 74 Resp: 1407

Ion Ratio Lower Upper

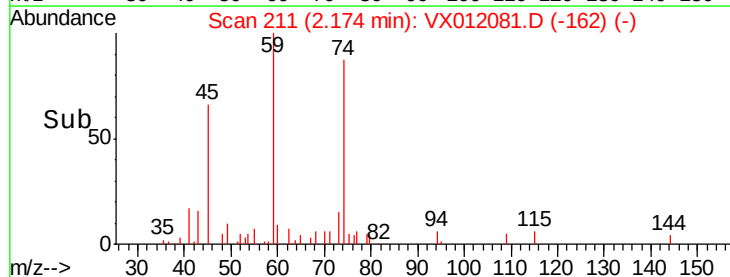
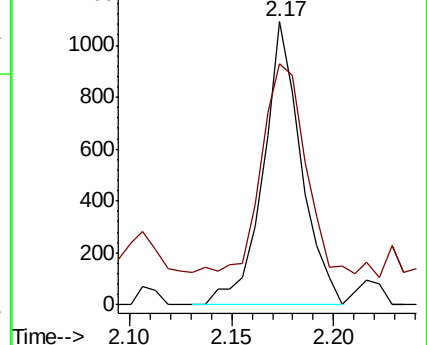
74 100

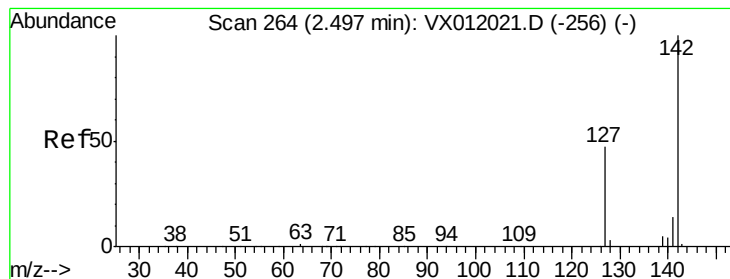
45 85.9 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 7.004 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

Instrument :

MSVOA\_X

ClientSampleId :

GS-STOCKPILE

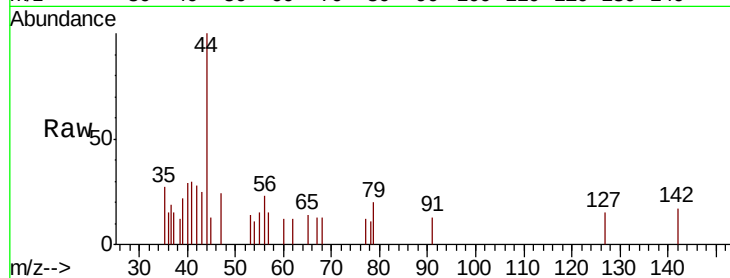
Tgt Ion:142 Resp: 29

Ion Ratio Lower Upper

142 100

127 206.9 35.4 53.2#

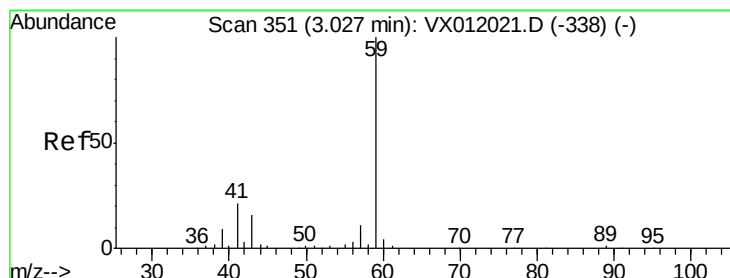
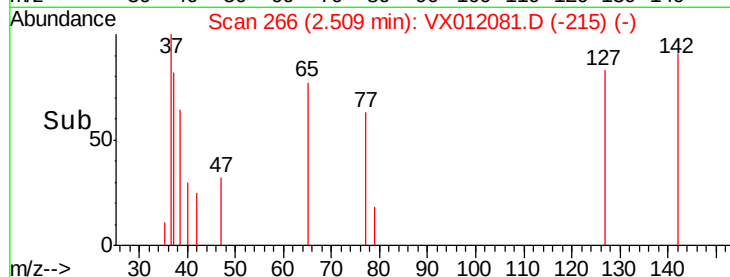
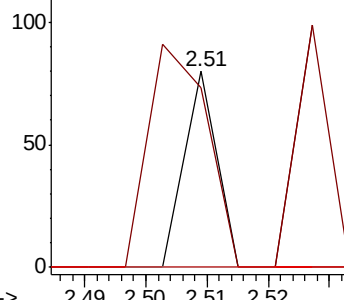
141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 13.513 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX012081.D

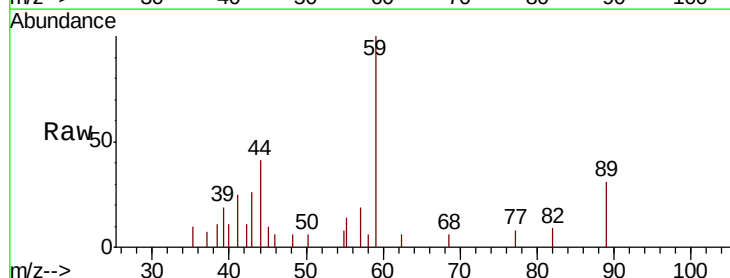
Acq: 05 Sep 2019 05:41

Tgt Ion: 59 Resp: 2820

Ion Ratio Lower Upper

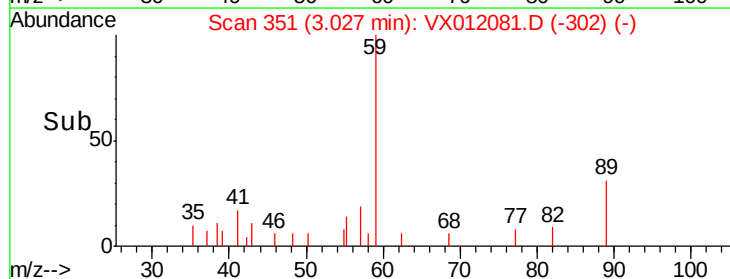
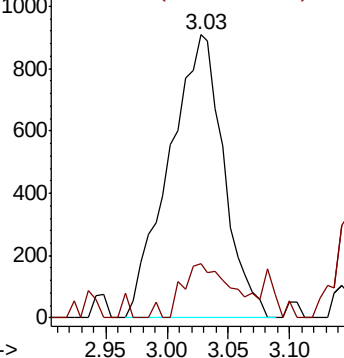
59 100

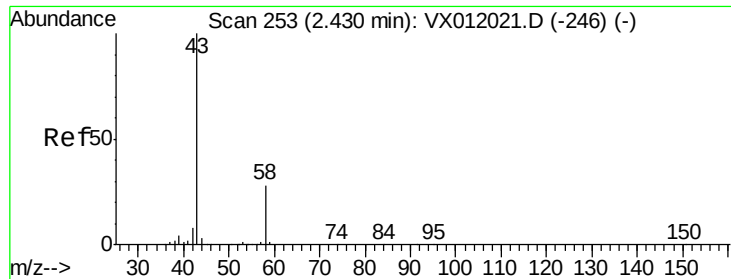
57 15.9 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 28.559 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

Instrument :

MSVOA\_X

ClientSampleId :

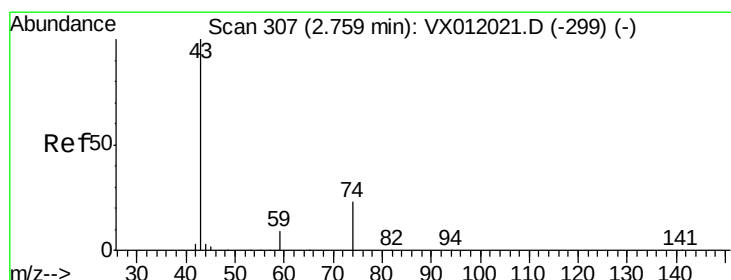
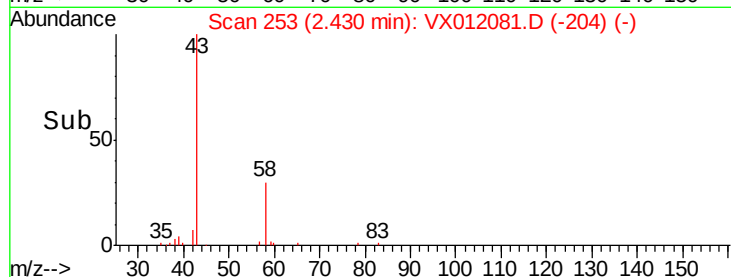
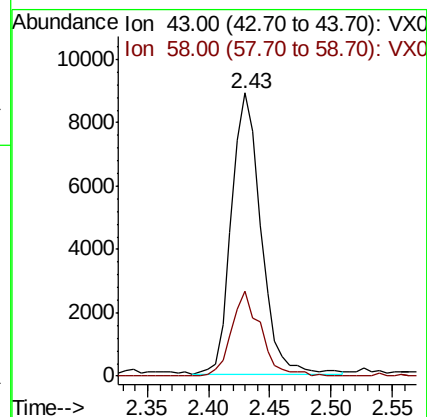
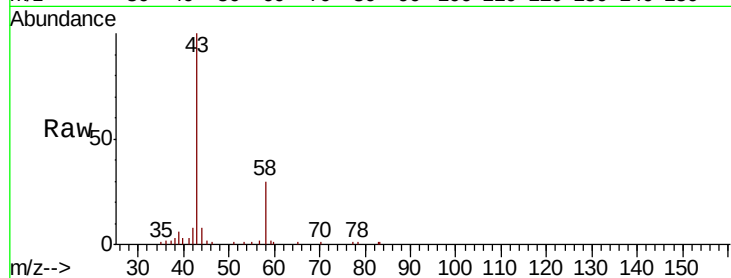
GS-STOCKPILE

Tgt Ion: 43 Resp: 14831

Ion Ratio Lower Upper

43 100

58 30.1 22.8 34.2



#18

Methyl Acetate

Concen: 2.954 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.00 min

Lab File: VX012081.D

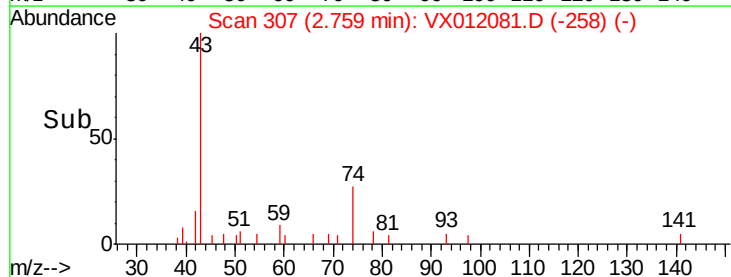
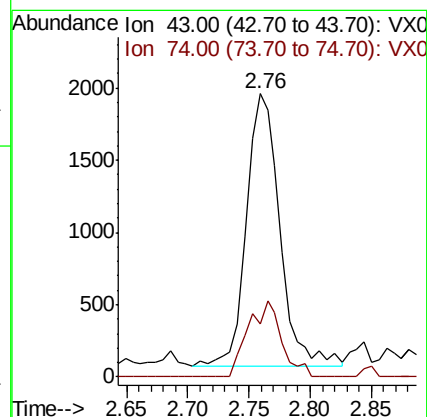
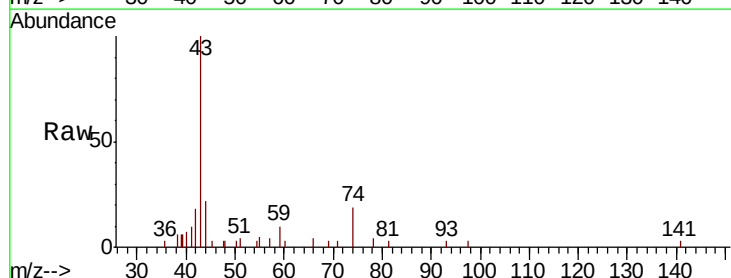
Acq: 05 Sep 2019 05:41

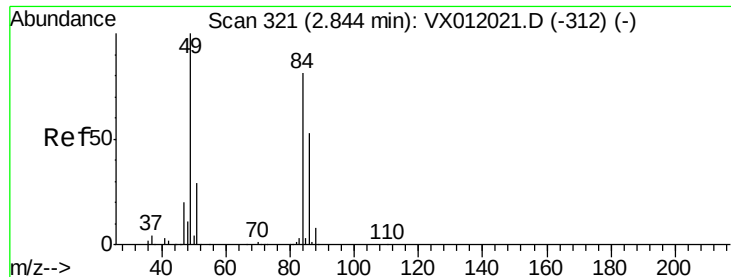
Tgt Ion: 43 Resp: 3614

Ion Ratio Lower Upper

43 100

74 27.6 19.5 29.3

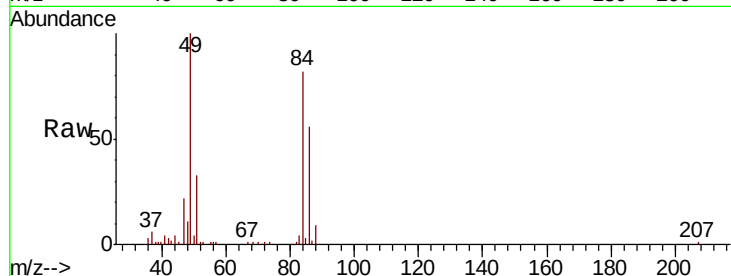




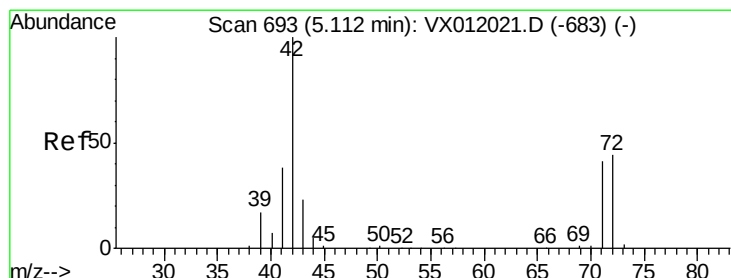
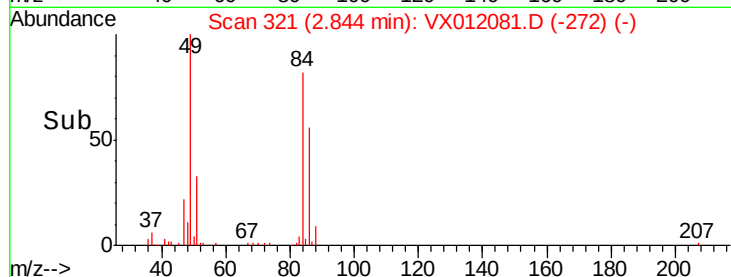
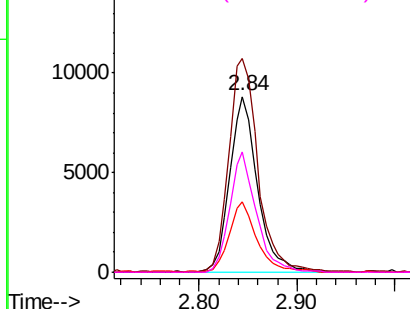
#20  
Methylene Chloride  
Concen: 8.356 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.00 min  
Lab File: VX012081.D  
Acq: 05 Sep 2019 05:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
GS-STOCKPILE

Tgt Ion: 84 Resp: 17426  
Ion Ratio Lower Upper  
84 100  
49 121.6 95.8 143.8  
51 40.0 28.6 43.0  
86 68.5 50.9 76.3

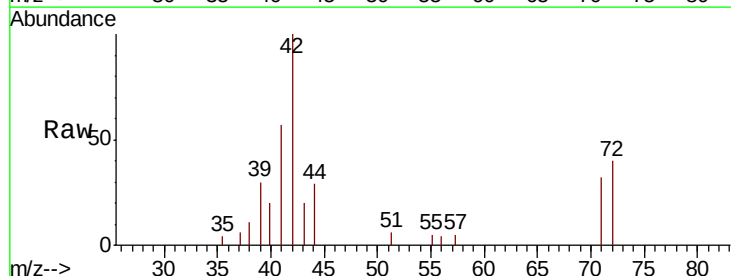


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

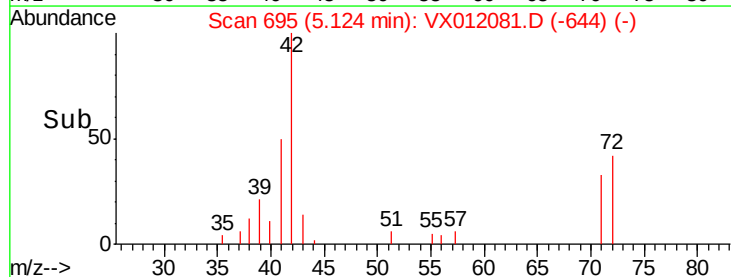
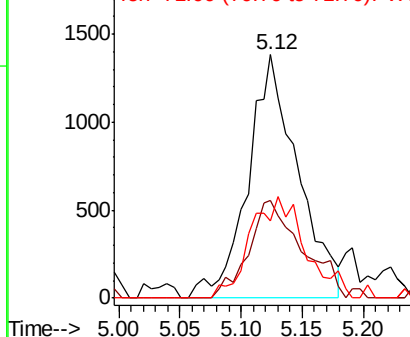


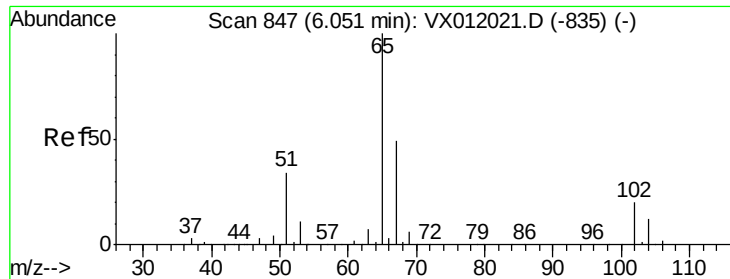
#29  
Tetrahydrofuran  
Concen: 9.918 ug/l  
RT: 5.12 min Scan# 695  
Delta R.T. 0.01 min  
Lab File: VX012081.D  
Acq: 05 Sep 2019 05:41

Tgt Ion: 42 Resp: 3950  
Ion Ratio Lower Upper  
42 100  
72 42.8 37.0 55.4  
71 45.3 33.8 50.8



Abundance Ion 42.00 (41.70 to 42.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0  
Ion 71.00 (70.70 to 71.70): VX0

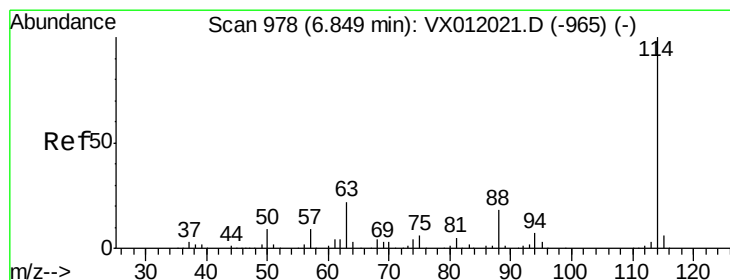
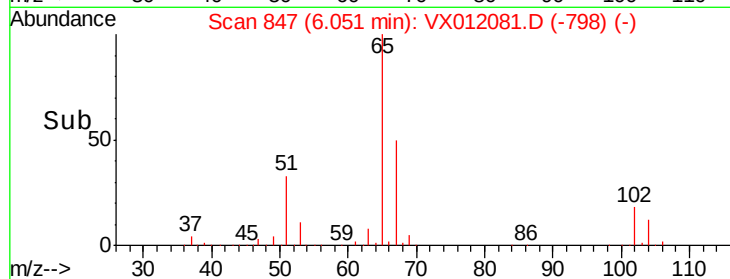
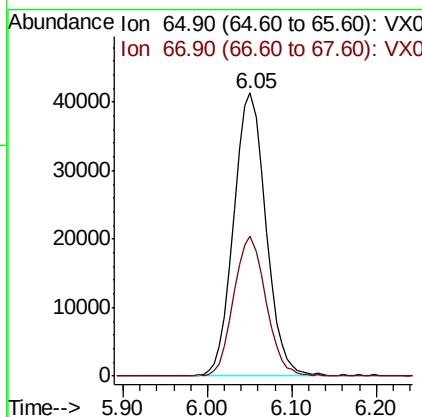
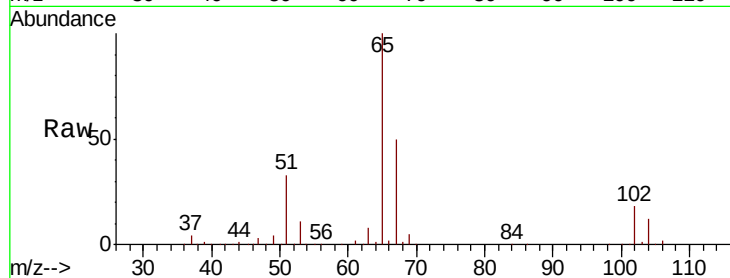




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.326 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. -0.00 min  
 Lab File: VX012081.D  
 Acq: 05 Sep 2019 05:41

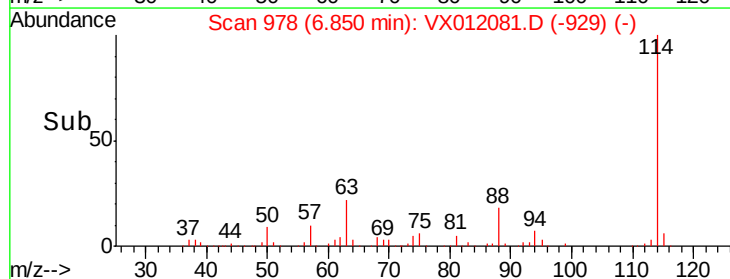
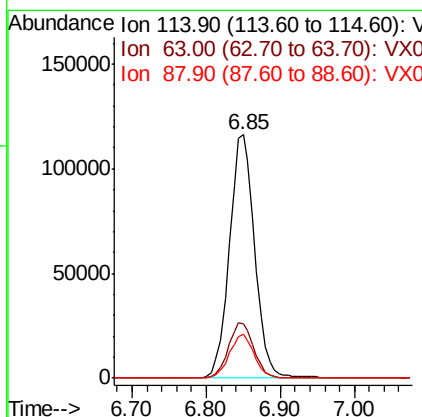
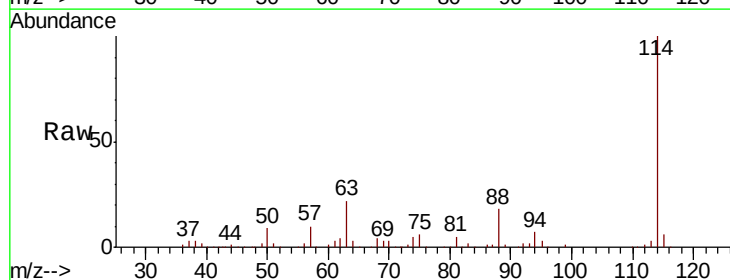
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GS-STOCKPILE

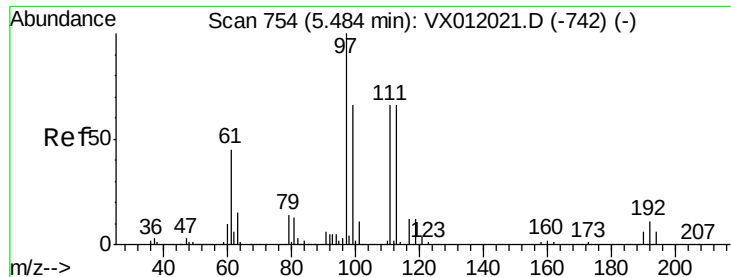
Tgt Ion: 65 Resp: 107168  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 102.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012081.D  
 Acq: 05 Sep 2019 05:41

Tgt Ion: 114 Resp: 275937  
 Ion Ratio Lower Upper  
 114 100  
 63 22.0 0.0 37.4  
 88 17.8 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.176 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

Instrument :

MSVOA\_X

ClientSampleId :

GS-STOCKPILE

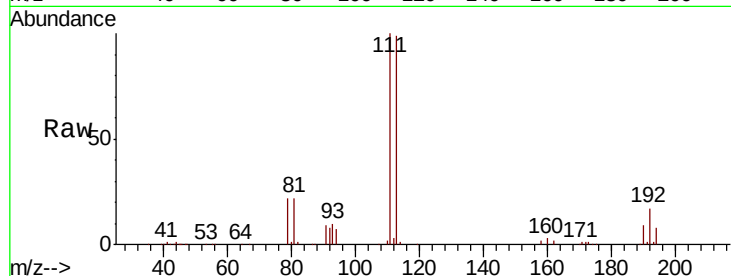
Tgt Ion:113 Resp: 83448

Ion Ratio Lower Upper

113 100

111 101.2 81.7 122.5

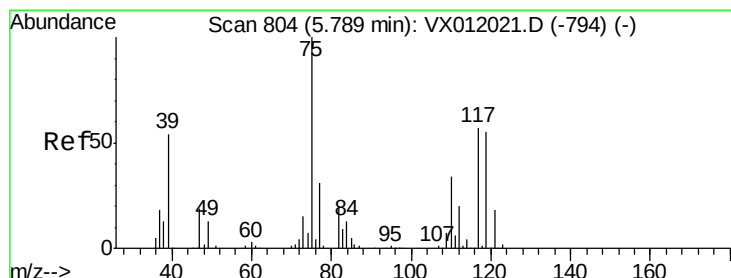
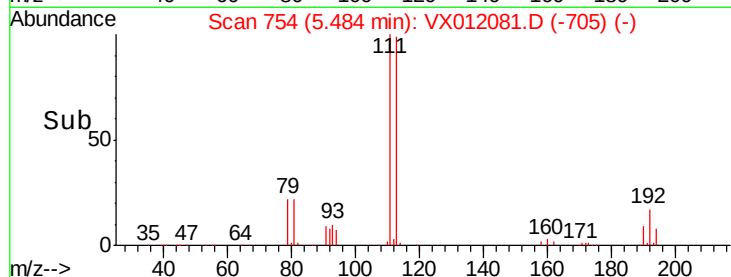
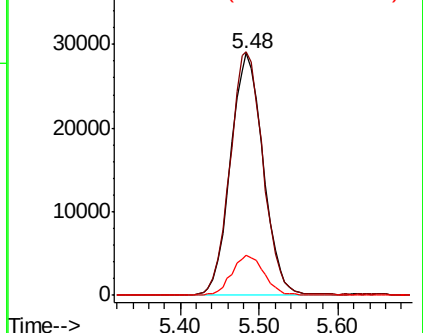
192 16.5 22.5 33.7#



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: 6.003 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

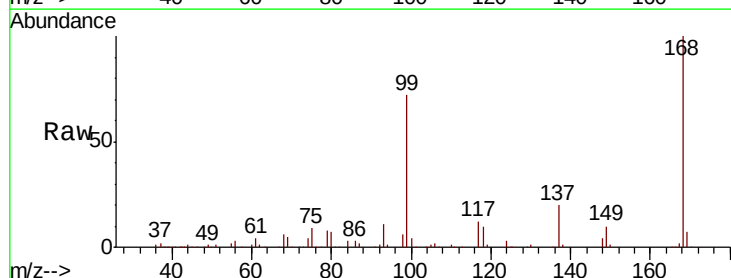
Tgt Ion: 75 Resp: 14589

Ion Ratio Lower Upper

75 100

110 10.2 19.5 58.5#

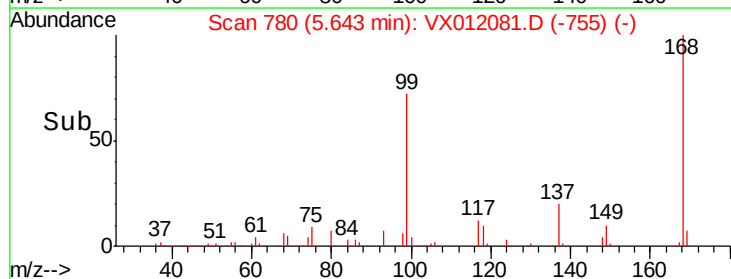
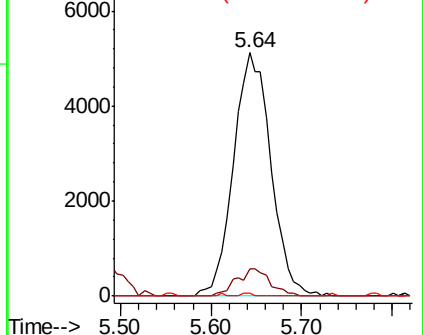
77 0.3 24.6 37.0#



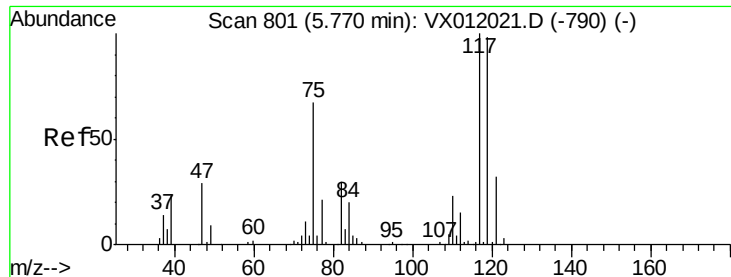
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



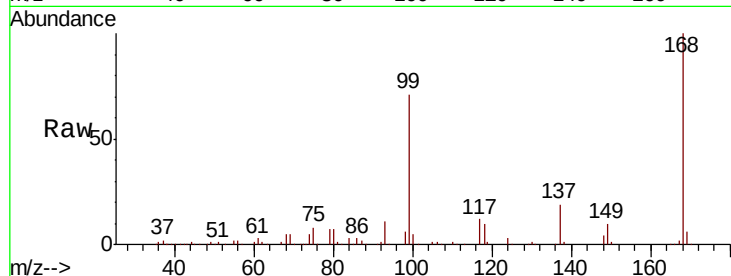




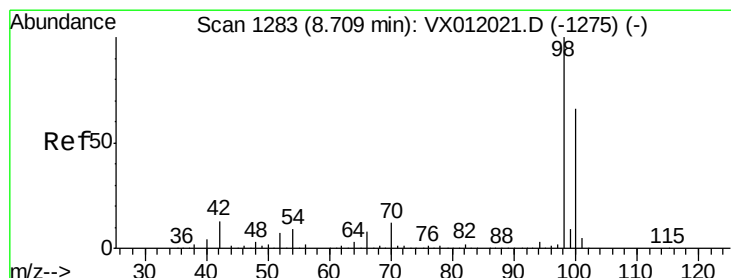
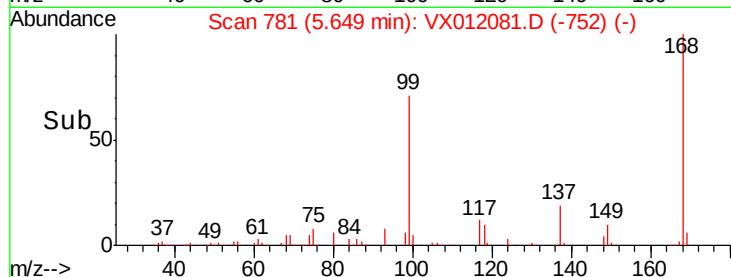
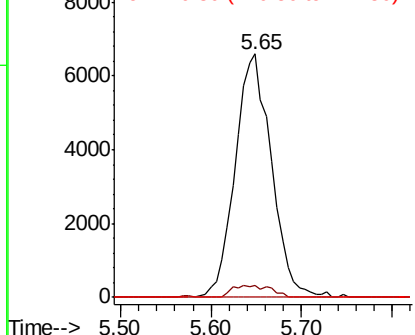
#38  
Carbon Tetrachloride  
Concen: 7.127 ug/l  
RT: 5.65 min Scan# 781  
Delta R.T. -0.12 min  
Lab File: VX012081.D  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
GS-STOCKPILE

Tgt Ion:117 Resp: 18251  
Ion Ratio Lower Upper  
117 100  
119 4.8 78.3 117.5#  
121 0.0 24.2 36.2#

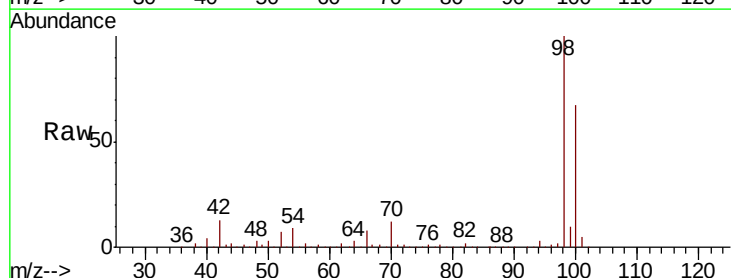


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

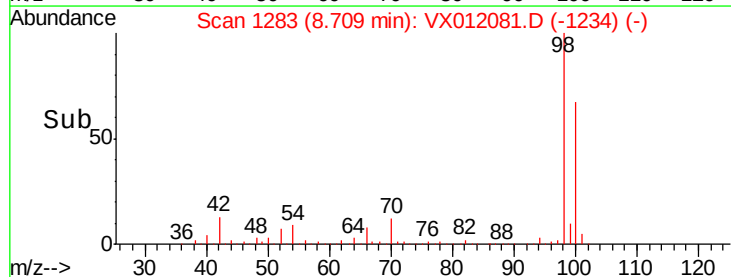
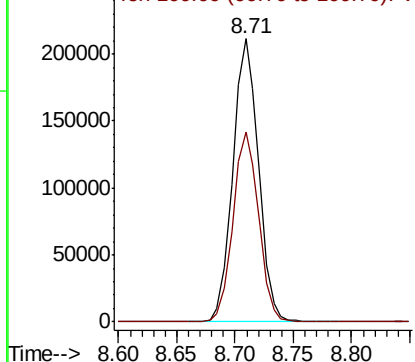


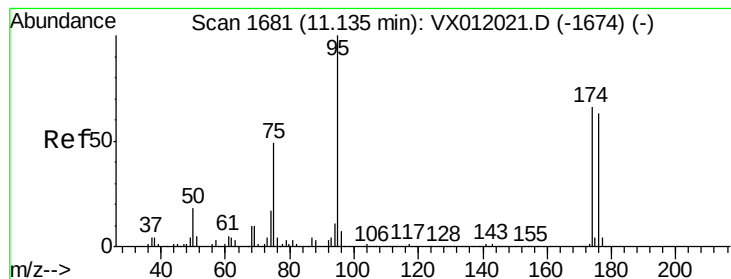
#50  
Toluene-d8  
Concen: 52.215 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012081.D  
Acq: 05 Sep 2019 05:41

Tgt Ion: 98 Resp: 325140  
Ion Ratio Lower Upper  
98 100  
100 67.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.709 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

Instrument :

MSVOA\_X

ClientSampleId :

GS-STOCKPILE

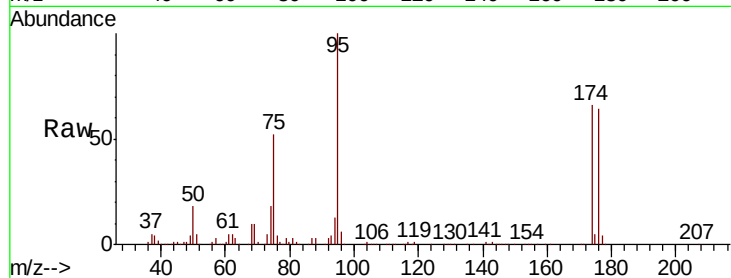
Tgt Ion: 95 Resp: 129472

Ion Ratio Lower Upper

95 100

174 62.8 0.0 205.4

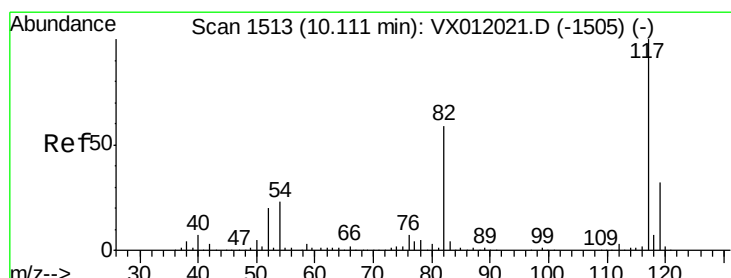
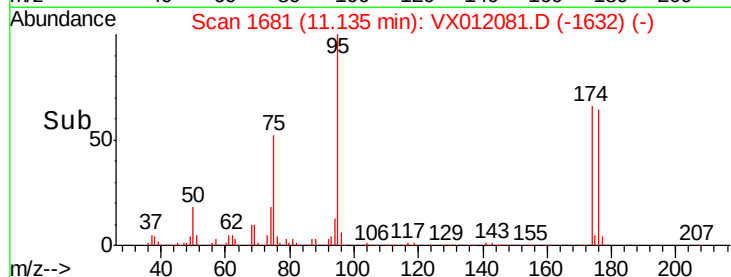
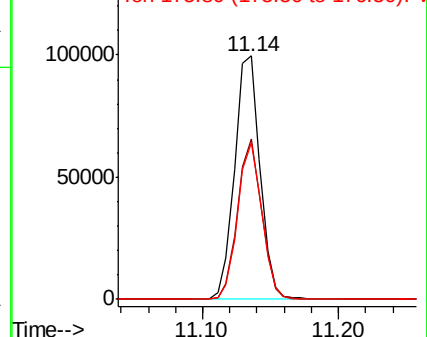
176 61.5 0.0 201.8



Abundance Ion 94.90 (94.60 to 95.60): VX012021.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012021.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012021.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

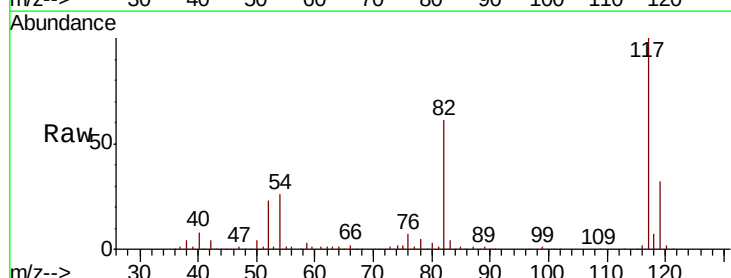
Tgt Ion: 117 Resp: 240972

Ion Ratio Lower Upper

117 100

82 61.1 39.4 59.0#

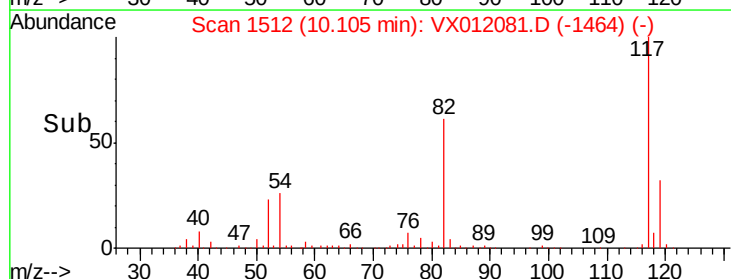
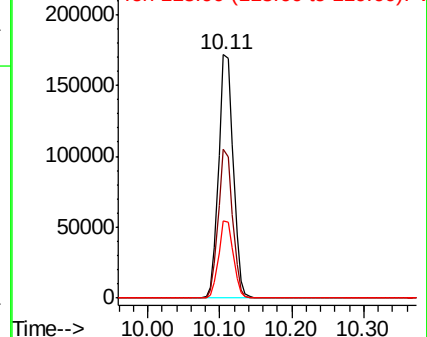
119 31.9 26.1 39.1

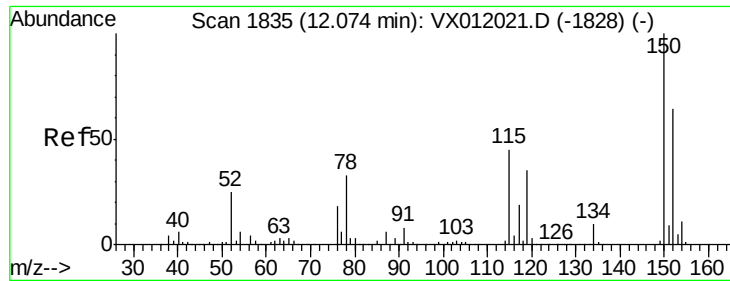


Abundance Ion 116.90 (116.60 to 117.60): VX012021.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012021.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012021.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012081.D

Acq: 05 Sep 2019 05:41

Instrument :

MSVOA\_X

ClientSampleId :

GS-STOCKPILE

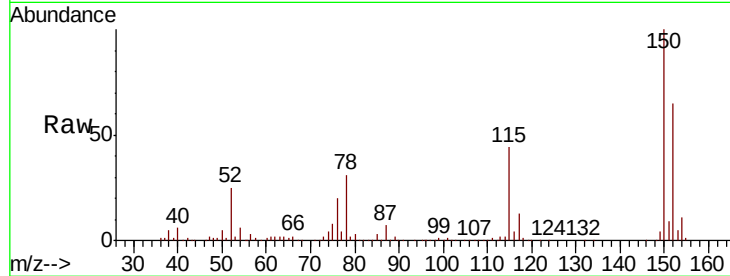
Tgt Ion:152 Resp: 103662

Ion Ratio Lower Upper

152 100

115 66.5 36.4 109.3

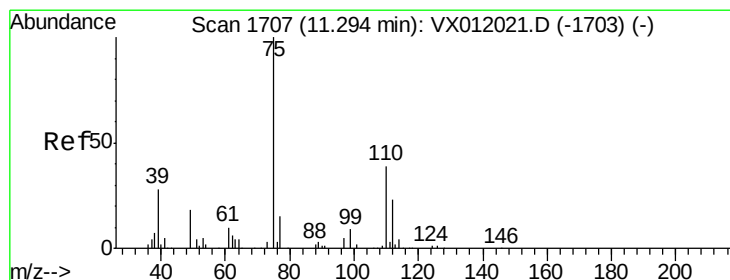
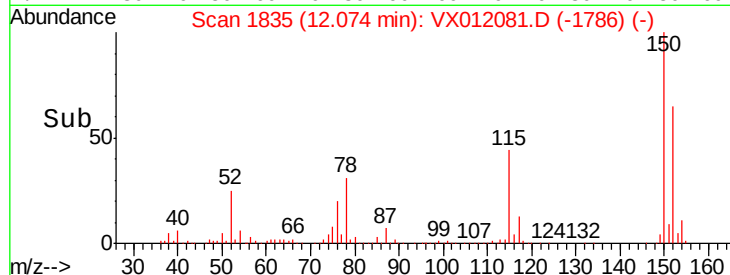
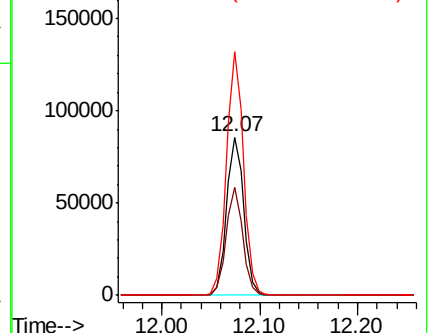
150 152.9 0.0 341.2



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: 53.564 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012081.D

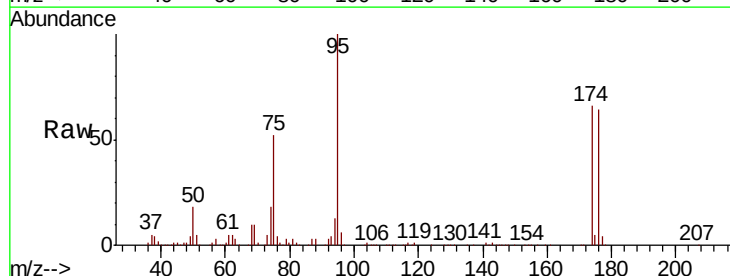
Acq: 05 Sep 2019 05:41

Tgt Ion: 75 Resp: 67844

Ion Ratio Lower Upper

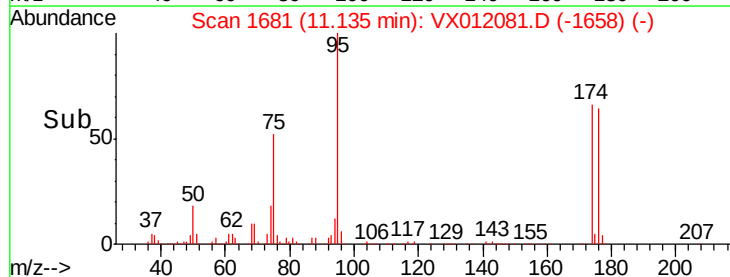
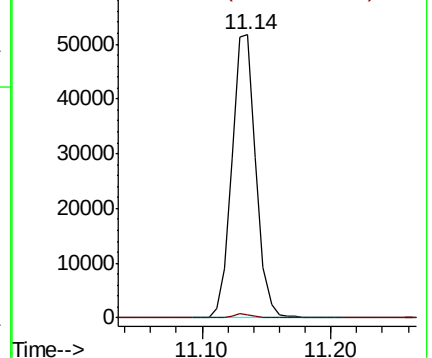
75 100

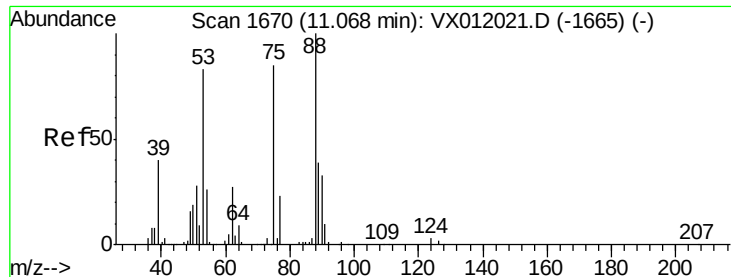
77 1.3 23.5 70.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 126.634 ug/l  
 RT: 11.14 min Scan# 1681  
 Delta R.T. 0.07 min  
 Lab File: VX012081.D  
 Acq: 05 Sep 2019 05:41

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GS-STOCKPILE

Tgt Ion: 75 Resp: 67844  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.6 117.8#  
 89 0.0 38.8 58.2#

