

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX090519\  
 Data File : VX012125.D  
 Acq On : 06 Sep 2019 03:48  
 Operator : SY/SP  
 Sample : K4618-08  
 Misc : 4.13g/5.0mL/MSVOA\_X/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SB-4-20-22

Quant Time: Sep 06 05:49:11 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  | 139515   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 240330   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 187391   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 61476    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 97880    | 50.85 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.70% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 72956    | 49.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.72%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 274240   | 50.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.14% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 88266    | 35.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 70.00%  |          |

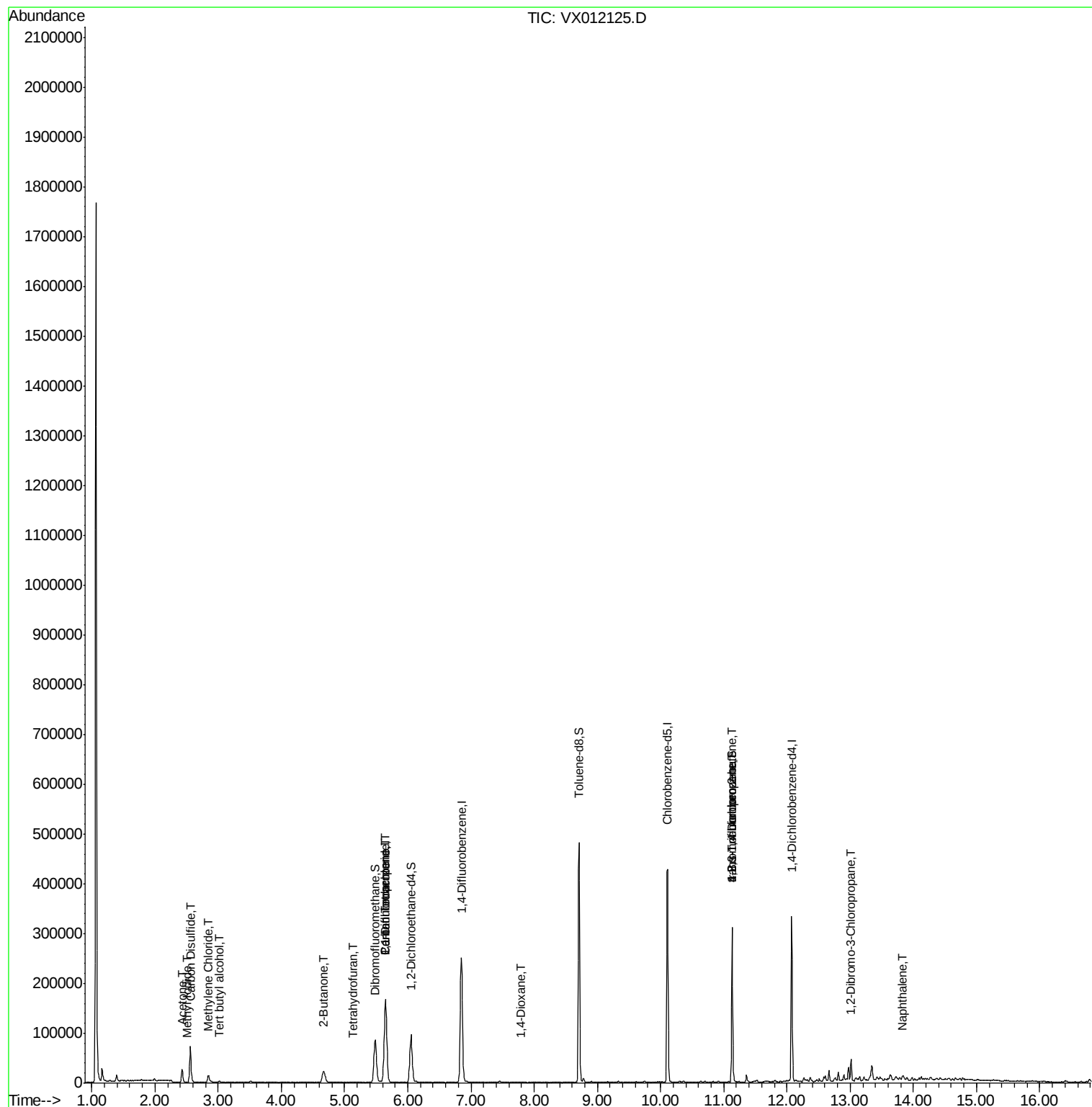
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 10) Methyl Iodide              | 2.50  | 142  | 19       | 7.000     | ug/l # | 40     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2314     | 12.515    | ug/l # | 79     |
| 13) Acrolein                   | 2.25  | 56   | 43       | Below Cal | #      | 1      |
| 16) Acetone                    | 2.43  | 43   | 28467    | 61.868    | ug/l   | 99     |
| 17) Carbon Disulfide           | 2.56  | 76   | 88913    | 22.146    | ug/l   | 99     |
| 20) Methylene Chloride         | 2.84  | 84   | 6501     | 3.518     | ug/l   | 93     |
| 25) 2-Butanone                 | 4.67  | 43   | 7608     | 12.990    | ug/l   | 96     |
| 29) Tetrahydrofuran            | 5.14  | 42   | 1273     | 3.607     | ug/l # | 76     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 13636    | 6.442     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 16486    | 7.391     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.79  | 88   | 29       | 1.808     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 45775    | 60.940    | ug/l # | 32     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 45775    | 144.073   | ug/l # | 10     |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 292      | 1.484     | ug/l # | 1      |
| 95) Naphthalene                | 13.83 | 128  | 5072     | 1.809     | ug/l # | 92     |

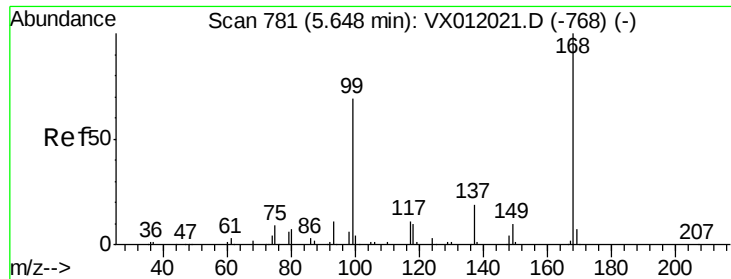
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampleId :

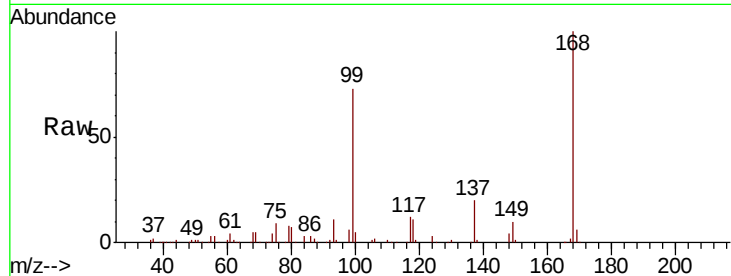
SB-4-20-22

Tgt Ion:168 Resp: 139515

Ion Ratio Lower Upper

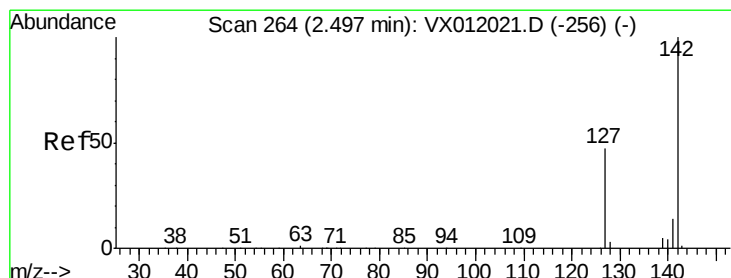
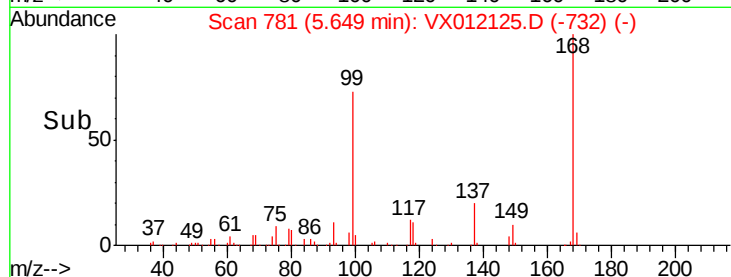
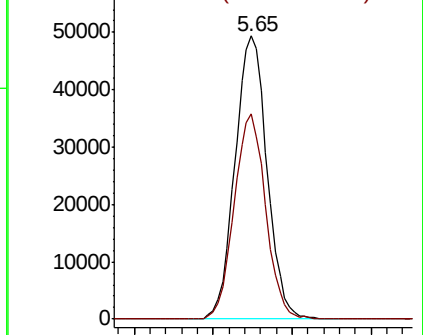
168 100

99 72.7 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#10

Methyl Iodide

Concen: 7.000 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

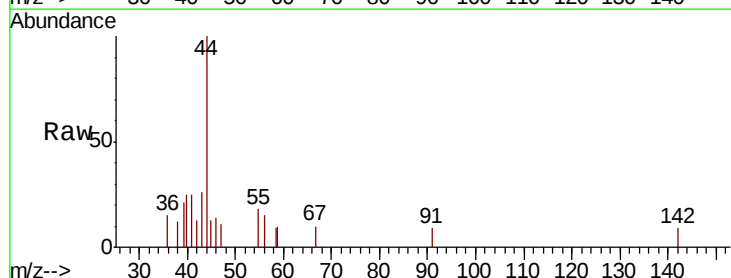
Tgt Ion:142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 35.4 53.2#

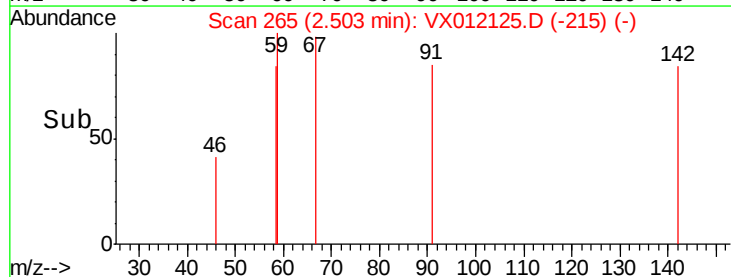
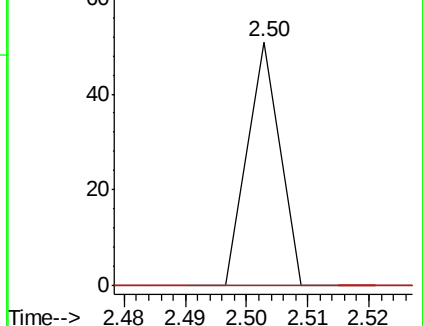
141 0.0 11.4 17.2#

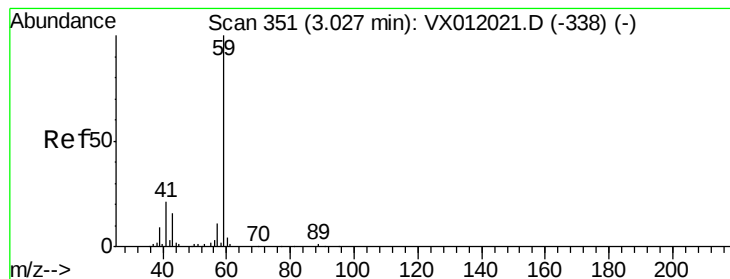


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 12.515 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampled :

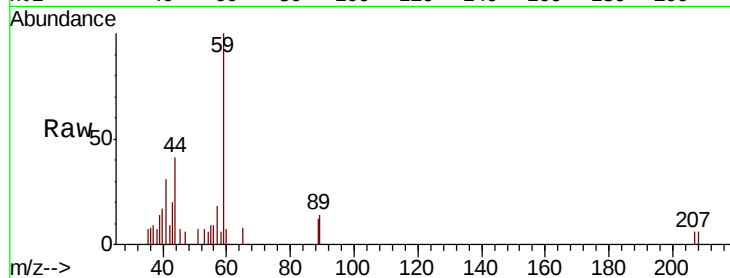
SB-4-20-22

Tgt Ion: 59 Resp: 2314

Ion Ratio Lower Upper

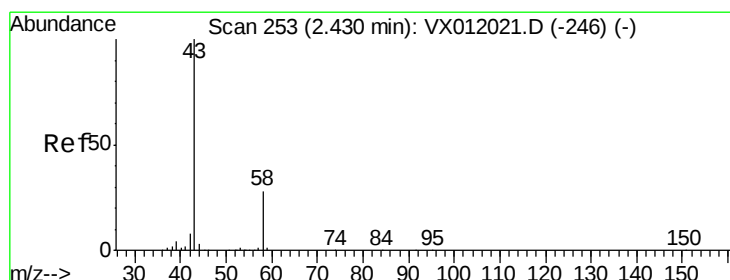
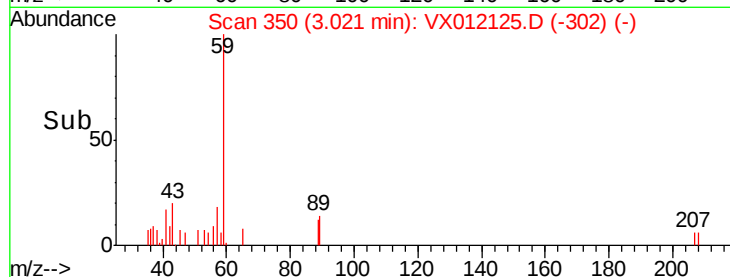
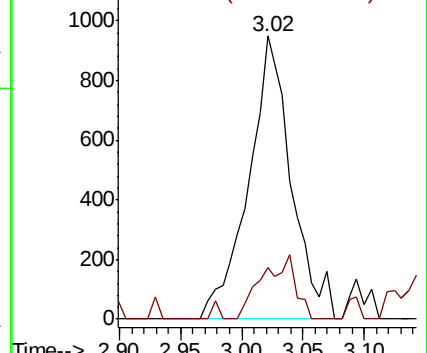
59 100

57 17.7 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: 61.868 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012125.D

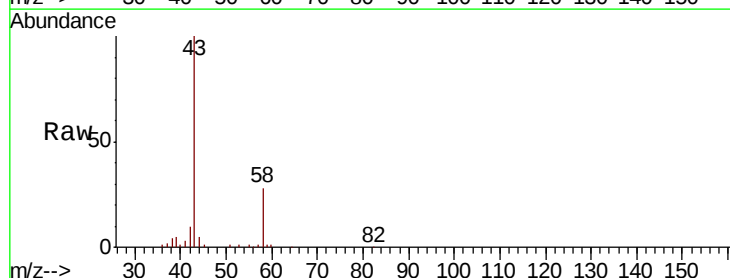
Acq: 06 Sep 2019 03:48

Tgt Ion: 43 Resp: 28467

Ion Ratio Lower Upper

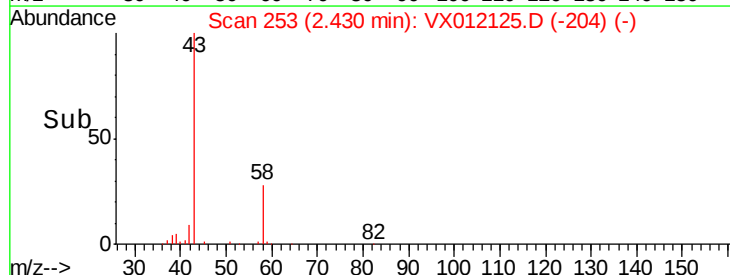
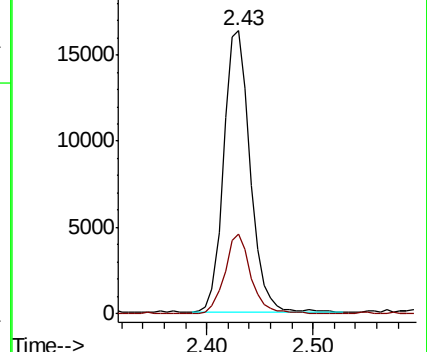
43 100

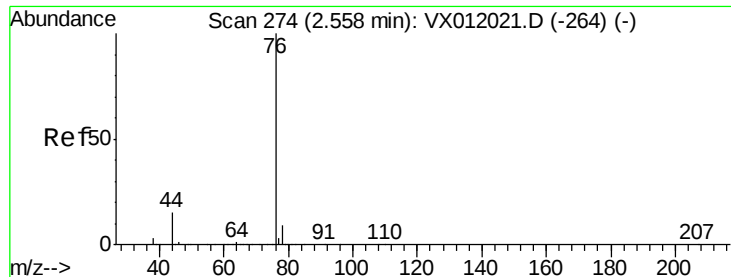
58 28.2 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 22.146 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampleId :

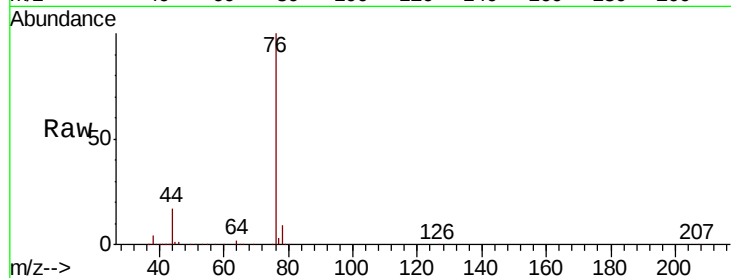
SB-4-20-22

Tgt Ion: 76 Resp: 88913

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

60000

50000

40000

30000

20000

10000

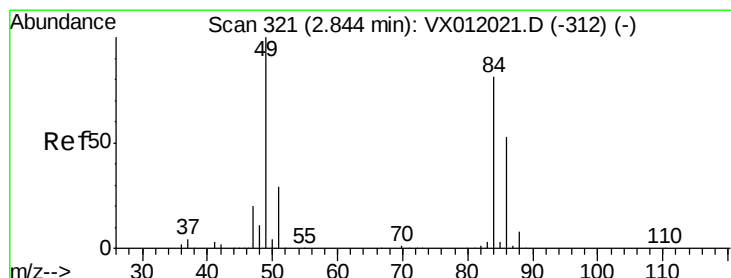
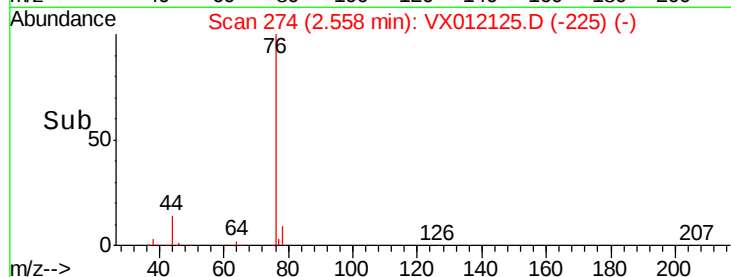
0

Time-->

2.50

2.60

2.70



#20

Methylene Chloride

Concen: 3.518 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Tgt Ion: 84 Resp: 6501

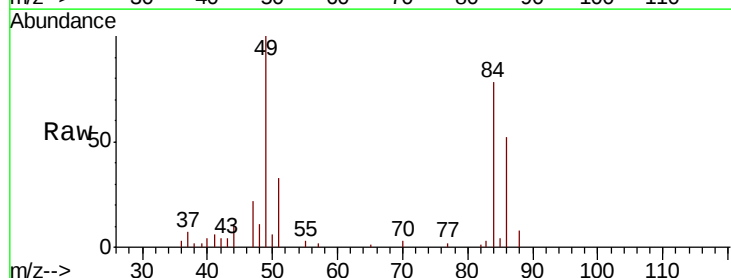
Ion Ratio Lower Upper

84 100

49 127.8 95.8 143.8

51 42.6 28.6 43.0

86 66.5 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

6000

5000

4000

3000

2000

1000

0

Time-->

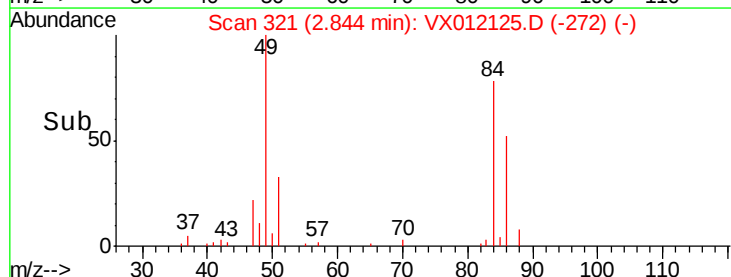
2.75

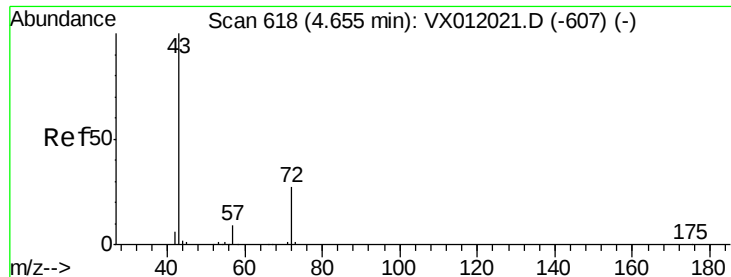
2.80

2.85

2.90

2.95





#25

2-Butanone

Concen: 12.990 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampled :

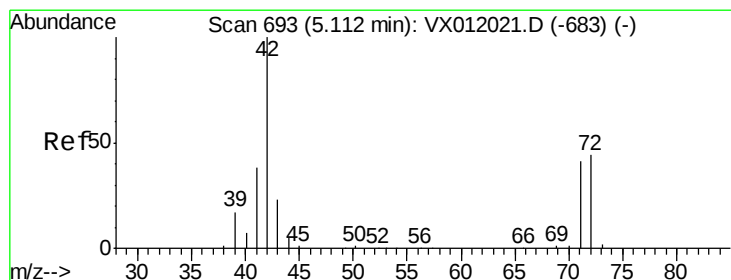
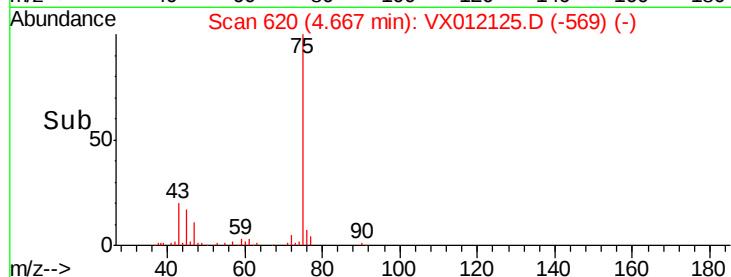
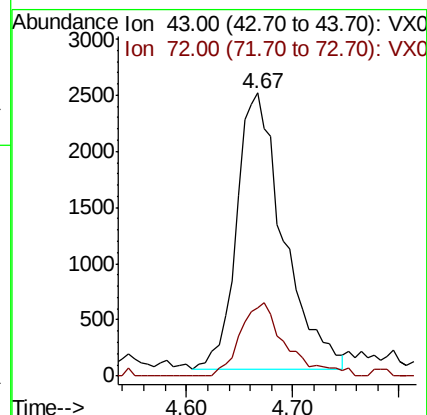
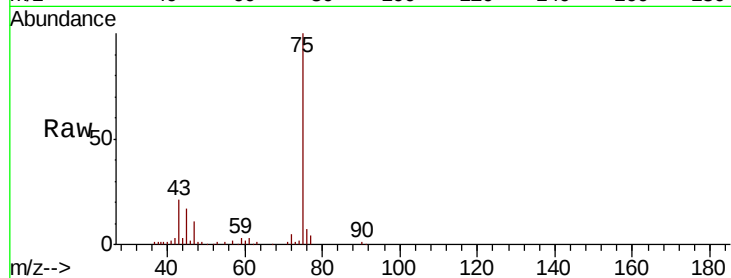
SB-4-20-22

Tgt Ion: 43 Resp: 7608

Ion Ratio Lower Upper

43 100

72 24.6 21.3 31.9



#29

Tetrahydrofuran

Concen: 3.607 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

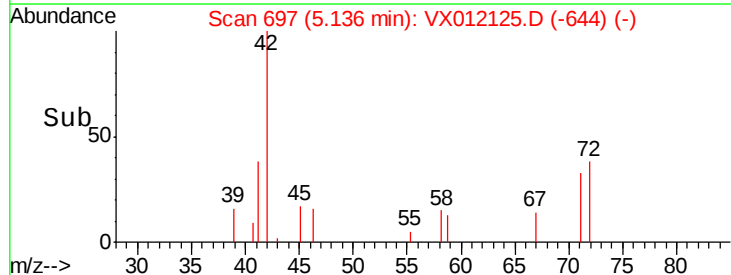
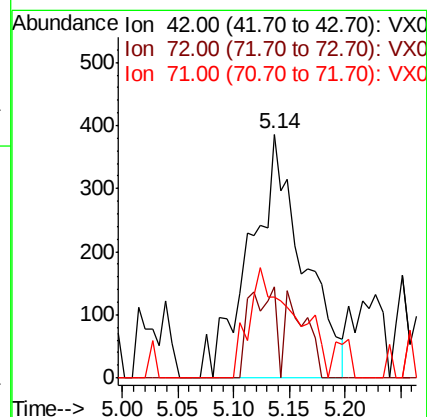
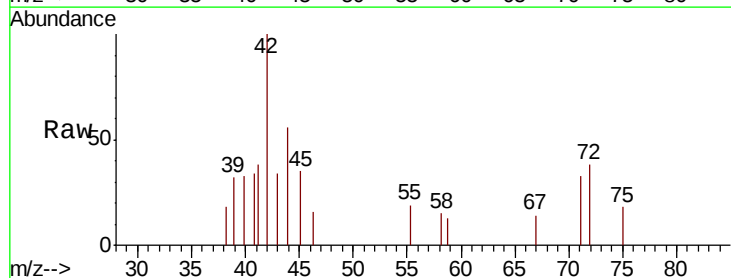
Tgt Ion: 42 Resp: 1273

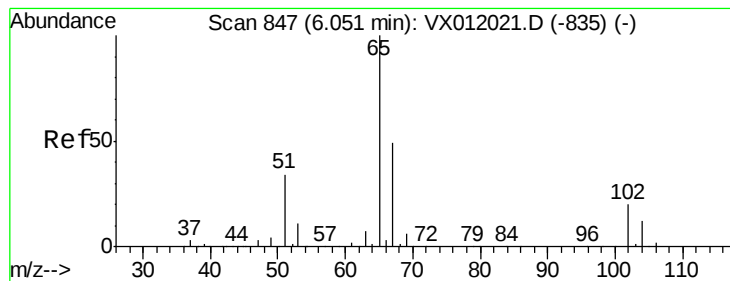
Ion Ratio Lower Upper

42 100

72 18.3 37.0 55.4#

71 39.0 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 50.846 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampleId :

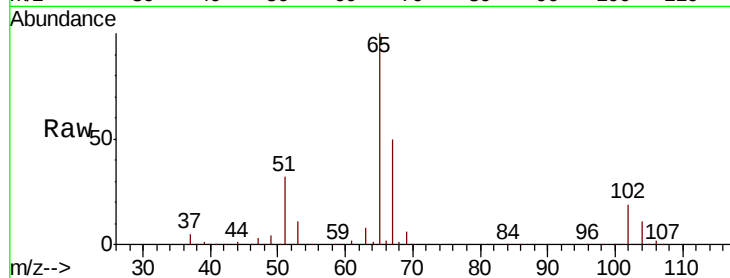
SB-4-20-22

Tgt Ion: 65 Resp: 97880

Ion Ratio Lower Upper

65 100

67 49.5 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

40000

30000

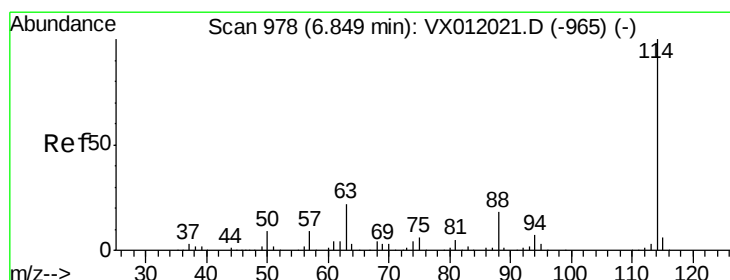
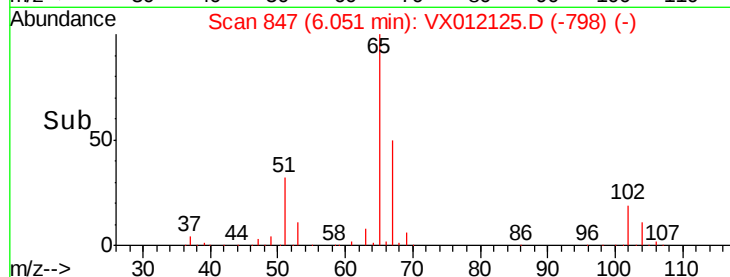
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

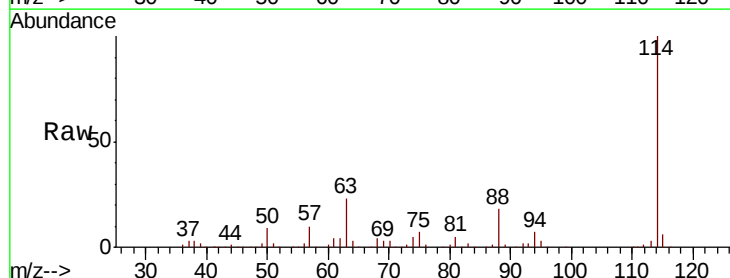
Tgt Ion: 114 Resp: 240330

Ion Ratio Lower Upper

114 100

63 22.7 0.0 37.4

88 17.7 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

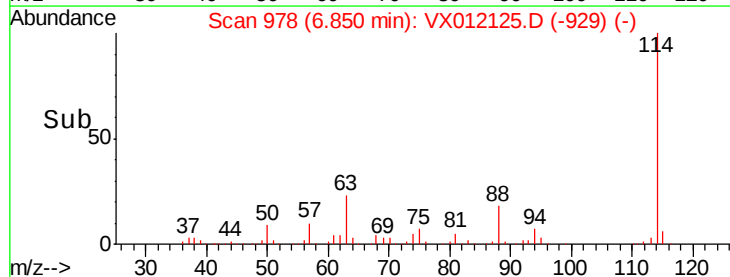
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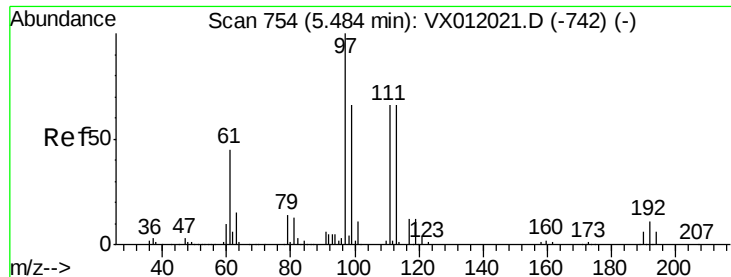
50000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.363 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampleId :

SB-4-20-22

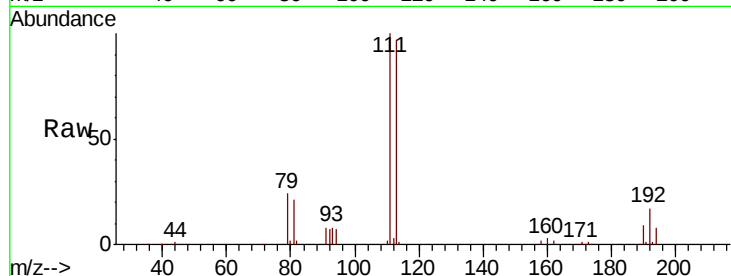
Tgt Ion:113 Resp: 72956

Ion Ratio Lower Upper

113 100

111 102.5 81.7 122.5

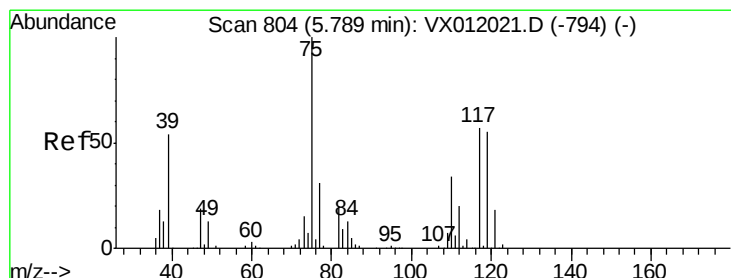
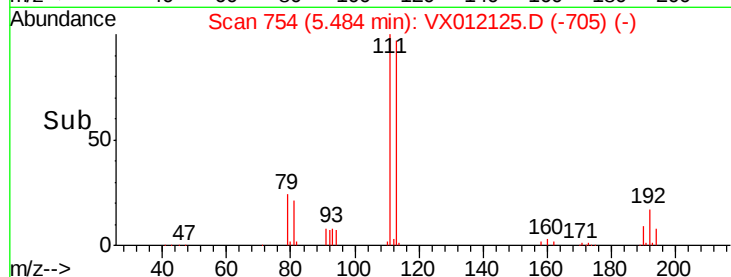
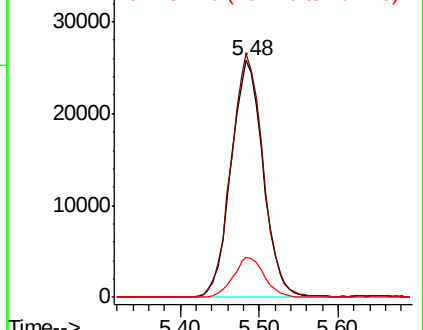
192 16.4 22.5 33.7#



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: 6.442 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

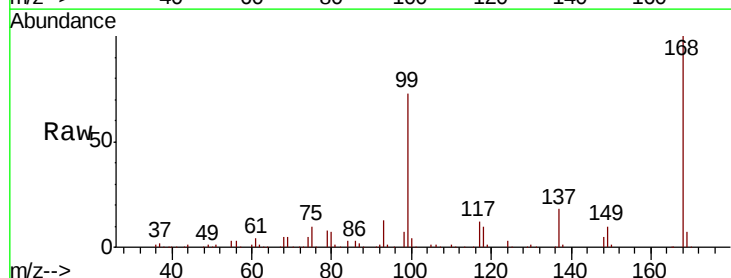
Tgt Ion: 75 Resp: 13636

Ion Ratio Lower Upper

75 100

110 9.2 19.5 58.5#

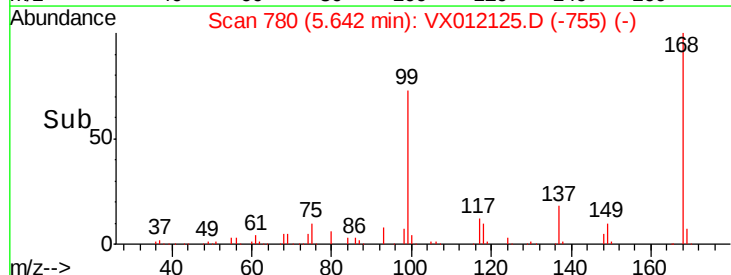
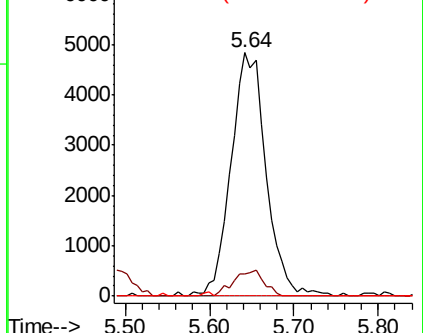
77 0.0 24.6 37.0#

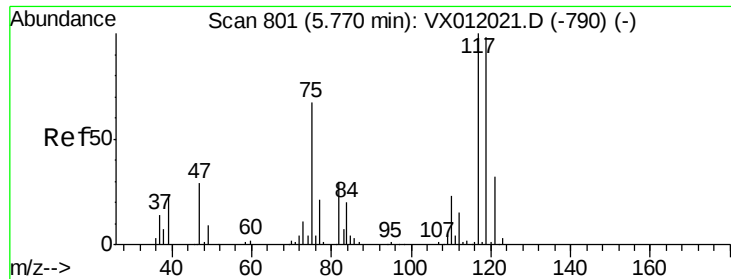


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.391 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampleId :

SB-4-20-22

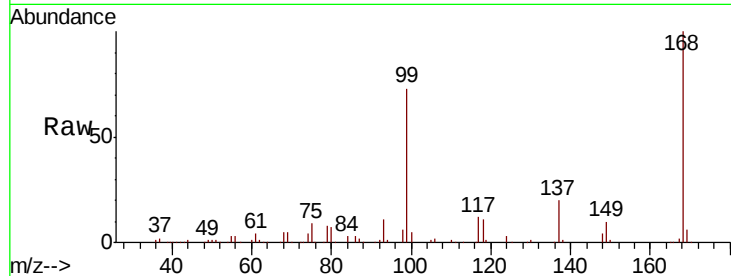
Tgt Ion: 117 Resp: 16486

Ion Ratio Lower Upper

117 100

119 5.1 78.3 117.5#

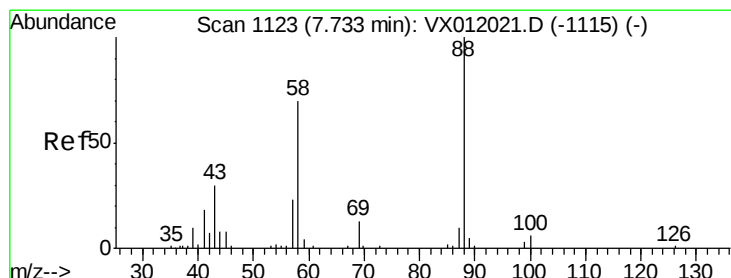
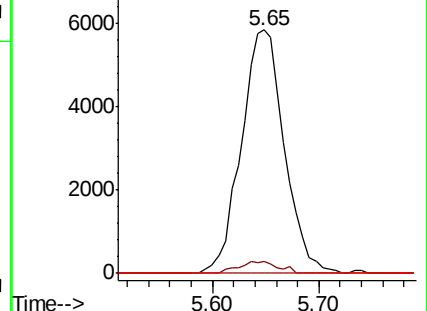
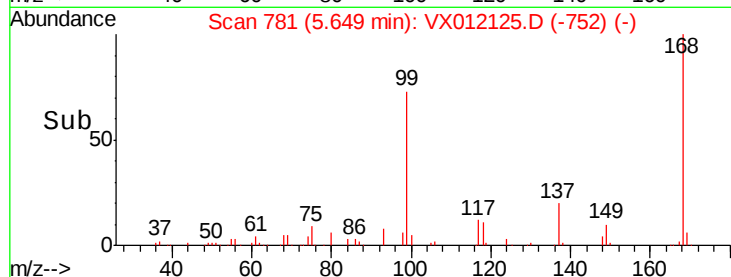
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 1.808 ug/l

RT: 7.79 min Scan# 1133

Delta R.T. 0.07 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

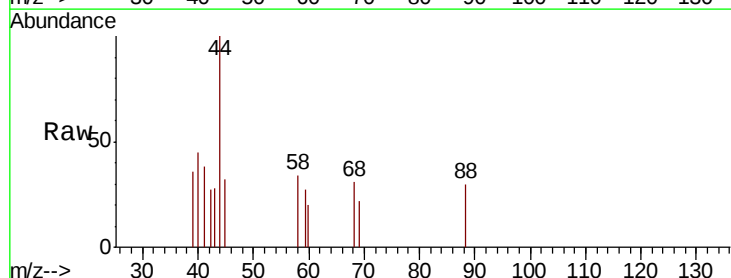
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

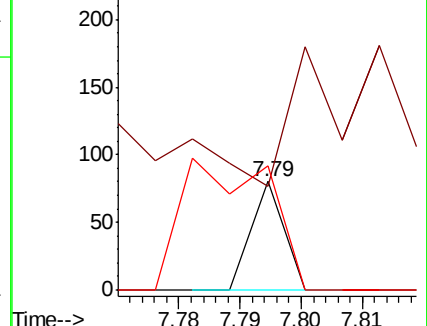
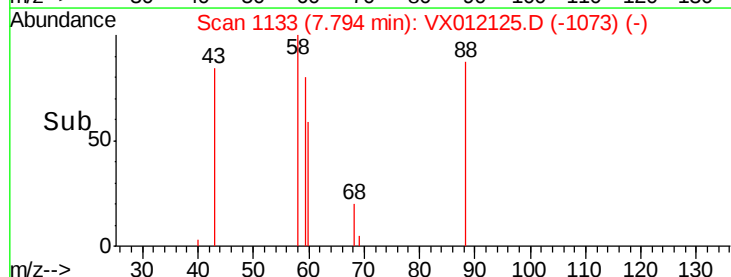
58 327.6 55.4 83.2#

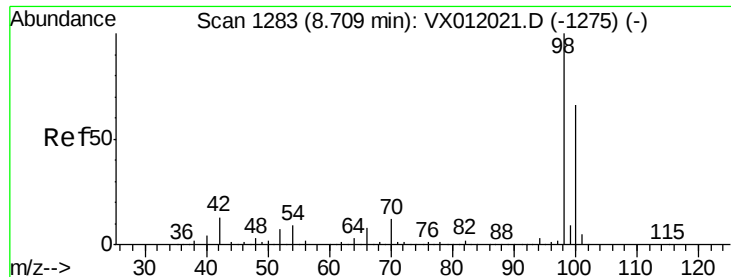


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

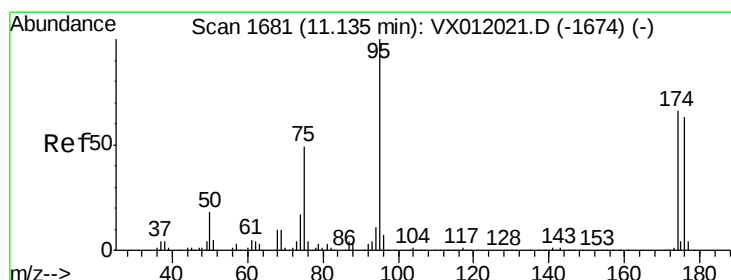
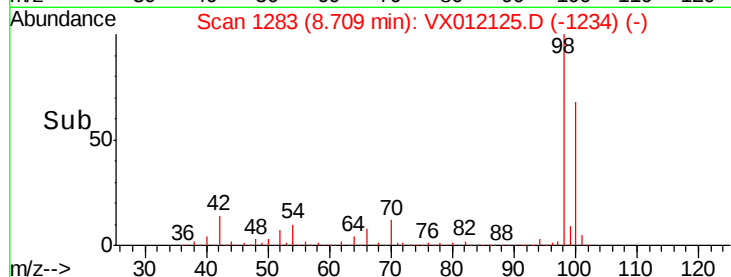
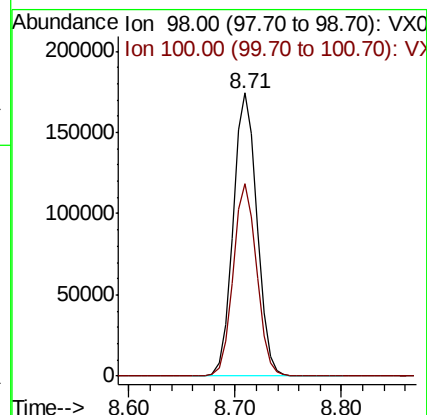
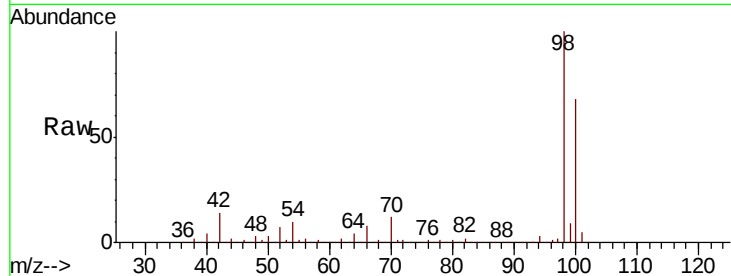




#50  
Toluene-d8  
Concen: 50.566 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012125.D  
Acq: 06 Sep 2019 03:48

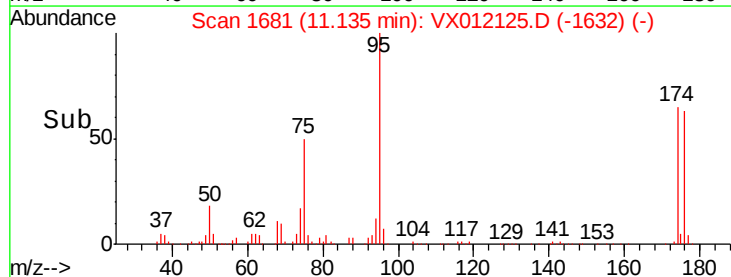
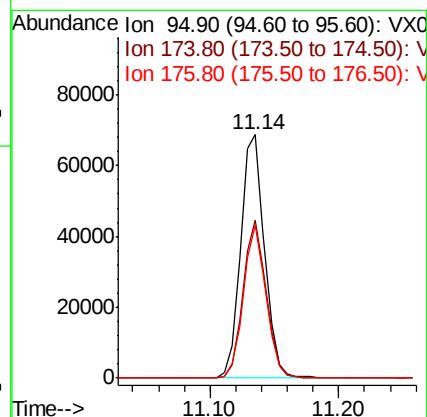
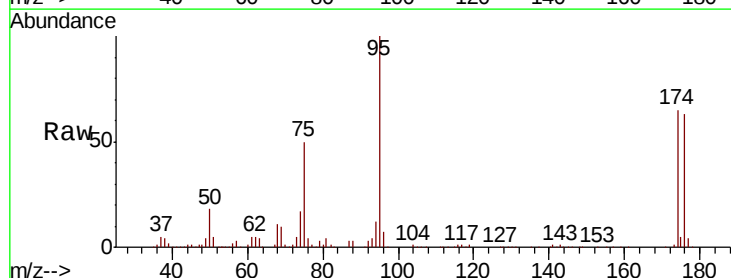
Instrument :  
MSVOA\_X  
ClientSampleId :  
SB-4-20-22

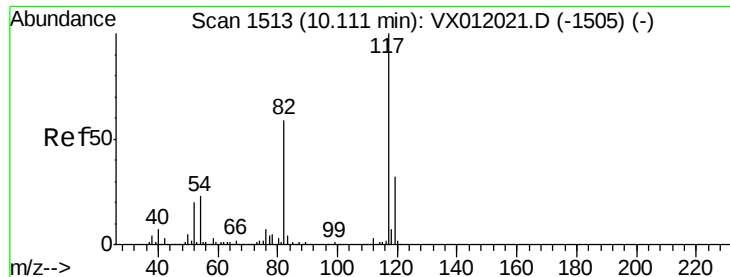
Tgt Ion: 98 Resp: 274240  
Ion Ratio Lower Upper  
98 100  
100 67.0 53.3 79.9



#62  
4-Bromofluorobenzene  
Concen: 34.995 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. -0.00 min  
Lab File: VX012125.D  
Acq: 06 Sep 2019 03:48

Tgt Ion: 95 Resp: 88266  
Ion Ratio Lower Upper  
95 100  
174 62.7 0.0 205.4  
176 59.5 0.0 201.8

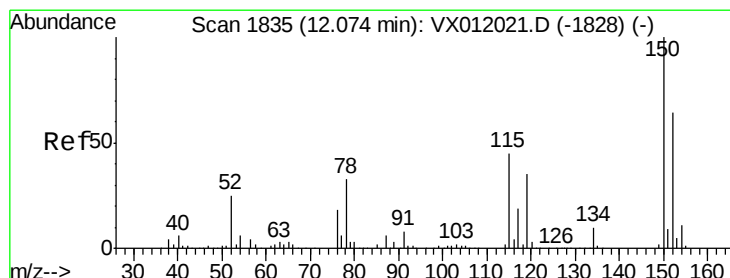
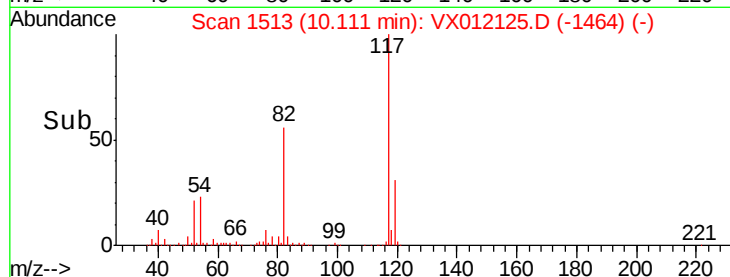
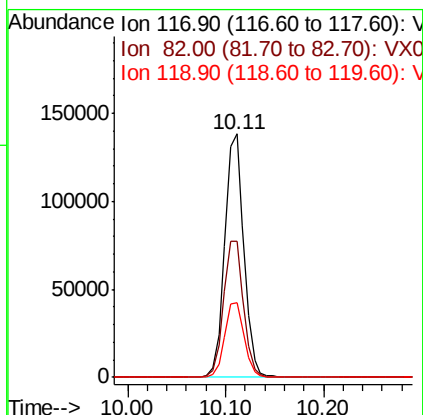
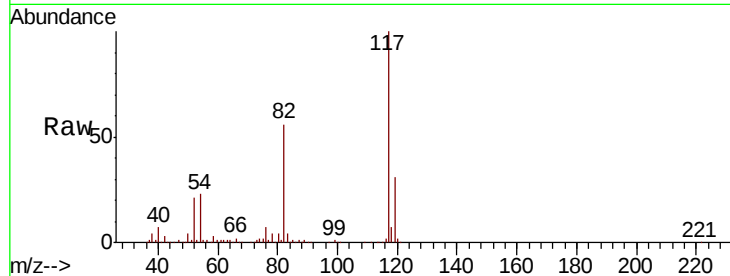




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012125.D  
Acq: 06 Sep 2019 03:48

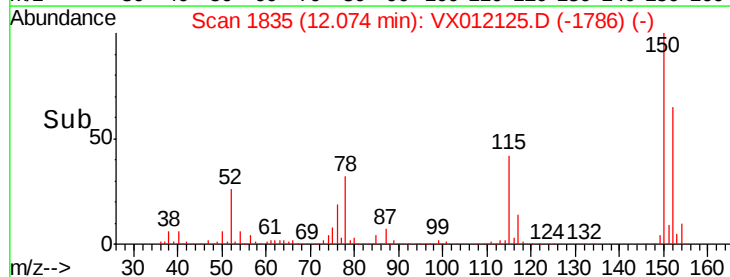
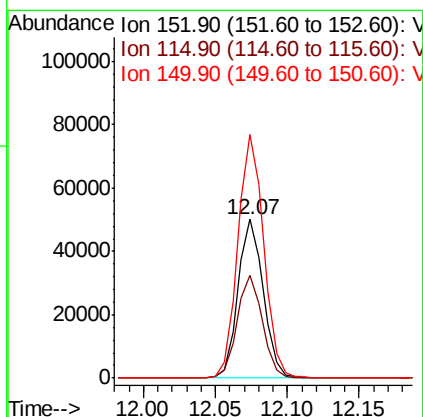
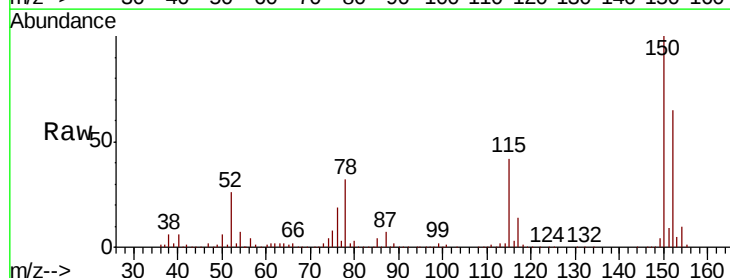
Instrument :  
MSVOA\_X  
ClientSampled :  
SB-4-20-22

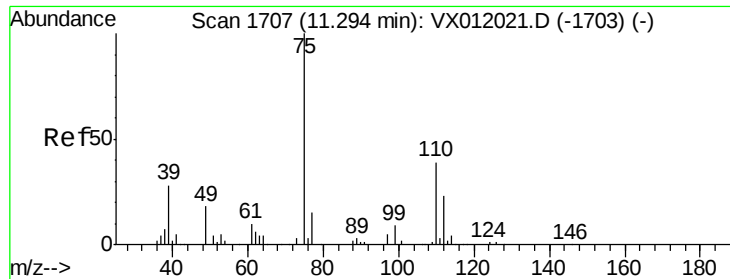
Tgt Ion:117 Resp: 187391  
Ion Ratio Lower Upper  
117 100  
82 56.2 39.4 59.0  
119 30.9 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012125.D  
Acq: 06 Sep 2019 03:48

Tgt Ion:152 Resp: 61476  
Ion Ratio Lower Upper  
152 100  
115 64.9 36.4 109.3  
150 156.3 0.0 341.2





#76

1,2,3-Trichloropropane

Concen: 60.940 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampleId :

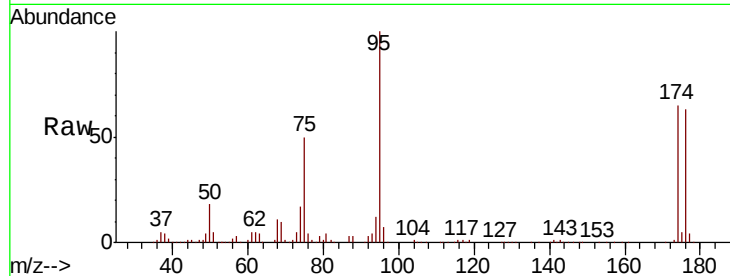
SB-4-20-22

Tgt Ion: 75 Resp: 45775

Ion Ratio Lower Upper

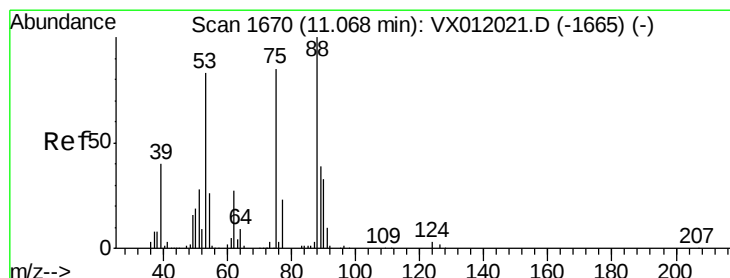
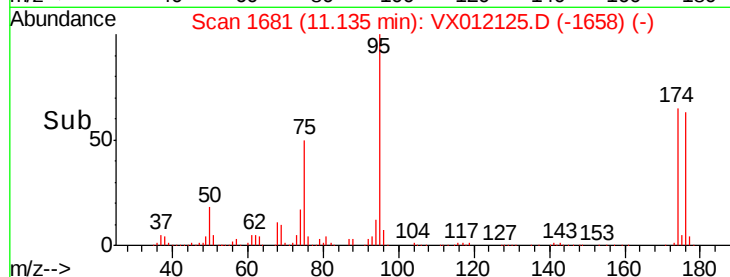
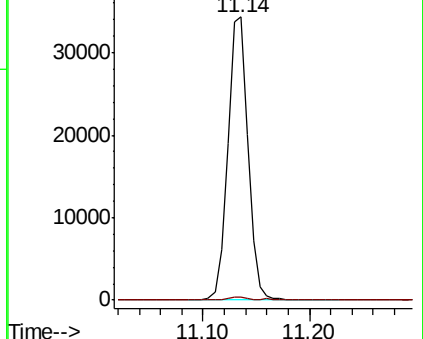
75 100

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: 144.073 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

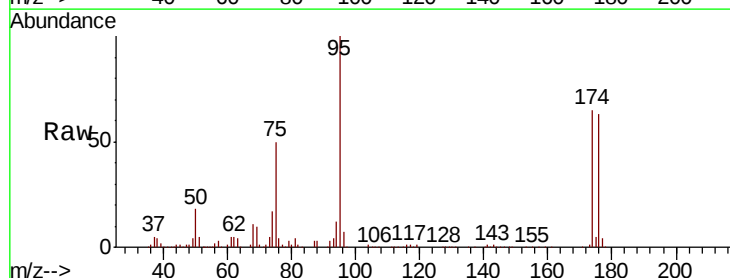
Tgt Ion: 75 Resp: 45775

Ion Ratio Lower Upper

75 100

53 0.4 78.6 117.8#

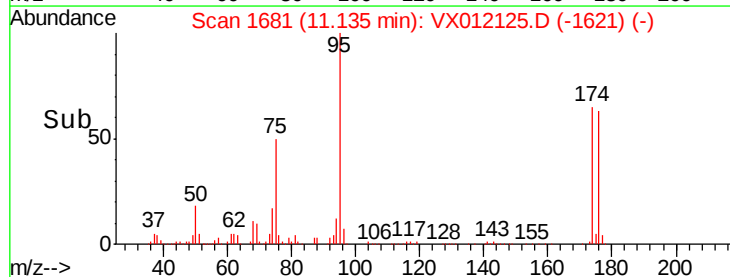
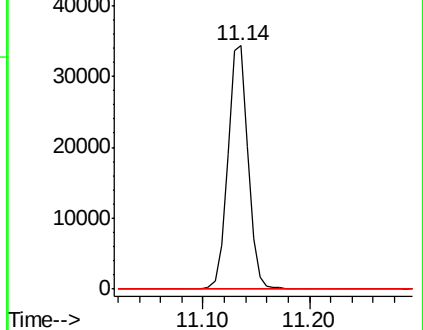
89 0.0 38.8 58.2#

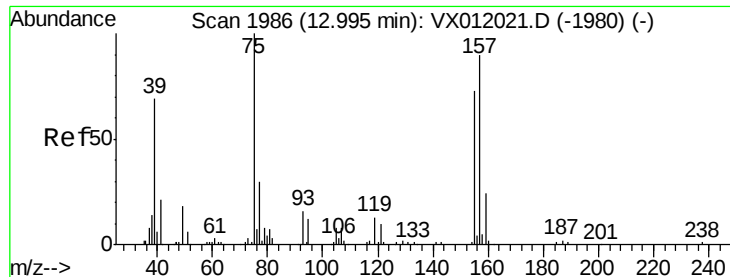


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.484 ug/l

RT: 13.01 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

Instrument :

MSVOA\_X

ClientSampled :

SB-4-20-22

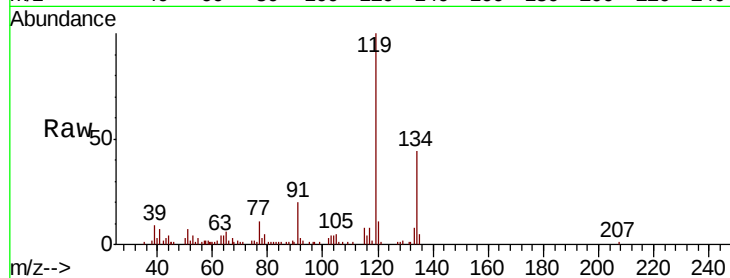
Tgt Ion: 75 Resp: 292

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.2#

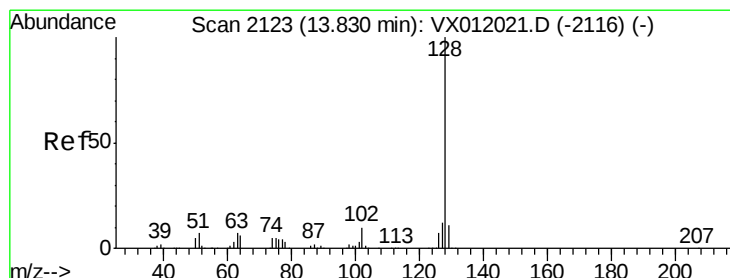
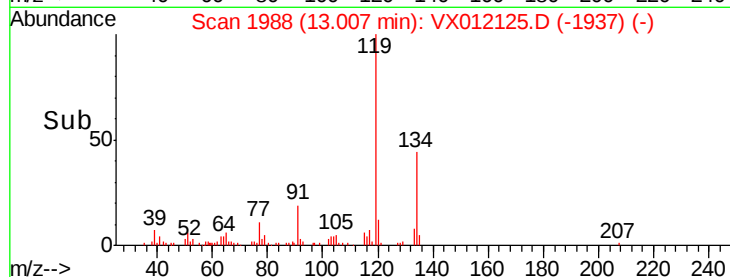
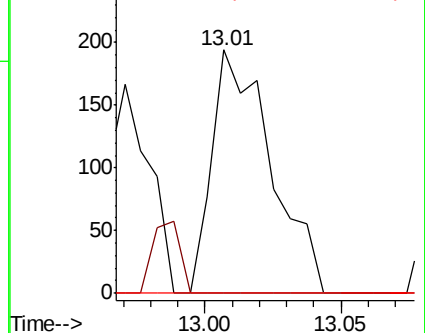
157 0.0 66.9 200.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 1.809 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX012125.D

Acq: 06 Sep 2019 03:48

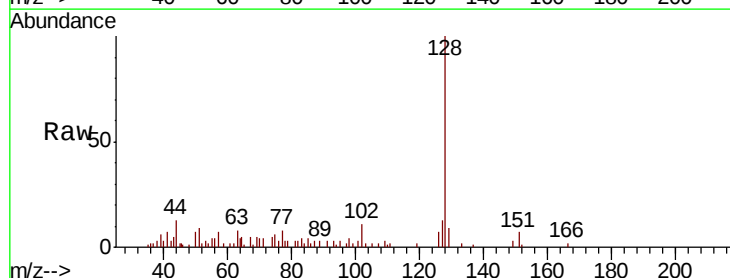
Tgt Ion: 128 Resp: 5072

Ion Ratio Lower Upper

128 100

127 16.7 10.5 15.7#

129 13.3 8.8 13.2#



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

