

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050720\  
 Data File : VY002624.D  
 Acq On : 07 May 2020 12:30  
 Operator : SY/MD  
 Sample : L2525-01  
 Misc : 4.63G/5ML/MSVOA Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-1

Quant Time: May 08 03:00:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 303012   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 453100   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 312120   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 91348    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 124265   | 48.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.54%  |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 132402   | 51.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 102.18% |          |
| 50) Toluene-d8              | 10.19 | 98   | 500269   | 49.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.88%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 118415   | 34.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 68.98%  |          |

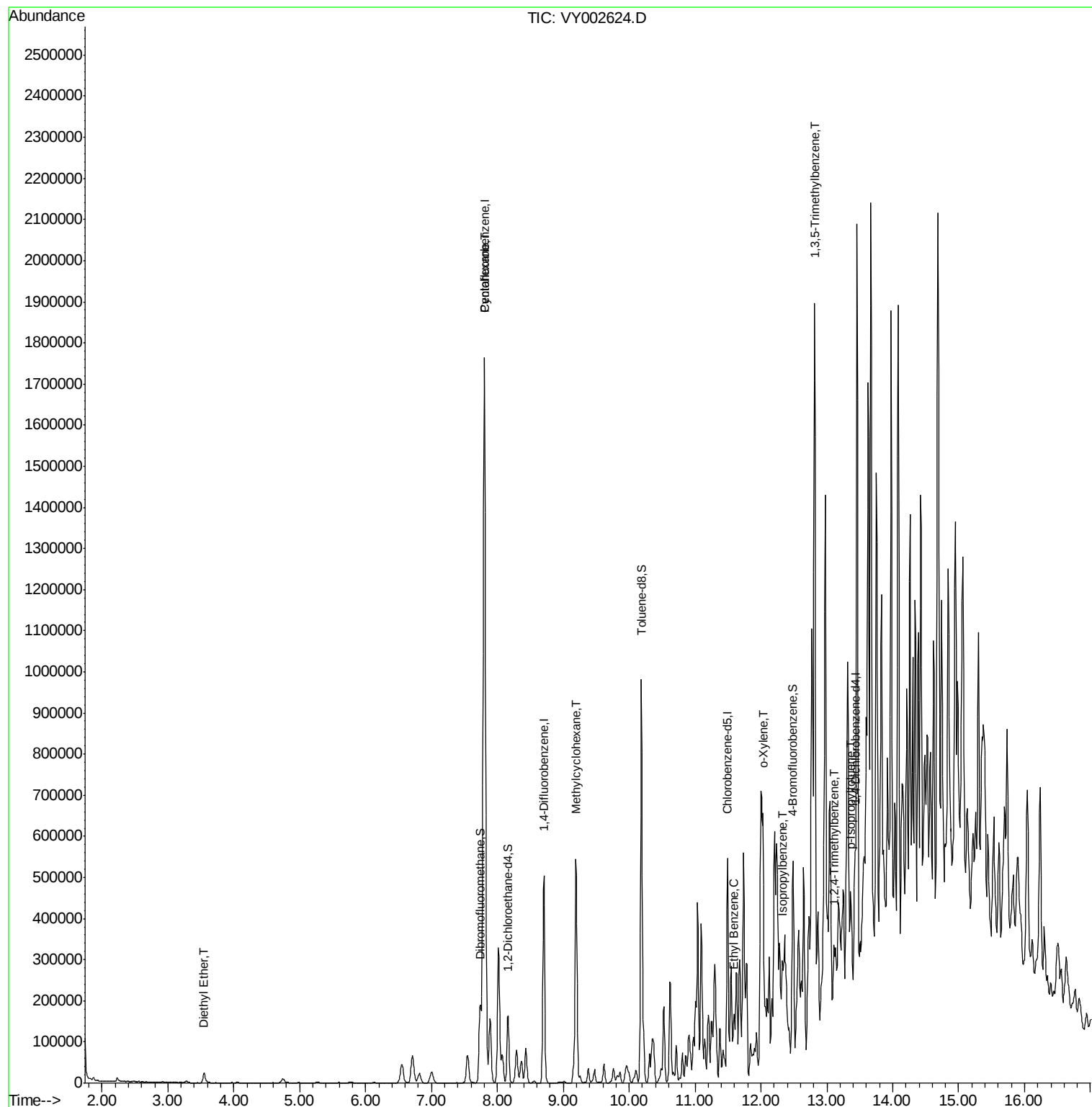
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|----------------------------|-------|------|----------|---------|-------|--------|
| 8) Diethyl Ether           | 3.55  | 74   | 14799    | 10.024  | ug/l  | 98     |
| 31) Cyclohexane            | 7.80  | 56   | 843620   | 184.223 | ug/l  | 95     |
| 39) Methylcyclohexane      | 9.19  | 83   | 244245   | 48.684  | ug/l  | 98     |
| 67) Ethyl Benzene          | 11.60 | 91   | 32319    | 3.101   | ug/l  | 100    |
| 69) o-Xylene               | 12.03 | 106  | 103236   | 27.341  | ug/l  | 99     |
| 73) Isopropylbenzene       | 12.33 | 105  | 6217     | 1.050   | ug/l  | 100    |
| 80) 1,3,5-Trimethylbenzene | 12.81 | 105  | 609800   | 124.261 | ug/l  | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.12 | 105  | 23931    | 4.893   | ug/l  | 97     |
| 86) p-Isopropyltoluene     | 13.38 | 119  | 101499   | 18.142  | ug/l  | 98     |

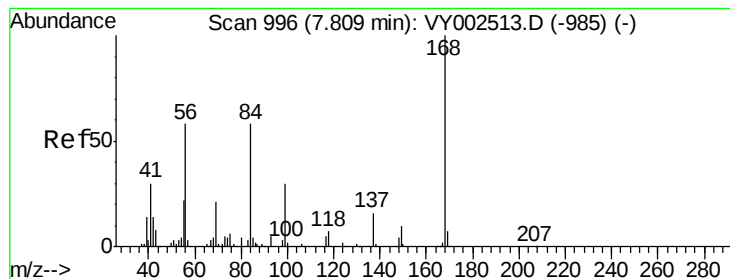
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY050720\  
Data File : VY002624.D  
Acq On : 07 May 2020 12:30  
Operator : SY/MD  
Sample : L2525-01  
Misc : 4.63G/5ML/MSVOA Y/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-1

Quant Time: May 08 03:00:14 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.00 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

Instrument :

MSVOA\_Y

ClientSampled :

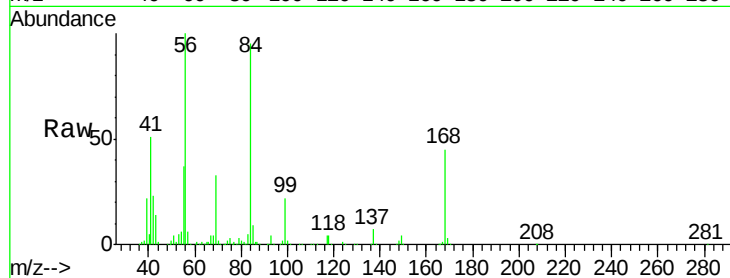
DRUM-1

Tot Ion:168 Resp: 303012

Ion Ratio Lower Upper

168 100

99 49.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002624.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY002624.D (-947) (-)

7.81

150000

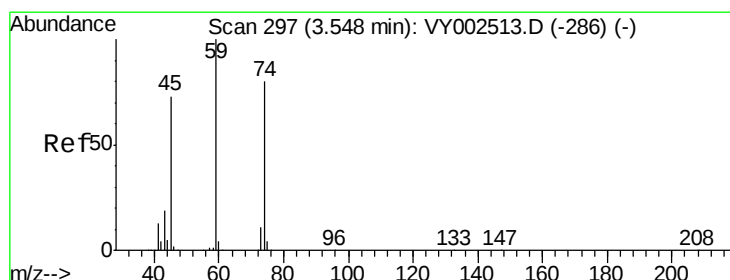
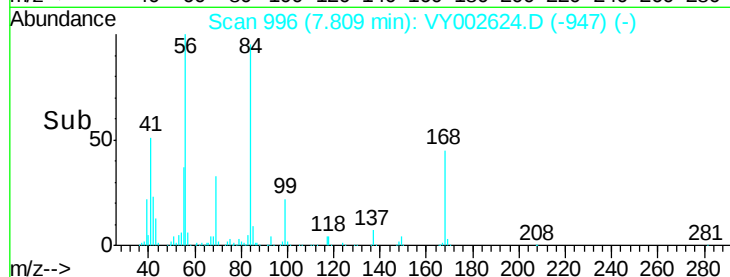
100000

50000

0

7.70 7.80 7.90

Time-->



#8

Diethyl Ether

Concen: 10.024 ug/l

RT: 3.55 min Scan# 298

Delta R.T. 0.01 min

Lab File: VY002624.D

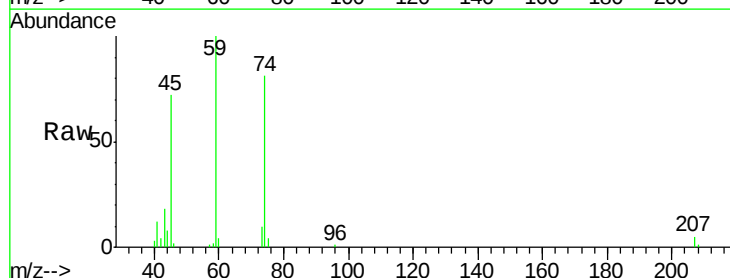
Acq: 07 May 2020 12:30

Tgt Ion: 74 Resp: 14799

Ion Ratio Lower Upper

74 100

45 90.0 46.2 138.5



Abundance Ion 74.00 (73.70 to 74.70): VY002624.D (-248) (-)

Ion 45.00 (44.70 to 45.70): VY002624.D (-248) (-)

3.55

6000

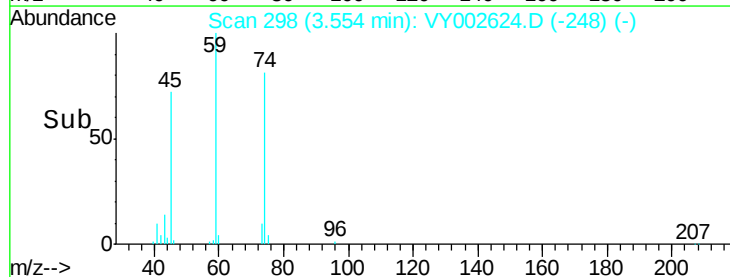
4000

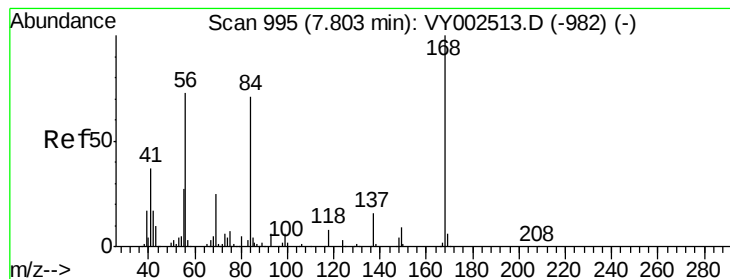
2000

0

3.50 3.60 3.70

Time-->





#31

Cyclohexane

Concen: 184.223 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

DRUM-1

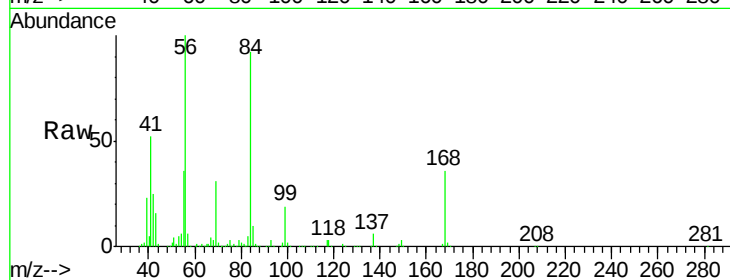
Tot Ion: 56 Resp: 843620

Ion Ratio Lower Upper

56 100

69 31.1 27.6 41.4

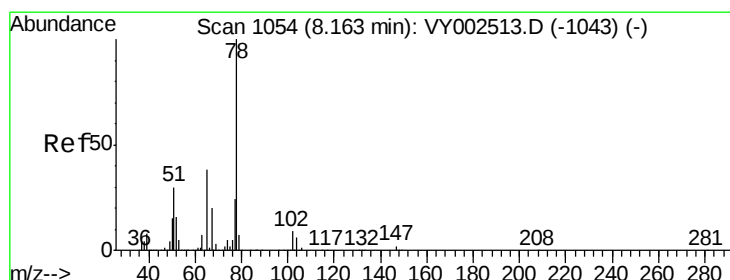
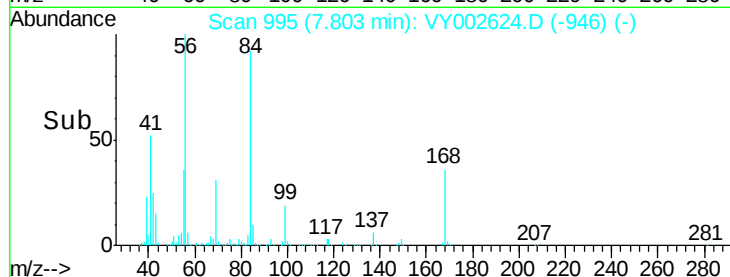
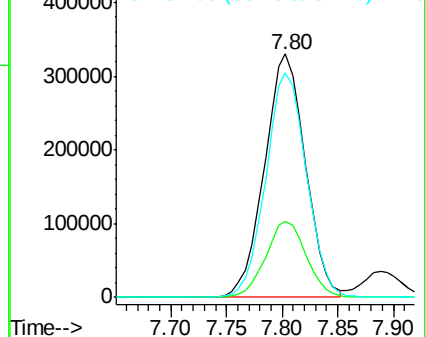
84 92.0 77.7 116.5



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 48.774 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VY002624.D

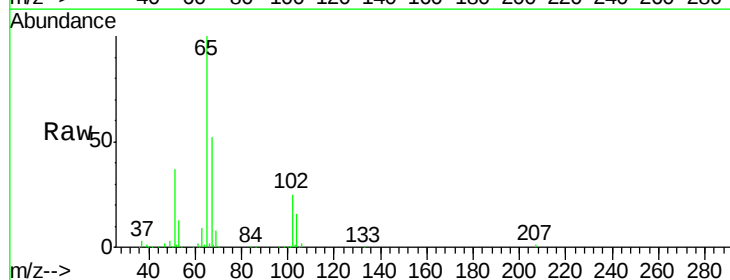
Acq: 07 May 2020 12:30

Tgt Ion: 65 Resp: 124265

Ion Ratio Lower Upper

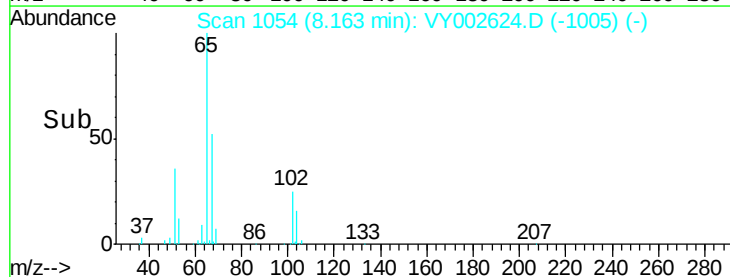
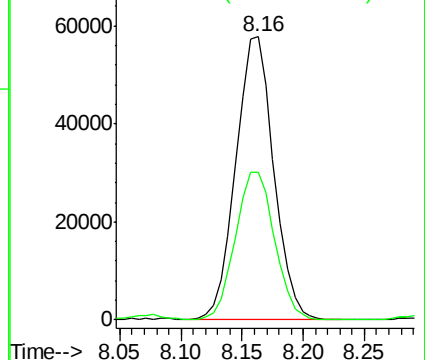
65 100

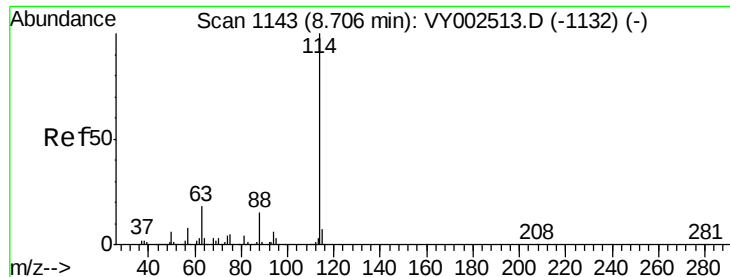
67 54.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

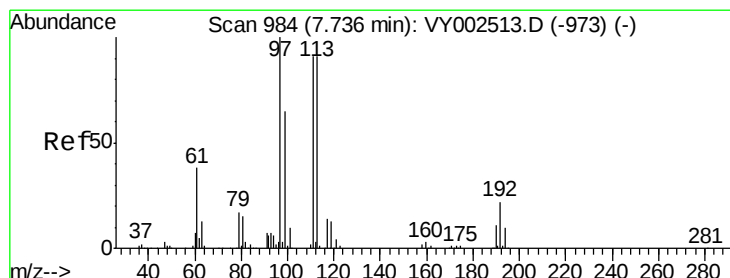
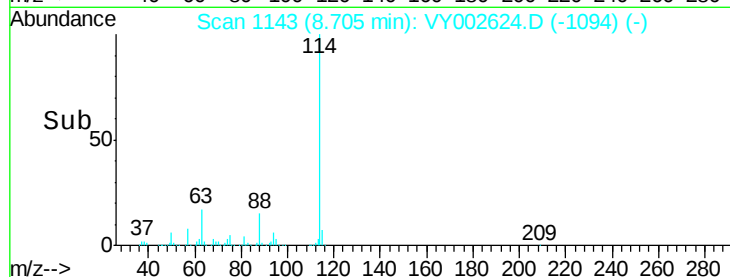
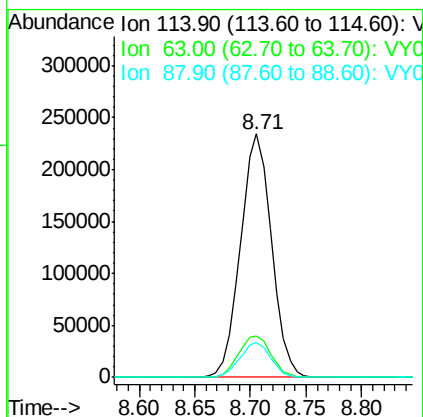
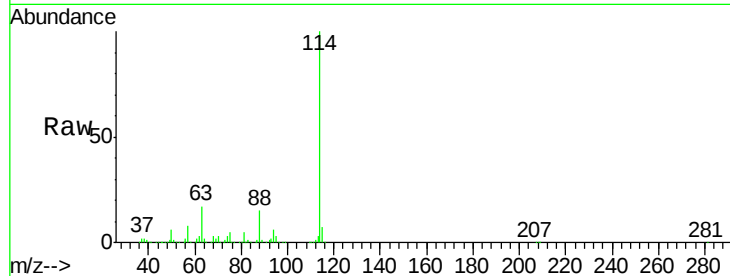




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.00 min  
 Lab File: VY002624.D  
 Acq: 07 May 2020 12:30

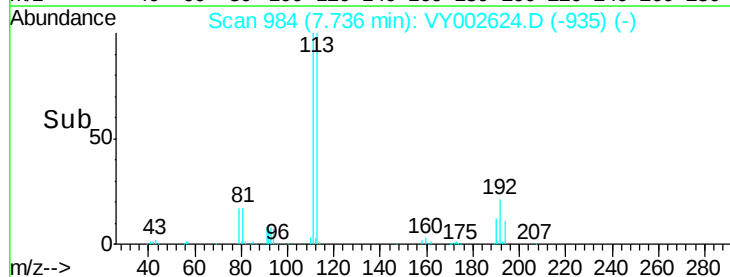
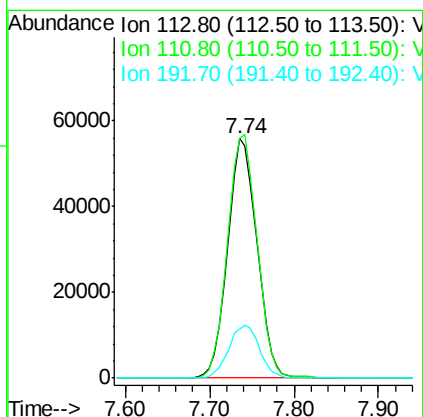
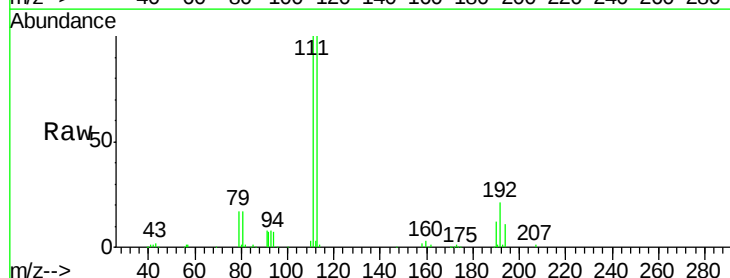
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-1

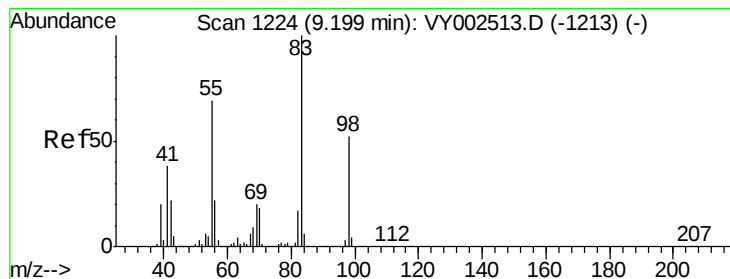
Tot Ion:114 Resp: 453100  
 Ion Ratio Lower Upper  
 114 100  
 63 17.1 0.0 36.4  
 88 14.6 0.0 29.6



#35  
 Dibromofluoromethane  
 Concen: 51.095 ug/l  
 RT: 7.74 min Scan# 984  
 Delta R.T. -0.00 min  
 Lab File: VY002624.D  
 Acq: 07 May 2020 12:30

Tgt Ion:113 Resp: 132402  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 81.8 122.6  
 192 22.9 18.2 27.4





#39

Methvlcvclohexane

Concen: 48.684 ug/l

RT: 9.19 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

DRUM-1

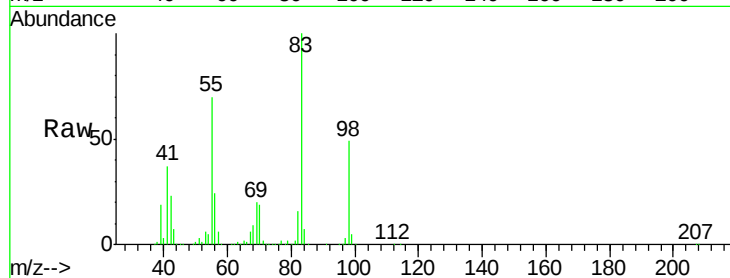
Tot Ion: 83 Resp: 244245

Ion Ratio Lower Upper

83 100

55 70.1 55.4 83.0

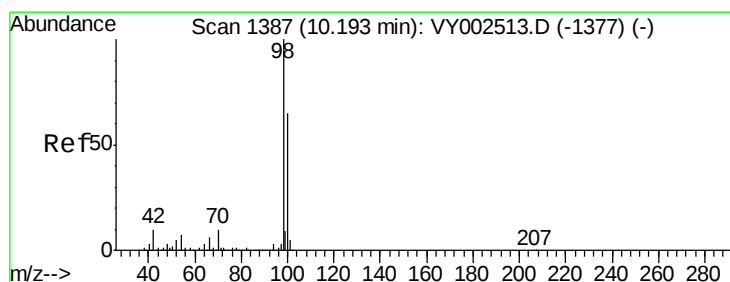
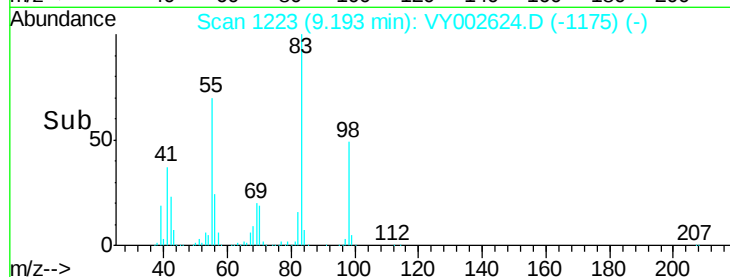
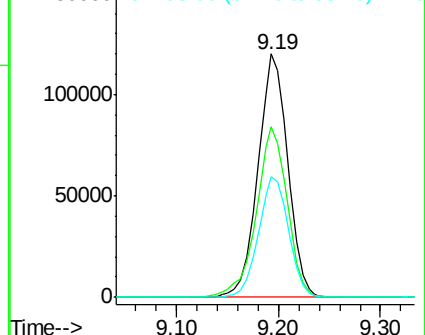
98 49.4 41.3 61.9



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0



#50

Toluene-d8

Concen: 49.437 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY002624.D

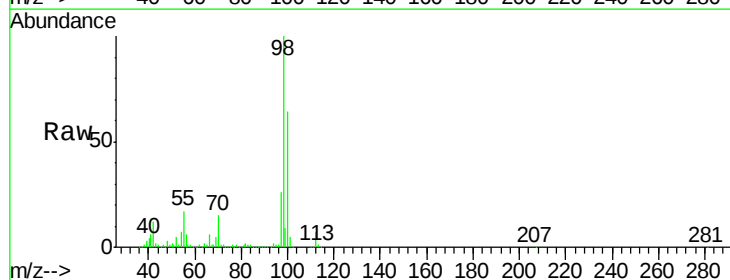
Acq: 07 May 2020 12:30

Tgt Ion: 98 Resp: 500269

Ion Ratio Lower Upper

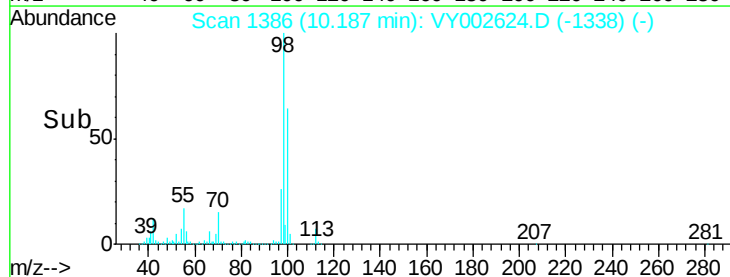
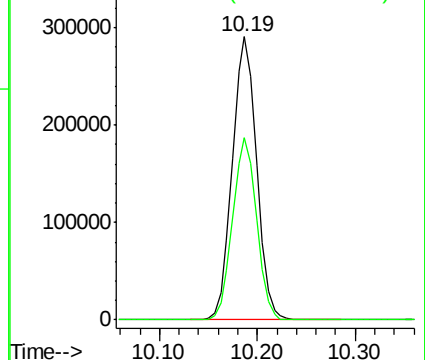
98 100

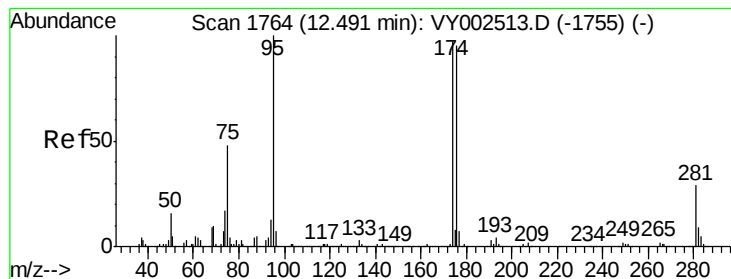
100 63.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#62

4-Bromofluorobenzene

Concen: 34.486 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

DRUM-1

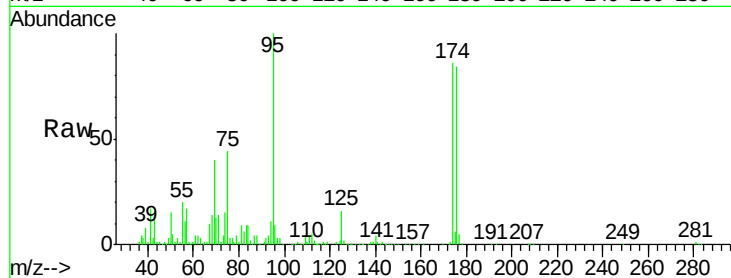
Tot Ion: 95 Resp: 118415

Ion Ratio Lower Upper

95 100

174 81.5 0.0 188.8

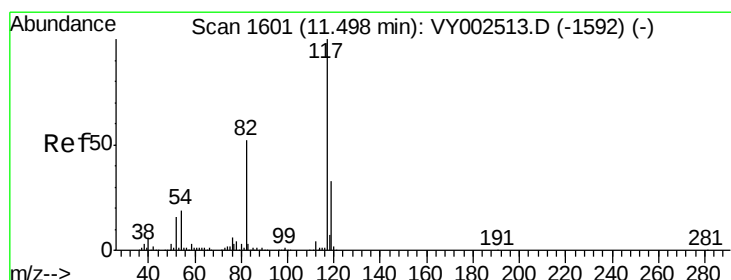
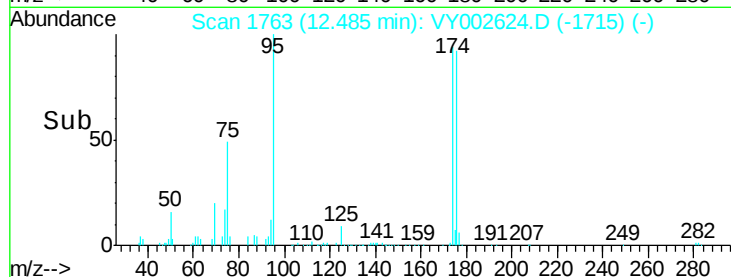
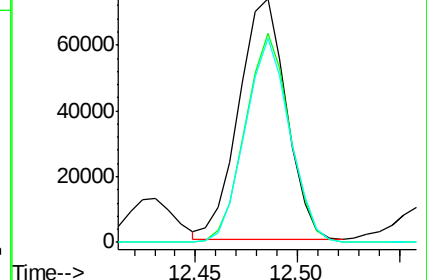
176 79.6 0.0 183.2



Abundance Ion 94.90 (94.60 to 95.60): VY002513.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY002513.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY002513.D (-1755) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

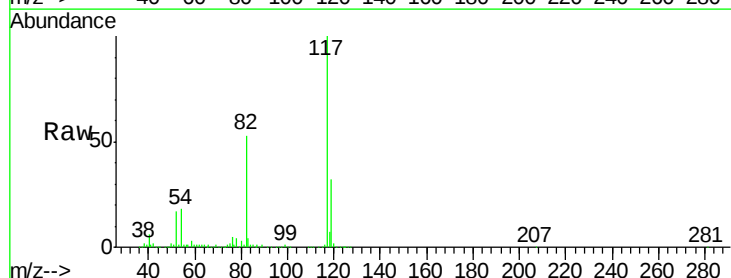
Tgt Ion: 117 Resp: 312120

Ion Ratio Lower Upper

117 100

82 49.2 41.3 61.9

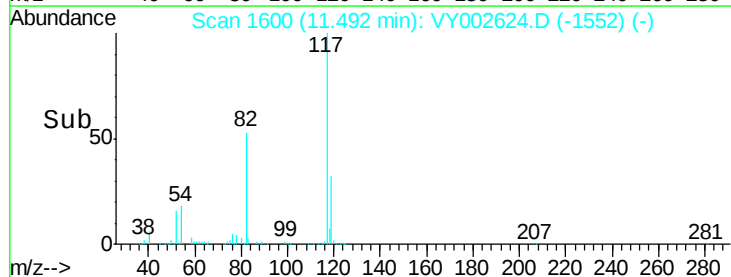
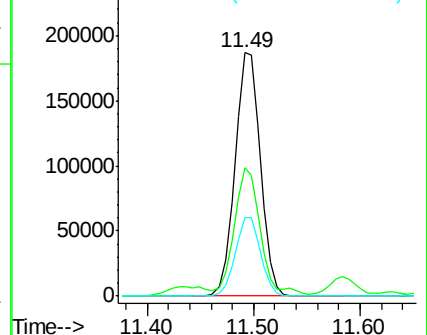
119 32.2 26.0 39.0

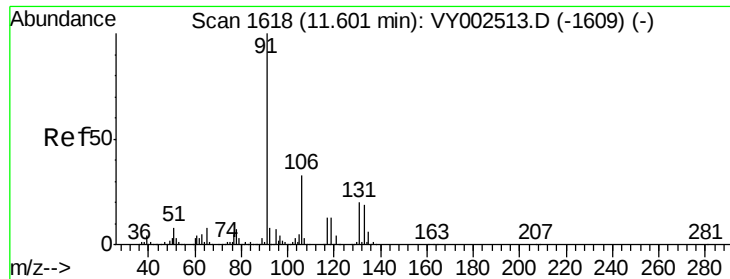


Abundance Ion 116.90 (116.60 to 117.60): VY002513.D (-1592) (-)

Ion 82.00 (81.70 to 82.70): VY002513.D (-1592) (-)

Ion 118.90 (118.60 to 119.60): VY002513.D (-1592) (-)





#67

Ethyl Benzene

Concen: 3.101 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

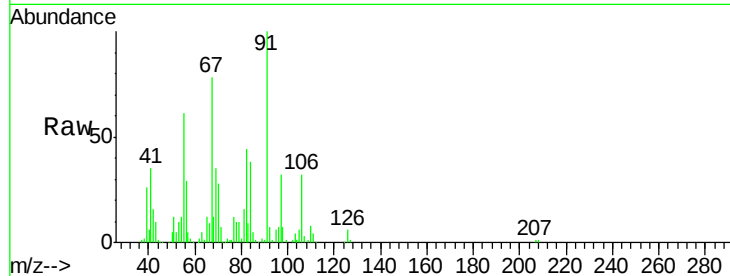
DRUM-1

Tot Ion: 91 Resp: 32319

Ion Ratio Lower Upper

91 100

106 32.5 26.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VY002513.D (-1609) (-)

Ion 106.00 (105.70 to 106.70): VY002513.D (-1609) (-)

11.60

20000

15000

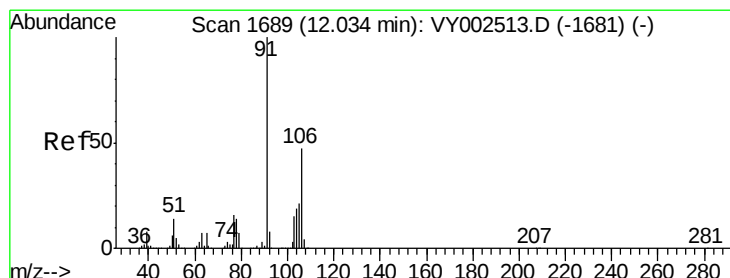
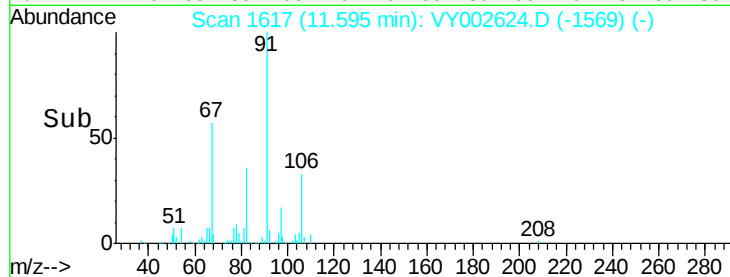
10000

5000

0

Time-->

11.55 11.60 11.65



#69

o-Xylene

Concen: 27.341 ug/l

RT: 12.03 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VY002624.D

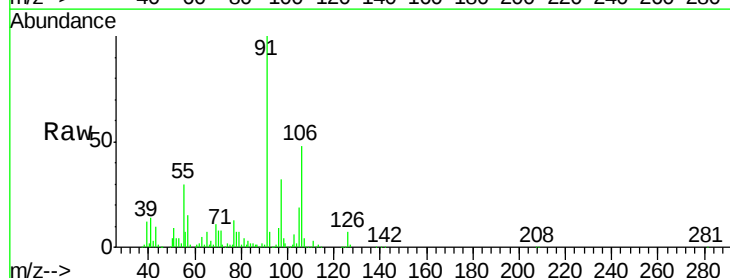
Acq: 07 May 2020 12:30

Tgt Ion: 106 Resp: 103236

Ion Ratio Lower Upper

106 100

91 206.3 103.8 311.3



Abundance Ion 106.00 (105.70 to 106.70): VY002513.D (-1681) (-)

Ion 91.00 (90.70 to 91.70): VY002513.D (-1681) (-)

12.03

150000

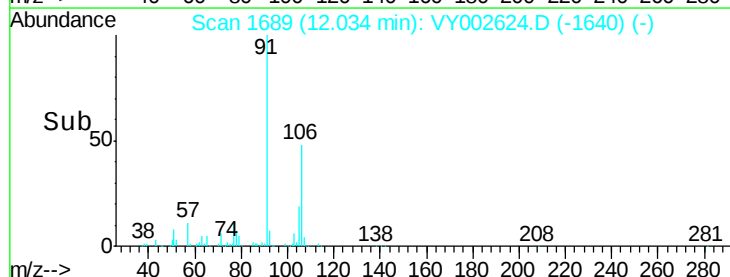
100000

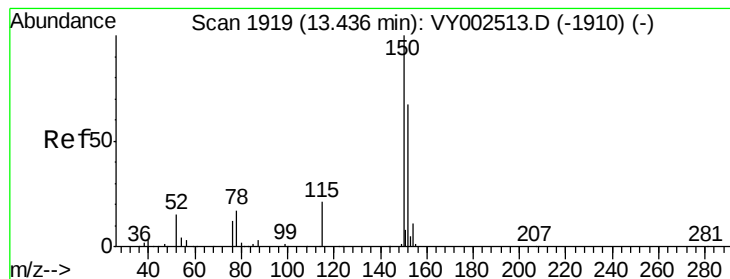
50000

0

Time-->

11.95 12.00 12.05 12.10





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

DRUM-1

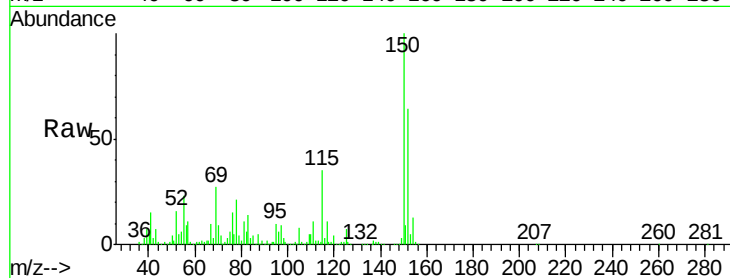
Tot Ion:152 Resp: 91348

Ion Ratio Lower Upper

152 100

115 52.2 27.5 82.4

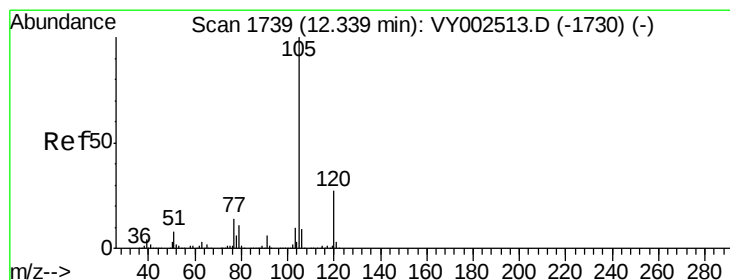
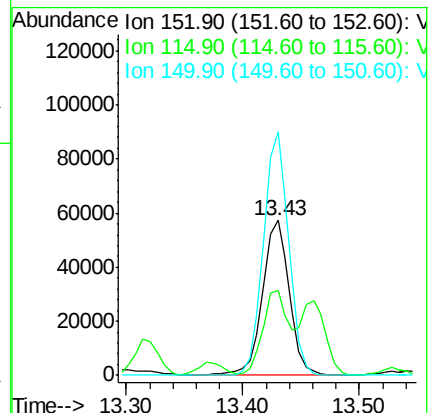
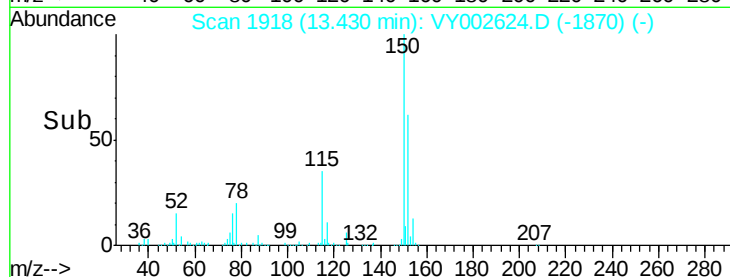
150 148.7 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 1.050 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. -0.01 min

Lab File: VY002624.D

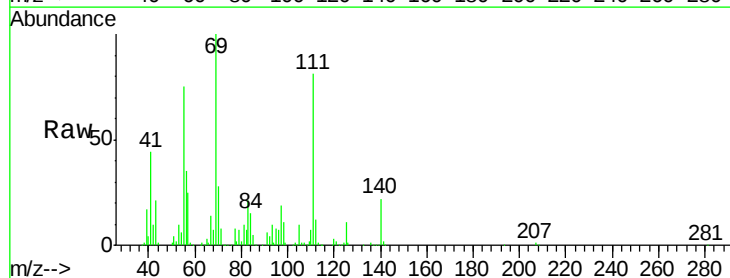
Acq: 07 May 2020 12:30

Tgt Ion:105 Resp: 6217

Ion Ratio Lower Upper

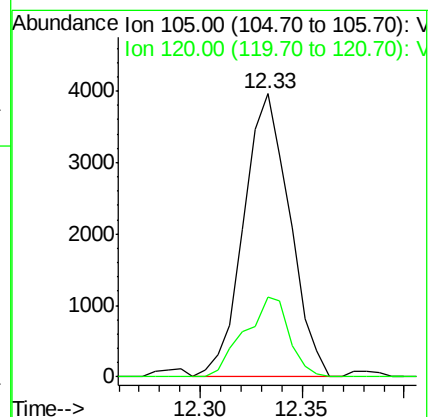
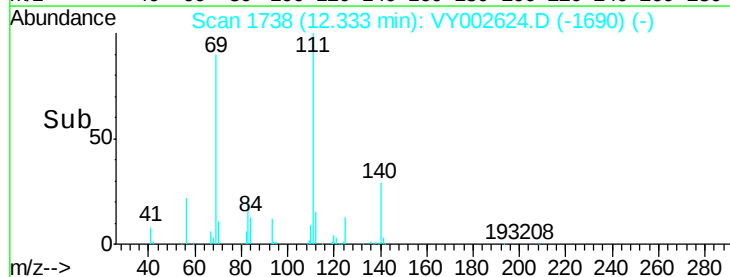
105 100

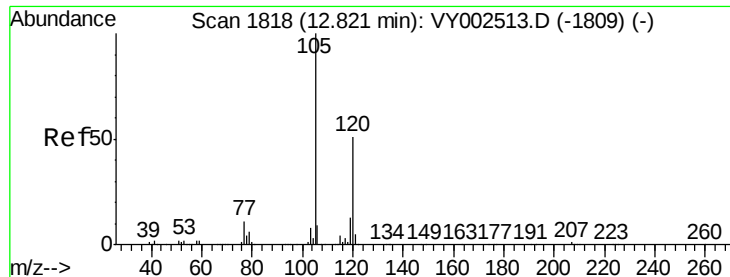
120 27.4 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 124.261 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY002624.D

Acq: 07 May 2020 12:30

Instrument :

MSVOA\_Y

ClientSampleId :

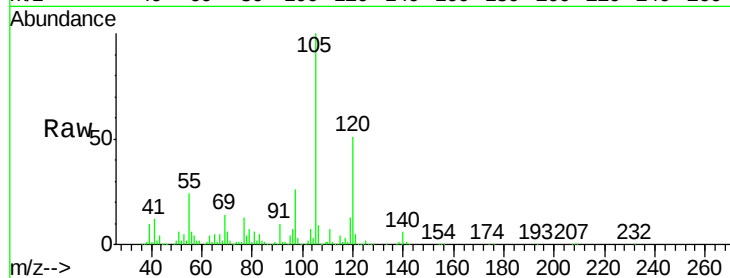
DRUM-1

Tot Ion:105 Resp: 609800

Ion Ratio Lower Upper

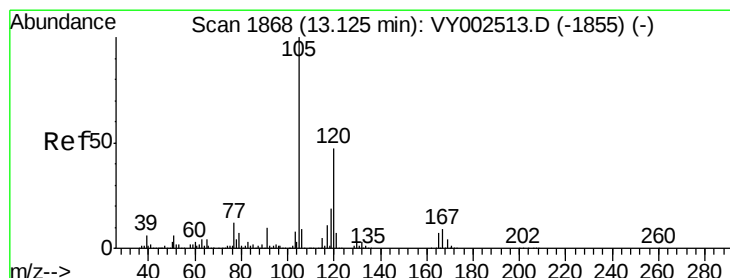
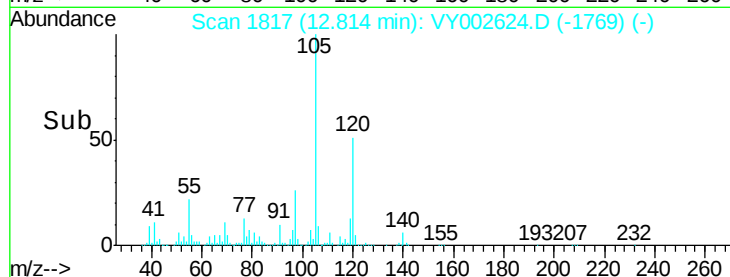
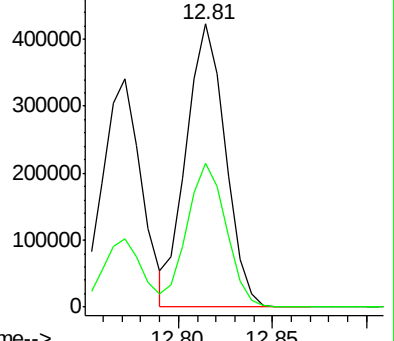
105 100

120 50.7 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 4.893 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.01 min

Lab File: VY002624.D

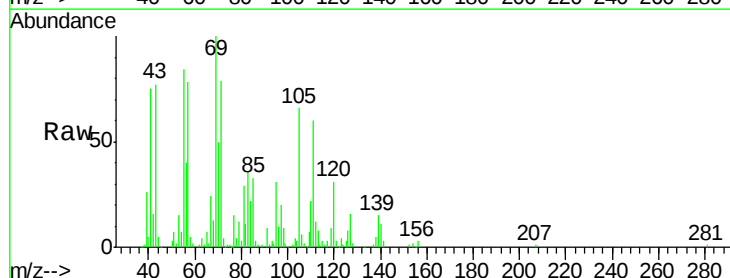
Acq: 07 May 2020 12:30

Tgt Ion:105 Resp: 23931

Ion Ratio Lower Upper

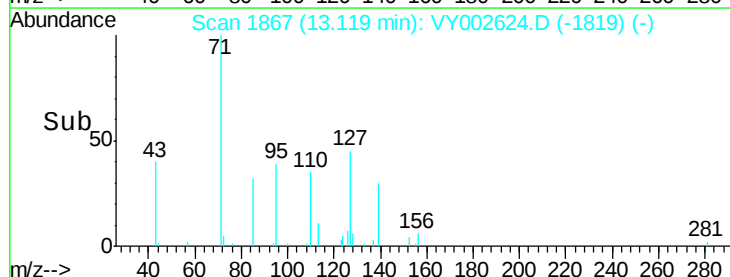
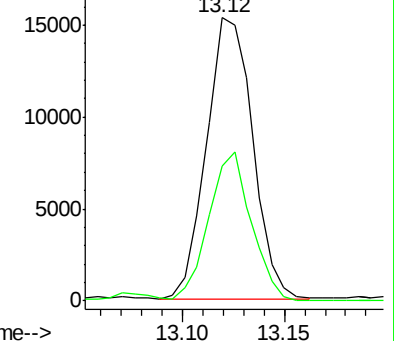
105 100

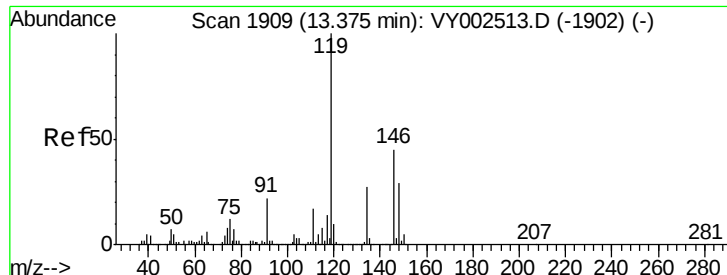
120 48.9 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#86  
 p-Isopropyltoluene  
 Concen: 18.142 ug/l  
 RT: 13.38 min Scan# 1909  
 Delta R.T. -0.00 min  
 Lab File: VY002624.D  
 Acq: 07 May 2020 12:30

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.4  | 13.5  | 40.5  |
| 91      | 20.8  | 10.9  | 32.9  |

