

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091919\  
 Data File : VW013161.D  
 Acq On : 19 Sep 2019 15:18  
 Operator : SY/VA  
 Sample : K4662-09  
 Misc : 5.83G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CL-02-091819

Quant Time: Sep 20 08:41:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 13 17:26:01 2019  
 Response via : Initial Calibration

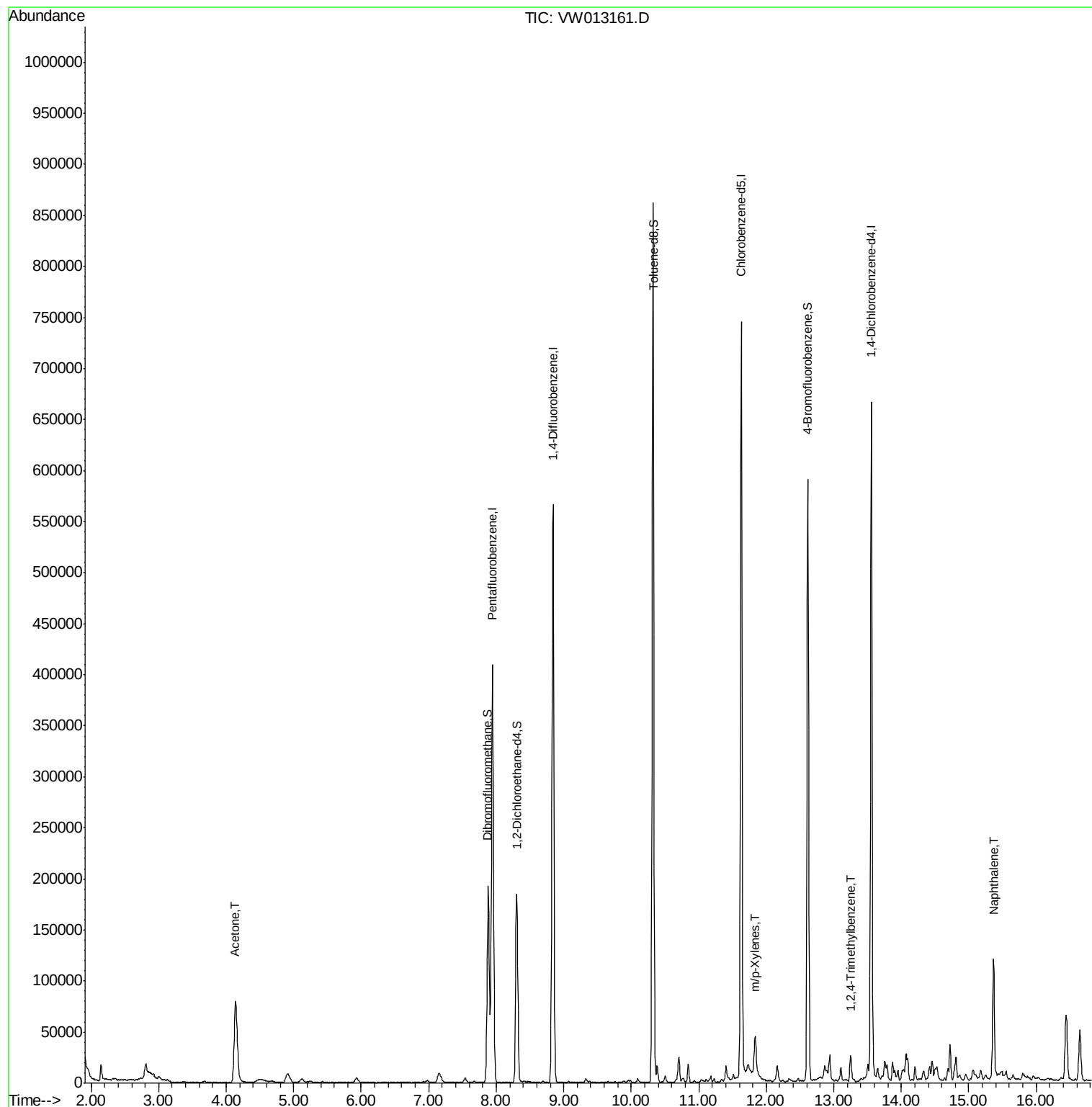
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 337009   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 502707   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 424878   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.55 | 152  | 188513   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 147241   | 47.31   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 94.62%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 141355   | 51.82   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 103.64% |          |
| 50) Toluene-d8              | 10.32 | 98   | 586155   | 54.91   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 109.82% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 186832   | 48.68   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 97.36%  |          |
| Target Compounds            |       |      |          |         |         |          |
| 16) Acetone                 | 4.14  | 43   | 170386   | 252.475 | ug/l    | 91       |
| 68) m/p-Xylenes             | 11.83 | 106  | 10408    | 2.038   | ug/l    | 92       |
| 84) 1,2,4-Trimethylbenzene  | 13.25 | 105  | 15168    | 1.452   | ug/l    | 99       |
| 95) Naphthalene             | 15.36 | 128  | 103321   | 17.303  | ug/l    | 100      |

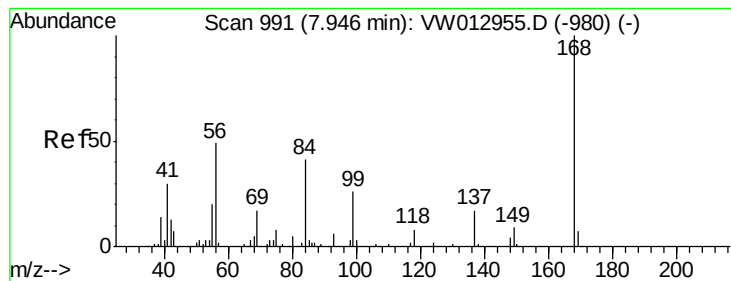
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091919\  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013161.D

Acq: 19 Sep 2019 15:18

Instrument :

MSVOA\_W

ClientSampleId :

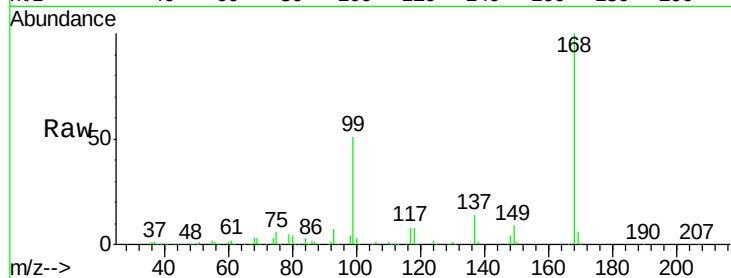
CL-02-091819

Tot Ion:168 Resp: 337009

Ion Ratio Lower Upper

168 100

99 50.8 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

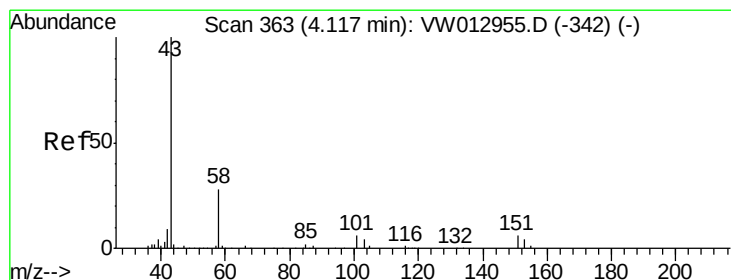
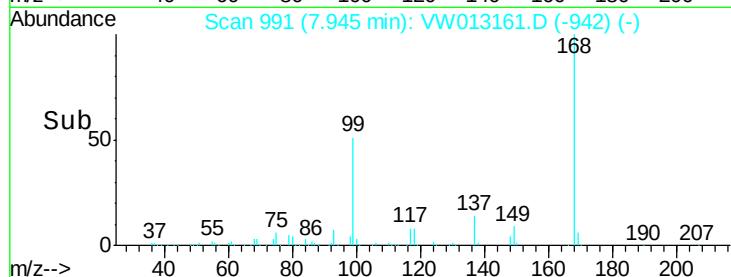
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 252.475 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013161.D

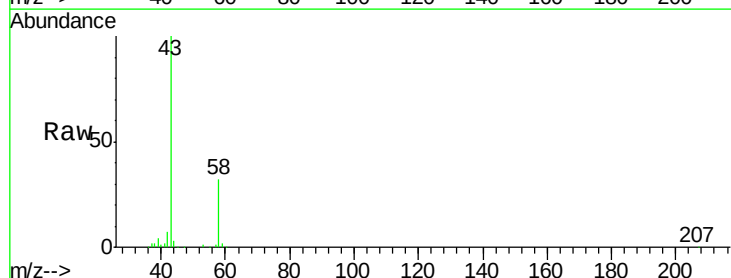
Acq: 19 Sep 2019 15:18

Tgt Ion: 43 Resp: 170386

Ion Ratio Lower Upper

43 100

58 32.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

60000

50000

40000

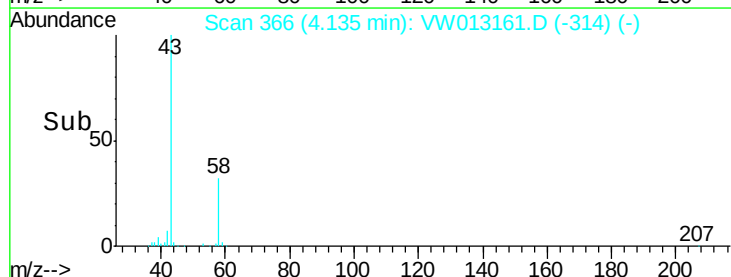
30000

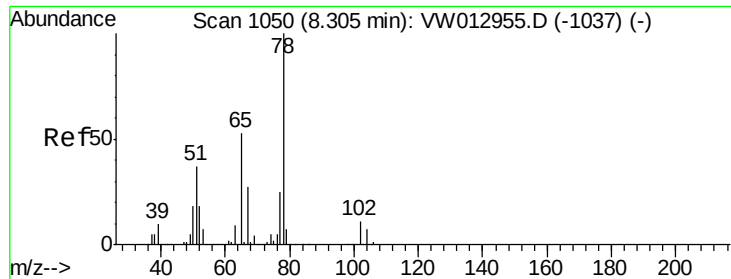
20000

10000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 47.306 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013161.D

Acq: 19 Sep 2019 15:18

Instrument :

MSVOA\_W

ClientSampleId :

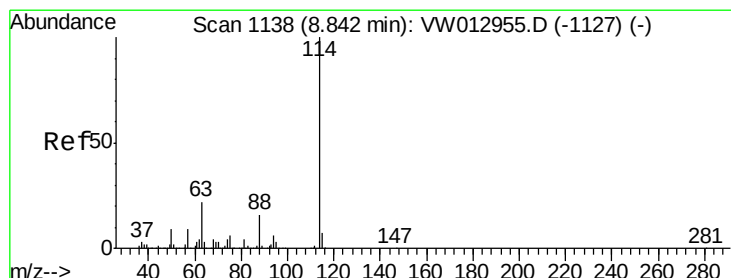
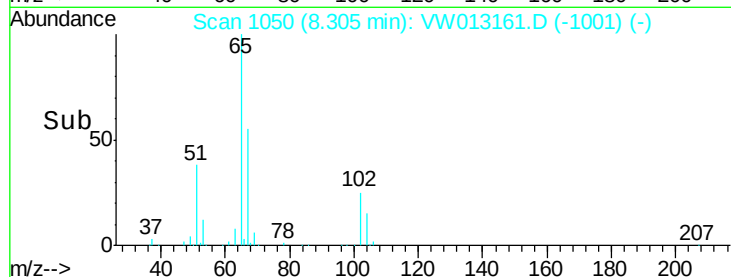
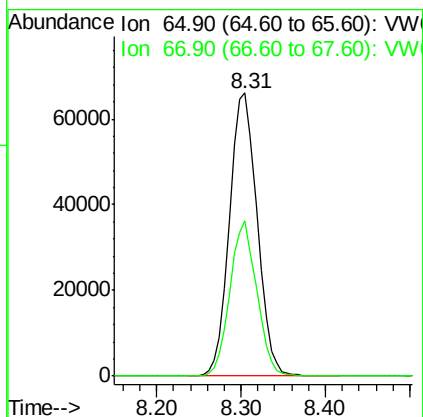
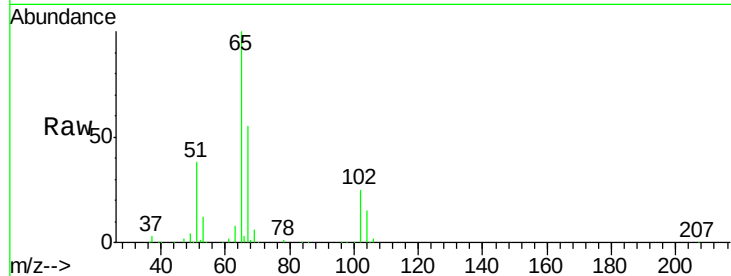
CL-02-091819

Tot Ion: 65 Resp: 147241

Ion Ratio Lower Upper

65 100

67 53.0 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013161.D

Acq: 19 Sep 2019 15:18

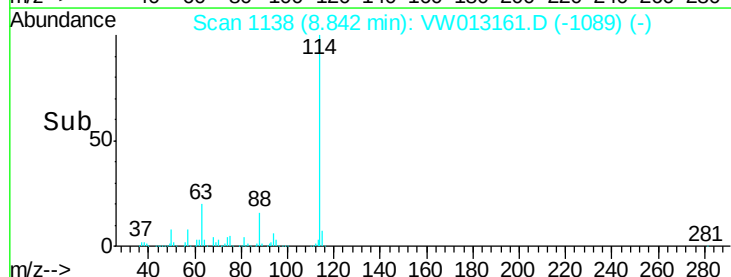
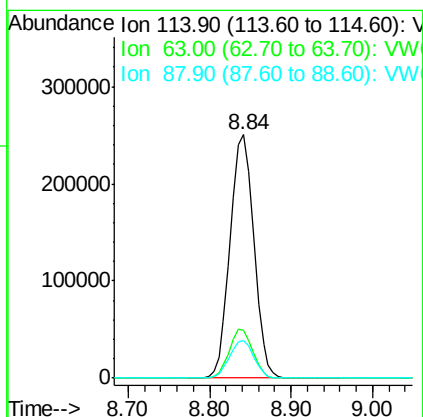
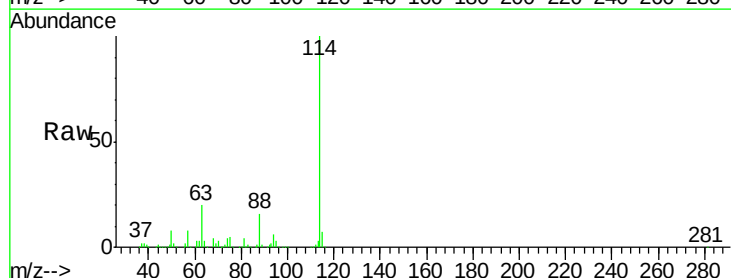
Tgt Ion: 114 Resp: 502707

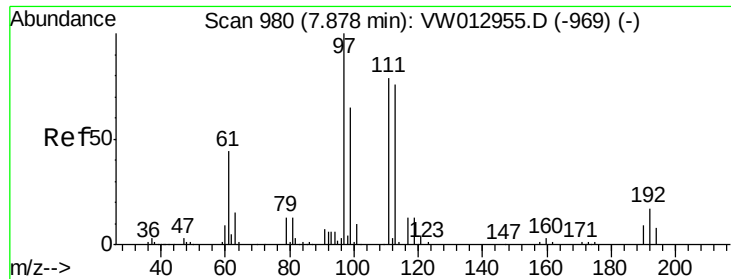
Ion Ratio Lower Upper

114 100

63 19.7 0.0 43.4

88 15.6 0.0 31.6

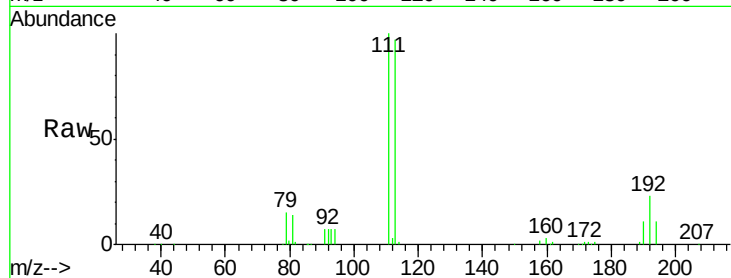




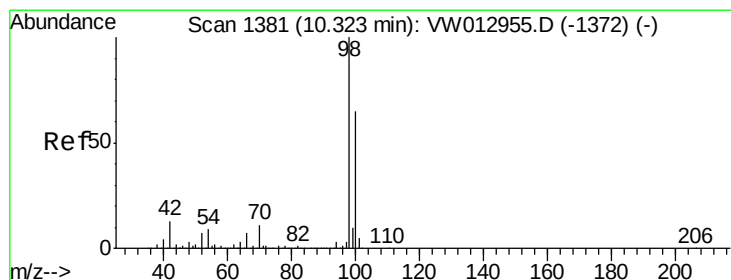
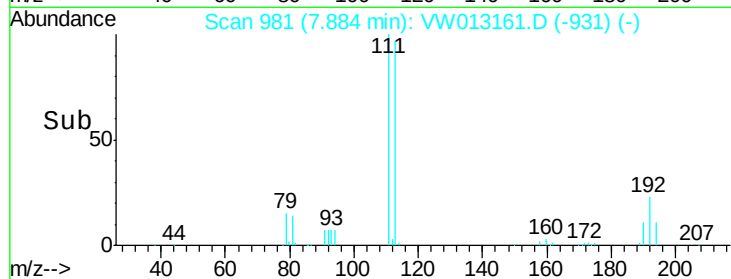
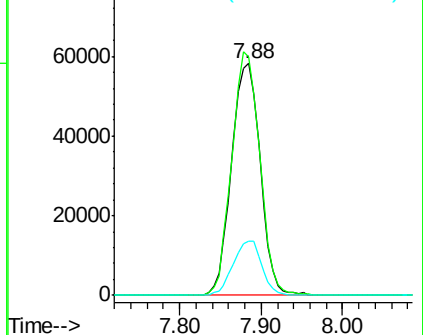
#35  
 Dibromofluoromethane  
 Concen: 51.821 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.01 min  
 Lab File: VW013161.D  
 Acq: 19 Sep 2019 15:18

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 CL-02-091819

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 82.8  | 124.2 |
| 192     | 23.3  | 17.8  | 26.8  |

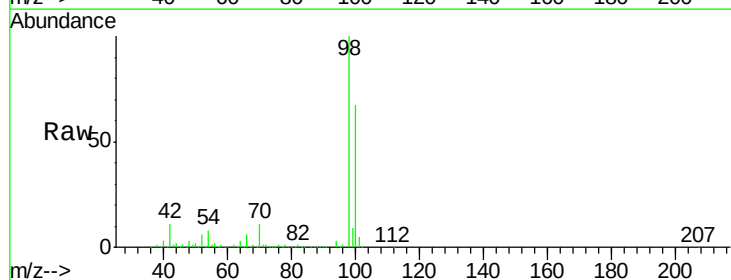


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

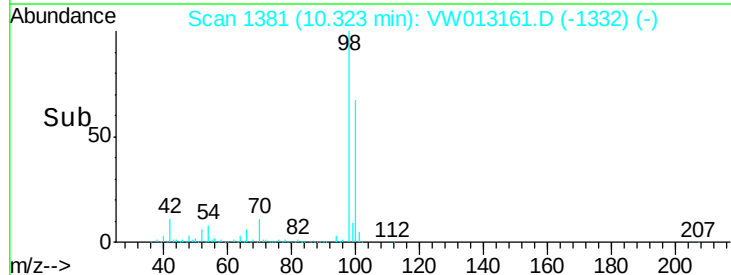
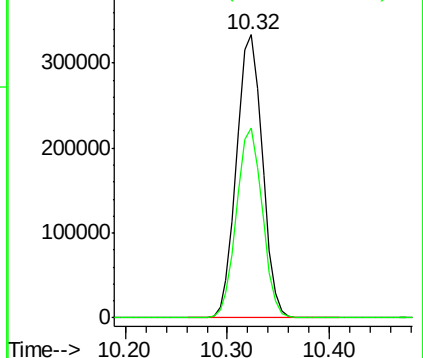


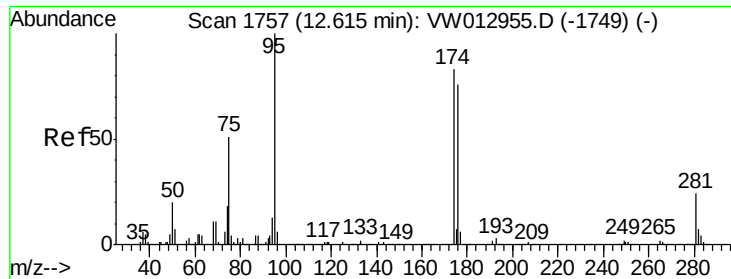
#50  
 Toluene-d8  
 Concen: 54.914 ug/l  
 RT: 10.32 min Scan# 1381  
 Delta R.T. -0.00 min  
 Lab File: VW013161.D  
 Acq: 19 Sep 2019 15:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.7  | 52.1  | 78.1  |



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





#62

4-Bromofluorobenzene

Concen: 48.678 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013161.D

Acq: 19 Sep 2019 15:18

Instrument :

MSVOA\_W

ClientSampleId :

CL-02-091819

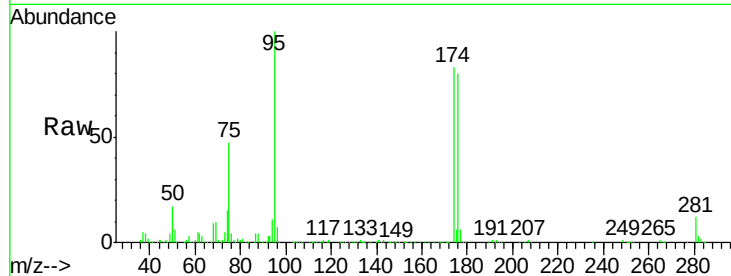
Tot Ion: 95 Resp: 186832

Ion Ratio Lower Upper

95 100

174 86.9 0.0 170.4

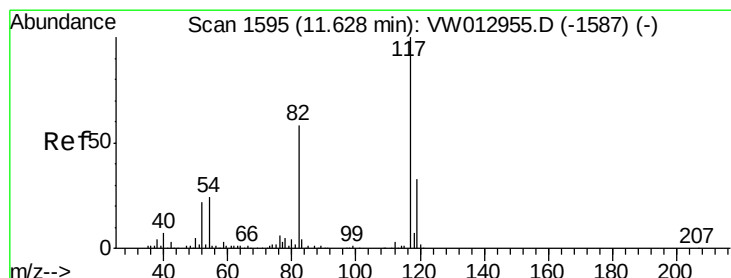
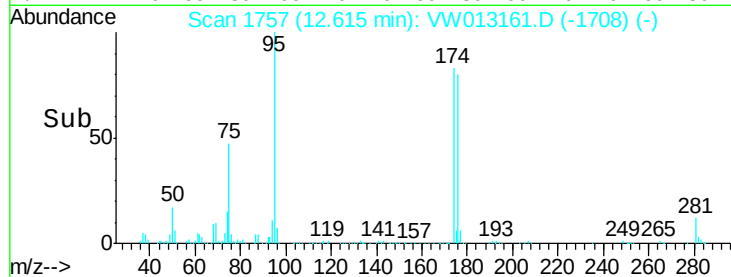
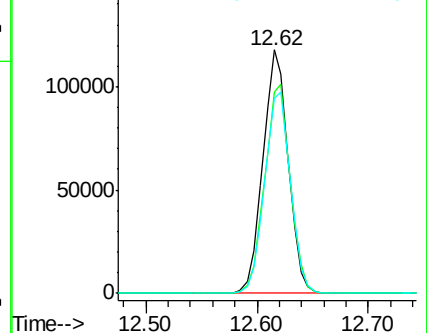
176 84.8 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW013161.D

Acq: 19 Sep 2019 15:18

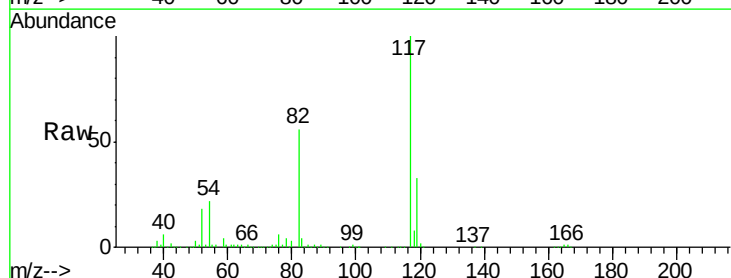
Tgt Ion: 117 Resp: 424878

Ion Ratio Lower Upper

117 100

82 55.4 46.3 69.5

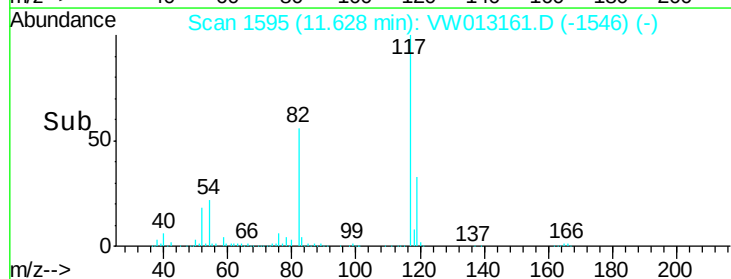
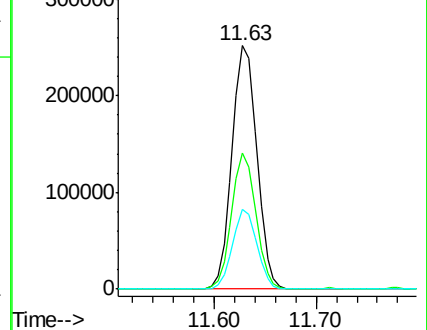
119 32.8 26.2 39.4

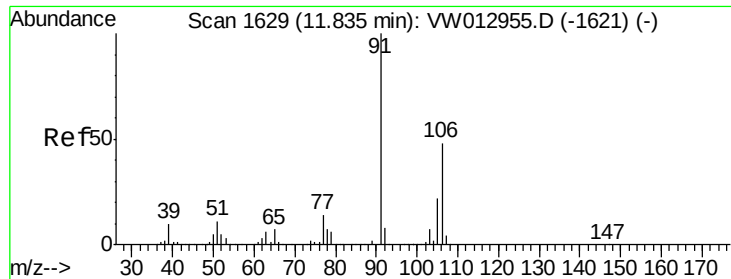


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

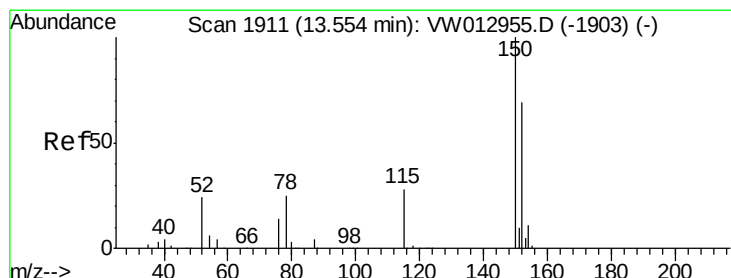
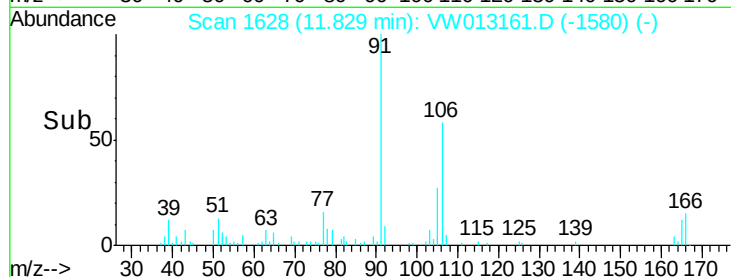
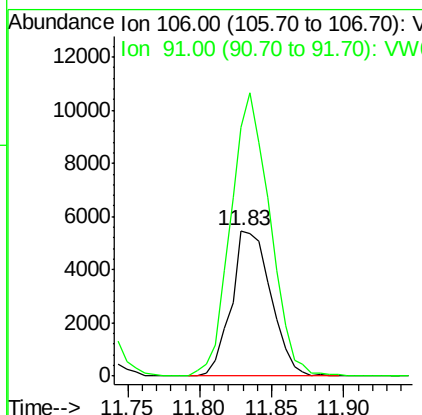
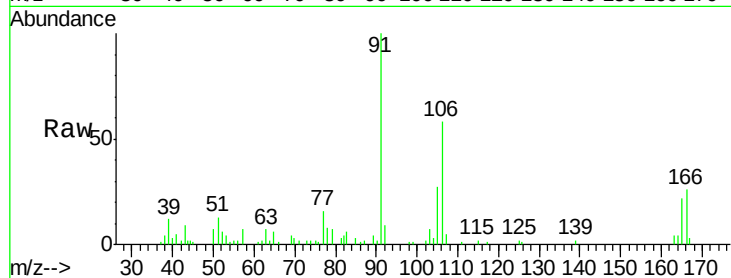




#68  
m/p-Xvlenes  
Concen: 2.038 ug/l  
RT: 11.83 min Scan# 1628  
Delta R.T. -0.01 min  
Lab File: VW013161.D  
Acq: 19 Sep 2019 15:18

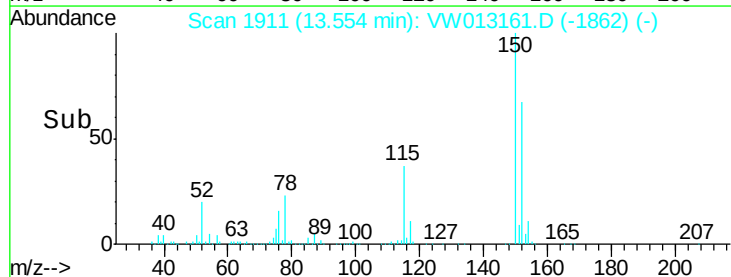
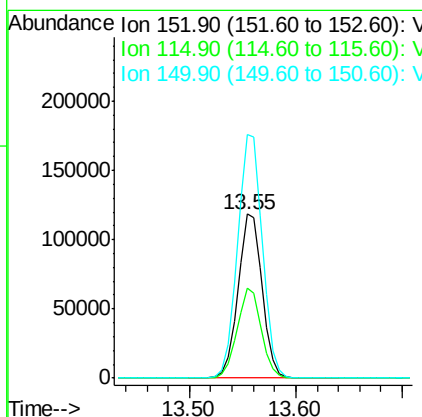
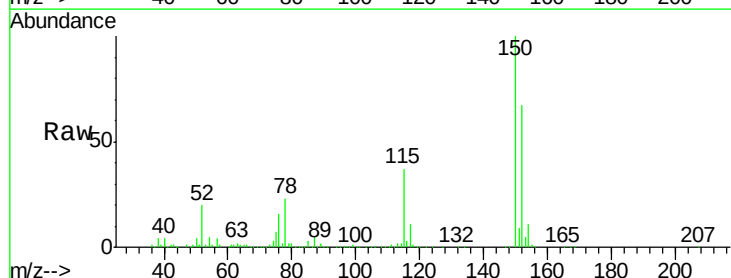
Instrument :  
MSVOA\_W  
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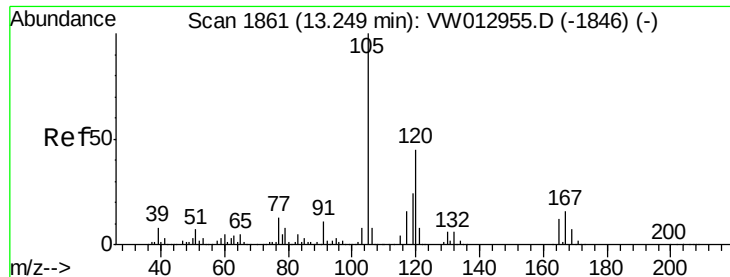
Tot Ion:106 Resp: 10408  
Ion Ratio Lower Upper  
106 100  
91 194.5 165.8 248.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.55 min Scan# 1911  
Delta R.T. -0.00 min  
Lab File: VW013161.D  
Acq: 19 Sep 2019 15:18

Tgt Ion:152 Resp: 188513  
Ion Ratio Lower Upper  
152 100  
115 54.5 28.8 86.4  
150 152.4 0.0 340.2





#84

1,2,4-Trimethylbenzene

Concen: 1.452 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW013161.D

Acq: 19 Sep 2019 15:18

Instrument :

MSVOA\_W

ClientSampleId :

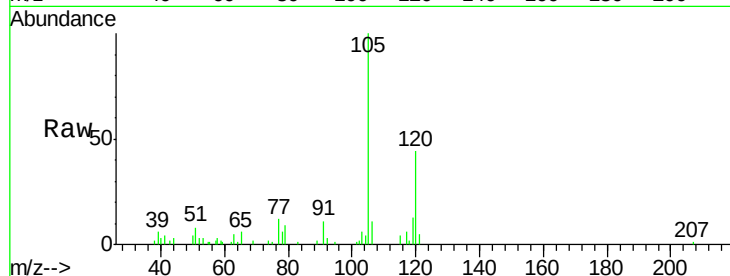
CL-02-091819

Tot Ion:105 Resp: 15168

Ion Ratio Lower Upper

105 100

120 43.1 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.25

10000

8000

6000

4000

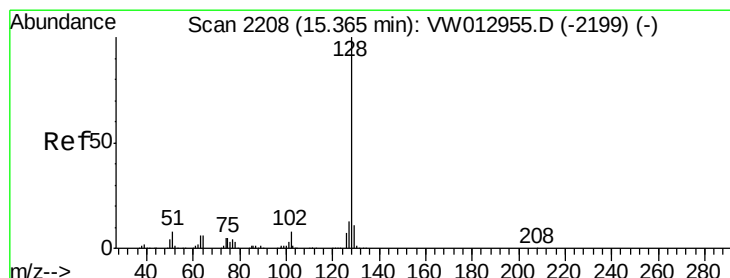
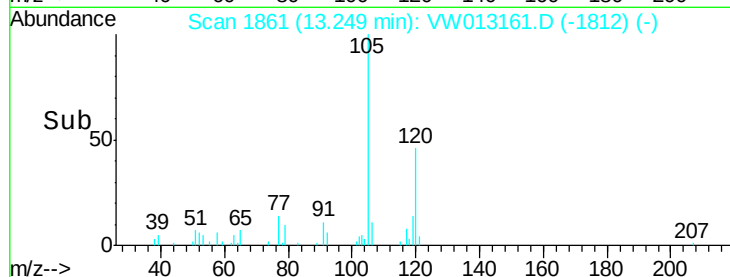
2000

0

Time-->

13.20

13.30



#95

Naphthalene

Concen: 17.303 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013161.D

Acq: 19 Sep 2019 15:18

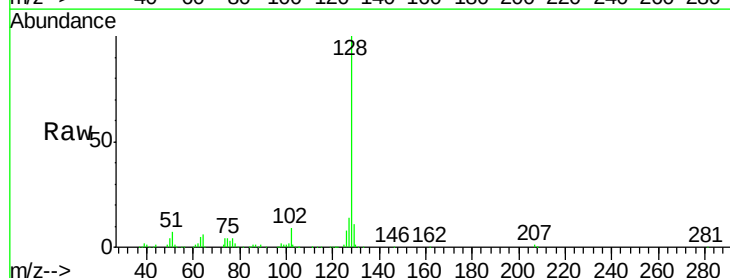
Tgt Ion:128 Resp: 103321

Ion Ratio Lower Upper

128 100

127 13.7 11.0 16.6

129 11.0 8.6 12.8



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

15.36

80000

60000

40000

20000

0

Time-->

15.30

15.40

