

Data File : VL034456.D  
Acq On : 3 Dec 2019 12:14  
Operator : SY/AP  
Sample : K6068-04DL2 100X  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-4DL2

Quant Time: Dec 03 12:45:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL111919AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Nov 19 14:15:35 2019  
QLast Update : Tue Nov 19 14:15:35 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1048003  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.21  | 114  | 2107638  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.15 | 117  | 2047075  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.48  | 95    | 1752486  | 10.18    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.80% |

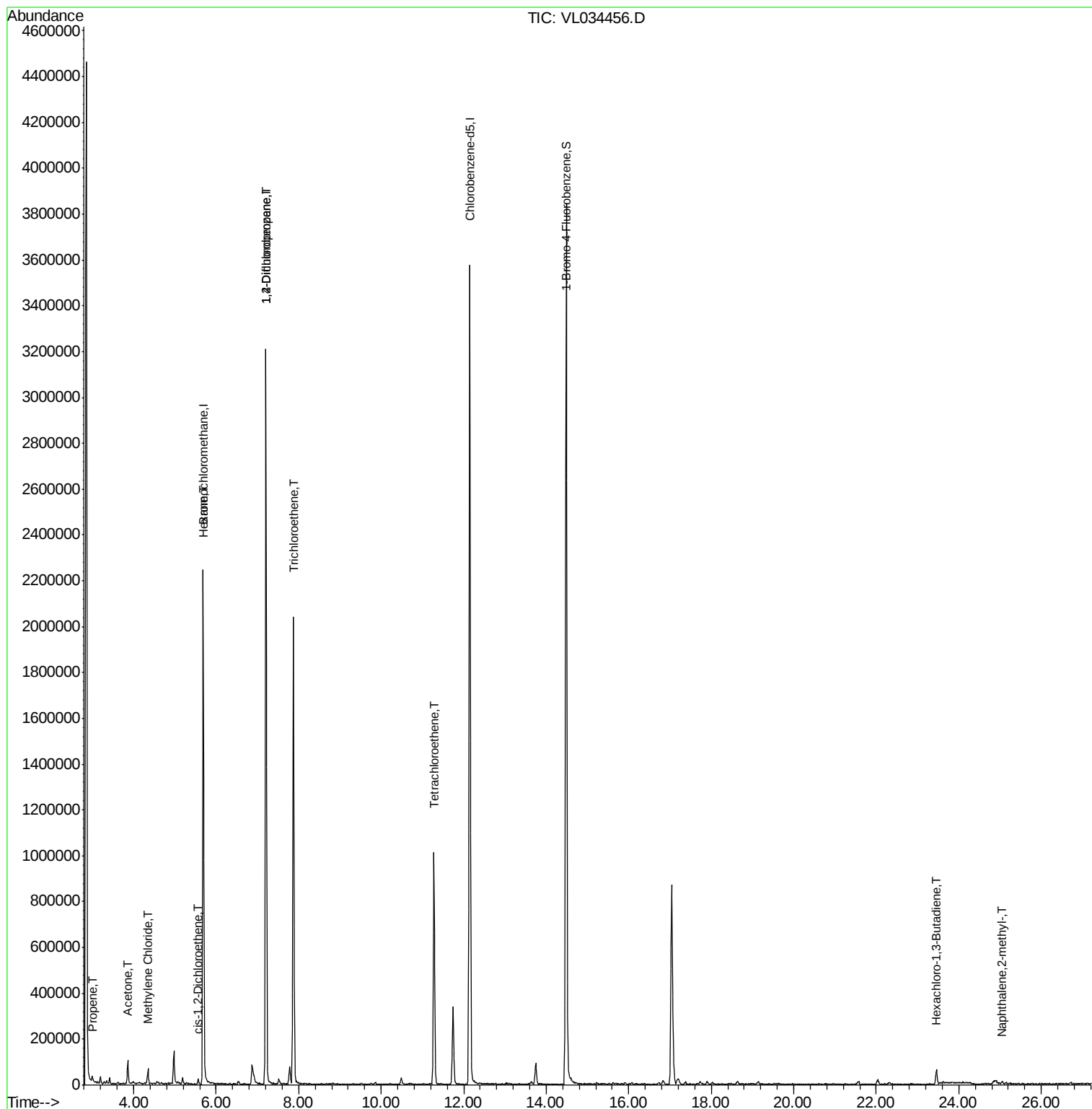
| Target Compounds             | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|------------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene                   | 3.00  | 41   | 5427     | 0.093 | ppbv   | 96     |
| 15) Acetone                  | 3.85  | 43   | 102339   | 0.682 | ppbv   | 94     |
| 20) Methylene Chloride       | 4.35  | 84   | 17402    | 0.327 | ppbv # | 90     |
| 26) Hexane                   | 5.70  | 57   | 6351     | 0.055 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene   | 5.57  | 61   | 13016    | 0.109 | ppbv   | 87     |
| 38) Trichloroethene          | 7.88  | 130  | 588230   | 6.803 | ppbv   | 99     |
| 39) 1,2-Dichloropropane      | 7.21  | 63   | 622599   | 7.670 | ppbv # | 23     |
| 52) Tetrachloroethene        | 11.28 | 164  | 163836   | 1.797 | ppbv   | 93     |
| 78) Hexachloro-1,3-Butadiene | 23.46 | 225  | 5786     | 0.037 | ppbv # | 1      |
| 80) Naphthalene,2-methyl-    | 25.04 | 142  | 5154     | 0.040 | ppbv # | 84     |

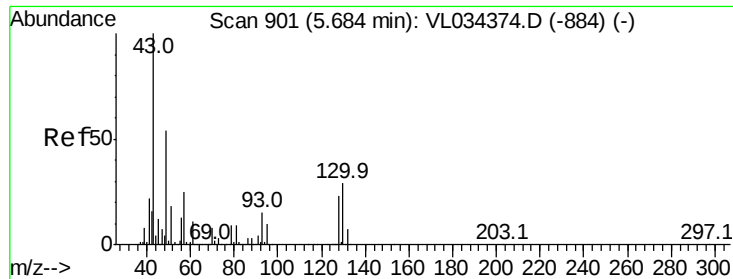
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL111919AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Nov 19 14:15:35 2019  
QLast Update : Tue Nov 19 14:15:35 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Instrument :

MSVOA\_L

ClientSampleId :

SV-4DL2

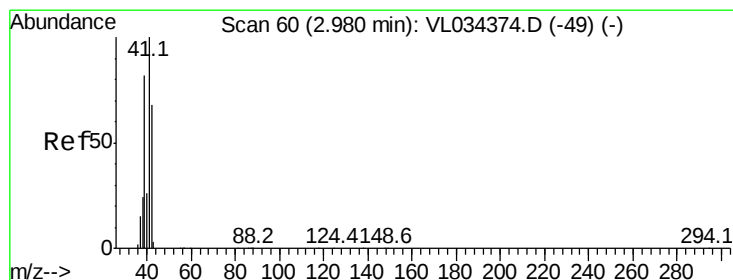
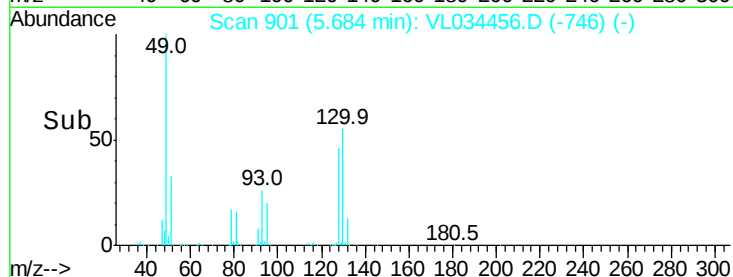
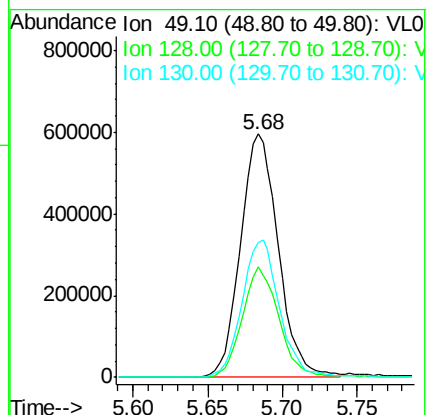
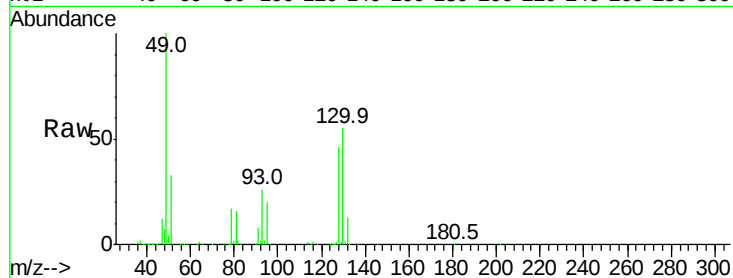
Tgt Ion: 49 Resp: 1048003

Ion Ratio Lower Upper

49 100

128 44.6 21.8 65.3

130 56.6 28.0 84.0



#9

Propene

Concen: 0.093 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL034456.D

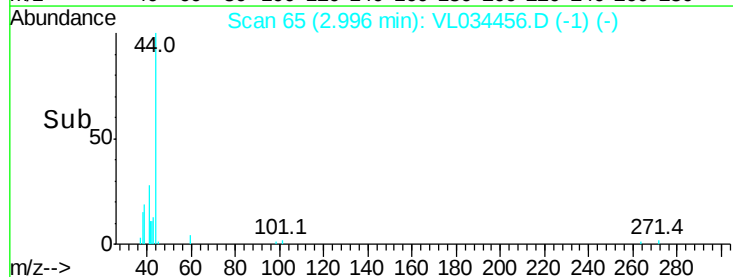
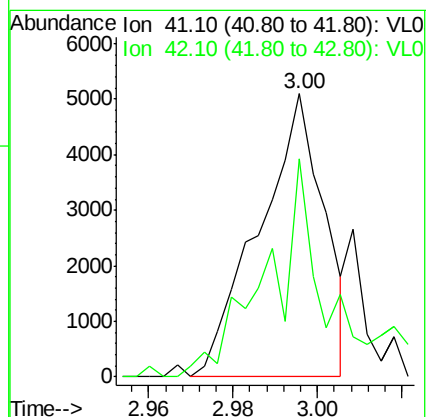
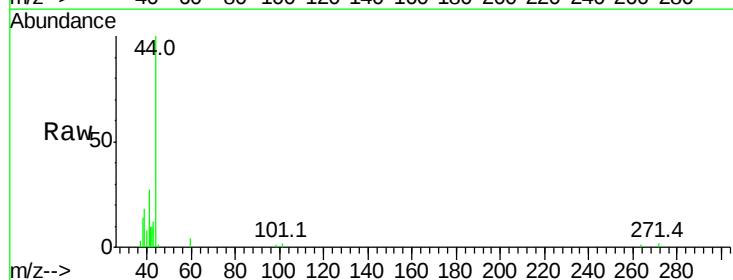
Acq: 3 Dec 2019 12:14

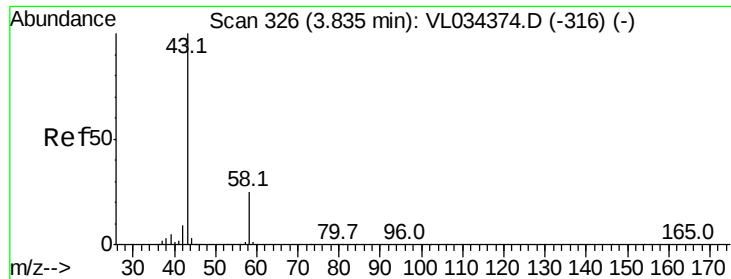
Tgt Ion: 41 Resp: 5427

Ion Ratio Lower Upper

41 100

42 71.5 54.6 82.0





#15

Acetone

Concen: 0.682 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Instrument :

MSVOA\_L

ClientSampleId :

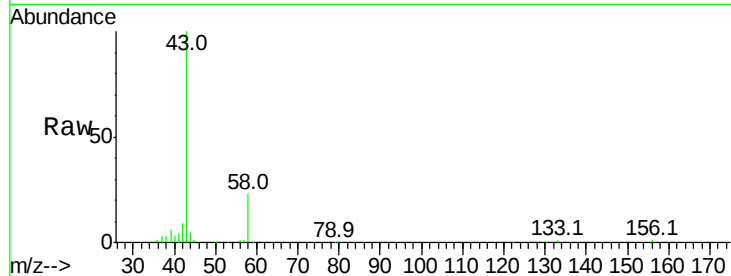
SV-4DL2

Tgt Ion: 43 Resp: 102339

Ion Ratio Lower Upper

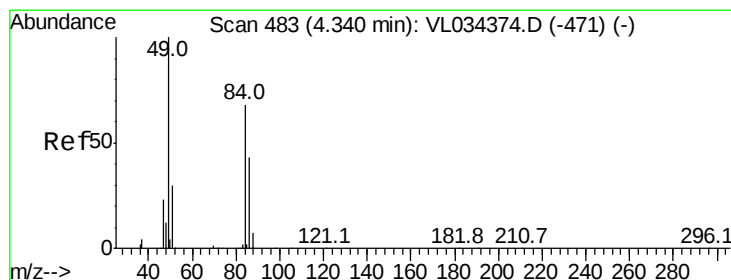
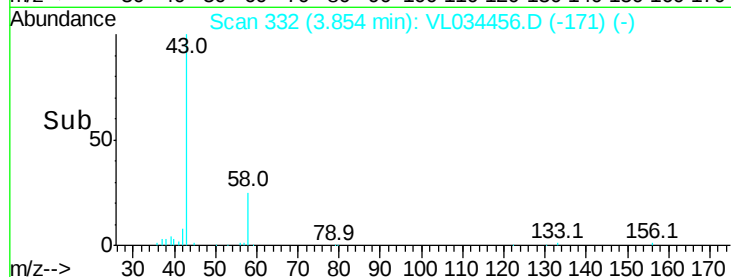
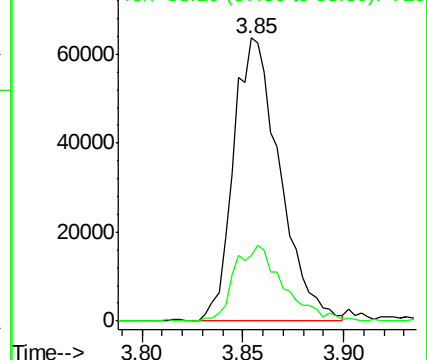
43 100

58 28.6 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.327 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Tgt Ion: 84 Resp: 17402

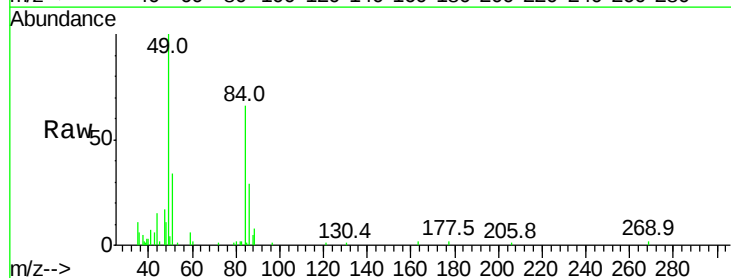
Ion Ratio Lower Upper

84 100

49 149.0 116.8 175.2

51 51.3 35.6 53.4

86 42.5 50.7 76.1#

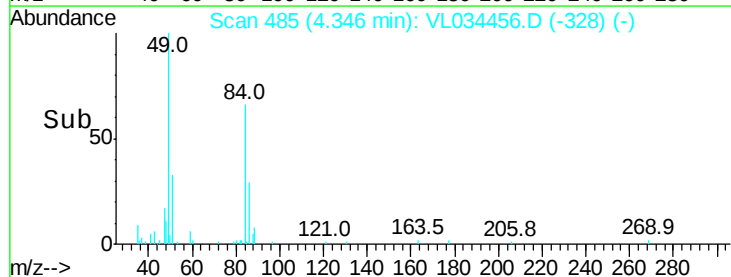
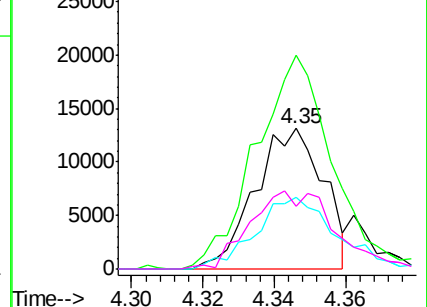


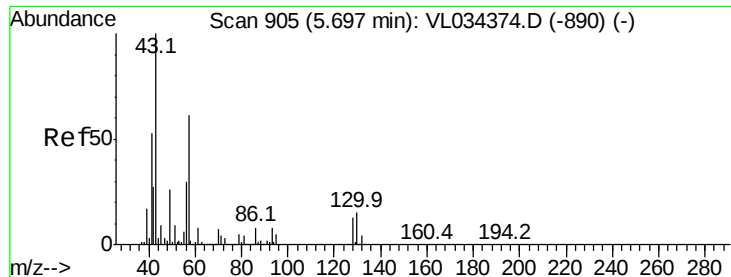
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#26

Hexane

Concen: 0.055 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Instrument :

MSVOA\_L

ClientSampleId :

SV-4DL2

Tgt Ion: 57 Resp: 6351

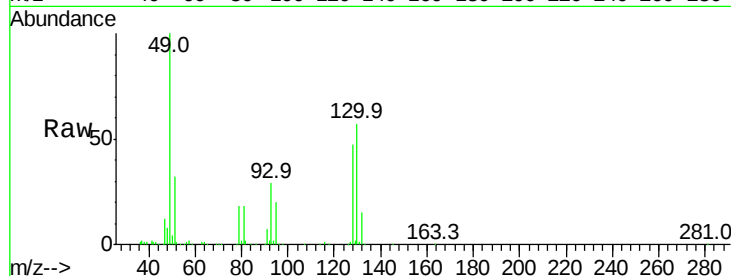
Ion Ratio Lower Upper

57 100

41 0.0 75.0 112.4#

43 0.0 186.6 279.8#

56 0.0 41.5 62.3#

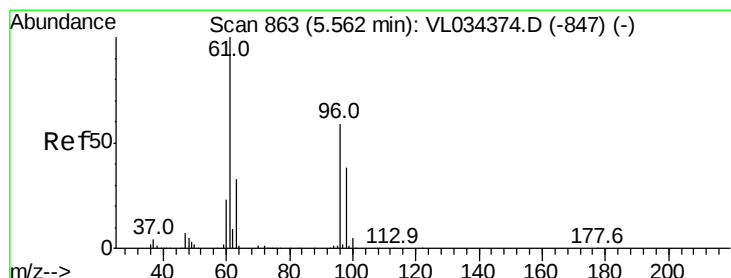
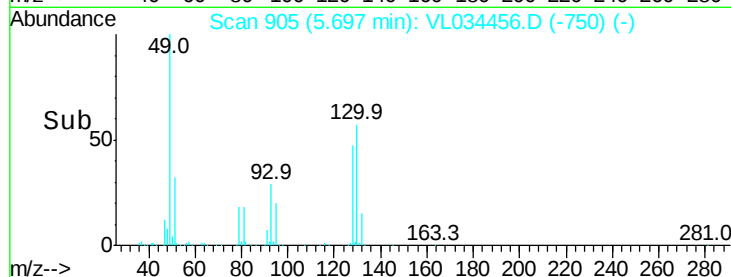
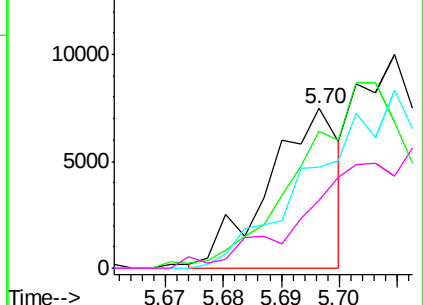


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#31

cis-1,2-Dichloroethene

Concen: 0.109 ppbv

RT: 5.57 min Scan# 865

Delta R.T. 0.01 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

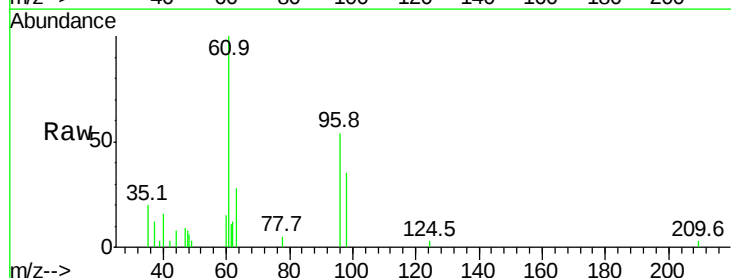
Tgt Ion: 61 Resp: 13016

Ion Ratio Lower Upper

61 100

96 49.0 47.4 71.2

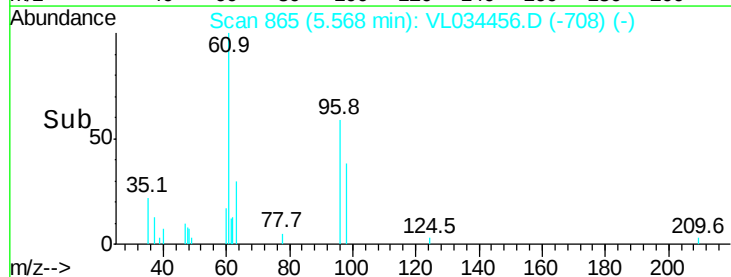
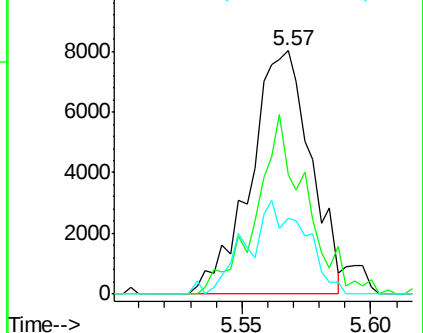
98 31.2 30.6 45.8

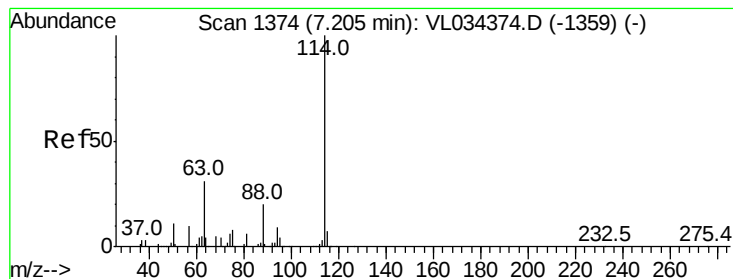


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Instrument :

MSVOA\_L

ClientSampleId :

SV-4DL2

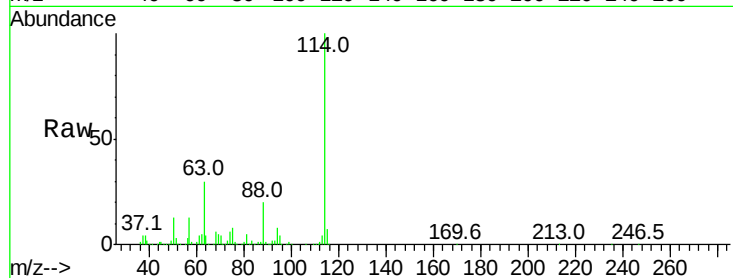
Tgt Ion:114 Resp: 2107638

Ion Ratio Lower Upper

114 100

63 29.6 24.2 36.4

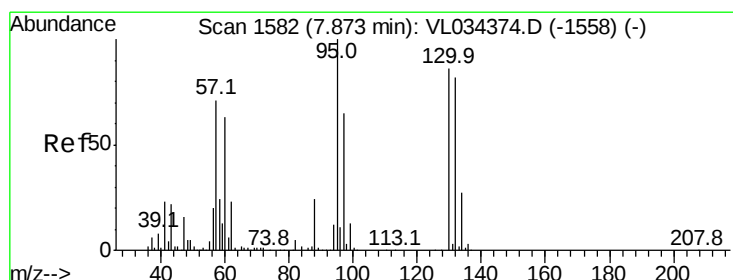
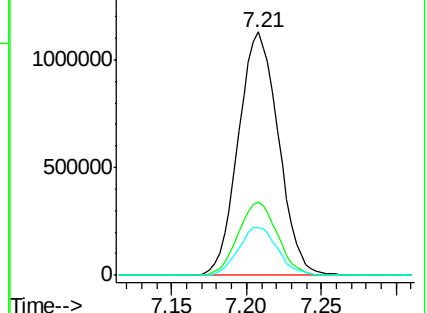
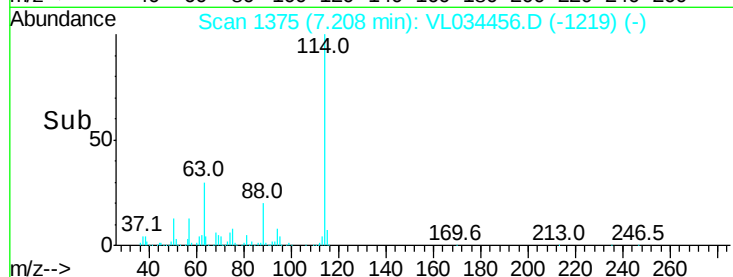
88 19.3 15.9 23.9



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#38

Trichloroethene

Concen: 6.803 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Tgt Ion:130 Resp: 588230

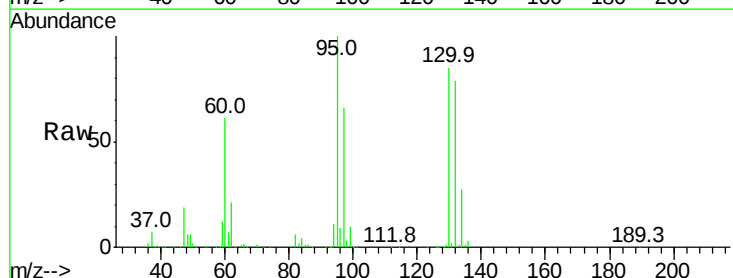
Ion Ratio Lower Upper

130 100

95 116.5 93.4 140.0

132 92.2 76.4 114.6

97 76.7 61.1 91.7

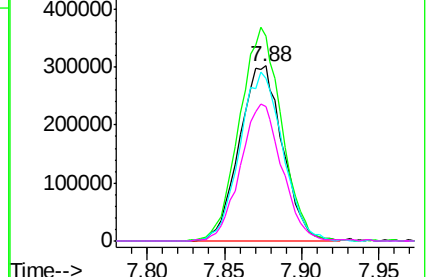
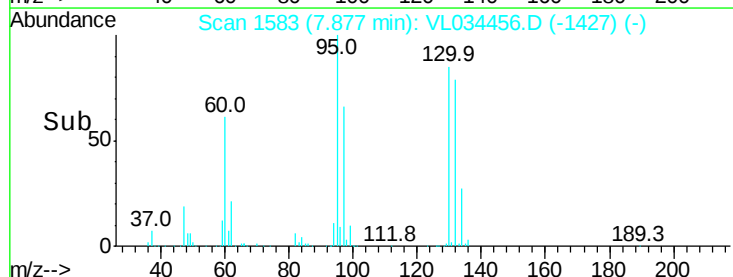


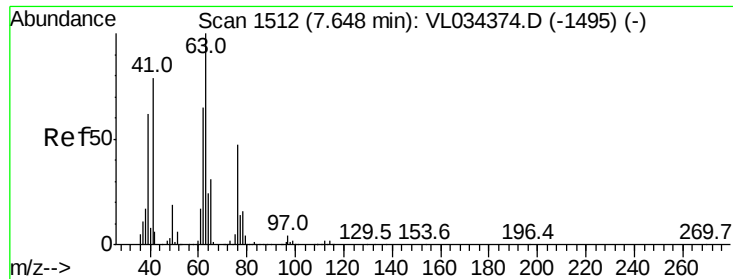
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.670 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.44 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Instrument :

MSVOA\_L

ClientSampleId :

SV-4DL2

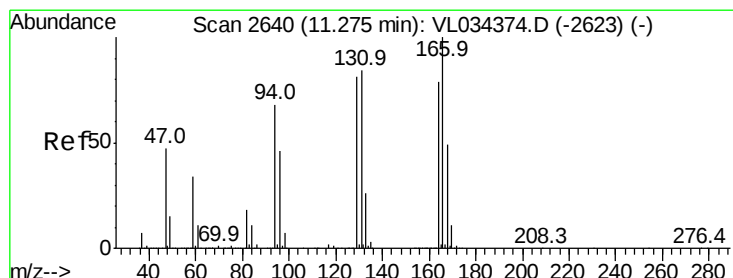
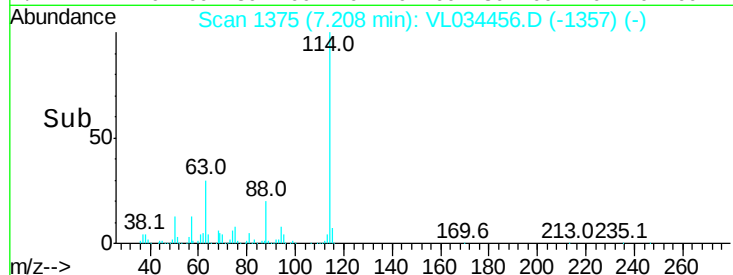
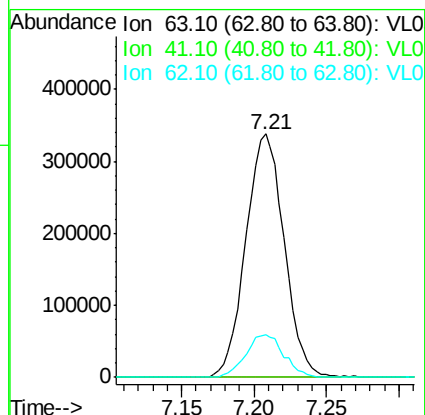
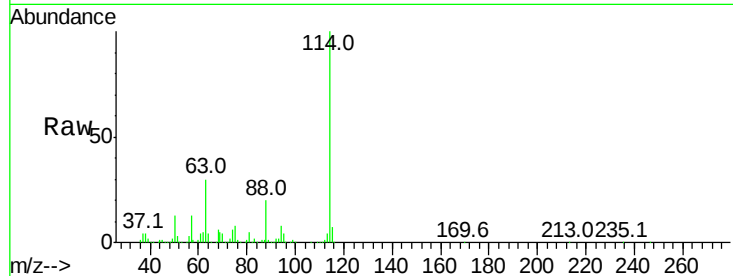
Tgt Ion: 63 Resp: 622599

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

62 17.7 52.3 78.5#



#52

Tetrachloroethene

Concen: 1.797 ppbv

RT: 11.28 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VL034456.D

Acq: 3 Dec 2019 12:14

Tgt Ion: 164 Resp: 163836

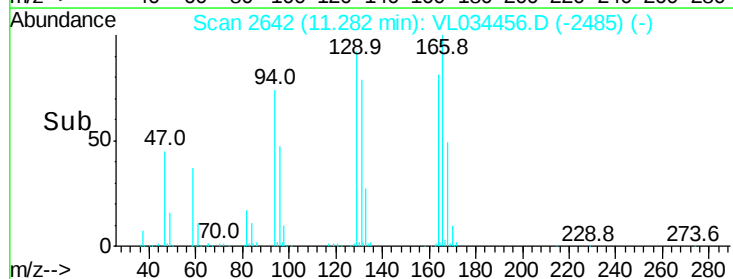
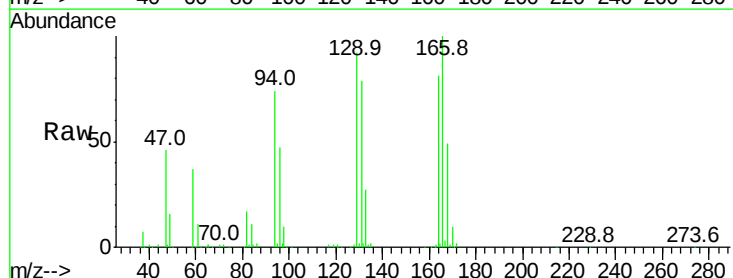
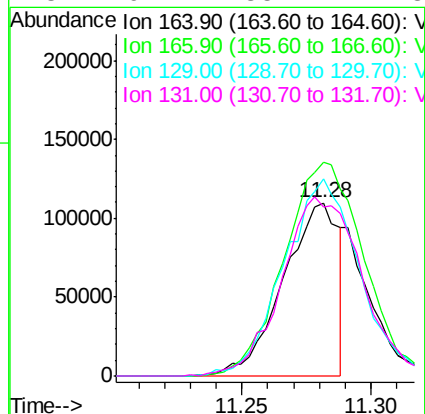
Ion Ratio Lower Upper

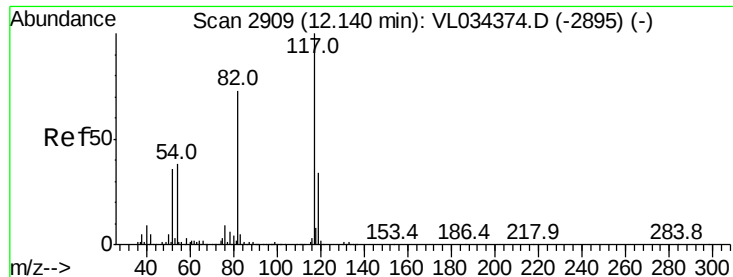
164 100

166 122.9 101.7 152.5

129 113.6 82.6 123.8

131 97.1 85.2 127.8

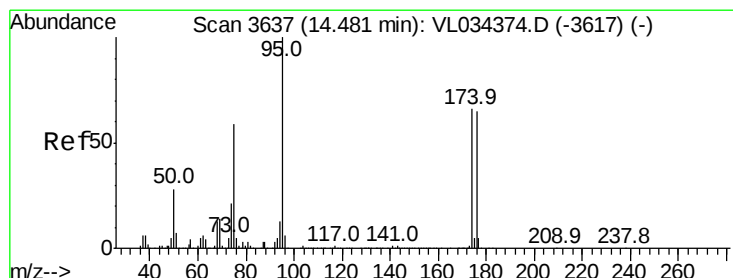
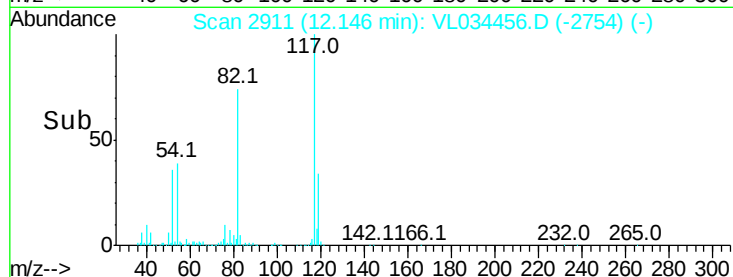
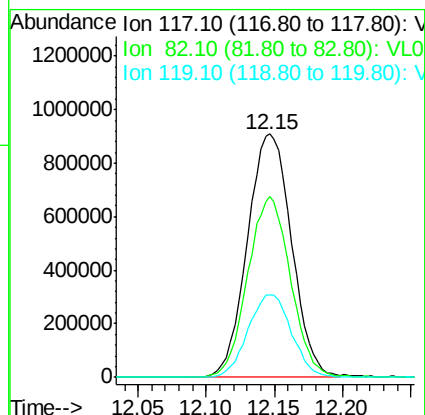
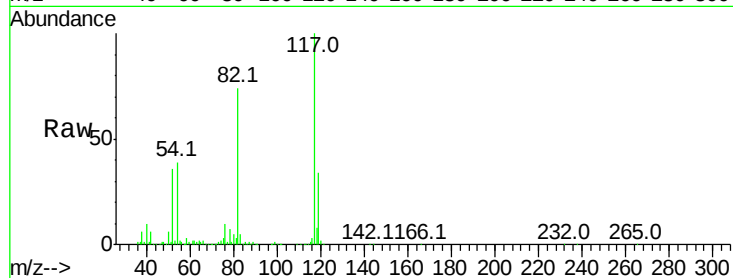




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.15 min Scan# 2911  
Delta R.T. 0.01 min  
Lab File: VL034456.D  
Acq: 3 Dec 2019 12:14

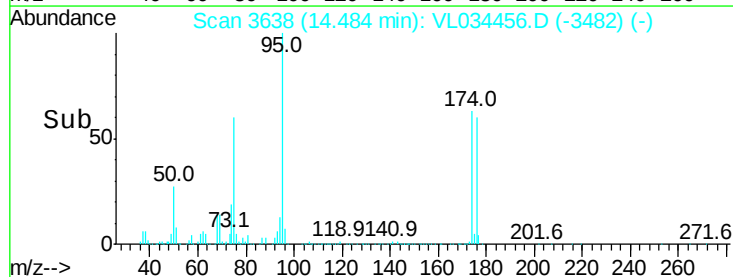
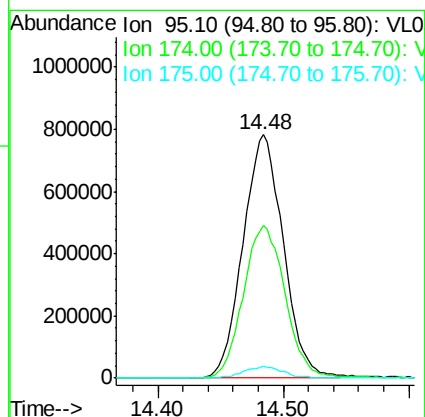
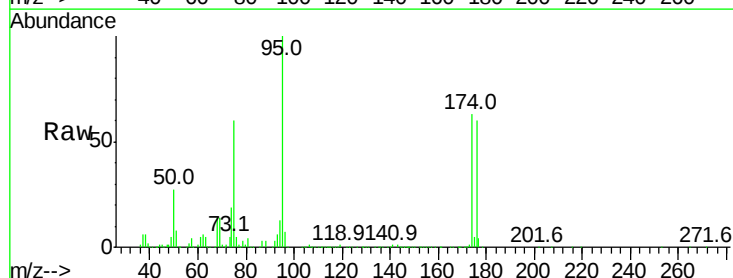
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-4DL2

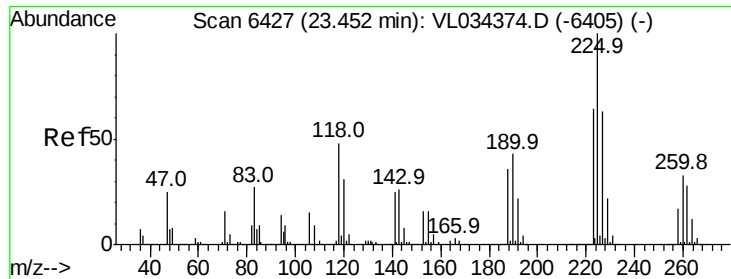
Tgt Ion:117 Resp: 2047075  
Ion Ratio Lower Upper  
117 100  
82 72.3 57.5 86.3  
119 33.6 25.4 38.2



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.176 ppbv  
RT: 14.48 min Scan# 3638  
Delta R.T. 0.00 min  
Lab File: VL034456.D  
Acq: 3 Dec 2019 12:14

Tgt Ion: 95 Resp: 1752486  
Ion Ratio Lower Upper  
95 100  
174 65.4 52.2 78.2  
175 4.6 3.8 5.8

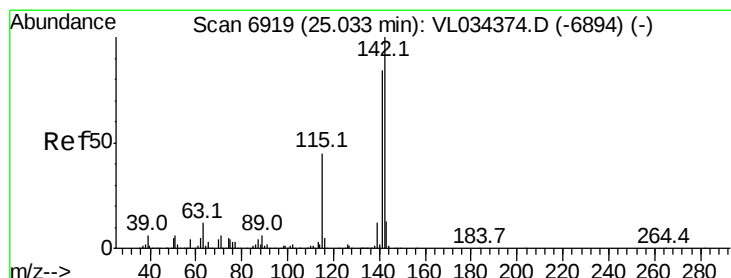
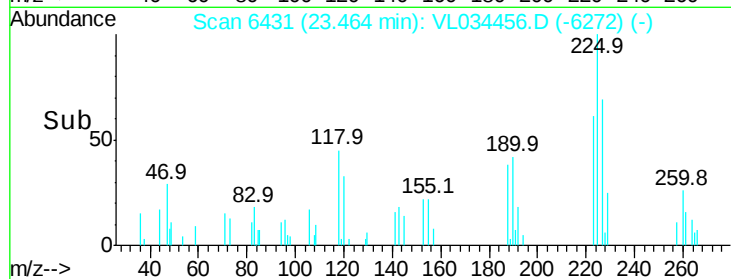
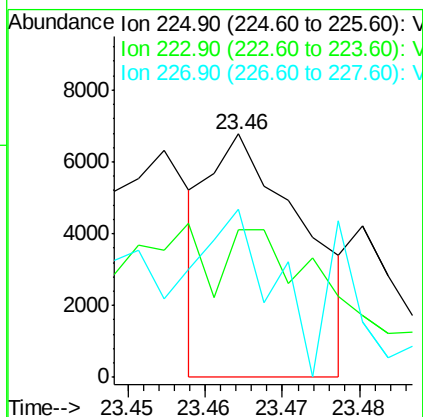
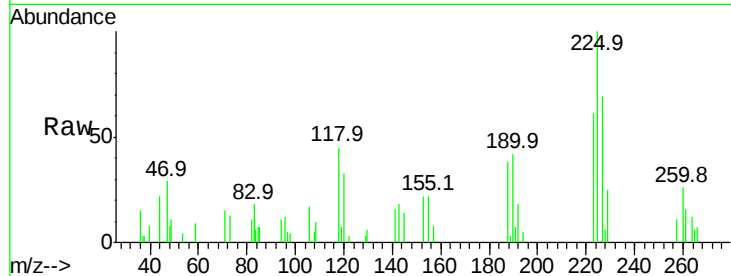




#78  
Hexachloro-1,3-Butadiene  
Concen: 0.037 ppbv  
RT: 23.46 min Scan# 6431  
Delta R.T. 0.01 min  
Lab File: VL034456.D  
Acq: 3 Dec 2019 12:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-4DL2

Tgt Ion:225 Resp: 5786  
Ion Ratio Lower Upper  
225 100  
223 0.0 50.2 75.2#  
227 162.5 51.5 77.3#



#80  
Naphthalene, 2-methyl-  
Concen: 0.040 ppbv  
RT: 25.04 min Scan# 6921  
Delta R.T. 0.01 min  
Lab File: VL034456.D  
Acq: 3 Dec 2019 12:14

Tgt Ion:142 Resp: 5154  
Ion Ratio Lower Upper  
142 100  
141 105.0 67.1 100.7#  
115 47.7 36.6 54.8

