

Data File : VL034720.D  
Acq On : 27 Feb 2020 22:34  
Operator : SY/AP  
Sample : L1661-01  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1-MAIN-ELECT-RM

Quant Time: Feb 28 01:11:19 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL022620AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 26 06:58:15 2020  
QLast Update : Wed Feb 26 06:58:15 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1104205  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2230154  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2307292  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.46  | 95    | 1929513  | 10.20    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.00% |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.02  | 85   | 131742   | 0.756   | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 2.93  | 51   | 5429352  | 45.562  | ppbv # | 59     |
| 4) Chloromethane               | 3.28  | 50   | 22731    | 0.341   | ppbv # | 80     |
| 5) Vinyl Chloride              | 3.22  | 62   | 1925     | 0.029   | ppbv # | 71     |
| 7) Chloroethane                | 3.52  | 64   | 1893     | 0.078   | ppbv # | 79     |
| 9) Propene                     | 3.17  | 41   | 120672   | 2.423   | ppbv   | 86     |
| 10) Heptane                    | 8.14  | 43   | 44101    | 0.344   | ppbv # | 50     |
| 11) Trichlorofluoromethane     | 3.93  | 101  | 23758    | 0.156   | ppbv   | 89     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47  | 101  | 5239     | 0.049   | ppbv # | 51     |
| 13) Ethanol                    | 3.60  | 45   | 4619643  | 293.572 | ppbv   | 100    |
| 15) Acetone                    | 3.82  | 43   | 3042628  | 24.181  | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.28  | 39   | 150287   | 2.580   | ppbv # | 14     |
| 17) tert-Butyl alcohol         | 4.30  | 59   | 500705   | 5.193   | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.97  | 45   | 4939635  | 65.908  | ppbv # | 98     |
| 20) Methylene Chloride         | 4.33  | 84   | 181237   | 3.873   | ppbv   | 95     |
| 21) Allyl Chloride             | 4.31  | 41   | 99642    | 1.197   | ppbv # | 20     |
| 22) trans-1,2-Dichloroethene   | 4.87  | 96   | 5199     | 0.110   | ppbv   | 91     |
| 23) Vinyl Acetate              | 5.05  | 43   | 104999   | 0.614   | ppbv # | 70     |
| 24) 1,1-Dichloroethane         | 5.00  | 63   | 32143    | 0.235   | ppbv # | 93     |
| 25) Ethyl Acetate              | 5.68  | 43   | 178765   | 0.803   | ppbv # | 92     |
| 26) Hexane                     | 5.68  | 57   | 159820   | 1.557   | ppbv # | 57     |
| 27) Carbon Disulfide           | 4.53  | 76   | 14614    | 0.125   | ppbv # | 41     |
| 29) Chloroform                 | 5.75  | 83   | 86308    | 0.528   | ppbv   | 93     |
| 30) Cyclohexane                | 7.14  | 84   | 14769    | 0.186   | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene     | 5.55  | 61   | 406352   | 4.022   | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane      | 6.52  | 97   | 10070    | 0.066   | ppbv # | 1      |
| 34) 2-Butanone                 | 5.24  | 43   | 387094   | 2.758   | ppbv   | 96     |
| 35) Carbon Tetrachloride       | 7.03  | 117  | 8087     | 0.054   | ppbv # | 74     |
| 36) Benzene                    | 6.90  | 78   | 105496   | 0.548   | ppbv # | 92     |
| 38) Trichloroethene            | 7.85  | 130  | 410016   | 5.523   | ppbv   | 95     |
| 39) 1,2-Dichloropropane        | 7.19  | 63   | 644255   | 8.407   | ppbv # | 23     |
| 41) Tetrahydrofuran            | 6.05  | 42   | 171479   | 2.314   | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane     | 7.88  | 57   | 254879   | 0.757   | ppbv # | 80     |
| 50) 4-Methyl-2-Pentanone       | 8.77  | 43   | 88733    | 0.446   | ppbv   | 99     |
| 51) 2-Hexanone                 | 10.16 | 43   | 3568     | 0.023   | ppbv # | 28     |
| 52) Tetrachloroethene          | 11.26 | 164  | 4353     | 0.062   | ppbv # | 69     |
| 53) Toluene                    | 9.83  | 91   | 895287   | 4.370   | ppbv   | 97     |
| 58) Ethyl Benzene              | 12.75 | 91   | 215233   | 0.771   | ppbv   | 91     |
| 59) m/p-Xylene                 | 13.00 | 91   | 709693   | 2.915   | ppbv   | 99     |
| 60) o-Xylene                   | 13.73 | 91   | 272753   | 1.129   | ppbv   | 99     |
| 61) Styrene                    | 13.57 | 104  | 7561     | 0.049   | ppbv # | 1      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL022720\  
Quantitation Report (Not Reviewed)

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Instrument :  
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ClientSampleId :  
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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 64) n-propylbenzene        | 15.61 | 120  | 6377     | 0.070 | ppbv # | 1        |
| 65) tert-Butylbenzene      | 16.81 | 119  | 22863    | 0.075 | ppbv # | 1        |
| 69) p-Isopropyltoluene     | 17.70 | 119  | 494546   | 1.372 | ppbv   | 94       |
| 70) n-Butylbenzene         | 18.75 | 91   | 708581   | 1.805 | ppbv # | 80       |
| 72) 4-Ethyltoluene         | 15.88 | 105  | 82385    | 0.306 | ppbv # | 92       |
| 73) 1,3,5-Trimethylbenzene | 16.04 | 105  | 46016    | 0.178 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene | 16.81 | 105  | 137088   | 0.480 | ppbv # | 68       |
| 76) 1,4-Dichlorobenzene    | 17.19 | 146  | 6246     | 0.038 | ppbv # | 1        |
| 79) Naphthalene            | 22.27 | 128  | 25843    | 0.103 | ppbv   | 95       |
| 80) Naphthalene,2-methyl-  | 25.03 | 142  | 6080     | 0.078 | ppbv # | 76       |

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

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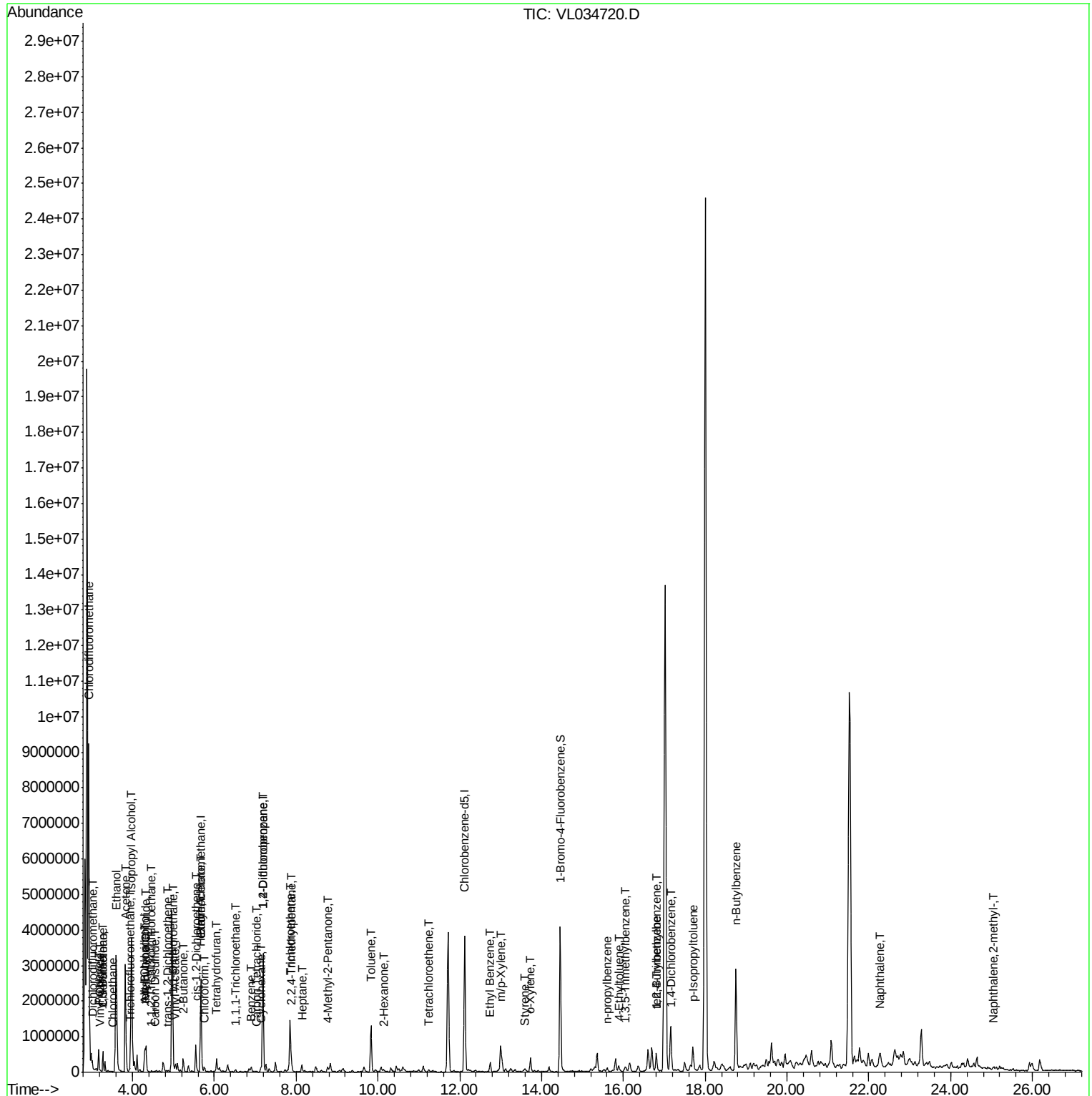
Quant Time: Feb 28 01:11:19 2020

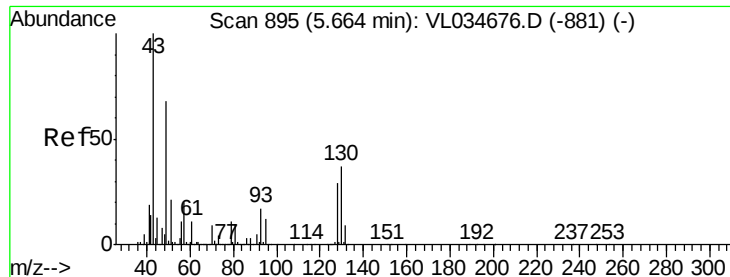
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL022620AIR.M

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QLast Update : Wed Feb 26 06:58:15 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

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Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

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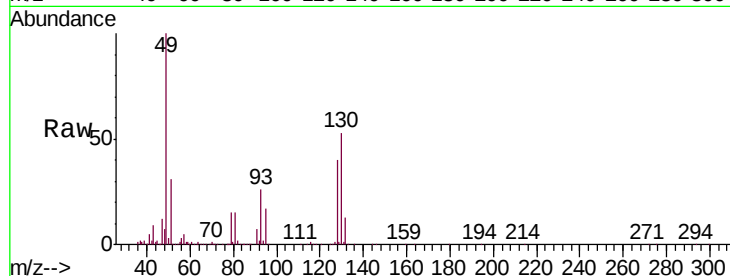
Tgt Ion: 49 Resp: 1104205

Ion Ratio Lower Upper

49 100

128 42.7 21.6 65.0

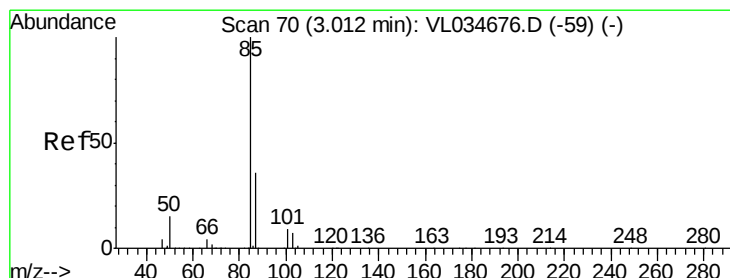
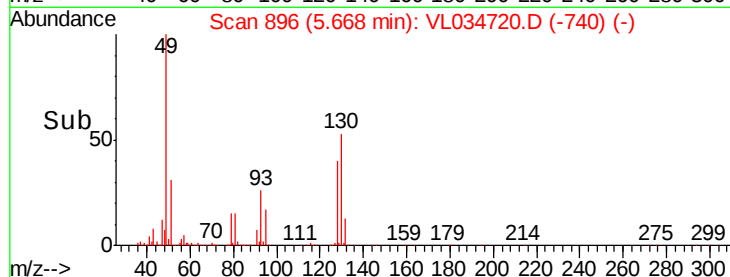
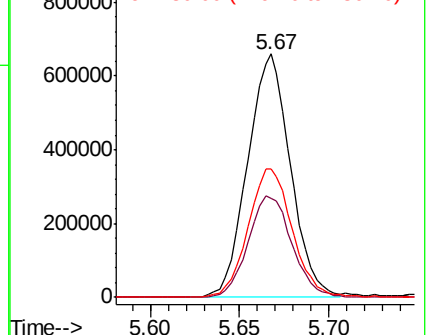
130 55.0 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.756 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034720.D

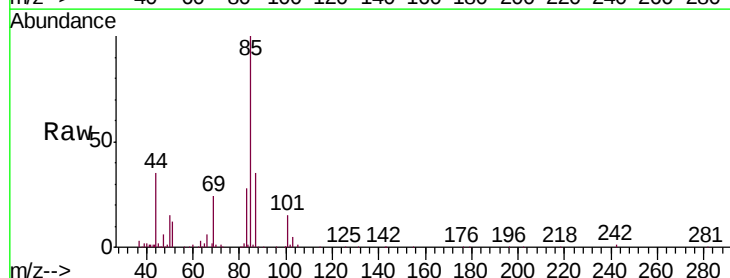
Acq: 27 Feb 2020 22:34

Tgt Ion: 85 Resp: 131742

Ion Ratio Lower Upper

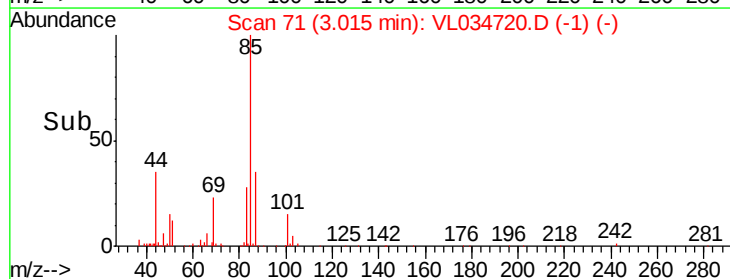
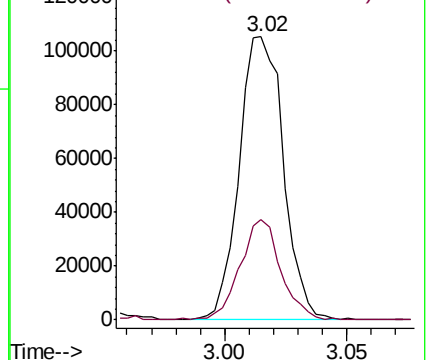
85 100

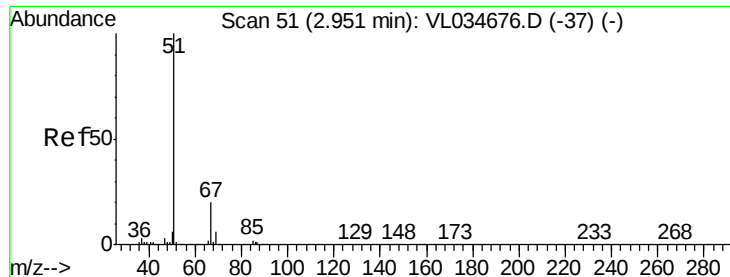
87 35.3 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 45.562 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.02 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

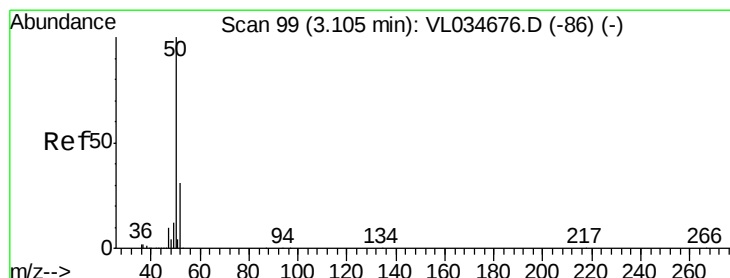
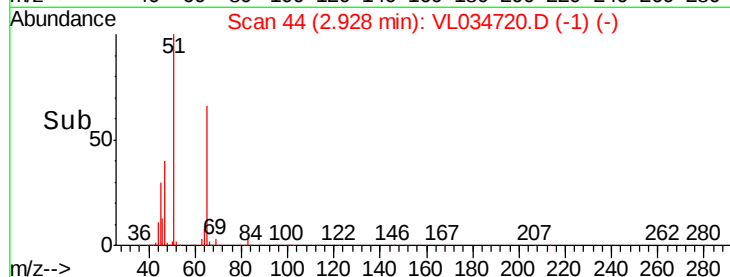
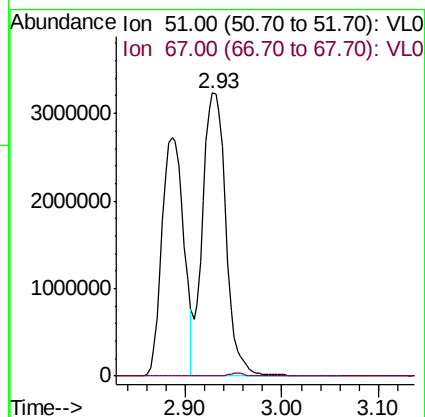
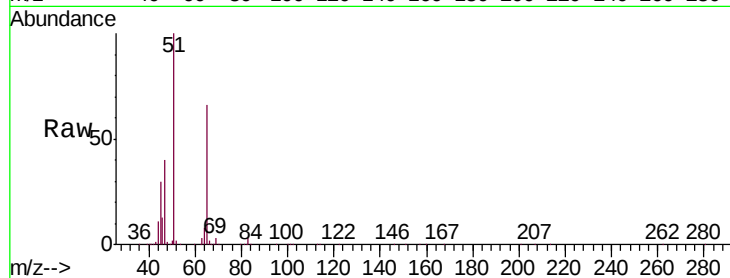
SG-1-MAIN-ELECT-RM

Tgt Ion: 51 Resp: 5429352

Ion Ratio Lower Upper

51 100

67 0.8 15.5 23.3#



#4

Chloromethane

Concen: 0.341 ppbv

RT: 3.28 min Scan# 152

Delta R.T. 0.17 min

Lab File: VL034720.D

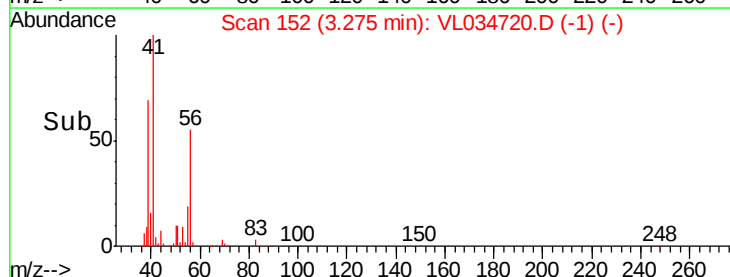
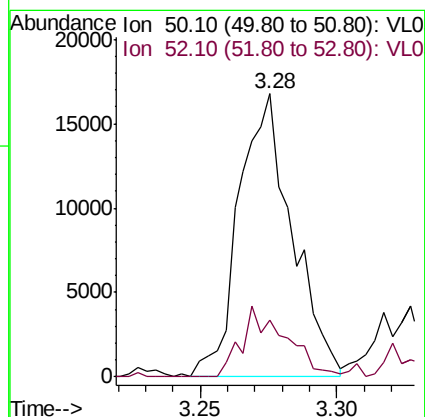
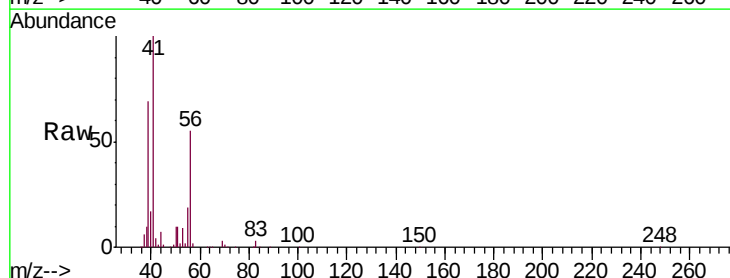
Acq: 27 Feb 2020 22:34

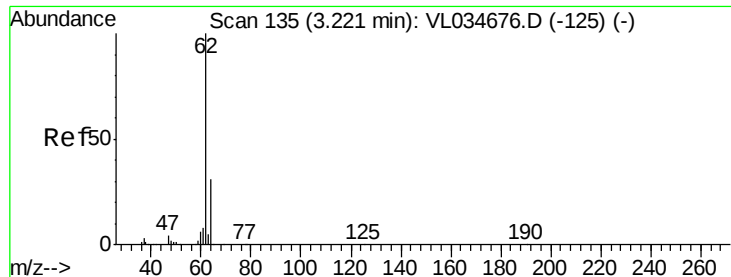
Tgt Ion: 50 Resp: 22731

Ion Ratio Lower Upper

50 100

52 20.2 25.0 37.4#





#5

Vinyl Chloride

Concen: 0.029 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

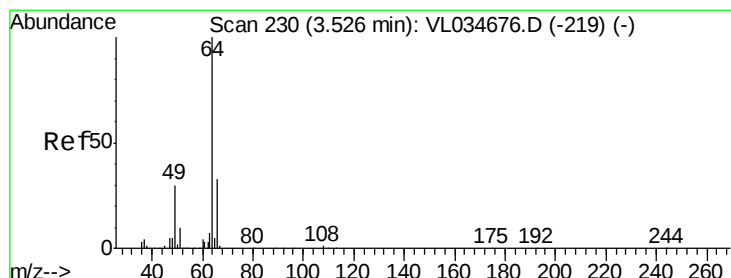
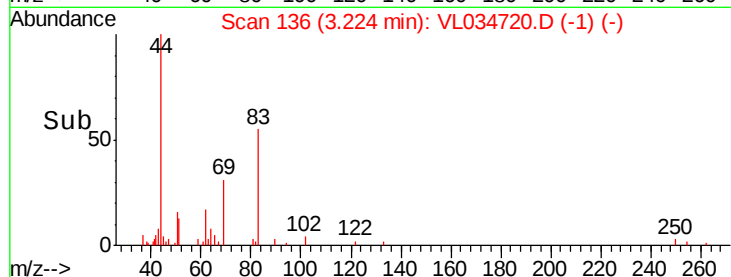
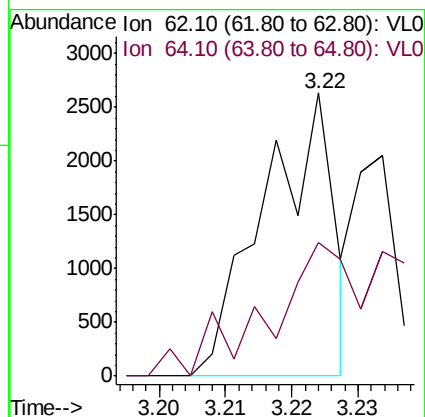
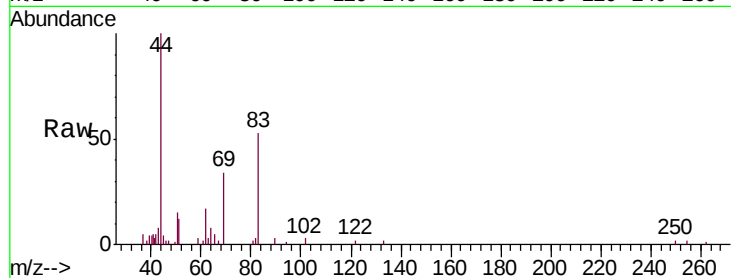
SG-1-MAIN-ELECT-RM

Tgt Ion: 62 Resp: 1925

Ion Ratio Lower Upper

62 100

64 47.0 24.7 37.1#



#7

Chloroethane

Concen: 0.078 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034720.D

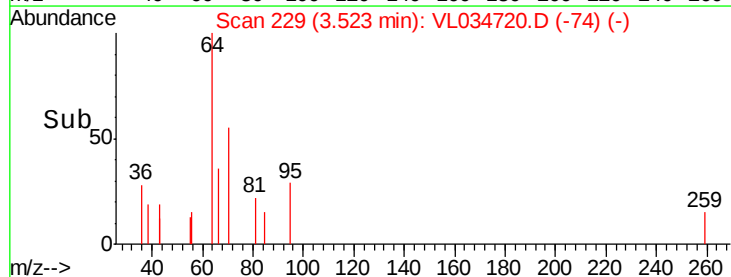
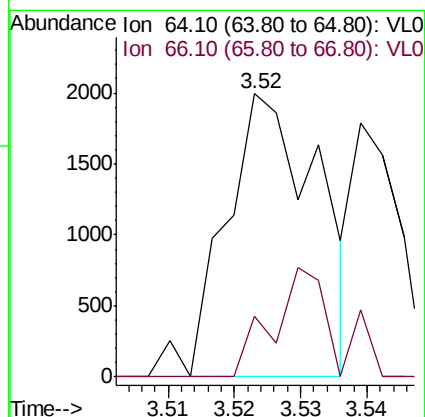
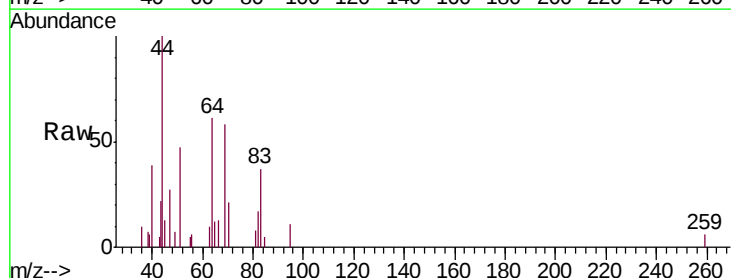
Acq: 27 Feb 2020 22:34

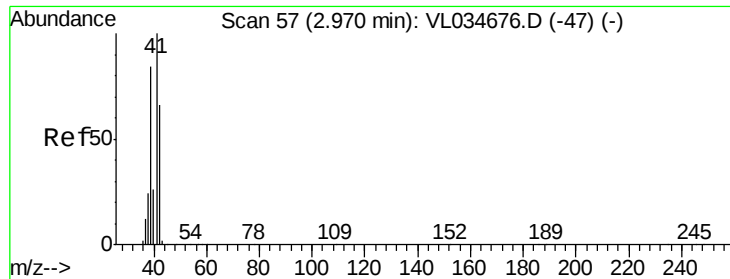
Tgt Ion: 64 Resp: 1893

Ion Ratio Lower Upper

64 100

66 21.5 26.7 40.1#





#9

Propene

Concen: 2.423 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.20 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

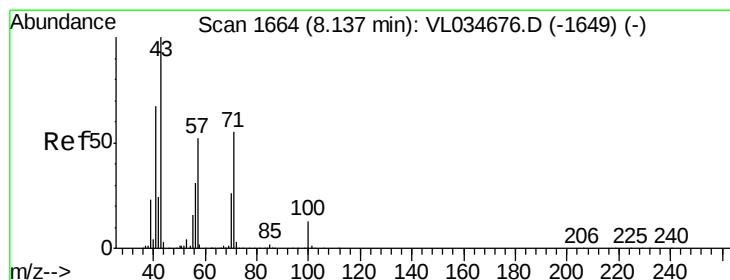
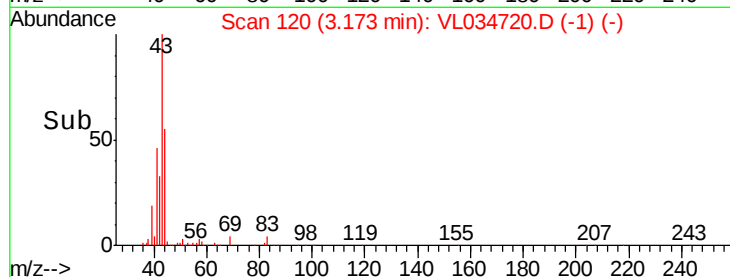
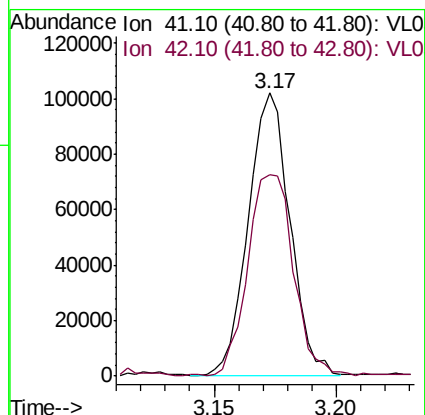
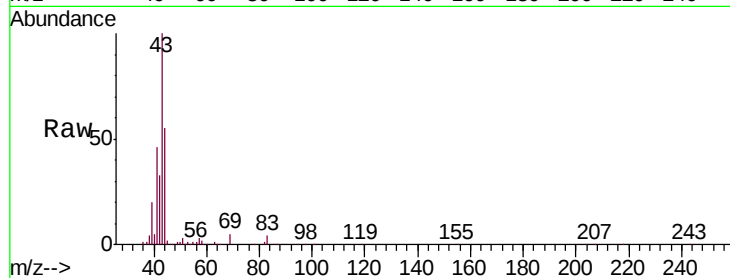
SG-1-MAIN-ELECT-RM

Tgt Ion: 41 Resp: 120672

Ion Ratio Lower Upper

41 100

42 79.6 54.9 82.3



#10

Heptane

Concen: 0.344 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL034720.D

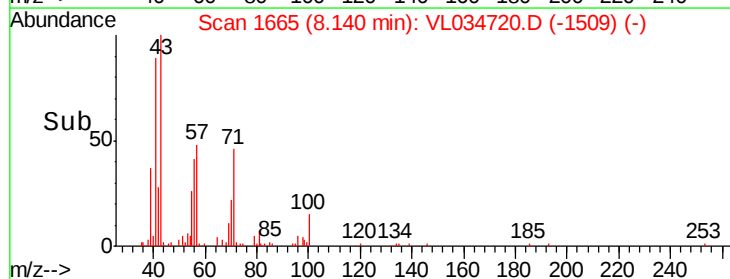
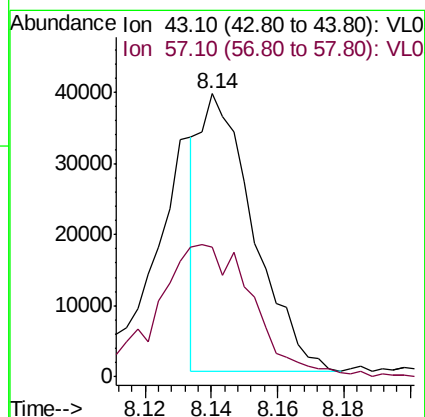
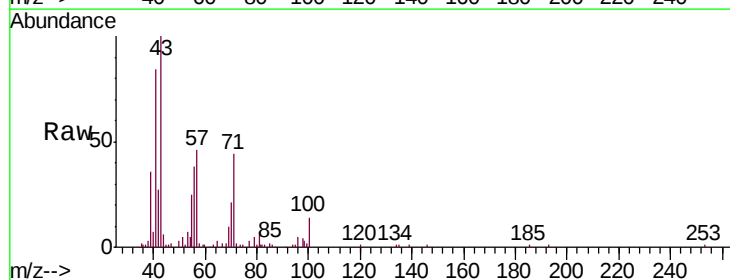
Acq: 27 Feb 2020 22:34

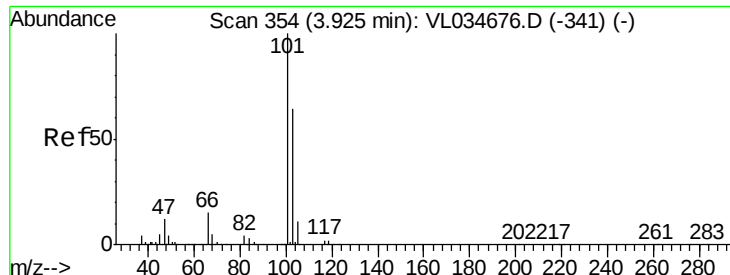
Tgt Ion: 43 Resp: 44101

Ion Ratio Lower Upper

43 100

57 86.2 41.0 61.6#

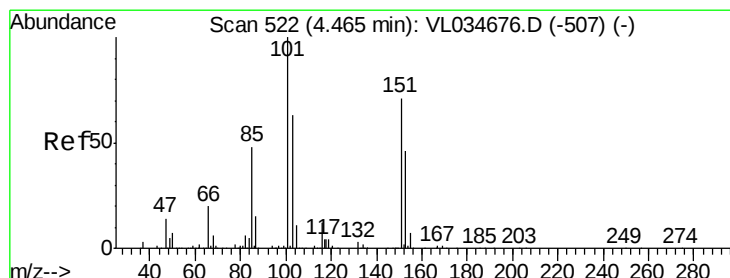
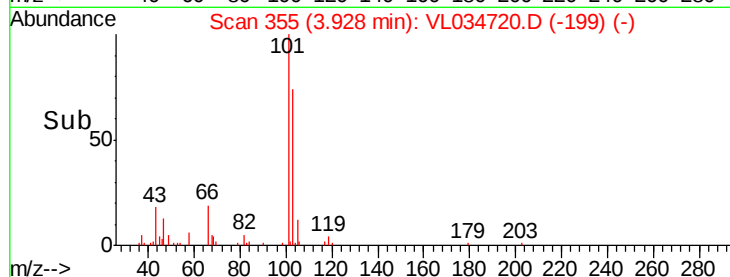
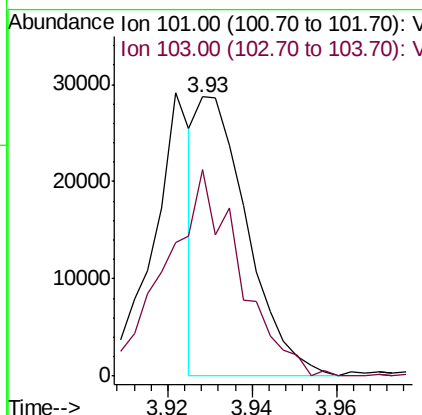
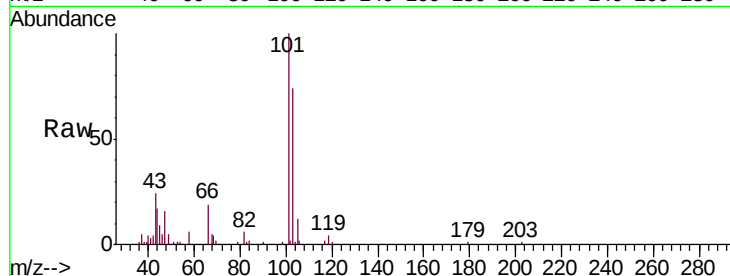




#11  
 Trichlorofluoromethane  
 Concen: 0.156 ppbv  
 RT: 3.93 min Scan# 355  
 Delta R.T. 0.00 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

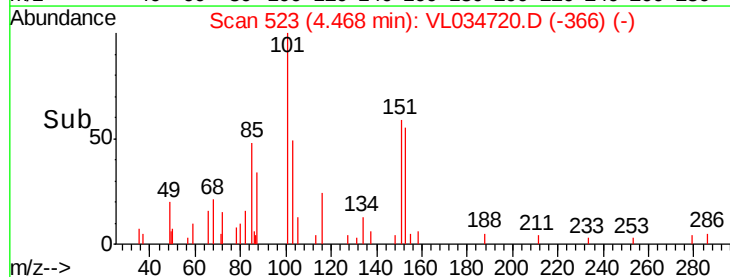
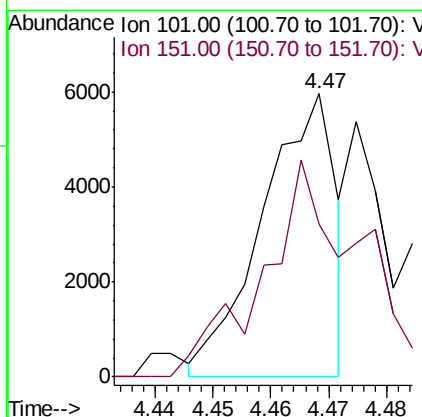
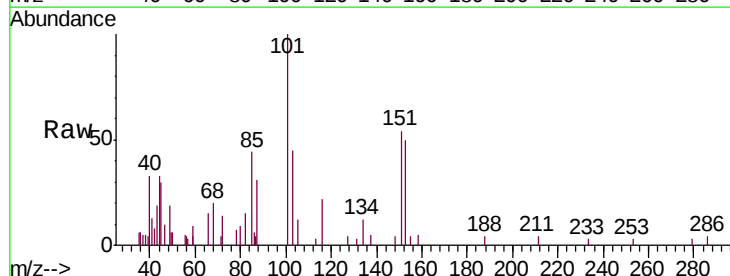
Instrument :  
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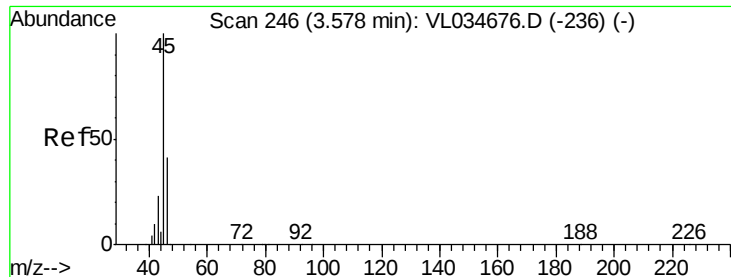
Tgt Ion:101 Resp: 23758  
 Ion Ratio Lower Upper  
 101 100  
 103 72.6 51.2 76.8



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.049 ppbv  
 RT: 4.47 min Scan# 523  
 Delta R.T. 0.00 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

Tgt Ion:101 Resp: 5239  
 Ion Ratio Lower Upper  
 101 100  
 151 109.9 55.8 83.6#





#13

Ethanol

Concen: 293.572 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

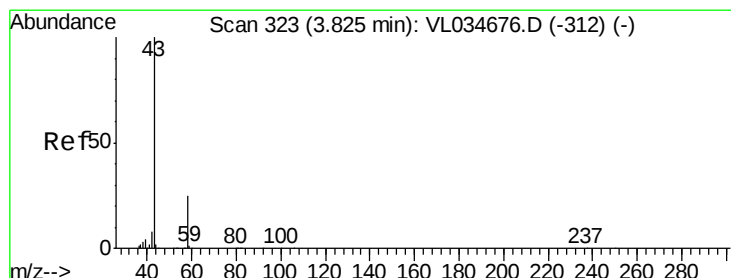
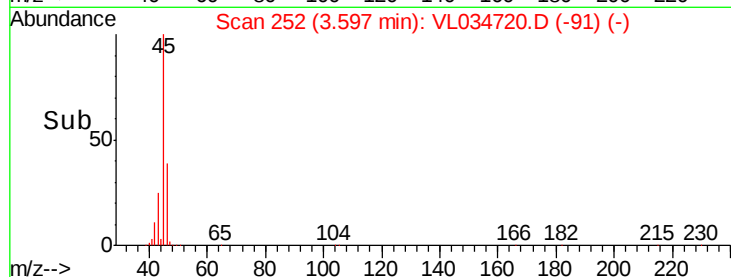
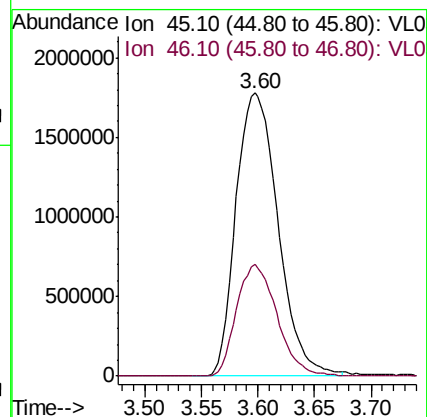
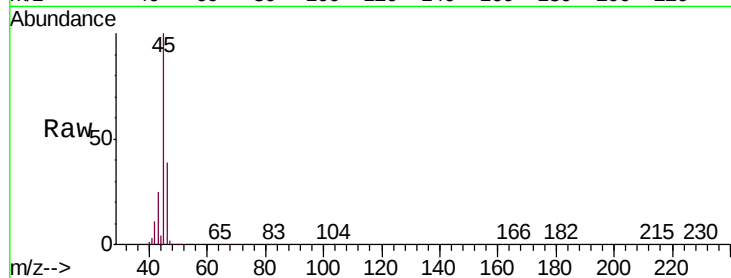
SG-1-MAIN-ELECT-RM

Tgt Ion: 45 Resp: 4619643

Ion Ratio Lower Upper

45 100

46 38.3 15.4 61.4



#15

Acetone

Concen: 24.181 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.00 min

Lab File: VL034720.D

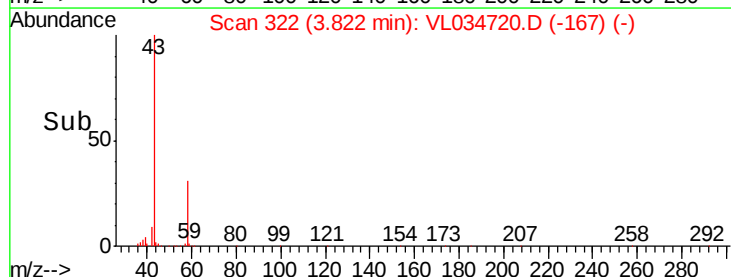
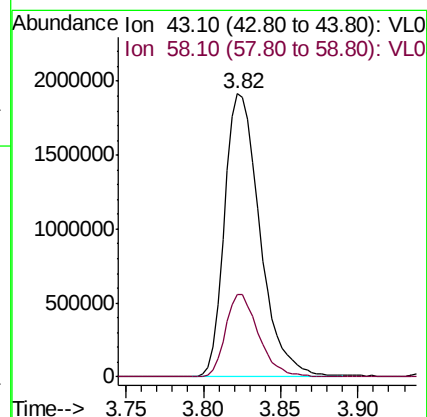
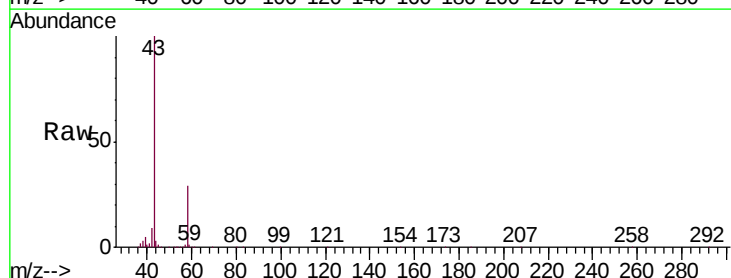
Acq: 27 Feb 2020 22:34

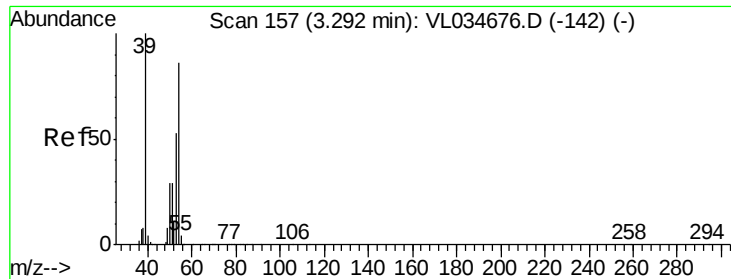
Tgt Ion: 43 Resp: 3042628

Ion Ratio Lower Upper

43 100

58 27.5 21.4 32.0

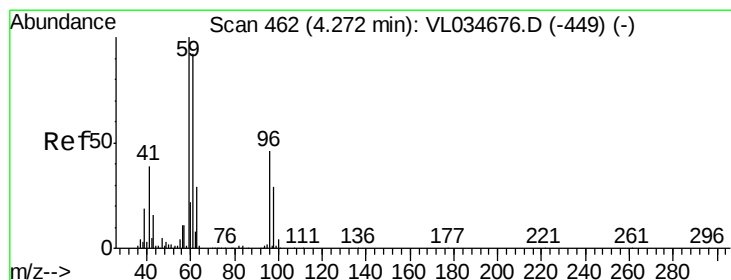
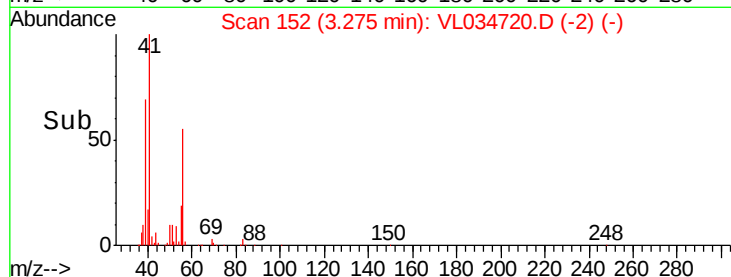
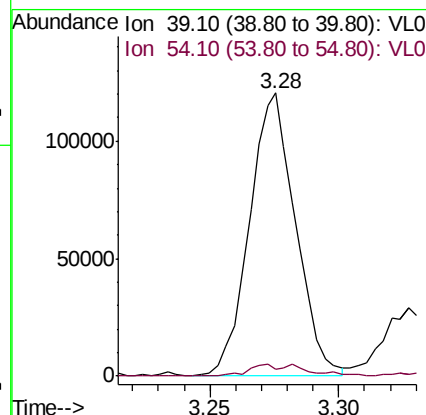
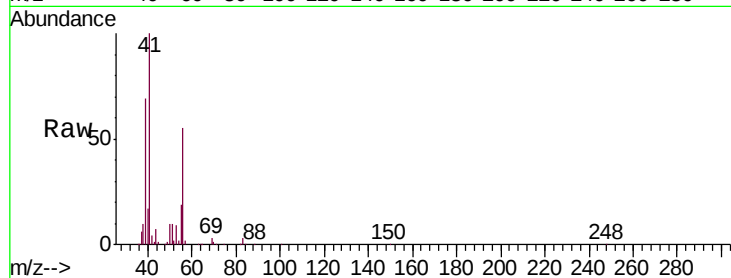




#16  
 1,3-Butadiene  
 Concen: 2.580 ppbv  
 RT: 3.28 min Scan# 152  
 Delta R.T. -0.02 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

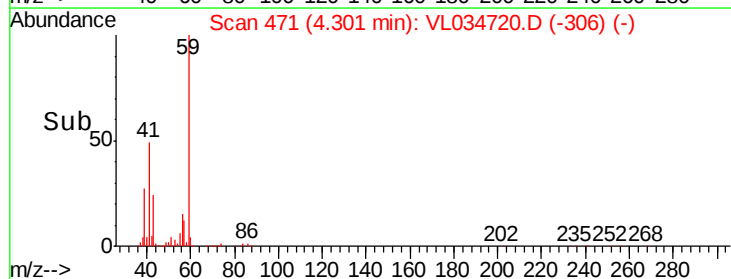
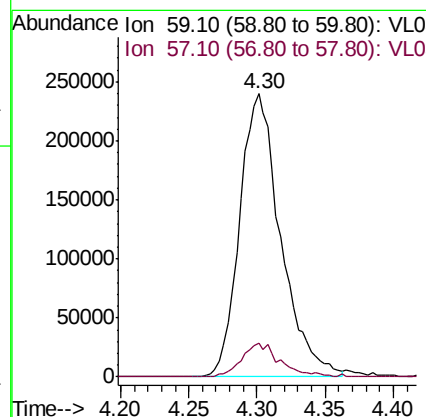
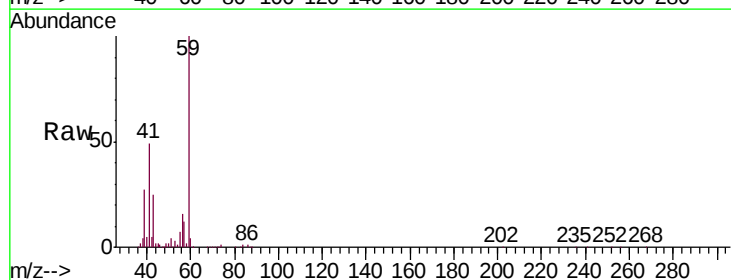
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-1-MAIN-ELECT-RM

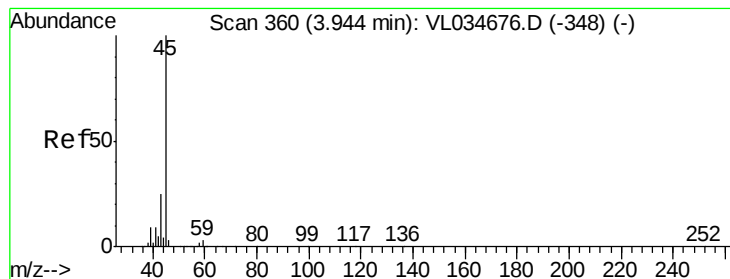
Tgt Ion: 39 Resp: 150287  
 Ion Ratio Lower Upper  
 39 100  
 54 6.0 67.0 100.6#



#17  
 tert-Butyl alcohol  
 Concen: 5.193 ppbv  
 RT: 4.30 min Scan# 471  
 Delta R.T. 0.03 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

Tgt Ion: 59 Resp: 500705  
 Ion Ratio Lower Upper  
 59 100  
 57 11.4 8.8 13.2





#19

Isopropyl Alcohol

Concen: 65.908 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.03 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

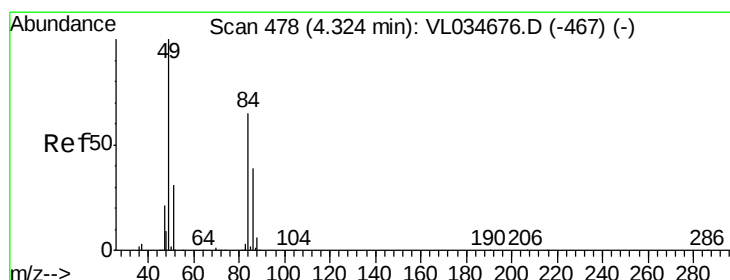
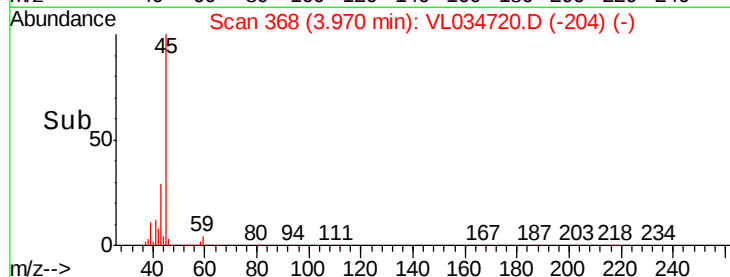
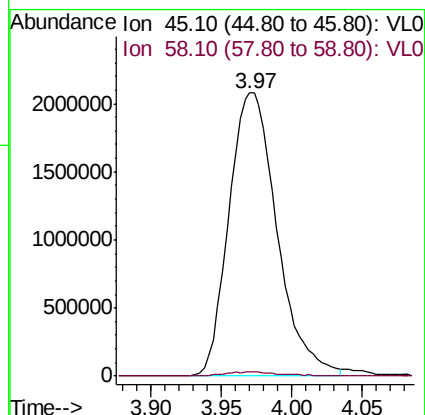
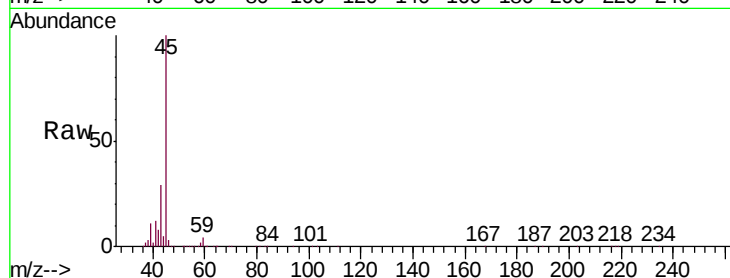
SG-1-MAIN-ELECT-RM

Tgt Ion: 45 Resp: 4939635

Ion Ratio Lower Upper

45 100

58 1.7 1.8 2.6#



#20

Methylene Chloride

Concen: 3.873 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Tgt Ion: 84 Resp: 181237

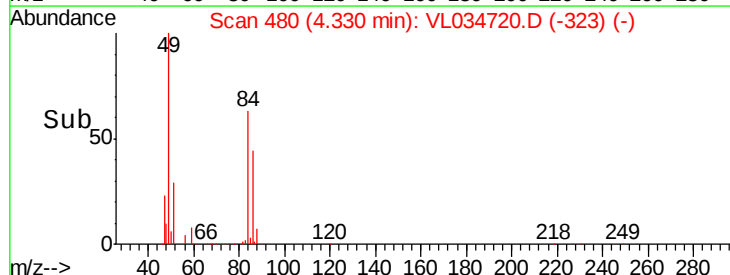
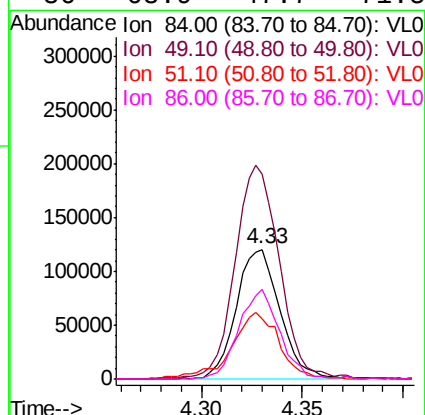
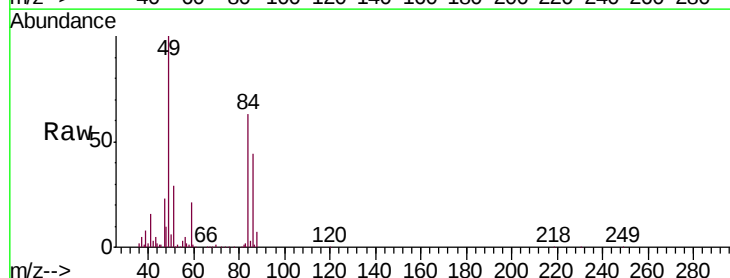
Ion Ratio Lower Upper

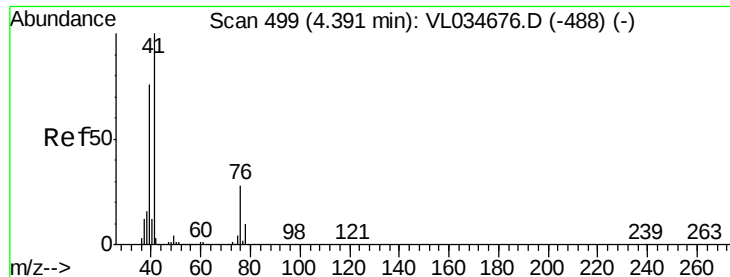
84 100

49 156.4 122.8 184.2

51 44.9 38.6 58.0

86 68.9 47.7 71.5

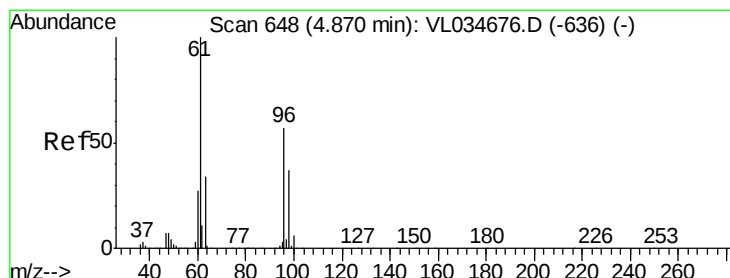
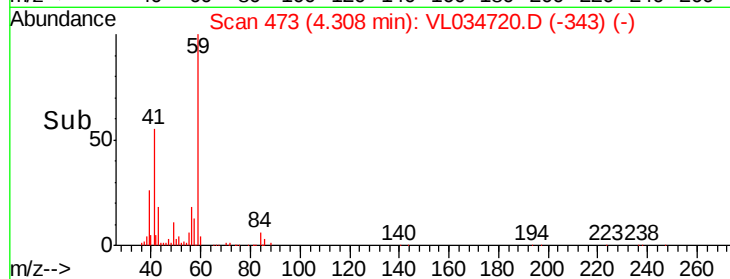
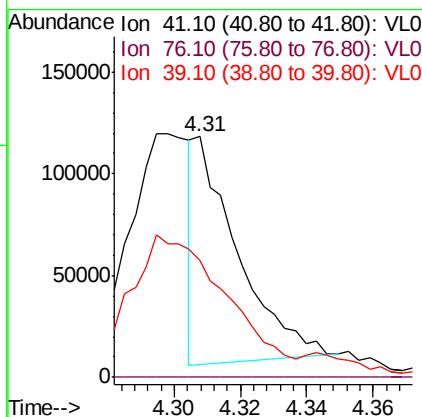
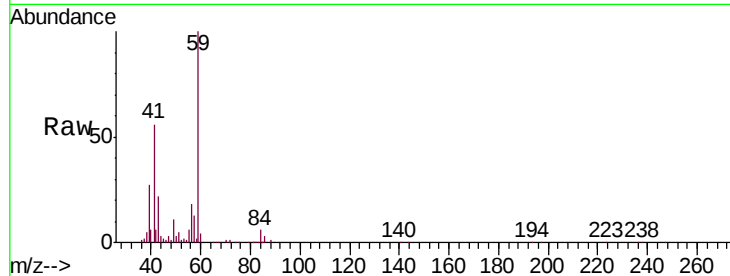




#21  
 Allyl Chloride  
 Concen: 1.197 ppbv  
 RT: 4.31 min Scan# 473  
 Delta R.T. -0.08 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

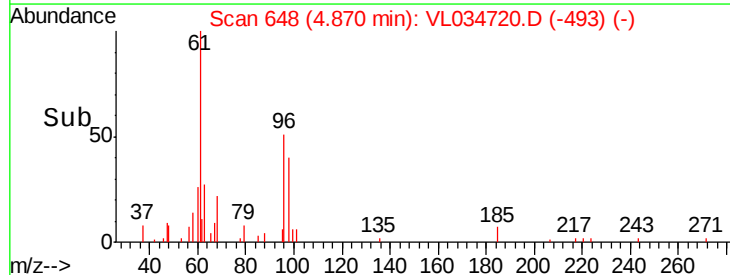
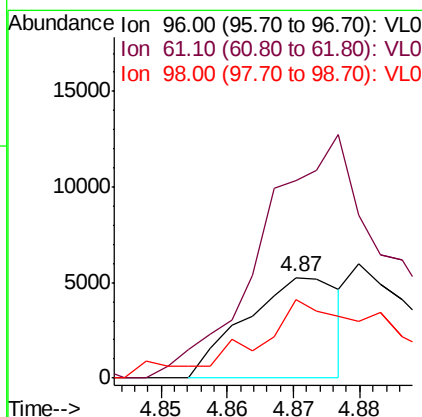
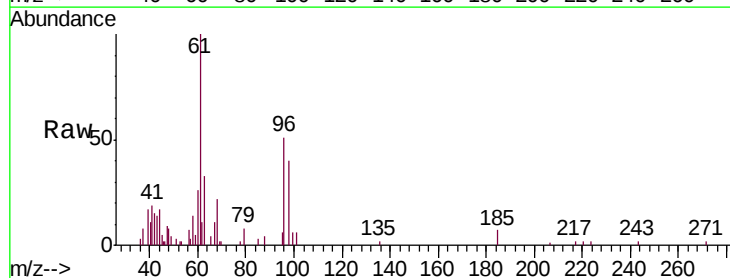
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-1-MAIN-ELECT-RM

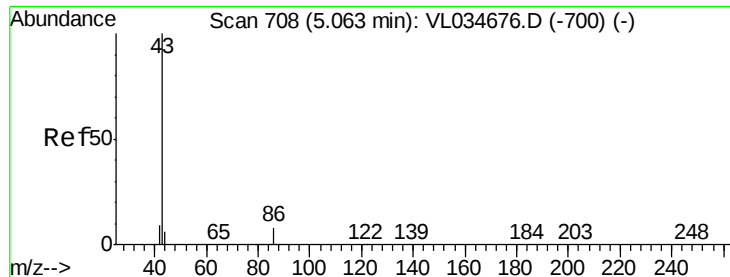
Tgt Ion: 41 Resp: 99642  
 Ion Ratio Lower Upper  
 41 100  
 76 0.0 22.8 34.2#  
 39 0.0 61.7 92.5#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.110 ppbv  
 RT: 4.87 min Scan# 648  
 Delta R.T. -0.00 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

Tgt Ion: 96 Resp: 5199  
 Ion Ratio Lower Upper  
 96 100  
 61 190.5 139.4 209.0  
 98 65.9 51.3 76.9





#23

Vinyl Acetate

Concen: 0.614 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.01 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

SG-1-MAIN-ELECT-RM

Tgt Ion: 43 Resp: 104999

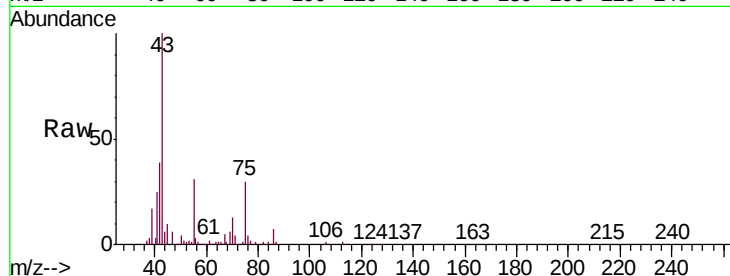
Ion Ratio Lower Upper

43 100

86 7.3 6.0 9.0

42 33.8 8.0 12.0#

44 2.7 4.5 6.7#

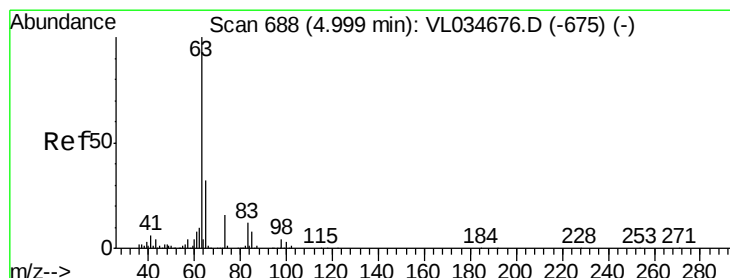
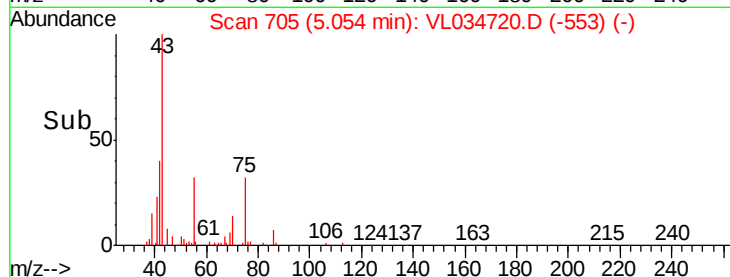
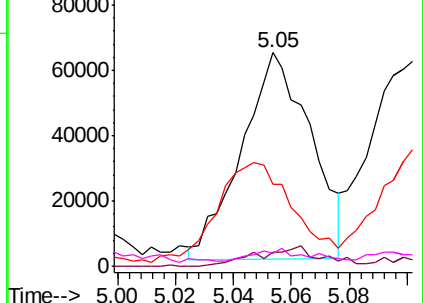


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.235 ppbv

RT: 5.00 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

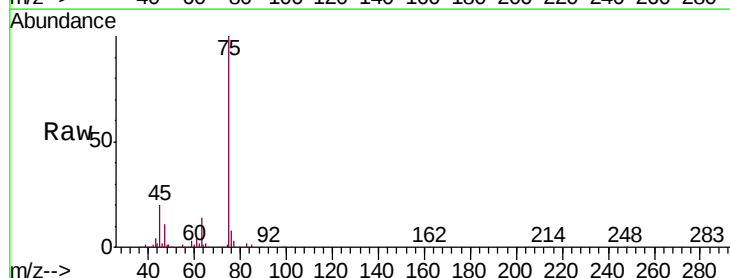
Tgt Ion: 63 Resp: 32143

Ion Ratio Lower Upper

63 100

98 2.2 2.1 6.2

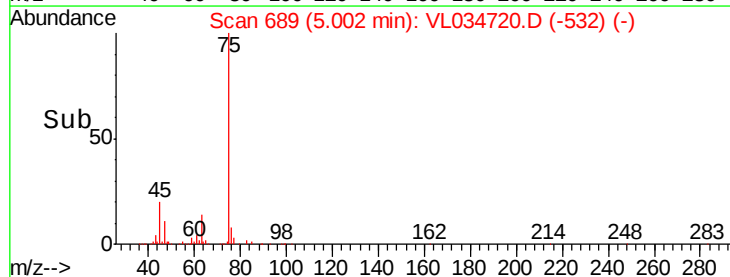
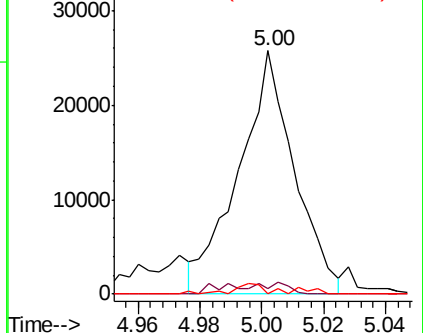
100 0.0 1.4 4.0#

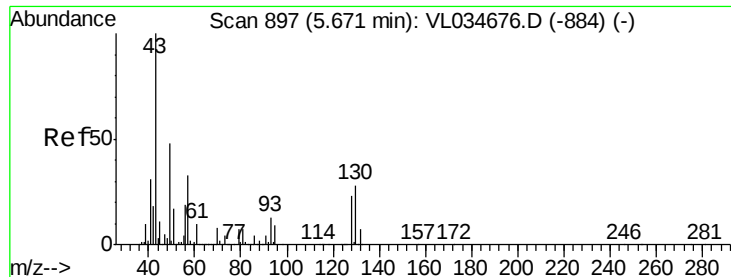


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

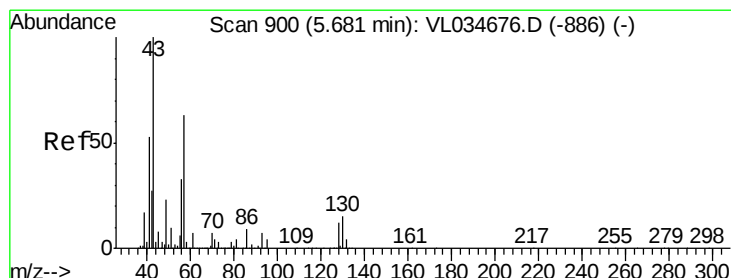
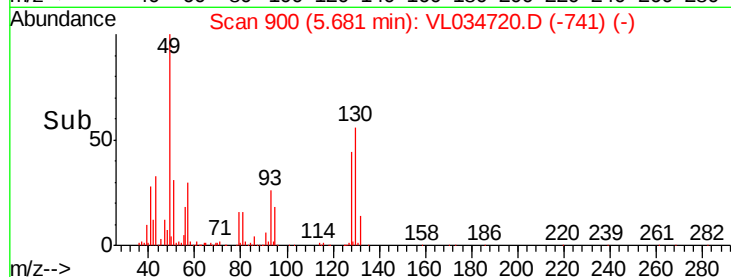
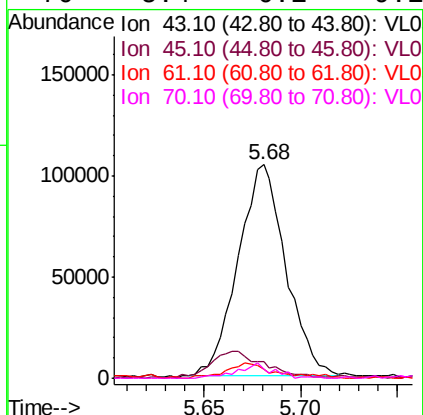
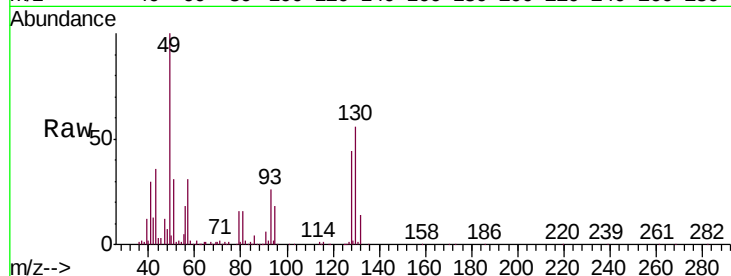




#25  
Ethyl Acetate  
Concen: 0.803 ppbv  
RT: 5.68 min Scan# 900  
Delta R.T. 0.01 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

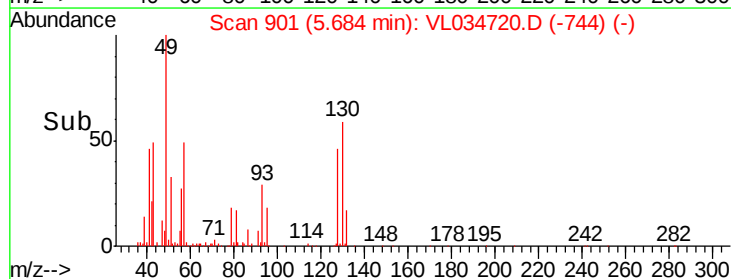
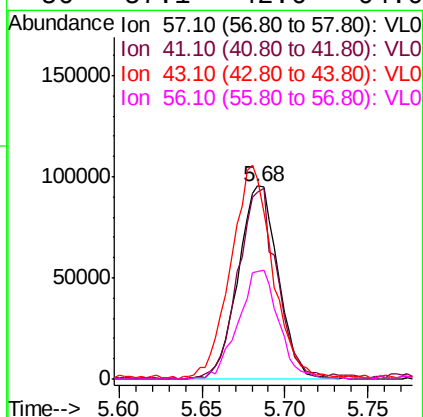
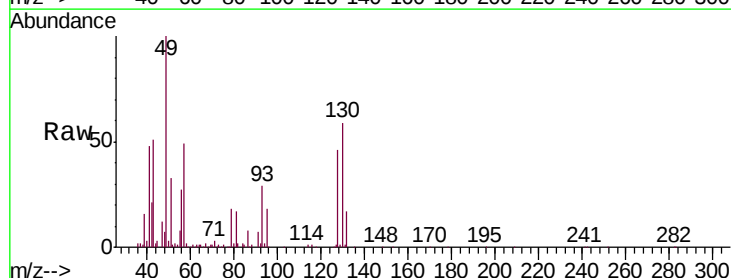
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1-MAIN-ELECT-RM

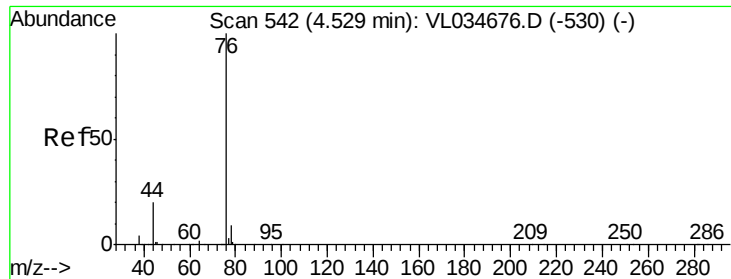
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 178765 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 15.3  | 8.2   | 12.4#  |
| 61       | 8.0   | 7.8   | 11.6   |
| 70       | 5.4   | 6.1   | 9.1#   |



#26  
Hexane  
Concen: 1.557 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 159820 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 98.8  | 70.3  | 105.5  |
| 43       | 117.4 | 177.0 | 265.4# |
| 56       | 57.1  | 42.6  | 64.0   |





#27

Carbon Disulfide

Concen: 0.125 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

SG-1-MAIN-ELECT-RM

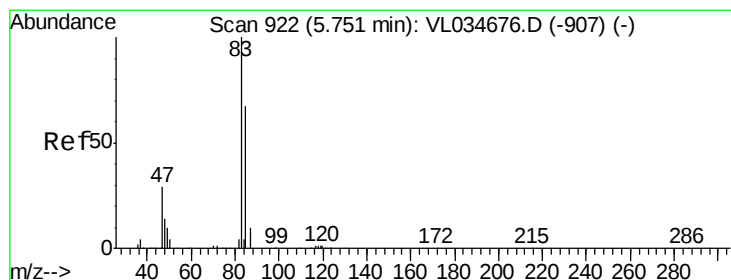
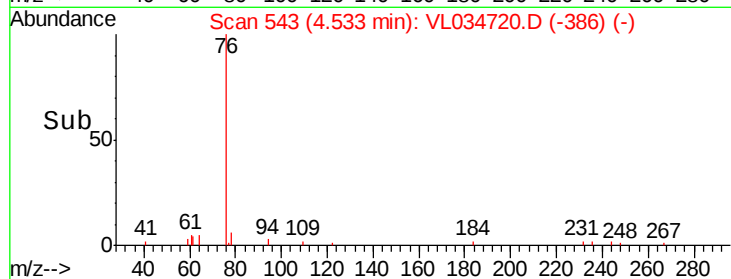
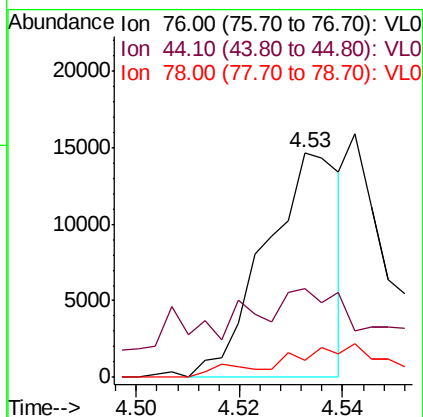
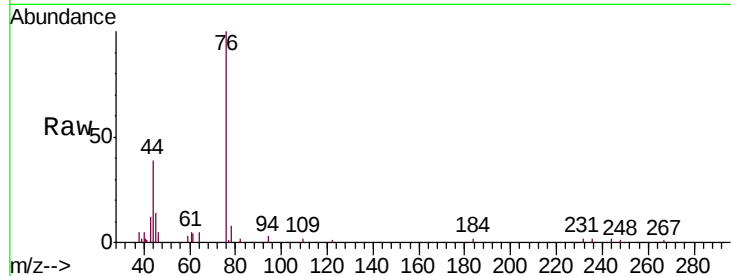
Tgt Ion: 76 Resp: 14614

Ion Ratio Lower Upper

76 100

44 53.0 15.3 22.9#

78 0.0 7.6 11.4#



#29

Chloroform

Concen: 0.528 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.00 min

Lab File: VL034720.D

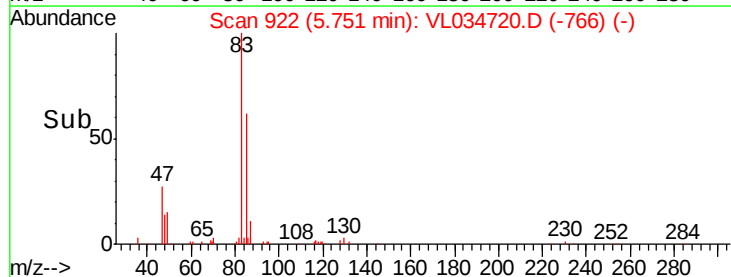
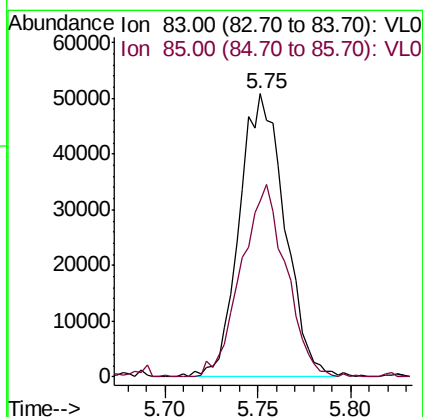
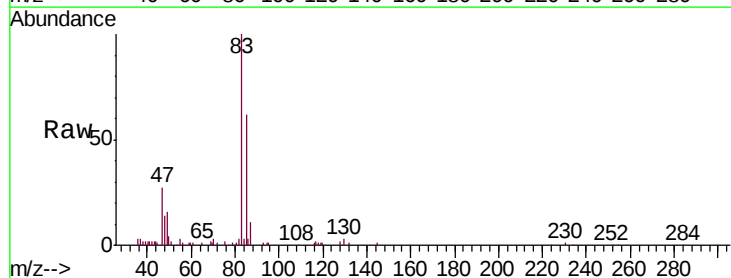
Acq: 27 Feb 2020 22:34

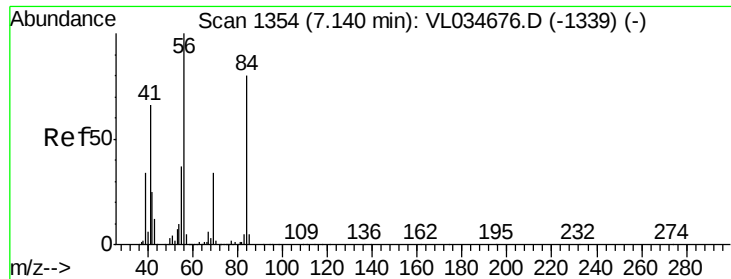
Tgt Ion: 83 Resp: 86308

Ion Ratio Lower Upper

83 100

85 62.1 53.9 80.9

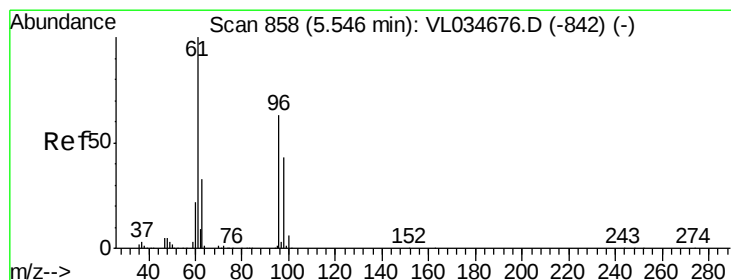
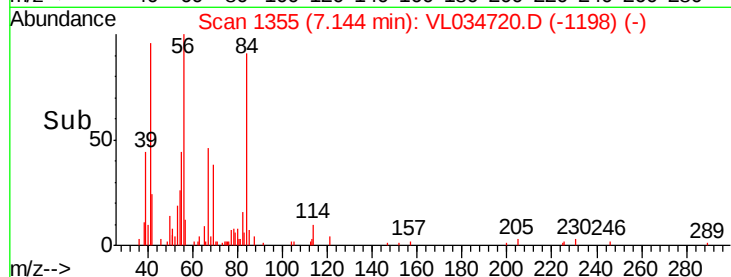
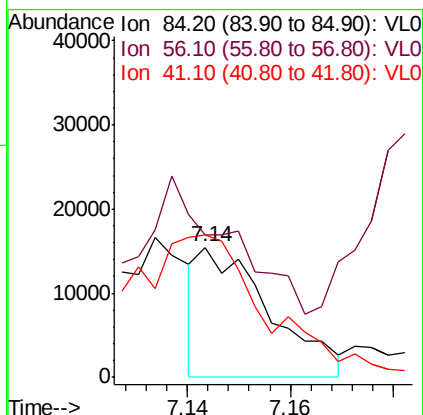
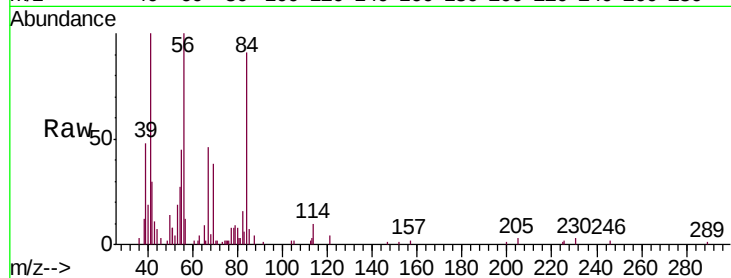




#30  
Cyclohexane  
Concen: 0.186 ppbv  
RT: 7.14 min Scan# 1355  
Delta R.T. 0.00 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

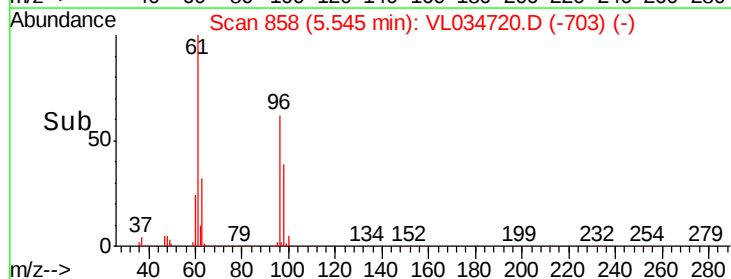
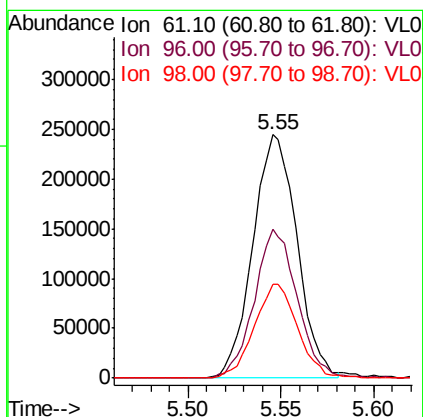
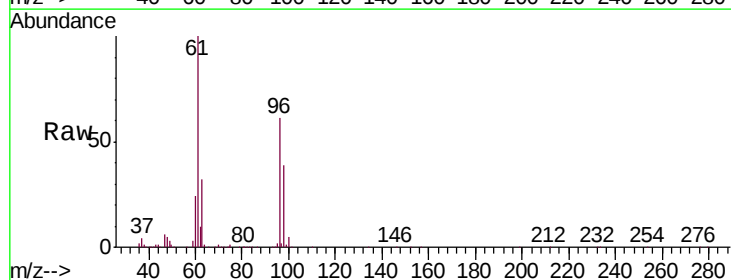
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1-MAIN-ELECT-RM

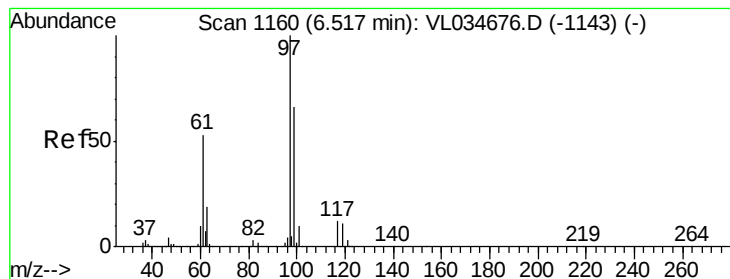
Tgt Ion: 84 Resp: 14769  
Ion Ratio Lower Upper  
84 100  
56 0.0 113.4 170.2#  
41 232.7 68.2 102.4#



#31  
cis-1,2-Dichloroethene  
Concen: 4.022 ppbv  
RT: 5.55 min Scan# 858  
Delta R.T. -0.00 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

Tgt Ion: 61 Resp: 406352  
Ion Ratio Lower Upper  
61 100  
96 61.3 50.2 75.2  
98 38.5 34.3 51.5





#32

1,1,1-Trichloroethane

Concen: 0.066 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.01 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

SG-1-MAIN-ELECT-RM

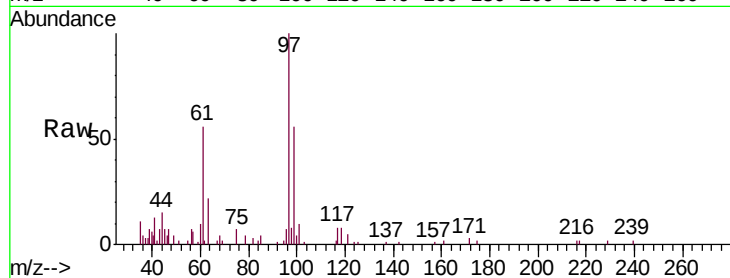
Tgt Ion: 97 Resp: 10070

Ion Ratio Lower Upper

97 100

99 186.6 52.3 78.5#

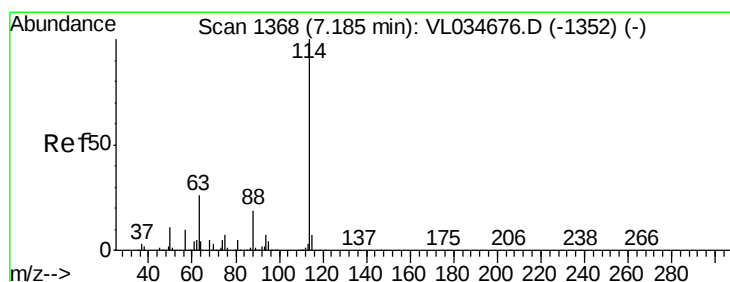
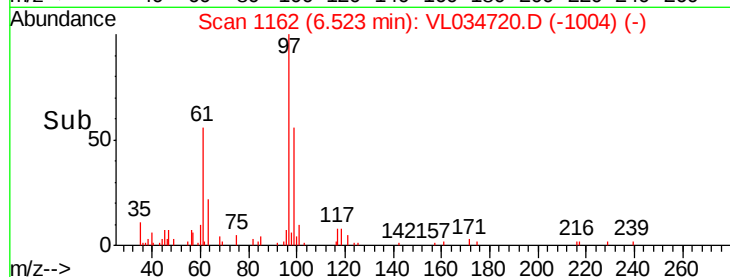
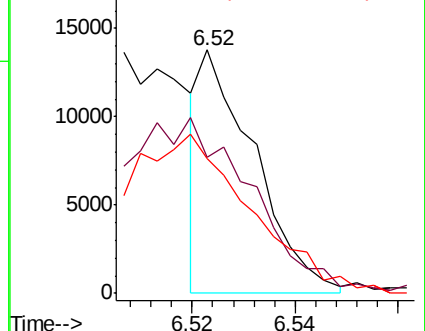
61 173.4 42.8 64.2#



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

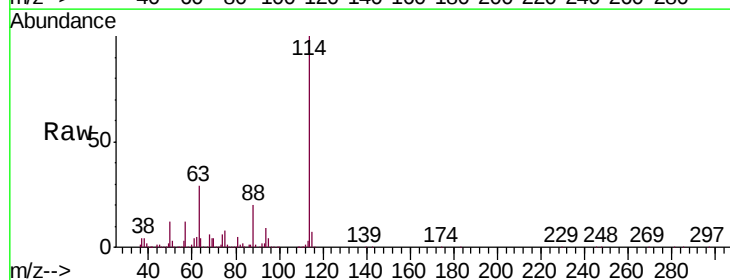
Tgt Ion: 114 Resp: 2230154

Ion Ratio Lower Upper

114 100

63 29.2 22.9 34.3

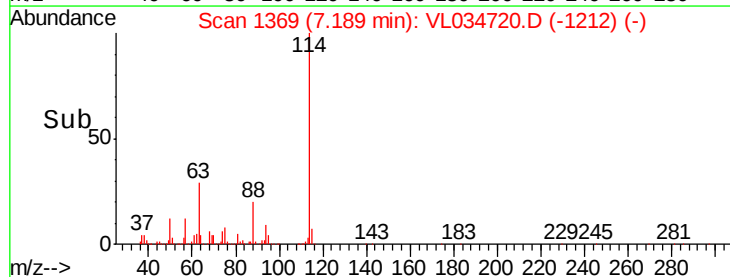
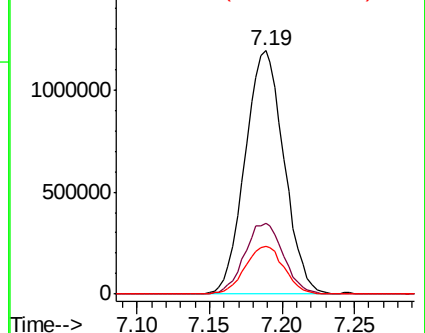
88 19.8 15.8 23.6

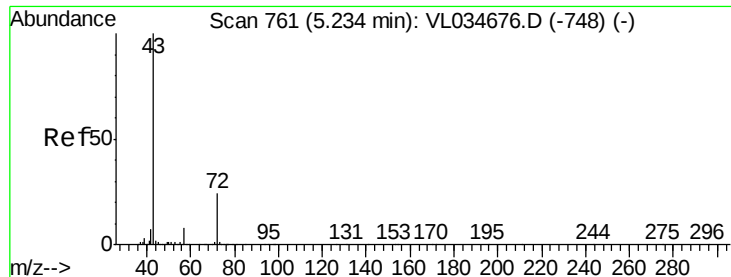


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

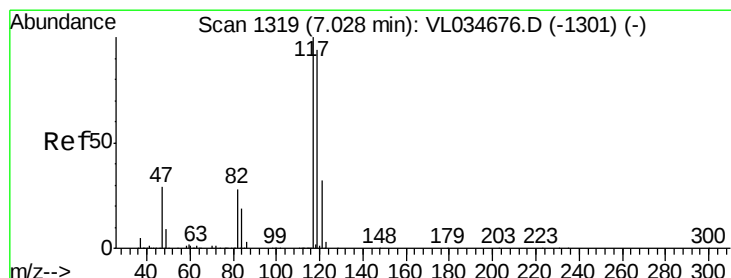
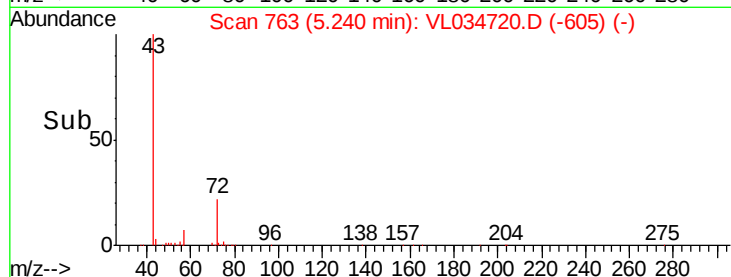
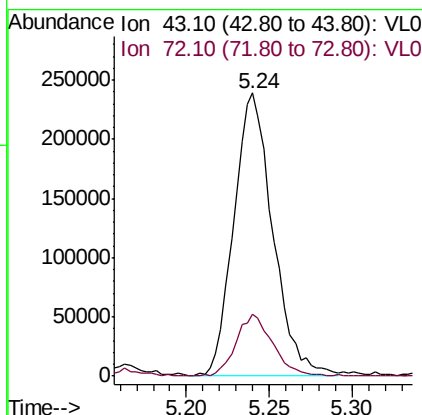
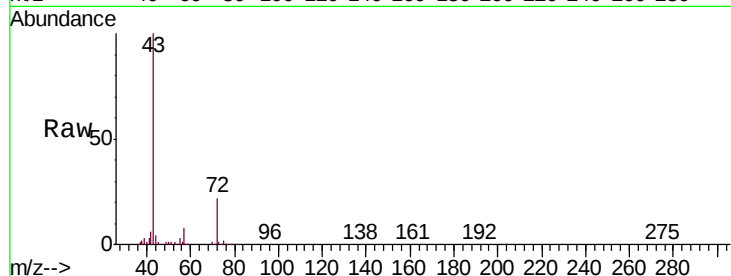




#34  
2-Butanone  
Concen: 2.758 ppbv  
RT: 5.24 min Scan# 763  
Delta R.T. 0.01 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

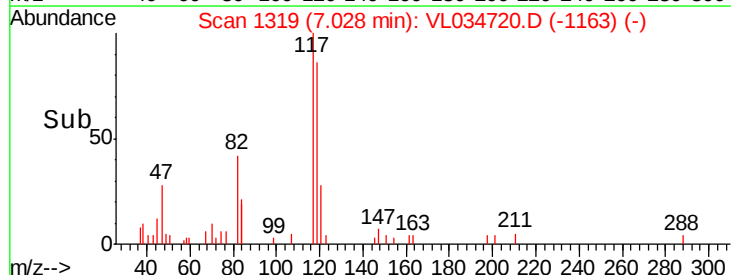
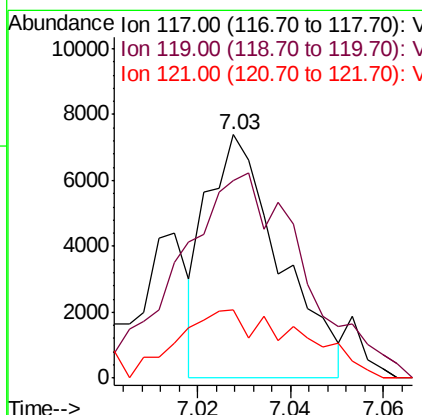
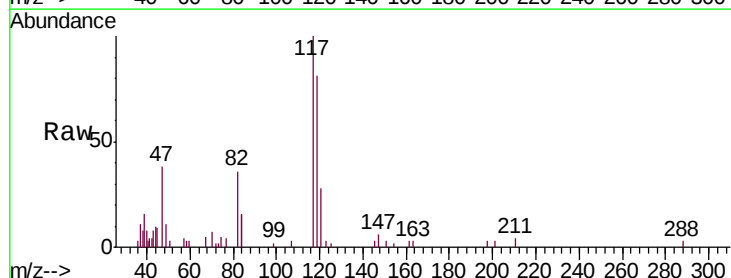
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1-MAIN-ELECT-RM

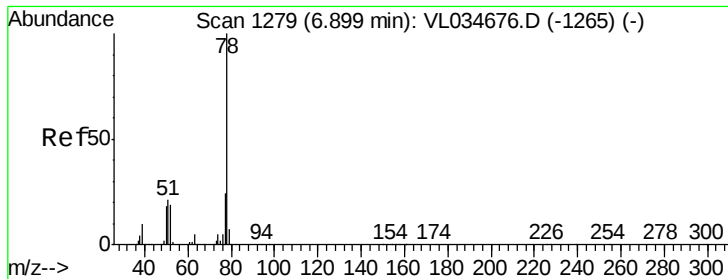
Tgt Ion: 43 Resp: 387094  
Ion Ratio Lower Upper  
43 100  
72 20.8 18.2 27.2



#35  
Carbon Tetrachloride  
Concen: 0.054 ppbv  
RT: 7.03 min Scan# 1319  
Delta R.T. -0.00 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

Tgt Ion: 117 Resp: 8087  
Ion Ratio Lower Upper  
117 100  
119 69.7 75.5 113.3#  
121 16.1 25.4 38.0#





#36

Benzene

Concen: 0.548 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. -0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

SG-1-MAIN-ELECT-RM

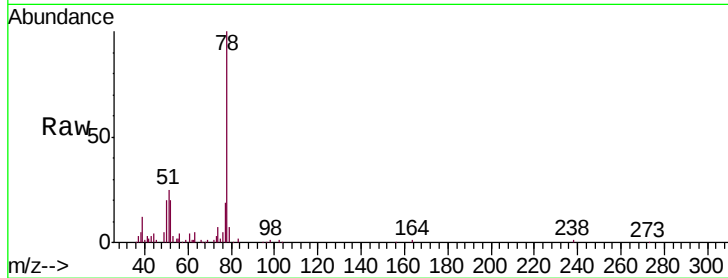
Tgt Ion: 78 Resp: 105496

Ion Ratio Lower Upper

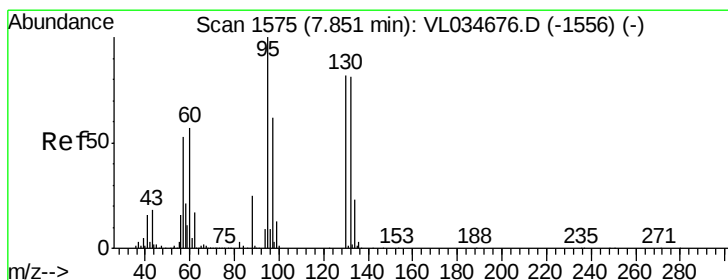
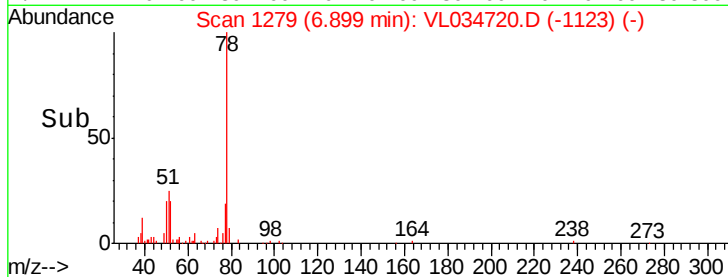
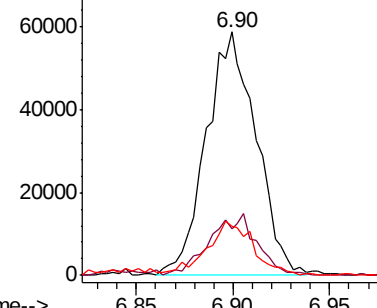
78 100

77 18.7 19.5 29.3#

50 19.4 14.6 21.8



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 5.523 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Tgt Ion: 130 Resp: 410016

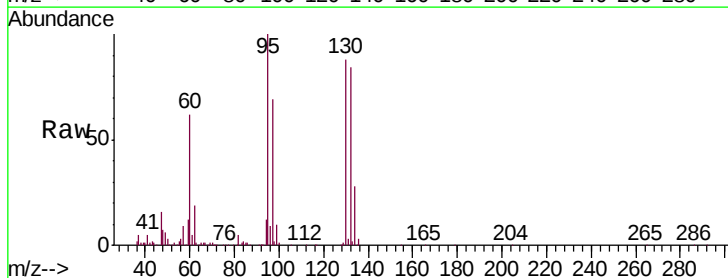
Ion Ratio Lower Upper

130 100

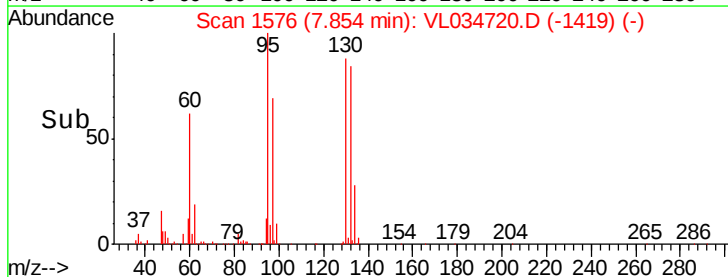
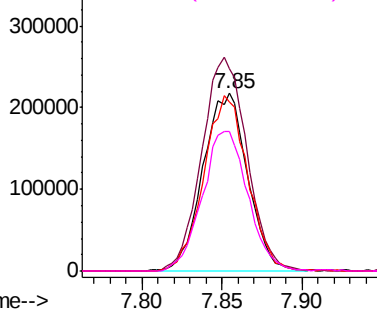
95 114.0 97.1 145.7

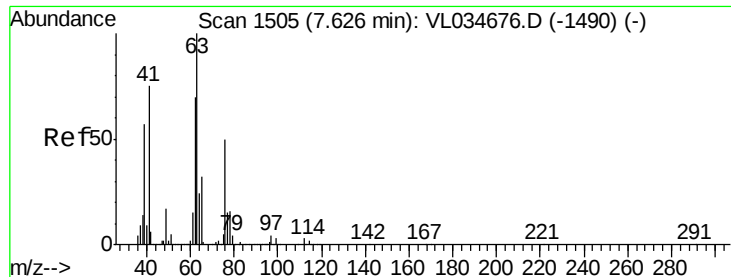
132 95.3 78.3 117.5

97 78.7 60.1 90.1



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

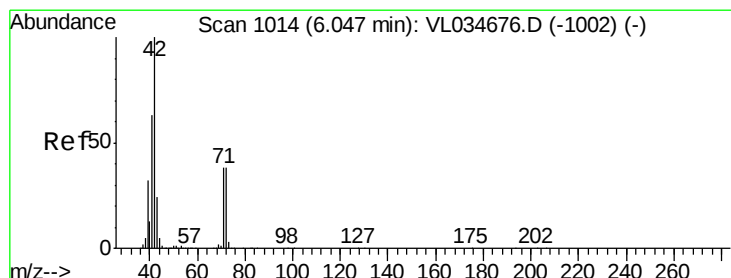
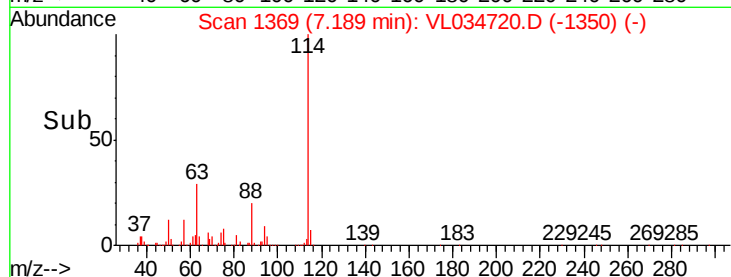
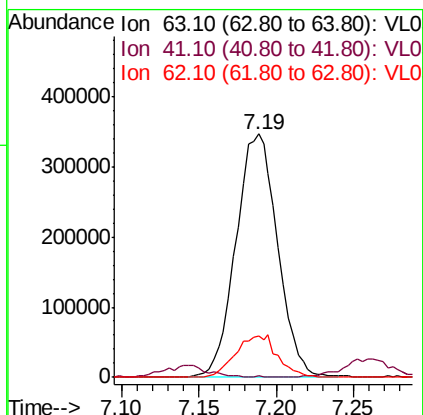
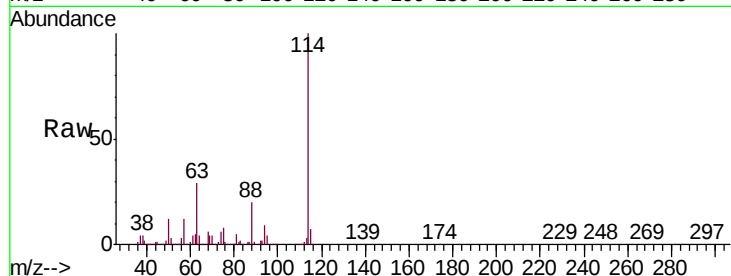




#39  
 1,2-Dichloropropane  
 Concen: 8.407 ppbv  
 RT: 7.19 min Scan# 1369  
 Delta R.T. -0.44 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

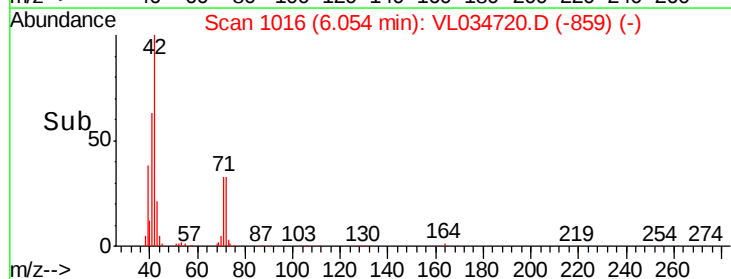
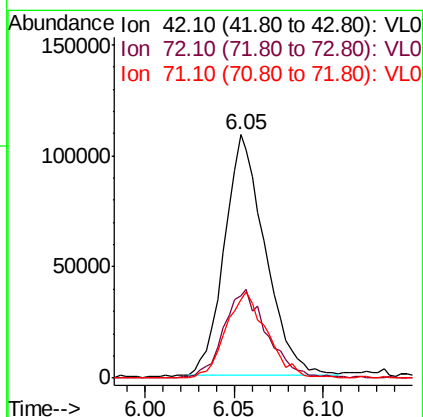
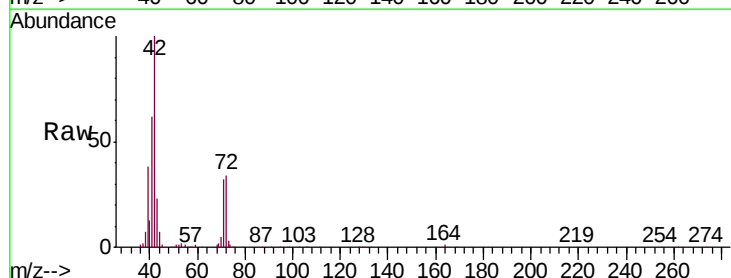
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-1-MAIN-ELECT-RM

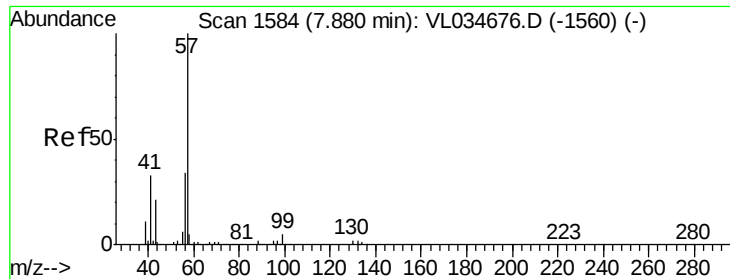
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.0   | 60.2  | 90.4# |
| 62      | 17.2  | 56.3  | 84.5# |



#41  
 Tetrahydrofuran  
 Concen: 2.314 ppbv  
 RT: 6.05 min Scan# 1016  
 Delta R.T. 0.01 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 39.4  | 31.7  | 47.5  |
| 71      | 36.7  | 30.7  | 46.1  |

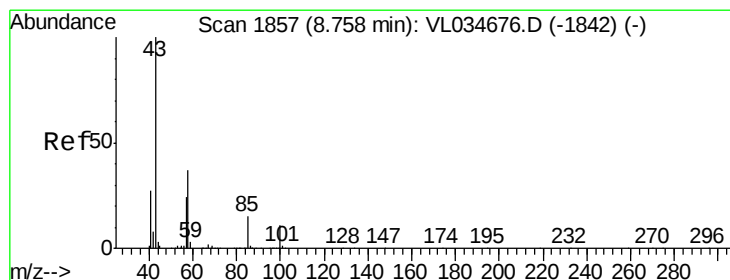
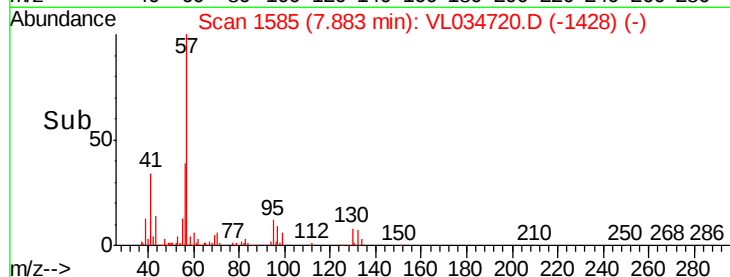
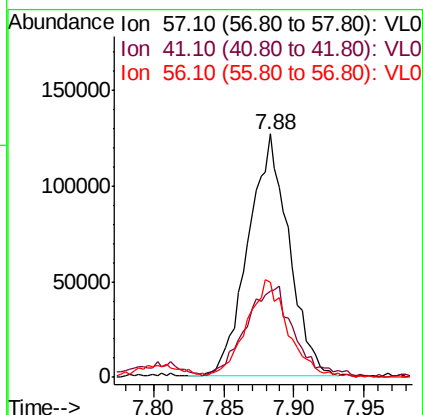
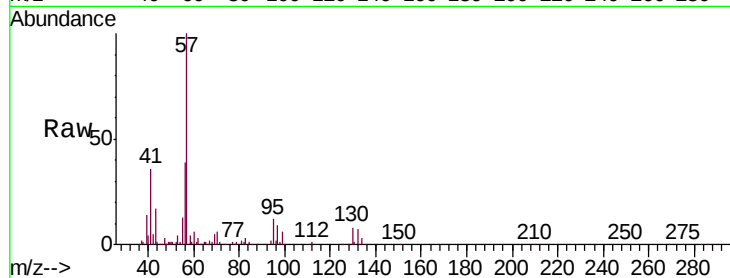




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.757 ppbv  
 RT: 7.88 min Scan# 1585  
 Delta R.T. 0.00 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

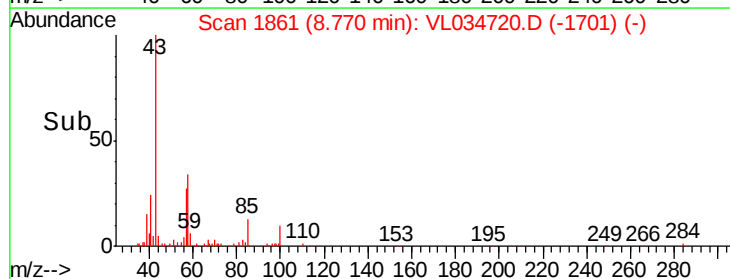
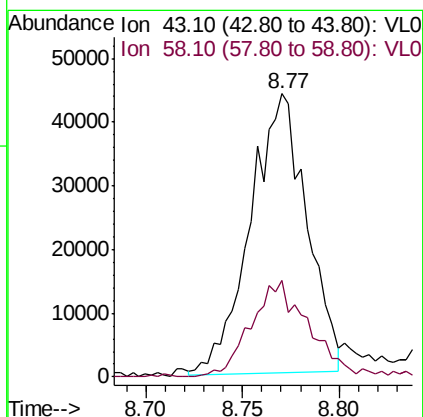
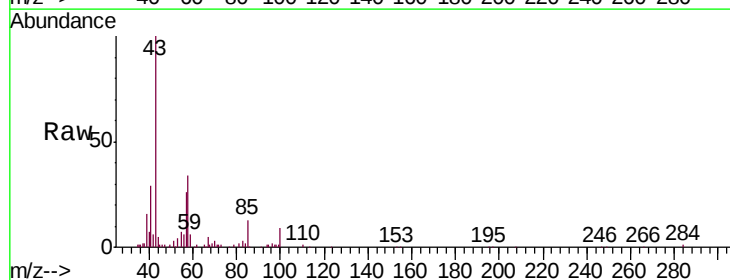
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-1-MAIN-ELECT-RM

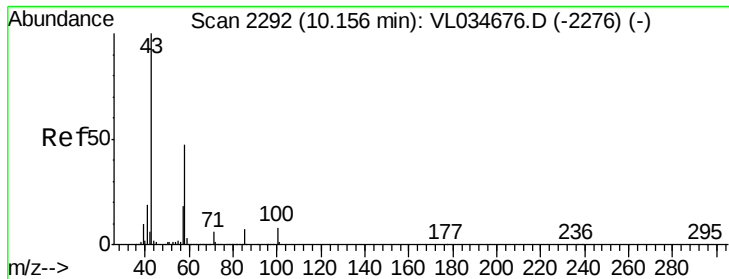
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 45.6  | 26.0  | 39.0# |
| 56      | 41.6  | 25.6  | 38.4# |



#50  
 4-Methyl-2-Pentanone  
 Concen: 0.446 ppbv  
 RT: 8.77 min Scan# 1861  
 Delta R.T. 0.01 min  
 Lab File: VL034720.D  
 Acq: 27 Feb 2020 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 37.1  | 29.0  | 43.6  |

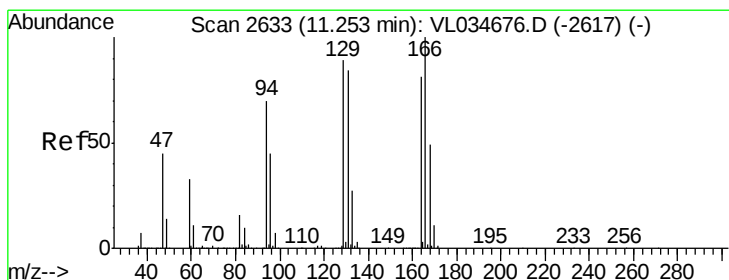
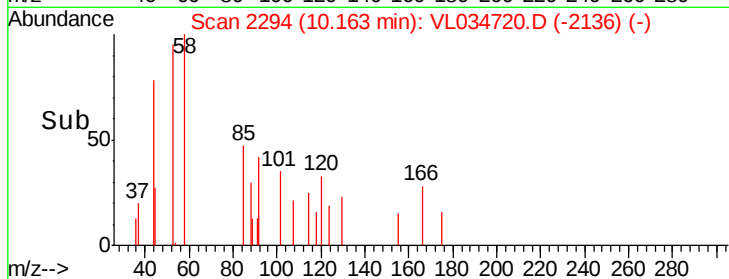
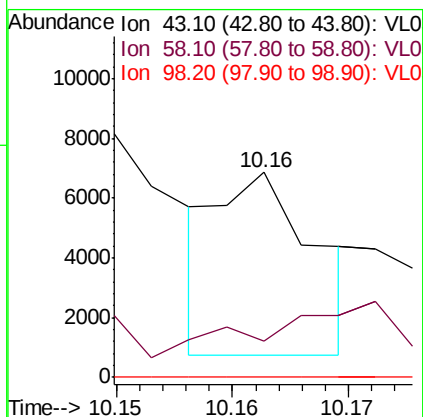
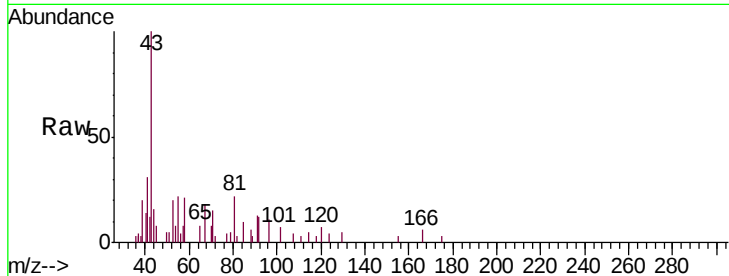




#51  
2-Hexanone  
Concen: 0.023 ppbv  
RT: 10.16 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

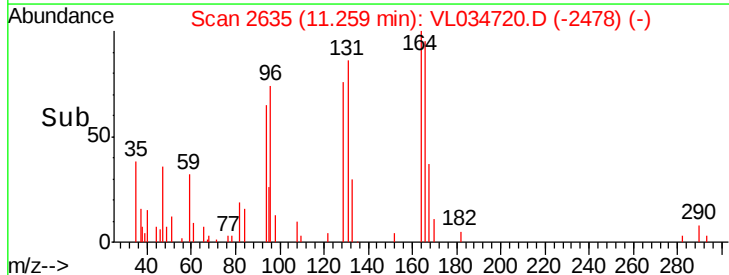
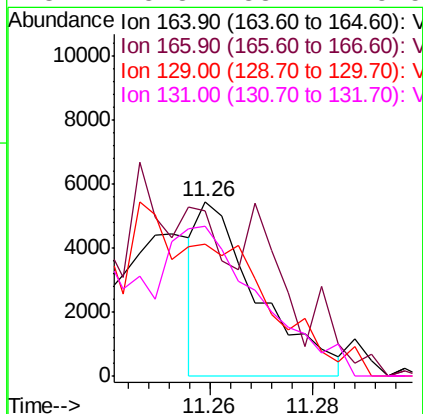
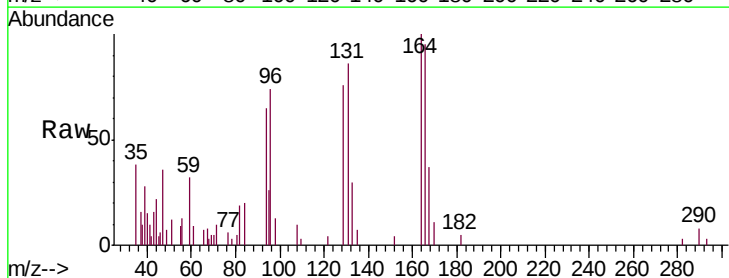
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1-MAIN-ELECT-RM

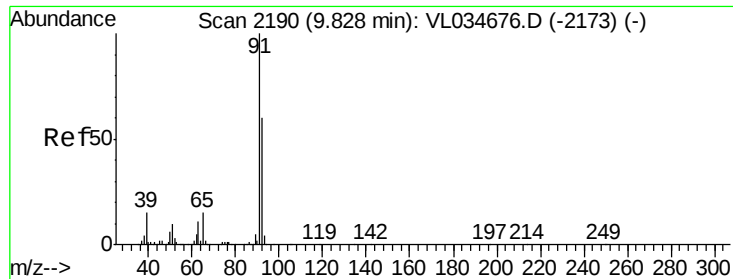
Tgt Ion: 43 Resp: 3568  
Ion Ratio Lower Upper  
43 100  
58 0.0 39.4 59.0#  
98 0.0 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 0.062 ppbv  
RT: 11.26 min Scan# 2635  
Delta R.T. 0.01 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

Tgt Ion: 164 Resp: 4353  
Ion Ratio Lower Upper  
164 100  
166 85.9 99.2 148.8#  
129 76.3 88.0 132.0#  
131 75.8 83.7 125.5#





#53

Toluene

Concen: 4.370 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

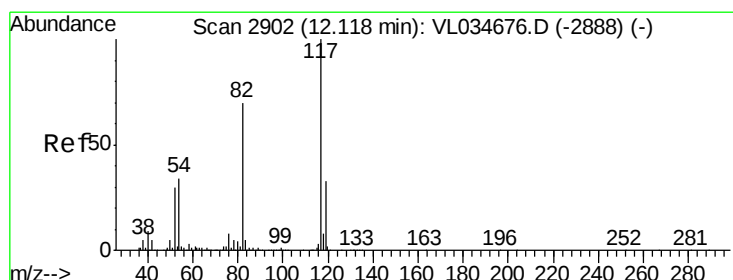
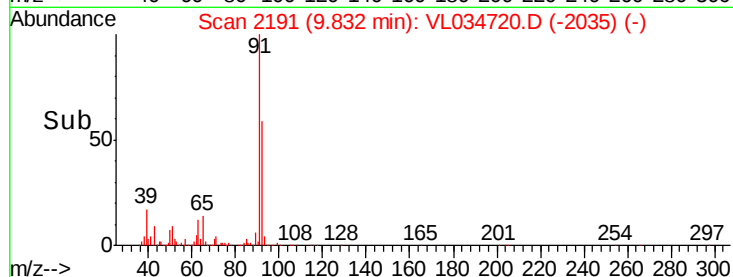
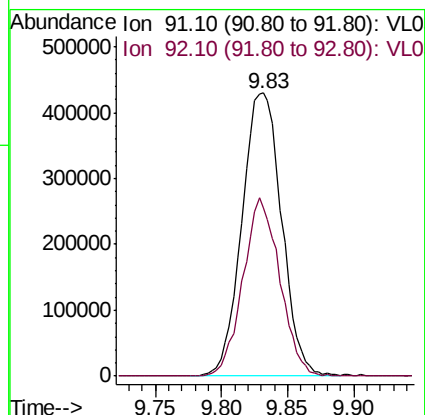
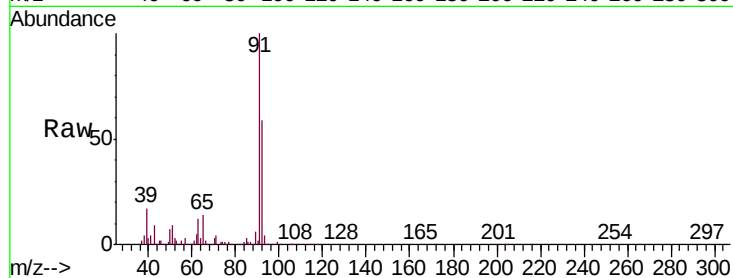
SG-1-MAIN-ELECT-RM

Tgt Ion: 91 Resp: 895287

Ion Ratio Lower Upper

91 100

92 58.6 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

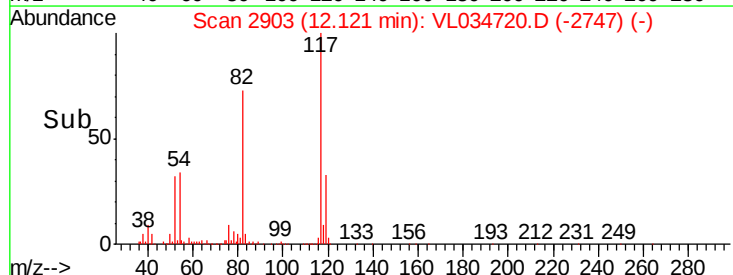
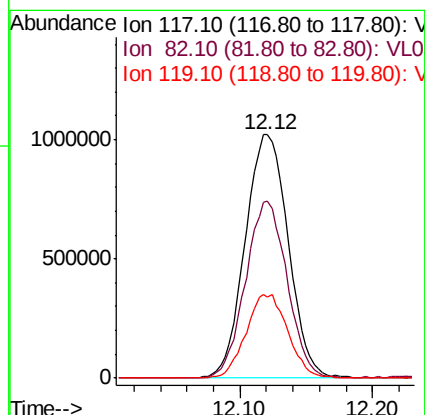
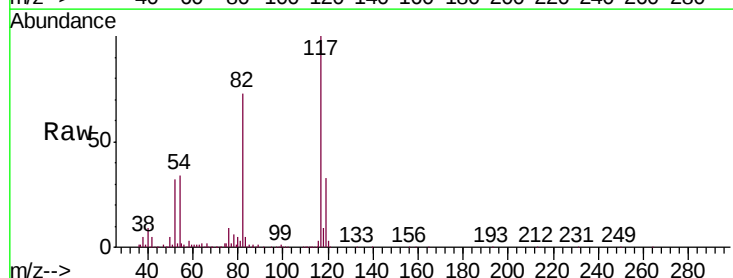
Tgt Ion: 117 Resp: 2307292

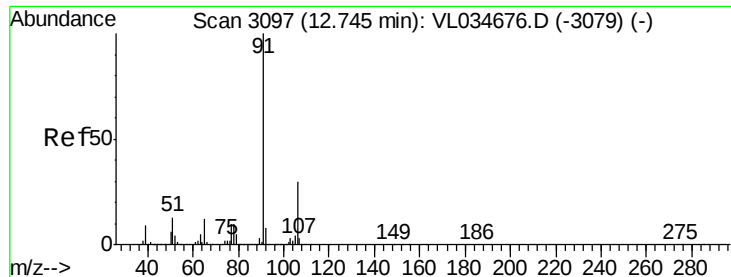
Ion Ratio Lower Upper

117 100

82 70.4 54.1 81.1

119 33.3 27.6 41.4





#58

Ethyl Benzene

Concen: 0.771 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

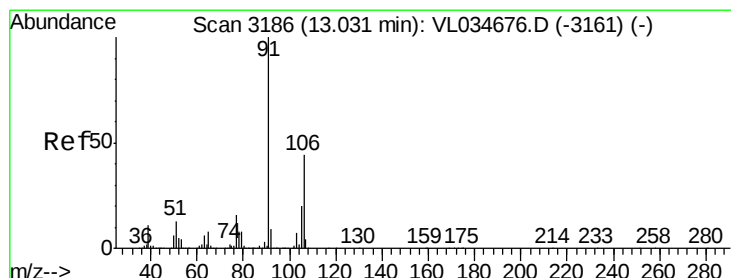
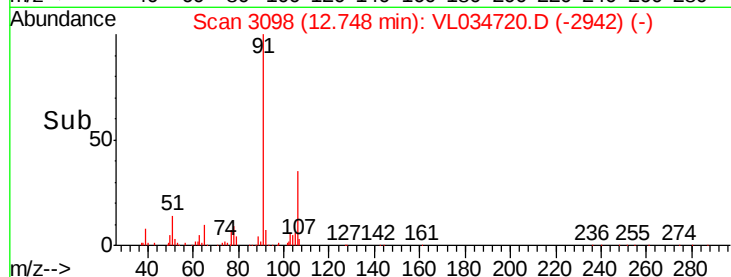
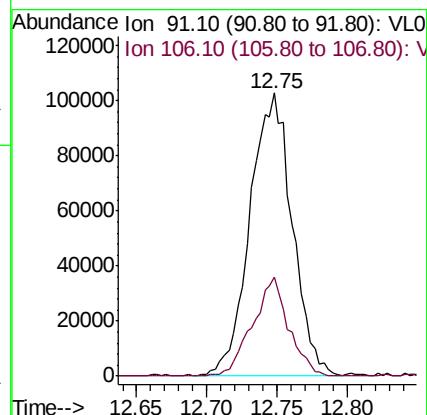
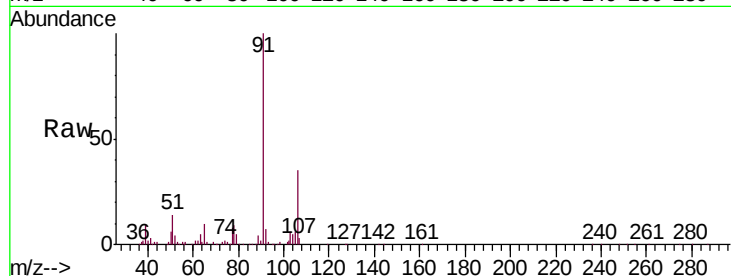
SG-1-MAIN-ELECT-RM

Tgt Ion: 91 Resp: 215233

Ion Ratio Lower Upper

91 100

106 34.8 24.0 36.0



#59

m/p-Xylene

Concen: 2.915 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. -0.03 min

Lab File: VL034720.D

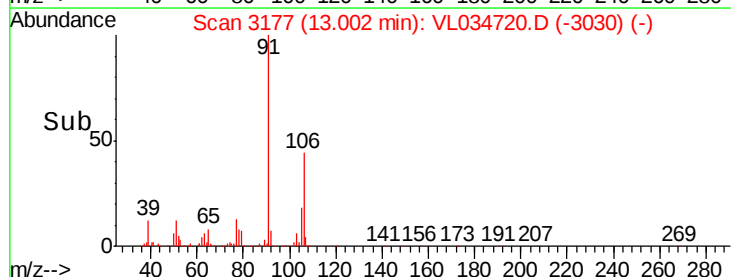
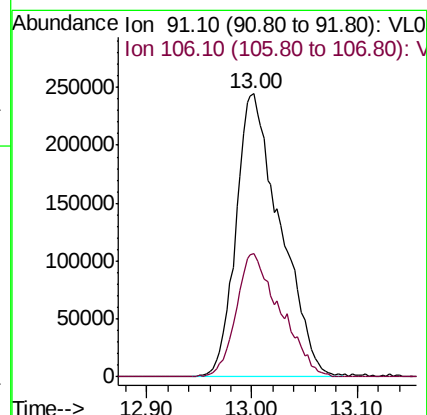
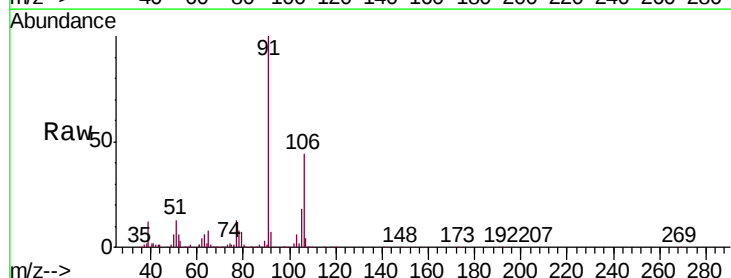
Acq: 27 Feb 2020 22:34

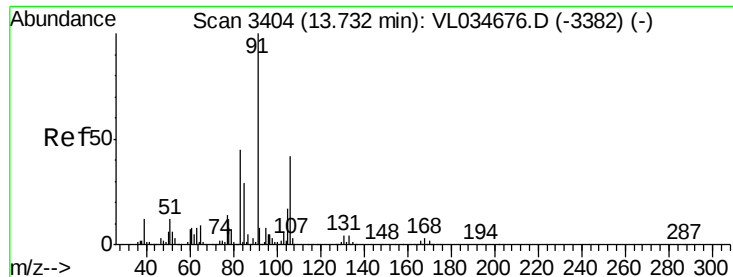
Tgt Ion: 91 Resp: 709693

Ion Ratio Lower Upper

91 100

106 43.8 35.6 53.4

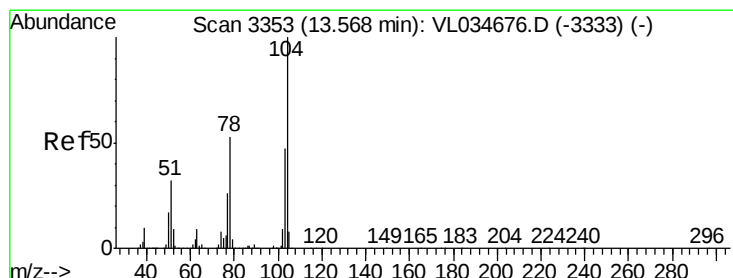
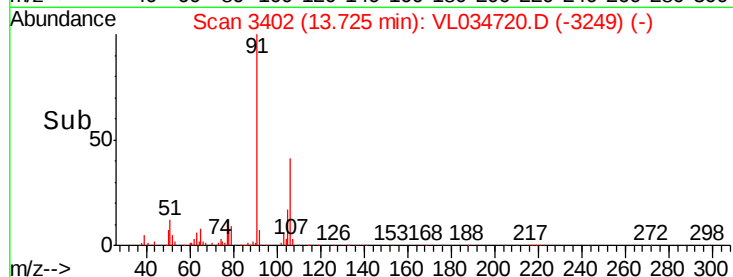
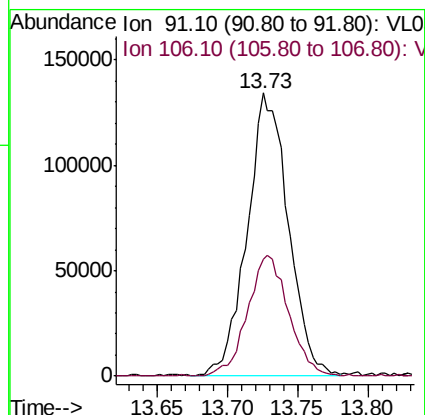
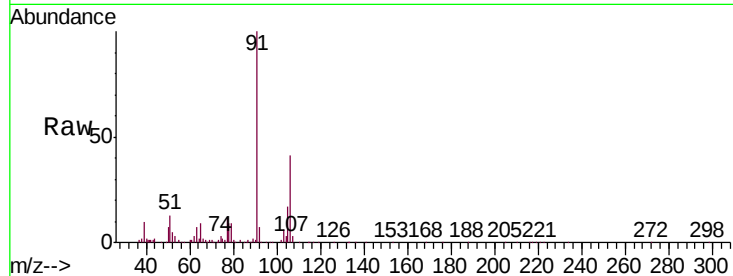




#60  
o-Xylene  
Concen: 1.129 ppbv  
RT: 13.73 min Scan# 3402  
Delta R.T. -0.01 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

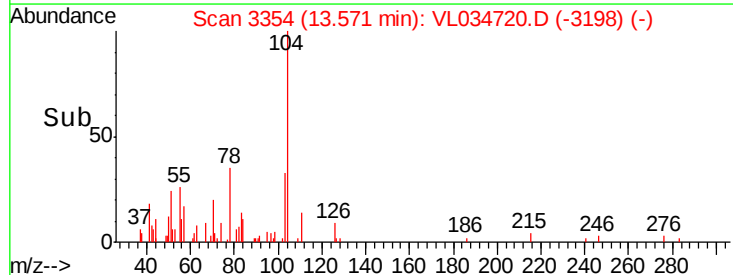
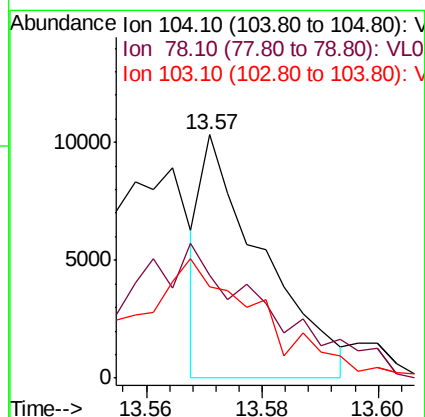
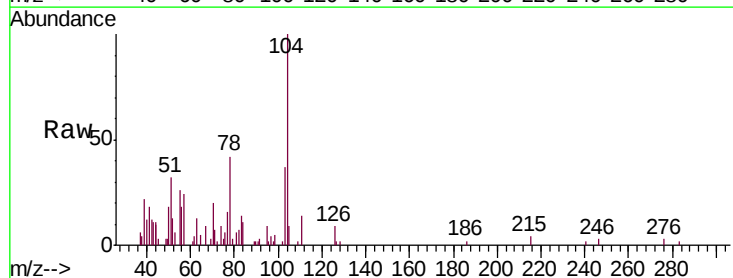
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1-MAIN-ELECT-RM

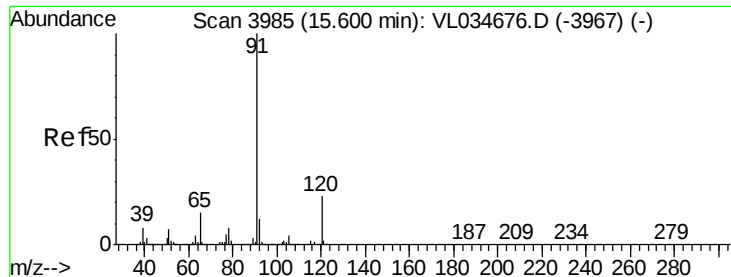
Tgt Ion: 91 Resp: 272753  
Ion Ratio Lower Upper  
91 100  
106 43.0 21.9 65.5



#61  
Styrene  
Concen: 0.049 ppbv  
RT: 13.57 min Scan# 3354  
Delta R.T. 0.00 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

Tgt Ion: 104 Resp: 7561  
Ion Ratio Lower Upper  
104 100  
78 148.0 44.2 66.4#  
103 124.1 37.4 56.0#





#64

n-propylbenzene

Concen: 0.070 ppbv

RT: 15.61 min Scan# 3987

Delta R.T. 0.01 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

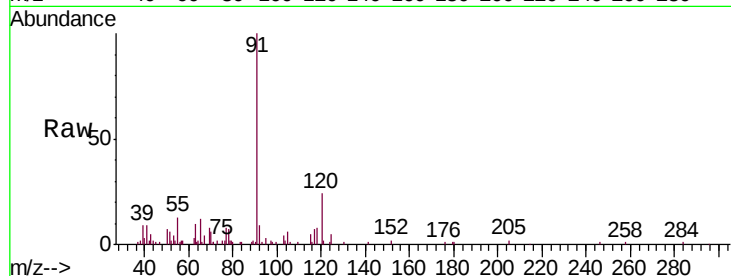
SG-1-MAIN-ELECT-RM

Tgt Ion:120 Resp: 6377

Ion Ratio Lower Upper

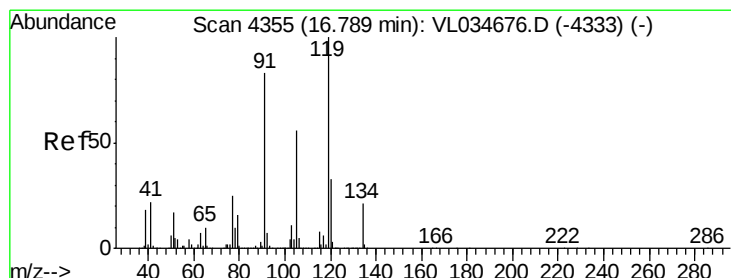
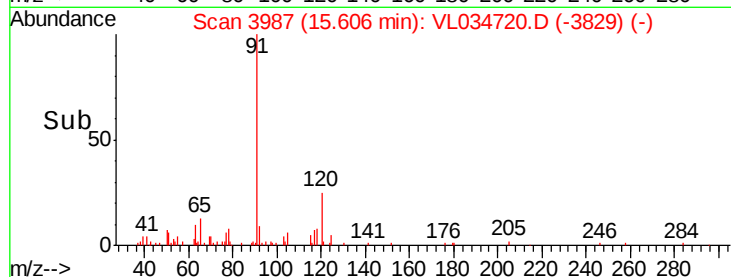
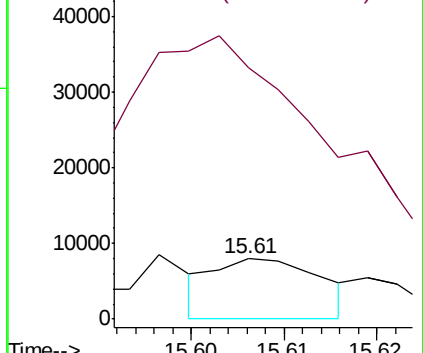
120 100

91 1322.1 369.8 554.8#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.075 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.02 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

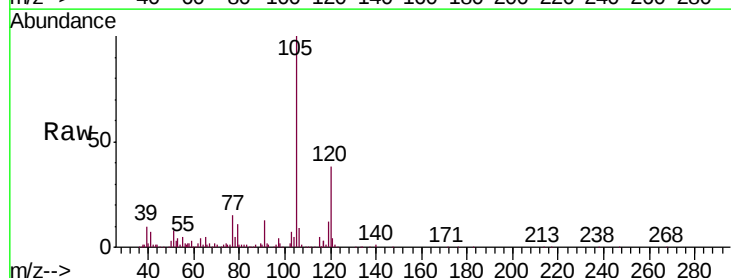
Tgt Ion:119 Resp: 22863

Ion Ratio Lower Upper

119 100

91 229.0 69.1 103.7#

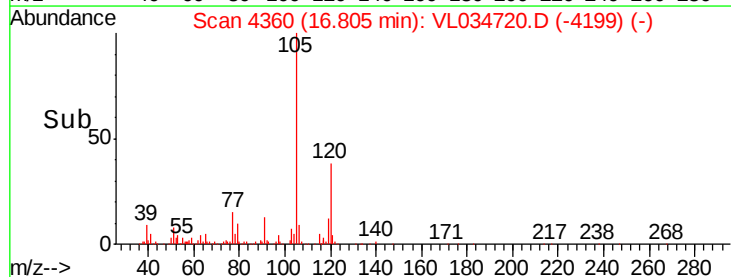
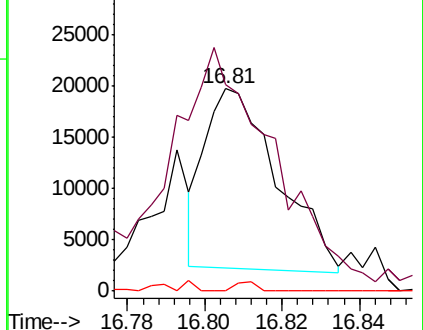
134 0.0 15.8 23.8#

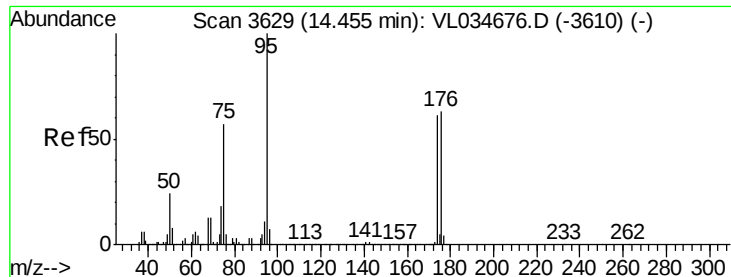


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.199 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. -0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

SG-1-MAIN-ELECT-RM

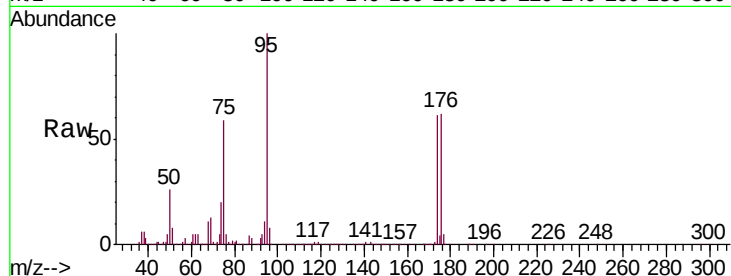
Tgt Ion: 95 Resp: 1929513

Ion Ratio Lower Upper

95 100

174 62.4 50.7 76.1

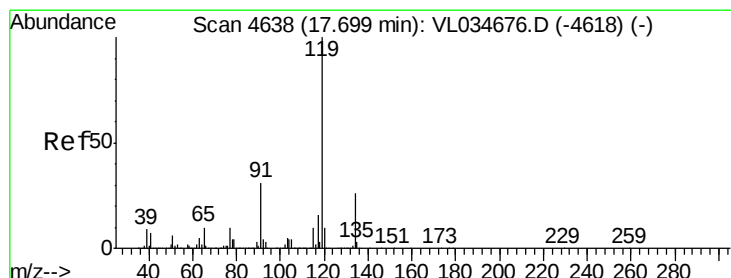
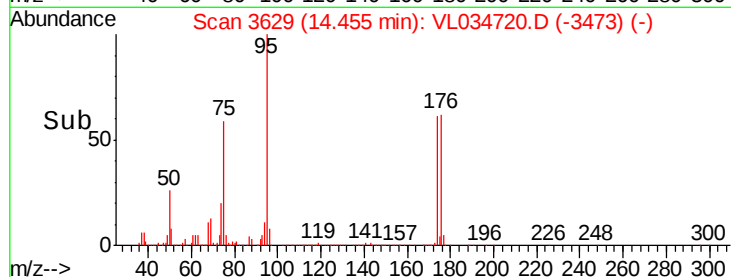
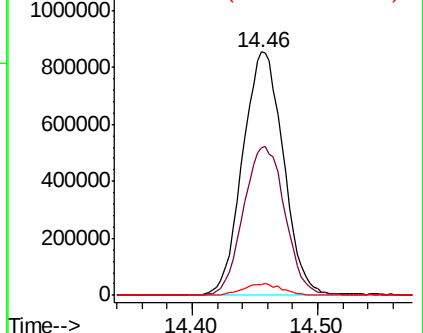
175 4.6 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 1.372 ppbv

RT: 17.70 min Scan# 4638

Delta R.T. -0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

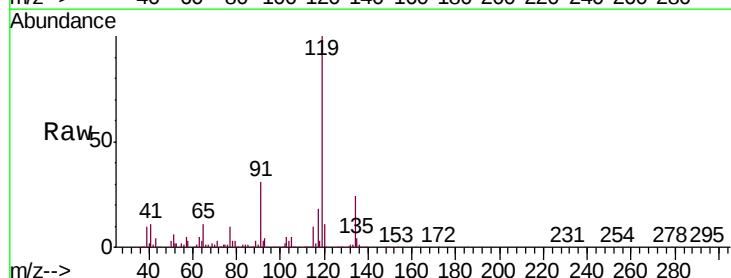
Tgt Ion: 119 Resp: 494546

Ion Ratio Lower Upper

119 100

134 24.2 20.6 31.0

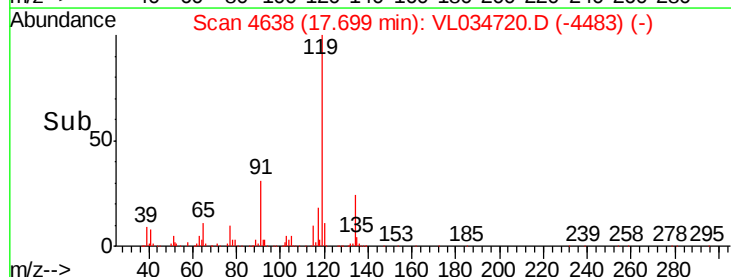
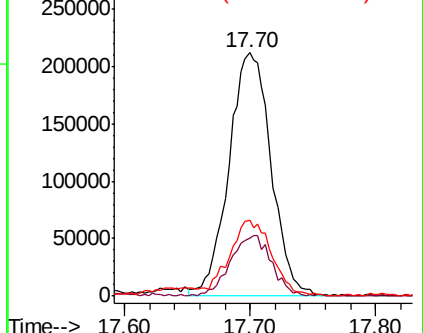
91 36.0 25.3 37.9

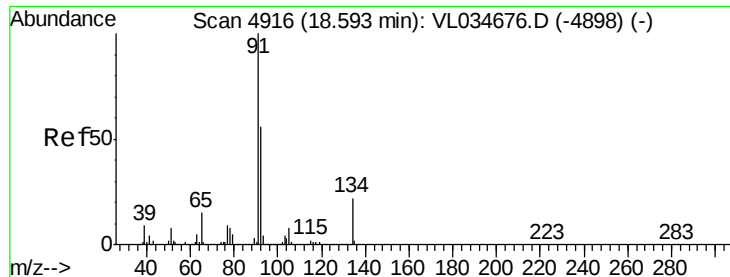


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#70

n-Butylbenzene

Concen: 1.805 ppbv

RT: 18.75 min Scan# 4966

Delta R.T. 0.16 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

SG-1-MAIN-ELECT-RM

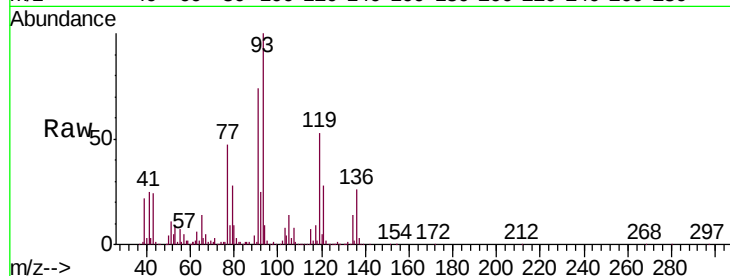
Tgt Ion: 91 Resp: 708581

Ion Ratio Lower Upper

91 100

92 35.9 43.8 65.6#

134 20.0 17.6 26.4

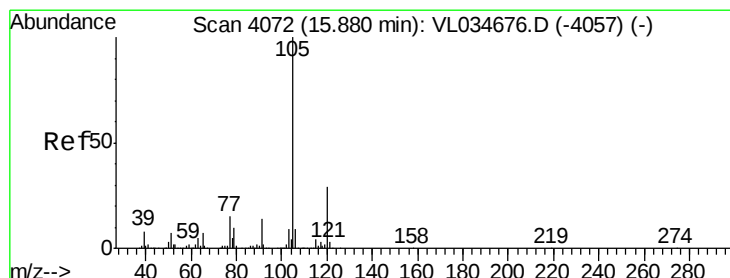
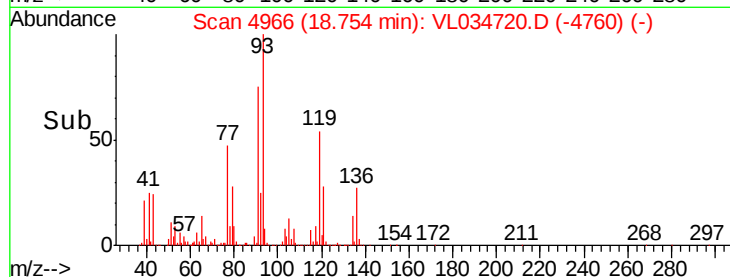
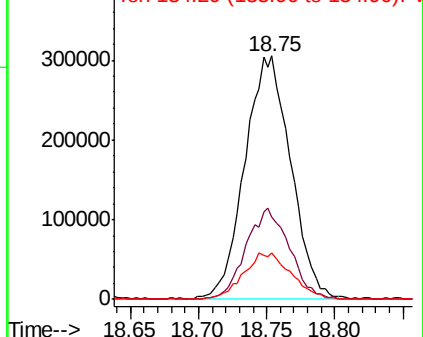


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): VL0



#72

4-Ethyltoluene

Concen: 0.306 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. -0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Tgt Ion: 105 Resp: 82385

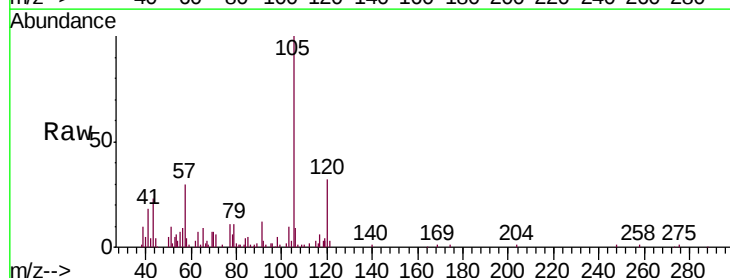
Ion Ratio Lower Upper

105 100

120 32.2 23.7 35.5

91 18.5 10.9 16.3#

77 18.9 12.2 18.2#



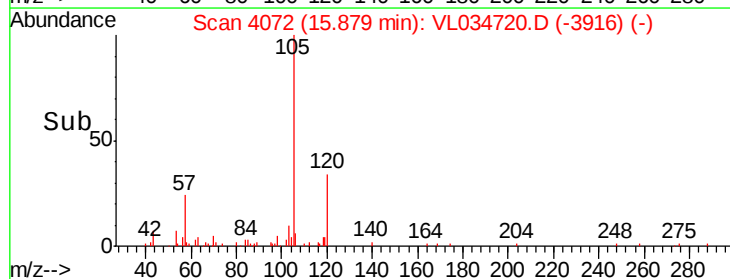
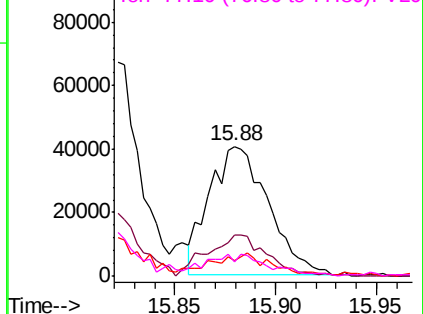
Abundance

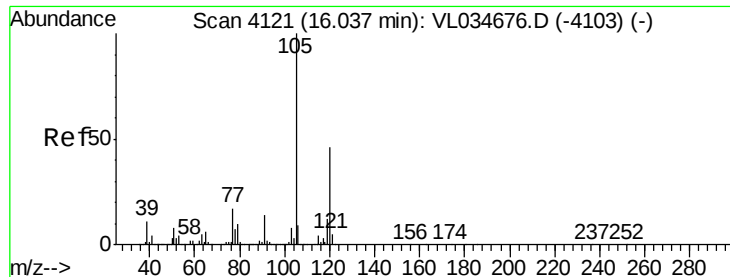
Ion 105.10 (104.80 to 105.80): VL0

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.178 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.00 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

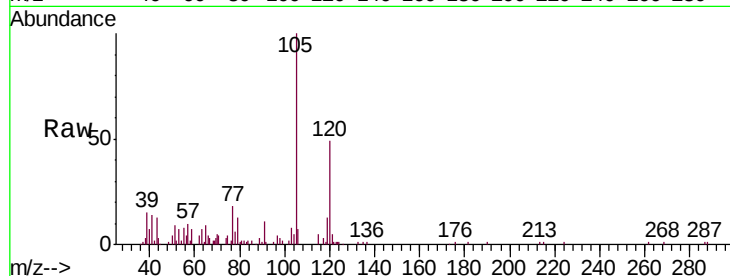
SG-1-MAIN-ELECT-RM

Tgt Ion:105 Resp: 46016

Ion Ratio Lower Upper

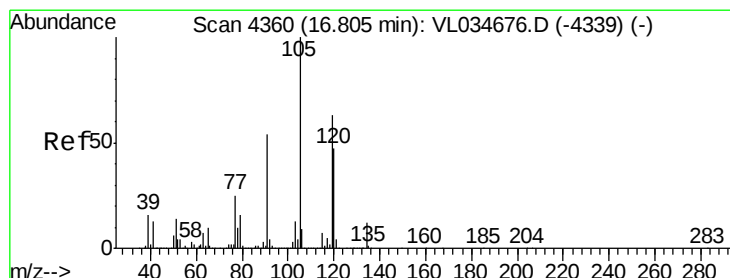
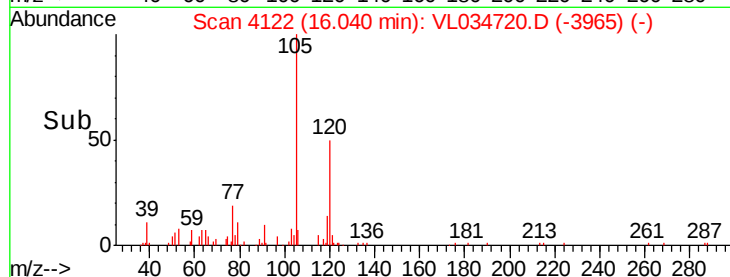
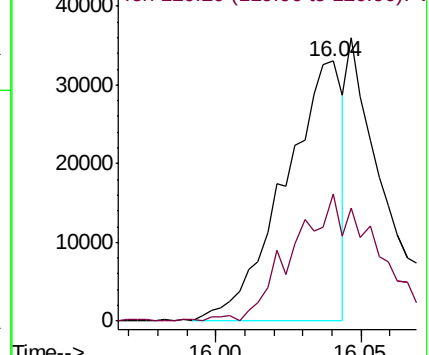
105 100

120 48.4 37.1 55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.480 ppbv

RT: 16.81 min Scan# 4362

Delta R.T. 0.01 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Tgt Ion:105 Resp: 137088

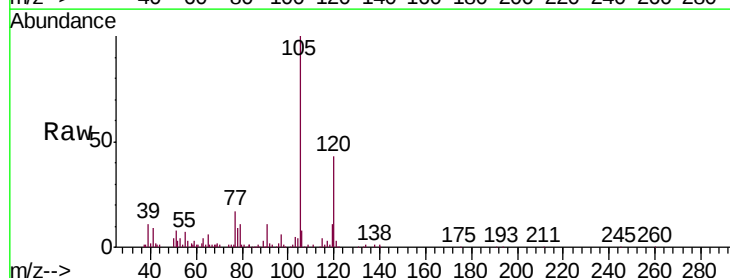
Ion Ratio Lower Upper

105 100

120 42.4 37.9 56.9

91 10.8 43.9 65.9#

77 16.6 20.3 30.5#

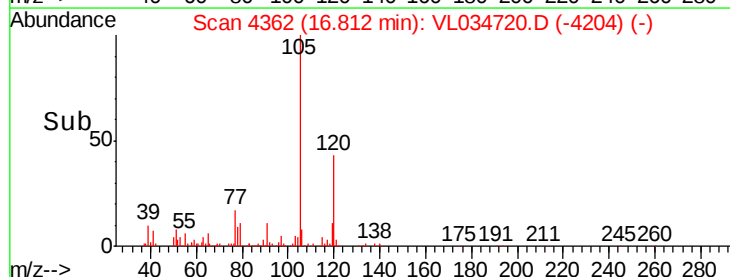
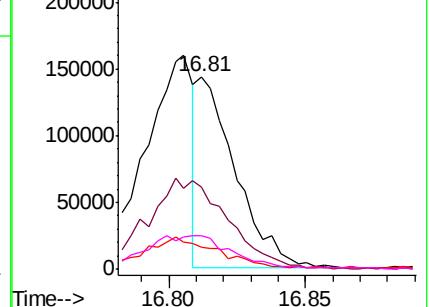


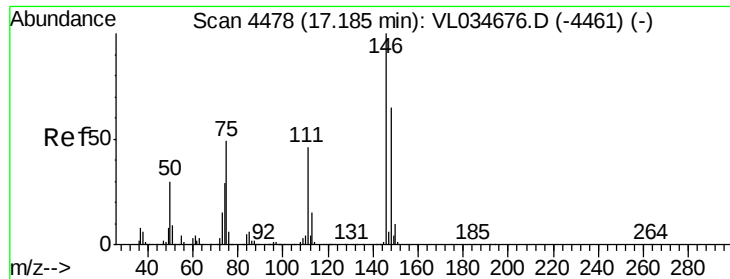
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

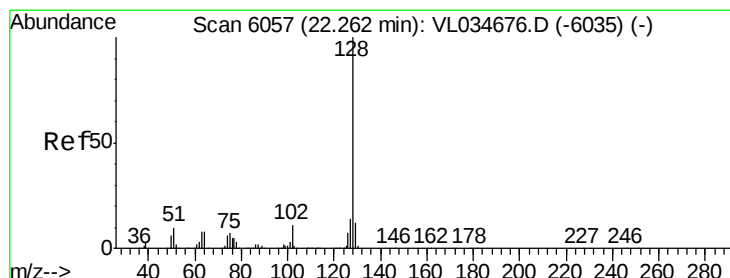
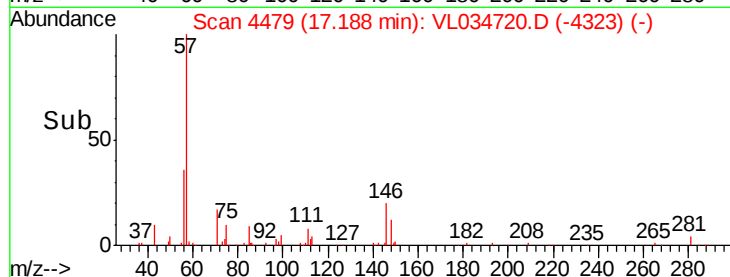
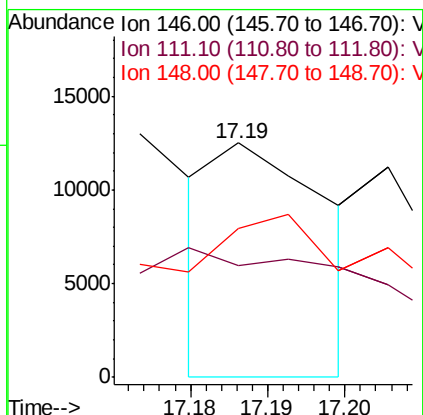
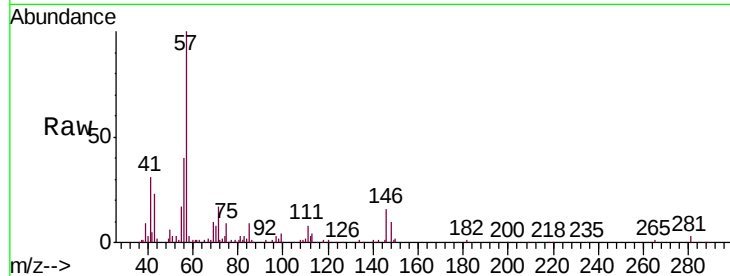




#76  
1,4-Dichlorobenzene  
Concen: 0.038 ppbv  
RT: 17.19 min Scan# 4479  
Delta R.T. 0.00 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

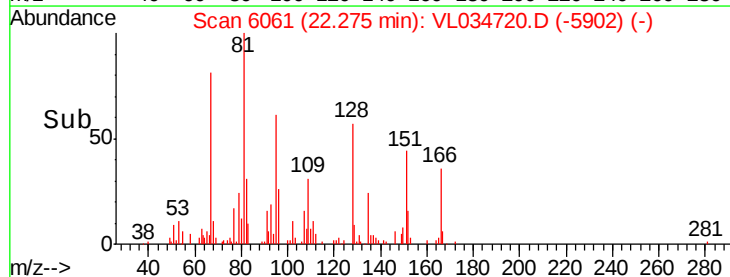
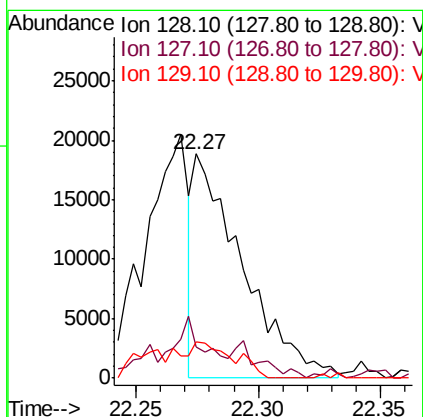
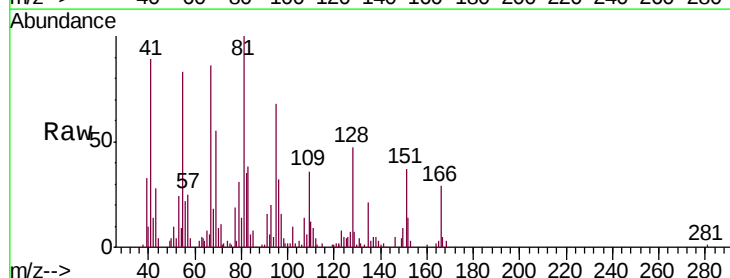
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-1-MAIN-ELECT-RM

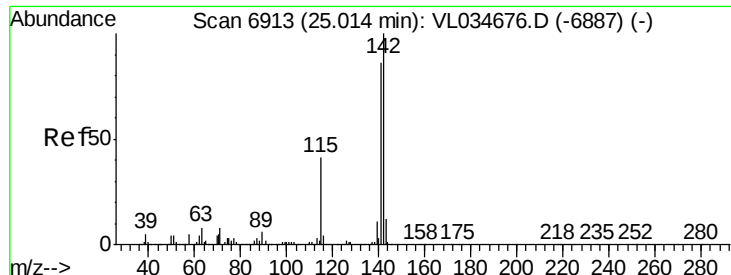
Tgt Ion:146 Resp: 6246  
Ion Ratio Lower Upper  
146 100  
111 290.8 23.4 70.0#  
148 285.8 31.9 95.5#



#79  
Naphthalene  
Concen: 0.103 ppbv  
RT: 22.27 min Scan# 6061  
Delta R.T. 0.01 min  
Lab File: VL034720.D  
Acq: 27 Feb 2020 22:34

Tgt Ion:128 Resp: 25843  
Ion Ratio Lower Upper  
128 100  
127 12.1 11.0 16.6  
129 13.8 9.4 14.2





#80

Naphthalene, 2-methyl-

Concen: 0.078 ppbv

RT: 25.03 min Scan# 6918

Delta R.T. 0.02 min

Lab File: VL034720.D

Acq: 27 Feb 2020 22:34

Instrument :

MSVOA\_L

ClientSampleId :

SG-1-MAIN-ELECT-RM

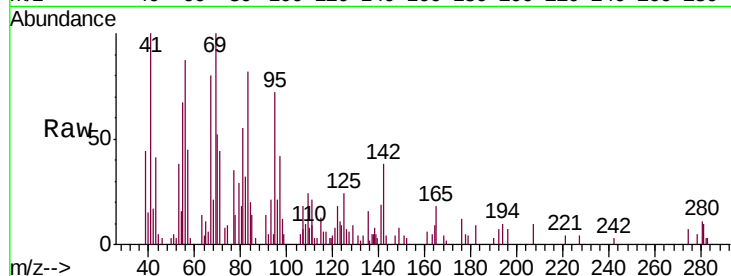
Tgt Ion:142 Resp: 6080

Ion Ratio Lower Upper

142 100

141 93.3 66.5 99.7

115 69.4 30.6 46.0#



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

