

Data Path : W:\HPCHEM1\MSVOA\_L\DATA\VL122017\  
 Data File : VL031283.D  
 Acq On : 20 Dec 2017 23:59  
 Operator : SY/AP  
 Sample : I7005-06  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-5

Quant Time: Dec 21 08:41:34 2017

Quant Method : W:\HPCHEM1\MSVOA\_L\METHODS\VL121317AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Dec 14 04:29:58 2017

QLast Update : Thu Dec 14 04:29:58 2017

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.92  | 49   | 1585391  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.46  | 114  | 3705028  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.42 | 117  | 3413764  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.75  | 95    | 2759685  | 11.37    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 113.70% |

#### Target Compounds

|                             |       |     |          |        |        | Qvalue |
|-----------------------------|-------|-----|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane  | 3.18  | 85  | 63058    | 0.47   | ppbv   | 97     |
| 3) Chlorodifluoromethane    | 3.16  | 51  | 3180035  | 17.64  | ppbv # | 62     |
| 4) Chloromethane            | 3.28  | 50  | 38523    | 0.40   | ppbv   | 97     |
| 5) Vinyl Chloride           | 3.40  | 62  | 3085     | 0.03   | ppbv # | 32     |
| 7) Chloroethane             | 3.72  | 64  | 1131     | 0.03   | ppbv   | 93     |
| 9) Propene                  | 3.14  | 41  | 1589913  | 17.97  | ppbv   | 98     |
| 10) Heptane                 | 8.41  | 43  | 353432   | 1.31   | ppbv   | 98     |
| 11) Trichlorofluoromethane  | 4.13  | 101 | 409078   | 1.86   | ppbv   | 96     |
| 13) Ethanol                 | 3.77  | 45  | 131770   | 5.16   | ppbv   | 99     |
| 15) Acetone                 | 4.02  | 43  | 3912973  | 18.70  | ppbv # | 72     |
| 16) 1,3-Butadiene           | 3.45  | 39  | 2677905  | 29.75  | ppbv # | 14     |
| 17) tert-Butyl alcohol      | 4.51  | 59  | 186058   | 1.58   | ppbv # | 73     |
| 19) Isopropyl Alcohol       | 4.19  | 45  | 186231   | 1.41   | ppbv # | 41     |
| 20) Methylene Chloride      | 4.54  | 84  | 184995   | 2.67   | ppbv   | 96     |
| 21) Allyl Chloride          | 4.57  | 41  | 33289    | 0.27   | ppbv # | 1      |
| 23) Vinyl Acetate           | 5.33  | 43  | 234255   | 0.69   | ppbv # | 47     |
| 25) Ethyl Acetate           | 5.93  | 43  | 336339   | 0.79   | ppbv # | 81     |
| 26) Hexane                  | 5.93  | 57  | 450151   | 2.22   | ppbv # | 37     |
| 27) Carbon Disulfide        | 4.76  | 76  | 1435220  | 7.07   | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether | 5.26  | 73  | 37492    | 0.14   | ppbv # | 1      |
| 29) Chloroform              | 6.00  | 83  | 81471    | 0.30   | ppbv   | 95     |
| 30) Cyclohexane             | 7.41  | 84  | 111276   | 0.62   | ppbv # | 73     |
| 31) cis-1,2-Dichloroethene  | 5.79  | 61  | 101084   | 0.55   | ppbv   | 90     |
| 34) 2-Butanone              | 5.47  | 43  | 10693534 | 40.87  | ppbv   | 95     |
| 35) Carbon Tetrachloride    | 7.30  | 117 | 18473    | 0.07   | ppbv # | 88     |
| 36) Benzene                 | 7.17  | 78  | 633190   | 1.61   | ppbv   | 100    |
| 38) Trichloroethene         | 8.13  | 130 | 2071036  | 13.52  | ppbv   | 98     |
| 39) 1,2-Dichloropropane     | 8.12  | 63  | 10402    | 0.07   | ppbv # | 1      |
| 41) Tetrahydrofuran         | 6.31  | 42  | 21781    | 0.15   | ppbv # | 27     |
| 43) Methyl Methacrylate     | 8.27  | 69  | 4881     | 0.04   | ppbv # | 56     |
| 44) 2,2,4-Trimethylpentane  | 8.15  | 57  | 306281   | 0.52   | ppbv # | 57     |
| 51) 2-Hexanone              | 10.45 | 43  | 1172650  | 3.84   | ppbv # | 97     |
| 52) Tetrachloroethene       | 11.58 | 164 | 20234477 | 139.67 | ppbv   | 94     |
| 53) Toluene                 | 10.12 | 91  | 1899002  | 4.46   | ppbv   | 98     |
| 57) Chlorobenzene           | 12.49 | 112 | 13201    | 0.04   | ppbv # | 38     |
| 58) Ethyl Benzene           | 13.04 | 91  | 358115   | 0.64   | ppbv   | 97     |
| 59) m/p-Xylene              | 13.30 | 91  | 684667   | 1.52   | ppbv   | 96     |
| 60) o-Xylene                | 14.03 | 91  | 434747   | 0.96   | ppbv   | 99     |
| 61) Styrene                 | 13.86 | 104 | 61467    | 0.47   | ppbv # | 88     |
| 62) Isopropylbenzene        | 15.00 | 105 | 84505    | 0.14   | ppbv   | 98     |
| 64) n-propylbenzene         | 16.10 | 120 | 51818    | 0.33   | ppbv   | 68     |

Data Path : W:\HPCHEM1\MSVOA\_L\DATA\VL122017\  
Data File : VL031283.D  
Acq On : 20 Dec 2017 23:59  
Operator : SY/AP  
Sample : I7005-06  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

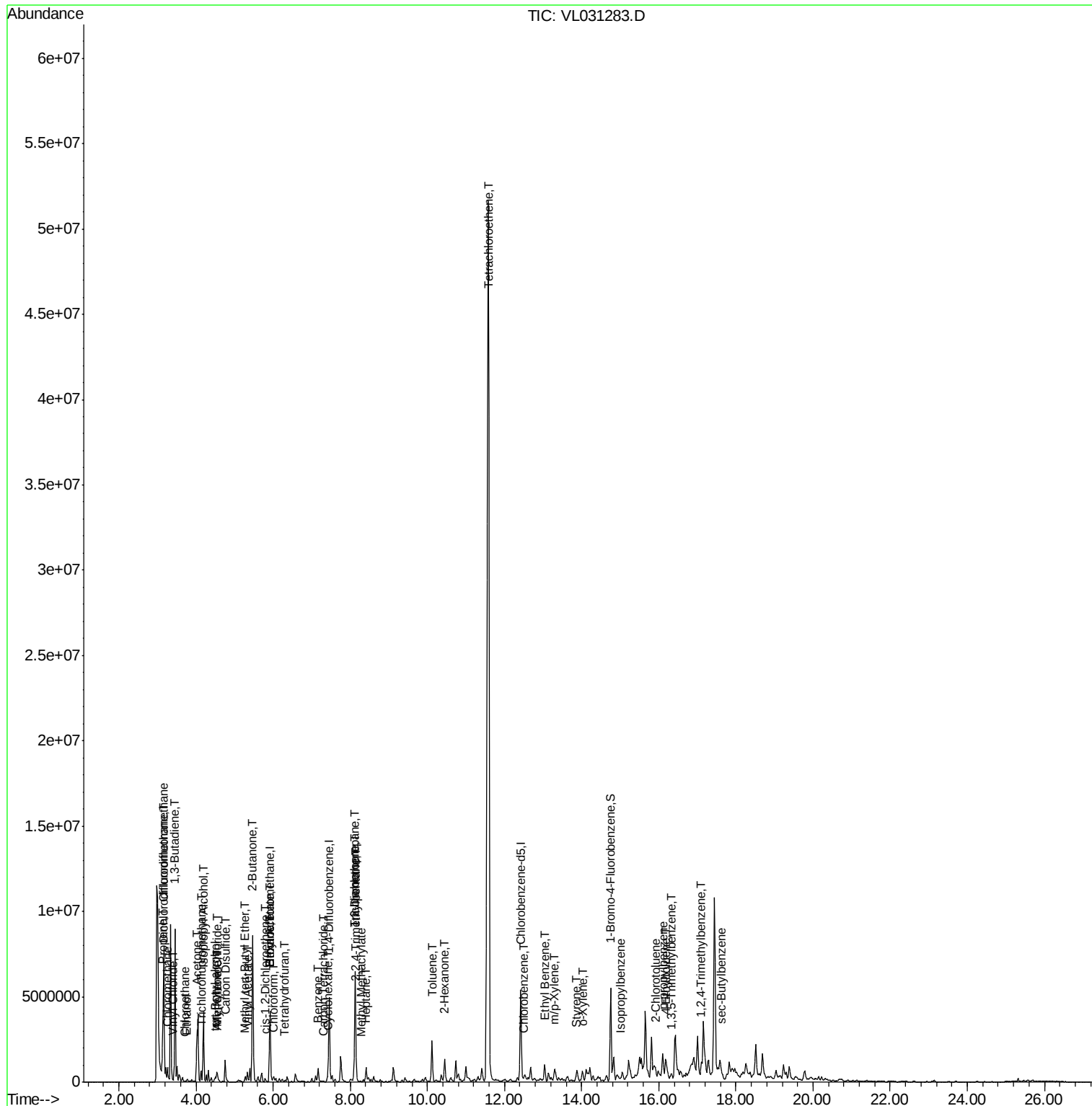
Quant Time: Dec 21 08:41:34 2017  
Quant Method : W:\HPCHEM1\MSVOA\_L\METHODS\VL121317AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Dec 14 04:29:58 2017  
QLast Update : Thu Dec 14 04:29:58 2017  
Response via : Initial Calibration

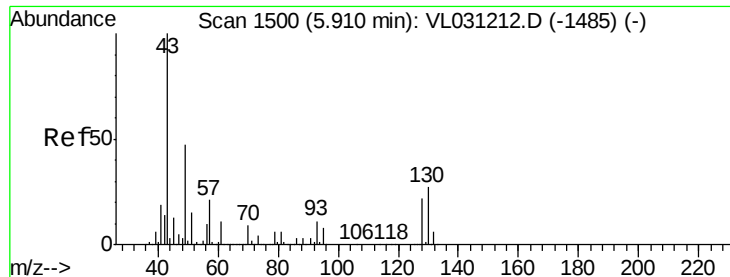
| Internal Standards         | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|----------------------------|-------|------|----------|------|--------|----------|
| 67) sec-Butylbenzene       | 17.63 | 105  | 47728    | 0.07 | ppbv   | 100      |
| 71) 2-Chlorotoluene        | 15.90 | 91   | 54238    | 0.12 | ppbv   | 87       |
| 72) 4-Ethyltoluene         | 16.17 | 105  | 79986    | 0.16 | ppbv # | 82       |
| 73) 1,3,5-Trimethylbenzene | 16.33 | 105  | 117326   | 0.26 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene | 17.10 | 105  | 130023   | 0.28 | ppbv # | 75       |

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

```
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Data File : VL031283.D  
Acq On    : 20 Dec 2017  23:59  
Operator  : SY/AP  
Sample    : I7005-06  
Misc      : 400ml/MSVOA_L  
ALS Vial  : 1      Sample Multiplier: 1
```

Quant Time: Dec 21 08:41:34 2017  
Quant Method : W:\HPCHEM1\MSVOA\_L\METHODS\VL121317AIR.M  
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QLast Update : Thu Dec 14 04:29:58 2017  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.92 min Scan# 1502

Delta R.T. 0.01 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

EP1-SV-5

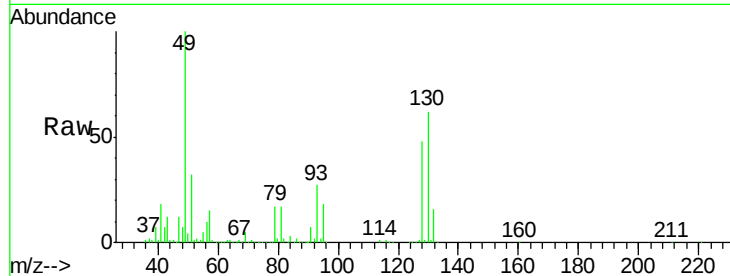
Tgt Ion: 49 Resp: 1585391

Ion Ratio Lower Upper

49 100

128 48.2 23.2 69.5

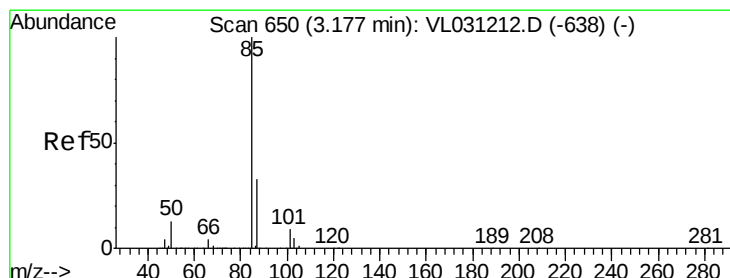
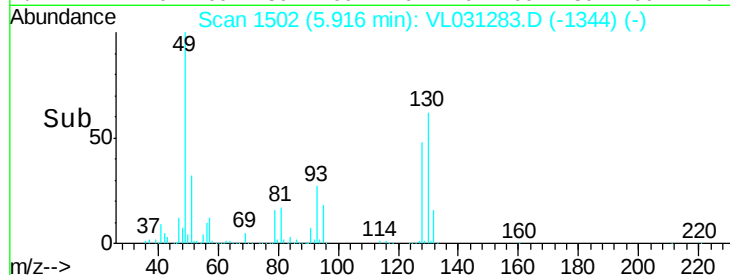
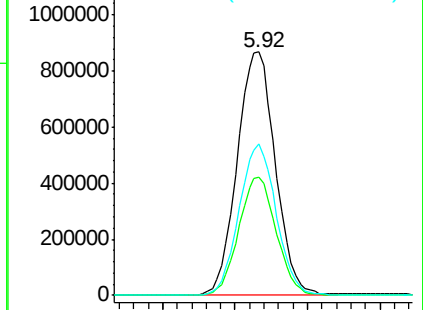
130 61.2 29.6 88.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.47 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031283.D

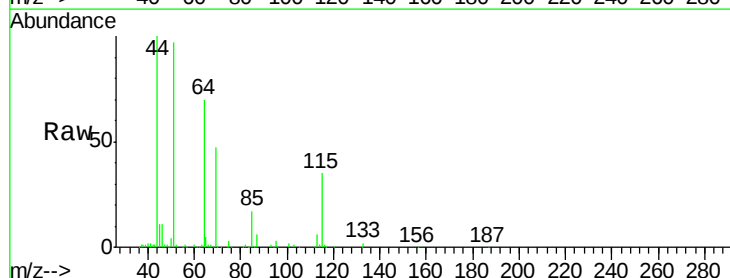
Acq: 20 Dec 2017 23:59

Tgt Ion: 85 Resp: 63058

Ion Ratio Lower Upper

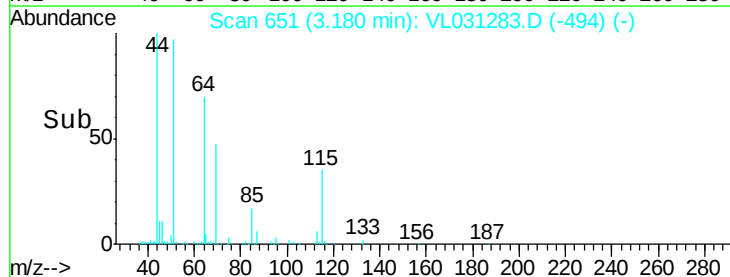
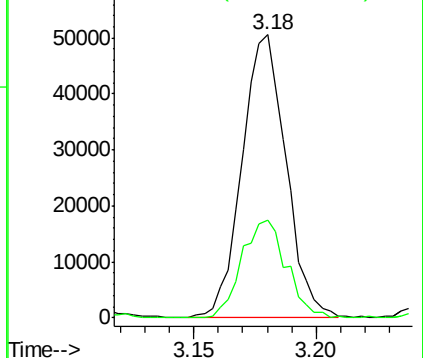
85 100

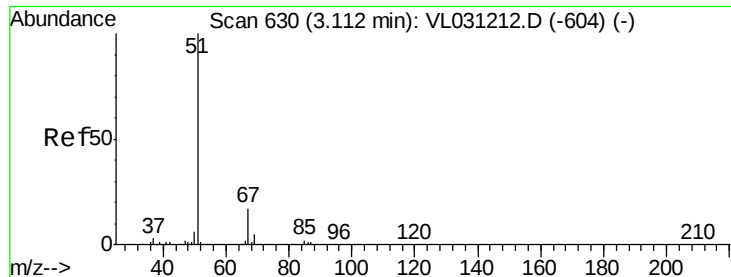
87 34.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 17.64 ppbv

RT: 3.16 min Scan# 645

Delta R.T. 0.05 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

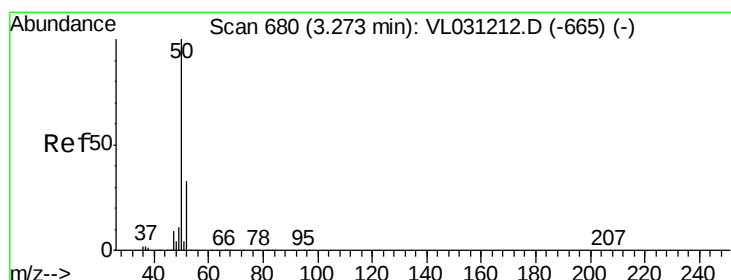
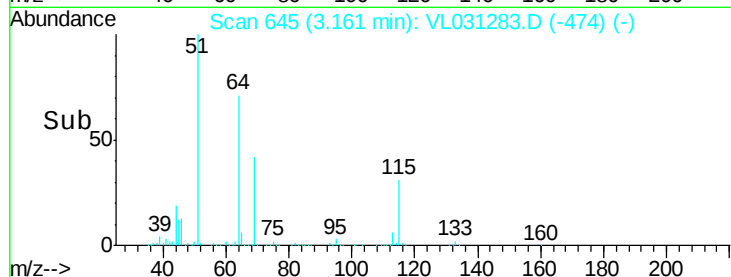
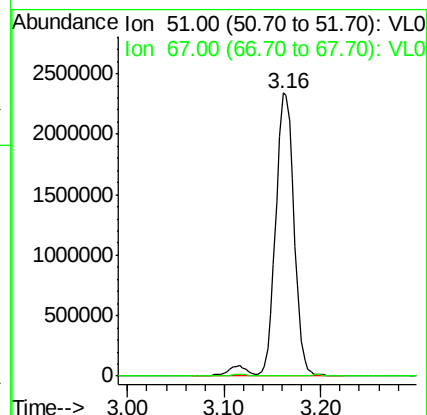
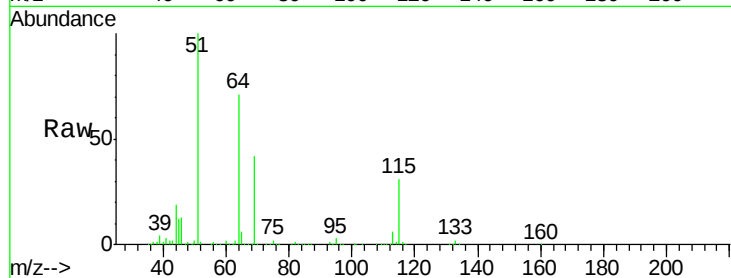
EP1-SV-5

Tgt Ion: 51 Resp: 3180035

Ion Ratio Lower Upper

51 100

67 0.4 13.8 20.6#



#4

Chloromethane

Concen: 0.40 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031283.D

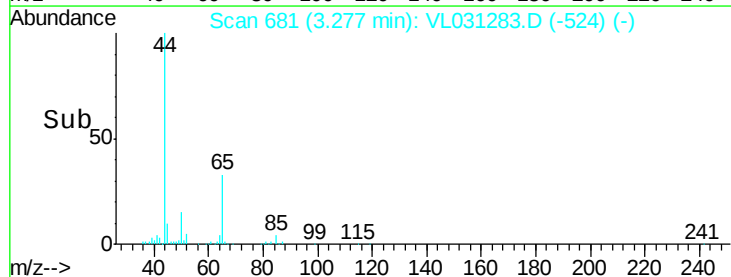
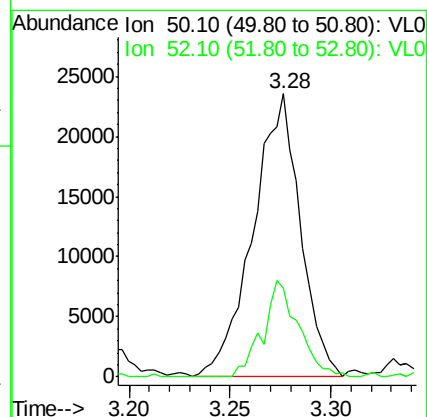
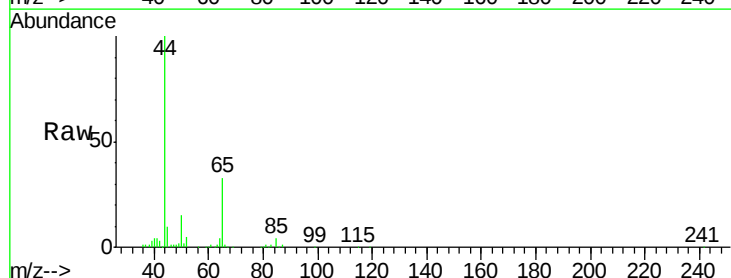
Acq: 20 Dec 2017 23:59

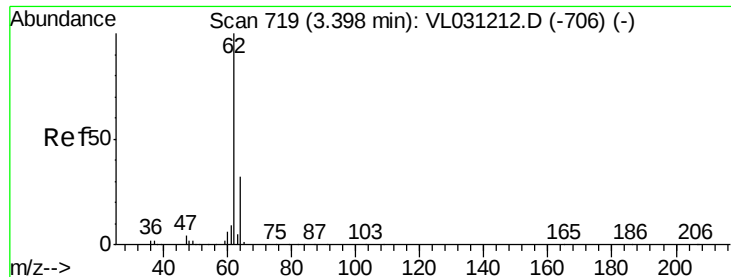
Tgt Ion: 50 Resp: 38523

Ion Ratio Lower Upper

50 100

52 31.5 26.5 39.7





#5

Vinyl Chloride

Concen: 0.03 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

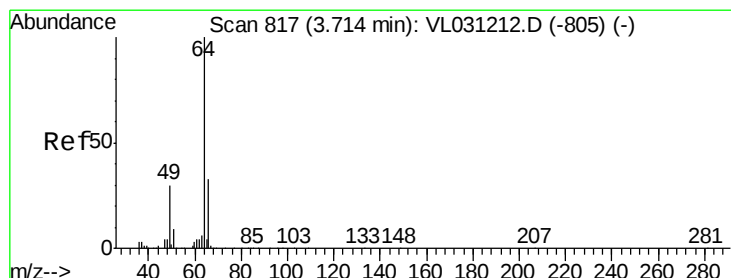
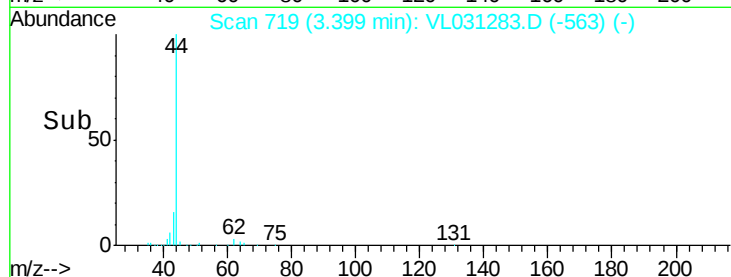
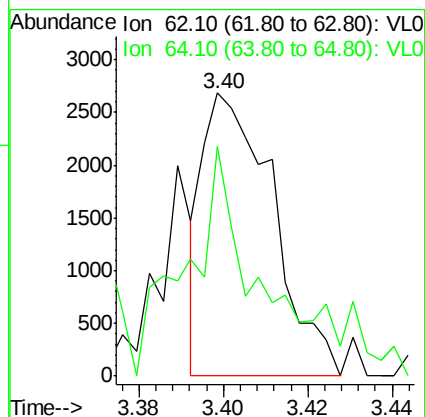
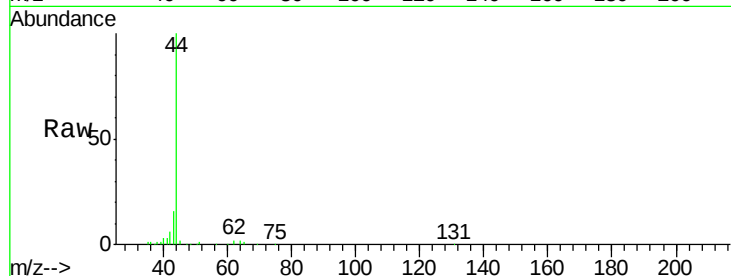
EP1-SV-5

Tgt Ion: 62 Resp: 3085

Ion Ratio Lower Upper

62 100

64 70.6 25.9 38.9#



#7

Chloroethane

Concen: 0.03 ppbv

RT: 3.72 min Scan# 819

Delta R.T. 0.01 min

Lab File: VL031283.D

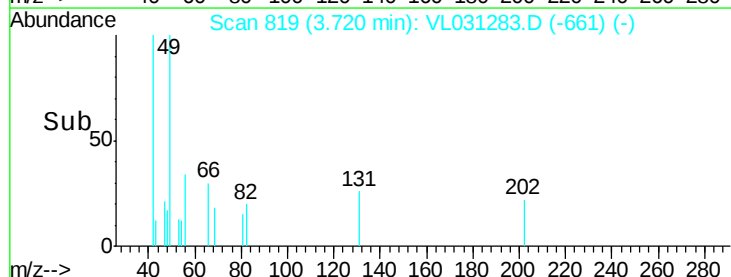
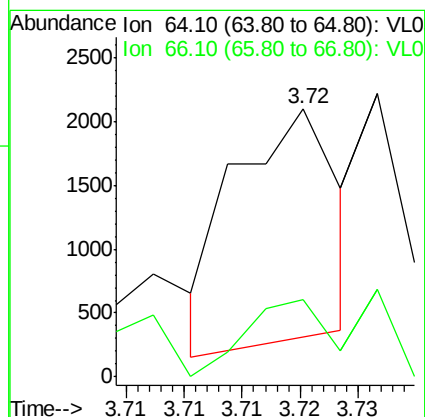
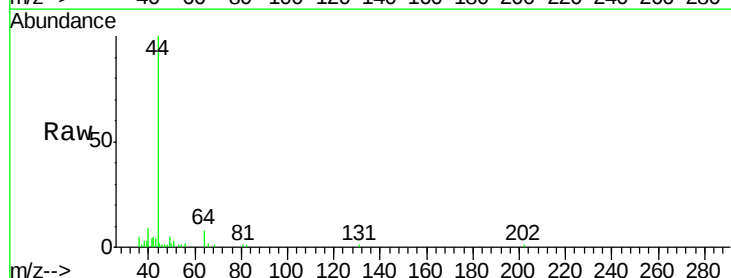
Acq: 20 Dec 2017 23:59

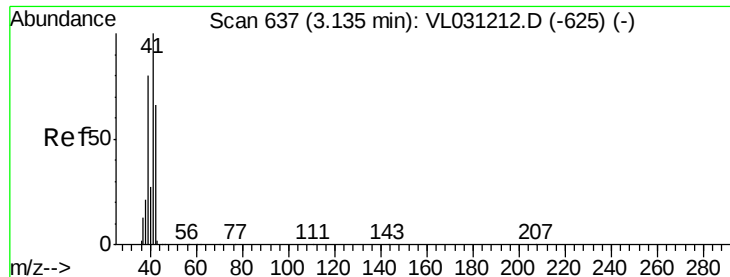
Tgt Ion: 64 Resp: 1131

Ion Ratio Lower Upper

64 100

66 29.0 26.2 39.2





#9

Propene

Concen: 17.97 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

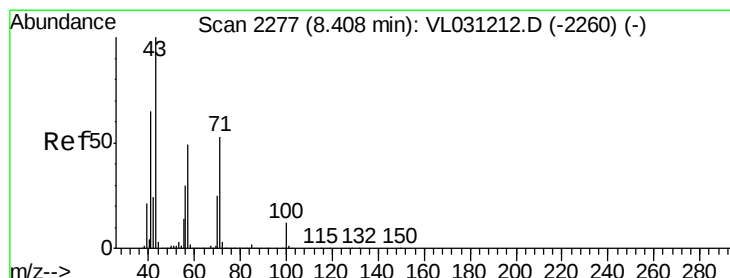
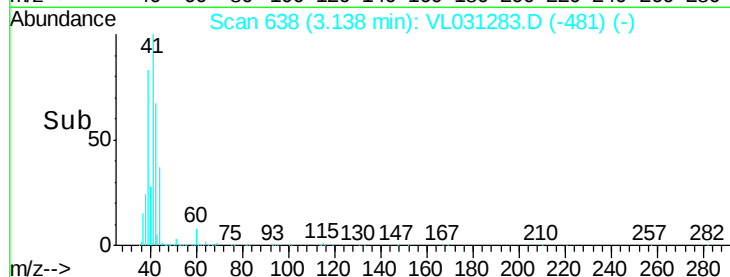
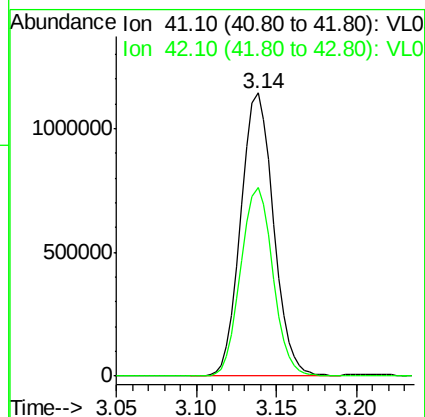
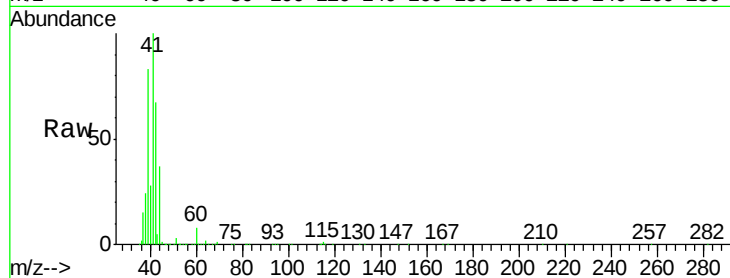
EP1-SV-5

Tgt Ion: 41 Resp: 1589913

Ion Ratio Lower Upper

41 100

42 65.9 54.3 81.5



#10

Heptane

Concen: 1.31 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031283.D

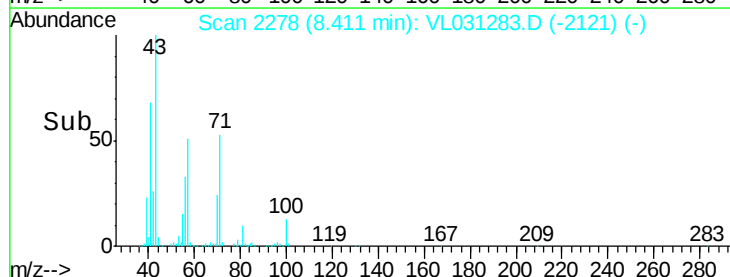
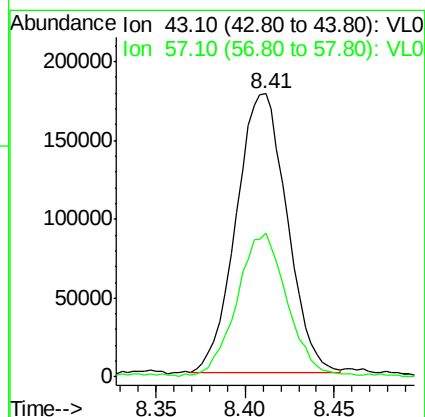
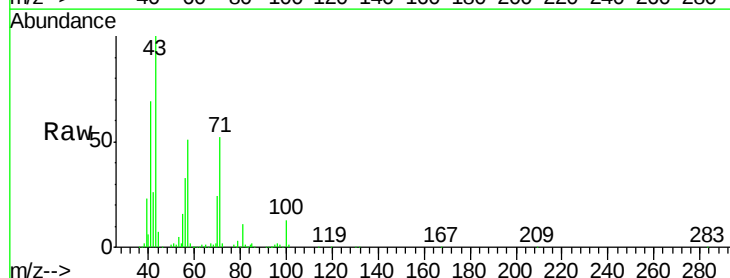
Acq: 20 Dec 2017 23:59

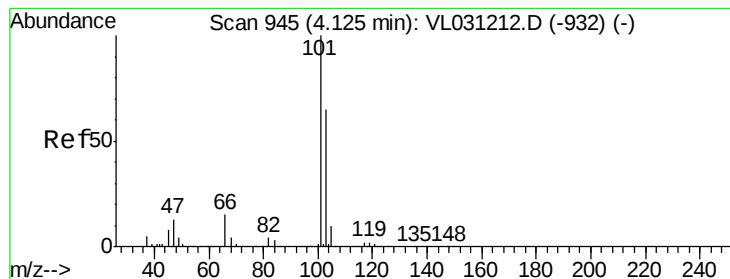
Tgt Ion: 43 Resp: 353432

Ion Ratio Lower Upper

43 100

57 50.9 39.8 59.8





#11

Trichlorofluoromethane

Concen: 1.86 ppbv

RT: 4.13 min Scan# 947

Delta R.T. 0.01 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

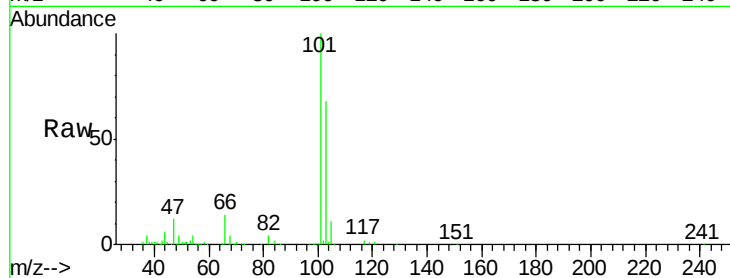
EP1-SV-5

Tgt Ion:101 Resp: 409078

Ion Ratio Lower Upper

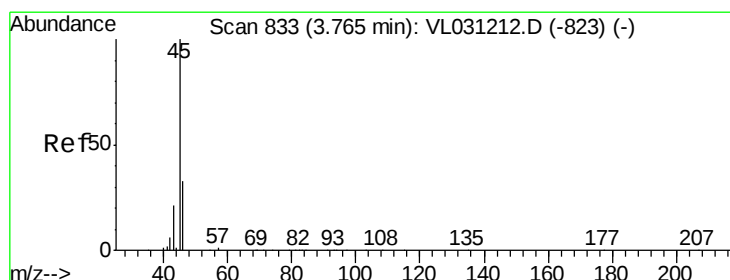
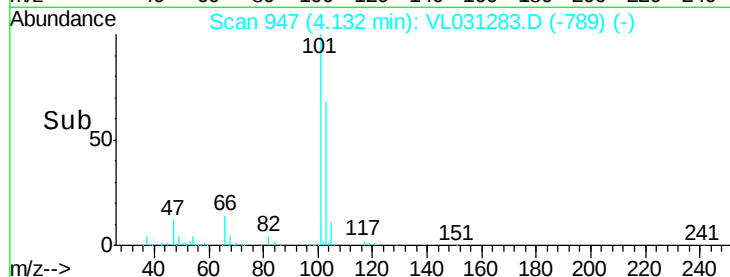
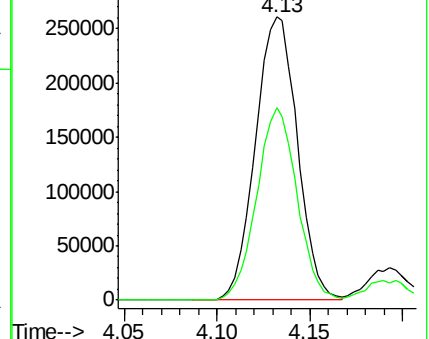
101 100

103 67.9 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 5.16 ppbv

RT: 3.77 min Scan# 835

Delta R.T. 0.01 min

Lab File: VL031283.D

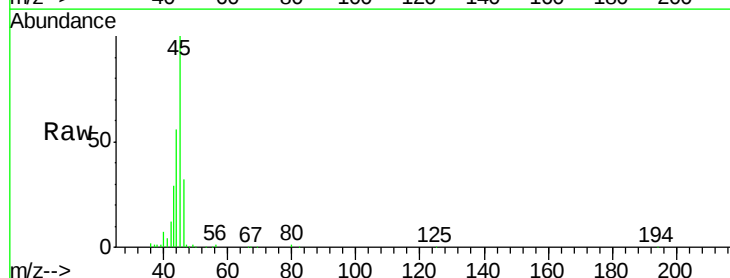
Acq: 20 Dec 2017 23:59

Tgt Ion: 45 Resp: 131770

Ion Ratio Lower Upper

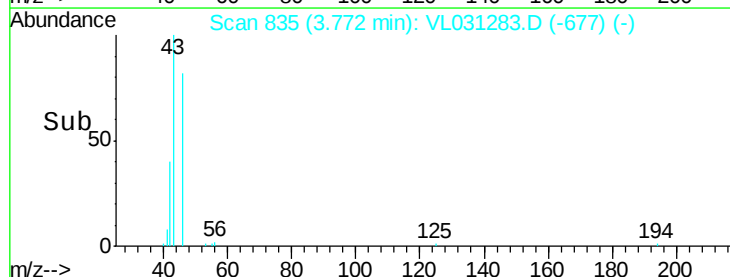
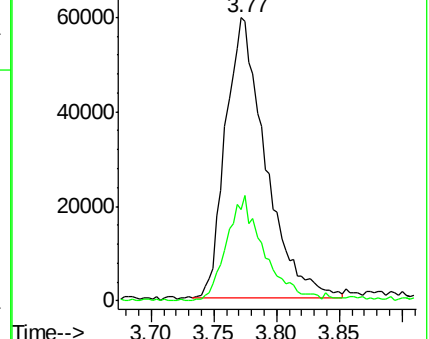
45 100

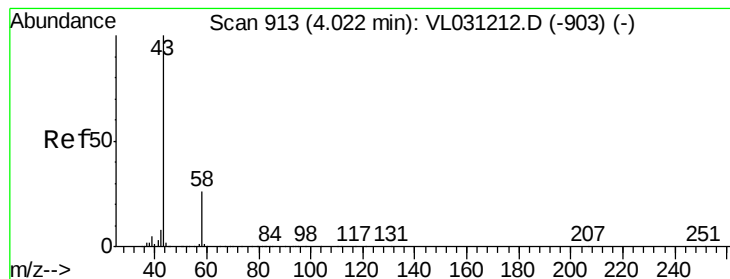
46 36.8 14.6 58.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 18.70 ppbv

RT: 4.02 min Scan# 913

Delta R.T. 0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

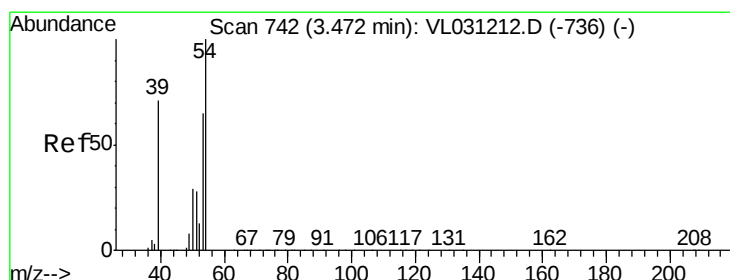
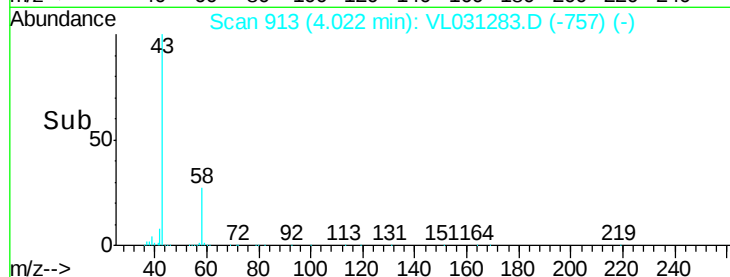
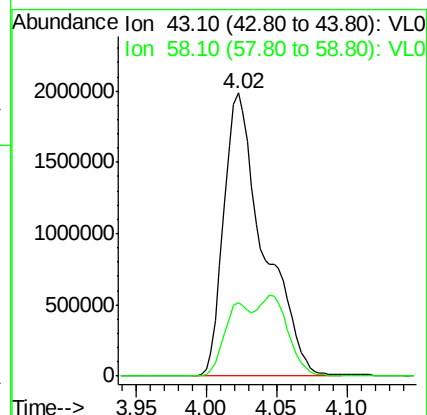
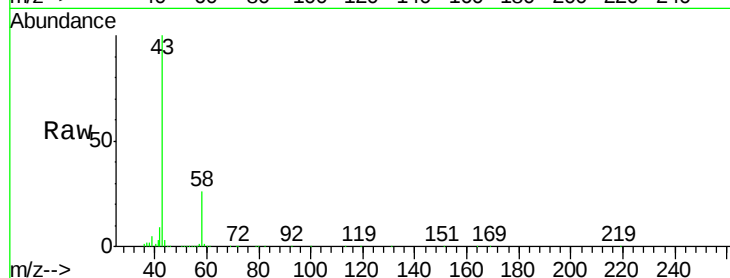
EP1-SV-5

Tgt Ion: 43 Resp: 3912973

Ion Ratio Lower Upper

43 100

58 39.7 20.3 30.5#



#16

1,3-Butadiene

Concen: 29.75 ppbv

RT: 3.45 min Scan# 736

Delta R.T. -0.02 min

Lab File: VL031283.D

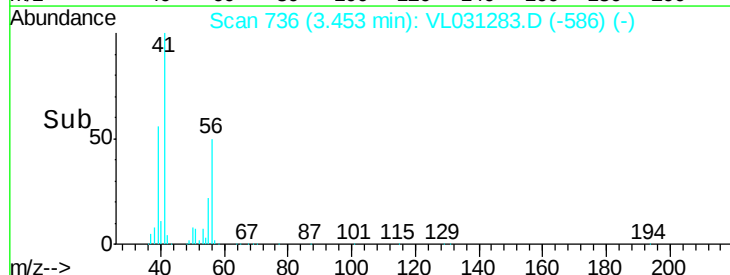
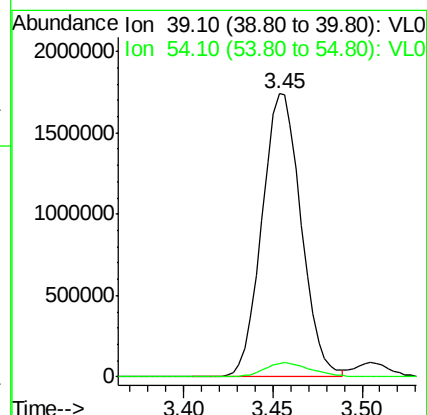
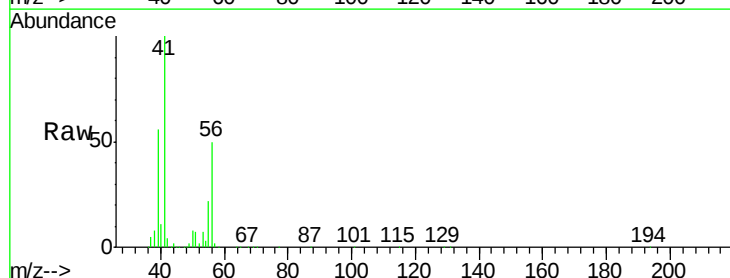
Acq: 20 Dec 2017 23:59

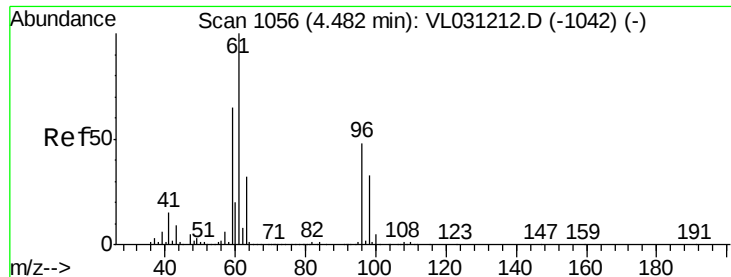
Tgt Ion: 39 Resp: 2677905

Ion Ratio Lower Upper

39 100

54 5.9 66.4 99.6#



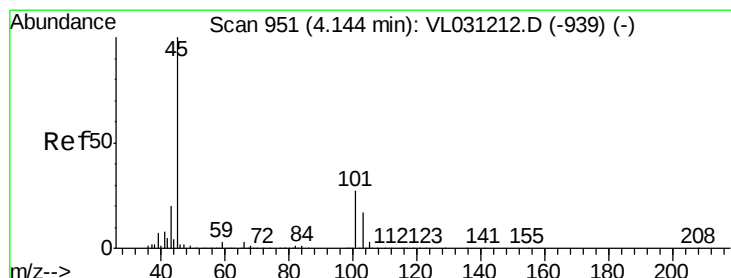
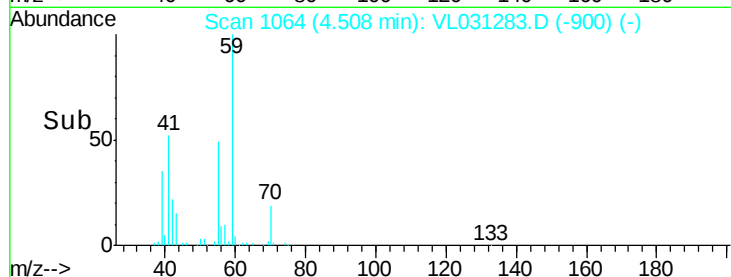
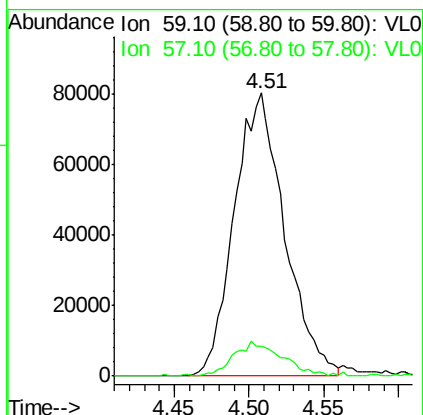
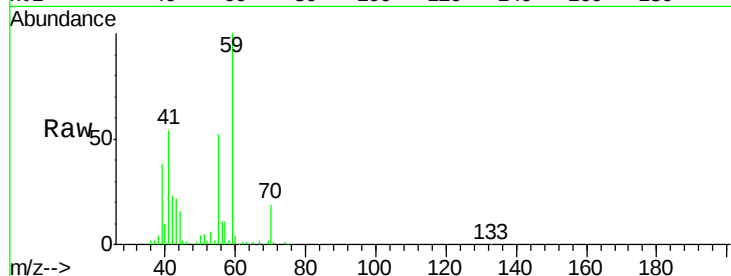


#17

tert-Butyl alcohol  
 Concen: 1.58 ppbv  
 RT: 4.51 min Scan# 1064  
 Delta R.T. 0.03 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-5

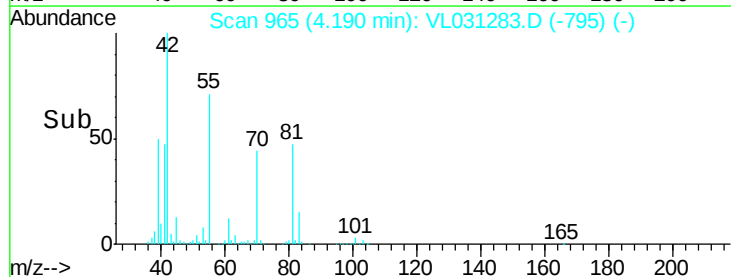
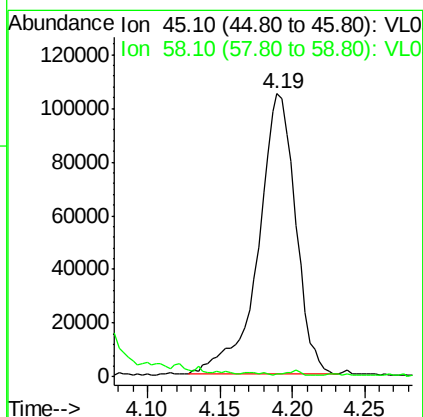
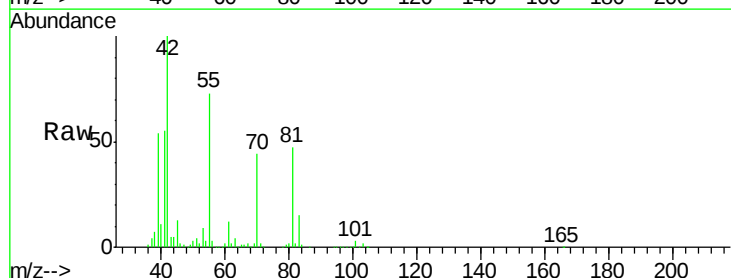
Tgt Ion: 59 Resp: 186058  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.2#

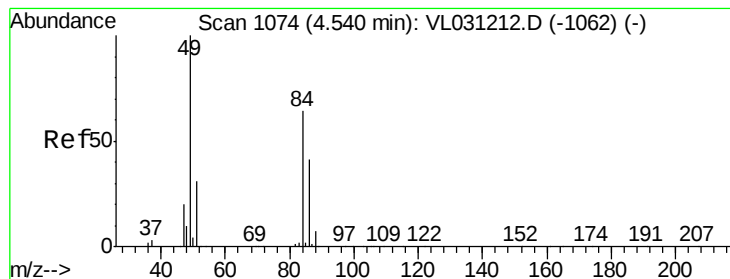


#19

Isopropyl Alcohol  
 Concen: 1.41 ppbv  
 RT: 4.19 min Scan# 965  
 Delta R.T. 0.05 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

Tgt Ion: 45 Resp: 186231  
 Ion Ratio Lower Upper  
 45 100  
 58 0.0 27.2 40.8#

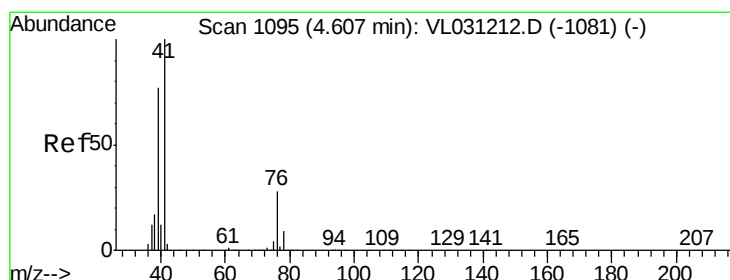
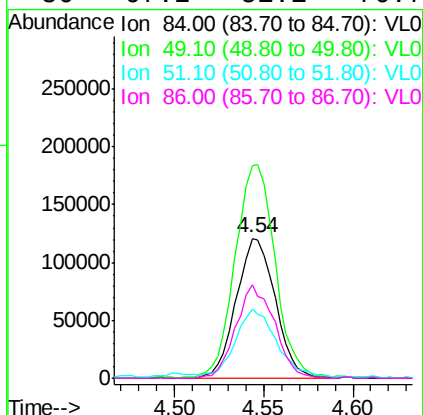
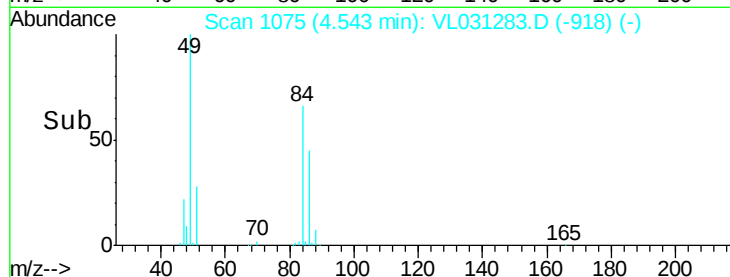
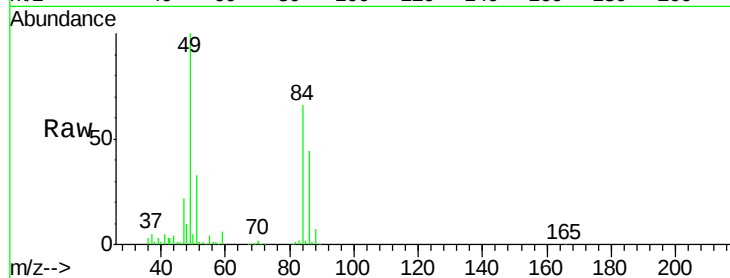




#20  
Methylene Chloride  
Concen: 2.67 ppbv  
RT: 4.54 min Scan# 1075  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

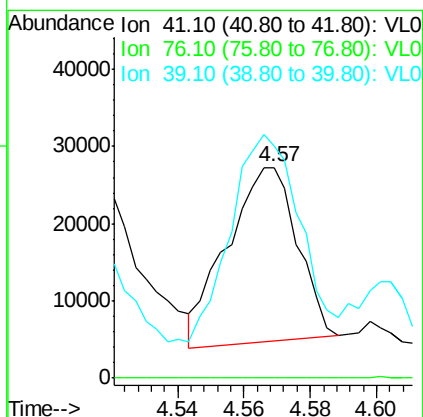
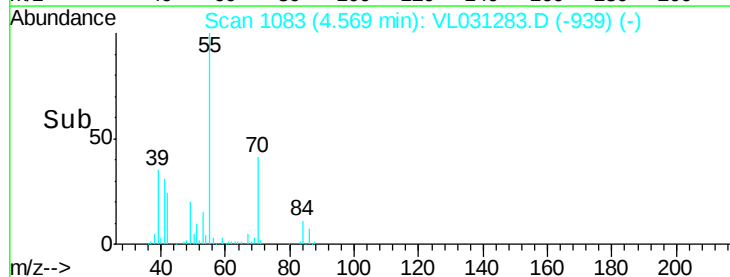
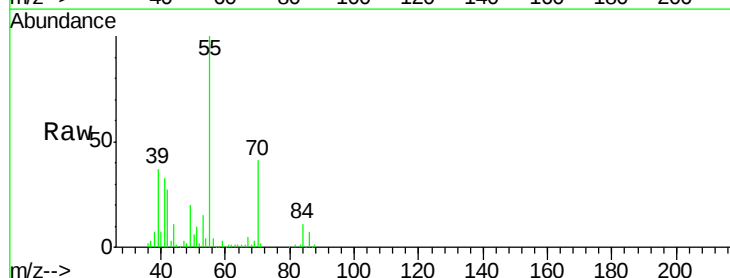
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

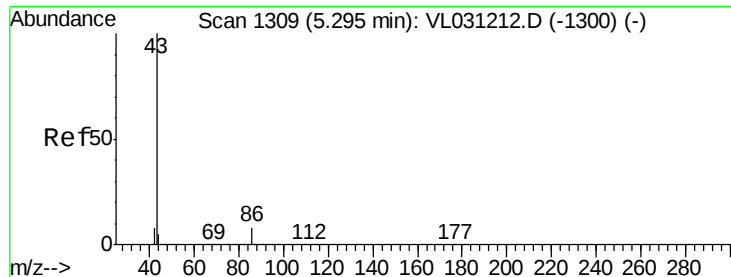
Tgt Ion: 84 Resp: 184995  
Ion Ratio Lower Upper  
84 100  
49 151.2 125.8 188.6  
51 48.9 39.3 58.9  
86 67.2 51.1 76.7



#21  
Allyl Chloride  
Concen: 0.27 ppbv  
RT: 4.57 min Scan# 1083  
Delta R.T. -0.04 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

Tgt Ion: 41 Resp: 33289  
Ion Ratio Lower Upper  
41 100  
76 0.0 22.9 34.3#  
39 196.6 62.6 93.8#





#23

Vinyl Acetate

Concen: 0.69 ppbv

RT: 5.33 min Scan# 1320

Delta R.T. 0.04 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

EP1-SV-5

Tgt Ion: 43 Resp: 234255

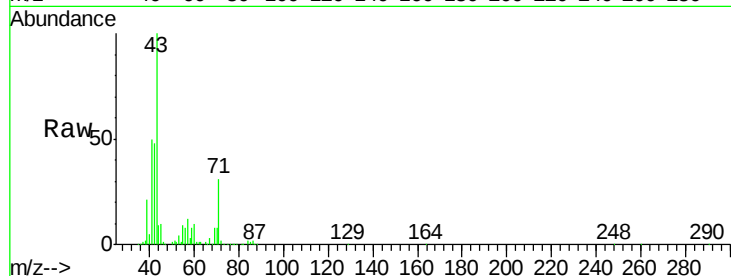
Ion Ratio Lower Upper

43 100

86 2.3 5.9 8.9#

42 48.4 7.3 10.9#

44 3.6 3.7 5.5#

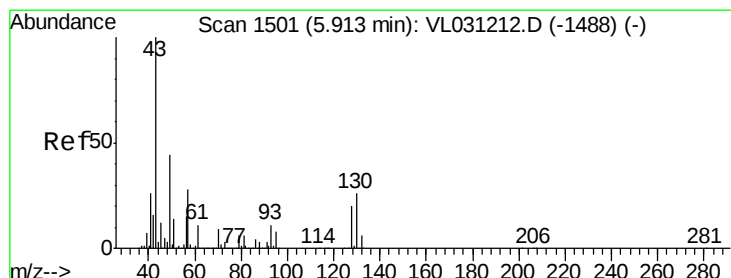
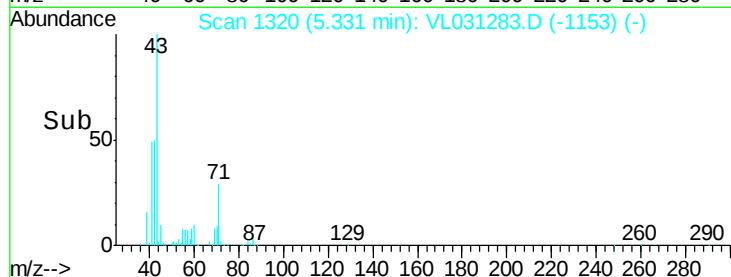
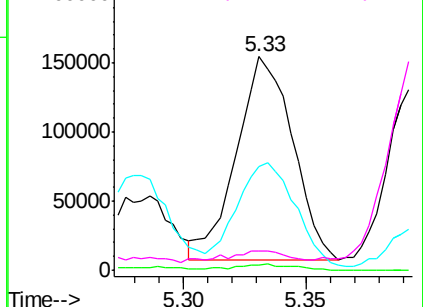


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.79 ppbv

RT: 5.93 min Scan# 1506

Delta R.T. 0.02 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Tgt Ion: 43 Resp: 336339

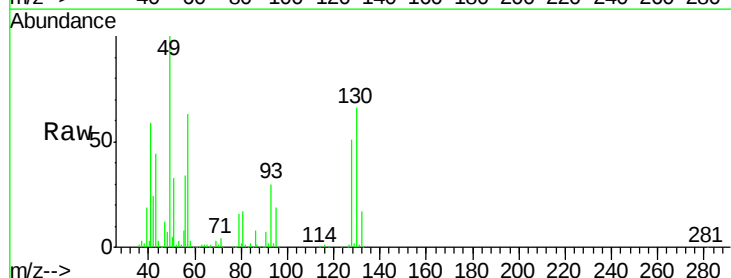
Ion Ratio Lower Upper

43 100

45 3.3 8.0 12.0#

61 0.0 7.4 11.0#

70 3.2 5.8 8.8#

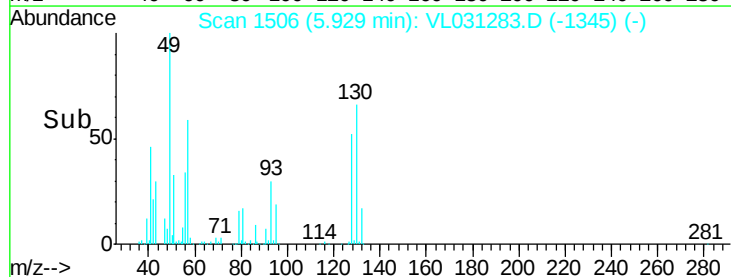
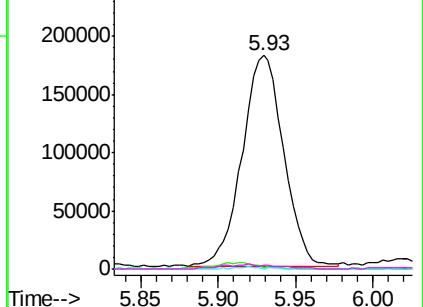


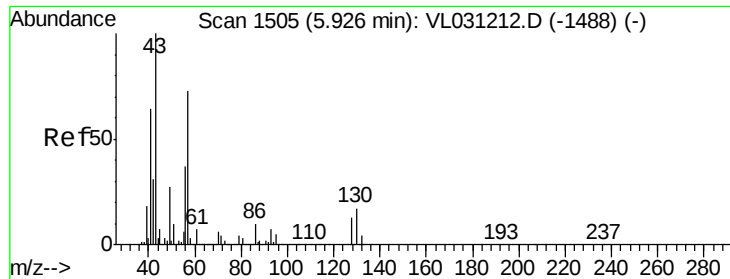
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

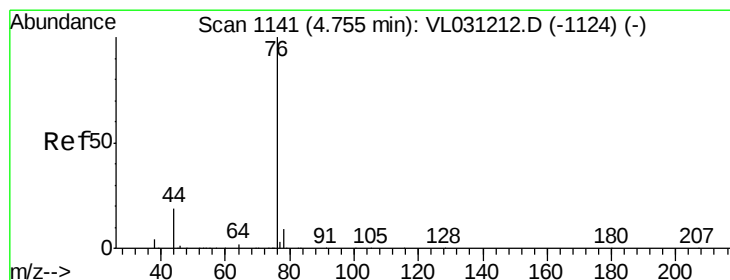
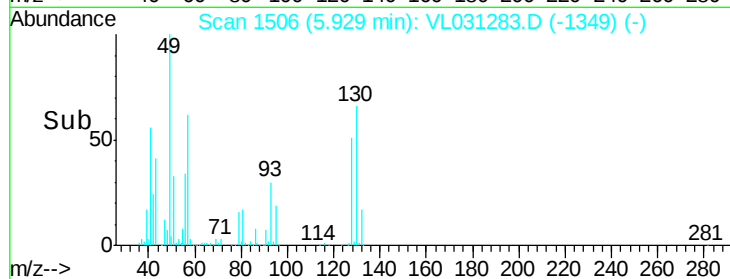
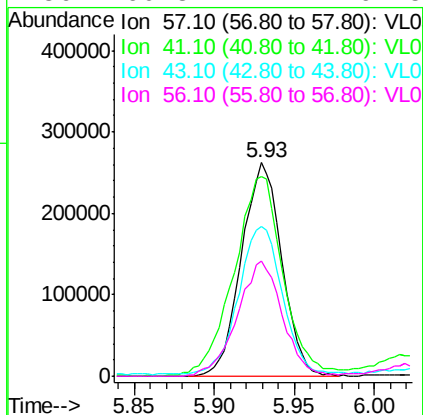
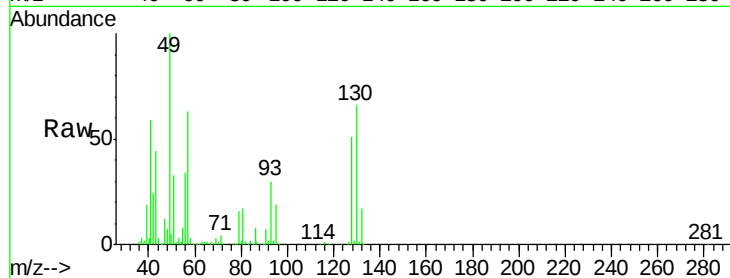




#26  
Hexane  
Concen: 2.22 ppbv  
RT: 5.93 min Scan# 1506  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

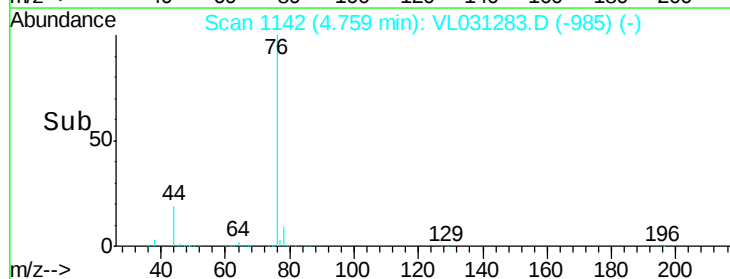
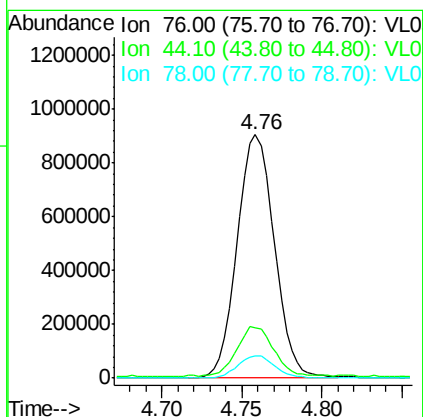
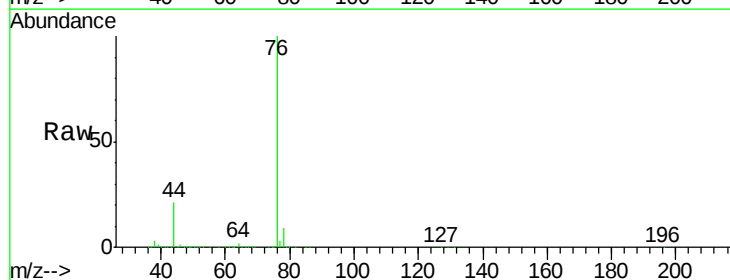
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

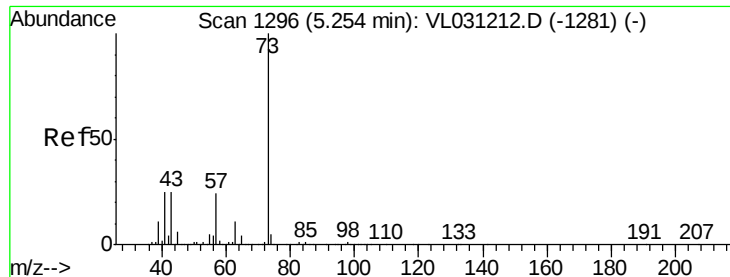
Tgt Ion: 57 Resp: 450151  
Ion Ratio Lower Upper  
57 100  
41 114.5 70.3 105.5#  
43 75.2 173.8 260.8#  
56 60.8 41.7 62.5



#27  
Carbon Disulfide  
Concen: 7.07 ppbv  
RT: 4.76 min Scan# 1142  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

Tgt Ion: 76 Resp: 1435220  
Ion Ratio Lower Upper  
76 100  
44 20.6 16.0 24.0  
78 9.2 7.5 11.3

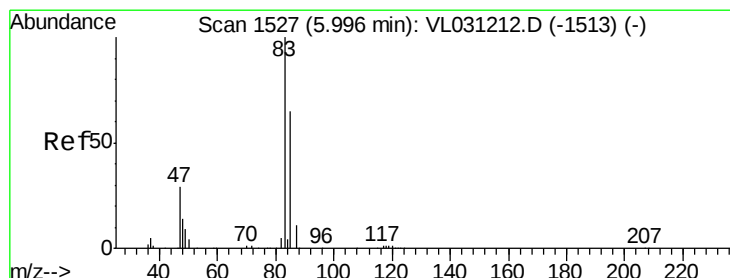
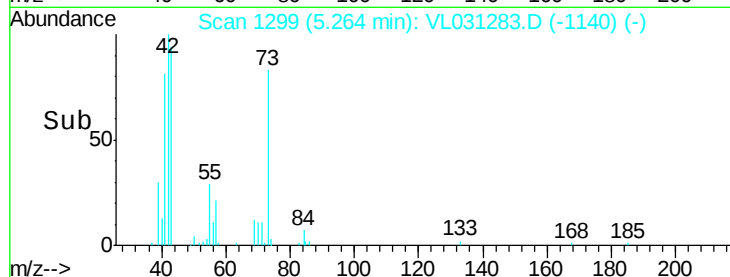
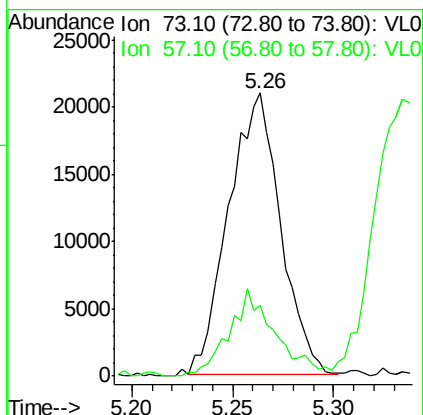
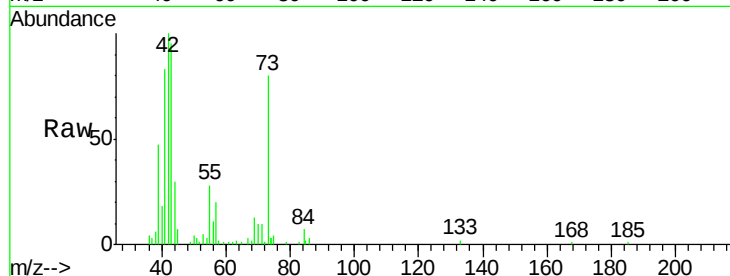




#28  
Methyl tert-Butyl Ether  
Concen: 0.14 ppbv  
RT: 5.26 min Scan# 1299  
Delta R.T. 0.01 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

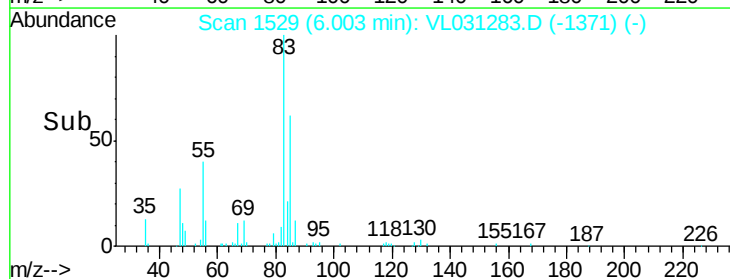
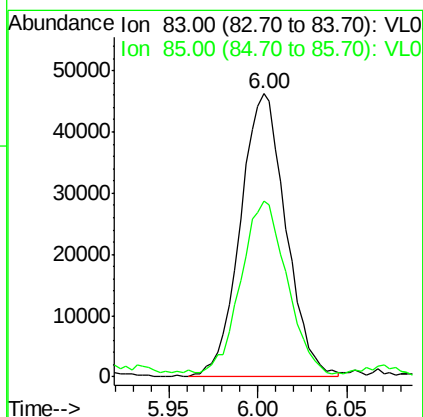
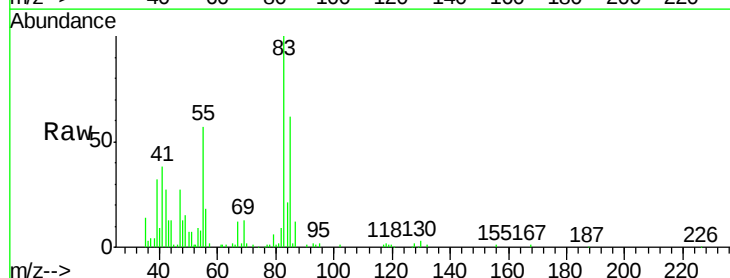
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

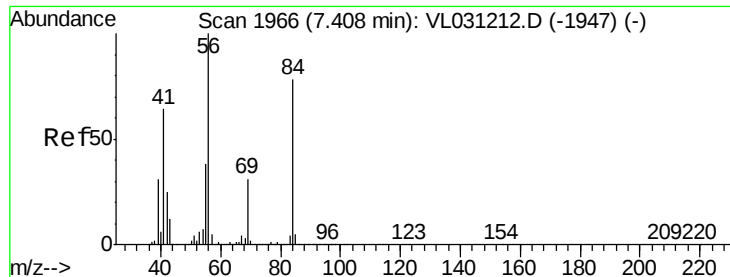
Tgt Ion: 73 Resp: 37492  
Ion Ratio Lower Upper  
73 100  
57 95.7 18.5 27.7#



#29  
Chloroform  
Concen: 0.30 ppbv  
RT: 6.00 min Scan# 1529  
Delta R.T. 0.01 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

Tgt Ion: 83 Resp: 81471  
Ion Ratio Lower Upper  
83 100  
85 60.6 51.8 77.6

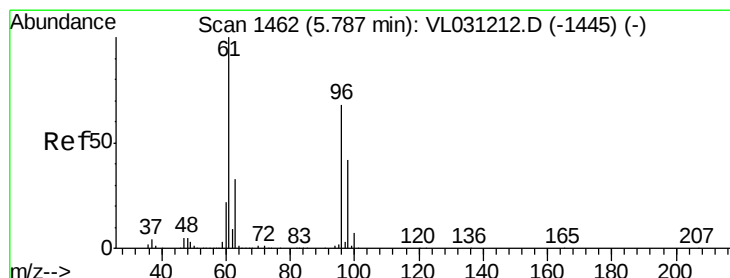
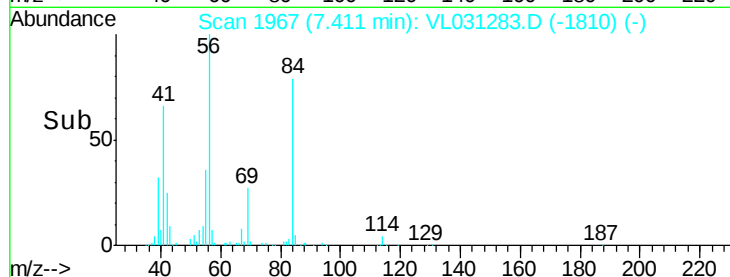
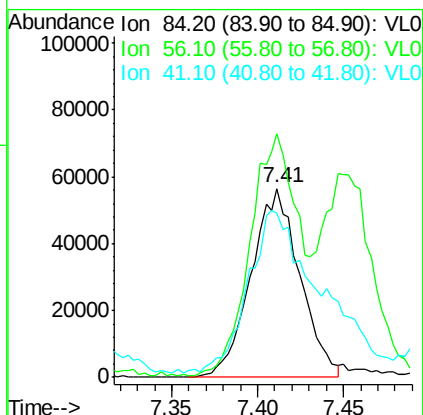
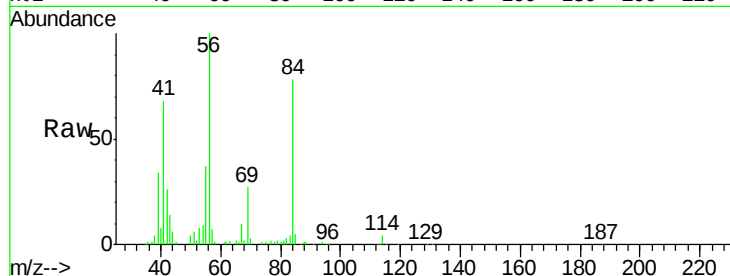




#30  
Cyclohexane  
Concen: 0.62 ppbv  
RT: 7.41 min Scan# 1967  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

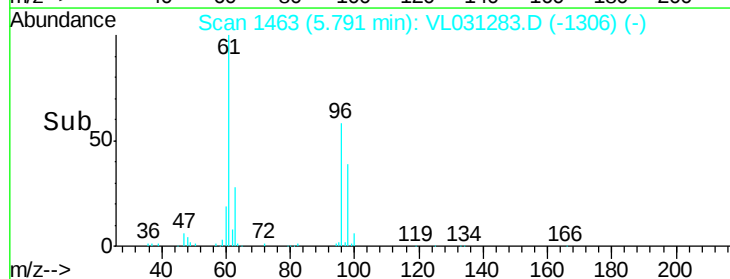
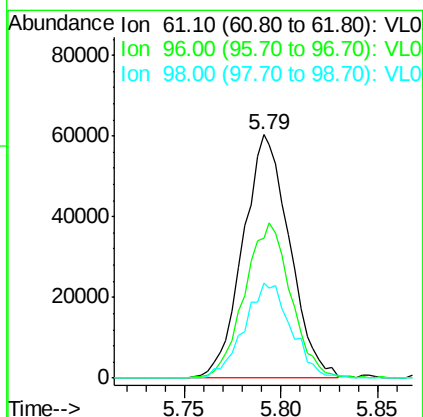
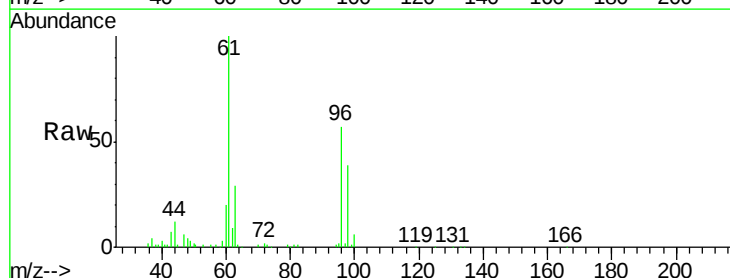
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

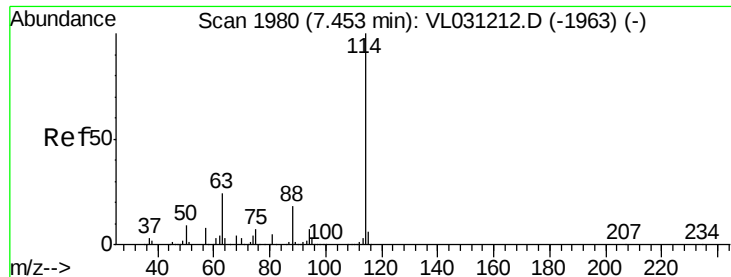
Tgt Ion: 84 Resp: 111276  
Ion Ratio Lower Upper  
84 100  
56 122.5 108.0 162.0  
41 131.8 66.2 99.4#



#31  
cis-1,2-Dichloroethene  
Concen: 0.55 ppbv  
RT: 5.79 min Scan# 1463  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

Tgt Ion: 61 Resp: 101084  
Ion Ratio Lower Upper  
61 100  
96 57.5 54.4 81.6  
98 38.8 33.6 50.4

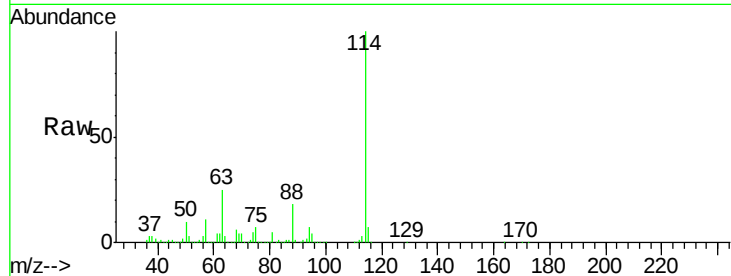




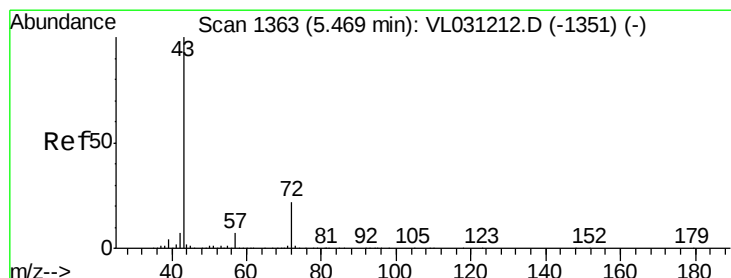
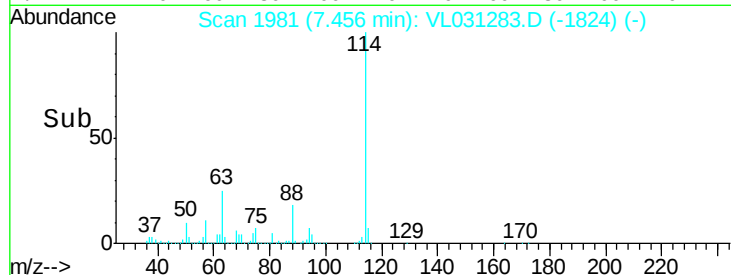
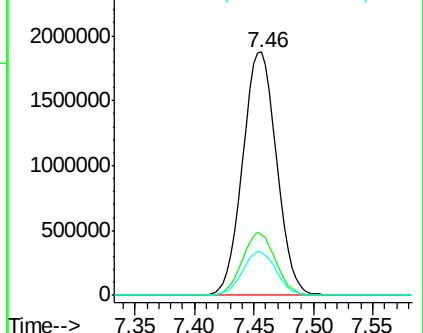
#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.46 min Scan# 1981  
 Delta R.T. 0.00 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-5

Tgt Ion:114 Resp: 3705028  
 Ion Ratio Lower Upper  
 114 100  
 63 25.4 19.8 29.8  
 88 17.9 14.2 21.4

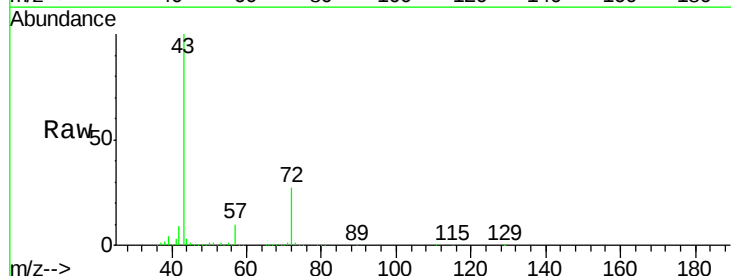


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

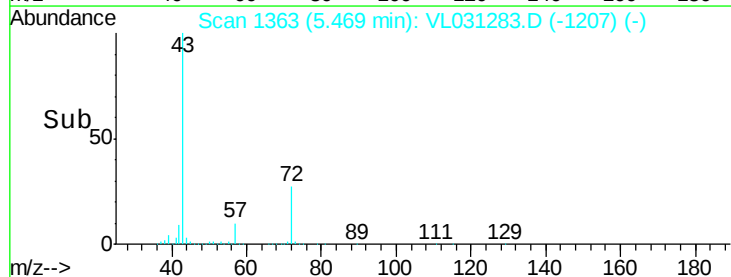
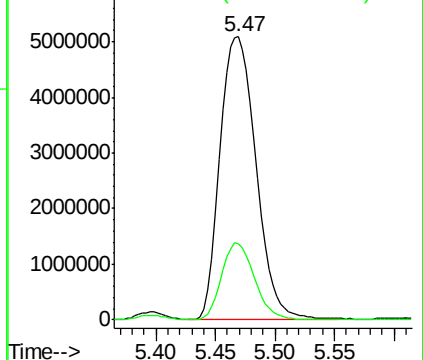


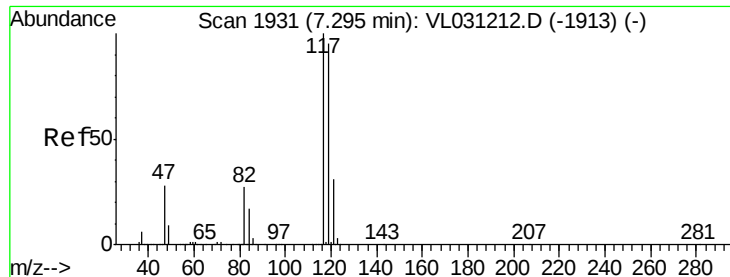
#34  
 2-Butanone  
 Concen: 40.87 ppbv  
 RT: 5.47 min Scan# 1363  
 Delta R.T. 0.00 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

Tgt Ion: 43 Resp:10693534  
 Ion Ratio Lower Upper  
 43 100  
 72 24.9 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0

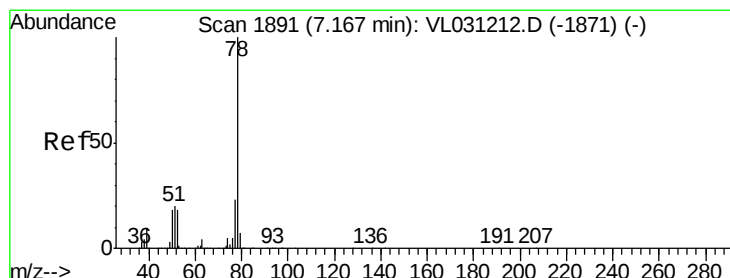
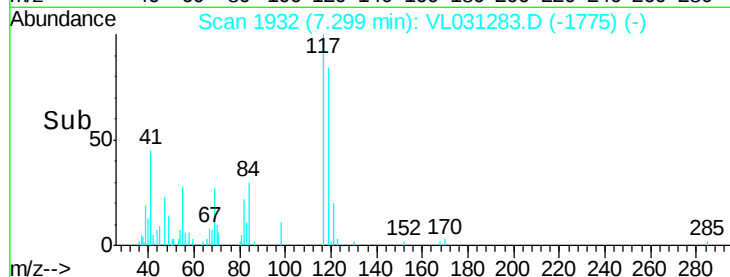
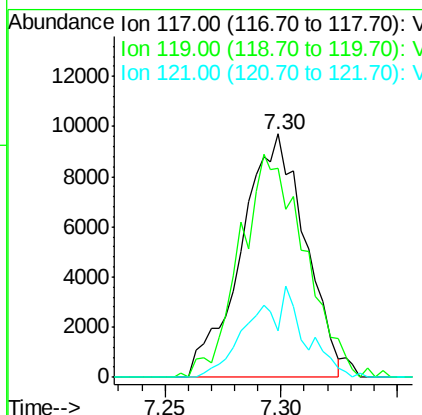
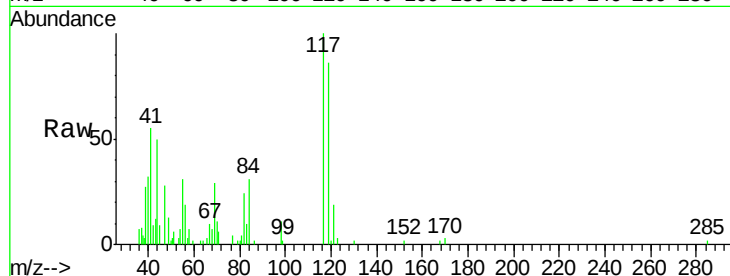




#35  
Carbon Tetrachloride  
Concen: 0.07 ppbv  
RT: 7.30 min Scan# 1932  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

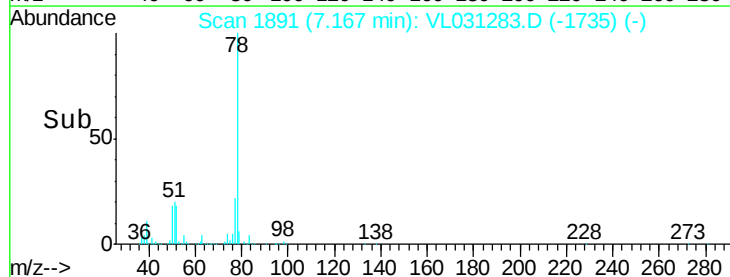
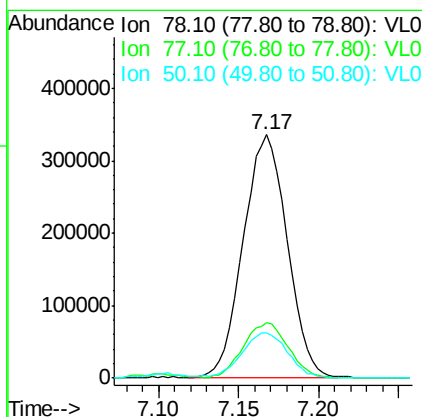
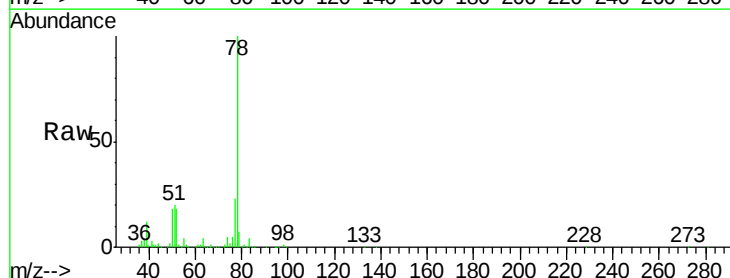
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

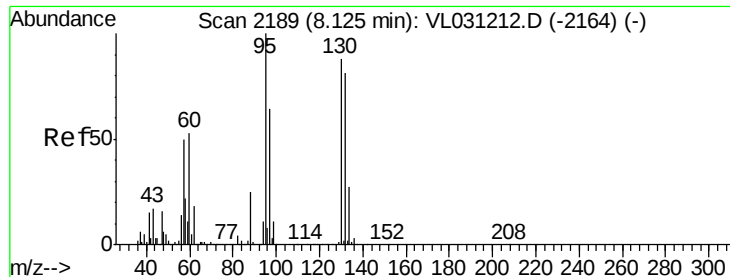
Tgt Ion: 117 Resp: 18473  
Ion Ratio Lower Upper  
117 100  
119 86.0 75.9 113.9  
121 19.1 24.6 37.0#



#36  
Benzene  
Concen: 1.61 ppbv  
RT: 7.17 min Scan# 1891  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

Tgt Ion: 78 Resp: 633190  
Ion Ratio Lower Upper  
78 100  
77 22.4 18.1 27.1  
50 18.3 14.6 21.8





#38

Trichloroethene

Concen: 13.52 ppbv

RT: 8.13 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

EP1-SV-5

Tgt Ion:130 Resp: 2071036

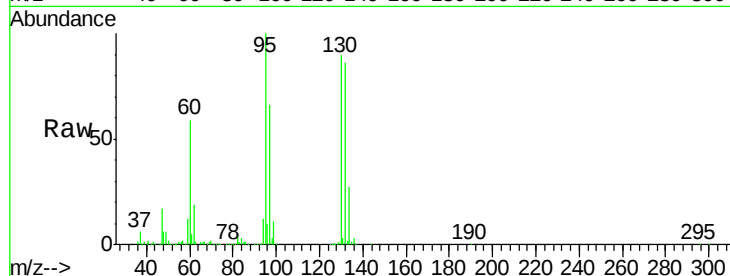
Ion Ratio Lower Upper

130 100

95 110.5 90.6 135.8

132 94.5 73.5 110.3

97 73.0 57.8 86.8

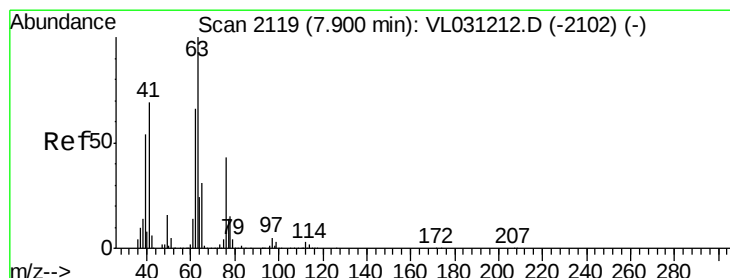
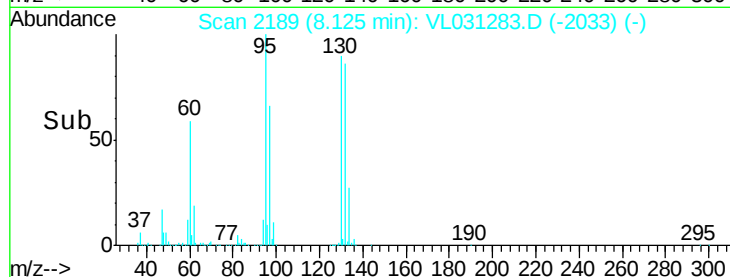
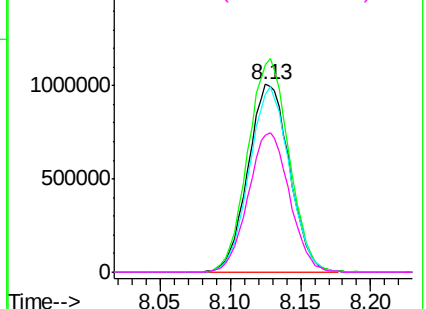


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.07 ppbv

RT: 8.12 min Scan# 2188

Delta R.T. 0.22 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

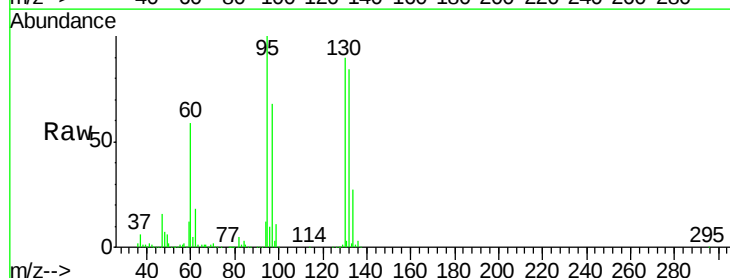
Tgt Ion: 63 Resp: 10402

Ion Ratio Lower Upper

63 100

41 0.0 55.2 82.8#

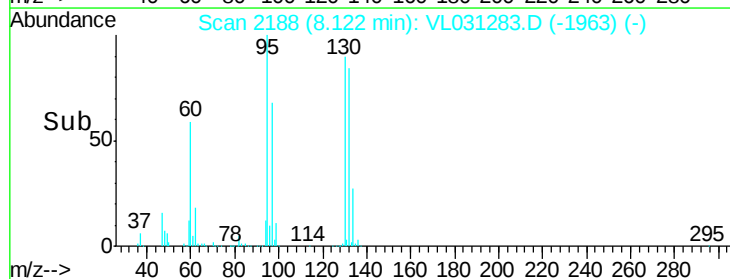
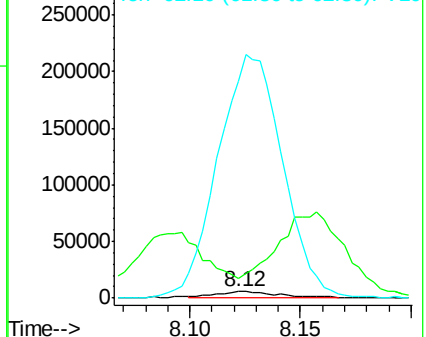
62 3446.1 53.0 79.4#

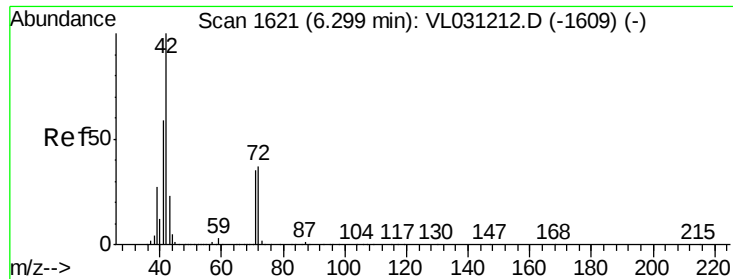


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.15 ppbv

RT: 6.31 min Scan# 1624

Delta R.T. 0.01 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

EP1-SV-5

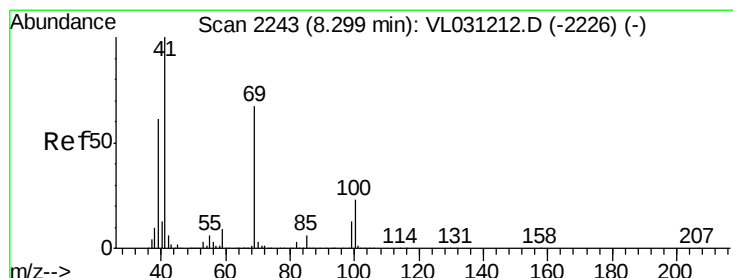
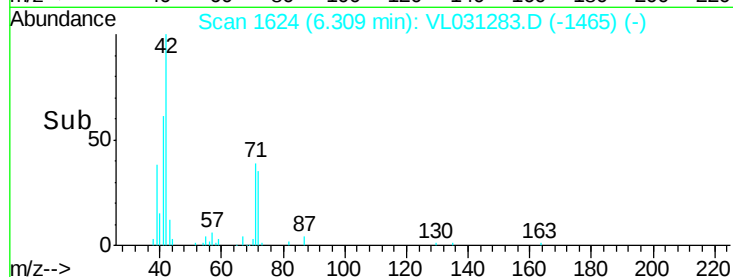
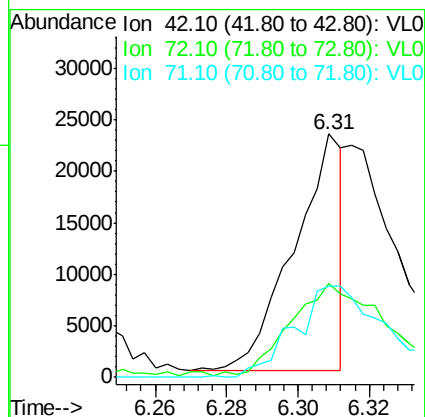
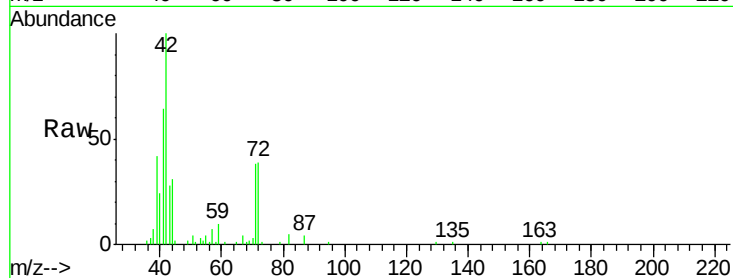
Tgt Ion: 42 Resp: 21781

Ion Ratio Lower Upper

42 100

72 82.6 30.2 45.4#

71 78.5 29.0 43.6#



#43

Methyl Methacrylate

Concen: 0.04 ppbv

RT: 8.27 min Scan# 2233

Delta R.T. -0.03 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

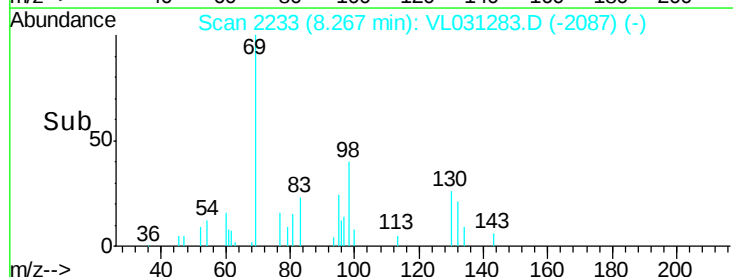
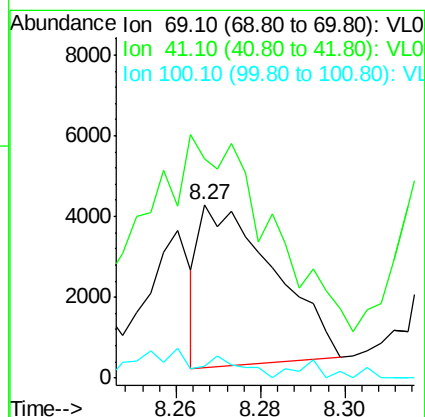
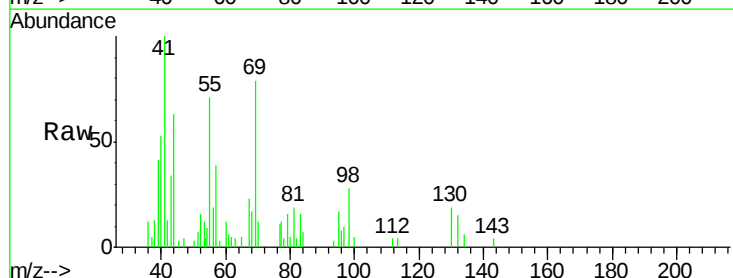
Tgt Ion: 69 Resp: 4881

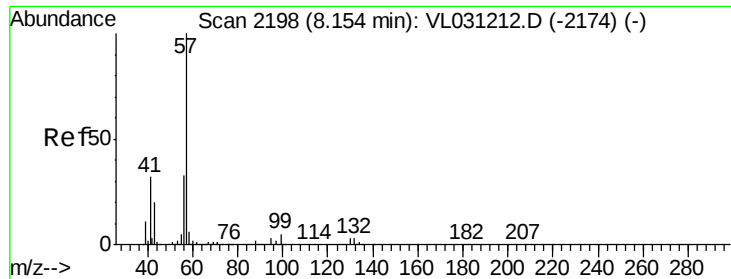
Ion Ratio Lower Upper

69 100

41 203.4 121.1 181.7#

100 0.0 27.4 41.2#

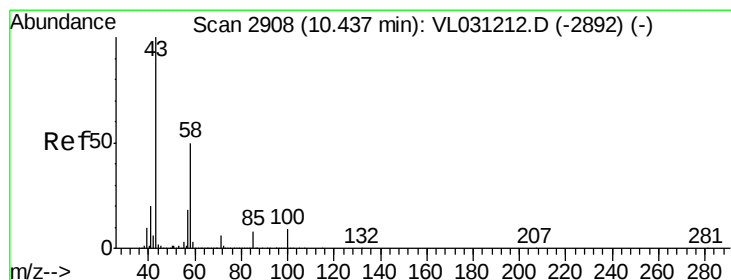
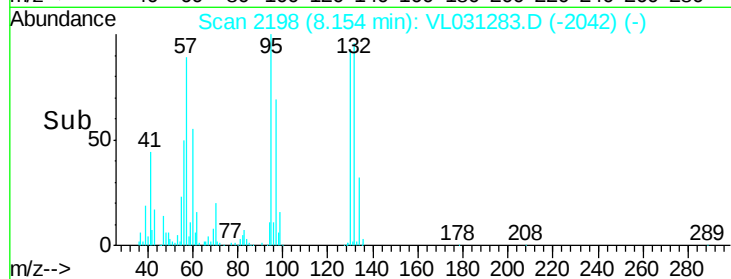
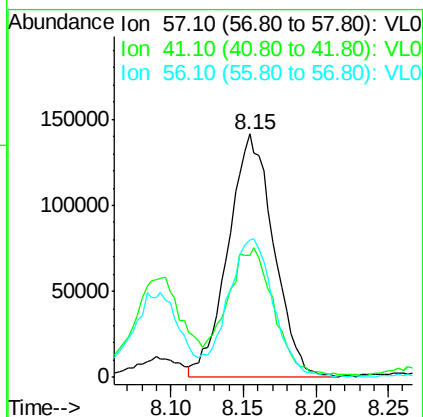
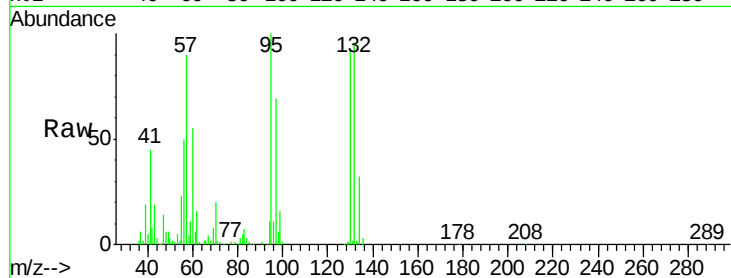




#44  
 2,2,4-Trimethylpentane  
 Concen: 0.52 ppbv  
 RT: 8.15 min Scan# 2198  
 Delta R.T. 0.00 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

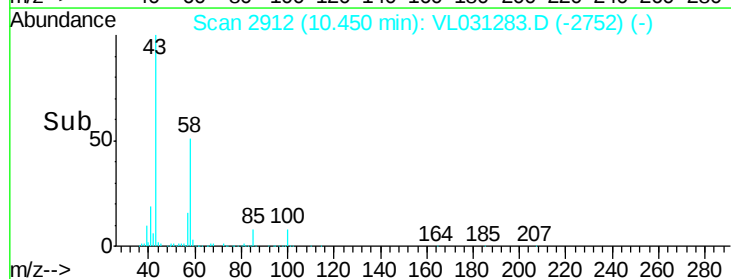
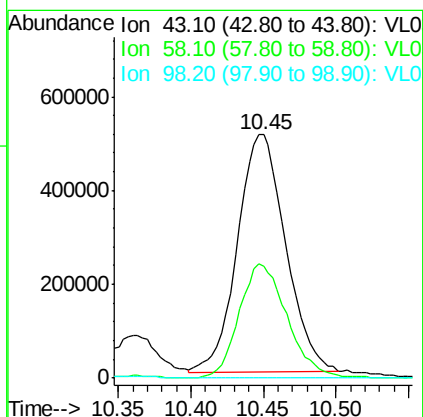
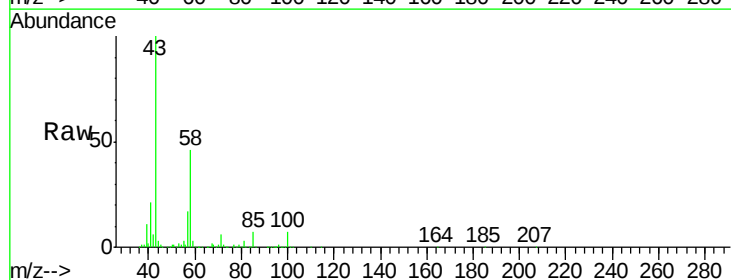
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-5

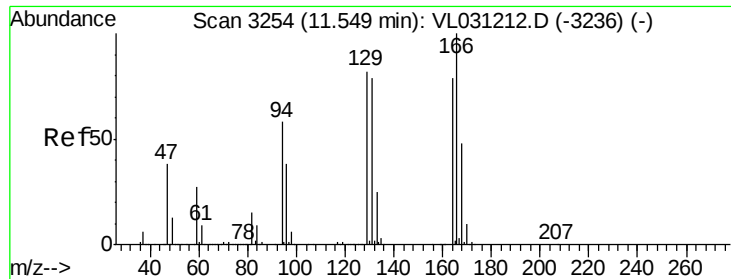
Tgt Ion: 57 Resp: 306281  
 Ion Ratio Lower Upper  
 57 100  
 41 54.5 25.5 38.3#  
 56 56.8 25.0 37.6#



#51  
 2-Hexanone  
 Concen: 3.84 ppbv  
 RT: 10.45 min Scan# 2912  
 Delta R.T. 0.01 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

Tgt Ion: 43 Resp: 1172650  
 Ion Ratio Lower Upper  
 43 100  
 58 47.6 39.8 59.6  
 98 0.2 0.0 0.0#





#52

Tetrachloroethene

Concen: 139.67 ppbv

RT: 11.58 min Scan# 3265

Delta R.T. 0.04 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

EP1-SV-5

Tgt Ion:164 Resp:20234477

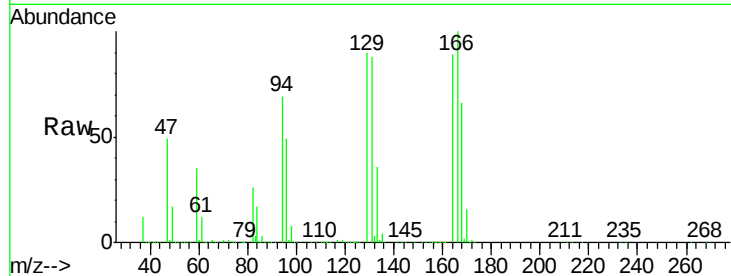
Ion Ratio Lower Upper

164 100

166 112.0 100.6 151.0

129 101.0 82.9 124.3

131 98.7 79.2 118.8



Abundance Ion 163.90 (163.60 to 164.60): V

1e+07 Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

8000000

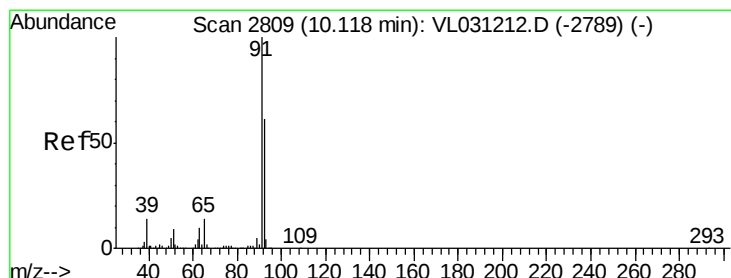
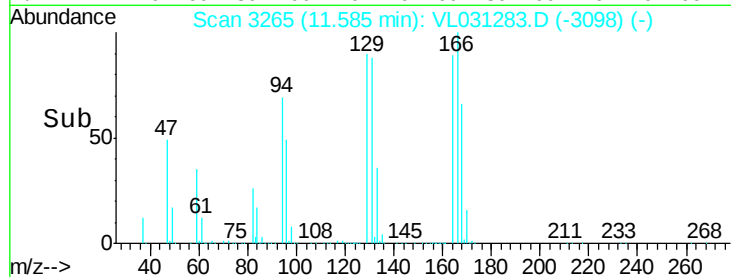
6000000

4000000

2000000

0

Time--> 11.40 11.50 11.60 11.70



#53

Toluene

Concen: 4.46 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031283.D

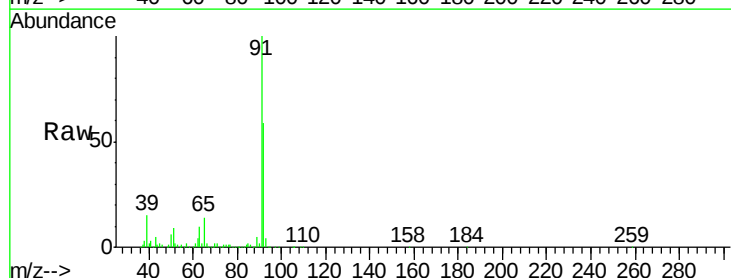
Acq: 20 Dec 2017 23:59

Tgt Ion: 91 Resp: 1899002

Ion Ratio Lower Upper

91 100

92 59.6 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

1000000

800000

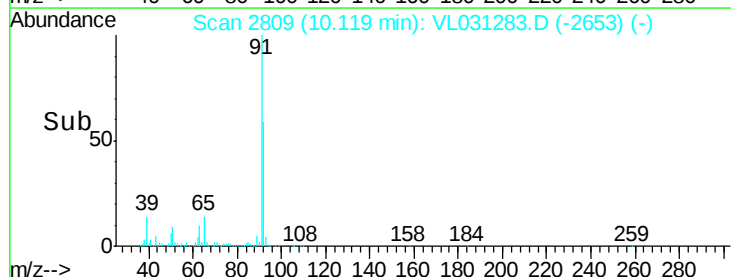
600000

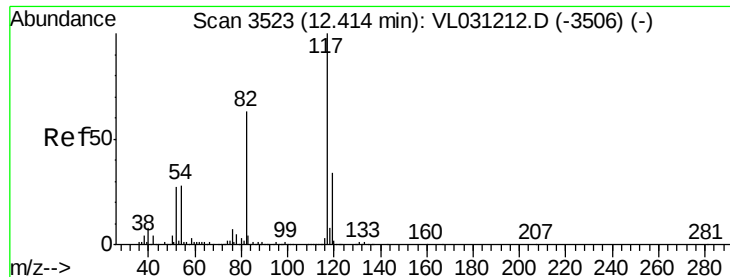
400000

200000

0

Time--> 10.00 10.10 10.20

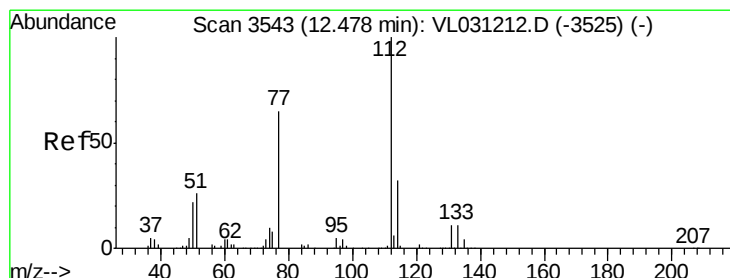
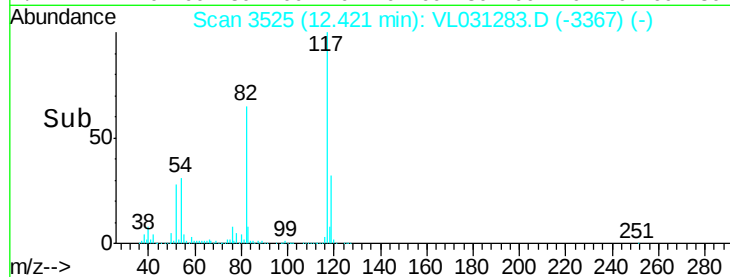
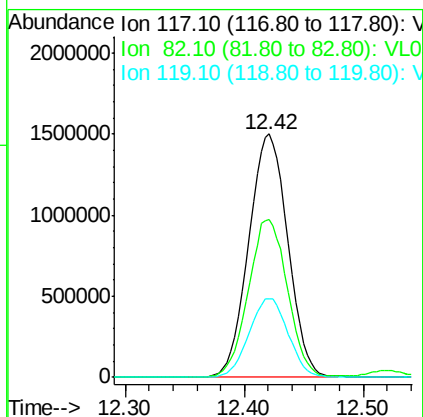
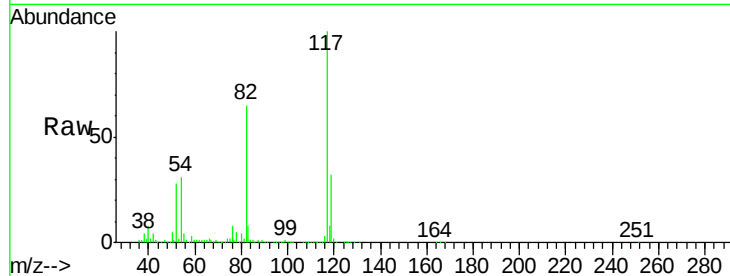




#55  
Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 12.42 min Scan# 3525  
Delta R.T. 0.01 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

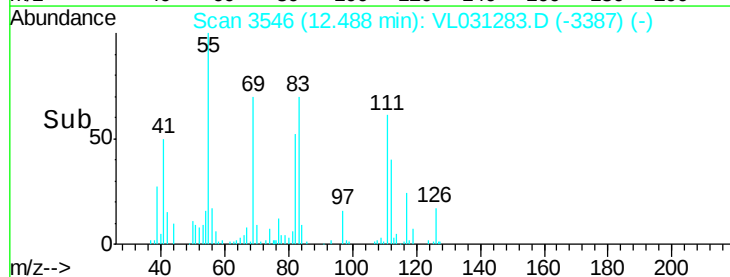
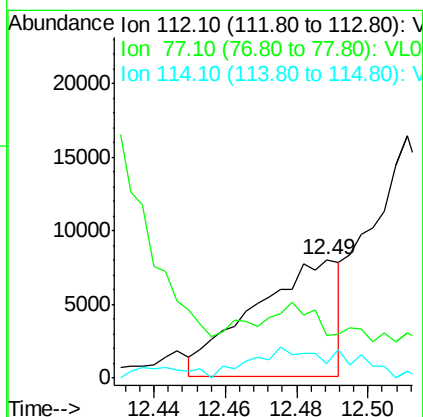
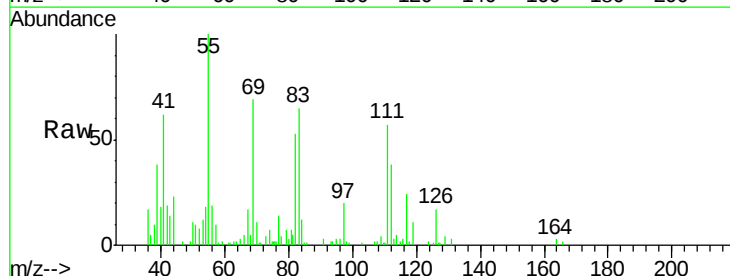
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

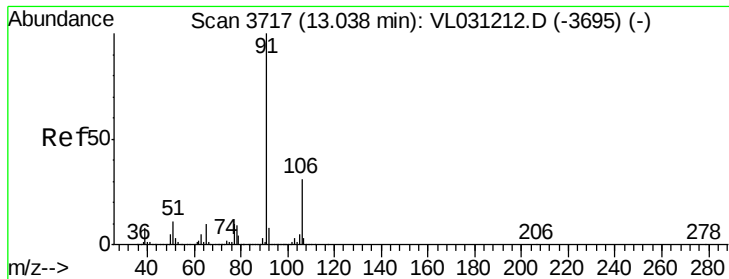
Tgt Ion:117 Resp: 3413764  
Ion Ratio Lower Upper  
117 100  
82 65.2 48.1 72.1  
119 32.6 23.1 34.7



#57  
Chlorobenzene  
Concen: 0.04 ppbv  
RT: 12.49 min Scan# 3546  
Delta R.T. 0.01 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

Tgt Ion:112 Resp: 13201  
Ion Ratio Lower Upper  
112 100  
77 10.1 52.9 79.3#  
114 7.9 29.1 35.5#





#58

Ethyl Benzene

Concen: 0.64 ppbv

RT: 13.04 min Scan# 3718

Delta R.T. 0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

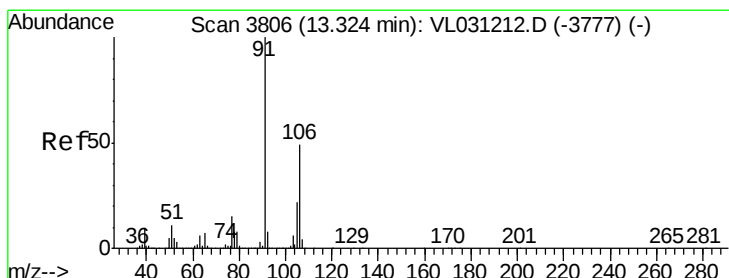
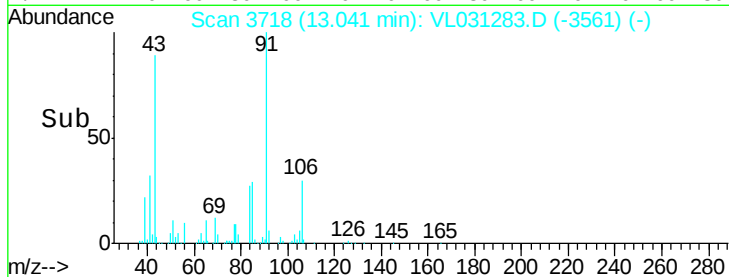
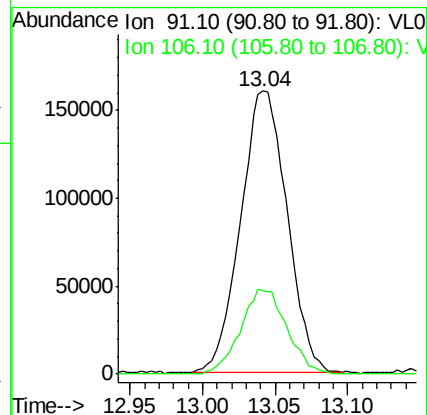
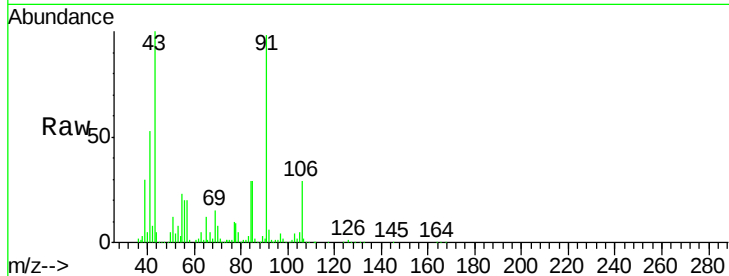
EP1-SV-5

Tgt Ion: 91 Resp: 358115

Ion Ratio Lower Upper

91 100

106 29.7 25.1 37.7



#59

m/p-Xylene

Concen: 1.52 ppbv

RT: 13.30 min Scan# 3797

Delta R.T. -0.03 min

Lab File: VL031283.D

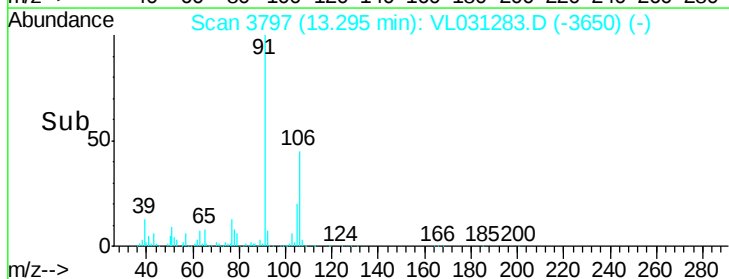
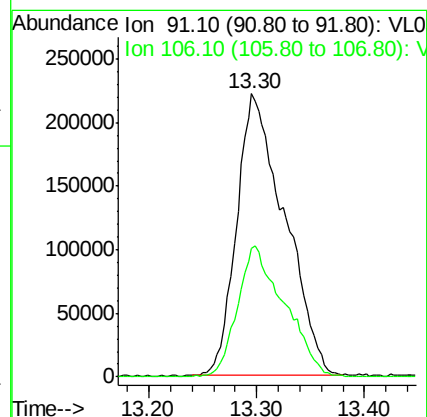
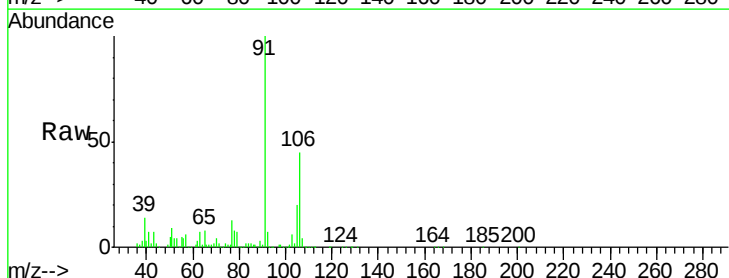
Acq: 20 Dec 2017 23:59

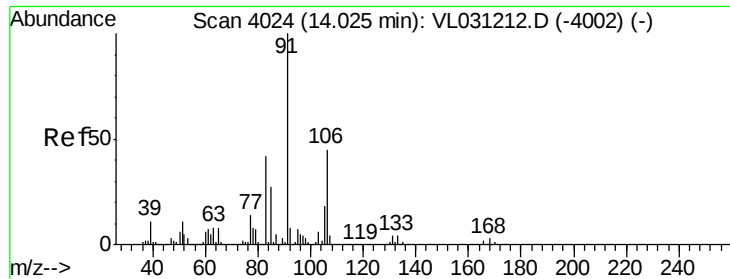
Tgt Ion: 91 Resp: 684667

Ion Ratio Lower Upper

91 100

106 45.6 38.5 57.7

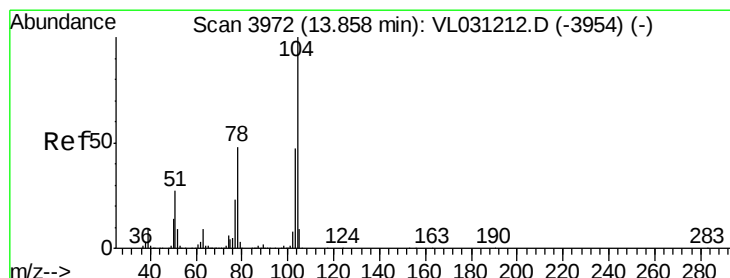
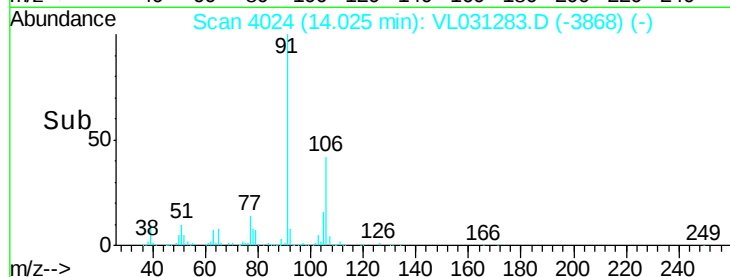
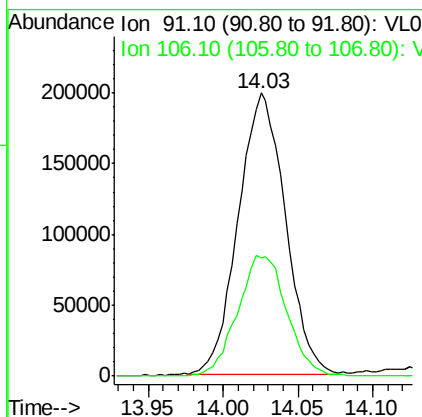
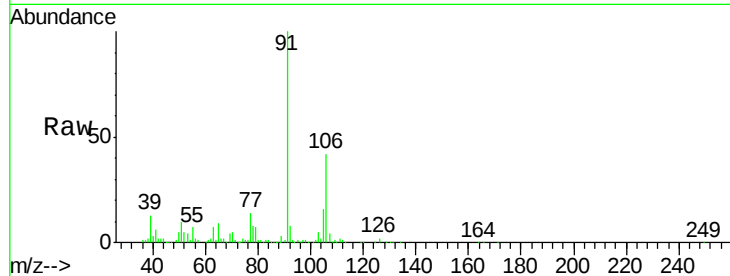




#60  
o-Xylene  
Concen: 0.96 ppbv  
RT: 14.03 min Scan# 4024  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

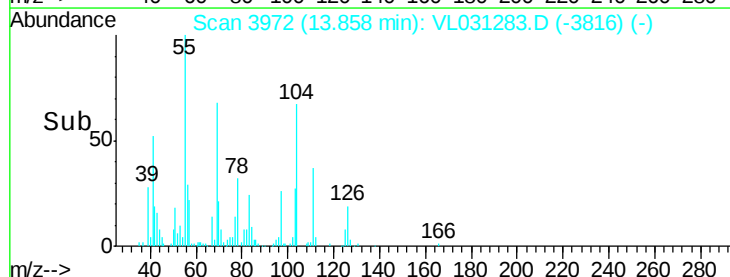
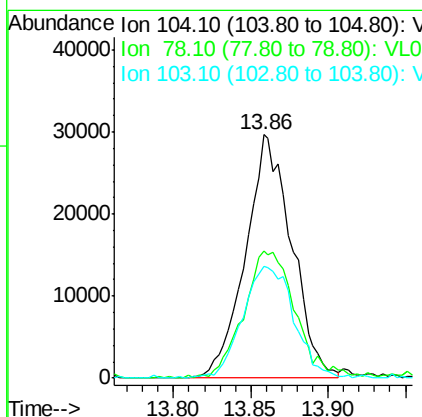
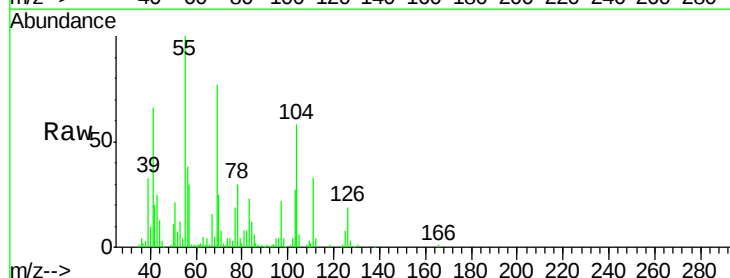
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-5

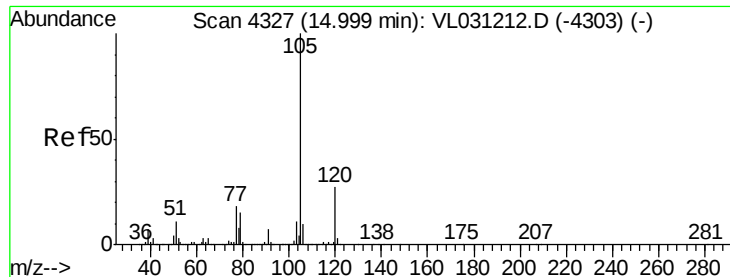
Tgt Ion: 91 Resp: 434747  
Ion Ratio Lower Upper  
91 100  
106 44.8 22.7 68.1



#61  
Styrene  
Concen: 0.47 ppbv  
RT: 13.86 min Scan# 3972  
Delta R.T. 0.00 min  
Lab File: VL031283.D  
Acq: 20 Dec 2017 23:59

Tgt Ion: 104 Resp: 61467  
Ion Ratio Lower Upper  
104 100  
78 59.6 39.1 58.7#  
103 51.4 37.3 55.9





#62

Isopropylbenzene

Concen: 0.14 ppbv

RT: 15.00 min Scan# 4328

Delta R.T. 0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

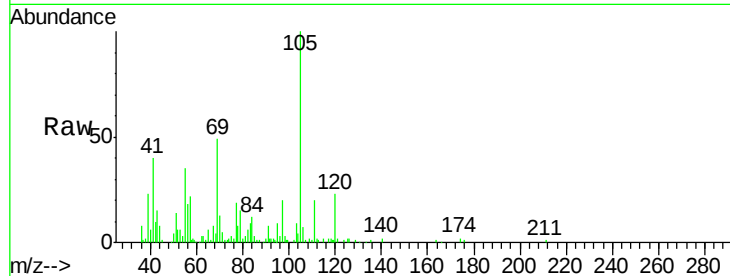
EP1-SV-5

Tgt Ion:105 Resp: 84505

Ion Ratio Lower Upper

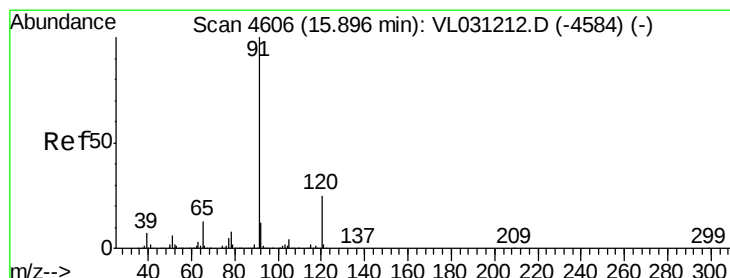
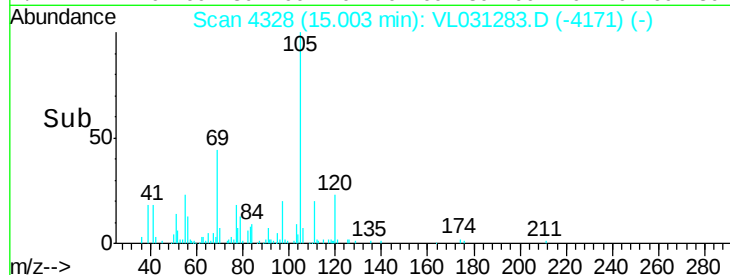
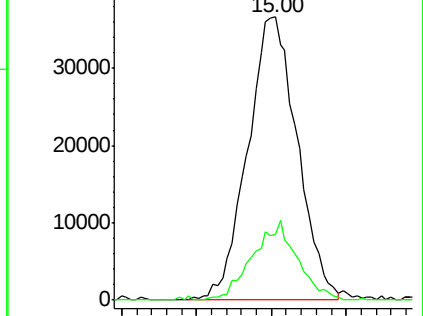
105 100

120 25.2 21.0 31.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.33 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. 0.20 min

Lab File: VL031283.D

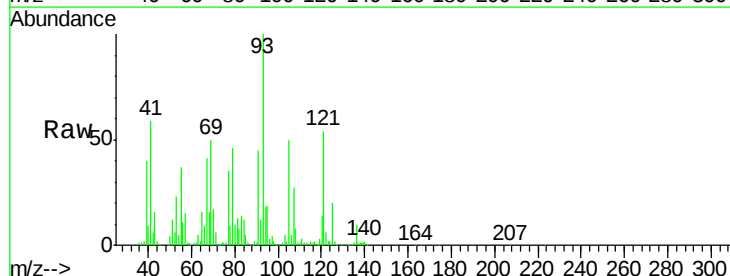
Acq: 20 Dec 2017 23:59

Tgt Ion:120 Resp: 51818

Ion Ratio Lower Upper

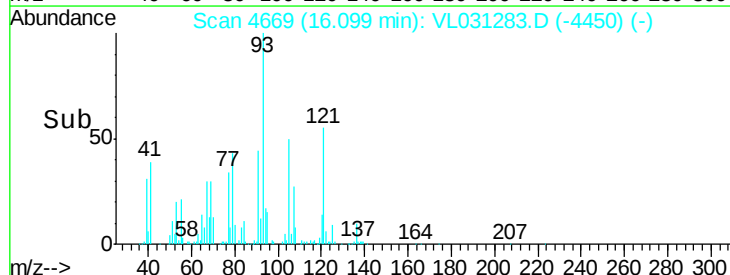
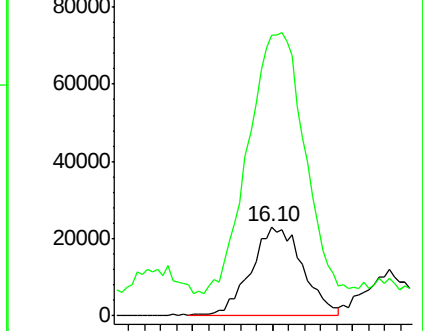
120 100

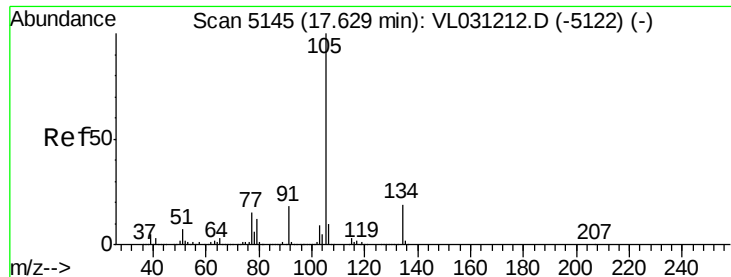
91 359.2 352.1 528.1



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

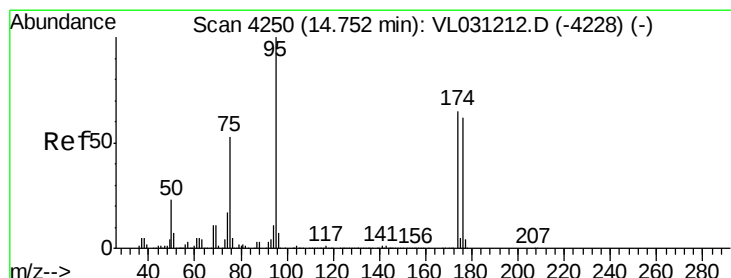
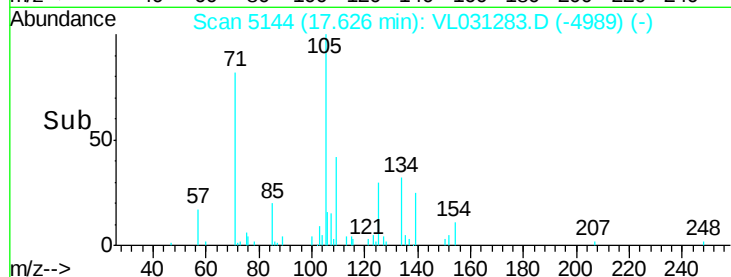
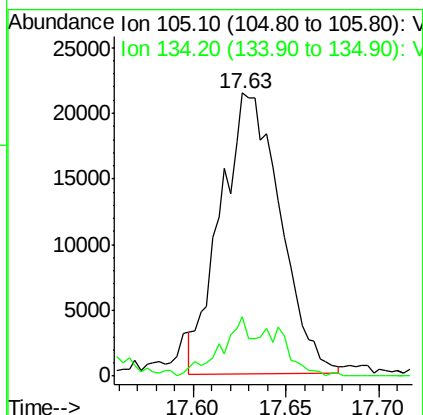
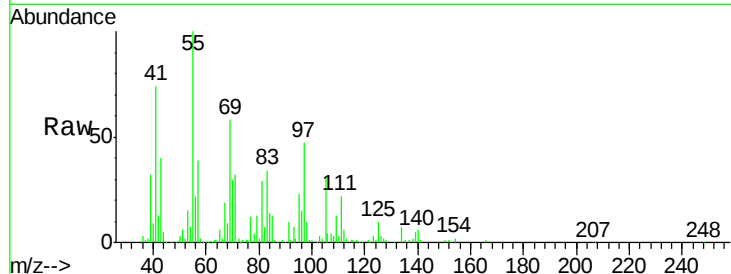




#67  
 sec-Butylbenzene  
 Concen: 0.07 ppbv  
 RT: 17.63 min Scan# 5144  
 Delta R.T. -0.00 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

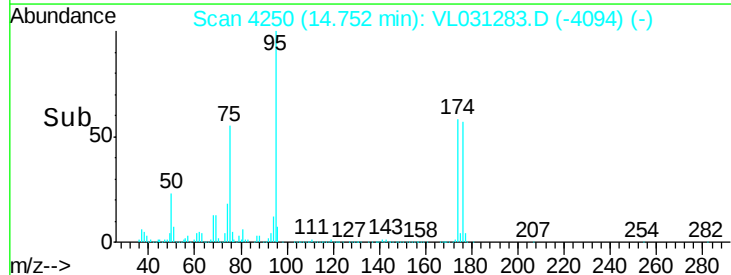
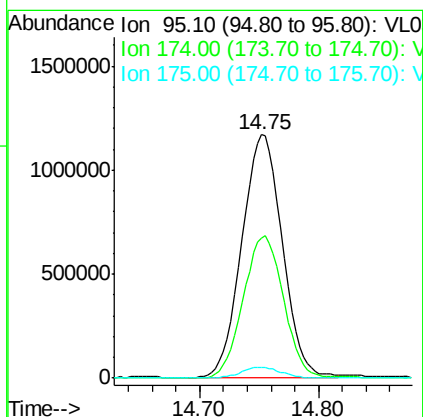
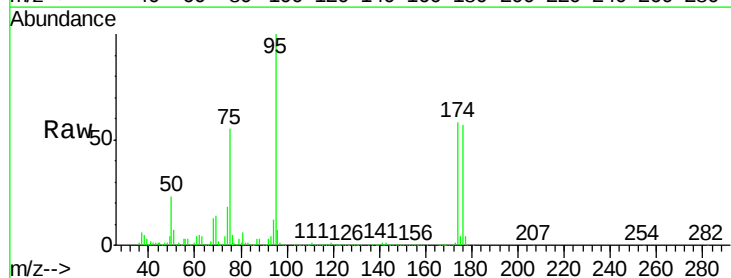
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 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-5

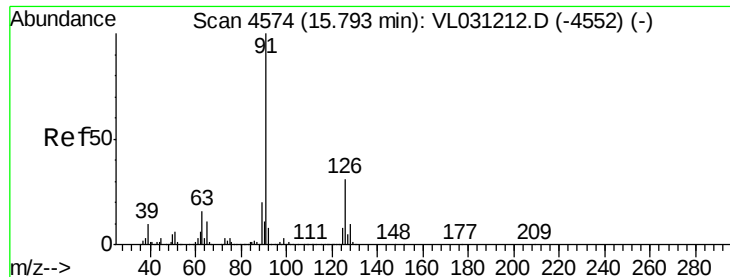
Tgt Ion: 105 Resp: 47728  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 15.3 22.9



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.37 ppbv  
 RT: 14.75 min Scan# 4250  
 Delta R.T. 0.00 min  
 Lab File: VL031283.D  
 Acq: 20 Dec 2017 23:59

Tgt Ion: 95 Resp: 2759685  
 Ion Ratio Lower Upper  
 95 100  
 174 59.0 52.5 78.7  
 175 4.4 4.1 6.1





#71

2-Chlorotoluene

Concen: 0.12 ppbv

RT: 15.90 min Scan# 4608

Delta R.T. 0.11 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

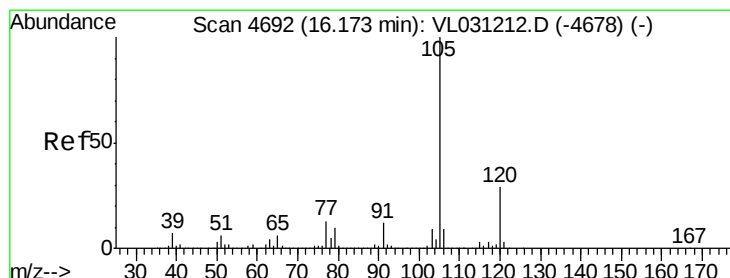
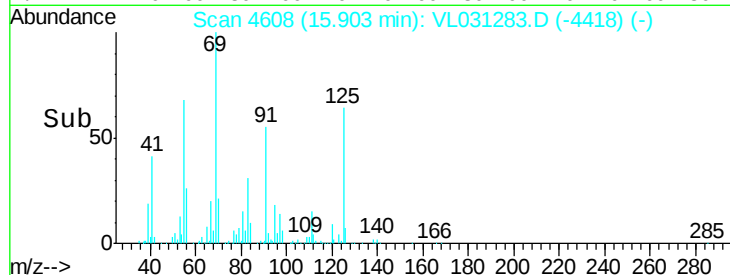
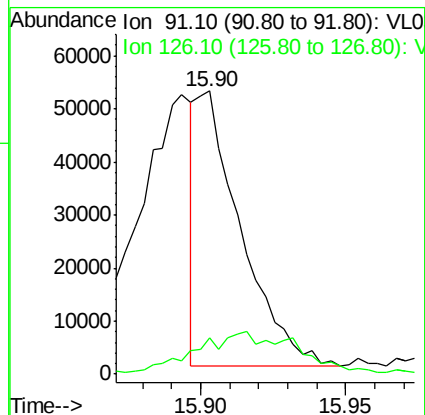
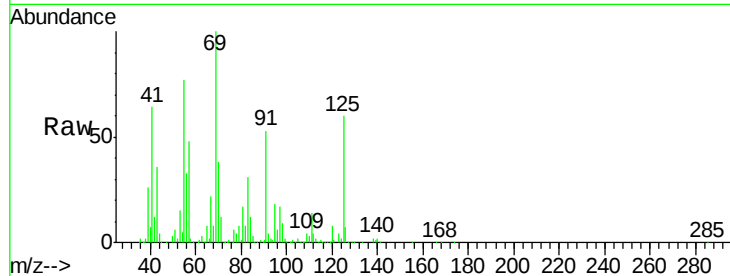
EP1-SV-5

Tgt Ion: 91 Resp: 54238

Ion Ratio Lower Upper

91 100

126 38.9 12.6 50.6



#72

4-Ethyltoluene

Concen: 0.16 ppbv

RT: 16.17 min Scan# 4692

Delta R.T. 0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Tgt Ion: 105 Resp: 79986

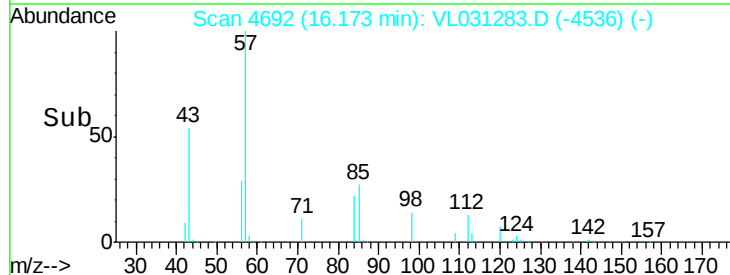
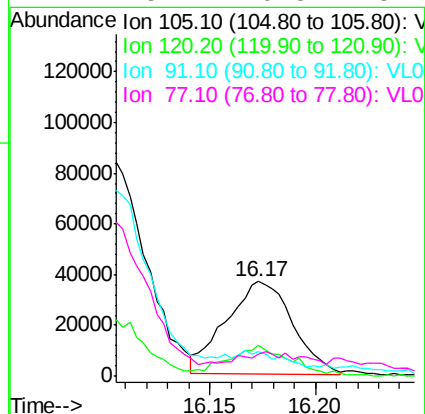
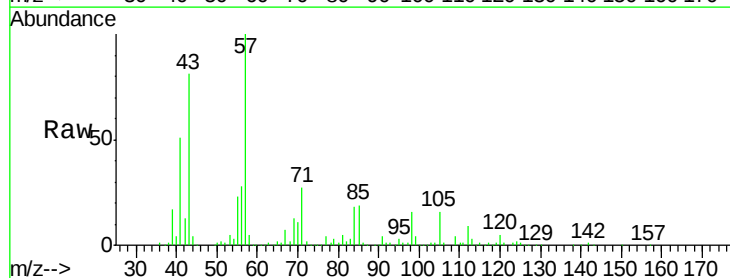
Ion Ratio Lower Upper

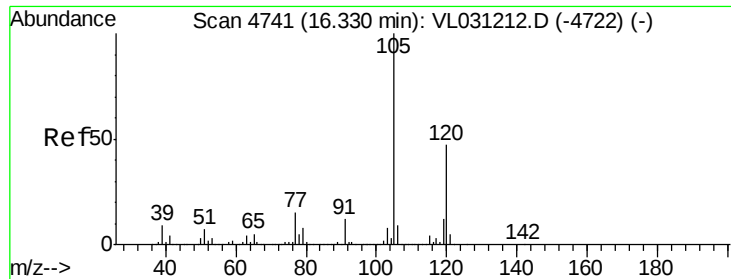
105 100

120 30.9 24.2 36.2

91 26.2 9.8 14.8#

77 28.7 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.26 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. -0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Instrument :

MSVOA\_L

ClientSampleId :

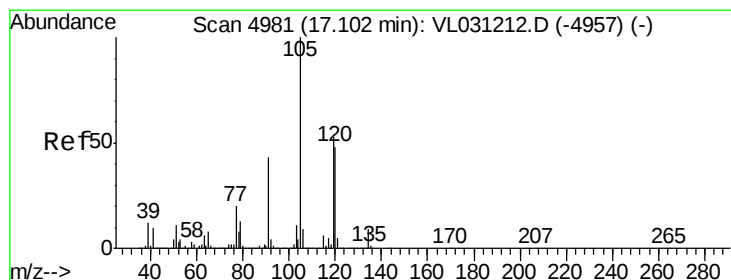
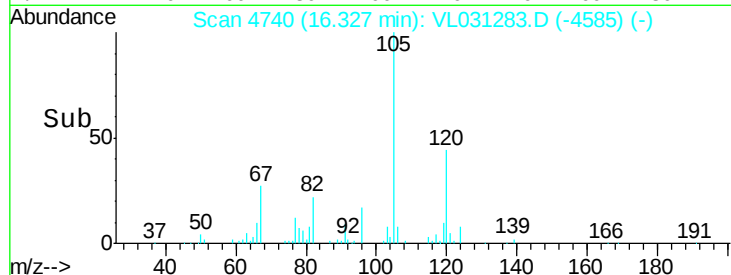
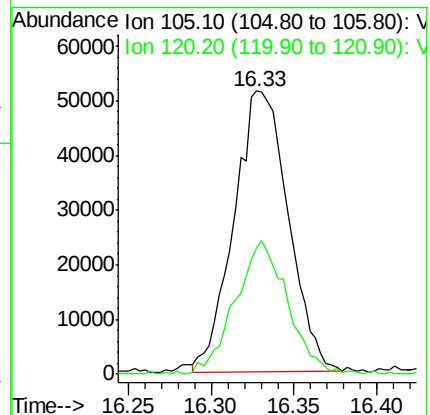
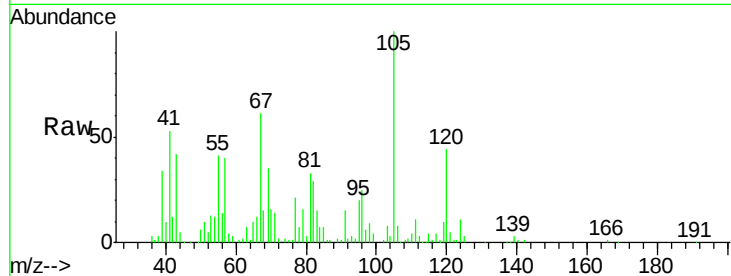
EP1-SV-5

Tgt Ion:105 Resp: 117326

Ion Ratio Lower Upper

105 100

120 44.2 37.8 56.6



#74

1,2,4-Trimethylbenzene

Concen: 0.28 ppbv

RT: 17.10 min Scan# 4980

Delta R.T. -0.00 min

Lab File: VL031283.D

Acq: 20 Dec 2017 23:59

Tgt Ion:105 Resp: 130023

Ion Ratio Lower Upper

105 100

120 49.6 38.6 58.0

91 10.5 34.2 51.4#

77 8.1 16.1 24.1#

