Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL052819\

Quantitation Report (Not Reviewed)

Data File : VL033826.D
Acq On : 29 May 2019 6:22
Operator : SY/AP
Sample : K2960-08 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** BPS1-SG-3010-55

Quant Time: May 29 06:55:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.76 | 49 | 729970 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.28 | 114 | 1896896 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.23 | 117 | 1689913 | 10.00 | ppbv | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.57 | 95 | 1495983 | 10.92 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 109.20% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 3) Chlorodifluoromethane | 2.99 | 51 | 11006 | 0.132 | ppbv | # | 71 |
| 4) Chloromethane | 3.16 | 50 | 1175 | 0.025 | ppbv | | 94 |
| 9) Propene | 3.04 | 41 | 236380 | 6.646 | ppbv | | 88 |
| 10) Heptane | 8.24 | 43 | 8078 | 0.080 | ppbv | # | 77 |
| 11) Trichlorofluoromethane | 4.00 | 101 | 71764 | 0.489 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55 | 101 | 3598 | 0.035 | ppbv | | 92 |
| 13) Ethanol | 3.66 | 45 | 37068 | 3.225 | ppbv | | 98 |
| 15) Acetone | 3.89 | 43 | 1617592 | 15.972 | ppbv | | 99 |
| 16) 1,3-Butadiene | 3.34 | 39 | 157077 | 3.895 | ppbv | # | 24 |
| 17) tert-Butyl alcohol | 4.37 | 59 | 7701 | 0.094 | ppbv | # | 57 |
| 19) Isopropyl Alcohol | 4.04 | 45 | 5691 | 0.087 | ppbv | # | 94 |
| 20) Methylene Chloride | 4.40 | 84 | 11895 | 0.305 | ppbv | # | 81 |
| 21) Allyl Chloride | 4.47 | 41 | 674 | 0.011 | ppbv | # | 1 |
| 23) Vinyl Acetate | 5.15 | 43 | 14196 | 0.106 | ppbv | # | 81 |
| 25) Ethyl Acetate | 5.77 | 43 | 20557 | 0.116 | ppbv | # | 80 |
| 26) Hexane | 5.77 | 57 | 23035 | 0.301 | ppbv | # | 40 |
| 27) Carbon Disulfide | 4.62 | 76 | 18904 | 0.180 | ppbv | # | 86 |
| 34) 2-Butanone | 5.33 | 43 | 102117 | 0.869 | ppbv | | 96 |
| 36) Benzene | 6.99 | 78 | 10929 | 0.063 | ppbv | | 95 |
| 39) 1,2-Dichloropropane | 7.28 | 63 | 498466 | 7.748 | ppbv | # | 23 |
| 53) Toluene | 9.94 | 91 | 122065 | 0.656 | ppbv | | 98 |
| 58) Ethyl Benzene | 12.85 | 91 | 10477 | 0.047 | ppbv | # | 76 |
| 59) m/p-Xylene | 13.14 | 91 | 17759 | 0.091 | ppbv | # | 31 |
| 60) o-Xylene | 13.84 | 91 | 6604 | 0.033 | ppbv | # | 1 |
| 72) 4-Ethyltoluene | 15.99 | 105 | 6581 | 0.029 | ppbv | # | 50 |
| 74) 1,2,4-Trimethylbenzene | 16.92 | 105 | 35601 | 0.149 | ppbv | # | 72 |
| 75) 1,3-Dichlorobenzene | 17.15 | 146 | 3521 | 0.024 | ppbv | # | 1 |

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

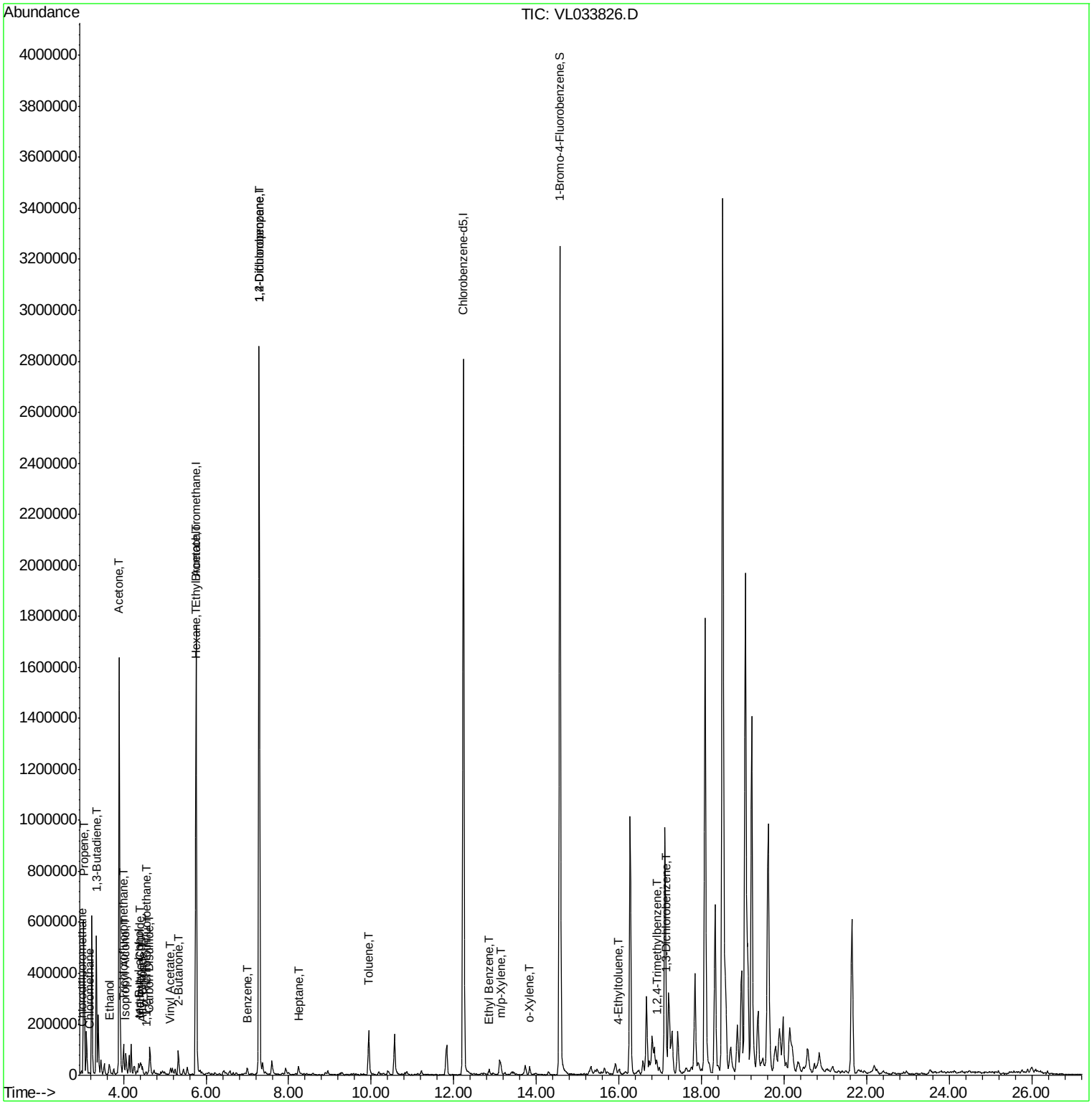
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL052819\

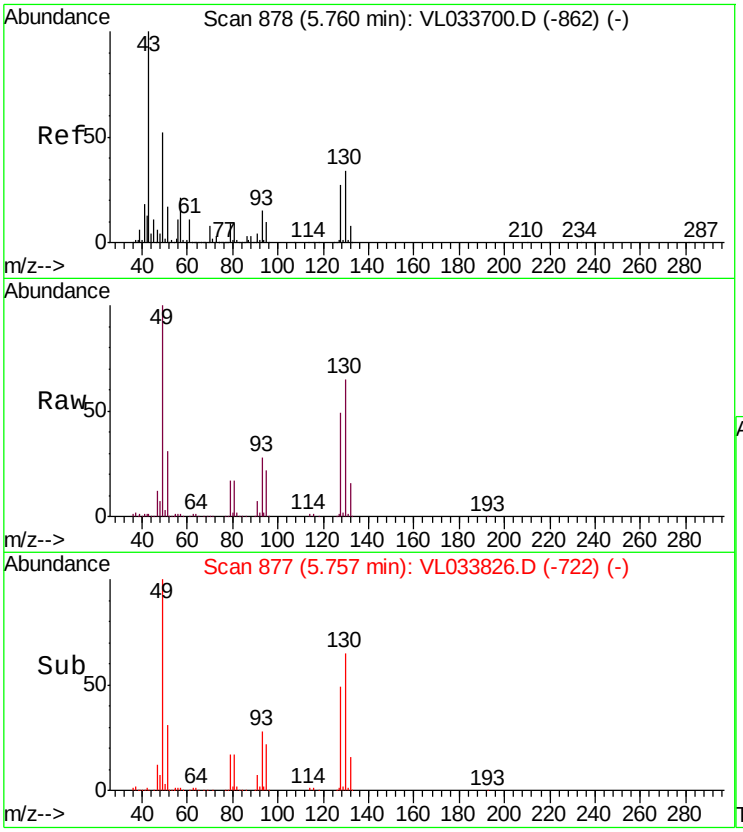
Quantitation Report (Not Reviewed)

Data File : VL033826.D
Acq On : 29 May 2019 6:22
Operator : SY/AP
Sample : K2960-08 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** BPS1-SG-3010-55

Quant Time: May 29 06:55:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration



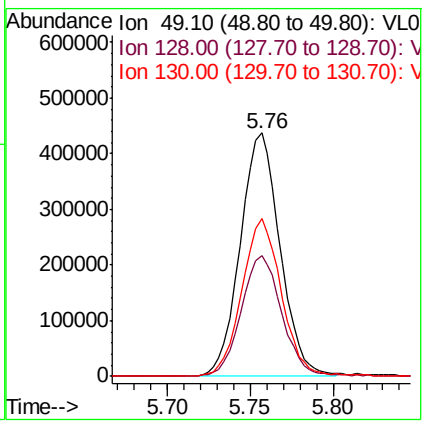


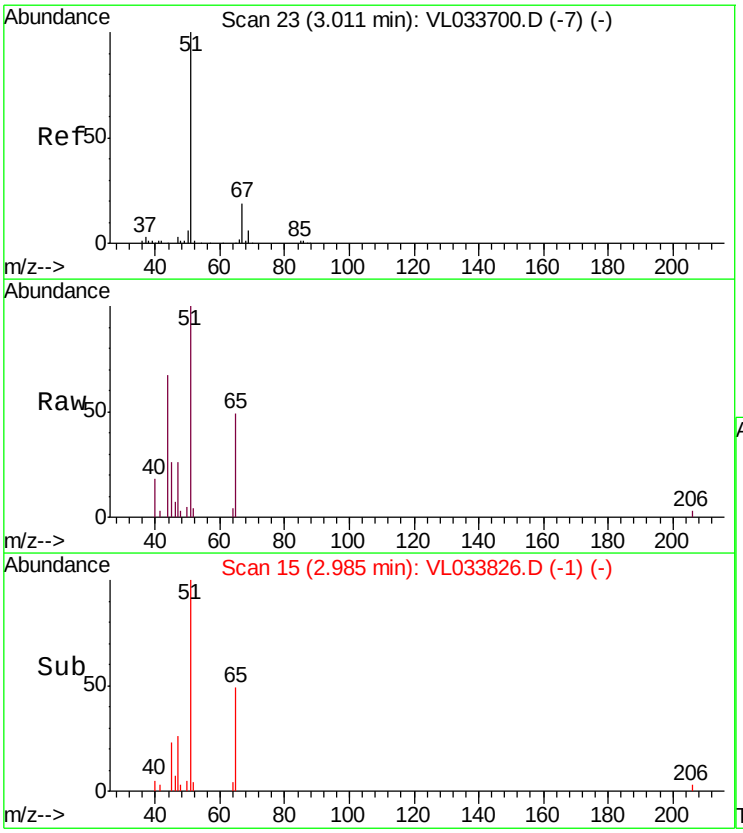

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion: 49 Resp: 729970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 50.7 | 25.2 | 75.6 |
| 130 | 64.7 | 32.5 | 97.5 |

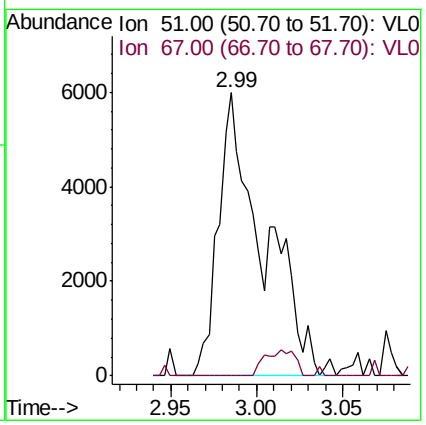


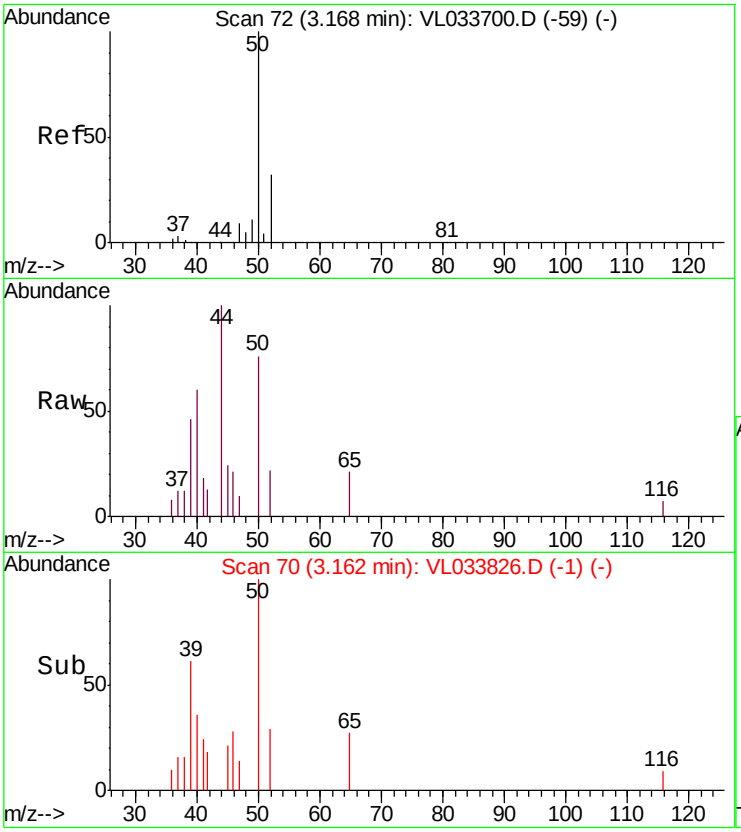




#3
Chlorodifluoromethane
Concen: 0.132 ppbv
RT: 2.99 min Scan# 15
Delta R.T. -0.03 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 51 Resp: 11006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 6.3 | 15.6 | 23.4# |



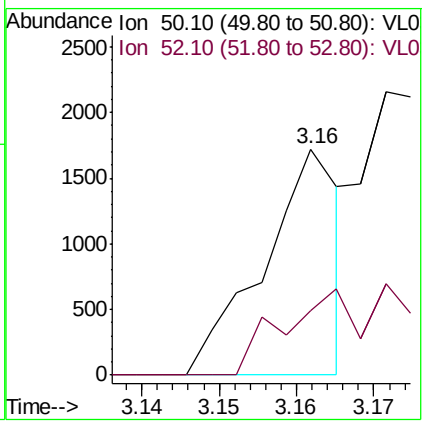


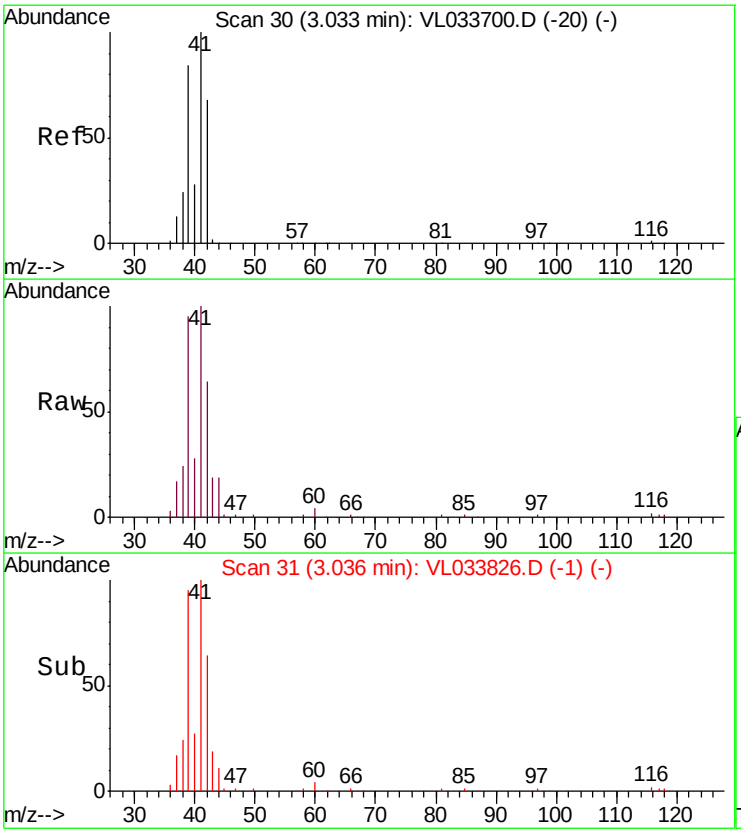

#4
Chloromethane
Concen: 0.025 ppbv
RT: 3.16 min Scan# 70
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion: 50 Resp: 1175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.5 | 25.7 | 38.5 |

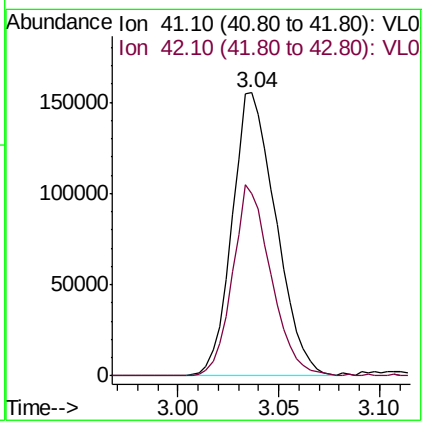


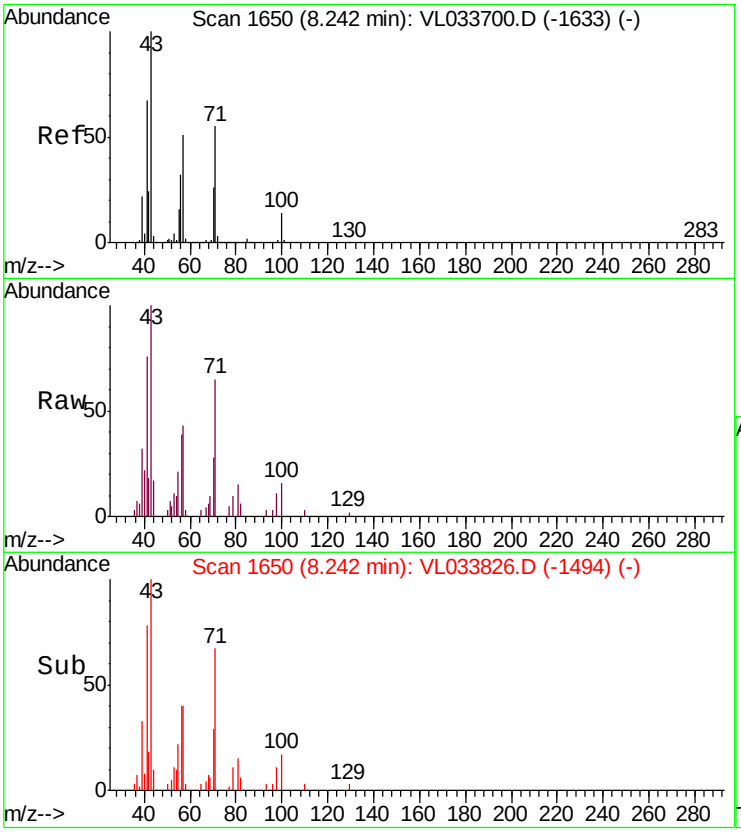




#9
Propene
Concen: 6.646 ppbv
RT: 3.04 min Scan# 31
Delta R.T. 0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 41 Resp: 236380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.9 | 56.1 | 84.1 |



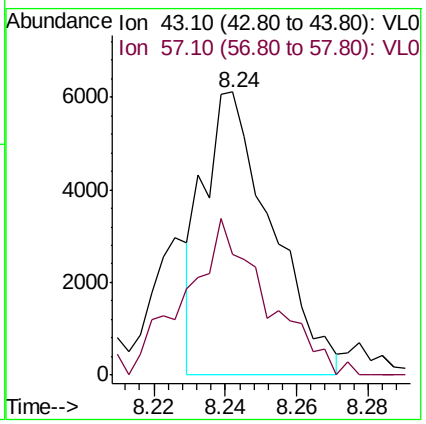


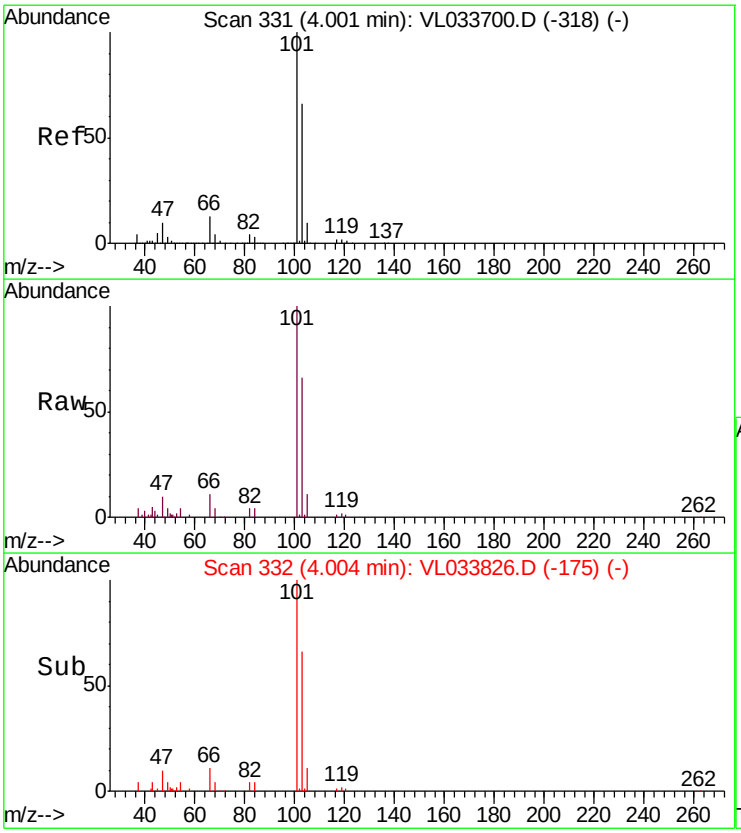

#10
Heptane
Concen: 0.080 ppbv
RT: 8.24 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :** MSVOA_L
**ClientSampleId :** BPS1-SG-3010-55

Tgt Ion: 43 Resp: 8078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 67.5 | 41.4 | 62.0# |

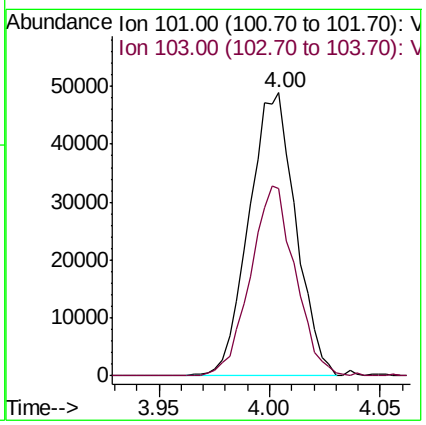


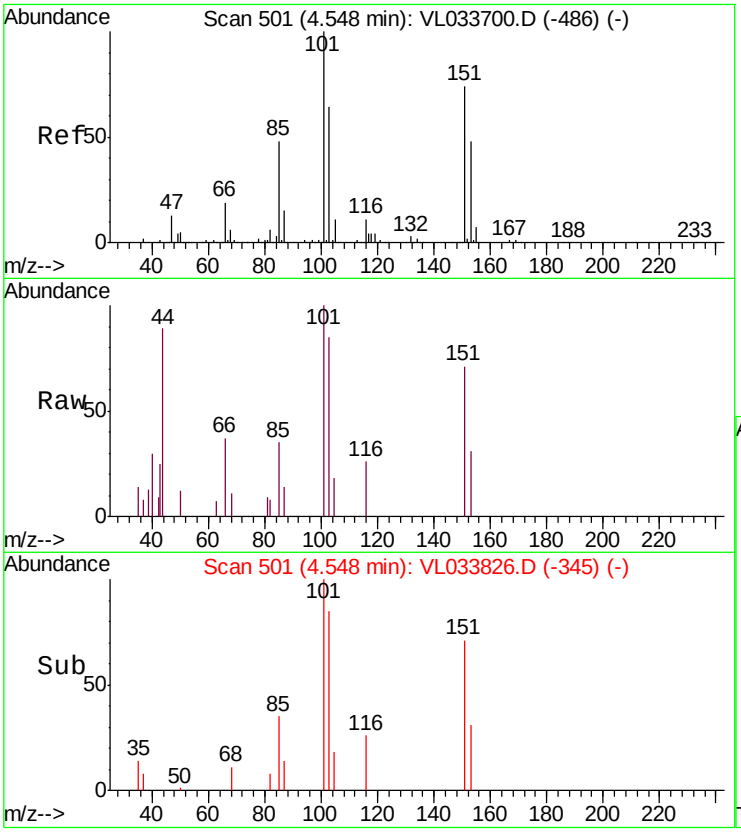




#11
Trichlorofluoromethane
Concen: 0.489 ppbv
RT: 4.00 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion:101 Resp: 71764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.5 | 52.6 | 78.8 |



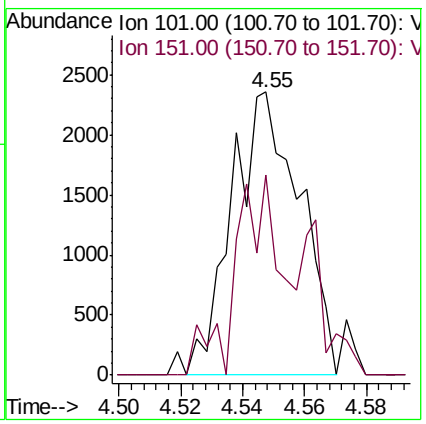


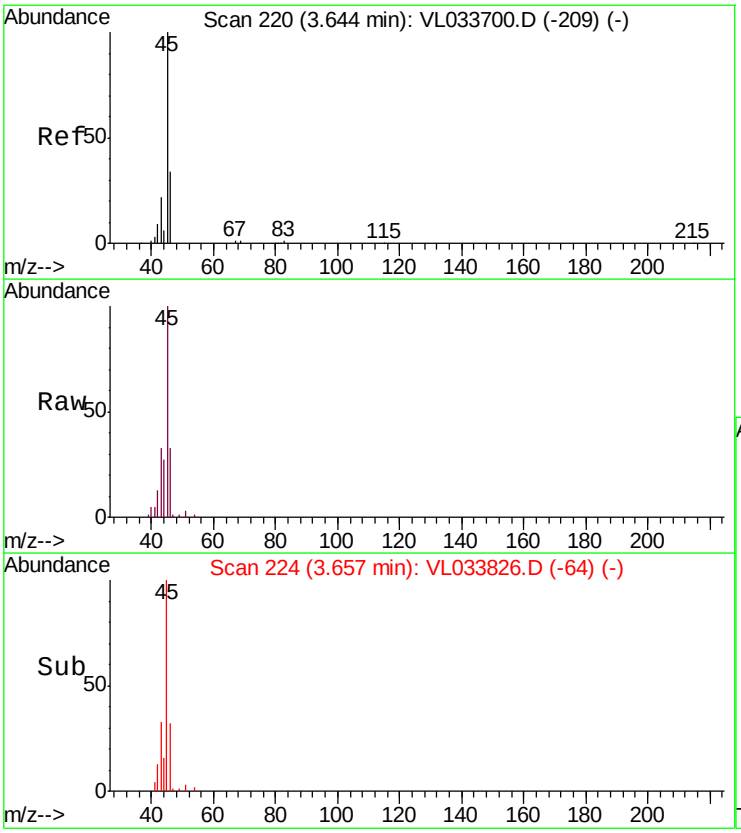

#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.035 ppbv
RT: 4.55 min Scan# 501
Delta R.T. 0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion:101 Resp: 3598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 65.9 | 58.2 | 87.4 |

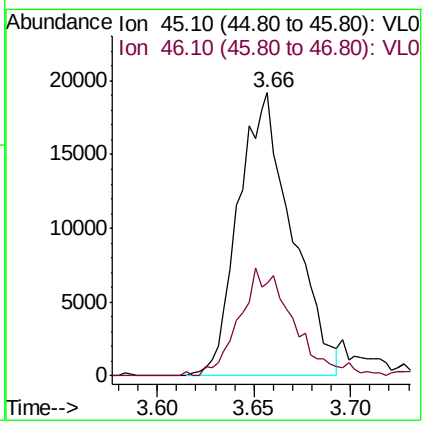


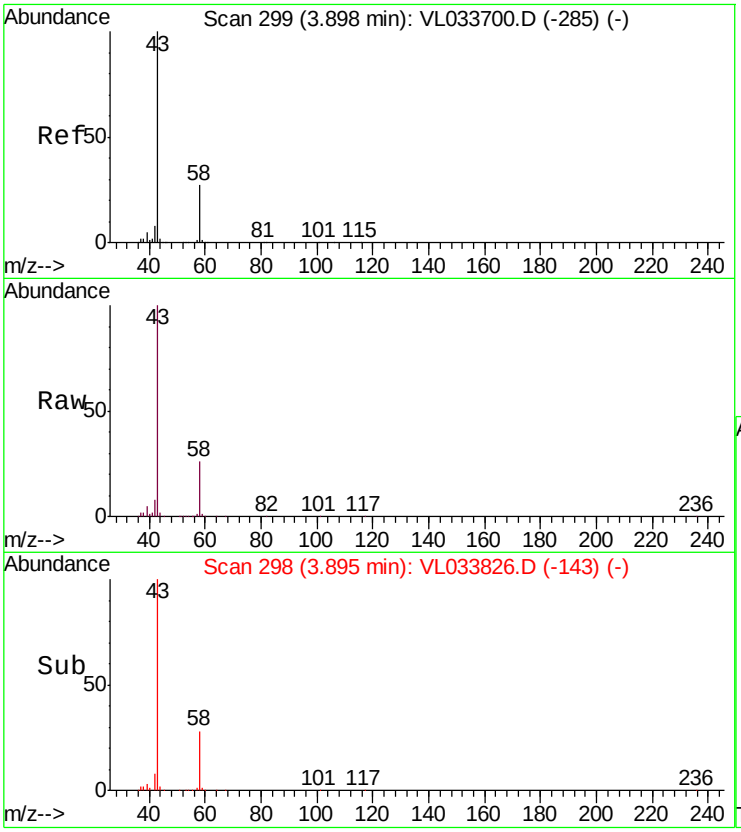




#13
Ethanol
Concen: 3.225 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 45 Resp: 37068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.1 | 14.8 | 59.0 |



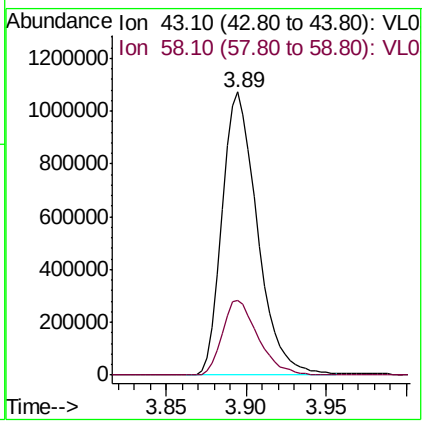


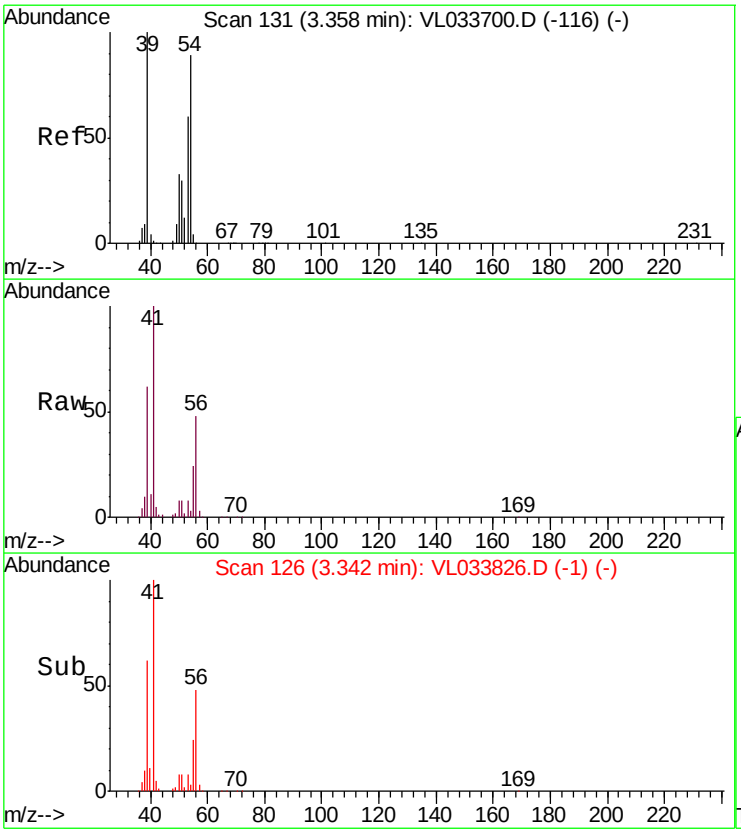

#15
Acetone
Concen: 15.972 ppbv
RT: 3.89 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion: 43 Resp: 1617592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.0 | 21.3 | 31.9 |

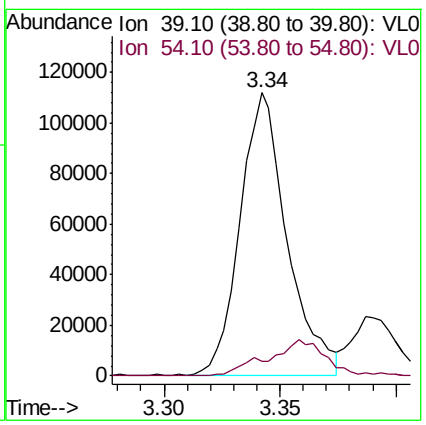


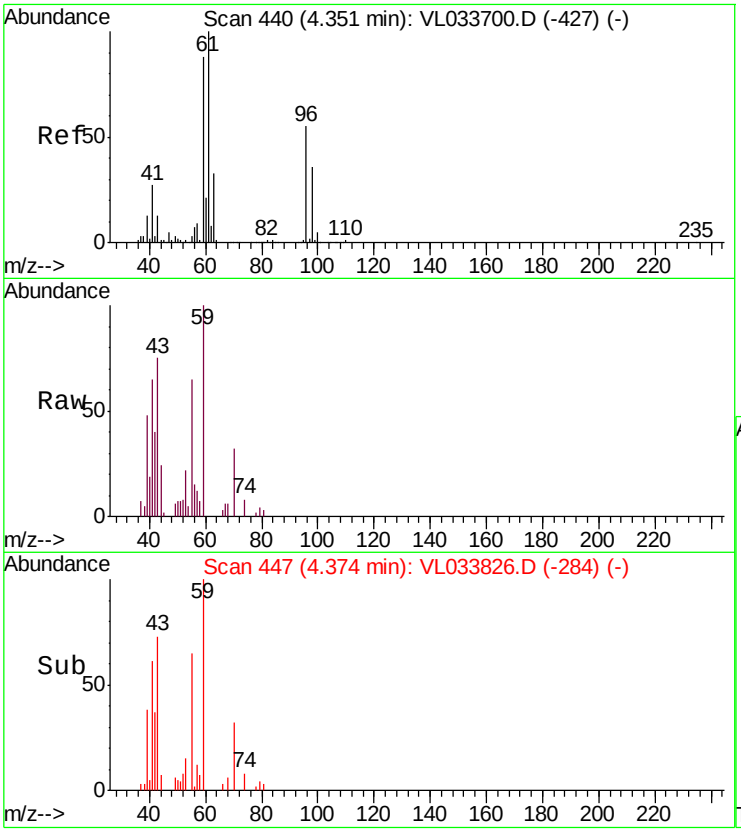




#16
1,3-Butadiene
Concen: 3.895 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.02 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 39 Resp: 157077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 16.2 | 69.0 | 103.6# |



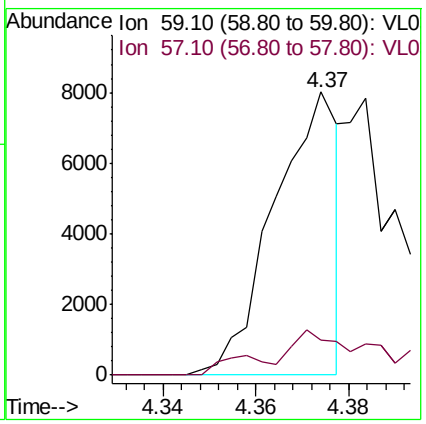


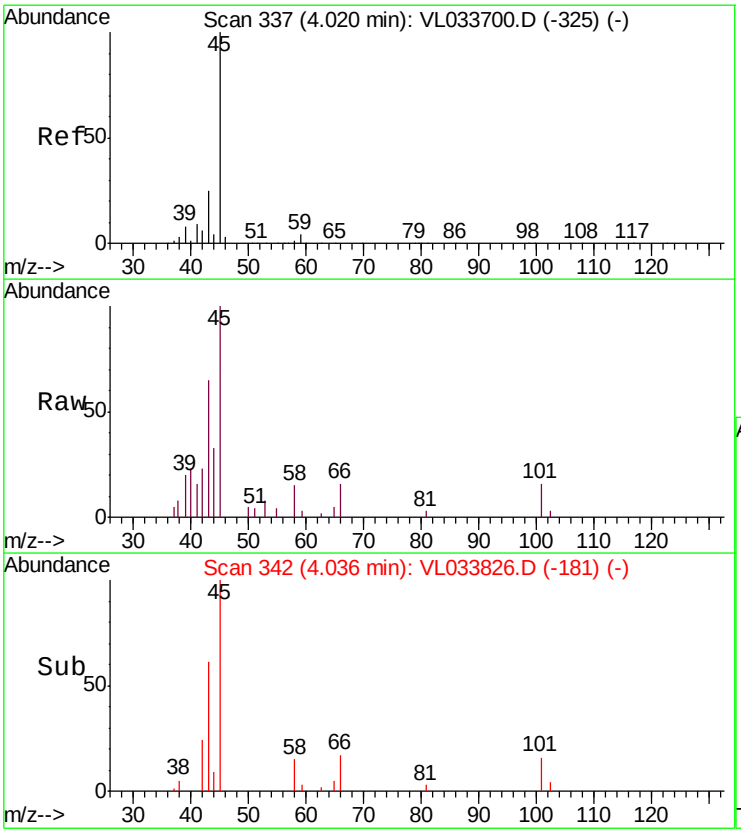

#17
tert-Butyl alcohol
Concen: 0.094 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion: 59 Resp: 7701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 26.5 | 8.4 | 12.6# |

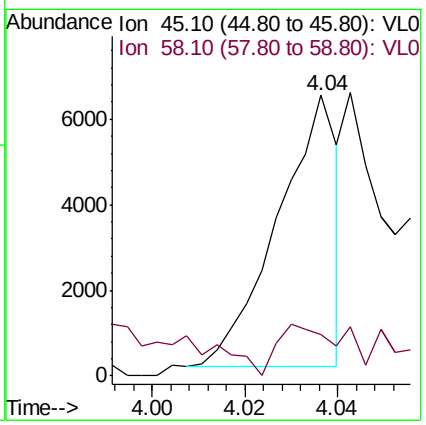


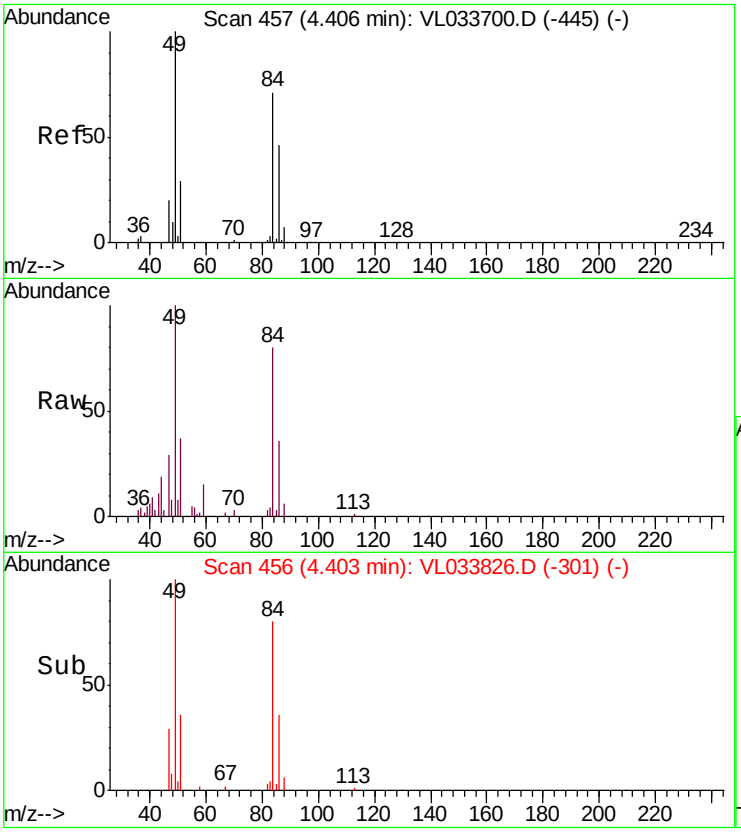




#19
Isopropyl Alcohol
Concen: 0.087 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.02 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 45 Resp: 5691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 0.0 | 1.6 | 2.4# |



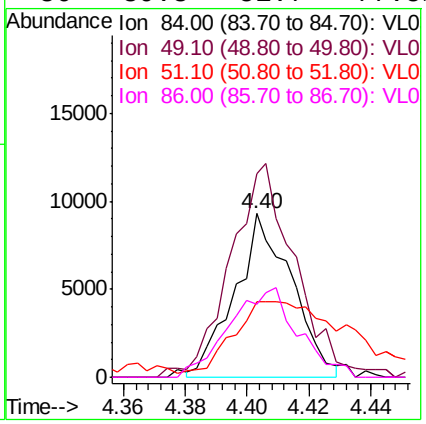


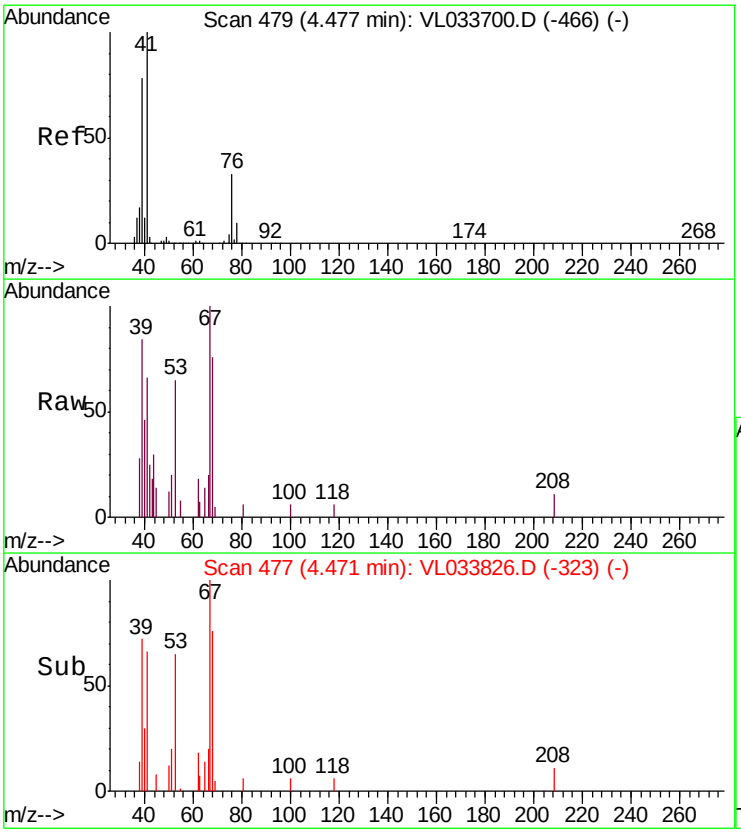

#20
Methylene Chloride
Concen: 0.305 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :** MSVOA_L
**ClientSampleId :** BPS1-SG-3010-55

Tgt Ion: 84 Resp: 11895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 120.1 | 112.8 | 169.2 |
| 51 | 44.1 | 33.4 | 50.0 |
| 86 | 39.3 | 51.7 | 77.5# |

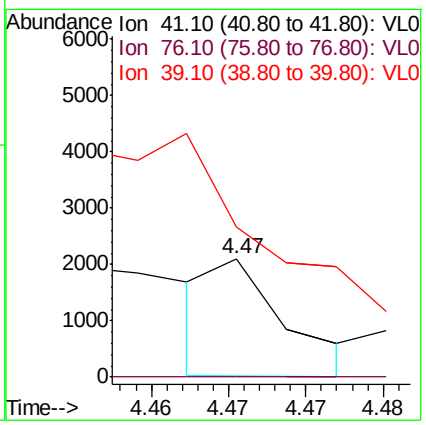


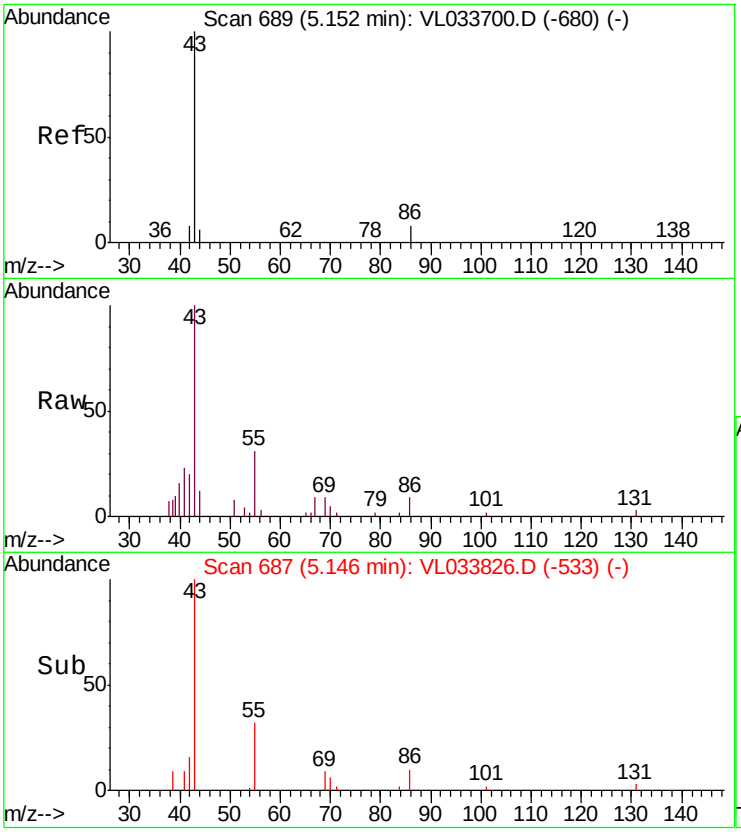




#21
Allyl Chloride
Concen: 0.011 ppbv
RT: 4.47 min Scan# 477
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 41 Resp: 674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 25.9 | 38.9# |
| 39 | 1792.4 | 64.6 | 97.0# |



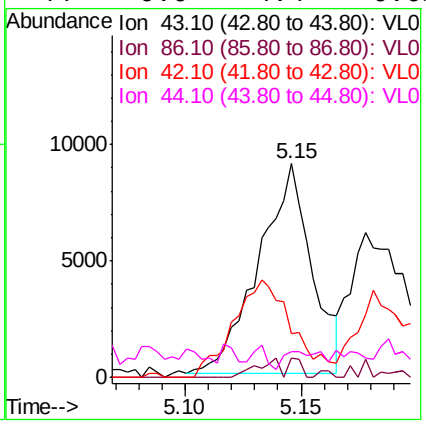


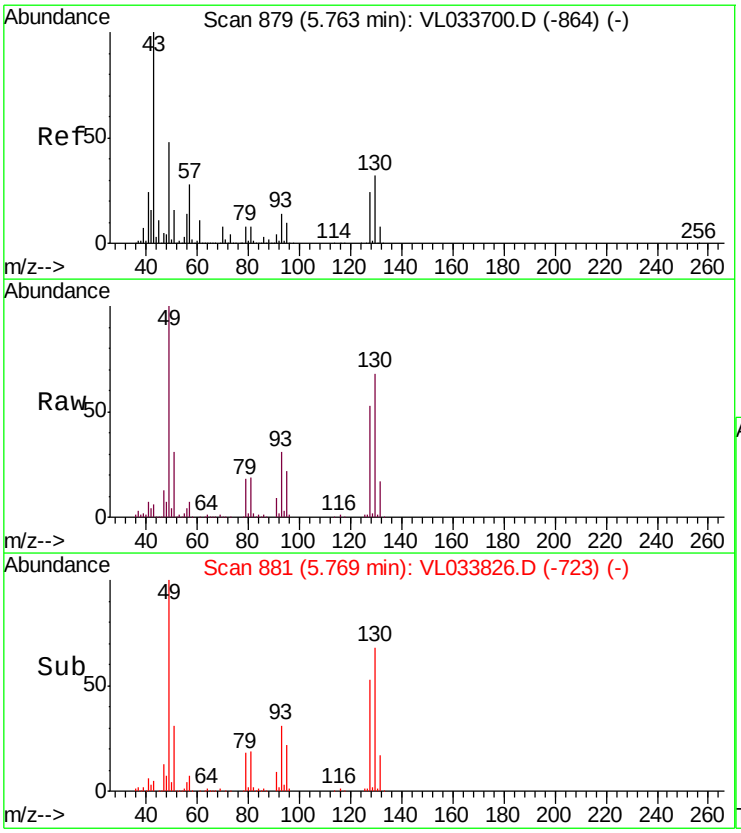

#23
Vinyl Acetate
Concen: 0.106 ppbv
RT: 5.15 min Scan# 687
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion: 43 Resp: 14196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.4 | 6.0 | 9.0# |
| 42 | 20.9 | 7.5 | 11.3# |
| 44 | 0.0 | 4.4 | 6.6# |

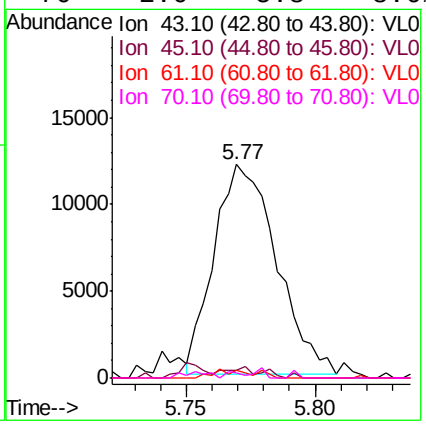


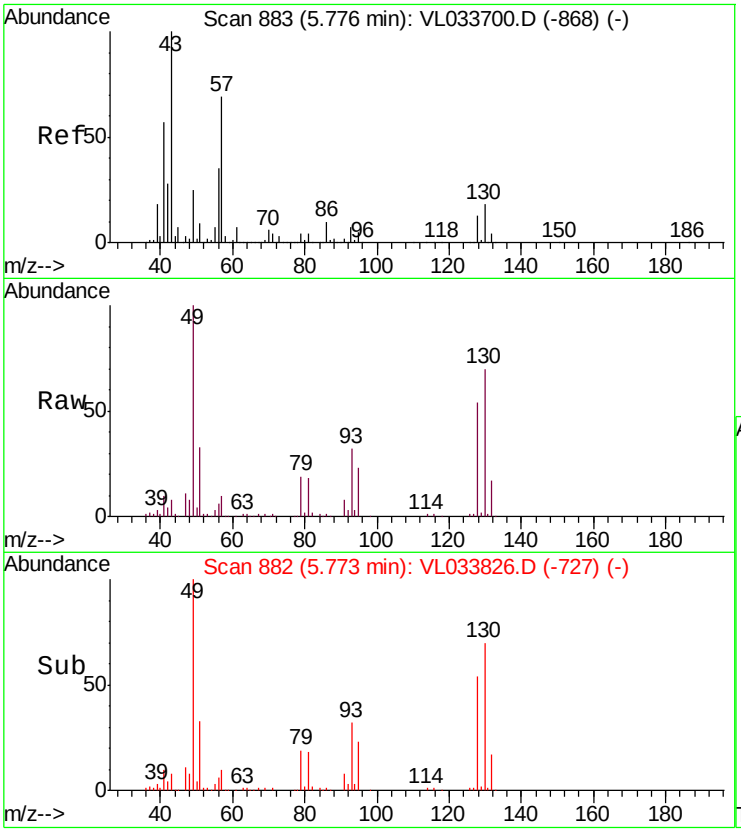




#25
Ethyl Acetate
Concen: 0.116 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 43 Resp: 20557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.6 | 7.9 | 11.9# |
| 61 | 2.5 | 7.7 | 11.5# |
| 70 | 2.0 | 5.8 | 8.6# |



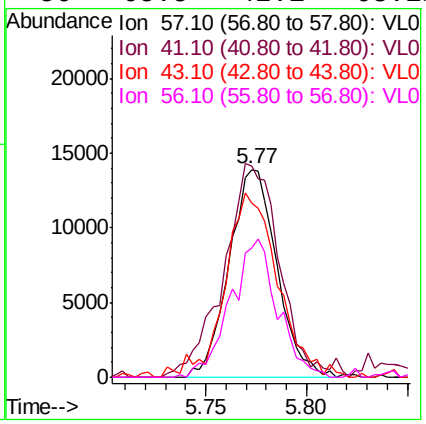


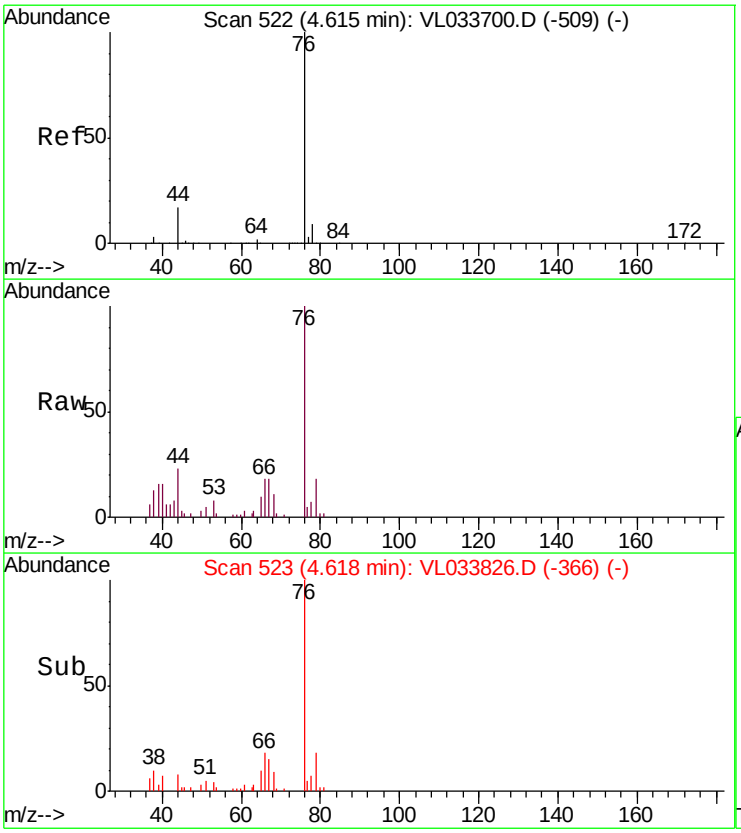

#26
Hexane
Concen: 0.301 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion: 57 Resp: 23035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 123.0 | 69.8 | 104.6# |
| 43 | 98.2 | 181.8 | 272.6# |
| 56 | 65.5 | 42.1 | 63.1# |

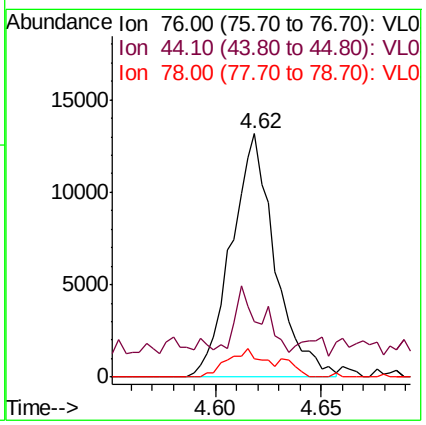


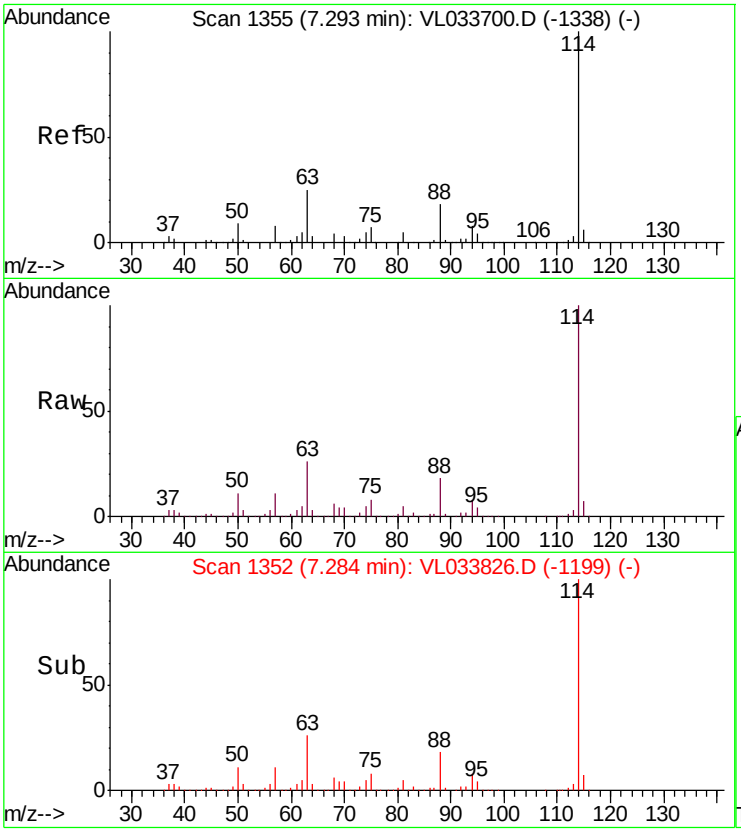




#27
Carbon Disulfide
Concen: 0.180 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 76 Resp: 18904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 24.9 | 13.8 | 20.8# |
| 78 | 12.3 | 7.4 | 11.0# |



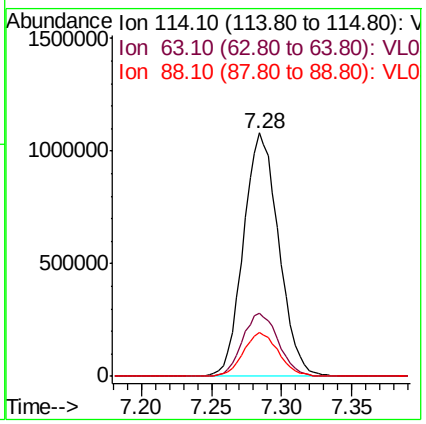


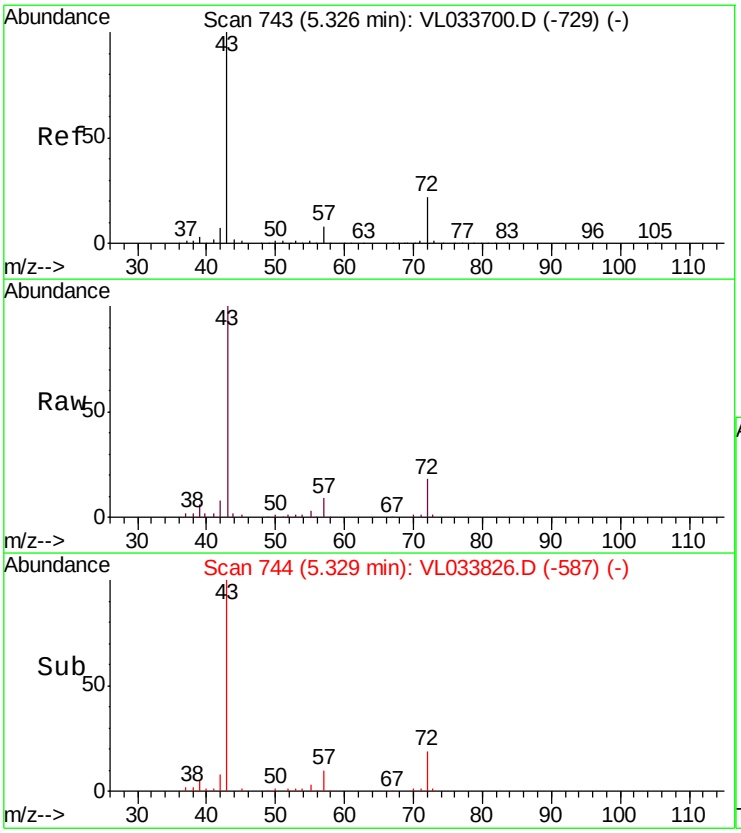

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion:114 Resp: 1896896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 26.3 | 20.9 | 31.3 |
| 88 | 17.8 | 14.3 | 21.5 |

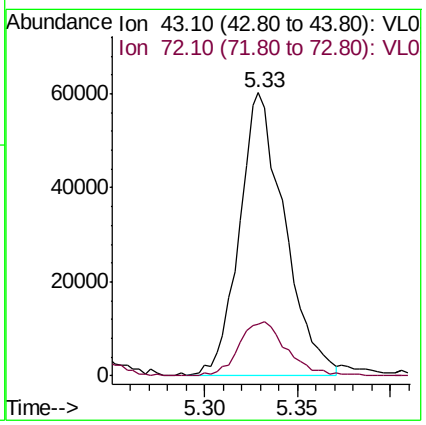


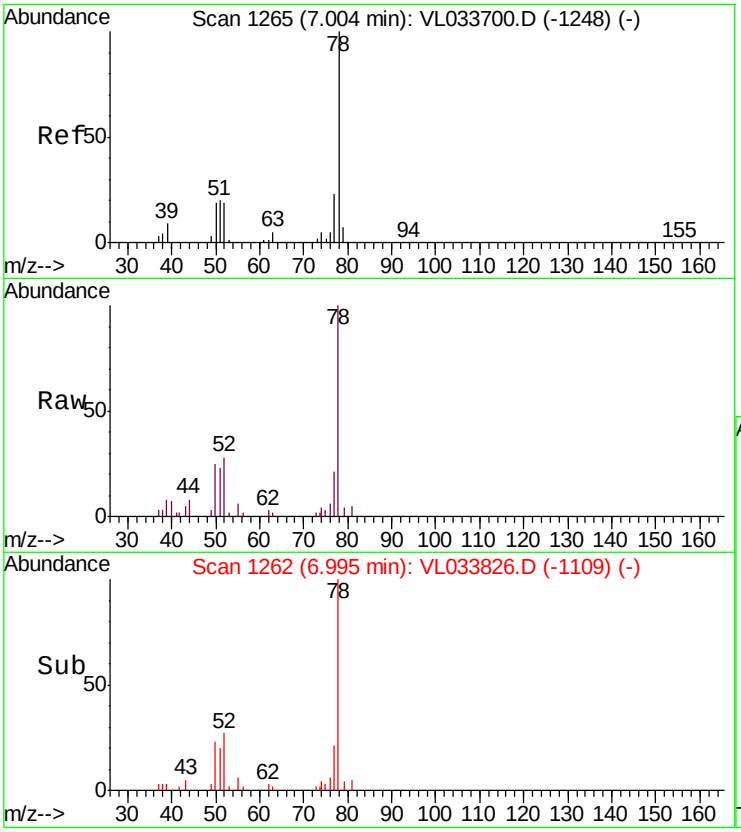




#34
2-Butanone
Concen: 0.869 ppbv
RT: 5.33 min Scan# 744
Delta R.T. 0.00 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 43 Resp: 102117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.4 | 17.8 | 26.6 |



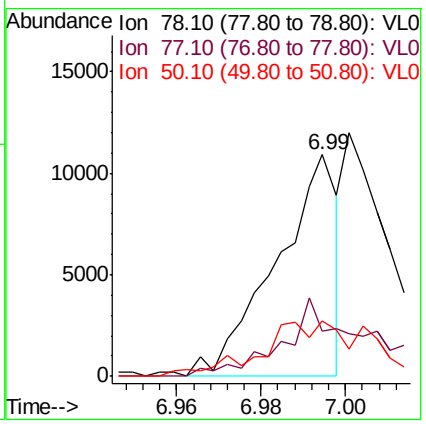


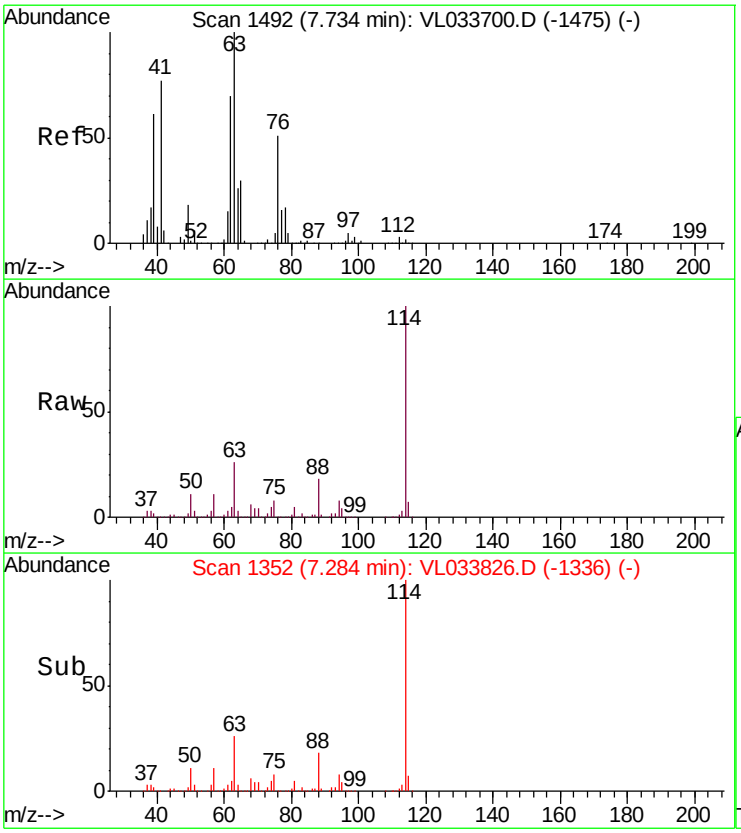

#36
Benzene
Concen: 0.063 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :** MSVOA_L
**ClientSampleId :** BPS1-SG-3010-55

Tgt Ion: 78 Resp: 10929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 20.7 | 18.4 | 27.6 |
| 50 | 22.3 | 15.5 | 23.3 |

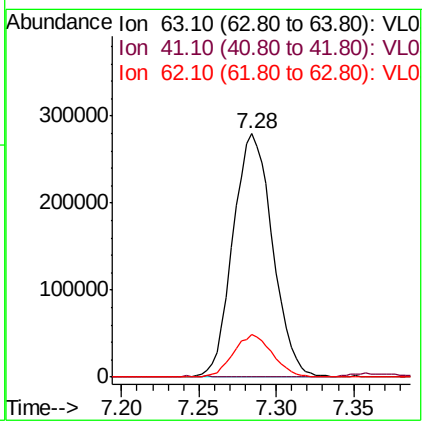


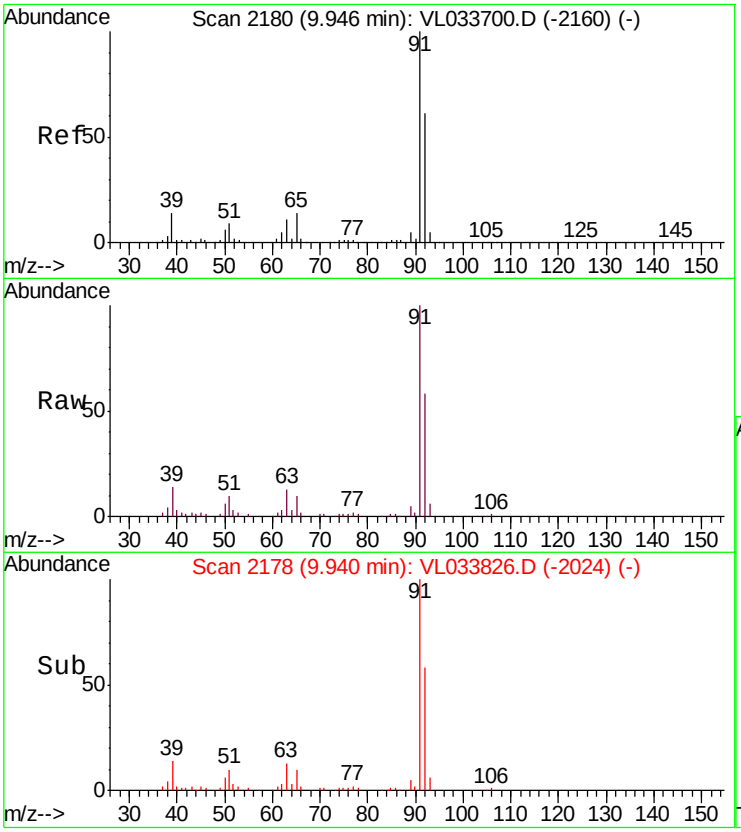




#39
1,2-Dichloropropane
Concen: 7.748 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.45 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 63 Resp: 498466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 61.5 | 92.3# |
| 62 | 17.5 | 56.2 | 84.4# |



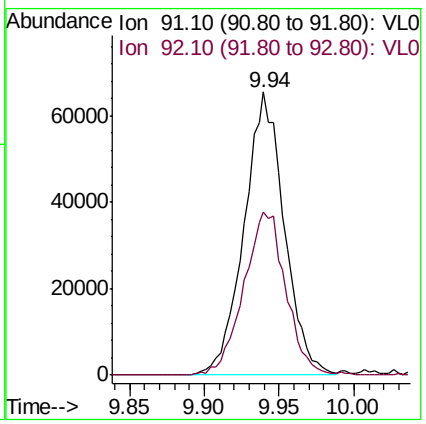


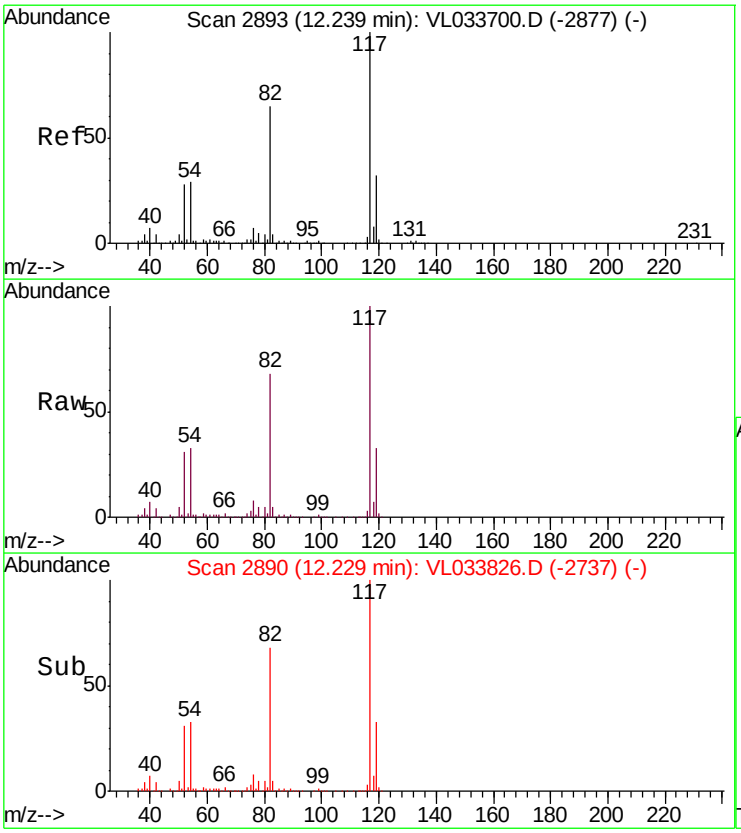

#53
Toluene
Concen: 0.656 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :** MSVOA_L
**ClientSampleId :** BPS1-SG-3010-55

Tgt Ion: 91 Resp: 122065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.7 | 47.6 | 71.4 |

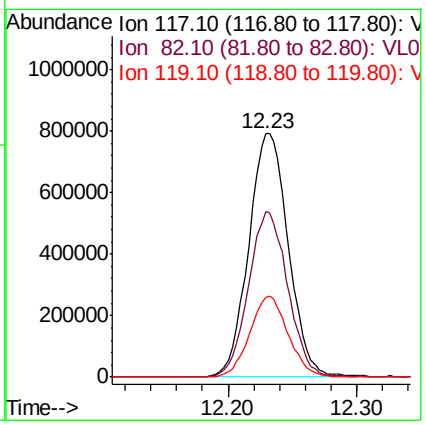


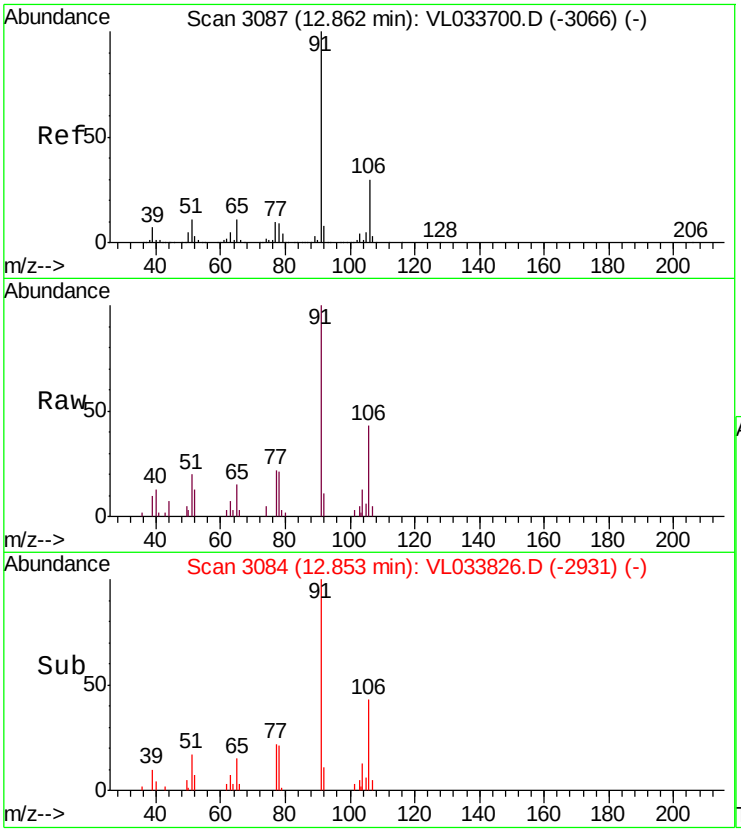




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion:117 Resp: 1689913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 68.3 | 49.4 | 74.0 |
| 119 | 32.5 | 24.9 | 37.3 |



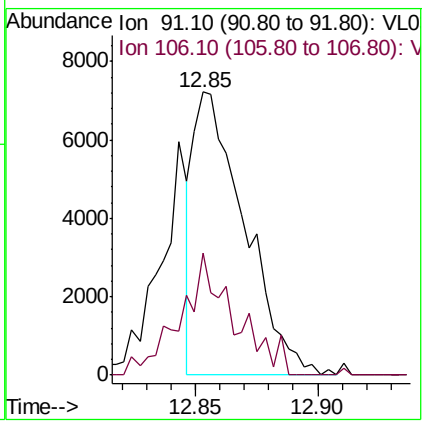


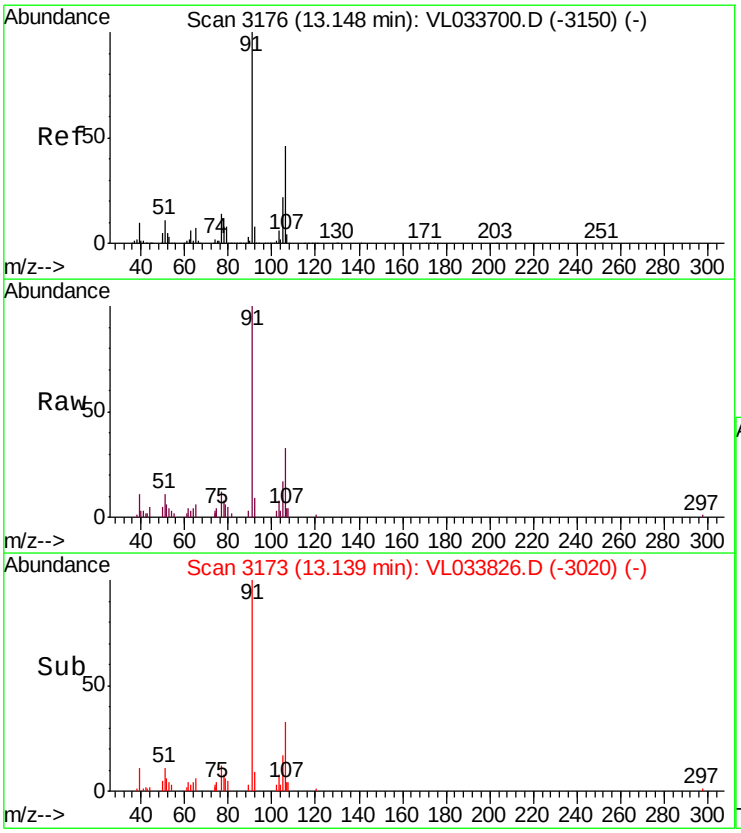

#58
Ethyl Benzene
Concen: 0.047 ppbv
RT: 12.85 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :** MSVOA_L
**ClientSampleId :** BPS1-SG-3010-55

Tgt Ion: 91 Resp: 10477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.1 | 23.9 | 35.9# |

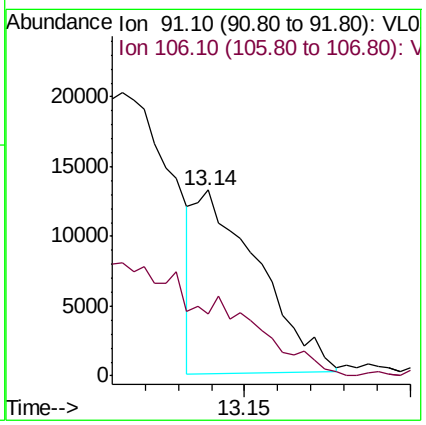


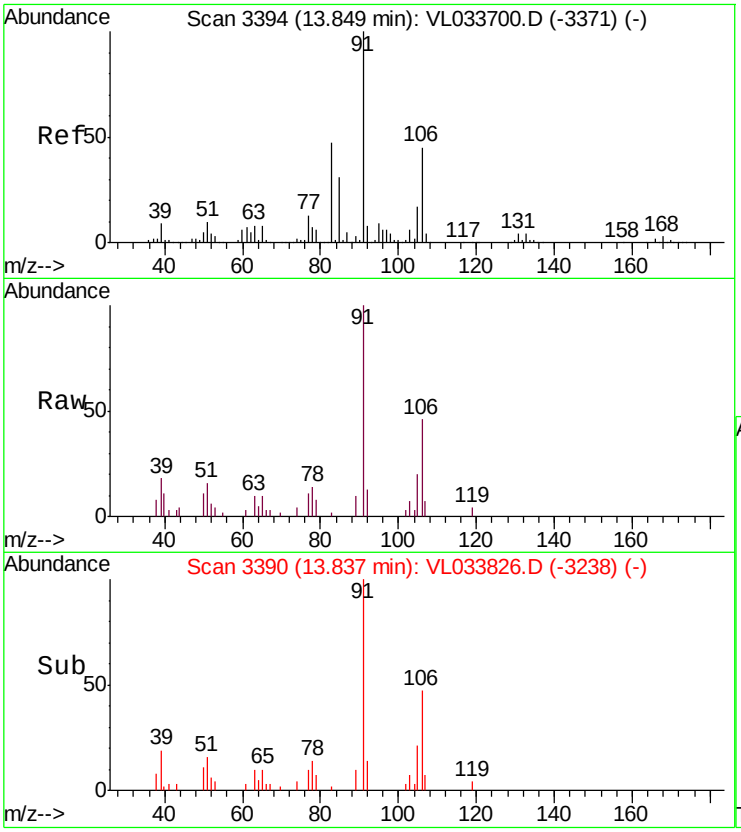




#59
m/p-Xylene
Concen: 0.091 ppbv
RT: 13.14 min Scan# 3173
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 91 Resp: 17759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 35.8 | 53.6# |



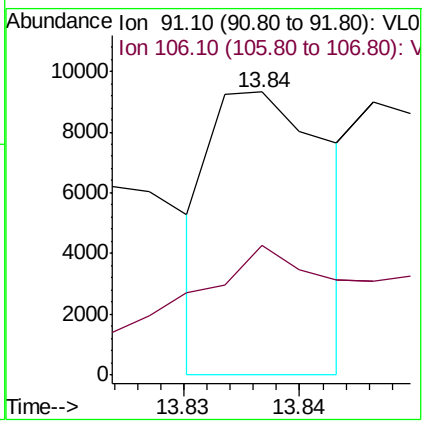


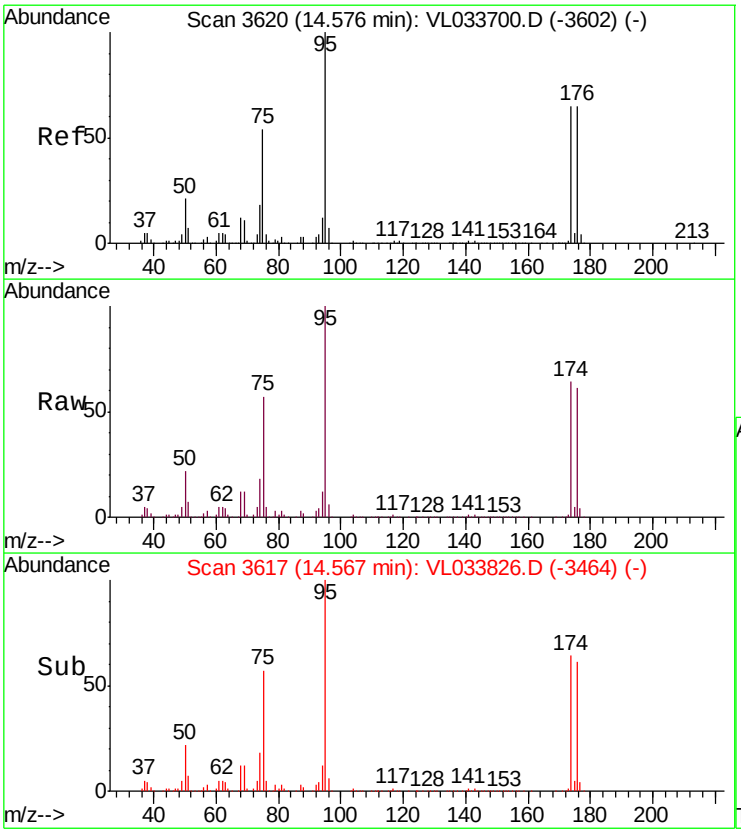

#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion: 91 Resp: 6604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 124.1 | 21.6 | 64.8# |

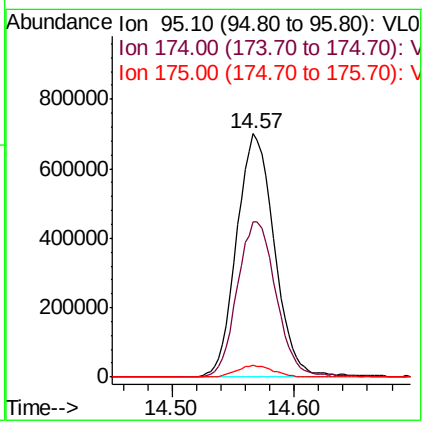


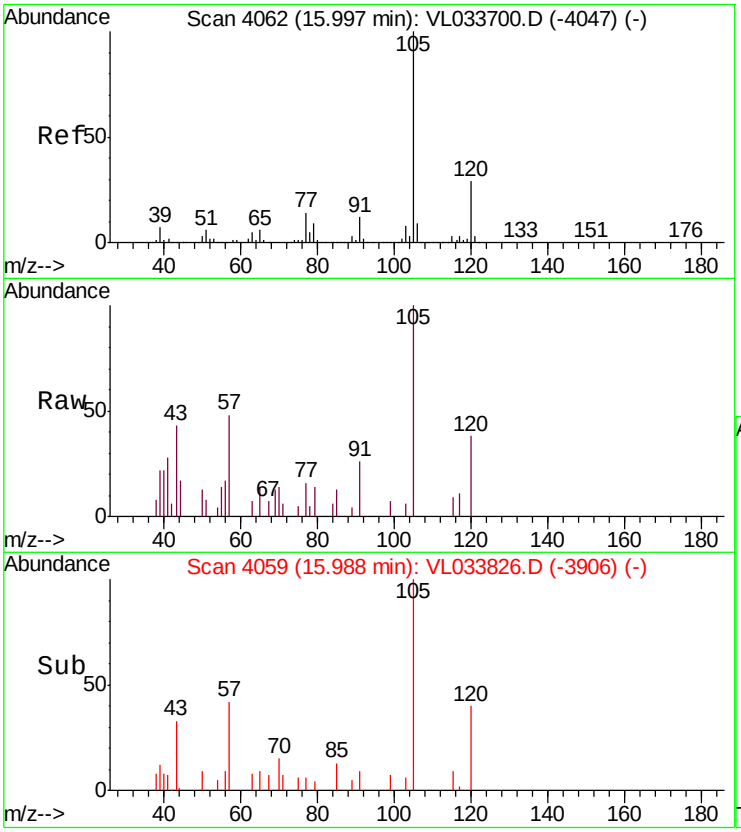




#68
1-Bromo-4-Fluorobenzene
Concen: 10.920 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion: 95 Resp: 1495983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.4 | 53.9 | 80.9 |
| 175 | 4.8 | 3.8 | 5.8 |



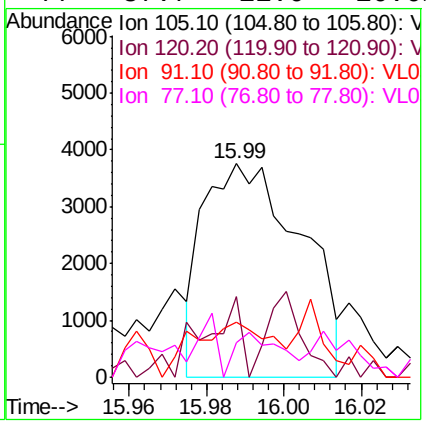


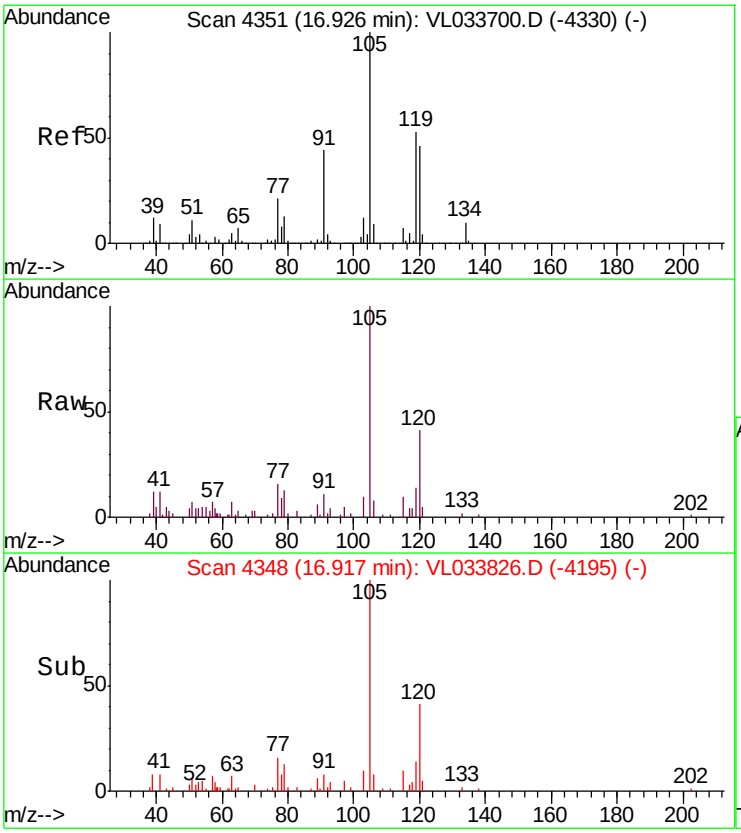

#72
4-Ethyltoluene
Concen: 0.029 ppbv
RT: 15.99 min Scan# 4059
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion:105 Resp: 6581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 0.0 | 23.1 | 34.7# |
| 91 | 0.0 | 10.4 | 15.6# |
| 77 | 37.7 | 11.0 | 16.6# |

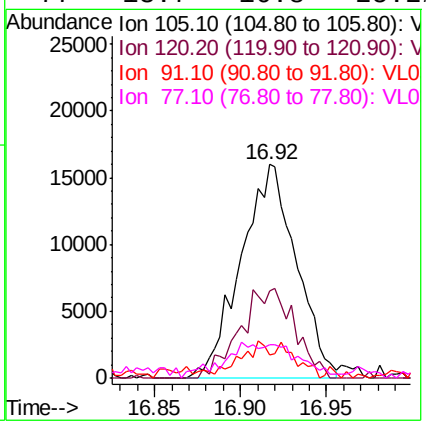


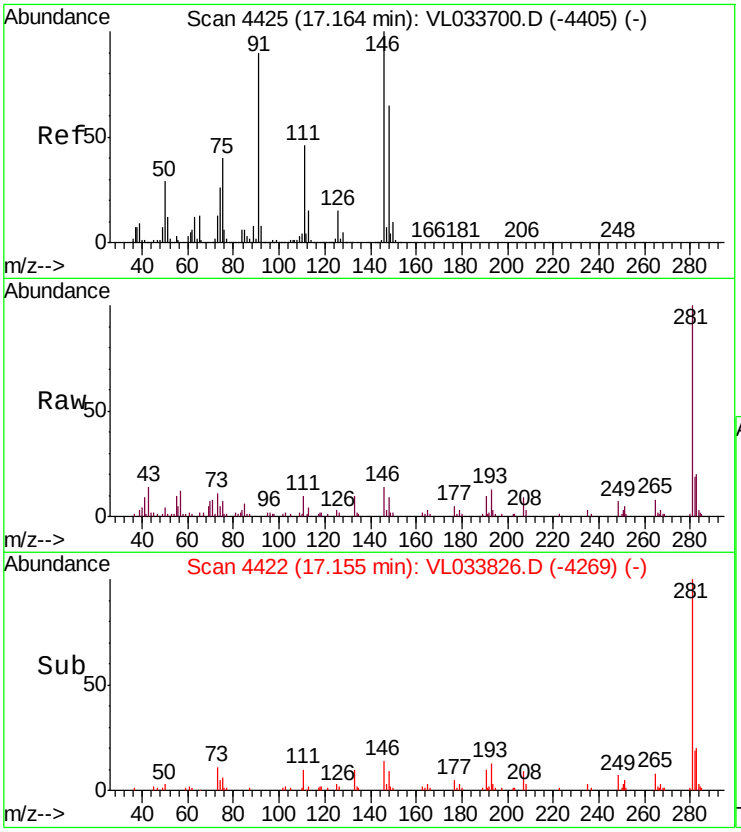




#74
1,2,4-Trimethylbenzene
Concen: 0.149 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

Tgt Ion:105 Resp: 35601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.0 | 36.8 | 55.2 |
| 91 | 8.6 | 35.4 | 53.0# |
| 77 | 13.7 | 16.8 | 25.2# |






#75
1,3-Dichlorobenzene
Concen: 0.024 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. -0.01 min
Lab File: VL033826.D
Acq: 29 May 2019 6:22

**Instrument :**
MSVOA_L
**ClientSampleId :**
BPS1-SG-3010-55

Tgt Ion:146 Resp: 3521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 0.0 | 22.9 | 68.8# |
| 148 | 181.9 | 32.0 | 96.2# |