Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD040919\
Data File : VD061693.D
Acq On : 9 Apr 2019 23:44
Operator : VA/AP
Sample : K2316-10
Misc : 5.04g/5ml/MSVOA_D/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

Quant Time: Apr 10 09:30:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Pentafluorobenzene | 7.08 | 168 | 374780 | 50.00 | ug/l | | 0.04 |
| 34) 1,4-Difluorobenzene | 8.25 | 114 | 642661 | 50.00 | ug/l | | 0.04 |
| 63) Chlorobenzene-d5 | 12.38 | 117 | 399874 | 50.00 | ug/l | | 0.02 |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152 | 116025 | 50.00 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 7.48 | 65 | 188112 | 66.22 | ug/l | | 0.03 |
| Spiked Amount 50.000 | | | Recovery = 132.44% | | | | |
| 35) Dibromofluoromethane | 0.00 | 113 | 0 | 0.00 | ug/l | | |
| Spiked Amount 50.000 | | | Recovery = 0.00% | | | | |
| 50) Toluene-d8 | 10.43 | 98 | 602622 | 53.87 | ug/l | | 0.03 |
| Spiked Amount 50.000 | | | Recovery = 107.74% | | | | |
| 62) 4-Bromofluorobenzene | 13.56 | 95 | 176309m | 43.66 | ug/l | | 0.01 |
| Spiked Amount 50.000 | | | Recovery = 87.32% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 16) Acetone | 3.24 | 43 | 70554 | 83.082 | ug/l | | 100 |
| 17) Carbon Disulfide | 3.42 | 76 | 173055 | 13.632 | ug/l | | 98 |
| 20) Methylene Chloride | 3.85 | 84 | 25792 | 5.352 | ug/l | | 97 |
| 25) 2-Butanone | 6.10 | 43 | 15474 | 15.806 | ug/l | | 97 |
| 40) Benzene | 7.49 | 78 | 51140 | 3.769 | ug/l | | 97 |
| 65) Chlorobenzene | 12.41 | 112 | 27642 | 3.486 | ug/l | | 94 |
| 67) Ethyl Benzene | 12.54 | 91 | 26569 | 2.200 | ug/l | | 96 |
| 68) m/p-Xylenes | 12.68 | 106 | 15774 | 3.388 | ug/l | | 100 |
| 69) o-Xylene | 13.06 | 106 | 13151 | 2.926 | ug/l | | 96 |
| 73) Isopropylbenzene | 13.42 | 105 | 107332 | 13.884 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.85 | 91 | 92520 | 17.495 | ug/l | | 89 |
| 80) 1,3,5-Trimethylbenzene | 13.95 | 105 | 11464 | 1.868 | ug/l | | 100 |
| 83) tert-Butylbenzene | 14.20 | 119 | 32752 | 4.427 | ug/l | | 93 |
| 84) 1,2,4-Trimethylbenzene | 14.24 | 105 | 23242 | 3.753 | ug/l | | 86 |
| 86) p-Isopropyltoluene | 14.50 | 119 | 7186 | 1.036 | ug/l | # | 62 |
| 95) Naphthalene | 16.13 | 128 | 18061 | 7.039 | ug/l | # | 95 |

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

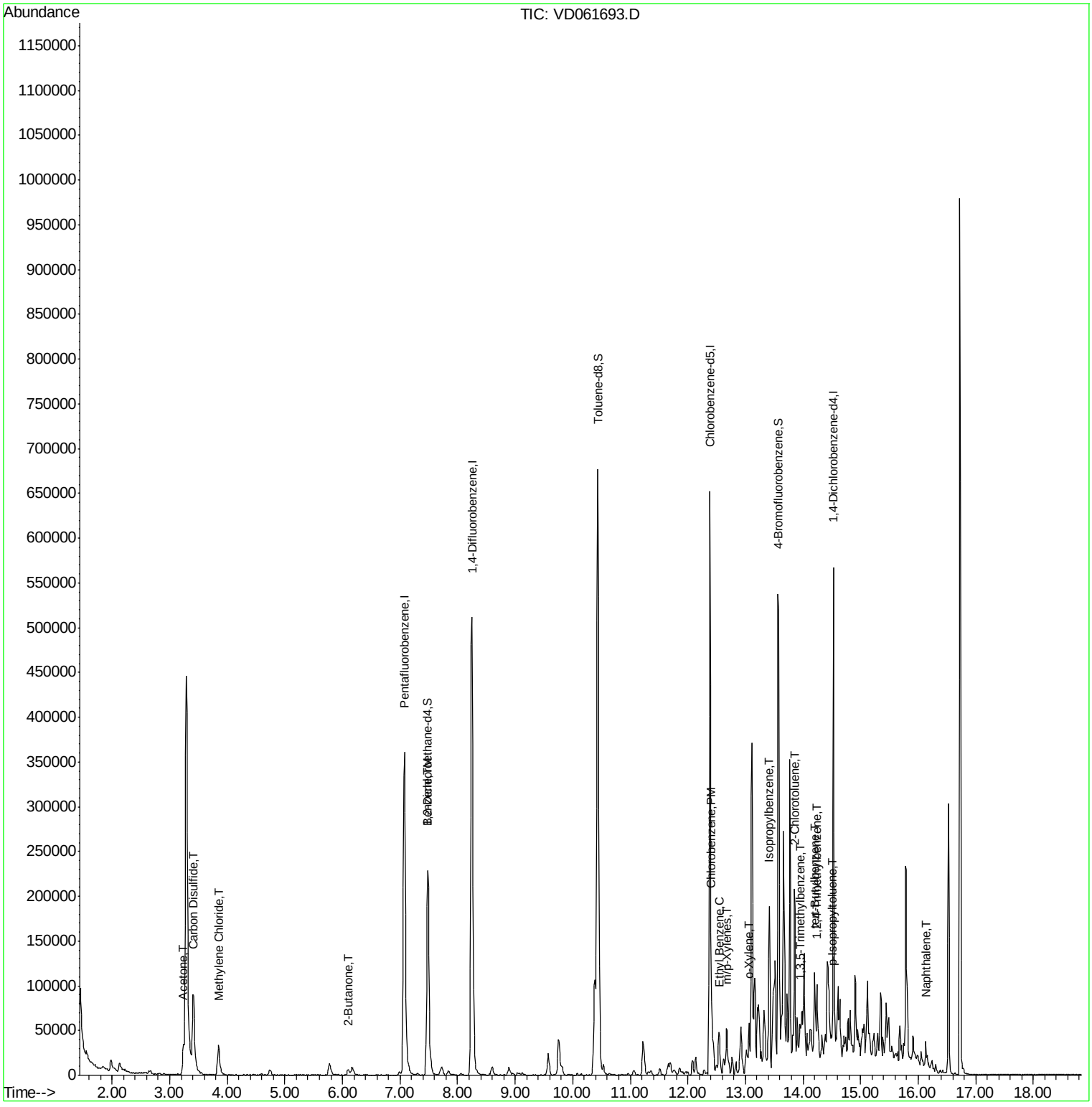
Quantitation Report (QT/LSC Reviewed)

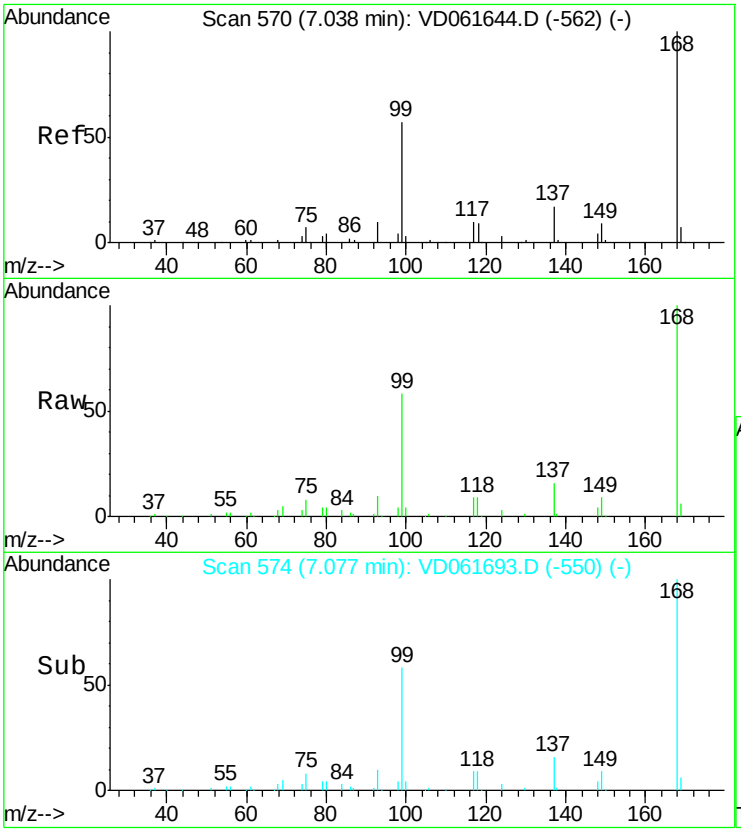
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD040919\
Data File : VD061693.D
Acq On : 9 Apr 2019 23:44
Operator : VA/AP
Sample : K2316-10
Misc : 5.04g/5ml/MSVOA_D/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 10 09:30:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

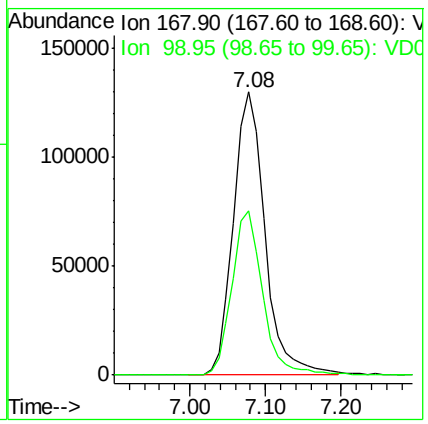





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.08 min Scan# 574
Delta R.T. 0.04 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

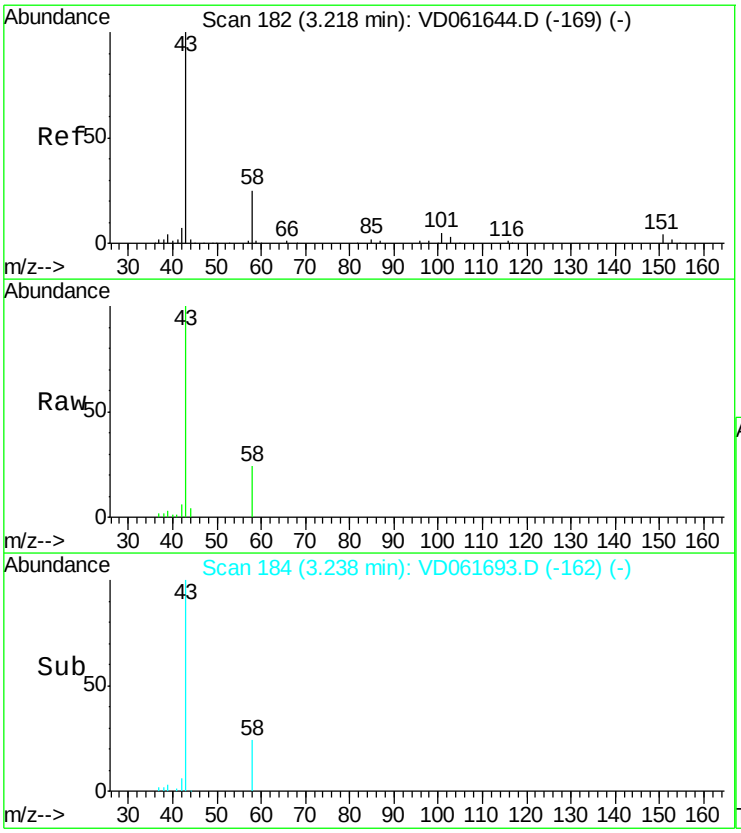
Tgt Ion:168 Resp: 374780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.9 | 46.8 | 70.2 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

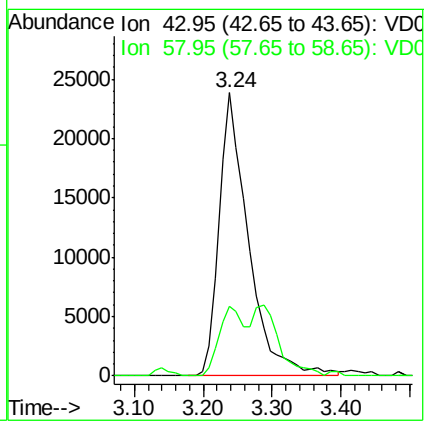
**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

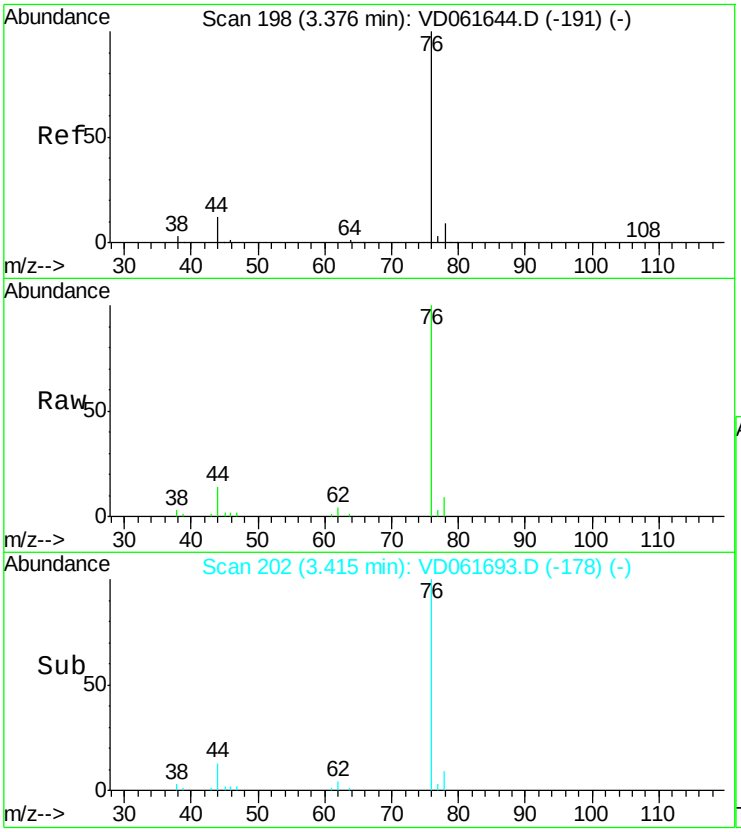



#16
Acetone
Concen: 83.082 ug/l
RT: 3.24 min Scan# 184
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 43 Resp: 70554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.5 | 19.7 | 29.5 |

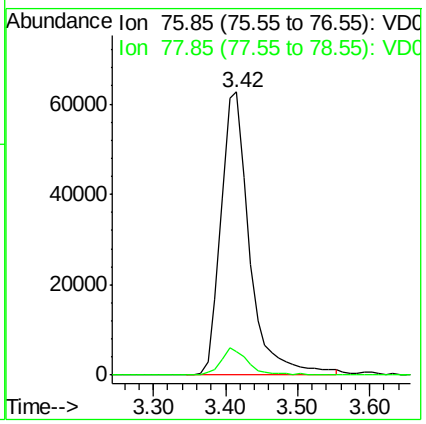





#17
Carbon Disulfide
Concen: 13.632 ug/l
RT: 3.42 min Scan# 202
Delta R.T. 0.04 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

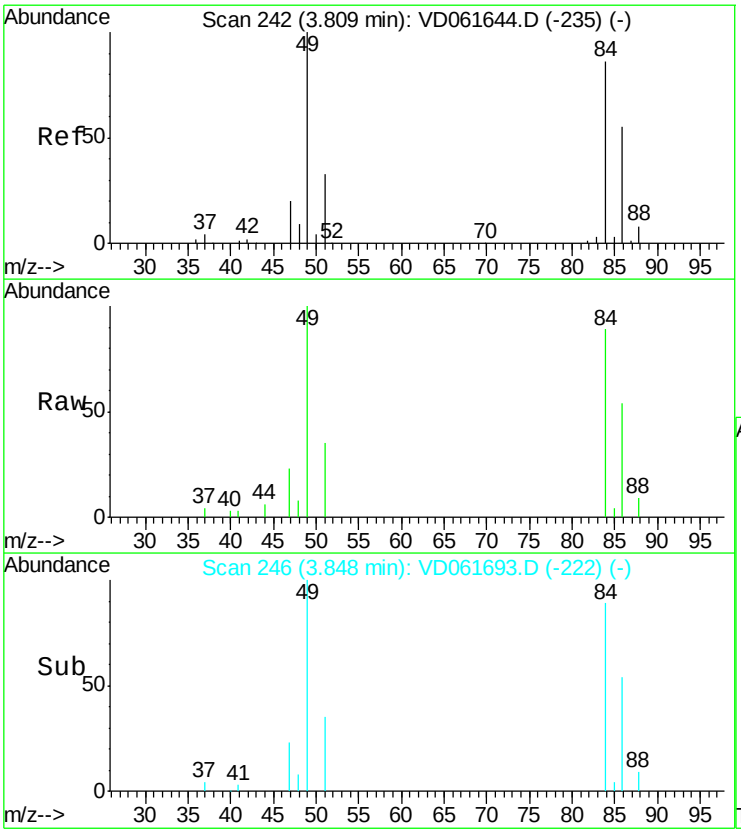
Tgt Ion: 76 Resp: 173055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.5 | 7.4 | 11.2 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

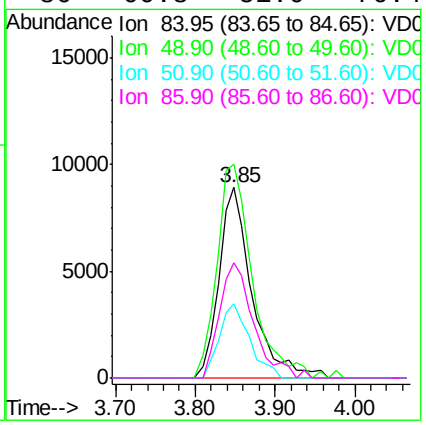
**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

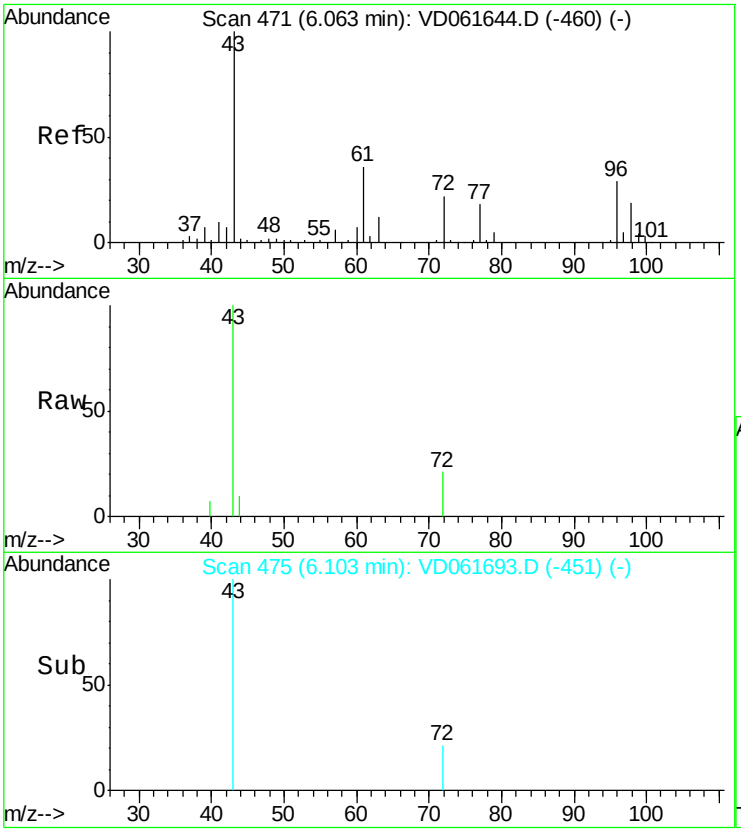



#20
Methylene Chloride
Concen: 5.352 ug/l
RT: 3.85 min Scan# 246
Delta R.T. 0.04 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 84 Resp: 25792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.3 | 93.0 | 139.4 |
| 51 | 38.8 | 30.4 | 45.6 |
| 86 | 60.8 | 51.0 | 76.4 |

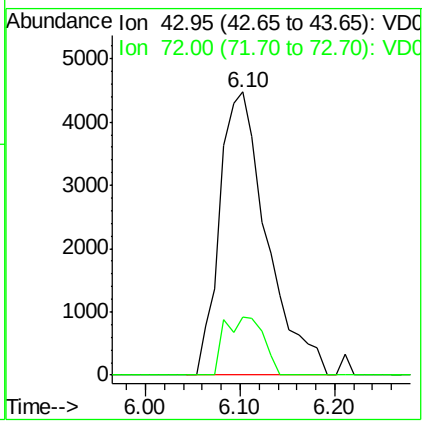





#25
2-Butanone
Concen: 15.806 ug/l
RT: 6.10 min Scan# 475
Delta R.T. 0.04 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 43 Resp: 15474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 20.5 | 17.4 | 26.2 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
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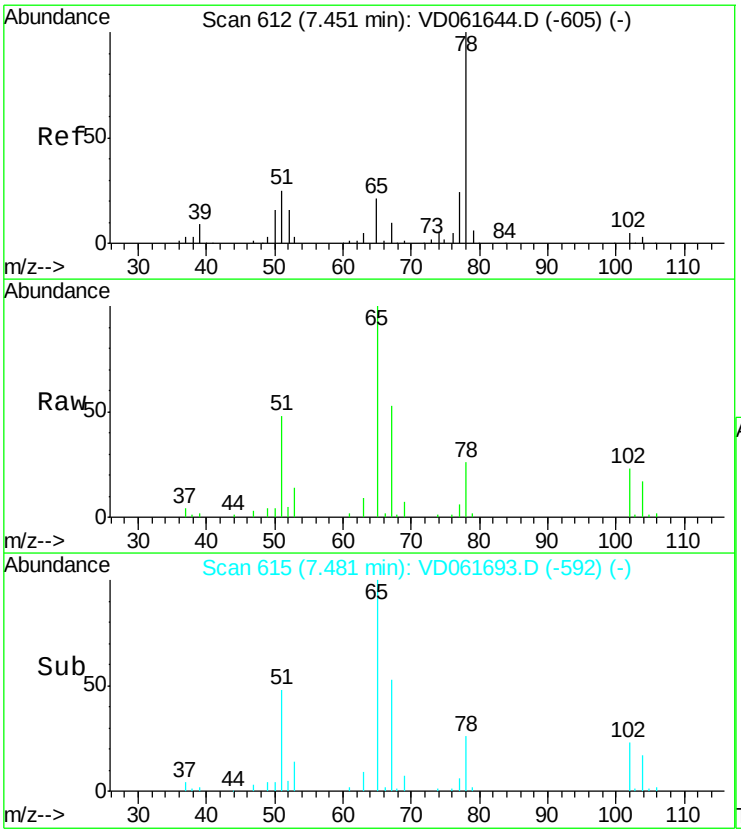
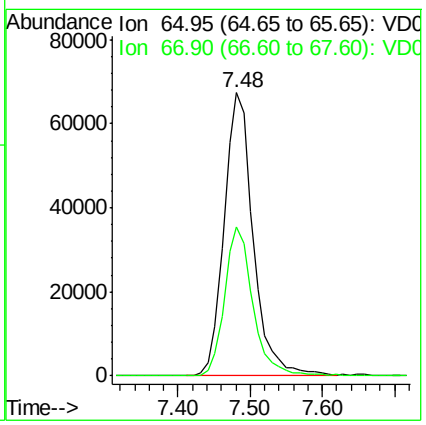
4/11/2019 3:00:07 AM

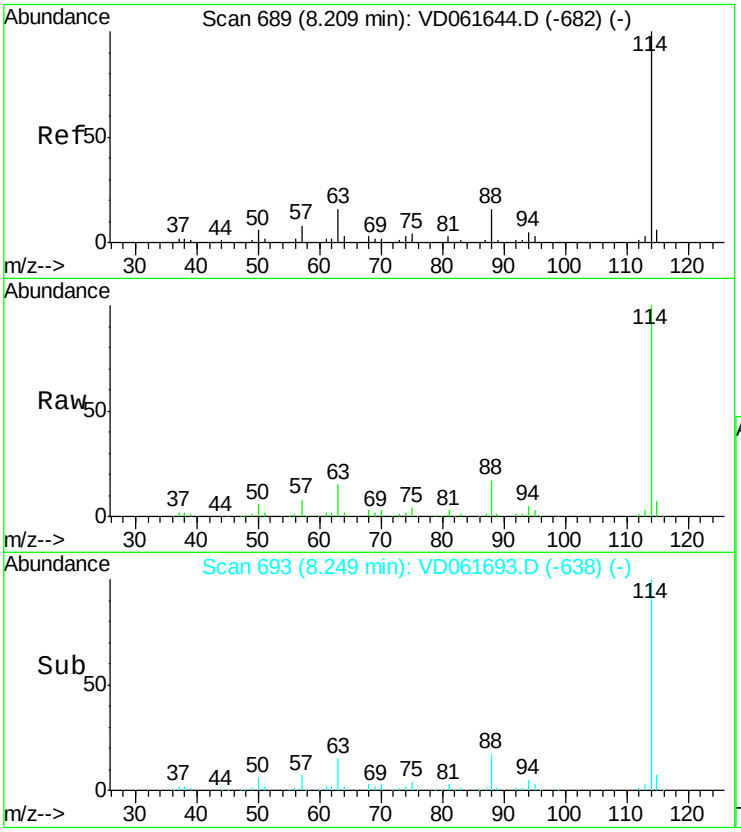



#33
1,2-Dichloroethane-d4
Concen: 66.218 ug/l
RT: 7.48 min Scan# 615
Delta R.T. 0.03 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 65 Resp: 188112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 99.4 |

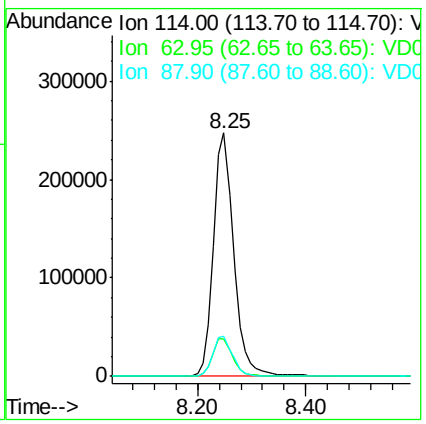





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.25 min Scan# 693
Delta R.T. 0.04 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

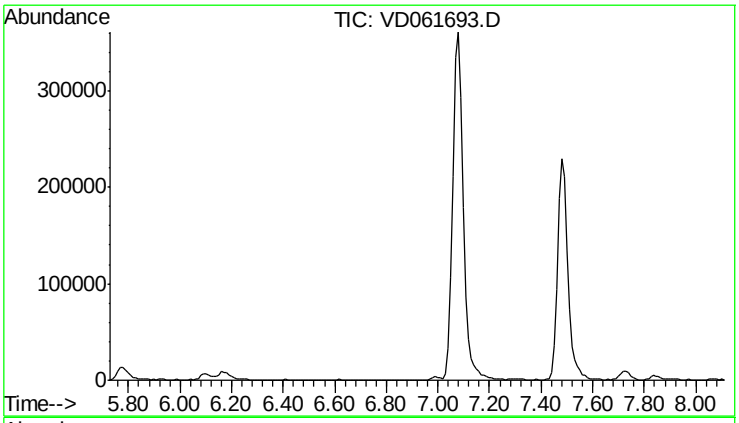
Tgt Ion:114 Resp: 642661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 15.4 | 0.0 | 31.2 |
| 88 | 16.6 | 0.0 | 31.8 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

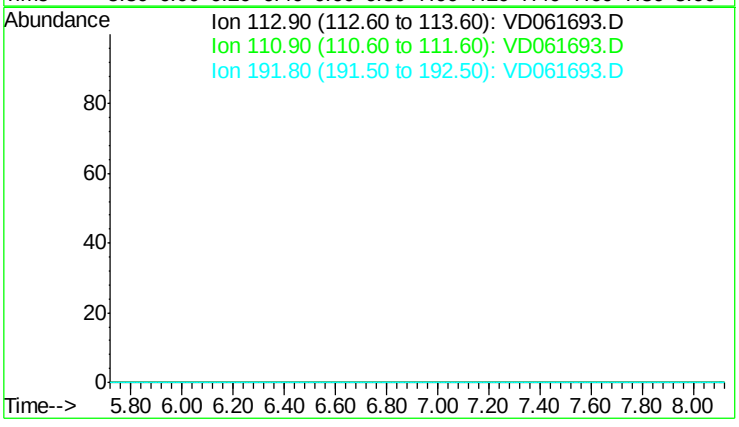


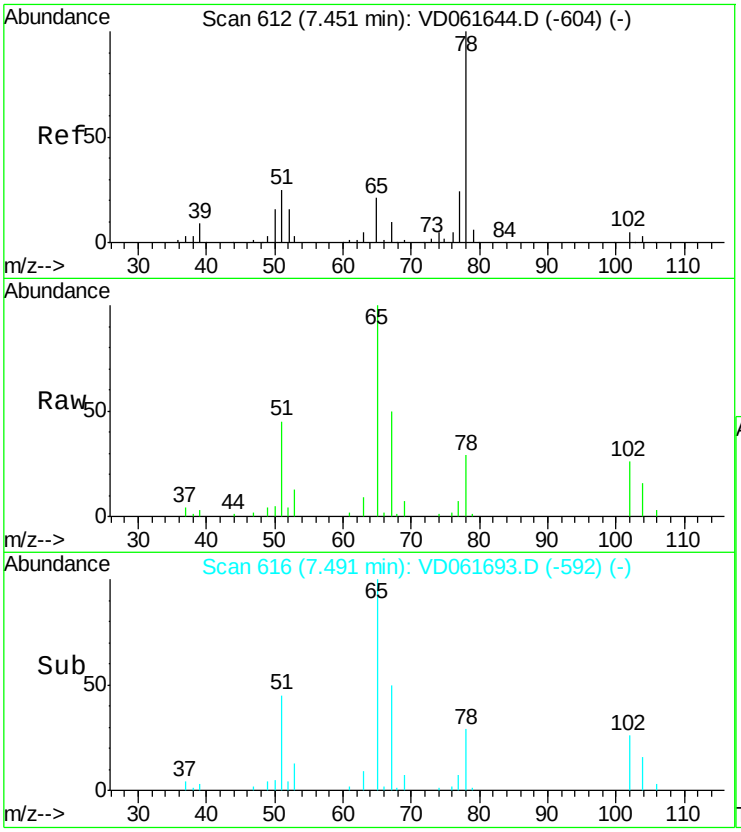

#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 6.92 min

Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 113

| Sig | Exp Ratio |
|---|---|
| 113 | 100 |
| 111 | 99.1 |
| 192 | 15.4 |

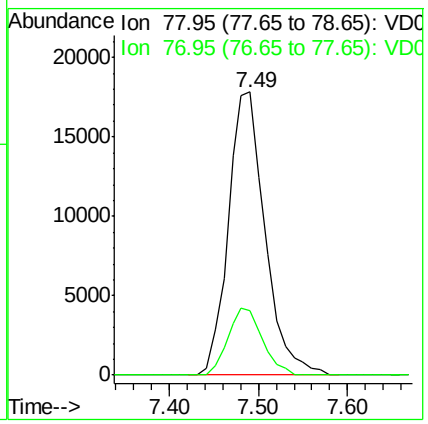





#40
Benzene
Concen: 3.769 ug/l
RT: 7.49 min Scan# 616
Delta R.T. 0.04 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

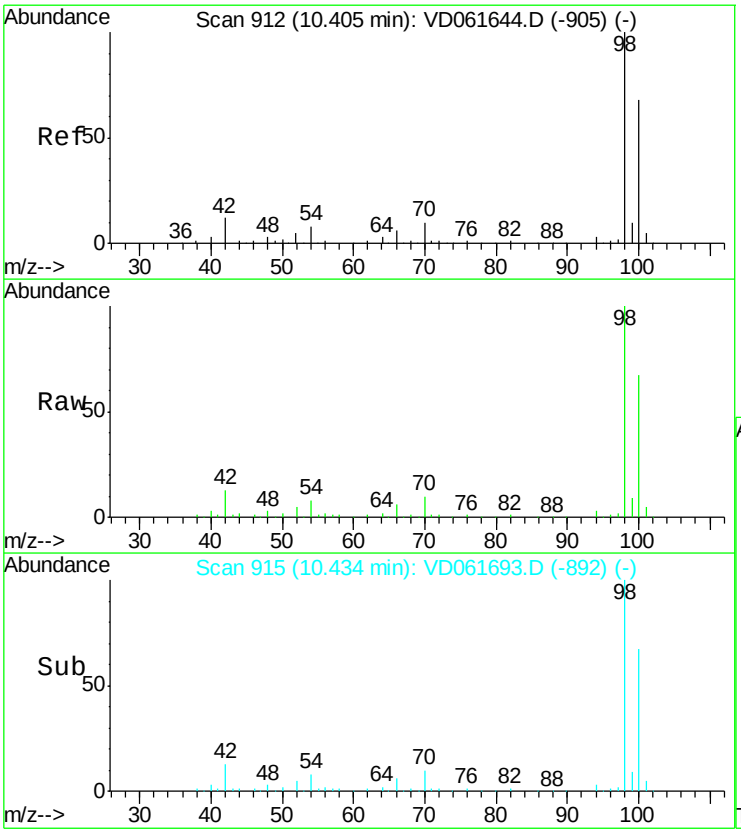
Tgt Ion: 78 Resp: 51140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.8 | 19.5 | 29.3 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

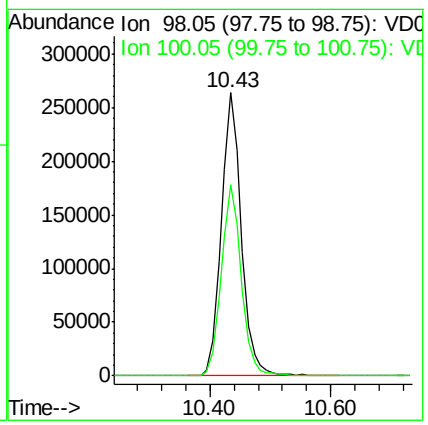
**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

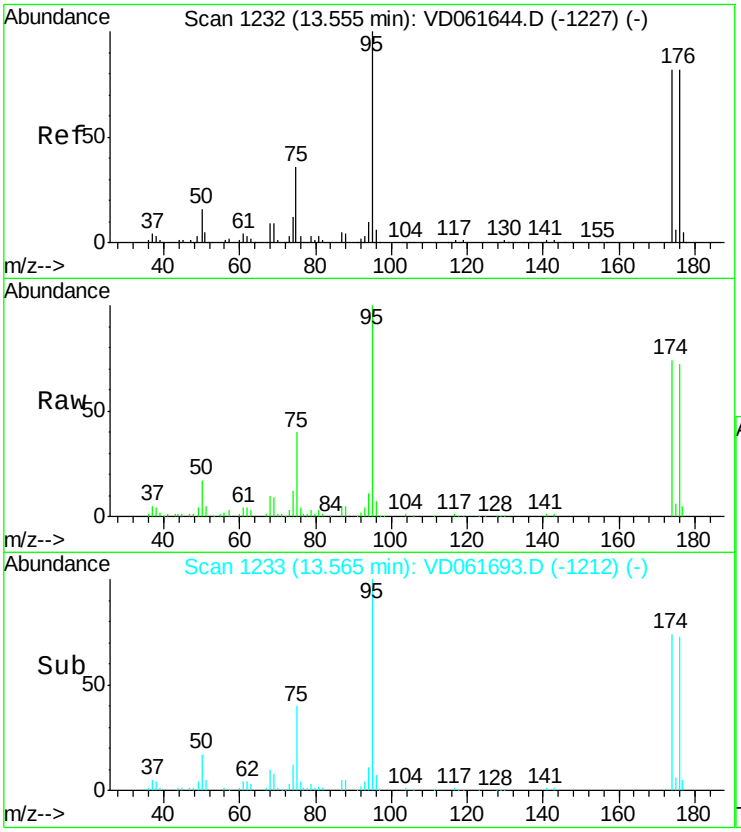



#50
Toluene-d8
Concen: 53.874 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 98 Resp: 602622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.4 | 55.4 | 83.0 |

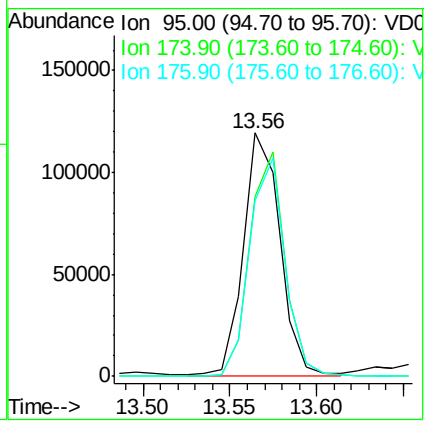





#62
4-Bromofluorobenzene
Concen: 43.663 ug/l m
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

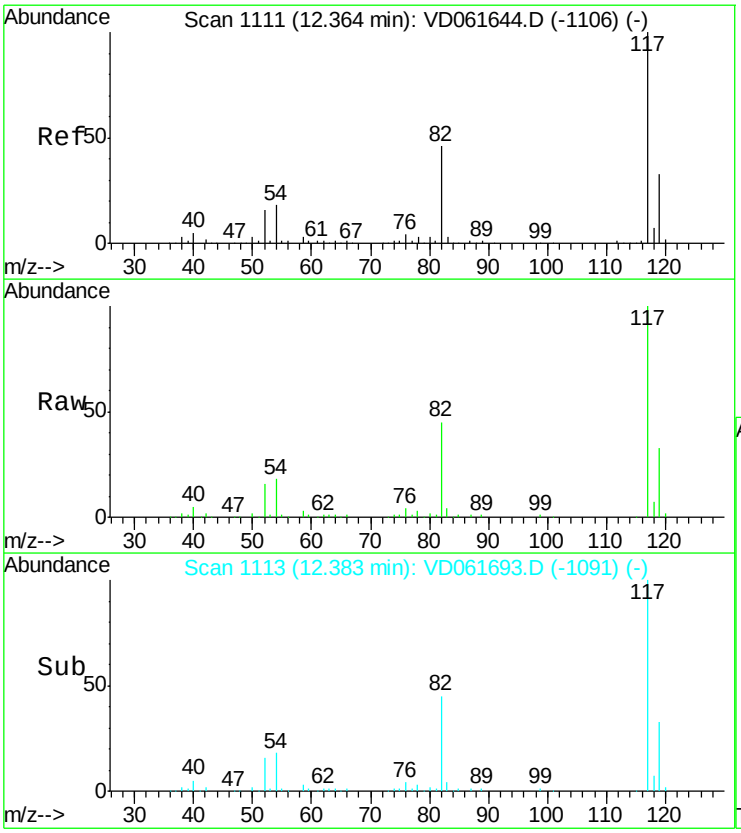
Tgt Ion: 95 Resp: 176309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 73.6 | 0.0 | 164.6 |
| 176 | 72.2 | 0.0 | 165.0 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

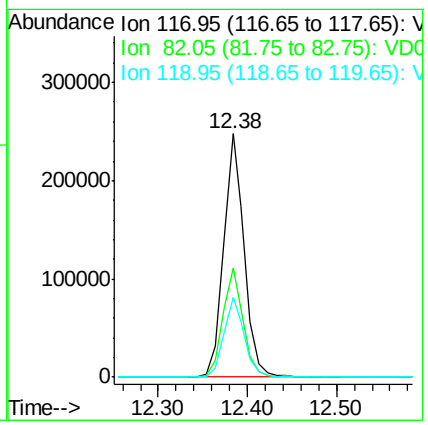
**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

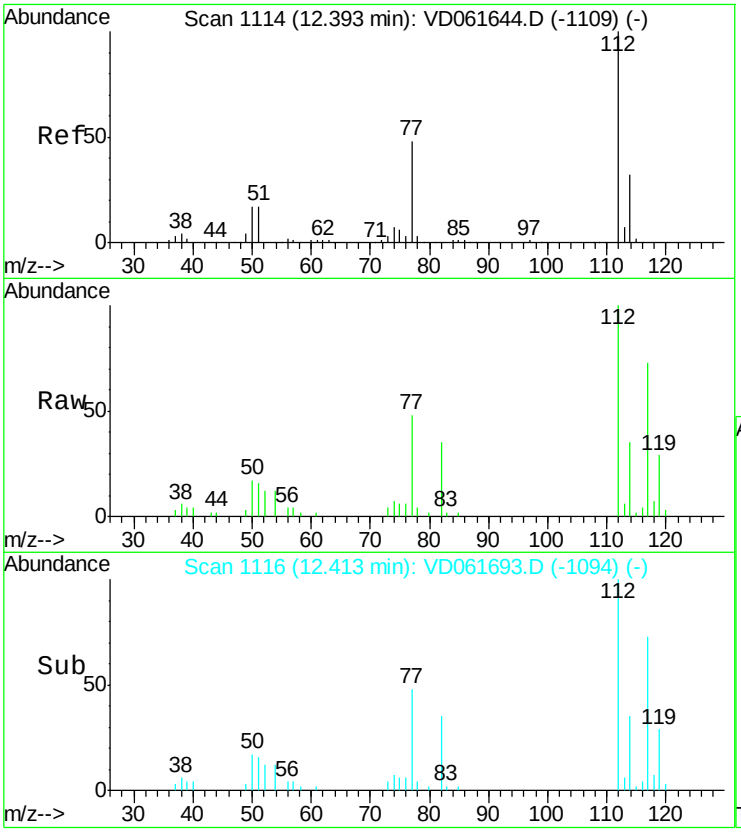



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:117 Resp: 399874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 44.6 | 36.8 | 55.2 |
| 119 | 33.0 | 26.1 | 39.1 |





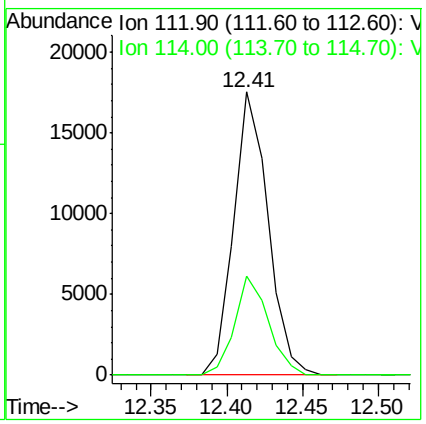

#65
Chlorobenzene
Concen: 3.486 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

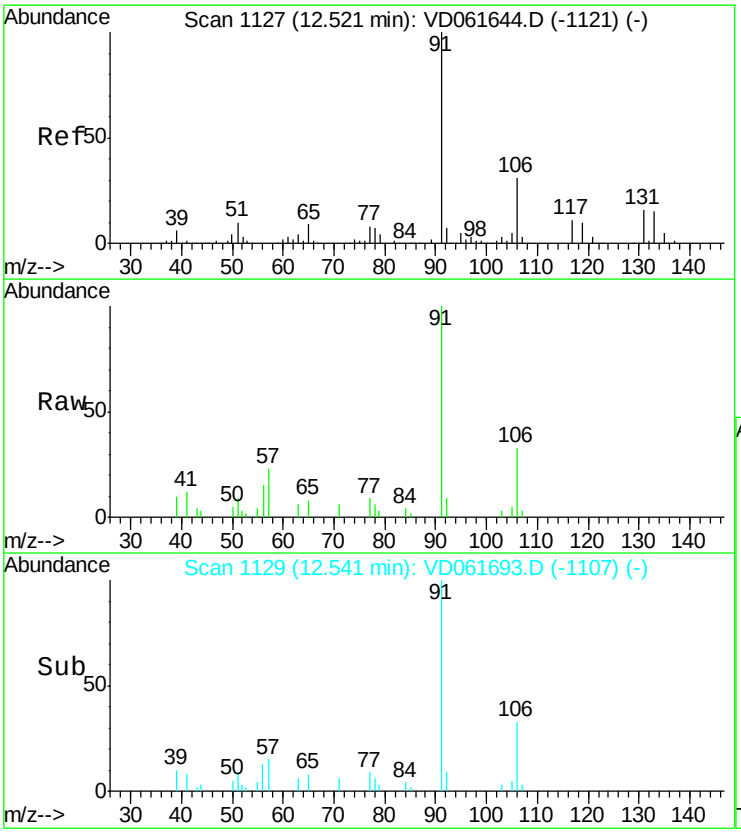
Tgt Ion:112 Resp: 27642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 35.1 | 25.6 | 38.4 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

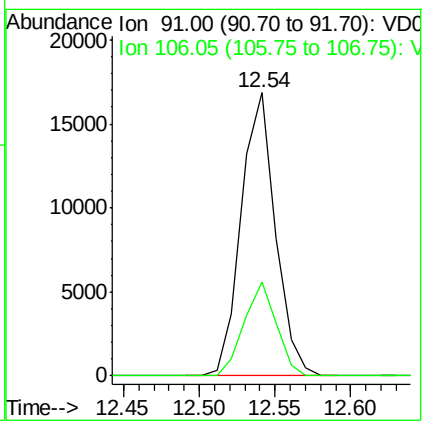


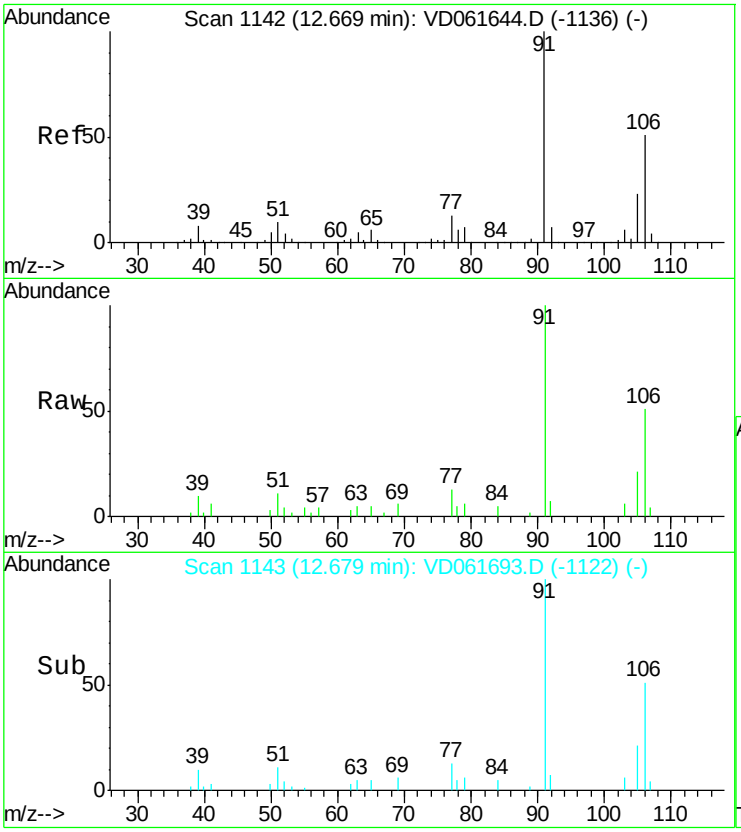




#67
Ethyl Benzene
Concen: 2.200 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 91 Resp: 26569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.2 | 24.6 | 37.0 |

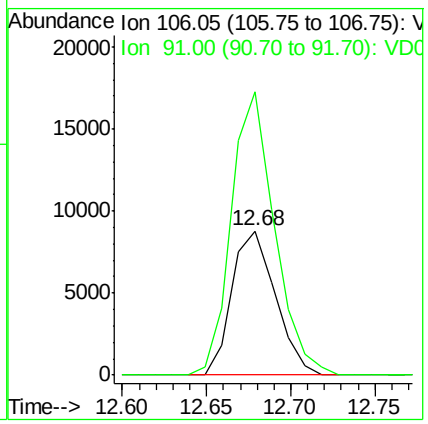





#68
m/p-Xylenes
Concen: 3.388 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

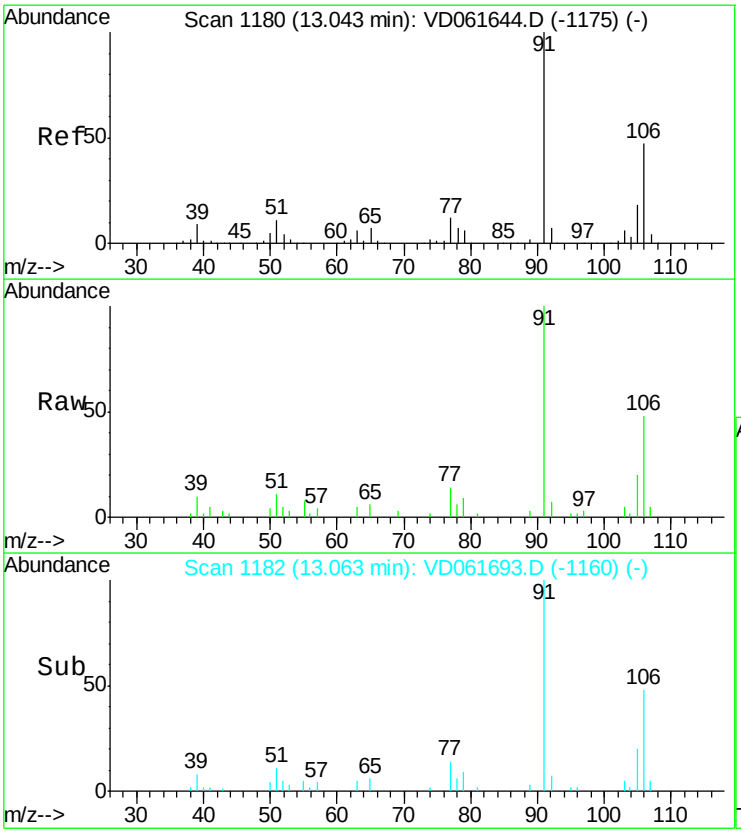
Tgt Ion:106 Resp: 15774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.2 | 156.7 | 235.1 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

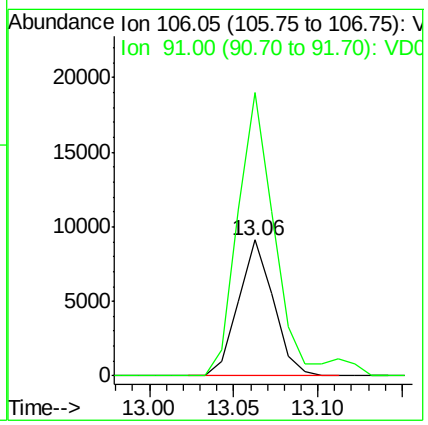
**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM

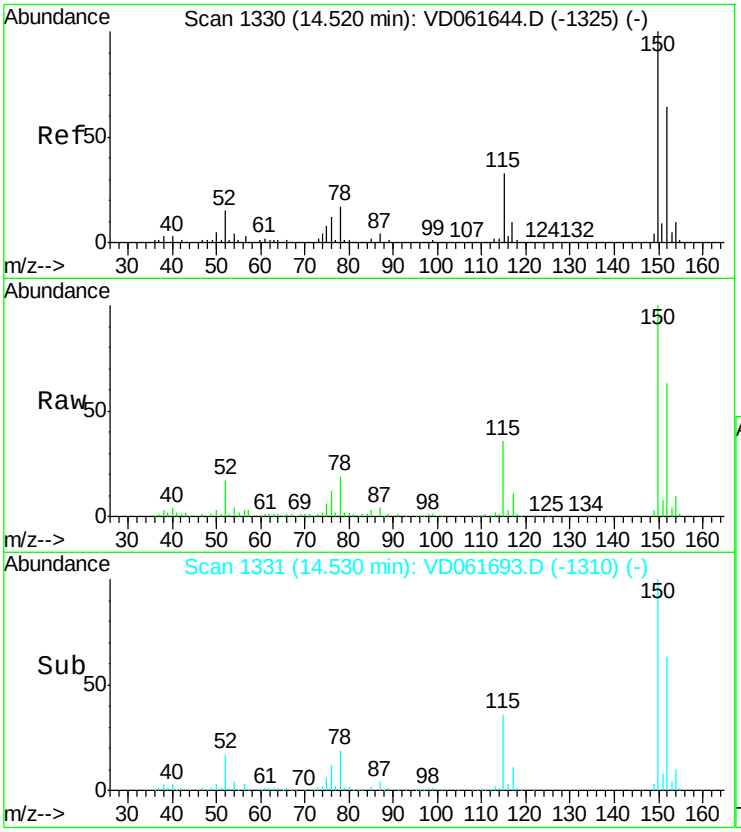



#69
o-Xylene
Concen: 2.926 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:106 Resp: 13151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.1 | 107.3 | 321.9 |

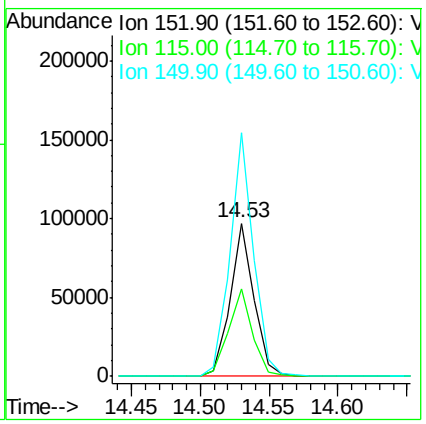





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:152 Resp: 116025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.9 | 26.4 | 79.2 |
| 150 | 158.9 | 0.0 | 320.6 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

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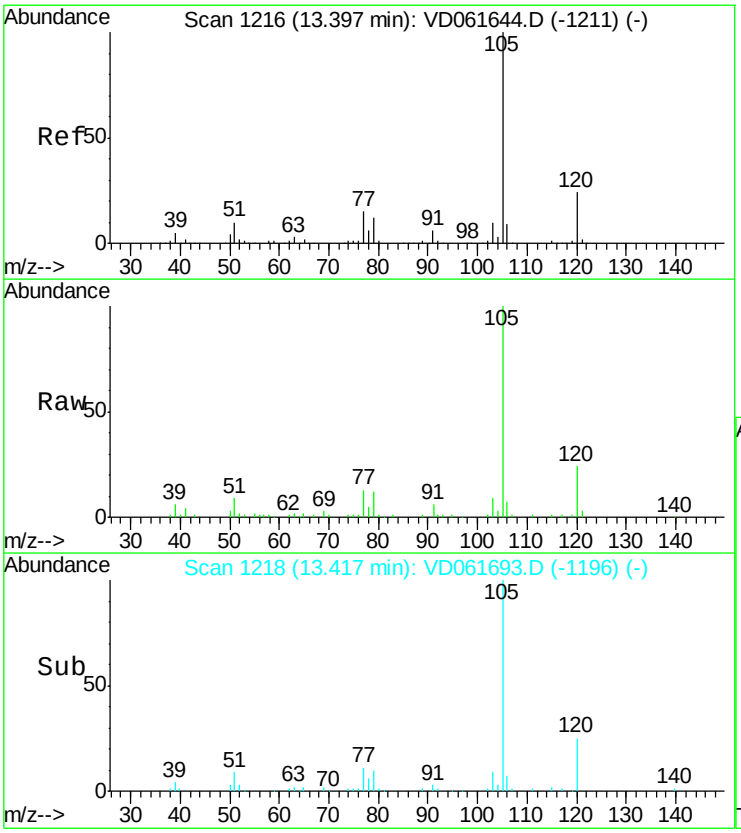
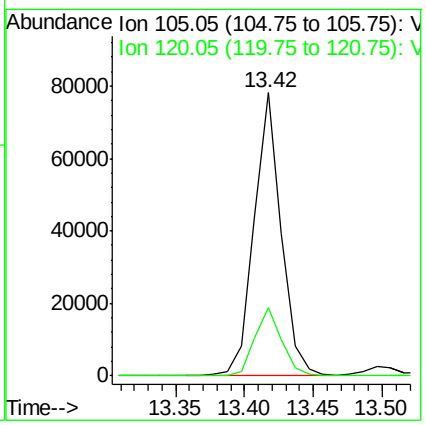
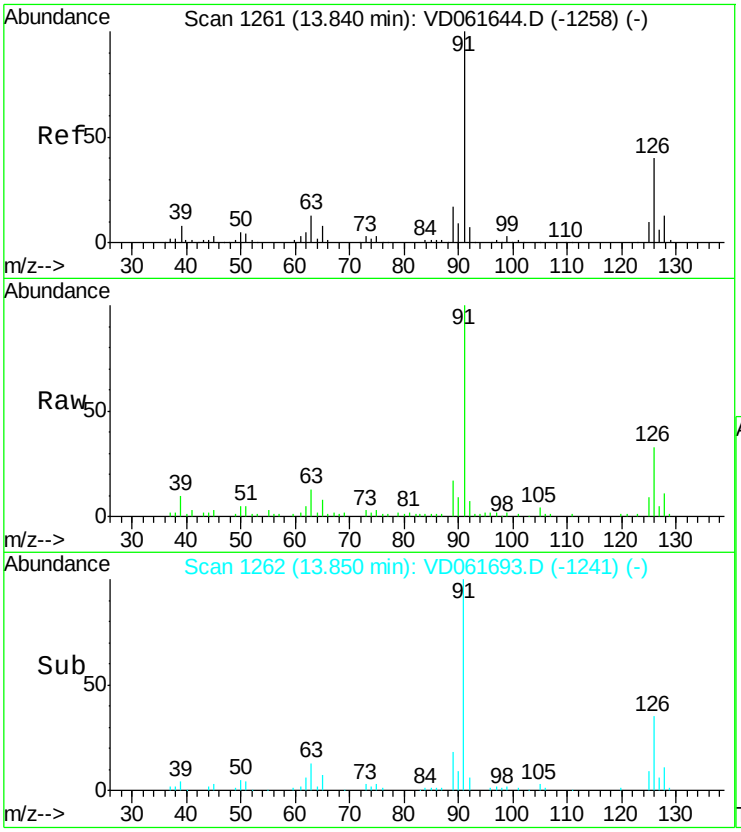



#73
Isopropylbenzene
Concen: 13.884 ug/l
RT: 13.42 min Scan# 1218
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:105 Resp: 107332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.0 | 12.2 | 36.4 |






#79
2-Chlorotoluene
Concen: 17.495 ug/l
RT: 13.85 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion: 91 Resp: 92520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 20.0 | 59.9 |

**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
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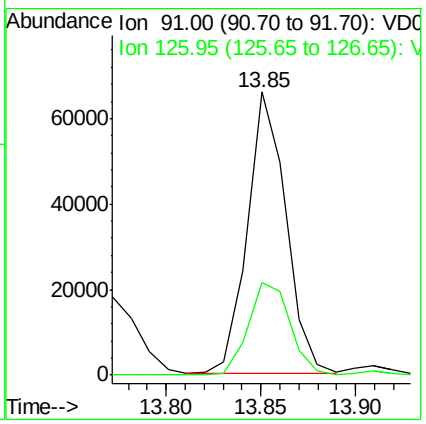
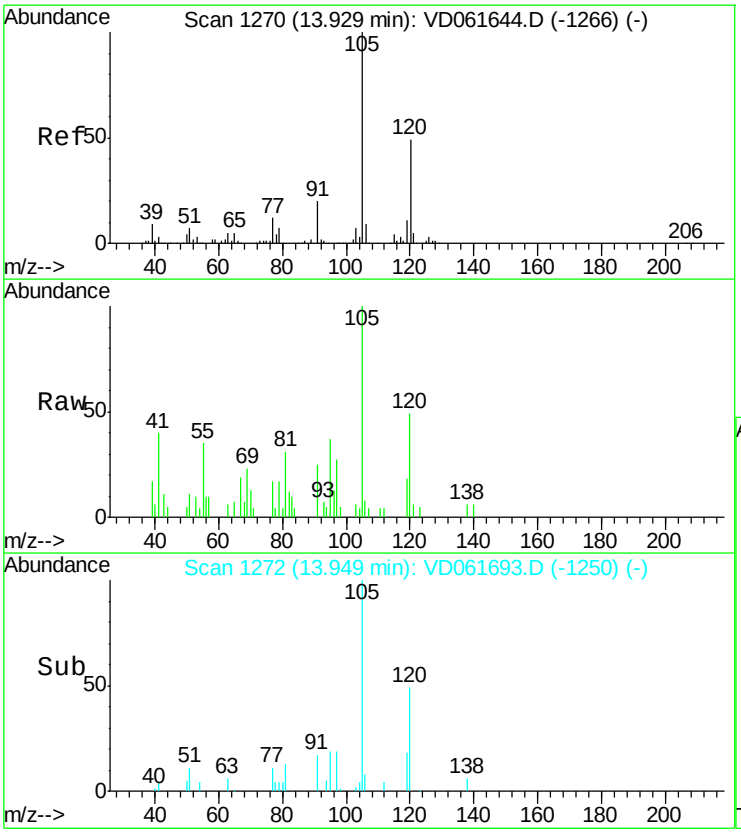
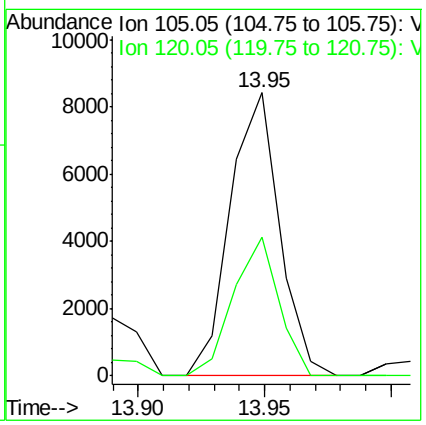


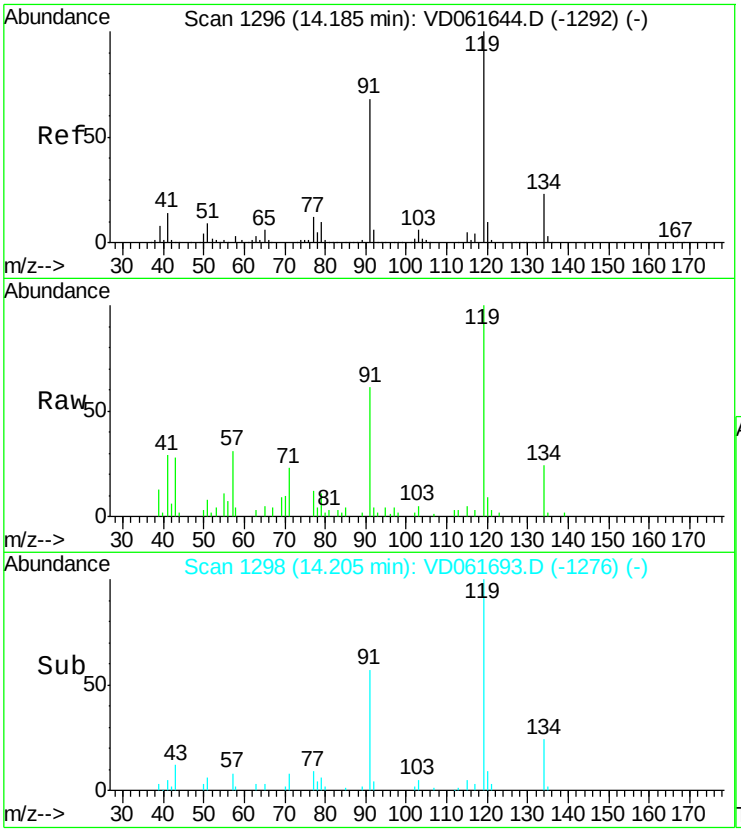




#80
1,3,5-Trimethylbenzene
Concen: 1.868 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:105 Resp: 11464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.0 | 24.4 | 73.2 |

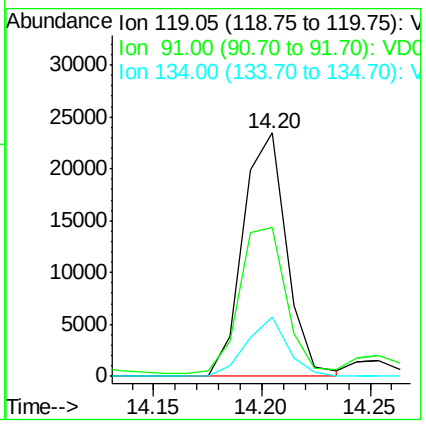





#83
tert-Butylbenzene
Concen: 4.427 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.02 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:119 Resp: 32752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.0 | 33.9 | 101.6 |
| 134 | 24.4 | 11.6 | 34.8 |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
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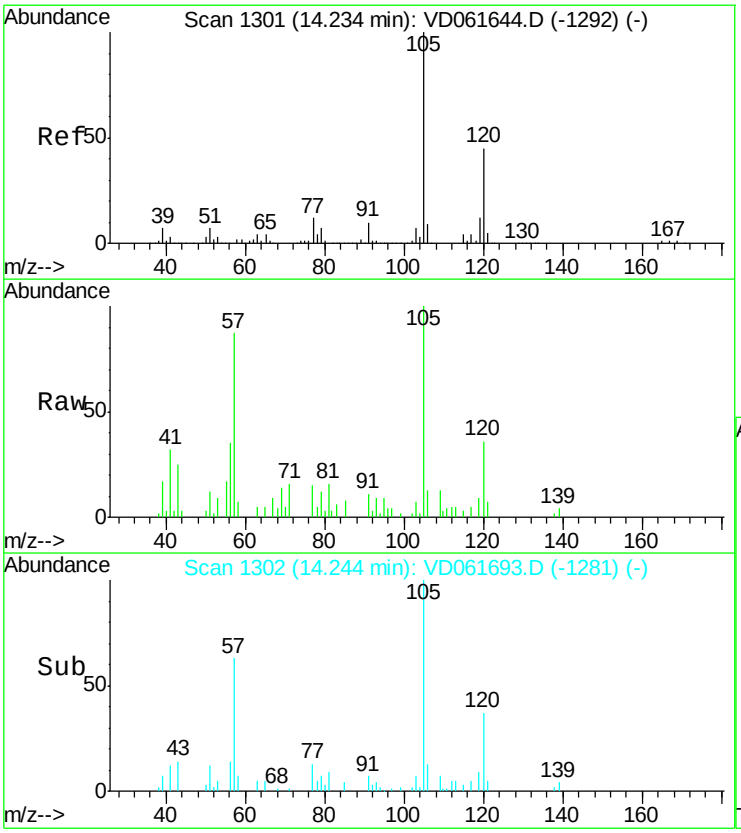
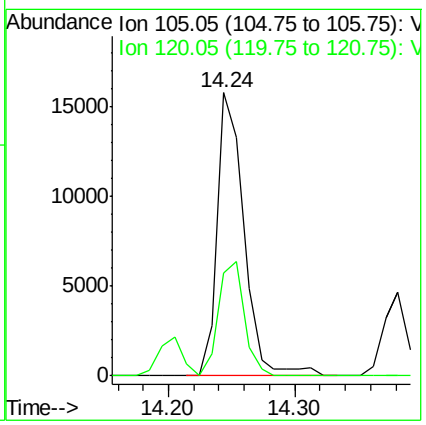
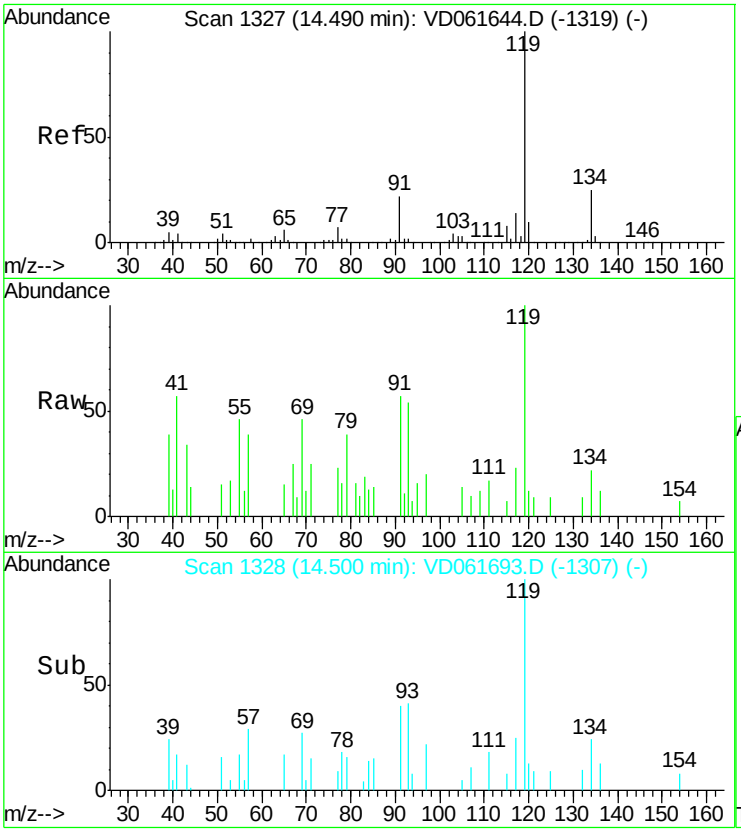



#84
1,2,4-Trimethylbenzene
Concen: 3.753 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:105 Resp: 23242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 36.2 | 22.6 | 67.8 |

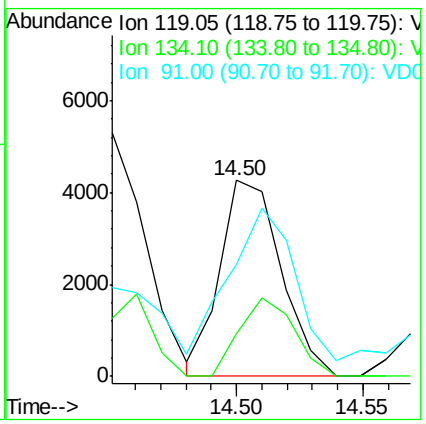





#86
p-Isopropyltoluene
Concen: 1.036 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

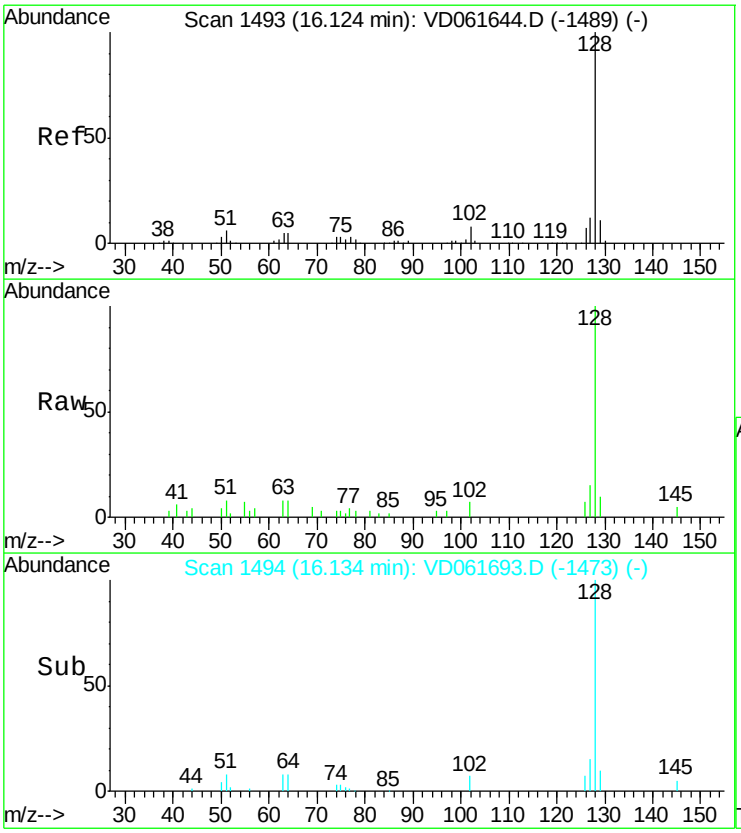
Tgt Ion:119 Resp: 7186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 21.8 | 12.5 | 37.5 |
| 91 | 57.3 | 11.0 | 33.0# |




**Instrument :**
MSVOA_D
**ClientSampleId :**
20190178-AMND-COMP-CS-5

**Manual Integrations APPROVED**
MMDadoda
4/11/2019 3:00:07 AM




#95
Naphthalene
Concen: 7.039 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD061693.D
Acq: 9 Apr 2019 23:44

Tgt Ion:128 Resp: 18061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.9 | 9.4 | 14.2# |
| 129 | 10.5 | 8.8 | 13.2 |