

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082820\  
 Data File : VD066465.D  
 Acq On : 28 Aug 2020 17:40  
 Operator : VA/SY  
 Sample : L3827-10  
 Misc : 6.47G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 789UMR-TP11-0006-02

Quant Time: Aug 29 00:47:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 13:36:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 193427   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 263926   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 239912   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 121376   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.32  | 65   | 106634   | 56.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.46% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 84856    | 51.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.84% |          |
| 50) Toluene-d8              | 10.33 | 98   | 308165   | 51.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.06% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 104504   | 48.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.54%  |          |

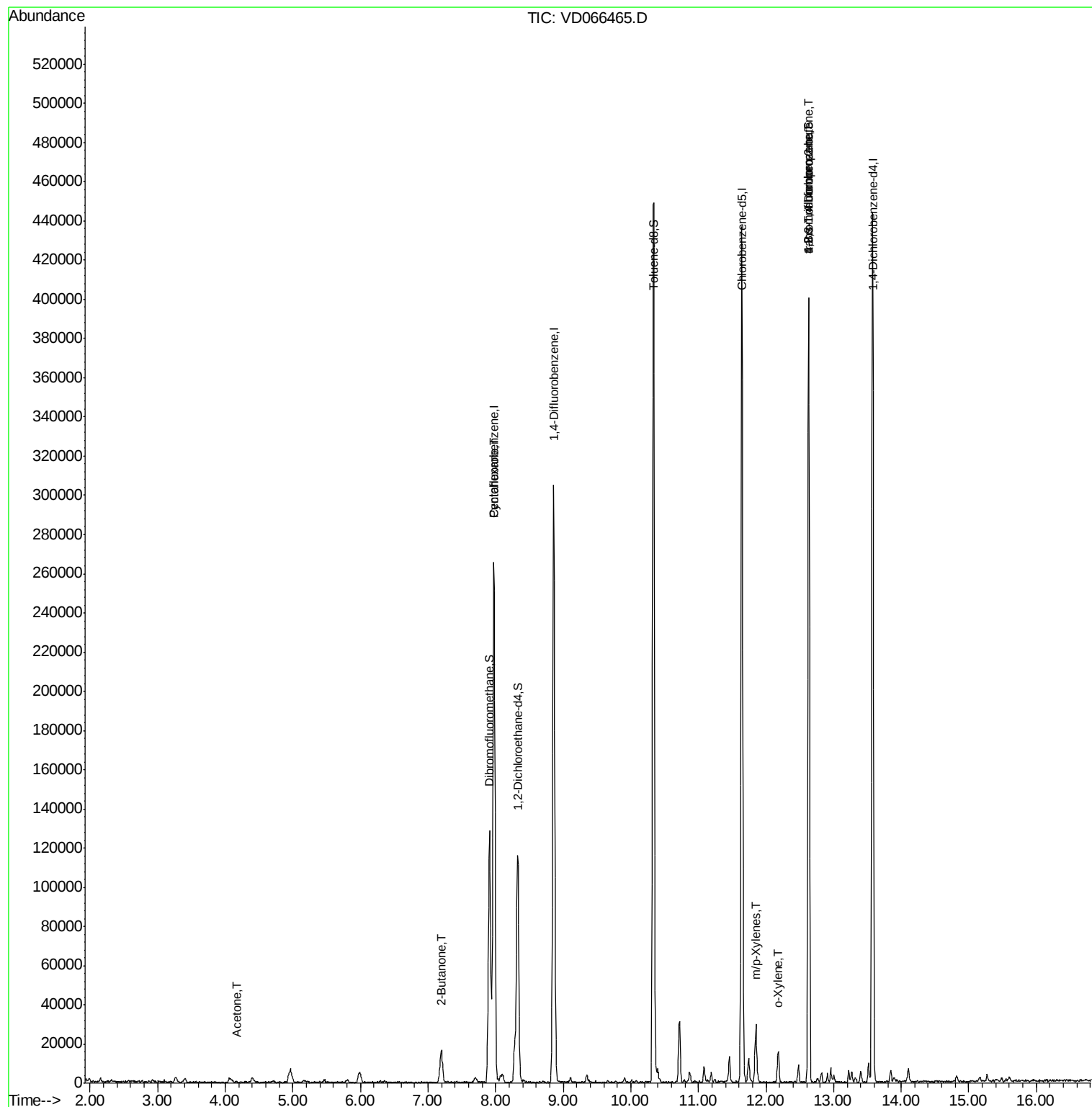
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.21  | 59   | 440      | Below Cal | #      | 71     |
| 16) Acetone                    | 4.17  | 43   | 631      | 1.846     | ug/l # | 46     |
| 20) Methylene Chloride         | 4.96  | 84   | 5283     | Below Cal | #      | 84     |
| 25) 2-Butanone                 | 7.21  | 43   | 648      | 1.670     | ug/l # | 47     |
| 31) Cyclohexane                | 7.97  | 56   | 5138     | 1.951     | ug/l # | 52     |
| 68) m/p-Xylenes                | 11.85 | 106  | 9770     | 3.051     | ug/l   | 99     |
| 69) o-Xylene                   | 12.18 | 106  | 4094     | 1.374     | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 63320    | 74.155    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 63320    | 157.407   | ug/l # | 6      |

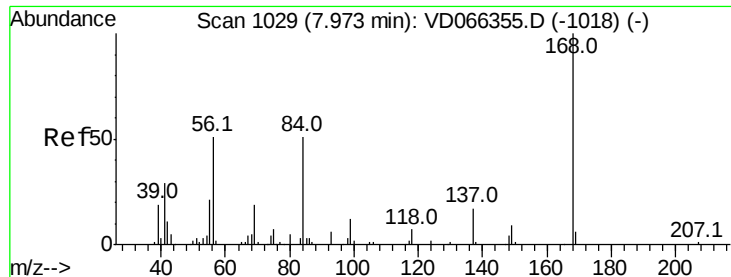
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082820\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D082120S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 13:36:12 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

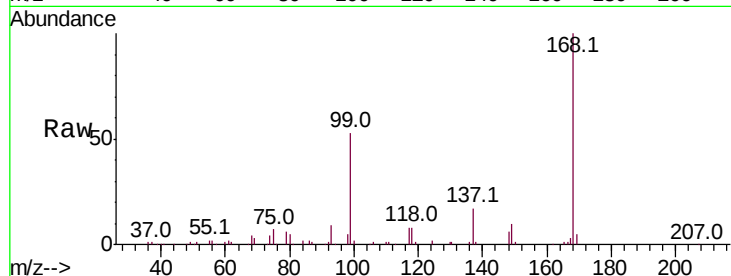
789UMR-TP11-0006-02

Tot Ion:168 Resp: 193427

Ion Ratio Lower Upper

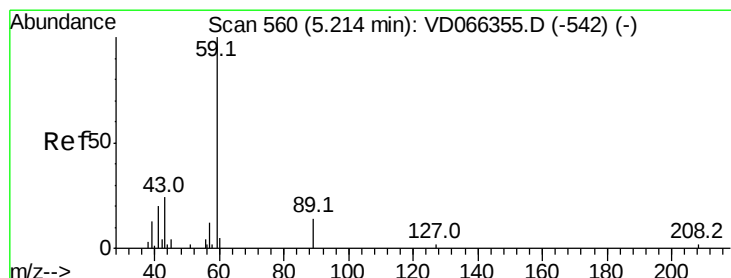
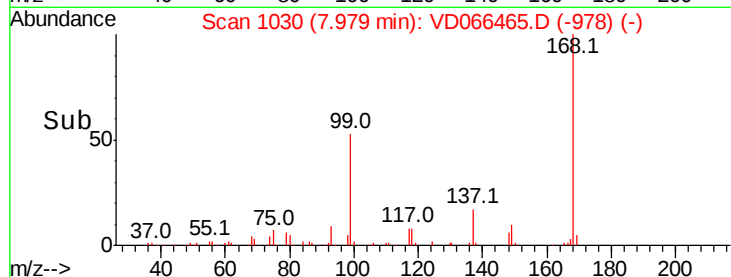
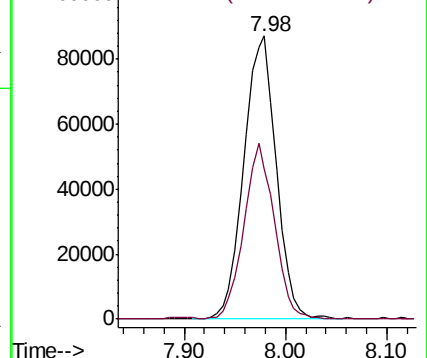
168 100

99 53.3 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD066465.D

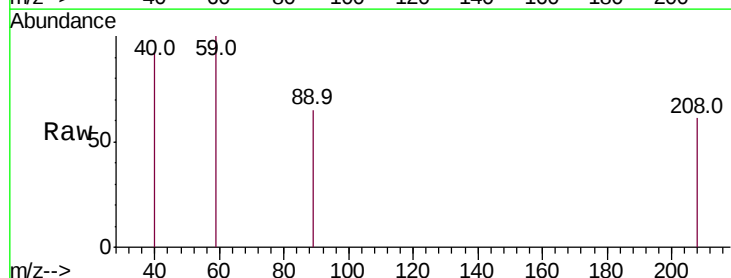
Acq: 28 Aug 2020 17:40

Tgt Ion: 59 Resp: 440

Ion Ratio Lower Upper

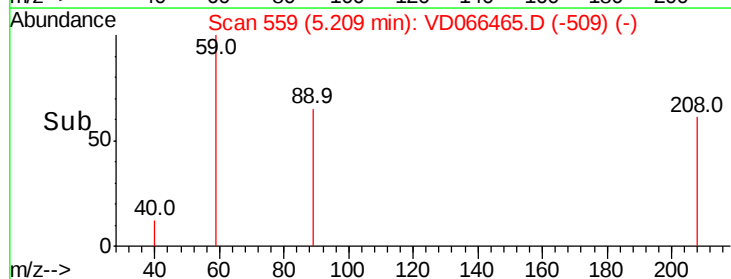
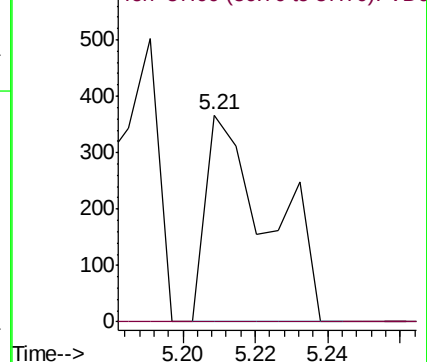
59 100

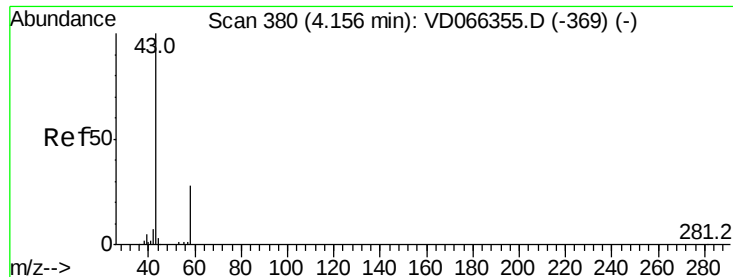
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.846 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.02 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

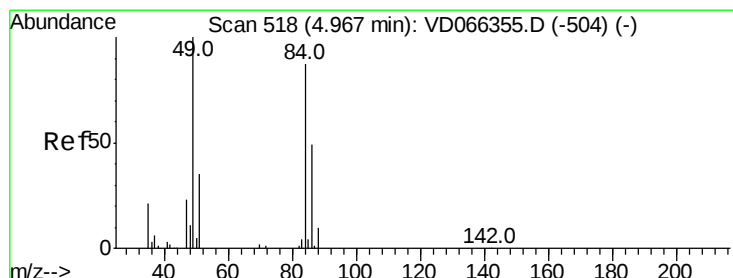
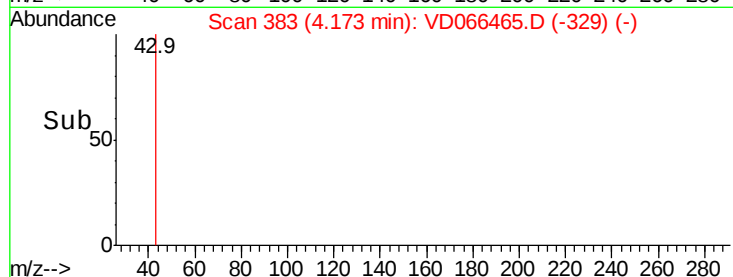
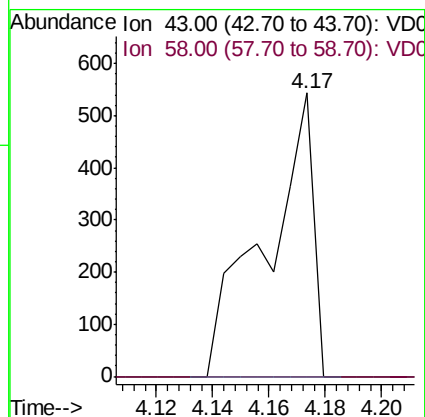
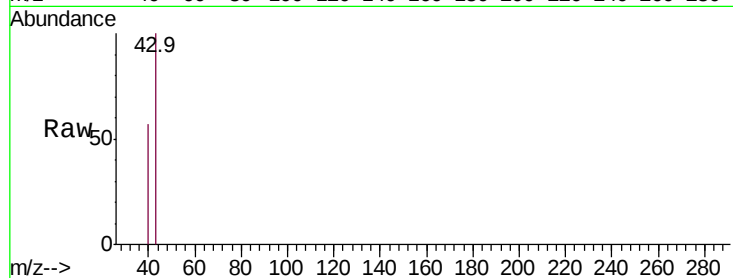
789UMR-TP11-0006-02

Tot Ion: 43 Resp: 631

Ion Ratio Lower Upper

43 100

58 0.0 22.7 34.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Tgt Ion: 84 Resp: 5283

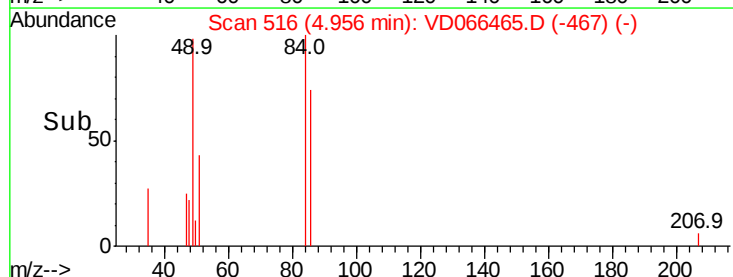
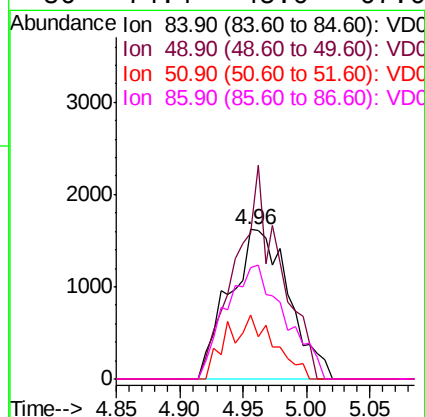
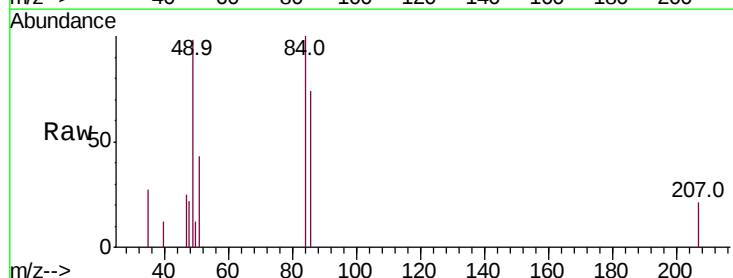
Ion Ratio Lower Upper

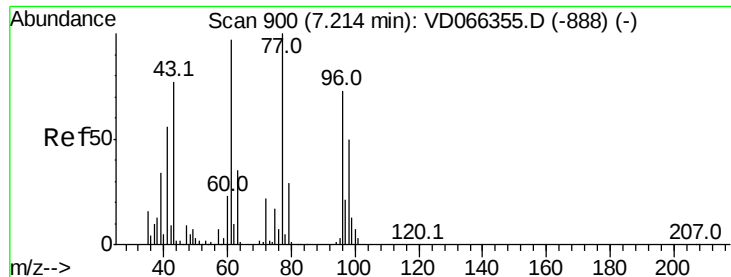
84 100

49 98.1 92.5 138.7

51 43.1 32.5 48.7

86 74.4 45.0 67.6#





#25

2-Butanone

Concen: 1.670 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

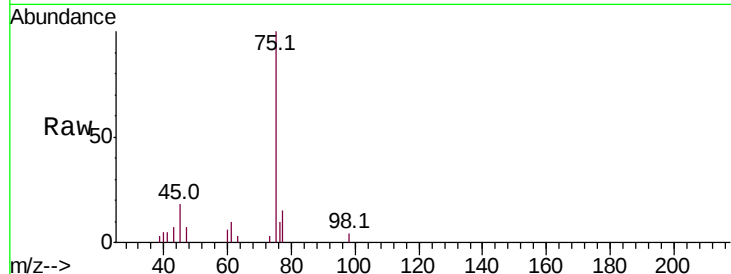
789UMR-TP11-0006-02

Tot Ion: 43 Resp: 648

Ion Ratio Lower Upper

43 100

72 0.0 22.5 33.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.21

400

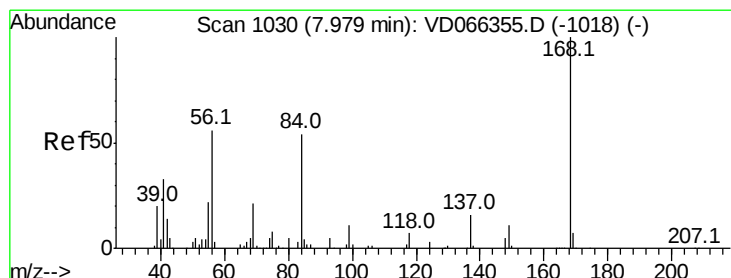
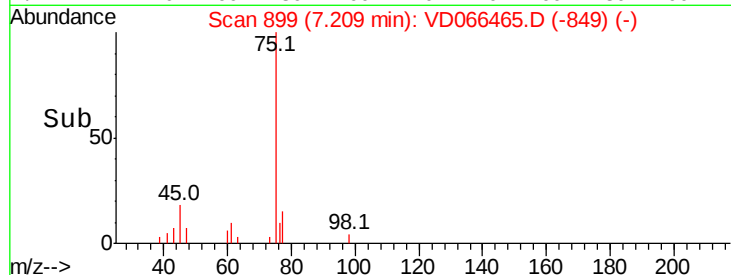
300

200

100

0

Time--> 7.16 7.18 7.20 7.22 7.24



#31

Cyclohexane

Concen: 1.951 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

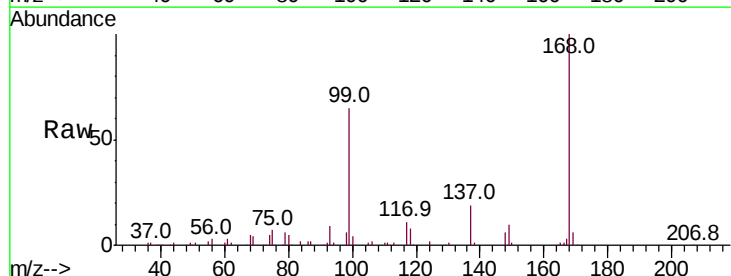
Tgt Ion: 56 Resp: 5138

Ion Ratio Lower Upper

56 100

69 119.5 29.6 44.4#

84 83.1 76.6 115.0



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

4000

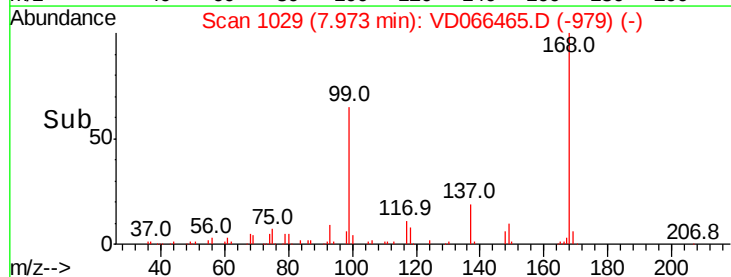
3000

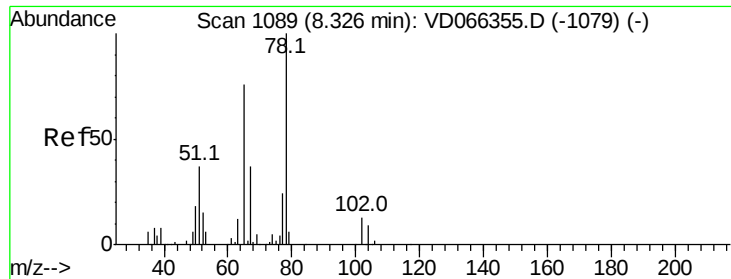
2000

1000

0

Time--> 7.90 7.95 8.00 8.05





#33

1,2-Dichloroethane-d4

Concen: 56.231 ug/l

RT: 8.32 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

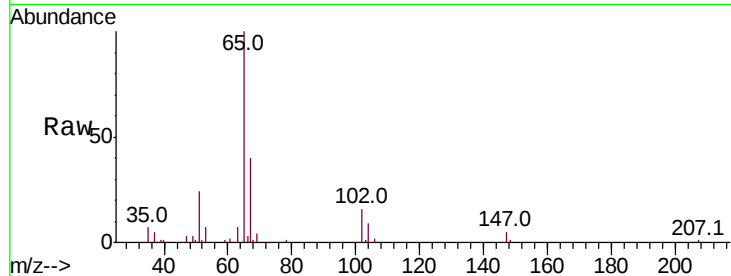
789UMR-TP11-0006-02

Tot Ion: 65 Resp: 106634

Ion Ratio Lower Upper

65 100

67 43.7 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.32

50000

40000

30000

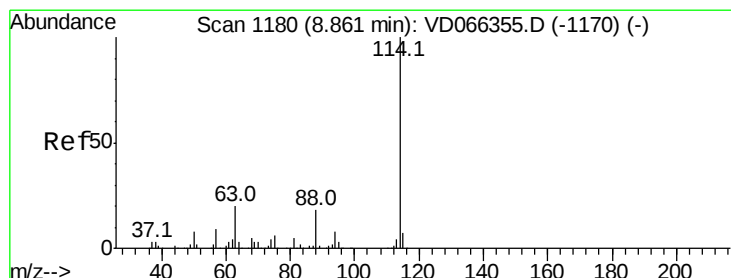
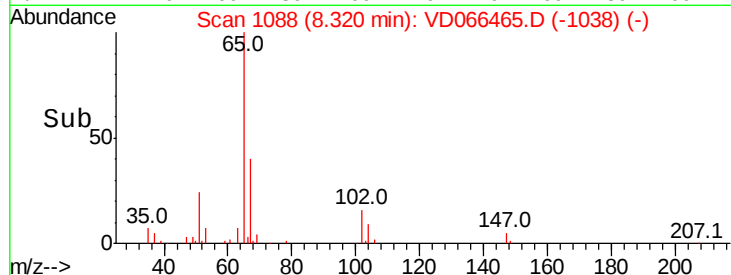
20000

10000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

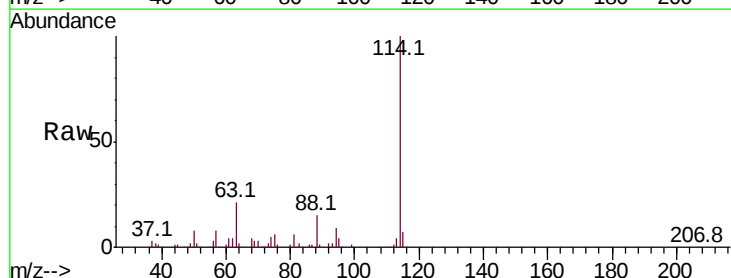
Tgt Ion: 114 Resp: 263926

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.8

88 15.5 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

150000

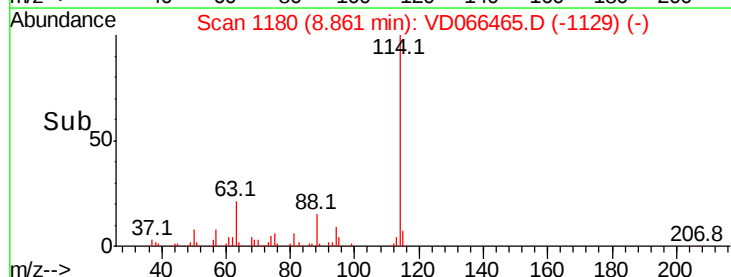
100000

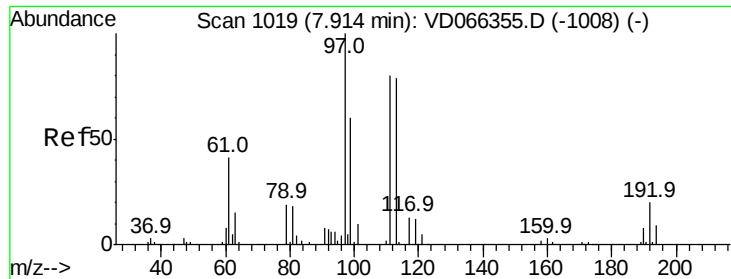
50000

0

8.75 8.80 8.85 8.90 8.95

Time-->

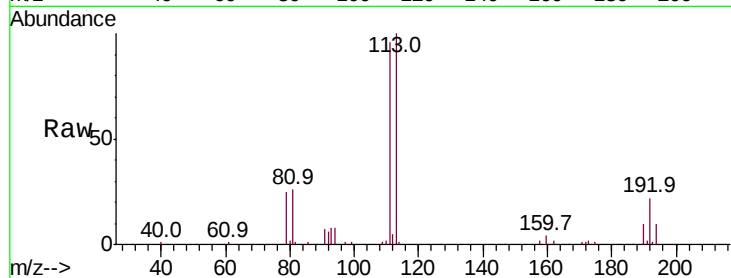




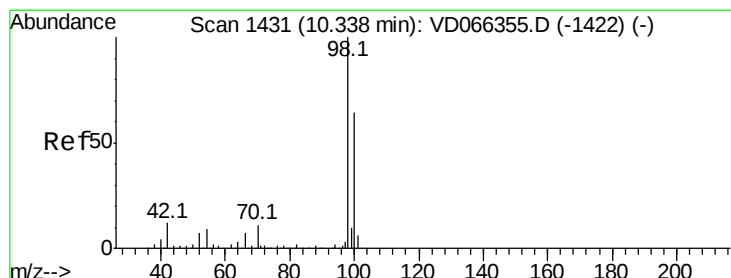
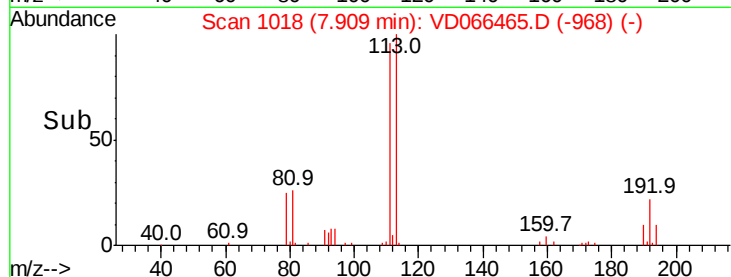
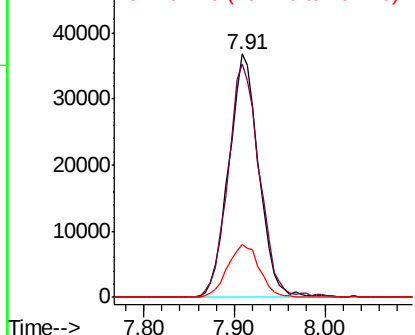
#35  
 Dibromofluoromethane  
 Concen: 51.417 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. -0.01 min  
 Lab File: VD066465.D  
 Acq: 28 Aug 2020 17:40

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 789UMR-TP11-0006-02

Tot Ion:113 Resp: 84856  
 Ion Ratio Lower Upper  
 113 100  
 111 100.8 80.3 120.5  
 192 23.0 19.0 28.6

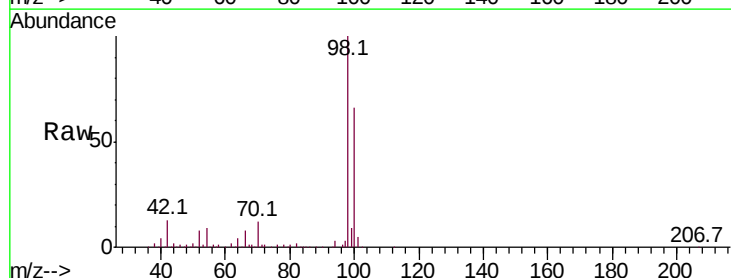


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

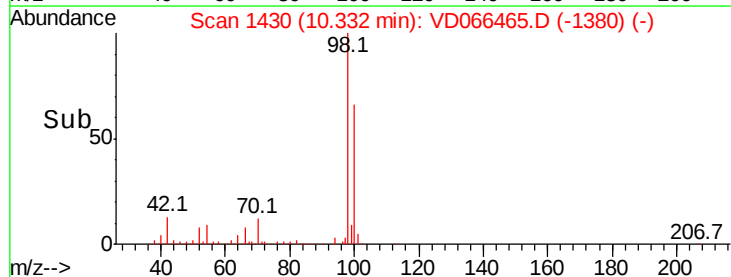
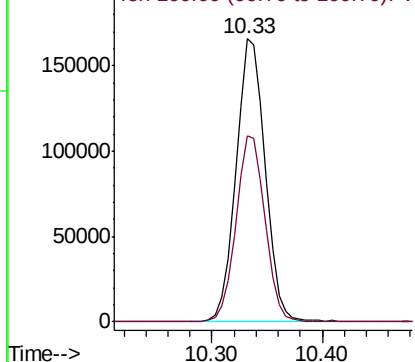


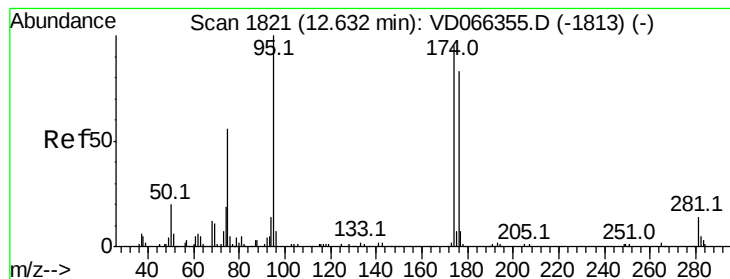
#50  
 Toluene-d8  
 Concen: 51.034 ug/l  
 RT: 10.33 min Scan# 1430  
 Delta R.T. -0.01 min  
 Lab File: VD066465.D  
 Acq: 28 Aug 2020 17:40

Tgt Ion: 98 Resp: 308165  
 Ion Ratio Lower Upper  
 98 100  
 100 65.3 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): V  
 Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 48.772 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

789UMR-TP11-0006-02

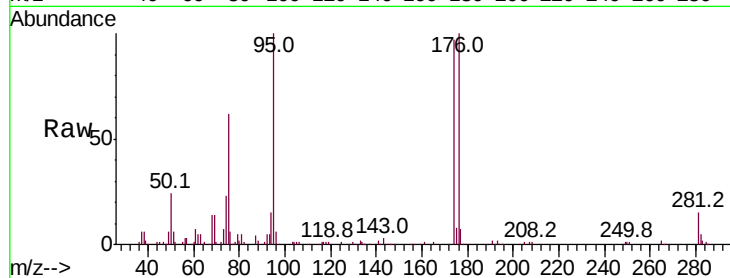
Tot Ion: 95 Resp: 104504

Ion Ratio Lower Upper

95 100

174 96.4 0.0 183.4

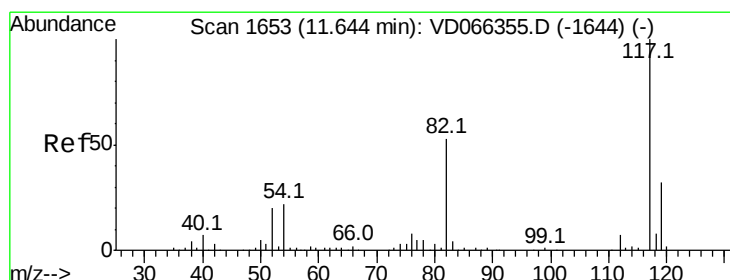
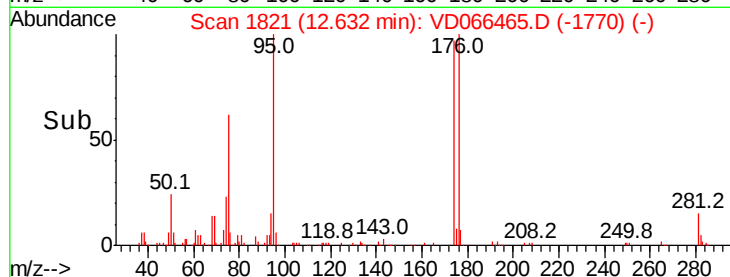
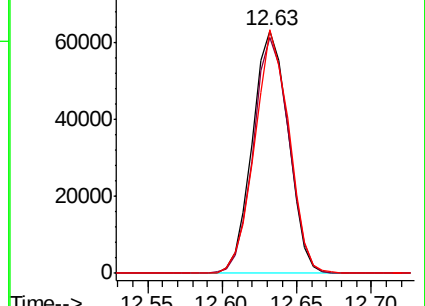
176 96.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

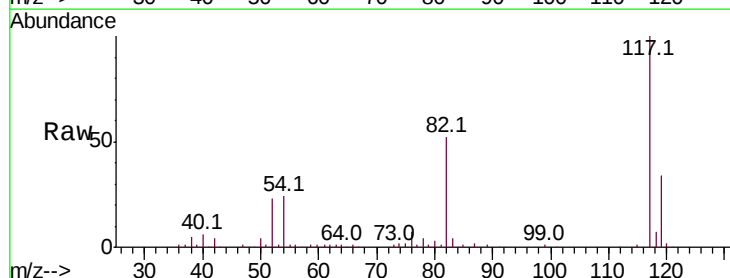
Tgt Ion: 117 Resp: 239912

Ion Ratio Lower Upper

117 100

82 51.7 42.8 64.2

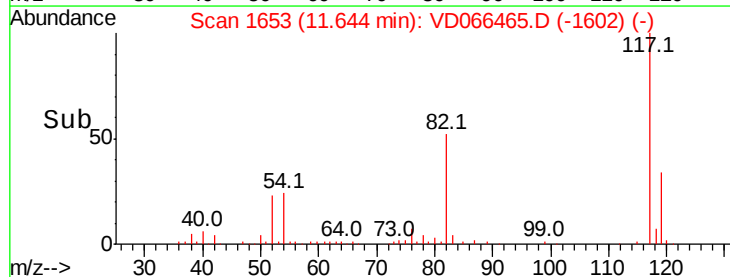
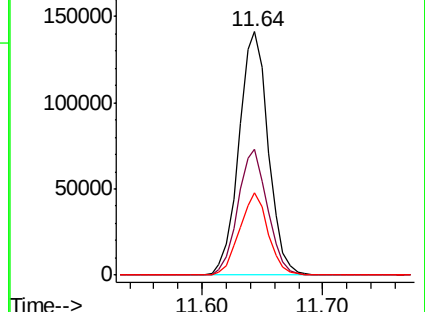
119 33.6 25.8 38.8

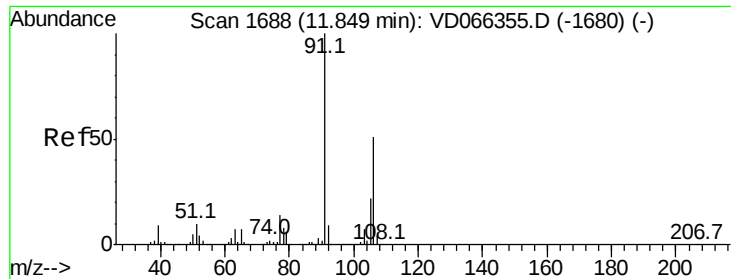


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

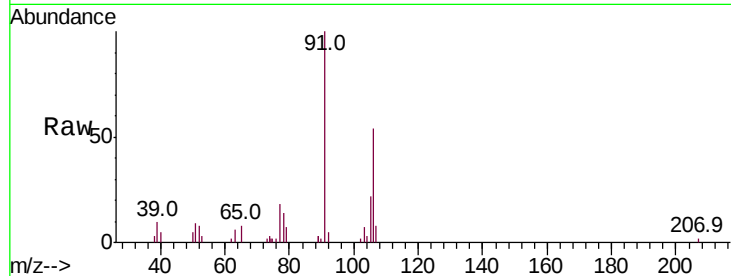




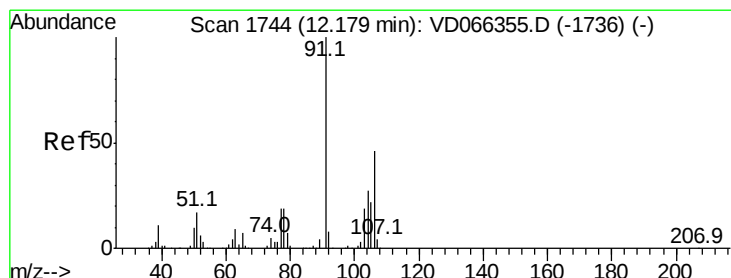
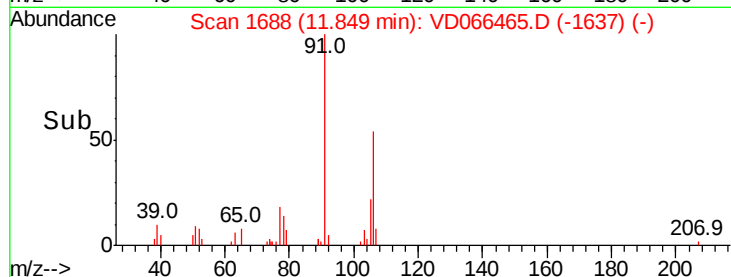
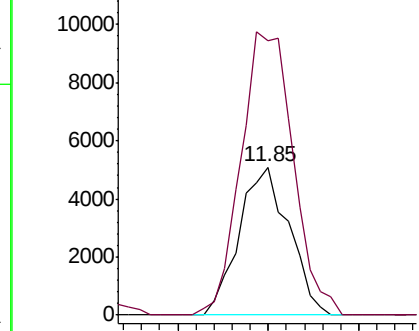
#68  
m/p-Xylenes  
Concen: 3.051 ug/l  
RT: 11.85 min Scan# 1688  
Delta R.T. 0.00 min  
Lab File: VD066465.D  
Acq: 28 Aug 2020 17:40

Instrument :  
MSVOA\_D  
ClientSampleId :  
789UMR-TP11-0006-02

Tot Ion:106 Resp: 9770  
Ion Ratio Lower Upper  
106 100  
91 200.0 160.7 241.1

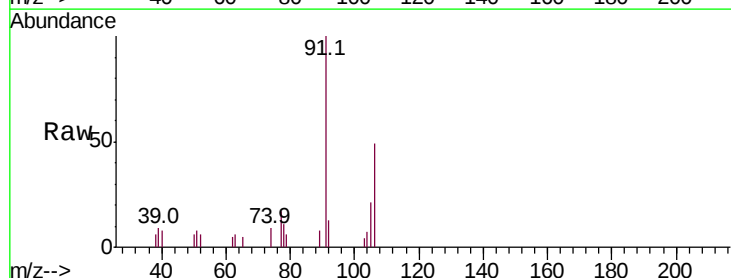


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VDC

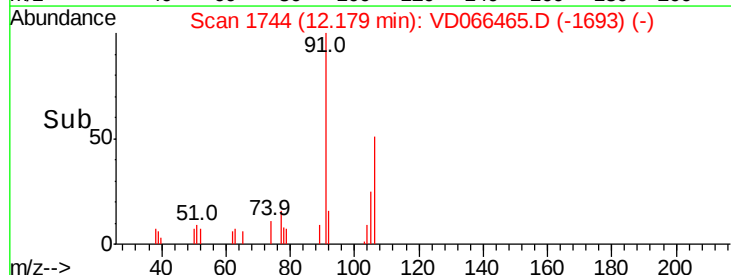
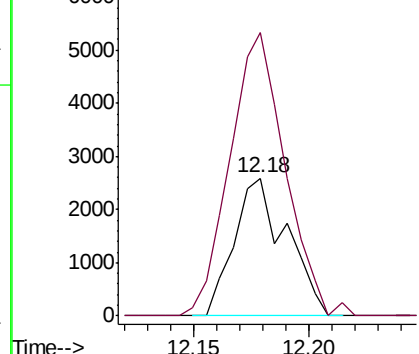


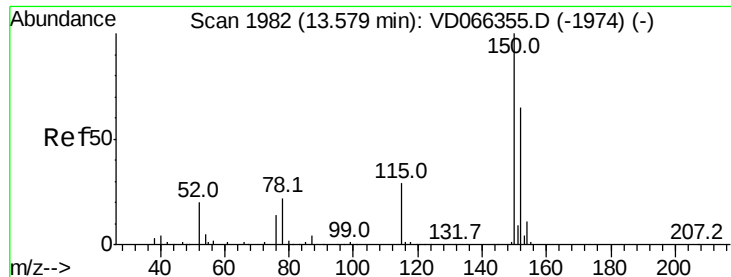
#69  
o-Xylene  
Concen: 1.374 ug/l  
RT: 12.18 min Scan# 1744  
Delta R.T. 0.00 min  
Lab File: VD066465.D  
Acq: 28 Aug 2020 17:40

Tgt Ion:106 Resp: 4094  
Ion Ratio Lower Upper  
106 100  
91 216.7 109.1 327.3



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

789UMR-TP11-0006-02

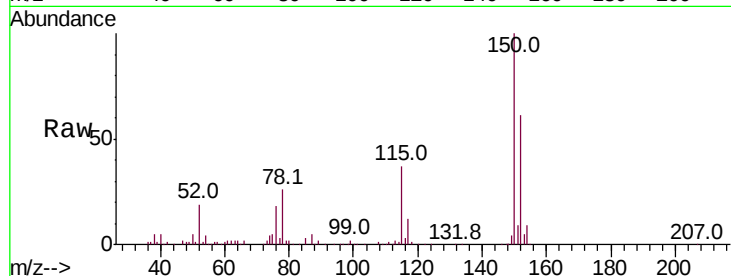
Tot Ion:152 Resp: 121376

Ion Ratio Lower Upper

152 100

115 57.0 28.3 85.0

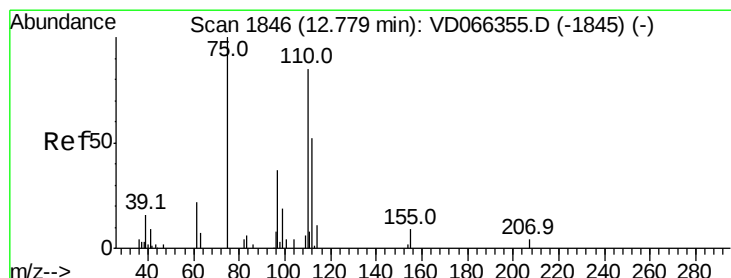
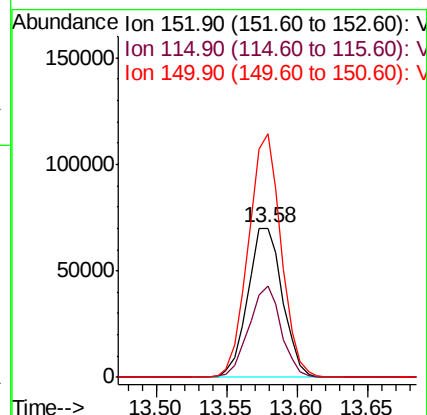
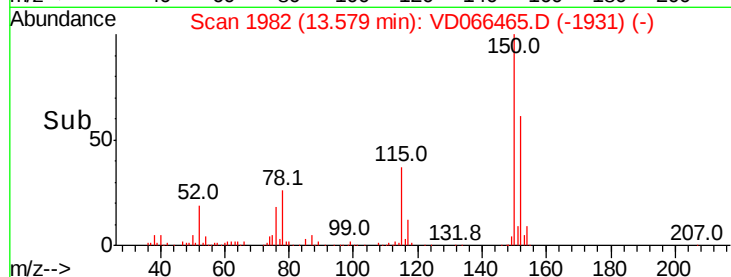
150 153.2 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 74.155 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066465.D

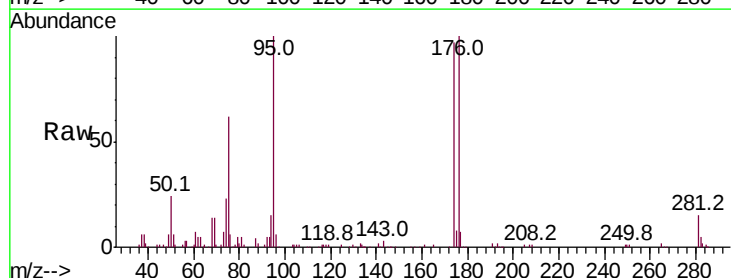
Acq: 28 Aug 2020 17:40

Tgt Ion: 75 Resp: 63320

Ion Ratio Lower Upper

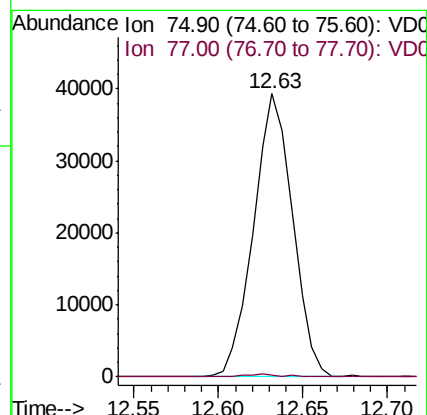
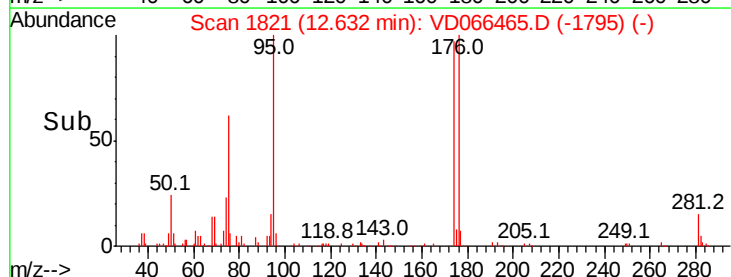
75 100

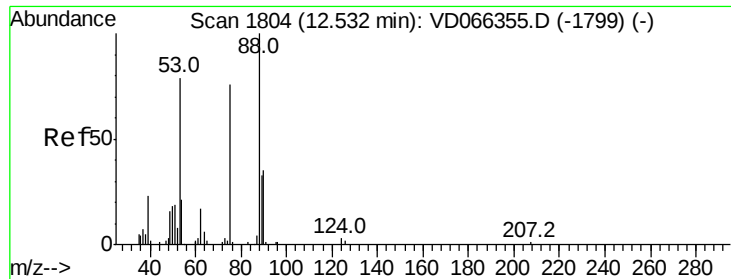
77 0.6 182.9 548.9#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 157.407 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066465.D

Acq: 28 Aug 2020 17:40

Instrument :

MSVOA\_D

ClientSampleId :

789UMR-TP11-0006-02

Tot Ion: 75 Resp: 63320

Ion Ratio Lower Upper

75 100

53 0.0 87.4 131.2#

89 0.0 39.4 59.0#

