

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092520\
 Data File : VD066870.D
 Acq On : 25 Sep 2020 13:26
 Operator : VA/SY
 Sample : L4152-05
 Misc : 5.01G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WR-PILE-3-4

Quant Time: Sep 26 03:00:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	397132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	700579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	716347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	342129	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	209826	53.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.96%	
35) Dibromofluoromethane	7.91	113	224383	50.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.68%	
50) Toluene-d8	10.34	98	857168	56.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.88%	
62) 4-Bromofluorobenzene	12.63	95	309326	59.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.00%	

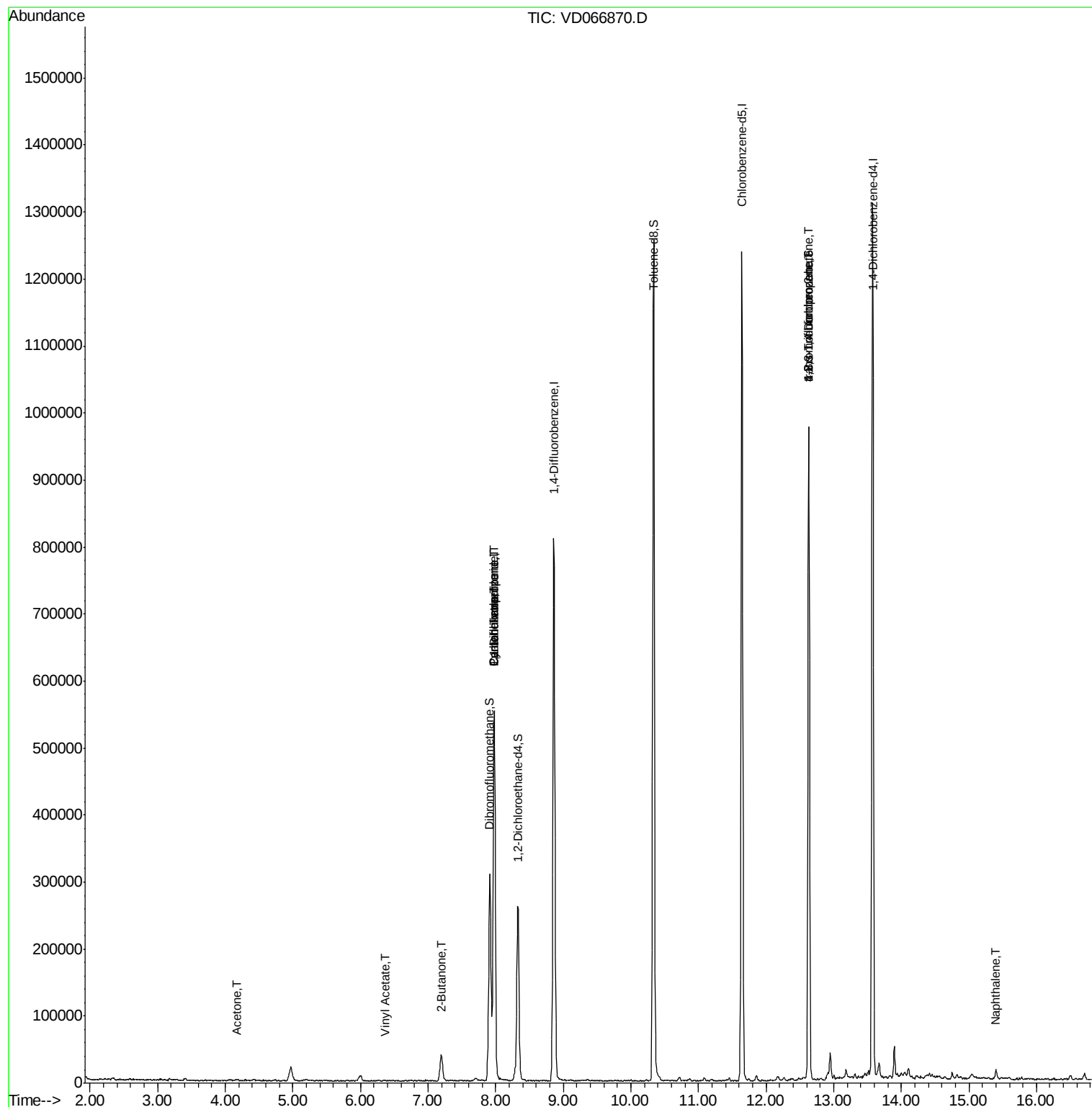
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.98	85	576	Below Cal	#	46
11) Tert butyl alcohol	5.18	59	1485	Below Cal	#	72
16) Acetone	4.16	43	3807	4.617	ug/l	90
18) Methyl Acetate	4.57	43	78	Below Cal	#	50
20) Methylene Chloride	4.97	84	15659	Below Cal	#	93
23) Vinyl Acetate	6.37	43	308	2.720	ug/l #	71
25) 2-Butanone	7.21	43	2986	3.013	ug/l #	72
31) Cyclohexane	7.97	56	10109	1.430	ug/l #	54
36) 1,1-Dichloropropene	7.98	75	33435	4.811	ug/l #	49
38) Carbon Tetrachloride	7.98	117	42360	5.575	ug/l #	17
49) 1,4-Dioxane	9.47	88	54	Below Cal	#	23
76) 1,2,3-Trichloropropane	12.63	75	157914	55.696	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	157914	139.346	ug/l #	10
95) Naphthalene	15.41	128	11832	1.133	ug/l #	93

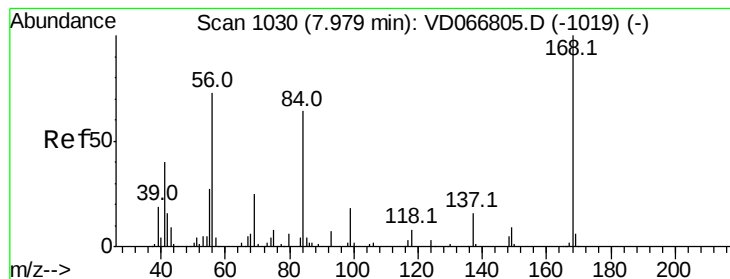
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

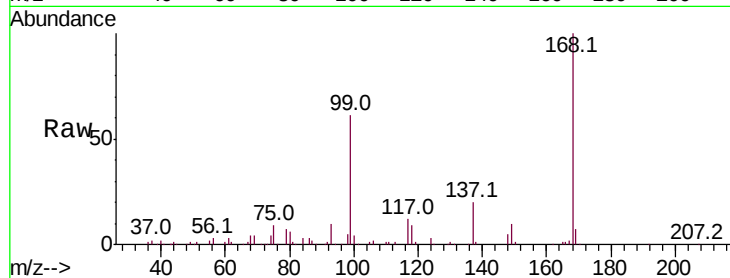
WR-PILE-3-4

Tot Ion:168 Resp: 397132

Ion Ratio Lower Upper

168 100

99 60.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

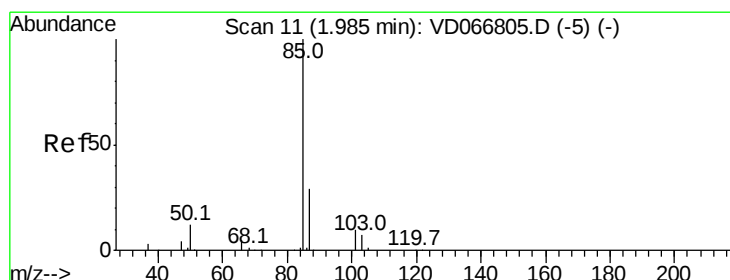
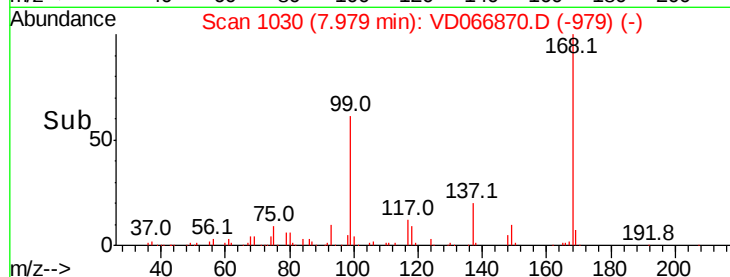
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD066870.D

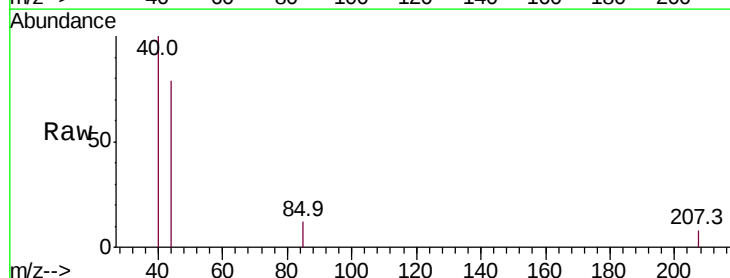
Acq: 25 Sep 2020 13:26

Tgt Ion: 85 Resp: 576

Ion Ratio Lower Upper

85 100

87 0.0 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.98

500

400

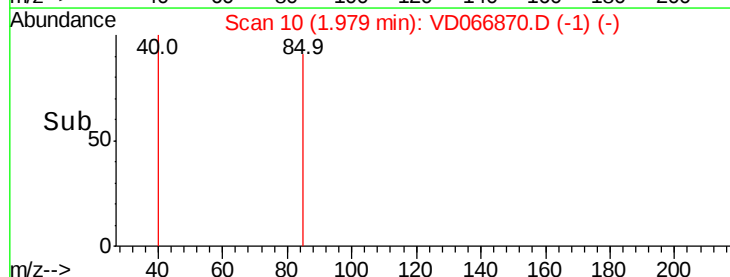
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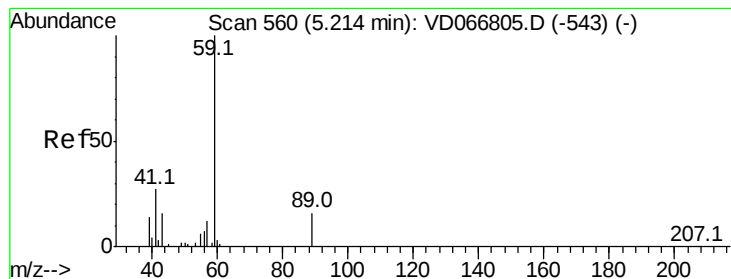
200

100

0

Time-->



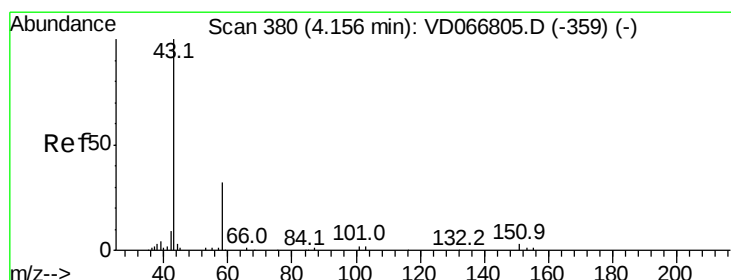
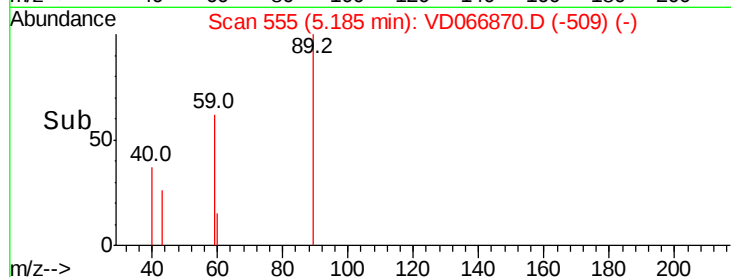
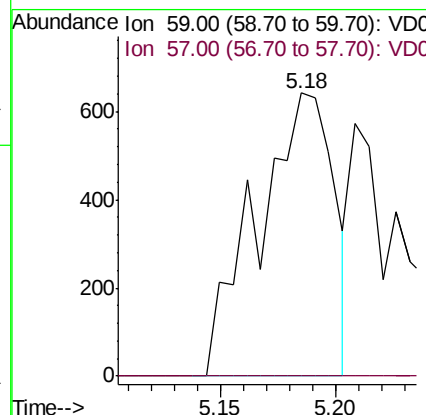
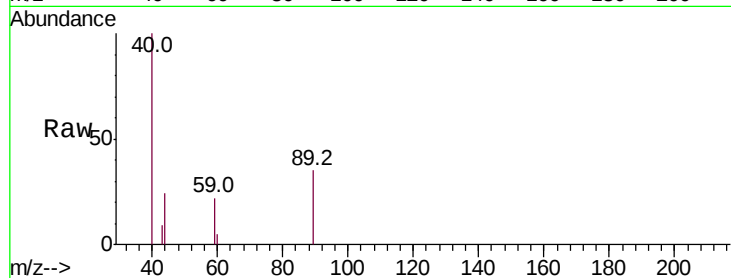


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 555
 Delta R.T. -0.03 min
 Lab File: VD066870.D
 Acq: 25 Sep 2020 13:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WR-PILE-3-4

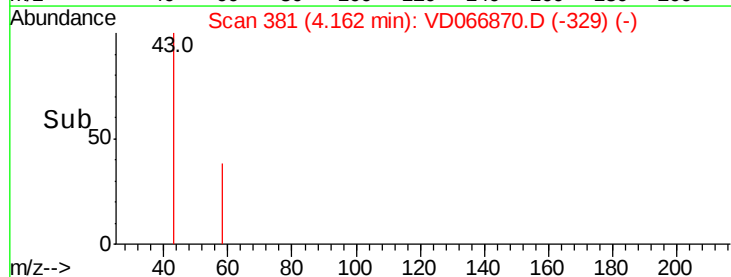
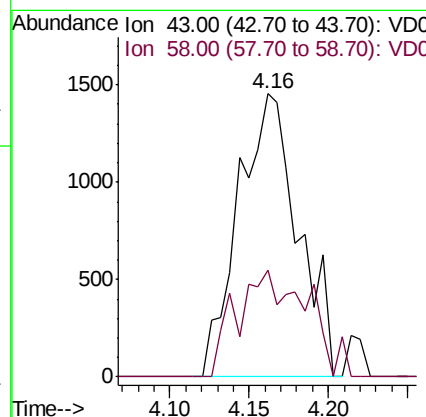
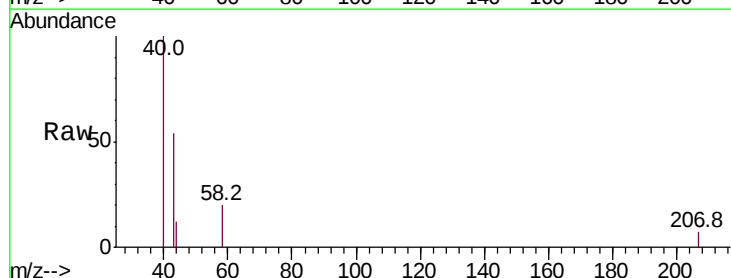
Tot Ion: 59 Resp: 1485
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

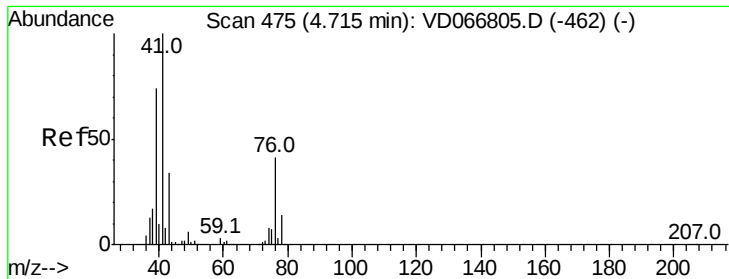


#16

Acetone
 Concen: 4.617 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VD066870.D
 Acq: 25 Sep 2020 13:26

Tgt Ion: 43 Resp: 3807
 Ion Ratio Lower Upper
 43 100
 58 37.8 25.6 38.4

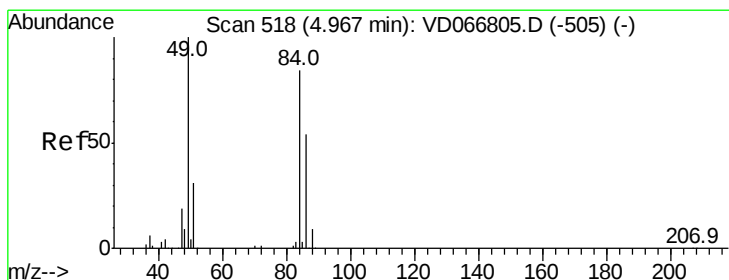
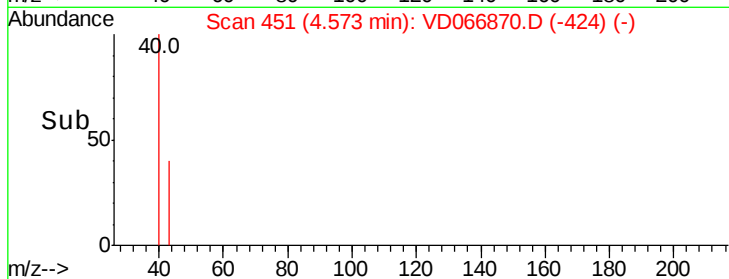
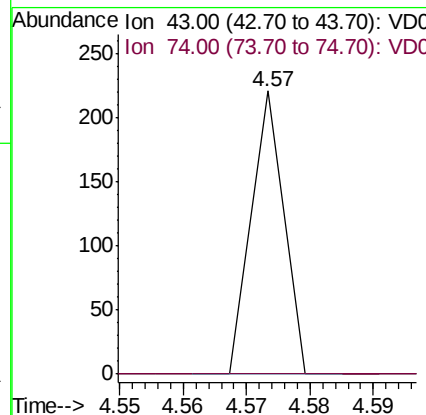
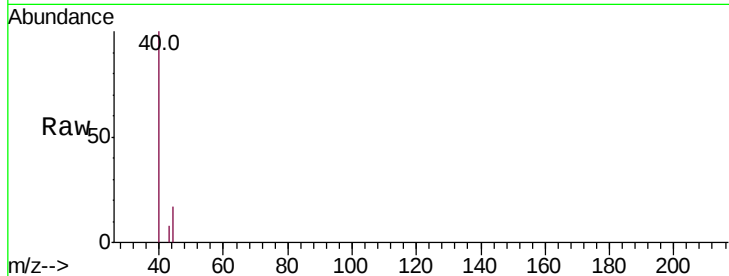




#18
Methyl Acetate
Concen: Below Cal
RT: 4.57 min Scan# 451
Delta R.T. -0.14 min
Lab File: VD066870.D
Acq: 25 Sep 2020 13:26

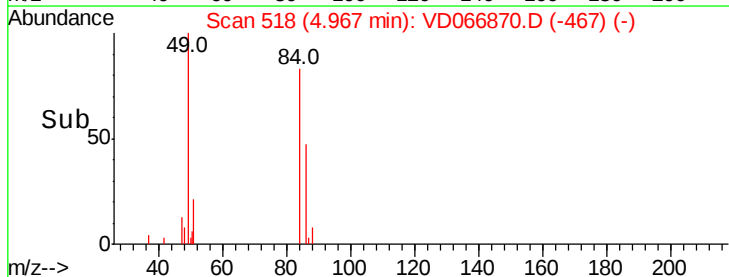
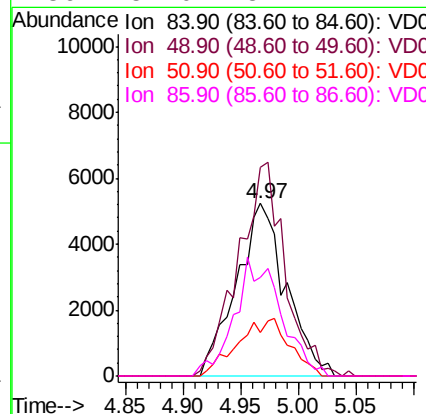
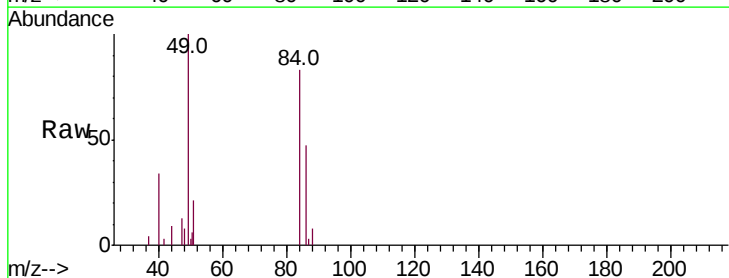
Instrument :
MSVOA_D
ClientSampleId :
WR-PILE-3-4

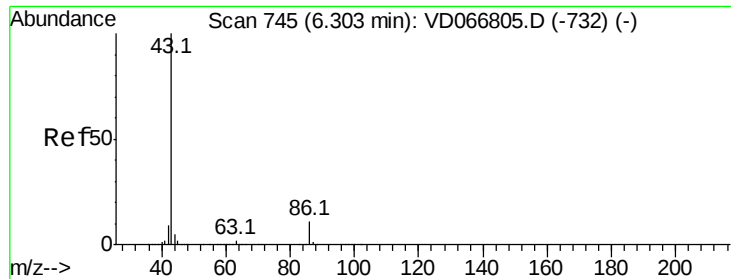
Tot Ion: 43 Resp: 78
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD066870.D
Acq: 25 Sep 2020 13:26

Tgt Ion: 84 Resp: 15659
Ion Ratio Lower Upper
84 100
49 121.0 95.4 143.2
51 25.5 29.7 44.5#
86 57.0 51.4 77.2





#23

Vinyl Acetate

Concen: 2.720 ug/l

RT: 6.37 min Scan# 757

Delta R.T. 0.07 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

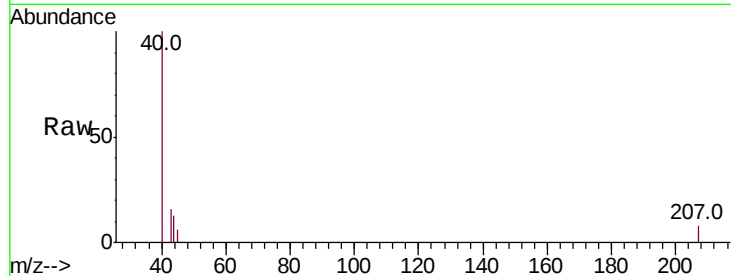
WR-PILE-3-4

Tot Ion: 43 Resp: 308

Ion Ratio Lower Upper

43 100

86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.37

400

300

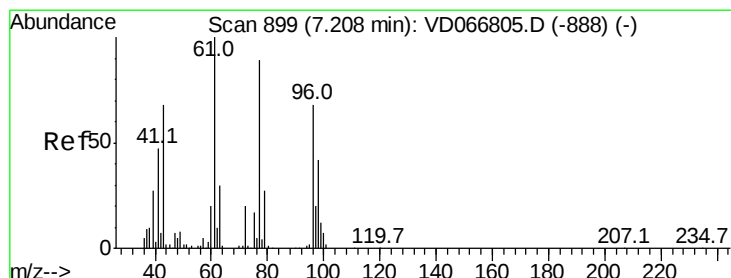
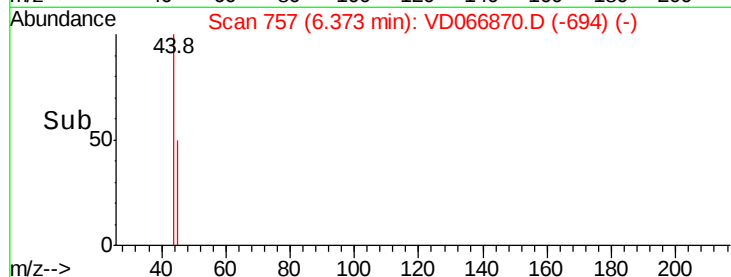
200

100

0

6.34 6.36 6.38

Time-->



#25

2-Butanone

Concen: 3.013 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.00 min

Lab File: VD066870.D

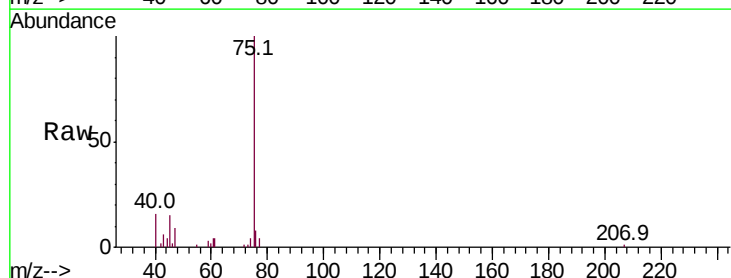
Acq: 25 Sep 2020 13:26

Tgt Ion: 43 Resp: 2986

Ion Ratio Lower Upper

43 100

72 13.8 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.21

1200

1000

800

600

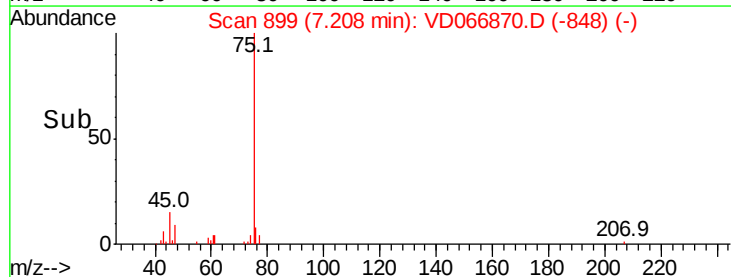
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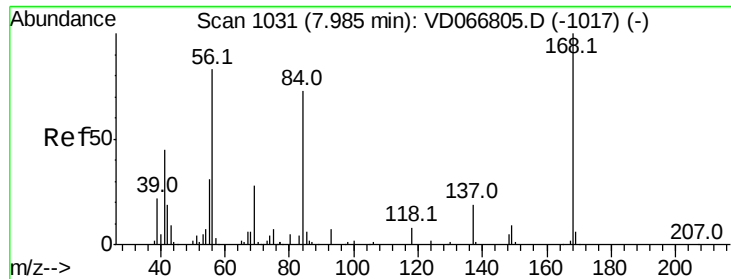
200

0

7.10 7.15 7.20 7.25 7.30

Time-->

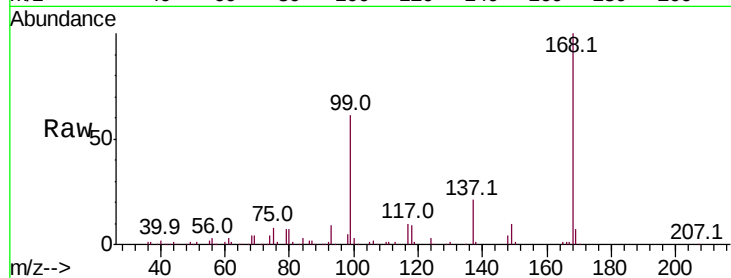




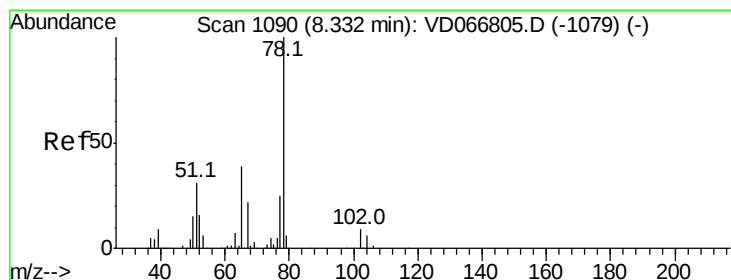
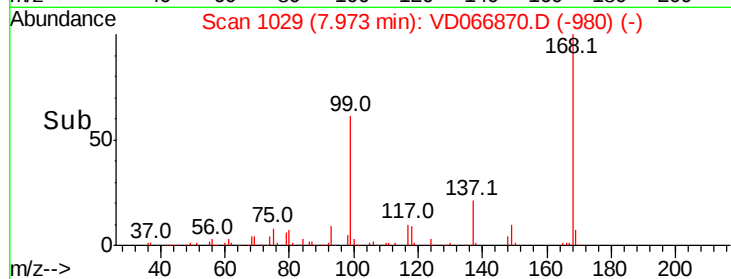
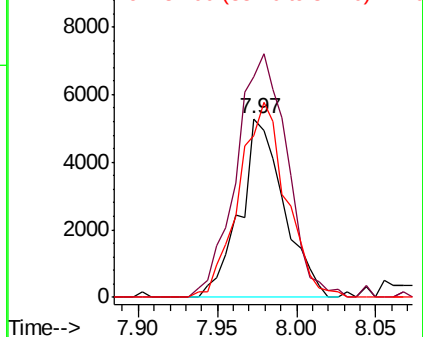
#31
Cyclohexane
Concen: 1.430 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066870.D
Acq: 25 Sep 2020 13:26

Instrument :
MSVOA_D
ClientSampleId :
WR-PILE-3-4

Tot Ion: 56 Resp: 10109
Ion Ratio Lower Upper
56 100
69 123.4 27.0 40.4#
84 90.8 70.2 105.4

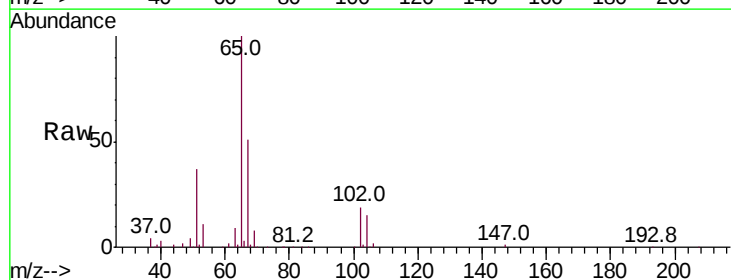


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

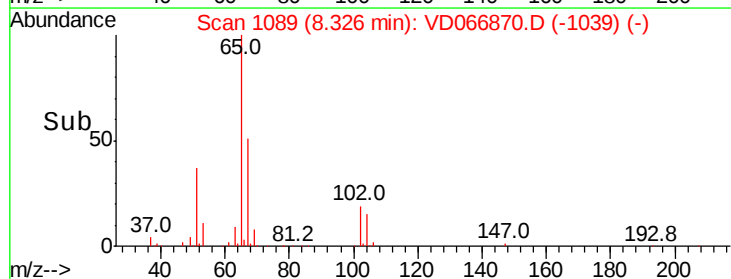
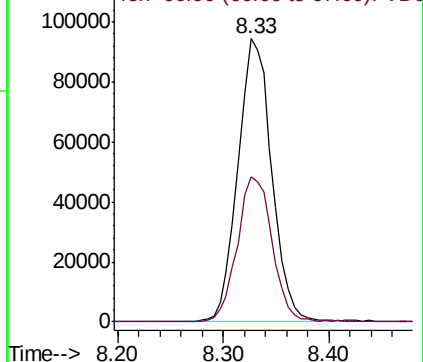


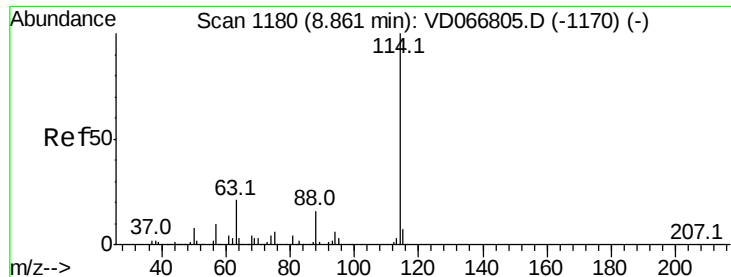
#33
1,2-Dichloroethane-d4
Concen: 53.982 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD066870.D
Acq: 25 Sep 2020 13:26

Tgt Ion: 65 Resp: 209826
Ion Ratio Lower Upper
65 100
67 52.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

WR-PILE-3-4

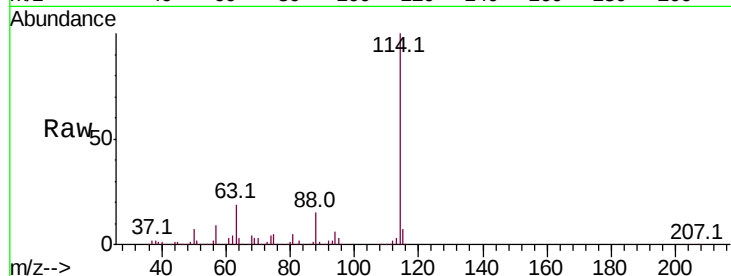
Tot Ion:114 Resp: 700579

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

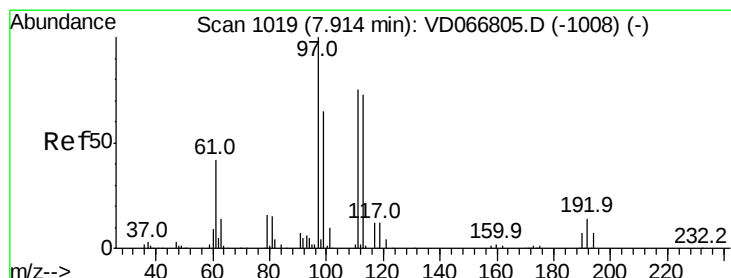
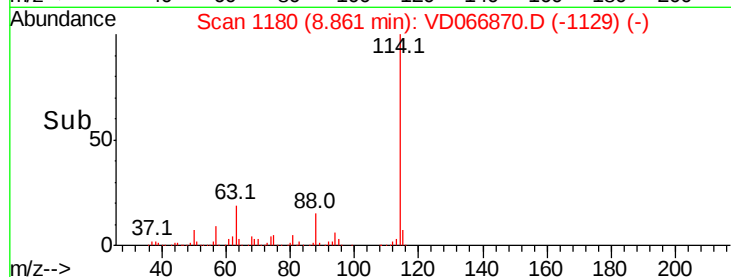
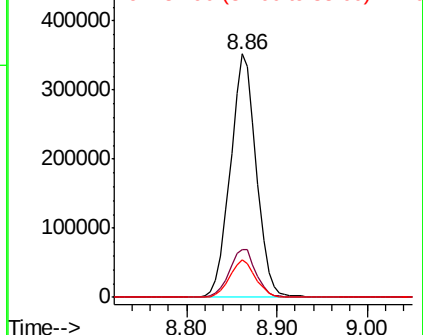
88 15.4 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.343 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

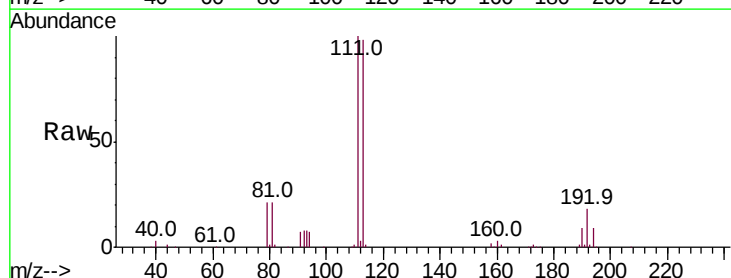
Tgt Ion:113 Resp: 224383

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

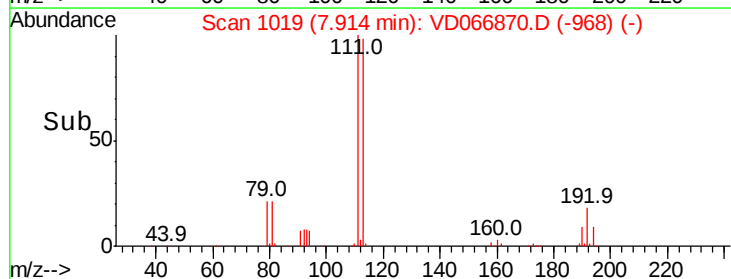
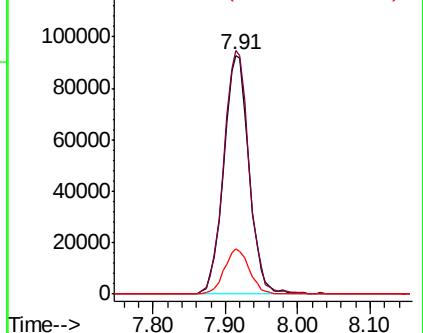
192 18.6 14.4 21.6

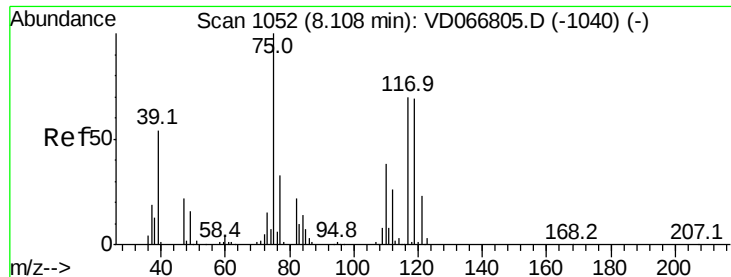


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.811 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

WR-PILE-3-4

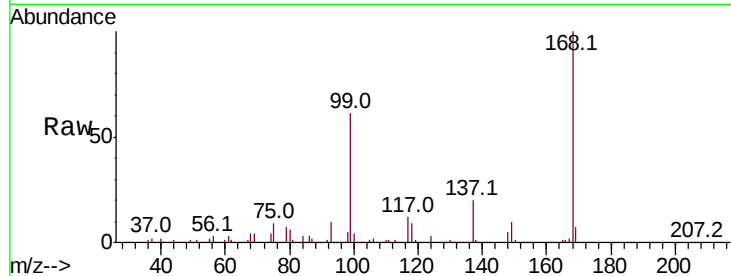
Tot Ion: 75 Resp: 33435

Ion Ratio Lower Upper

75 100

110 8.8 17.9 53.8#

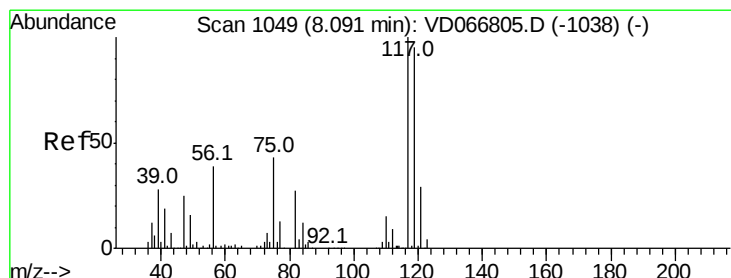
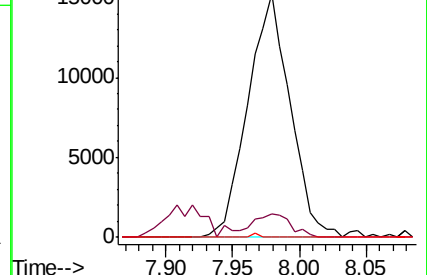
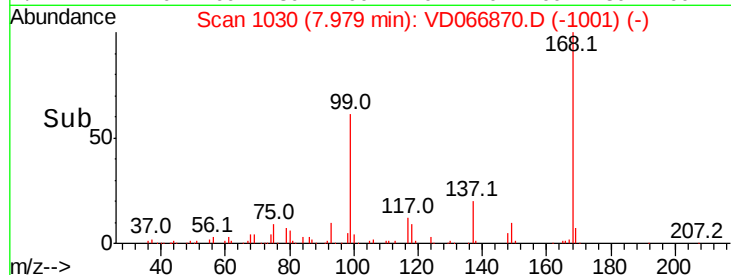
77 0.3 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.575 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

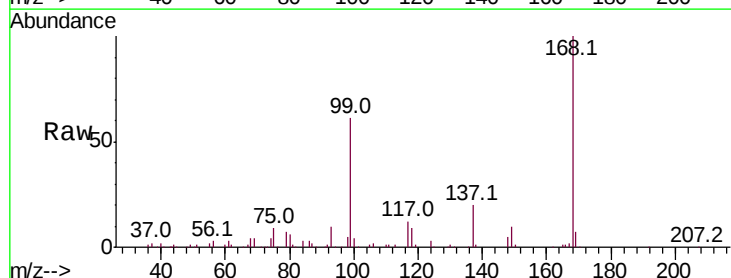
Tgt Ion: 117 Resp: 42360

Ion Ratio Lower Upper

117 100

119 5.2 75.8 113.8#

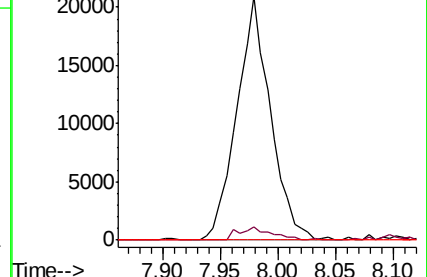
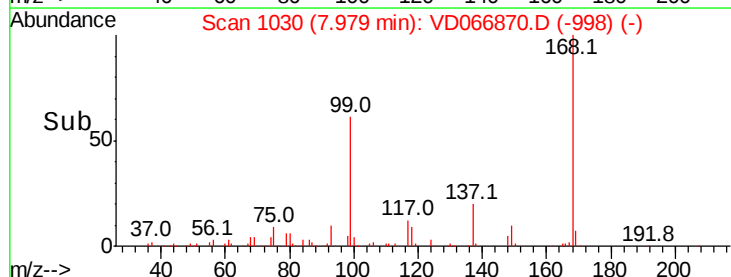
121 0.0 23.4 35.0#

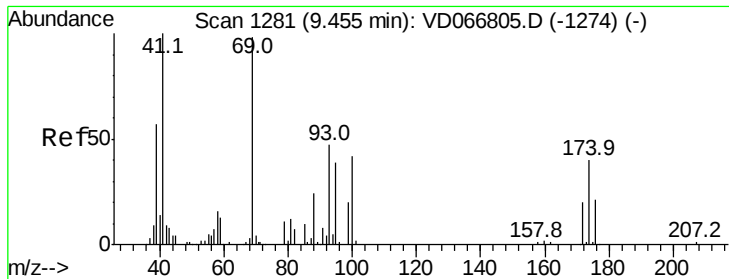


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.47 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

WR-PILE-3-4

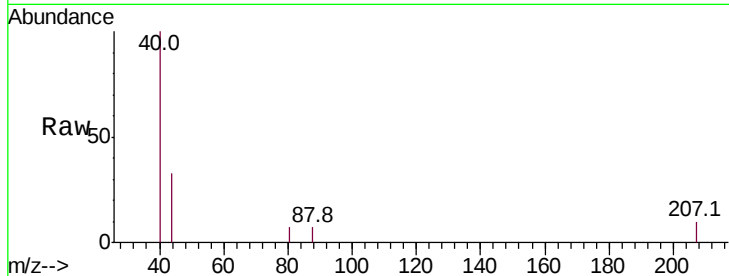
Tot Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 0.0 27.7 41.5#

58 0.0 55.5 83.3#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

9.47

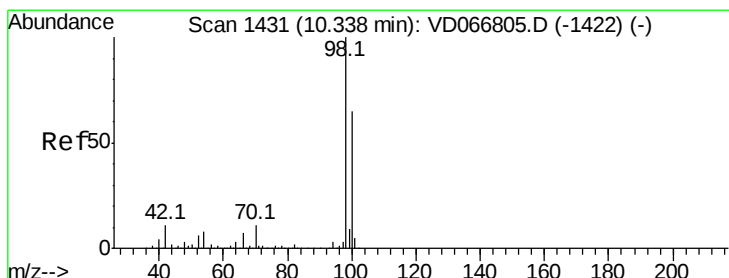
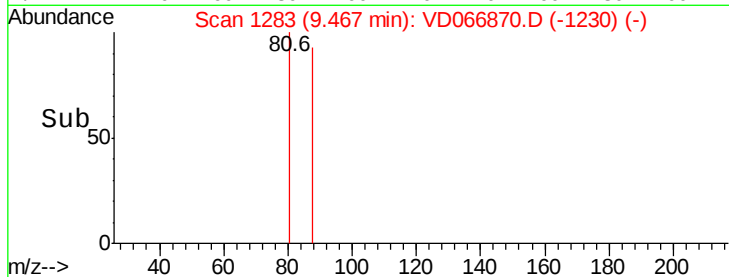
150

100

50

0

Time-->



#50

Toluene-d8

Concen: 56.444 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066870.D

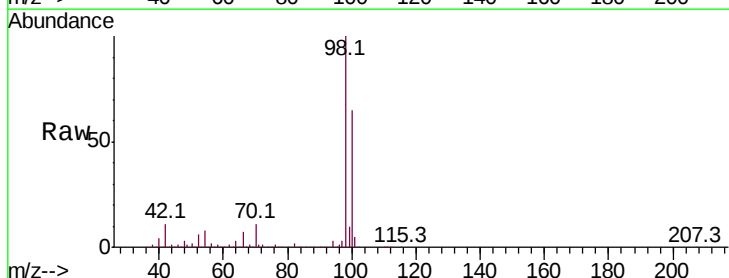
Acq: 25 Sep 2020 13:26

Tgt Ion: 98 Resp: 857168

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

500000

400000

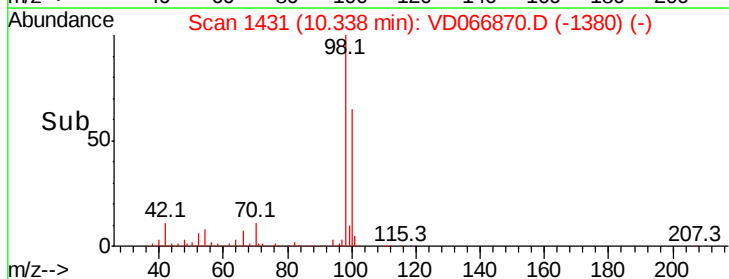
300000

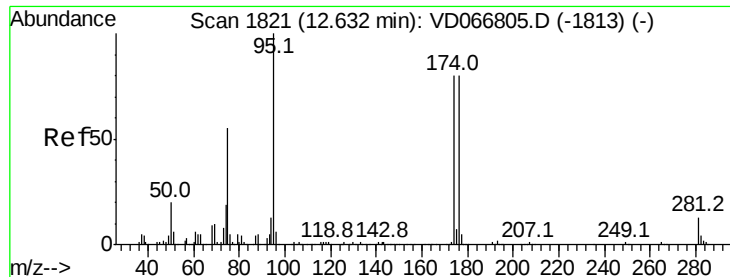
200000

100000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 59.500 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

WR-PILE-3-4

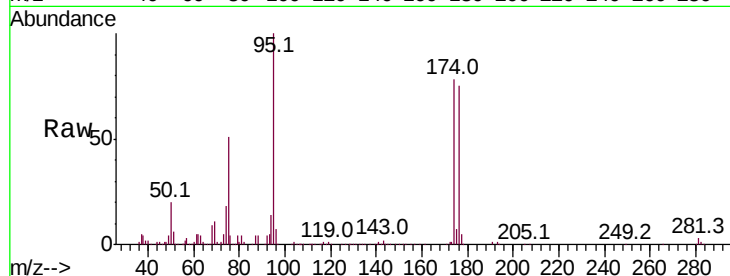
Tot Ion: 95 Resp: 309326

Ion Ratio Lower Upper

95 100

174 80.8 0.0 159.8

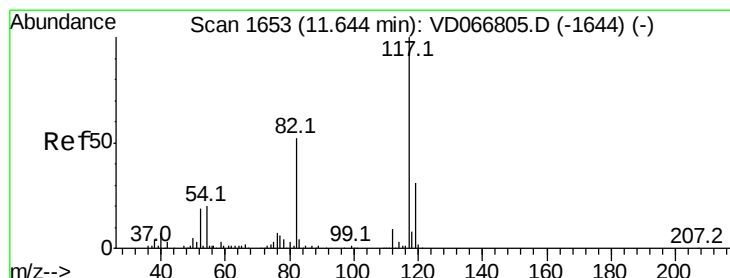
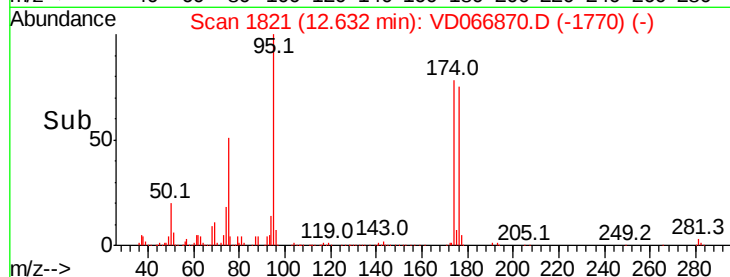
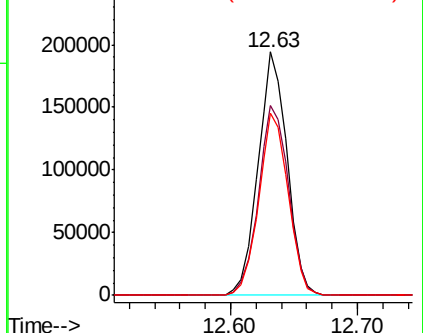
176 76.1 0.0 154.4



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: VD066870.D

Acq: 25 Sep 2020 13:26

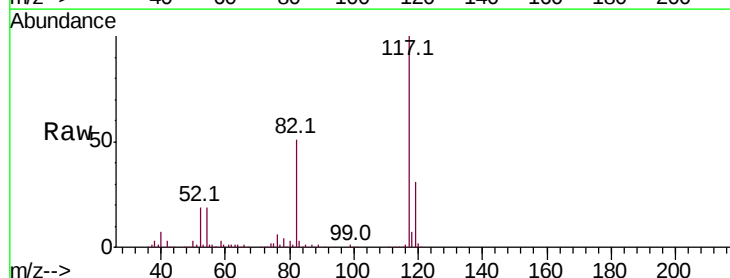
Tgt Ion: 117 Resp: 716347

Ion Ratio Lower Upper

117 100

82 51.3 41.8 62.6

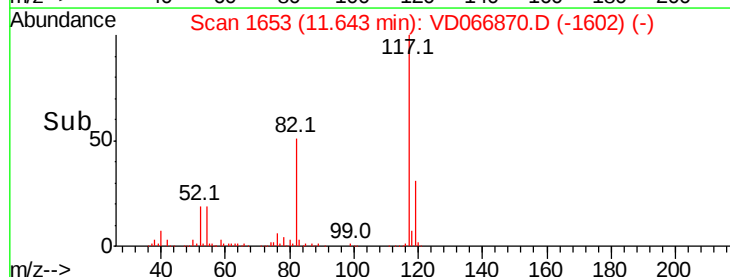
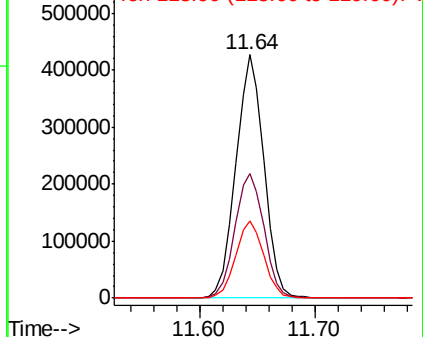
119 31.5 24.6 37.0

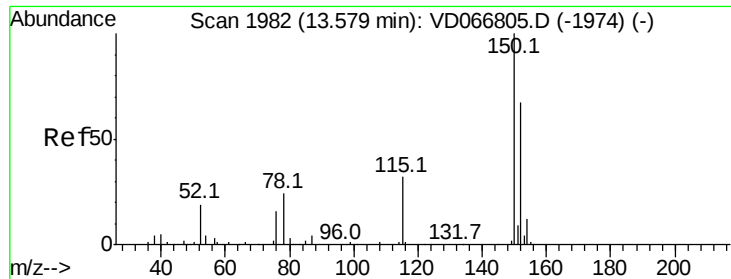


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

WR-PILE-3-4

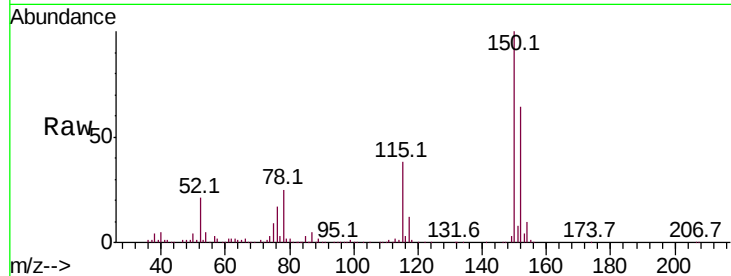
Tot Ion:152 Resp: 342129

Ion Ratio Lower Upper

152 100

115 60.0 30.3 91.0

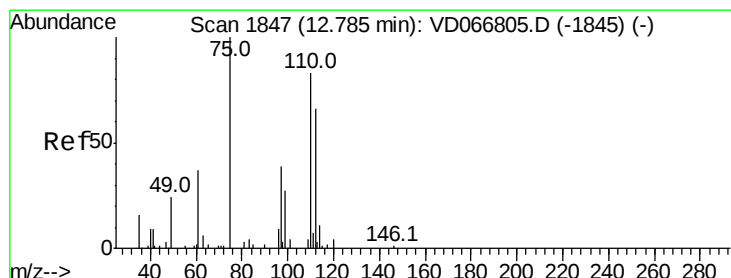
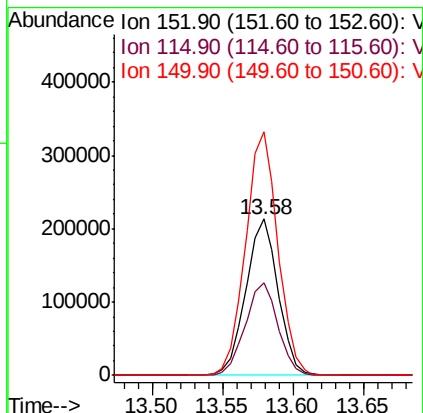
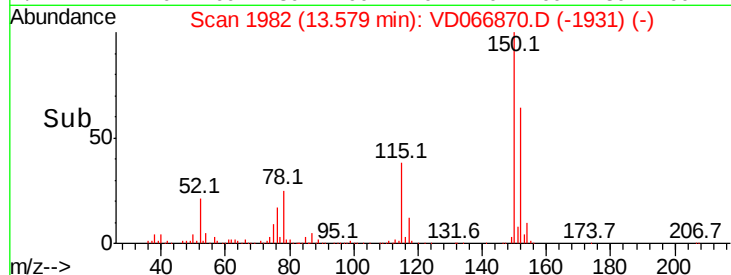
150 155.7 0.0 346.2



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: 55.696 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066870.D

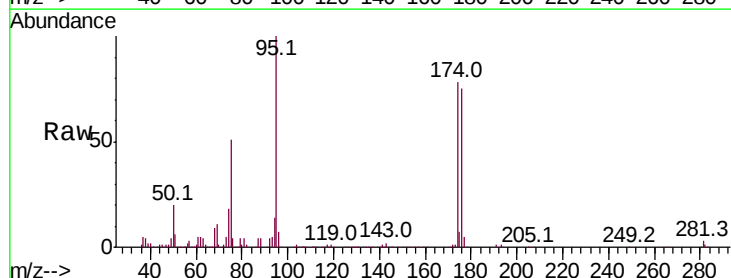
Acq: 25 Sep 2020 13:26

Tgt Ion: 75 Resp: 157914

Ion Ratio Lower Upper

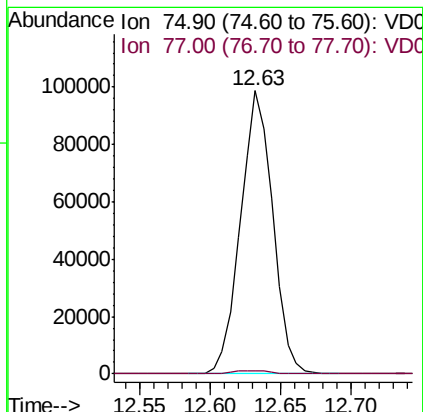
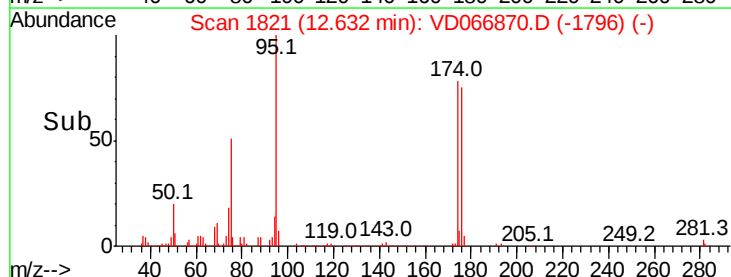
75 100

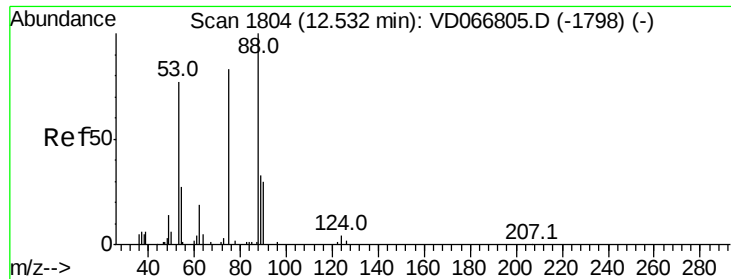
77 1.2 0.0 0.0#



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: 139.346 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

Instrument :

MSVOA_D

ClientSampleId :

WR-PILE-3-4

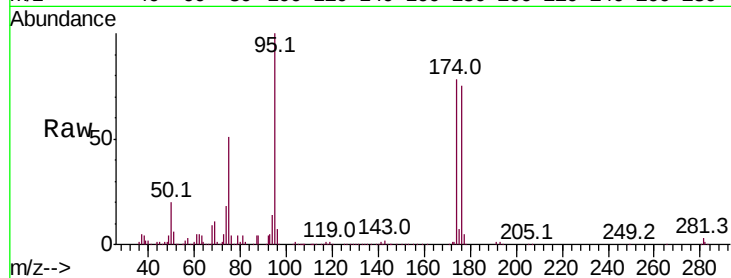
Tot Ion: 75 Resp: 157914

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

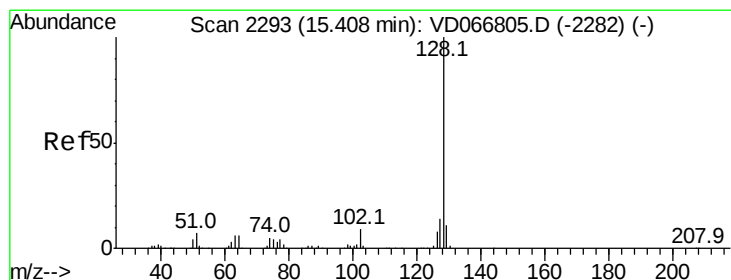
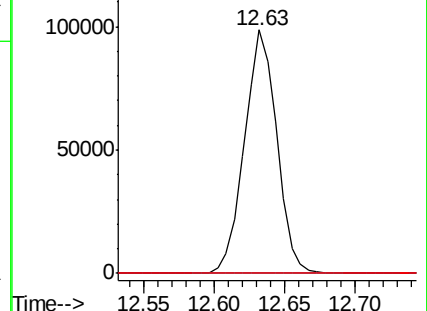
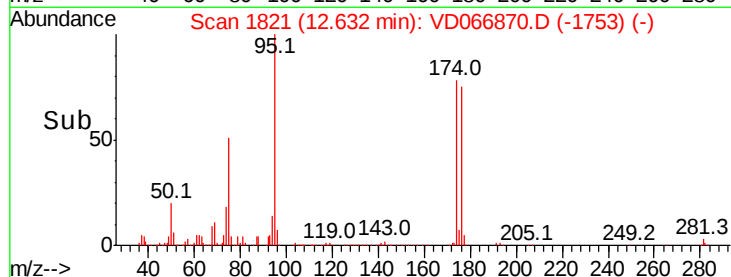
89 0.1 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#95

Naphthalene

Concen: 1.133 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD066870.D

Acq: 25 Sep 2020 13:26

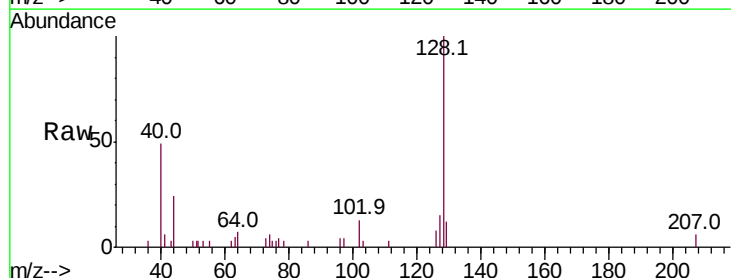
Tgt Ion: 128 Resp: 11832

Ion Ratio Lower Upper

128 100

127 15.4 10.6 16.0

129 14.7 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

