

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120920\
 Data File : VD067926.D
 Acq On : 09 Dec 2020 14:19
 Operator : VA/SY
 Sample : L4977-01
 Misc : 5.50G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-11976

Quant Time: Dec 10 02:09:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 02 08:05:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	216771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	302567	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	259004	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	120977	50.00	ug/l	0.00

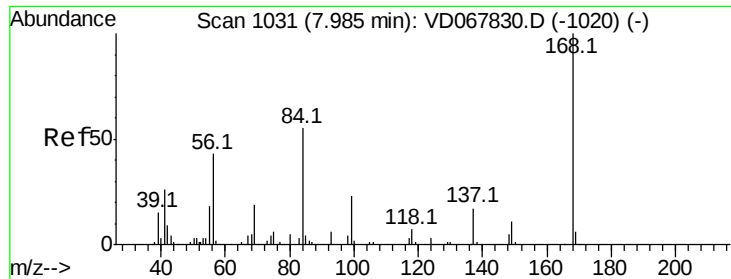
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	99693	42.84	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	85.68%
35) Dibromofluoromethane	7.92	113	89763	44.34	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	88.68%
50) Toluene-d8	10.34	98	343372	47.11	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	94.22%
62) 4-Bromofluorobenzene	12.64	95	103896	41.23	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	82.46%

Target Compounds

					Qvalue
20) Methylene Chloride	4.97	84	7018	Below Cal	# 85
31) Cyclohexane	7.99	56	4816	1.964	ug/l # 36
36) 1,1-Dichloropropene	7.98	75	14487	5.531	ug/l # 50
38) Carbon Tetrachloride	7.98	117	23064	5.820	ug/l # 14
51) 4-Methyl-2-Pentanone	10.34	43	1324	2.014	ug/l # 1
76) 1,2,3-Trichloropropane	12.64	75	58718	66.650	ug/l # 1
81) trans-1,4-Dichloro-2-buten	12.64	75	58718	159.433	ug/l # 7
95) Naphthalene	15.41	128	6598	1.675	ug/l 97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

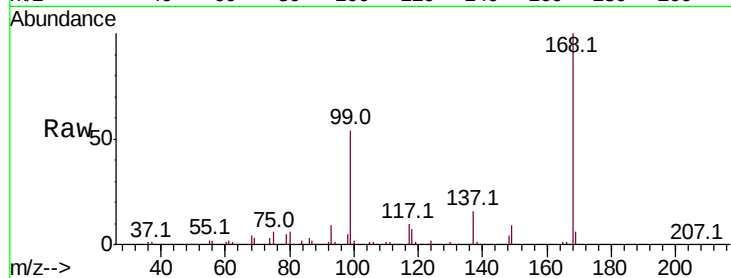
72-11976

Tot Ion:168 Resp: 216771

Ion Ratio Lower Upper

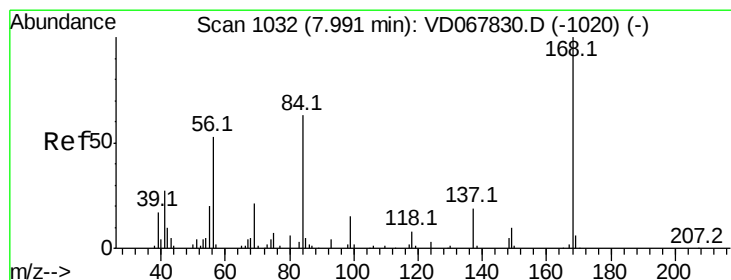
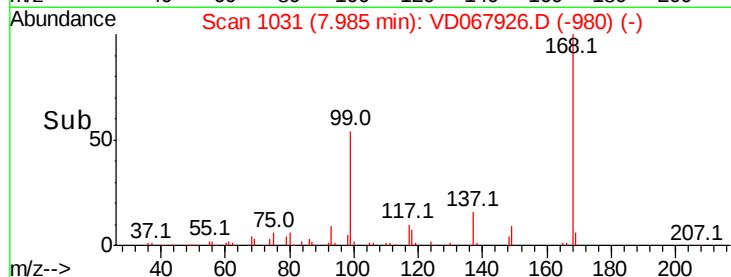
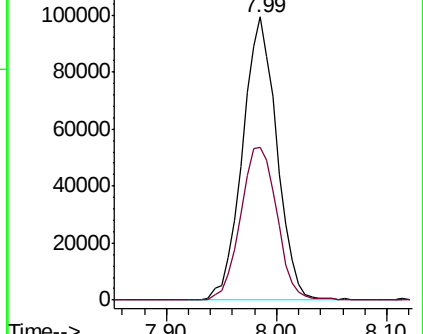
168 100

99 53.8 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#31

Cyclohexane

Concen: 1.964 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.01 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

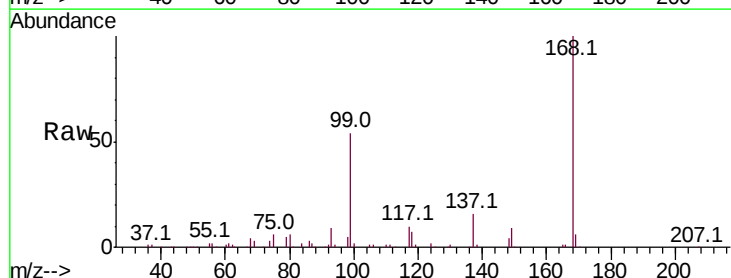
Tgt Ion: 56 Resp: 4816

Ion Ratio Lower Upper

56 100

69 125.6 32.1 48.1#

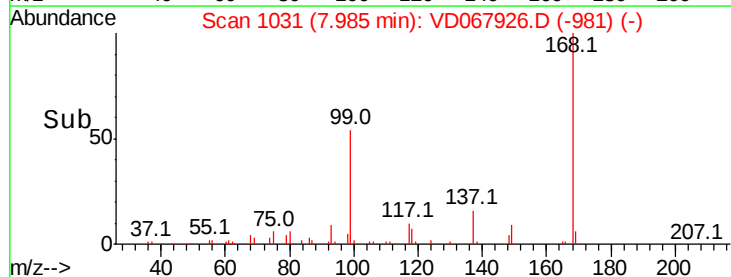
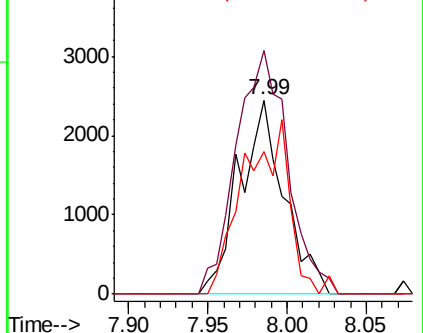
84 73.8 93.2 139.8#

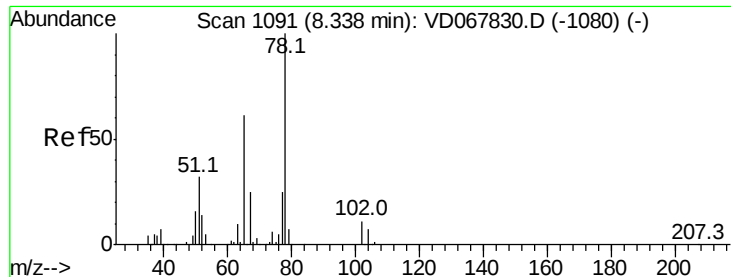


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 42.840 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

Instrument :

MSVOA_D

ClientSampled :

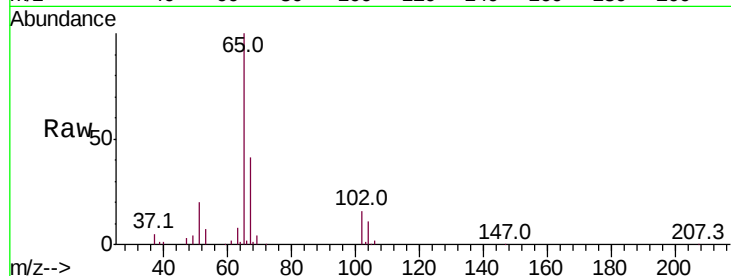
72-11976

Tot Ion: 65 Resp: 99693

Ion Ratio Lower Upper

65 100

67 45.1 0.0 92.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

50000

40000

30000

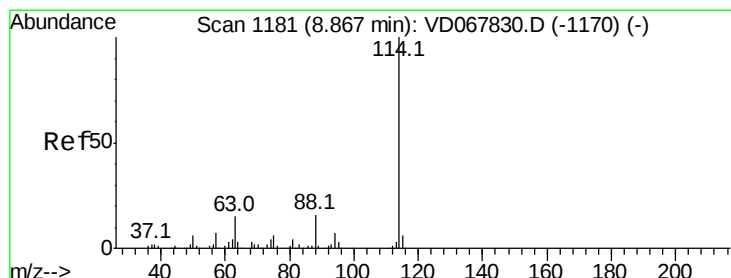
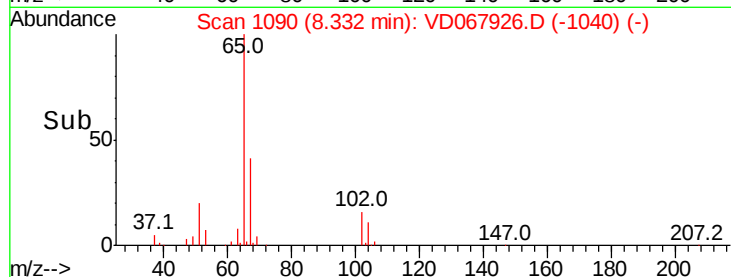
20000

10000

0

8.25 8.30 8.35 8.40 8.45

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

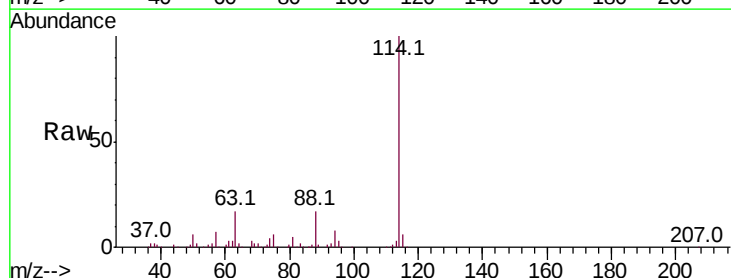
Tgt Ion: 114 Resp: 302567

Ion Ratio Lower Upper

114 100

63 16.7 0.0 30.8

88 16.6 0.0 31.8



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

200000

150000

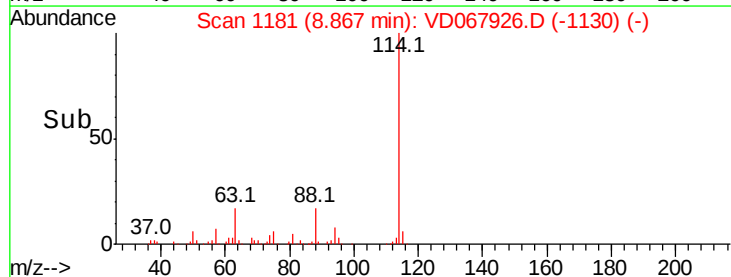
100000

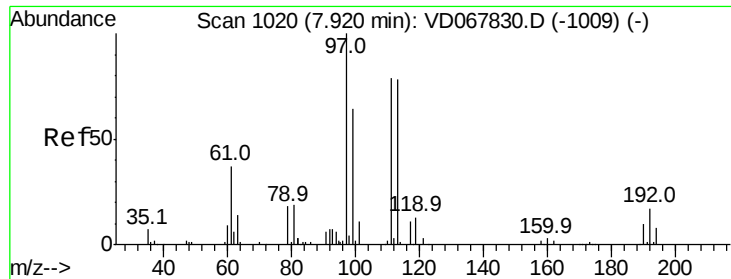
50000

0

8.80 8.90 9.00

Time-->

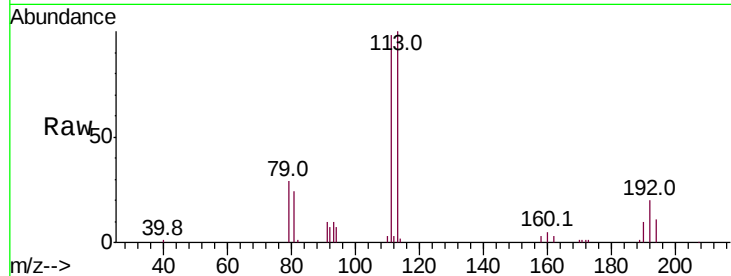




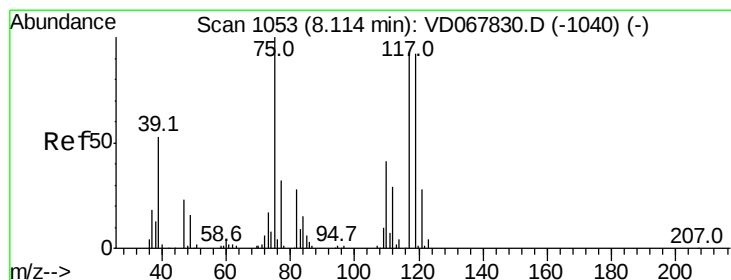
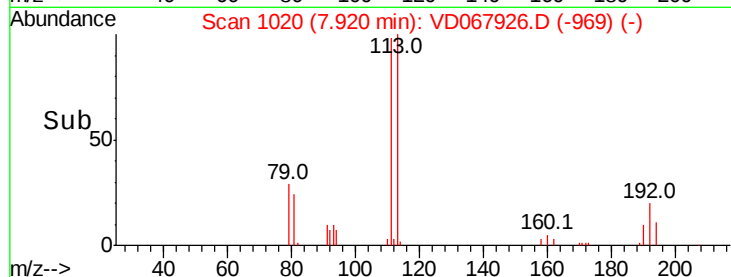
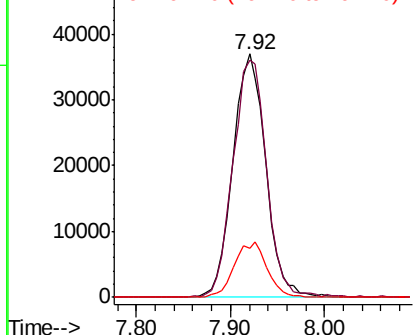
#35
 Dibromofluoromethane
 Concen: 44.336 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD067926.D
 Acq: 09 Dec 2020 14:19

Instrument :
 MSVOA_D
 ClientSampleId :
 72-11976

Tot Ion:113 Resp: 89763
 Ion Ratio Lower Upper
 113 100
 111 99.4 81.2 121.8
 192 22.4 16.8 25.2

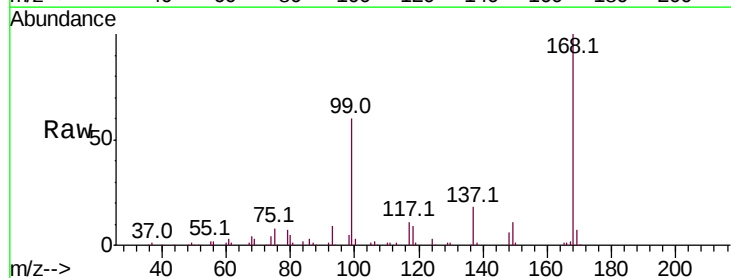


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

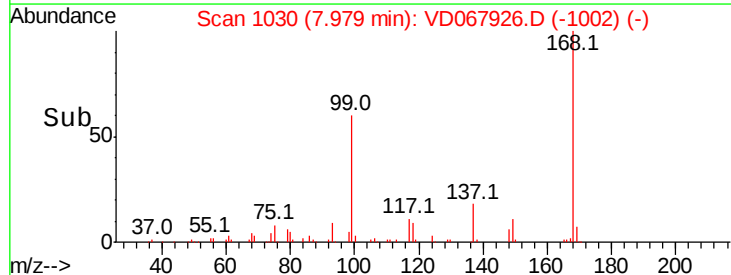
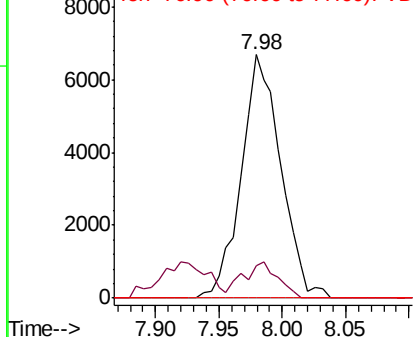


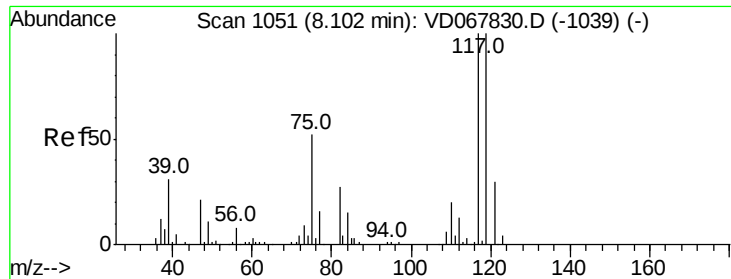
#36
 1,1-Dichloropropene
 Concen: 5.531 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067926.D
 Acq: 09 Dec 2020 14:19

Tgt Ion: 75 Resp: 14487
 Ion Ratio Lower Upper
 75 100
 110 12.9 20.3 61.0#
 77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VDC





#38

Carbon Tetrachloride

Concen: 5.820 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

72-11976

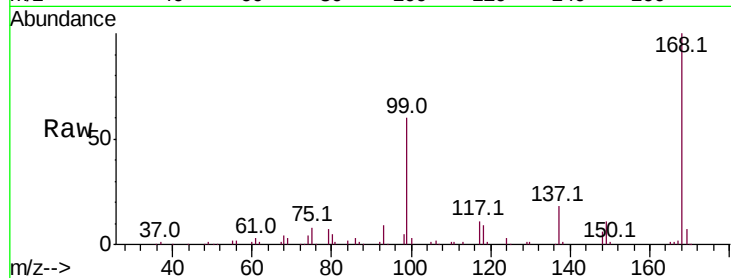
Tot Ion:117 Resp: 23064

Ion Ratio Lower Upper

117 100

119 5.0 79.7 119.5#

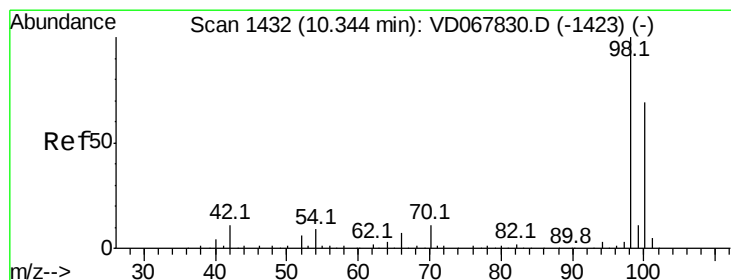
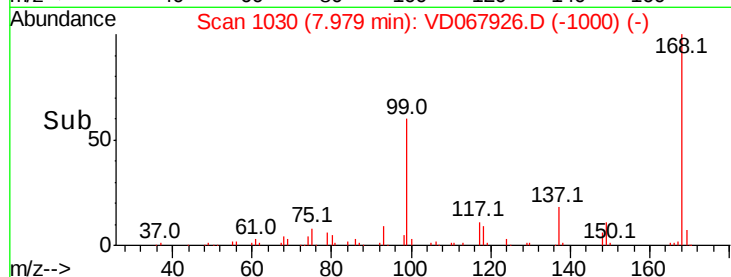
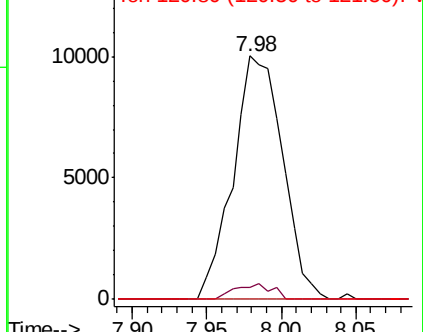
121 0.0 23.8 35.6#



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



#50

Toluene-d8

Concen: 47.113 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067926.D

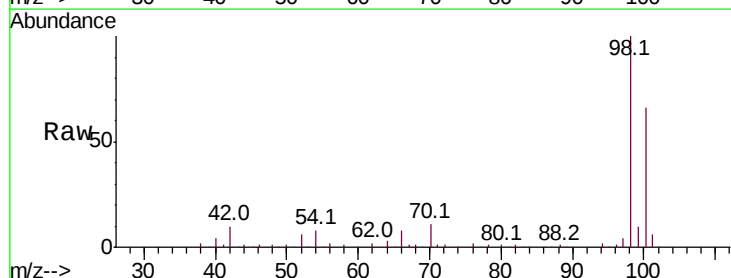
Acq: 09 Dec 2020 14:19

Tgt Ion: 98 Resp: 343372

Ion Ratio Lower Upper

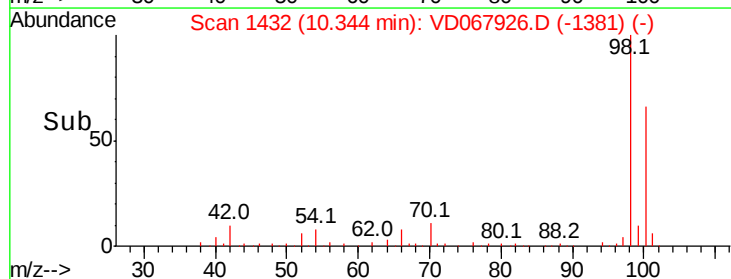
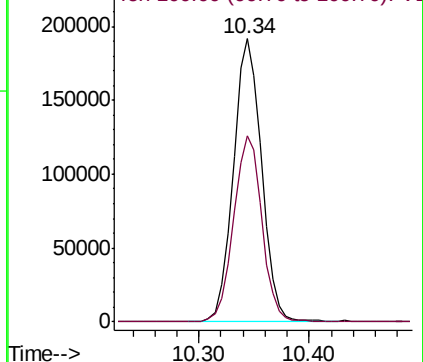
98 100

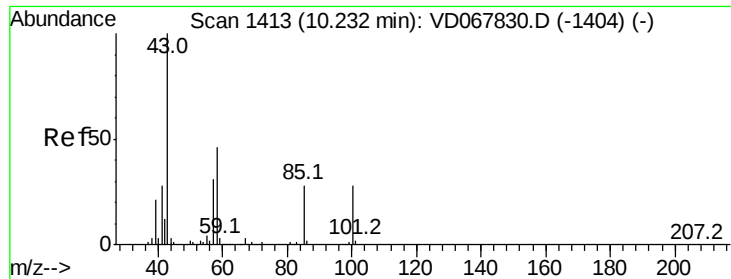
100 66.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 2.014 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.11 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

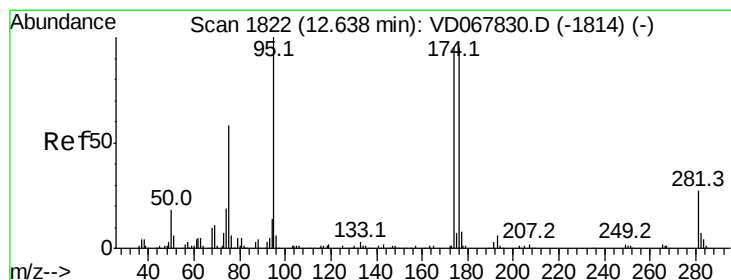
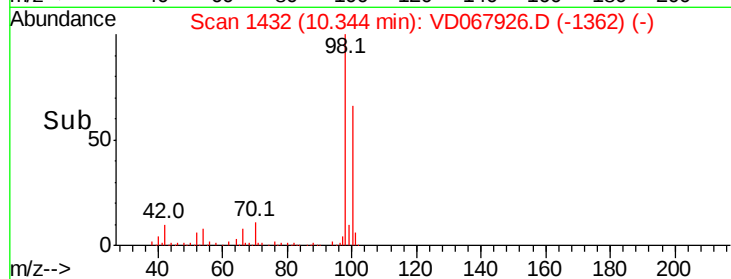
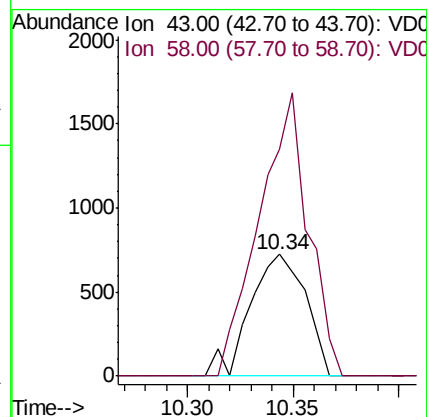
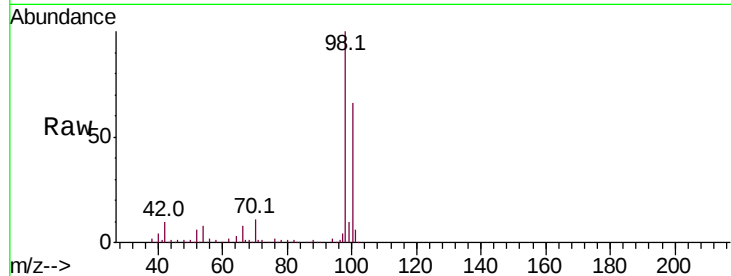
72-11976

Tot Ion: 43 Resp: 1324

Ion Ratio Lower Upper

43 100

58 205.7 35.7 53.5#



#62

4-Bromofluorobenzene

Concen: 41.233 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

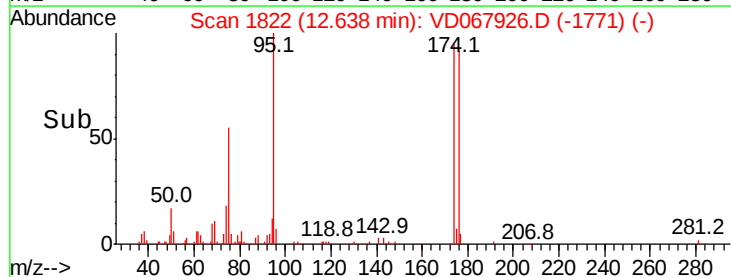
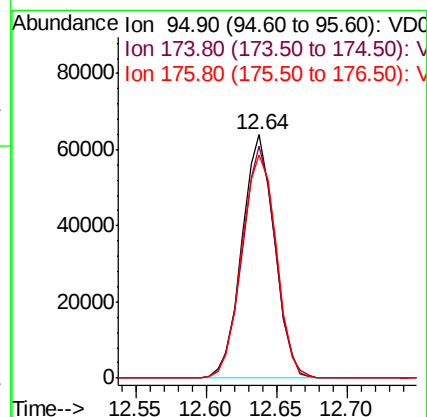
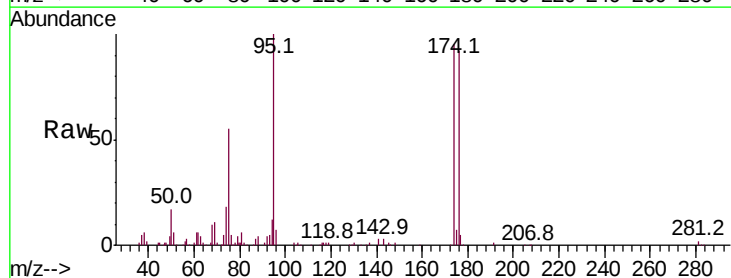
Tgt Ion: 95 Resp: 103896

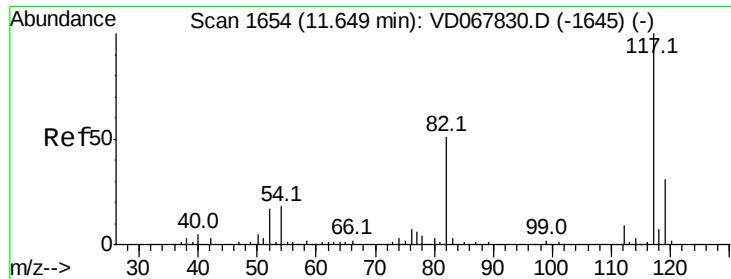
Ion Ratio Lower Upper

95 100

174 96.2 0.0 186.0

176 97.1 0.0 184.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

72-11976

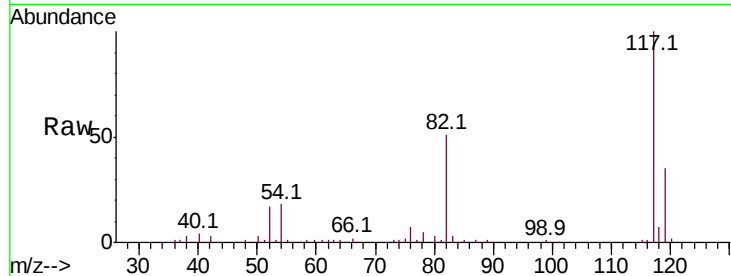
Tot Ion:117 Resp: 259004

Ion Ratio Lower Upper

117 100

82 51.3 40.6 60.8

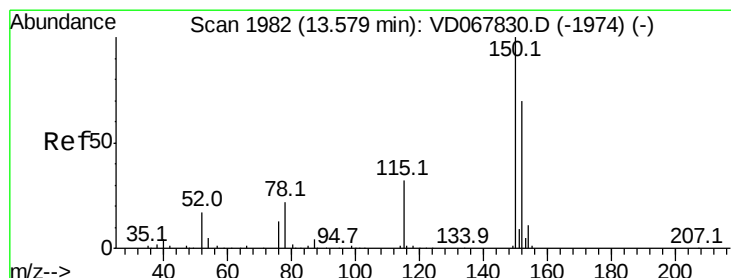
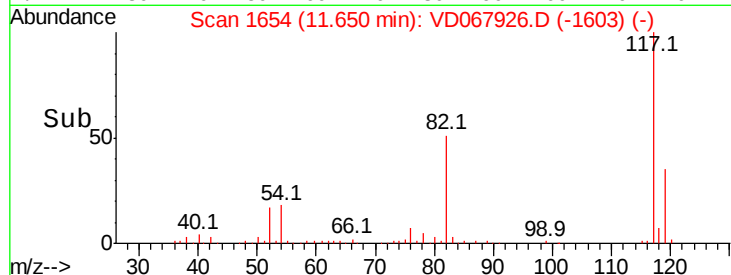
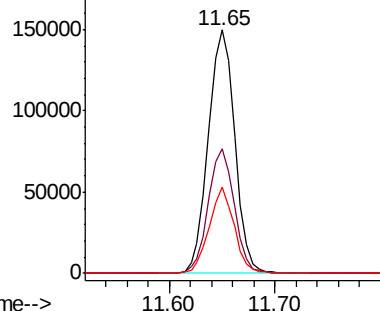
119 35.3 25.1 37.7



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: VD067926.D

Acq: 09 Dec 2020 14:19

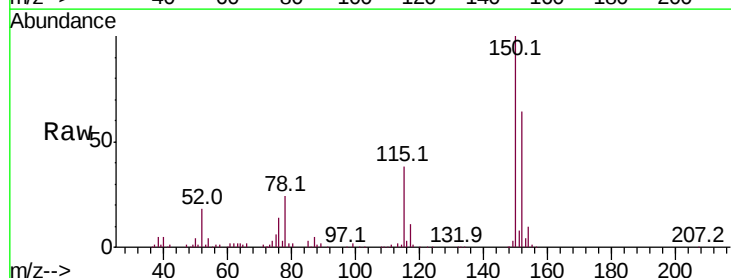
Tgt Ion:152 Resp: 120977

Ion Ratio Lower Upper

152 100

115 58.6 29.1 87.4

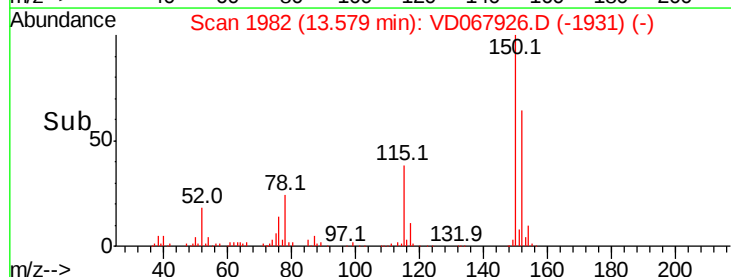
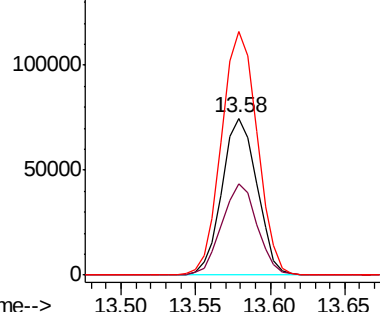
150 159.2 0.0 339.0

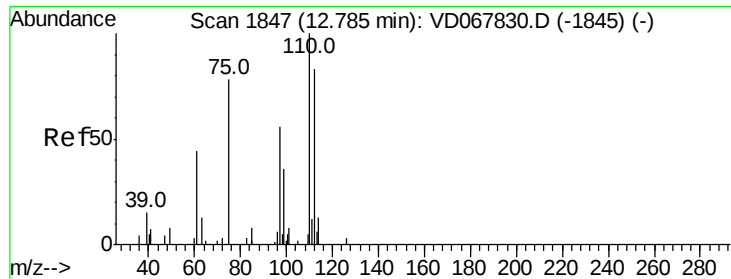


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 66.650 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

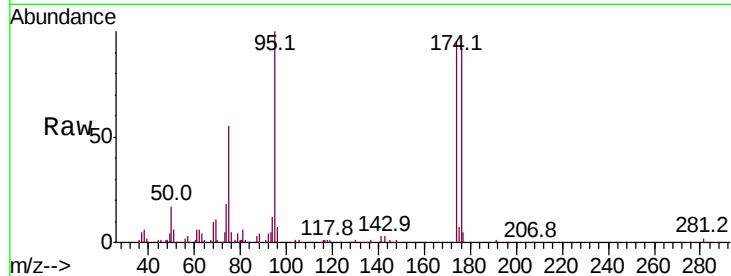
72-11976

Tot Ion: 75 Resp: 58718

Ion Ratio Lower Upper

75 100

77 1.2 175.9 527.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

40000

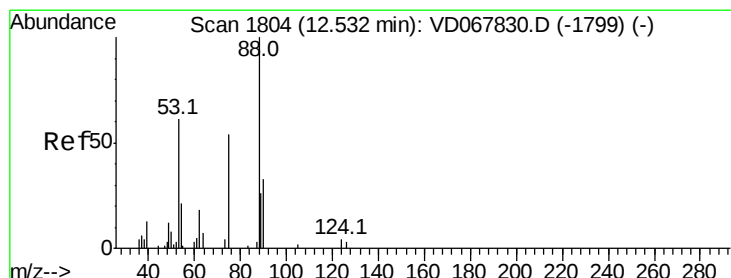
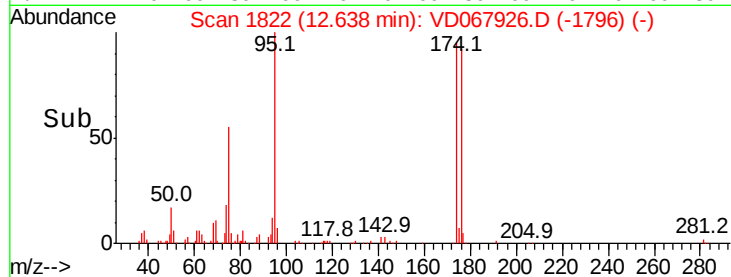
30000

20000

10000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 159.433 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

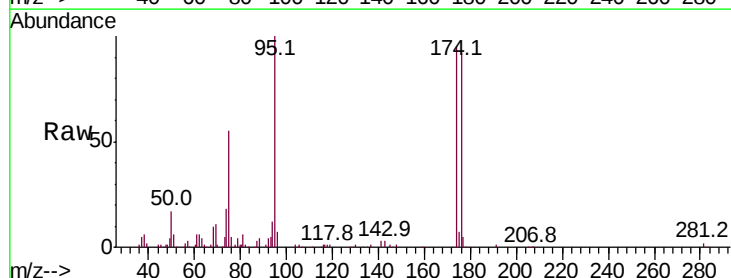
Tgt Ion: 75 Resp: 58718

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

89 0.0 41.0 61.6#



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

12.64

40000

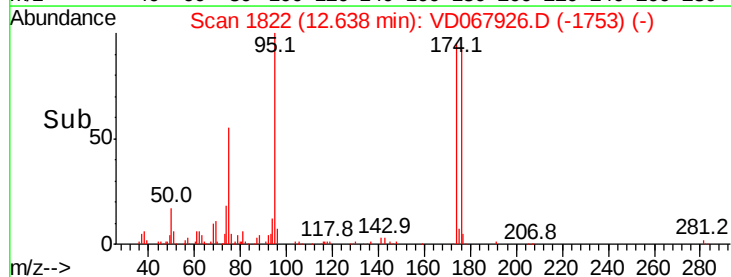
30000

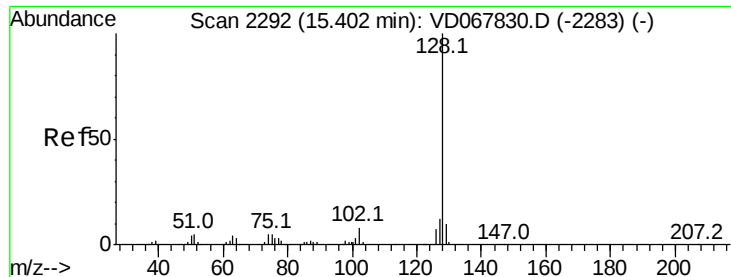
20000

10000

0

Time--> 12.55 12.60 12.65 12.70





#95

Naphthalene

Concen: 1.675 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.01 min

Lab File: VD067926.D

Acq: 09 Dec 2020 14:19

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MSVOA_D

ClientSampleId :

72-11976

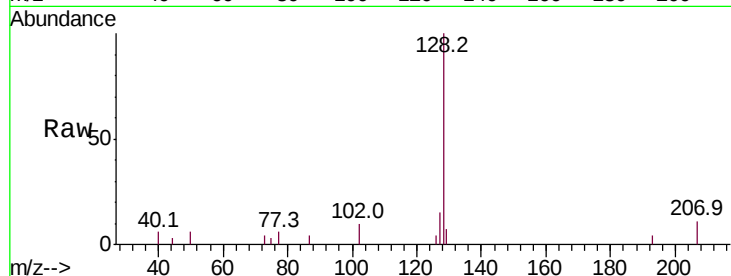
Tot Ion:128 Resp: 6598

Ion Ratio Lower Upper

128 100

127 11.7 10.6 15.8

129 12.5 9.0 13.6



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

