

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101220\
 Data File : VD067237.D
 Acq On : 12 Oct 2020 17:15
 Operator : VA/SY
 Sample : L4369-07
 Misc : 5.11G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-4

Quant Time: Oct 13 00:17:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	328465	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	549047	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	505052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	235147	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	170890	54.01	ug/l	0.00
Spiked Amount			Recovery	=	108.02%	
35) Dibromofluoromethane	7.92	113	180250	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
50) Toluene-d8	10.34	98	640241	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
62) 4-Bromofluorobenzene	12.64	95	213535	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	

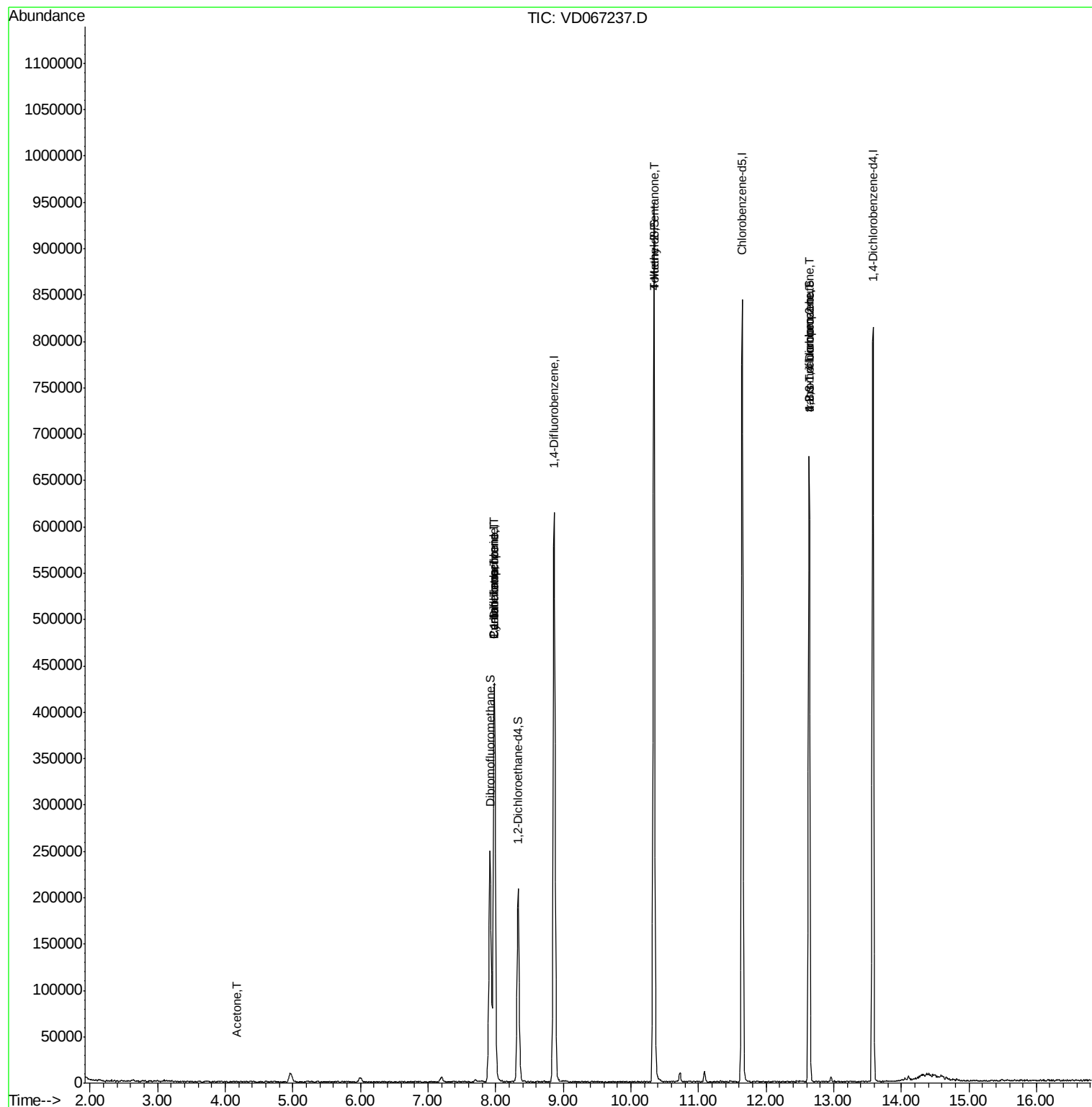
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	146	Below Cal	#	40
5) Bromomethane	2.78	94	68	Below Cal	#	1
11) Tert butyl alcohol	5.21	59	244	Below Cal	#	72
16) Acetone	4.17	43	514	1.064	ug/l #	42
20) Methylene Chloride	4.96	84	8475	Below Cal	#	87
26) 2,2-Dichloropropane	7.20	77	345	Below Cal	#	53
31) Cyclohexane	7.98	56	5980	1.259	ug/l #	31
36) 1,1-Dichloropropene	7.98	75	23532	4.598	ug/l #	52
38) Carbon Tetrachloride	7.98	117	34064	6.152	ug/l #	17
51) 4-Methyl-2-Pentanone	10.34	43	2744	1.687	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	108087	52.771	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	108087	131.566	ug/l #	12

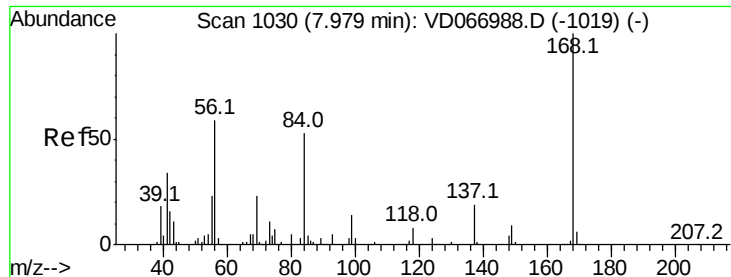
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067237.D

Acq: 12 Oct 2020 17:15

Instrument :

MSVOA_D

ClientSampleID :

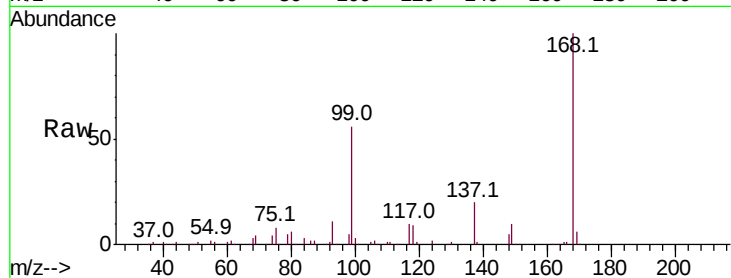
HD-4

Tot Ion:168 Resp: 328465

Ion Ratio Lower Upper

168 100

99 56.2 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

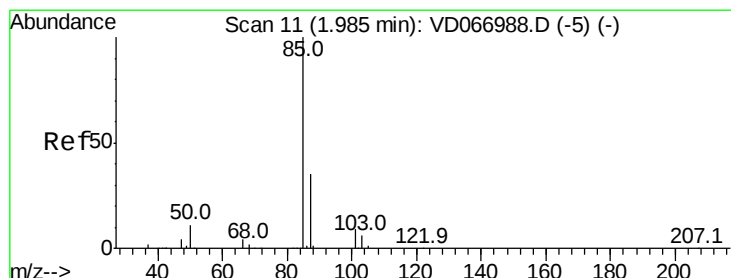
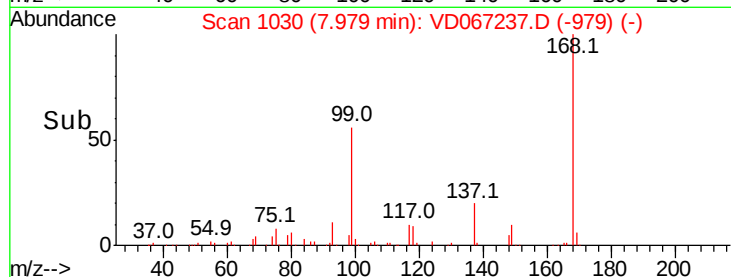
100000

50000

0

Time-->

7.90 7.95 8.00 8.05



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067237.D

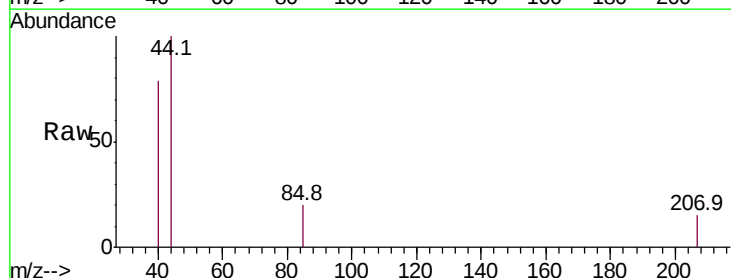
Acq: 12 Oct 2020 17:15

Tgt Ion: 85 Resp: 146

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

400

300

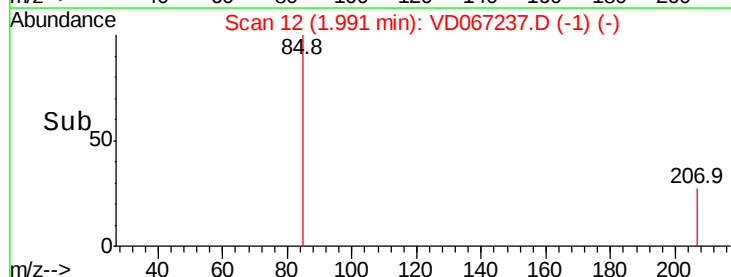
200

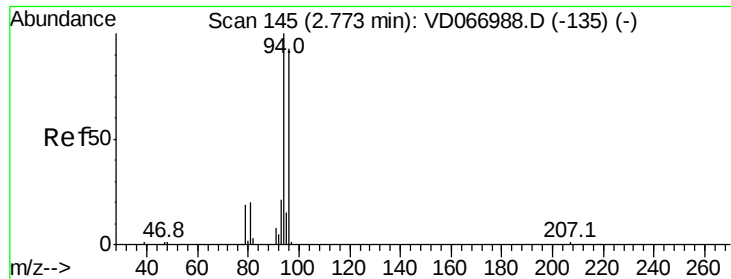
100

0

Time-->

1.97 1.98 1.99 2.00 2.01





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

Instrument :

MSVOA_D

ClientSampleID :

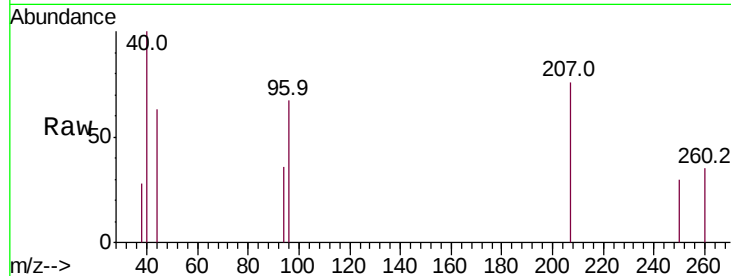
HD-4

Tot Ion: 94 Resp: 68

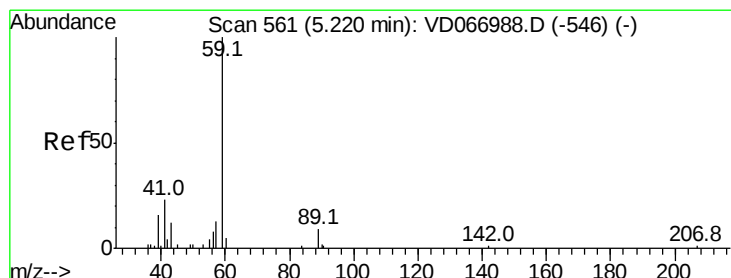
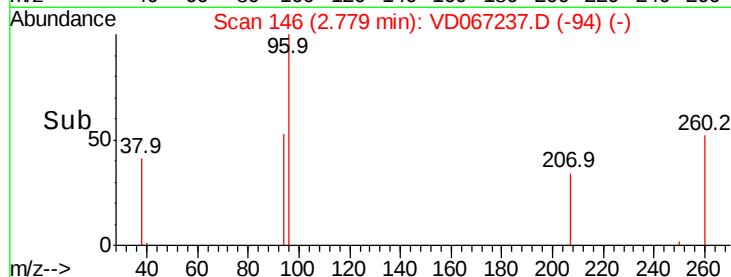
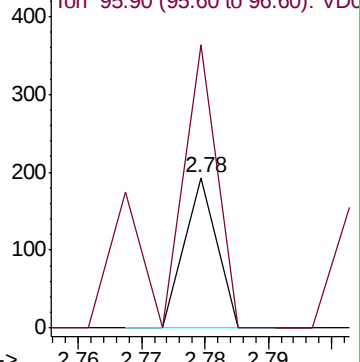
Ion Ratio Lower Upper

94 100

96 188.1 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD067237.D

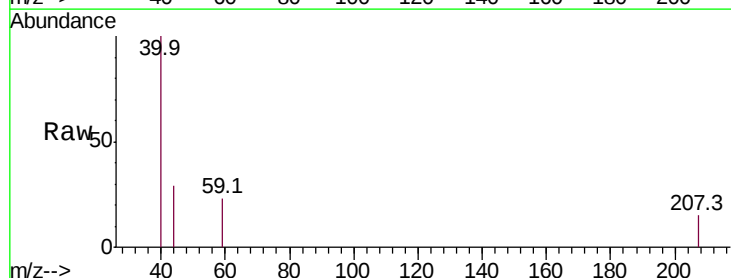
Acq: 12 Oct 2020 17:15

Tgt Ion: 59 Resp: 244

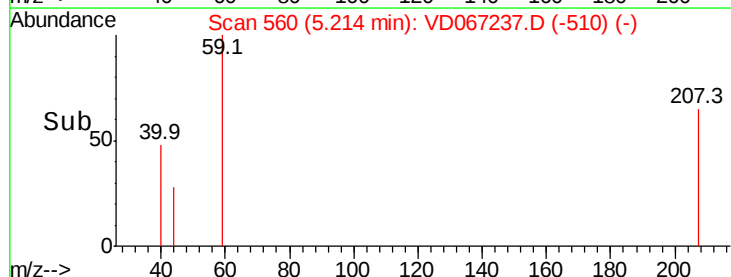
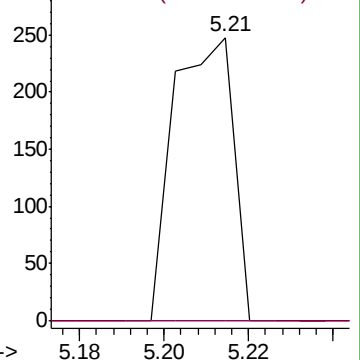
Ion Ratio Lower Upper

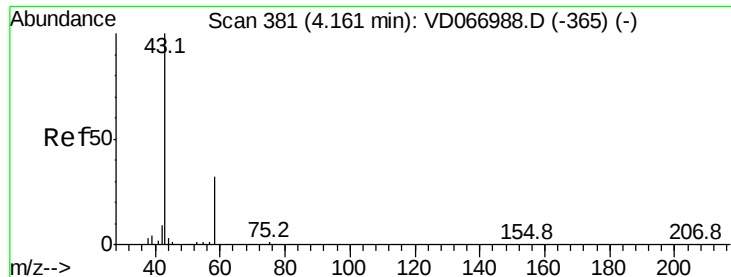
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC





#16

Acetone

Concen: 1.064 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

Instrument :

MSVOA_D

ClientSampleId :

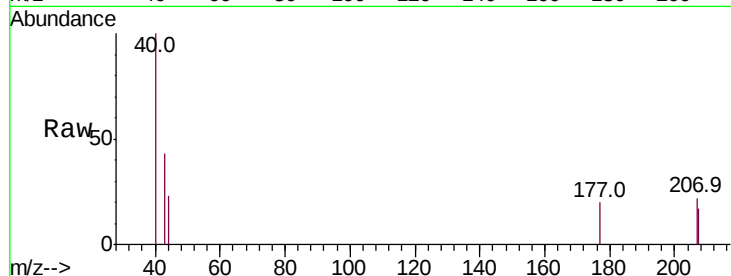
HD-4

Tot Ion: 43 Resp: 514

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

400

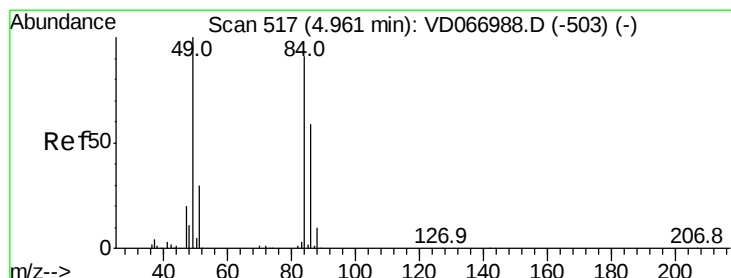
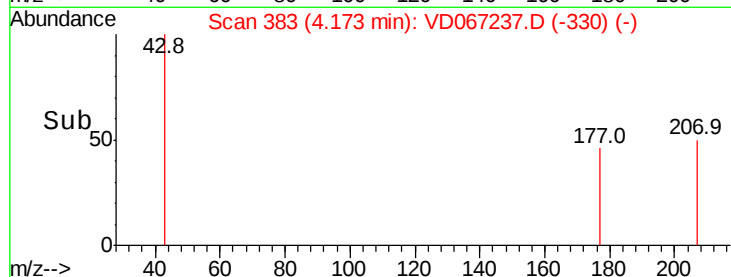
300

200

100

0

Time--> 4.12 4.14 4.16 4.18 4.20



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

Tgt Ion: 84 Resp: 8475

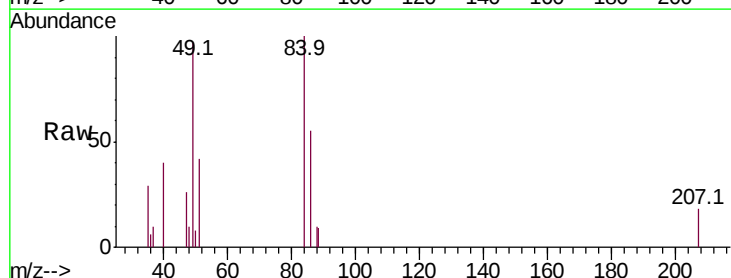
Ion Ratio Lower Upper

84 100

49 97.5 88.2 132.2

51 41.5 26.6 39.8#

86 55.2 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

4000

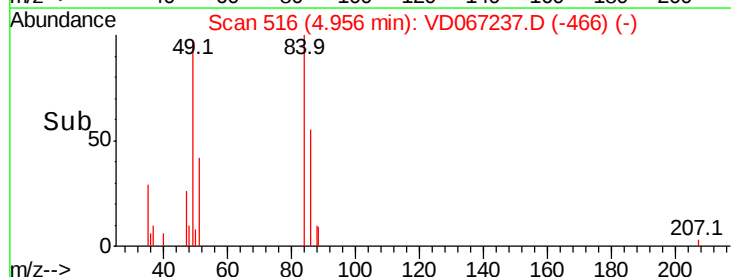
3000

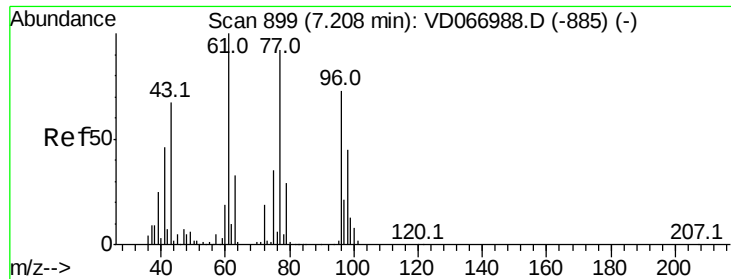
2000

1000

0

Time--> 4.85 4.90 4.95 5.00 5.05

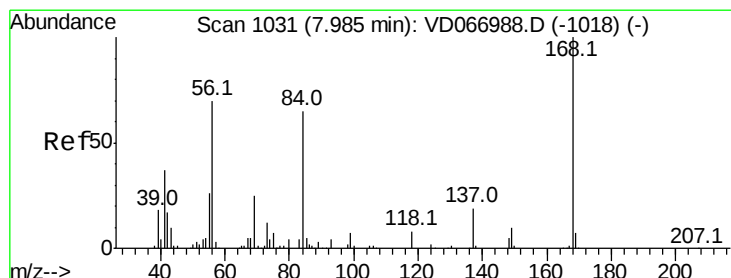
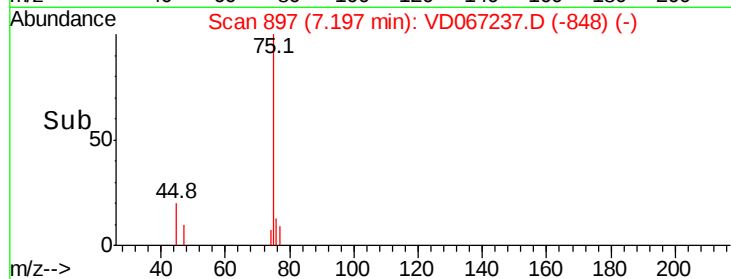
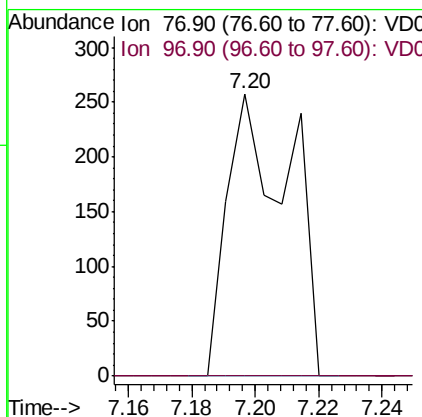
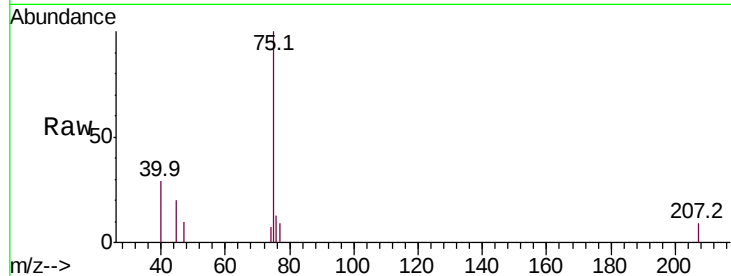




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.20 min Scan# 897
Delta R.T. -0.01 min
Lab File: VD067237.D
Acq: 12 Oct 2020 17:15

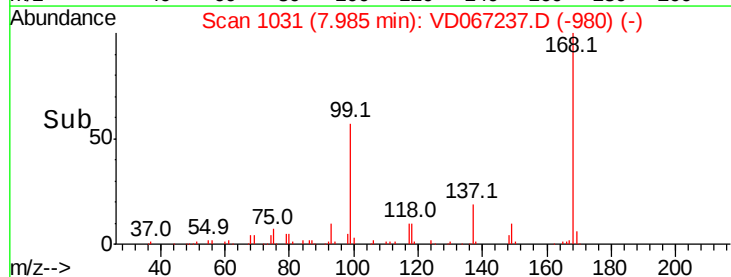
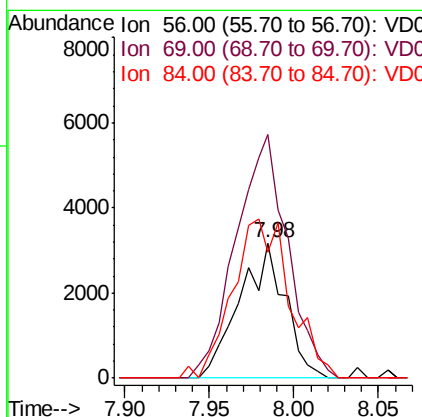
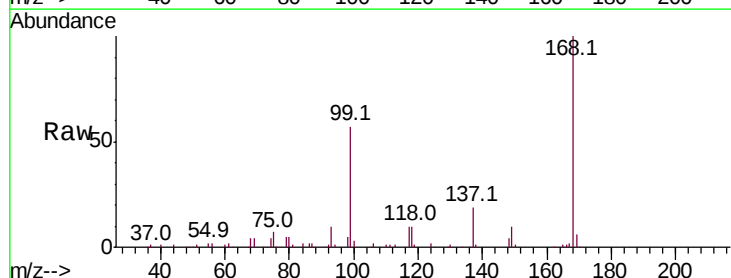
Instrument :
MSVOA_D
ClientSampleId :
HD-4

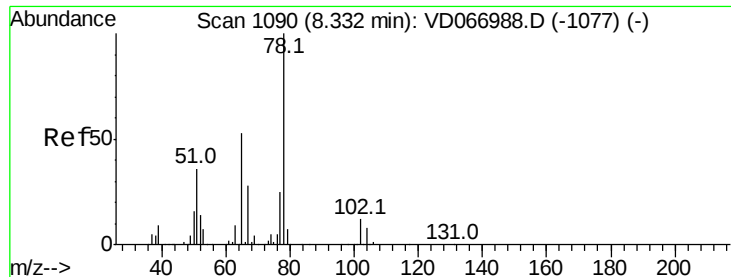
Tot Ion: 77 Resp: 345
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#31
Cyclohexane
Concen: 1.259 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD067237.D
Acq: 12 Oct 2020 17:15

Tgt Ion: 56 Resp: 5980
Ion Ratio Lower Upper
56 100
69 180.6 29.0 43.6#
84 93.0 74.2 111.2

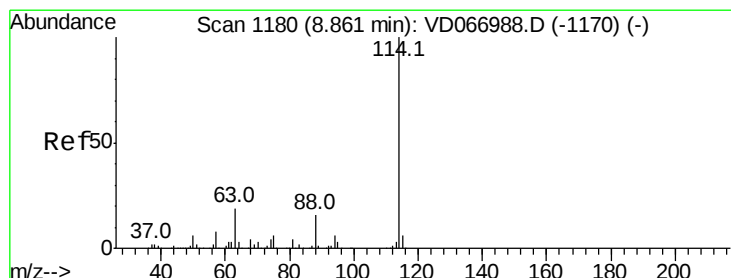
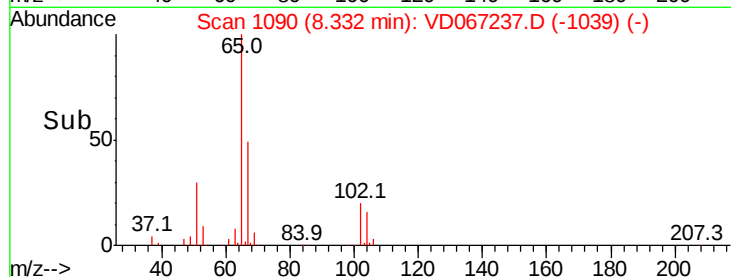
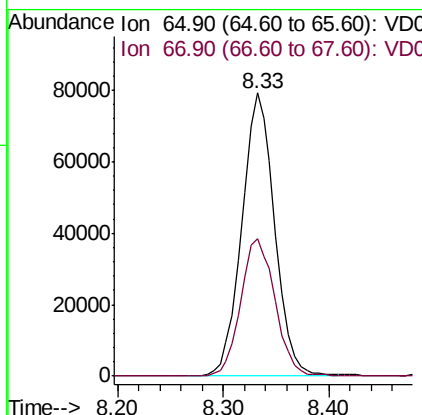
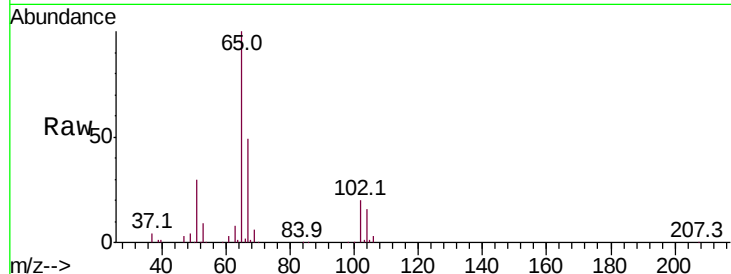




#33
 1,2-Dichloroethane-d4
 Concen: 54.015 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067237.D
 Acq: 12 Oct 2020 17:15

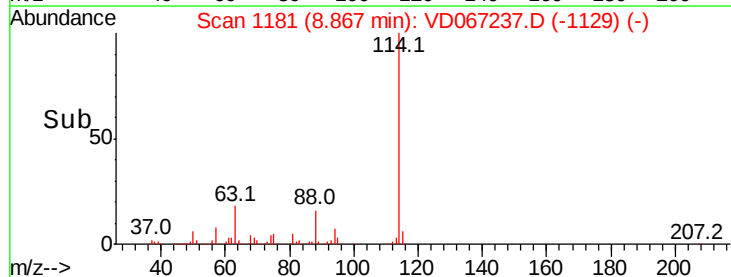
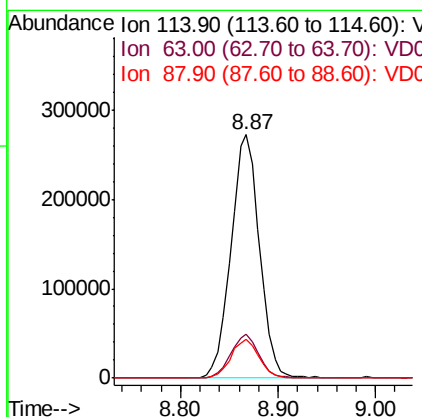
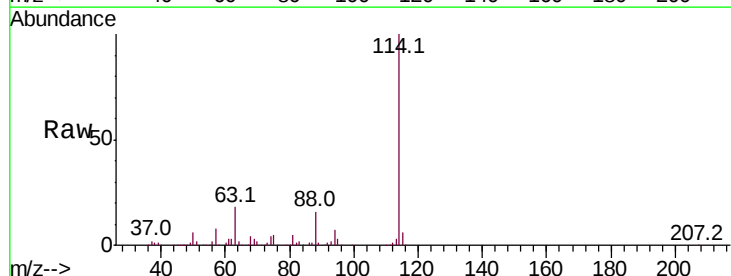
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-4

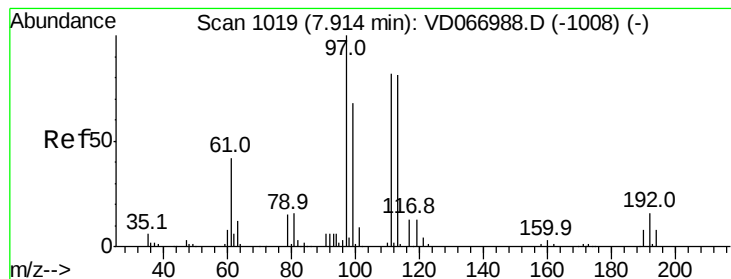
Tot Ion: 65 Resp: 170890
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.01 min
 Lab File: VD067237.D
 Acq: 12 Oct 2020 17:15

Tgt Ion:114 Resp: 549047
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 38.4
 88 15.9 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.146 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

Instrument :

MSVOA_D

ClientSampleId :

HD-4

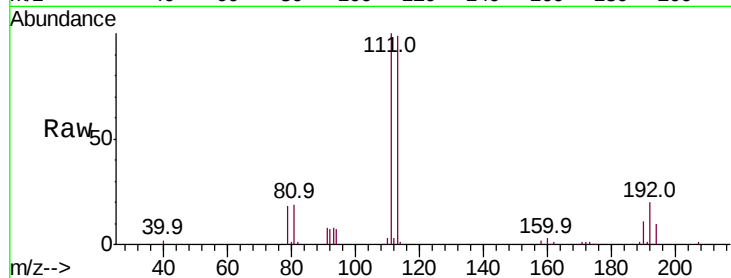
Tot Ion:113 Resp: 180250

Ion Ratio Lower Upper

113 100

111 102.3 83.0 124.4

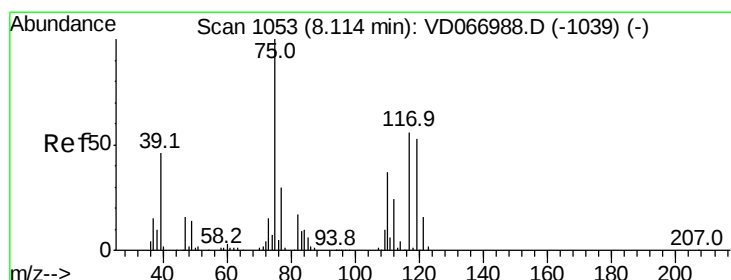
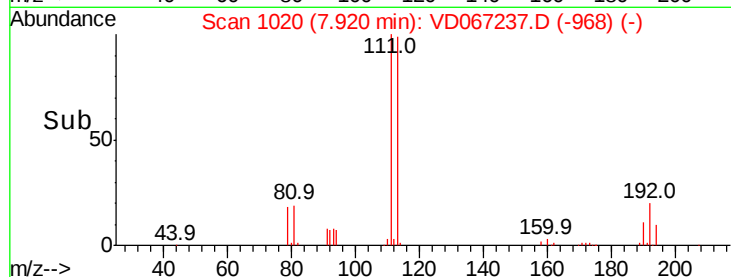
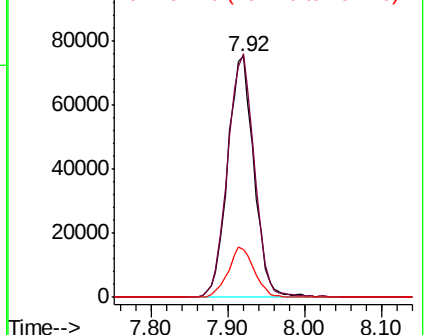
192 20.5 15.5 23.3



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: 4.598 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

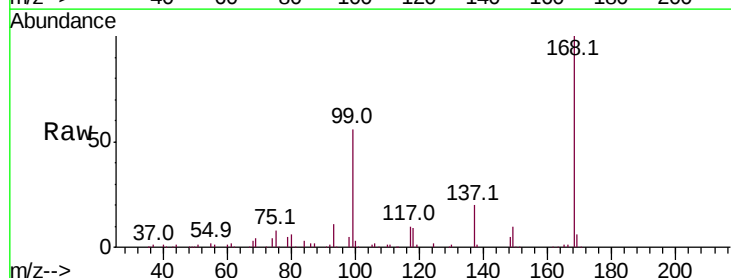
Tgt Ion: 75 Resp: 23532

Ion Ratio Lower Upper

75 100

110 11.9 18.4 55.0#

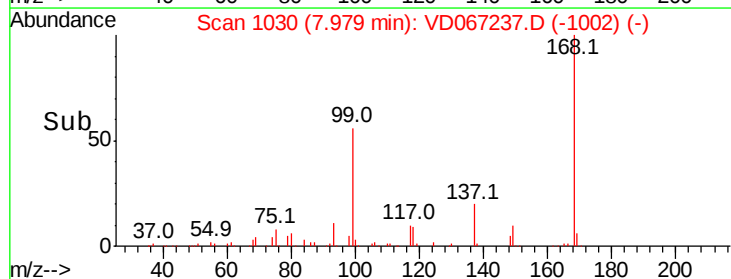
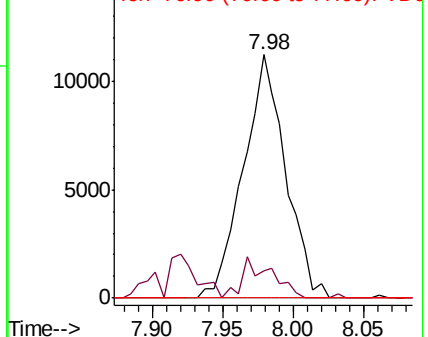
77 0.0 24.8 37.2#

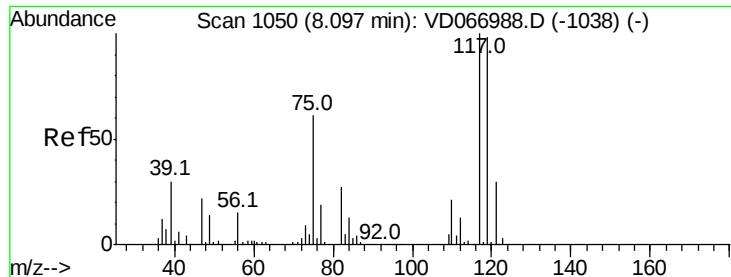


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

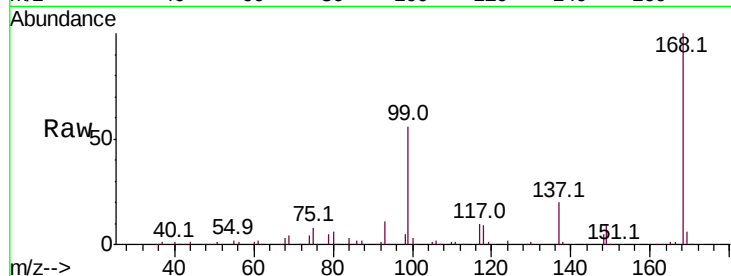




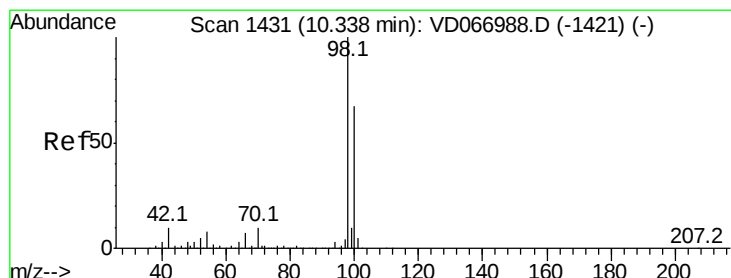
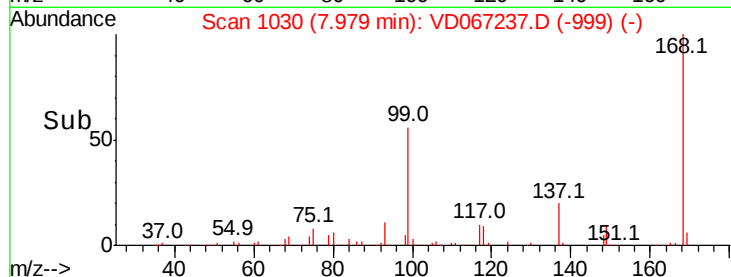
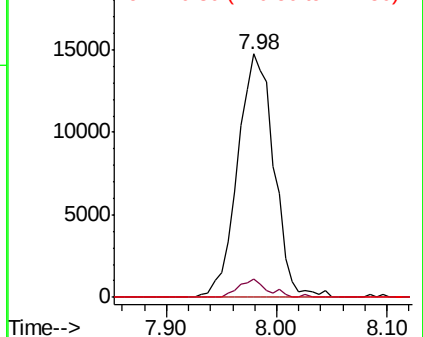
#38
Carbon Tetrachloride
Concen: 6.152 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD067237.D
Acq: 12 Oct 2020 17:15

Instrument :
MSVOA_D
ClientSampleId :
HD-4

Tot Ion:117 Resp: 34064
Ion Ratio Lower Upper
117 100
119 7.6 78.7 118.1#
121 0.0 24.2 36.2#

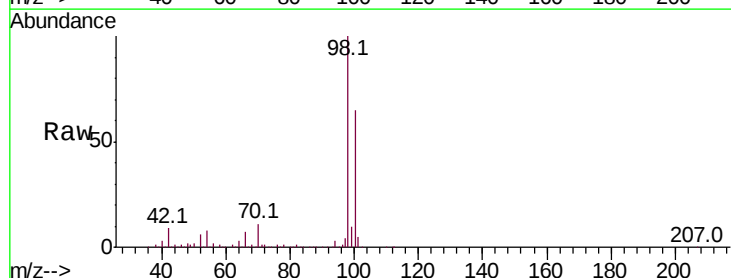


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

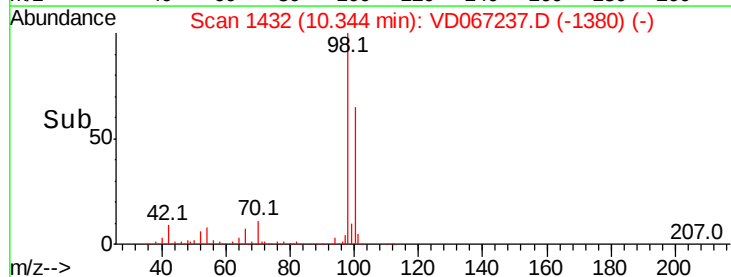
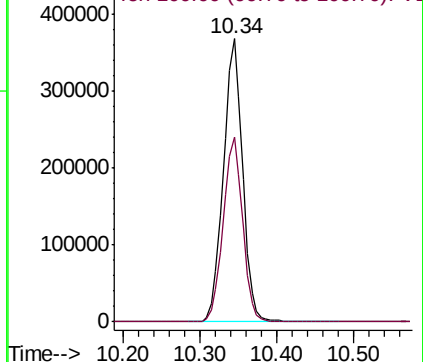


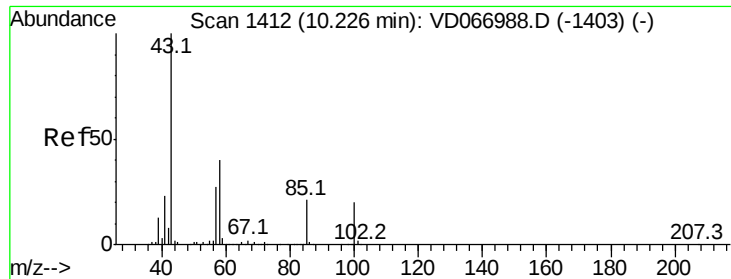
#50
Toluene-d8
Concen: 48.881 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD067237.D
Acq: 12 Oct 2020 17:15

Tgt Ion: 98 Resp: 640241
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2



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: 1.687 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

Instrument :

MSVOA_D

ClientSampleId :

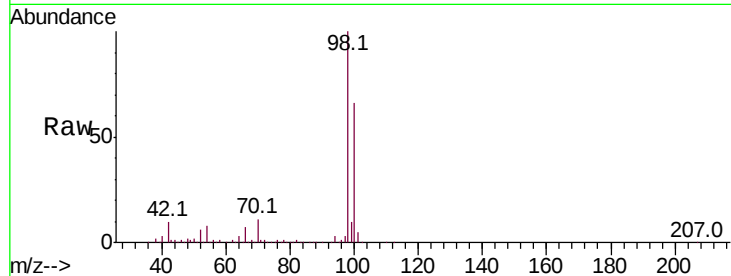
HD-4

Tot Ion: 43 Resp: 2744

Ion Ratio Lower Upper

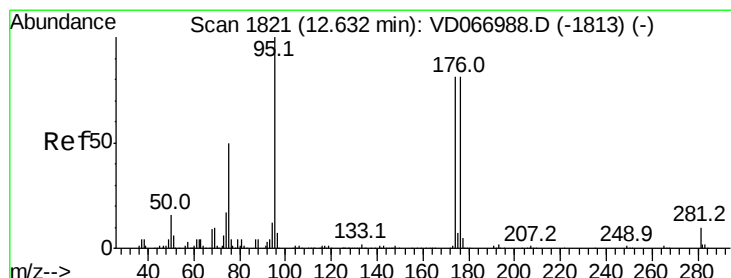
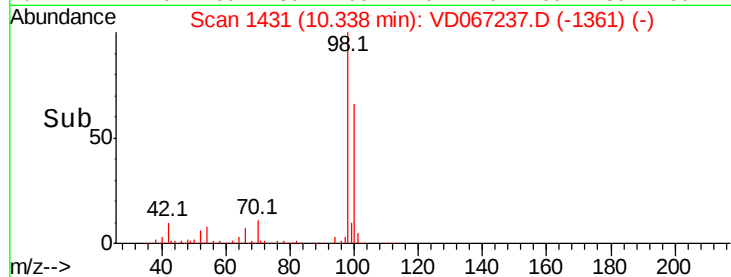
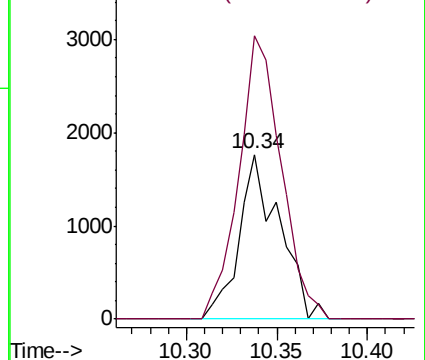
43 100

58 180.0 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 48.024 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

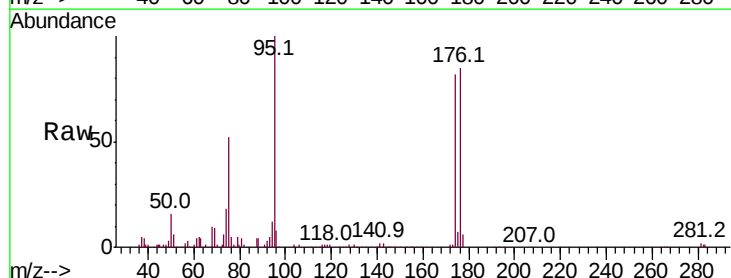
Tgt Ion: 95 Resp: 213535

Ion Ratio Lower Upper

95 100

174 86.7 0.0 167.6

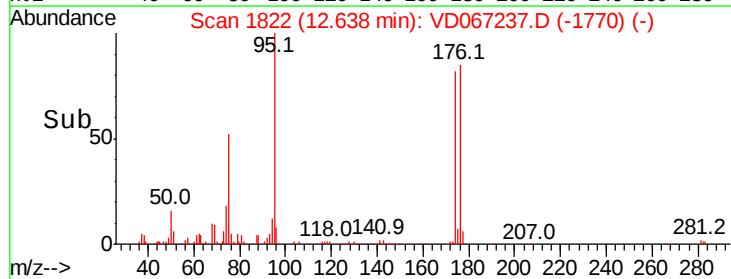
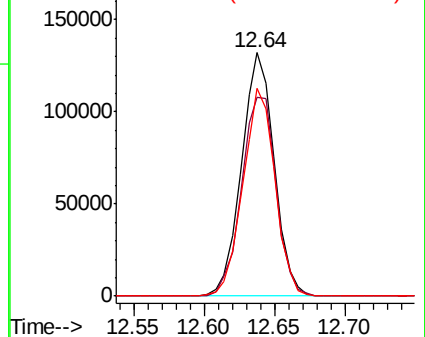
176 83.8 0.0 162.4

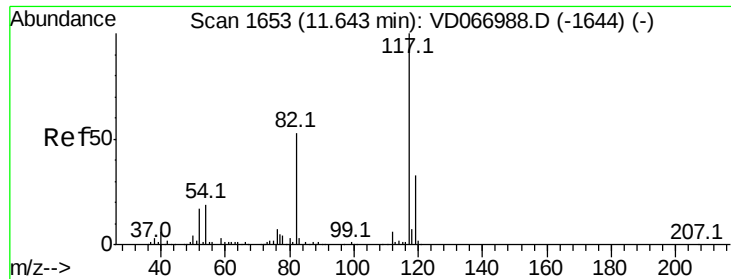


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

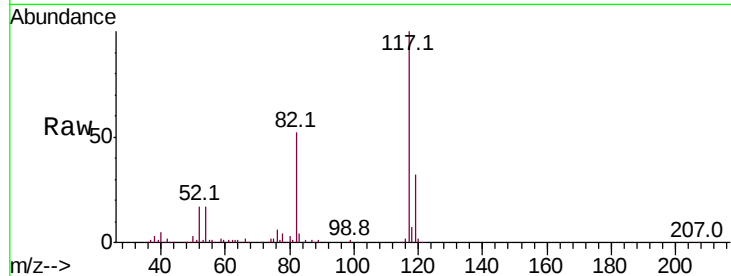




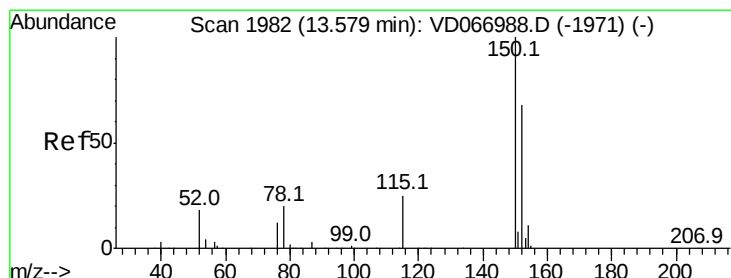
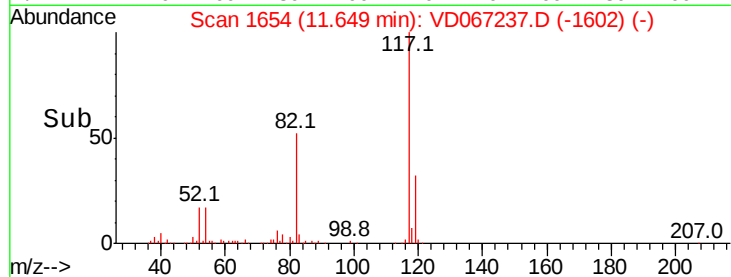
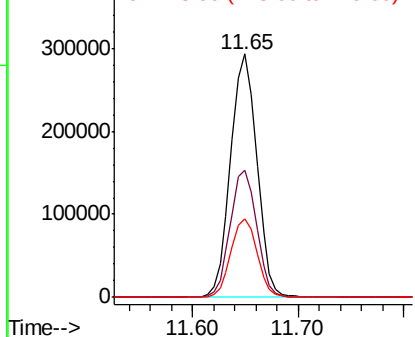
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD067237.D
Acq: 12 Oct 2020 17:15

Instrument :
MSVOA_D
ClientSampleId :
HD-4

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.6	63.8
119	32.4	26.3	39.5

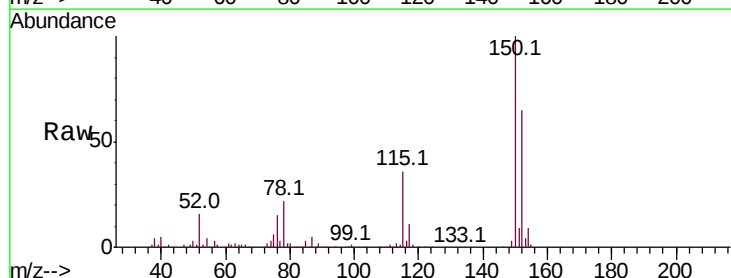


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

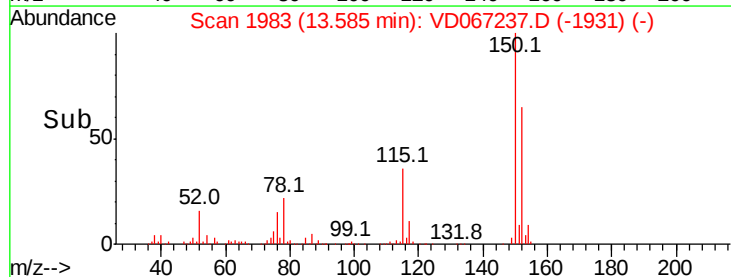
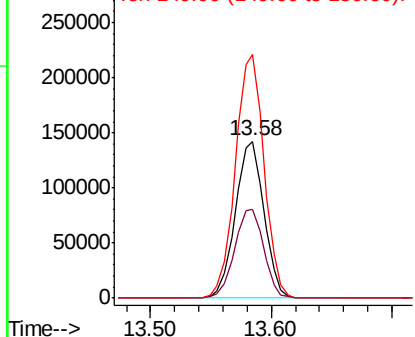


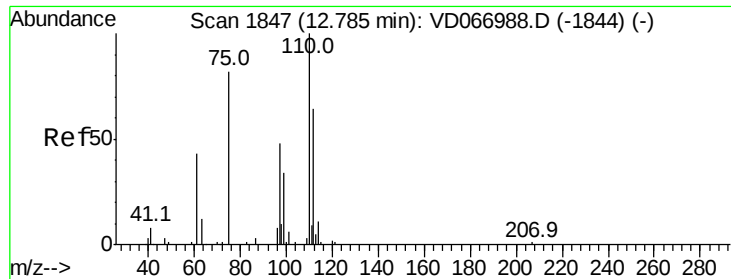
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD067237.D
Acq: 12 Oct 2020 17:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.6	88.8
150	155.0	0.0	344.8



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: 52.771 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

Instrument :

MSVOA_D

ClientSampleId :

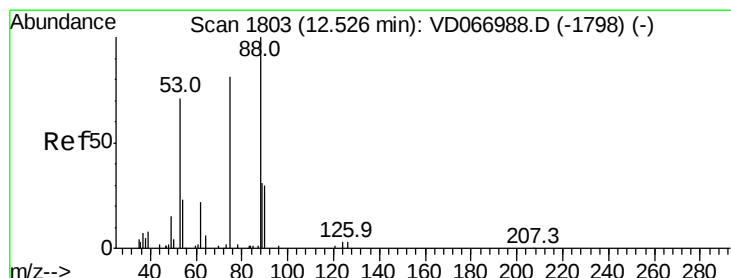
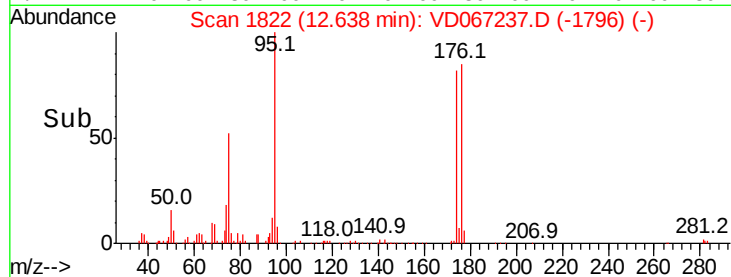
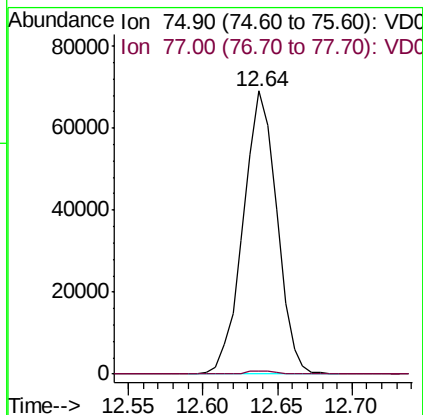
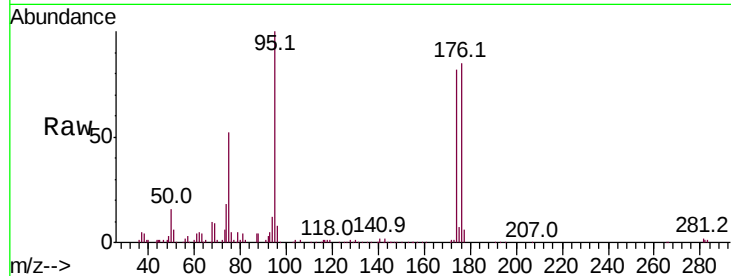
HD-4

Tot Ion: 75 Resp: 108087

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 131.566 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067237.D

Acq: 12 Oct 2020 17:15

Tgt Ion: 75 Resp: 108087

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.1 38.9 58.3#

