

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100920\
 Data File : VD067213.D
 Acq On : 09 Oct 2020 15:55
 Operator : VA/SY
 Sample : L4315-01
 Misc : 5.54G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

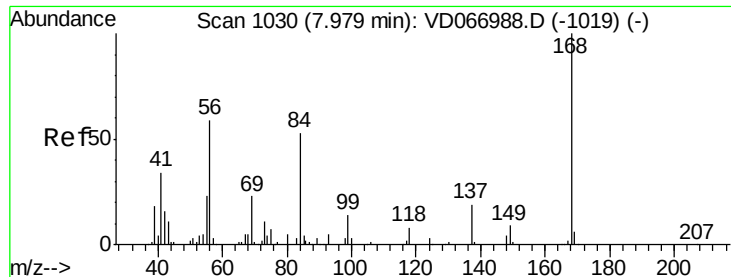
Instrument :
 MSVOA_D
 ClientSampleId :
 346

Quant Time: Oct 09 23:46:55 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	1565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	2244	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	1791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	191	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	594	39.41	ug/l	0.01
Spiked Amount 50.000			Recovery	=	78.82%	
35) Dibromofluoromethane	7.91	113	843	57.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.76%	
50) Toluene-d8	10.33	98	2247	41.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	83.94%	
62) 4-Bromofluorobenzene	12.63	95	571	31.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	62.84%	
Target Compounds						
					Qvalue	
6) Chloroethane	2.80	64	54	7.095	ug/l #	41
12) 1,1-Dichloroethene	3.85	96	69	4.677	ug/l #	1
14) Allyl chloride	4.74	41	70	3.652	ug/l #	22
20) Methylene Chloride	4.96	84	57	Below Cal	#	10
27) cis-1,2-Dichloroethene	7.22	96	112	6.246	ug/l #	1
38) Carbon Tetrachloride	8.00	117	58	2.563	ug/l #	11
43) Isopropyl Acetate	8.47	43	77	5.768	ug/l #	48
51) 4-Methyl-2-Pentanone	10.34	43	55	8.272	ug/l #	33
76) 1,2,3-Trichloropropane	12.64	75	187	112.402	ug/l #	100
78) n-propylbenzene	12.91	91	86	5.611	ug/l #	52
79) 2-Chlorotoluene	12.91	91	86	9.807	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.64	75	187	280.232	ug/l #	12
82) 4-Chlorotoluene	12.91	91	86	9.217	ug/l #	40
88) 1,4-Dichlorobenzene	13.87	146	58	9.510	ug/l #	24
91) 1,2-Dichlorobenzene	13.87	146	58	10.888	ug/l #	24

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

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Misc : 5.54G/5.00ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

Instrument :

MSVOA_D

ClientSampled :

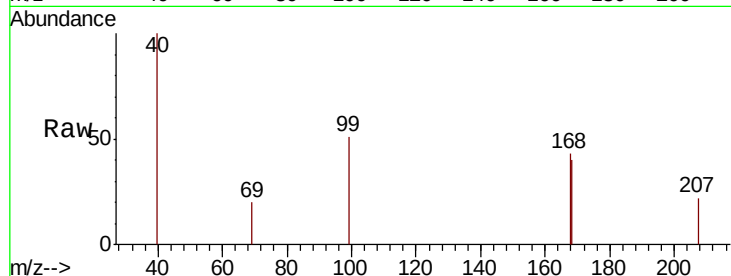
346

Tot Ion:168 Resp: 1565

Ion Ratio Lower Upper

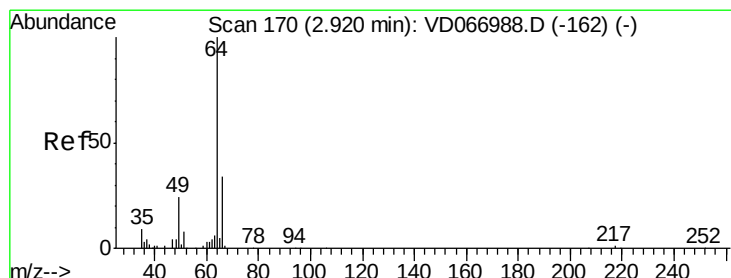
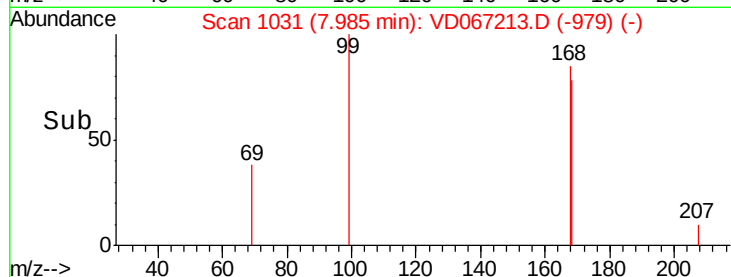
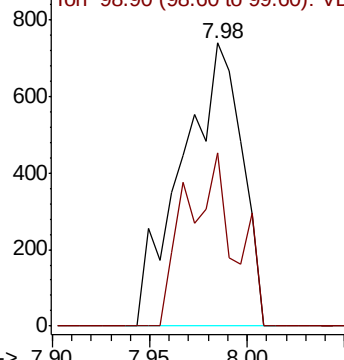
168 100

99 61.2 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#6

Chloroethane

Concen: 7.095 ug/l

RT: 2.80 min Scan# 149

Delta R.T. -0.12 min

Lab File: VD067213.D

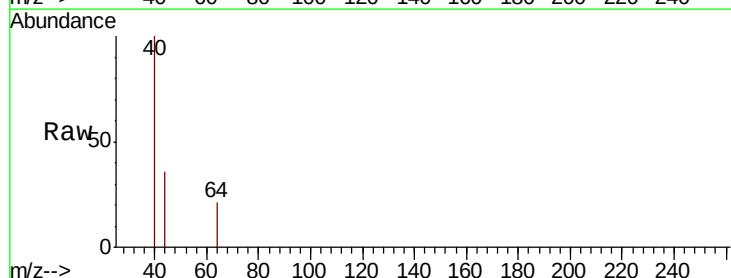
Acq: 09 Oct 2020 15:55

Tgt Ion: 64 Resp: 54

Ion Ratio Lower Upper

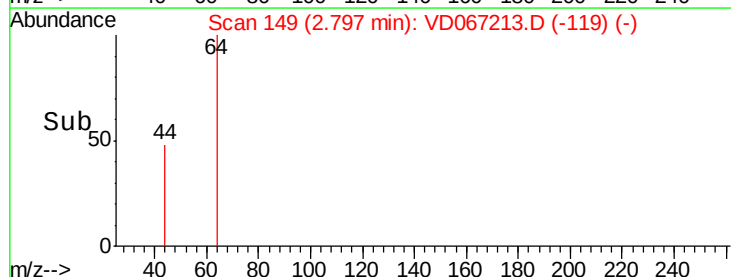
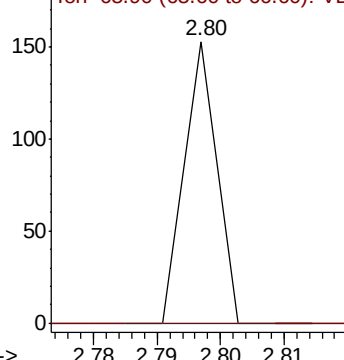
64 100

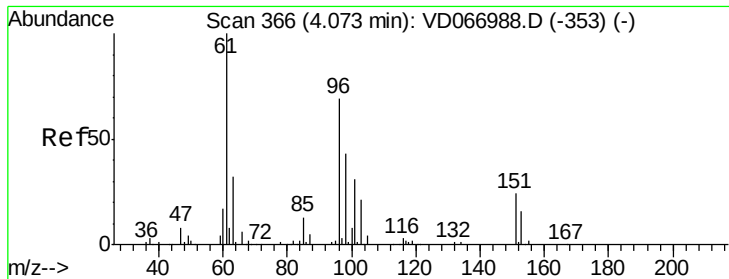
66 0.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

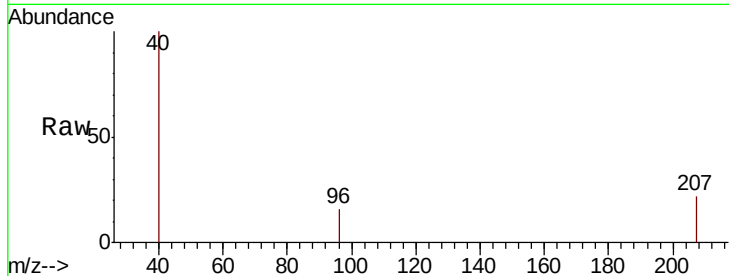




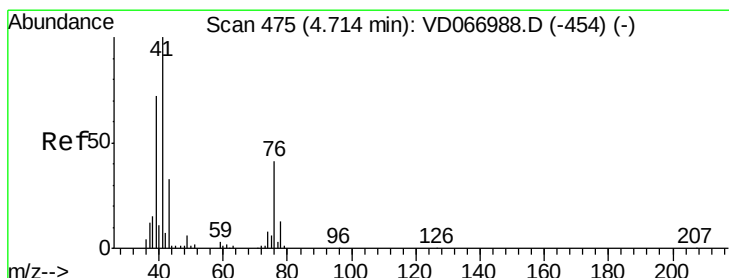
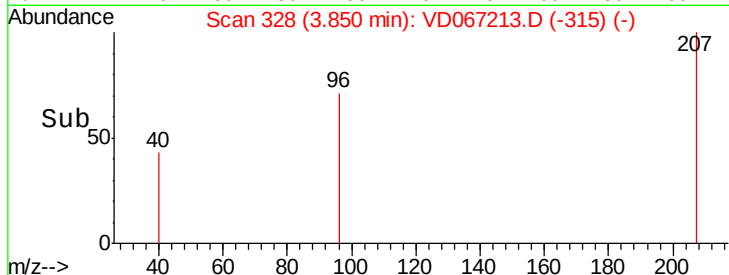
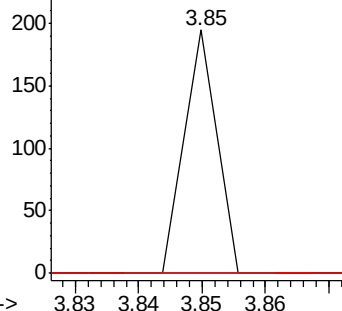
#12
 1,1-Dichloroethene
 Concen: 4.677 ug/l
 RT: 3.85 min Scan# 328
 Delta R.T. -0.22 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

Instrument :
 MSVOA_D
 ClientSampleID :
 346

Tot Ion: 96 Resp: 69
 Ion Ratio Lower Upper
 96 100
 61 0.0 116.4 174.6#
 98 0.0 49.9 74.9#

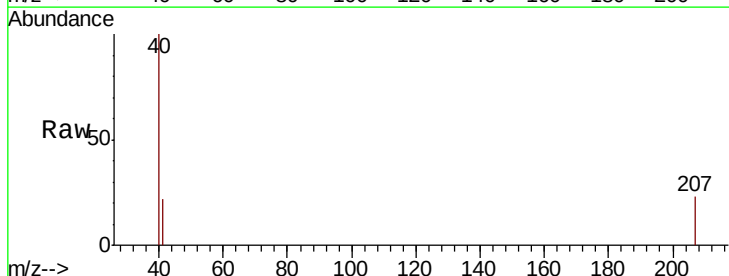


Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC

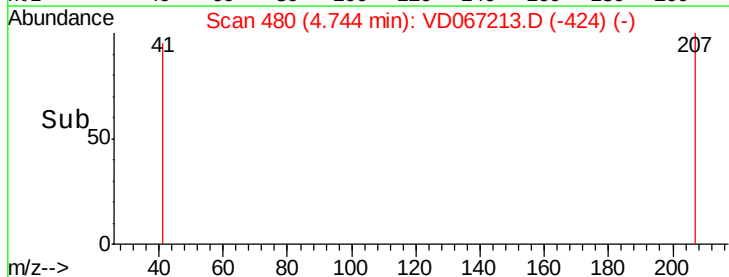
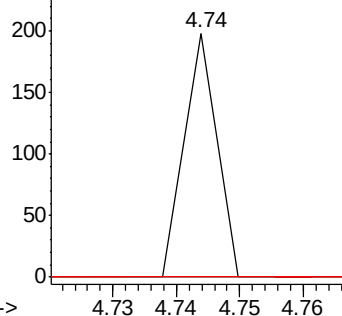


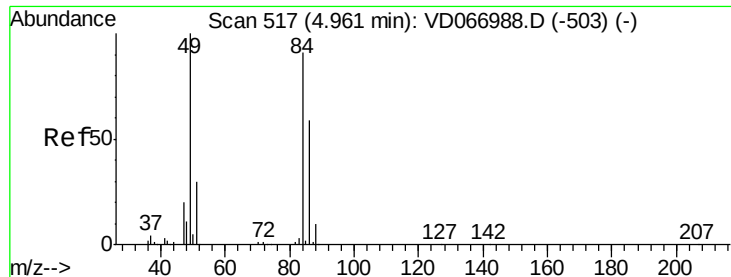
#14
 Allyl chloride
 Concen: 3.652 ug/l
 RT: 4.74 min Scan# 480
 Delta R.T. 0.03 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

Tgt Ion: 41 Resp: 70
 Ion Ratio Lower Upper
 41 100
 39 0.0 56.2 84.2#
 76 0.0 34.2 51.2#



Abundance Ion 41.00 (40.70 to 41.70): VDC
 Ion 39.00 (38.70 to 39.70): VDC
 Ion 75.90 (75.60 to 76.60): VDC





#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

Instrument :

MSVOA_D

ClientSampleId :

346

Tot Ion: 84 Resp: 57

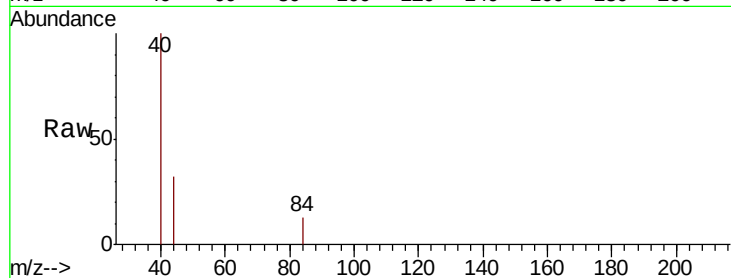
Ion Ratio Lower Upper

84 100

49 0.0 88.2 132.2#

51 0.0 26.6 39.8#

86 0.0 52.1 78.1#

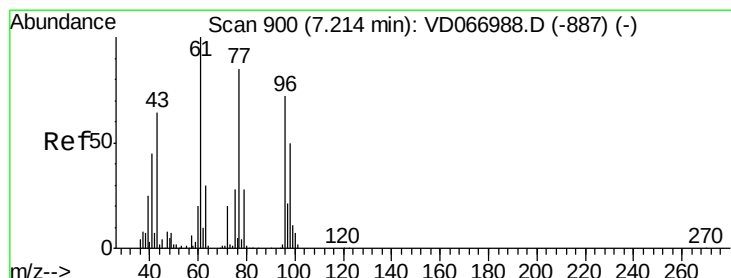
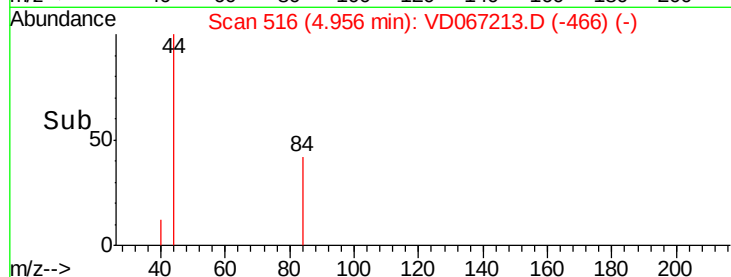
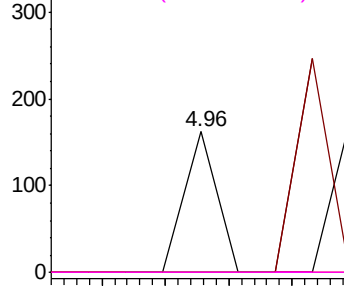


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#27

cis-1,2-Dichloroethene

Concen: 6.246 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

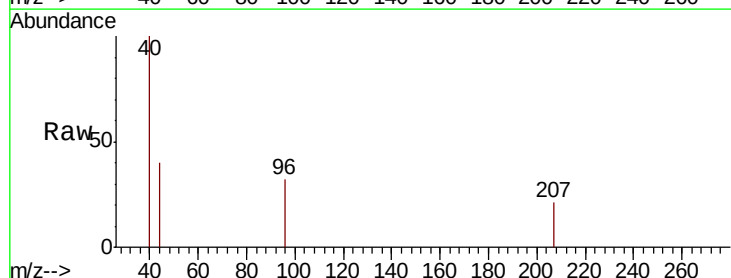
Tgt Ion: 96 Resp: 112

Ion Ratio Lower Upper

96 100

61 0.0 0.0 269.2

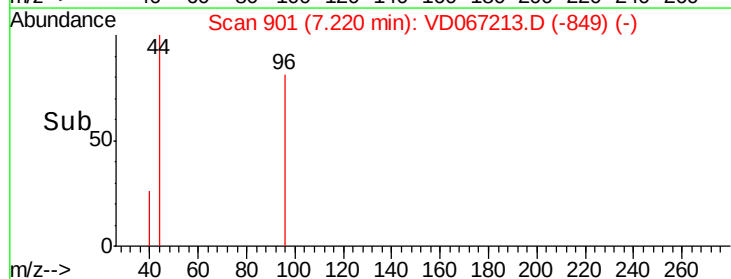
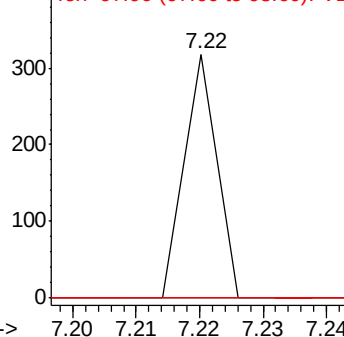
98 0.0 0.0 129.4

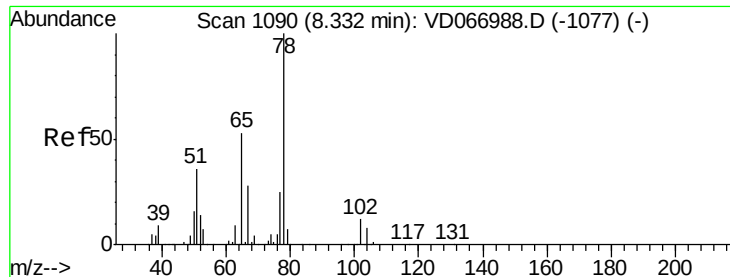


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

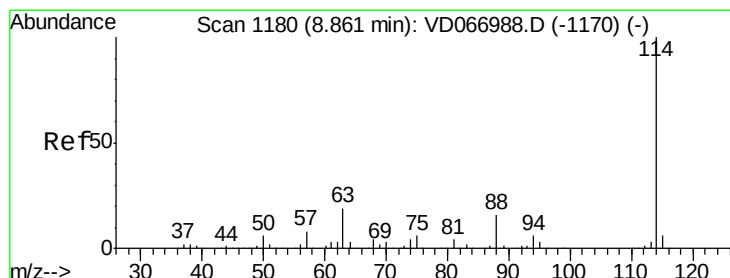
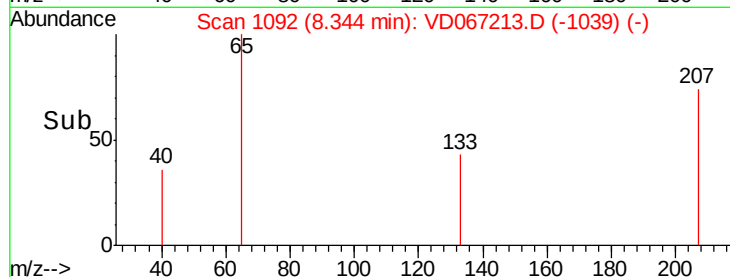
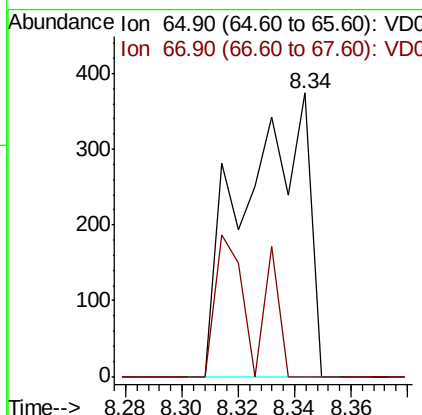
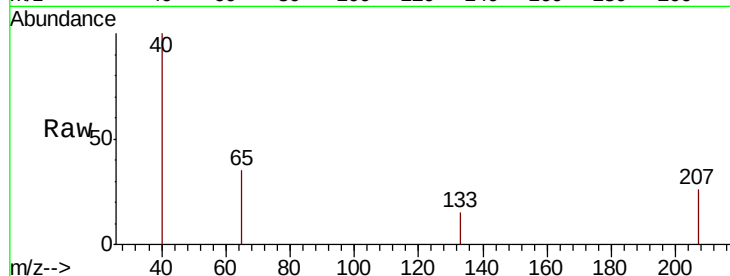




#33
 1,2-Dichloroethane-d4
 Concen: 39.406 ug/l
 RT: 8.34 min Scan# 1092
 Delta R.T. 0.01 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

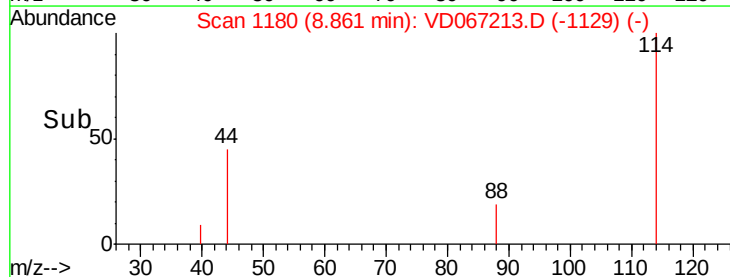
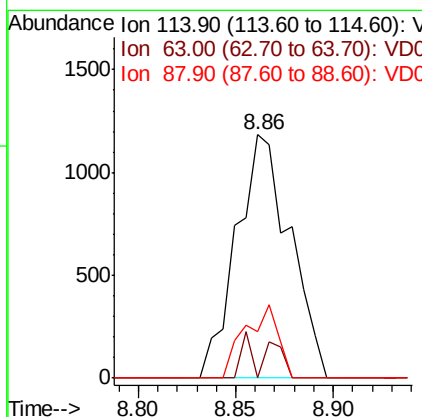
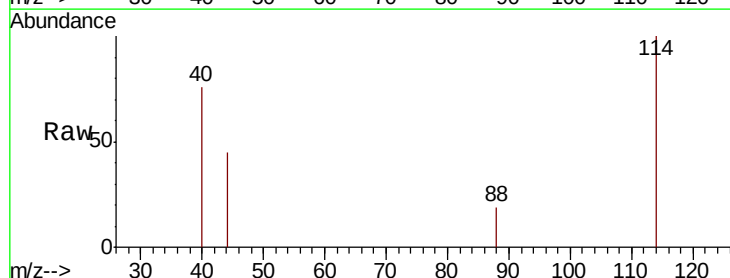
Instrument :
 MSVOA_D
 ClientSampleId :
 346

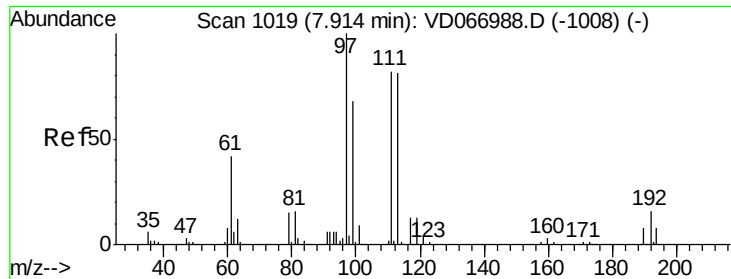
Tot Ion: 65 Resp: 594
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

Tgt Ion: 114 Resp: 2244
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 38.4
 88 18.9 0.0 31.2

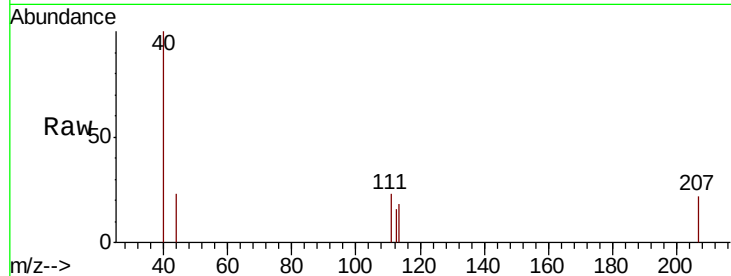




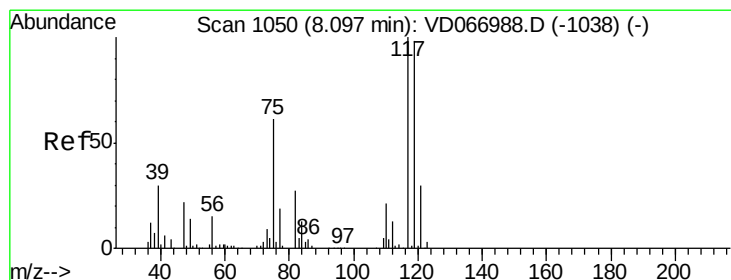
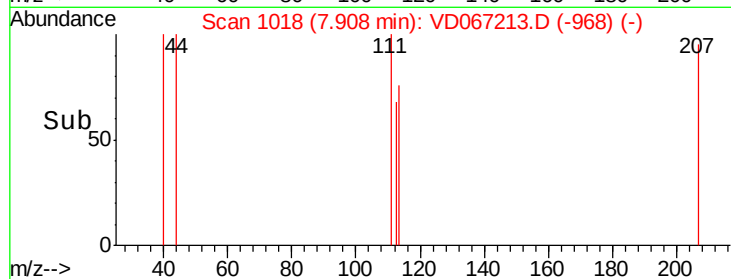
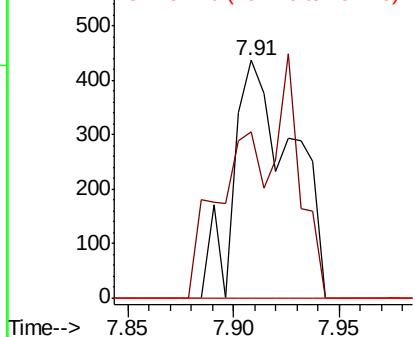
#35
 Dibromofluoromethane
 Concen: 57.382 ug/l
 RT: 7.91 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

Instrument :
 MSVOA_D
 ClientSampleId :
 346

Tot Ion:113 Resp: 843
 Ion Ratio Lower Upper
 113 100
 111 55.4 83.0 124.4#
 192 0.0 15.5 23.3#

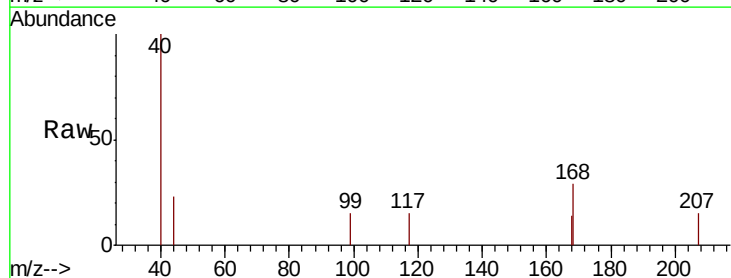


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

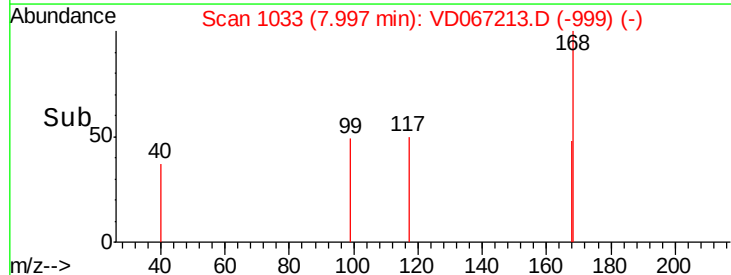
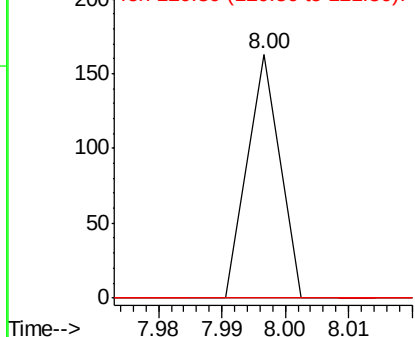


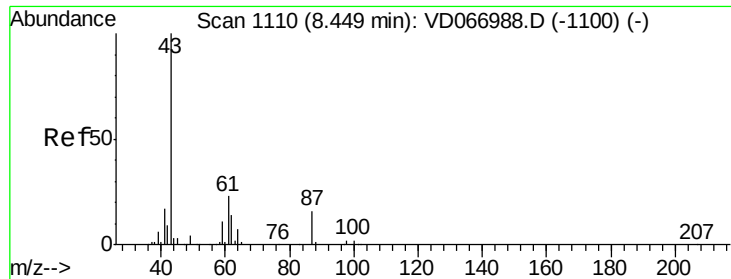
#38
 Carbon Tetrachloride
 Concen: 2.563 ug/l
 RT: 8.00 min Scan# 1033
 Delta R.T. -0.10 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

Tgt Ion:117 Resp: 58
 Ion Ratio Lower Upper
 117 100
 119 0.0 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





#43

Isopropyl Acetate

Concen: 5.768 ug/l

RT: 8.47 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

Instrument :

MSVOA_D

ClientSampleId :

346

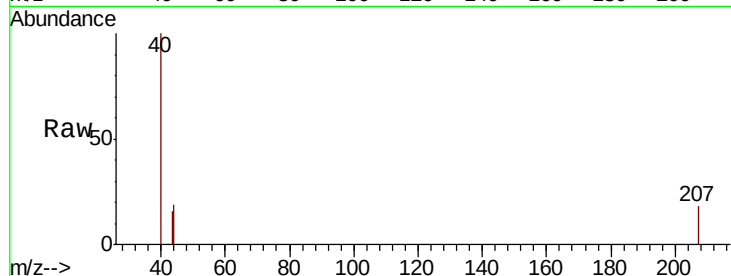
Tot Ion: 43 Resp: 77

Ion Ratio Lower Upper

43 100

61 0.0 27.1 40.7#

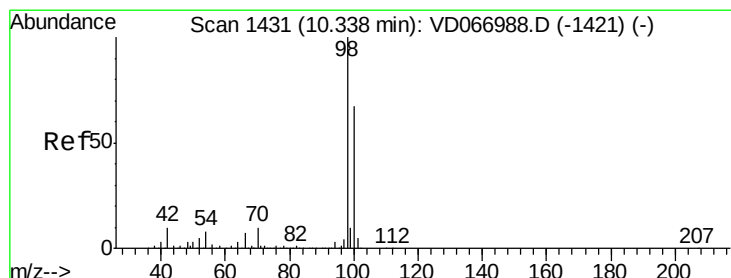
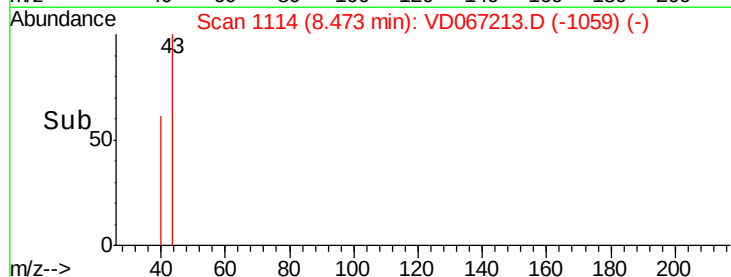
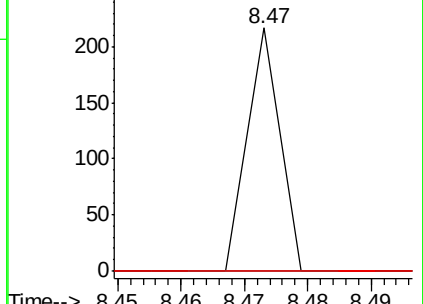
87 0.0 12.3 18.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: 41.975 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VD067213.D

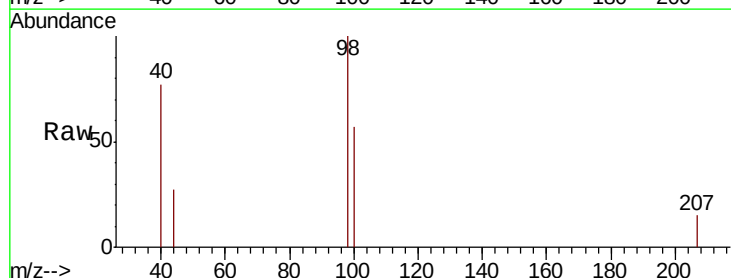
Acq: 09 Oct 2020 15:55

Tgt Ion: 98 Resp: 2247

Ion Ratio Lower Upper

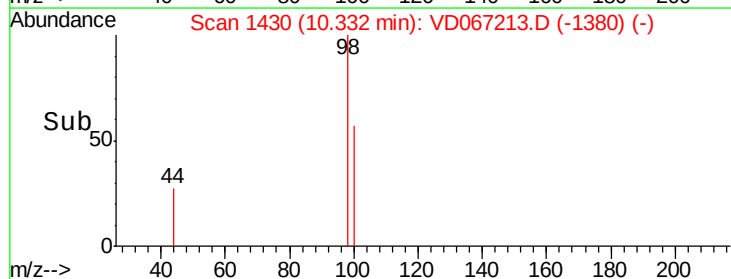
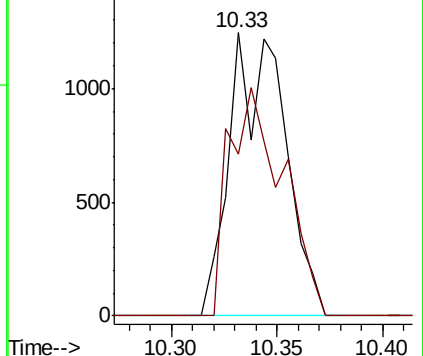
98 100

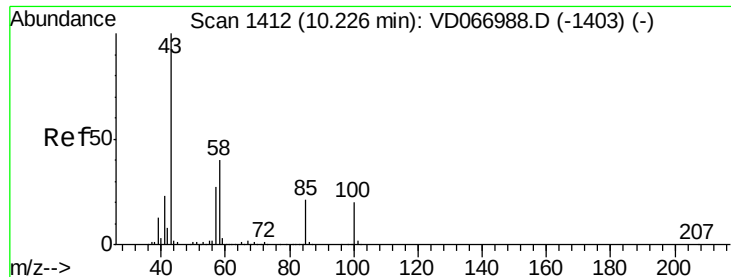
100 80.1 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 8.272 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

Instrument :

MSVOA_D

ClientSampleId :

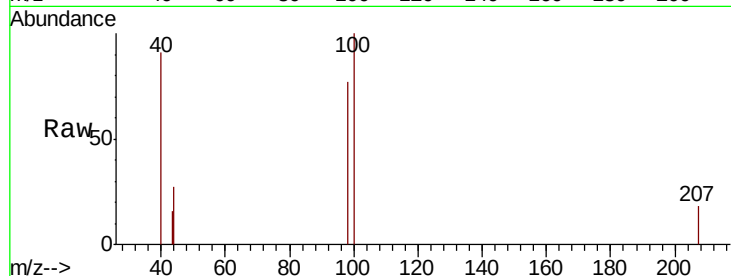
346

Tot Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

58 0.0 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.34

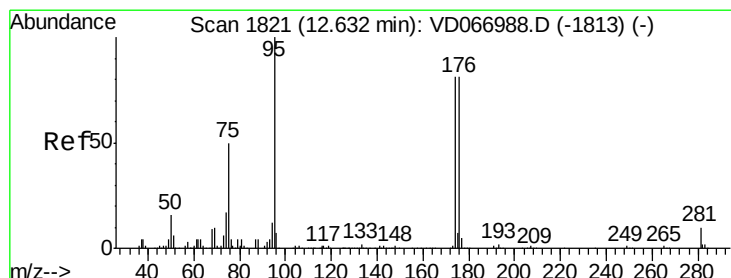
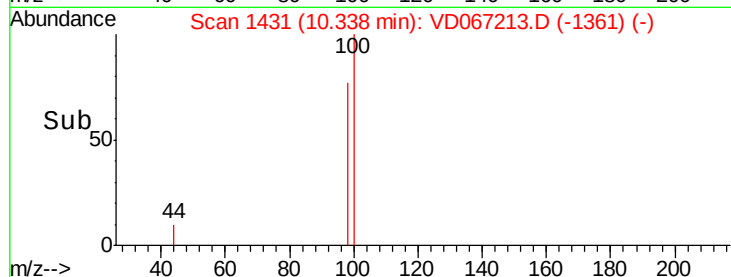
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 31.420 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

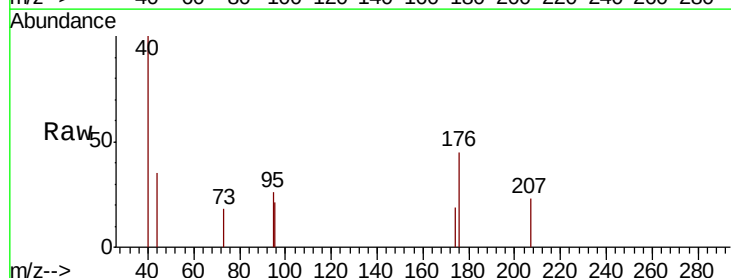
Tgt Ion: 95 Resp: 571

Ion Ratio Lower Upper

95 100

174 0.0 0.0 167.6

176 69.9 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

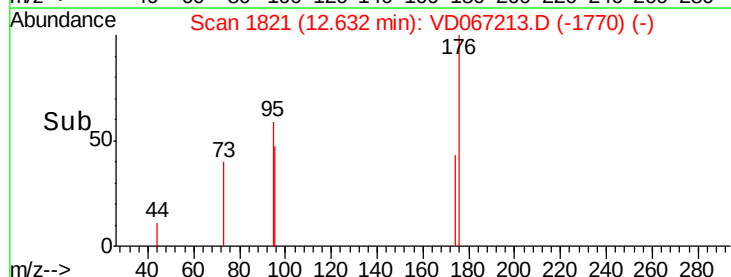
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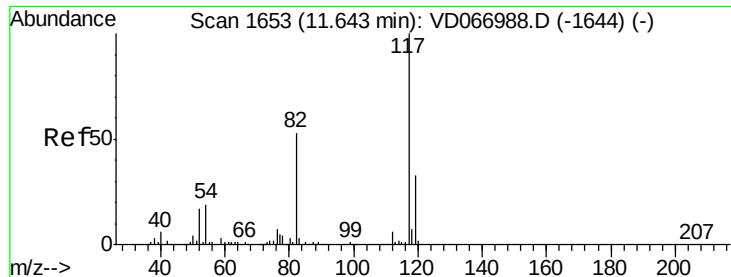
400

200

0

Time-->

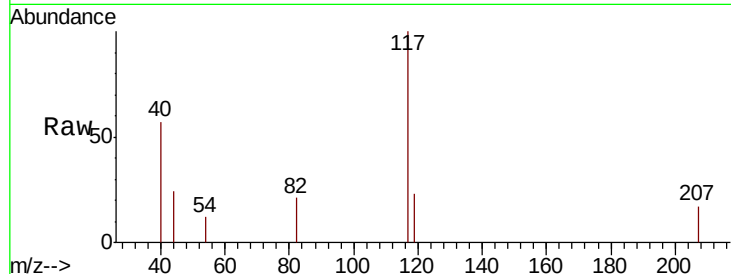




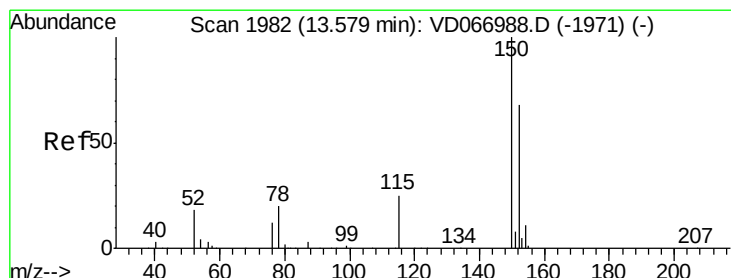
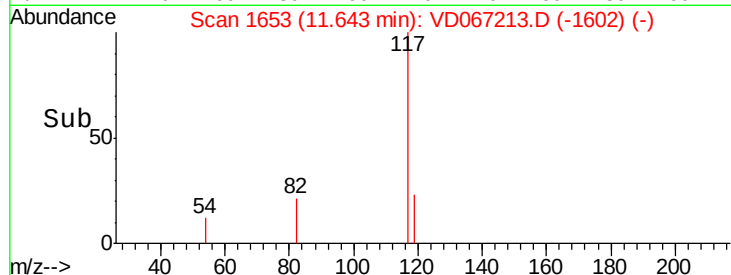
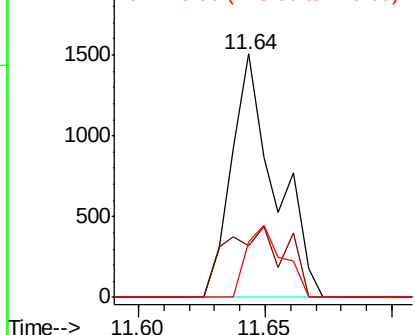
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067213.D
Acq: 09 Oct 2020 15:55

Instrument :
MSVOA_D
ClientSampleId :
346

Tot Ion:117 Resp: 1791
Ion Ratio Lower Upper
117 100
82 21.2 42.6 63.8#
119 22.6 26.3 39.5#

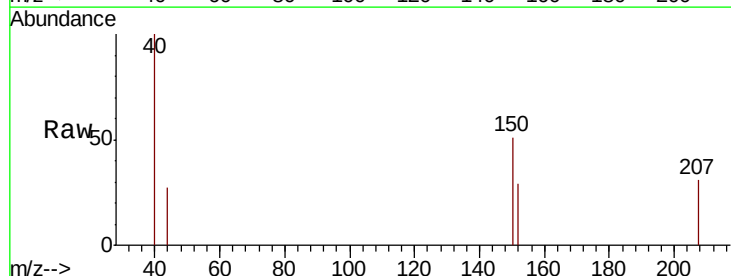


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

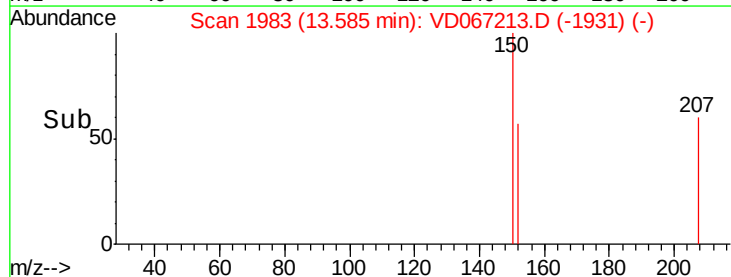
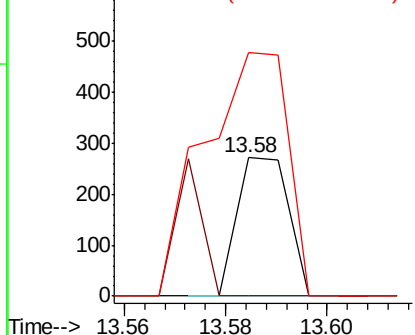


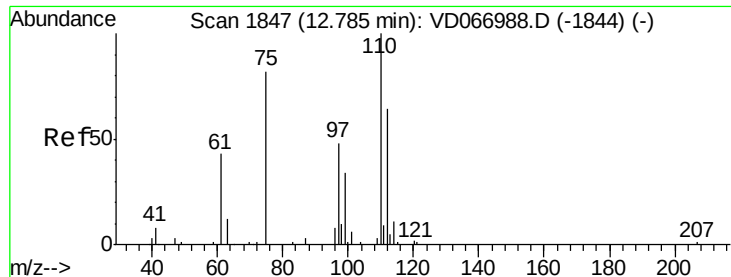
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD067213.D
Acq: 09 Oct 2020 15:55

Tgt Ion:152 Resp: 191
Ion Ratio Lower Upper
152 100
115 49.7 29.6 88.8
150 286.9 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: 112.402 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.14 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

Instrument :

MSVOA_D

ClientSampleId :

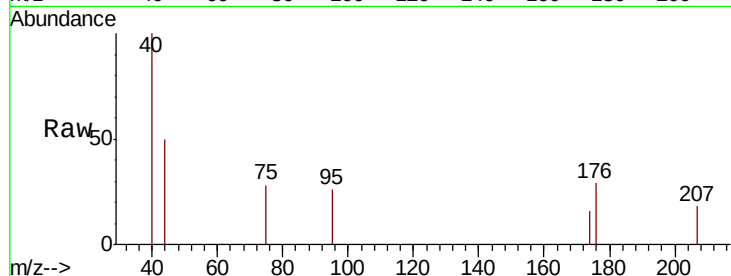
346

Tot Ion: 75 Resp: 187

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

250

200

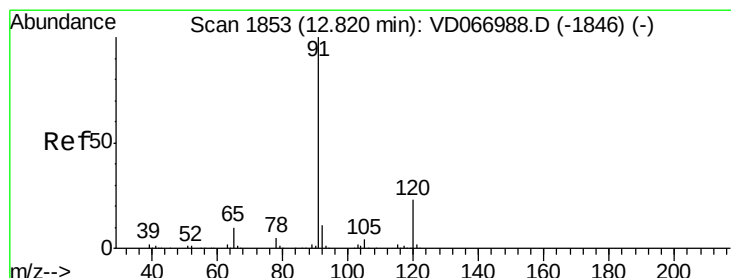
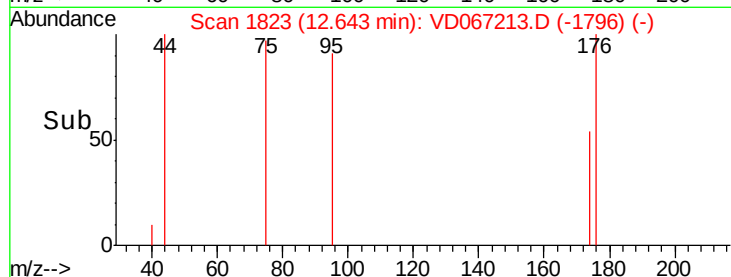
150

100

50

0

Time--> 12.62 12.64 12.66



#78

n-propylbenzene

Concen: 5.611 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.09 min

Lab File: VD067213.D

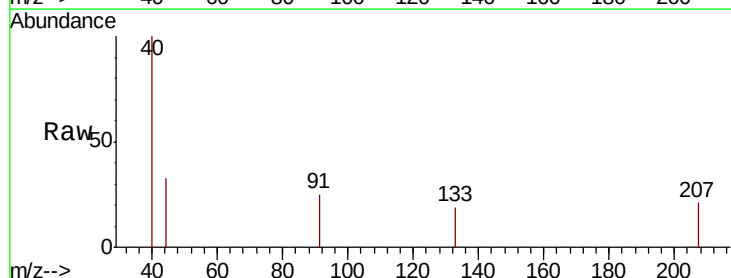
Acq: 09 Oct 2020 15:55

Tgt Ion: 91 Resp: 86

Ion Ratio Lower Upper

91 100

120 0.0 11.6 34.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): VDC

12.91

250

200

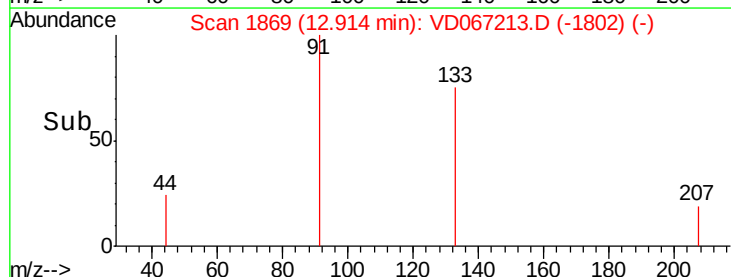
150

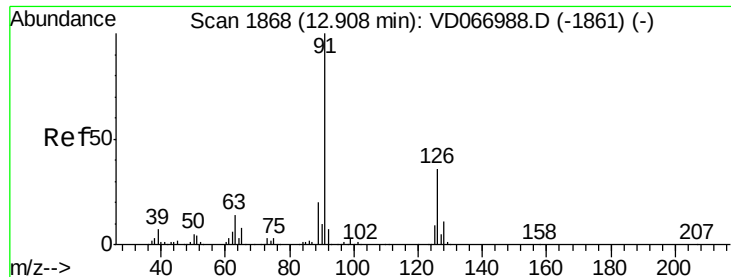
100

50

0

Time--> 12.90 12.92

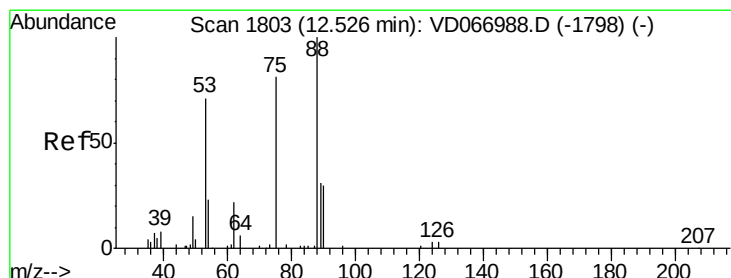
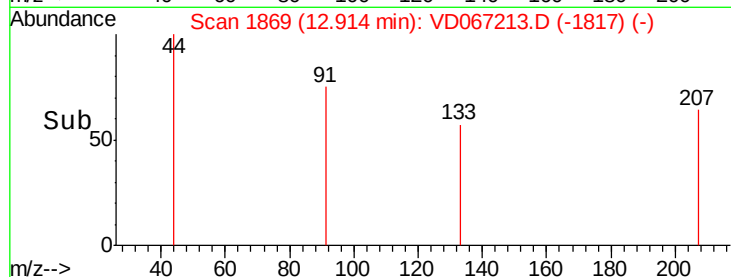
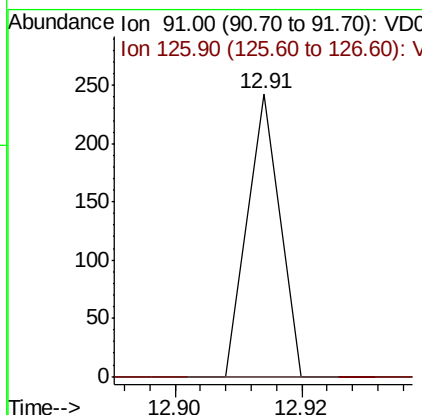
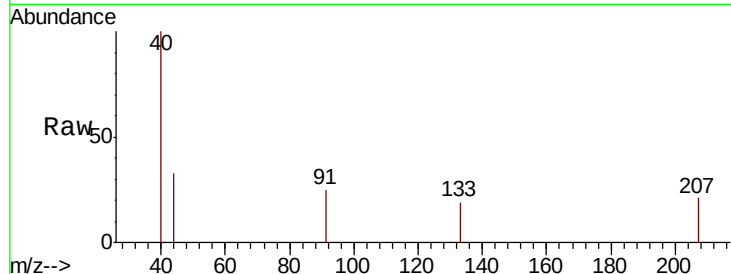




#79
 2-Chlorotoluene
 Concen: 9.807 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. 0.01 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

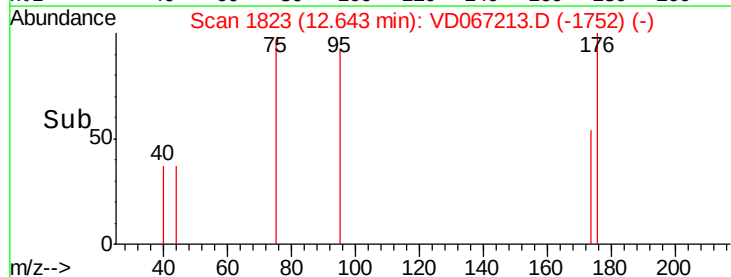
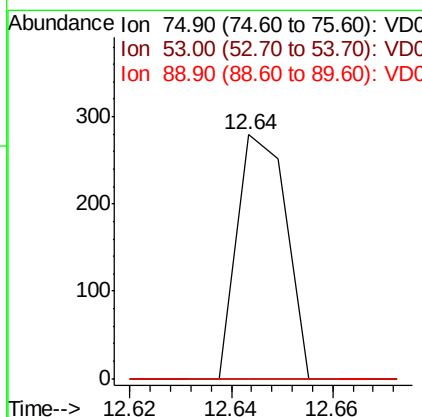
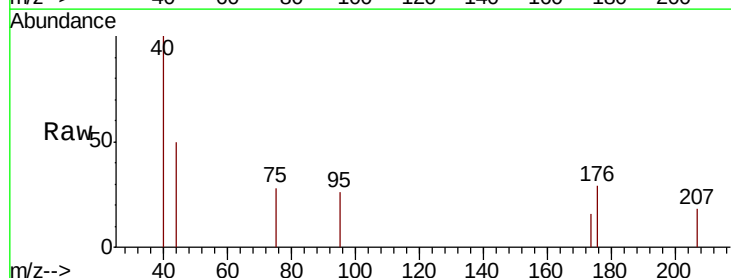
Instrument :
 MSVOA_D
 ClientSampled :
 346

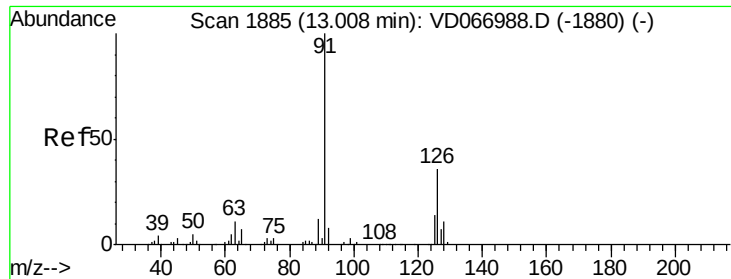
Tot Ion: 91 Resp: 86
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.5 52.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 280.232 ug/l
 RT: 12.64 min Scan# 1823
 Delta R.T. 0.12 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

Tgt Ion: 75 Resp: 187
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.8 110.6#
 89 0.0 38.9 58.3#

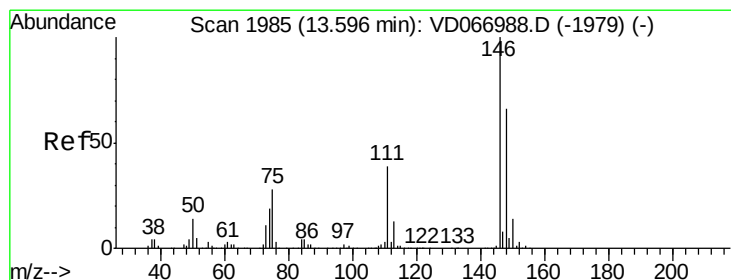
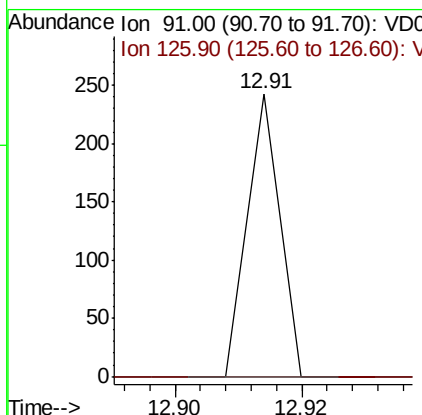
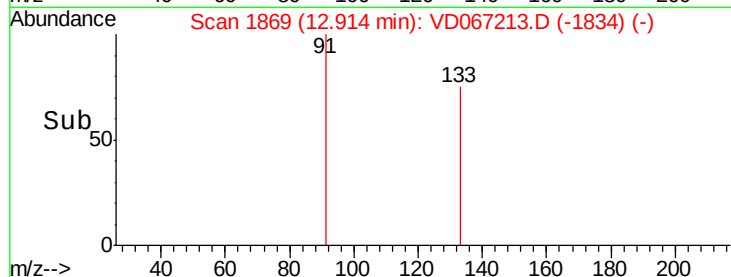
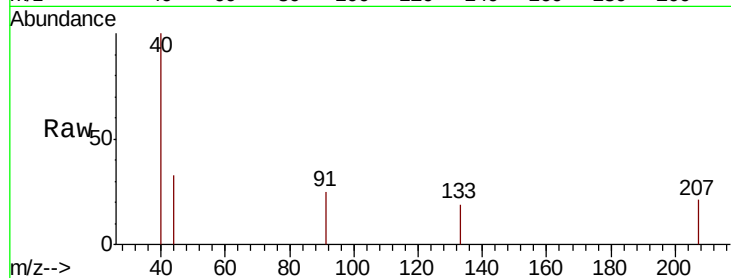




#82
 4-Chlorotoluene
 Concen: 9.217 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. -0.09 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

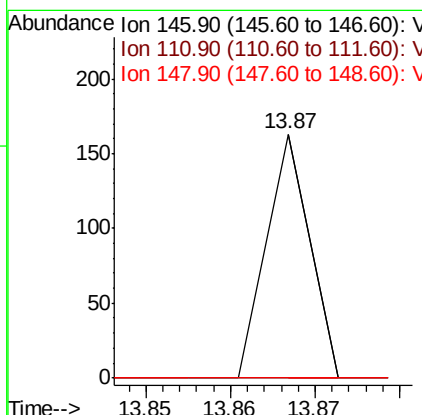
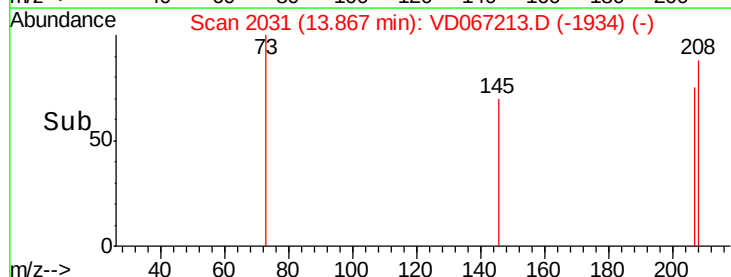
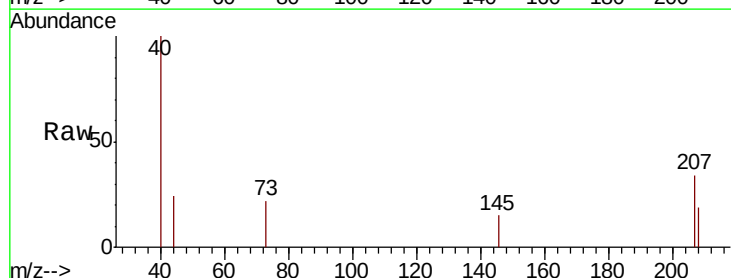
Instrument :
 MSVOA_D
 ClientSampled :
 346

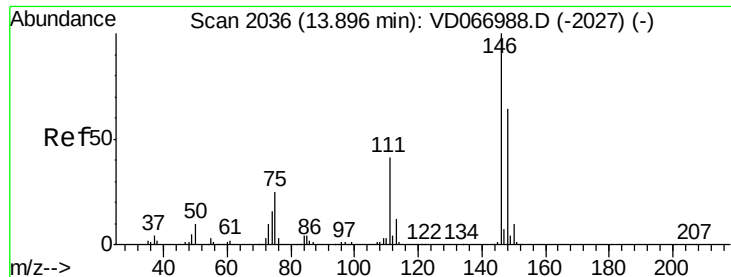
Tot Ion: 91 Resp: 86
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.5 52.5#



#88
 1,4-Dichlorobenzene
 Concen: 9.510 ug/l
 RT: 13.87 min Scan# 2031
 Delta R.T. 0.27 min
 Lab File: VD067213.D
 Acq: 09 Oct 2020 15:55

Tgt Ion: 146 Resp: 58
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.6 58.7#
 148 0.0 32.6 97.7#





#91

1,2-Dichlorobenzene

Concen: 10.888 ug/l

RT: 13.87 min Scan# 2031

Delta R.T. -0.03 min

Lab File: VD067213.D

Acq: 09 Oct 2020 15:55

Instrument :

MSVOA_D

ClientSampleId :

346

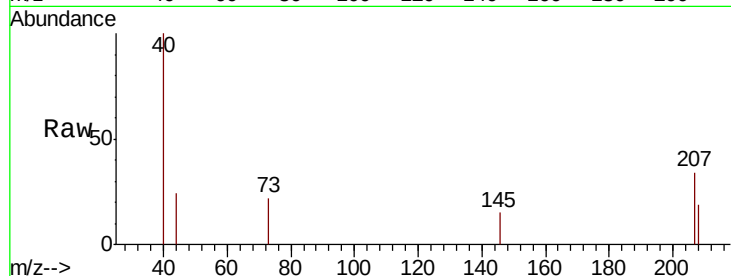
Tot Ion:146 Resp: 58

Ion Ratio Lower Upper

146 100

111 0.0 20.9 62.7#

148 0.0 32.3 96.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

