

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD030321\
 Data File : VD068511.D
 Acq On : 03 Mar 2021 14:25
 Operator : VA/SY
 Sample : M1540-01
 Misc : 5.95G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 04 00:03:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D022621S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 26 14:04:14 2021
 Response via : Initial Calibration

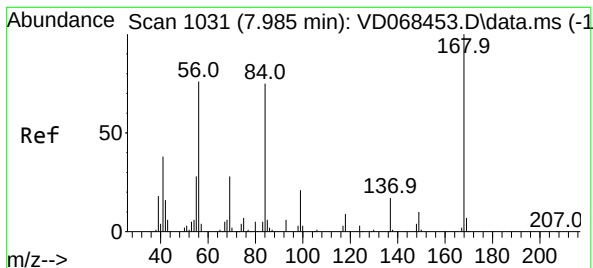
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.985	168	115769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	205455	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	215508	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	110566	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	80522	69.61	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 139.22%			
35) Dibromofluoromethane	7.920	113	72109	58.26	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 116.52%			
50) Toluene-d8	10.344	98	259279	52.59	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 105.18%			
62) 4-Bromofluorobenzene	12.632	95	103290	65.01	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 130.02%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.309	142	123	2.70	ug/l #	38
16) Acetone	4.156	43	809	4.40	ug/l #	81
20) Methylene Chloride	4.973	84	566	Below Cal	#	35
31) Cyclohexane	7.985	56	2255	1.07	ug/l #	7
36) 1,1-Dichloropropene	7.979	75	8997	4.61	ug/l #	43
38) Carbon Tetrachloride	7.979	117	12270	6.69	ug/l #	15
59) 2-Hexanone	10.955	43	935	2.25	ug/l #	19
67) Ethyl Benzene	11.744	91	15374	1.96	ug/l	98
68) m/p-Xylenes	11.855	106	13987	4.70	ug/l	99
69) o-Xylene	12.179	106	23558	8.60	ug/l	93
71) Bromoform	12.632	173	860	1.11	ug/l #	1
74) N-amyl acetate	12.267	43	10147	7.26	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	12.785	83	5059	3.59	ug/l #	26
76) 1,2,3-Trichloropropane	12.632	75	50467	51.42	ug/l #	100
78) n-propylbenzene	12.820	91	20554	2.10	ug/l	99
79) 2-Chlorotoluene	12.914	91	7568	1.39	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.955	105	114536	17.04	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.632	75	50467	119.98	ug/l #	13
82) 4-Chlorotoluene	12.955	91	11794	2.06	ug/l #	40
83) tert-Butylbenzene	13.267	119	17592	3.07	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.267	105	138164	20.53	ug/l	98
85) sec-Butylbenzene	13.402	105	19765	2.45	ug/l	90
86) p-Isopropyltoluene	13.514	119	35998	4.91	ug/l	98
89) n-Butylbenzene	13.838	91	24038	3.40	ug/l #	68
90) Hexachloroethane	14.114	117	22161	15.20	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.520	75	1024	4.12	ug/l #	23
95) Naphthalene	15.396	128	61192	14.11	ug/l #	95

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

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Quant Title : SW846 8260
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Response via : Initial Calibration

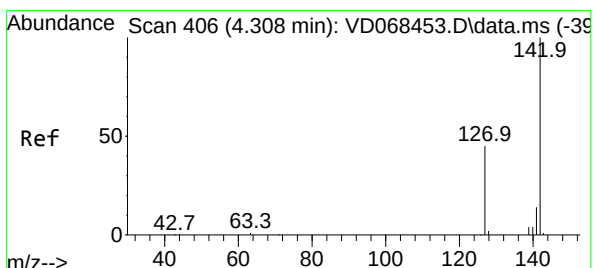
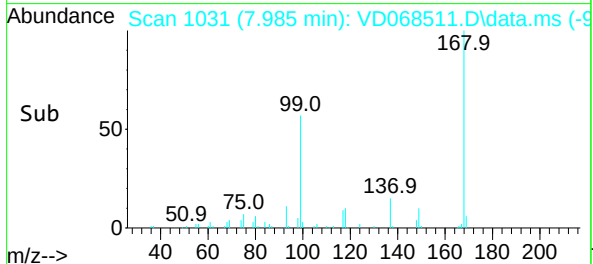
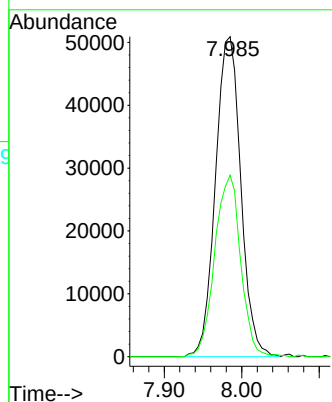
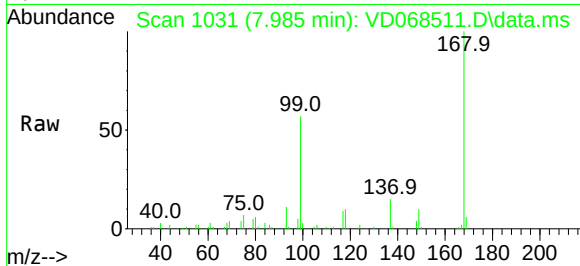




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

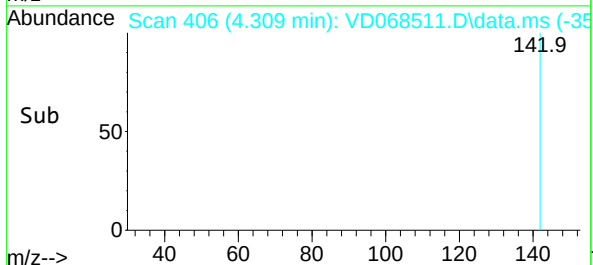
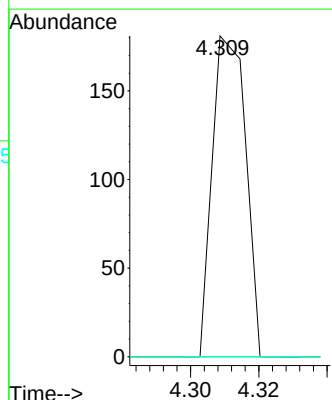
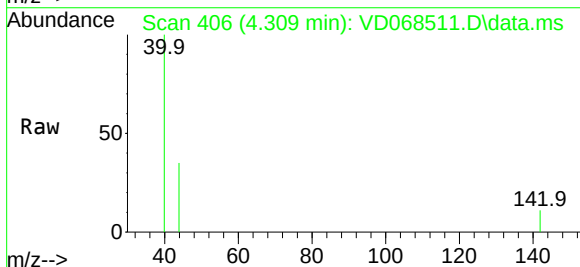
Instrument :
MSVOA_D
ClientSampleId :

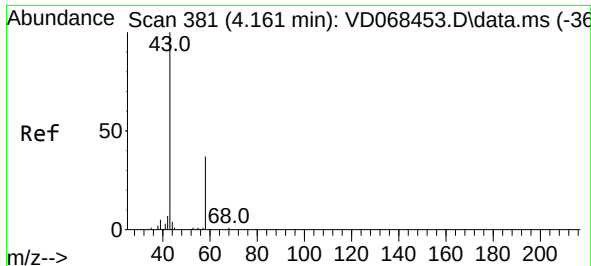
Tgt Ion:168 Resp: 115769
Ion Ratio Lower Upper
168 100
99 56.7 43.5 65.3



#10
Methyl Iodide
Concen: 2.70 ug/l
RT: 4.309 min Scan# 406
Delta R.T. 0.001 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion:142 Resp: 123
Ion Ratio Lower Upper
142 100
127 0.0 37.9 56.9#
141 0.0 11.5 17.3#

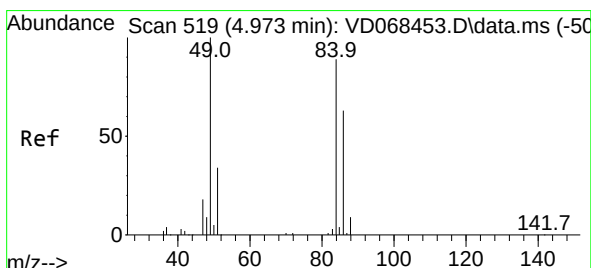
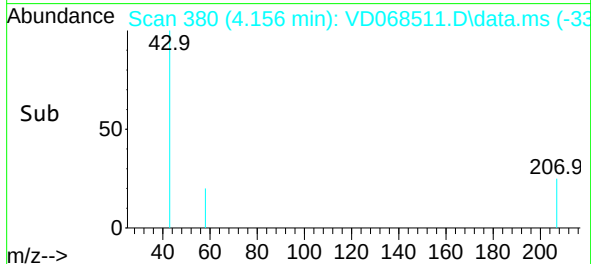
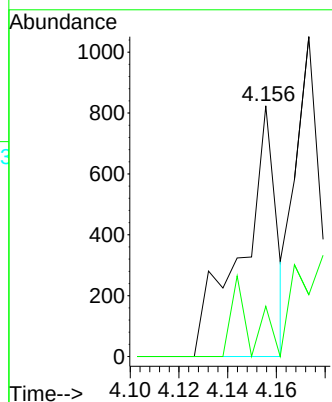
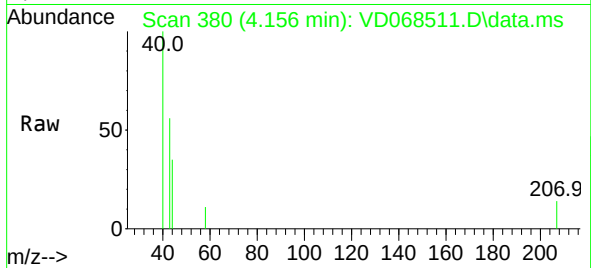




#16
Acetone
Concen: 4.40 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

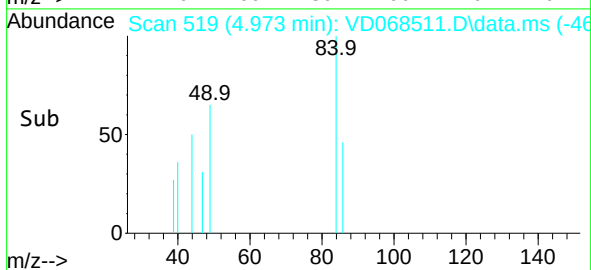
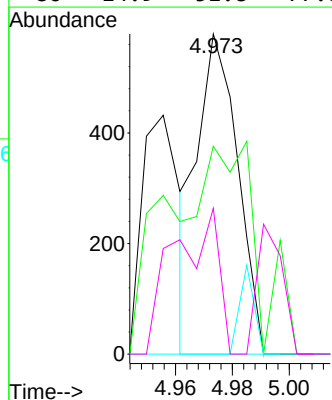
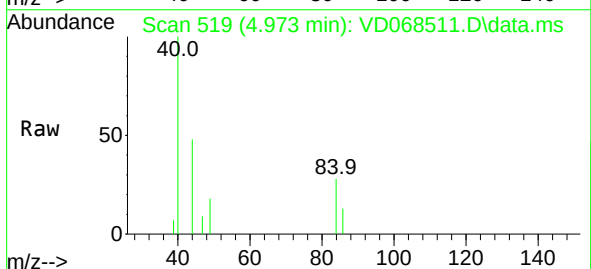
Instrument :
MSVOA_D
ClientSampleId :

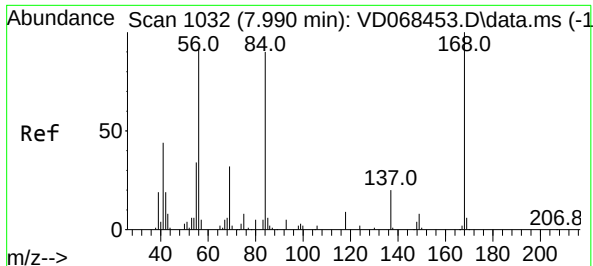
Tgt Ion: 43 Resp: 809
Ion Ratio Lower Upper
43 100
58 20.0 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.973 min Scan# 519
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

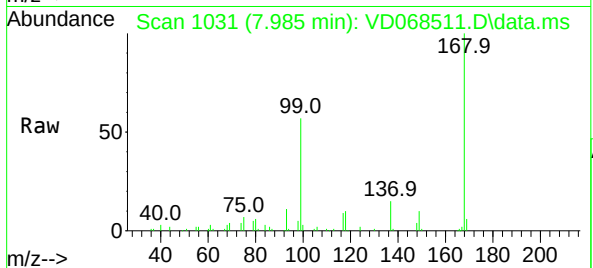
Tgt Ion: 84 Resp: 566
Ion Ratio Lower Upper
84 100
49 29.4 77.4 116.2#
51 0.0 26.1 39.1#
86 14.9 51.8 77.8#



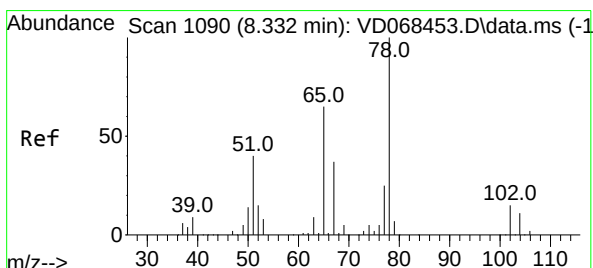
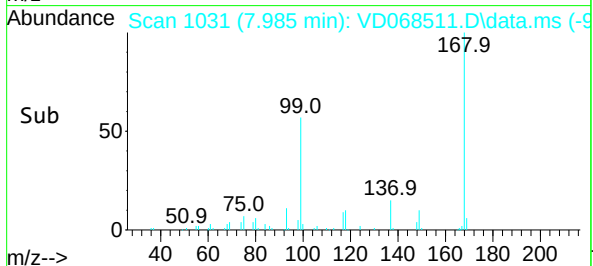
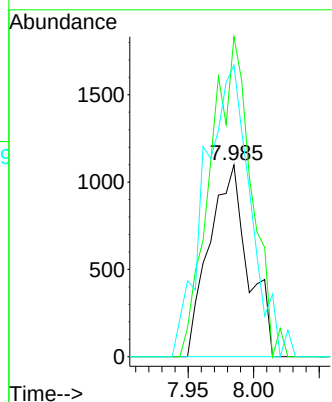


#31
Cyclohexane
Concen: 1.07 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Instrument :
MSVOA_D
ClientSampleId :

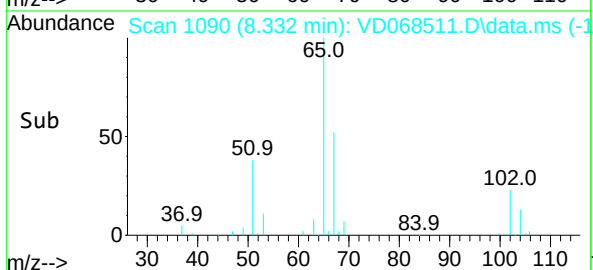
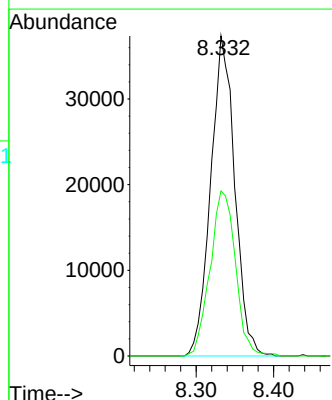
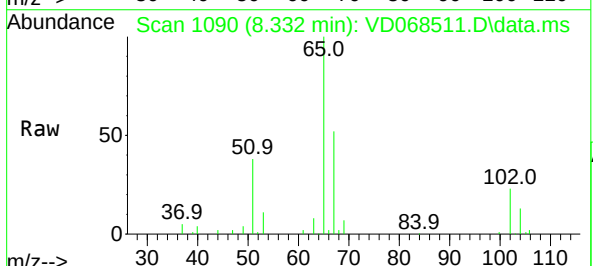


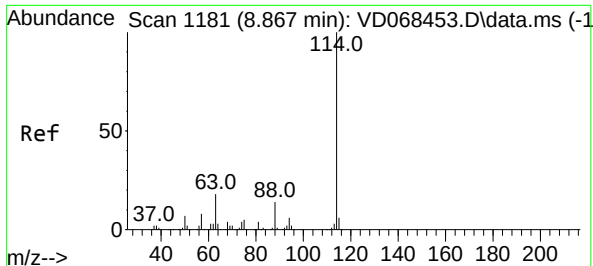
Tgt Ion: 56 Resp: 2255
Ion Ratio Lower Upper
56 100
69 166.9 30.1 45.1#
84 152.1 82.1 123.1#



#33
1,2-Dichloroethane-d4
Concen: 69.61 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 65 Resp: 80522
Ion Ratio Lower Upper
65 100
67 54.5 0.0 105.0



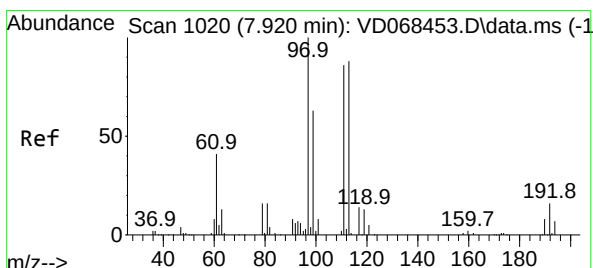
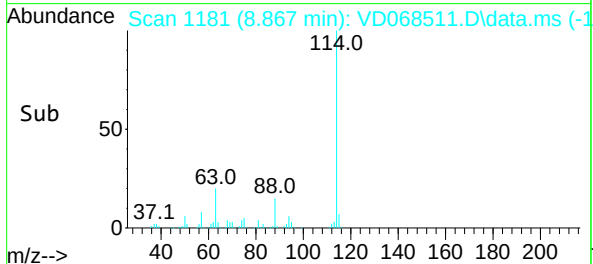
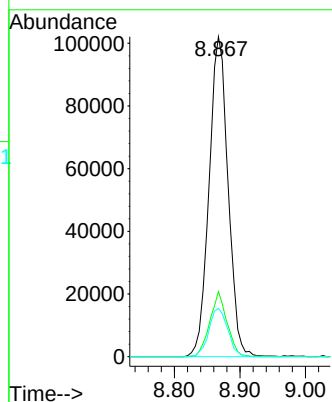
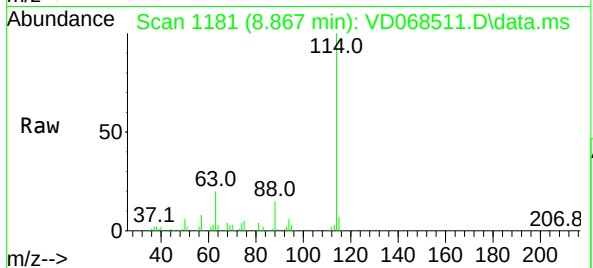


#34

1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Instrument :
MSVOA_D
ClientSampleId :

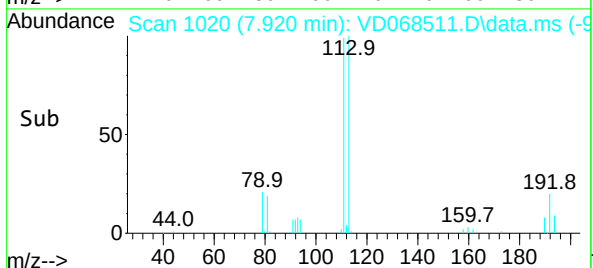
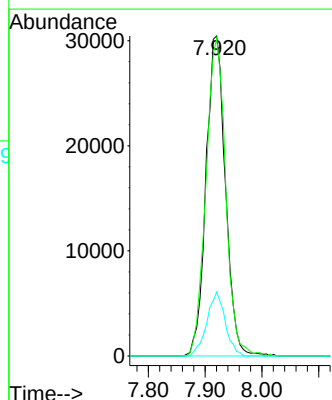
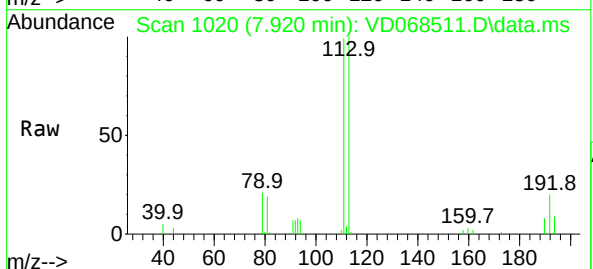
Tgt Ion:114 Resp: 205455
Ion Ratio Lower Upper
114 100
63 20.3 0.0 34.8
88 15.1 0.0 31.6

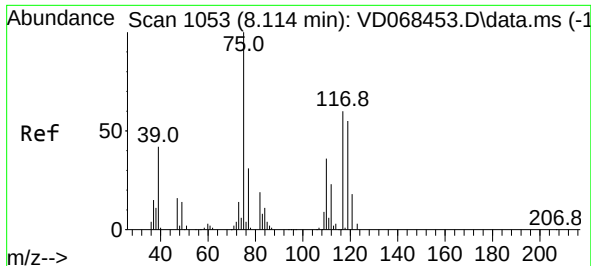


#35

Dibromofluoromethane
Concen: 58.26 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion:113 Resp: 72109
Ion Ratio Lower Upper
113 100
111 100.9 81.4 122.0
192 18.9 16.1 24.1

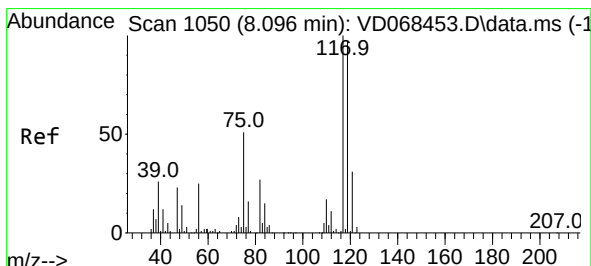
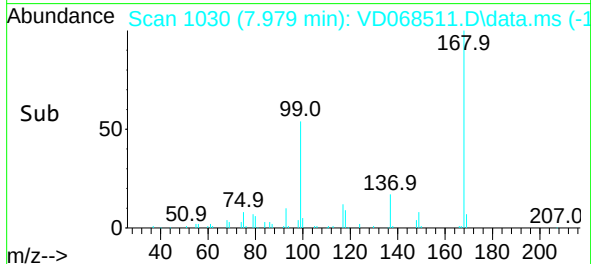
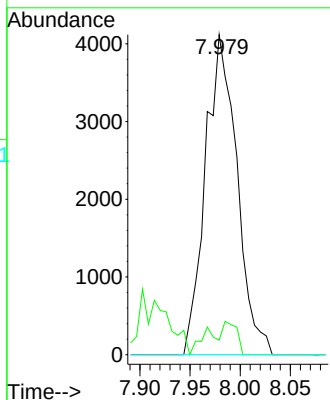
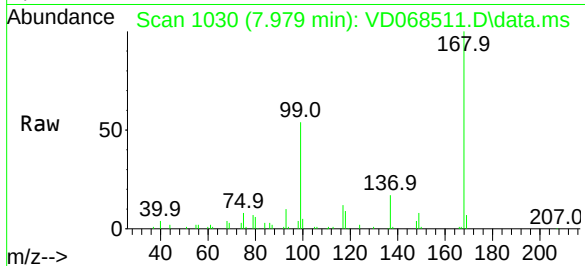




#36
1,1-Dichloropropene
Concen: 4.61 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.135 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

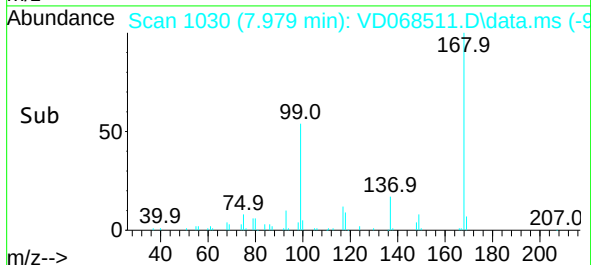
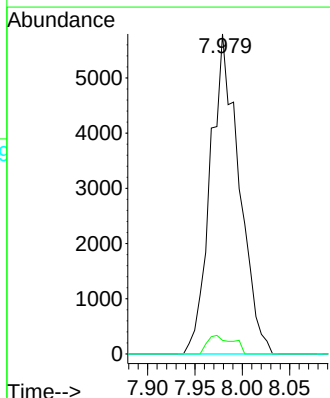
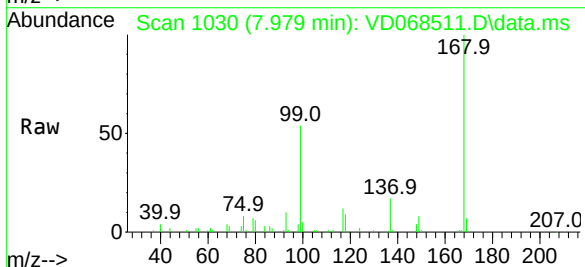
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MSVOA_D
ClientSampleId :

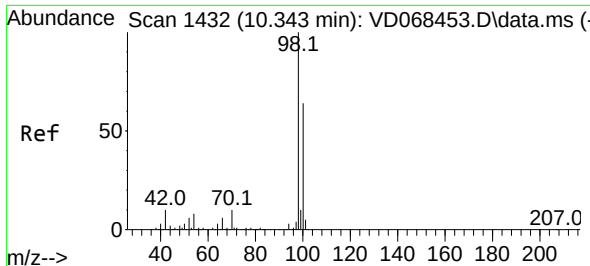
Tgt Ion: 75 Resp: 8997
Ion Ratio Lower Upper
75 100
110 4.6 19.4 58.2#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 6.69 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.117 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 117 Resp: 12270
Ion Ratio Lower Upper
117 100
119 4.2 77.3 115.9#
121 0.0 24.7 37.1#

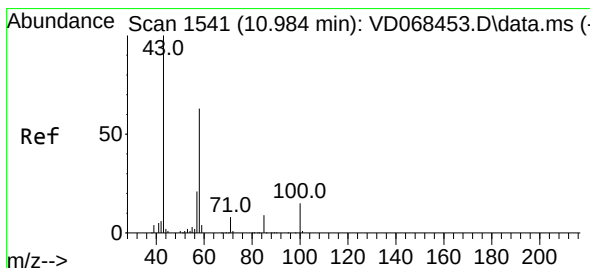
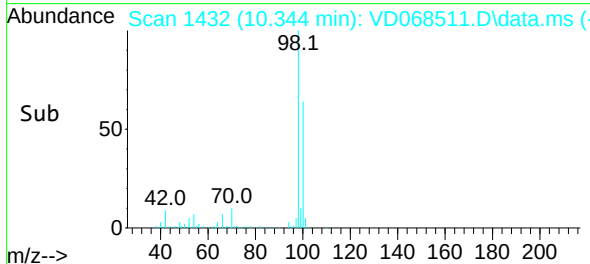
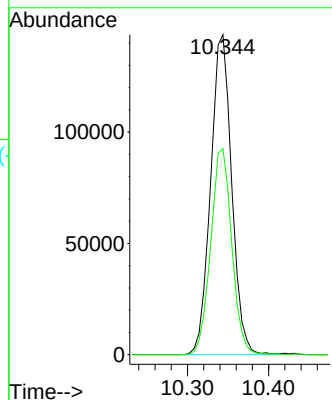
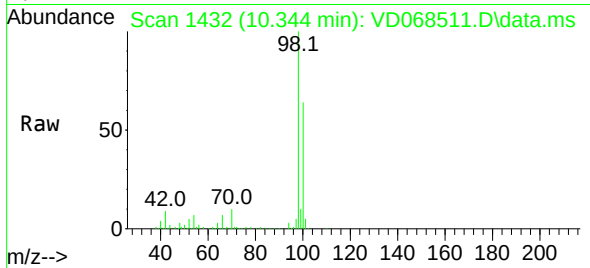




#50
Toluene-d8
Concen: 52.59 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

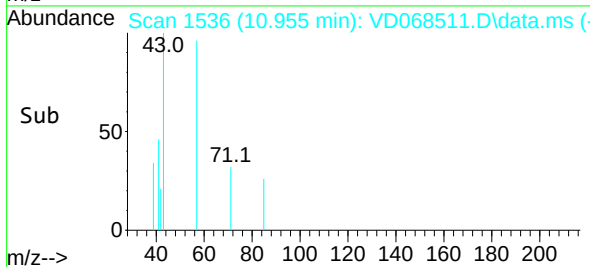
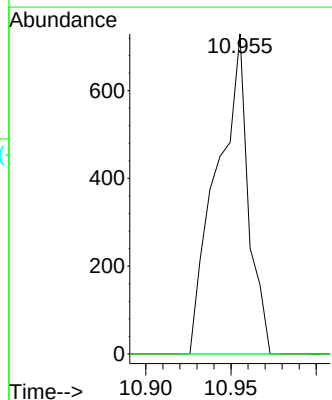
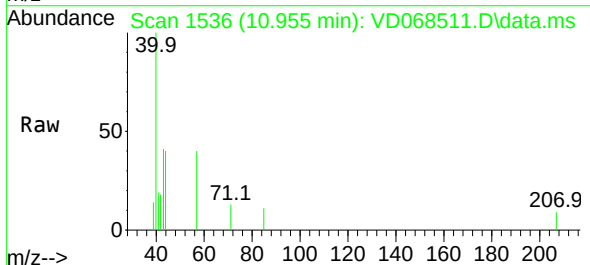
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MSVOA_D
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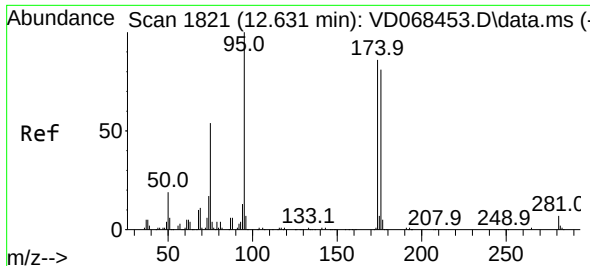
Tgt Ion: 98 Resp: 259279
Ion Ratio Lower Upper
98 100
100 64.4 53.0 79.4



#59
2-Hexanone
Concen: 2.25 ug/l
RT: 10.955 min Scan# 1536
Delta R.T. -0.029 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 43 Resp: 935
Ion Ratio Lower Upper
43 100
58 0.0 31.0 93.0#

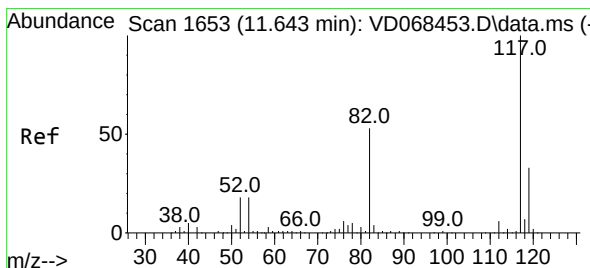
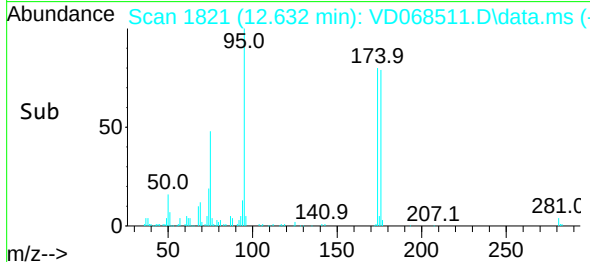
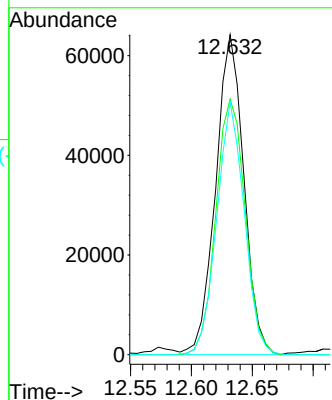
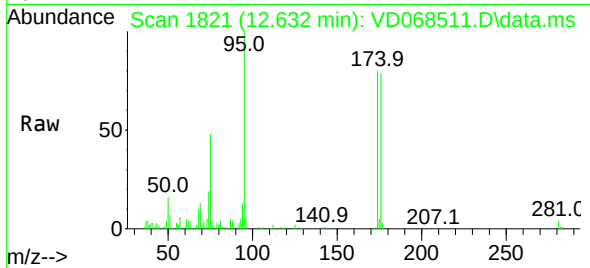




#62
4-Bromofluorobenzene
Concen: 65.01 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

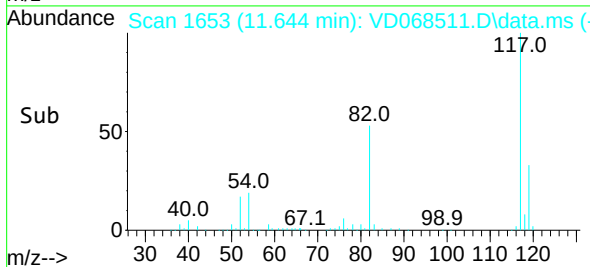
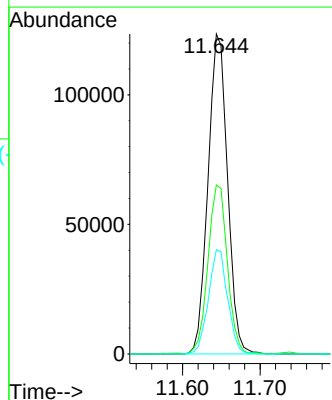
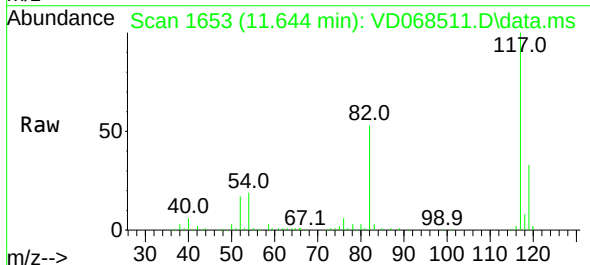
Instrument :
MSVOA_D
ClientSampleId :

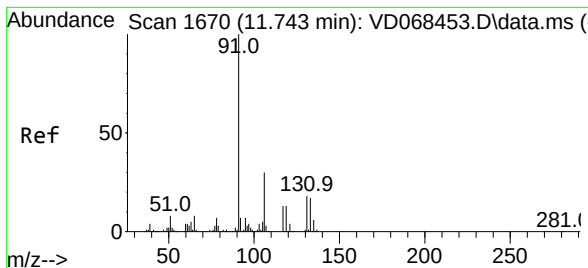
Tgt Ion: 95 Resp: 103290
Ion Ratio Lower Upper
95 100
174 83.1 0.0 172.4
176 77.1 0.0 168.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 117 Resp: 215508
Ion Ratio Lower Upper
117 100
82 52.6 41.4 62.0
119 32.6 26.1 39.1

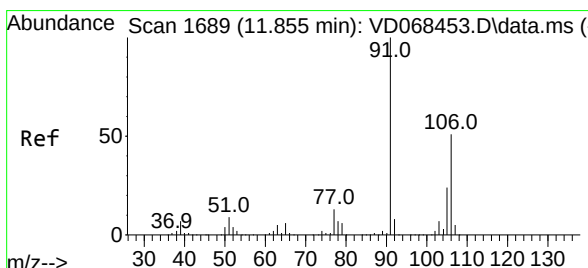
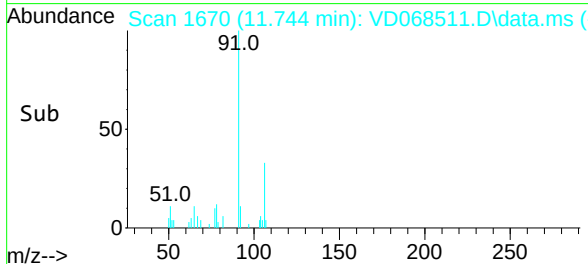
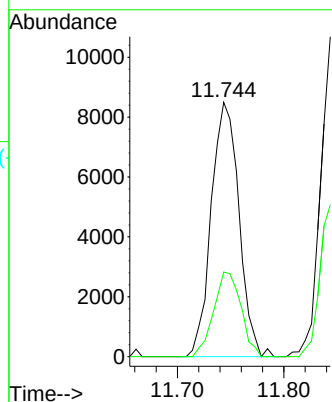
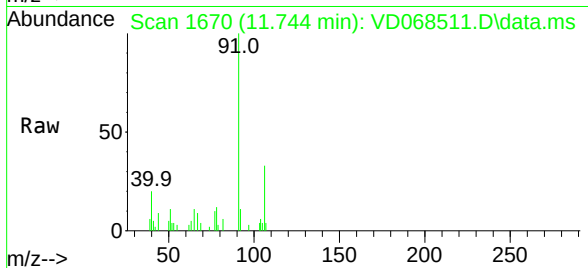




#67
Ethyl Benzene
Concen: 1.96 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

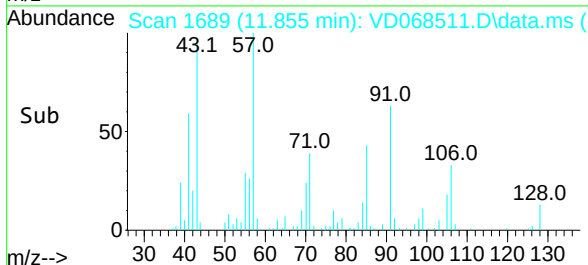
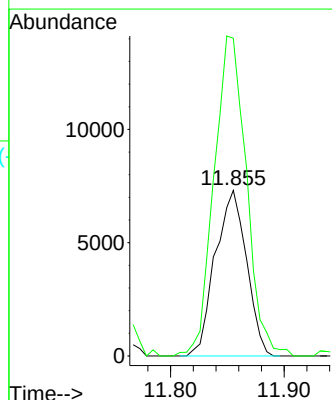
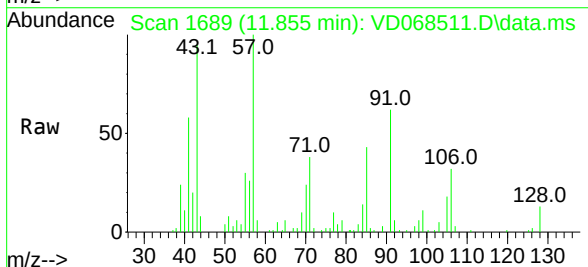
Instrument :
MSVOA_D
ClientSampled :

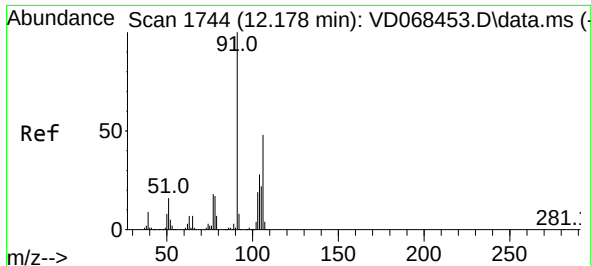
Tgt Ion: 91 Resp: 15374
Ion Ratio Lower Upper
91 100
106 33.2 25.9 38.9



#68
m/p-Xylenes
Concen: 4.70 ug/l
RT: 11.855 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion:106 Resp: 13987
Ion Ratio Lower Upper
106 100
91 199.9 159.1 238.7

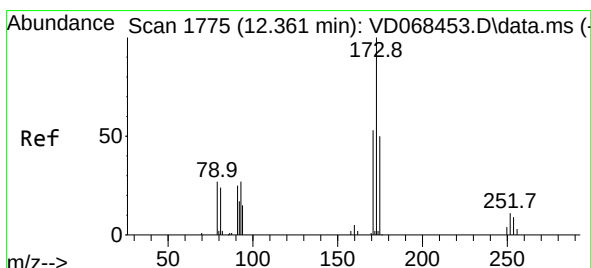
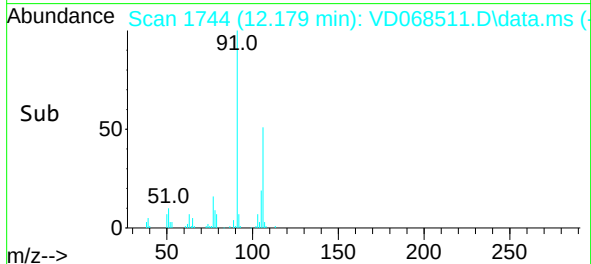
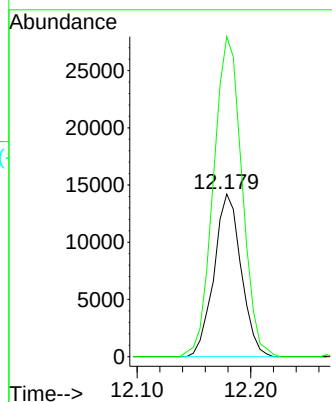
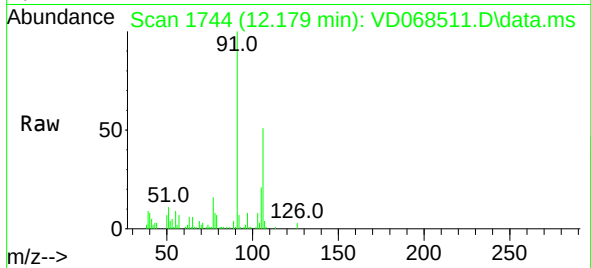




#69
o-Xylene
Concen: 8.60 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

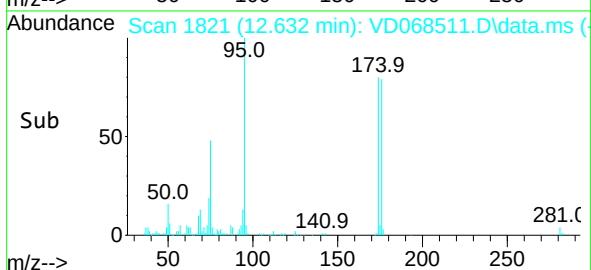
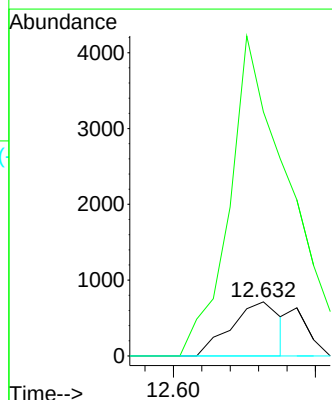
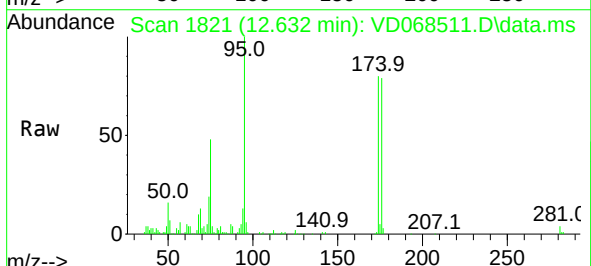
Instrument :
MSVOA_D
ClientSampled :

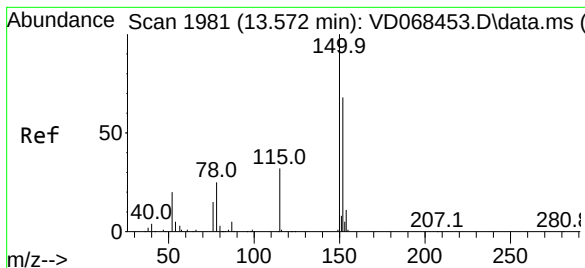
Tgt Ion:106 Resp: 23558
Ion Ratio Lower Upper
106 100
91 206.8 108.7 325.9



#71
Bromoform
Concen: 1.11 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.271 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion:173 Resp: 860
Ion Ratio Lower Upper
173 100
175 543.8 24.6 73.8#
254 0.0 0.0 0.0

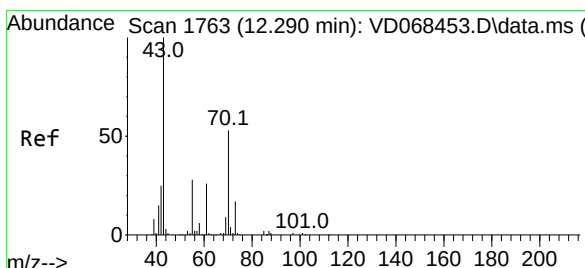
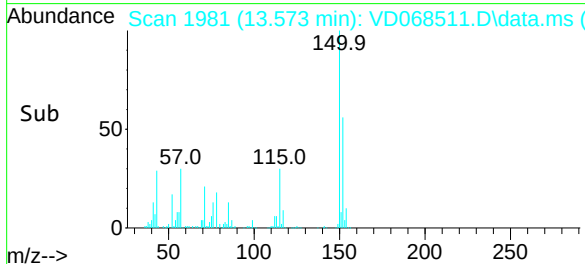
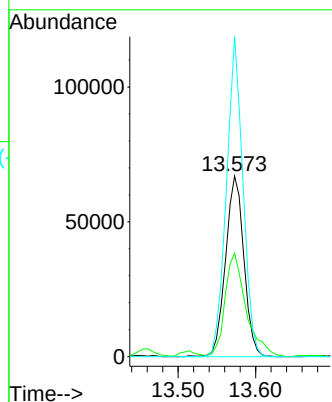
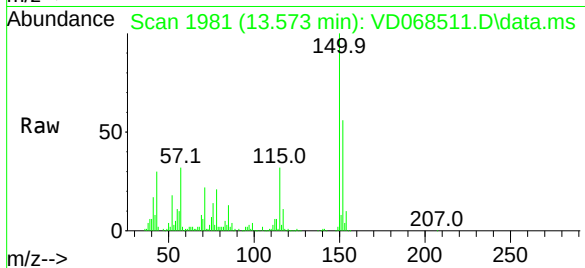




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.001 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

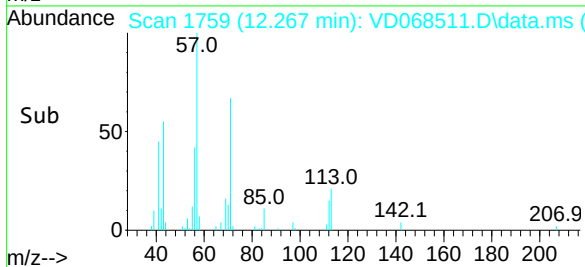
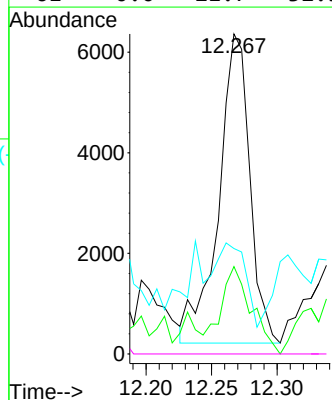
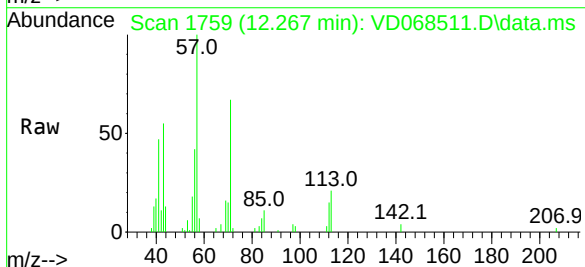
Instrument :
MSVOA_D
ClientSampleId :

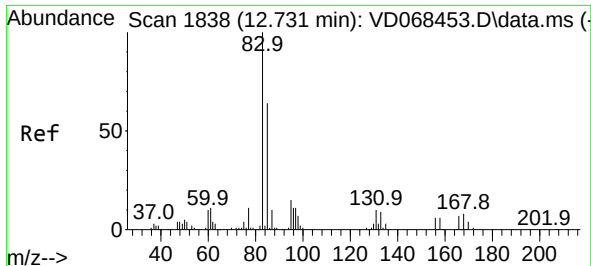
Tgt Ion:152 Resp: 110566
Ion Ratio Lower Upper
152 100
115 65.6 28.9 86.8
150 159.7 0.0 344.4



#74
N-ethyl acetate
Concen: 7.26 ug/l
RT: 12.267 min Scan# 1759
Delta R.T. -0.023 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 43 Resp: 10147
Ion Ratio Lower Upper
43 100
70 28.0 41.8 62.8#
55 23.9 24.2 36.4#
61 0.0 21.7 32.5#

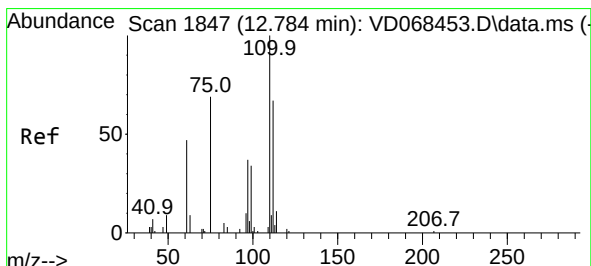
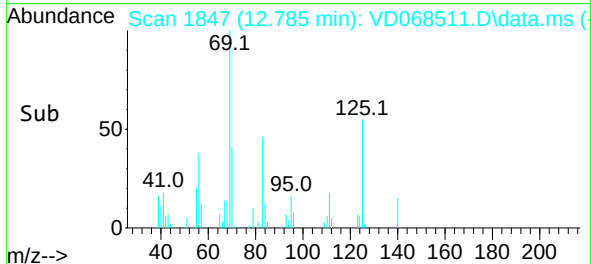
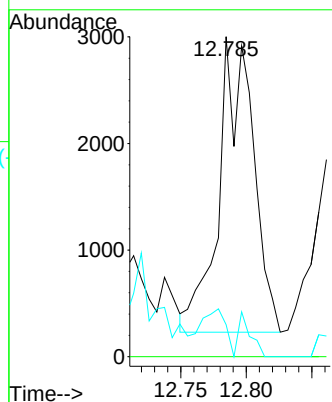
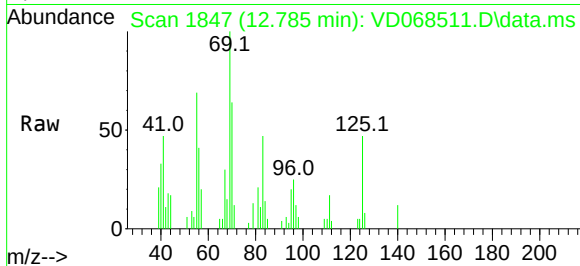




#75
1,1,2,2-Tetrachloroethane
Concen: 3.59 ug/l
RT: 12.785 min Scan# 1847
Delta R.T. 0.053 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

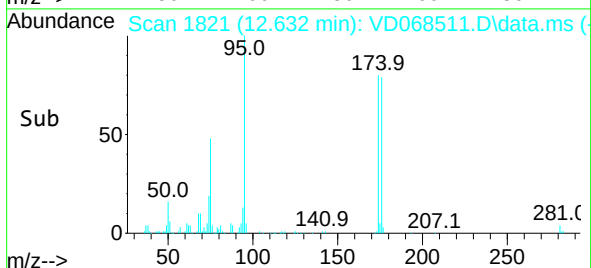
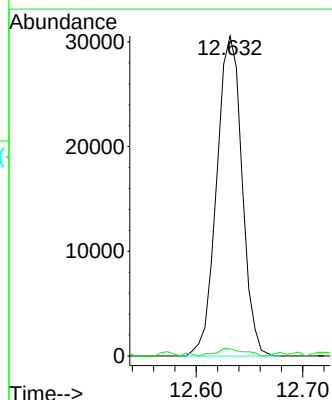
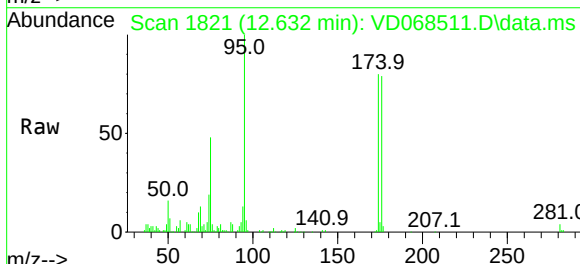
Instrument :
MSVOA_D
ClientSampleId :

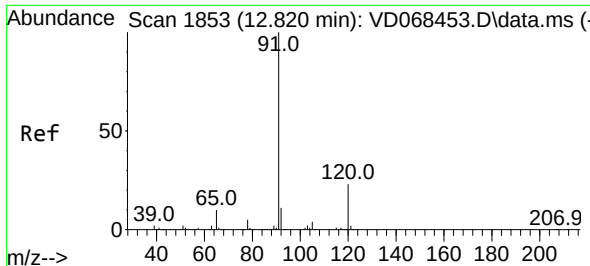
Tgt Ion: 83 Resp: 5059
Ion Ratio Lower Upper
83 100
131 0.0 5.8 17.4#
85 0.0 32.4 97.2#



#76
1,2,3-Trichloropropane
Concen: 51.42 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.152 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 75 Resp: 50467
Ion Ratio Lower Upper
75 100
77 2.6 0.0 0.0#

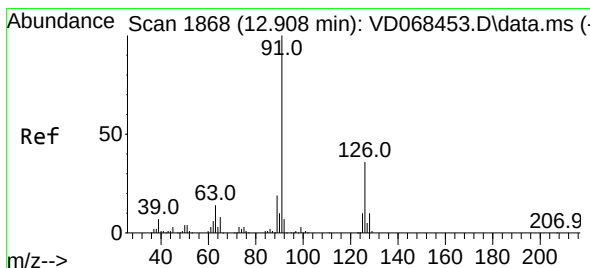
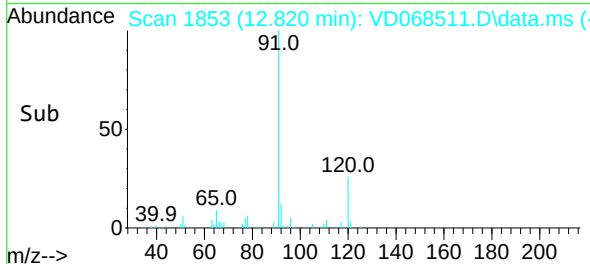
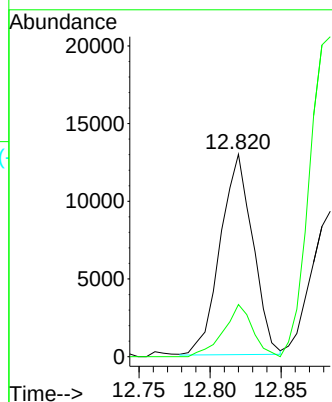
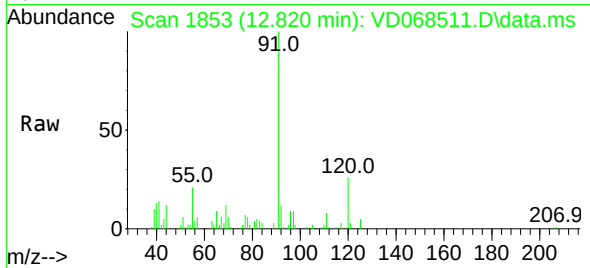




#78
n-propylbenzene
Concen: 2.10 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

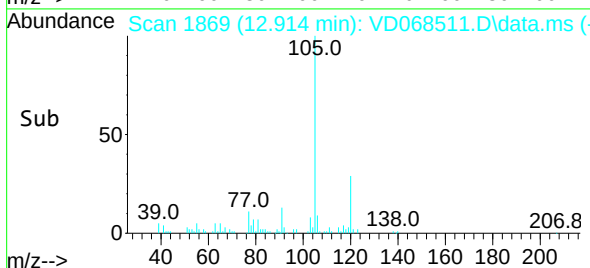
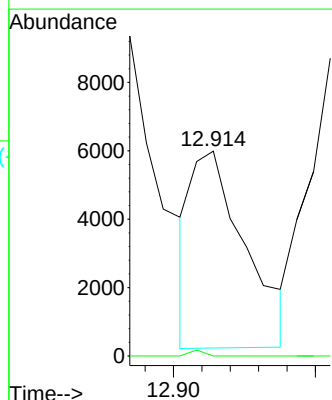
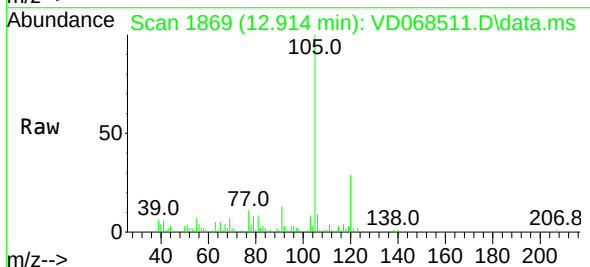
Instrument :
MSVOA_D
ClientSampled :

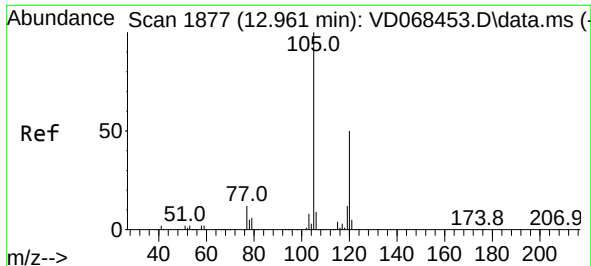
Tgt Ion: 91 Resp: 20554
Ion Ratio Lower Upper
91 100
120 23.4 12.0 36.0



#79
2-Chlorotoluene
Concen: 1.39 ug/l
RT: 12.914 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 91 Resp: 7568
Ion Ratio Lower Upper
91 100
126 0.8 17.8 53.5#

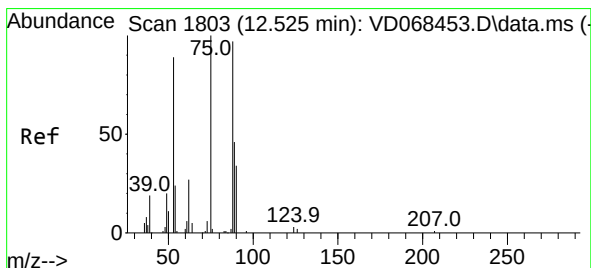
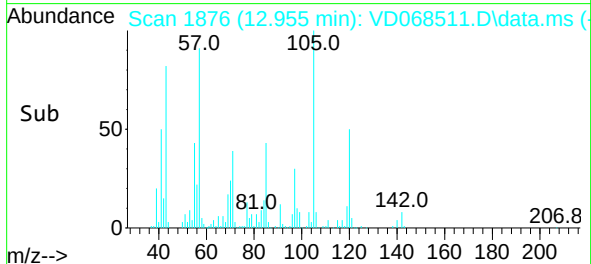
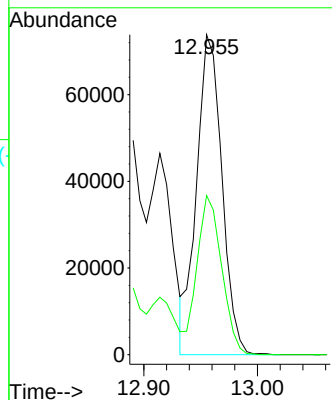
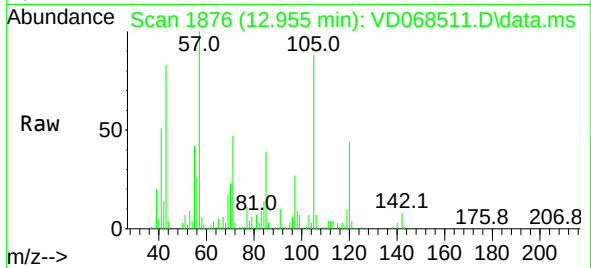




#80
 1,3,5-Trimethylbenzene
 Concen: 17.04 ug/l
 RT: 12.955 min Scan# 1876
 Delta R.T. -0.006 min
 Lab File: VD068511.D
 Acq: 03 Mar 2021 14:25

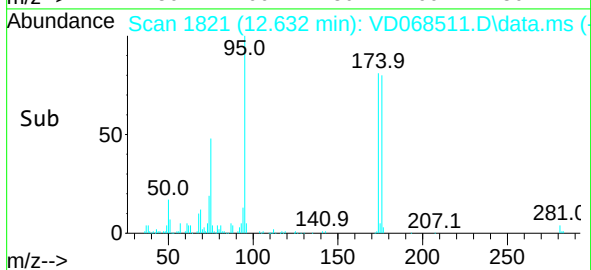
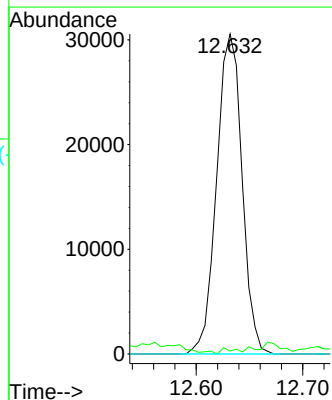
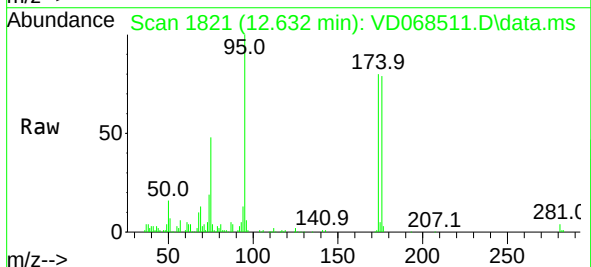
Instrument :
 MSVOA_D
 ClientSampleId :

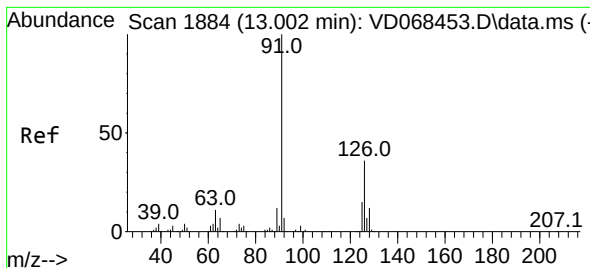
Tgt Ion:105 Resp: 114536
 Ion Ratio Lower Upper
 105 100
 120 49.0 24.2 72.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 119.98 ug/l
 RT: 12.632 min Scan# 1821
 Delta R.T. 0.106 min
 Lab File: VD068511.D
 Acq: 03 Mar 2021 14:25

Tgt Ion: 75 Resp: 50467
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.2 105.2#
 89 0.0 40.3 60.5#

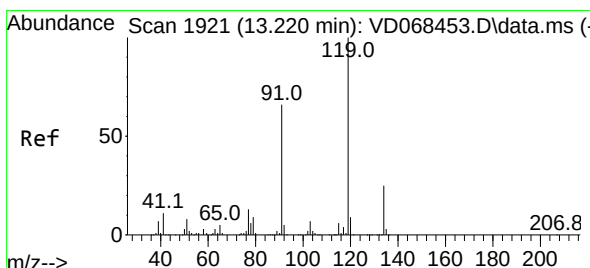
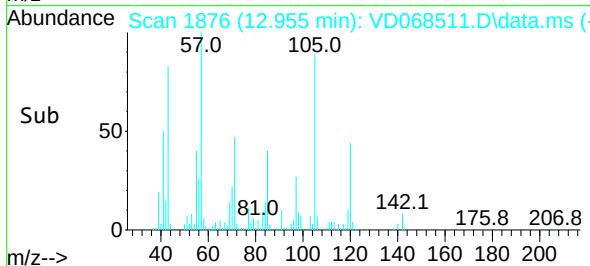
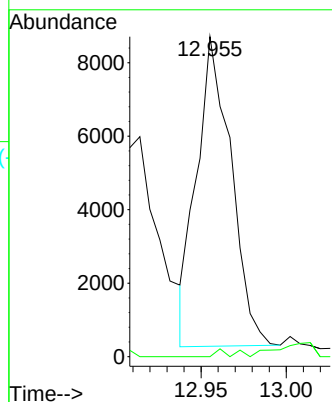
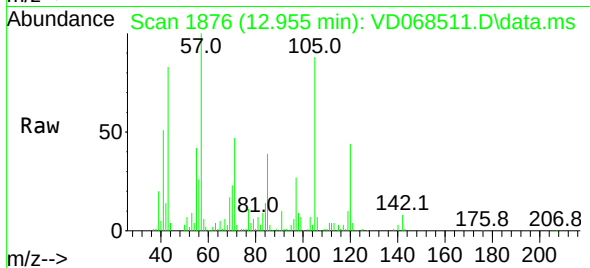




#82
4-Chlorotoluene
Concen: 2.06 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. -0.047 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

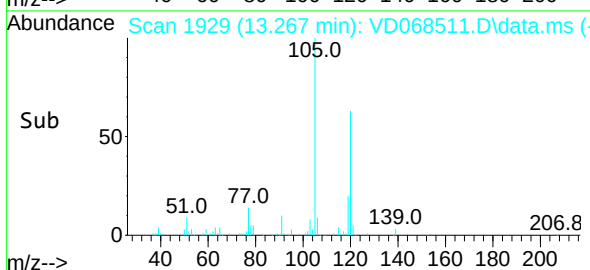
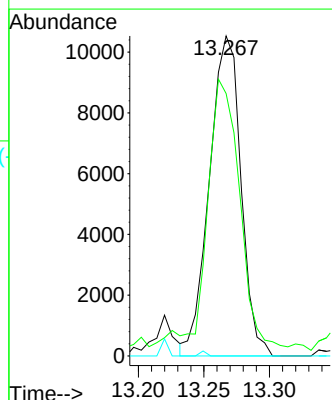
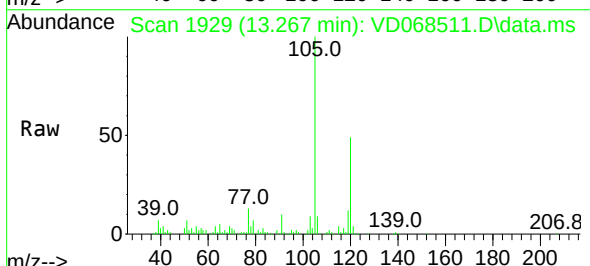
Instrument :
MSVOA_D
ClientSampleId :

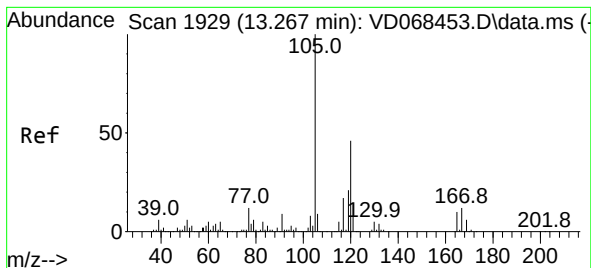
Tgt Ion: 91 Resp: 11794
Ion Ratio Lower Upper
91 100
126 0.6 17.7 53.1#



#83
tert-Butylbenzene
Concen: 3.07 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.047 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 119 Resp: 17592
Ion Ratio Lower Upper
119 100
91 83.0 31.1 93.5
134 0.0 13.3 39.8#

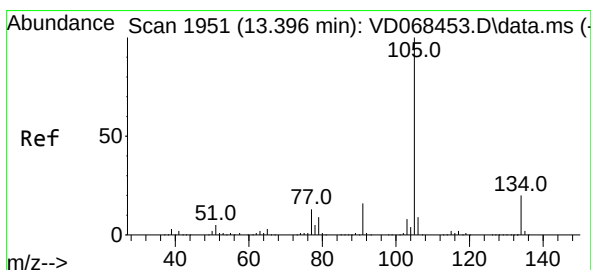
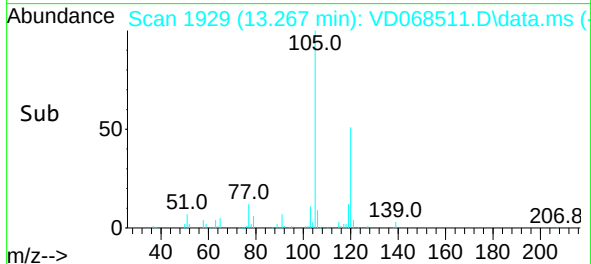
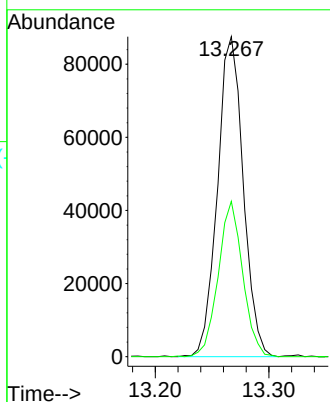
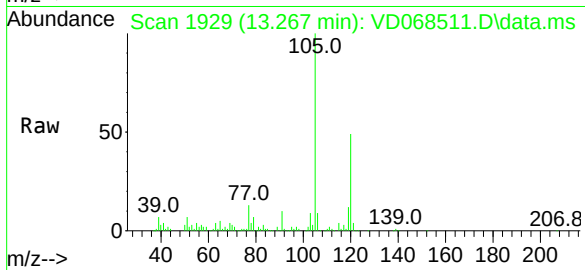




#84
1,2,4-Trimethylbenzene
Concen: 20.53 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

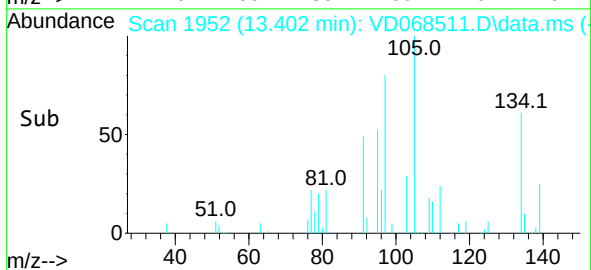
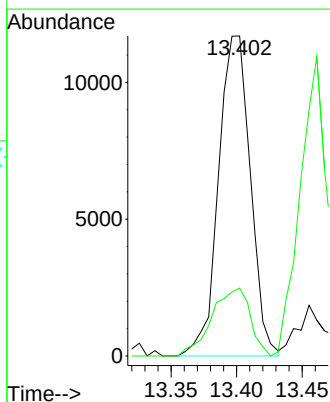
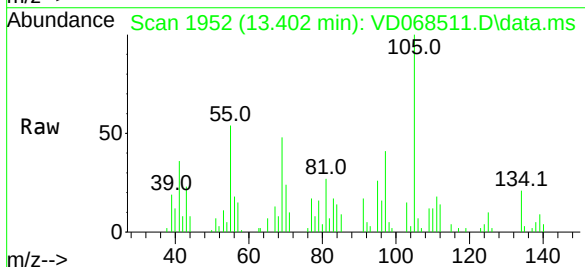
Instrument :
MSVOA_D
ClientSampleId :

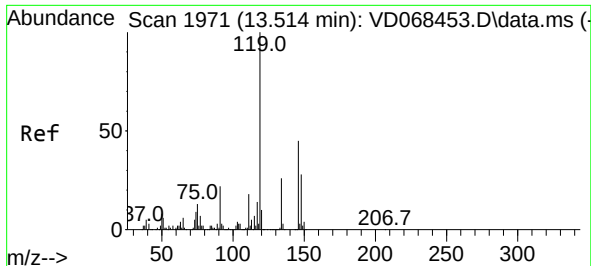
Tgt Ion:105 Resp: 138164
Ion Ratio Lower Upper
105 100
120 46.1 22.4 67.0



#85
sec-Butylbenzene
Concen: 2.45 ug/l
RT: 13.402 min Scan# 1952
Delta R.T. 0.006 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion:105 Resp: 19765
Ion Ratio Lower Upper
105 100
134 25.5 10.3 30.9

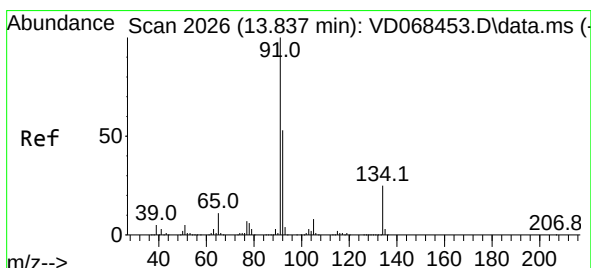
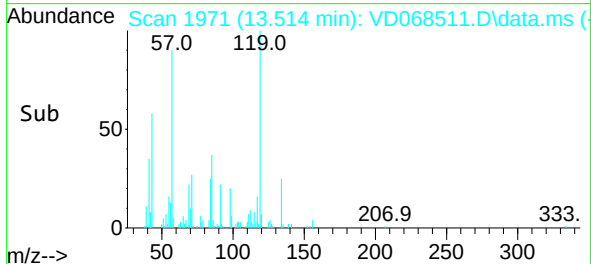
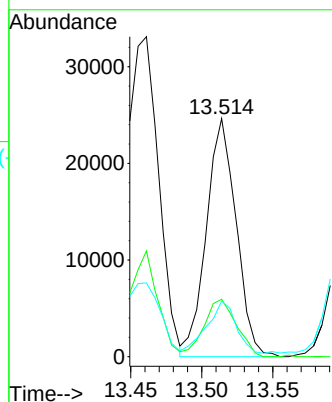
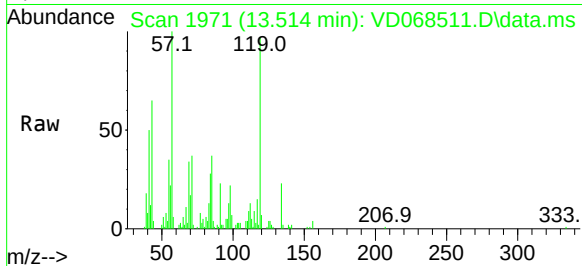




#86
p-Isopropyltoluene
Concen: 4.91 ug/l
RT: 13.514 min Scan# 1971
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

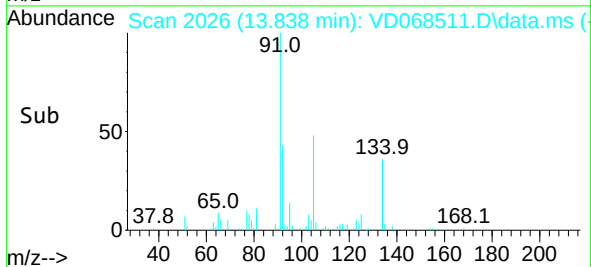
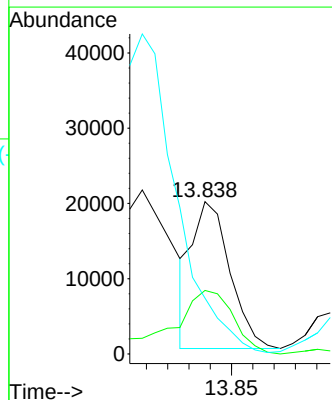
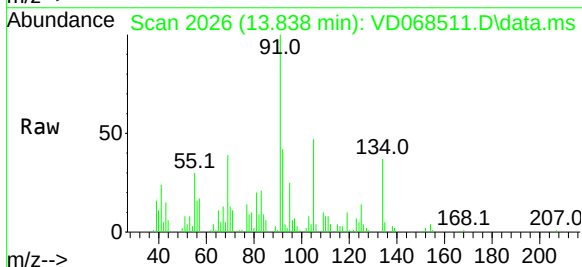
Instrument :
MSVOA_D
ClientSampleId :

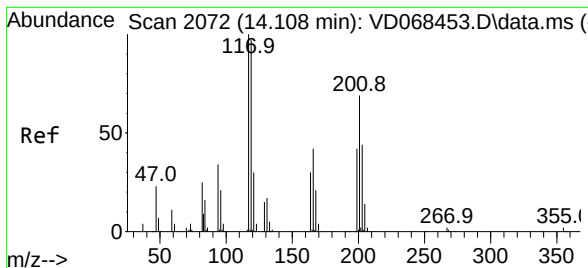
Tgt Ion:119 Resp: 35998
Ion Ratio Lower Upper
119 100
134 26.3 12.9 38.7
91 21.3 11.7 35.0



#89
n-Butylbenzene
Concen: 3.40 ug/l
RT: 13.838 min Scan# 2026
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 91 Resp: 24038
Ion Ratio Lower Upper
91 100
92 69.2 27.2 81.6
134 0.0 13.9 41.7#

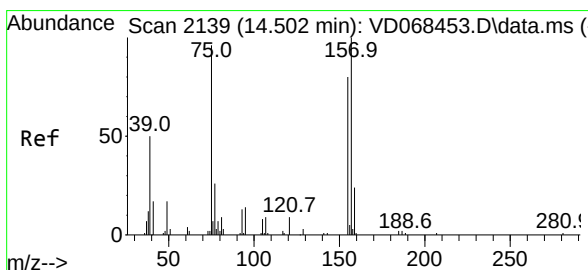
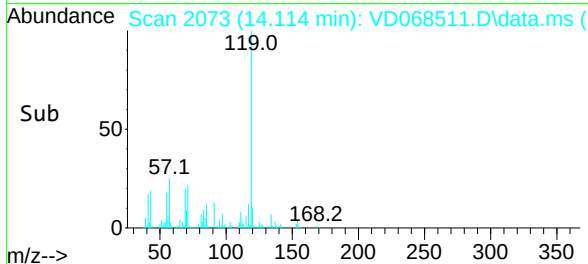
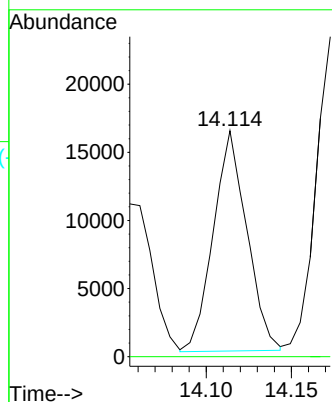
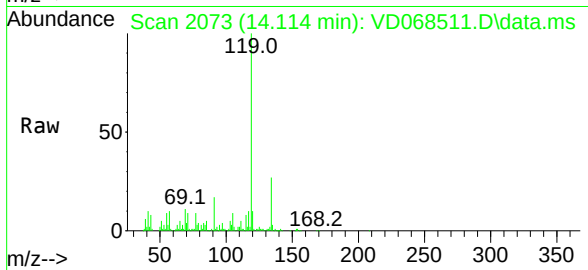




#90
Hexachloroethane
Concen: 15.20 ug/l
RT: 14.114 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

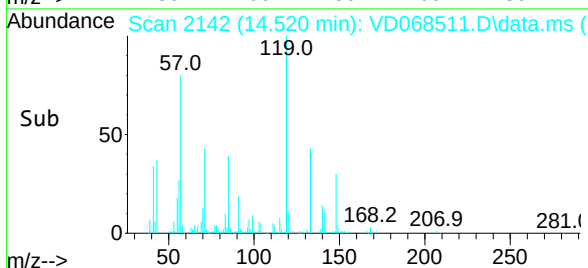
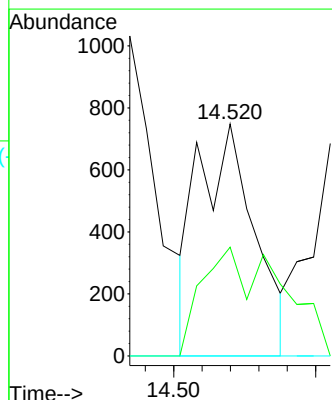
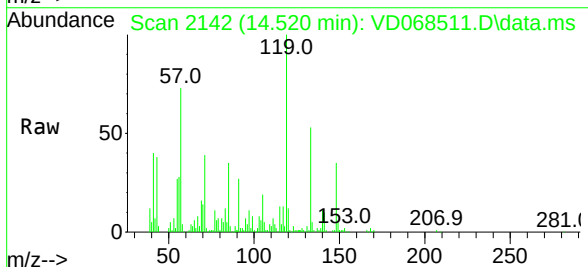
Instrument :
MSVOA_D
ClientSampleId :

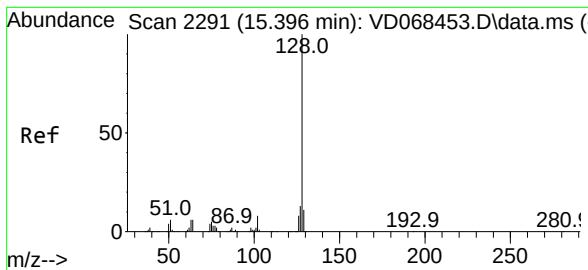
Tgt Ion:117 Resp: 22161
Ion Ratio Lower Upper
117 100
201 0.0 39.5 118.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.12 ug/l
RT: 14.520 min Scan# 2142
Delta R.T. 0.018 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Tgt Ion: 75 Resp: 1024
Ion Ratio Lower Upper
75 100
155 66.7 48.0 144.2
157 0.0 65.0 194.8#





#95
Naphthalene
Concen: 14.11 ug/l
RT: 15.396 min Scan# 2291
Delta R.T. 0.000 min
Lab File: VD068511.D
Acq: 03 Mar 2021 14:25

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 61192
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 7.2 8.8 13.2#

