

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD042821\
 Data File : VD069007.D
 Acq On : 28 Apr 2021 16:36
 Operator : VA/SY
 Sample : M2196-07
 Misc : 4.89G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WALL-D-4075-B

Quant Time: Apr 29 06:33:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D040721S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 08 03:50:31 2021
 Response via : Initial Calibration

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

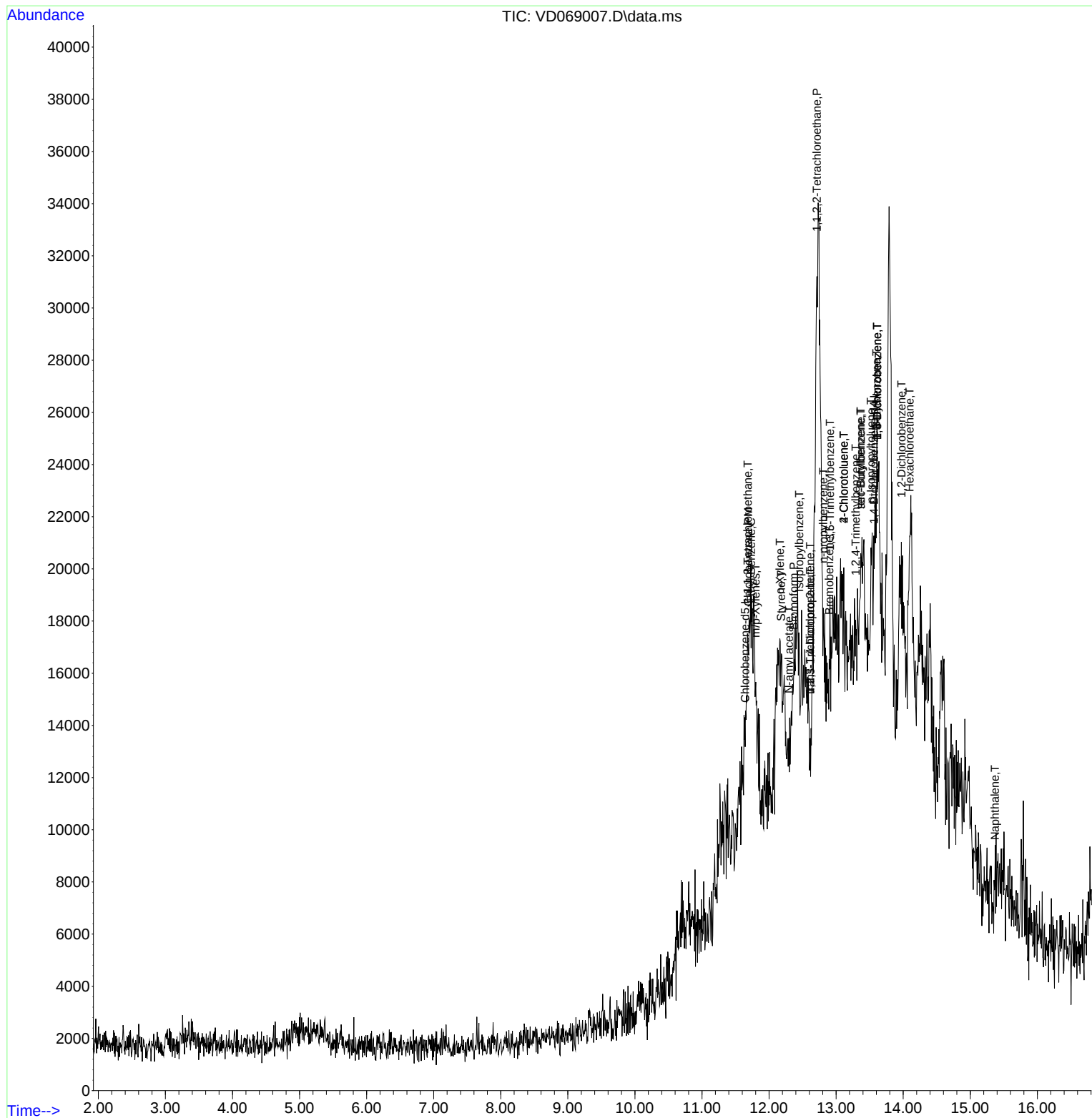
Internal Standards						
1) Pentafluorobenzene	0.000	168	0	0.00	ug/l	-7.98
34) 1,4-Difluorobenzene	0.000	114	0	0.00	ug/l	-8.87
63) Chlorobenzene-d5	11.644	117	160	50.00	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	67	50.00	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0	0.00	ug/l	
Spiked Amount	50.000	Range	50 - 163	Recovery	=	0.00%#
35) Dibromofluoromethane	0.000	113	0	0.00	ug/l	
Spiked Amount	50.000	Range	54 - 147	Recovery	=	0.00%#
50) Toluene-d8	10.285	98	70	0.00	ug/l	-0.05
Spiked Amount	50.000	Range	49 - 140	Recovery	=	0.00%#
62) 4-Bromofluorobenzene	12.373	95	242	0.00	ug/l	-0.25
Spiked Amount	50.000	Range	25 - 144	Recovery	=	0.00%#
Target Compounds						Qvalue
65) Chlorobenzene	11.691	112	73	21.08	ug/l #	43
66) 1,1,1,2-Tetrachloroethane	11.685	131	189	151.78	ug/l	79
67) Ethyl Benzene	11.732	91	795	132.55	ug/l #	43
68) m/p-Xylenes	11.802	106	65	28.09	ug/l #	1
69) o-Xylene	12.161	106	148	70.33	ug/l	45
70) Styrene	12.179	104	76	20.72	ug/l #	31
71) Bromoform	12.367	173	145	217.35	ug/l #	29
73) Isopropylbenzene	12.449	105	667	136.34	ug/l	100
74) N-amyl acetate	12.296	43	314	378.48	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.714	83	2375	2597.37	ug/l #	28
76) 1,2,3-Trichloropropane	12.614	75	71	116.00	ug/l #	100
77) Bromobenzene	12.896	156	112	95.23	ug/l #	1
78) n-propylbenzene	12.808	91	520	87.51	ug/l	83
79) 2-Chlorotoluene	13.114	91	303	91.29	ug/l	78
80) 1,3,5-Trimethylbenzene	12.908	105	469	114.67	ug/l	80
81) trans-1,4-Dichloro-2-b...	12.614	75	71	269.20	ug/l #	71
82) 4-Chlorotoluene	13.114	91	303	86.12	ug/l	78
83) tert-Butylbenzene	13.367	119	306	88.17	ug/l	70
84) 1,2,4-Trimethylbenzene	13.290	105	544	131.70	ug/l	68
85) sec-Butylbenzene	13.367	105	451	92.10	ug/l	87
86) p-Isopropyltoluene	13.520	119	1089	243.47	ug/l #	63
87) 1,3-Dichlorobenzene	13.614	146	59	25.32	ug/l #	1
88) 1,4-Dichlorobenzene	13.614	146	59	25.59	ug/l #	1
89) n-Butylbenzene	13.602	91	323	76.67	ug/l	97
90) Hexachloroethane	14.096	117	395	443.37	ug/l #	14
91) 1,2-Dichlorobenzene	13.973	146	61	30.25	ug/l #	1
95) Naphthalene	15.367	128	222	102.15	ug/l #	1

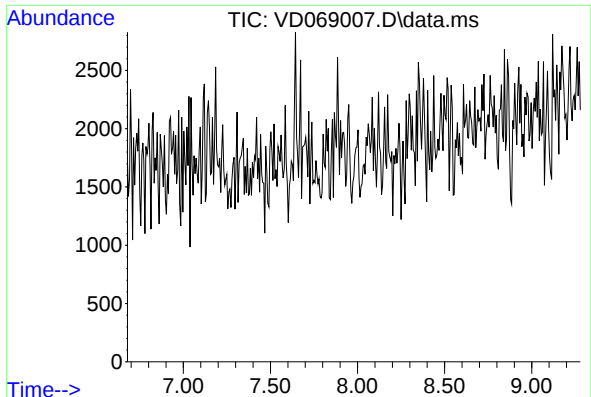
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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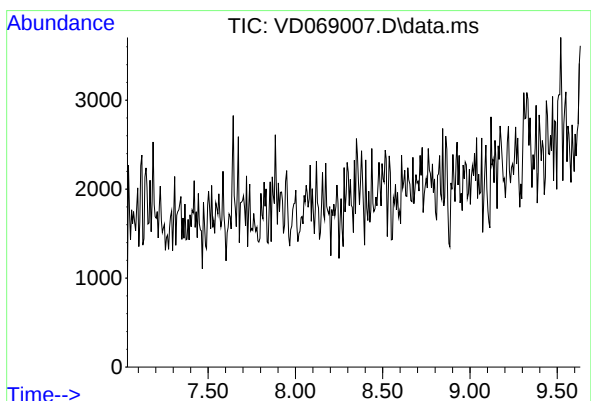
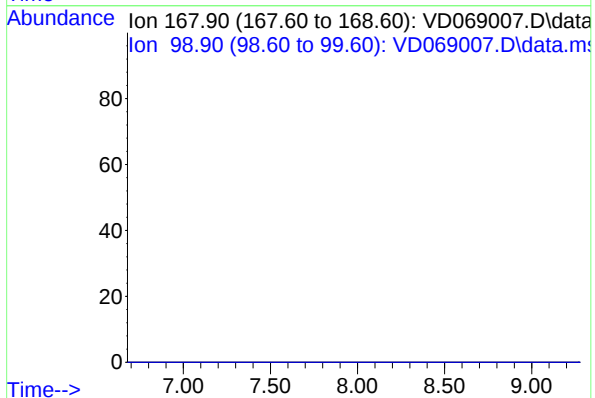


#1
Pentafluorobenzene
Concen: 0.00 ug/l
Expected RT: 7.98 min

Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion: 168
Sig Exp Ratio
168 100
99 57.7

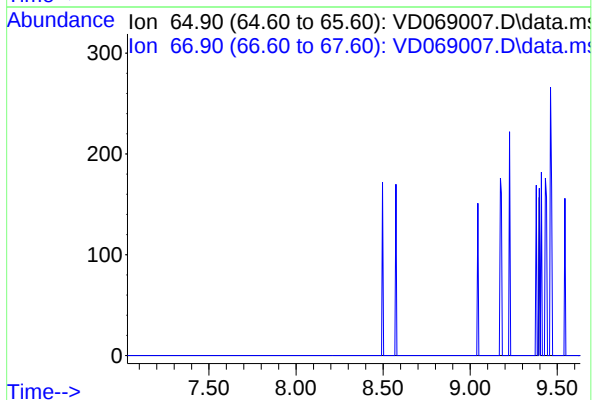
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MSVOA_D
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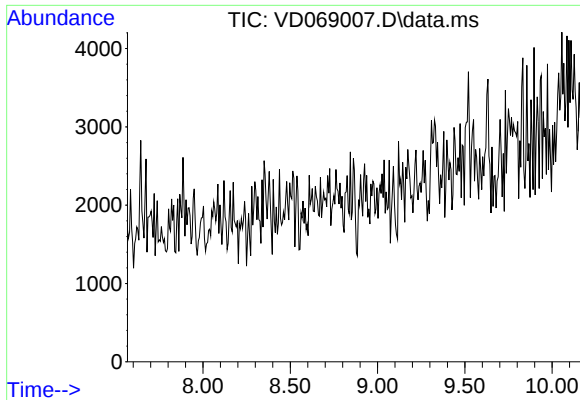


#33
1,2-Dichloroethane-d4
Concen: 0.00 ug/l
Expected RT: 8.33 min

Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion: 65
Sig Exp Ratio
65 100
67 53.0





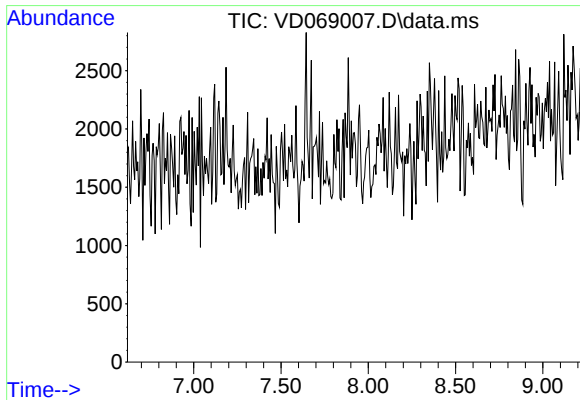
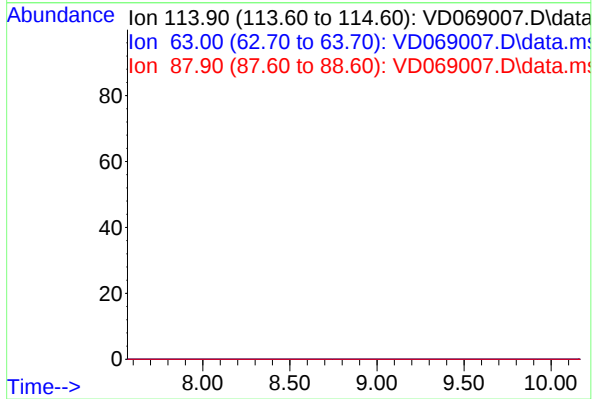
#34
 1,4-Difluorobenzene
 Concen: 0.00 ug/l
 Expected RT: 8.87 min

 Lab File: VD069007.D
 Acq: 28 Apr 2021 16:36

Instrument :
 MSVOA_D
 ClientSampleId :
 WALL-D-4075-B

Tgt Ion: 114

Sig	Exp Ratio
114	100
63	19.1
88	14.7

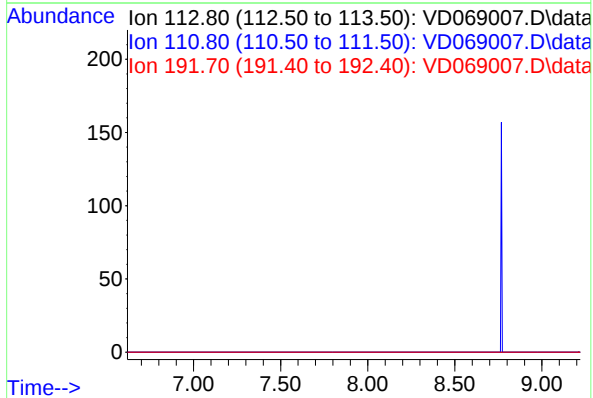


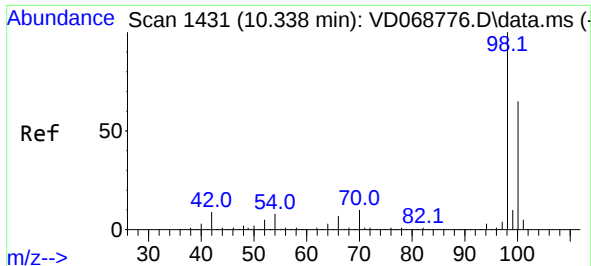
#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 Expected RT: 7.92 min

 Lab File: VD069007.D
 Acq: 28 Apr 2021 16:36

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.1
192	18.9

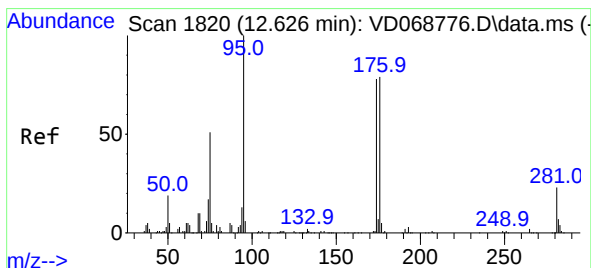
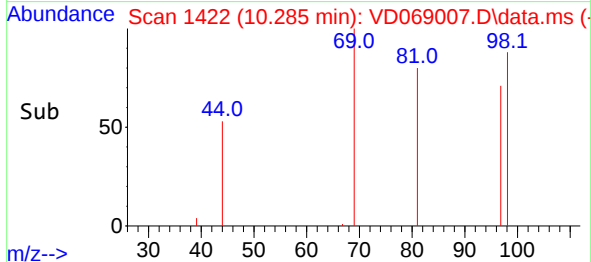
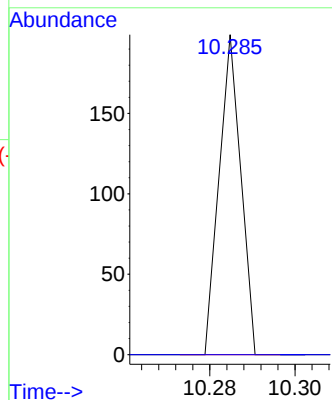
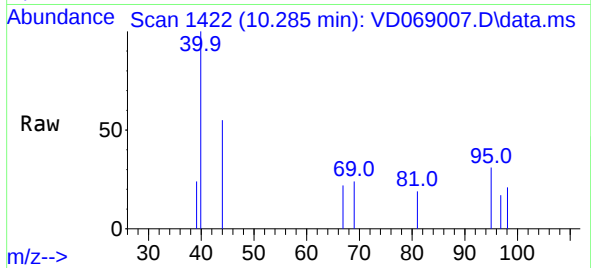




#50
Toluene-d8
Concen: 0.00 ug/l
RT: 10.285 min Scan# 1422
Delta R.T. -0.053 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

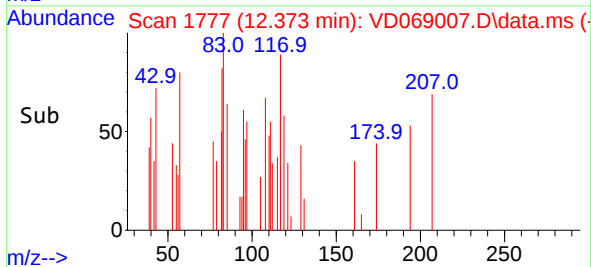
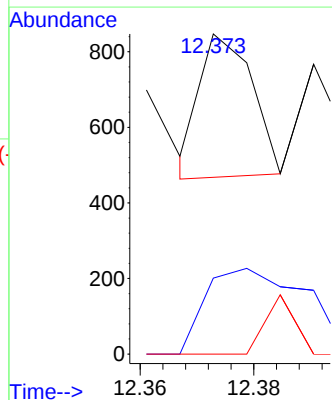
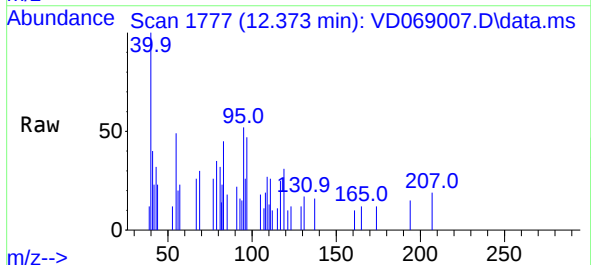
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MSVOA_D
ClientSampleId :
WALL-D-4075-B

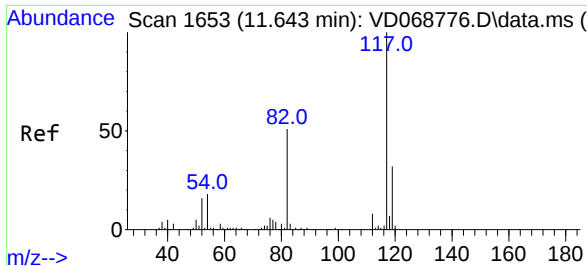
Tgt Ion: 98 Resp: 70
Ion Ratio Lower Upper
98 100
100 0.0 51.8 77.6#



#62
4-Bromofluorobenzene
Concen: 0.00 ug/l
RT: 12.373 min Scan# 1777
Delta R.T. -0.253 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion: 95 Resp: 242
Ion Ratio Lower Upper
95 100
174 112.8 0.0 168.0
176 22.7 0.0 160.2

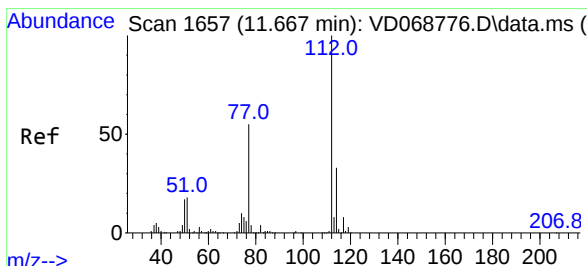
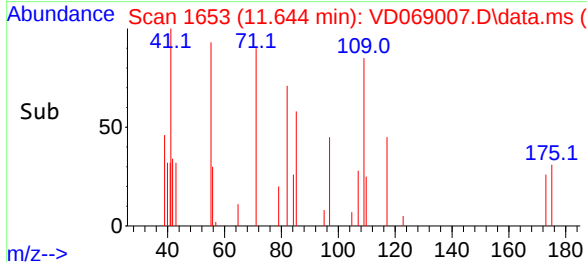
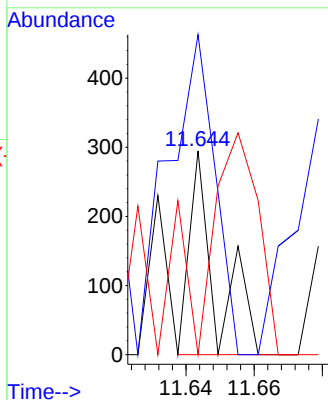
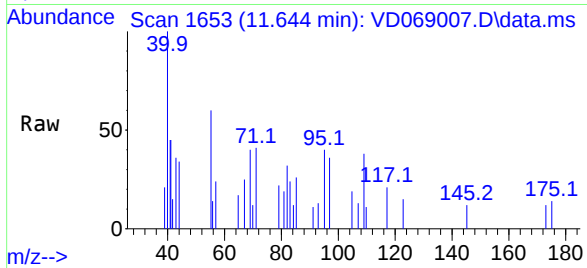




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

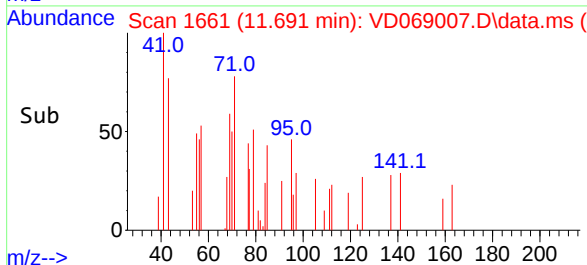
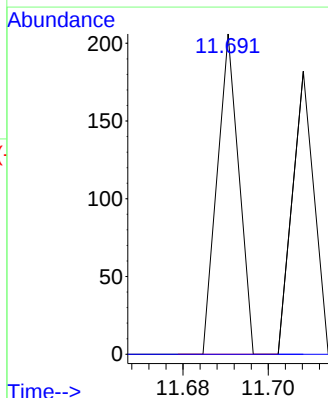
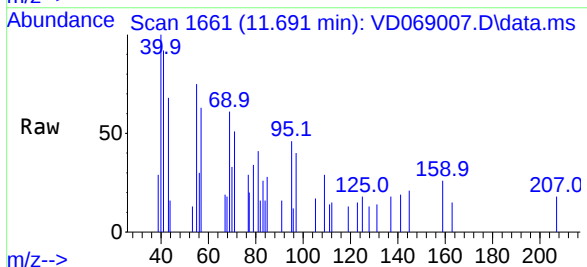
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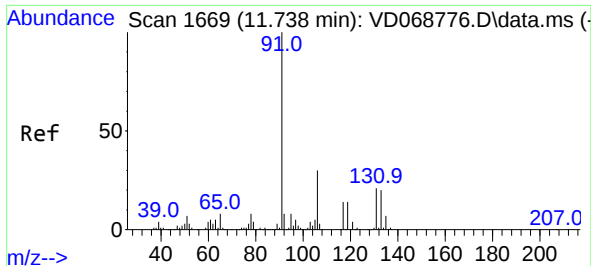
Tgt Ion:	117	Resp:	160
Ion	Ratio	Lower	Upper
117	100		
82	103.7	43.5	65.3#
119	0.0	26.7	40.1#



#65
Chlorobenzene
Concen: 21.08 ug/l
RT: 11.691 min Scan# 1661
Delta R.T. 0.024 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:	112	Resp:	73
Ion	Ratio	Lower	Upper
112	100		
114	0.0	25.2	37.8#

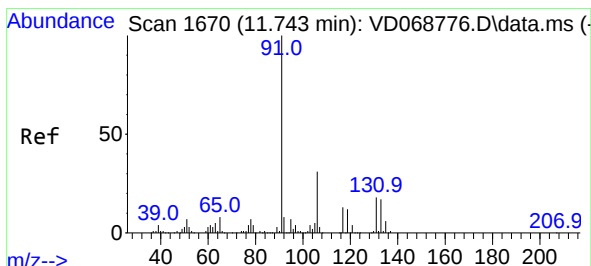
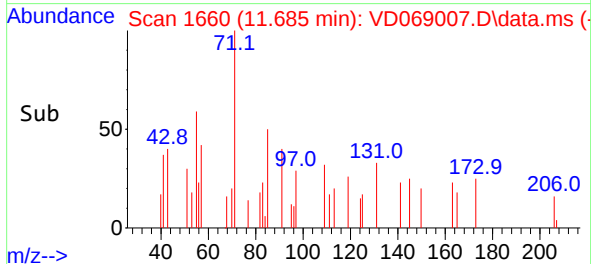
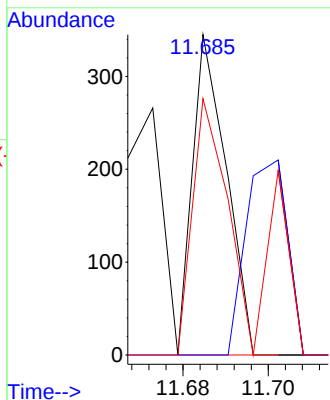
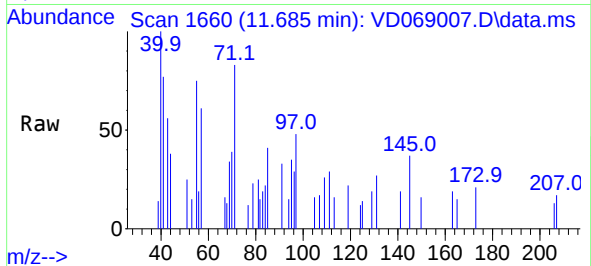




#66
1,1,1,2-Tetrachloroethane
Concen: 151.78 ug/l
RT: 11.685 min Scan# 1660
Delta R.T. -0.053 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

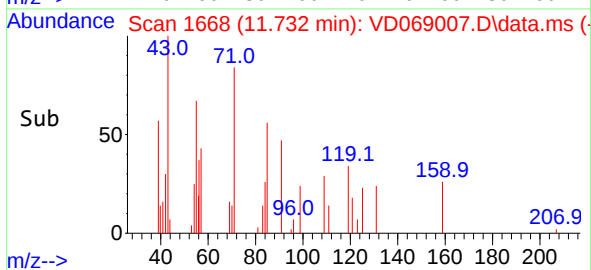
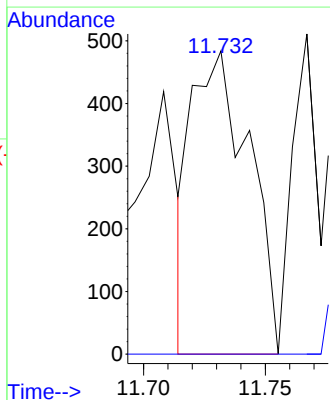
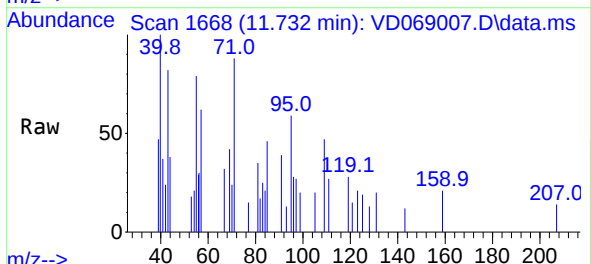
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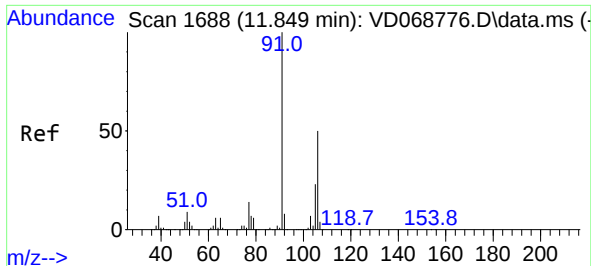
Tgt Ion:131 Resp: 189
Ion Ratio Lower Upper
131 100
133 75.1 47.0 141.2
119 83.1 32.8 98.3



#67
Ethyl Benzene
Concen: 132.55 ug/l
RT: 11.732 min Scan# 1668
Delta R.T. -0.011 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion: 91 Resp: 795
Ion Ratio Lower Upper
91 100
106 0.0 25.1 37.7#

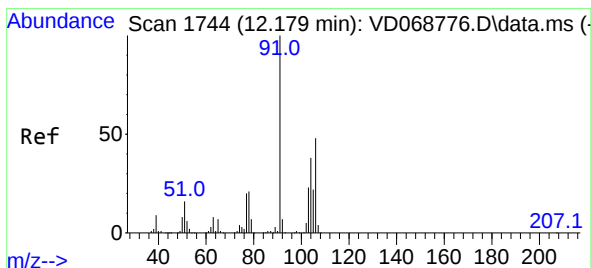
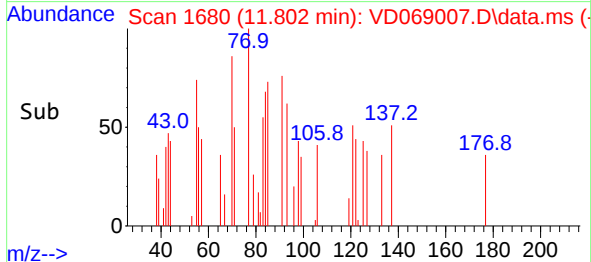
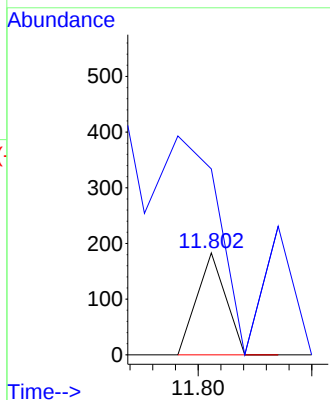
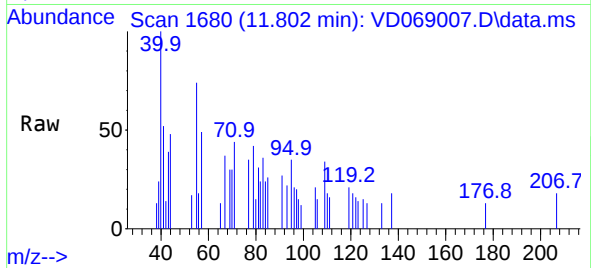




#68
m/p-Xylenes
Concen: 28.09 ug/l
RT: 11.802 min Scan# 1680
Delta R.T. -0.047 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

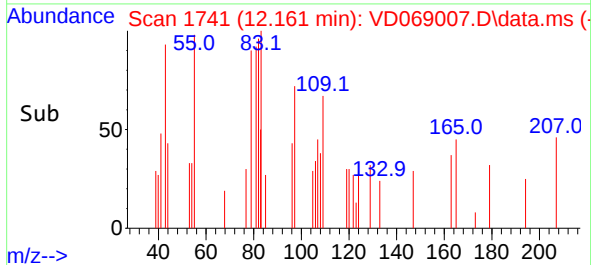
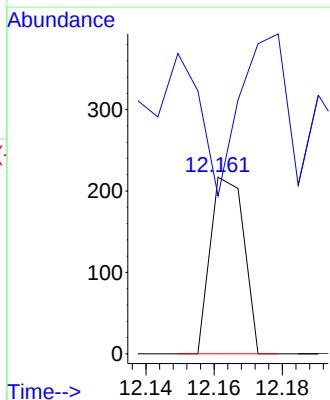
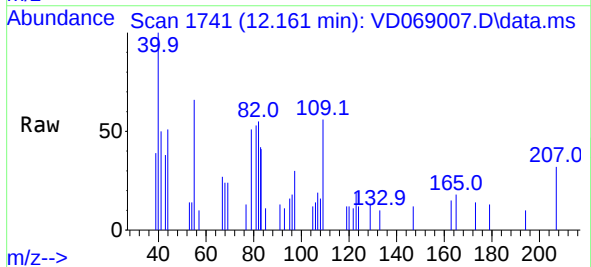
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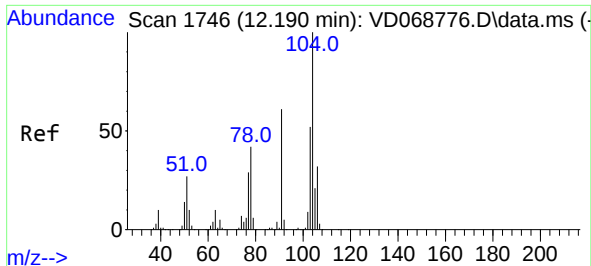
Tgt Ion:106 Resp: 65
Ion Ratio Lower Upper
106 100
91 0.0 158.6 238.0#



#69
o-Xylene
Concen: 70.33 ug/l
RT: 12.161 min Scan# 1741
Delta R.T. -0.018 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:106 Resp: 148
Ion Ratio Lower Upper
106 100
91 123.6 105.0 315.0

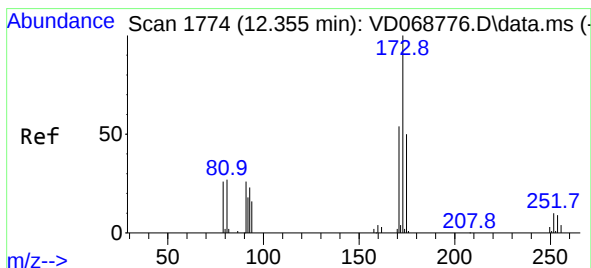
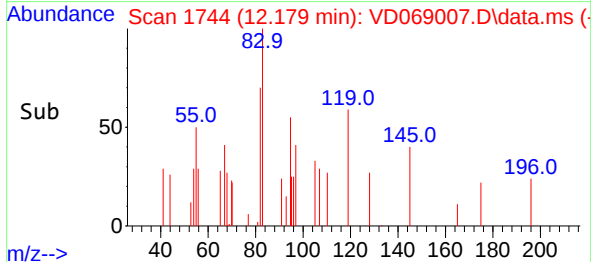
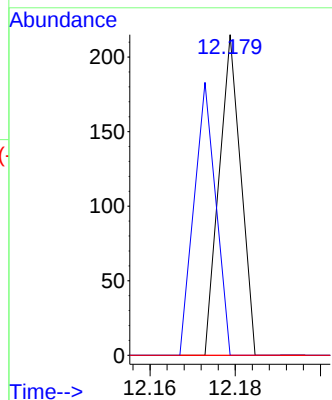
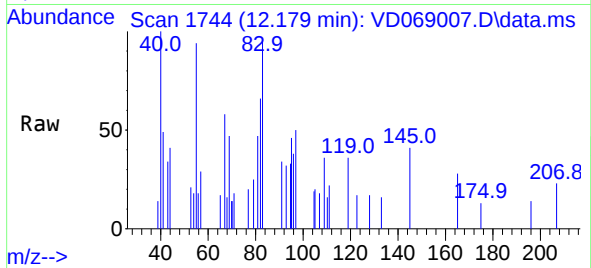




#70
Styrene
Concen: 20.72 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. -0.011 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

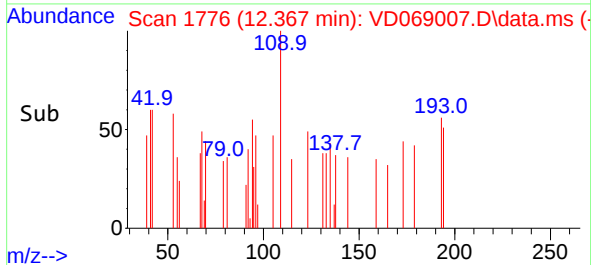
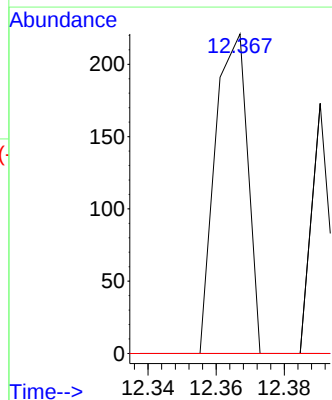
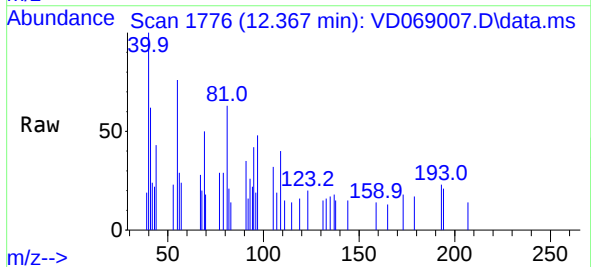
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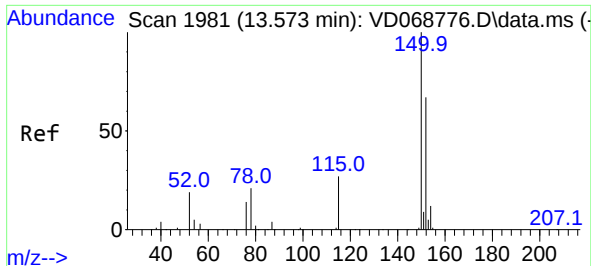
Tgt Ion:104 Resp: 76
Ion Ratio Lower Upper
104 100
78 85.5 36.9 55.3#
103 0.0 44.3 66.5#



#71
Bromoform
Concen: 217.35 ug/l
RT: 12.367 min Scan# 1776
Delta R.T. 0.012 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:173 Resp: 145
Ion Ratio Lower Upper
173 100
175 0.0 23.6 71.0#
254 0.0 0.0 0.0

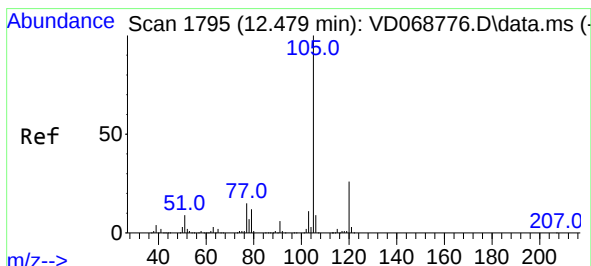
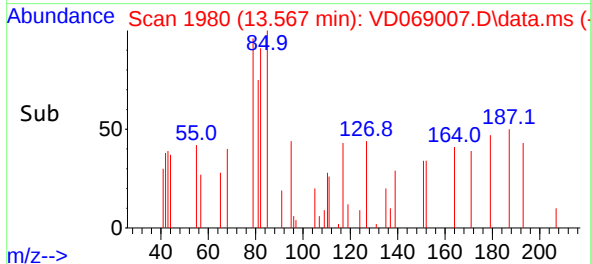
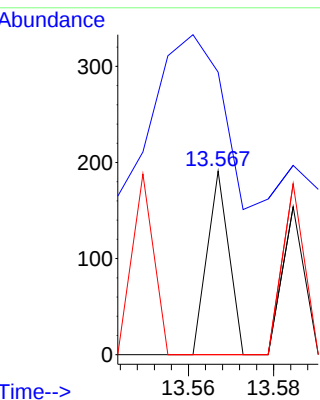
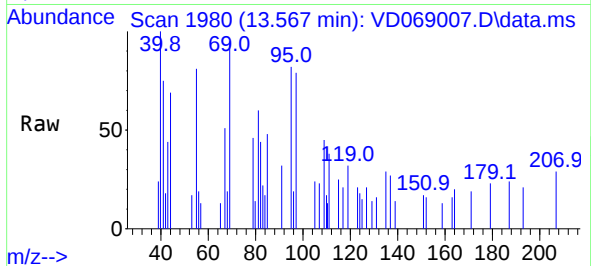




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

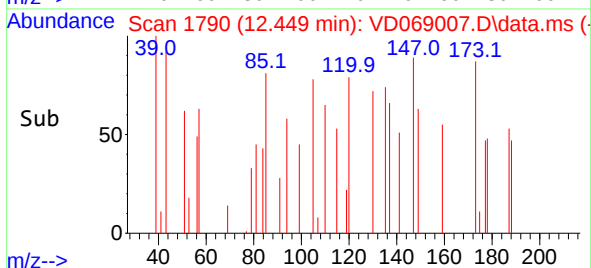
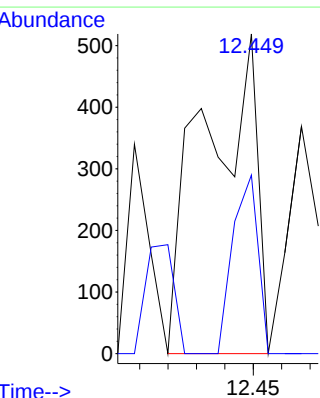
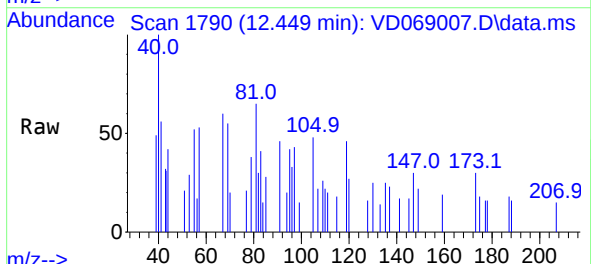
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

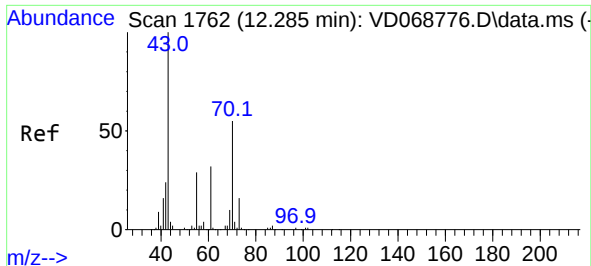
Tgt Ion:152 Resp: 67
Ion Ratio Lower Upper
152 100
115 289.6 29.3 87.8#
150 98.5 0.0 347.6



#73
Isopropylbenzene
Concen: 136.34 ug/l
RT: 12.449 min Scan# 1790
Delta R.T. -0.030 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

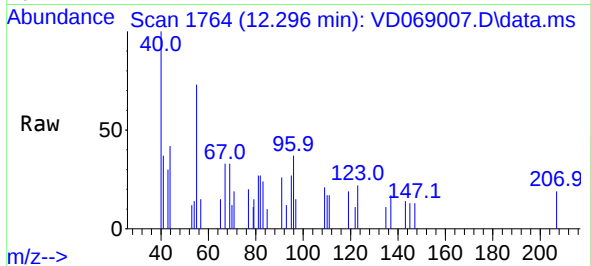
Tgt Ion:105 Resp: 667
Ion Ratio Lower Upper
105 100
120 26.7 13.4 40.2



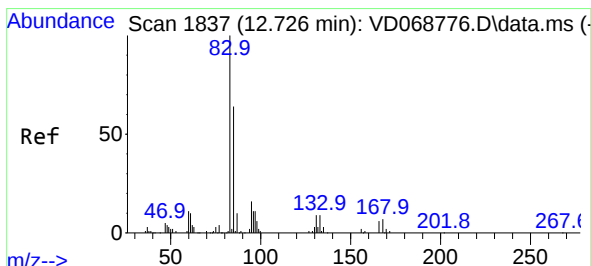
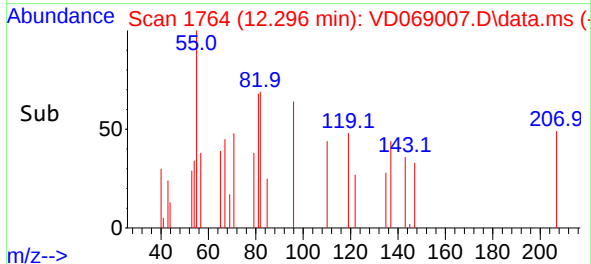
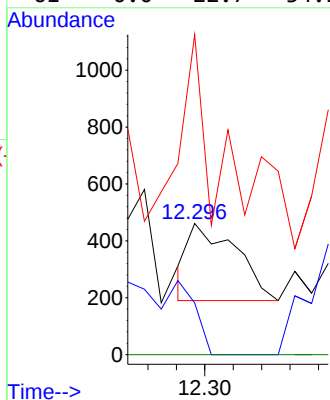


#74
N-amy1 acetate
Concen: 378.48 ug/l
RT: 12.296 min Scan# 1764
Delta R.T. 0.011 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

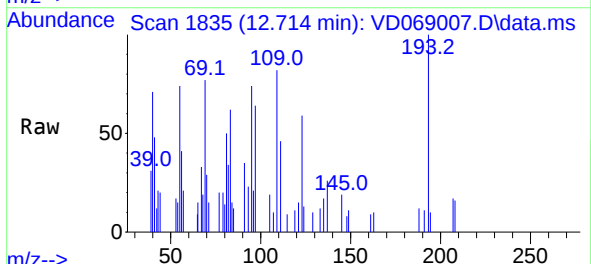
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B



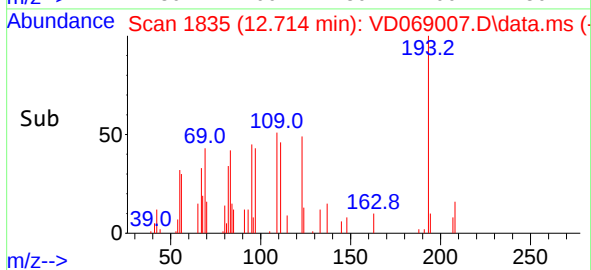
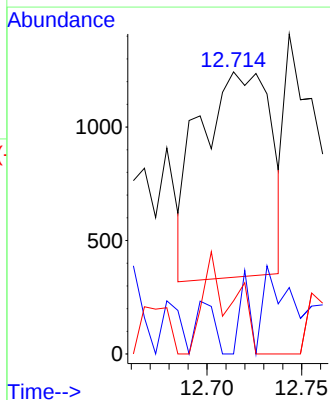
Tgt Ion:	43	Resp:	314
Ion	Ratio	Lower	Upper
43	100		
70	122.3	41.9	62.9#
55	277.7	22.8	34.2#
61	0.0	22.7	34.1#

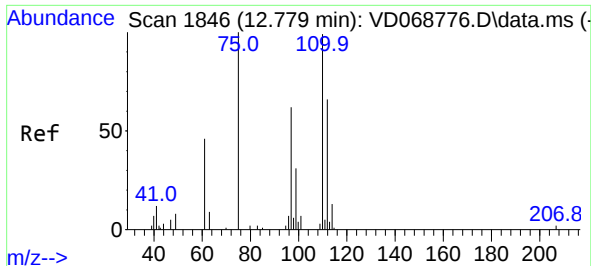


#75
1,1,2,2-Tetrachloroethane
Concen: 2597.37 ug/l
RT: 12.714 min Scan# 1835
Delta R.T. -0.012 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36



Tgt Ion:	83	Resp:	2375
Ion	Ratio	Lower	Upper
83	100		
131	5.5	5.1	15.3
85	0.0	32.0	96.0#

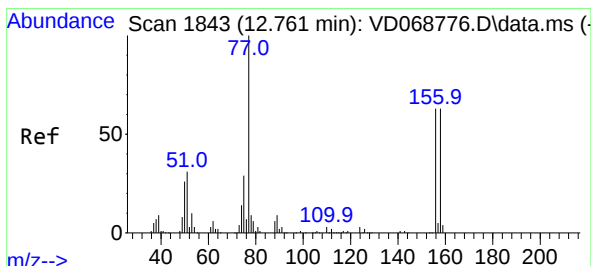
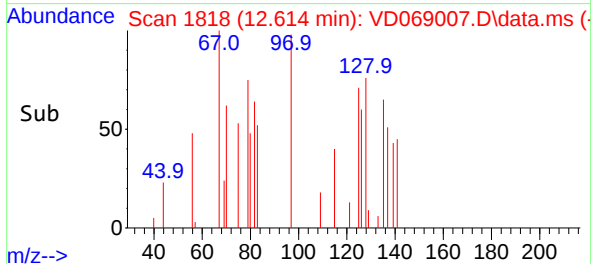
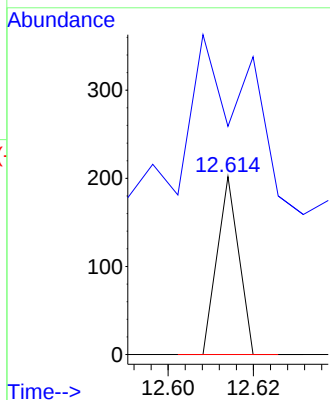
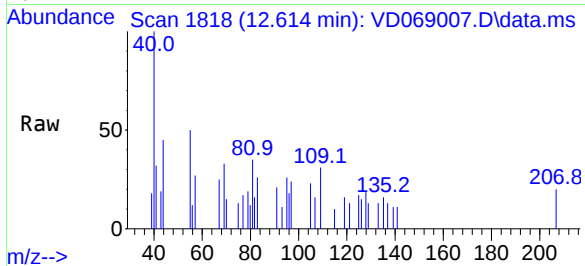




#76
1,2,3-Trichloropropane
Concen: 116.00 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.165 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

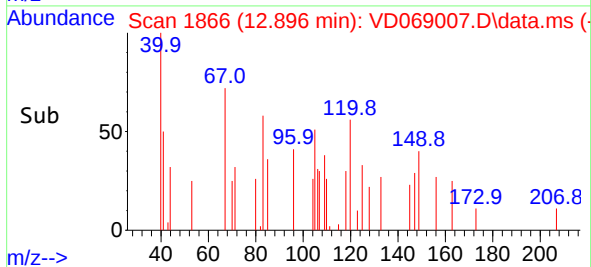
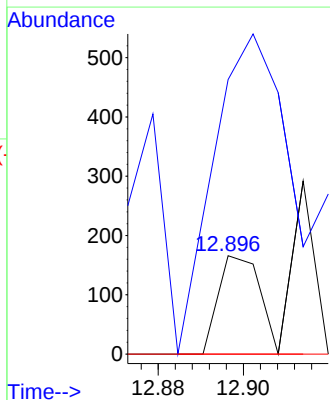
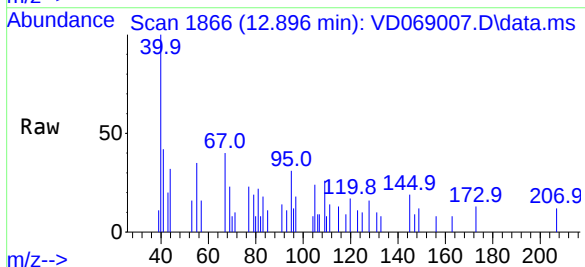
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

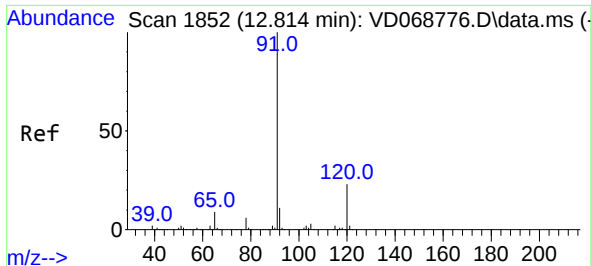
Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
77 333.8 0.0 0.0#



#77
Bromobenzene
Concen: 95.23 ug/l
RT: 12.896 min Scan# 1866
Delta R.T. 0.135 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:156 Resp: 112
Ion Ratio Lower Upper
156 100
77 585.7 88.9 266.8#
158 0.0 47.7 143.1#

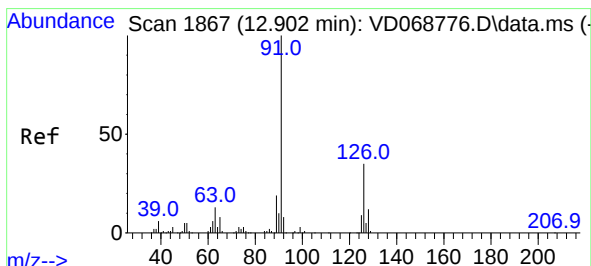
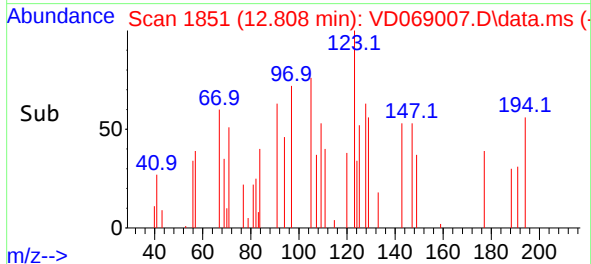
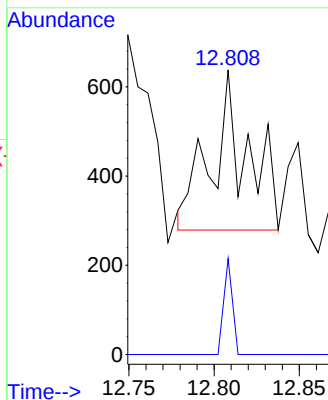
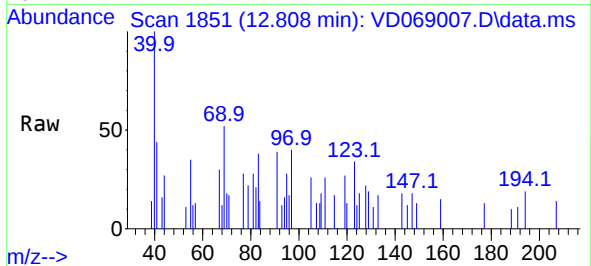




#78
n-propylbenzene
Concen: 87.51 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

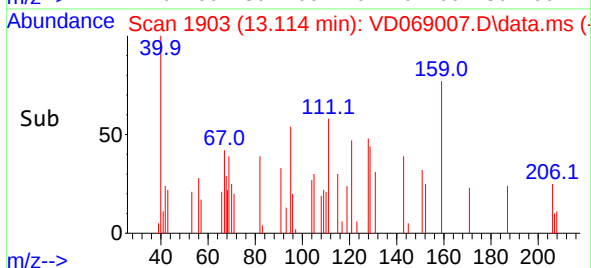
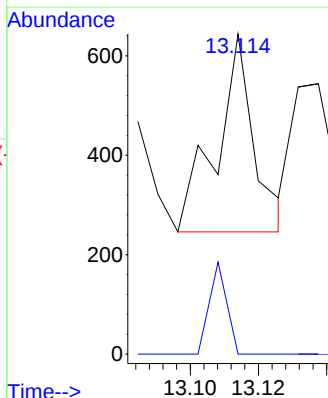
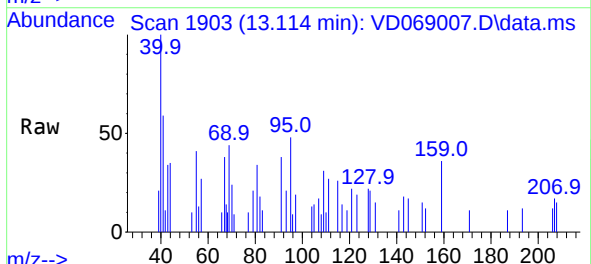
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

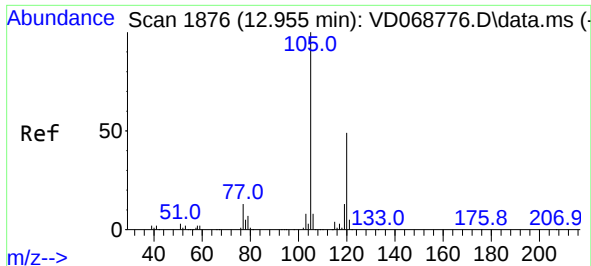
Tgt Ion: 91 Resp: 520
Ion Ratio Lower Upper
91 100
120 14.6 11.4 34.2



#79
2-Chlorotoluene
Concen: 91.29 ug/l
RT: 13.114 min Scan# 1903
Delta R.T. 0.212 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion: 91 Resp: 303
Ion Ratio Lower Upper
91 100
126 21.5 17.1 51.3

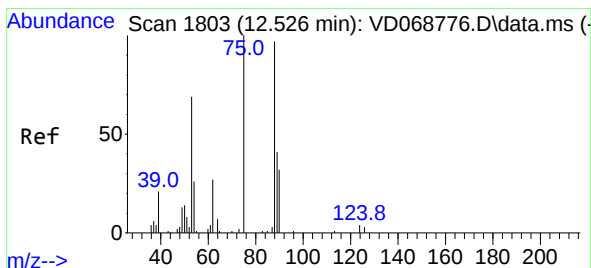
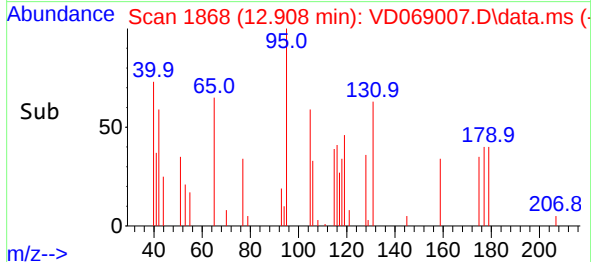
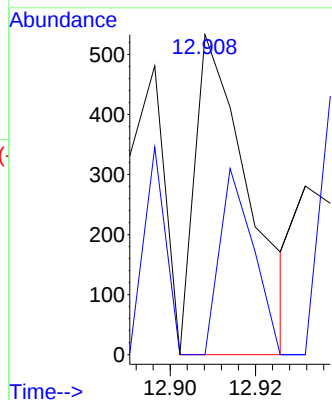
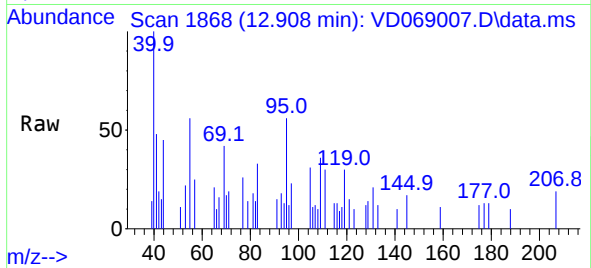




#80
1,3,5-Trimethylbenzene
Concen: 114.67 ug/l
RT: 12.908 min Scan# 1868
Delta R.T. -0.047 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

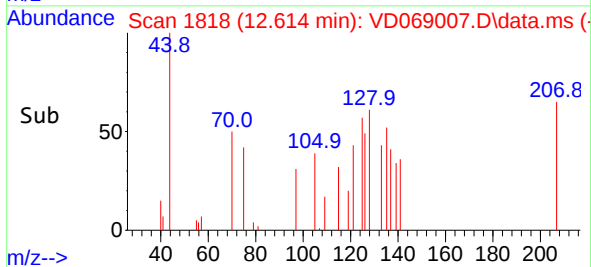
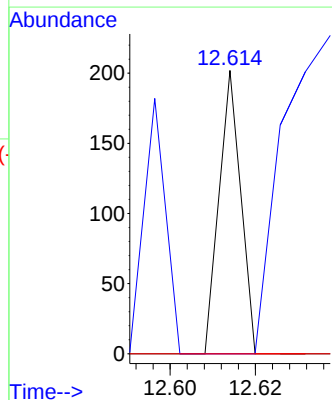
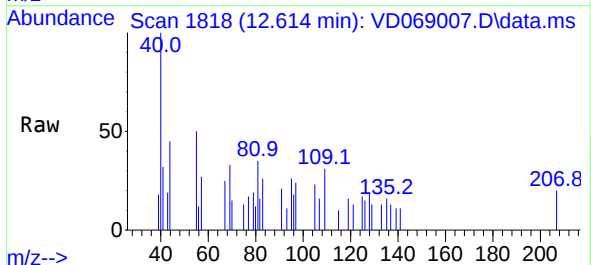
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

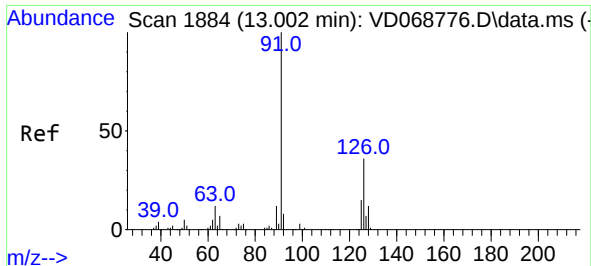
Tgt Ion:105 Resp: 469
Ion Ratio Lower Upper
105 100
120 36.2 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 269.20 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. 0.088 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
53 90.1 66.8 100.2
89 0.0 36.6 54.8#

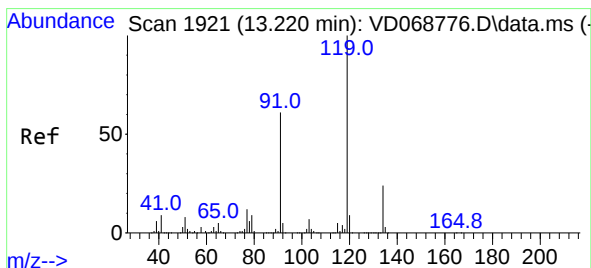
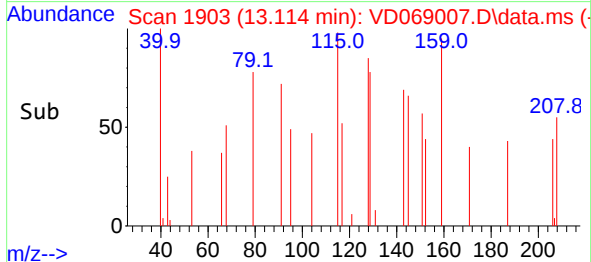
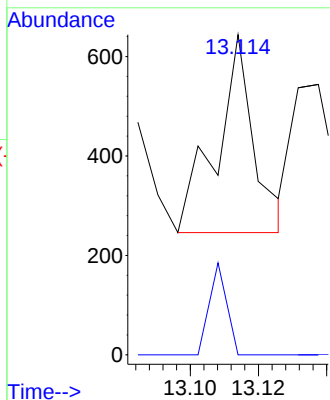
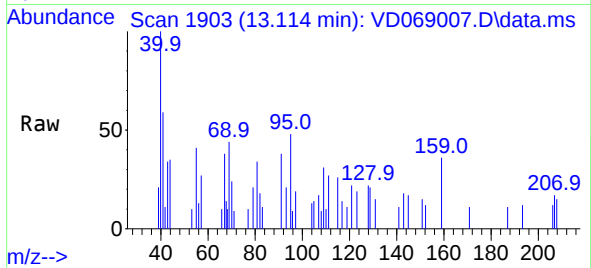




#82
4-Chlorotoluene
Concen: 86.12 ug/l
RT: 13.114 min Scan# 1903
Delta R.T. 0.112 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

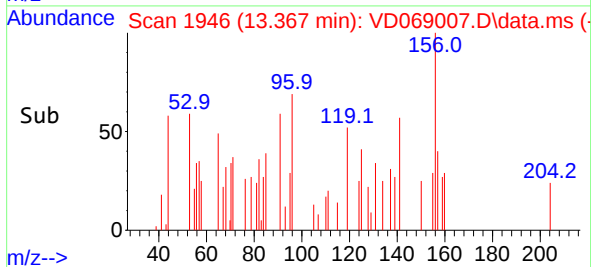
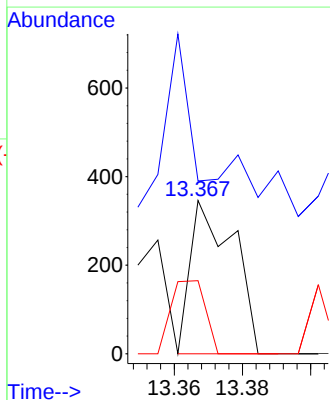
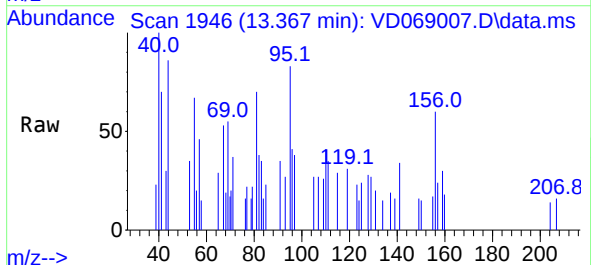
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

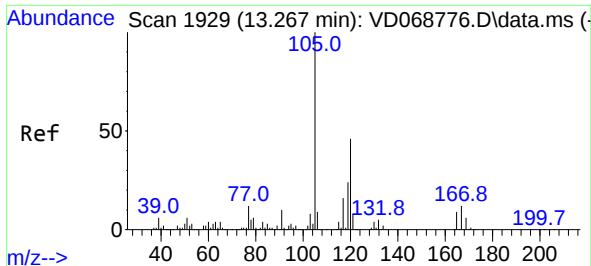
Tgt Ion: 91 Resp: 303
Ion Ratio Lower Upper
91 100
126 21.5 17.2 51.5



#83
tert-Butylbenzene
Concen: 88.17 ug/l
RT: 13.367 min Scan# 1946
Delta R.T. 0.147 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion: 119 Resp: 306
Ion Ratio Lower Upper
119 100
91 88.9 31.6 95.0
134 37.9 13.4 40.2

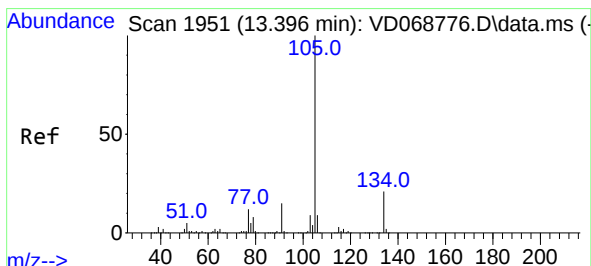
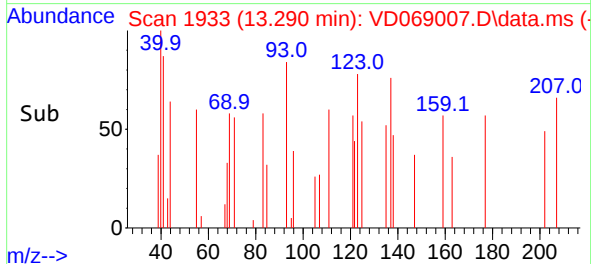
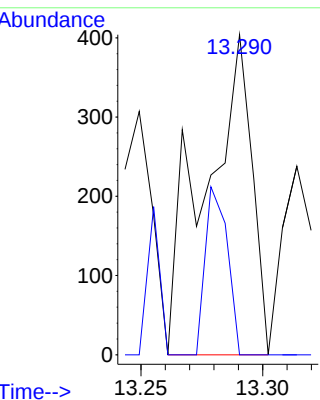
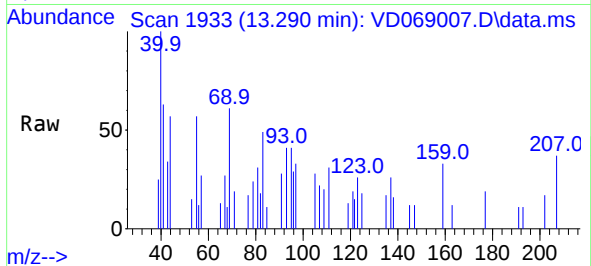




#84
1,2,4-Trimethylbenzene
Concen: 131.70 ug/l
RT: 13.290 min Scan# 1933
Delta R.T. 0.023 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

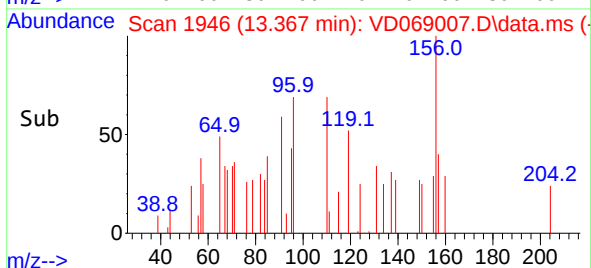
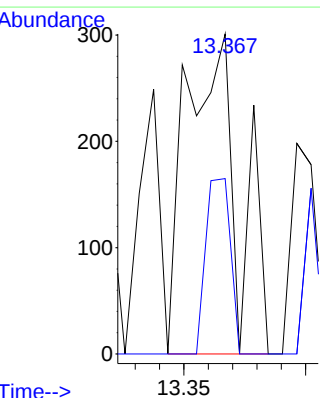
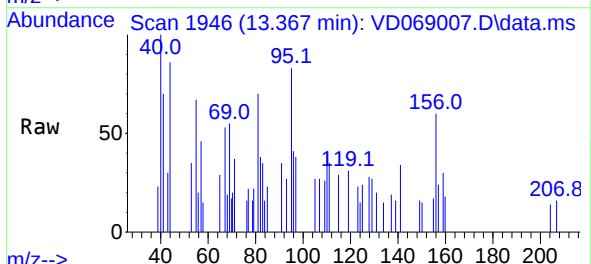
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

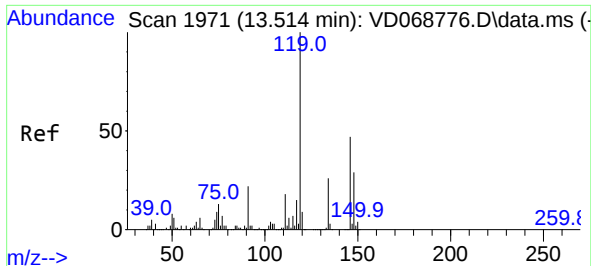
Tgt Ion:105 Resp: 544
Ion Ratio Lower Upper
105 100
120 24.4 22.6 67.7



#85
sec-Butylbenzene
Concen: 92.10 ug/l
RT: 13.367 min Scan# 1946
Delta R.T. -0.029 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:105 Resp: 451
Ion Ratio Lower Upper
105 100
134 25.7 10.0 29.8

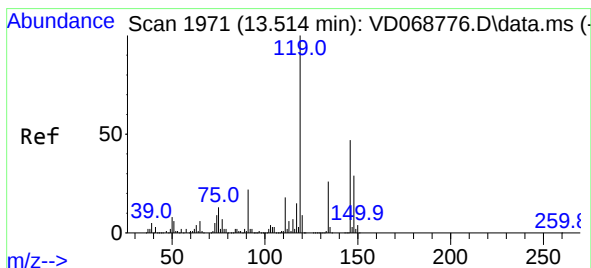
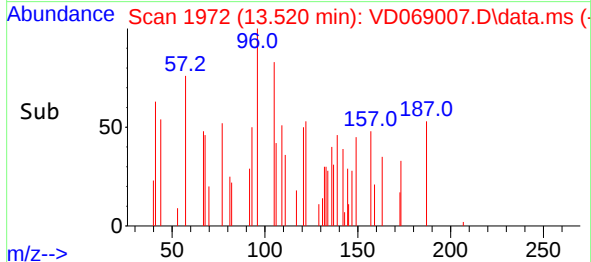
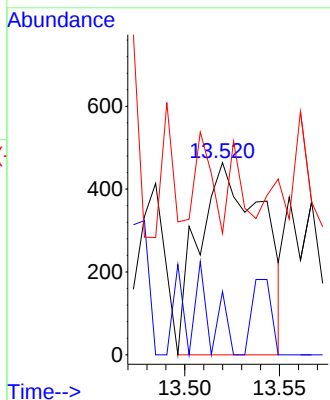
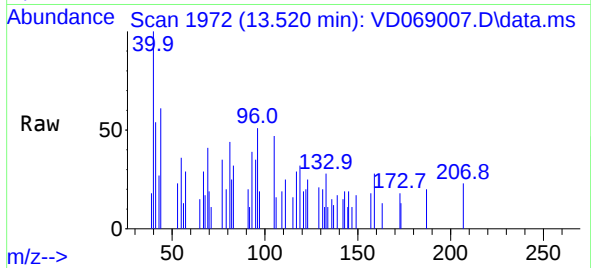




#86
p-Isopropyltoluene
Concen: 243.47 ug/l
RT: 13.520 min Scan# 1972
Delta R.T. 0.006 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

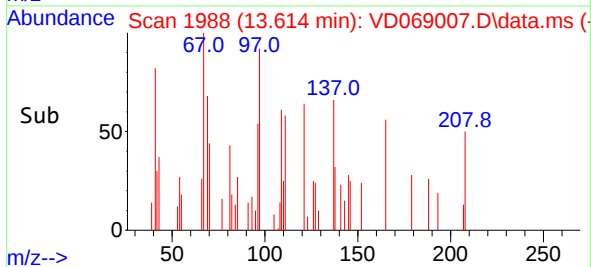
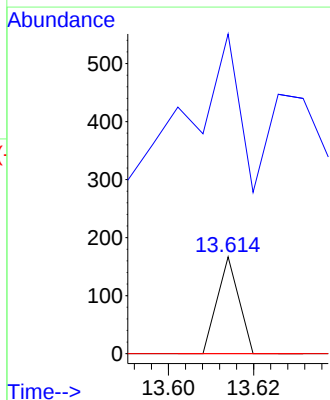
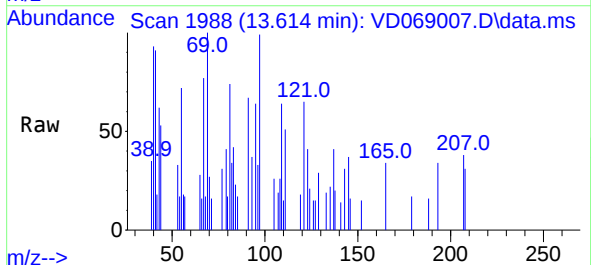
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

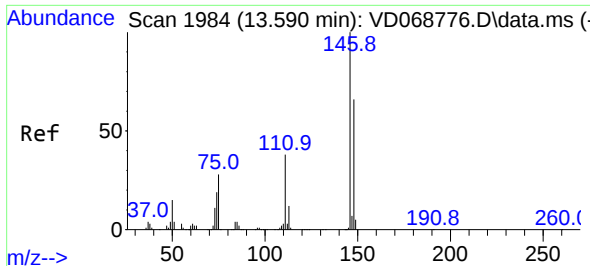
Tgt Ion:119 Resp: 1089
Ion Ratio Lower Upper
119 100
134 0.0 13.3 39.9#
91 12.9 11.1 33.1



#87
1,3-Dichlorobenzene
Concen: 25.32 ug/l
RT: 13.614 min Scan# 1988
Delta R.T. 0.100 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:146 Resp: 59
Ion Ratio Lower Upper
146 100
111 745.8 19.3 57.8#
148 0.0 30.9 92.8#

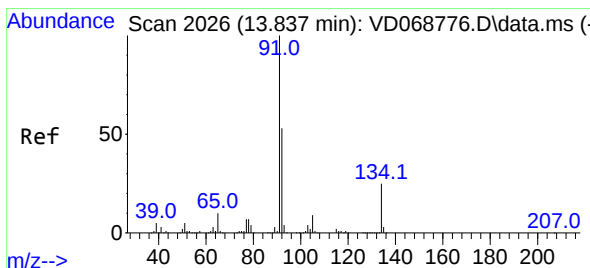
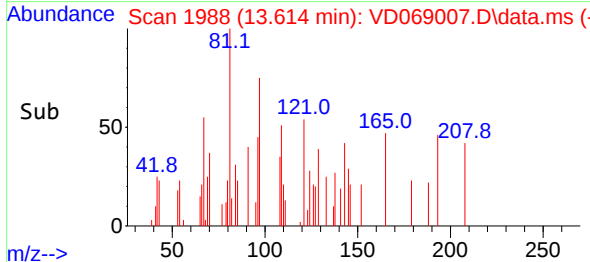
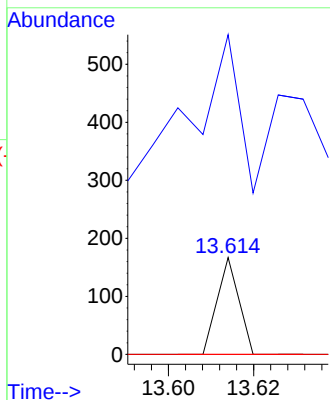
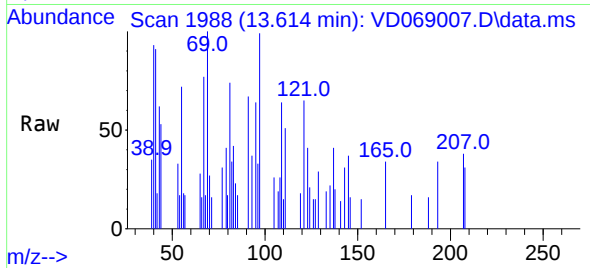




#88
1,4-Dichlorobenzene
Concen: 25.59 ug/l
RT: 13.614 min Scan# 1988
Delta R.T. 0.024 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

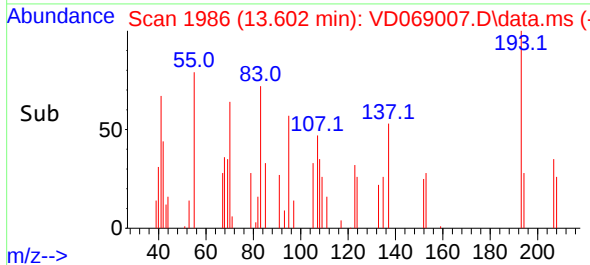
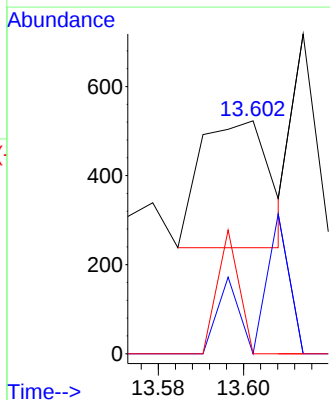
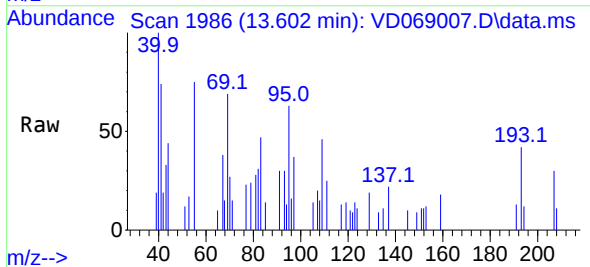
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

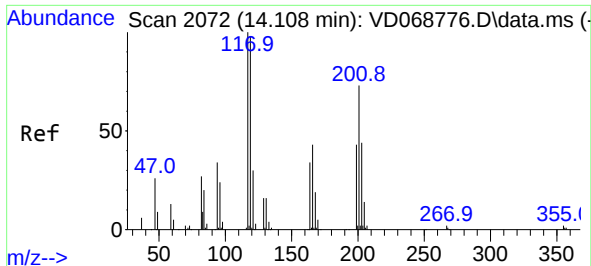
Tgt Ion:	146	Resp:	59
Ion	Ratio	Lower	Upper
146	100		
111	745.8	19.1	57.1#
148	0.0	31.6	95.0#



#89
n-Butylbenzene
Concen: 76.67 ug/l
RT: 13.602 min Scan# 1986
Delta R.T. -0.235 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:	91	Resp:	323
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.7	80.1
134	30.3	12.9	38.6

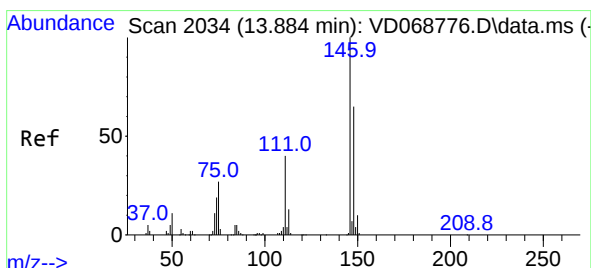
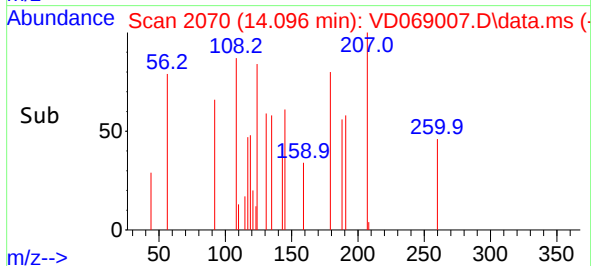
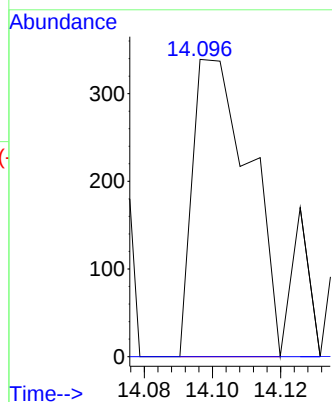
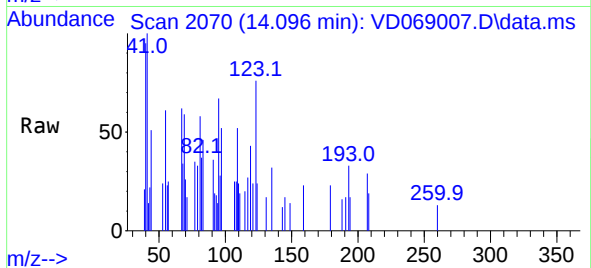




#90
Hexachloroethane
Concen: 443.37 ug/l
RT: 14.096 min Scan# 2070
Delta R.T. -0.012 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

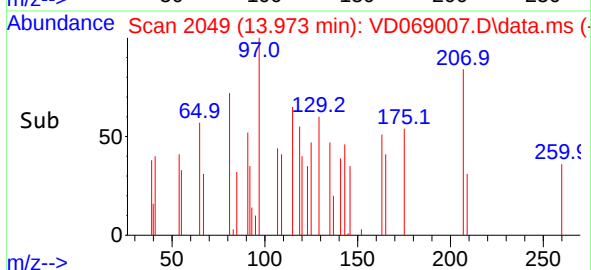
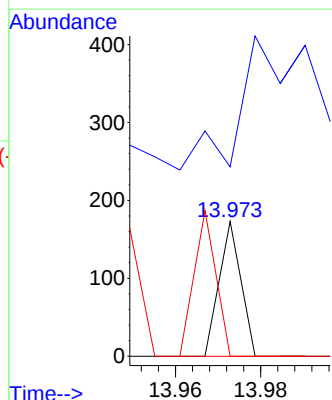
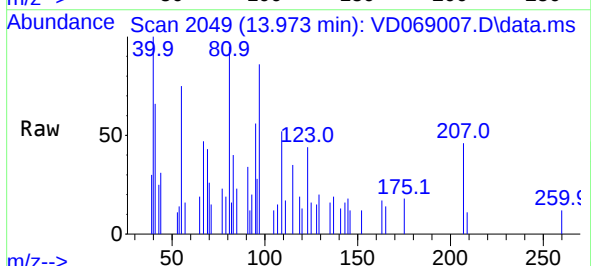
Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

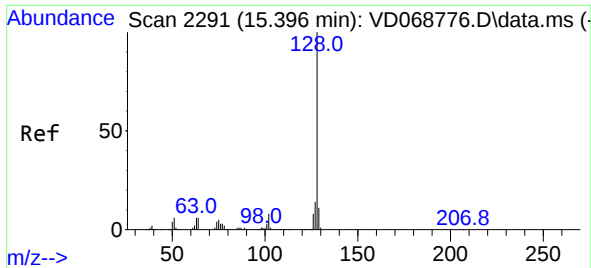
Tgt Ion:117 Resp: 395
Ion Ratio Lower Upper
117 100
201 0.0 35.4 106.2#



#91
1,2-Dichlorobenzene
Concen: 30.25 ug/l
RT: 13.973 min Scan# 2049
Delta R.T. 0.089 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Tgt Ion:146 Resp: 61
Ion Ratio Lower Upper
146 100
111 1152.5 20.3 60.9#
148 108.2 32.2 96.6#





#95
Naphthalene
Concen: 102.15 ug/l
RT: 15.367 min Scan# 2286
Delta R.T. -0.029 min
Lab File: VD069007.D
Acq: 28 Apr 2021 16:36

Instrument :
MSVOA_D
ClientSampleId :
WALL-D-4075-B

Tgt Ion:	128	Resp:	222
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	102.7	8.9	13.3#

