

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102621\
 Data File : VD070841.D
 Acq On : 26 Oct 2021 15:38
 Operator : VA/SY
 Sample : M4357-01
 Misc : 5.08G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 27 06:21:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D102621S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 27 05:34:47 2021
 Response via : Initial Calibration

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

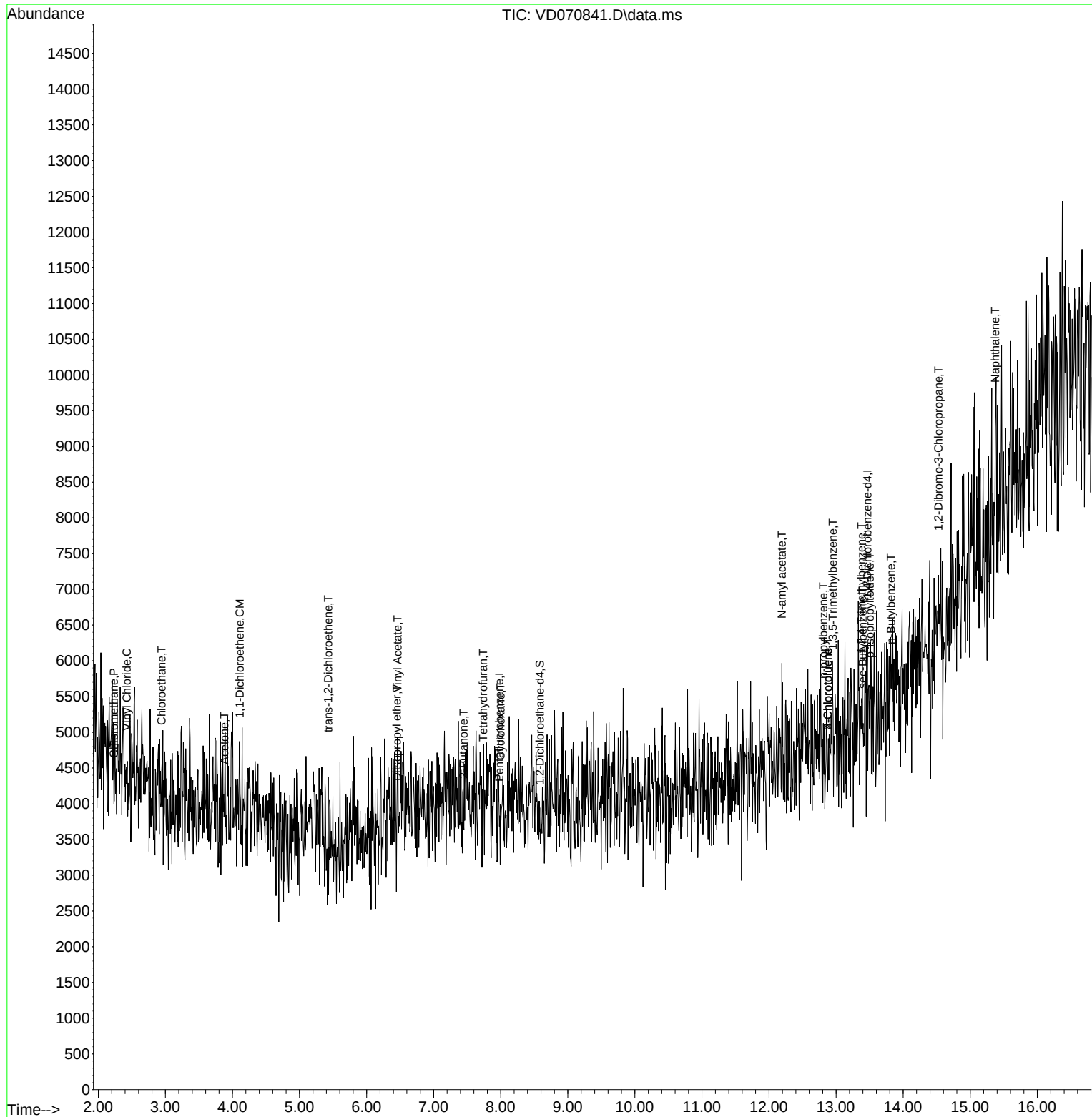
Internal Standards						
1) Pentafluorobenzene	7.979	168	56	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/l	-8.86
63) Chlorobenzene-d5	0.000	117	0	0.000	ug/l	-11.64
72) 1,4-Dichlorobenzene-d4	13.467	152	60	50.000	ug/l	#-0.09
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.585	65	53	94.102	ug/l	0.26
Spiked Amount	50.000	Range	50 - 163	Recovery	= 188.200%#	
35) Dibromofluoromethane	0.000	113	0	0.000	ug/l	
Spiked Amount	50.000	Range	54 - 147	Recovery	= 0.000%#	
50) Toluene-d8	10.338	98	123	0.000	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 0.000%#	
62) 4-Bromofluorobenzene	12.626	95	76	0.000	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 0.000%#	
Target Compounds						Qvalue
3) Chloromethane	2.232	50	150	204.066	ug/l	# 42
4) Vinyl Chloride	2.426	62	63	77.478	ug/l	# 42
6) Chloroethane	2.944	64	59	117.443	ug/l	# 39
12) 1,1-Dichloroethene	4.109	96	124	219.450	ug/l	# 1
16) Acetone	3.879	43	55	419.737	ug/l	# 40
21) trans-1,2-Dichloroethene	5.426	96	71	106.036	ug/l	# 1
22) Diisopropyl ether	6.450	45	60	32.687	ug/l	# 40
23) Vinyl Acetate	6.462	43	56	71.332	ug/l	# 72
25) 2-Butanone	7.444	43	149	923.863	ug/l	# 45
29) Tetrahydrofuran	7.738	42	56	574.739	ug/l	# 34
31) Cyclohexane	7.997	56	66	57.509	ug/l	# 19
74) N-amyl acetate	12.191	43	63	71.577	ug/l	# 40
78) n-propylbenzene	12.808	91	61	11.875	ug/l	# 54
79) 2-Chlorotoluene	12.879	91	54	18.105	ug/l	# 42
80) 1,3,5-Trimethylbenzene	12.949	105	120	35.330	ug/l	# 28
82) 4-Chlorotoluene	12.879	91	54	17.421	ug/l	# 42
84) 1,2,4-Trimethylbenzene	13.379	105	122	36.431	ug/l	# 31
85) sec-Butylbenzene	13.396	105	96	21.491	ug/l	# 57
86) p-Isopropyltoluene	13.502	119	143	39.791	ug/l	# 51
89) n-Butylbenzene	13.820	91	138	39.191	ug/l	# 32
92) 1,2-Dibromo-3-Chloropr...	14.526	75	58	487.483	ug/l	# 4
95) Naphthalene	15.373	128	330	164.802	ug/l	# 69

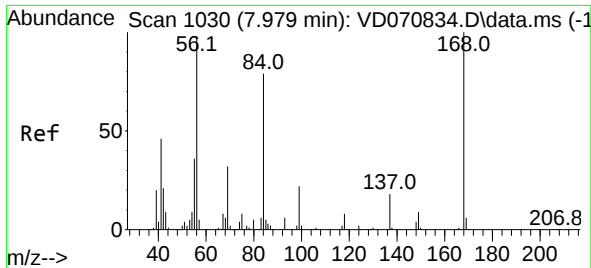
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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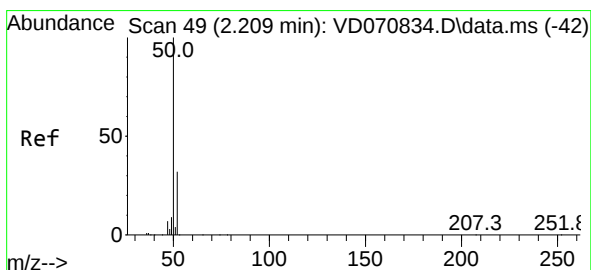
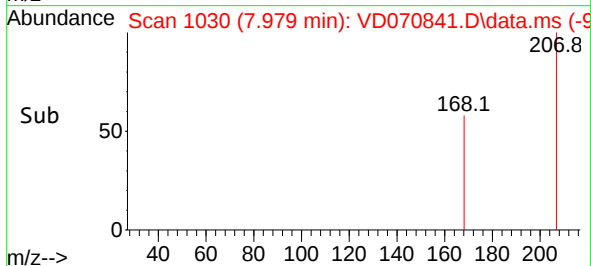
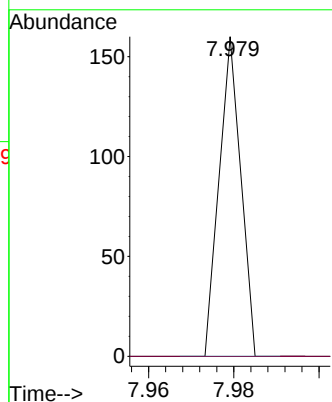
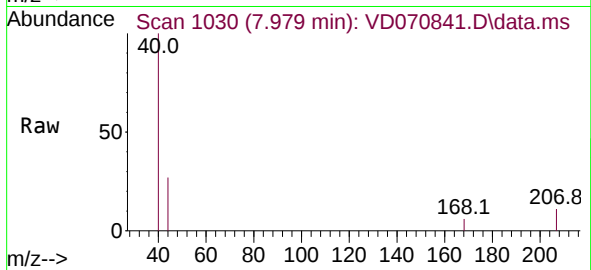




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

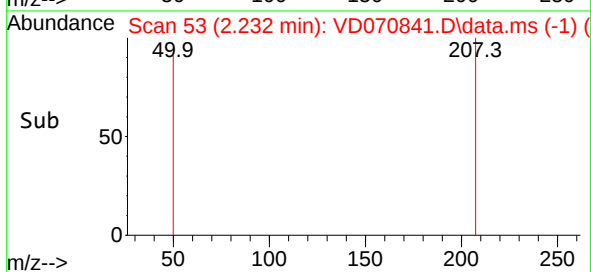
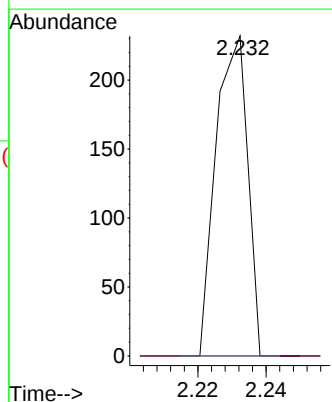
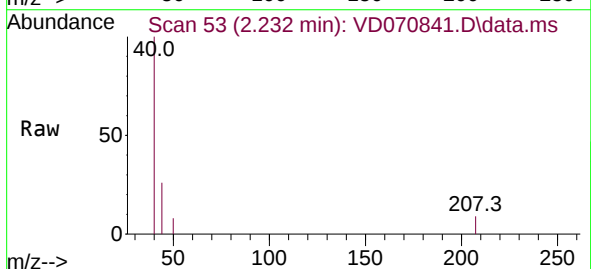
Instrument :
MSVOA_D
ClientSampleId :

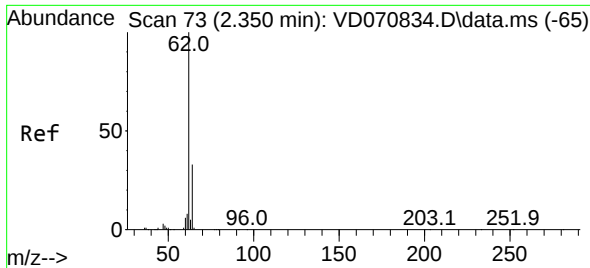
Tgt Ion:168 Resp: 56
Ion Ratio Lower Upper
168 100
99 0.0 46.6 69.8#



#3
Chloromethane
Concen: 204.066 ug/l
RT: 2.232 min Scan# 53
Delta R.T. 0.024 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

Tgt Ion: 50 Resp: 150
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

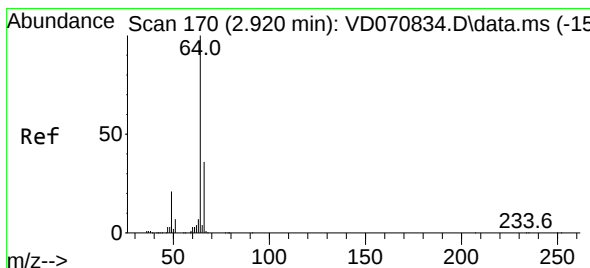
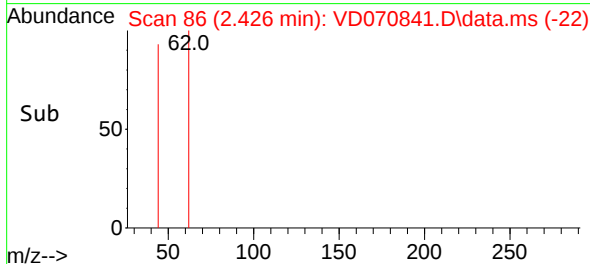
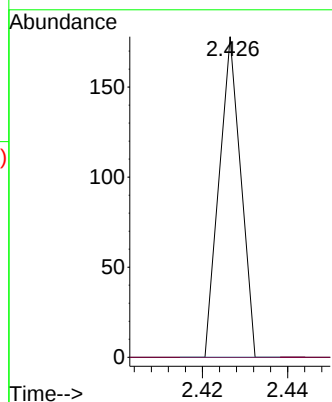
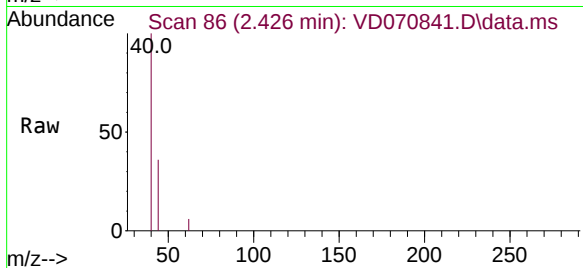




#4
 Vinyl Chloride
 Concen: 77.478 ug/l
 RT: 2.426 min Scan# 80
 Delta R.T. 0.077 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

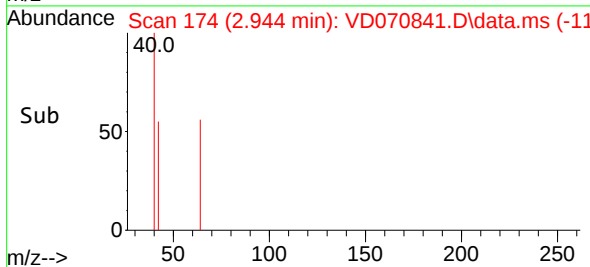
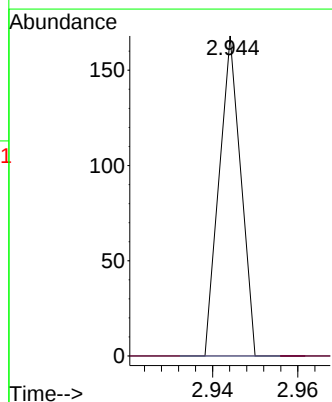
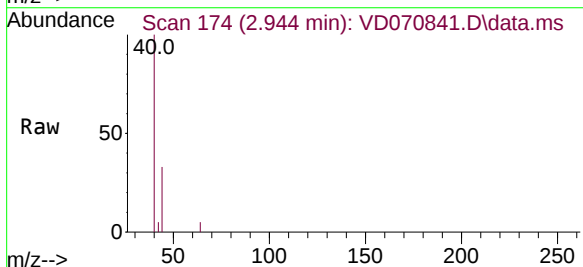
Instrument :
 MSVOA_D
 ClientSampleId :

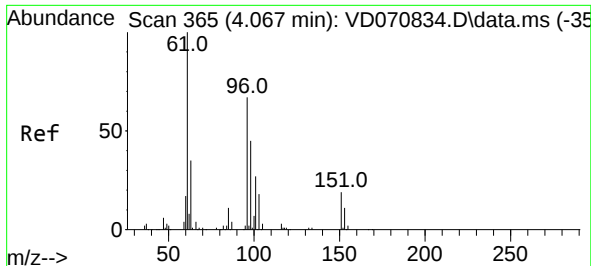
Tgt Ion: 62 Resp: 63
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.0 39.0#



#6
 Chloroethane
 Concen: 117.443 ug/l
 RT: 2.944 min Scan# 174
 Delta R.T. 0.024 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

Tgt Ion: 64 Resp: 59
 Ion Ratio Lower Upper
 64 100
 66 0.0 29.0 43.4#





#12

1,1-Dichloroethene

Concen: 219.450 ug/l

RT: 4.109 min Scan# 31

Delta R.T. 0.041 min

Lab File: VD070841.D

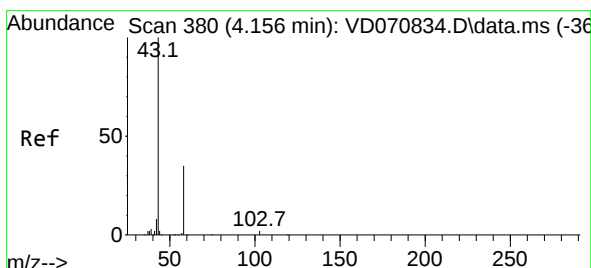
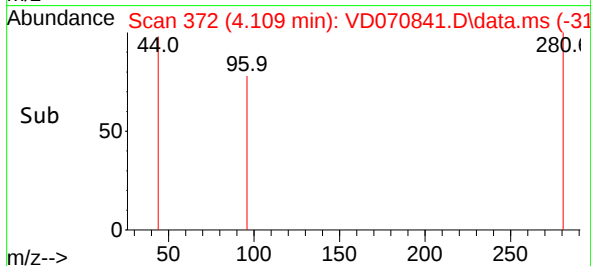
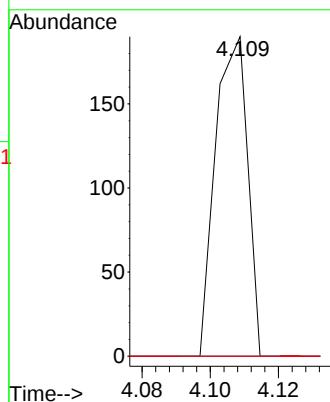
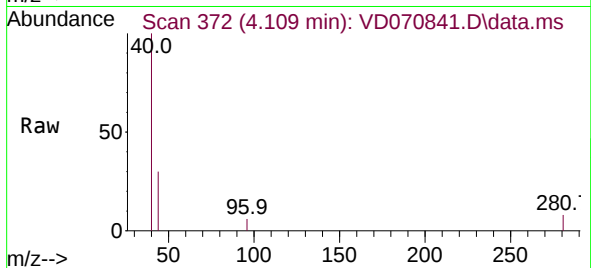
Acq: 26 Oct 2021 15:38

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 96	Resp:	124
Ion	Ratio	Lower Upper
96	100	
61	0.0	120.3 180.5#
98	0.0	54.4 81.6#



#16

Acetone

Concen: 419.737 ug/l

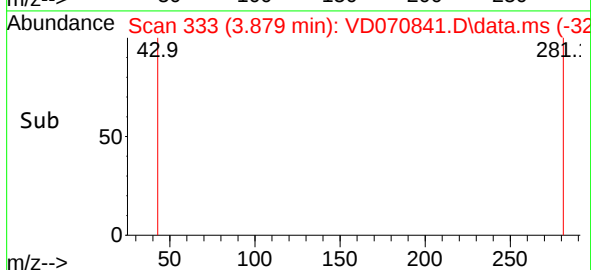
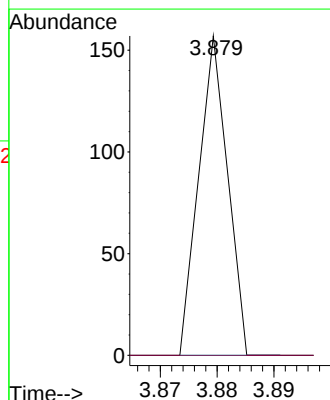
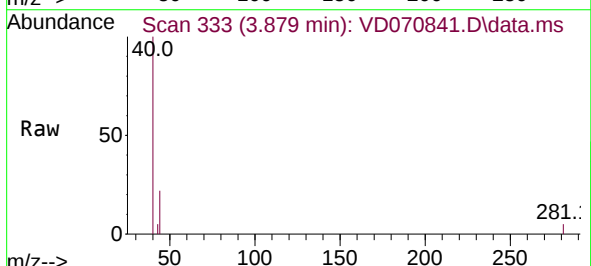
RT: 3.879 min Scan# 333

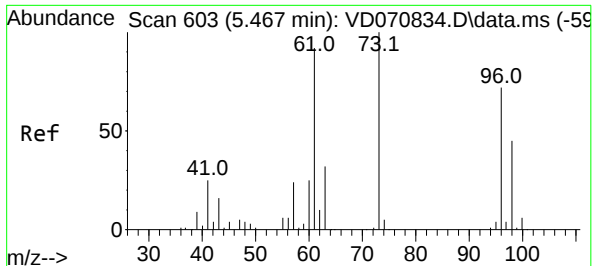
Delta R.T. -0.276 min

Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

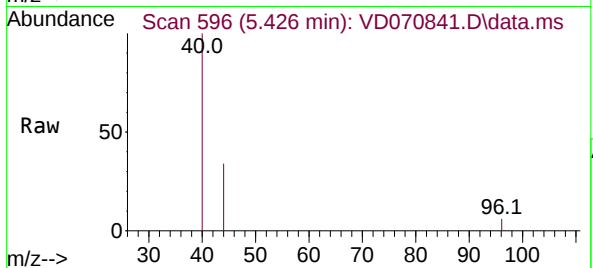
Tgt Ion: 43	Resp:	55
Ion	Ratio	Lower Upper
43	100	
58	0.0	27.8 41.8#



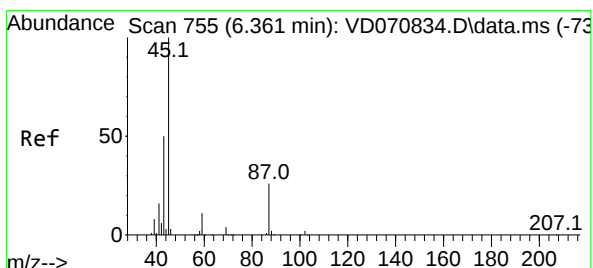
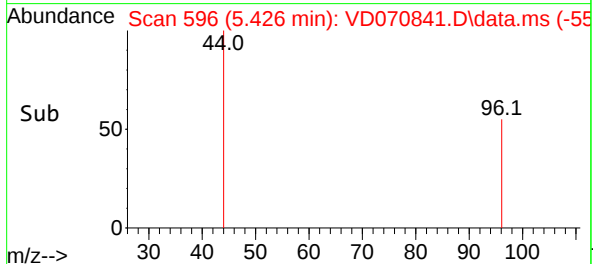
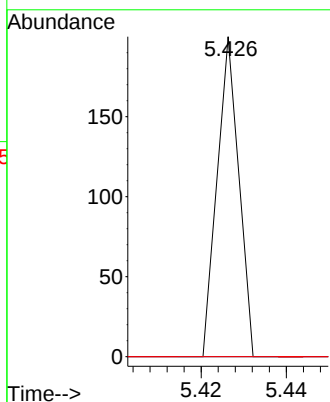


#21
trans-1,2-Dichloroethene
Concen: 106.036 ug/l
RT: 5.426 min Scan# 596
Delta R.T. -0.041 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

Instrument :
MSVOA_D
ClientSampleId :

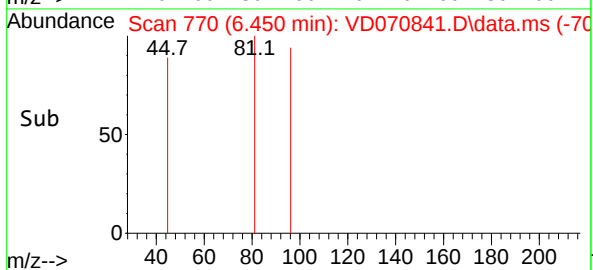
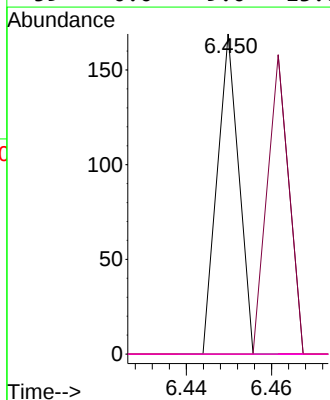
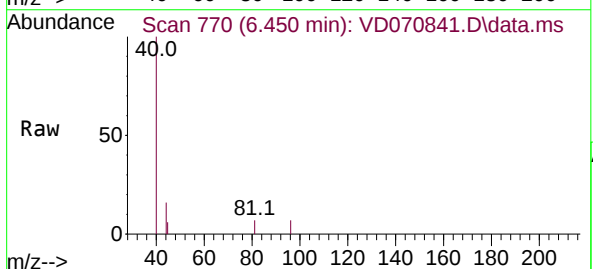


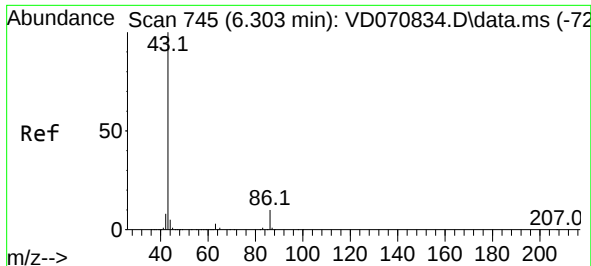
Tgt Ion: 96 Resp: 71
Ion Ratio Lower Upper
96 100
61 0.0 102.1 153.1#
98 0.0 50.1 75.1#



#22
Diisopropyl ether
Concen: 32.687 ug/l
RT: 6.450 min Scan# 770
Delta R.T. 0.088 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

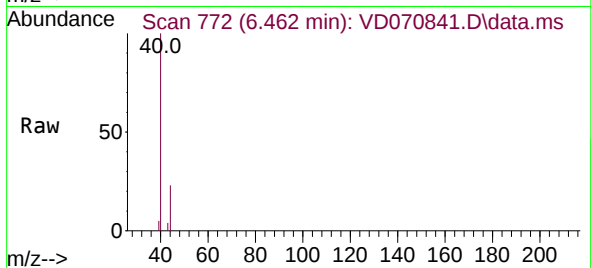
Tgt Ion: 45 Resp: 60
Ion Ratio Lower Upper
45 100
43 0.0 39.6 59.4#
87 0.0 21.2 31.8#
59 0.0 9.0 13.6#



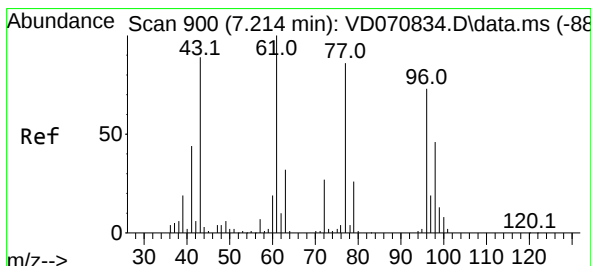
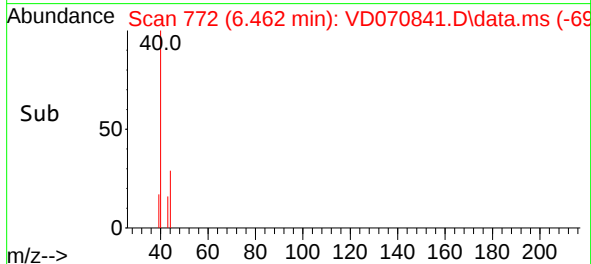
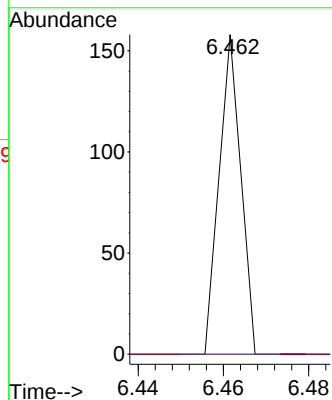


#23
 Vinyl Acetate
 Concen: 71.332 ug/l
 RT: 6.462 min Scan# 71
 Delta R.T. 0.159 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

Instrument :
 MSVOA_D
 ClientSampleId :

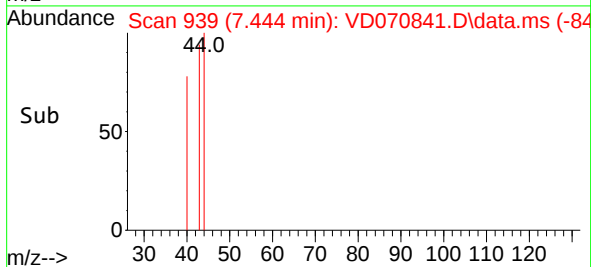
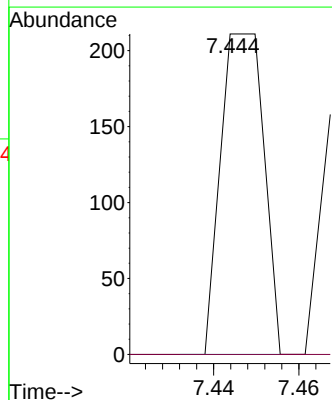
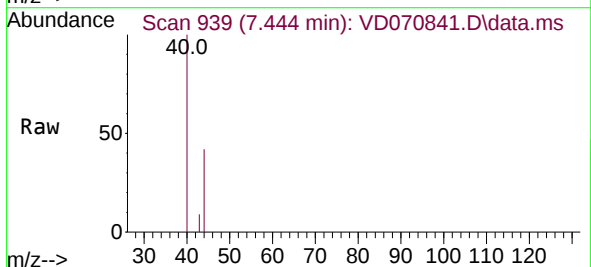


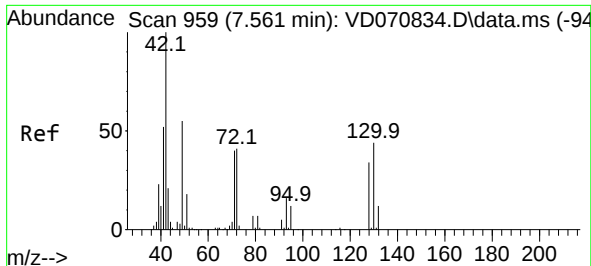
Tgt Ion: 43 Resp: 56
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 923.863 ug/l
 RT: 7.444 min Scan# 939
 Delta R.T. 0.230 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

Tgt Ion: 43 Resp: 149
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 574.739 ug/l

RT: 7.738 min Scan# 91

Delta R.T. 0.177 min

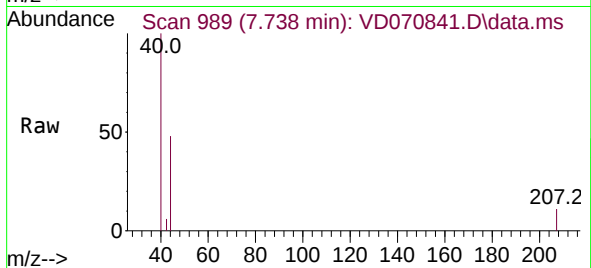
Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

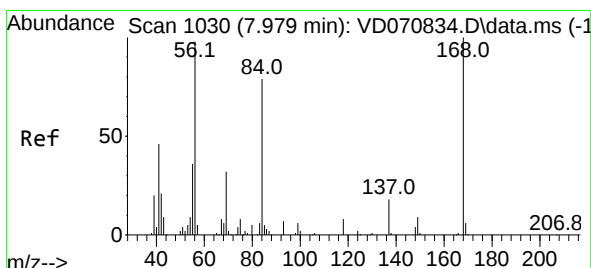
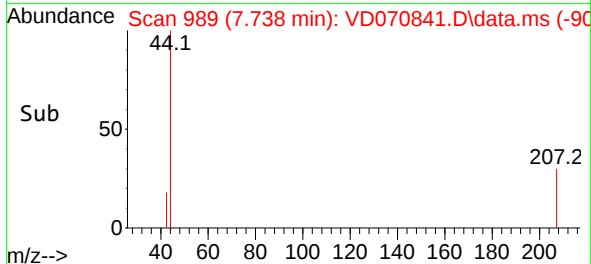
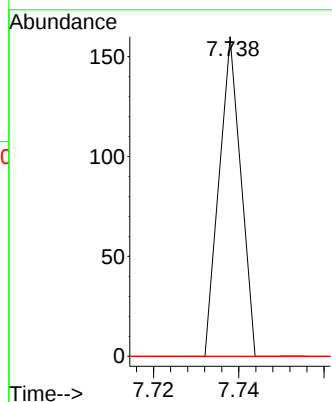
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	56
Ion Ratio	Lower	Upper	
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#31

Cyclohexane

Concen: 57.509 ug/l

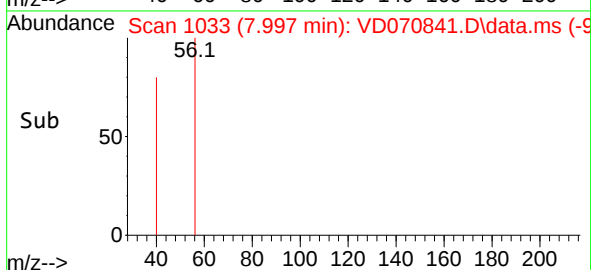
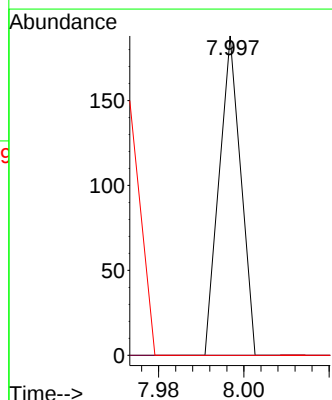
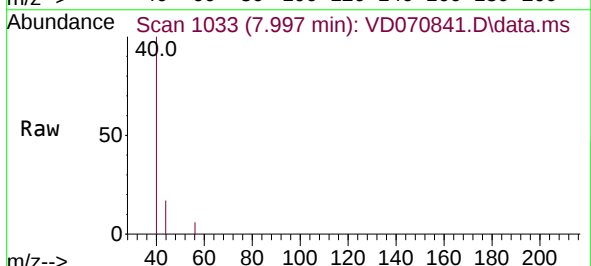
RT: 7.997 min Scan# 1033

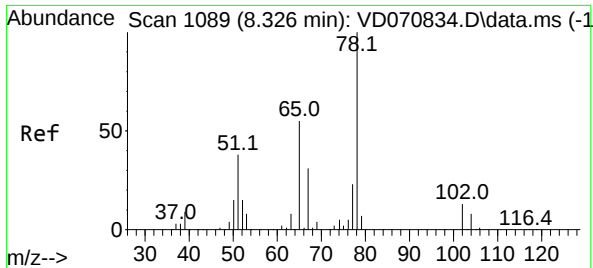
Delta R.T. 0.018 min

Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

Tgt Ion:	56	Resp:	66
Ion Ratio	Lower	Upper	
56	100		
69	0.0	25.9	38.9#
84	0.0	64.3	96.5#





#33

1,2-Dichloroethane-d4

Concen: 94.102 ug/l

RT: 8.585 min Scan# 11

Delta R.T. 0.259 min

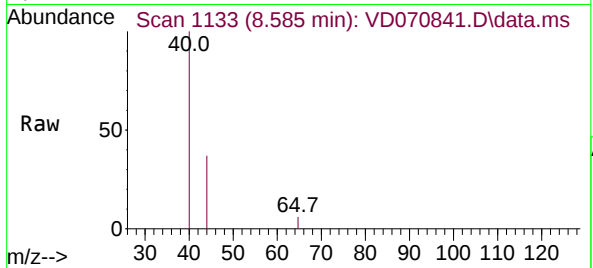
Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

Instrument :

MSVOA_D

ClientSampleId :

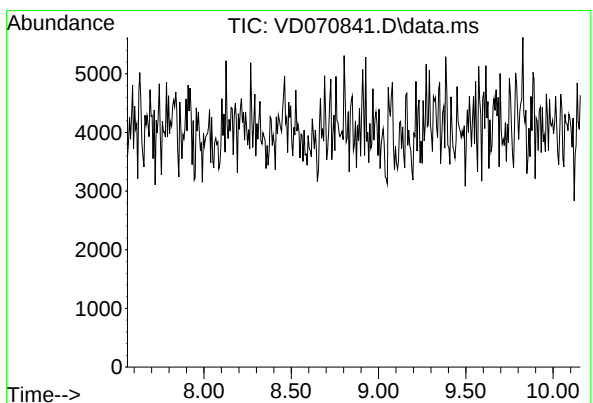
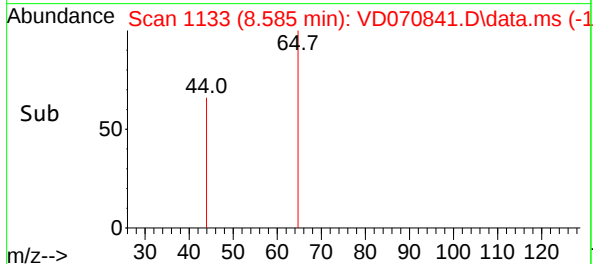
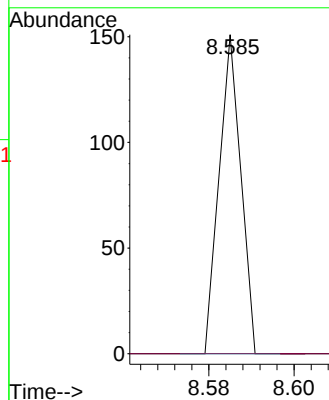


Tgt Ion: 65 Resp: 53

Ion Ratio Lower Upper

65 100

67 0.0 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 8.86 min

Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

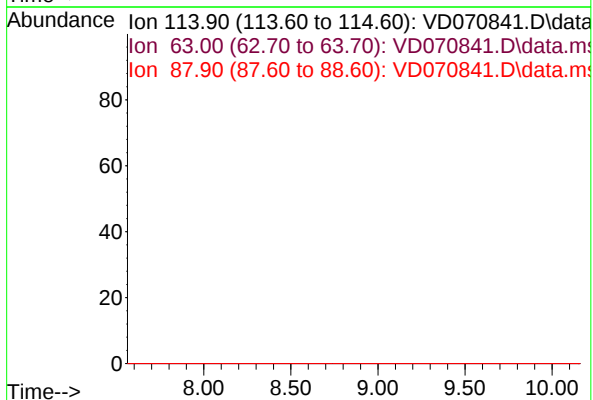
Tgt Ion: 114

Sig Exp Ratio

114 100

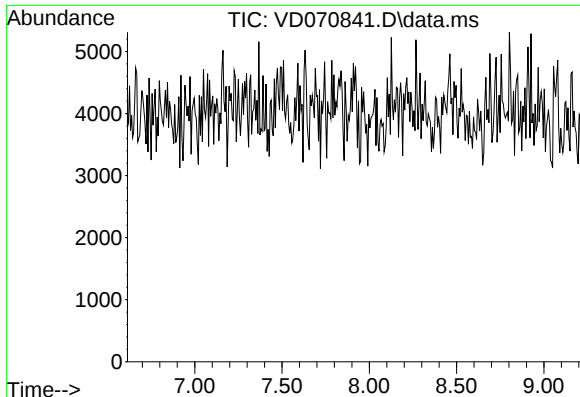
63 20.9

88 16.4



Ion 63.00 (62.70 to 63.70): VD070841.D\data.ms

Ion 87.90 (87.60 to 88.60): VD070841.D\data.ms

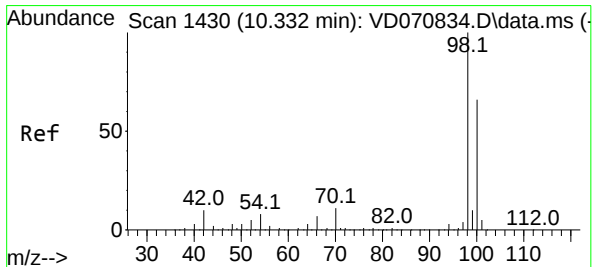
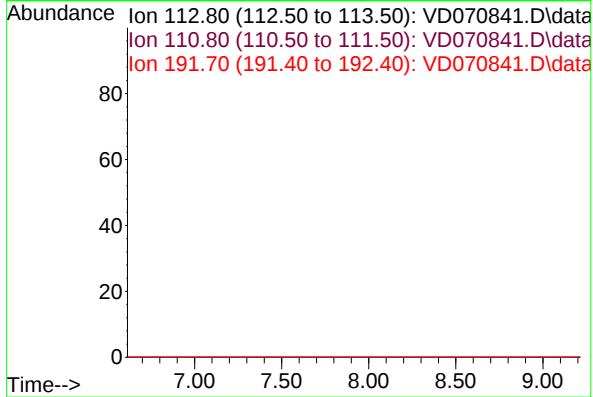


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.91 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion: 113

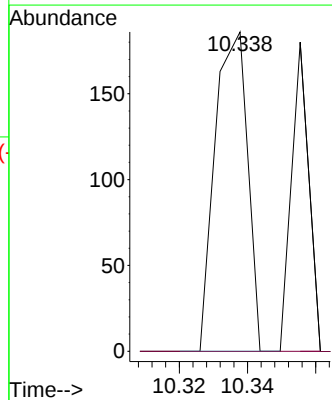
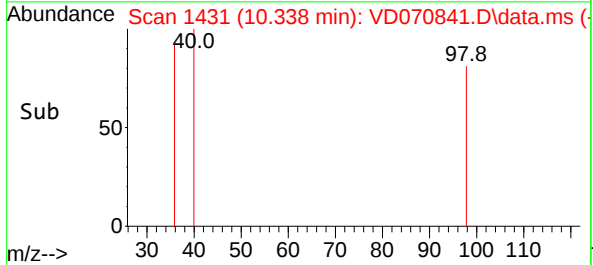
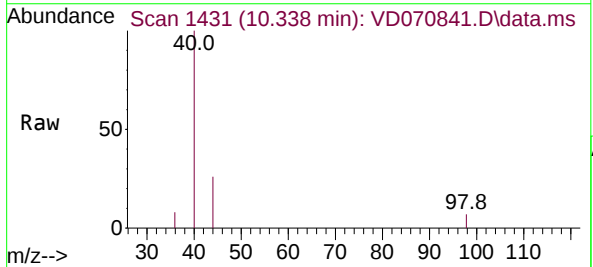
Sig	Exp Ratio
113	100
111	102.5
192	19.0

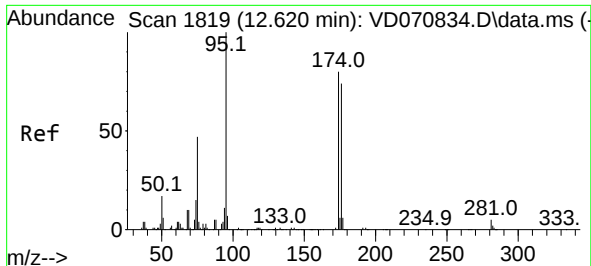


#50
 Toluene-d8
 Concen: 0.000 ug/l
 RT: 10.338 min Scan# 1431
 Delta R.T. 0.006 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

Tgt Ion: 98 Resp: 123

Ion	Ratio	Lower	Upper
98	100		
100	0.0	51.8	77.6

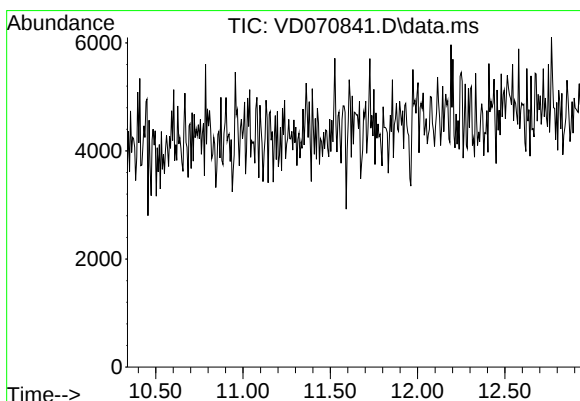
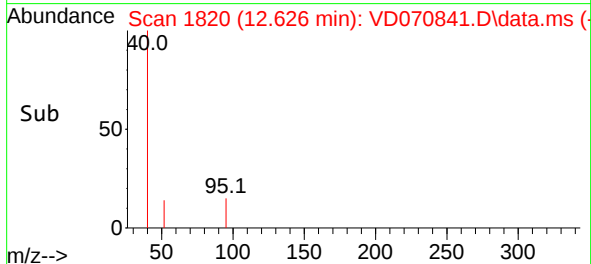
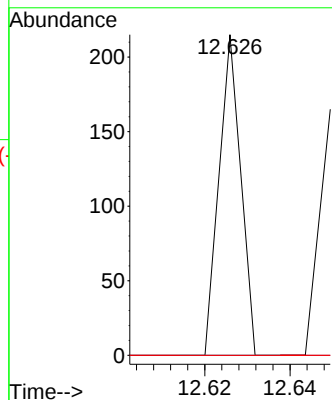
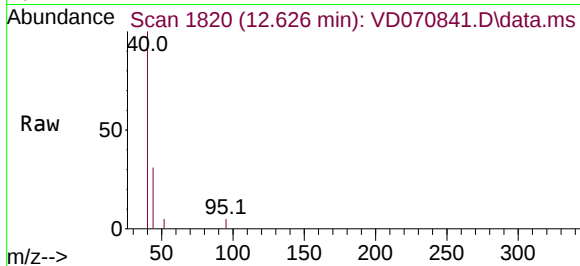




#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 12.626 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

Instrument :
MSVOA_D
ClientSampleId :

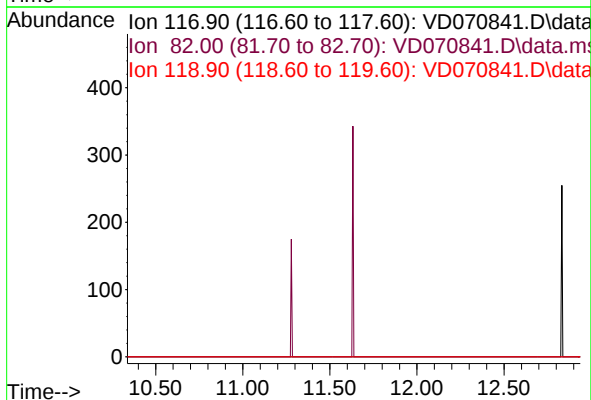
Tgt Ion: 95 Resp: 76
Ion Ratio Lower Upper
95 100
174 0.0 0.0 159.4
176 0.0 0.0 154.0

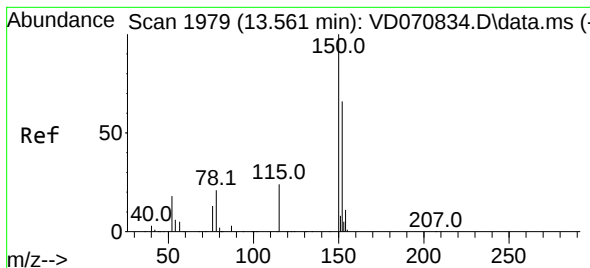


#63
Chlorobenzene-d5
Concen: 0.000 ug/l
Expected RT: 11.64 min

Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

Tgt Ion: 117
Sig Exp Ratio
117 100
82 55.9
119 32.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.467 min Scan# 1979

Delta R.T. -0.094 min

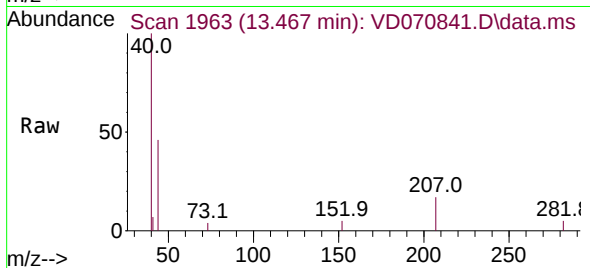
Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

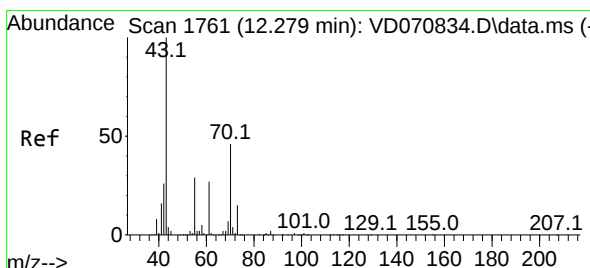
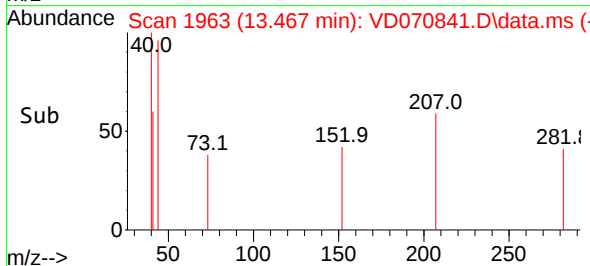
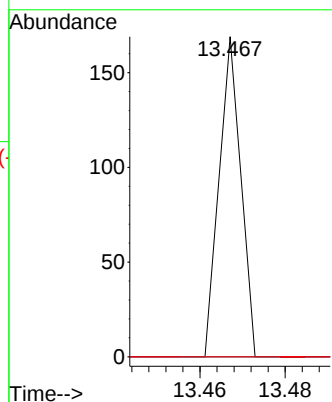
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	152	Resp:	60
Ion	Ratio	Lower	Upper
152	100		
115	0.0	29.8	89.3#
150	0.0	0.0	349.2



#74

N-ethyl acetate

Concen: 71.577 ug/l

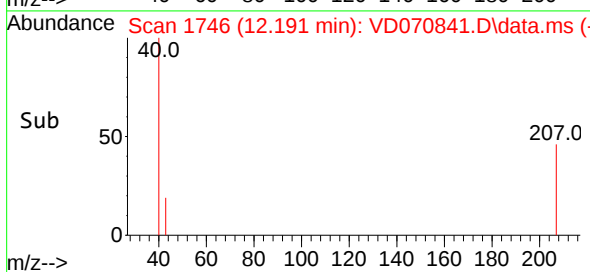
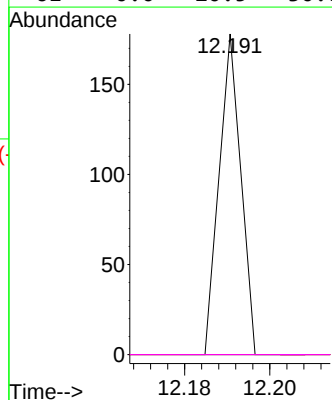
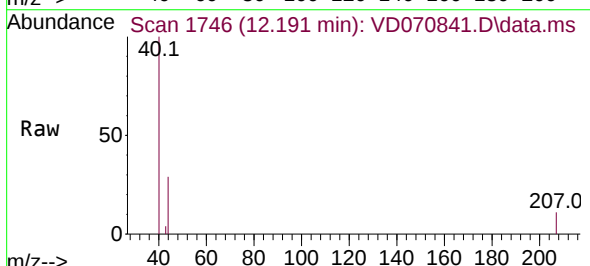
RT: 12.191 min Scan# 1746

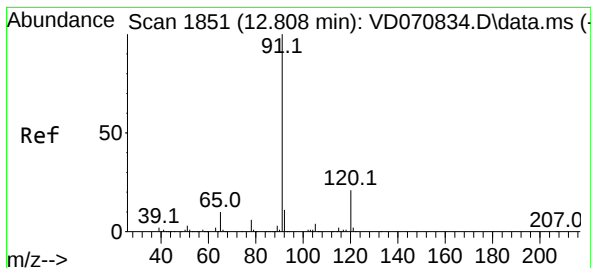
Delta R.T. -0.088 min

Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

Tgt Ion:	43	Resp:	63
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.6	55.0#
55	0.0	22.5	33.7#
61	0.0	20.5	30.7#





#78

n-propylbenzene

Concen: 11.875 ug/l

RT: 12.808 min Scan# 1851

Delta R.T. 0.000 min

Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

Instrument :

MSVOA_D

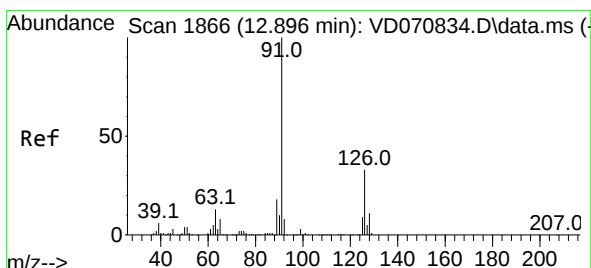
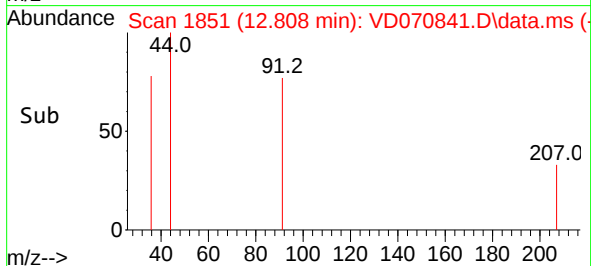
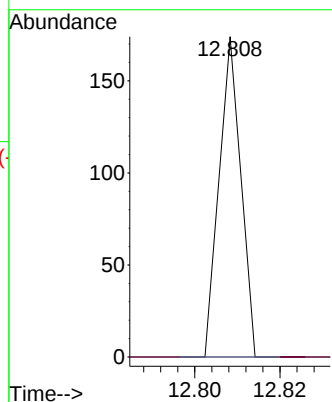
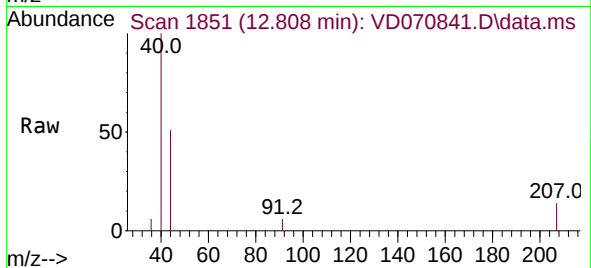
ClientSampleId :

Tgt Ion: 91 Resp: 61

Ion Ratio Lower Upper

91 100

120 0.0 10.9 32.9#



#79

2-Chlorotoluene

Concen: 18.105 ug/l

RT: 12.879 min Scan# 1863

Delta R.T. -0.017 min

Lab File: VD070841.D

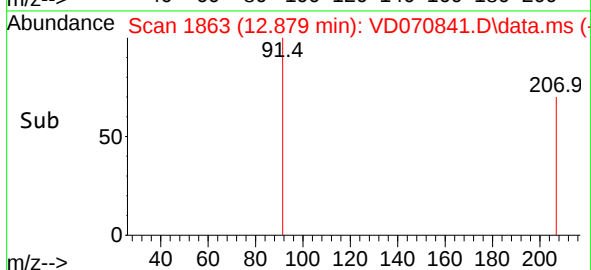
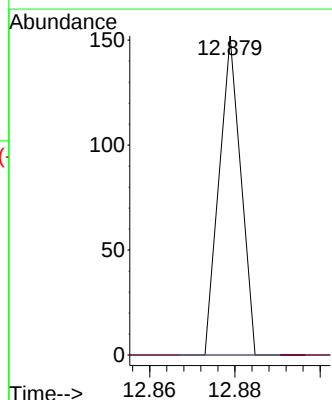
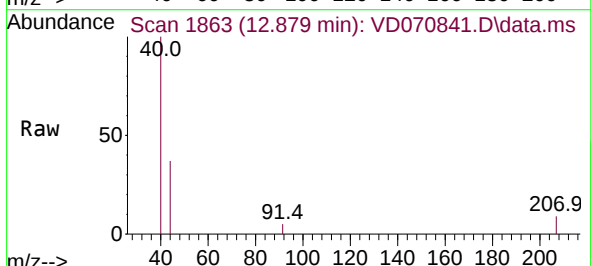
Acq: 26 Oct 2021 15:38

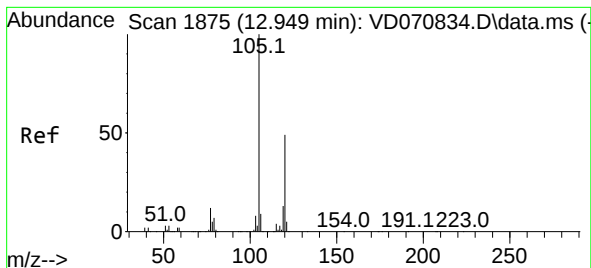
Tgt Ion: 91 Resp: 54

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#





#80

1,3,5-Trimethylbenzene

Concen: 35.330 ug/l

RT: 12.949 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VD070841.D

Acq: 26 Oct 2021 15:38

Instrument :

MSVOA_D

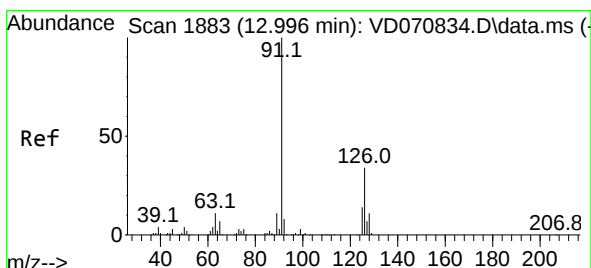
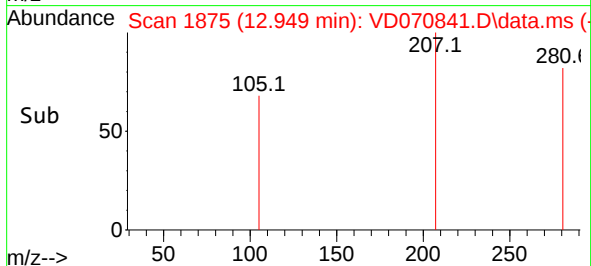
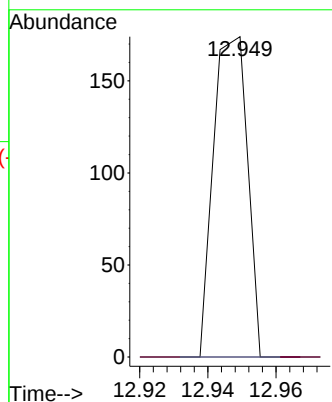
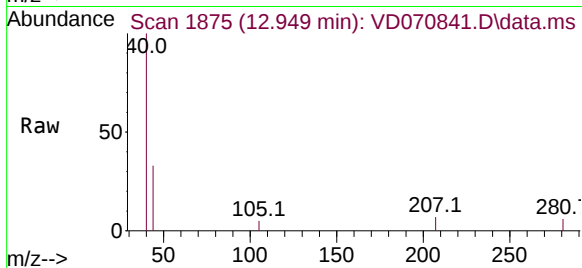
ClientSampleId :

Tgt Ion:105 Resp: 120

Ion Ratio Lower Upper

105 100

120 0.0 24.6 73.8#



#82

4-Chlorotoluene

Concen: 17.421 ug/l

RT: 12.879 min Scan# 1863

Delta R.T. -0.117 min

Lab File: VD070841.D

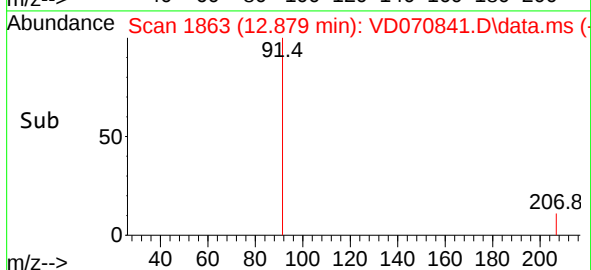
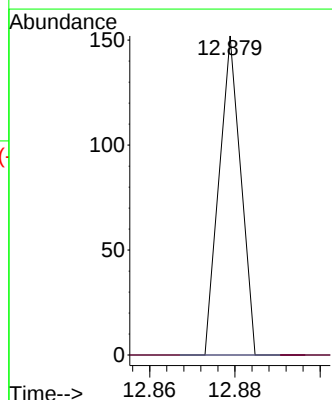
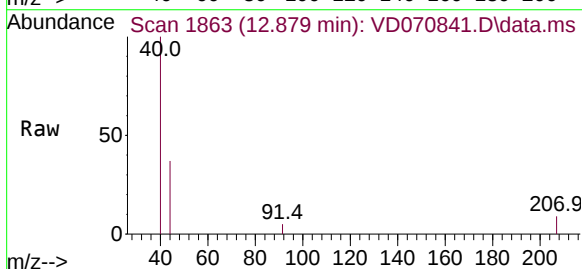
Acq: 26 Oct 2021 15:38

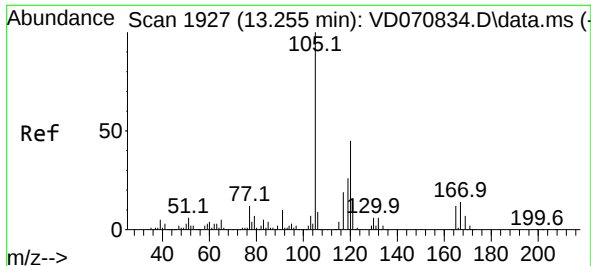
Tgt Ion: 91 Resp: 54

Ion Ratio Lower Upper

91 100

126 0.0 16.4 49.1#

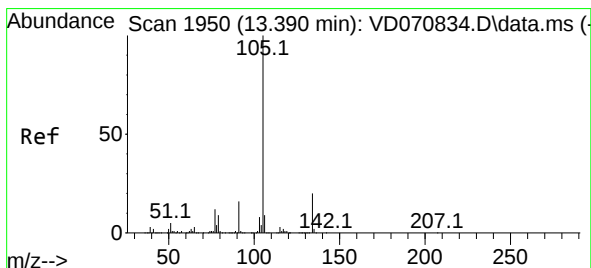
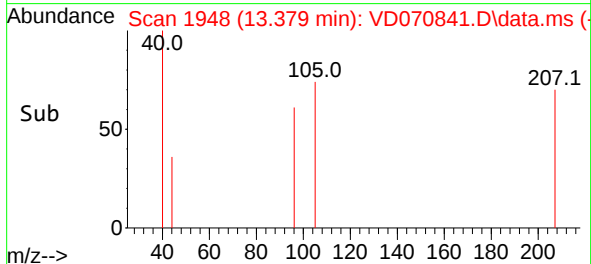
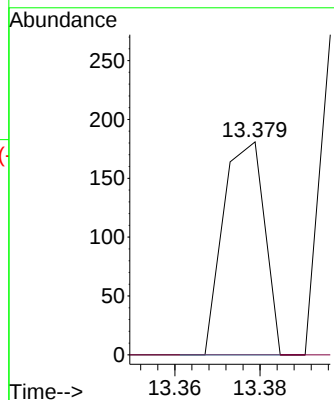
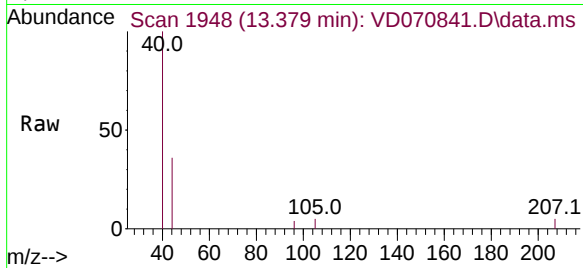




#84
1,2,4-Trimethylbenzene
Concen: 36.431 ug/l
RT: 13.379 min Scan# 1927
Delta R.T. 0.124 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

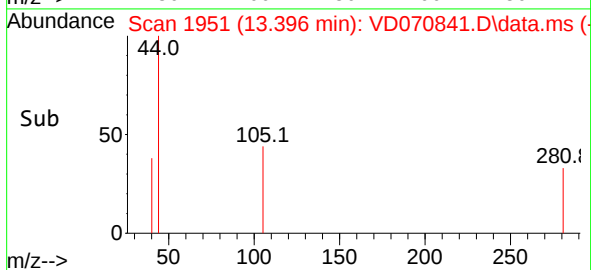
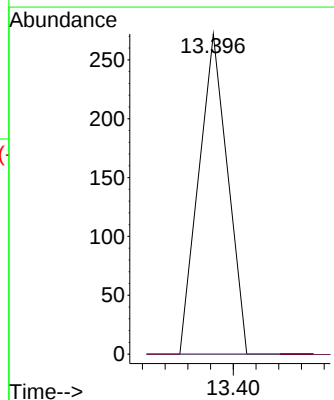
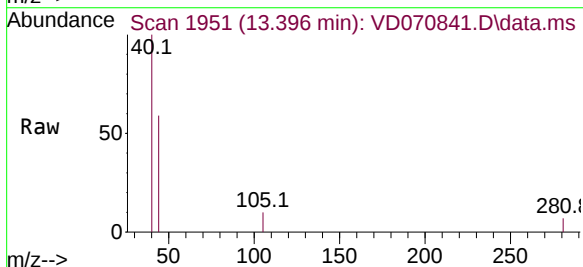
Instrument :
MSVOA_D
ClientSampleId :

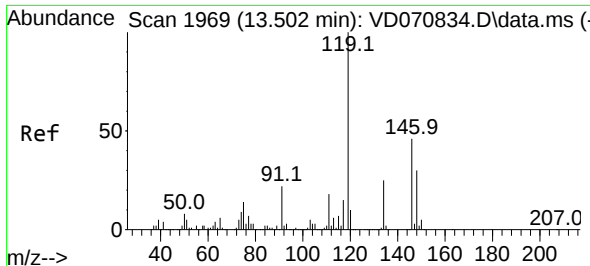
Tgt Ion:105 Resp: 122
Ion Ratio Lower Upper
105 100
120 0.0 22.9 68.7#



#85
sec-Butylbenzene
Concen: 21.491 ug/l
RT: 13.396 min Scan# 1951
Delta R.T. 0.006 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

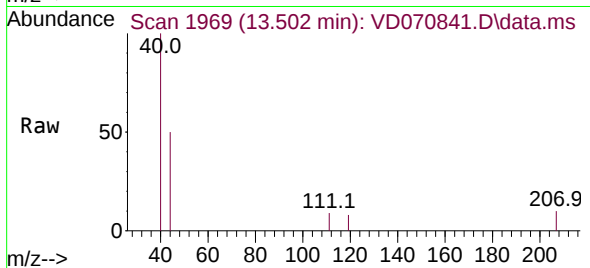
Tgt Ion:105 Resp: 96
Ion Ratio Lower Upper
105 100
134 0.0 9.7 28.9#



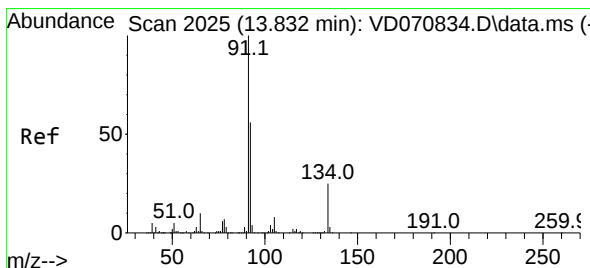
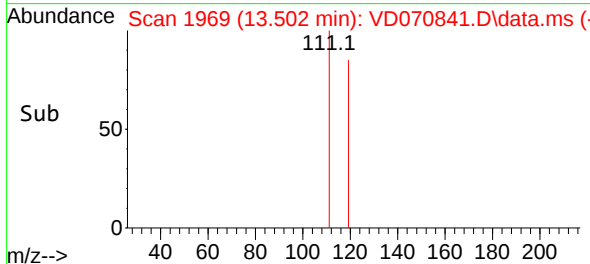
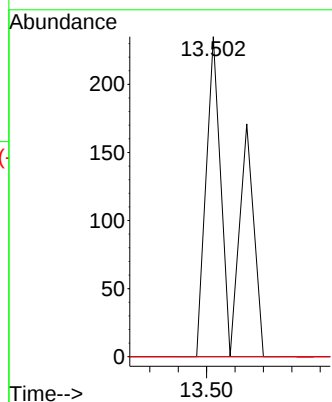


#86
p-Isopropyltoluene
Concen: 39.791 ug/l
RT: 13.502 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

Instrument :
MSVOA_D
ClientSampleId :

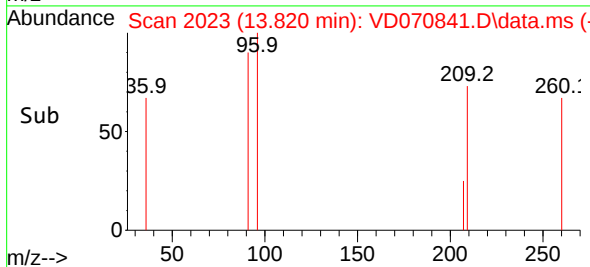
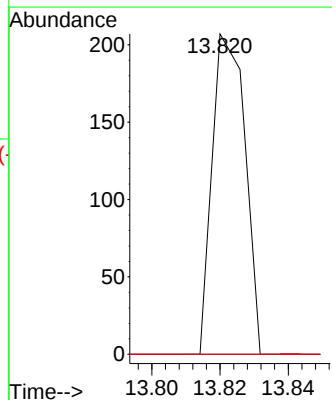
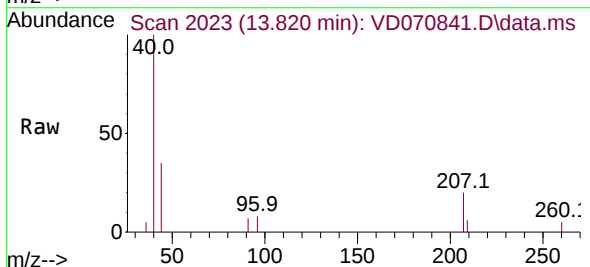


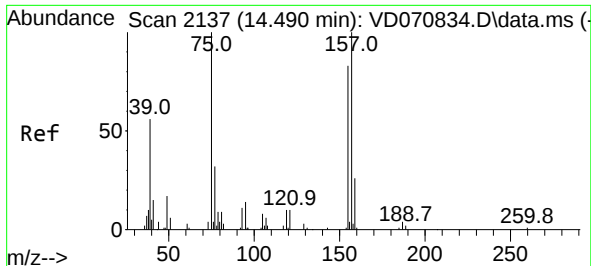
Tgt Ion: 119 Resp: 143
Ion Ratio Lower Upper
119 100
134 0.0 13.0 38.9#
91 0.0 11.4 34.2#



#89
n-Butylbenzene
Concen: 39.191 ug/l
RT: 13.820 min Scan# 2023
Delta R.T. -0.012 min
Lab File: VD070841.D
Acq: 26 Oct 2021 15:38

Tgt Ion: 91 Resp: 138
Ion Ratio Lower Upper
91 100
92 0.0 27.3 81.9#
134 0.0 12.3 36.9#

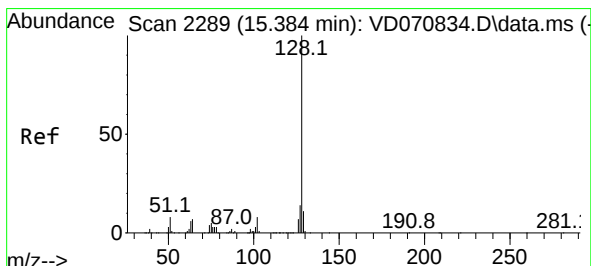
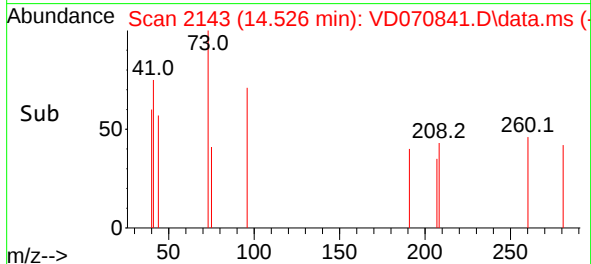
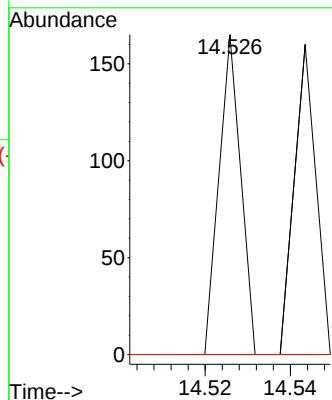
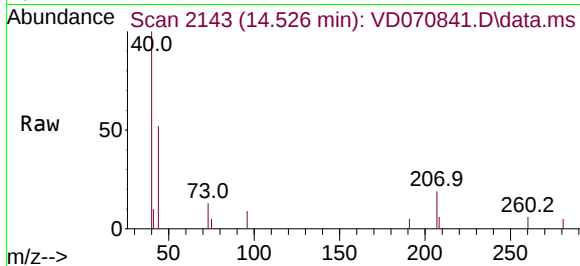




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 487.483 ug/l
 RT: 14.526 min Scan# 2143
 Delta R.T. 0.035 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion: 75 Resp: 58
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.0 120.0#
 157 0.0 49.8 149.3#



#95
 Naphthalene
 Concen: 164.802 ug/l
 RT: 15.373 min Scan# 2287
 Delta R.T. -0.011 min
 Lab File: VD070841.D
 Acq: 26 Oct 2021 15:38

Tgt Ion: 128 Resp: 330
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.7 16.1#
 129 0.0 8.7 13.1#

