

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120921\
 Data File : VD071236.D
 Acq On : 09 Dec 2021 18:54
 Operator : VA/SY
 Sample : M4967-04
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 10 06:47:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

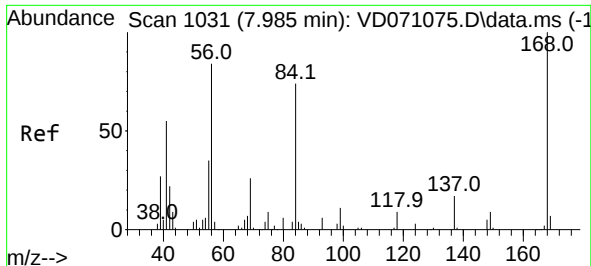
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	1856	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	2934	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	3180	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	1246	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	1404	64.469	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 128.940%	
35) Dibromofluoromethane	7.908	113	777	41.588	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 83.180%	
50) Toluene-d8	10.338	98	3784	53.221	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 106.440%	
62) 4-Bromofluorobenzene	12.614	95	1285	52.139	ug/l	-0.01
Spiked Amount	50.000	Range	25 - 144	Recovery	= 104.280%	
Target Compounds						
						Qvalue
3) Chloromethane	2.232	50	58	2.770	ug/l #	42
5) Bromomethane	2.715	94	115	6.829	ug/l #	3
6) Chloroethane	2.773	64	55	3.423	ug/l #	39
11) Tert butyl alcohol	5.191	59	62	Below Cal	#	1
12) 1,1-Dichloroethene	4.003	96	56	3.250	ug/l #	1
13) Acrolein	4.179	56	66	44.348	ug/l #	66
14) Allyl chloride	4.809	41	62	1.894	ug/l #	41
16) Acetone	4.250	43	58	39.590	ug/l #	40
18) Methyl Acetate	4.726	43	73	4.543	ug/l #	51
19) Methyl tert-butyl Ether	5.667	73	61	1.445	ug/l #	52
20) Methylene Chloride	4.938	84	63	Below Cal	#	7
21) trans-1,2-Dichloroethene	5.708	96	110	5.671	ug/l #	1
23) Vinyl Acetate	6.314	43	79	29.204	ug/l #	72
24) 1,1-Dichloroethane	6.397	63	55	1.458	ug/l #	82
25) 2-Butanone	7.179	43	61	36.456	ug/l #	45
26) 2,2-Dichloropropane	7.191	77	61	1.779	ug/l #	1
29) Tetrahydrofuran	7.679	42	54	15.615	ug/l #	34
31) Cyclohexane	7.985	56	55	1.485	ug/l #	19
37) Ethyl Acetate	7.338	43	113	9.540	ug/l #	66
41) Methacrylonitrile	7.597	41	54	5.709	ug/l #	25
43) Isopropyl Acetate	8.232	43	56	7.147	ug/l #	47
46) Dibromomethane	9.491	93	60	5.904	ug/l #	4
48) Methyl methacrylate	9.338	41	78	6.727	ug/l #	15
51) 4-Methyl-2-Pentanone	10.114	43	74	35.513	ug/l #	34
59) 2-Hexanone	10.979	43	73	40.824	ug/l #	22
74) N-amyl acetate	12.338	43	57	7.746	ug/l #	40
76) 1,2,3-Trichloropropane	12.620	75	842	70.927	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	842	152.511	ug/l #	18
89) n-Butylbenzene	14.049	91	79	1.014	ug/l #	32
92) 1,2-Dibromo-3-Chloropr...	14.320	75	64	26.451	ug/l #	4

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

Quant Time: Dec 10 06:47:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
Response via : Initial Calibration

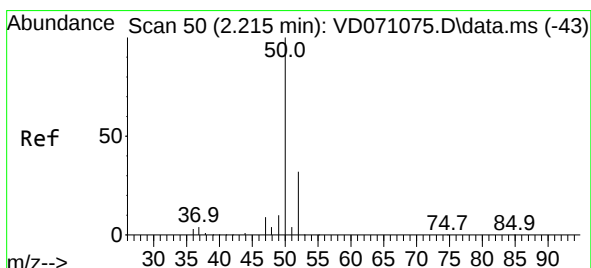
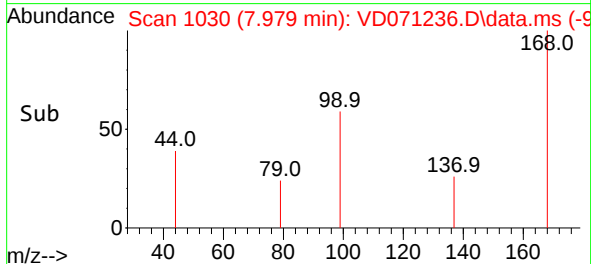
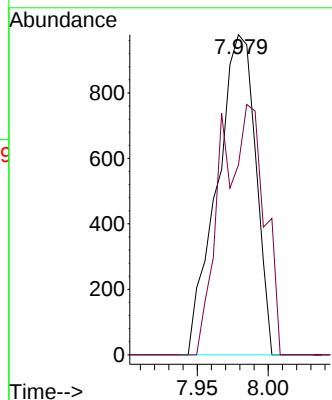
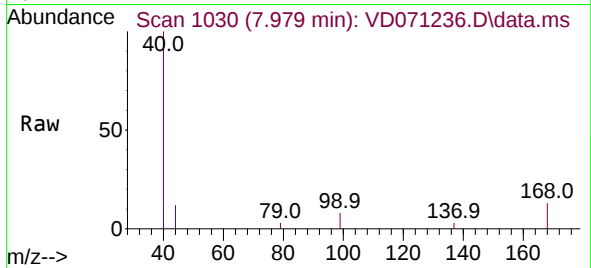




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

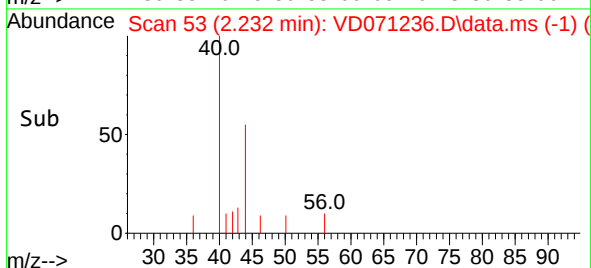
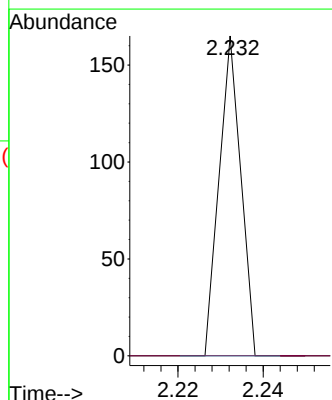
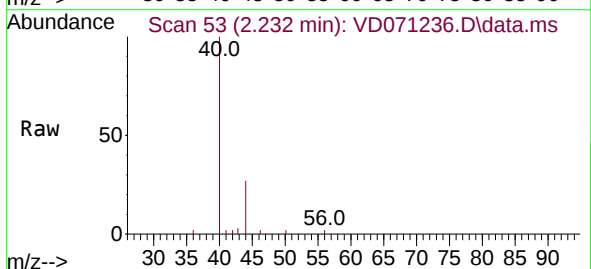
Instrument :
MSVOA_D
ClientSampleId :

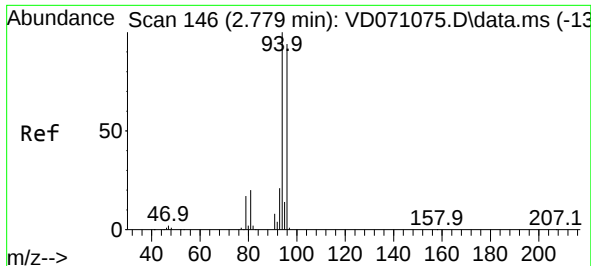
Tgt Ion:168 Resp: 1856
Ion Ratio Lower Upper
168 100
99 59.3 46.6 69.8



#3
Chloromethane
Concen: 2.770 ug/l
RT: 2.232 min Scan# 53
Delta R.T. 0.017 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion: 50 Resp: 58
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

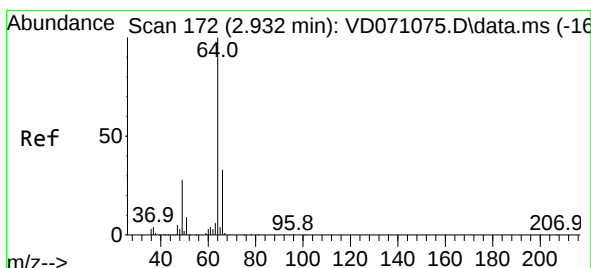
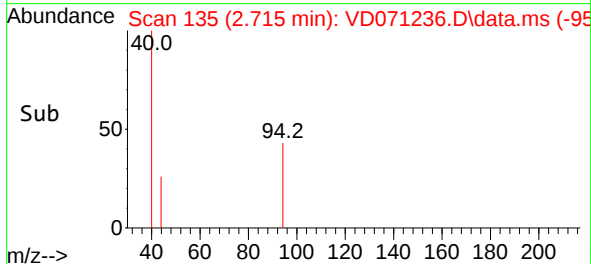
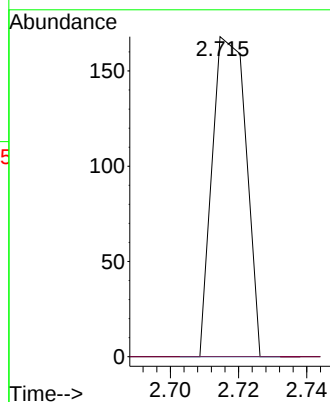
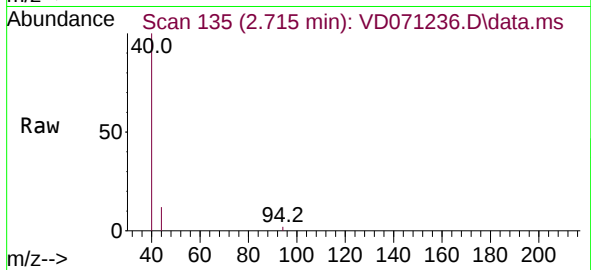




#5
Bromomethane
Concen: 6.829 ug/l
RT: 2.715 min Scan# 11
Delta R.T. -0.064 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

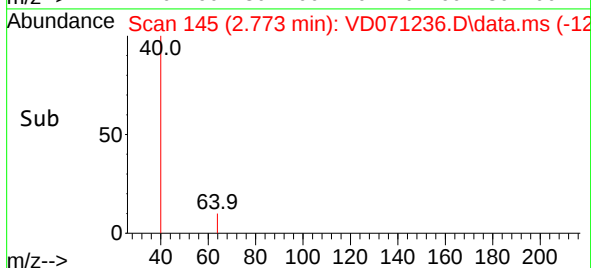
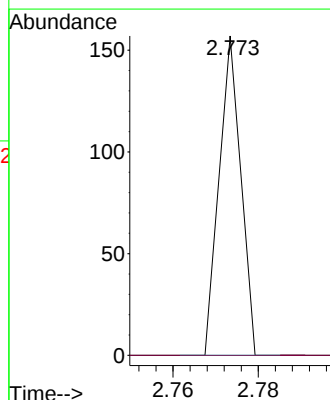
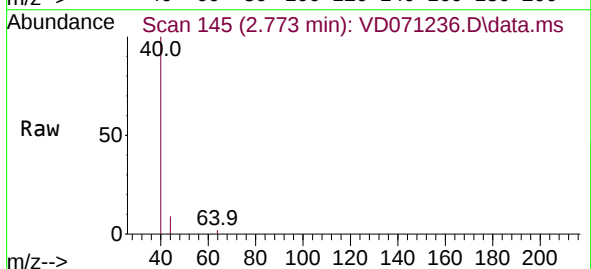
Instrument :
MSVOA_D
ClientSampleId :

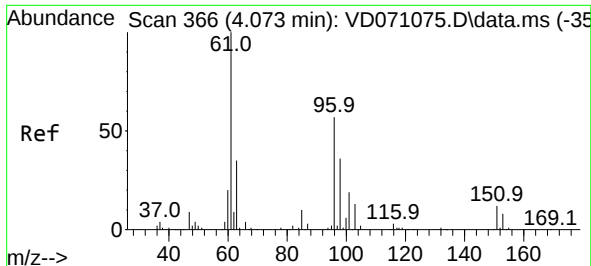
Tgt Ion: 94 Resp: 115
Ion Ratio Lower Upper
94 100
96 0.0 74.8 112.2#



#6
Chloroethane
Concen: 3.423 ug/l
RT: 2.773 min Scan# 145
Delta R.T. -0.159 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

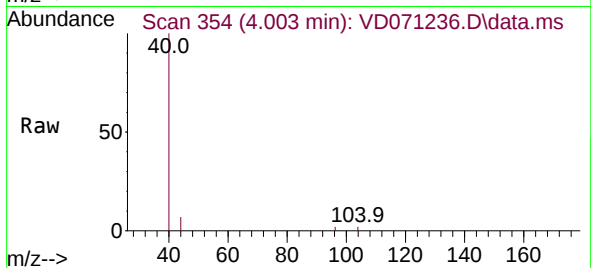
Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



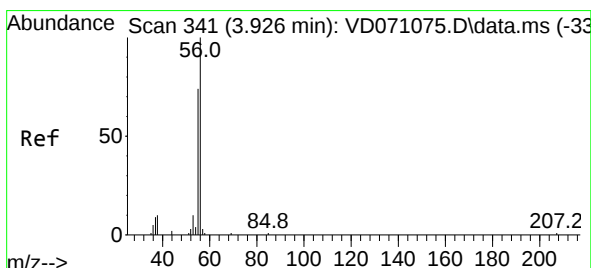
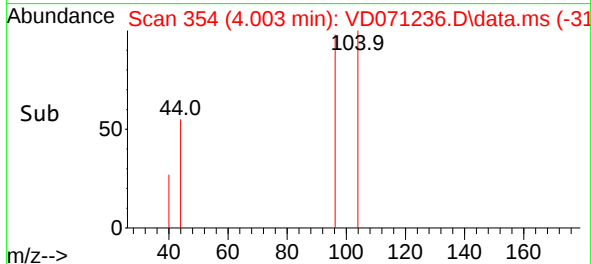
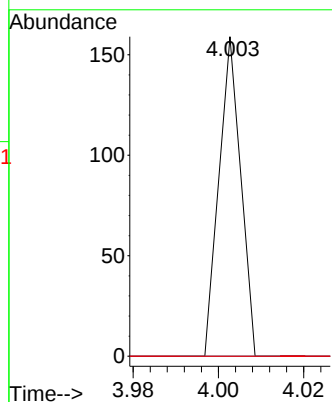


#12
1,1-Dichloroethene
Concen: 3.250 ug/l
RT: 4.003 min Scan# 31
Delta R.T. -0.070 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Instrument :
MSVOA_D
ClientSampleId :

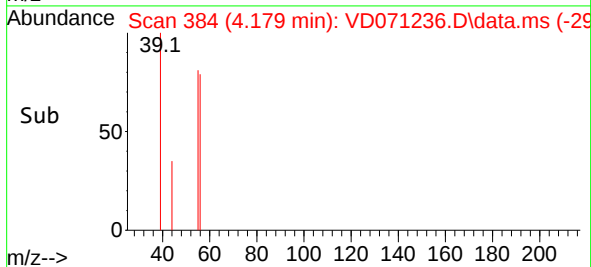
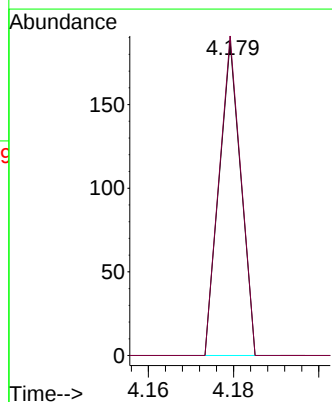
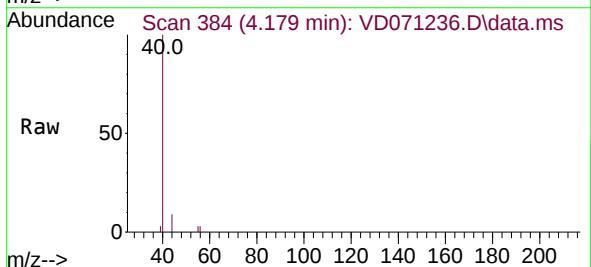


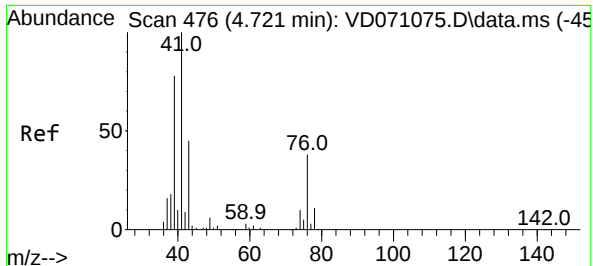
Tgt Ion: 96 Resp: 56
Ion Ratio Lower Upper
96 100
61 0.0 120.3 180.5#
98 0.0 54.4 81.6#



#13
Acrolein
Concen: 44.348 ug/l
RT: 4.179 min Scan# 384
Delta R.T. 0.253 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 101.5 58.6 87.8#





#14

Allyl chloride

Concen: 1.894 ug/l

RT: 4.809 min Scan# 491

Delta R.T. 0.088 min

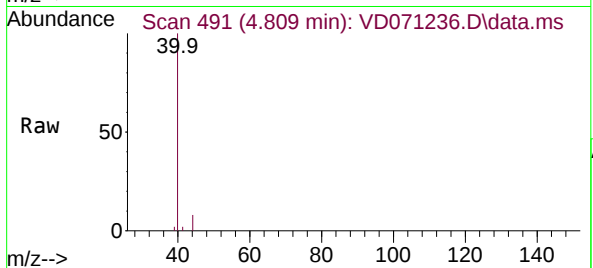
Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

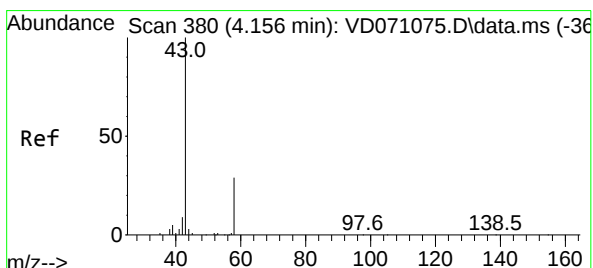
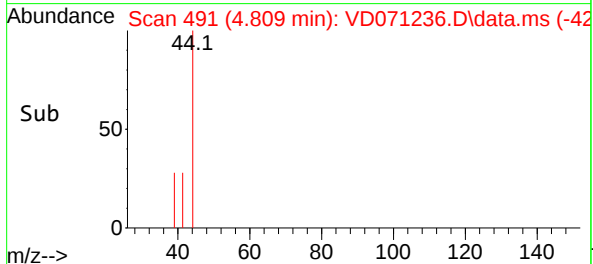
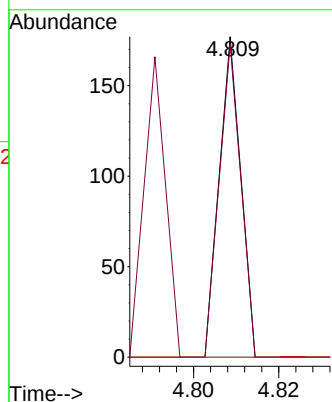
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 41	Resp: 62
Ion Ratio	Lower Upper
41	100
39	98.4 45.6 68.4#
76	0.0 30.2 45.4#



#16

Acetone

Concen: 39.590 ug/l

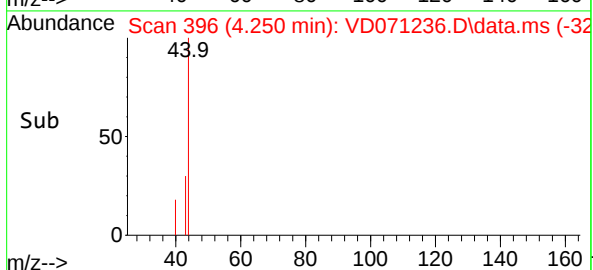
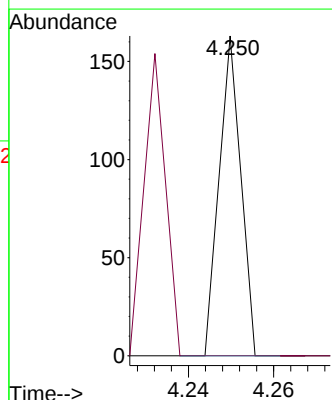
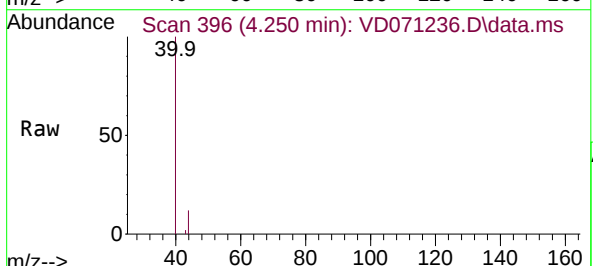
RT: 4.250 min Scan# 396

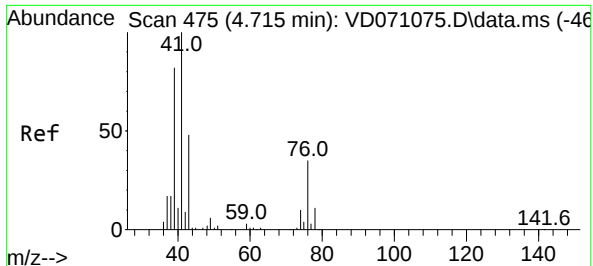
Delta R.T. 0.094 min

Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

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





#18

Methyl Acetate

Concen: 4.543 ug/l

RT: 4.726 min Scan# 41

Delta R.T. 0.011 min

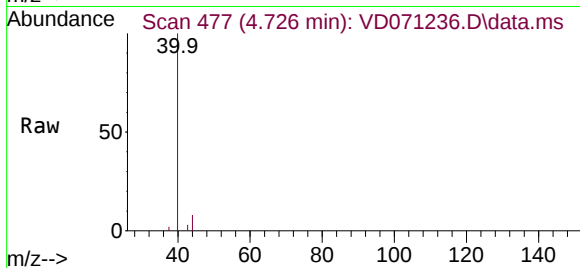
Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

Instrument :

MSVOA_D

ClientSampleId :

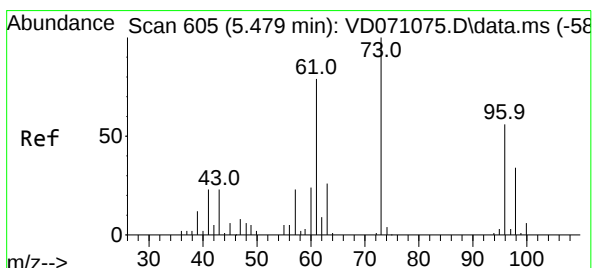
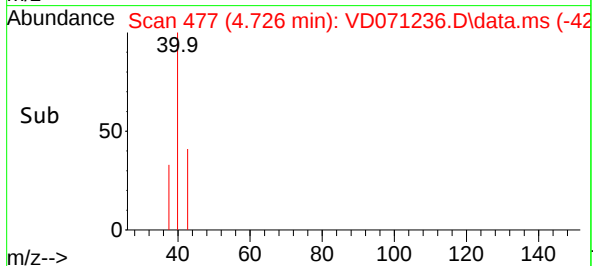
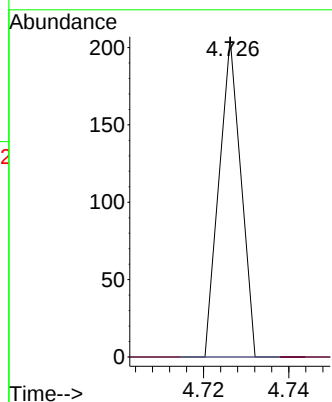


Tgt Ion: 43 Resp: 73

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#



#19

Methyl tert-butyl Ether

Concen: 1.445 ug/l

RT: 5.667 min Scan# 637

Delta R.T. 0.188 min

Lab File: VD071236.D

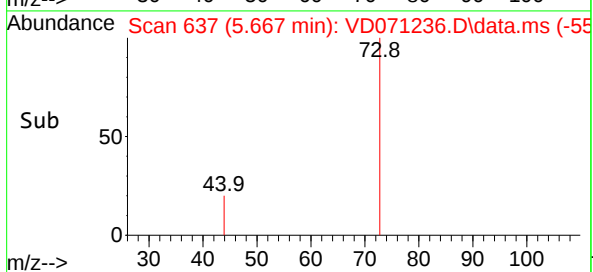
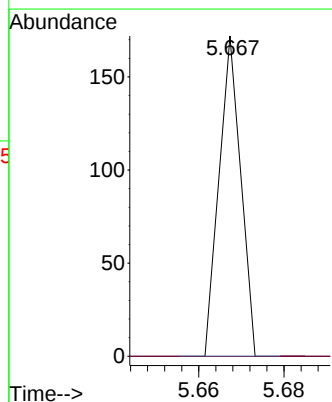
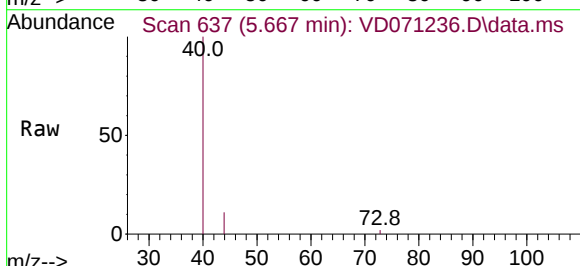
Acq: 09 Dec 2021 18:54

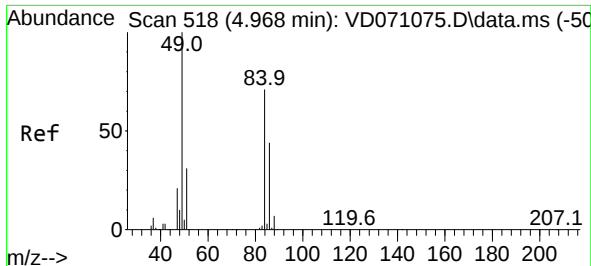
Tgt Ion: 73 Resp: 61

Ion Ratio Lower Upper

73 100

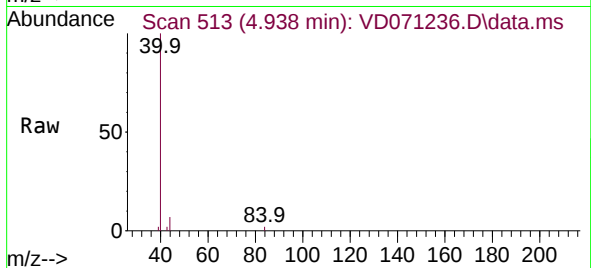
57 0.0 18.9 28.3#



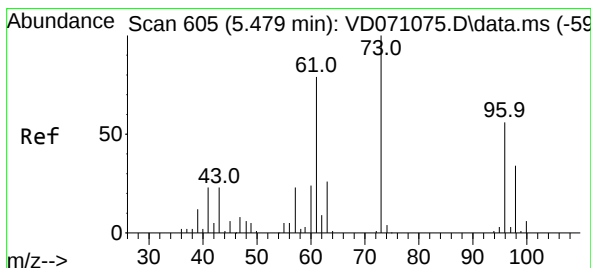
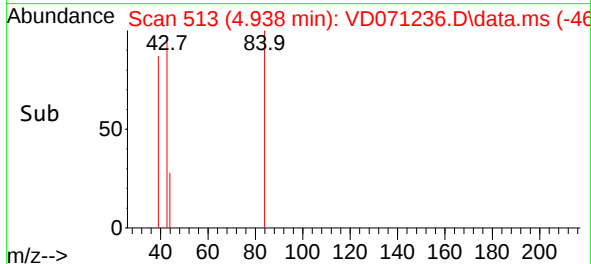
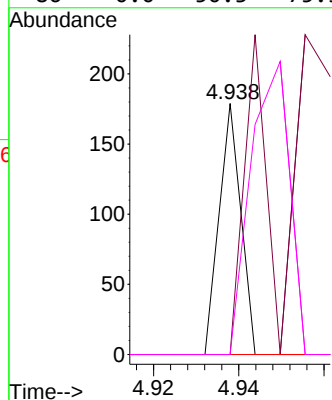


#20
Methylene Chloride
Concen: Below Cal
RT: 4.938 min Scan# 51
Delta R.T. -0.030 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Instrument :
MSVOA_D
ClientSampleId :

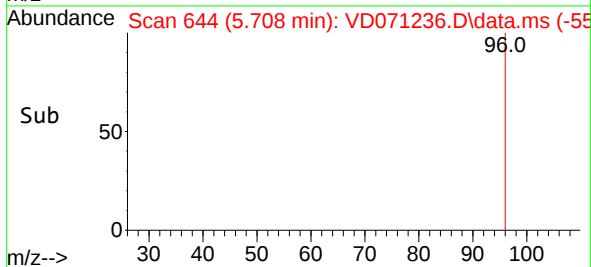
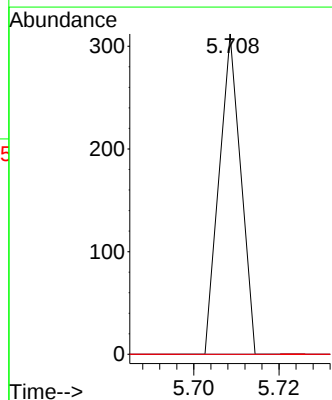
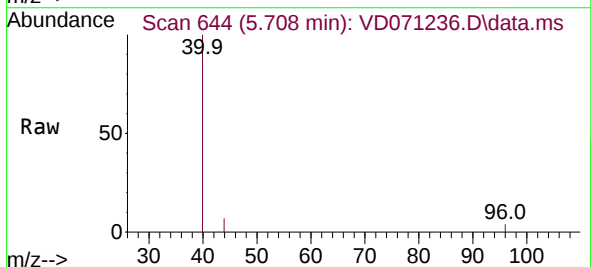


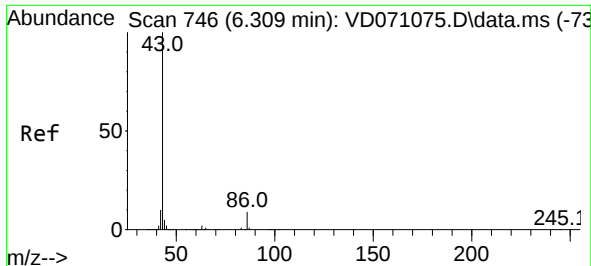
Tgt Ion:	84	Resp:	63
Ion	Ratio	Lower	Upper
84	100		
49	0.0	95.8	143.6#
51	0.0	30.9	46.3#
86	0.0	50.3	75.5#



#21
trans-1,2-Dichloroethene
Concen: 5.671 ug/l
RT: 5.708 min Scan# 644
Delta R.T. 0.229 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion:	96	Resp:	110
Ion	Ratio	Lower	Upper
96	100		
61	0.0	102.1	153.1#
98	0.0	50.1	75.1#

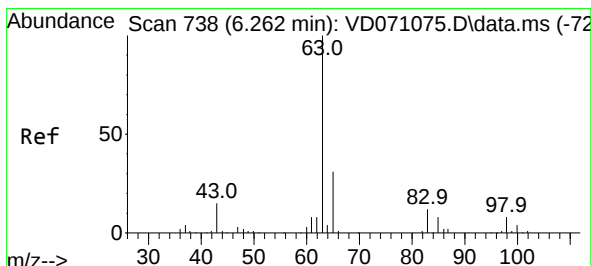
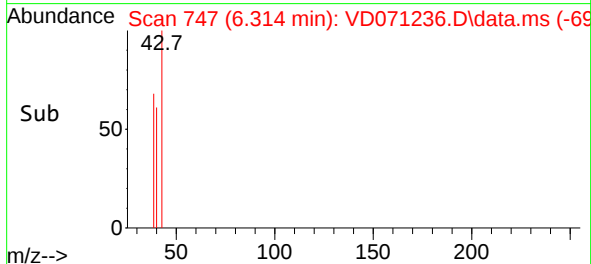
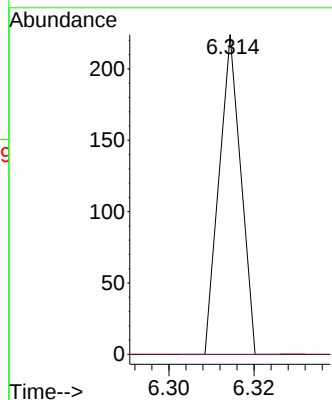
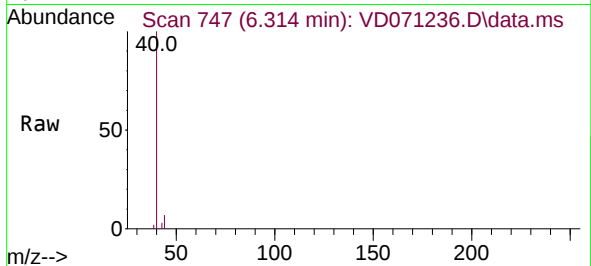




#23
 Vinyl Acetate
 Concen: 29.204 ug/l
 RT: 6.314 min Scan# 746
 Delta R.T. 0.005 min
 Lab File: VD071236.D
 Acq: 09 Dec 2021 18:54

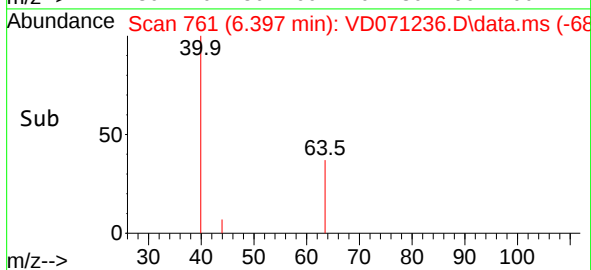
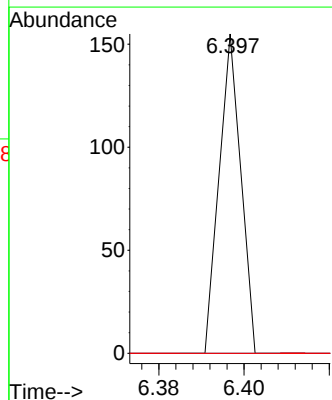
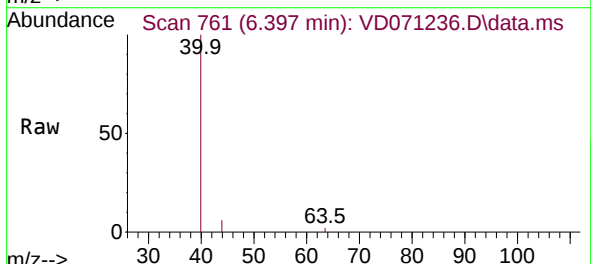
Instrument :
 MSVOA_D
 ClientSampleId :

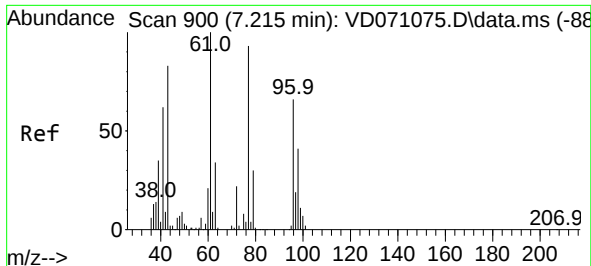
Tgt Ion: 43 Resp: 79
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#24
 1,1-Dichloroethane
 Concen: 1.458 ug/l
 RT: 6.397 min Scan# 761
 Delta R.T. 0.135 min
 Lab File: VD071236.D
 Acq: 09 Dec 2021 18:54

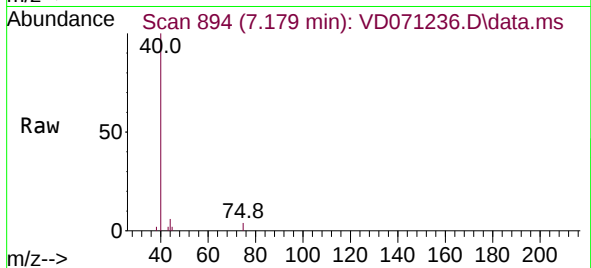
Tgt Ion: 63 Resp: 55
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.5 10.6#
 100 0.0 2.1 6.3#



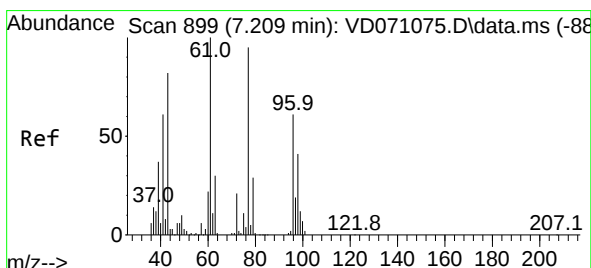
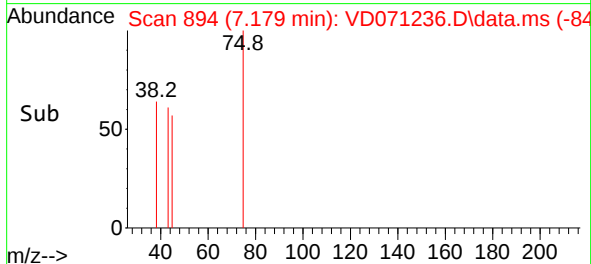
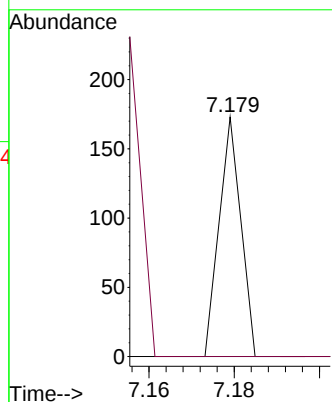


#25
2-Butanone
Concen: 36.456 ug/l
RT: 7.179 min Scan# 894
Delta R.T. -0.036 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Instrument :
MSVOA_D
ClientSampleId :

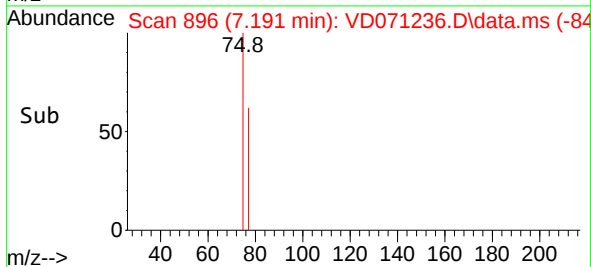
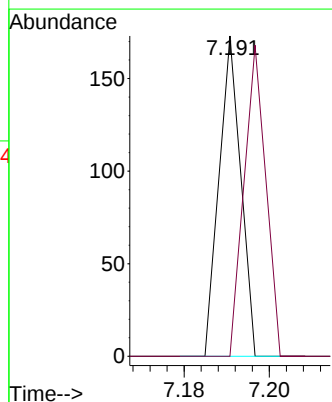
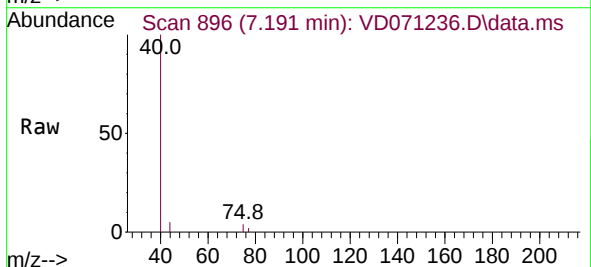


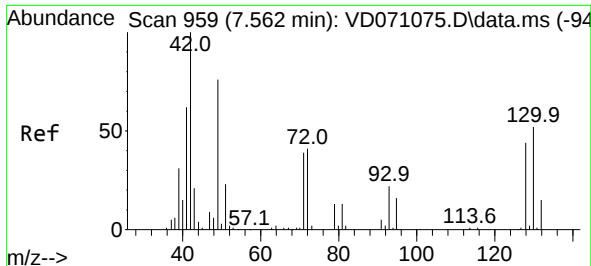
Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#26
2,2-Dichloropropane
Concen: 1.779 ug/l
RT: 7.191 min Scan# 896
Delta R.T. -0.018 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion: 77 Resp: 61
Ion Ratio Lower Upper
77 100
97 96.7 11.9 35.5#





#29

Tetrahydrofuran

Concen: 15.615 ug/l

RT: 7.679 min Scan# 91

Delta R.T. 0.117 min

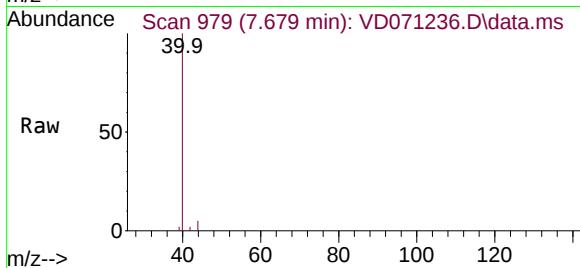
Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

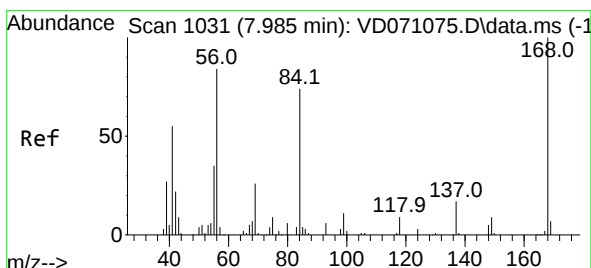
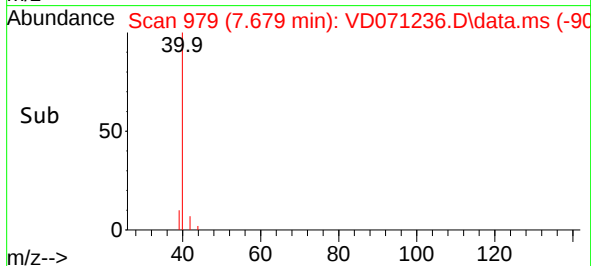
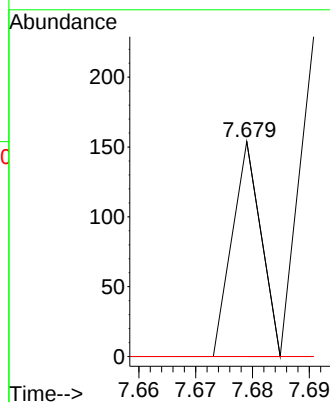
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	54
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#31

Cyclohexane

Concen: 1.485 ug/l

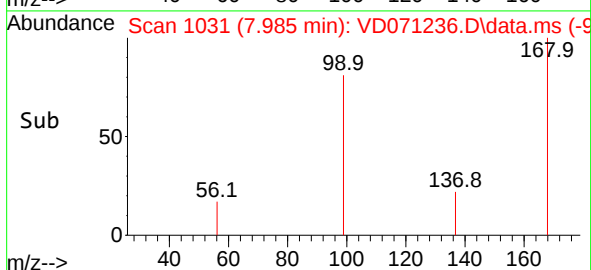
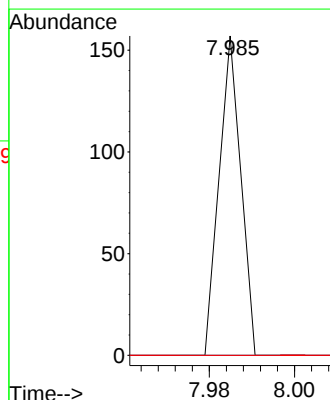
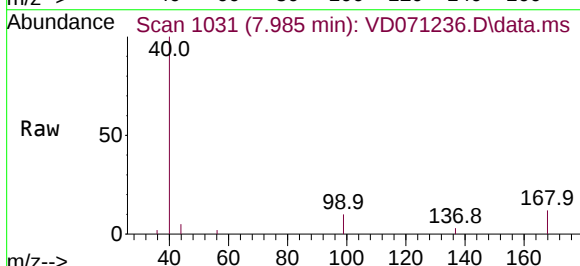
RT: 7.985 min Scan# 1031

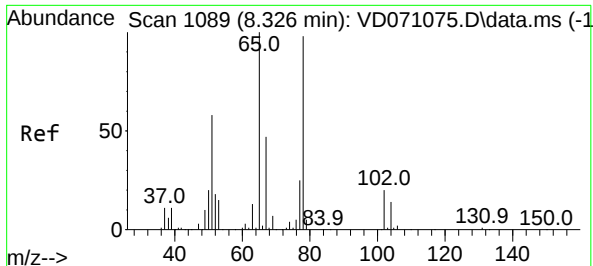
Delta R.T. -0.000 min

Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

Tgt Ion:	56	Resp:	55
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: 64.469 ug/l

RT: 8.326 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

Instrument :

MSVOA_D

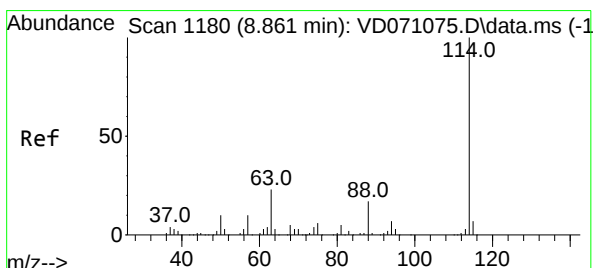
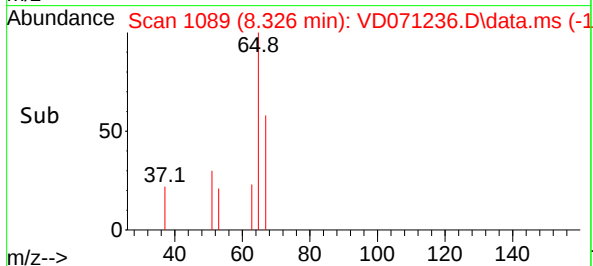
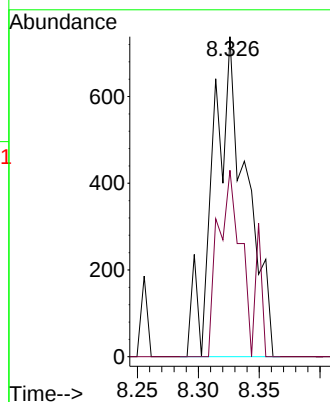
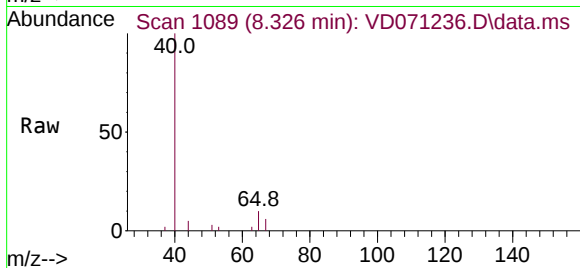
ClientSampleId :

Tgt Ion: 65 Resp: 1404

Ion Ratio Lower Upper

65 100

67 38.7 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

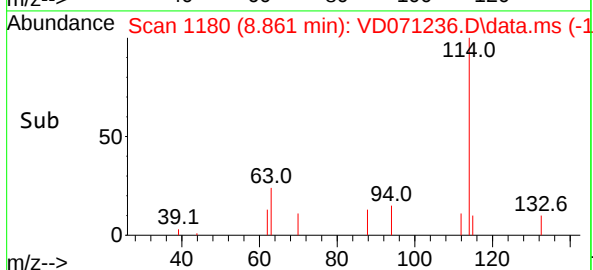
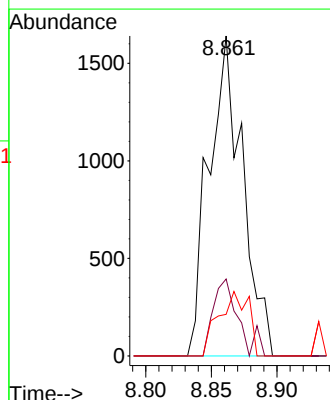
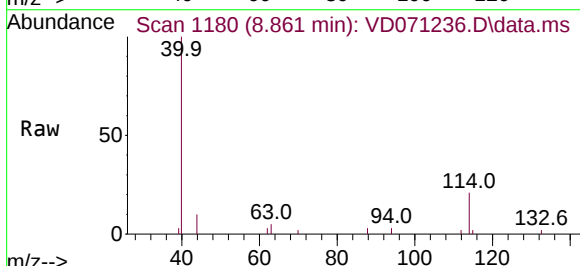
Tgt Ion: 114 Resp: 2934

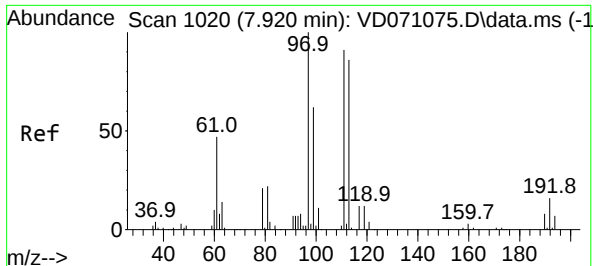
Ion Ratio Lower Upper

114 100

63 24.1 0.0 41.8

88 13.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 41.588 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.012 min

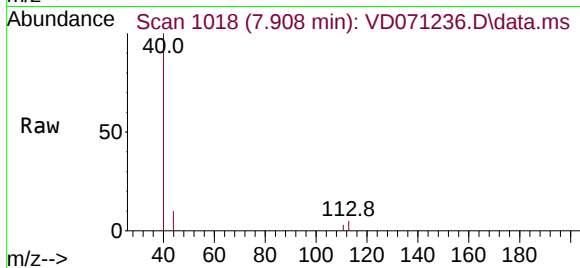
Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

Instrument :

MSVOA_D

ClientSampleId :



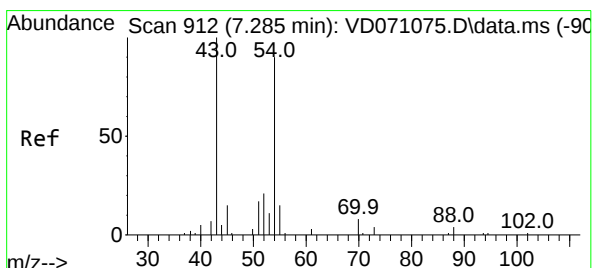
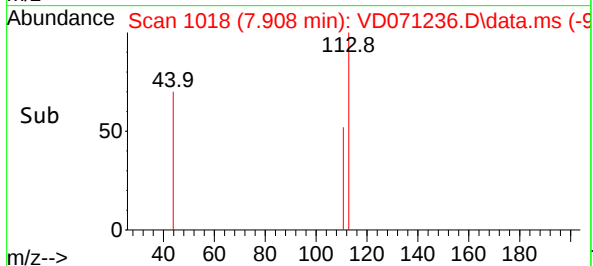
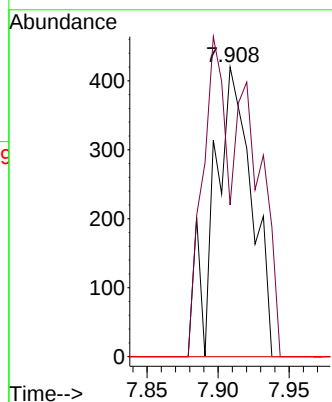
Tgt Ion:113 Resp: 777

Ion Ratio Lower Upper

113 100

111 71.3 82.0 123.0#

192 0.0 15.2 22.8#



#37

Ethyl Acetate

Concen: 9.540 ug/l

RT: 7.338 min Scan# 921

Delta R.T. 0.053 min

Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

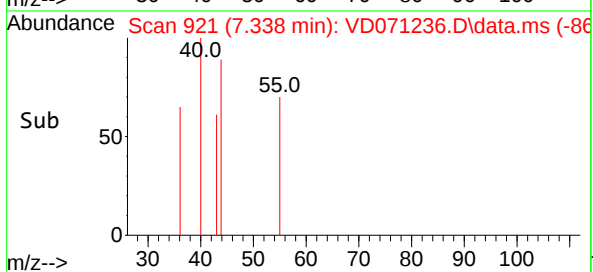
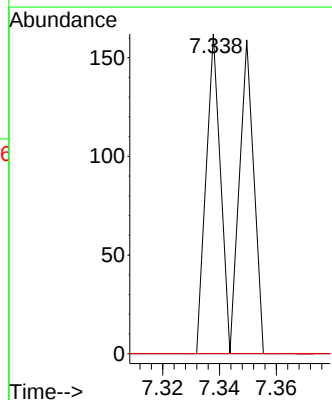
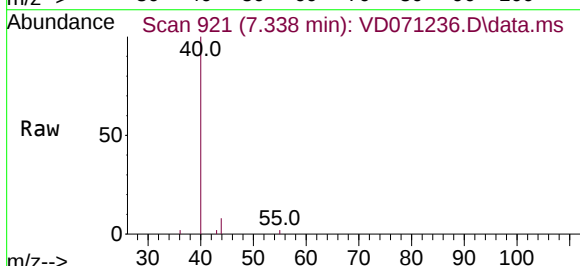
Tgt Ion: 43 Resp: 113

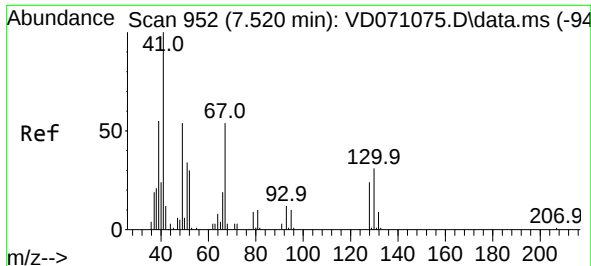
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

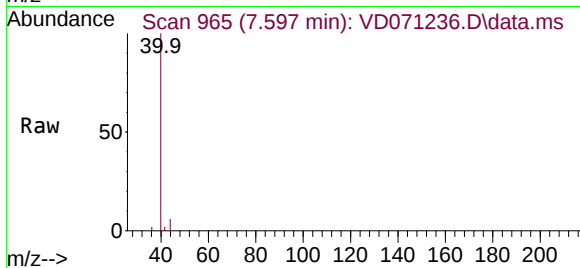
70 0.0 8.7 13.1#



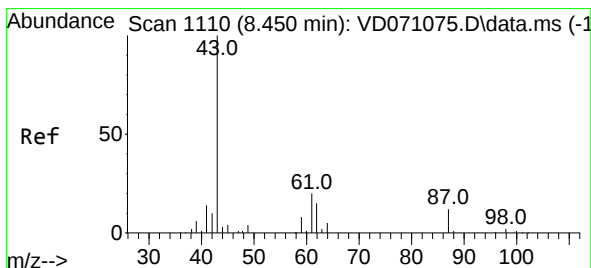
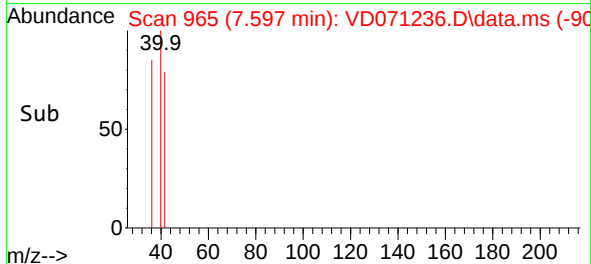
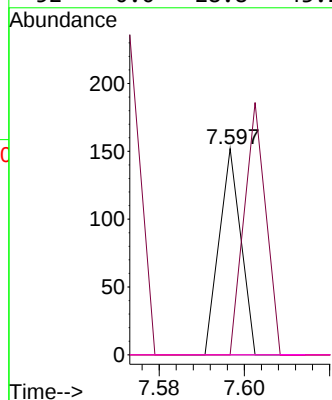


#41
Methacrylonitrile
Concen: 5.709 ug/l
RT: 7.597 min Scan# 90
Delta R.T. 0.077 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Instrument :
MSVOA_D
ClientSampleId :

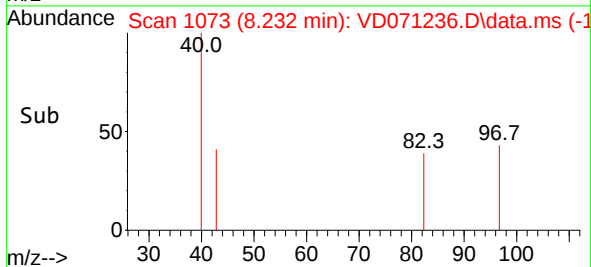
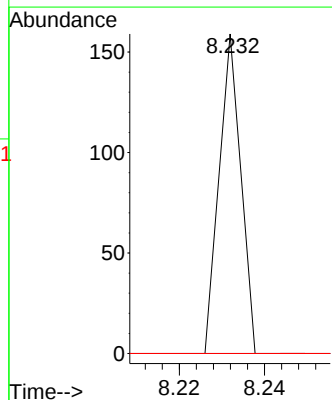
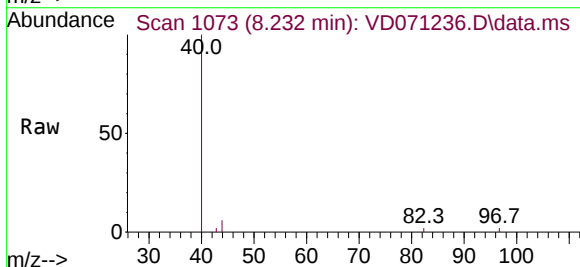


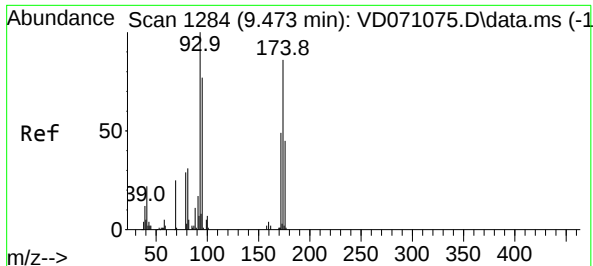
Tgt Ion:	41	Resp:	54
Ion	Ratio	Lower	Upper
41	100		
39	122.2	60.2	90.4#
67	0.0	74.8	112.2#
52	0.0	28.8	43.2#



#43
Isopropyl Acetate
Concen: 7.147 ug/l
RT: 8.232 min Scan# 1073
Delta R.T. -0.218 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion:	43	Resp:	56
Ion	Ratio	Lower	Upper
43	100		
61	0.0	28.2	42.4#
87	0.0	10.7	16.1#





#46

Dibromomethane

Concen: 5.904 ug/l

RT: 9.491 min Scan# 1284

Delta R.T. 0.018 min

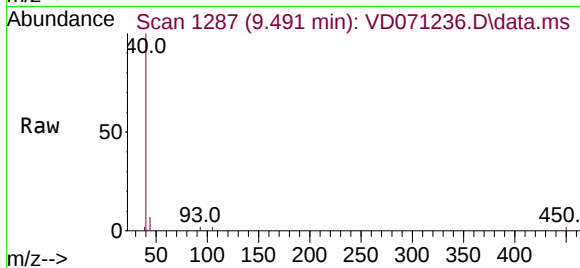
Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

Instrument :

MSVOA_D

ClientSampleId :



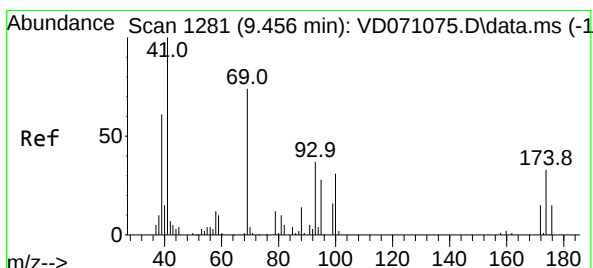
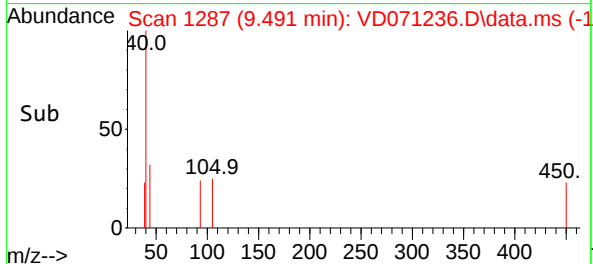
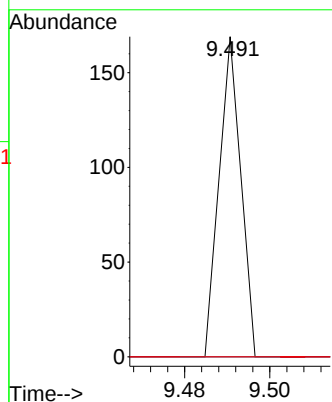
Tgt Ion: 93 Resp: 60

Ion Ratio Lower Upper

93 100

95 0.0 66.1 99.1#

174 0.0 78.6 117.8#



#48

Methyl methacrylate

Concen: 6.727 ug/l

RT: 9.338 min Scan# 1261

Delta R.T. -0.118 min

Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

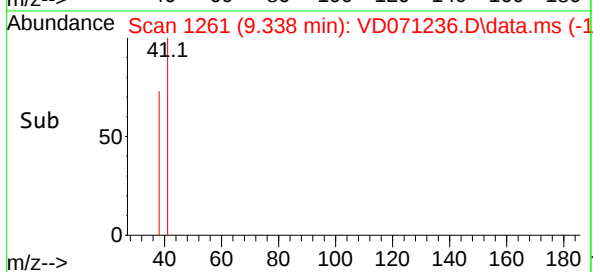
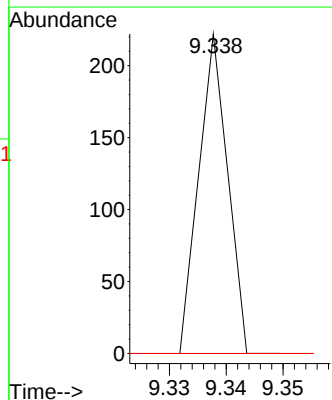
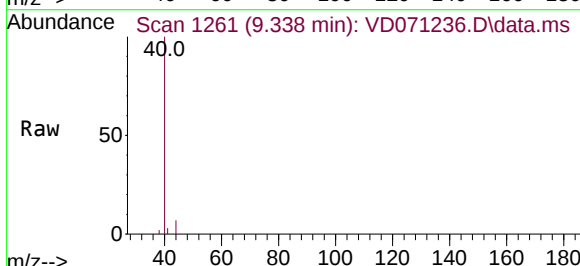
Tgt Ion: 41 Resp: 78

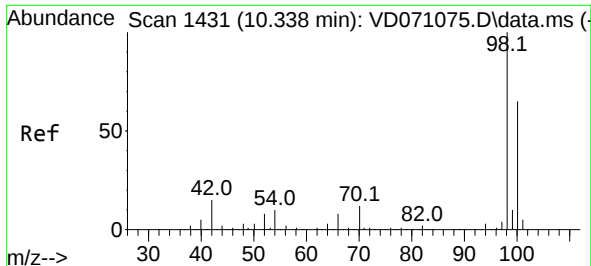
Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#

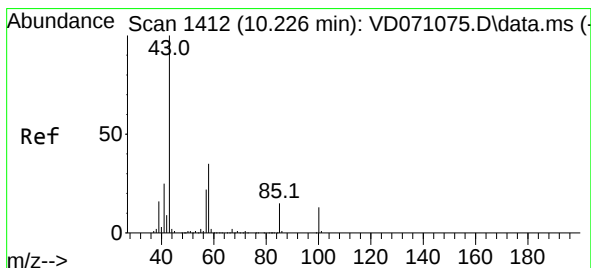
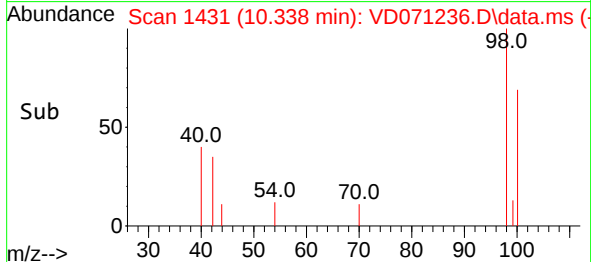
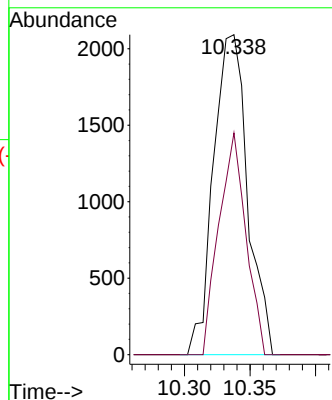
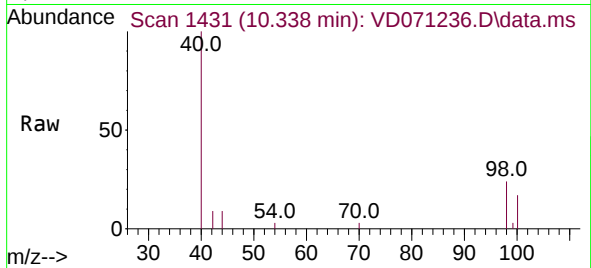




#50
Toluene-d8
Concen: 53.221 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

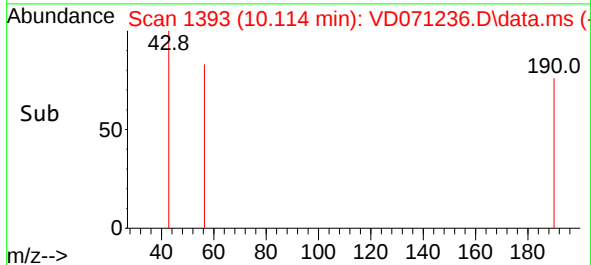
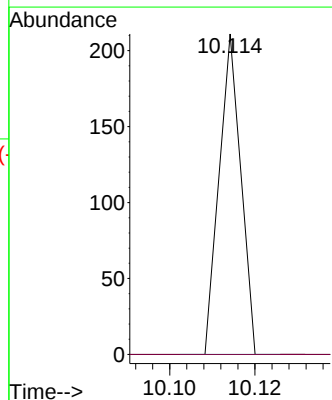
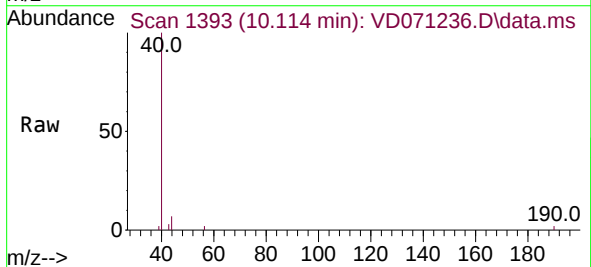
Instrument :
MSVOA_D
ClientSampleId :

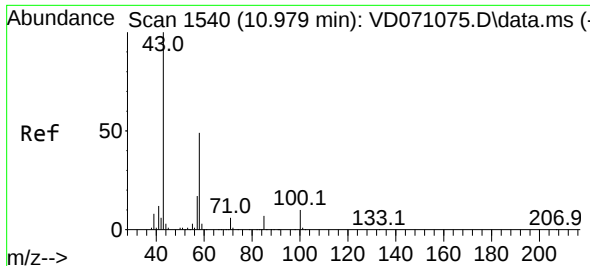
Tgt Ion: 98 Resp: 3784
Ion Ratio Lower Upper
98 100
100 54.8 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 35.513 ug/l
RT: 10.114 min Scan# 1393
Delta R.T. -0.112 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion: 43 Resp: 74
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

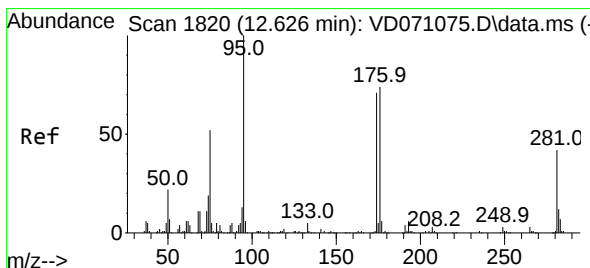
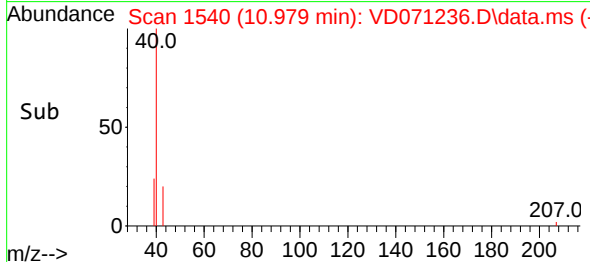
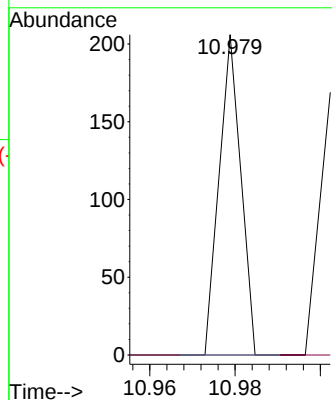
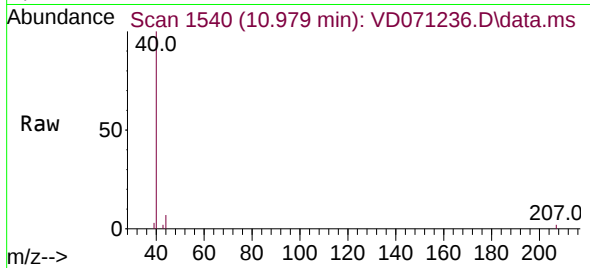




#59
2-Hexanone
Concen: 40.824 ug/l
RT: 10.979 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

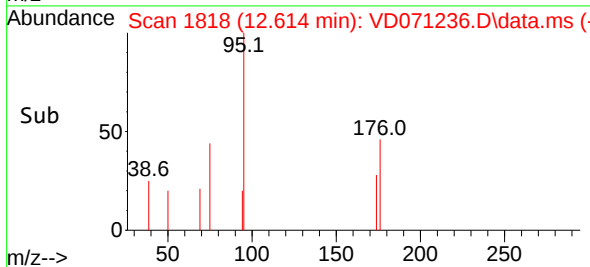
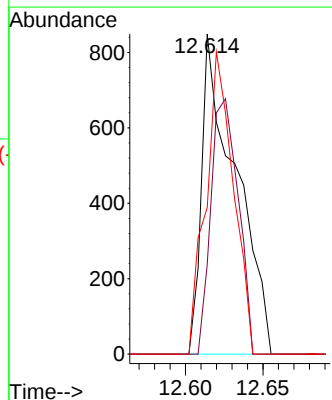
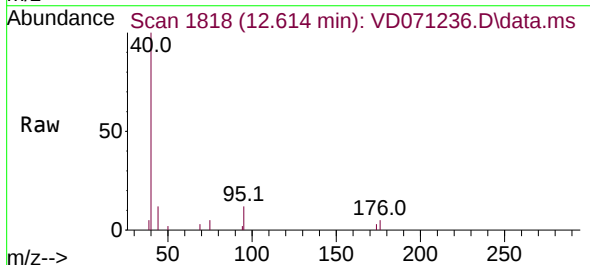
Instrument :
MSVOA_D
ClientSampleId :

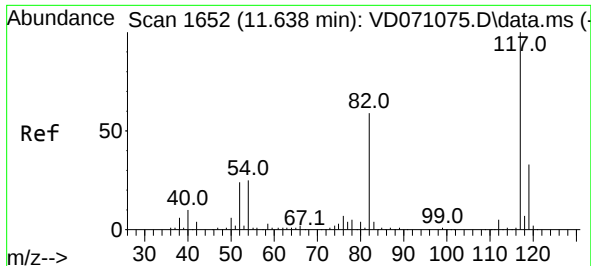
Tgt Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 52.139 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.012 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion: 95 Resp: 1285
Ion Ratio Lower Upper
95 100
174 64.5 0.0 159.4
176 77.0 0.0 154.0

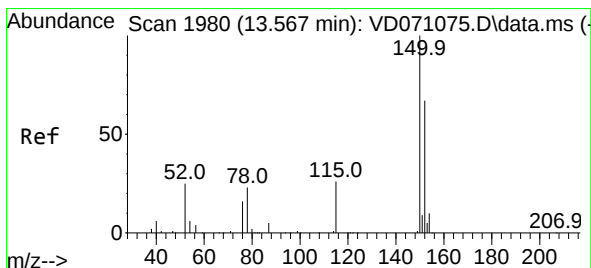
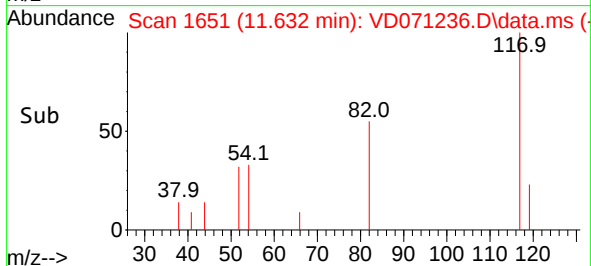
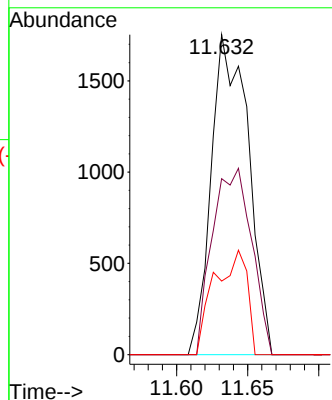
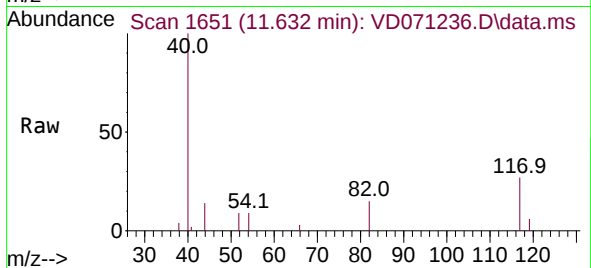




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.632 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

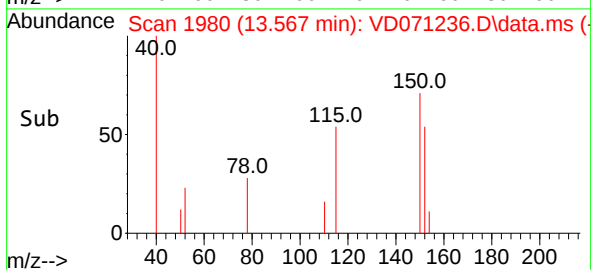
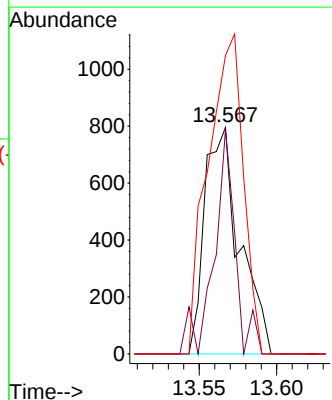
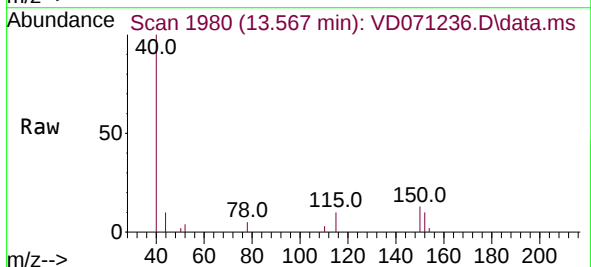
Instrument :
MSVOA_D
ClientSampleId :

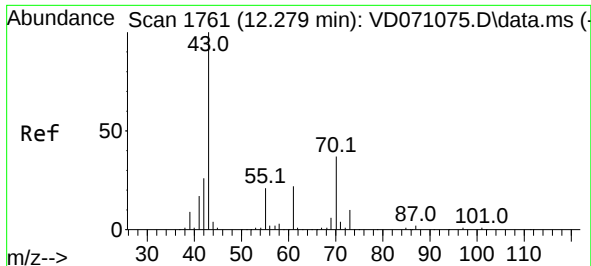
Tgt Ion:117 Resp: 3180
Ion Ratio Lower Upper
117 100
82 55.0 44.7 67.1
119 23.0 26.2 39.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

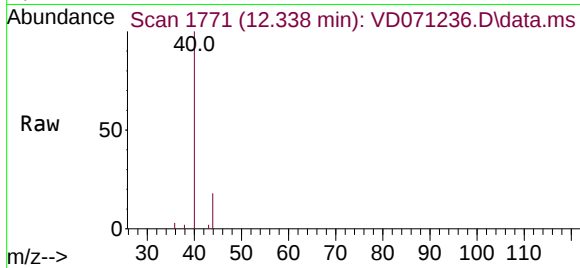
Tgt Ion:152 Resp: 1246
Ion Ratio Lower Upper
152 100
115 60.0 29.8 89.3
150 142.4 0.0 349.2



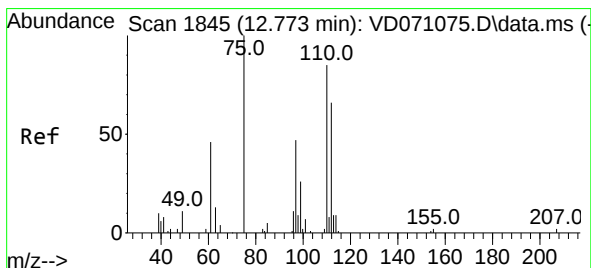
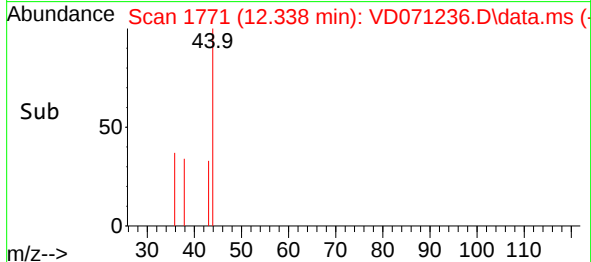
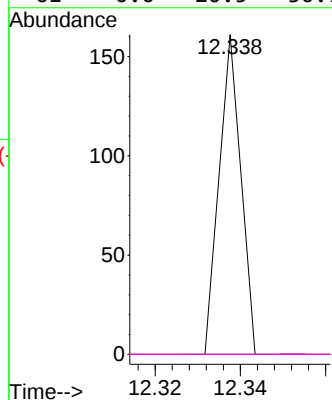


#74
N-amy1 acetate
Concen: 7.746 ug/l
RT: 12.338 min Scan# 11
Delta R.T. 0.059 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Instrument :
MSVOA_D
ClientSampleId :

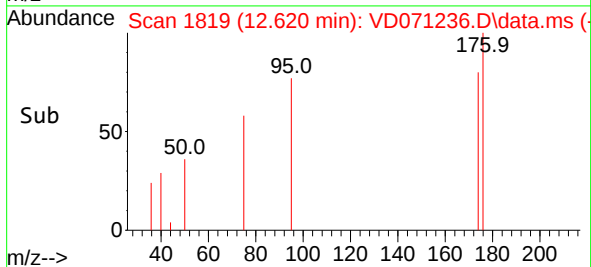
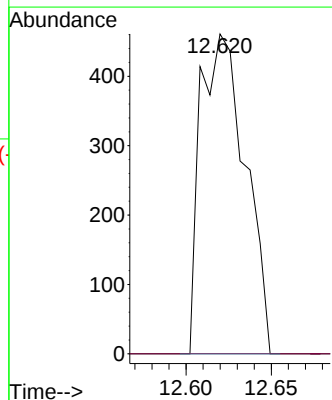
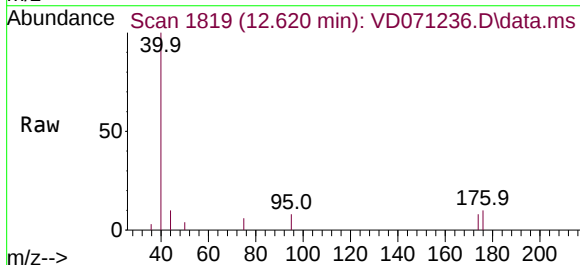


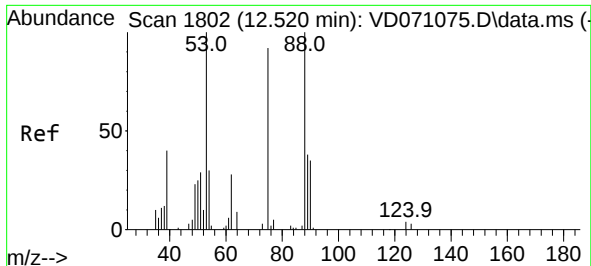
Tgt Ion: 43	Resp: 57
Ion Ratio	Lower Upper
43 100	
70 0.0	36.6 55.0#
55 0.0	22.5 33.7#
61 0.0	20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 70.927 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion: 75	Resp: 842
Ion Ratio	Lower Upper
75 100	
77 0.0	158.4 475.3#

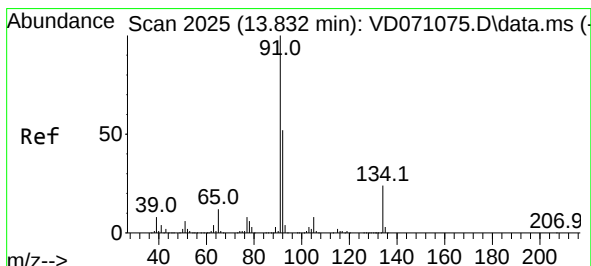
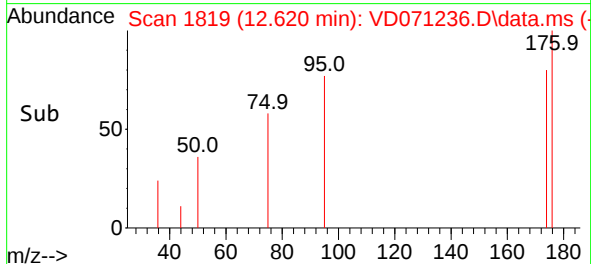
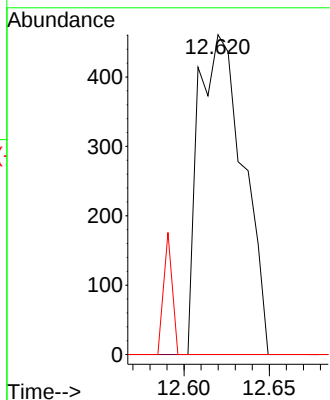
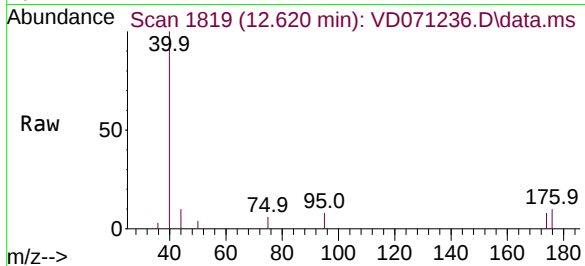




#81
trans-1,4-Dichloro-2-butene
Concen: 152.511 ug/l
RT: 12.620 min Scan# 1802
Delta R.T. 0.100 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

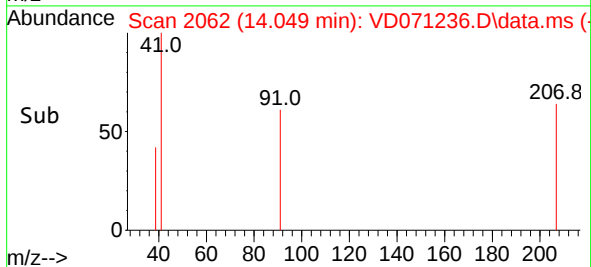
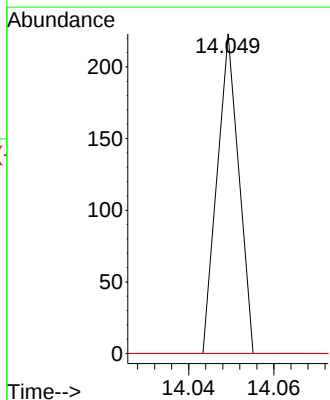
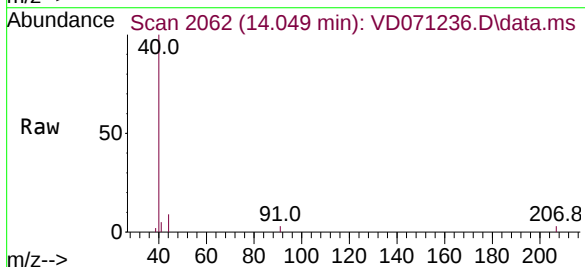
Instrument :
MSVOA_D
ClientSampleId :

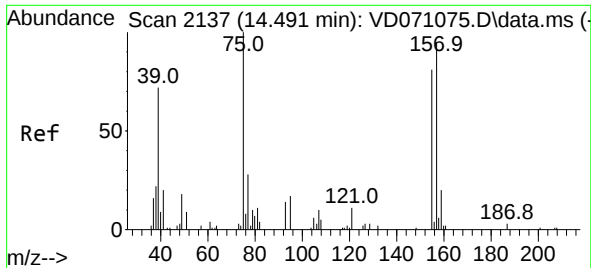
Tgt Ion: 75 Resp: 842
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#



#89
n-Butylbenzene
Concen: 1.014 ug/l
RT: 14.049 min Scan# 2062
Delta R.T. 0.217 min
Lab File: VD071236.D
Acq: 09 Dec 2021 18:54

Tgt Ion: 91 Resp: 79
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: 26.451 ug/l

RT: 14.320 min Scan# 21

Delta R.T. -0.171 min

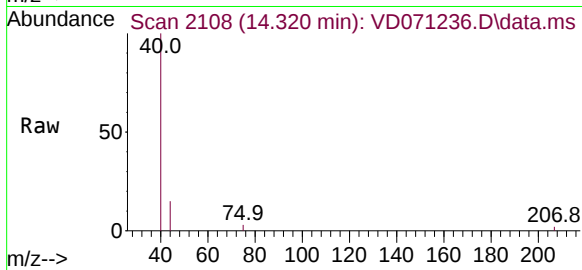
Lab File: VD071236.D

Acq: 09 Dec 2021 18:54

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

155 0.0 40.0 120.0#

157 0.0 49.8 149.3#

