

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121321\
 Data File : VD071296.D
 Acq On : 13 Dec 2021 15:03
 Operator : VA/SY
 Sample : M5017-49RE
 Misc : 5.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP1-BRE

Quant Time: Dec 14 08:14:02 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

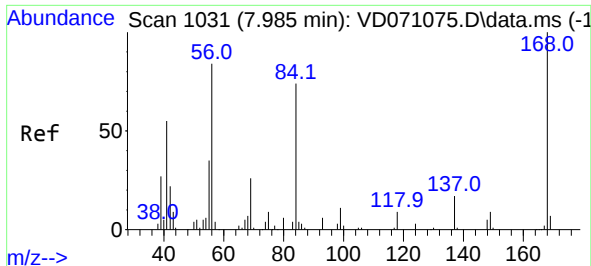
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.990	168	2783	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	4272	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.631	117	4393	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	1975	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	1663	50.926	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 101.860%	
35) Dibromofluoromethane	7.914	113	1332	48.964	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 97.920%	
50) Toluene-d8	10.337	98	5189	50.124	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 100.240%	
62) 4-Bromofluorobenzene	12.620	95	2337	65.124	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 130.240%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.238	50	78	2.484	ug/l #	42
6) Chloroethane	2.961	64	72	2.988	ug/l #	39
7) Trichlorofluoromethane	3.450	101	57	1.201	ug/l #	19
12) 1,1-Dichloroethene	4.244	96	56	2.168	ug/l #	1
13) Acrolein	3.691	56	65	29.128	ug/l #	13
14) Allyl chloride	4.697	41	63	1.284	ug/l #	35
16) Acetone	4.150	43	70	37.874	ug/l #	40
18) Methyl Acetate	4.849	43	108	4.483	ug/l #	51
20) Methylene Chloride	4.949	84	70	Below Cal	#	30
23) Vinyl Acetate	6.332	43	82	28.593	ug/l #	72
25) 2-Butanone	7.202	43	88	36.149	ug/l #	45
26) 2,2-Dichloropropane	7.249	77	64	1.245	ug/l #	52
27) cis-1,2-Dichloroethene	7.367	96	77	2.340	ug/l #	1
28) Bromochloromethane	7.708	49	62	2.524	ug/l #	14
29) Tetrahydrofuran	7.532	42	66	12.728	ug/l #	34
36) 1,1-Dichloropropene	8.108	75	63	1.578	ug/l #	41
37) Ethyl Acetate	7.202	43	88	5.102	ug/l #	66
38) Carbon Tetrachloride	7.990	117	98	2.490	ug/l #	12
41) Methacrylonitrile	7.314	41	74	4.710	ug/l #	13
43) Isopropyl Acetate	8.332	43	63	6.710	ug/l #	16
48) Methyl methacrylate	9.520	41	60	3.554	ug/l #	15
51) 4-Methyl-2-Pentanone	10.185	43	58	33.268	ug/l #	12
53) t-1,3-Dichloropropene	10.561	75	91	2.529	ug/l #	44
56) Ethyl methacrylate	10.832	69	70	8.176	ug/l #	1
59) 2-Hexanone	11.190	43	94	40.101	ug/l #	22
74) N-amyl acetate	12.279	43	126	8.552	ug/l #	40
76) 1,2,3-Trichloropropane	12.626	75	1119	59.468	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.514	75	55	11.820	ug/l #	18

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

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Quant Title : SW846 8260
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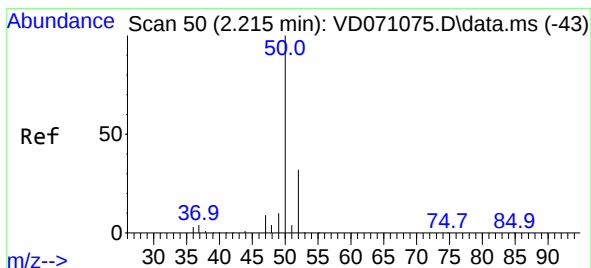
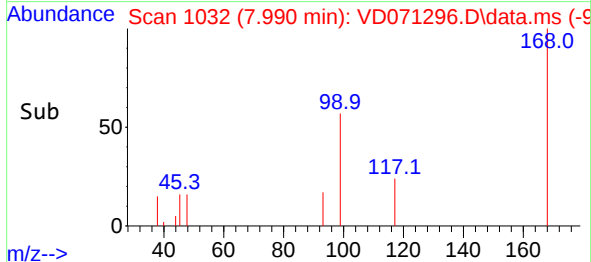
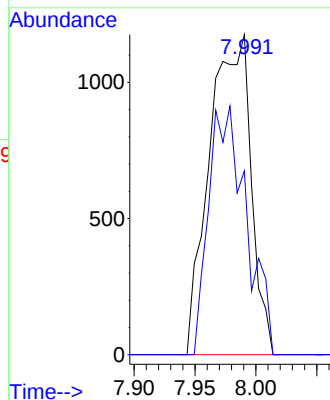
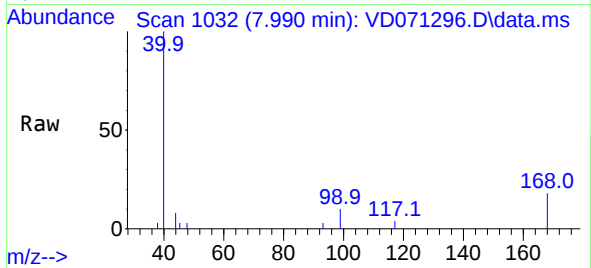




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.990 min Scan# 10
Delta R.T. 0.005 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

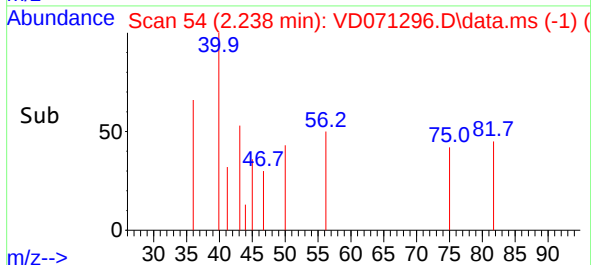
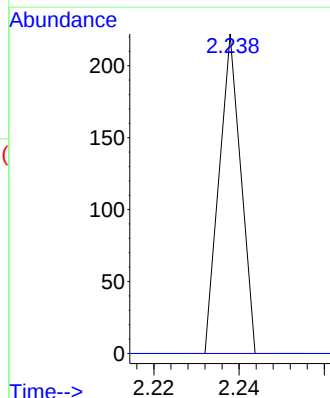
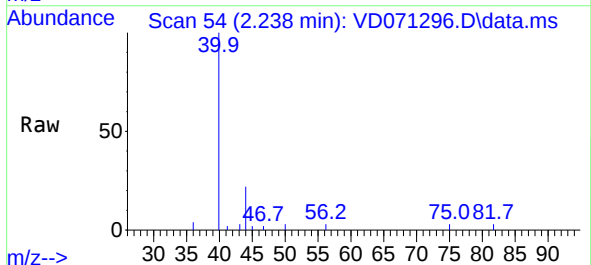
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

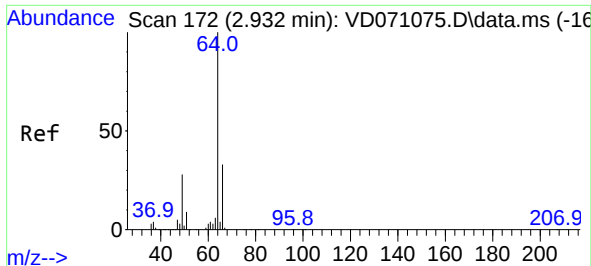
Tgt Ion:168 Resp: 2783
Ion Ratio Lower Upper
168 100
99 57.4 46.6 69.8



#3
Chloromethane
Concen: 2.484 ug/l
RT: 2.238 min Scan# 54
Delta R.T. 0.023 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 50 Resp: 78
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

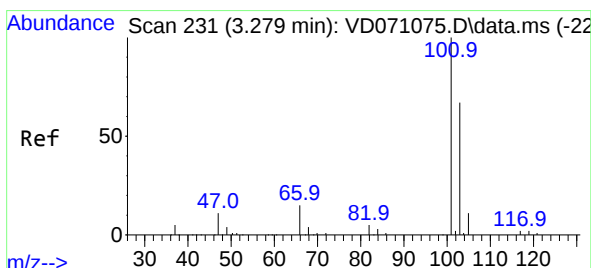
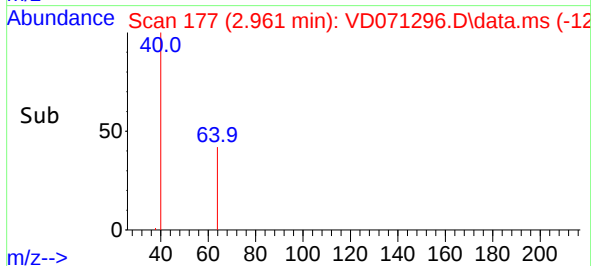
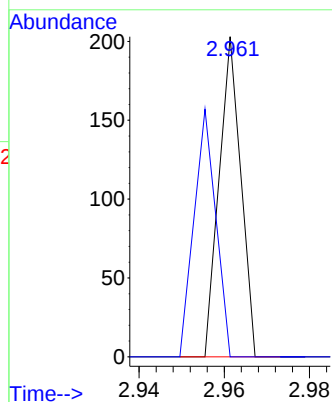
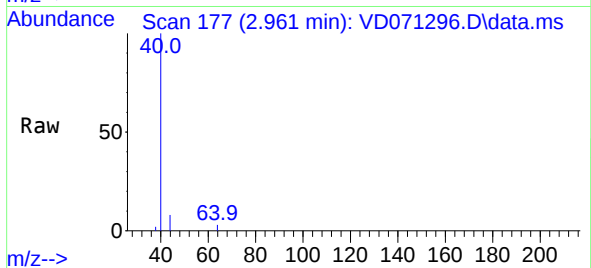




#6
Chloroethane
Concen: 2.988 ug/l
RT: 2.961 min Scan# 11
Delta R.T. 0.029 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

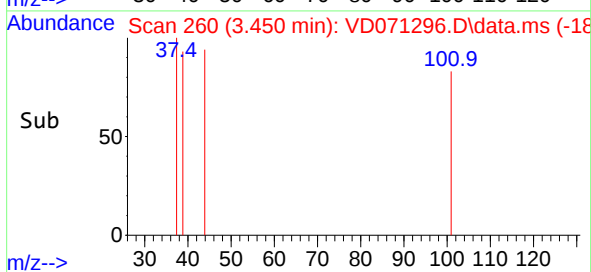
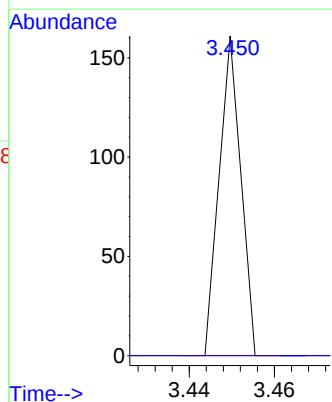
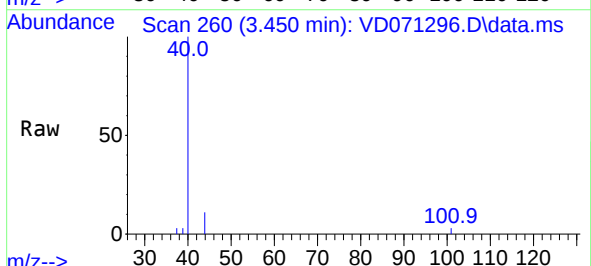
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

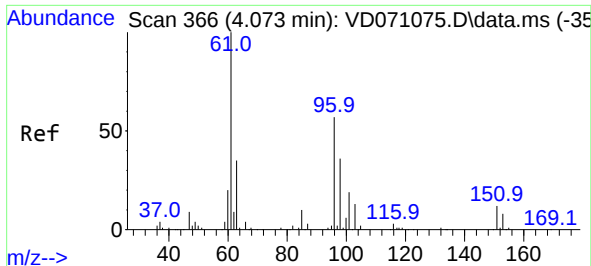
Tgt Ion: 64 Resp: 72
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



#7
Trichlorofluoromethane
Concen: 1.201 ug/l
RT: 3.450 min Scan# 260
Delta R.T. 0.171 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 101 Resp: 57
Ion Ratio Lower Upper
101 100
103 0.0 49.7 74.5#





#12

1,1-Dichloroethene

Concen: 2.168 ug/l

RT: 4.244 min Scan# 301

Delta R.T. 0.171 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

Instrument :

MSVOA_D

ClientSampleId :

SP1-BRE

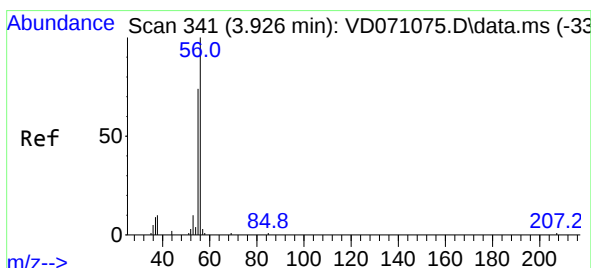
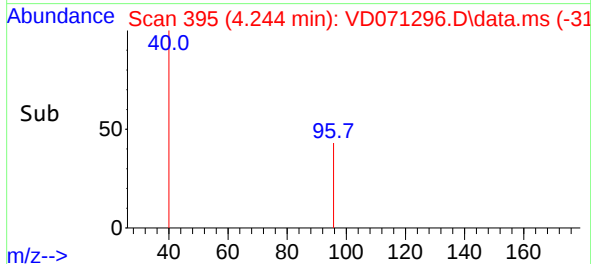
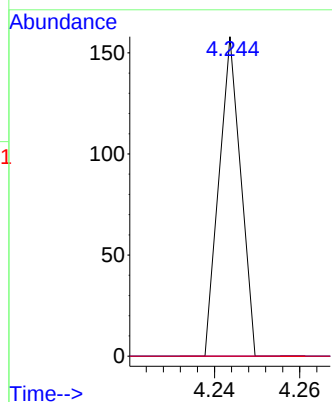
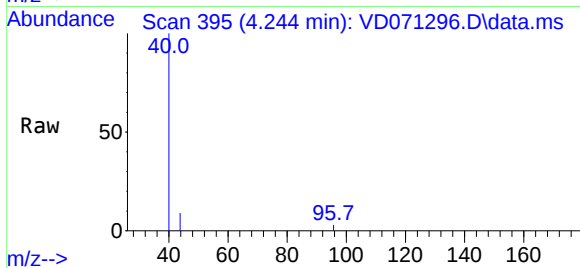
Tgt Ion: 96 Resp: 56

Ion Ratio Lower Upper

96 100

61 0.0 120.3 180.5#

98 0.0 54.4 81.6#



#13

Acrolein

Concen: 29.128 ug/l

RT: 3.691 min Scan# 301

Delta R.T. -0.235 min

Lab File: VD071296.D

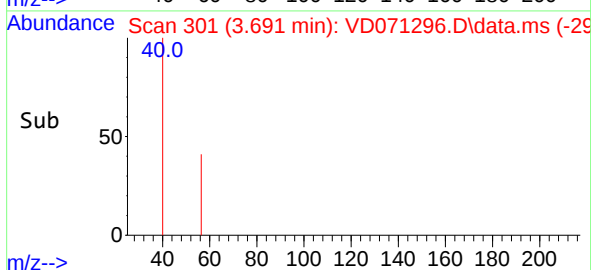
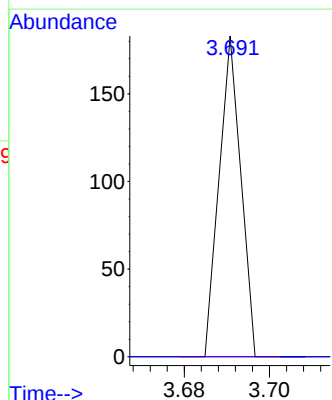
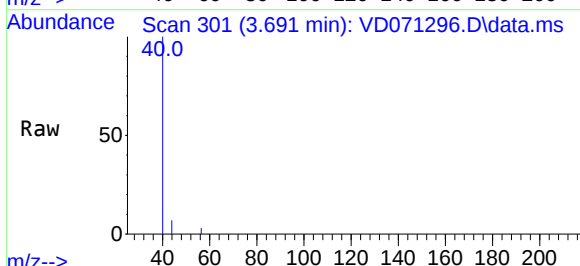
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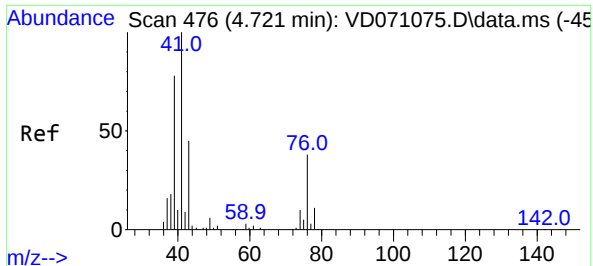
Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 0.0 58.6 87.8#

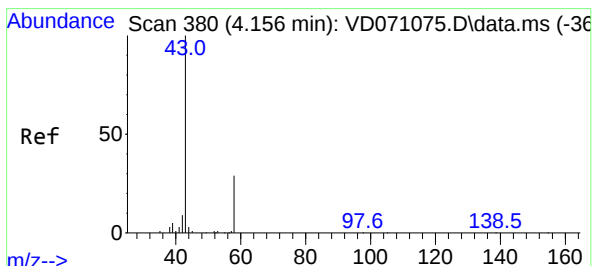
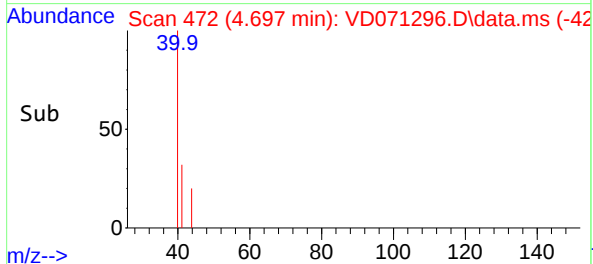
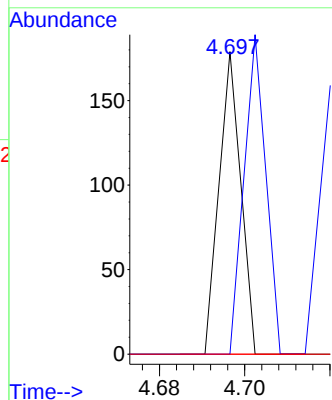
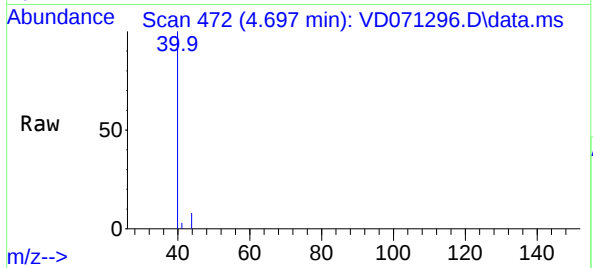




#14
Allyl chloride
Concen: 1.284 ug/l
RT: 4.697 min Scan# 41
Delta R.T. -0.024 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

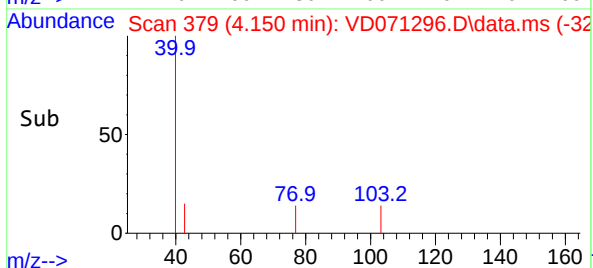
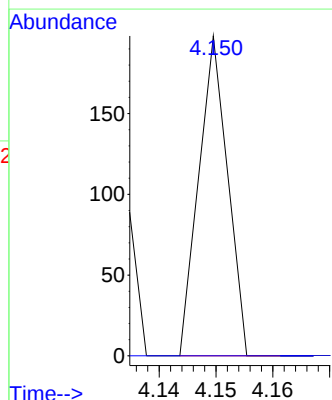
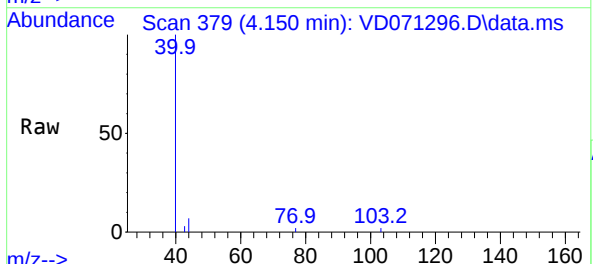
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

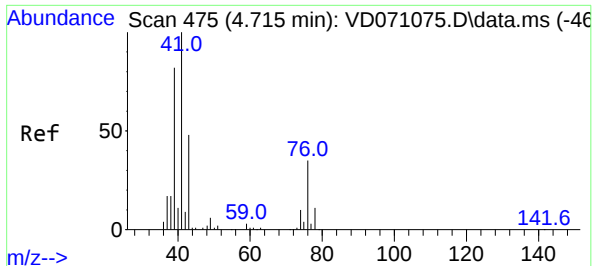
Tgt Ion: 41 Resp: 63
Ion Ratio Lower Upper
41 100
39 106.3 45.6 68.4#
76 0.0 30.2 45.4#



#16
Acetone
Concen: 37.874 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#





#18

Methyl Acetate

Concen: 4.483 ug/l

RT: 4.849 min Scan# 49

Delta R.T. 0.134 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

Instrument :

MSVOA_D

ClientSampleId :

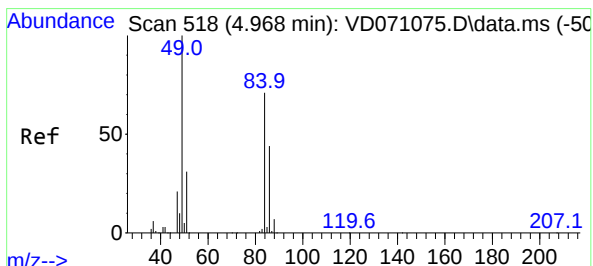
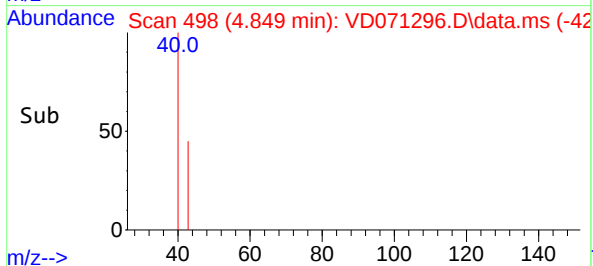
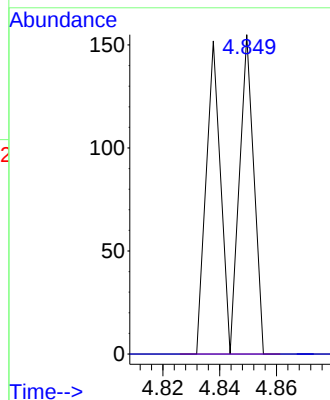
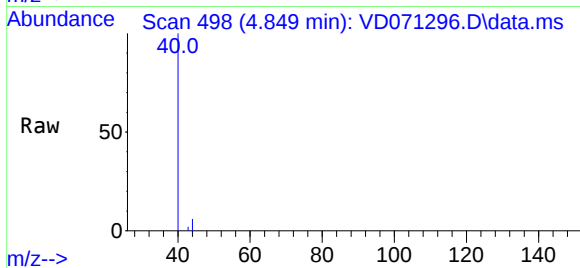
SP1-BRE

Tgt Ion: 43 Resp: 108

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.949 min Scan# 515

Delta R.T. -0.019 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

Tgt Ion: 84 Resp: 70

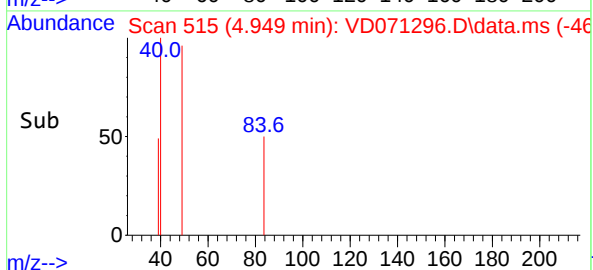
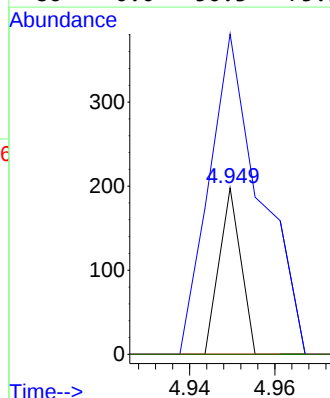
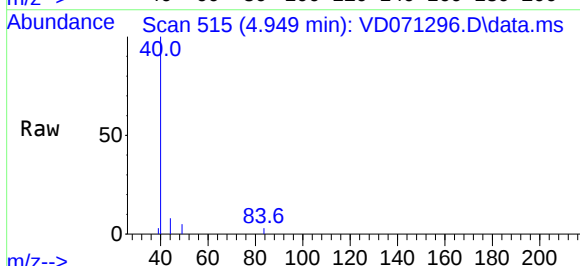
Ion Ratio Lower Upper

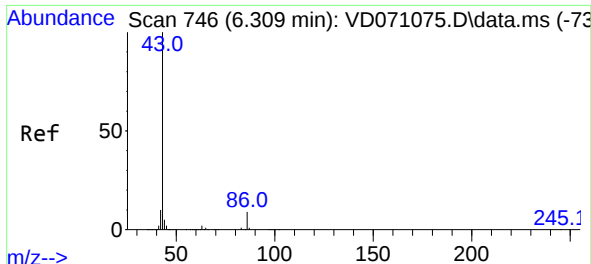
84 100

49 192.4 95.8 143.6#

51 0.0 30.9 46.3#

86 0.0 50.3 75.5#

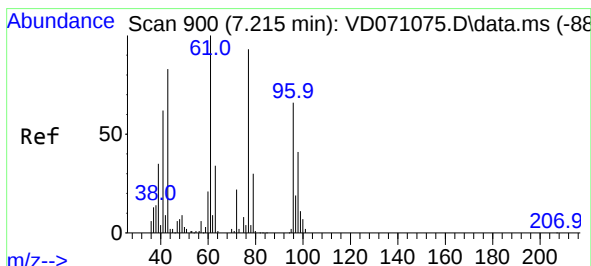
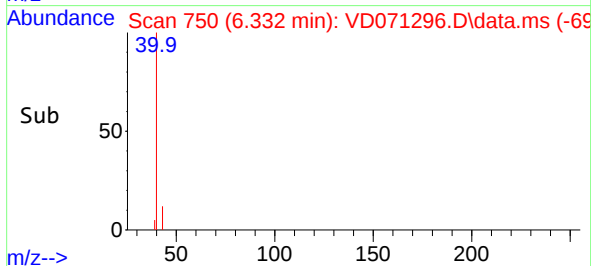
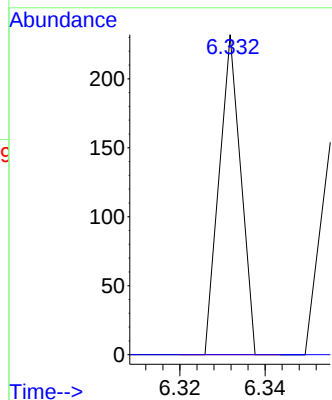
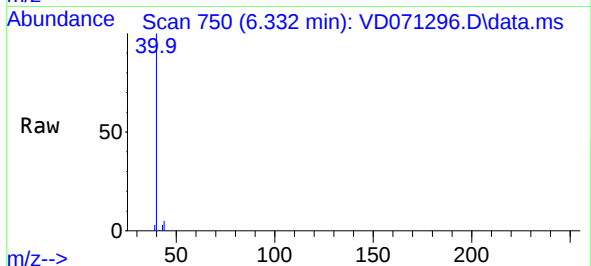




#23
 Vinyl Acetate
 Concen: 28.593 ug/l
 RT: 6.332 min Scan# 71
 Delta R.T. 0.023 min
 Lab File: VD071296.D
 Acq: 13 Dec 2021 15:03

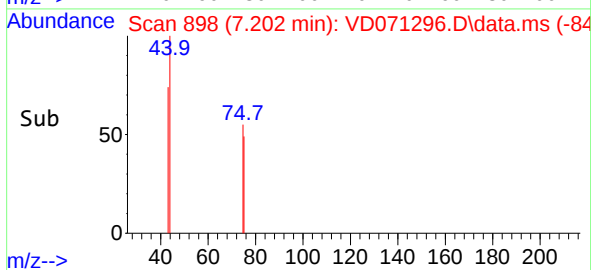
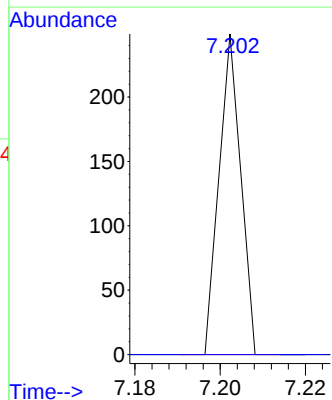
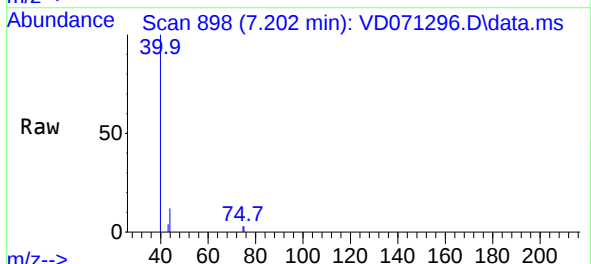
Instrument :
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 ClientSampleId :
 SP1-BRE

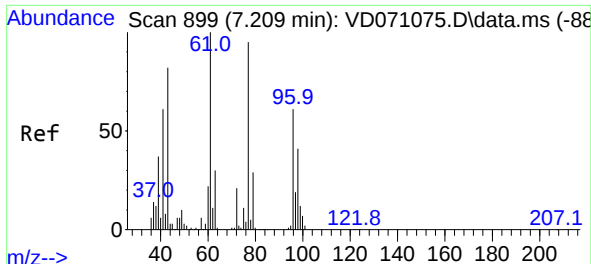
Tgt Ion: 43 Resp: 82
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 36.149 ug/l
 RT: 7.202 min Scan# 898
 Delta R.T. -0.013 min
 Lab File: VD071296.D
 Acq: 13 Dec 2021 15:03

Tgt Ion: 43 Resp: 88
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#26

2,2-Dichloropropane

Concen: 1.245 ug/l

RT: 7.249 min Scan# 906

Delta R.T. 0.040 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

Instrument :

MSVOA_D

ClientSampleId :

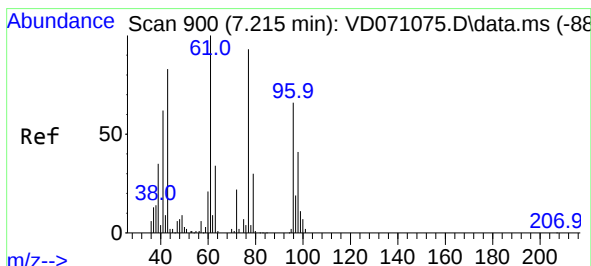
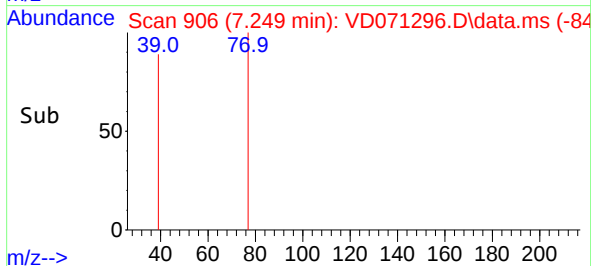
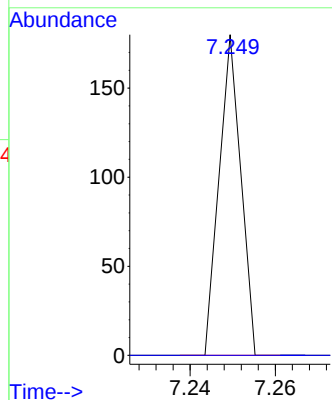
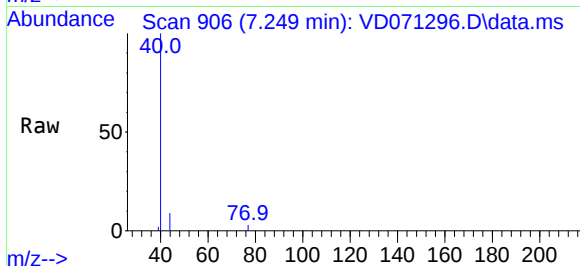
SP1-BRE

Tgt Ion: 77 Resp: 64

Ion Ratio Lower Upper

77 100

97 0.0 11.9 35.5#



#27

cis-1,2-Dichloroethene

Concen: 2.340 ug/l

RT: 7.367 min Scan# 926

Delta R.T. 0.152 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

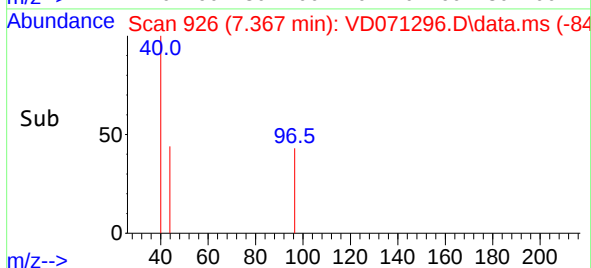
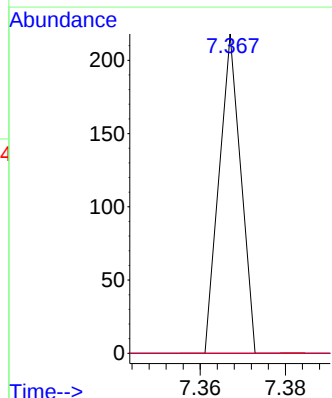
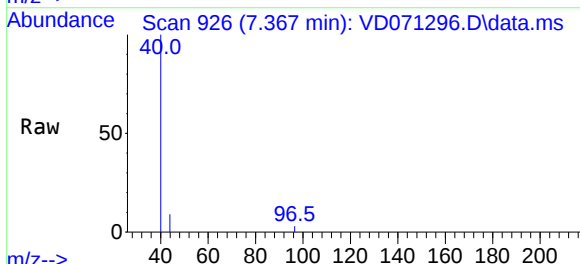
Tgt Ion: 96 Resp: 77

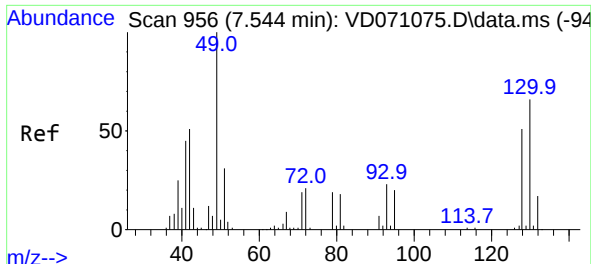
Ion Ratio Lower Upper

96 100

61 0.0 0.0 288.6

98 0.0 0.0 129.2

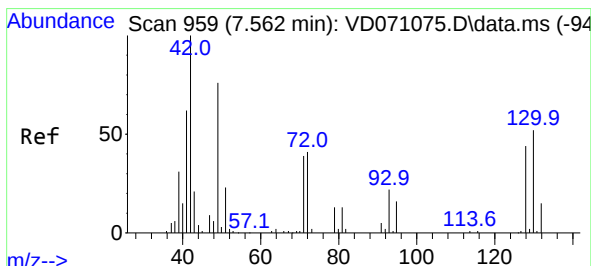
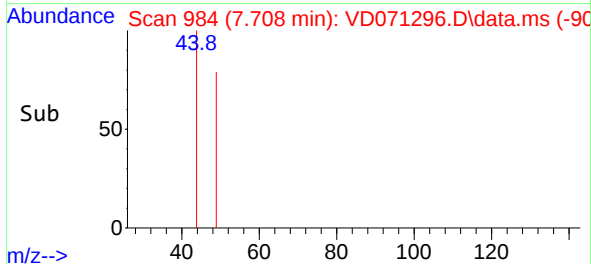
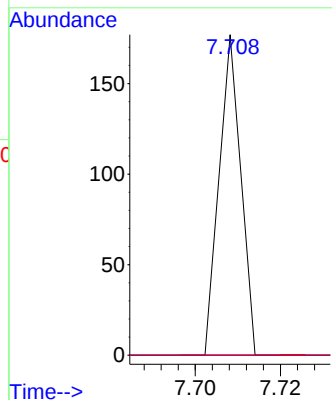
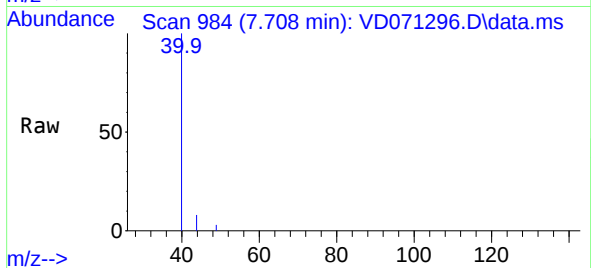




#28
Bromochloromethane
Concen: 2.524 ug/l
RT: 7.708 min Scan# 91
Delta R.T. 0.164 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

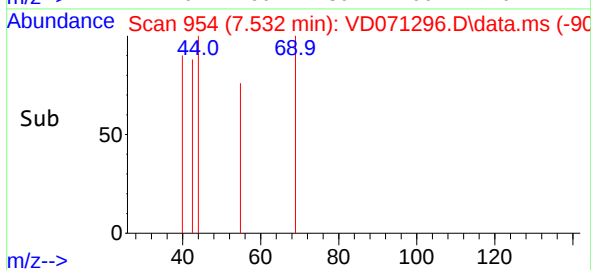
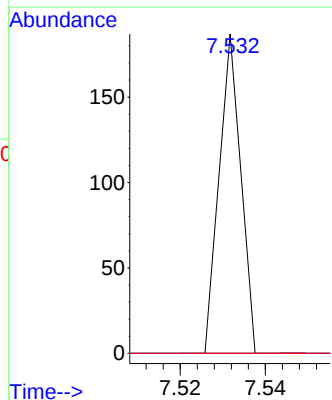
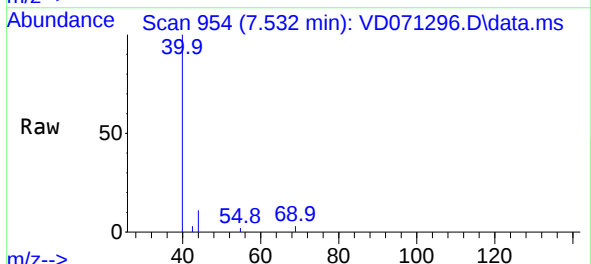
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

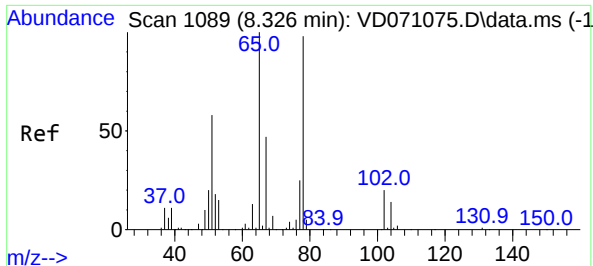
Tgt Ion: 49 Resp: 62
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 60.2 90.2#



#29
Tetrahydrofuran
Concen: 12.728 ug/l
RT: 7.532 min Scan# 954
Delta R.T. -0.030 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 42 Resp: 66
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#

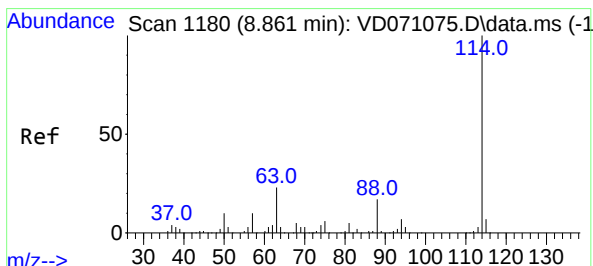
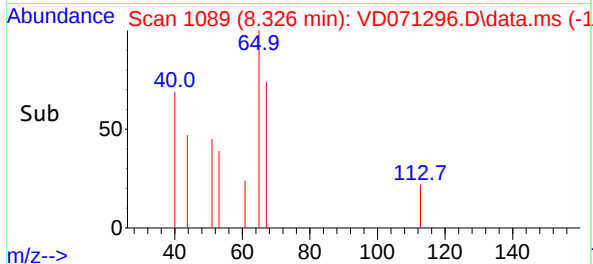
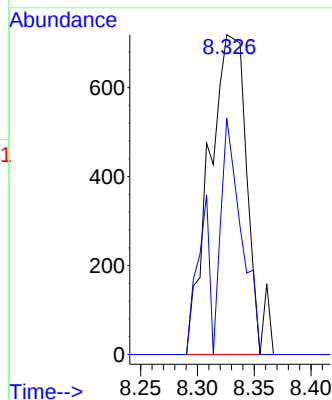
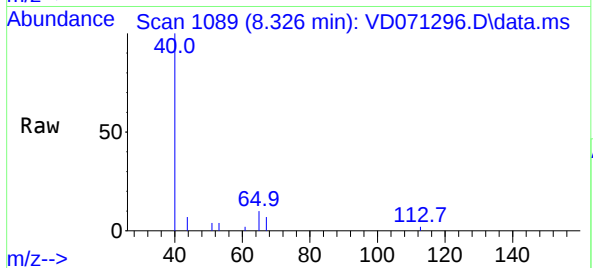




#33
1,2-Dichloroethane-d4
Concen: 50.926 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

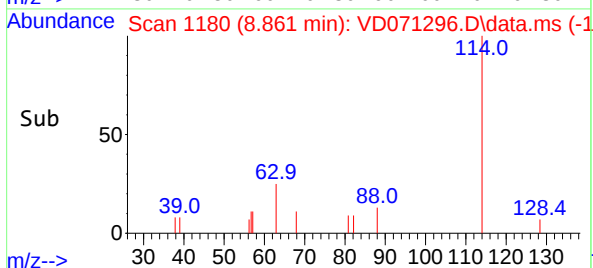
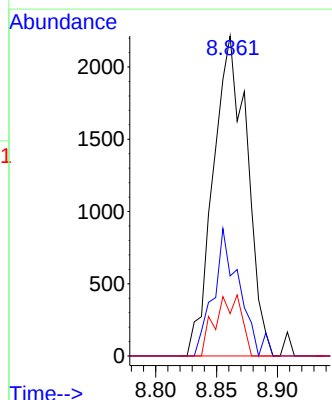
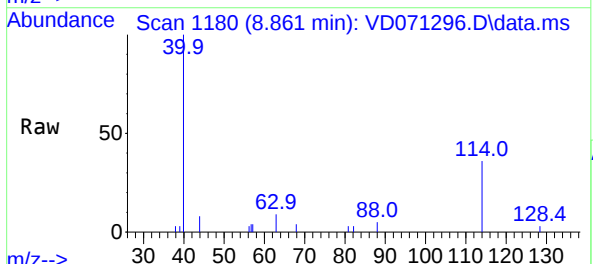
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

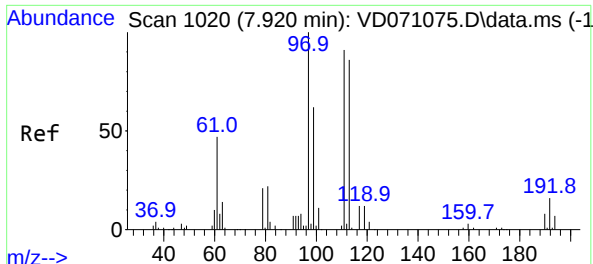
Tgt Ion: 65 Resp: 1663
Ion Ratio Lower Upper
65 100
67 40.0 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 114 Resp: 4272
Ion Ratio Lower Upper
114 100
63 25.0 0.0 41.8
88 13.3 0.0 32.8

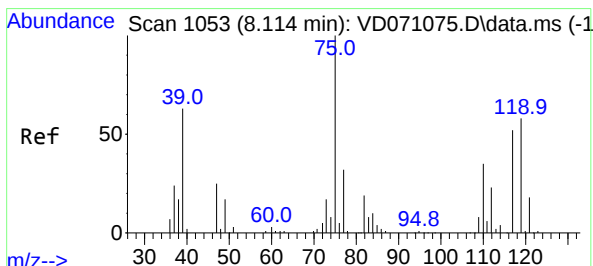
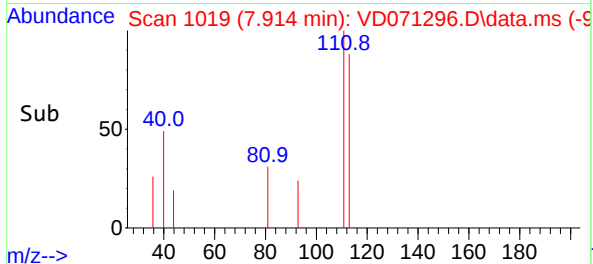
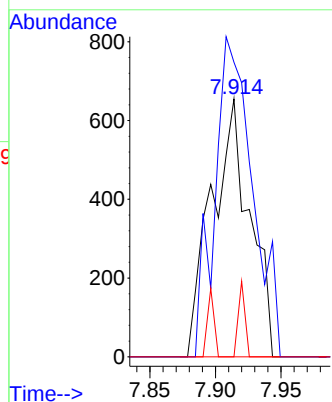
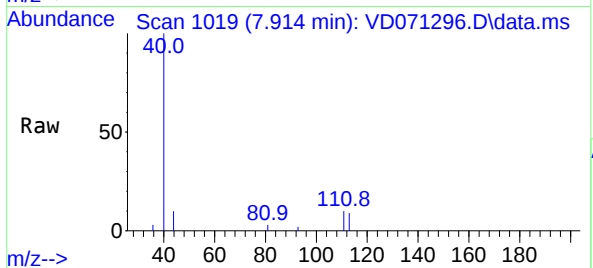




#35
Dibromofluoromethane
Concen: 48.964 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

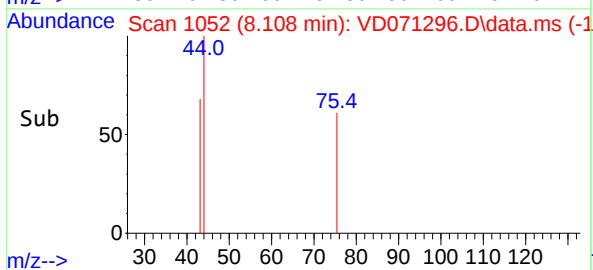
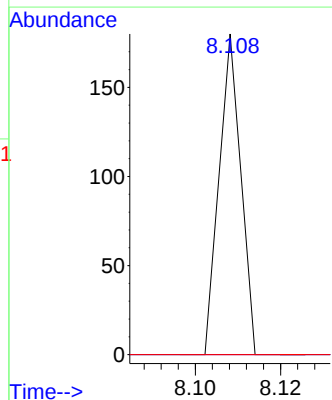
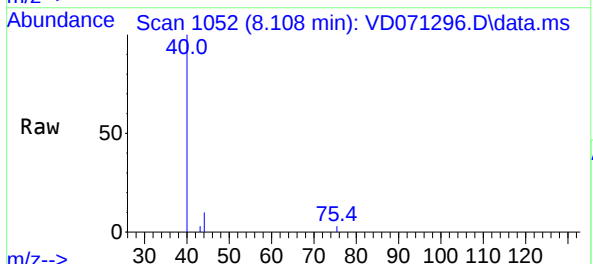
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

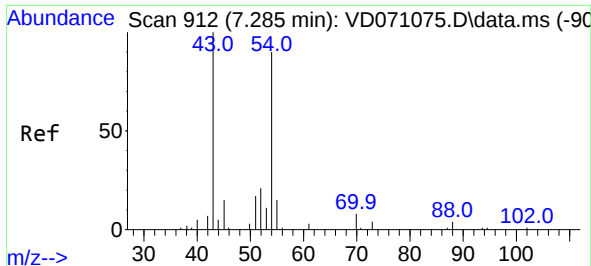
Tgt Ion:113 Resp: 1332
Ion Ratio Lower Upper
113 100
111 123.0 82.0 123.0
192 5.1 15.2 22.8#



#36
1,1-Dichloropropene
Concen: 1.578 ug/l
RT: 8.108 min Scan# 1052
Delta R.T. -0.006 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 75 Resp: 63
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 5.102 ug/l

RT: 7.202 min Scan# 89

Delta R.T. -0.083 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

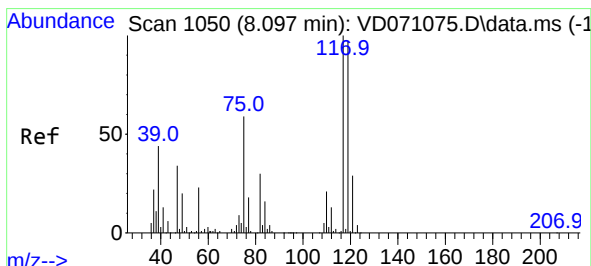
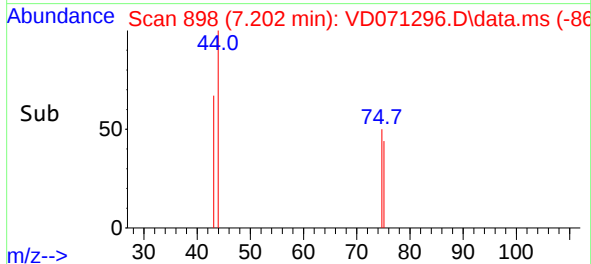
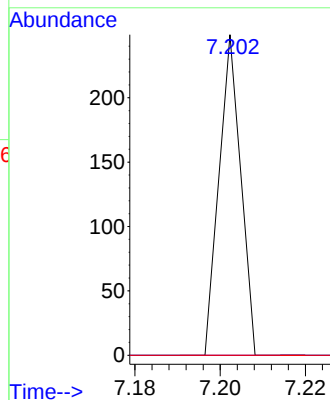
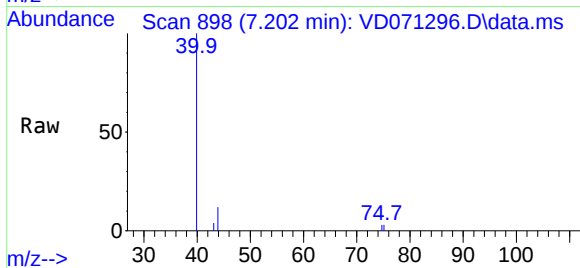
Instrument :

MSVOA_D

ClientSampleId :

SP1-BRE

Tgt Ion:	43	Resp:	88
Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.0	19.6#
70	0.0	8.7	13.1#



#38

Carbon Tetrachloride

Concen: 2.490 ug/l

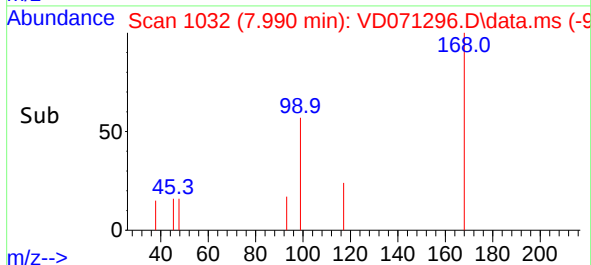
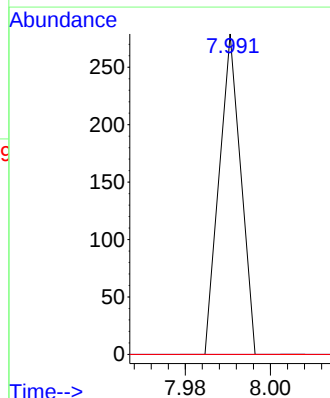
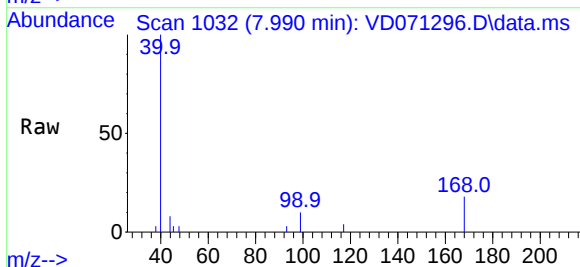
RT: 7.990 min Scan# 1032

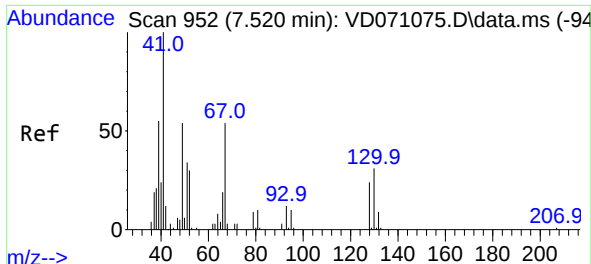
Delta R.T. -0.106 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

Tgt Ion:	117	Resp:	98
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.6#
121	0.0	23.6	35.4#

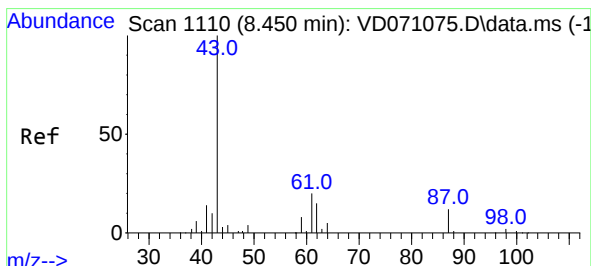
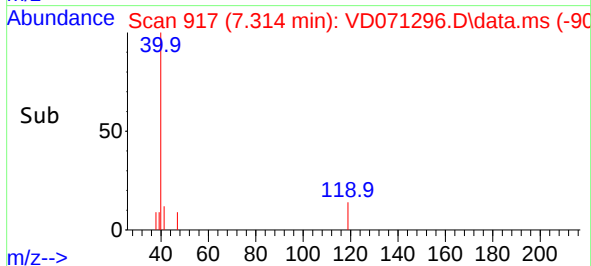
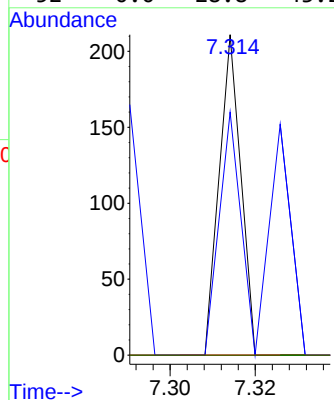
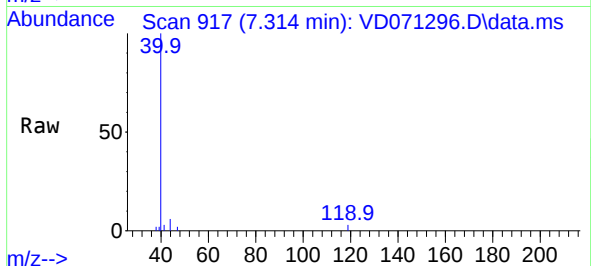




#41
Methacrylonitrile
Concen: 4.710 ug/l
RT: 7.314 min Scan# 91
Delta R.T. -0.206 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

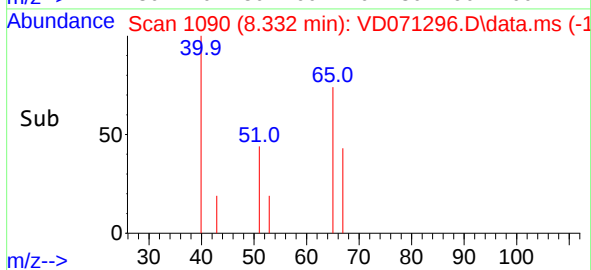
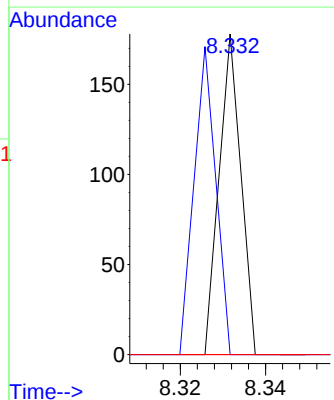
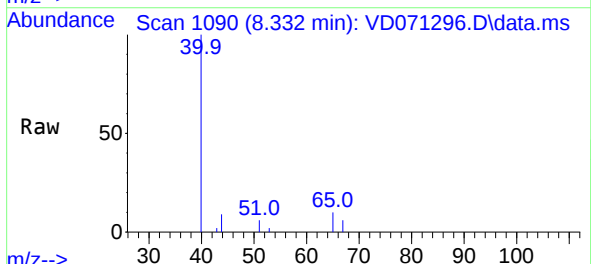
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

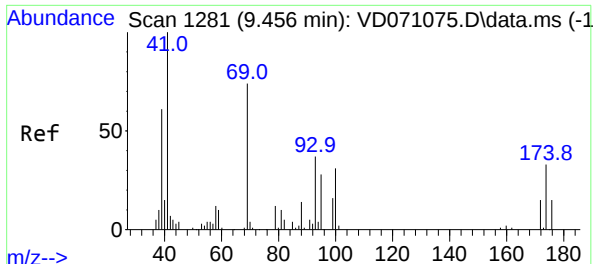
Tgt Ion:	41	Resp:	74
Ion	Ratio	Lower	Upper
41	100		
39	148.6	60.2	90.4#
67	0.0	74.8	112.2#
52	0.0	28.8	43.2#



#43
Isopropyl Acetate
Concen: 6.710 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.118 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion:	43	Resp:	63
Ion	Ratio	Lower	Upper
43	100		
61	95.2	28.2	42.4#
87	0.0	10.7	16.1#





#48

Methyl methacrylate

Concen: 3.554 ug/l

RT: 9.520 min Scan# 11

Delta R.T. 0.064 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

Instrument :

MSVOA_D

ClientSampleId :

SP1-BRE

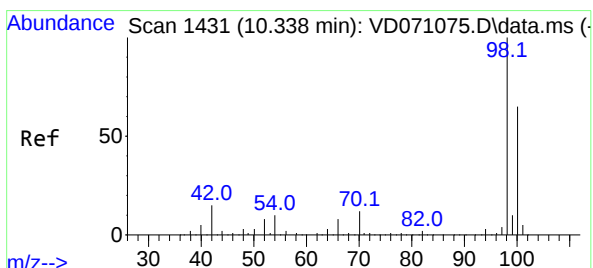
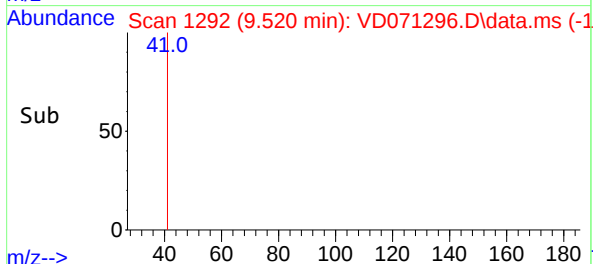
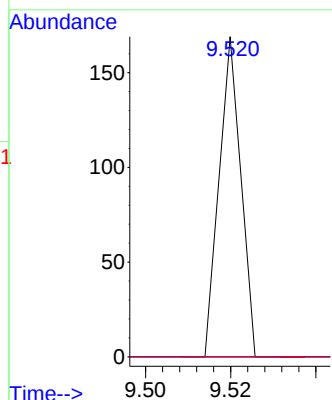
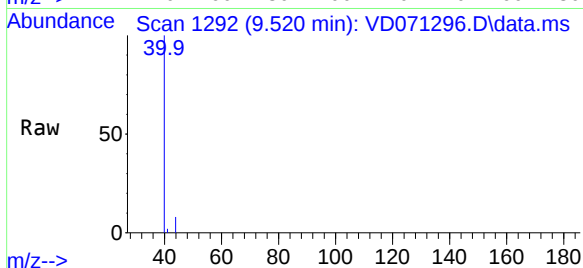
Tgt Ion: 41 Resp: 60

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#



#50

Toluene-d8

Concen: 50.124 ug/l

RT: 10.337 min Scan# 1431

Delta R.T. -0.001 min

Lab File: VD071296.D

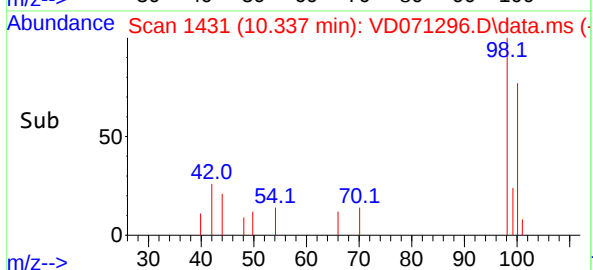
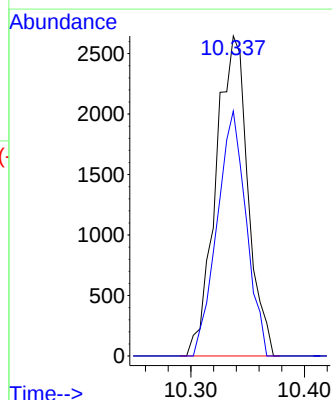
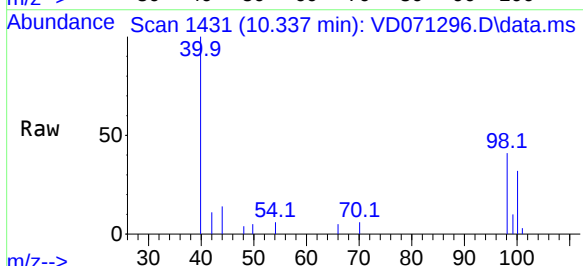
Acq: 13 Dec 2021 15:03

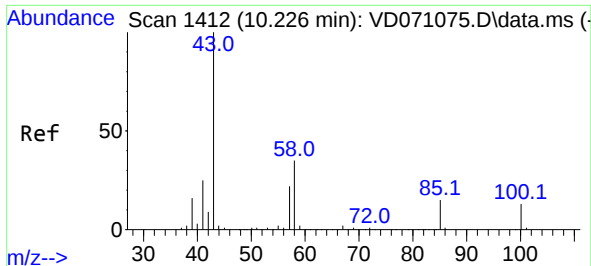
Tgt Ion: 98 Resp: 5189

Ion Ratio Lower Upper

98 100

100 69.5 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 33.268 ug/l

RT: 10.185 min Scan# 1412

Delta R.T. -0.042 min

Lab File: VD071296.D

Acq: 13 Dec 2021 15:03

Instrument :

MSVOA_D

ClientSampleId :

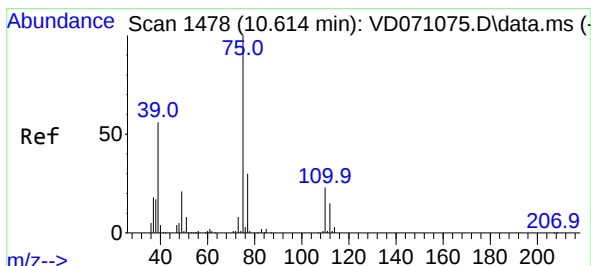
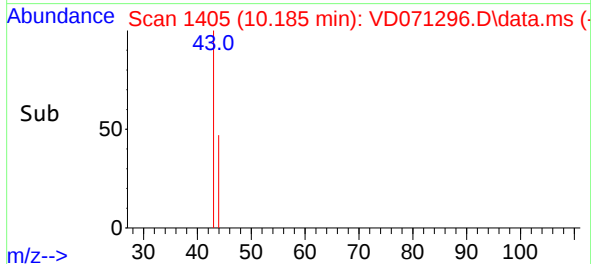
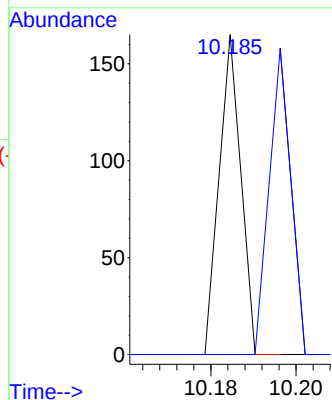
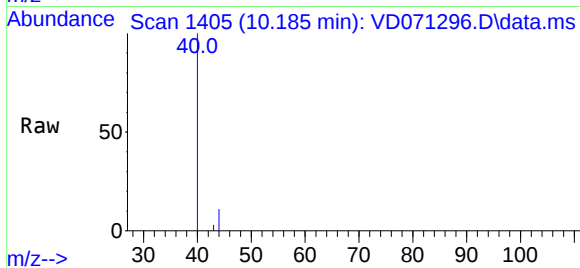
SP1-BRE

Tgt Ion: 43 Resp: 58

Ion Ratio Lower Upper

43 100

58 96.6 33.1 49.7#



#53

t-1,3-Dichloropropene

Concen: 2.529 ug/l

RT: 10.561 min Scan# 1469

Delta R.T. -0.053 min

Lab File: VD071296.D

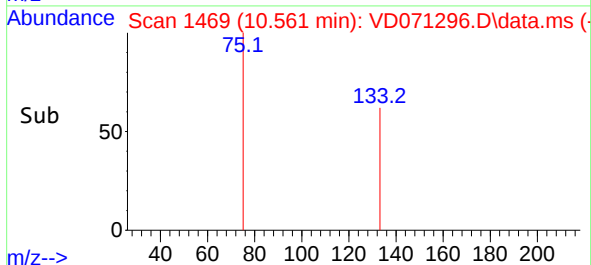
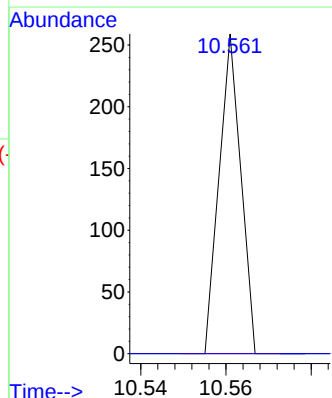
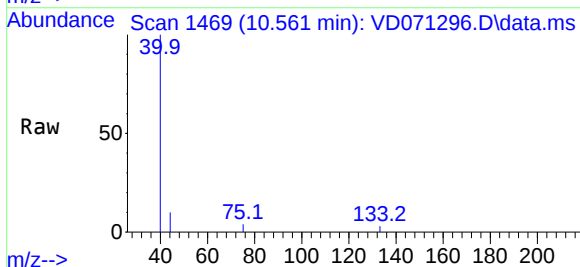
Acq: 13 Dec 2021 15:03

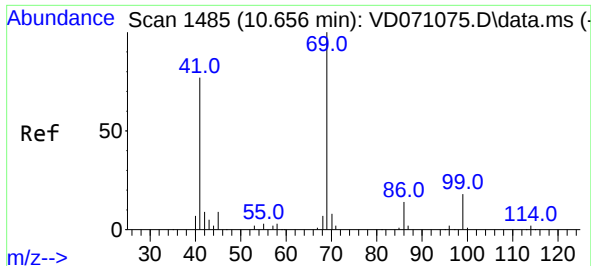
Tgt Ion: 75 Resp: 91

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

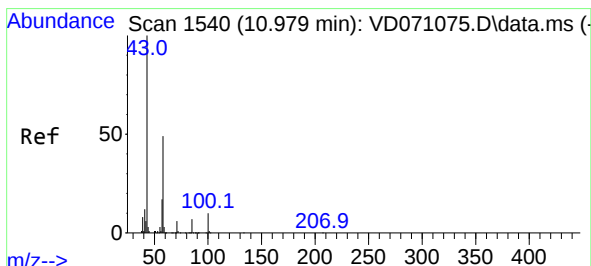
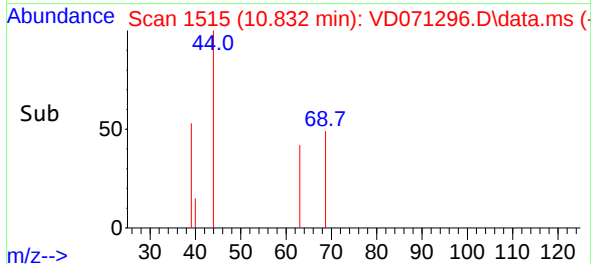
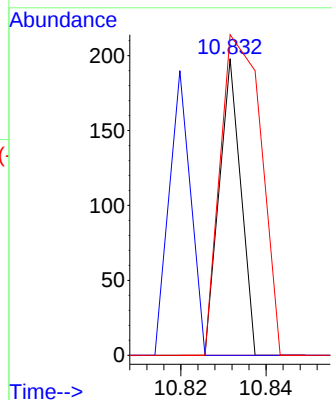
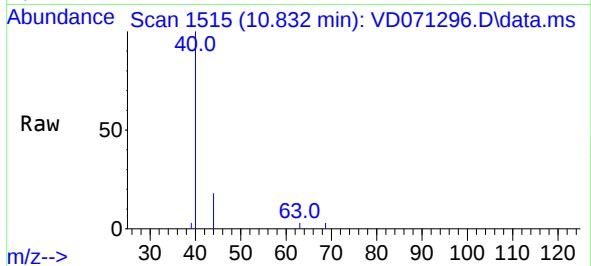




#56
Ethyl methacrylate
Concen: 8.176 ug/l
RT: 10.832 min Scan# 11
Delta R.T. 0.176 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

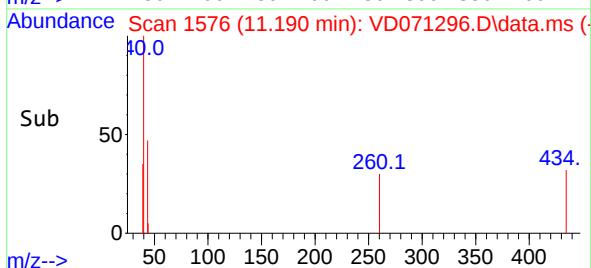
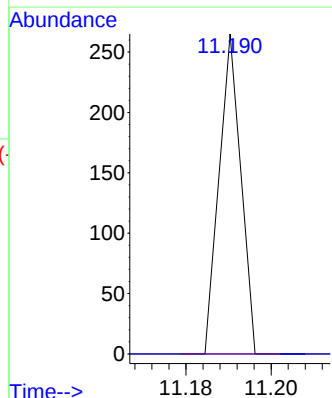
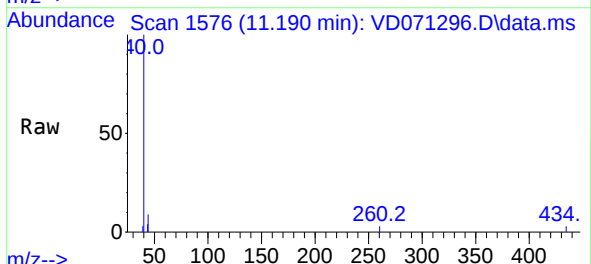
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

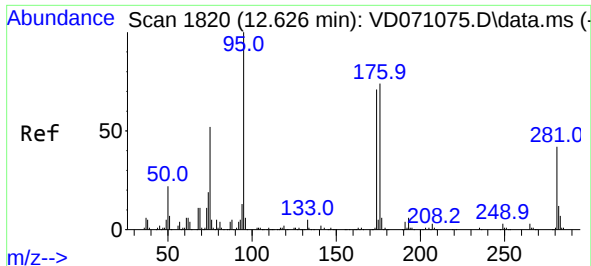
Tgt Ion: 69 Resp: 70
Ion Ratio Lower Upper
69 100
41 95.7 50.2 75.2#
39 204.3 19.8 29.8#



#59
2-Hexanone
Concen: 40.101 ug/l
RT: 11.190 min Scan# 1576
Delta R.T. 0.211 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 43 Resp: 94
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

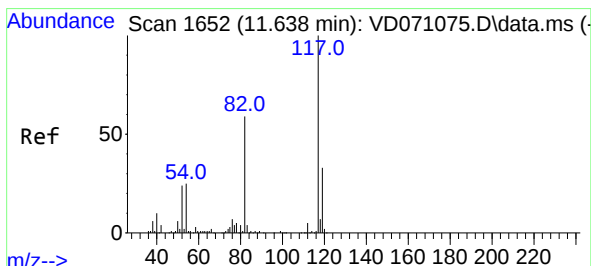
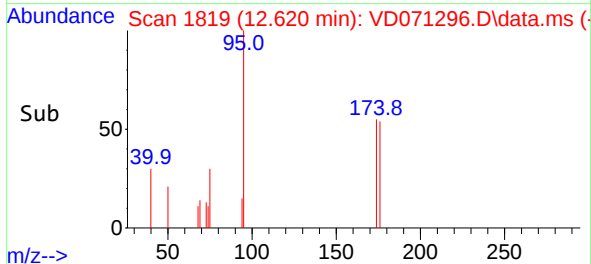
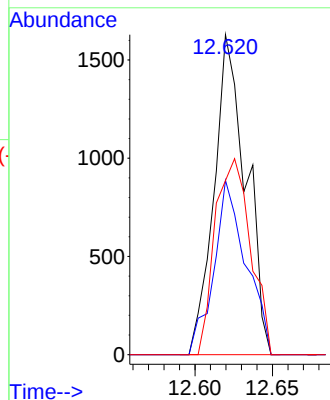
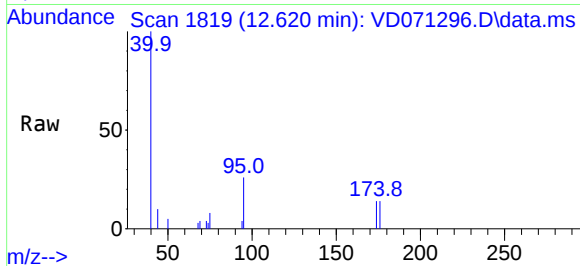




#62
4-Bromofluorobenzene
Concen: 65.124 ug/l
RT: 12.620 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

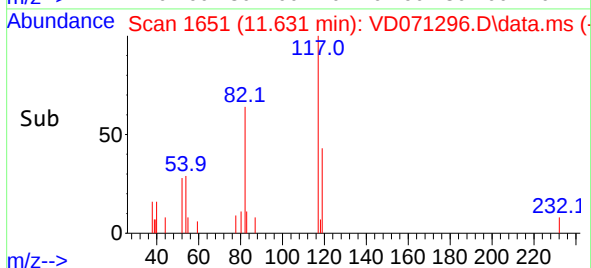
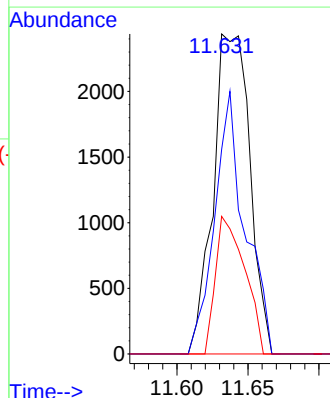
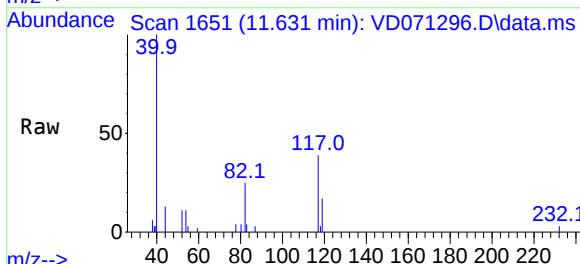
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

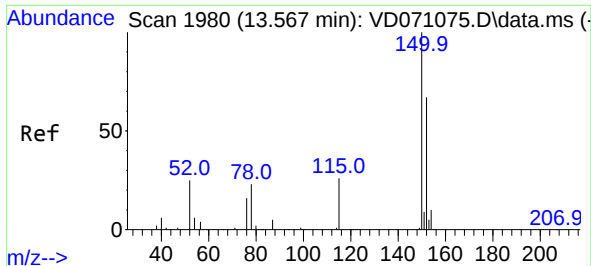
Tgt Ion: 95 Resp: 2337
Ion Ratio Lower Upper
95 100
174 54.7 0.0 159.4
176 68.0 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.631 min Scan# 1651
Delta R.T. -0.007 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 117 Resp: 4393
Ion Ratio Lower Upper
117 100
82 63.9 44.7 67.1
119 43.0 26.2 39.4#

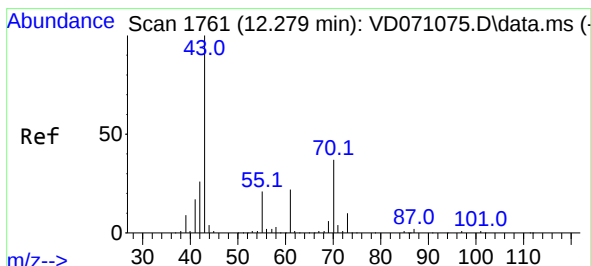
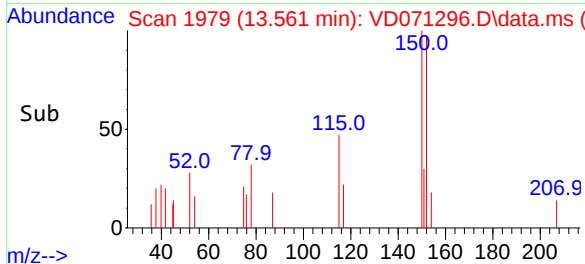
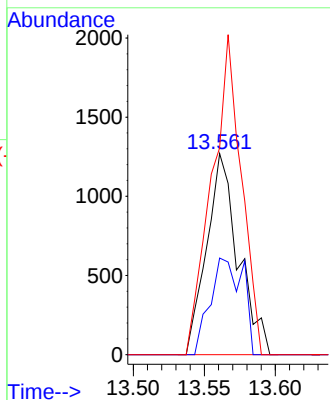
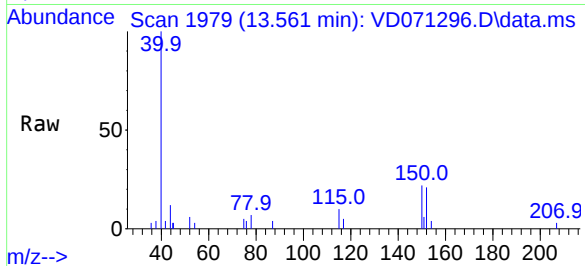




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

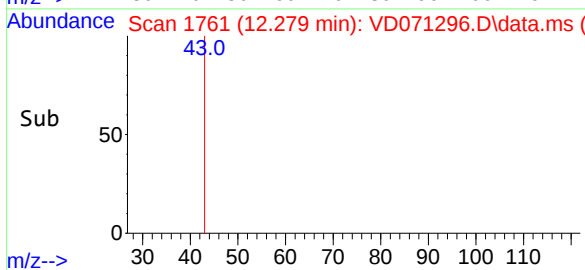
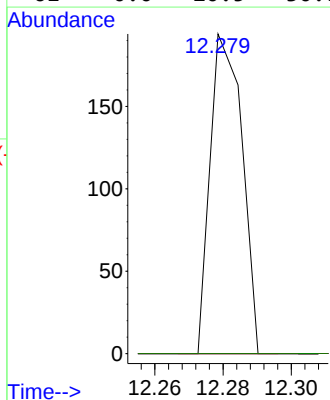
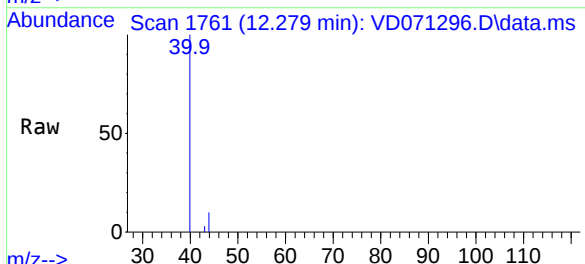
Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

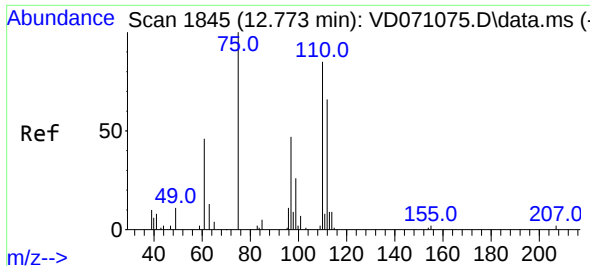
Tgt Ion:	152	Resp:	1975
Ion	Ratio	Lower	Upper
152	100		
115	49.3	29.8	89.3
150	148.8	0.0	349.2



#74
N-ethyl acetate
Concen: 8.552 ug/l
RT: 12.279 min Scan# 1761
Delta R.T. -0.000 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion:	43	Resp:	126
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#

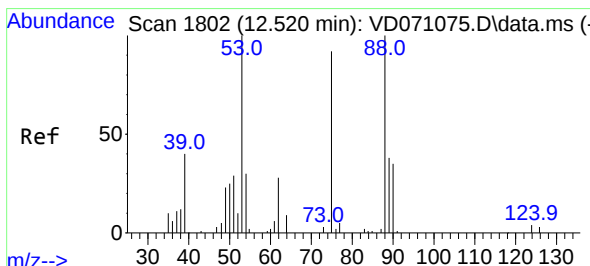
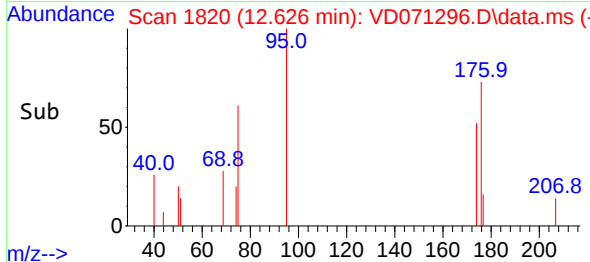
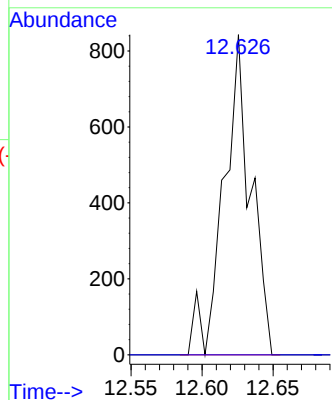
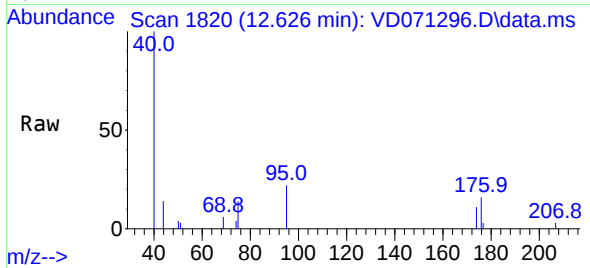




#76
1,2,3-Trichloropropane
Concen: 59.468 ug/l
RT: 12.626 min Scan# 1119
Delta R.T. -0.147 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Instrument :
MSVOA_D
ClientSampleId :
SP1-BRE

Tgt Ion: 75 Resp: 1119
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 11.820 ug/l
RT: 12.514 min Scan# 1801
Delta R.T. -0.006 min
Lab File: VD071296.D
Acq: 13 Dec 2021 15:03

Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

