

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120721\
 Data File : VD071183.D
 Acq On : 07 Dec 2021 15:08
 Operator : VA/SY
 Sample : M4959-07
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2

Quant Time: Dec 08 02:50:02 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)

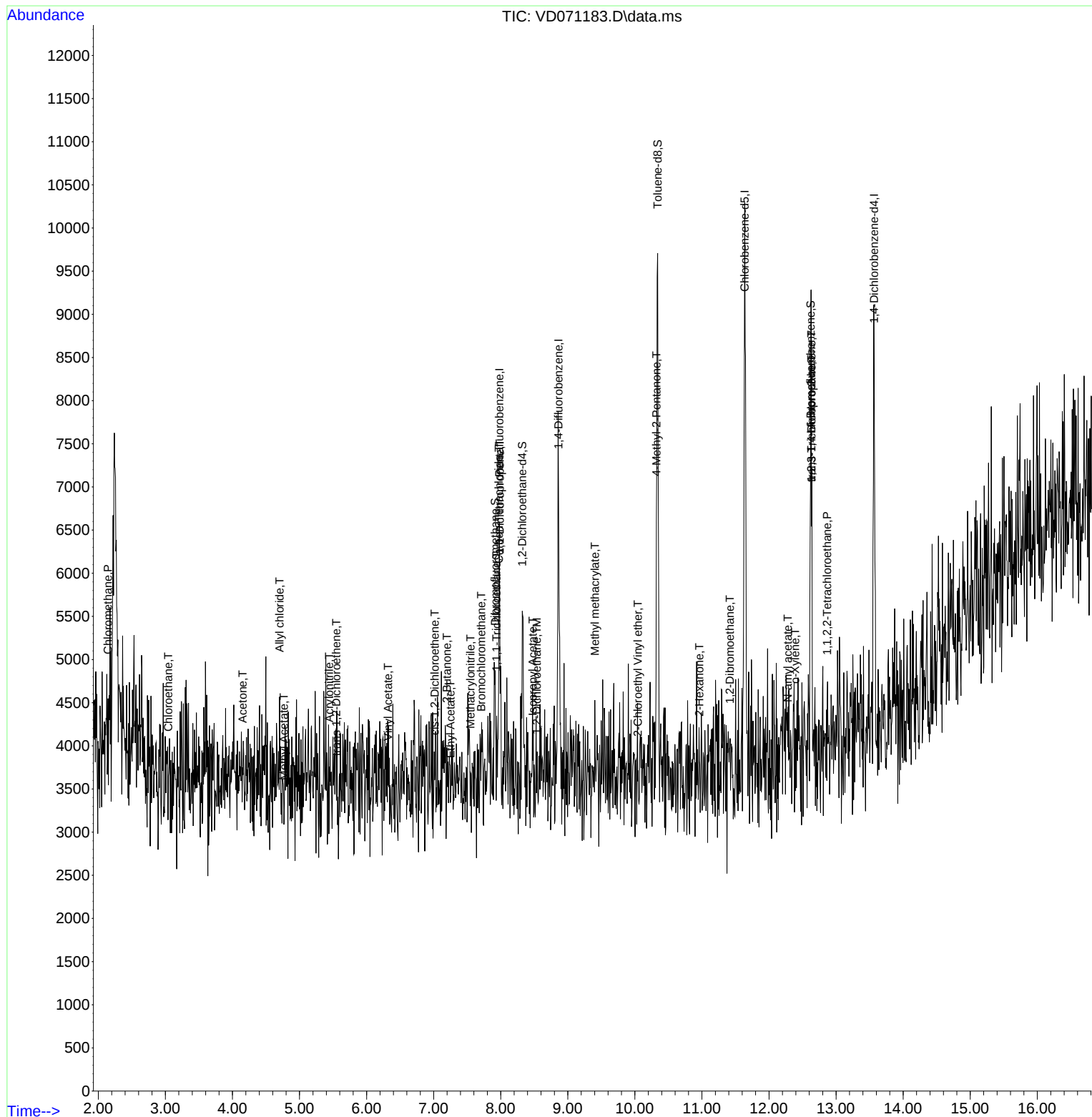
Internal Standards						
1) Pentafluorobenzene	7.979	168	2006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	3445	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	3334	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	1149	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	1548	65.766	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery	= 131.540%		
35) Dibromofluoromethane	7.914	113	1119	51.009	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery	= 102.020%		
50) Toluene-d8	10.338	98	4211	50.441	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery	= 100.880%		
62) 4-Bromofluorobenzene	12.620	95	1760	60.819	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery	= 121.640%		
Target Compounds						
						Qvalue
3) Chloromethane	2.144	50	66	2.916	ug/l #	42
6) Chloroethane	3.044	64	55	3.167	ug/l #	39
14) Allyl chloride	4.703	41	224	6.333	ug/l #	28
15) Acrylonitrile	5.444	53	78	17.297	ug/l #	19
16) Acetone	4.150	43	68	40.336	ug/l #	40
18) Methyl Acetate	4.767	43	81	4.664	ug/l #	51
20) Methylene Chloride	4.956	84	99	Below Cal	#	7
21) trans-1,2-Dichloroethene	5.550	96	82	3.912	ug/l #	1
23) Vinyl Acetate	6.320	43	56	28.520	ug/l #	72
25) 2-Butanone	7.197	43	55	35.114	ug/l #	45
27) cis-1,2-Dichloroethene	7.014	96	59	2.488	ug/l #	1
28) Bromochloromethane	7.708	49	54	3.050	ug/l #	14
32) 1,1,1-Trichloroethane	7.938	97	61	1.661	ug/l #	25
36) 1,1-Dichloropropene	7.985	75	208	6.460	ug/l #	41
37) Ethyl Acetate	7.250	43	66	4.745	ug/l #	66
38) Carbon Tetrachloride	7.973	117	126	3.970	ug/l #	12
41) Methacrylonitrile	7.550	41	59	4.527	ug/l #	37
42) 1,2-Dichloroethane	8.538	62	60	2.247	ug/l #	71
43) Isopropyl Acetate	8.479	43	60	6.979	ug/l #	47
48) Methyl methacrylate	9.402	41	67	4.921	ug/l #	1
51) 4-Methyl-2-Pentanone	10.320	43	81	35.183	ug/l #	56
58) 2-Chloroethyl Vinyl ether	10.044	63	75	7.041	ug/l #	49
59) 2-Hexanone	10.961	43	55	38.584	ug/l #	22
61) 1,2-Dibromoethane	11.414	107	67	4.456	ug/l #	3
69) o-Xylene	12.391	106	54	1.307	ug/l #	1
74) N-amyl acetate	12.279	43	112	10.057	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.867	83	54	3.941	ug/l #	25
76) 1,2,3-Trichloropropane	12.632	75	925	84.497	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.632	75	925	180.585	ug/l #	18

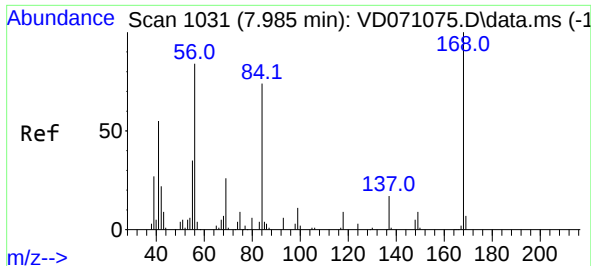
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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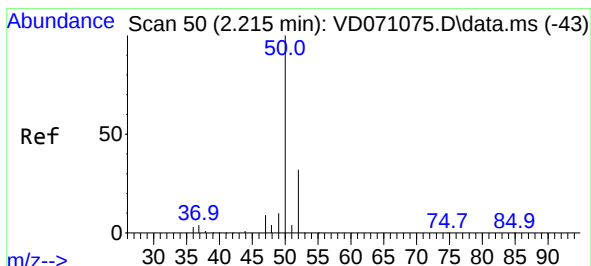
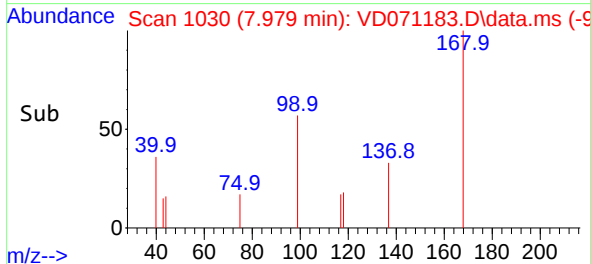
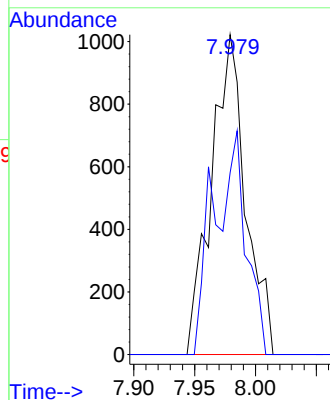
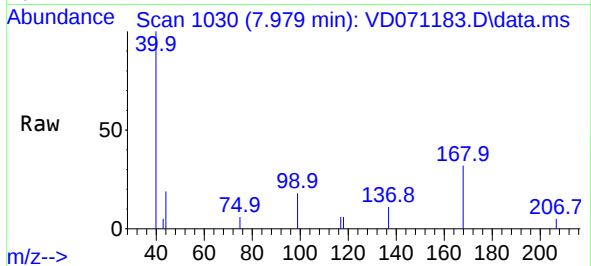




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

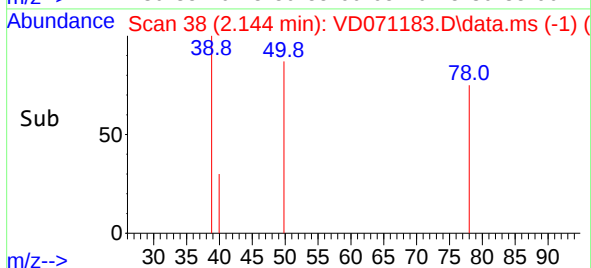
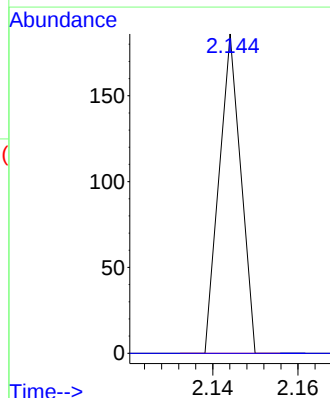
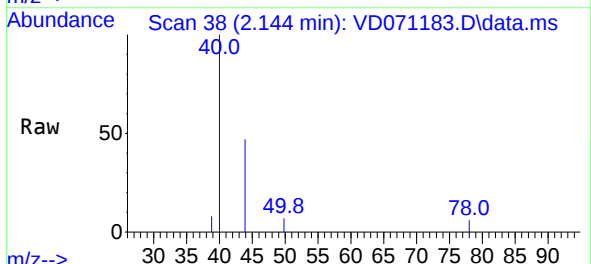
Instrument :
MSVOA_D
ClientSampleId :
TP-2

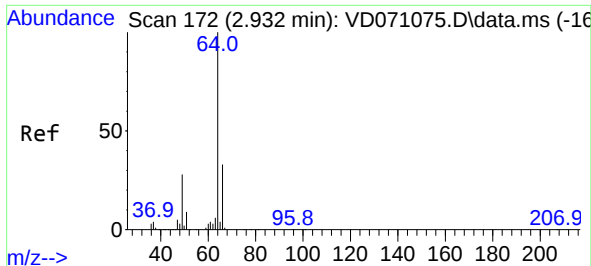
Tgt Ion:168 Resp: 2006
Ion Ratio Lower Upper
168 100
99 56.8 46.6 69.8



#3
Chloromethane
Concen: 2.916 ug/l
RT: 2.144 min Scan# 38
Delta R.T. -0.071 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 50 Resp: 66
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

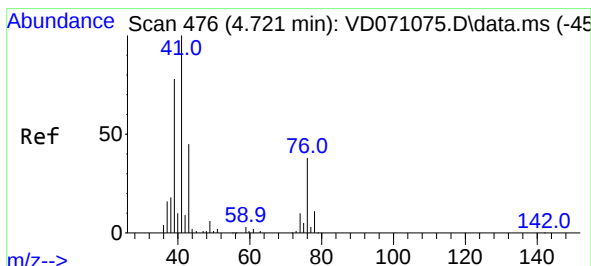
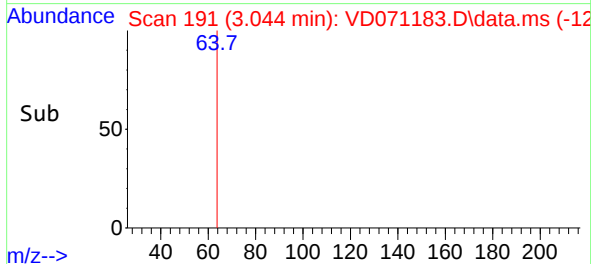
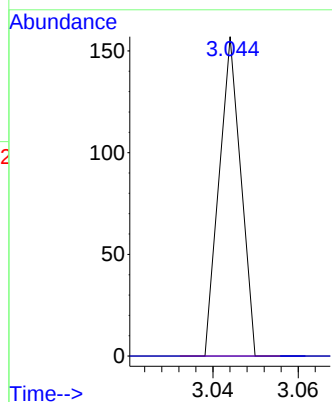
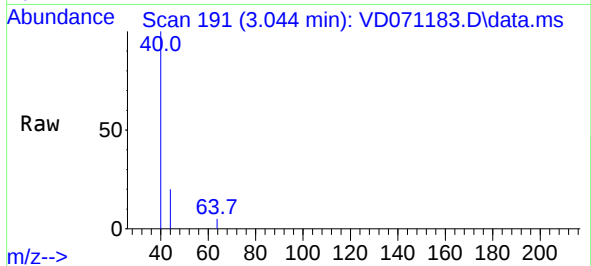




#6
Chloroethane
Concen: 3.167 ug/l
RT: 3.044 min Scan# 11
Delta R.T. 0.112 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

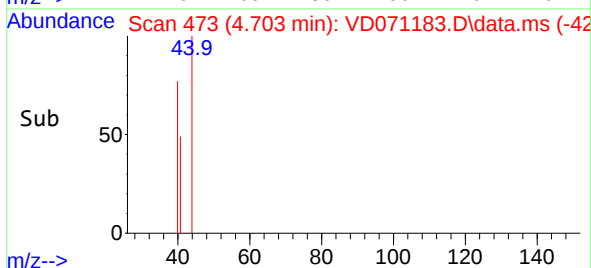
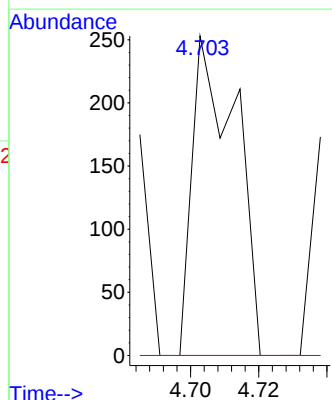
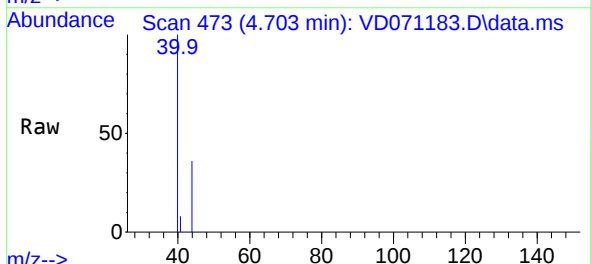
Instrument :
MSVOA_D
ClientSampleId :
TP-2

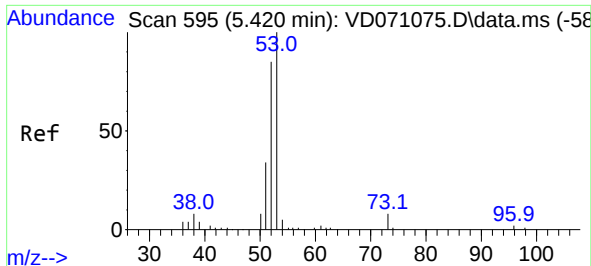
Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



#14
Allyl chloride
Concen: 6.333 ug/l
RT: 4.703 min Scan# 473
Delta R.T. -0.018 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 41 Resp: 224
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
76 0.0 30.2 45.4#

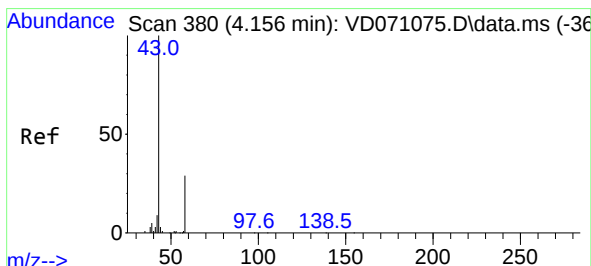
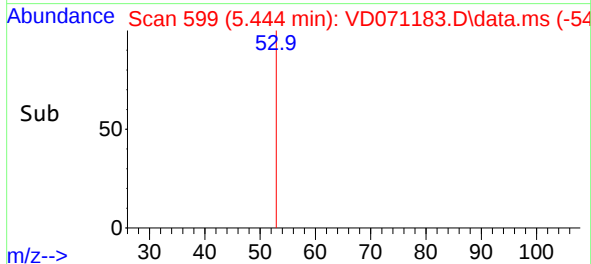
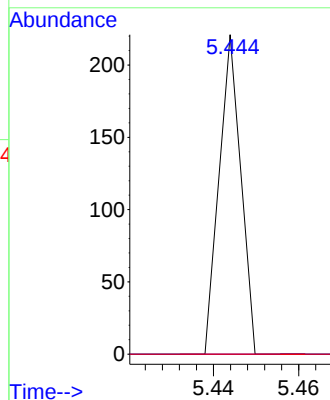
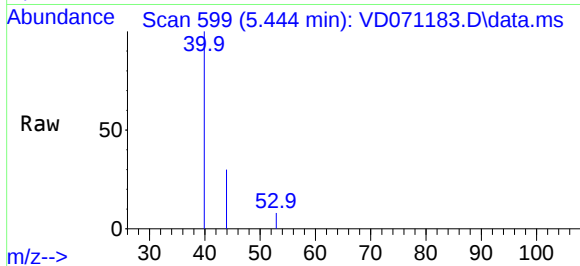




#15
Acrylonitrile
Concen: 17.297 ug/l
RT: 5.444 min Scan# 595
Delta R.T. 0.024 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

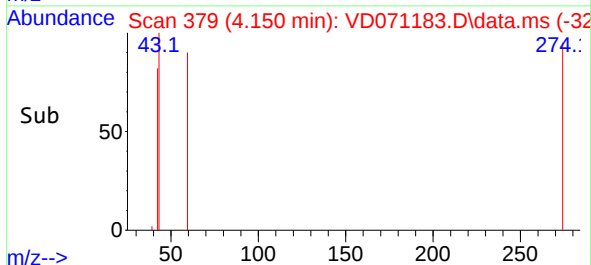
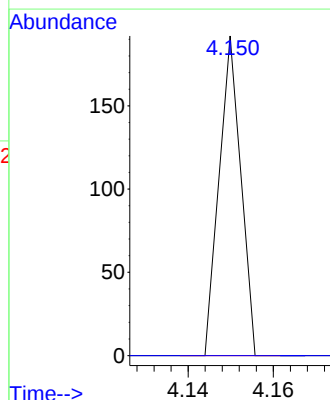
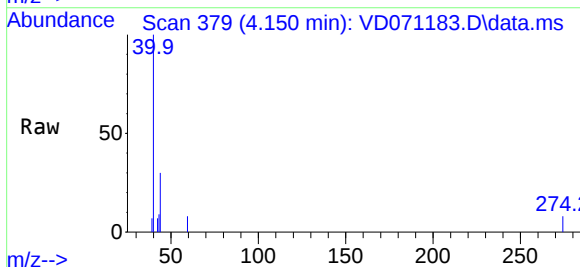
Instrument :
MSVOA_D
ClientSampleId :
TP-2

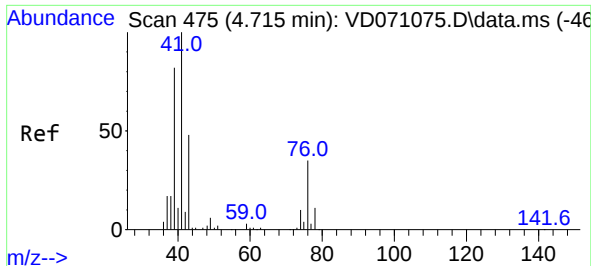
Tgt Ion: 53	Resp:	78
Ion	Ratio	Lower Upper
53	100	
52	0.0	63.8 95.8#
51	0.0	28.5 42.7#



#16
Acetone
Concen: 40.336 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 43	Resp:	68
Ion	Ratio	Lower Upper
43	100	
58	0.0	27.8 41.8#

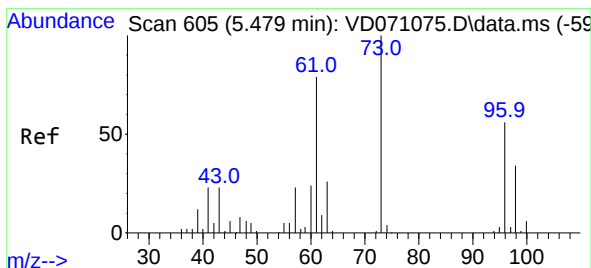
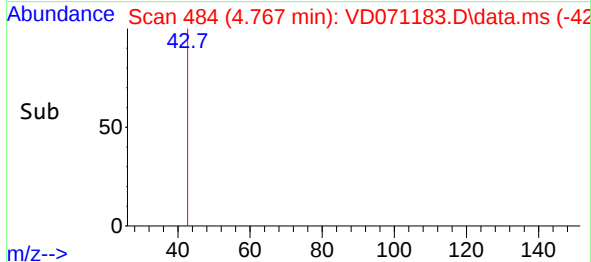
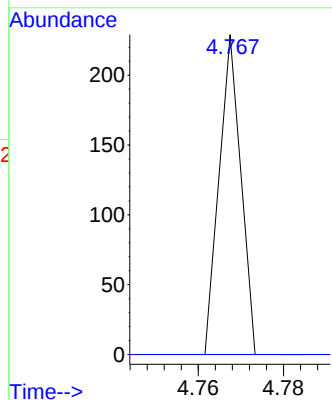
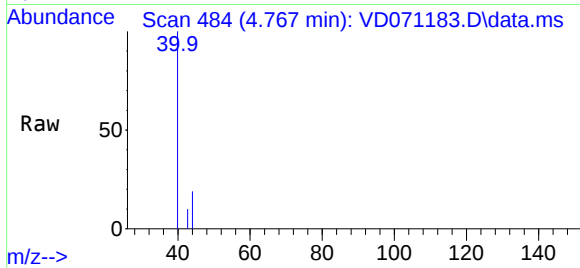




#18
Methyl Acetate
Concen: 4.664 ug/l
RT: 4.767 min Scan# 41
Delta R.T. 0.052 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

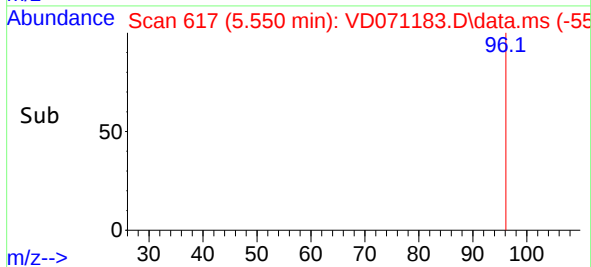
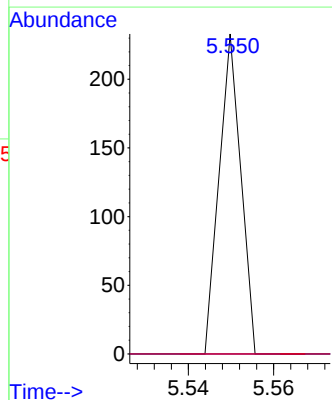
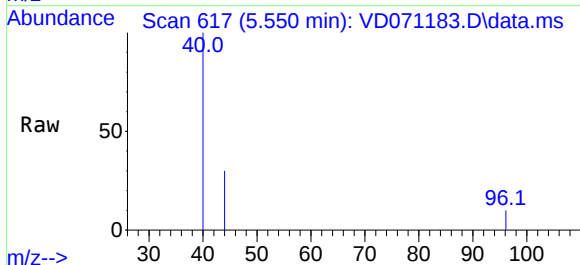
Instrument :
MSVOA_D
ClientSampleId :
TP-2

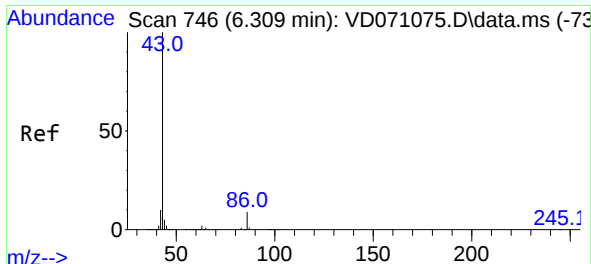
Tgt Ion: 43 Resp: 81
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#21
trans-1,2-Dichloroethene
Concen: 3.912 ug/l
RT: 5.550 min Scan# 617
Delta R.T. 0.071 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 96 Resp: 82
Ion Ratio Lower Upper
96 100
61 0.0 102.1 153.1#
98 0.0 50.1 75.1#





#23

Vinyl Acetate

Concen: 28.520 ug/l

RT: 6.320 min Scan# 74

Delta R.T. 0.011 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :

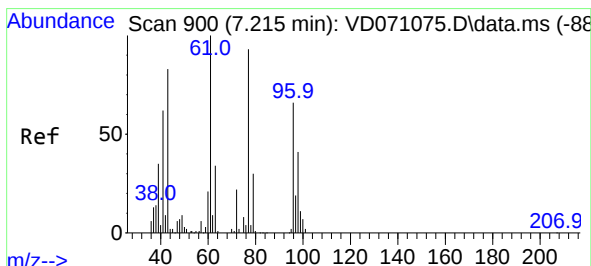
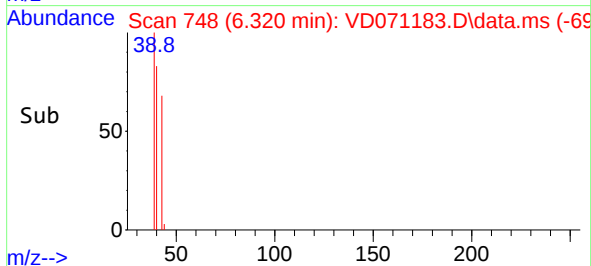
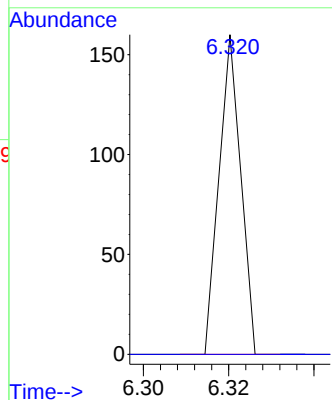
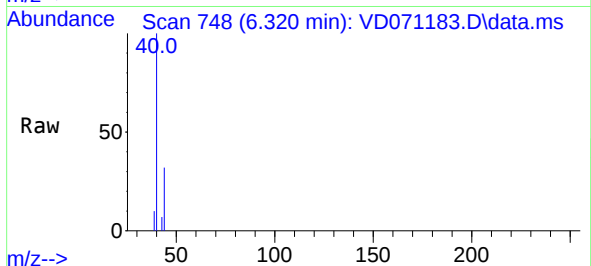
TP-2

Tgt Ion: 43 Resp: 56

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#



#25

2-Butanone

Concen: 35.114 ug/l

RT: 7.197 min Scan# 897

Delta R.T. -0.018 min

Lab File: VD071183.D

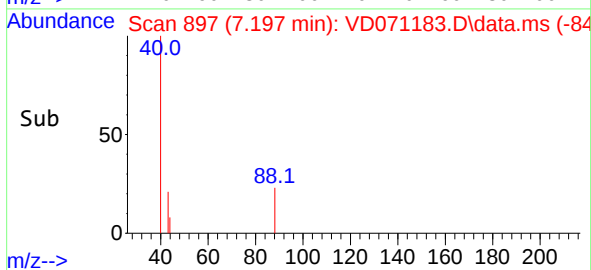
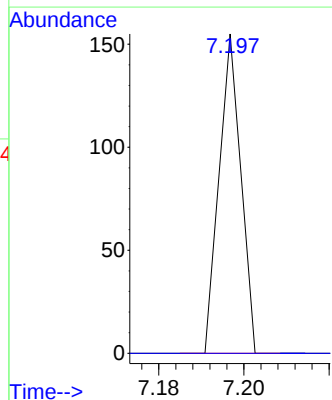
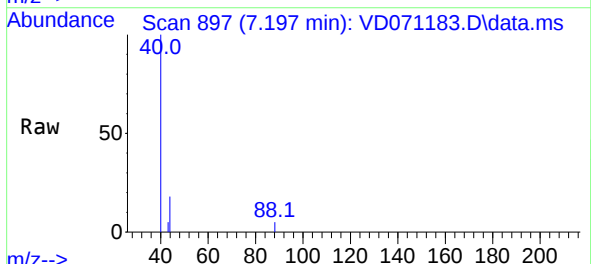
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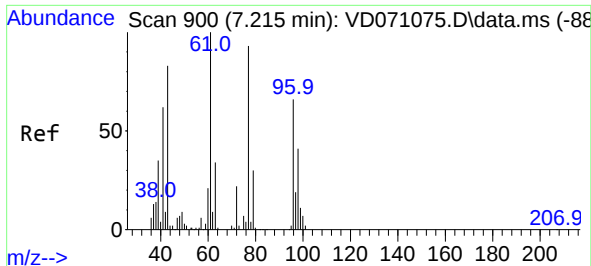
Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#





#27

cis-1,2-Dichloroethene

Concen: 2.488 ug/l

RT: 7.014 min Scan# 80

Delta R.T. -0.201 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :

TP-2

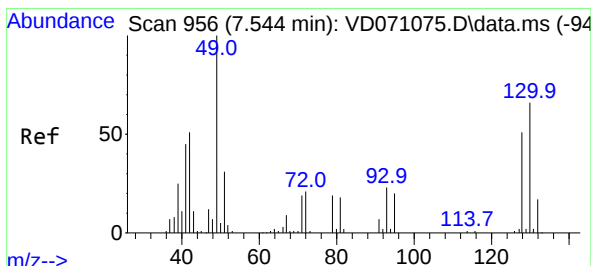
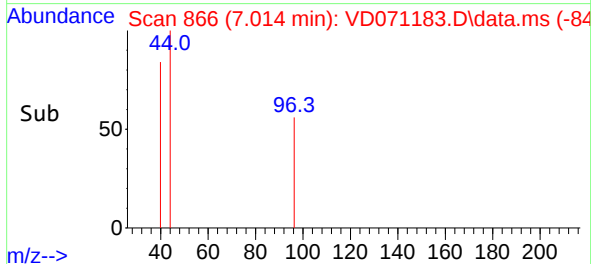
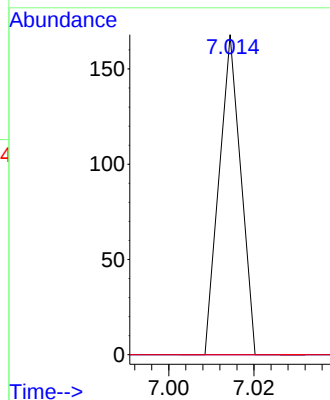
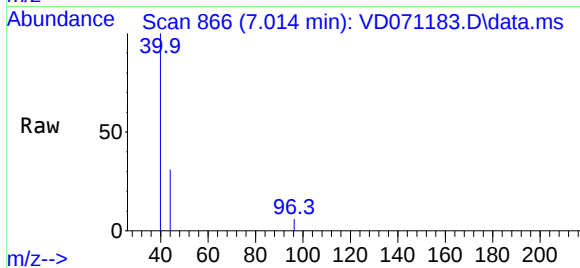
Tgt Ion: 96 Resp: 59

Ion Ratio Lower Upper

96 100

61 0.0 0.0 288.6

98 0.0 0.0 129.2



#28

Bromochloromethane

Concen: 3.050 ug/l

RT: 7.708 min Scan# 984

Delta R.T. 0.164 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

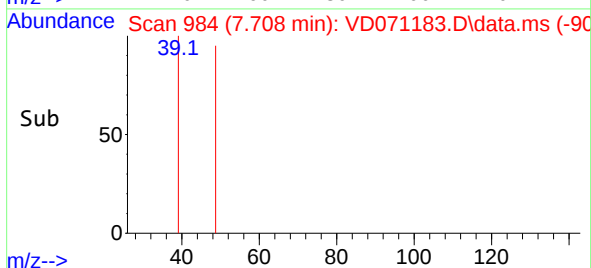
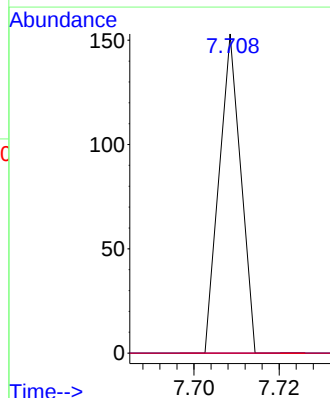
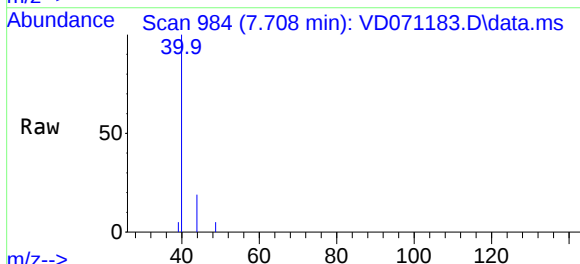
Tgt Ion: 49 Resp: 54

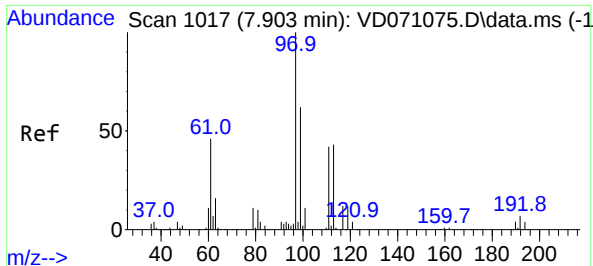
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 60.2 90.2#

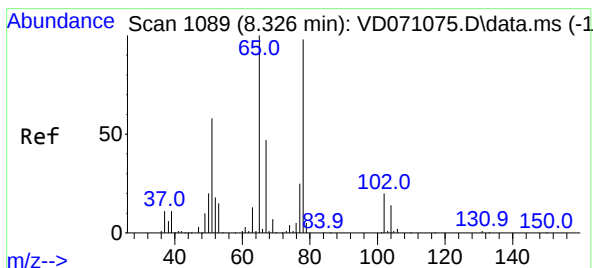
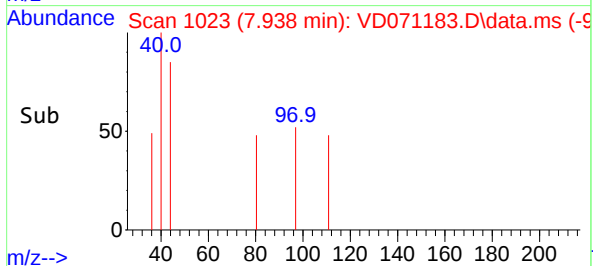
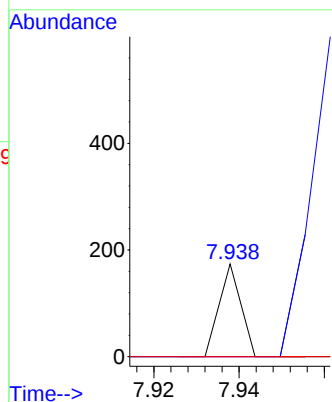
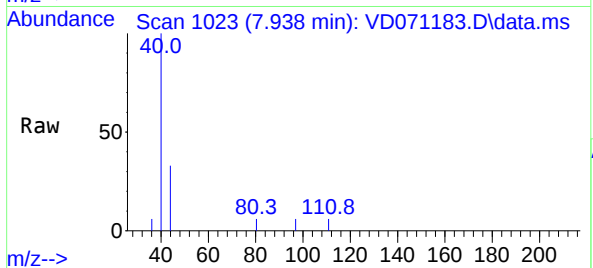




#32
1,1,1-Trichloroethane
Concen: 1.661 ug/l
RT: 7.938 min Scan# 1017
Delta R.T. 0.035 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

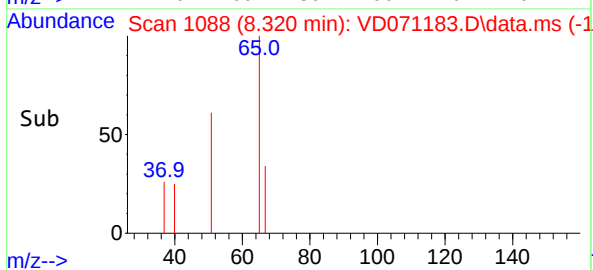
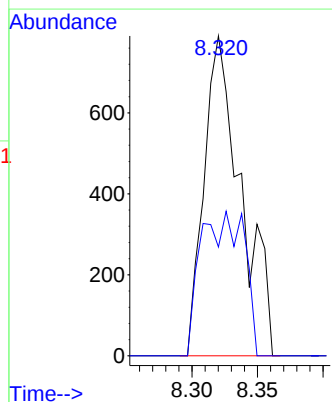
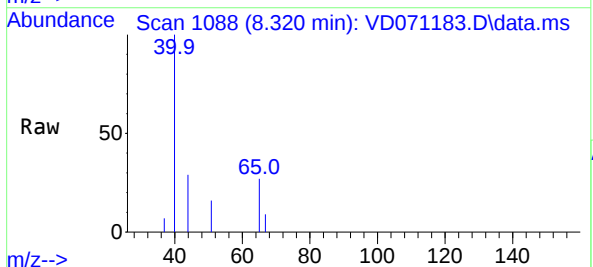
Instrument :
MSVOA_D
ClientSampleId :
TP-2

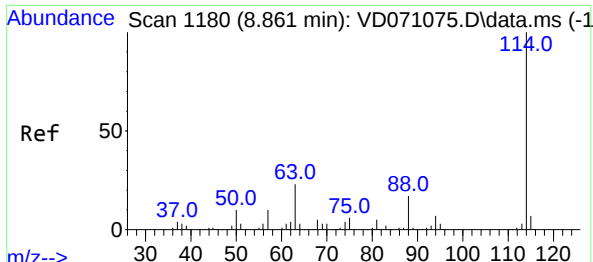
Tgt Ion:	97	Resp:	61
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5#
61	0.0	33.0	49.4#



#33
1,2-Dichloroethane-d4
Concen: 65.766 ug/l
RT: 8.320 min Scan# 1088
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion:	65	Resp:	1548
Ion	Ratio	Lower	Upper
65	100		
67	25.8	0.0	112.2



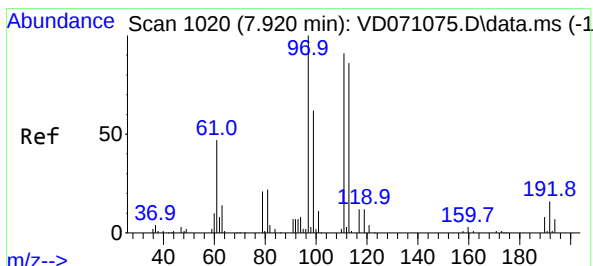
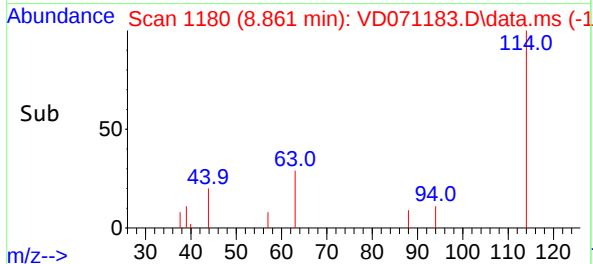
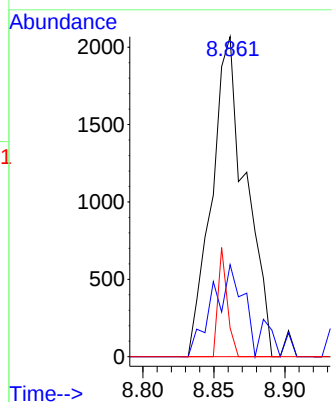
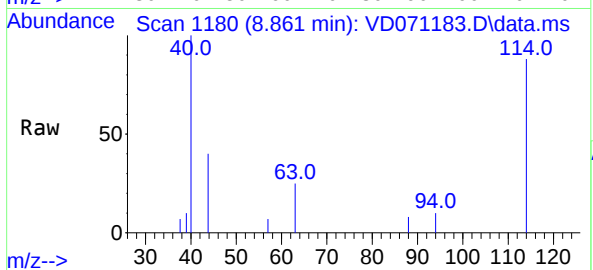


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :
TP-2

Tgt Ion:114 Resp: 3445

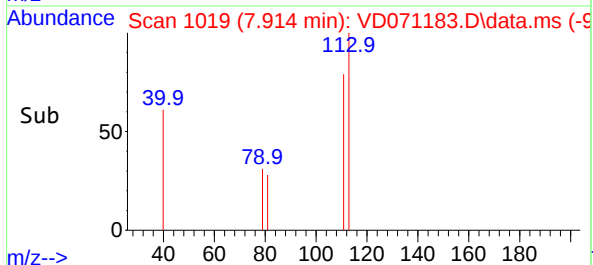
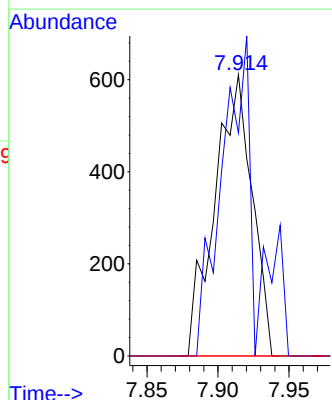
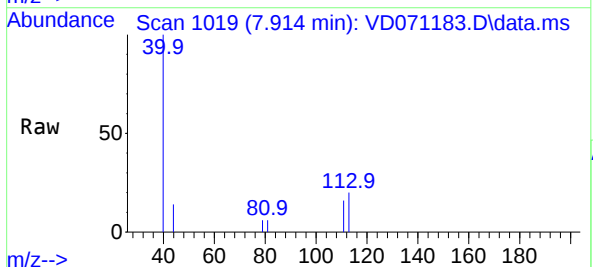
Ion	Ratio	Lower	Upper
114	100		
63	28.8	0.0	41.8
88	8.9	0.0	32.8

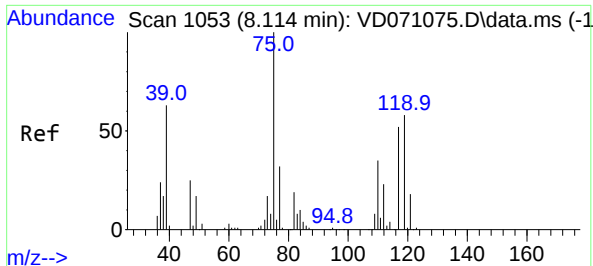


#35
Dibromofluoromethane
Concen: 51.009 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion:113 Resp: 1119

Ion	Ratio	Lower	Upper
113	100		
111	94.5	82.0	123.0
192	0.0	15.2	22.8





#36

1,1-Dichloropropene

Concen: 6.460 ug/l

RT: 7.985 min Scan# 1053

Delta R.T. -0.129 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :

TP-2

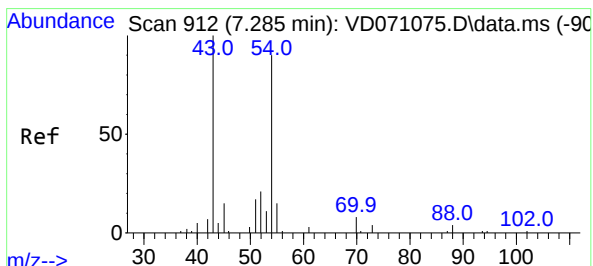
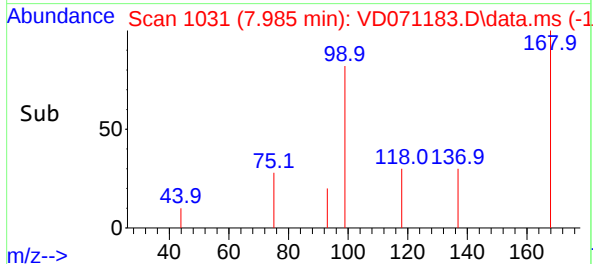
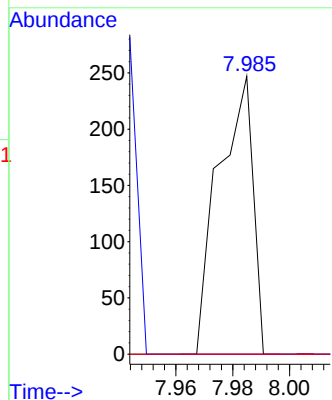
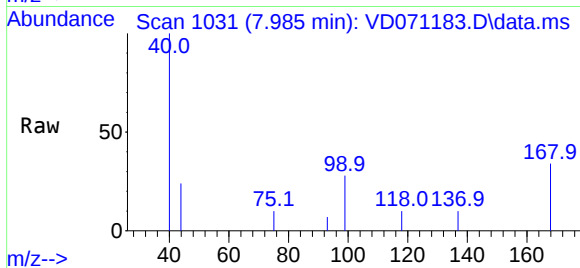
Tgt Ion: 75 Resp: 208

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.4#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 4.745 ug/l

RT: 7.250 min Scan# 906

Delta R.T. -0.035 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

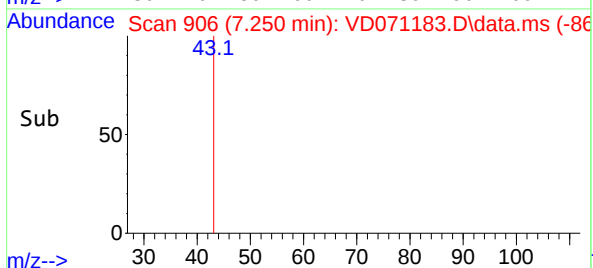
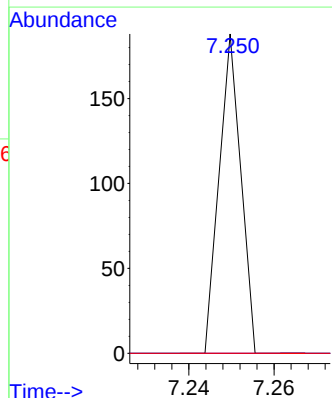
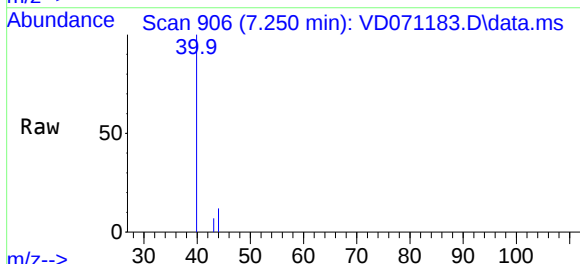
Tgt Ion: 43 Resp: 66

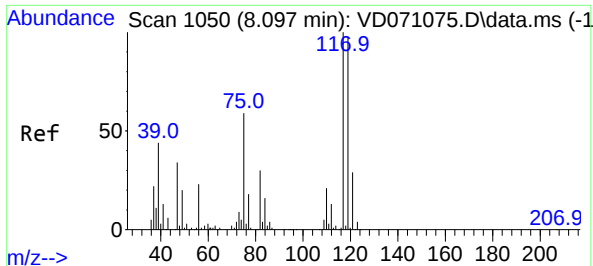
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

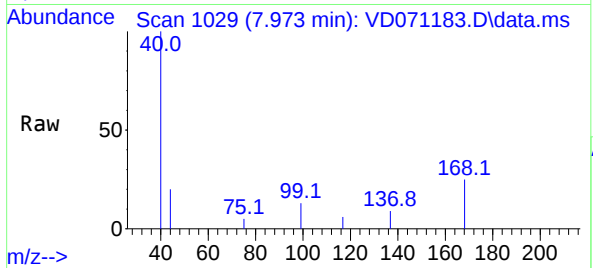
70 0.0 8.7 13.1#



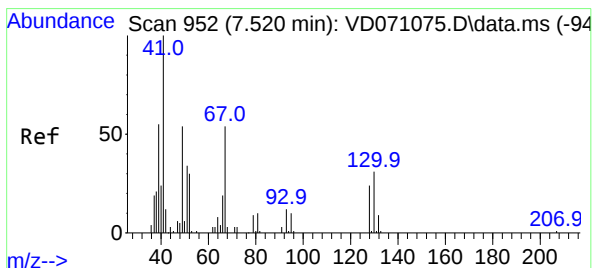
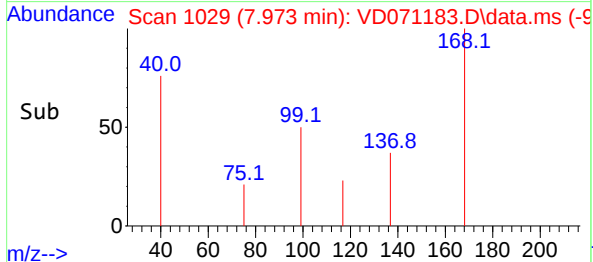
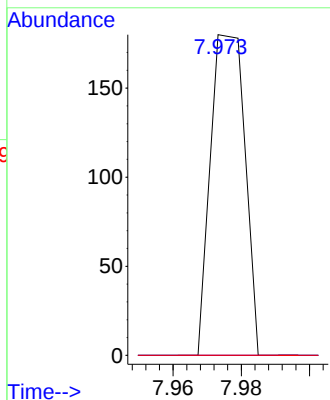


#38
Carbon Tetrachloride
Concen: 3.970 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :
TP-2

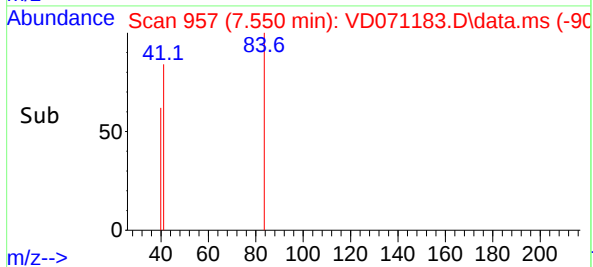
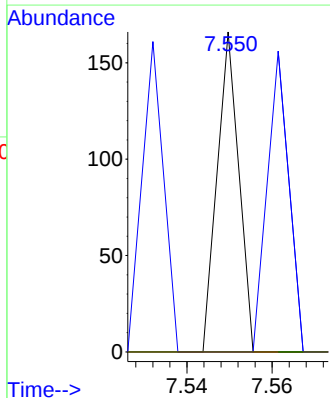
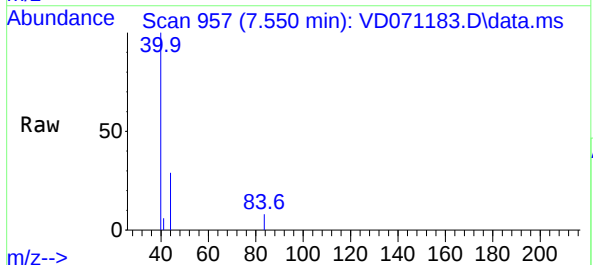


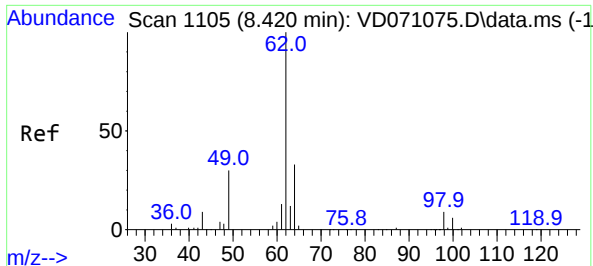
Tgt Ion:117 Resp: 126
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 4.527 ug/l
RT: 7.550 min Scan# 957
Delta R.T. 0.030 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 41 Resp: 59
Ion Ratio Lower Upper
41 100
39 93.2 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#

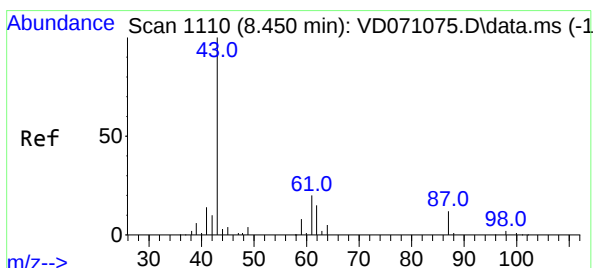
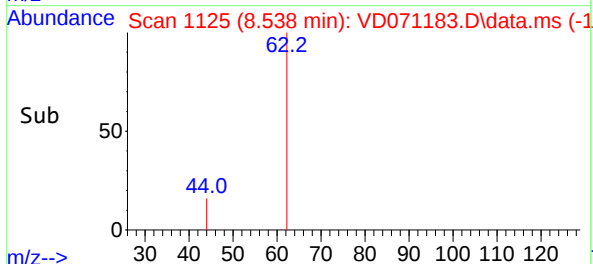
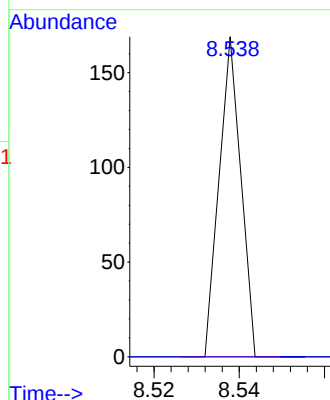
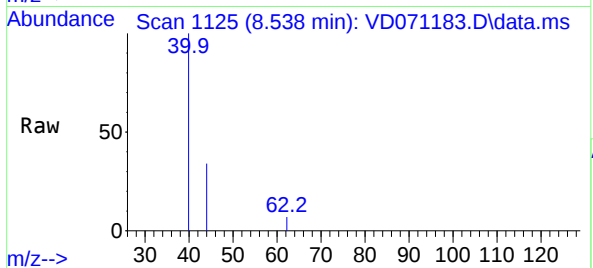




#42
1,2-Dichloroethane
Concen: 2.247 ug/l
RT: 8.538 min Scan# 1115
Delta R.T. 0.118 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

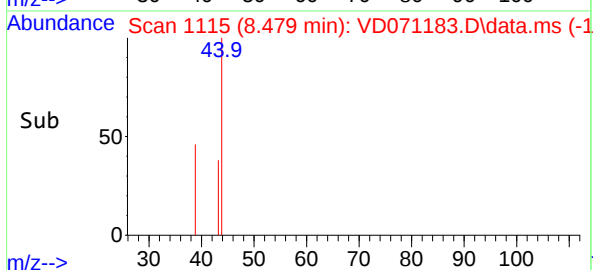
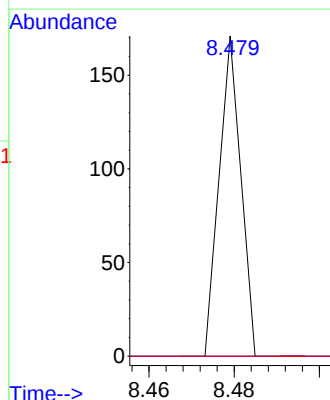
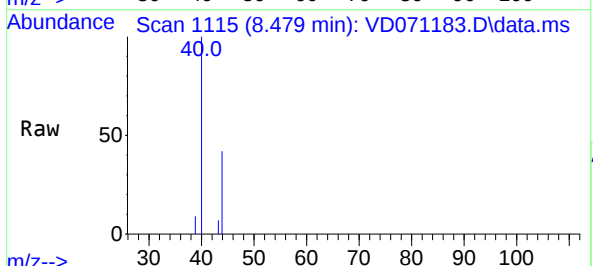
Instrument :
MSVOA_D
ClientSampleId :
TP-2

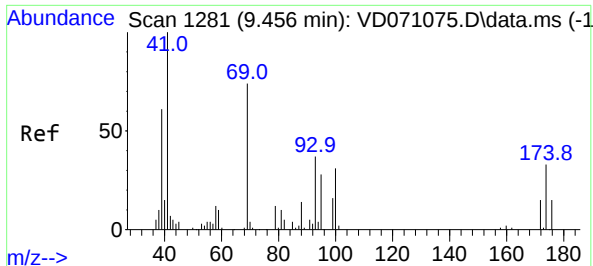
Tgt Ion: 62 Resp: 60
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.8



#43
Isopropyl Acetate
Concen: 6.979 ug/l
RT: 8.479 min Scan# 1115
Delta R.T. 0.029 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#





#48

Methyl methacrylate

Concen: 4.921 ug/l

RT: 9.402 min Scan# 11

Delta R.T. -0.053 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :

TP-2

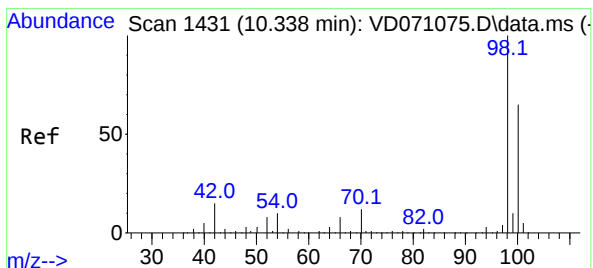
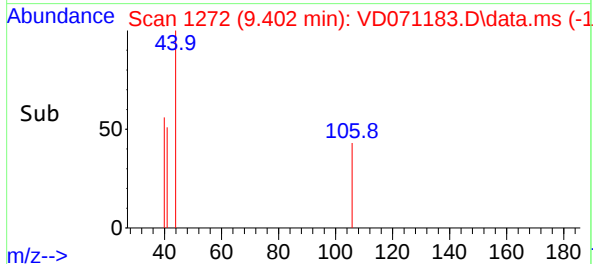
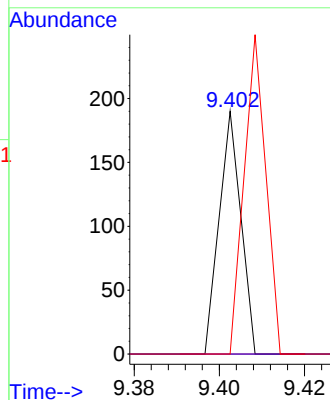
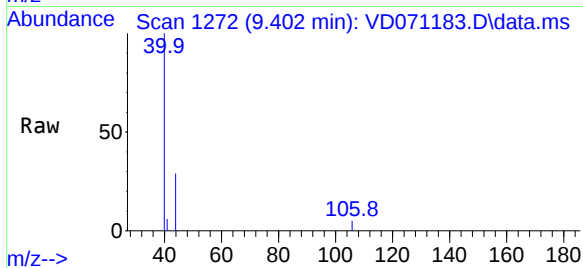
Tgt Ion: 41 Resp: 67

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 131.3 35.6 53.4#



#50

Toluene-d8

Concen: 50.441 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VD071183.D

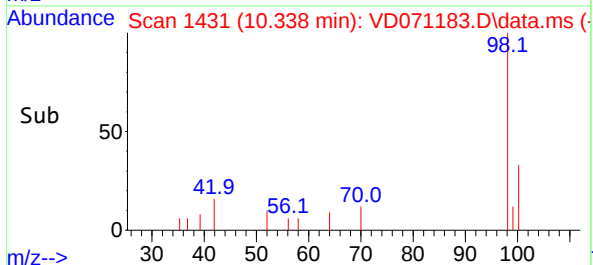
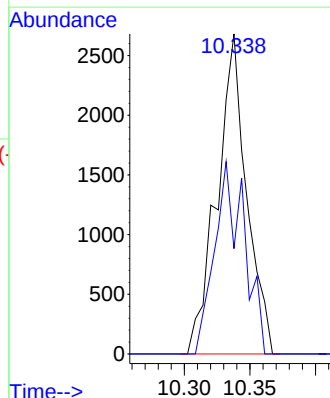
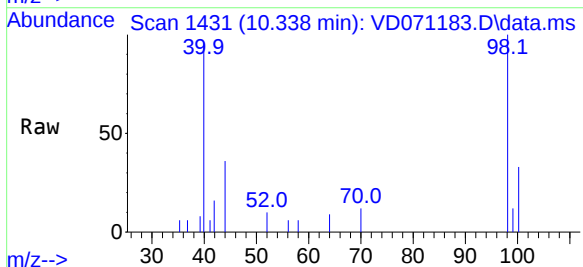
Acq: 07 Dec 2021 15:08

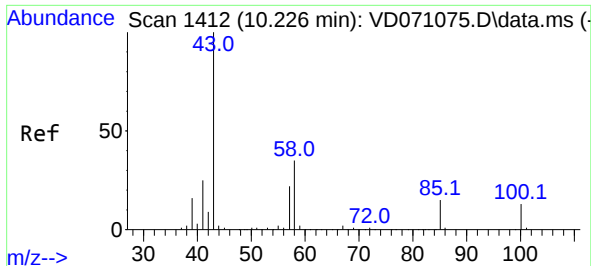
Tgt Ion: 98 Resp: 4211

Ion Ratio Lower Upper

98 100

100 60.0 51.8 77.6





#51

4-Methyl-2-Pentanone

Concen: 35.183 ug/l

RT: 10.320 min Scan# 1412

Delta R.T. 0.094 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :

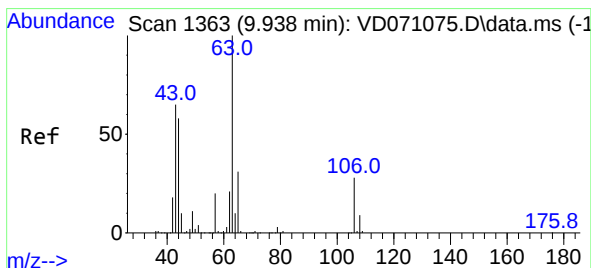
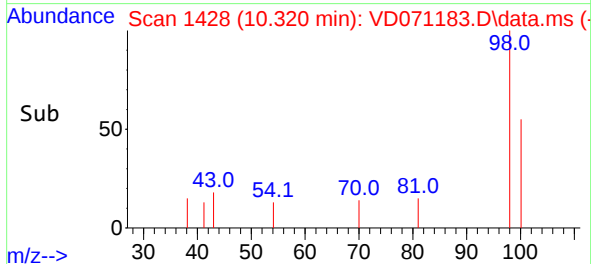
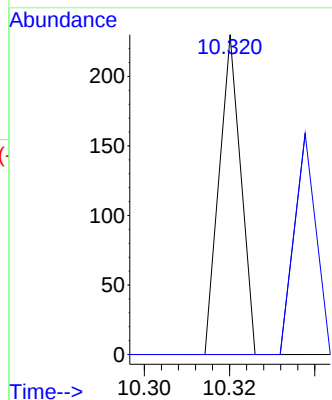
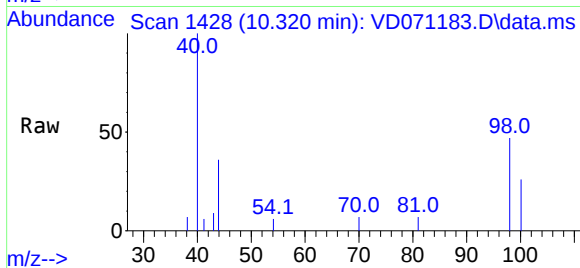
TP-2

Tgt Ion: 43 Resp: 81

Ion Ratio Lower Upper

43 100

58 69.1 33.1 49.7#



#58

2-Chloroethyl Vinyl ether

Concen: 7.041 ug/l

RT: 10.044 min Scan# 1381

Delta R.T. 0.106 min

Lab File: VD071183.D

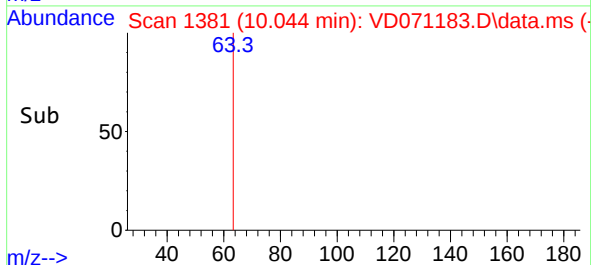
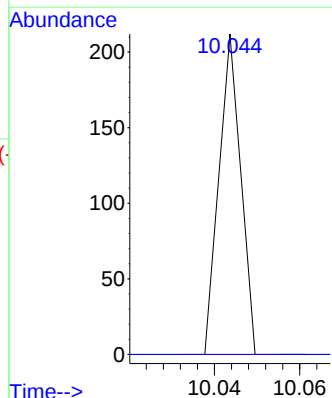
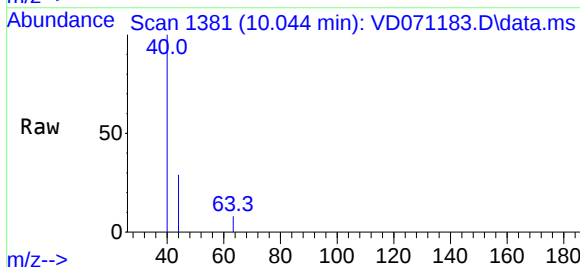
Acq: 07 Dec 2021 15:08

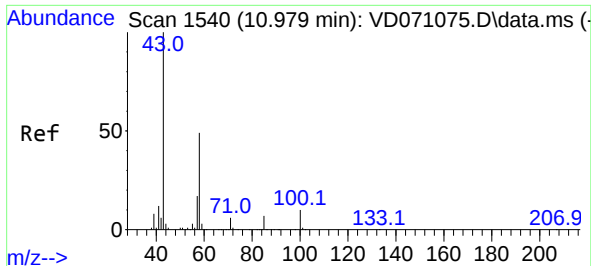
Tgt Ion: 63 Resp: 75

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.4#

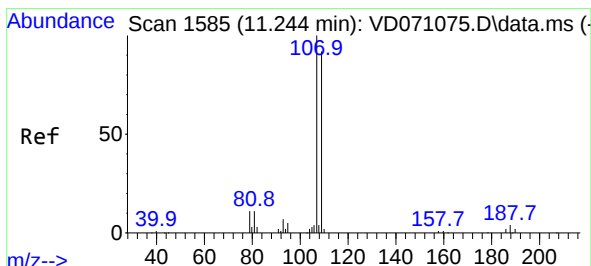
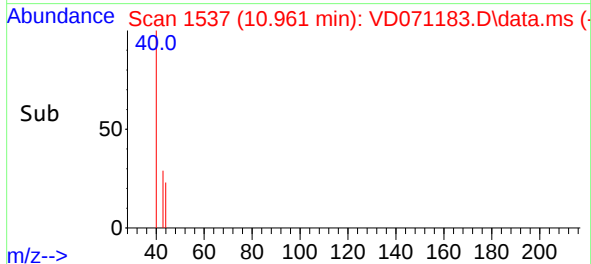
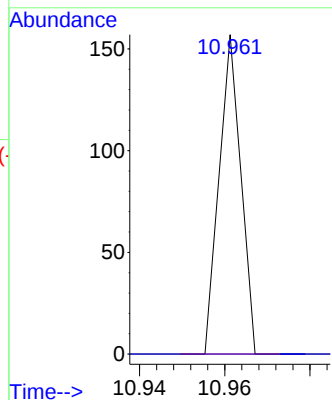
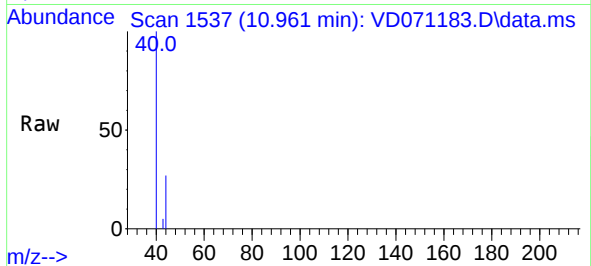




#59
2-Hexanone
Concen: 38.584 ug/l
RT: 10.961 min Scan# 11
Delta R.T. -0.018 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

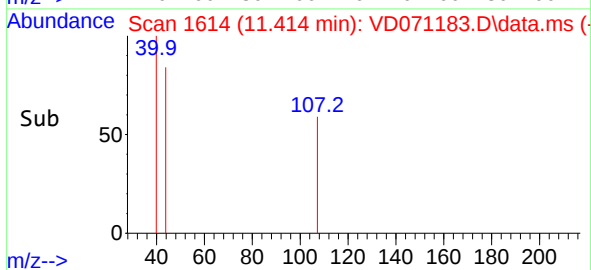
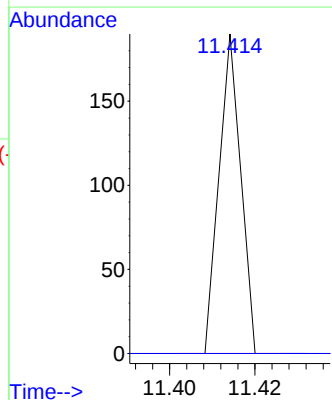
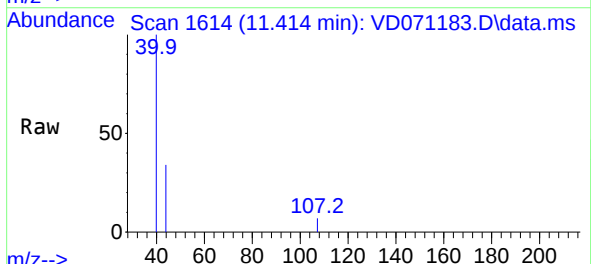
Instrument :
MSVOA_D
ClientSampleId :
TP-2

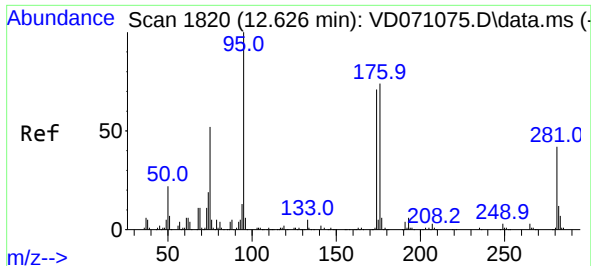
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#61
1,2-Dibromoethane
Concen: 4.456 ug/l
RT: 11.414 min Scan# 1614
Delta R.T. 0.170 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 107 Resp: 67
Ion Ratio Lower Upper
107 100
109 0.0 74.6 112.0#

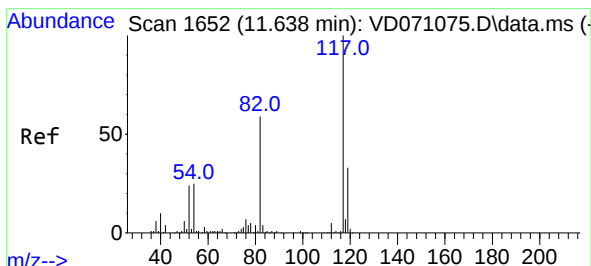
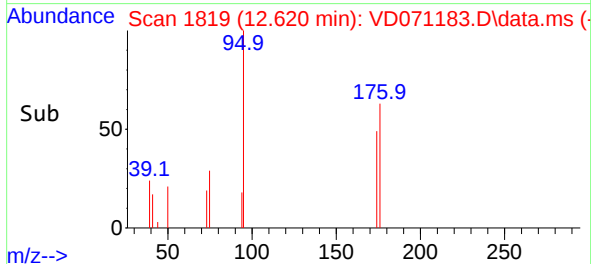
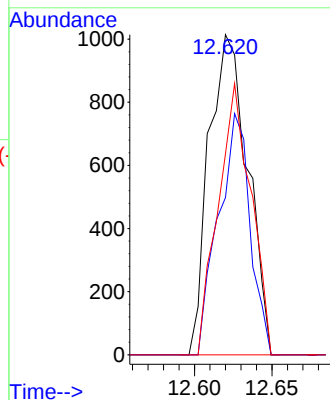
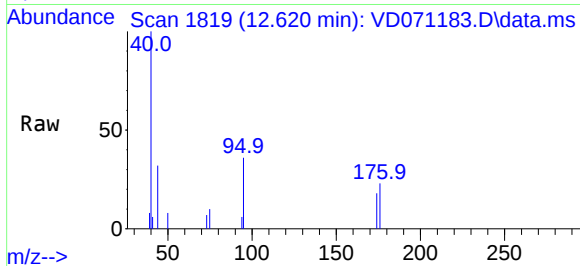




#62
4-Bromofluorobenzene
Concen: 60.819 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

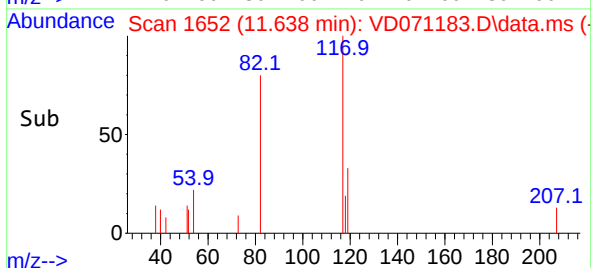
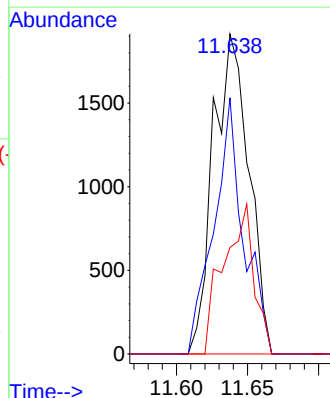
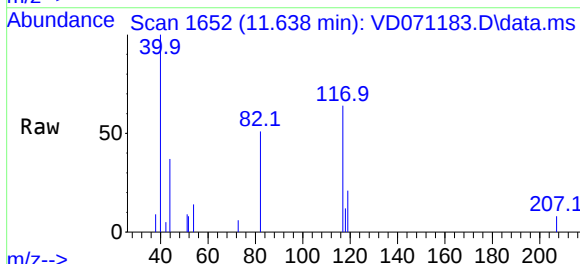
Instrument :
MSVOA_D
ClientSampleId :
TP-2

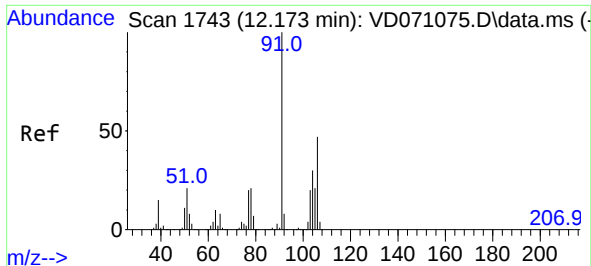
Tgt Ion:	95	Resp:	1760
Ion	Ratio	Lower	Upper
95	100		
174	61.5	0.0	159.4
176	71.8	0.0	154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion:	117	Resp:	3334
Ion	Ratio	Lower	Upper
117	100		
82	80.0	44.7	67.1
119	33.3	26.2	39.4

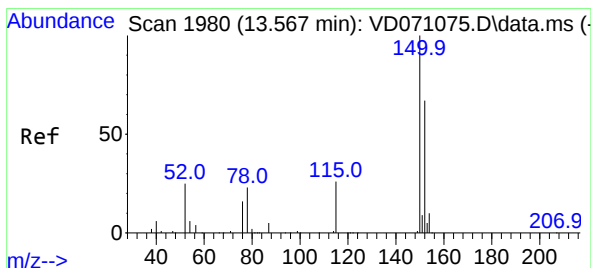
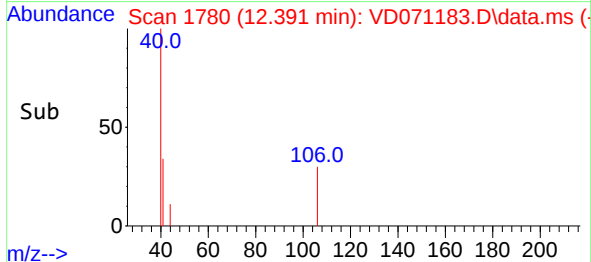
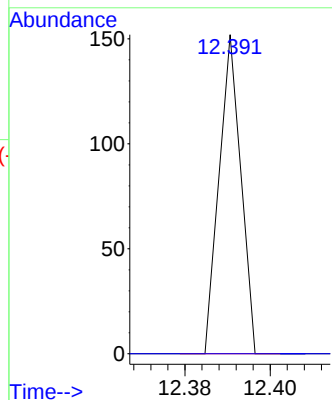
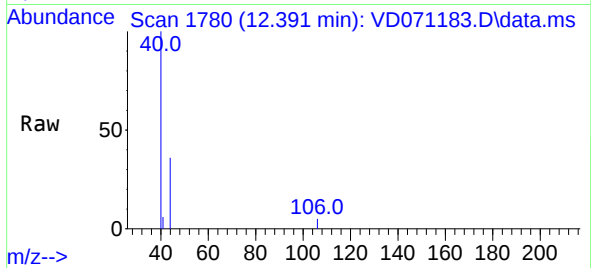




#69
o-Xylene
Concen: 1.307 ug/l
RT: 12.391 min Scan# 11
Delta R.T. 0.218 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

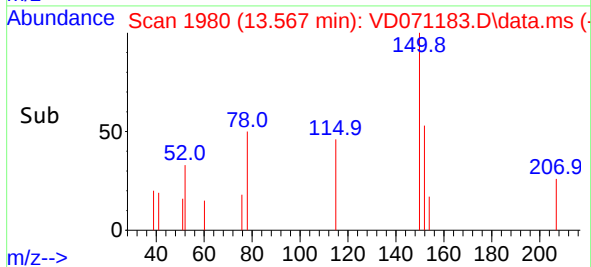
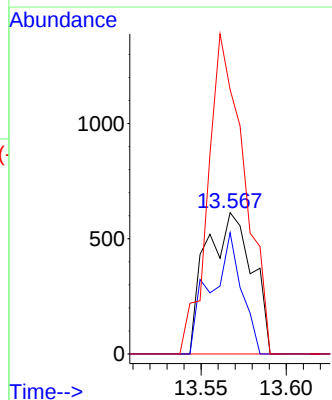
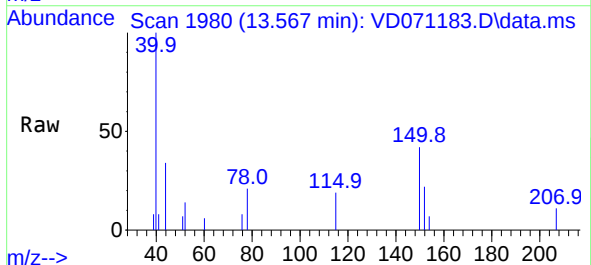
Instrument :
MSVOA_D
ClientSampleId :
TP-2

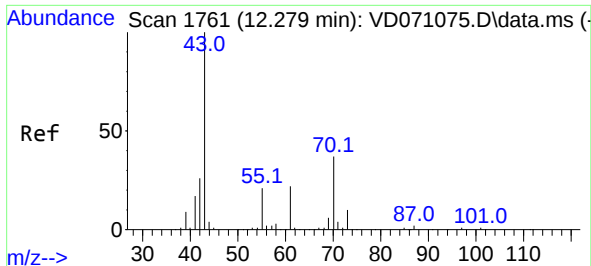
Tgt Ion:106 Resp: 54
Ion Ratio Lower Upper
106 100
91 0.0 106.3 319.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion:152 Resp: 1149
Ion Ratio Lower Upper
152 100
115 57.6 29.8 89.3
150 179.2 0.0 349.2

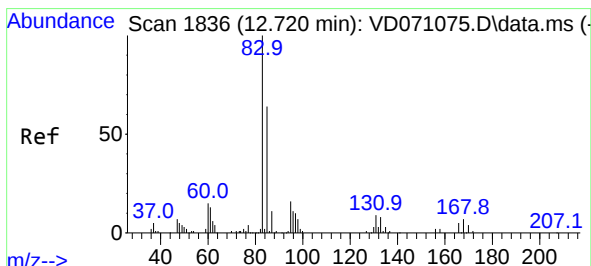
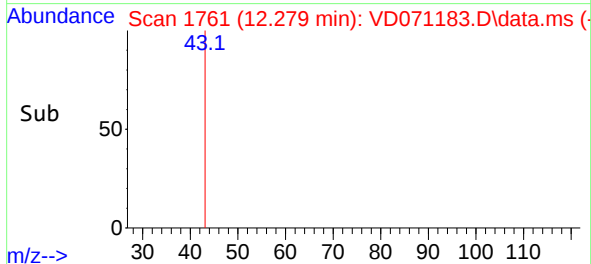
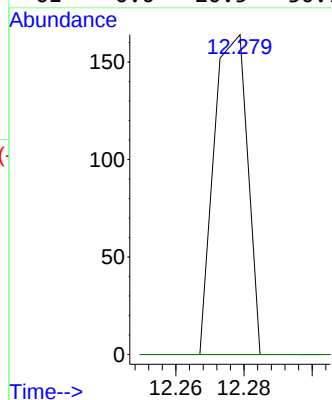
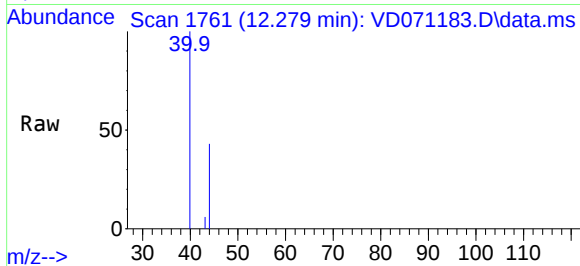




#74
N-amy1 acetate
Concen: 10.057 ug/l
RT: 12.279 min Scan# 111
Delta R.T. -0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

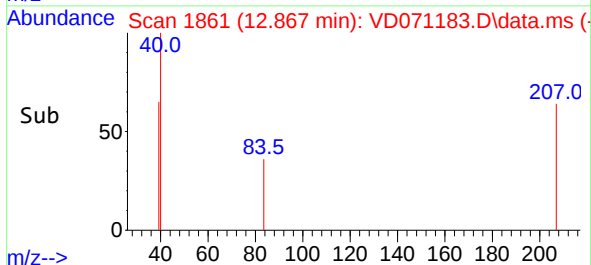
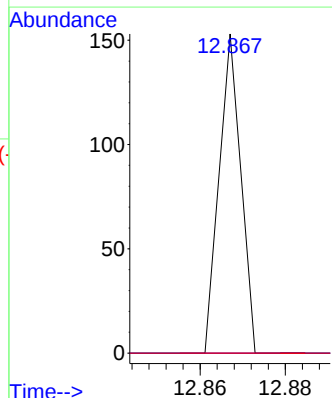
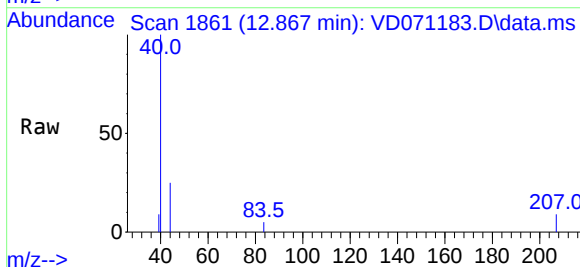
Instrument :
MSVOA_D
ClientSampleId :
TP-2

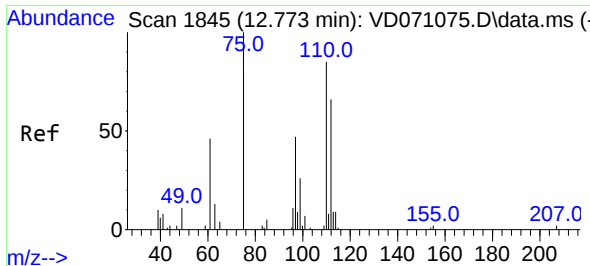
Tgt Ion: 43	Resp:	112
Ion	Ratio	Lower Upper
43	100	
70	0.0	36.6 55.0#
55	0.0	22.5 33.7#
61	0.0	20.5 30.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 3.941 ug/l
RT: 12.867 min Scan# 1861
Delta R.T. 0.147 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 83	Resp:	54
Ion	Ratio	Lower Upper
83	100	
131	0.0	4.9 14.7#
85	0.0	32.0 96.2#

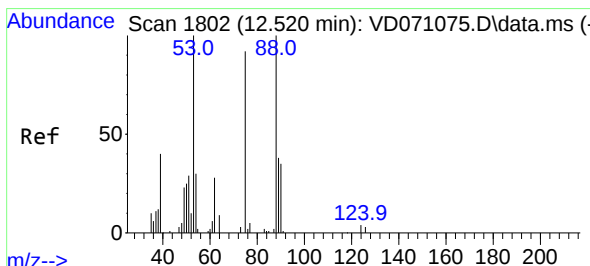
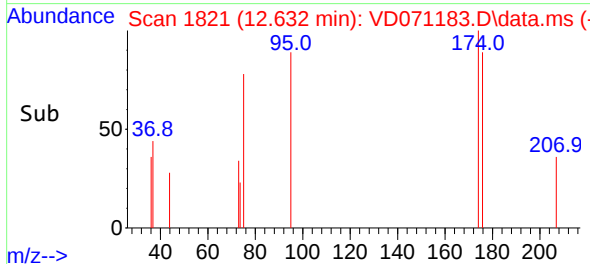
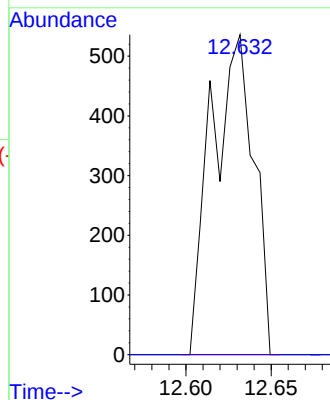
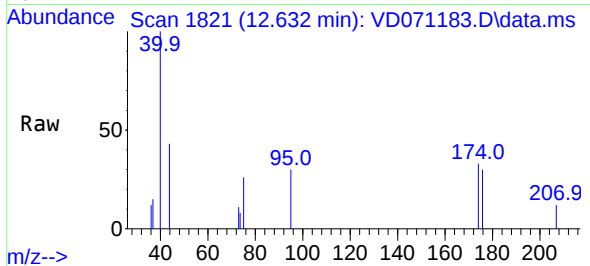




#76
1,2,3-Trichloropropane
Concen: 84.497 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.141 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :
TP-2

Tgt Ion: 75 Resp: 925
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 180.585 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.112 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 75 Resp: 925
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

