

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092021\
 Data File : VD070385.D
 Acq On : 20 Sep 2021 15:45
 Operator : VA/SY
 Sample : M3798-04
 Misc : 7.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 NAPL-07-(22-24)

Quant Time: Sep 21 03:34:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D090821S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 09 03:07:09 2021
 Response via : Initial Calibration

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

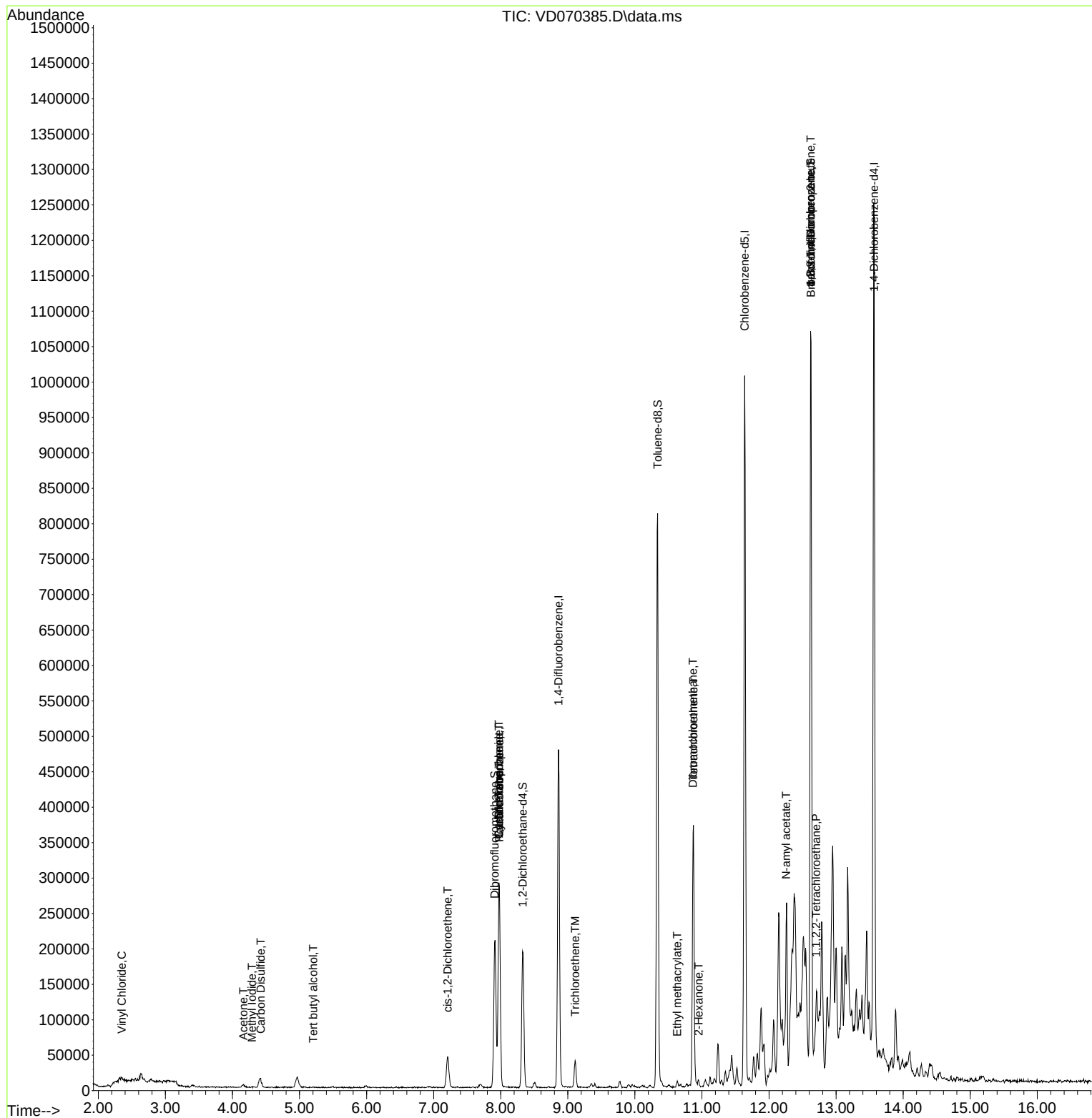
Internal Standards						
1) Pentafluorobenzene	7.979	168	200243	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	403103	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	588087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	322151	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	158044	61.468	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.940%	
35) Dibromofluoromethane	7.909	113	153629	53.542	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.080%	
50) Toluene-d8	10.338	98	559830	53.737	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 107.480%	
62) 4-Bromofluorobenzene	12.620	95	343876	94.448	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 188.900%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.985	85	269	Below Cal	#	43
3) Chloromethane	2.203	50	1139	Below Cal		90
4) Vinyl Chloride	2.350	62	3331	1.057	ug/l #	73
5) Bromomethane	2.774	94	2152	Below Cal	#	76
6) Chloroethane	2.903	64	150	Below Cal	#	43
10) Methyl Iodide	4.291	142	517	1.233	ug/l #	75
11) Tert butyl alcohol	5.203	59	377	1.297	ug/l #	100
16) Acetone	4.162	43	6384	13.907	ug/l #	79
17) Carbon Disulfide	4.420	76	29260	3.402	ug/l	100
18) Methyl Acetate	4.944	43	74	Below Cal	#	48
20) Methylene Chloride	4.968	84	11917	Below Cal	#	90
27) cis-1,2-Dichloroethene	7.209	96	27808	9.328	ug/l	89
31) Cyclohexane	7.973	56	4712	1.064	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	17618	4.089	ug/l #	49
38) Carbon Tetrachloride	7.973	117	22654	5.316	ug/l #	17
44) Trichloroethene	9.108	130	14357	4.758	ug/l	92
56) Ethyl methacrylate	10.632	69	2814	1.098	ug/l #	85
59) 2-Hexanone	10.950	43	3580	3.481	ug/l #	23
60) Dibromochloromethane	10.867	129	82384	30.166	ug/l #	11
64) Tetrachloroethene	10.873	164	86488	24.155	ug/l	95
71) Bromoform	12.626	173	2255	1.023	ug/l #	1
74) N-amyl acetate	12.255	43	46704	9.488	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.702	83	5789	1.196	ug/l #	53
76) 1,2,3-Trichloropropane	12.620	75	168304	51.649	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	168304	129.412	ug/l #	18

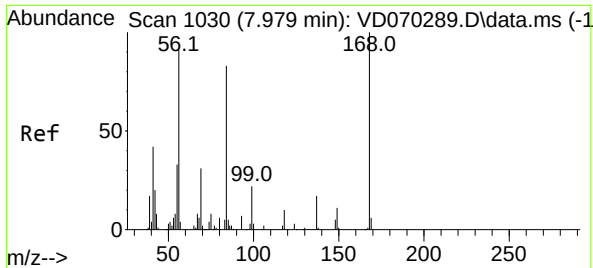
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
NAPL-07-(22-24)

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D090821S.M
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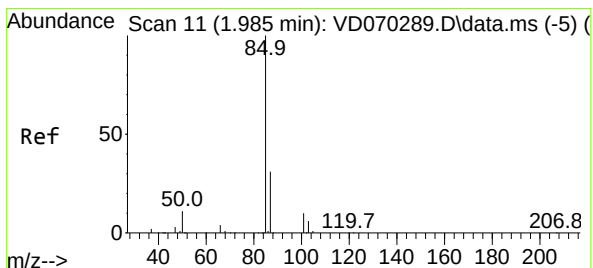
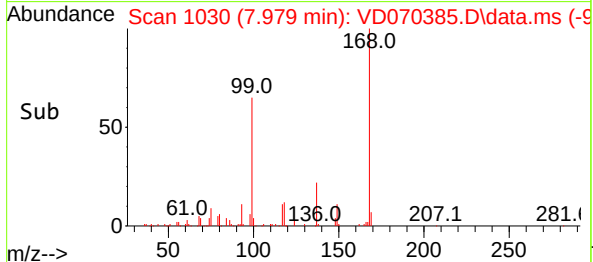
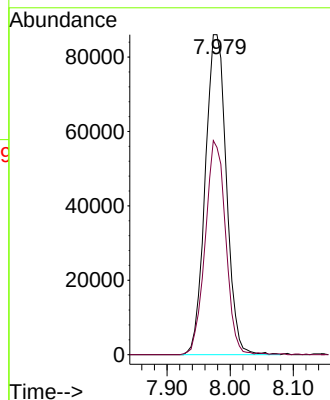
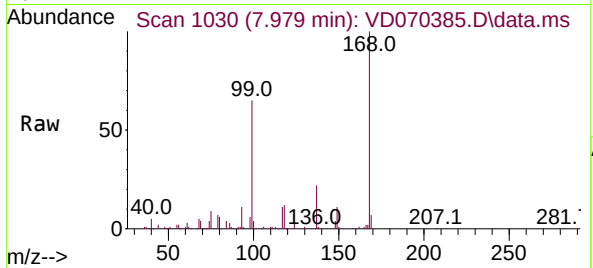




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

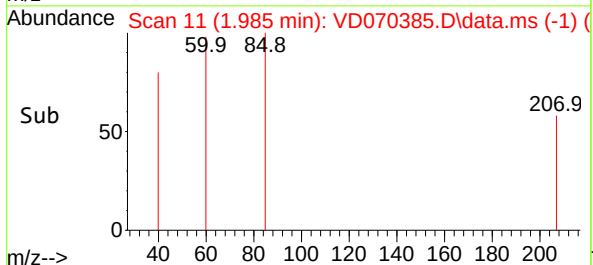
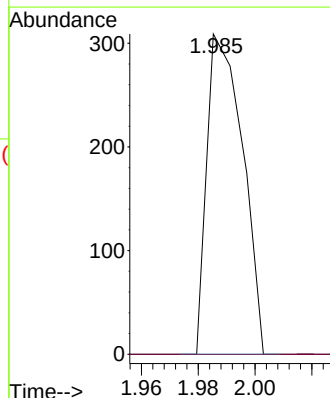
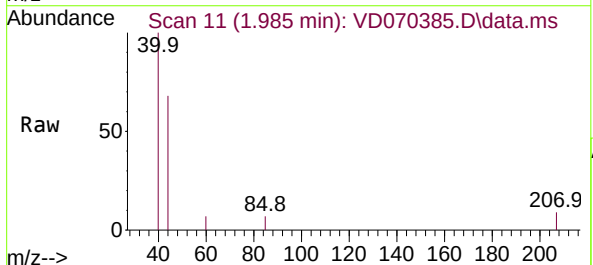
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

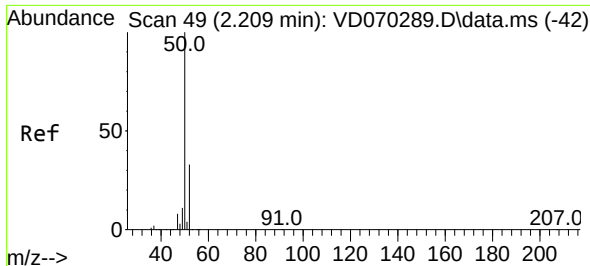
Tgt Ion:168 Resp: 200243
Ion Ratio Lower Upper
168 100
99 64.7 50.8 76.2



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.985 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 85 Resp: 269
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#

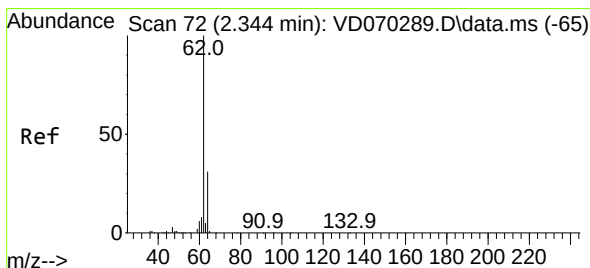
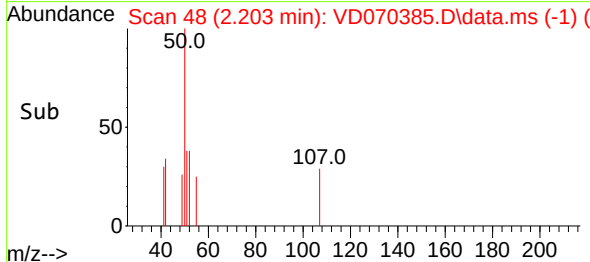
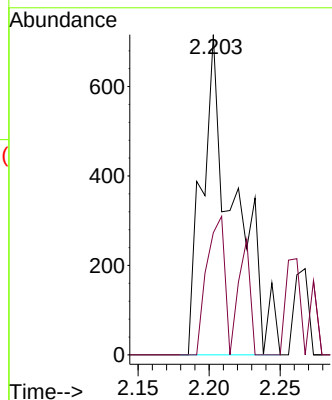
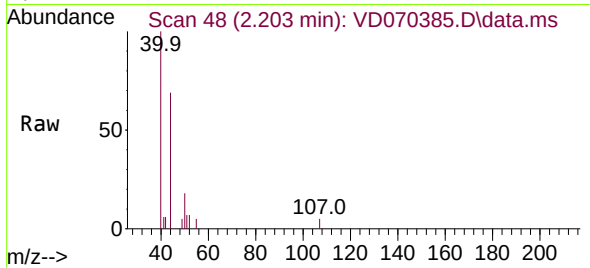




#3
Chloromethane
Concen: Below Cal
RT: 2.203 min Scan# 48
Delta R.T. -0.006 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

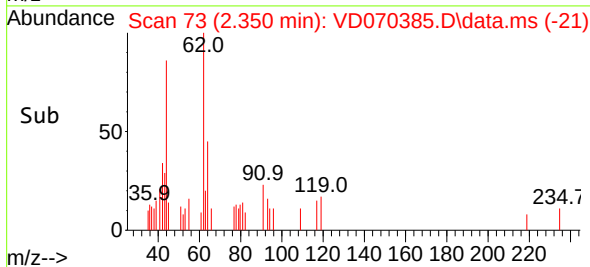
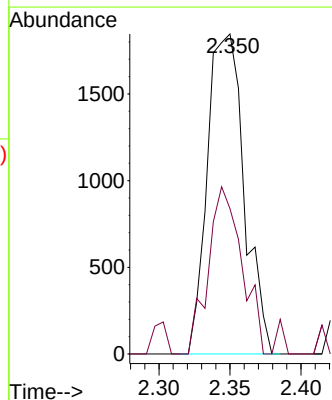
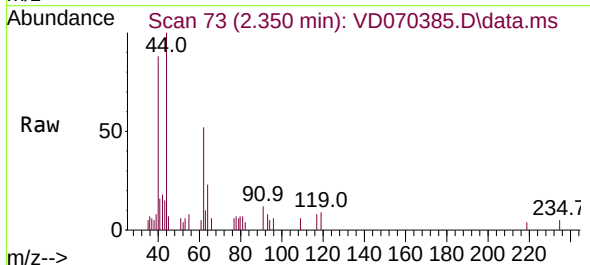
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

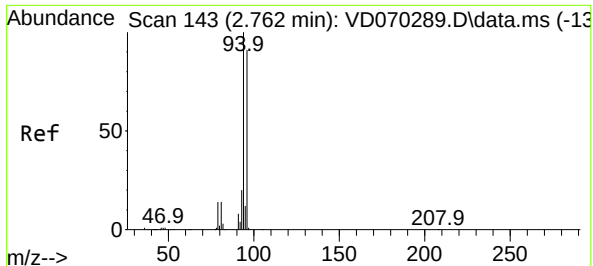
Tgt Ion: 50 Resp: 1139
Ion Ratio Lower Upper
50 100
52 38.1 26.2 39.2



#4
Vinyl Chloride
Concen: 1.057 ug/l
RT: 2.350 min Scan# 73
Delta R.T. 0.006 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 62 Resp: 3331
Ion Ratio Lower Upper
62 100
64 45.4 24.6 36.8#

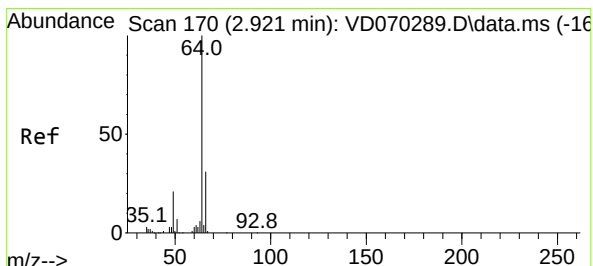
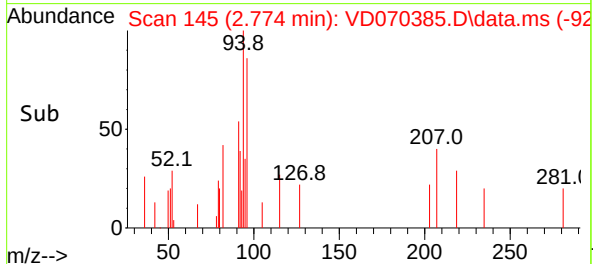
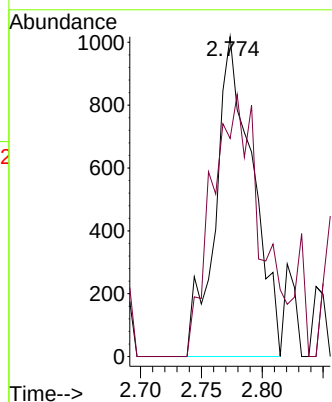
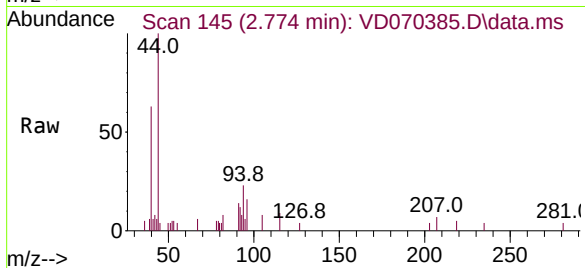




#5
Bromomethane
Concen: Below Cal
RT: 2.774 min Scan# 145
Delta R.T. 0.012 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

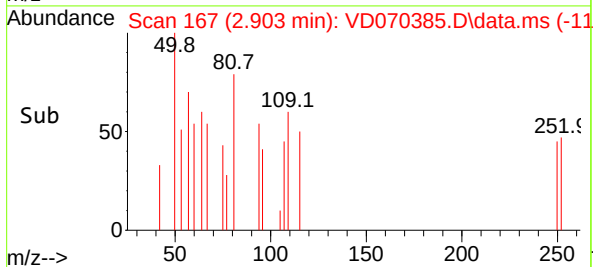
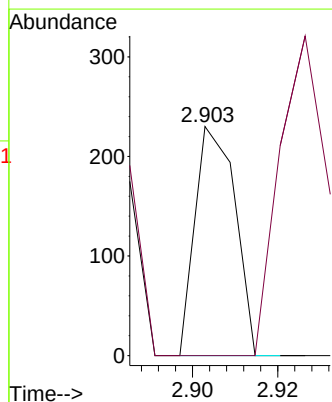
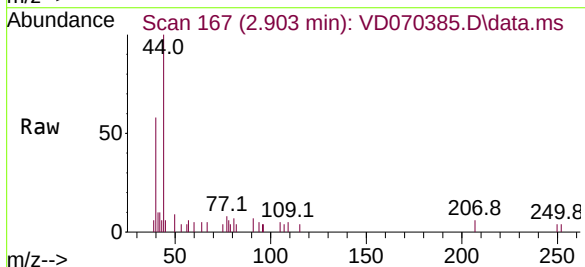
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

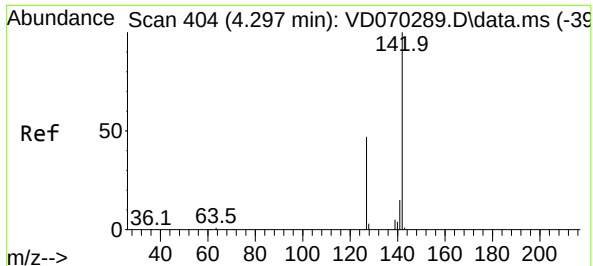
Tgt Ion: 94 Resp: 2152
Ion Ratio Lower Upper
94 100
96 68.2 73.0 109.6#



#6
Chloroethane
Concen: Below Cal
RT: 2.903 min Scan# 167
Delta R.T. -0.018 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 64 Resp: 150
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#

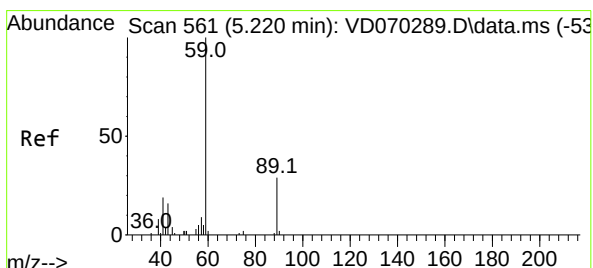
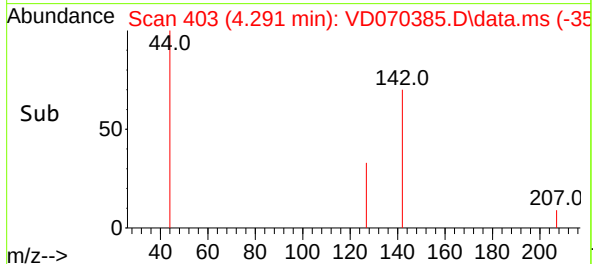
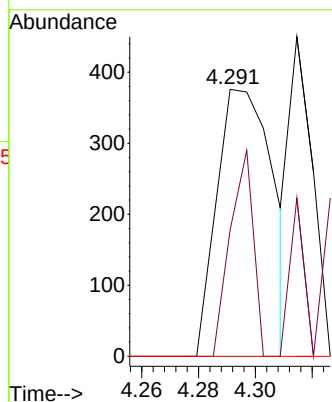
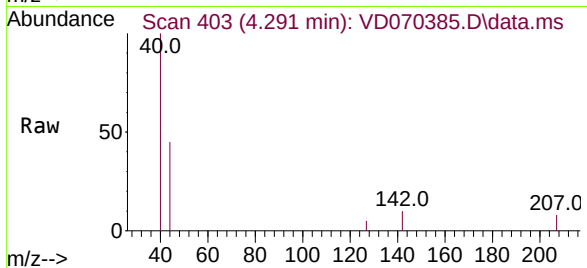




#10
Methyl Iodide
Concen: 1.233 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.006 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

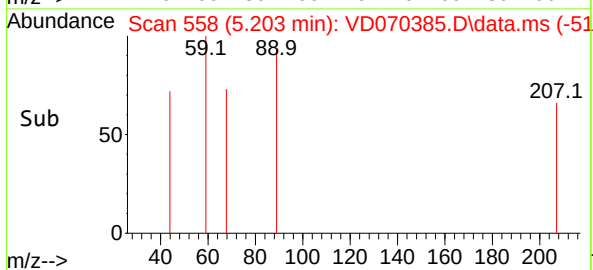
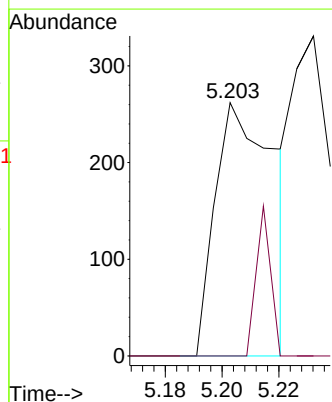
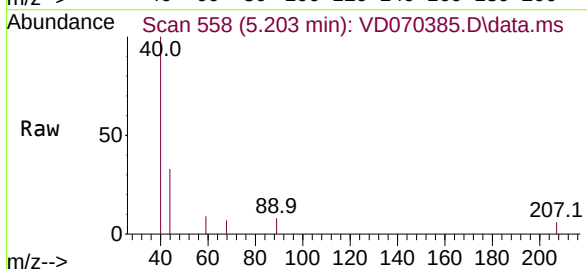
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

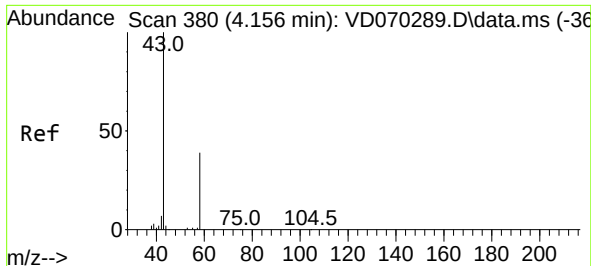
Tgt Ion:142 Resp: 517
Ion Ratio Lower Upper
142 100
127 31.9 36.9 55.3#
141 0.0 11.8 17.6#



#11
Tert butyl alcohol
Concen: 1.297 ug/l
RT: 5.203 min Scan# 558
Delta R.T. -0.017 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 59 Resp: 377
Ion Ratio Lower Upper
59 100
57 14.6 0.0 0.0#

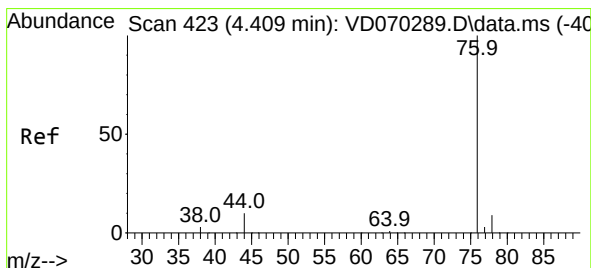
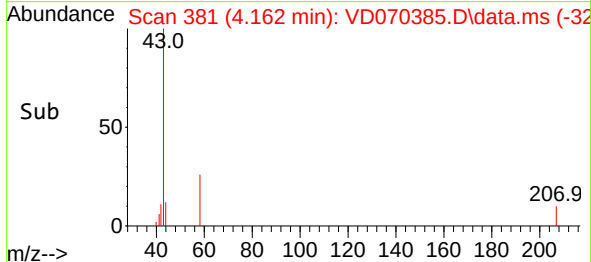
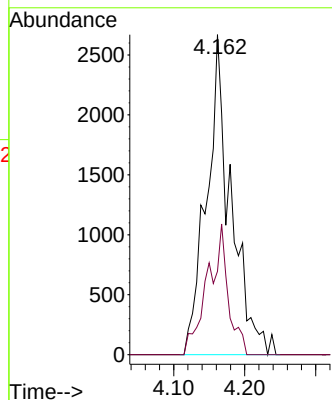
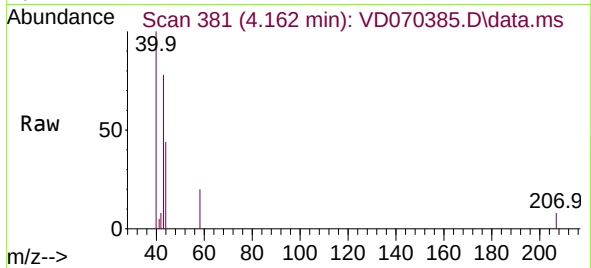




#16
Acetone
Concen: 13.907 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

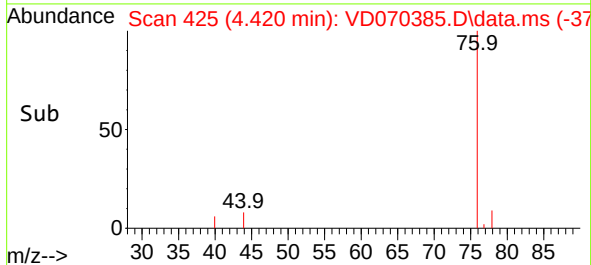
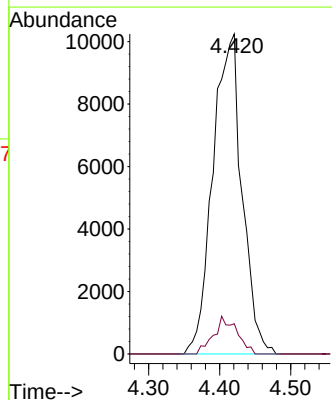
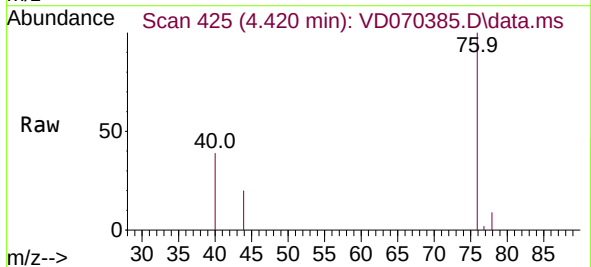
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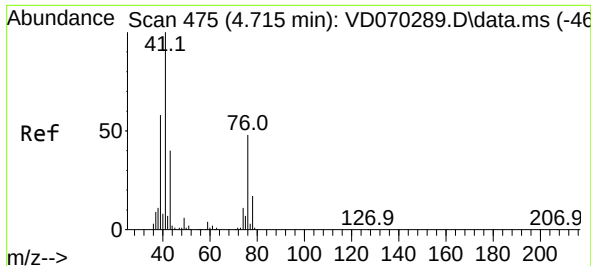
Tgt Ion: 43 Resp: 6384
Ion Ratio Lower Upper
43 100
58 26.0 30.9 46.3#



#17
Carbon Disulfide
Concen: 3.402 ug/l
RT: 4.420 min Scan# 425
Delta R.T. 0.012 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 76 Resp: 29260
Ion Ratio Lower Upper
76 100
78 9.5 7.5 11.3

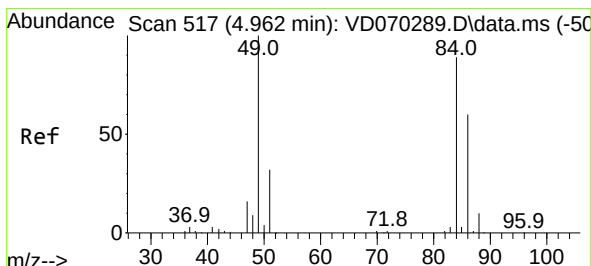
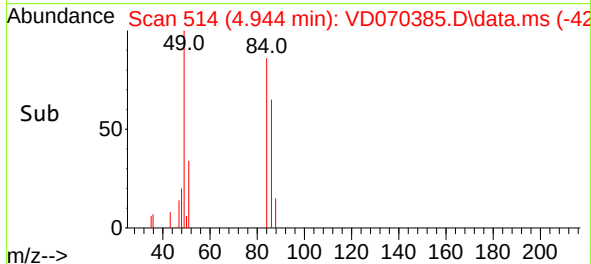
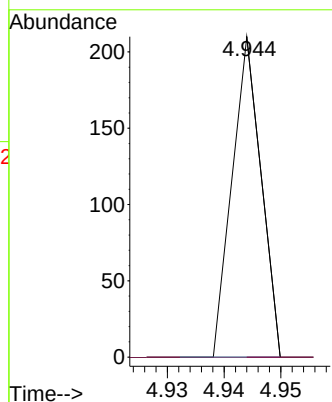
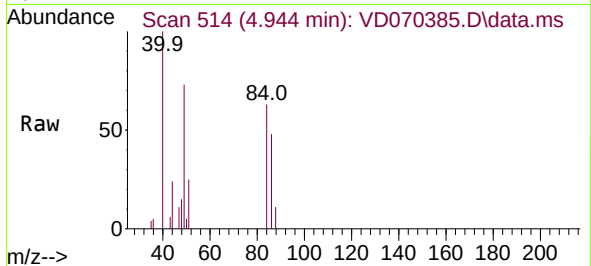




#18
Methyl Acetate
Concen: Below Cal
RT: 4.944 min Scan# 514
Delta R.T. 0.229 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

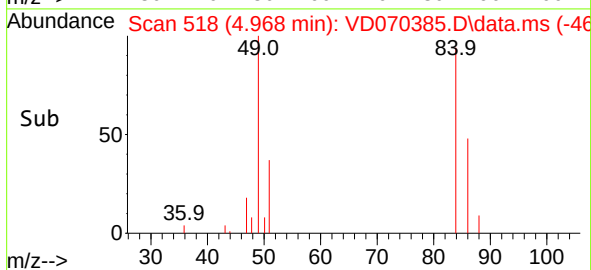
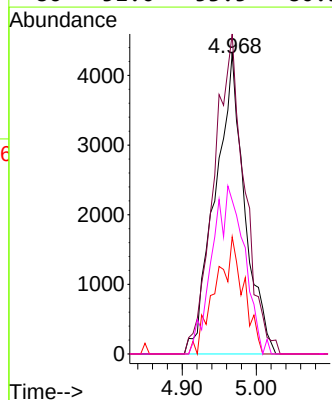
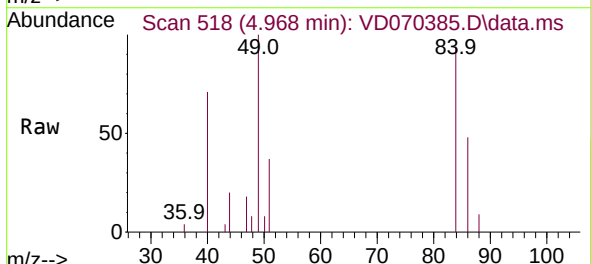
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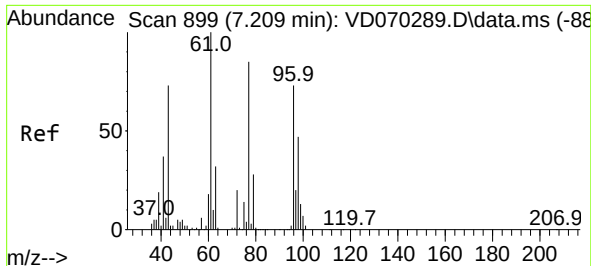
Tgt Ion: 43 Resp: 74
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.968 min Scan# 518
Delta R.T. 0.006 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 84 Resp: 11917
Ion Ratio Lower Upper
84 100
49 106.3 89.6 134.4
51 38.9 28.6 43.0
86 51.0 53.5 80.3#

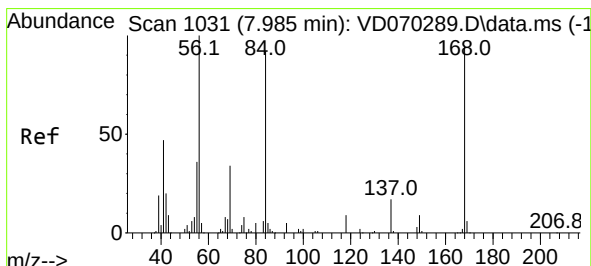
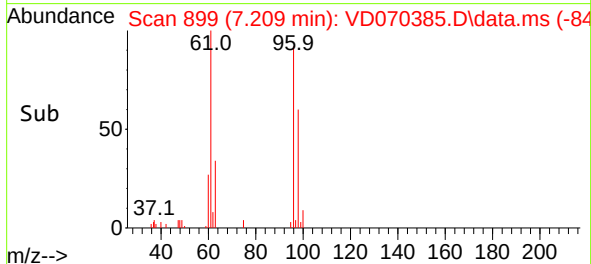
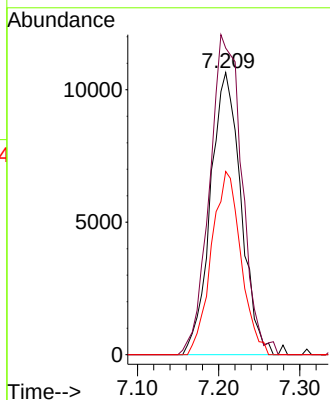
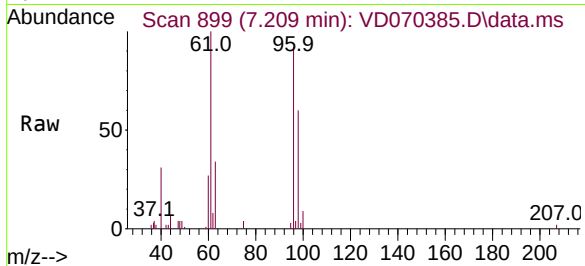




#27
 cis-1,2-Dichloroethene
 Concen: 9.328 ug/l
 RT: 7.209 min Scan# 899
 Delta R.T. 0.000 min
 Lab File: VD070385.D
 Acq: 20 Sep 2021 15:45

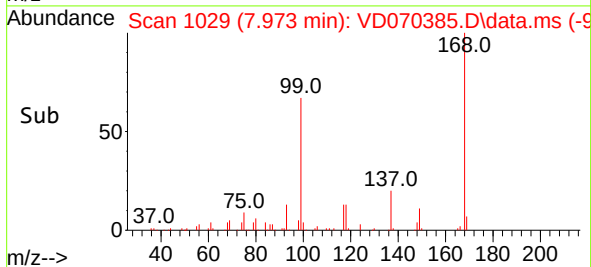
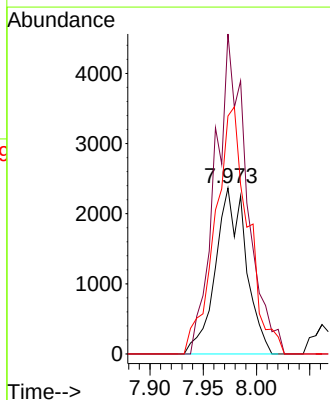
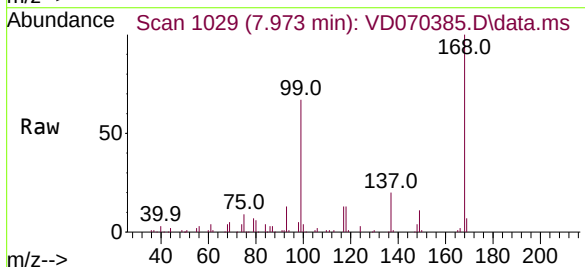
Instrument :
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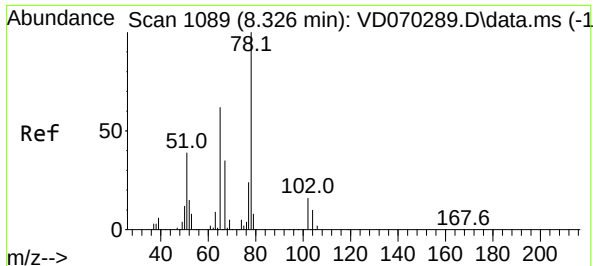
Tgt Ion:	96	Resp:	27808
Ion	Ratio	Lower	Upper
96	100		
61	120.2	0.0	277.4
98	62.7	0.0	130.0



#31
 Cyclohexane
 Concen: 1.064 ug/l
 RT: 7.973 min Scan# 1029
 Delta R.T. -0.012 min
 Lab File: VD070385.D
 Acq: 20 Sep 2021 15:45

Tgt Ion:	56	Resp:	4712
Ion	Ratio	Lower	Upper
56	100		
69	192.9	26.9	40.3#
84	155.3	73.6	110.4#



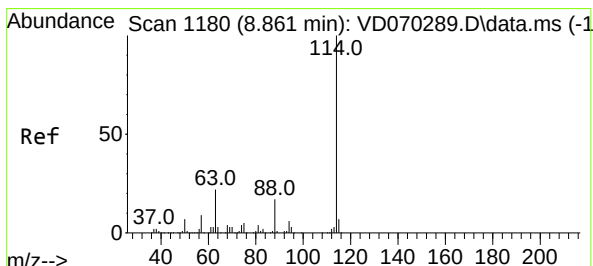
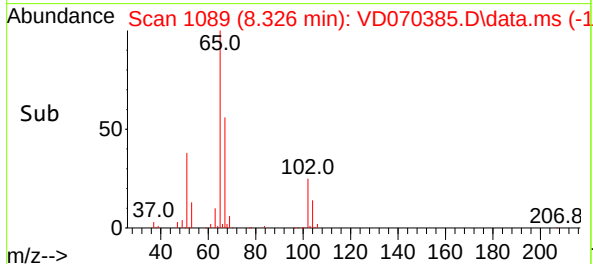
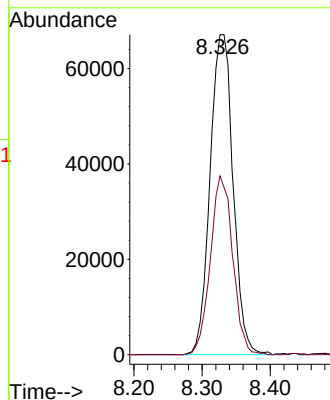
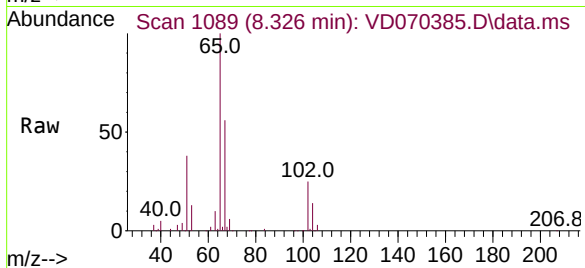


#33

1,2-Dichloroethane-d4
Concen: 61.468 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

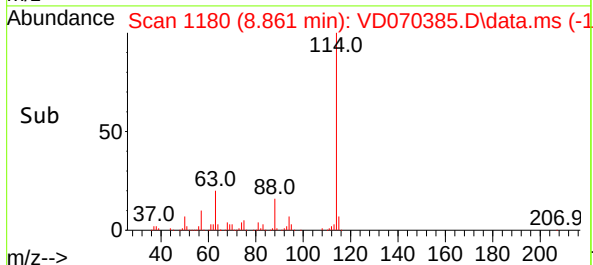
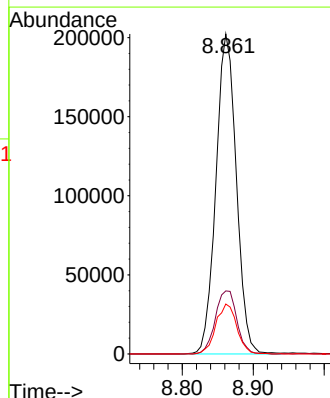
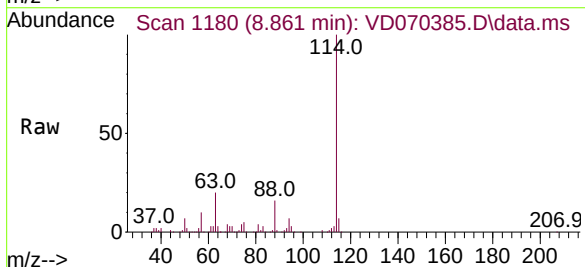
Tgt Ion: 65 Resp: 158044
Ion Ratio Lower Upper
65 100
67 54.1 0.0 111.4

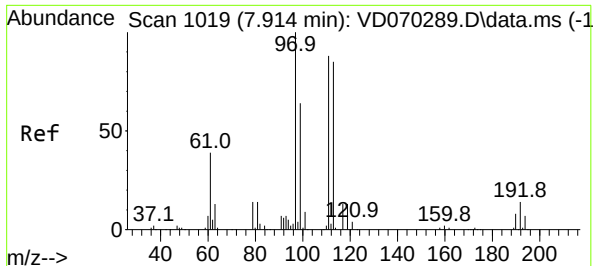


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion:114 Resp: 403103
Ion Ratio Lower Upper
114 100
63 19.7 0.0 43.4
88 15.6 0.0 33.4





#35

Dibromofluoromethane

Concen: 53.542 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD070385.D

Acq: 20 Sep 2021 15:45

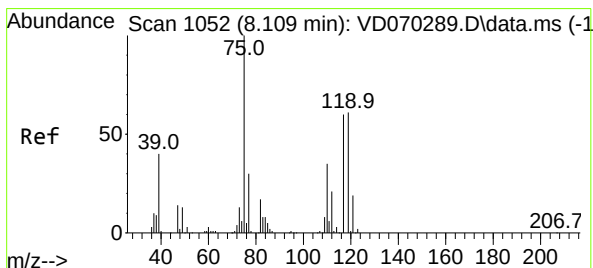
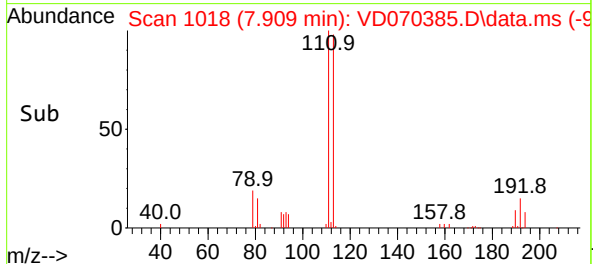
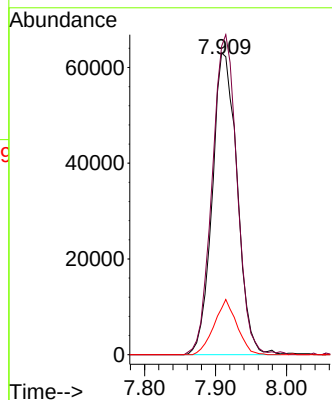
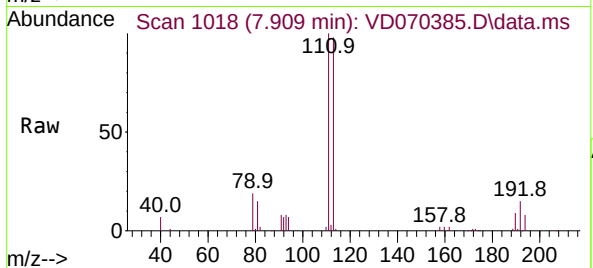
Tgt Ion:113 Resp: 153629

Ion Ratio Lower Upper

113 100

111 106.0 81.4 122.2

192 16.7 13.0 19.6



#36

1,1-Dichloropropene

Concen: 4.089 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD070385.D

Acq: 20 Sep 2021 15:45

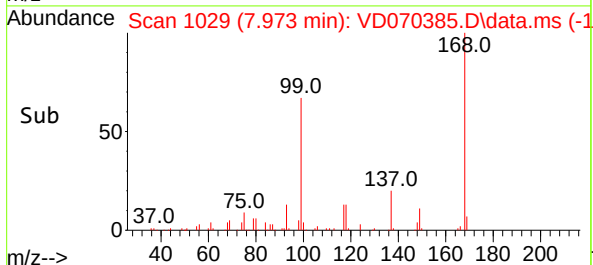
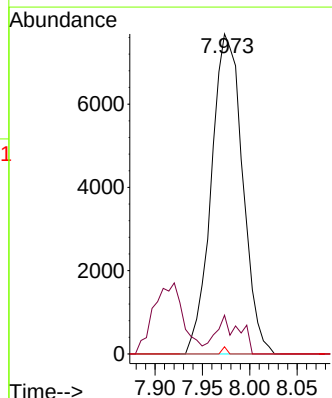
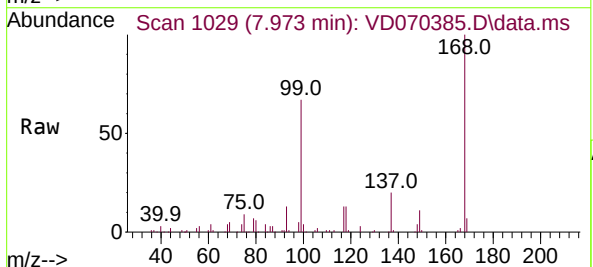
Tgt Ion: 75 Resp: 17618

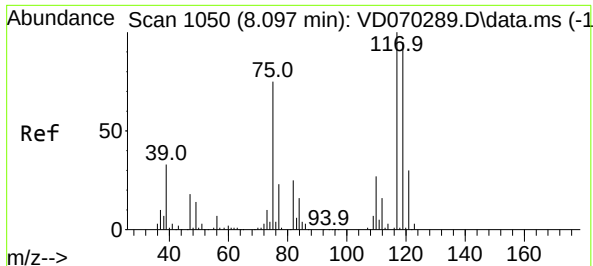
Ion Ratio Lower Upper

75 100

110 9.1 17.9 53.7#

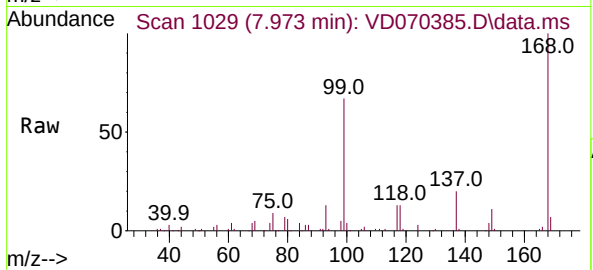
77 0.3 25.3 37.9#



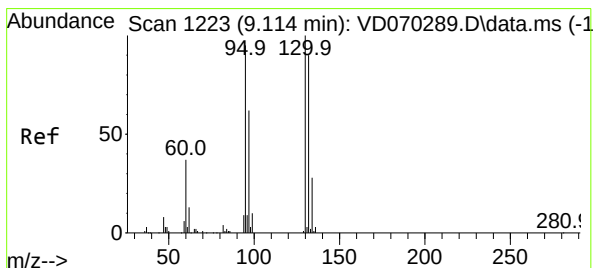
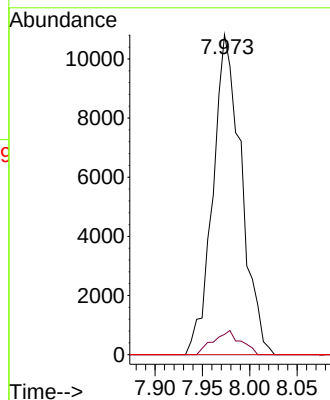
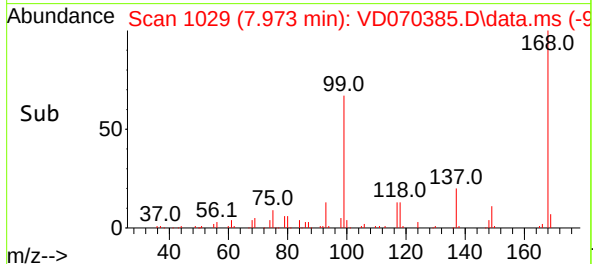


#38
Carbon Tetrachloride
Concen: 5.316 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

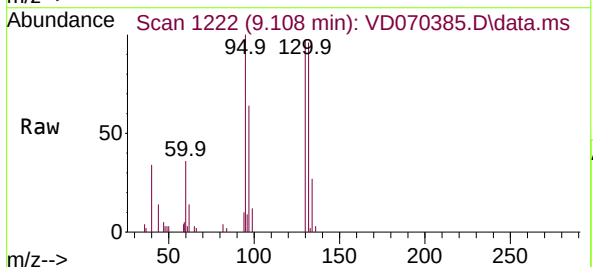
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)



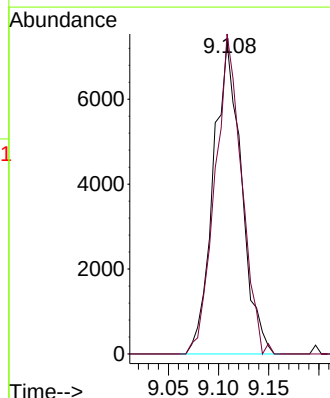
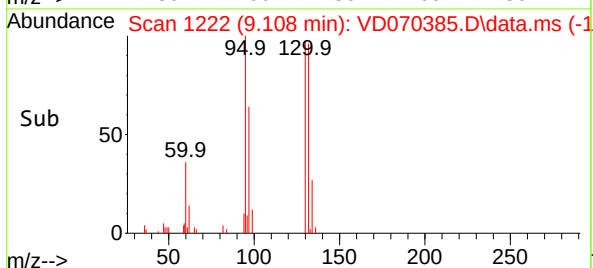
Tgt Ion:117 Resp: 22654
Ion Ratio Lower Upper
117 100
119 6.3 76.1 114.1#
121 0.0 23.8 35.6#

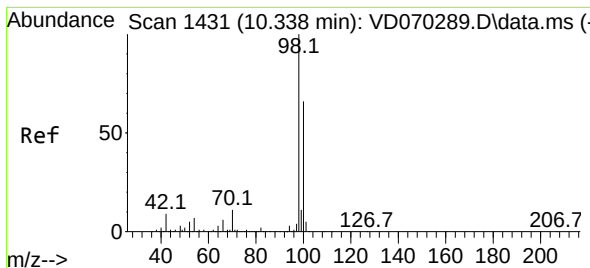


#44
Trichloroethene
Concen: 4.758 ug/l
RT: 9.108 min Scan# 1222
Delta R.T. -0.006 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45



Tgt Ion:130 Resp: 14357
Ion Ratio Lower Upper
130 100
95 102.6 0.0 190.0

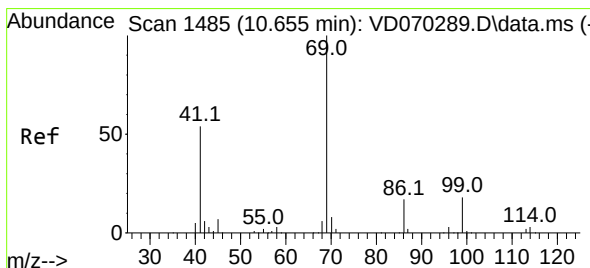
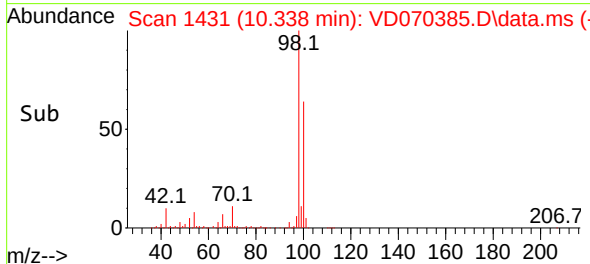
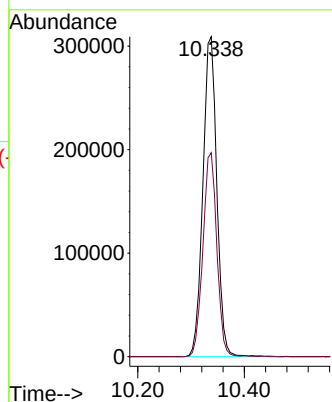
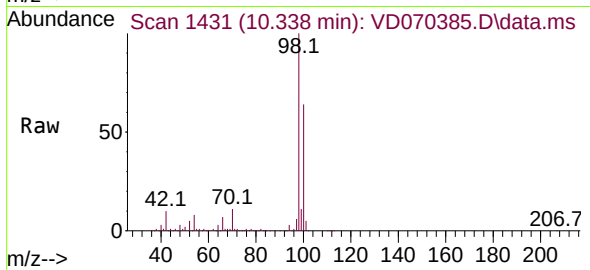




#50
Toluene-d8
Concen: 53.737 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

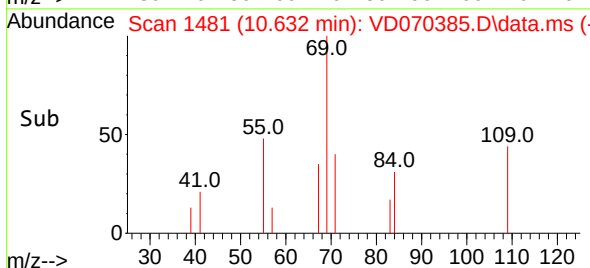
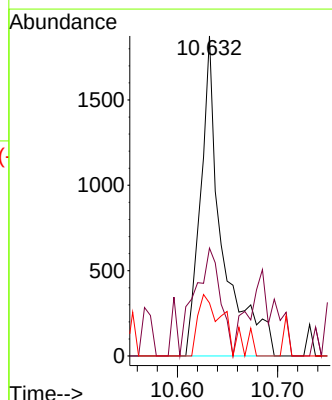
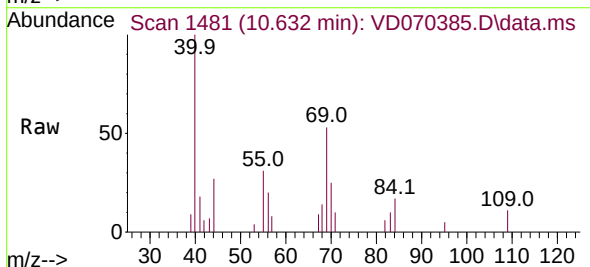
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

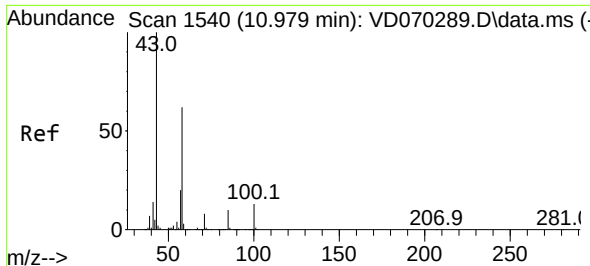
Tgt Ion: 98 Resp: 559830
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#56
Ethyl methacrylate
Concen: 1.098 ug/l
RT: 10.632 min Scan# 1481
Delta R.T. -0.024 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 69 Resp: 2814
Ion Ratio Lower Upper
69 100
41 39.8 43.6 65.4#
39 24.3 18.6 28.0

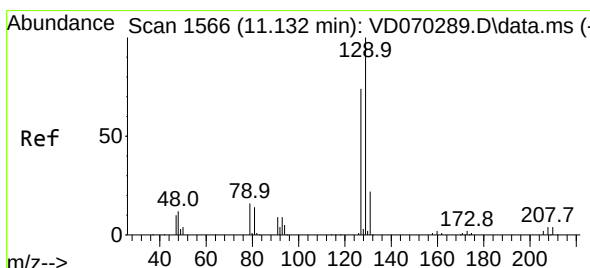
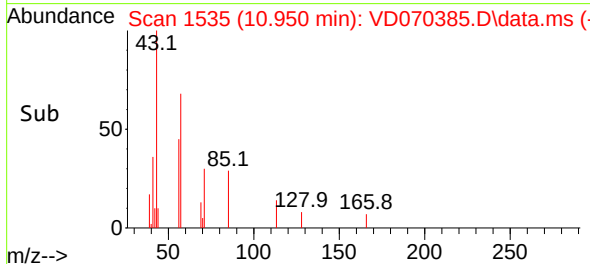
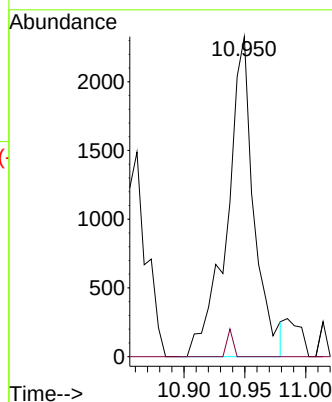
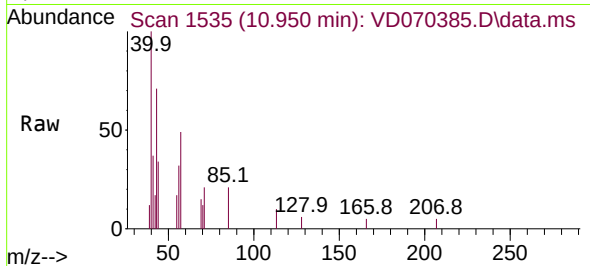




#59
2-Hexanone
Concen: 3.481 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.029 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

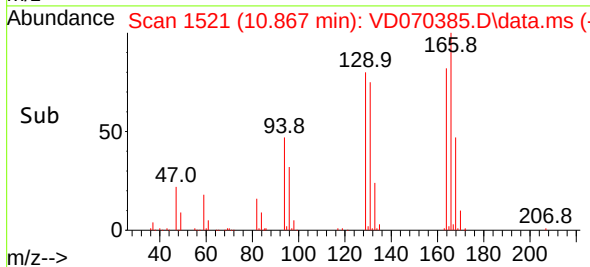
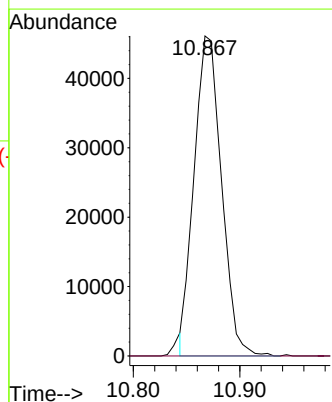
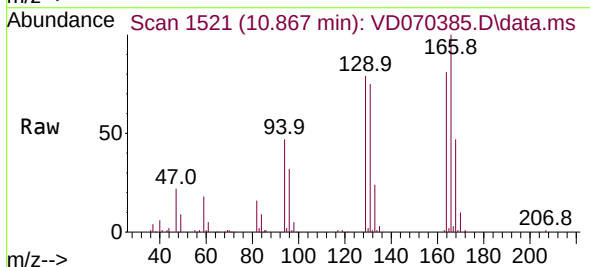
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

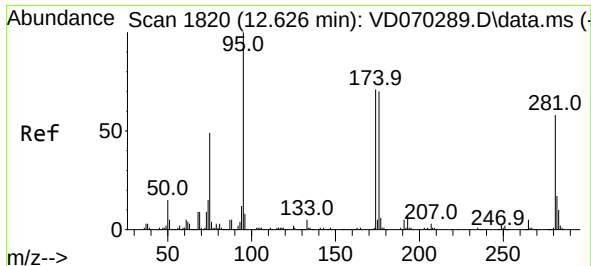
Tgt Ion: 43 Resp: 3580
Ion Ratio Lower Upper
43 100
58 2.0 30.6 91.6#



#60
Dibromochloromethane
Concen: 30.166 ug/l
RT: 10.867 min Scan# 1521
Delta R.T. -0.265 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 129 Resp: 82384
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#

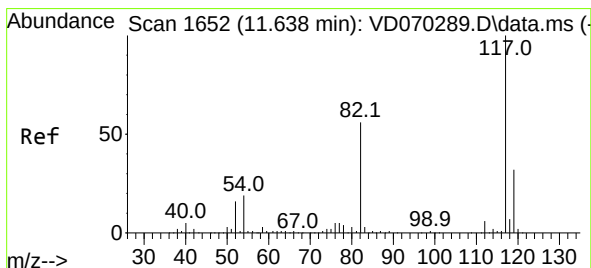
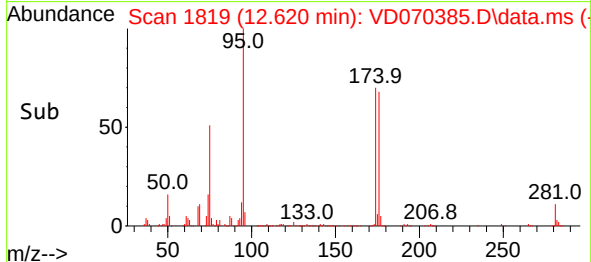
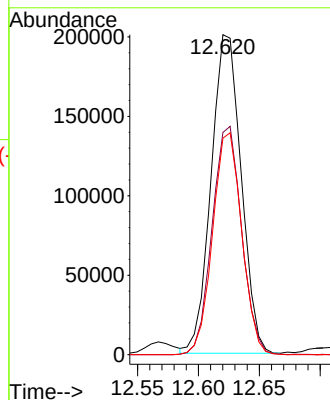
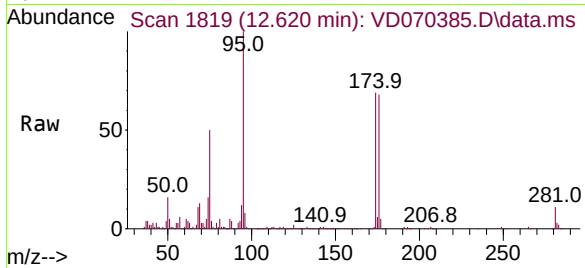




#62
4-Bromofluorobenzene
Concen: 94.448 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

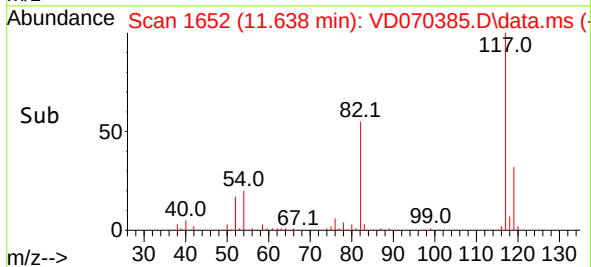
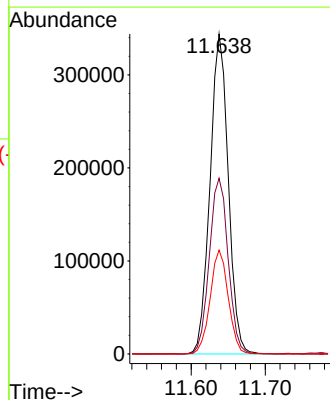
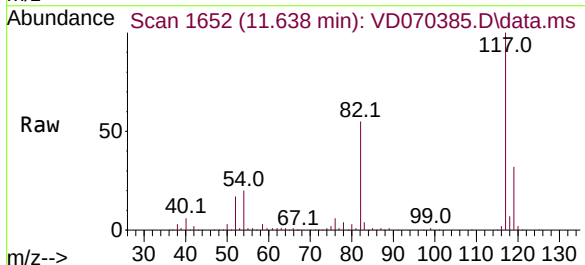
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

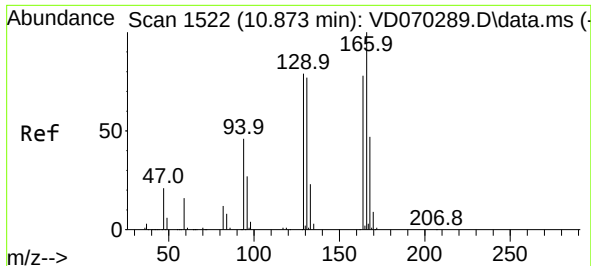
Tgt Ion: 95 Resp: 343876
Ion Ratio Lower Upper
95 100
174 70.3 0.0 140.6
176 67.5 0.0 137.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 117 Resp: 588087
Ion Ratio Lower Upper
117 100
82 54.9 45.0 67.4
119 32.4 25.2 37.8

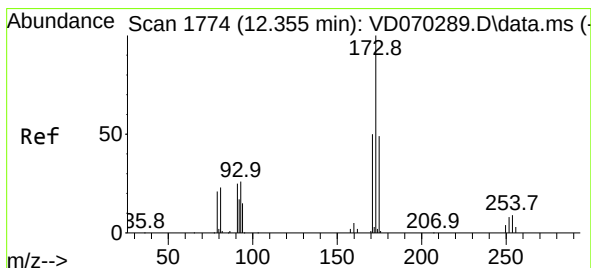
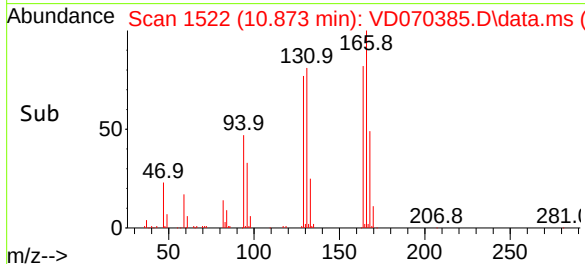
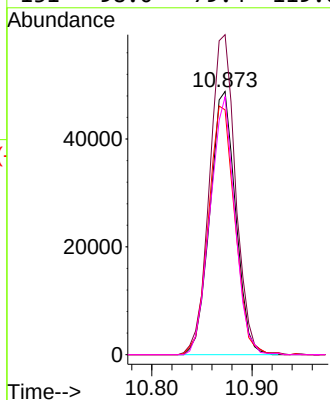
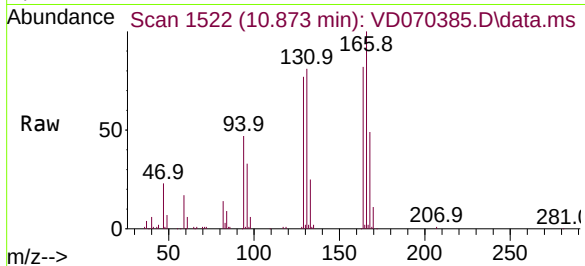




#64
Tetrachloroethene
Concen: 24.155 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. 0.000 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

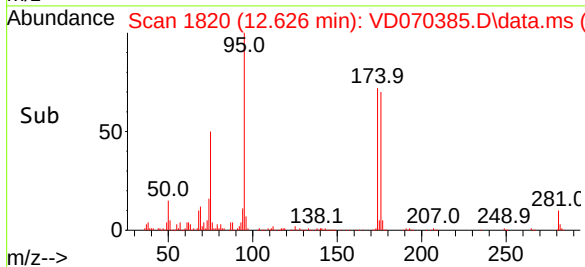
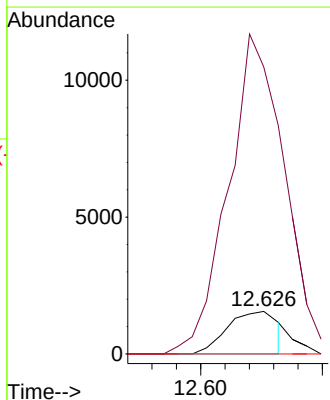
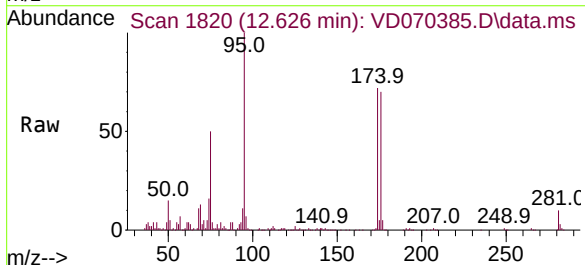
Instrument :
MSVOA_D
ClientSampleId :
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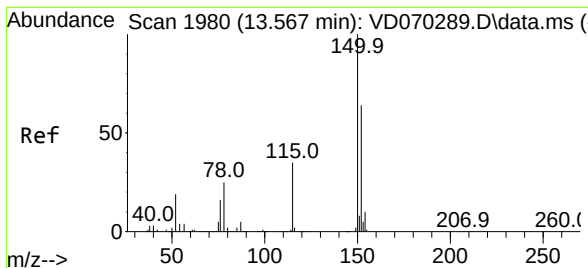
Tgt Ion:	164	Resp:	86488
Ion Ratio	Lower	Upper	
164	100		
166	121.6	102.4	153.6
129	93.0	80.9	121.3
131	98.0	79.4	119.0



#71
Bromoform
Concen: 1.023 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion:	173	Resp:	2255
Ion Ratio	Lower	Upper	
173	100		
175	710.1	25.1	75.2#
254	0.0	0.1	0.1#

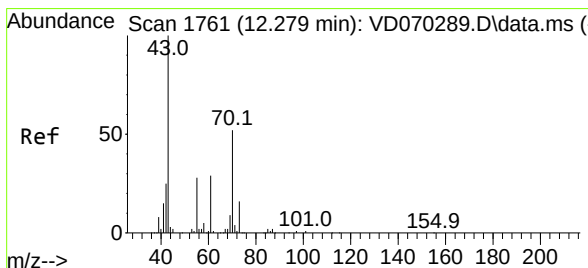
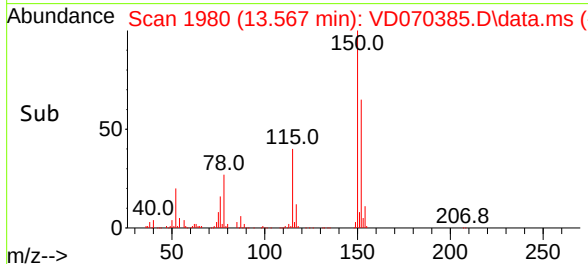
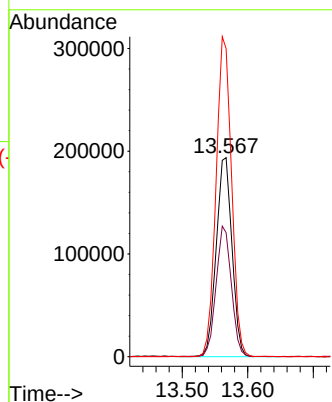
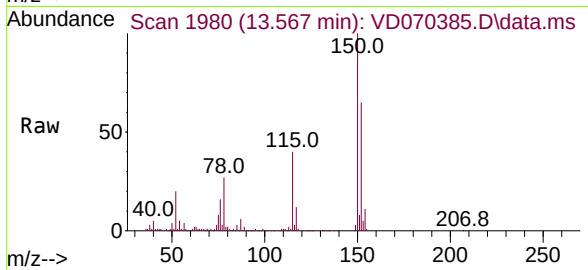




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.567 min Scan# 1980
 Delta R.T. 0.000 min
 Lab File: VD070385.D
 Acq: 20 Sep 2021 15:45

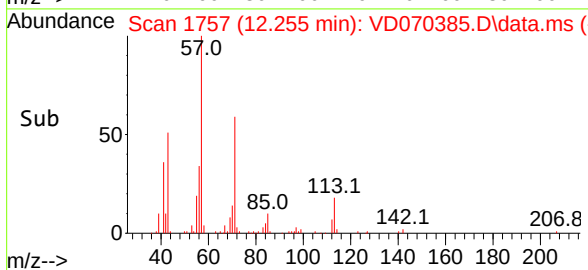
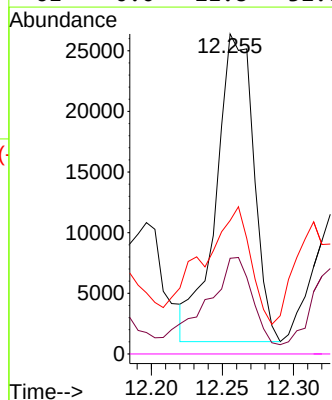
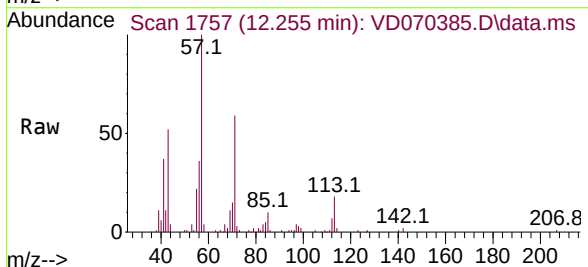
Instrument :
 MSVOA_D
 ClientSampleId :
 NAPL-07-(22-24)

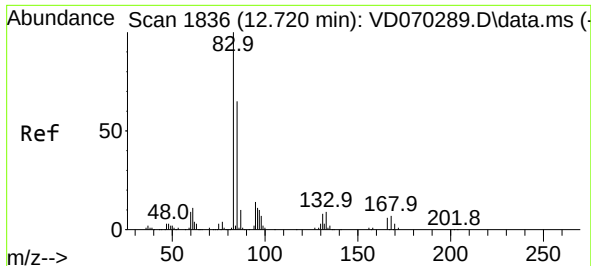
Tgt Ion:152 Resp: 322151
 Ion Ratio Lower Upper
 152 100
 115 63.7 32.1 96.3
 150 158.1 0.0 350.6



#74
 N-ethyl acetate
 Concen: 9.488 ug/l
 RT: 12.255 min Scan# 1757
 Delta R.T. -0.024 min
 Lab File: VD070385.D
 Acq: 20 Sep 2021 15:45

Tgt Ion: 43 Resp: 46704
 Ion Ratio Lower Upper
 43 100
 70 33.8 41.4 62.0#
 55 48.9 22.8 34.2#
 61 0.0 21.8 32.6#

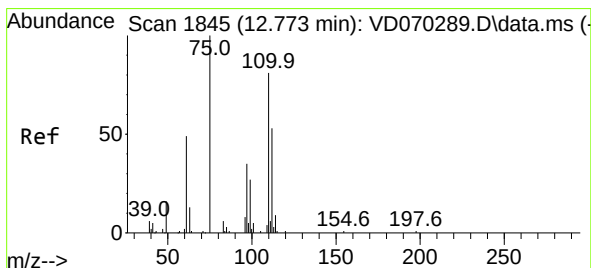
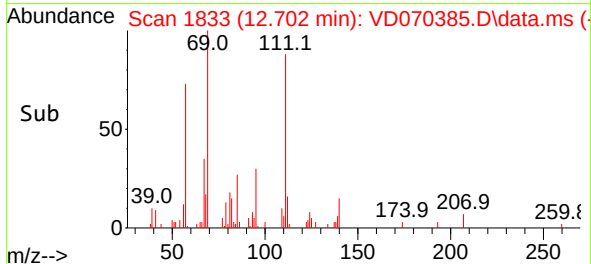
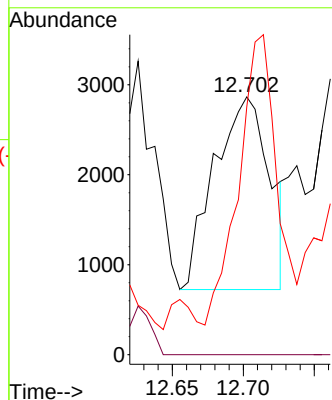
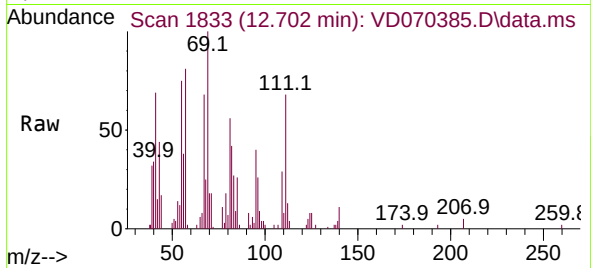




#75
1,1,2,2-Tetrachloroethane
Concen: 1.196 ug/l
RT: 12.702 min Scan# 1833
Delta R.T. -0.018 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

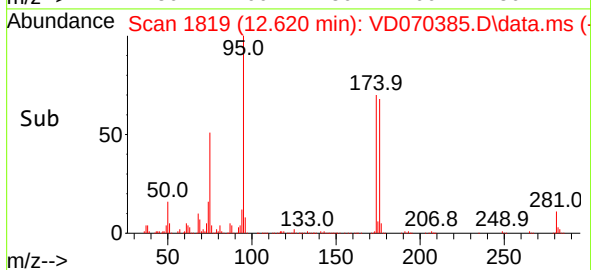
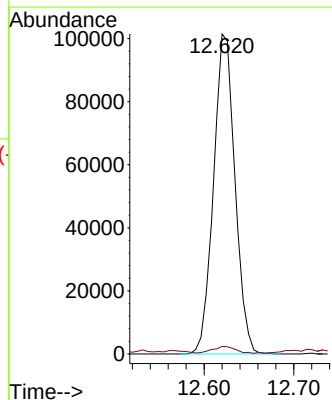
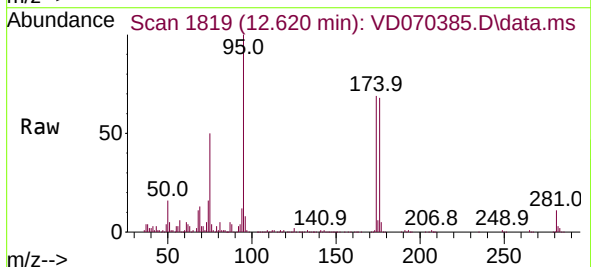
Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)

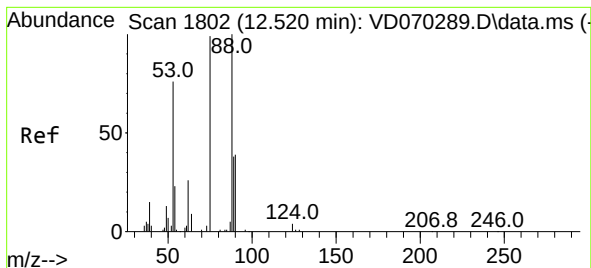
Tgt Ion: 83 Resp: 5789
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 103.2 32.1 96.3#



#76
1,2,3-Trichloropropane
Concen: 51.649 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070385.D
Acq: 20 Sep 2021 15:45

Tgt Ion: 75 Resp: 168304
Ion Ratio Lower Upper
75 100
77 2.3 174.9 524.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 129.412 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. 0.100 min

Lab File: VD070385.D

Acq: 20 Sep 2021 15:45

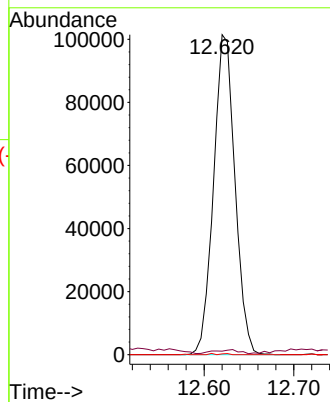
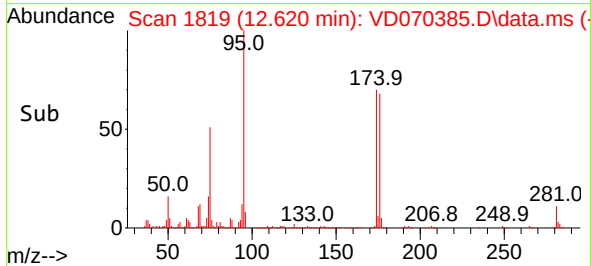
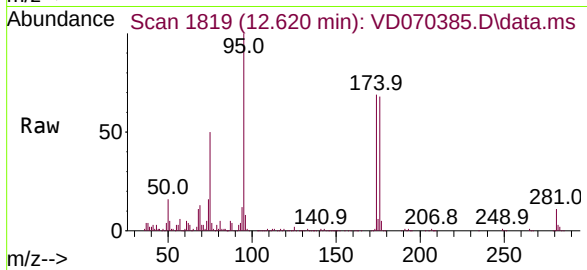
Tgt Ion: 75 Resp: 168304

Ion Ratio Lower Upper

75 100

53 1.4 64.2 96.2#

89 0.1 35.6 53.4#



Instrument :
MSVOA_D
ClientSampleId :
NAPL-07-(22-24)