

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092021\
 Data File : VD070390.D
 Acq On : 20 Sep 2021 18:08
 Operator : VA/SY
 Sample : M3798-02RE
 Misc : 6.67G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 NAPL-06-(30-32)RE

Quant Time: Sep 21 03:35:45 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)

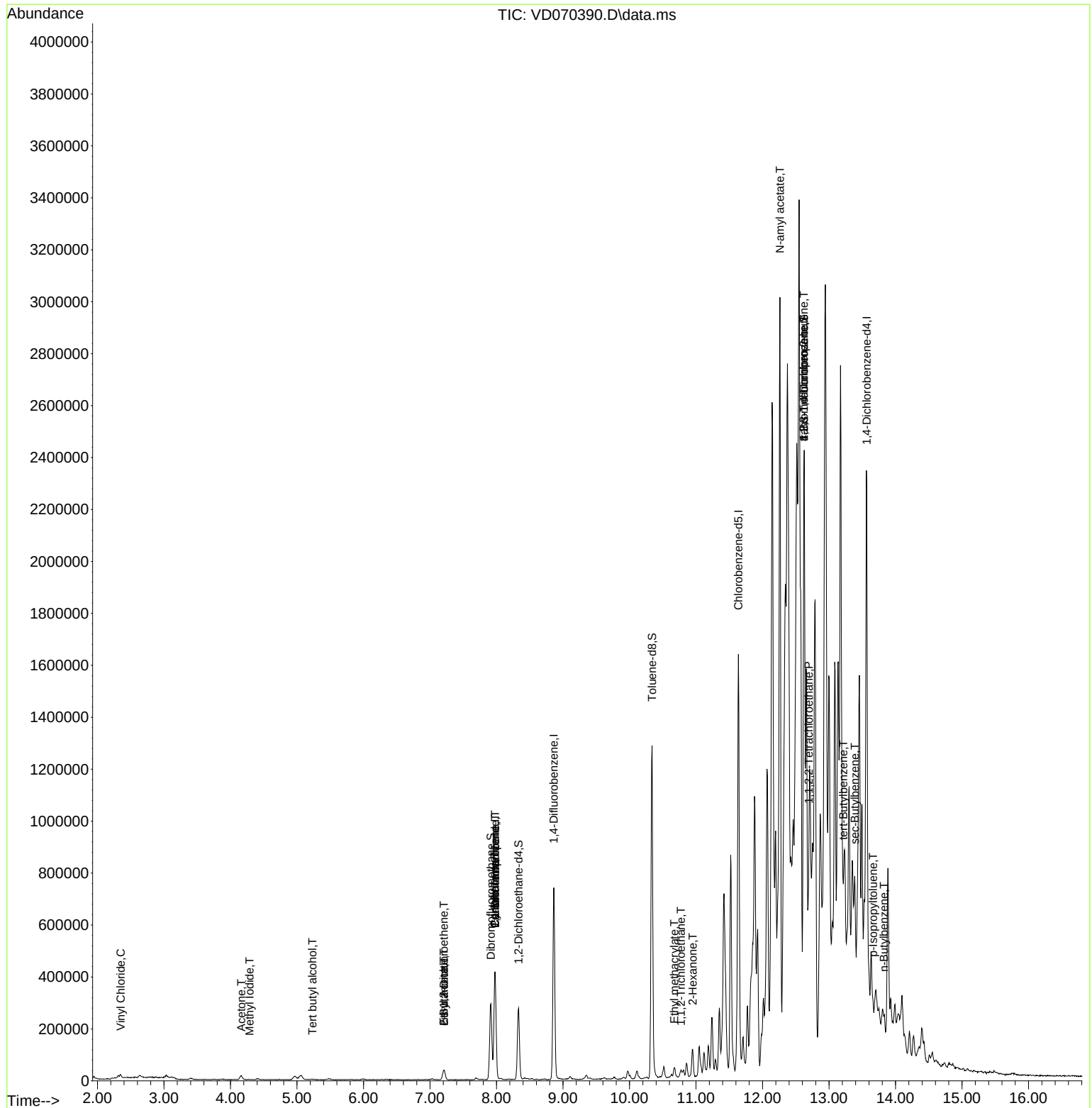
Internal Standards						
1) Pentafluorobenzene	7.979	168	291989	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	607417	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	915414	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	497591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	221837	59.169	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.340%			
35) Dibromofluoromethane	7.914	113	214200	49.541	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.080%			
50) Toluene-d8	10.338	98	873731	55.658	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 111.320%			
62) 4-Bromofluorobenzene	12.620	95	549624	100.181	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 200.360%#			
Target Compounds						Qvalue
3) Chloromethane	2.215	50	795	Below Cal	#	31
4) Vinyl Chloride	2.350	62	6954	1.514	ug/l #	86
5) Bromomethane	2.779	94	2067	Below Cal	#	68
6) Chloroethane	2.868	64	98	Below Cal	#	43
10) Methyl Iodide	4.285	142	835	1.255	ug/l #	46
11) Tert butyl alcohol	5.232	59	3398	8.016	ug/l #	100
16) Acetone	4.162	43	25668	38.347	ug/l #	83
18) Methyl Acetate	4.715	43	193	Below Cal	#	48
20) Methylene Chloride	4.962	84	10239	Below Cal		90
25) 2-Butanone	7.209	43	2948	3.309	ug/l #	74
27) cis-1,2-Dichloroethene	7.209	96	22387	5.150	ug/l	89
31) Cyclohexane	7.973	56	9243	1.431	ug/l #	5
36) 1,1-Dichloropropene	7.979	75	26305	4.052	ug/l #	49
37) Ethyl Acetate	7.209	43	2948	1.214	ug/l #	1
38) Carbon Tetrachloride	7.979	117	31317	4.877	ug/l #	17
55) 1,1,2-Trichloroethane	10.773	97	8600	2.432	ug/l #	25
56) Ethyl methacrylate	10.673	69	4278	1.108	ug/l #	1
59) 2-Hexanone	10.950	43	36522	23.566	ug/l #	25
74) N-amyl acetate	12.261	43	582173	76.569	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.697	83	23153	3.098	ug/l #	25
76) 1,2,3-Trichloropropane	12.620	75	254987	50.661	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	254987	126.936	ug/l #	21
83) tert-Butylbenzene	13.214	119	30520	1.264	ug/l	99
85) sec-Butylbenzene	13.391	105	101762	2.650	ug/l #	63
86) p-Isopropyltoluene	13.661	119	31401	1.018	ug/l	92
89) n-Butylbenzene	13.826	91	34992	1.138	ug/l #	80

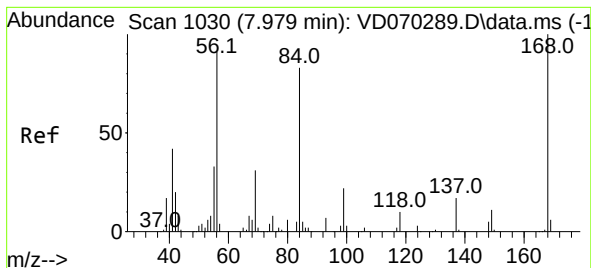
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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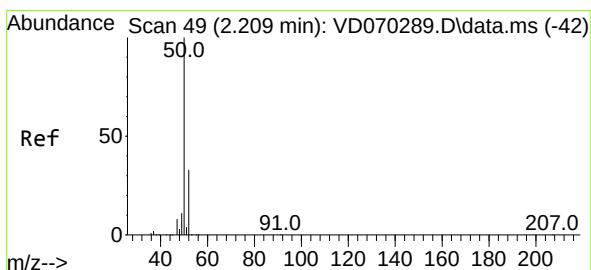
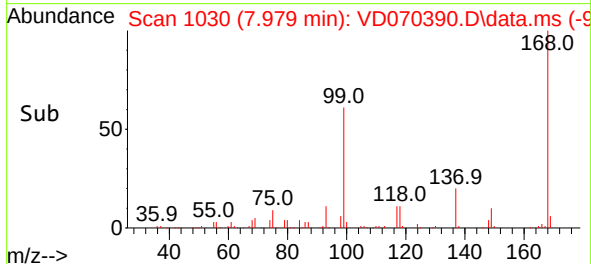
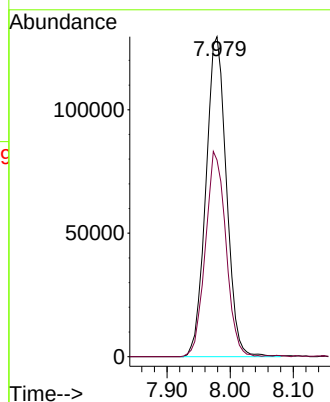
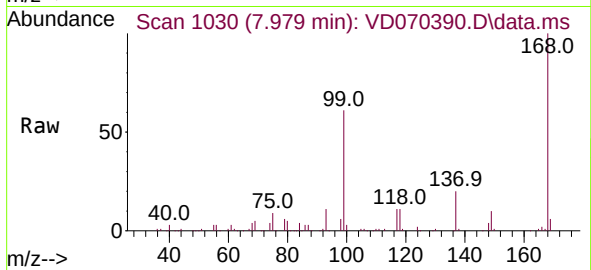




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

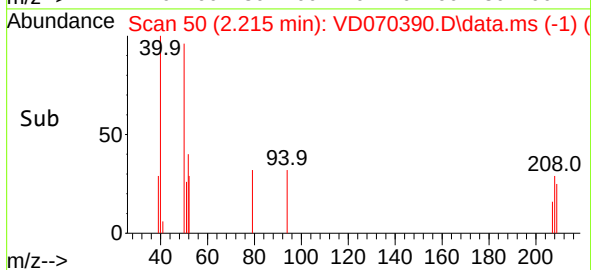
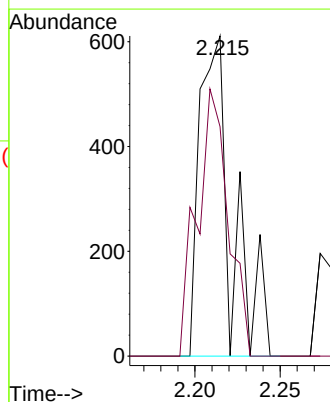
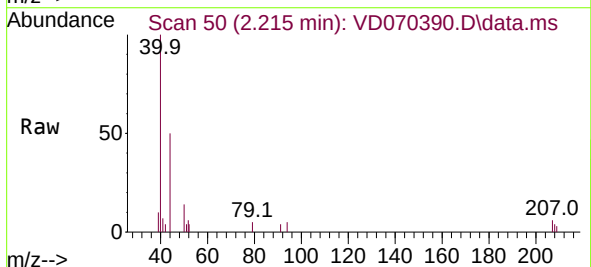
Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE

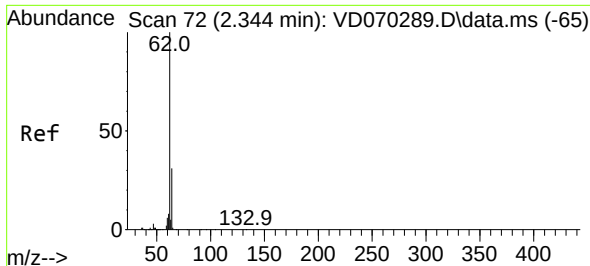
Tgt Ion:168 Resp: 291989
Ion Ratio Lower Upper
168 100
99 61.5 50.8 76.2



#3
Chloromethane
Concen: Below Cal
RT: 2.215 min Scan# 50
Delta R.T. 0.006 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion: 50 Resp: 795
Ion Ratio Lower Upper
50 100
52 71.7 26.2 39.2#

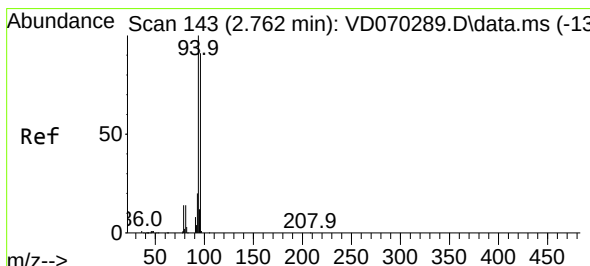
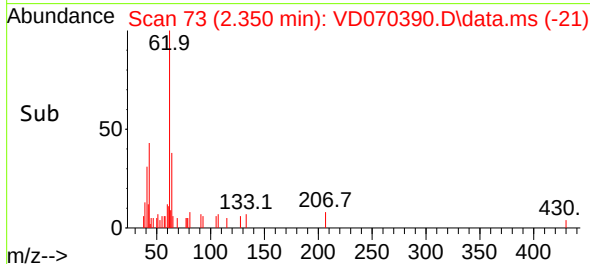
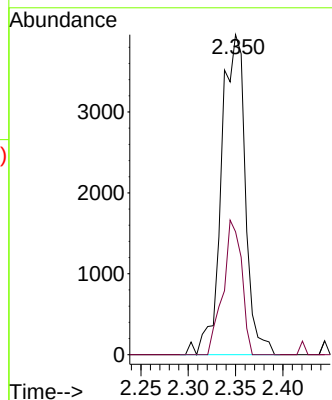
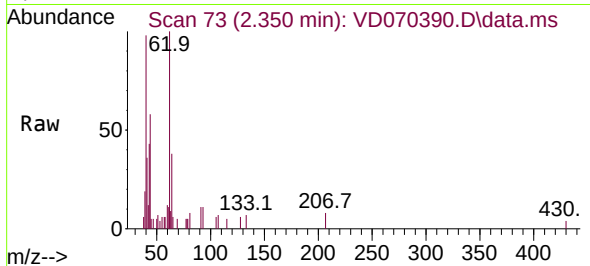




#4
 Vinyl Chloride
 Concen: 1.514 ug/l
 RT: 2.350 min Scan# 73
 Delta R.T. 0.006 min
 Lab File: VD070390.D
 Acq: 20 Sep 2021 18:08

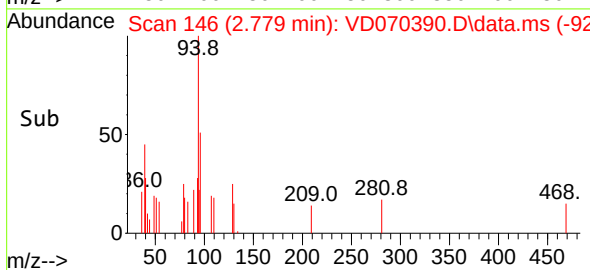
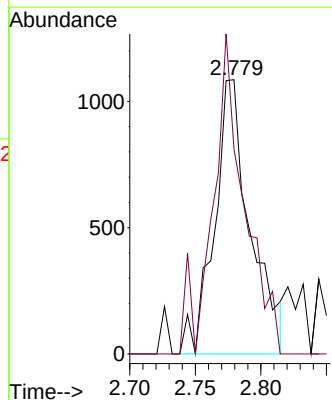
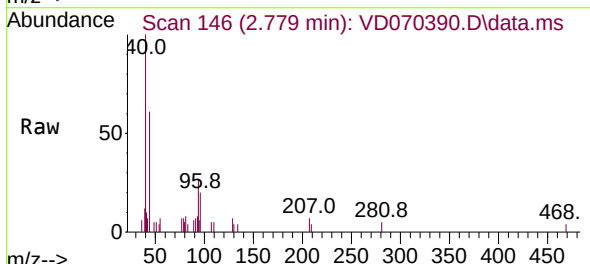
Instrument :
 MSVOA_D
 ClientSampleId :
 NAPL-06-(30-32)RE

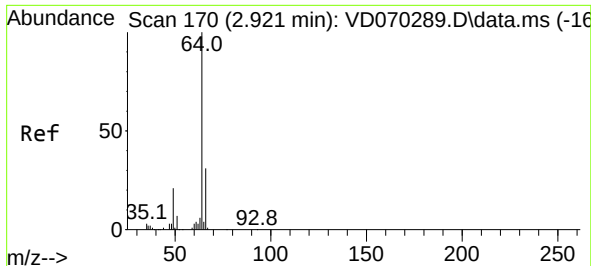
Tgt Ion: 62 Resp: 6954
 Ion Ratio Lower Upper
 62 100
 64 38.4 24.6 36.8#



#5
 Bromomethane
 Concen: Below Cal
 RT: 2.779 min Scan# 146
 Delta R.T. 0.017 min
 Lab File: VD070390.D
 Acq: 20 Sep 2021 18:08

Tgt Ion: 94 Resp: 2067
 Ion Ratio Lower Upper
 94 100
 96 61.3 73.0 109.6#

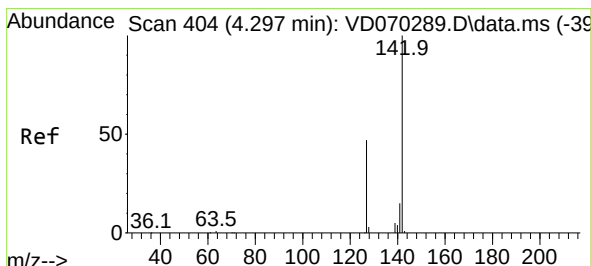
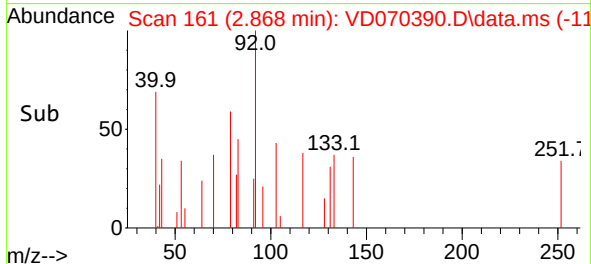
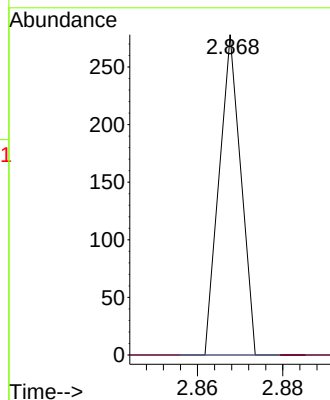
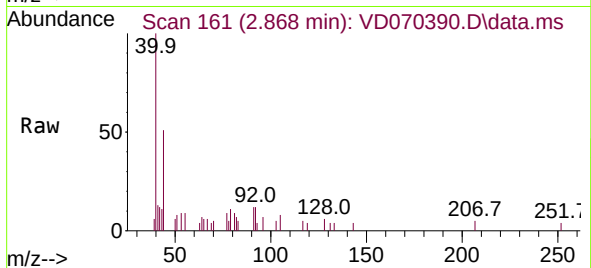




#6
Chloroethane
Concen: Below Cal
RT: 2.868 min Scan# 161
Delta R.T. -0.053 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

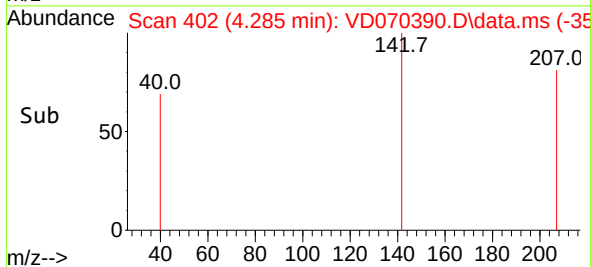
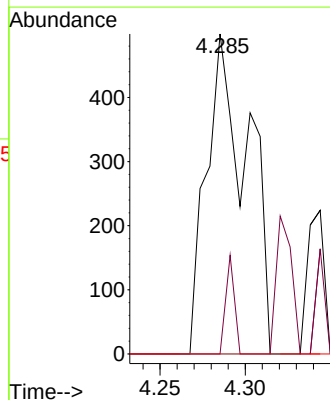
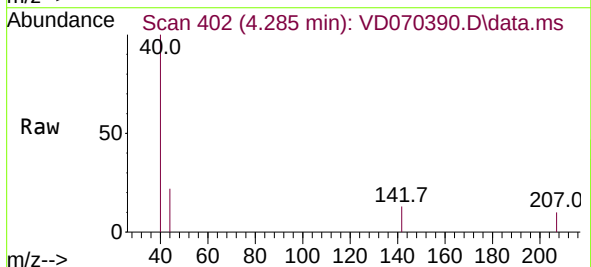
Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE

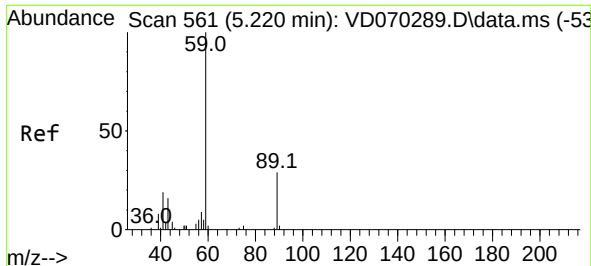
Tgt Ion: 64 Resp: 98
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#



#10
Methyl Iodide
Concen: 1.255 ug/l
RT: 4.285 min Scan# 402
Delta R.T. -0.012 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion:142 Resp: 835
Ion Ratio Lower Upper
142 100
127 6.5 36.9 55.3#
141 0.0 11.8 17.6#

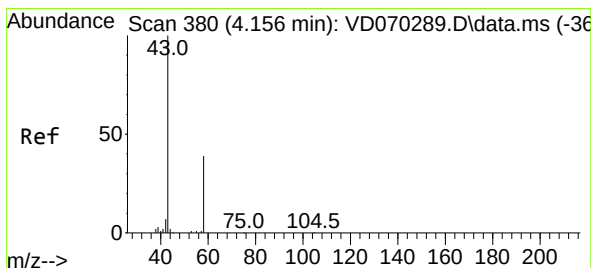
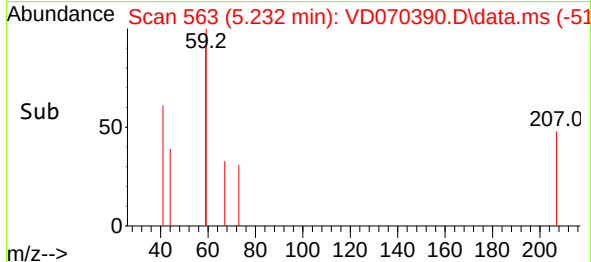
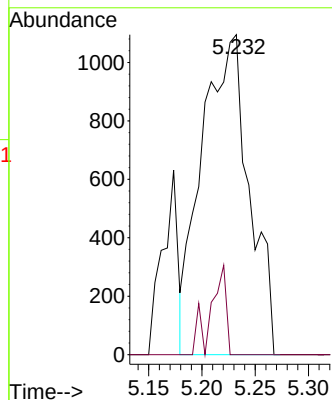
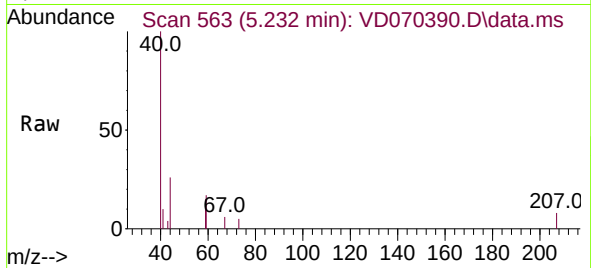




#11
Tert butyl alcohol
Concen: 8.016 ug/l
RT: 5.232 min Scan# 563
Delta R.T. 0.012 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

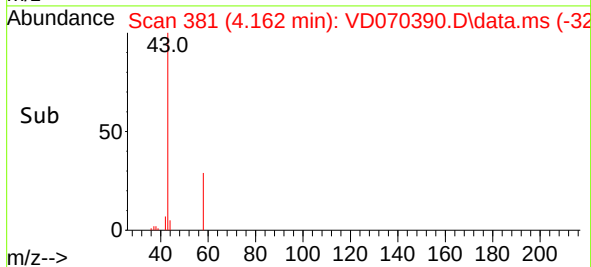
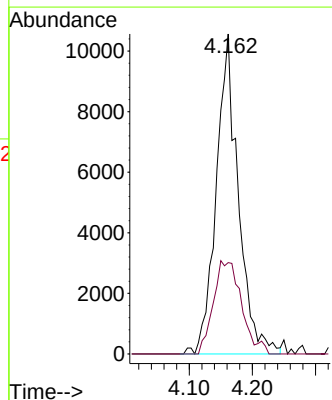
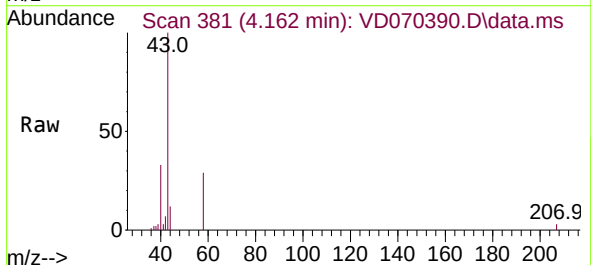
Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE

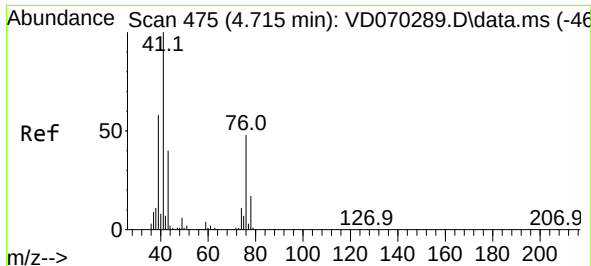
Tgt Ion: 59 Resp: 3398
Ion Ratio Lower Upper
59 100
57 9.0 0.0 0.0#



#16
Acetone
Concen: 38.347 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion: 43 Resp: 25668
Ion Ratio Lower Upper
43 100
58 28.5 30.9 46.3#

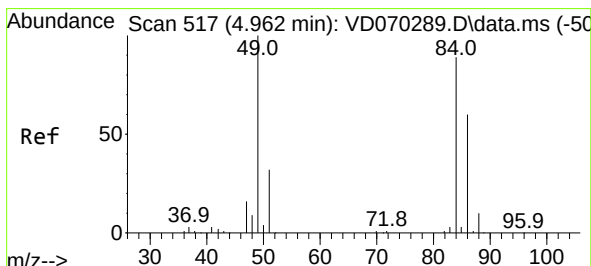
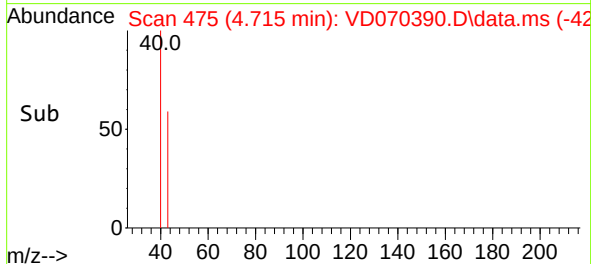
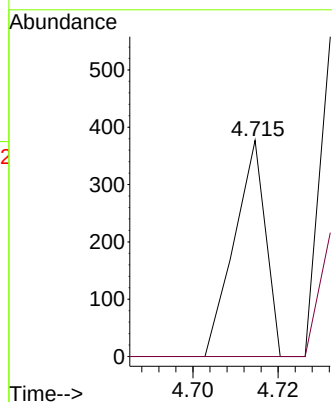
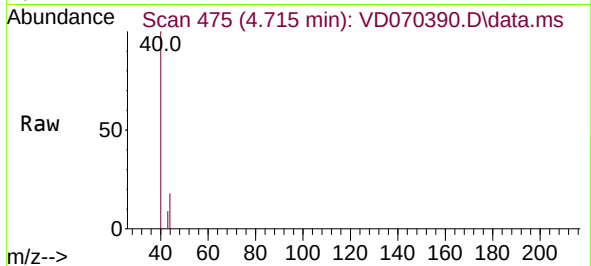




#18
Methyl Acetate
Concen: Below Cal
RT: 4.715 min Scan# 475
Delta R.T. -0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

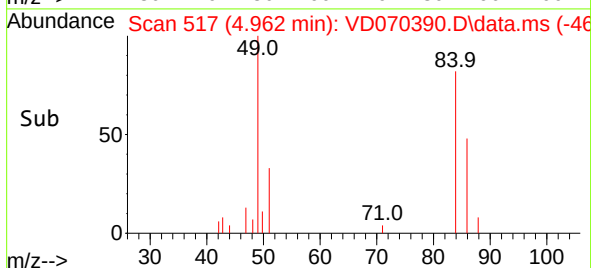
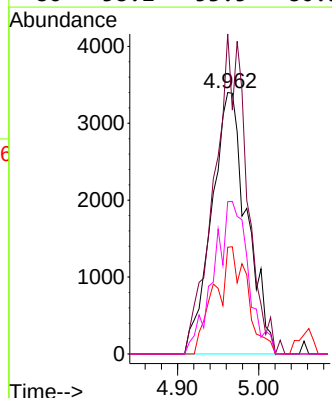
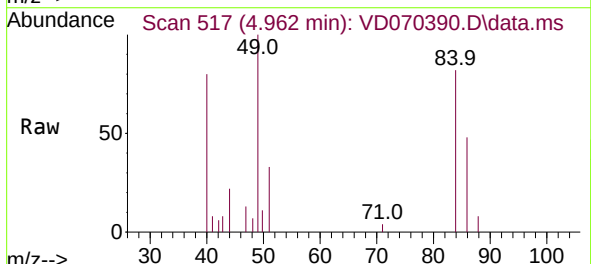
Instrument :
MSVOA_D
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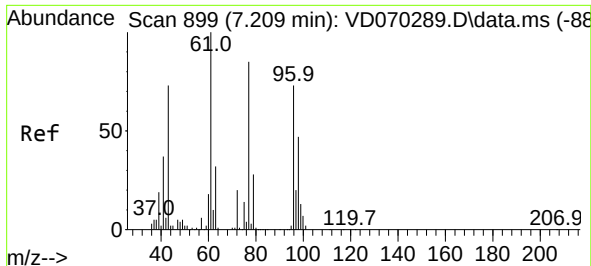
Tgt Ion: 43 Resp: 193
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.962 min Scan# 517
Delta R.T. -0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion: 84 Resp: 10239
Ion Ratio Lower Upper
84 100
49 122.4 89.6 134.4
51 40.8 28.6 43.0
86 58.2 53.5 80.3

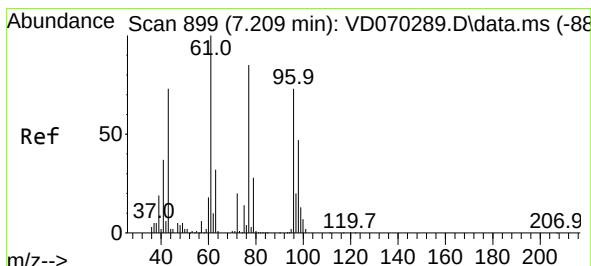
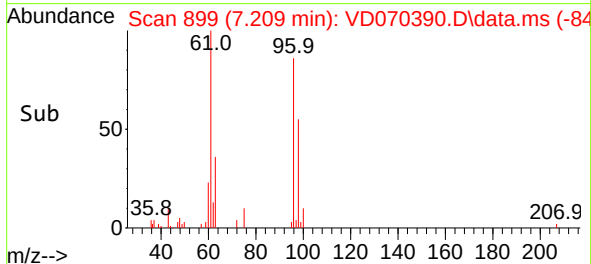
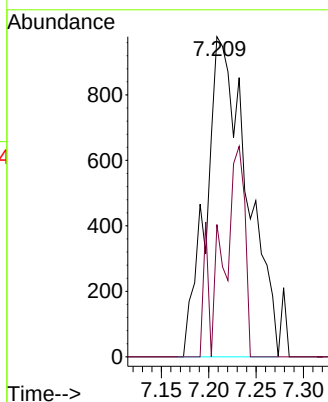
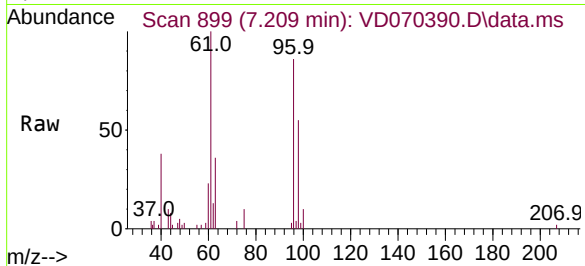




#25
2-Butanone
Concen: 3.309 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

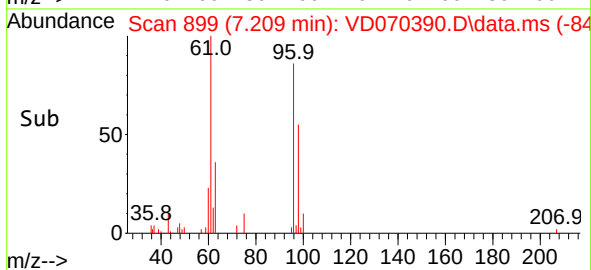
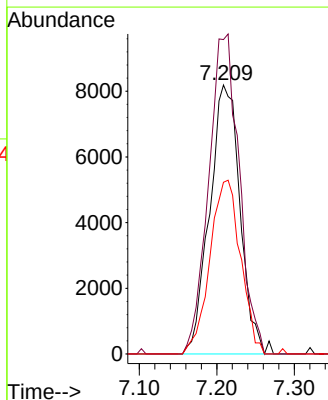
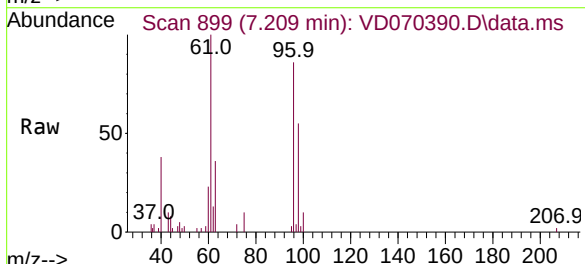
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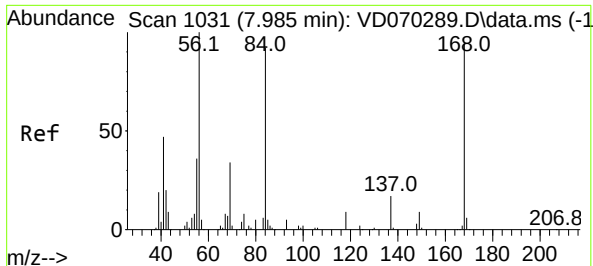
Tgt Ion: 43 Resp: 2948
Ion Ratio Lower Upper
43 100
72 41.3 22.2 33.4#



#27
cis-1,2-Dichloroethene
Concen: 5.150 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

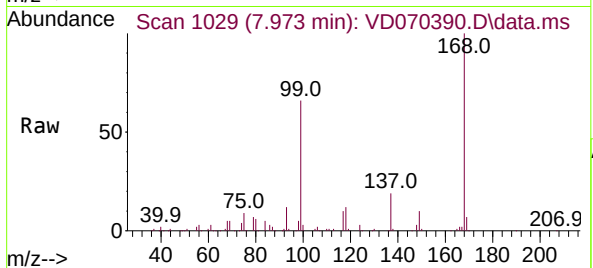
Tgt Ion: 96 Resp: 22387
Ion Ratio Lower Upper
96 100
61 119.1 0.0 277.4
98 65.2 0.0 130.0



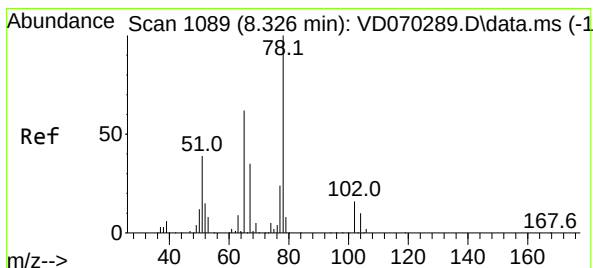
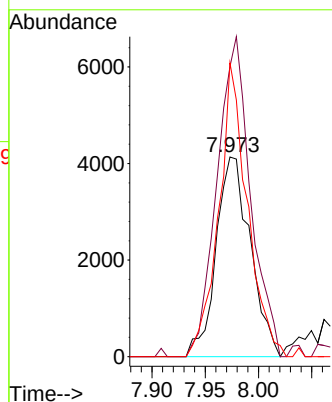
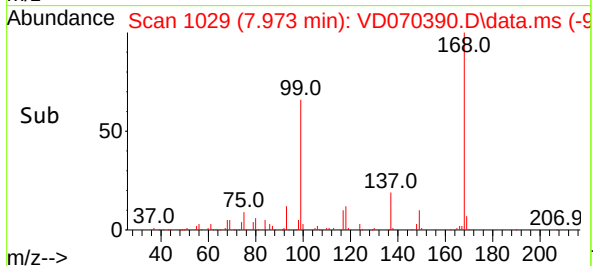


#31
Cyclohexane
Concen: 1.431 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

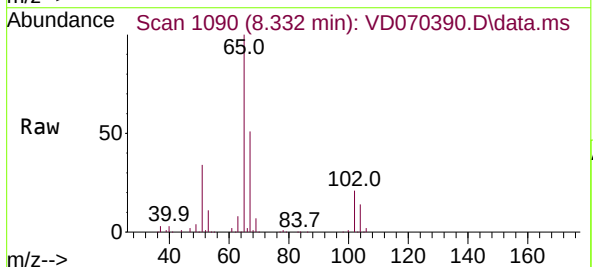
Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE



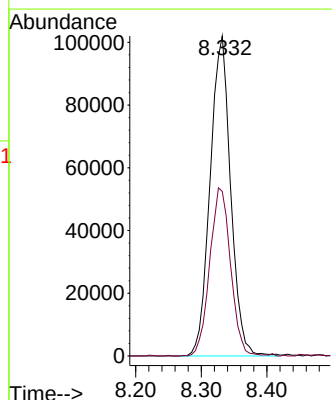
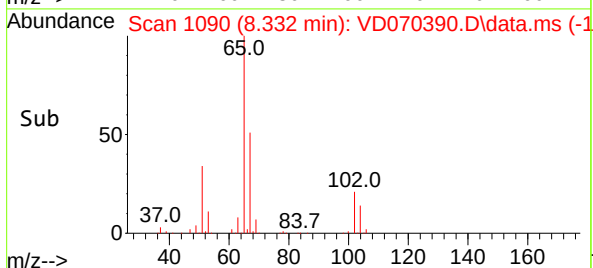
Tgt Ion: 56 Resp: 9243
Ion Ratio Lower Upper
56 100
69 145.3 26.9 40.3#
84 147.1 73.6 110.4#

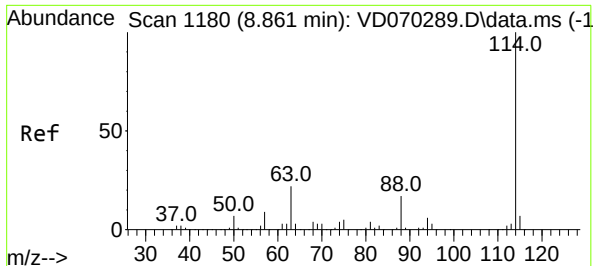


#33
1,2-Dichloroethane-d4
Concen: 59.169 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08



Tgt Ion: 65 Resp: 221837
Ion Ratio Lower Upper
65 100
67 53.2 0.0 111.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

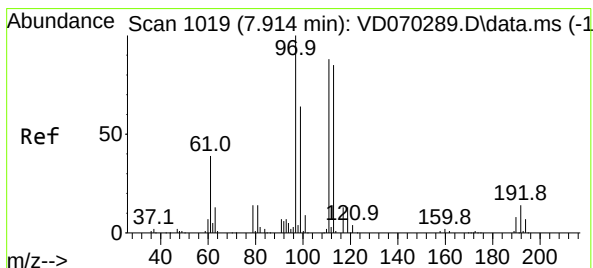
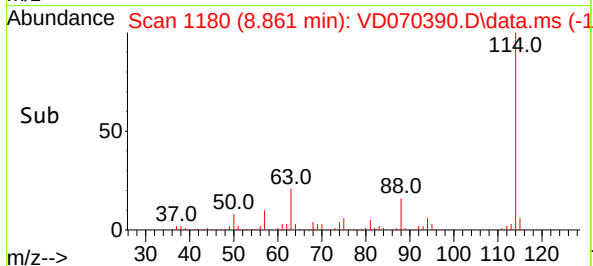
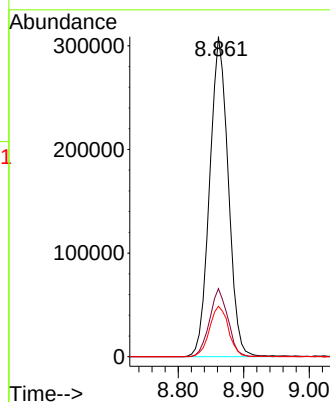
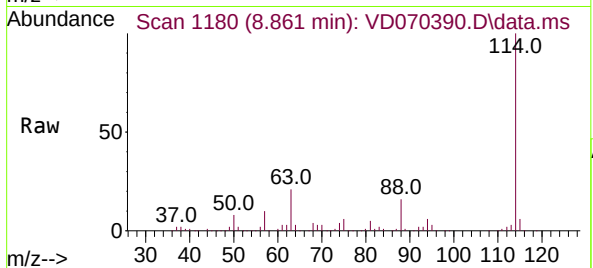
Delta R.T. 0.000 min

Lab File: VD070390.D

Acq: 20 Sep 2021 18:08

Tgt Ion:	114	Resp:	607417
Ion Ratio	Lower	Upper	
114	100		
63	21.3	0.0	43.4
88	15.8	0.0	33.4

Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE



#35

Dibromofluoromethane

Concen: 49.541 ug/l

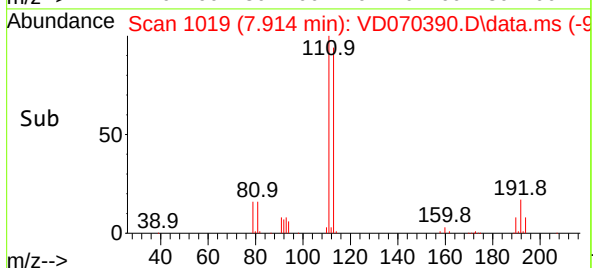
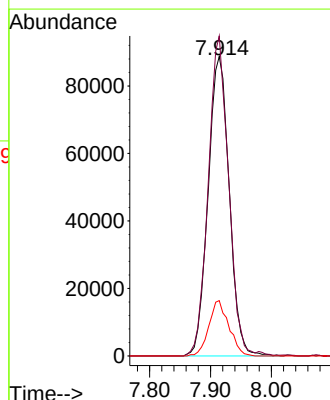
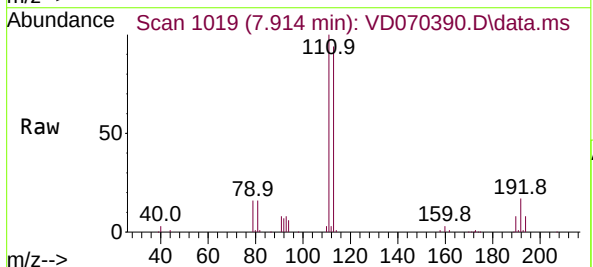
RT: 7.914 min Scan# 1019

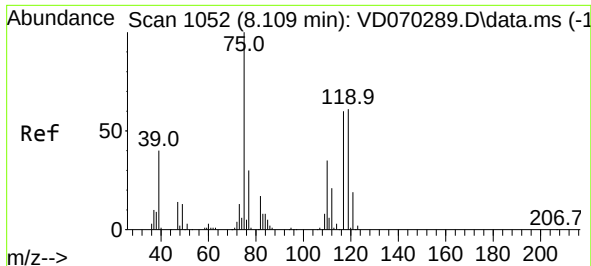
Delta R.T. 0.000 min

Lab File: VD070390.D

Acq: 20 Sep 2021 18:08

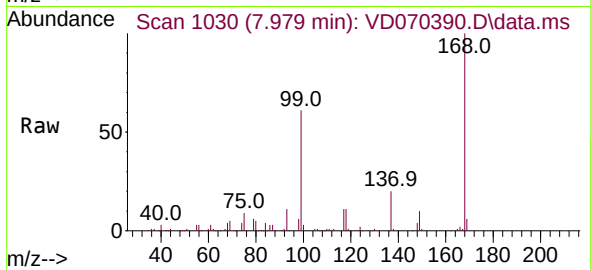
Tgt Ion:	113	Resp:	214200
Ion Ratio	Lower	Upper	
113	100		
111	103.1	81.4	122.2
192	17.5	13.0	19.6



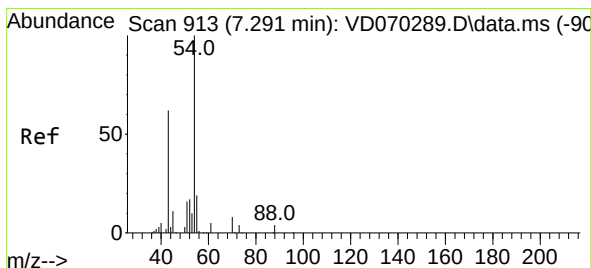
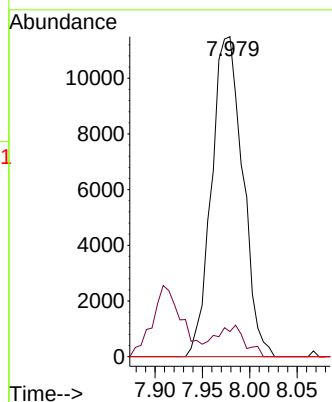
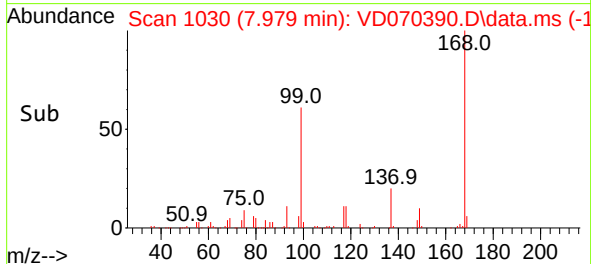


#36
1,1-Dichloropropene
Concen: 4.052 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

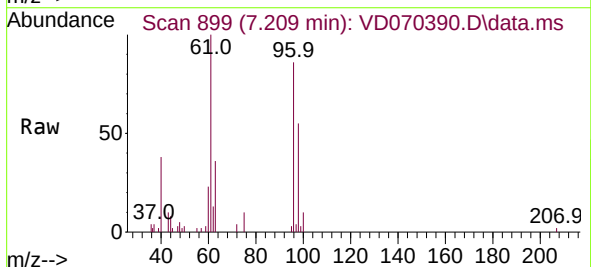
Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE



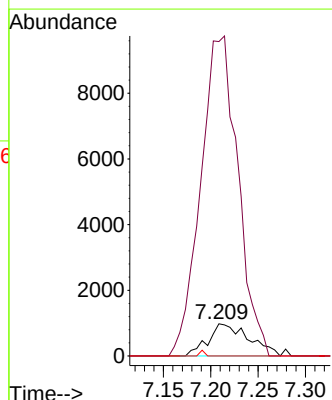
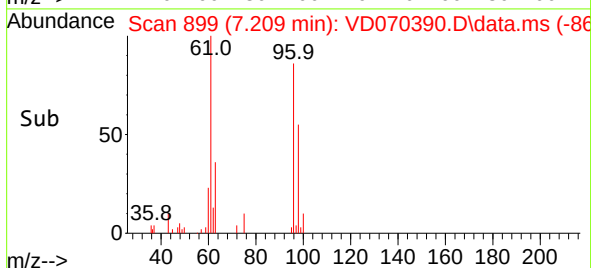
Tgt Ion: 75 Resp: 26305
Ion Ratio Lower Upper
75 100
110 9.3 17.9 53.7#
77 0.0 25.3 37.9#

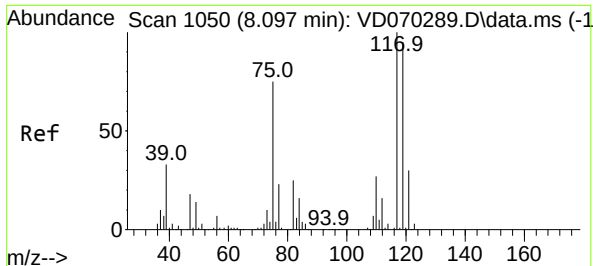


#37
Ethyl Acetate
Concen: 1.214 ug/l
RT: 7.209 min Scan# 899
Delta R.T. -0.082 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08



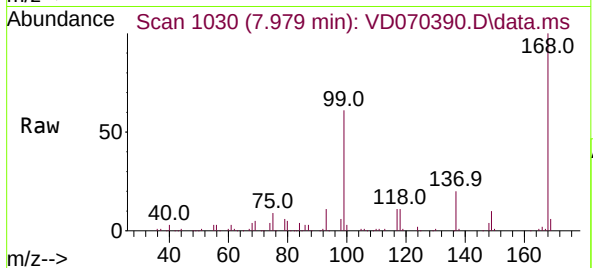
Tgt Ion: 43 Resp: 2948
Ion Ratio Lower Upper
43 100
61 904.8 13.0 19.6#
70 0.0 9.8 14.6#



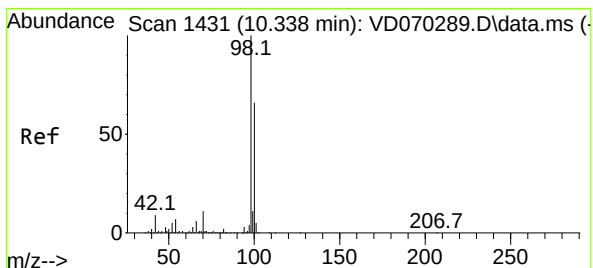
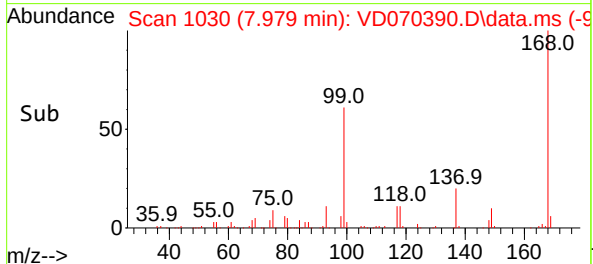
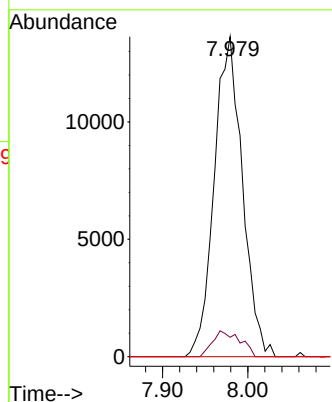


#38
Carbon Tetrachloride
Concen: 4.877 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE

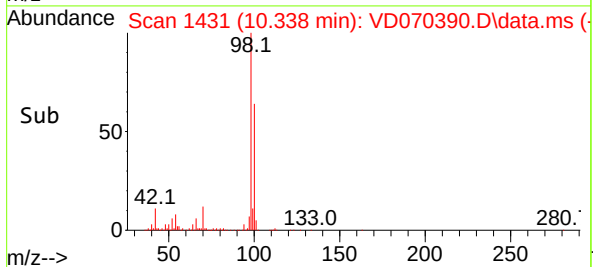
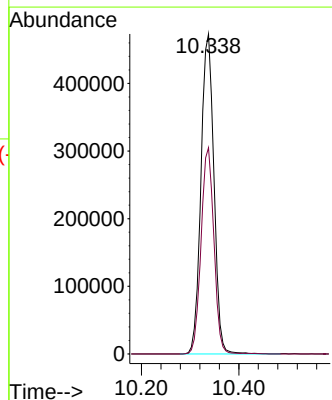
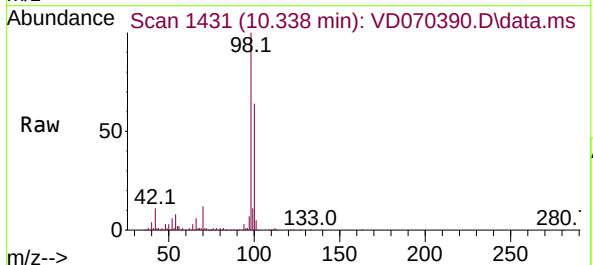


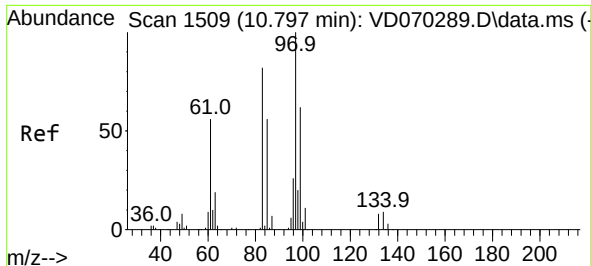
Tgt Ion:117 Resp: 31317
Ion Ratio Lower Upper
117 100
119 6.1 76.1 114.1#
121 0.0 23.8 35.6#



#50
Toluene-d8
Concen: 55.658 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion: 98 Resp: 873731
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0

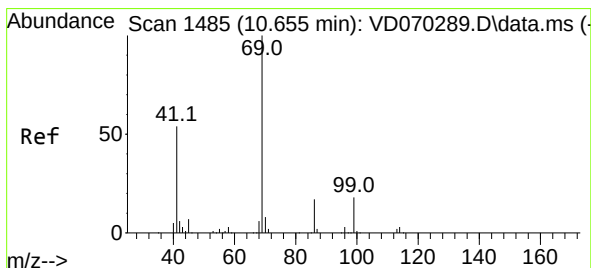
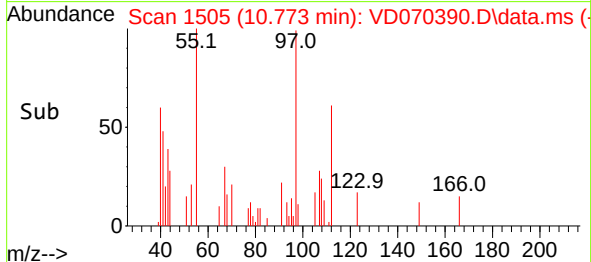
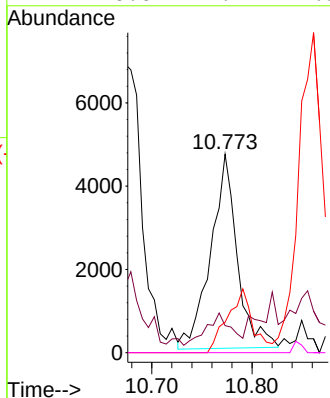
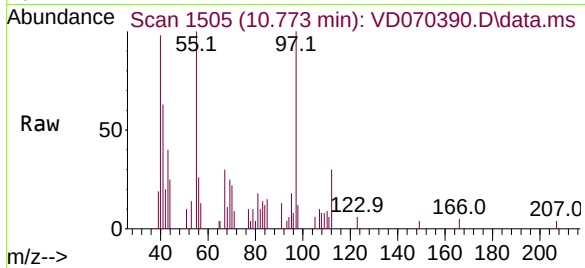




#55
1,1,2-Trichloroethane
Concen: 2.432 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.024 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

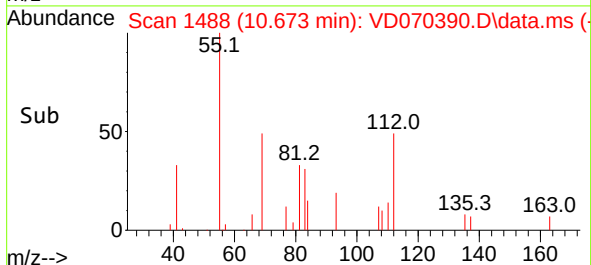
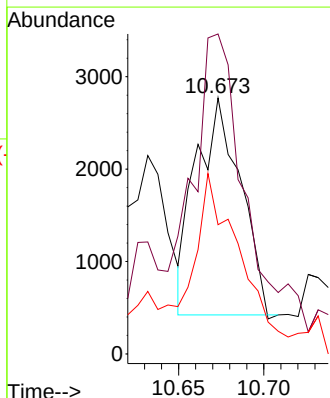
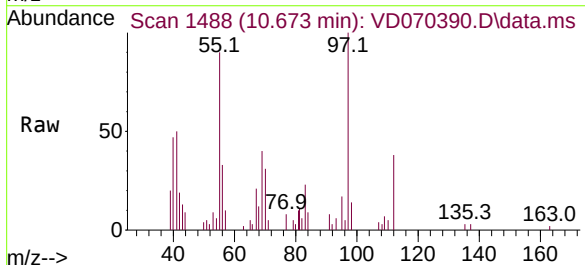
Instrument :
MSVOA_D
ClientSampleId :
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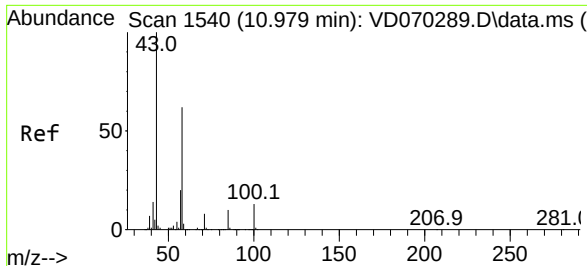
Tgt Ion:	97	Resp:	8600
Ion	Ratio	Lower	Upper
97	100		
83	6.8	65.3	97.9#
85	15.9	44.8	67.2#
99	0.0	49.7	74.5#



#56
Ethyl methacrylate
Concen: 1.108 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion:	69	Resp:	4278
Ion	Ratio	Lower	Upper
69	100		
41	158.1	43.6	65.4#
39	71.2	18.6	28.0#

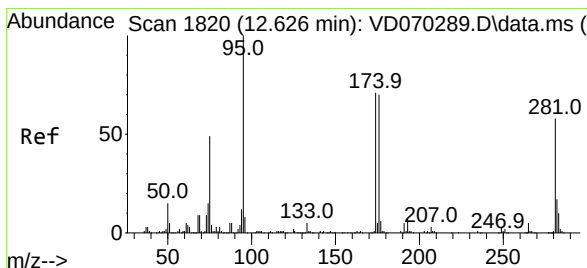
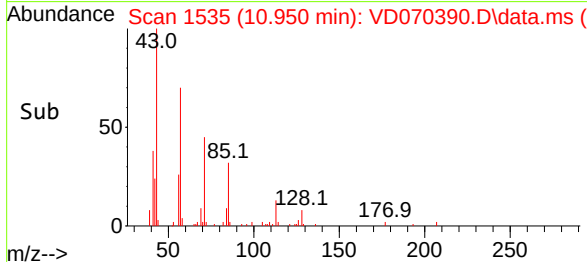
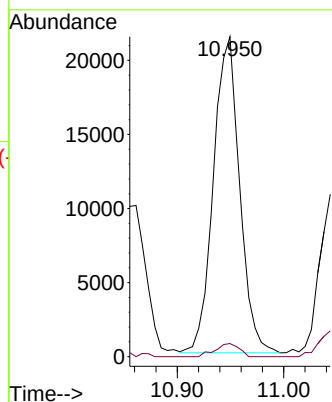
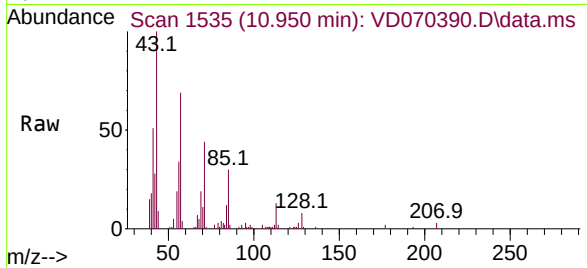




#59
2-Hexanone
Concen: 23.566 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.029 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

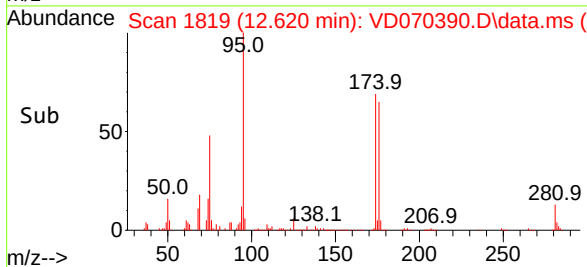
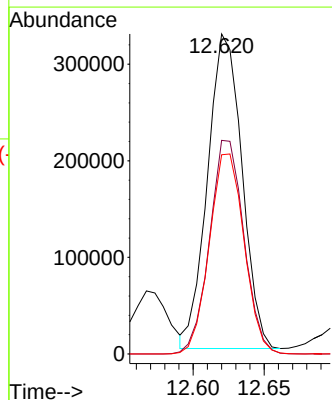
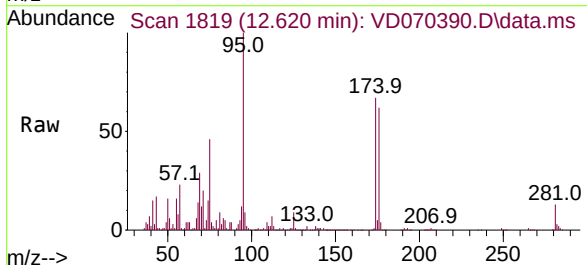
Instrument :
MSVOA_D
ClientSampleId :
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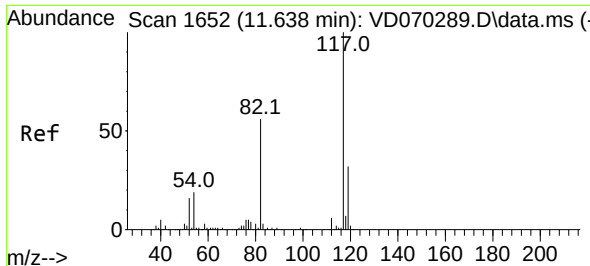
Tgt Ion: 43 Resp: 36522
Ion Ratio Lower Upper
43 100
58 3.8 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 100.181 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion: 95 Resp: 549624
Ion Ratio Lower Upper
95 100
174 67.7 0.0 140.6
176 64.2 0.0 137.4

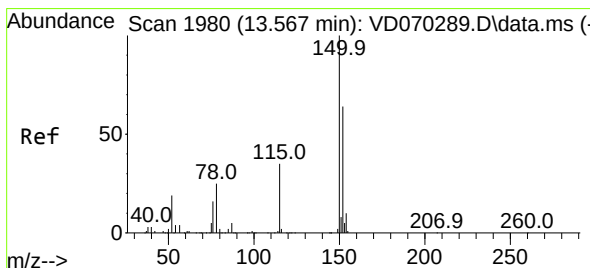
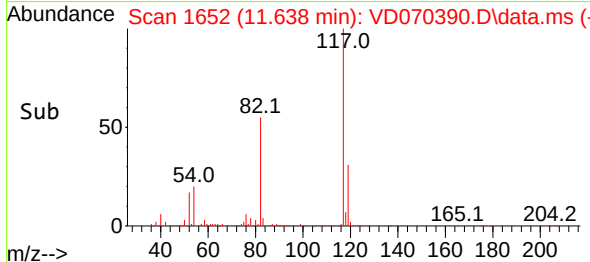
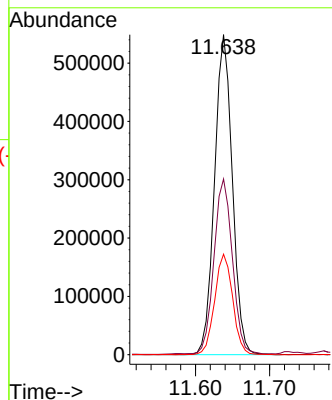
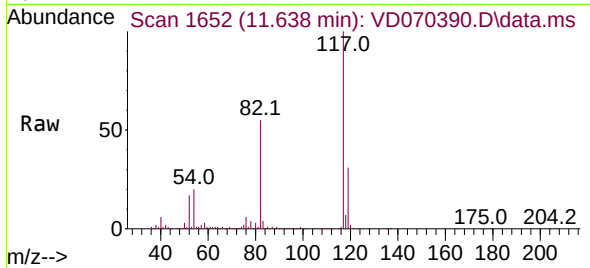




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

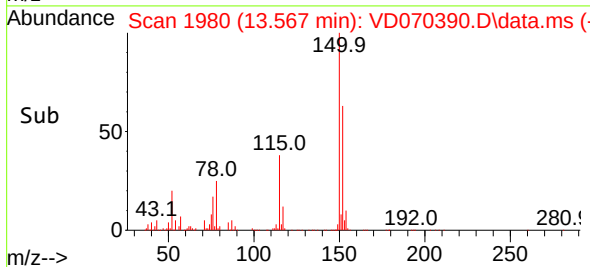
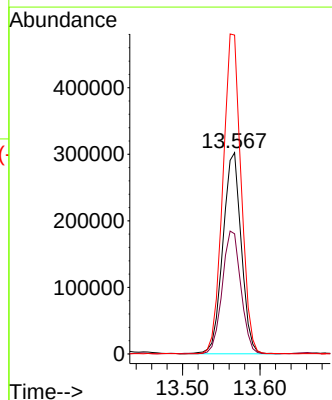
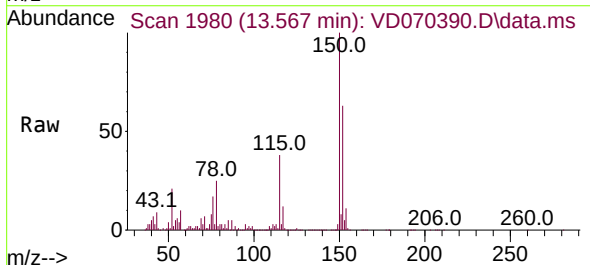
Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE

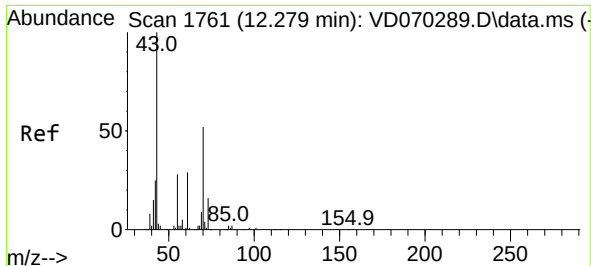
Tgt Ion:117 Resp: 915414
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 31.4 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion:152 Resp: 497591
Ion Ratio Lower Upper
152 100
115 62.0 32.1 96.3
150 157.8 0.0 350.6

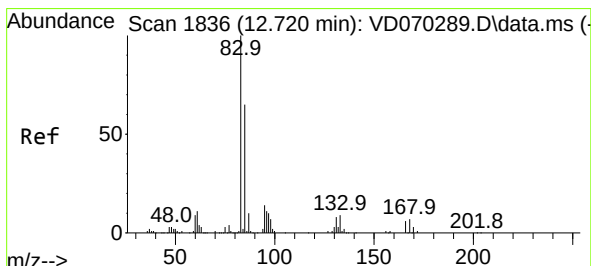
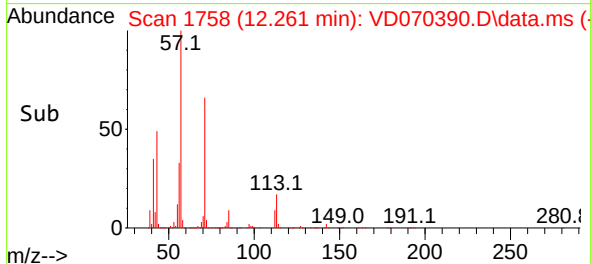
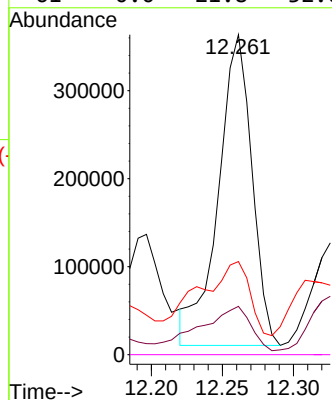
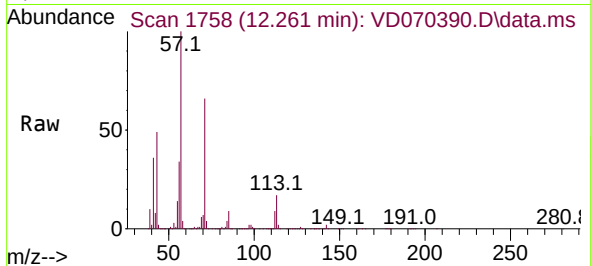




#74
N-amy1 acetate
Concen: 76.569 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

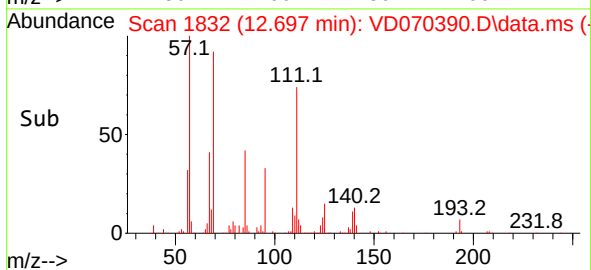
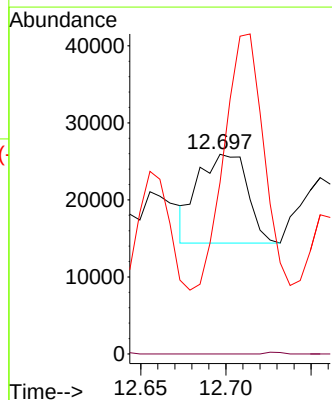
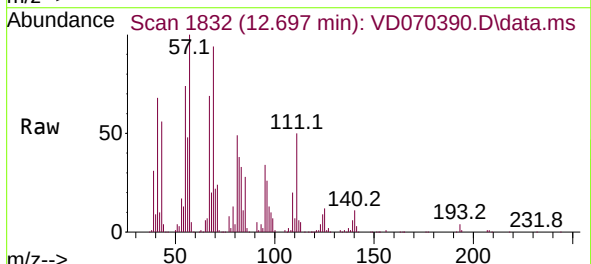
Instrument :
MSVOA_D
ClientSampleId :
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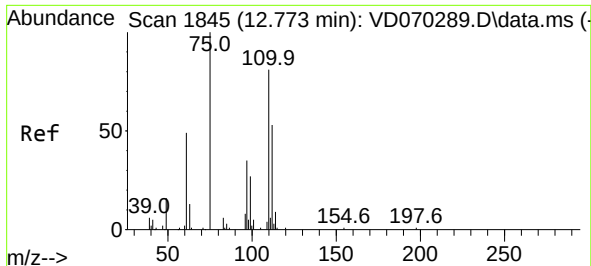
Tgt Ion:	43	Resp:	582173
Ion Ratio	Lower	Upper	
43	100		
70	21.3	41.4	62.0#
55	35.7	22.8	34.2#
61	0.0	21.8	32.6#



#75
1,1,2,2-Tetrachloroethane
Concen: 3.098 ug/l
RT: 12.697 min Scan# 1832
Delta R.T. -0.024 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion:	83	Resp:	23153
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.8	14.4#
85	0.0	32.1	96.3#

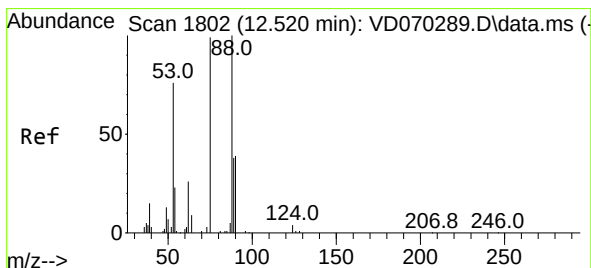
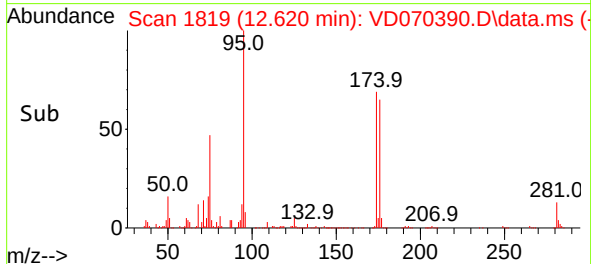
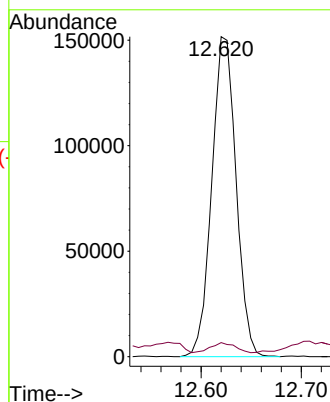
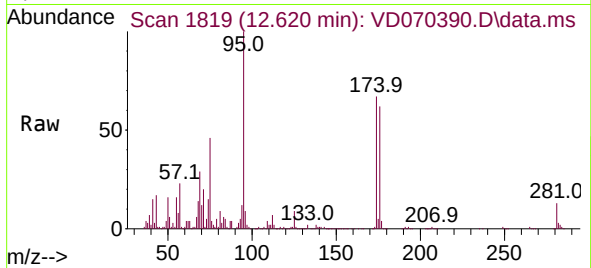




#76
1,2,3-Trichloropropane
Concen: 50.661 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

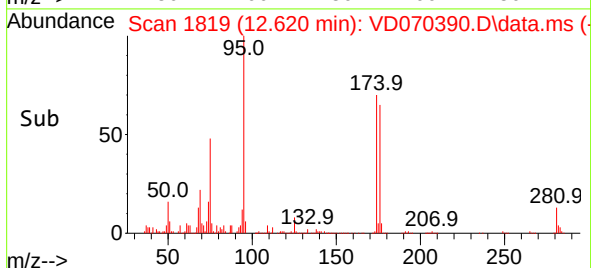
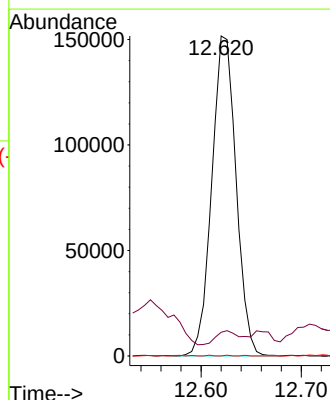
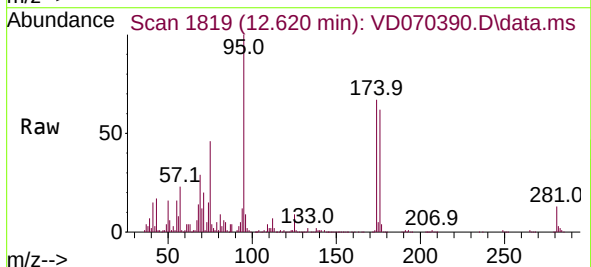
Instrument :
MSVOA_D
ClientSampleId :
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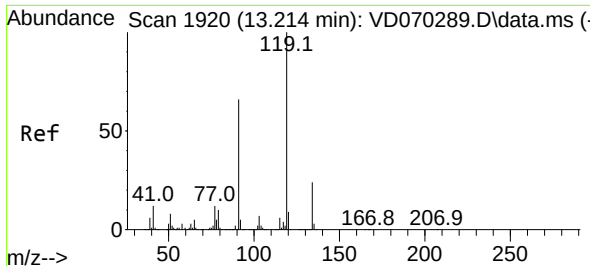
Tgt Ion: 75 Resp: 254987
Ion Ratio Lower Upper
75 100
77 3.0 174.9 524.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 126.936 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion: 75 Resp: 254987
Ion Ratio Lower Upper
75 100
53 4.5 64.2 96.2#
89 0.0 35.6 53.4#

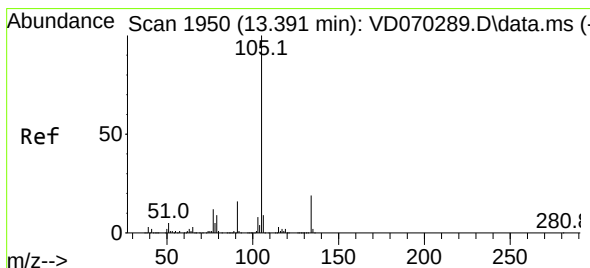
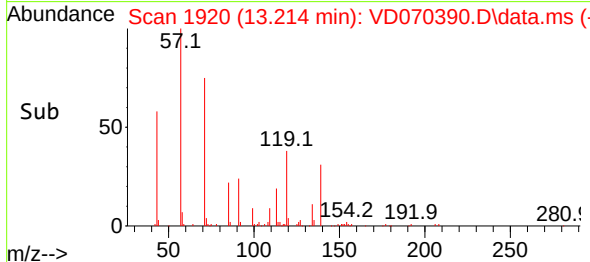
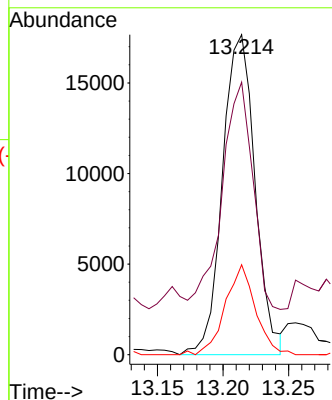
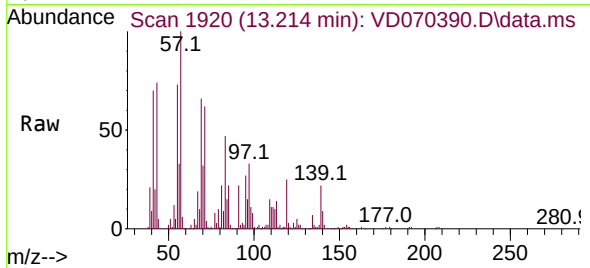




#83
tert-Butylbenzene
Concen: 1.264 ug/l
RT: 13.214 min Scan# 1920
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

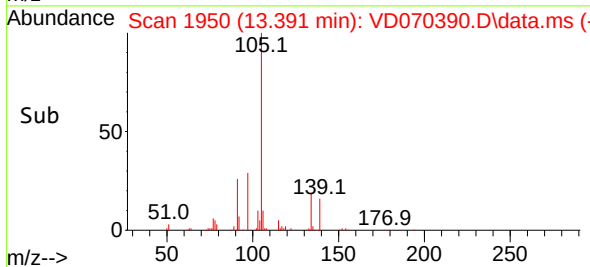
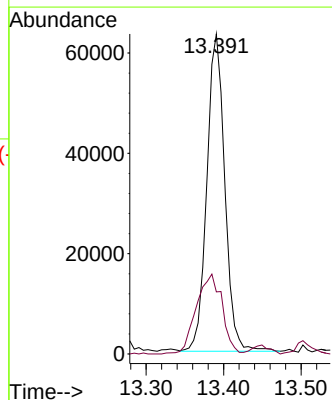
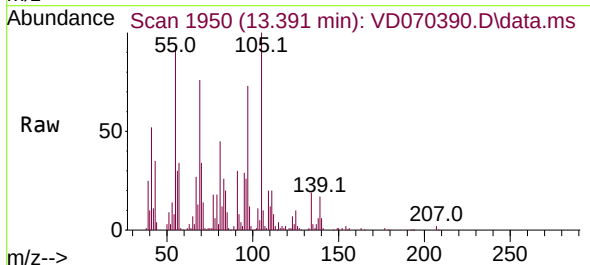
Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE

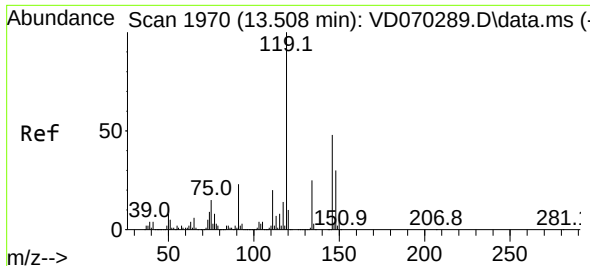
Tgt Ion:119 Resp: 30520
Ion Ratio Lower Upper
119 100
91 66.8 33.7 101.0
134 26.1 13.2 39.5



#85
sec-Butylbenzene
Concen: 2.650 ug/l
RT: 13.391 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion:105 Resp: 101762
Ion Ratio Lower Upper
105 100
134 36.2 9.8 29.3#

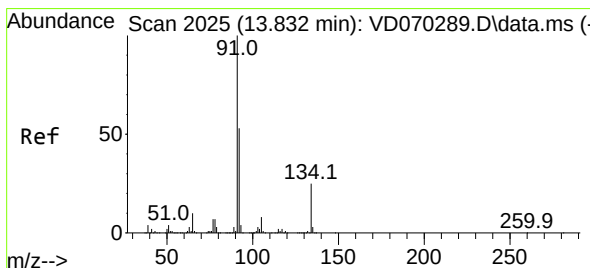
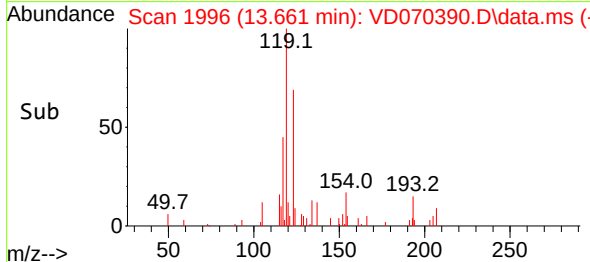
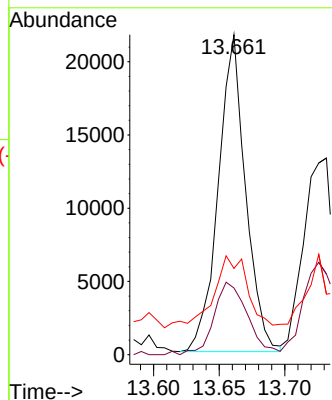
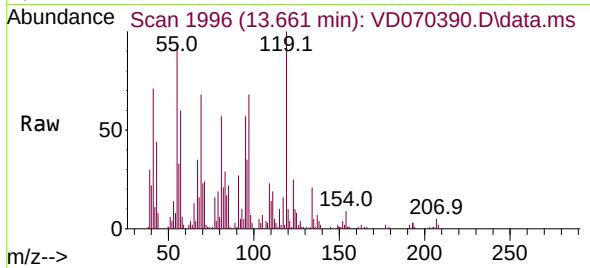




#86
p-Isopropyltoluene
Concen: 1.018 ug/l
RT: 13.661 min Scan# 1996
Delta R.T. 0.153 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Instrument :
MSVOA_D
ClientSampleId :
NAPL-06-(30-32)RE

Tgt Ion:119 Resp: 31401
Ion Ratio Lower Upper
119 100
134 28.1 12.7 38.0
91 28.3 11.8 35.3



#89
n-Butylbenzene
Concen: 1.138 ug/l
RT: 13.826 min Scan# 2024
Delta R.T. -0.006 min
Lab File: VD070390.D
Acq: 20 Sep 2021 18:08

Tgt Ion: 91 Resp: 34992
Ion Ratio Lower Upper
91 100
92 48.1 26.8 80.4
134 0.0 12.1 36.3#

