

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091721\
 Data File : VN068545.D
 Acq On : 18 Sep 2021 3:06
 Operator : JC/MD
 Sample : M3770-02
 Misc : 6.87g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 NAPL-05-(20-22)

Quant Time: Sep 20 06:00:27 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090721W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 17 11:02:11 2021
 Response via : Initial Calibration

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

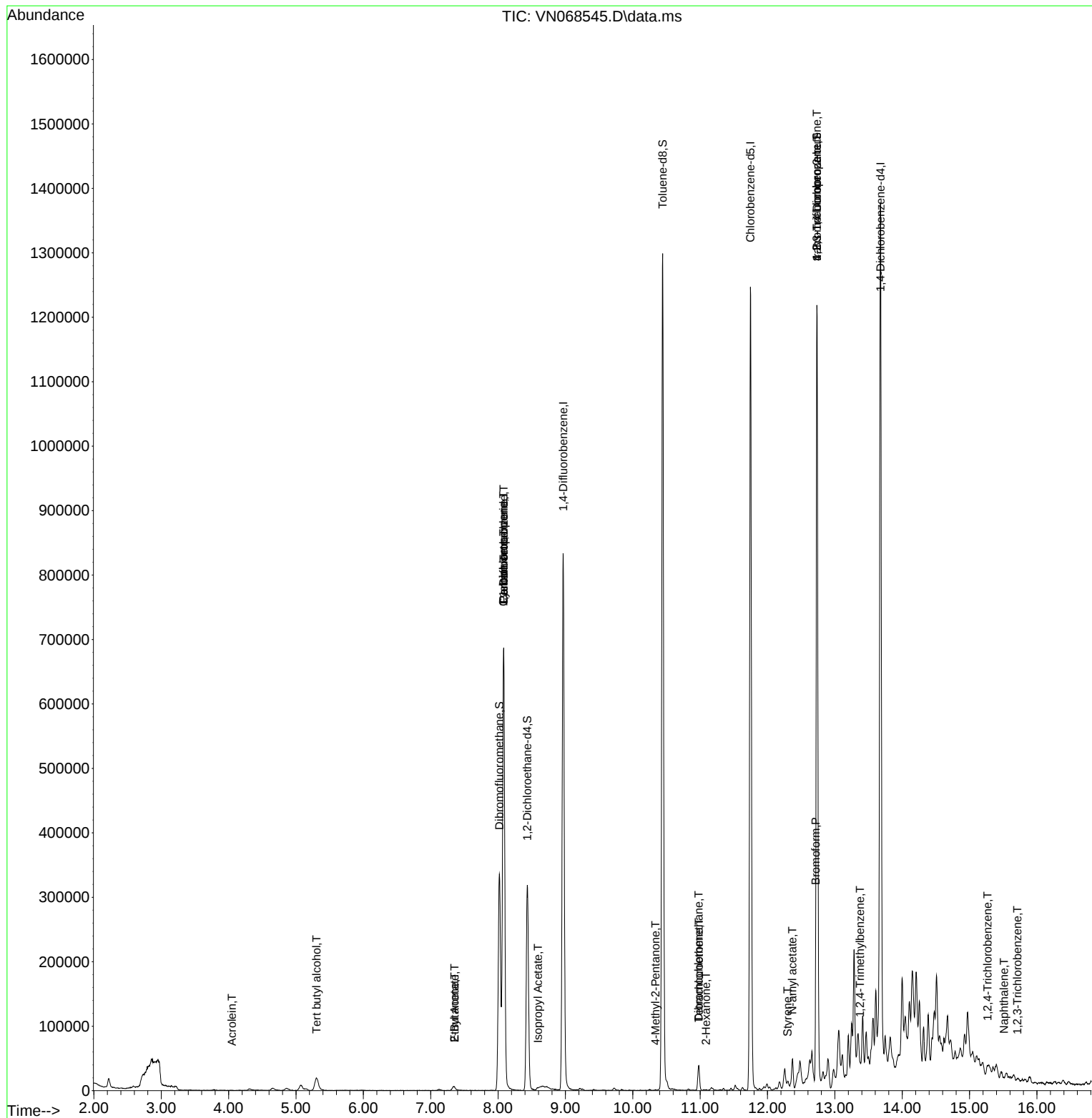
Internal Standards						
1) Pentafluorobenzene	8.083	168	610825	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	827062	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	806158	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	406214	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	270728	48.318	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.640%		
35) Dibromofluoromethane	8.018	113	248477	49.812	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	99.620%		
50) Toluene-d8	10.443	98	970602	47.625	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	95.240%		
62) 4-Bromofluorobenzene	12.733	95	348554	51.545	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	103.100%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.290	50	370	Below Cal	#	42
5) Bromomethane	2.805	94	1881	Below Cal		94
11) Tert butyl alcohol	5.304	59	18274	11.187	ug/l #	84
13) Acrolein	4.046	56	97	0.233	ug/l #	14
16) Acetone	4.304	43	2800	Below Cal	#	85
18) Methyl Acetate	4.859	43	8094	Below Cal	#	65
20) Methylene Chloride	5.066	84	3729	Below Cal	#	92
25) 2-Butanone	7.353	43	1478	0.543	ug/l #	84
31) Cyclohexane	8.080	56	9656	1.137	ug/l #	22
36) 1,1-Dichloropropene	8.080	75	33795	4.901	ug/l #	46
37) Ethyl Acetate	7.353	43	1478	0.282	ug/l #	66
38) Carbon Tetrachloride	8.083	117	52817	6.394	ug/l #	16
43) Isopropyl Acetate	8.592	43	2529	0.273	ug/l #	51
51) 4-Methyl-2-Pentanone	10.338	43	1099	0.208	ug/l #	33
59) 2-Hexanone	11.087	43	774	0.219	ug/l	62
60) Dibromochloromethane	10.977	129	8011	2.852	ug/l #	11
64) Tetrachloroethene	10.982	164	9149	1.280	ug/l	96
70) Styrene	12.299	104	963	1.803	ug/l #	63
71) Bromoform	12.715	173	162	2.551	ug/l #	29
74) N-amyl acetate	12.369	43	8491	1.317	ug/l #	63
76) 1,2,3-Trichloropropane	12.733	75	172050	30.369	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	172050	93.866	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.374	105	7146	0.317	ug/l	93
93) 1,2,4-Trichlorobenzene	15.268	180	1352	3.127	ug/l	90
95) Naphthalene	15.512	128	3984	3.727	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.710	180	1373	3.155	ug/l #	25

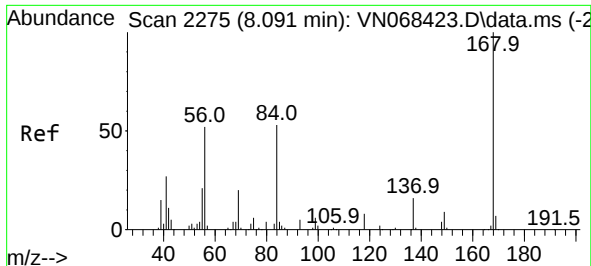
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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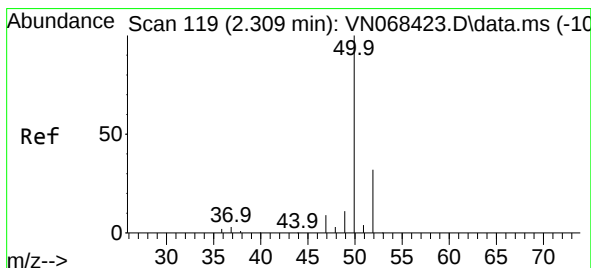
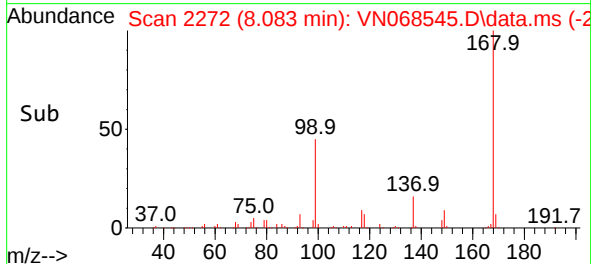
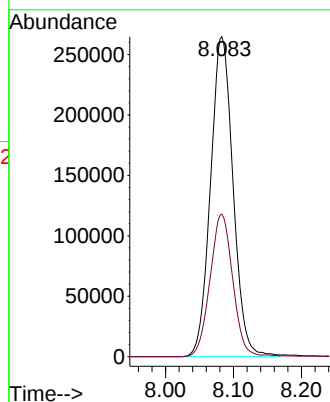
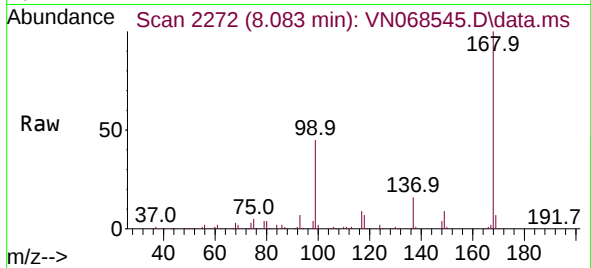




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.008 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

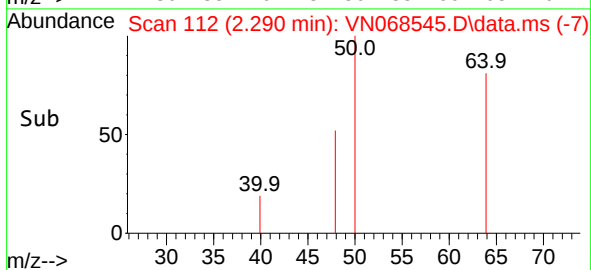
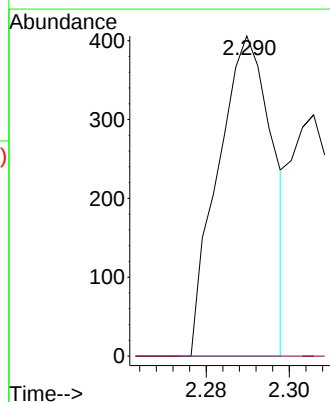
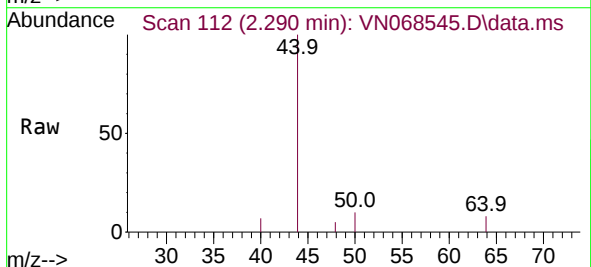
Instrument :
MSVOA_N
ClientSampleId :
NAPL-05-(20-22)

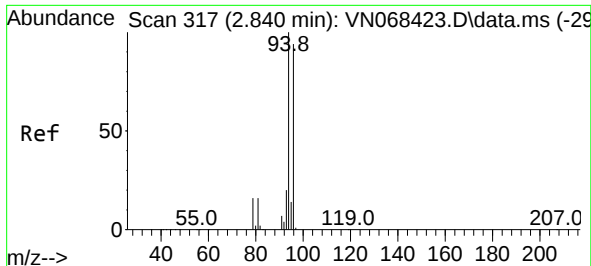
Tgt Ion:168 Resp: 610825
Ion Ratio Lower Upper
168 100
99 44.5 38.2 57.4



#3
Chloromethane
Concen: Below Cal
RT: 2.290 min Scan# 112
Delta R.T. -0.019 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 50 Resp: 370
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

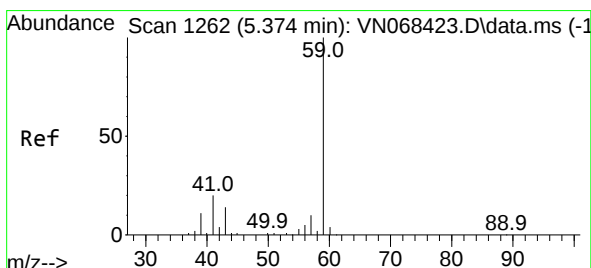
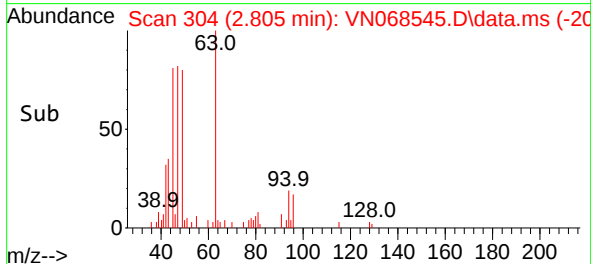
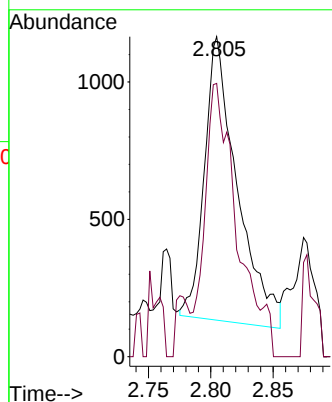
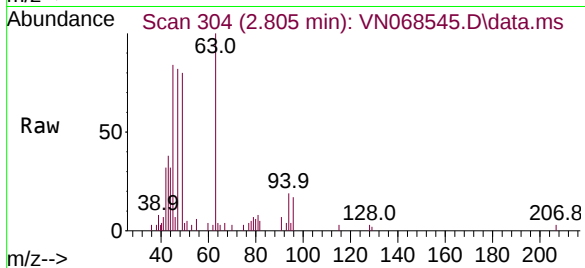




#5
Bromomethane
Concen: Below Cal
RT: 2.805 min Scan# 304
Delta R.T. -0.035 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

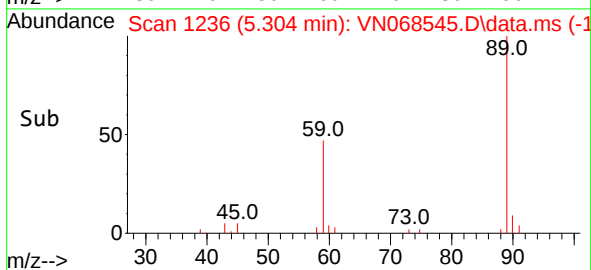
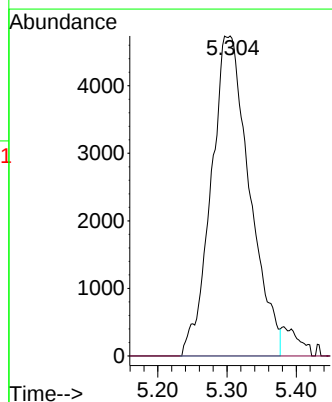
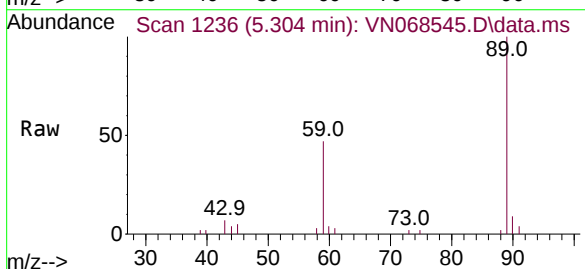
Instrument :
MSVOA_N
ClientSampleId :
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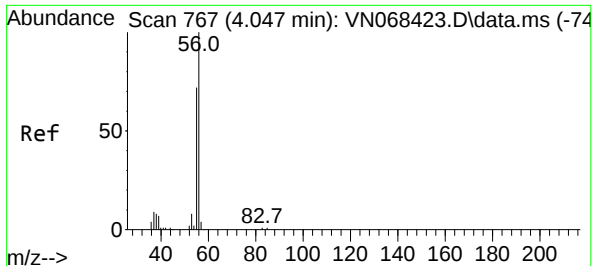
Tgt Ion: 94 Resp: 1881
Ion Ratio Lower Upper
94 100
96 100.0 75.4 113.0



#11
Tert butyl alcohol
Concen: 11.187 ug/l
RT: 5.304 min Scan# 1236
Delta R.T. -0.070 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 59 Resp: 18274
Ion Ratio Lower Upper
59 100
57 0.0 4.3 6.5#

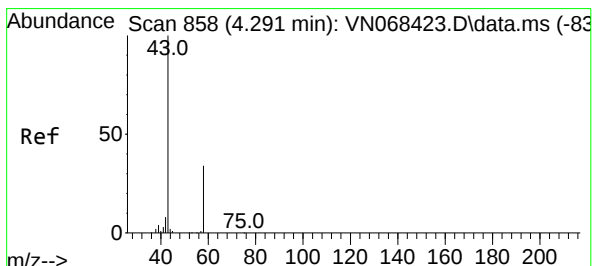
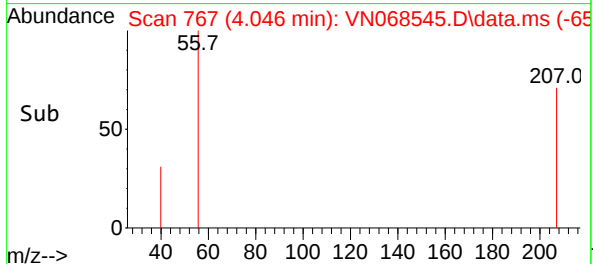
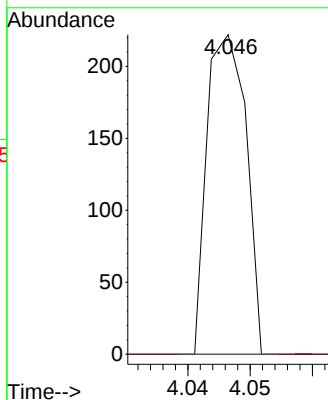
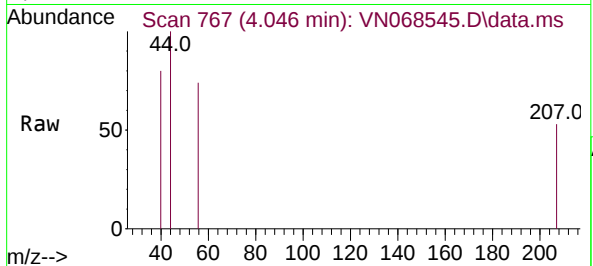




#13
Acrolein
Concen: 0.233 ug/l
RT: 4.046 min Scan# 767
Delta R.T. -0.001 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

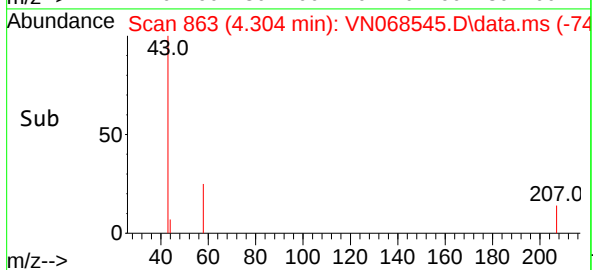
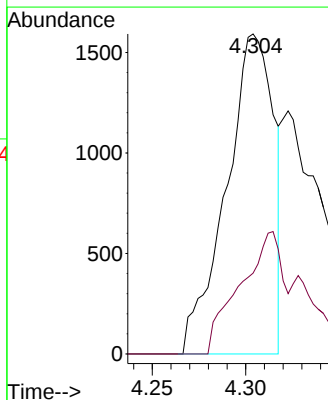
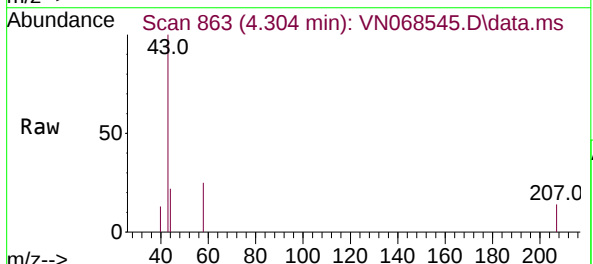
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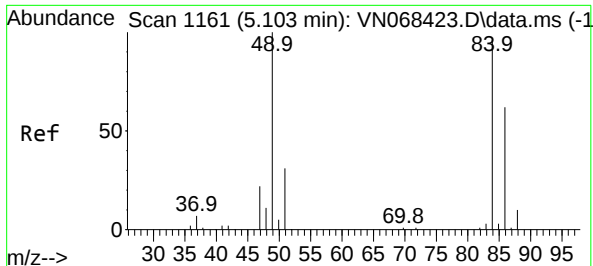
Tgt Ion: 56 Resp: 97
Ion Ratio Lower Upper
56 100
55 0.0 56.8 85.2#



#16
Acetone
Concen: Below Cal
RT: 4.304 min Scan# 863
Delta R.T. 0.013 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 43 Resp: 2800
Ion Ratio Lower Upper
43 100
58 25.3 27.0 40.6#



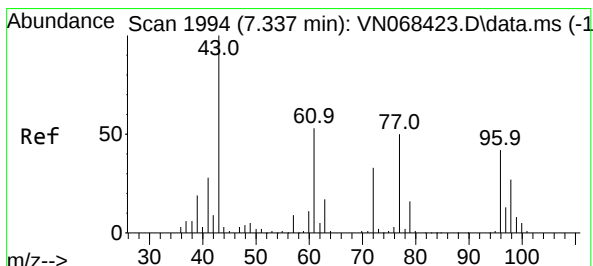
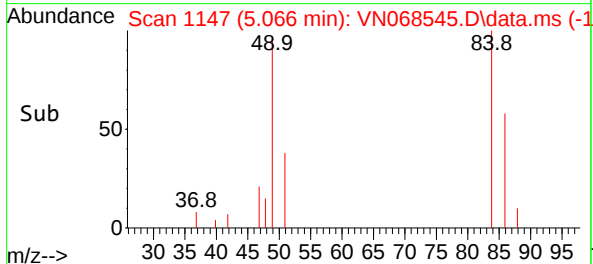
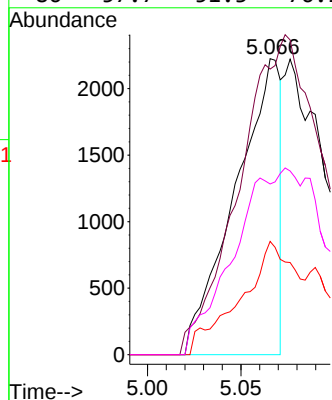
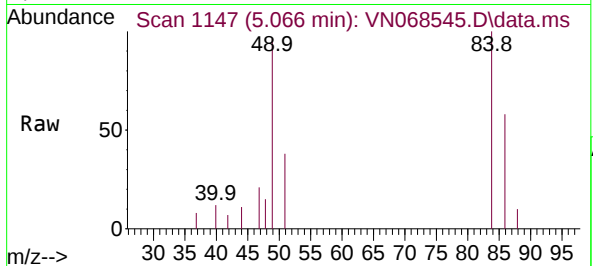


#20
Methylene Chloride
Concen: Below Cal
RT: 5.066 min Scan# 1147
Delta R.T. -0.037 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Instrument :
MSVOA_N
ClientSampleId :
NAPL-05-(20-22)

Tgt Ion: 84 Resp: 3729

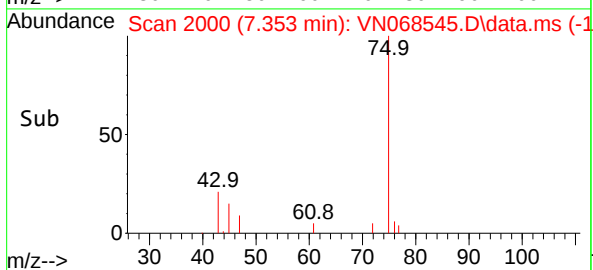
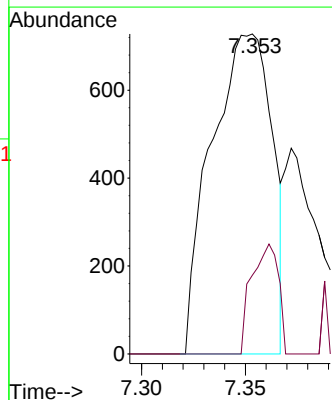
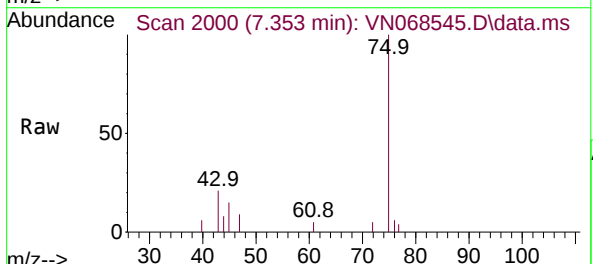
Ion	Ratio	Lower	Upper
84	100		
49	96.5	83.0	124.6
51	38.3	25.4	38.0#
86	57.7	51.3	76.9

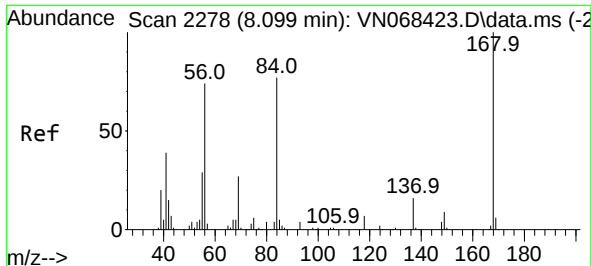


#25
2-Butanone
Concen: 0.543 ug/l
RT: 7.353 min Scan# 2000
Delta R.T. 0.016 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 43 Resp: 1478

Ion	Ratio	Lower	Upper
43	100		
72	24.6	26.7	40.1#

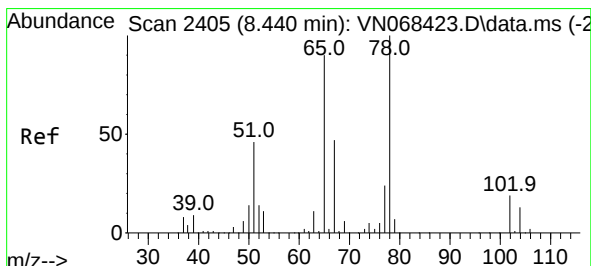
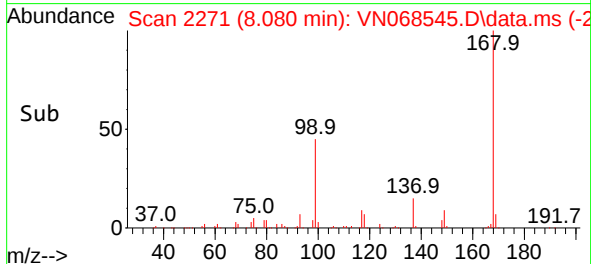
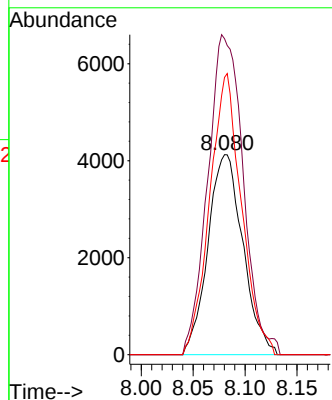
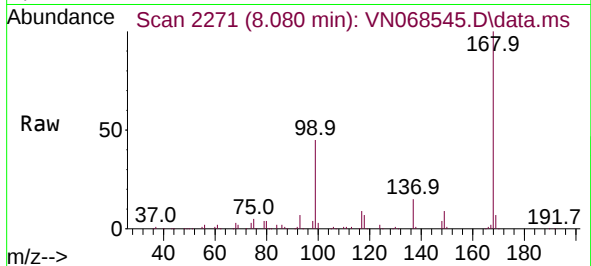




#31
Cyclohexane
Concen: 1.137 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.019 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

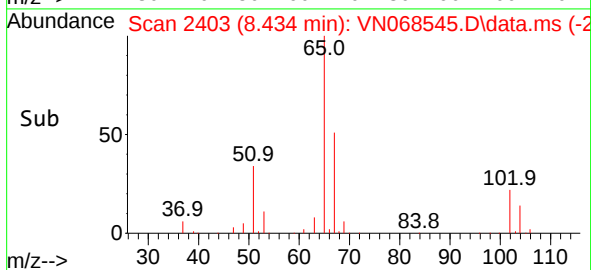
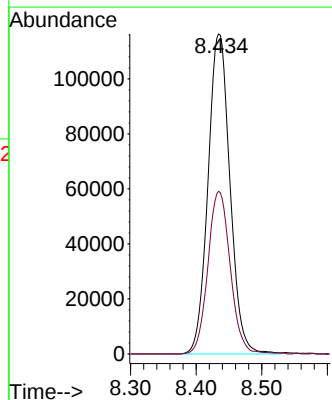
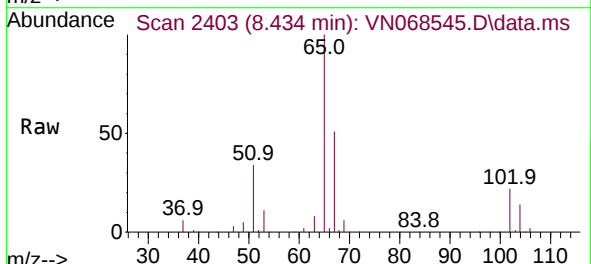
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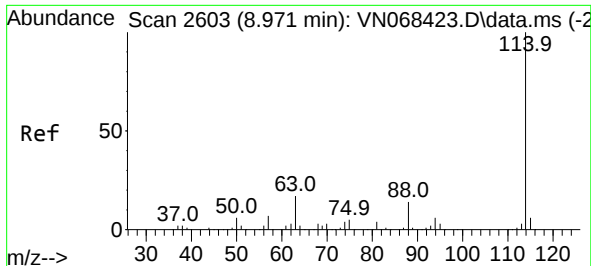
Tgt Ion: 56 Resp: 9656
Ion Ratio Lower Upper
56 100
69 157.9 29.4 44.0#
84 138.6 83.6 125.4#



#33
1,2-Dichloroethane-d4
Concen: 48.318 ug/l
RT: 8.434 min Scan# 2403
Delta R.T. -0.006 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 65 Resp: 270728
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.0

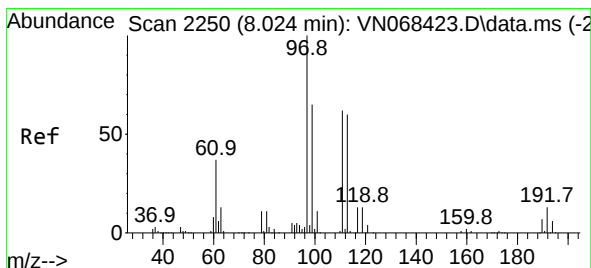
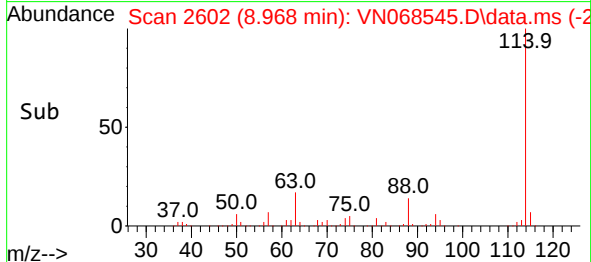
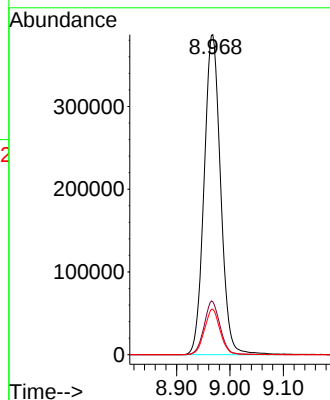
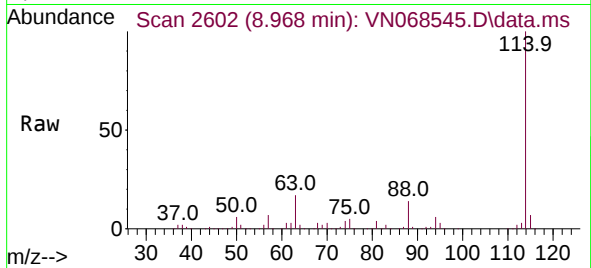




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. -0.003 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

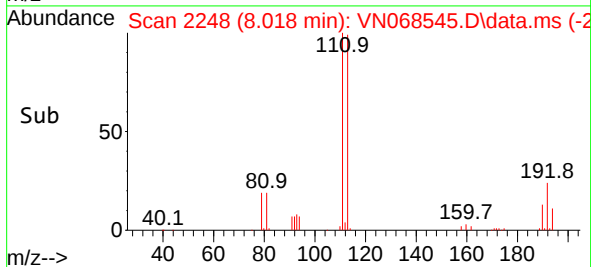
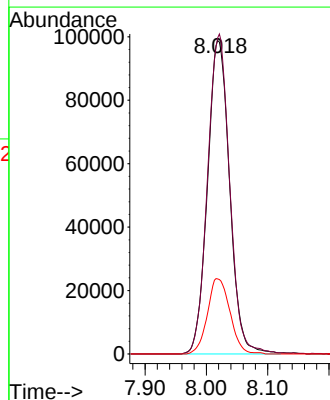
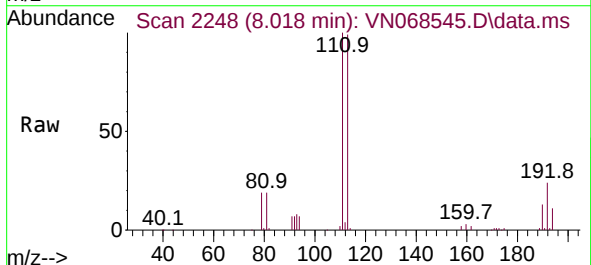
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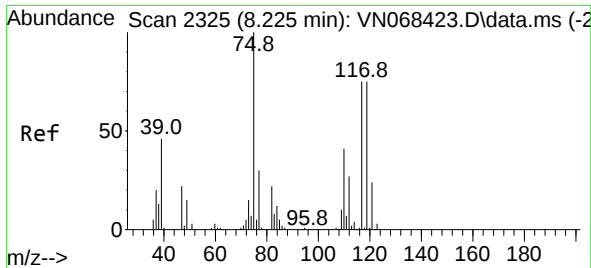
Tgt Ion:114 Resp: 827062
Ion Ratio Lower Upper
114 100
63 16.6 0.0 33.2
88 14.2 0.0 28.4



#35
Dibromofluoromethane
Concen: 49.812 ug/l
RT: 8.018 min Scan# 2248
Delta R.T. -0.006 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion:113 Resp: 248477
Ion Ratio Lower Upper
113 100
111 101.9 81.1 121.7
192 24.4 17.7 26.5

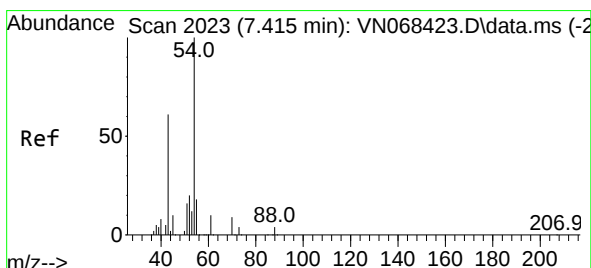
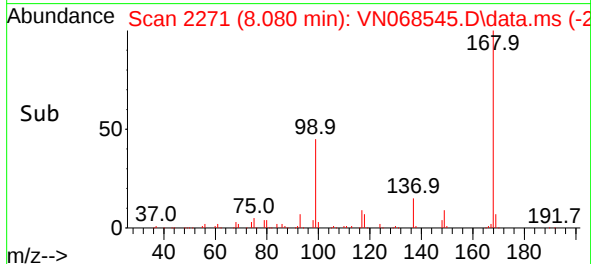
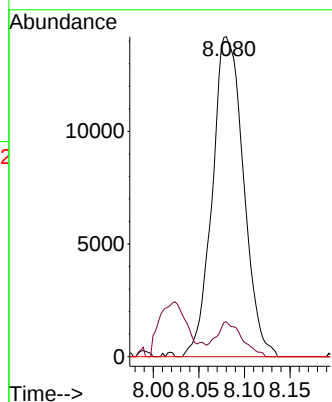
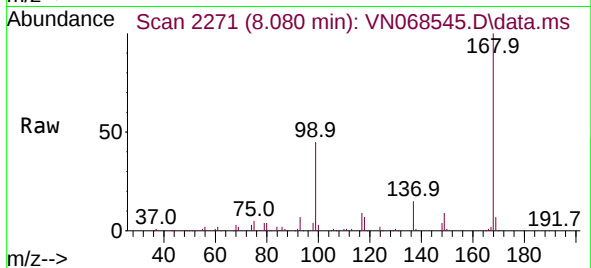




#36
1,1-Dichloropropene
Concen: 4.901 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.145 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

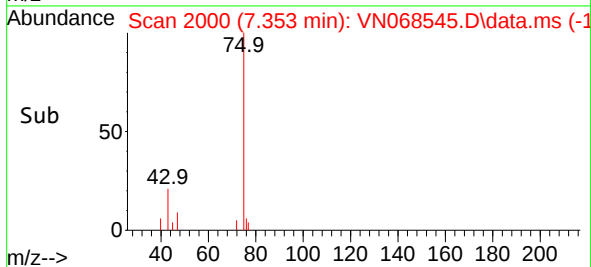
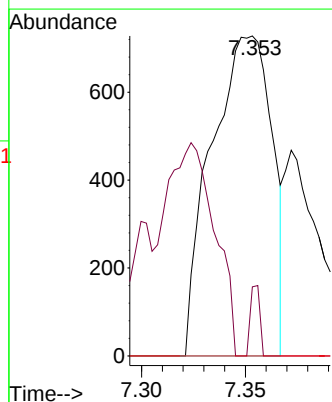
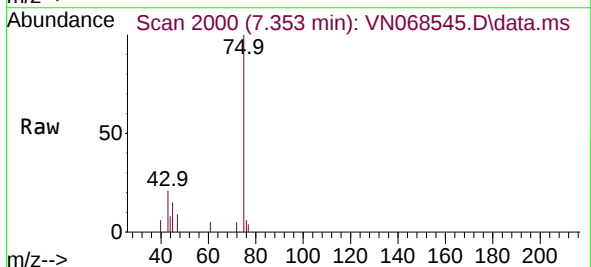
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NAPL-05-(20-22)

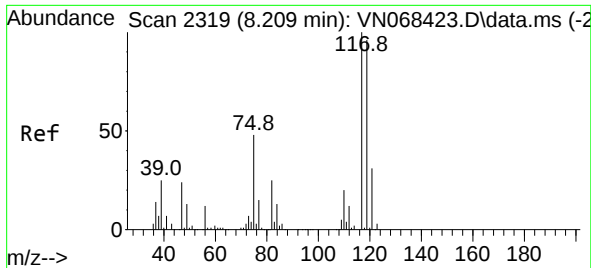
Tgt Ion: 75 Resp: 33795
Ion Ratio Lower Upper
75 100
110 9.1 20.8 62.5#
77 0.0 25.0 37.6#



#37
Ethyl Acetate
Concen: 0.282 ug/l
RT: 7.353 min Scan# 2000
Delta R.T. -0.062 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 43 Resp: 1478
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 9.6 14.4#

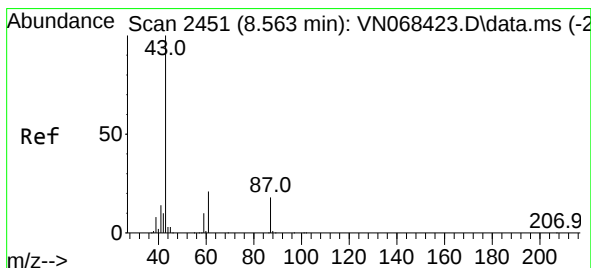
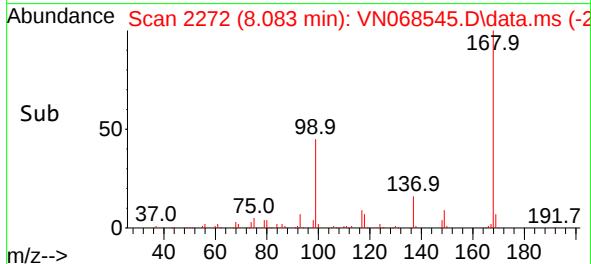
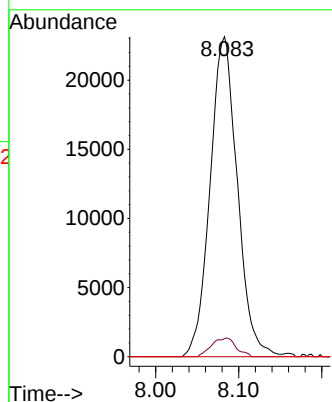
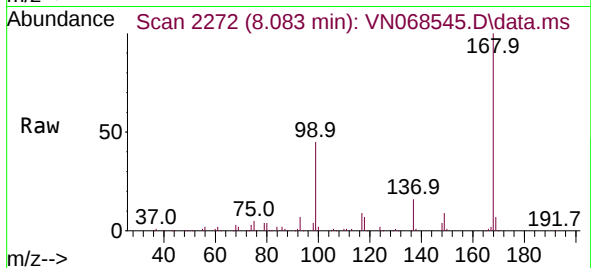




#38
Carbon Tetrachloride
Concen: 6.394 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.126 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

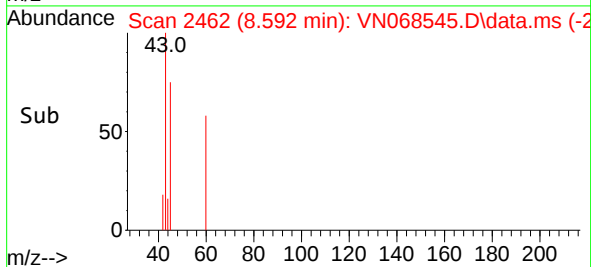
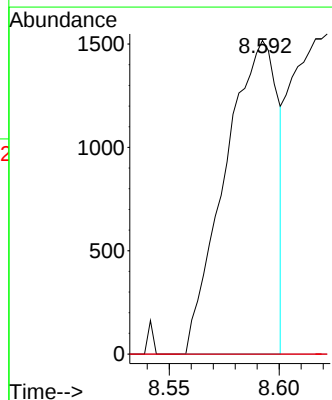
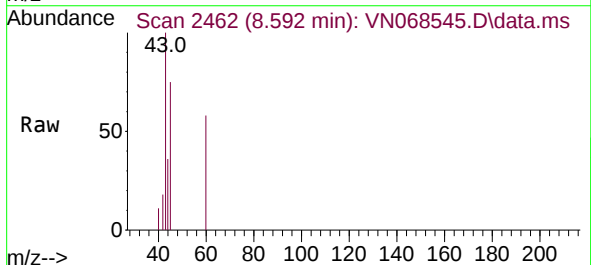
Instrument :
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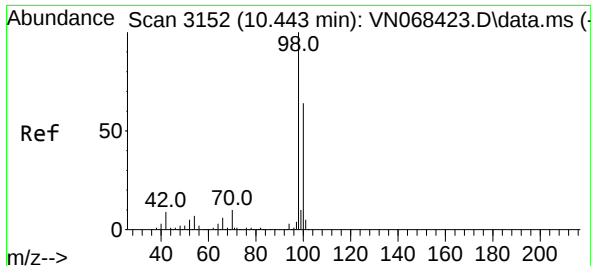
Tgt Ion:117 Resp: 52817
Ion Ratio Lower Upper
117 100
119 5.7 76.6 114.8#
121 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 0.273 ug/l
RT: 8.592 min Scan# 2462
Delta R.T. 0.029 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 43 Resp: 2529
Ion Ratio Lower Upper
43 100
61 0.0 23.3 34.9#
87 0.0 13.8 20.6#

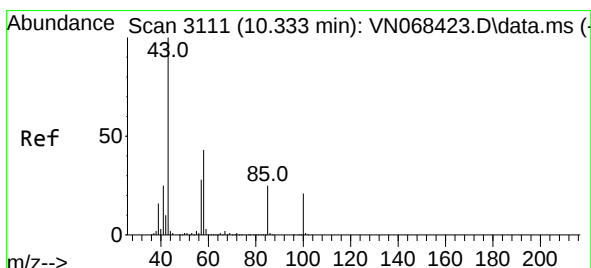
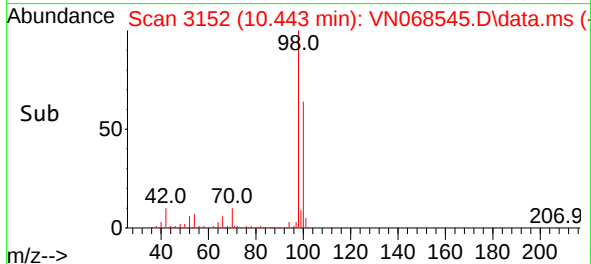
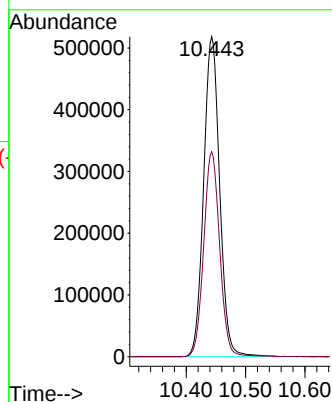
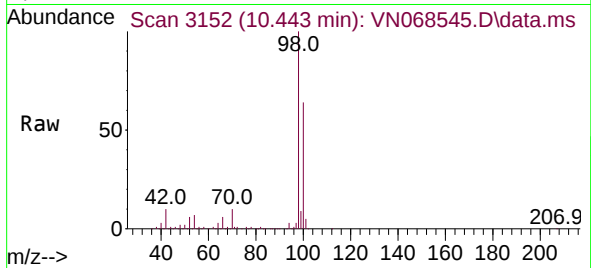




#50
Toluene-d8
Concen: 47.625 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.000 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

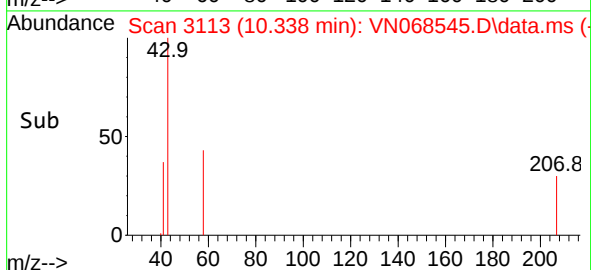
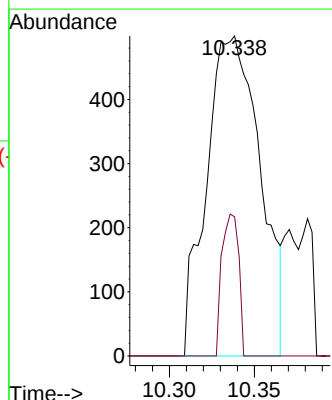
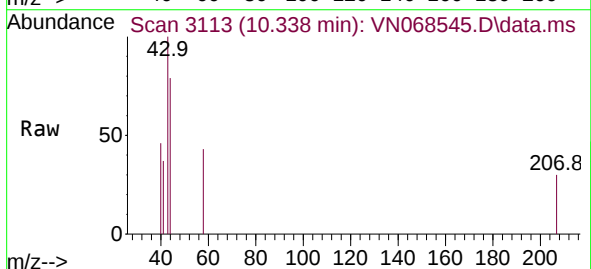
Instrument :
MSVOA_N
ClientSampleId :
NAPL-05-(20-22)

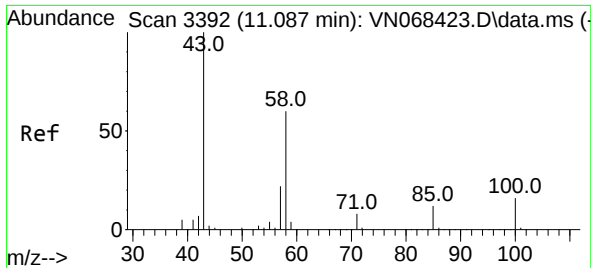
Tgt Ion: 98 Resp: 970602
Ion Ratio Lower Upper
98 100
100 64.0 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 0.208 ug/l
RT: 10.338 min Scan# 3113
Delta R.T. 0.005 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 43 Resp: 1099
Ion Ratio Lower Upper
43 100
58 0.0 34.3 51.5#

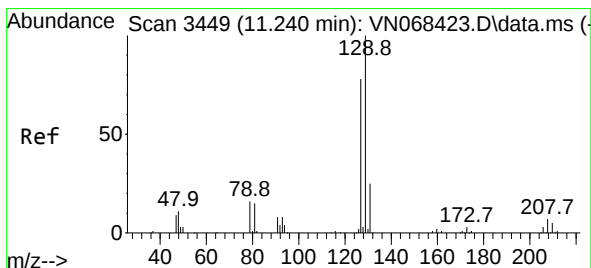
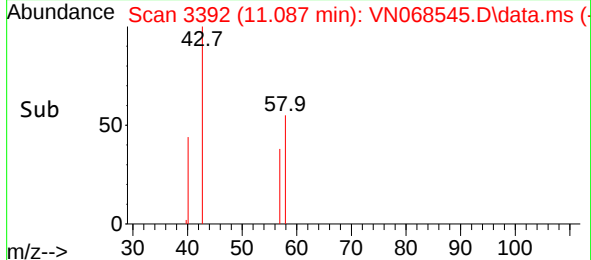
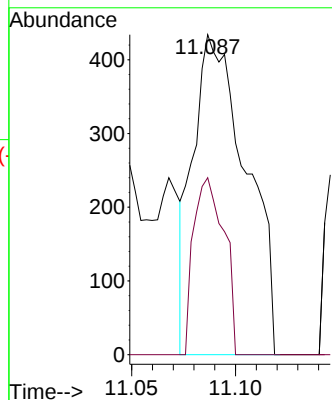
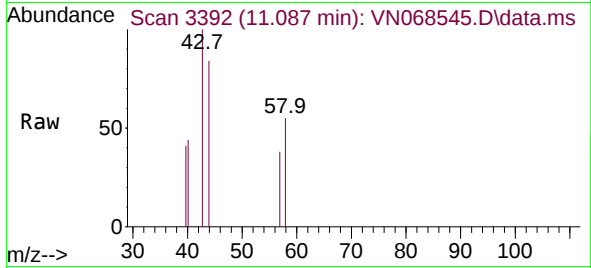




#59
2-Hexanone
Concen: 0.219 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. -0.000 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

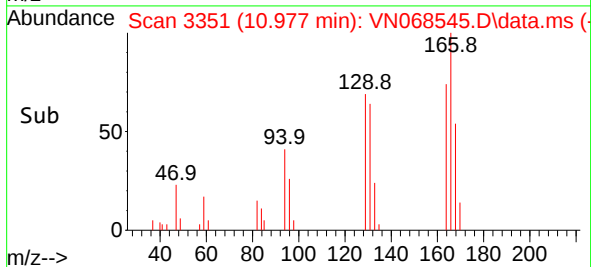
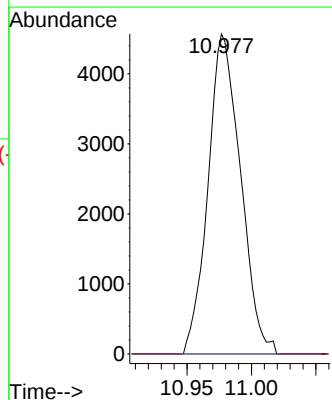
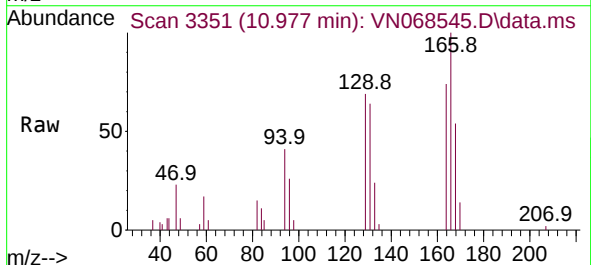
Instrument :
MSVOA_N
ClientSampleId :
NAPL-05-(20-22)

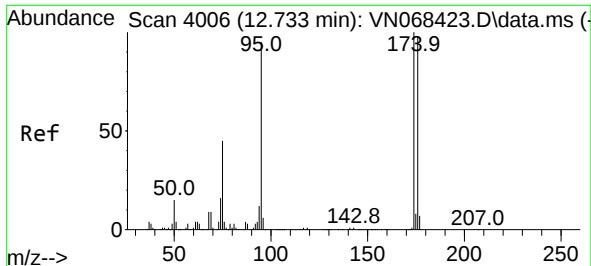
Tgt Ion: 43 Resp: 774
Ion Ratio Lower Upper
43 100
58 31.7 30.0 90.1



#60
Dibromochloromethane
Concen: 2.852 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.263 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 129 Resp: 8011
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

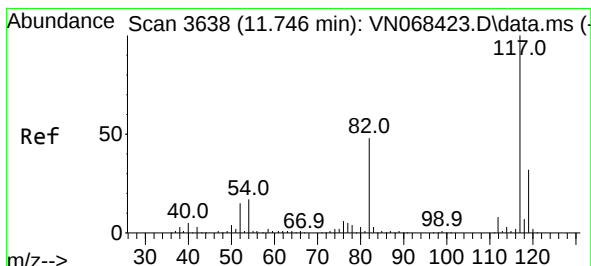
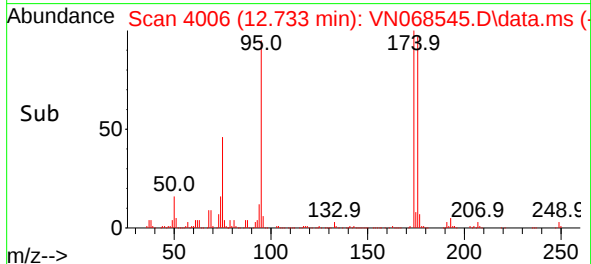
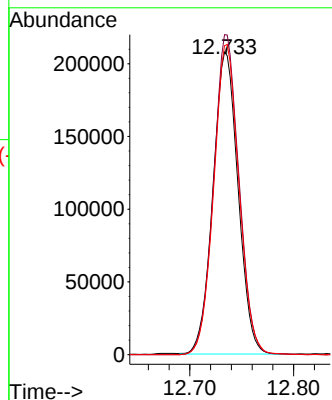
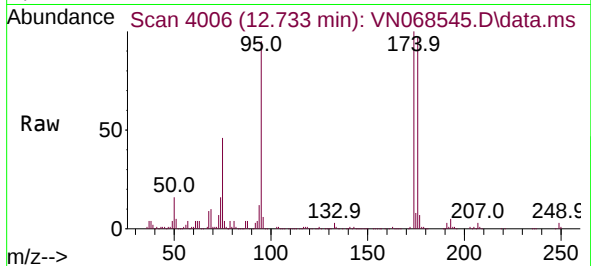




#62
4-Bromofluorobenzene
Concen: 51.545 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

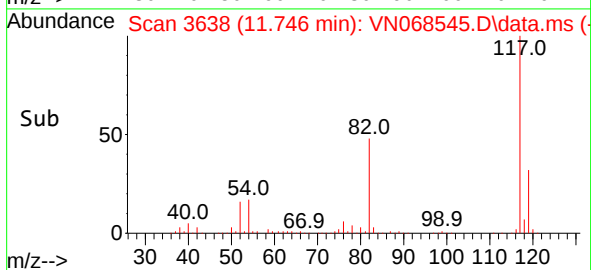
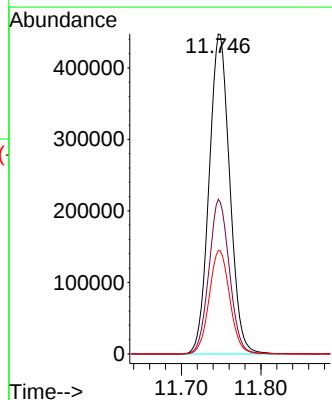
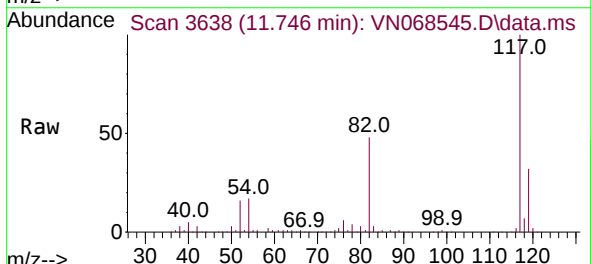
Instrument :
MSVOA_N
ClientSampleId :
NAPL-05-(20-22)

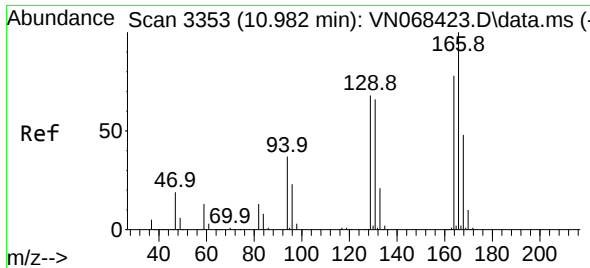
Tgt Ion: 95 Resp: 348554
Ion Ratio Lower Upper
95 100
174 107.1 0.0 214.0
176 103.6 0.0 205.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 117 Resp: 806158
Ion Ratio Lower Upper
117 100
82 48.3 38.7 58.1
119 32.3 25.5 38.3

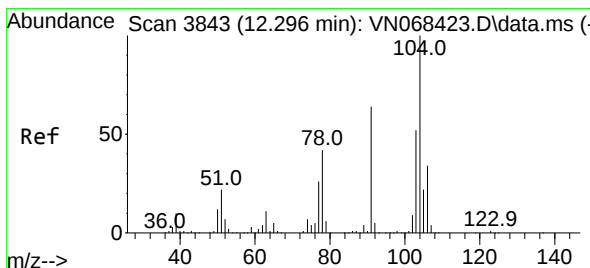
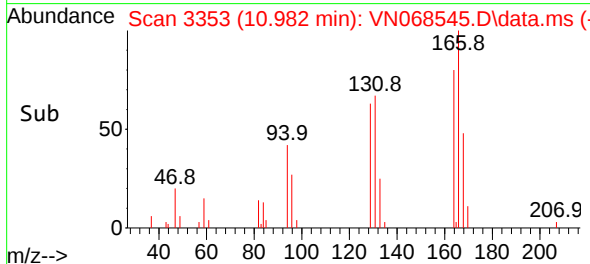
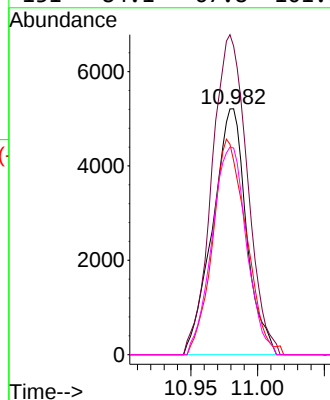
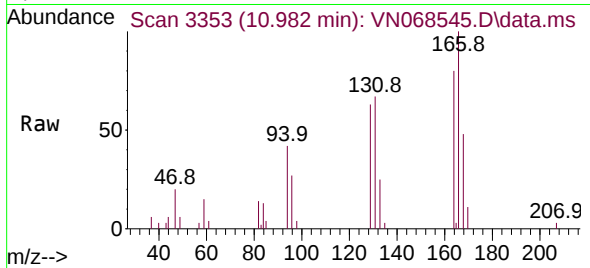




#64
Tetrachloroethene
Concen: 1.280 ug/l
RT: 10.982 min Scan# 3353
Delta R.T. 0.000 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

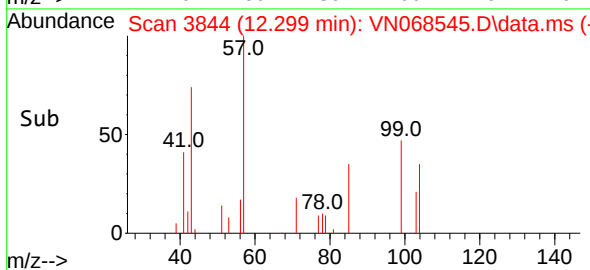
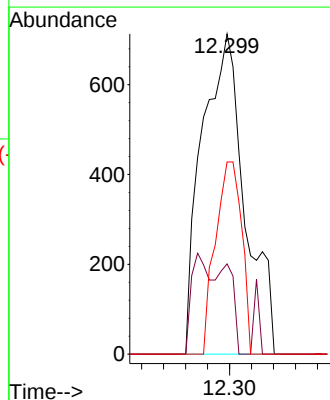
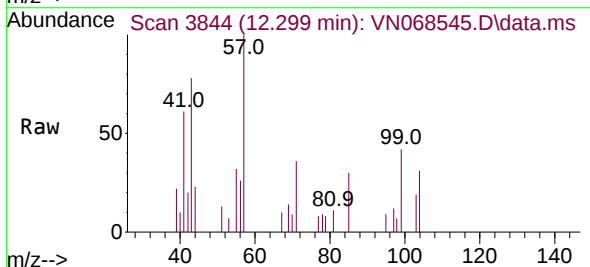
Instrument :
MSVOA_N
ClientSampleId :
NAPL-05-(20-22)

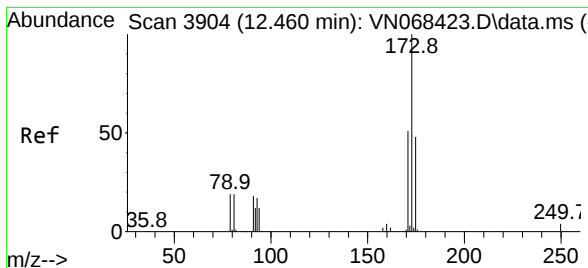
Tgt Ion:164	Resp:	9149
Ion	Ratio	Lower Upper
164	100	
166	125.4	102.9 154.3
129	78.8	70.1 105.1
131	84.1	67.8 101.6



#70
Styrene
Concen: 1.803 ug/l
RT: 12.299 min Scan# 3844
Delta R.T. 0.003 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion:104	Resp:	963
Ion	Ratio	Lower Upper
104	100	
78	12.8	36.2 54.2#
103	36.7	44.4 66.6#

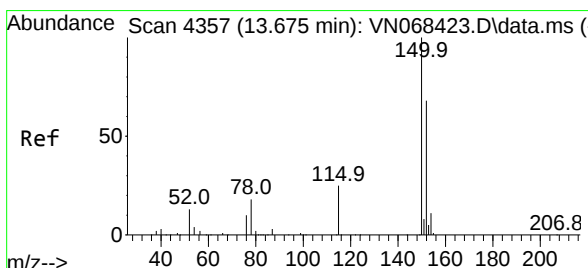
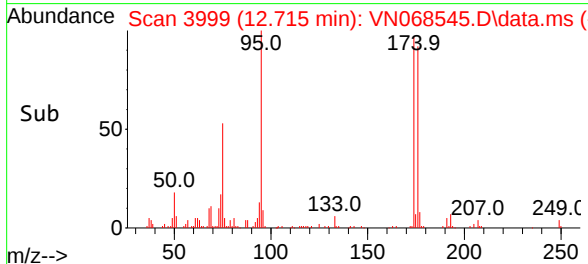
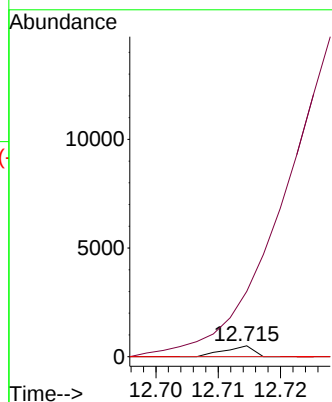
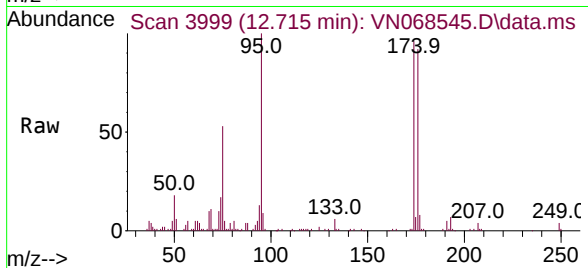




#71
Bromoform
Concen: 2.551 ug/l
RT: 12.715 min Scan# 3999
Delta R.T. 0.255 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

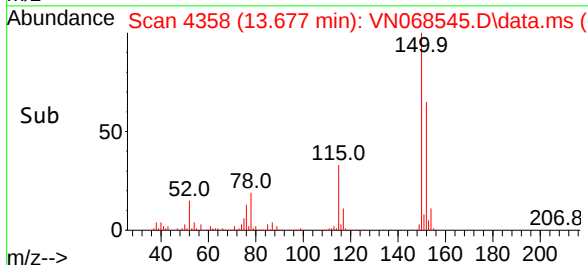
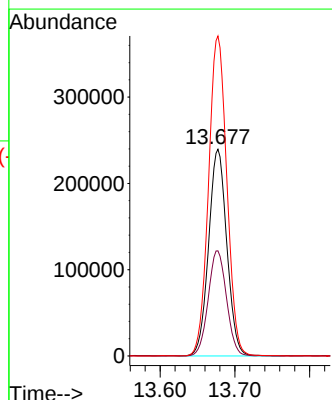
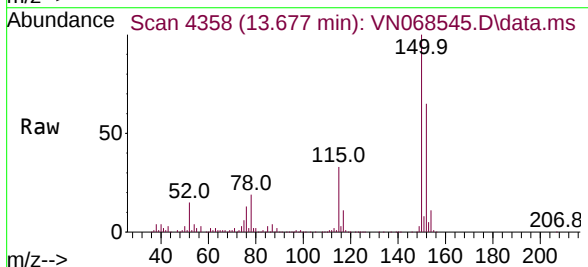
Instrument :
MSVOA_N
ClientSampleId :
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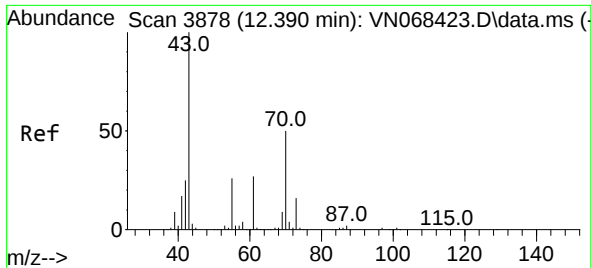
Tgt Ion:173 Resp: 162
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.002 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion:152 Resp: 406214
Ion Ratio Lower Upper
152 100
115 51.0 25.6 76.6
150 155.3 0.0 346.8

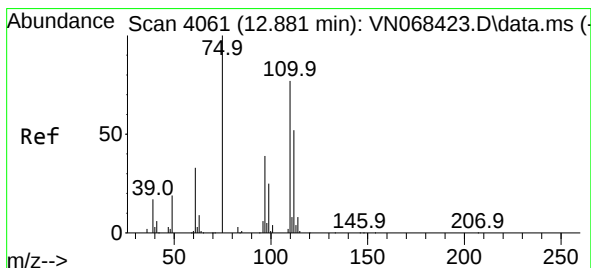
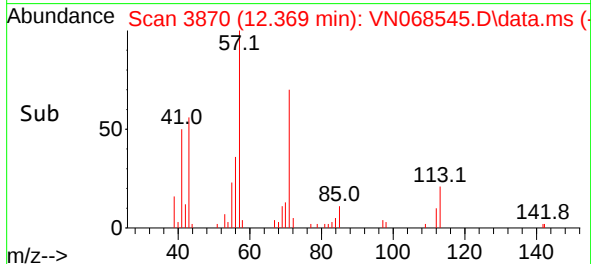
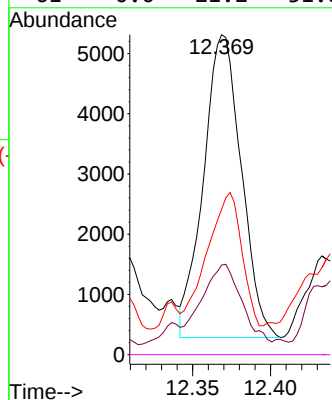
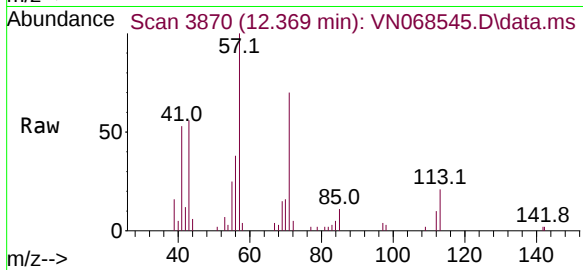




#74
N-amy1 acetate
Concen: 1.317 ug/l
RT: 12.369 min Scan# 3870
Delta R.T. -0.021 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

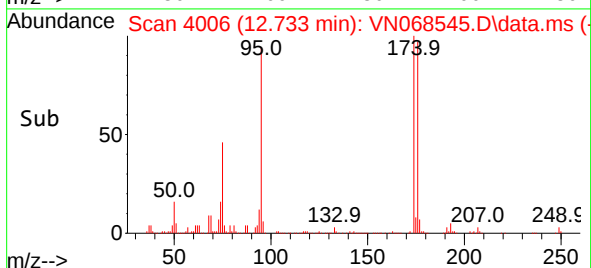
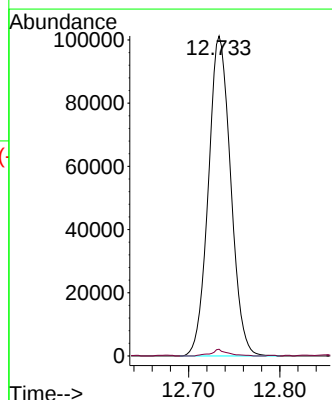
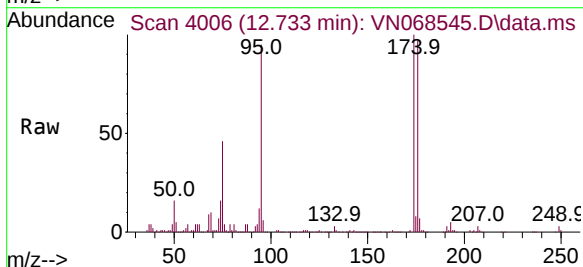
Instrument :
MSVOA_N
ClientSampleId :
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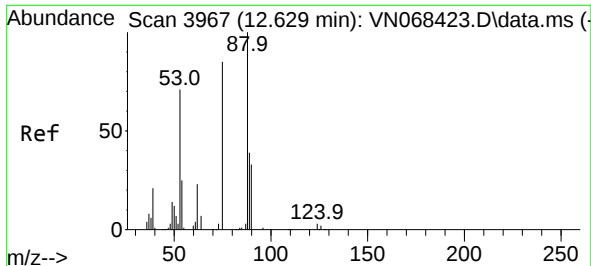
Tgt Ion:	43	Resp:	8491
Ion	Ratio	Lower	Upper
43	100		
70	25.7	40.0	60.0#
55	39.7	21.1	31.7#
61	0.0	21.2	31.8#



#76
1,2,3-Trichloropropane
Concen: 30.369 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.148 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion:	75	Resp:	172050
Ion	Ratio	Lower	Upper
75	100		
77	1.5	100.9	302.7#

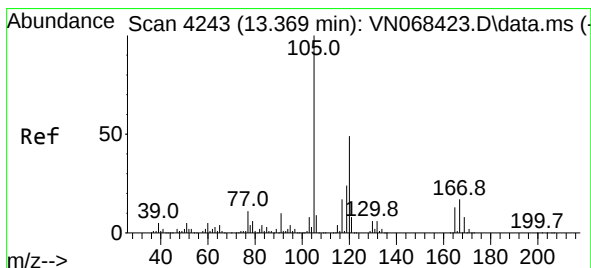
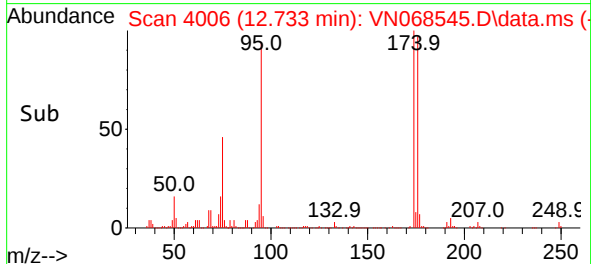
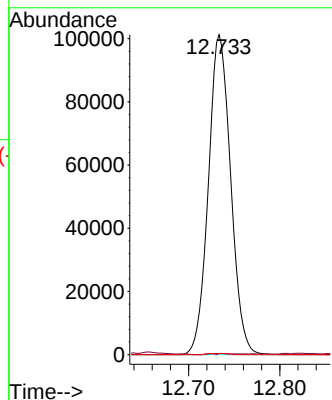
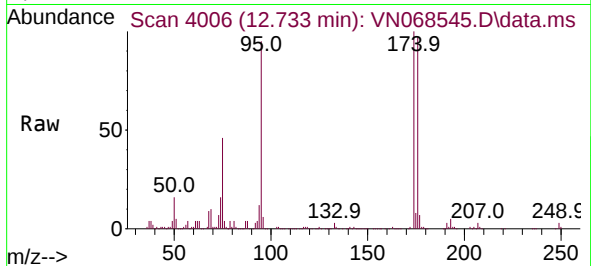




#81
trans-1,4-Dichloro-2-butene
Concen: 93.866 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

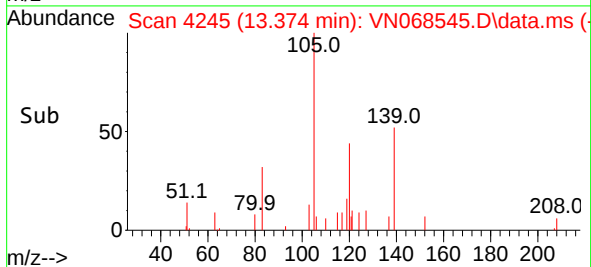
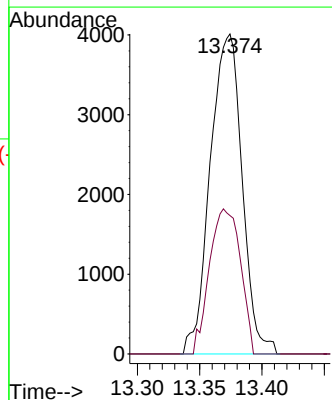
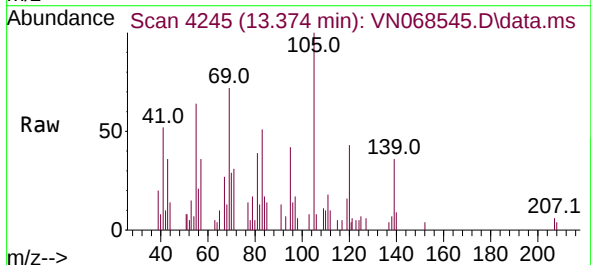
Instrument :
MSVOA_N
ClientSampleId :
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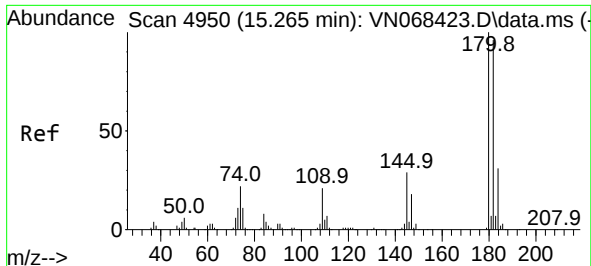
Tgt Ion: 75 Resp: 172050
Ion Ratio Lower Upper
75 100
53 0.3 70.6 105.8#
89 0.2 39.5 59.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.317 ug/l
RT: 13.374 min Scan# 4245
Delta R.T. 0.005 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion: 105 Resp: 7146
Ion Ratio Lower Upper
105 100
120 43.9 24.3 72.9

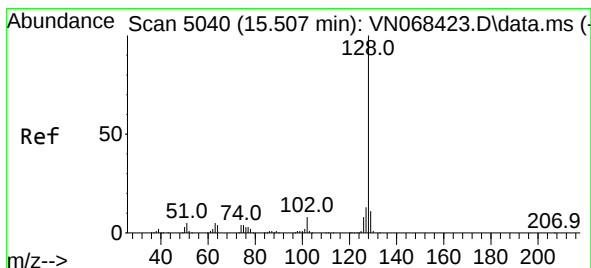
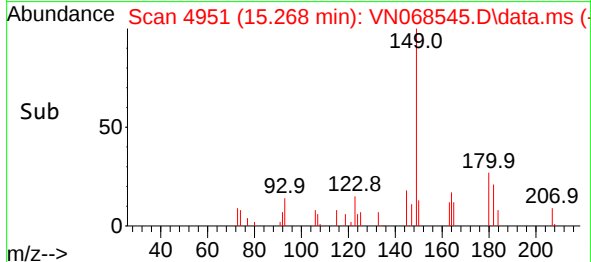
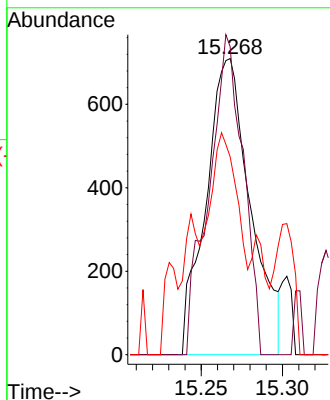
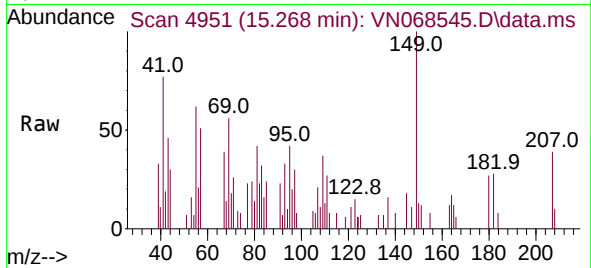




#93
1,2,4-Trichlorobenzene
Concen: 3.127 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

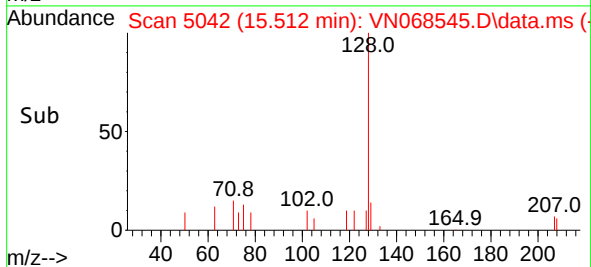
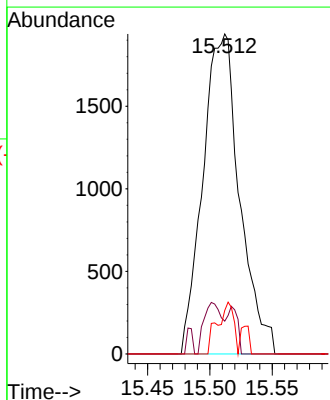
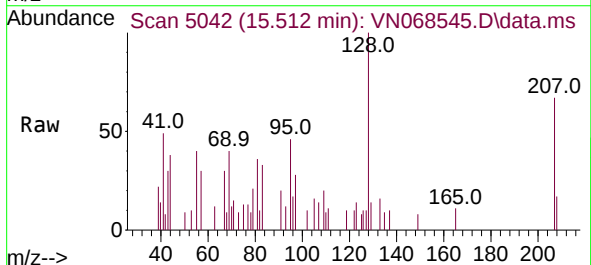
Instrument :
MSVOA_N
ClientSampleId :
NAPL-05-(20-22)

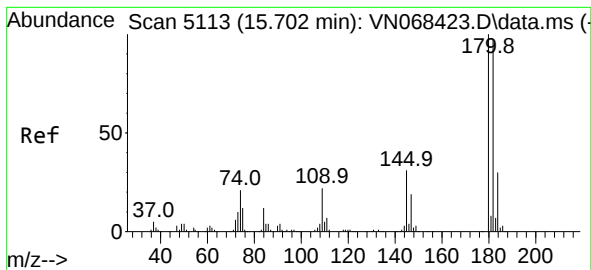
Tgt Ion:180 Resp: 1352
Ion Ratio Lower Upper
180 100
182 83.1 47.5 142.6
145 29.7 14.1 42.4



#95
Naphthalene
Concen: 3.727 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068545.D
Acq: 18 Sep 2021 3:06

Tgt Ion:128 Resp: 3984
Ion Ratio Lower Upper
128 100
127 4.0 10.6 15.8#
129 7.2 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.155 ug/l
 RT: 15.710 min Scan# 5116
 Delta R.T. 0.008 min
 Lab File: VN068545.D
 Acq: 18 Sep 2021 3:06

Instrument :
 MSVOA_N
 ClientSampleId :
 NAPL-05-(20-22)

Tgt Ion:180 Resp: 1373
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.6#
 145 29.7 15.2 45.5

