

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090222\
 Data File : VN074301.D
 Acq On : 02 Sep 2022 21:48
 Operator : JC\MD
 Sample : N4376-06D 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-39DL

Quant Time: Sep 03 04:42:04 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090222W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 03 04:35:33 2022
 Response via : Initial Calibration

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

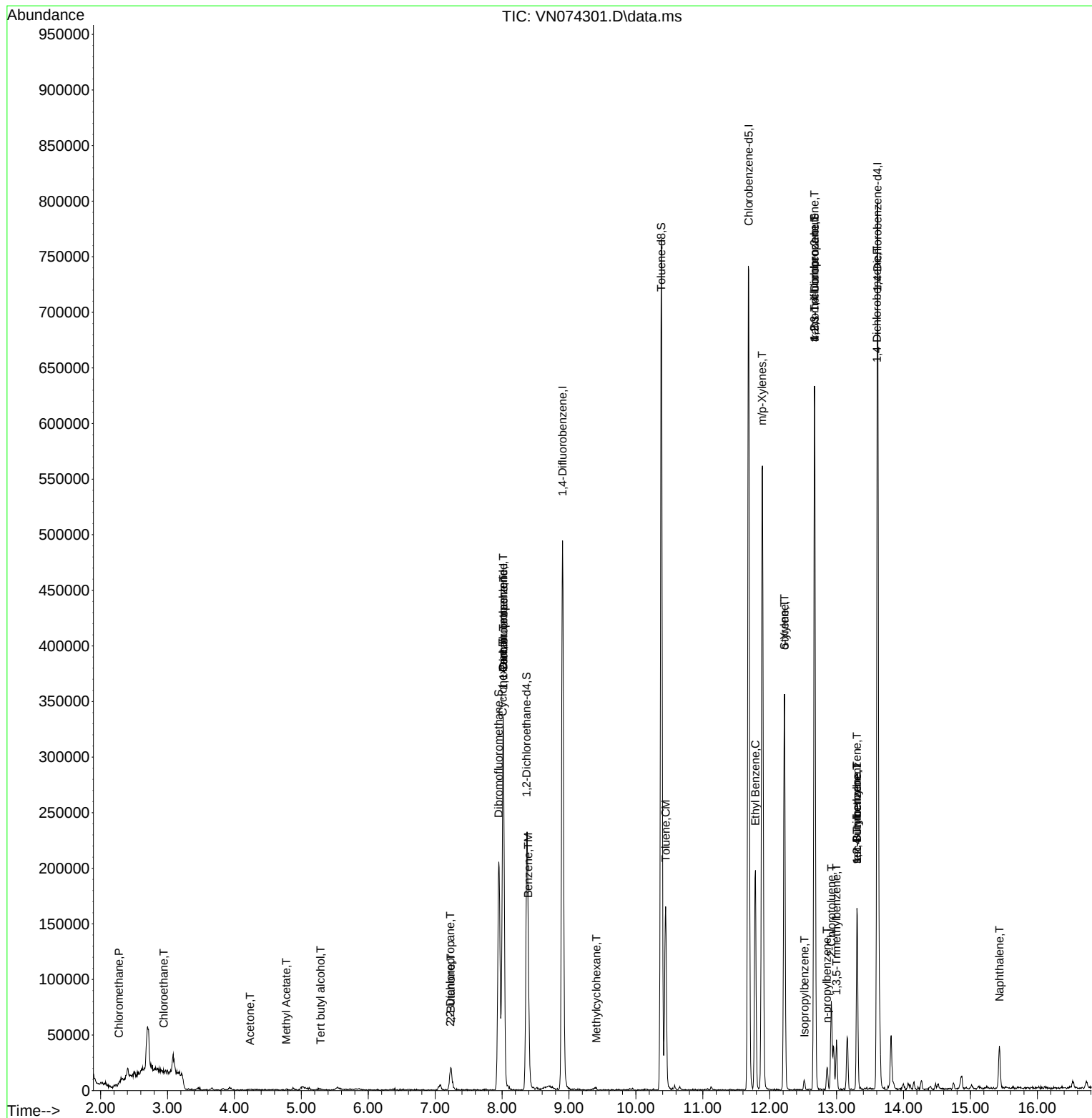
Internal Standards						
1) Pentafluorobenzene	8.016	168	237667	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	433263	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	413653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	203483	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	163110	44.026	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.060%		
35) Dibromofluoromethane	7.951	113	146551	51.045	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.080%		
50) Toluene-d8	10.380	98	507438	44.823	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.640%		
62) 4-Bromofluorobenzene	12.668	95	189443	45.974	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.940%		
Target Compounds						Qvalue
3) Chloromethane	2.275	50	1261	0.388	ug/l	94
6) Chloroethane	2.946	64	1737	0.365	ug/l #	67
11) Tert butyl alcohol	5.287	59	1205	1.793	ug/l #	72
16) Acetone	4.234	43	1010	0.652	ug/l #	42
18) Methyl Acetate	4.775	43	1778	0.382	ug/l #	54
20) Methylene Chloride	5.022	84	1789	Below Cal	#	61
25) 2-Butanone	7.234	43	796	0.304	ug/l #	45
26) 2,2-Dichloropropane	7.228	77	865	0.200	ug/l #	53
31) Cyclohexane	8.010	56	8298	1.677	ug/l #	60
36) 1,1-Dichloropropene	8.022	75	22659	5.561	ug/l #	51
38) Carbon Tetrachloride	8.016	117	25414	6.174	ug/l #	16
39) Methylcyclohexane	9.410	83	1263	0.257	ug/l #	68
40) Benzene	8.392	78	56152	4.368	ug/l	96
52) Toluene	10.445	92	69245	8.717	ug/l	97
67) Ethyl Benzene	11.786	91	136291	8.176	ug/l	96
68) m/p-Xylenes	11.886	106	176441	28.355	ug/l	97
69) o-Xylene	12.221	106	96869	15.597	ug/l	95
70) Styrene	12.221	104	5675	0.571	ug/l #	1
73) Isopropylbenzene	12.521	105	5958	0.334	ug/l	96
76) 1,2,3-Trichloropropane	12.668	75	114095	19.798	ug/l #	1
78) n-propylbenzene	12.857	91	15919	0.782	ug/l	98
79) 2-Chlorotoluene	12.921	91	5507	0.440	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.998	105	20950	1.466	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.668	75	114095	64.268	ug/l #	10
83) tert-Butylbenzene	13.304	119	11736	0.905	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.304	105	85454	5.905	ug/l	99
85) sec-Butylbenzene	13.304	105	85454	4.720	ug/l #	56
88) 1,4-Dichlorobenzene	13.604	146	294	0.206	ug/l #	1
95) Naphthalene	15.433	128	30657	2.813	ug/l	96

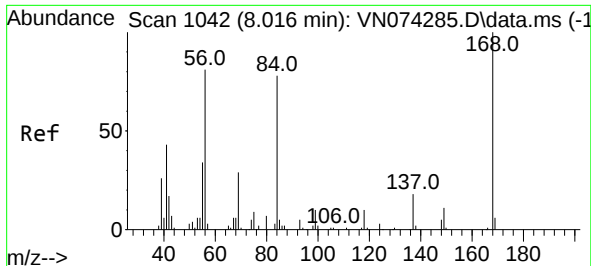
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

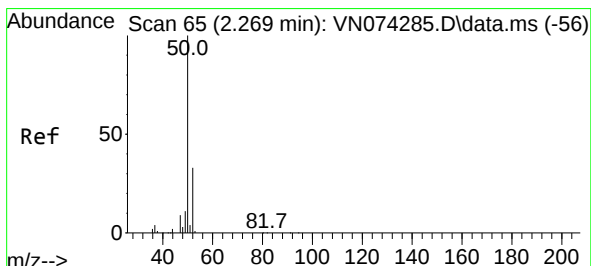
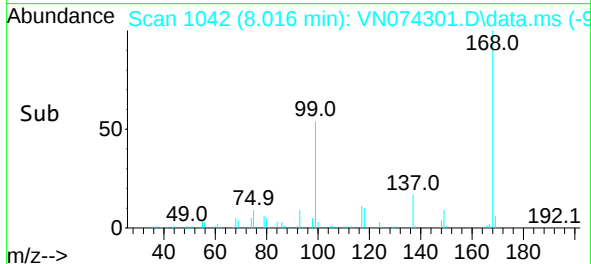
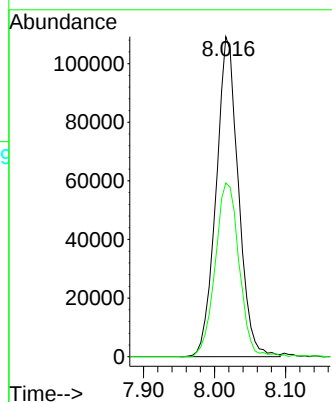
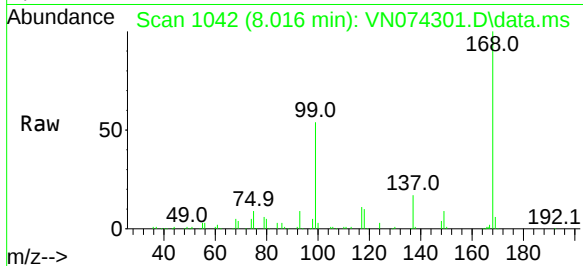




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

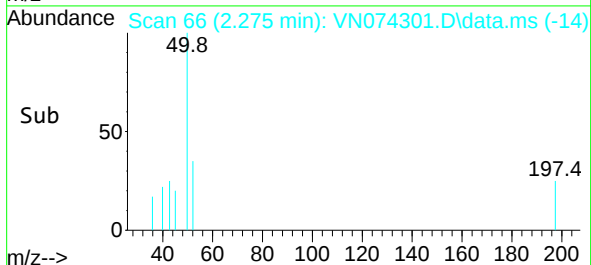
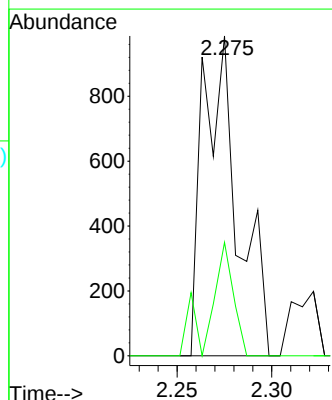
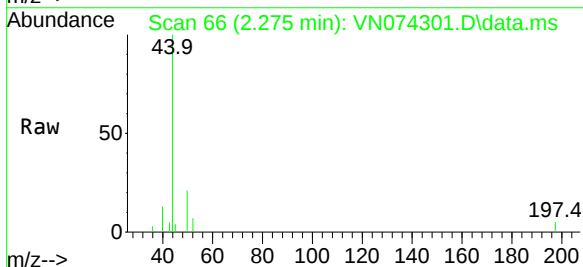
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

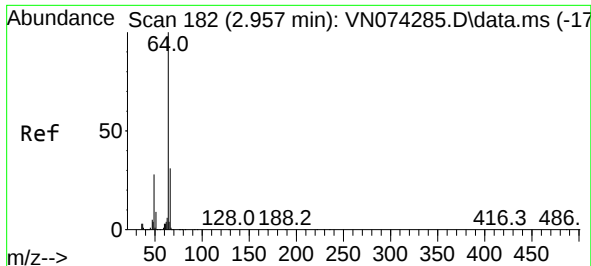
Tgt Ion:168 Resp: 237667
Ion Ratio Lower Upper
168 100
99 54.3 42.3 63.5



#3
Chloromethane
Concen: 0.388 ug/l
RT: 2.275 min Scan# 66
Delta R.T. 0.006 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 50 Resp: 1261
Ion Ratio Lower Upper
50 100
52 35.5 25.7 38.5

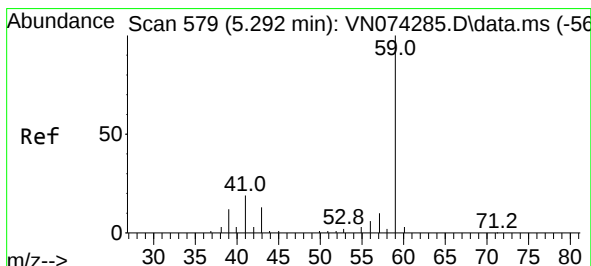
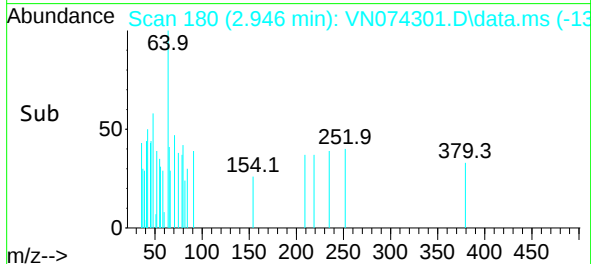
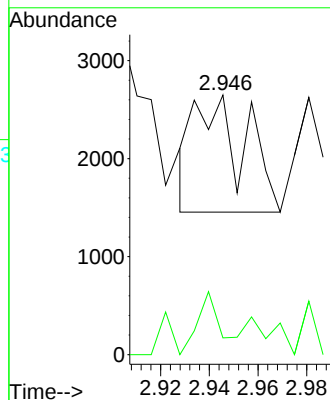
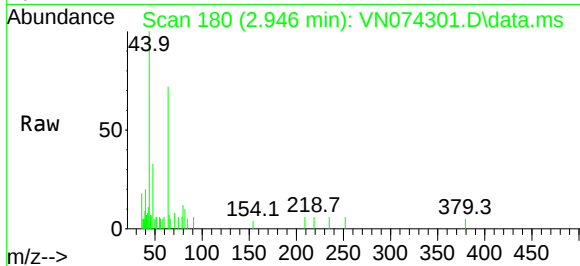




#6
Chloroethane
Concen: 0.365 ug/l
RT: 2.946 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

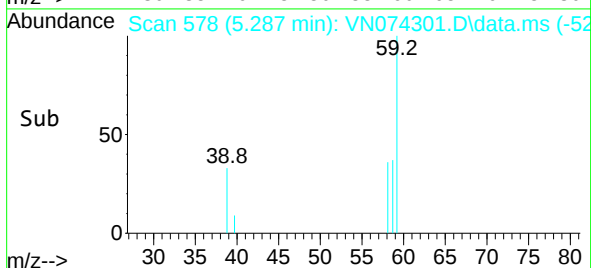
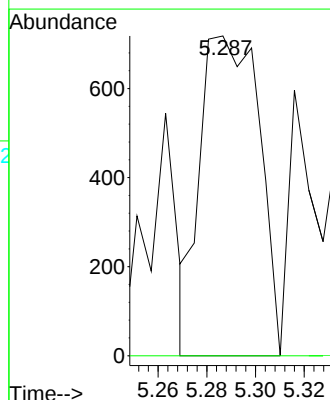
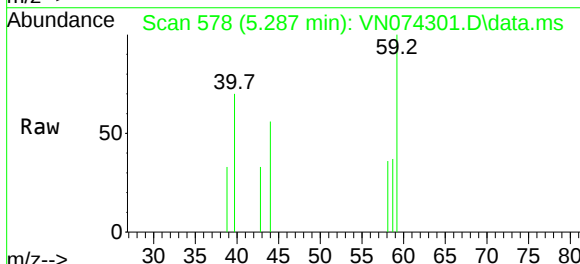
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

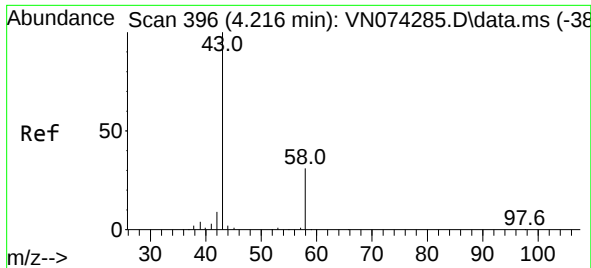
Tgt Ion: 64 Resp: 1737
Ion Ratio Lower Upper
64 100
66 14.3 26.2 39.4#



#11
Tert butyl alcohol
Concen: 1.793 ug/l
RT: 5.287 min Scan# 578
Delta R.T. -0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 59 Resp: 1205
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 0.652 ug/l

RT: 4.234 min Scan# 399

Delta R.T. 0.012 min

Lab File: VN074301.D

Acq: 02 Sep 2022 21:48

Instrument :

MSVOA_N

ClientSampleId :

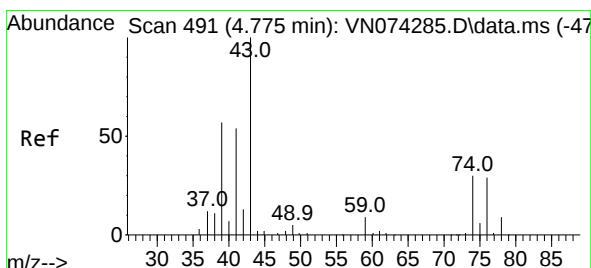
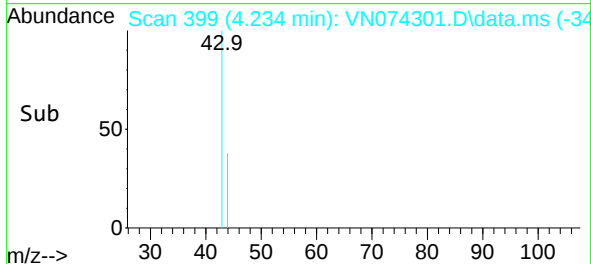
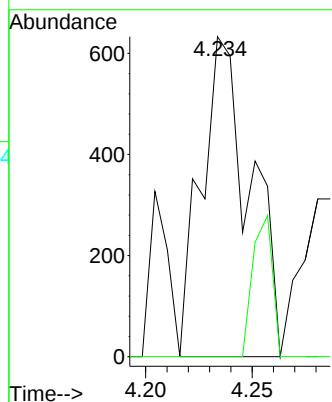
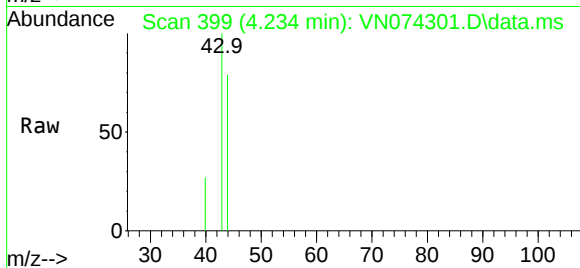
MW-39DL

Tgt Ion: 43 Resp: 1010

Ion Ratio Lower Upper

43 100

58 0.0 26.0 39.0#



#18

Methyl Acetate

Concen: 0.382 ug/l

RT: 4.775 min Scan# 491

Delta R.T. -0.000 min

Lab File: VN074301.D

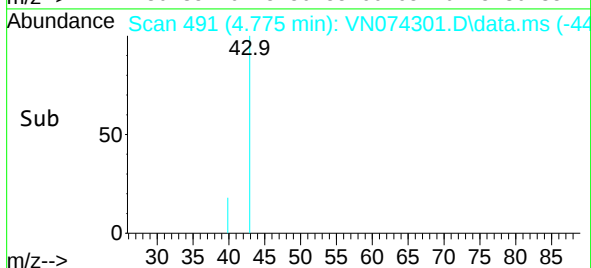
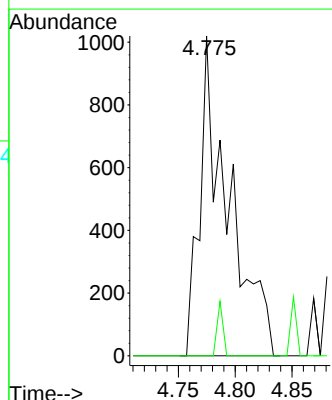
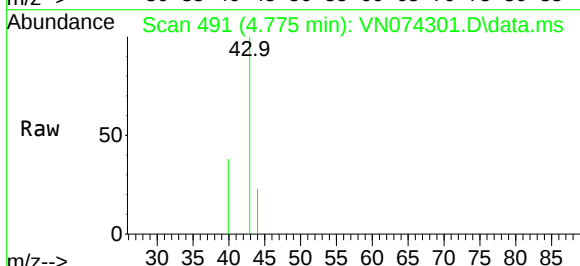
Acq: 02 Sep 2022 21:48

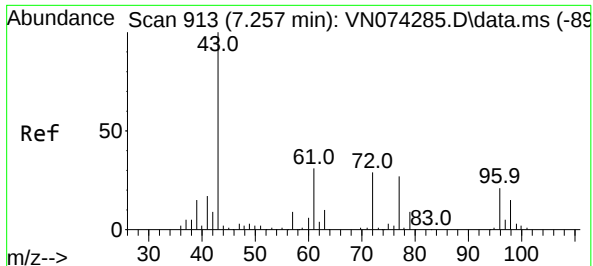
Tgt Ion: 43 Resp: 1778

Ion Ratio Lower Upper

43 100

74 3.4 21.6 32.4#





#25

2-Butanone

Concen: 0.304 ug/l

RT: 7.234 min Scan# 908

Delta R.T. -0.023 min

Lab File: VN074301.D

Acq: 02 Sep 2022 21:48

Instrument :

MSVOA_N

ClientSampleId :

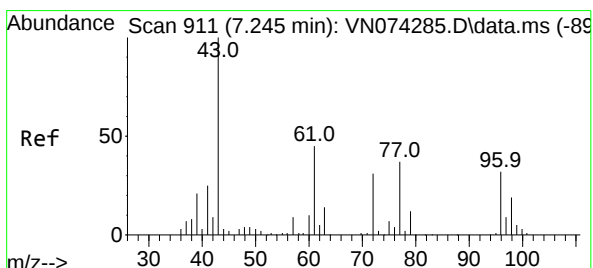
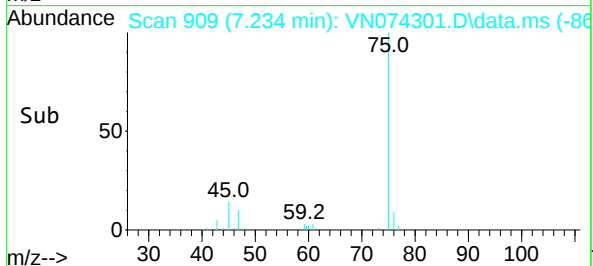
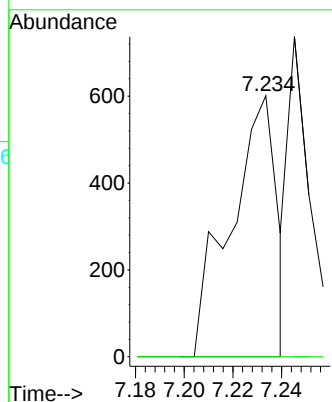
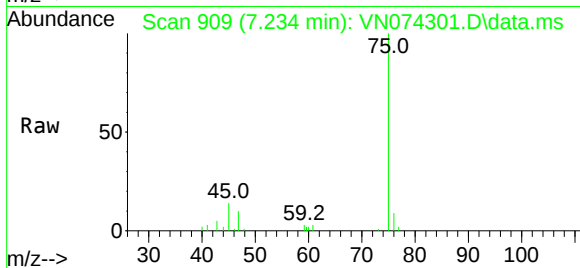
MW-39DL

Tgt Ion: 43 Resp: 796

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#26

2,2-Dichloropropane

Concen: 0.200 ug/l

RT: 7.228 min Scan# 908

Delta R.T. -0.017 min

Lab File: VN074301.D

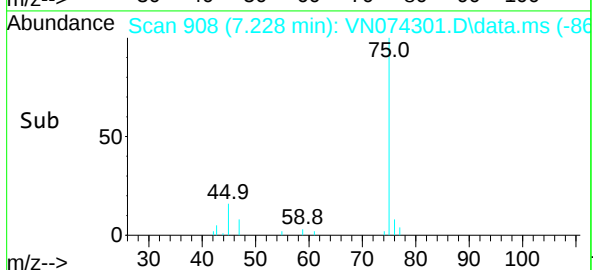
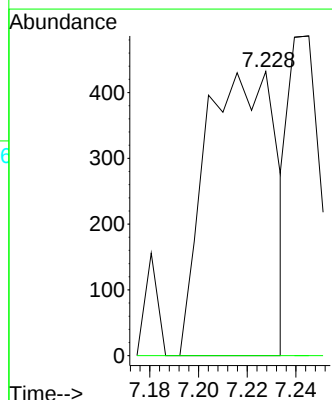
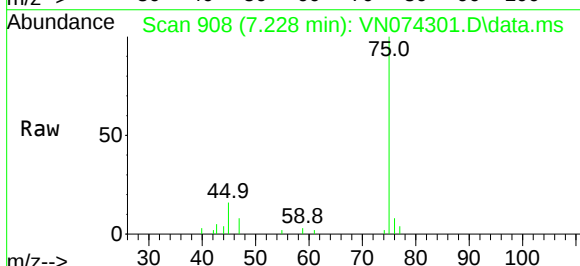
Acq: 02 Sep 2022 21:48

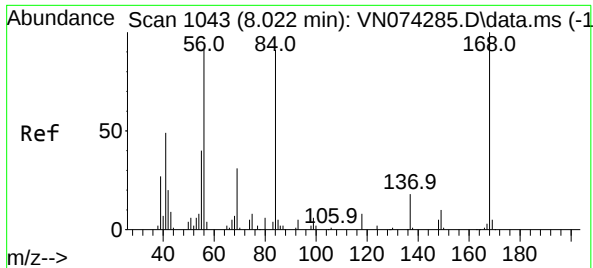
Tgt Ion: 77 Resp: 865

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#

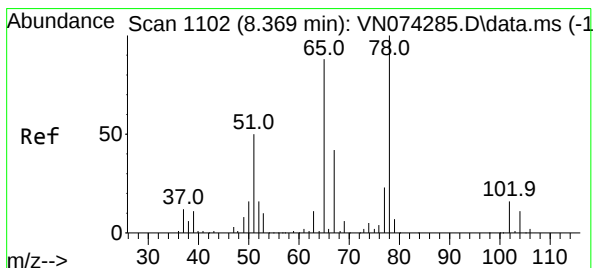
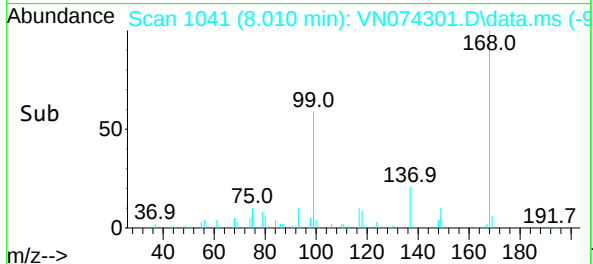
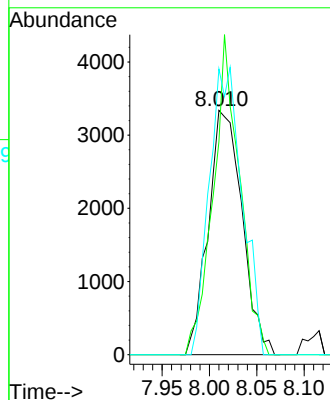
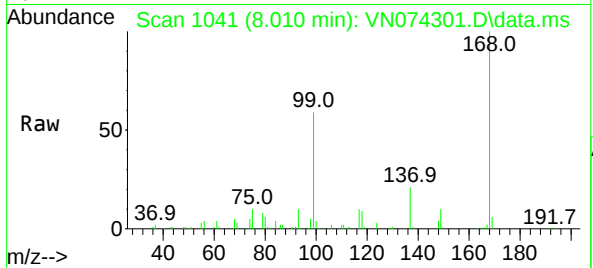




#31
Cyclohexane
Concen: 1.677 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.012 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

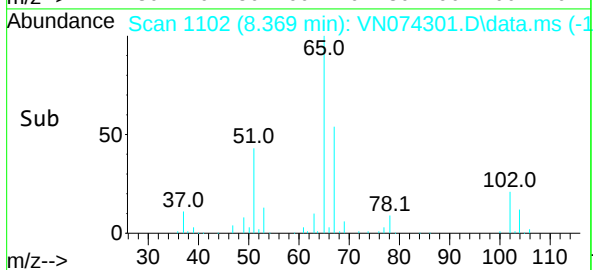
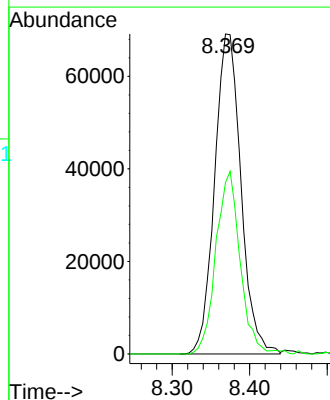
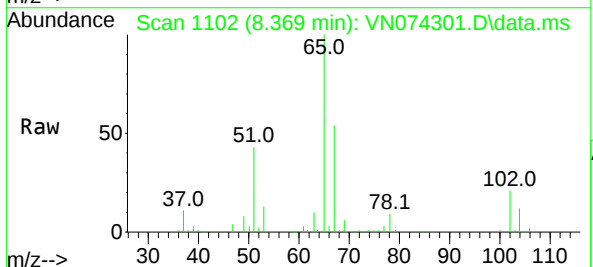
Instrument :
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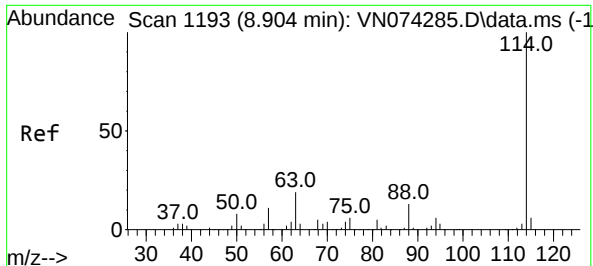
Tgt Ion: 56 Resp: 8298
Ion Ratio Lower Upper
56 100
69 87.2 27.8 41.8#
84 117.0 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 44.026 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 65 Resp: 163110
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074301.D

Acq: 02 Sep 2022 21:48

Instrument :

MSVOA_N

ClientSampleId :

MW-39DL

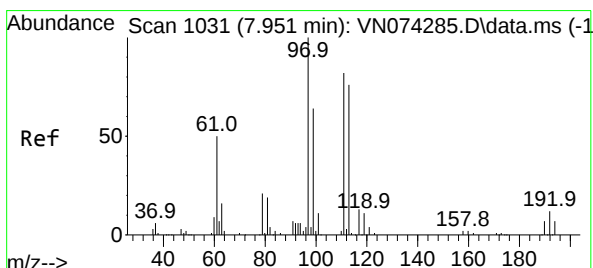
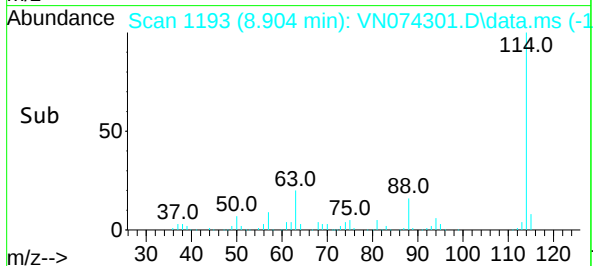
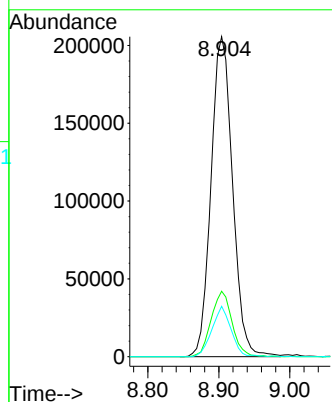
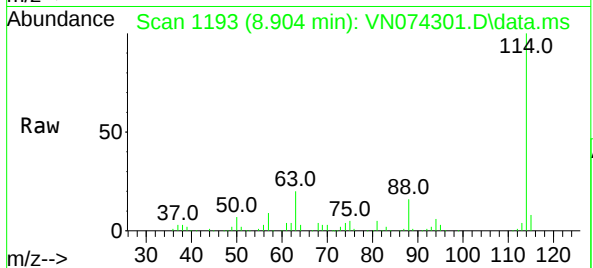
Tgt Ion:114 Resp: 433263

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.0

88 15.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.045 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074301.D

Acq: 02 Sep 2022 21:48

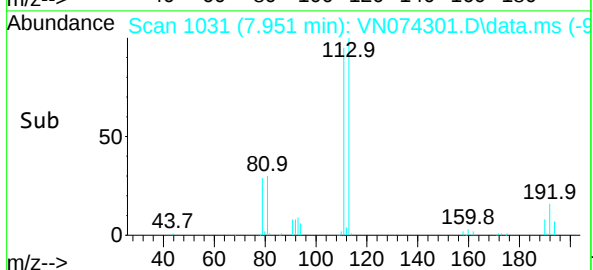
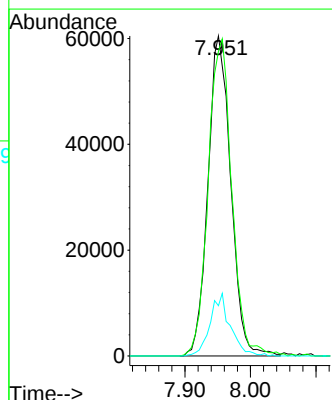
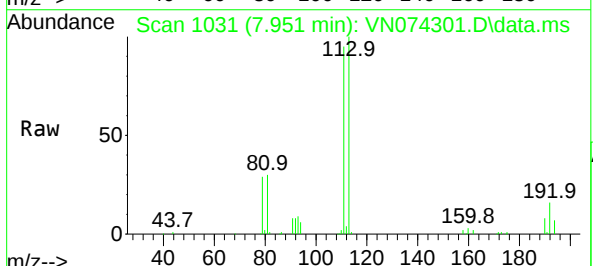
Tgt Ion:113 Resp: 146551

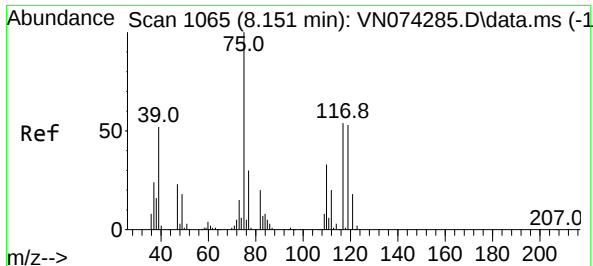
Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

192 17.3 17.0 25.6

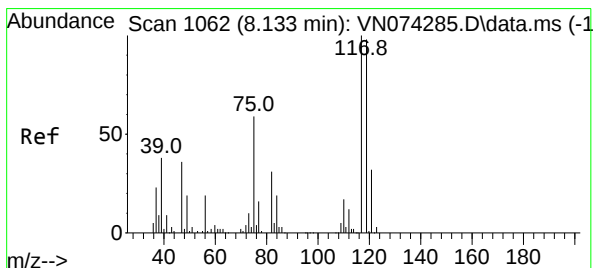
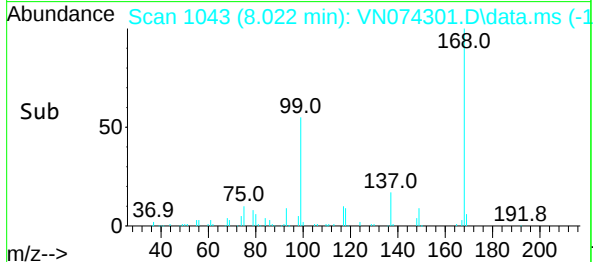
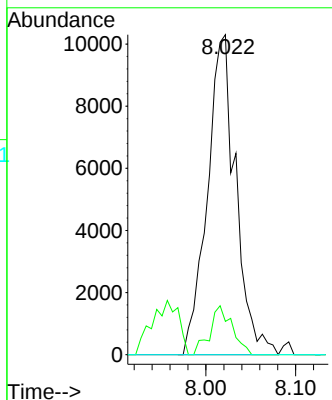
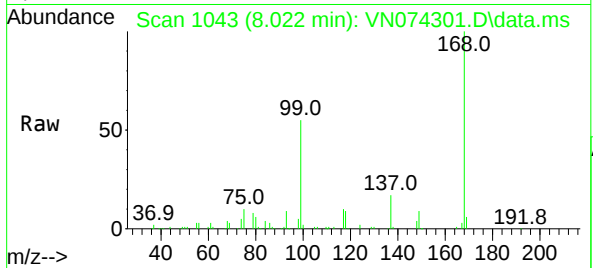




#36
 1,1-Dichloropropene
 Concen: 5.561 ug/l
 RT: 8.022 min Scan# 1043
 Delta R.T. -0.135 min
 Lab File: VN074301.D
 Acq: 02 Sep 2022 21:48

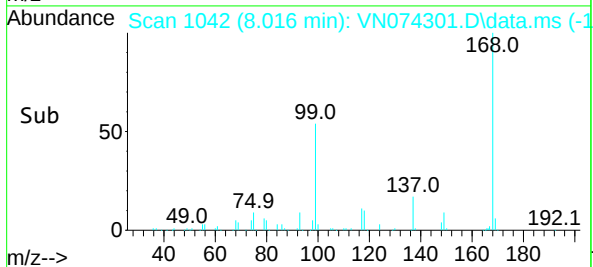
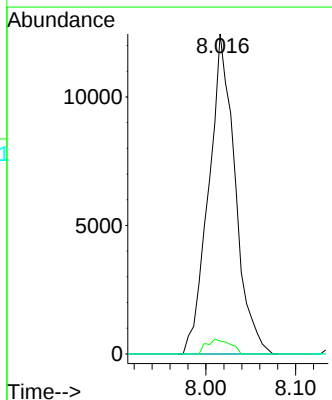
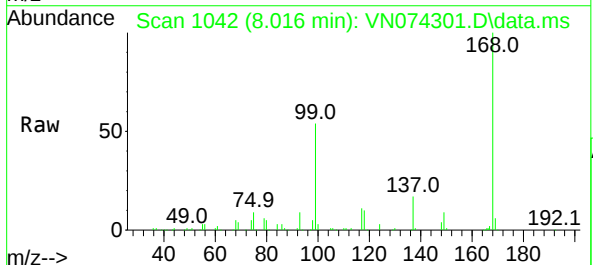
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-39DL

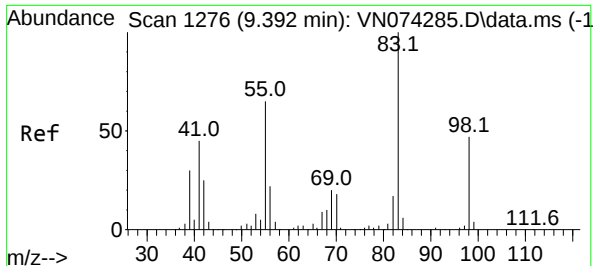
Tgt Ion: 75 Resp: 22659
 Ion Ratio Lower Upper
 75 100
 110 12.0 18.3 54.8#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.174 ug/l
 RT: 8.016 min Scan# 1042
 Delta R.T. -0.117 min
 Lab File: VN074301.D
 Acq: 02 Sep 2022 21:48

Tgt Ion: 117 Resp: 25414
 Ion Ratio Lower Upper
 117 100
 119 4.0 75.8 113.8#
 121 0.0 24.6 37.0#





#39

Methylcyclohexane

Concen: 0.257 ug/l

RT: 9.410 min Scan# 1106

Delta R.T. 0.018 min

Lab File: VN074301.D

Acq: 02 Sep 2022 21:48

Instrument :

MSVOA_N

ClientSampleId :

MW-39DL

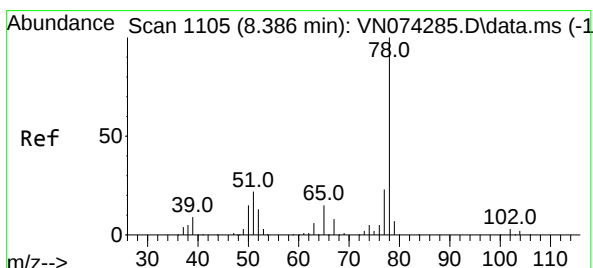
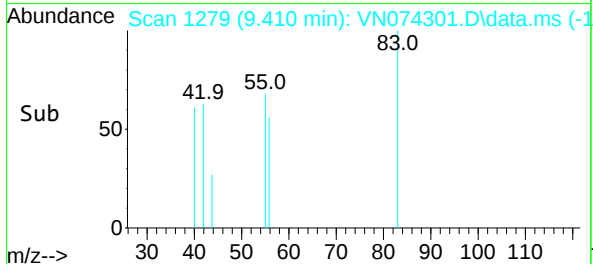
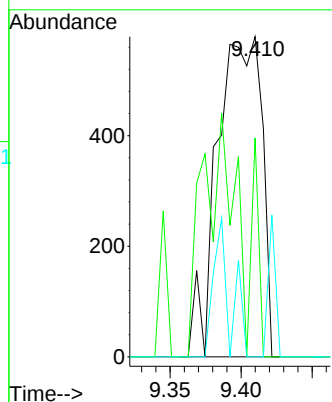
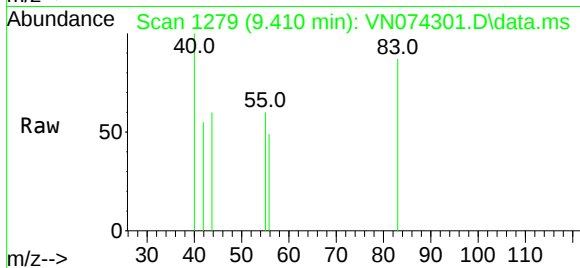
Tgt Ion: 83 Resp: 1263

Ion Ratio Lower Upper

83 100

55 68.4 57.8 86.8

98 0.0 39.4 59.2#



#40

Benzene

Concen: 4.368 ug/l

RT: 8.392 min Scan# 1106

Delta R.T. 0.000 min

Lab File: VN074301.D

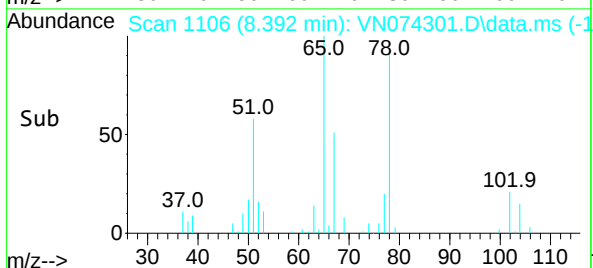
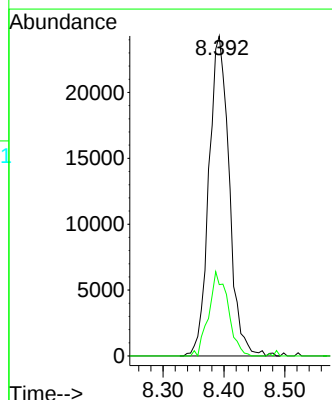
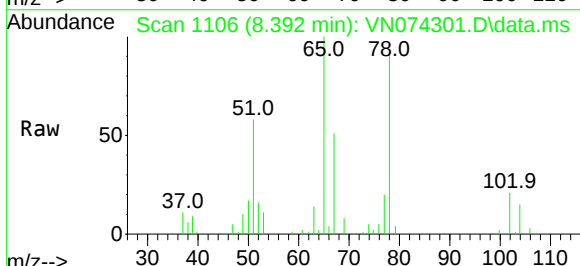
Acq: 02 Sep 2022 21:48

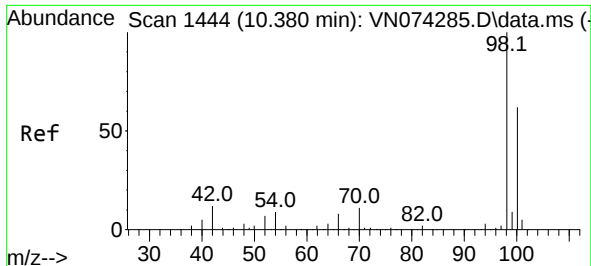
Tgt Ion: 78 Resp: 56152

Ion Ratio Lower Upper

78 100

77 22.3 19.4 29.0

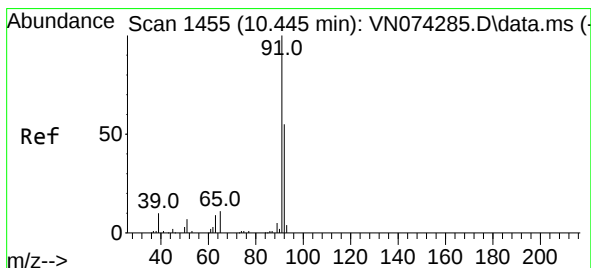
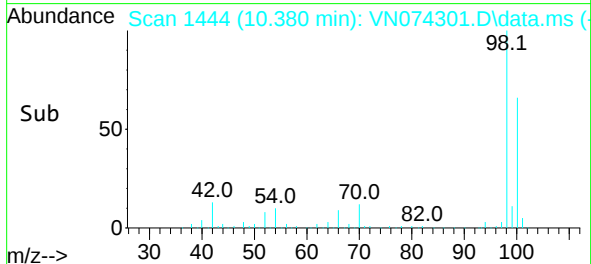
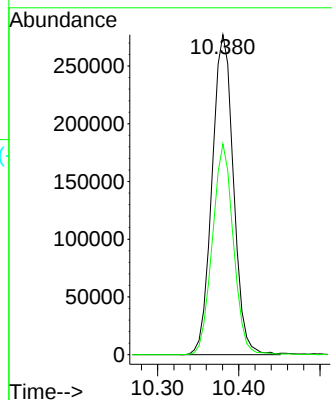
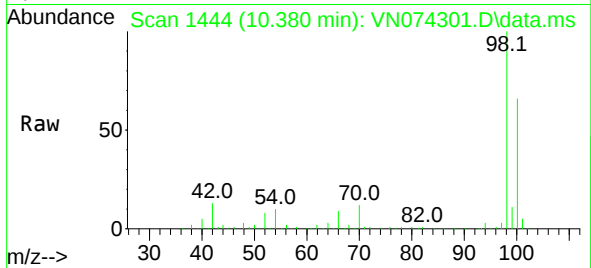




#50
Toluene-d8
Concen: 44.823 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

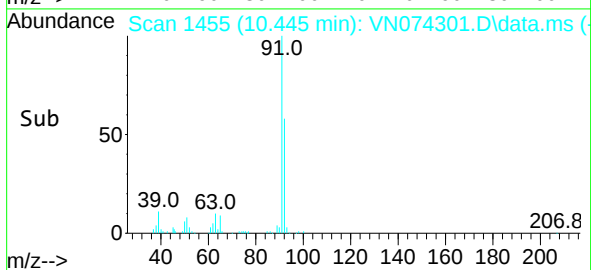
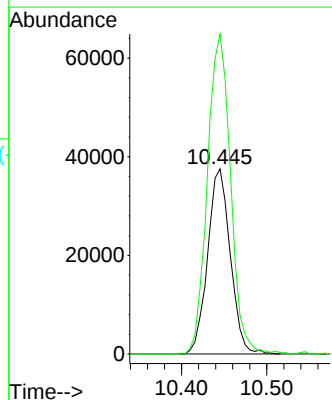
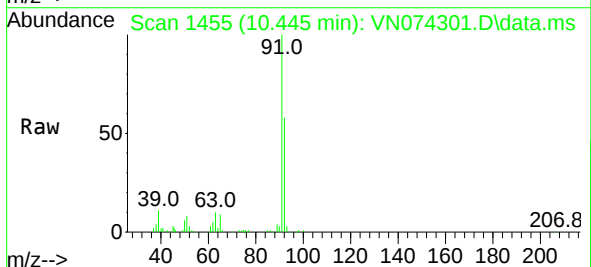
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

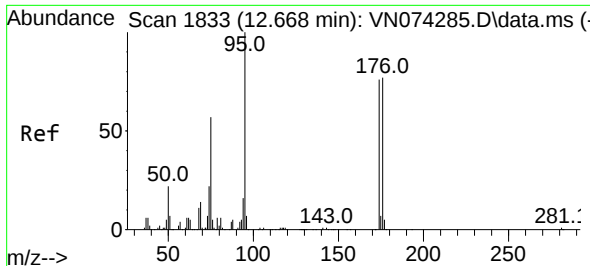
Tgt Ion: 98 Resp: 507438
Ion Ratio Lower Upper
98 100
100 64.6 52.6 78.8



#52
Toluene
Concen: 8.717 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 92 Resp: 69245
Ion Ratio Lower Upper
92 100
91 176.8 138.6 207.8

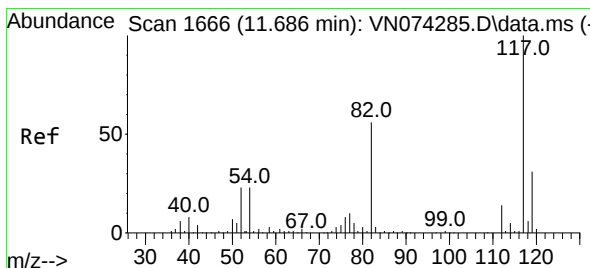
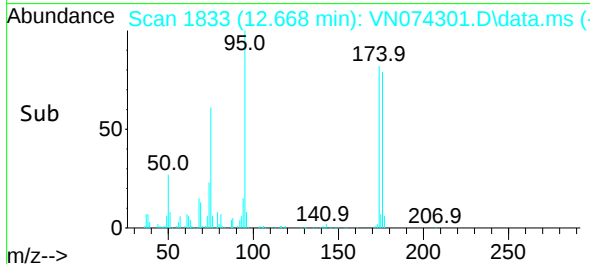
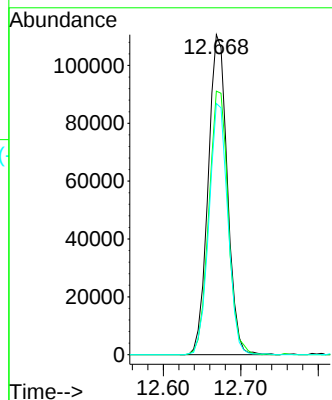
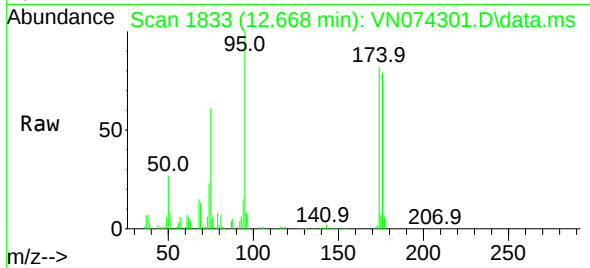




#62
4-Bromofluorobenzene
Concen: 45.974 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.001 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

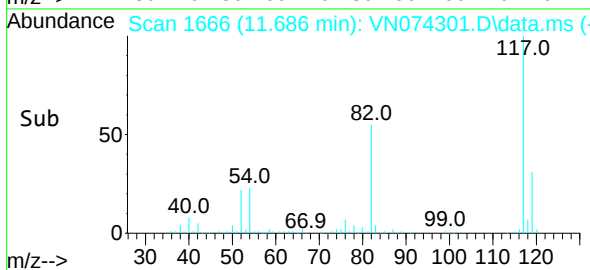
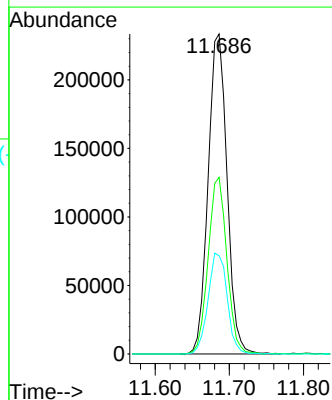
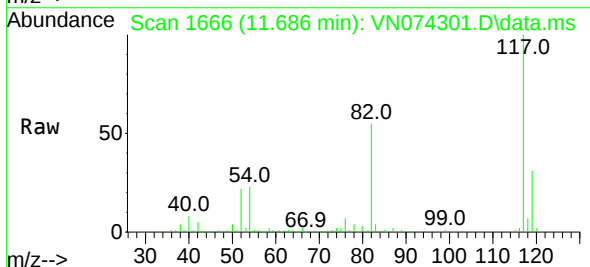
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

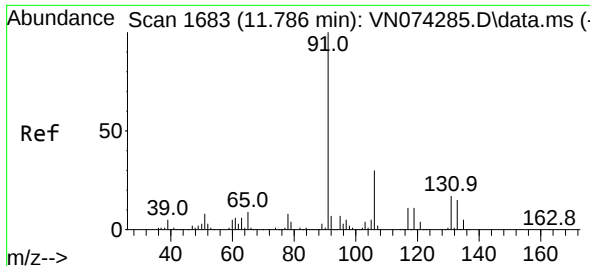
Tgt Ion: 95 Resp: 189443
Ion Ratio Lower Upper
95 100
174 83.1 0.0 167.6
176 77.3 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 117 Resp: 413653
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 30.7 25.4 38.0

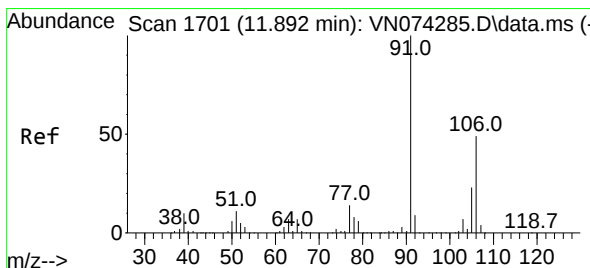
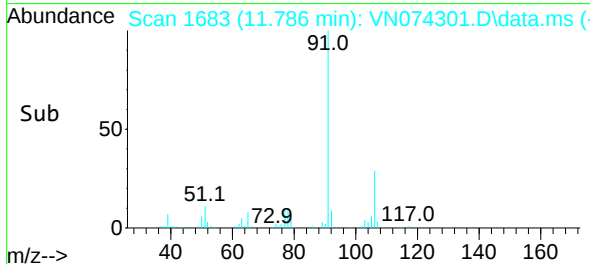
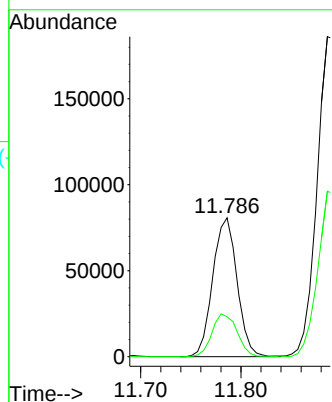
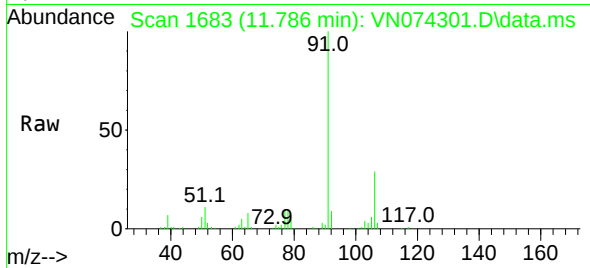




#67
Ethyl Benzene
Concen: 8.176 ug/l
RT: 11.786 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

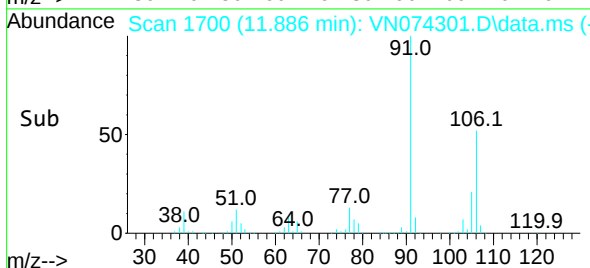
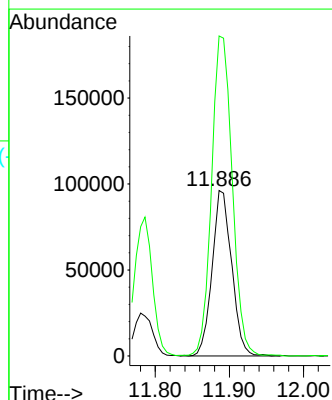
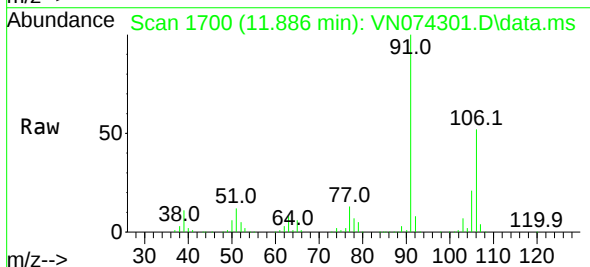
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

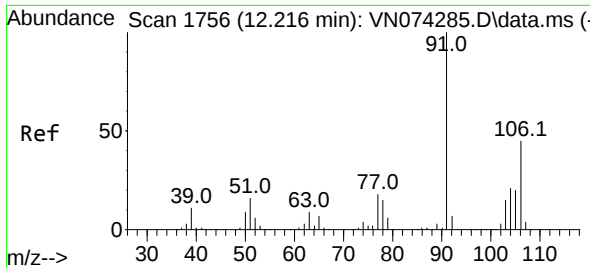
Tgt Ion: 91 Resp: 136291
Ion Ratio Lower Upper
91 100
106 28.7 24.9 37.3



#68
m/p-Xylenes
Concen: 28.355 ug/l
RT: 11.886 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 106 Resp: 176441
Ion Ratio Lower Upper
106 100
91 202.6 158.9 238.3

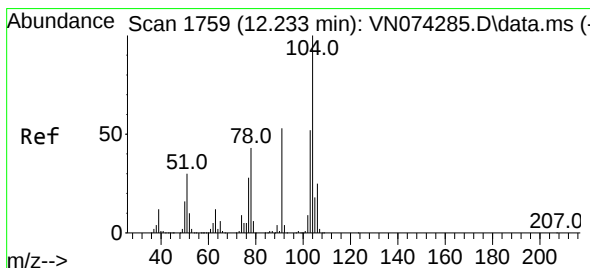
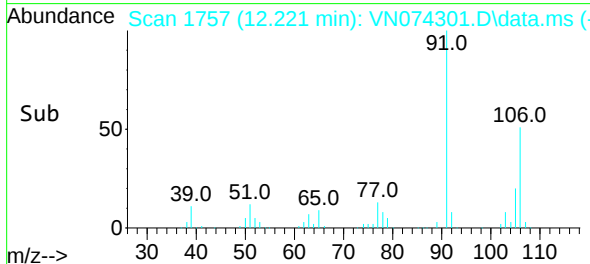
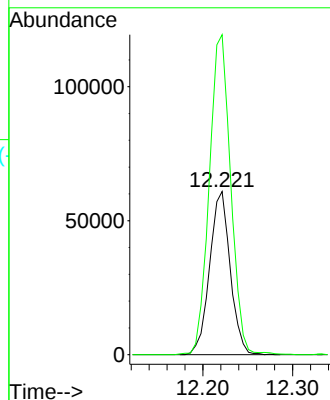
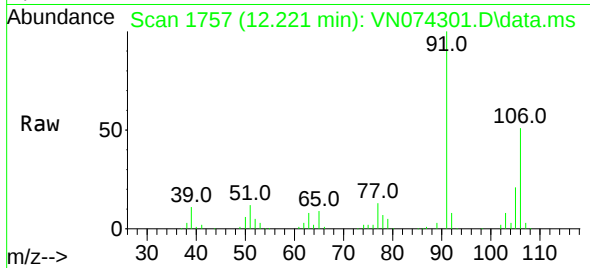




#69
o-Xylene
Concen: 15.597 ug/l
RT: 12.221 min Scan# 1757
Delta R.T. 0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

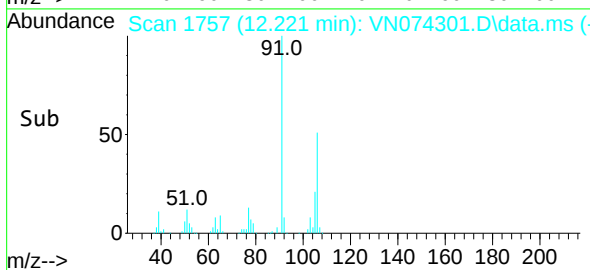
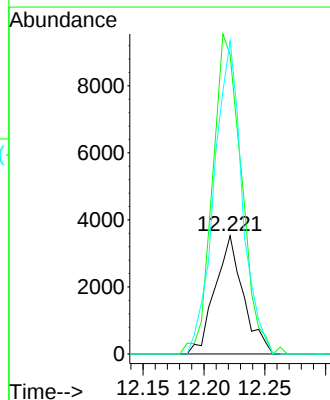
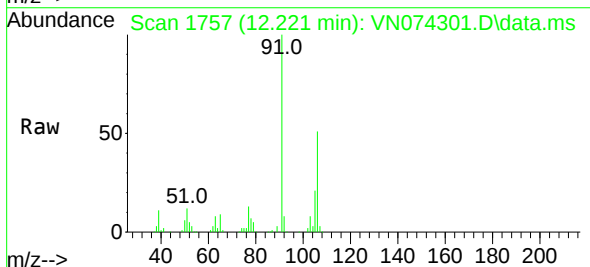
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

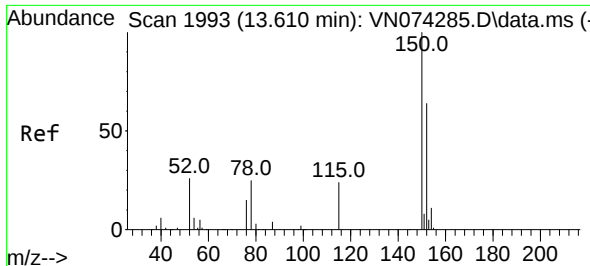
Tgt Ion:106 Resp: 96869
Ion Ratio Lower Upper
106 100
91 204.5 106.0 318.0



#70
Styrene
Concen: 0.571 ug/l
RT: 12.221 min Scan# 1757
Delta R.T. -0.012 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion:104 Resp: 5675
Ion Ratio Lower Upper
104 100
78 278.6 39.5 59.3#
103 263.4 44.0 66.0#

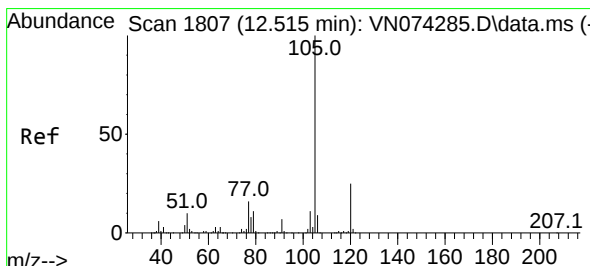
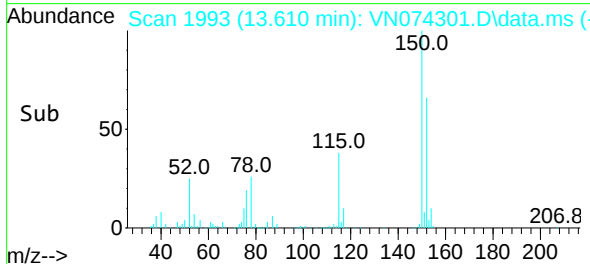
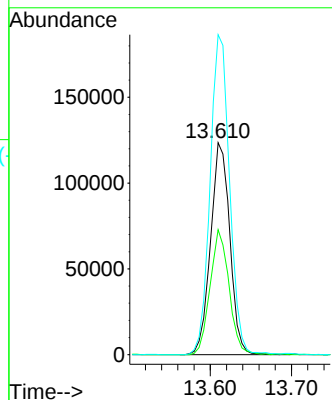
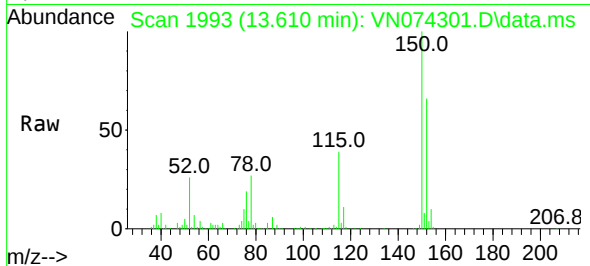




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

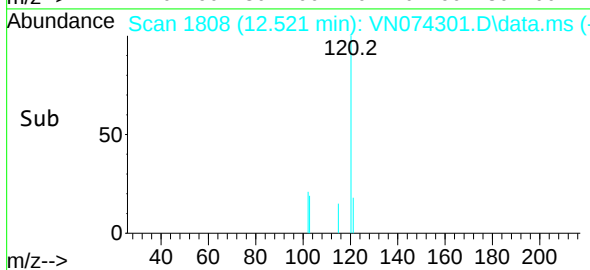
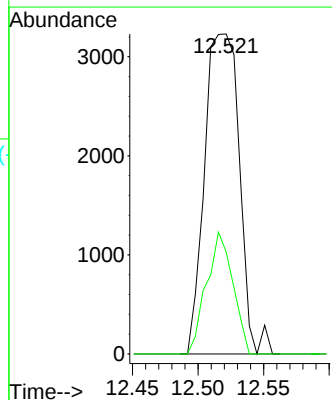
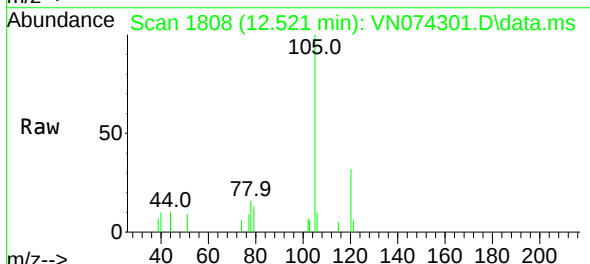
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

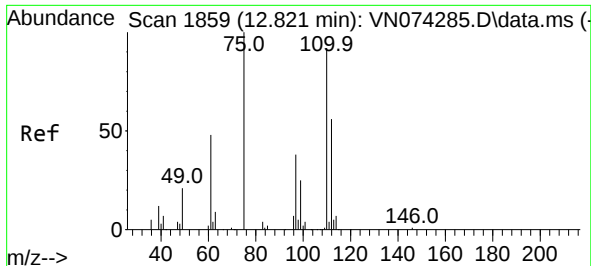
Tgt Ion:152 Resp: 203483
Ion Ratio Lower Upper
152 100
115 58.1 28.9 86.7
150 152.3 0.0 356.2



#73
Isopropylbenzene
Concen: 0.334 ug/l
RT: 12.521 min Scan# 1808
Delta R.T. 0.005 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion:105 Resp: 5958
Ion Ratio Lower Upper
105 100
120 28.8 13.5 40.4

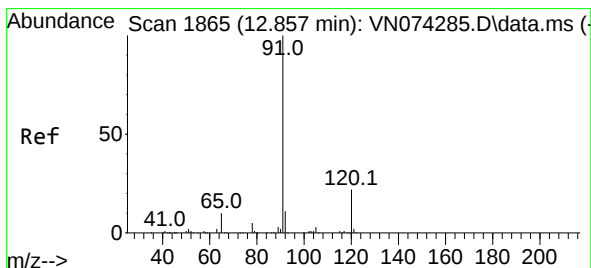
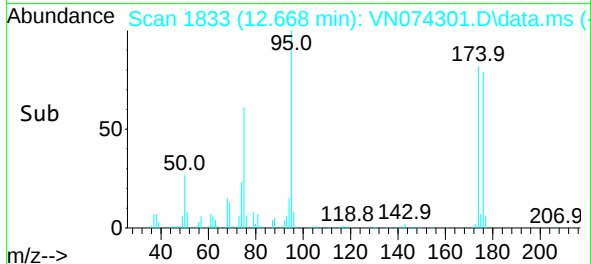
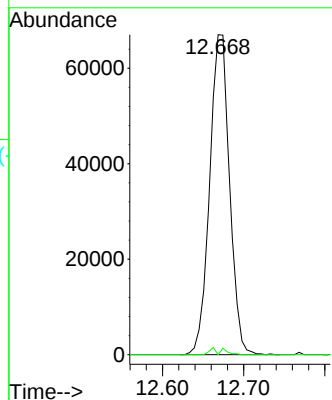
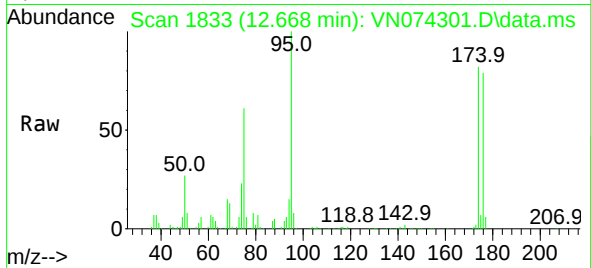




#76
1,2,3-Trichloropropane
Concen: 19.798 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.153 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

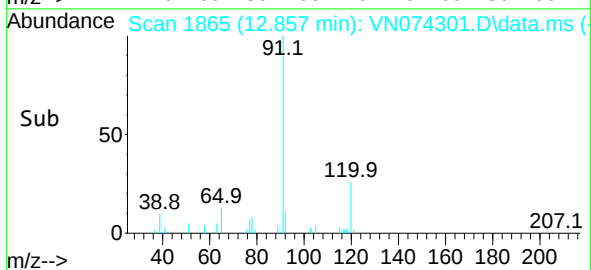
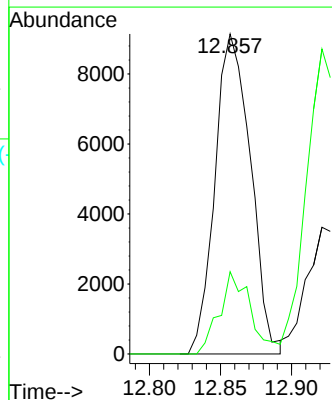
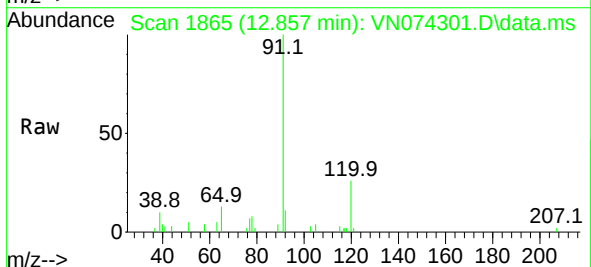
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

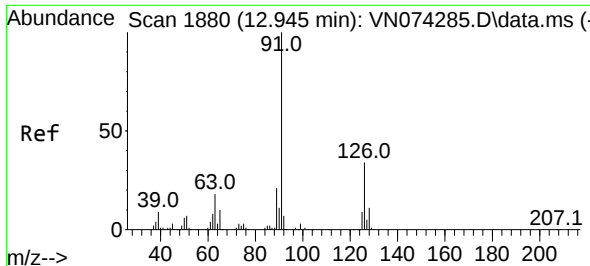
Tgt Ion: 75 Resp: 114095
Ion Ratio Lower Upper
75 100
77 0.7 98.5 295.5#



#78
n-propylbenzene
Concen: 0.782 ug/l
RT: 12.857 min Scan# 1865
Delta R.T. -0.006 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 91 Resp: 15919
Ion Ratio Lower Upper
91 100
120 22.7 11.9 35.5

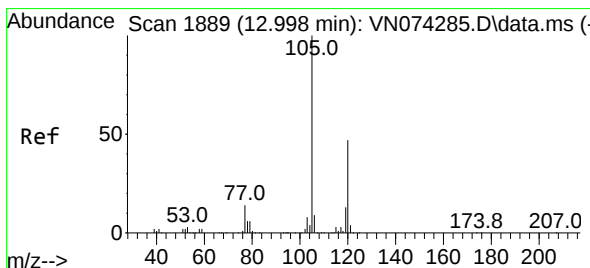
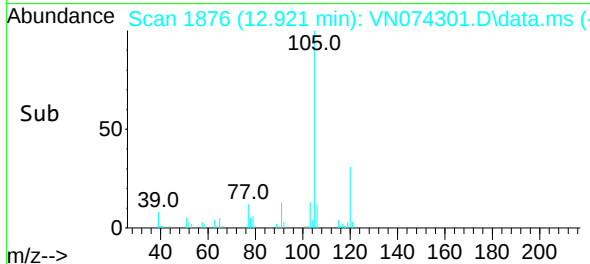
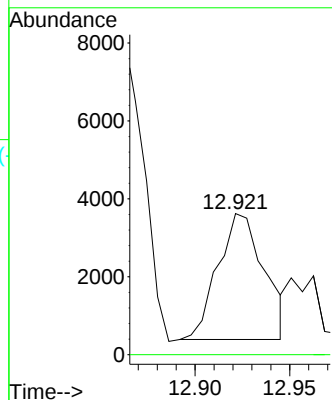
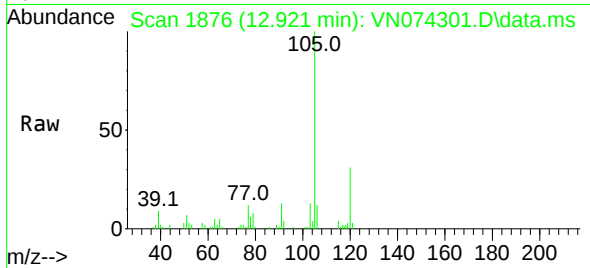




#79
2-Chlorotoluene
Concen: 0.440 ug/l
RT: 12.921 min Scan# 1876
Delta R.T. -0.024 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

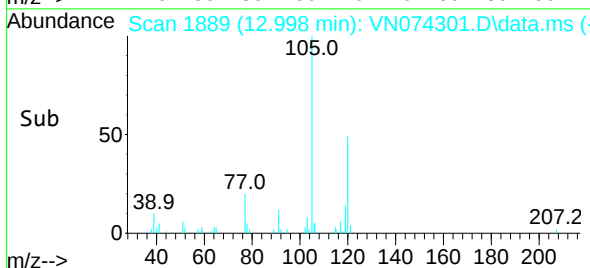
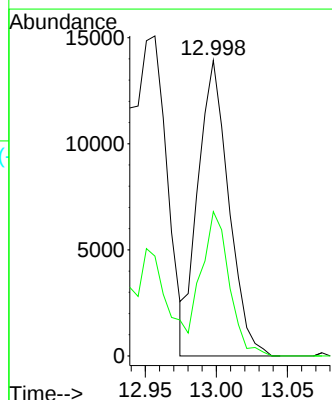
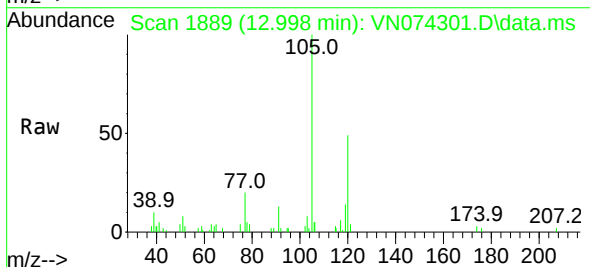
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

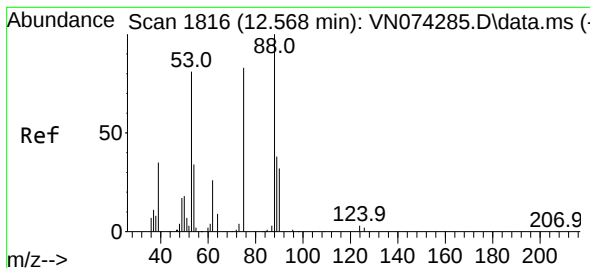
Tgt Ion: 91 Resp: 5507
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#



#80
1,3,5-Trimethylbenzene
Concen: 1.466 ug/l
RT: 12.998 min Scan# 1889
Delta R.T. -0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 105 Resp: 20950
Ion Ratio Lower Upper
105 100
120 44.2 24.9 74.7

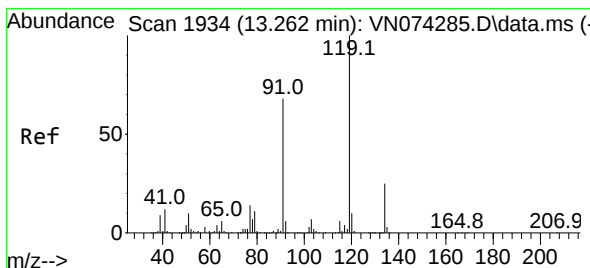
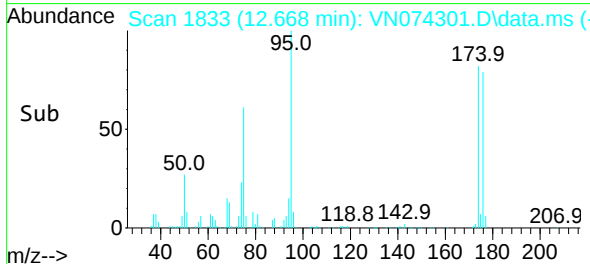
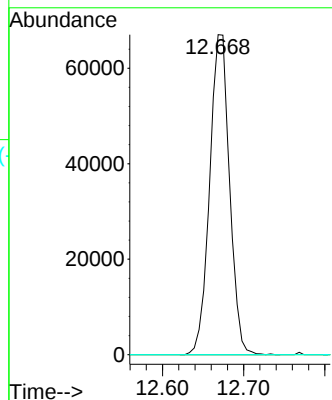
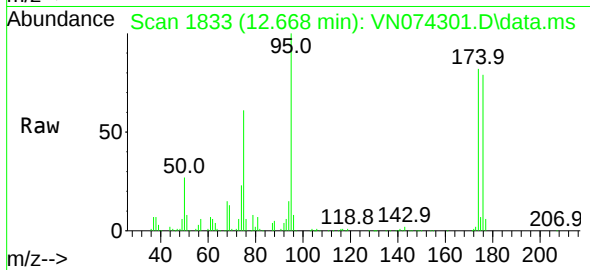




#81
trans-1,4-Dichloro-2-butene
Concen: 64.268 ug/l
RT: 12.668 min Scan# 1816
Delta R.T. 0.105 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

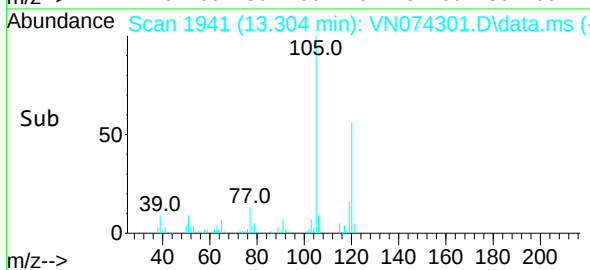
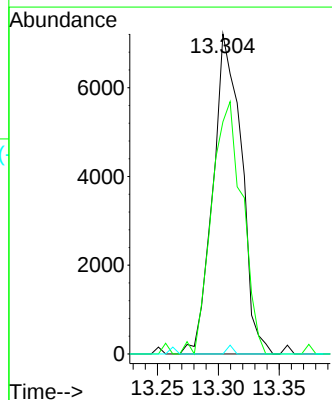
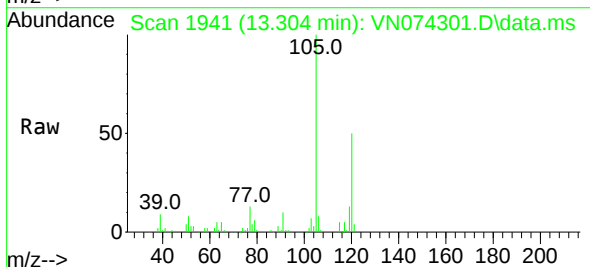
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

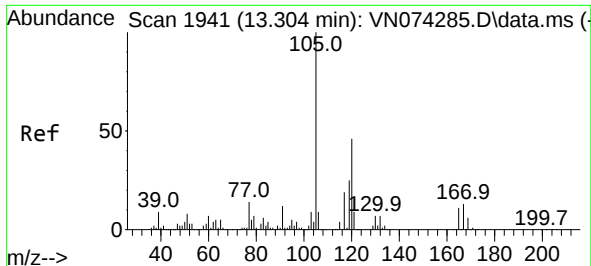
Tgt Ion: 75 Resp: 114095
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#83
tert-Butylbenzene
Concen: 0.905 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. 0.041 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion: 119 Resp: 11736
Ion Ratio Lower Upper
119 100
91 85.3 31.6 94.8
134 0.6 13.7 41.1#

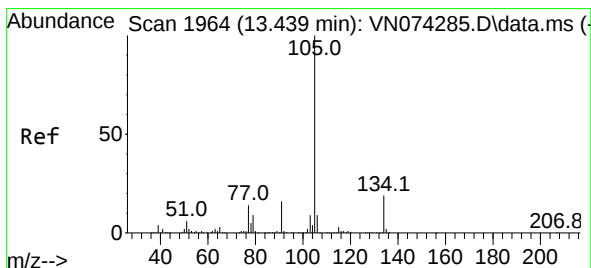
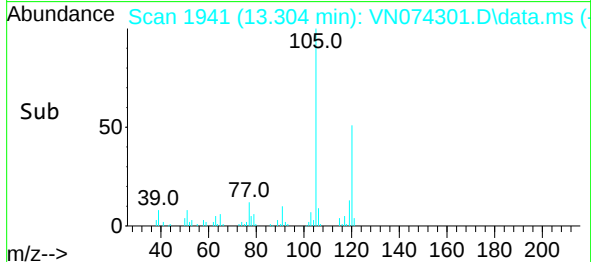
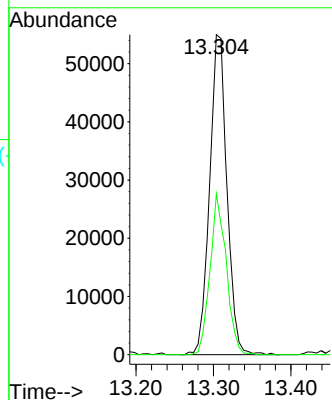
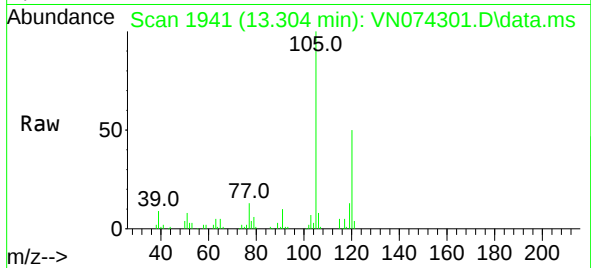




#84
1,2,4-Trimethylbenzene
Concen: 5.905 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. -0.006 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

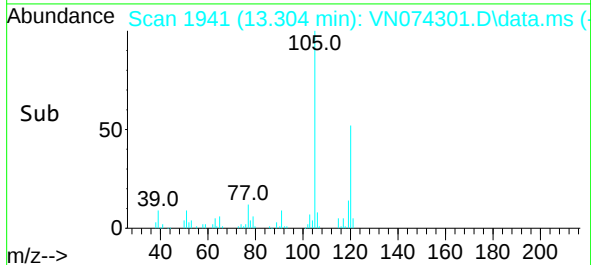
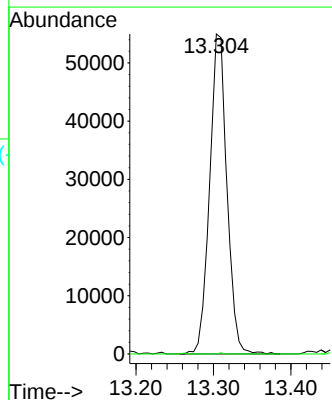
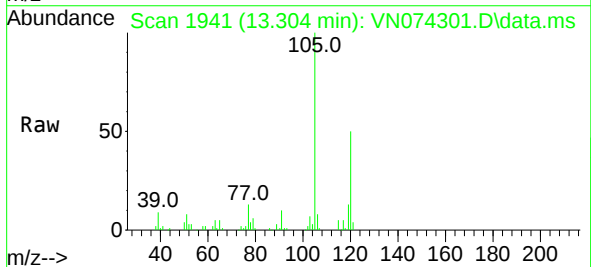
Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

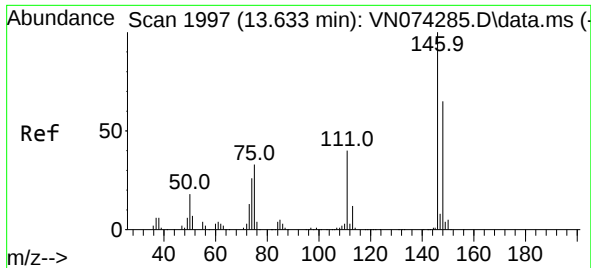
Tgt Ion:105 Resp: 85454
Ion Ratio Lower Upper
105 100
120 47.2 23.3 69.8



#85
sec-Butylbenzene
Concen: 4.720 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. -0.135 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion:105 Resp: 85454
Ion Ratio Lower Upper
105 100
134 0.1 10.4 31.1#

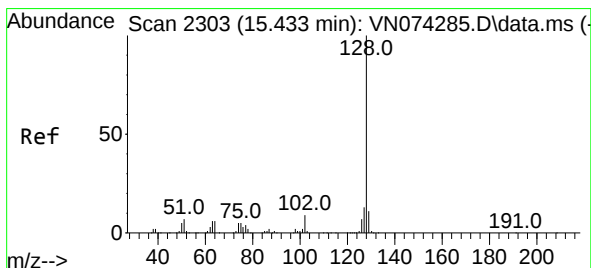
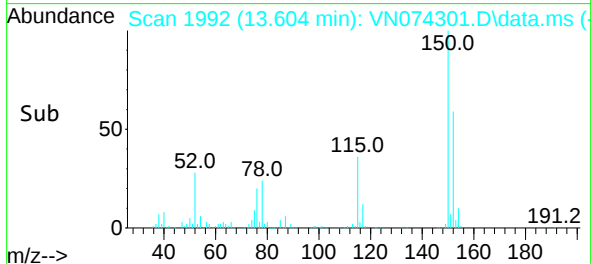
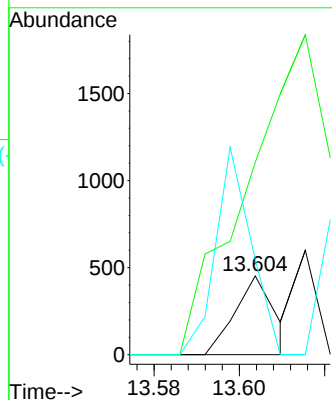
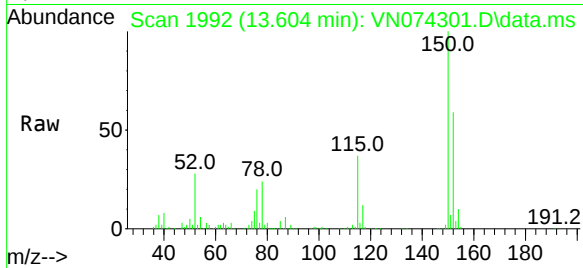




#88
1,4-Dichlorobenzene
Concen: 0.206 ug/l
RT: 13.604 min Scan# 1992
Delta R.T. -0.029 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Instrument :
MSVOA_N
ClientSampleId :
MW-39DL

Tgt Ion:146 Resp: 294
Ion Ratio Lower Upper
146 100
111 0.0 19.1 57.1#
148 234.7 31.4 94.3#



#95
Naphthalene
Concen: 2.813 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN074301.D
Acq: 02 Sep 2022 21:48

Tgt Ion:128 Resp: 30657
Ion Ratio Lower Upper
128 100
127 15.3 10.3 15.5
129 11.1 8.6 13.0

