

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080222\
 Data File : VN073696.D
 Acq On : 02 Aug 2022 18:53
 Operator : JC\MD
 Sample : N3971-09 100X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14R

Quant Time: Aug 03 02:10:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

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

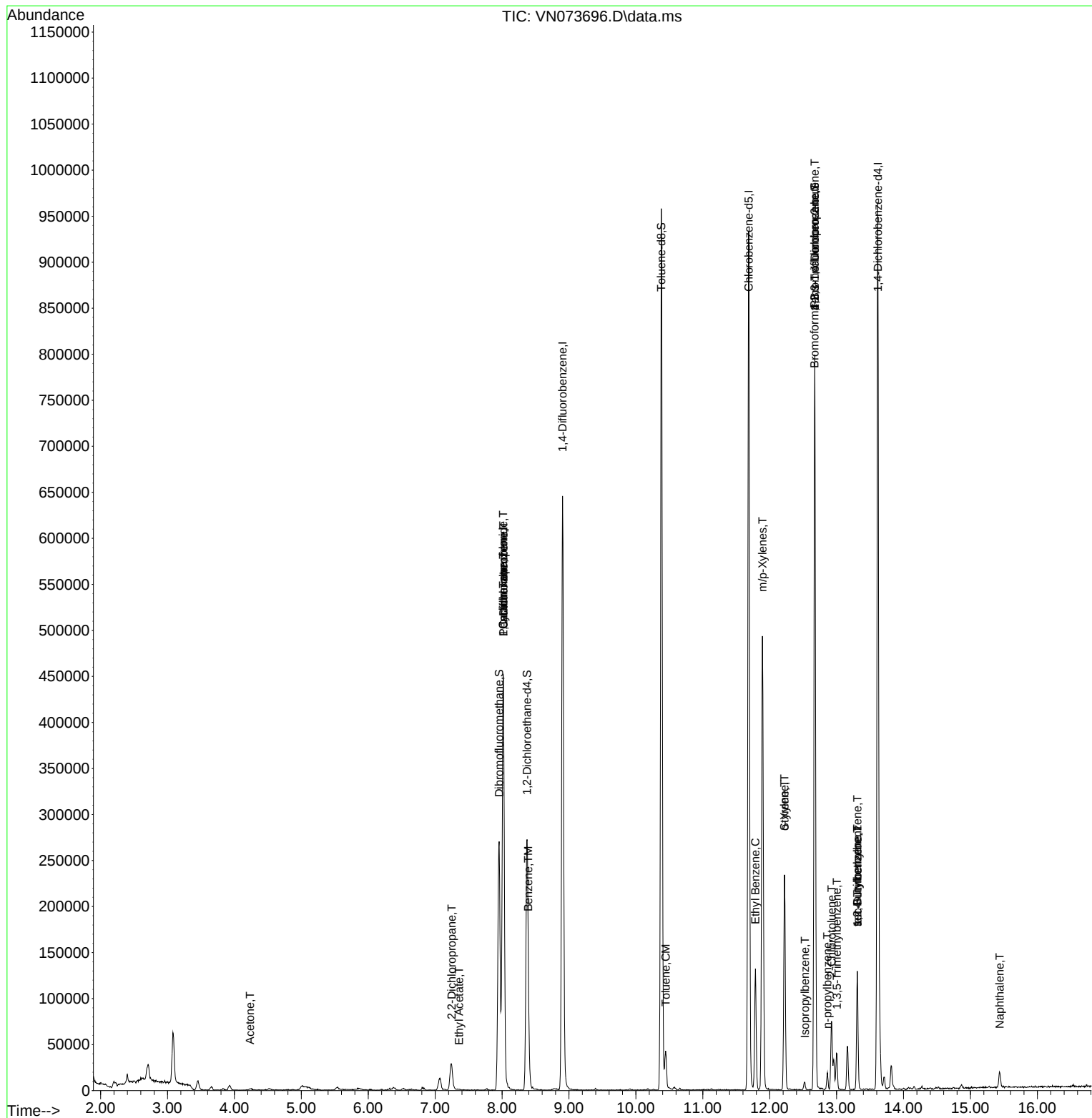
Internal Standards						
1) Pentafluorobenzene	8.022	168	362436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	583796	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	557641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	268901	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	213164	48.261	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.520%		
35) Dibromofluoromethane	7.957	113	198629	54.183	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.360%		
50) Toluene-d8	10.380	98	663958	46.026	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.060%		
62) 4-Bromofluorobenzene	12.674	95	260990	53.440	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.880%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	773	Below Cal	#	87
6) Chloroethane	3.057	64	1263	Below Cal	#	42
16) Acetone	4.234	43	3203	1.350	ug/l #	80
20) Methylene Chloride	5.016	84	3199	Below Cal	#	75
26) 2,2-Dichloropropane	7.245	77	2114	0.377	ug/l #	53
31) Cyclohexane	8.016	56	10444	1.588	ug/l #	22
36) 1,1-Dichloropropene	8.022	75	27463	5.256	ug/l #	47
37) Ethyl Acetate	7.357	43	1448	0.210	ug/l #	73
38) Carbon Tetrachloride	8.016	117	33237	6.263	ug/l #	17
40) Benzene	8.392	78	43435	2.560	ug/l	100
52) Toluene	10.445	92	16154	1.559	ug/l	94
67) Ethyl Benzene	11.786	91	90942	4.551	ug/l	98
68) m/p-Xylenes	11.892	106	160569	21.068	ug/l	99
69) o-Xylene	12.222	106	64110	8.628	ug/l	99
70) Styrene	12.222	104	4003	0.337	ug/l #	1
71) Bromoform	12.669	173	1468	0.419	ug/l #	28
73) Isopropylbenzene	12.527	105	5507	0.280	ug/l	89
76) 1,2,3-Trichloropropane	12.674	75	133750	25.577	ug/l #	1
78) n-propylbenzene	12.863	91	14214	0.642	ug/l	99
79) 2-Chlorotoluene	12.927	91	7050	0.510	ug/l #	40
80) 1,3,5-Trimethylbenzene	13.004	105	22345	1.379	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.674	75	133750	64.459	ug/l #	10
83) tert-Butylbenzene	13.310	119	9128	0.636	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.310	105	69803	4.382	ug/l	98
85) sec-Butylbenzene	13.310	105	69803	3.520	ug/l #	56
95) Naphthalene	15.439	128	16475	1.078	ug/l	97

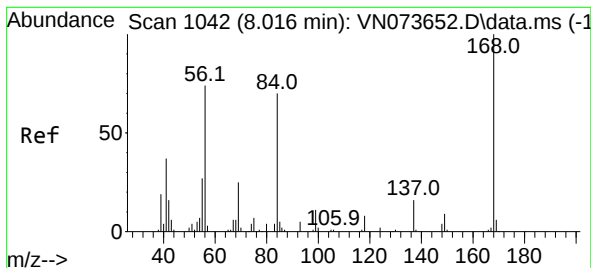
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 29 02:20:25 2022
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.022 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

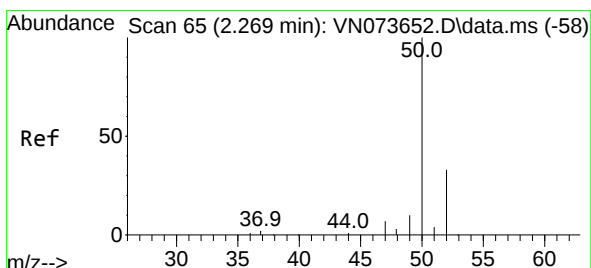
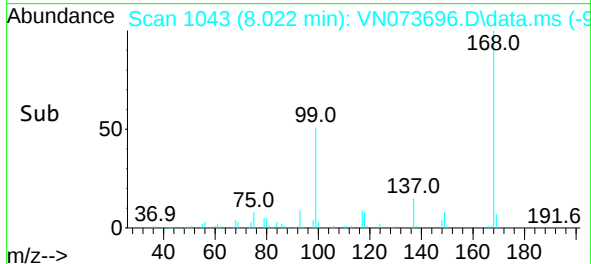
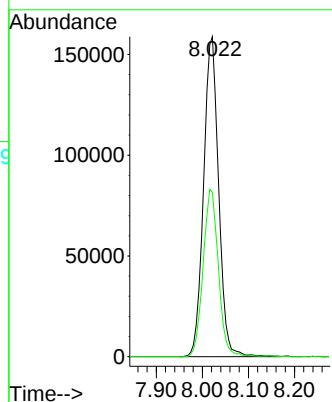
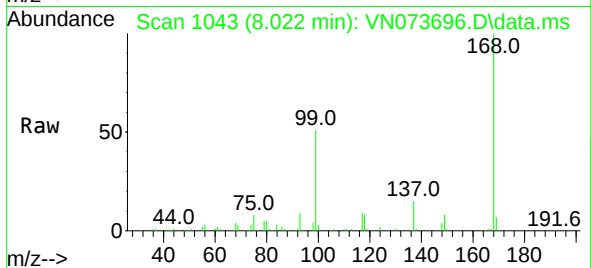
MW-14R

Tgt Ion:168 Resp: 362436

Ion Ratio Lower Upper

168 100

99 51.4 42.3 63.5



#3

Chloromethane

Concen: Below Cal

RT: 2.263 min Scan# 64

Delta R.T. -0.006 min

Lab File: VN073696.D

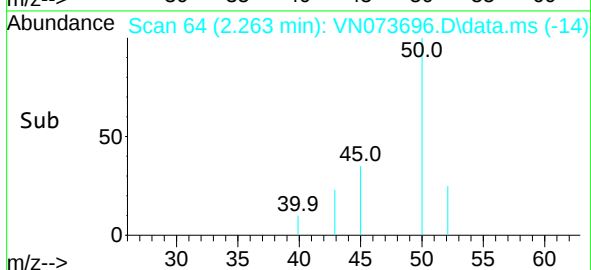
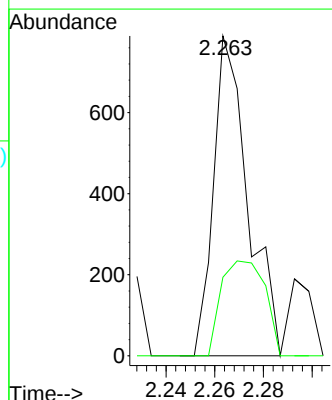
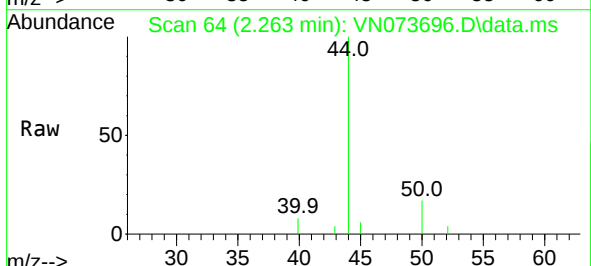
Acq: 02 Aug 2022 18:53

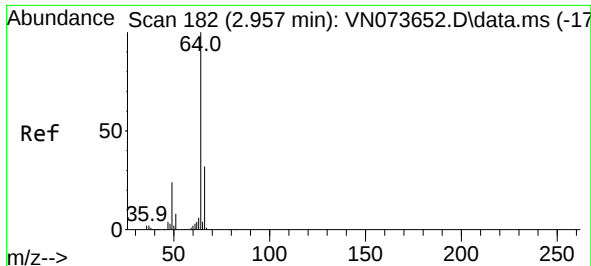
Tgt Ion: 50 Resp: 773

Ion Ratio Lower Upper

50 100

52 24.6 25.7 38.5#

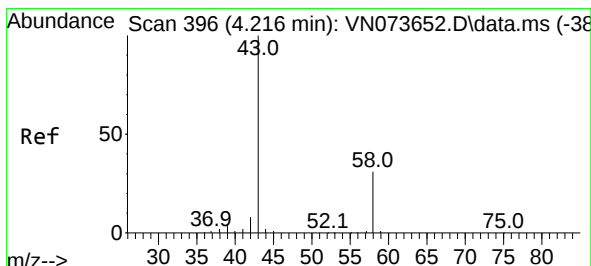
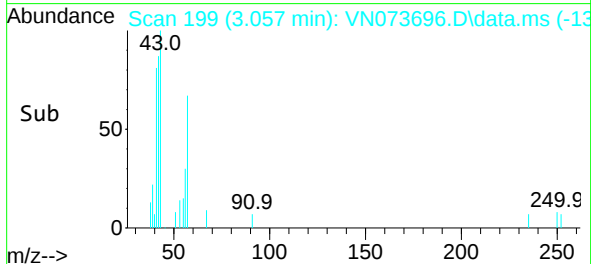
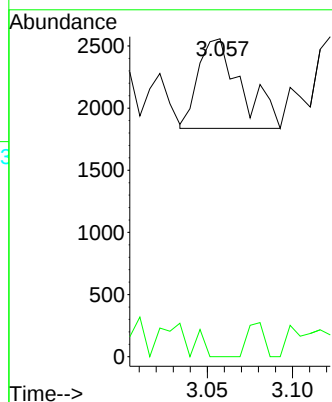
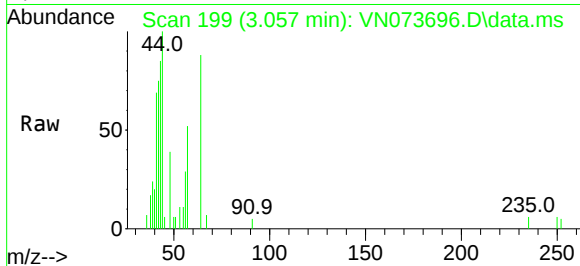




#6
Chloroethane
Concen: Below Cal
RT: 3.057 min Scan# 199
Delta R.T. 0.100 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

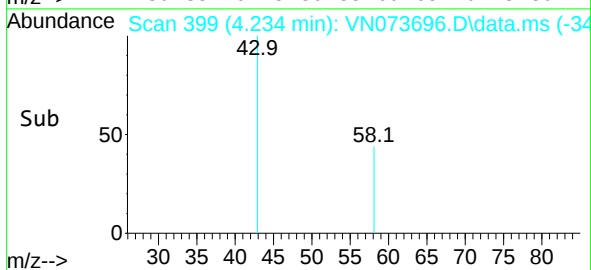
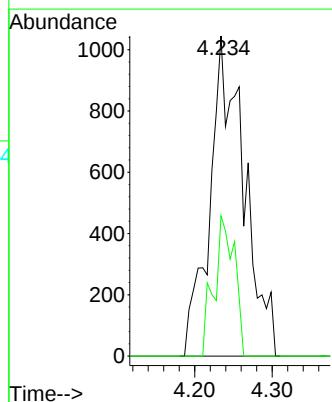
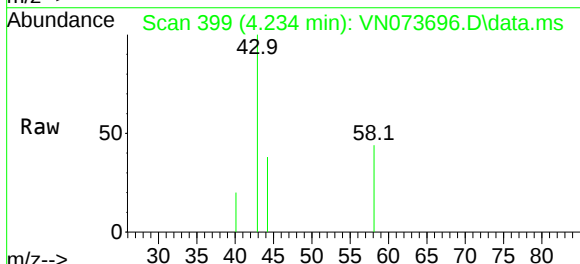
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

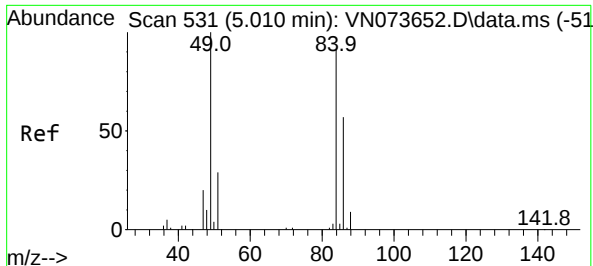
Tgt Ion: 64 Resp: 1263
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#16
Acetone
Concen: 1.350 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 43 Resp: 3203
Ion Ratio Lower Upper
43 100
58 43.8 26.0 39.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.016 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

MW-14R

Tgt Ion: 84 Resp: 3199

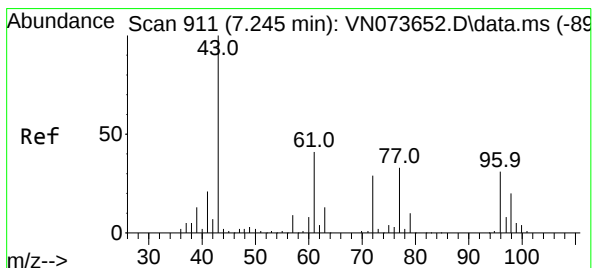
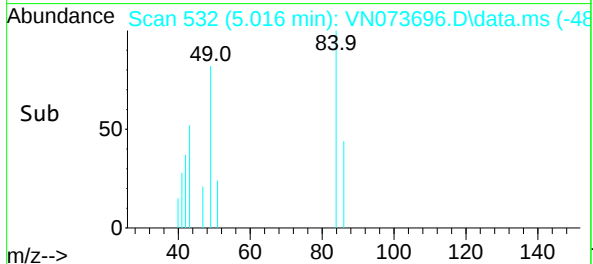
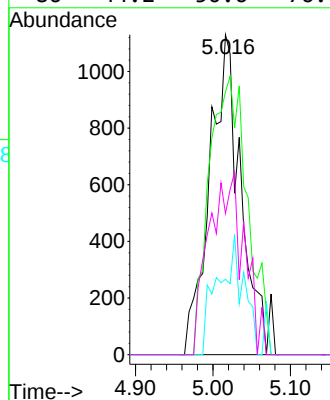
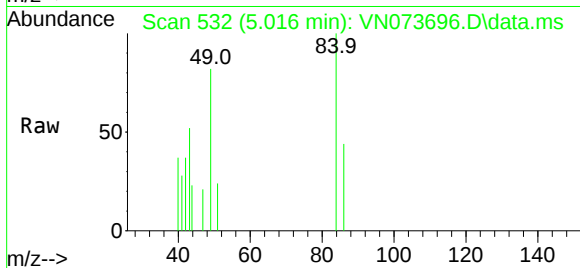
Ion Ratio Lower Upper

84 100

49 82.2 88.3 132.5#

51 23.5 28.2 42.2#

86 44.2 50.6 76.0#



#26

2,2-Dichloropropane

Concen: 0.377 ug/l

RT: 7.245 min Scan# 911

Delta R.T. -0.006 min

Lab File: VN073696.D

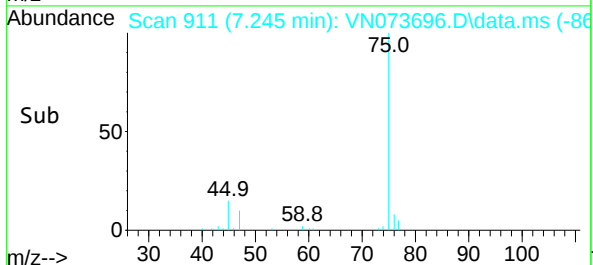
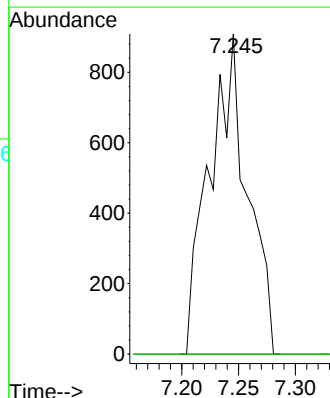
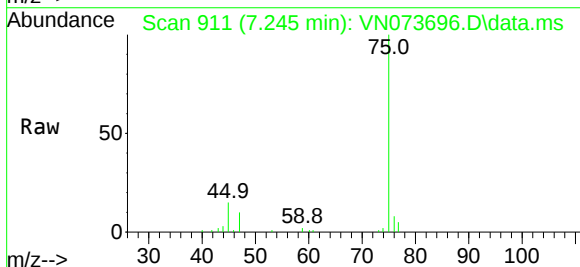
Acq: 02 Aug 2022 18:53

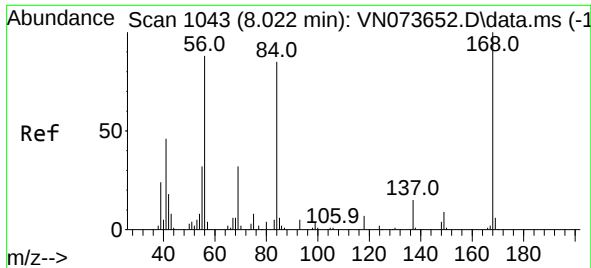
Tgt Ion: 77 Resp: 2114

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#

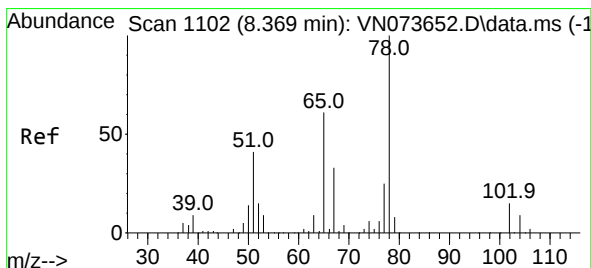
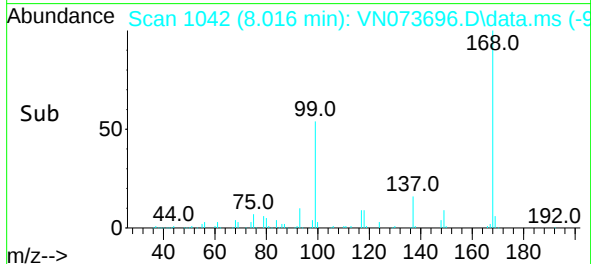
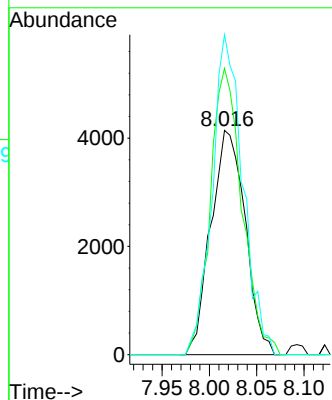
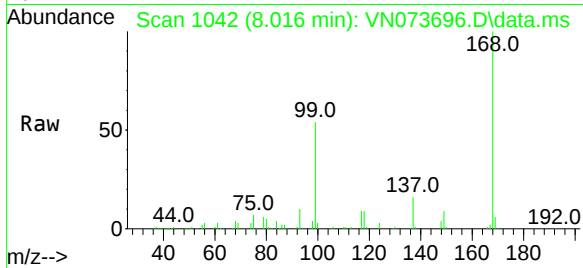




#31
Cyclohexane
Concen: 1.588 ug/l
RT: 8.016 min Scan# 1103
Delta R.T. -0.006 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

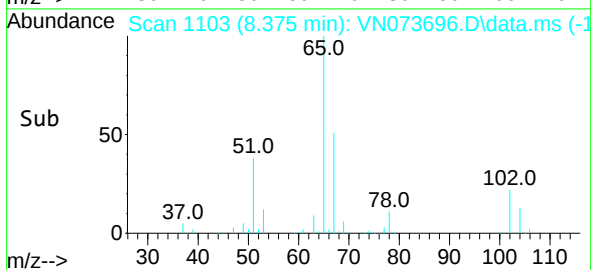
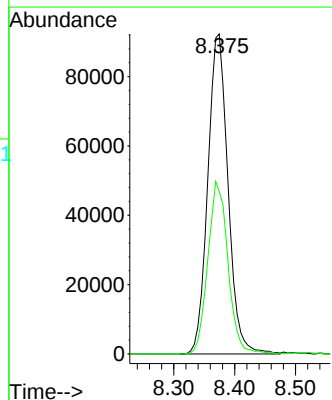
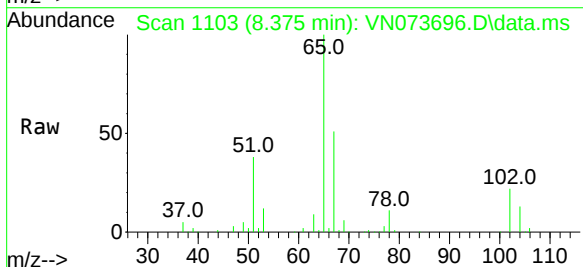
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

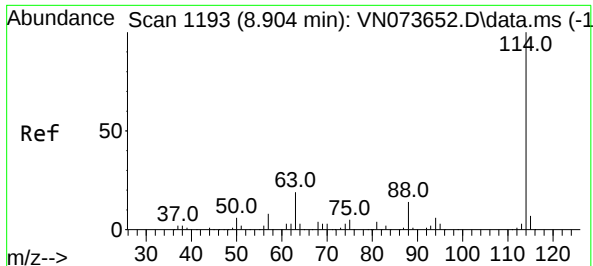
Tgt Ion: 56 Resp: 10444
Ion Ratio Lower Upper
56 100
69 127.7 27.8 41.8#
84 142.7 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 48.261 ug/l
RT: 8.375 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 65 Resp: 213164
Ion Ratio Lower Upper
65 100
67 53.7 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: VN073696.D

Acq: 02 Aug 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

MW-14R

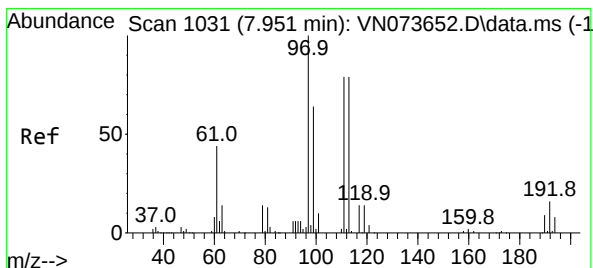
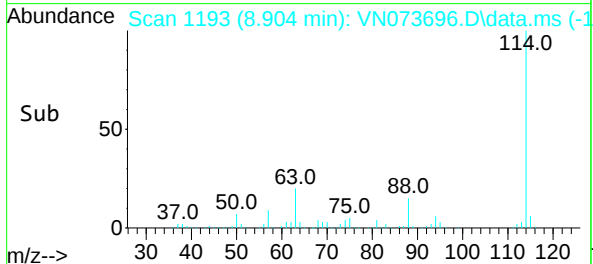
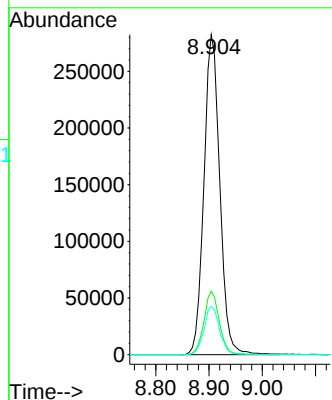
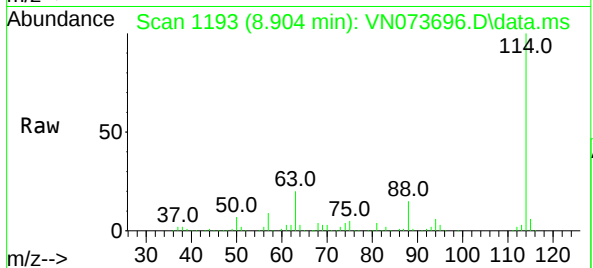
Tgt Ion:114 Resp: 583796

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

88 15.2 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.183 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

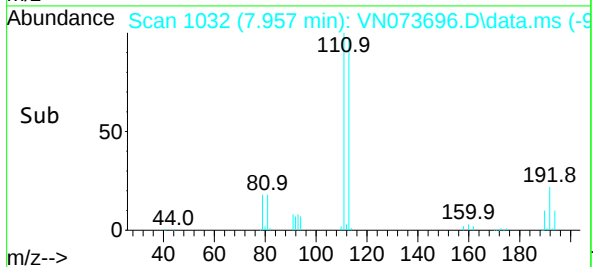
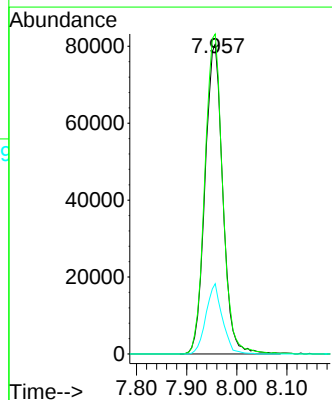
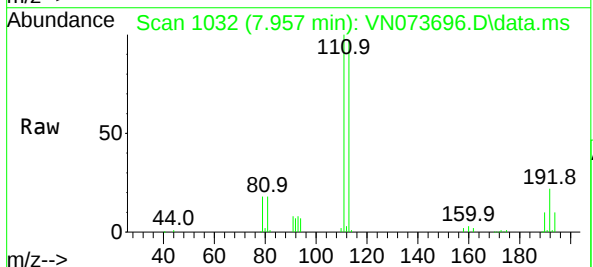
Tgt Ion:113 Resp: 198629

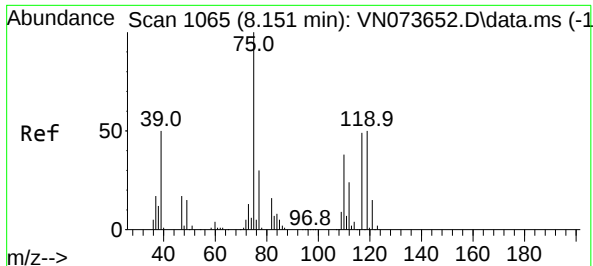
Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.0

192 20.9 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.256 ug/l

RT: 8.022 min Scan# 1

Delta R.T. -0.129 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

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ClientSampleId :

MW-14R

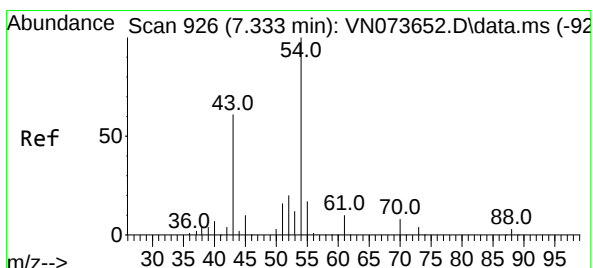
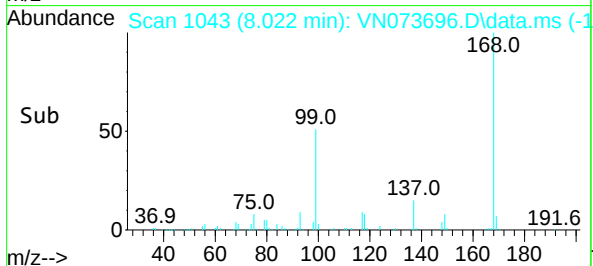
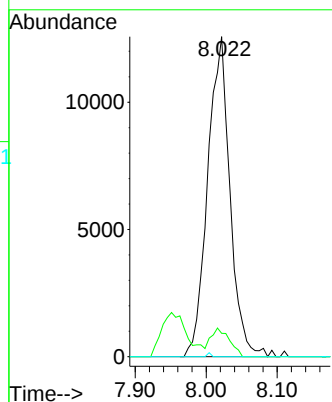
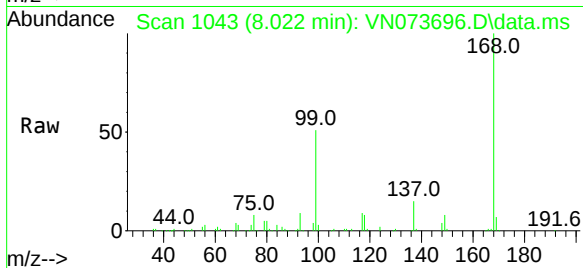
Tgt Ion: 75 Resp: 27463

Ion Ratio Lower Upper

75 100

110 7.5 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 0.210 ug/l

RT: 7.357 min Scan# 930

Delta R.T. 0.018 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

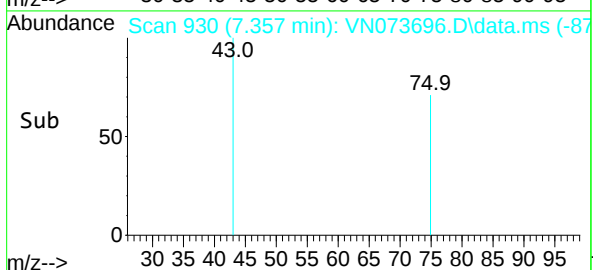
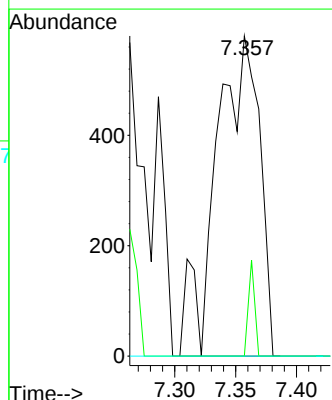
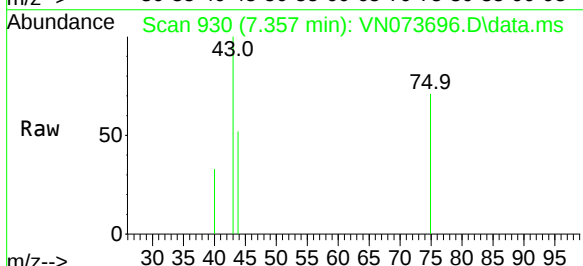
Tgt Ion: 43 Resp: 1448

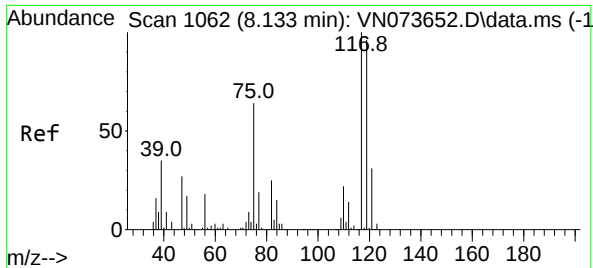
Ion Ratio Lower Upper

43 100

61 4.2 11.8 17.6#

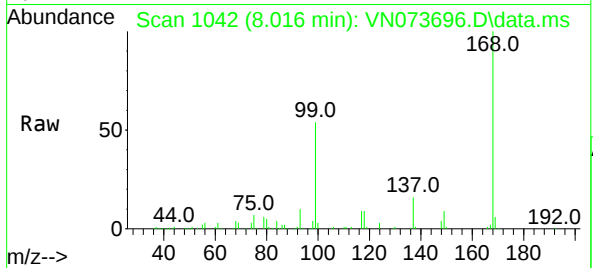
70 0.0 9.3 13.9#



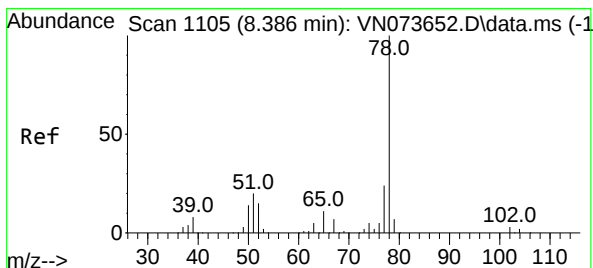
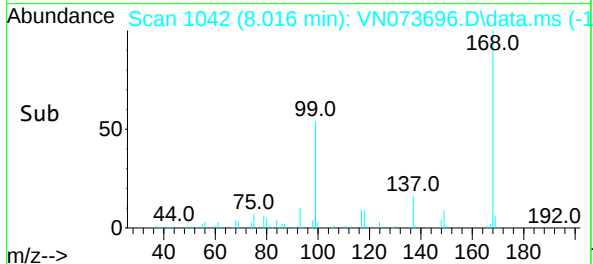
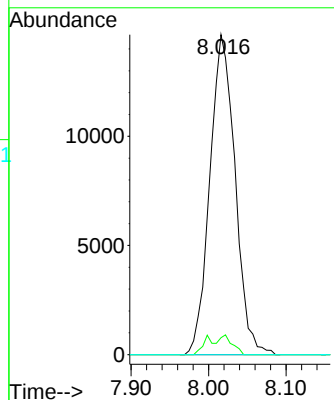


#38
Carbon Tetrachloride
Concen: 6.263 ug/l
RT: 8.016 min Scan# 1106
Delta R.T. -0.118 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Instrument :
MSVOA_N
ClientSampleId :
MW-14R

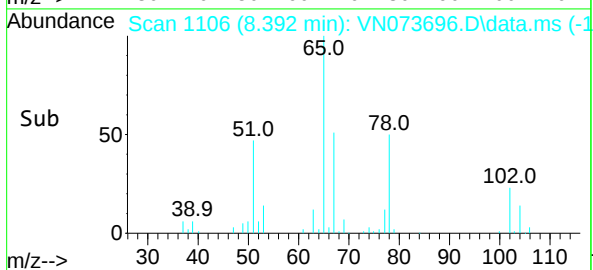
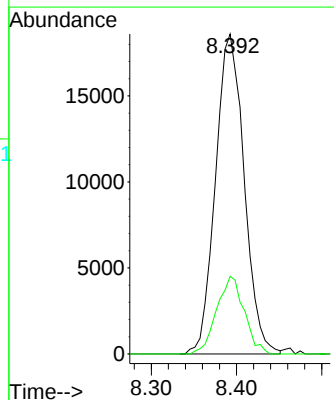
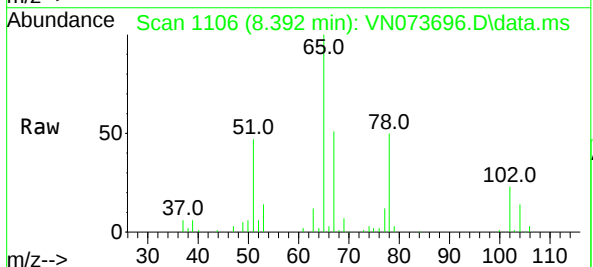


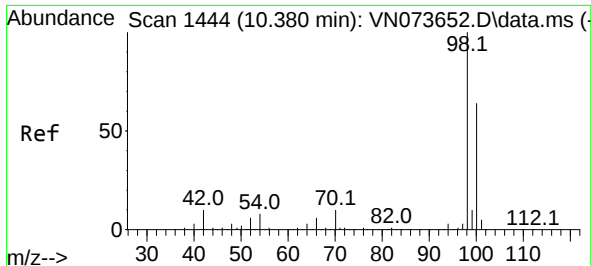
Tgt Ion:117 Resp: 33237
Ion Ratio Lower Upper
117 100
119 5.3 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 2.560 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 78 Resp: 43435
Ion Ratio Lower Upper
78 100
77 24.3 19.4 29.0

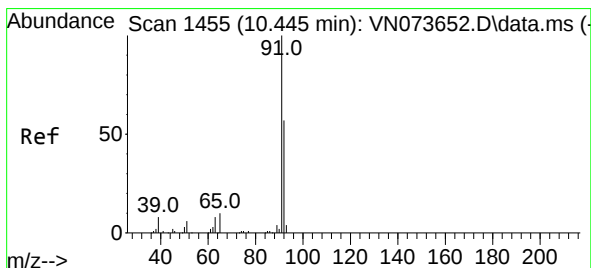
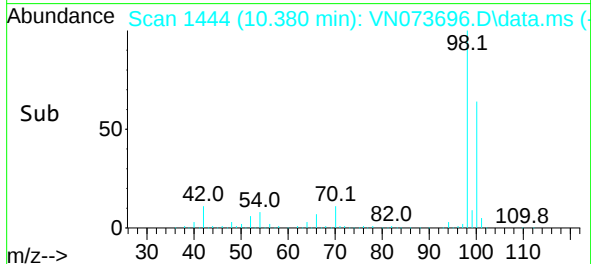
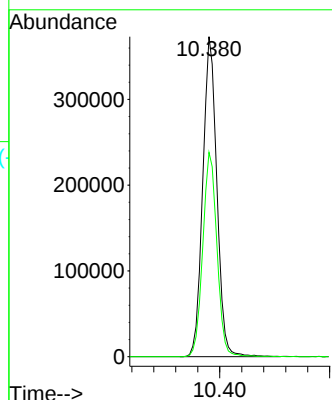
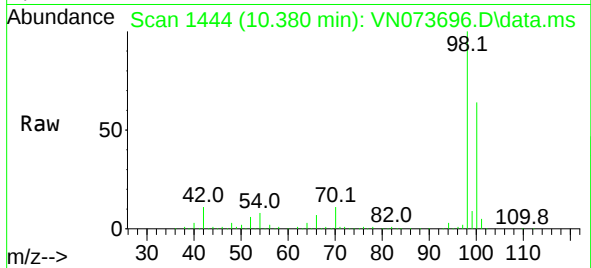




#50
Toluene-d8
Concen: 46.026 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

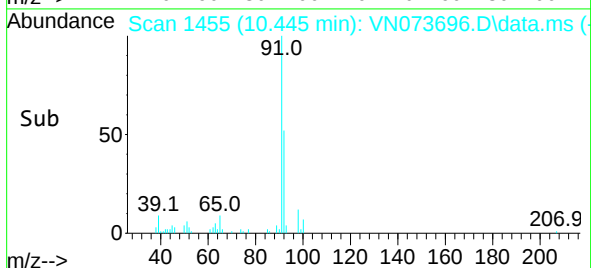
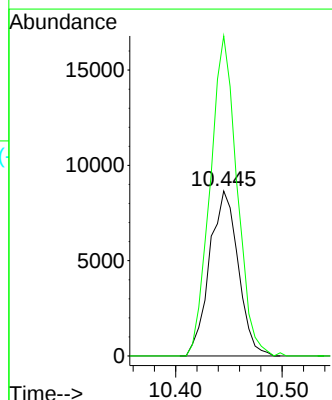
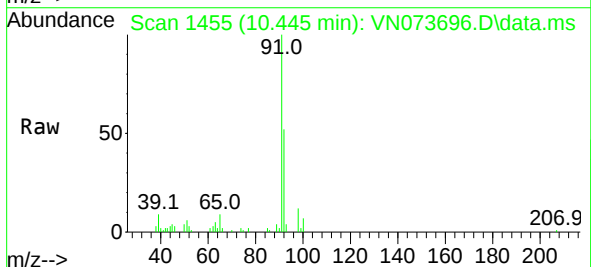
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

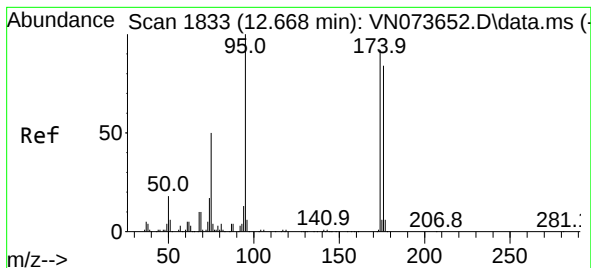
Tgt Ion: 98 Resp: 663958
Ion Ratio Lower Upper
98 100
100 64.3 52.6 78.8



#52
Toluene
Concen: 1.559 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 92 Resp: 16154
Ion Ratio Lower Upper
92 100
91 182.0 138.6 207.8

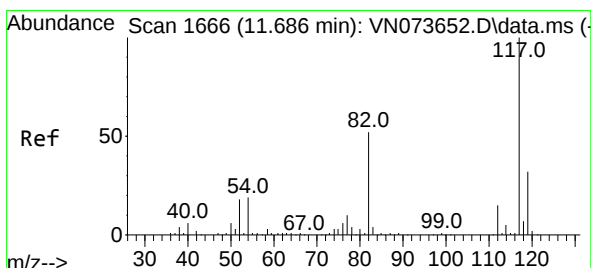
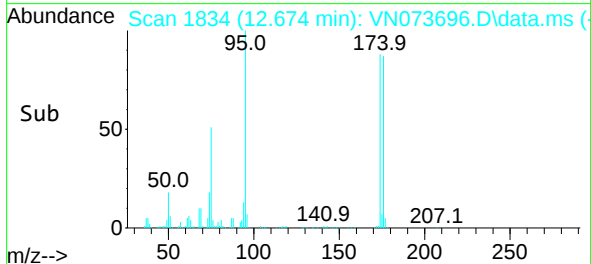
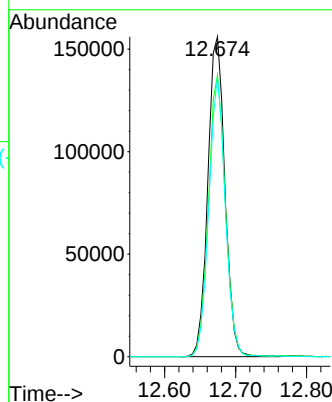
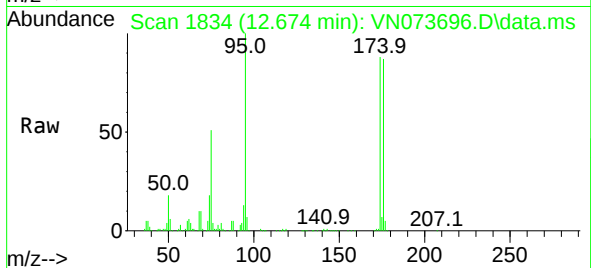




#62
4-Bromofluorobenzene
Concen: 53.440 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

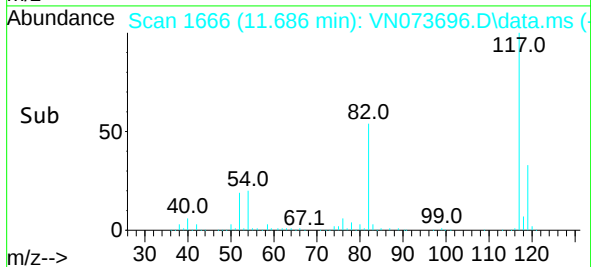
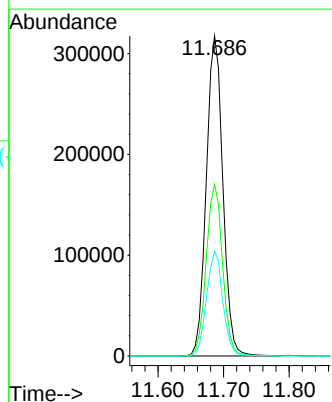
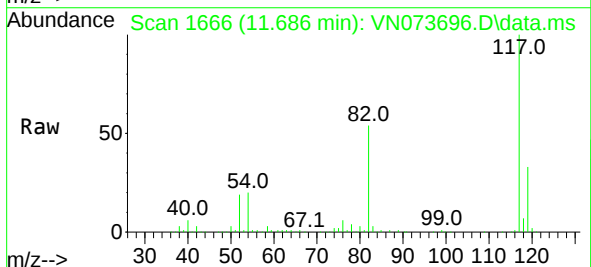
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

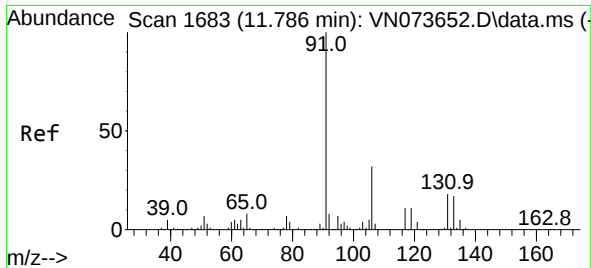
Tgt Ion: 95 Resp: 260990
Ion Ratio Lower Upper
95 100
174 87.7 0.0 167.6
176 84.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 117 Resp: 557641
Ion Ratio Lower Upper
117 100
82 53.6 44.2 66.2
119 32.9 25.4 38.0

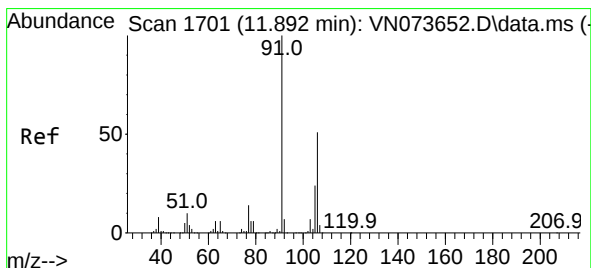
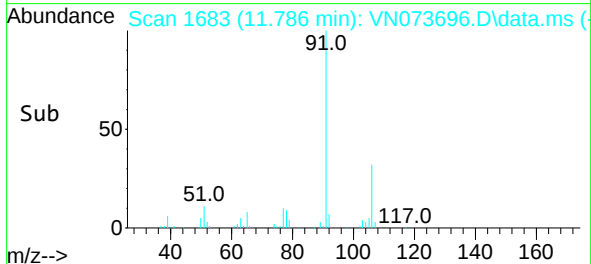
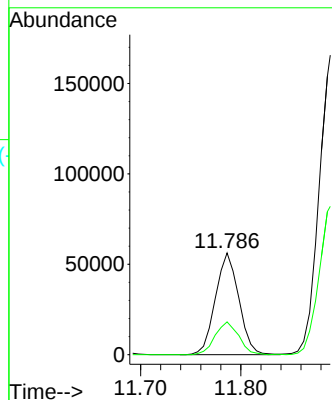
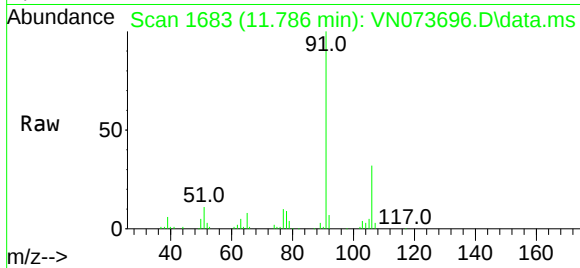




#67
Ethyl Benzene
Concen: 4.551 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

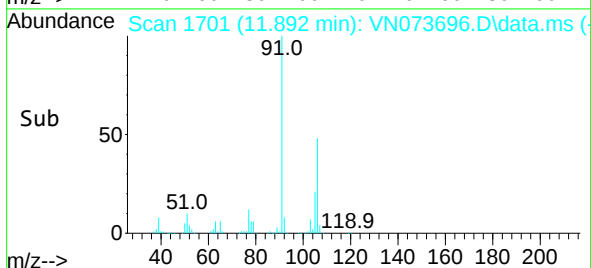
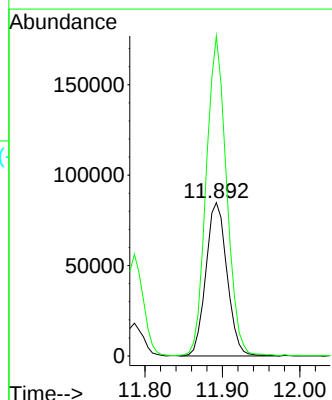
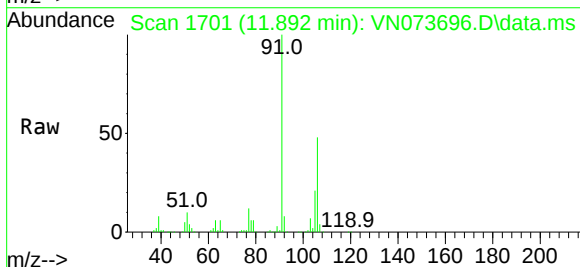
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

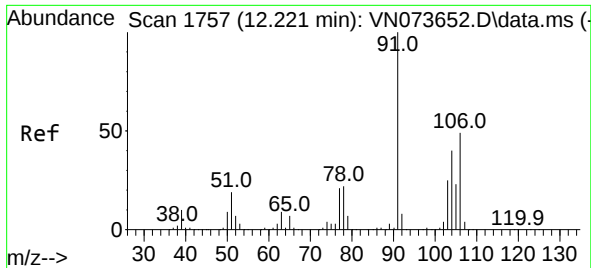
Tgt Ion: 91 Resp: 90942
Ion Ratio Lower Upper
91 100
106 32.2 24.9 37.3



#68
m/p-Xylenes
Concen: 21.068 ug/l
RT: 11.892 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 106 Resp: 160569
Ion Ratio Lower Upper
106 100
91 200.4 158.9 238.3

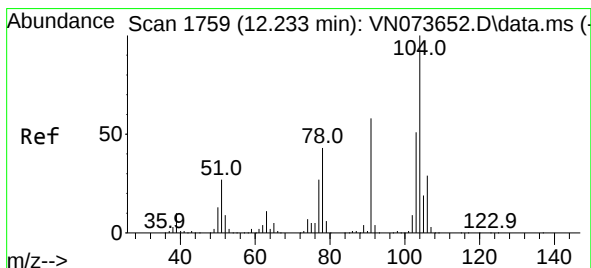
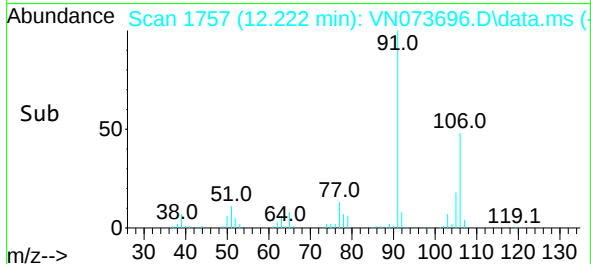
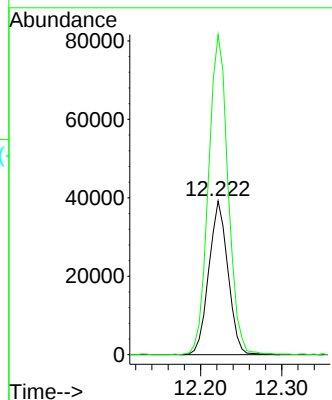
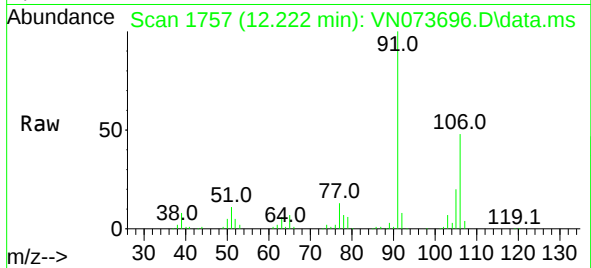




#69
o-Xylene
Concen: 8.628 ug/l
RT: 12.222 min Scan# 1757
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

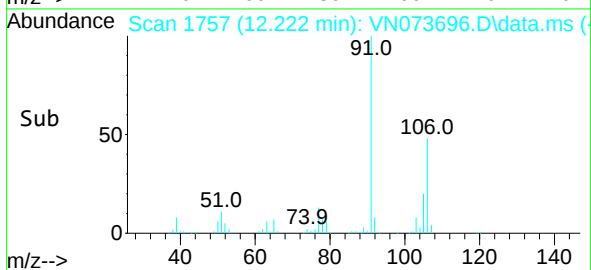
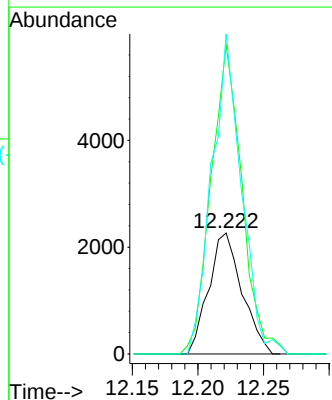
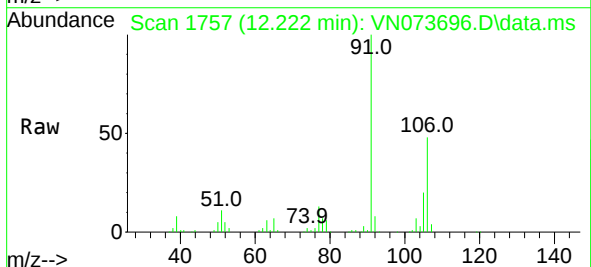
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

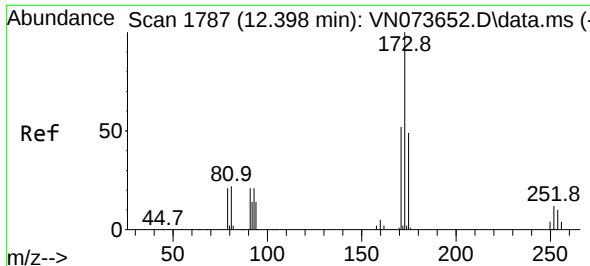
Tgt Ion:106 Resp: 64110
Ion Ratio Lower Upper
106 100
91 214.2 106.0 318.0



#70
Styrene
Concen: 0.337 ug/l
RT: 12.222 min Scan# 1757
Delta R.T. -0.011 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion:104 Resp: 4003
Ion Ratio Lower Upper
104 100
78 237.3 39.5 59.3#
103 235.6 44.0 66.0#

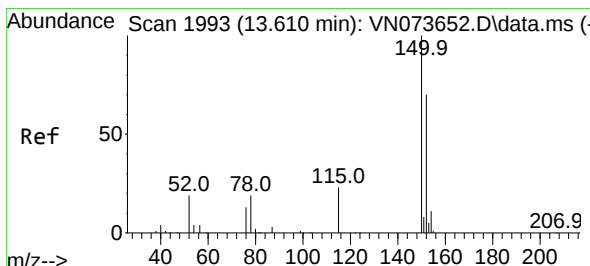
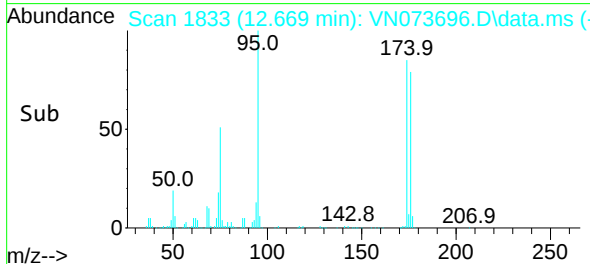
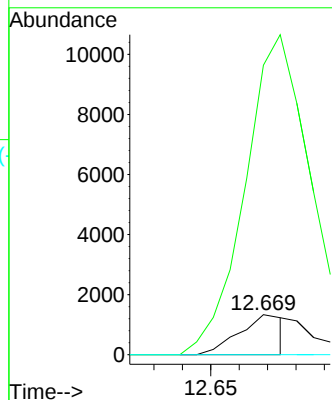
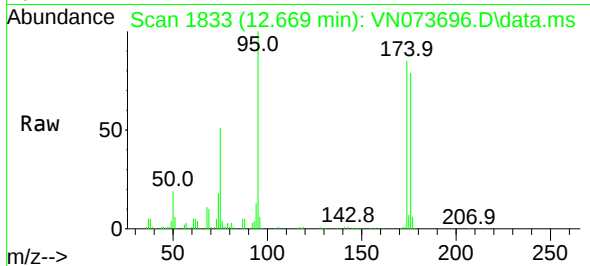




#71
Bromoform
Concen: 0.419 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

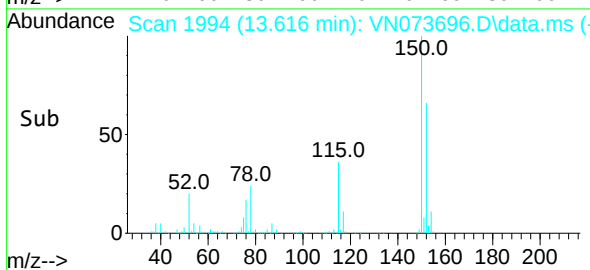
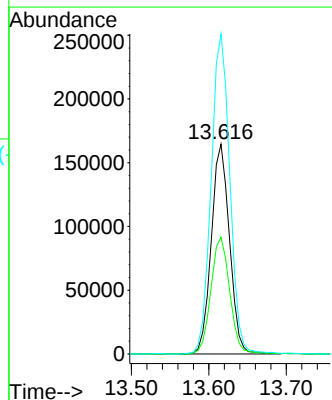
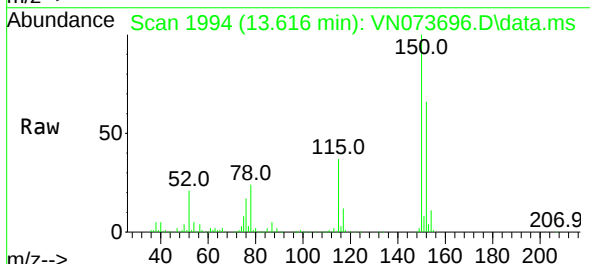
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

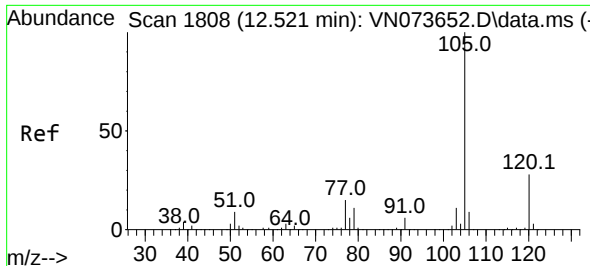
Tgt Ion:173 Resp: 1468
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion:152 Resp: 268901
Ion Ratio Lower Upper
152 100
115 57.6 28.9 86.7
150 156.6 0.0 356.2

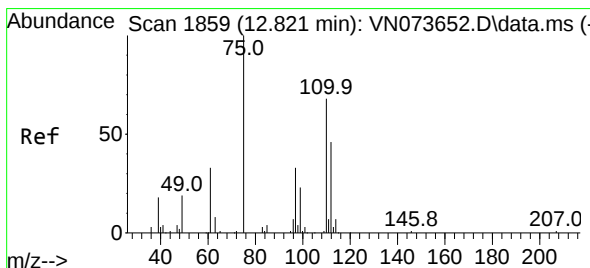
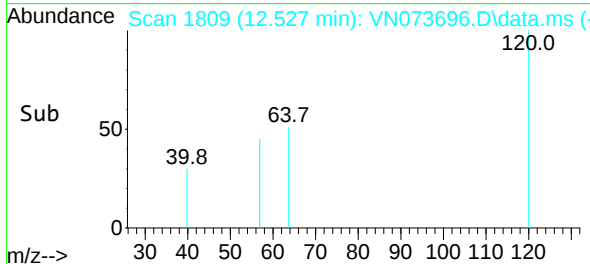
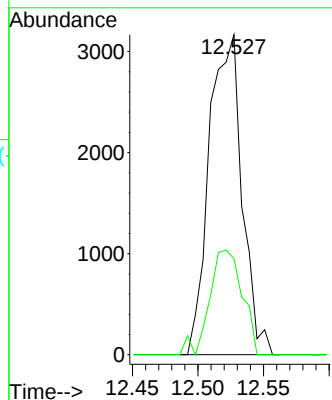
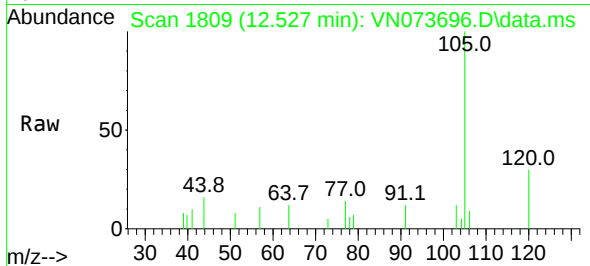




#73
Isopropylbenzene
Concen: 0.280 ug/l
RT: 12.527 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

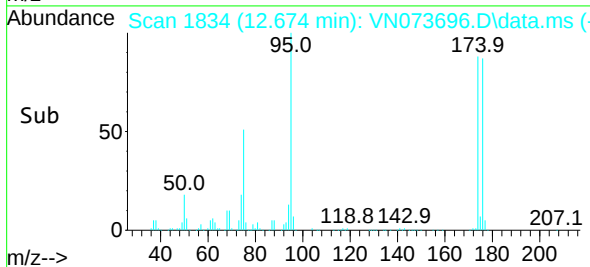
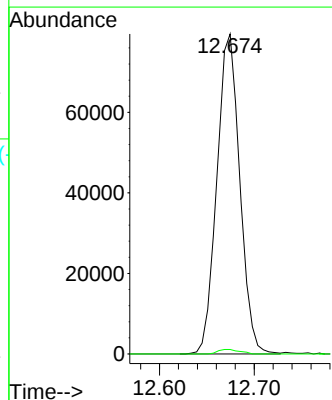
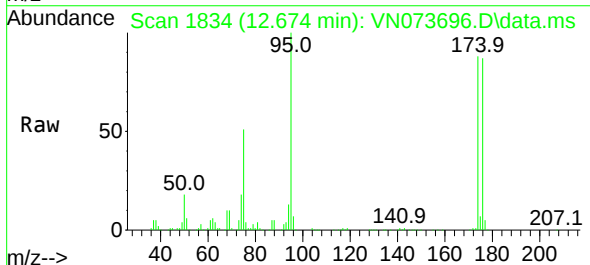
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

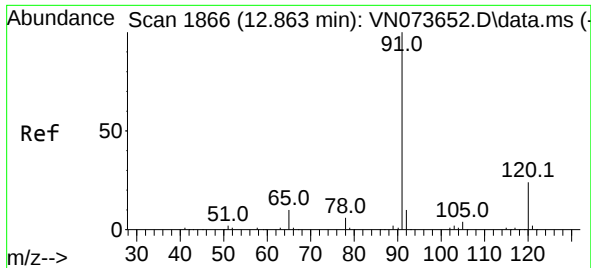
Tgt Ion:105 Resp: 5507
Ion Ratio Lower Upper
105 100
120 32.7 13.5 40.4



#76
1,2,3-Trichloropropane
Concen: 25.577 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 75 Resp: 133750
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#

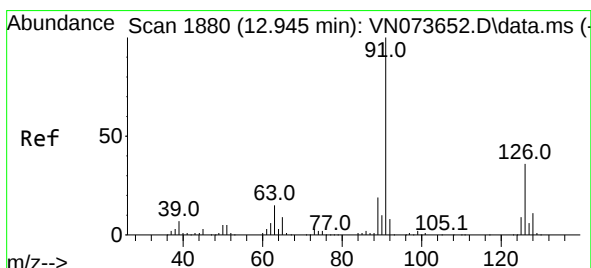
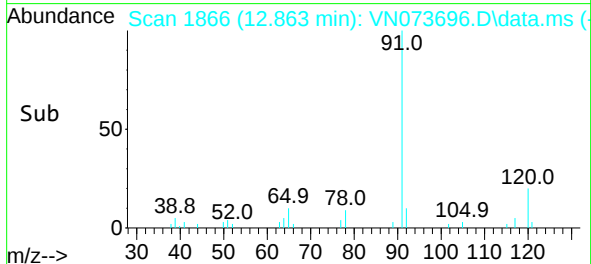
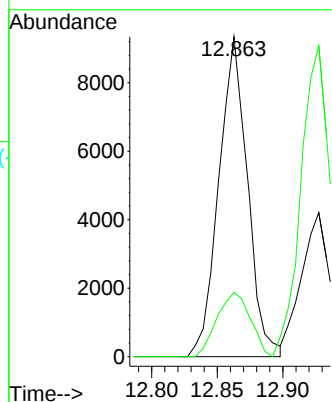
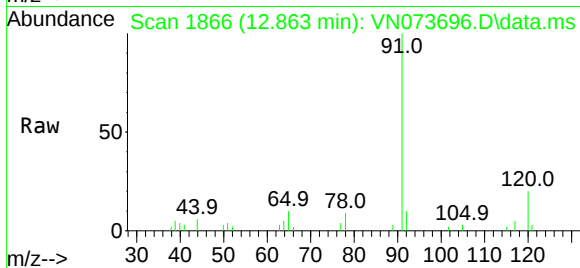




#78
n-propylbenzene
Concen: 0.642 ug/l
RT: 12.863 min Scan# 1866
Delta R.T. 0.000 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

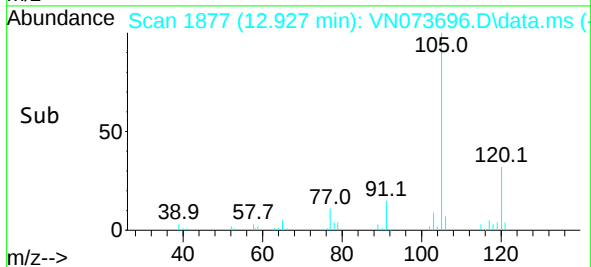
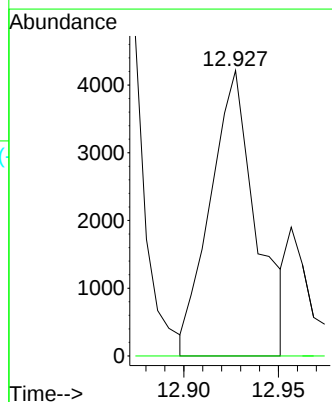
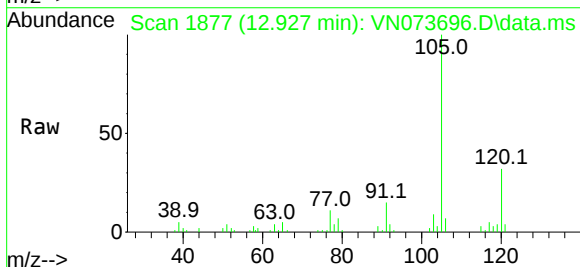
Instrument :
MSVOA_N
ClientSampleId :
MW-14R

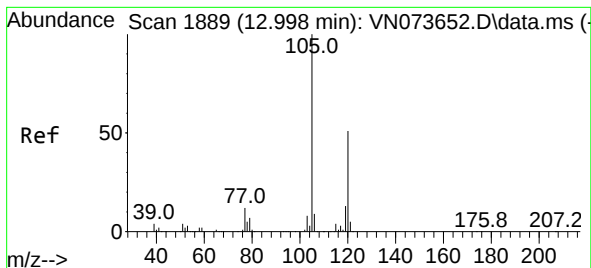
Tgt Ion: 91 Resp: 14214
Ion Ratio Lower Upper
91 100
120 23.4 11.9 35.5



#79
2-Chlorotoluene
Concen: 0.510 ug/l
RT: 12.927 min Scan# 1877
Delta R.T. -0.023 min
Lab File: VN073696.D
Acq: 02 Aug 2022 18:53

Tgt Ion: 91 Resp: 7050
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#





#80

1,3,5-Trimethylbenzene

Concen: 1.379 ug/l

RT: 13.004 min Scan# 1890

Delta R.T. 0.006 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

Instrument :

MSVOA_N

ClientSampleId :

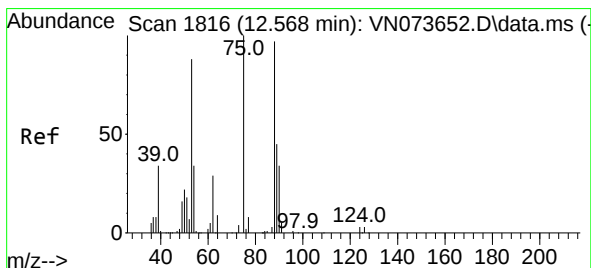
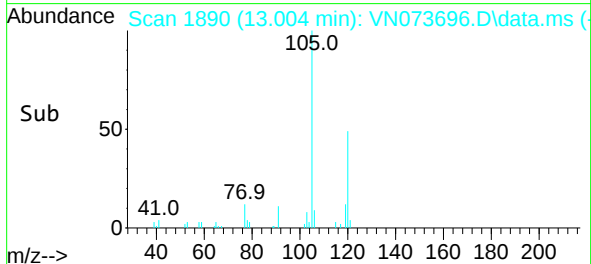
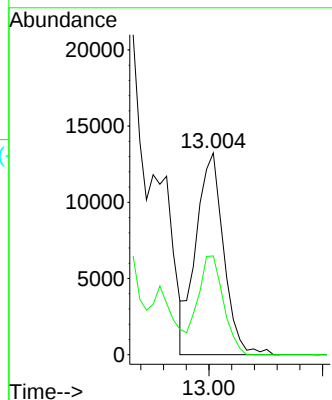
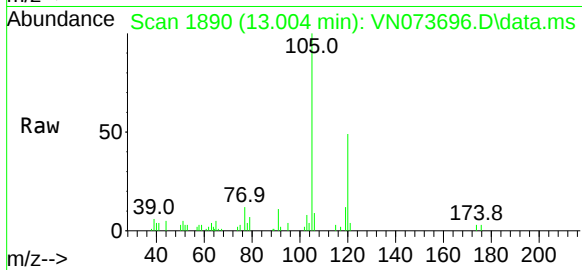
MW-14R

Tgt Ion:105 Resp: 22345

Ion Ratio Lower Upper

105 100

120 44.8 24.9 74.7



#81

trans-1,4-Dichloro-2-butene

Concen: 64.459 ug/l

RT: 12.674 min Scan# 1834

Delta R.T. 0.106 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

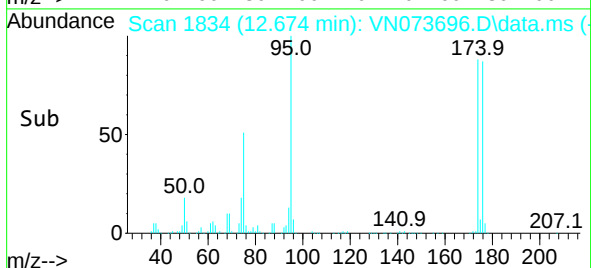
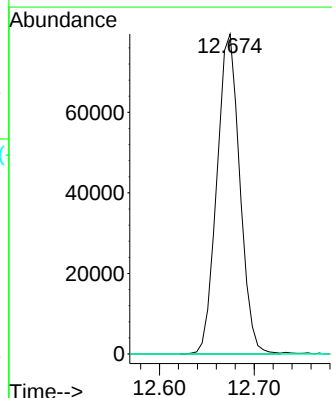
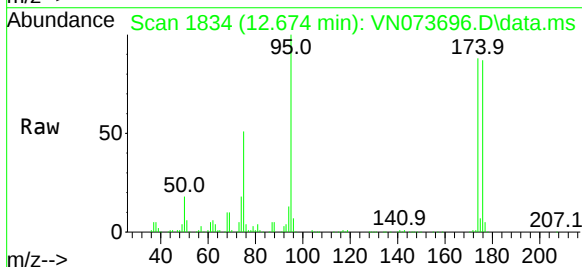
Tgt Ion: 75 Resp: 133750

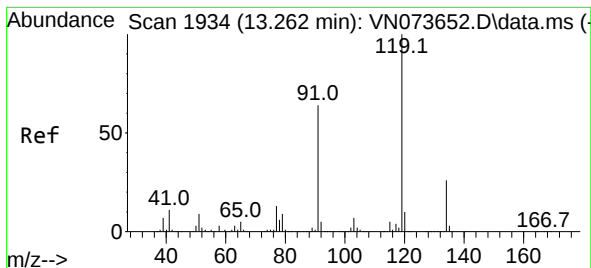
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 37.2 55.8#





#83

tert-Butylbenzene

Concen: 0.636 ug/l

RT: 13.310 min Scan# 1942

Delta R.T. 0.047 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

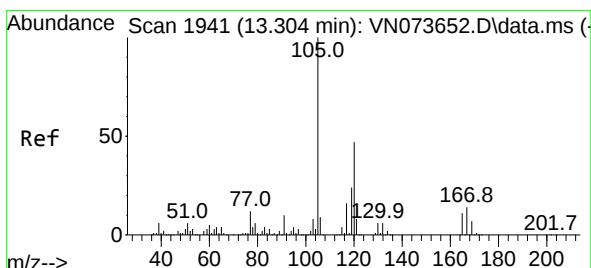
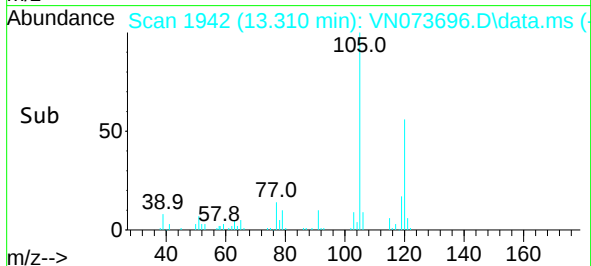
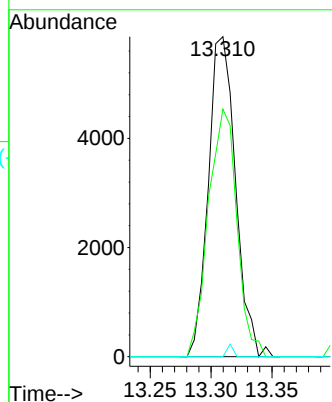
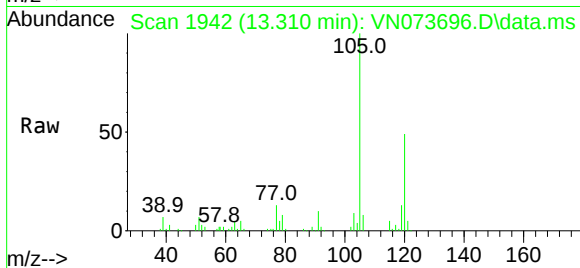
Instrument :

MSVOA_N

ClientSampleId :

MW-14R

Tgt Ion:119	Resp:	9128
Ion Ratio	Lower	Upper
119	100	
91	81.0	31.6 94.8
134	0.9	13.7 41.1#



#84

1,2,4-Trimethylbenzene

Concen: 4.382 ug/l

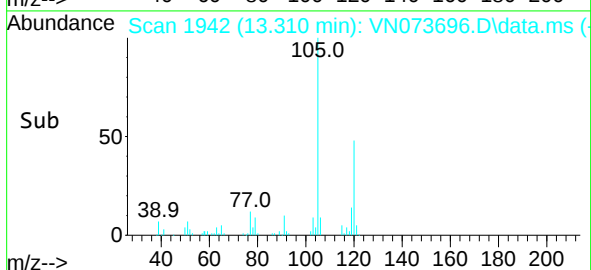
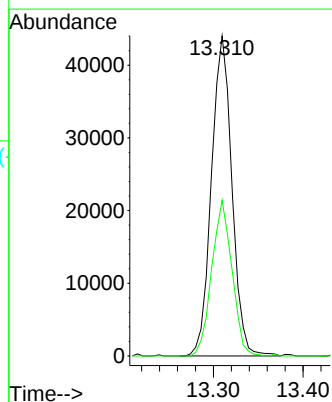
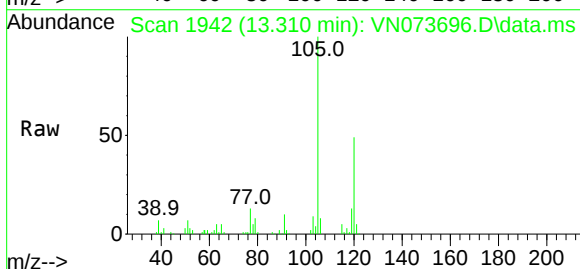
RT: 13.310 min Scan# 1942

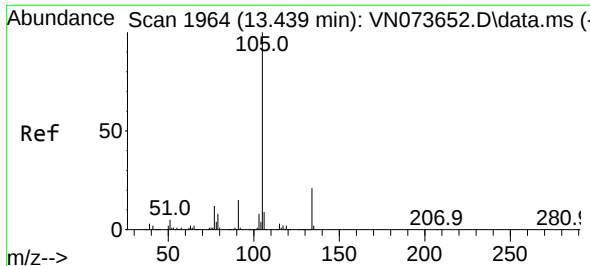
Delta R.T. 0.000 min

Lab File: VN073696.D

Acq: 02 Aug 2022 18:53

Tgt Ion:105	Resp:	69803
Ion Ratio	Lower	Upper
105	100	
120	48.0	23.3 69.8

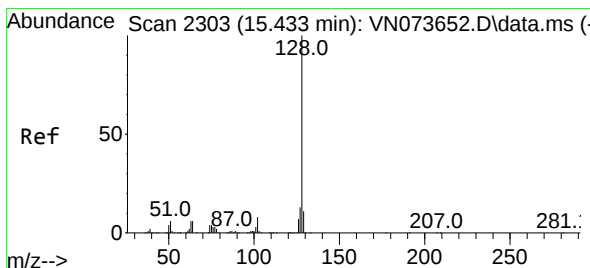
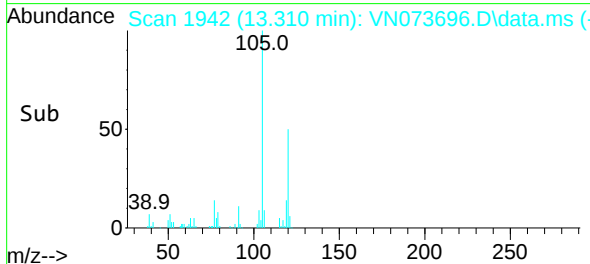
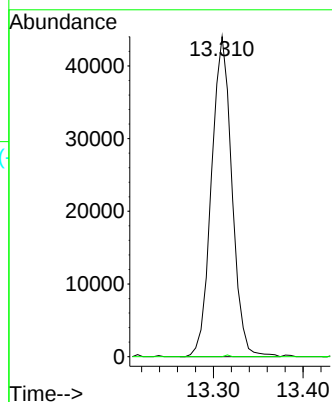
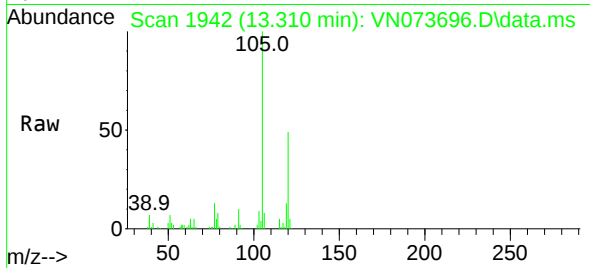




#85
 sec-Butylbenzene
 Concen: 3.520 ug/l
 RT: 13.310 min Scan# 1942
 Delta R.T. -0.129 min
 Lab File: VN073696.D
 Acq: 02 Aug 2022 18:53

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14R

Tgt Ion:105 Resp: 69803
 Ion Ratio Lower Upper
 105 100
 134 0.1 10.4 31.1#



#95
 Naphthalene
 Concen: 1.078 ug/l
 RT: 15.439 min Scan# 2304
 Delta R.T. 0.006 min
 Lab File: VN073696.D
 Acq: 02 Aug 2022 18:53

Tgt Ion:128 Resp: 16475
 Ion Ratio Lower Upper
 128 100
 127 11.0 10.3 15.5
 129 10.8 8.6 13.0

