

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084093.D
 Acq On : 21 Sep 2024 06:11 am
 Operator : JC\MD
 Sample : P4123-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 910-A

Quant Time: Sep 21 06:49:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

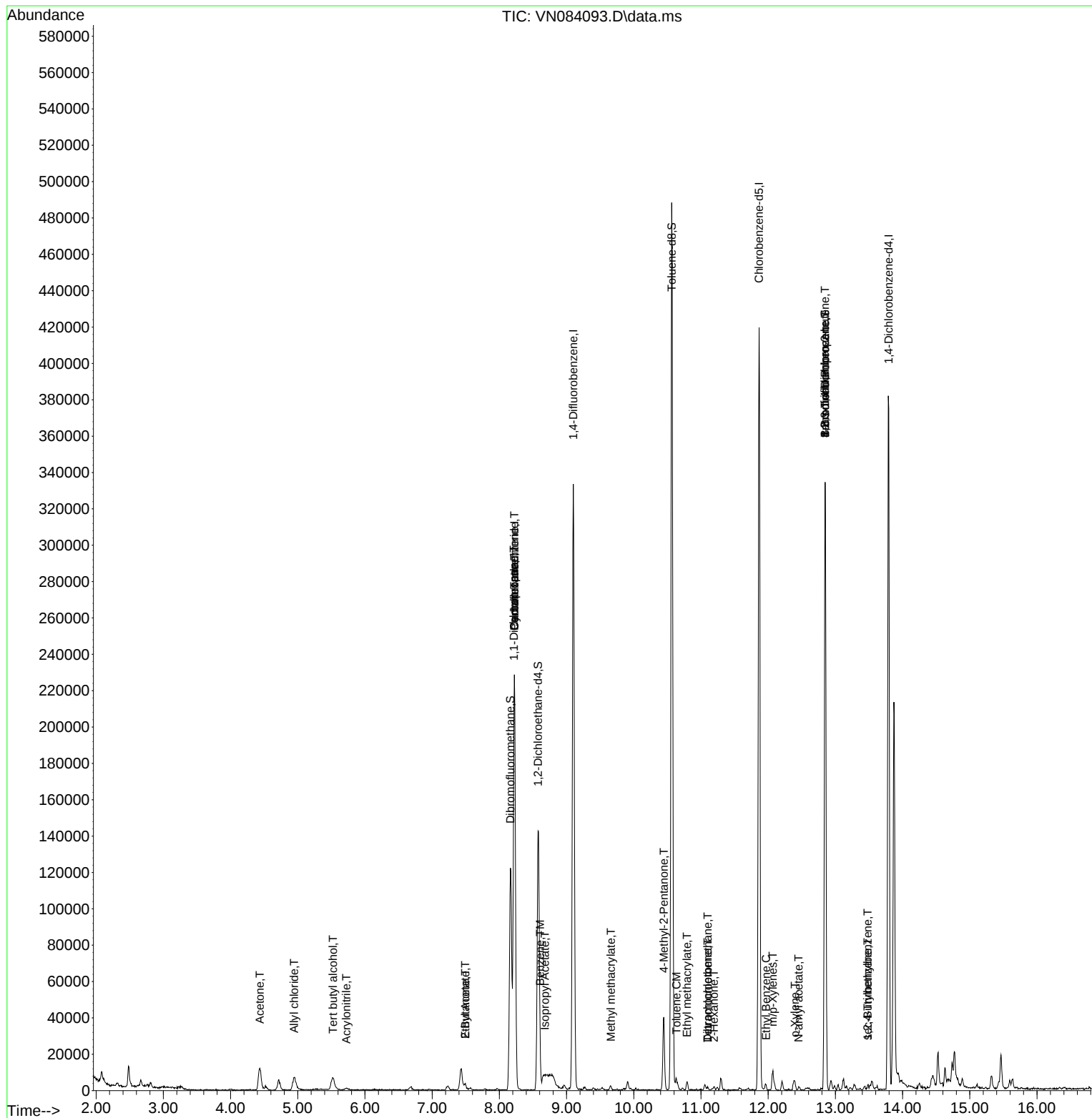
Internal Standards						
1) Pentafluorobenzene	8.224	168	156425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	273271	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	231393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	95665	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	122222	51.818	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.640%			
35) Dibromofluoromethane	8.165	113	87602	50.074	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.140%			
50) Toluene-d8	10.565	98	325986	53.900	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.800%			
62) 4-Bromofluorobenzene	12.847	95	114608	45.931	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.860%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	314	Below Cal	#	41
11) Tert butyl alcohol	5.524	59	13019	41.219	ug/l #	92
14) Allyl chloride	4.947	41	13444	4.459	ug/l #	36
15) Acrylonitrile	5.724	53	1271	1.480	ug/l #	85
16) Acetone	4.436	43	25177	26.627	ug/l	97
18) Methyl Acetate	5.018	43	278	Below Cal	#	52
25) 2-Butanone	7.494	43	5886	4.736	ug/l	95
31) Cyclohexane	8.224	56	4384	1.286	ug/l #	8
36) 1,1-Dichloropropene	8.218	75	14311	5.435	ug/l #	50
37) Ethyl Acetate	7.494	43	5886	2.463	ug/l #	68
38) Carbon Tetrachloride	8.224	117	17954	6.010	ug/l #	18
40) Benzene	8.606	78	3156	0.398	ug/l	92
43) Isopropyl Acetate	8.676	43	8057	1.860	ug/l #	57
48) Methyl methacrylate	9.659	41	920	0.448	ug/l #	23
51) 4-Methyl-2-Pentanone	10.447	43	28311	12.008	ug/l	93
52) Toluene	10.635	92	2401	0.495	ug/l	96
56) Ethyl methacrylate	10.794	69	812	0.292	ug/l #	56
59) 2-Hexanone	11.194	43	2019	1.158	ug/l #	60
60) Dibromochloromethane	11.100	129	449	0.222	ug/l #	10
64) Tetrachloroethene	11.100	164	526	0.342	ug/l #	62
67) Ethyl Benzene	11.970	91	2995	0.328	ug/l	93
68) m/p-Xylenes	12.070	106	3297	0.972	ug/l	89
69) o-Xylene	12.400	106	1267	0.386	ug/l	100
71) Bromoform	12.847	173	810	0.674	ug/l #	29
74) N-amyl acetate	12.453	43	1571	0.498	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	64868	33.605	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	64868	88.013	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.482	105	1818	0.290	ug/l	100
85) sec-Butylbenzene	13.482	105	1818	0.251	ug/l #	57

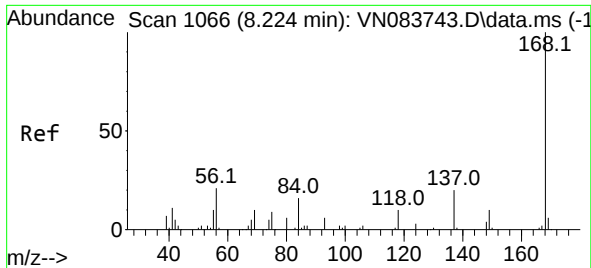
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
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Quant Time: Sep 21 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

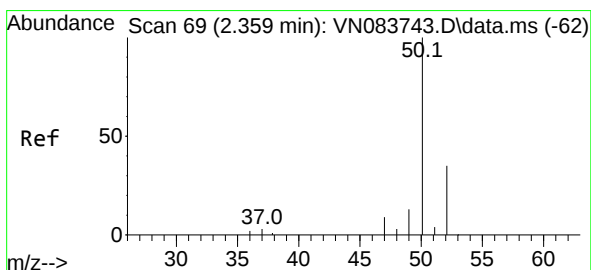
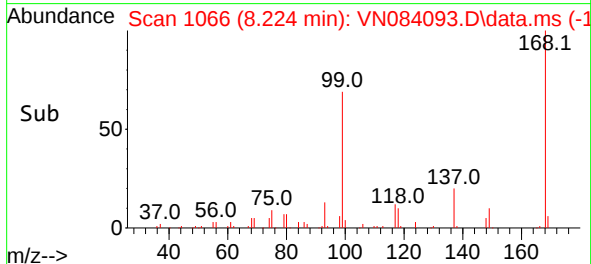
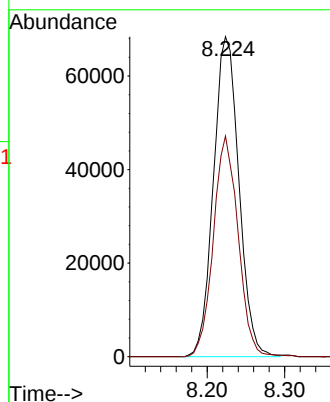
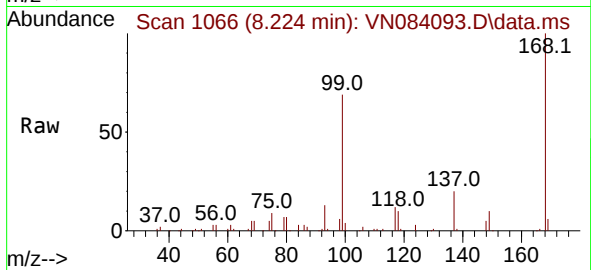




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

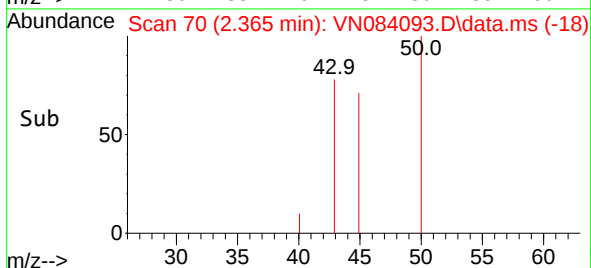
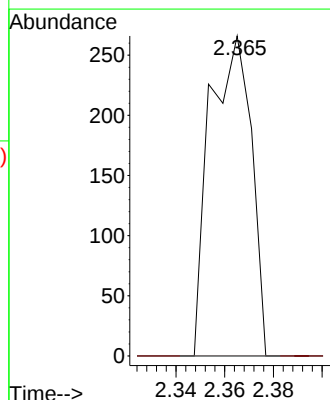
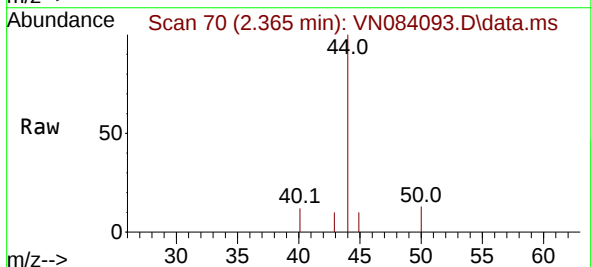
Instrument :
MSVOA_N
ClientSampleId :
910-A

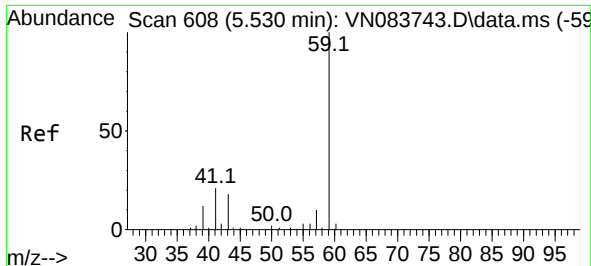
Tgt Ion:168 Resp: 156425
Ion Ratio Lower Upper
168 100
99 68.9 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 50 Resp: 314
Ion Ratio Lower Upper
50 100
52 0.0 27.2 40.8#

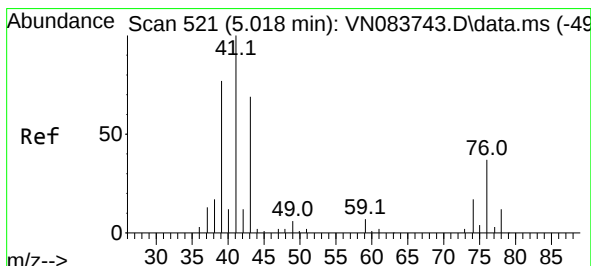
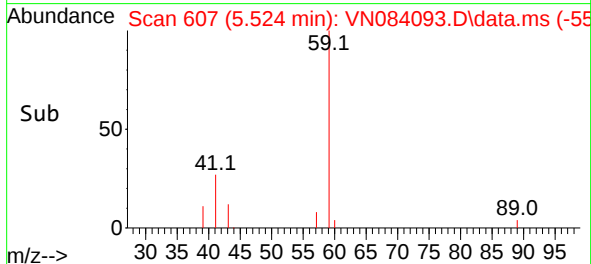
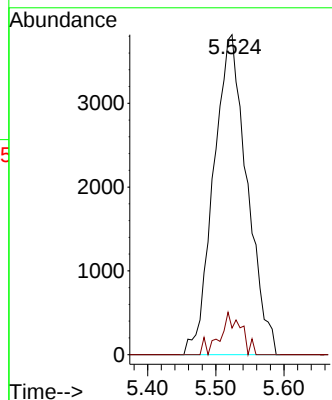
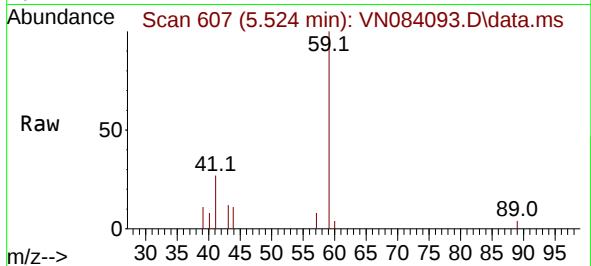




#11
Tert butyl alcohol
Concen: 41.219 ug/l
RT: 5.524 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

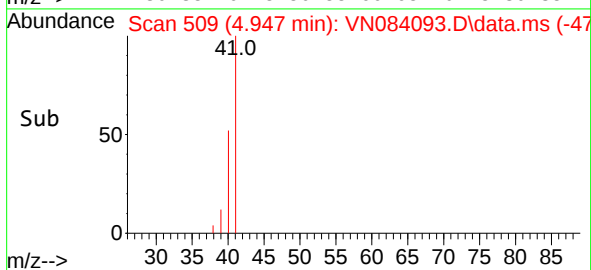
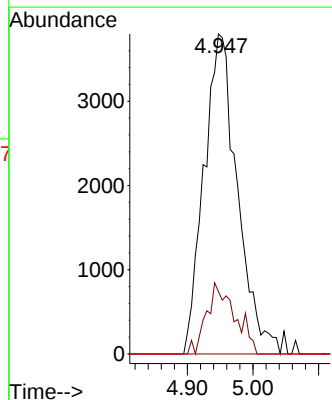
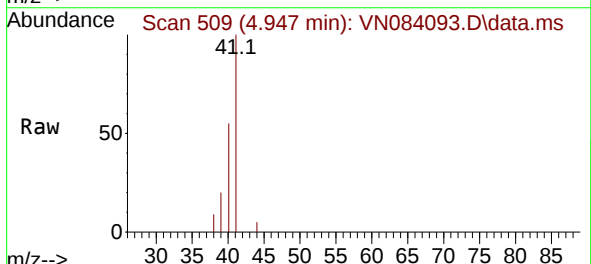
Instrument :
MSVOA_N
ClientSampleId :
910-A

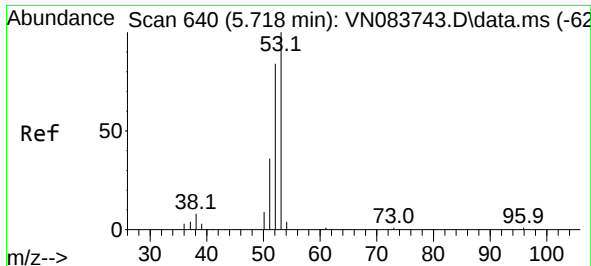
Tgt Ion: 59 Resp: 13019
Ion Ratio Lower Upper
59 100
57 7.8 8.7 13.1#



#14
Allyl chloride
Concen: 4.459 ug/l
RT: 4.947 min Scan# 509
Delta R.T. -0.071 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 41 Resp: 13444
Ion Ratio Lower Upper
41 100
39 18.9 59.3 88.9#
76 0.0 27.7 41.5#

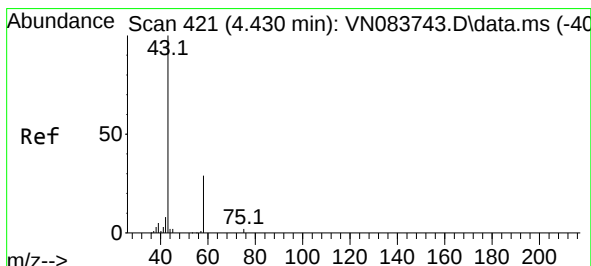
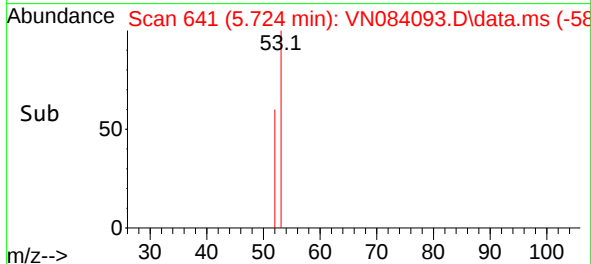
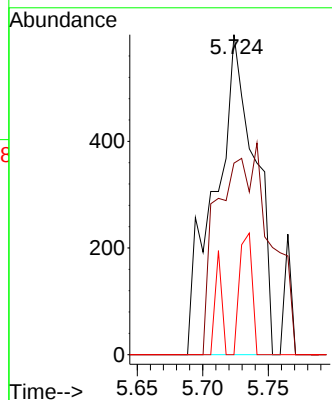
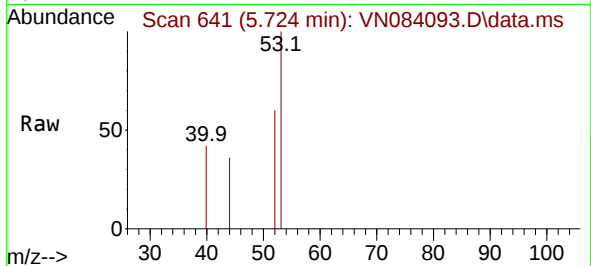




#15
Acrylonitrile
Concen: 1.480 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

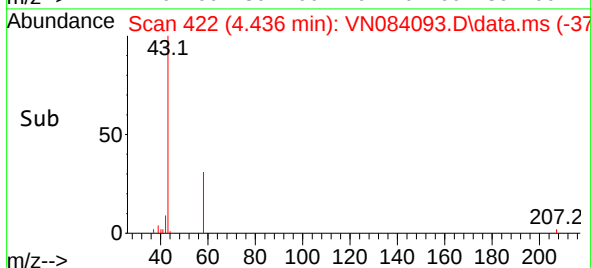
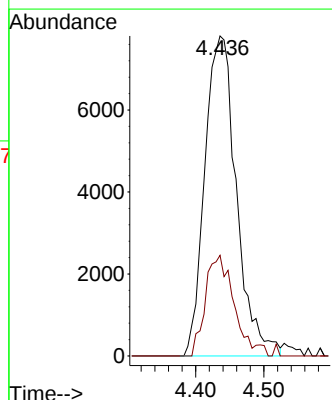
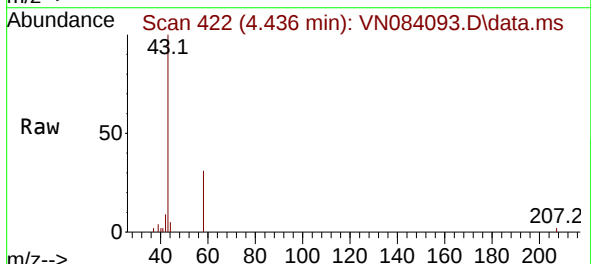
Instrument :
MSVOA_N
ClientSampleId :
910-A

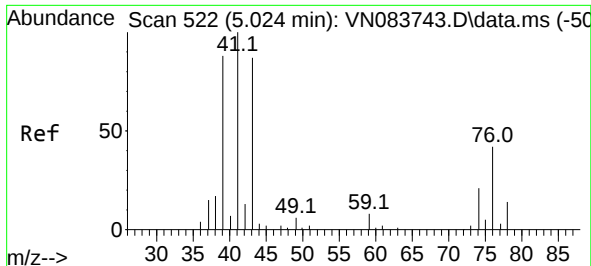
Tgt Ion: 53 Resp: 1271
Ion Ratio Lower Upper
53 100
52 85.8 66.1 99.1
51 12.0 29.6 44.4#



#16
Acetone
Concen: 26.627 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 43 Resp: 25177
Ion Ratio Lower Upper
43 100
58 31.5 23.7 35.5





#18

Methyl Acetate

Concen: Below Cal

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11

Instrument :

MSVOA_N

ClientSampleId :

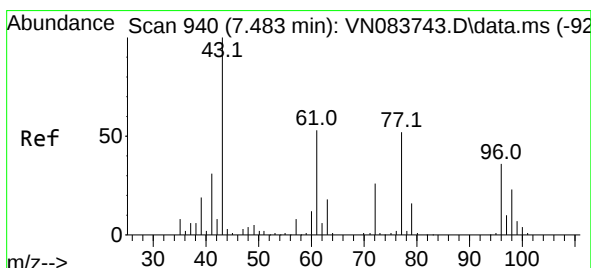
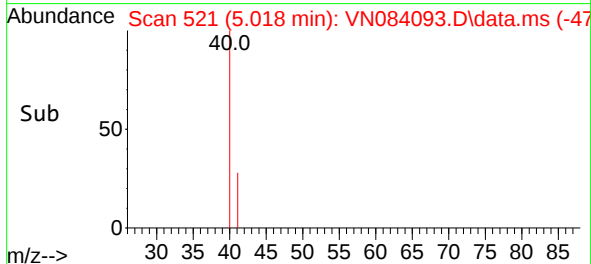
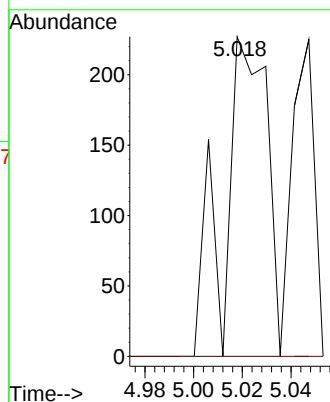
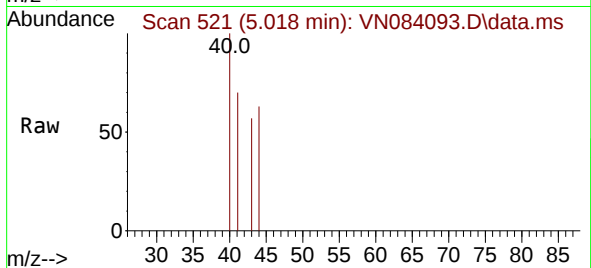
910-A

Tgt Ion: 43 Resp: 278

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#



#25

2-Butanone

Concen: 4.736 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.012 min

Lab File: VN084093.D

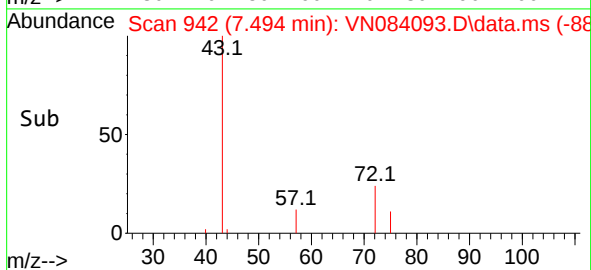
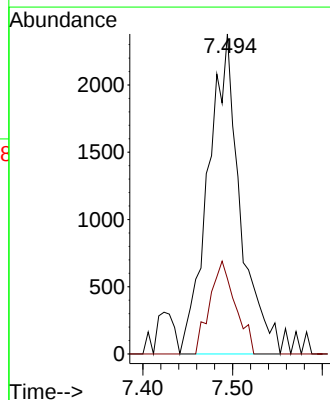
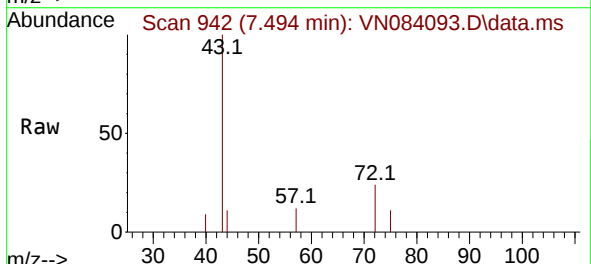
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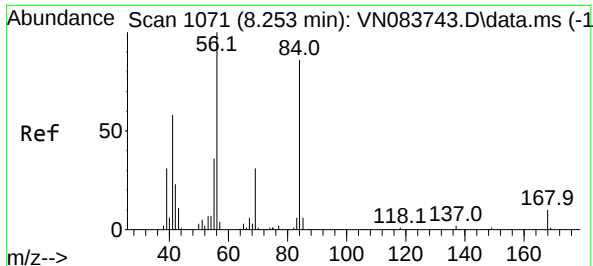
Tgt Ion: 43 Resp: 5886

Ion Ratio Lower Upper

43 100

72 23.6 20.8 31.2

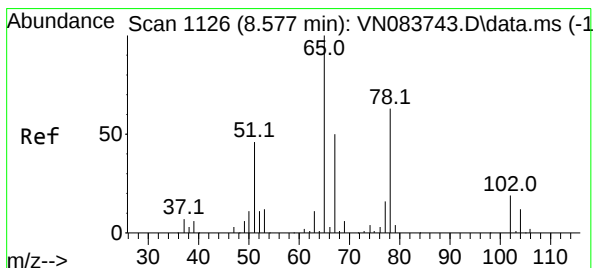
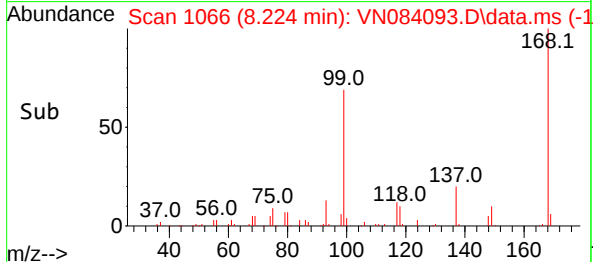
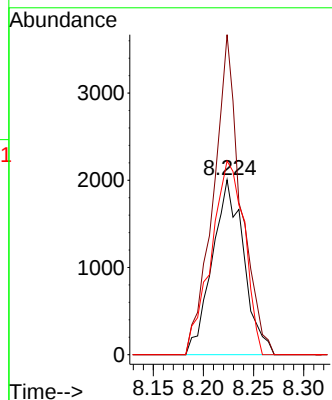
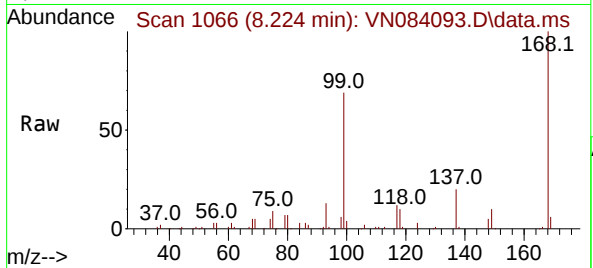




#31
Cyclohexane
Concen: 1.286 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

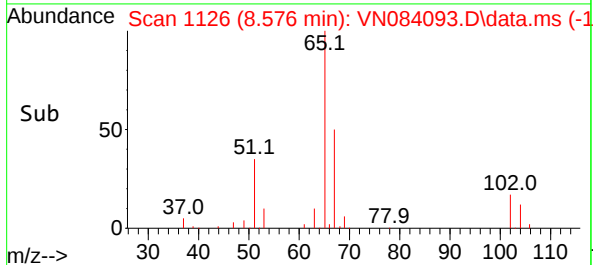
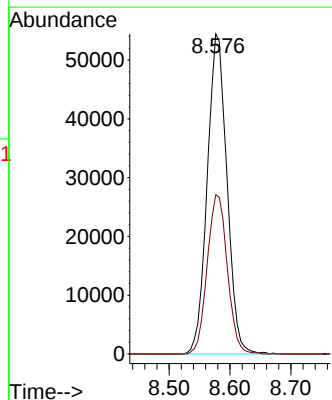
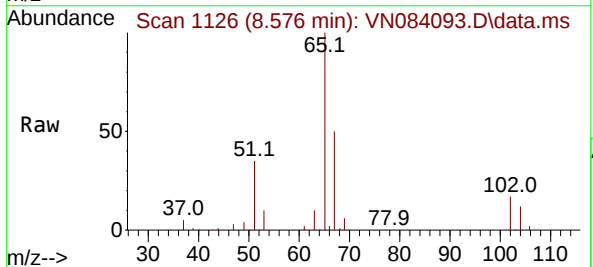
Instrument :
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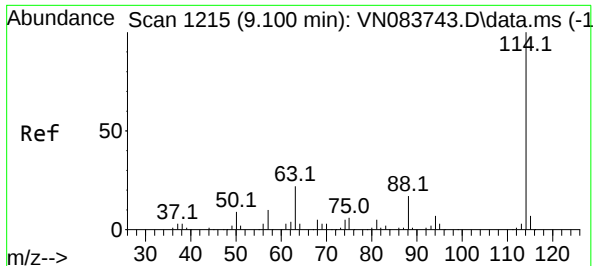
Tgt Ion: 56 Resp: 4384
Ion Ratio Lower Upper
56 100
69 183.0 26.9 40.3#
84 110.8 69.2 103.8#



#33
1,2-Dichloroethane-d4
Concen: 51.818 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 65 Resp: 122222
Ion Ratio Lower Upper
65 100
67 50.7 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11

Instrument :

MSVOA_N

ClientSampleId :

910-A

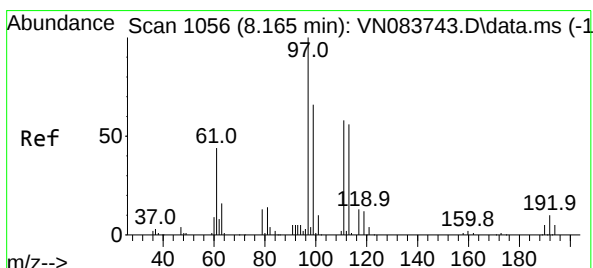
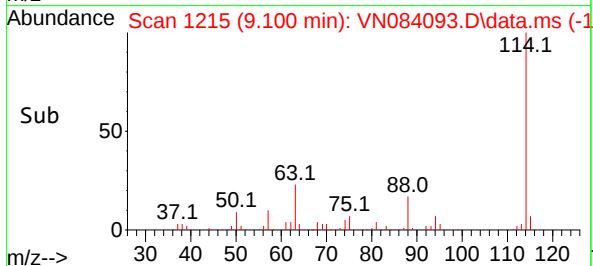
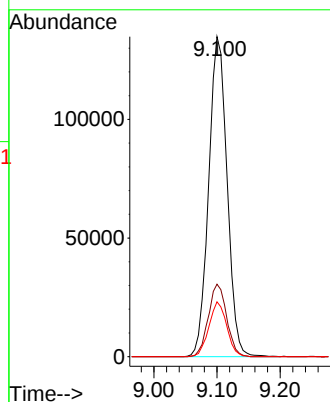
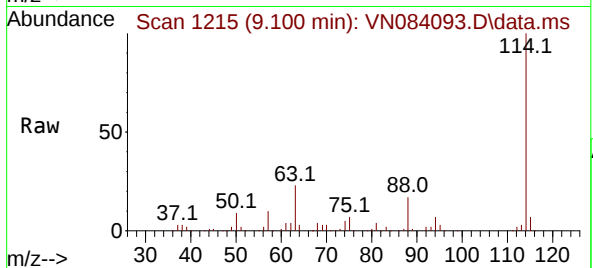
Tgt Ion:114 Resp: 273271

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.4

88 17.2 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.074 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11 am

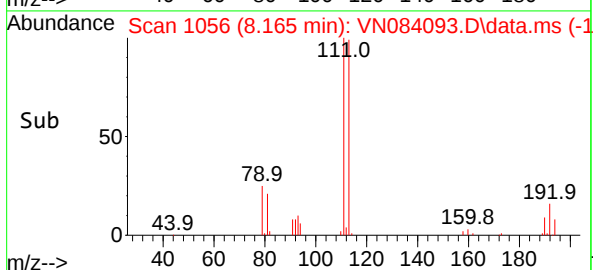
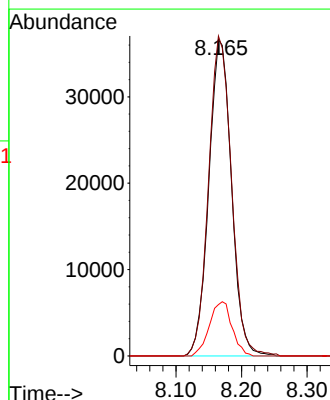
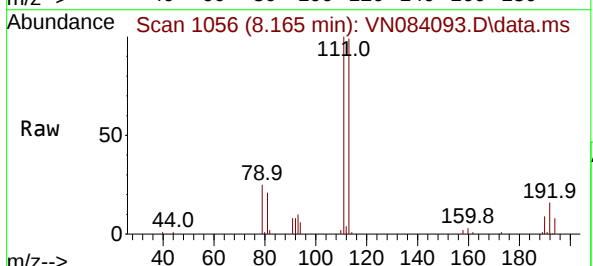
Tgt Ion:113 Resp: 87602

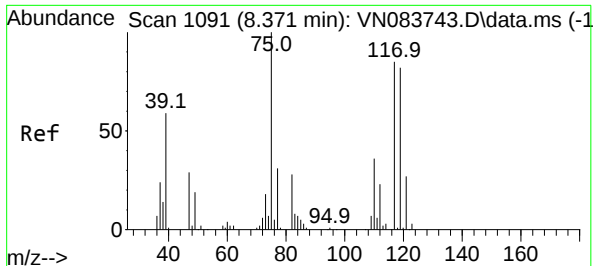
Ion Ratio Lower Upper

113 100

111 102.3 82.6 124.0

192 17.2 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.435 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11

Instrument :

MSVOA_N

ClientSampleId :

910-A

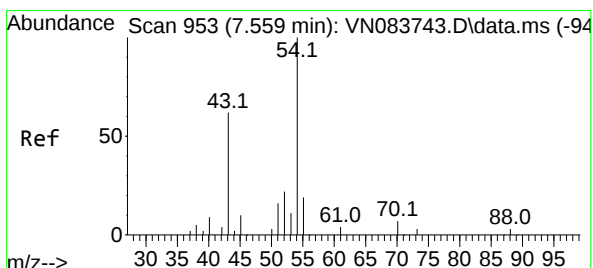
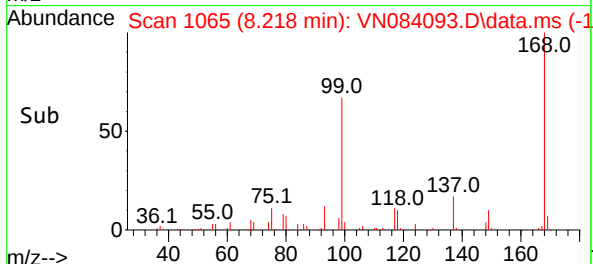
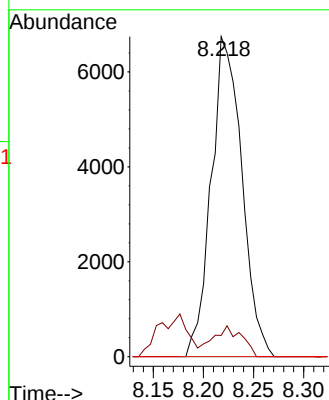
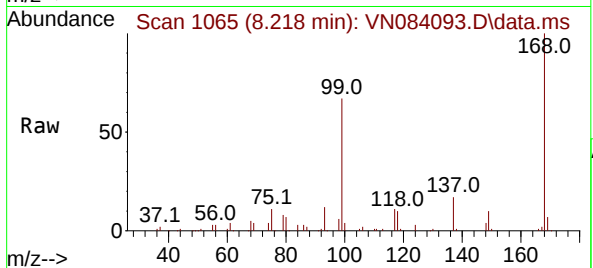
Tgt Ion: 75 Resp: 14311

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 2.463 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.065 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11 am

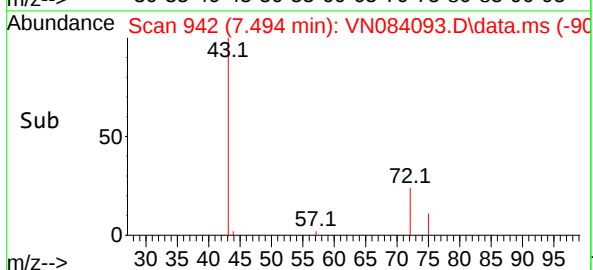
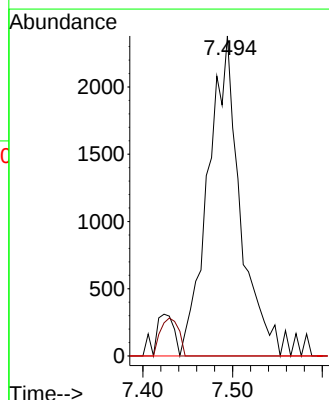
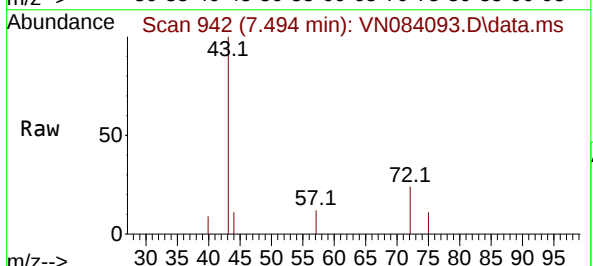
Tgt Ion: 43 Resp: 5886

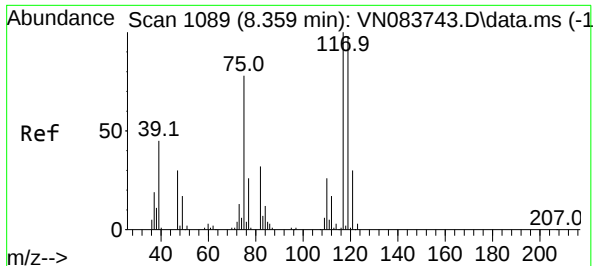
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.8 13.2#

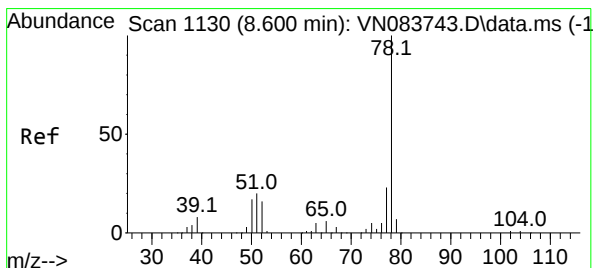
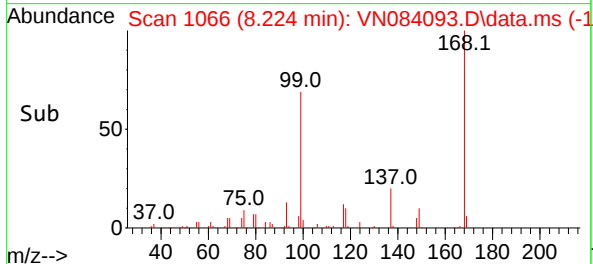
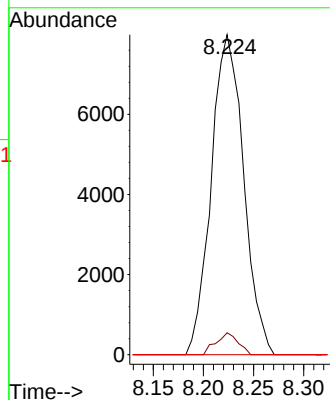
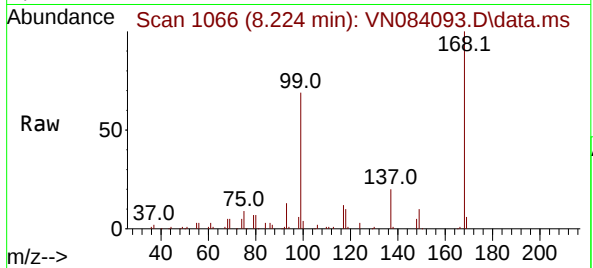




#38
Carbon Tetrachloride
Concen: 6.010 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

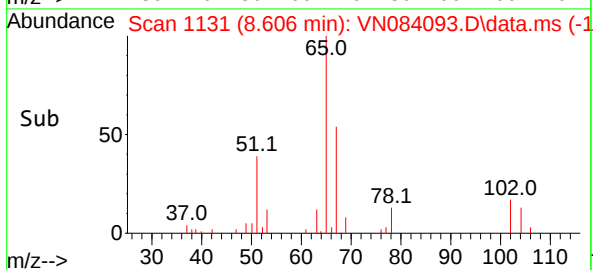
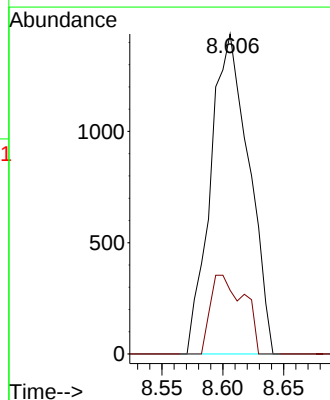
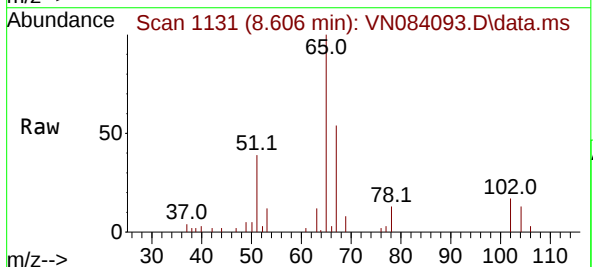
Instrument :
MSVOA_N
ClientSampleId :
910-A

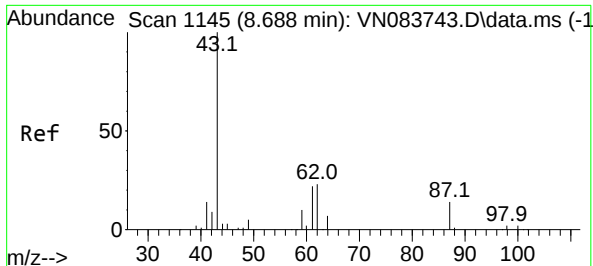
Tgt Ion:117 Resp: 17954
Ion Ratio Lower Upper
117 100
119 6.9 76.1 114.1#
121 0.0 24.1 36.1#



#40
Benzene
Concen: 0.398 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 78 Resp: 3156
Ion Ratio Lower Upper
78 100
77 19.9 19.0 28.6





#43

Isopropyl Acetate

Concen: 1.860 ug/l

RT: 8.676 min Scan# 1143

Delta R.T. -0.012 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11

Instrument :

MSVOA_N

ClientSampleId :

910-A

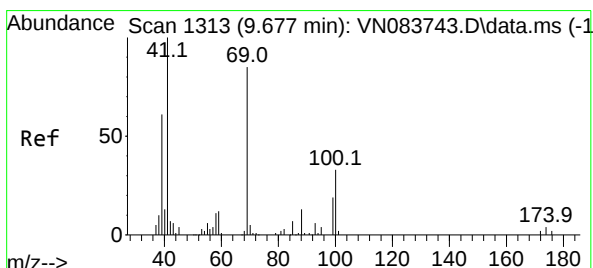
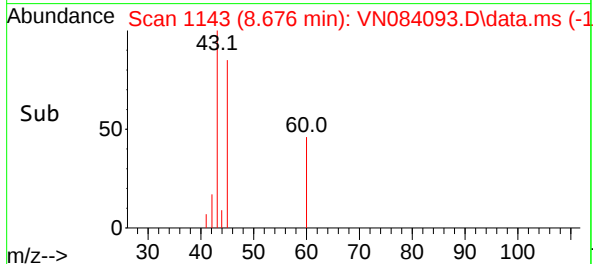
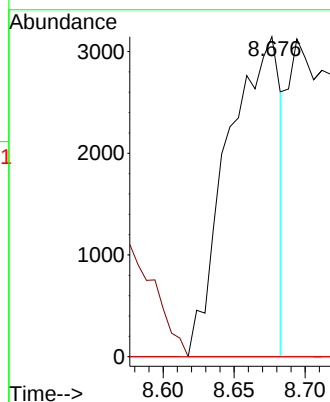
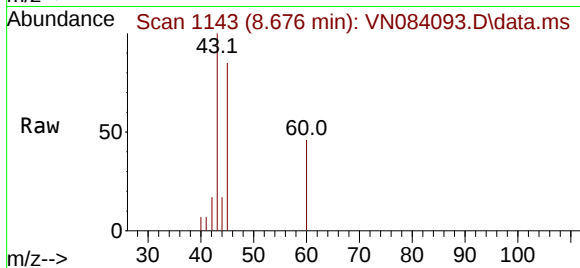
Tgt Ion: 43 Resp: 8057

Ion Ratio Lower Upper

43 100

61 0.0 19.4 29.0#

87 0.0 9.8 14.6#



#48

Methyl methacrylate

Concen: 0.448 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11 am

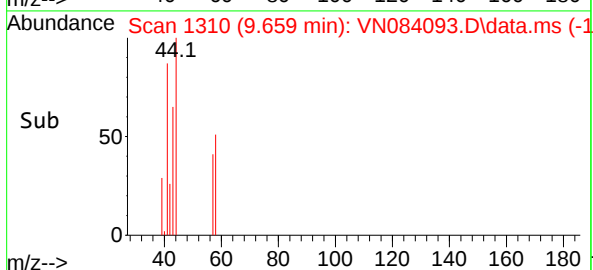
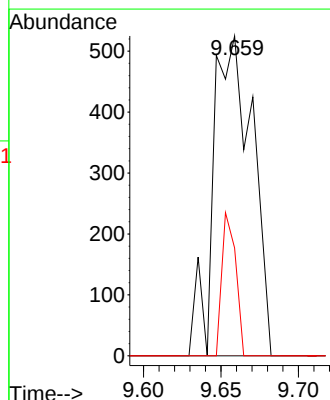
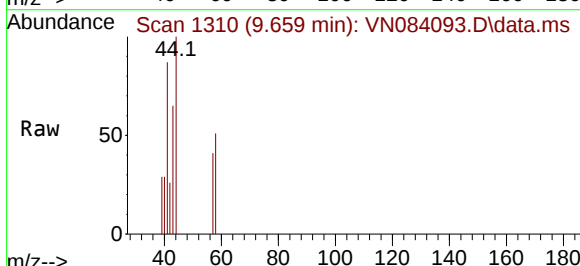
Tgt Ion: 41 Resp: 920

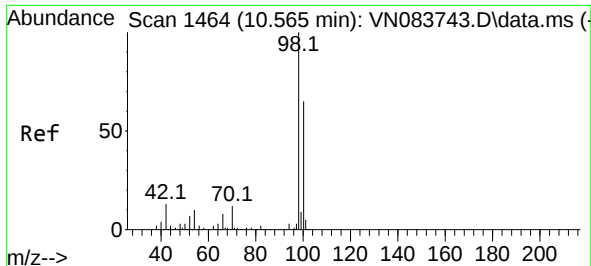
Ion Ratio Lower Upper

41 100

69 0.0 64.3 96.5#

39 15.8 48.9 73.3#

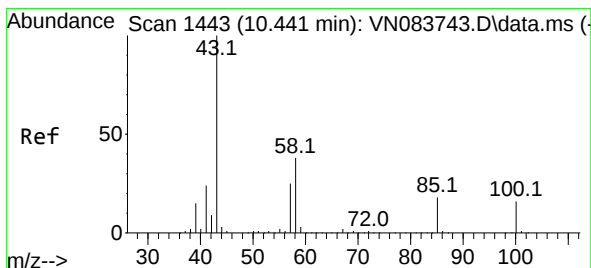
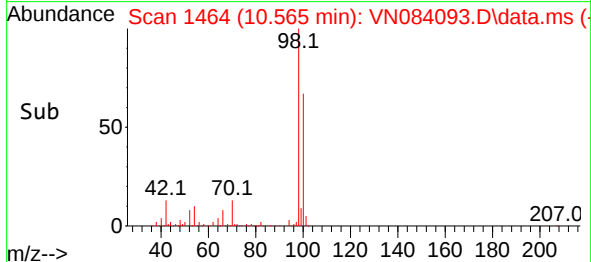
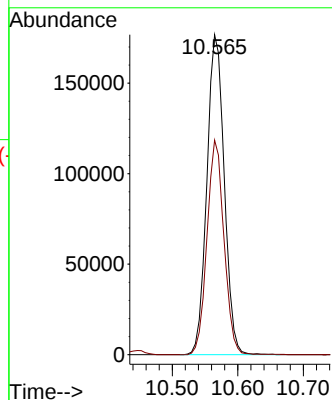
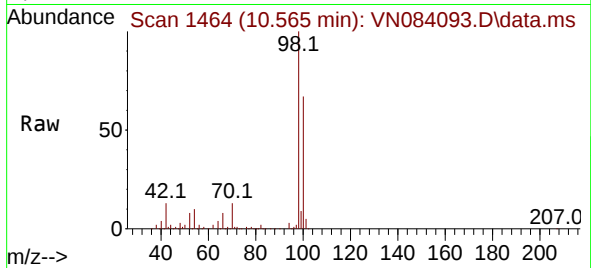




#50
Toluene-d8
Concen: 53.900 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

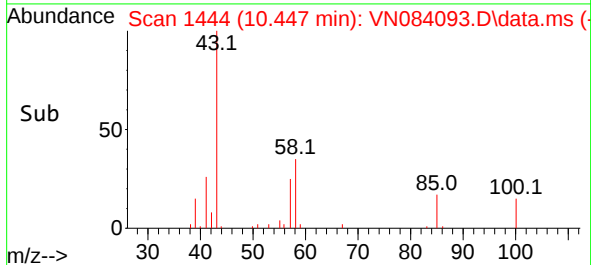
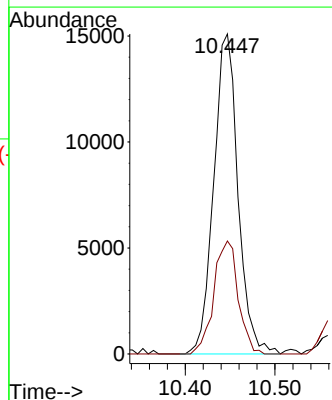
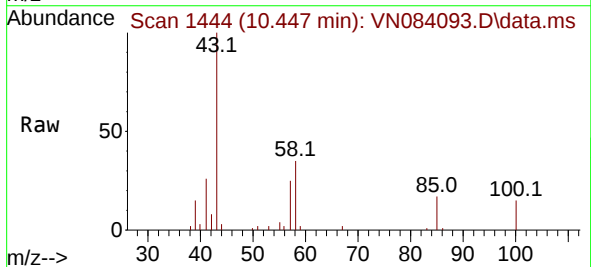
Instrument :
MSVOA_N
ClientSampleId :
910-A

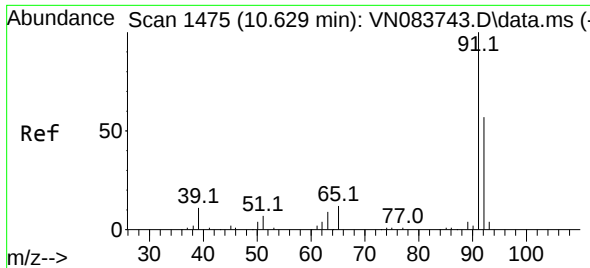
Tgt Ion: 98 Resp: 325986
Ion Ratio Lower Upper
98 100
100 65.5 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 12.008 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 43 Resp: 28311
Ion Ratio Lower Upper
43 100
58 35.4 31.6 47.4

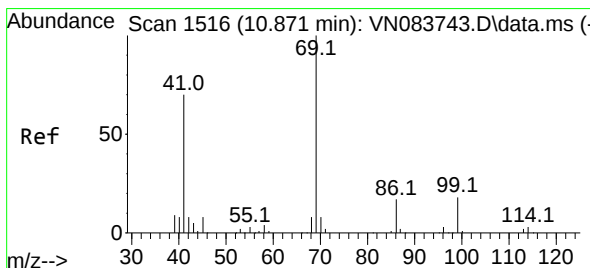
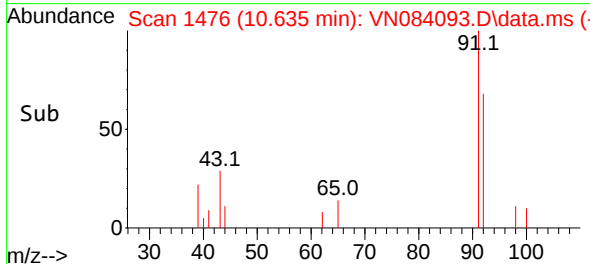
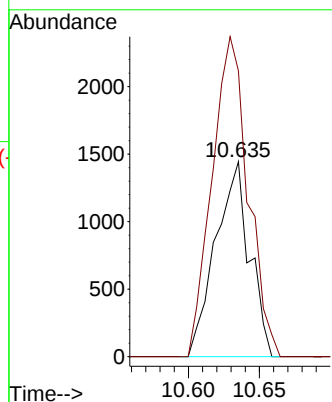
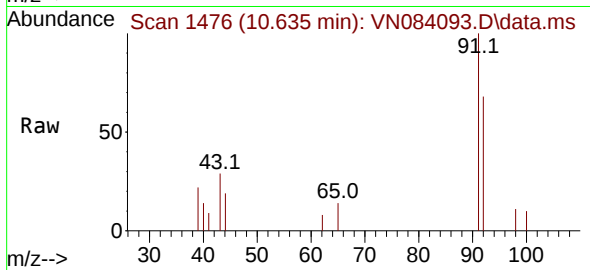




#52
Toluene
Concen: 0.495 ug/l
RT: 10.635 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

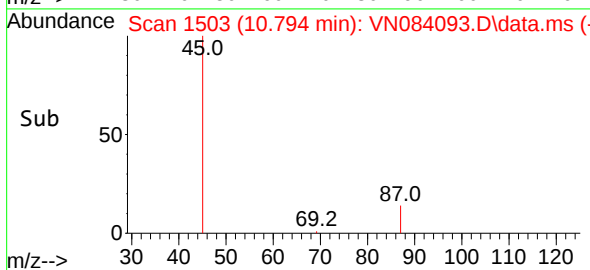
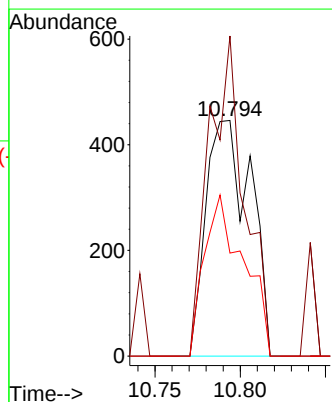
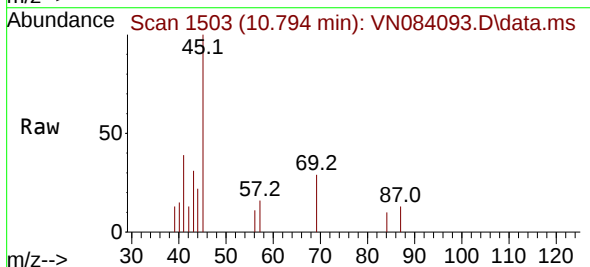
Instrument :
MSVOA_N
ClientSampleId :
910-A

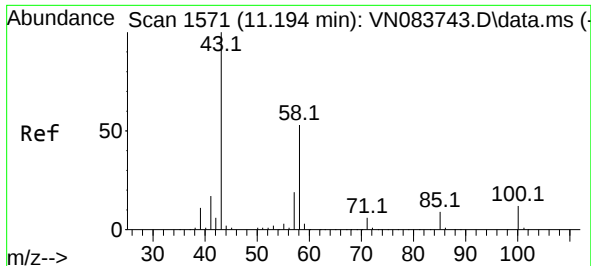
Tgt Ion: 92 Resp: 2401
Ion Ratio Lower Upper
92 100
91 174.4 134.7 202.1



#56
Ethyl methacrylate
Concen: 0.292 ug/l
RT: 10.794 min Scan# 1503
Delta R.T. -0.077 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 69 Resp: 812
Ion Ratio Lower Upper
69 100
41 108.0 53.9 80.9#
39 60.6 32.6 48.8#

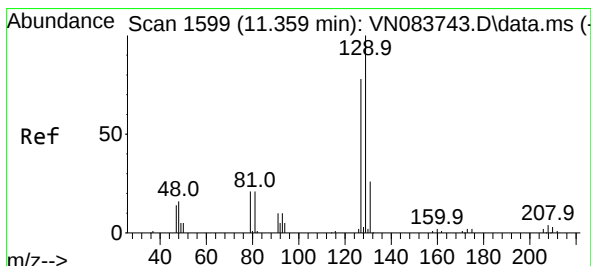
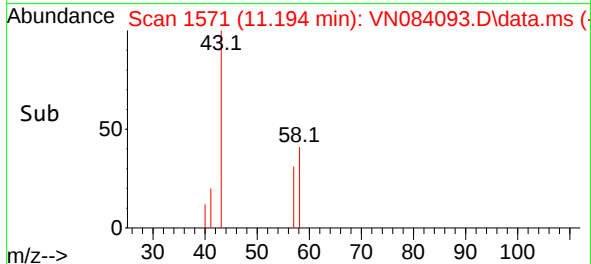
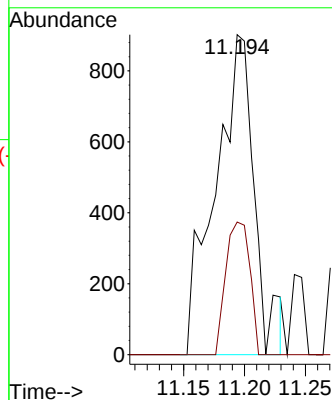
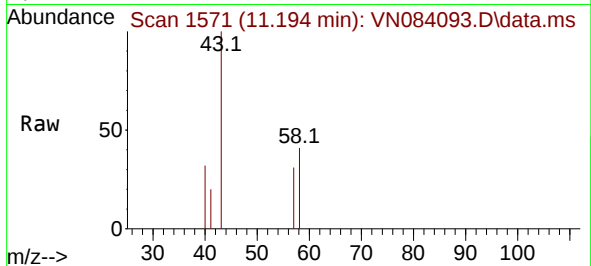




#59
2-Hexanone
Concen: 1.158 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

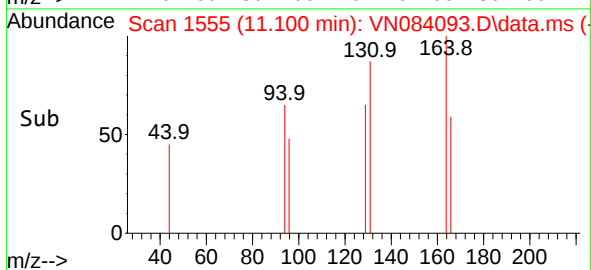
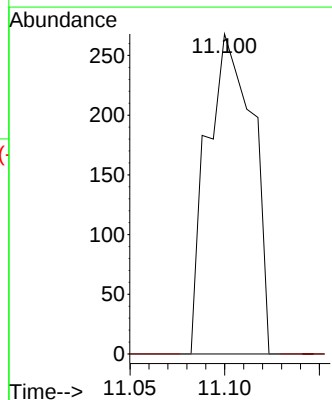
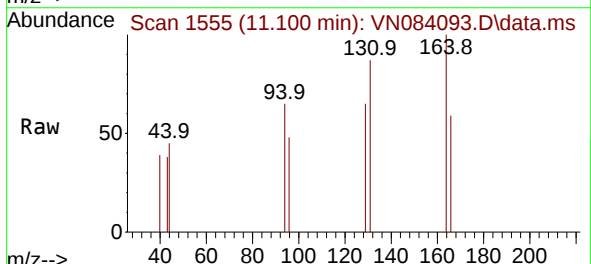
Instrument :
MSVOA_N
ClientSampleId :
910-A

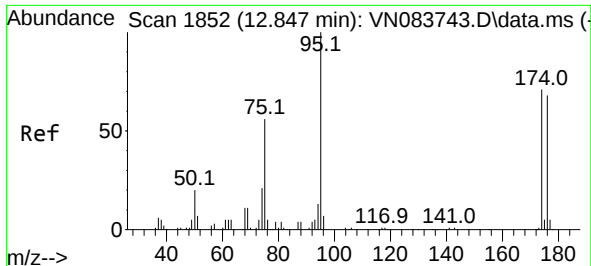
Tgt Ion: 43 Resp: 2019
Ion Ratio Lower Upper
43 100
58 25.5 27.2 81.5#



#60
Dibromochloromethane
Concen: 0.222 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.259 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 129 Resp: 449
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#

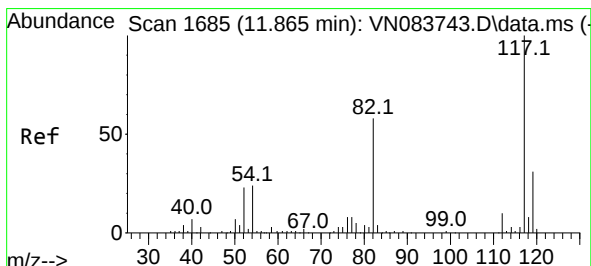
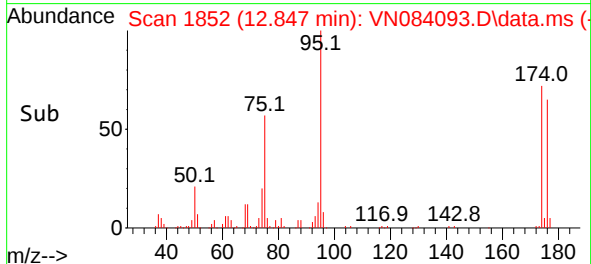
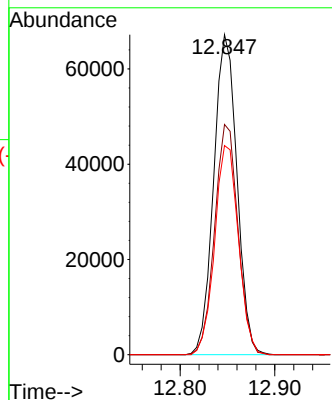
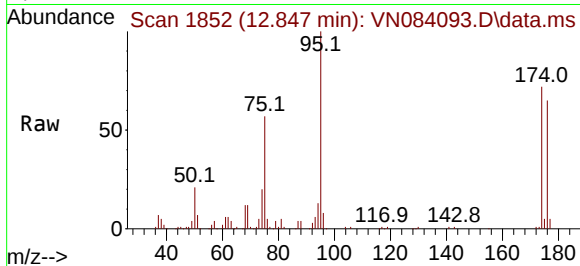




#62
4-Bromofluorobenzene
Concen: 45.931 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

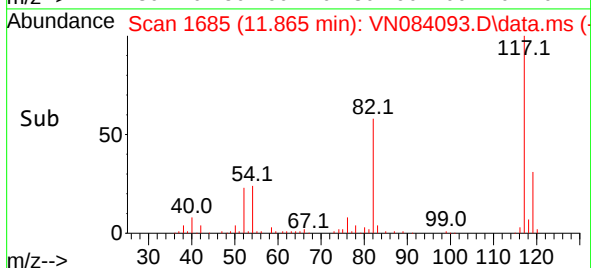
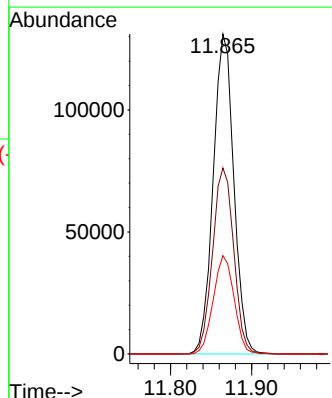
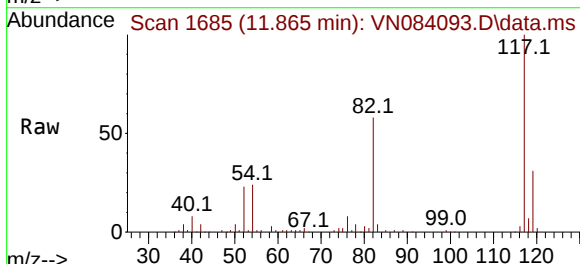
Instrument :
MSVOA_N
ClientSampleId :
910-A

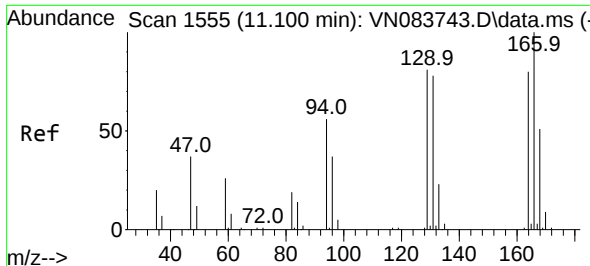
Tgt Ion: 95 Resp: 114608
Ion Ratio Lower Upper
95 100
174 72.3 0.0 139.8
176 66.8 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 117 Resp: 231393
Ion Ratio Lower Upper
117 100
82 58.1 47.4 71.0
119 30.8 26.3 39.5

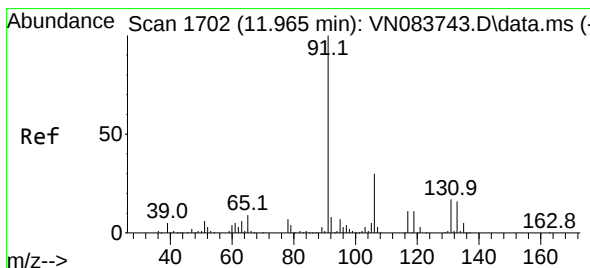
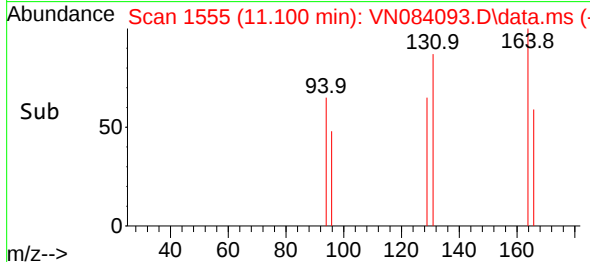
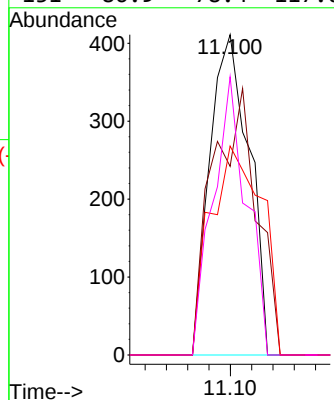
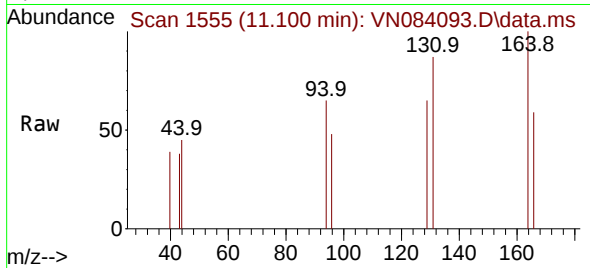




#64
Tetrachloroethene
Concen: 0.342 ug/l
RT: 11.100 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

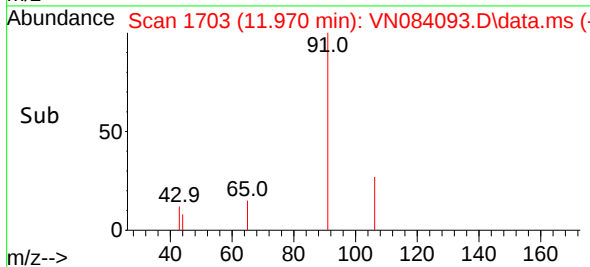
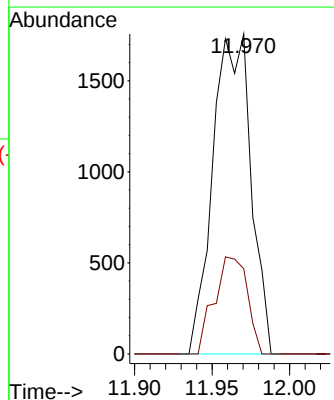
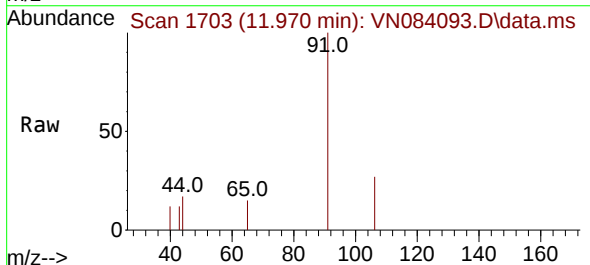
Instrument :
MSVOA_N
ClientSampleId :
910-A

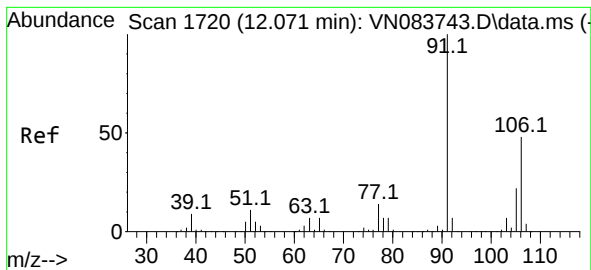
Tgt	Ion:164	Resp:	526
Ion	Ratio	Lower	Upper
164	100		
166	58.9	103.7	155.5#
129	65.2	79.9	119.9#
131	86.9	78.4	117.6



#67
Ethyl Benzene
Concen: 0.328 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 91	Resp:	2995	
Ion	Ratio	Lower	Upper
91	100		
106	26.6	24.3	36.5

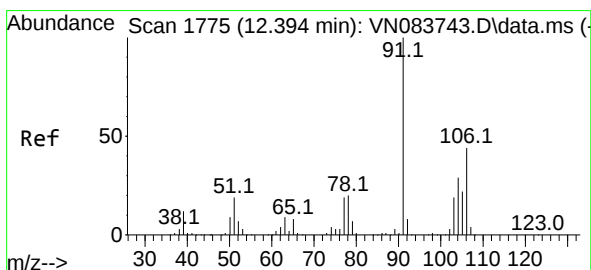
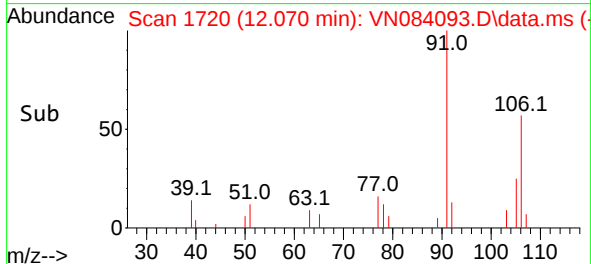
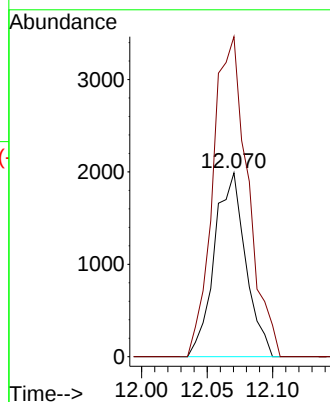
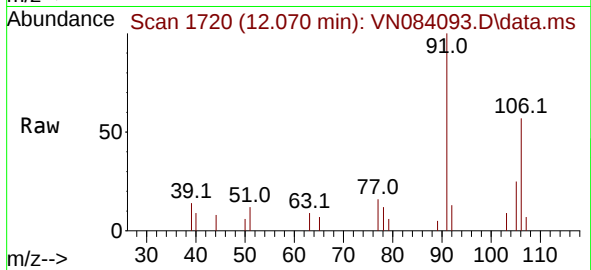




#68
m/p-Xylenes
Concen: 0.972 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

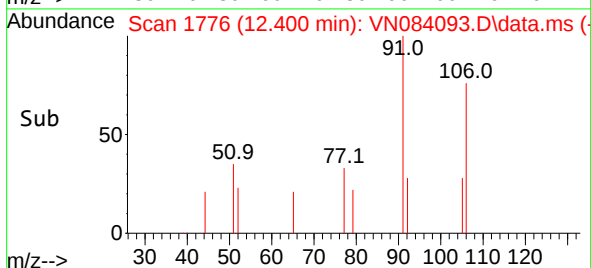
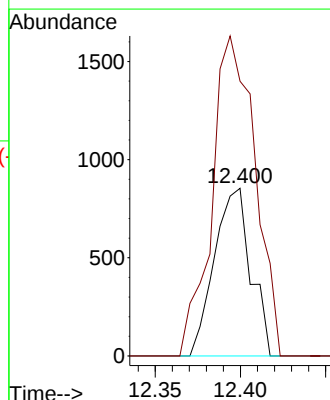
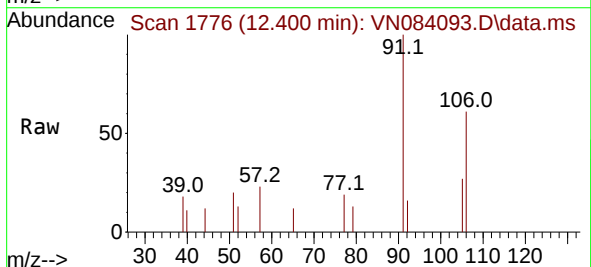
Instrument :
MSVOA_N
ClientSampleId :
910-A

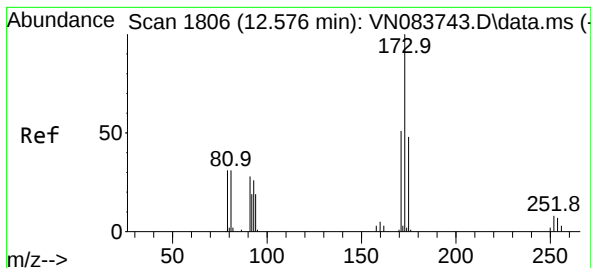
Tgt Ion:106 Resp: 3297
Ion Ratio Lower Upper
106 100
91 194.1 169.2 253.8



#69
o-Xylene
Concen: 0.386 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.006 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion:106 Resp: 1267
Ion Ratio Lower Upper
106 100
91 226.3 112.9 338.6





#71

Bromoform

Concen: 0.674 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.270 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11

Instrument :

MSVOA_N

ClientSampleId :

910-A

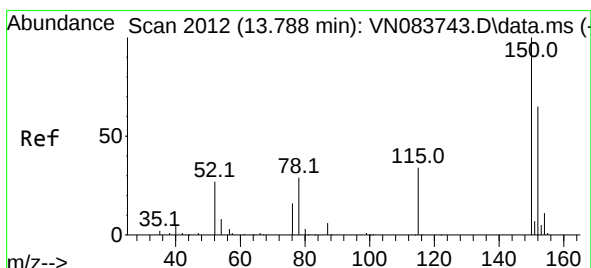
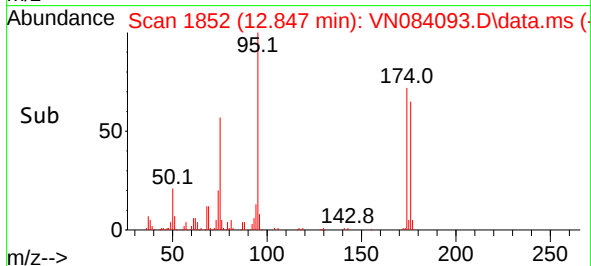
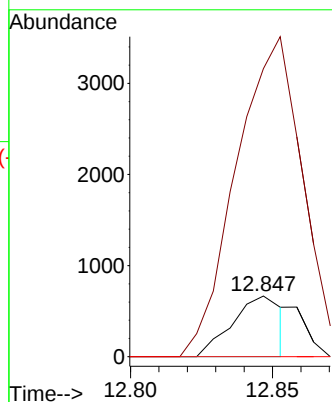
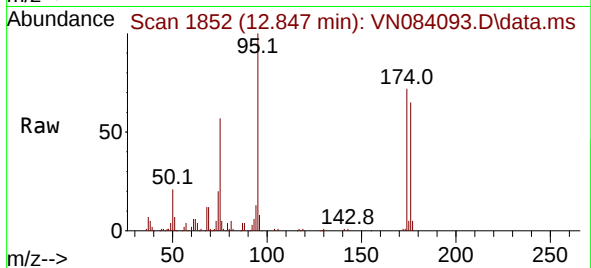
Tgt Ion:173 Resp: 810

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN084093.D

Acq: 21 Sep 2024 06:11 am

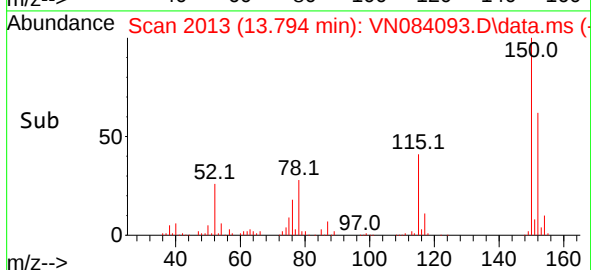
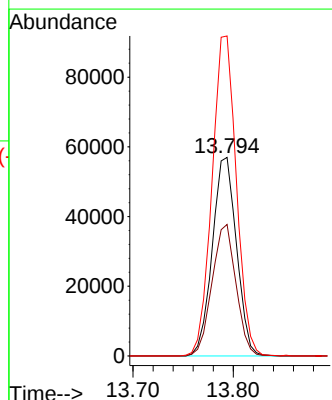
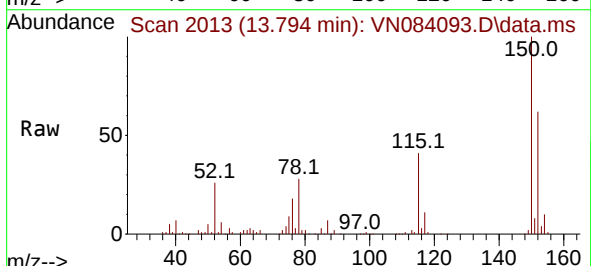
Tgt Ion:152 Resp: 95665

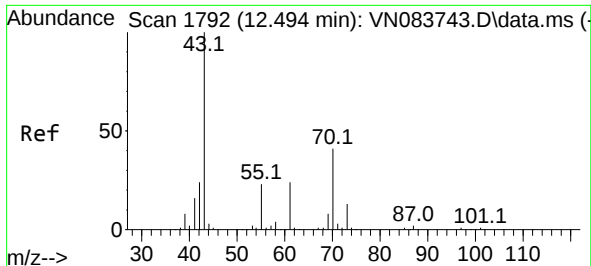
Ion Ratio Lower Upper

152 100

115 65.5 32.2 96.6

150 161.8 0.0 348.6

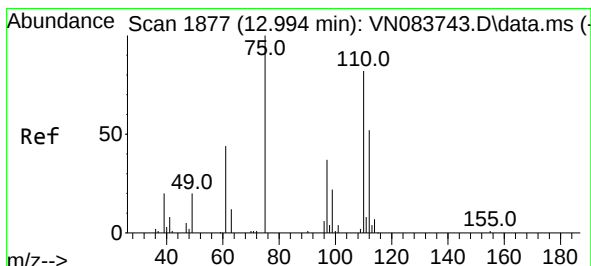
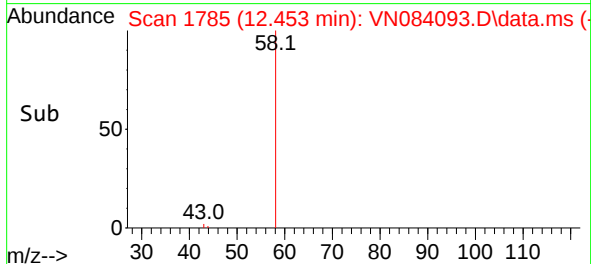
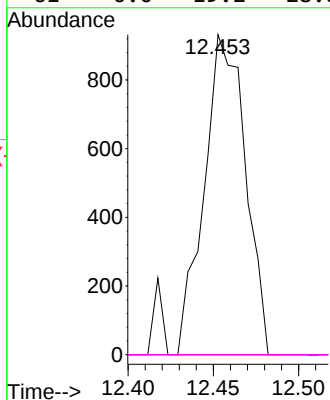
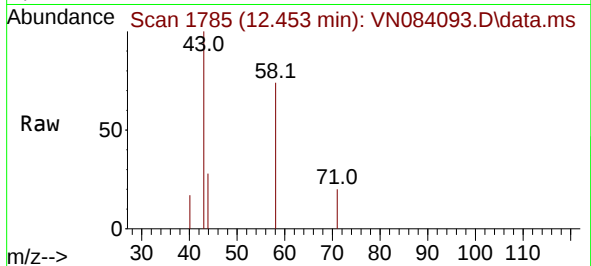




#74
N-amy1 acetate
Concen: 0.498 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

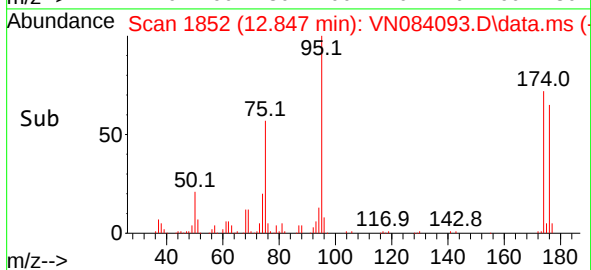
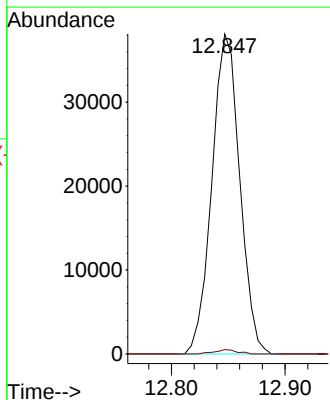
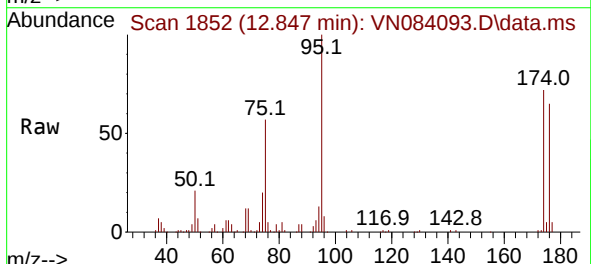
Instrument :
MSVOA_N
ClientSampleId :
910-A

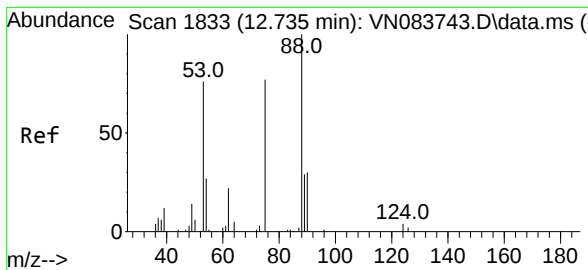
Tgt Ion: 43	Resp: 1571
Ion Ratio	Lower Upper
43	100
70	0.0 34.5 51.7#
55	0.0 18.6 28.0#
61	0.0 19.2 28.8#



#76
1,2,3-Trichloropropane
Concen: 33.605 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion: 75	Resp: 64868
Ion Ratio	Lower Upper
75	100
77	1.1 95.2 285.6#

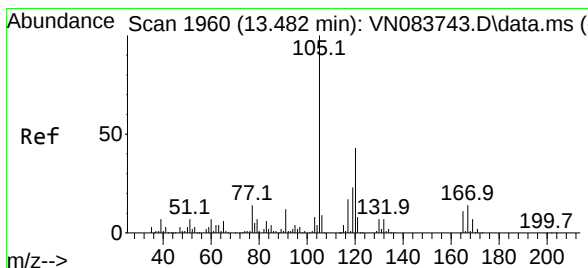
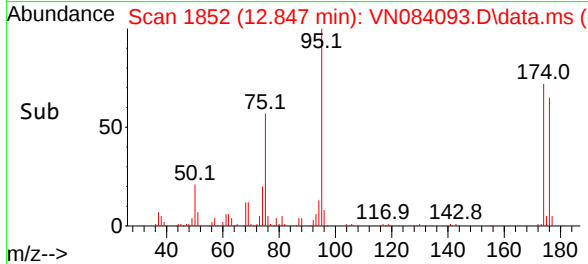
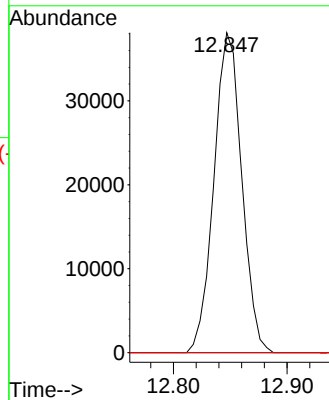
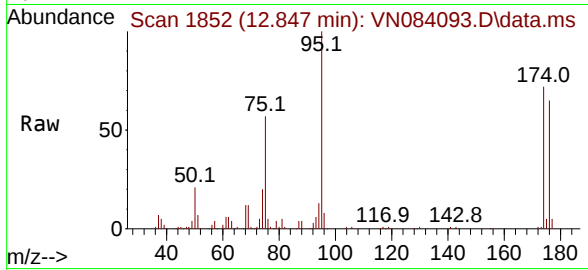




#81
trans-1,4-Dichloro-2-butene
Concen: 88.013 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11

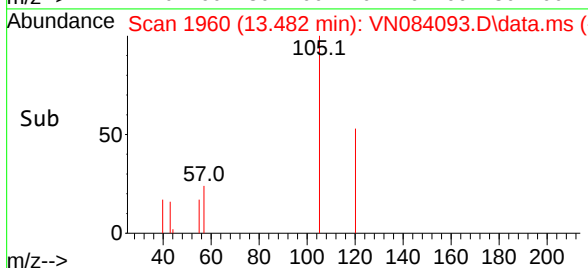
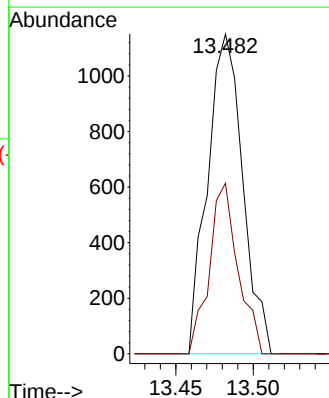
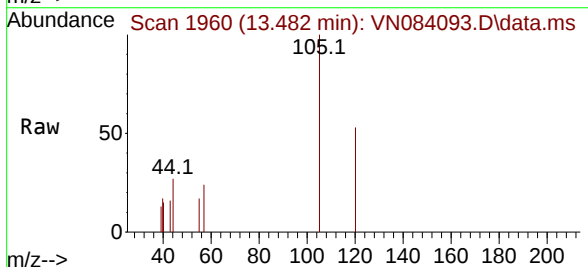
Instrument :
MSVOA_N
ClientSampleId :
910-A

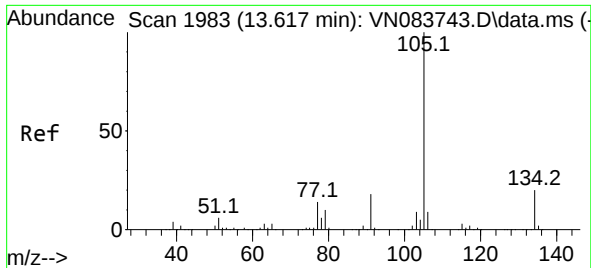
Tgt Ion: 75 Resp: 64868
Ion Ratio Lower Upper
75 100
53 0.0 81.2 121.8#
89 0.0 35.7 53.5#



#84
1,2,4-Trimethylbenzene
Concen: 0.290 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN084093.D
Acq: 21 Sep 2024 06:11 am

Tgt Ion:105 Resp: 1818
Ion Ratio Lower Upper
105 100
120 43.5 21.8 65.4





#85
 sec-Butylbenzene
 Concen: 0.251 ug/l
 RT: 13.482 min Scan# 1983
 Delta R.T. -0.135 min
 Lab File: VN084093.D
 Acq: 21 Sep 2024 06:11

Instrument :
 MSVOA_N
 ClientSampleId :
 910-A

Tgt Ion:105 Resp: 1818
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 29.1#

