

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086426.D
 Acq On : 30 Apr 2025 10:51
 Operator : JC\MD
 Sample : VN0430MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

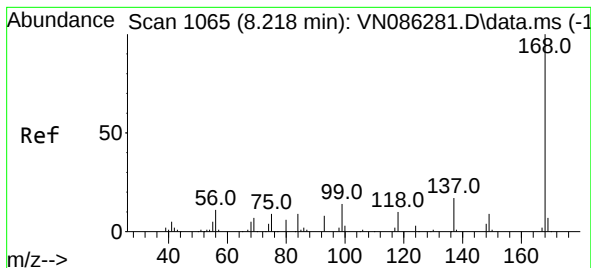
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0430MBL01

Quant Time: May 01 01:32:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	160746	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	305188	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	280450	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120410	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114003	48.908	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.820%		
35) Dibromofluoromethane	8.165	113	81831	57.773	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	115.540%		
50) Toluene-d8	10.565	98	383504	50.661	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.320%		
62) 4-Bromofluorobenzene	12.847	95	132802	48.097	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.200%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	2887	1.042	ug/l #	87
5) Bromomethane	2.983	94	871	0.733	ug/l #	68
10) Methyl Iodide	4.589	142	1157	0.594	ug/l #	88
13) Acrolein	4.177	56	136	Below Cal	#	63
15) Acrylonitrile	5.724	53	369	0.351	ug/l #	62
16) Acetone	4.430	43	2436	Below Cal		92
17) Carbon Disulfide	4.706	76	2481	0.438	ug/l #	76
18) Methyl Acetate	5.024	43	999	0.357	ug/l #	51
25) 2-Butanone	7.494	43	746	0.514	ug/l #	48
29) Tetrahydrofuran	7.853	42	687	0.708	ug/l #	46
31) Cyclohexane	8.224	56	3853	1.020	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13368	4.725	ug/l #	50
38) Carbon Tetrachloride	8.224	117	16652	6.181	ug/l #	16
43) Isopropyl Acetate	8.682	43	5302	Below Cal	#	55
51) 4-Methyl-2-Pentanone	10.435	43	936	0.307	ug/l #	35
59) 2-Hexanone	11.188	43	1155	0.511	ug/l	90
76) 1,2,3-Trichloropropane	12.847	75	68694	24.175	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68694	58.060	ug/l #	10
82) 4-Chlorotoluene	13.223	91	1606	0.223	ug/l	90
85) sec-Butylbenzene	13.612	105	2372	0.245	ug/l	96
86) p-Isopropyltoluene	13.723	119	2017	0.253	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	1204	0.293	ug/l	81
88) 1,4-Dichlorobenzene	13.735	146	1204	0.291	ug/l	82
89) n-Butylbenzene	14.053	91	3286	0.464	ug/l	98
91) 1,2-Dichlorobenzene	14.112	146	1007	0.253	ug/l	96
93) 1,2,4-Trichlorobenzene	15.382	180	1726	0.906	ug/l	89
94) Hexachlorobutadiene	15.494	225	911	1.267	ug/l	92
95) Naphthalene	15.635	128	9330	1.382	ug/l	97
96) 1,2,3-Trichlorobenzene	15.835	180	1936	1.074	ug/l	93

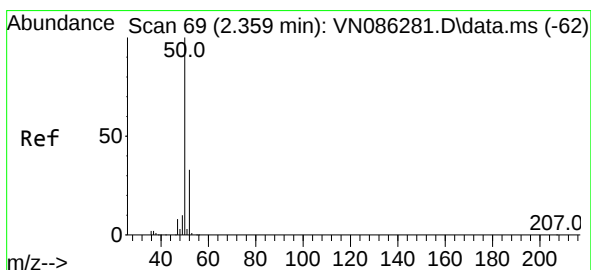
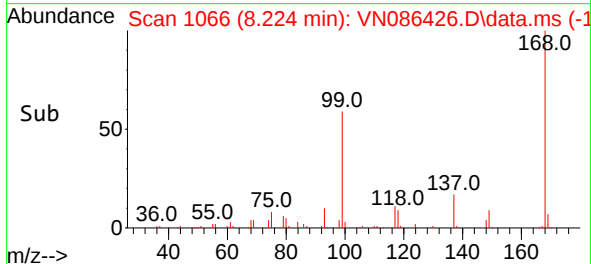
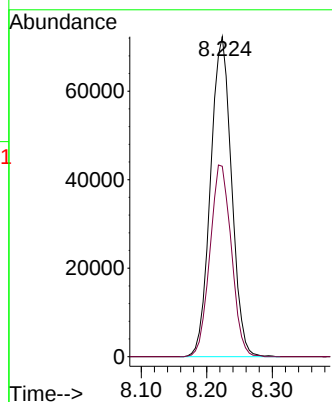
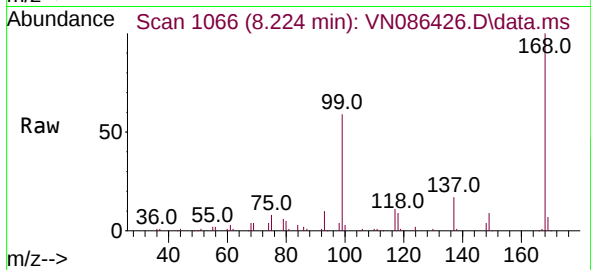
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

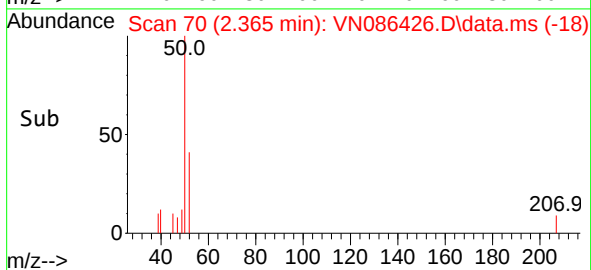
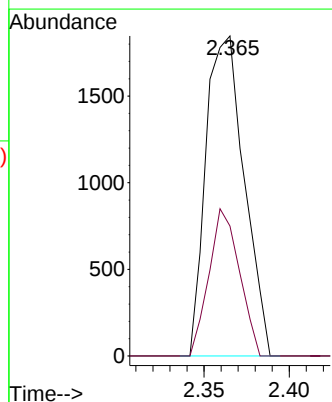
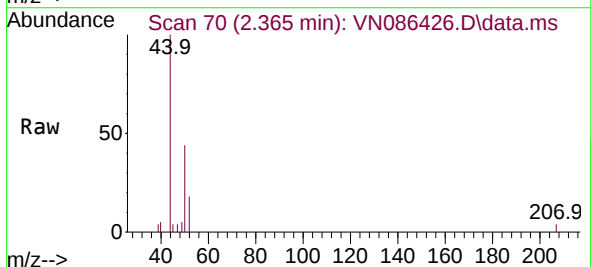
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

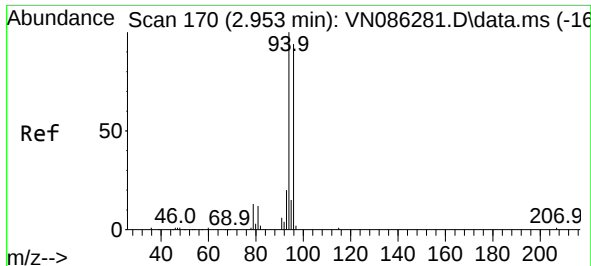
Tgt Ion:168 Resp: 160746
Ion Ratio Lower Upper
168 100
99 59.5 52.5 78.7



#3
Chloromethane
Concen: 1.042 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 50 Resp: 2887
Ion Ratio Lower Upper
50 100
52 40.6 26.5 39.7#

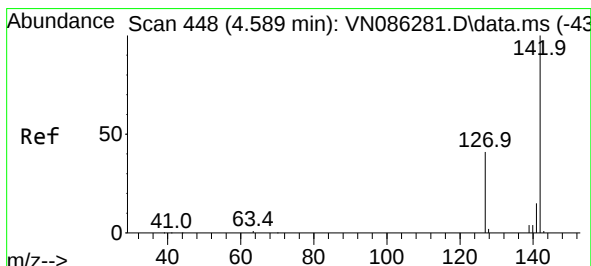
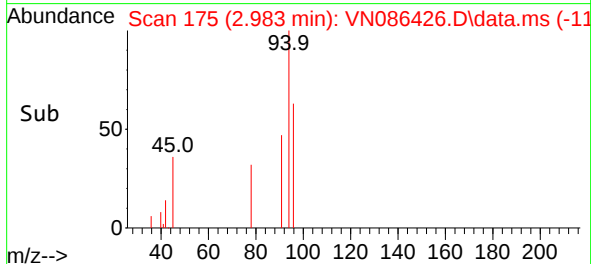
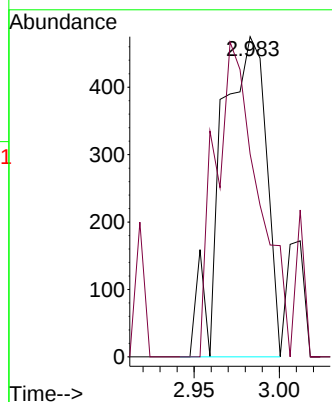
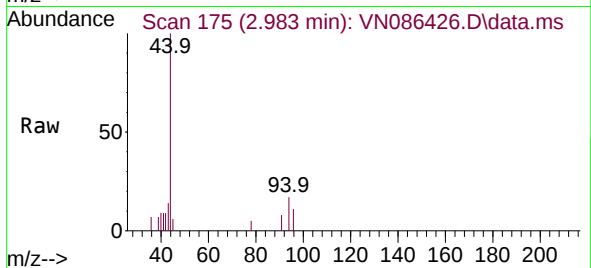




#5
Bromomethane
Concen: 0.733 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

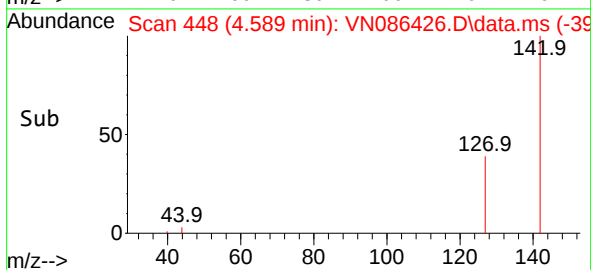
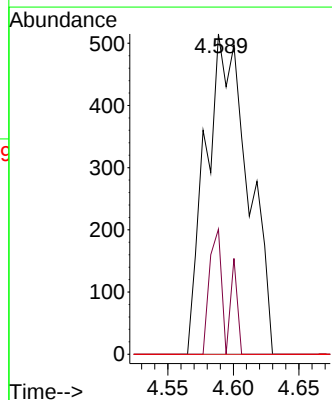
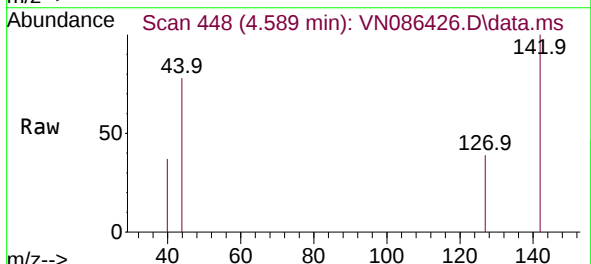
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

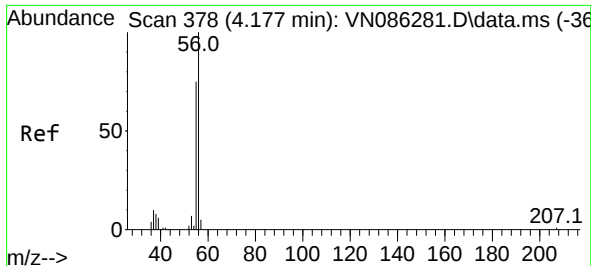
Tgt Ion: 94 Resp: 871
Ion Ratio Lower Upper
94 100
96 63.4 75.2 112.8#



#10
Methyl Iodide
Concen: 0.594 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 142 Resp: 1157
Ion Ratio Lower Upper
142 100
127 39.0 32.7 49.1
141 0.0 11.7 17.5#

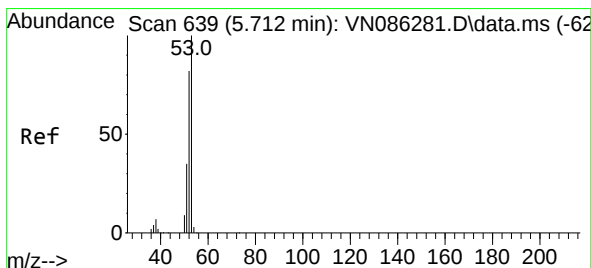
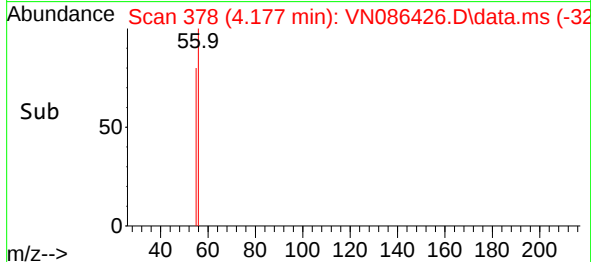
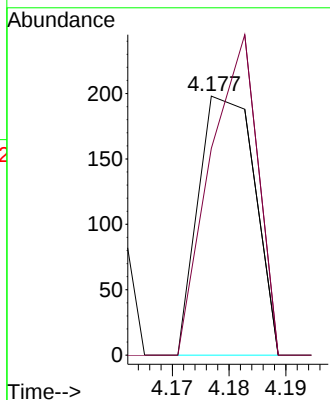
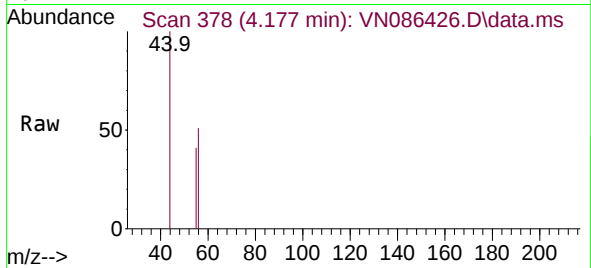




#13
Acrolein
Concen: Below Cal
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

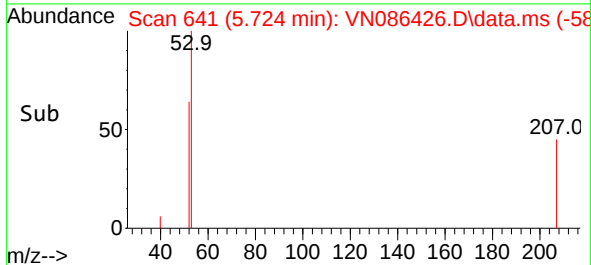
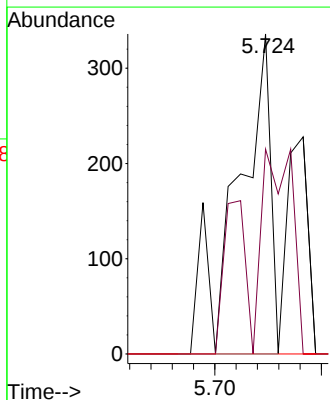
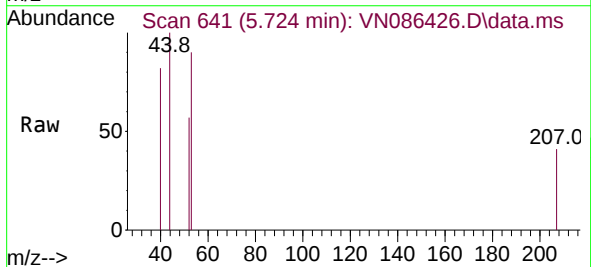
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

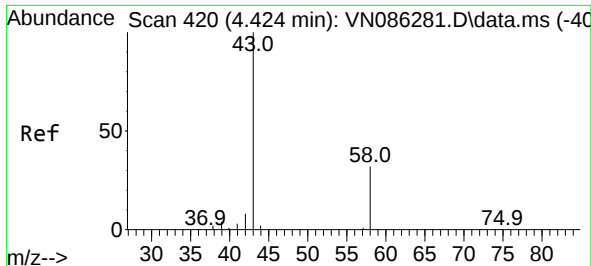
Tgt Ion: 56 Resp: 136
Ion Ratio Lower Upper
56 100
55 104.4 58.5 87.7#



#15
Acrylonitrile
Concen: 0.351 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.012 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 53 Resp: 369
Ion Ratio Lower Upper
53 100
52 57.2 65.5 98.3#
51 0.0 28.6 42.8#

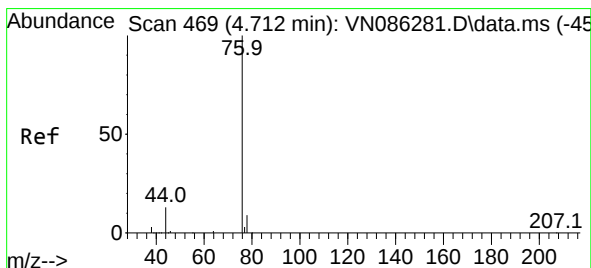
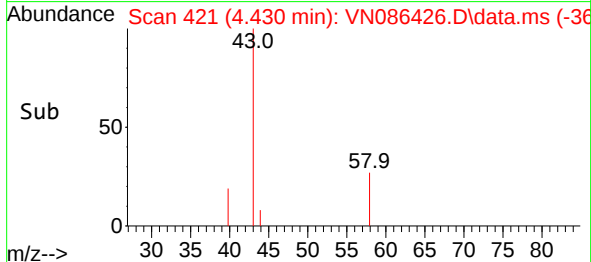
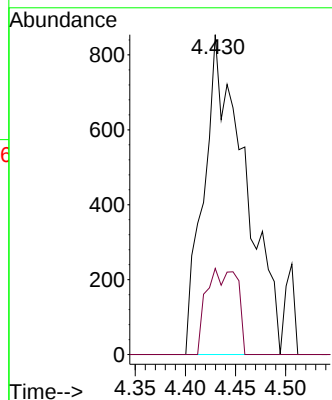
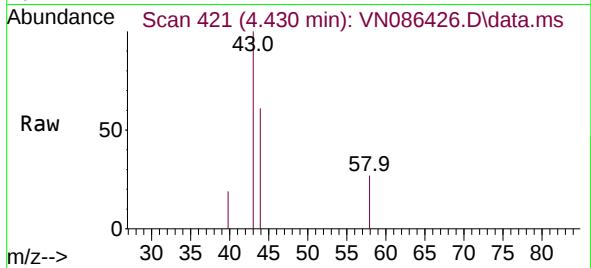




#16
Acetone
Concen: Below Cal
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

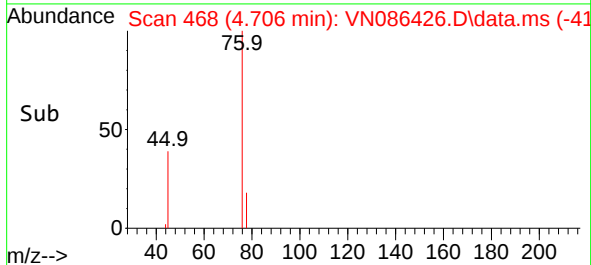
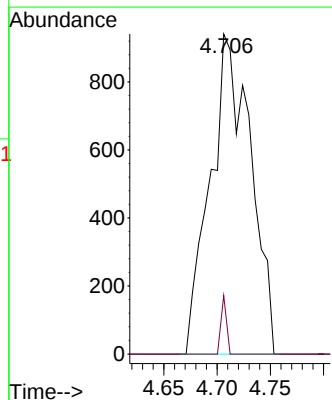
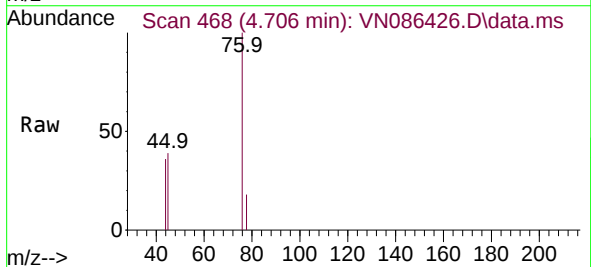
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

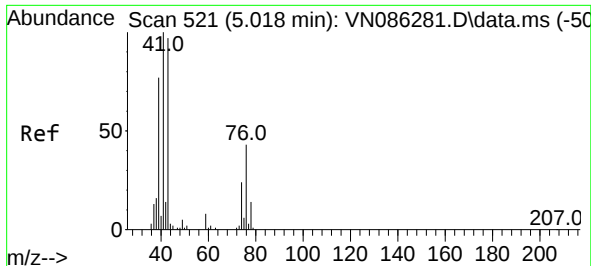
Tgt Ion: 43 Resp: 2436
Ion Ratio Lower Upper
43 100
58 26.9 25.3 37.9



#17
Carbon Disulfide
Concen: 0.438 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

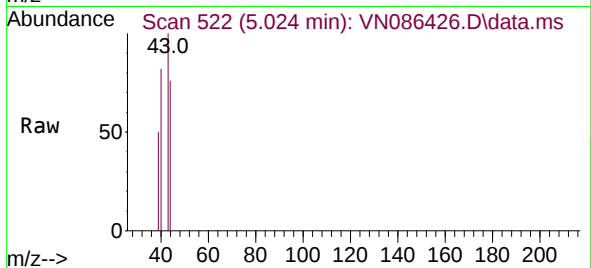
Tgt Ion: 76 Resp: 2481
Ion Ratio Lower Upper
76 100
78 18.3 7.6 11.4#



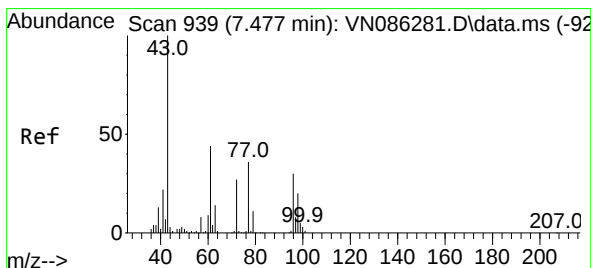
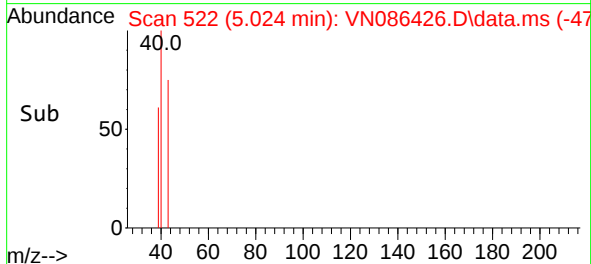
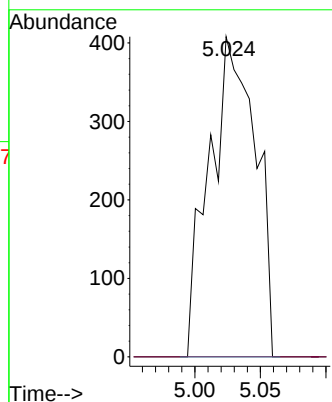


#18
Methyl Acetate
Concen: 0.357 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

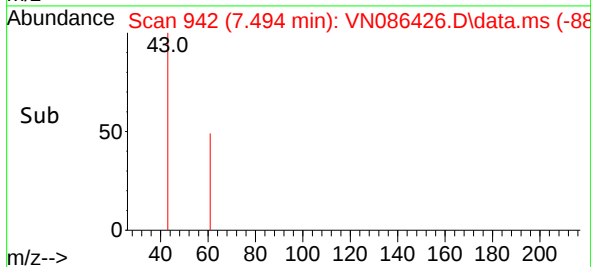
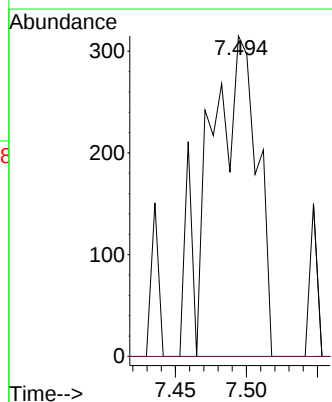
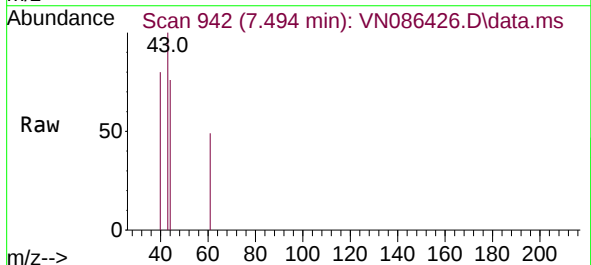


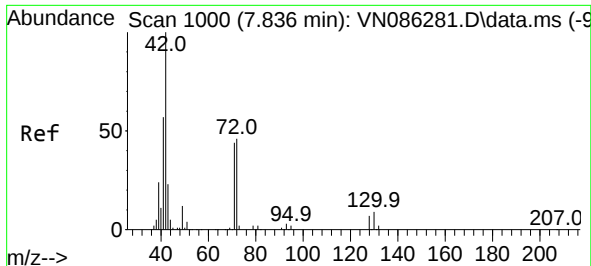
Tgt Ion: 43 Resp: 999
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#25
2-Butanone
Concen: 0.514 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 43 Resp: 746
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#





#29

Tetrahydrofuran

Concen: 0.708 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.018 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0430MBL01

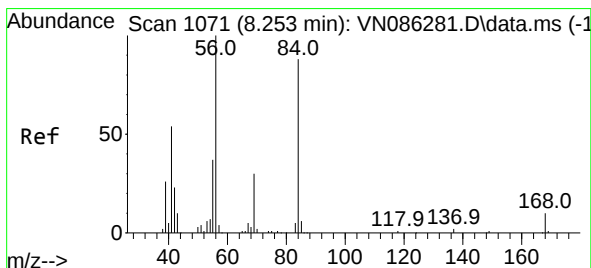
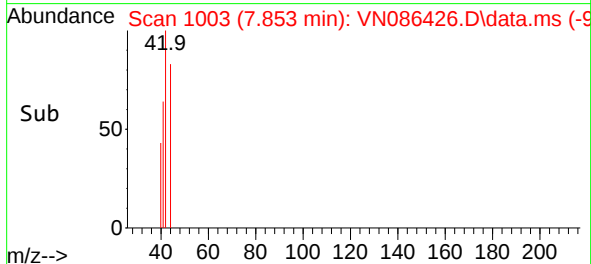
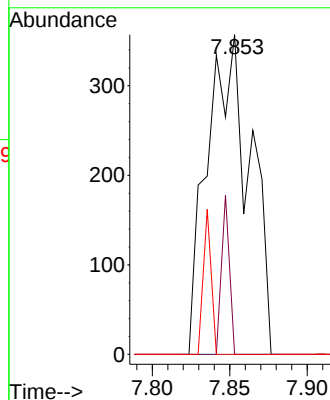
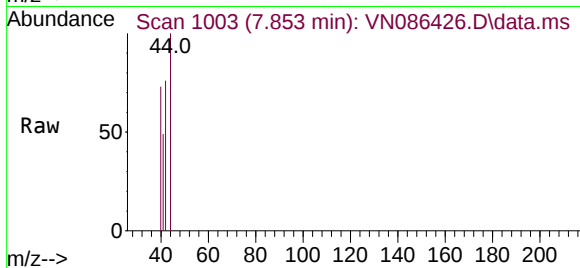
Tgt Ion: 42 Resp: 687

Ion Ratio Lower Upper

42 100

72 9.2 36.2 54.4#

71 8.3 34.0 51.0#



#31

Cyclohexane

Concen: 1.020 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

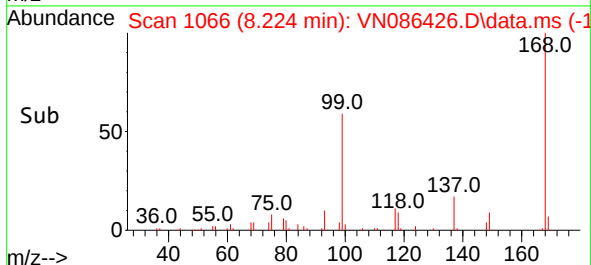
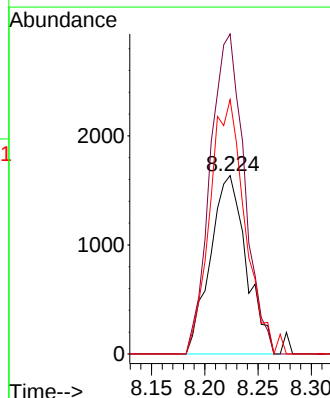
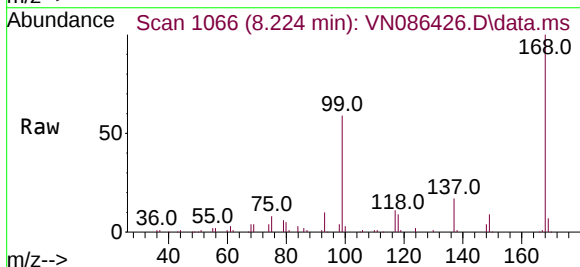
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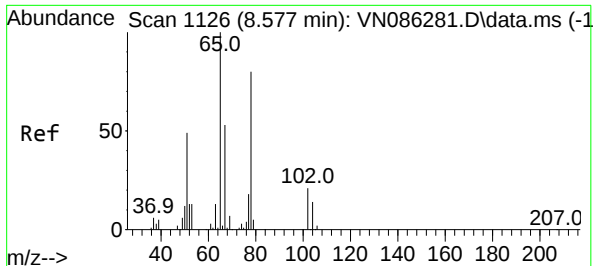
Ion Ratio Lower Upper

56 100

69 179.3 24.2 36.2#

84 142.5 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.908 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

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ClientSampleId :

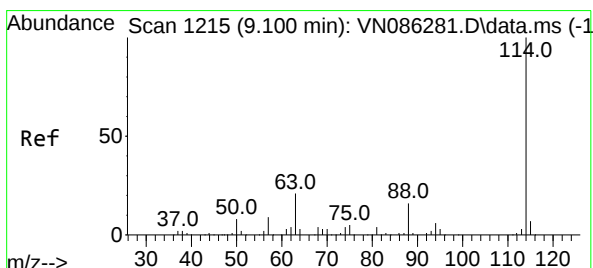
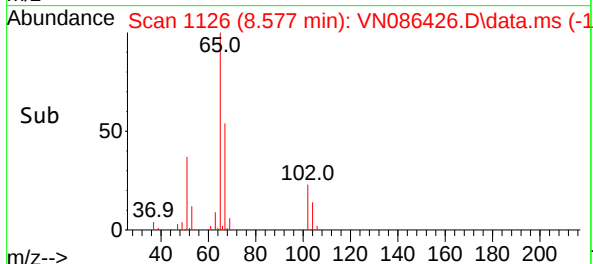
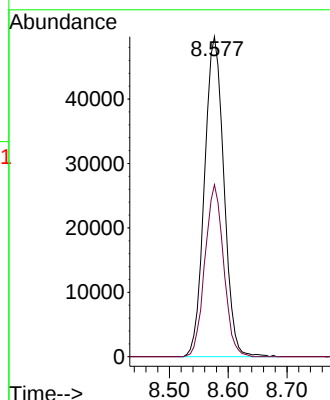
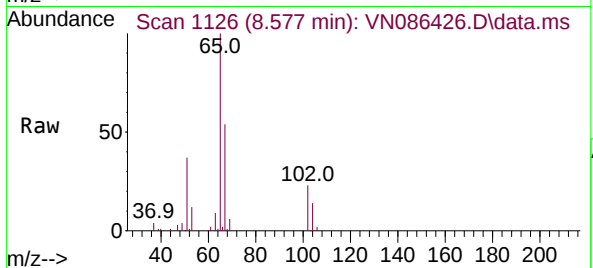
VN0430MBL01

Tgt Ion: 65 Resp: 114003

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

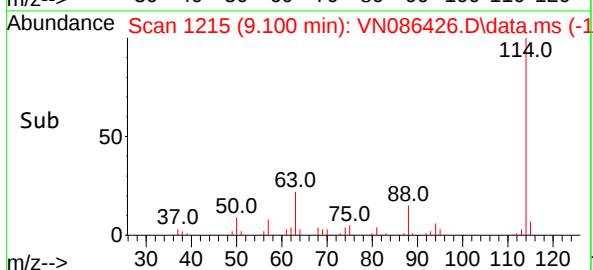
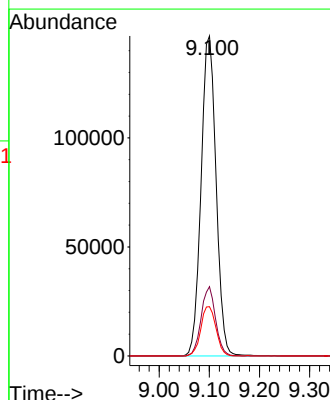
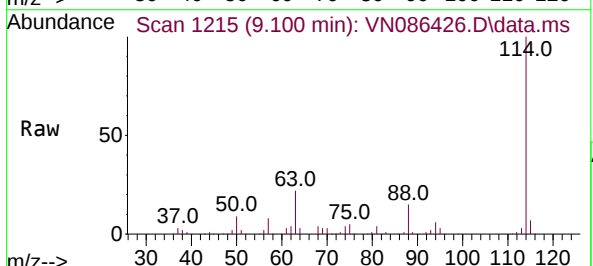
Tgt Ion: 114 Resp: 305188

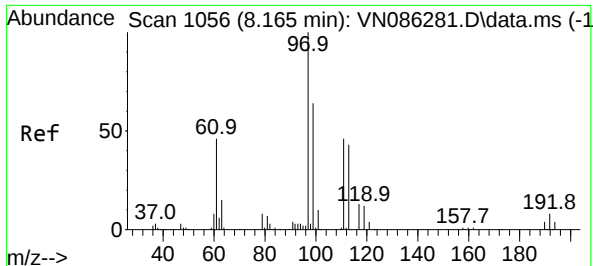
Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.6

88 15.4 0.0 31.8





#35

Dibromofluoromethane

Concen: 57.773 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0430MBL01

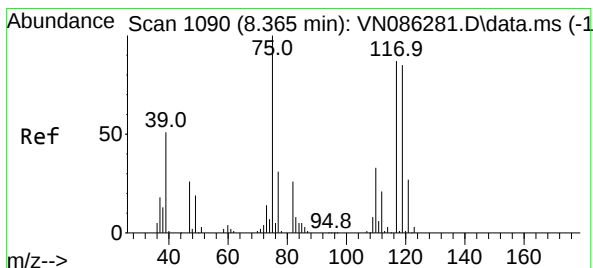
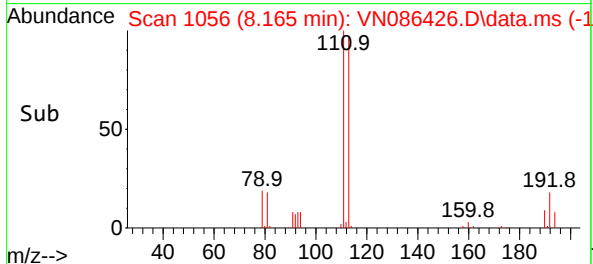
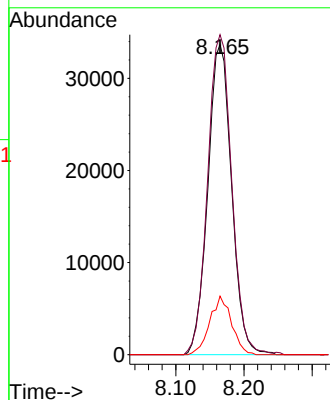
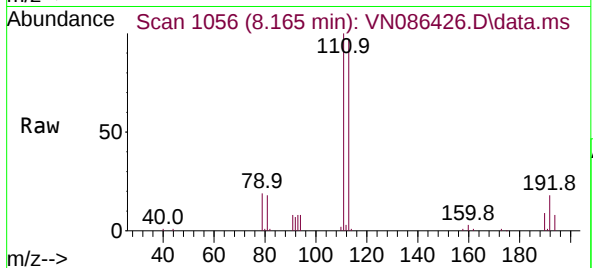
Tgt Ion:113 Resp: 81831

Ion Ratio Lower Upper

113 100

111 104.6 83.4 125.0

192 17.3 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.725 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

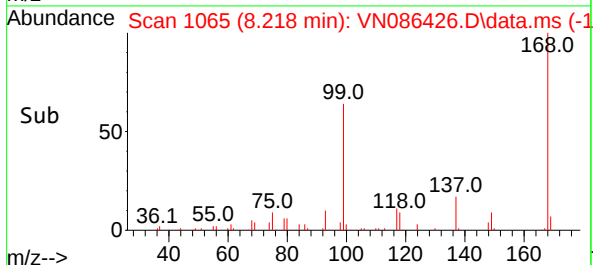
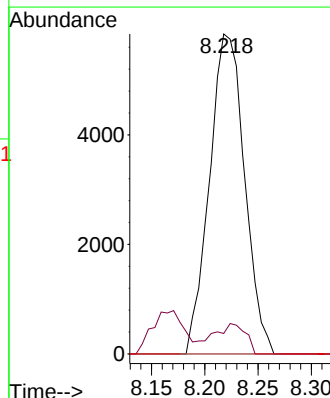
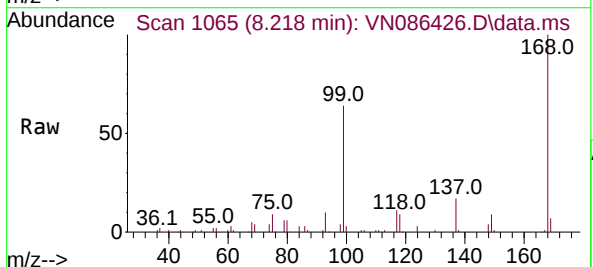
Tgt Ion: 75 Resp: 13368

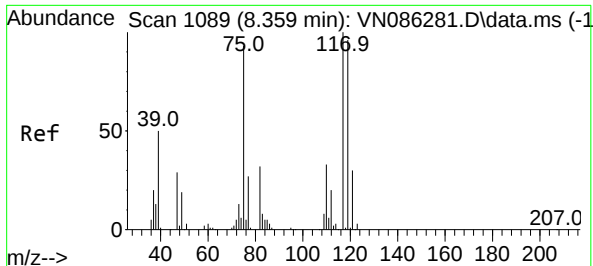
Ion Ratio Lower Upper

75 100

110 8.6 16.8 50.4#

77 0.0 24.9 37.3#

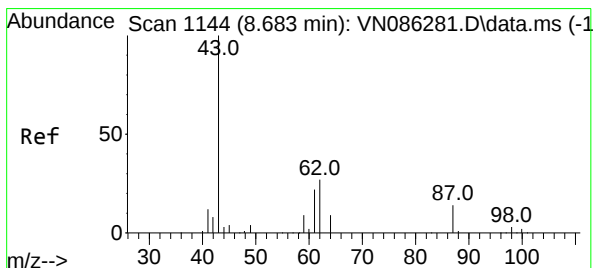
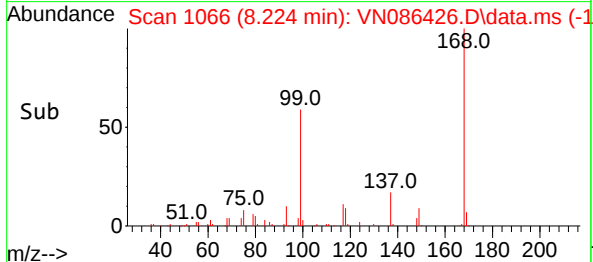
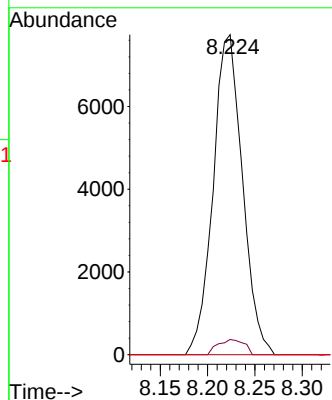
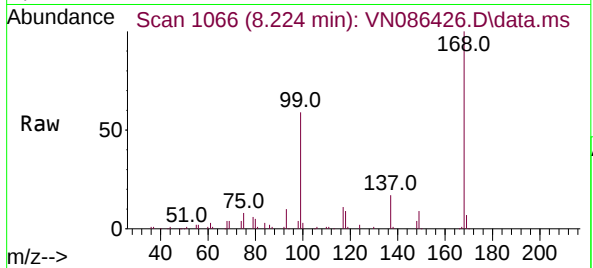




#38
Carbon Tetrachloride
Concen: 6.181 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

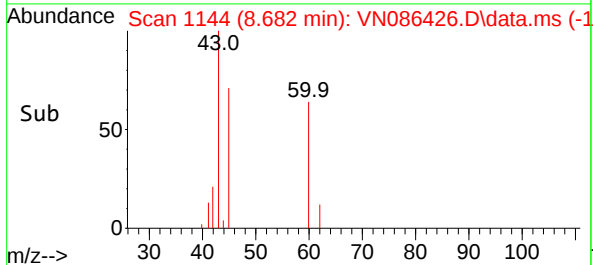
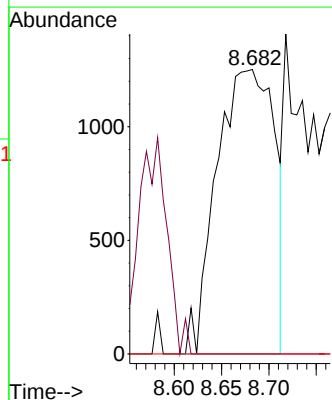
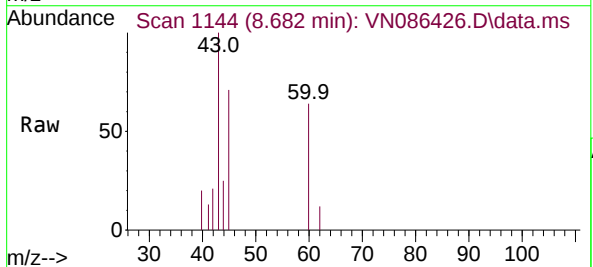
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

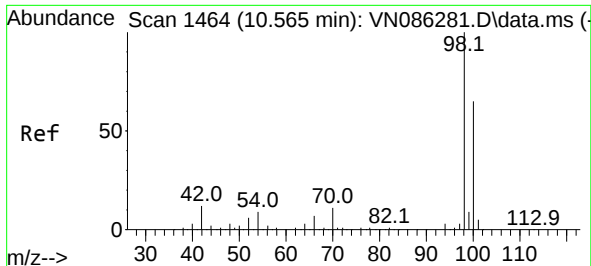
Tgt Ion:117 Resp: 16652
Ion Ratio Lower Upper
117 100
119 4.8 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 43 Resp: 5302
Ion Ratio Lower Upper
43 100
61 0.0 20.5 30.7#
87 0.0 10.5 15.7#

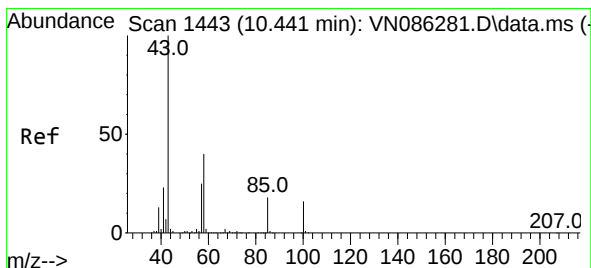
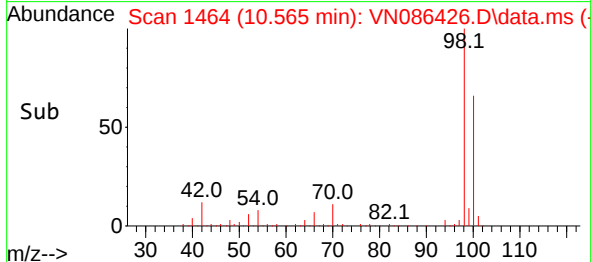
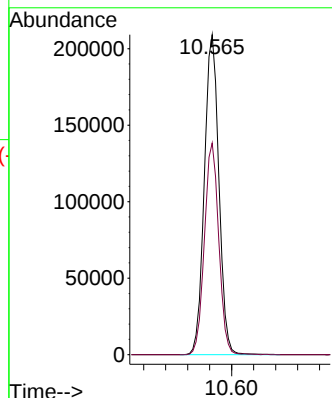
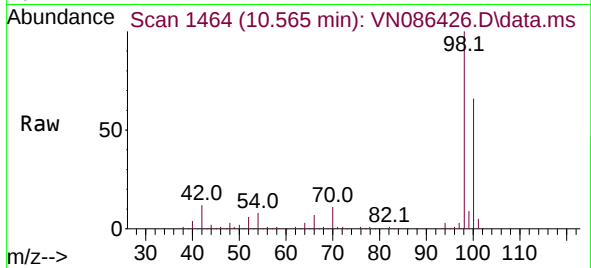




#50
Toluene-d8
Concen: 50.661 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

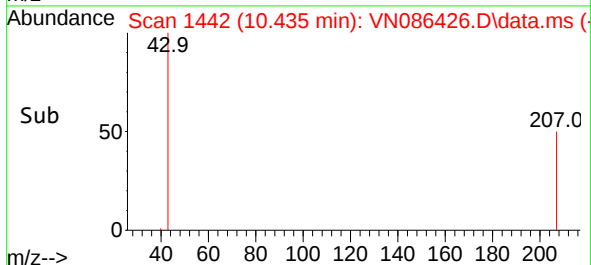
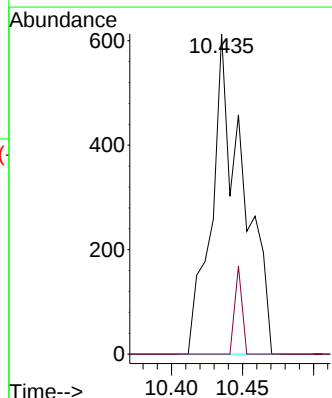
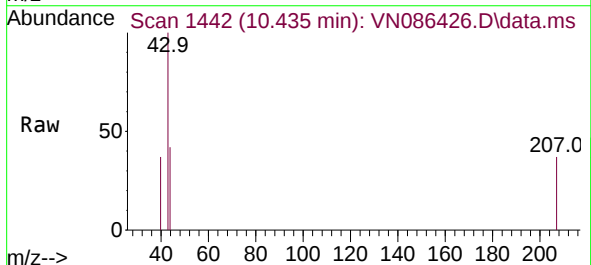
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

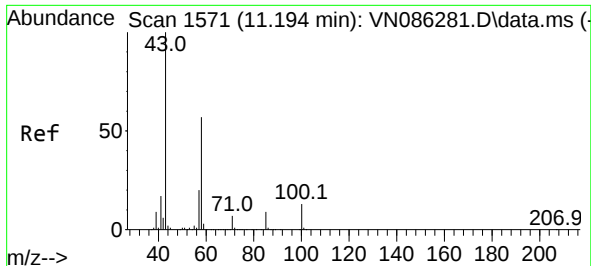
Tgt Ion: 98 Resp: 383504
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.307 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 43 Resp: 936
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#

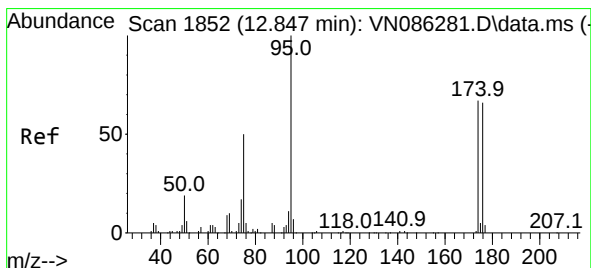
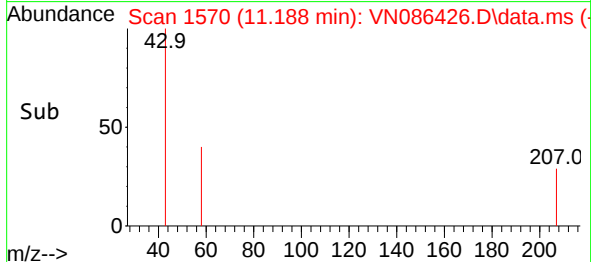
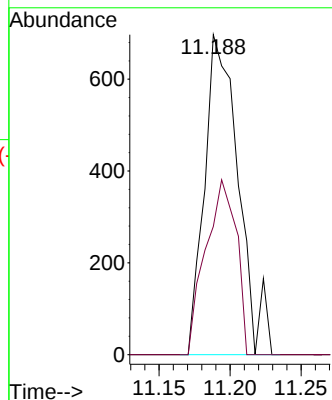
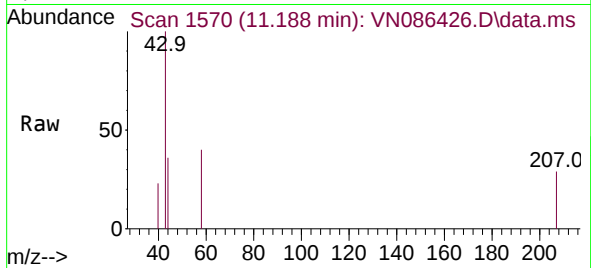




#59
2-Hexanone
Concen: 0.511 ug/l
RT: 11.188 min Scan# 1155
Delta R.T. -0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

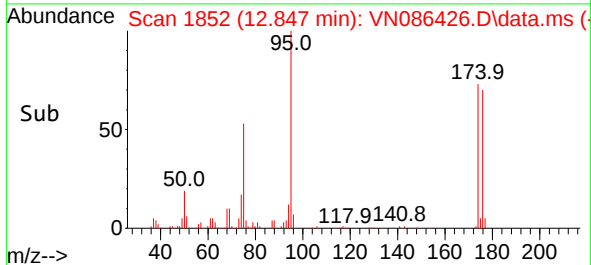
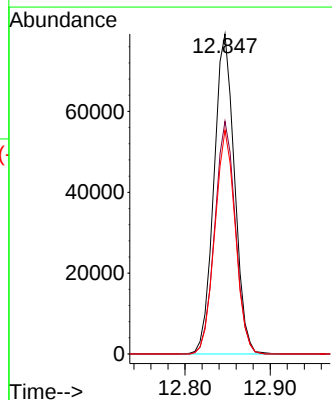
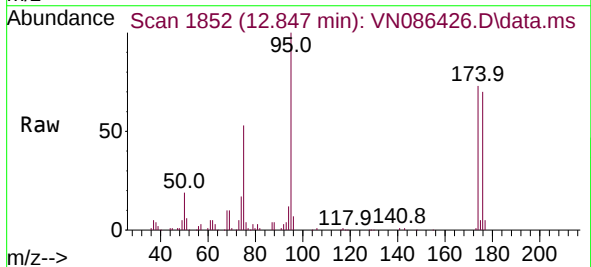
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

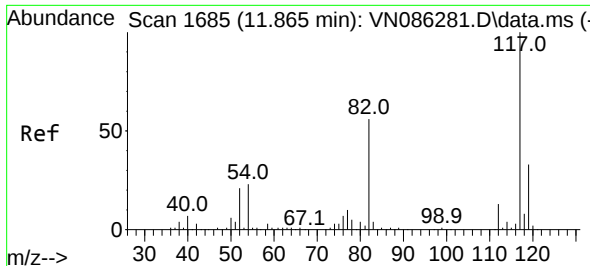
Tgt Ion: 43 Resp: 1155
Ion Ratio Lower Upper
43 100
58 49.5 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 48.097 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 95 Resp: 132802
Ion Ratio Lower Upper
95 100
174 72.8 0.0 133.4
176 69.7 0.0 129.2

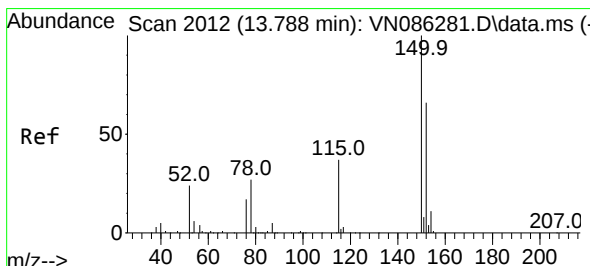
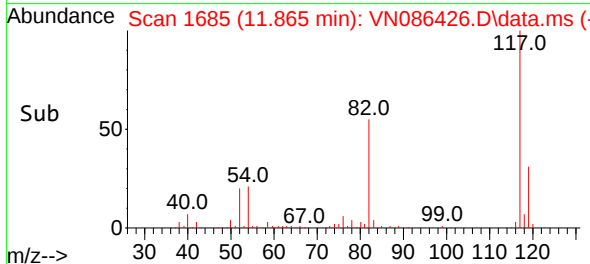
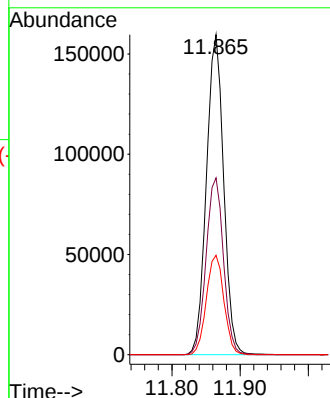
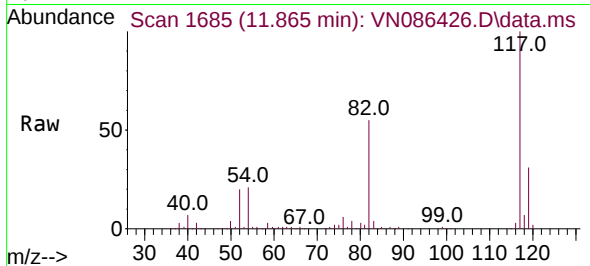




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

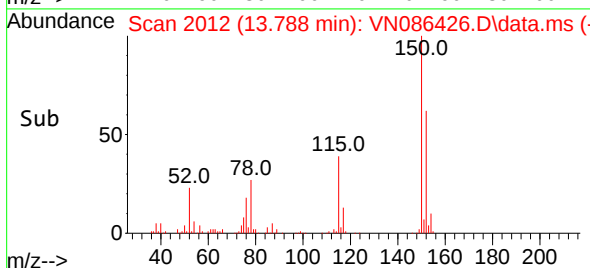
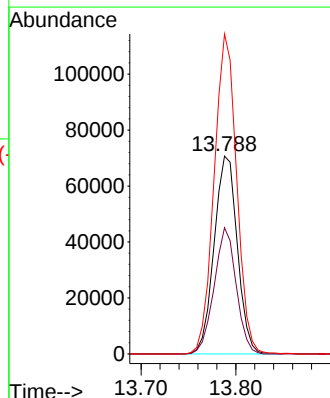
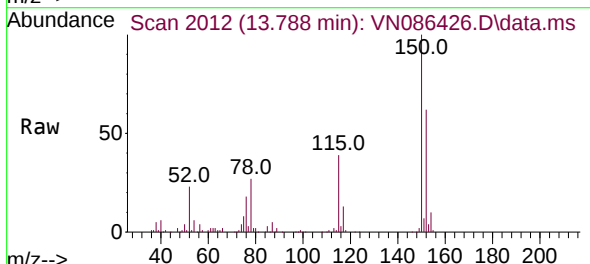
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

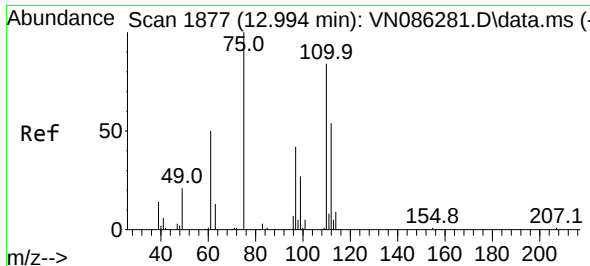
Tgt Ion:117 Resp: 280450
Ion Ratio Lower Upper
117 100
82 55.2 44.7 67.1
119 31.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion:152 Resp: 120410
Ion Ratio Lower Upper
152 100
115 60.7 31.9 95.9
150 157.0 0.0 352.0

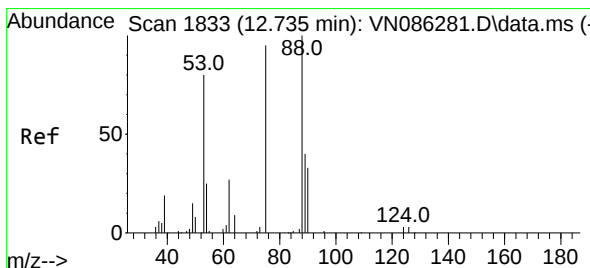
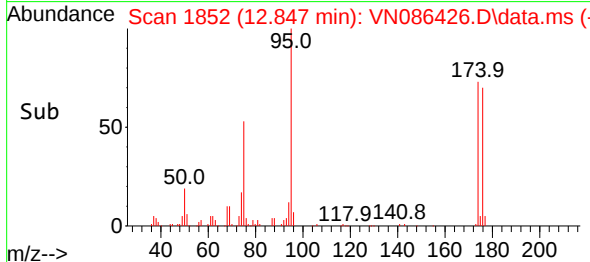
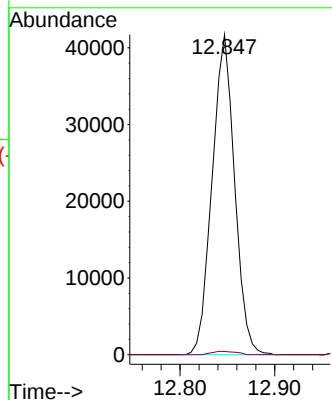
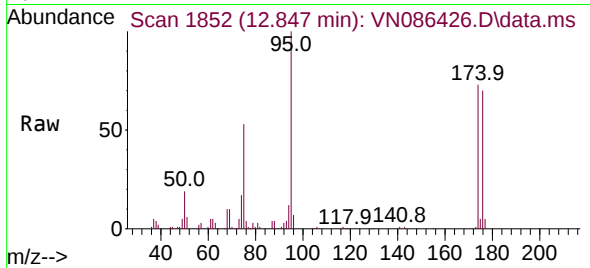




#76
1,2,3-Trichloropropane
Concen: 24.175 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

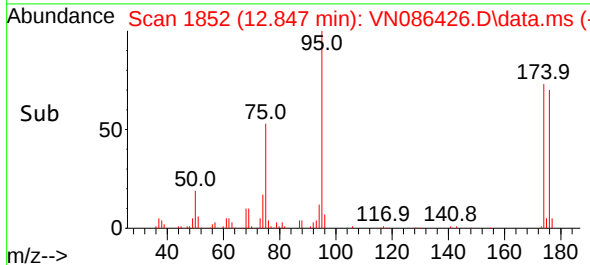
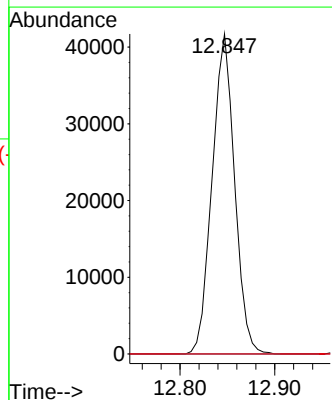
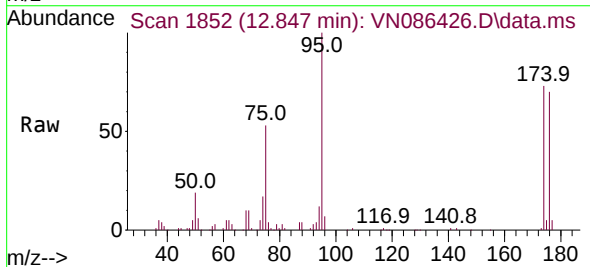
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

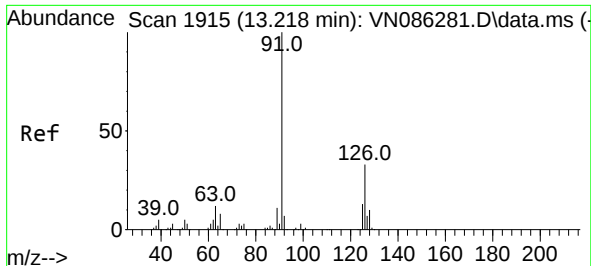
Tgt Ion: 75 Resp: 68694
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.060 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 75 Resp: 68694
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

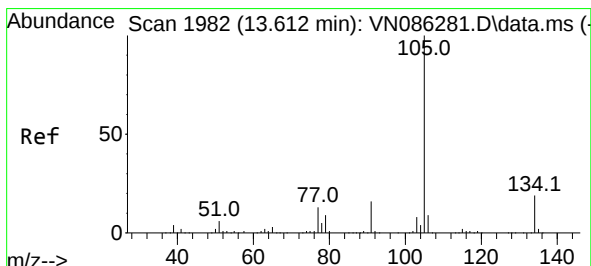
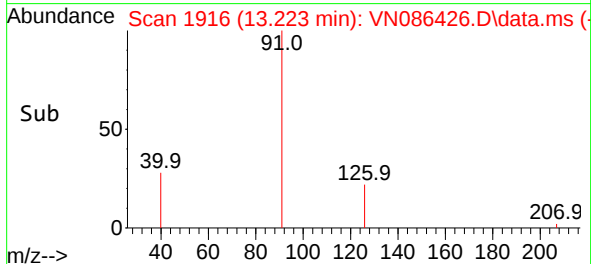
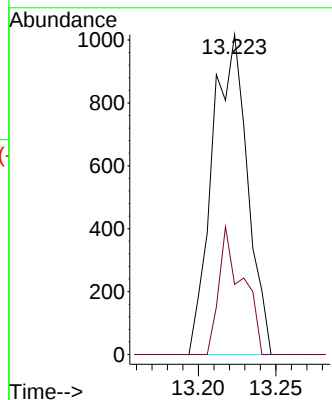
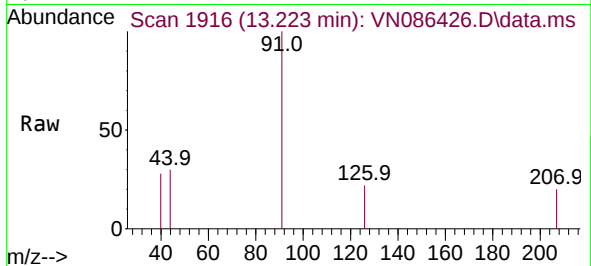




#82
4-Chlorotoluene
Concen: 0.223 ug/l
RT: 13.223 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

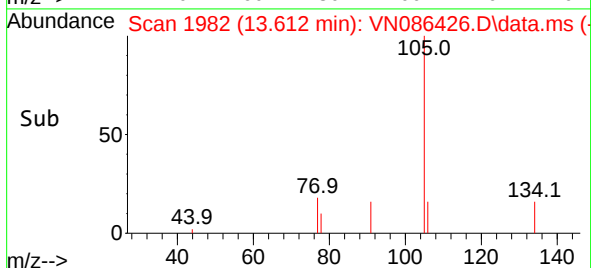
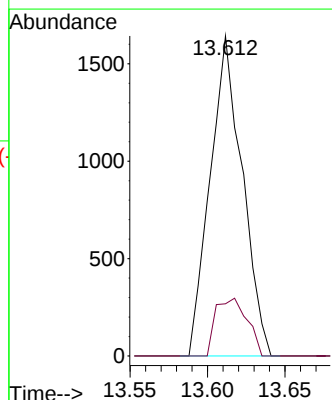
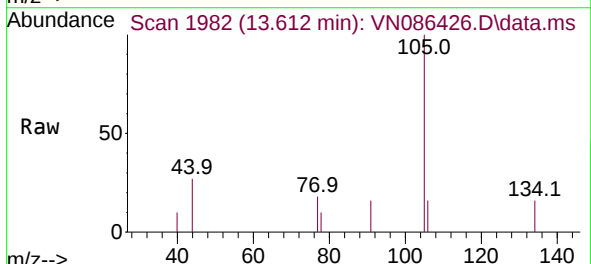
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

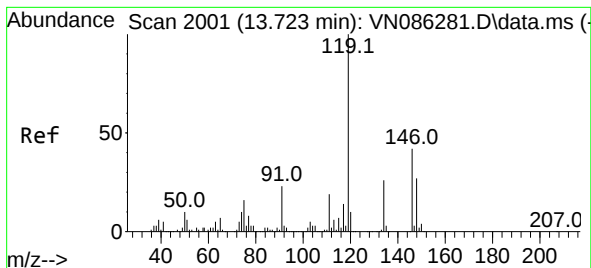
Tgt Ion: 91 Resp: 1606
Ion Ratio Lower Upper
91 100
126 26.9 16.2 48.6



#85
sec-Butylbenzene
Concen: 0.245 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 105 Resp: 2372
Ion Ratio Lower Upper
105 100
134 17.7 9.7 29.1





#86

p-Isopropyltoluene

Concen: 0.253 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.000 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0430MBL01

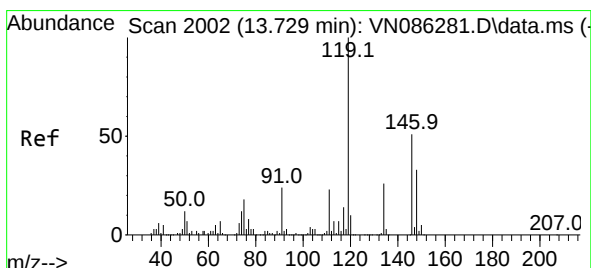
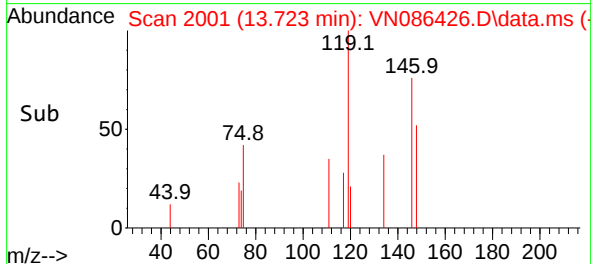
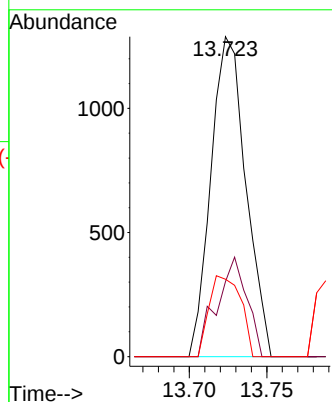
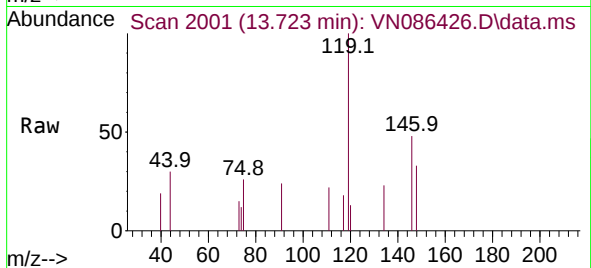
Tgt Ion:119 Resp: 2017

Ion Ratio Lower Upper

119 100

134 26.5 13.1 39.1

91 22.9 11.9 35.9



#87

1,3-Dichlorobenzene

Concen: 0.293 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

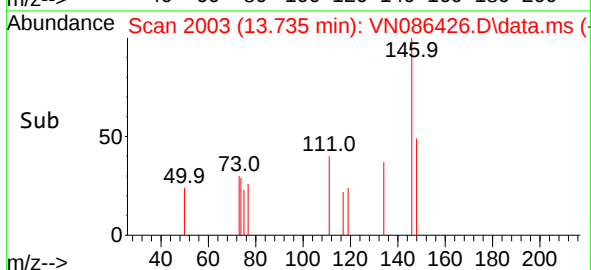
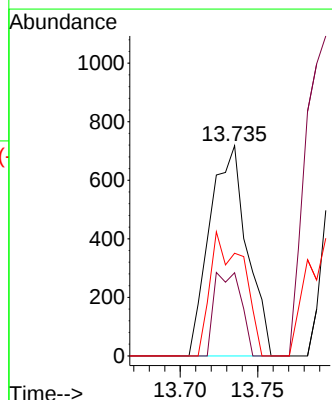
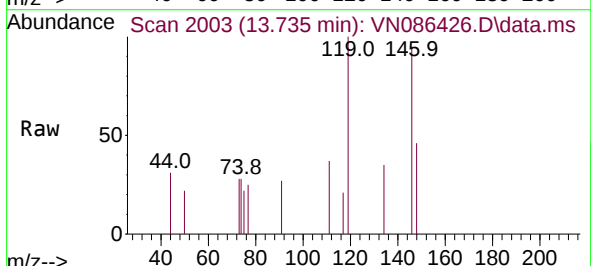
Tgt Ion:146 Resp: 1204

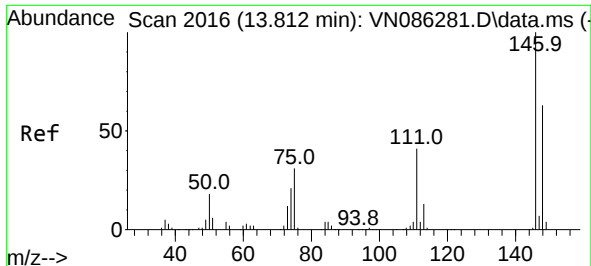
Ion Ratio Lower Upper

146 100

111 28.8 21.9 65.7

148 51.7 31.9 95.5

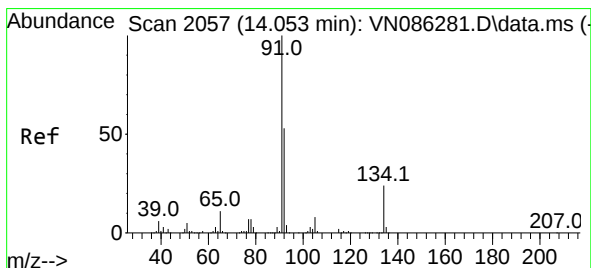
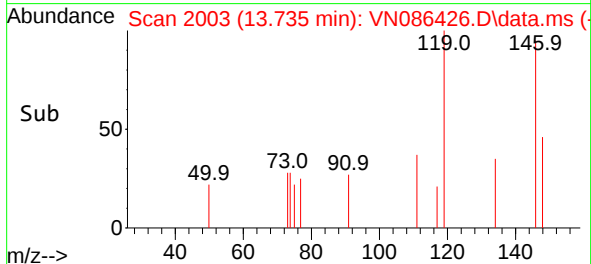
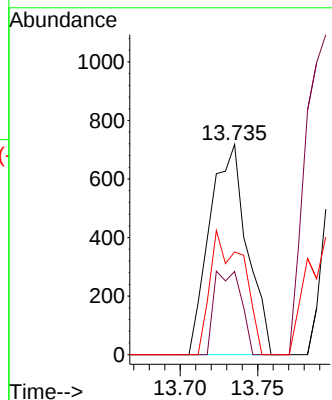
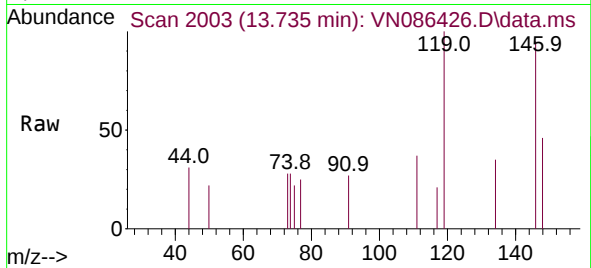




#88
1,4-Dichlorobenzene
Concen: 0.291 ug/l
RT: 13.735 min Scan# 2016
Delta R.T. -0.077 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

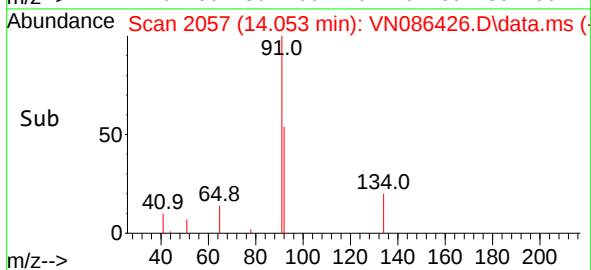
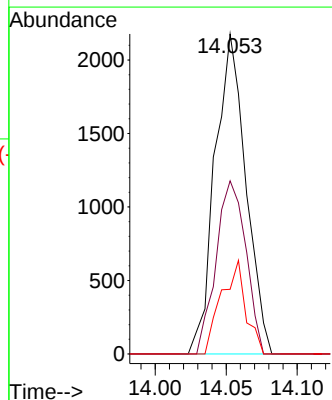
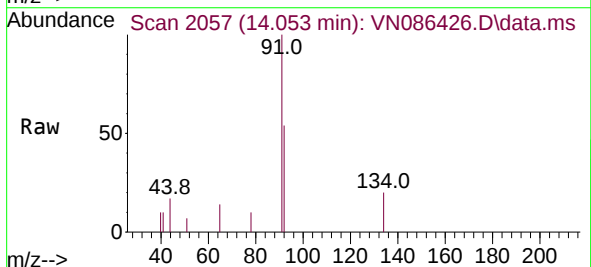
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

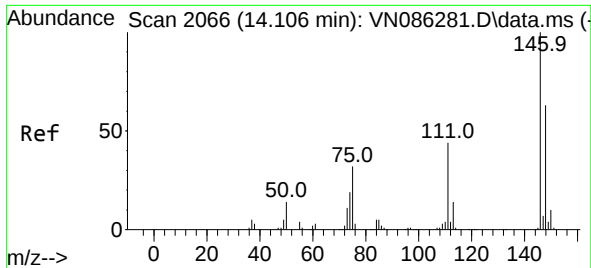
Tgt Ion:146 Resp: 1204
Ion Ratio Lower Upper
146 100
111 28.8 21.3 63.9
148 51.7 31.9 95.9



#89
n-Butylbenzene
Concen: 0.464 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion: 91 Resp: 3286
Ion Ratio Lower Upper
91 100
92 52.2 26.8 80.4
134 23.1 12.2 36.6





#91

1,2-Dichlorobenzene

Concen: 0.253 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.006 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0430MBL01

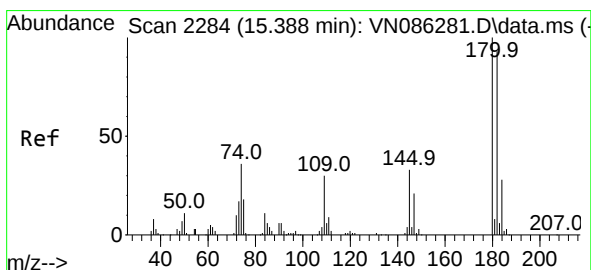
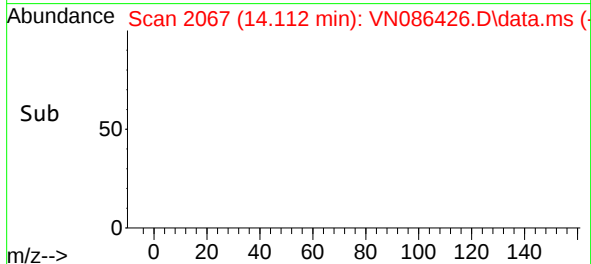
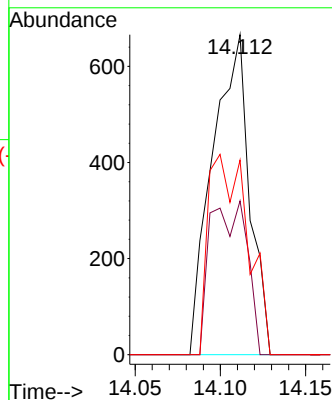
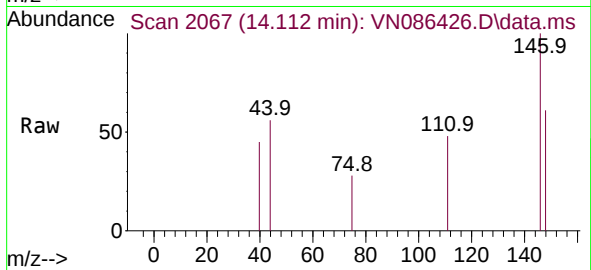
Tgt Ion:146 Resp: 1007

Ion Ratio Lower Upper

146 100

111 47.6 22.4 67.0

148 66.5 31.8 95.4



#93

1,2,4-Trichlorobenzene

Concen: 0.906 ug/l

RT: 15.382 min Scan# 2283

Delta R.T. -0.006 min

Lab File: VN086426.D

Acq: 30 Apr 2025 10:51

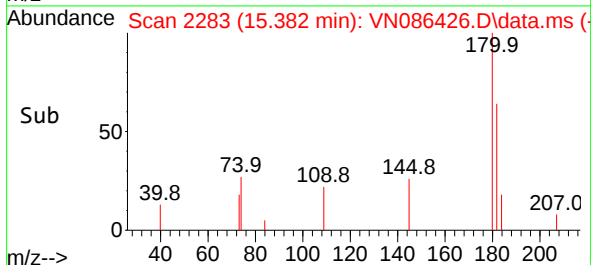
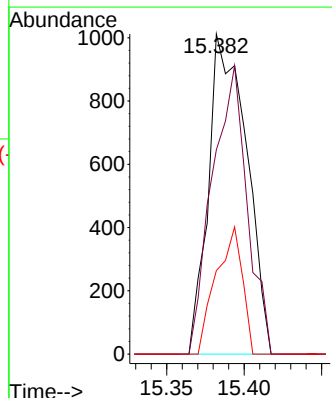
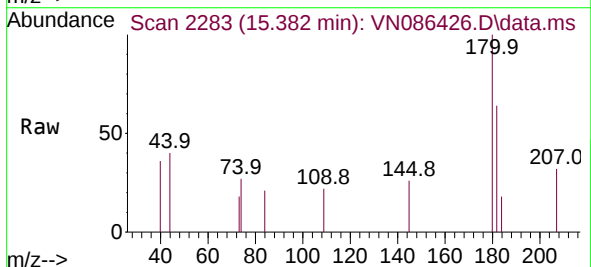
Tgt Ion:180 Resp: 1726

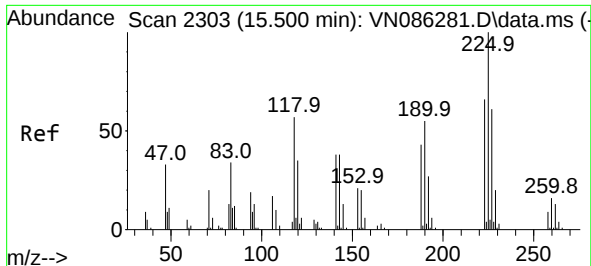
Ion Ratio Lower Upper

180 100

182 82.5 47.0 141.0

145 27.3 16.4 49.1

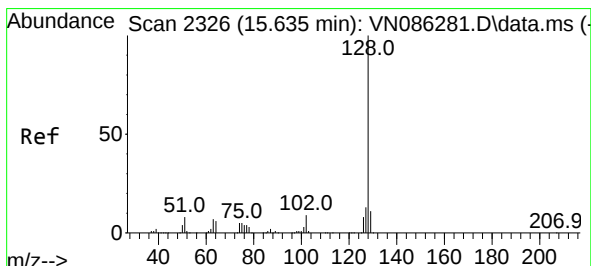
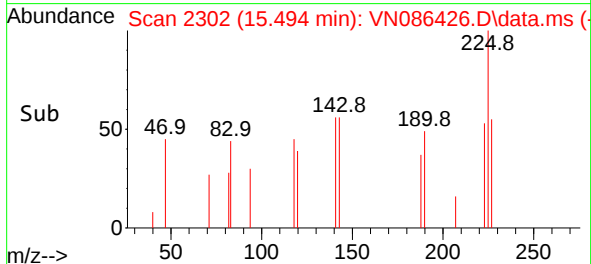
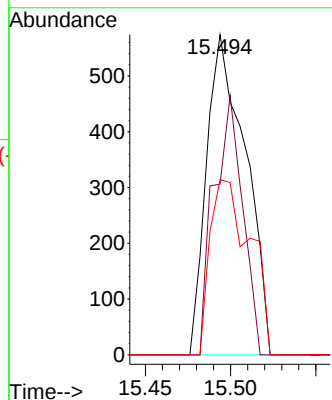
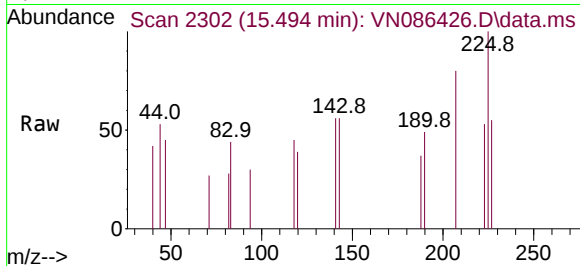




#94
Hexachlorobutadiene
Concen: 1.267 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

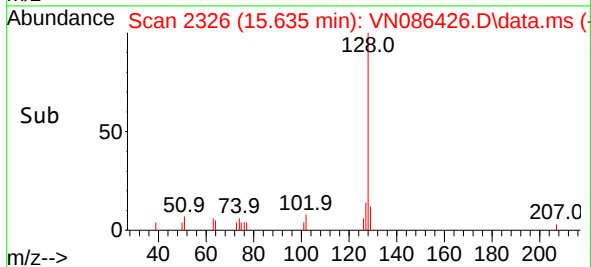
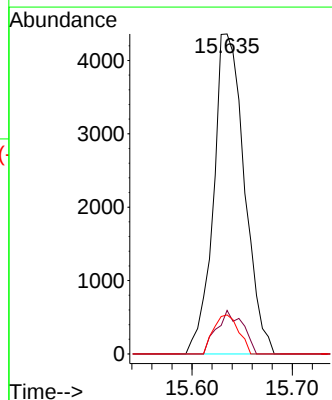
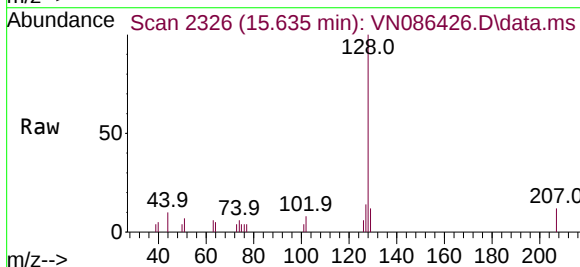
Instrument :
MSVOA_N
ClientSampleId :
VN0430MBL01

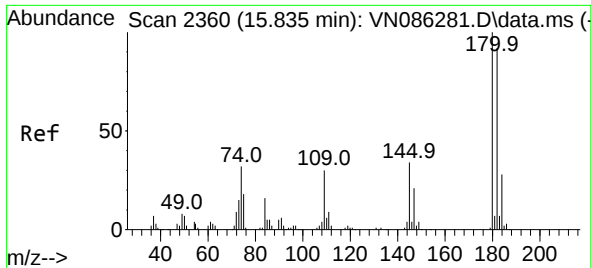
Tgt Ion:	225	Resp:	911
Ion	Ratio	Lower	Upper
225	100		
223	59.6	32.8	98.3
227	56.2	31.4	94.0



#95
Naphthalene
Concen: 1.382 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086426.D
Acq: 30 Apr 2025 10:51

Tgt Ion:	128	Resp:	9330
Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.2	15.4
129	9.9	8.6	13.0





#96

1,2,3-Trichlorobenzene

Concen: 1.074 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086426.D

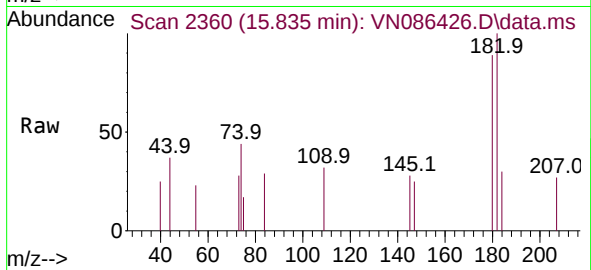
Acq: 30 Apr 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0430MBL01



Tgt Ion:180 Resp: 1936

Ion Ratio Lower Upper

180 100

182 89.2 47.3 142.0

145 27.4 17.2 51.5

