

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
 Data File : VN086134.D
 Acq On : 26 Mar 2025 18:24
 Operator : JC\MD
 Sample : Q1644-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 031925

Quant Time: Mar 27 01:43:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

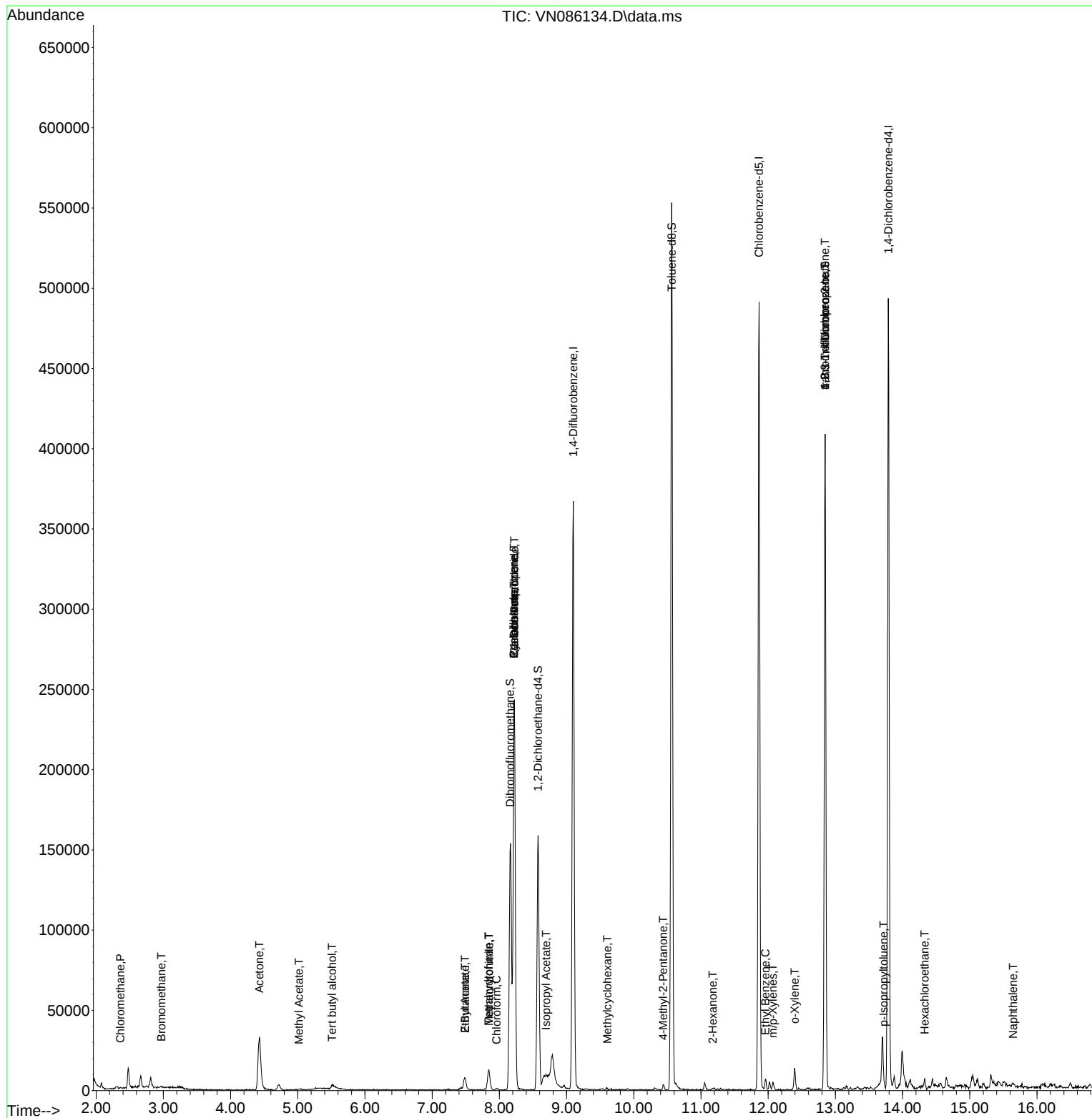
Internal Standards						
1) Pentafluorobenzene	8.218	168	176223	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	322337	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	294829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138985	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129246	53.560	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 107.120%		
35) Dibromofluoromethane	8.159	113	113762	50.564	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 101.120%		
50) Toluene-d8	10.565	98	391886	47.993	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 95.980%		
62) 4-Bromofluorobenzene	12.847	95	142239	48.845	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 97.680%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	650	0.318	ug/l #	42
5) Bromomethane	2.971	94	435	0.305	ug/l #	56
11) Tert butyl alcohol	5.512	59	4487	13.133	ug/l #	77
16) Acetone	4.430	43	61472	83.383	ug/l	95
18) Methyl Acetate	5.018	43	477	0.262	ug/l	89
25) 2-Butanone	7.489	43	13919	13.085	ug/l	89
29) Tetrahydrofuran	7.841	42	9206	14.018	ug/l	95
30) Chloroform	7.959	83	1208	0.310	ug/l	92
31) Cyclohexane	8.218	56	3742	1.245	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13949	4.708	ug/l #	48
37) Ethyl Acetate	7.489	43	13919	5.569	ug/l #	64
38) Carbon Tetrachloride	8.224	117	19139	4.913	ug/l #	17
39) Methylcyclohexane	9.606	83	705	0.240	ug/l #	74
41) Methacrylonitrile	7.847	41	5940	4.977	ug/l #	37
43) Isopropyl Acetate	8.694	43	1455	0.269	ug/l #	50
51) 4-Methyl-2-Pentanone	10.435	43	2388	1.000	ug/l #	86
59) 2-Hexanone	11.177	43	1359	0.781	ug/l #	37
67) Ethyl Benzene	11.959	91	5059	0.469	ug/l	99
68) m/p-Xylenes	12.071	106	1583	0.373	ug/l	81
69) o-Xylene	12.394	106	3591	0.922	ug/l	98
76) 1,2,3-Trichloropropane	12.847	75	72460	23.287	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72460	61.567	ug/l #	16
86) p-Isopropyltoluene	13.718	119	2108	0.279	ug/l #	1
90) Hexachloroethane	14.329	117	445	0.255	ug/l #	10
95) Naphthalene	15.647	128	1778	0.258	ug/l #	75

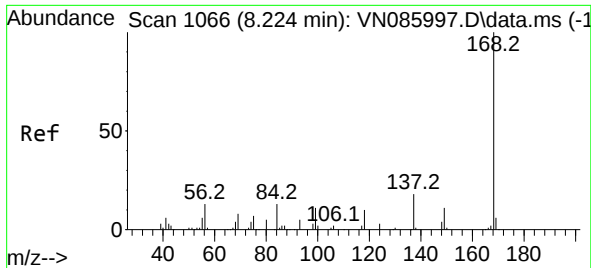
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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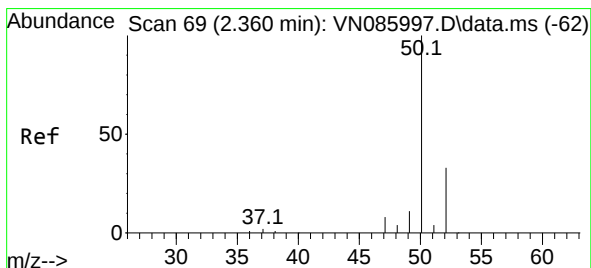
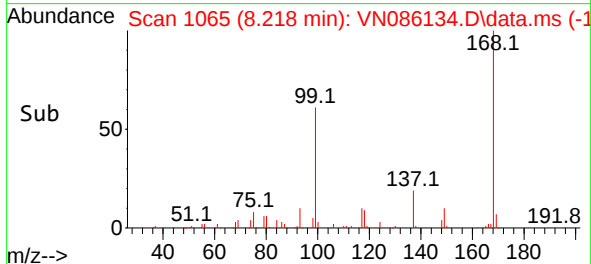
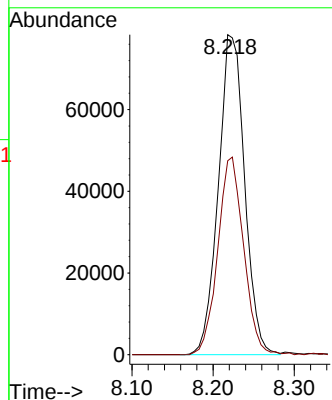
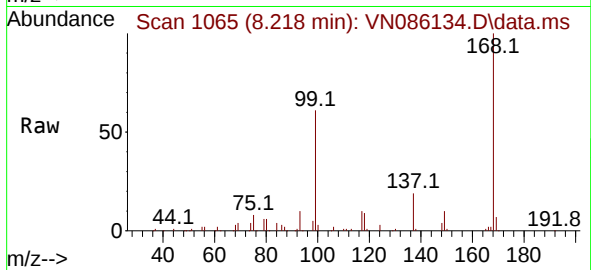




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

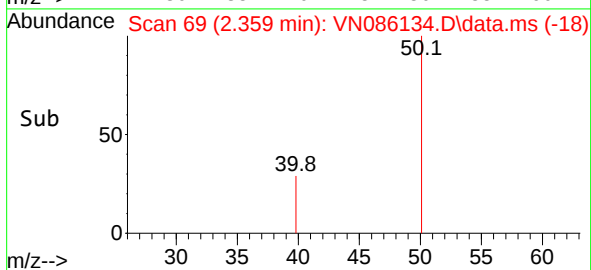
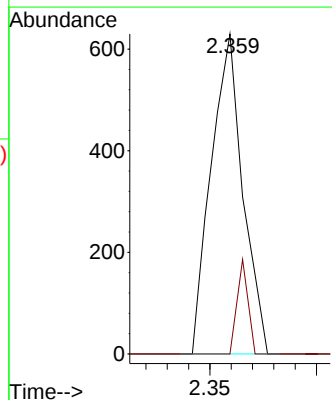
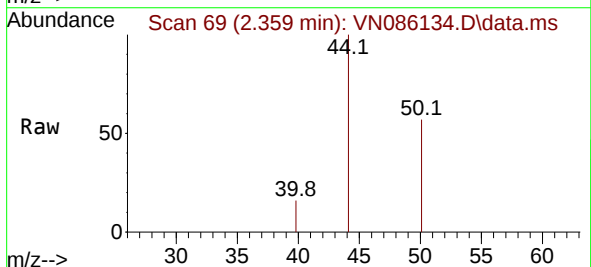
Instrument :
MSVOA_N
ClientSampleId :
031925

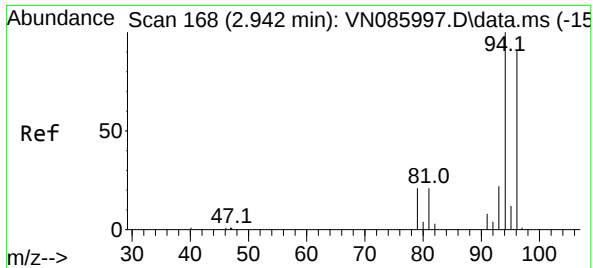
Tgt Ion:168 Resp: 176223
Ion Ratio Lower Upper
168 100
99 60.6 49.4 74.2



#3
Chloromethane
Concen: 0.318 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 50 Resp: 650
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

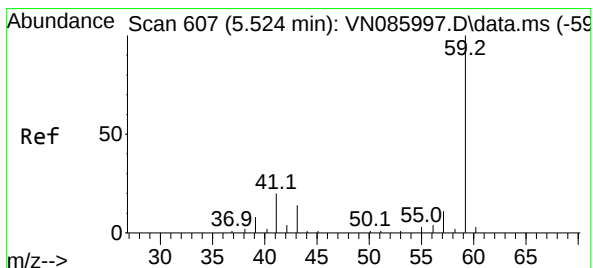
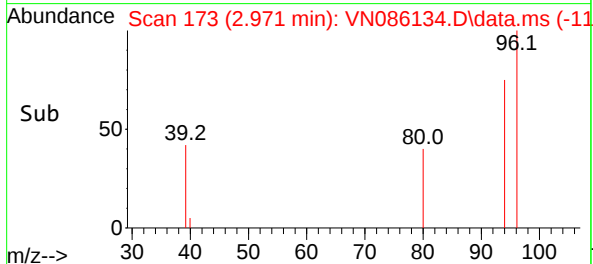
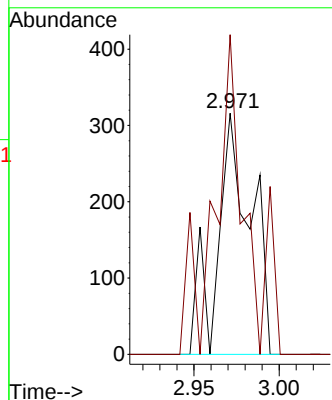
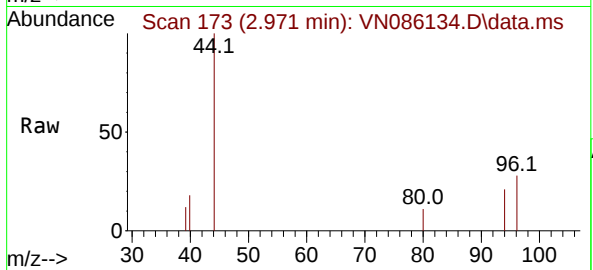




#5
Bromomethane
Concen: 0.305 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

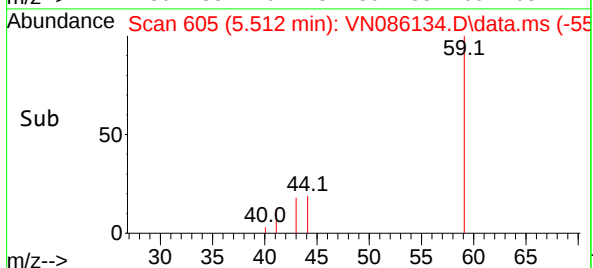
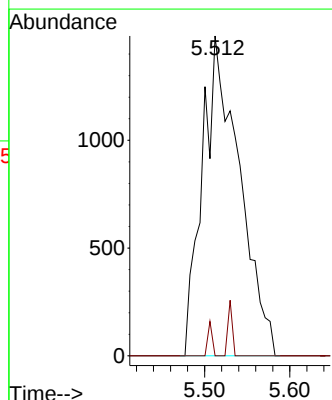
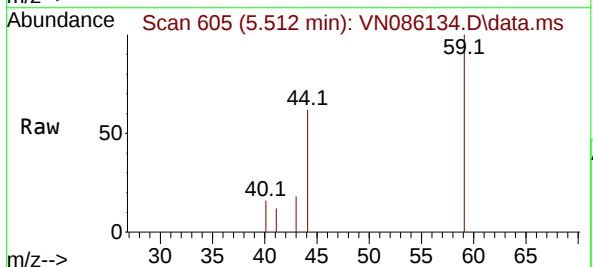
Instrument :
MSVOA_N
ClientSampleId :
031925

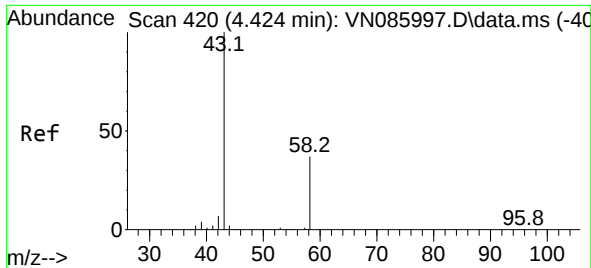
Tgt Ion: 94 Resp: 435
Ion Ratio Lower Upper
94 100
96 132.6 72.8 109.2#



#11
Tert butyl alcohol
Concen: 13.133 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 59 Resp: 4487
Ion Ratio Lower Upper
59 100
57 1.2 7.9 11.9#





#16

Acetone

Concen: 83.383 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

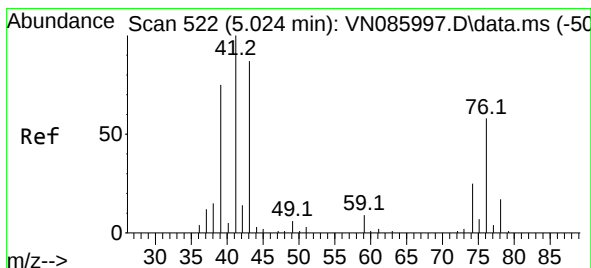
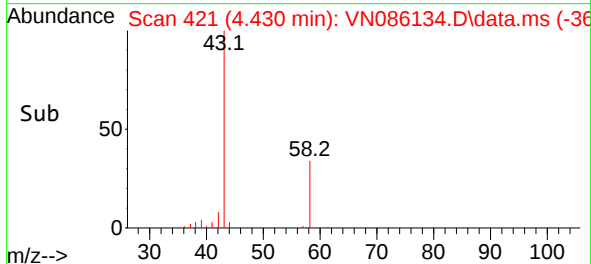
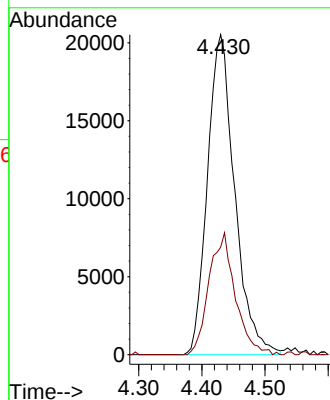
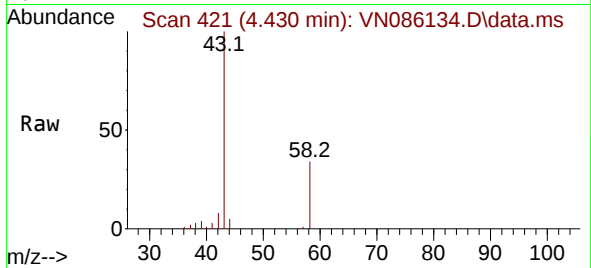
031925

Tgt Ion: 43 Resp: 61472

Ion Ratio Lower Upper

43 100

58 33.6 29.4 44.2



#18

Methyl Acetate

Concen: 0.262 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086134.D

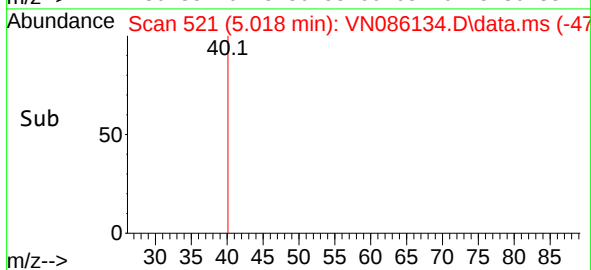
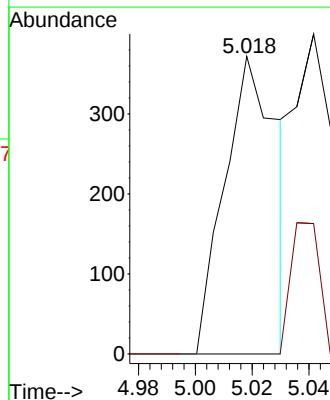
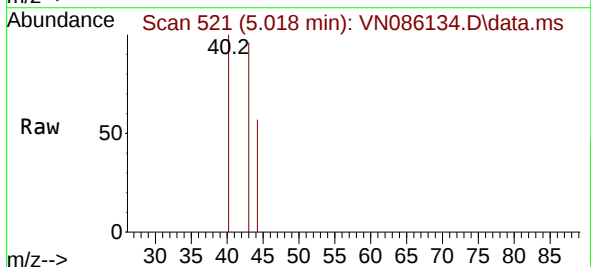
Acq: 26 Mar 2025 18:24

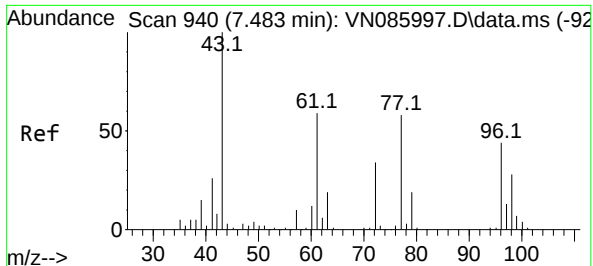
Tgt Ion: 43 Resp: 477

Ion Ratio Lower Upper

43 100

74 24.1 23.9 35.9

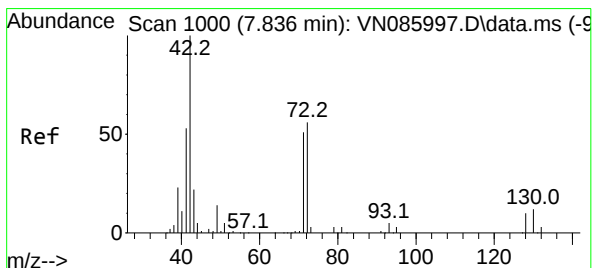
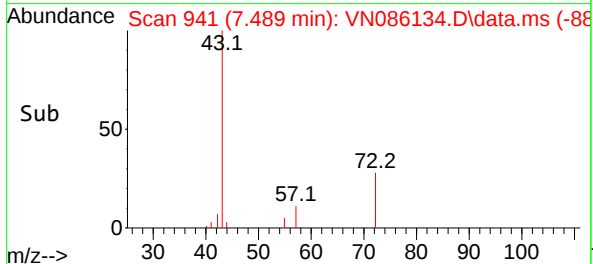
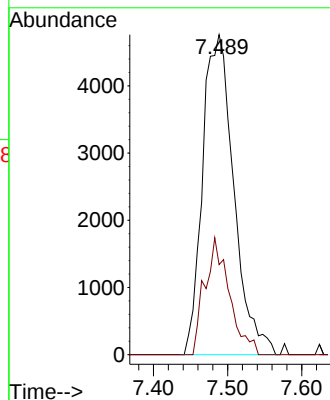
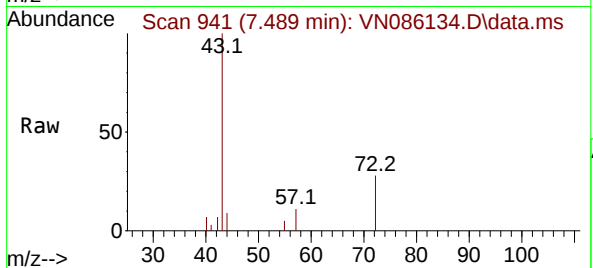




#25
2-Butanone
Concen: 13.085 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

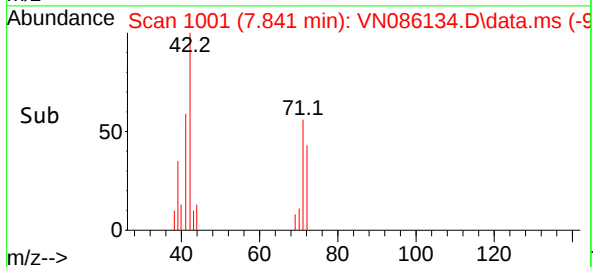
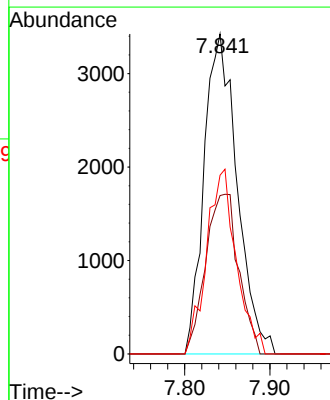
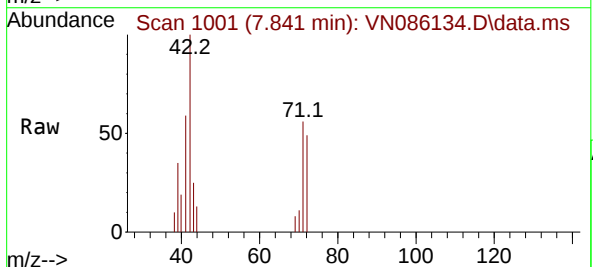
Instrument :
MSVOA_N
ClientSampleId :
031925

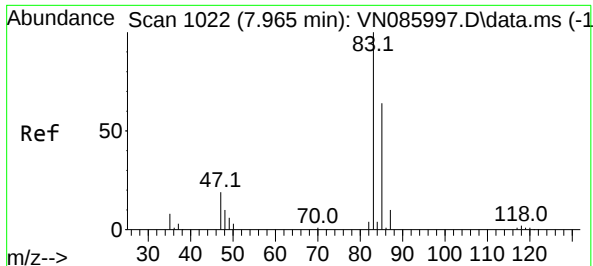
Tgt Ion: 43 Resp: 13919
Ion Ratio Lower Upper
43 100
72 28.2 27.4 41.0



#29
Tetrahydrofuran
Concen: 14.018 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 42 Resp: 9206
Ion Ratio Lower Upper
42 100
72 49.9 45.0 67.4
71 51.8 41.9 62.9





#30

Chloroform

Concen: 0.310 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

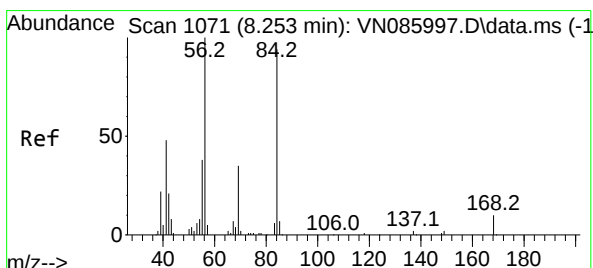
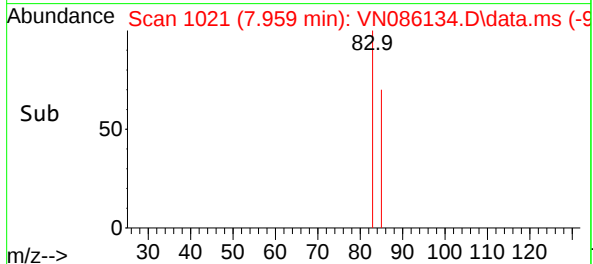
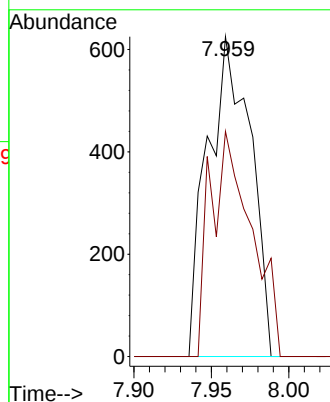
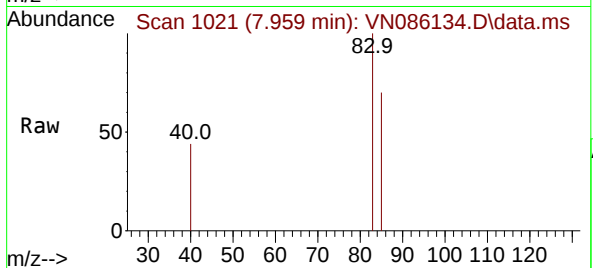
031925

Tgt Ion: 83 Resp: 1208

Ion Ratio Lower Upper

83 100

85 70.4 51.5 77.3



#31

Cyclohexane

Concen: 1.245 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

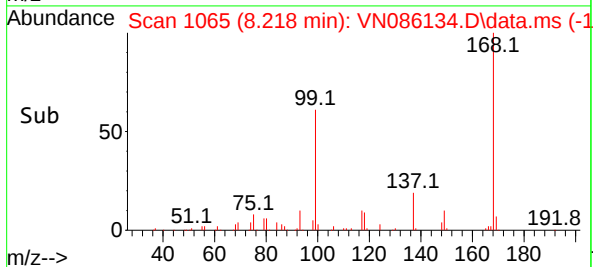
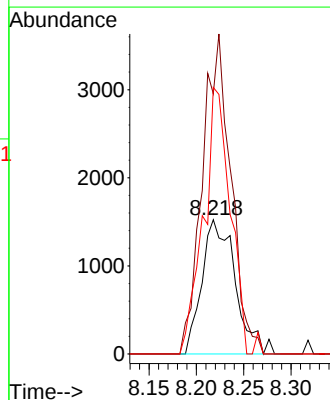
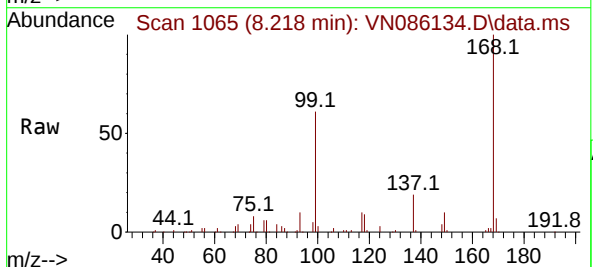
Tgt Ion: 56 Resp: 3742

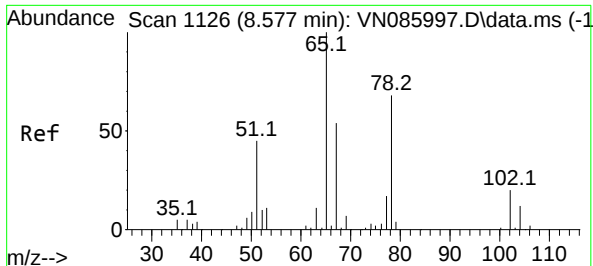
Ion Ratio Lower Upper

56 100

69 193.7 28.0 42.0#

84 198.4 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 53.560 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

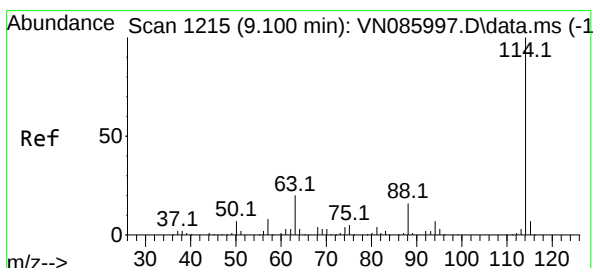
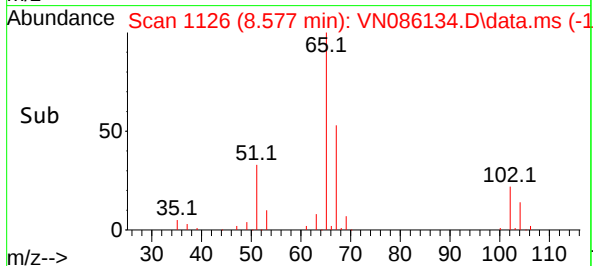
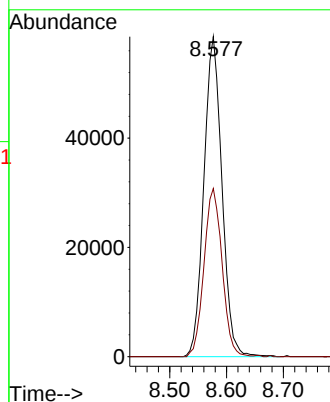
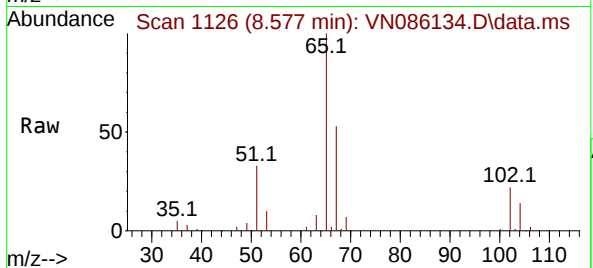
031925

Tgt Ion: 65 Resp: 129246

Ion Ratio Lower Upper

65 100

67 52.6 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

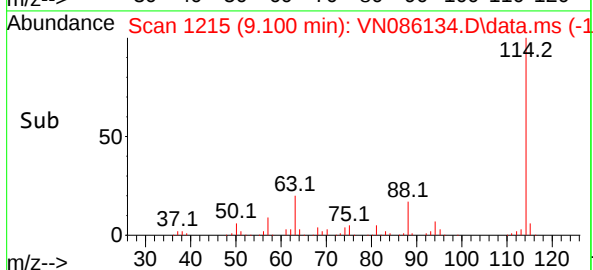
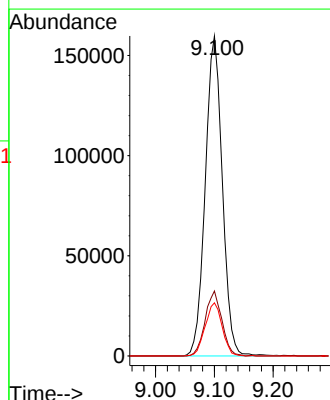
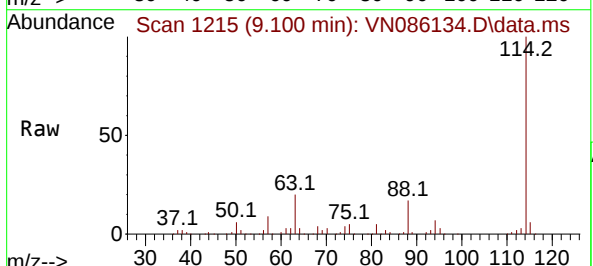
Tgt Ion: 114 Resp: 322337

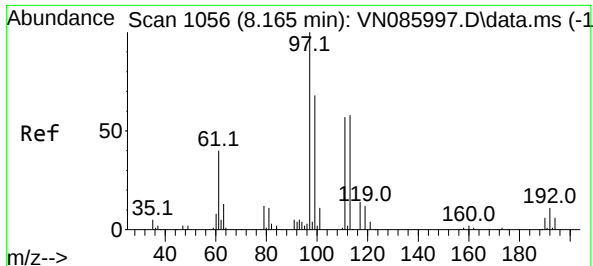
Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

88 16.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.564 ug/l

RT: 8.159 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

031925

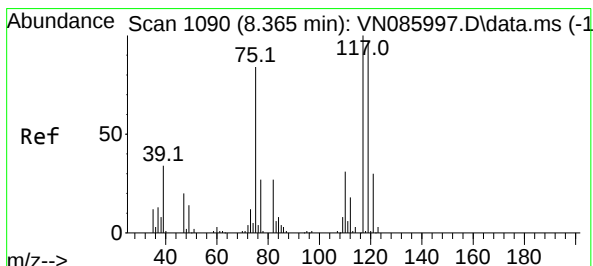
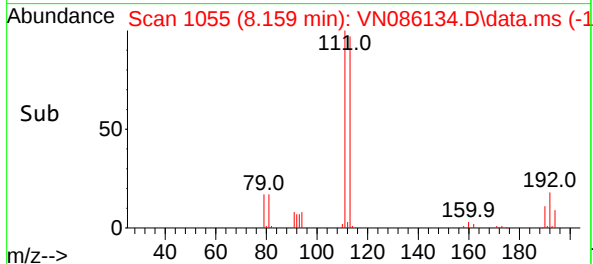
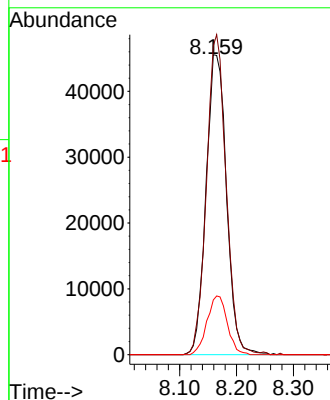
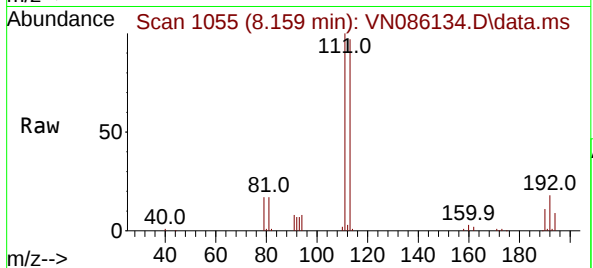
Tgt Ion:113 Resp: 113762

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.8

192 19.4 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.708 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

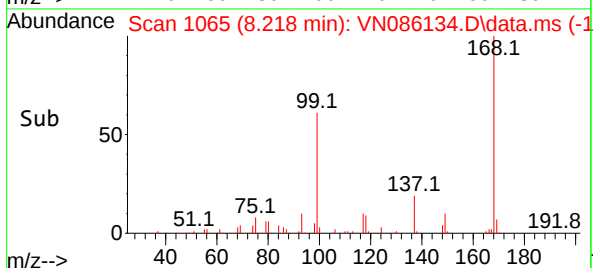
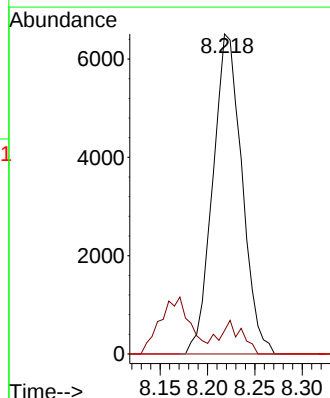
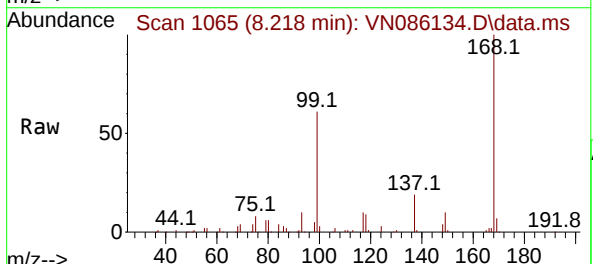
Tgt Ion: 75 Resp: 13949

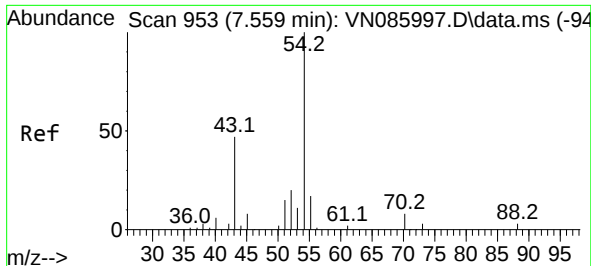
Ion Ratio Lower Upper

75 100

110 8.0 17.8 53.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 5.569 ug/l

RT: 7.489 min Scan# 941

Delta R.T. -0.071 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

031925

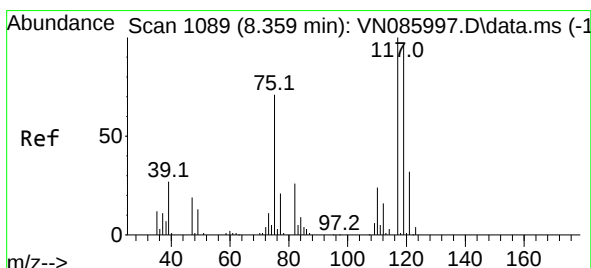
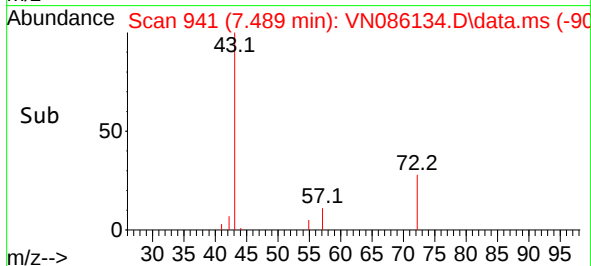
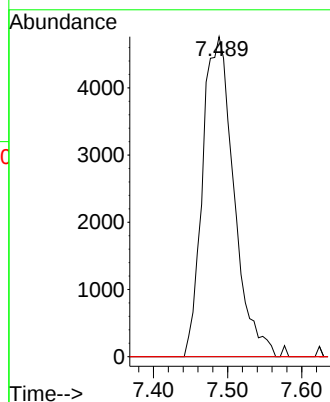
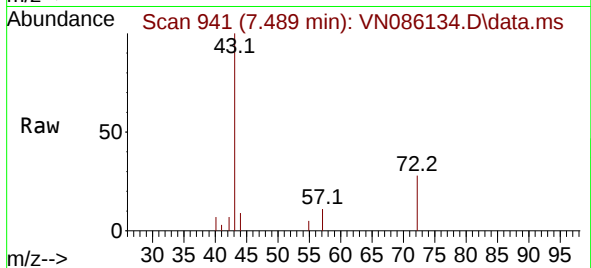
Tgt Ion: 43 Resp: 13919

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 11.0 16.6#



#38

Carbon Tetrachloride

Concen: 4.913 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

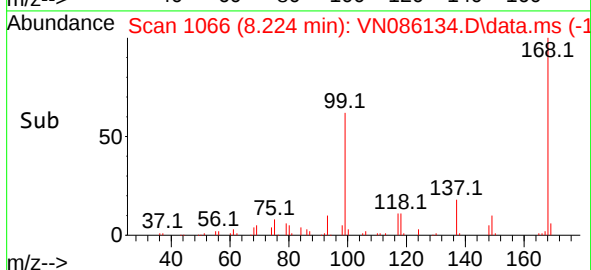
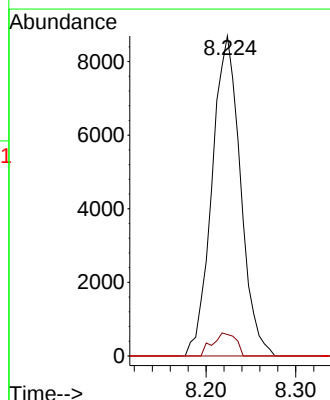
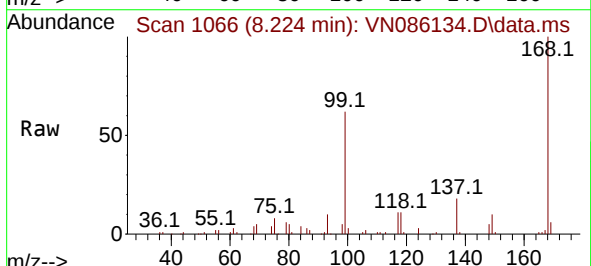
Tgt Ion: 117 Resp: 19139

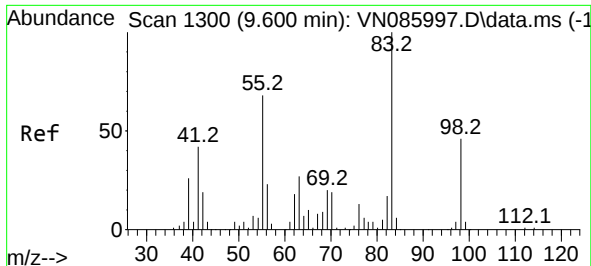
Ion Ratio Lower Upper

117 100

119 6.7 77.0 115.4#

121 0.0 25.6 38.4#

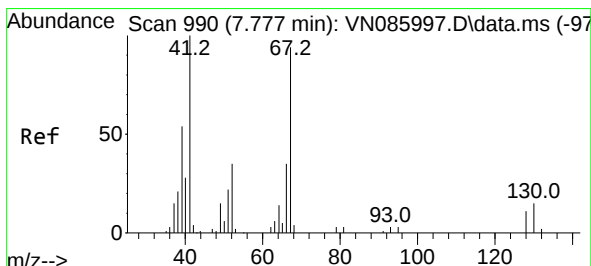
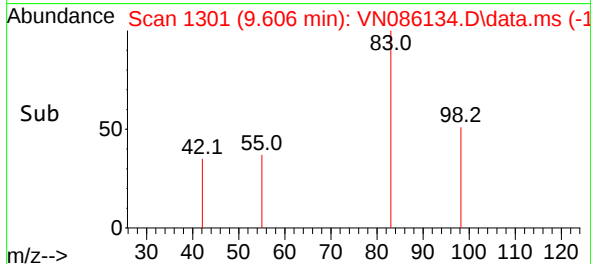
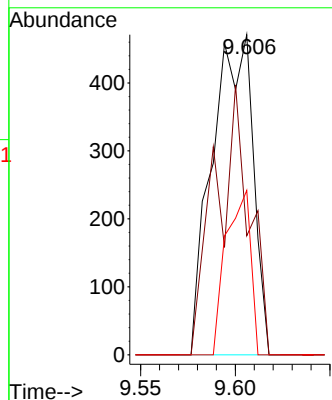
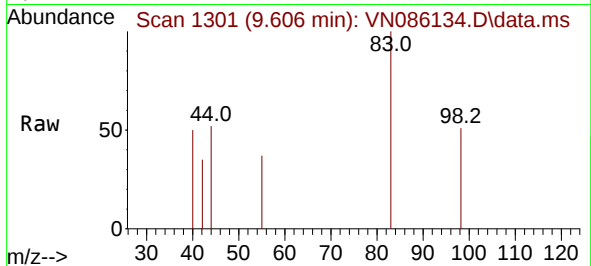




#39
Methylcyclohexane
Concen: 0.240 ug/l
RT: 9.606 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

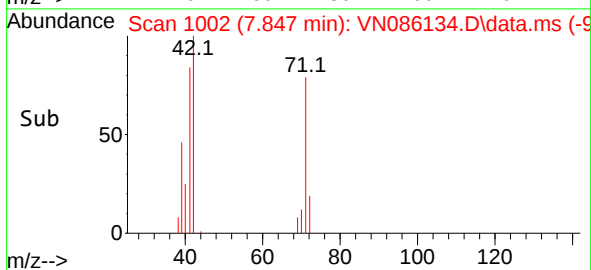
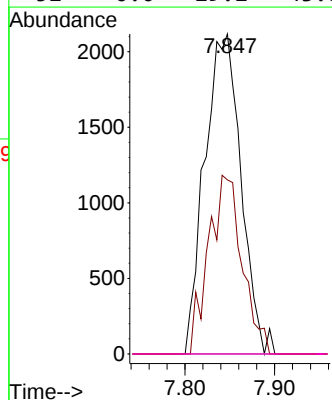
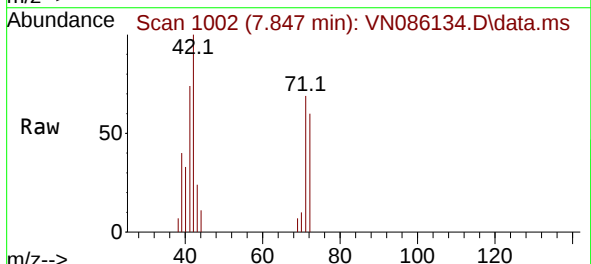
Instrument :
MSVOA_N
ClientSampleId :
031925

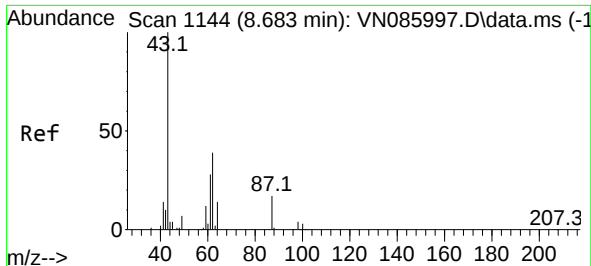
Tgt Ion: 83 Resp: 705
Ion Ratio Lower Upper
83 100
55 37.2 54.2 81.2#
98 51.4 37.1 55.7



#41
Methacrylonitrile
Concen: 4.977 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.071 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 41 Resp: 5940
Ion Ratio Lower Upper
41 100
39 51.7 46.2 69.2
67 0.0 75.9 113.9#
52 0.0 29.2 43.8#

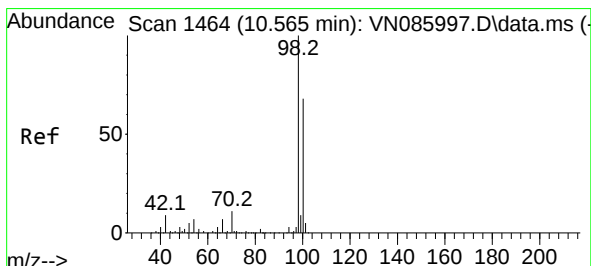
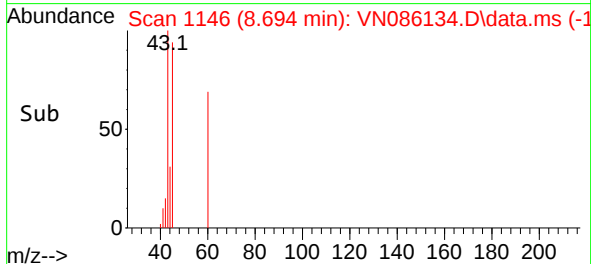
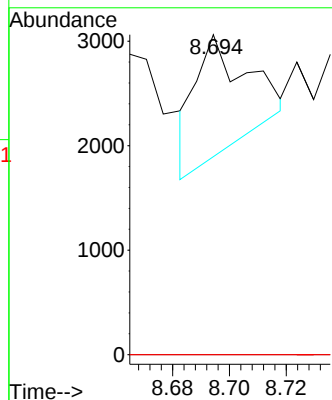
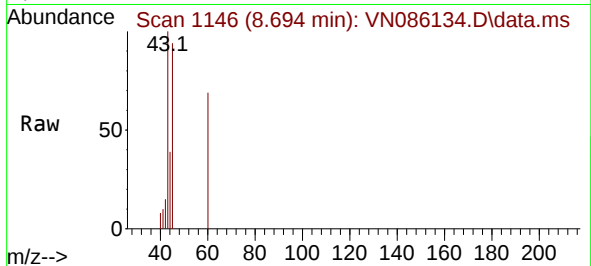




#43
Isopropyl Acetate
Concen: 0.269 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.012 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

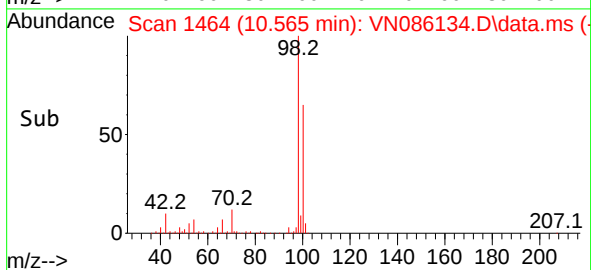
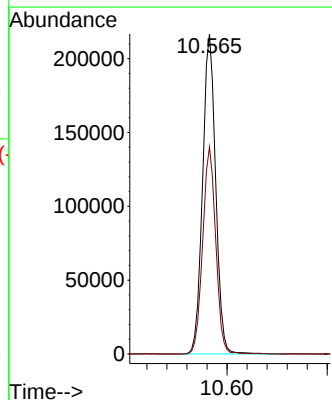
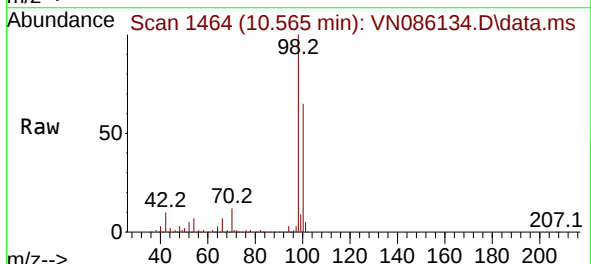
Instrument :
MSVOA_N
ClientSampleId :
031925

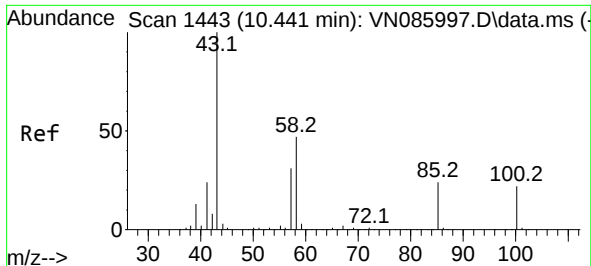
Tgt Ion: 43 Resp: 1455
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#



#50
Toluene-d8
Concen: 47.993 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 98 Resp: 391886
Ion Ratio Lower Upper
98 100
100 64.6 53.1 79.7

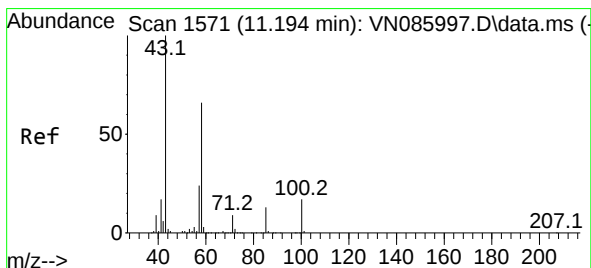
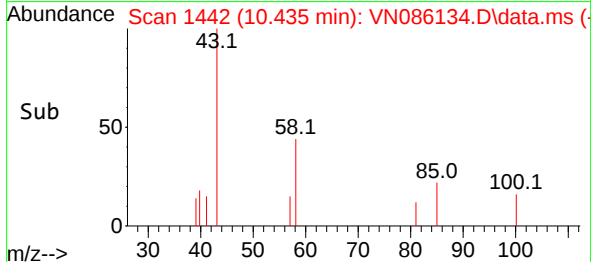
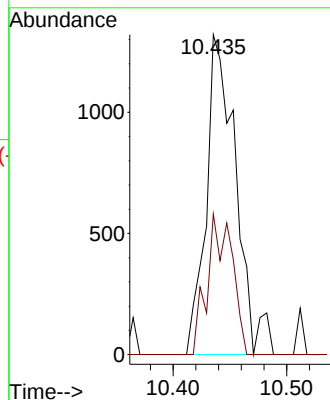
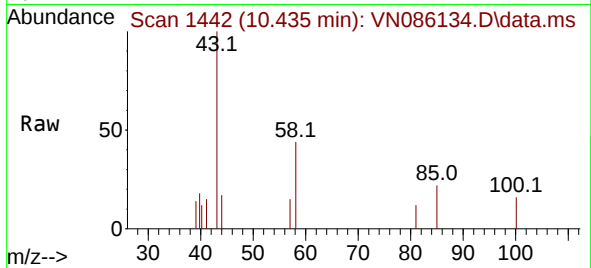




#51
4-Methyl-2-Pentanone
Concen: 1.000 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

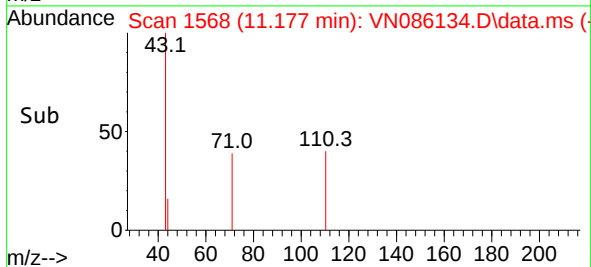
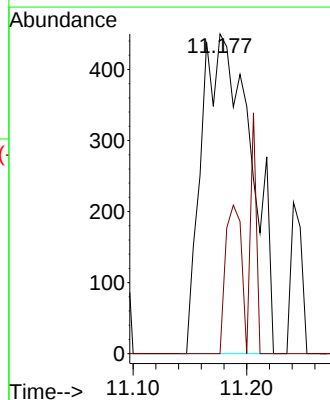
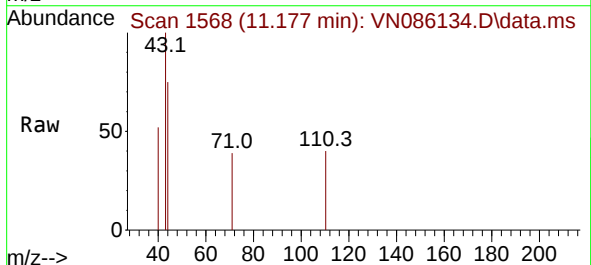
Instrument :
MSVOA_N
ClientSampleId :
031925

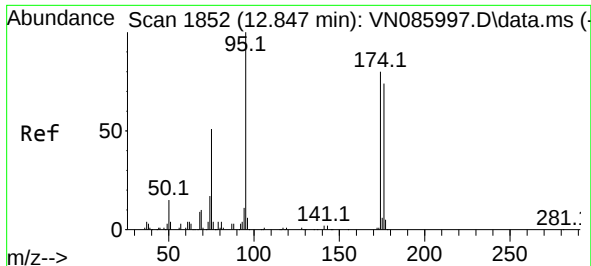
Tgt Ion: 43 Resp: 2388
Ion Ratio Lower Upper
43 100
58 37.1 37.4 56.0#



#59
2-Hexanone
Concen: 0.781 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.018 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 43 Resp: 1359
Ion Ratio Lower Upper
43 100
58 14.9 32.4 97.2#

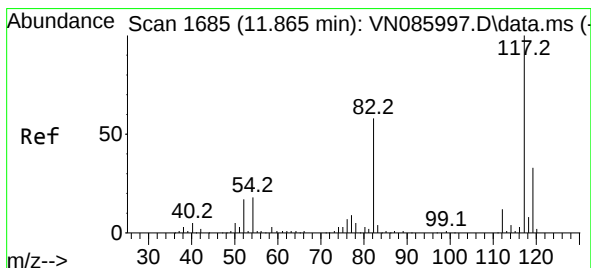
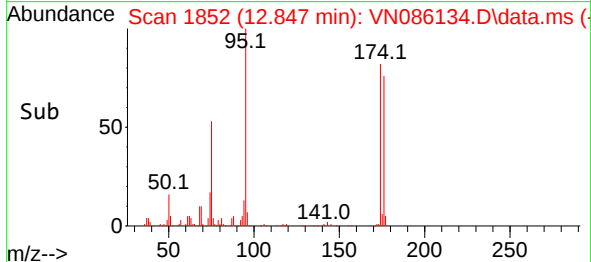
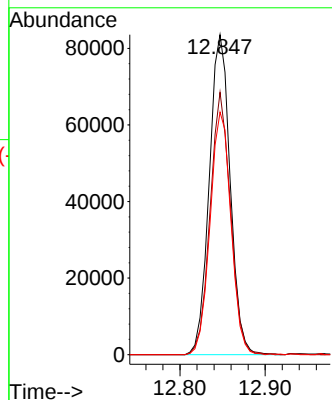
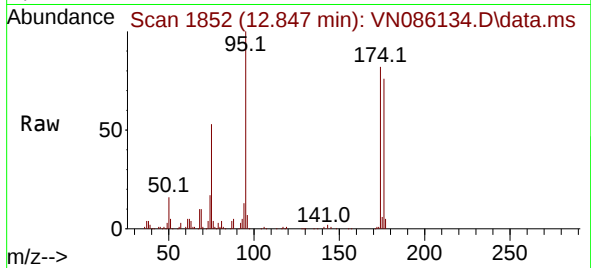




#62
4-Bromofluorobenzene
Concen: 48.845 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

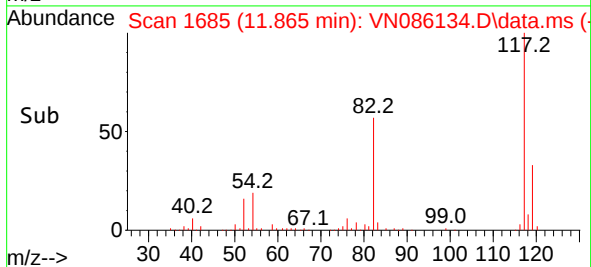
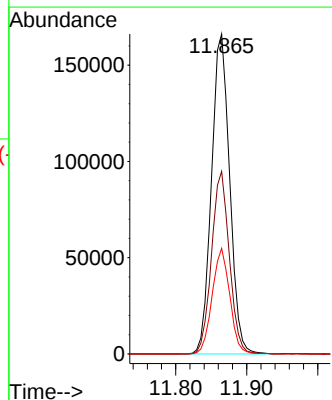
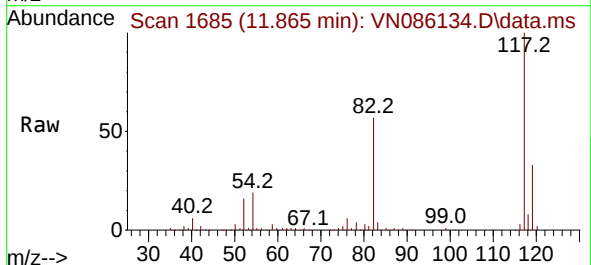
Instrument :
MSVOA_N
ClientSampleId :
031925

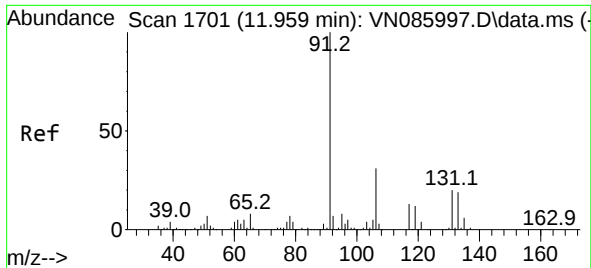
Tgt Ion: 95 Resp: 142239
Ion Ratio Lower Upper
95 100
174 80.3 0.0 156.8
176 75.7 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 117 Resp: 294829
Ion Ratio Lower Upper
117 100
82 57.1 46.7 70.1
119 33.0 26.5 39.7

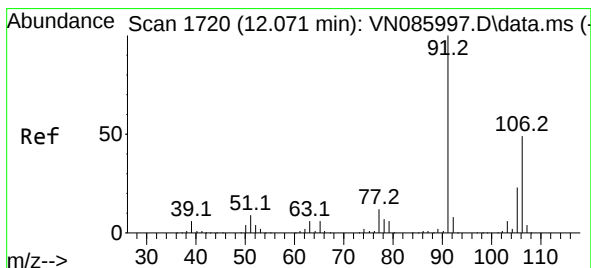
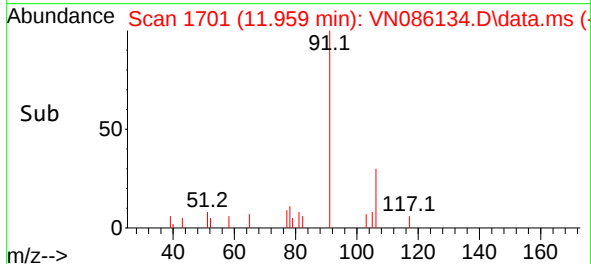
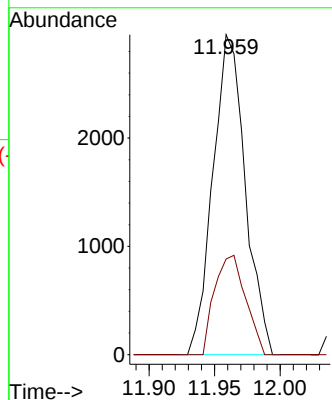
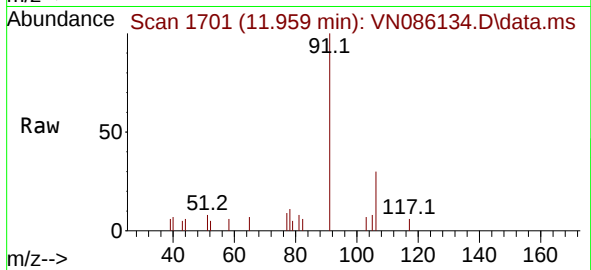




#67
Ethyl Benzene
Concen: 0.469 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

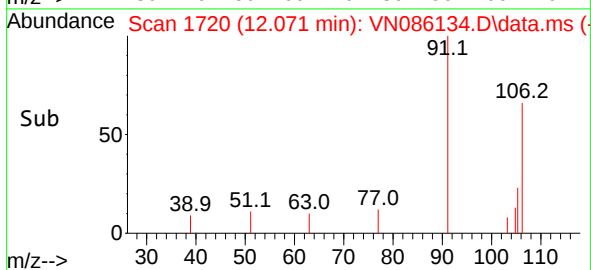
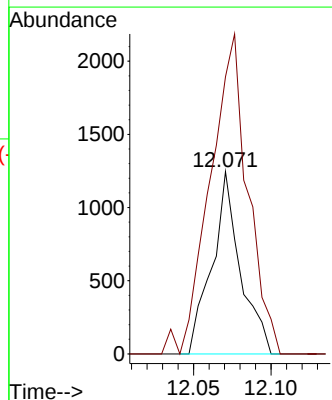
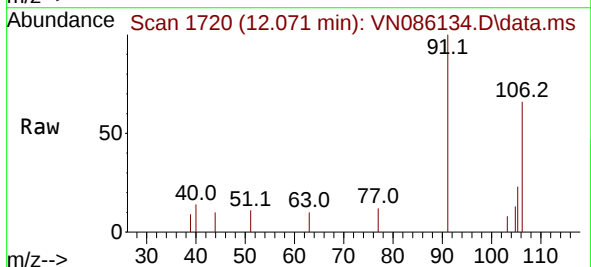
Instrument :
MSVOA_N
ClientSampleId :
031925

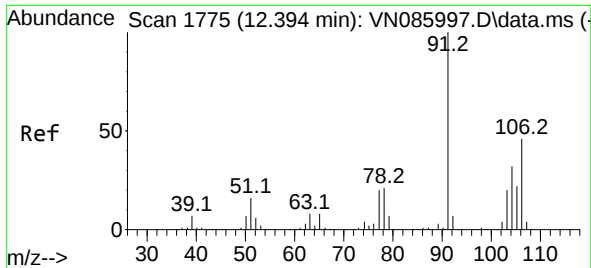
Tgt Ion: 91 Resp: 5059
Ion Ratio Lower Upper
91 100
106 29.9 24.5 36.7



#68
m/p-Xylenes
Concen: 0.373 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion: 106 Resp: 1583
Ion Ratio Lower Upper
106 100
91 233.8 163.9 245.9

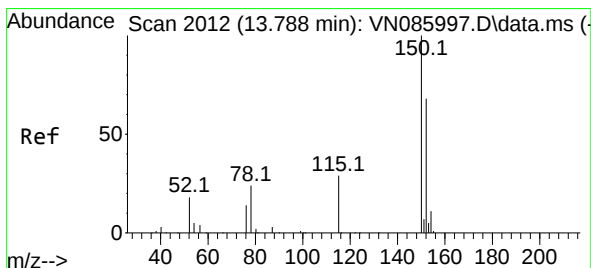
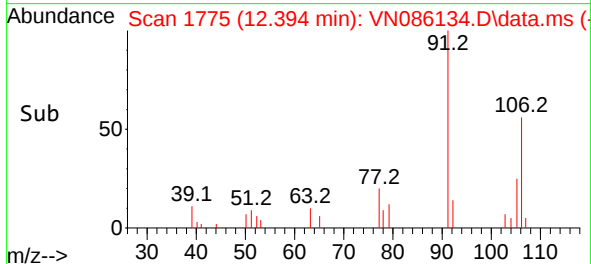
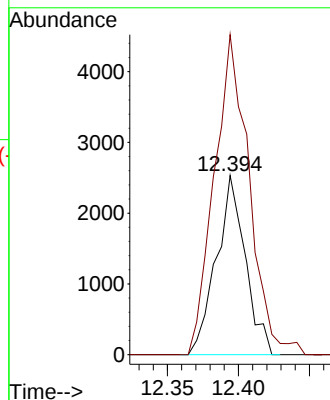
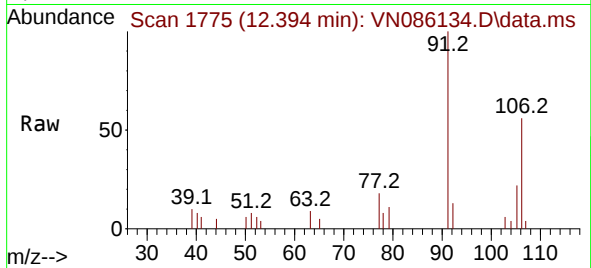




#69
o-Xylene
Concen: 0.922 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

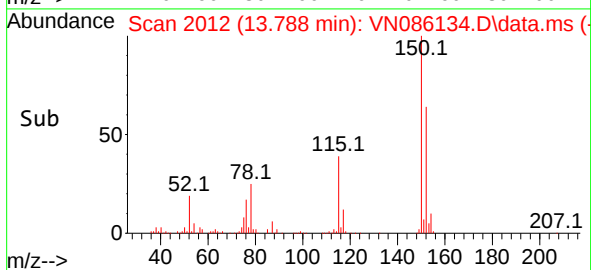
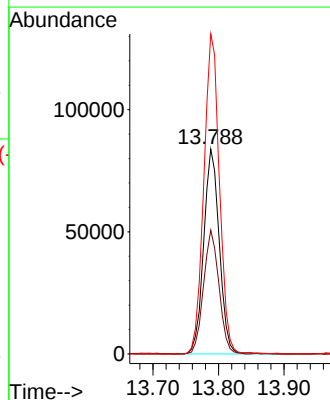
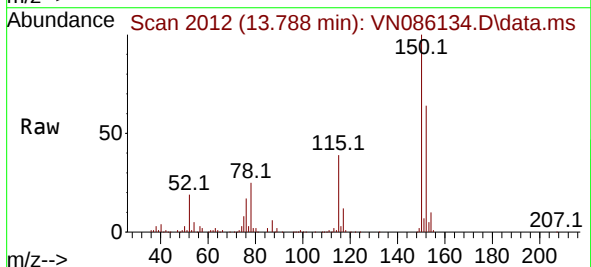
Instrument :
MSVOA_N
ClientSampleId :
031925

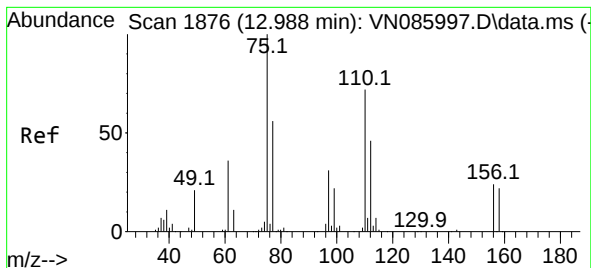
Tgt Ion:106 Resp: 3591
Ion Ratio Lower Upper
106 100
91 214.9 109.1 327.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion:152 Resp: 138985
Ion Ratio Lower Upper
152 100
115 59.8 31.1 93.2
150 156.5 0.0 359.6





#76

1,2,3-Trichloropropane

Concen: 23.287 ug/l

RT: 12.847 min Scan# 11

Delta R.T. -0.141 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

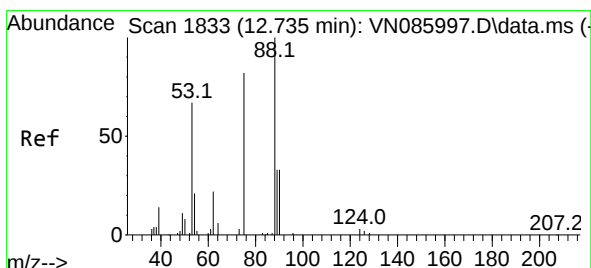
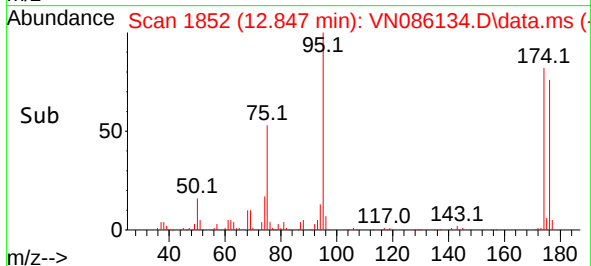
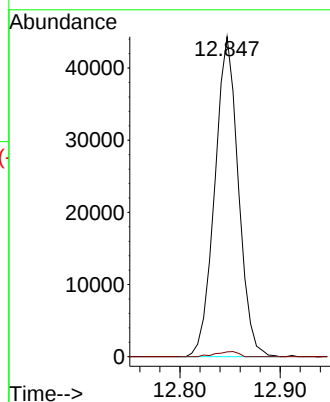
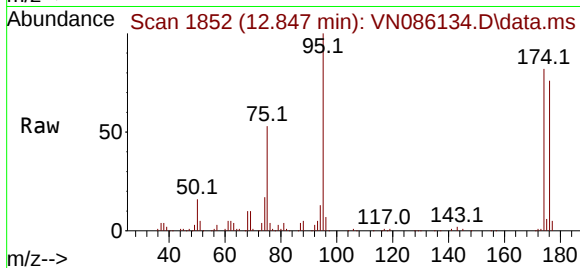
031925

Tgt Ion: 75 Resp: 72460

Ion Ratio Lower Upper

75 100

77 1.5 83.7 251.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.567 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086134.D

Acq: 26 Mar 2025 18:24

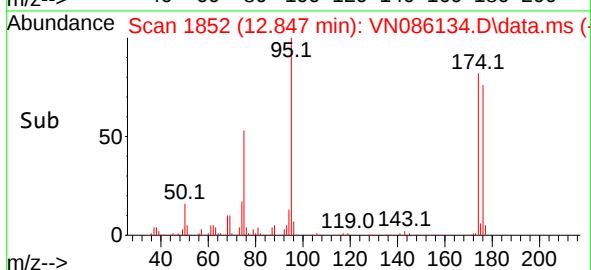
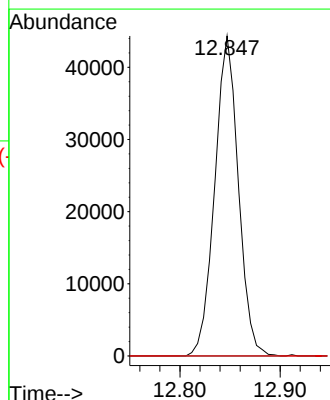
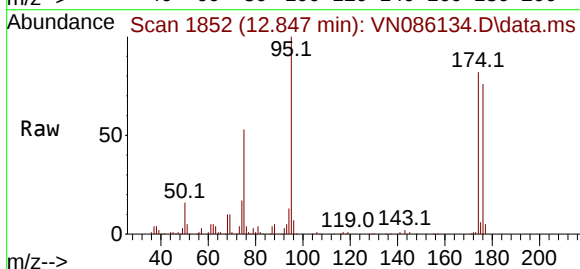
Tgt Ion: 75 Resp: 72460

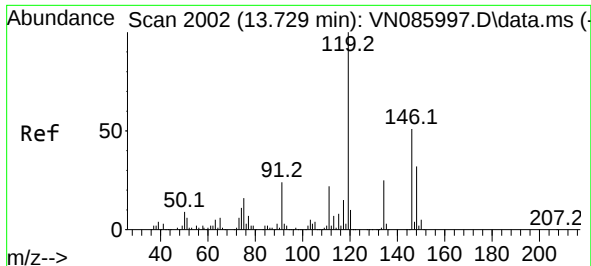
Ion Ratio Lower Upper

75 100

53 0.0 66.0 99.0#

89 0.0 36.9 55.3#

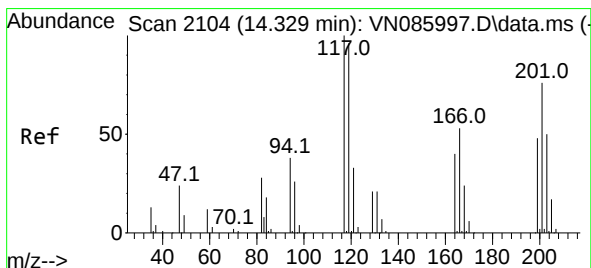
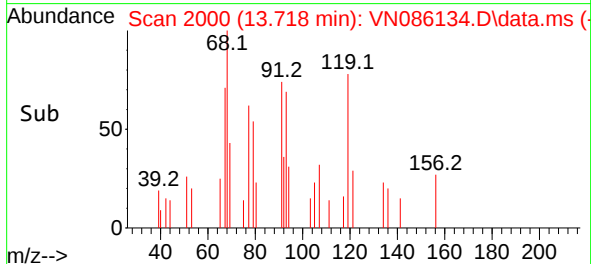
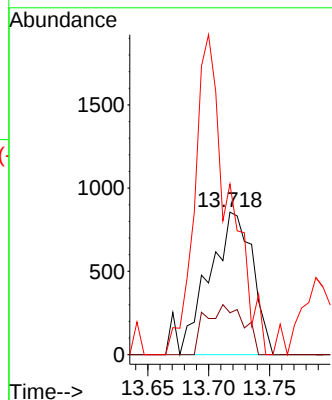
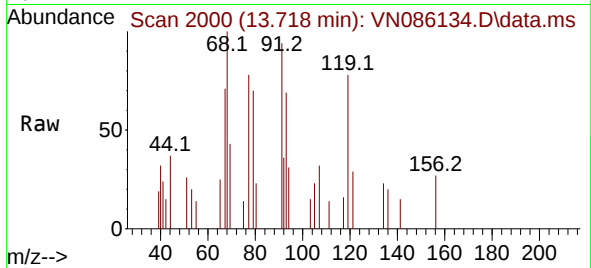




#86
p-Isopropyltoluene
Concen: 0.279 ug/l
RT: 13.718 min Scan# 2000
Delta R.T. -0.012 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

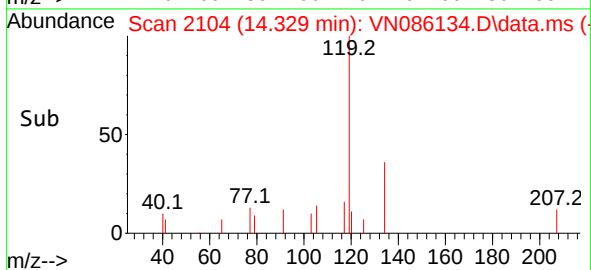
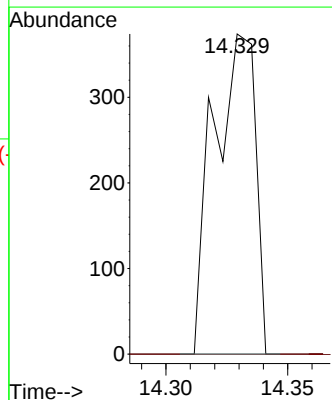
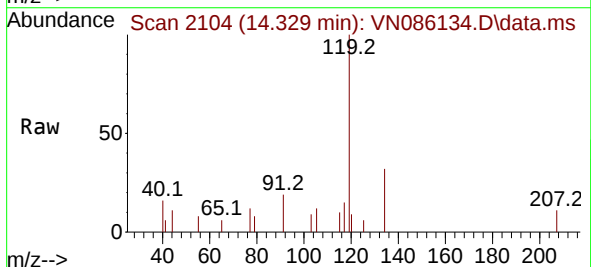
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MSVOA_N
ClientSampleId :
031925

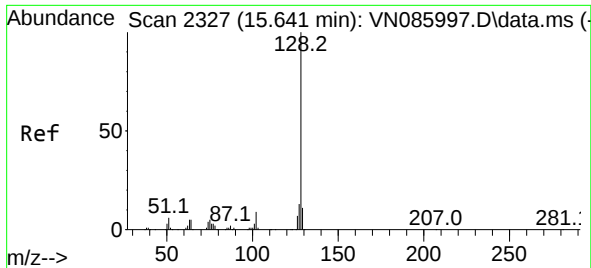
Tgt Ion:119 Resp: 2108
Ion Ratio Lower Upper
119 100
134 31.3 12.6 37.8
91 179.3 12.3 36.8#



#90
Hexachloroethane
Concen: 0.255 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086134.D
Acq: 26 Mar 2025 18:24

Tgt Ion:117 Resp: 445
Ion Ratio Lower Upper
117 100
201 0.0 39.1 117.3#





#95

Naphthalene

Concen: 0.258 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086134.D

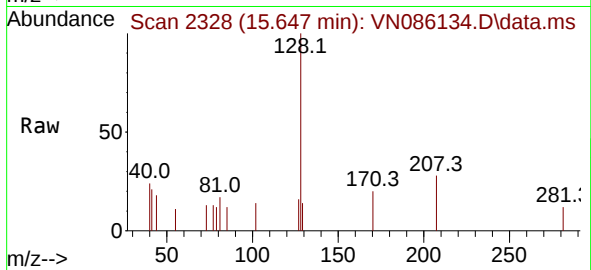
Acq: 26 Mar 2025 18:24

Instrument :

MSVOA_N

ClientSampleId :

031925



Tgt Ion:128 Resp: 1778

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 17.5 9.0 13.6#

