

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091525\
 Data File : VN087831.D
 Acq On : 15 Sep 2025 12:56
 Operator : JC\MD
 Sample : Q3082-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-32

Quant Time: Sep 16 01:35:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

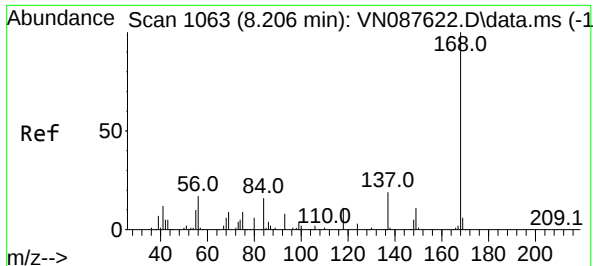
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	167945	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	378625	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	385729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	171884	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	179438	52.147	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.300%			
35) Dibromofluoromethane	8.153	113	142598	52.164	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.320%			
50) Toluene-d8	10.547	98	508535	49.702	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.400%			
62) 4-Bromofluorobenzene	12.829	95	175598	48.259	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.520%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.959	74	366	0.202	ug/l	60
10) Methyl Iodide	4.795	142	73	6.846	ug/l #	38
11) Tert butyl alcohol	5.542	59	952	1.594	ug/l #	71
16) Acetone	4.424	43	107284	57.274	ug/l	93
17) Carbon Disulfide	4.695	76	10129	1.520	ug/l	99
18) Methyl Acetate	5.030	43	20442	5.212	ug/l #	80
20) Methylene Chloride	5.259	84	11419	3.049	ug/l #	80
25) 2-Butanone	7.483	43	11989	4.865	ug/l	96
29) Tetrahydrofuran	7.836	42	921	0.581	ug/l #	84
31) Cyclohexane	8.206	56	5268	1.217	ug/l #	51
36) 1,1-Dichloropropene	8.212	75	15817	3.772	ug/l #	50
37) Ethyl Acetate	7.553	43	9625	1.680	ug/l #	89
38) Carbon Tetrachloride	8.206	117	18896	4.564	ug/l #	16
43) Isopropyl Acetate	8.677	43	20221	2.260	ug/l #	93
45) 1,2-Dichloropropane	9.735	63	1056	0.311	ug/l #	43
48) Methyl methacrylate	9.724	41	91563	21.636	ug/l #	47
49) 1,4-Dioxane	9.718	88	93	1.695	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	12475	2.311	ug/l	97
54) cis-1,3-Dichloropropene	10.341	75	50985	9.593	ug/l #	66
57) 1,3-Dichloropropane	11.182	76	2717	0.498	ug/l #	42
59) 2-Hexanone	11.182	43	32159	9.426	ug/l #	60
74) N-amyl acetate	12.512	43	1654	0.314	ug/l #	54
76) 1,2,3-Trichloropropane	12.829	75	97934	24.297	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	97934	64.322	ug/l #	1

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

Quant Time: Sep 16 01:35:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration

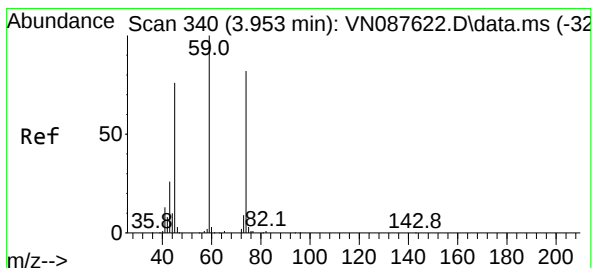
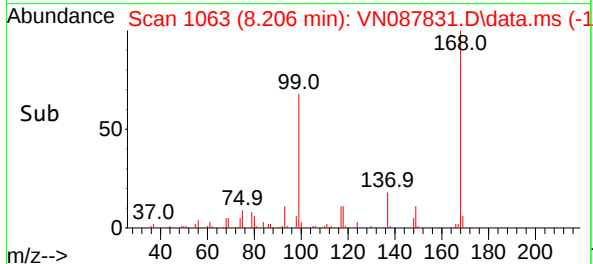
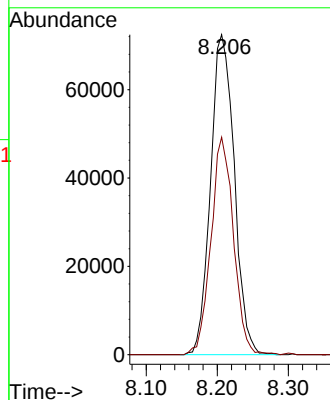
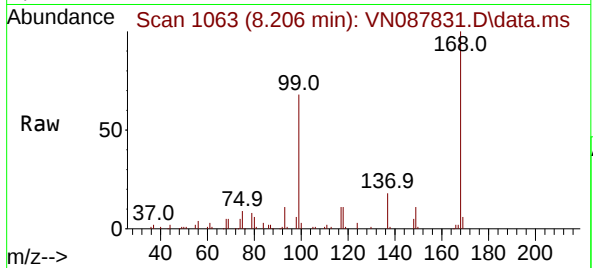




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

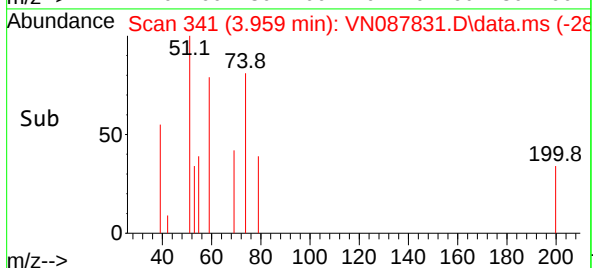
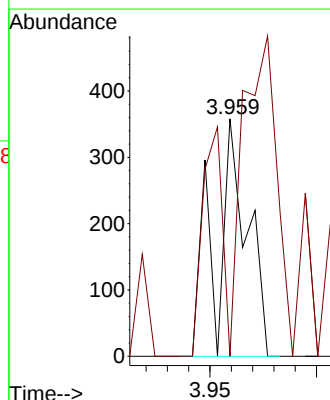
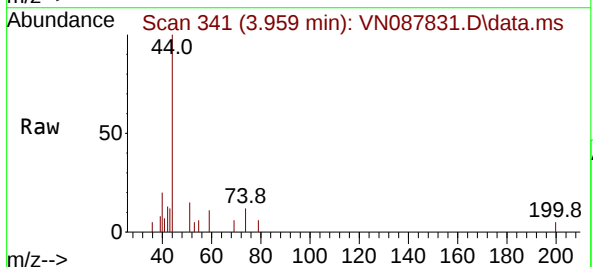
Instrument :
MSVOA_N
ClientSampleId :
WC-32

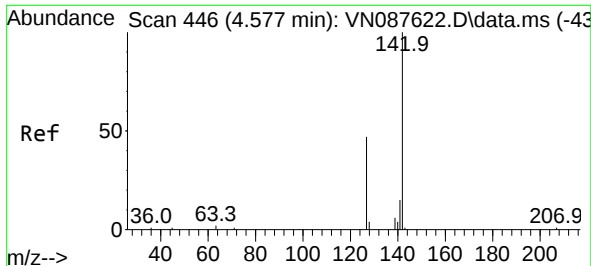
Tgt Ion:168 Resp: 167945
Ion Ratio Lower Upper
168 100
99 68.0 57.2 85.8



#8
Diethyl Ether
Concen: 0.202 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 74 Resp: 366
Ion Ratio Lower Upper
74 100
45 60.7 50.6 151.9

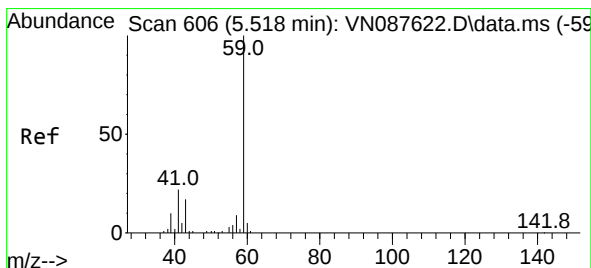
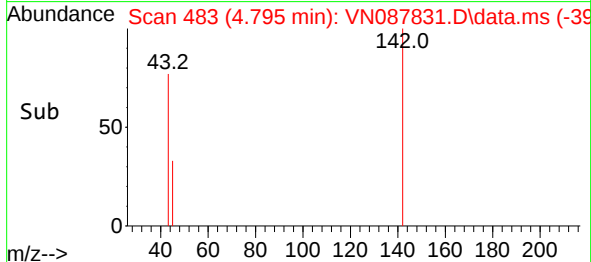
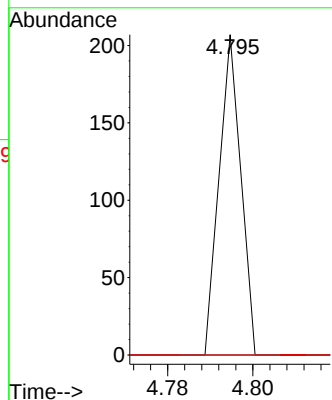
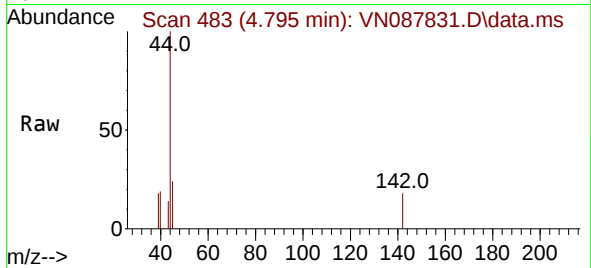




#10
Methyl Iodide
Concen: 6.846 ug/l
RT: 4.795 min Scan# 446
Delta R.T. 0.218 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

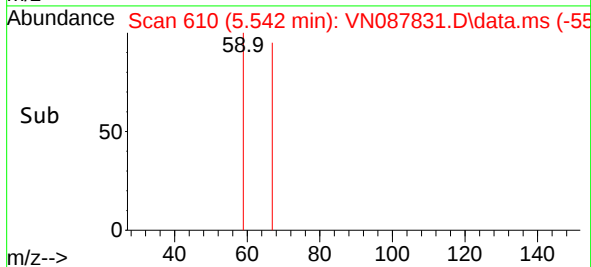
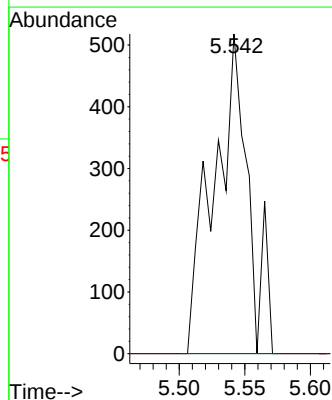
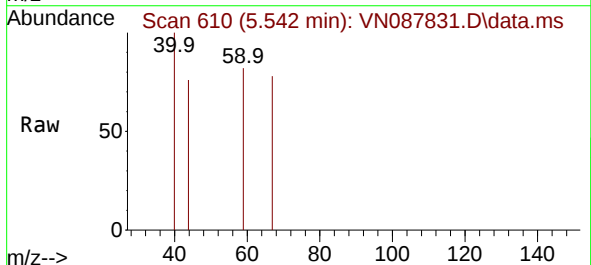
Instrument :
MSVOA_N
ClientSampleId :
WC-32

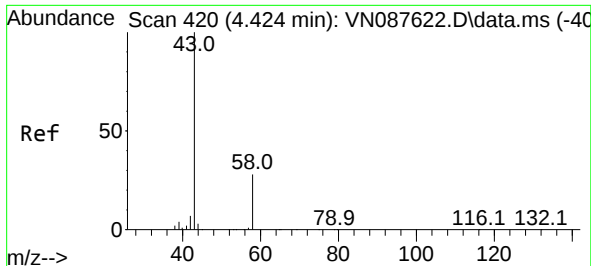
Tgt Ion:142 Resp: 73
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 1.594 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.024 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 59 Resp: 952
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#





#16

Acetone

Concen: 57.274 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN087831.D

Acq: 15 Sep 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

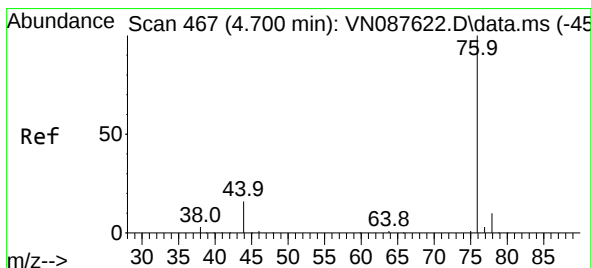
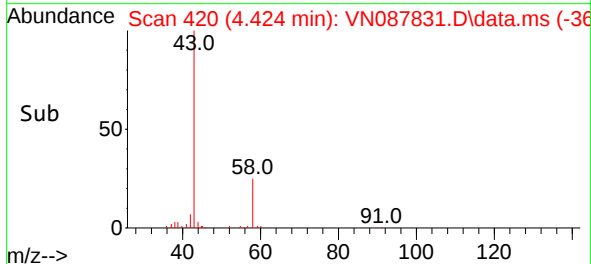
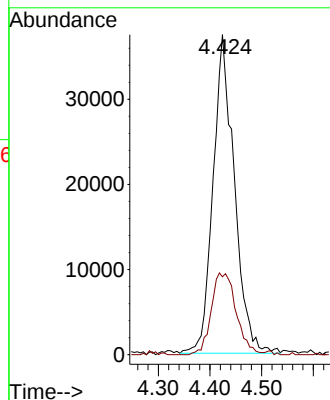
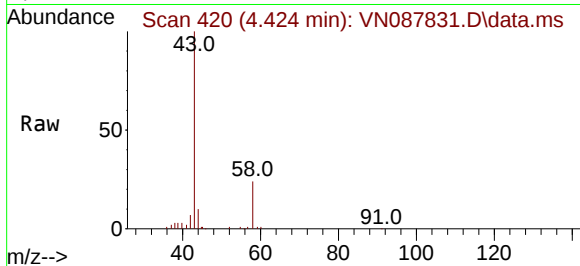
WC-32

Tgt Ion: 43 Resp: 107284

Ion Ratio Lower Upper

43 100

58 24.4 22.6 33.8



#17

Carbon Disulfide

Concen: 1.520 ug/l

RT: 4.695 min Scan# 466

Delta R.T. -0.006 min

Lab File: VN087831.D

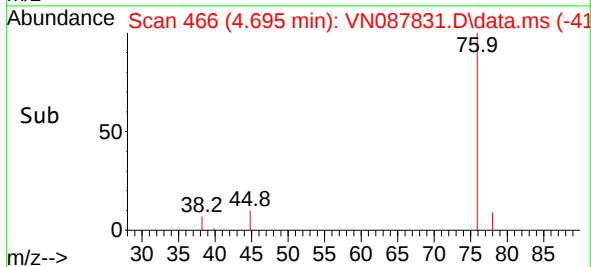
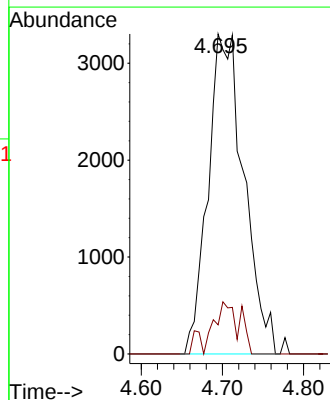
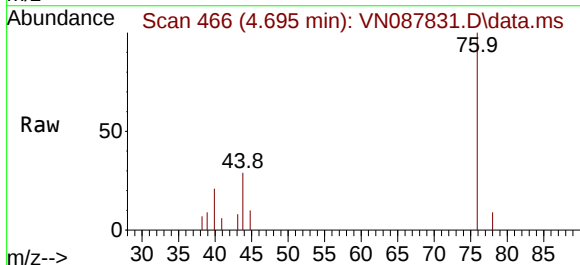
Acq: 15 Sep 2025 12:56

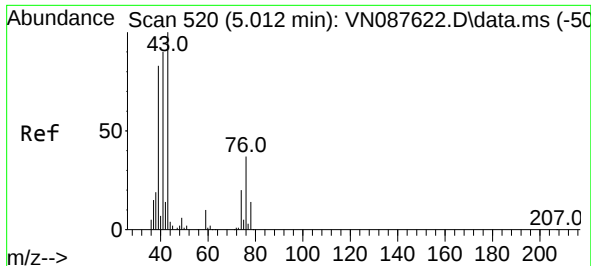
Tgt Ion: 76 Resp: 10129

Ion Ratio Lower Upper

76 100

78 9.1 7.6 11.4

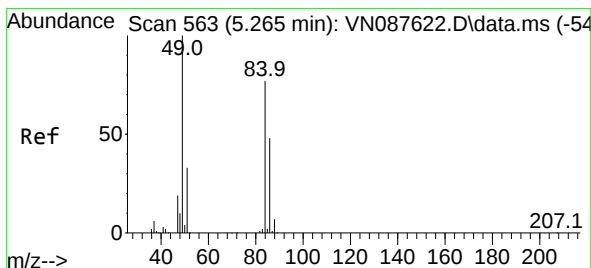
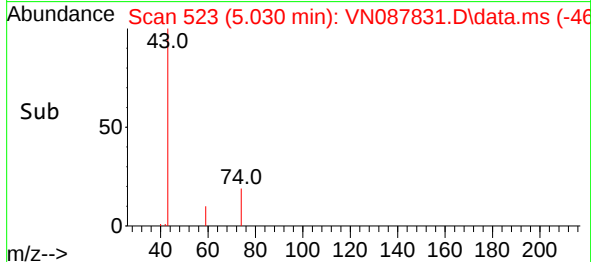
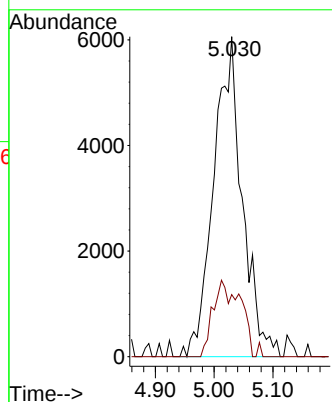
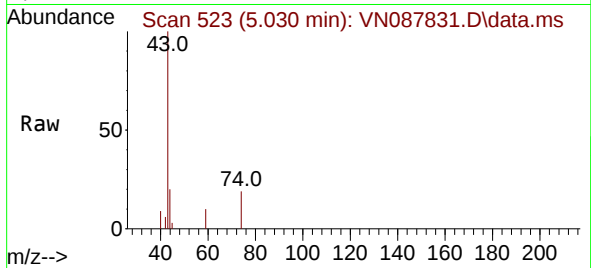




#18
Methyl Acetate
Concen: 5.212 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

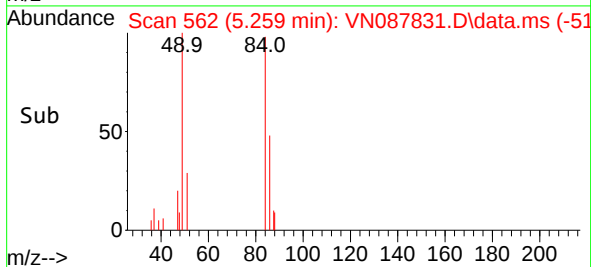
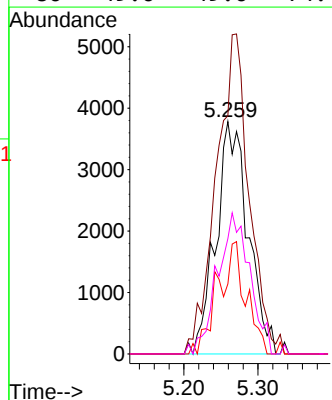
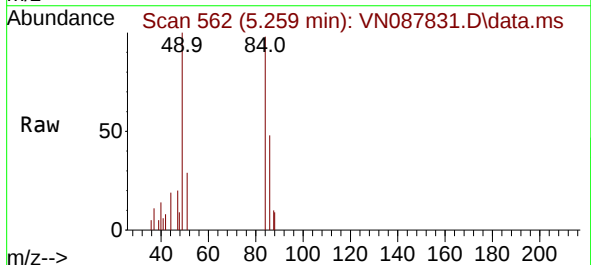
Instrument :
MSVOA_N
ClientSampleId :
WC-32

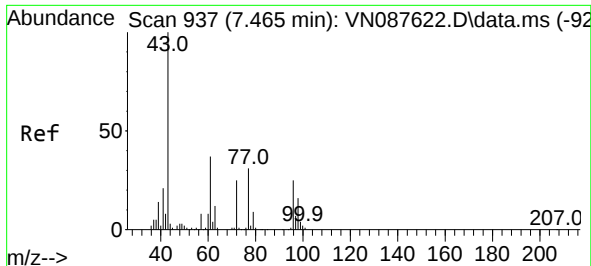
Tgt Ion: 43 Resp: 20442
Ion Ratio Lower Upper
43 100
74 12.6 17.6 26.4#



#20
Methylene Chloride
Concen: 3.049 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 84 Resp: 11419
Ion Ratio Lower Upper
84 100
49 102.5 103.4 155.2#
51 30.2 33.8 50.8#
86 49.6 49.6 74.4

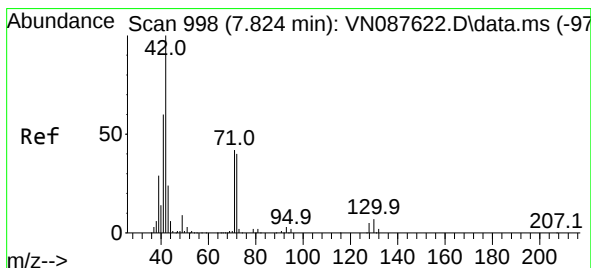
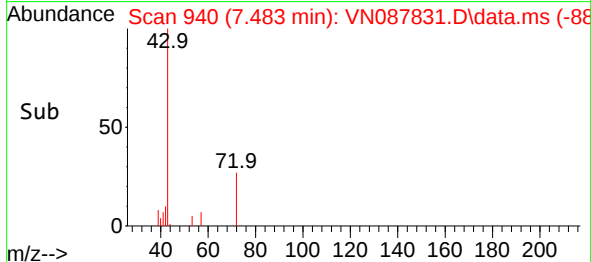
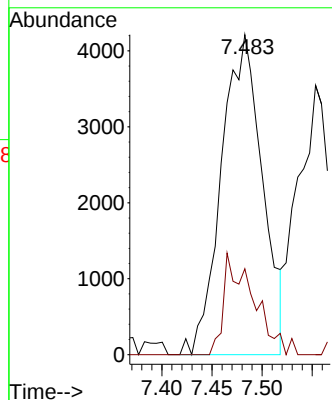
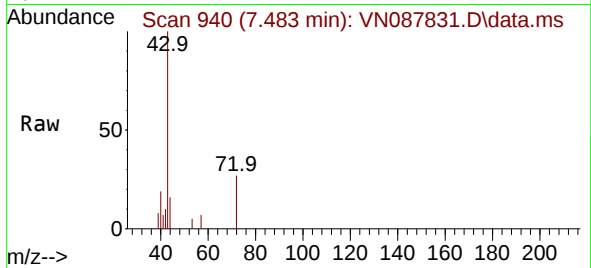




#25
2-Butanone
Concen: 4.865 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

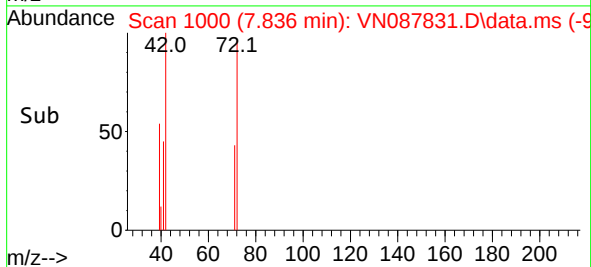
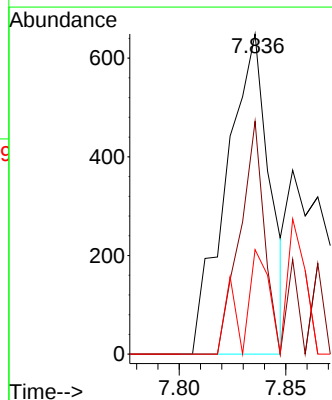
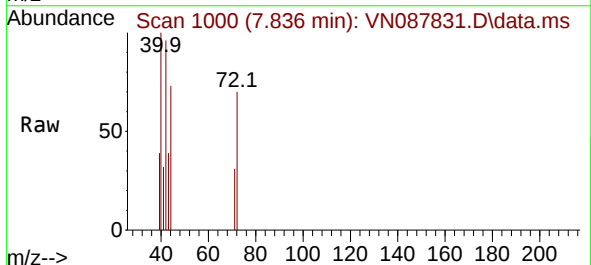
Instrument :
MSVOA_N
ClientSampleId :
WC-32

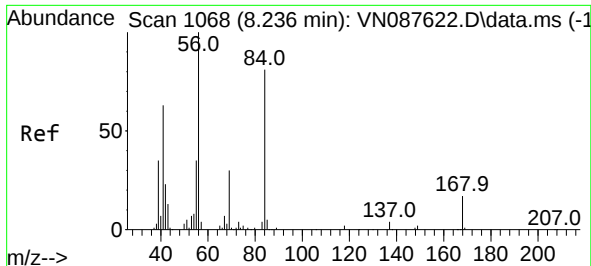
Tgt Ion: 43 Resp: 11989
Ion Ratio Lower Upper
43 100
72 26.8 19.9 29.9



#29
Tetrahydrofuran
Concen: 0.581 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 42 Resp: 921
Ion Ratio Lower Upper
42 100
72 40.8 33.7 50.5
71 20.3 31.9 47.9#

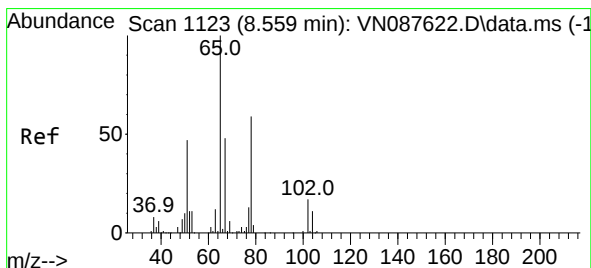
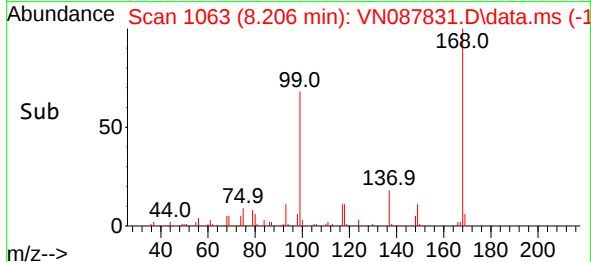
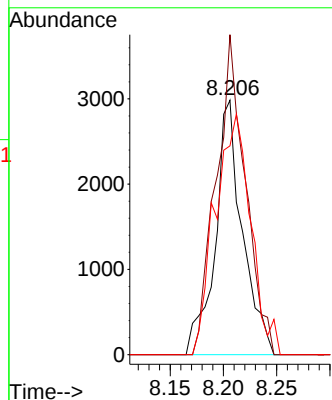
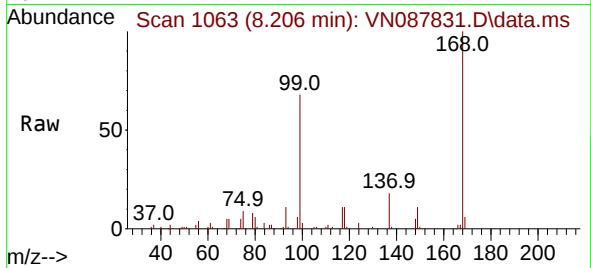




#31
Cyclohexane
Concen: 1.217 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

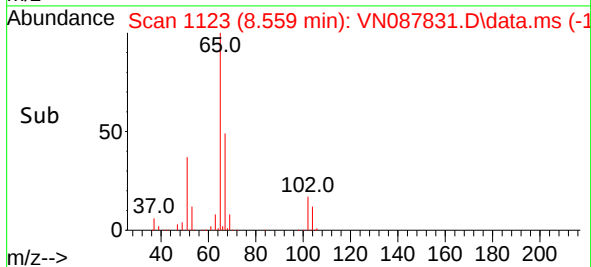
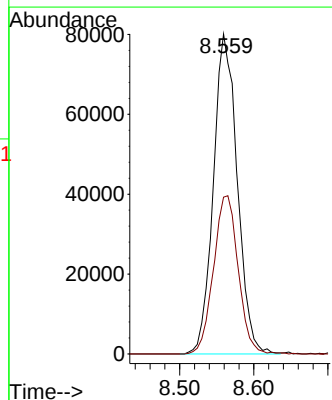
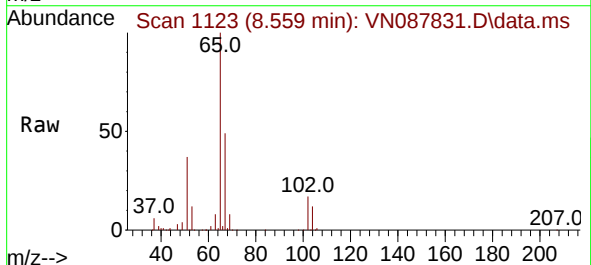
Instrument :
MSVOA_N
ClientSampleId :
WC-32

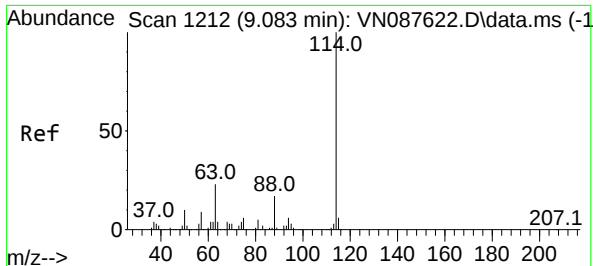
Tgt Ion: 56 Resp: 5268
Ion Ratio Lower Upper
56 100
69 125.8 23.7 35.5#
84 82.1 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 52.147 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 65 Resp: 179438
Ion Ratio Lower Upper
65 100
67 51.1 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087831.D

Acq: 15 Sep 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

WC-32

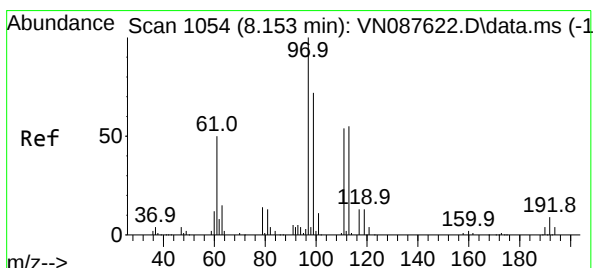
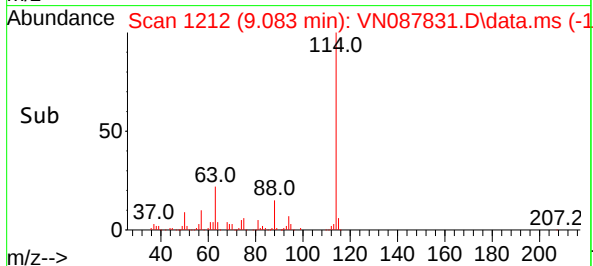
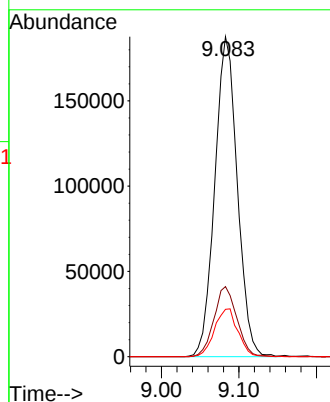
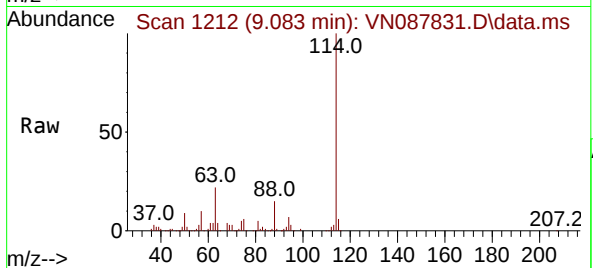
Tgt Ion:114 Resp: 378625

Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.2

88 14.8 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.164 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.000 min

Lab File: VN087831.D

Acq: 15 Sep 2025 12:56

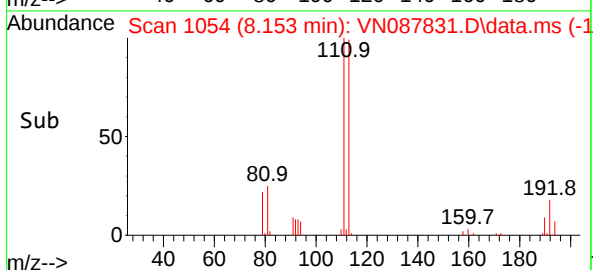
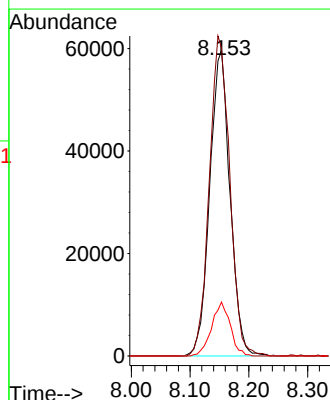
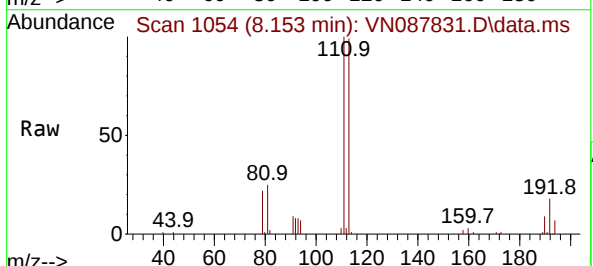
Tgt Ion:113 Resp: 142598

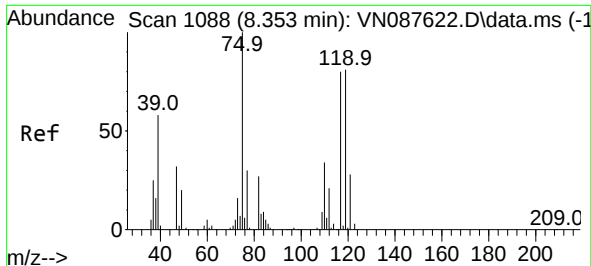
Ion Ratio Lower Upper

113 100

111 105.7 82.8 124.2

192 16.3 12.8 19.2

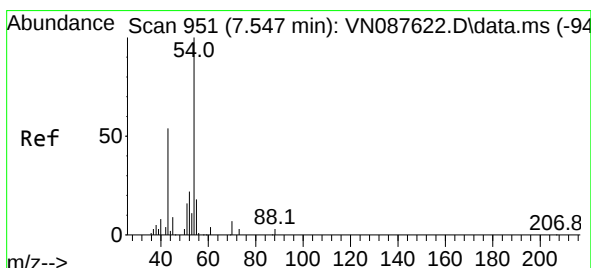
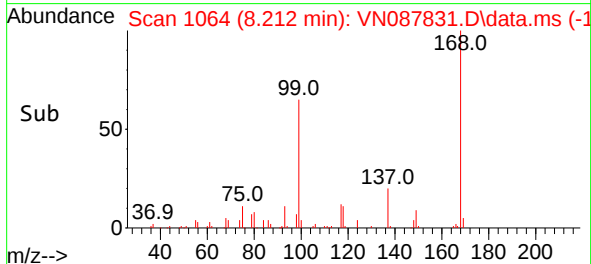
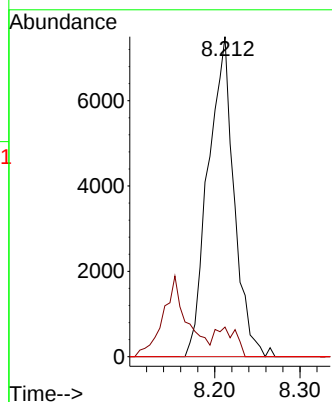
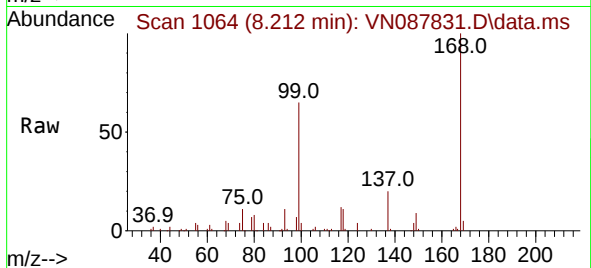




#36
1,1-Dichloropropene
Concen: 3.772 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.141 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

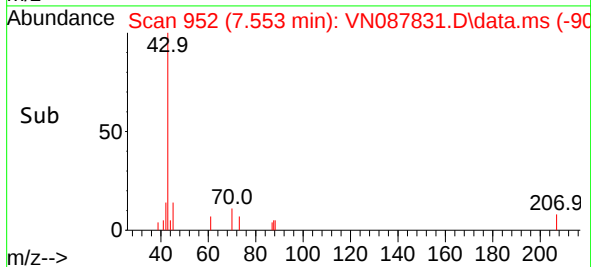
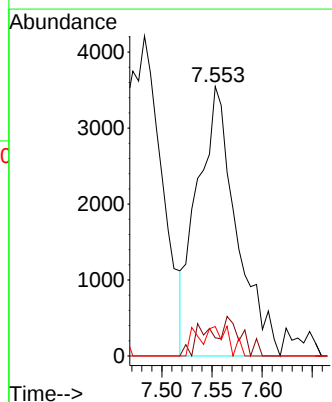
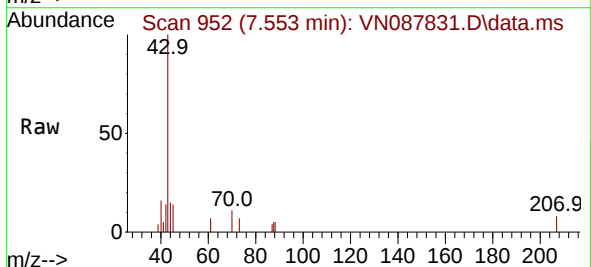
Instrument :
MSVOA_N
ClientSampleId :
WC-32

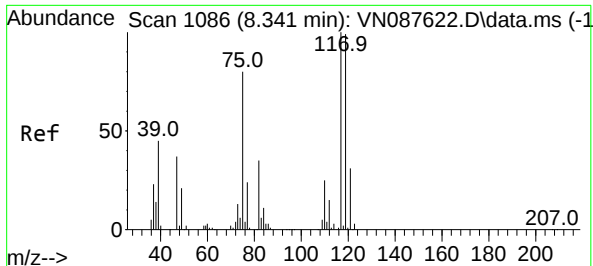
Tgt Ion: 75 Resp: 15817
Ion Ratio Lower Upper
75 100
110 7.5 15.9 47.6#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.680 ug/l
RT: 7.553 min Scan# 952
Delta R.T. 0.006 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 43 Resp: 9625
Ion Ratio Lower Upper
43 100
61 6.3 9.3 13.9#
70 5.8 7.0 10.6#

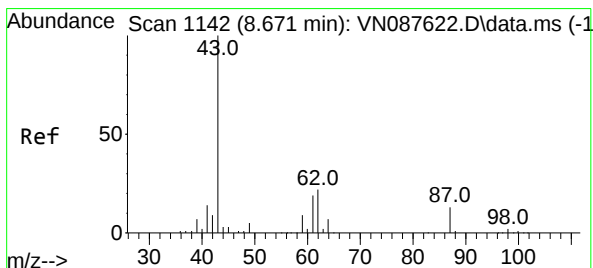
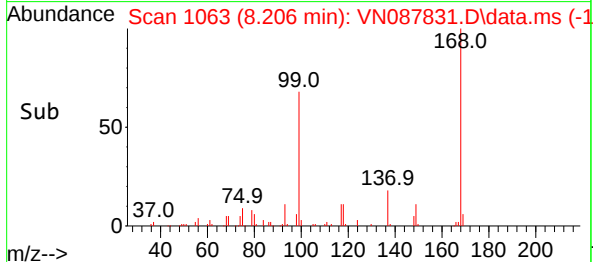
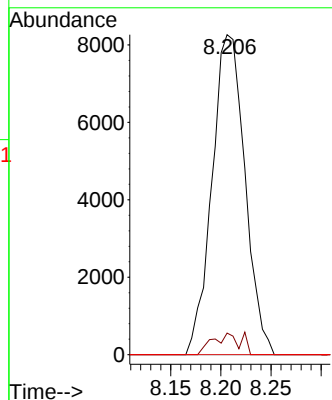
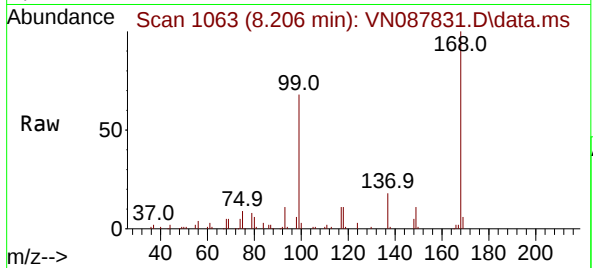




#38
Carbon Tetrachloride
Concen: 4.564 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

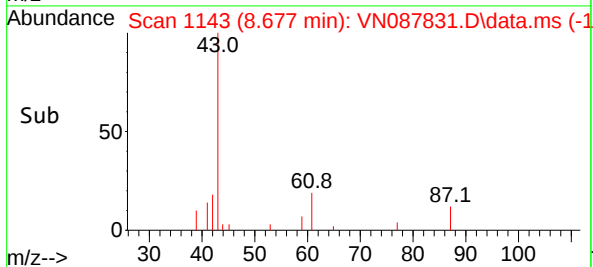
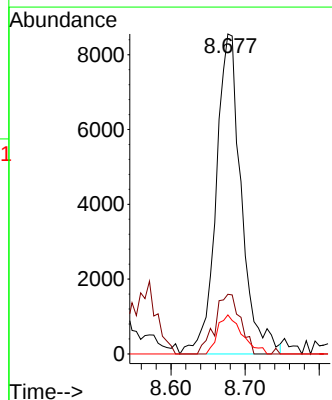
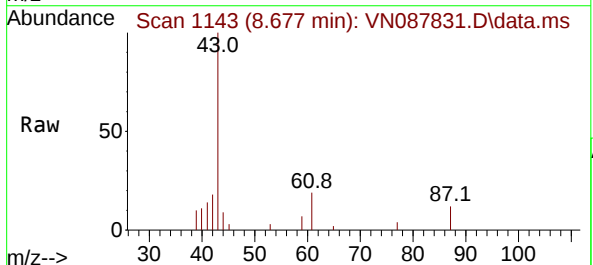
Instrument :
MSVOA_N
ClientSampleId :
WC-32

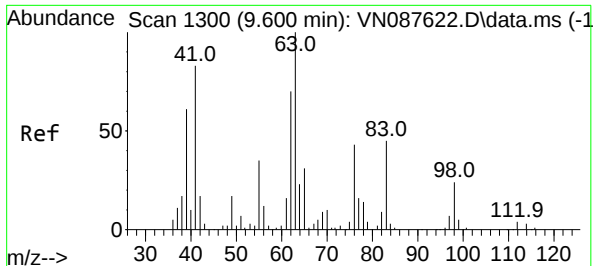
Tgt Ion:117 Resp: 18896
Ion Ratio Lower Upper
117 100
119 6.7 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.260 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 43 Resp: 20221
Ion Ratio Lower Upper
43 100
61 18.8 18.8 28.2#
87 11.7 9.6 14.4





#45

1,2-Dichloropropane

Concen: 0.311 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN087831.D

Acq: 15 Sep 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

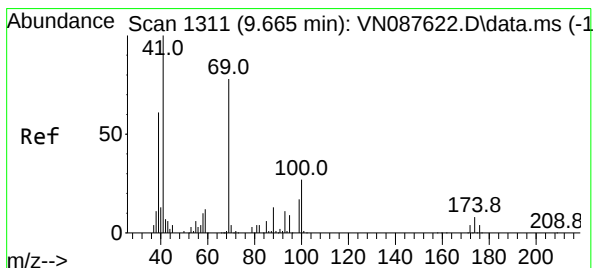
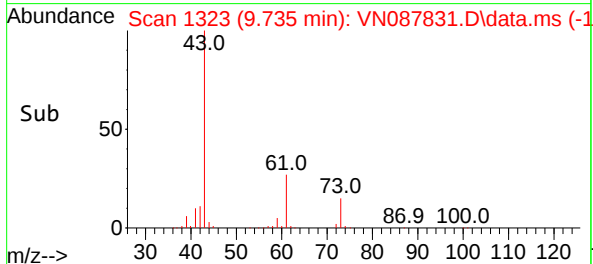
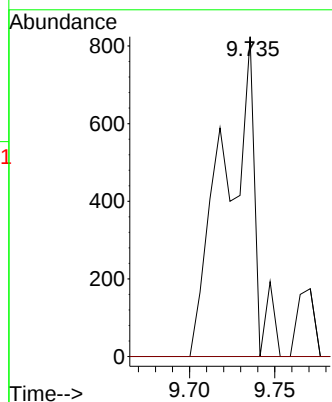
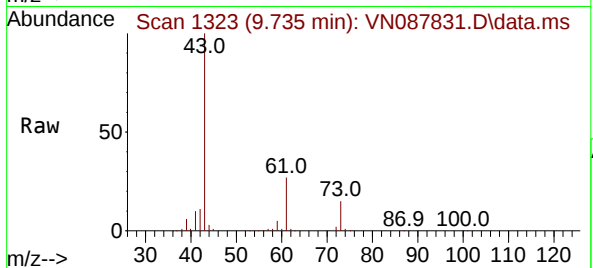
WC-32

Tgt Ion: 63 Resp: 1056

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 21.636 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087831.D

Acq: 15 Sep 2025 12:56

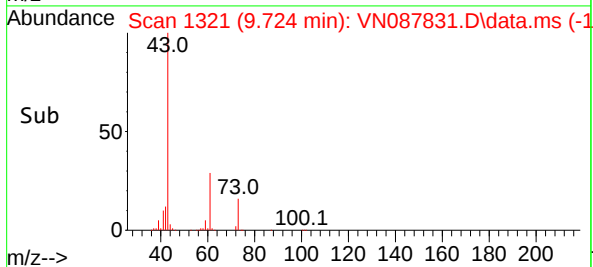
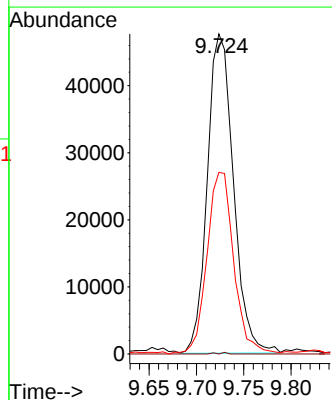
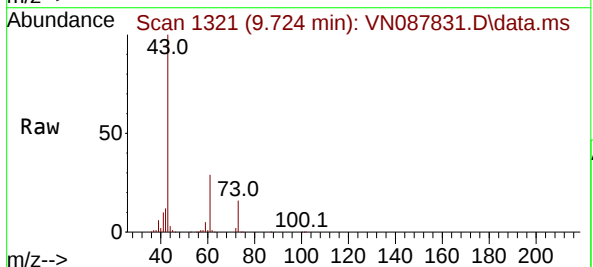
Tgt Ion: 41 Resp: 91563

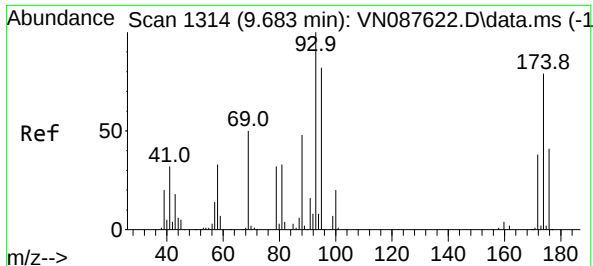
Ion Ratio Lower Upper

41 100

69 0.1 62.7 94.1#

39 58.2 52.9 79.3





#49

1,4-Dioxane

Concen: 1.695 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN087831.D

Acq: 15 Sep 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

WC-32

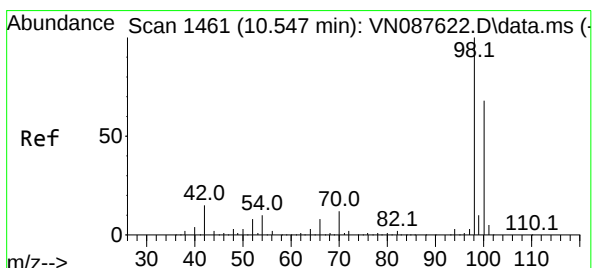
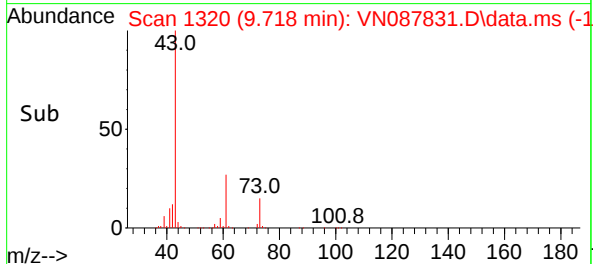
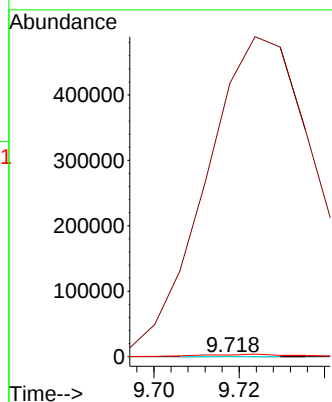
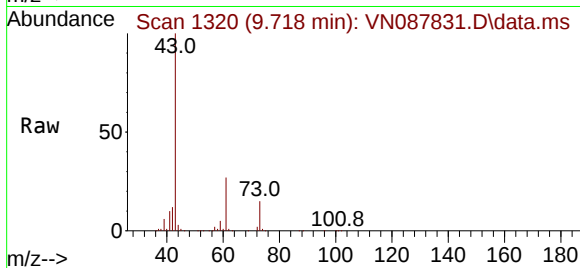
Tgt Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 1007973.1 0.0 0.0#

58 6934.4 57.9 86.9#



#50

Toluene-d8

Concen: 49.702 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087831.D

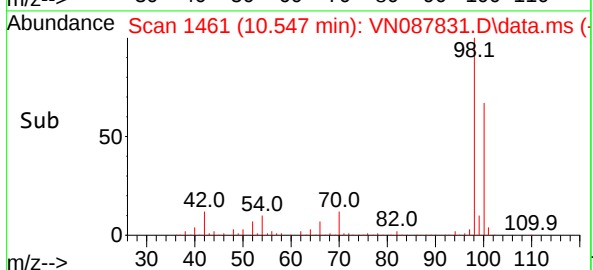
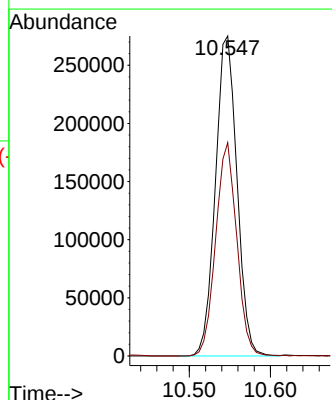
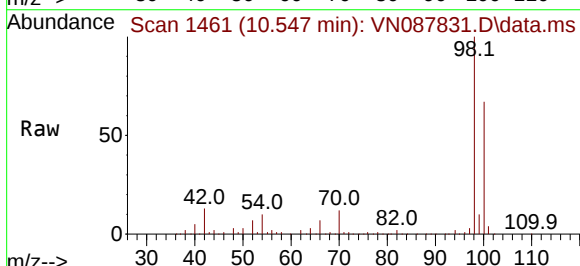
Acq: 15 Sep 2025 12:56

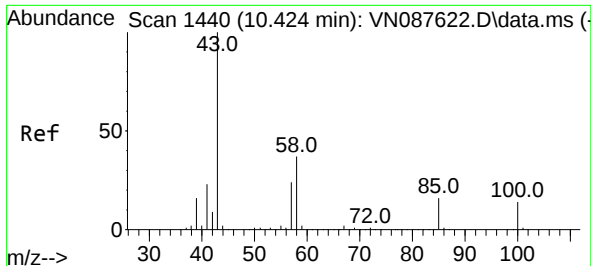
Tgt Ion: 98 Resp: 508535

Ion Ratio Lower Upper

98 100

100 65.1 52.8 79.2

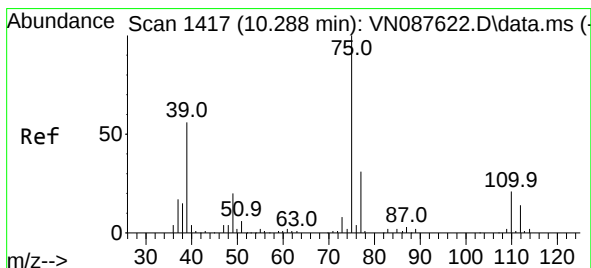
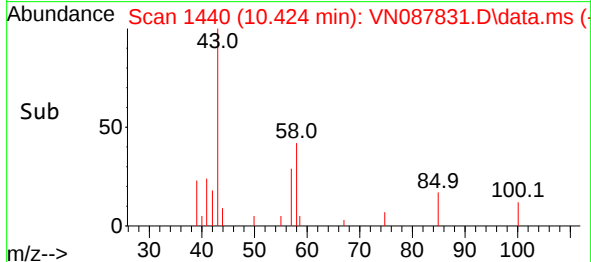
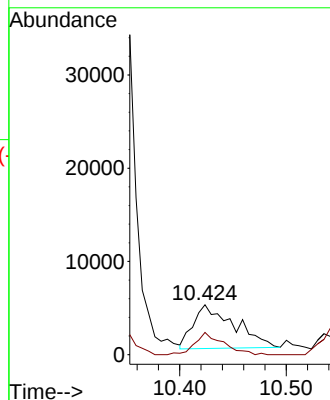
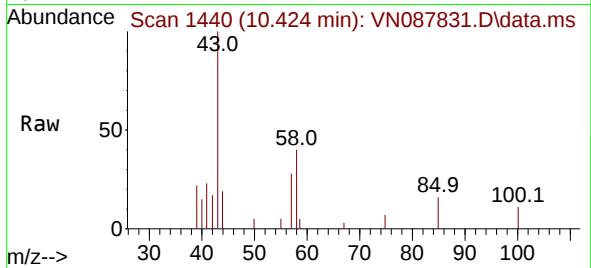




#51
4-Methyl-2-Pentanone
Concen: 2.311 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

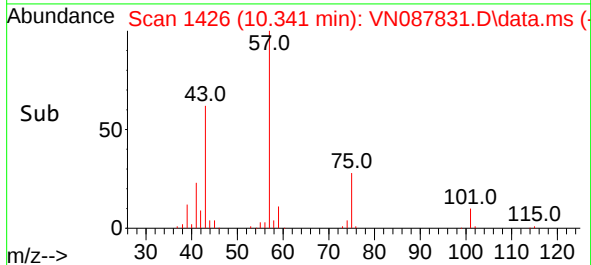
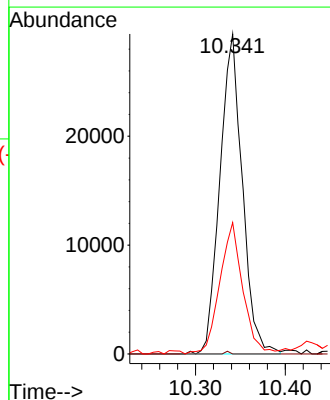
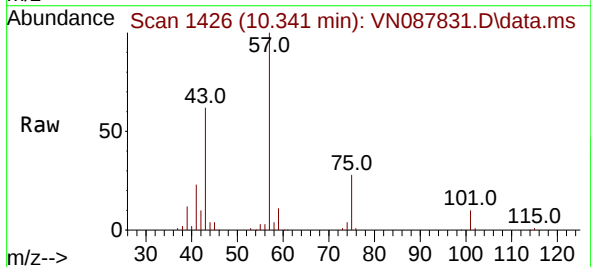
Instrument :
MSVOA_N
ClientSampleId :
WC-32

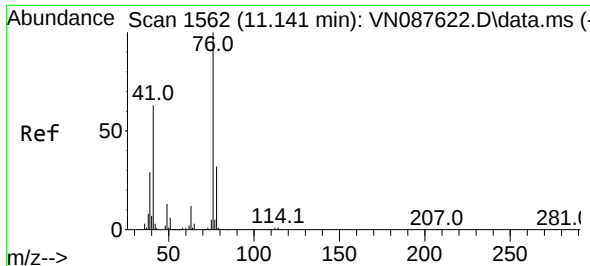
Tgt Ion: 43 Resp: 12475
Ion Ratio Lower Upper
43 100
58 35.2 29.6 44.4



#54
cis-1,3-Dichloropropene
Concen: 9.593 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 75 Resp: 50985
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
39 40.1 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.498 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN087831.D

Acq: 15 Sep 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

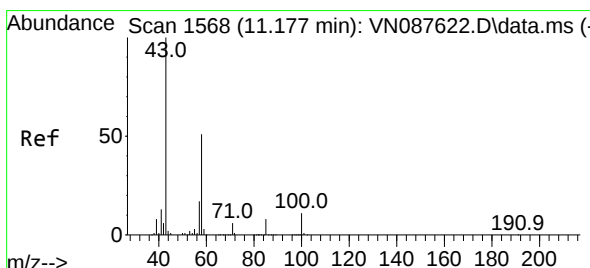
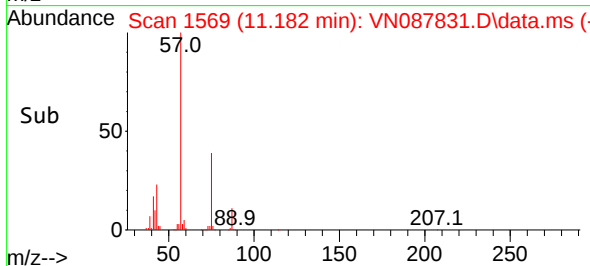
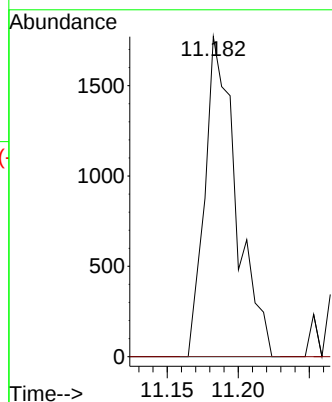
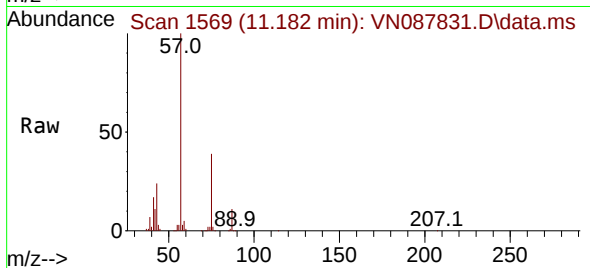
WC-32

Tgt Ion: 76 Resp: 2717

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 9.426 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN087831.D

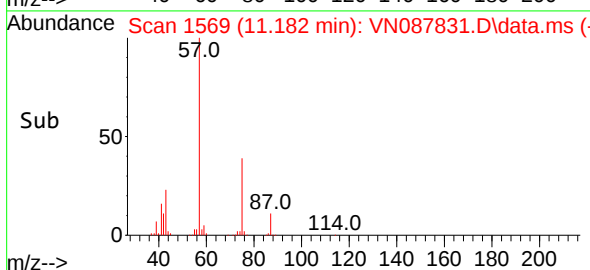
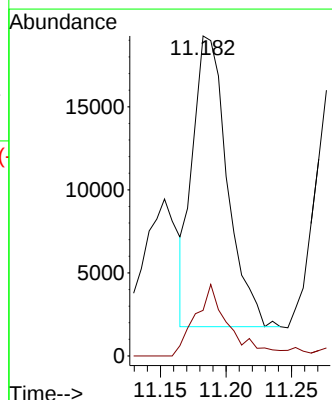
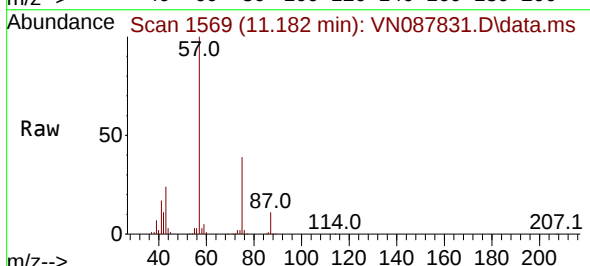
Acq: 15 Sep 2025 12:56

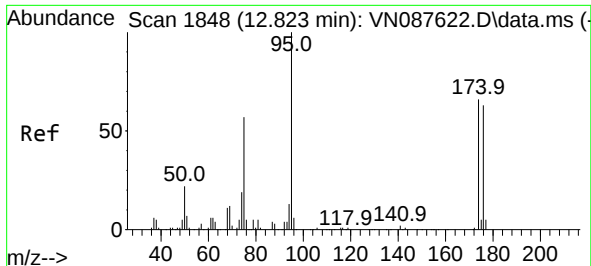
Tgt Ion: 43 Resp: 32159

Ion Ratio Lower Upper

43 100

58 23.7 25.9 77.8#

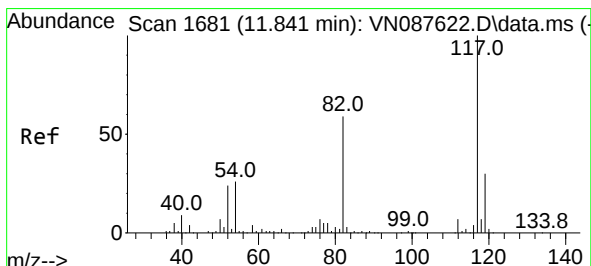
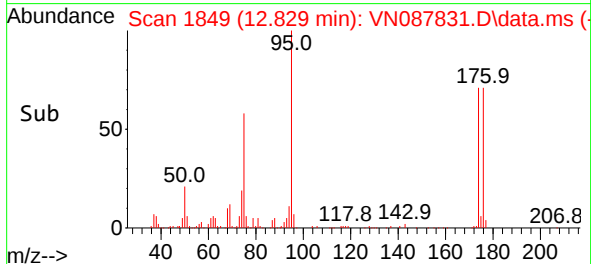
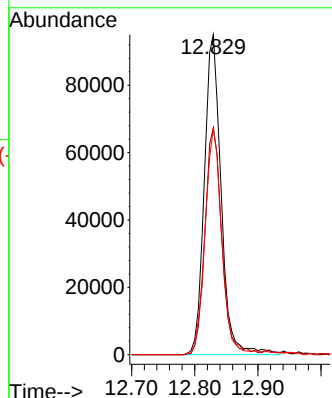
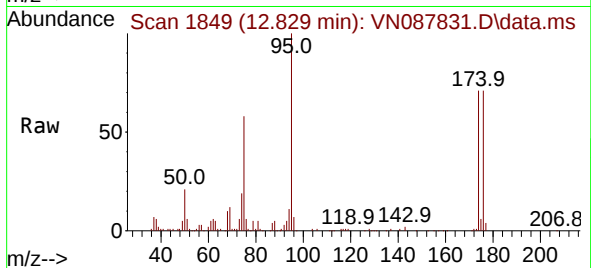




#62
4-Bromofluorobenzene
Concen: 48.259 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

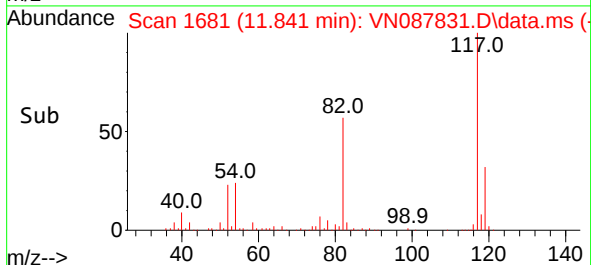
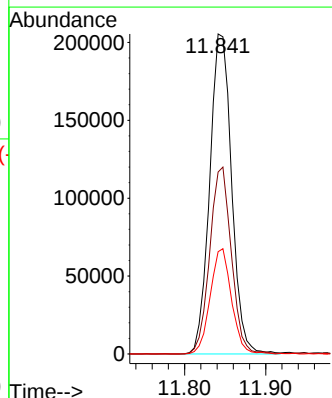
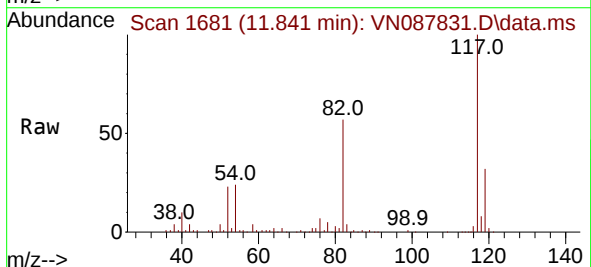
Instrument :
MSVOA_N
ClientSampleId :
WC-32

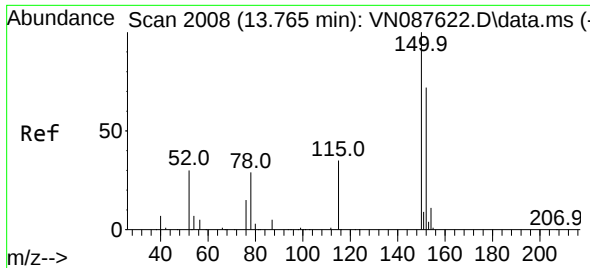
Tgt Ion: 95 Resp: 175598
Ion Ratio Lower Upper
95 100
174 71.1 0.0 138.4
176 70.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 117 Resp: 385729
Ion Ratio Lower Upper
117 100
82 56.8 47.4 71.2
119 31.9 24.3 36.5

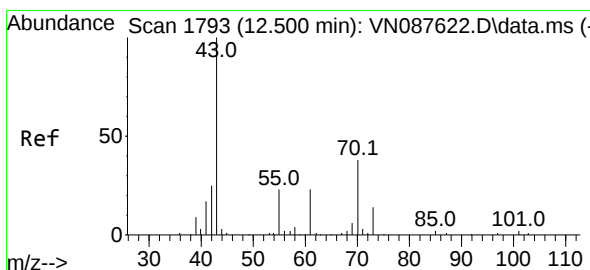
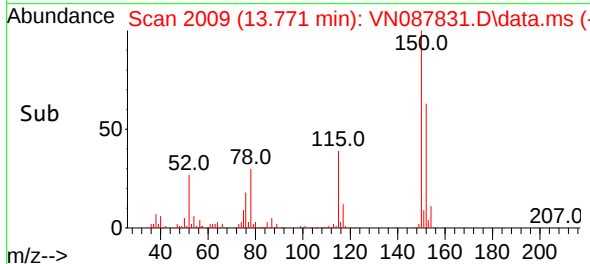
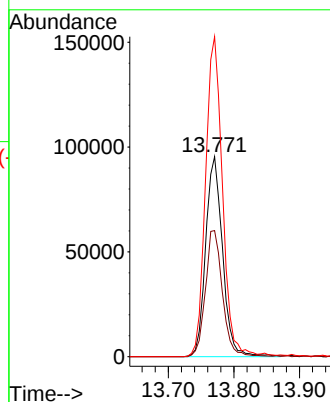
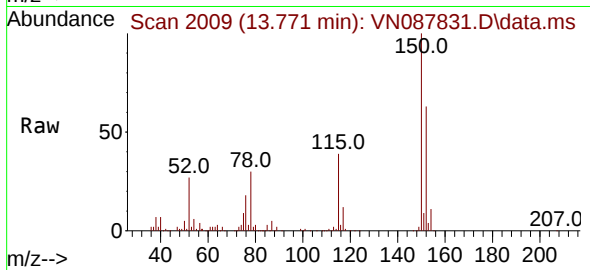




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

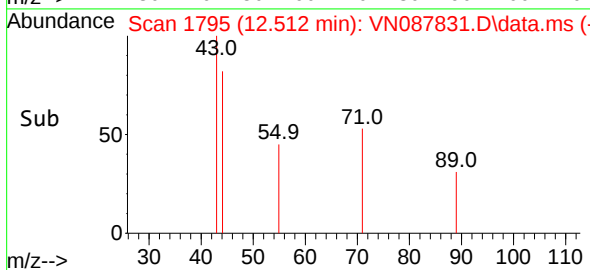
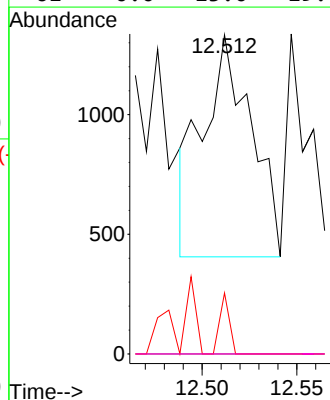
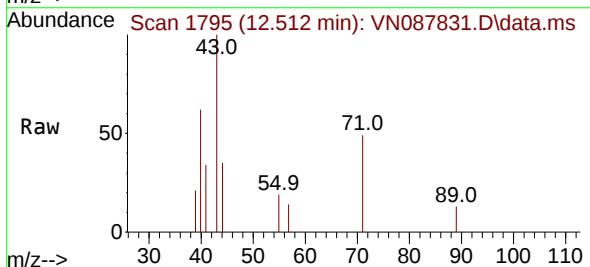
Instrument :
MSVOA_N
ClientSampleId :
WC-32

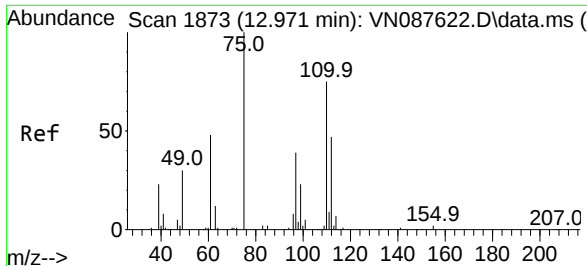
Tgt Ion:152 Resp: 171884
Ion Ratio Lower Upper
152 100
115 63.5 32.3 96.8
150 159.9 0.0 351.0



#74
N-ethyl acetate
Concen: 0.314 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. 0.012 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
70 0.0 27.6 41.4#
55 5.4 13.0 19.6#
61 0.0 13.0 19.6#

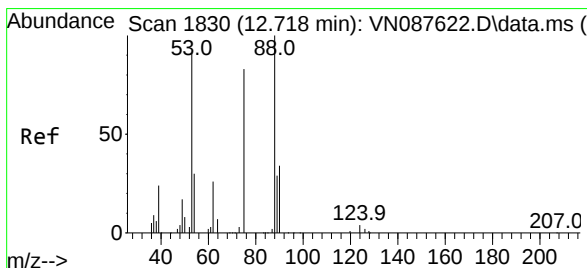
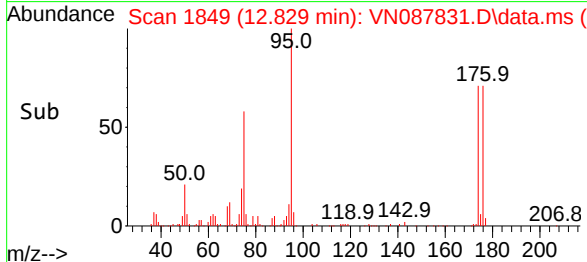
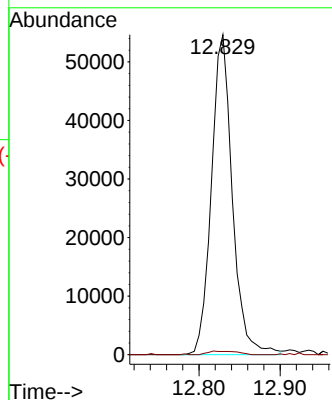
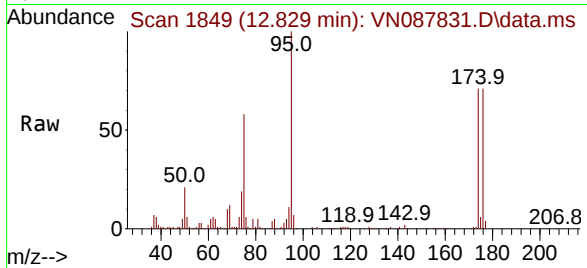




#76
1,2,3-Trichloropropane
Concen: 24.297 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Instrument :
MSVOA_N
ClientSampleId :
WC-32

Tgt Ion: 75 Resp: 97934
Ion Ratio Lower Upper
75 100
77 1.6 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.322 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087831.D
Acq: 15 Sep 2025 12:56

Tgt Ion: 75 Resp: 97934
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.3 35.6 53.4#

