

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087232.D
 Acq On : 27 Jun 2025 18:46
 Operator : JC\MD
 Sample : Q2430-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-E/FRE

Quant Time: Jun 27 23:49:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

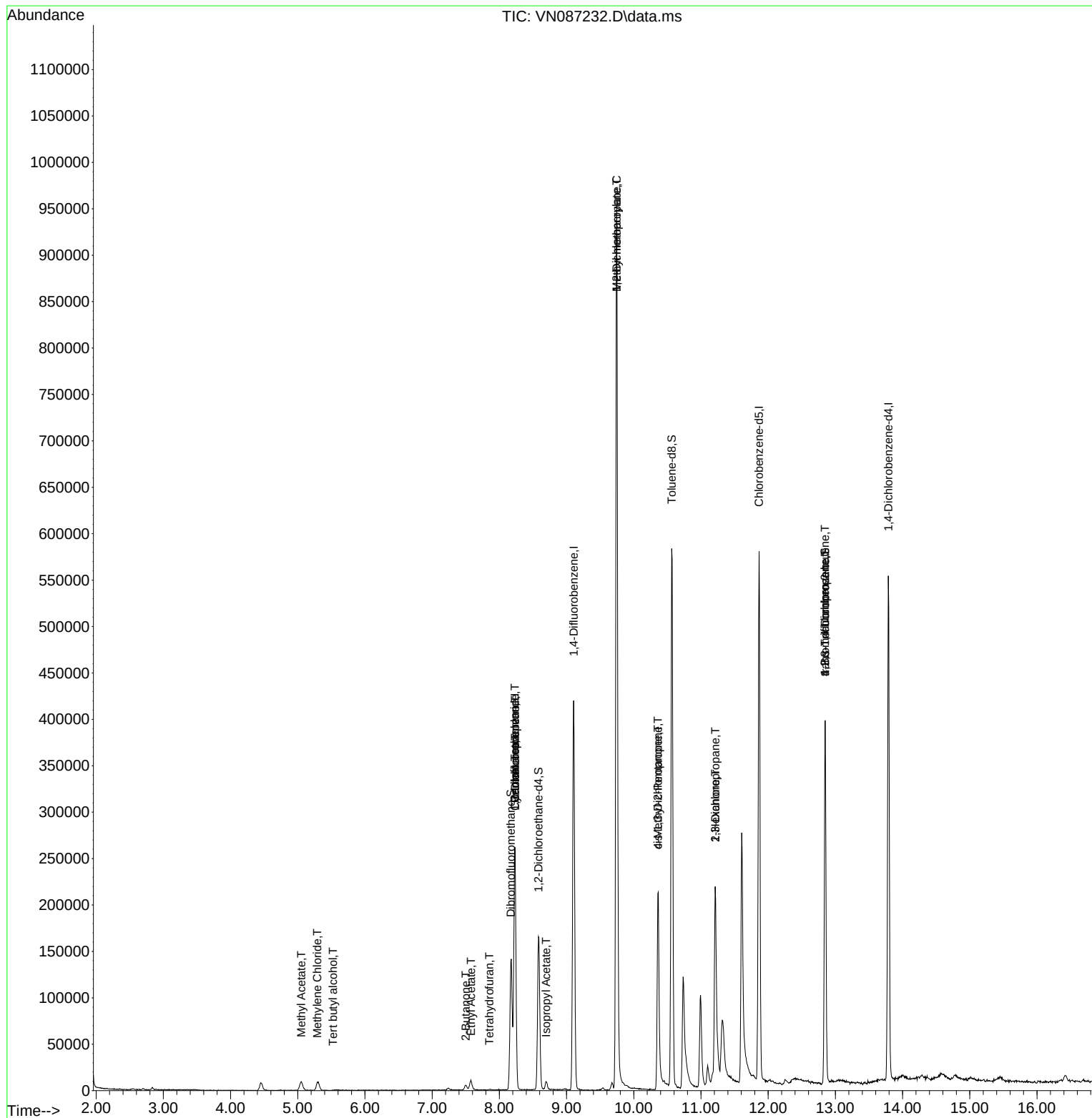
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	202146	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	378100	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	345353	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	154892	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	140431	48.274	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.540%
35) Dibromofluoromethane	8.171	113	109201	44.673	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.340%
50) Toluene-d8	10.565	98	425753	42.112	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	84.220%#
62) 4-Bromofluorobenzene	12.847	95	148998	42.473	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	84.940%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	540	0.842	ug/l #	73
14) Allyl chloride	5.059	41	67	Below Cal	#	23
16) Acetone	4.459	43	17198	Below Cal		99
18) Methyl Acetate	5.053	43	20328	4.891	ug/l	96
20) Methylene Chloride	5.289	84	7480	1.055	ug/l	96
25) 2-Butanone	7.500	43	9333	4.232	ug/l	92
29) Tetrahydrofuran	7.853	42	415	0.287	ug/l #	42
31) Cyclohexane	8.236	56	4083	0.907	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	15932	4.450	ug/l #	50
37) Ethyl Acetate	7.577	43	16595	1.365	ug/l #	96
38) Carbon Tetrachloride	8.230	117	20486	5.875	ug/l #	16
43) Isopropyl Acetate	8.694	43	10169	1.545	ug/l #	92
45) 1,2-Dichloropropane	9.747	63	1441	0.505	ug/l #	44
48) Methyl methacrylate	9.747	41	85374	26.826	ug/l #	39
51) 4-Methyl-2-Pentanone	10.359	43	91124	16.742	ug/l #	46
54) cis-1,3-Dichloropropene	10.359	75	50781	11.028	ug/l #	58
56) Ethyl methacrylate	10.882	69	217	Below Cal	#	28
57) 1,3-Dichloropropane	11.212	76	3228	0.683	ug/l #	43
59) 2-Hexanone	11.212	43	35339	12.068	ug/l #	55
76) 1,2,3-Trichloropropane	12.847	75	73543	21.281	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	73543	47.763	ug/l #	14

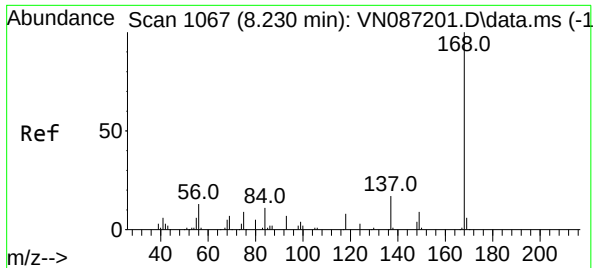
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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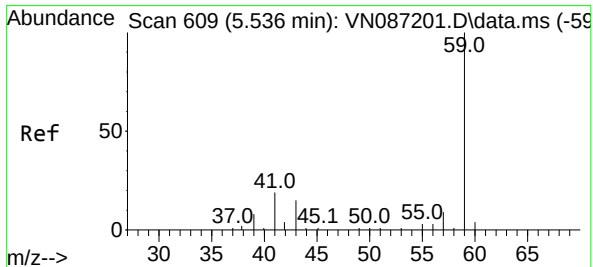
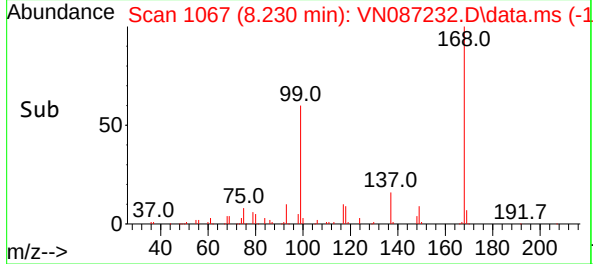
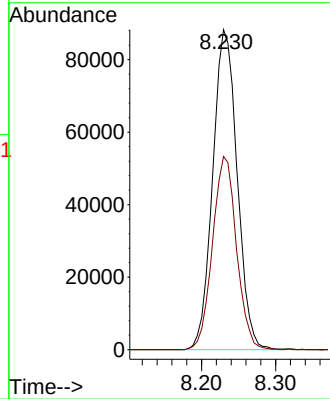
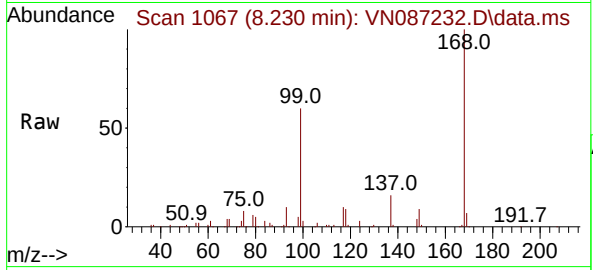




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

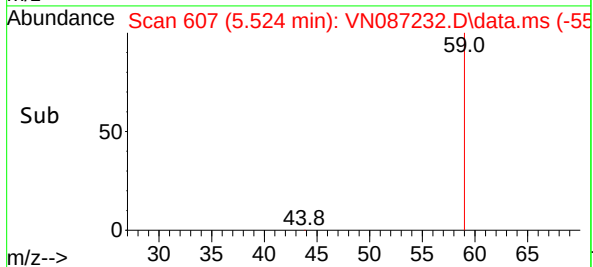
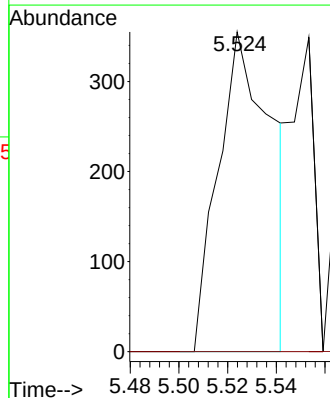
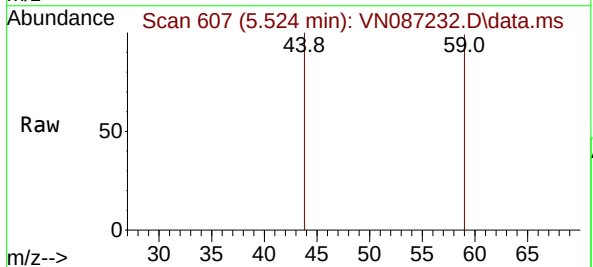
Instrument :
MSVOA_N
ClientSampleId :
MH-E/FRE

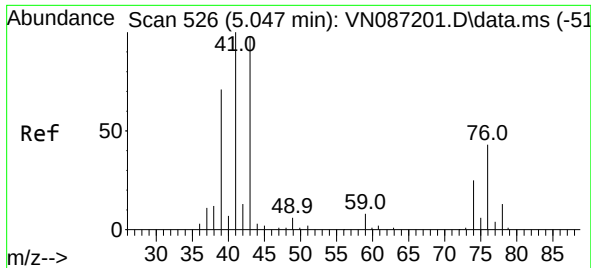
Tgt Ion:168 Resp: 202146
Ion Ratio Lower Upper
168 100
99 60.4 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.842 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 59 Resp: 540
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

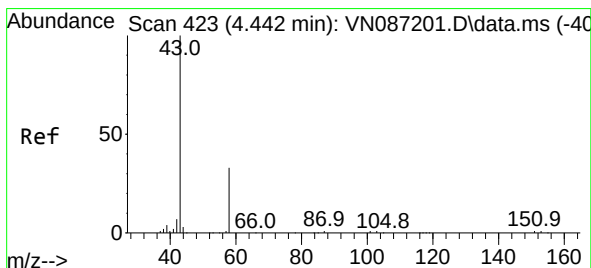
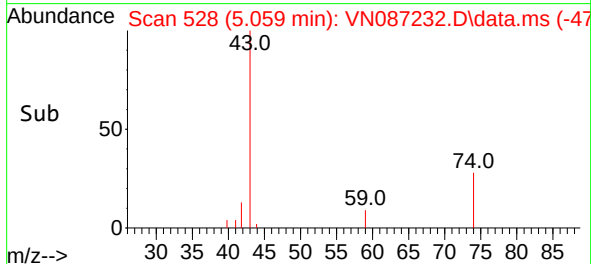
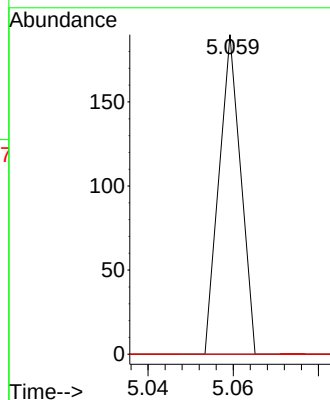
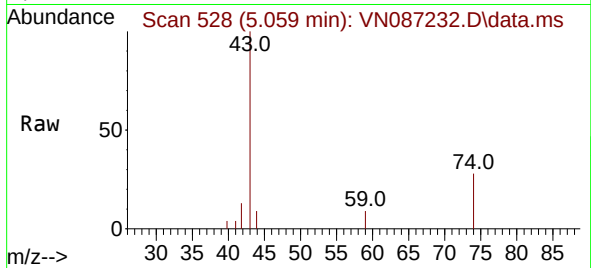




#14
 Allyl chloride
 Concen: Below Cal
 RT: 5.059 min Scan# 51
 Delta R.T. 0.012 min
 Lab File: VN087232.D
 Acq: 27 Jun 2025 18:46

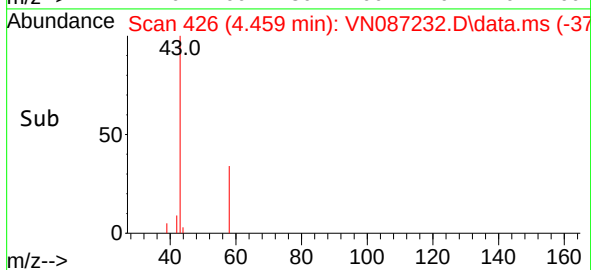
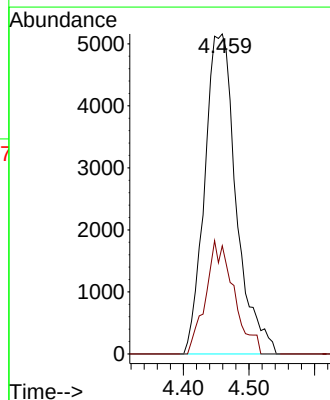
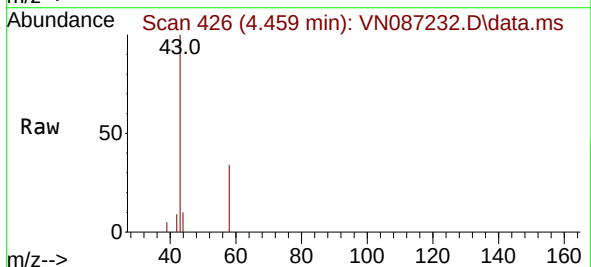
Instrument :
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 MH-E/FRE

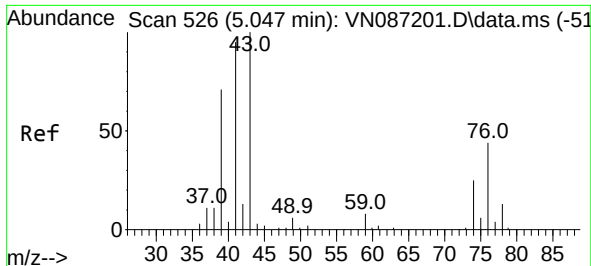
Tgt Ion: 41	Resp: 67
Ion Ratio	Lower Upper
41 100	
39 0.0	55.0 82.6#
76 0.0	31.3 46.9#



#16
 Acetone
 Concen: Below Cal
 RT: 4.459 min Scan# 426
 Delta R.T. 0.017 min
 Lab File: VN087232.D
 Acq: 27 Jun 2025 18:46

Tgt Ion: 43	Resp: 17198
Ion Ratio	Lower Upper
43 100	
58 33.8	26.5 39.7

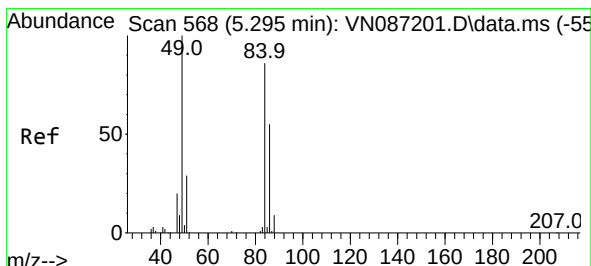
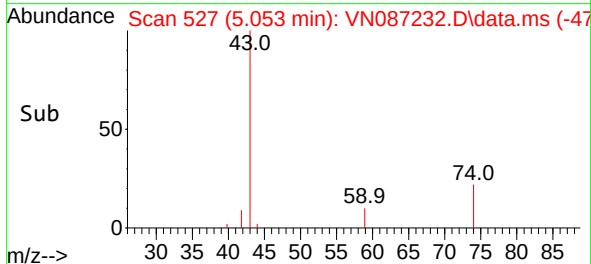
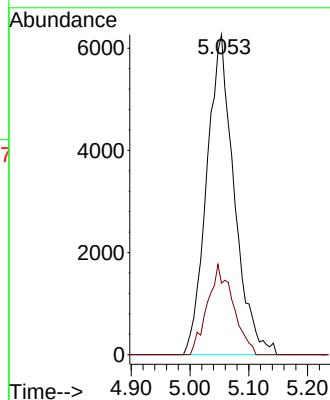
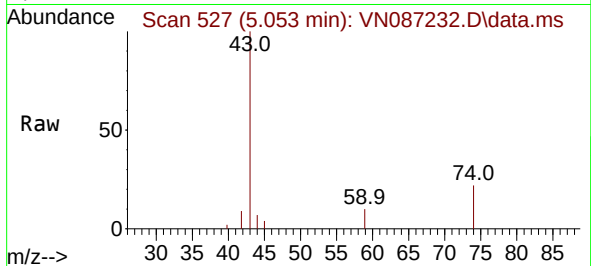




#18
Methyl Acetate
Concen: 4.891 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

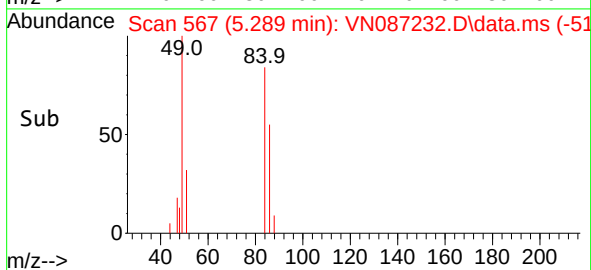
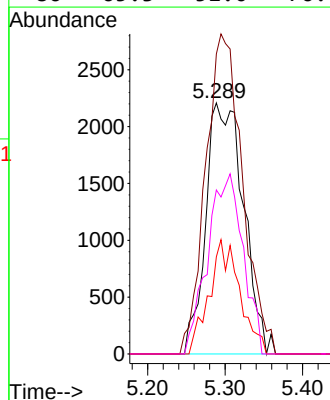
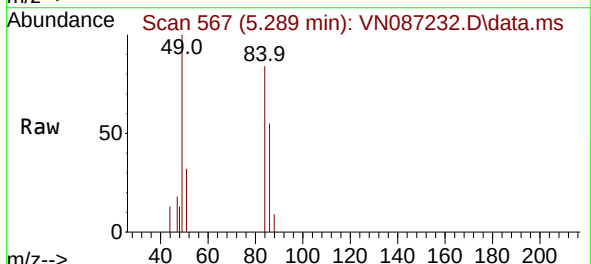
Instrument :
MSVOA_N
ClientSampleId :
MH-E/FRE

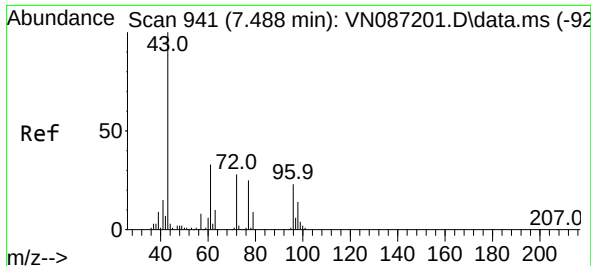
Tgt Ion: 43 Resp: 20328
Ion Ratio Lower Upper
43 100
74 26.3 19.4 29.2



#20
Methylene Chloride
Concen: 1.055 ug/l
RT: 5.289 min Scan# 567
Delta R.T. -0.006 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 84 Resp: 7480
Ion Ratio Lower Upper
84 100
49 119.5 93.0 139.6
51 38.7 27.2 40.8
86 65.3 51.0 76.4

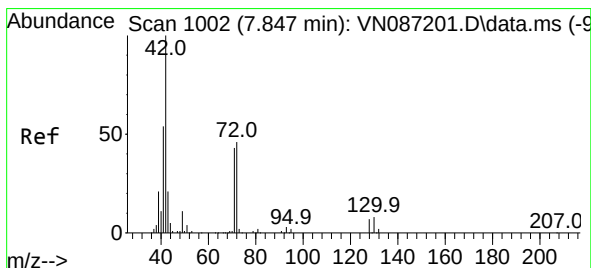
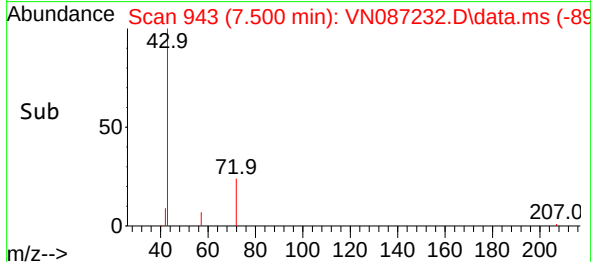
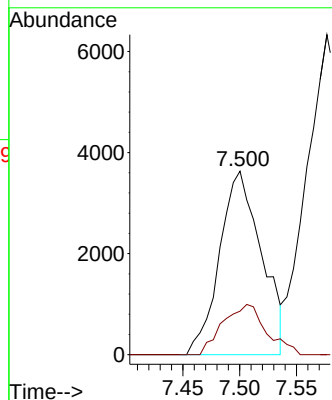
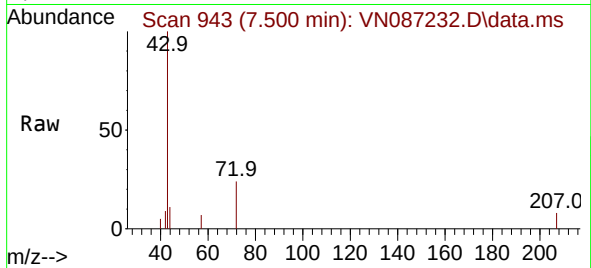




#25
2-Butanone
Concen: 4.232 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

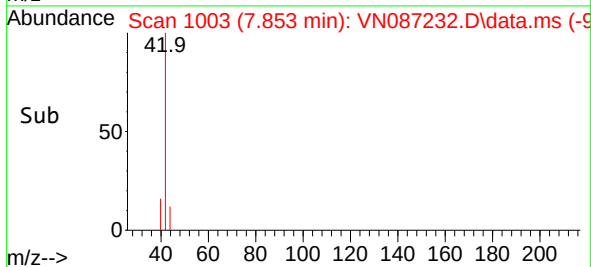
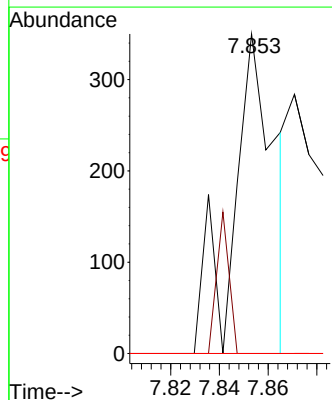
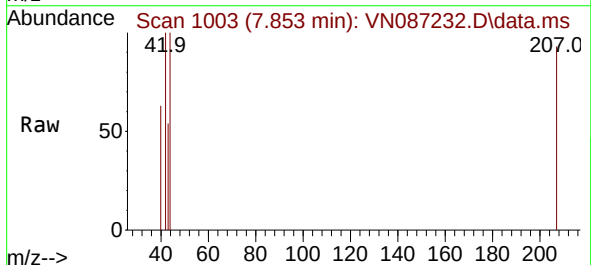
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MSVOA_N
ClientSampleId :
MH-E/FRE

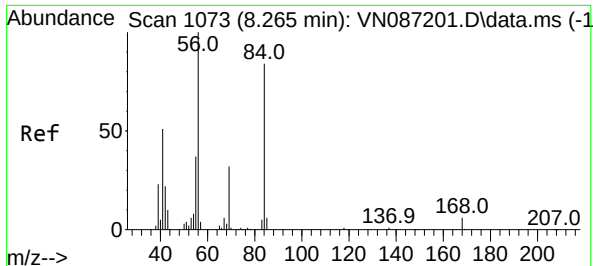
Tgt Ion: 43 Resp: 9333
Ion Ratio Lower Upper
43 100
72 23.7 22.2 33.2



#29
Tetrahydrofuran
Concen: 0.287 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 42 Resp: 415
Ion Ratio Lower Upper
42 100
72 13.3 36.9 55.3#
71 0.0 35.0 52.4#

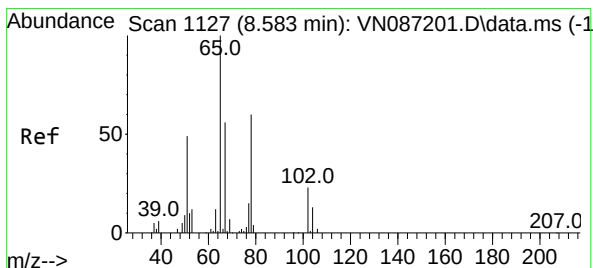
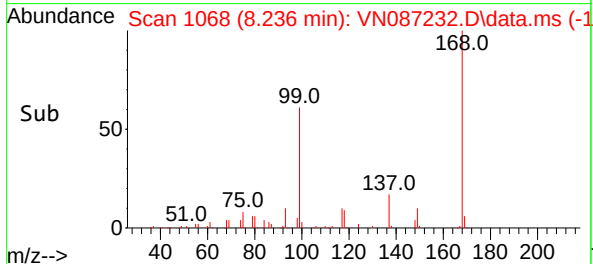
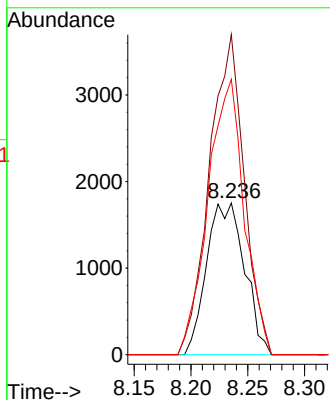
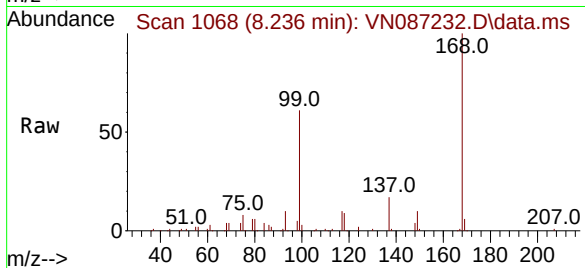




#31
Cyclohexane
Concen: 0.907 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

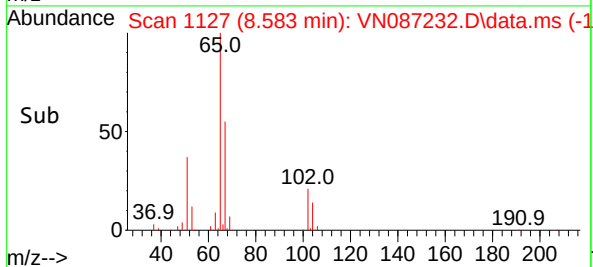
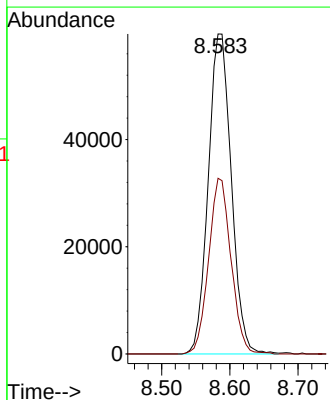
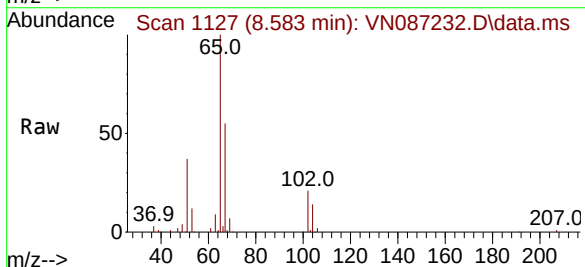
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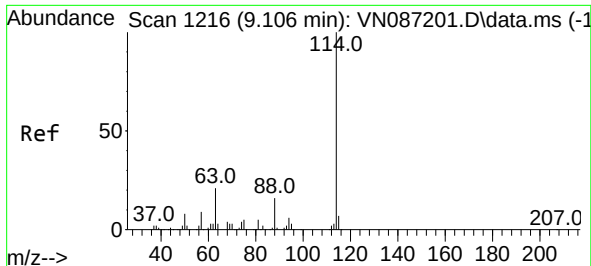
Tgt Ion: 56 Resp: 4083
Ion Ratio Lower Upper
56 100
69 211.0 25.3 37.9#
84 181.6 67.4 101.0#



#33
1,2-Dichloroethane-d4
Concen: 48.274 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 65 Resp: 140431
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.0

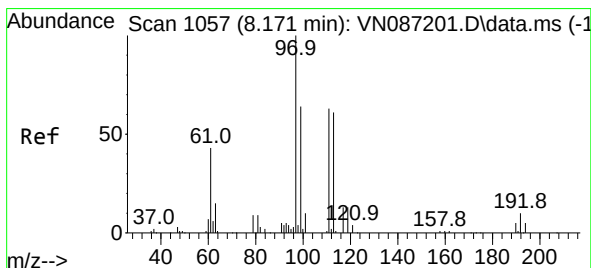
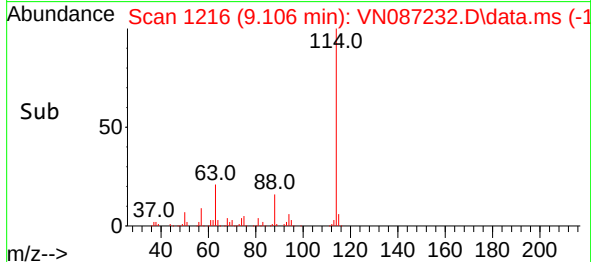
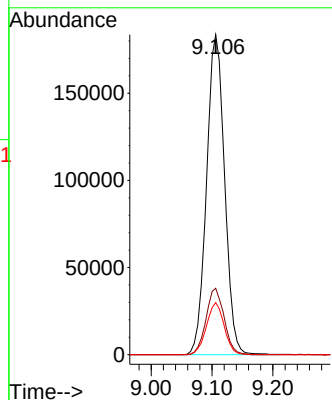
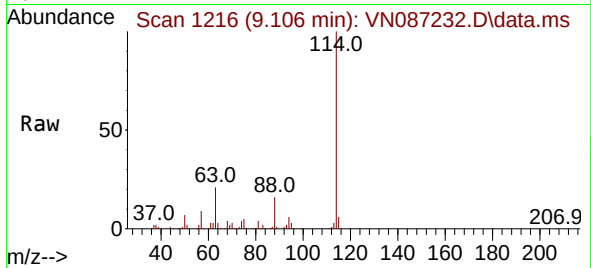




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

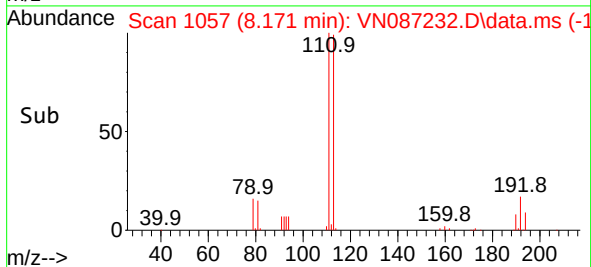
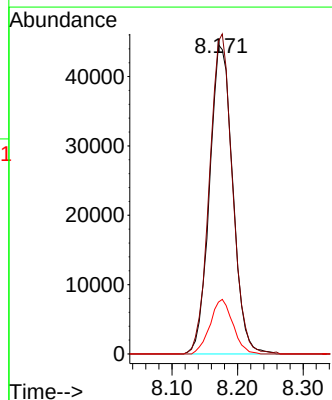
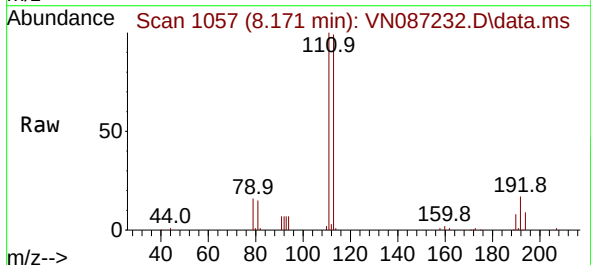
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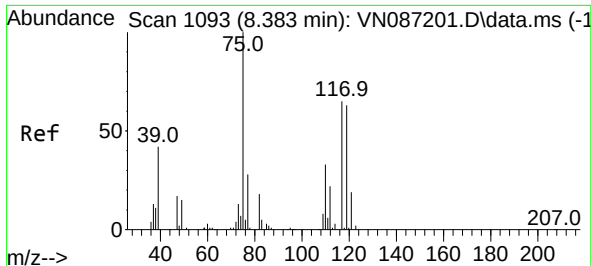
Tgt Ion:114 Resp: 378100
Ion Ratio Lower Upper
114 100
63 20.7 0.0 42.0
88 16.3 0.0 32.0



#35
Dibromofluoromethane
Concen: 44.673 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion:113 Resp: 109201
Ion Ratio Lower Upper
113 100
111 102.5 82.6 124.0
192 17.4 13.5 20.3

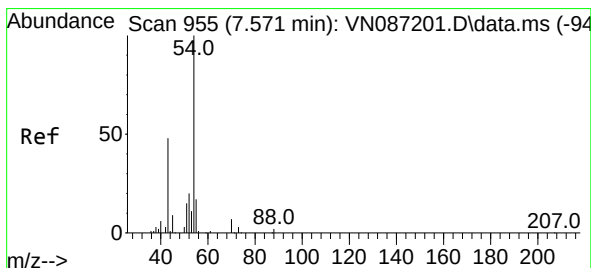
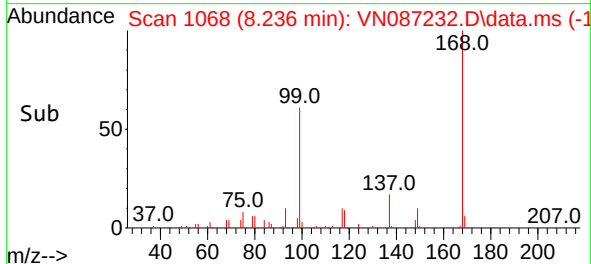
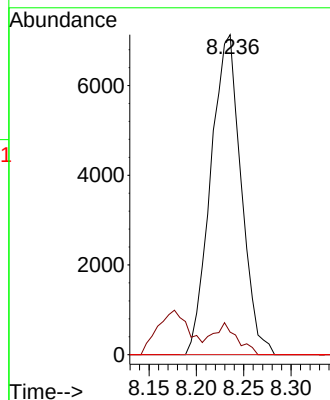
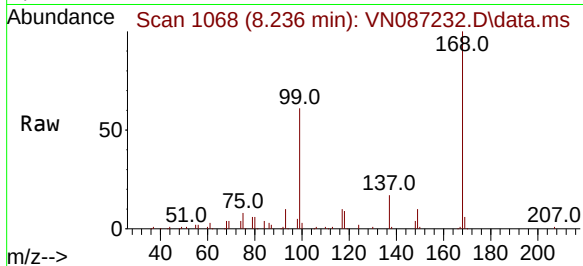




#36
1,1-Dichloropropene
Concen: 4.450 ug/l
RT: 8.236 min Scan# 1093
Delta R.T. -0.147 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

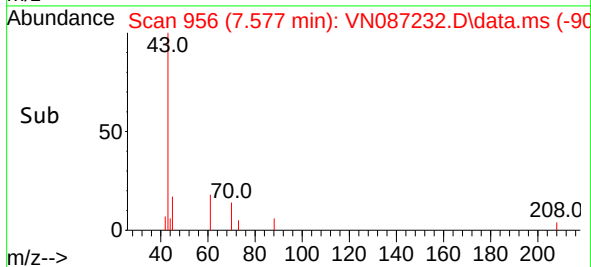
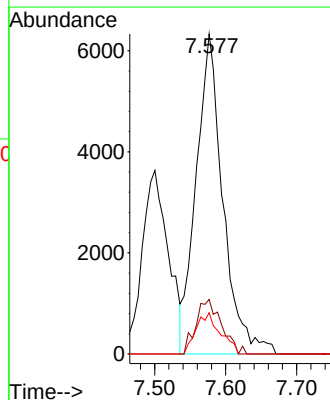
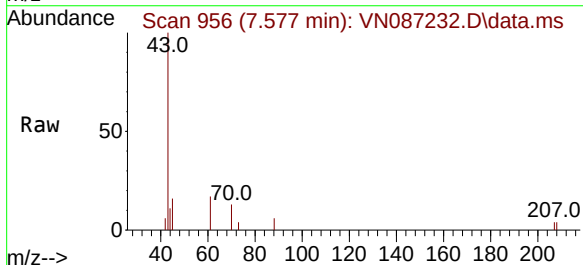
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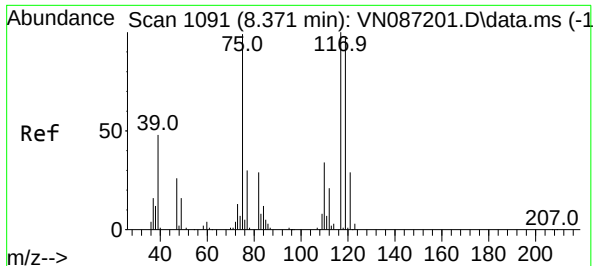
Tgt Ion: 75 Resp: 15932
Ion Ratio Lower Upper
75 100
110 8.0 16.9 50.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 1.365 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 43 Resp: 16595
Ion Ratio Lower Upper
43 100
61 16.3 10.8 16.2#
70 11.6 8.9 13.3

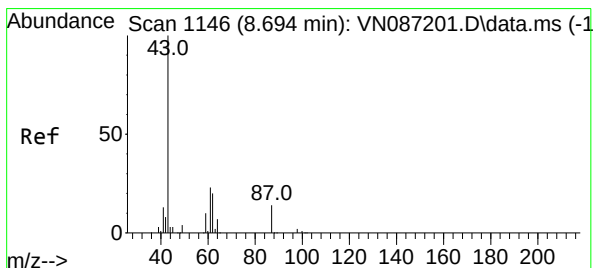
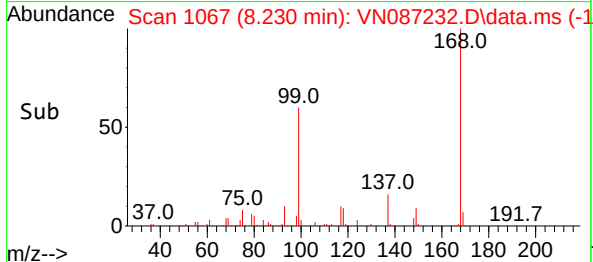
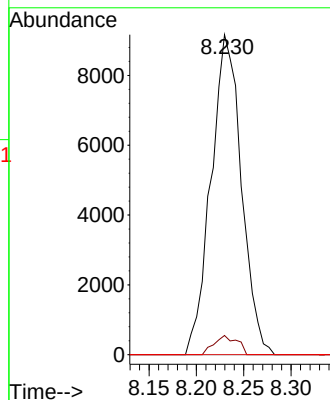
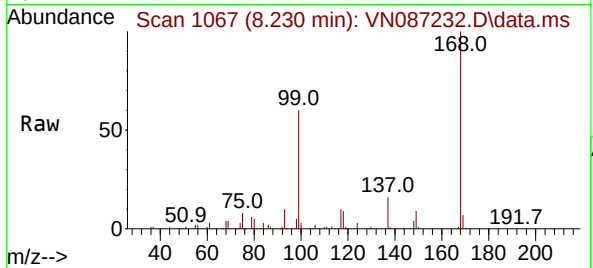




#38
Carbon Tetrachloride
Concen: 5.875 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

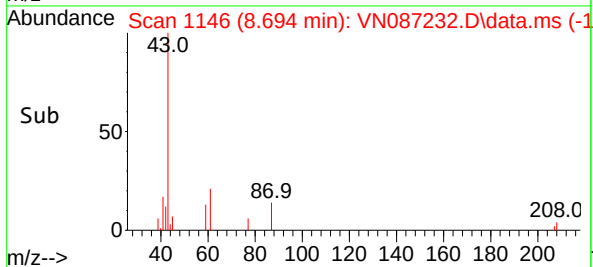
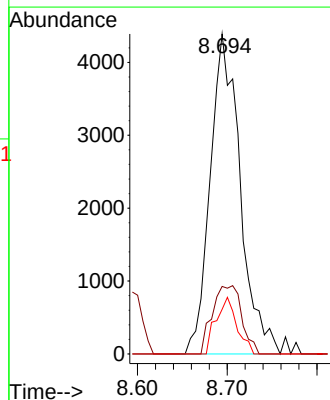
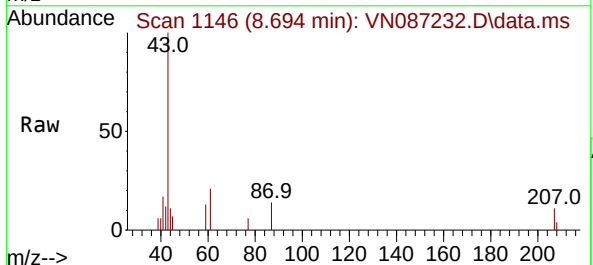
Instrument :
MSVOA_N
ClientSampleId :
MH-E/FRE

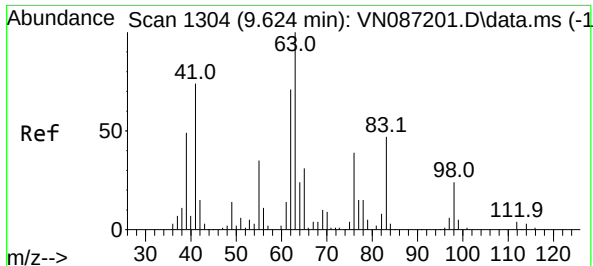
Tgt Ion:117 Resp: 20486
Ion Ratio Lower Upper
117 100
119 6.0 77.4 116.0#
121 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 1.545 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 43 Resp: 10169
Ion Ratio Lower Upper
43 100
61 20.9 21.0 31.6#
87 12.3 11.0 16.6





#45

1,2-Dichloropropane

Concen: 0.505 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.124 min

Lab File: VN087232.D

Acq: 27 Jun 2025 18:46

Instrument :

MSVOA_N

ClientSampleId :

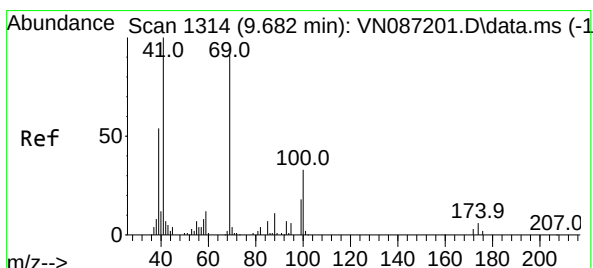
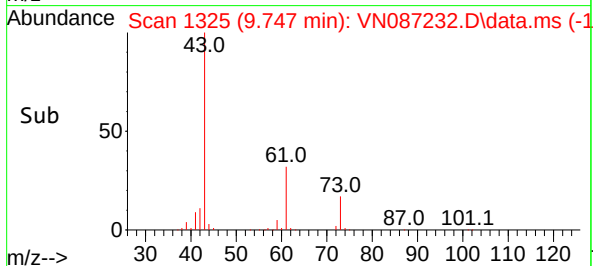
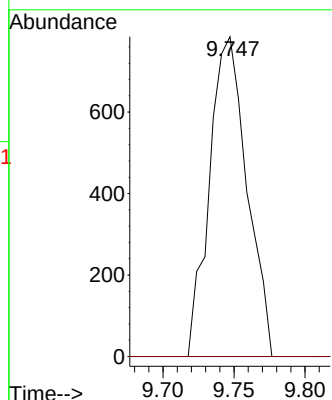
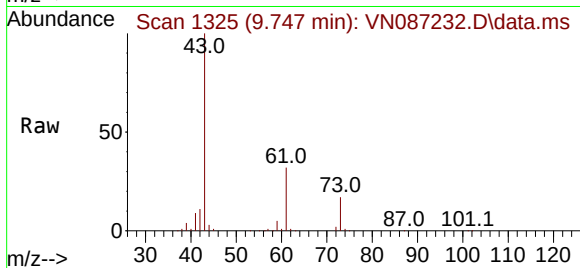
MH-E/FRE

Tgt Ion: 63 Resp: 1441

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 26.826 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN087232.D

Acq: 27 Jun 2025 18:46

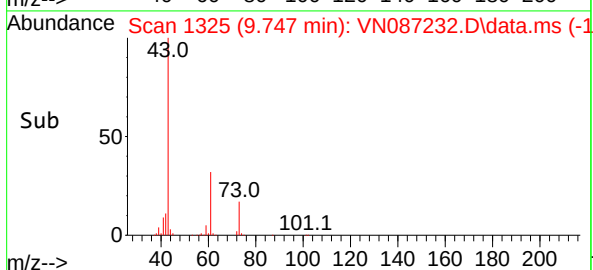
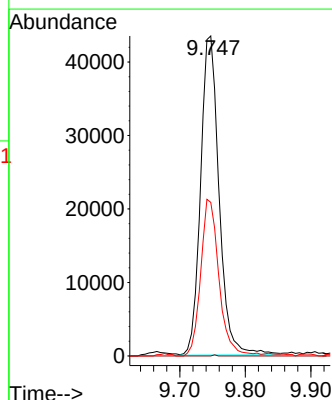
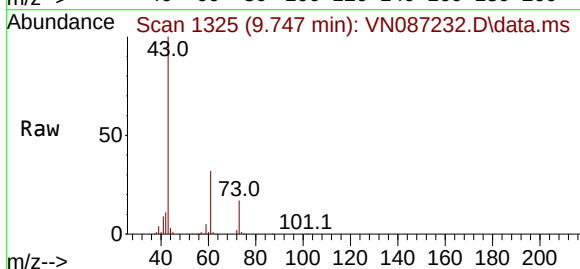
Tgt Ion: 41 Resp: 85374

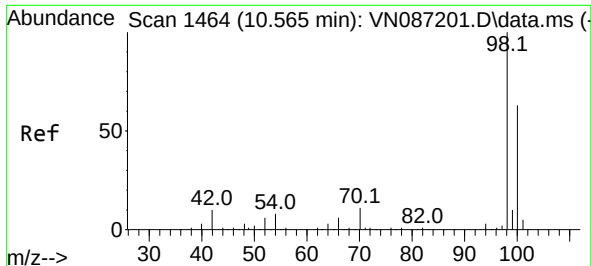
Ion Ratio Lower Upper

41 100

69 0.1 69.9 104.9#

39 48.4 43.8 65.6

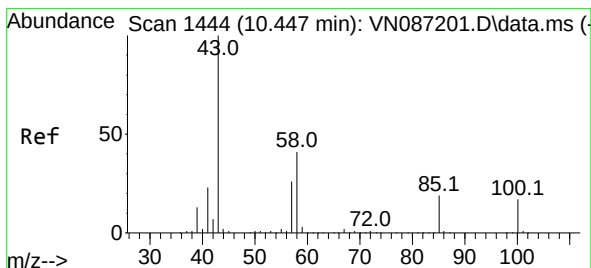
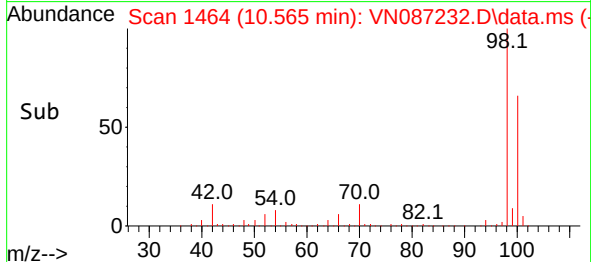
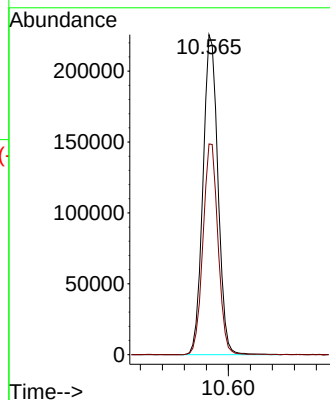
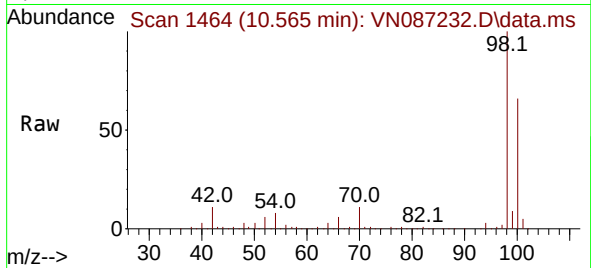




#50
Toluene-d8
Concen: 42.112 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

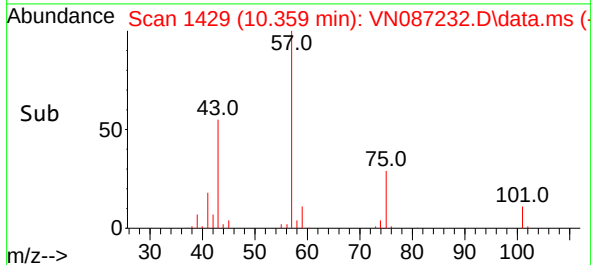
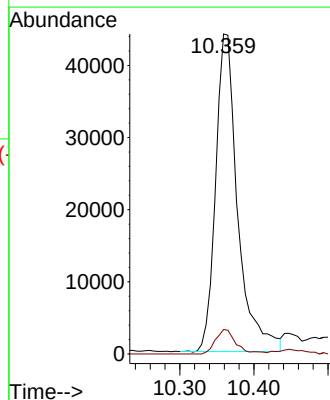
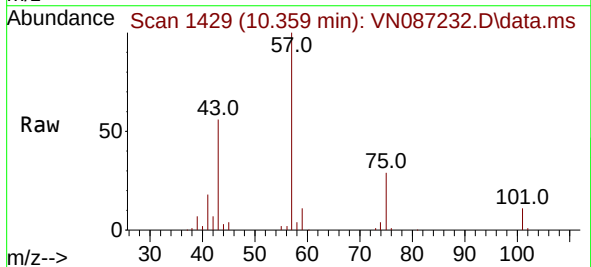
Instrument :
MSVOA_N
ClientSampleId :
MH-E/FRE

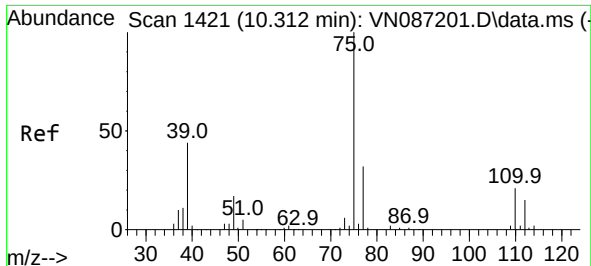
Tgt Ion: 98 Resp: 425753
Ion Ratio Lower Upper
98 100
100 66.0 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 16.742 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 43 Resp: 91124
Ion Ratio Lower Upper
43 100
58 7.2 32.6 48.8#

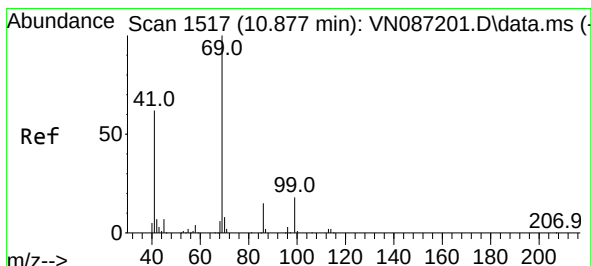
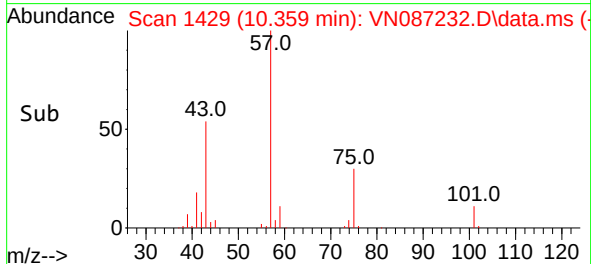
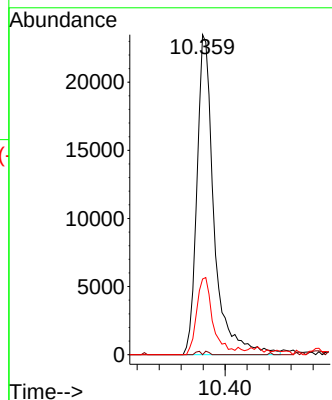
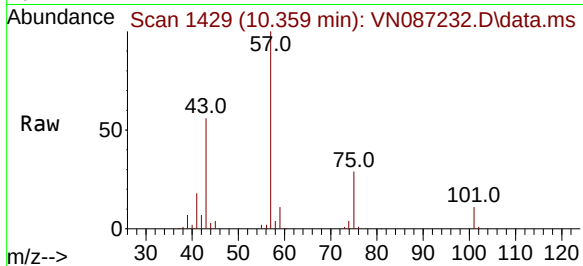




#54
 cis-1,3-Dichloropropene
 Concen: 11.028 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN087232.D
 Acq: 27 Jun 2025 18:46

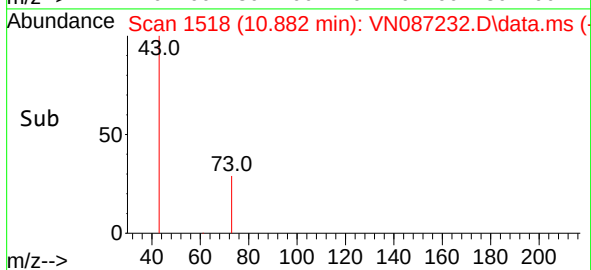
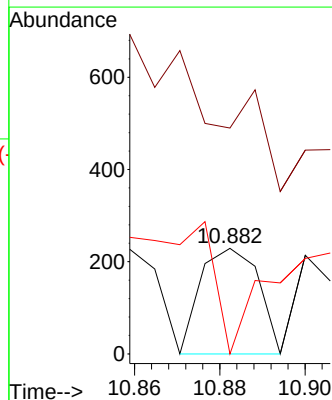
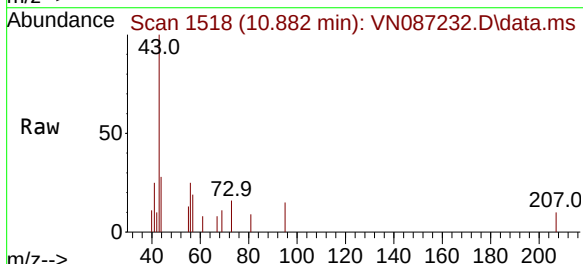
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-E/FRE

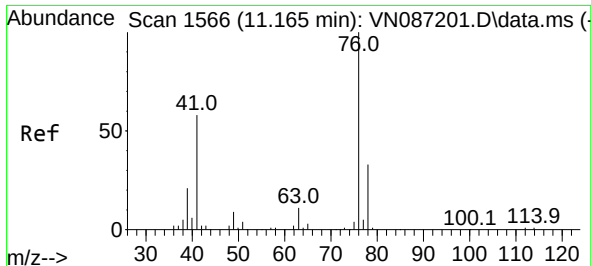
Tgt Ion: 75 Resp: 50781
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 23.7 34.9 52.3#



#56
 Ethyl methacrylate
 Concen: Below Cal
 RT: 10.882 min Scan# 1518
 Delta R.T. 0.005 min
 Lab File: VN087232.D
 Acq: 27 Jun 2025 18:46

Tgt Ion: 69 Resp: 217
 Ion Ratio Lower Upper
 69 100
 41 0.0 48.4 72.6#
 39 0.0 24.1 36.1#





#57

1,3-Dichloropropane

Concen: 0.683 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.047 min

Lab File: VN087232.D

Acq: 27 Jun 2025 18:46

Instrument :

MSVOA_N

ClientSampleId :

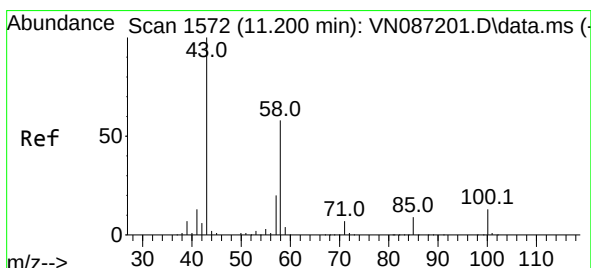
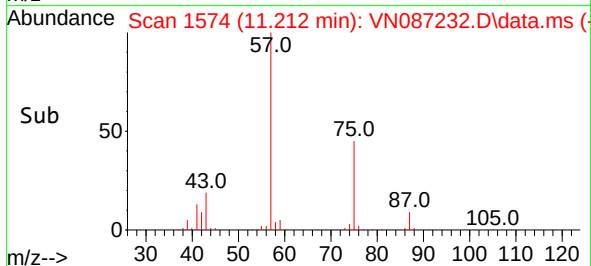
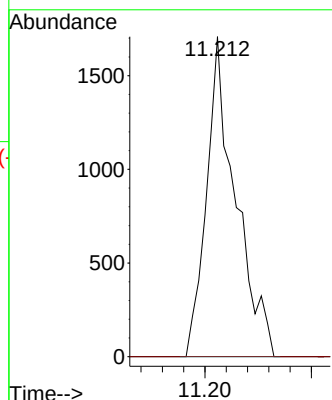
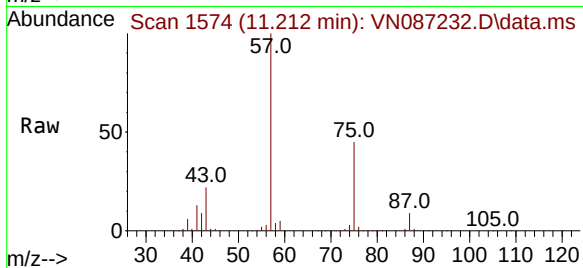
MH-E/FRE

Tgt Ion: 76 Resp: 3228

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 12.068 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087232.D

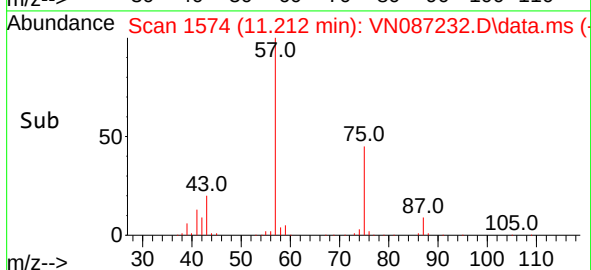
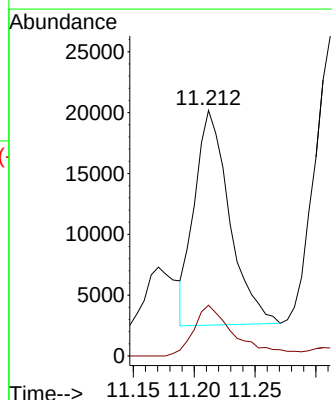
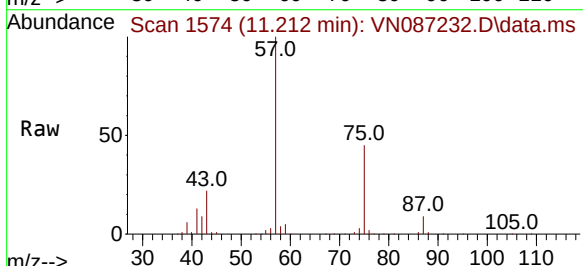
Acq: 27 Jun 2025 18:46

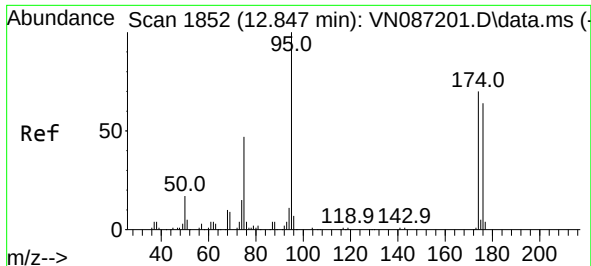
Tgt Ion: 43 Resp: 35339

Ion Ratio Lower Upper

43 100

58 27.7 31.1 93.3#

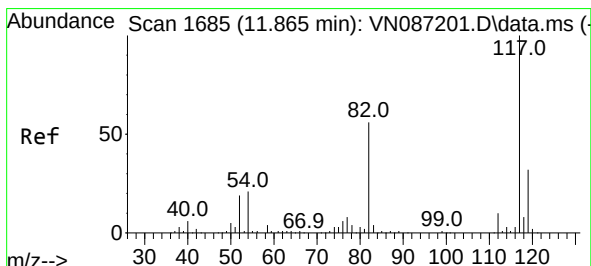
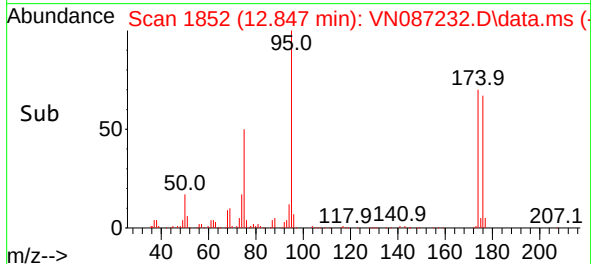
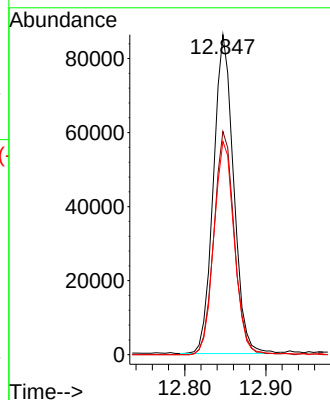
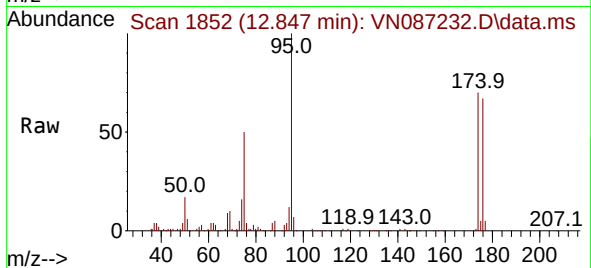




#62
4-Bromofluorobenzene
Concen: 42.473 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

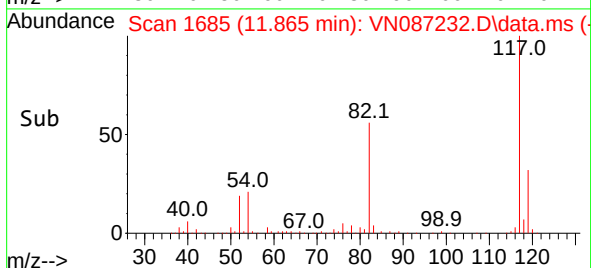
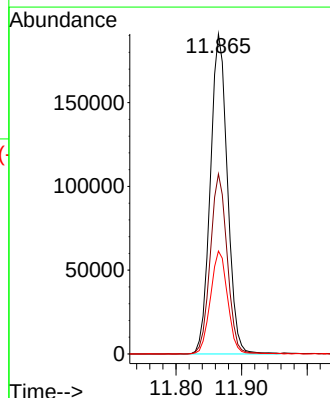
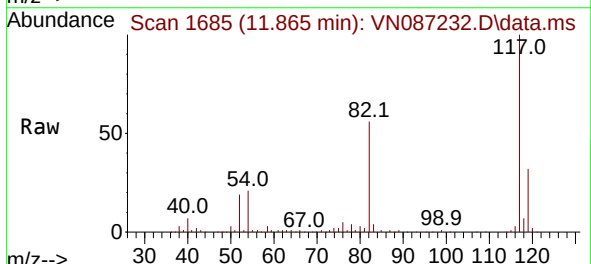
Instrument :
MSVOA_N
ClientSampleId :
MH-E/FRE

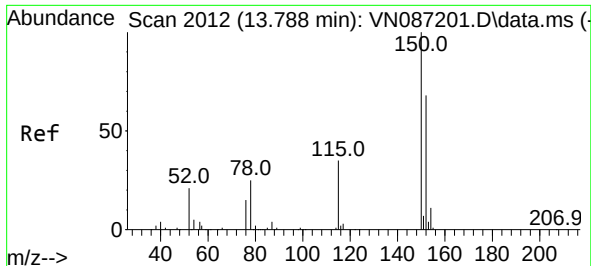
Tgt Ion: 95 Resp: 148998
Ion Ratio Lower Upper
95 100
174 70.5 0.0 142.2
176 68.0 0.0 134.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Tgt Ion: 117 Resp: 345353
Ion Ratio Lower Upper
117 100
82 56.2 45.0 67.4
119 32.2 25.9 38.9

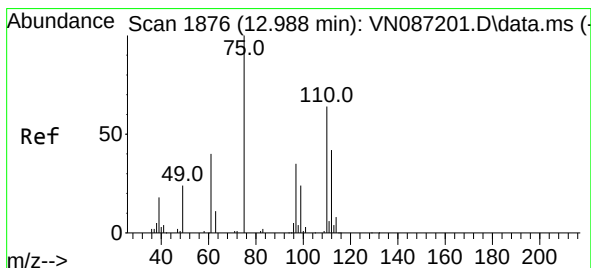
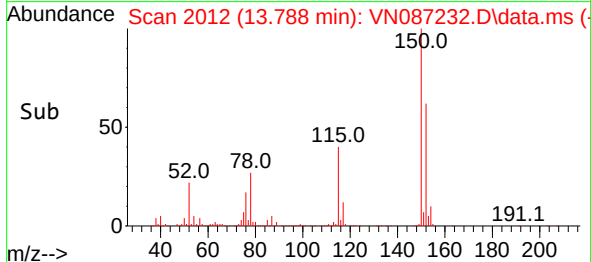
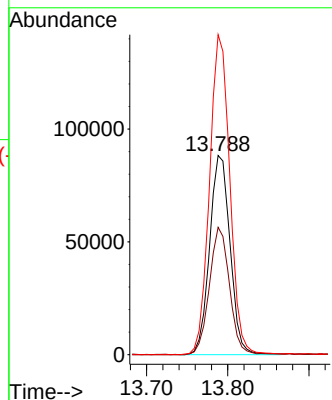
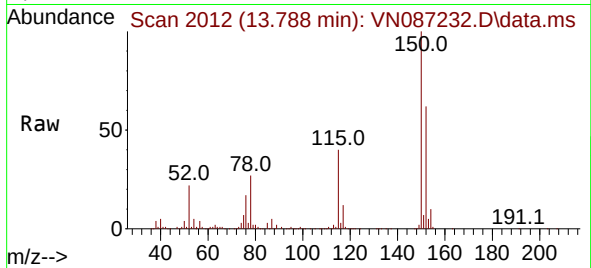




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN087232.D
 Acq: 27 Jun 2025 18:46

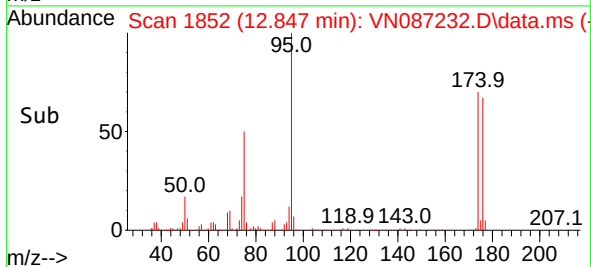
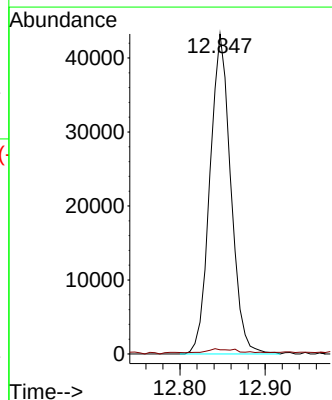
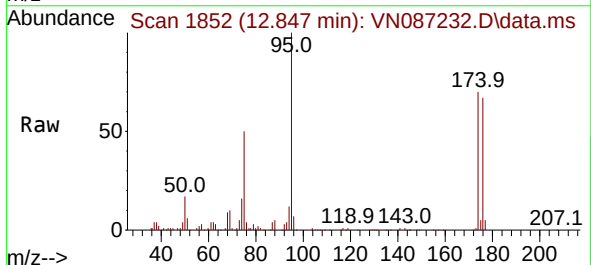
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-E/FRE

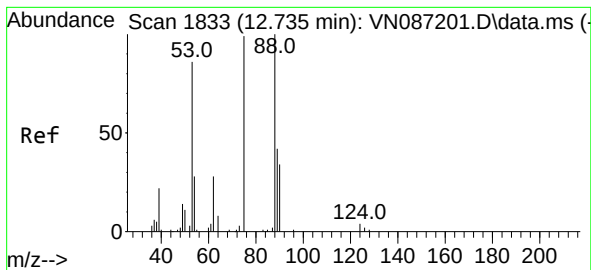
Tgt Ion:152 Resp: 154892
 Ion Ratio Lower Upper
 152 100
 115 63.0 30.6 91.8
 150 158.8 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 21.281 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN087232.D
 Acq: 27 Jun 2025 18:46

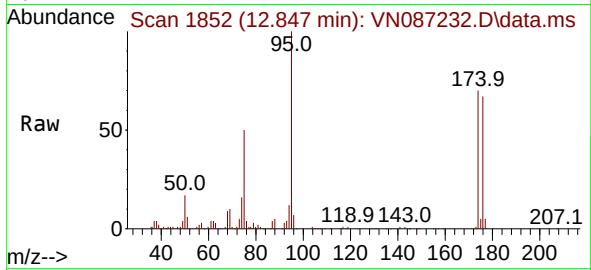
Tgt Ion: 75 Resp: 73543
 Ion Ratio Lower Upper
 75 100
 77 1.4 85.5 256.6#





#81
trans-1,4-Dichloro-2-butene
Concen: 47.763 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087232.D
Acq: 27 Jun 2025 18:46

Instrument :
MSVOA_N
ClientSampleId :
MH-E/FRE



Tgt Ion:	75	Resp:	73543
Ion	Ratio	Lower	Upper
75	100		
53	0.1	71.4	107.0#
89	0.4	37.9	56.9#

