

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070125\
 Data File : VN087254.D
 Acq On : 01 Jul 2025 11:57
 Operator : JC\MD
 Sample : Q2452-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Jul 02 02:00:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:15:00 2025
 Response via : Initial Calibration

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

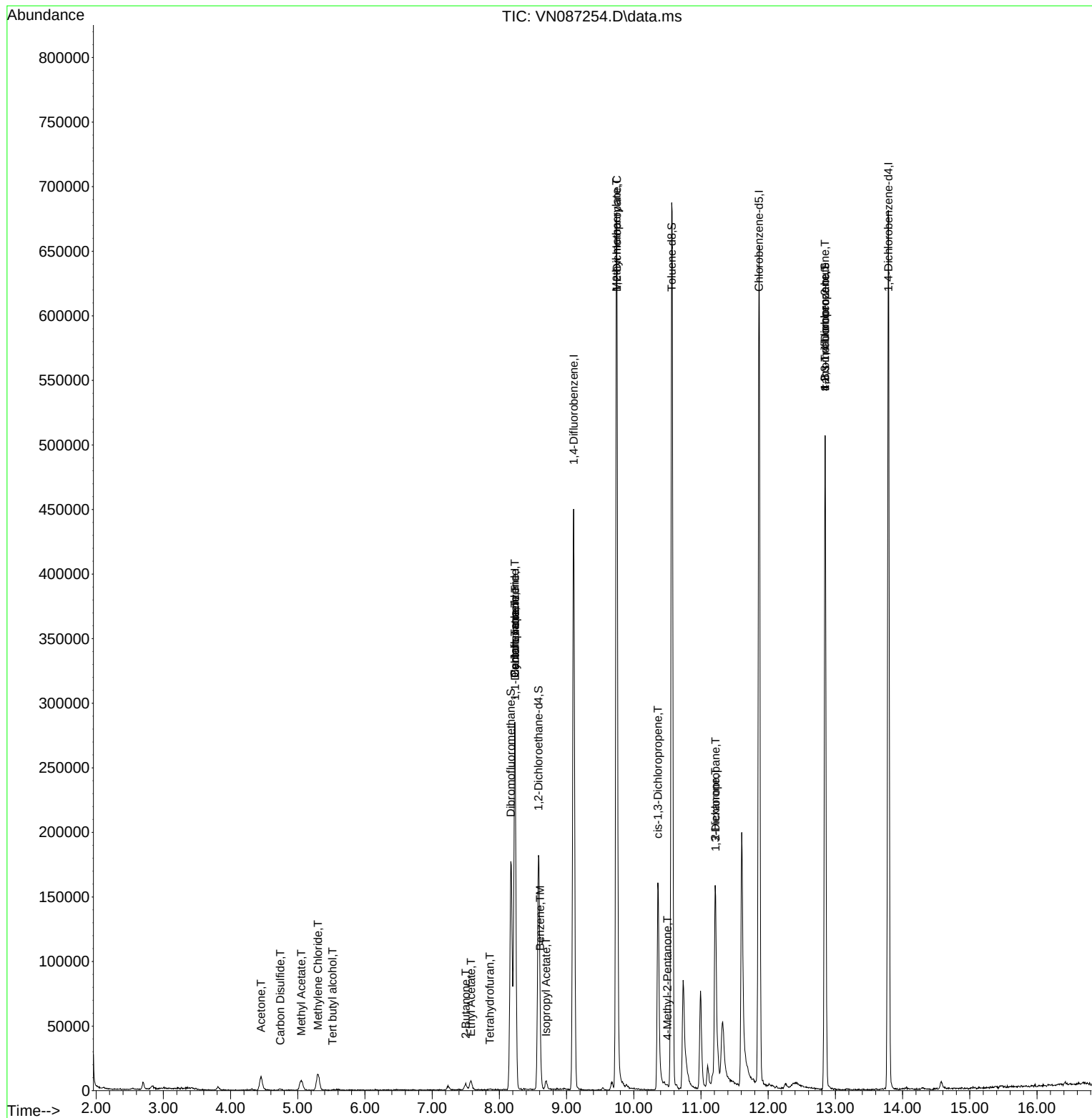
Internal Standards						
1) Pentafluorobenzene	8.229	168	218634	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	412667	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	392142	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	194168	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	150894	54.991	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.980%			
35) Dibromofluoromethane	8.171	113	132430	50.119	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.240%			
50) Toluene-d8	10.565	98	507207	49.247	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.500%			
62) 4-Bromofluorobenzene	12.847	95	178523	48.716	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.440%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	619	1.238	ug/l #	72
16) Acetone	4.453	43	20602	19.638	ug/l	100
17) Carbon Disulfide	4.741	76	1233	0.202	ug/l #	76
18) Methyl Acetate	5.053	43	16183	6.738	ug/l	98
20) Methylene Chloride	5.300	84	12416	5.343	ug/l #	81
25) 2-Butanone	7.500	43	6975	4.255	ug/l #	84
29) Tetrahydrofuran	7.859	42	531	0.503	ug/l #	25
31) Cyclohexane	8.229	56	4266	1.142	ug/l #	9
36) 1,1-Dichloropropene	8.235	75	16165	4.499	ug/l #	48
37) Ethyl Acetate	7.577	43	11476	2.971	ug/l	98
38) Carbon Tetrachloride	8.229	117	21553	5.293	ug/l #	16
40) Benzene	8.606	78	7922	0.712	ug/l	97
43) Isopropyl Acetate	8.694	43	7609	1.270	ug/l #	87
45) 1,2-Dichloropropane	9.747	63	795	0.328	ug/l #	45
48) Methyl methacrylate	9.741	41	65892	26.099	ug/l #	34
51) 4-Methyl-2-Pentanone	10.500	43	2618	0.714	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	38337	8.908	ug/l #	62
57) 1,3-Dichloropropane	11.217	76	2434	0.541	ug/l #	41
59) 2-Hexanone	11.212	43	26852	10.228	ug/l #	56
76) 1,2,3-Trichloropropane	12.847	75	88612	23.993	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	88612	56.357	ug/l #	14

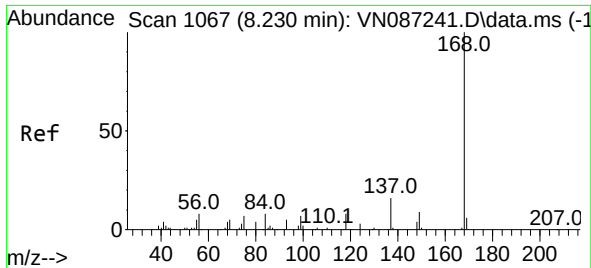
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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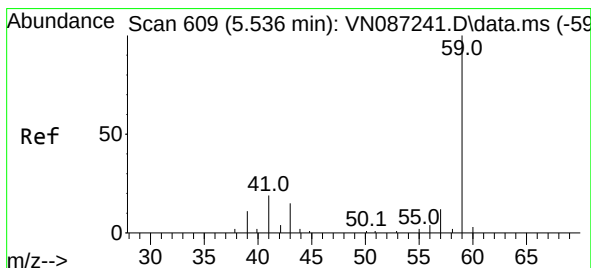
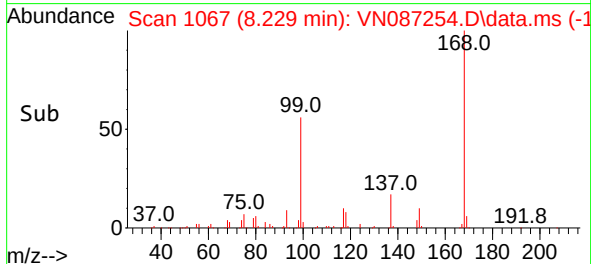
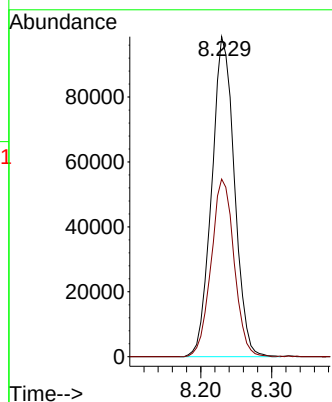
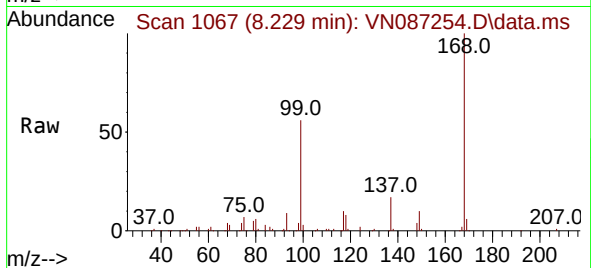




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

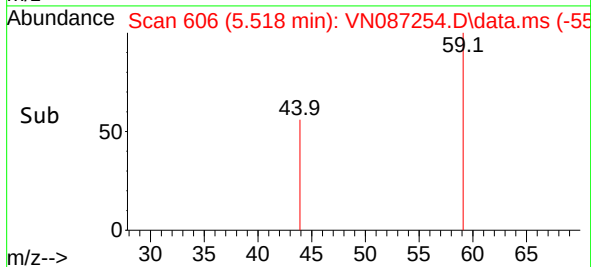
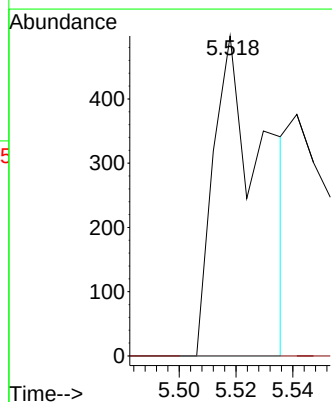
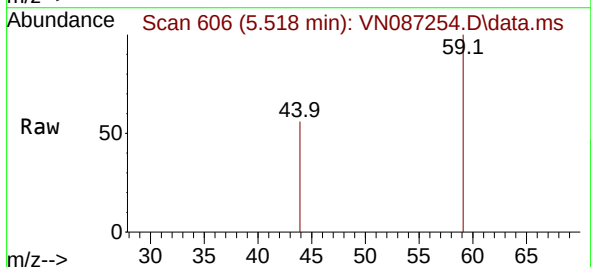
Instrument :
MSVOA_N
ClientSampleId :
TP-5

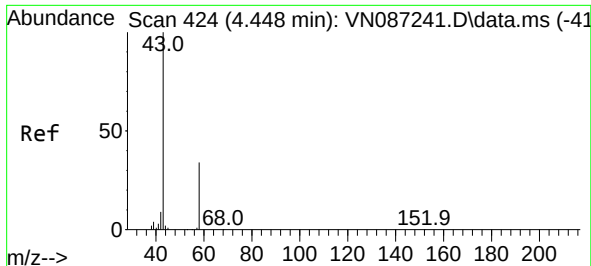
Tgt Ion:168 Resp: 218634
Ion Ratio Lower Upper
168 100
99 55.5 42.6 64.0



#11
Tert butyl alcohol
Concen: 1.238 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.018 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 59 Resp: 619
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#16

Acetone

Concen: 19.638 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN087254.D

Acq: 01 Jul 2025 11:57

Instrument :

MSVOA_N

ClientSampleId :

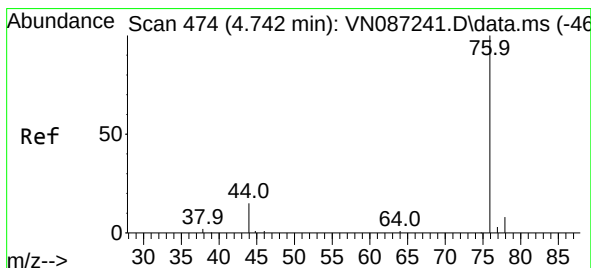
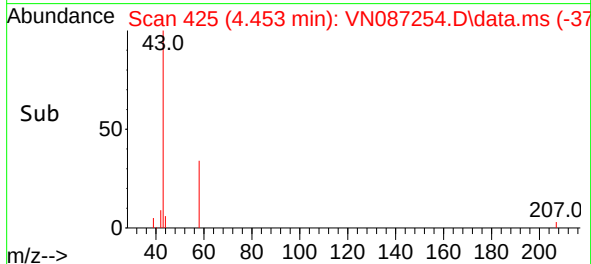
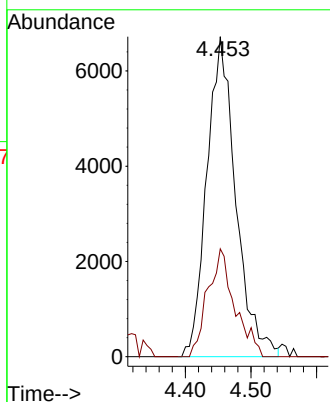
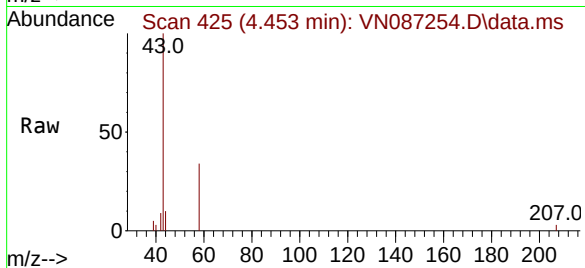
TP-5

Tgt Ion: 43 Resp: 20602

Ion Ratio Lower Upper

43 100

58 33.7 27.1 40.7



#17

Carbon Disulfide

Concen: 0.202 ug/l

RT: 4.741 min Scan# 474

Delta R.T. -0.000 min

Lab File: VN087254.D

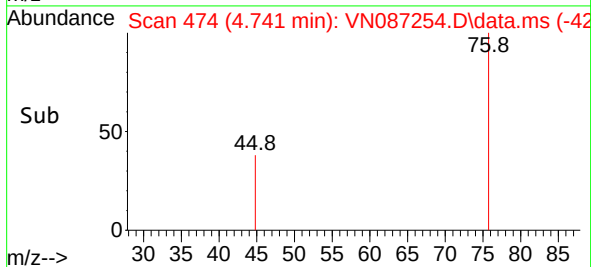
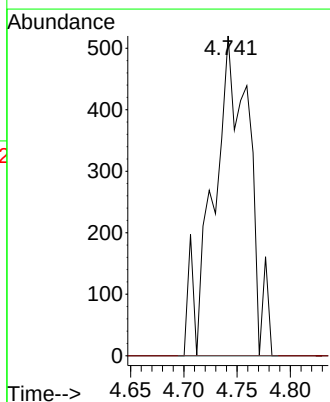
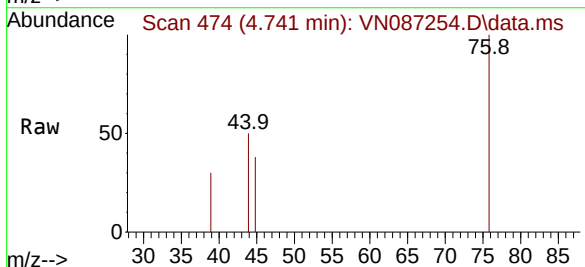
Acq: 01 Jul 2025 11:57

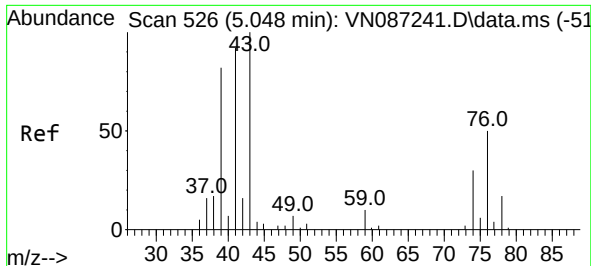
Tgt Ion: 76 Resp: 1233

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#

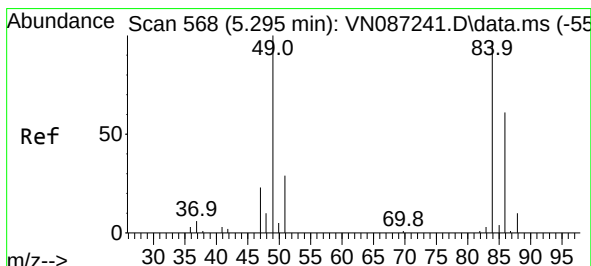
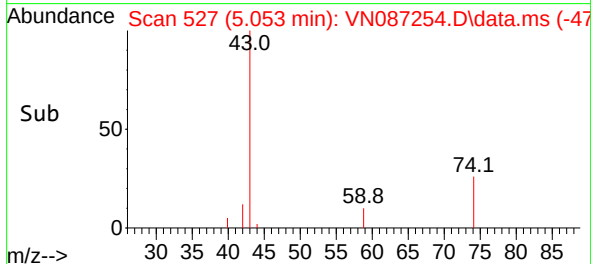
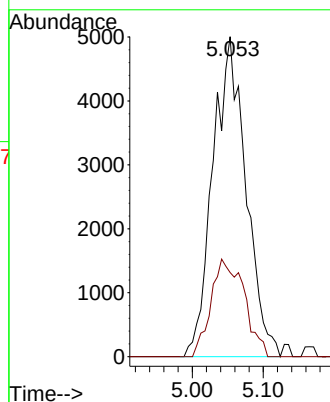
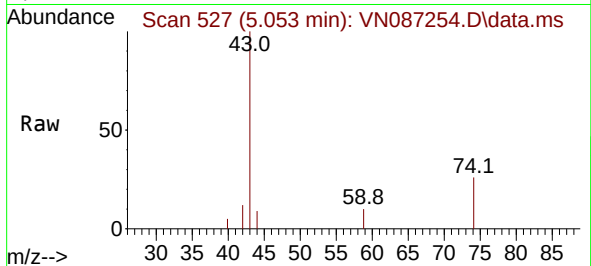




#18
Methyl Acetate
Concen: 6.738 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

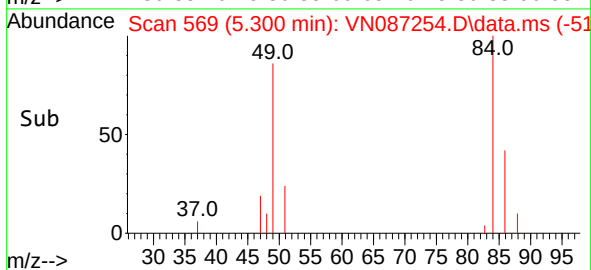
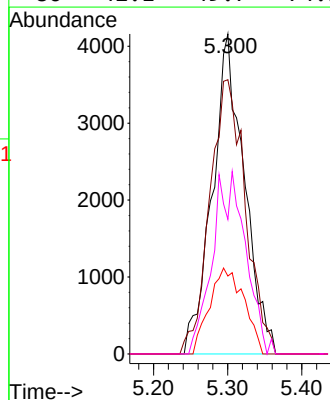
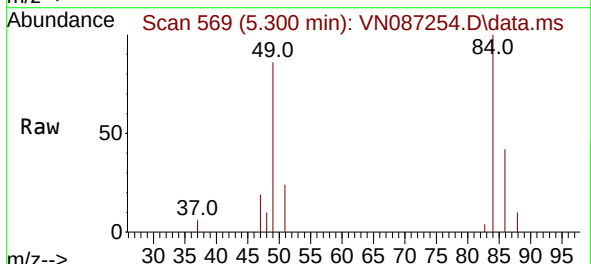
Instrument :
MSVOA_N
ClientSampleId :
TP-5

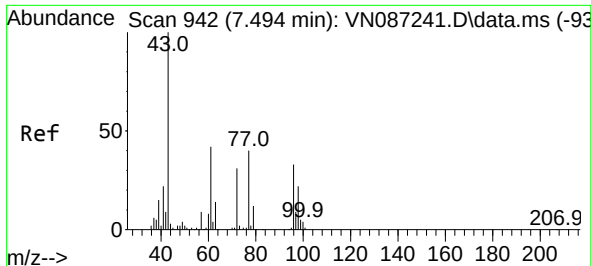
Tgt Ion: 43 Resp: 16183
Ion Ratio Lower Upper
43 100
74 30.8 23.8 35.6



#20
Methylene Chloride
Concen: 5.343 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 84 Resp: 12416
Ion Ratio Lower Upper
84 100
49 85.7 82.1 123.1
51 24.4 23.5 35.3
86 42.1 49.7 74.5#

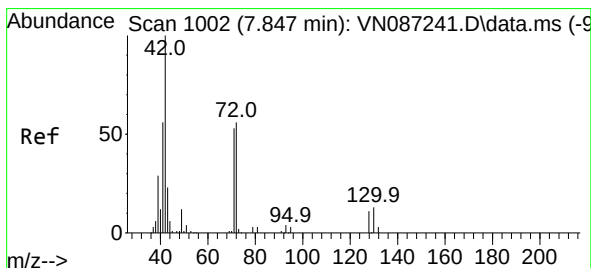
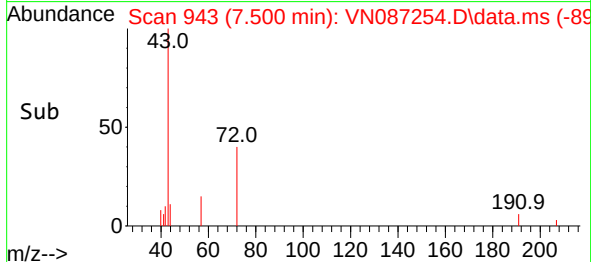
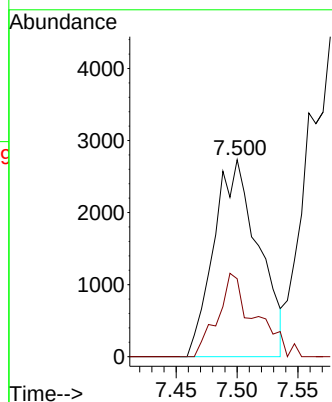
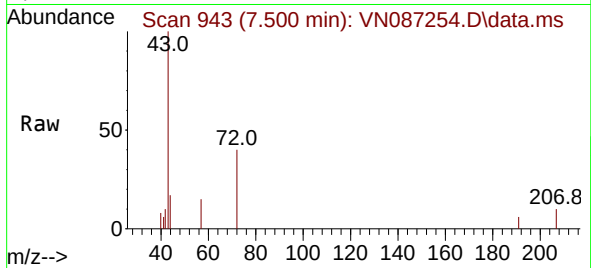




#25
2-Butanone
Concen: 4.255 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

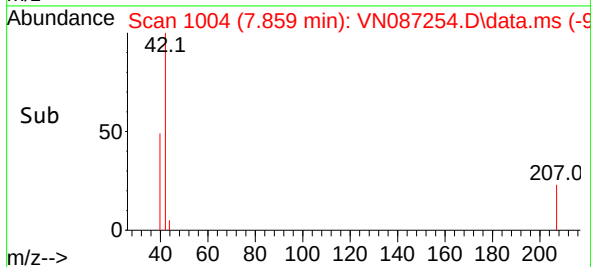
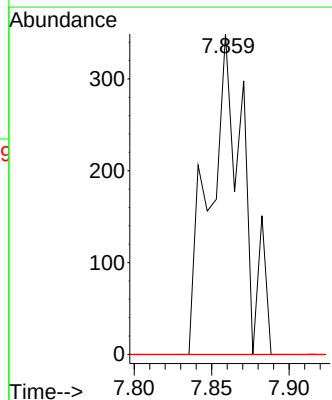
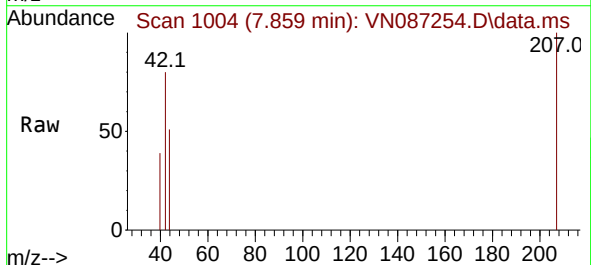
Instrument :
MSVOA_N
ClientSampleId :
TP-5

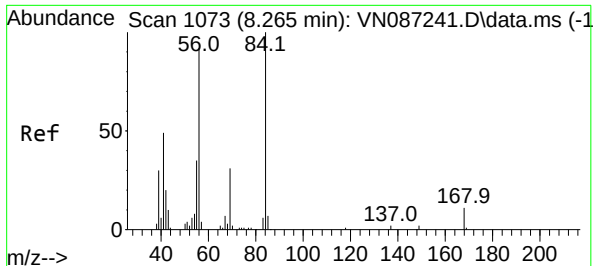
Tgt Ion: 43 Resp: 6975
Ion Ratio Lower Upper
43 100
72 39.6 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.503 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 42 Resp: 531
Ion Ratio Lower Upper
42 100
72 0.0 44.2 66.4#
71 0.0 41.1 61.7#

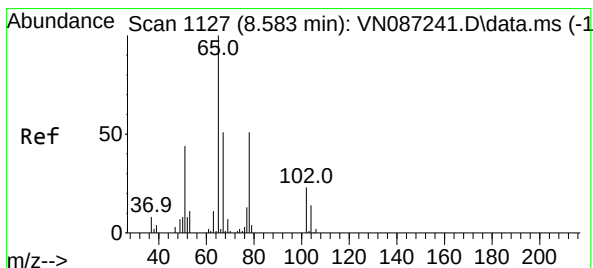
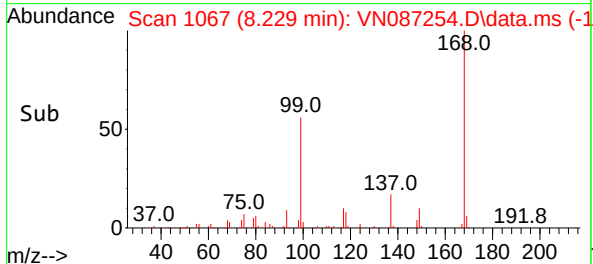
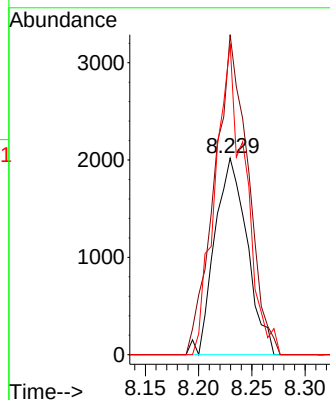
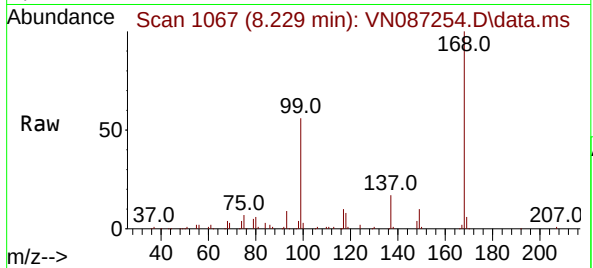




#31
Cyclohexane
Concen: 1.142 ug/l
RT: 8.229 min Scan# 1073
Delta R.T. -0.036 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

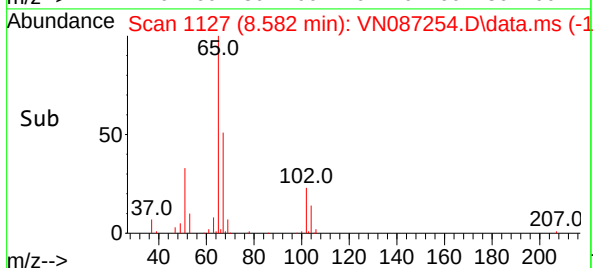
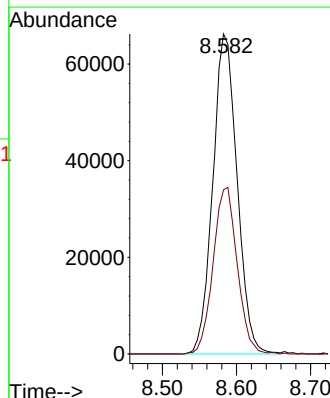
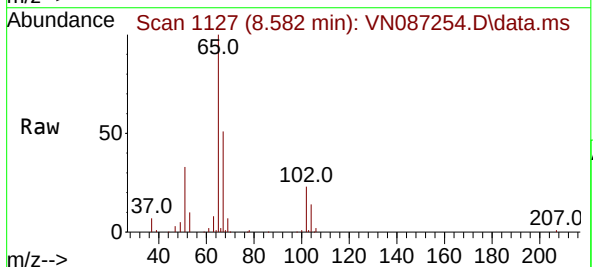
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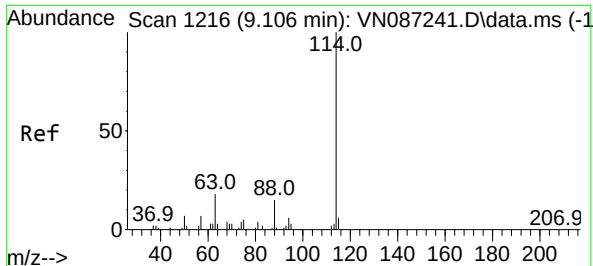
Tgt Ion: 56 Resp: 4266
Ion Ratio Lower Upper
56 100
69 162.9 27.0 40.6#
84 158.5 86.2 129.4#



#33
1,2-Dichloroethane-d4
Concen: 54.991 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 65 Resp: 150894
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.6

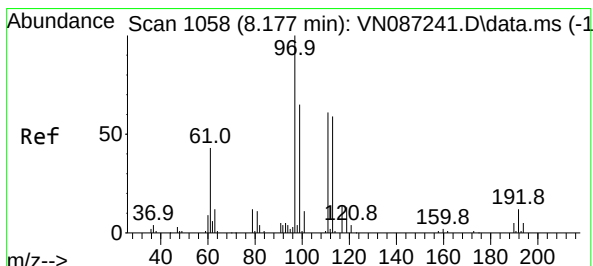
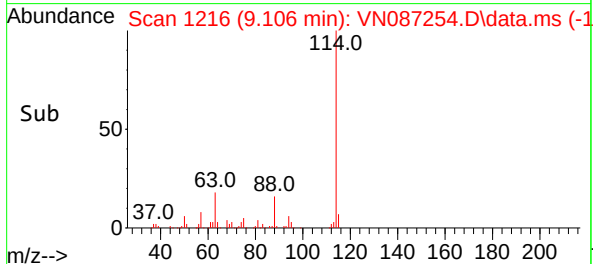
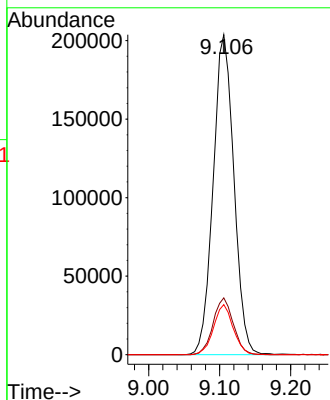
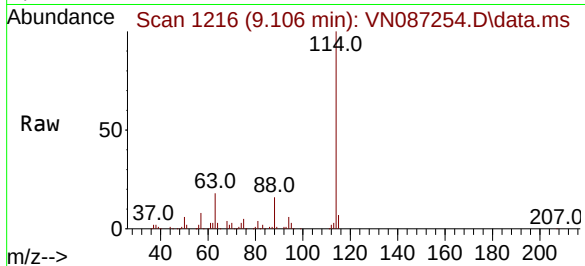




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

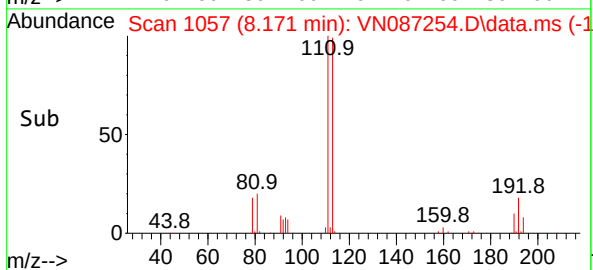
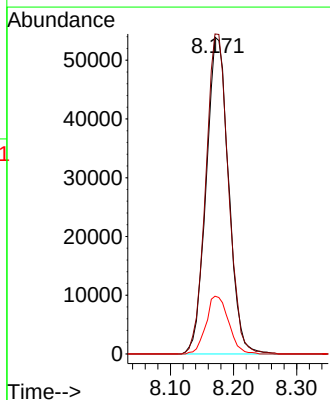
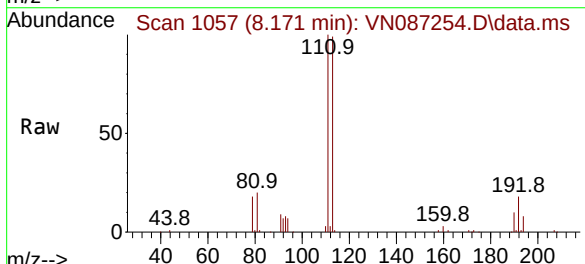
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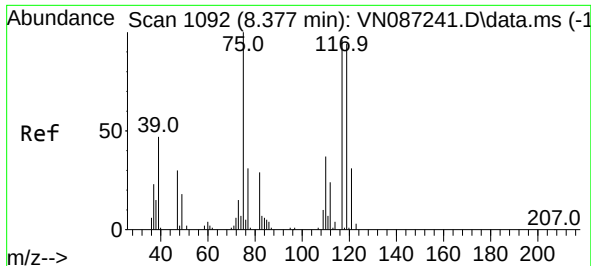
Tgt Ion:	114	Resp:	412667
Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	36.6
88	15.7	0.0	29.6



#35
Dibromofluoromethane
Concen: 50.119 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion:	113	Resp:	132430
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.2
192	18.4	15.1	22.7





#36

1,1-Dichloropropene

Concen: 4.499 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN087254.D

Acq: 01 Jul 2025 11:57

Instrument :

MSVOA_N

ClientSampleId :

TP-5

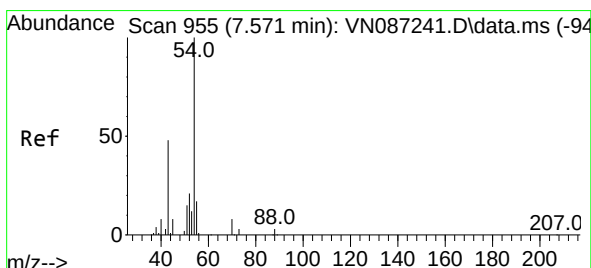
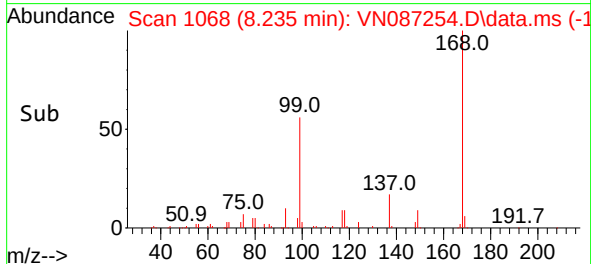
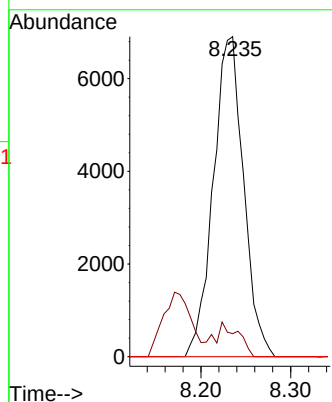
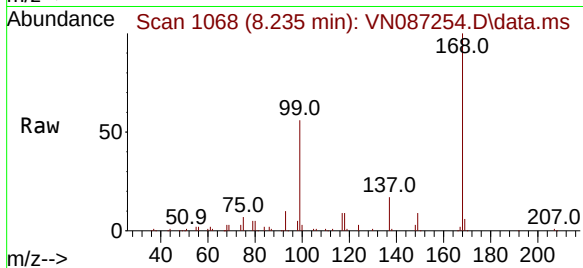
Tgt Ion: 75 Resp: 16165

Ion Ratio Lower Upper

75 100

110 8.1 18.7 56.1#

77 0.0 24.5 36.7#



#37

Ethyl Acetate

Concen: 2.971 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN087254.D

Acq: 01 Jul 2025 11:57

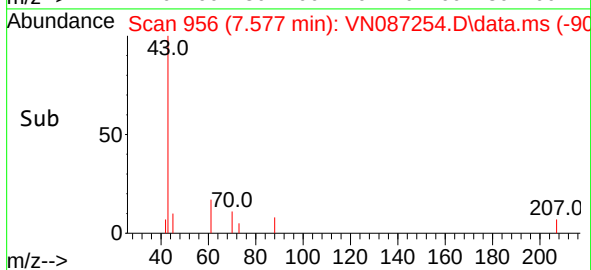
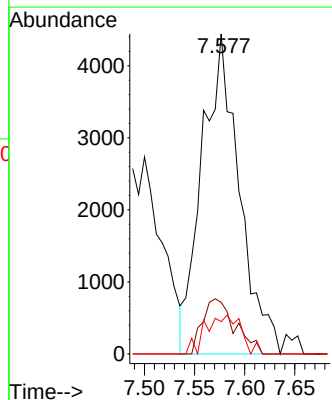
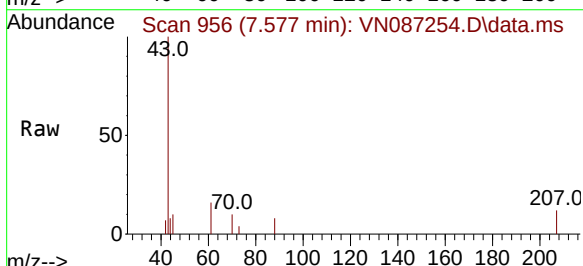
Tgt Ion: 43 Resp: 11476

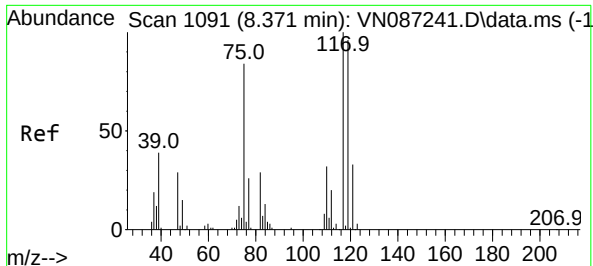
Ion Ratio Lower Upper

43 100

61 15.1 11.3 16.9

70 11.6 9.9 14.9

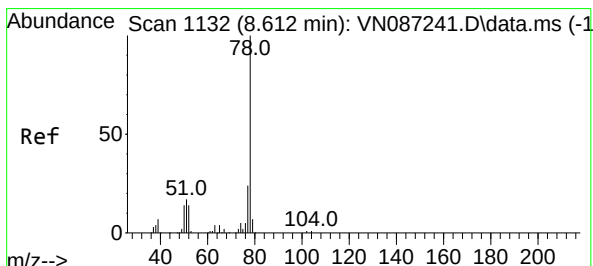
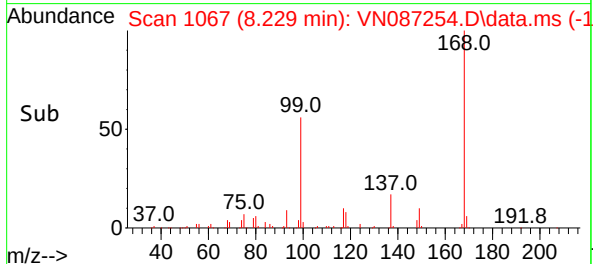
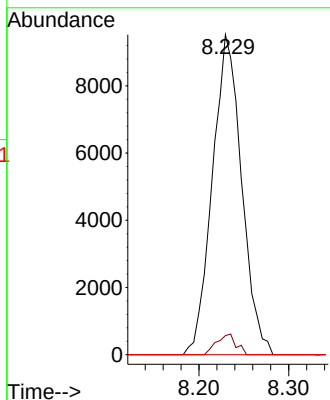
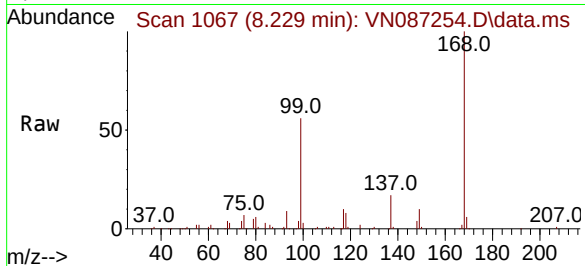




#38
Carbon Tetrachloride
Concen: 5.293 ug/l
RT: 8.229 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

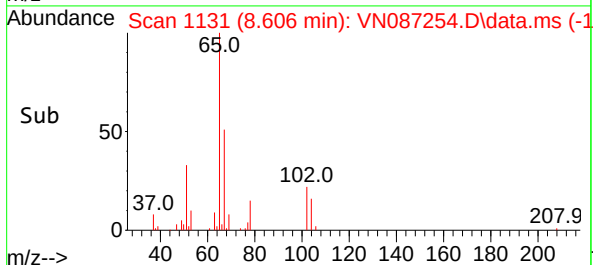
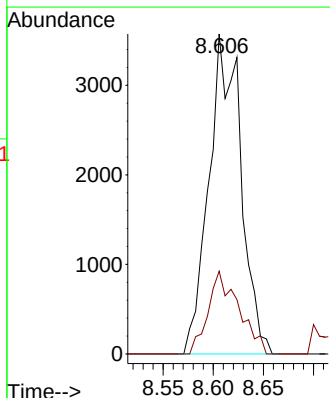
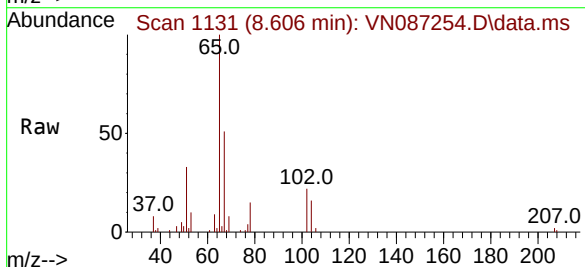
Instrument :
MSVOA_N
ClientSampleId :
TP-5

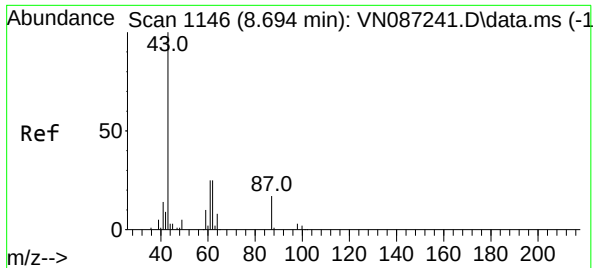
Tgt Ion:117 Resp: 21553
Ion Ratio Lower Upper
117 100
119 5.9 77.2 115.8#
121 0.0 26.6 39.8#



#40
Benzene
Concen: 0.712 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 78 Resp: 7922
Ion Ratio Lower Upper
78 100
77 25.8 19.5 29.3

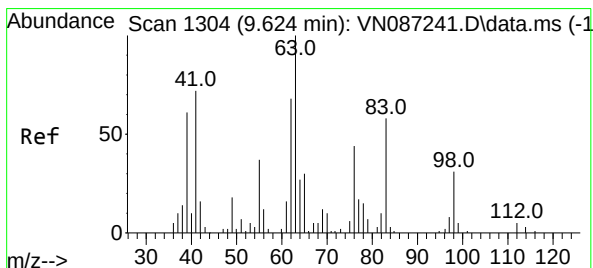
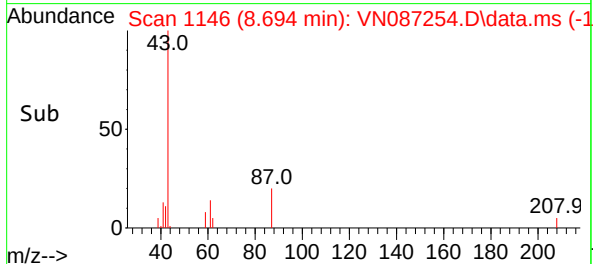
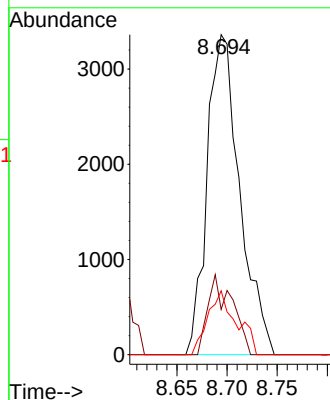
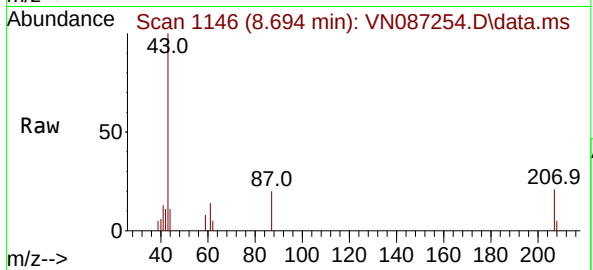




#43
Isopropyl Acetate
Concen: 1.270 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

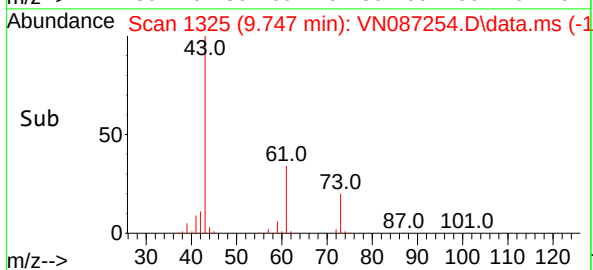
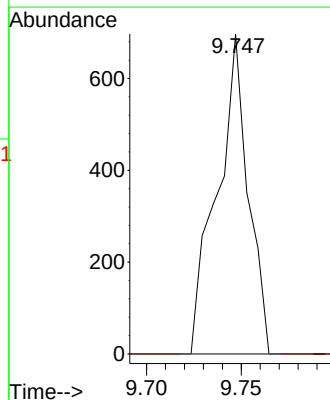
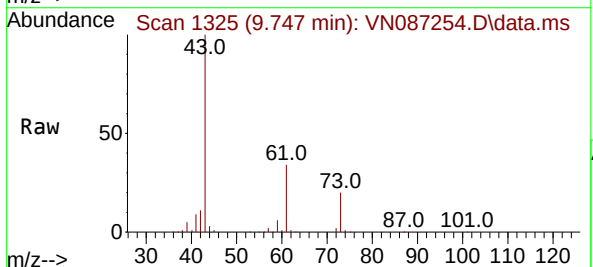
Instrument :
MSVOA_N
ClientSampleId :
TP-5

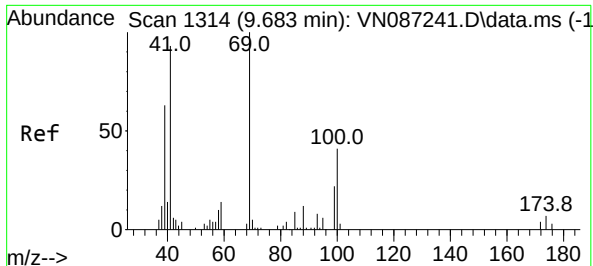
Tgt Ion: 43 Resp: 7609
Ion Ratio Lower Upper
43 100
61 18.7 22.4 33.6#
87 17.5 12.8 19.2



#45
1,2-Dichloropropane
Concen: 0.328 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 63 Resp: 795
Ion Ratio Lower Upper
63 100
65 0.0 23.8 35.8#





#48

Methyl methacrylate

Concen: 26.099 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN087254.D

Acq: 01 Jul 2025 11:57

Instrument :

MSVOA_N

ClientSampleId :

TP-5

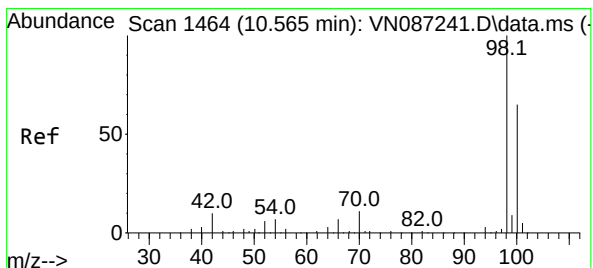
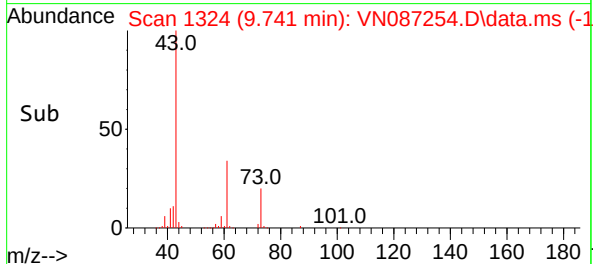
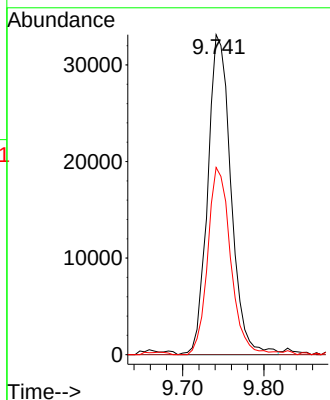
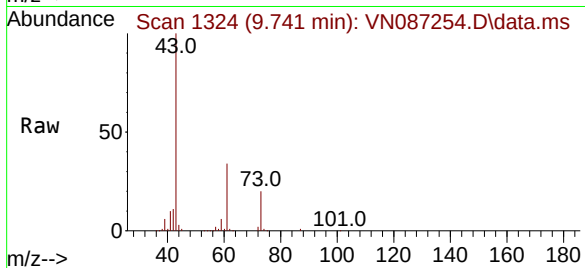
Tgt Ion: 41 Resp: 65892

Ion Ratio Lower Upper

41 100

69 0.0 81.4 122.2#

39 57.7 56.9 85.3



#50

Toluene-d8

Concen: 49.247 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN087254.D

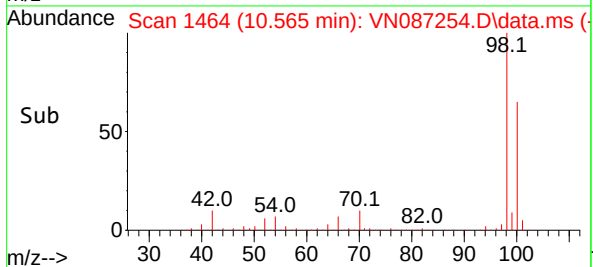
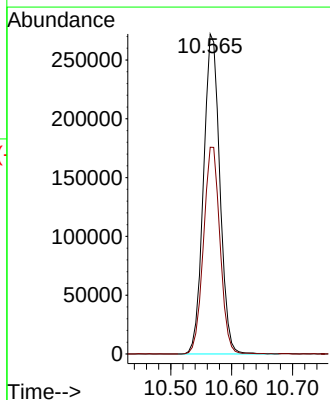
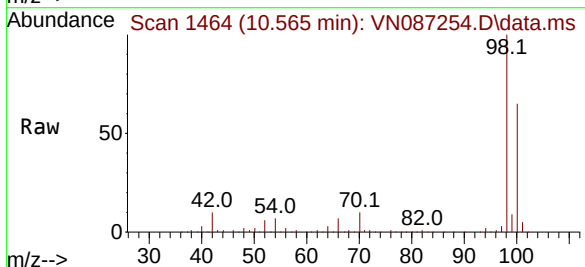
Acq: 01 Jul 2025 11:57

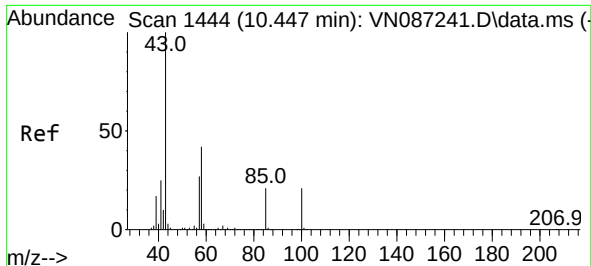
Tgt Ion: 98 Resp: 507207

Ion Ratio Lower Upper

98 100

100 65.3 52.1 78.1

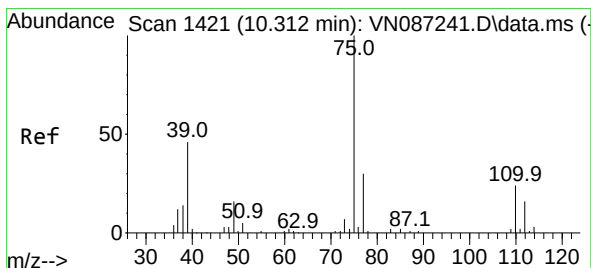
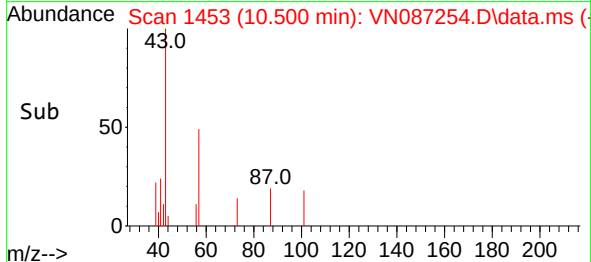
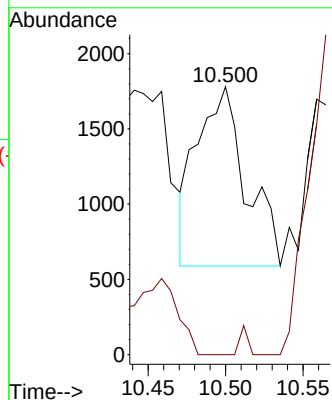
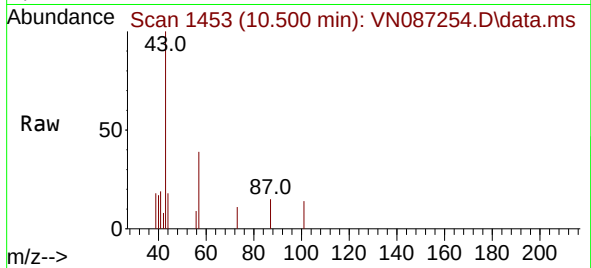




#51
4-Methyl-2-Pentanone
Concen: 0.714 ug/l
RT: 10.500 min Scan# 1444
Delta R.T. 0.053 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

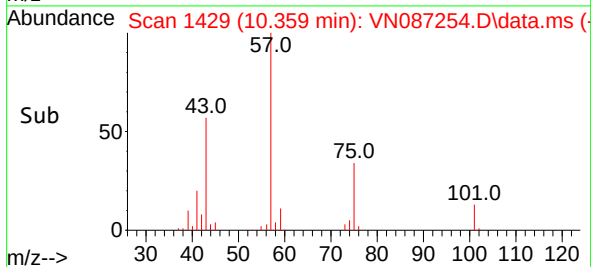
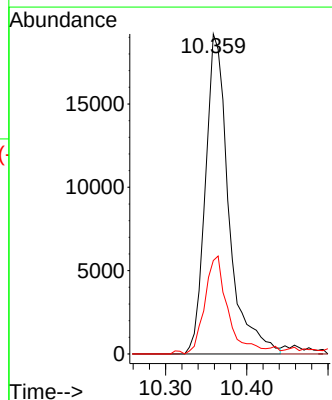
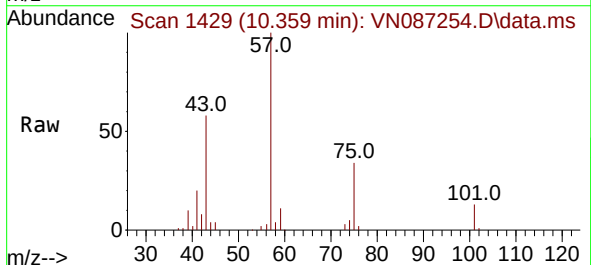
Instrument :
MSVOA_N
ClientSampleId :
TP-5

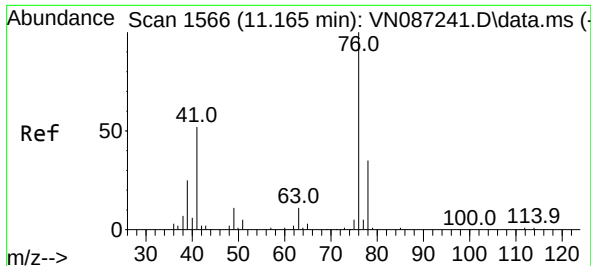
Tgt Ion: 43 Resp: 2618
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.2#



#54
cis-1,3-Dichloropropene
Concen: 8.908 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 75 Resp: 38337
Ion Ratio Lower Upper
75 100
77 0.0 24.1 36.1#
39 28.4 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 0.541 ug/l

RT: 11.217 min Scan# 1575

Delta R.T. 0.053 min

Lab File: VN087254.D

Acq: 01 Jul 2025 11:57

Instrument :

MSVOA_N

ClientSampleId :

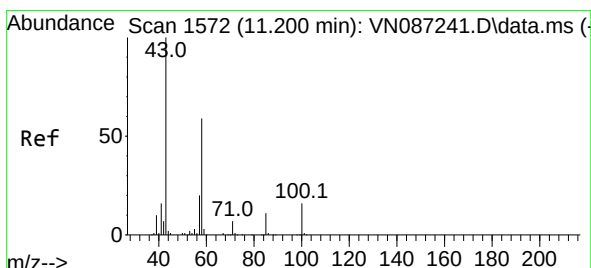
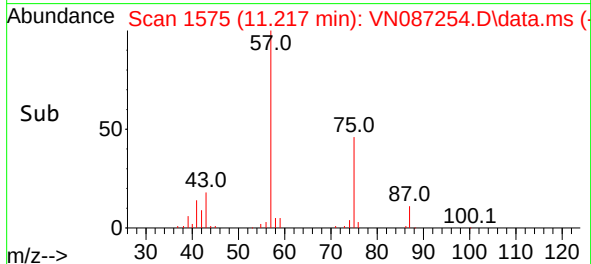
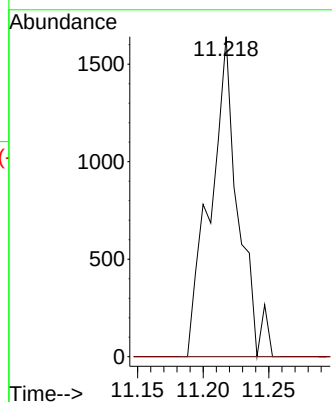
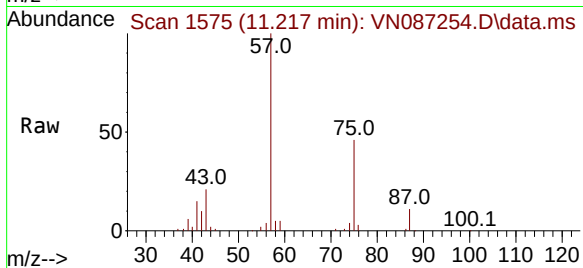
TP-5

Tgt Ion: 76 Resp: 2434

Ion Ratio Lower Upper

76 100

78 0.0 27.1 40.7#



#59

2-Hexanone

Concen: 10.228 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087254.D

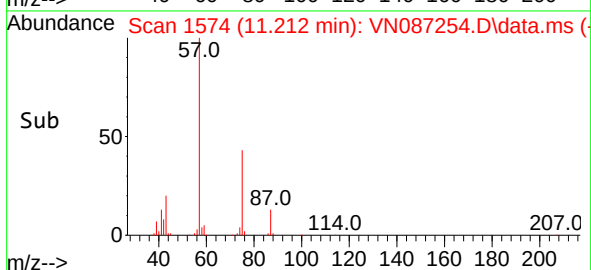
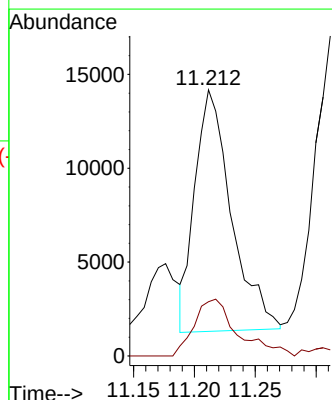
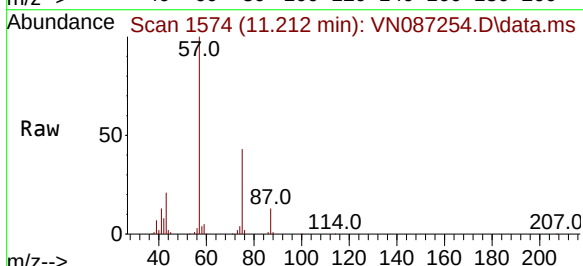
Acq: 01 Jul 2025 11:57

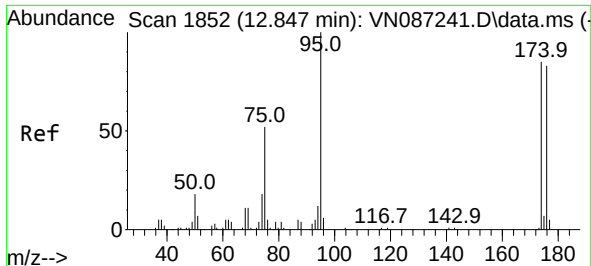
Tgt Ion: 43 Resp: 26852

Ion Ratio Lower Upper

43 100

58 27.9 31.1 93.3#

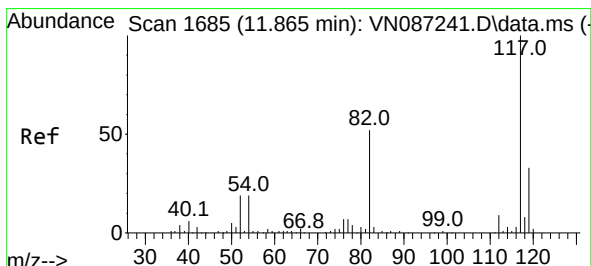
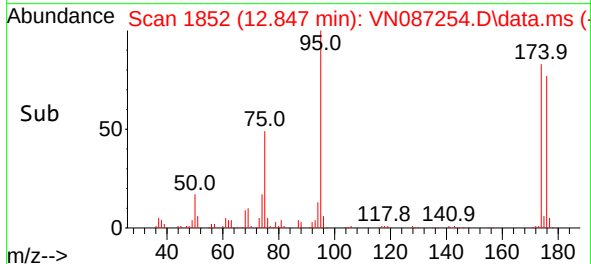
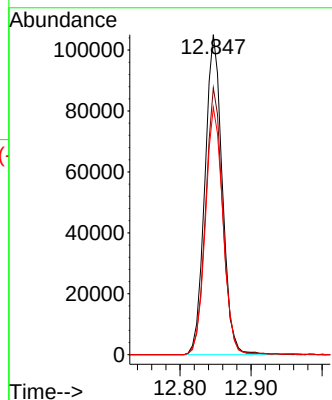
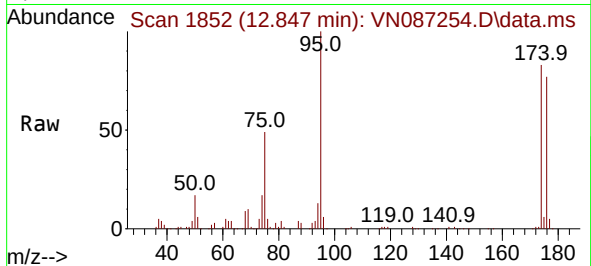




#62
4-Bromofluorobenzene
Concen: 48.716 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

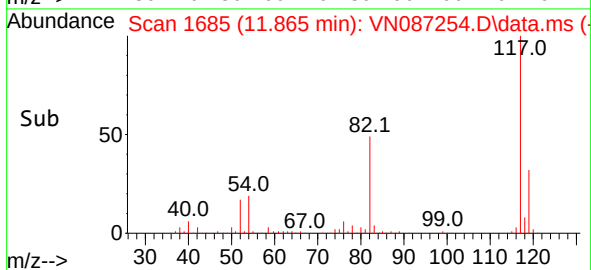
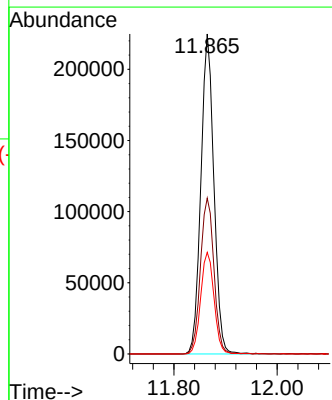
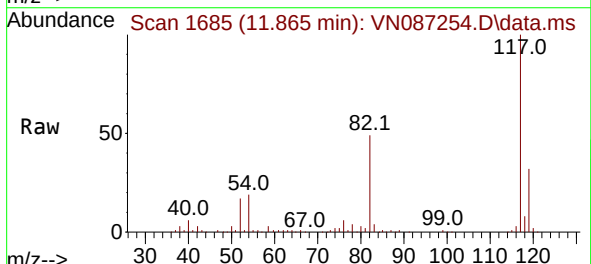
Instrument :
MSVOA_N
ClientSampleId :
TP-5

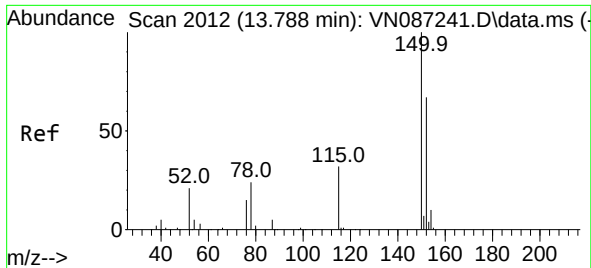
Tgt Ion: 95 Resp: 178523
Ion Ratio Lower Upper
95 100
174 82.7 0.0 169.6
176 77.9 0.0 161.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087254.D
Acq: 01 Jul 2025 11:57

Tgt Ion: 117 Resp: 392142
Ion Ratio Lower Upper
117 100
82 48.7 41.9 62.9
119 31.7 26.2 39.4

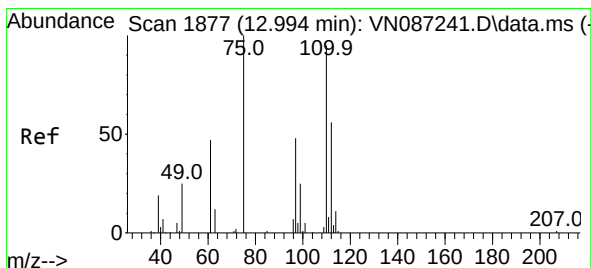
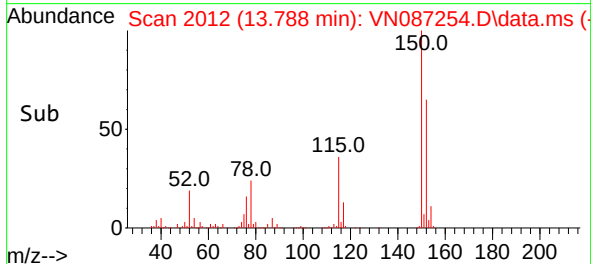
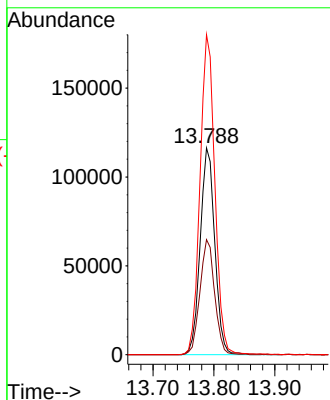
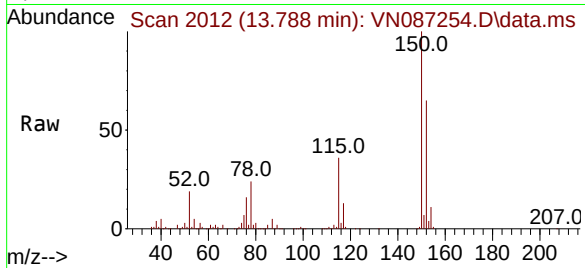




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN087254.D
 Acq: 01 Jul 2025 11:57

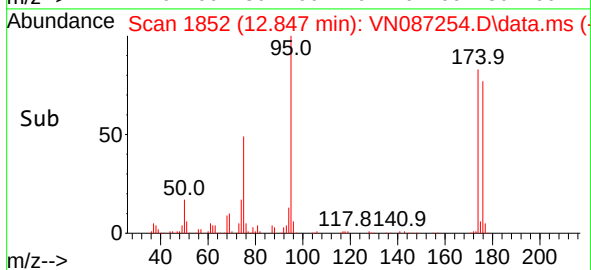
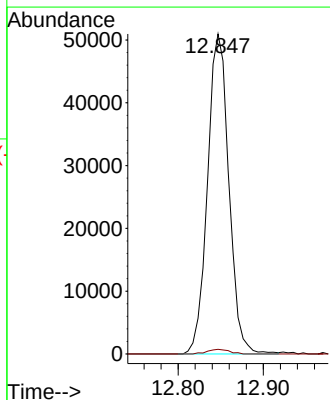
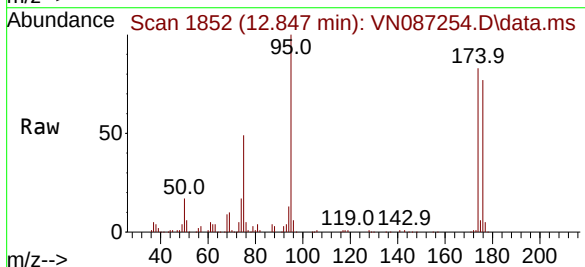
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

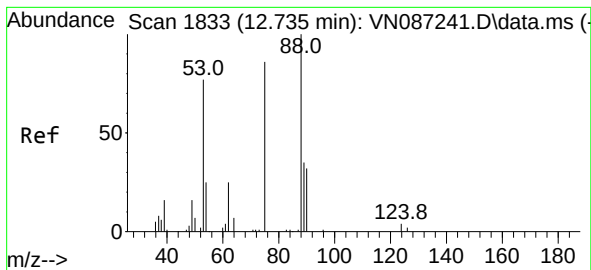
Tgt Ion:152 Resp: 194168
 Ion Ratio Lower Upper
 152 100
 115 56.0 28.3 84.9
 150 156.4 0.0 344.6



#76
 1,2,3-Trichloropropane
 Concen: 23.993 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087254.D
 Acq: 01 Jul 2025 11:57

Tgt Ion: 75 Resp: 88612
 Ion Ratio Lower Upper
 75 100
 77 1.5 82.0 245.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.357 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087254.D
 Acq: 01 Jul 2025 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Tgt Ion: 75 Resp: 88612
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 105.8#
 89 0.1 36.1 54.1#

