

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092425\
 Data File : VN087945.D
 Acq On : 24 Sep 2025 13:47
 Operator : JC\MD
 Sample : Q3167-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RT4784

Quant Time: Sep 25 03:11:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

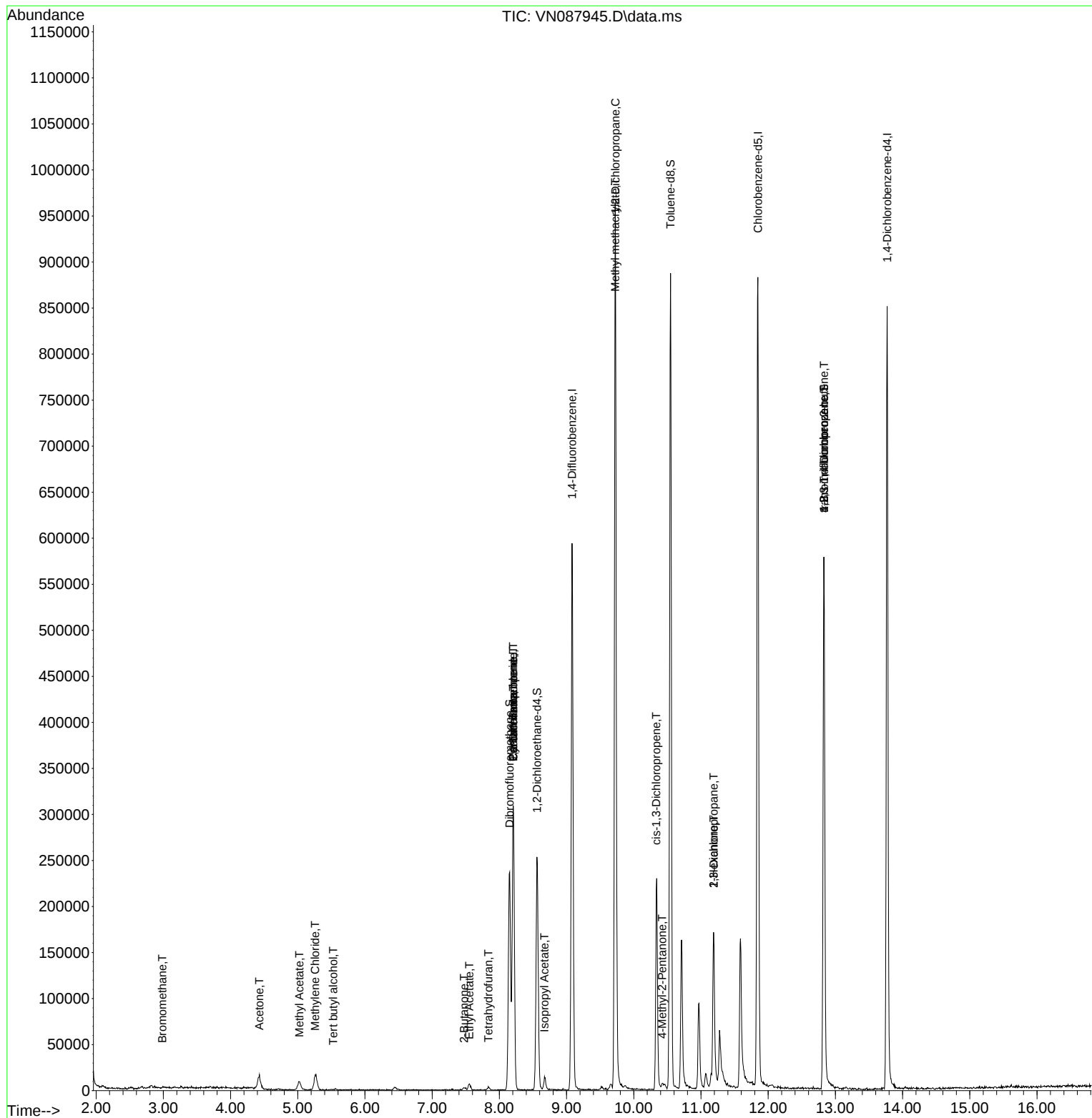
Internal Standards						
1) Pentafluorobenzene	8.206	168	213965	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	481766	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	501665	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	231121	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	206225	57.271	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.540%
35) Dibromofluoromethane	8.153	113	168215	48.090	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.180%
50) Toluene-d8	10.547	98	594738	48.350	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.700%
62) 4-Bromofluorobenzene	12.829	95	202155	45.977	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.960%
Target Compounds						
					Qvalue	
5) Bromomethane	2.983	94	543	0.338	ug/l #	40
11) Tert butyl alcohol	5.530	59	113	0.218	ug/l #	71
16) Acetone	4.430	43	25712	17.355	ug/l	92
18) Methyl Acetate	5.024	43	20316	5.479	ug/l #	79
20) Methylene Chloride	5.259	84	12415	4.140	ug/l	98
25) 2-Butanone	7.477	43	4909	2.168	ug/l #	81
29) Tetrahydrofuran	7.835	42	2478	1.709	ug/l #	43
31) Cyclohexane	8.206	56	6269	1.553	ug/l #	17
36) 1,1-Dichloropropene	8.206	75	19709	4.686	ug/l #	48
37) Ethyl Acetate	7.553	43	10607	1.920	ug/l #	91
38) Carbon Tetrachloride	8.206	117	22611	4.685	ug/l #	22
43) Isopropyl Acetate	8.671	43	14955	1.720	ug/l #	79
45) 1,2-Dichloropropane	9.729	63	1470	0.421	ug/l #	43
48) Methyl methacrylate	9.724	41	91967	22.843	ug/l #	42
51) 4-Methyl-2-Pentanone	10.423	43	4568	0.842	ug/l #	83
54) cis-1,3-Dichloropropene	10.335	75	42026	7.315	ug/l #	68
57) 1,3-Dichloropropane	11.188	76	2141	0.366	ug/l #	42
59) 2-Hexanone	11.188	43	29263	8.158	ug/l #	58
76) 1,2,3-Trichloropropane	12.829	75	113067	24.818	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	113067	68.915	ug/l #	9

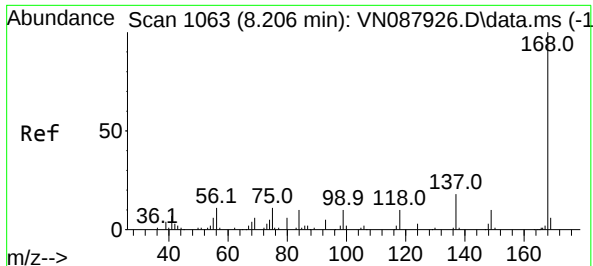
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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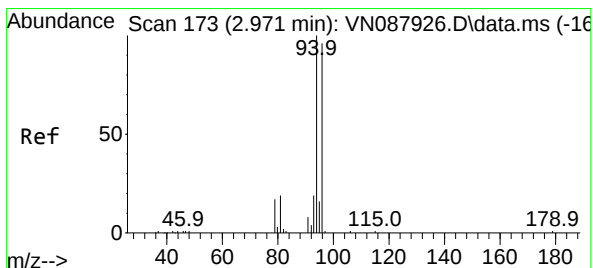
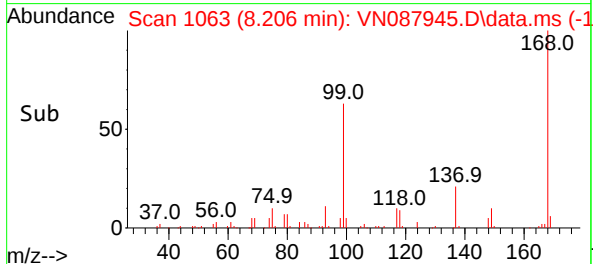
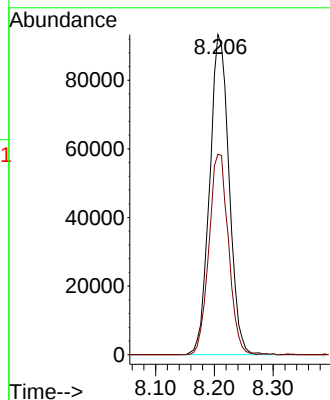
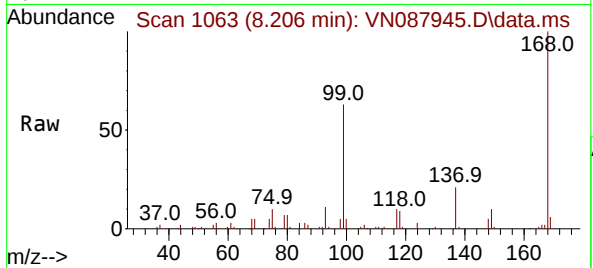




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

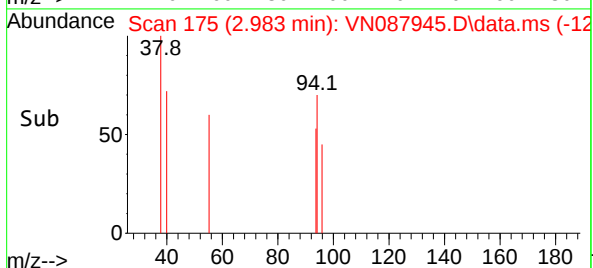
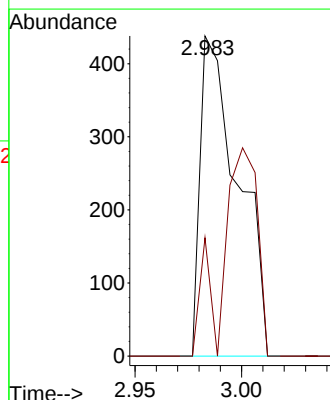
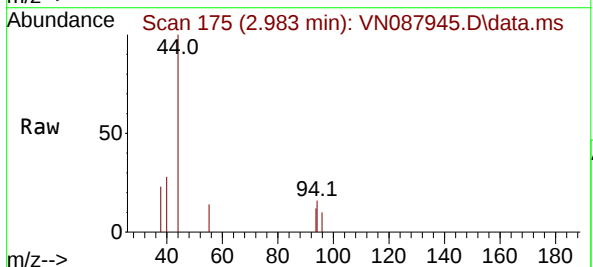
Instrument :
MSVOA_N
ClientSampleId :
RT4784

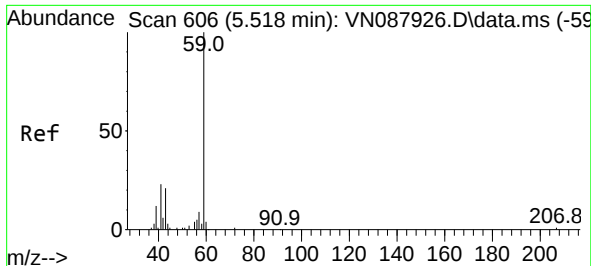
Tgt Ion:168 Resp: 213965
Ion Ratio Lower Upper
168 100
99 62.7 52.2 78.2



#5
Bromomethane
Concen: 0.338 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.012 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 94 Resp: 543
Ion Ratio Lower Upper
94 100
96 37.0 76.8 115.2#

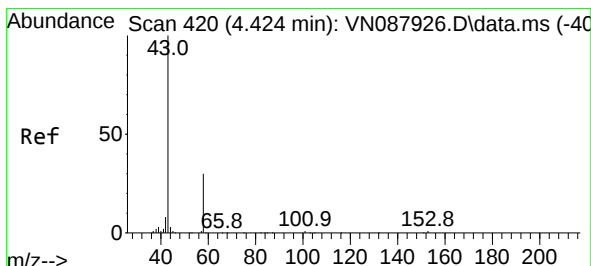
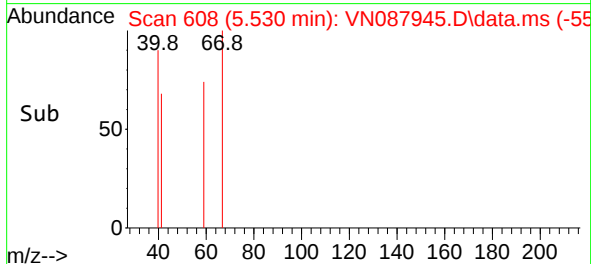
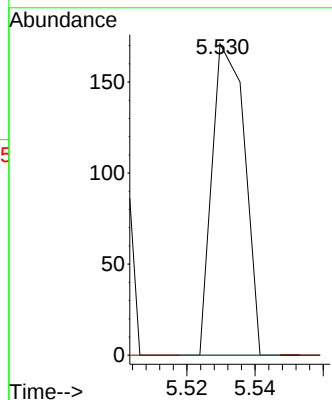
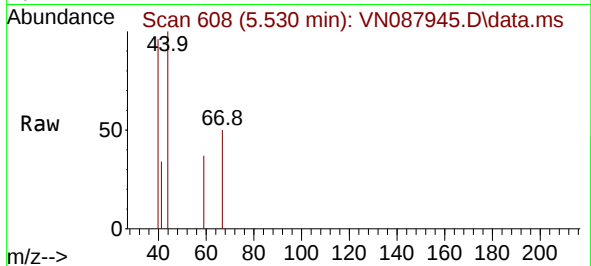




#11
Tert butyl alcohol
Concen: 0.218 ug/l
RT: 5.530 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

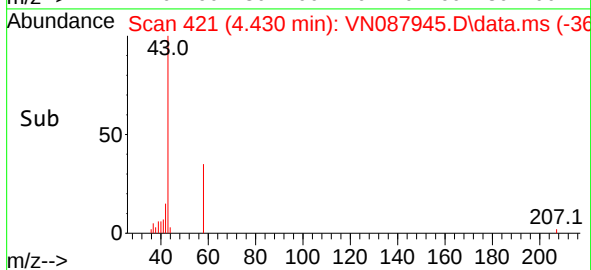
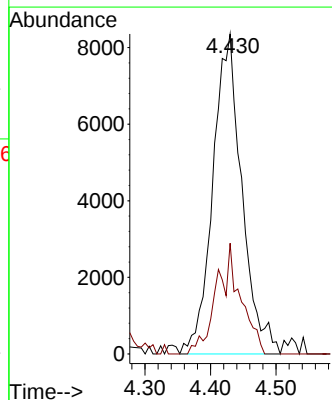
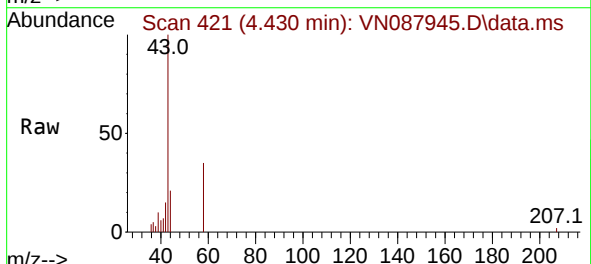
Instrument :
MSVOA_N
ClientSampleId :
RT4784

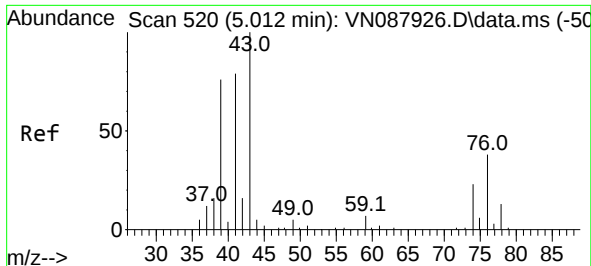
Tgt Ion: 59 Resp: 113
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#16
Acetone
Concen: 17.355 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 43 Resp: 25712
Ion Ratio Lower Upper
43 100
58 34.6 24.1 36.1

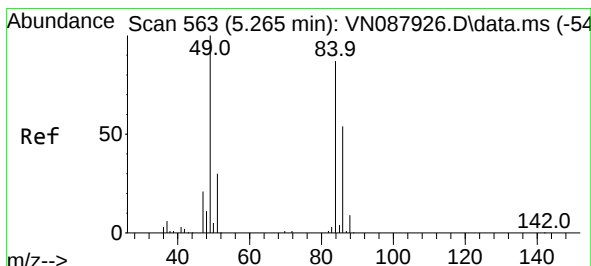
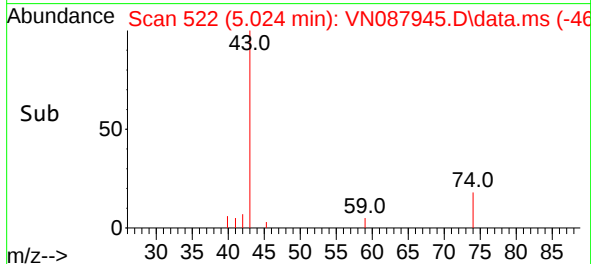
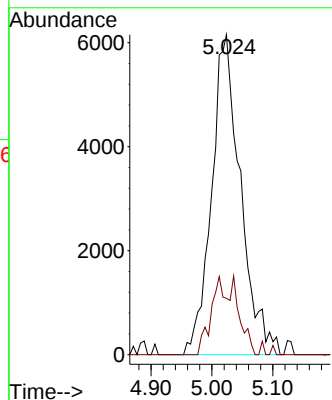
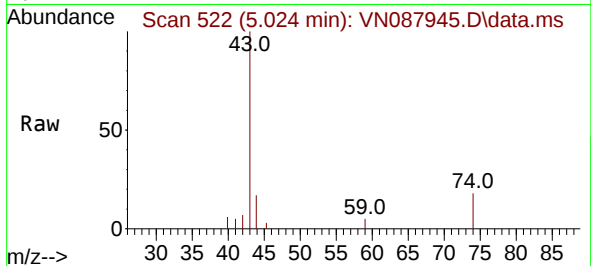




#18
Methyl Acetate
Concen: 5.479 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

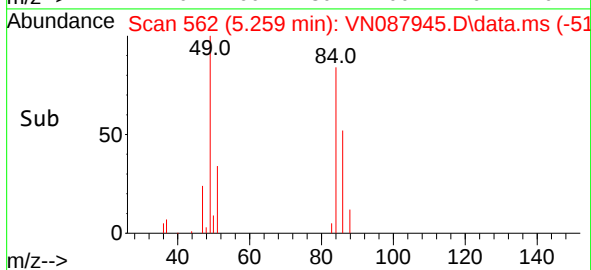
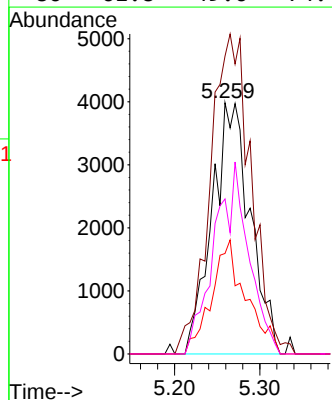
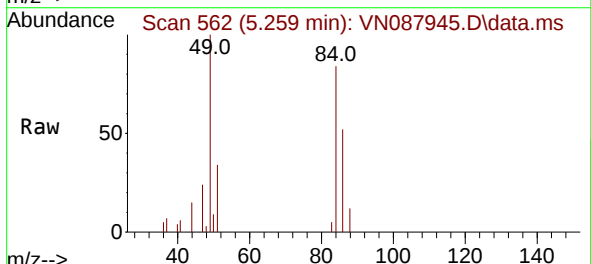
Instrument :
MSVOA_N
ClientSampleId :
RT4784

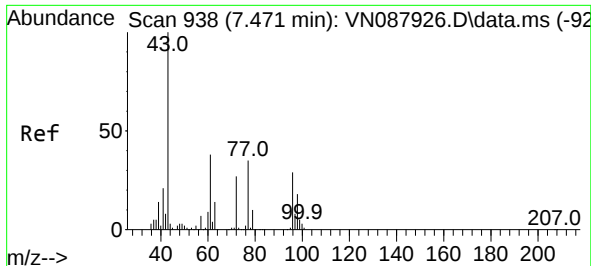
Tgt Ion: 43 Resp: 20316
Ion Ratio Lower Upper
43 100
74 14.2 19.7 29.5#



#20
Methylene Chloride
Concen: 4.140 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 84 Resp: 12415
Ion Ratio Lower Upper
84 100
49 114.8 92.1 138.1
51 40.0 27.7 41.5
86 61.8 49.6 74.4

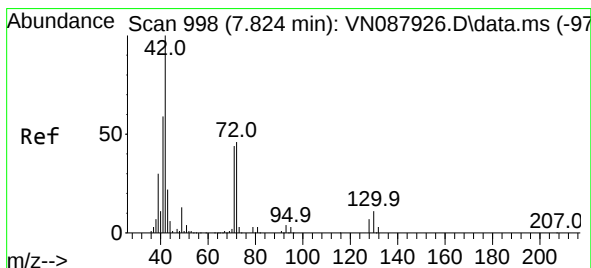
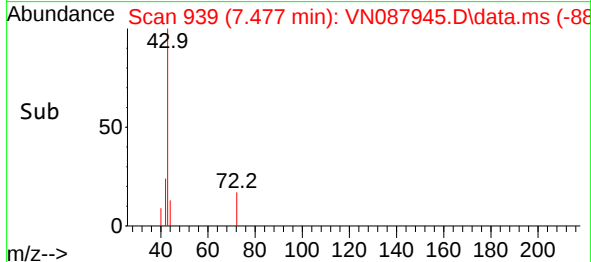
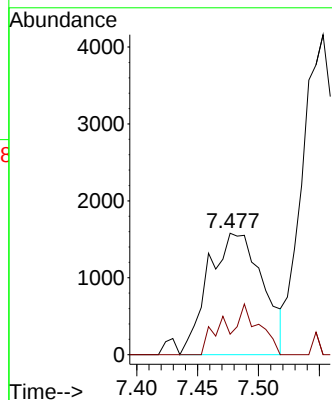
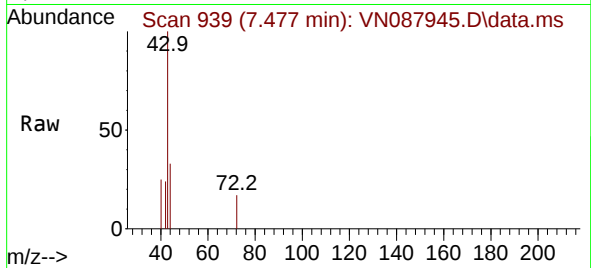




#25
2-Butanone
Concen: 2.168 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

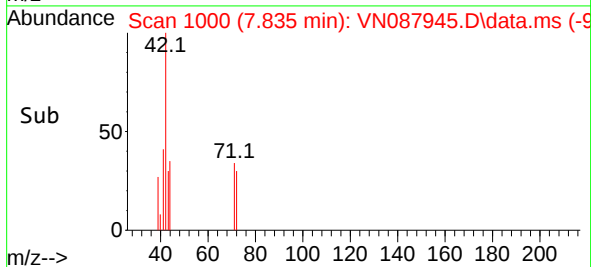
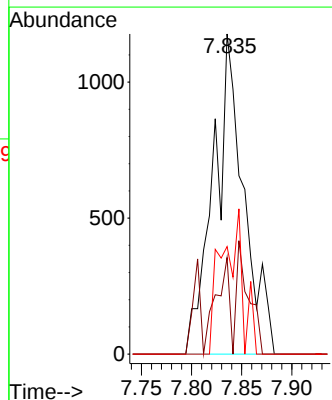
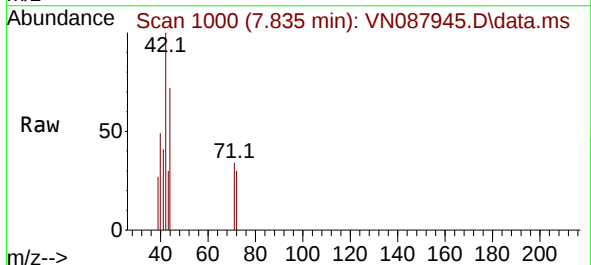
Instrument :
MSVOA_N
ClientSampleId :
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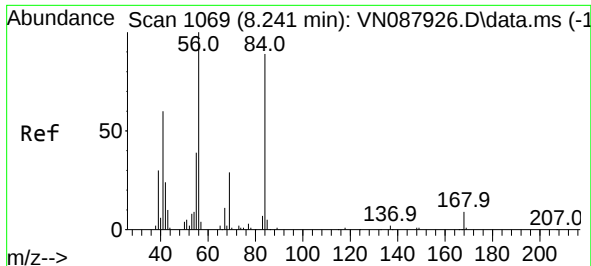
Tgt Ion: 43 Resp: 4909
Ion Ratio Lower Upper
43 100
72 16.9 21.5 32.3#



#29
Tetrahydrofuran
Concen: 1.709 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 42 Resp: 2478
Ion Ratio Lower Upper
42 100
72 13.4 36.5 54.7#
71 0.0 33.8 50.8#

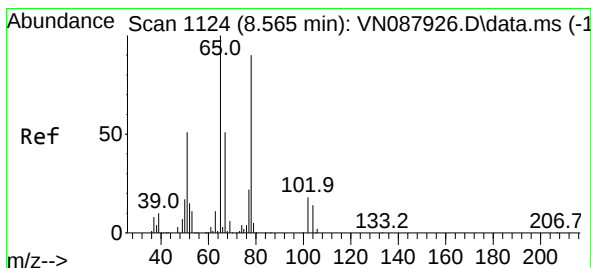
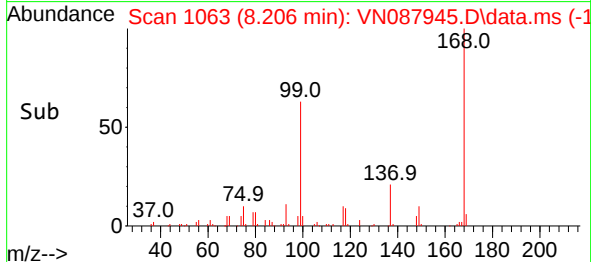
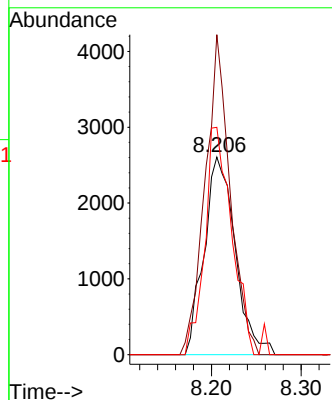
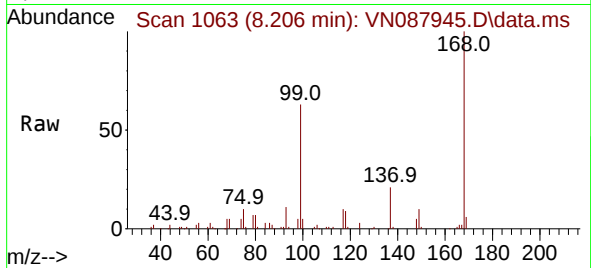




#31
Cyclohexane
Concen: 1.553 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

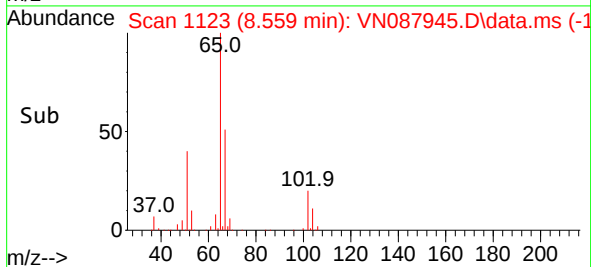
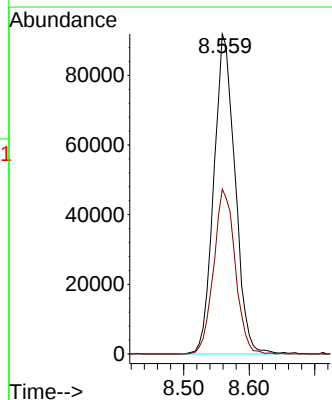
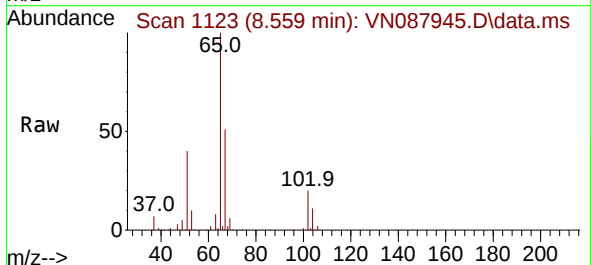
Instrument :
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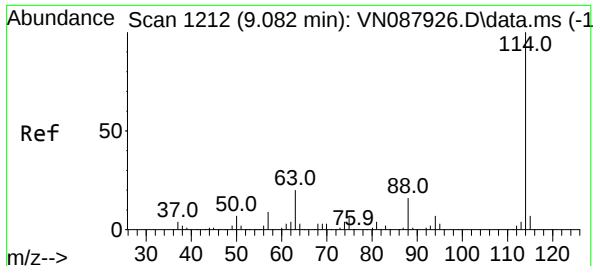
Tgt Ion: 56 Resp: 6269
Ion Ratio Lower Upper
56 100
69 161.9 23.4 35.0#
84 115.0 70.8 106.2#



#33
1,2-Dichloroethane-d4
Concen: 57.271 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 65 Resp: 206225
Ion Ratio Lower Upper
65 100
67 52.2 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087945.D

Acq: 24 Sep 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

RT4784

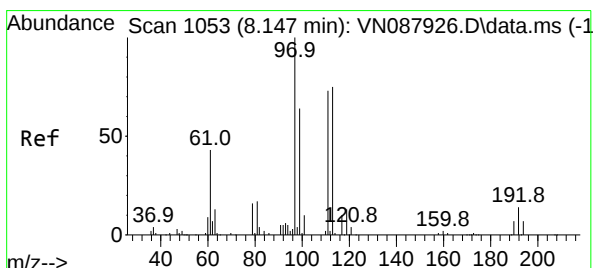
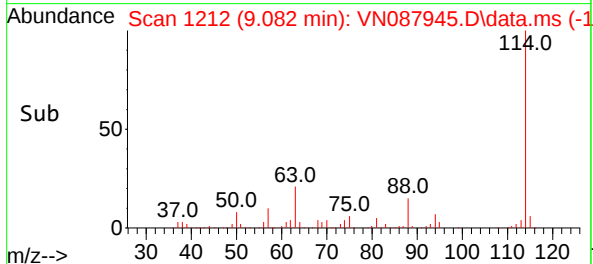
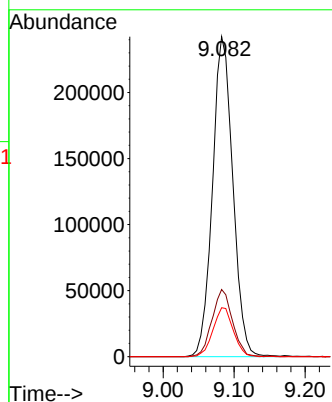
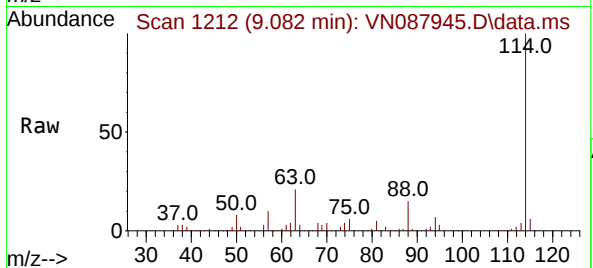
Tgt Ion:114 Resp: 481766

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.0

88 15.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 48.090 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087945.D

Acq: 24 Sep 2025 13:47

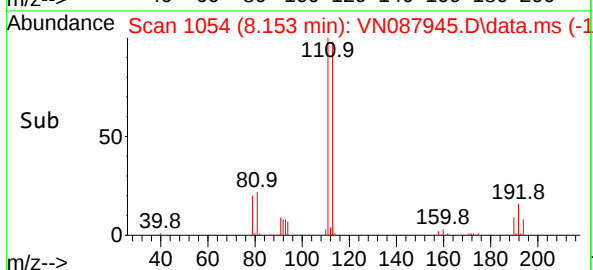
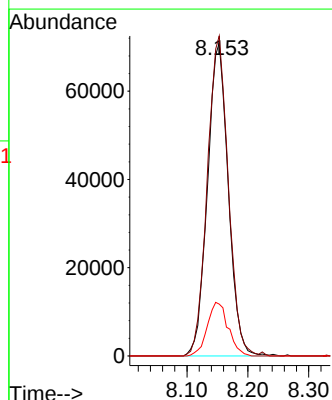
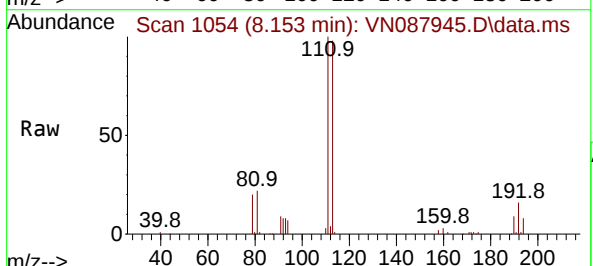
Tgt Ion:113 Resp: 168215

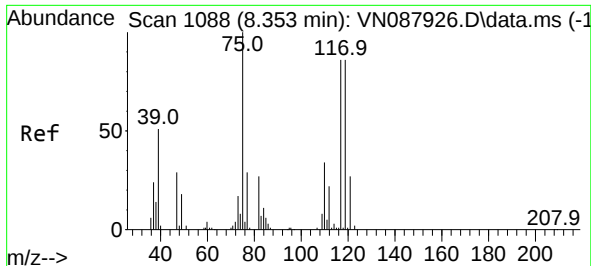
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.2

192 17.2 14.2 21.2





#36

1,1-Dichloropropene

Concen: 4.686 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087945.D

Acq: 24 Sep 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

RT4784

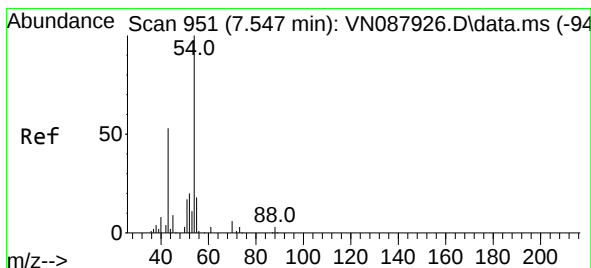
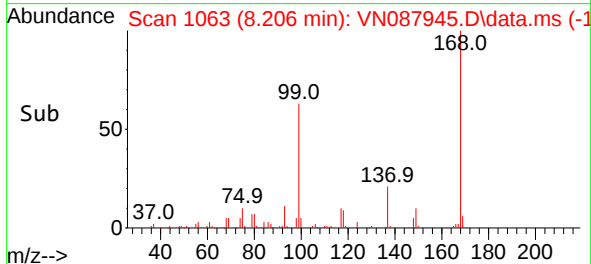
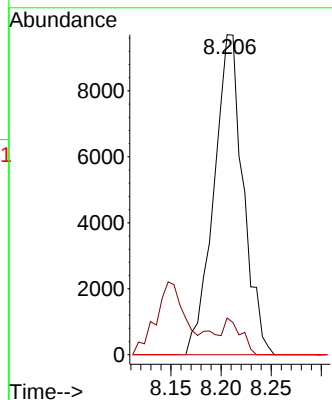
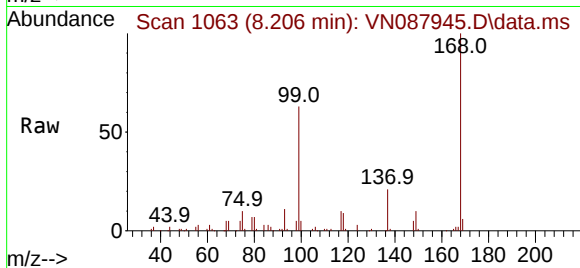
Tgt Ion: 75 Resp: 19709

Ion Ratio Lower Upper

75 100

110 6.3 17.1 51.3#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 1.920 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087945.D

Acq: 24 Sep 2025 13:47

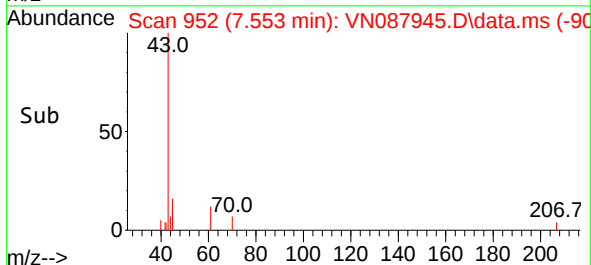
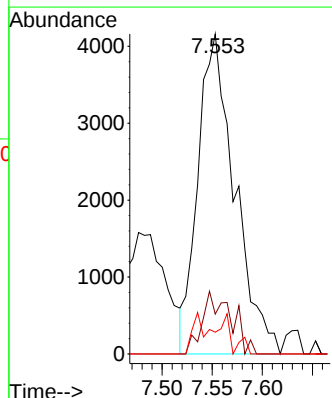
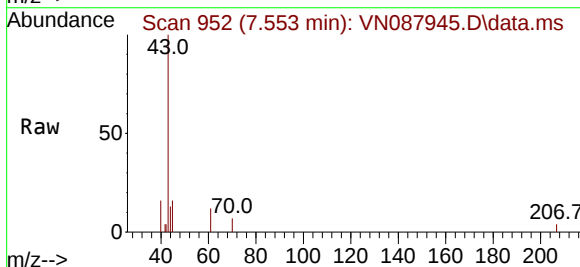
Tgt Ion: 43 Resp: 10607

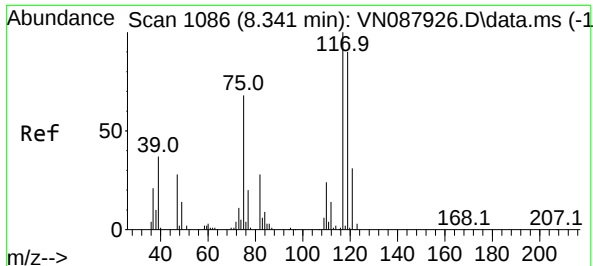
Ion Ratio Lower Upper

43 100

61 15.4 10.7 16.1

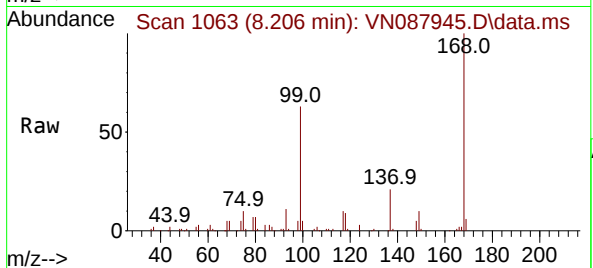
70 4.1 7.8 11.8#



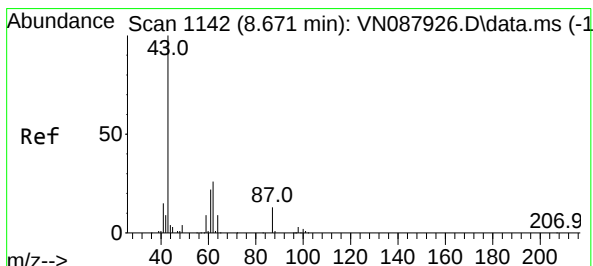
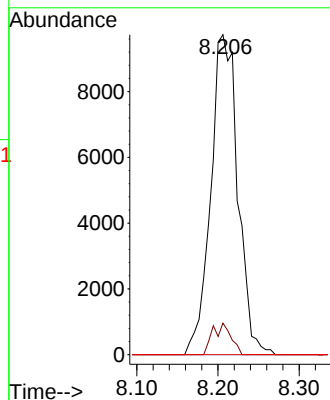
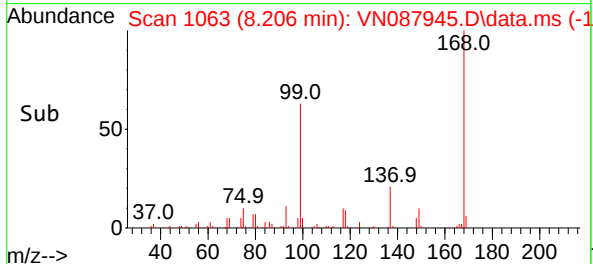


#38
Carbon Tetrachloride
Concen: 4.685 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Instrument :
MSVOA_N
ClientSampleId :
RT4784

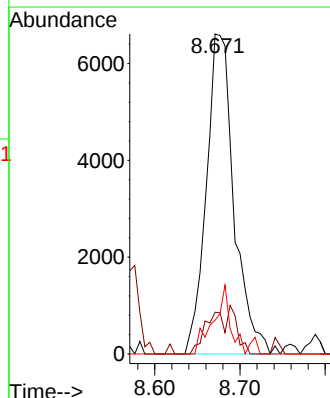
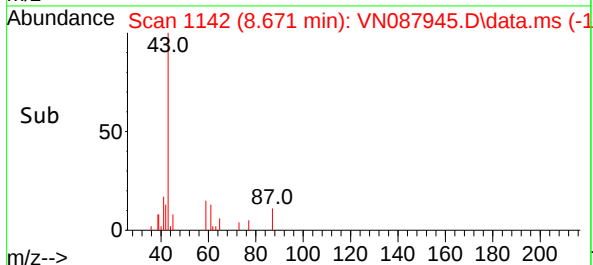
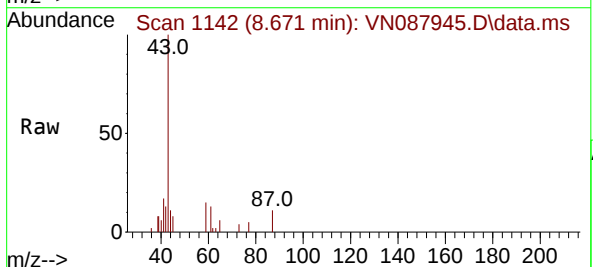


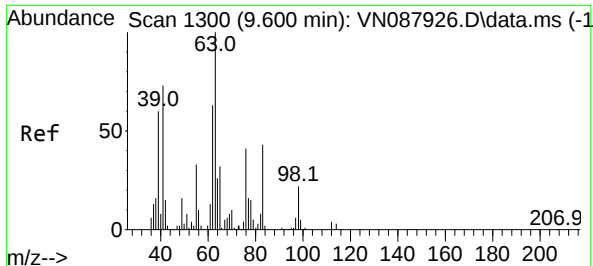
Tgt Ion:117 Resp: 22611
Ion Ratio Lower Upper
117 100
119 9.8 72.1 108.1#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 1.720 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 43 Resp: 14955
Ion Ratio Lower Upper
43 100
61 9.1 20.2 30.2#
87 13.2 10.9 16.3





#45

1,2-Dichloropropane

Concen: 0.421 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.129 min

Lab File: VN087945.D

Acq: 24 Sep 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

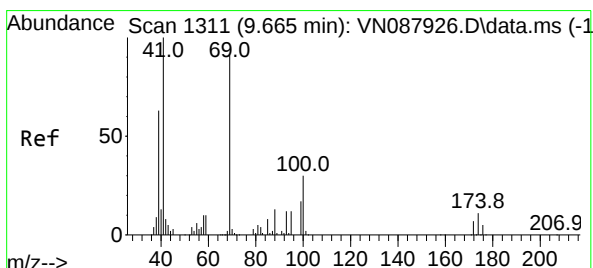
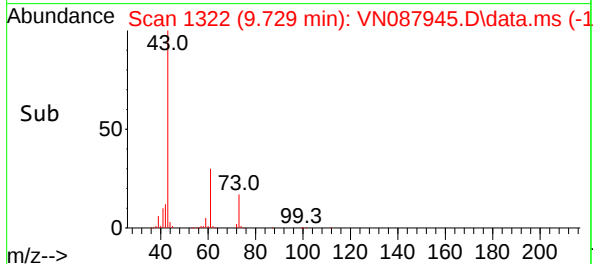
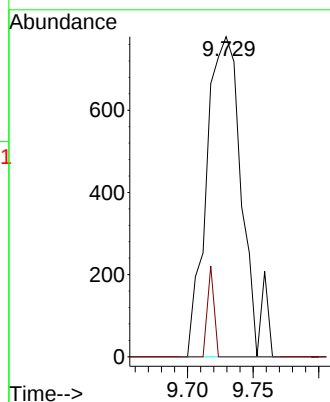
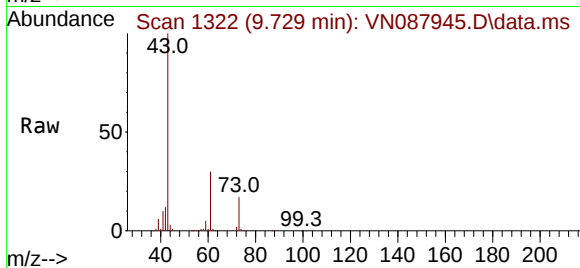
RT4784

Tgt Ion: 63 Resp: 1470

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



#48

Methyl methacrylate

Concen: 22.843 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087945.D

Acq: 24 Sep 2025 13:47

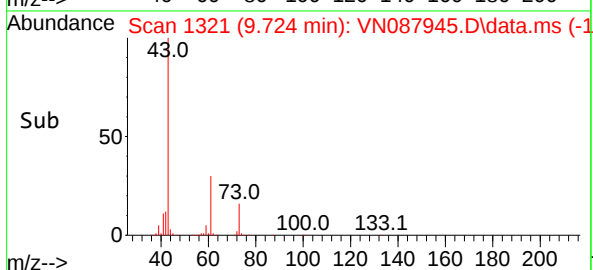
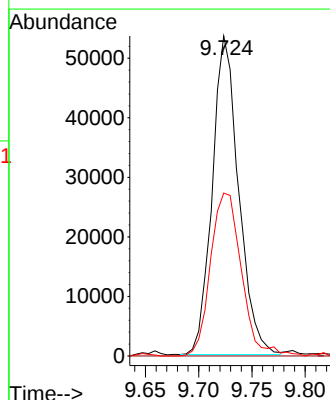
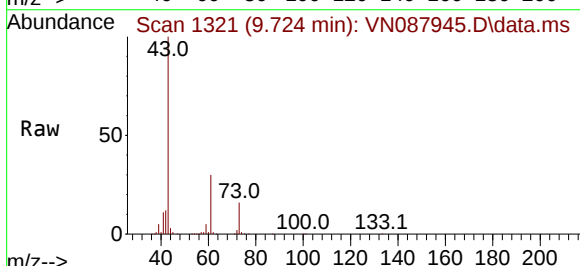
Tgt Ion: 41 Resp: 91967

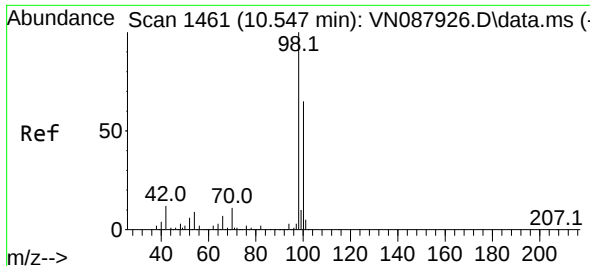
Ion Ratio Lower Upper

41 100

69 0.0 70.9 106.3#

39 59.9 52.9 79.3

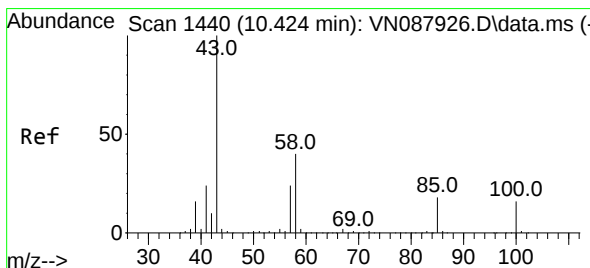
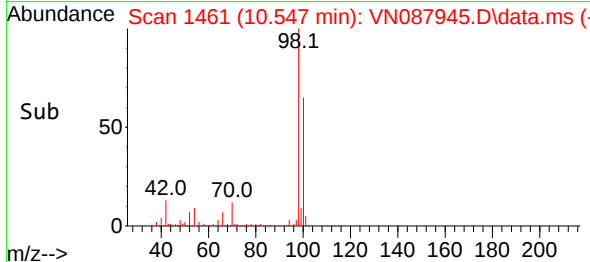
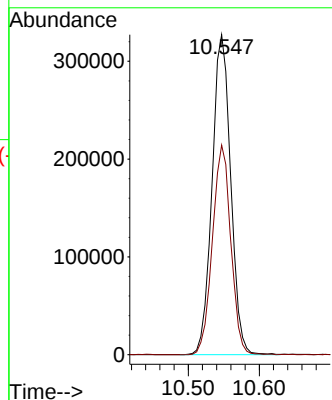
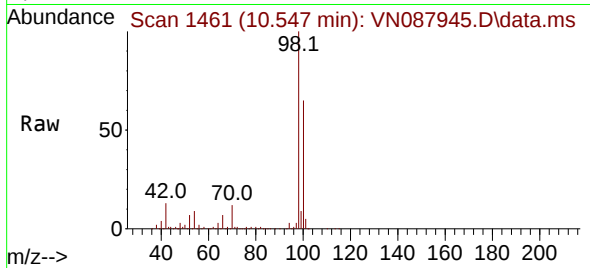




#50
Toluene-d8
Concen: 48.350 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

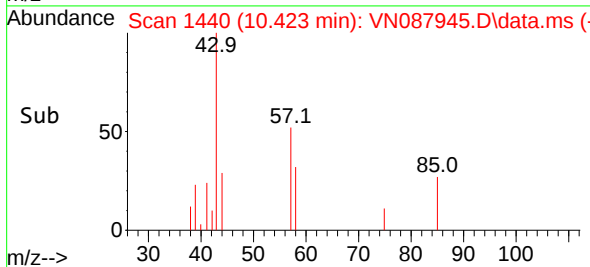
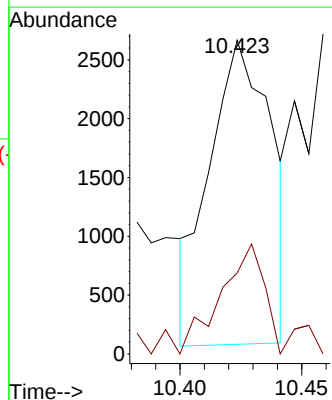
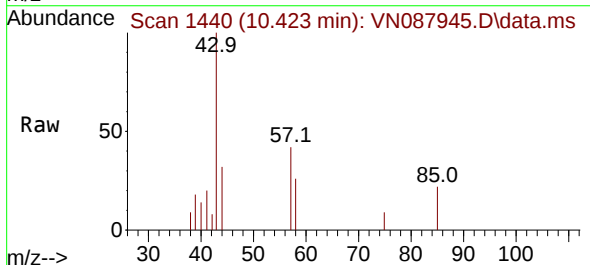
Instrument :
MSVOA_N
ClientSampleId :
RT4784

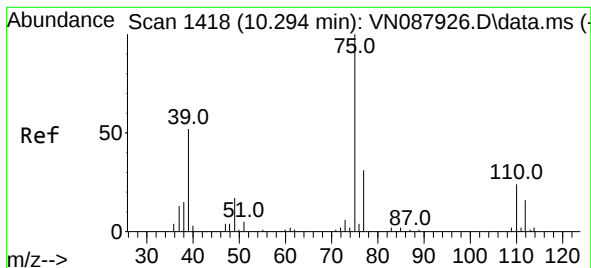
Tgt Ion: 98 Resp: 594738
Ion Ratio Lower Upper
98 100
100 64.6 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.842 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 43 Resp: 4568
Ion Ratio Lower Upper
43 100
58 28.7 31.0 46.6#

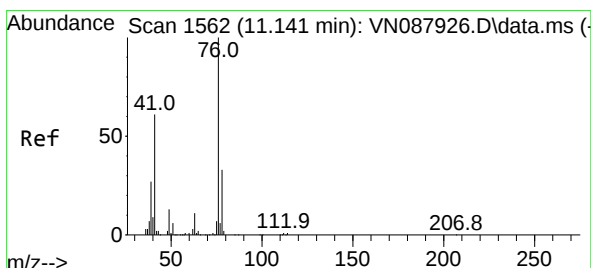
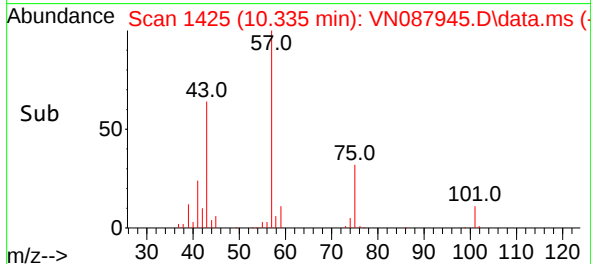
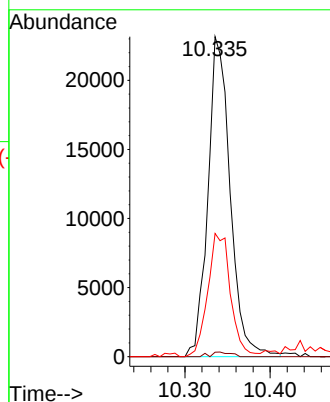
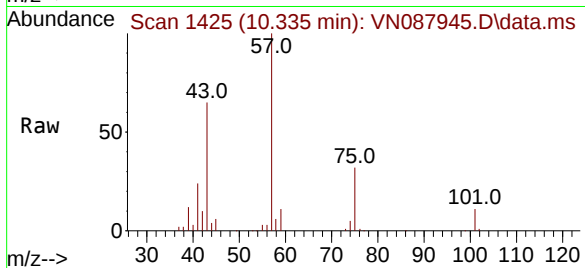




#54
 cis-1,3-Dichloropropene
 Concen: 7.315 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN087945.D
 Acq: 24 Sep 2025 13:47

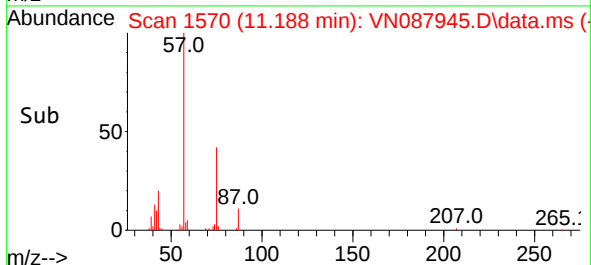
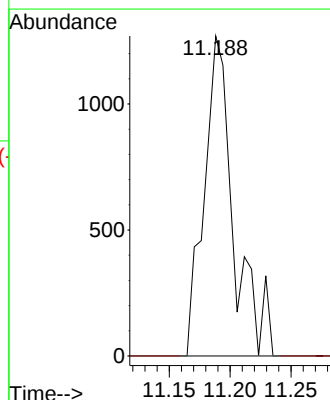
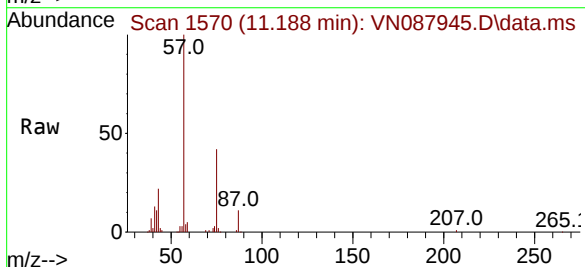
Instrument :
 MSVOA_N
 ClientSampleId :
 RT4784

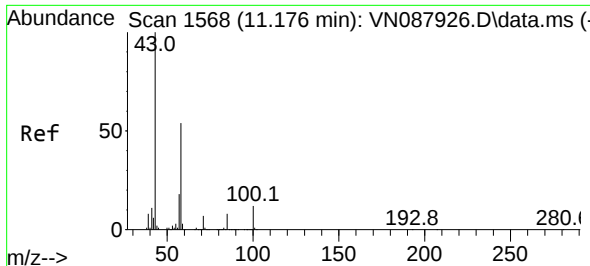
Tgt Ion: 75 Resp: 42026
 Ion Ratio Lower Upper
 75 100
 77 1.4 24.7 37.1#
 39 38.5 41.4 62.0#



#57
 1,3-Dichloropropane
 Concen: 0.366 ug/l
 RT: 11.188 min Scan# 1570
 Delta R.T. 0.047 min
 Lab File: VN087945.D
 Acq: 24 Sep 2025 13:47

Tgt Ion: 76 Resp: 2141
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

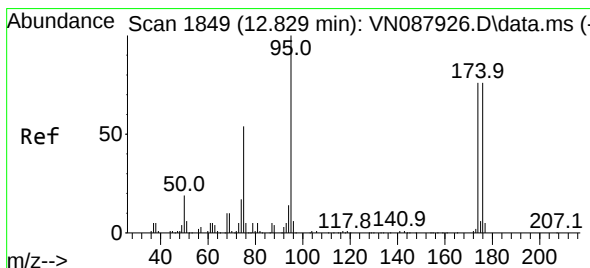
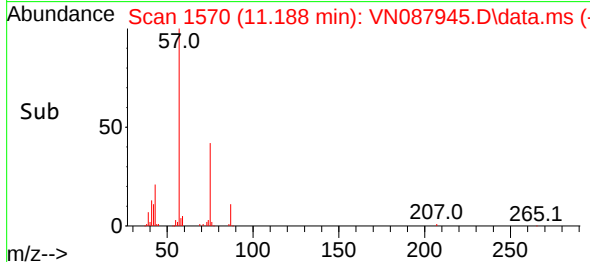
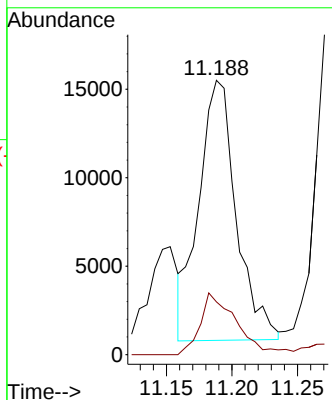
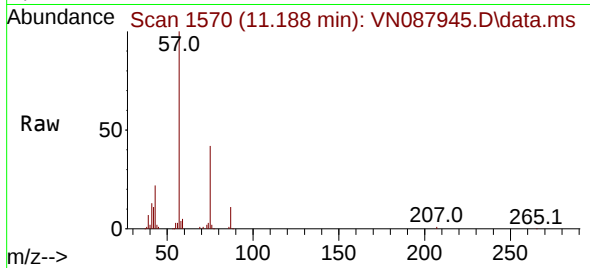




#59
2-Hexanone
Concen: 8.158 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

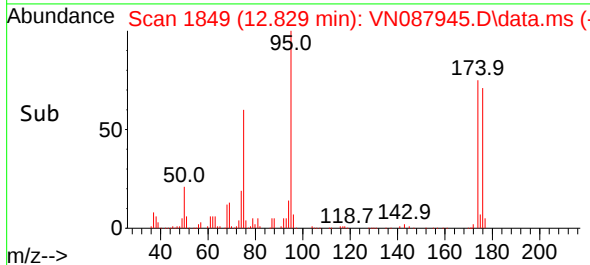
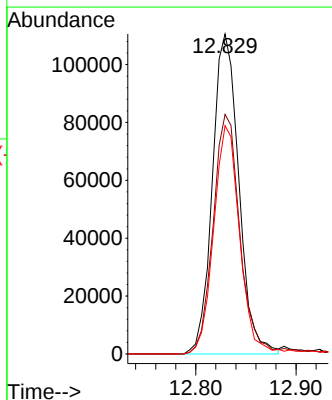
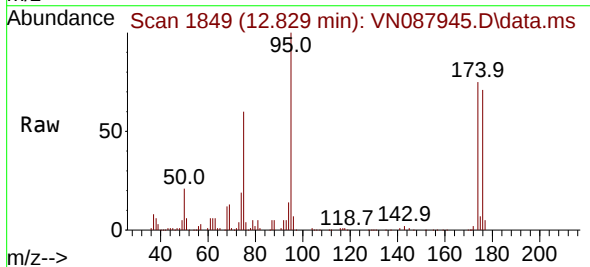
Instrument :
MSVOA_N
ClientSampleId :
RT4784

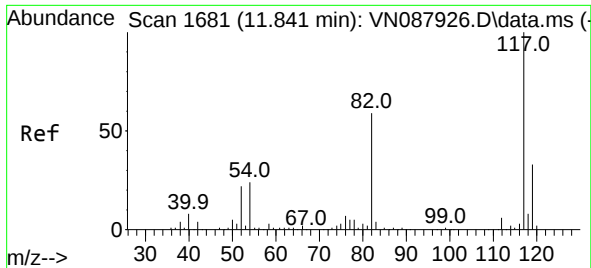
Tgt Ion: 43 Resp: 29263
Ion Ratio Lower Upper
43 100
58 23.1 26.4 79.2#



#62
4-Bromofluorobenzene
Concen: 45.977 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 95 Resp: 202155
Ion Ratio Lower Upper
95 100
174 75.4 0.0 159.2
176 71.5 0.0 152.6

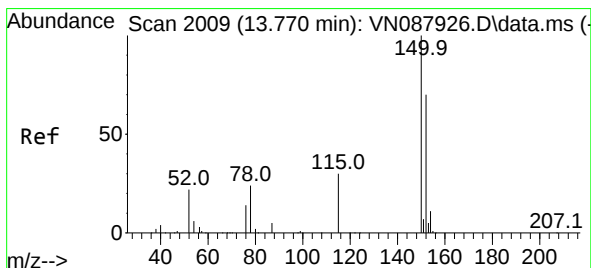
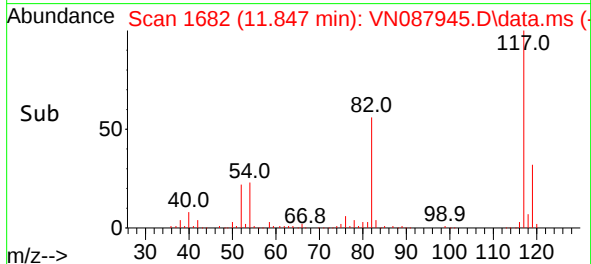
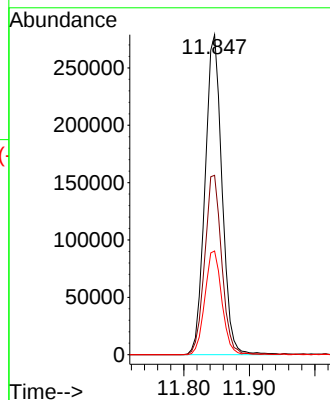
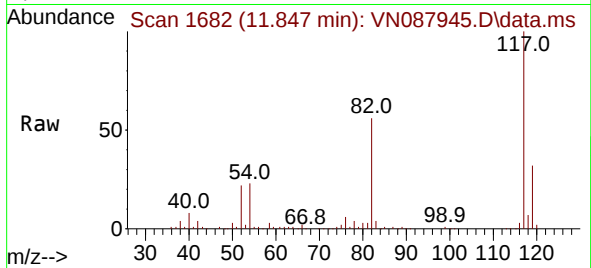




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

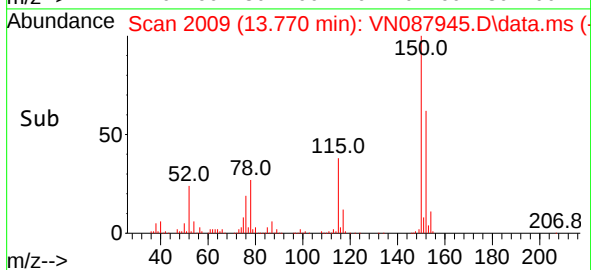
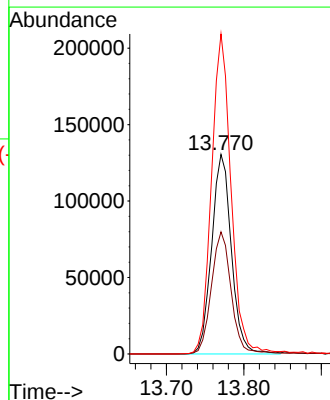
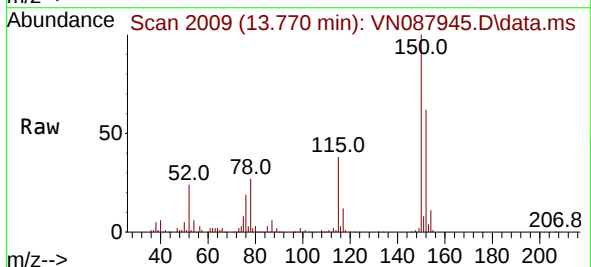
Instrument :
MSVOA_N
ClientSampleId :
RT4784

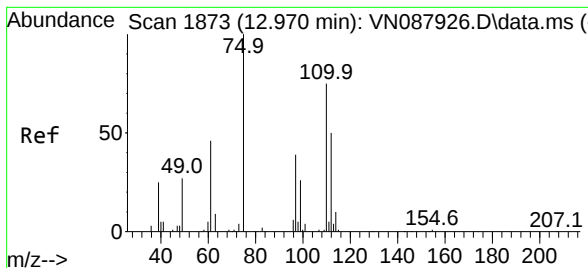
Tgt Ion:117 Resp: 501665
Ion Ratio Lower Upper
117 100
82 56.0 47.0 70.4
119 32.4 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion:152 Resp: 231121
Ion Ratio Lower Upper
152 100
115 61.4 29.9 89.7
150 159.6 0.0 335.0

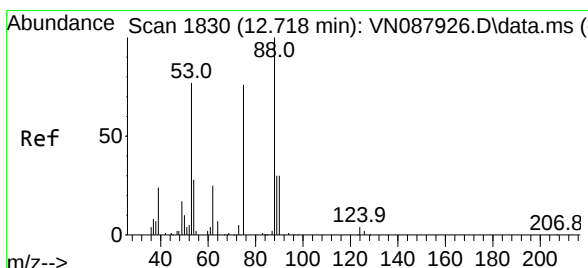
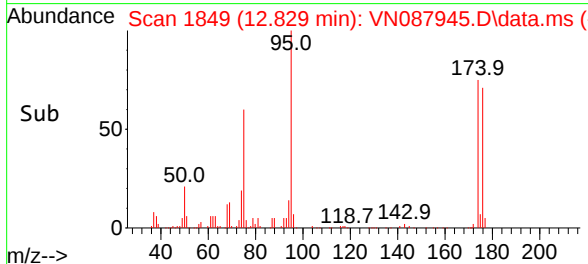
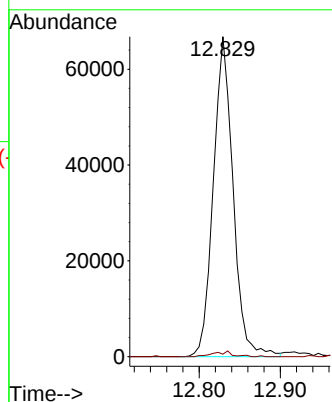
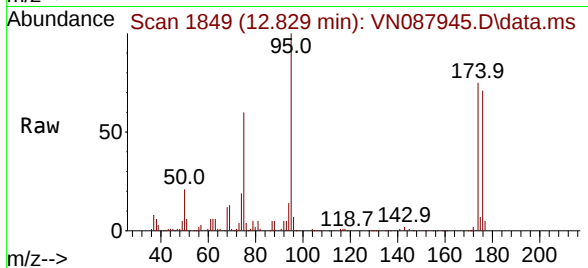




#76
1,2,3-Trichloropropane
Concen: 24.818 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Instrument :
MSVOA_N
ClientSampleId :
RT4784

Tgt Ion: 75 Resp: 113067
Ion Ratio Lower Upper
75 100
77 1.6 89.5 268.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.915 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087945.D
Acq: 24 Sep 2025 13:47

Tgt Ion: 75 Resp: 113067
Ion Ratio Lower Upper
75 100
53 0.2 82.0 123.0#
89 0.0 36.1 54.1#

