

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082525\
 Data File : VN087656.D
 Acq On : 25 Aug 2025 14:40
 Operator : JC\MD
 Sample : Q2936-03RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 26 01:35:43 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

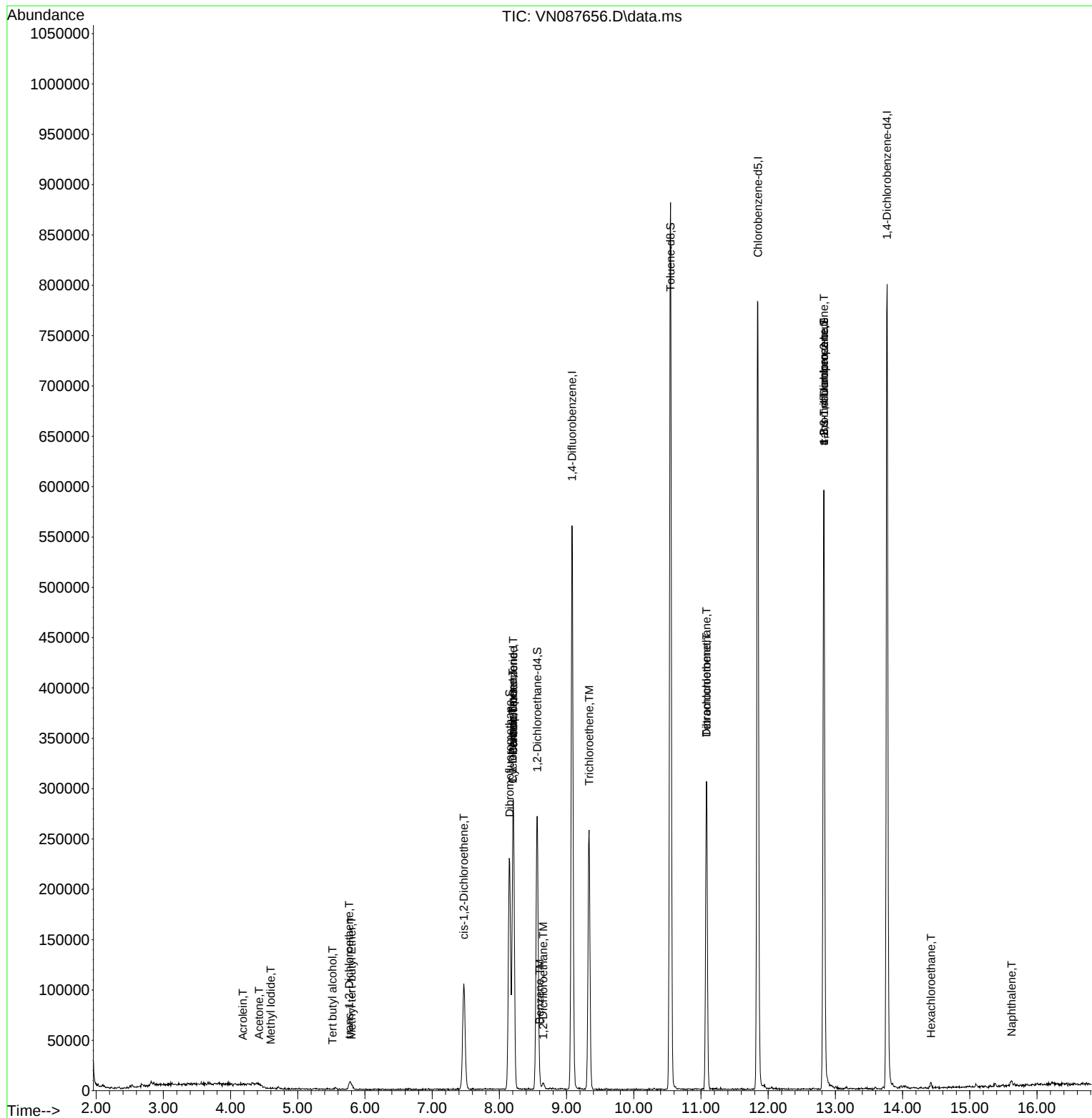
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	194994	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	447255	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	431712	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	205053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	225694	56.491	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 112.980%		
35) Dibromofluoromethane	8.153	113	161652	50.060	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.120%		
50) Toluene-d8	10.547	98	584621	48.371	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 96.740%		
62) 4-Bromofluorobenzene	12.829	95	208972	48.618	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 97.240%		
Target Compounds						Qvalue
10) Methyl Iodide	4.600	142	129	6.865	ug/l #	38
11) Tert butyl alcohol	5.518	59	184	0.265	ug/l #	71
13) Acrolein	4.183	56	278	0.326	ug/l	95
16) Acetone	4.424	43	1369	0.629	ug/l #	47
19) Methyl tert-butyl Ether	5.800	73	3298	0.313	ug/l	98
20) Methylene Chloride	5.271	84	127	Below Cal	#	63
21) trans-1,2-Dichloroethene	5.765	96	2522	0.828	ug/l #	58
27) cis-1,2-Dichloroethene	7.471	96	61049	16.760	ug/l	88
31) Cyclohexane	8.200	56	6080	1.210	ug/l #	37
36) 1,1-Dichloropropene	8.200	75	19528	3.942	ug/l #	54
38) Carbon Tetrachloride	8.206	117	22415	4.583	ug/l #	17
40) Benzene	8.600	78	7426	0.489	ug/l #	82
42) 1,2-Dichloroethane	8.653	62	4930	0.844	ug/l	98
44) Trichloroethene	9.335	130	86002	24.791	ug/l	89
60) Dibromochloromethane	11.082	129	65369	15.482	ug/l #	11
64) Tetrachloroethene	11.082	164	65998	22.035	ug/l	89
76) 1,2,3-Trichloropropane	12.829	75	122814	25.540	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	122814	67.616	ug/l #	1
90) Hexachloroethane	14.423	117	3414	1.248	ug/l #	22
95) Naphthalene	15.623	128	5771	0.372	ug/l #	96

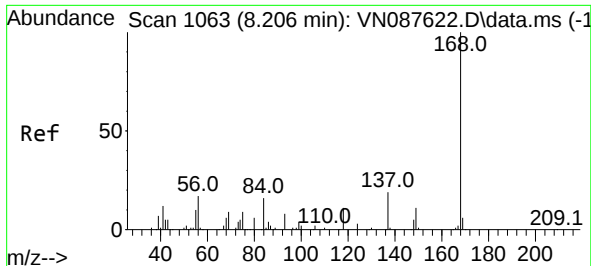
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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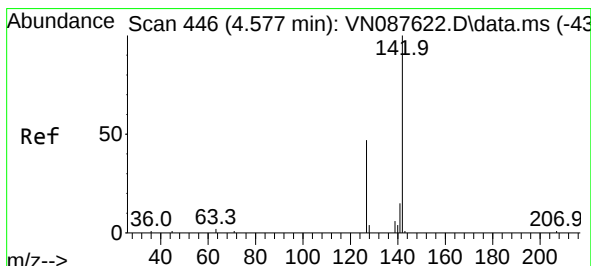
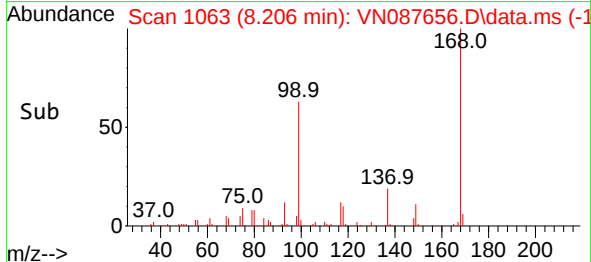
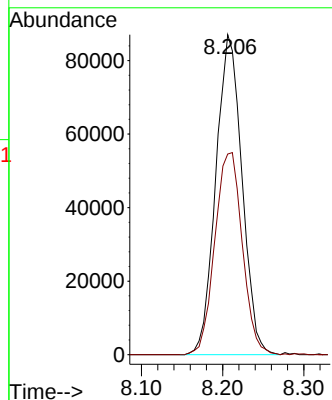
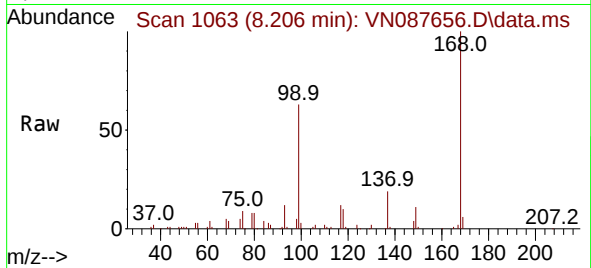




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

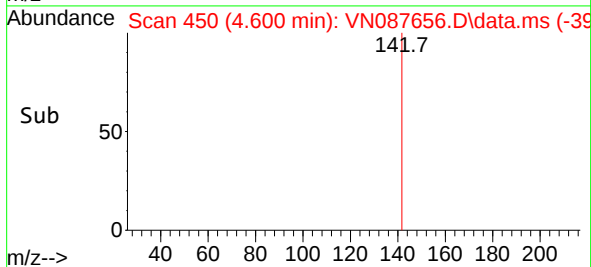
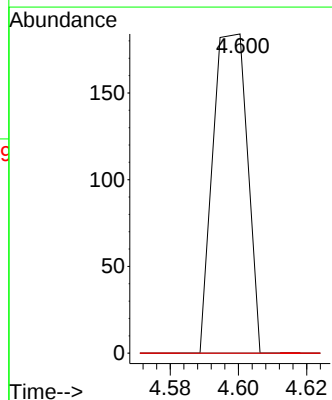
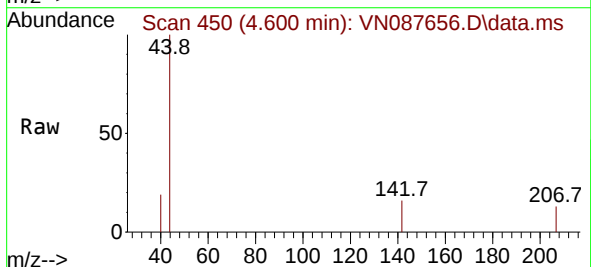
Instrument :
MSVOA_N
ClientSampleId :

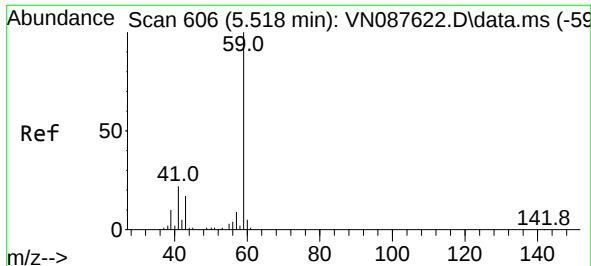
Tgt Ion:168 Resp: 194994
Ion Ratio Lower Upper
168 100
99 62.7 57.2 85.8



#10
Methyl Iodide
Concen: 6.865 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.023 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Tgt Ion:142 Resp: 129
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

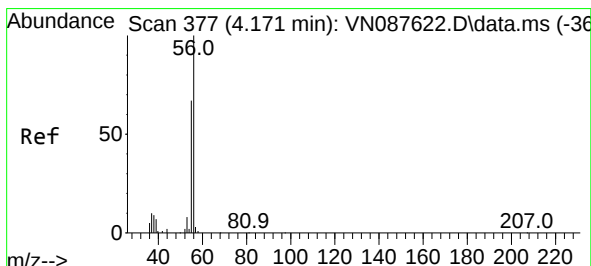
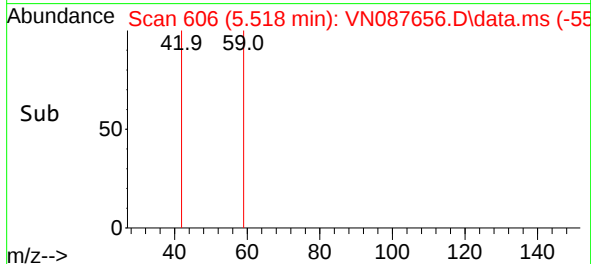
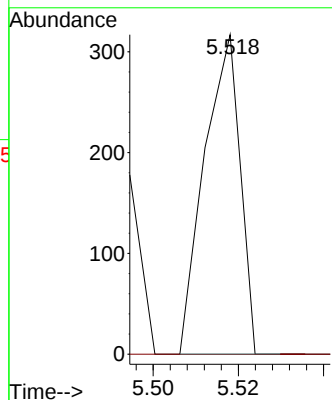
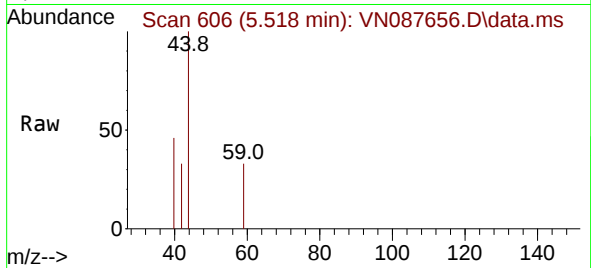




#11
Tert butyl alcohol
Concen: 0.265 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

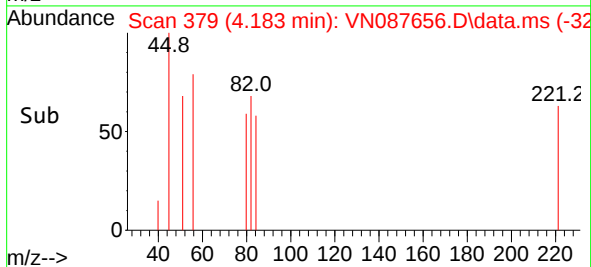
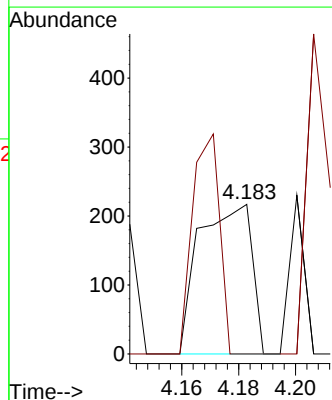
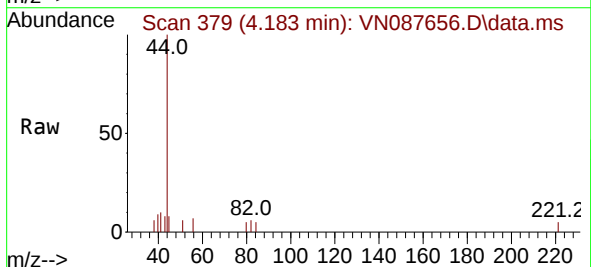
Instrument :
MSVOA_N
ClientSampleId :

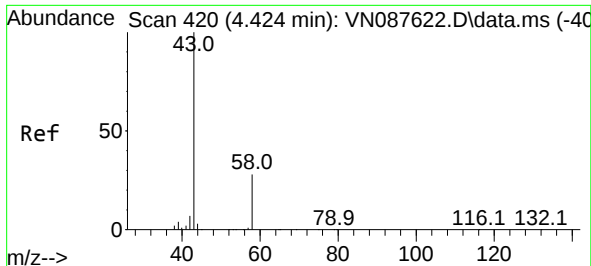
Tgt Ion: 59 Resp: 184
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.326 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.012 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Tgt Ion: 56 Resp: 278
Ion Ratio Lower Upper
56 100
55 75.9 57.3 85.9





#16

Acetone

Concen: 0.629 ug/l

RT: 4.424 min Scan# 431

Delta R.T. -0.000 min

Lab File: VN087656.D

Acq: 25 Aug 2025 14:40

Instrument :

MSVOA_N

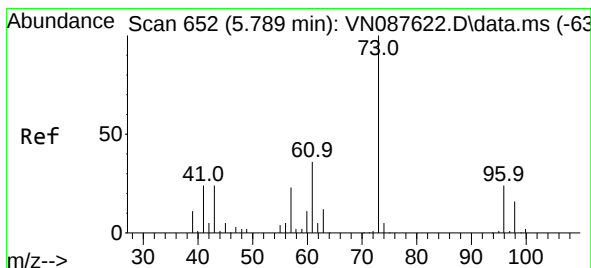
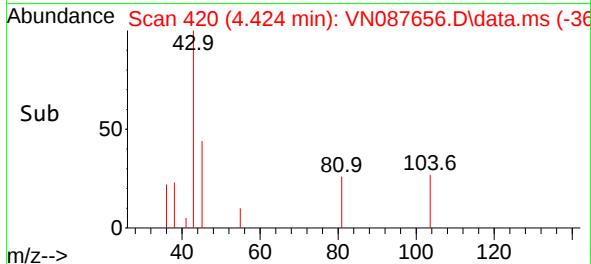
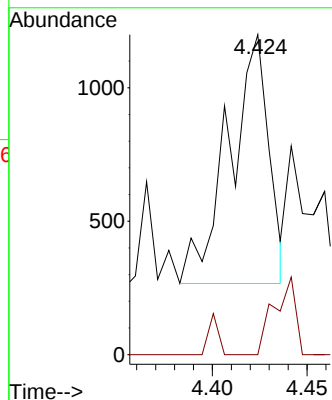
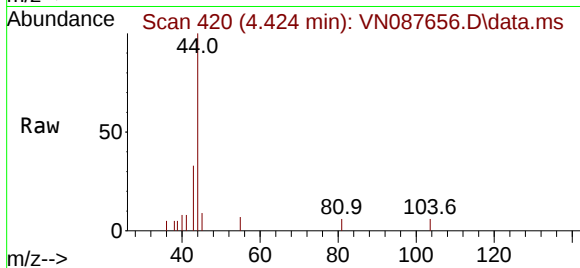
ClientSampleId :

Tgt Ion: 43 Resp: 1369

Ion Ratio Lower Upper

43 100

58 0.0 22.6 33.8#



#19

Methyl tert-butyl Ether

Concen: 0.313 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.012 min

Lab File: VN087656.D

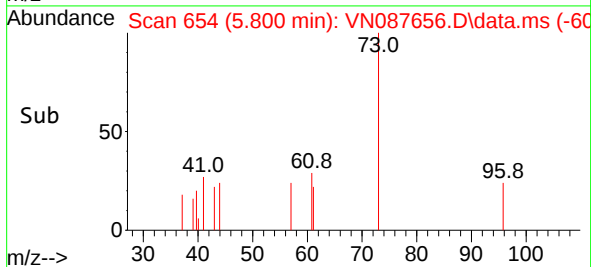
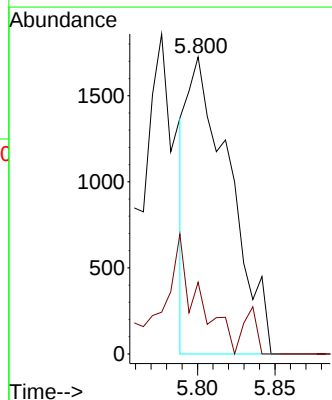
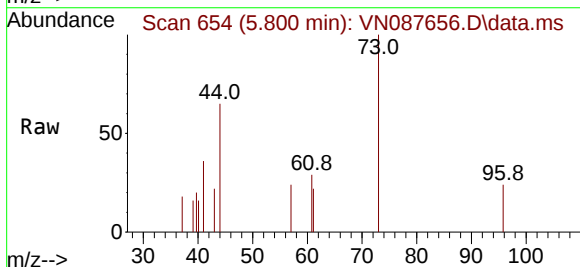
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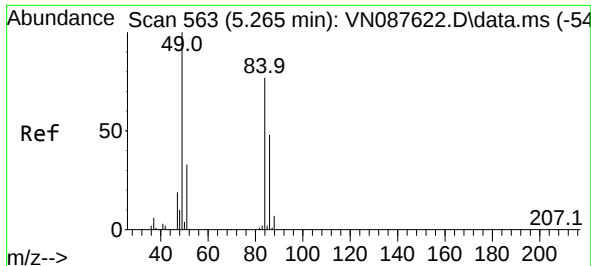
Tgt Ion: 73 Resp: 3298

Ion Ratio Lower Upper

73 100

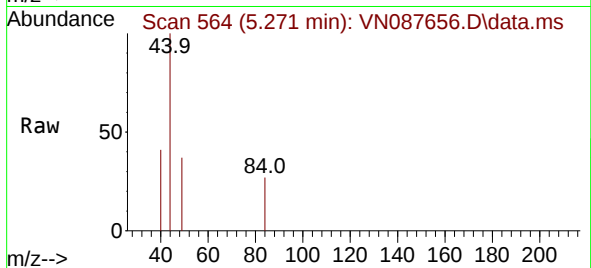
57 24.1 18.4 27.6



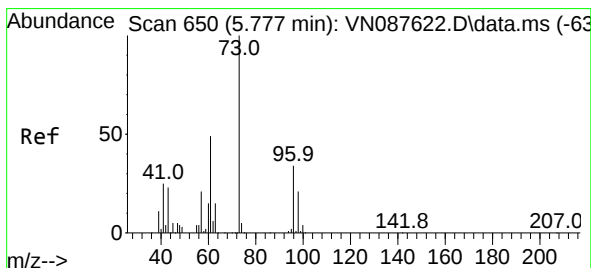
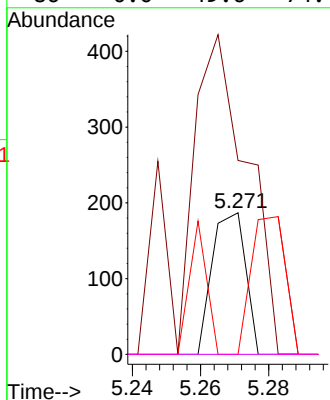
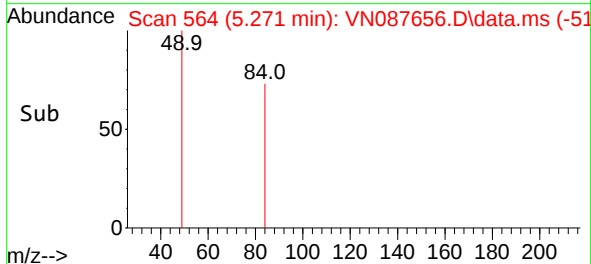


#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

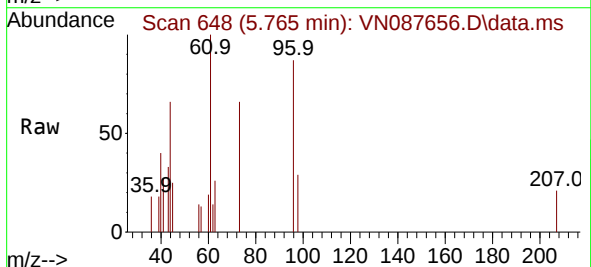
Instrument :
MSVOA_N
ClientSampleId :



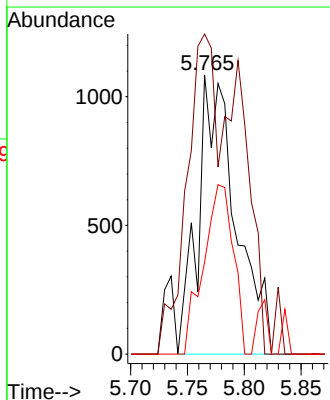
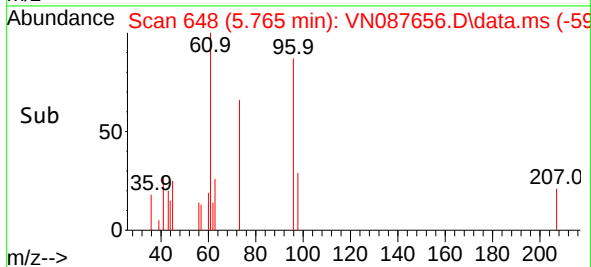
Tgt Ion:	84	Resp:	127
Ion	Ratio	Lower	Upper
84	100		
49	136.9	103.4	155.2
51	0.0	33.8	50.8#
86	0.0	49.6	74.4#

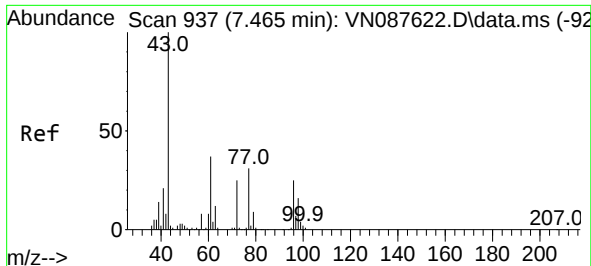


#21
trans-1,2-Dichloroethene
Concen: 0.828 ug/l
RT: 5.765 min Scan# 648
Delta R.T. -0.012 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40



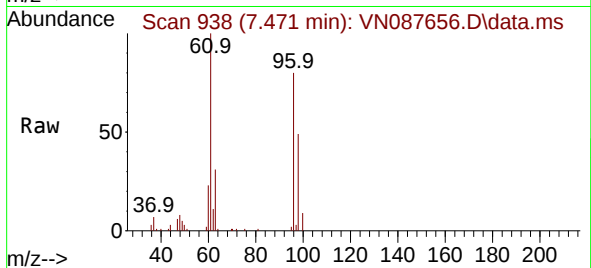
Tgt Ion:	96	Resp:	2522
Ion	Ratio	Lower	Upper
96	100		
61	93.5	118.0	177.0#
98	32.9	50.0	75.0#



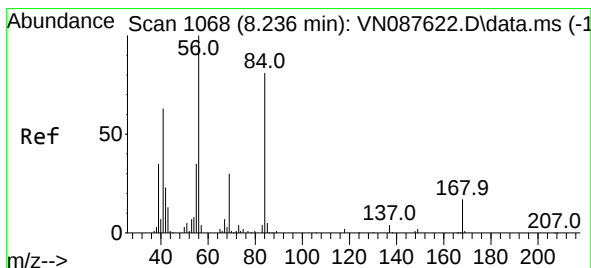
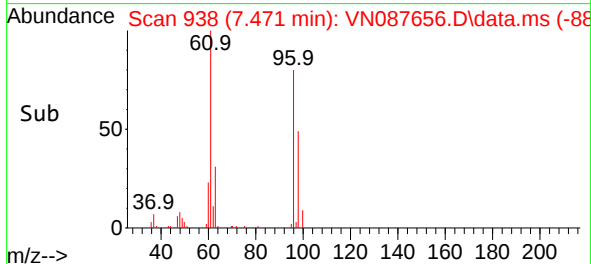
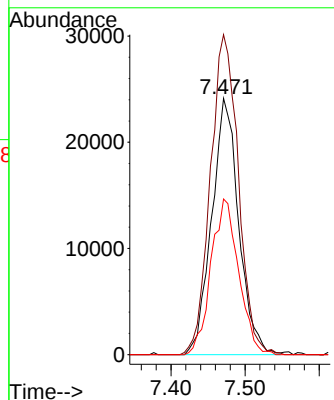


#27
 cis-1,2-Dichloroethene
 Concen: 16.760 ug/l
 RT: 7.471 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VN087656.D
 Acq: 25 Aug 2025 14:40

Instrument :
 MSVOA_N
 ClientSampleId :

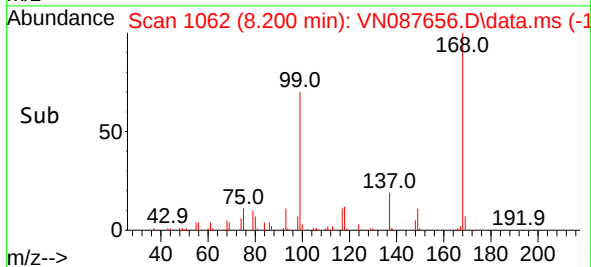
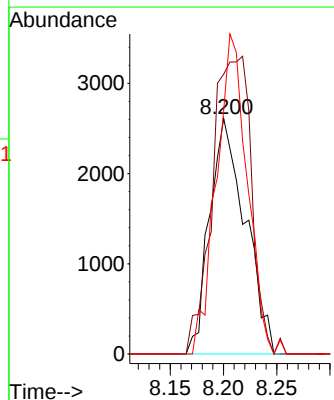
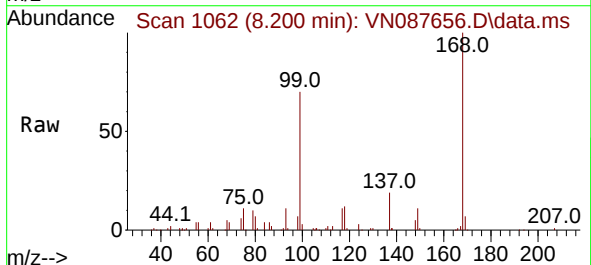


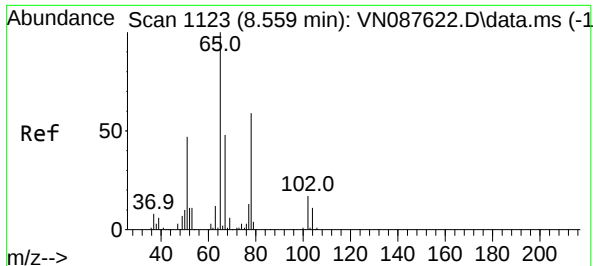
Tgt Ion:	96	Resp:	61049
Ion	Ratio	Lower	Upper
96	100		
61	129.5	0.0	301.8
98	62.2	0.0	126.2



#31
 Cyclohexane
 Concen: 1.210 ug/l
 RT: 8.200 min Scan# 1062
 Delta R.T. -0.035 min
 Lab File: VN087656.D
 Acq: 25 Aug 2025 14:40

Tgt Ion:	56	Resp:	6080
Ion	Ratio	Lower	Upper
56	100		
69	118.9	23.7	35.5#
84	103.6	64.7	97.1#





#33

1,2-Dichloroethane-d4

Concen: 56.491 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087656.D

Acq: 25 Aug 2025 14:40

Instrument :

MSVOA_N

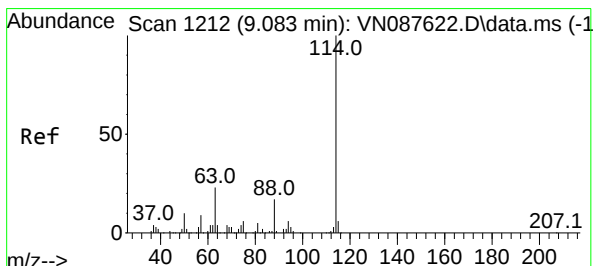
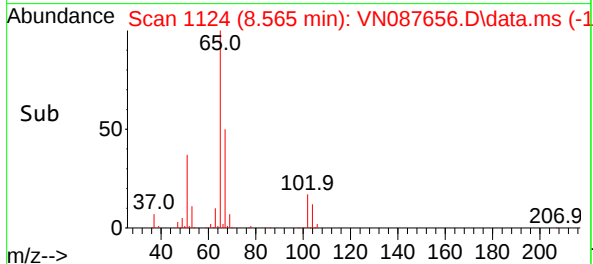
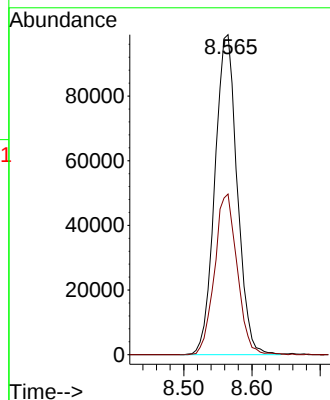
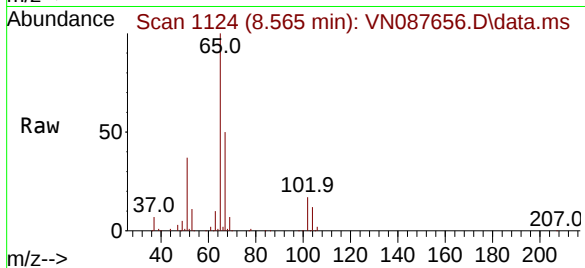
ClientSampleId :

Tgt Ion: 65 Resp: 225694

Ion Ratio Lower Upper

65 100

67 50.8 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087656.D

Acq: 25 Aug 2025 14:40

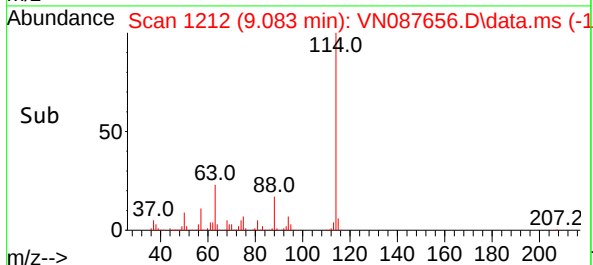
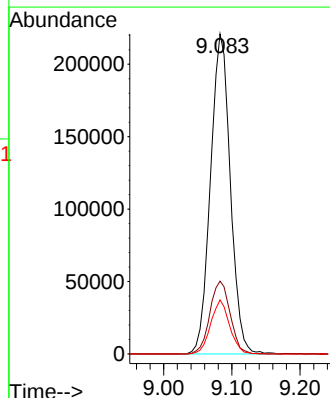
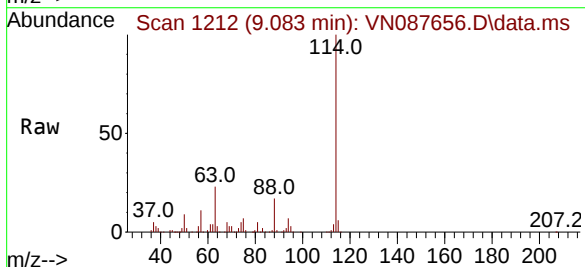
Tgt Ion: 114 Resp: 447255

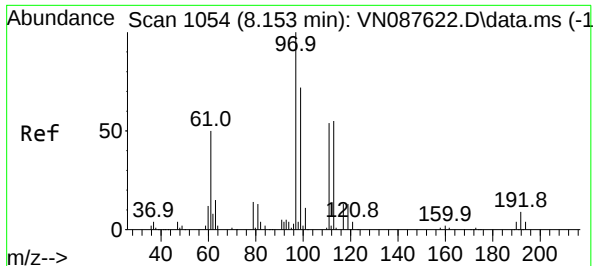
Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.2

88 16.9 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.060 ug/l

RT: 8.153 min Scan# 1062

Delta R.T. -0.000 min

Lab File: VN087656.D

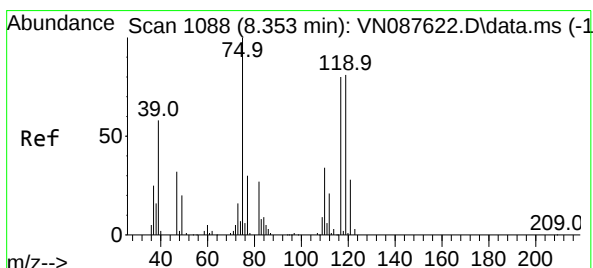
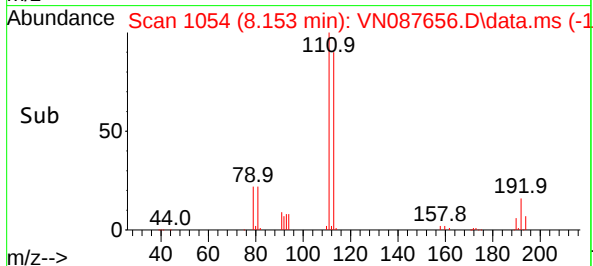
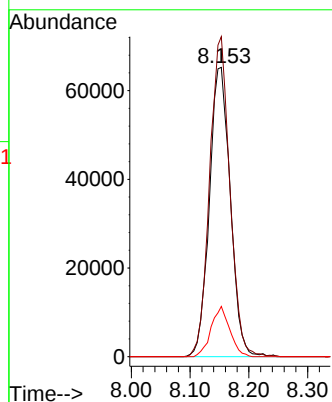
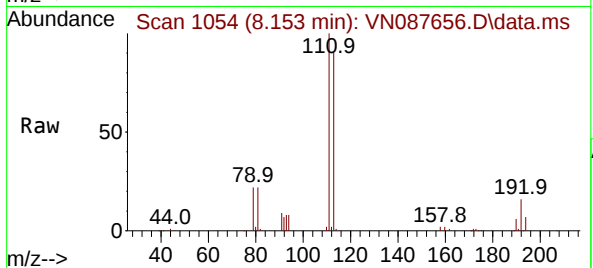
Acq: 25 Aug 2025 14:40

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	113	Resp:	161652
Ion	Ratio	Lower	Upper
113	100		
111	106.7	82.8	124.2
192	15.5	12.8	19.2



#36

1,1-Dichloropropene

Concen: 3.942 ug/l

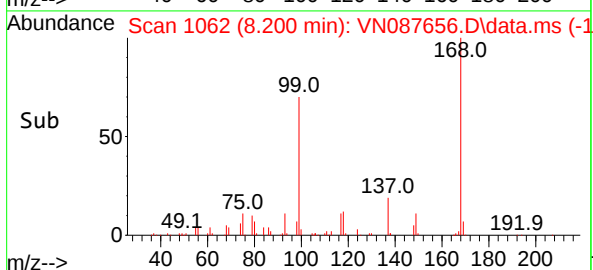
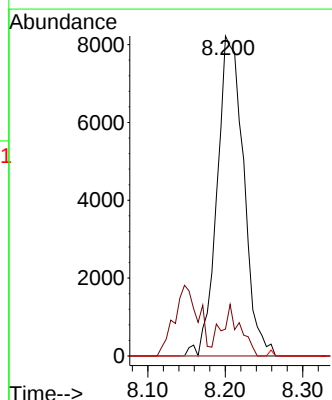
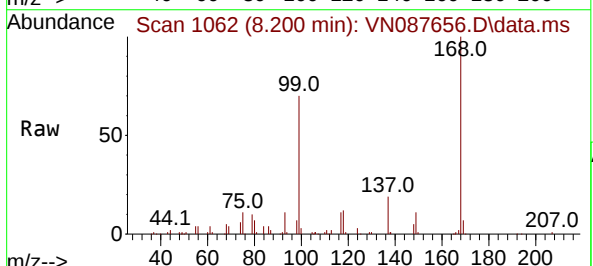
RT: 8.200 min Scan# 1062

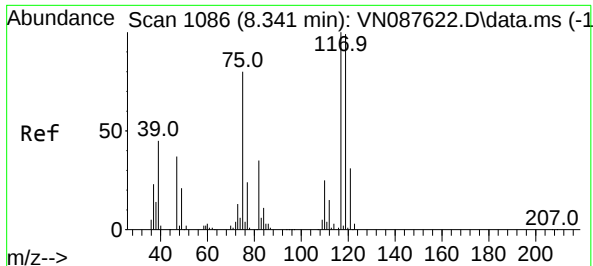
Delta R.T. -0.153 min

Lab File: VN087656.D

Acq: 25 Aug 2025 14:40

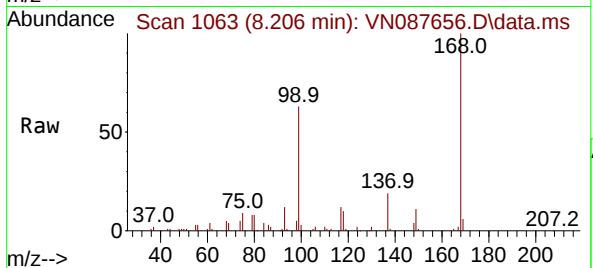
Tgt Ion:	75	Resp:	19528
Ion	Ratio	Lower	Upper
75	100		
110	11.3	15.9	47.6#
77	0.0	24.4	36.6#



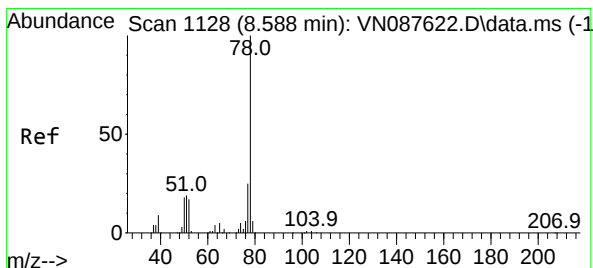
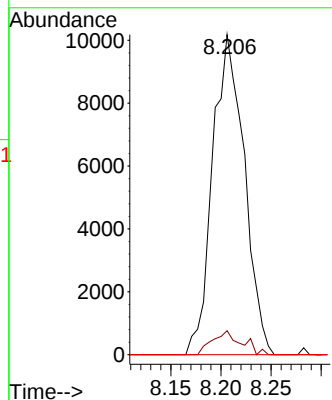
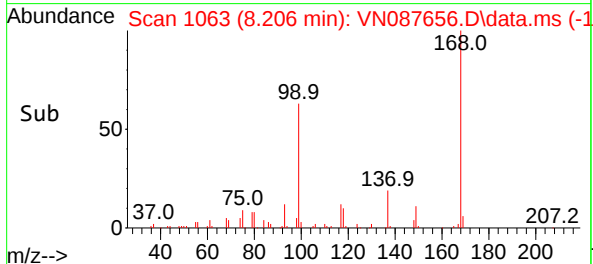


#38
Carbon Tetrachloride
Concen: 4.583 ug/l
RT: 8.206 min Scan# 1103
Delta R.T. -0.135 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :

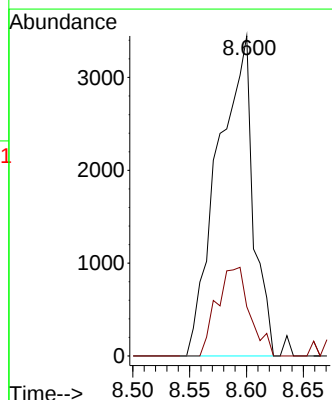
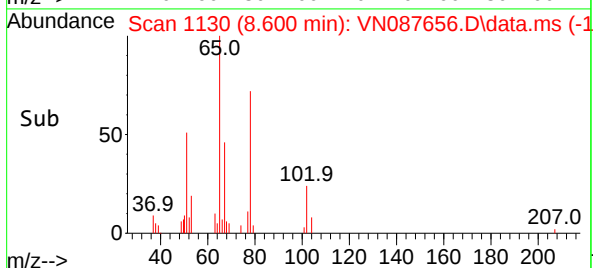
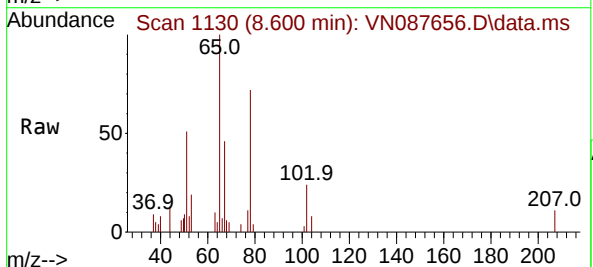


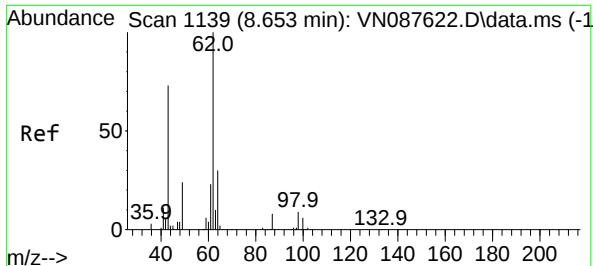
Tgt Ion:117 Resp: 22415
Ion Ratio Lower Upper
117 100
119 7.5 79.0 118.6#
121 0.0 25.0 37.6#



#40
Benzene
Concen: 0.489 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.012 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Tgt Ion: 78 Resp: 7426
Ion Ratio Lower Upper
78 100
77 15.4 19.7 29.5#





#42

1,2-Dichloroethane

Concen: 0.844 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.000 min

Lab File: VN087656.D

Acq: 25 Aug 2025 14:40

Instrument :

MSVOA_N

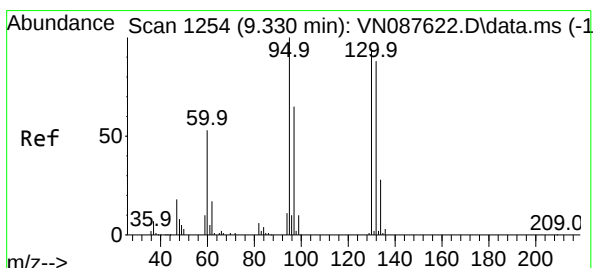
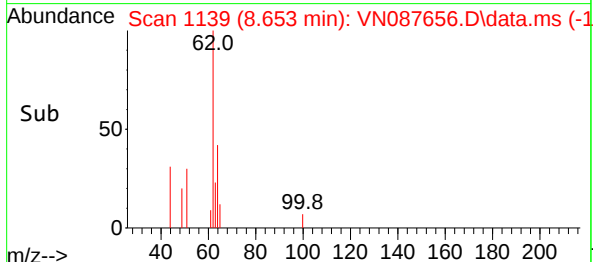
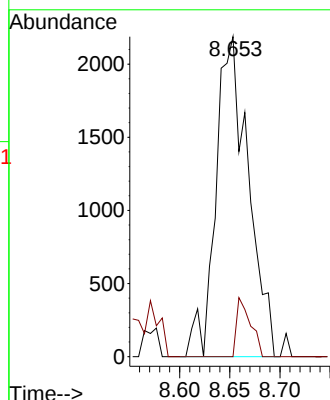
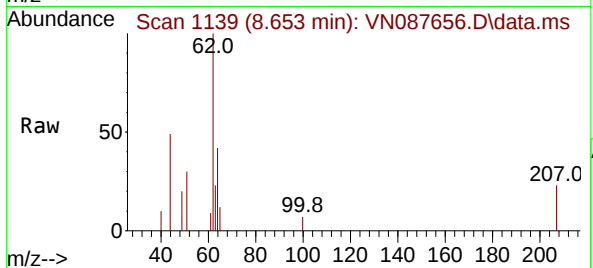
ClientSampleId :

Tgt Ion: 62 Resp: 4930

Ion Ratio Lower Upper

62 100

98 7.9 0.0 17.4



#44

Trichloroethene

Concen: 24.791 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.006 min

Lab File: VN087656.D

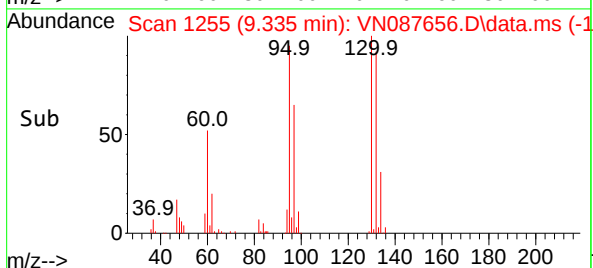
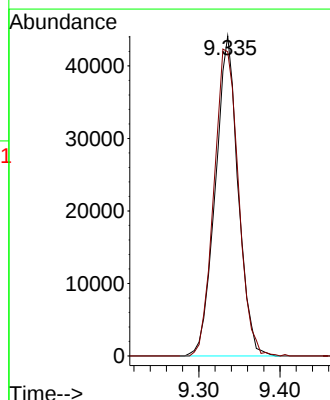
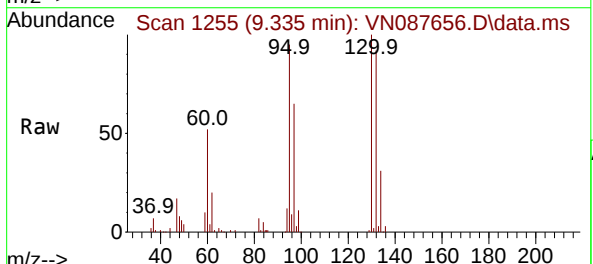
Acq: 25 Aug 2025 14:40

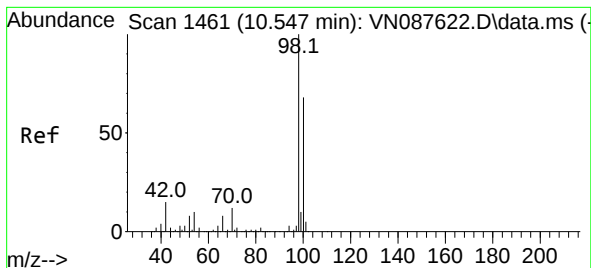
Tgt Ion:130 Resp: 86002

Ion Ratio Lower Upper

130 100

95 95.0 0.0 212.0

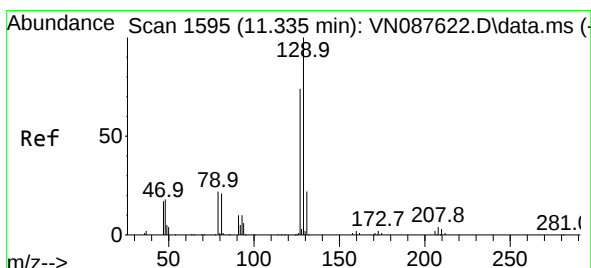
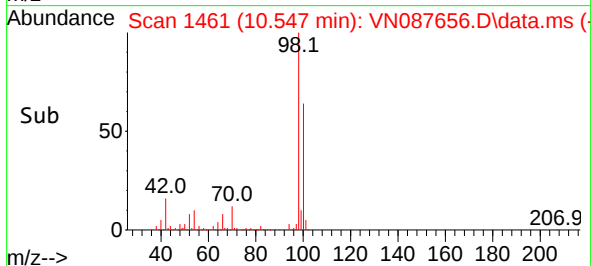
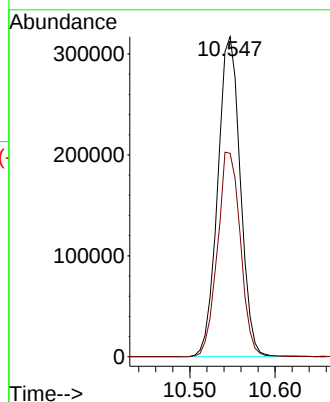
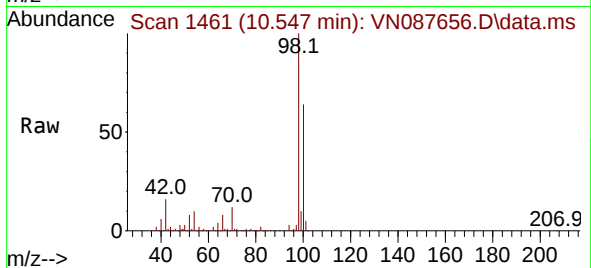




#50
Toluene-d8
Concen: 48.371 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

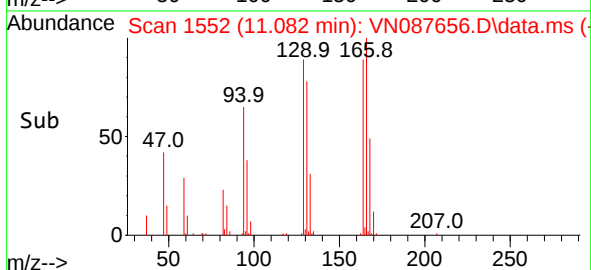
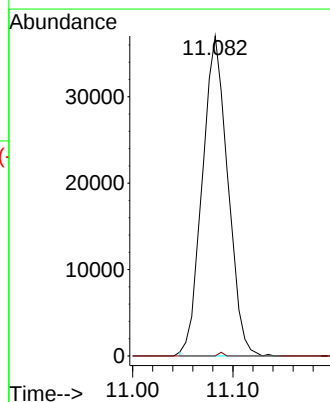
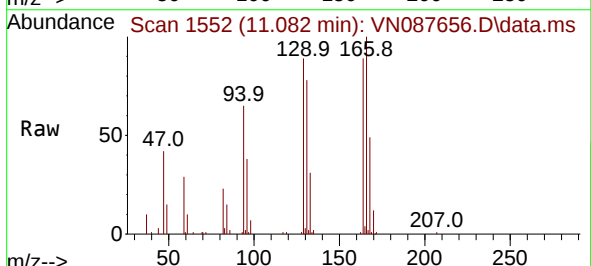
Instrument :
MSVOA_N
ClientSampleId :

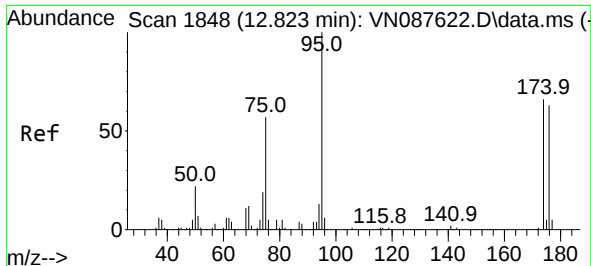
Tgt Ion: 98 Resp: 584621
Ion Ratio Lower Upper
98 100
100 65.1 52.8 79.2



#60
Dibromochloromethane
Concen: 15.482 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.253 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Tgt Ion:129 Resp: 65369
Ion Ratio Lower Upper
129 100
127 0.2 39.1 117.3#

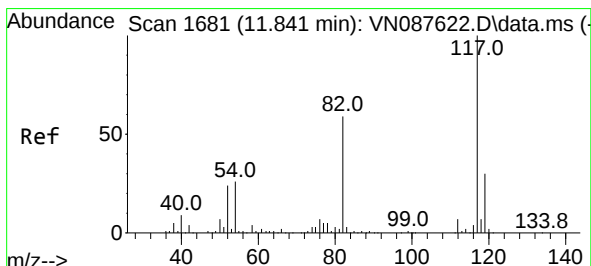
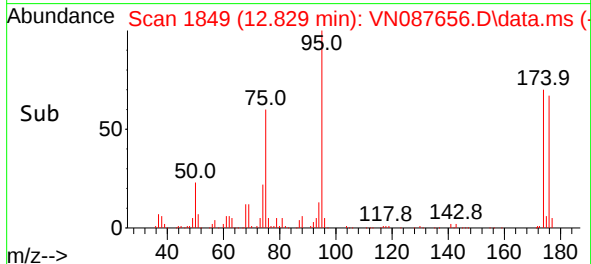
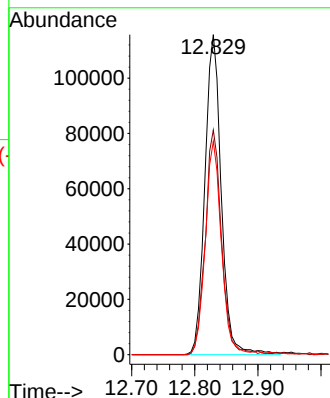
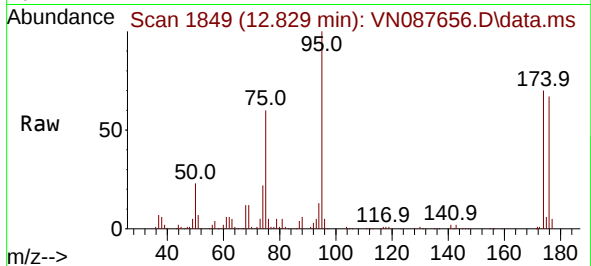




#62
4-Bromofluorobenzene
Concen: 48.618 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

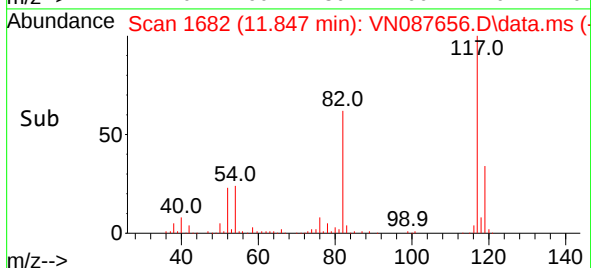
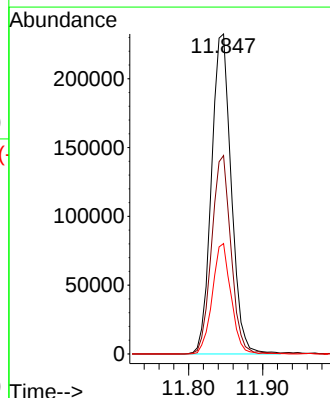
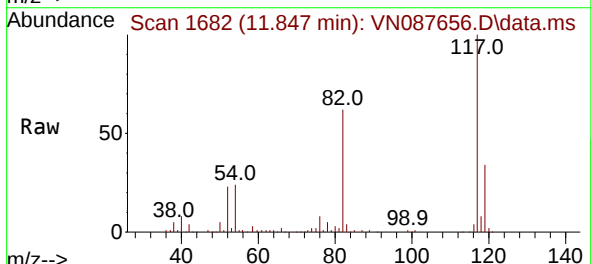
Instrument :
MSVOA_N
ClientSampleId :

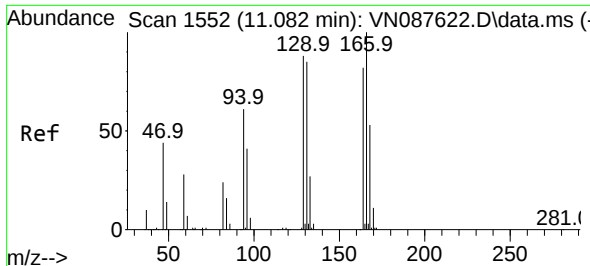
Tgt Ion: 95 Resp: 208972
Ion Ratio Lower Upper
95 100
174 70.2 0.0 138.4
176 65.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

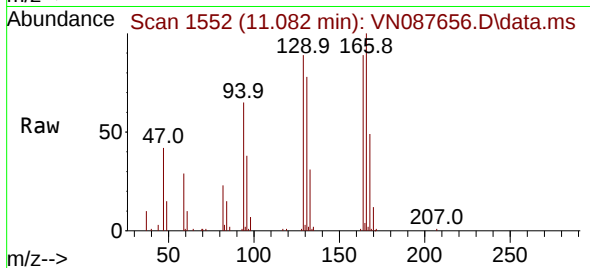
Tgt Ion: 117 Resp: 431712
Ion Ratio Lower Upper
117 100
82 62.0 47.4 71.2
119 34.5 24.3 36.5



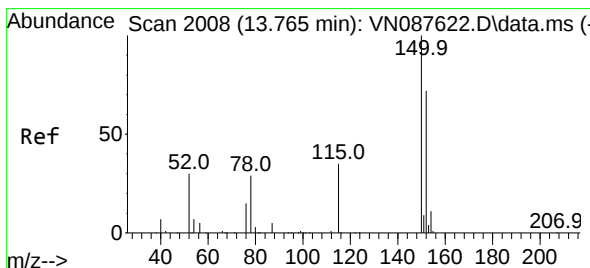
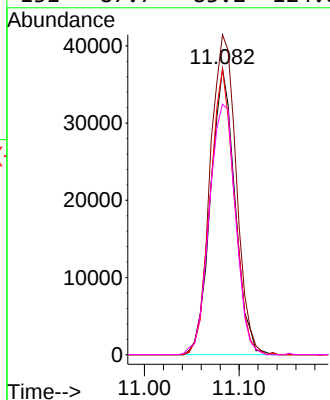
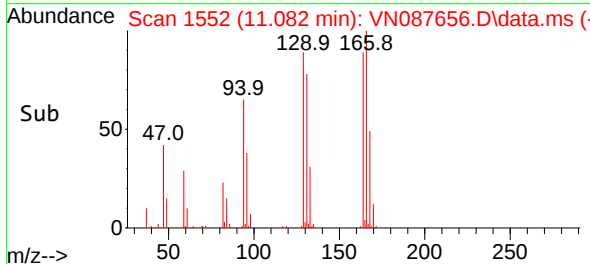


#64
Tetrachloroethene
Concen: 22.035 ug/l
RT: 11.082 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

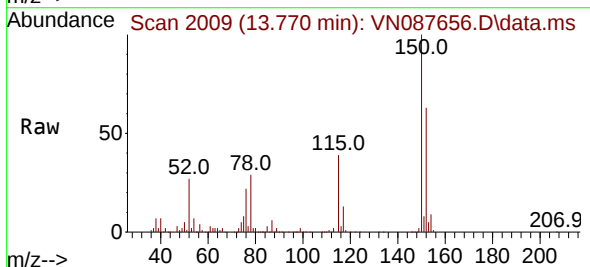
Instrument :
MSVOA_N
ClientSampleId :



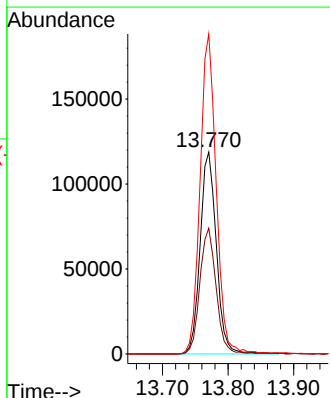
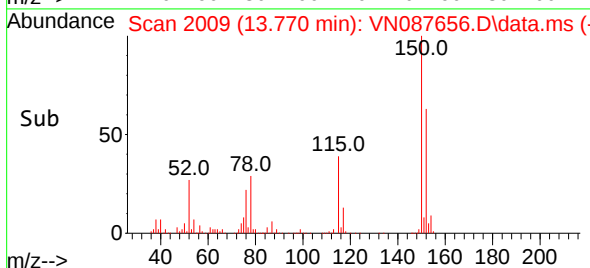
Tgt Ion:164 Resp: 65998
Ion Ratio Lower Upper
164 100
166 111.9 97.7 146.5
129 100.0 85.9 128.9
131 87.7 83.2 124.8

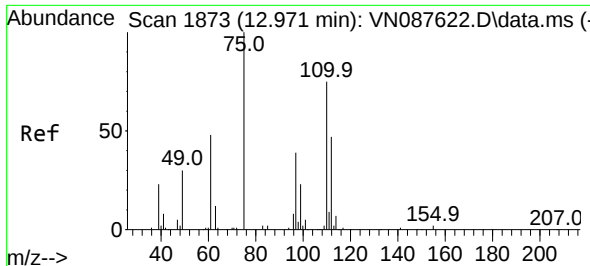


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40



Tgt Ion:152 Resp: 205053
Ion Ratio Lower Upper
152 100
115 62.7 32.3 96.8
150 158.2 0.0 351.0

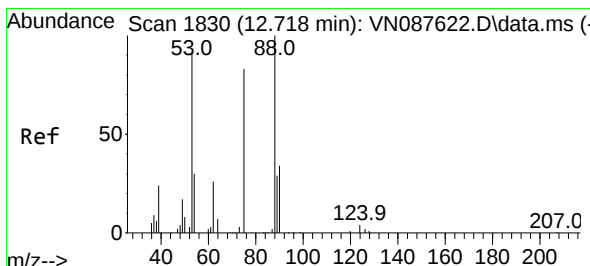
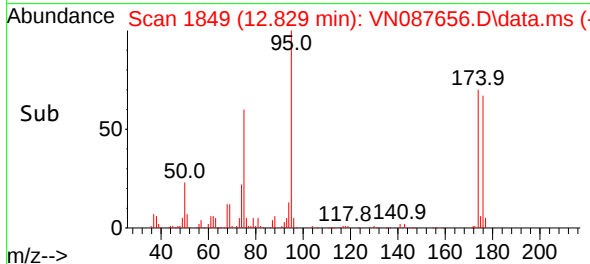
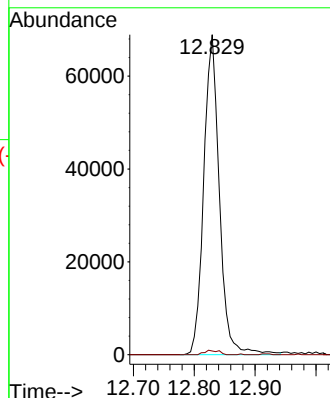
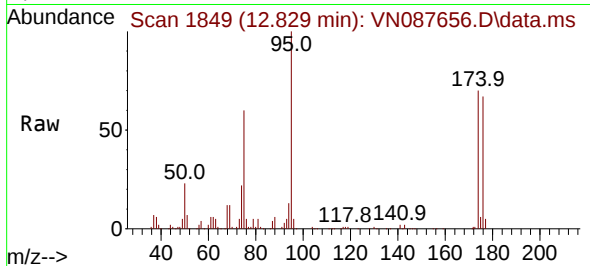




#76
1,2,3-Trichloropropane
Concen: 25.540 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

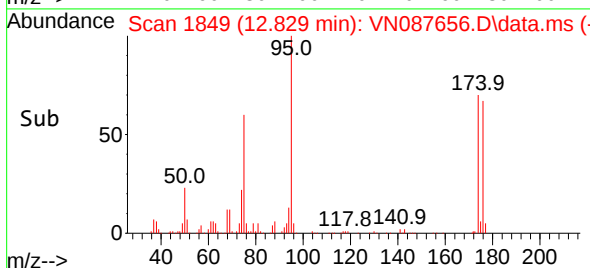
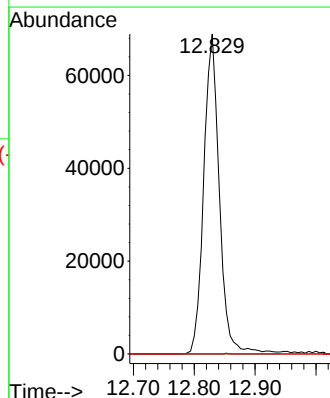
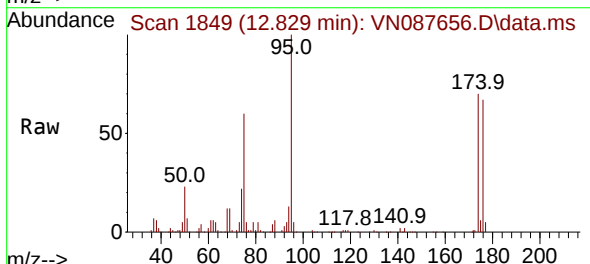
Instrument :
MSVOA_N
ClientSampleId :

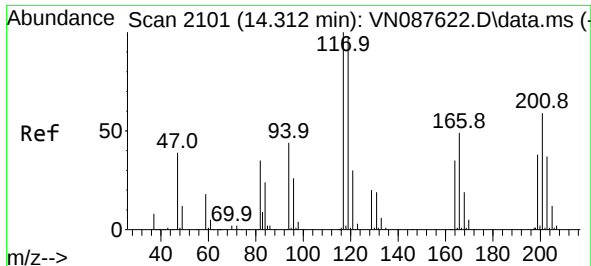
Tgt Ion: 75 Resp: 122814
Ion Ratio Lower Upper
75 100
77 1.3 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.616 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Tgt Ion: 75 Resp: 122814
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#

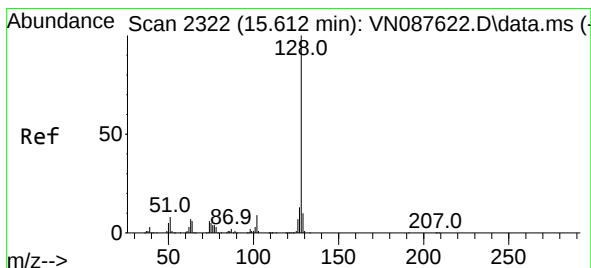
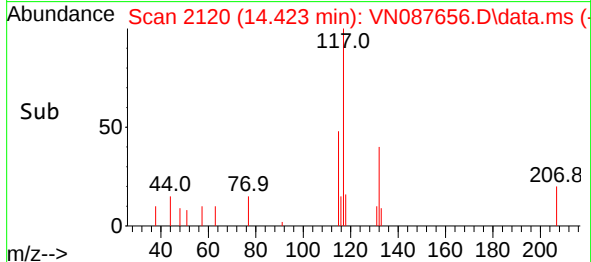
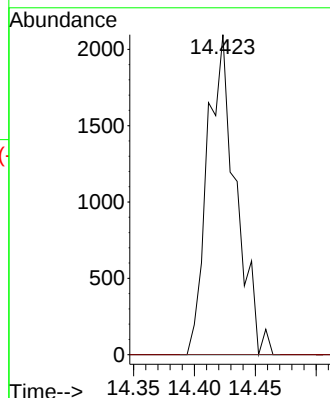
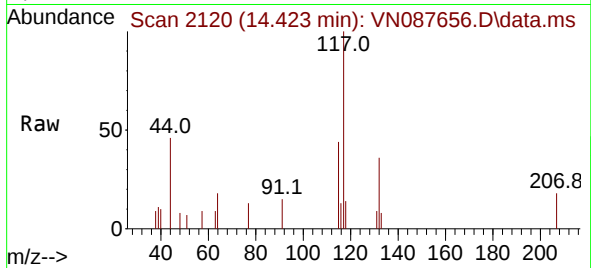




#90
Hexachloroethane
Concen: 1.248 ug/l
RT: 14.423 min Scan# 2101
Delta R.T. 0.112 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:117 Resp: 3414
Ion Ratio Lower Upper
117 100
201 0.0 29.1 87.4#



#95
Naphthalene
Concen: 0.372 ug/l
RT: 15.623 min Scan# 2324
Delta R.T. 0.012 min
Lab File: VN087656.D
Acq: 25 Aug 2025 14:40

Tgt Ion:128 Resp: 5771
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 7.3 8.6 12.8#

