

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081525\
 Data File : VN087579.D
 Acq On : 15 Aug 2025 14:14
 Operator : JC\MD
 Sample : Q2821-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:43:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

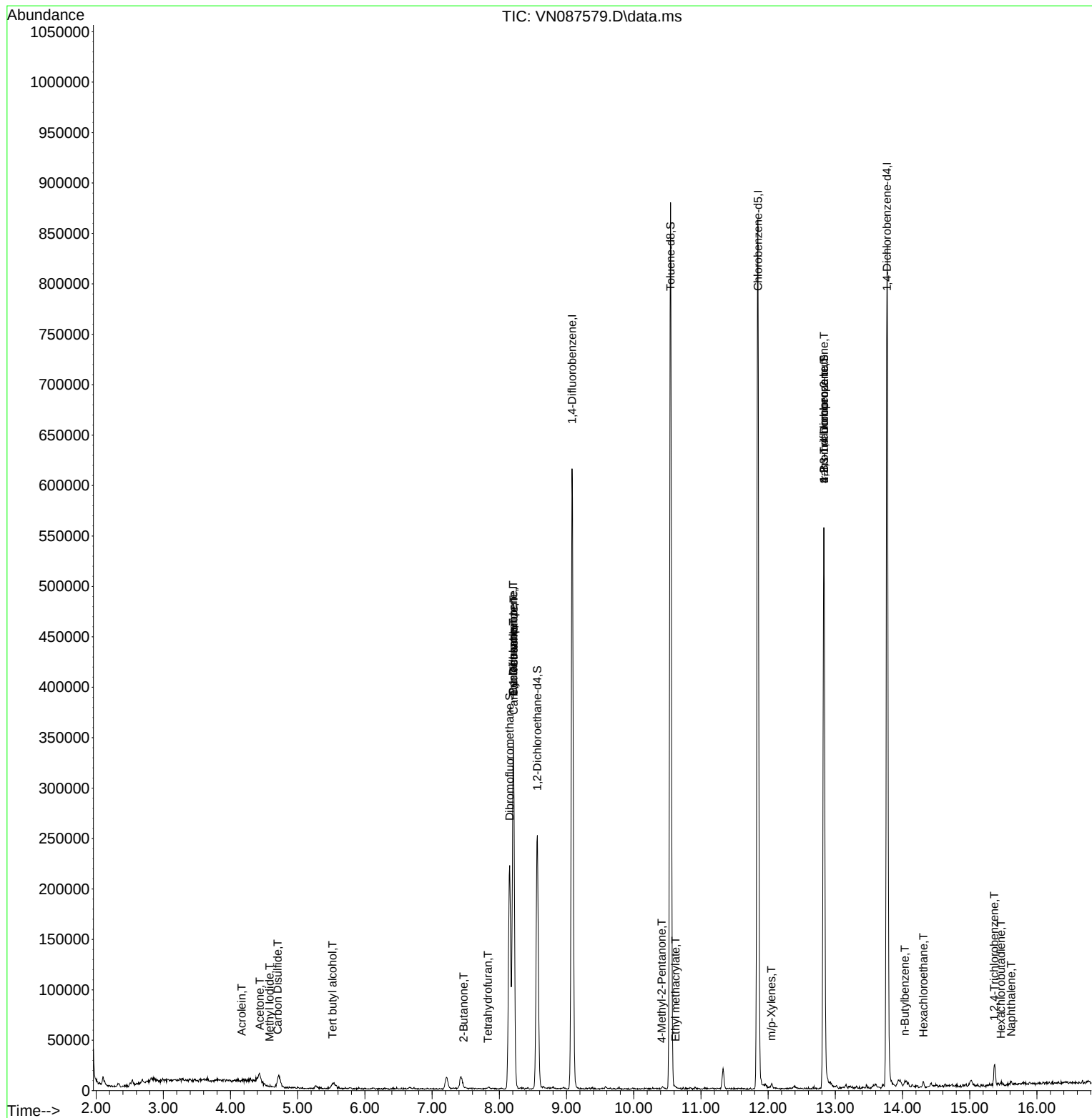
Internal Standards						
1) Pentafluorobenzene	8.206	168	224974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	500567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	458871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	210565	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	217740	57.040	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.080%			
35) Dibromofluoromethane	8.153	113	158232	45.826	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.660%			
50) Toluene-d8	10.547	98	570275	46.300	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.600%			
62) 4-Bromofluorobenzene	12.829	95	196085	43.091	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 86.180%			
Target Compounds						Qvalue
10) Methyl Iodide	4.583	142	157	5.691	ug/l #	40
11) Tert butyl alcohol	5.518	59	4176	5.761	ug/l #	77
13) Acrolein	4.165	56	486	0.835	ug/l #	61
16) Acetone	4.436	43	15077	8.424	ug/l	97
17) Carbon Disulfide	4.700	76	3700	0.486	ug/l #	82
20) Methylene Chloride	5.271	84	1321	Below Cal	#	66
25) 2-Butanone	7.471	43	737	0.267	ug/l #	51
29) Tetrahydrofuran	7.830	42	568	0.316	ug/l #	63
31) Cyclohexane	8.206	56	7171	1.528	ug/l #	1
36) 1,1-Dichloropropene	8.206	75	22985	5.038	ug/l #	52
38) Carbon Tetrachloride	8.212	117	26611	5.295	ug/l #	14
51) 4-Methyl-2-Pentanone	10.418	43	1601	0.247	ug/l #	37
56) Ethyl methacrylate	10.624	69	79	0.648	ug/l #	2
68) m/p-Xylenes	12.047	106	1509	0.238	ug/l	98
76) 1,2,3-Trichloropropane	12.829	75	115431	24.447	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	115431	66.890	ug/l #	8
89) n-Butylbenzene	14.035	91	4572	0.421	ug/l	71
90) Hexachloroethane	14.312	117	505	0.209	ug/l #	17
93) 1,2,4-Trichlorobenzene	15.365	180	866	0.231	ug/l #	24
94) Hexachlorobutadiene	15.464	225	383	0.275	ug/l #	39
95) Naphthalene	15.617	128	2997	0.225	ug/l #	87

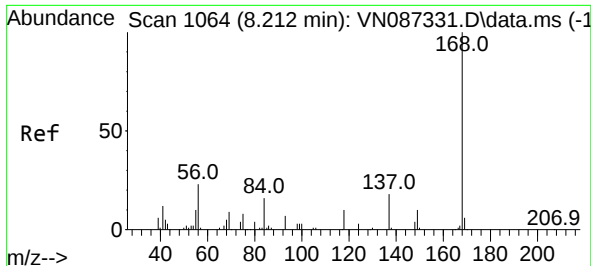
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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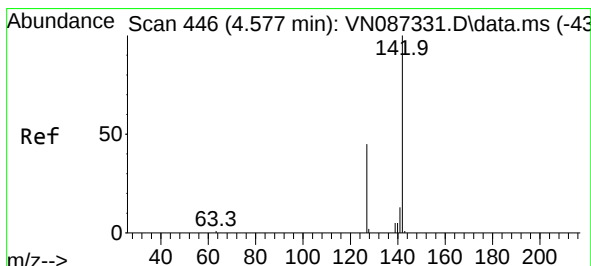
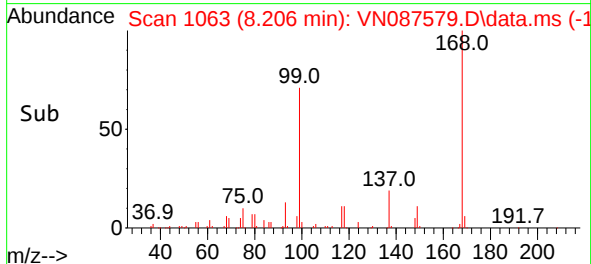
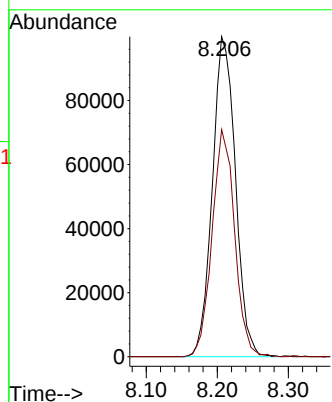
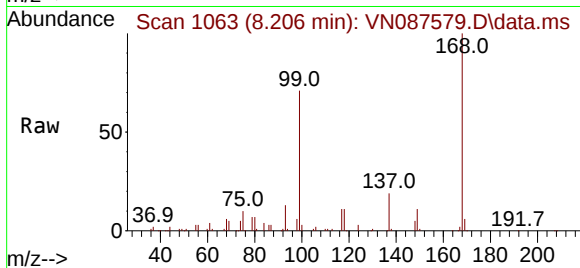




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

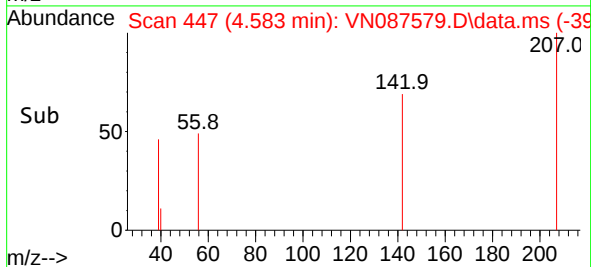
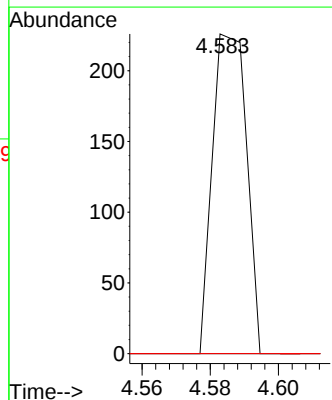
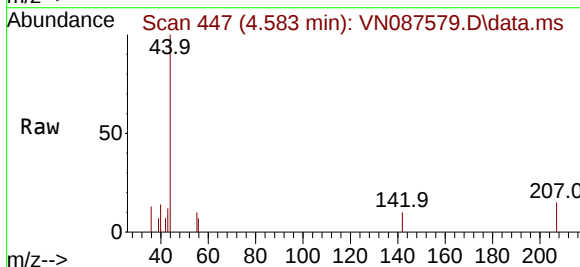
Instrument :
MSVOA_N
ClientSampleId :

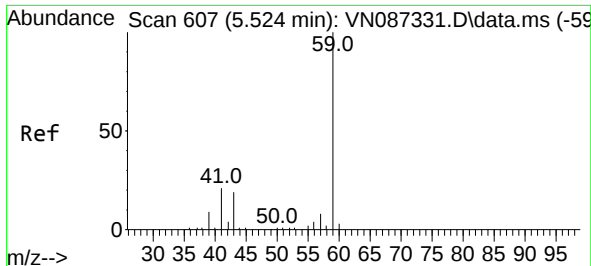
Tgt Ion:168 Resp: 224974
Ion Ratio Lower Upper
168 100
99 70.9 47.9 71.9



#10
Methyl Iodide
Concen: 5.691 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

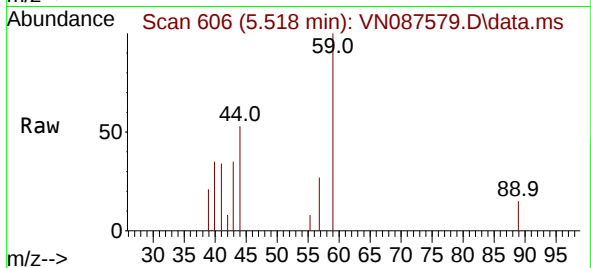
Tgt Ion:142 Resp: 157
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



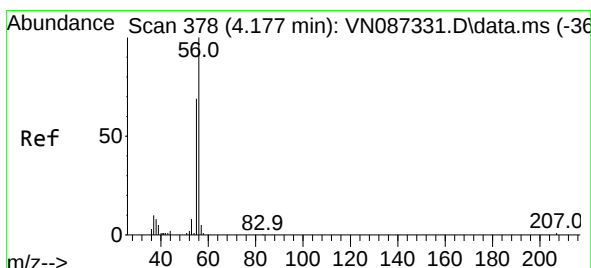
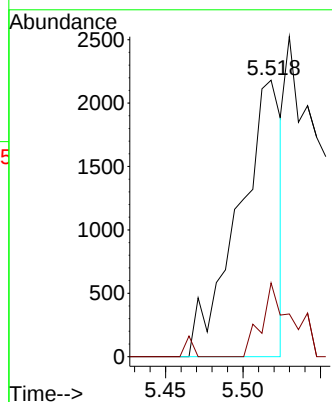
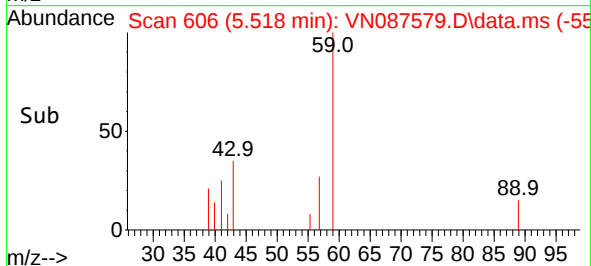


#11
Tert butyl alcohol
Concen: 5.761 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

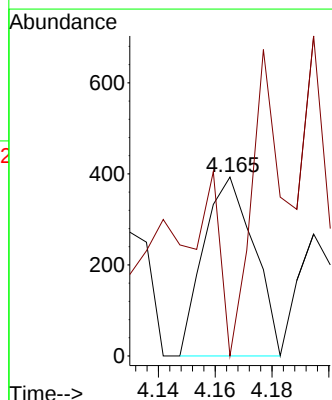
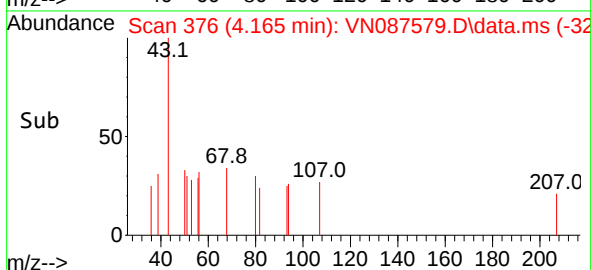
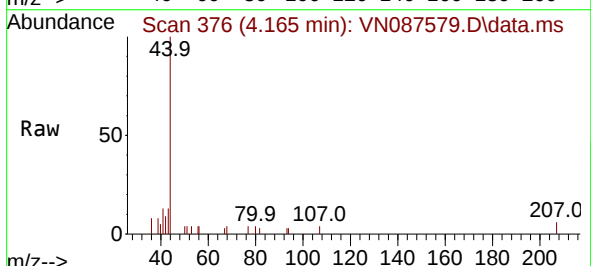


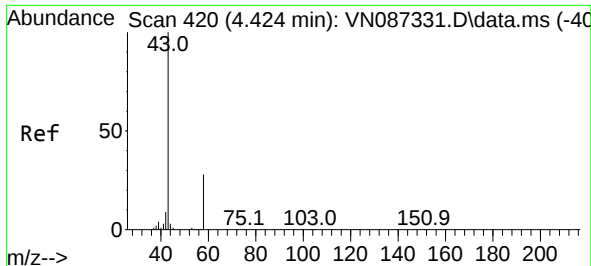
Tgt Ion: 59 Resp: 4176
Ion Ratio Lower Upper
59 100
57 19.0 8.3 12.5#



#13
Acrolein
Concen: 0.835 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Tgt Ion: 56 Resp: 486
Ion Ratio Lower Upper
56 100
55 102.7 56.2 84.4#





#16

Acetone

Concen: 8.424 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

Instrument :

MSVOA_N

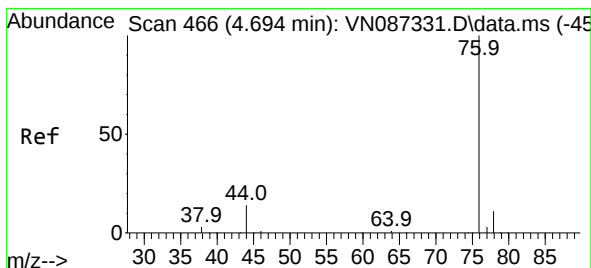
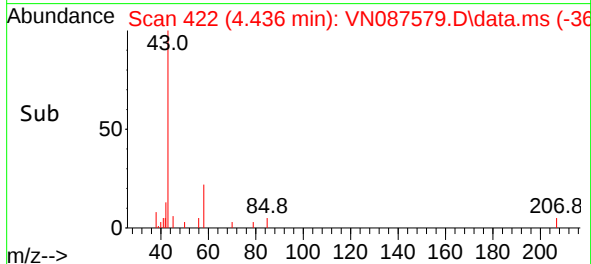
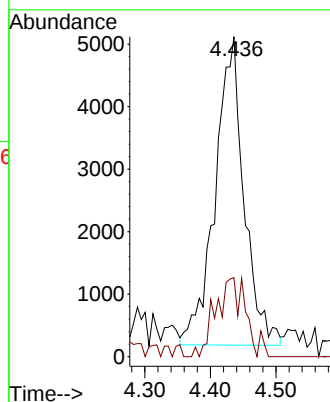
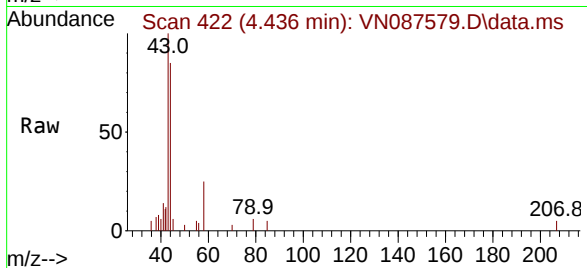
ClientSampleId :

Tgt Ion: 43 Resp: 15077

Ion Ratio Lower Upper

43 100

58 26.2 22.3 33.5



#17

Carbon Disulfide

Concen: 0.486 ug/l

RT: 4.700 min Scan# 467

Delta R.T. 0.006 min

Lab File: VN087579.D

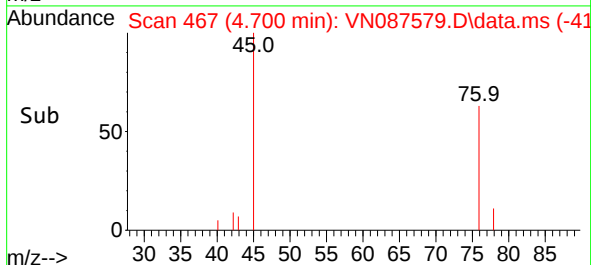
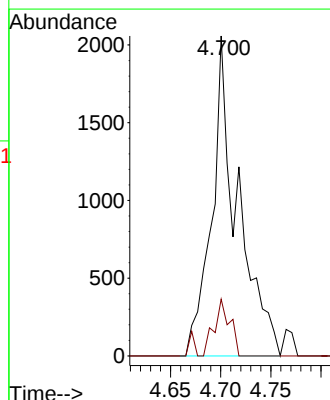
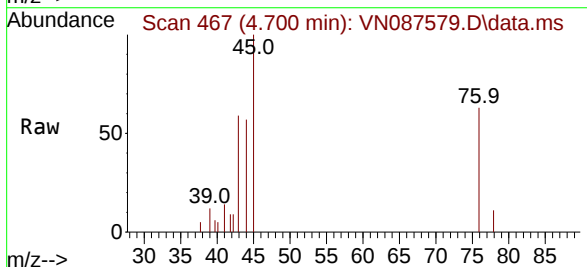
Acq: 15 Aug 2025 14:14

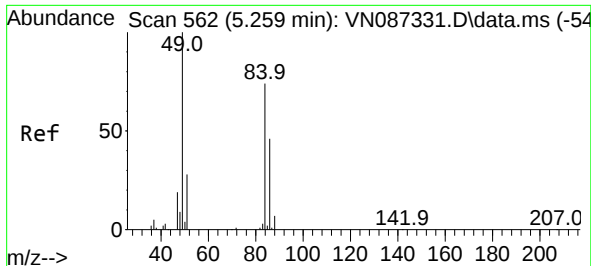
Tgt Ion: 76 Resp: 3700

Ion Ratio Lower Upper

76 100

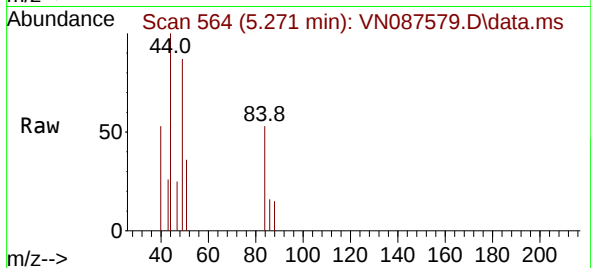
78 17.7 8.6 13.0#



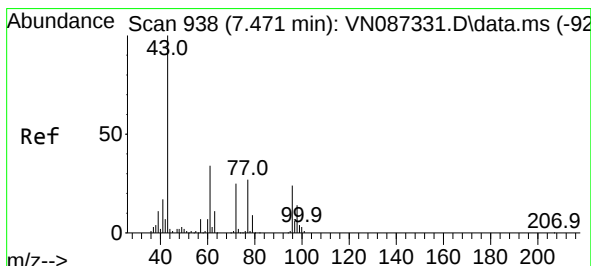
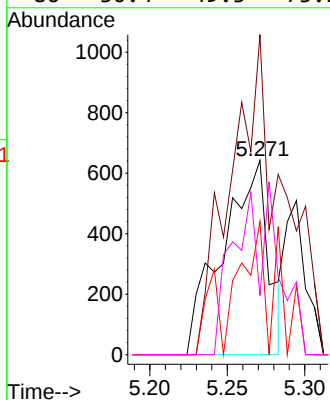
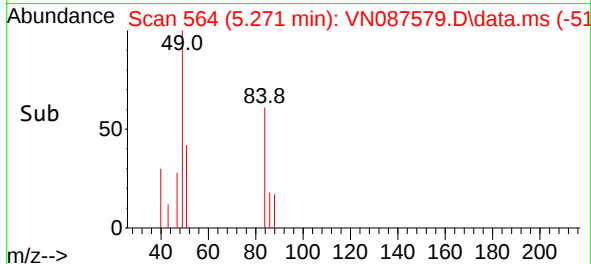


#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

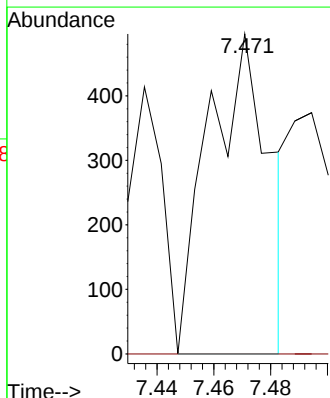
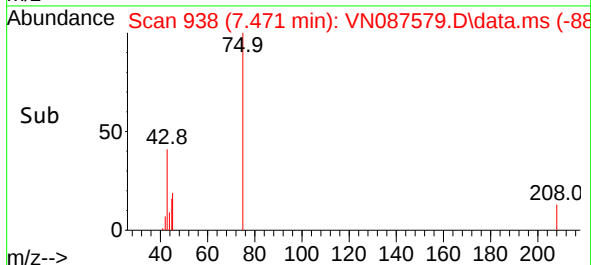
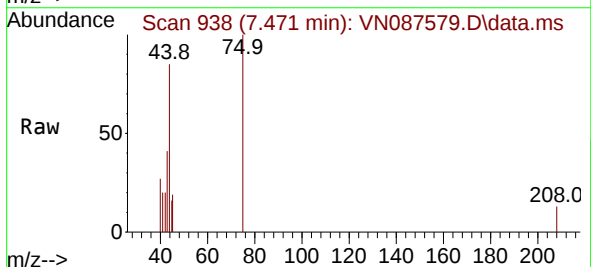


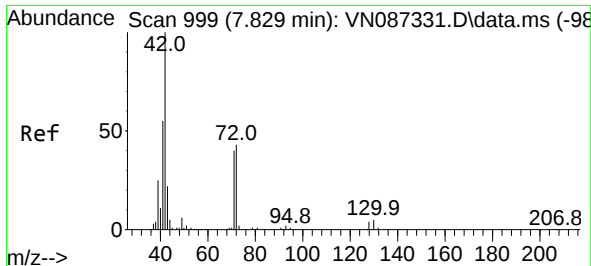
Tgt Ion: 84 Resp: 1321
Ion Ratio Lower Upper
84 100
49 164.8 107.5 161.3#
51 68.5 30.2 45.2#
86 30.4 49.3 73.9#



#25
2-Butanone
Concen: 0.267 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Tgt Ion: 43 Resp: 737
Ion Ratio Lower Upper
43 100
72 0.0 19.6 29.4#





#29

Tetrahydrofuran

Concen: 0.316 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

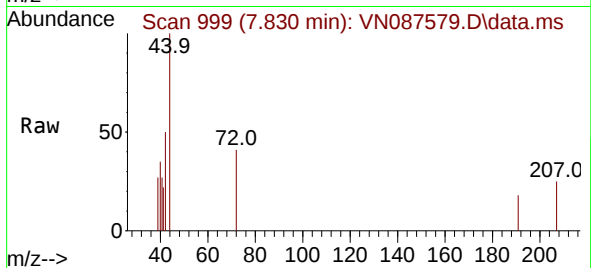
Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

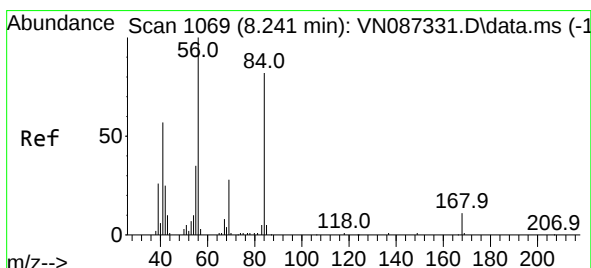
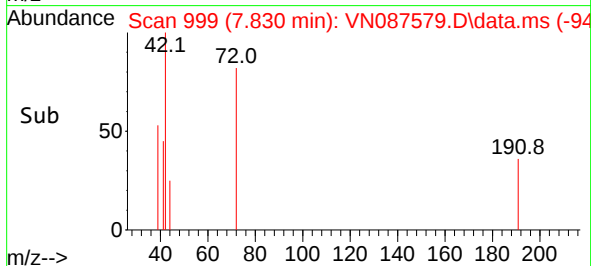
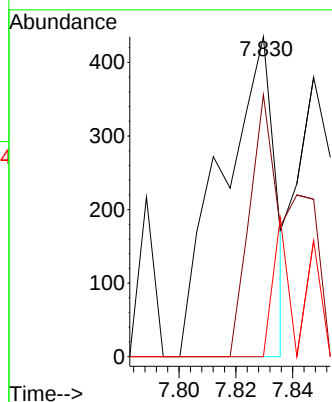
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	568
Ion Ratio	Lower	Upper	
42	100		
72	70.4	33.4	50.0#
71	21.5	31.2	46.8#



#31

Cyclohexane

Concen: 1.528 ug/l

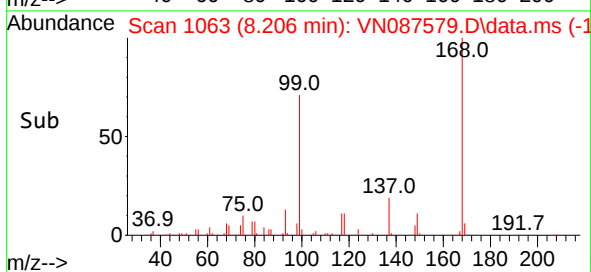
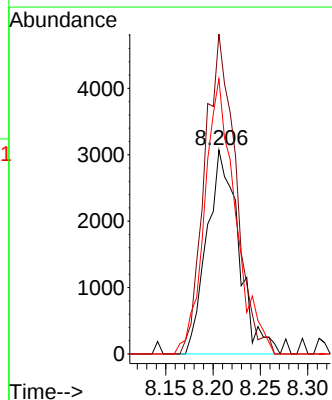
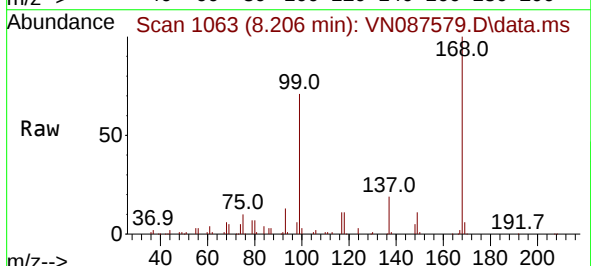
RT: 8.206 min Scan# 1063

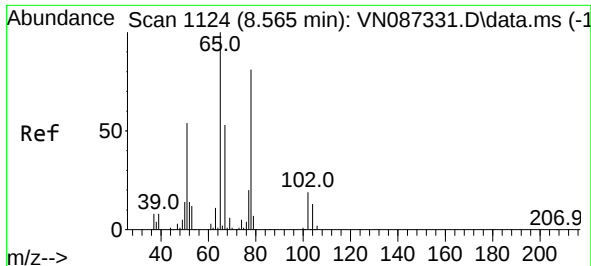
Delta R.T. -0.035 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

Tgt Ion:	56	Resp:	7171
Ion Ratio	Lower	Upper	
56	100		
69	156.8	22.7	34.1#
84	134.9	65.8	98.6#





#33

1,2-Dichloroethane-d4

Concen: 57.040 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

Instrument :

MSVOA_N

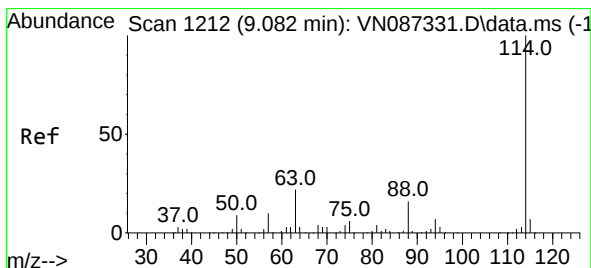
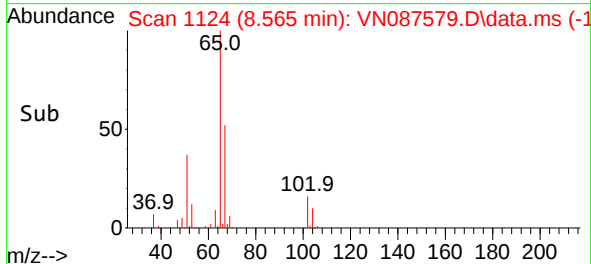
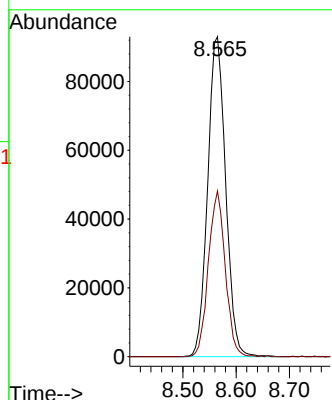
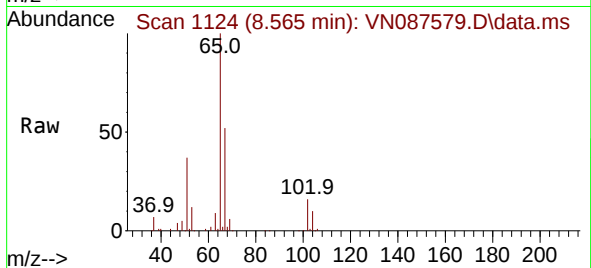
ClientSampleId :

Tgt Ion: 65 Resp: 217740

Ion Ratio Lower Upper

65 100

67 48.7 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.001 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

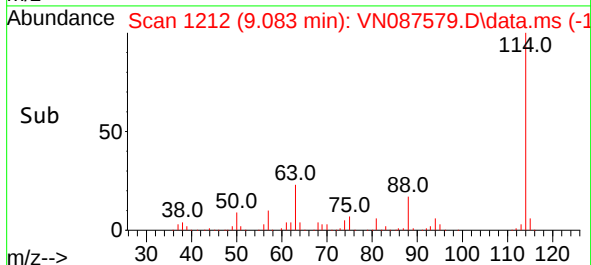
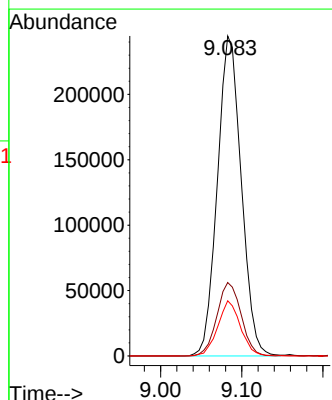
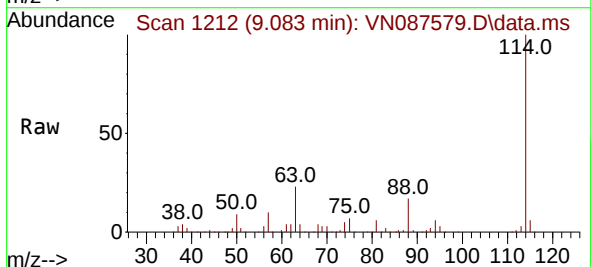
Tgt Ion: 114 Resp: 500567

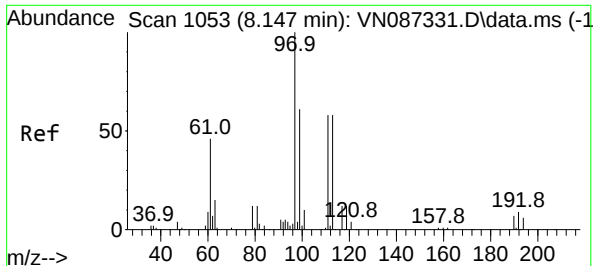
Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 17.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 45.826 ug/l

RT: 8.153 min Scan# 1063

Delta R.T. 0.006 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

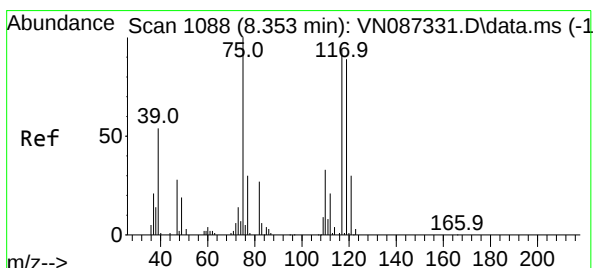
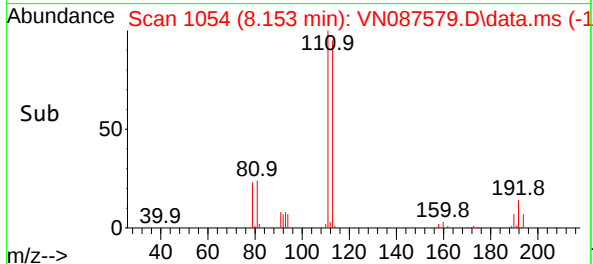
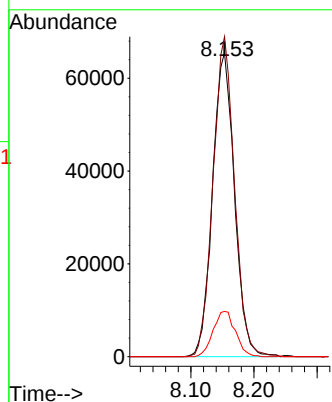
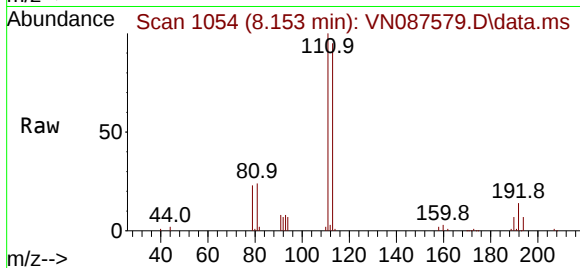
Tgt Ion:113 Resp: 158232

Ion Ratio Lower Upper

113 100

111 102.8 82.5 123.7

192 15.1 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.038 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

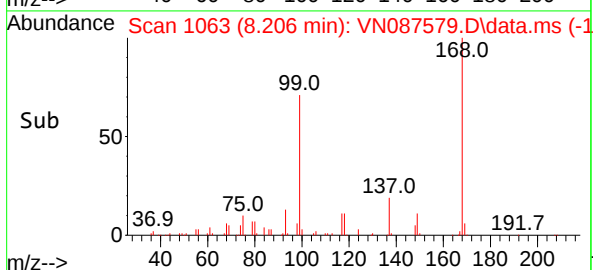
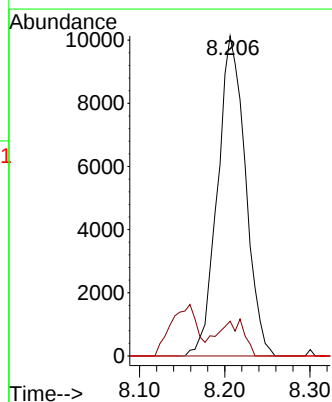
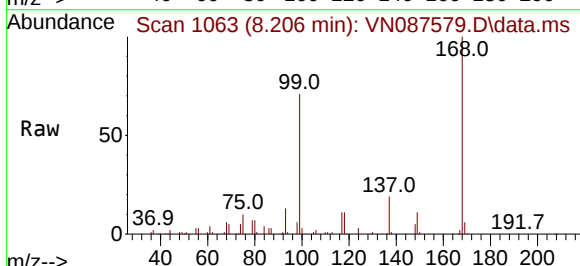
Tgt Ion: 75 Resp: 22985

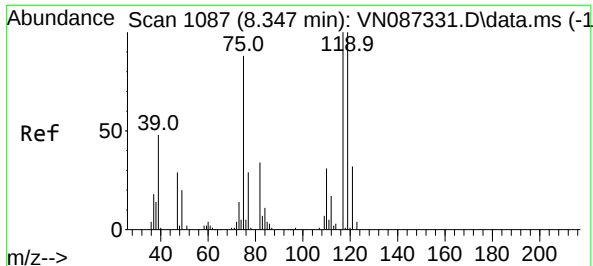
Ion Ratio Lower Upper

75 100

110 10.8 16.7 50.1#

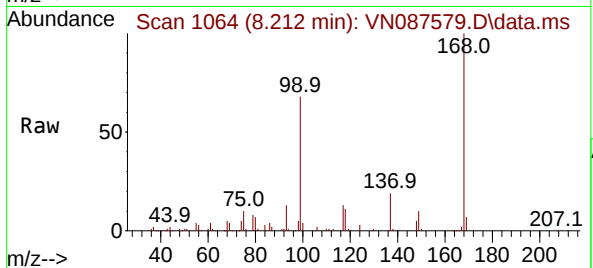
77 0.0 25.2 37.8#



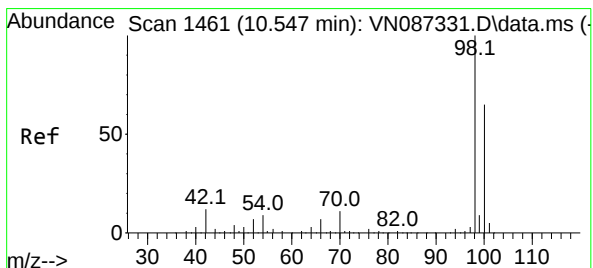
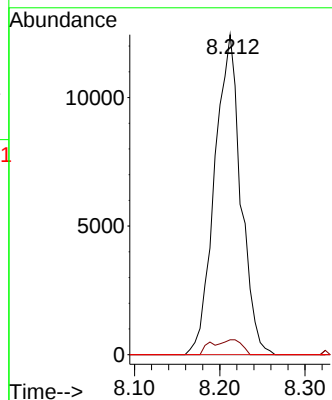
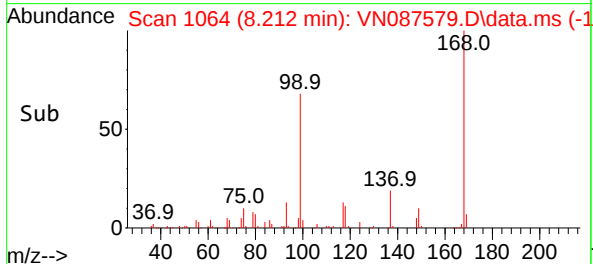


#38
Carbon Tetrachloride
Concen: 5.295 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :

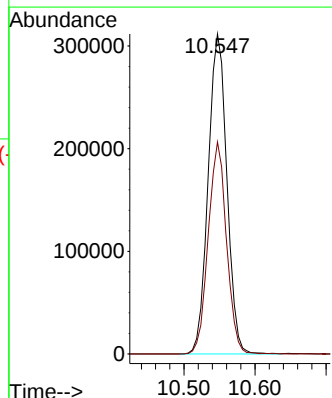
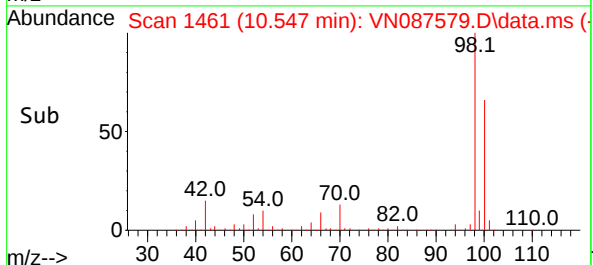
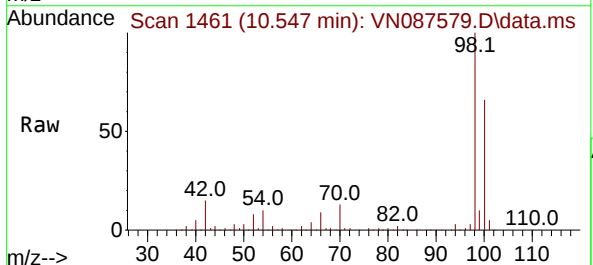


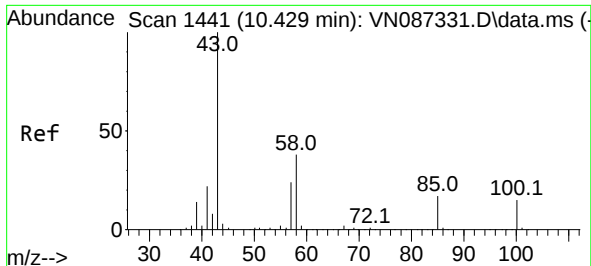
Tgt Ion:117 Resp: 26611
Ion Ratio Lower Upper
117 100
119 4.6 80.2 120.2#
121 0.0 25.4 38.2#



#50
Toluene-d8
Concen: 46.300 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Tgt Ion: 98 Resp: 570275
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 0.247 ug/l

RT: 10.418 min Scan# 1441

Delta R.T. -0.011 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

Instrument :

MSVOA_N

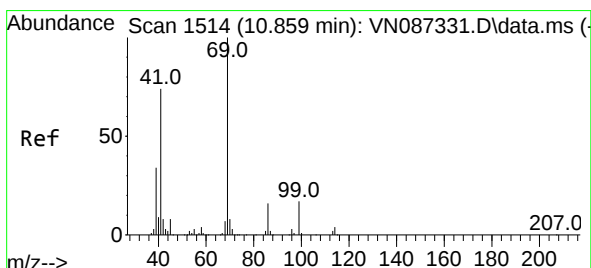
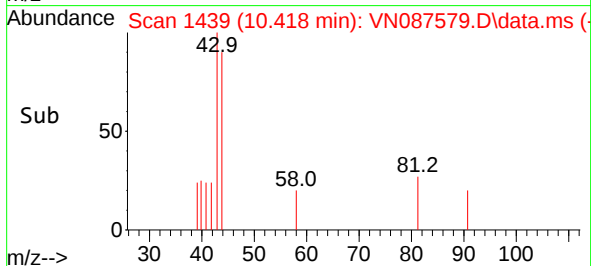
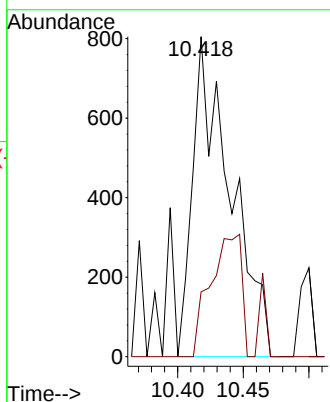
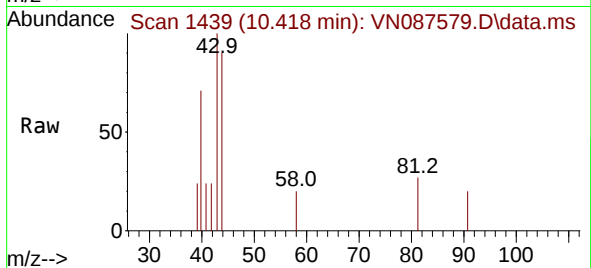
ClientSampleId :

Tgt Ion: 43 Resp: 1601

Ion Ratio Lower Upper

43 100

58 0.0 30.8 46.2#



#56

Ethyl methacrylate

Concen: 0.648 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. -0.235 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

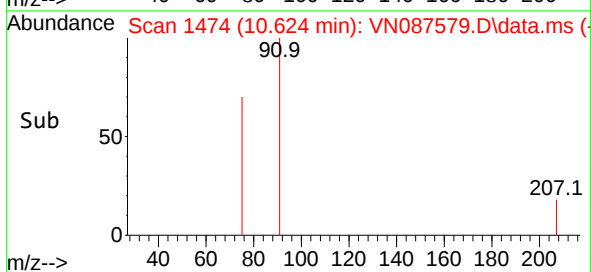
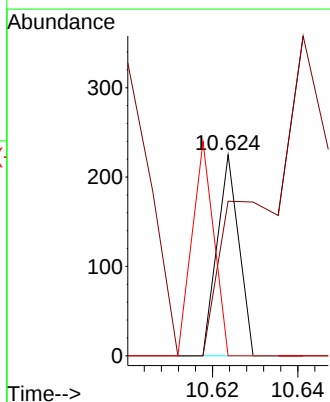
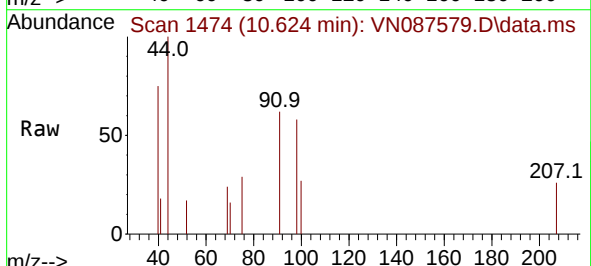
Tgt Ion: 69 Resp: 79

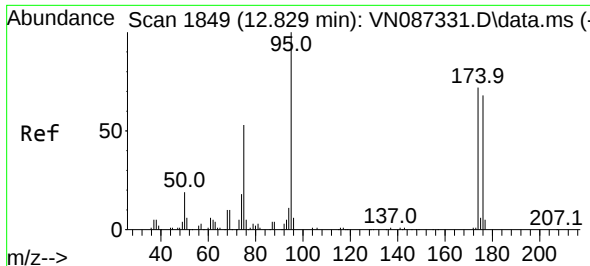
Ion Ratio Lower Upper

69 100

41 0.0 55.1 82.7#

39 107.6 27.9 41.9#

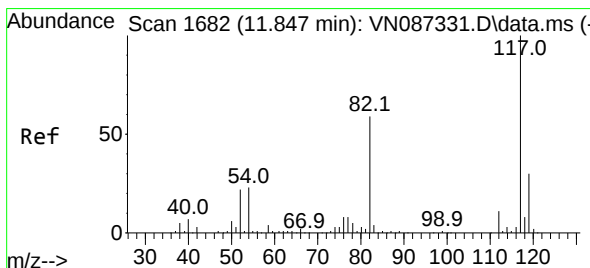
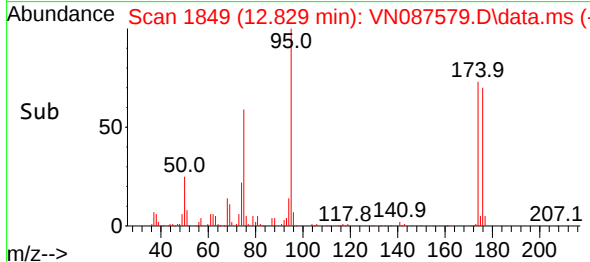
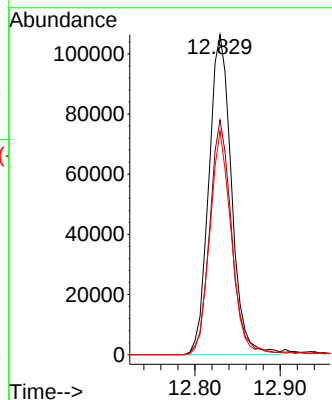
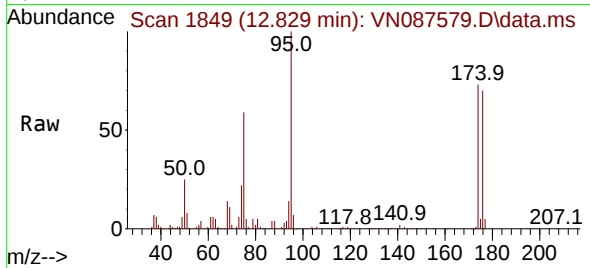




#62
4-Bromofluorobenzene
Concen: 43.091 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

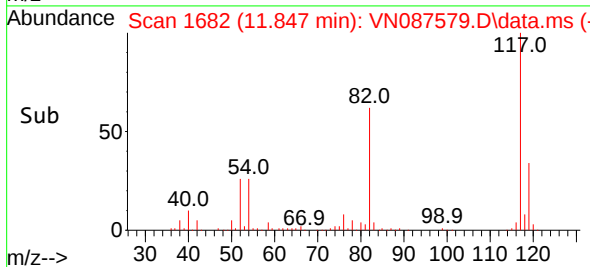
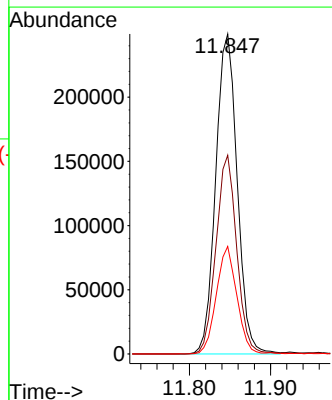
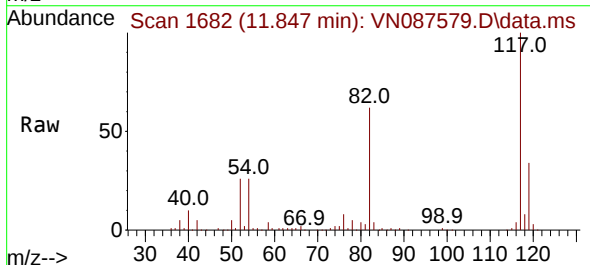
Instrument :
MSVOA_N
ClientSampleId :

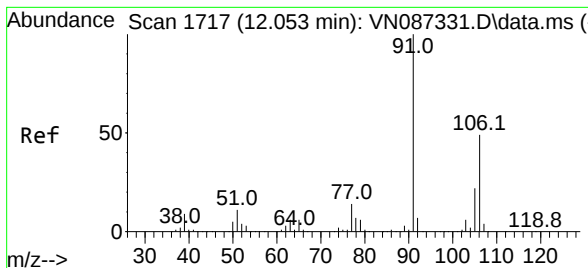
Tgt Ion: 95 Resp: 196085
Ion Ratio Lower Upper
95 100
174 70.9 0.0 149.4
176 67.2 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Tgt Ion: 117 Resp: 458871
Ion Ratio Lower Upper
117 100
82 62.1 47.4 71.2
119 33.6 23.8 35.8

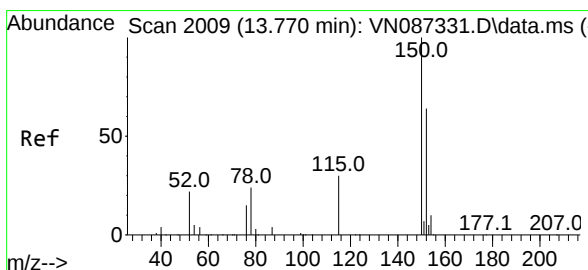
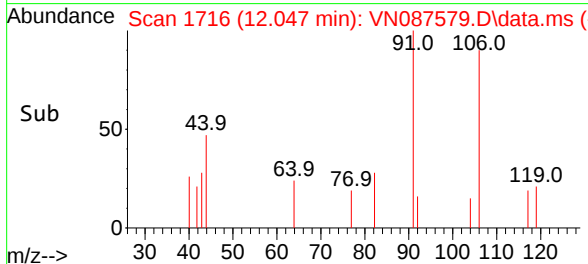
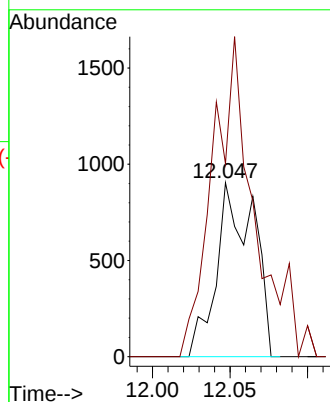
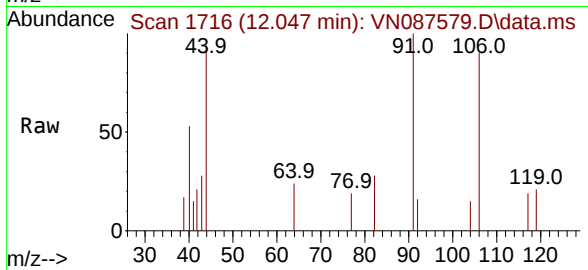




#68
m/p-Xylenes
Concen: 0.238 ug/l
RT: 12.047 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

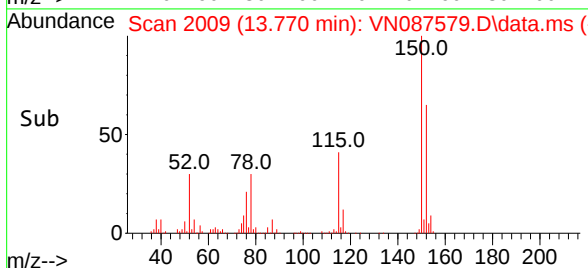
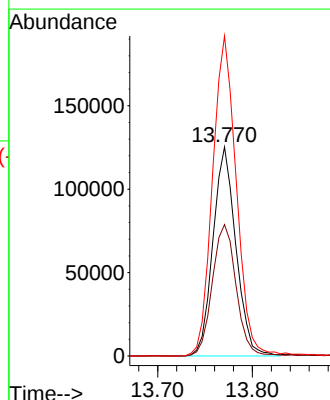
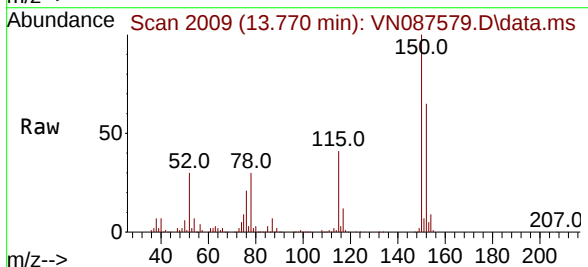
Instrument :
MSVOA_N
ClientSampleId :

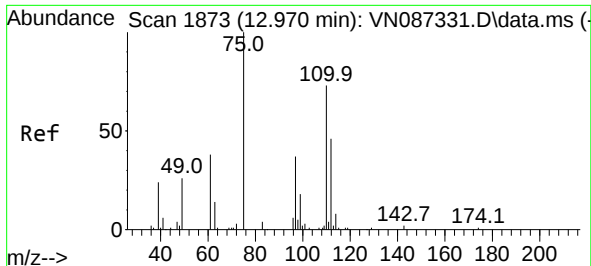
Tgt Ion:106 Resp: 1509
Ion Ratio Lower Upper
106 100
91 206.0 162.0 243.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Tgt Ion:152 Resp: 210565
Ion Ratio Lower Upper
152 100
115 65.4 31.1 93.5
150 159.8 0.0 349.0

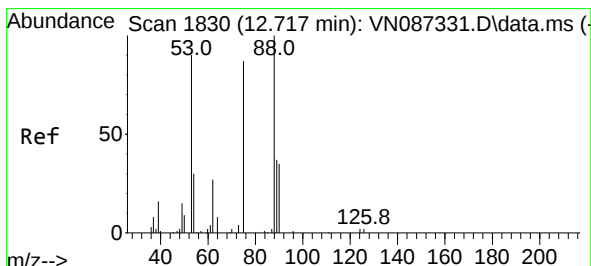
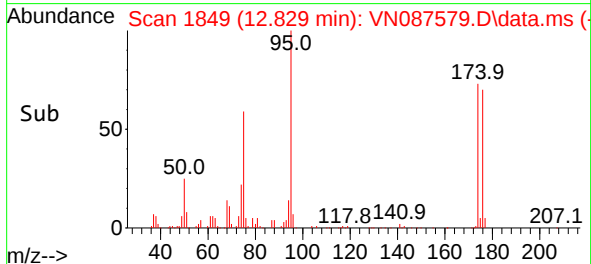
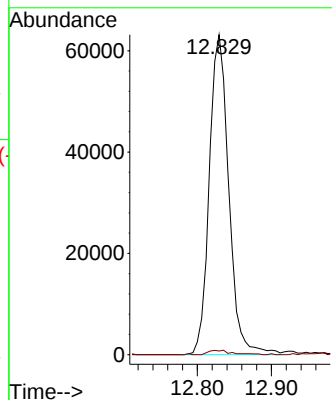
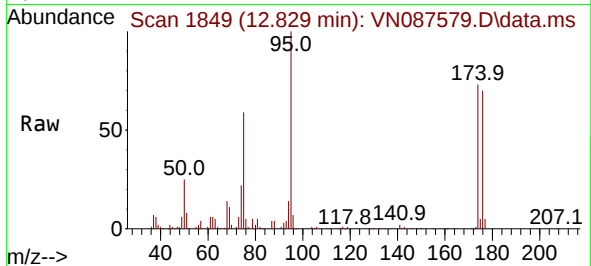




#76
 1,2,3-Trichloropropane
 Concen: 24.447 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087579.D
 Acq: 15 Aug 2025 14:14

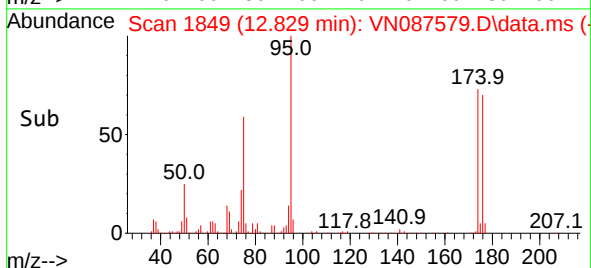
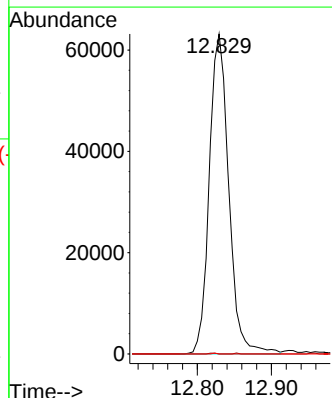
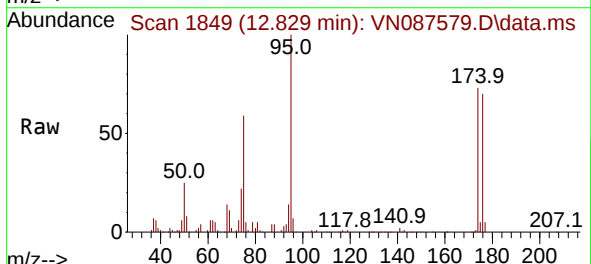
Instrument :
 MSVOA_N
 ClientSampleId :

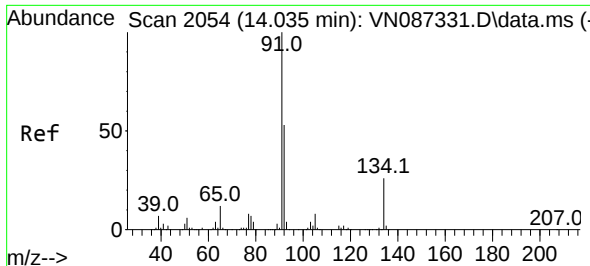
Tgt Ion: 75 Resp: 115431
 Ion Ratio Lower Upper
 75 100
 77 1.4 94.5 283.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.890 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087579.D
 Acq: 15 Aug 2025 14:14

Tgt Ion: 75 Resp: 115431
 Ion Ratio Lower Upper
 75 100
 53 0.1 83.5 125.3#
 89 0.0 38.4 57.6#

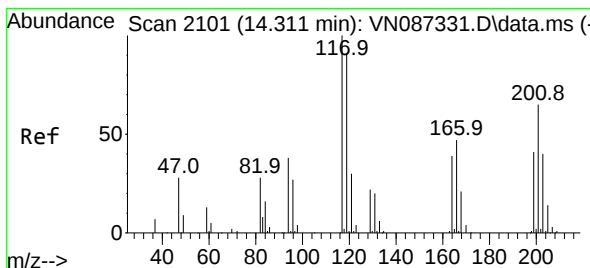
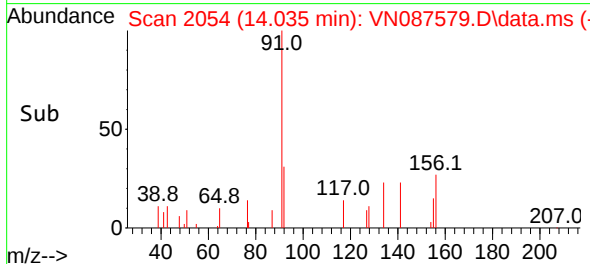
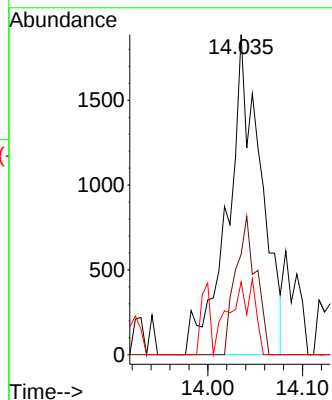
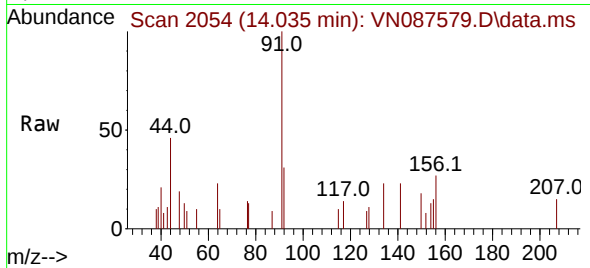




#89
n-Butylbenzene
Concen: 0.421 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

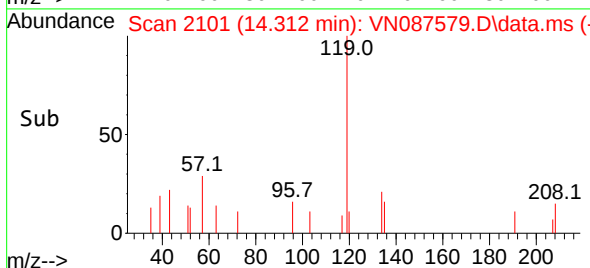
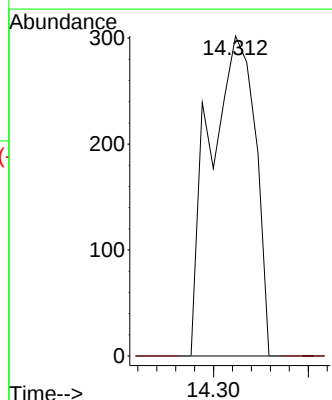
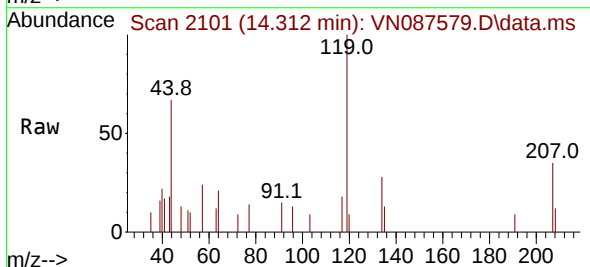
Instrument :
MSVOA_N
ClientSampleId :

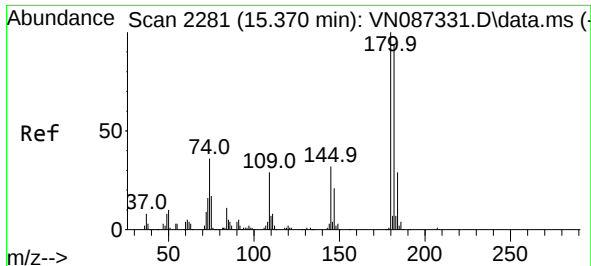
Tgt Ion: 91 Resp: 4572
Ion Ratio Lower Upper
91 100
92 26.7 26.2 78.6
134 17.5 12.4 37.2



#90
Hexachloroethane
Concen: 0.209 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Tgt Ion: 117 Resp: 505
Ion Ratio Lower Upper
117 100
201 0.0 32.8 98.4#





#93

1,2,4-Trichlorobenzene

Concen: 0.231 ug/l

RT: 15.365 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087579.D

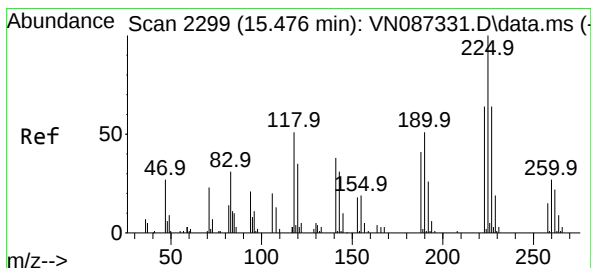
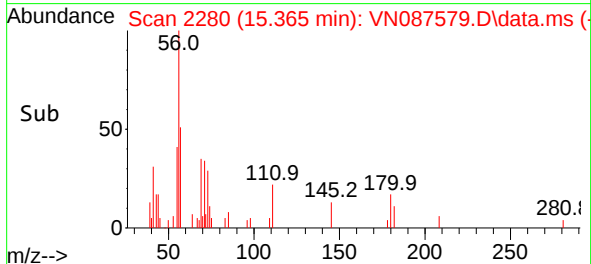
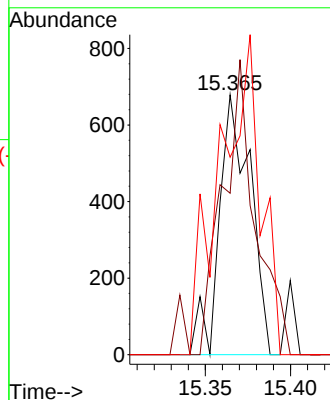
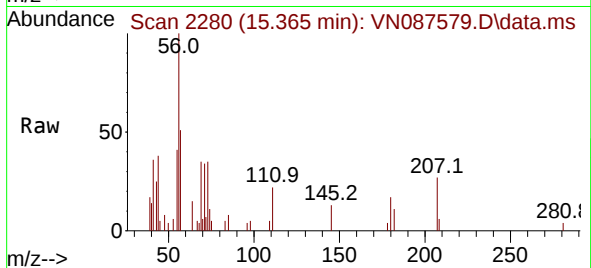
Acq: 15 Aug 2025 14:14

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:180	Resp:	866
Ion Ratio	Lower	Upper
180	100	
182	118.9	47.3 141.8
145	157.6	15.4 46.4#



#94

Hexachlorobutadiene

Concen: 0.275 ug/l

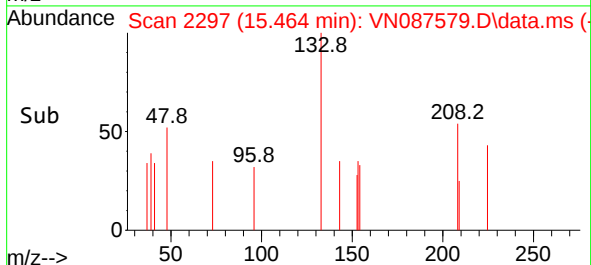
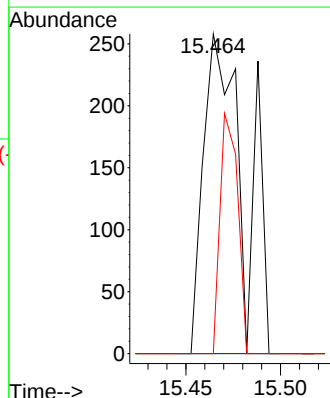
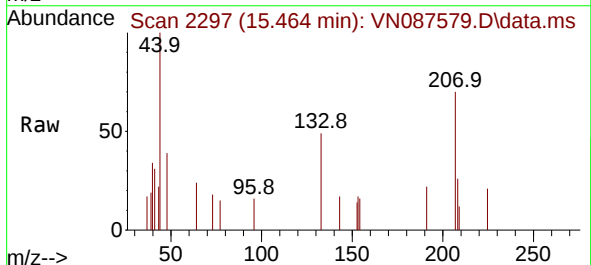
RT: 15.464 min Scan# 2297

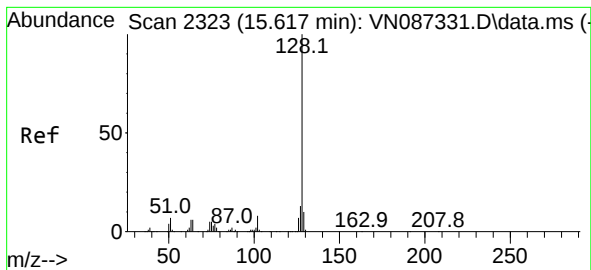
Delta R.T. -0.012 min

Lab File: VN087579.D

Acq: 15 Aug 2025 14:14

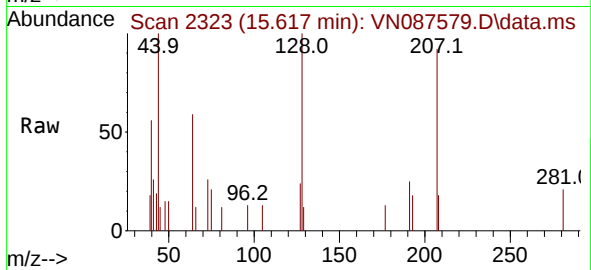
Tgt Ion:225	Resp:	383
Ion Ratio	Lower	Upper
225	100	
223	0.0	32.1 96.3#
227	32.6	31.3 93.9





#95
Naphthalene
Concen: 0.225 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087579.D
Acq: 15 Aug 2025 14:14

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	2997
Ion	Ratio	Lower	Upper
128	100		
127	18.6	10.5	15.7#
129	6.1	8.4	12.6#

