

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091925\
 Data File : VN087900.D
 Acq On : 19 Sep 2025 10:44
 Operator : JC\MD
 Sample : VN0919MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 03:01:18 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)

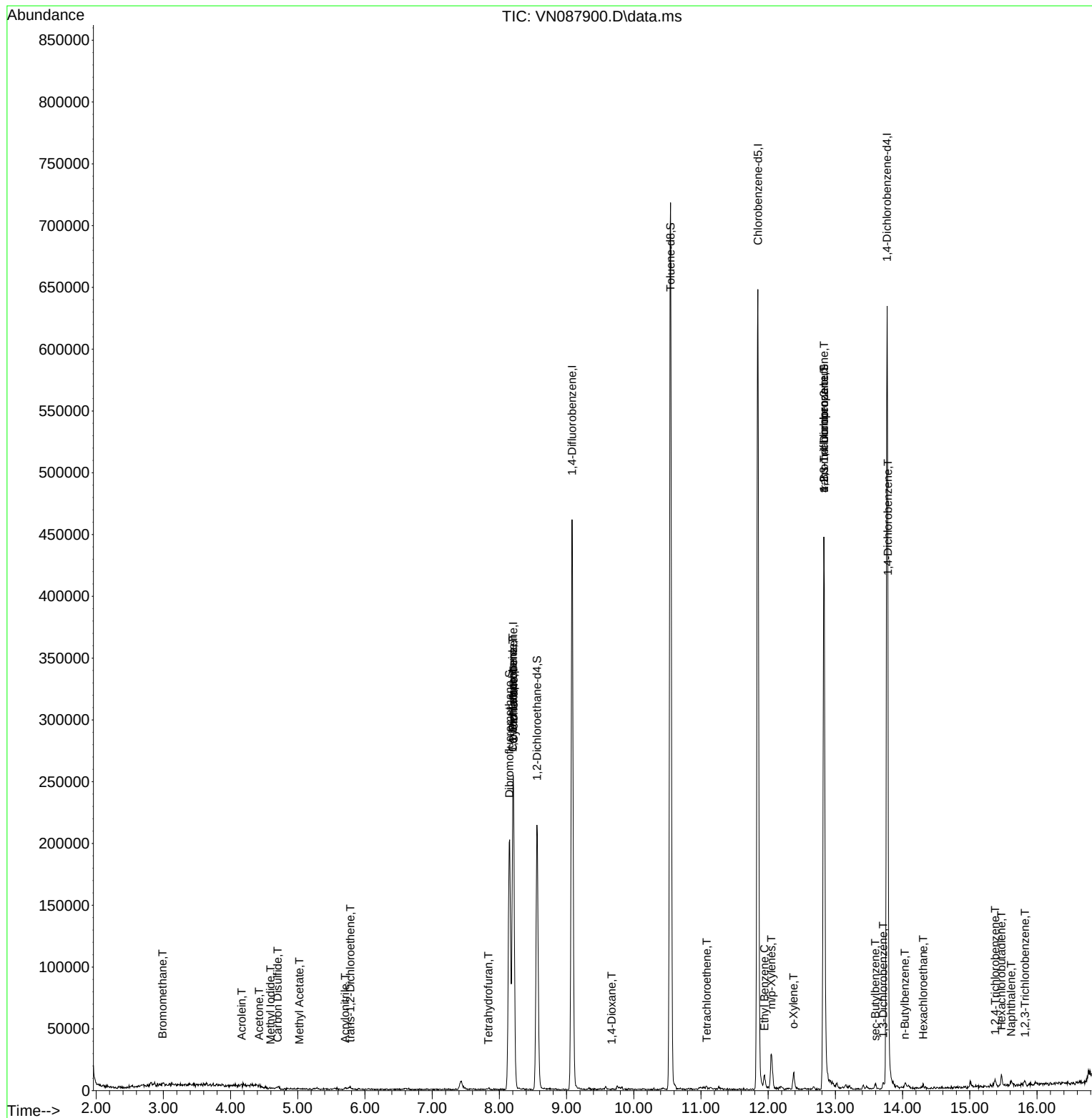
Internal Standards						
1) Pentafluorobenzene	8.206	168	177027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	384630	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	371538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	176317	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	173544	47.847	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.700%		
35) Dibromofluoromethane	8.147	113	145233	52.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.600%		
50) Toluene-d8	10.547	98	492166	47.351	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.700%		
62) 4-Bromofluorobenzene	12.829	95	165877	44.875	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	89.760%		
Target Compounds						Qvalue
5) Bromomethane	2.989	94	1243	0.804	ug/l	86
10) Methyl Iodide	4.594	142	877	7.219	ug/l #	78
13) Acrolein	4.165	56	166	0.214	ug/l #	1
15) Acrylonitrile	5.706	53	1045	0.588	ug/l #	54
16) Acetone	4.424	43	1111	0.563	ug/l	100
17) Carbon Disulfide	4.700	76	3745	0.533	ug/l #	74
18) Methyl Acetate	5.024	43	1016	0.246	ug/l #	54
20) Methylene Chloride	5.283	84	511	Below Cal	#	67
21) trans-1,2-Dichloroethene	5.783	96	702	0.254	ug/l #	47
29) Tetrahydrofuran	7.835	42	360	0.215	ug/l #	62
31) Cyclohexane	8.212	56	5514	1.209	ug/l #	42
36) 1,1-Dichloropropene	8.200	75	17566	4.123	ug/l #	52
38) Carbon Tetrachloride	8.200	117	19995	4.754	ug/l #	14
49) 1,4-Dioxane	9.671	88	93	1.669	ug/l #	13
64) Tetrachloroethene	11.088	164	588	0.228	ug/l #	29
67) Ethyl Benzene	11.947	91	6118	0.382	ug/l #	81
68) m/p-Xylenes	12.047	106	9052	1.542	ug/l	95
69) o-Xylene	12.376	106	3446	0.599	ug/l	82
76) 1,2,3-Trichloropropane	12.829	75	91897	22.226	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	91897	58.840	ug/l #	1
85) sec-Butylbenzene	13.594	105	3098	0.207	ug/l	86
87) 1,3-Dichlorobenzene	13.712	146	1423	0.215	ug/l #	49
88) 1,4-Dichlorobenzene	13.782	146	1818	0.264	ug/l #	1
89) n-Butylbenzene	14.035	91	3699	0.302	ug/l #	69
90) Hexachloroethane	14.306	117	621	0.264	ug/l #	22
93) 1,2,4-Trichlorobenzene	15.376	180	1928	0.512	ug/l #	85
94) Hexachlorobutadiene	15.470	225	1433	1.067	ug/l #	70
95) Naphthalene	15.617	128	4840	0.363	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.823	180	1307	0.355	ug/l	88

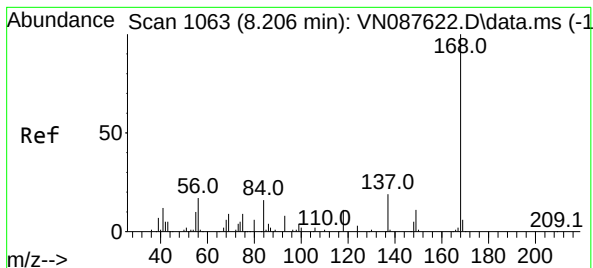
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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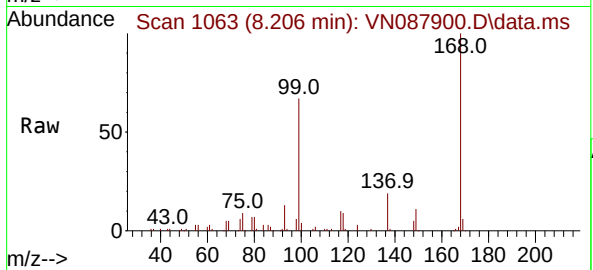
Quant Time: Sep 20 03:01:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 22 02:55:42 2025
Response via : Initial Calibration



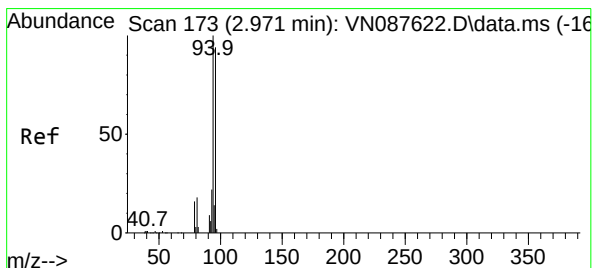
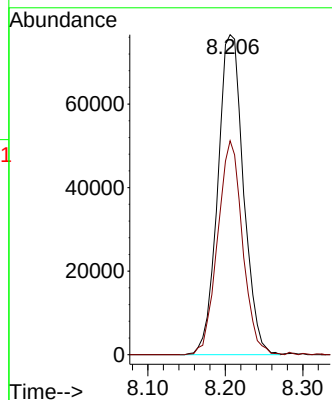
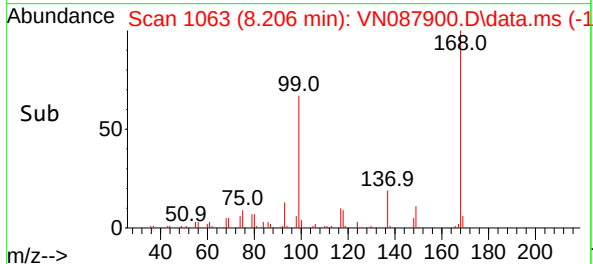


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :

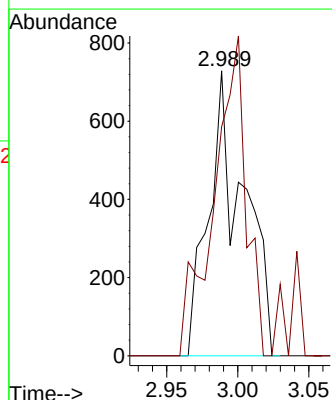
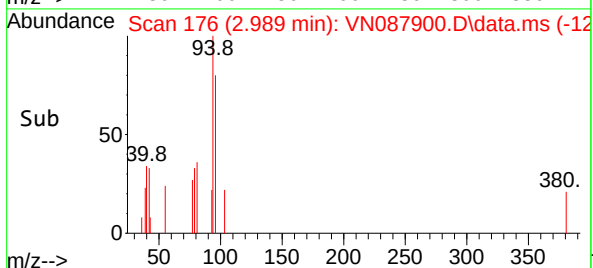
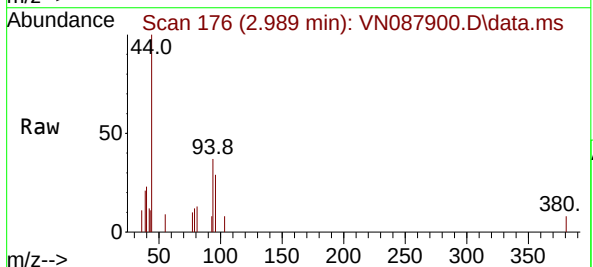


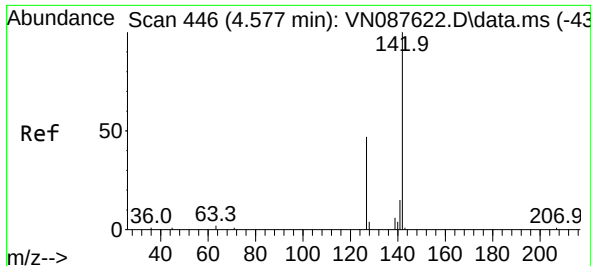
Tgt Ion:168 Resp: 177027
Ion Ratio Lower Upper
168 100
99 66.8 57.2 85.8



#5
Bromomethane
Concen: 0.804 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.017 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

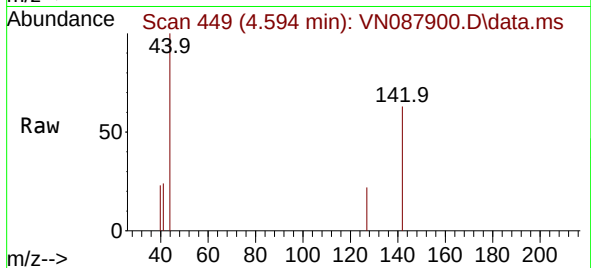
Tgt Ion: 94 Resp: 1243
Ion Ratio Lower Upper
94 100
96 80.4 75.4 113.2



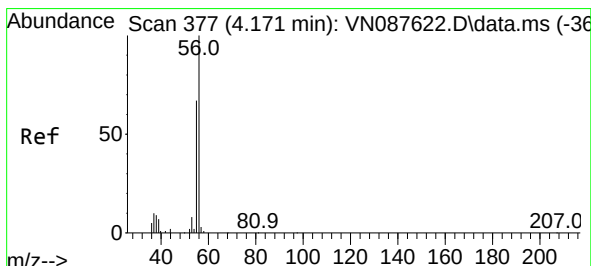
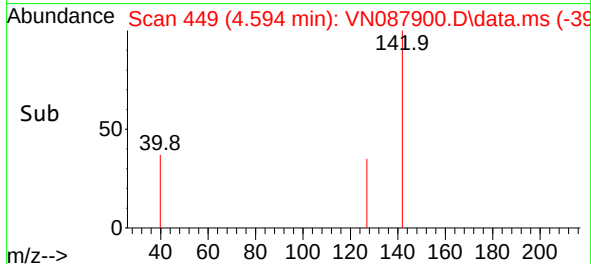
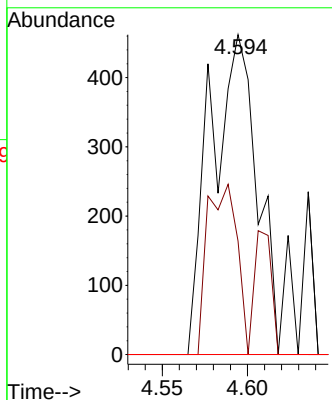


#10
Methyl Iodide
Concen: 7.219 ug/l
RT: 4.594 min Scan# 446
Delta R.T. 0.017 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :

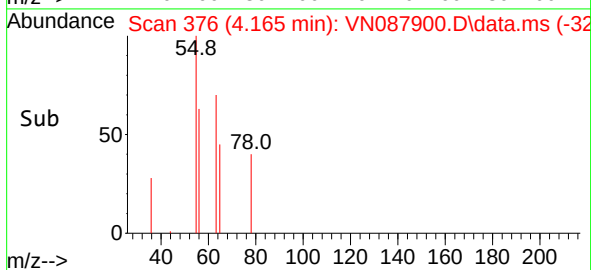
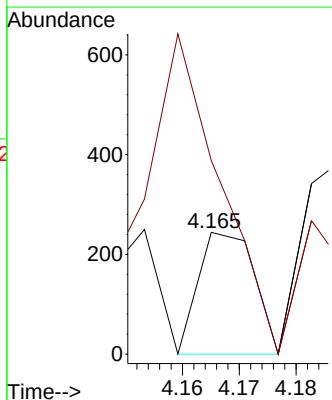
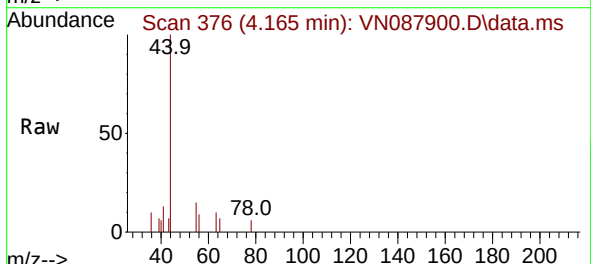


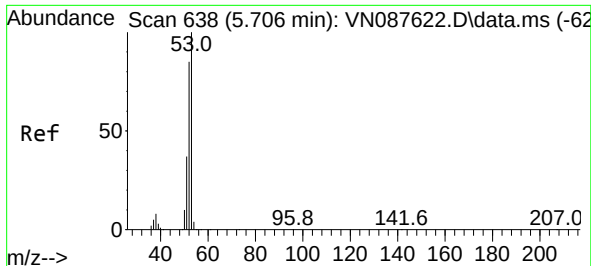
Tgt Ion:142 Resp: 877
Ion Ratio Lower Upper
142 100
127 35.5 38.0 57.0#
141 0.0 12.0 18.0#



#13
Acrolein
Concen: 0.214 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

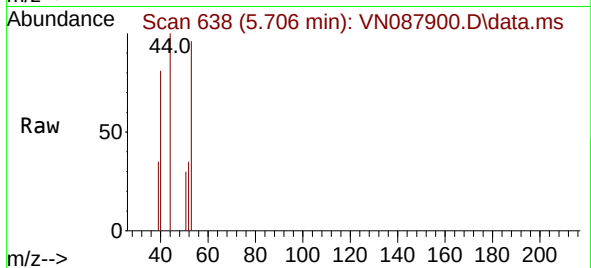
Tgt Ion: 56 Resp: 166
Ion Ratio Lower Upper
56 100
55 371.7 57.3 85.9#



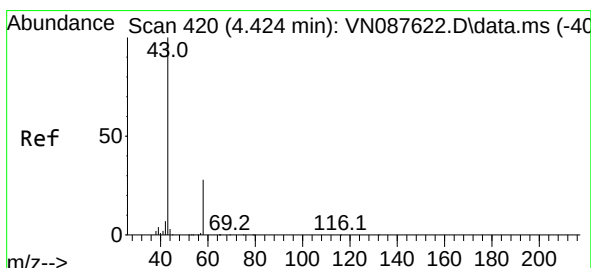
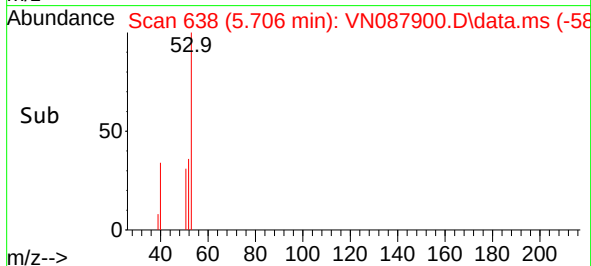
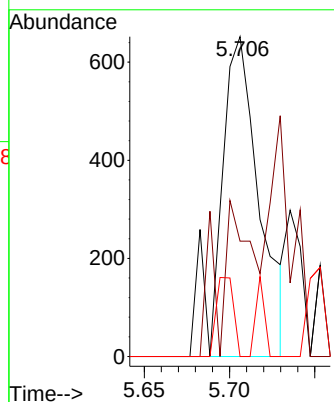


#15
Acrylonitrile
Concen: 0.588 ug/l
RT: 5.706 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :

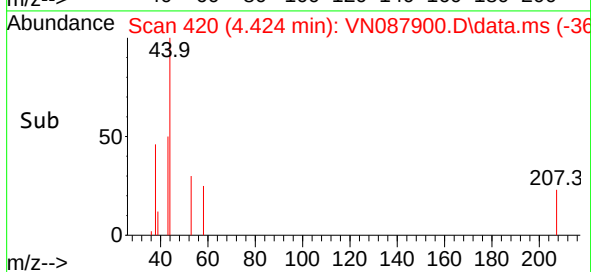
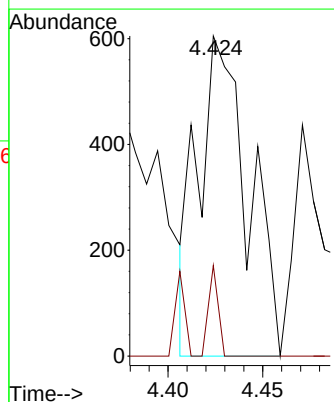
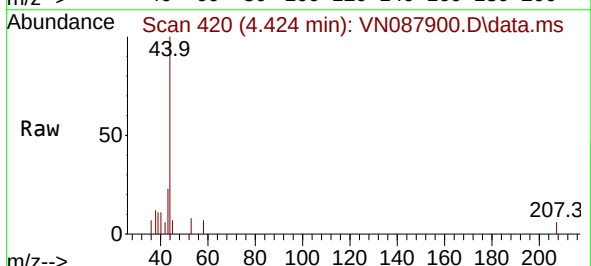


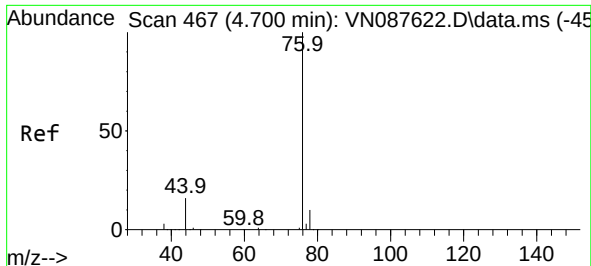
Tgt Ion: 53 Resp: 1045
Ion Ratio Lower Upper
53 100
52 42.3 67.6 101.4#
51 10.8 30.1 45.1#



#16
Acetone
Concen: 0.563 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Tgt Ion: 43 Resp: 1111
Ion Ratio Lower Upper
43 100
58 28.3 22.6 33.8

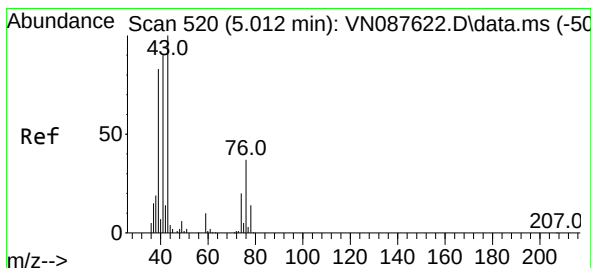
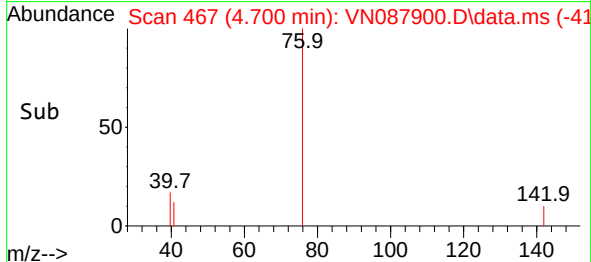
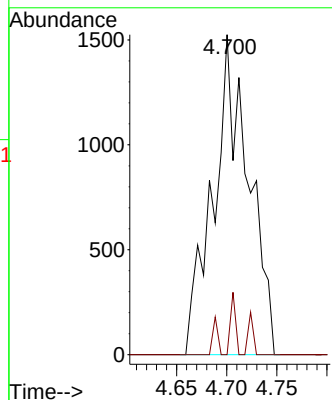
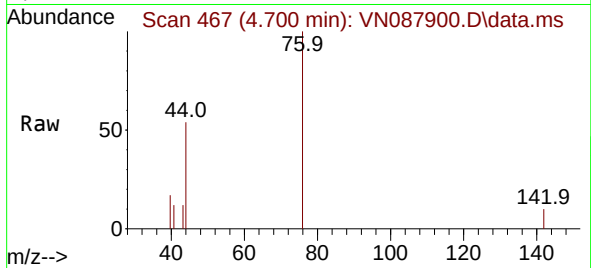




#17
Carbon Disulfide
Concen: 0.533 ug/l
RT: 4.700 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

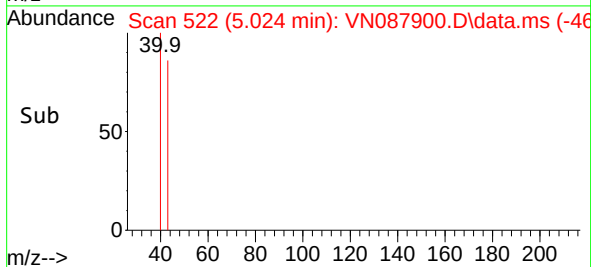
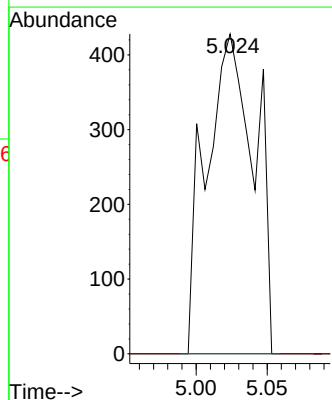
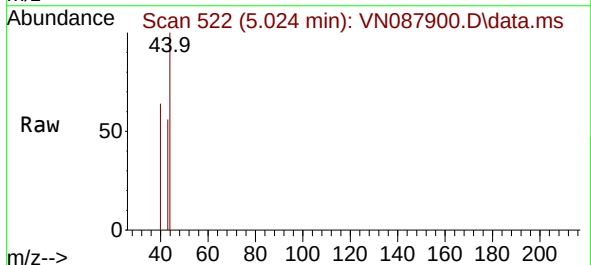
Instrument :
MSVOA_N
ClientSampleId :

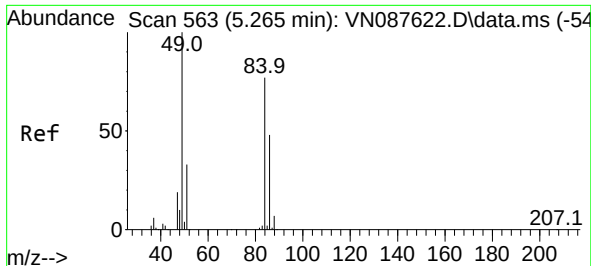
Tgt Ion: 76 Resp: 3745
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.246 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

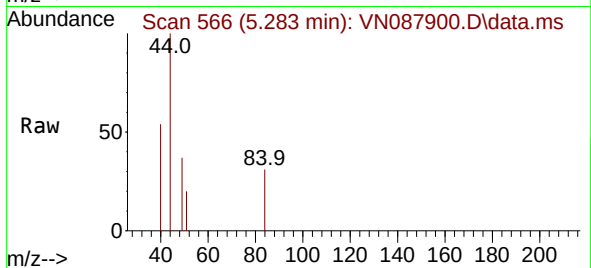
Tgt Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



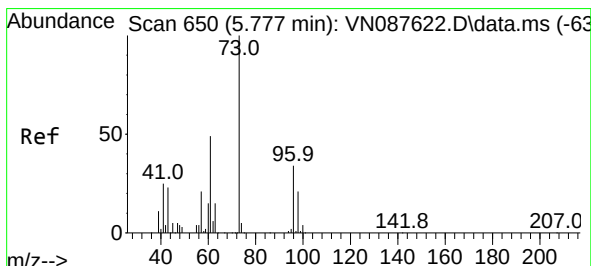
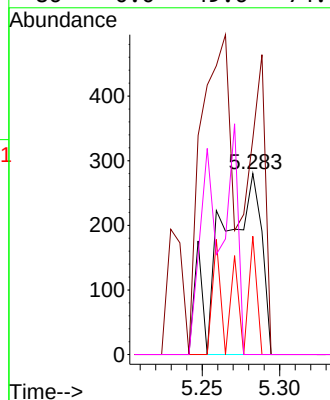
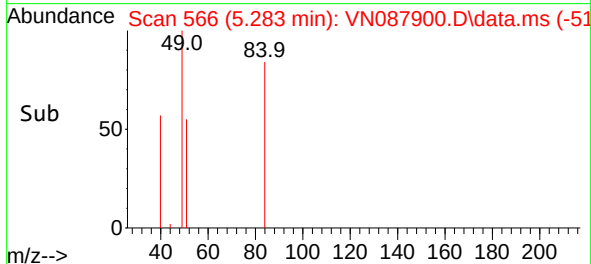


#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 511
Delta R.T. 0.018 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

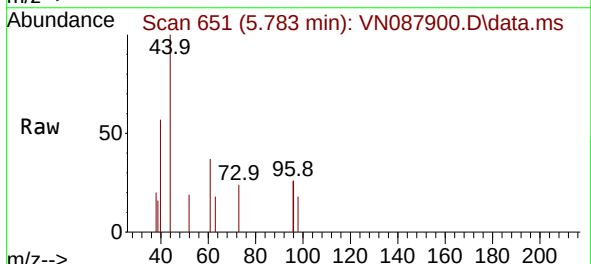
Instrument :
MSVOA_N
ClientSampleId :



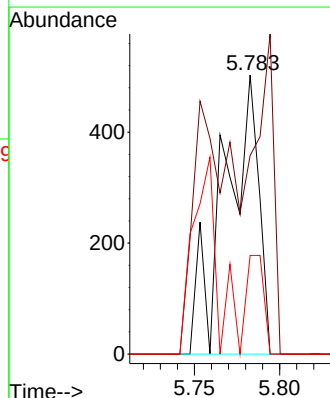
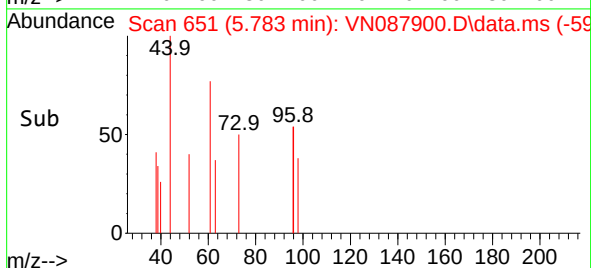
Tgt Ion: 84 Resp: 511
Ion Ratio Lower Upper
84 100
49 119.3 103.4 155.2
51 65.4 33.8 50.8#
86 0.0 49.6 74.4#

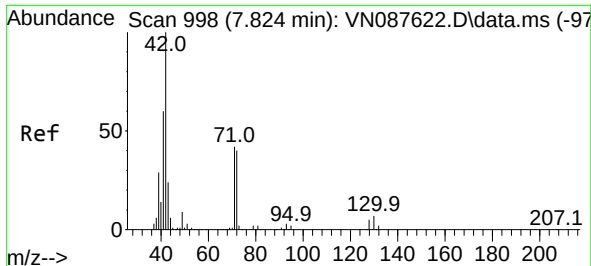


#21
trans-1,2-Dichloroethene
Concen: 0.254 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44



Tgt Ion: 96 Resp: 702
Ion Ratio Lower Upper
96 100
61 71.2 118.0 177.0#
98 35.4 50.0 75.0#





#29

Tetrahydrofuran

Concen: 0.215 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.012 min

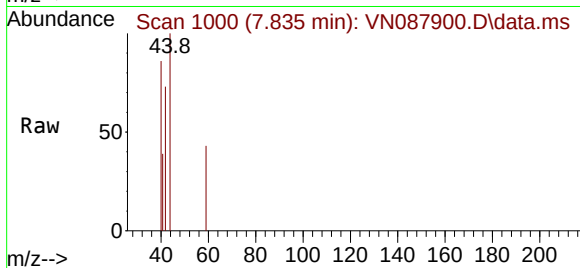
Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

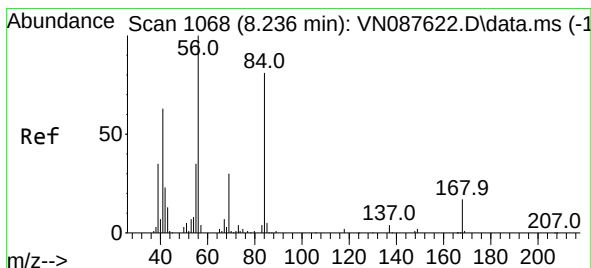
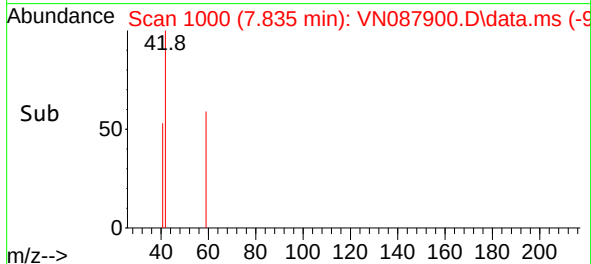
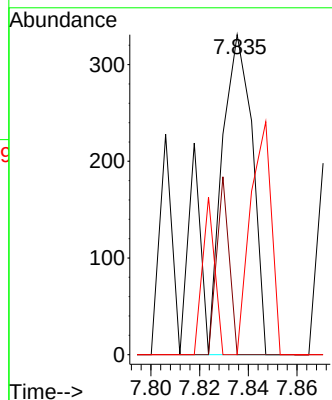
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	360
Ion	Ratio	Lower	Upper
42	100		
72	18.1	33.7	50.5#
71	16.1	31.9	47.9#



#31

Cyclohexane

Concen: 1.209 ug/l

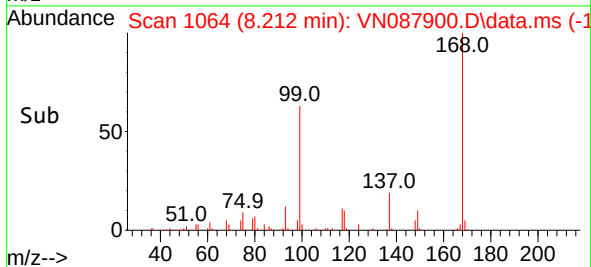
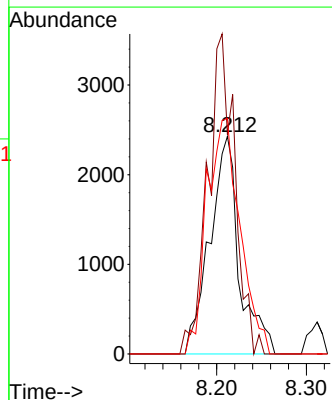
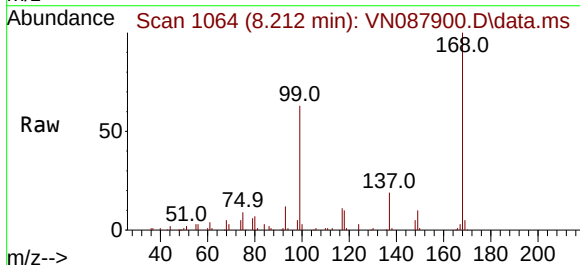
RT: 8.212 min Scan# 1064

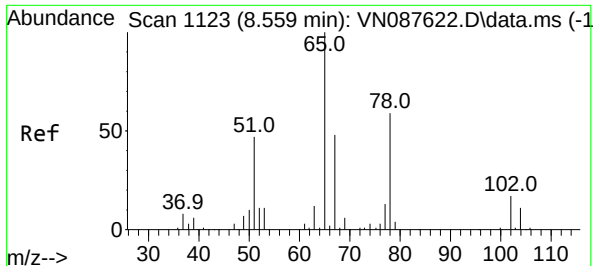
Delta R.T. -0.024 min

Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

Tgt Ion:	56	Resp:	5514
Ion	Ratio	Lower	Upper
56	100		
69	100.9	23.7	35.5#
84	108.4	64.7	97.1#

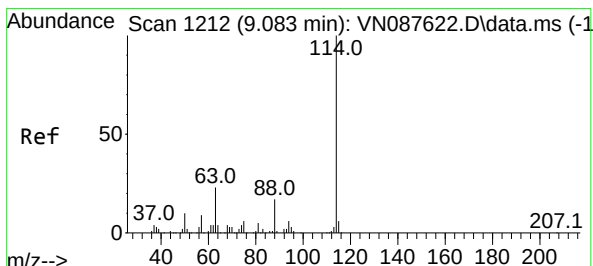
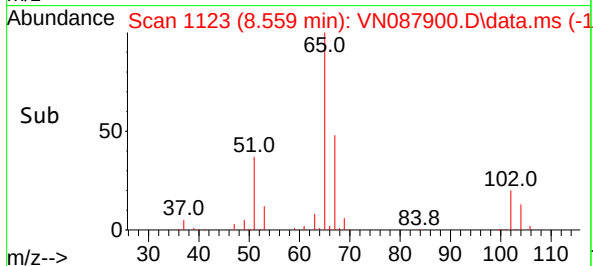
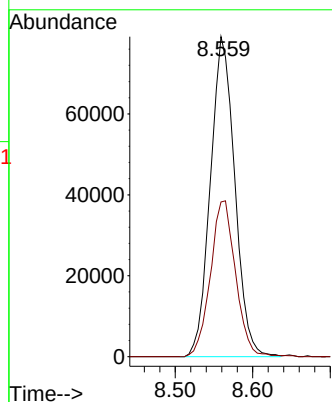
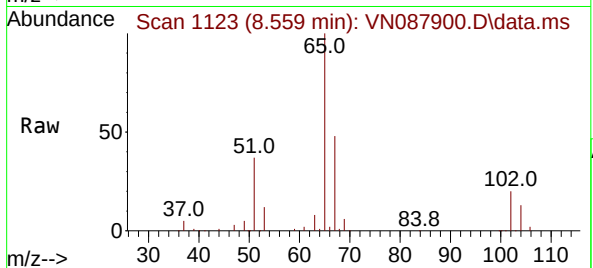




#33
 1,2-Dichloroethane-d4
 Concen: 47.847 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. -0.000 min
 Lab File: VN087900.D
 Acq: 19 Sep 2025 10:44

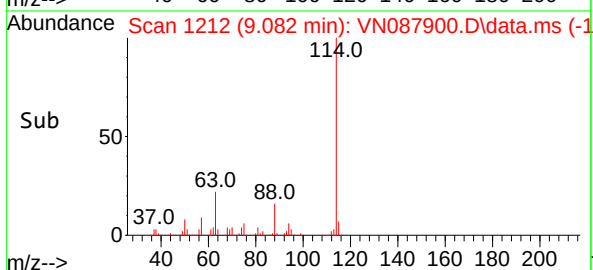
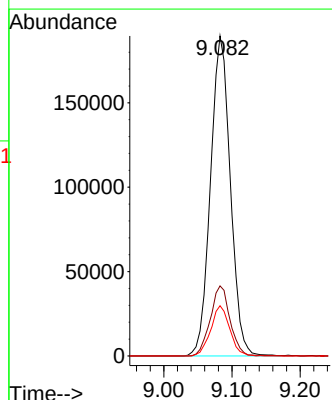
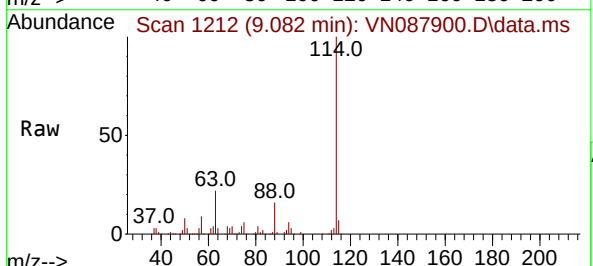
Instrument :
 MSVOA_N
 ClientSampleId :

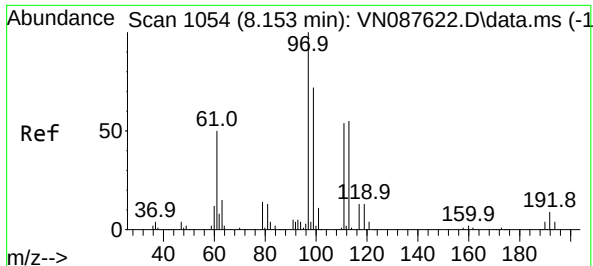
Tgt Ion: 65 Resp: 173544
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 100.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087900.D
 Acq: 19 Sep 2025 10:44

Tgt Ion: 114 Resp: 384630
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 45.2
 88 15.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.298 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

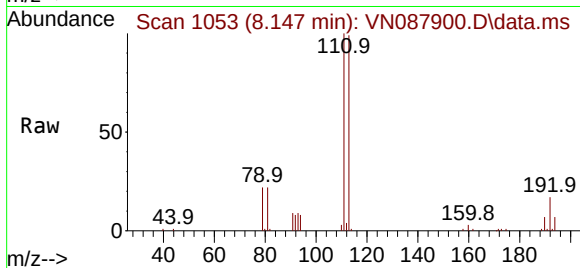
Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

Instrument :

MSVOA_N

ClientSampleId :



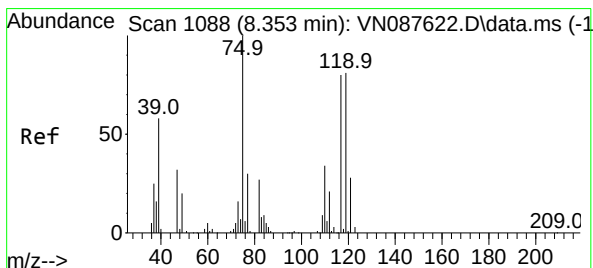
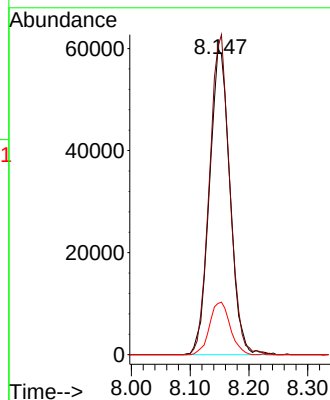
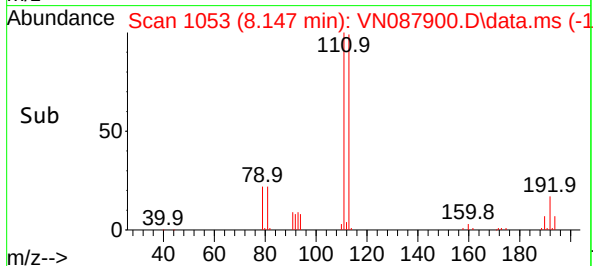
Tgt Ion:113 Resp: 145233

Ion Ratio Lower Upper

113 100

111 103.1 82.8 124.2

192 17.2 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.123 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

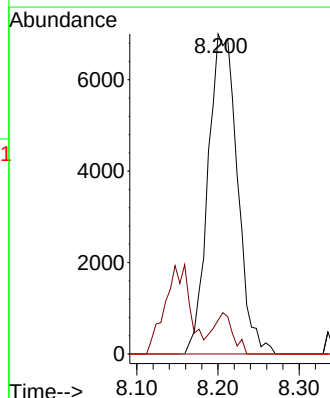
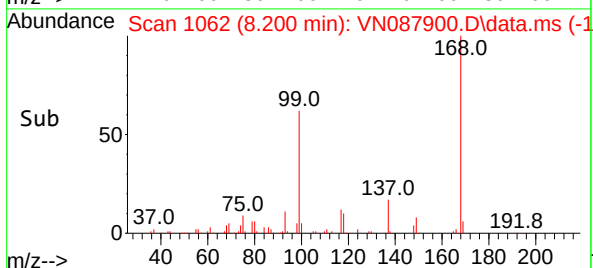
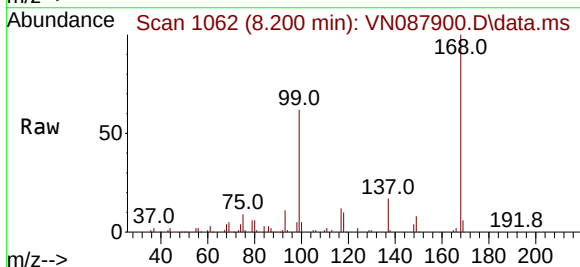
Tgt Ion: 75 Resp: 17566

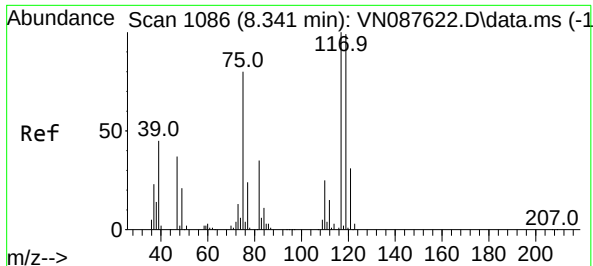
Ion Ratio Lower Upper

75 100

110 8.8 15.9 47.6#

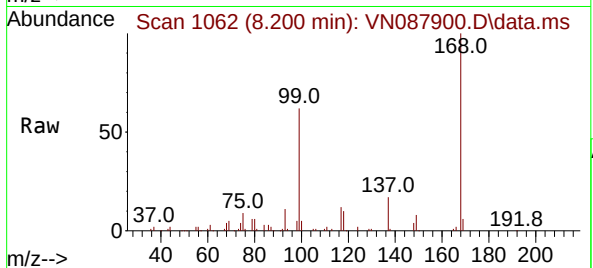
77 0.0 24.4 36.6#



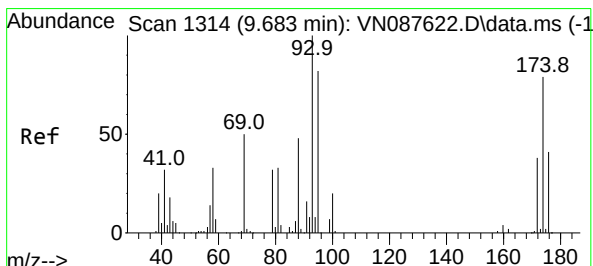
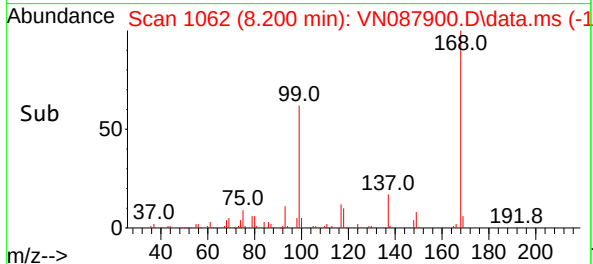
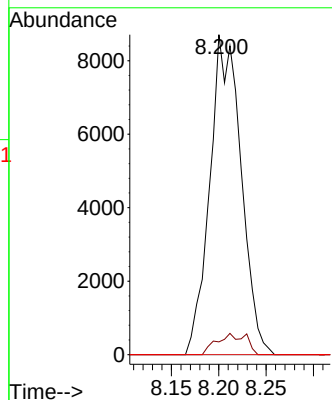


#38
Carbon Tetrachloride
Concen: 4.754 ug/l
RT: 8.200 min Scan# 117
Delta R.T. -0.141 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :

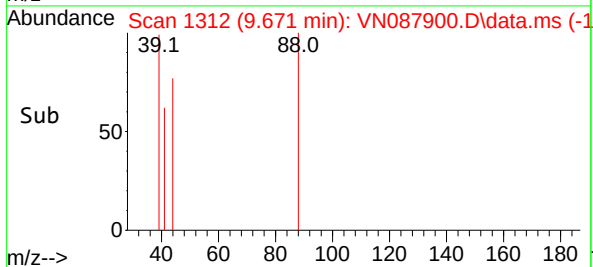
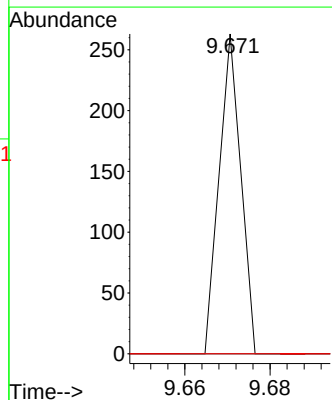
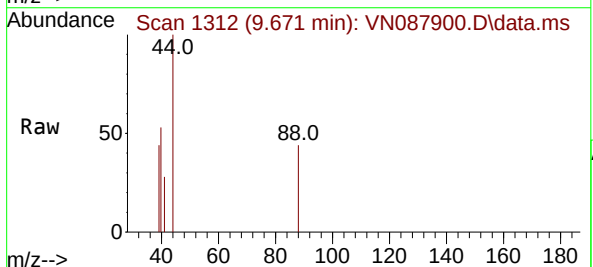


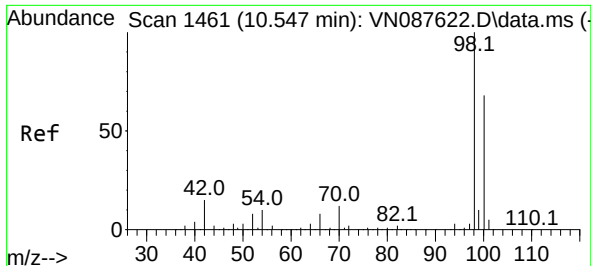
Tgt Ion:117 Resp: 19995
Ion Ratio Lower Upper
117 100
119 4.0 79.0 118.6#
121 0.0 25.0 37.6#



#49
1,4-Dioxane
Concen: 1.669 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.012 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 57.9 86.9#

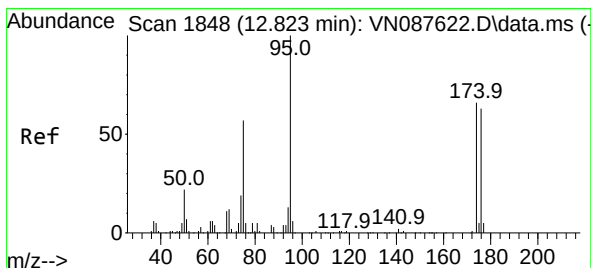
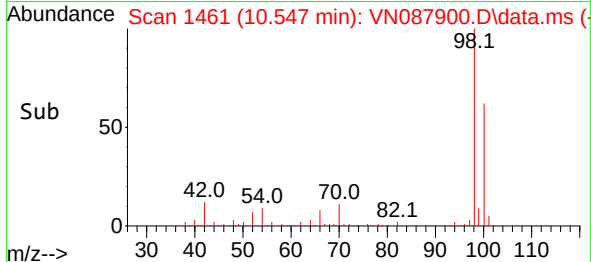
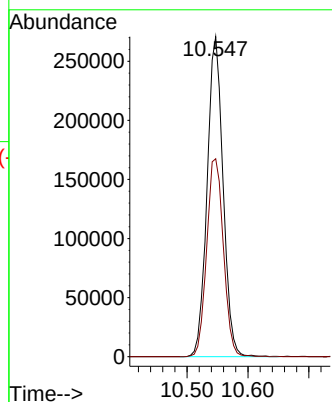
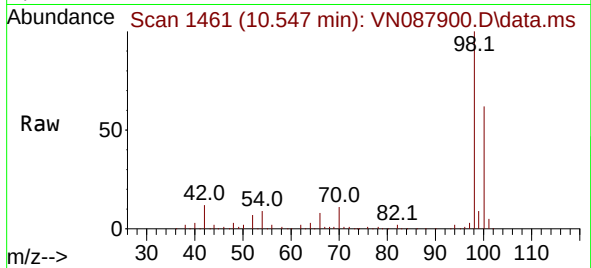




#50
Toluene-d8
Concen: 47.351 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

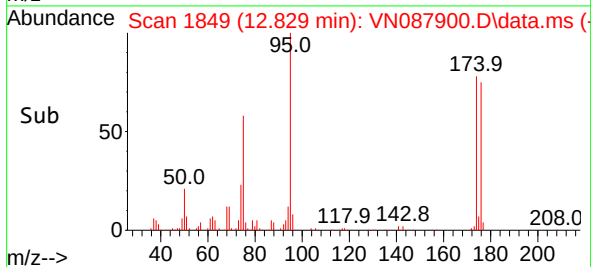
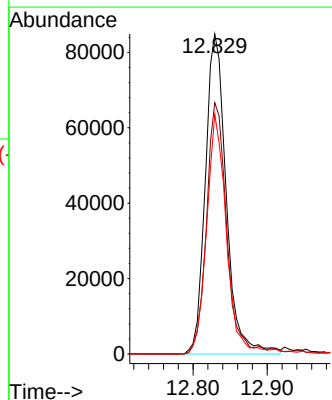
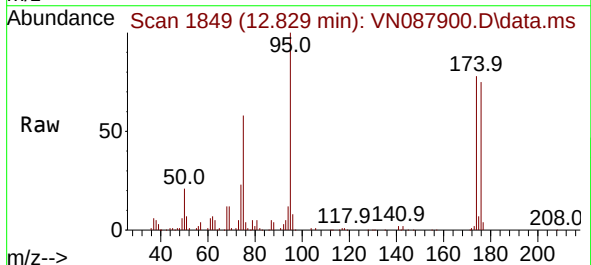
Instrument :
MSVOA_N
ClientSampleId :

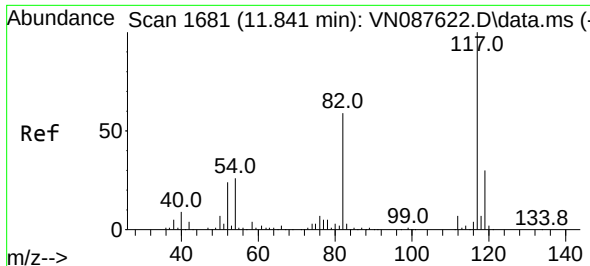
Tgt Ion: 98 Resp: 492166
Ion Ratio Lower Upper
98 100
100 64.8 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 44.875 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Tgt Ion: 95 Resp: 165877
Ion Ratio Lower Upper
95 100
174 75.7 0.0 138.4
176 71.6 0.0 132.6

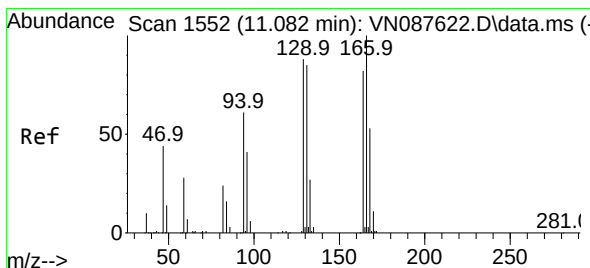
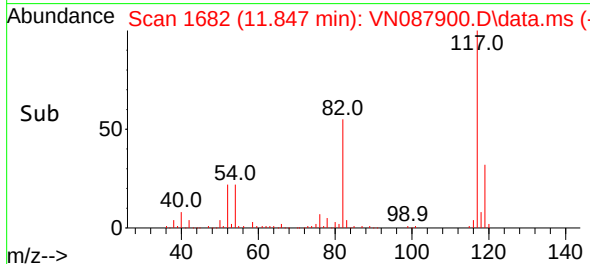
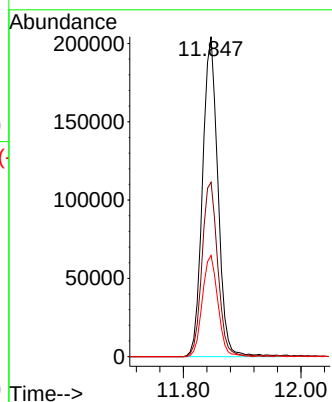
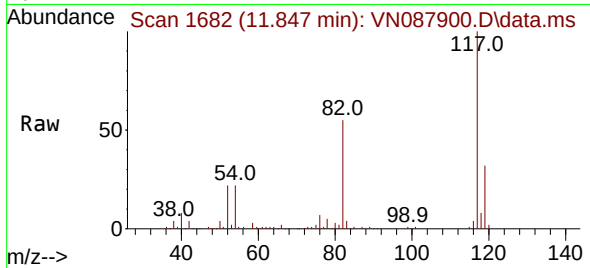




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

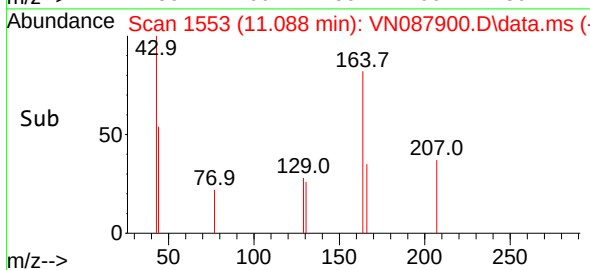
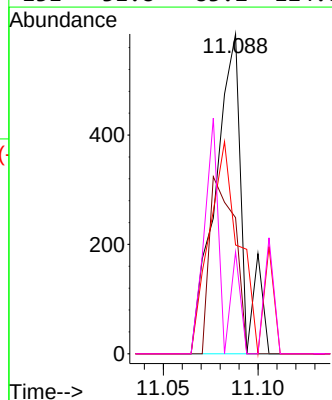
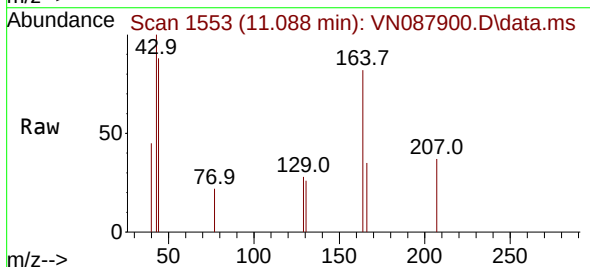
Instrument :
MSVOA_N
ClientSampleId :

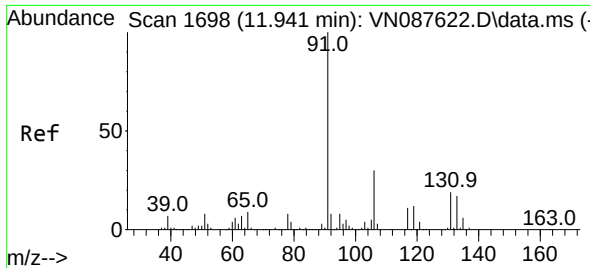
Tgt Ion:117 Resp: 371538
Ion Ratio Lower Upper
117 100
82 54.5 47.4 71.2
119 31.7 24.3 36.5



#64
Tetrachloroethene
Concen: 0.228 ug/l
RT: 11.088 min Scan# 1553
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Tgt Ion:164 Resp: 588
Ion Ratio Lower Upper
164 100
166 42.6 97.7 146.5#
129 34.0 85.9 128.9#
131 31.8 83.2 124.8#

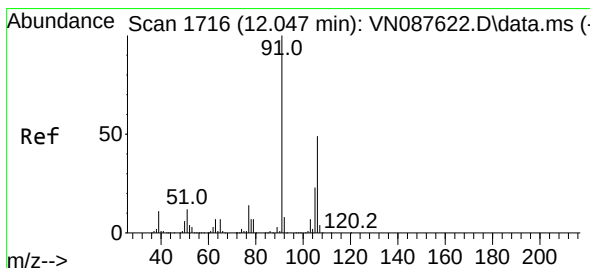
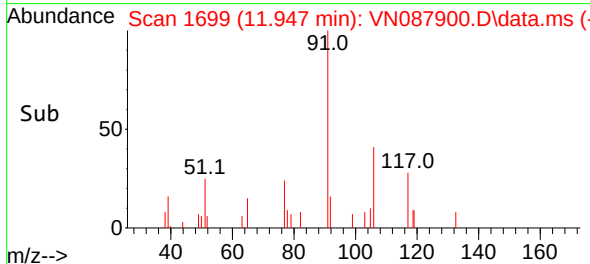
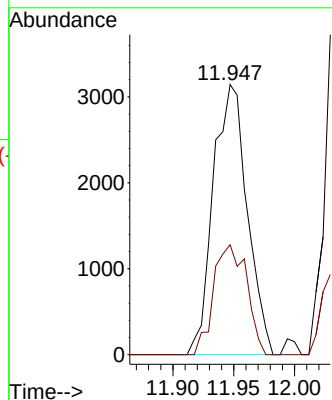
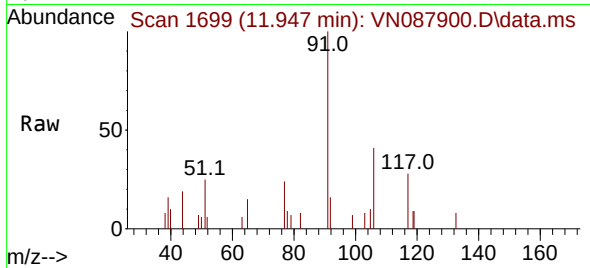




#67
Ethyl Benzene
Concen: 0.382 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

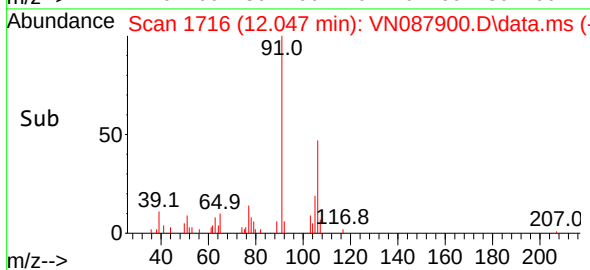
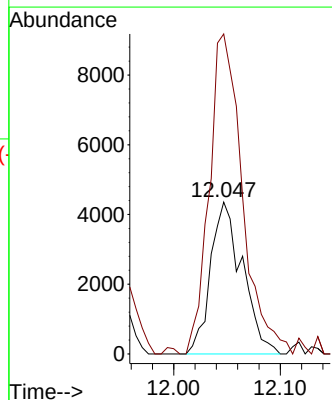
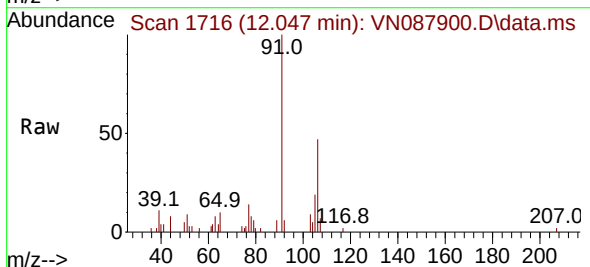
Instrument :
MSVOA_N
ClientSampleId :

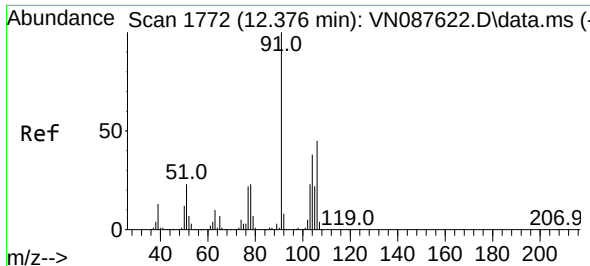
Tgt Ion: 91 Resp: 6118
Ion Ratio Lower Upper
91 100
106 40.7 24.1 36.1#



#68
m/p-Xylenes
Concen: 1.542 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Tgt Ion:106 Resp: 9052
Ion Ratio Lower Upper
106 100
91 219.3 169.3 253.9

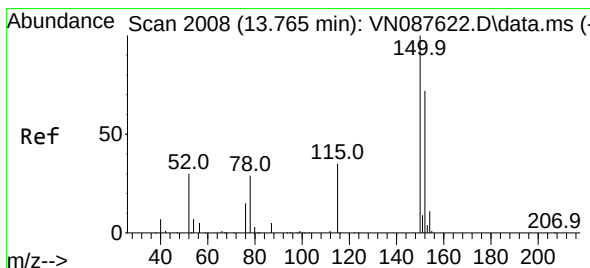
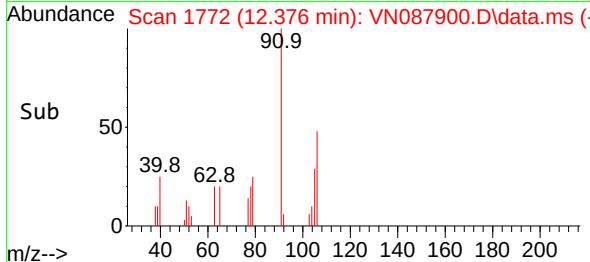
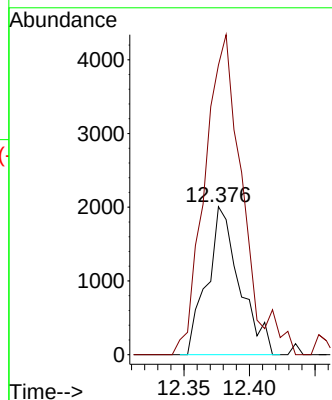
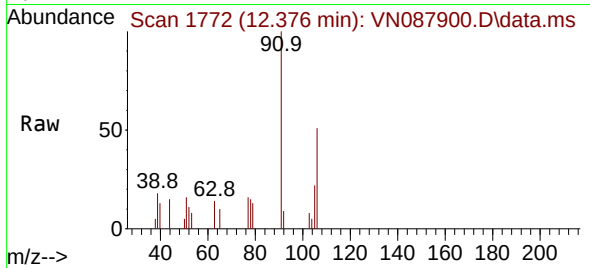




#69
o-Xylene
Concen: 0.599 ug/l
RT: 12.376 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

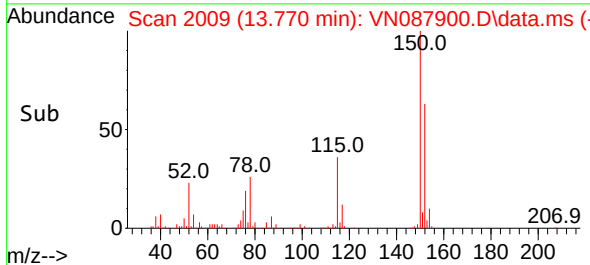
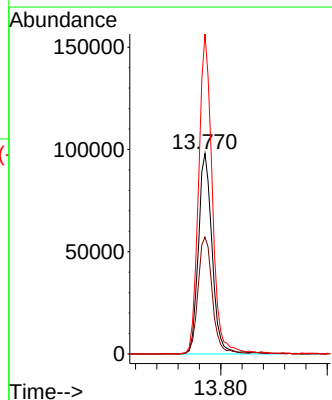
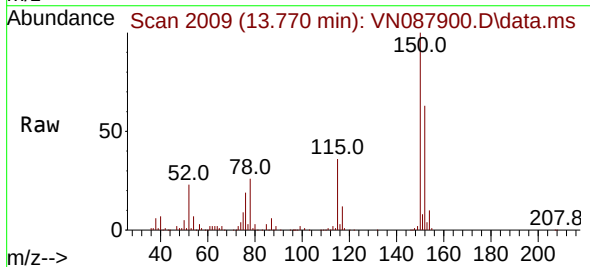
Instrument :
MSVOA_N
ClientSampleId :

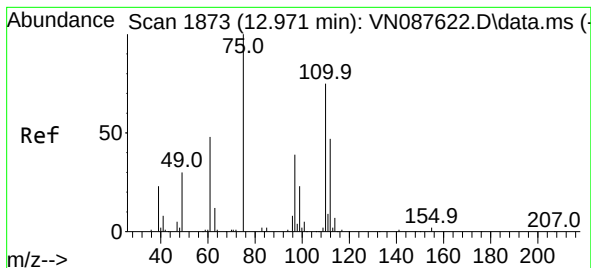
Tgt Ion:106 Resp: 3446
Ion Ratio Lower Upper
106 100
91 252.4 111.4 334.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Tgt Ion:152 Resp: 176317
Ion Ratio Lower Upper
152 100
115 60.8 32.3 96.8
150 157.1 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.226 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

Instrument :

MSVOA_N

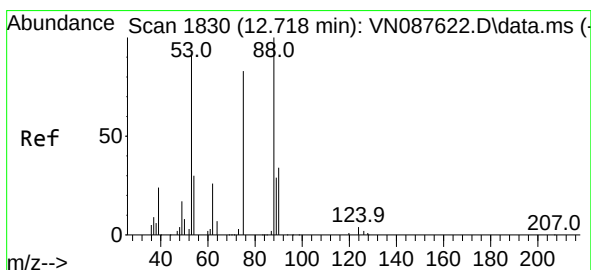
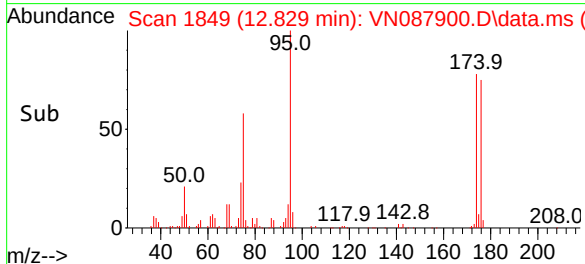
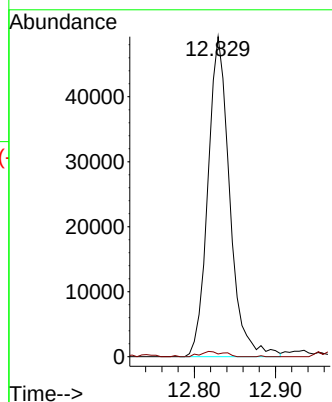
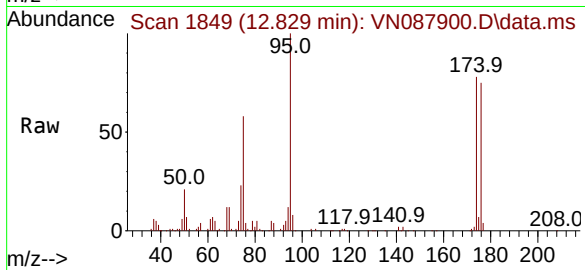
ClientSampleId :

Tgt Ion: 75 Resp: 91897

Ion Ratio Lower Upper

75 100

77 1.7 89.1 267.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.840 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

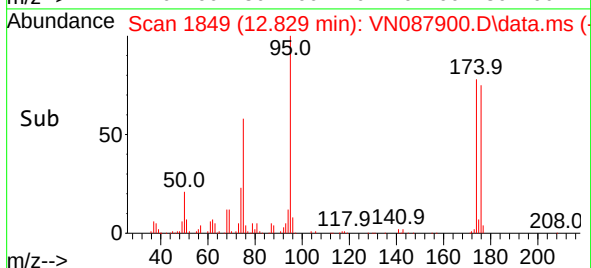
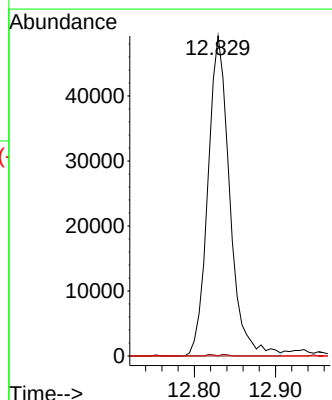
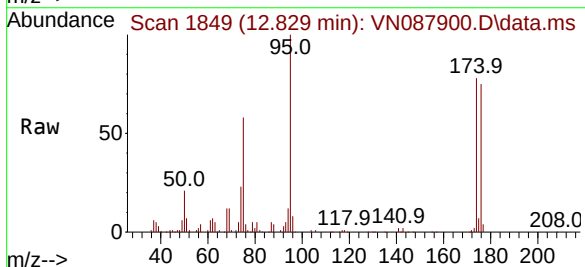
Tgt Ion: 75 Resp: 91897

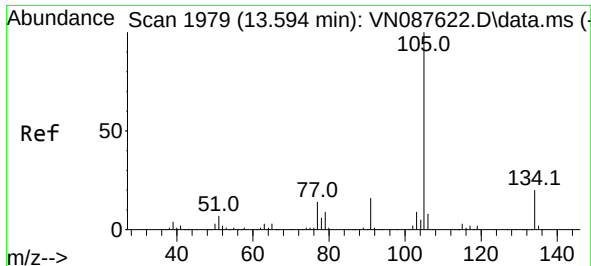
Ion Ratio Lower Upper

75 100

53 0.2 101.8 152.6#

89 0.0 35.6 53.4#

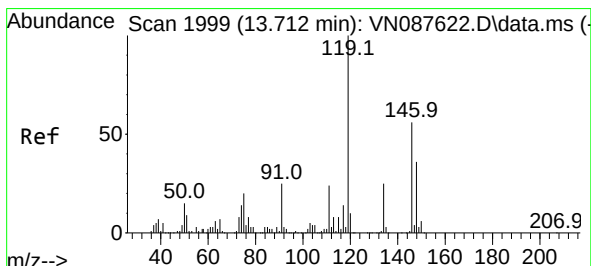
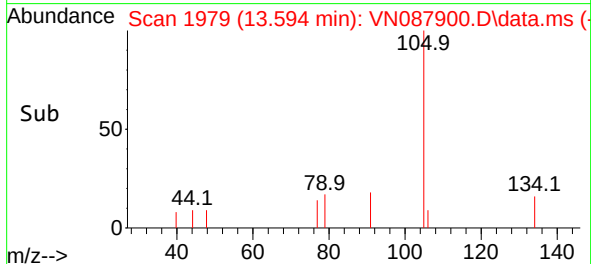
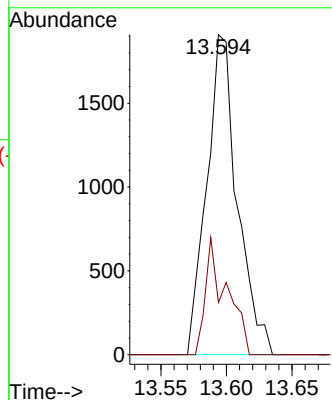
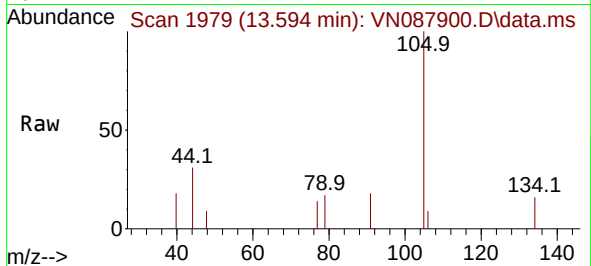




#85
 sec-Butylbenzene
 Concen: 0.207 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. -0.000 min
 Lab File: VN087900.D
 Acq: 19 Sep 2025 10:44

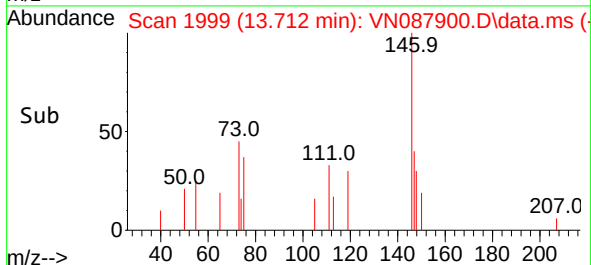
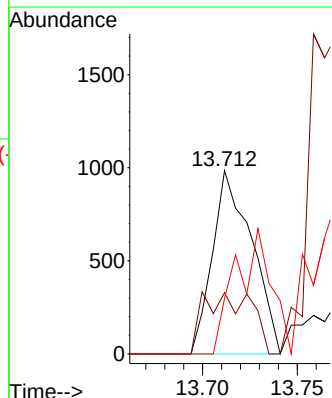
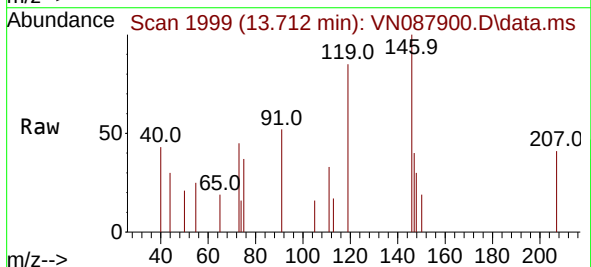
Instrument :
 MSVOA_N
 ClientSampleId :

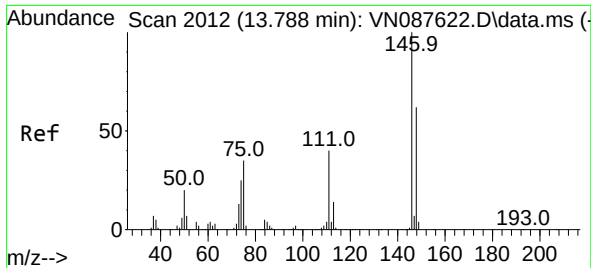
Tgt Ion:105 Resp: 3098
 Ion Ratio Lower Upper
 105 100
 134 25.4 9.6 28.6



#87
 1,3-Dichlorobenzene
 Concen: 0.215 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. -0.000 min
 Lab File: VN087900.D
 Acq: 19 Sep 2025 10:44

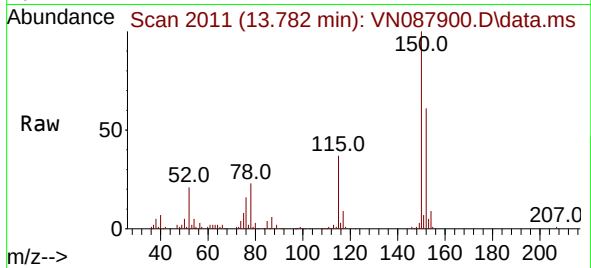
Tgt Ion:146 Resp: 1423
 Ion Ratio Lower Upper
 146 100
 111 40.9 22.1 66.5
 148 0.0 32.0 96.2#



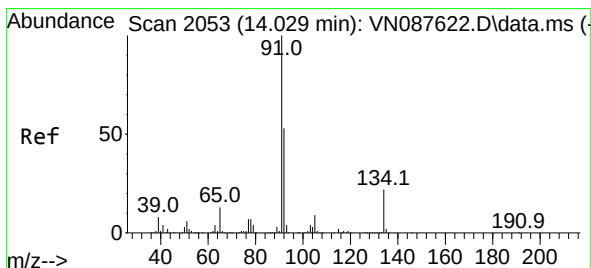
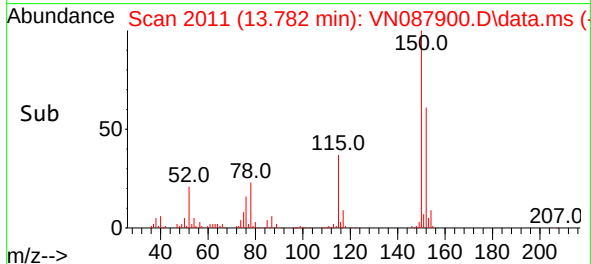
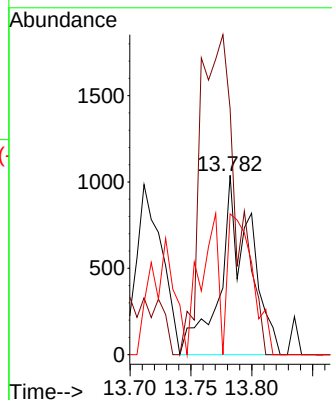


#88
1,4-Dichlorobenzene
Concen: 0.264 ug/l
RT: 13.782 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Instrument :
MSVOA_N
ClientSampleId :

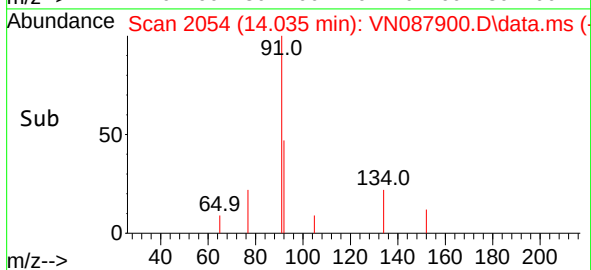
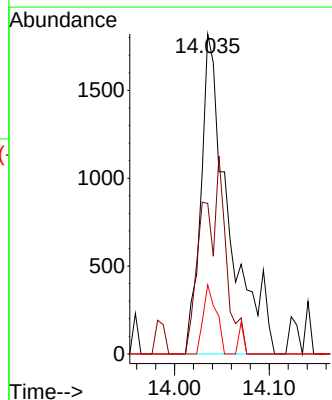
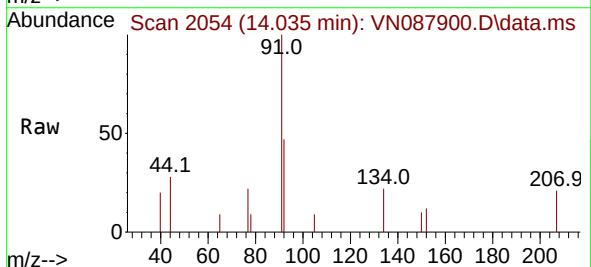


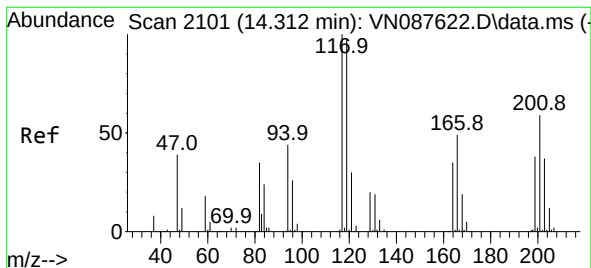
Tgt Ion:146 Resp: 1818
Ion Ratio Lower Upper
146 100
111 211.7 21.0 63.0#
148 64.1 32.0 96.0



#89
n-Butylbenzene
Concen: 0.302 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

Tgt Ion: 91 Resp: 3699
Ion Ratio Lower Upper
91 100
92 28.5 25.9 77.8
134 10.2 11.7 35.0#





#90

Hexachloroethane

Concen: 0.264 ug/l

RT: 14.306 min Scan# 2101

Delta R.T. -0.006 min

Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

Instrument :

MSVOA_N

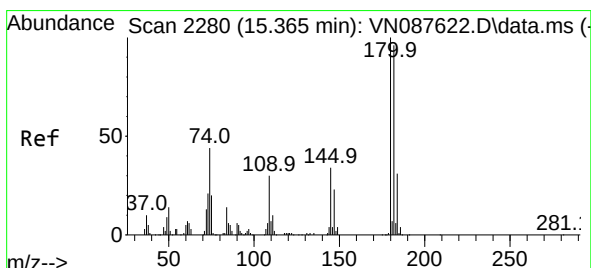
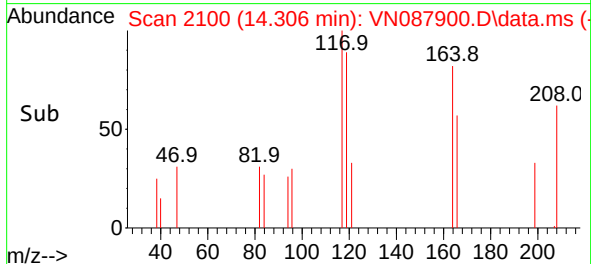
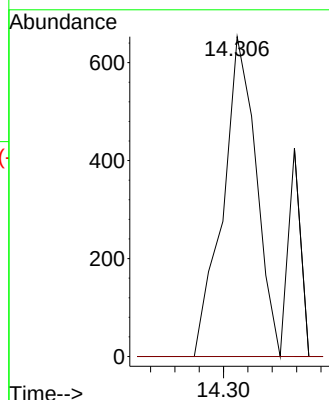
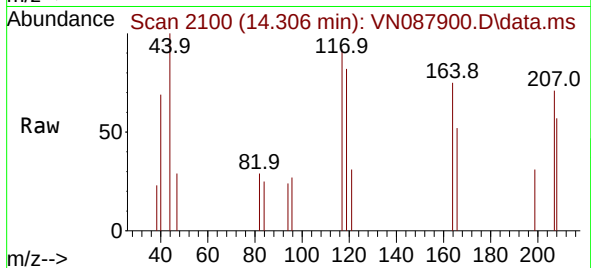
ClientSampleId :

Tgt Ion:117 Resp: 621

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#



#93

1,2,4-Trichlorobenzene

Concen: 0.512 ug/l

RT: 15.376 min Scan# 2282

Delta R.T. 0.012 min

Lab File: VN087900.D

Acq: 19 Sep 2025 10:44

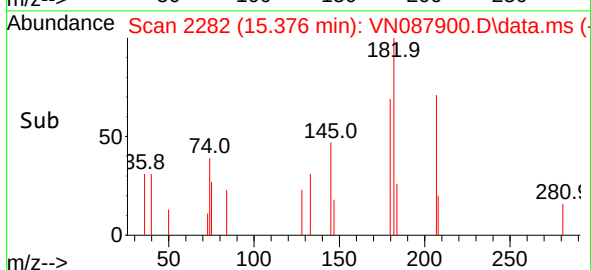
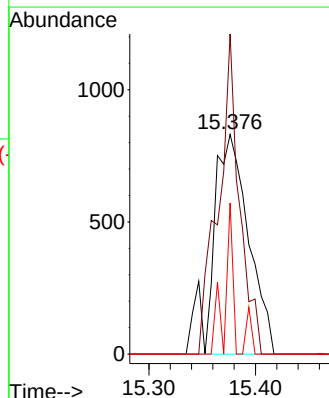
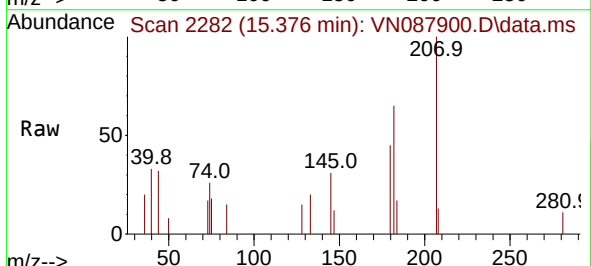
Tgt Ion:180 Resp: 1928

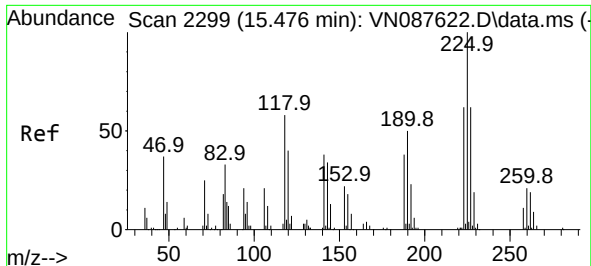
Ion Ratio Lower Upper

180 100

182 86.6 47.6 142.9

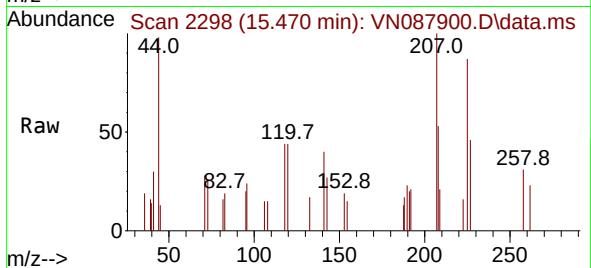
145 15.5 16.5 49.5#



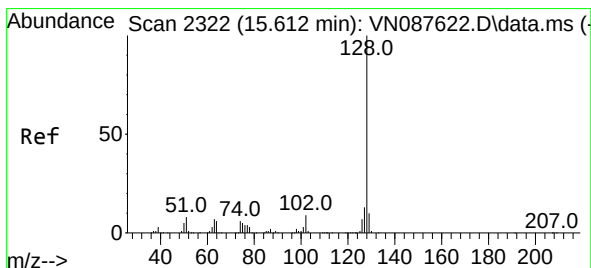
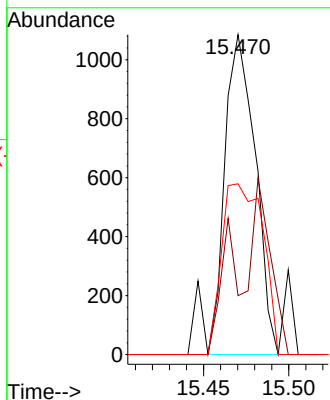
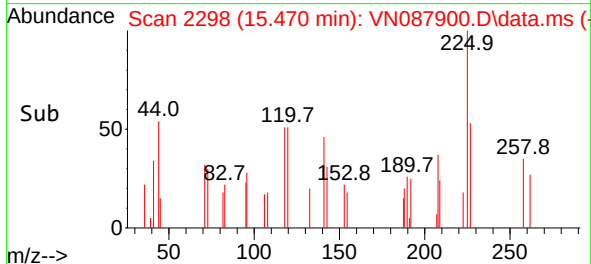


#94
Hexachlorobutadiene
Concen: 1.067 ug/l
RT: 15.470 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44

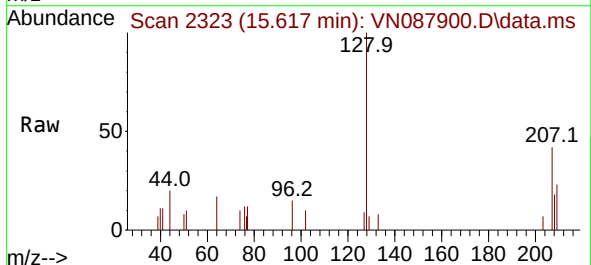
Instrument :
MSVOA_N
ClientSampleId :



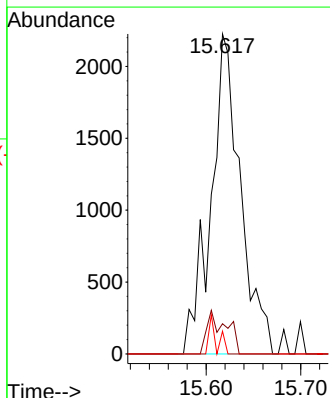
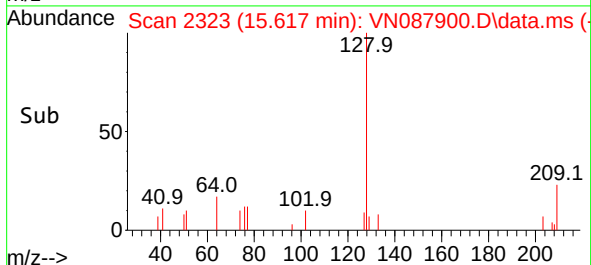
Tgt Ion:225 Resp: 1433
Ion Ratio Lower Upper
225 100
223 20.7 32.0 96.2#
227 67.8 32.1 96.5

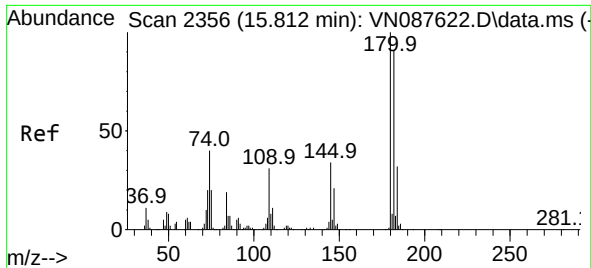


#95
Naphthalene
Concen: 0.363 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN087900.D
Acq: 19 Sep 2025 10:44



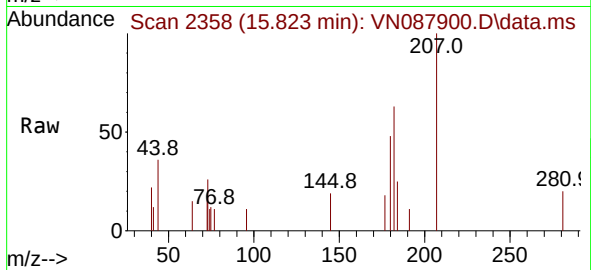
Tgt Ion:128 Resp: 4840
Ion Ratio Lower Upper
128 100
127 8.9 10.6 15.8#
129 3.1 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.355 ug/l
 RT: 15.823 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN087900.D
 Acq: 19 Sep 2025 10:44

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1307
Ion	Ratio	Lower	Upper
180	100		
182	104.4	46.8	140.3
145	41.8	17.3	52.0

