

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091125\
 Data File : VN087797.D
 Acq On : 11 Sep 2025 15:03
 Operator : JC\MD
 Sample : Q3078-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250910074-01-VOA

Quant Time: Sep 12 04:25:09 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)

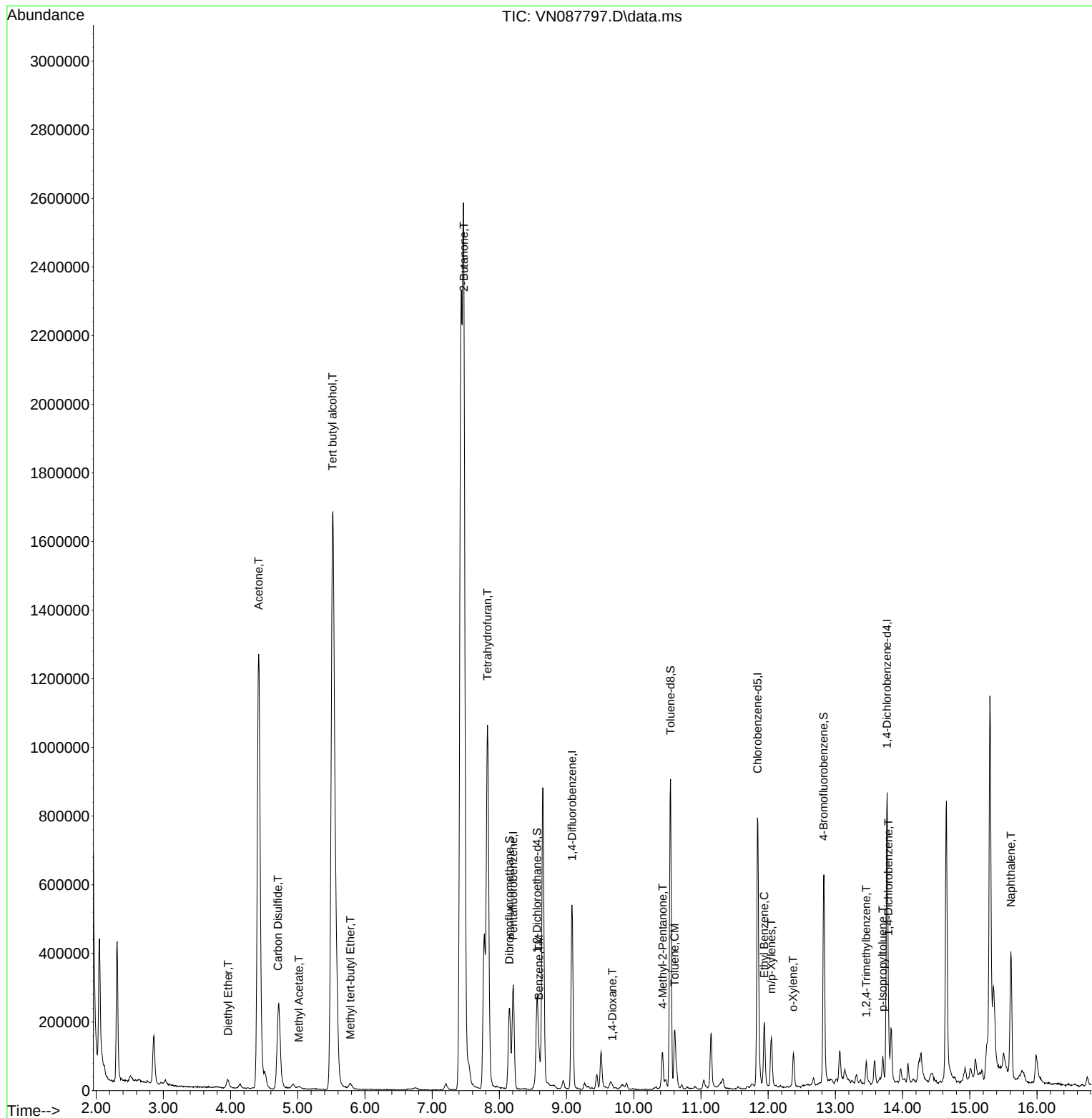
Internal Standards						
1) Pentafluorobenzene	8.206	168	209108	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	464981	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	450268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	215998	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	211796	49.434	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.860%
35) Dibromofluoromethane	8.147	113	170897	50.905	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.820%
50) Toluene-d8	10.547	98	600032	47.753	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.500%
62) 4-Bromofluorobenzene	12.823	95	214630	48.031	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.060%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.965	74	14074	6.233	ug/l	88
11) Tert butyl alcohol	5.518	59	3321774	4466.041	ug/l	98
16) Acetone	4.418	43	2516289	1078.896	ug/l	98
17) Carbon Disulfide	4.706	76	22297	2.686	ug/l	99
18) Methyl Acetate	5.018	43	11950	2.447	ug/l	96
19) Methyl tert-butyl Ether	5.783	73	19781	1.749	ug/l	97
25) 2-Butanone	7.471	43	4007305	1305.988	ug/l	99
29) Tetrahydrofuran	7.824	42	835747	423.228	ug/l	99
40) Benzene	8.588	78	52062	3.296	ug/l	100
49) 1,4-Dioxane	9.682	88	5161	76.614	ug/l #	93
51) 4-Methyl-2-Pentanone	10.429	43	88890	13.408	ug/l	93
52) Toluene	10.606	92	71167	7.267	ug/l	93
67) Ethyl Benzene	11.941	91	129354	6.669	ug/l	99
68) m/p-Xylenes	12.047	106	44673	6.280	ug/l	100
69) o-Xylene	12.371	106	25442	3.650	ug/l	96
84) 1,2,4-Trimethylbenzene	13.459	105	36005	2.429	ug/l	96
86) p-Isopropyltoluene	13.706	119	35295	2.334	ug/l	93
88) 1,4-Dichlorobenzene	13.788	146	31704	3.759	ug/l	92
95) Naphthalene	15.611	128	338258	20.684	ug/l	100

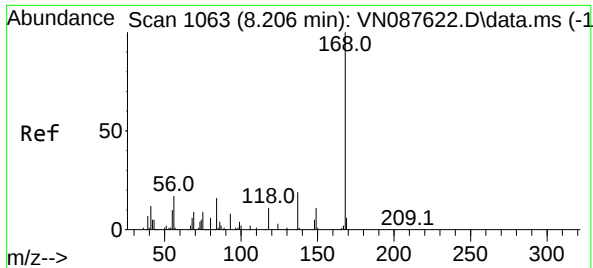
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091125\
Data File : VN087797.D
Acq On : 11 Sep 2025 15:03
Operator : JC\MD
Sample : Q3078-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

Quant Time: Sep 12 04:25:09 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

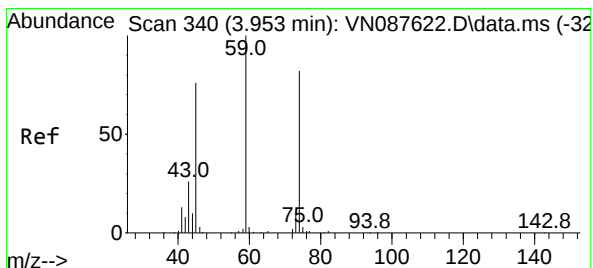
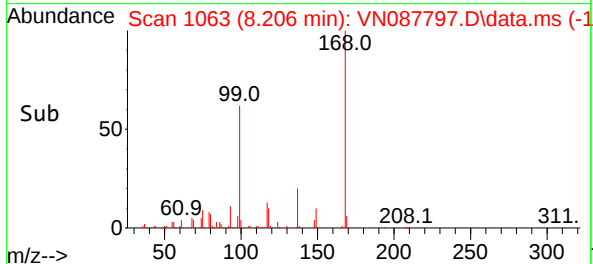
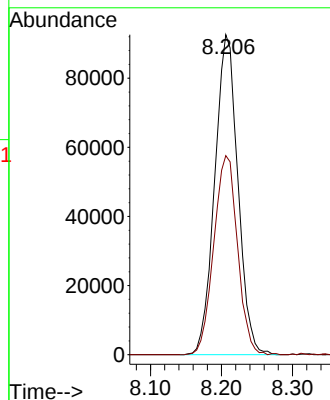
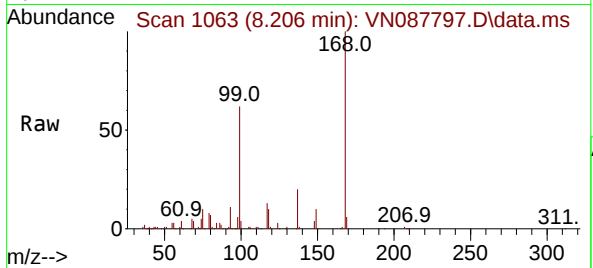




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

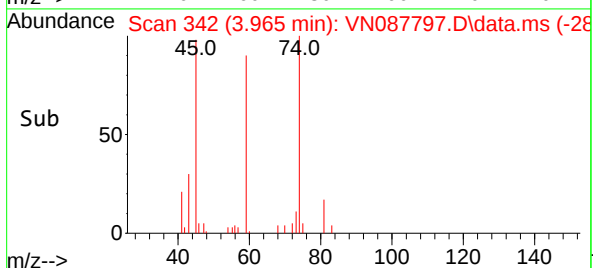
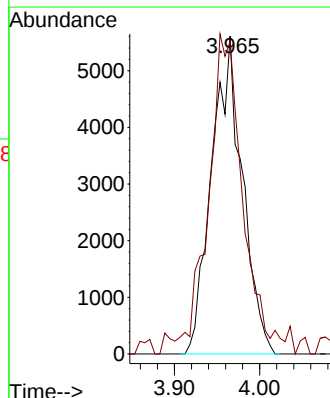
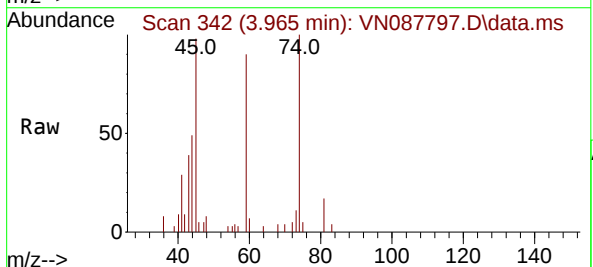
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

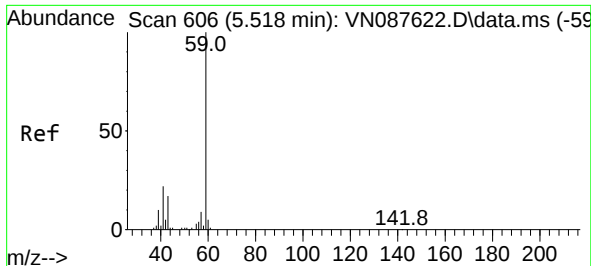
Tgt Ion:168 Resp: 209108
Ion Ratio Lower Upper
168 100
99 62.2 57.2 85.8



#8
Diethyl Ether
Concen: 6.233 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 74 Resp: 14074
Ion Ratio Lower Upper
74 100
45 113.8 50.6 151.9

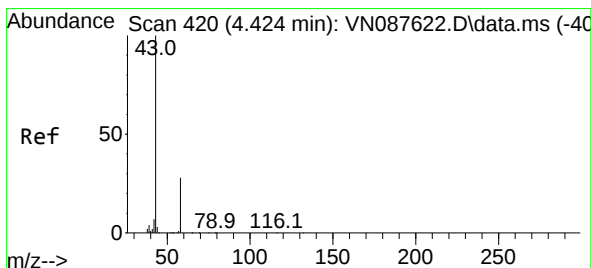
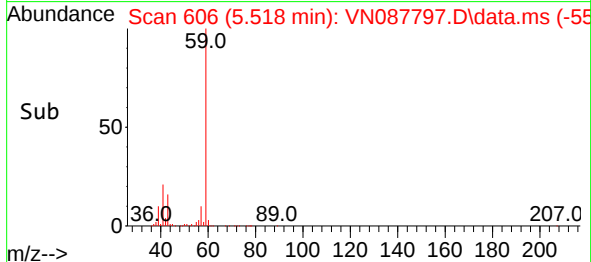
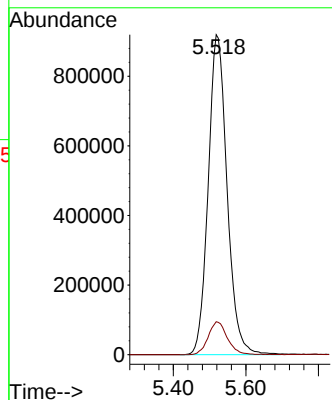
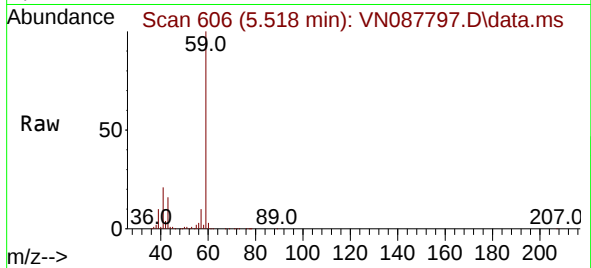




#11
Tert butyl alcohol
Concen: 4466.041 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

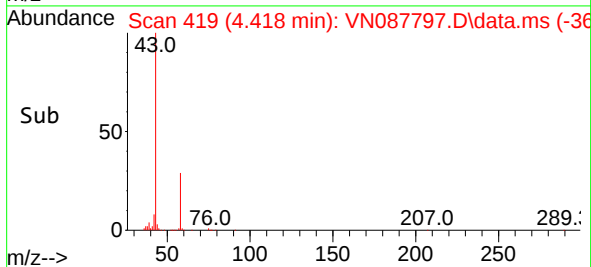
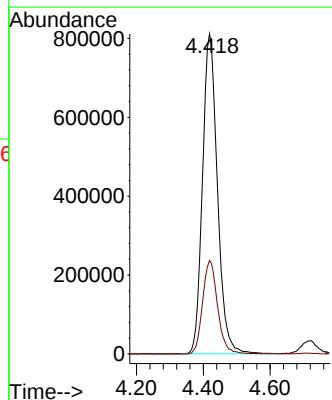
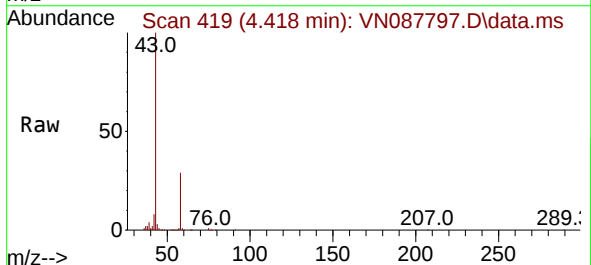
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

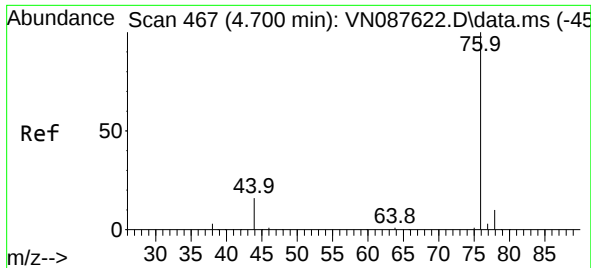
Tgt Ion: 59 Resp: 3321774
Ion Ratio Lower Upper
59 100
57 10.5 9.0 13.4



#16
Acetone
Concen: 1078.896 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 43 Resp: 2516289
Ion Ratio Lower Upper
43 100
58 29.2 22.6 33.8

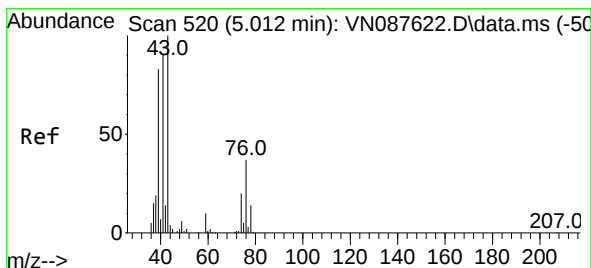
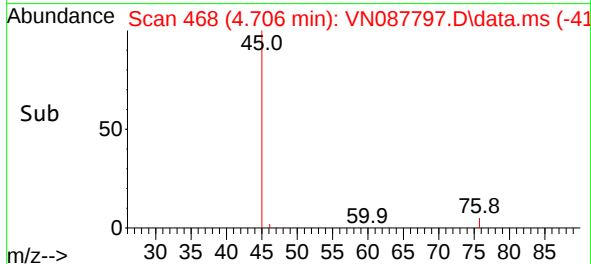
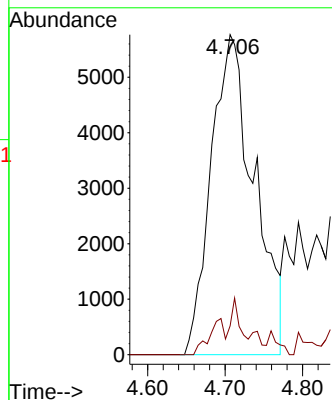
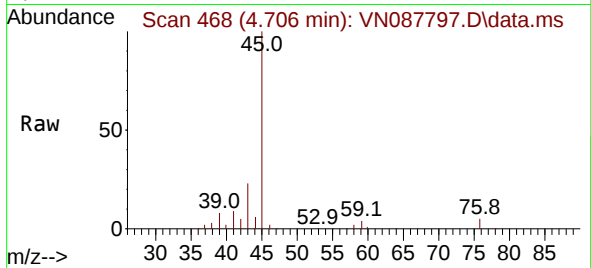




#17
Carbon Disulfide
Concen: 2.686 ug/l
RT: 4.706 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

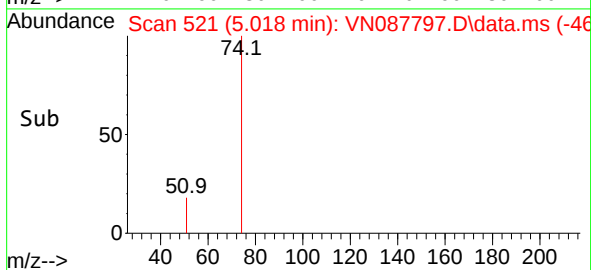
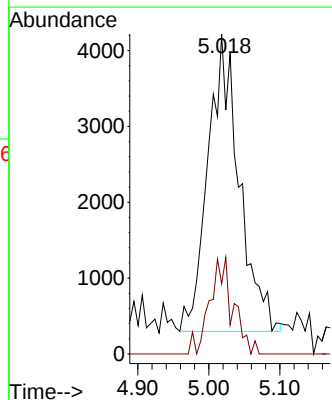
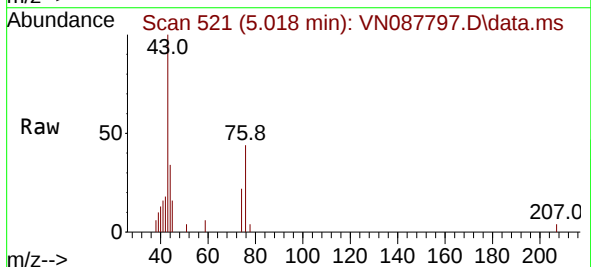
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

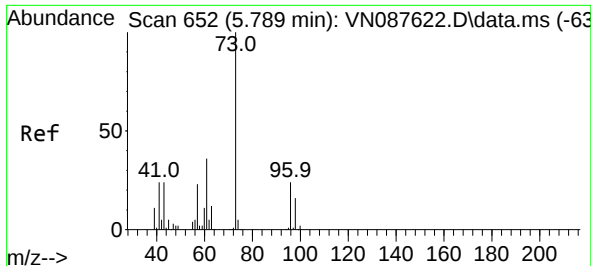
Tgt Ion: 76 Resp: 22297
Ion Ratio Lower Upper
76 100
78 9.0 7.6 11.4



#18
Methyl Acetate
Concen: 2.447 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 43 Resp: 11950
Ion Ratio Lower Upper
43 100
74 24.1 17.6 26.4

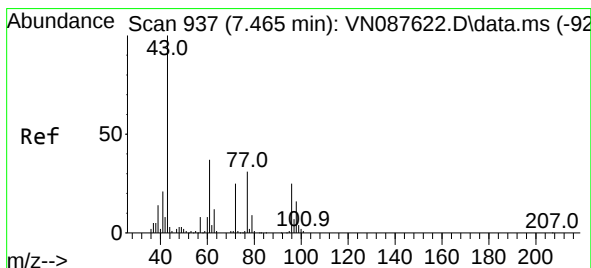
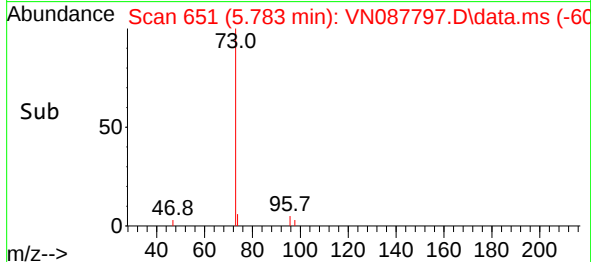
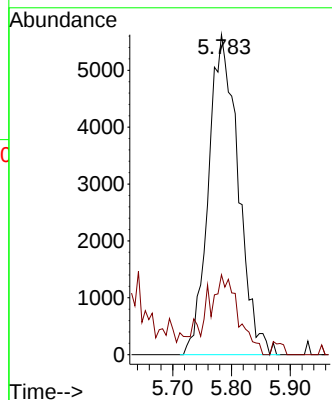
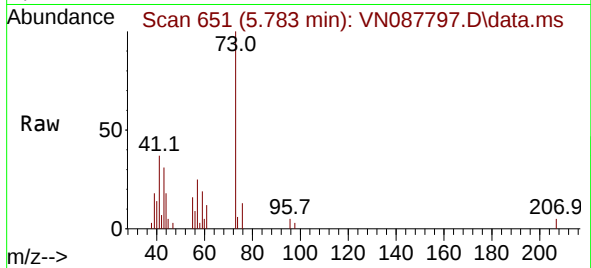




#19
Methyl tert-butyl Ether
Concen: 1.749 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

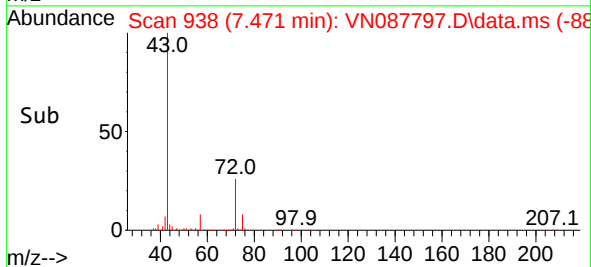
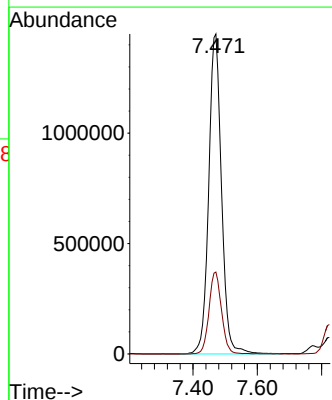
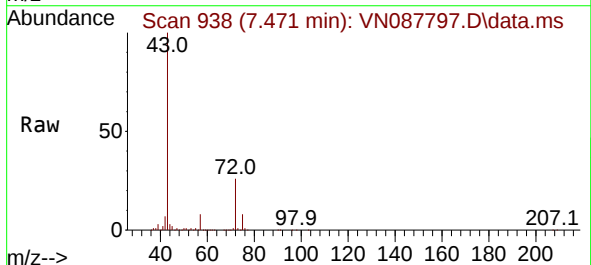
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

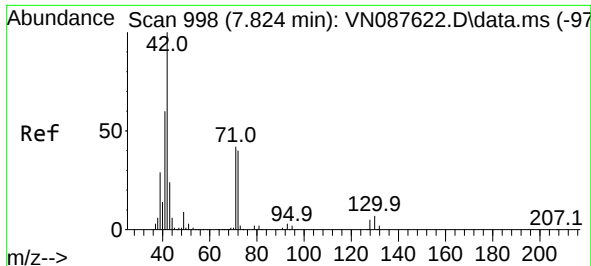
Tgt Ion: 73 Resp: 19781
Ion Ratio Lower Upper
73 100
57 21.4 18.4 27.6



#25
2-Butanone
Concen: 1305.988 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 43 Resp: 4007305
Ion Ratio Lower Upper
43 100
72 25.6 19.9 29.9





#29

Tetrahydrofuran

Concen: 423.228 ug/l

RT: 7.824 min Scan# 998

Delta R.T. -0.000 min

Lab File: VN087797.D

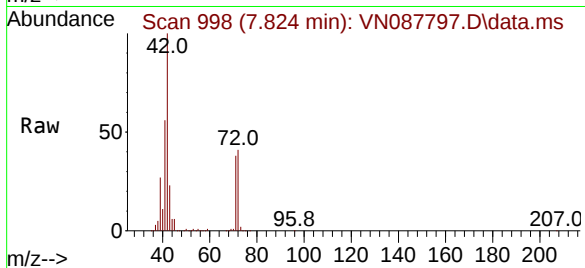
Acq: 11 Sep 2025 15:03

Instrument :

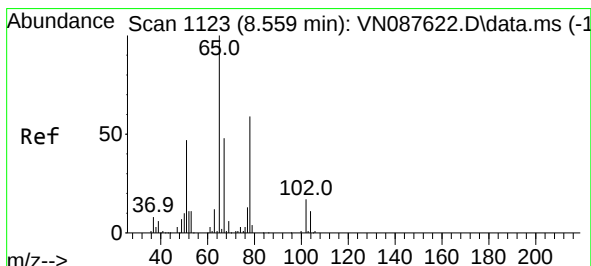
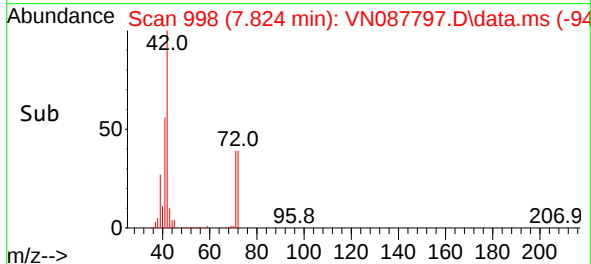
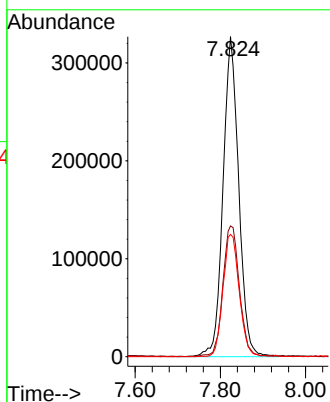
MSVOA_N

ClientSampleId :

250910074-01-VOA



Tgt Ion:	42	Resp:	835747
Ion	Ratio	Lower	Upper
42	100		
72	43.0	33.7	50.5
71	39.5	31.9	47.9



#33

1,2-Dichloroethane-d4

Concen: 49.434 ug/l

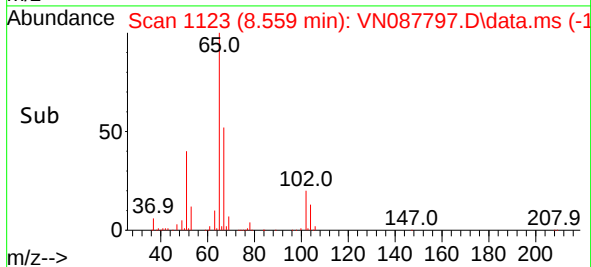
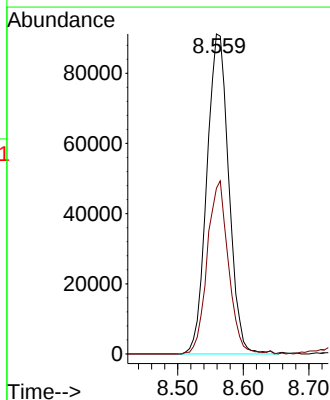
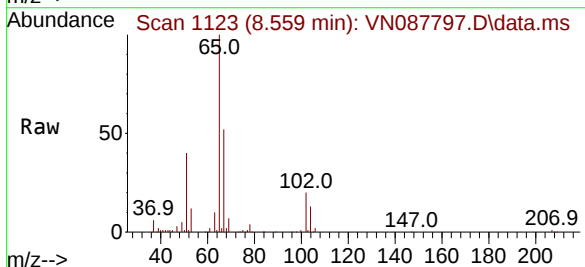
RT: 8.559 min Scan# 1123

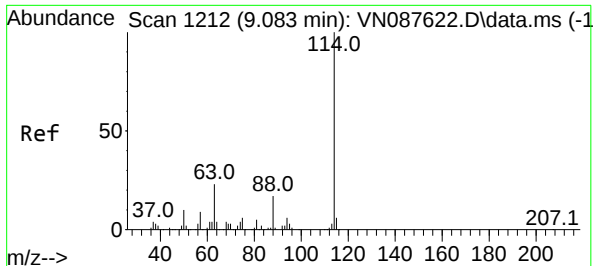
Delta R.T. -0.000 min

Lab File: VN087797.D

Acq: 11 Sep 2025 15:03

Tgt Ion:	65	Resp:	211796
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087797.D

Acq: 11 Sep 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

250910074-01-VOA

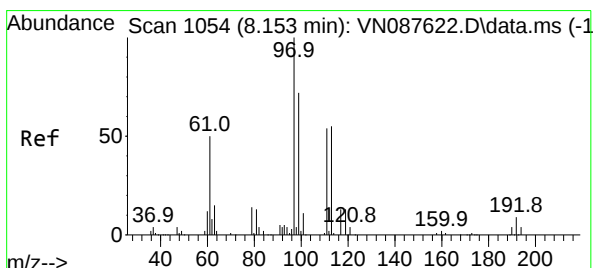
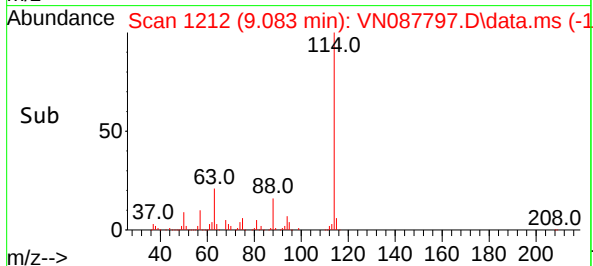
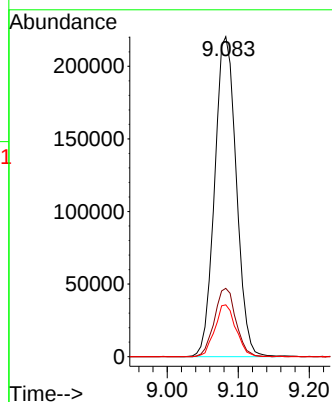
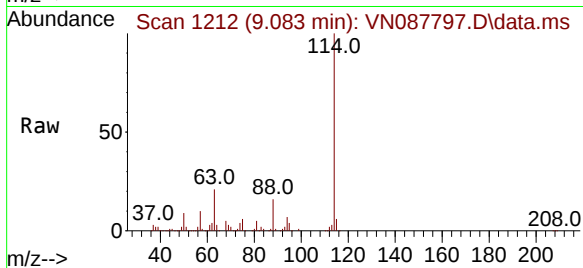
Tgt Ion:114 Resp: 464981

Ion Ratio Lower Upper

114 100

63 21.4 0.0 45.2

88 16.2 0.0 33.4



#35

Dibromofluoromethane

Concen: 50.905 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087797.D

Acq: 11 Sep 2025 15:03

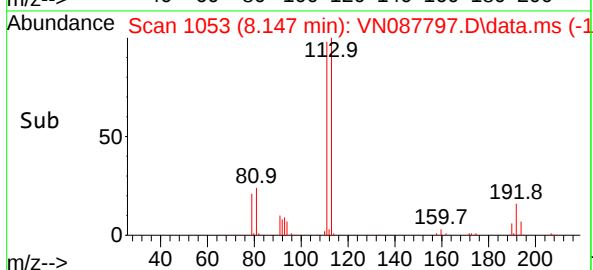
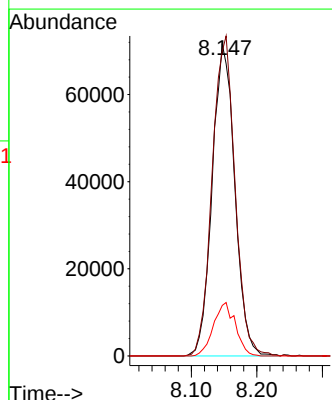
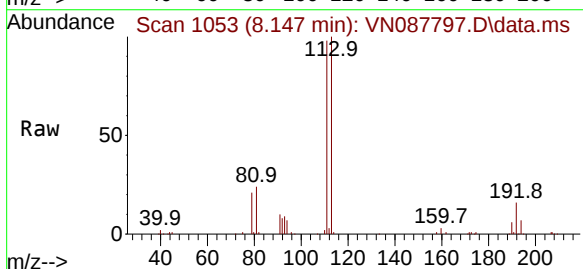
Tgt Ion:113 Resp: 170897

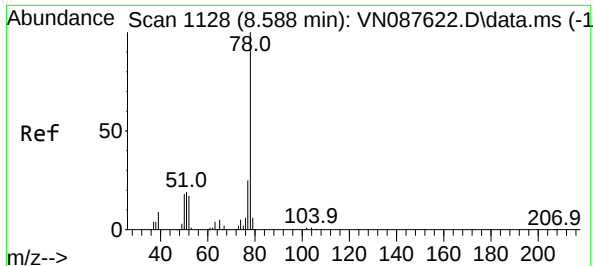
Ion Ratio Lower Upper

113 100

111 103.8 82.8 124.2

192 16.7 12.8 19.2

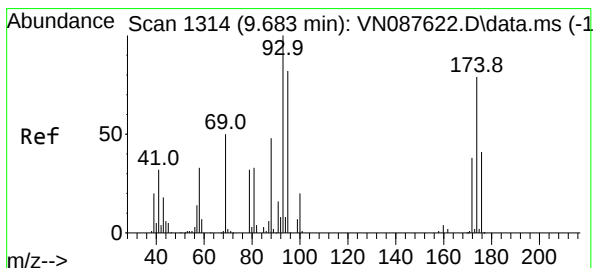
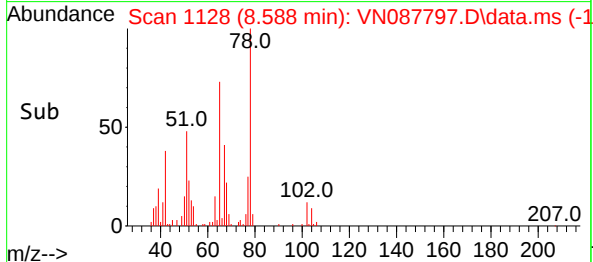
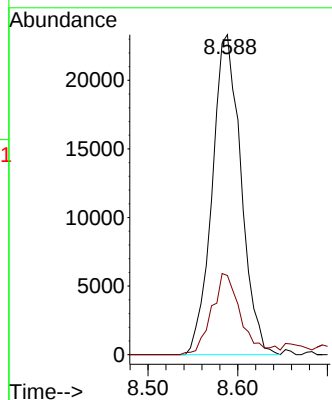
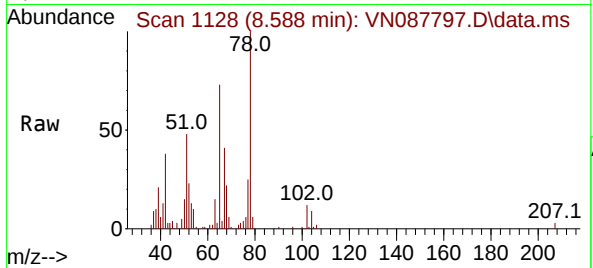




#40
Benzene
Concen: 3.296 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

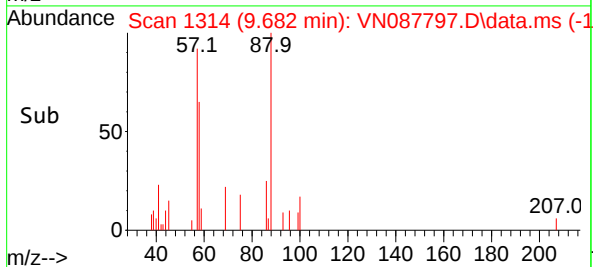
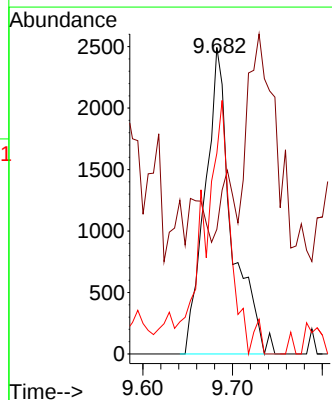
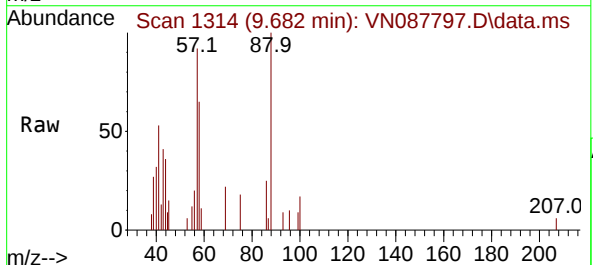
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

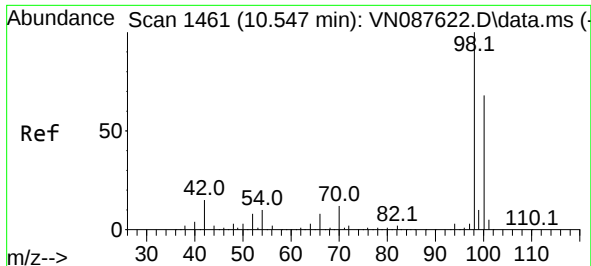
Tgt Ion: 78 Resp: 52062
Ion Ratio Lower Upper
78 100
77 24.7 19.7 29.5



#49
1,4-Dioxane
Concen: 76.614 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 88 Resp: 5161
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 78.6 57.9 86.9

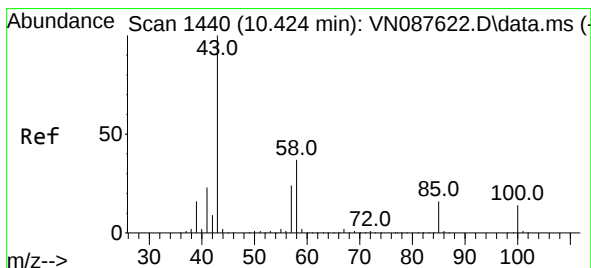
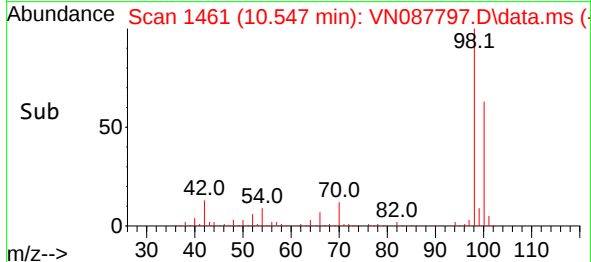
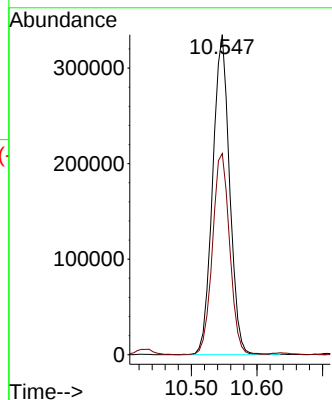
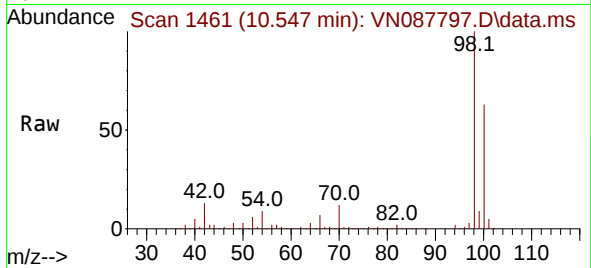




#50
Toluene-d8
Concen: 47.753 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

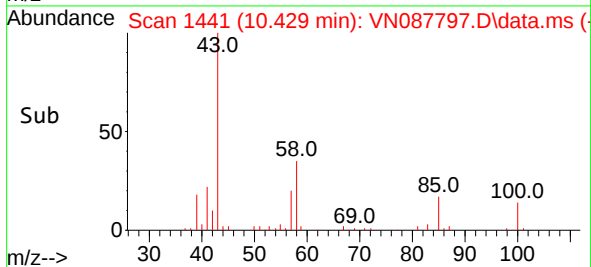
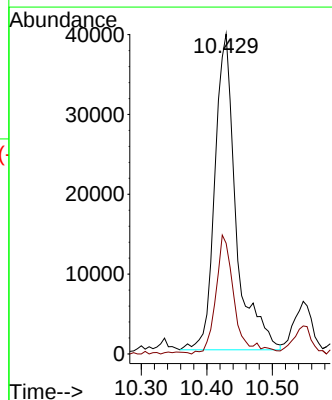
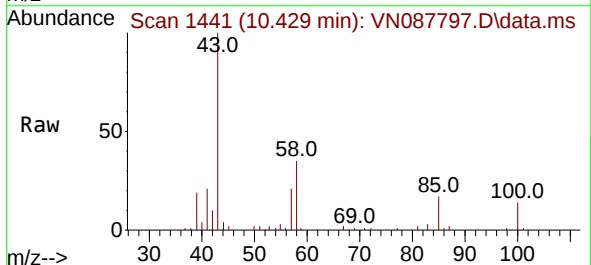
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

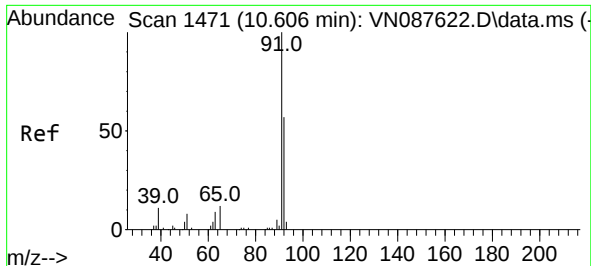
Tgt Ion: 98 Resp: 600032
Ion Ratio Lower Upper
98 100
100 63.8 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 13.408 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 43 Resp: 88890
Ion Ratio Lower Upper
43 100
58 33.0 29.6 44.4

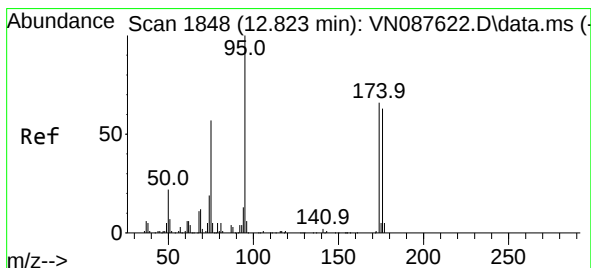
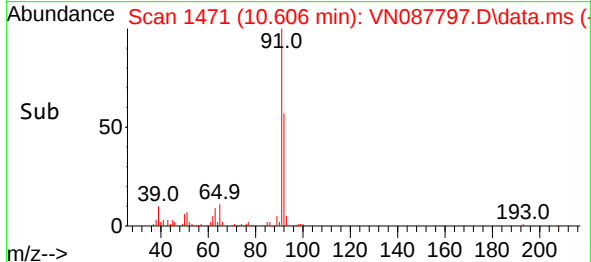
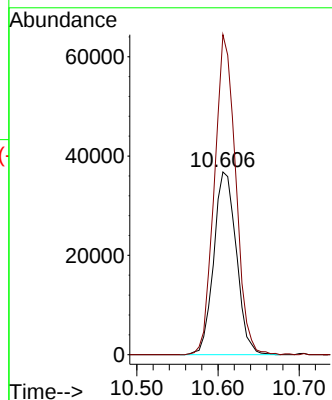
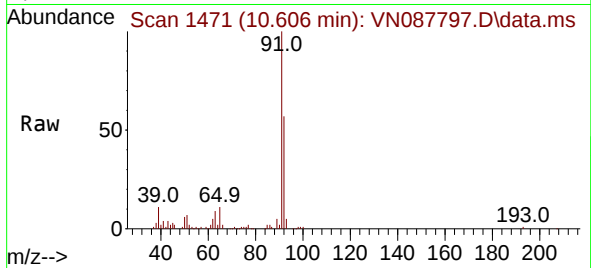




#52
Toluene
Concen: 7.267 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

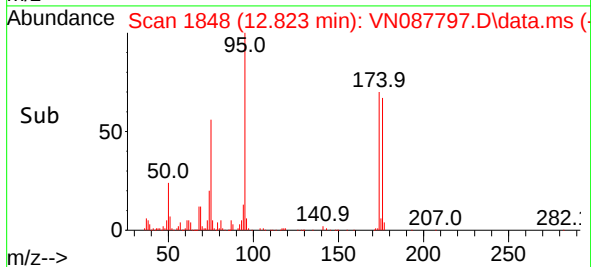
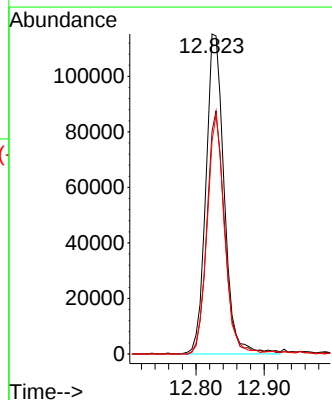
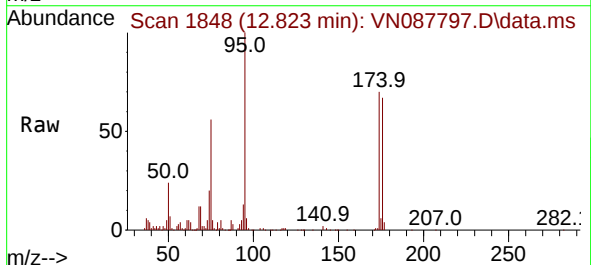
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

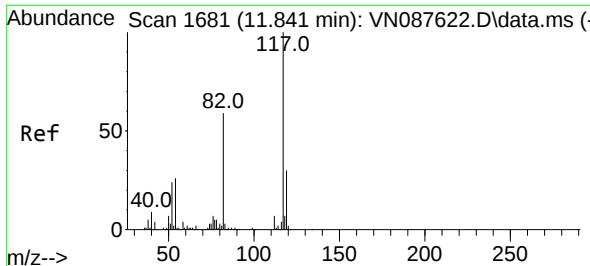
Tgt Ion: 92 Resp: 71167
Ion Ratio Lower Upper
92 100
91 165.2 140.4 210.6



#62
4-Bromofluorobenzene
Concen: 48.031 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 95 Resp: 214630
Ion Ratio Lower Upper
95 100
174 73.5 0.0 138.4
176 71.5 0.0 132.6

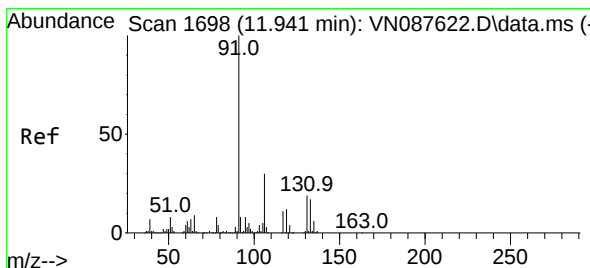
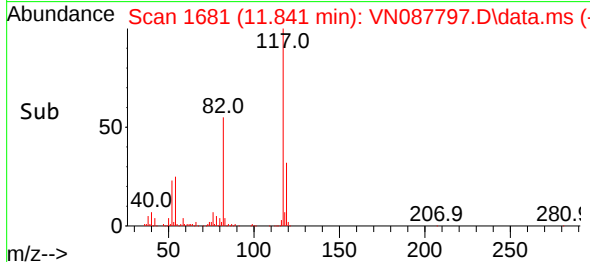
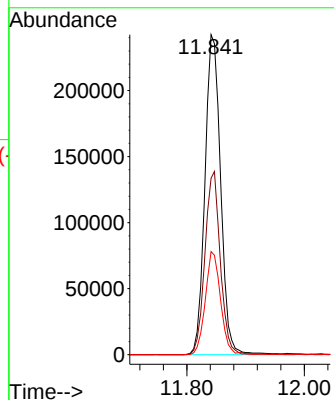
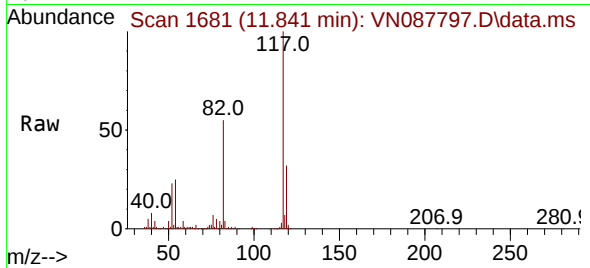




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

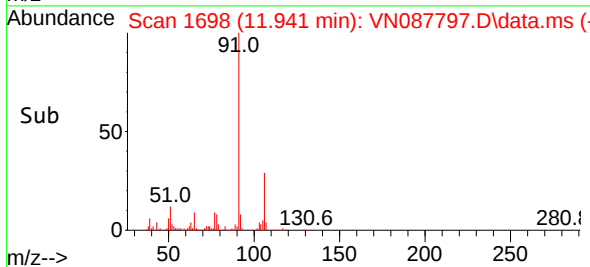
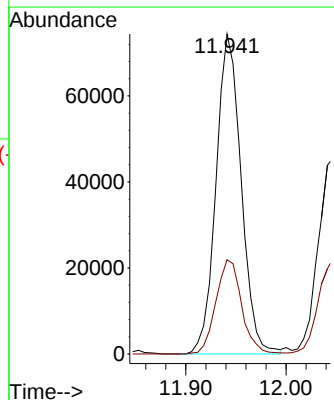
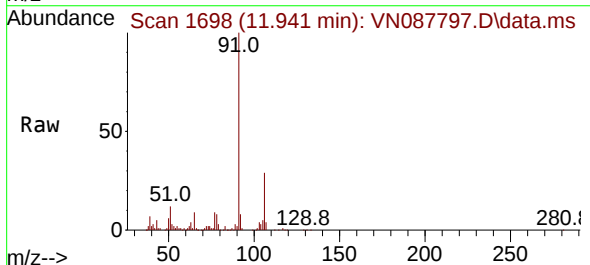
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

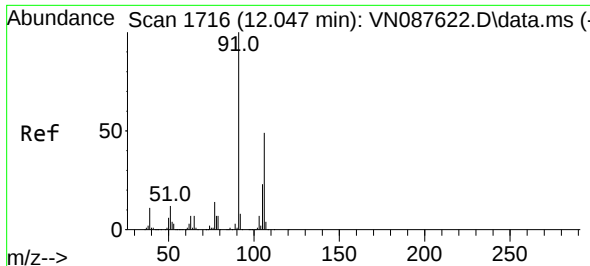
Tgt Ion:117 Resp: 450268
Ion Ratio Lower Upper
117 100
82 55.2 47.4 71.2
119 32.2 24.3 36.5



#67
Ethyl Benzene
Concen: 6.669 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion: 91 Resp: 129354
Ion Ratio Lower Upper
91 100
106 29.4 24.1 36.1

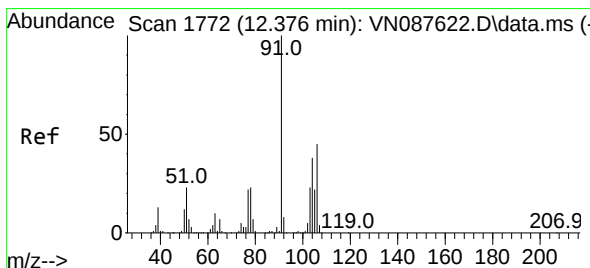
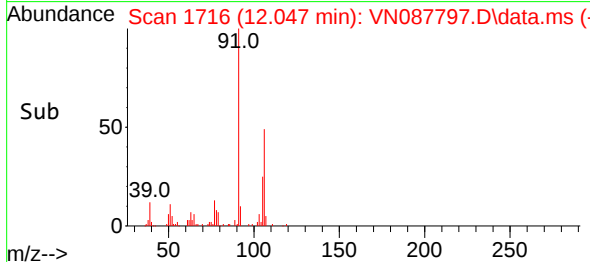
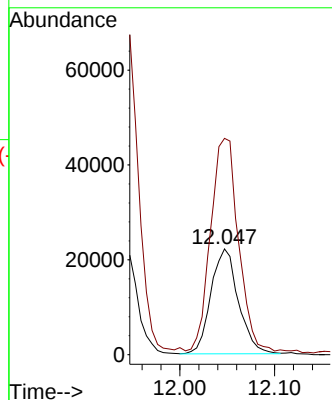
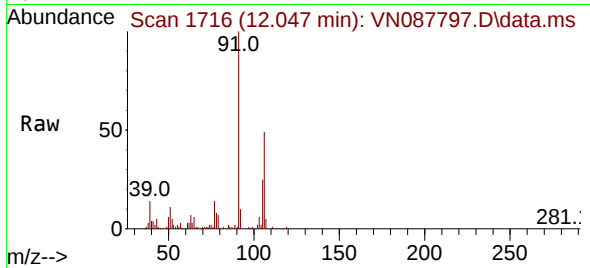




#68
m/p-Xylenes
Concen: 6.280 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

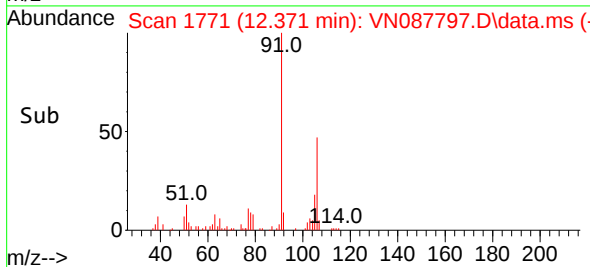
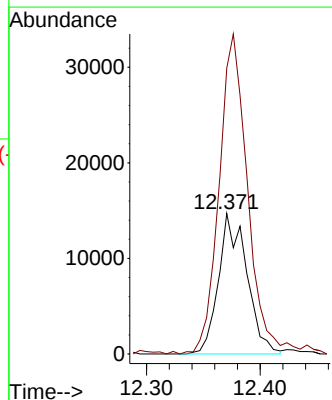
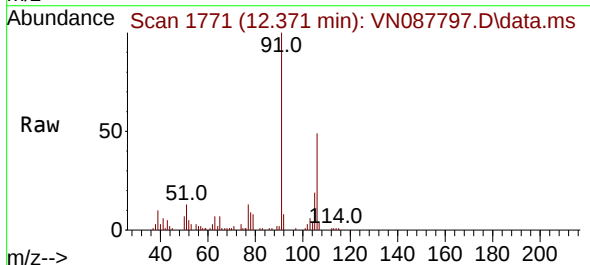
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOA

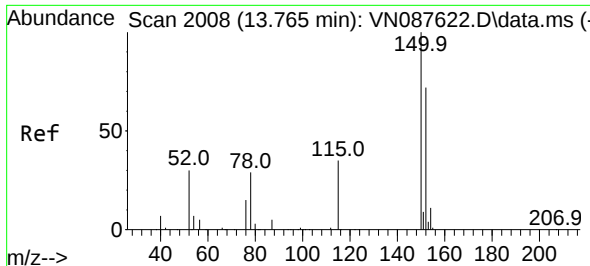
Tgt Ion:106 Resp: 44673
Ion Ratio Lower Upper
106 100
91 212.1 169.3 253.9



#69
o-Xylene
Concen: 3.650 ug/l
RT: 12.371 min Scan# 1771
Delta R.T. -0.006 min
Lab File: VN087797.D
Acq: 11 Sep 2025 15:03

Tgt Ion:106 Resp: 25442
Ion Ratio Lower Upper
106 100
91 229.5 111.4 334.2

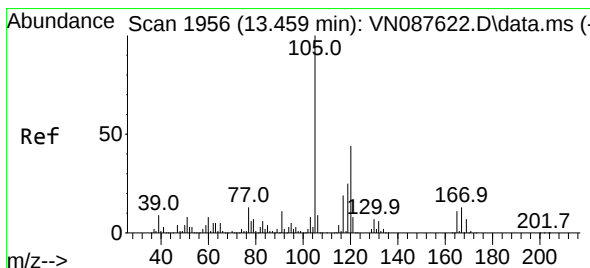
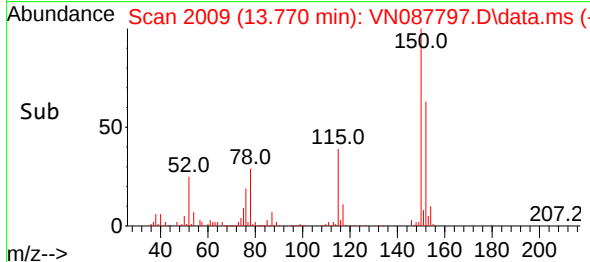
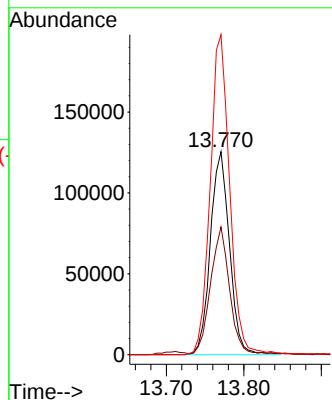
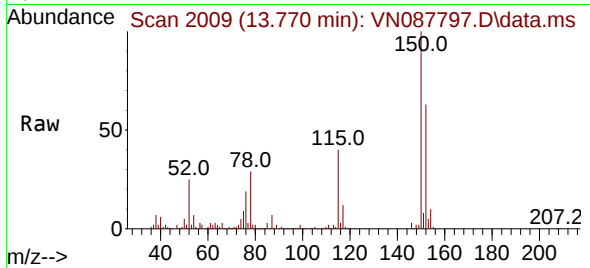




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2008
 Delta R.T. 0.006 min
 Lab File: VN087797.D
 Acq: 11 Sep 2025 15:03

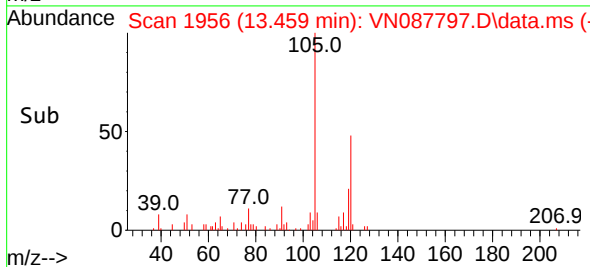
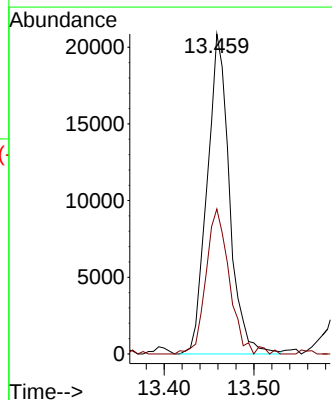
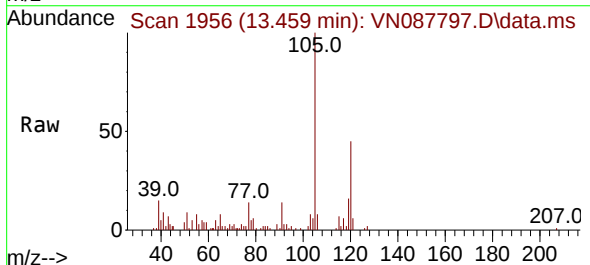
Instrument :
 MSVOA_N
 ClientSampleId :
 250910074-01-VOA

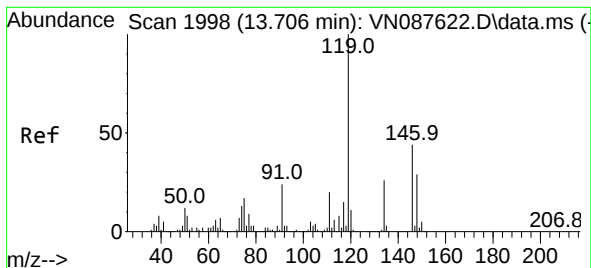
Tgt Ion:152 Resp: 215998
 Ion Ratio Lower Upper
 152 100
 115 62.6 32.3 96.8
 150 160.2 0.0 351.0



#84
 1,2,4-Trimethylbenzene
 Concen: 2.429 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VN087797.D
 Acq: 11 Sep 2025 15:03

Tgt Ion:105 Resp: 36005
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.0 66.0





#86

p-Isopropyltoluene

Concen: 2.334 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. -0.000 min

Lab File: VN087797.D

Acq: 11 Sep 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

250910074-01-VOA

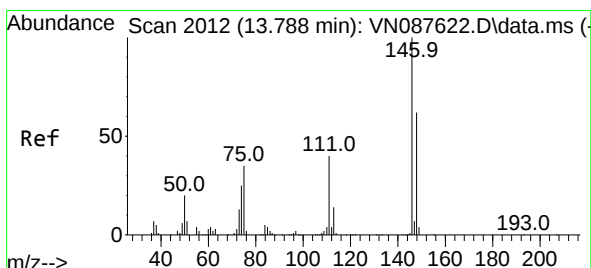
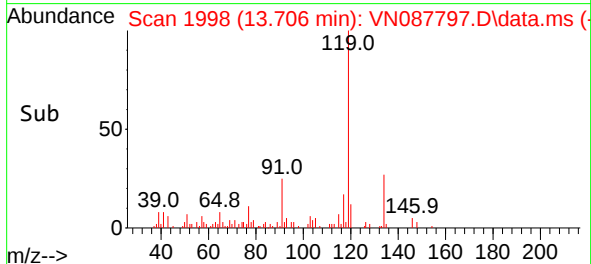
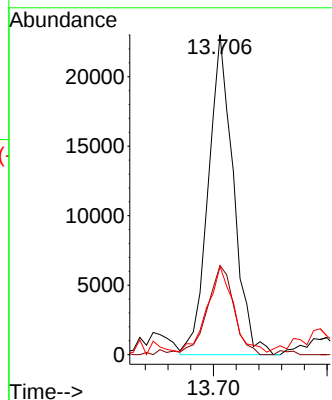
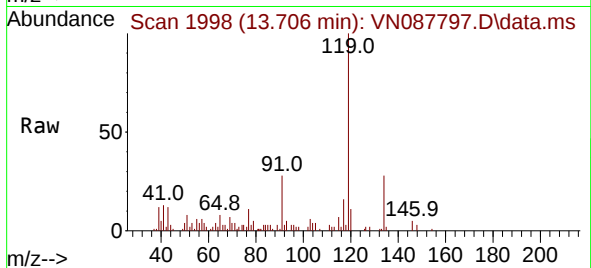
Tgt Ion:119 Resp: 35295

Ion Ratio Lower Upper

119 100

134 29.6 12.7 38.0

91 27.5 12.5 37.5



#88

1,4-Dichlorobenzene

Concen: 3.759 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN087797.D

Acq: 11 Sep 2025 15:03

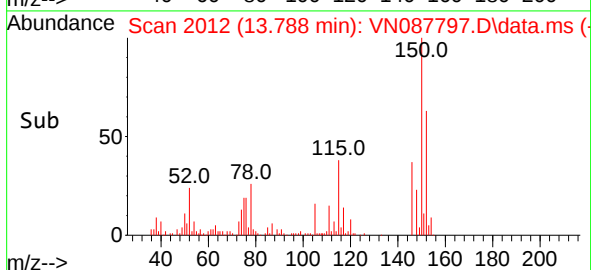
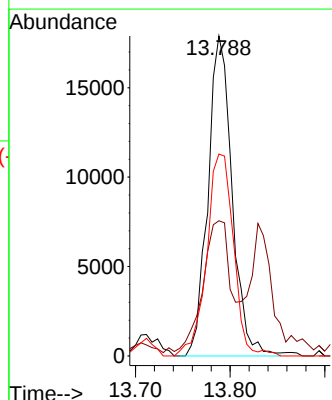
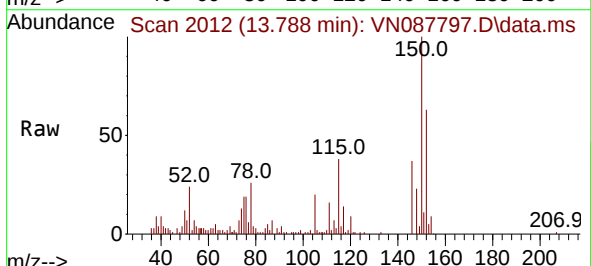
Tgt Ion:146 Resp: 31704

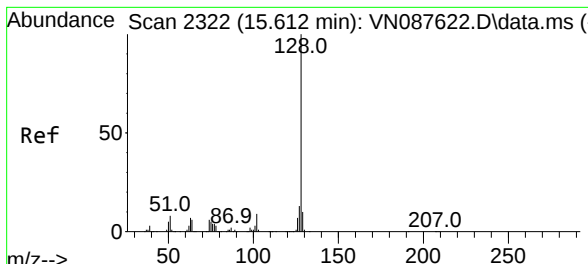
Ion Ratio Lower Upper

146 100

111 46.3 21.0 63.0

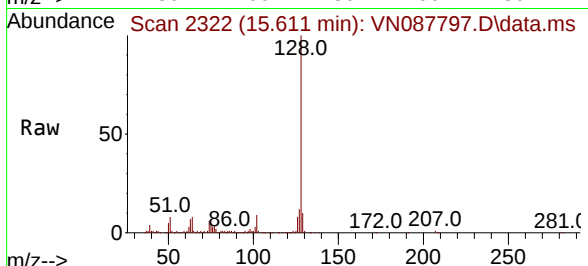
148 70.2 32.0 96.0





#95
 Naphthalene
 Concen: 20.684 ug/l
 RT: 15.611 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN087797.D
 Acq: 11 Sep 2025 15:03

Instrument :
 MSVOA_N
 ClientSampleId :
 250910074-01-VOA



Tgt Ion:	128	Resp:	338258
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	15.8
129	10.8	8.6	12.8

