

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091125\
 Data File : VN087807.D
 Acq On : 11 Sep 2025 18:32
 Operator : JC\MD
 Sample : Q3078-01DL 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250910074-01-VOADL

Quant Time: Sep 12 04:20:58 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)

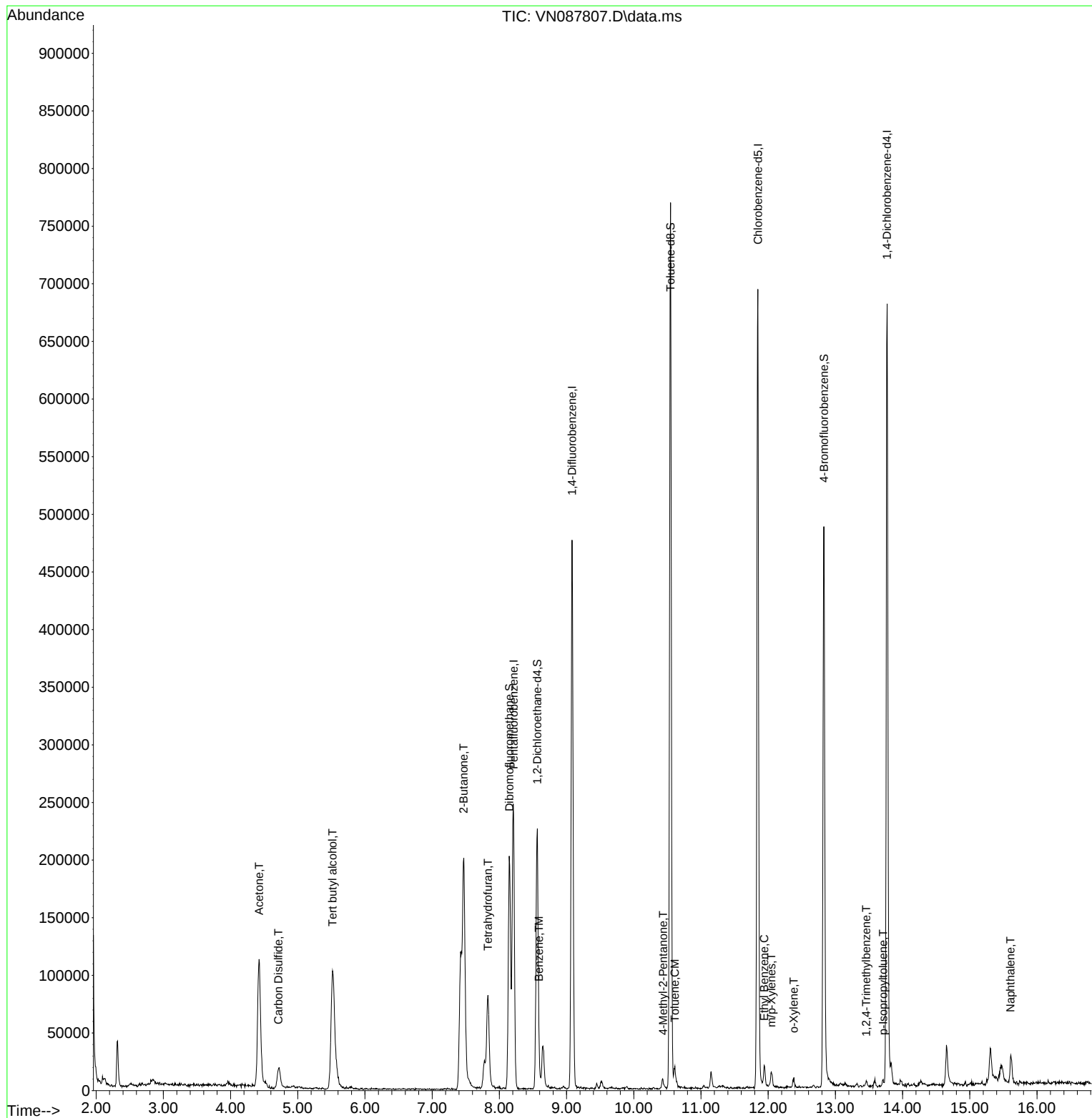
Internal Standards						
1) Pentafluorobenzene	8.212	168	176010	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	395199	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	377973	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	182604	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	184426	51.141	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 102.280%		
35) Dibromofluoromethane	8.147	113	145802	51.099	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.200%		
50) Toluene-d8	10.547	98	503787	47.173	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 94.340%		
62) 4-Bromofluorobenzene	12.829	95	172489	45.416	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 90.840%		
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.518	59	194467	310.622	ug/l	99
16) Acetone	4.424	43	217527	110.807	ug/l	99
17) Carbon Disulfide	4.712	76	5683	0.813	ug/l	97
25) 2-Butanone	7.471	43	324065	125.474	ug/l	98
29) Tetrahydrofuran	7.830	42	61891	37.236	ug/l	98
40) Benzene	8.588	78	5631	0.419	ug/l #	82
51) 4-Methyl-2-Pentanone	10.435	43	6926	1.229	ug/l	97
52) Toluene	10.612	92	6365	0.765	ug/l	98
67) Ethyl Benzene	11.941	91	11471	0.705	ug/l	100
68) m/p-Xylenes	12.047	106	3715	0.622	ug/l	89
69) o-Xylene	12.382	106	1927	0.329	ug/l	70
84) 1,2,4-Trimethylbenzene	13.459	105	3609	0.288	ug/l	85
86) p-Isopropyltoluene	13.712	119	3216	0.252	ug/l	82
95) Naphthalene	15.606	128	24263	1.755	ug/l	99

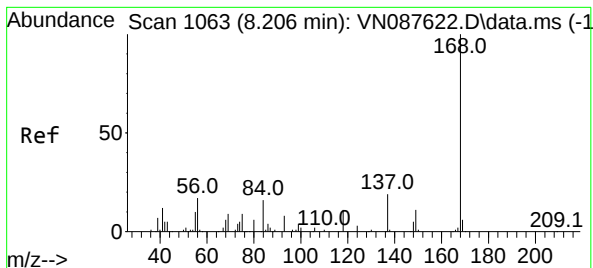
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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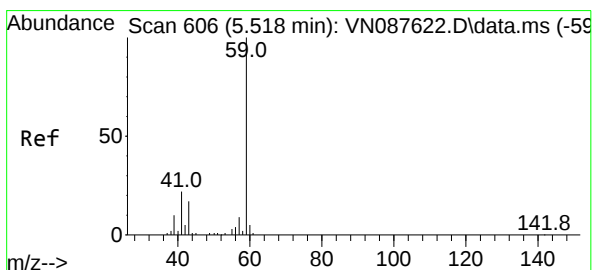
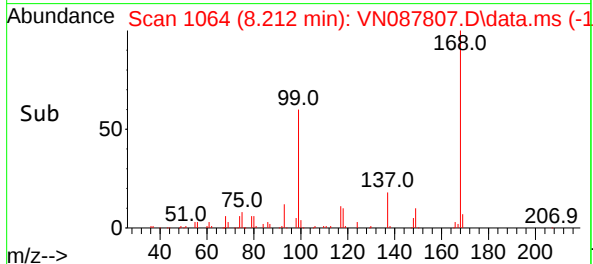
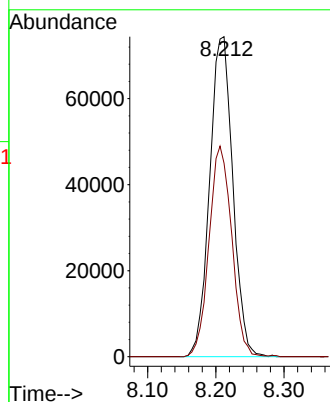
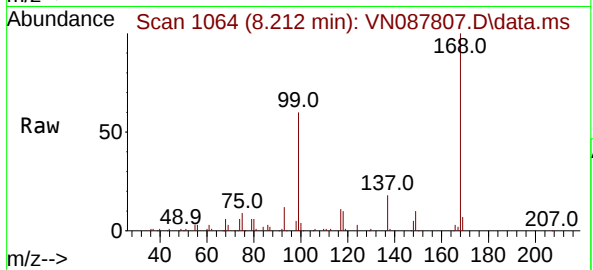




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

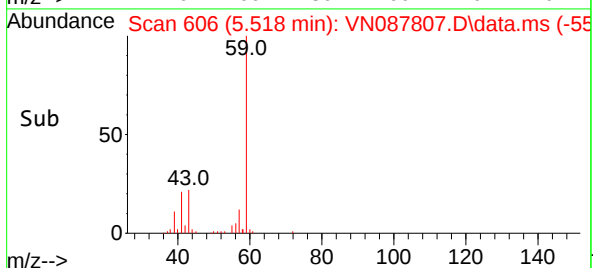
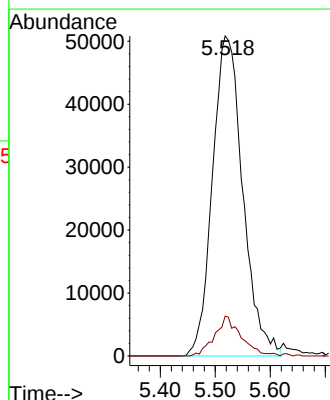
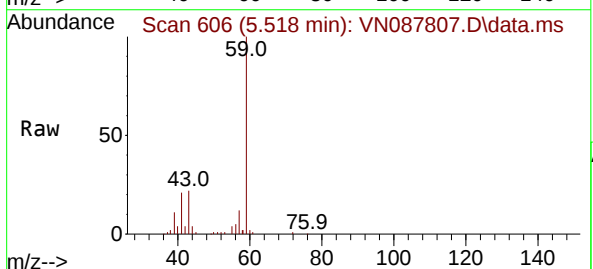
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOADL

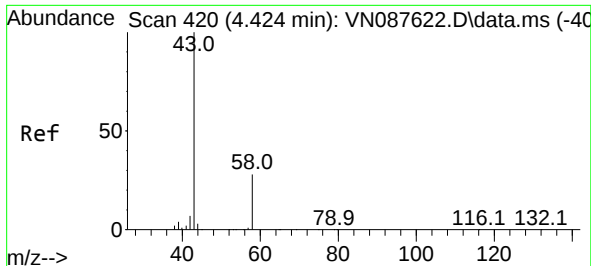
Tgt Ion:168 Resp: 176010
Ion Ratio Lower Upper
168 100
99 60.4 57.2 85.8



#11
Tert butyl alcohol
Concen: 310.622 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

Tgt Ion: 59 Resp: 194467
Ion Ratio Lower Upper
59 100
57 10.8 9.0 13.4

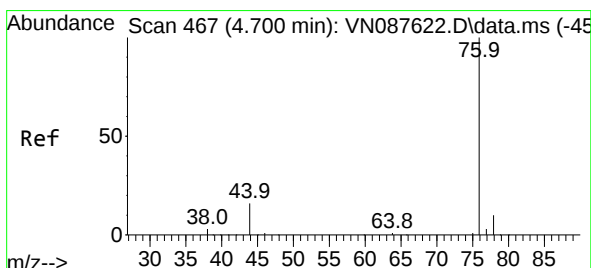
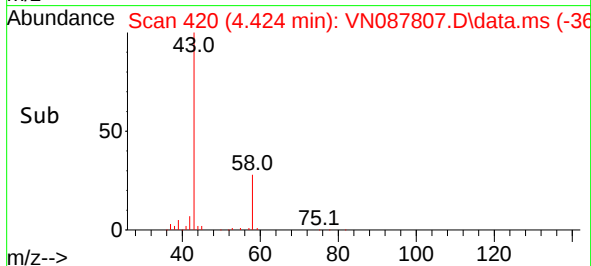
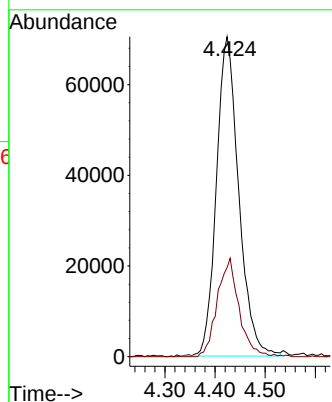
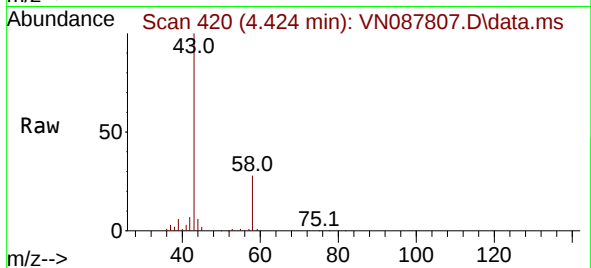




#16
Acetone
Concen: 110.807 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

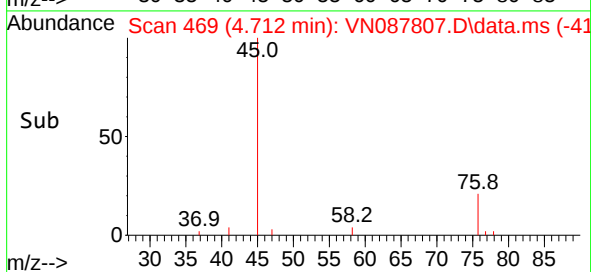
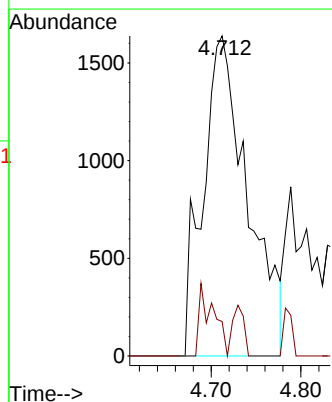
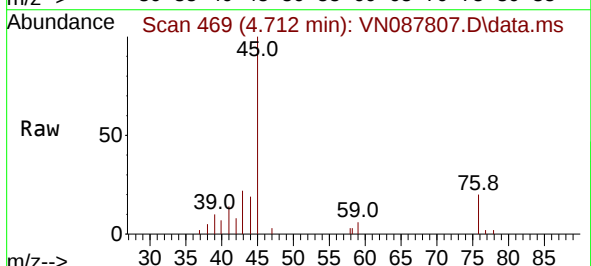
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOADL

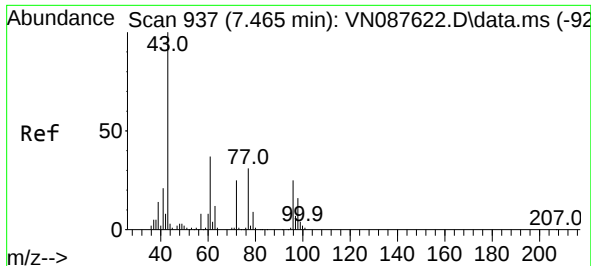
Tgt Ion: 43 Resp: 217527
Ion Ratio Lower Upper
43 100
58 27.9 22.6 33.8



#17
Carbon Disulfide
Concen: 0.813 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.012 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

Tgt Ion: 76 Resp: 5683
Ion Ratio Lower Upper
76 100
78 10.7 7.6 11.4

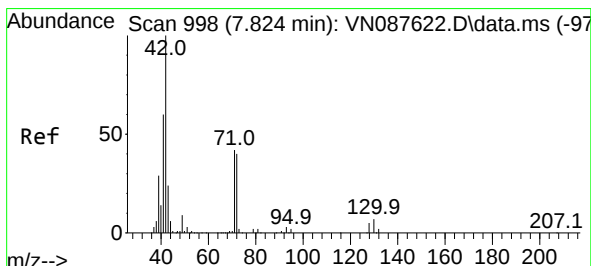
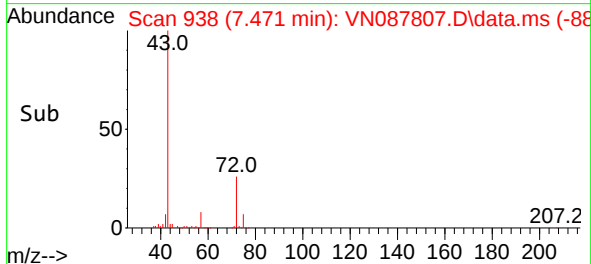
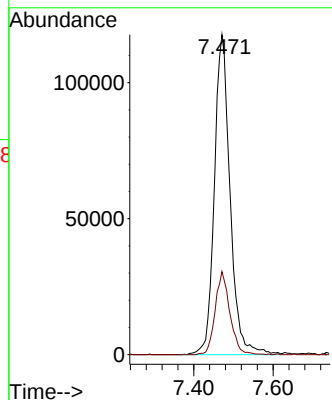
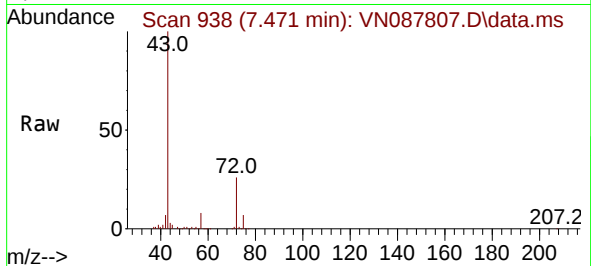




#25
2-Butanone
Concen: 125.474 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

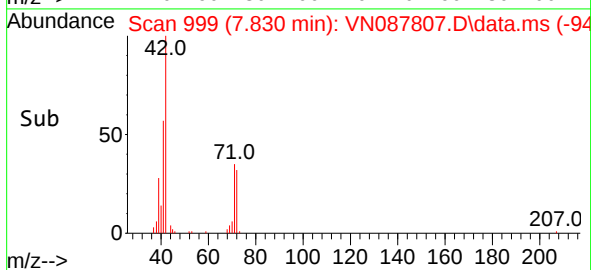
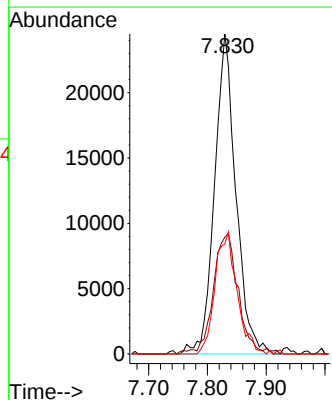
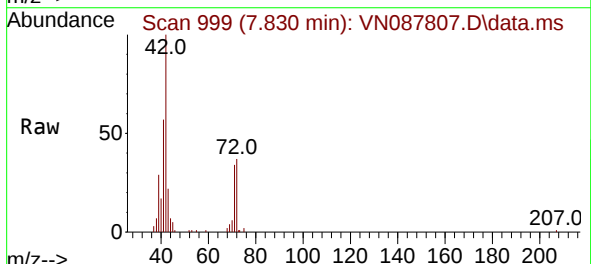
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOADL

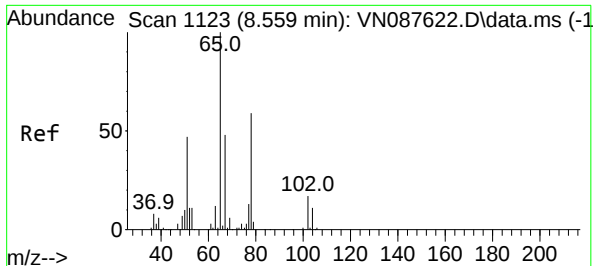
Tgt Ion: 43 Resp: 324065
Ion Ratio Lower Upper
43 100
72 26.0 19.9 29.9



#29
Tetrahydrofuran
Concen: 37.236 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

Tgt Ion: 42 Resp: 61891
Ion Ratio Lower Upper
42 100
72 43.6 33.7 50.5
71 38.9 31.9 47.9





#33

1,2-Dichloroethane-d4

Concen: 51.141 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087807.D

Acq: 11 Sep 2025 18:32

Instrument :

MSVOA_N

ClientSampleId :

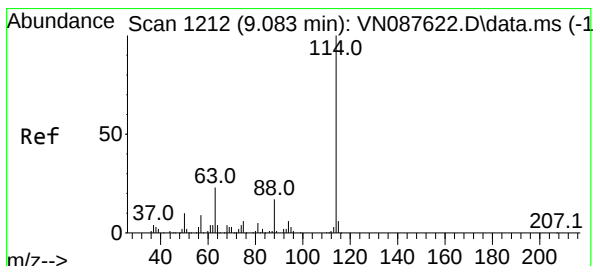
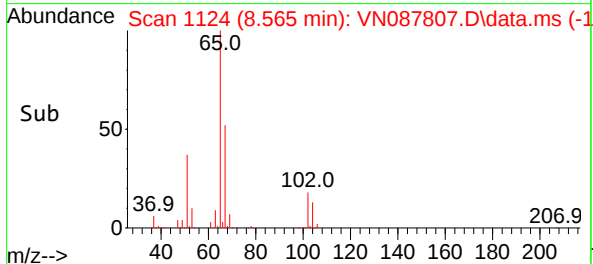
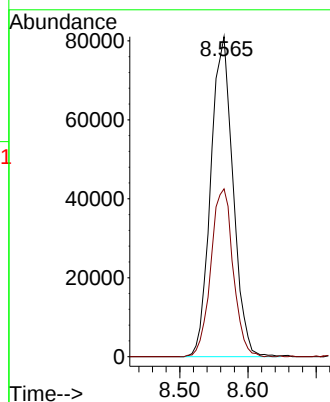
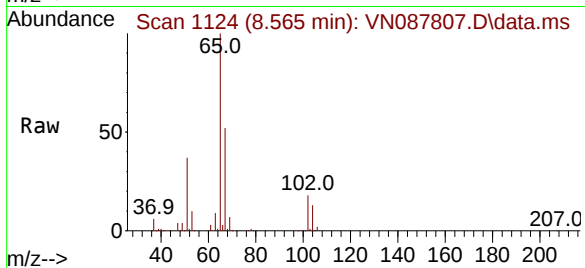
250910074-01-VOADL

Tgt Ion: 65 Resp: 184426

Ion Ratio Lower Upper

65 100

67 52.5 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: VN087807.D

Acq: 11 Sep 2025 18:32

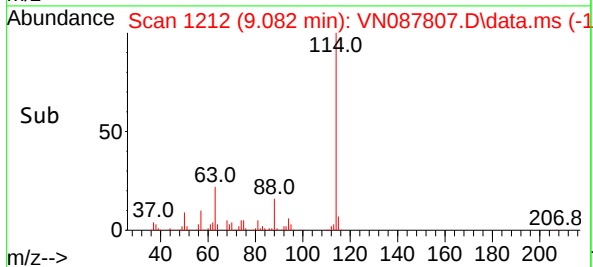
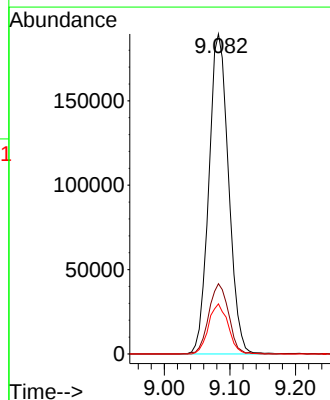
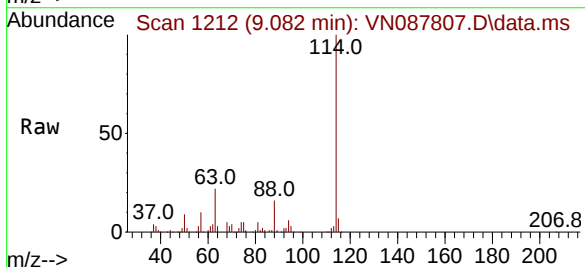
Tgt Ion: 114 Resp: 395199

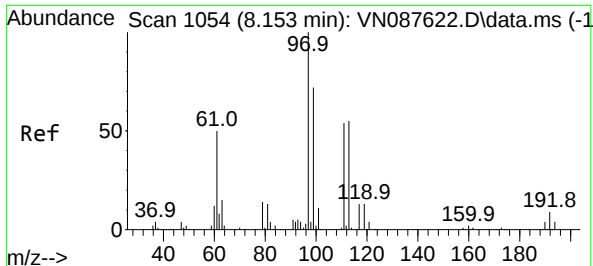
Ion Ratio Lower Upper

114 100

63 21.9 0.0 45.2

88 15.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.099 ug/l

RT: 8.147 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VN087807.D

Acq: 11 Sep 2025 18:32

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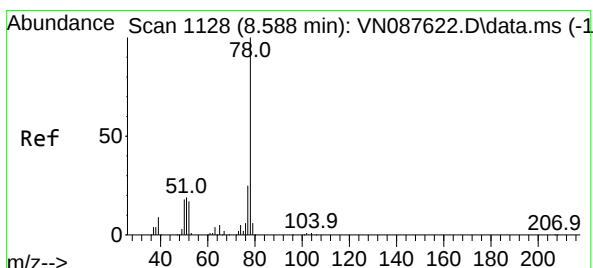
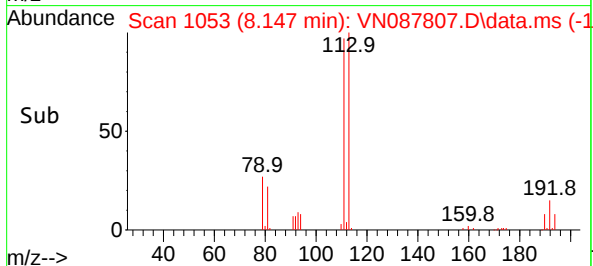
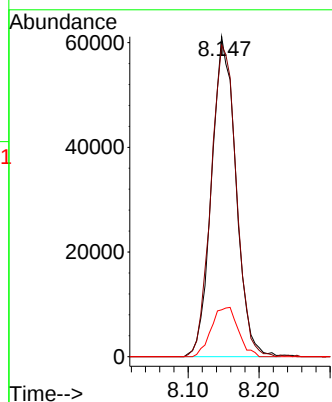
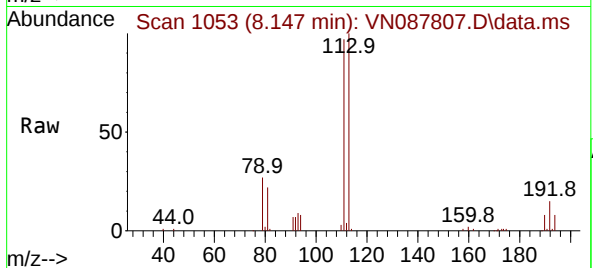
Tgt Ion:113 Resp: 145802

Ion Ratio Lower Upper

113 100

111 100.8 82.8 124.2

192 17.0 12.8 19.2



#40

Benzene

Concen: 0.419 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN087807.D

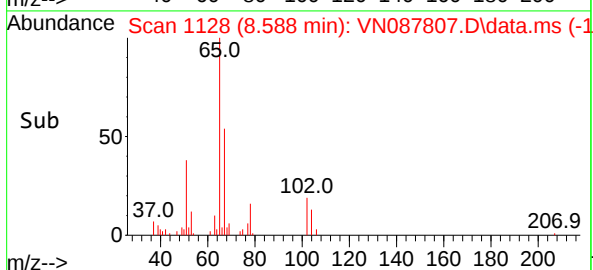
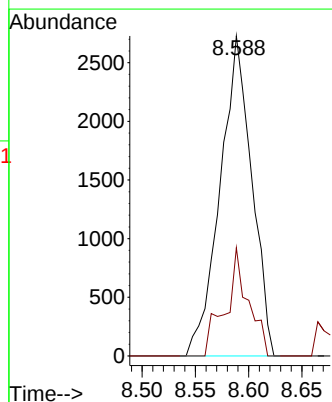
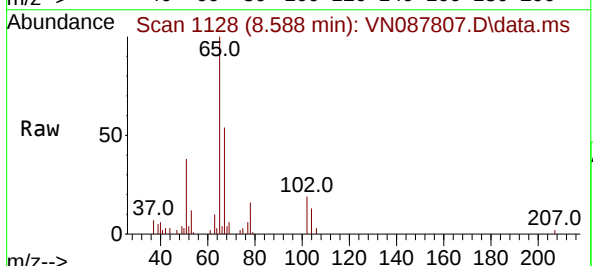
Acq: 11 Sep 2025 18:32

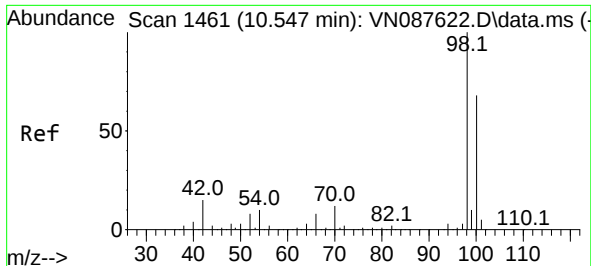
Tgt Ion: 78 Resp: 5631

Ion Ratio Lower Upper

78 100

77 33.8 19.7 29.5#





#50

Toluene-d8

Concen: 47.173 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087807.D

Acq: 11 Sep 2025 18:32

Instrument :

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ClientSampleId :

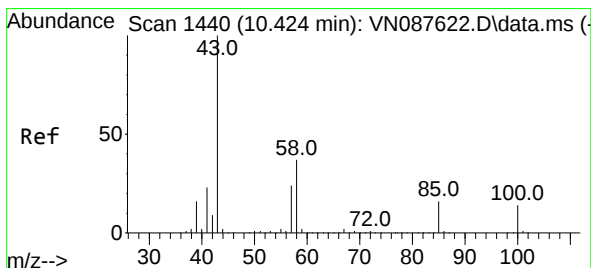
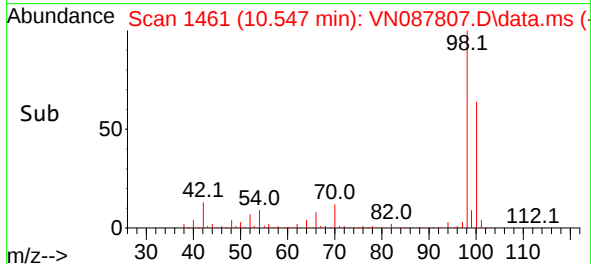
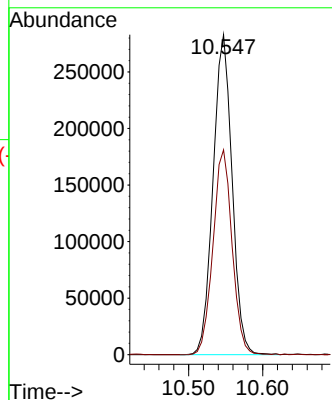
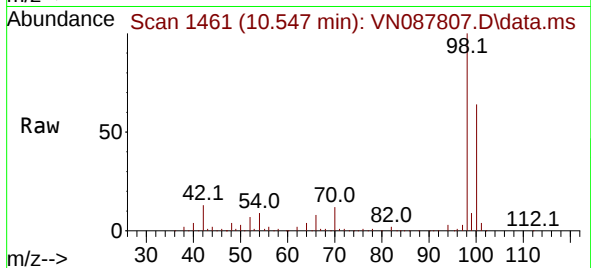
250910074-01-VOADL

Tgt Ion: 98 Resp: 503787

Ion Ratio Lower Upper

98 100

100 64.3 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 1.229 ug/l

RT: 10.435 min Scan# 1442

Delta R.T. 0.012 min

Lab File: VN087807.D

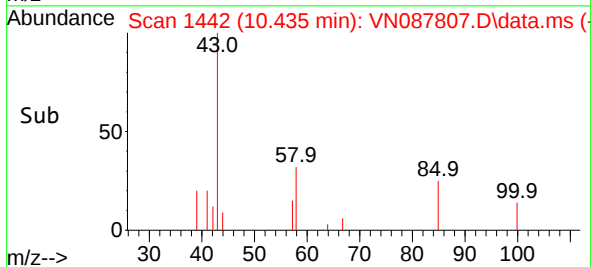
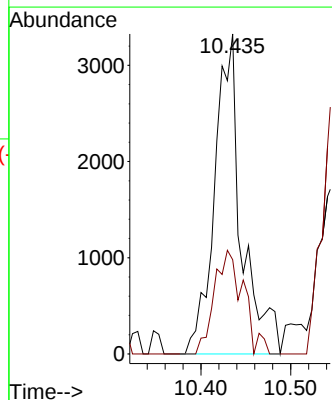
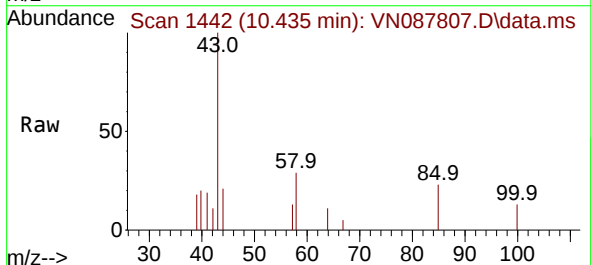
Acq: 11 Sep 2025 18:32

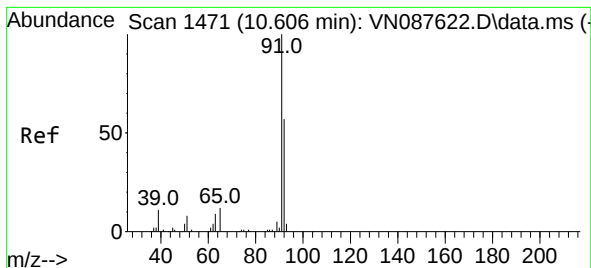
Tgt Ion: 43 Resp: 6926

Ion Ratio Lower Upper

43 100

58 35.0 29.6 44.4





#52

Toluene

Concen: 0.765 ug/l

RT: 10.612 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VN087807.D

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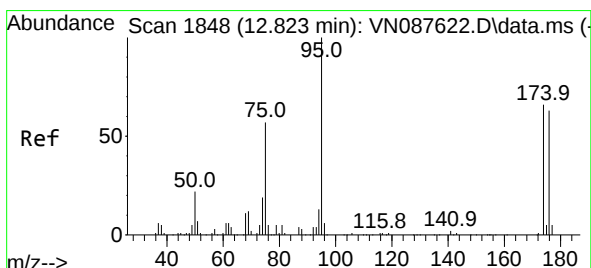
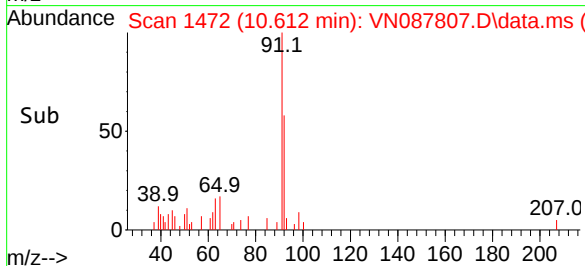
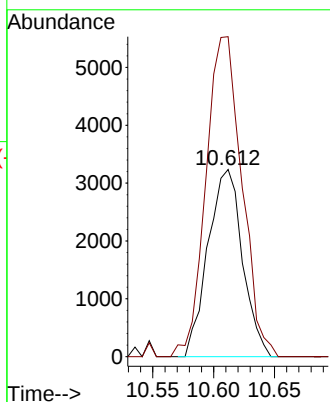
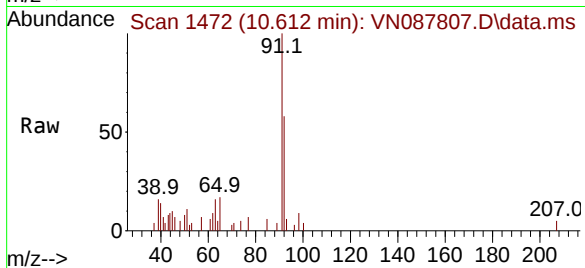
250910074-01-VOADL

Tgt Ion: 92 Resp: 6365

Ion Ratio Lower Upper

92 100

91 178.4 140.4 210.6



#62

4-Bromofluorobenzene

Concen: 45.416 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN087807.D

Acq: 11 Sep 2025 18:32

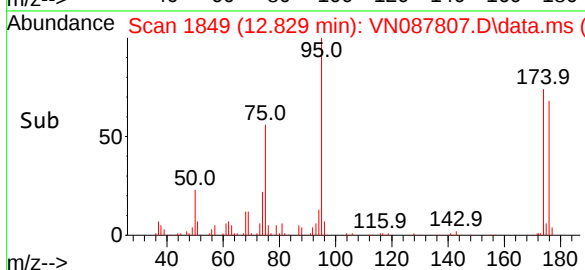
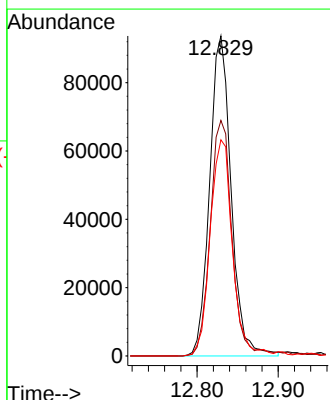
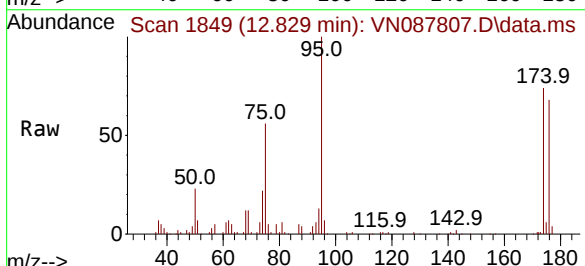
Tgt Ion: 95 Resp: 172489

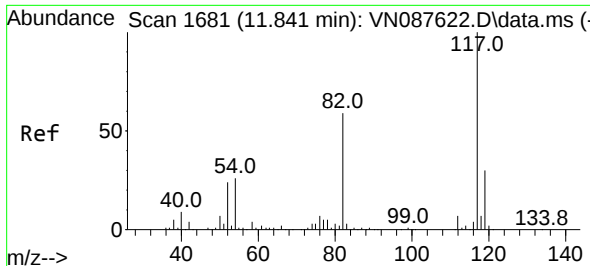
Ion Ratio Lower Upper

95 100

174 75.7 0.0 138.4

176 69.8 0.0 132.6

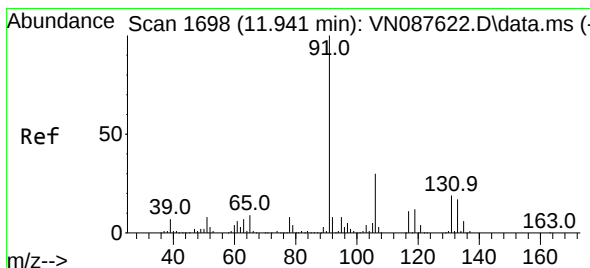
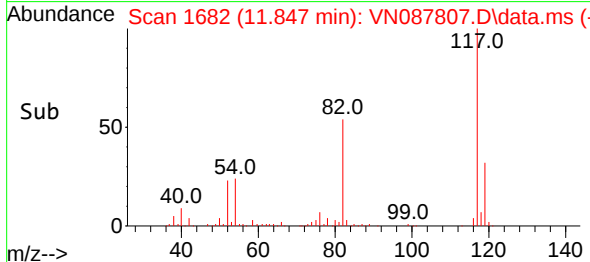
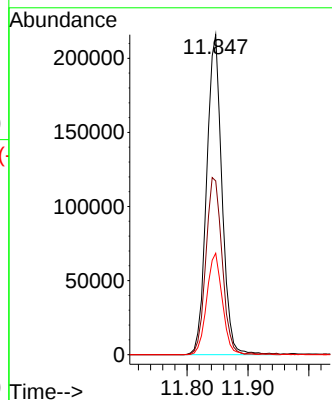
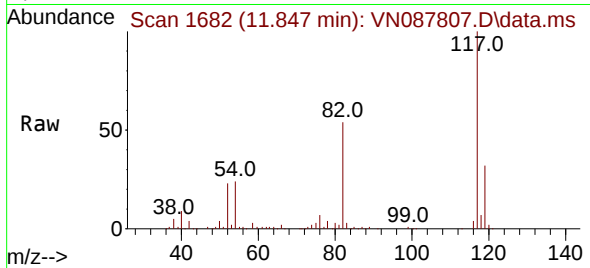




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

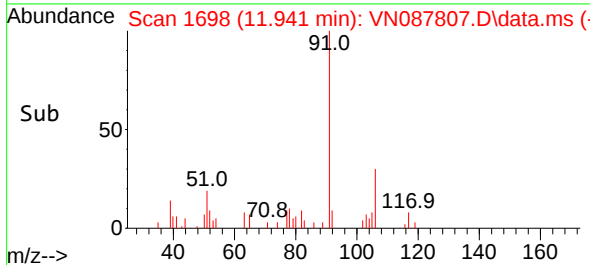
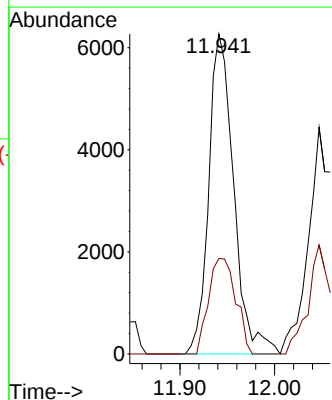
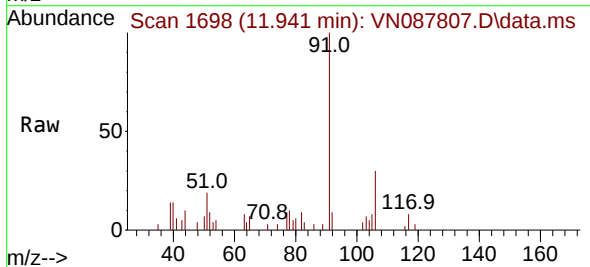
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOADL

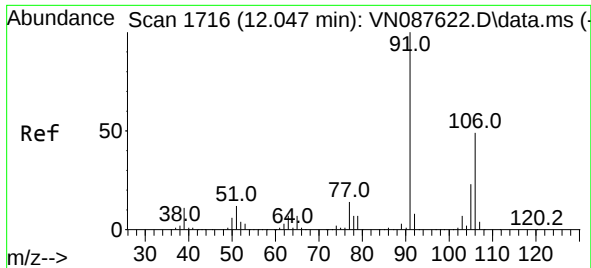
Tgt Ion:117 Resp: 377973
Ion Ratio Lower Upper
117 100
82 54.3 47.4 71.2
119 31.7 24.3 36.5



#67
Ethyl Benzene
Concen: 0.705 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

Tgt Ion: 91 Resp: 11471
Ion Ratio Lower Upper
91 100
106 29.9 24.1 36.1

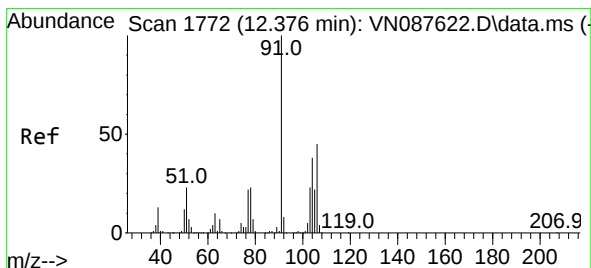
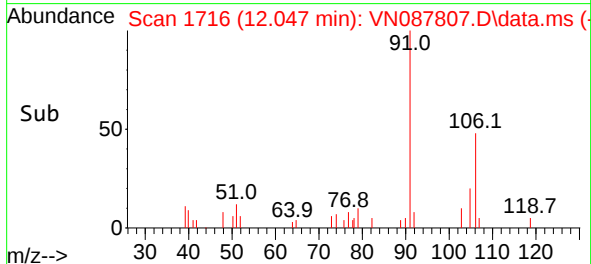
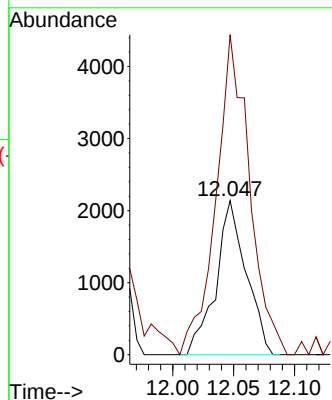
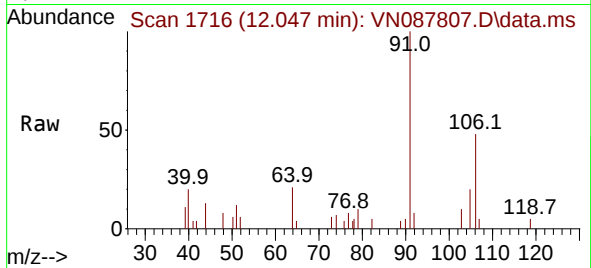




#68
m/p-Xylenes
Concen: 0.622 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

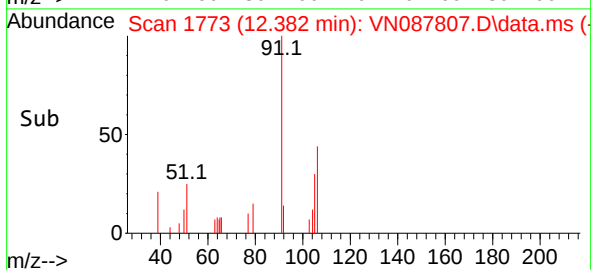
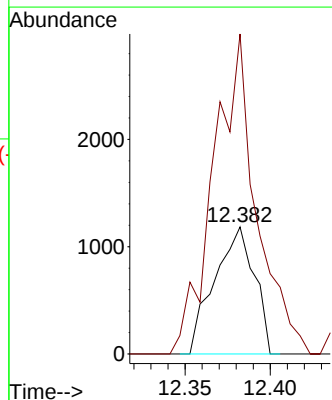
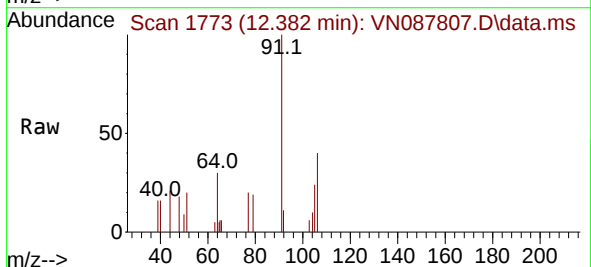
Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOADL

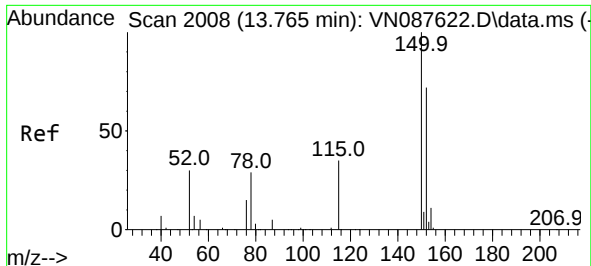
Tgt Ion:106 Resp: 3715
Ion Ratio Lower Upper
106 100
91 228.5 169.3 253.9



#69
o-Xylene
Concen: 0.329 ug/l
RT: 12.382 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

Tgt Ion:106 Resp: 1927
Ion Ratio Lower Upper
106 100
91 271.6 111.4 334.2

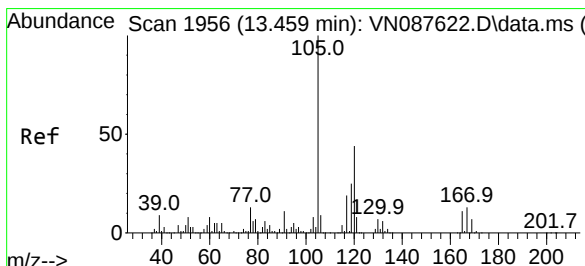
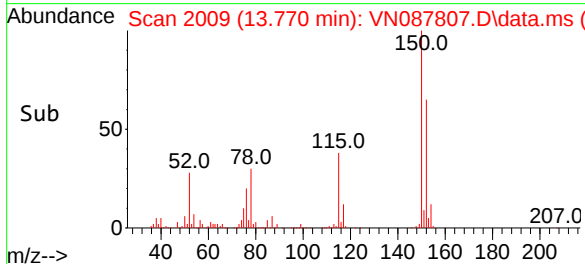
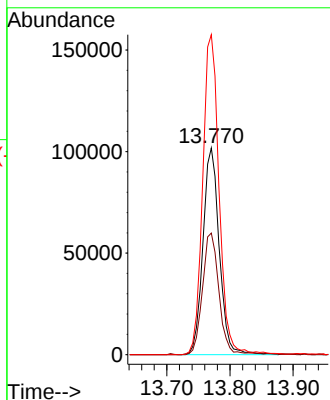
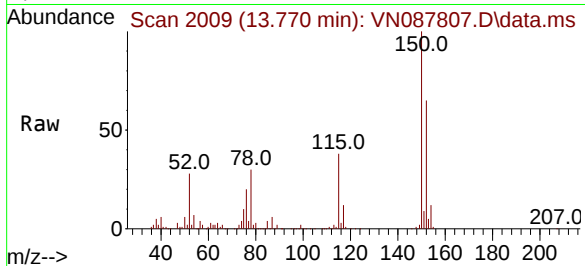




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2008
 Delta R.T. 0.006 min
 Lab File: VN087807.D
 Acq: 11 Sep 2025 18:32

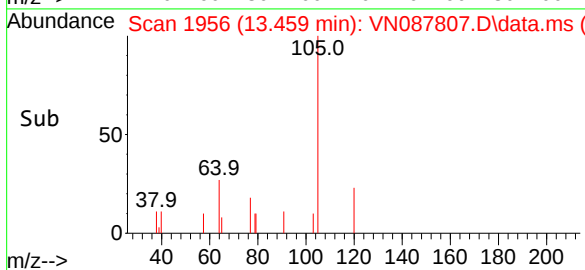
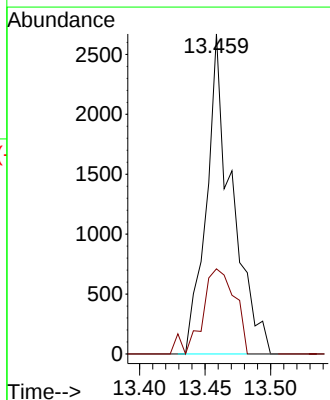
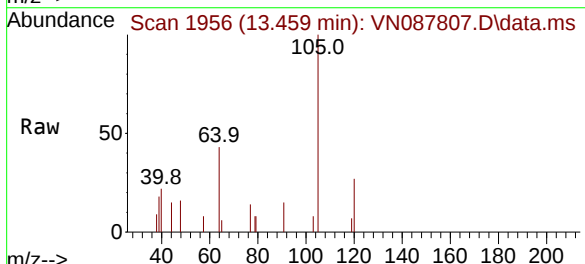
Instrument :
 MSVOA_N
 ClientSampleId :
 250910074-01-VOADL

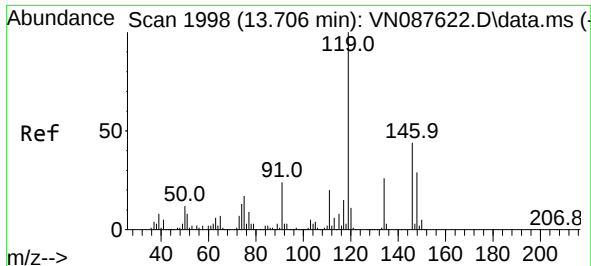
Tgt Ion:152 Resp: 182604
 Ion Ratio Lower Upper
 152 100
 115 59.7 32.3 96.8
 150 154.2 0.0 351.0



#84
 1,2,4-Trimethylbenzene
 Concen: 0.288 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VN087807.D
 Acq: 11 Sep 2025 18:32

Tgt Ion:105 Resp: 3609
 Ion Ratio Lower Upper
 105 100
 120 34.1 22.0 66.0

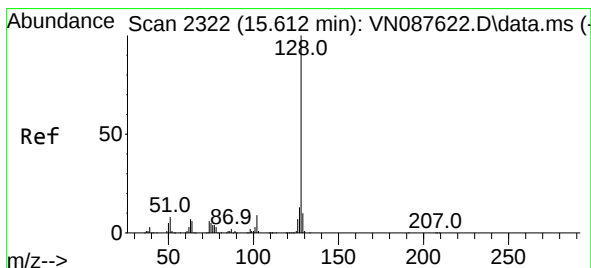
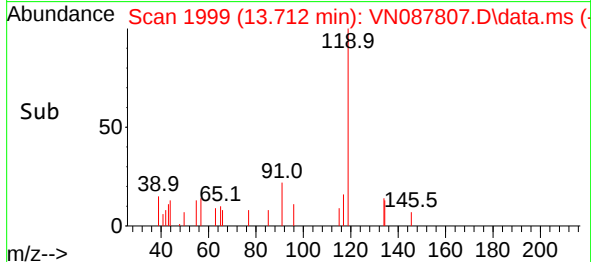
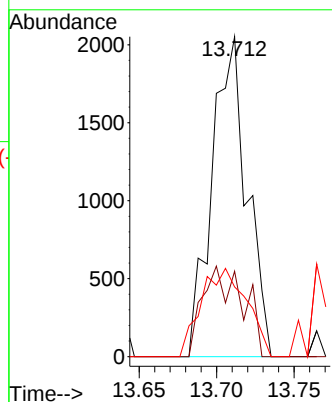
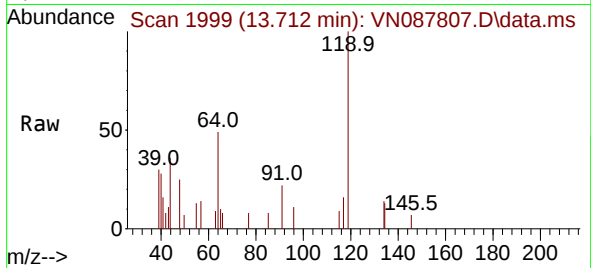




#86
p-Isopropyltoluene
Concen: 0.252 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

Instrument :
MSVOA_N
ClientSampleId :
250910074-01-VOADL

Tgt Ion:	119	Resp:	3216
Ion Ratio	Lower	Upper	
119	100		
134	32.3	12.7	38.0
91	36.1	12.5	37.5



#95
Naphthalene
Concen: 1.755 ug/l
RT: 15.606 min Scan# 2321
Delta R.T. -0.006 min
Lab File: VN087807.D
Acq: 11 Sep 2025 18:32

Tgt Ion:	128	Resp:	24263
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.6	15.8
129	9.9	8.6	12.8

