

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088494.D
 Acq On : 10 Dec 2025 13:04
 Operator : JC\MD
 Sample : Q3813-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB01-120825

Quant Time: Dec 11 02:06:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	225847	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	531810	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	534272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	252826	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	259278	60.942	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	121.880%
35) Dibromofluoromethane	8.147	113	180608	49.006	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.020%
50) Toluene-d8	10.541	98	618777	45.125	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.240%
62) 4-Bromofluorobenzene	12.829	95	228926	48.655	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.320%

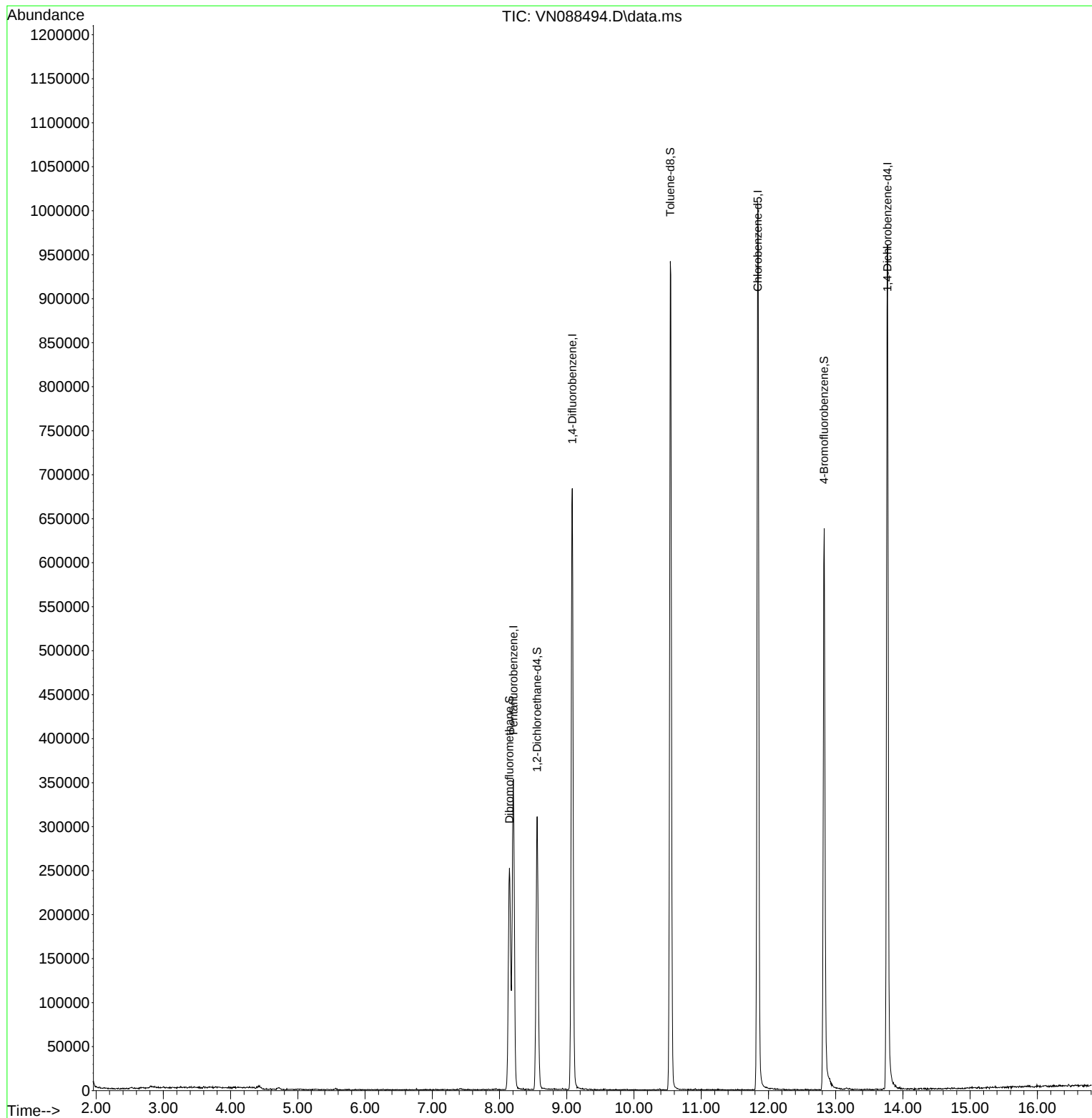
Target Compounds	Qvalue

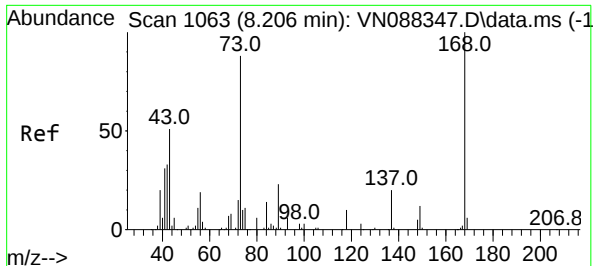
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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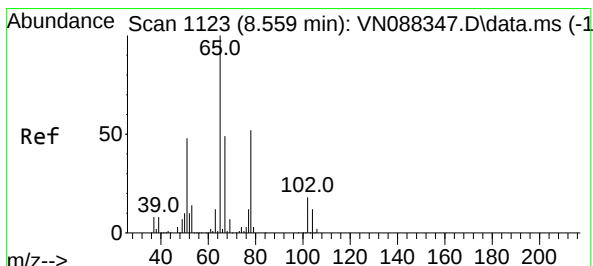
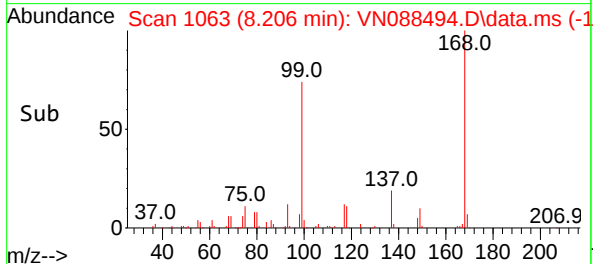
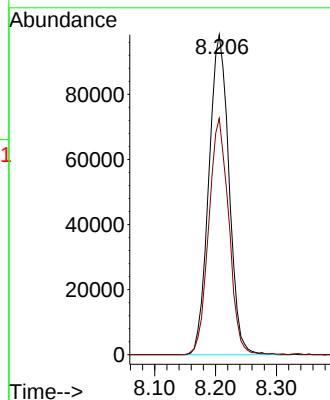
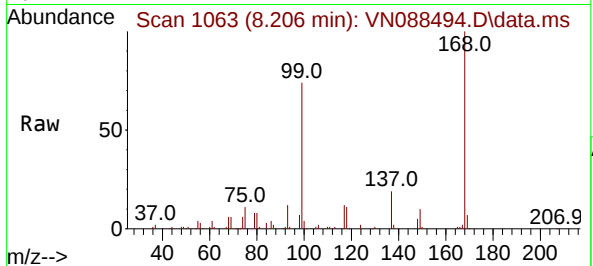




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

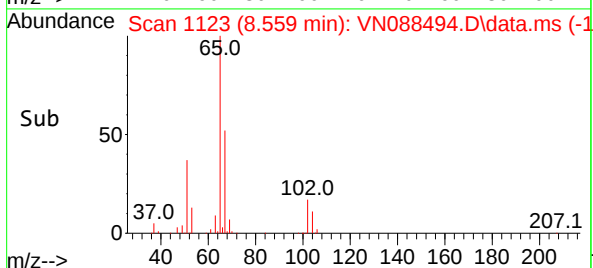
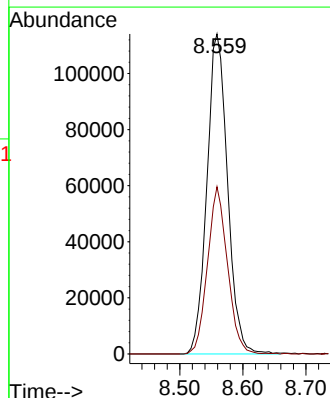
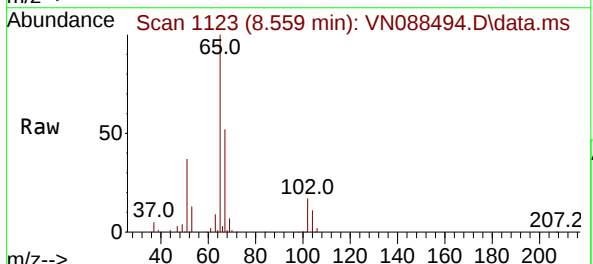
Instrument :
MSVOA_N
ClientSampleId :
TB01-120825

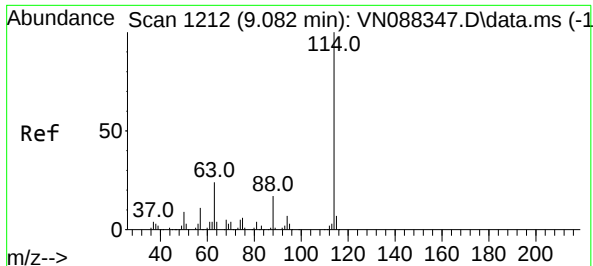
Tgt Ion:168 Resp: 225847
Ion Ratio Lower Upper
168 100
99 73.9 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 60.942 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

Tgt Ion: 65 Resp: 259278
Ion Ratio Lower Upper
65 100
67 50.5 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088494.D

Acq: 10 Dec 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

TB01-120825

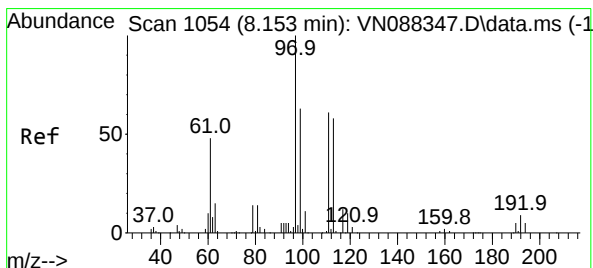
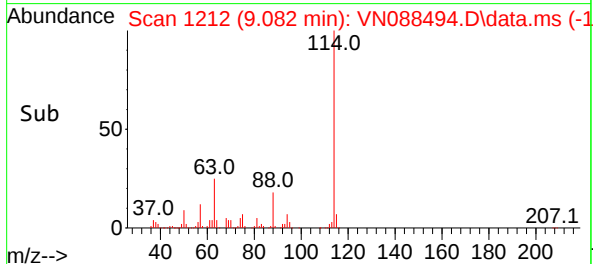
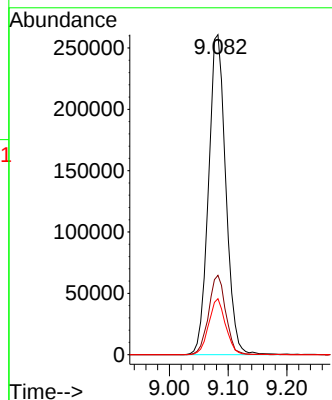
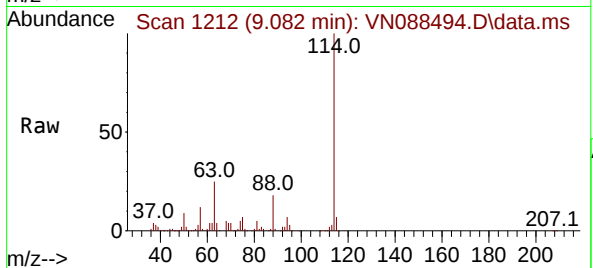
Tgt Ion:114 Resp: 531810

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.0

88 17.5 0.0 34.0



#35

Dibromofluoromethane

Concen: 49.006 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088494.D

Acq: 10 Dec 2025 13:04

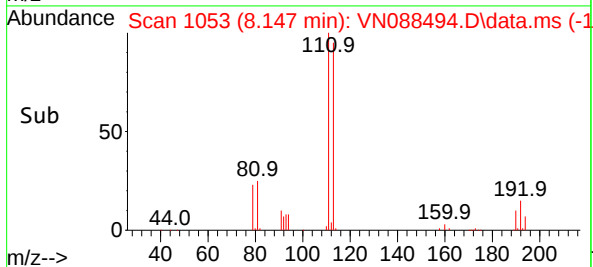
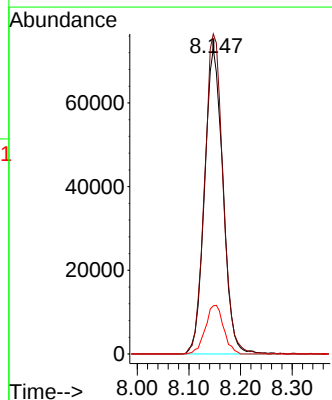
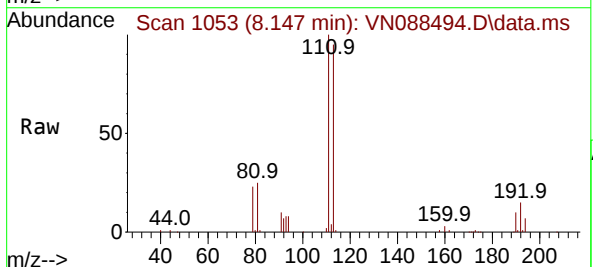
Tgt Ion:113 Resp: 180608

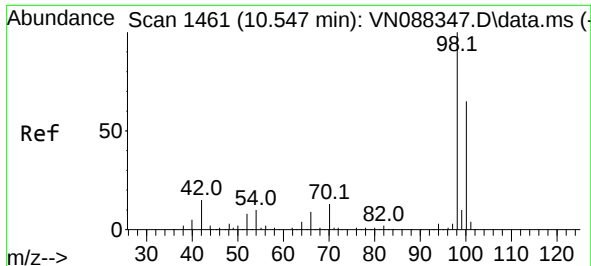
Ion Ratio Lower Upper

113 100

111 104.5 82.5 123.7

192 15.8 12.8 19.2

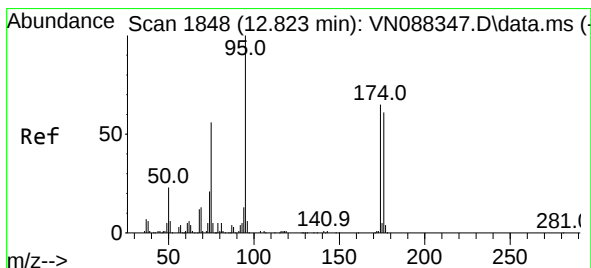
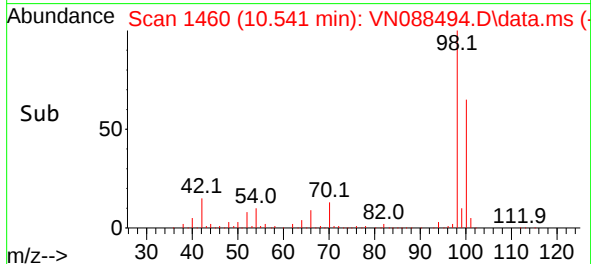
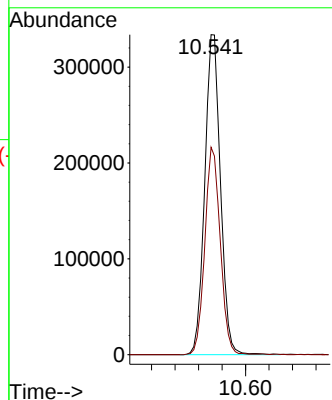
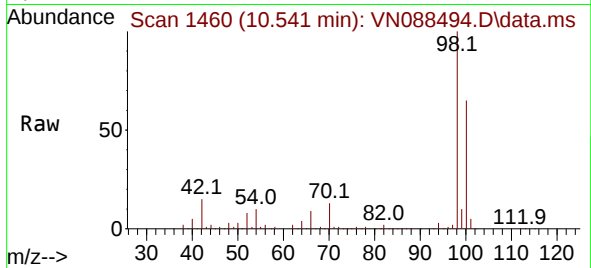




#50
Toluene-d8
Concen: 45.125 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

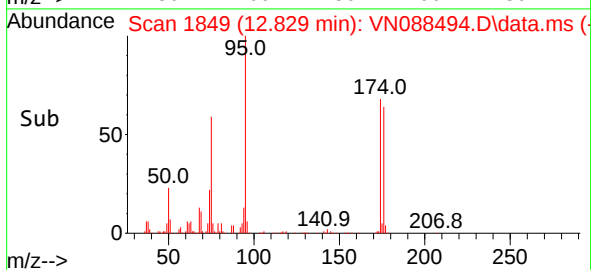
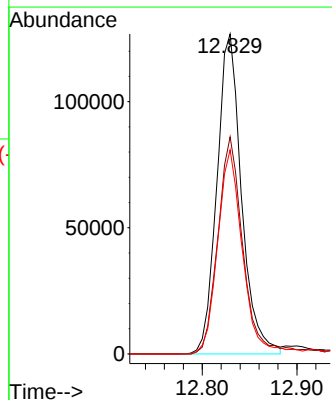
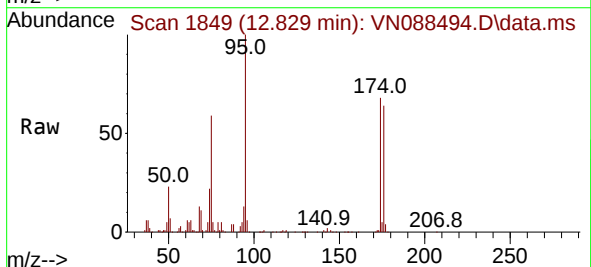
Instrument :
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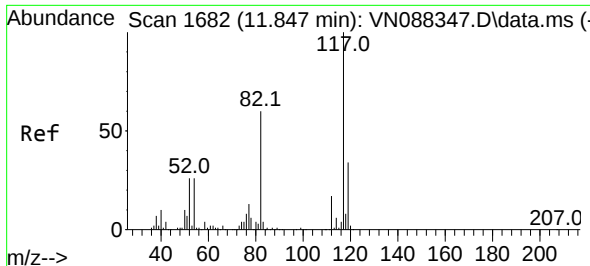
Tgt Ion: 98 Resp: 618777
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 48.655 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

Tgt Ion: 95 Resp: 228926
Ion Ratio Lower Upper
95 100
174 70.3 0.0 139.0
176 64.6 0.0 132.4

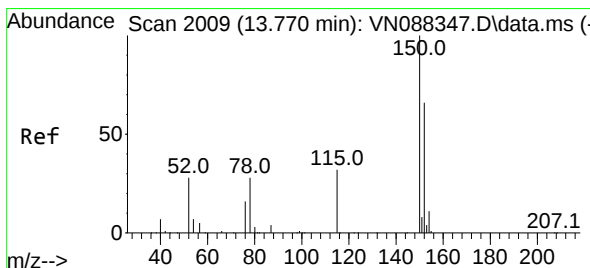
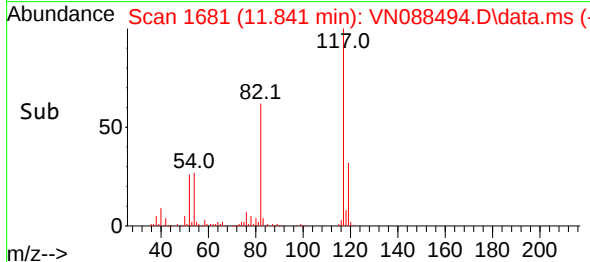
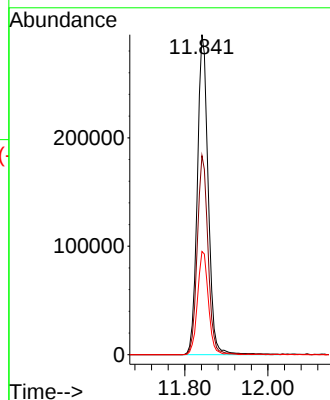
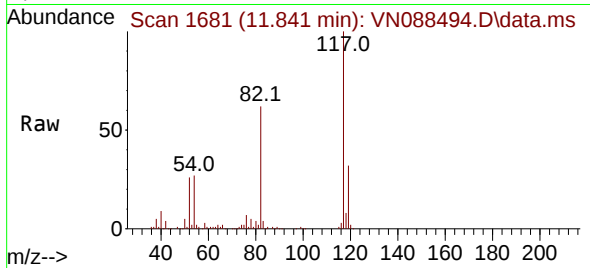




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

Instrument :
MSVOA_N
ClientSampleId :
TB01-120825

Tgt Ion:117 Resp: 534272
Ion Ratio Lower Upper
117 100
82 62.2 47.8 71.8
119 32.3 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

Tgt Ion:152 Resp: 252826
Ion Ratio Lower Upper
152 100
115 64.4 33.0 98.9
150 156.0 0.0 349.0

