

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088391.D
 Acq On : 01 Dec 2025 18:00
 Operator : JC\MD
 Sample : Q3743-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Quant Time: Dec 02 00:18:27 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	158953	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	363652	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	360625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	164355	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	179661	60.000	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	120.000%
35) Dibromofluoromethane	8.147	113	132859	52.720	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.440%
50) Toluene-d8	10.547	98	475600	50.721	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.440%
62) 4-Bromofluorobenzene	12.829	95	177205	55.078	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	110.160%

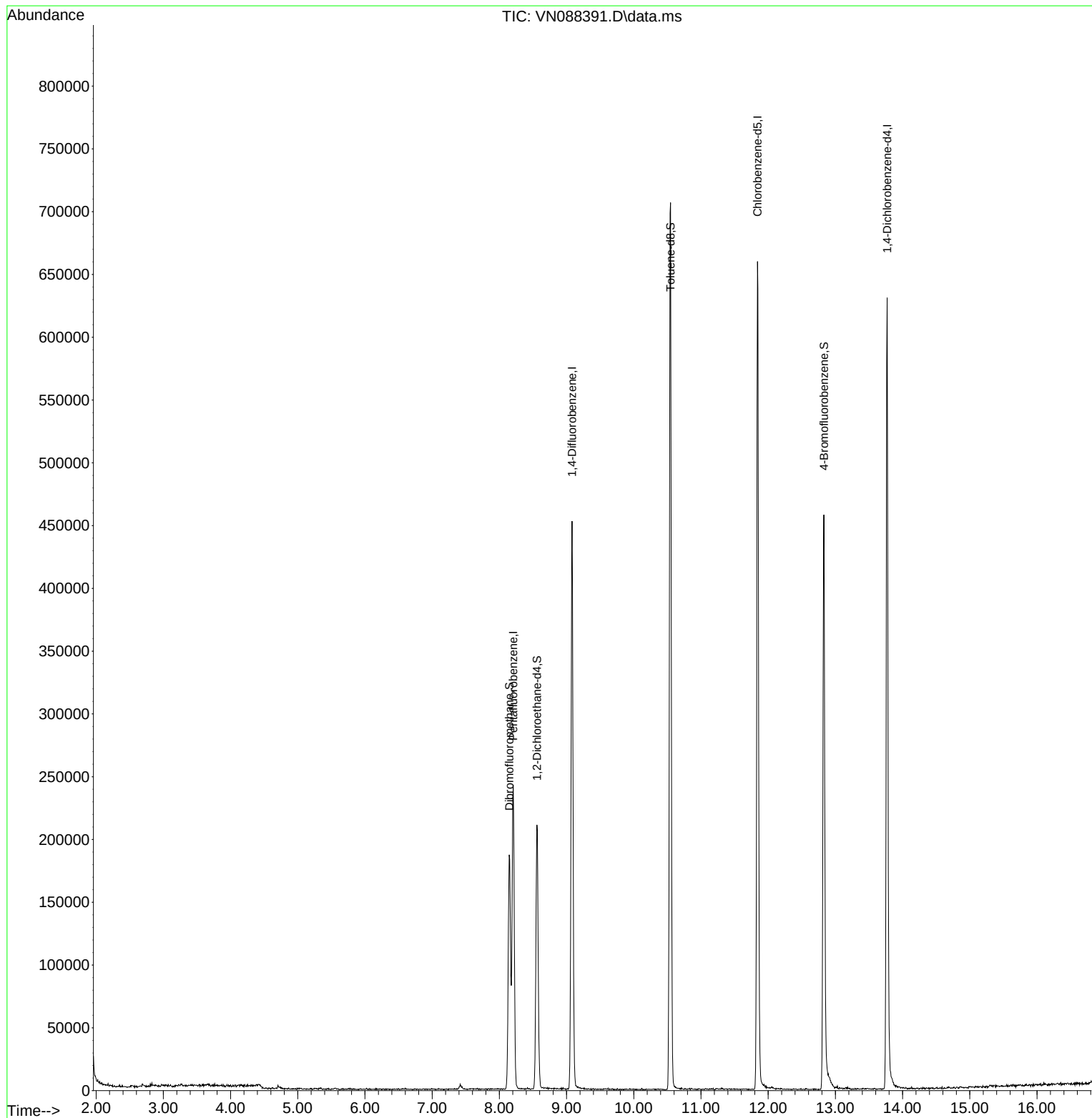
Target Compounds	Qvalue

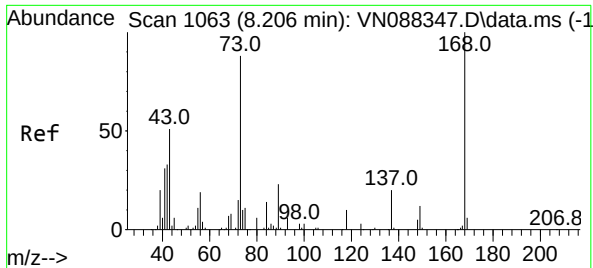
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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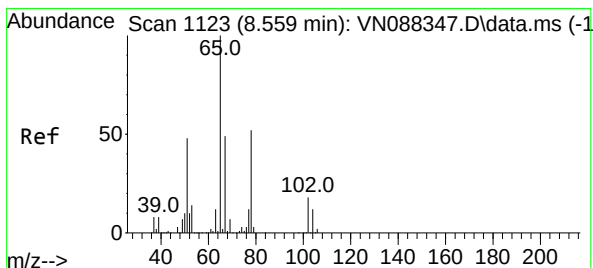
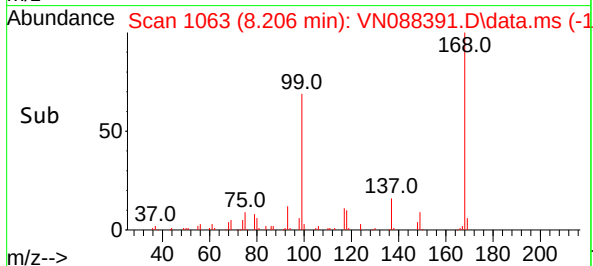
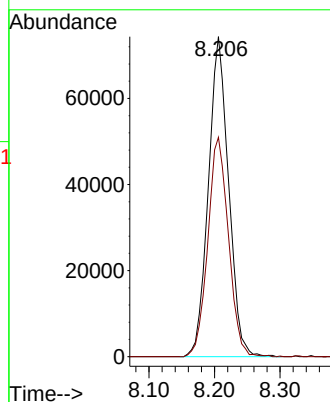
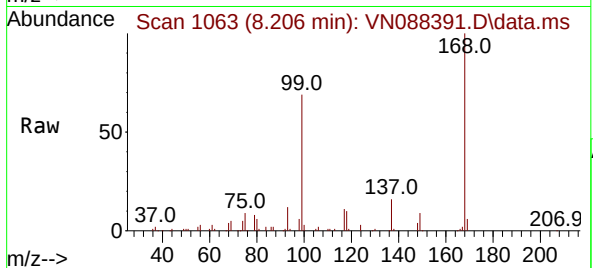




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088391.D
Acq: 01 Dec 2025 18:00

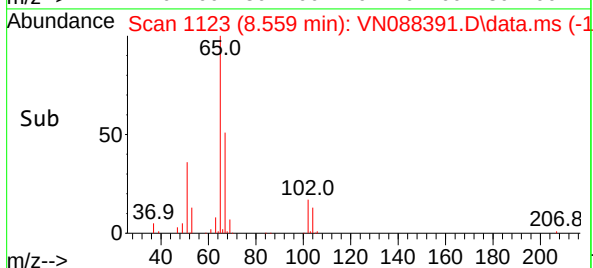
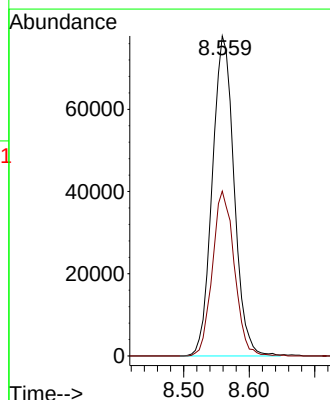
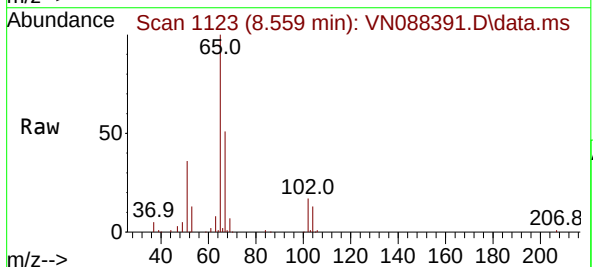
Instrument :
MSVOA_N
ClientSampleId :
TB

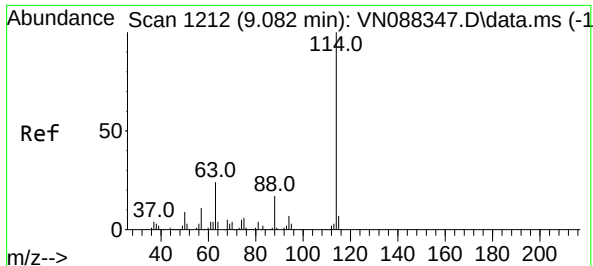
Tgt Ion:168 Resp: 158953
Ion Ratio Lower Upper
168 100
99 68.5 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 60.000 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088391.D
Acq: 01 Dec 2025 18:00

Tgt Ion: 65 Resp: 179661
Ion Ratio Lower Upper
65 100
67 51.8 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: VN088391.D

Acq: 01 Dec 2025 18:00

Instrument :

MSVOA_N

ClientSampleId :

TB

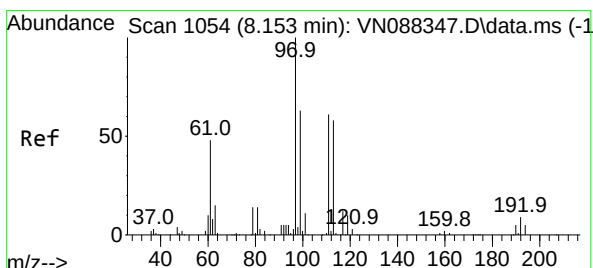
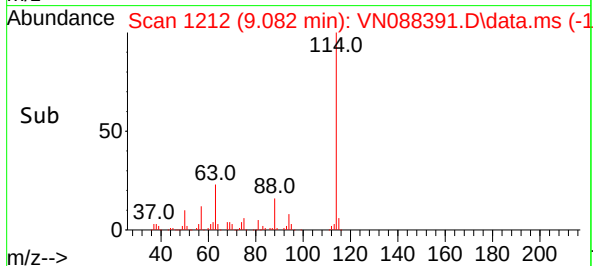
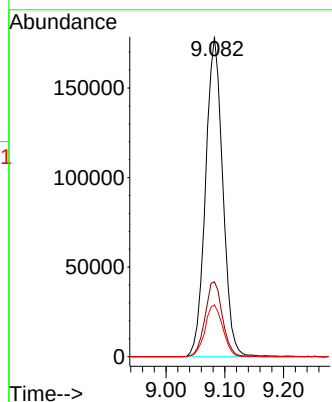
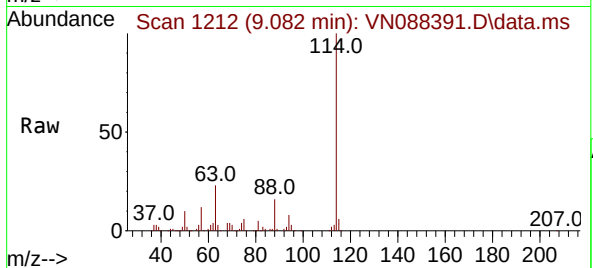
Tgt Ion:114 Resp: 363652

Ion Ratio Lower Upper

114 100

63 23.4 0.0 49.0

88 16.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 52.720 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088391.D

Acq: 01 Dec 2025 18:00

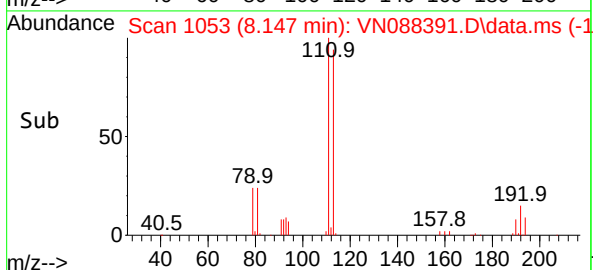
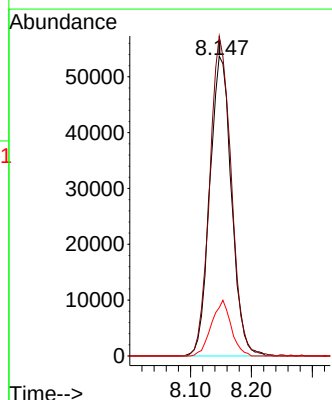
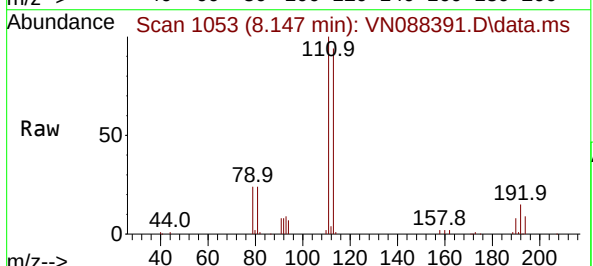
Tgt Ion:113 Resp: 132859

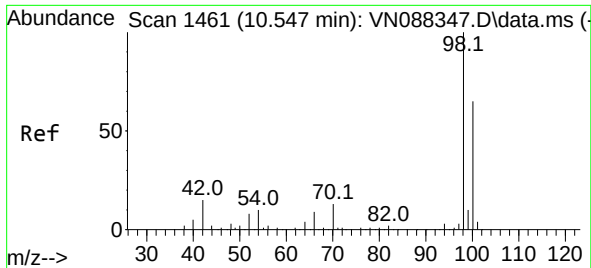
Ion Ratio Lower Upper

113 100

111 105.6 82.5 123.7

192 16.8 12.8 19.2

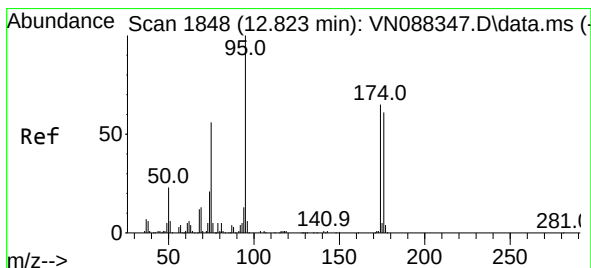
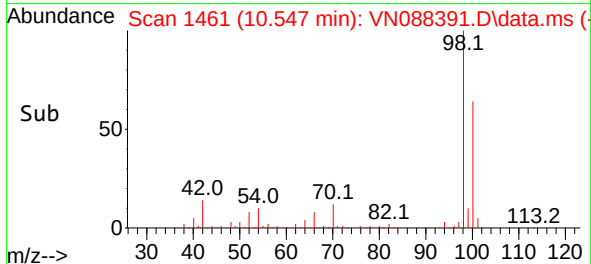
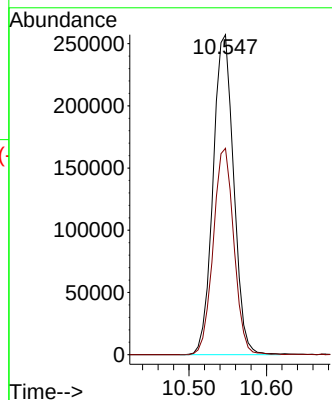
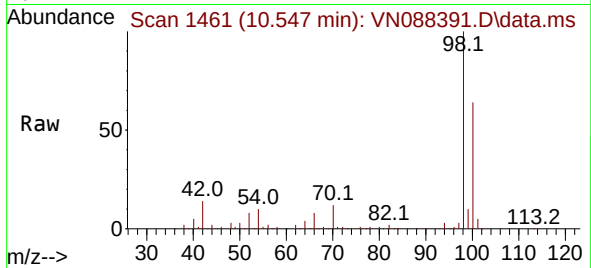




#50
Toluene-d8
Concen: 50.721 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088391.D
Acq: 01 Dec 2025 18:00

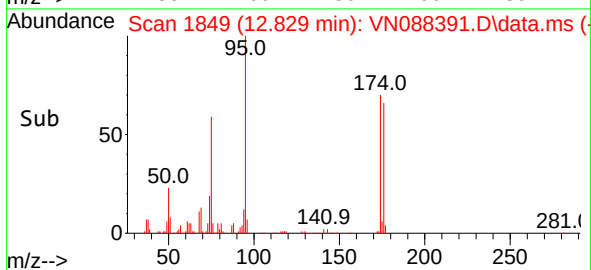
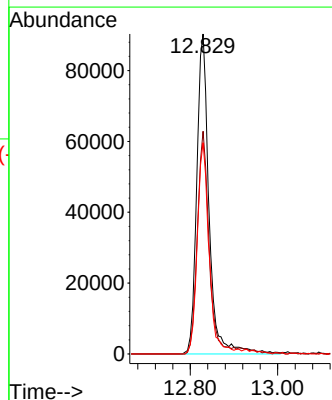
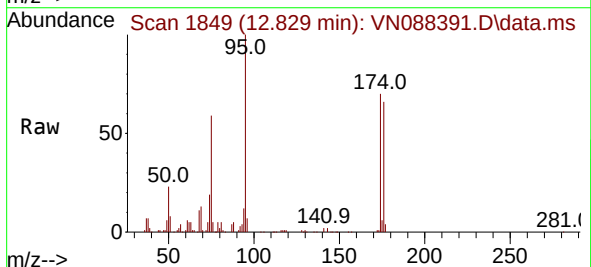
Instrument :
MSVOA_N
ClientSampleId :
TB

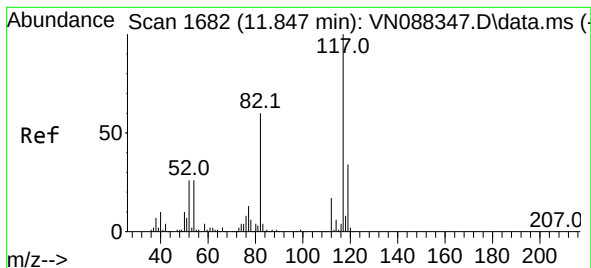
Tgt Ion: 98 Resp: 475600
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 55.078 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088391.D
Acq: 01 Dec 2025 18:00

Tgt Ion: 95 Resp: 177205
Ion Ratio Lower Upper
95 100
174 65.9 0.0 139.0
176 62.8 0.0 132.4

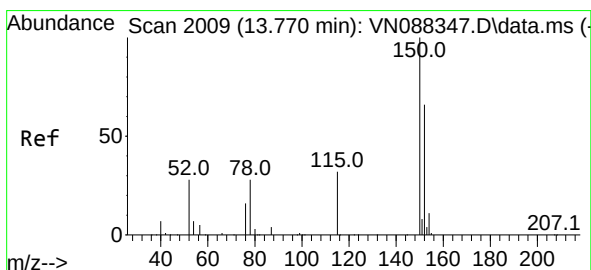
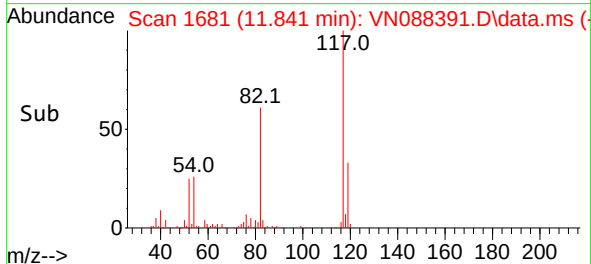
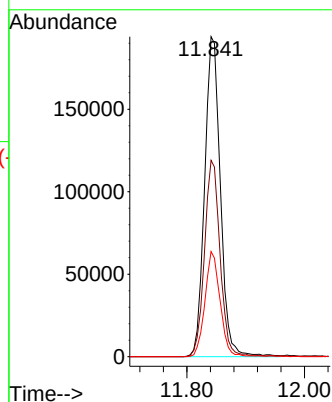
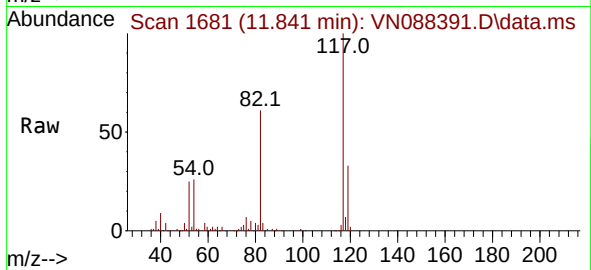




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088391.D
Acq: 01 Dec 2025 18:00

Instrument :
MSVOA_N
ClientSampleId :
TB

Tgt Ion:117 Resp: 360625
Ion Ratio Lower Upper
117 100
82 61.4 47.8 71.8
119 32.8 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: VN088391.D
Acq: 01 Dec 2025 18:00

Tgt Ion:152 Resp: 164355
Ion Ratio Lower Upper
152 100
115 65.9 33.0 98.9
150 162.1 0.0 349.0

