

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080525\
 Data File : VW032014.D
 Acq On : 05 Aug 2025 15:43
 Operator : SY/MD
 Sample : Q2774-09
 Misc : 5.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 248

Quant Time: Aug 06 03:55:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	180962	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	389531	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	376792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	190894	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	146227	53.416	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	106.840%
35) Dibromofluoromethane	7.898	113	122340	46.220	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	92.440%
50) Toluene-d8	10.331	98	459325	45.851	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.700%
62) 4-Bromofluorobenzene	12.617	95	187444	48.729	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	97.460%

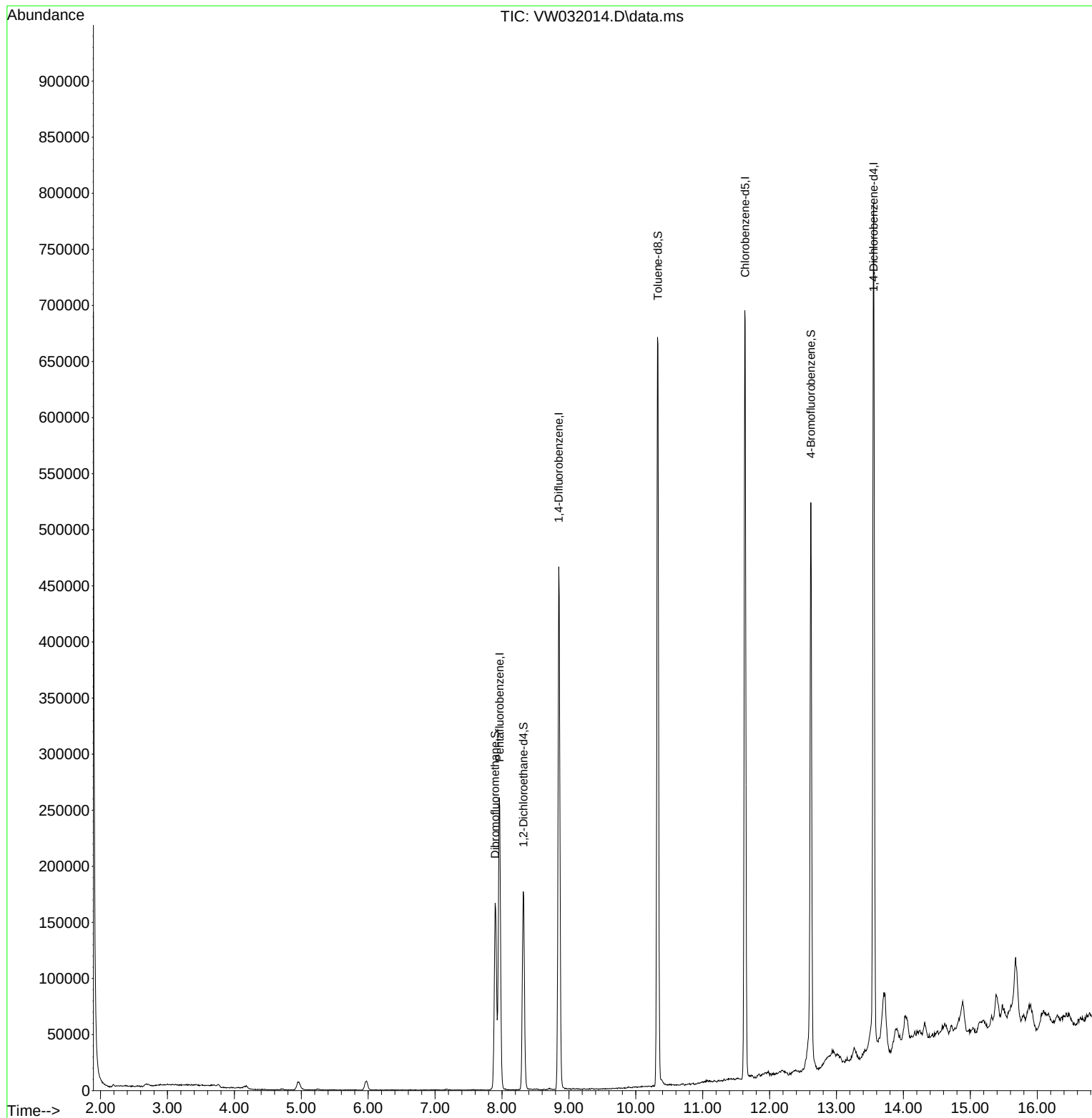
Target Compounds	Qvalue

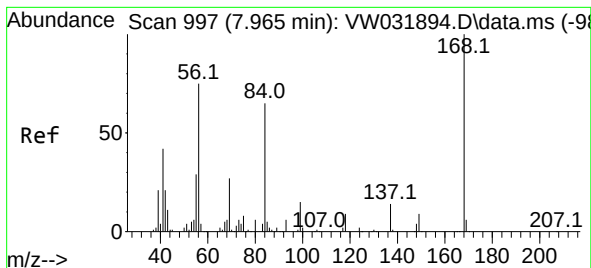
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.965 min Scan# 99

Delta R.T. 0.000 min

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Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_W

ClientSampleId :

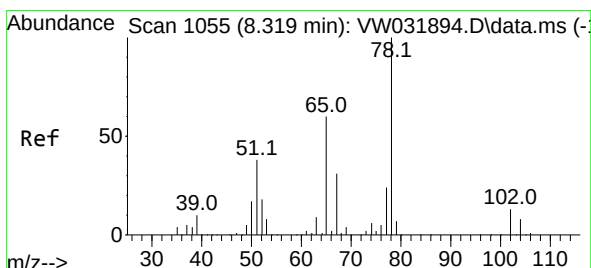
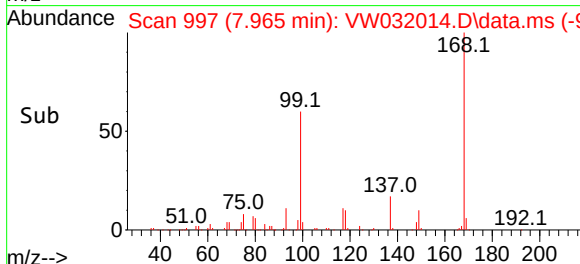
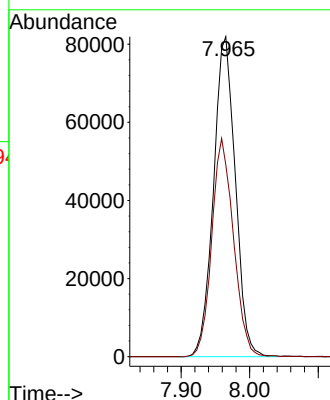
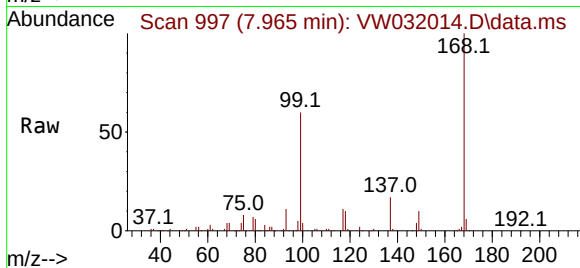
248

Tgt Ion:168 Resp: 180962

Ion Ratio Lower Upper

168 100

99 60.0 48.2 72.2



#33

1,2-Dichloroethane-d4

Concen: 53.416 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032014.D

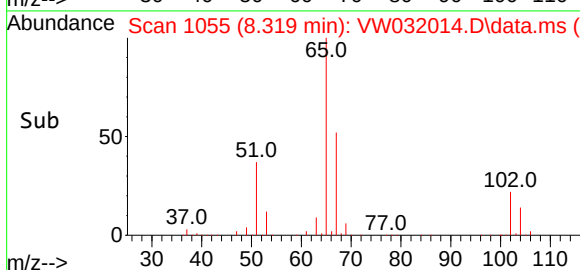
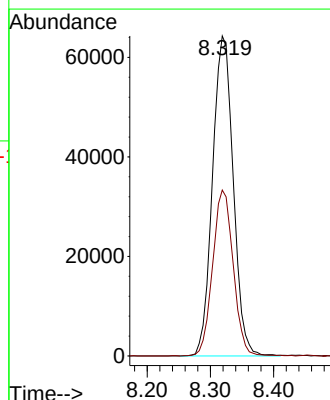
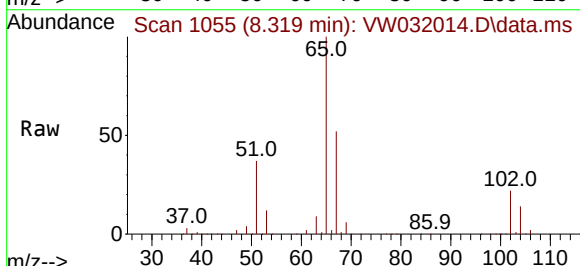
Acq: 05 Aug 2025 15:43

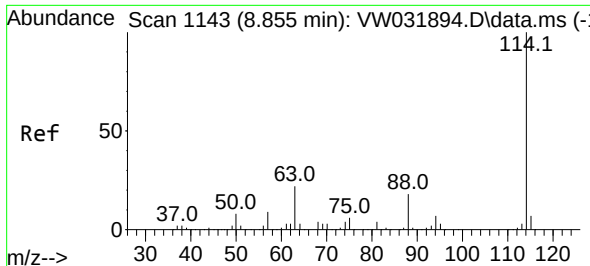
Tgt Ion: 65 Resp: 146227

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VW032014.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_W

ClientSampleId :

248

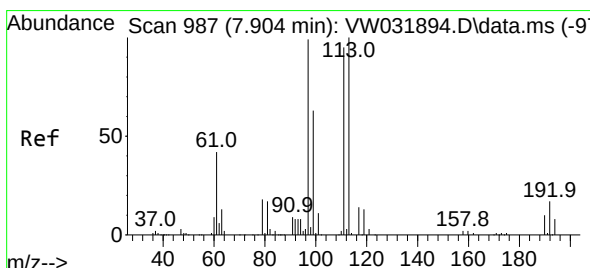
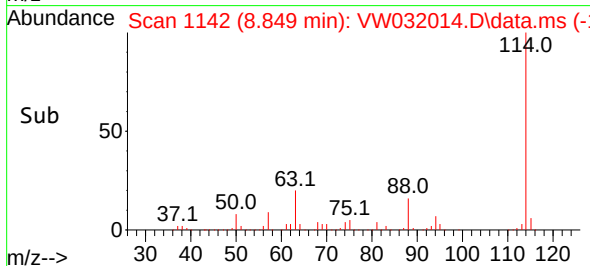
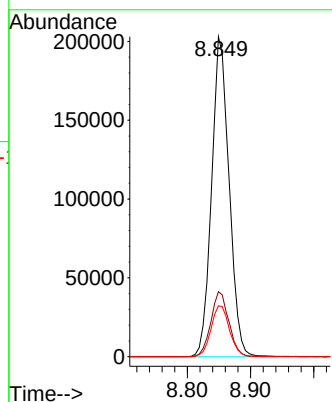
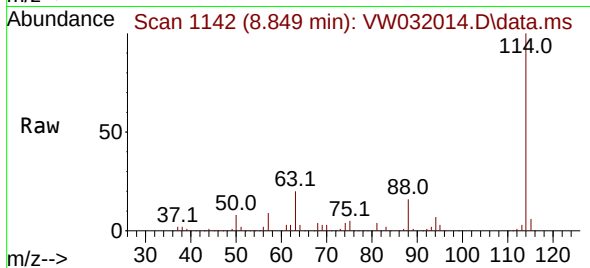
Tgt Ion:114 Resp: 389531

Ion Ratio Lower Upper

114 100

63 20.3 0.0 44.2

88 15.9 0.0 35.6



#35

Dibromofluoromethane

Concen: 46.220 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032014.D

Acq: 05 Aug 2025 15:43

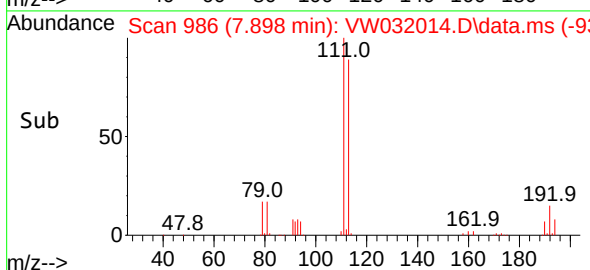
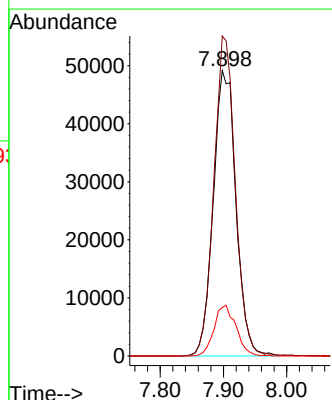
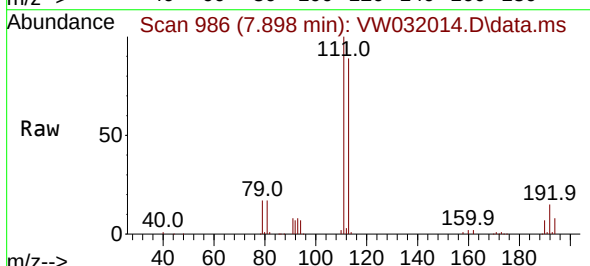
Tgt Ion:113 Resp: 122340

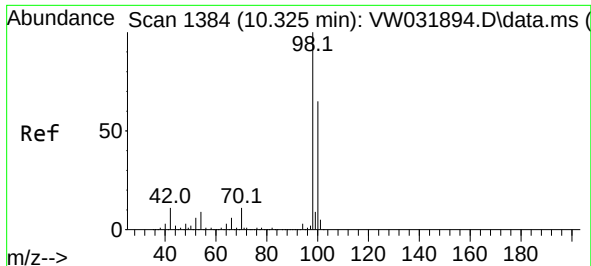
Ion Ratio Lower Upper

113 100

111 105.8 79.9 119.9

192 17.2 12.6 19.0

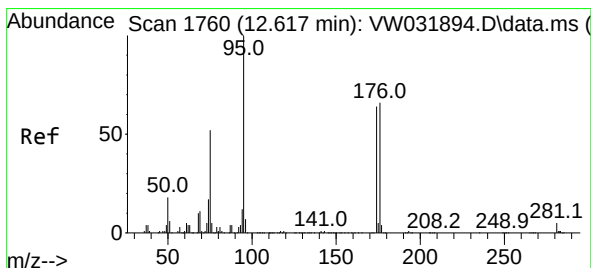
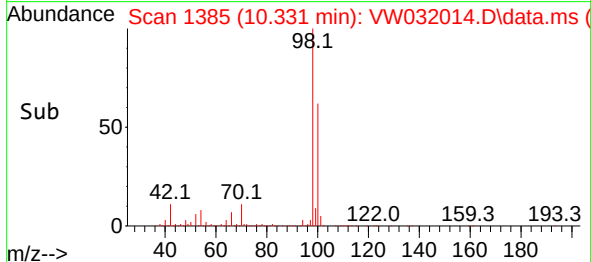
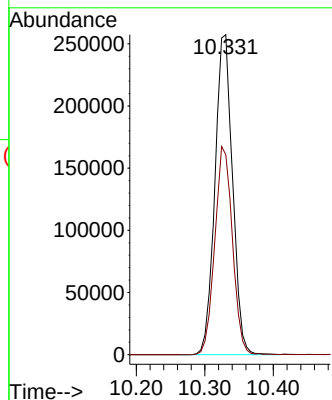
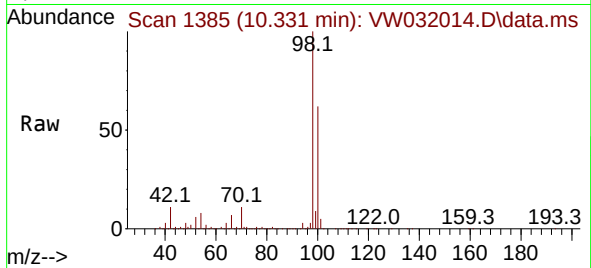




#50
Toluene-d8
Concen: 45.851 ug/l
RT: 10.331 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032014.D
Acq: 05 Aug 2025 15:43

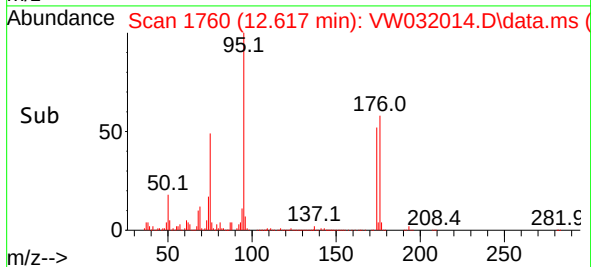
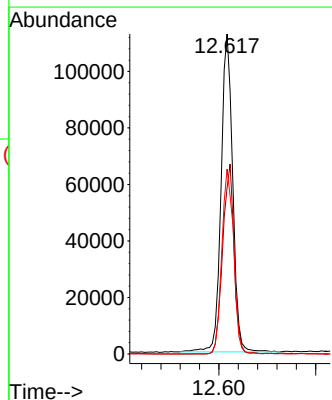
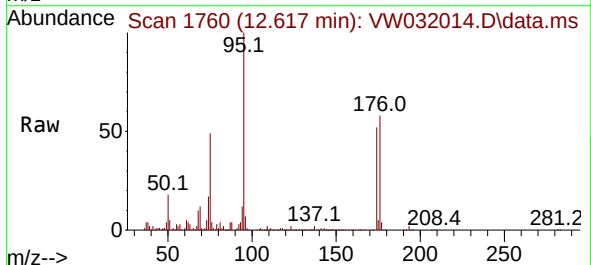
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248

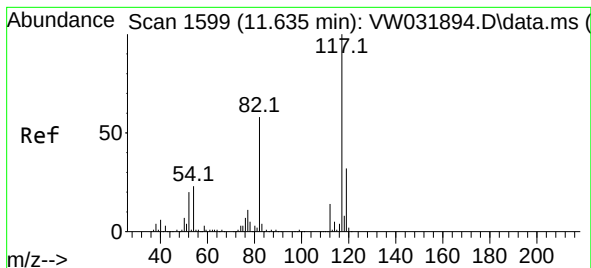
Tgt Ion: 98 Resp: 459325
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 48.729 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032014.D
Acq: 05 Aug 2025 15:43

Tgt Ion: 95 Resp: 187444
Ion Ratio Lower Upper
95 100
174 58.7 0.0 129.8
176 58.7 0.0 130.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW032014.D

Acq: 05 Aug 2025 15:43

Instrument :

MSVOA_W

ClientSampleId :

248

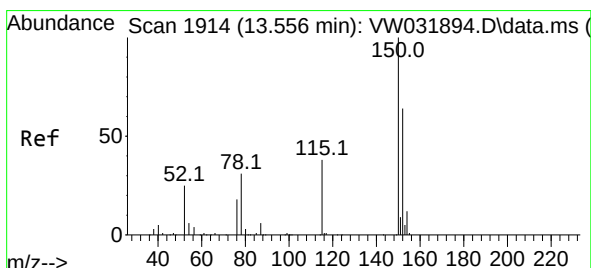
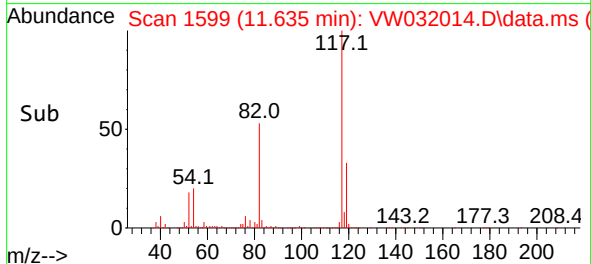
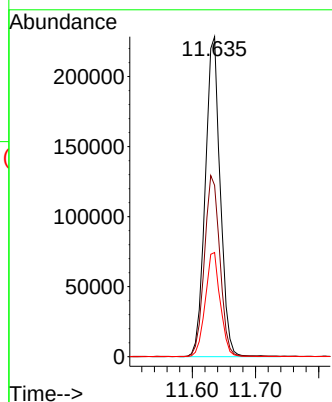
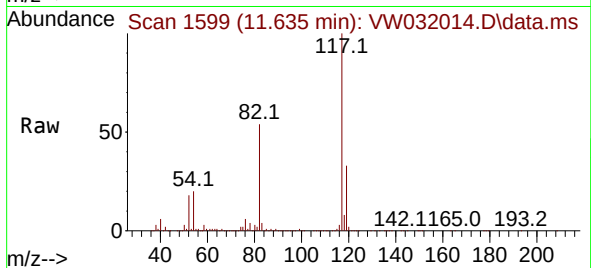
Tgt Ion:117 Resp: 376792

Ion Ratio Lower Upper

117 100

82 53.4 46.5 69.7

119 32.5 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032014.D

Acq: 05 Aug 2025 15:43

Tgt Ion:152 Resp: 190894

Ion Ratio Lower Upper

152 100

115 64.6 33.4 100.1

150 162.0 0.0 352.2

