

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW072425\
 Data File : VW031925.D
 Acq On : 24 Jul 2025 14:35
 Operator : SY/MD
 Sample : Q2691-07
 Misc : 4.20g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 299

Quant Time: Jul 25 03:44:36 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)

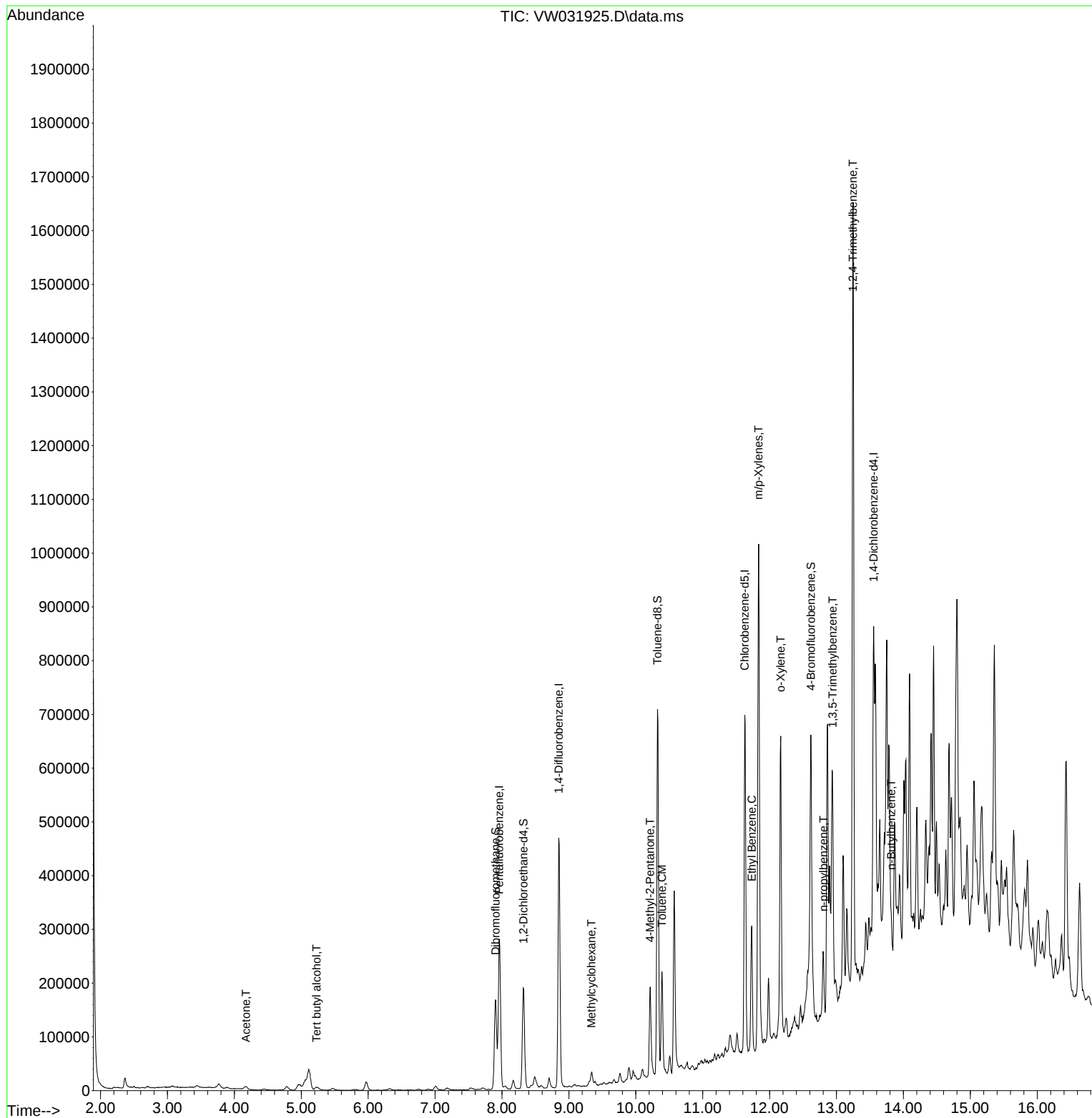
Internal Standards						
1) Pentafluorobenzene	7.959	168	190744	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	390532	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	341873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	143175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	151175	52.392	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 104.780%	
35) Dibromofluoromethane	7.904	113	125710	47.371	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 94.740%	
50) Toluene-d8	10.325	98	457100	45.512	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 91.020%	
62) 4-Bromofluorobenzene	12.617	95	189739	49.200	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 98.400%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.228	59	10179	60.014	ug/l #	93
16) Acetone	4.173	43	8953	13.076	ug/l	97
39) Methylcyclohexane	9.337	83	8525	1.662	ug/l	90
51) 4-Methyl-2-Pentanone	10.215	43	108813	47.242	ug/l	99
52) Toluene	10.392	92	84571	10.905	ug/l	97
67) Ethyl Benzene	11.733	91	164955	11.221	ug/l	99
68) m/p-Xylenes	11.837	106	271298	49.021	ug/l	98
69) o-Xylene	12.166	106	145834	27.844	ug/l	97
78) n-propylbenzene	12.806	91	98442	6.452	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	189461	18.184	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	839773	79.633	ug/l	100
89) n-Butylbenzene	13.818	91	39921	3.694	ug/l #	75

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

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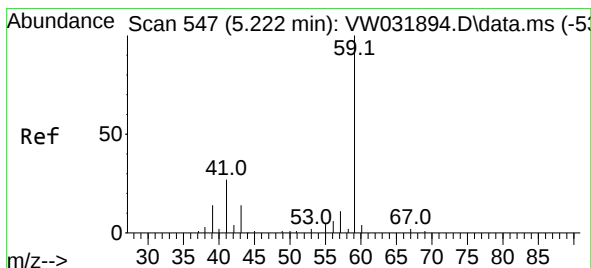
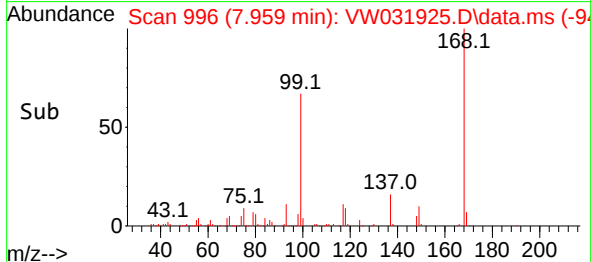
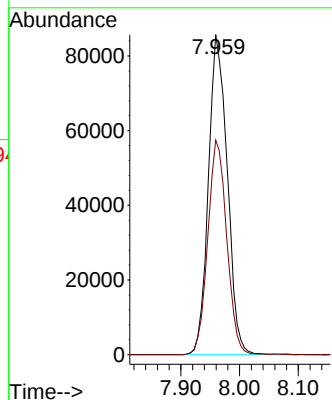
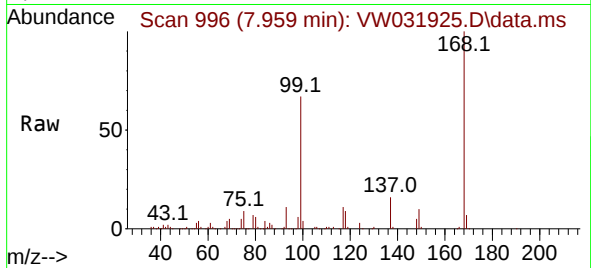




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

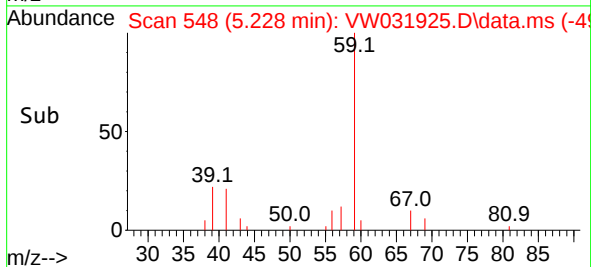
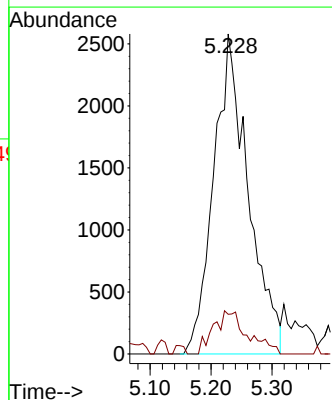
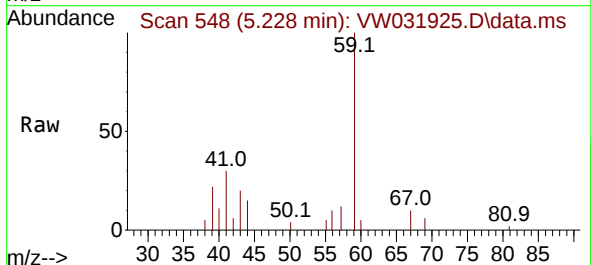
Instrument :
MSVOA_W
ClientSampleId :
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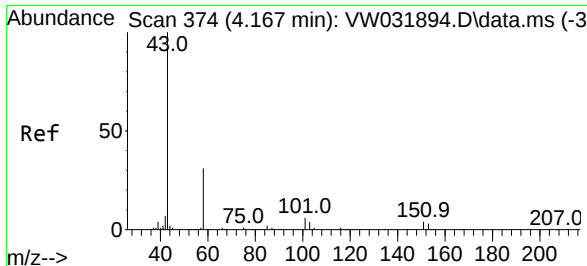
Tgt Ion:168 Resp: 190744
Ion Ratio Lower Upper
168 100
99 67.1 48.2 72.2



#11
Tert butyl alcohol
Concen: 60.014 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion: 59 Resp: 10179
Ion Ratio Lower Upper
59 100
57 13.2 8.6 12.8#

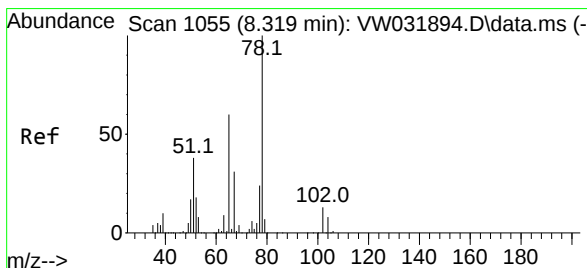
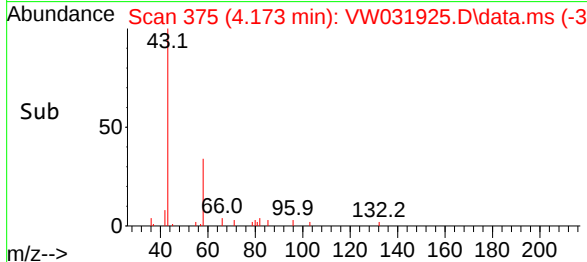
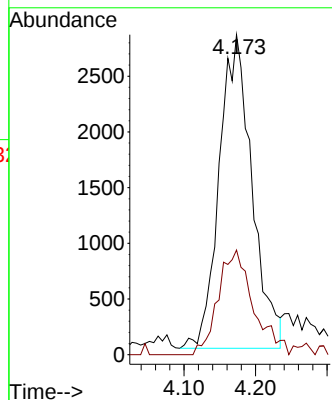
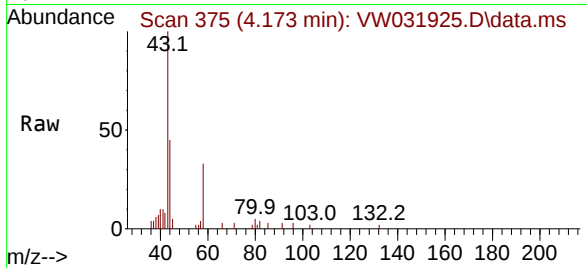




#16
Acetone
Concen: 13.076 ug/l
RT: 4.173 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

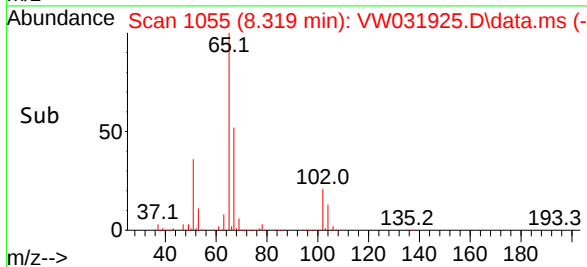
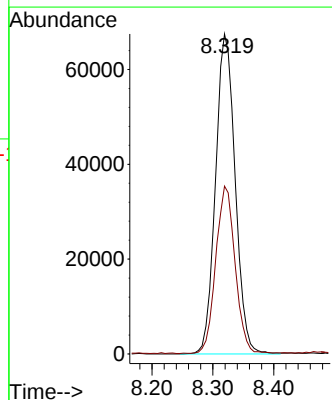
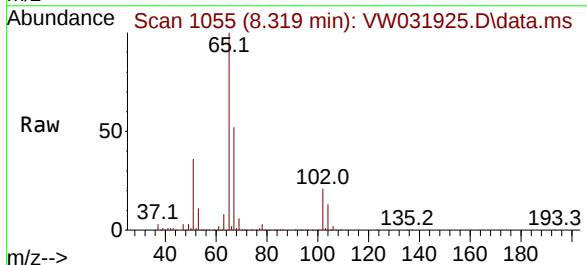
Instrument :
MSVOA_W
ClientSampleId :
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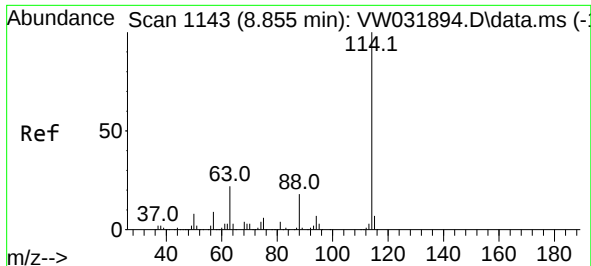
Tgt Ion: 43 Resp: 8953
Ion Ratio Lower Upper
43 100
58 33.4 25.5 38.3



#33
1,2-Dichloroethane-d4
Concen: 52.392 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion: 65 Resp: 151175
Ion Ratio Lower Upper
65 100
67 51.3 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: VW031925.D

Acq: 24 Jul 2025 14:35

Instrument :

MSVOA_W

ClientSampleId :

299

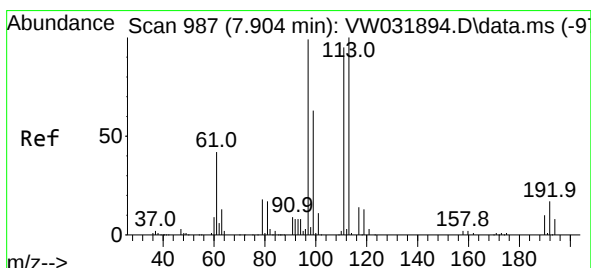
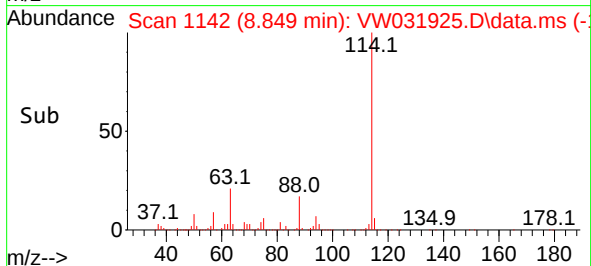
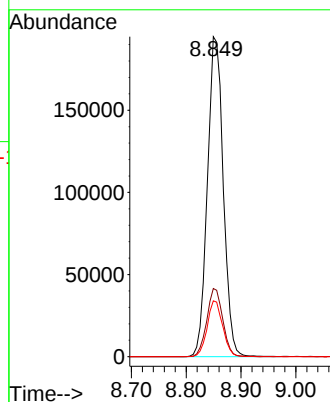
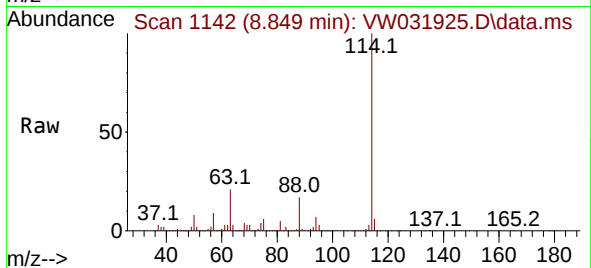
Tgt Ion:114 Resp: 390532

Ion Ratio Lower Upper

114 100

63 21.3 0.0 44.2

88 17.4 0.0 35.6



#35

Dibromofluoromethane

Concen: 47.371 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW031925.D

Acq: 24 Jul 2025 14:35

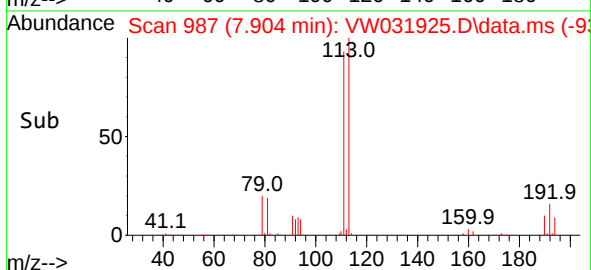
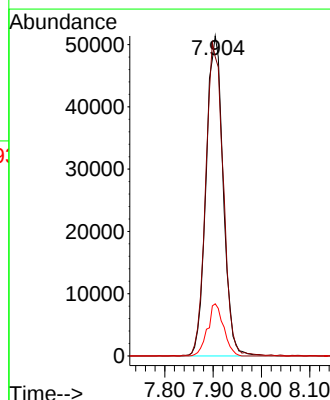
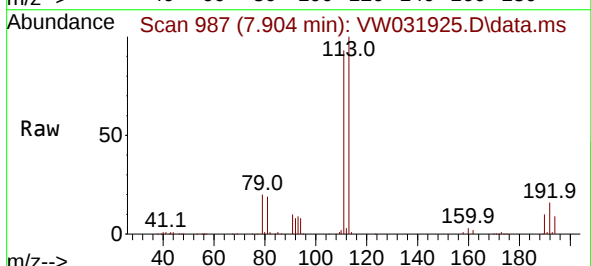
Tgt Ion:113 Resp: 125710

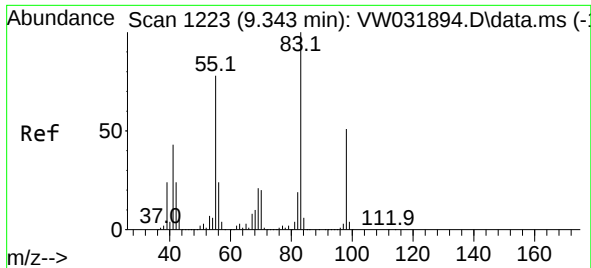
Ion Ratio Lower Upper

113 100

111 100.4 79.9 119.9

192 15.4 12.6 19.0

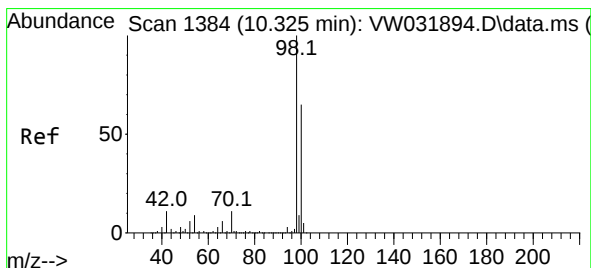
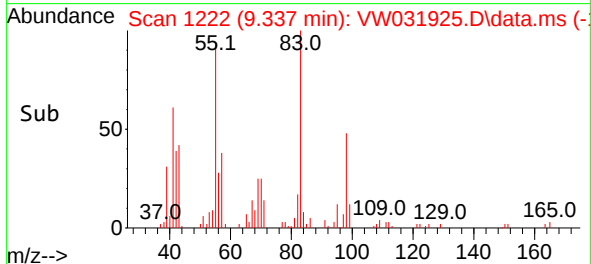
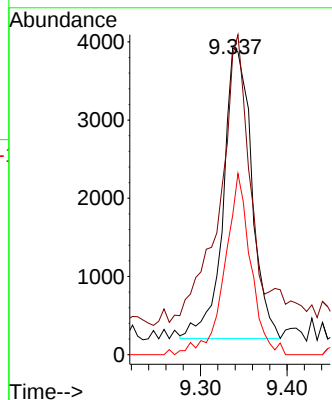
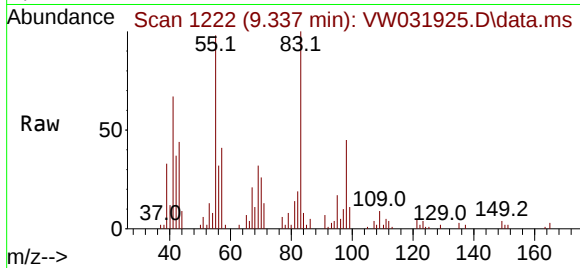




#39
Methylcyclohexane
Concen: 1.662 ug/l
RT: 9.337 min Scan# 1222
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

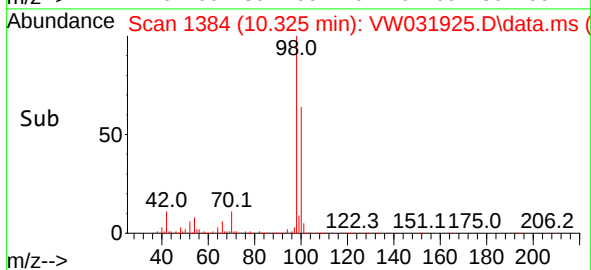
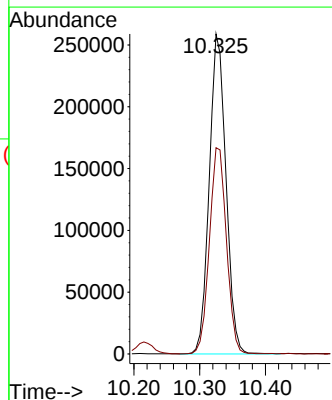
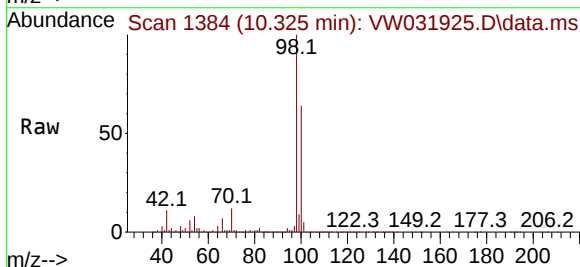
Instrument :
MSVOA_W
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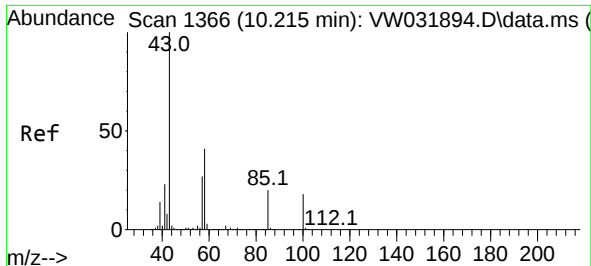
Tgt Ion: 83	Resp: 8525
Ion Ratio	Lower Upper
83	100
55	89.7 62.5 93.7
98	46.5 40.6 61.0



#50
Toluene-d8
Concen: 45.512 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion: 98	Resp: 457100
Ion Ratio	Lower Upper
98	100
100	65.8 51.7 77.5

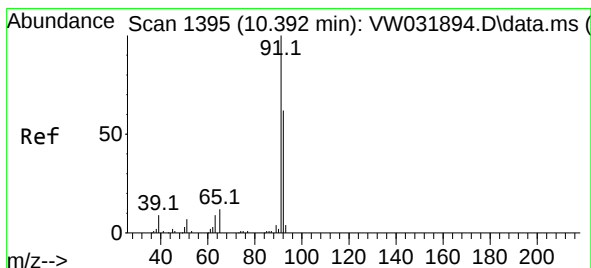
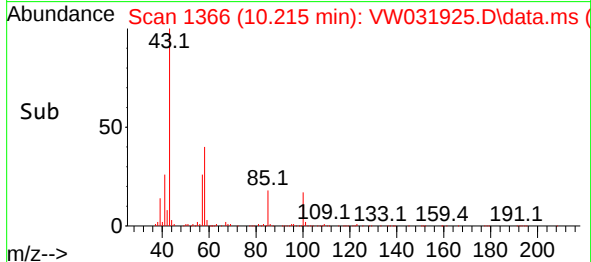
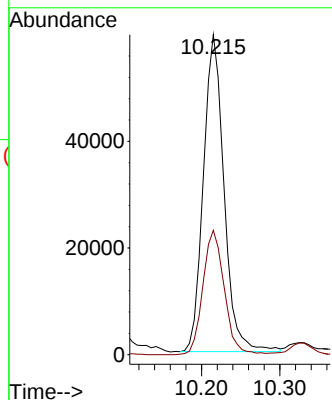
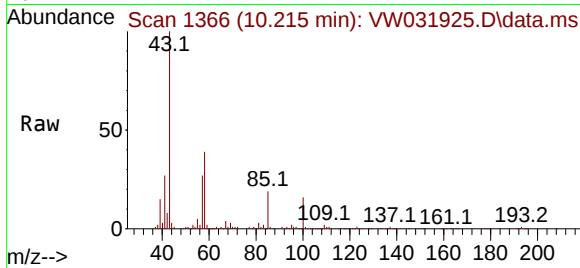




#51
4-Methyl-2-Pentanone
Concen: 47.242 ug/l
RT: 10.215 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

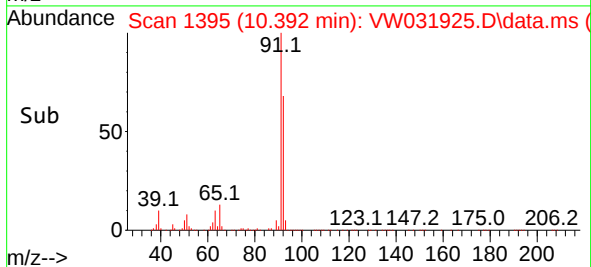
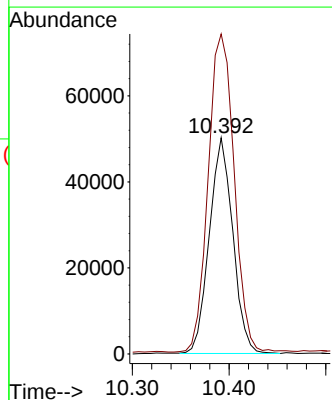
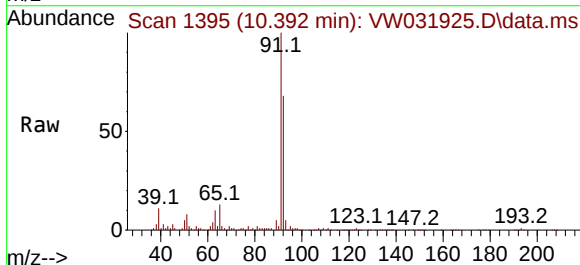
Instrument :
MSVOA_W
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299

Tgt Ion: 43 Resp: 108813
Ion Ratio Lower Upper
43 100
58 40.5 32.8 49.2



#52
Toluene
Concen: 10.905 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion: 92 Resp: 84571
Ion Ratio Lower Upper
92 100
91 162.7 133.7 200.5

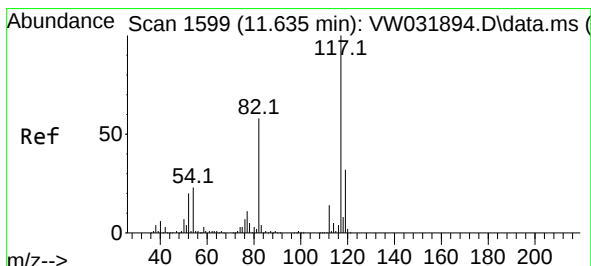
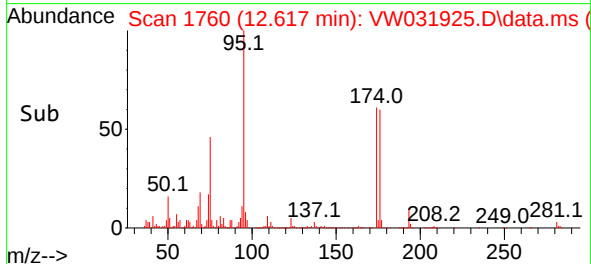
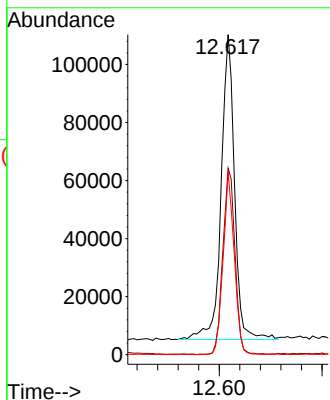
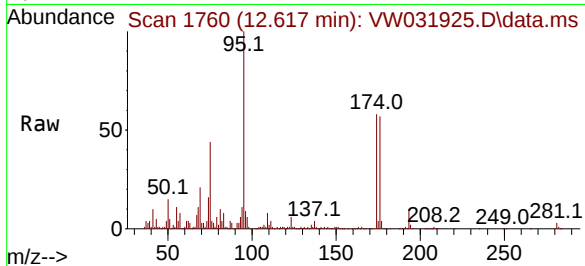




#62
4-Bromofluorobenzene
Concen: 49.200 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

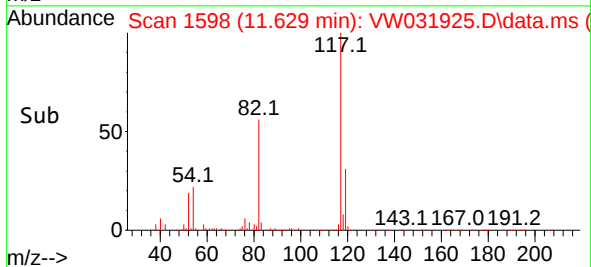
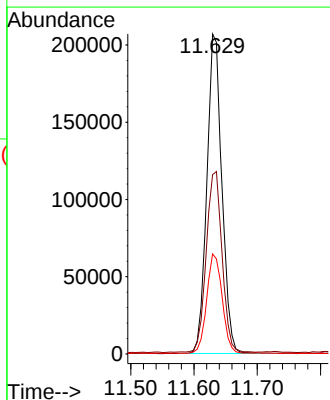
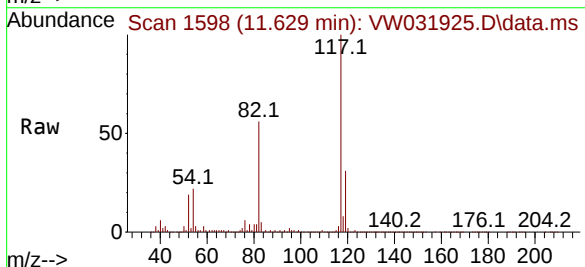
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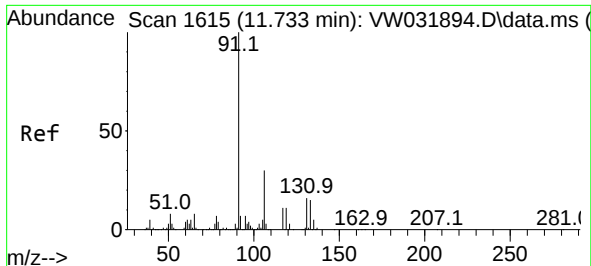
Tgt Ion: 95 Resp: 189739
Ion Ratio Lower Upper
95 100
174 55.7 0.0 129.8
176 50.0 0.0 130.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion: 117 Resp: 341873
Ion Ratio Lower Upper
117 100
82 55.5 46.5 69.7
119 31.1 25.8 38.6

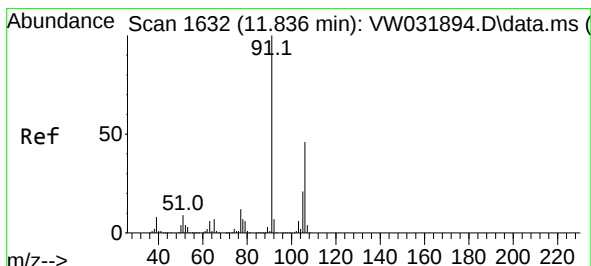
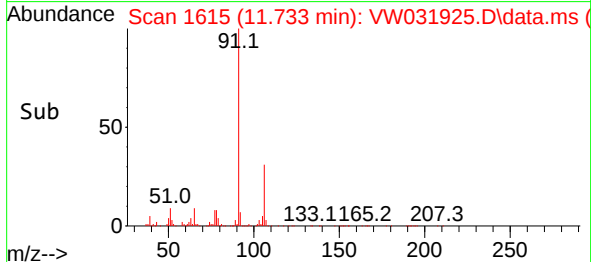
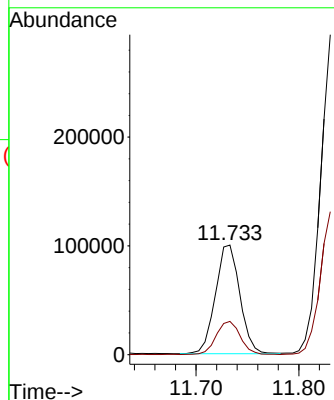
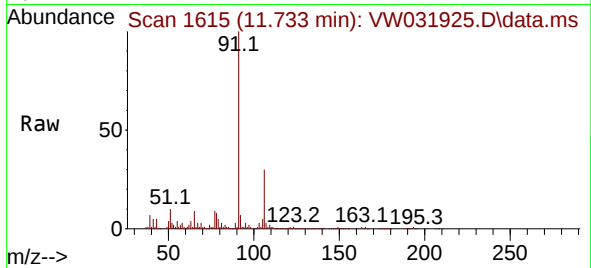




#67
Ethyl Benzene
Concen: 11.221 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

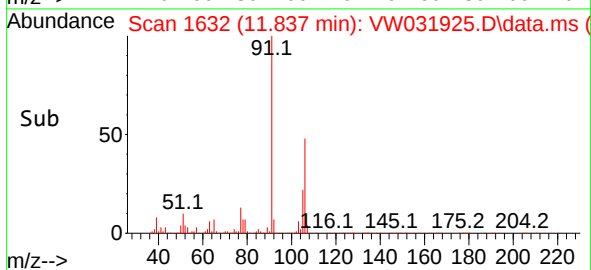
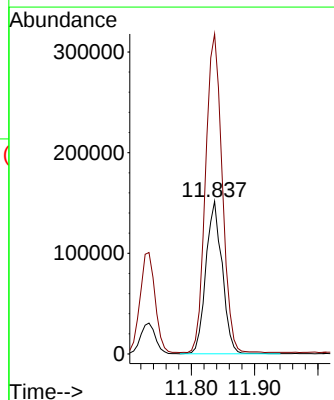
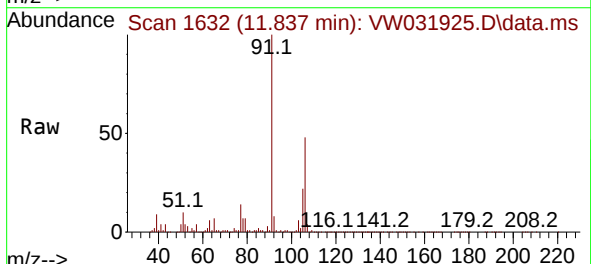
Instrument :
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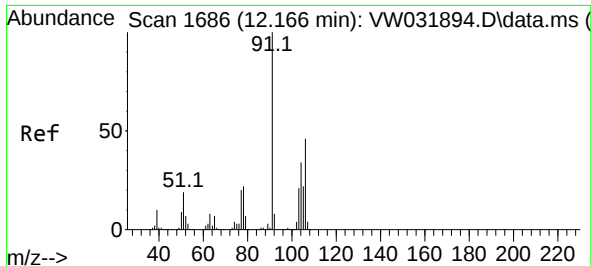
Tgt Ion: 91 Resp: 164955
Ion Ratio Lower Upper
91 100
106 30.4 23.8 35.6



#68
m/p-Xylenes
Concen: 49.021 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion:106 Resp: 271298
Ion Ratio Lower Upper
106 100
91 213.4 167.7 251.5

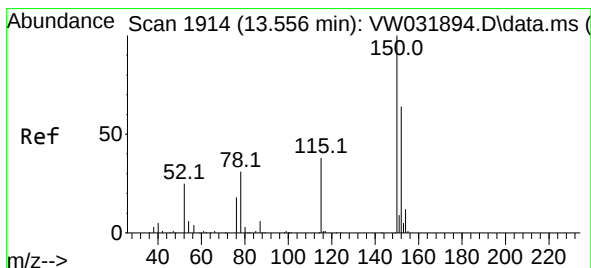
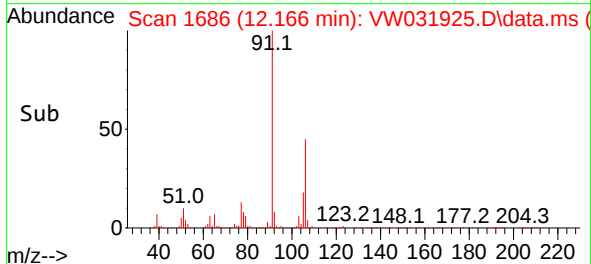
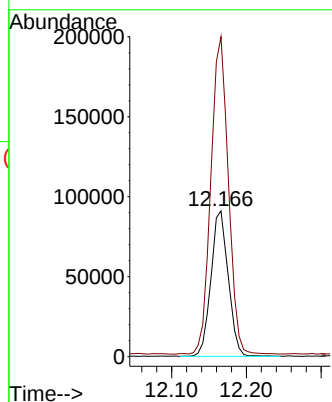
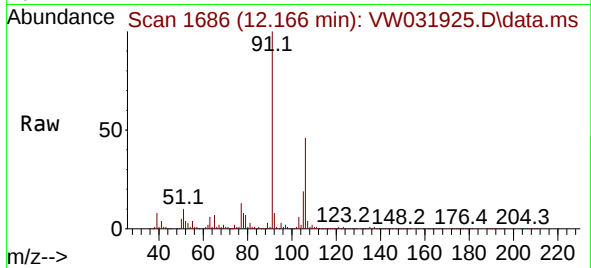




#69
o-Xylene
Concen: 27.844 ug/l
RT: 12.166 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

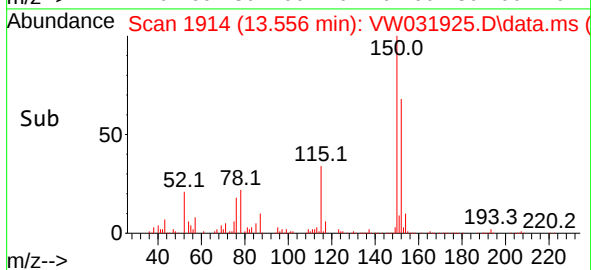
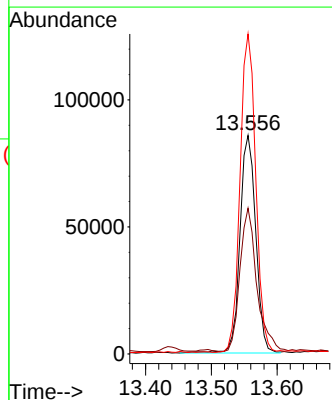
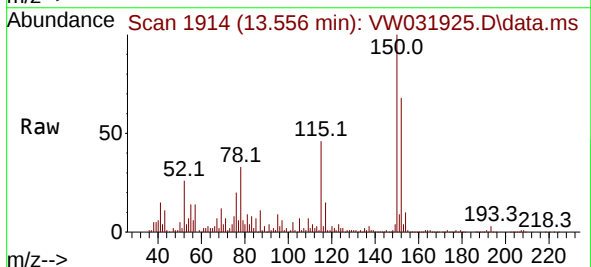
Instrument :
MSVOA_W
ClientSampleId :
299

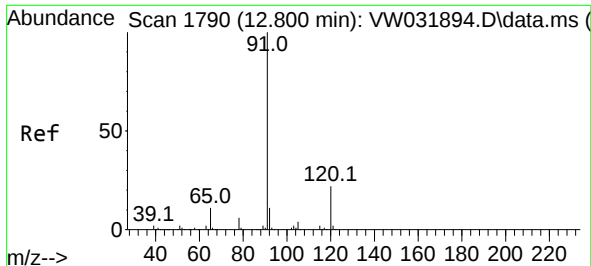
Tgt Ion:106 Resp: 145834
Ion Ratio Lower Upper
106 100
91 220.9 108.2 324.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion:152 Resp: 143175
Ion Ratio Lower Upper
152 100
115 70.8 33.4 100.1
150 145.3 0.0 352.2

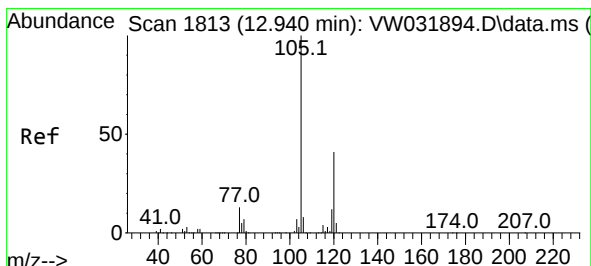
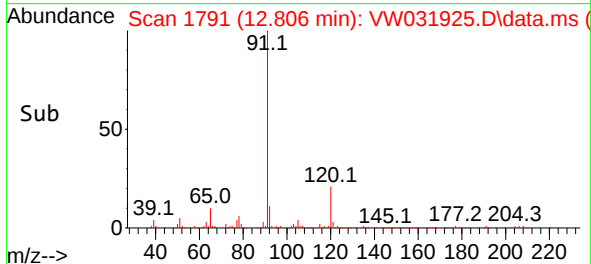
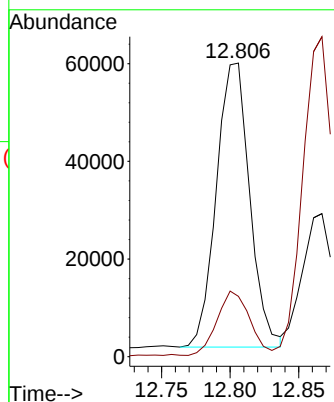
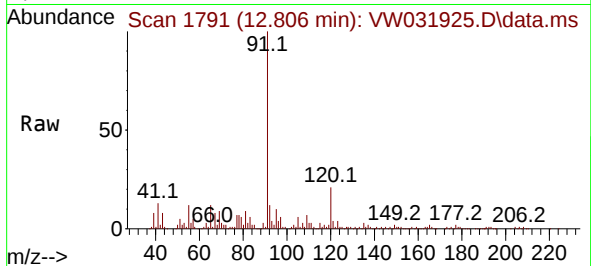




#78
n-propylbenzene
Concen: 6.452 ug/l
RT: 12.806 min Scan# 1790
Delta R.T. 0.006 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

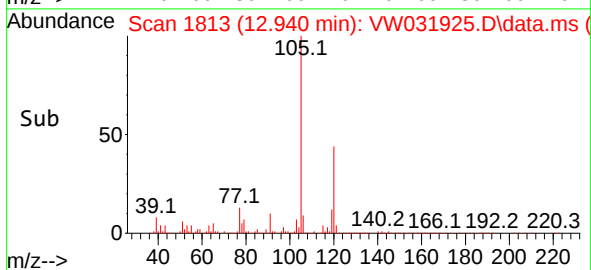
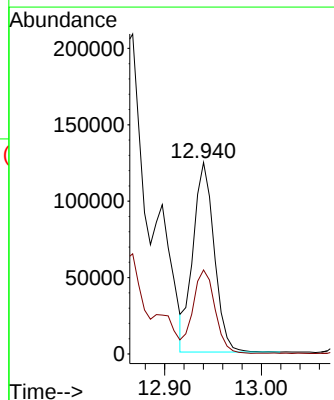
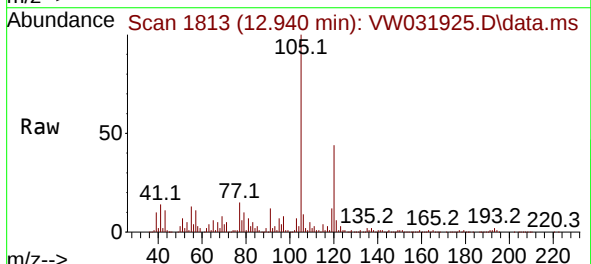
Instrument :
MSVOA_W
ClientSampleId :
299

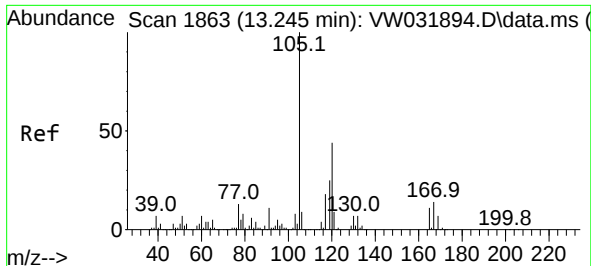
Tgt Ion: 91 Resp: 98442
Ion Ratio Lower Upper
91 100
120 22.6 10.9 32.6



#80
1,3,5-Trimethylbenzene
Concen: 18.184 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion:105 Resp: 189461
Ion Ratio Lower Upper
105 100
120 45.5 23.5 70.5

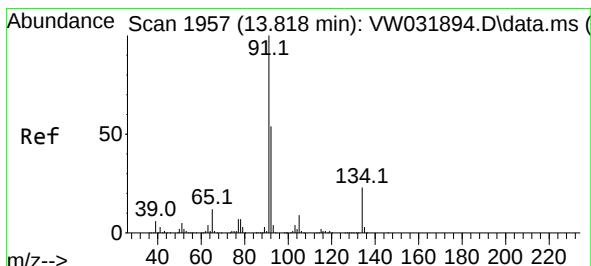
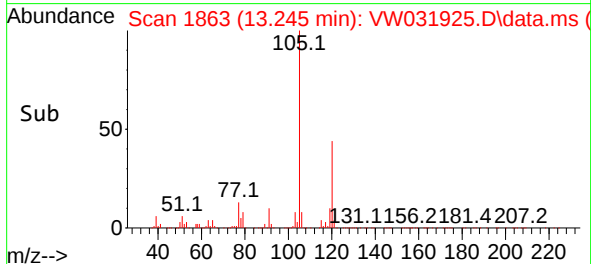
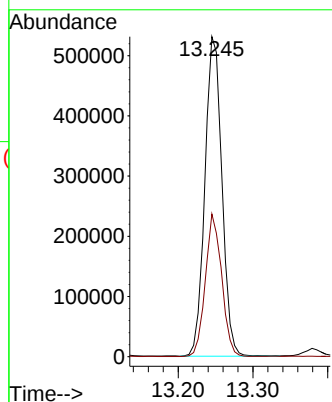
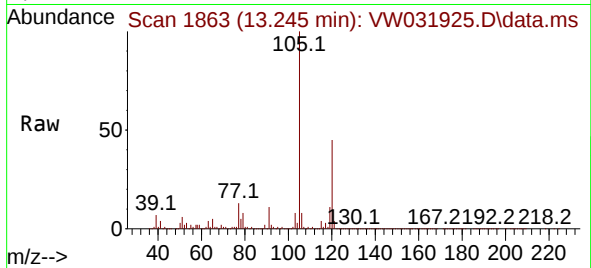




#84
1,2,4-Trimethylbenzene
Concen: 79.633 ug/l
RT: 13.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Instrument :
MSVOA_W
ClientSampleId :
299

Tgt Ion:105 Resp: 839773
Ion Ratio Lower Upper
105 100
120 42.8 21.3 63.9



#89
n-Butylbenzene
Concen: 3.694 ug/l
RT: 13.818 min Scan# 1957
Delta R.T. 0.000 min
Lab File: VW031925.D
Acq: 24 Jul 2025 14:35

Tgt Ion: 91 Resp: 39921
Ion Ratio Lower Upper
91 100
92 65.8 27.2 81.5
134 0.0 11.6 34.7#

