

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100725\
 Data File : VW032374.D
 Acq On : 07 Oct 2025 12:13
 Operator : SY/MD
 Sample : Q3272-03
 Misc : 4.75g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 R7

Quant Time: Oct 07 13:25:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 02 21:24:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	171087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	382582	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	380435	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	169277	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	156206	62.597	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 125.200%	
35) Dibromofluoromethane	7.898	113	134013	54.089	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 108.180%	
50) Toluene-d8	10.325	98	496124	54.254	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 108.500%	
62) 4-Bromofluorobenzene	12.617	95	172202	49.823	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 99.640%	

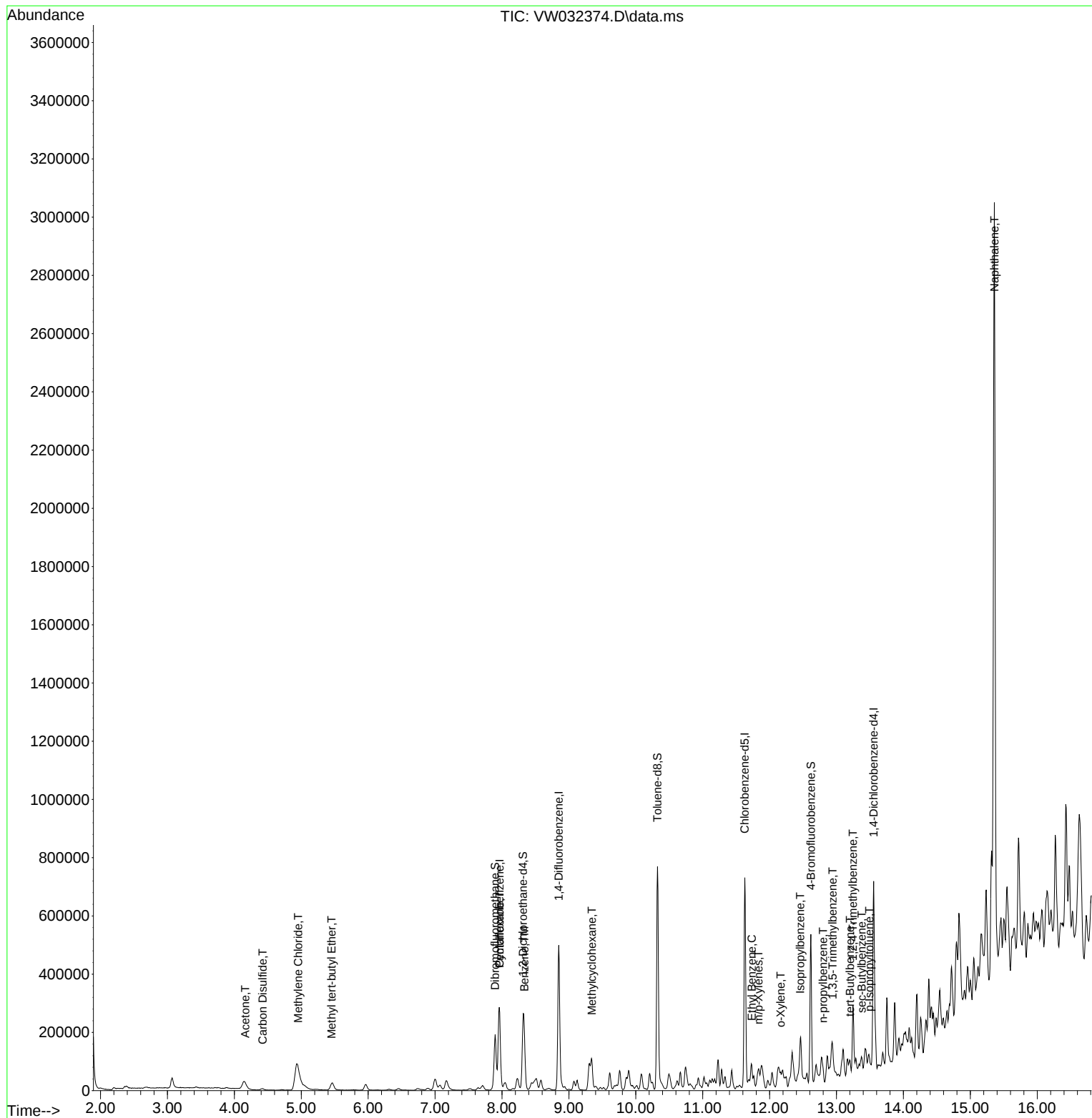
Target Compounds			Qvalue			
16) Acetone	4.161	43	27256	39.446	ug/l #	80
17) Carbon Disulfide	4.423	76	11063	2.103	ug/l	95
19) Methyl tert-butyl Ether	5.454	73	12578	3.312	ug/l #	1
20) Methylene Chloride	4.954	84	36133	11.702	ug/l	99
31) Cyclohexane	7.965	56	27714	7.889	ug/l #	88
39) Methylcyclohexane	9.343	83	44921	10.650	ug/l #	87
40) Benzene	8.337	78	116298	10.611	ug/l	93
67) Ethyl Benzene	11.733	91	44143	3.164	ug/l	95
68) m/p-Xylenes	11.837	106	14542	2.703	ug/l	90
69) o-Xylene	12.166	106	8487	1.687	ug/l	83
73) Isopropylbenzene	12.458	105	66165	5.713	ug/l	98
78) n-propylbenzene	12.800	91	34560	2.389	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	25537	2.550	ug/l	95
83) tert-Butylbenzene	13.202	119	14701	1.789	ug/l	92
84) 1,2,4-Trimethylbenzene	13.245	105	126883	12.461	ug/l	98
85) sec-Butylbenzene	13.379	105	23573	1.877	ug/l #	57
86) p-Isopropyltoluene	13.489	119	17196	1.650	ug/l	94
95) Naphthalene	15.360	128	2229163	302.928	ug/l	99

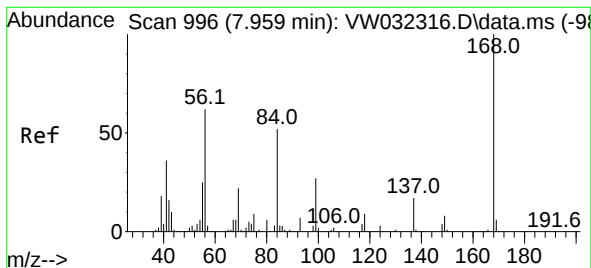
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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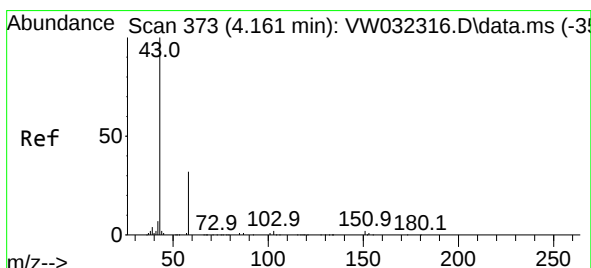
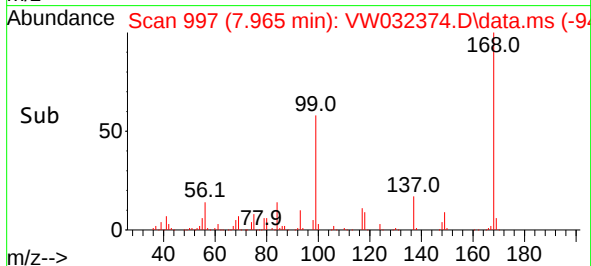
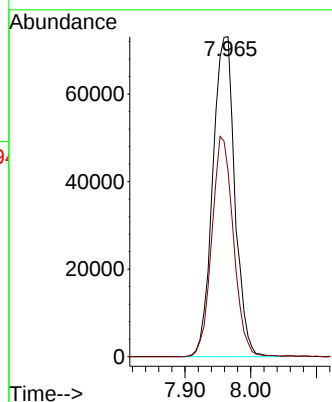
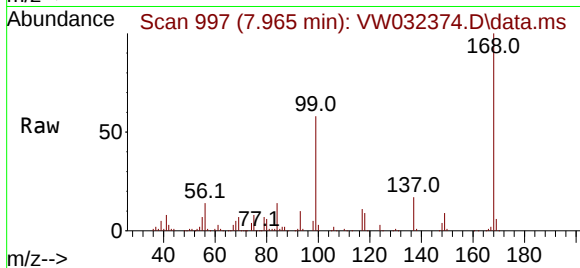




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

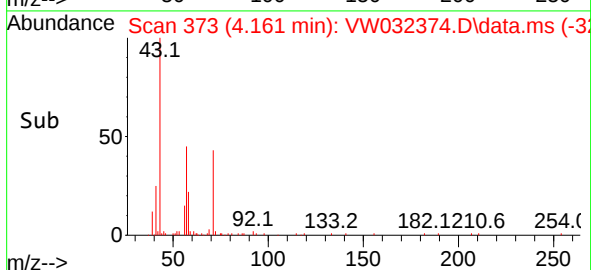
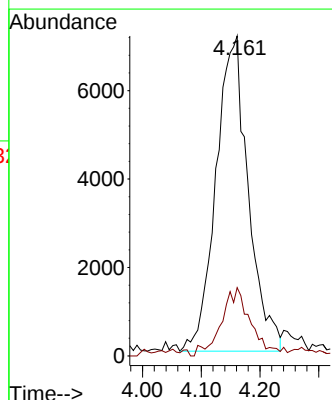
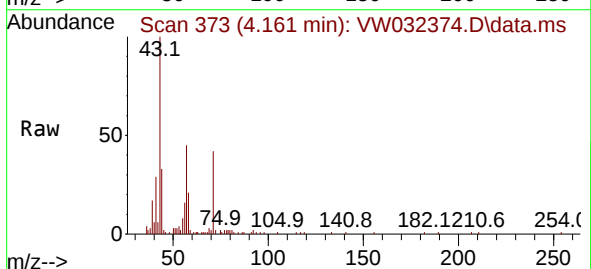
Instrument :
MSVOA_W
ClientSampleId :
R7

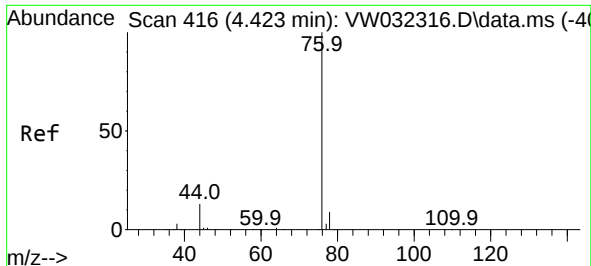
Tgt Ion:168 Resp: 171087
Ion Ratio Lower Upper
168 100
99 58.2 49.3 73.9



#16
Acetone
Concen: 39.446 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

Tgt Ion: 43 Resp: 27256
Ion Ratio Lower Upper
43 100
58 20.6 25.3 37.9#

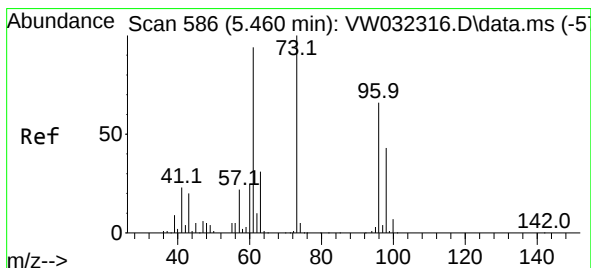
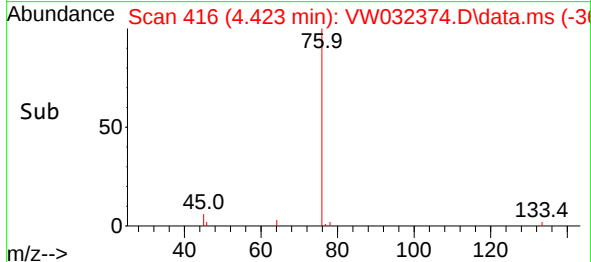
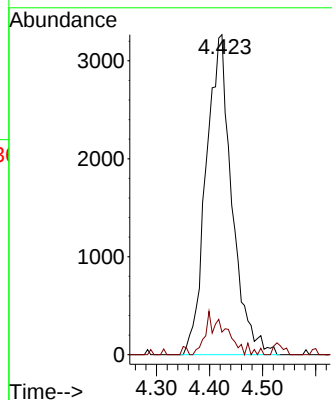
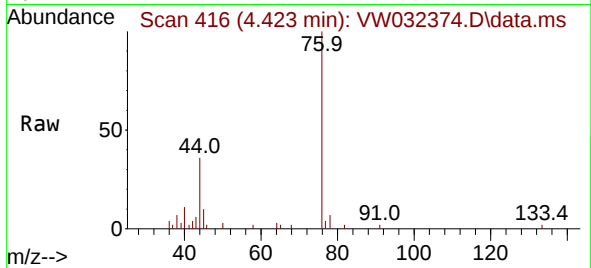




#17
Carbon Disulfide
Concen: 2.103 ug/l
RT: 4.423 min Scan# 416
Delta R.T. -0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

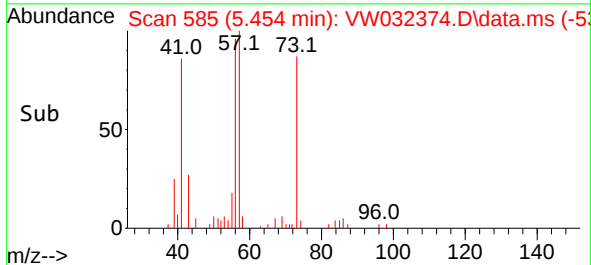
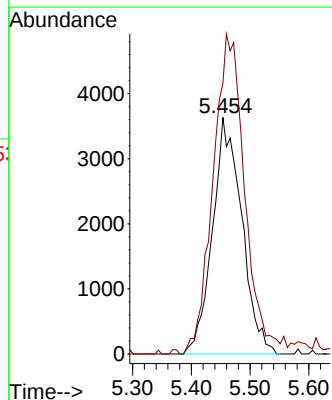
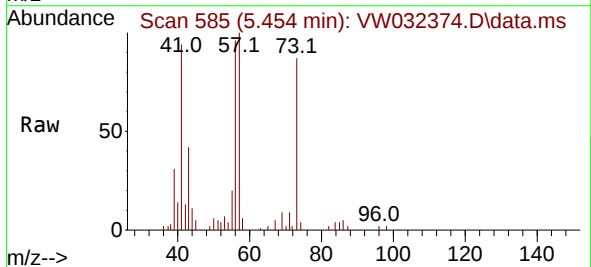
Instrument :
MSVOA_W
ClientSampleId :
R7

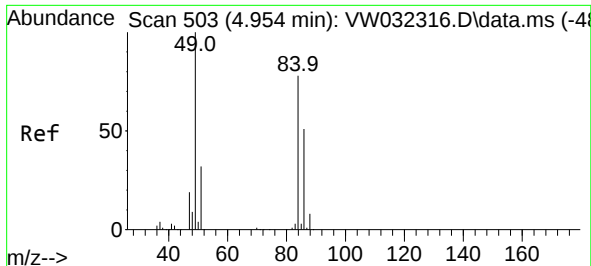
Tgt Ion: 76 Resp: 11063
Ion Ratio Lower Upper
76 100
78 7.0 7.0 10.6



#19
Methyl tert-butyl Ether
Concen: 3.312 ug/l
RT: 5.454 min Scan# 585
Delta R.T. -0.012 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

Tgt Ion: 73 Resp: 12578
Ion Ratio Lower Upper
73 100
57 114.4 16.2 24.4#

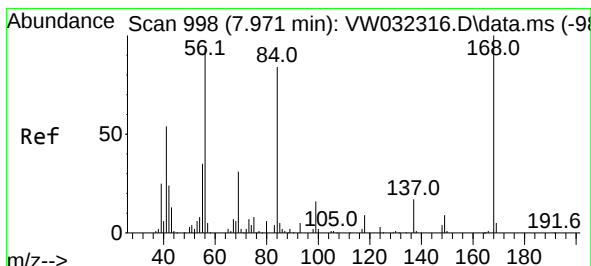
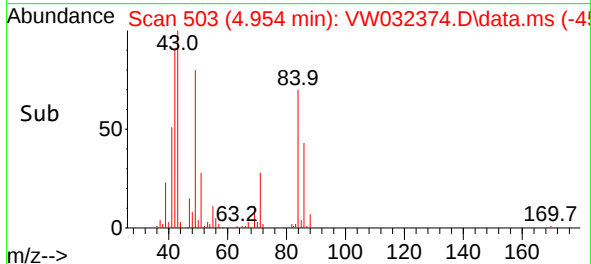
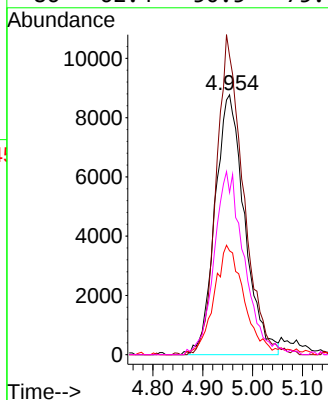
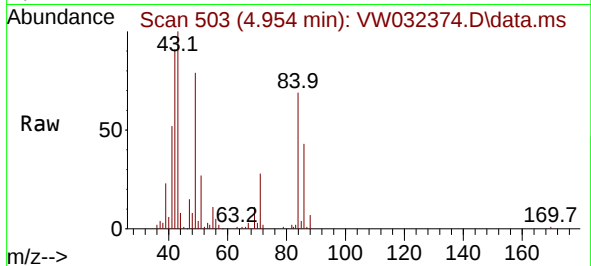




#20
Methylene Chloride
Concen: 11.702 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

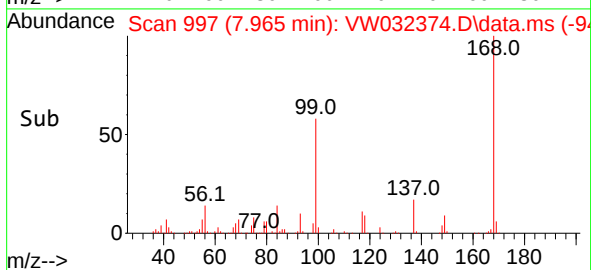
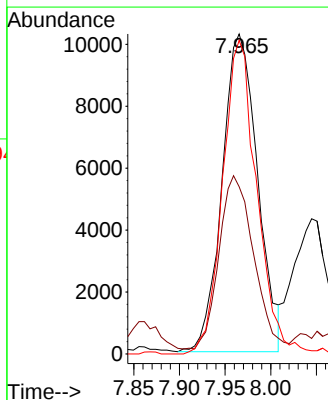
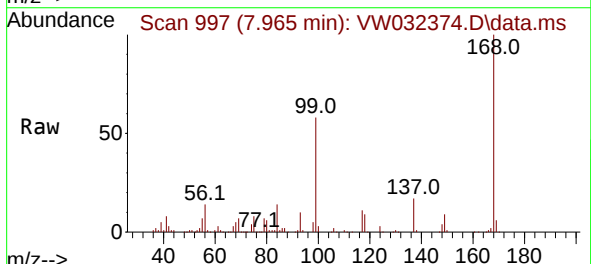
Instrument :
MSVOA_W
ClientSampleId :
R7

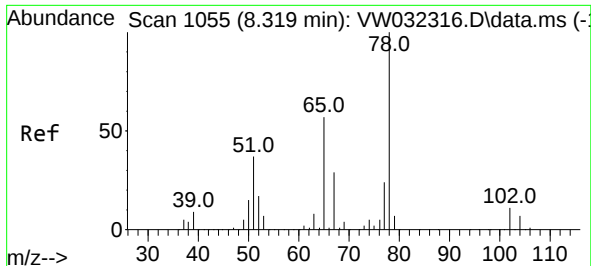
Tgt Ion:	84	Resp:	36133
Ion	Ratio	Lower	Upper
84	100		
49	114.4	92.2	138.4
51	39.9	31.0	46.6
86	62.4	50.5	75.7



#31
Cyclohexane
Concen: 7.889 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

Tgt Ion:	56	Resp:	27714
Ion	Ratio	Lower	Upper
56	100		
69	50.8	27.7	41.5
84	98.7	74.6	112.0





#33

1,2-Dichloroethane-d4

Concen: 62.597 ug/l

RT: 8.313 min Scan# 1054

Delta R.T. -0.006 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Instrument :

MSVOA_W

ClientSampleId :

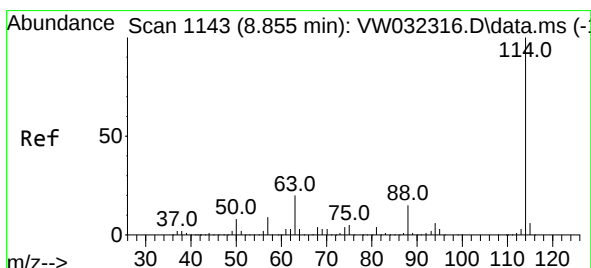
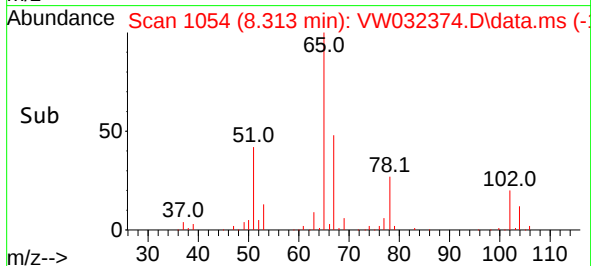
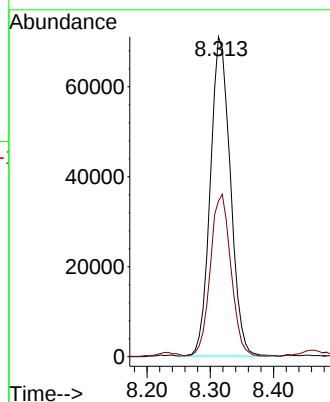
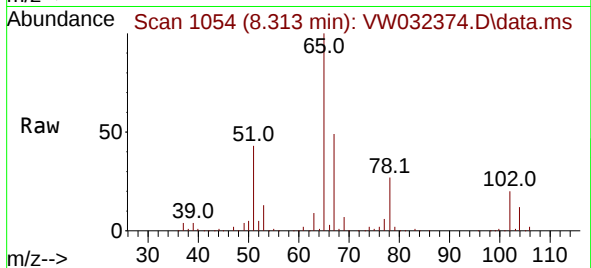
R7

Tgt Ion: 65 Resp: 156206

Ion Ratio Lower Upper

65 100

67 51.8 0.0 99.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

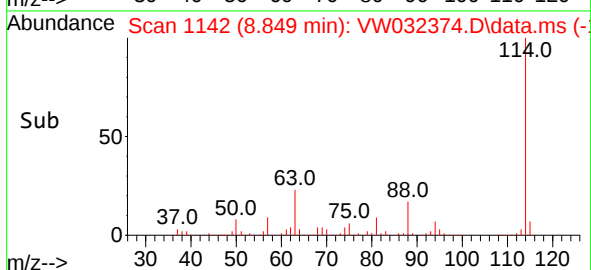
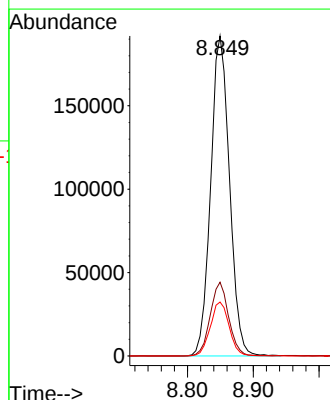
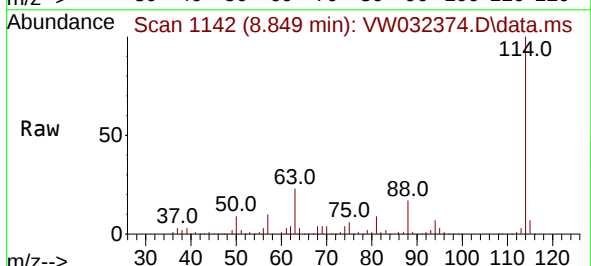
Tgt Ion: 114 Resp: 382582

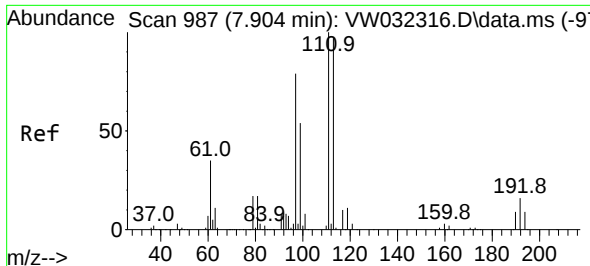
Ion Ratio Lower Upper

114 100

63 23.0 0.0 40.4

88 16.9 0.0 32.0

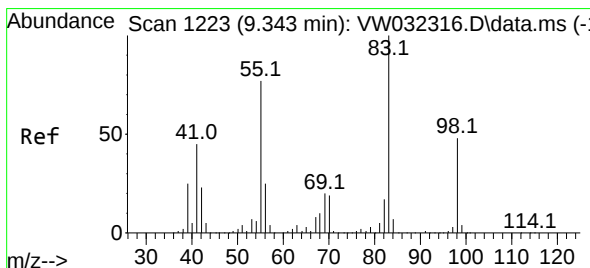
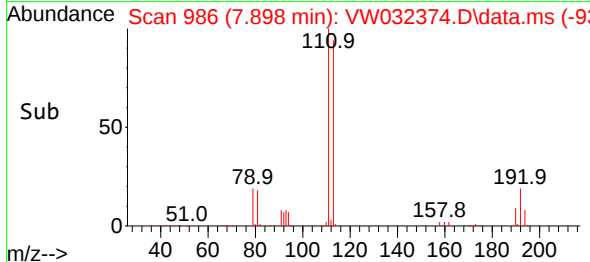
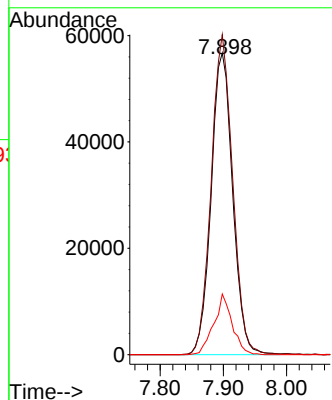
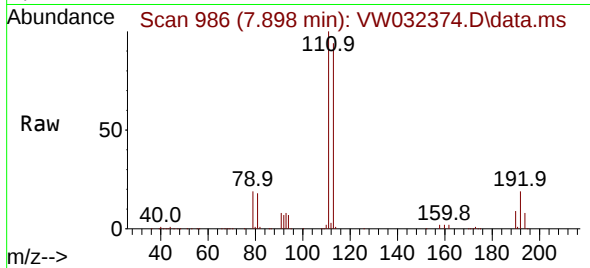




#35
Dibromofluoromethane
Concen: 54.089 ug/l
RT: 7.898 min Scan# 91
Delta R.T. -0.006 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

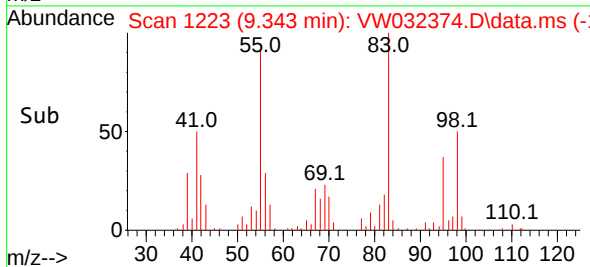
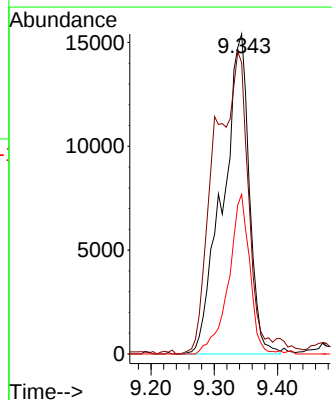
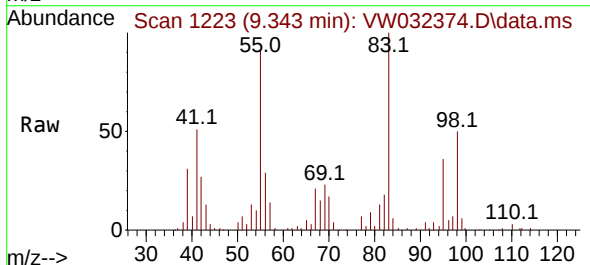
Instrument :
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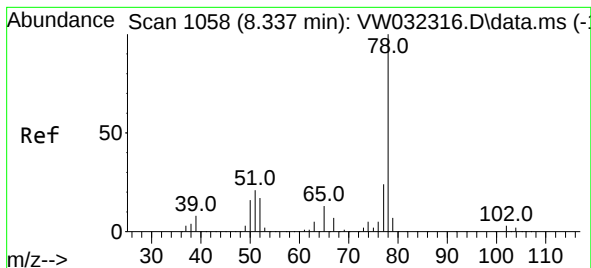
Tgt Ion:113 Resp: 134013
Ion Ratio Lower Upper
113 100
111 105.7 83.9 125.9
192 17.2 14.6 21.8



#39
Methylcyclohexane
Concen: 10.650 ug/l
RT: 9.343 min Scan# 1223
Delta R.T. -0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

Tgt Ion: 83 Resp: 44921
Ion Ratio Lower Upper
83 100
55 91.0 58.4 87.6#
98 49.9 39.4 59.2





#40

Benzene

Concen: 10.611 ug/l

RT: 8.337 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Instrument :

MSVOA_W

ClientSampleId :

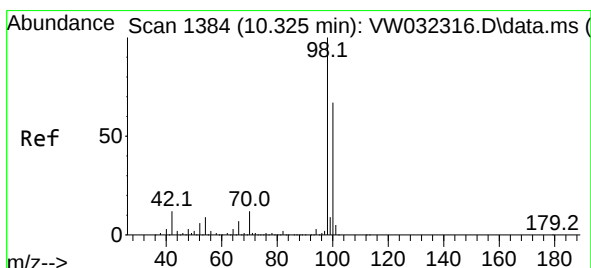
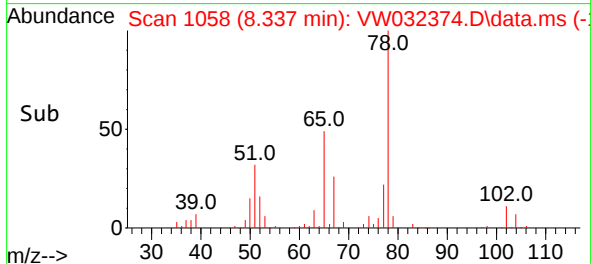
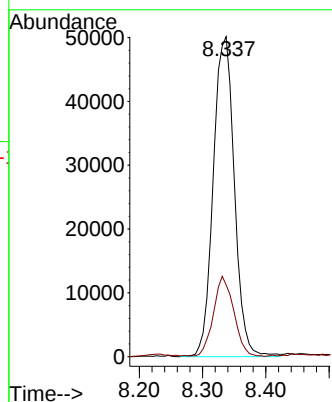
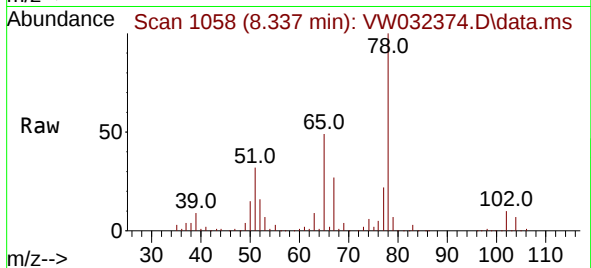
R7

Tgt Ion: 78 Resp: 116298

Ion Ratio Lower Upper

78 100

77 22.2 20.7 31.1



#50

Toluene-d8

Concen: 54.254 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VW032374.D

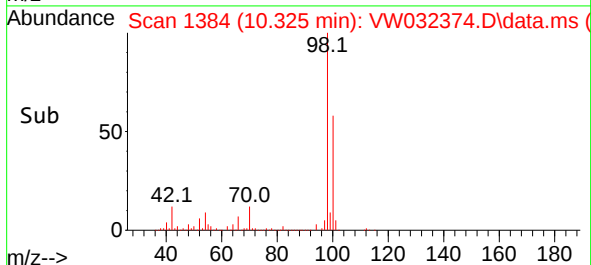
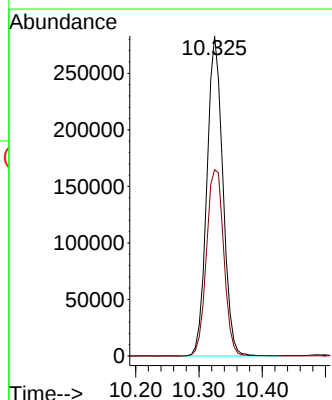
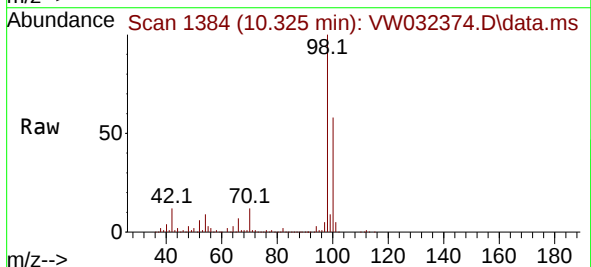
Acq: 07 Oct 2025 12:13

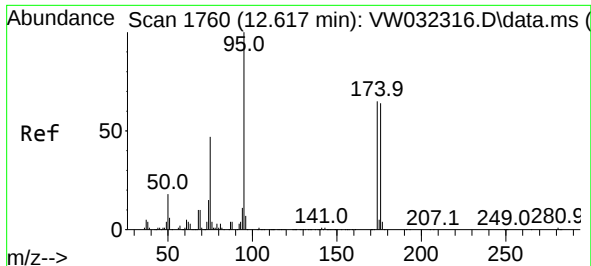
Tgt Ion: 98 Resp: 496124

Ion Ratio Lower Upper

98 100

100 63.2 51.4 77.2

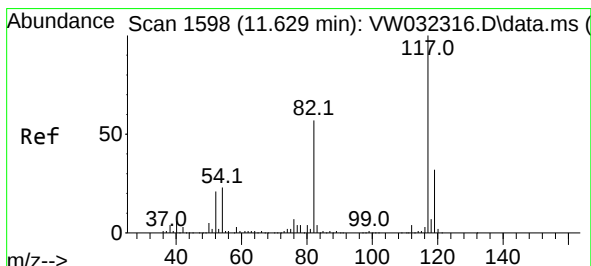
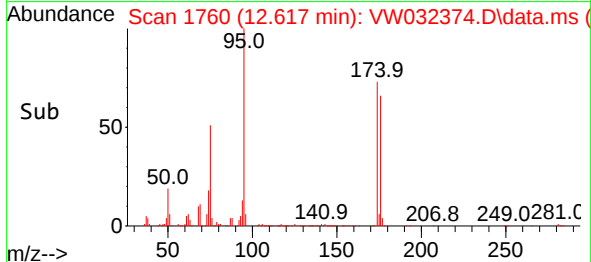
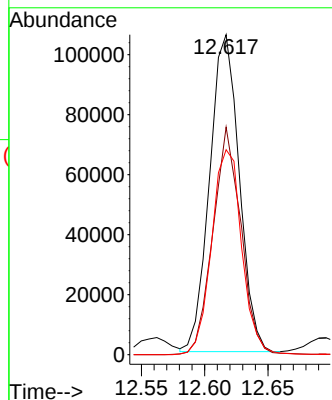
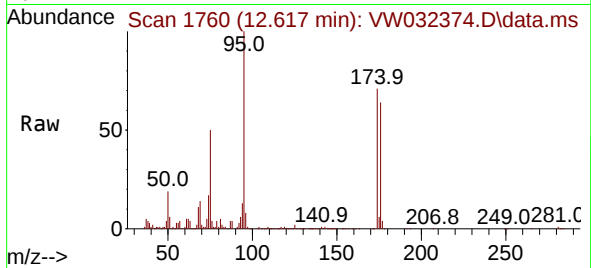




#62
4-Bromofluorobenzene
Concen: 49.823 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

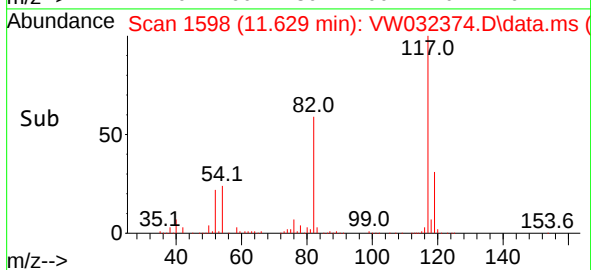
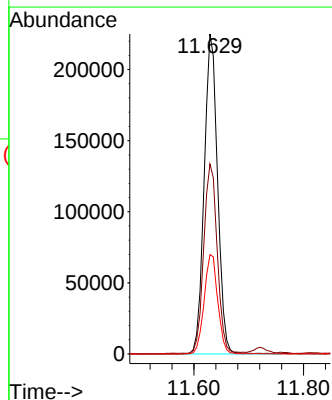
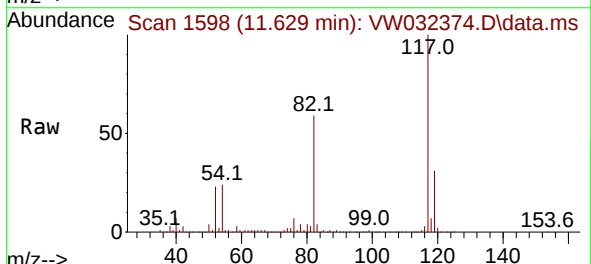
Instrument :
MSVOA_W
ClientSampleId :
R7

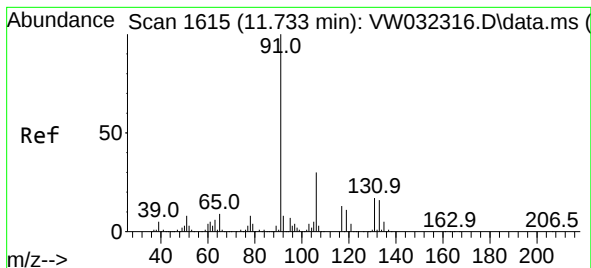
Tgt Ion: 95 Resp: 172202
Ion Ratio Lower Upper
95 100
174 68.0 0.0 145.6
176 65.8 0.0 140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

Tgt Ion: 117 Resp: 380435
Ion Ratio Lower Upper
117 100
82 59.2 42.7 64.1
119 31.1 25.2 37.8





#67

Ethyl Benzene

Concen: 3.164 ug/l

RT: 11.733 min Scan# 1615

Delta R.T. -0.000 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Instrument :

MSVOA_W

ClientSampleId :

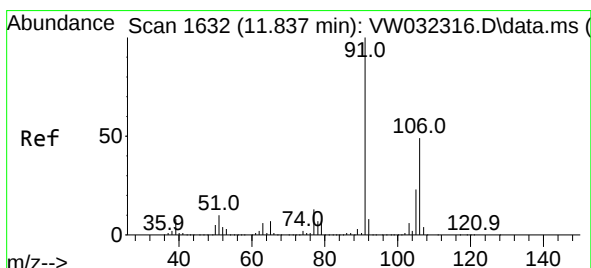
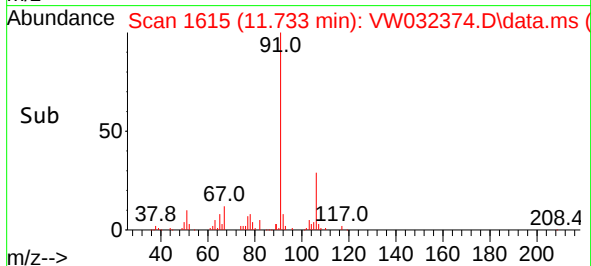
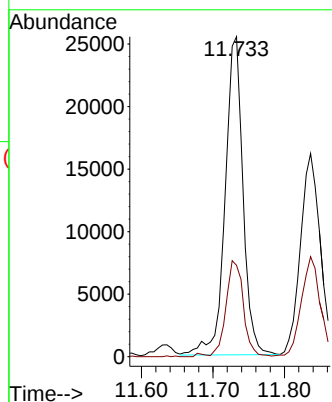
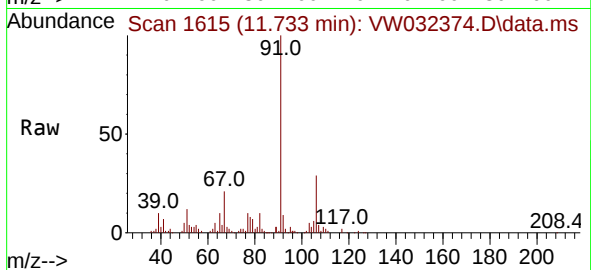
R7

Tgt Ion: 91 Resp: 44143

Ion Ratio Lower Upper

91 100

106 28.7 25.3 37.9



#68

m/p-Xylenes

Concen: 2.703 ug/l

RT: 11.837 min Scan# 1632

Delta R.T. -0.000 min

Lab File: VW032374.D

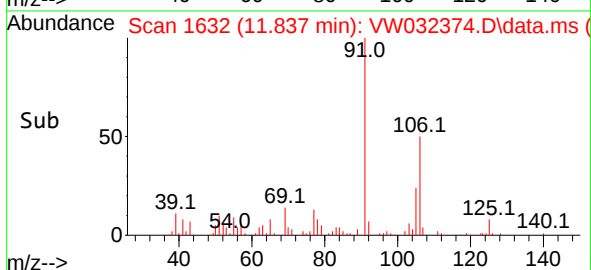
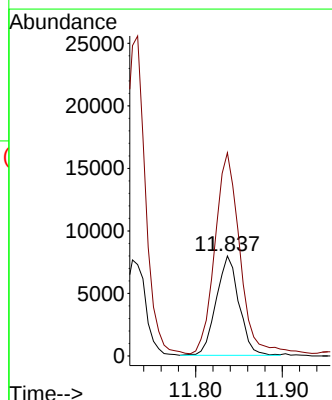
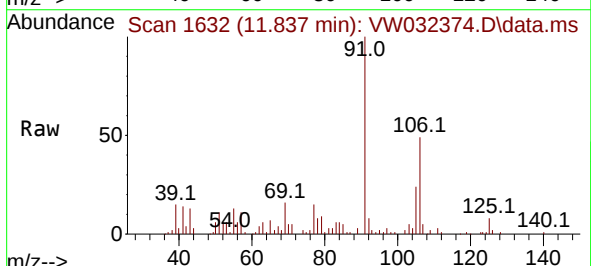
Acq: 07 Oct 2025 12:13

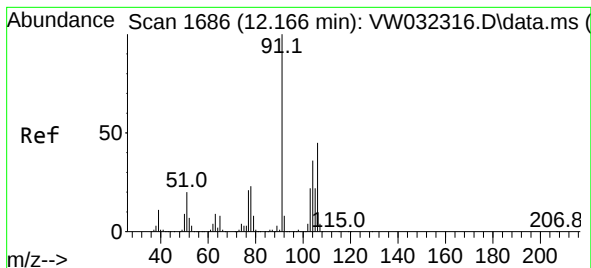
Tgt Ion: 106 Resp: 14542

Ion Ratio Lower Upper

106 100

91 221.1 164.2 246.2





#69

o-Xylene

Concen: 1.687 ug/l

RT: 12.166 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Instrument :

MSVOA_W

ClientSampleId :

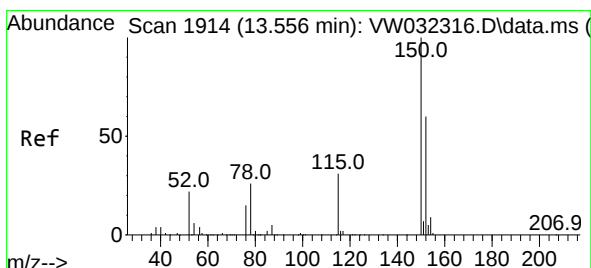
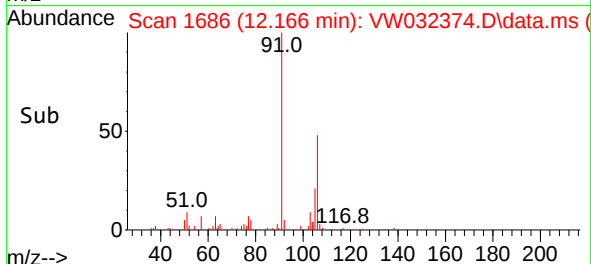
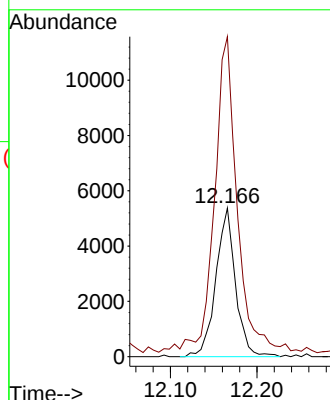
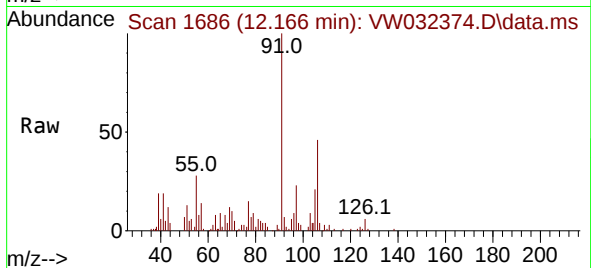
R7

Tgt Ion:106 Resp: 8487

Ion Ratio Lower Upper

106 100

91 245.2 108.7 326.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

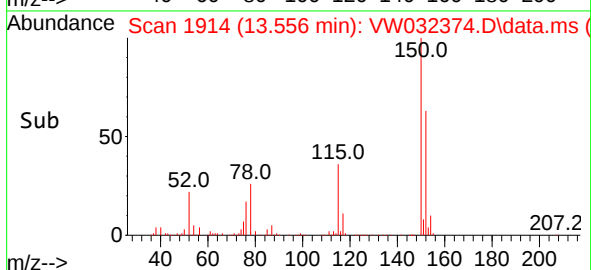
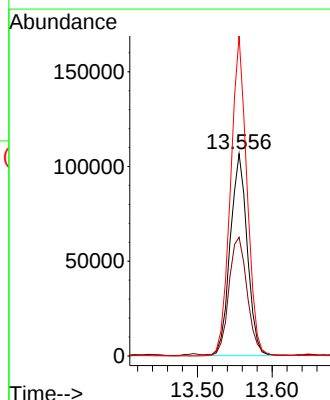
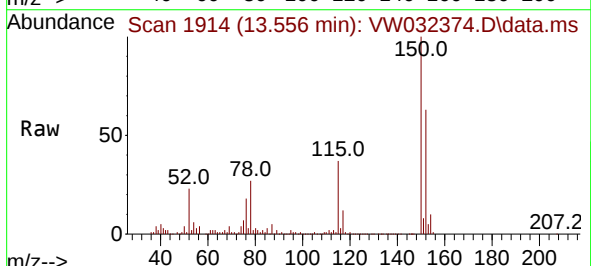
Tgt Ion:152 Resp: 169277

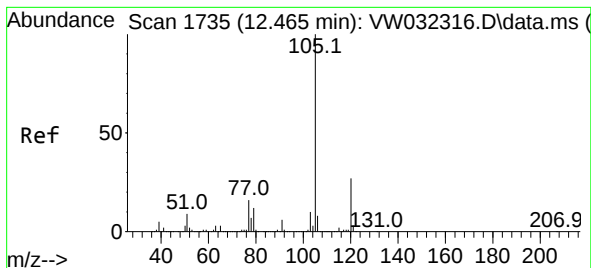
Ion Ratio Lower Upper

152 100

115 62.6 31.8 95.4

150 152.4 0.0 343.0





#73

Isopropylbenzene

Concen: 5.713 ug/l

RT: 12.458 min Scan# 1734

Delta R.T. -0.000 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Instrument :

MSVOA_W

ClientSampleId :

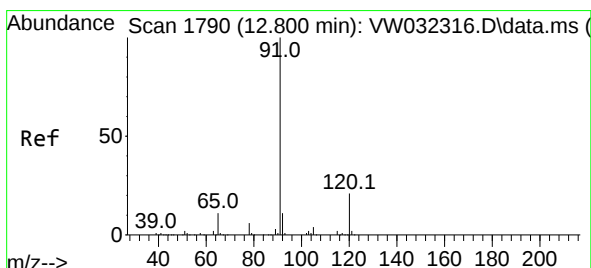
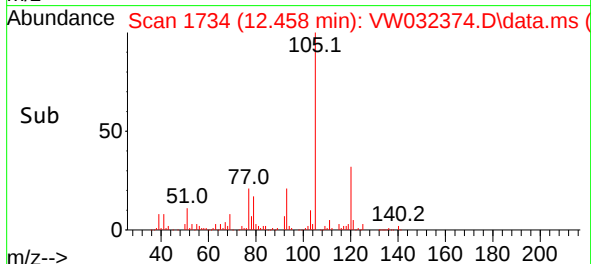
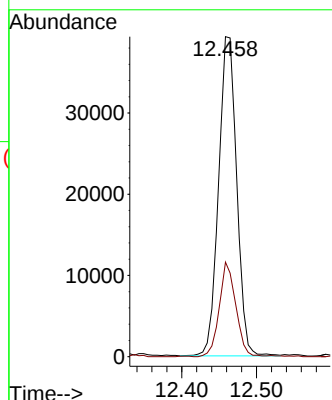
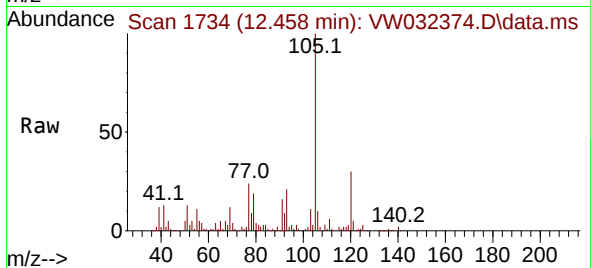
R7

Tgt Ion:105 Resp: 66165

Ion Ratio Lower Upper

105 100

120 27.0 13.0 38.9



#78

n-propylbenzene

Concen: 2.389 ug/l

RT: 12.800 min Scan# 1790

Delta R.T. -0.000 min

Lab File: VW032374.D

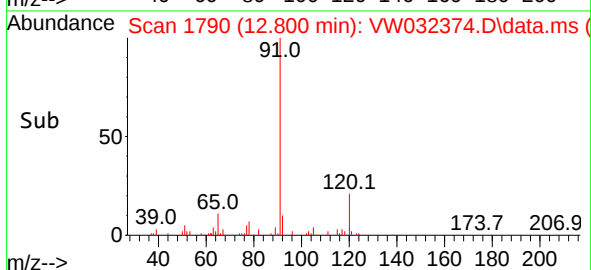
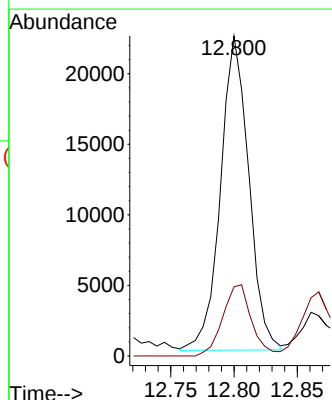
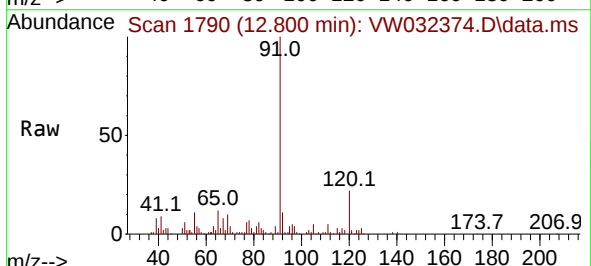
Acq: 07 Oct 2025 12:13

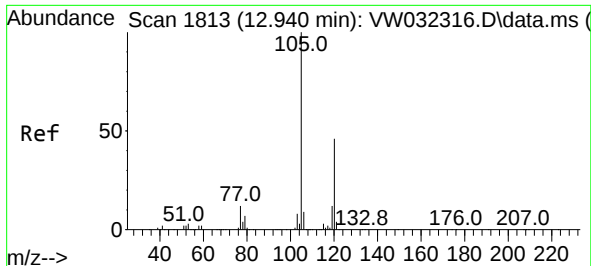
Tgt Ion: 91 Resp: 34560

Ion Ratio Lower Upper

91 100

120 23.2 11.8 35.4

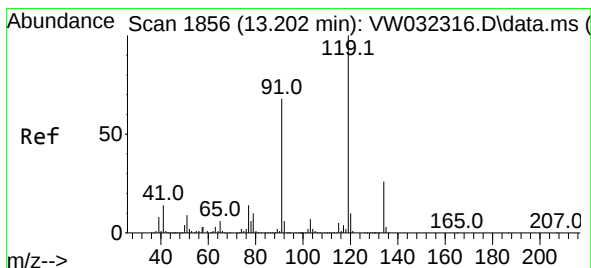
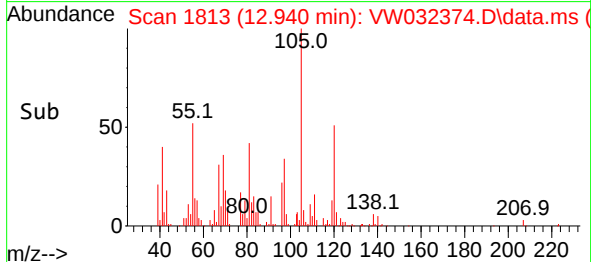
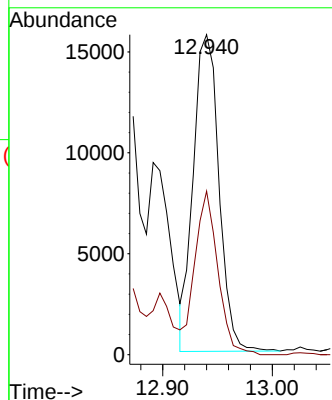
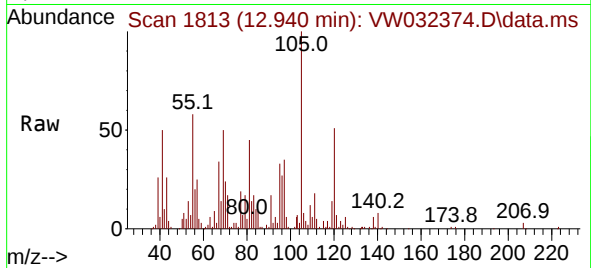




#80
1,3,5-Trimethylbenzene
Concen: 2.550 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

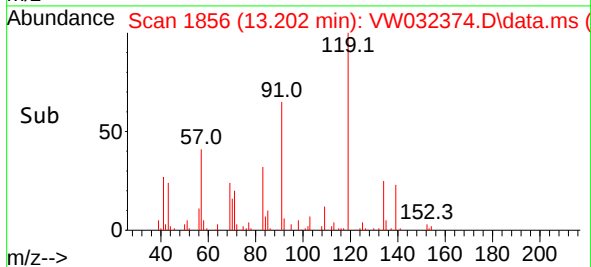
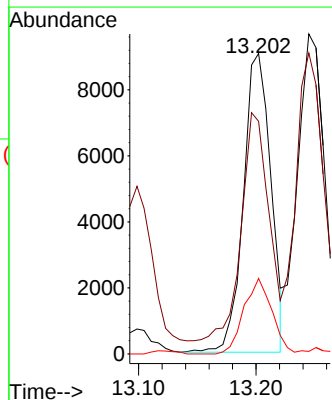
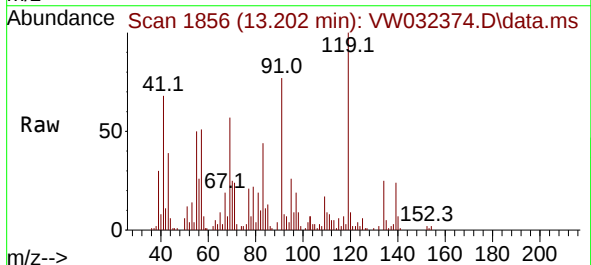
Instrument :
MSVOA_W
ClientSampleId :
R7

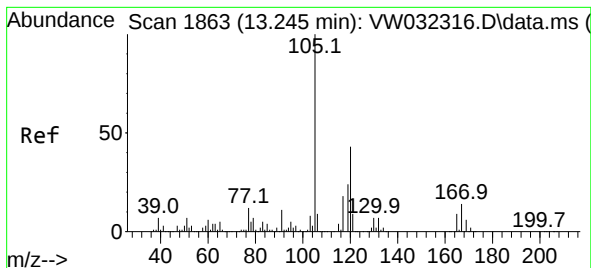
Tgt Ion:105 Resp: 25537
Ion Ratio Lower Upper
105 100
120 46.4 24.8 74.4



#83
tert-Butylbenzene
Concen: 1.789 ug/l
RT: 13.202 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VW032374.D
Acq: 07 Oct 2025 12:13

Tgt Ion:119 Resp: 14701
Ion Ratio Lower Upper
119 100
91 76.2 33.8 101.3
134 25.8 12.5 37.5





#84

1,2,4-Trimethylbenzene

Concen: 12.461 ug/l

RT: 13.245 min Scan# 1863

Delta R.T. -0.000 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Instrument :

MSVOA_W

ClientSampleId :

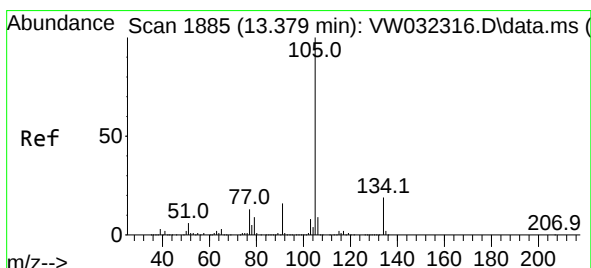
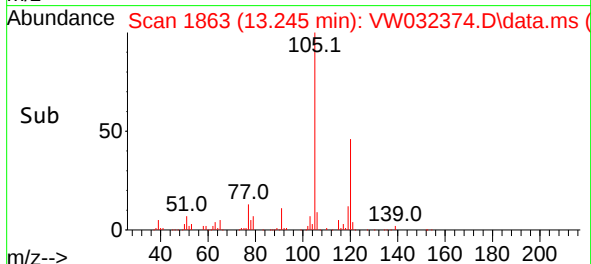
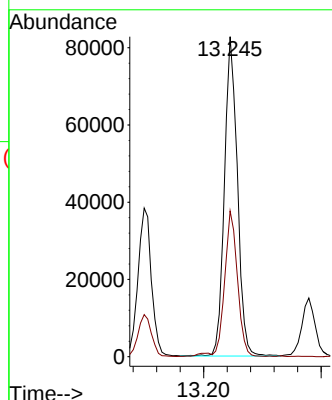
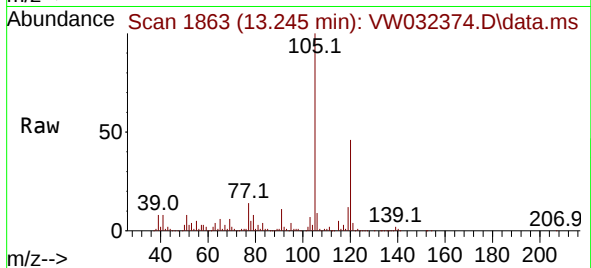
R7

Tgt Ion:105 Resp: 126883

Ion Ratio Lower Upper

105 100

120 45.5 22.1 66.3



#85

sec-Butylbenzene

Concen: 1.877 ug/l

RT: 13.379 min Scan# 1885

Delta R.T. -0.000 min

Lab File: VW032374.D

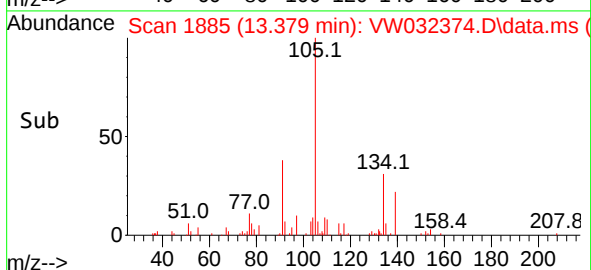
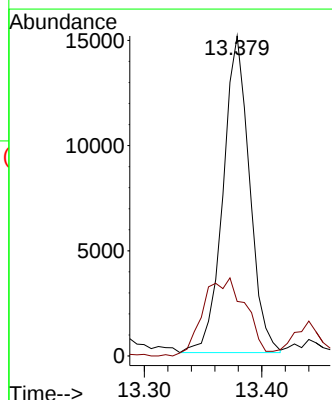
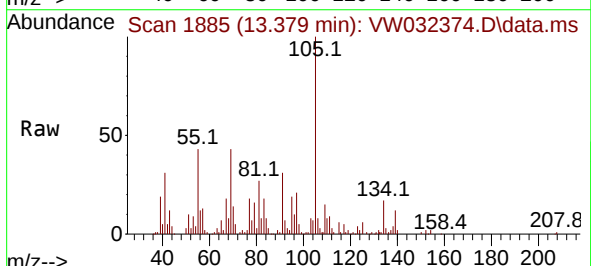
Acq: 07 Oct 2025 12:13

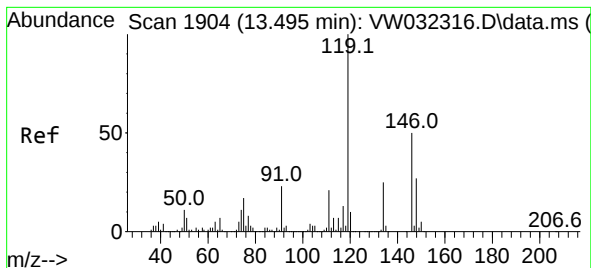
Tgt Ion:105 Resp: 23573

Ion Ratio Lower Upper

105 100

134 39.7 10.1 30.1#





#86

p-Isopropyltoluene

Concen: 1.650 ug/l

RT: 13.489 min Scan# 1904

Delta R.T. -0.006 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Instrument :

MSVOA_W

ClientSampleId :

R7

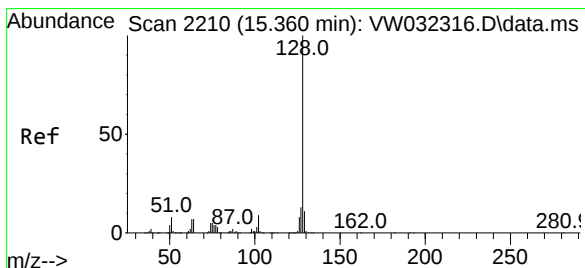
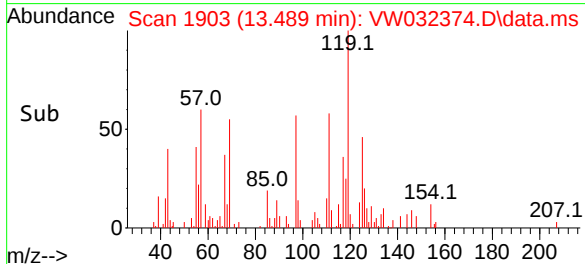
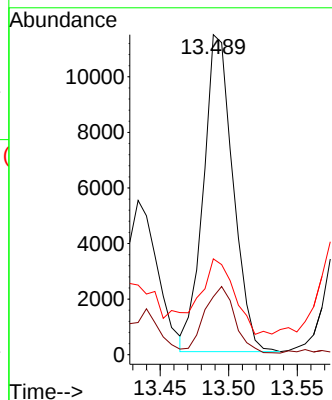
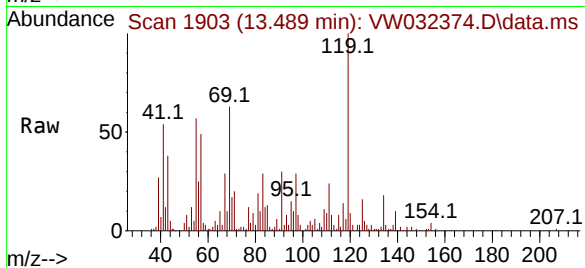
Tgt Ion:119 Resp: 17196

Ion Ratio Lower Upper

119 100

134 21.5 12.6 37.6

91 26.9 12.4 37.0



#95

Naphthalene

Concen: 302.928 ug/l

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW032374.D

Acq: 07 Oct 2025 12:13

Tgt Ion:128 Resp: 2229163

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

129 11.6 8.4 12.6

