

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112025\
 Data File : VX048634.D
 Acq On : 20 Nov 2025 13:48
 Operator : JC/MD
 Sample : Q3689-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 251119071-01 VOA

Quant Time: Nov 21 00:32:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

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

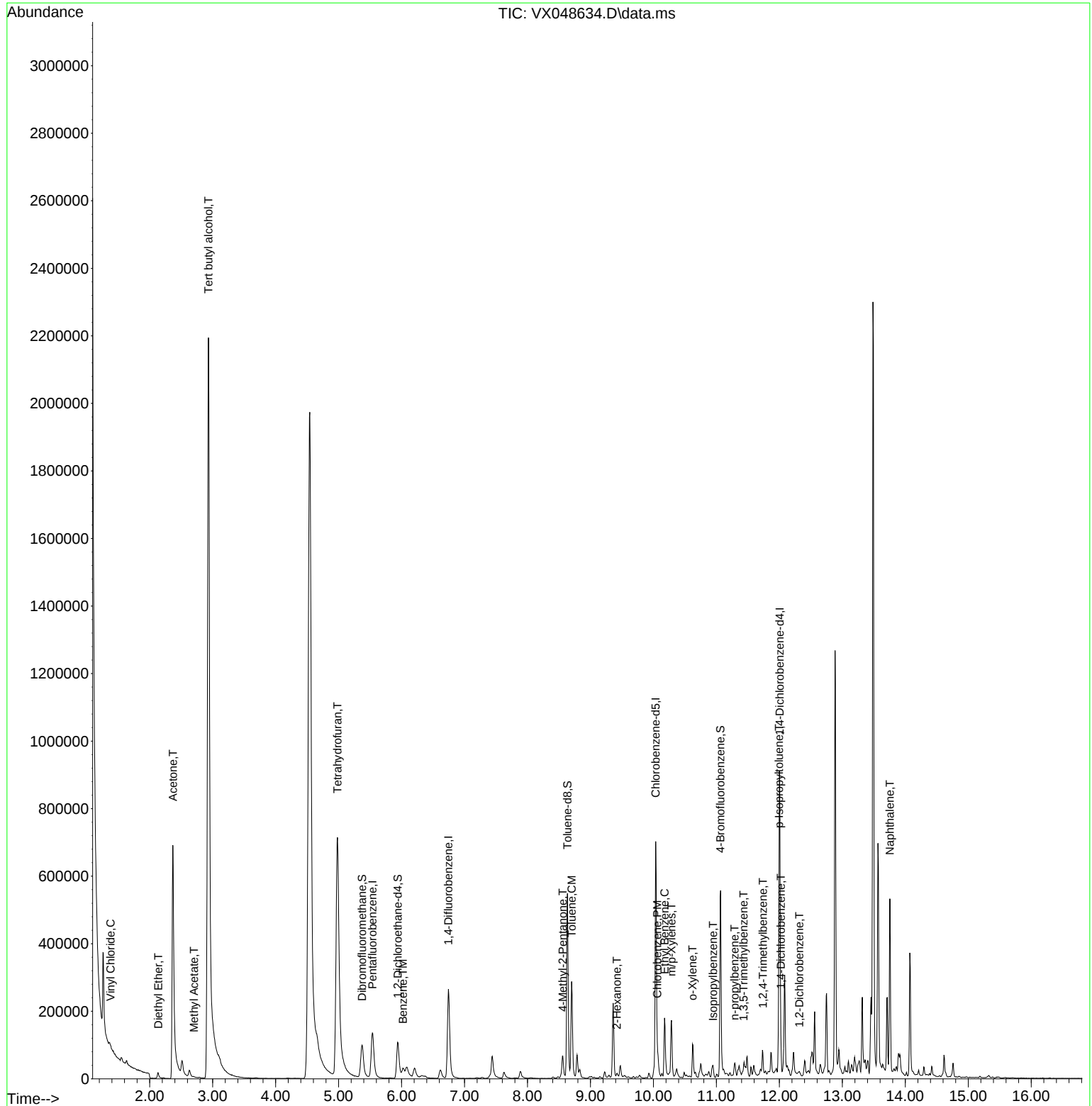
Internal Standards						
1) Pentafluorobenzene	5.538	168	145970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	299621	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	324019	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	179606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	119166	58.588	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	117.180%#
35) Dibromofluoromethane	5.373	113	97166	42.847	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	85.700%
50) Toluene-d8	8.635	98	349735	49.449	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.900%
62) 4-Bromofluorobenzene	11.061	95	158629	60.184	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	120.360%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.380	62	849	0.478	ug/l	94
8) Diethyl Ether	2.136	74	6716	5.954	ug/l	91
11) Tert butyl alcohol	2.934	59	3537047	9177.250	ug/l	98
16) Acetone	2.367	43	927719	963.573	ug/l	99
18) Methyl Acetate	2.703	43	6764m	2.556	ug/l	
29) Tetrahydrofuran	4.983	42	801784	789.292	ug/l	97
40) Benzene	6.019	78	34386	3.653	ug/l	99
51) 4-Methyl-2-Pentanone	8.561	43	48181	14.087	ug/l	94
52) Toluene	8.702	92	105006	21.189	ug/l	99
59) 2-Hexanone	9.421	43	8601	3.381	ug/l	77
65) Chlorobenzene	10.061	112	12374	1.609	ug/l	92
67) Ethyl Benzene	10.177	91	107359	8.313	ug/l	98
68) m/p-Xylenes	10.287	106	41276	8.486	ug/l	98
69) o-Xylene	10.622	106	22322	4.691	ug/l	92
73) Isopropylbenzene	10.945	105	14863	1.140	ug/l	98
78) n-propylbenzene	11.287	91	6279	0.410	ug/l	96
80) 1,3,5-Trimethylbenzene	11.433	105	8034	0.756	ug/l	98
84) 1,2,4-Trimethylbenzene	11.738	105	32141	2.997	ug/l	98
86) p-Isopropyltoluene	11.994	119	76643	6.710	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	17744	2.723	ug/l	89
91) 1,2-Dichlorobenzene	12.317	146	1299	0.214	ug/l #	74
95) Naphthalene	13.756	128	298000	23.028	ug/l	100

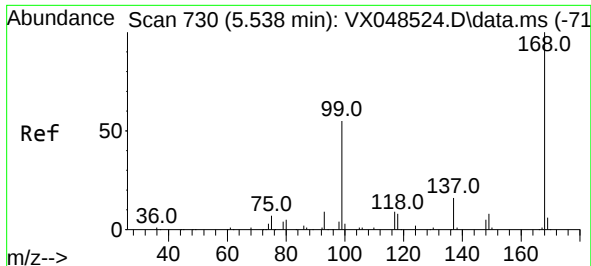
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

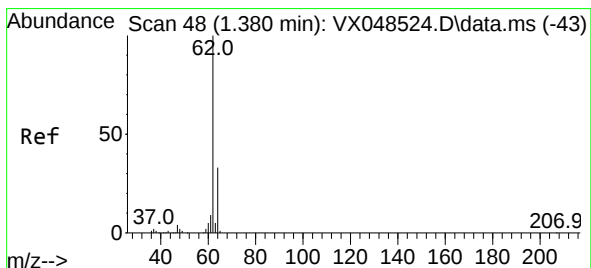
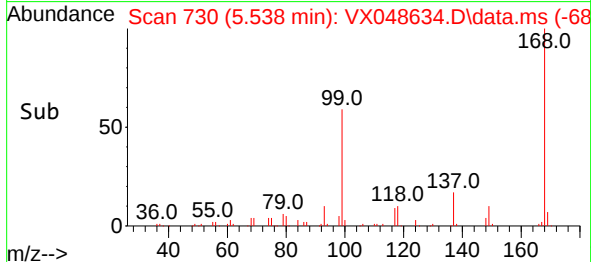
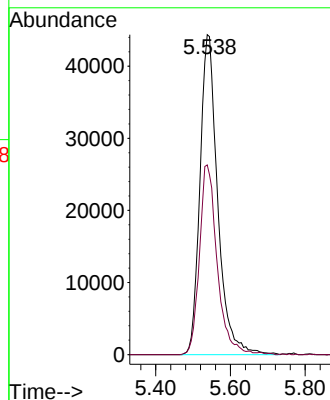
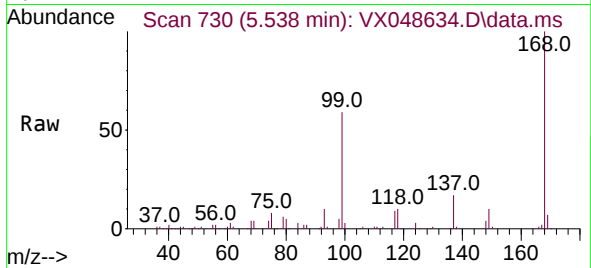




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

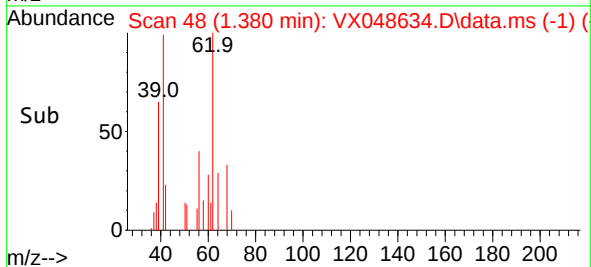
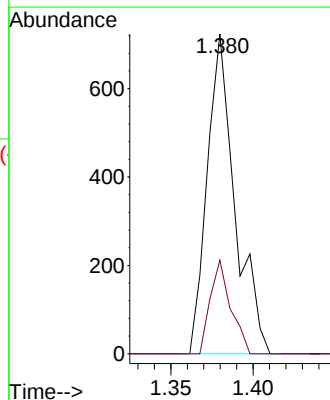
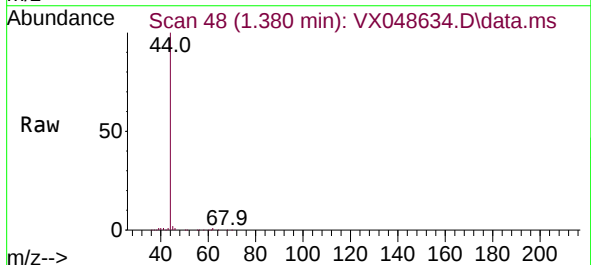
Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA

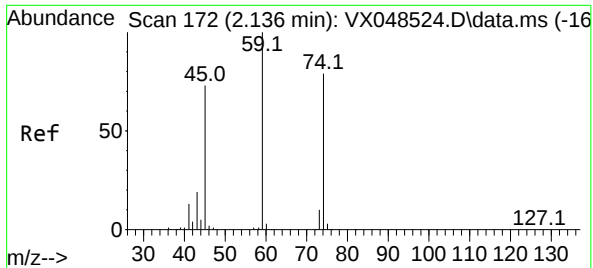
Tgt Ion:168 Resp: 145970
Ion Ratio Lower Upper
168 100
99 59.3 45.2 67.8



#4
Vinyl Chloride
Concen: 0.478 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion: 62 Resp: 849
Ion Ratio Lower Upper
62 100
64 29.3 26.2 39.4

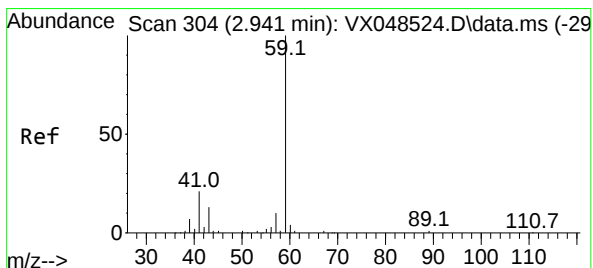
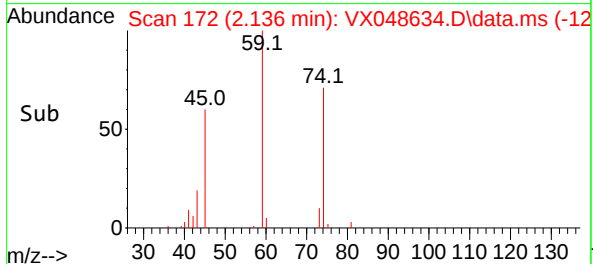
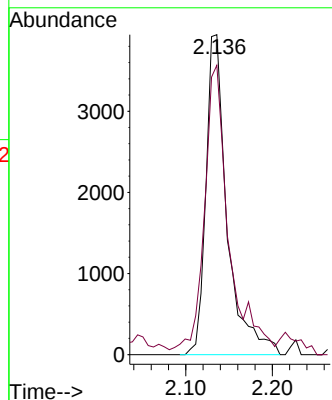
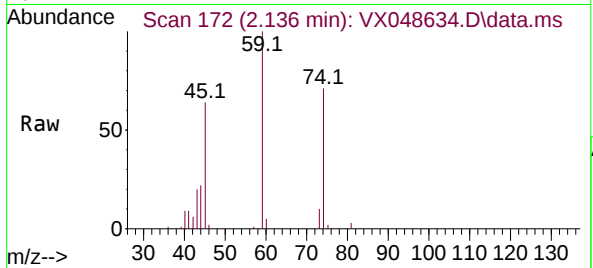




#8
Diethyl Ether
Concen: 5.954 ug/l
RT: 2.136 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

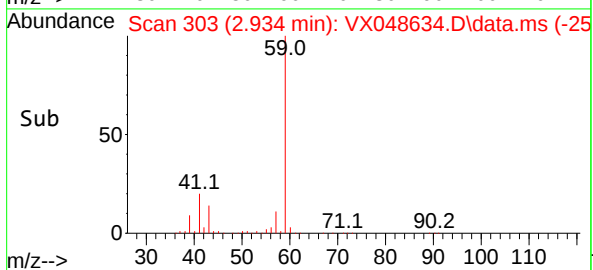
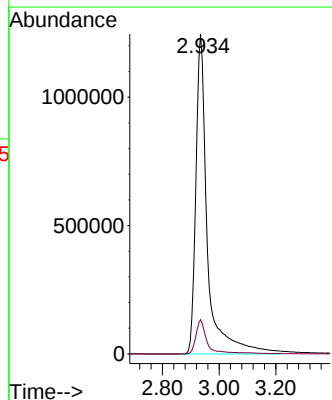
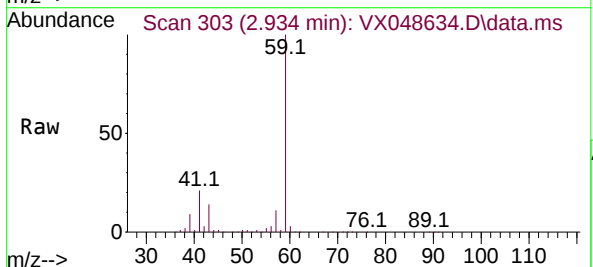
Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA

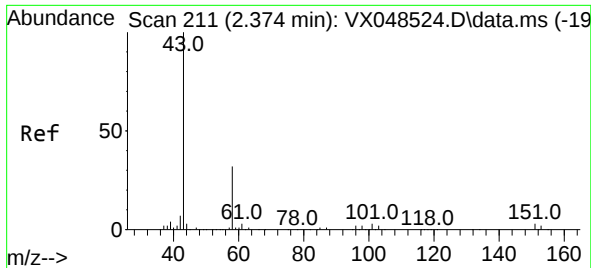
Tgt Ion: 74 Resp: 6716
Ion Ratio Lower Upper
74 100
45 99.9 45.9 137.6



#11
Tert butyl alcohol
Concen: 9177.250 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion: 59 Resp: 3537047
Ion Ratio Lower Upper
59 100
57 10.1 8.6 13.0

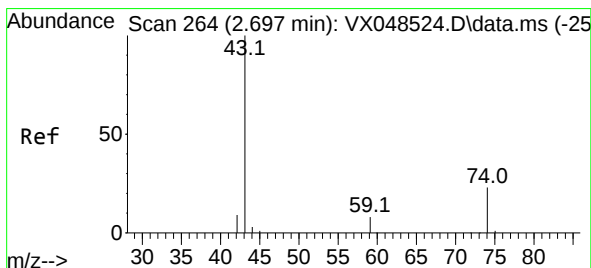
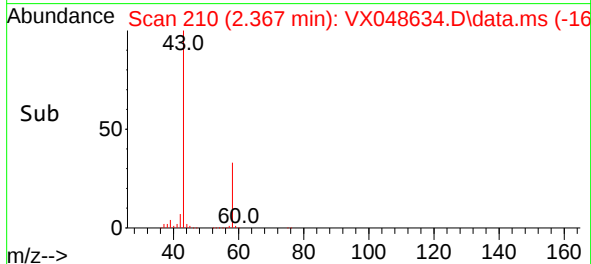
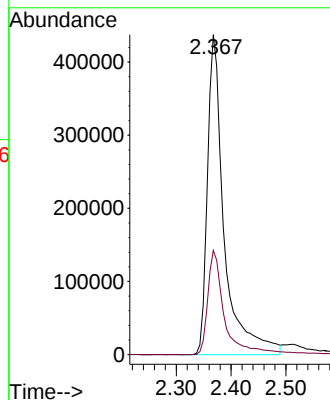
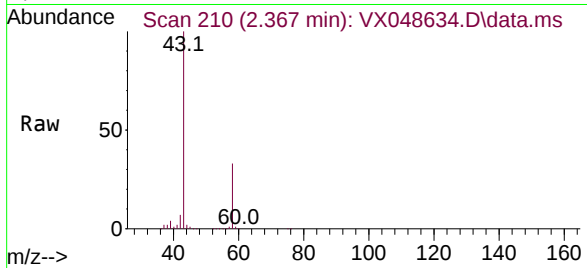




#16
Acetone
Concen: 963.573 ug/l
RT: 2.367 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

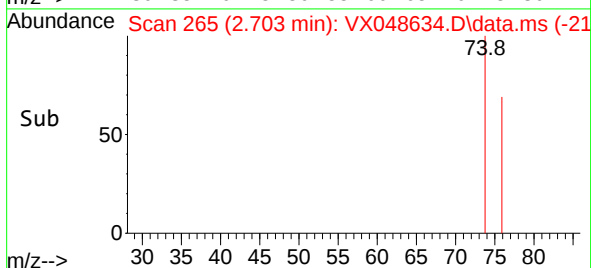
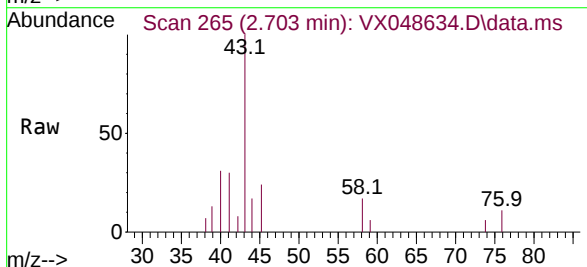
Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA

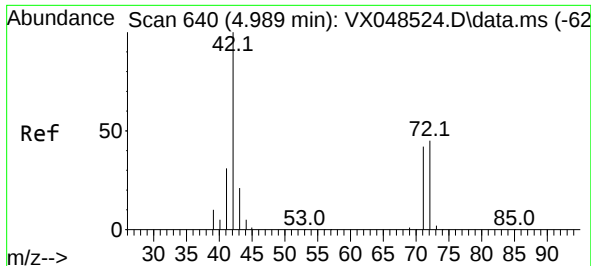
Tgt Ion: 43 Resp: 927719
Ion Ratio Lower Upper
43 100
58 32.6 25.8 38.6



#18
Methyl Acetate
Concen: 2.556 ug/l m
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion: 43 Resp: 6764
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#





#29

Tetrahydrofuran

Concen: 789.292 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048634.D

Acq: 20 Nov 2025 13:48

Instrument :

MSVOA_X

ClientSampleId :

251119071-01 VOA

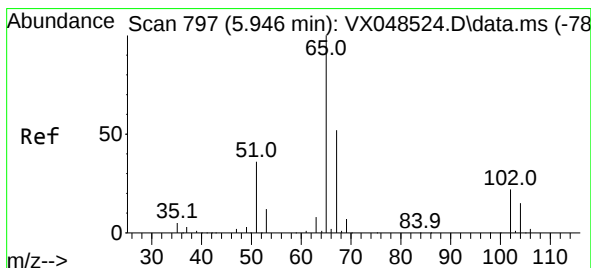
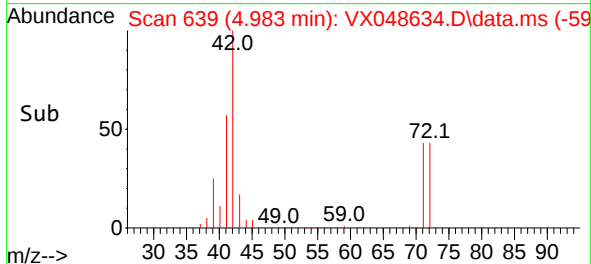
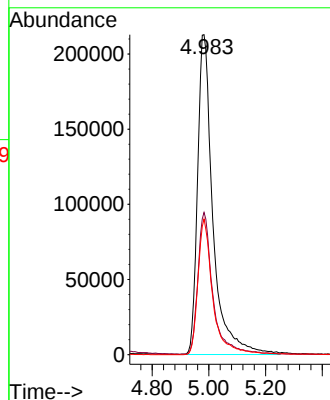
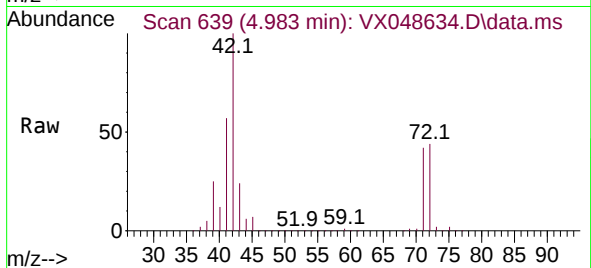
Tgt Ion: 42 Resp: 801784

Ion Ratio Lower Upper

42 100

72 43.0 36.3 54.5

71 41.1 34.1 51.1



#33

1,2-Dichloroethane-d4

Concen: 58.588 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048634.D

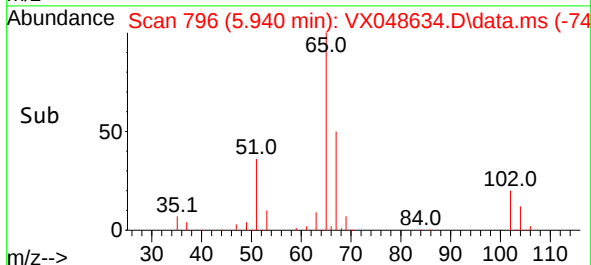
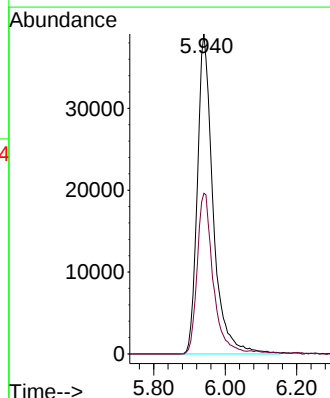
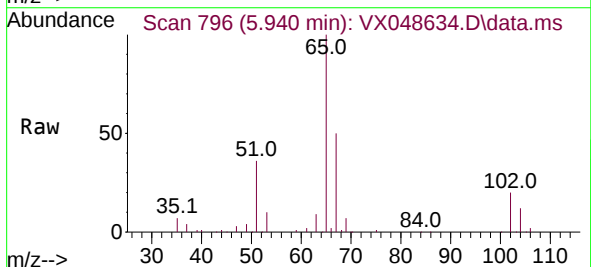
Acq: 20 Nov 2025 13:48

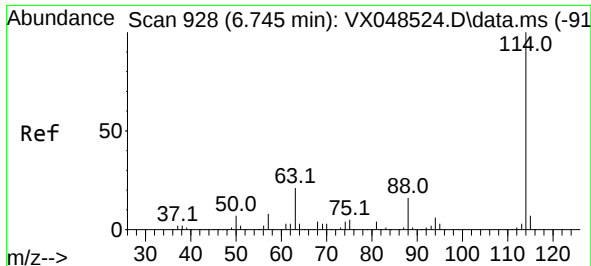
Tgt Ion: 65 Resp: 119166

Ion Ratio Lower Upper

65 100

67 50.9 0.0 106.2

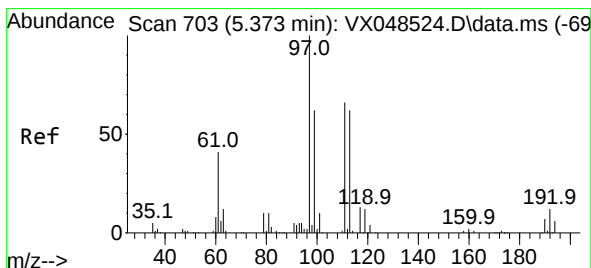
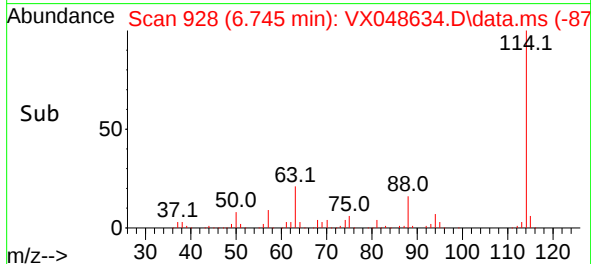
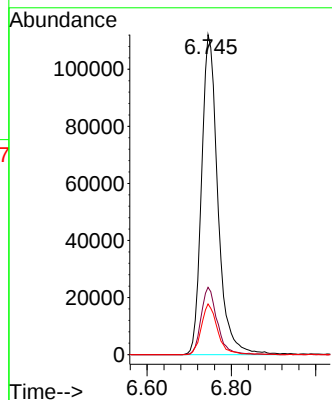
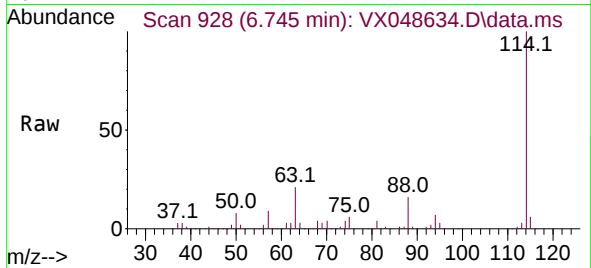




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

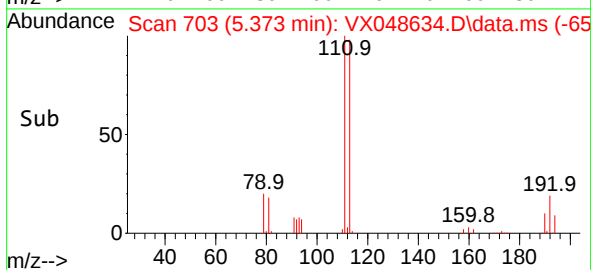
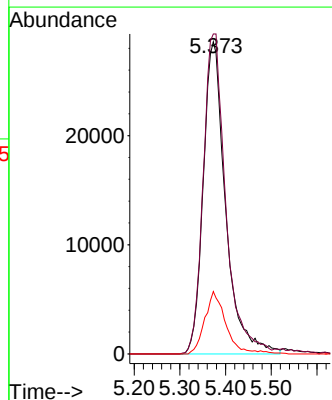
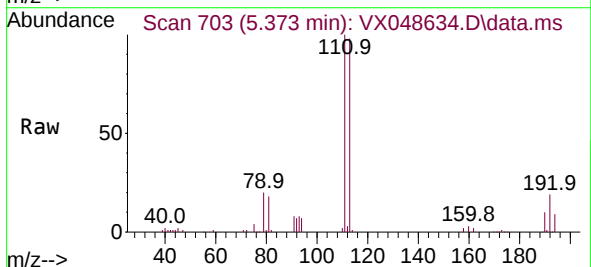
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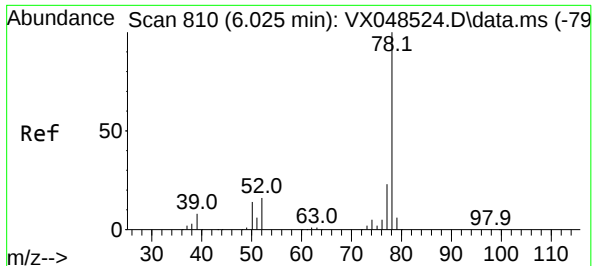
Tgt Ion:114	Resp:	299621
Ion	Ratio	Lower Upper
114	100	
63	21.0	0.0 41.2
88	15.8	0.0 32.2



#35
Dibromofluoromethane
Concen: 42.847 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion:113	Resp:	97166
Ion	Ratio	Lower Upper
113	100	
111	103.5	81.9 122.9
192	18.5	15.8 23.6

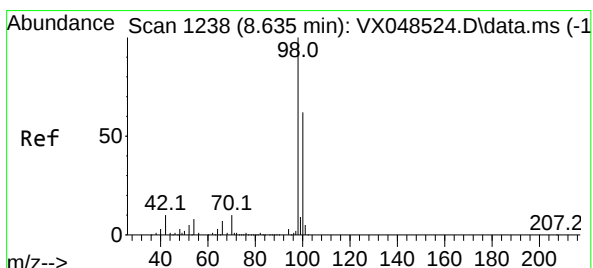
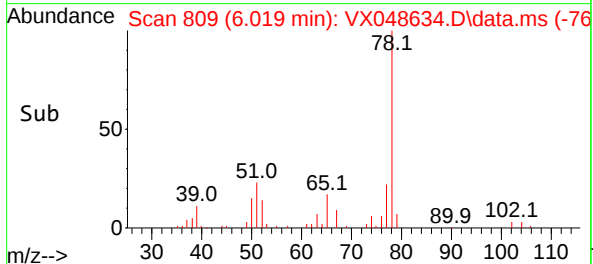
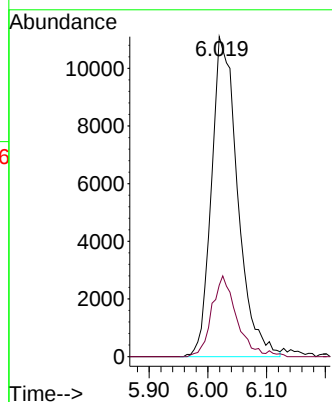
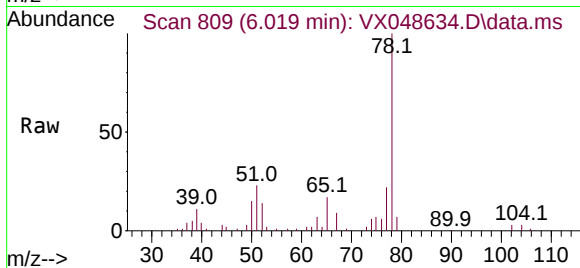




#40
Benzene
Concen: 3.653 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

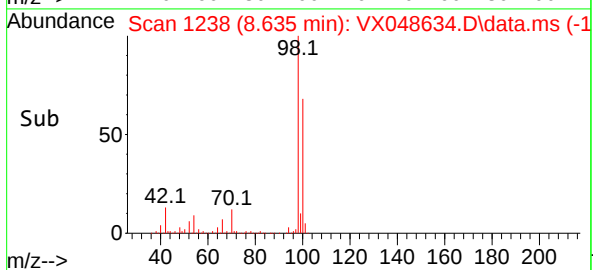
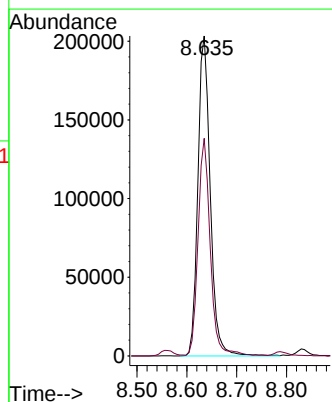
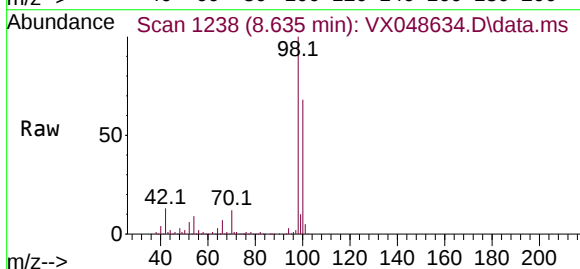
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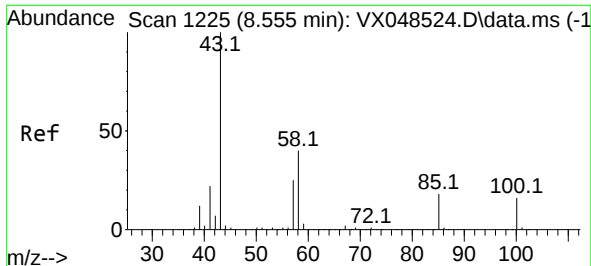
Tgt Ion: 78 Resp: 34386
Ion Ratio Lower Upper
78 100
77 22.3 18.3 27.5



#50
Toluene-d8
Concen: 49.449 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion: 98 Resp: 349735
Ion Ratio Lower Upper
98 100
100 67.3 53.6 80.4

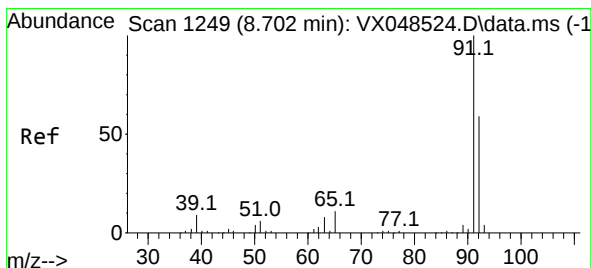
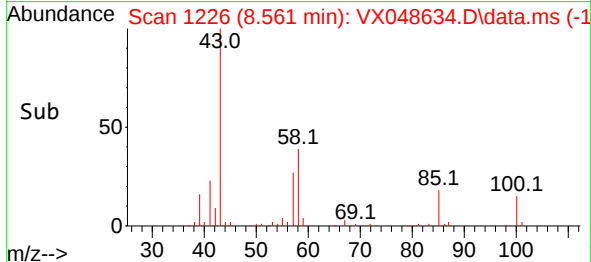
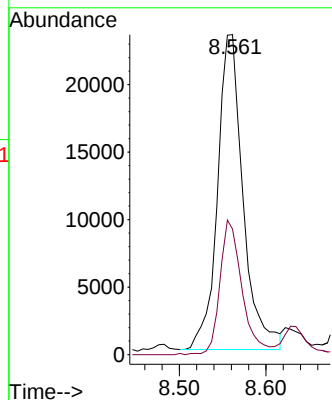
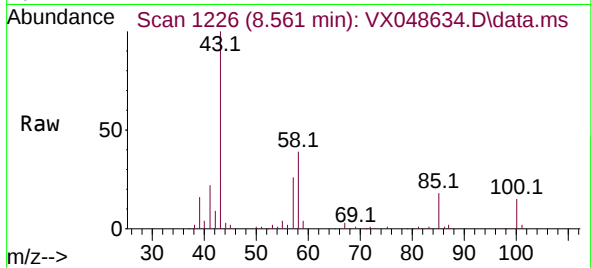




#51
4-Methyl-2-Pentanone
Concen: 14.087 ug/l
RT: 8.561 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

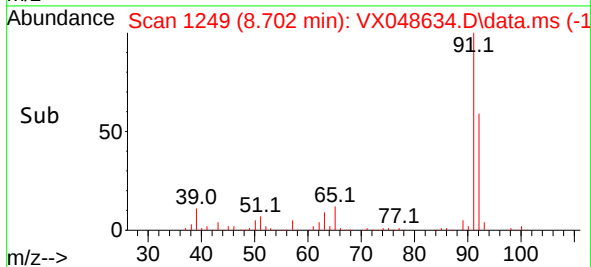
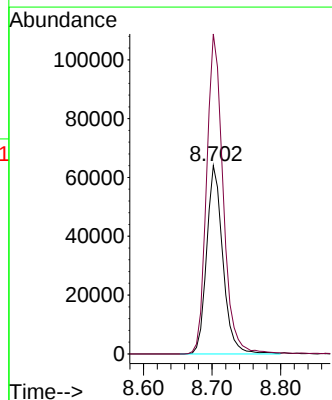
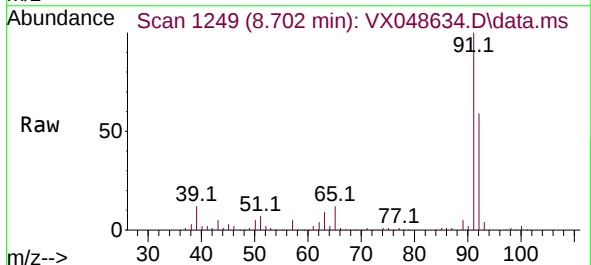
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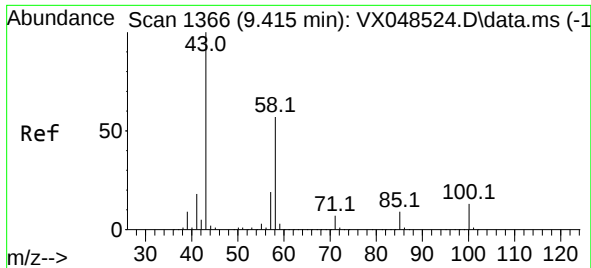
Tgt Ion: 43 Resp: 48181
Ion Ratio Lower Upper
43 100
58 36.8 32.3 48.5



#52
Toluene
Concen: 21.189 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion: 92 Resp: 105006
Ion Ratio Lower Upper
92 100
91 173.3 137.0 205.6

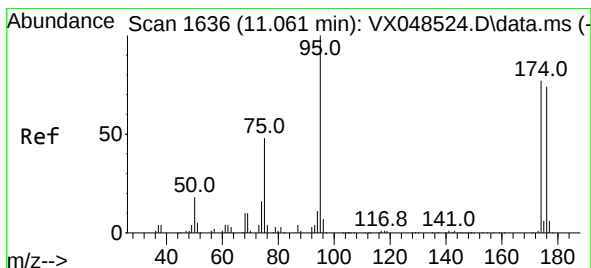
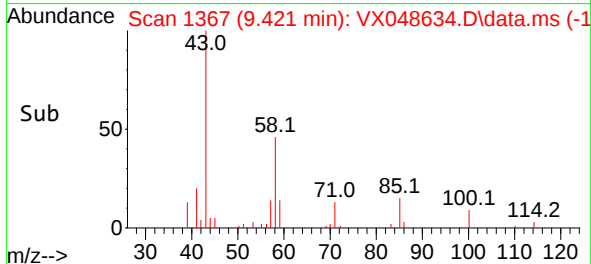
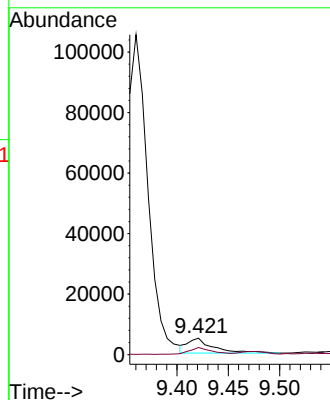
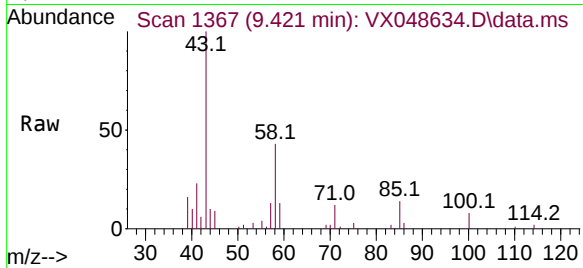




#59
2-Hexanone
Concen: 3.381 ug/l
RT: 9.421 min Scan# 1366
Delta R.T. 0.006 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

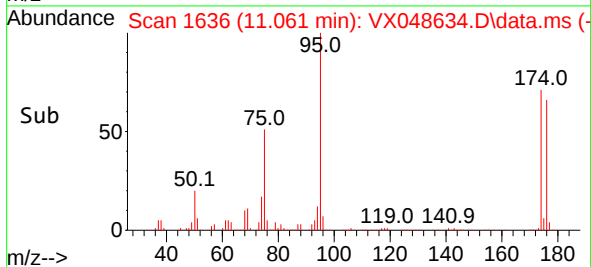
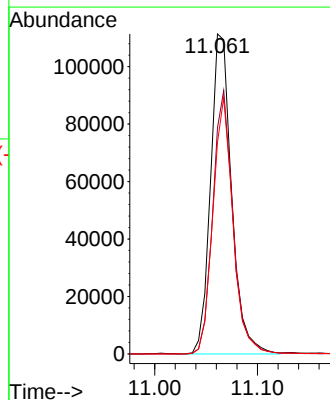
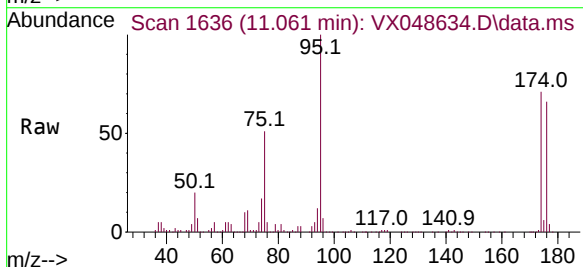
Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA

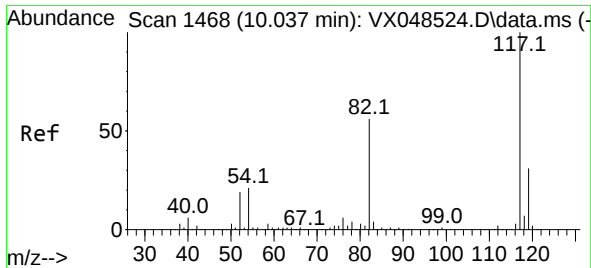
Tgt Ion: 43 Resp: 8601
Ion Ratio Lower Upper
43 100
58 39.5 28.1 84.2



#62
4-Bromofluorobenzene
Concen: 60.184 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion: 95 Resp: 158629
Ion Ratio Lower Upper
95 100
174 79.3 0.0 161.8
176 76.7 0.0 153.6

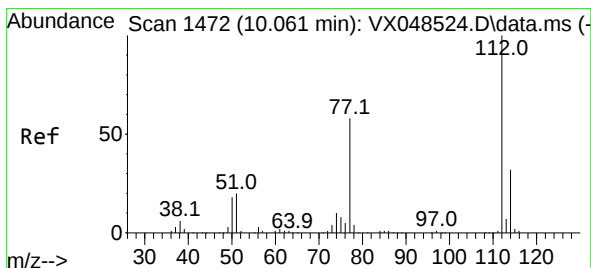
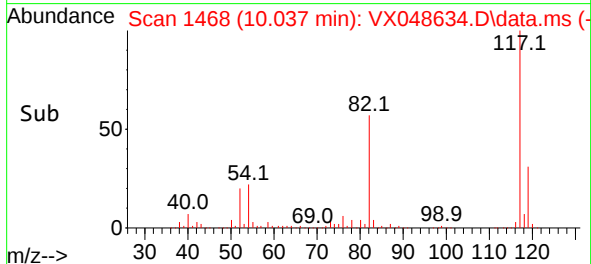
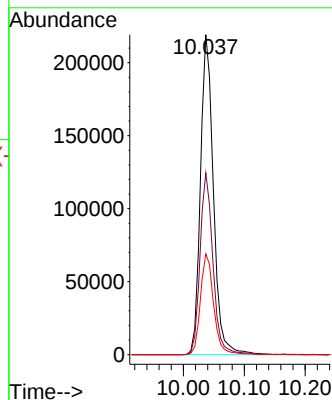
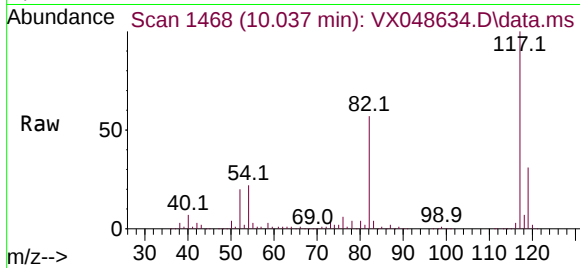




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

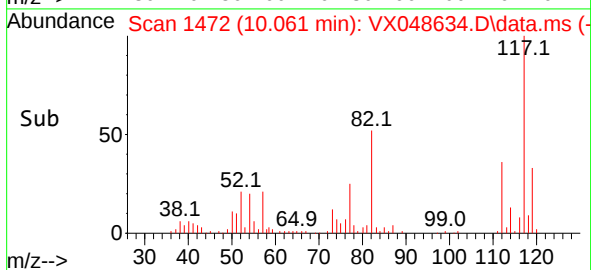
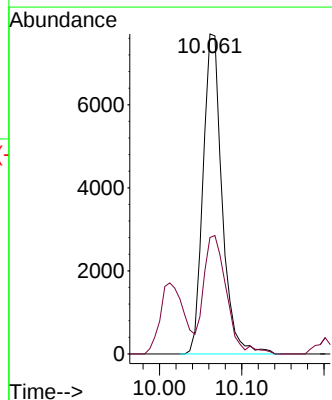
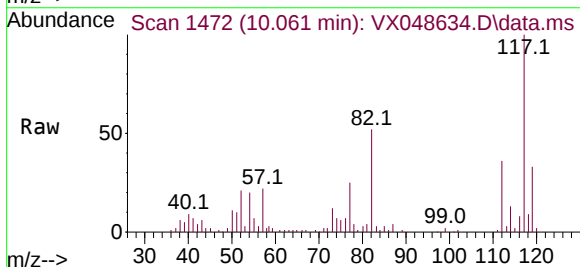
Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA

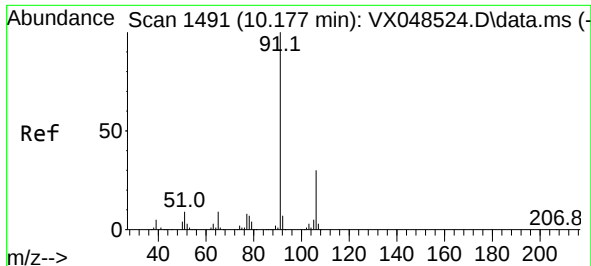
Tgt Ion:117 Resp: 324019
Ion Ratio Lower Upper
117 100
82 56.8 44.4 66.6
119 31.5 25.1 37.7



#65
Chlorobenzene
Concen: 1.609 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion:112 Resp: 12374
Ion Ratio Lower Upper
112 100
114 36.4 25.5 38.3

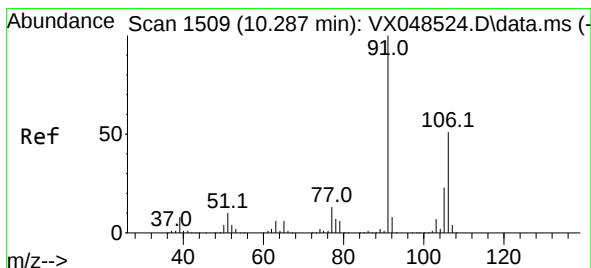
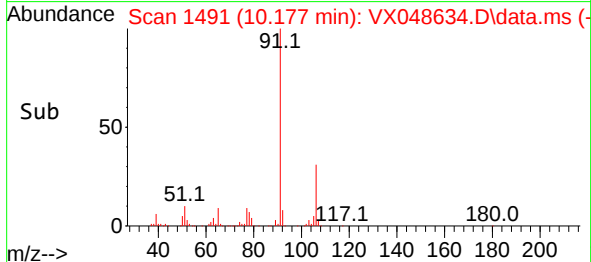
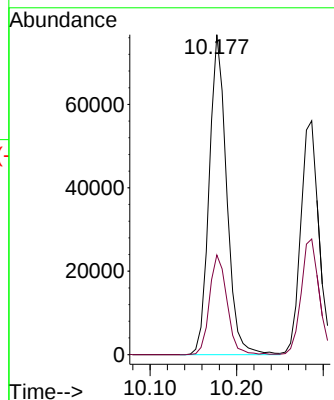
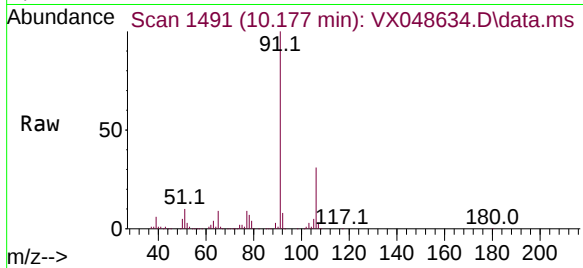




#67
Ethyl Benzene
Concen: 8.313 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

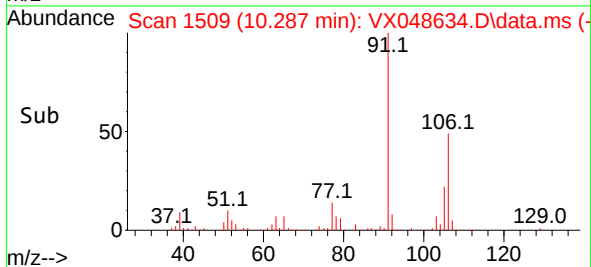
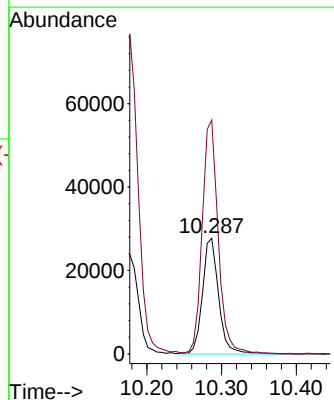
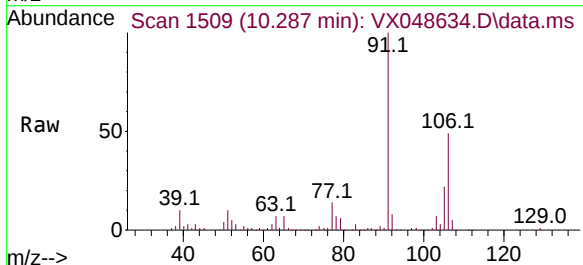
Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA

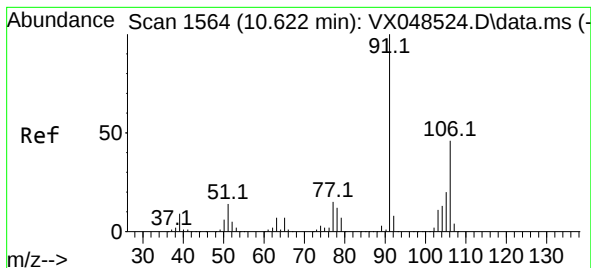
Tgt Ion: 91 Resp: 107359
Ion Ratio Lower Upper
91 100
106 31.1 24.1 36.1



#68
m/p-Xylenes
Concen: 8.486 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion:106 Resp: 41276
Ion Ratio Lower Upper
106 100
91 202.5 159.6 239.4





#69

o-Xylene

Concen: 4.691 ug/l

RT: 10.622 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048634.D

Acq: 20 Nov 2025 13:48

Instrument :

MSVOA_X

ClientSampleId :

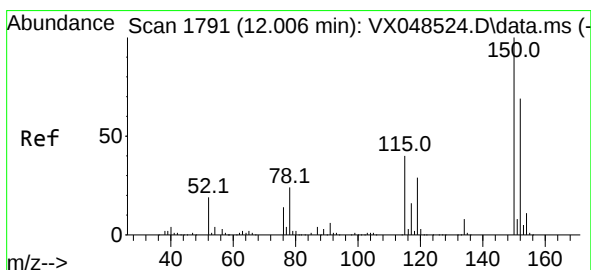
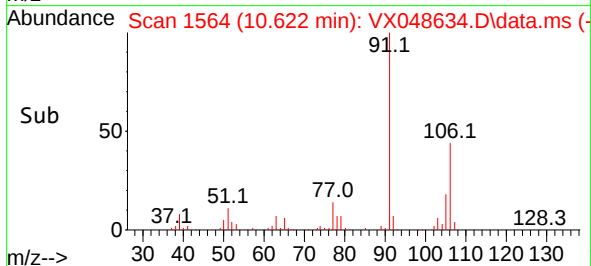
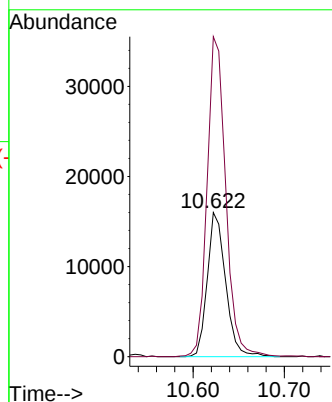
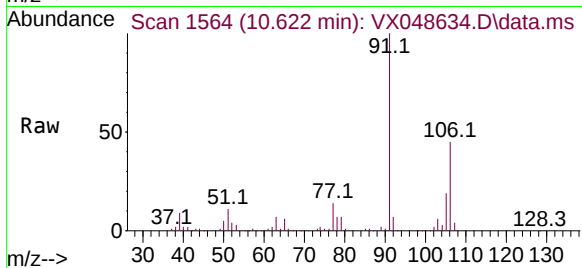
251119071-01 VOA

Tgt Ion:106 Resp: 22322

Ion Ratio Lower Upper

106 100

91 225.5 106.4 319.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX048634.D

Acq: 20 Nov 2025 13:48

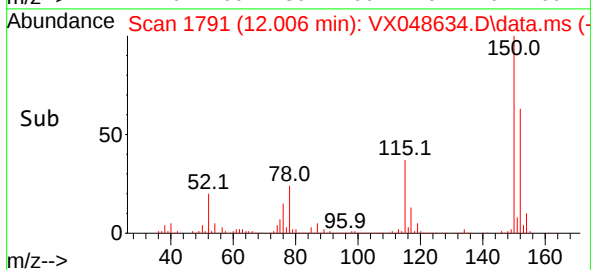
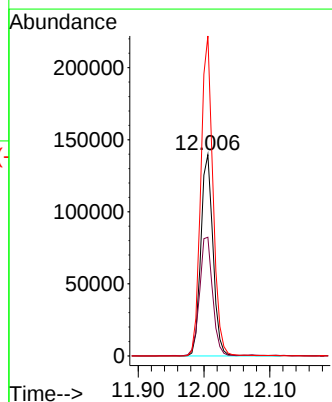
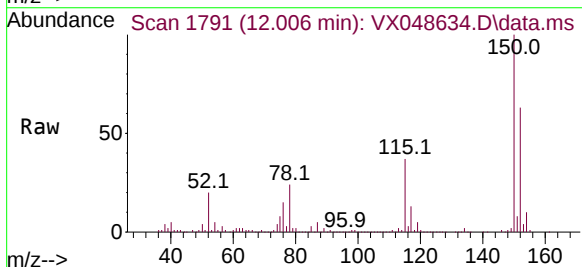
Tgt Ion:152 Resp: 179606

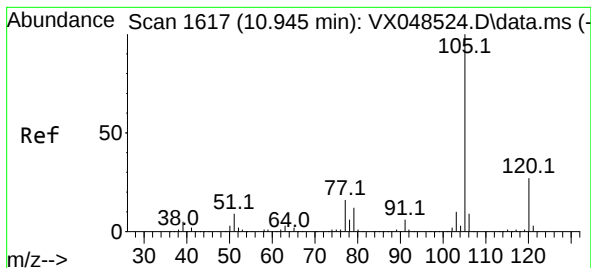
Ion Ratio Lower Upper

152 100

115 62.7 39.2 117.6

150 158.7 0.0 347.0





#73

Isopropylbenzene

Concen: 1.140 ug/l

RT: 10.945 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VX048634.D

Acq: 20 Nov 2025 13:48

Instrument :

MSVOA_X

ClientSampleId :

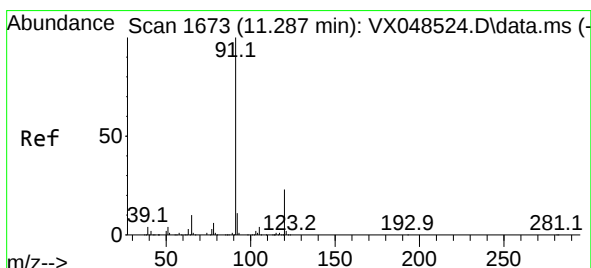
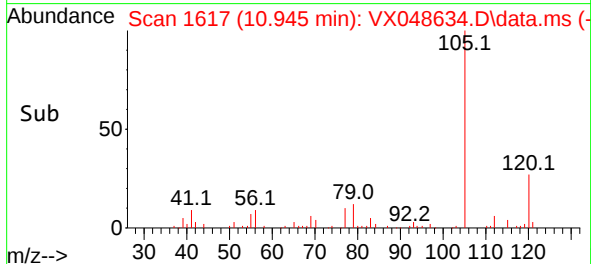
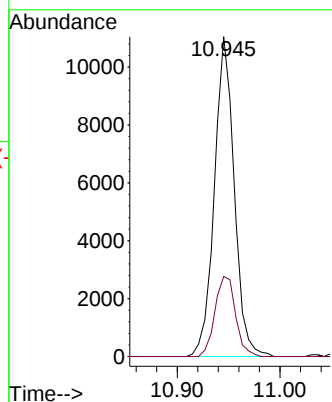
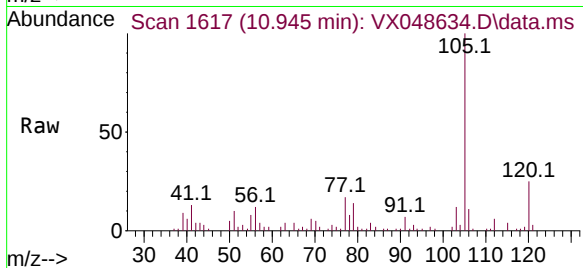
251119071-01 VOA

Tgt Ion:105 Resp: 14863

Ion Ratio Lower Upper

105 100

120 26.0 13.6 40.7



#78

n-propylbenzene

Concen: 0.410 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX048634.D

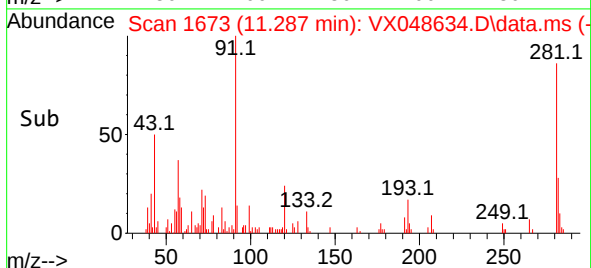
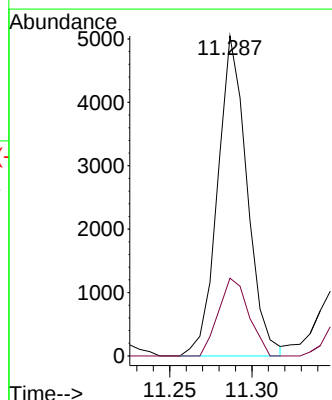
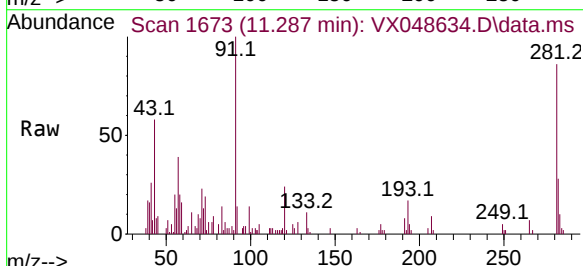
Acq: 20 Nov 2025 13:48

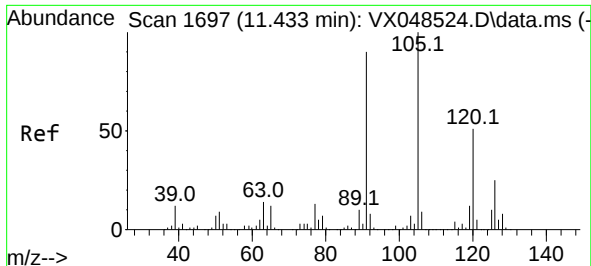
Tgt Ion: 91 Resp: 6279

Ion Ratio Lower Upper

91 100

120 24.9 11.6 34.8

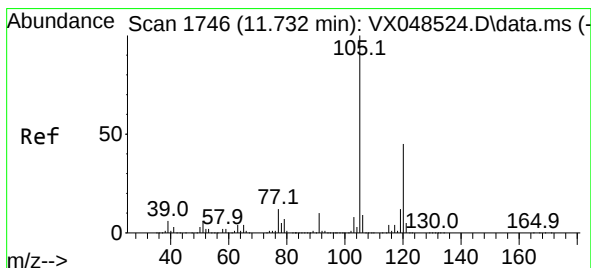
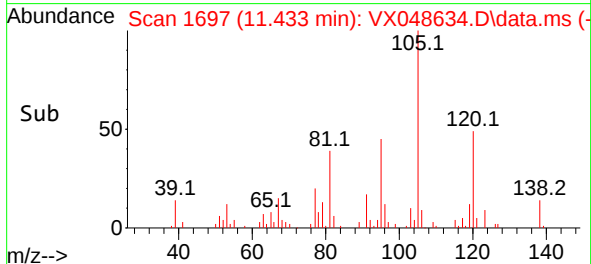
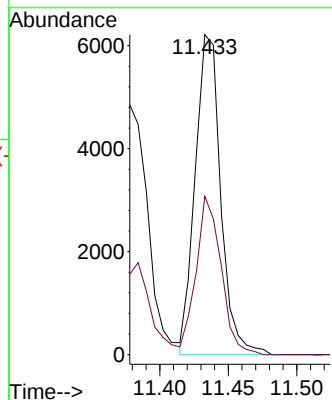
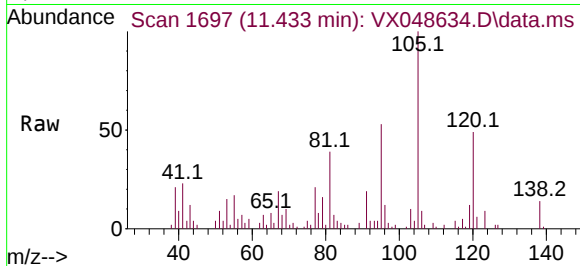




#80
1,3,5-Trimethylbenzene
Concen: 0.756 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

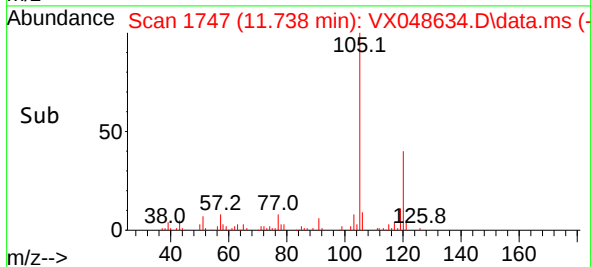
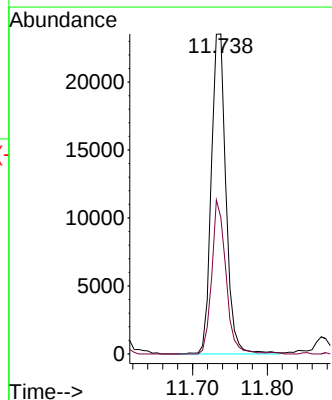
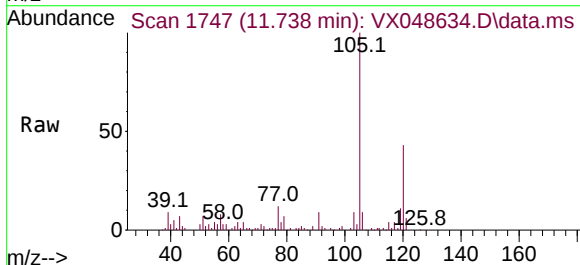
Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA

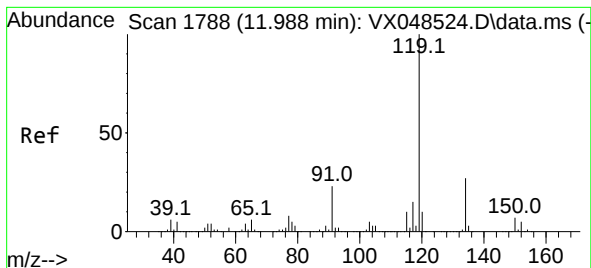
Tgt Ion:105 Resp: 8034
Ion Ratio Lower Upper
105 100
120 48.5 25.1 75.2



#84
1,2,4-Trimethylbenzene
Concen: 2.997 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion:105 Resp: 32141
Ion Ratio Lower Upper
105 100
120 46.3 22.4 67.0





#86

p-Isopropyltoluene

Concen: 6.710 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. 0.006 min

Lab File: VX048634.D

Acq: 20 Nov 2025 13:48

Instrument :

MSVOA_X

ClientSampleId :

251119071-01 VOA

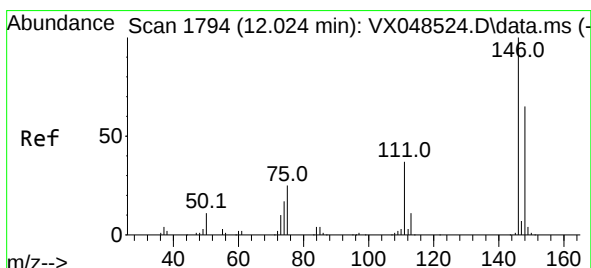
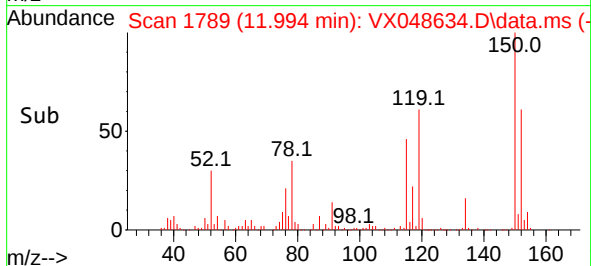
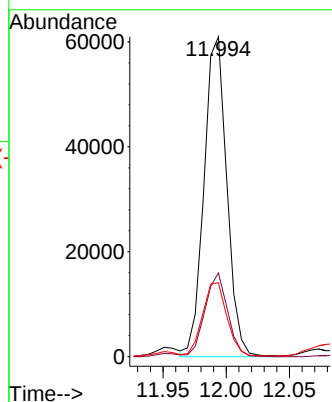
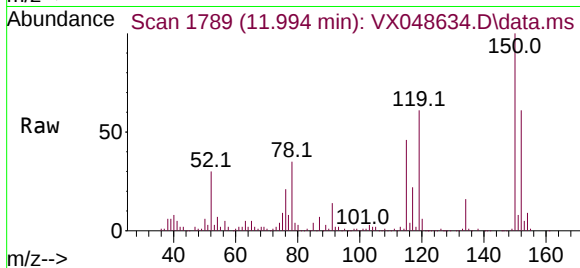
Tgt Ion:119 Resp: 76643

Ion Ratio Lower Upper

119 100

134 25.8 13.2 39.5

91 24.5 11.3 33.9



#88

1,4-Dichlorobenzene

Concen: 2.723 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048634.D

Acq: 20 Nov 2025 13:48

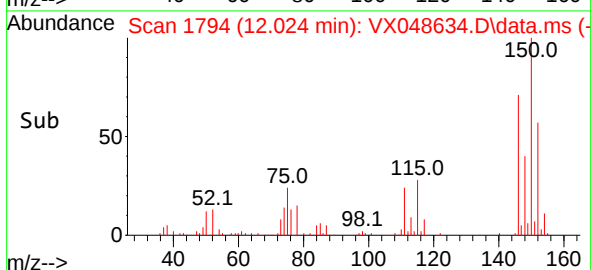
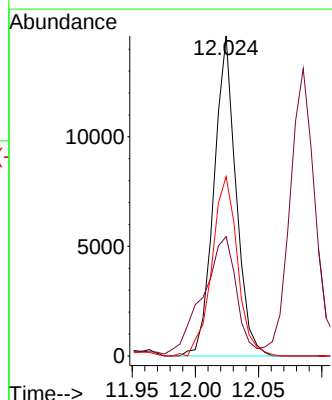
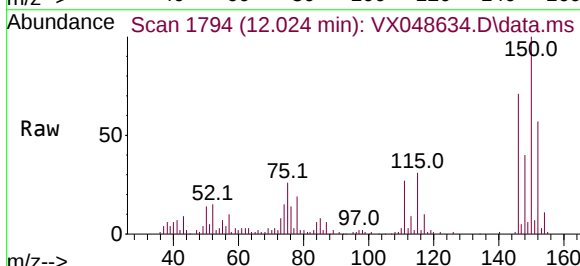
Tgt Ion:146 Resp: 17744

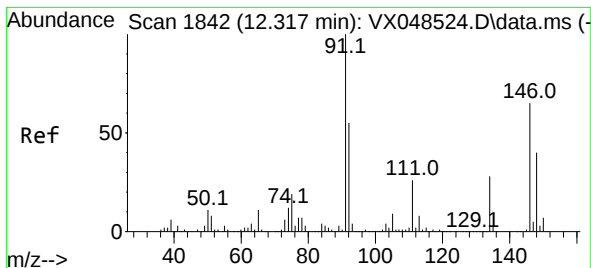
Ion Ratio Lower Upper

146 100

111 54.8 19.2 57.6

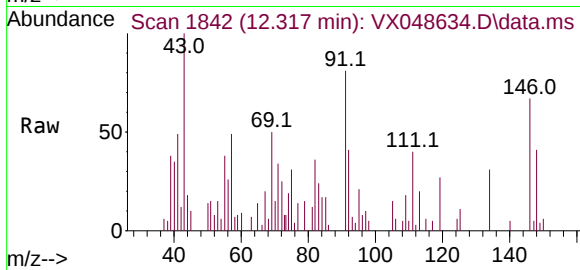
148 64.8 31.9 95.9



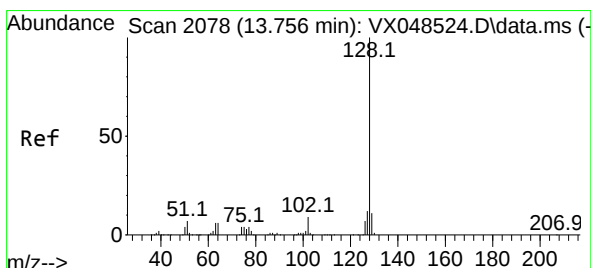
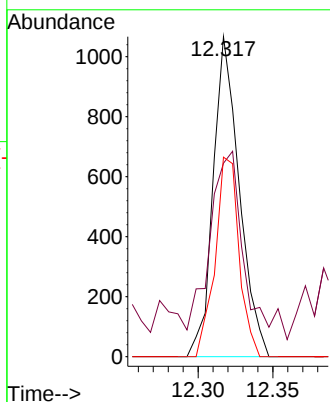
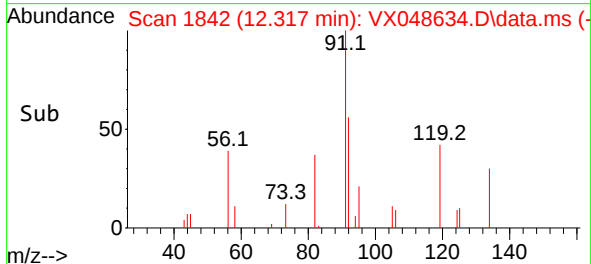


#91
1,2-Dichlorobenzene
Concen: 0.214 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Instrument :
MSVOA_X
ClientSampleId :
251119071-01 VOA



Tgt Ion:146 Resp: 1299
Ion Ratio Lower Upper
146 100
111 76.1 20.6 61.9#
148 57.0 31.4 94.2



#95
Naphthalene
Concen: 23.028 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048634.D
Acq: 20 Nov 2025 13:48

Tgt Ion:128 Resp: 298000
Ion Ratio Lower Upper
128 100
127 12.9 10.1 15.1
129 10.8 8.7 13.1

