

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092325\
 Data File : VX047724.D
 Acq On : 23 Sep 2025 11:36
 Operator : JC/MD
 Sample : Q3097-01DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20250911DL

Quant Time: Sep 24 01:29:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

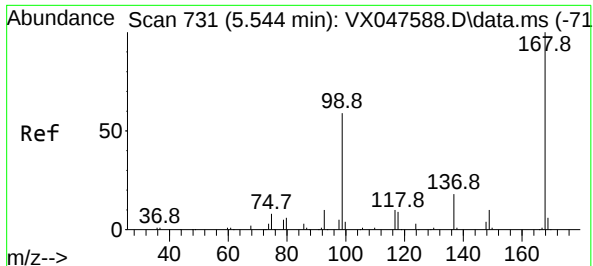
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	133561	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	270653	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	268877	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	132316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	101290	47.644	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	95.280%
35) Dibromofluoromethane	5.373	113	85250	46.966	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.940%
50) Toluene-d8	8.635	98	301245	47.963	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.920%
62) 4-Bromofluorobenzene	11.067	95	126537	53.085	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	106.180%
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.343	101	1316	0.852	ug/l	98
10) Methyl Iodide	2.459	142	917	0.381	ug/l #	87
11) Tert butyl alcohol	2.953	59	150	0.634	ug/l #	72
13) Acrolein	2.239	56	100	0.458	ug/l #	37
15) Acrylonitrile	3.093	53	218	0.249	ug/l #	69
16) Acetone	2.386	43	1879	2.033	ug/l #	1
17) Carbon Disulfide	2.520	76	1834	0.422	ug/l #	92
20) Methylene Chloride	2.794	84	507	0.259	ug/l #	81
25) 2-Butanone	4.556	43	681	0.591	ug/l	96
29) Tetrahydrofuran	5.013	42	1926	2.777	ug/l #	87
36) 1,1-Dichloropropene	5.538	75	11116	4.191	ug/l #	50
38) Carbon Tetrachloride	5.538	117	14199	4.927	ug/l #	18
39) Methylcyclohexane	7.367	83	653	0.217	ug/l	90
41) Methacrylonitrile	5.007	41	624	0.426	ug/l #	30
44) Trichloroethene	7.110	130	114679	58.882	ug/l	97
60) Dibromochloromethane	9.256	129	573	0.260	ug/l #	11
64) Tetrachloroethene	9.263	164	510	0.291	ug/l #	83
76) 1,2,3-Trichloropropane	11.061	75	64457	24.060	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	64457	61.357	ug/l #	8
85) sec-Butylbenzene	11.872	105	2503	0.249	ug/l	99
86) p-Isopropyltoluene	11.994	119	2181	0.256	ug/l #	72
87) 1,3-Dichlorobenzene	11.951	146	924	0.201	ug/l	90
89) n-Butylbenzene	12.317	91	3007	0.382	ug/l	92
93) 1,2,4-Trichlorobenzene	13.573	180	1657	0.582	ug/l	98
94) Hexachlorobutadiene	13.707	225	1397	1.443	ug/l	92
95) Naphthalene	13.762	128	3754	0.433	ug/l	97
96) 1,2,3-Trichlorobenzene	13.945	180	1717	0.648	ug/l	94

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

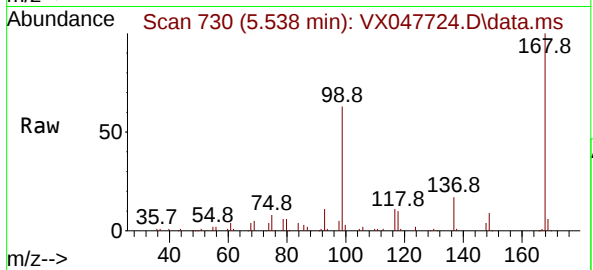
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



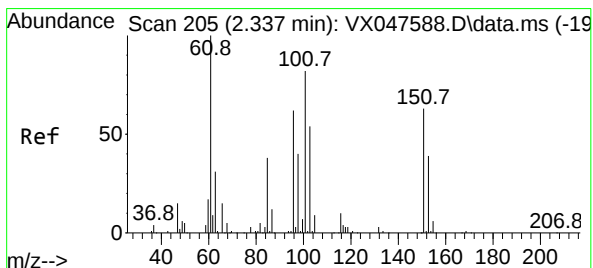
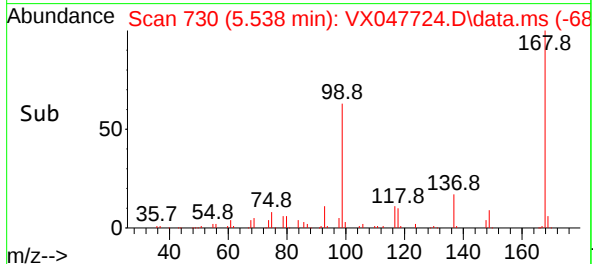
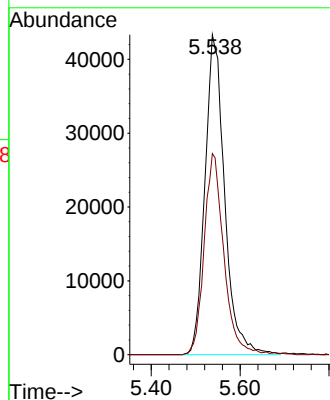


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

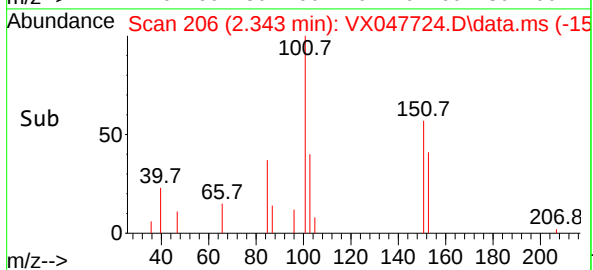
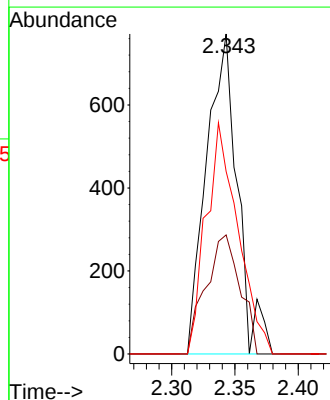
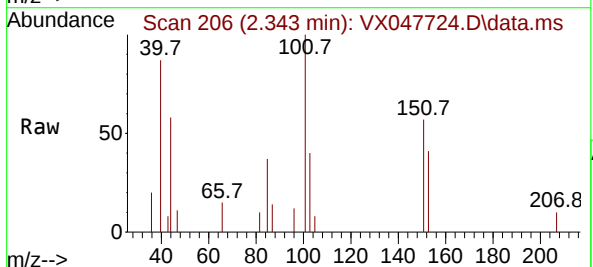


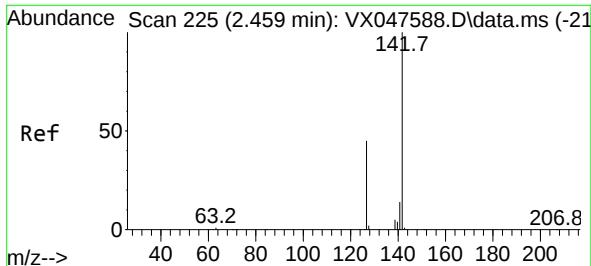
Tgt Ion:168 Resp: 133561
Ion Ratio Lower Upper
168 100
99 62.8 48.8 73.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.852 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

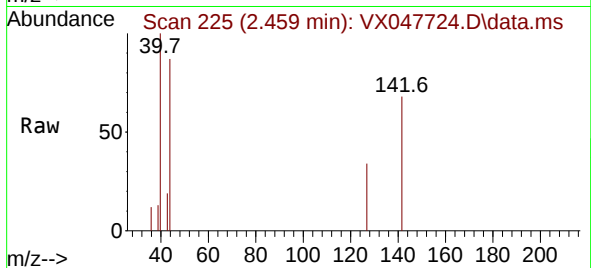
Tgt Ion:101 Resp: 1316
Ion Ratio Lower Upper
101 100
85 41.1 35.5 53.3
151 74.4 59.4 89.0



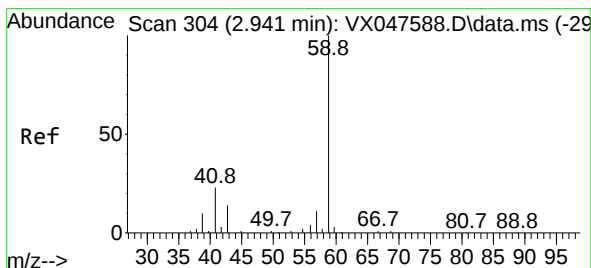
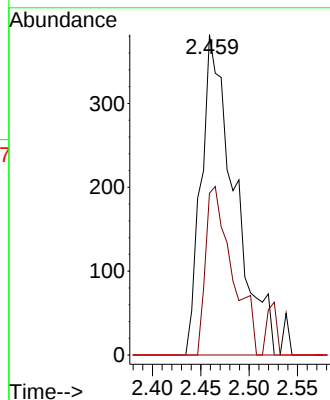
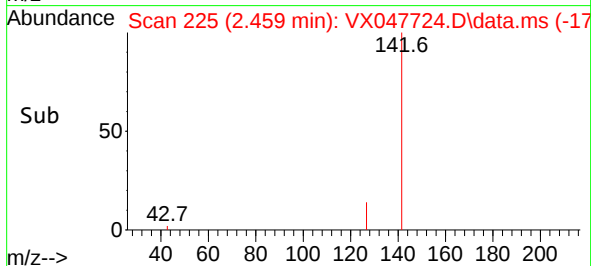


#10
Methyl Iodide
Concen: 0.381 ug/l
RT: 2.459 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

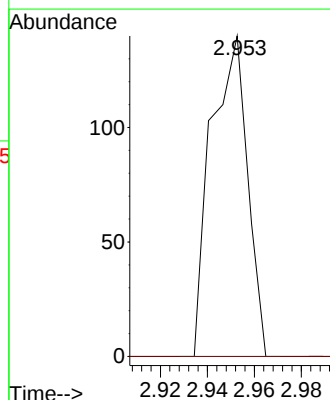
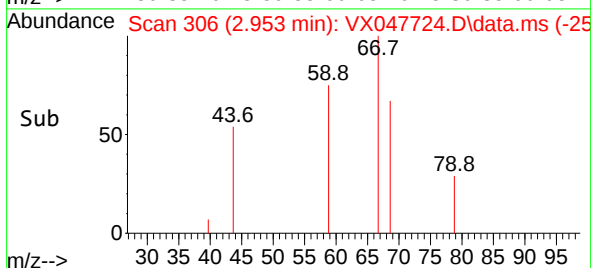
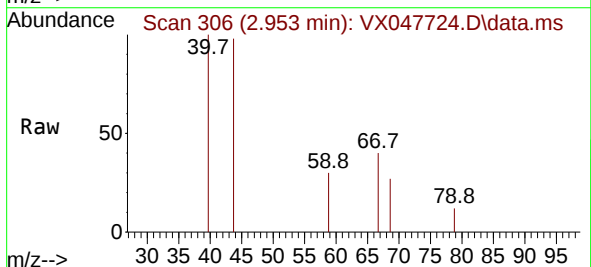


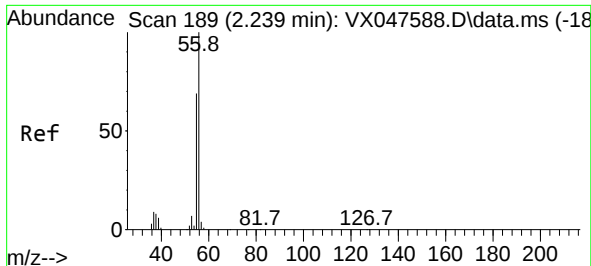
Tgt Ion:142 Resp: 917
Ion Ratio Lower Upper
142 100
127 42.0 37.2 55.8
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.634 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 59 Resp: 150
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

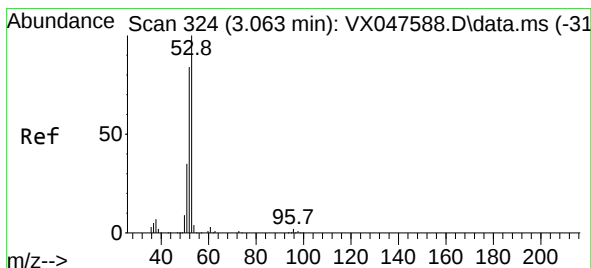
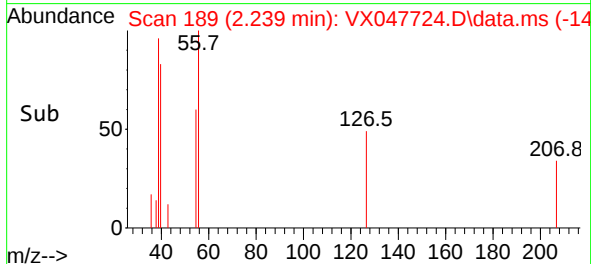
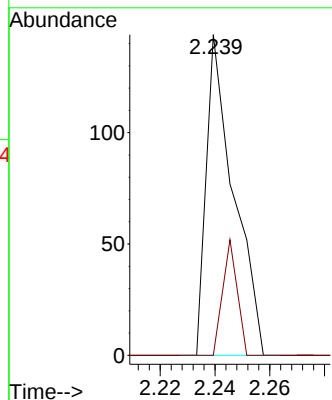
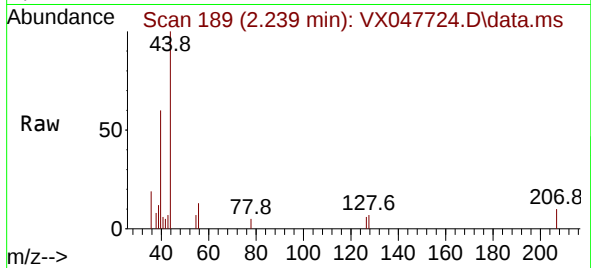




#13
Acrolein
Concen: 0.458 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

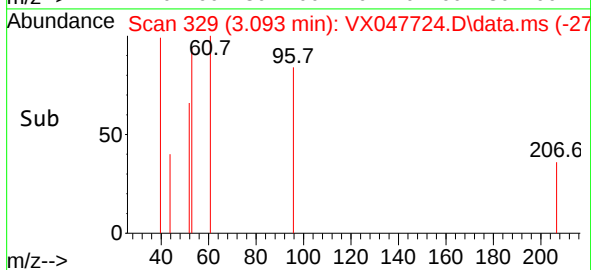
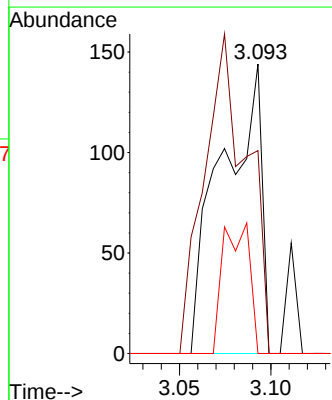
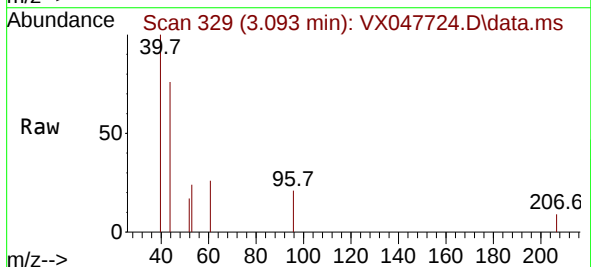
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

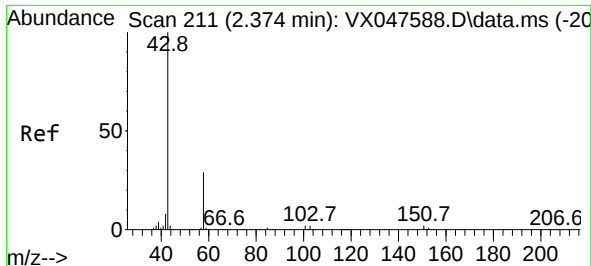
Tgt Ion: 56 Resp: 100
Ion Ratio Lower Upper
56 100
55 19.0 57.2 85.8#



#15
Acrylonitrile
Concen: 0.249 ug/l
RT: 3.093 min Scan# 329
Delta R.T. 0.030 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 53 Resp: 218
Ion Ratio Lower Upper
53 100
52 118.8 66.4 99.6#
51 29.8 29.5 44.3

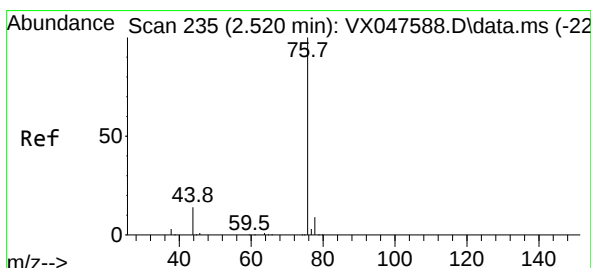
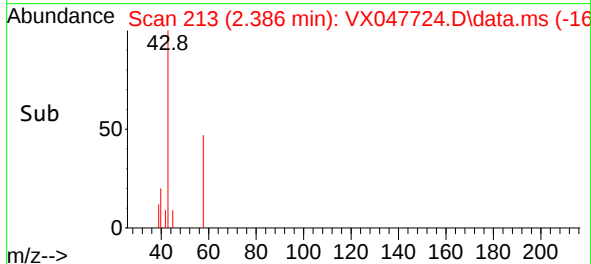
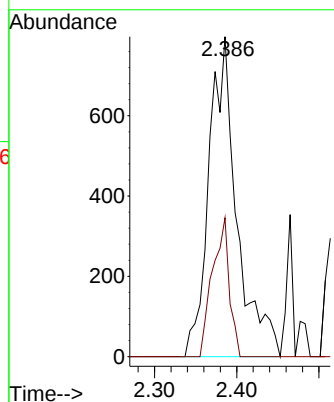
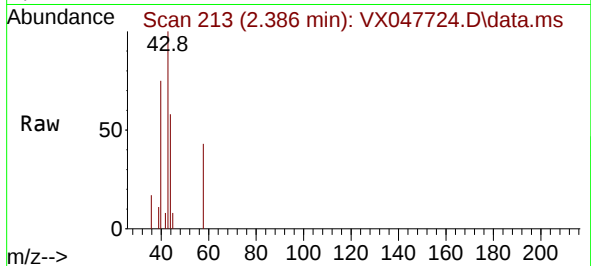




#16
Acetone
Concen: 2.033 ug/l
RT: 2.386 min Scan# 211
Delta R.T. 0.012 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

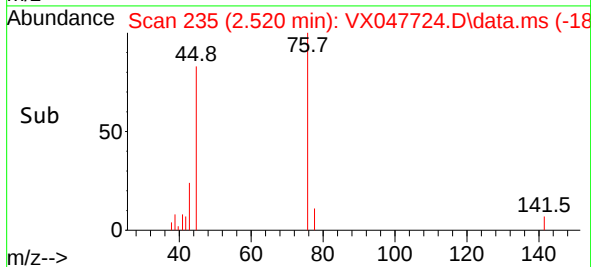
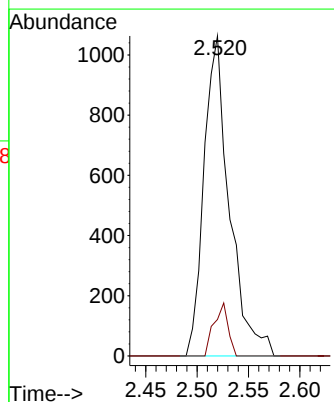
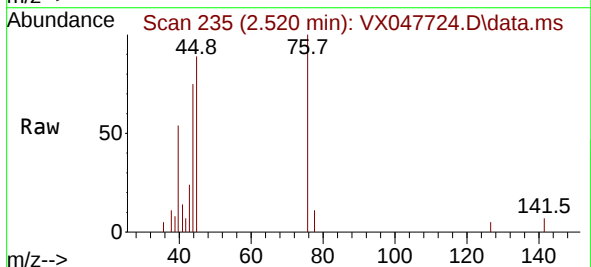
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

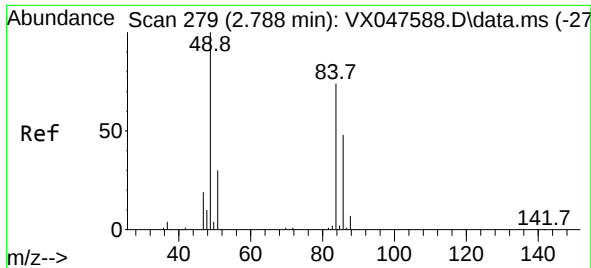
Tgt Ion: 43 Resp: 1879
Ion Ratio Lower Upper
43 100
58 142.4 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.422 ug/l
RT: 2.520 min Scan# 235
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 76 Resp: 1834
Ion Ratio Lower Upper
76 100
78 11.4 6.8 10.2#

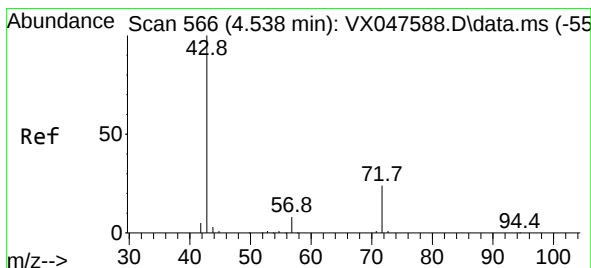
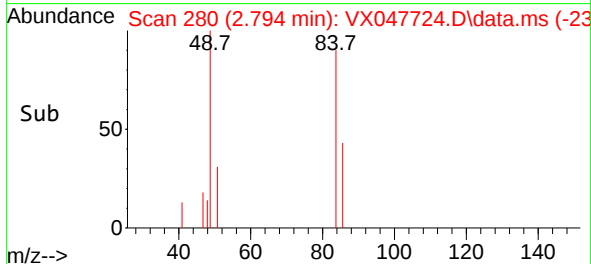
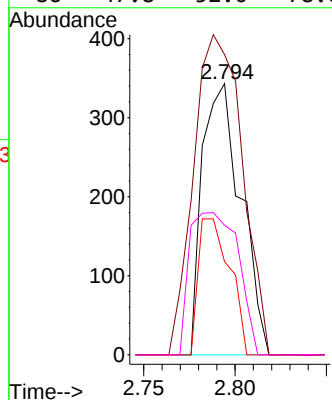
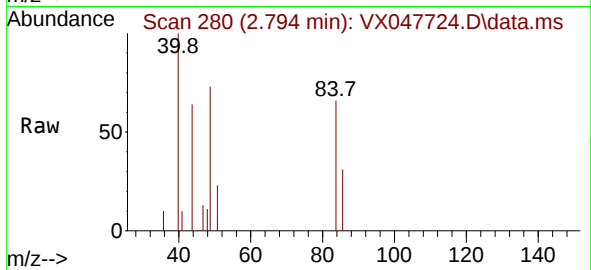




#20
Methylene Chloride
Concen: 0.259 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

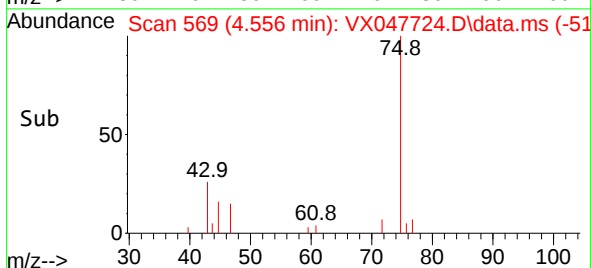
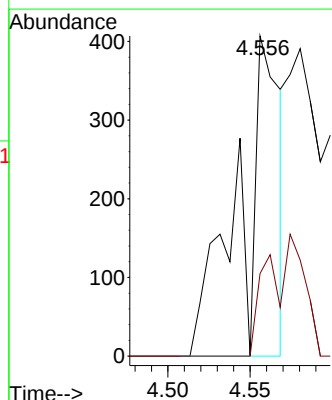
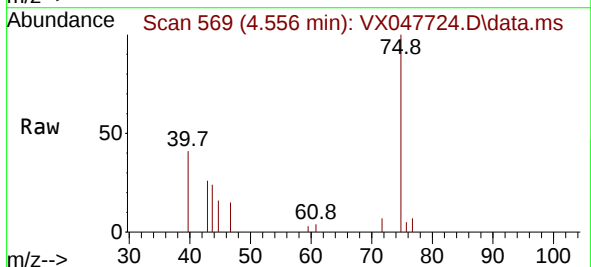
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

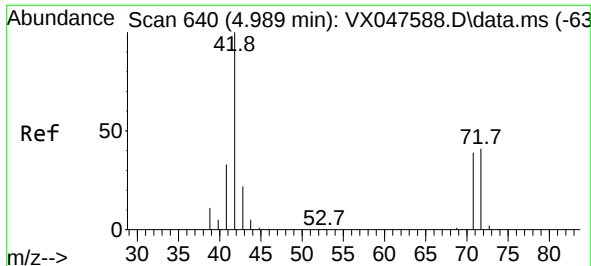
Tgt Ion: 84 Resp: 507
Ion Ratio Lower Upper
84 100
49 110.8 108.6 162.8
51 34.4 32.6 48.8
86 47.8 52.0 78.0#



#25
2-Butanone
Concen: 0.591 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.018 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 43 Resp: 681
Ion Ratio Lower Upper
43 100
72 23.1 20.1 30.1





#29

Tetrahydrofuran

Concen: 2.777 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX047724.D

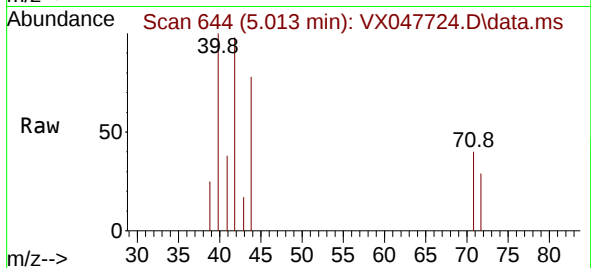
Acq: 23 Sep 2025 11:36

Instrument :

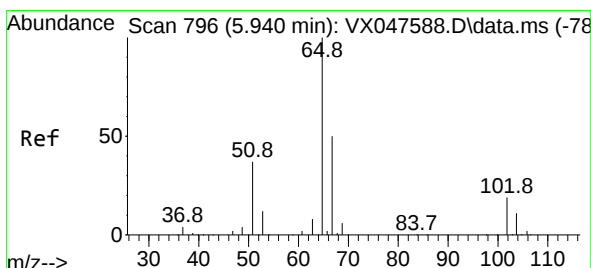
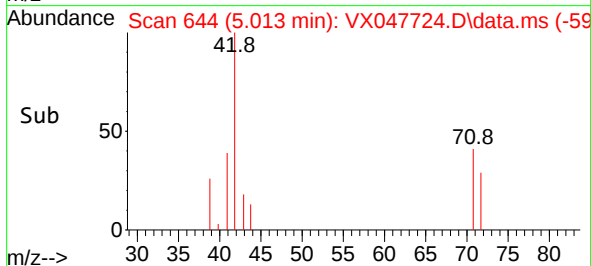
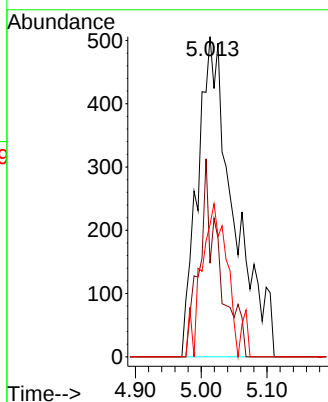
MSVOA_X

ClientSampleId :

RE103D2-20250911DL



Tgt Ion:	42	Resp:	1926
Ion	Ratio	Lower	Upper
42	100		
72	34.1	34.2	51.2#
71	32.8	31.9	47.9



#33

1,2-Dichloroethane-d4

Concen: 47.644 ug/l

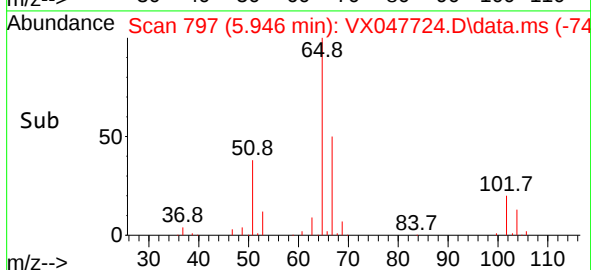
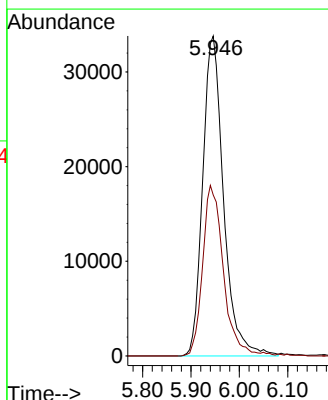
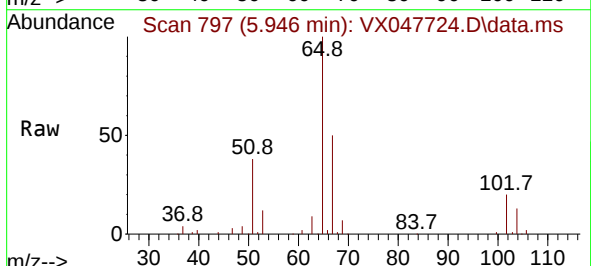
RT: 5.946 min Scan# 797

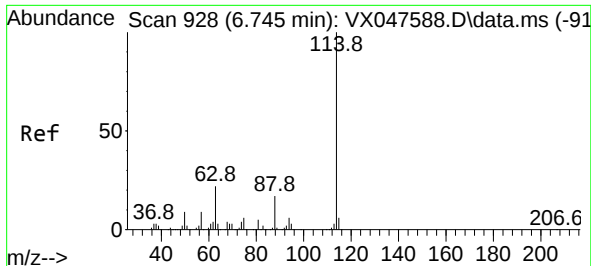
Delta R.T. 0.006 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

Tgt Ion:	65	Resp:	101290
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	103.0

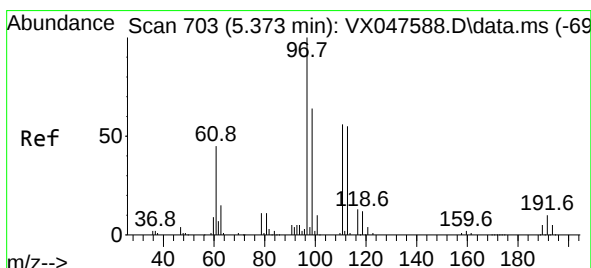
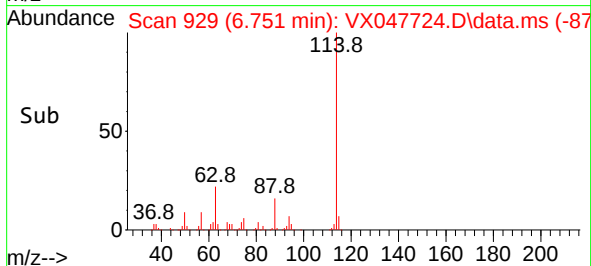
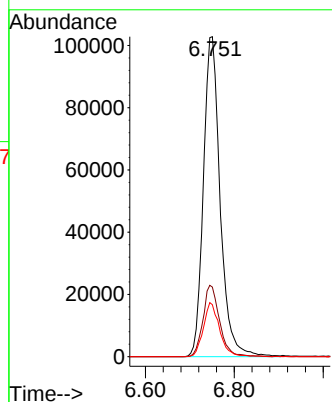
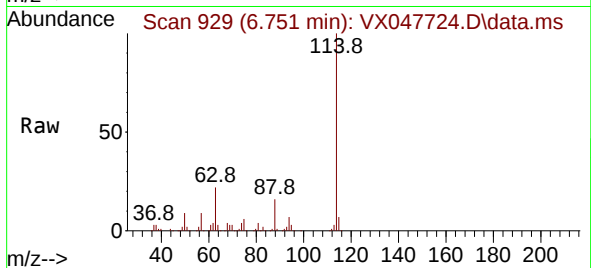




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

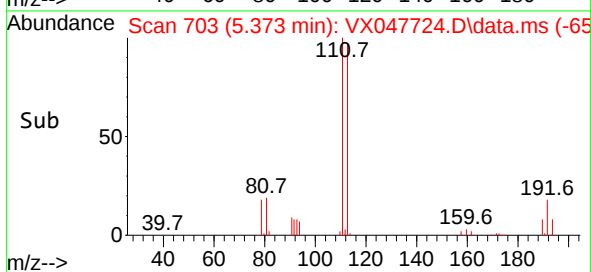
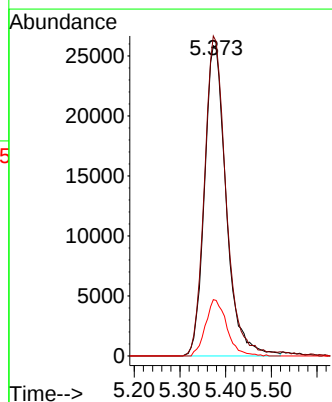
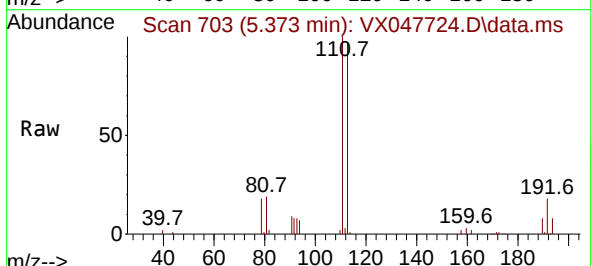
Instrument :
MSVOA_X
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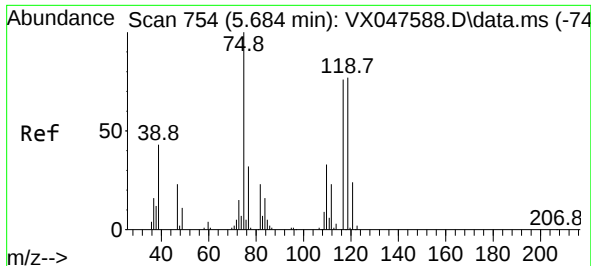
Tgt Ion:114 Resp: 270653
Ion Ratio Lower Upper
114 100
63 21.7 0.0 44.0
88 16.2 0.0 34.2



#35
Dibromofluoromethane
Concen: 46.966 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion:113 Resp: 85250
Ion Ratio Lower Upper
113 100
111 102.6 80.9 121.3
192 17.8 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.191 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX047724.D

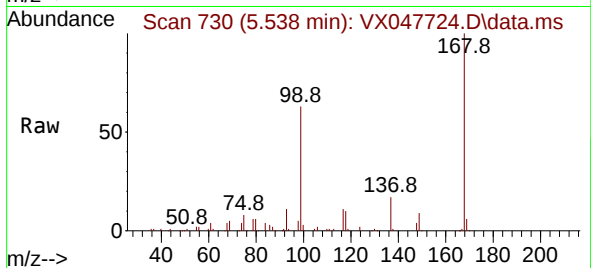
Acq: 23 Sep 2025 11:36

Instrument :

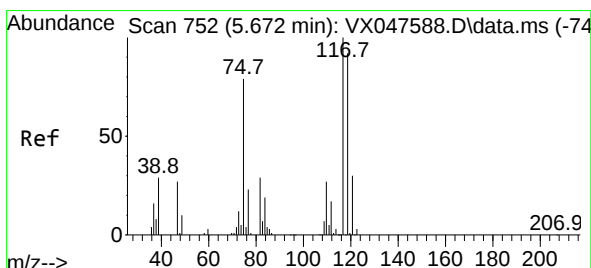
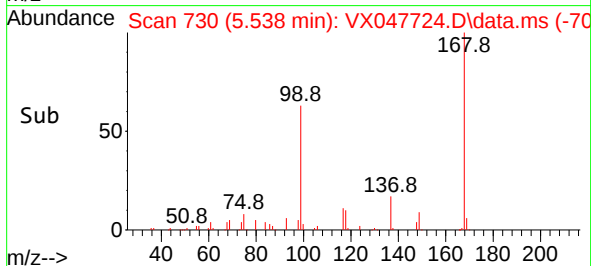
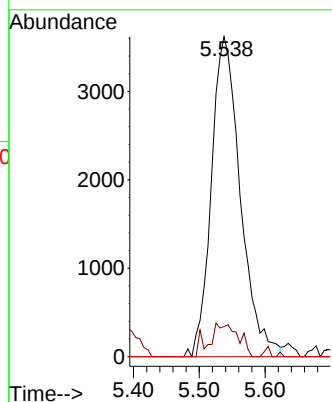
MSVOA_X

ClientSampleId :

RE103D2-20250911DL



Tgt Ion:	75	Resp:	11116
Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.7	50.1#
77	0.0	24.3	36.5#



#38

Carbon Tetrachloride

Concen: 4.927 ug/l

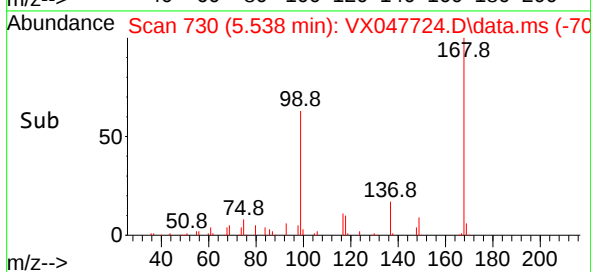
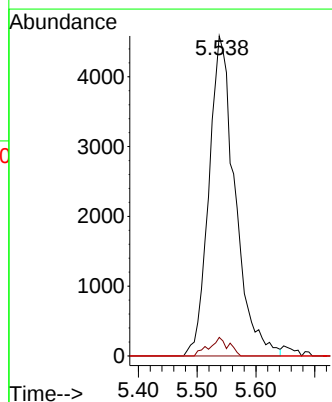
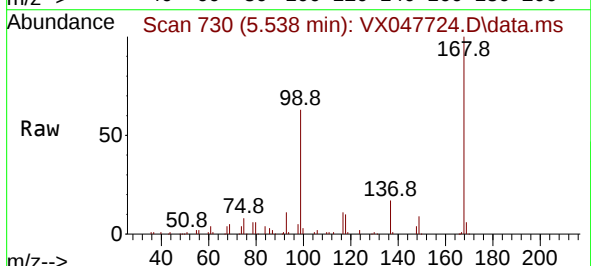
RT: 5.538 min Scan# 730

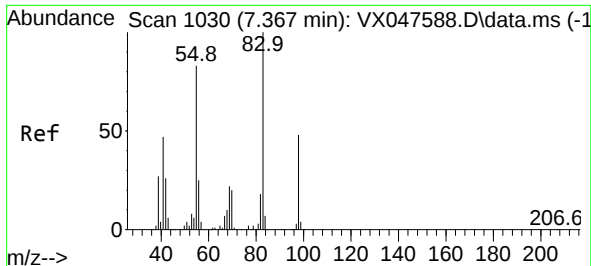
Delta R.T. -0.134 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

Tgt Ion:	117	Resp:	14199
Ion	Ratio	Lower	Upper
117	100		
119	5.8	73.4	110.2#
121	0.0	23.8	35.6#





#39

Methylcyclohexane

Concen: 0.217 ug/l

RT: 7.367 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047724.D

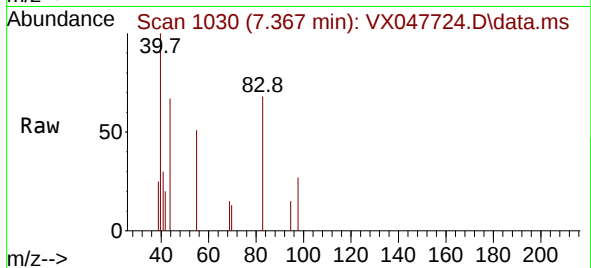
Acq: 23 Sep 2025 11:36

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20250911DL



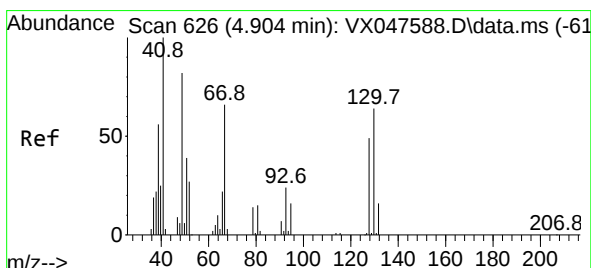
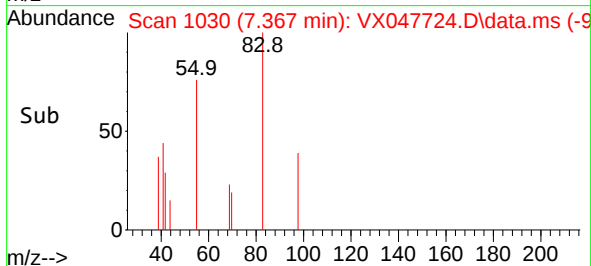
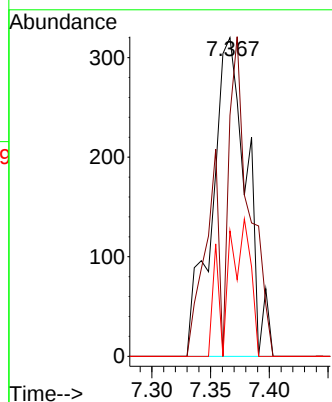
Tgt Ion: 83 Resp: 653

Ion Ratio Lower Upper

83 100

55 75.6 66.4 99.6

98 39.4 38.1 57.1



#41

Methacrylonitrile

Concen: 0.426 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.104 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

Tgt Ion: 41 Resp: 624

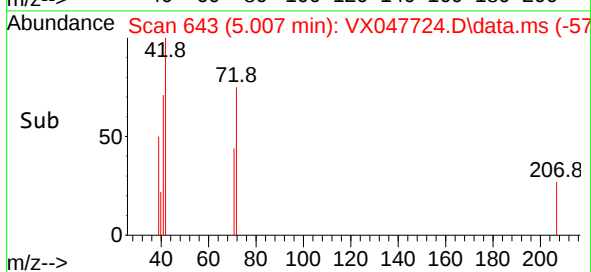
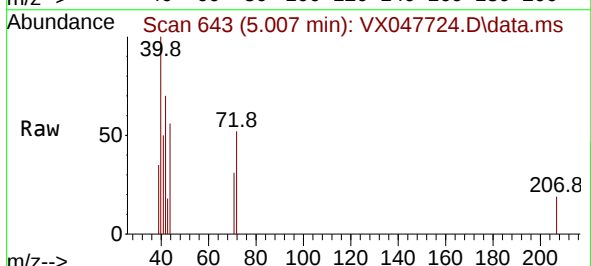
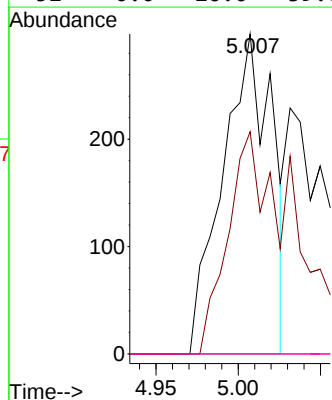
Ion Ratio Lower Upper

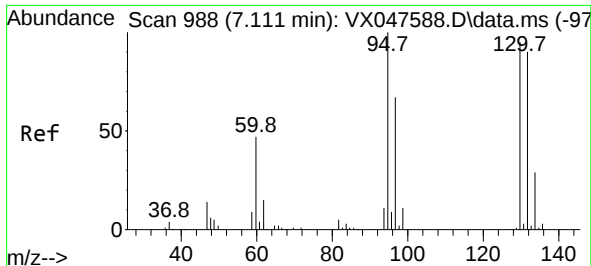
41 100

39 92.8 43.3 64.9#

67 0.0 58.6 87.8#

52 0.0 26.0 39.0#

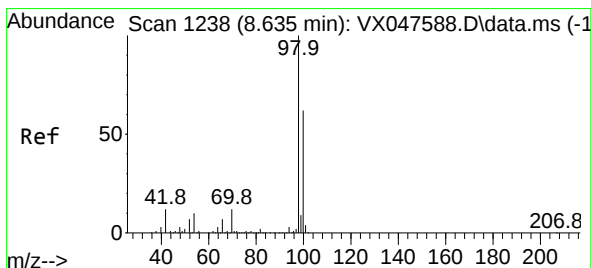
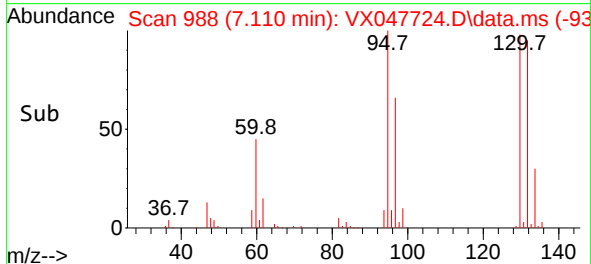
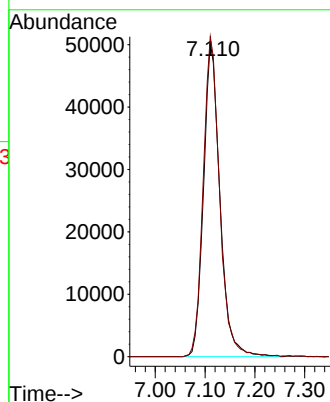
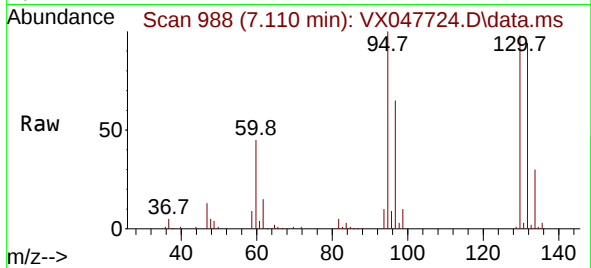




#44
Trichloroethene
Concen: 58.882 ug/l
RT: 7.110 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

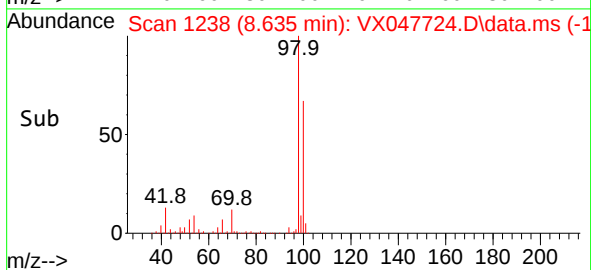
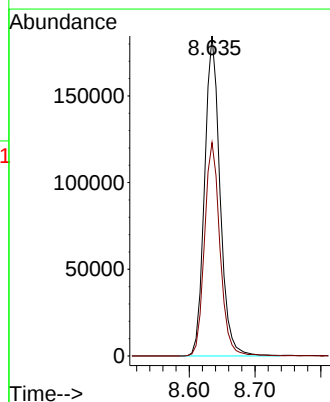
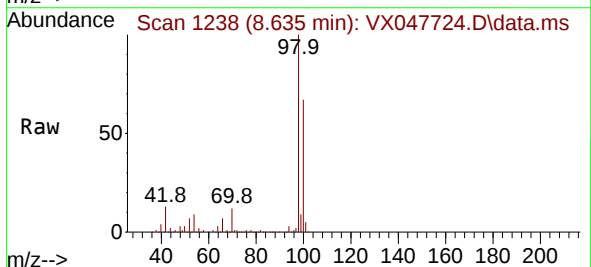
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

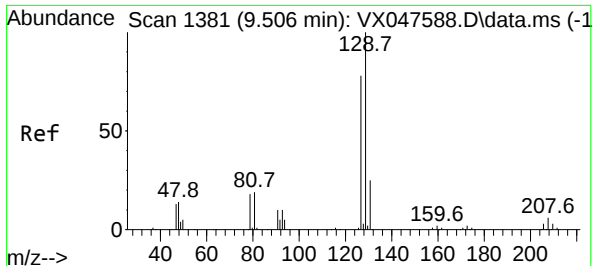
Tgt Ion:130 Resp: 114679
Ion Ratio Lower Upper
130 100
95 101.8 0.0 210.8



#50
Toluene-d8
Concen: 47.963 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 98 Resp: 301245
Ion Ratio Lower Upper
98 100
100 66.8 53.0 79.4





#60

Dibromochloromethane

Concen: 0.260 ug/l

RT: 9.256 min Scan# 11

Delta R.T. -0.250 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

Instrument :

MSVOA_X

ClientSampleId :

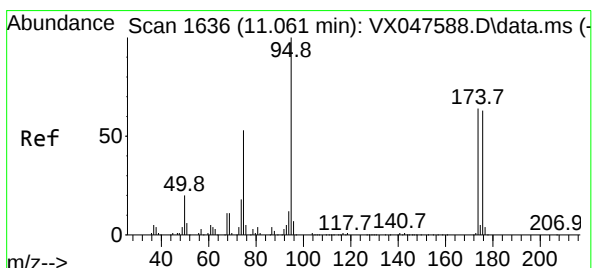
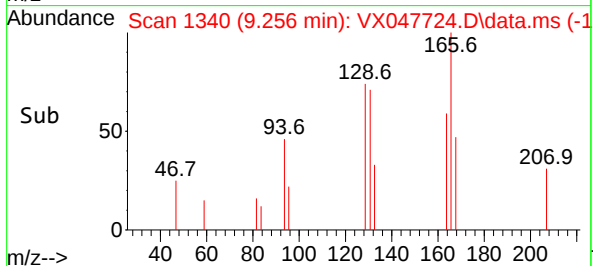
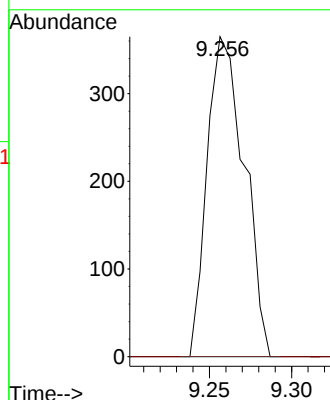
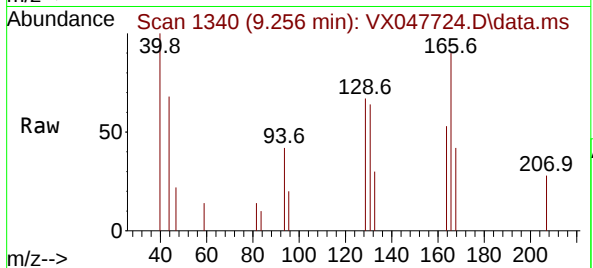
RE103D2-20250911DL

Tgt Ion:129 Resp: 573

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



#62

4-Bromofluorobenzene

Concen: 53.085 ug/l

RT: 11.067 min Scan# 1637

Delta R.T. 0.006 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

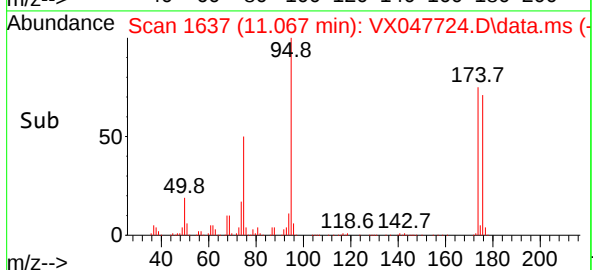
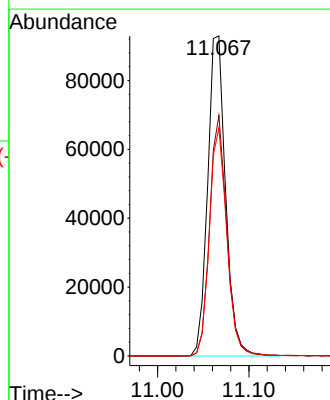
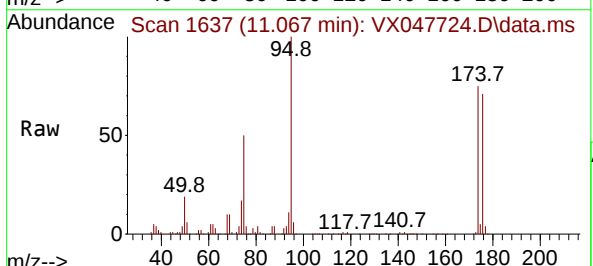
Tgt Ion: 95 Resp: 126537

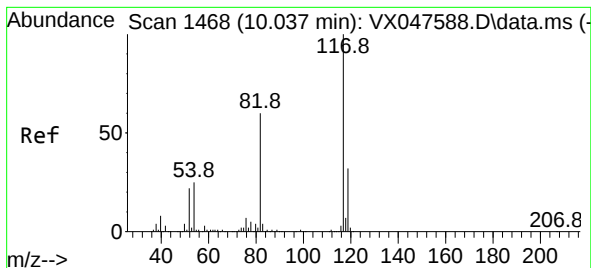
Ion Ratio Lower Upper

95 100

174 72.1 0.0 141.6

176 69.4 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20250911DL

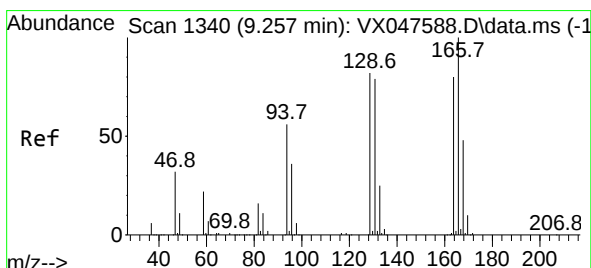
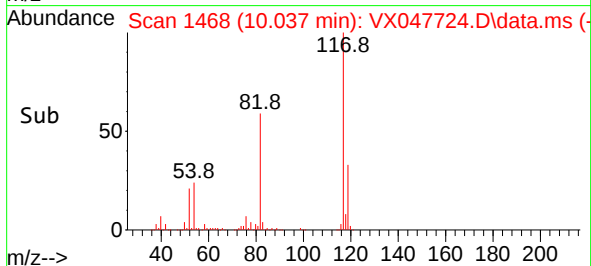
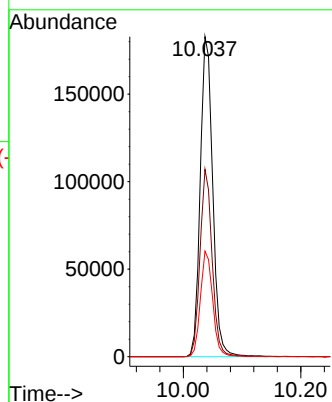
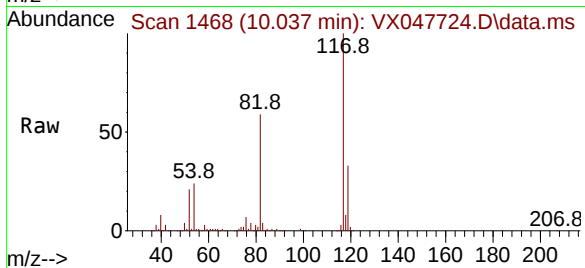
Tgt Ion:117 Resp: 268877

Ion Ratio Lower Upper

117 100

82 58.6 47.8 71.6

119 32.9 25.2 37.8



#64

Tetrachloroethene

Concen: 0.291 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

Tgt Ion:164 Resp: 510

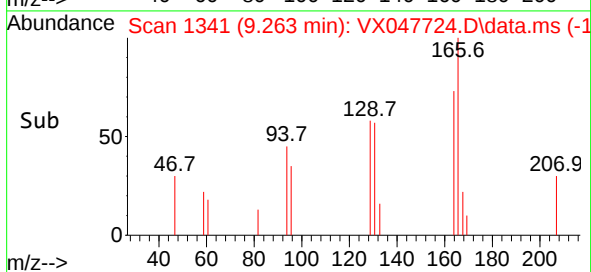
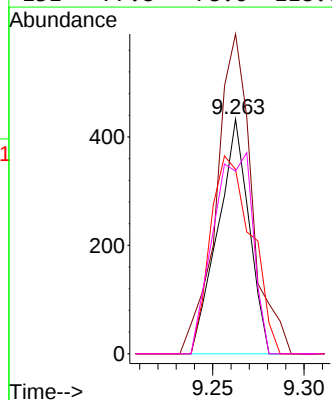
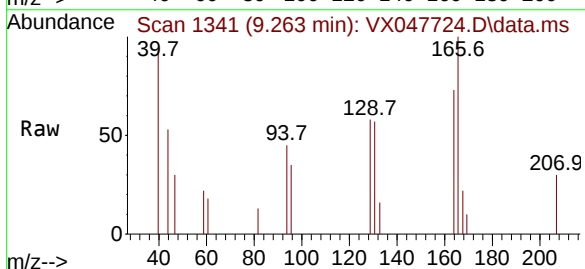
Ion Ratio Lower Upper

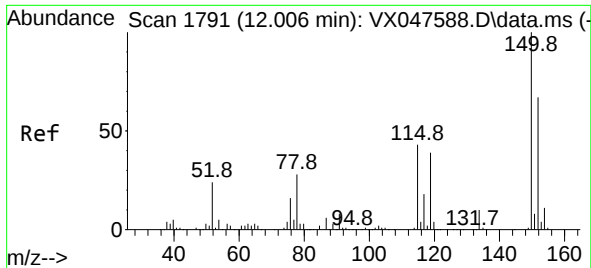
164 100

166 136.3 100.2 150.2

129 78.5 81.8 122.6#

131 77.8 78.6 118.0#

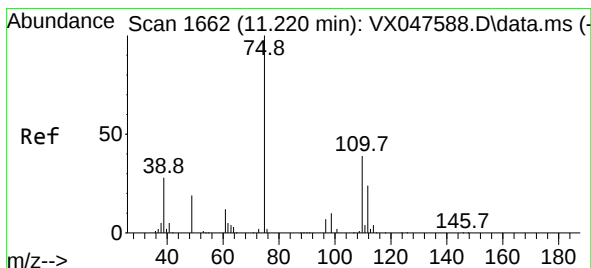
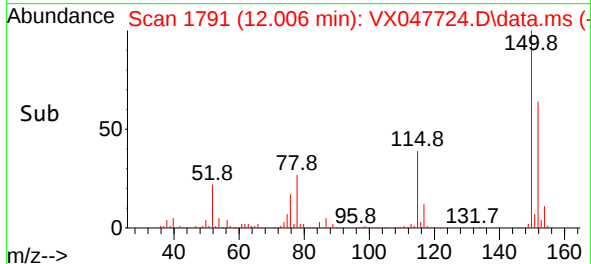
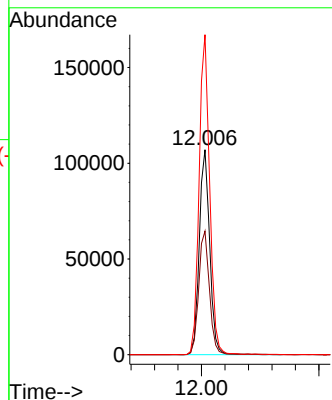
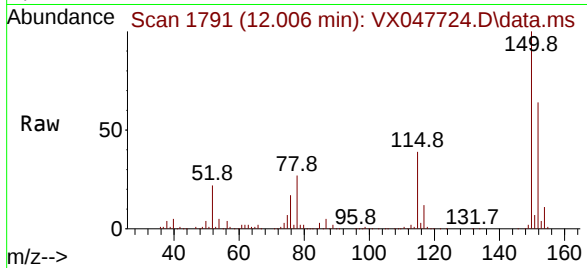




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX047724.D
 Acq: 23 Sep 2025 11:36

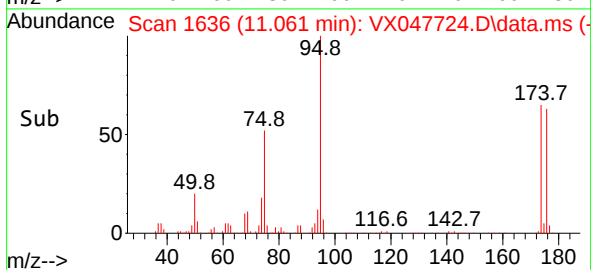
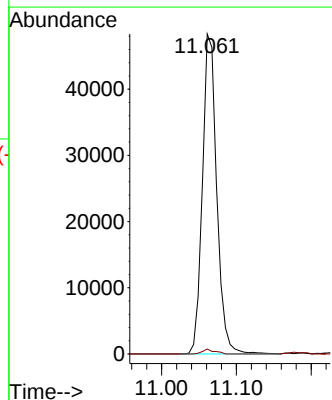
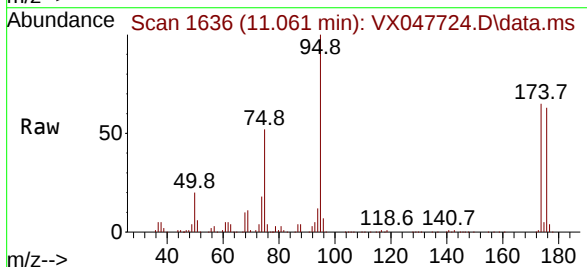
Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20250911DL

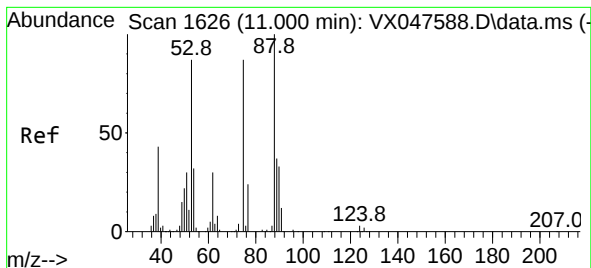
Tgt Ion:152 Resp: 132316
 Ion Ratio Lower Upper
 152 100
 115 62.0 44.9 134.5
 150 157.3 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.060 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX047724.D
 Acq: 23 Sep 2025 11:36

Tgt Ion: 75 Resp: 64457
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.8 56.4#

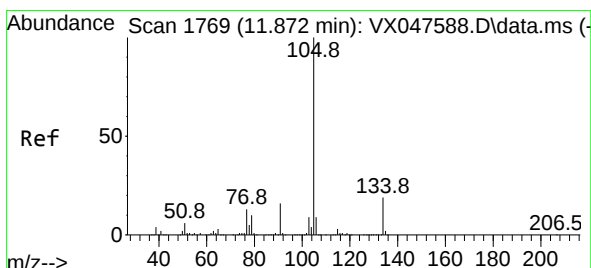
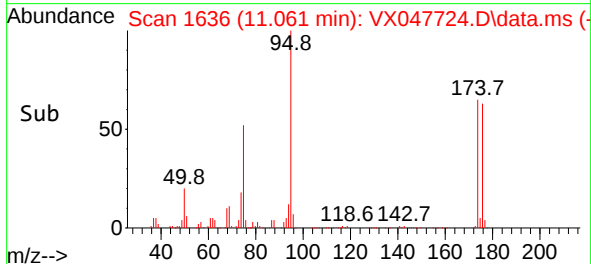
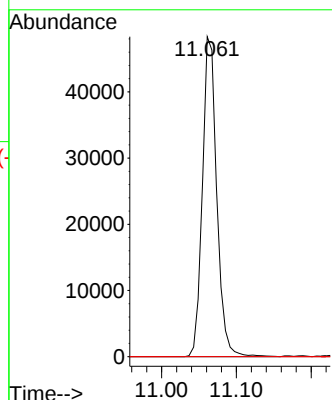
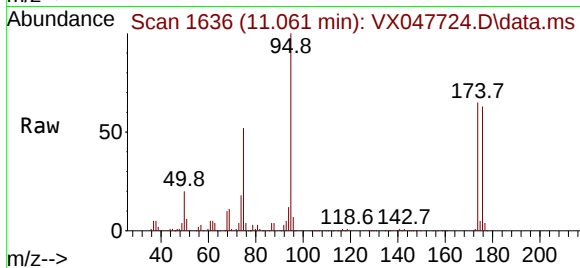




#81
trans-1,4-Dichloro-2-butene
Concen: 61.357 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

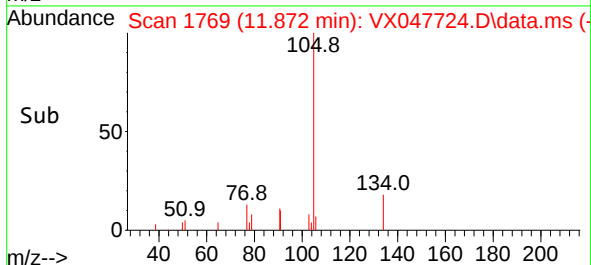
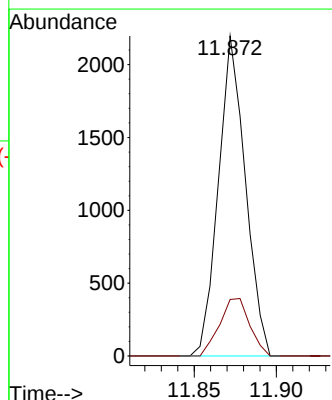
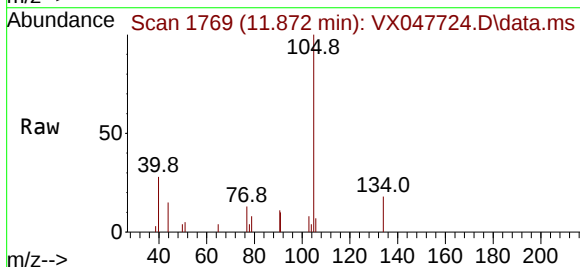
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

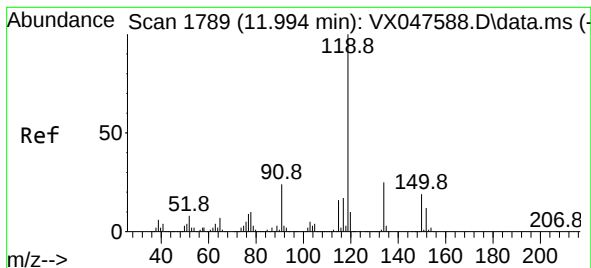
Tgt Ion: 75 Resp: 64457
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#85
sec-Butylbenzene
Concen: 0.249 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

Tgt Ion: 105 Resp: 2503
Ion Ratio Lower Upper
105 100
134 20.1 9.8 29.5





#86

p-Isopropyltoluene

Concen: 0.256 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX047724.D

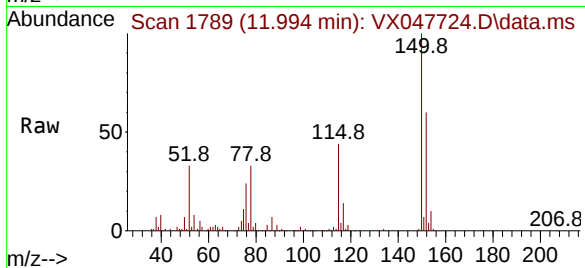
Acq: 23 Sep 2025 11:36

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20250911DL



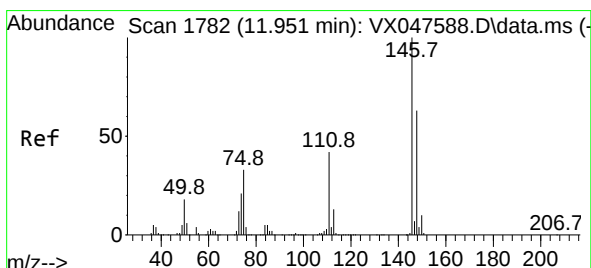
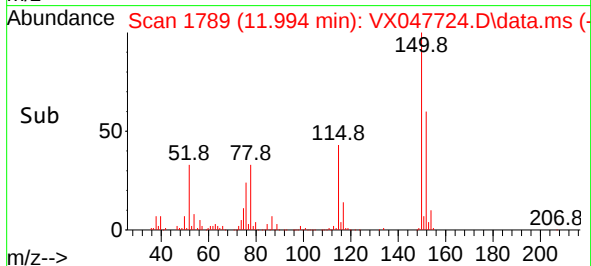
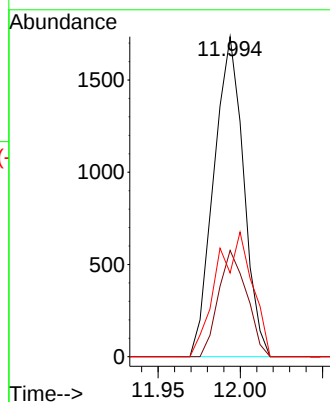
Tgt Ion:119 Resp: 2181

Ion Ratio Lower Upper

119 100

134 31.5 12.6 37.8

91 46.8 12.6 37.6#



#87

1,3-Dichlorobenzene

Concen: 0.201 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

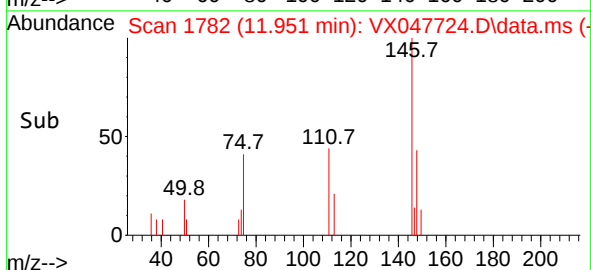
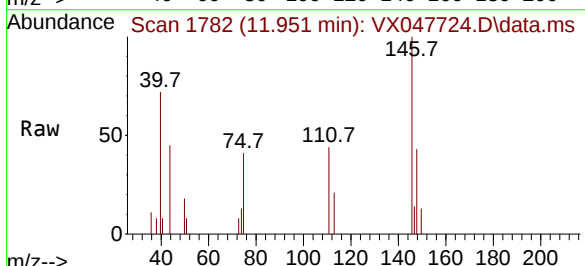
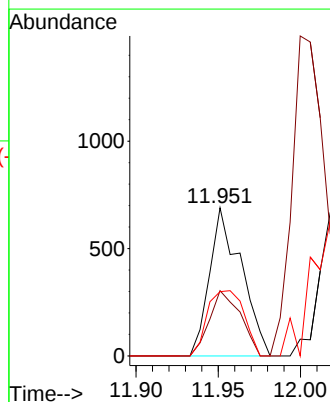
Tgt Ion:146 Resp: 924

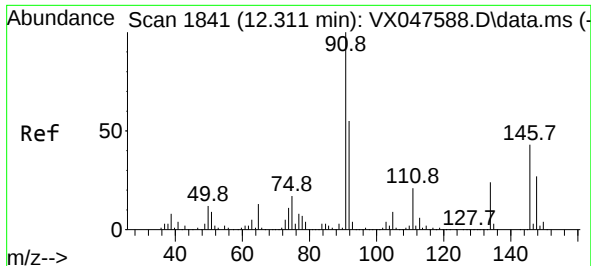
Ion Ratio Lower Upper

146 100

111 43.1 21.5 64.5

148 51.0 32.0 96.0





#89

n-Butylbenzene

Concen: 0.382 ug/l

RT: 12.317 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

Instrument :

MSVOA_X

ClientSampleId :

RE103D2-20250911DL

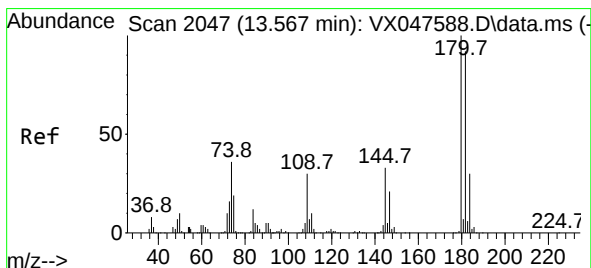
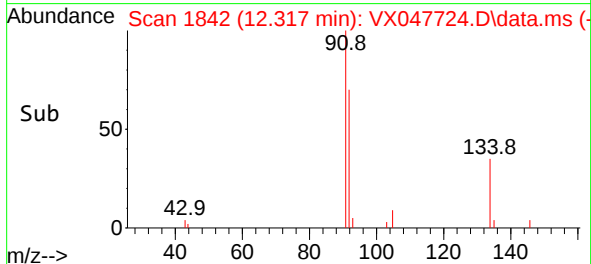
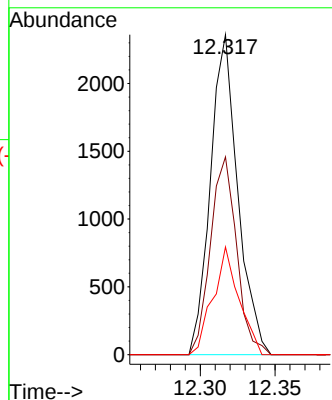
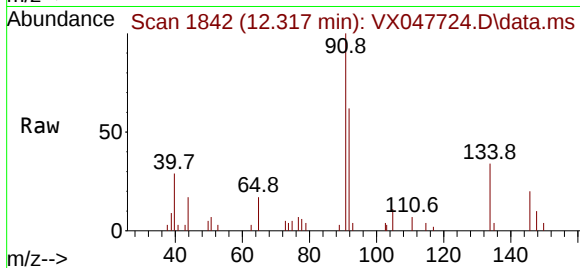
Tgt Ion: 91 Resp: 3007

Ion Ratio Lower Upper

91 100

92 59.1 27.6 82.7

134 32.0 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.582 ug/l

RT: 13.573 min Scan# 2048

Delta R.T. 0.006 min

Lab File: VX047724.D

Acq: 23 Sep 2025 11:36

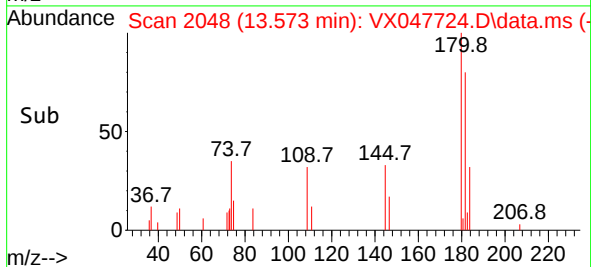
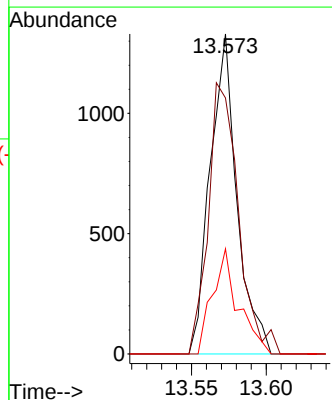
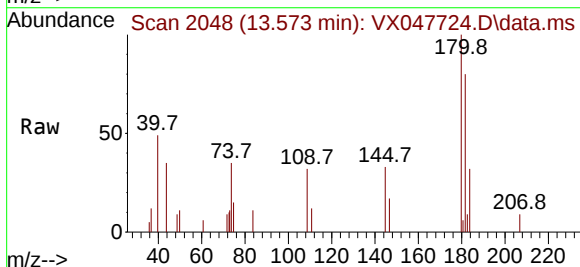
Tgt Ion:180 Resp: 1657

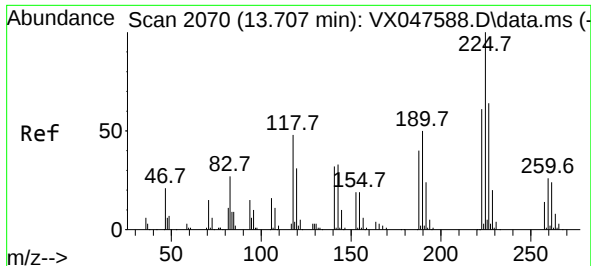
Ion Ratio Lower Upper

180 100

182 95.3 46.6 139.8

145 31.7 16.4 49.1

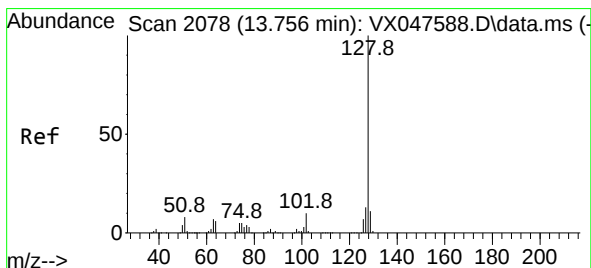
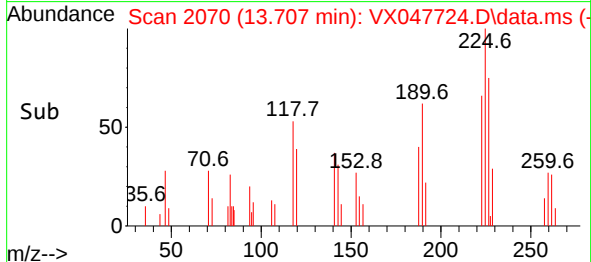
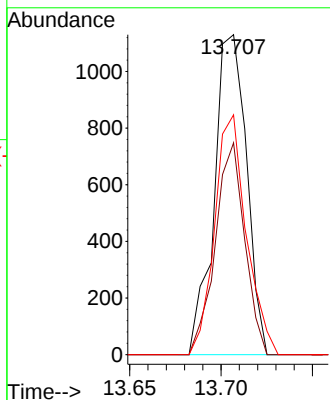
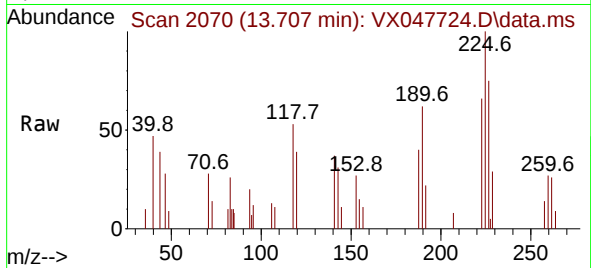




#94
Hexachlorobutadiene
Concen: 1.443 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

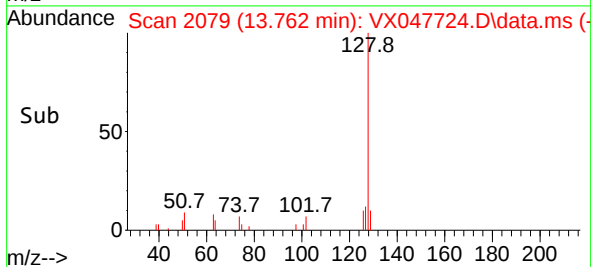
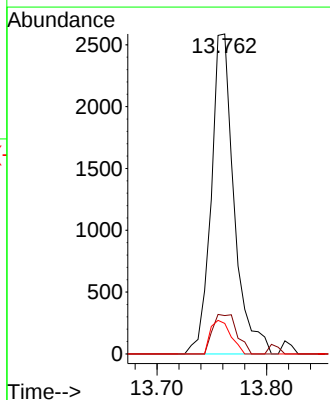
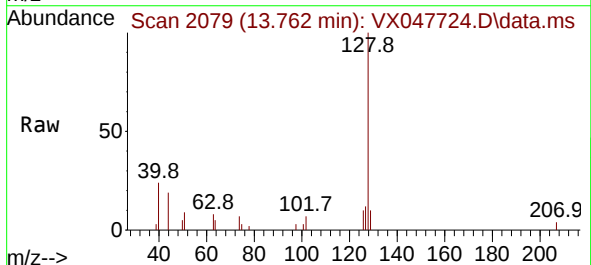
Instrument :
MSVOA_X
ClientSampleId :
RE103D2-20250911DL

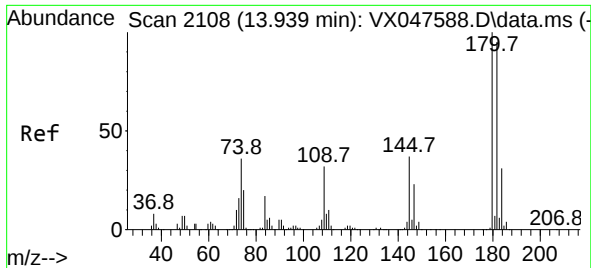
Tgt Ion:	225	Resp:	1397
Ion	Ratio	Lower	Upper
225	100		
223	59.9	31.7	95.1
227	73.2	32.0	96.0



#95
Naphthalene
Concen: 0.433 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX047724.D
Acq: 23 Sep 2025 11:36

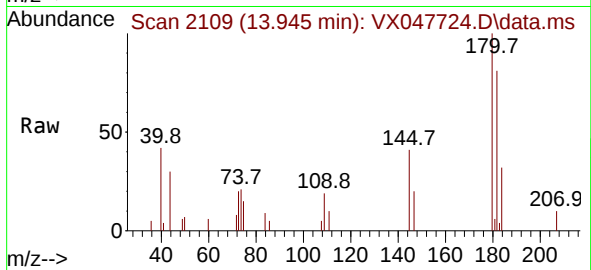
Tgt Ion:	128	Resp:	3754
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	9.3	8.8	13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.648 ug/l
 RT: 13.945 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX047724.D
 Acq: 23 Sep 2025 11:36

Instrument :
 MSVOA_X
 ClientSampleId :
 RE103D2-20250911DL



Tgt Ion:	180	Resp:	1717
Ion	Ratio	Lower	Upper
180	100		
182	87.4	47.6	142.8
145	36.9	17.9	53.7

