

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081225\
 Data File : VX047294.D
 Acq On : 12 Aug 2025 14:13
 Operator : JC/MD
 Sample : Q2814-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-82H-N

Quant Time: Aug 13 01:21:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

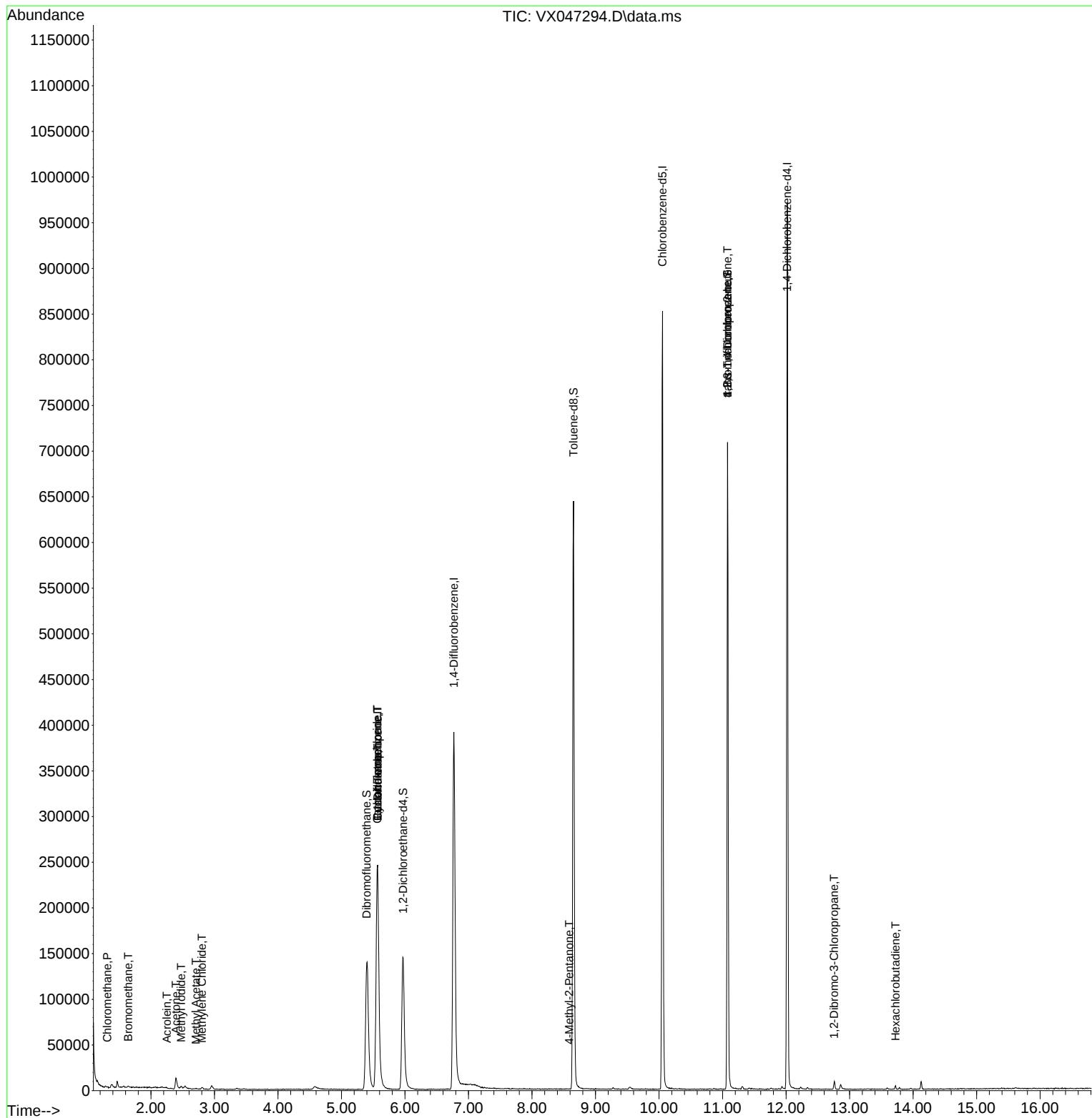
Internal Standards						
1) Pentafluorobenzene	5.568	168	248664	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	420068	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	379296	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	196916	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	155083	50.066	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 100.140%	
35) Dibromofluoromethane	5.397	113	136376	52.581	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.160%	
50) Toluene-d8	8.653	98	386600	46.027	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 92.060%	
62) 4-Bromofluorobenzene	11.079	95	186460	51.513	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 103.020%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.313	50	882	0.270	ug/l #	84
5) Bromomethane	1.642	94	416	0.218	ug/l	82
10) Methyl Iodide	2.477	142	3576	1.112	ug/l	94
11) Tert butyl alcohol	2.959	59	1945	Below Cal	#	77
13) Acrolein	2.252	56	139	0.208	ug/l #	46
16) Acetone	2.392	43	15400	12.410	ug/l	95
18) Methyl Acetate	2.709	43	801	0.243	ug/l #	54
20) Methylene Chloride	2.800	84	1069	0.313	ug/l #	81
31) Cyclohexane	5.568	56	5558	0.960	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	20440	4.623	ug/l #	47
38) Carbon Tetrachloride	5.562	117	26399	5.595	ug/l #	17
51) 4-Methyl-2-Pentanone	8.586	43	773	0.205	ug/l #	37
76) 1,2,3-Trichloropropane	11.079	75	97324	26.702	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	97324	68.795	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.756	75	288	0.338	ug/l #	2
94) Hexachlorobutadiene	13.725	225	470	0.309	ug/l	78

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
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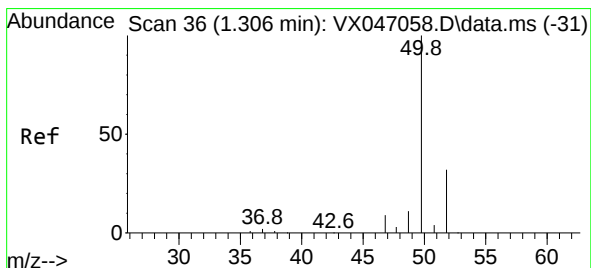
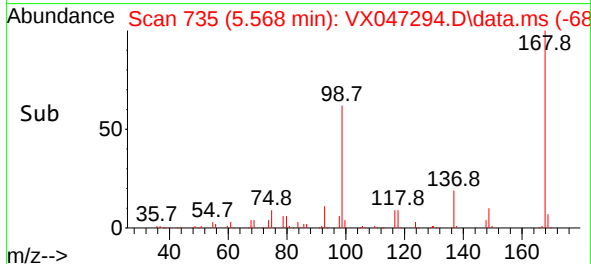
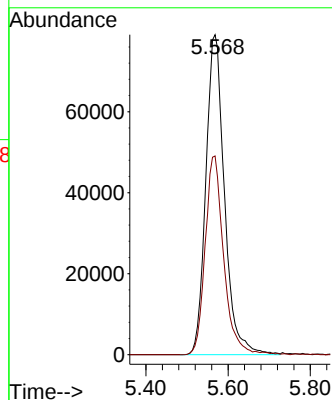
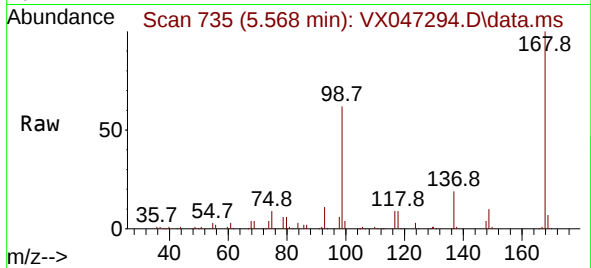




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

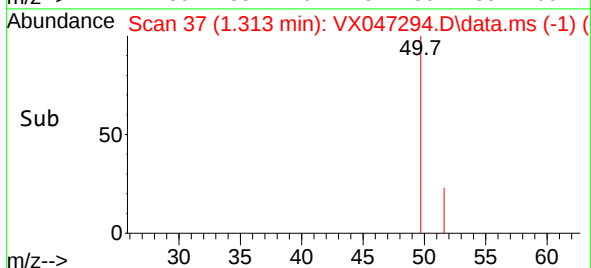
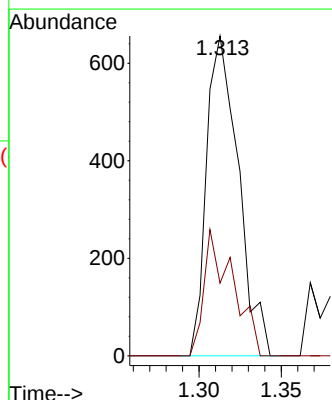
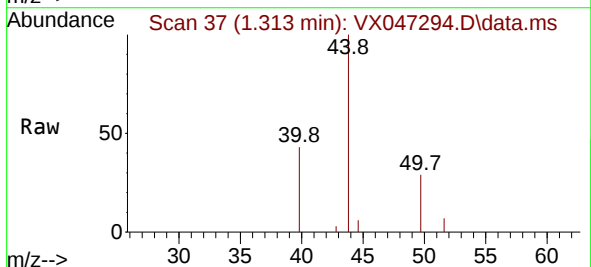
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-N

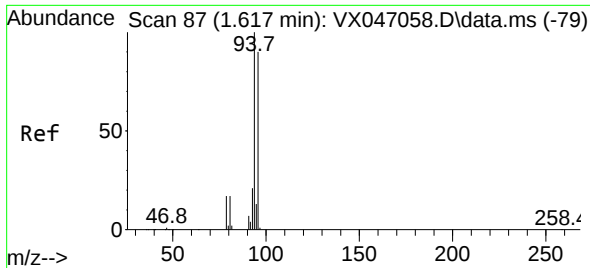
Tgt Ion:168 Resp: 248664
Ion Ratio Lower Upper
168 100
99 62.1 48.0 72.0



#3
Chloromethane
Concen: 0.270 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.006 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

Tgt Ion: 50 Resp: 882
Ion Ratio Lower Upper
50 100
52 22.7 25.4 38.2#

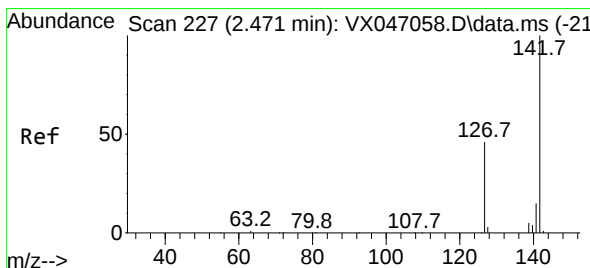
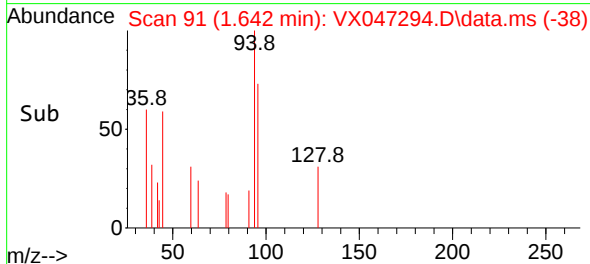
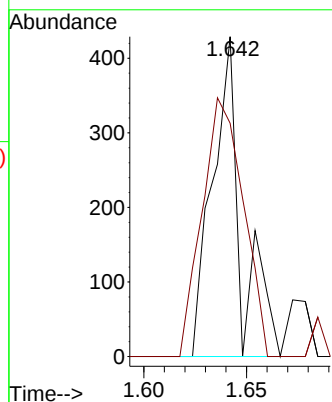
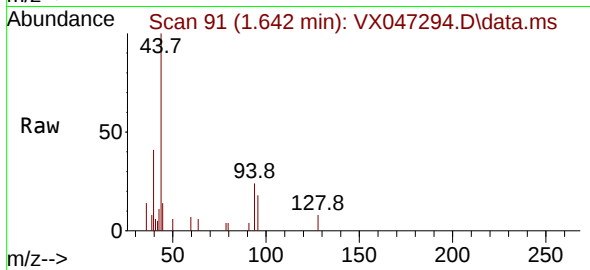




#5
Bromomethane
Concen: 0.218 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.025 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

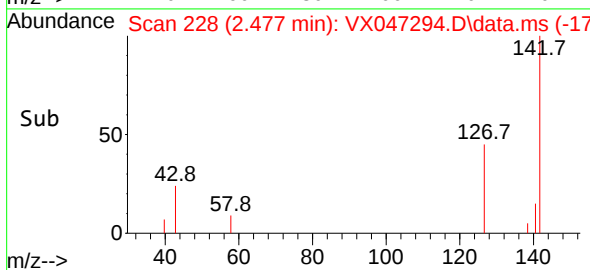
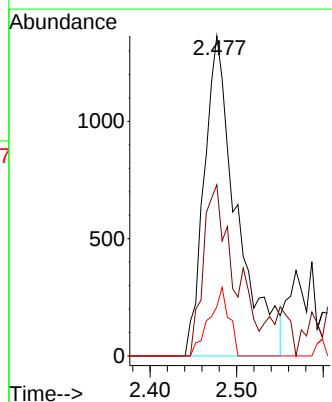
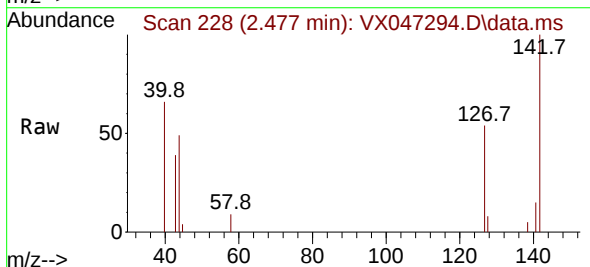
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-N

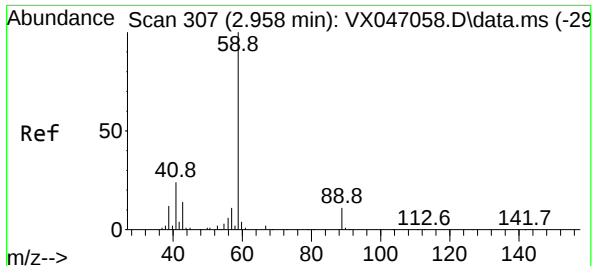
Tgt Ion: 94 Resp: 416
Ion Ratio Lower Upper
94 100
96 73.0 72.3 108.5



#10
Methyl Iodide
Concen: 1.112 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

Tgt Ion: 142 Resp: 3576
Ion Ratio Lower Upper
142 100
127 41.2 36.6 54.8
141 12.8 10.9 16.3





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.959 min Scan# 307

Delta R.T. 0.001 min

Lab File: VX047294.D

Acq: 12 Aug 2025 14:13

Instrument :

MSVOA_X

ClientSampleId :

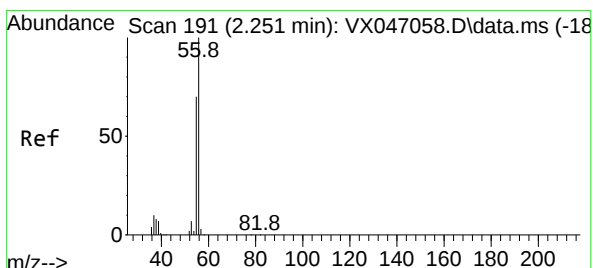
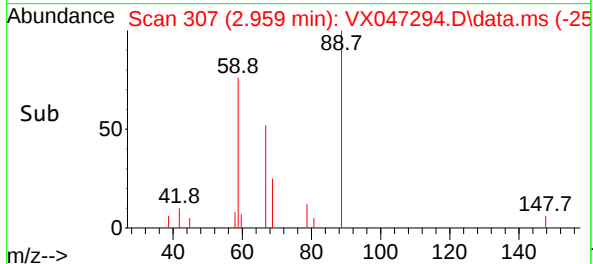
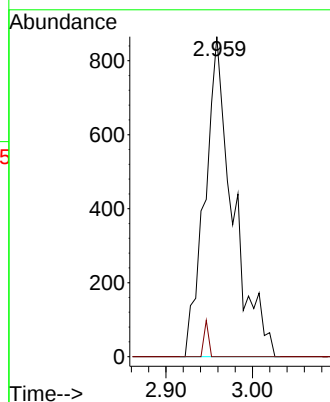
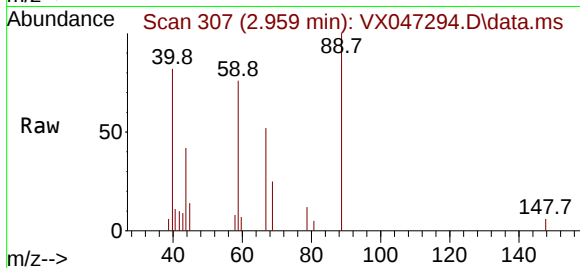
TW-82H-N

Tgt Ion: 59 Resp: 1945

Ion Ratio Lower Upper

59 100

57 1.9 8.5 12.7#



#13

Acrolein

Concen: 0.208 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX047294.D

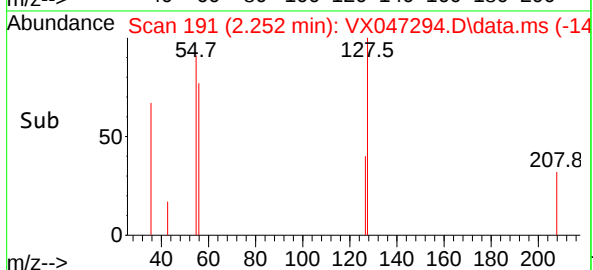
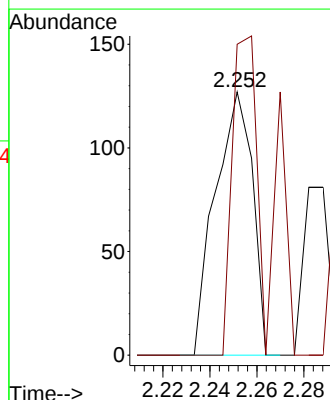
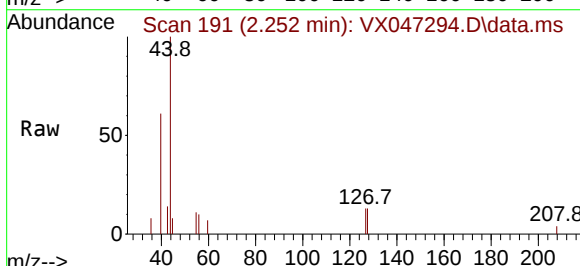
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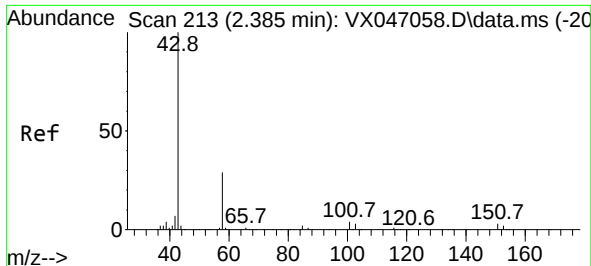
Tgt Ion: 56 Resp: 139

Ion Ratio Lower Upper

56 100

55 113.7 55.7 83.5#

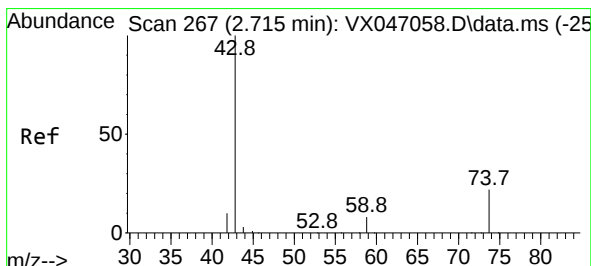
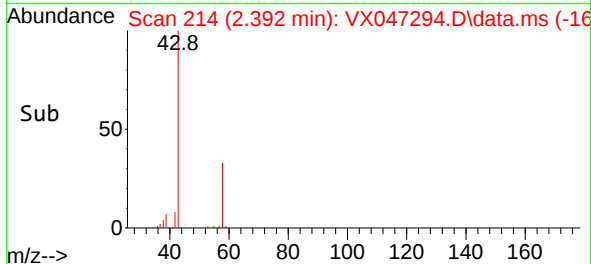
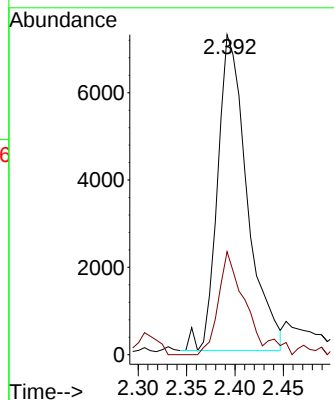
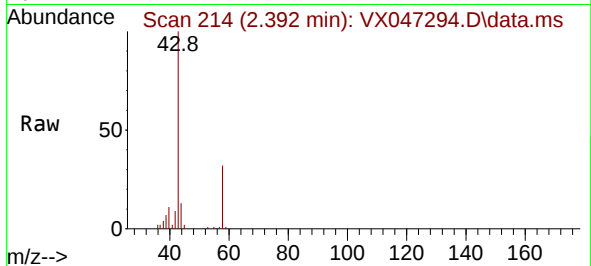




#16
Acetone
Concen: 12.410 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

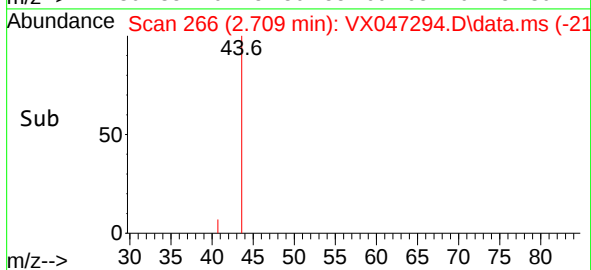
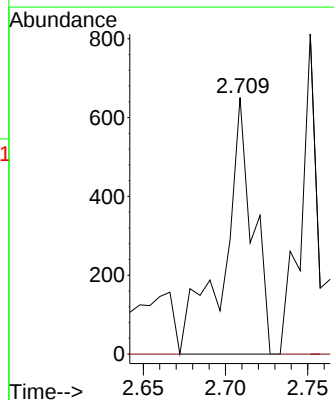
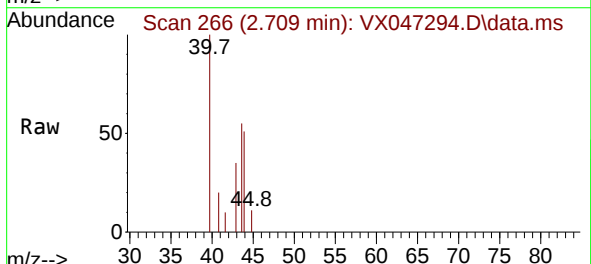
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-N

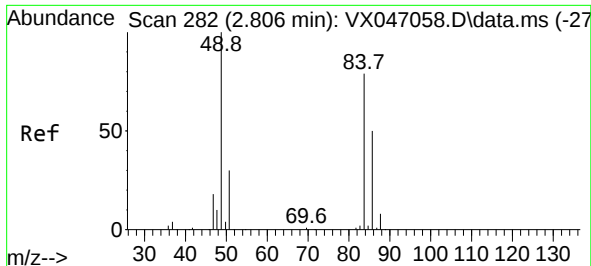
Tgt Ion: 43 Resp: 15400
Ion Ratio Lower Upper
43 100
58 32.6 24.0 36.0



#18
Methyl Acetate
Concen: 0.243 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

Tgt Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#

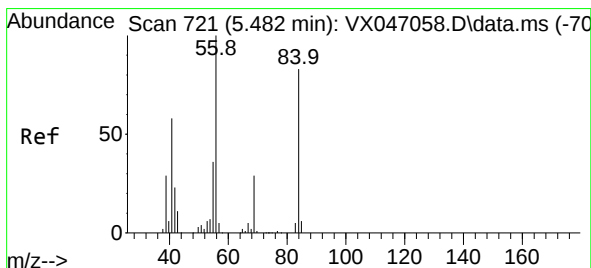
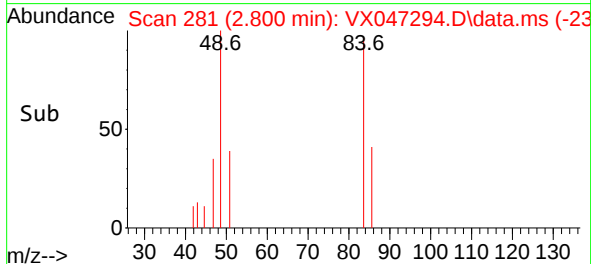
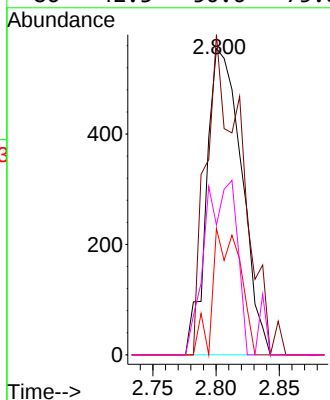
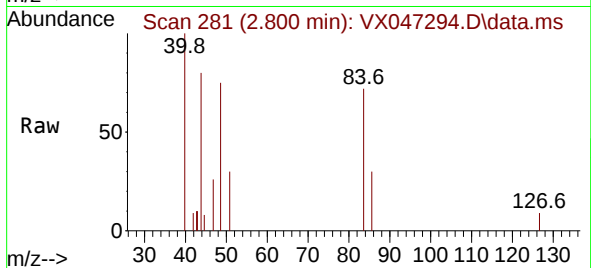




#20
Methylene Chloride
Concen: 0.313 ug/l
RT: 2.800 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

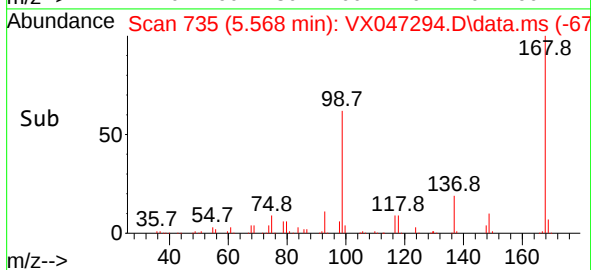
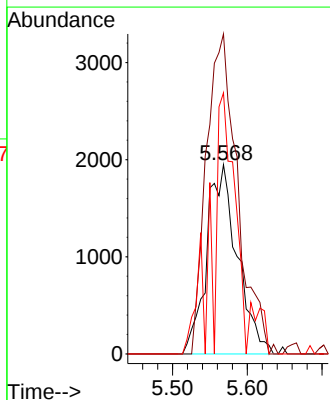
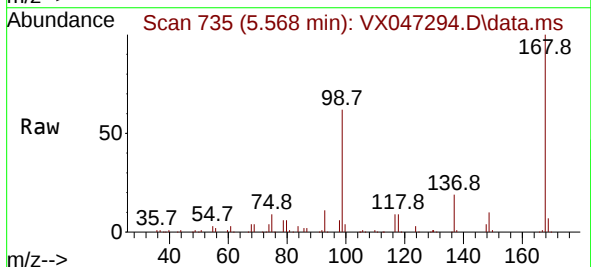
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-N

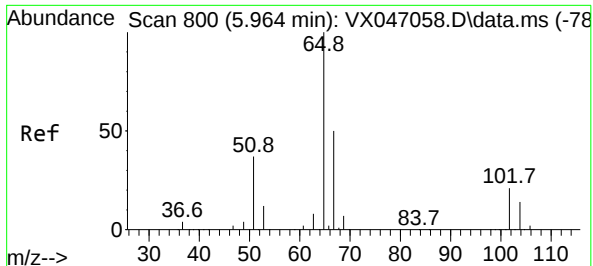
Tgt Ion:	84	Resp:	1069
Ion	Ratio	Lower	Upper
84	100		
49	104.5	101.6	152.4
51	41.3	30.3	45.5
86	42.3	50.6	75.8#



#31
Cyclohexane
Concen: 0.960 ug/l
RT: 5.568 min Scan# 735
Delta R.T. 0.086 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

Tgt Ion:	56	Resp:	5558
Ion	Ratio	Lower	Upper
56	100		
69	169.1	23.3	34.9#
84	138.0	66.5	99.7#

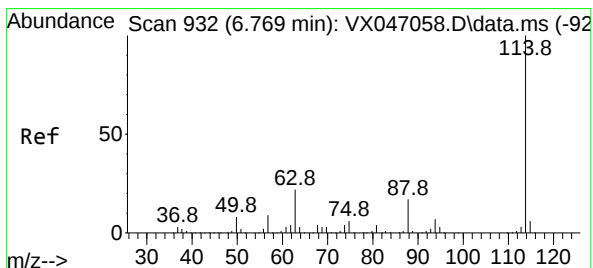
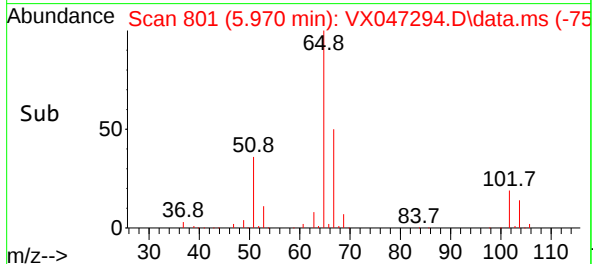
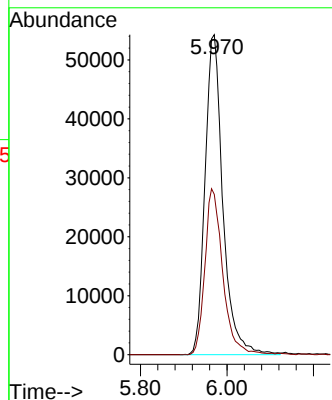
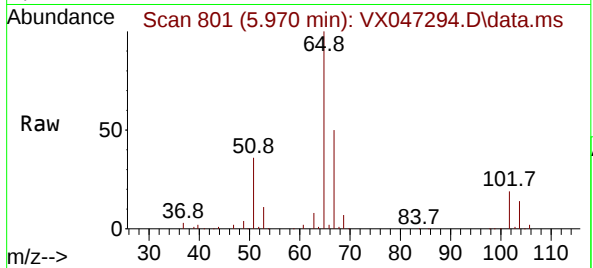




#33
 1,2-Dichloroethane-d4
 Concen: 50.066 ug/l
 RT: 5.970 min Scan# 801
 Delta R.T. 0.006 min
 Lab File: VX047294.D
 Acq: 12 Aug 2025 14:13

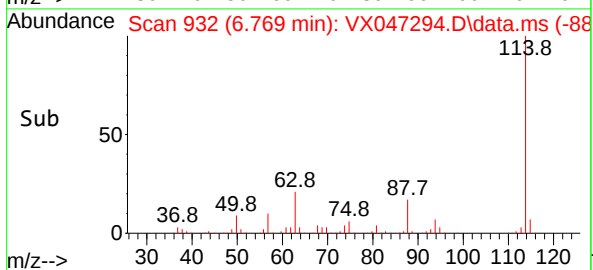
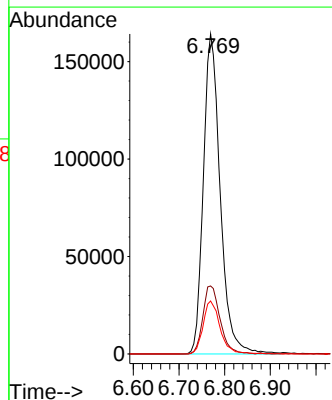
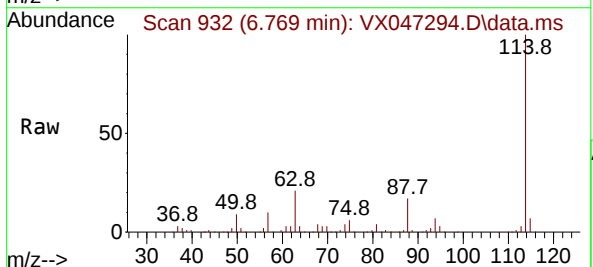
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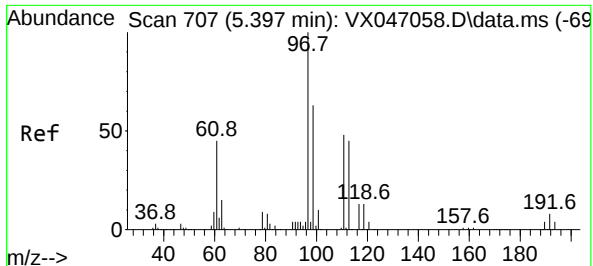
Tgt Ion: 65 Resp: 155083
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.000 min
 Lab File: VX047294.D
 Acq: 12 Aug 2025 14:13

Tgt Ion: 114 Resp: 420068
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.2
 88 16.5 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.581 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047294.D

Acq: 12 Aug 2025 14:13

Instrument :

MSVOA_X

ClientSampleId :

TW-82H-N

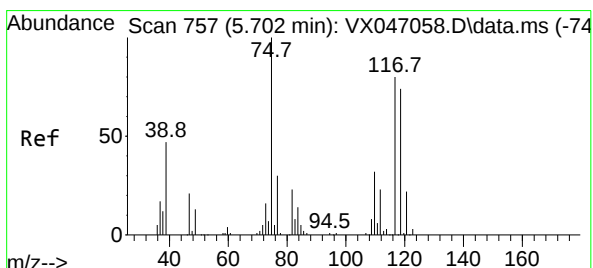
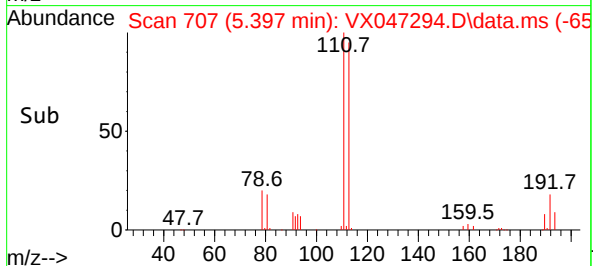
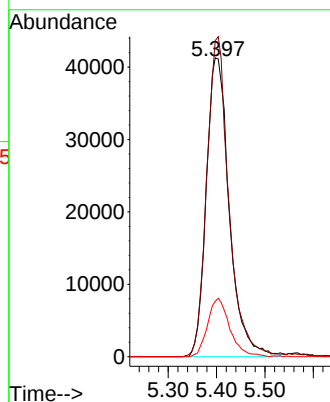
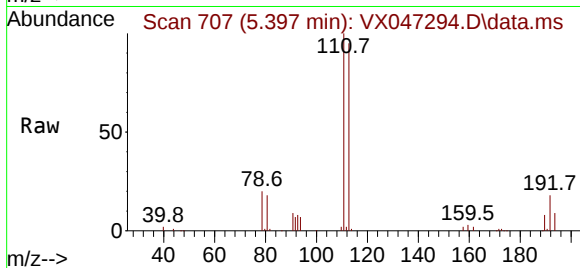
Tgt Ion:113 Resp: 136376

Ion Ratio Lower Upper

113 100

111 102.4 82.6 124.0

192 18.9 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.623 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.134 min

Lab File: VX047294.D

Acq: 12 Aug 2025 14:13

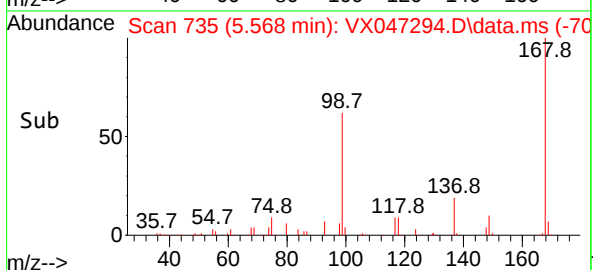
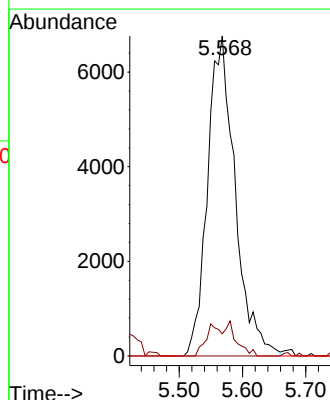
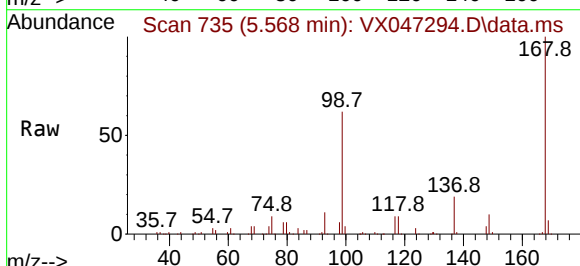
Tgt Ion: 75 Resp: 20440

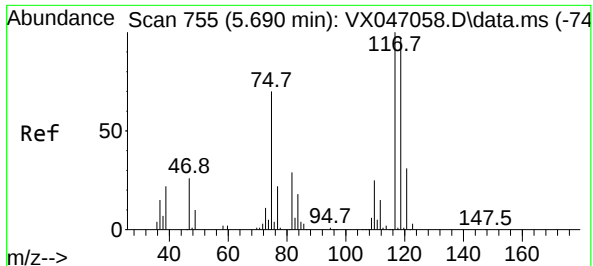
Ion Ratio Lower Upper

75 100

110 5.5 17.2 51.5#

77 0.0 25.1 37.7#

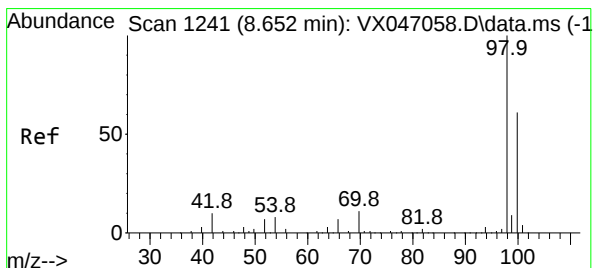
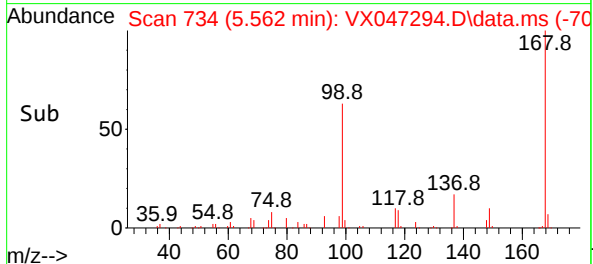
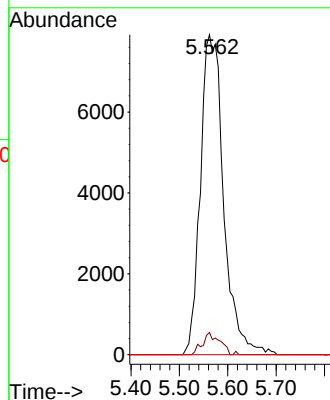
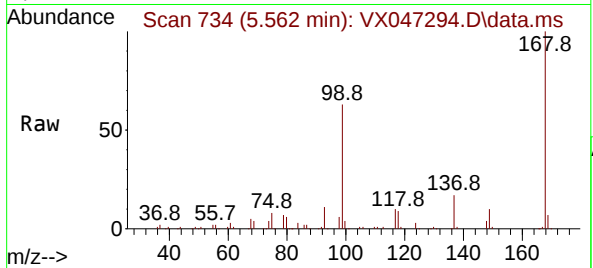




#38
Carbon Tetrachloride
Concen: 5.595 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

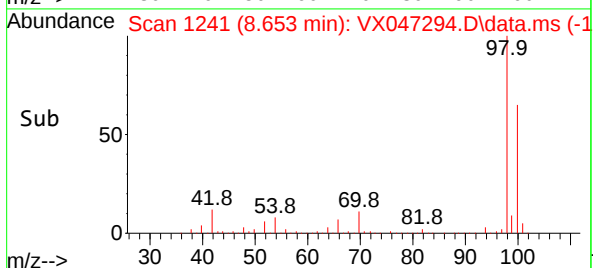
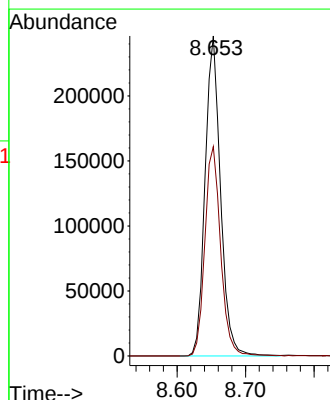
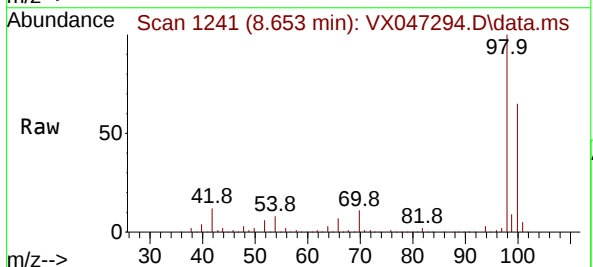
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-N

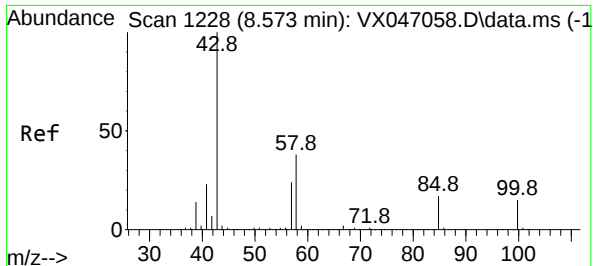
Tgt Ion:117 Resp: 26399
Ion Ratio Lower Upper
117 100
119 7.0 76.6 115.0#
121 0.0 24.4 36.6#



#50
Toluene-d8
Concen: 46.027 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

Tgt Ion: 98 Resp: 386600
Ion Ratio Lower Upper
98 100
100 66.8 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 0.205 ug/l

RT: 8.586 min Scan# 11

Delta R.T. 0.013 min

Lab File: VX047294.D

Acq: 12 Aug 2025 14:13

Instrument :

MSVOA_X

ClientSampleId :

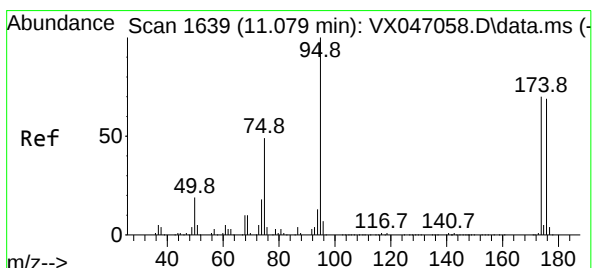
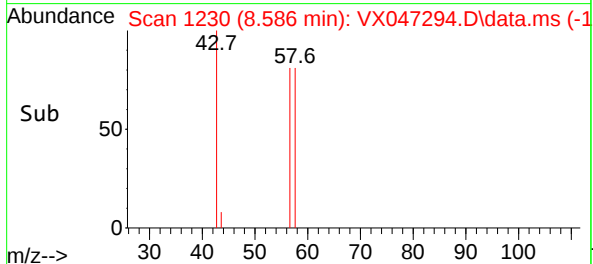
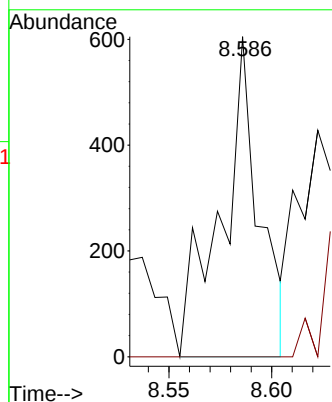
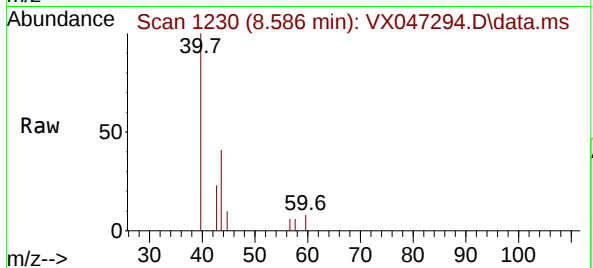
TW-82H-N

Tgt Ion: 43 Resp: 773

Ion Ratio Lower Upper

43 100

58 0.0 30.6 45.8#



#62

4-Bromofluorobenzene

Concen: 51.513 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047294.D

Acq: 12 Aug 2025 14:13

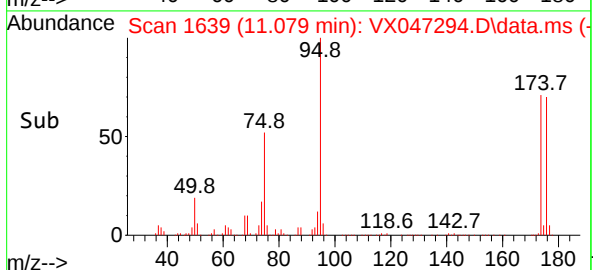
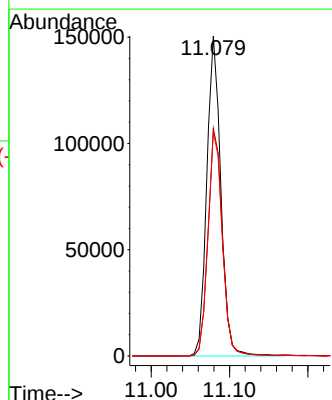
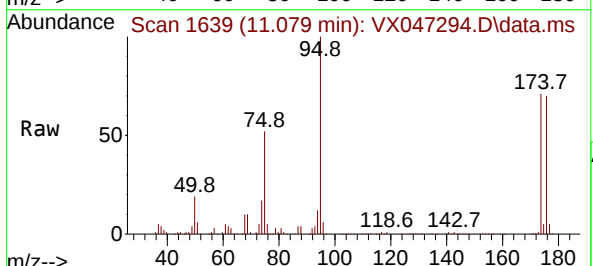
Tgt Ion: 95 Resp: 186460

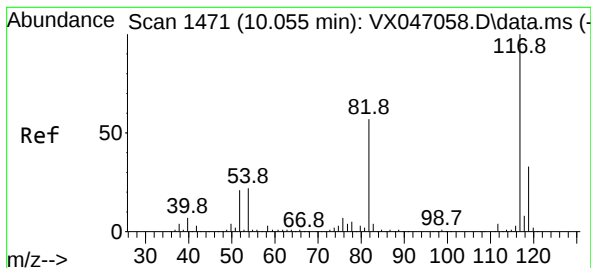
Ion Ratio Lower Upper

95 100

174 72.9 0.0 144.6

176 72.0 0.0 139.6

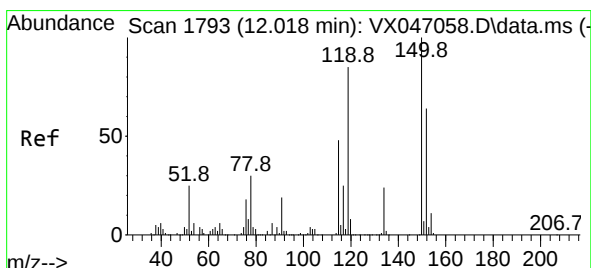
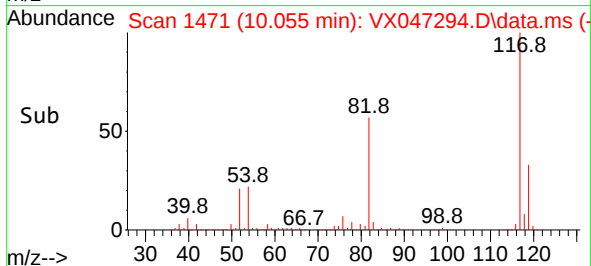
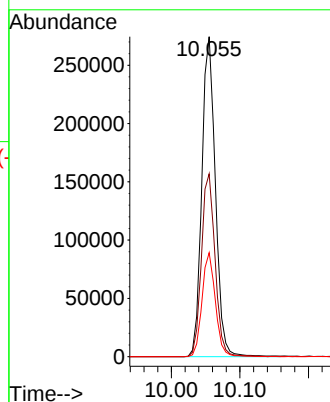
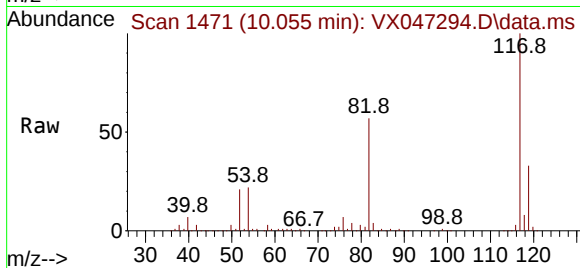




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

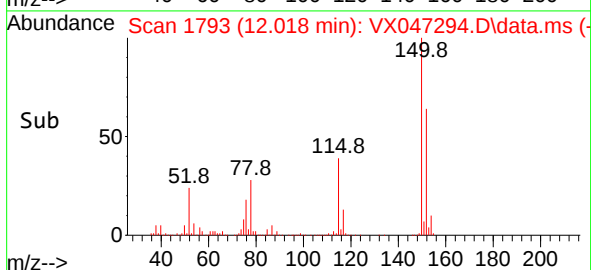
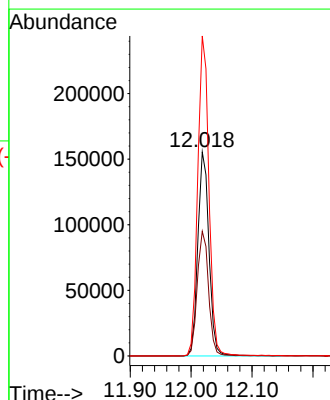
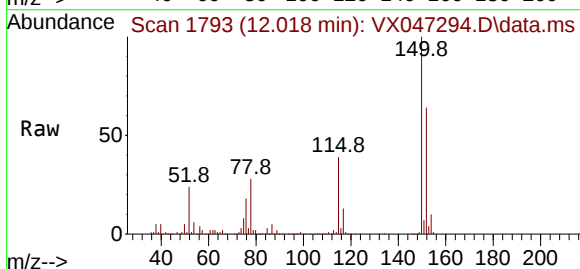
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-N

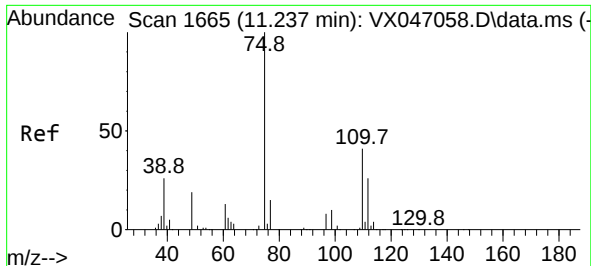
Tgt Ion:117 Resp: 379296
Ion Ratio Lower Upper
117 100
82 57.2 45.4 68.2
119 32.5 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

Tgt Ion:152 Resp: 196916
Ion Ratio Lower Upper
152 100
115 62.2 45.6 136.7
150 157.3 0.0 354.6

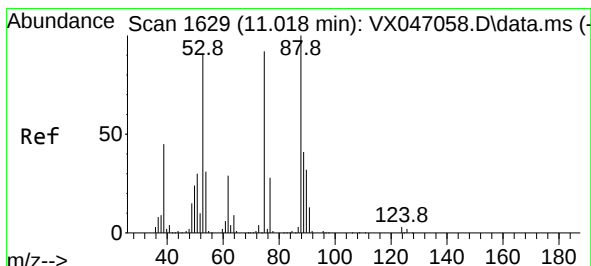
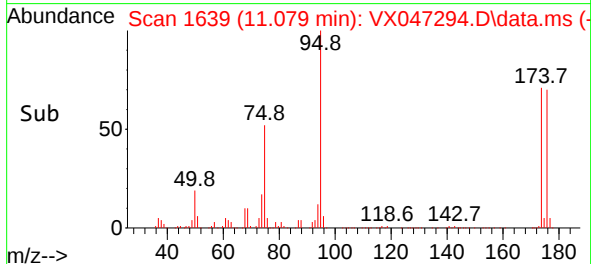
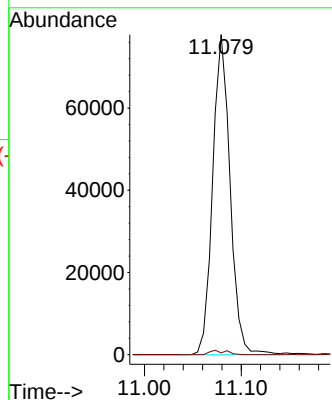
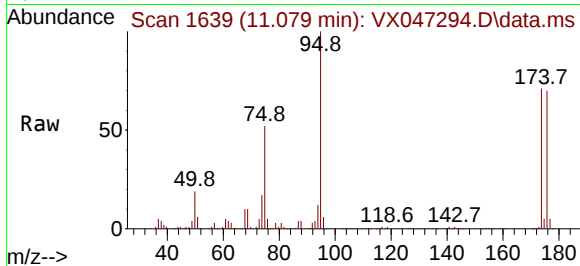




#76
1,2,3-Trichloropropane
Concen: 26.702 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

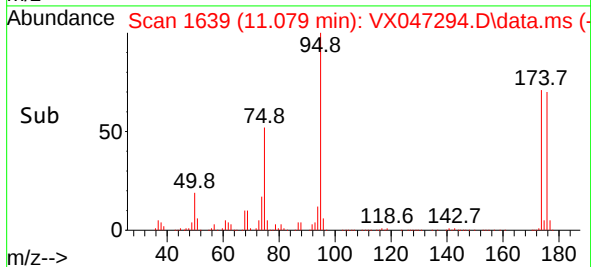
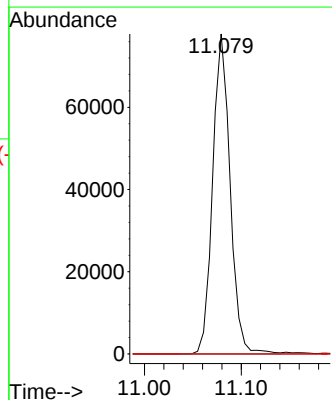
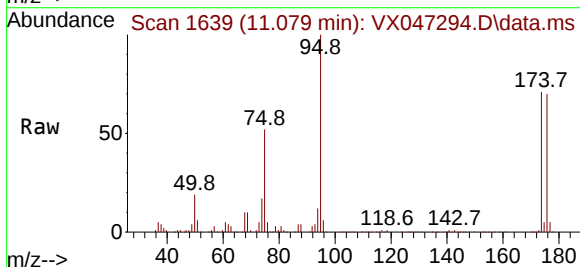
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-N

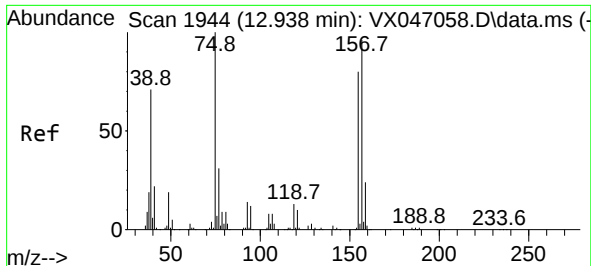
Tgt Ion: 75 Resp: 97324
Ion Ratio Lower Upper
75 100
77 1.3 21.6 65.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.795 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047294.D
Acq: 12 Aug 2025 14:13

Tgt Ion: 75 Resp: 97324
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.338 ug/l

RT: 12.756 min Scan# 1944

Delta R.T. -0.183 min

Lab File: VX047294.D

Acq: 12 Aug 2025 14:13

Instrument :

MSVOA_X

ClientSampleId :

TW-82H-N

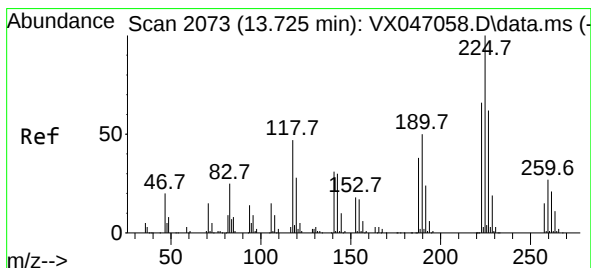
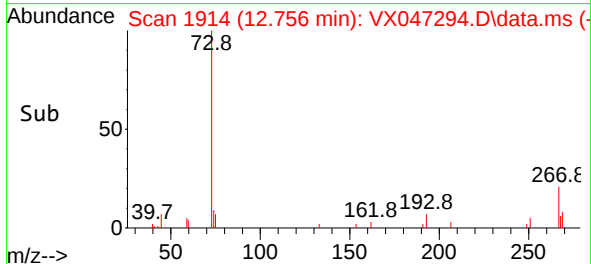
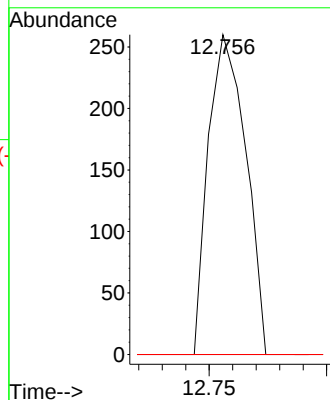
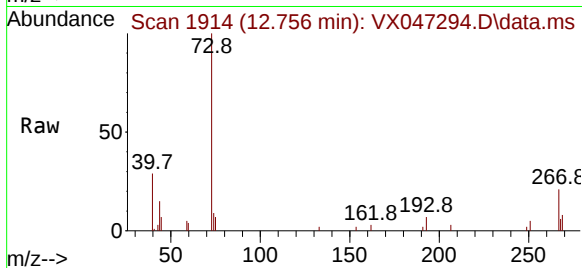
Tgt Ion: 75 Resp: 288

Ion Ratio Lower Upper

75 100

155 0.0 41.3 124.1#

157 0.0 52.8 158.3#



#94

Hexachlorobutadiene

Concen: 0.309 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX047294.D

Acq: 12 Aug 2025 14:13

Tgt Ion: 225 Resp: 470

Ion Ratio Lower Upper

225 100

223 92.8 31.6 95.0

227 71.1 32.9 98.6

