

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061825\
 Data File : VX046755.D
 Acq On : 18 Jun 2025 19:40
 Operator : JC/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VIBLK

Quant Time: Jun 19 01:31:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 18 03:09:16 2025
 Response via : Initial Calibration

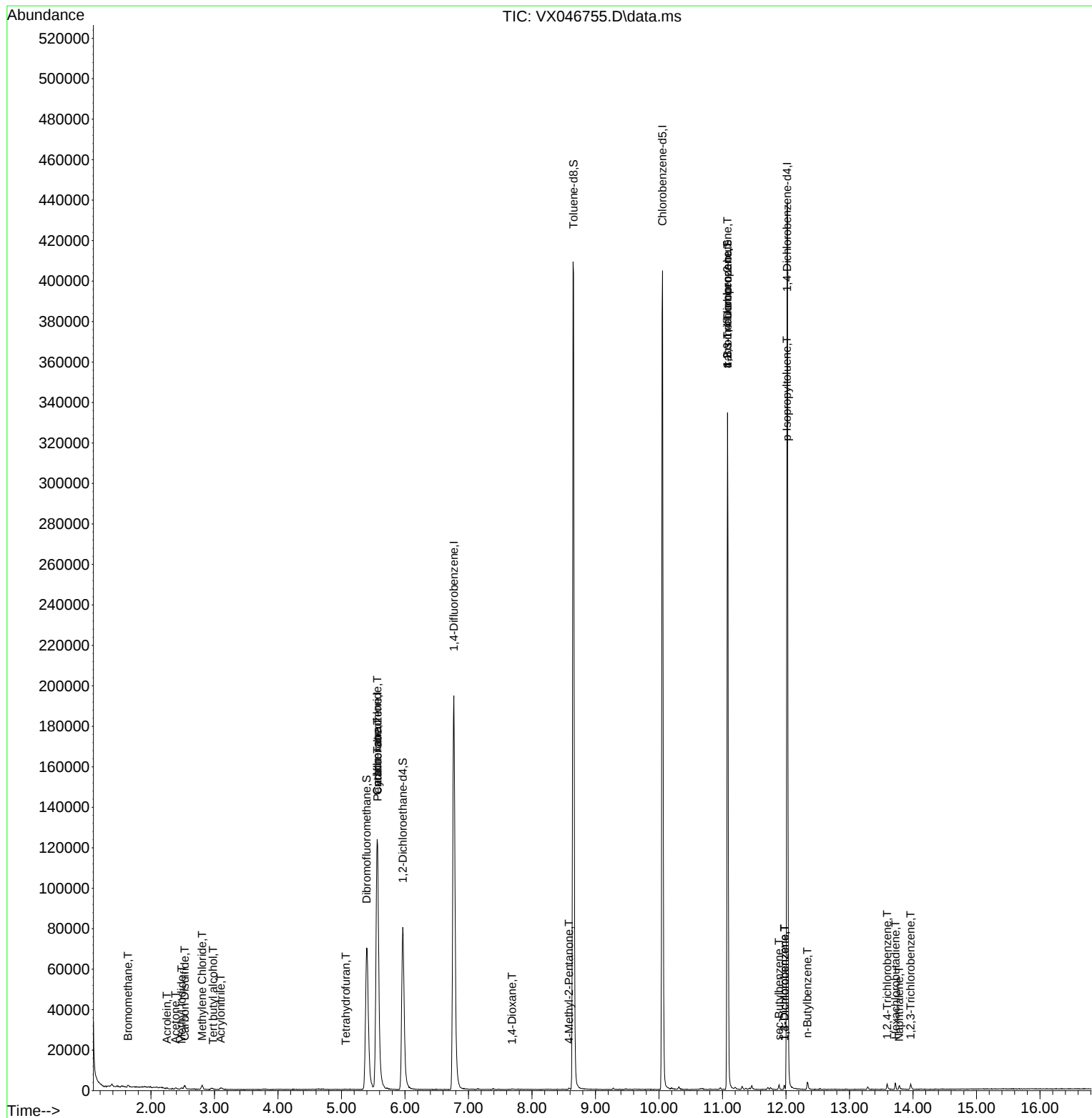
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	127721	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	211635	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	187903	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	88701	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	83296	47.150	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.300%
35) Dibromofluoromethane	5.398	113	68054	48.602	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.200%
50) Toluene-d8	8.653	98	253622	50.414	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.820%
62) 4-Bromofluorobenzene	11.079	95	90346	48.177	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.360%
Target Compounds						
					Qvalue	
5) Bromomethane	1.636	94	411	0.465	ug/l #	80
10) Methyl Iodide	2.483	142	1191	4.928	ug/l #	92
11) Tert butyl alcohol	2.977	59	388	2.447	ug/l #	72
13) Acrolein	2.252	56	122	0.528	ug/l #	80
15) Acrylonitrile	3.099	53	560	0.785	ug/l #	84
16) Acetone	2.386	43	893	1.516	ug/l #	79
17) Carbon Disulfide	2.532	76	2200	0.516	ug/l	98
20) Methylene Chloride	2.807	84	1091	0.666	ug/l #	94
29) Tetrahydrofuran	5.068	42	237	0.440	ug/l #	34
31) Cyclohexane	5.562	56	2752	1.040	ug/l #	1
38) Carbon Tetrachloride	5.562	117	13231	6.032	ug/l #	17
49) 1,4-Dioxane	7.684	88	175	36.180	ug/l #	64
51) 4-Methyl-2-Pentanone	8.580	43	448	0.257	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	46161	28.414	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.079	75	46161	80.315	ug/l #	7
85) sec-Butylbenzene	11.890	105	1456	0.208	ug/l	97
86) p-Isopropyltoluene	12.012	119	1423	0.240	ug/l	91
87) 1,3-Dichlorobenzene	11.976	146	744	0.243	ug/l	92
88) 1,4-Dichlorobenzene	11.976	146	744	0.236	ug/l	93
89) n-Butylbenzene	12.335	91	1646	0.293	ug/l	94
93) 1,2,4-Trichlorobenzene	13.591	180	938	0.461	ug/l	95
94) Hexachlorobutadiene	13.725	225	556	0.649	ug/l	90
95) Naphthalene	13.780	128	1837	0.317	ug/l #	95
96) 1,2,3-Trichlorobenzene	13.963	180	951	0.488	ug/l	90

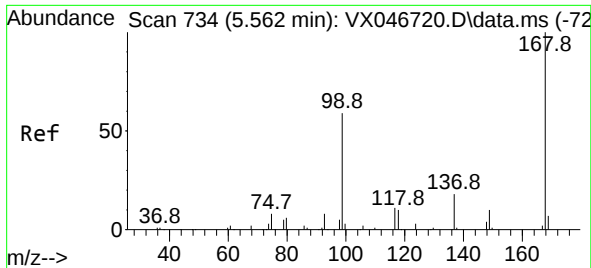
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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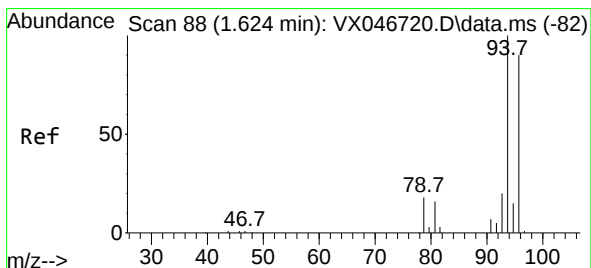
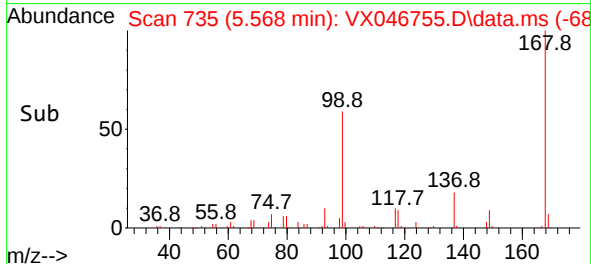
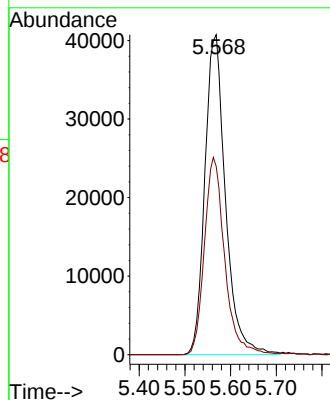
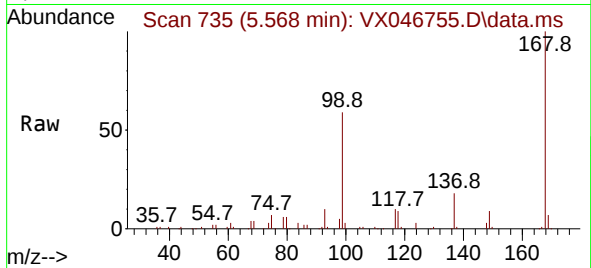




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

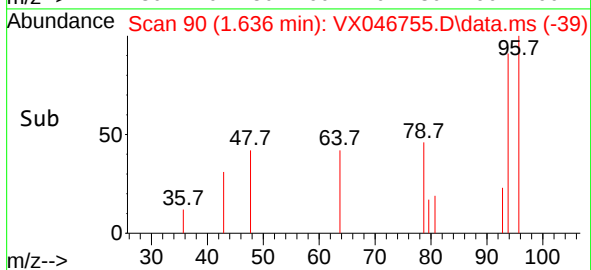
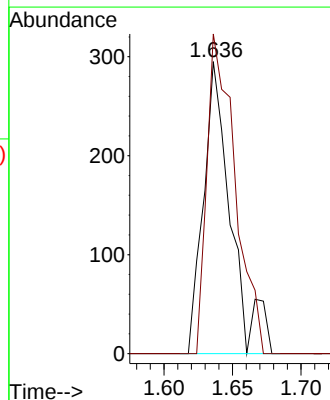
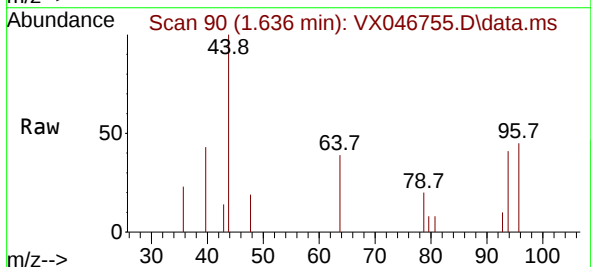
Instrument :
MSVOA_X
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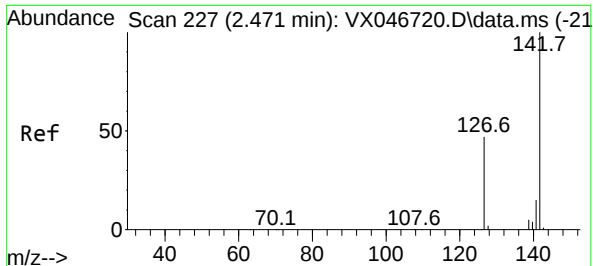
Tgt Ion:168 Resp: 127721
Ion Ratio Lower Upper
168 100
99 58.8 48.5 72.7



#5
Bromomethane
Concen: 0.465 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.012 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 94 Resp: 411
Ion Ratio Lower Upper
94 100
96 109.5 72.3 108.5#

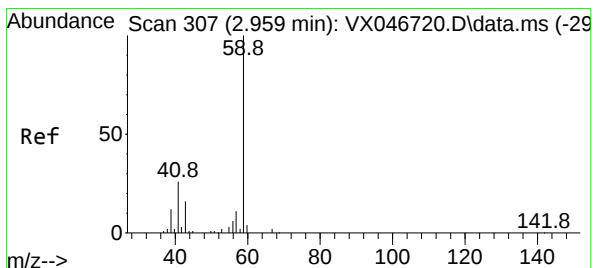
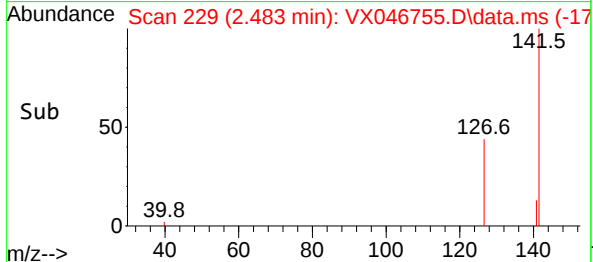
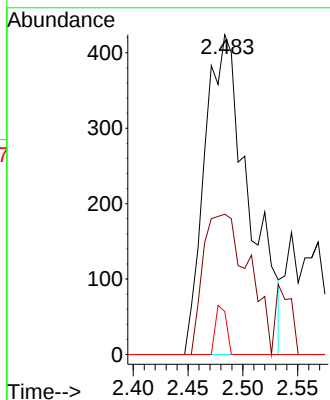
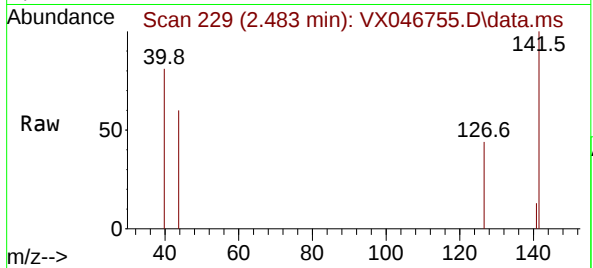




#10
Methyl Iodide
Concen: 4.928 ug/l
RT: 2.483 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

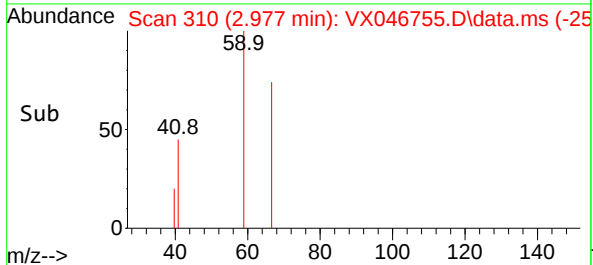
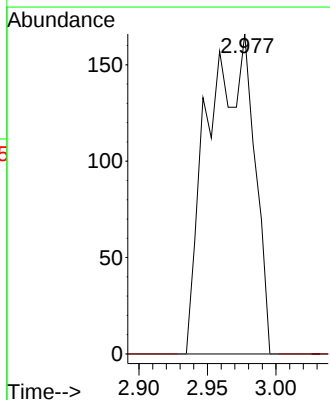
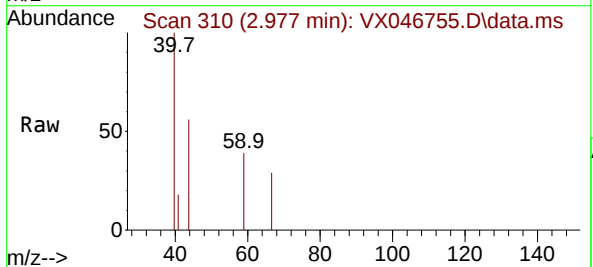
Instrument :
MSVOA_X
ClientSampleId :
VIBLK

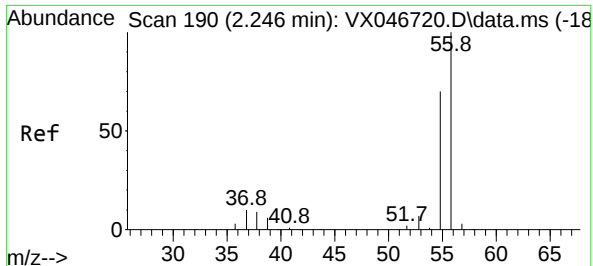
Tgt Ion:142 Resp: 1191
Ion Ratio Lower Upper
142 100
127 44.7 37.0 55.6
141 3.8 11.5 17.3#



#11
Tert butyl alcohol
Concen: 2.447 ug/l
RT: 2.977 min Scan# 310
Delta R.T. 0.018 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 59 Resp: 388
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

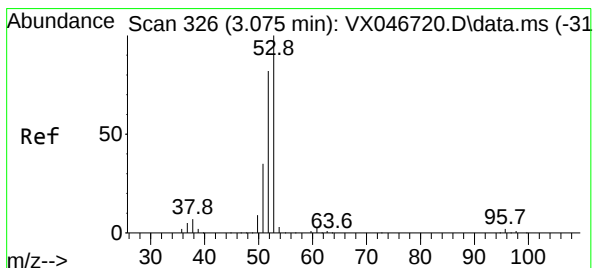
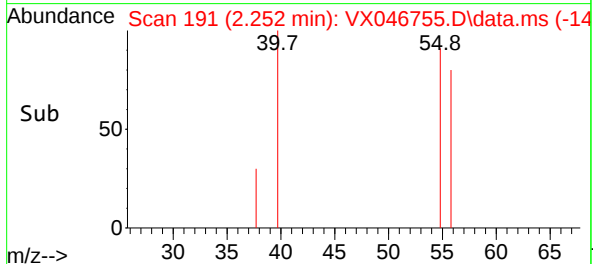
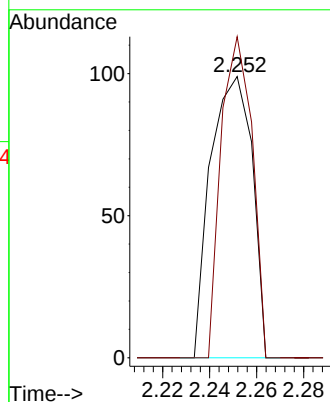
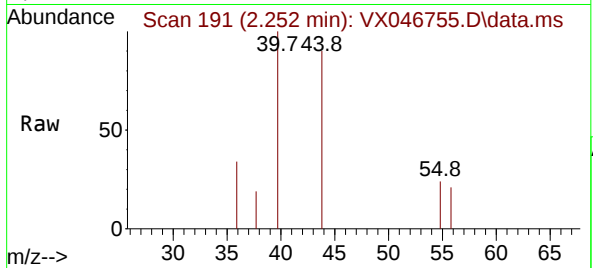




#13
Acrolein
Concen: 0.528 ug/l
RT: 2.252 min Scan# 19
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

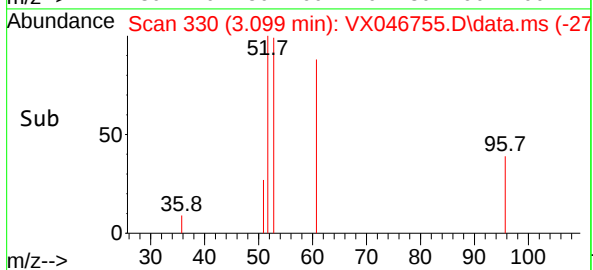
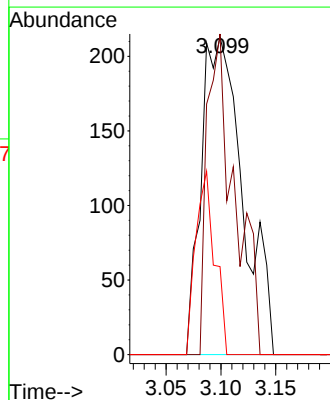
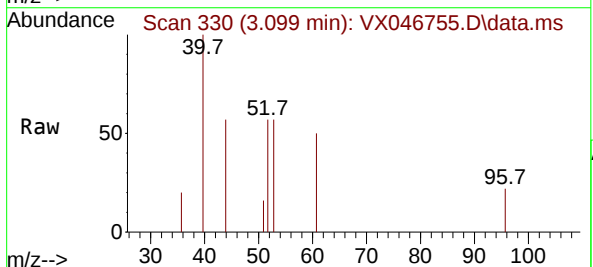
Instrument :
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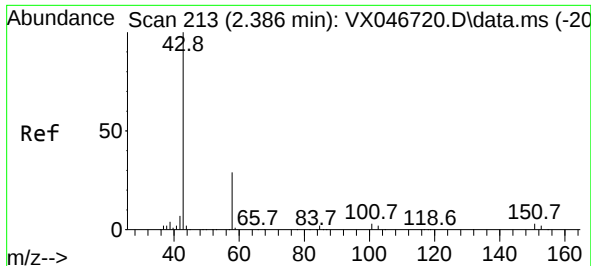
Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 85.2 55.2 82.8#



#15
Acrylonitrile
Concen: 0.785 ug/l
RT: 3.099 min Scan# 330
Delta R.T. 0.024 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 53 Resp: 560
Ion Ratio Lower Upper
53 100
52 67.3 65.1 97.7
51 26.6 28.9 43.3#

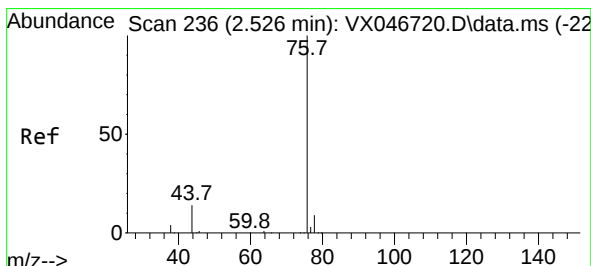
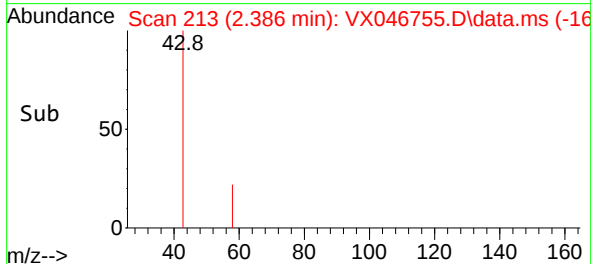
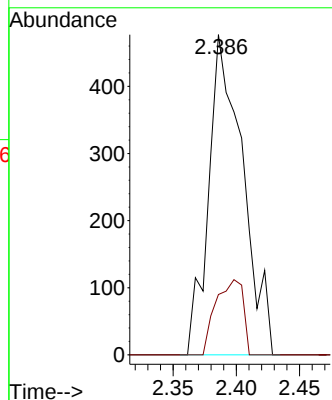
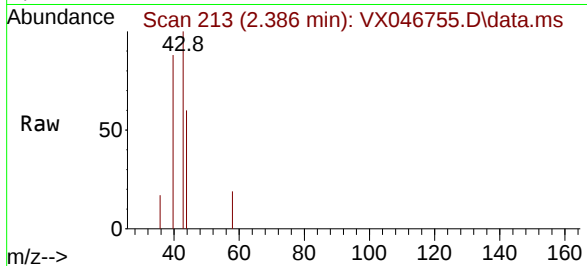




#16
Acetone
Concen: 1.516 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

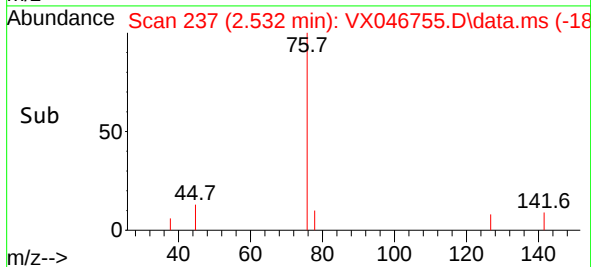
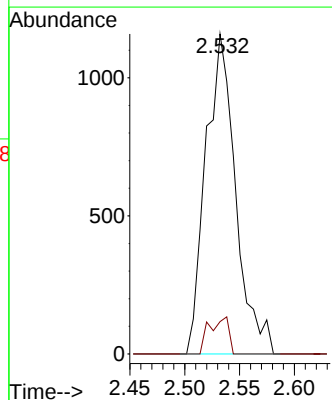
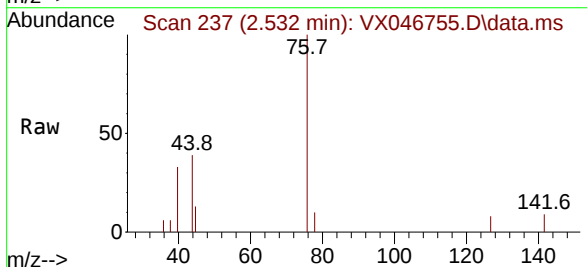
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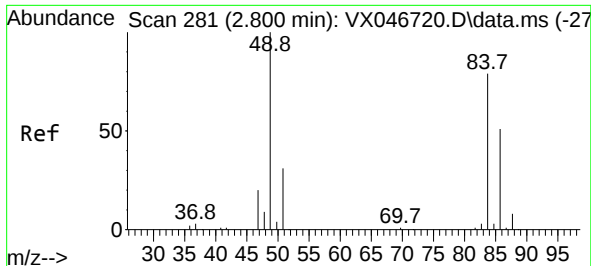
Tgt Ion: 43 Resp: 893
Ion Ratio Lower Upper
43 100
58 18.9 24.5 36.7#



#17
Carbon Disulfide
Concen: 0.516 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 76 Resp: 2200
Ion Ratio Lower Upper
76 100
78 10.1 7.5 11.3

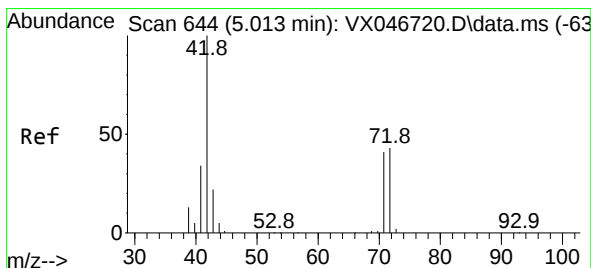
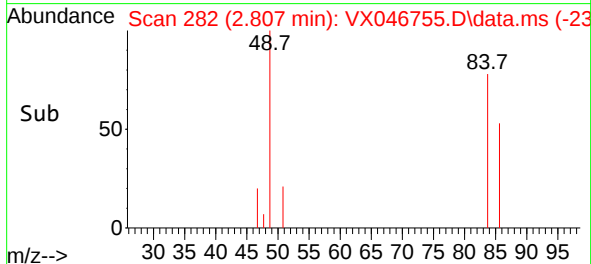
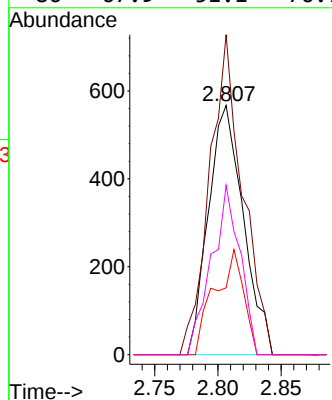
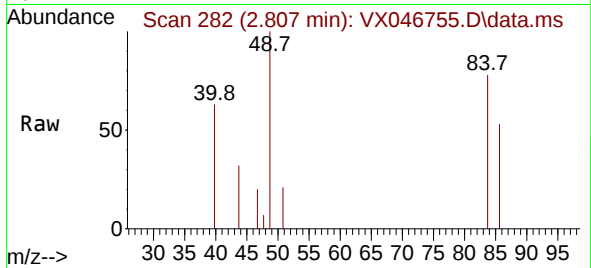




#20
Methylene Chloride
Concen: 0.666 ug/l
RT: 2.807 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

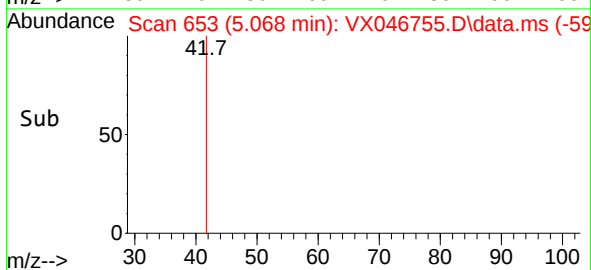
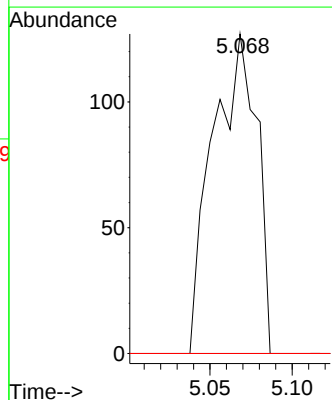
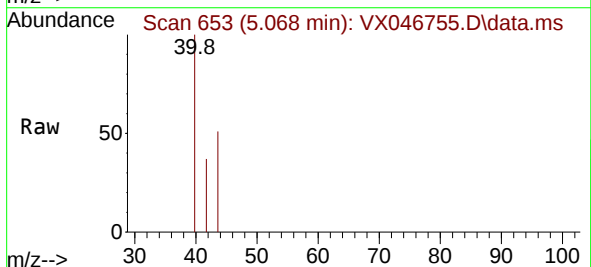
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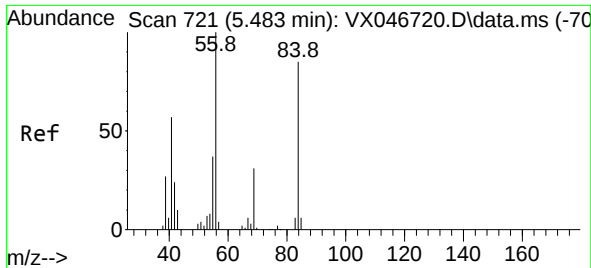
Tgt Ion: 84	Resp: 1091
Ion Ratio	Lower Upper
84	100
49	128.4 101.3 151.9
51	26.8 31.0 46.6#
86	67.9 51.1 76.7



#29
Tetrahydrofuran
Concen: 0.440 ug/l
RT: 5.068 min Scan# 653
Delta R.T. 0.055 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 42	Resp: 237
Ion Ratio	Lower Upper
42	100
72	0.0 34.9 52.3#
71	0.0 32.2 48.2#

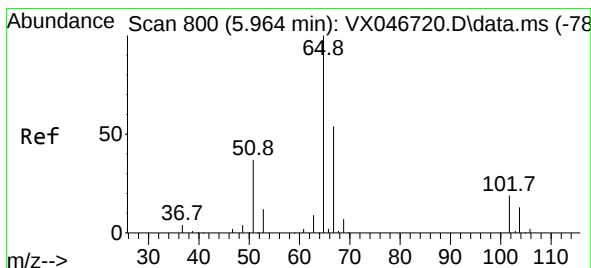
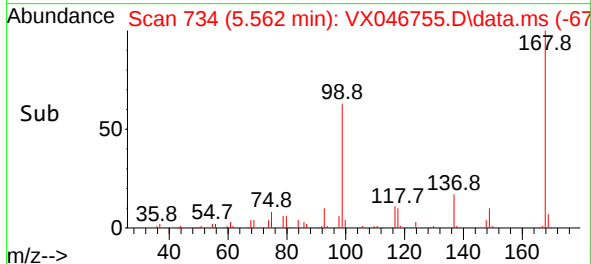
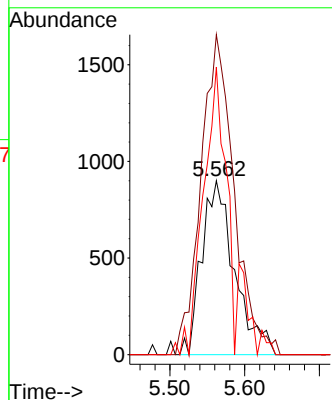
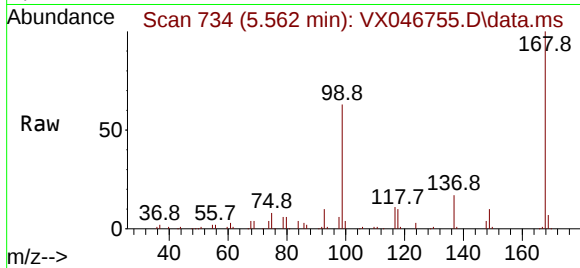




#31
Cyclohexane
Concen: 1.040 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.079 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

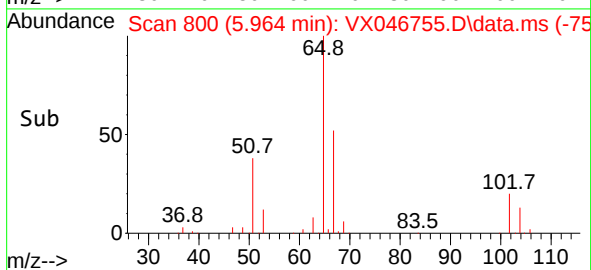
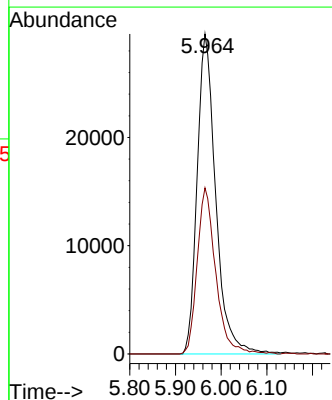
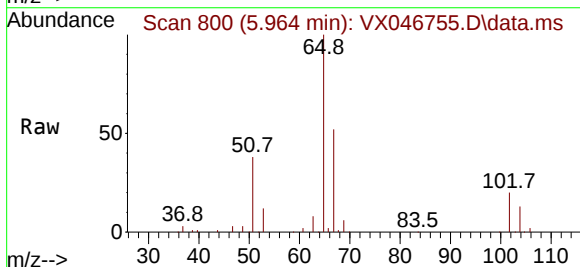
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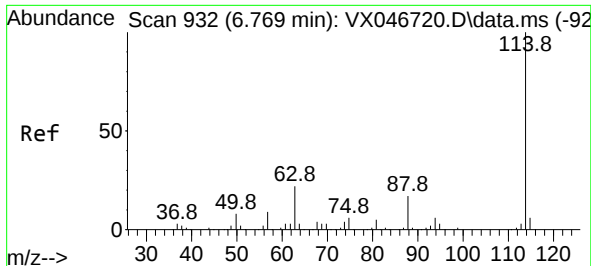
Tgt Ion: 56 Resp: 2752
Ion Ratio Lower Upper
56 100
69 184.0 24.8 37.2#
84 165.4 68.2 102.2#



#33
1,2-Dichloroethane-d4
Concen: 47.150 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 65 Resp: 83296
Ion Ratio Lower Upper
65 100
67 51.7 0.0 105.4

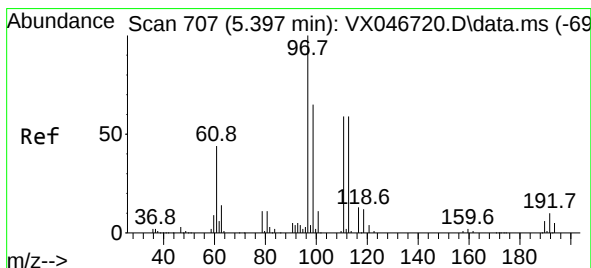
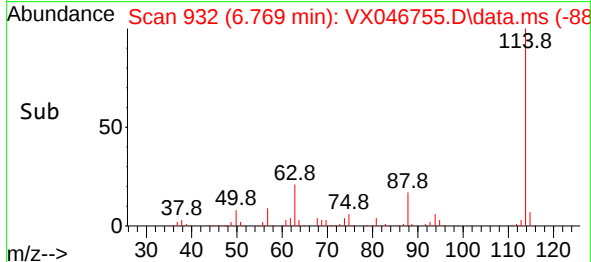
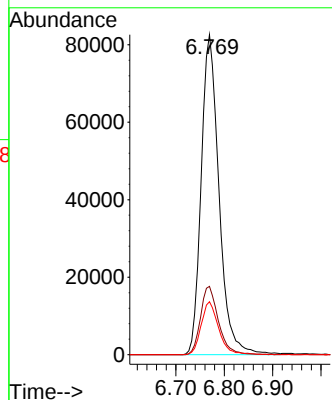
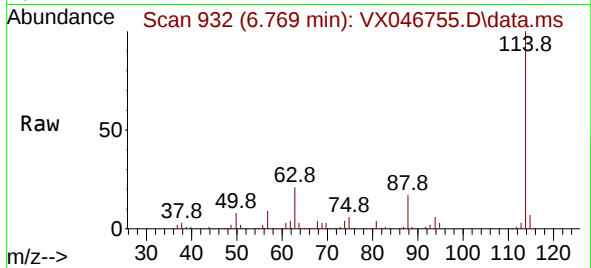




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: VX046755.D
 Acq: 18 Jun 2025 19:40

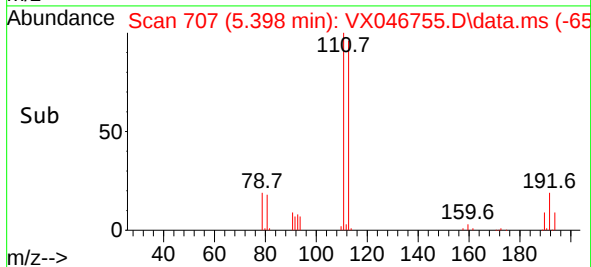
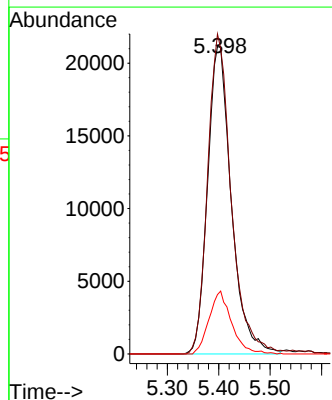
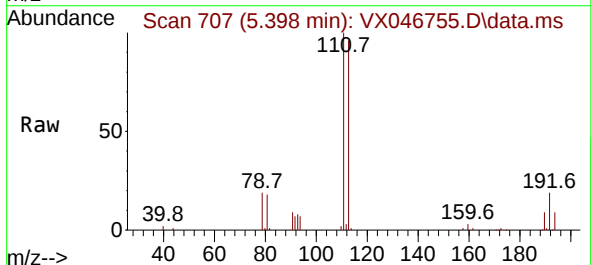
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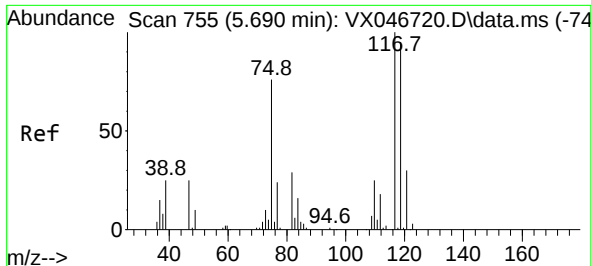
Tgt Ion:114 Resp: 211635
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 44.2
 88 16.6 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 48.602 ug/l
 RT: 5.398 min Scan# 707
 Delta R.T. 0.000 min
 Lab File: VX046755.D
 Acq: 18 Jun 2025 19:40

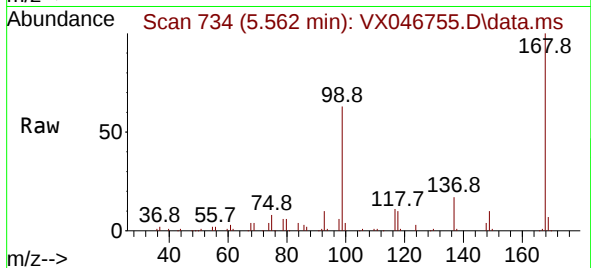
Tgt Ion:113 Resp: 68054
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.0 123.0
 192 19.4 15.3 22.9



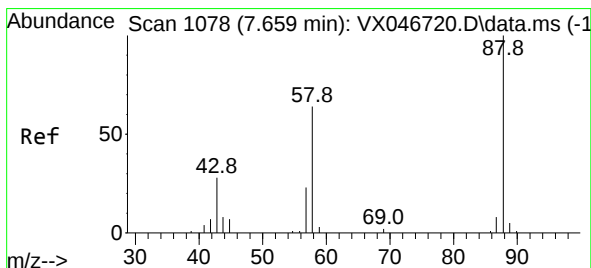
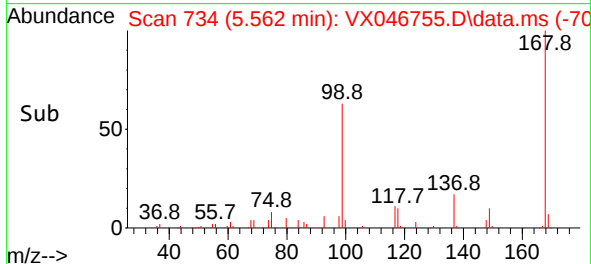
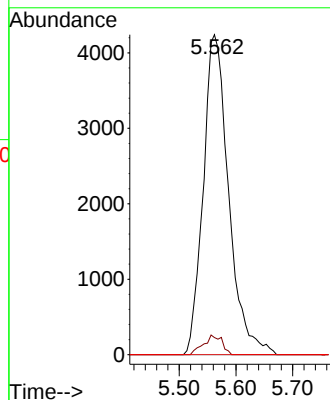


#38
Carbon Tetrachloride
Concen: 6.032 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VIBLK

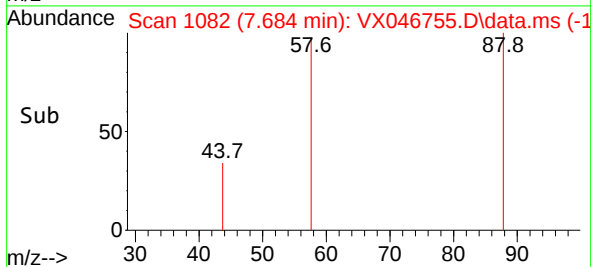
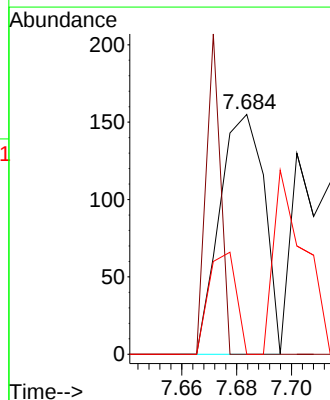
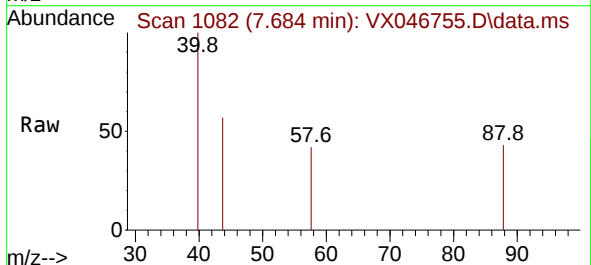


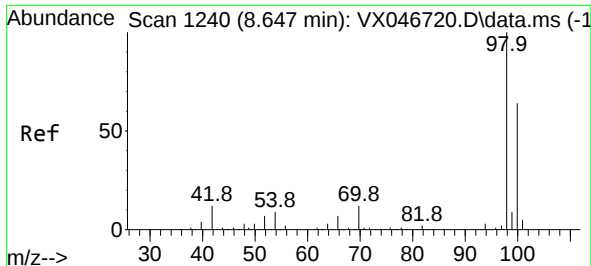
Tgt Ion:117 Resp: 13231
Ion Ratio Lower Upper
117 100
119 5.4 75.2 112.8#
121 0.0 24.1 36.1#



#49
1,4-Dioxane
Concen: 36.180 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.025 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 88 Resp: 175
Ion Ratio Lower Upper
88 100
43 43.4 31.2 46.8
58 26.3 54.7 82.1#

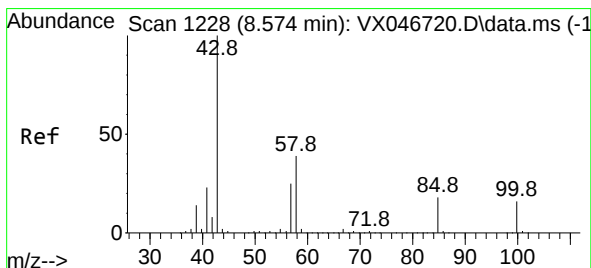
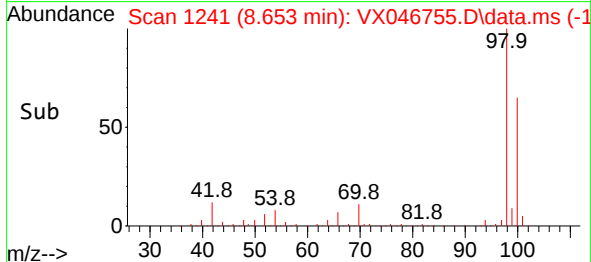
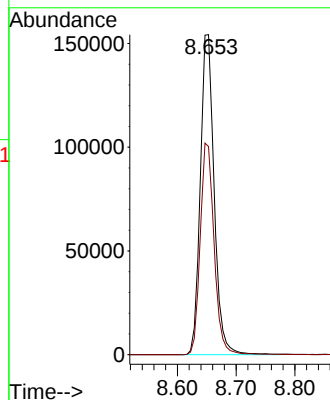
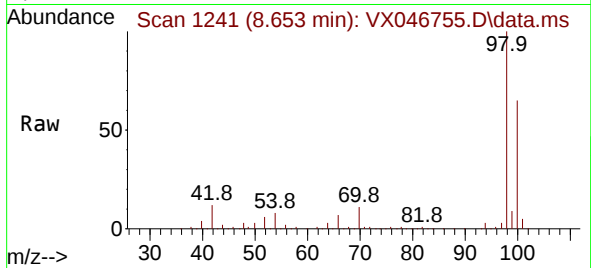




#50
Toluene-d8
Concen: 50.414 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

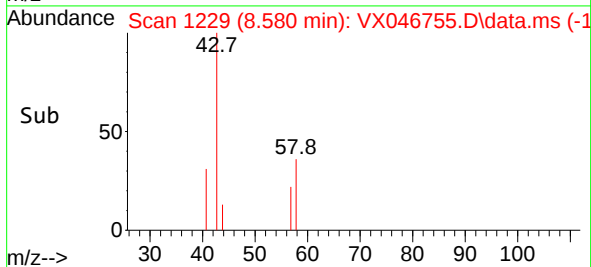
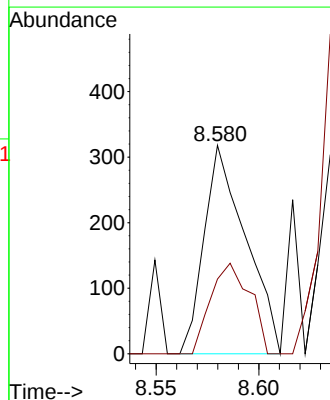
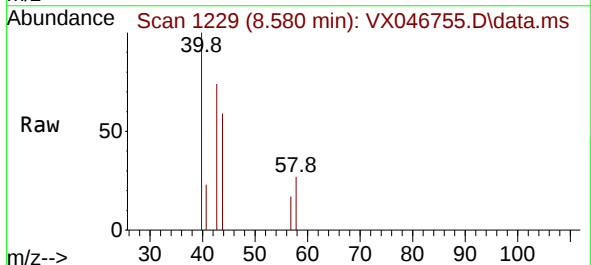
Instrument :
MSVOA_X
ClientSampleId :
VIBLK

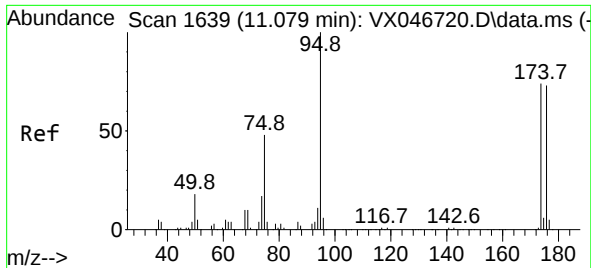
Tgt Ion: 98 Resp: 253622
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.257 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 43 Resp: 448
Ion Ratio Lower Upper
43 100
58 40.8 30.8 46.2

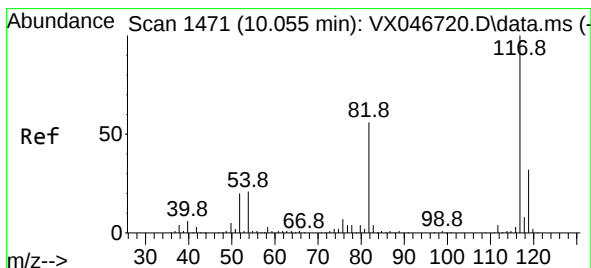
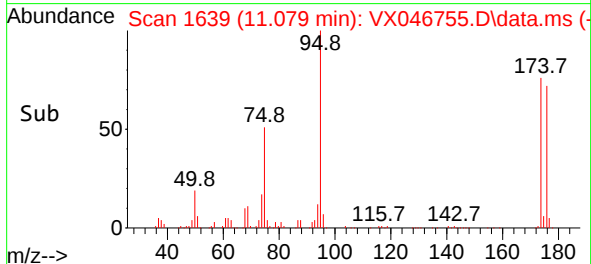
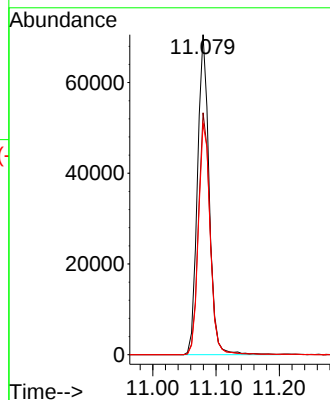
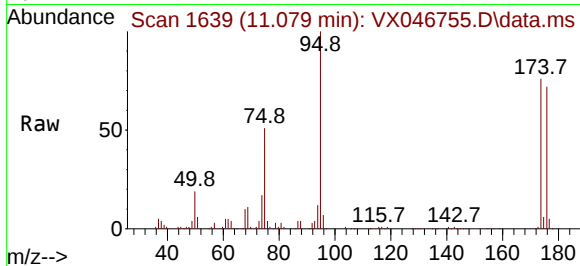




#62
4-Bromofluorobenzene
Concen: 48.177 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

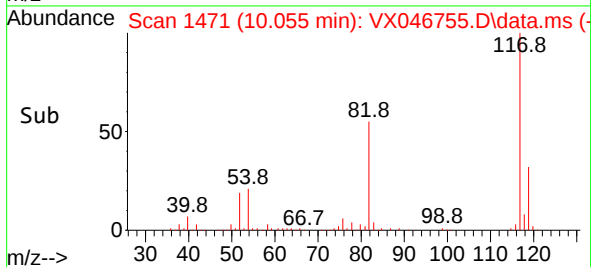
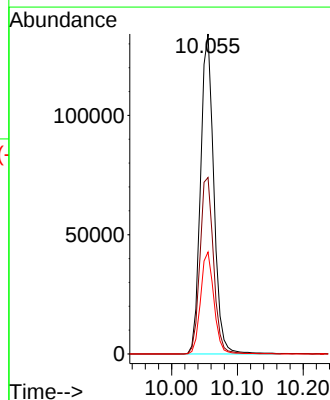
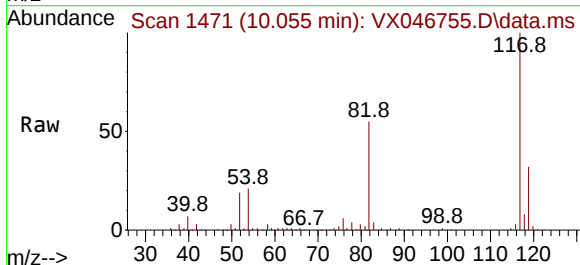
Instrument :
MSVOA_X
ClientSampleId :
VIBLK

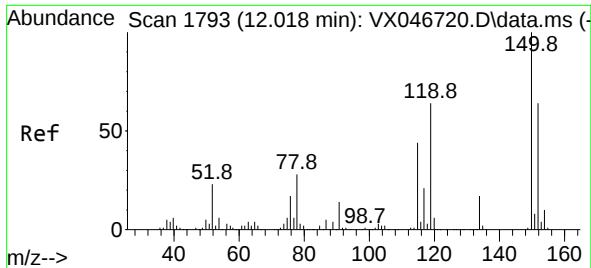
Tgt Ion: 95 Resp: 90346
Ion Ratio Lower Upper
95 100
174 76.0 0.0 150.4
176 73.2 0.0 145.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 117 Resp: 187903
Ion Ratio Lower Upper
117 100
82 55.2 44.6 66.8
119 31.9 25.8 38.8

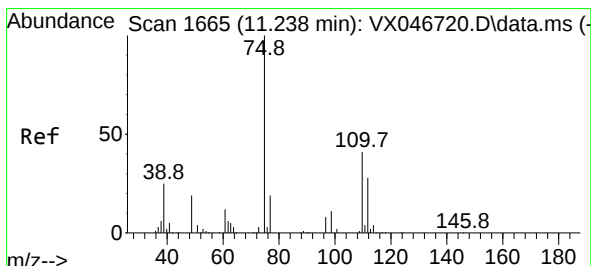
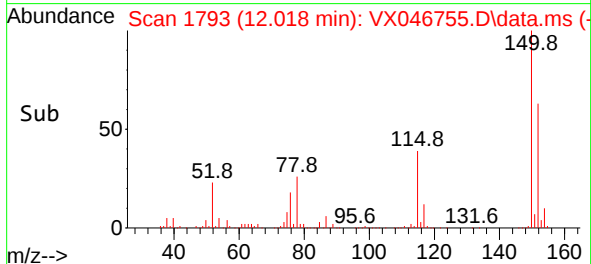
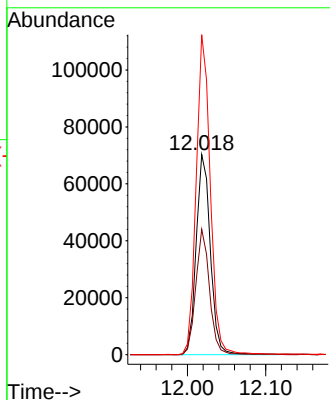
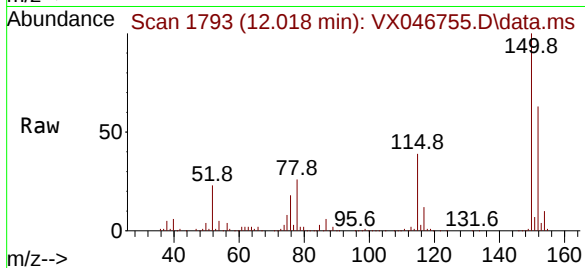




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX046755.D
 Acq: 18 Jun 2025 19:40

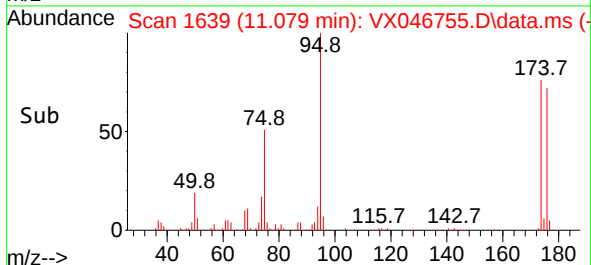
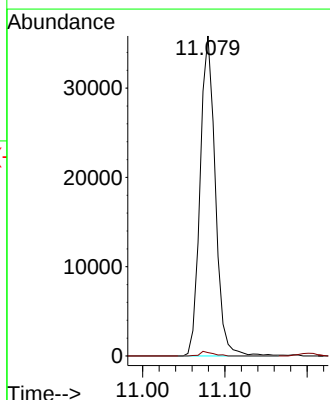
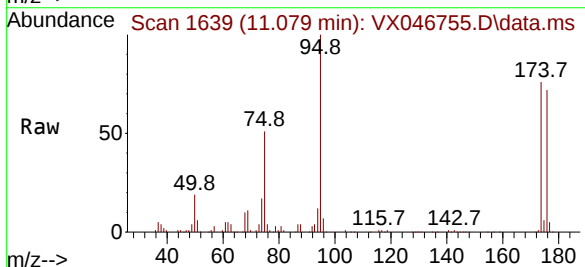
Instrument :
 MSVOA_X
 ClientSampleId :
 VIBLK

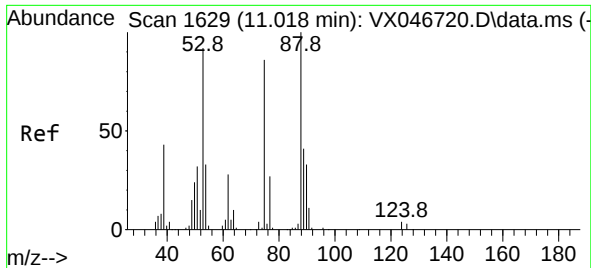
Tgt Ion:152 Resp: 88701
 Ion Ratio Lower Upper
 152 100
 115 60.7 43.2 129.6
 150 159.5 0.0 346.8



#76
 1,2,3-Trichloropropane
 Concen: 28.414 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX046755.D
 Acq: 18 Jun 2025 19:40

Tgt Ion: 75 Resp: 46161
 Ion Ratio Lower Upper
 75 100
 77 1.2 18.5 55.5#

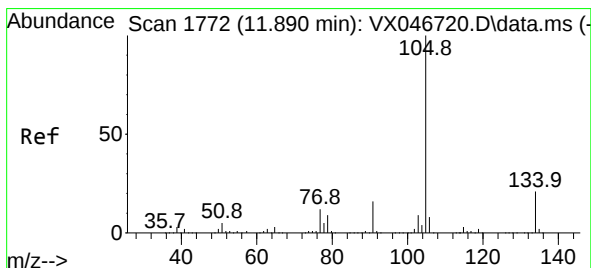
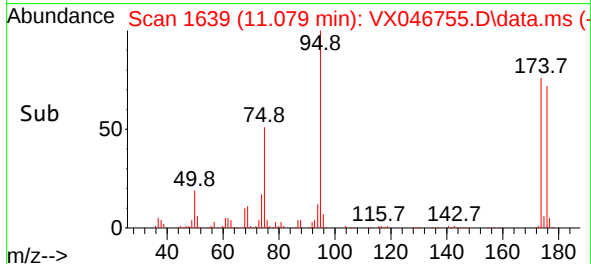
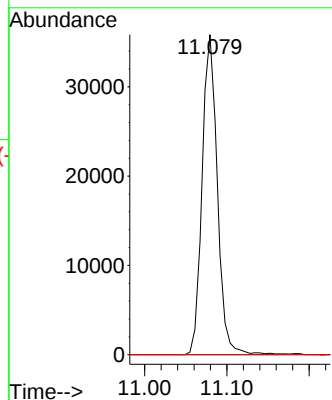
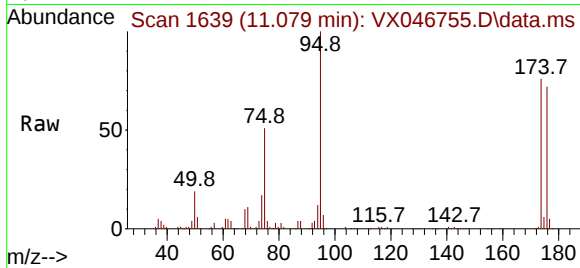




#81
trans-1,4-Dichloro-2-butene
Concen: 80.315 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

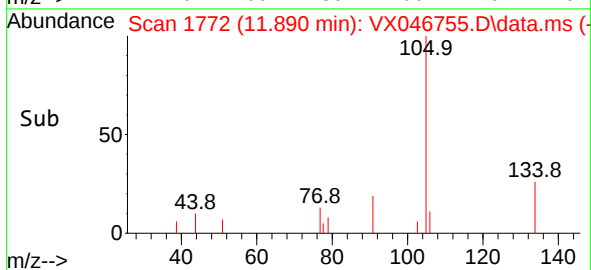
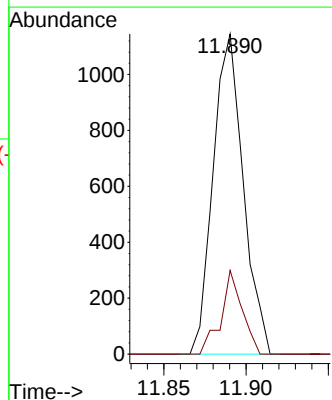
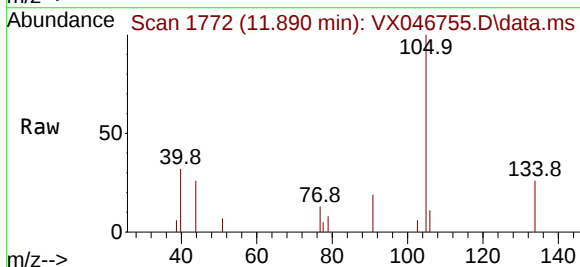
Instrument :
MSVOA_X
ClientSampleId :
VIBLK

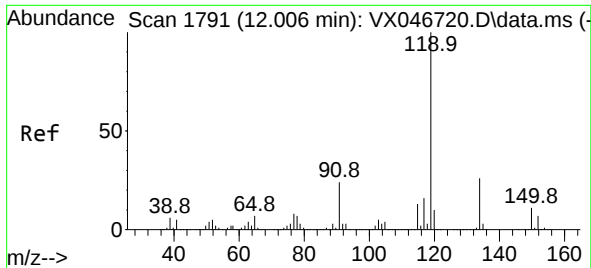
Tgt Ion: 75 Resp: 46161
Ion Ratio Lower Upper
75 100
53 0.0 86.8 130.2#
89 0.0 36.9 55.3#



#85
sec-Butylbenzene
Concen: 0.208 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 105 Resp: 1456
Ion Ratio Lower Upper
105 100
134 18.3 9.8 29.4

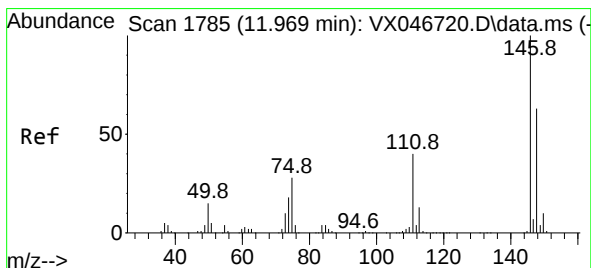
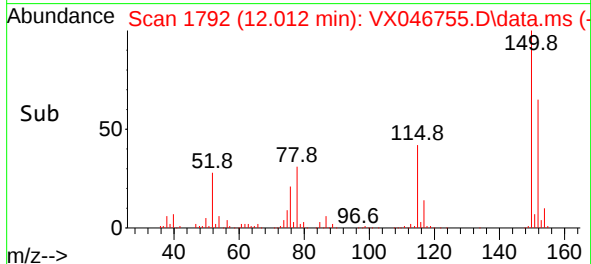
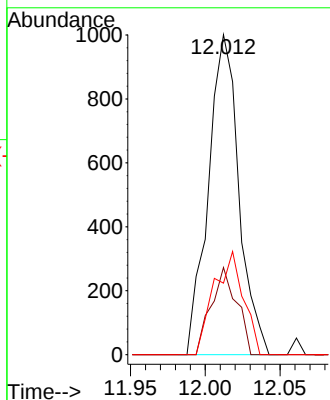
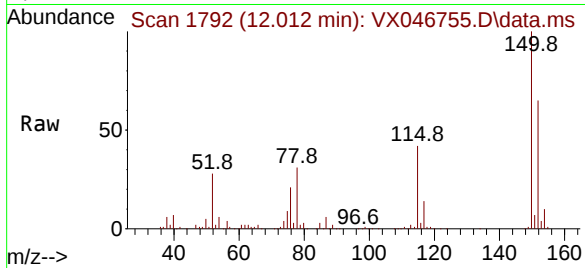




#86
 p-Isopropyltoluene
 Concen: 0.240 ug/l
 RT: 12.012 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX046755.D
 Acq: 18 Jun 2025 19:40

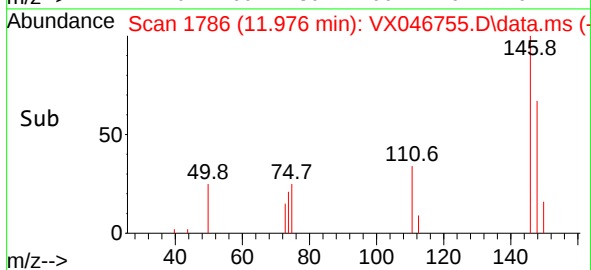
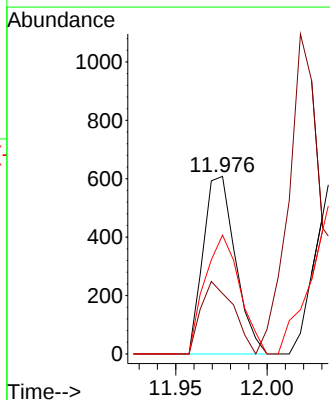
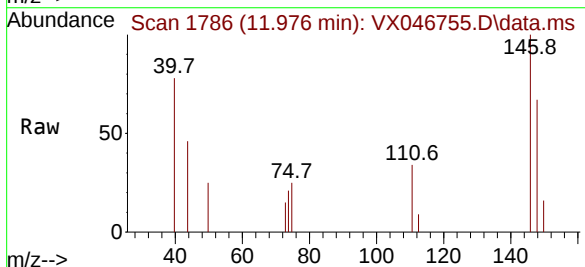
Instrument :
 MSVOA_X
 ClientSampleId :
 VIBLK

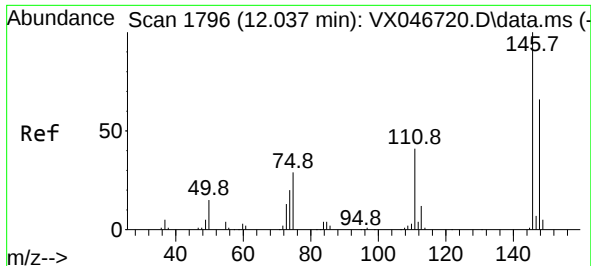
Tgt Ion:	119	Resp:	1423
Ion	Ratio	Lower	Upper
119	100		
134	22.8	12.9	38.7
91	31.0	12.3	36.9



#87
 1,3-Dichlorobenzene
 Concen: 0.243 ug/l
 RT: 11.976 min Scan# 1786
 Delta R.T. 0.006 min
 Lab File: VX046755.D
 Acq: 18 Jun 2025 19:40

Tgt Ion:	146	Resp:	744
Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.6	61.8
148	72.8	31.6	94.8

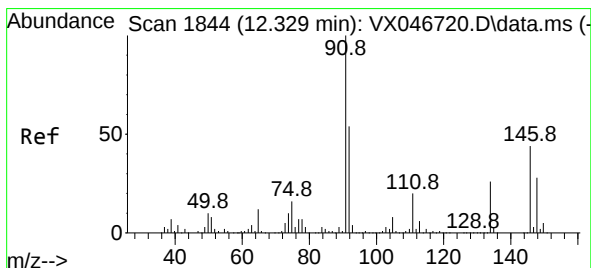
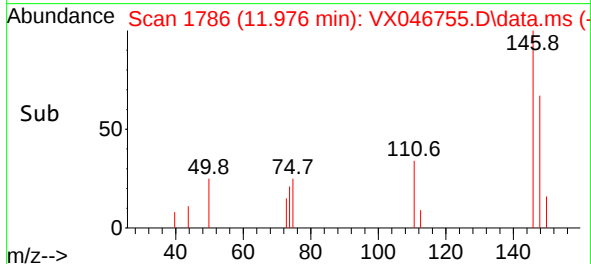
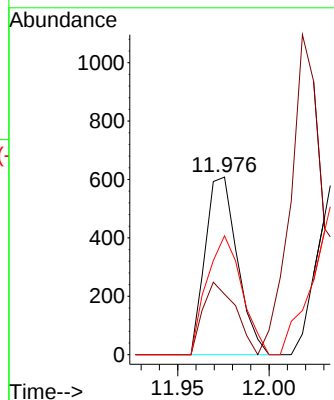
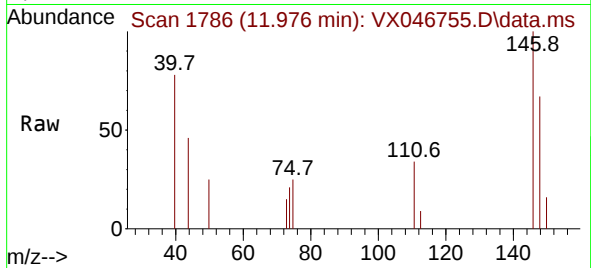




#88
1,4-Dichlorobenzene
Concen: 0.236 ug/l
RT: 11.976 min Scan# 11
Delta R.T. -0.061 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

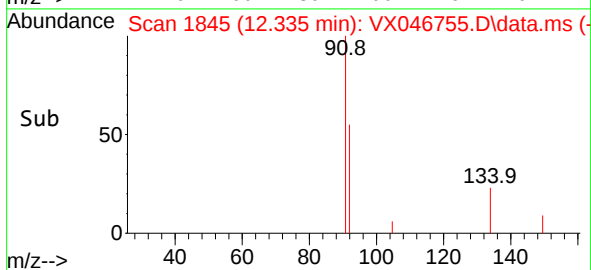
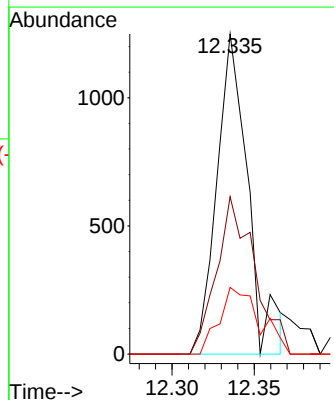
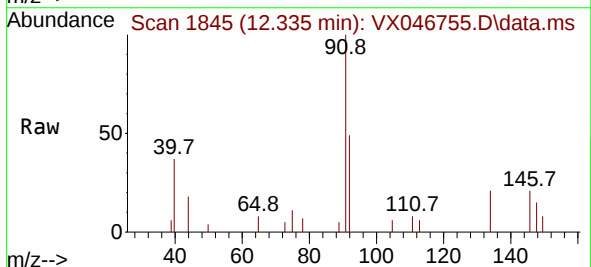
Instrument :
MSVOA_X
ClientSampleId :
VIBLK

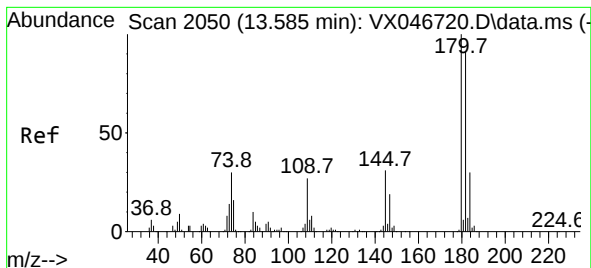
Tgt Ion:146 Resp: 744
Ion Ratio Lower Upper
146 100
111 41.3 20.3 61.0
148 72.8 32.1 96.5



#89
n-Butylbenzene
Concen: 0.293 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion: 91 Resp: 1646
Ion Ratio Lower Upper
91 100
92 59.9 27.1 81.3
134 27.0 12.9 38.6





#93

1,2,4-Trichlorobenzene

Concen: 0.461 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX046755.D

Acq: 18 Jun 2025 19:40

Instrument :

MSVOA_X

ClientSampleId :

VIBLK

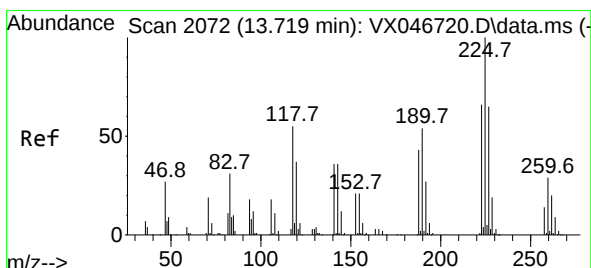
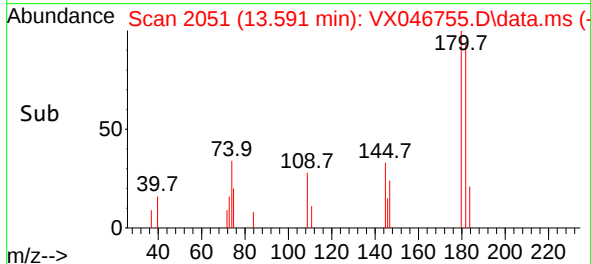
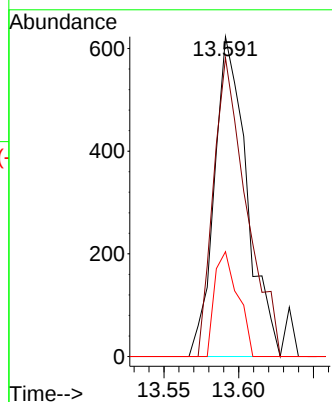
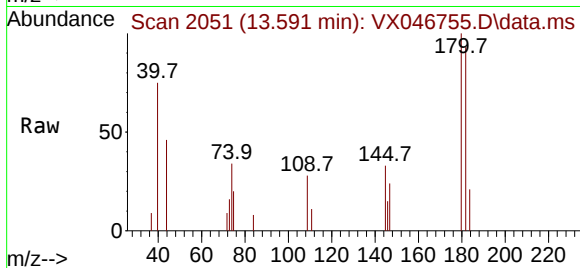
Tgt Ion:180 Resp: 938

Ion Ratio Lower Upper

180 100

182 94.7 46.7 140.1

145 23.6 15.8 47.4



#94

Hexachlorobutadiene

Concen: 0.649 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.006 min

Lab File: VX046755.D

Acq: 18 Jun 2025 19:40

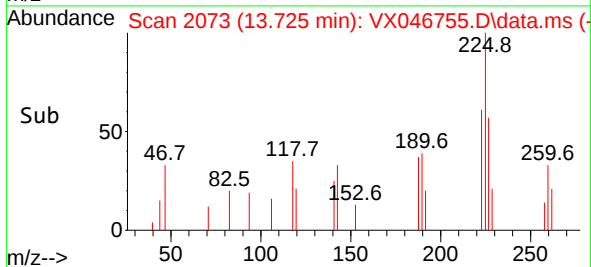
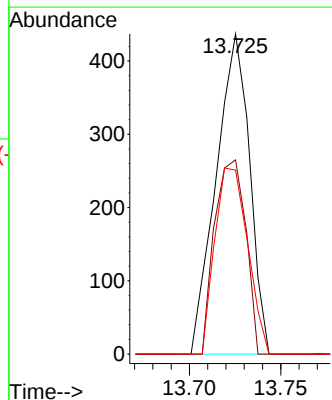
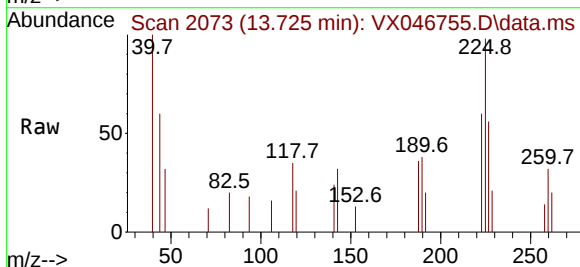
Tgt Ion:225 Resp: 556

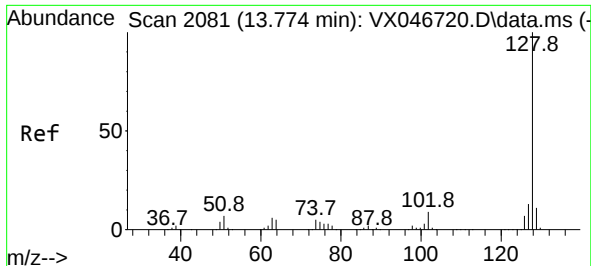
Ion Ratio Lower Upper

225 100

223 56.3 32.5 97.5

227 57.0 32.2 96.6

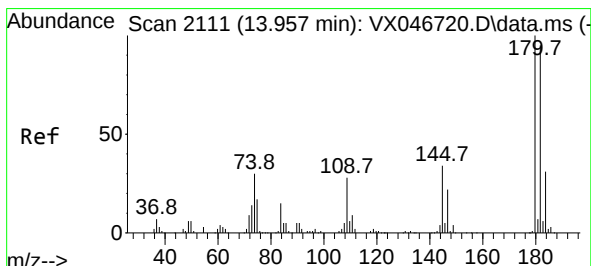
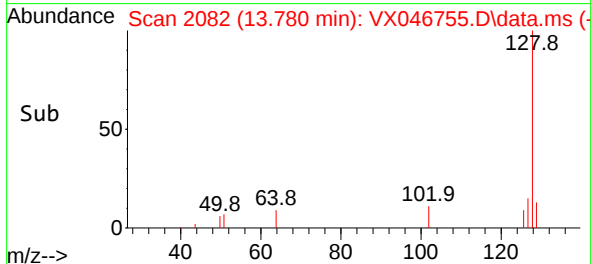
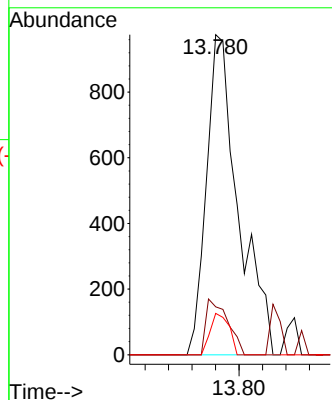
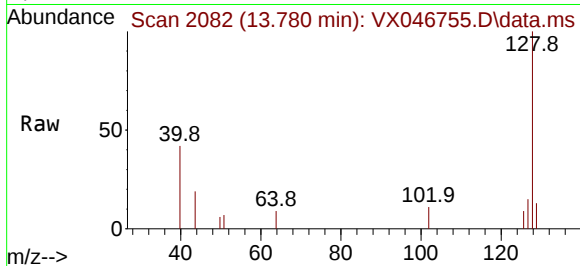




#95
Naphthalene
Concen: 0.317 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Instrument :
MSVOA_X
ClientSampleId :
VIBLK

Tgt Ion:128 Resp: 1837
Ion Ratio Lower Upper
128 100
127 11.8 10.1 15.1
129 7.6 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.488 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046755.D
Acq: 18 Jun 2025 19:40

Tgt Ion:180 Resp: 951
Ion Ratio Lower Upper
180 100
182 87.1 47.8 143.4
145 26.5 17.3 51.9

