

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042871.D
 Acq On : 06 Aug 2024 15:09
 Operator : JC/MD
 Sample : P3446-01DL 4X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 07 05:00:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

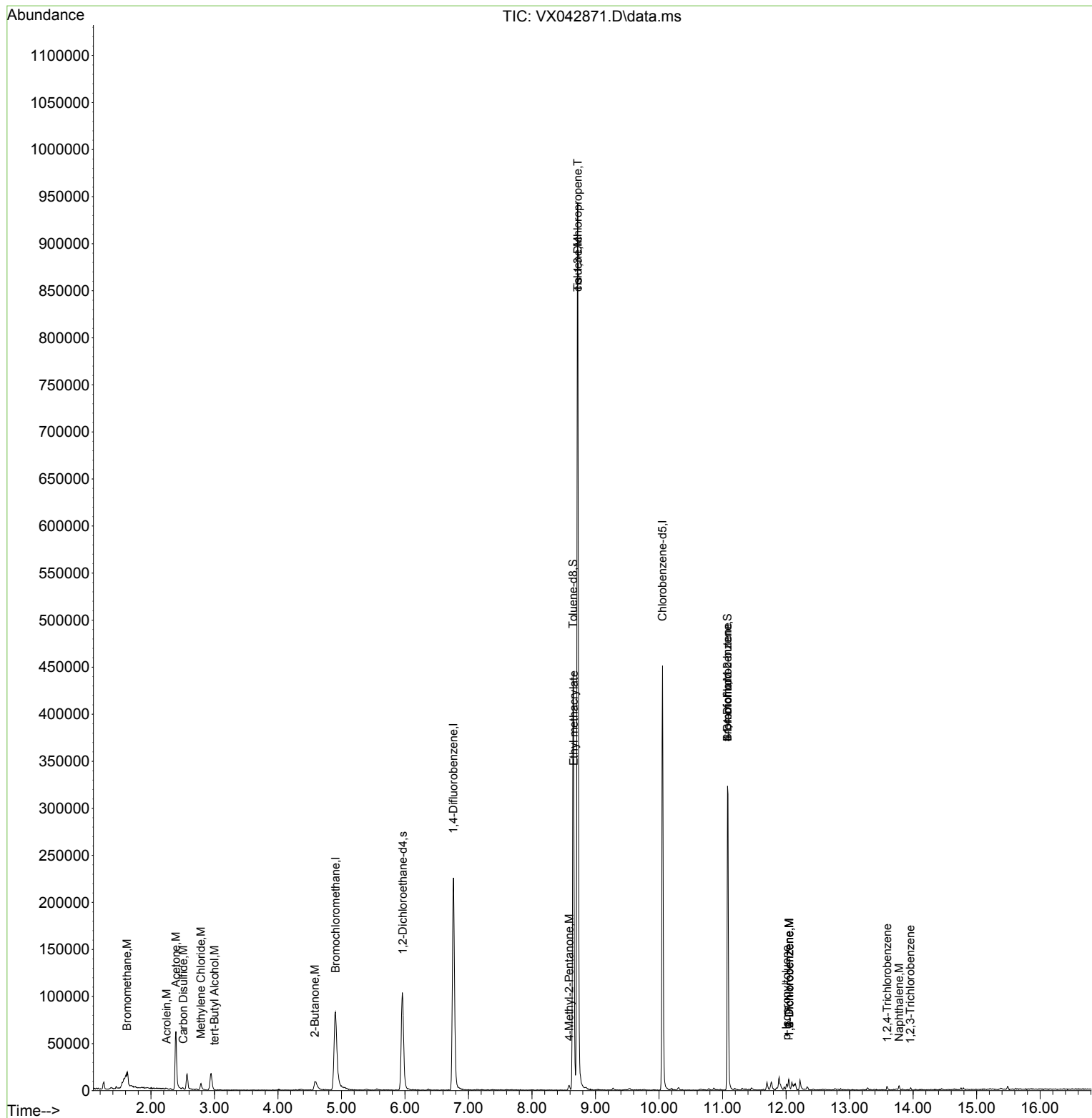
Internal Standards						
1) Bromochloromethane	4.910	128	40033	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	228557	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	202542	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	102554	27.742	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.467%		
60) 4-Bromofluorobenzene	11.079	95	89777	27.169	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.567%		
63) Toluene-d8	8.647	98	282512	30.879	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.933%		
Target Compounds					Qvalue	
5) Bromomethane	1.624	94	376	0.267	ug/l	99
13) Acrolein	2.245	56	202	1.334	ug/l #	62
15) Acetone	2.392	58	21623	41.896	ug/l	84
16) Carbon Disulfide	2.508	76	1904	0.382	ug/l #	91
18) Methylene Chloride	2.788	84	3236	1.165	ug/l	97
23) tert-Butyl Alcohol	3.001	59	159	0.217	ug/l #	100
30) 2-Butanone	4.580	43	14406	6.642	ug/l #	74
49) cis-1,3-Dichloropropene	8.720	75	4394	1.176	ug/l #	1
51) Ethyl methacrylate	8.659	69	868	0.214	ug/l	83
56) Bromoform	11.079	173	626	0.303	ug/l #	1
58) 4-Methyl-2-Pentanone	8.586	43	3426	0.898	ug/l #	86
62) Toluene	8.720	91	638076	64.321	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	46118	40.707	ug/l #	11
82) p-Isopropyltoluene	12.006	119	2942	0.305	ug/l	95
83) 1,3-Dichlorobenzene	12.049	146	2273	0.449	ug/l	94
84) 1,4-Dichlorobenzene	12.049	146	2273	0.447	ug/l	93
87) 1,2-Dichlorobenzene	12.049	146	2273	0.451	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	840	0.256	ug/l	89
91) Naphthalene	13.780	128	3339	0.303	ug/l #	89
92) 1,2,3-Trichlorobenzene	13.957	180	742	0.224	ug/l	99

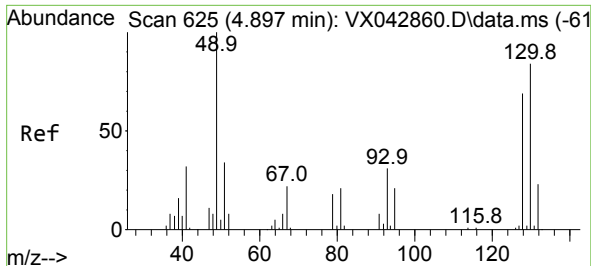
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
Data File : VX042871.D
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Operator : JC/MD
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Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
MSVOA_X
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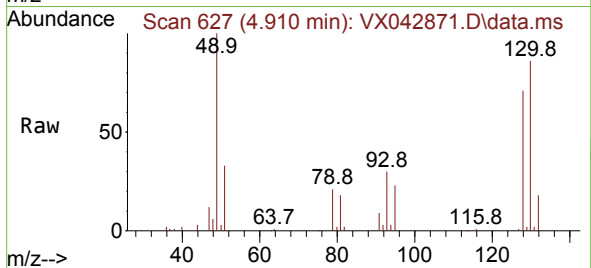
Quant Time: Aug 07 05:00:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 07 04:53:59 2024
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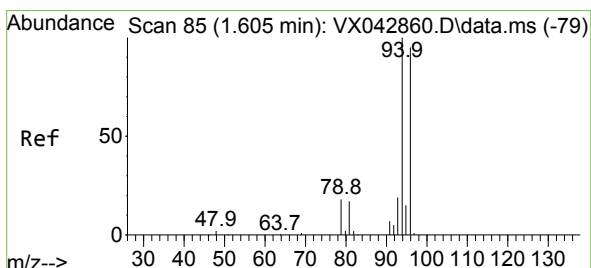
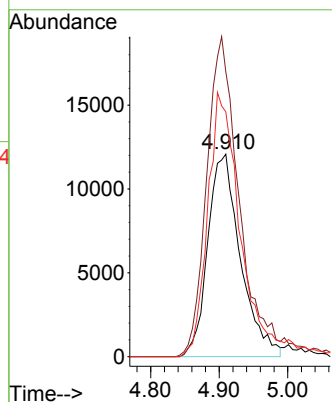
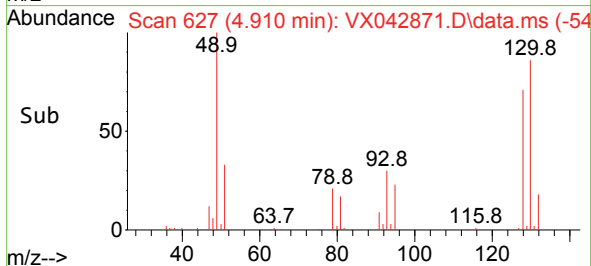


#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 4.910 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VX042871.D
 Acq: 06 Aug 2024 15:09

Instrument :
 MSVOA_X
 ClientSampleId :

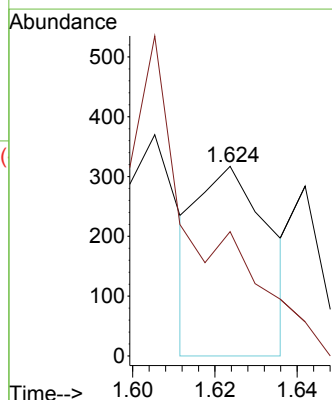
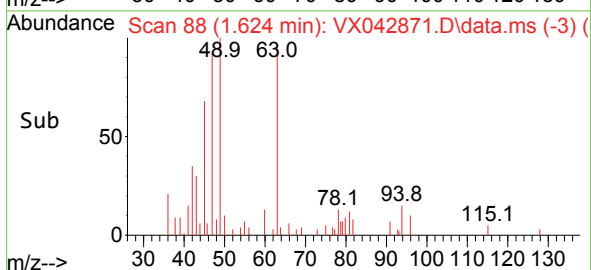
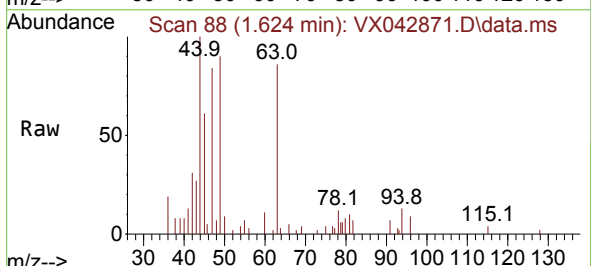


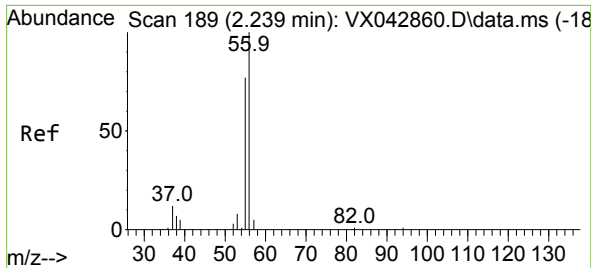
Tgt Ion:128 Resp: 40033
 Ion Ratio Lower Upper
 128 100
 49 156.3 0.0 400.5
 130 128.2 0.0 333.0



#5
 Bromomethane
 Concen: 0.267 ug/l
 RT: 1.624 min Scan# 88
 Delta R.T. 0.019 min
 Lab File: VX042871.D
 Acq: 06 Aug 2024 15:09

Tgt Ion: 94 Resp: 376
 Ion Ratio Lower Upper
 94 100
 96 94.2 76.2 114.4





#13

Acrolein

Concen: 1.334 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX042871.D

Acq: 06 Aug 2024 15:09

Instrument :

MSVOA_X

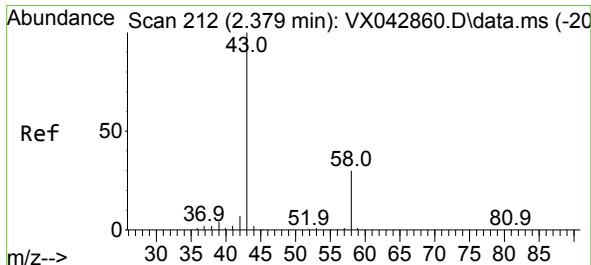
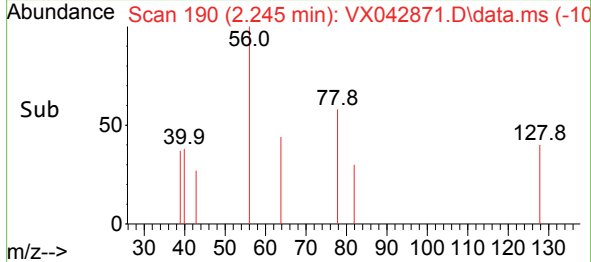
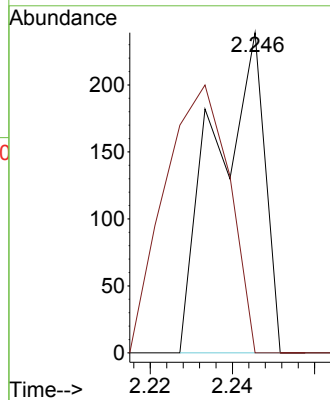
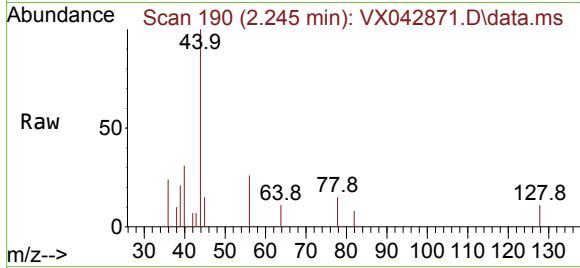
ClientSampleId :

Tgt Ion: 56 Resp: 202

Ion Ratio Lower Upper

56 100

55 107.9 60.6 90.8#



#15

Acetone

Concen: 41.896 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.013 min

Lab File: VX042871.D

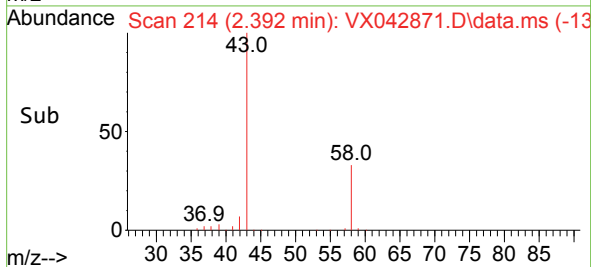
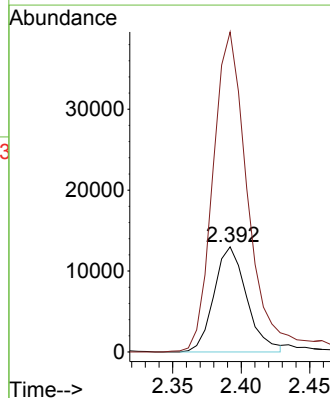
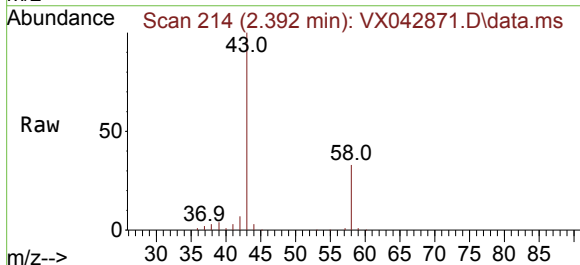
Acq: 06 Aug 2024 15:09

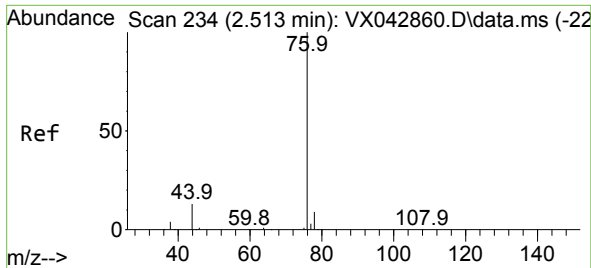
Tgt Ion: 58 Resp: 21623

Ion Ratio Lower Upper

58 100

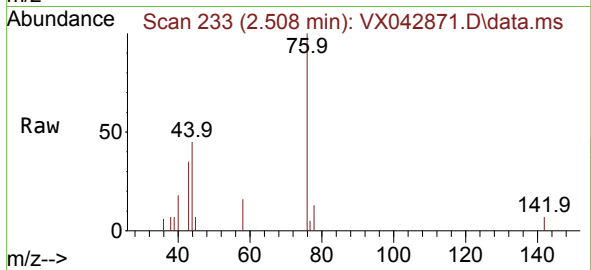
43 303.2 269.9 404.9



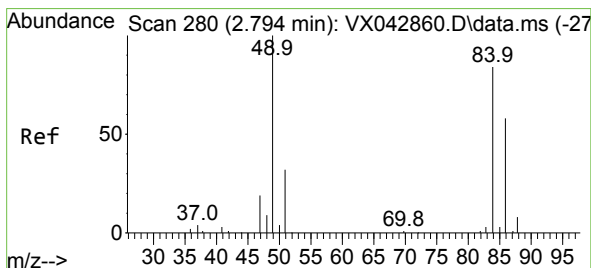
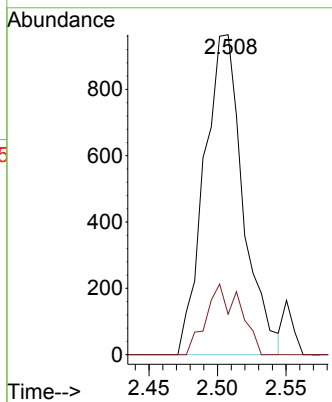
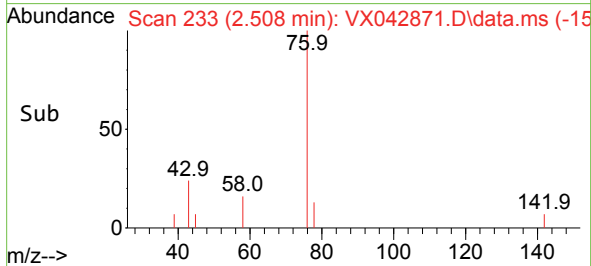


#16
Carbon Disulfide
Concen: 0.382 ug/l
RT: 2.508 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :

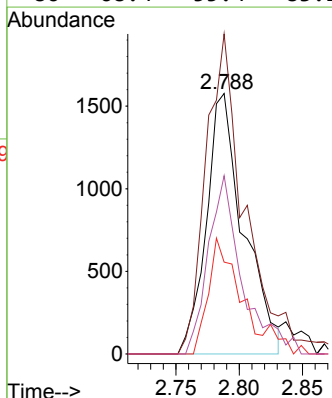
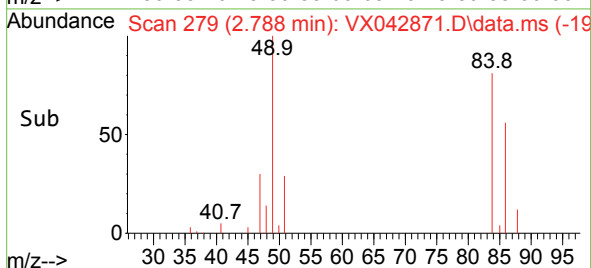
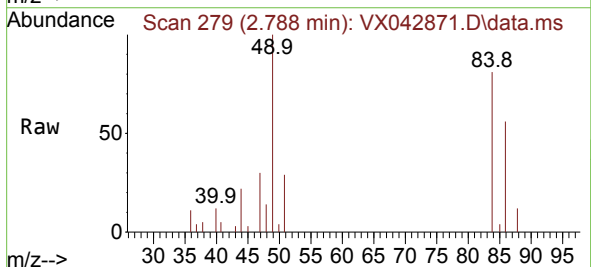


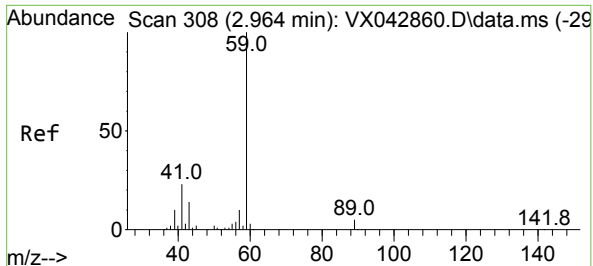
Tgt Ion: 76 Resp: 1904
Ion Ratio Lower Upper
76 100
78 12.0 7.1 10.7#



#18
Methylene Chloride
Concen: 1.165 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.006 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

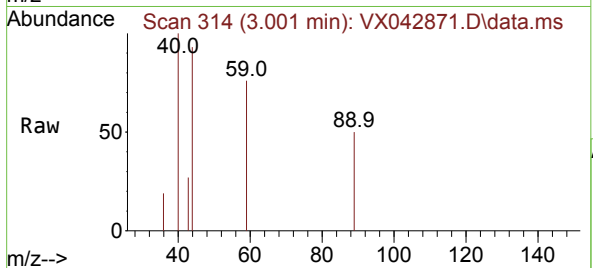
Tgt Ion: 84 Resp: 3236
Ion Ratio Lower Upper
84 100
49 122.8 95.0 142.6
51 35.3 30.1 45.1
86 68.4 55.4 83.2



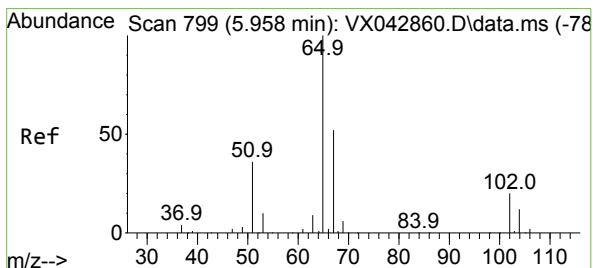
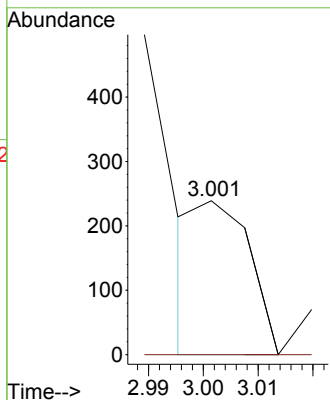
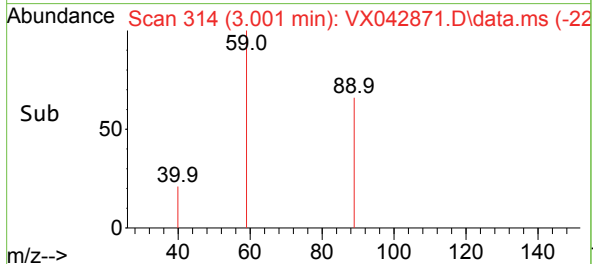


#23
tert-Butyl Alcohol
Concen: 0.217 ug/l
RT: 3.001 min Scan# 314
Delta R.T. 0.037 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

Instrument :
MSVOA_X
ClientSampleId :

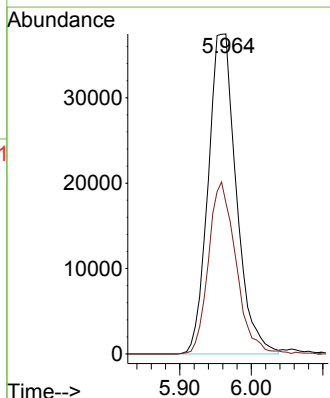
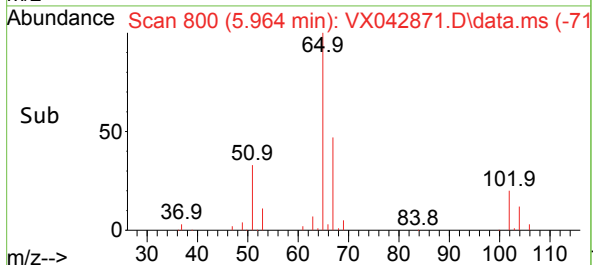
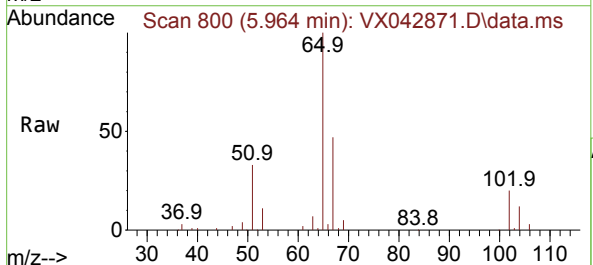


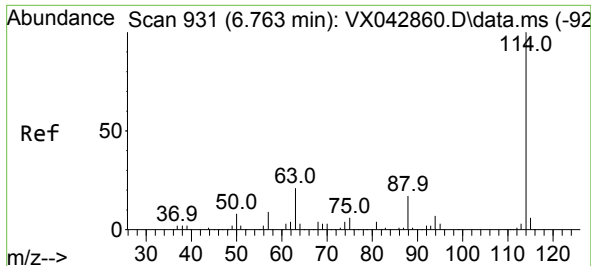
Tgt Ion: 59 Resp: 159
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 27.742 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.006 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

Tgt Ion: 65 Resp: 102554
Ion Ratio Lower Upper
65 100
67 52.1 40.6 60.8

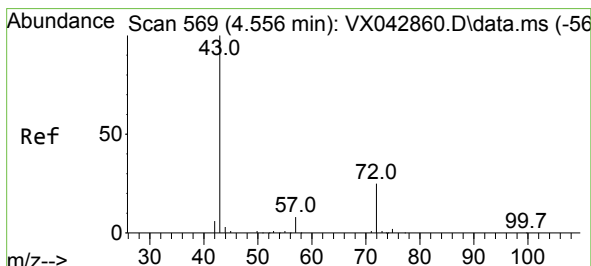
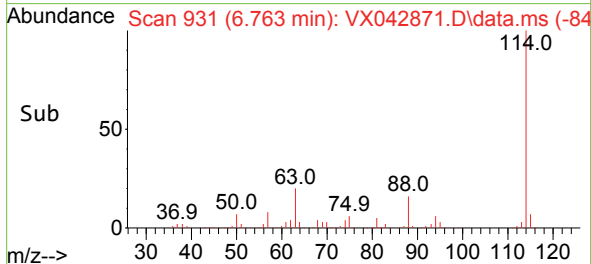
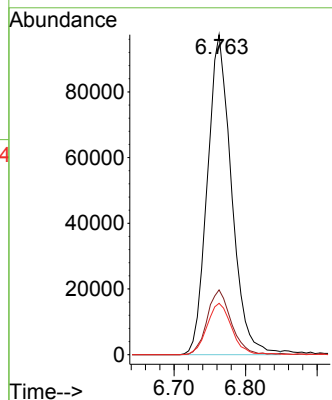
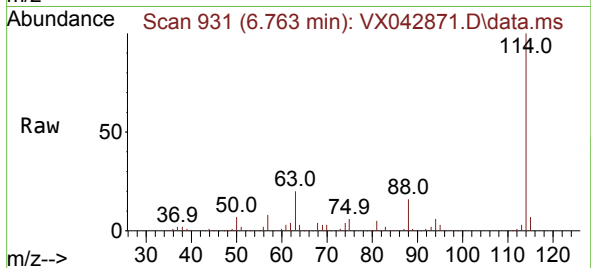




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

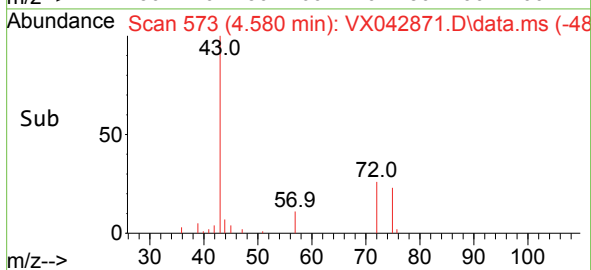
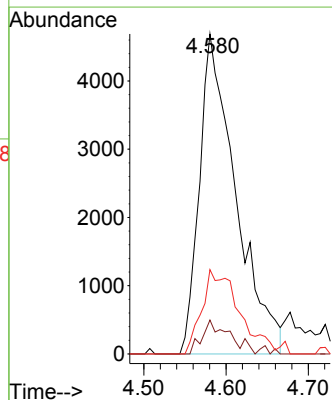
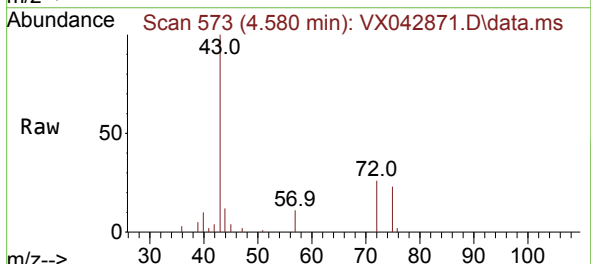
Instrument :
MSVOA_X
ClientSampleId :

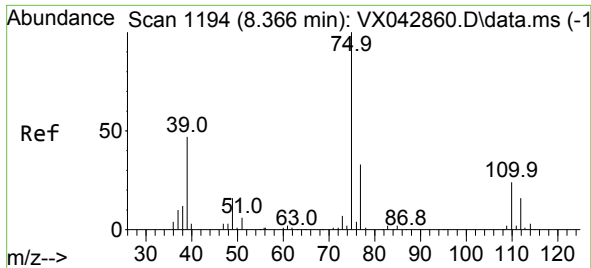
Tgt Ion:114 Resp: 228557
Ion Ratio Lower Upper
114 100
63 20.2 16.0 24.0
88 16.2 12.5 18.7



#30
2-Butanone
Concen: 6.642 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.025 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

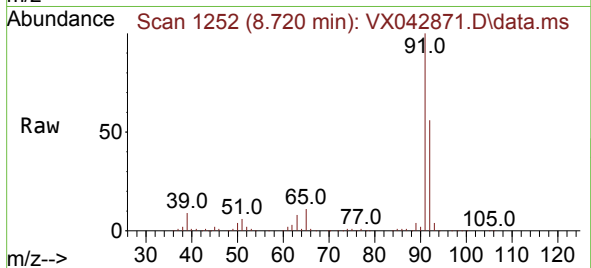
Tgt Ion: 43 Resp: 14406
Ion Ratio Lower Upper
43 100
57 3.8 6.6 10.0#
72 10.7 21.0 31.4#



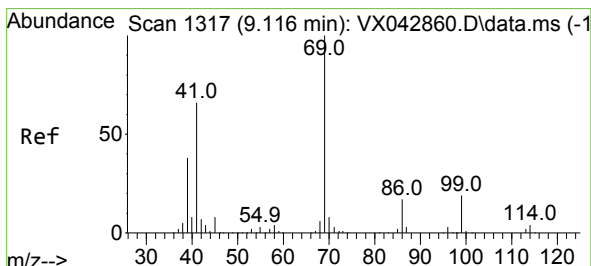
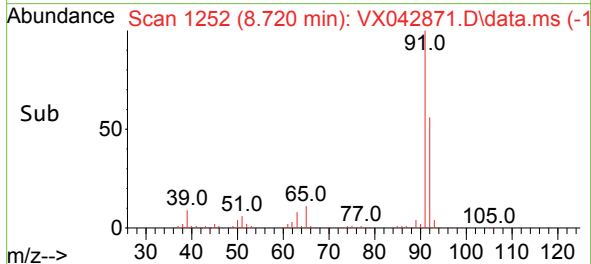
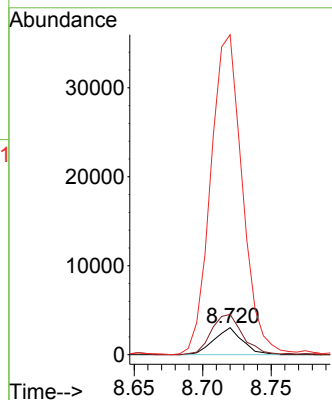


#49
 cis-1,3-Dichloropropene
 Concen: 1.176 ug/l
 RT: 8.720 min Scan# 1194
 Delta R.T. 0.354 min
 Lab File: VX042871.D
 Acq: 06 Aug 2024 15:09

Instrument :
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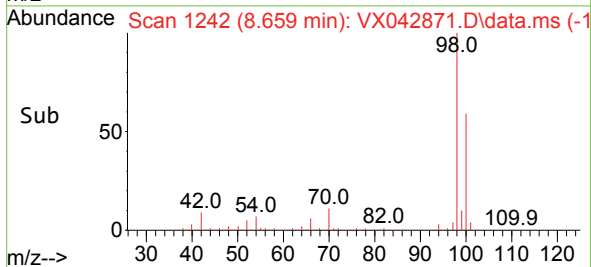
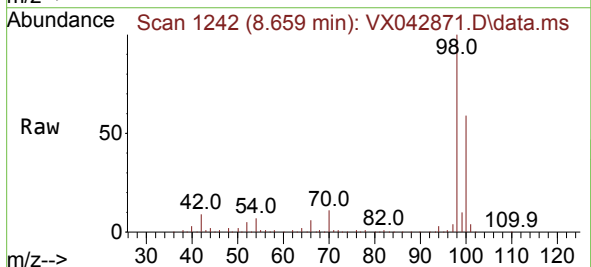
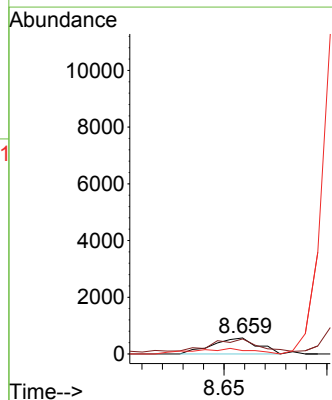


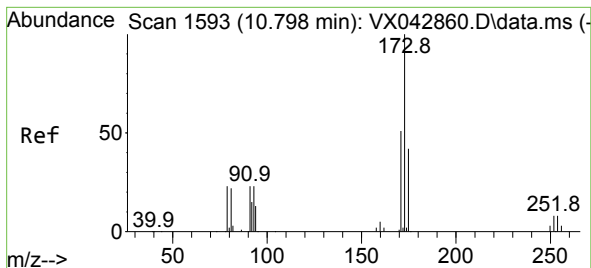
Tgt Ion: 75 Resp: 4394
 Ion Ratio Lower Upper
 75 100
 77 148.9 26.8 40.2#
 39 1178.1 37.5 56.3#



#51
 Ethyl methacrylate
 Concen: 0.214 ug/l
 RT: 8.659 min Scan# 1242
 Delta R.T. -0.457 min
 Lab File: VX042871.D
 Acq: 06 Aug 2024 15:09

Tgt Ion: 69 Resp: 868
 Ion Ratio Lower Upper
 69 100
 41 74.7 33.1 99.2
 39 21.2 18.8 56.3





#56

Bromoform

Concen: 0.303 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.281 min

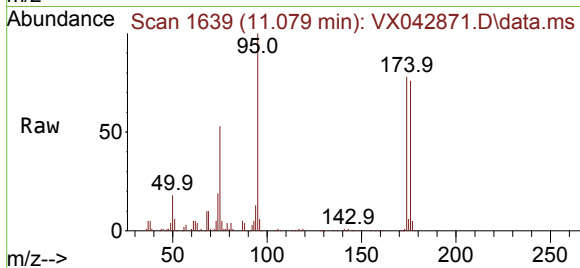
Lab File: VX042871.D

Acq: 06 Aug 2024 15:09

Instrument :

MSVOA_X

ClientSampleId :



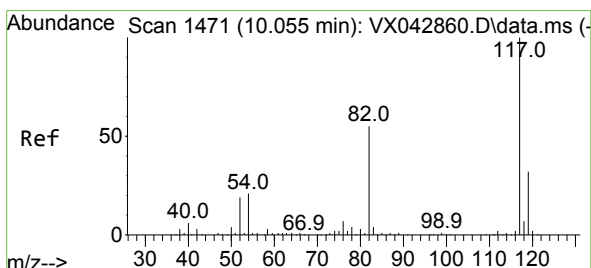
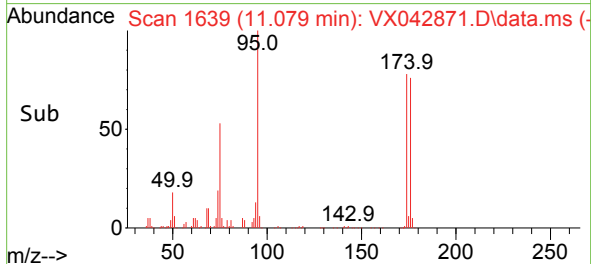
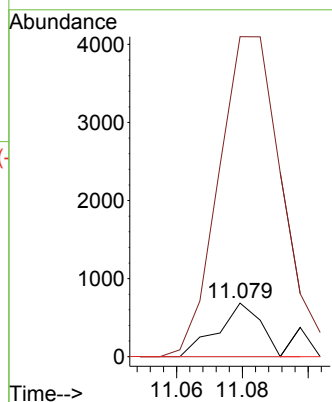
Tgt Ion:173 Resp: 626

Ion Ratio Lower Upper

173 100

175 895.0 37.1 55.7#

254 0.0 6.6 10.0#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX042871.D

Acq: 06 Aug 2024 15:09

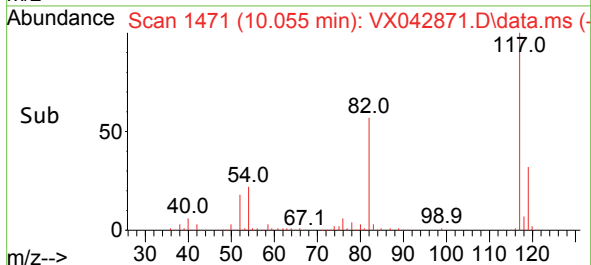
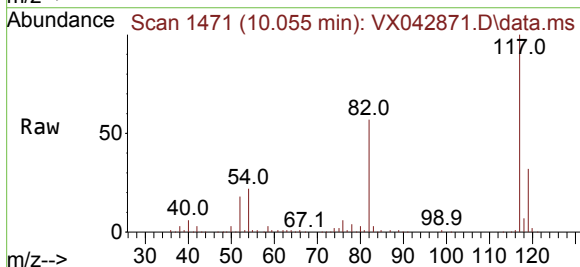
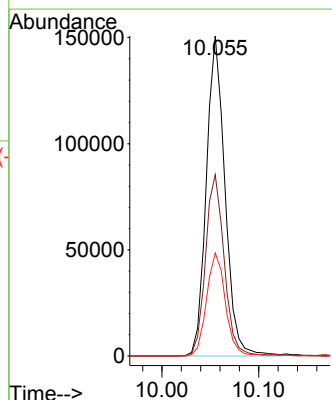
Tgt Ion:117 Resp: 202542

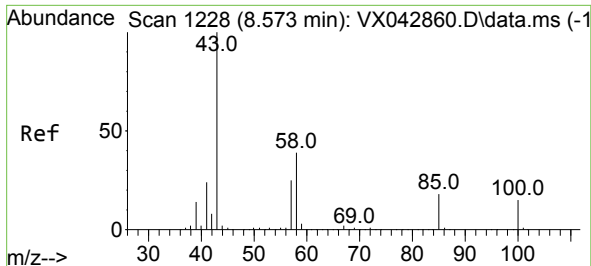
Ion Ratio Lower Upper

117 100

82 56.6 44.9 67.3

119 32.5 25.4 38.2





#58

4-Methyl-2-Pentanone

Concen: 0.898 ug/l

RT: 8.586 min Scan# 11

Delta R.T. 0.013 min

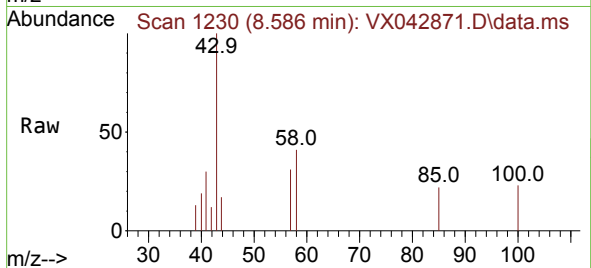
Lab File: VX042871.D

Acq: 06 Aug 2024 15:09

Instrument :

MSVOA_X

ClientSampleId :



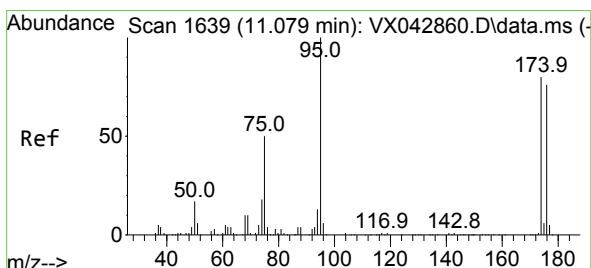
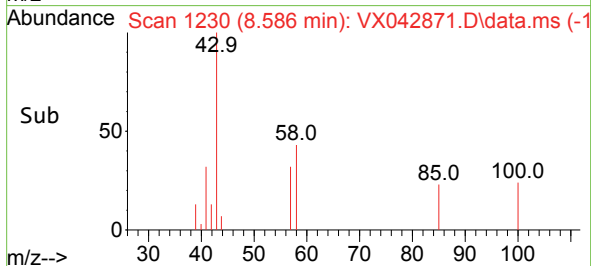
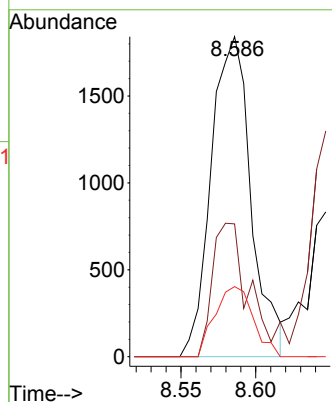
Tgt Ion: 43 Resp: 3426

Ion Ratio Lower Upper

43 100

58 28.8 31.4 47.0#

85 20.9 14.6 21.8



#60

4-Bromofluorobenzene

Concen: 27.169 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX042871.D

Acq: 06 Aug 2024 15:09

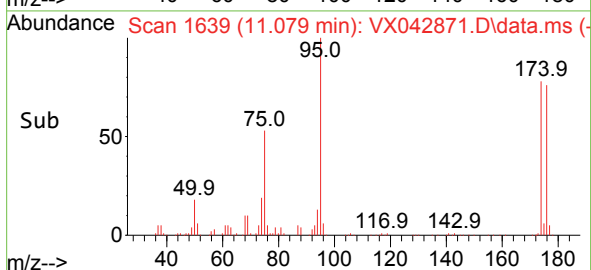
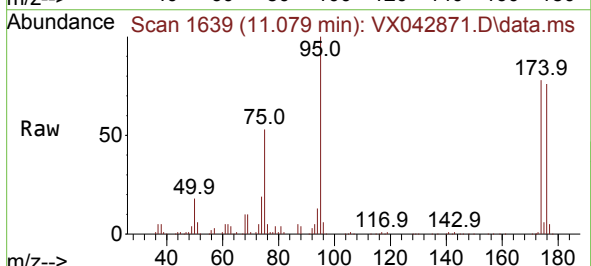
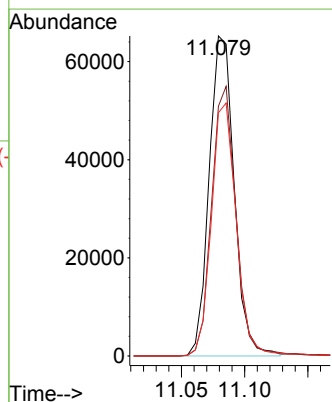
Tgt Ion: 95 Resp: 89777

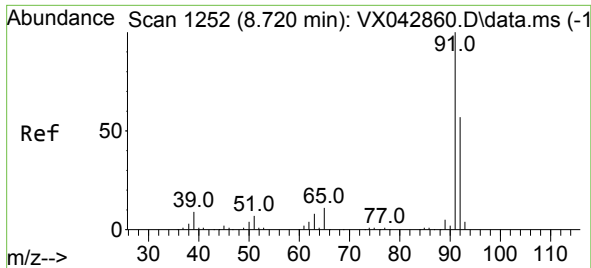
Ion Ratio Lower Upper

95 100

174 82.3 65.0 97.6

176 78.4 63.4 95.0

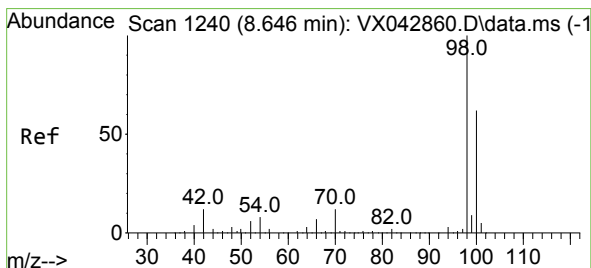
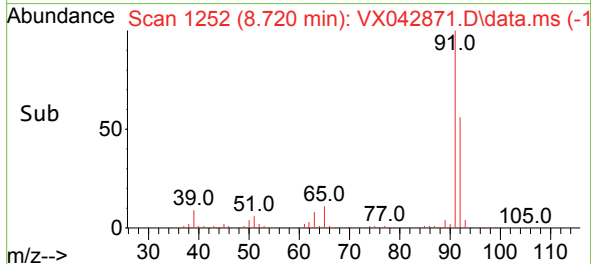
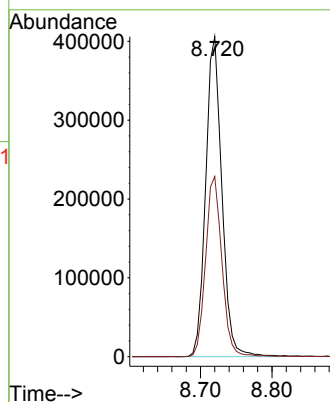
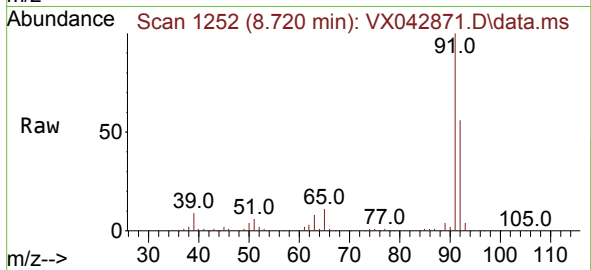




#62
Toluene
Concen: 64.321 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

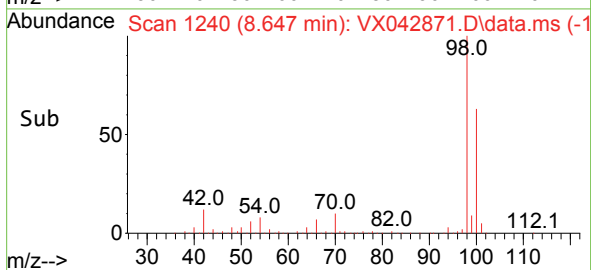
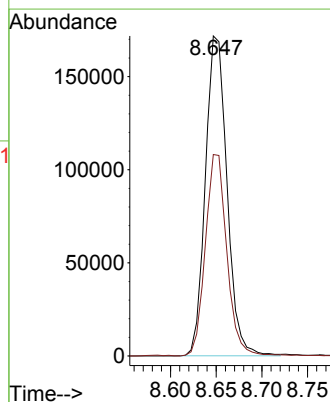
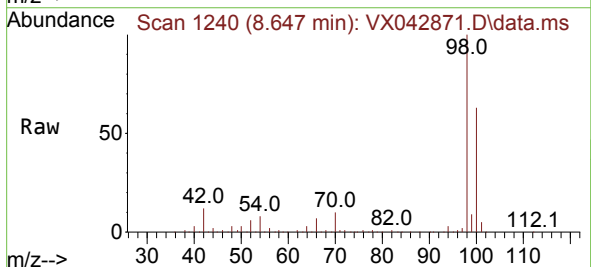
Instrument :
MSVOA_X
ClientSampleId :

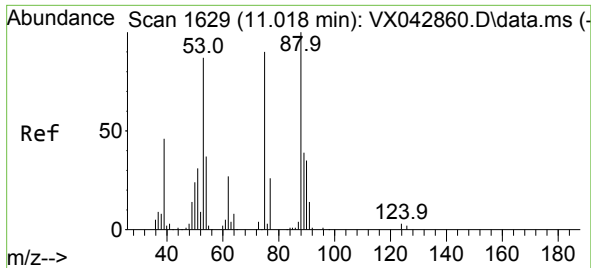
Tgt Ion: 91 Resp: 638076
Ion Ratio Lower Upper
91 100
92 56.5 45.7 68.5



#63
Toluene-d8
Concen: 30.879 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

Tgt Ion: 98 Resp: 282512
Ion Ratio Lower Upper
98 100
100 62.6 50.9 76.3

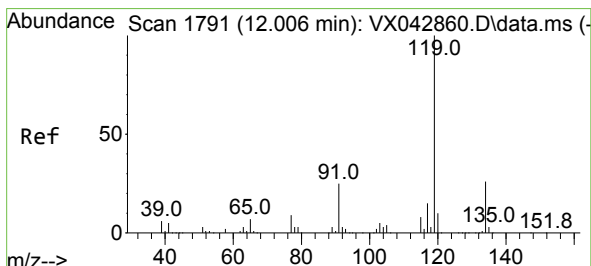
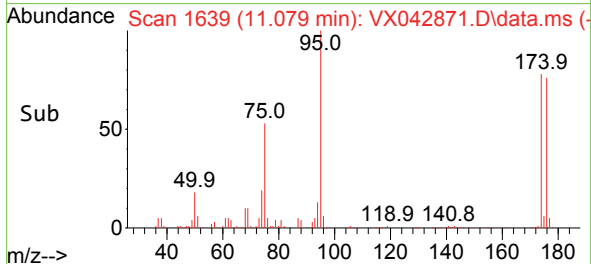
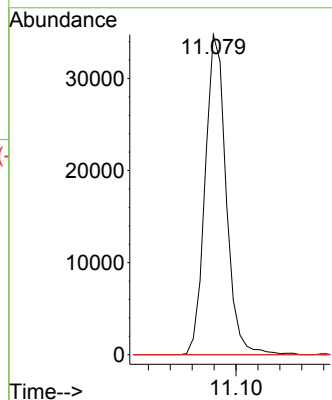
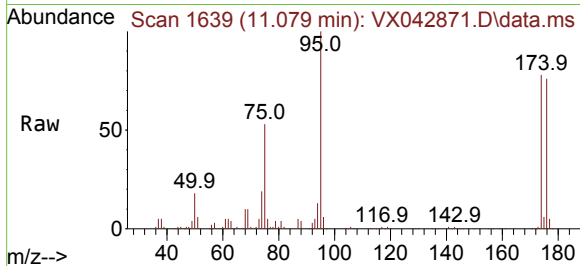




#77
t-1,4-Dichloro-2-butene
Concen: 40.707 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

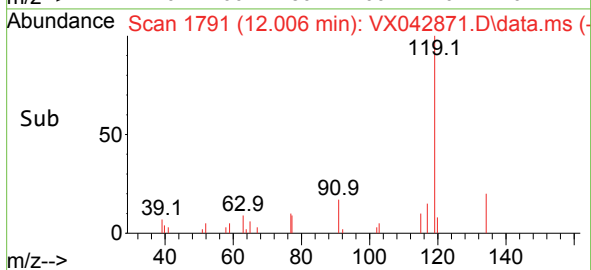
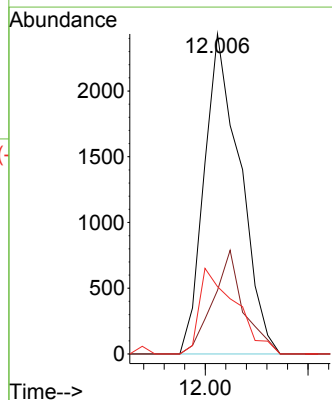
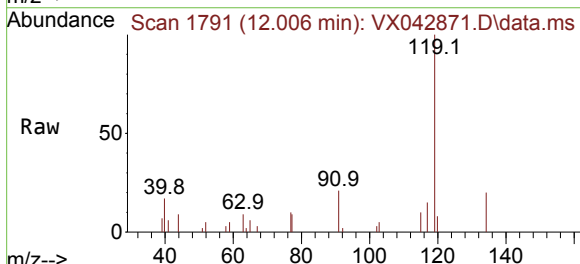
Instrument :
MSVOA_X
ClientSampleId :

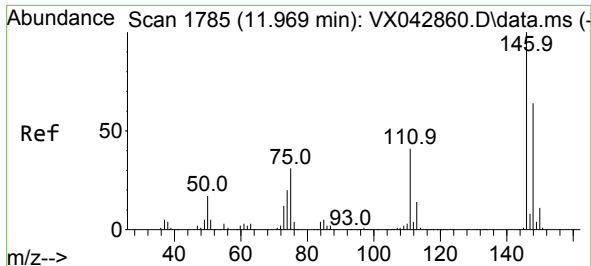
Tgt Ion: 75 Resp: 46118
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.5#
89 0.0 21.9 65.5#



#82
p-Isopropyltoluene
Concen: 0.305 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

Tgt Ion: 119 Resp: 2942
Ion Ratio Lower Upper
119 100
134 27.8 0.0 51.8
91 27.4 0.0 48.4

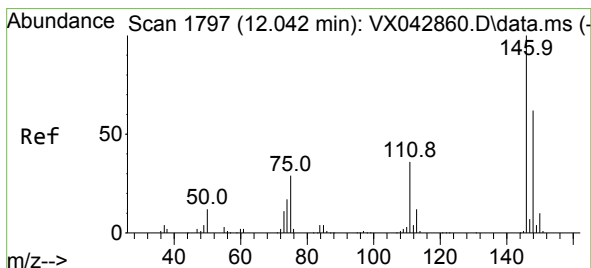
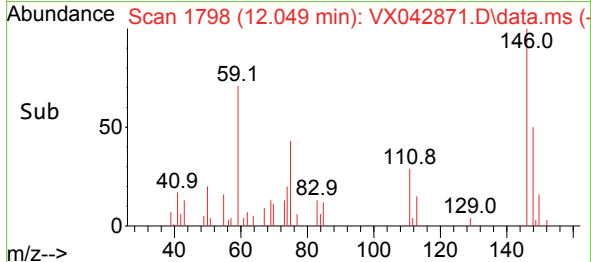
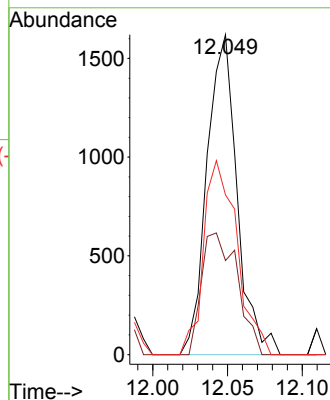
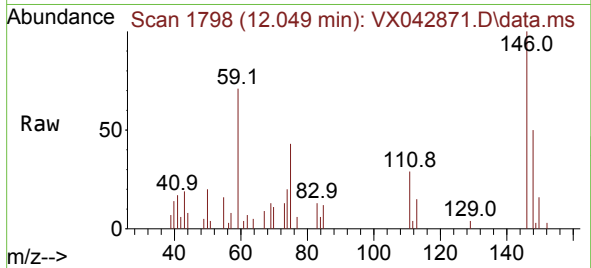




#83
1,3-Dichlorobenzene
Concen: 0.449 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.080 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

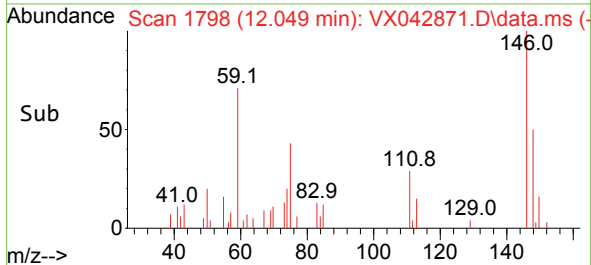
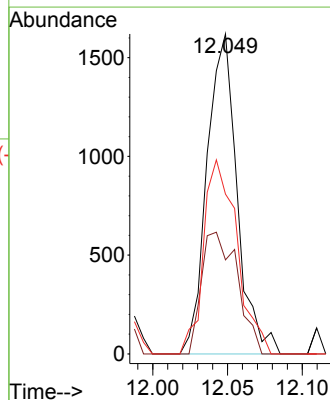
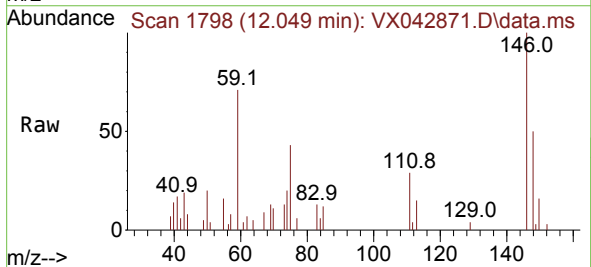
Instrument :
MSVOA_X
ClientSampleId :

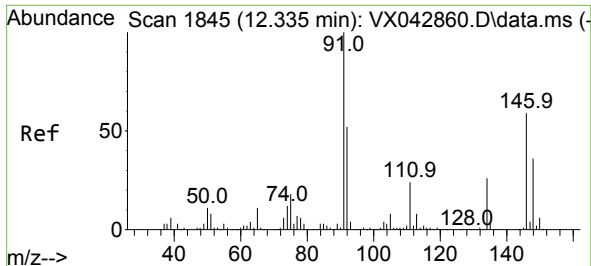
Tgt Ion:146 Resp: 2273
Ion Ratio Lower Upper
146 100
111 45.1 20.3 61.0
148 67.2 31.7 95.1



#84
1,4-Dichlorobenzene
Concen: 0.447 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.006 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

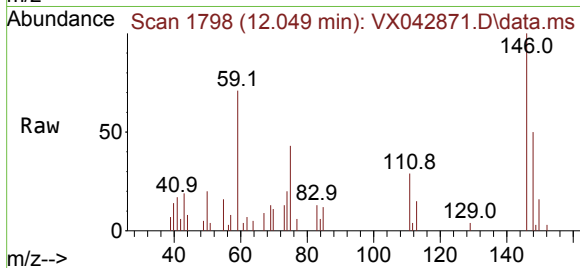
Tgt Ion:146 Resp: 2273
Ion Ratio Lower Upper
146 100
111 45.1 19.4 58.4
148 67.2 31.4 94.2



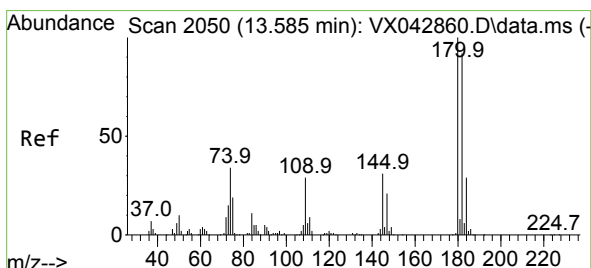
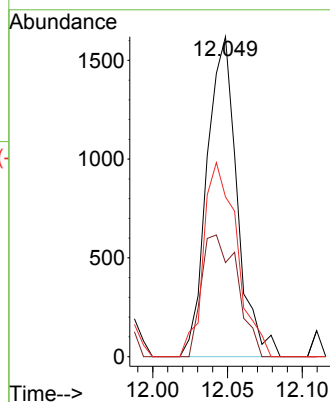
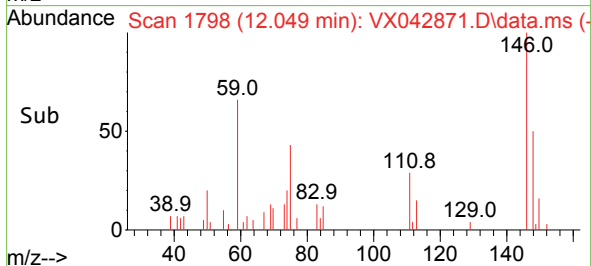


#87
1,2-Dichlorobenzene
Concen: 0.451 ug/l
RT: 12.049 min Scan# 11
Delta R.T. -0.286 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09

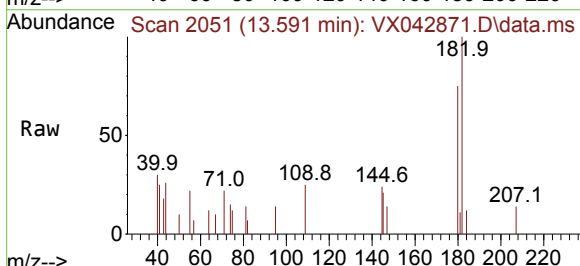
Instrument :
MSVOA_X
ClientSampleId :



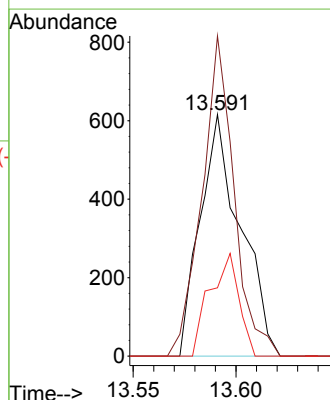
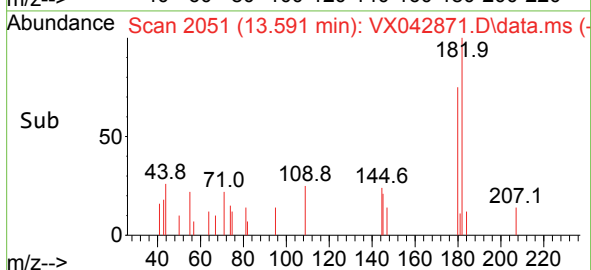
Tgt Ion:146 Resp: 2273
Ion Ratio Lower Upper
146 100
111 45.1 21.0 63.0
148 67.2 30.8 92.4

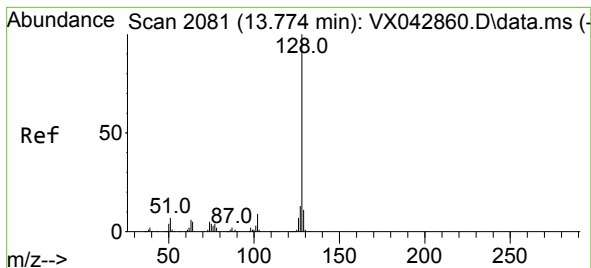


#89
1,2,4-Trichlorobenzene
Concen: 0.256 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX042871.D
Acq: 06 Aug 2024 15:09



Tgt Ion:180 Resp: 840
Ion Ratio Lower Upper
180 100
182 105.2 73.1 109.7
145 30.6 24.6 37.0





#91

Naphthalene

Concen: 0.303 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX042871.D

Acq: 06 Aug 2024 15:09

Instrument :

MSVOA_X

ClientSampleId :

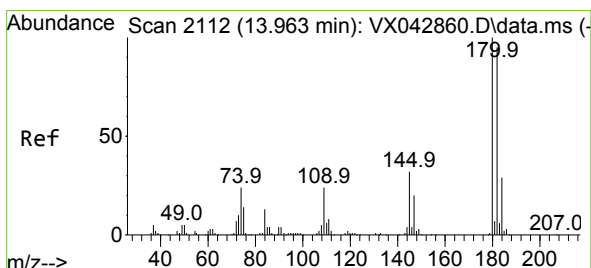
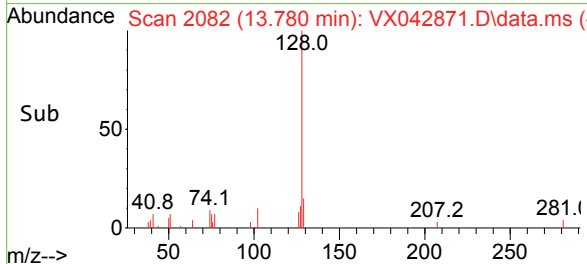
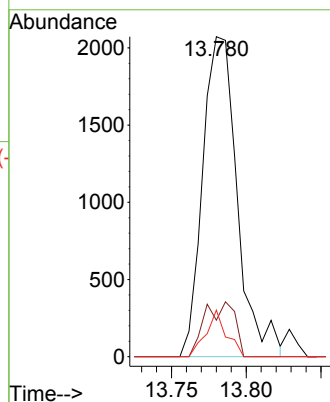
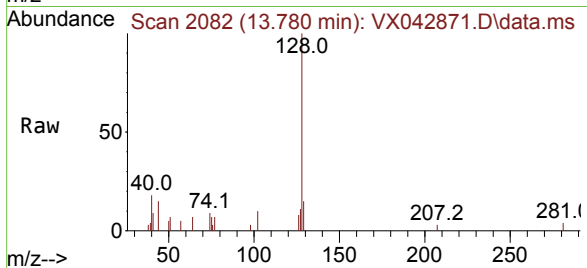
Tgt Ion:128 Resp: 3339

Ion Ratio Lower Upper

128 100

127 7.1 10.2 15.4#

129 8.6 8.8 13.2#



#92

1,2,3-Trichlorobenzene

Concen: 0.224 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.006 min

Lab File: VX042871.D

Acq: 06 Aug 2024 15:09

Tgt Ion:180 Resp: 742

Ion Ratio Lower Upper

180 100

182 93.8 0.0 185.8

145 32.5 0.0 65.2

