

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010924\
 Data File : VX039678.D
 Acq On : 09 Jan 2024 14:28
 Operator : JC/MD
 Sample : P1047-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 05:34:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jan 09 06:15:26 2024
 Response via : Initial Calibration

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

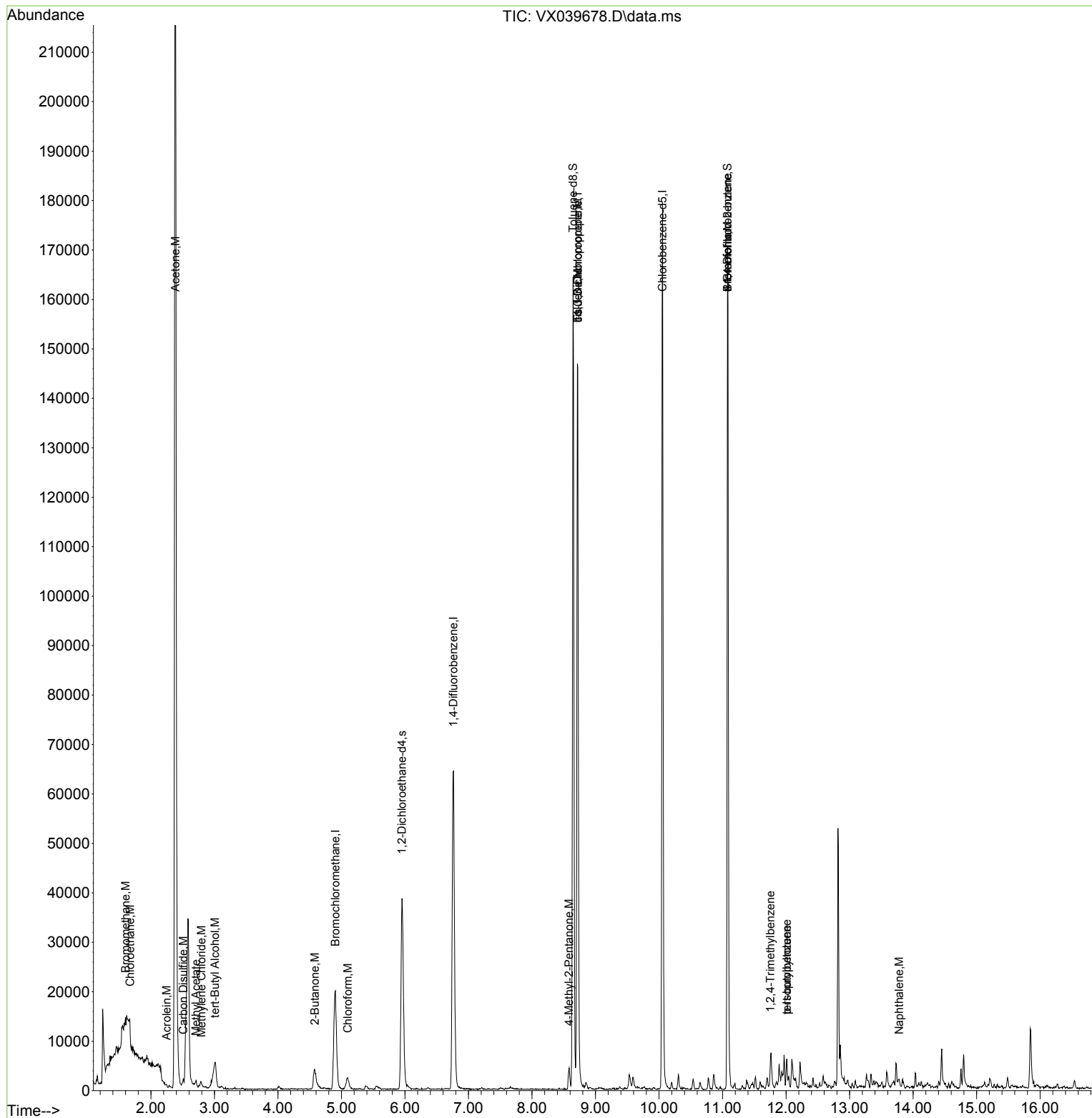
Internal Standards						
1) Bromochloromethane	4.903	128	7917	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	66183	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	77164	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	36967	29.784	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.267%
60) 4-Bromofluorobenzene	11.079	95	48292	28.375	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.567%
63) Toluene-d8	8.647	98	95787	30.193	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.633%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	305	0.440	ug/l #	56
6) Chloroethane	1.672	64	2219	3.361	ug/l #	43
12) Methyl Acetate	2.709	43	1316	0.680	ug/l #	87
13) Acrolein	2.245	56	123	0.426	ug/l #	78
15) Acetone	2.385	58	90291	322.476	ug/l	94
16) Carbon Disulfide	2.507	76	1789	0.552	ug/l #	86
18) Methylene Chloride	2.794	84	564	0.401	ug/l #	85
23) tert-Butyl Alcohol	3.007	59	10206	24.544	ug/l #	100
25) Chloroform	5.098	83	1471	0.580	ug/l	92
30) 2-Butanone	4.580	43	8354	6.133	ug/l #	91
48) t-1,3-Dichloropropene	8.720	75	768	0.376	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	768	0.343	ug/l #	1
56) Bromoform	11.079	173	250	0.284	ug/l #	1
58) 4-Methyl-2-Pentanone	8.579	43	3066	1.208	ug/l	96
62) Toluene	8.720	91	95591	16.710	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	25988	40.544	ug/l #	12
79) tert-butylbenzene	12.012	119	2607	0.530	ug/l	65
80) 1,2,4-Trimethylbenzene	11.756	105	2305	0.447	ug/l	76
82) p-Isopropyltoluene	12.012	119	2607	0.518	ug/l	98
91) Naphthalene	13.780	128	1109	0.201	ug/l #	79

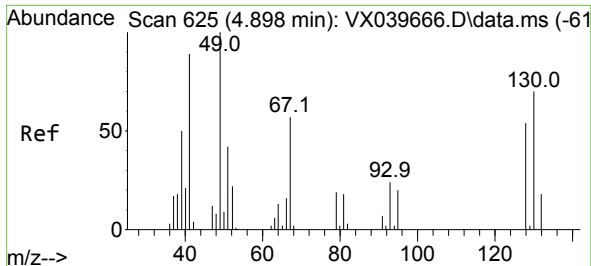
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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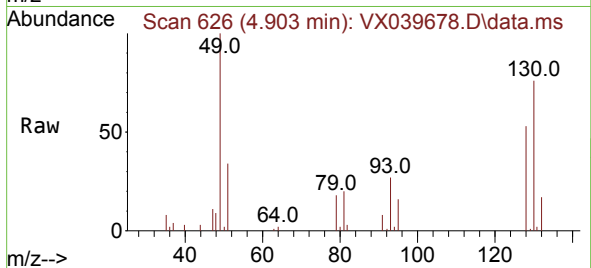
Quant Time: Jan 10 05:34:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Jan 09 06:15:26 2024
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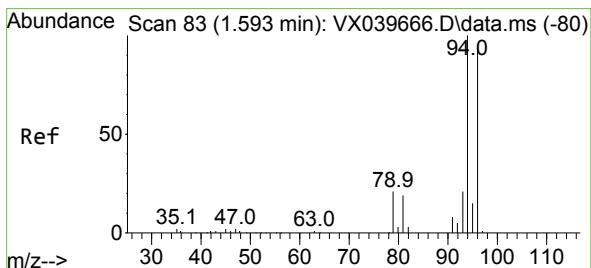
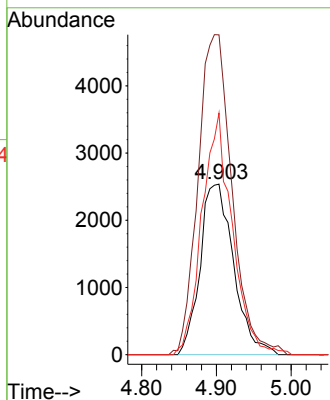
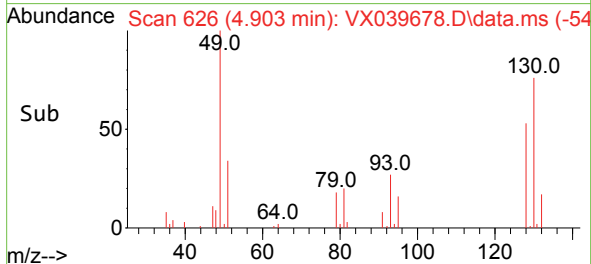


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.005 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Instrument :
MSVOA_X
ClientSampleId :

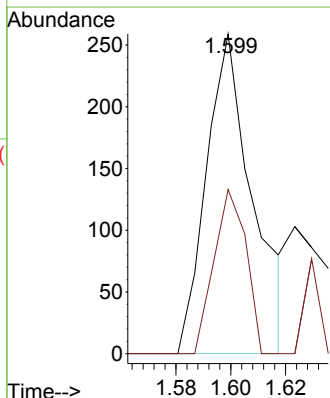
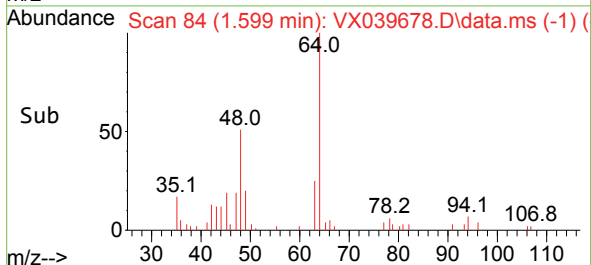
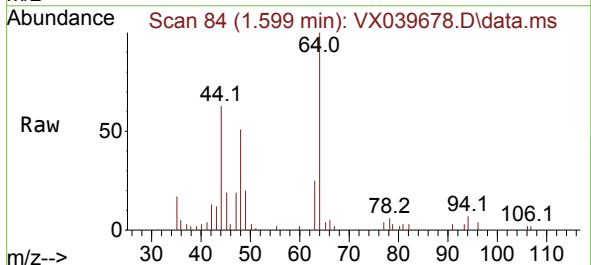


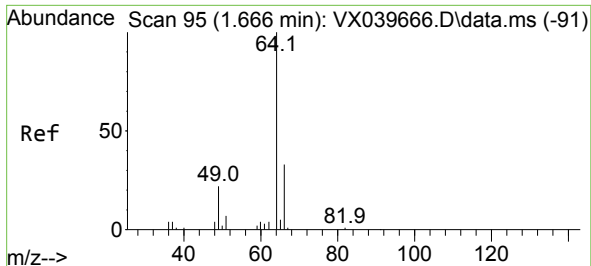
Tgt Ion:128 Resp: 7917
Ion Ratio Lower Upper
128 100
49 189.0 0.0 444.0
130 127.9 0.0 297.8



#5
Bromomethane
Concen: 0.440 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

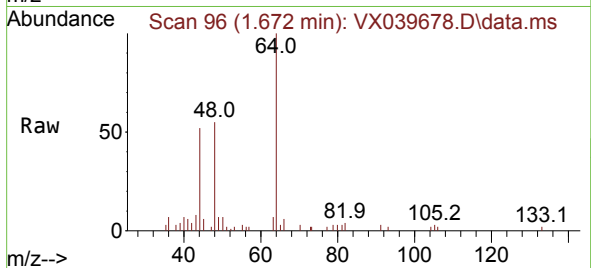
Tgt Ion: 94 Resp: 305
Ion Ratio Lower Upper
94 100
96 51.4 74.9 112.3#



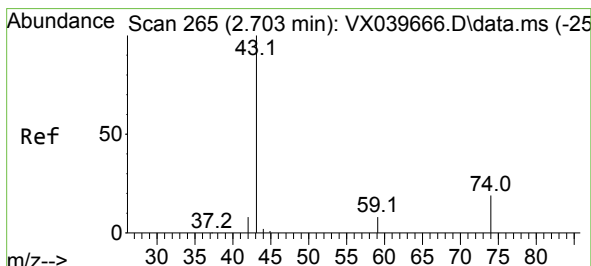
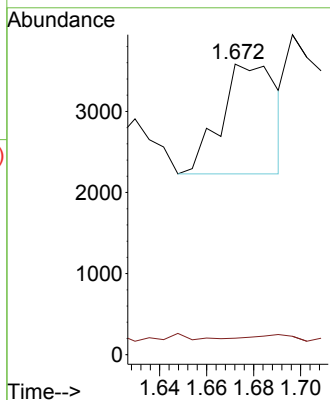
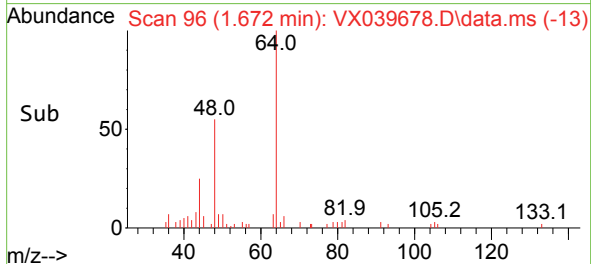


#6
Chloroethane
Concen: 3.361 ug/l
RT: 1.672 min Scan# 90
Delta R.T. 0.006 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Instrument :
MSVOA_X
ClientSampleId :

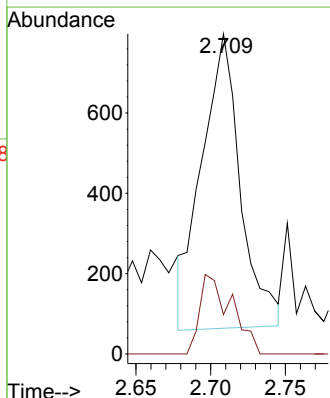
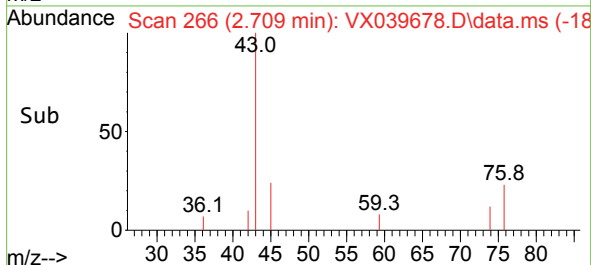
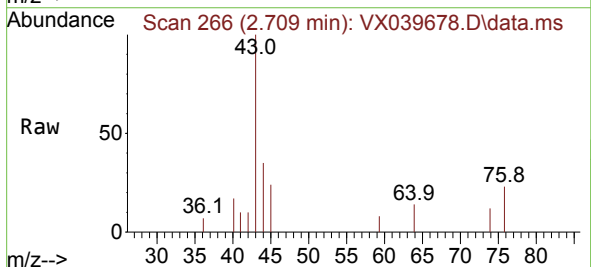


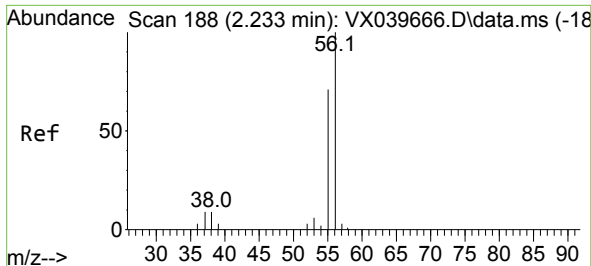
Tgt Ion: 64 Resp: 2219
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#12
Methyl Acetate
Concen: 0.680 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Tgt Ion: 43 Resp: 1316
Ion Ratio Lower Upper
43 100
74 16.0 17.8 26.6#





#13

Acrolein

Concen: 0.426 ug/l

RT: 2.245 min Scan# 19

Delta R.T. 0.012 min

Lab File: VX039678.D

Acq: 09 Jan 2024 14:28

Instrument :

MSVOA_X

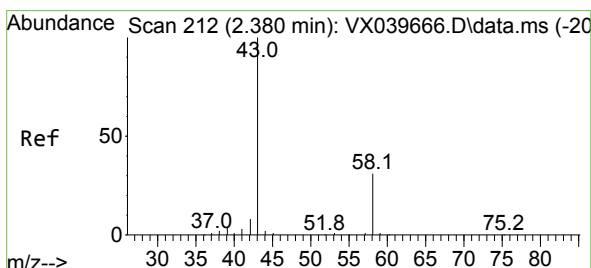
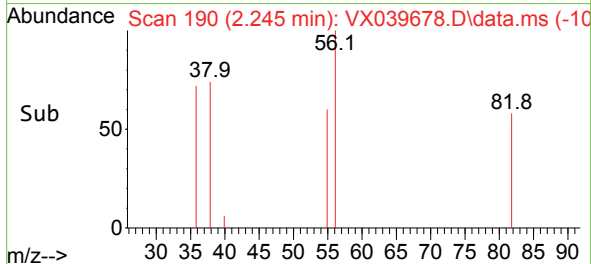
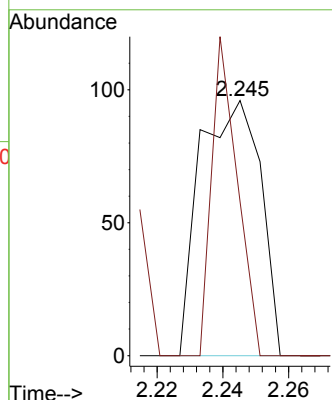
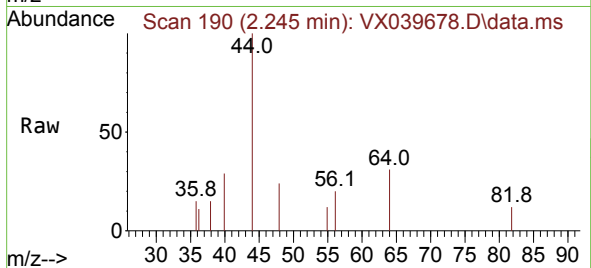
ClientSampleId :

Tgt Ion: 56 Resp: 123

Ion Ratio Lower Upper

56 100

55 52.8 57.2 85.8#



#15

Acetone

Concen: 322.476 ug/l

RT: 2.385 min Scan# 213

Delta R.T. 0.005 min

Lab File: VX039678.D

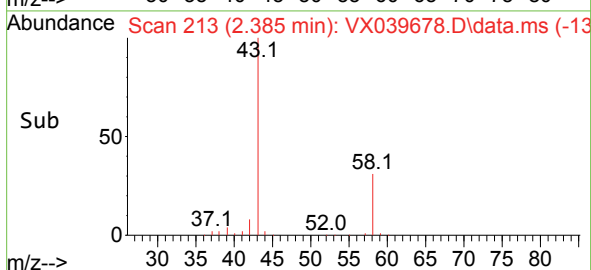
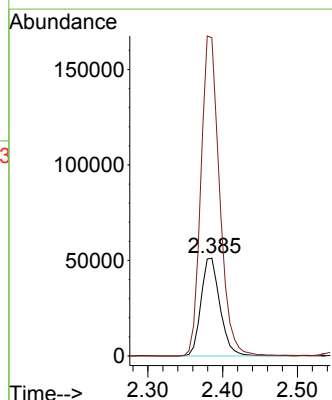
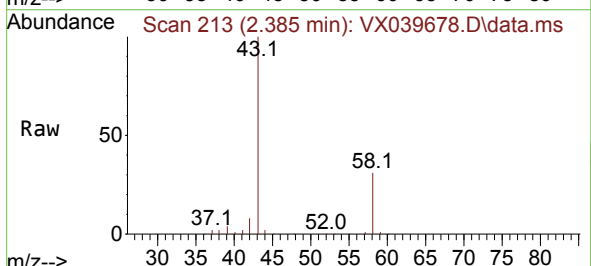
Acq: 09 Jan 2024 14:28

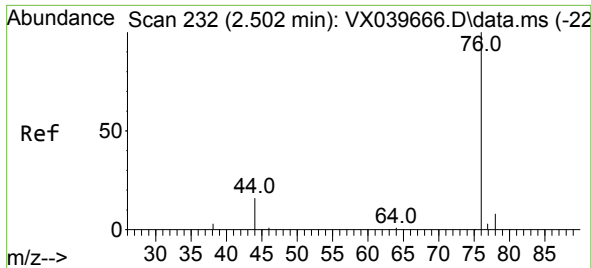
Tgt Ion: 58 Resp: 90291

Ion Ratio Lower Upper

58 100

43 325.4 249.9 374.9

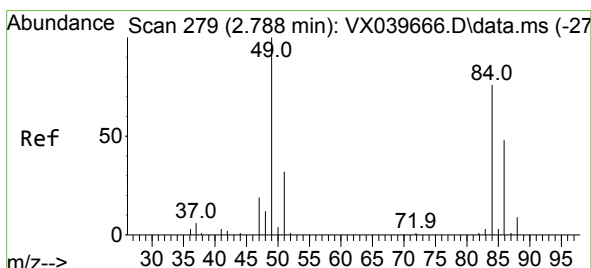
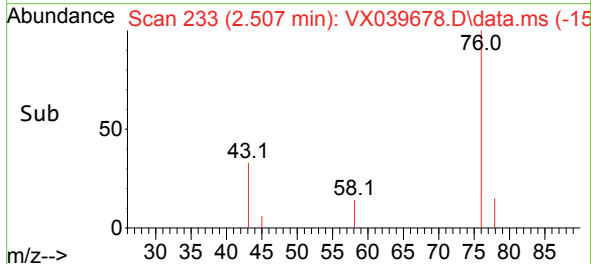
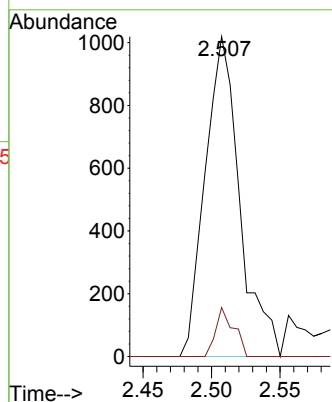
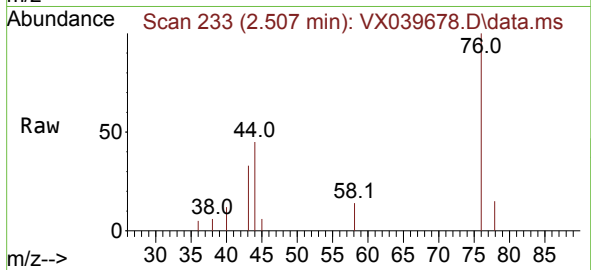




#16
Carbon Disulfide
Concen: 0.552 ug/l
RT: 2.507 min Scan# 21
Delta R.T. 0.005 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

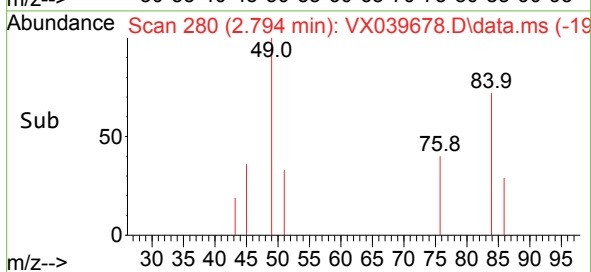
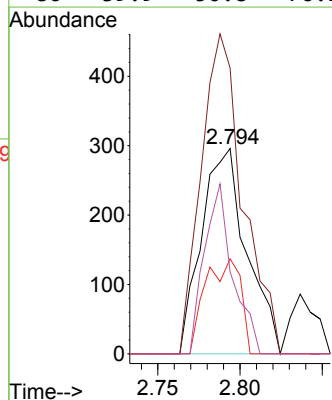
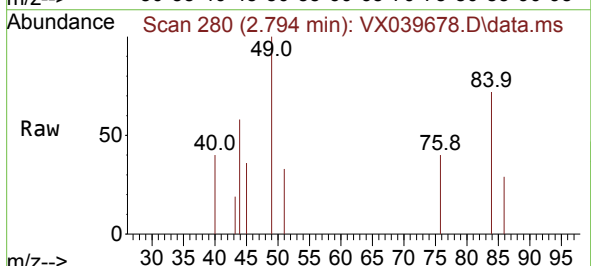
Instrument :
MSVOA_X
ClientSampleId :

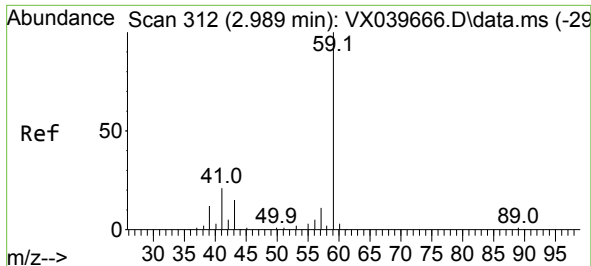
Tgt Ion: 76 Resp: 1789
Ion Ratio Lower Upper
76 100
78 15.3 8.0 12.0#



#18
Methylene Chloride
Concen: 0.401 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Tgt Ion: 84 Resp: 564
Ion Ratio Lower Upper
84 100
49 139.2 103.8 155.8
51 46.3 31.8 47.6
86 39.9 50.8 76.2#

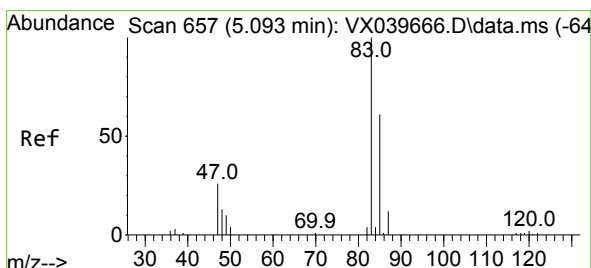
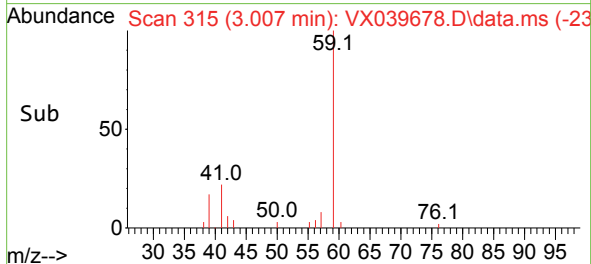
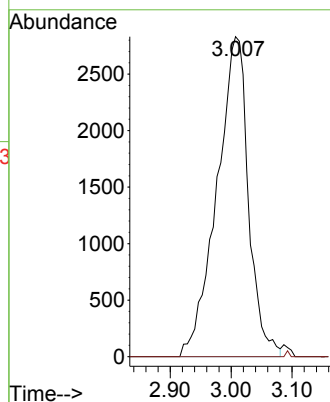
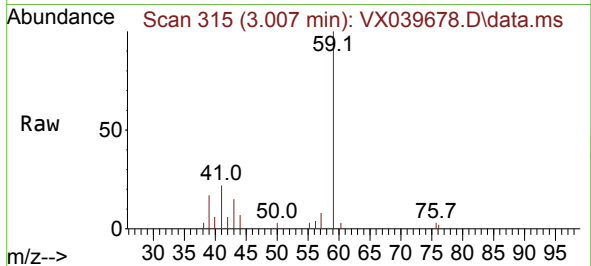




#23
tert-Butyl Alcohol
Concen: 24.544 ug/l
RT: 3.007 min Scan# 31
Delta R.T. 0.018 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

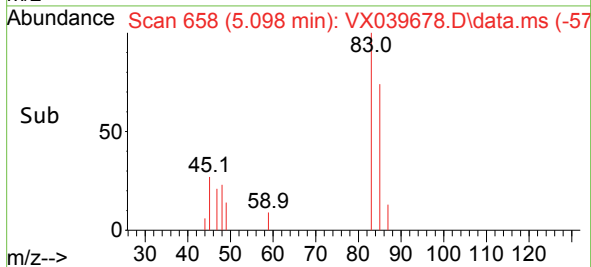
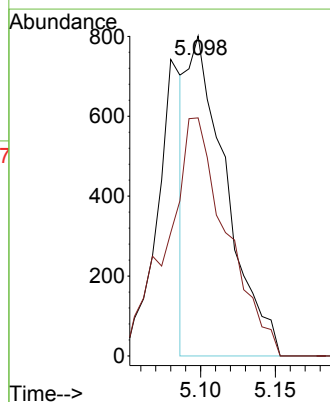
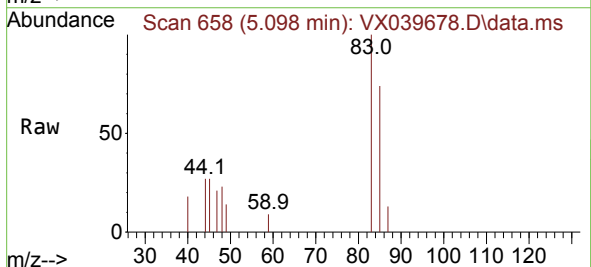
Instrument :
MSVOA_X
ClientSampleId :

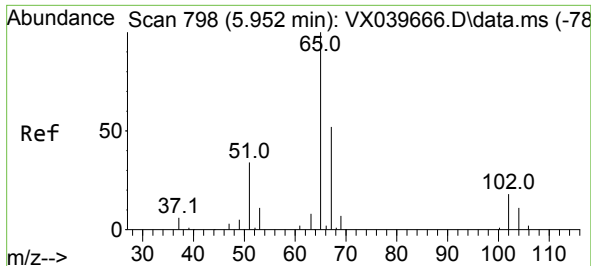
Tgt Ion: 59 Resp: 10206
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.580 ug/l
RT: 5.098 min Scan# 658
Delta R.T. 0.005 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Tgt Ion: 83 Resp: 1471
Ion Ratio Lower Upper
83 100
85 74.4 54.6 81.8





#27

1,2-Dichloroethane-d4

Concen: 29.784 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX039678.D

Acq: 09 Jan 2024 14:28

Instrument :

MSVOA_X

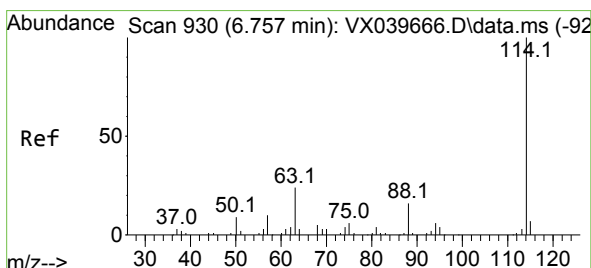
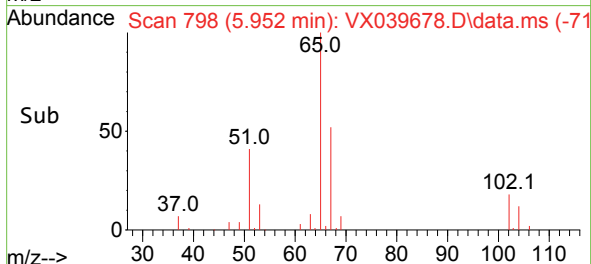
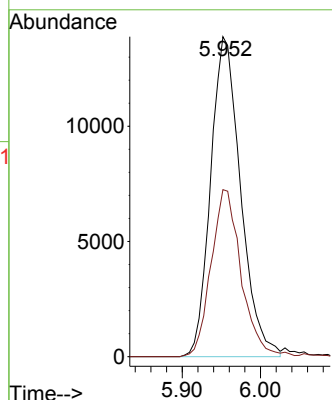
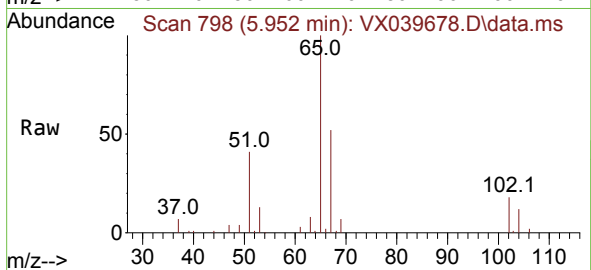
ClientSampleId :

Tgt Ion: 65 Resp: 36967

Ion Ratio Lower Upper

65 100

67 51.9 42.5 63.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX039678.D

Acq: 09 Jan 2024 14:28

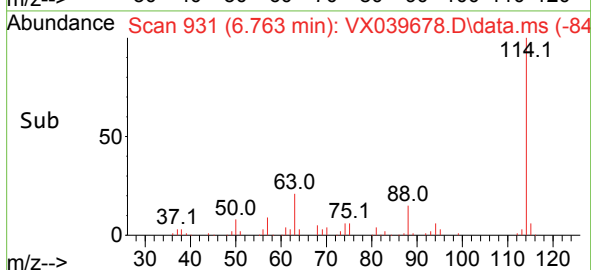
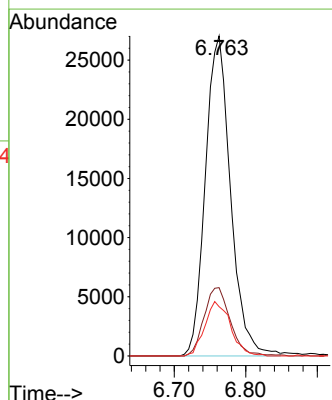
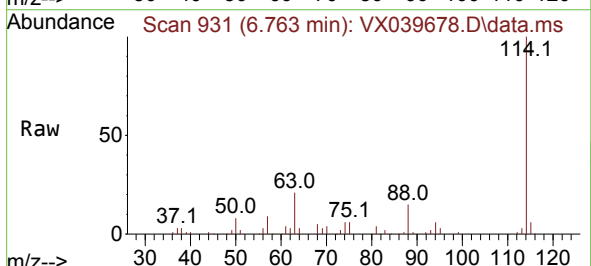
Tgt Ion: 114 Resp: 66183

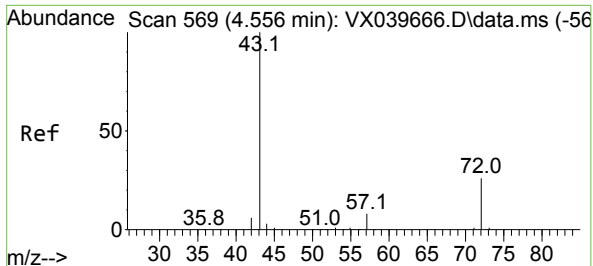
Ion Ratio Lower Upper

114 100

63 21.8 17.0 25.4

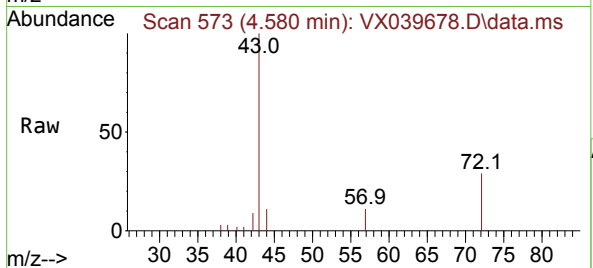
88 17.3 12.7 19.1



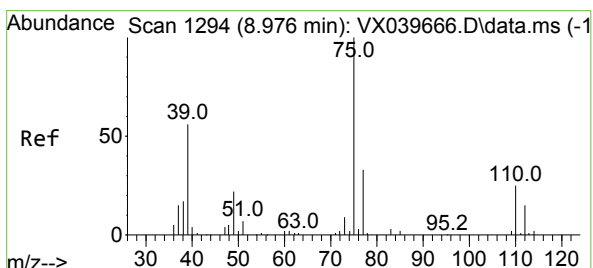
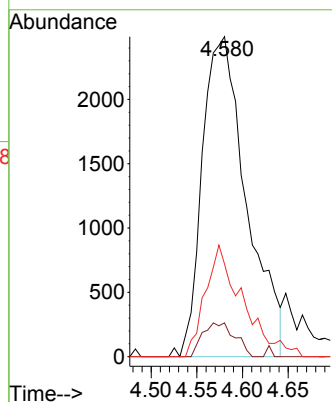
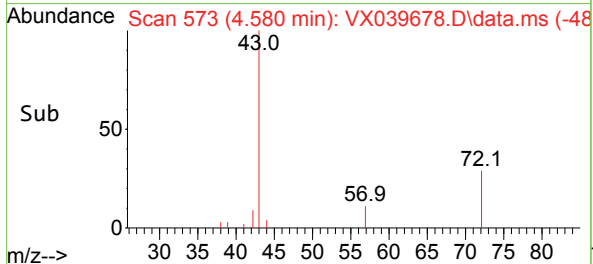


#30
2-Butanone
Concen: 6.133 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Instrument :
MSVOA_X
ClientSampleId :

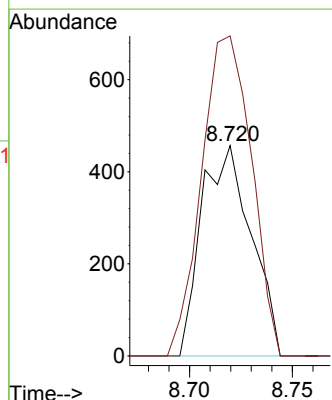
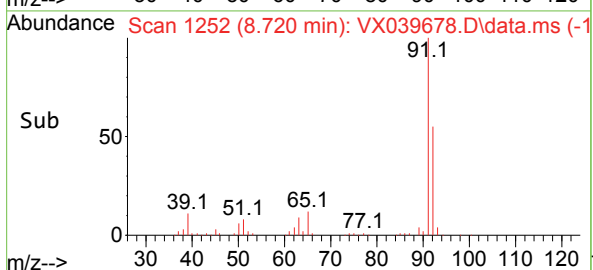
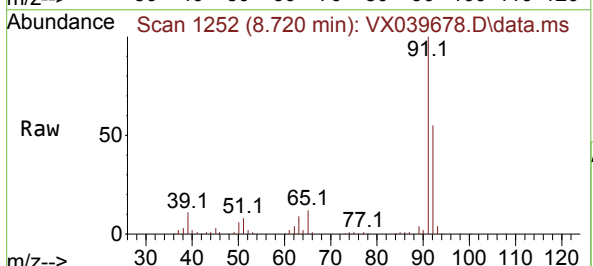


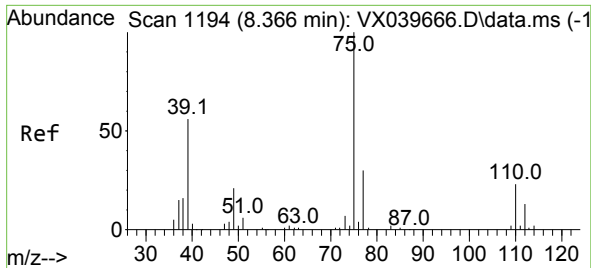
Tgt Ion: 43 Resp: 8354
Ion Ratio Lower Upper
43 100
57 6.8 6.6 10.0
72 20.2 20.6 31.0#



#48
t-1,3-Dichloropropene
Concen: 0.376 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.256 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Tgt Ion: 75 Resp: 768
Ion Ratio Lower Upper
75 100
77 152.1 26.8 40.2#





#49

cis-1,3-Dichloropropene

Concen: 0.343 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.354 min

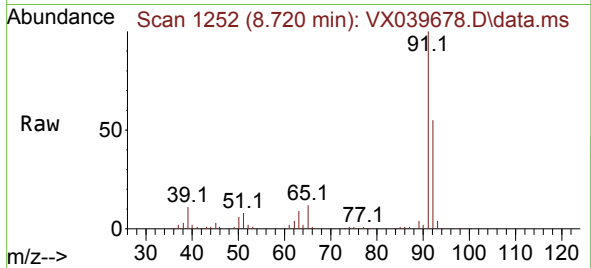
Lab File: VX039678.D

Acq: 09 Jan 2024 14:28

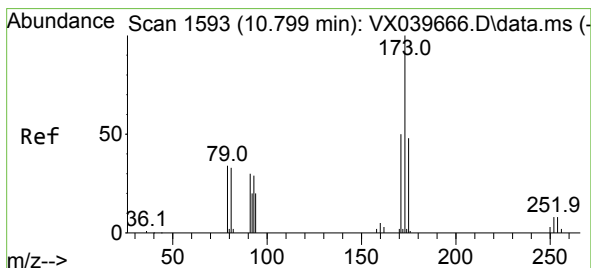
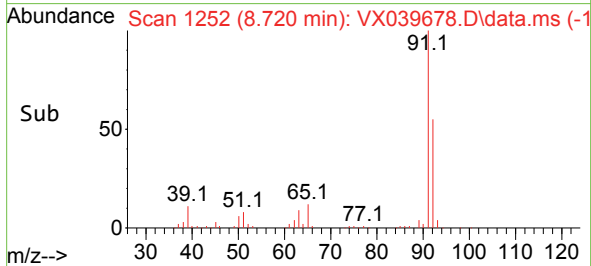
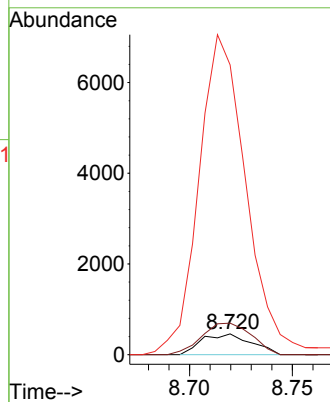
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	75	Resp:	768
Ion Ratio	Lower	Upper	
75	100		
77	152.1	24.4	36.6#
39	1300.9	40.6	60.8#



#56

Bromoform

Concen: 0.284 ug/l

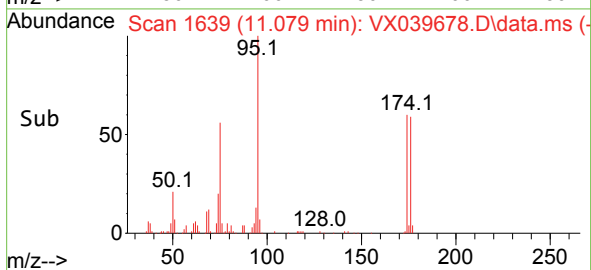
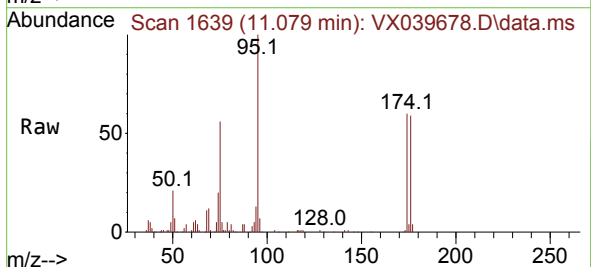
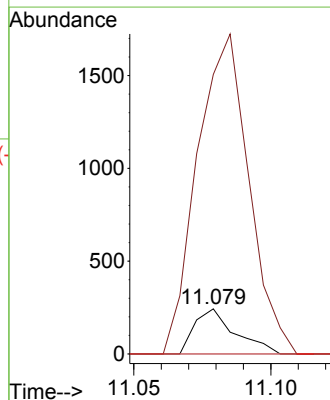
RT: 11.079 min Scan# 1639

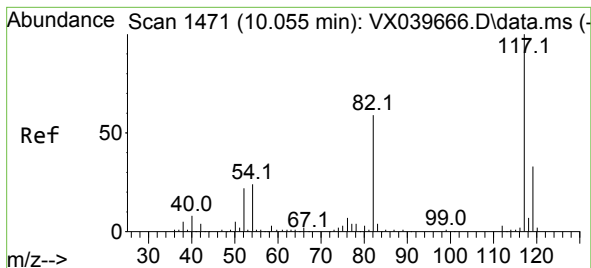
Delta R.T. 0.280 min

Lab File: VX039678.D

Acq: 09 Jan 2024 14:28

Tgt Ion:	173	Resp:	250
Ion Ratio	Lower	Upper	
173	100		
175	902.4	37.6	56.4#
254	0.0	5.8	8.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX039678.D

Acq: 09 Jan 2024 14:28

Instrument :

MSVOA_X

ClientSampleId :

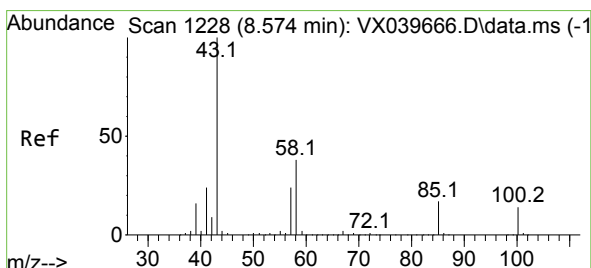
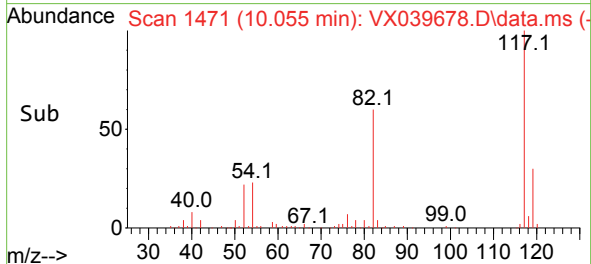
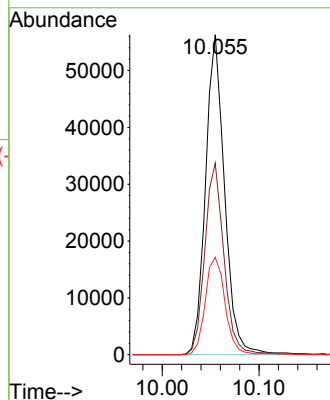
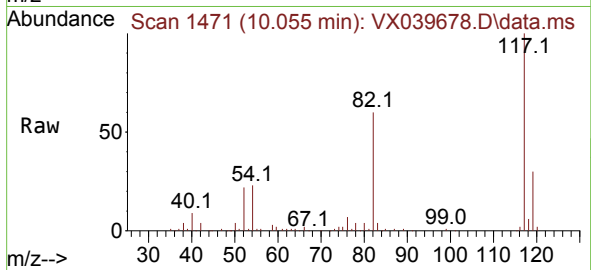
Tgt Ion:117 Resp: 77164

Ion Ratio Lower Upper

117 100

82 60.3 47.0 70.6

119 31.6 25.2 37.8



#58

4-Methyl-2-Pentanone

Concen: 1.208 ug/l

RT: 8.579 min Scan# 1229

Delta R.T. 0.005 min

Lab File: VX039678.D

Acq: 09 Jan 2024 14:28

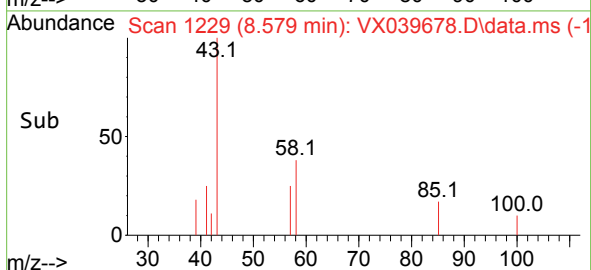
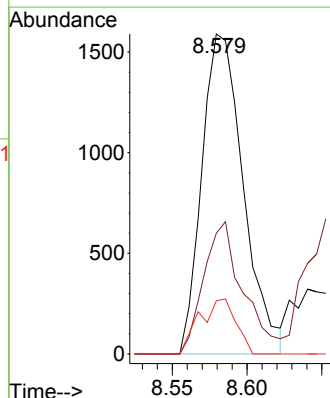
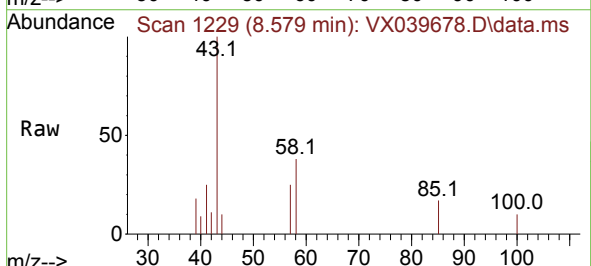
Tgt Ion: 43 Resp: 3066

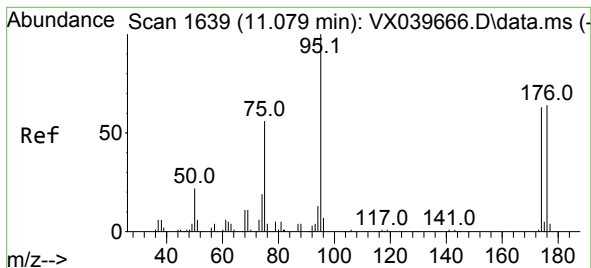
Ion Ratio Lower Upper

43 100

58 39.3 30.1 45.1

85 15.0 13.9 20.9

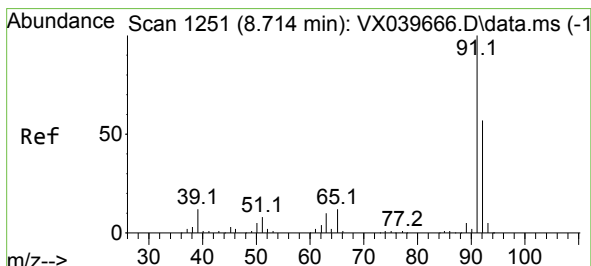
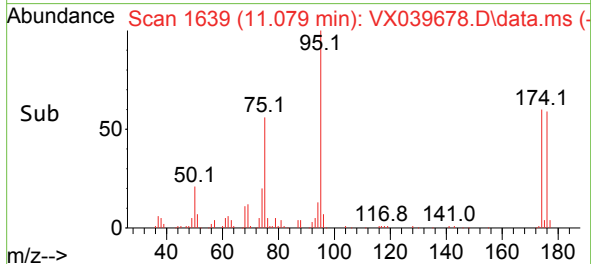
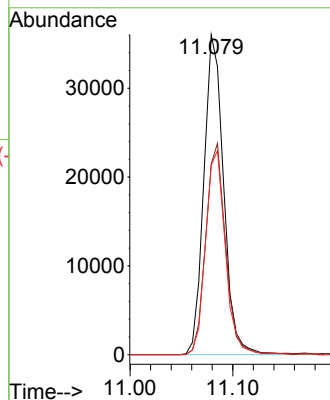
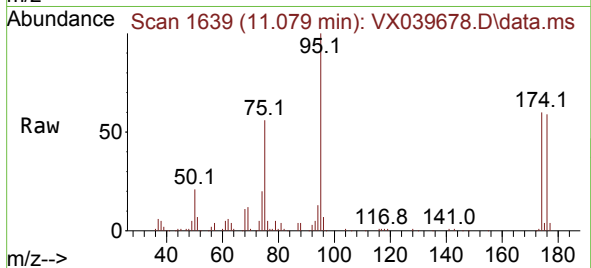




#60
4-Bromofluorobenzene
Concen: 28.375 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

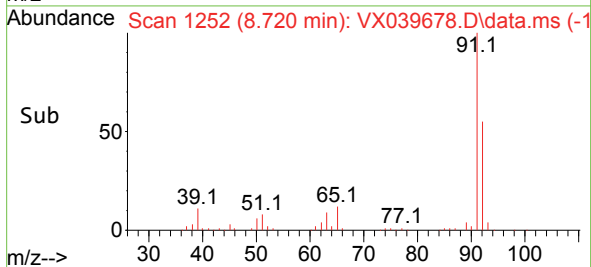
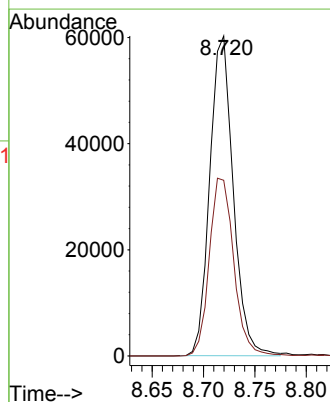
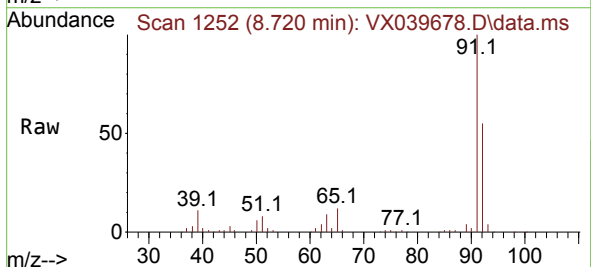
Instrument :
MSVOA_X
ClientSampleId :

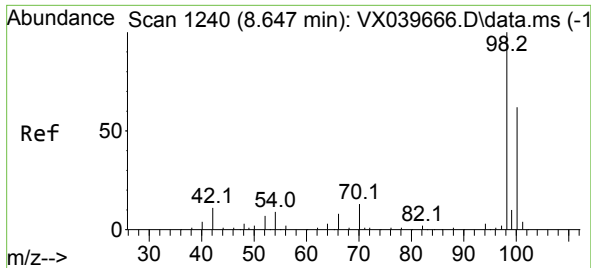
Tgt Ion: 95 Resp: 48292
Ion Ratio Lower Upper
95 100
174 66.1 55.4 83.2
176 63.4 52.6 78.8



#62
Toluene
Concen: 16.710 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Tgt Ion: 91 Resp: 95591
Ion Ratio Lower Upper
91 100
92 58.2 45.9 68.9

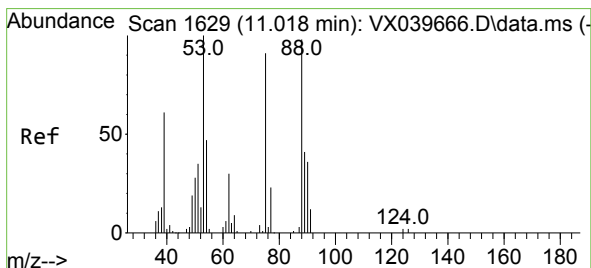
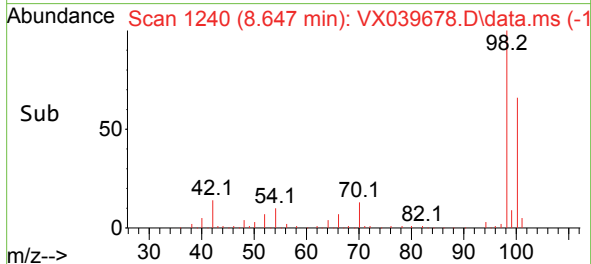
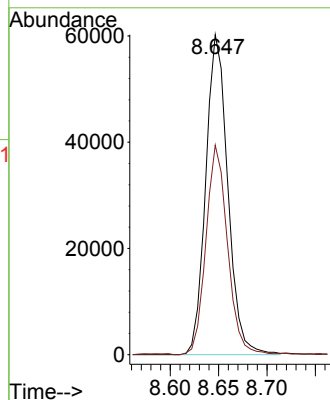
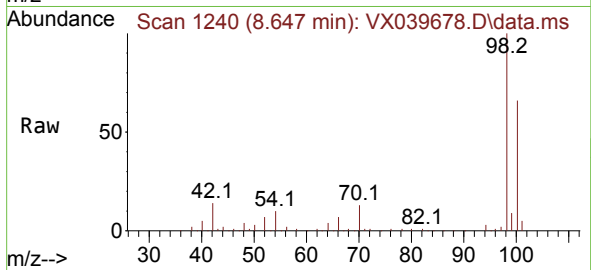




#63
Toluene-d8
Concen: 30.193 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

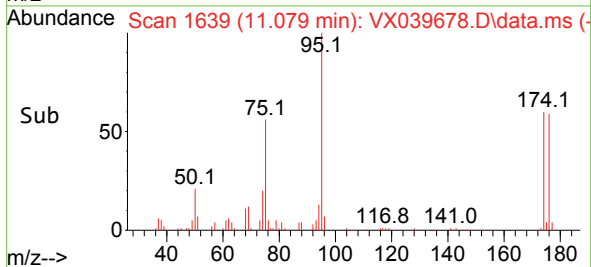
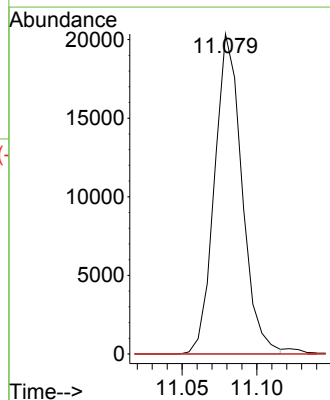
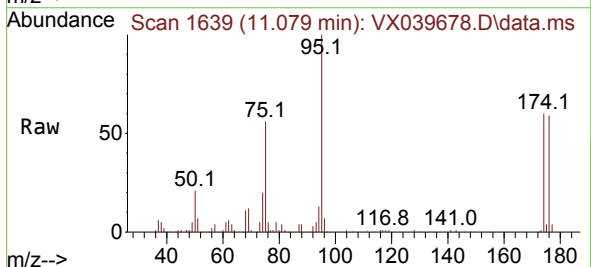
Instrument :
MSVOA_X
ClientSampleId :

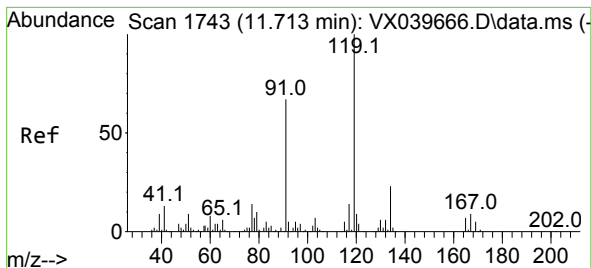
Tgt Ion: 98 Resp: 95787
Ion Ratio Lower Upper
98 100
100 63.9 51.0 76.4



#77
t-1,4-Dichloro-2-butene
Concen: 40.544 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

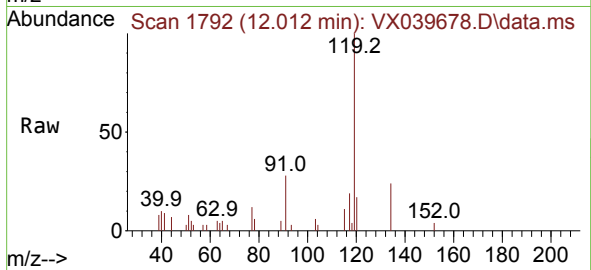
Tgt Ion: 75 Resp: 25988
Ion Ratio Lower Upper
75 100
53 0.0 46.9 140.8#
89 0.0 21.3 63.7#



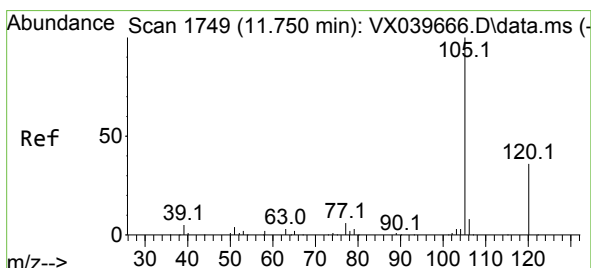
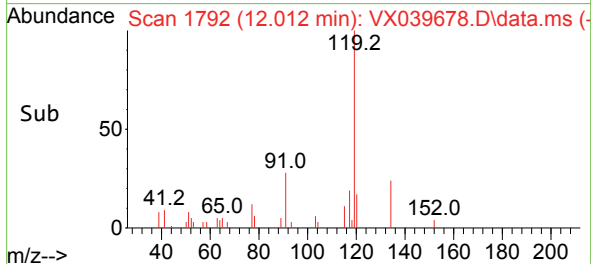
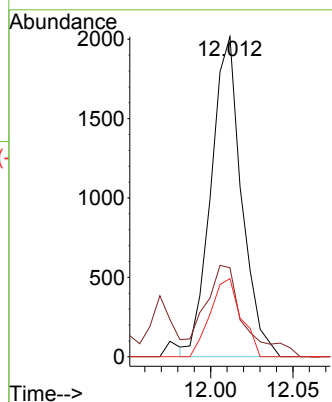


#79
tert-butylbenzene
Concen: 0.530 ug/l
RT: 12.012 min Scan# 11
Delta R.T. 0.299 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

Instrument :
MSVOA_X
ClientSampleId :

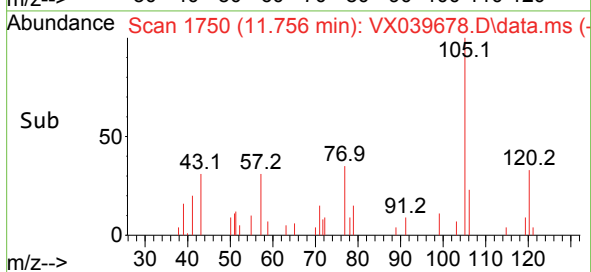
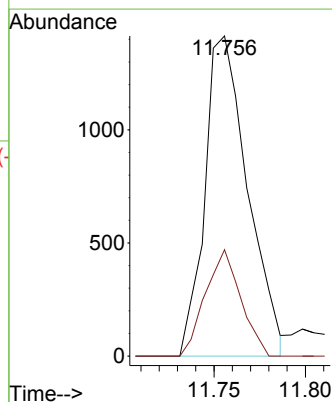
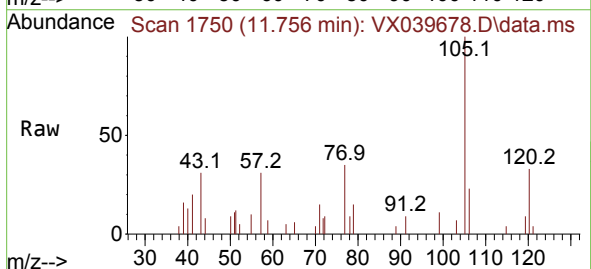


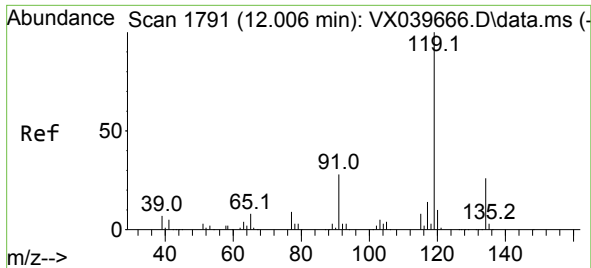
Tgt Ion:119 Resp: 2607
Ion Ratio Lower Upper
119 100
91 27.3 0.0 125.6
134 24.5 0.0 43.8



#80
1,2,4-Trimethylbenzene
Concen: 0.447 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX039678.D
Acq: 09 Jan 2024 14:28

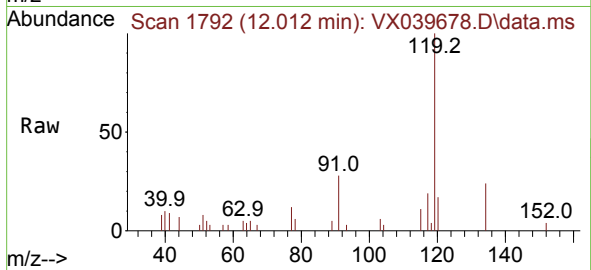
Tgt Ion:105 Resp: 2305
Ion Ratio Lower Upper
105 100
120 27.5 0.0 86.4



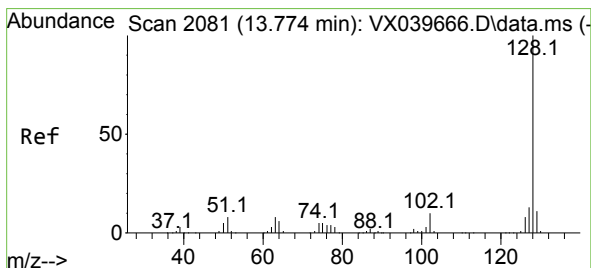
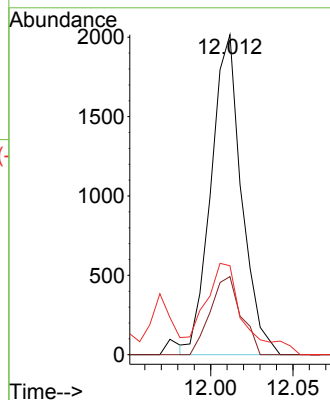
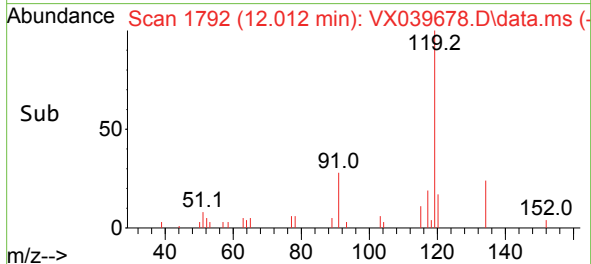


#82
 p-Isopropyltoluene
 Concen: 0.518 ug/l
 RT: 12.012 min Scan# 119
 Delta R.T. 0.006 min
 Lab File: VX039678.D
 Acq: 09 Jan 2024 14:28

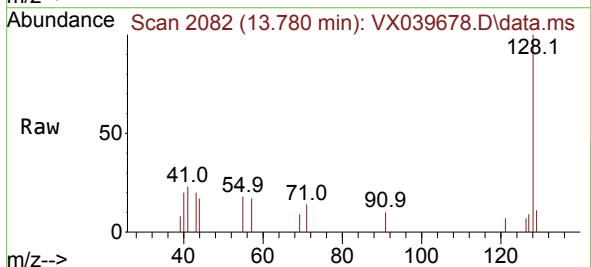
Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	119	Resp:	2607
Ion	Ratio	Lower	Upper
119	100		
134	24.5	0.0	52.6
91	27.3	0.0	54.2



#91
 Naphthalene
 Concen: 0.201 ug/l
 RT: 13.780 min Scan# 2082
 Delta R.T. 0.006 min
 Lab File: VX039678.D
 Acq: 09 Jan 2024 14:28



Tgt Ion:	128	Resp:	1109
Ion	Ratio	Lower	Upper
128	100		
127	6.8	10.2	15.2#
129	0.0	8.6	12.8#

