

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061724\
 Data File : VX041906.D
 Acq On : 17 Jun 2024 13:47
 Operator : JC/MD
 Sample : P2866-01RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 18 02:07:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

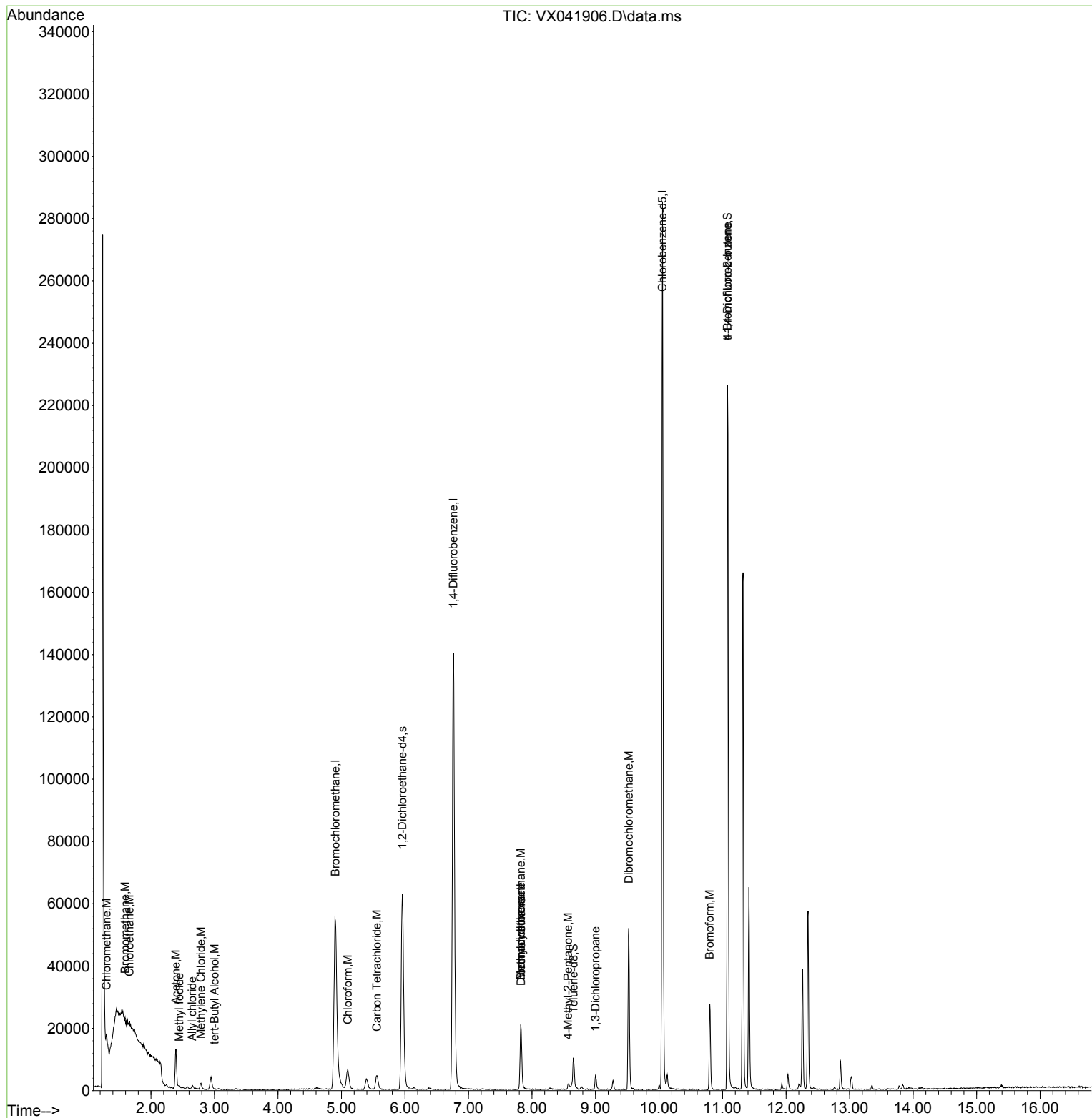
Internal Standards						
1) Bromochloromethane	4.904	128	29047	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	157529	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	140797	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	59822	29.917	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.733%
60) 4-Bromofluorobenzene	11.079	95	60149	27.599	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.000%
63) Toluene-d8	8.653	98	7107	1.180	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	3.933%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	5201	2.474	ug/l	93
5) Bromomethane	1.593	94	606	0.552	ug/l	98
6) Chloroethane	1.660	64	7421	8.450	ug/l #	48
11) Methyl Iodide	2.447	142	747	0.323	ug/l	97
15) Acetone	2.392	58	4630	15.067	ug/l	86
17) Allyl chloride	2.648	41	1368	0.507	ug/l #	48
18) Methylene Chloride	2.788	84	999	0.491	ug/l #	93
23) tert-Butyl Alcohol	3.002	59	199	0.498	ug/l #	100
25) Chloroform	5.099	83	8139	2.530	ug/l	100
33) Carbon Tetrachloride	5.556	117	480	0.214	ug/l #	13
38) Methylcyclohexane	7.824	83	13919	5.111	ug/l #	18
40) Dibromomethane	7.830	93	415	0.344	ug/l #	1
41) Bromodichloromethane	7.824	83	14301	6.614	ug/l	99
52) 1,3-Dichloropropane	9.000	76	703	0.245	ug/l #	42
53) Dibromochloromethane	9.525	129	25083	13.061	ug/l	98
56) Bromoform	10.799	173	11233	7.173	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	2885	1.143	ug/l #	41
77) t-1,4-Dichloro-2-butene	11.079	75	26829	32.941	ug/l #	7

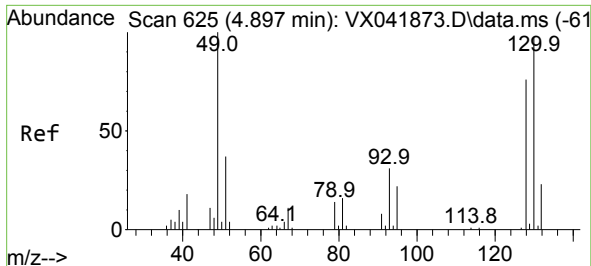
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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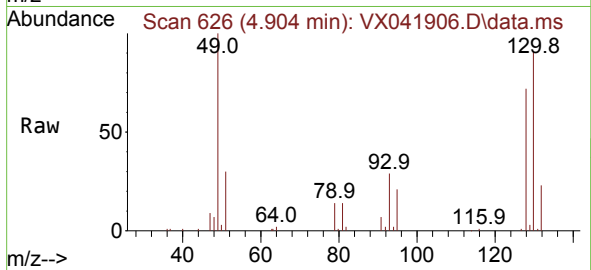
Quant Time: Jun 18 02:07:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
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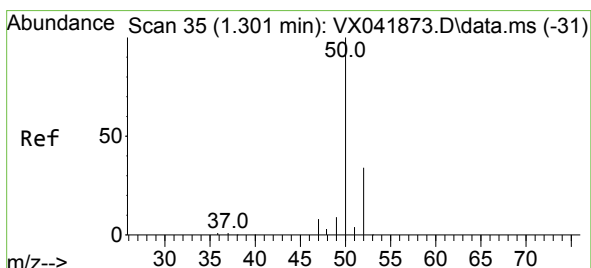
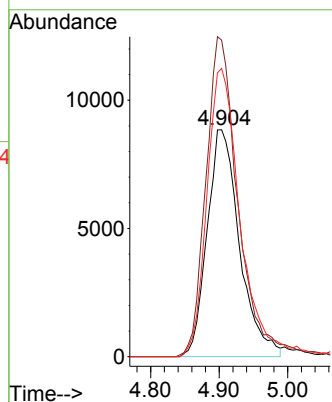
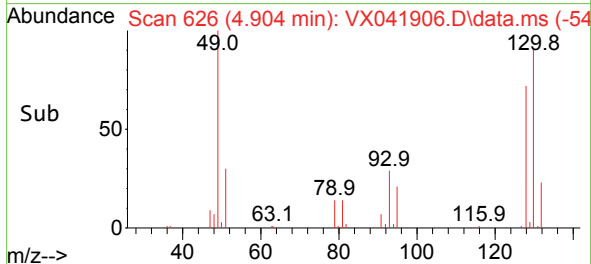


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Instrument :
MSVOA_X
ClientSampleId :

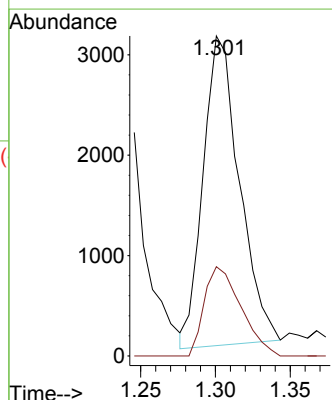
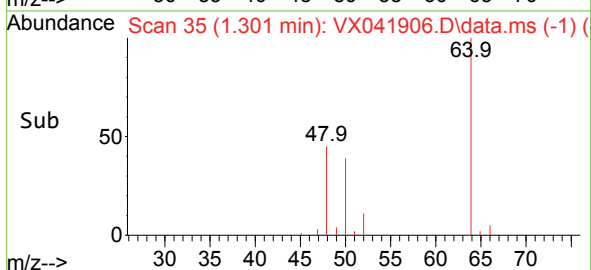
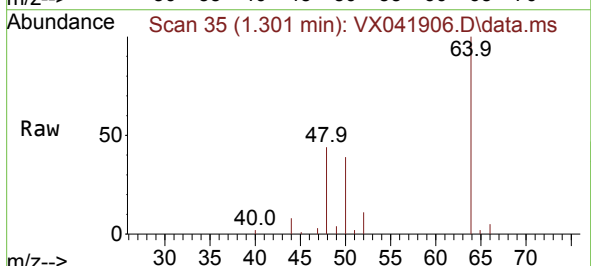


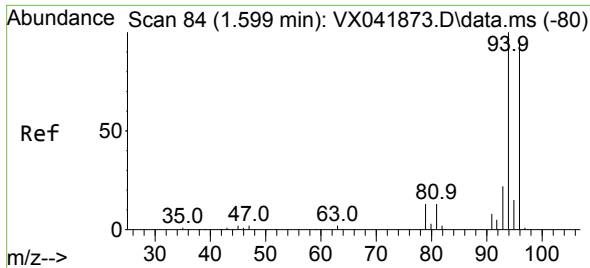
Tgt Ion:128 Resp: 29047
Ion Ratio Lower Upper
128 100
49 139.8 0.0 338.5
130 129.0 0.0 324.5



#3
Chloromethane
Concen: 2.474 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

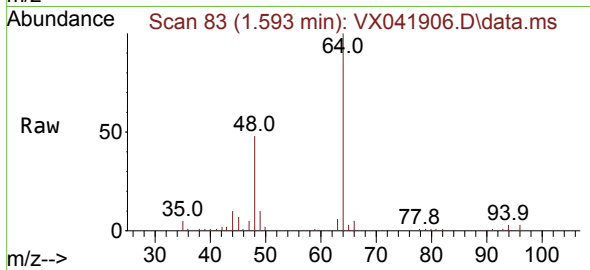
Tgt Ion: 50 Resp: 5201
Ion Ratio Lower Upper
50 100
52 29.4 26.9 40.3



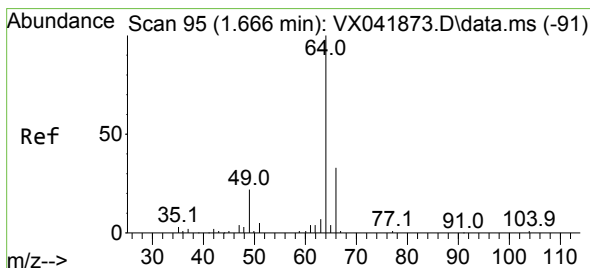
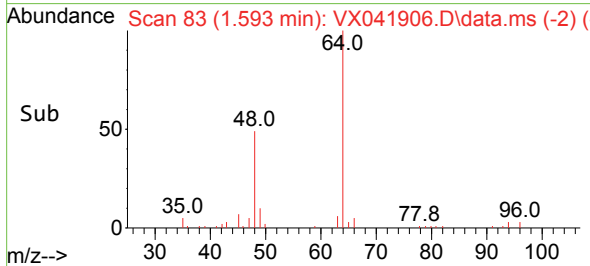
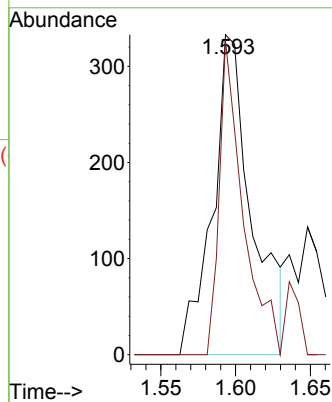


#5
Bromomethane
Concen: 0.552 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Instrument :
MSVOA_X
ClientSampleId :

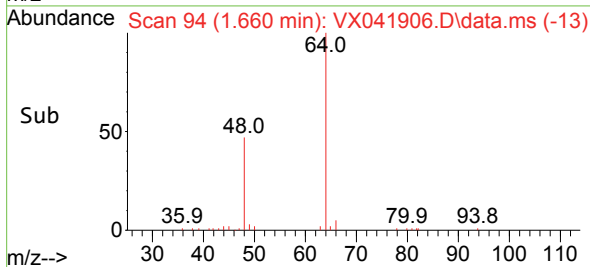
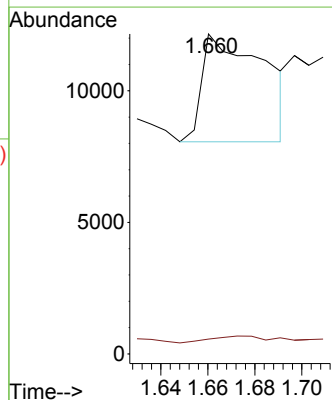
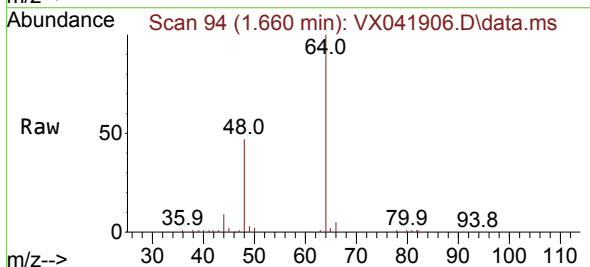


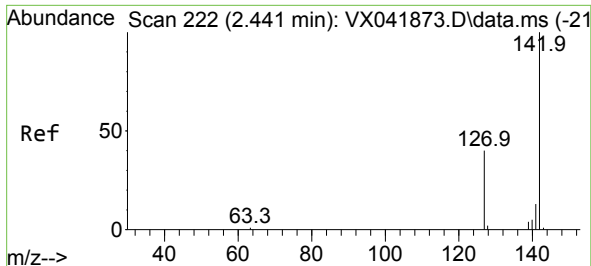
Tgt Ion: 94 Resp: 606
Ion Ratio Lower Upper
94 100
96 98.2 76.6 115.0



#6
Chloroethane
Concen: 8.450 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

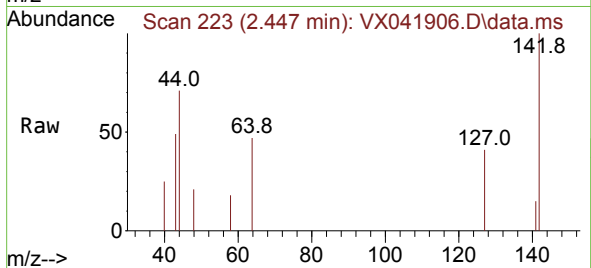
Tgt Ion: 64 Resp: 7421
Ion Ratio Lower Upper
64 100
66 3.6 26.4 39.6#



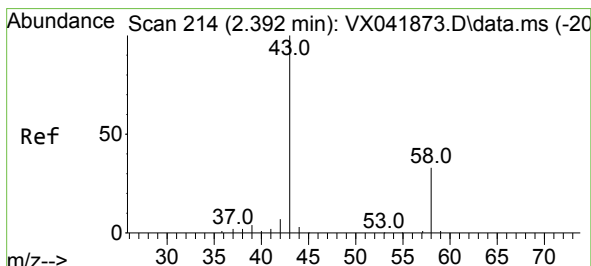
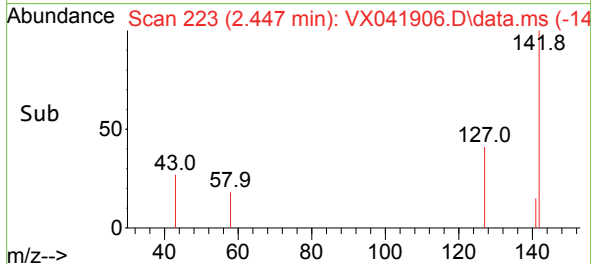
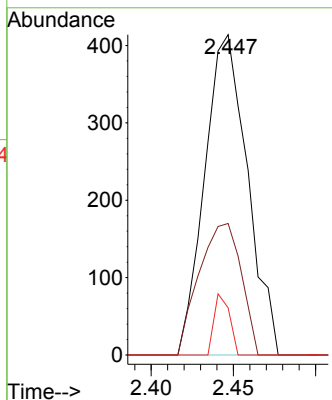


#11
Methyl Iodide
Concen: 0.323 ug/l
RT: 2.447 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Instrument :
MSVOA_X
ClientSampleId :

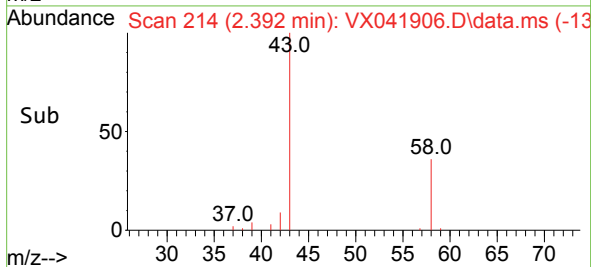
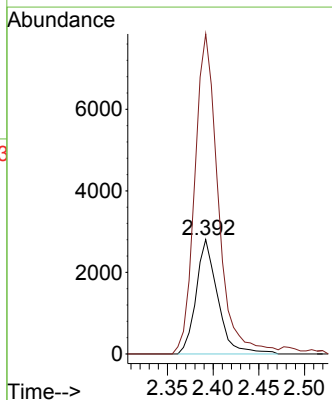
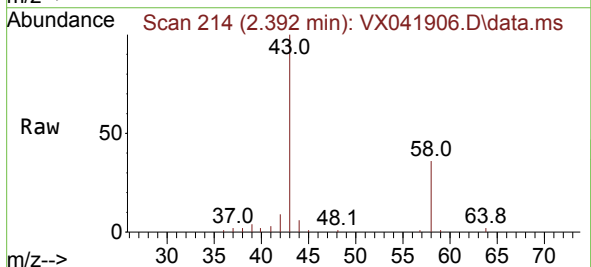


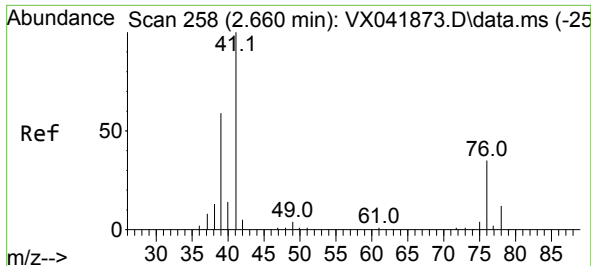
Tgt Ion:142 Resp: 747
Ion Ratio Lower Upper
142 100
127 41.1 19.8 59.3
141 14.7 6.7 20.1



#15
Acetone
Concen: 15.067 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Tgt Ion: 58 Resp: 4630
Ion Ratio Lower Upper
58 100
43 276.0 243.4 365.2





#17

Allyl chloride

Concen: 0.507 ug/l

RT: 2.648 min Scan# 256

Delta R.T. -0.012 min

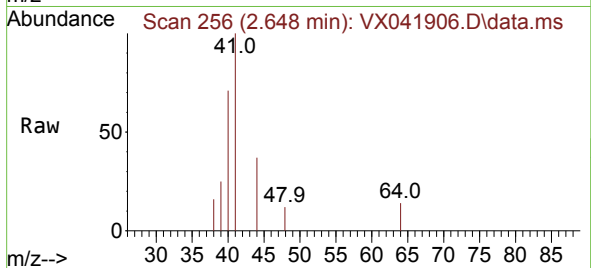
Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

Instrument :

MSVOA_X

ClientSampleId :



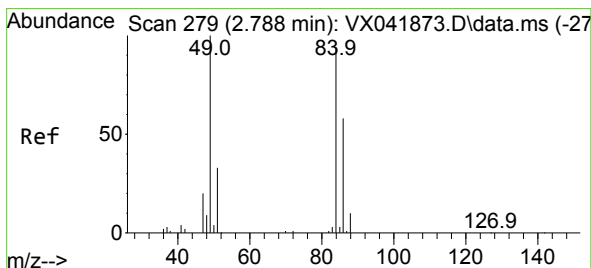
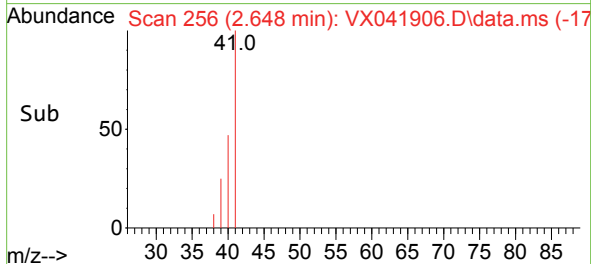
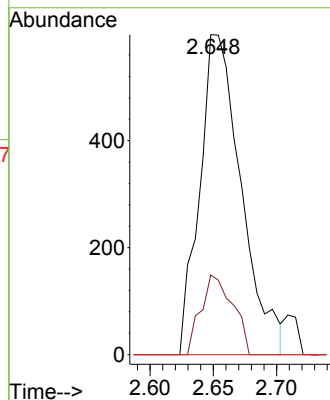
Tgt Ion: 41 Resp: 1368

Ion Ratio Lower Upper

41 100

39 24.9 29.6 88.8#

76 0.0 18.1 54.4#



#18

Methylene Chloride

Concen: 0.491 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

Tgt Ion: 84 Resp: 999

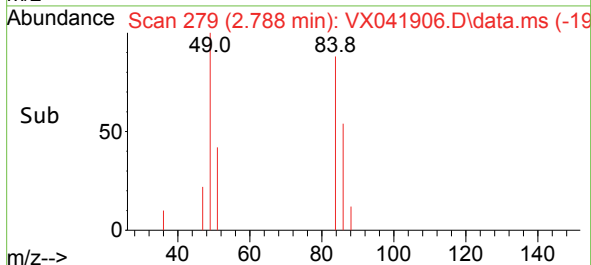
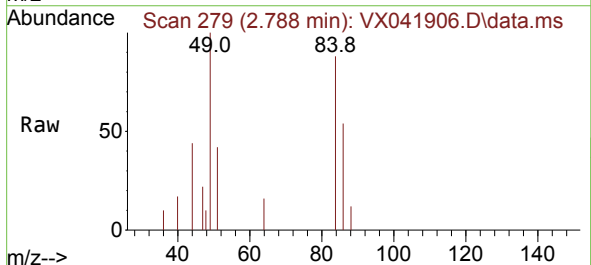
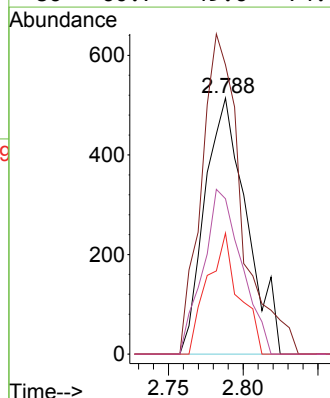
Ion Ratio Lower Upper

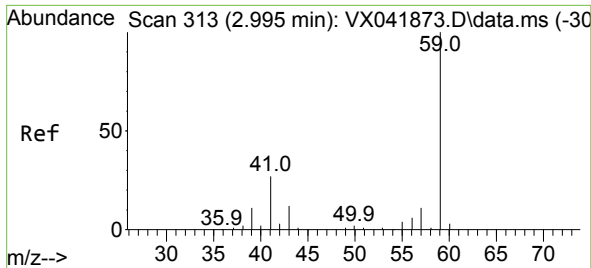
84 100

49 113.0 85.3 127.9

51 47.3 28.5 42.7#

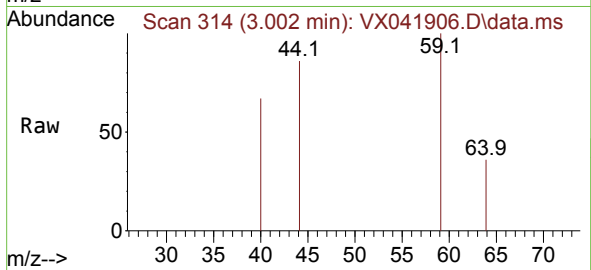
86 60.7 49.6 74.4



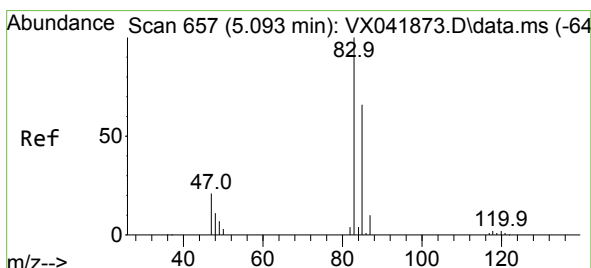
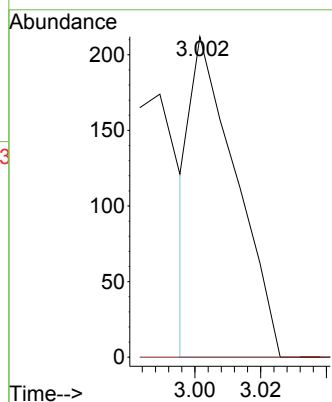
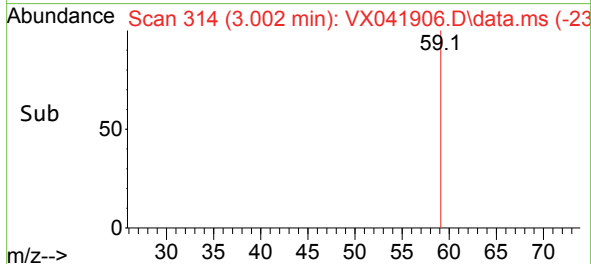


#23
tert-Butyl Alcohol
Concen: 0.498 ug/l
RT: 3.002 min Scan# 313
Delta R.T. 0.006 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Instrument :
MSVOA_X
ClientSampleId :

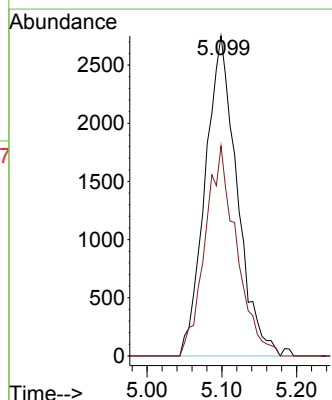
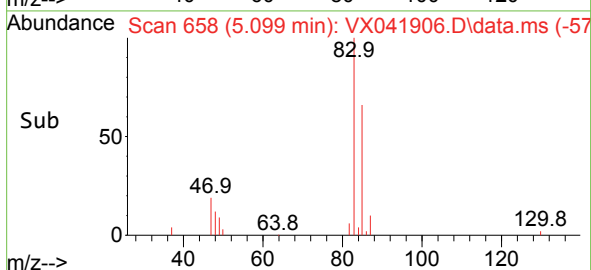
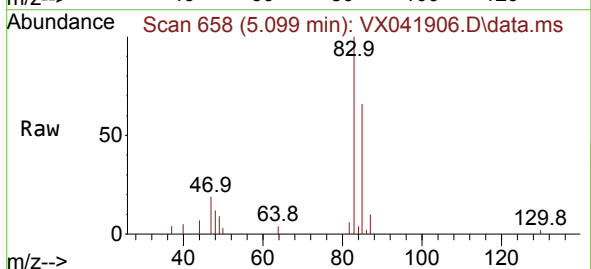


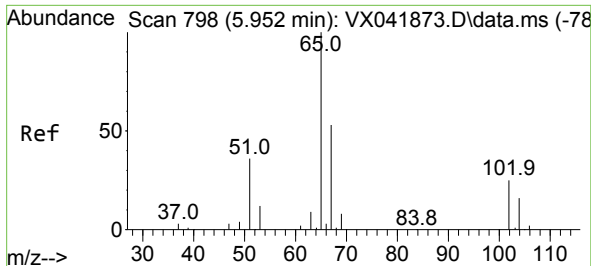
Tgt Ion: 59 Resp: 199
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 2.530 ug/l
RT: 5.099 min Scan# 658
Delta R.T. 0.006 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Tgt Ion: 83 Resp: 8139
Ion Ratio Lower Upper
83 100
85 65.6 52.7 79.1





#27

1,2-Dichloroethane-d4

Concen: 29.917 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

Instrument :

MSVOA_X

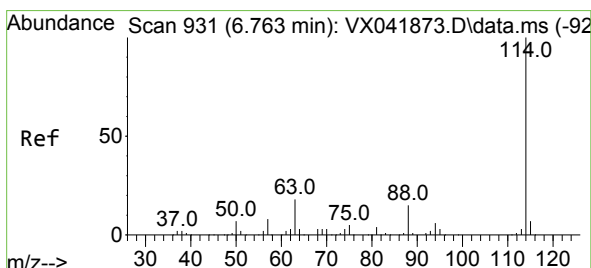
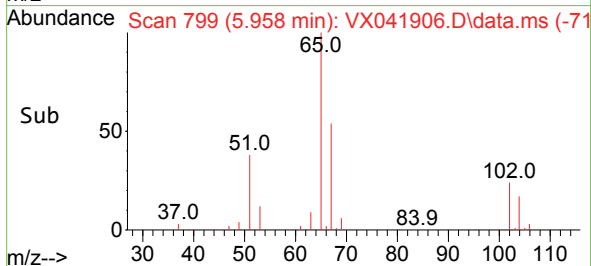
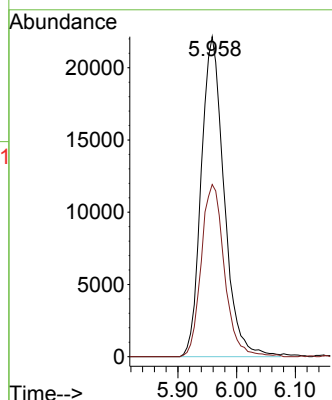
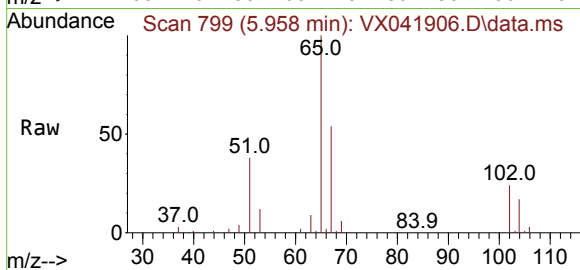
ClientSampleId :

Tgt Ion: 65 Resp: 59822

Ion Ratio Lower Upper

65 100

67 54.5 43.4 65.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

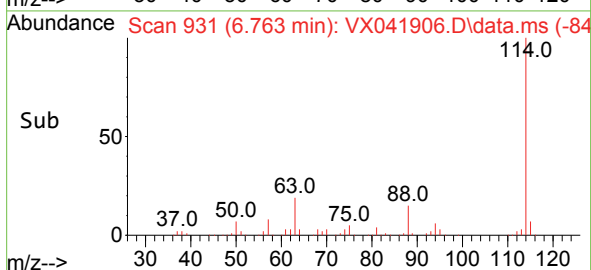
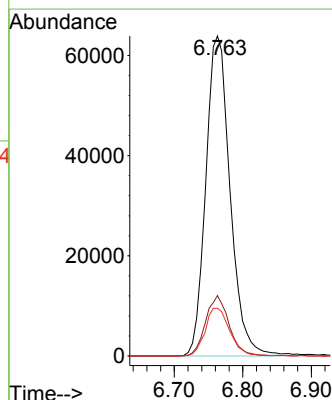
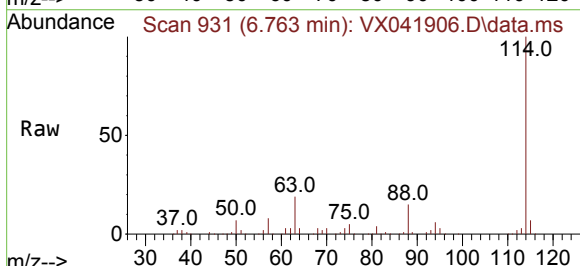
Tgt Ion: 114 Resp: 157529

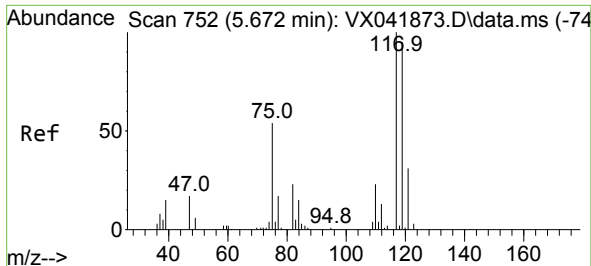
Ion Ratio Lower Upper

114 100

63 18.2 14.6 21.8

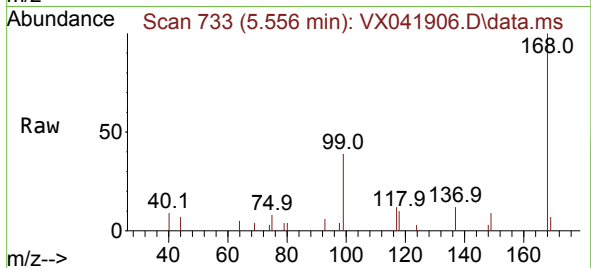
88 15.1 11.8 17.8



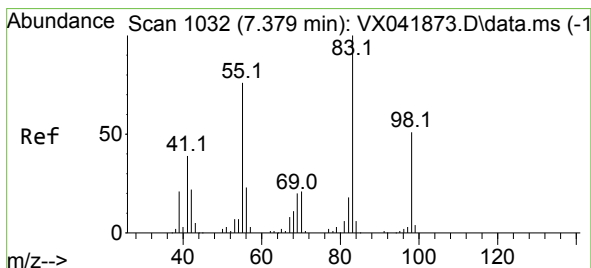
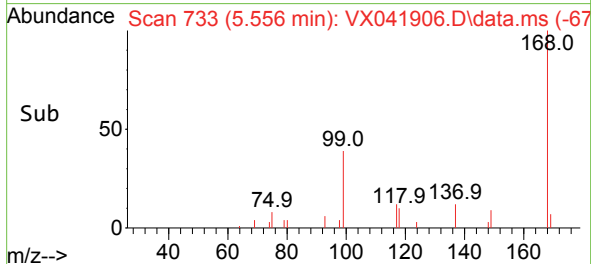
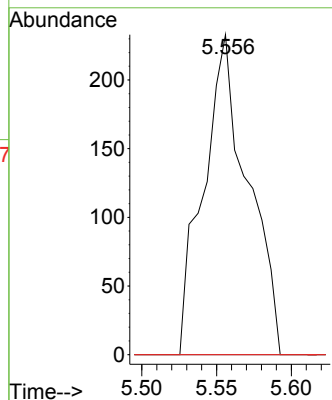


#33
Carbon Tetrachloride
Concen: 0.214 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.116 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Instrument :
MSVOA_X
ClientSampleId :

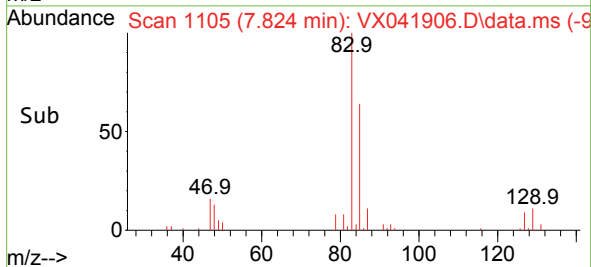
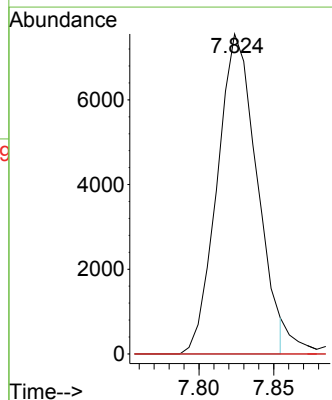
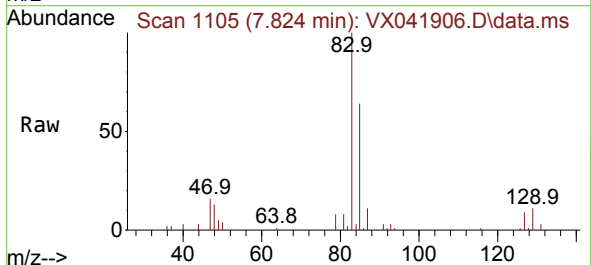


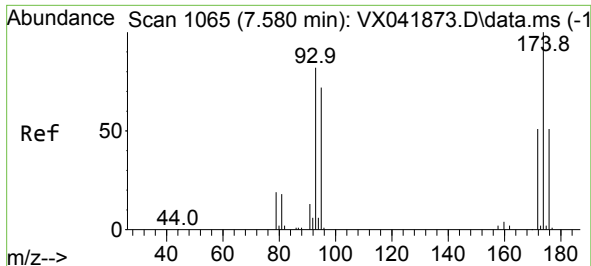
Tgt Ion:117 Resp: 480
Ion Ratio Lower Upper
117 100
119 0.0 75.7 113.5#
121 0.0 24.9 37.3#



#38
Methylcyclohexane
Concen: 5.111 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.445 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Tgt Ion: 83 Resp: 13919
Ion Ratio Lower Upper
83 100
55 0.0 37.3 111.9#
98 0.0 24.8 74.4#

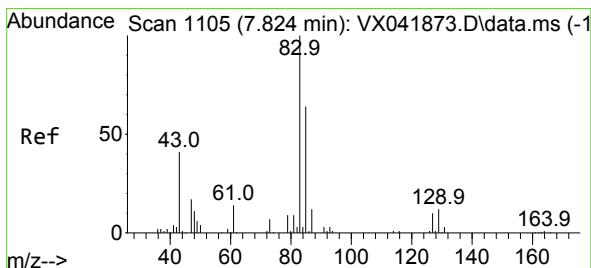
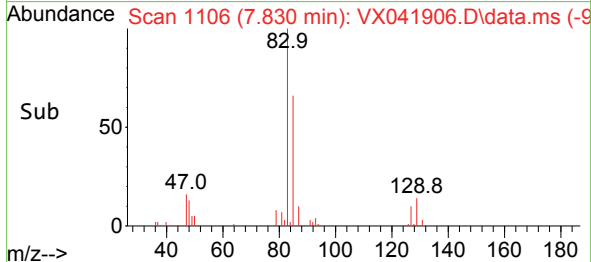
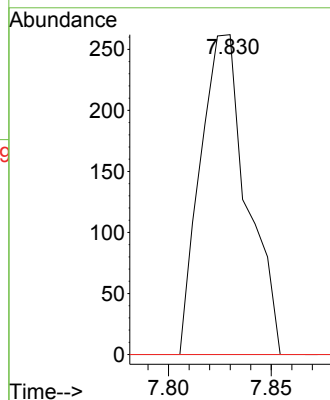
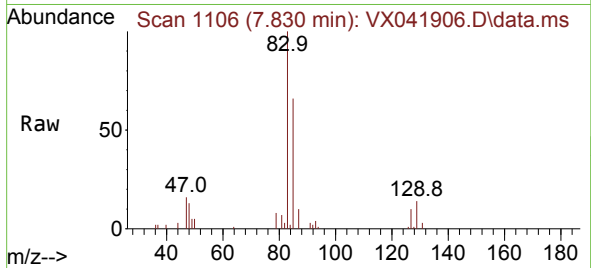




#40
Dibromomethane
Concen: 0.344 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.250 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

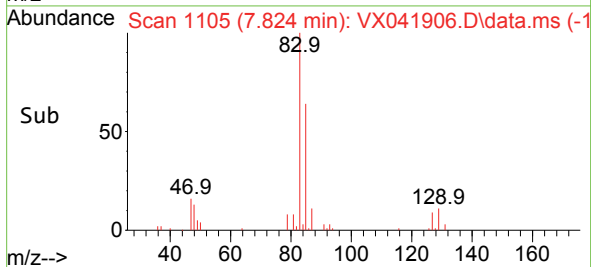
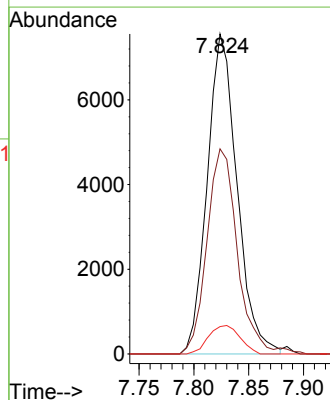
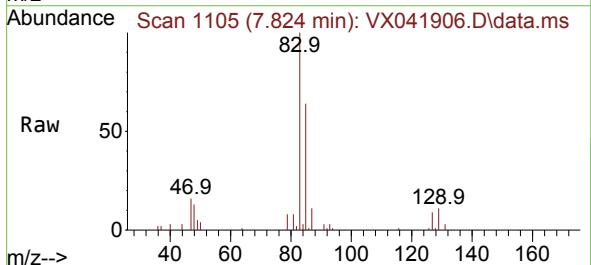
Instrument :
MSVOA_X
ClientSampleId :

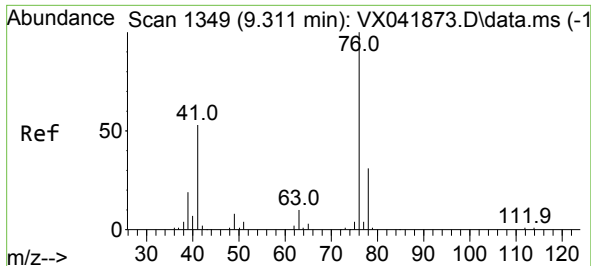
Tgt Ion: 93 Resp: 415
Ion Ratio Lower Upper
93 100
95 0.0 0.0 168.6
174 0.0 0.0 255.0



#41
Bromodichloromethane
Concen: 6.614 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VX041906.D
Acq: 17 Jun 2024 13:47

Tgt Ion: 83 Resp: 14301
Ion Ratio Lower Upper
83 100
85 64.1 51.1 76.7
127 8.6 8.1 12.1





#52

1,3-Dichloropropane

Concen: 0.245 ug/l

RT: 9.000 min Scan# 11

Delta R.T. -0.311 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

Instrument :

MSVOA_X

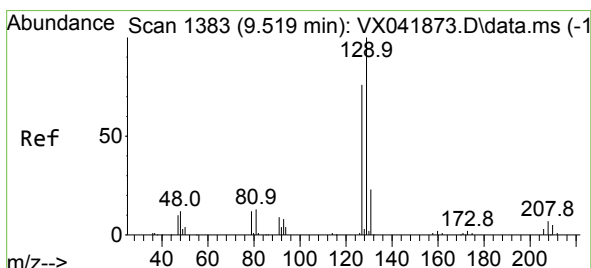
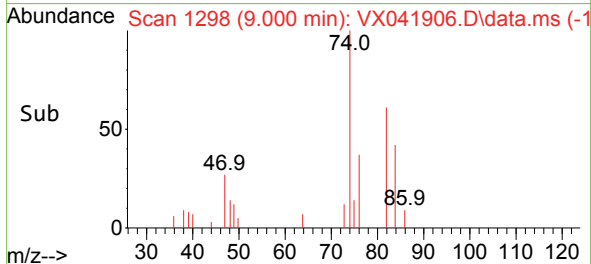
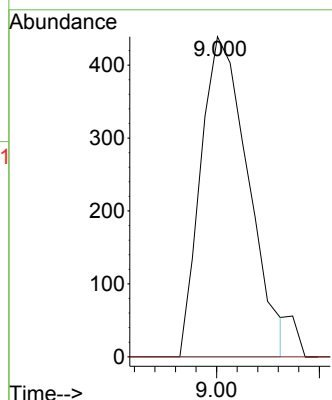
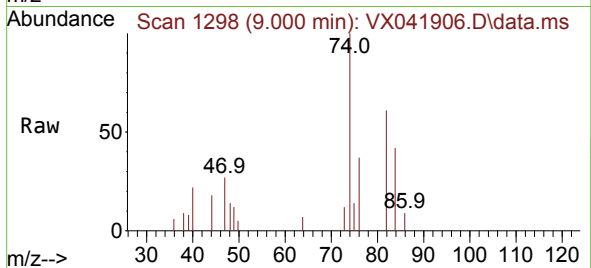
ClientSampleId :

Tgt Ion: 76 Resp: 703

Ion Ratio Lower Upper

76 100

78 0.0 0.0 66.0



#53

Dibromochloromethane

Concen: 13.061 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VX041906.D

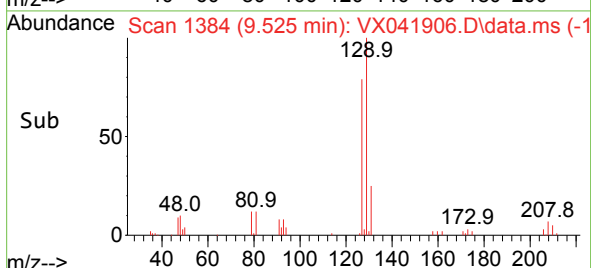
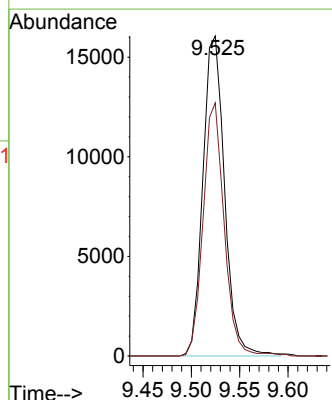
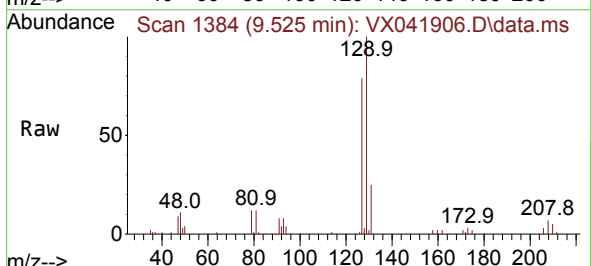
Acq: 17 Jun 2024 13:47

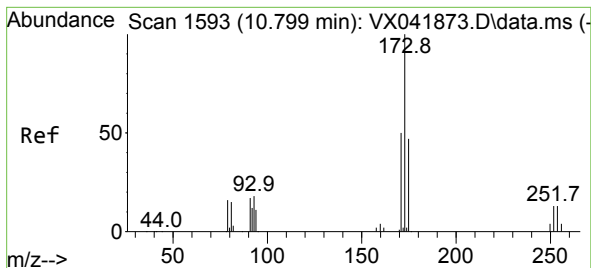
Tgt Ion: 129 Resp: 25083

Ion Ratio Lower Upper

129 100

127 76.2 38.8 116.4





#56

Bromoform

Concen: 7.173 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

Instrument :

MSVOA_X

ClientSampleId :

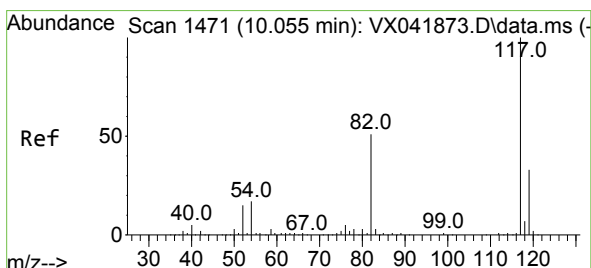
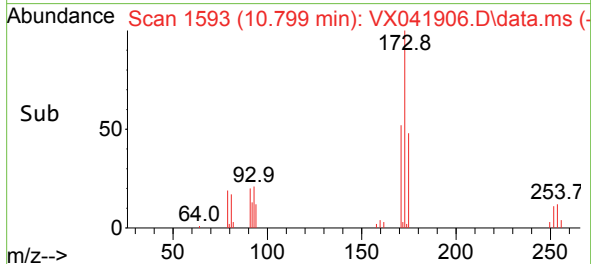
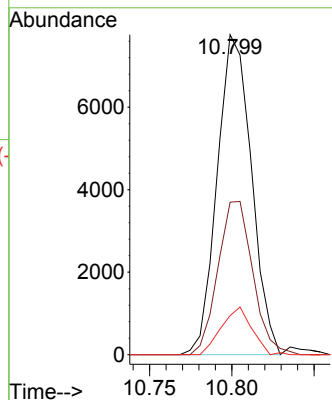
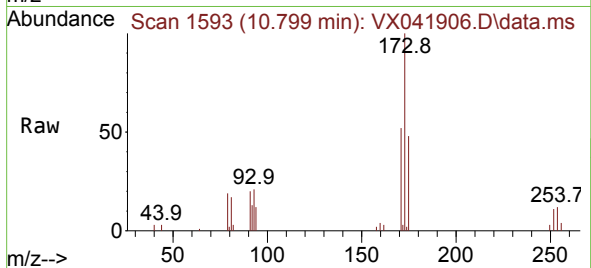
Tgt Ion:173 Resp: 11233

Ion Ratio Lower Upper

173 100

175 48.8 39.3 58.9

254 13.0 9.6 14.4



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

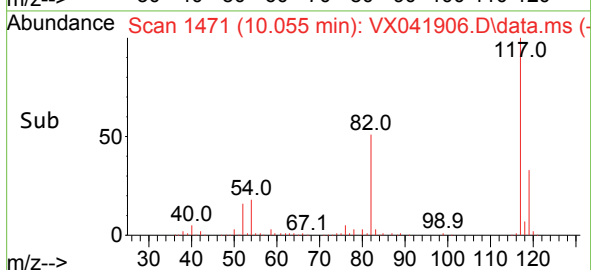
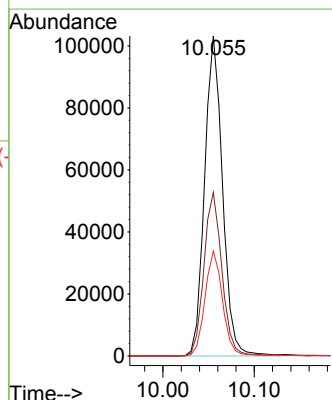
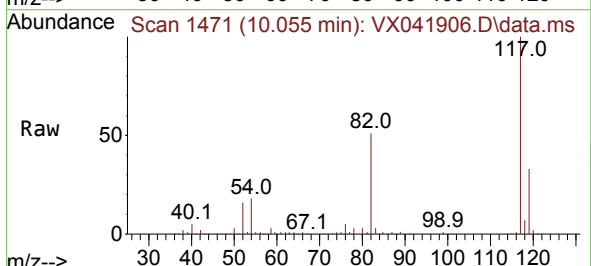
Tgt Ion:117 Resp: 140797

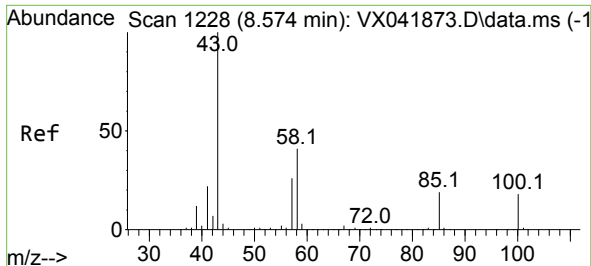
Ion Ratio Lower Upper

117 100

82 51.3 41.1 61.7

119 32.1 26.1 39.1

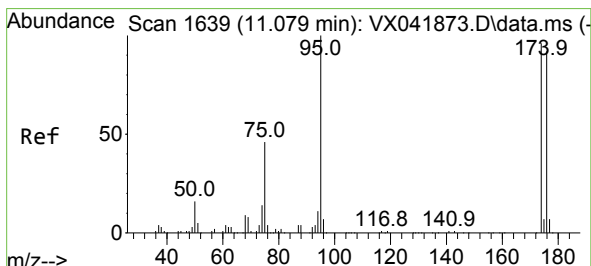
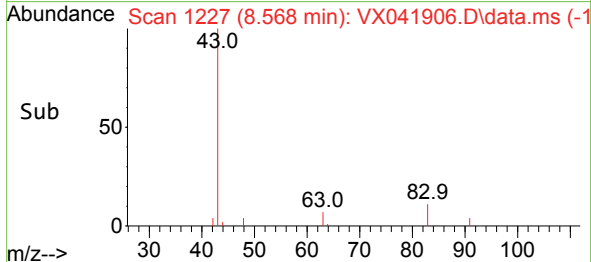
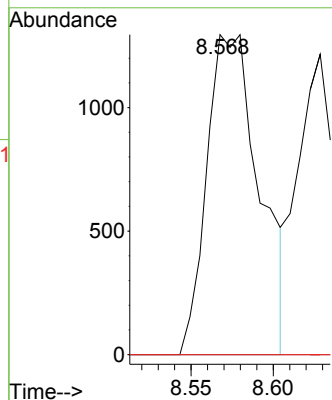
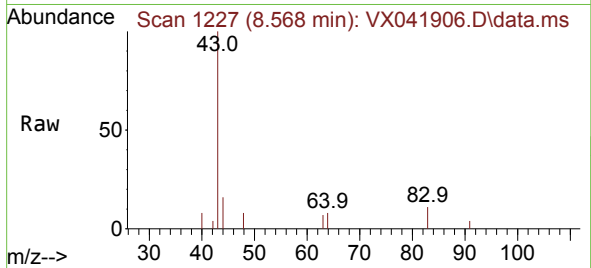




#58
 4-Methyl-2-Pentanone
 Concen: 1.143 ug/l
 RT: 8.568 min Scan# 1227
 Delta R.T. -0.006 min
 Lab File: VX041906.D
 Acq: 17 Jun 2024 13:47

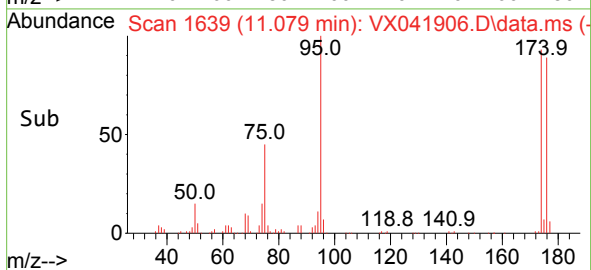
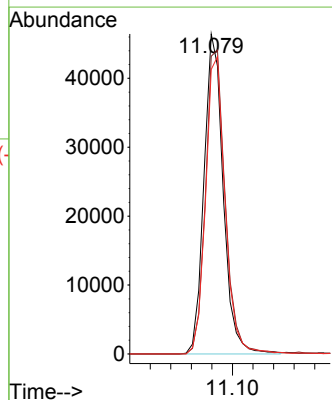
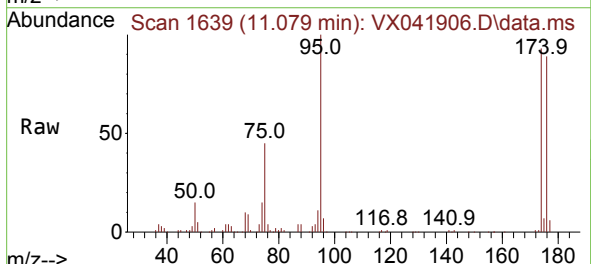
Instrument :
 MSVOA_X
 ClientSampleId :

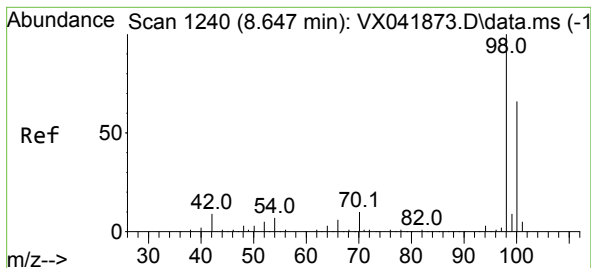
Tgt Ion: 43 Resp: 2885
 Ion Ratio Lower Upper
 43 100
 58 0.0 33.2 49.8#
 85 0.0 15.5 23.3#



#60
 4-Bromofluorobenzene
 Concen: 27.599 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: VX041906.D
 Acq: 17 Jun 2024 13:47

Tgt Ion: 95 Resp: 60149
 Ion Ratio Lower Upper
 95 100
 174 98.1 78.9 118.3
 176 94.6 77.1 115.7





#63

Toluene-d8

Concen: 1.180 ug/l

RT: 8.653 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

Instrument :

MSVOA_X

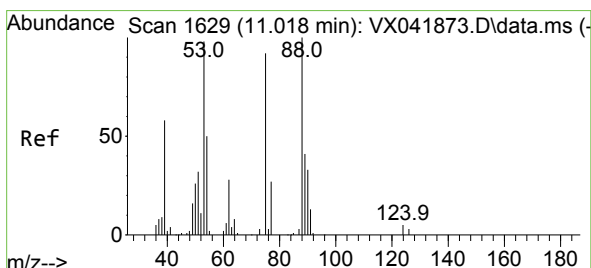
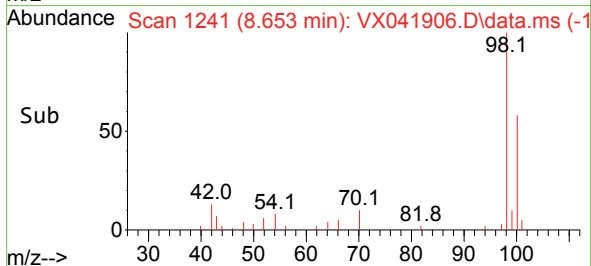
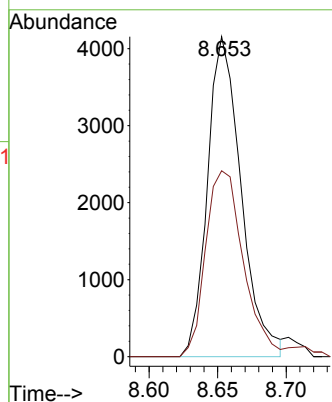
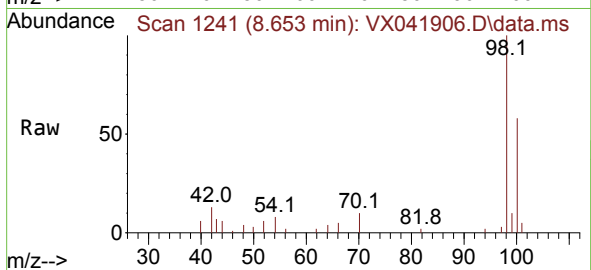
ClientSampleId :

Tgt Ion: 98 Resp: 7107

Ion Ratio Lower Upper

98 100

100 64.8 52.7 79.1



#77

t-1,4-Dichloro-2-butene

Concen: 32.941 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX041906.D

Acq: 17 Jun 2024 13:47

Tgt Ion: 75 Resp: 26829

Ion Ratio Lower Upper

75 100

53 0.0 53.4 160.2#

89 0.0 22.5 67.5#

