

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060724\
 Data File : VX041786.D
 Acq On : 07 Jun 2024 13:27
 Operator : JC/MD
 Sample : P2751-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 08 04:05:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

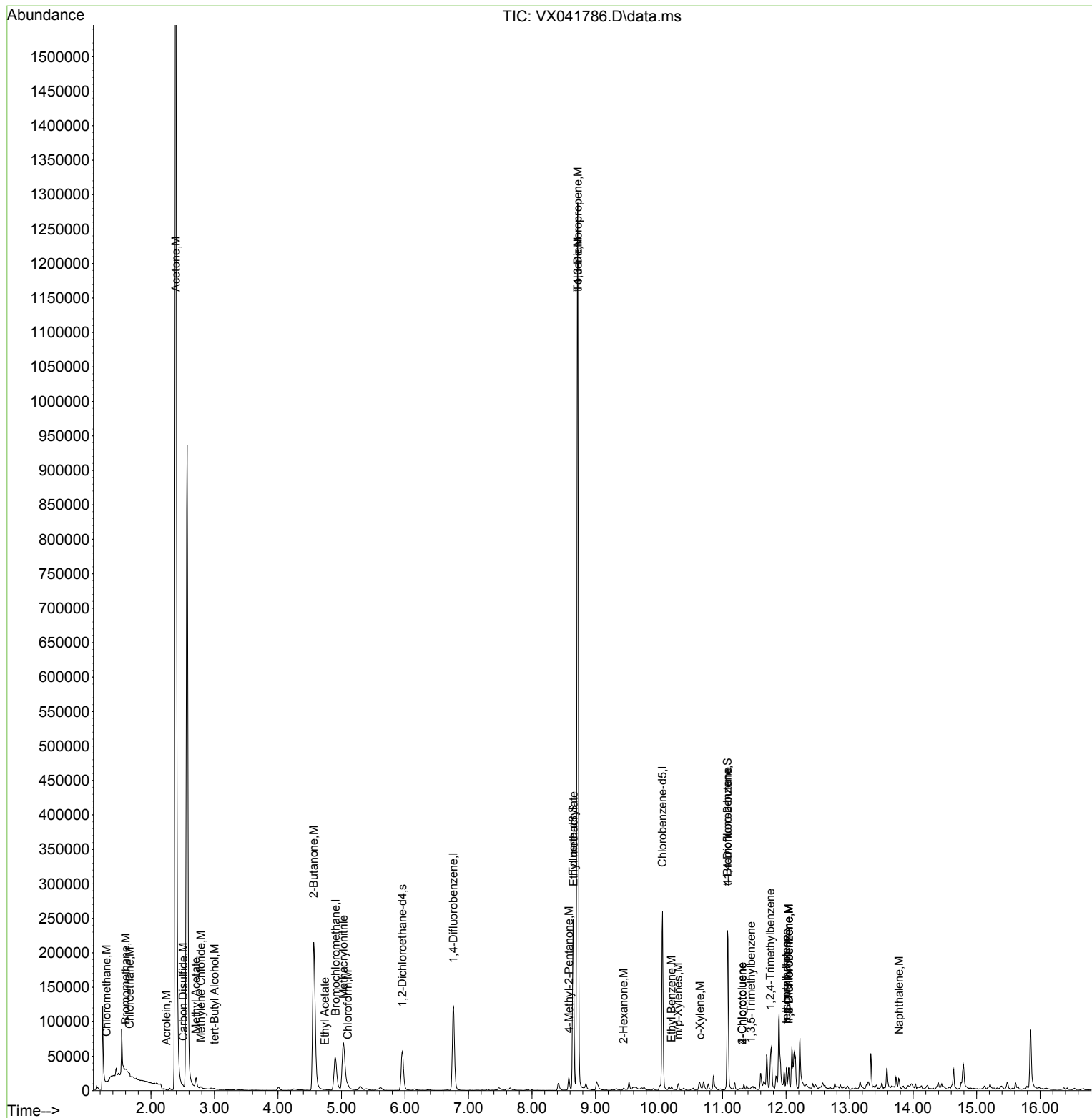
Internal Standards						
1) Bromochloromethane	4.910	128	23227	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	129356	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	120904	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	55892	30.557	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.867%
60) 4-Bromofluorobenzene	11.079	95	56530	29.951	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.833%
63) Toluene-d8	8.647	98	149421	28.831	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.100%
Target Compounds						
					Qvalue	
3) Chloromethane	1.300	50	800	0.601	ug/l	98
5) Bromomethane	1.599	94	247	0.277	ug/l	88
6) Chloroethane	1.666	64	2084	2.943	ug/l #	44
12) Methyl Acetate	2.709	43	18261	10.203	ug/l	90
13) Acrolein	2.239	56	379	1.739	ug/l	89
15) Acetone	2.392	58	638326	3027.670	ug/l	93
16) Carbon Disulfide	2.508	76	2883	1.075	ug/l	98
18) Methylene Chloride	2.788	84	1018	0.720	ug/l #	92
23) tert-Butyl Alcohol	3.001	59	1427	4.273	ug/l #	100
25) Chloroform	5.099	83	3763	1.420	ug/l #	82
30) 2-Butanone	4.562	43	391155	344.395	ug/l	99
35) Methacrylonitrile	5.032	41	17787	15.525	ug/l #	47
43) Ethyl Acetate	4.739	43	882	0.402	ug/l	96
48) t-1,3-Dichloropropene	8.720	75	5745	3.031	ug/l #	1
51) Ethyl methacrylate	8.653	69	564	0.251	ug/l	87
58) 4-Methyl-2-Pentanone	8.580	43	11518	5.214	ug/l	99
59) 2-Hexanone	9.439	43	1750	0.994	ug/l #	96
62) Toluene	8.720	91	837003	139.129	ug/l	99
66) Ethyl Benzene	10.195	91	2491	0.373	ug/l	90
67) m/p-Xylenes	10.299	106	2541	0.973	ug/l	93
68) o-Xylene	10.646	106	1312	0.499	ug/l	93
75) 2-Chlorotoluene	11.311	91	1124	0.239	ug/l	43
76) 1,3,5-Trimethylbenzene	11.451	105	1588	0.280	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	28755	44.443	ug/l #	2
78) 4-Chlorotoluene	11.311	91	1124	0.210	ug/l	48
79) tert-butylbenzene	12.006	119	11351	1.880	ug/l	70
80) 1,2,4-Trimethylbenzene	11.756	105	12445	2.189	ug/l	66
82) p-Isopropyltoluene	12.006	119	11351	1.838	ug/l	95
83) 1,3-Dichlorobenzene	12.042	146	1638	0.468	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	1638	0.463	ug/l	96
87) 1,2-Dichlorobenzene	12.042	146	1638	0.458	ug/l	98
91) Naphthalene	13.780	128	8336	1.161	ug/l	98

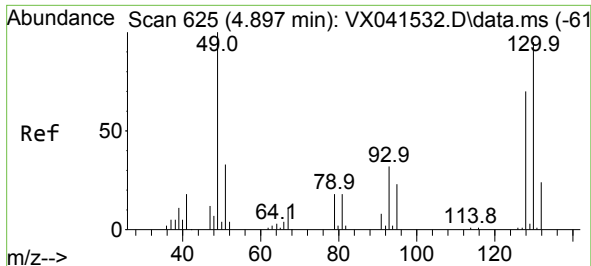
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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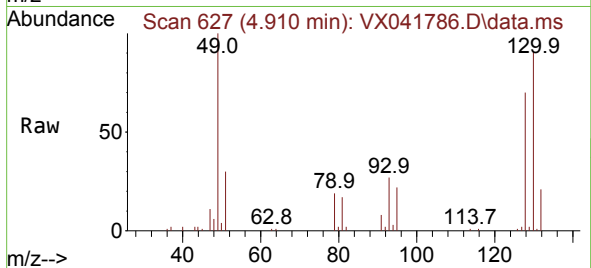
Quant Time: Jun 08 04:05:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
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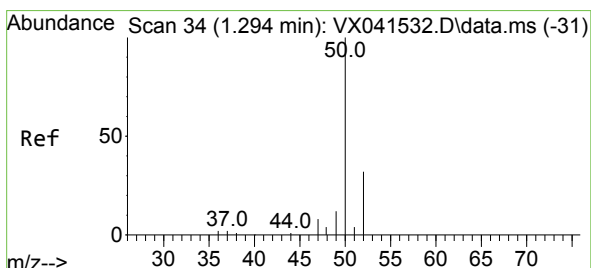
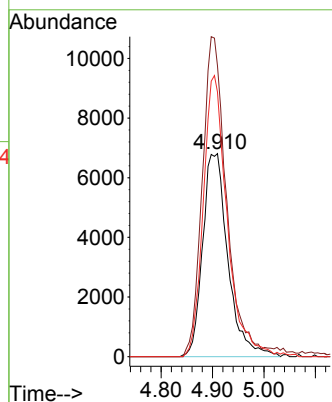
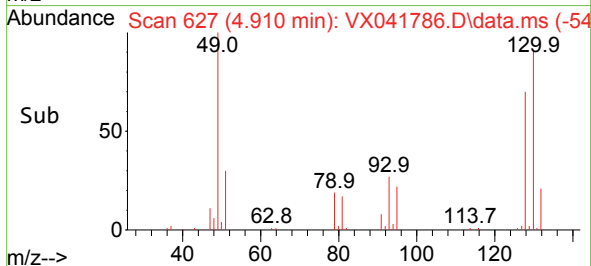


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.013 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Instrument :
MSVOA_X
ClientSampleId :

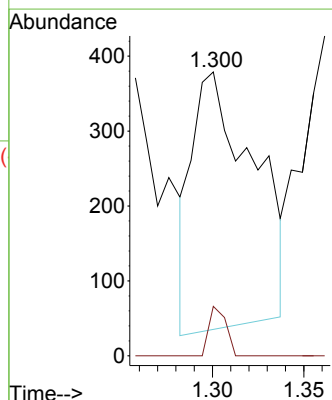
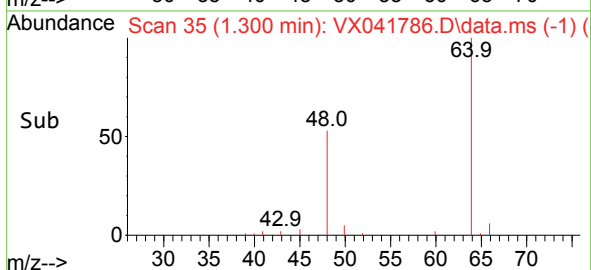
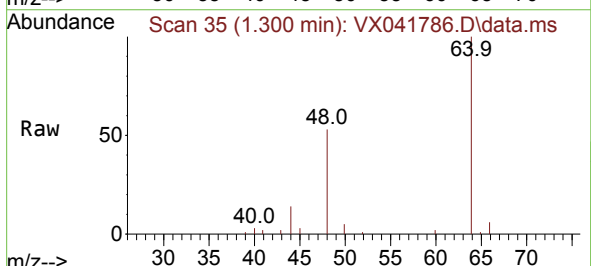


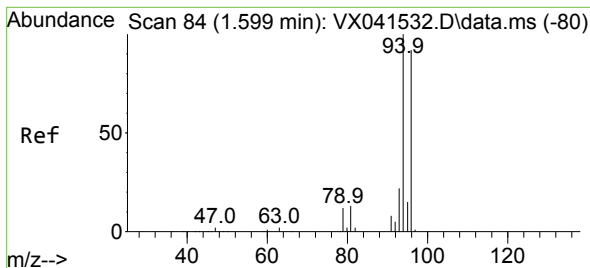
Tgt Ion:128 Resp: 23227
Ion Ratio Lower Upper
128 100
49 150.2 0.0 361.5
130 131.2 0.0 324.3



#3
Chloromethane
Concen: 0.601 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 50 Resp: 800
Ion Ratio Lower Upper
50 100
52 33.7 25.8 38.8





#5

Bromomethane

Concen: 0.277 ug/l

RT: 1.599 min Scan# 84

Delta R.T. 0.000 min

Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Instrument :

MSVOA_X

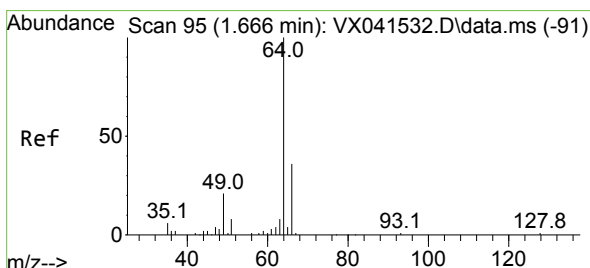
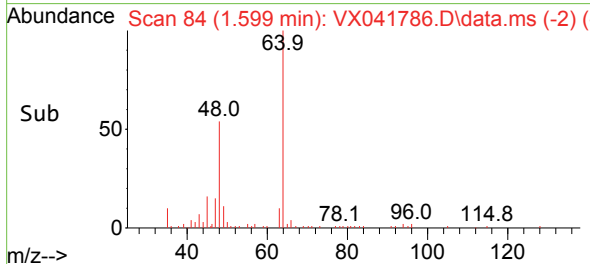
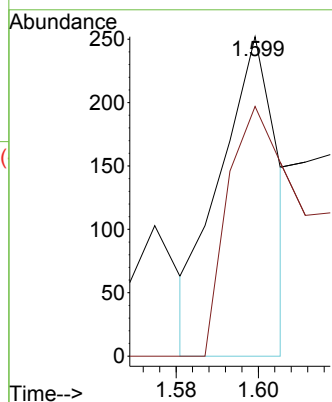
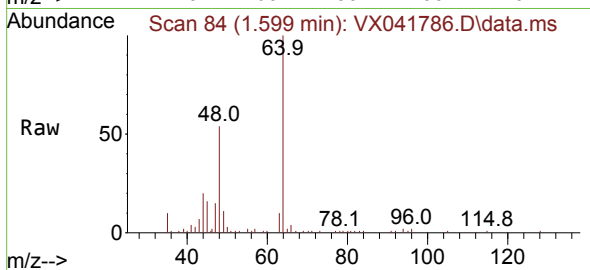
ClientSampleId :

Tgt Ion: 94 Resp: 247

Ion Ratio Lower Upper

94 100

96 104.2 73.9 110.9



#6

Chloroethane

Concen: 2.943 ug/l

RT: 1.666 min Scan# 95

Delta R.T. 0.000 min

Lab File: VX041786.D

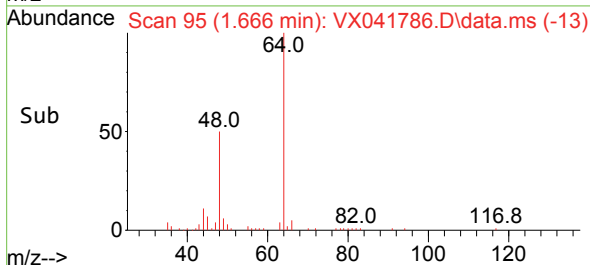
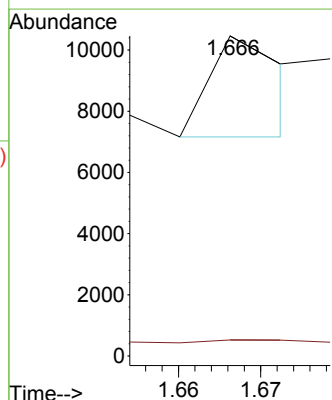
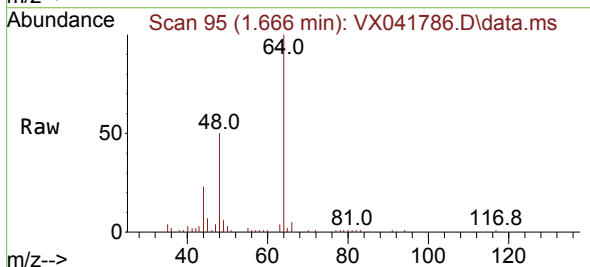
Acq: 07 Jun 2024 13:27

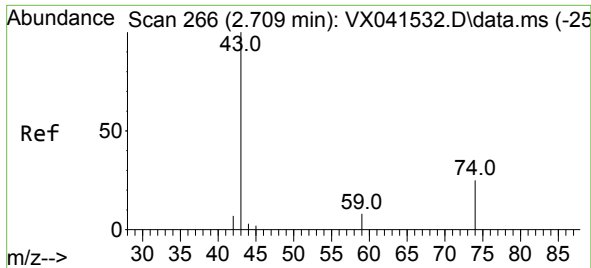
Tgt Ion: 64 Resp: 2084

Ion Ratio Lower Upper

64 100

66 2.8 28.6 42.8#

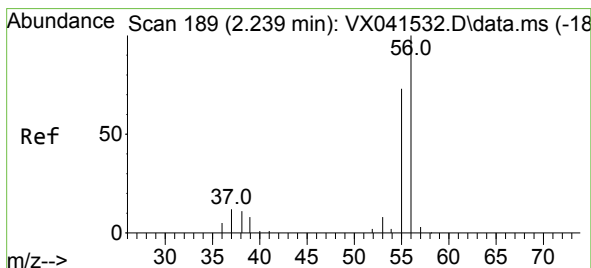
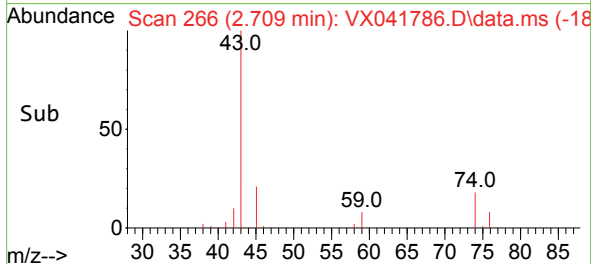
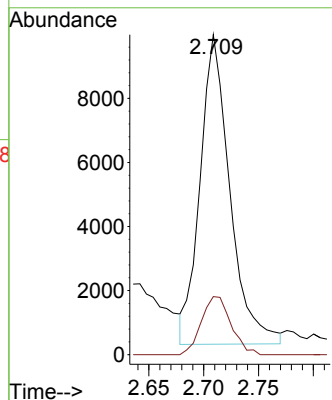
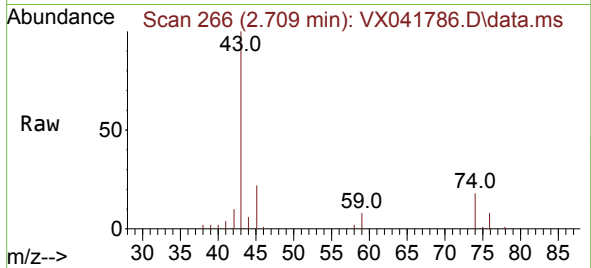




#12
Methyl Acetate
Concen: 10.203 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

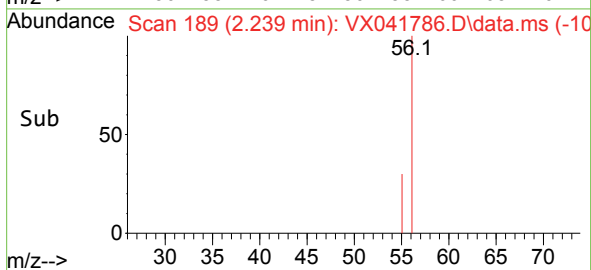
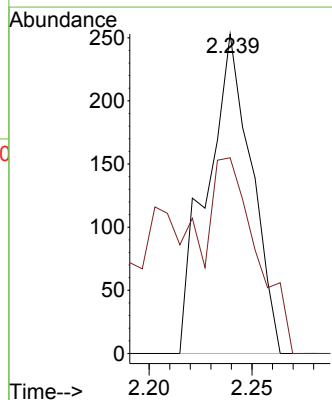
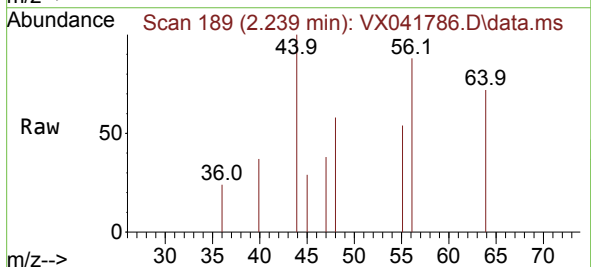
Instrument :
MSVOA_X
ClientSampleId :

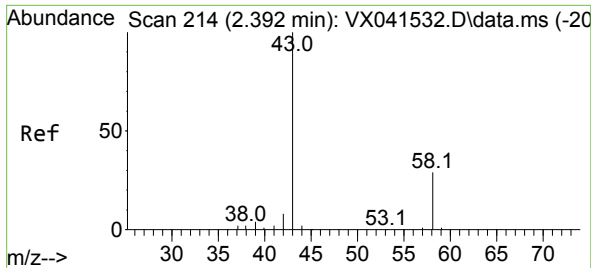
Tgt Ion: 43 Resp: 18261
Ion Ratio Lower Upper
43 100
74 20.1 19.9 29.9



#13
Acrolein
Concen: 1.739 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 56 Resp: 379
Ion Ratio Lower Upper
56 100
55 59.9 55.1 82.7





#15

Acetone

Concen: 3027.670 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Instrument :

MSVOA_X

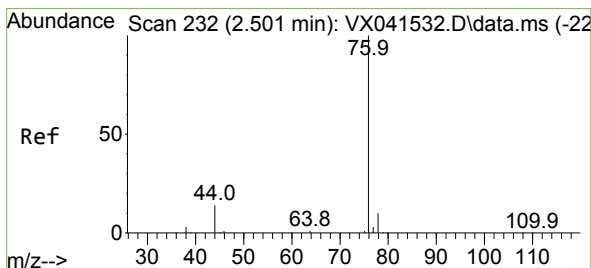
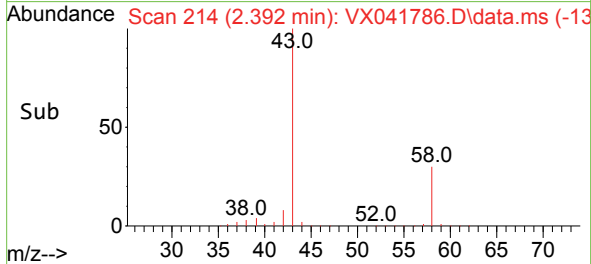
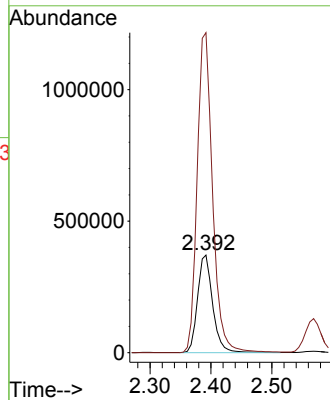
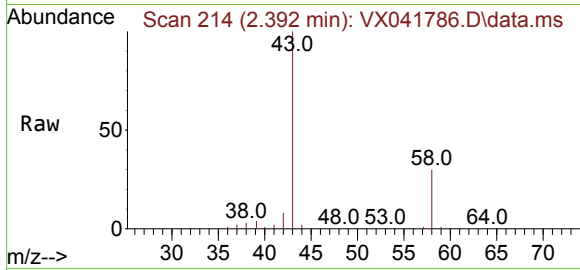
ClientSampleId :

Tgt Ion: 58 Resp: 638326

Ion Ratio Lower Upper

58 100

43 328.3 274.0 411.0



#16

Carbon Disulfide

Concen: 1.075 ug/l

RT: 2.508 min Scan# 233

Delta R.T. 0.006 min

Lab File: VX041786.D

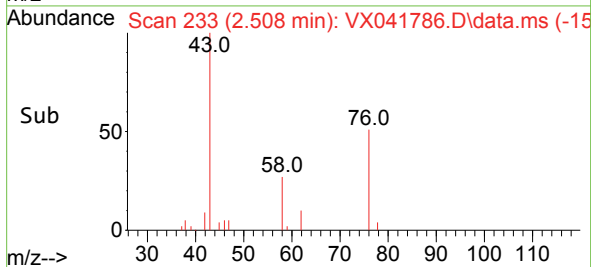
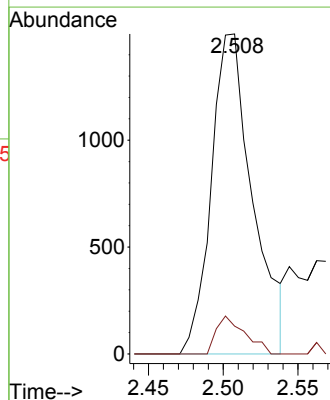
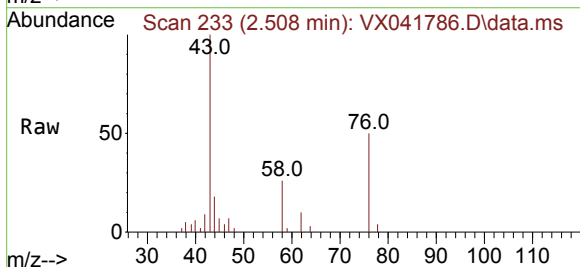
Acq: 07 Jun 2024 13:27

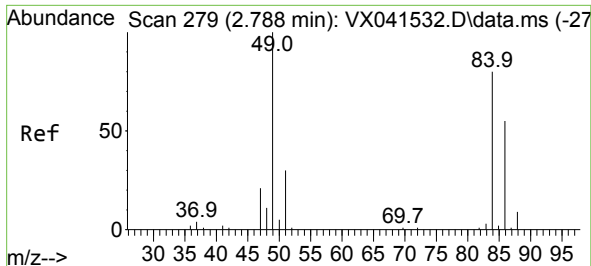
Tgt Ion: 76 Resp: 2883

Ion Ratio Lower Upper

76 100

78 8.7 7.6 11.4





#18

Methylene Chloride

Concen: 0.720 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

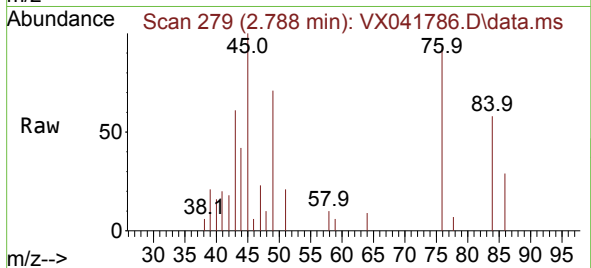
Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 1018

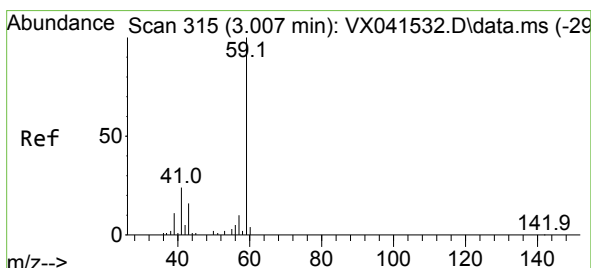
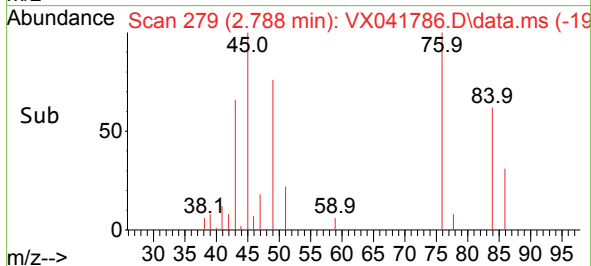
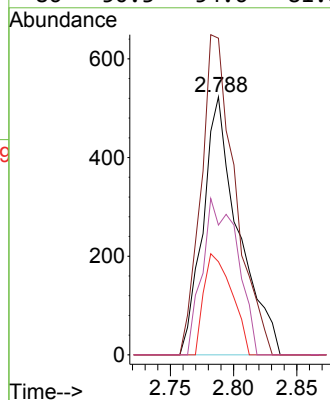
Ion Ratio Lower Upper

84 100

49 122.8 99.8 149.8

51 36.1 30.2 45.4

86 50.3 54.6 81.8#



#23

tert-Butyl Alcohol

Concen: 4.273 ug/l

RT: 3.001 min Scan# 314

Delta R.T. -0.006 min

Lab File: VX041786.D

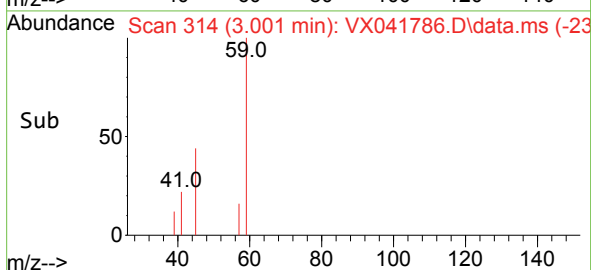
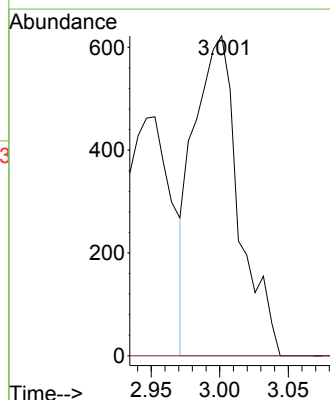
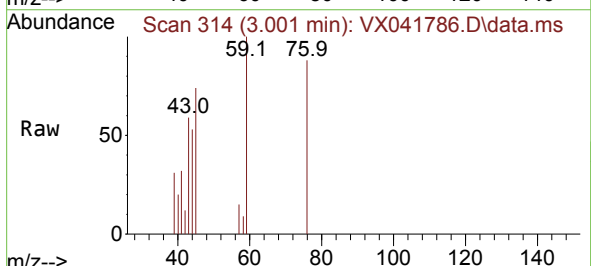
Acq: 07 Jun 2024 13:27

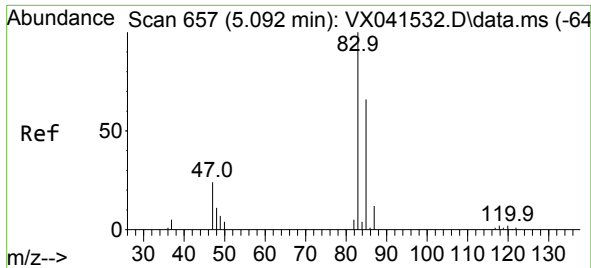
Tgt Ion: 59 Resp: 1427

Ion Ratio Lower Upper

59 100

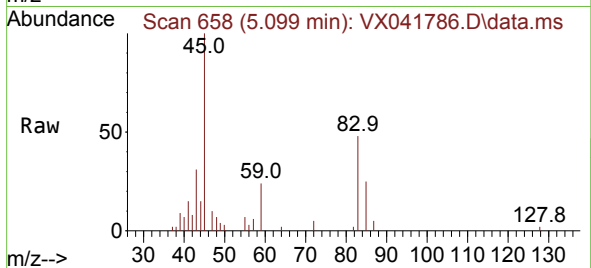
52 0.0 0.0 0.0



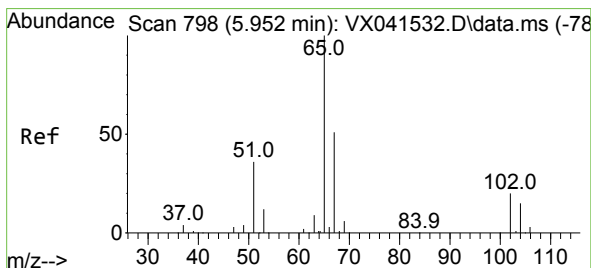
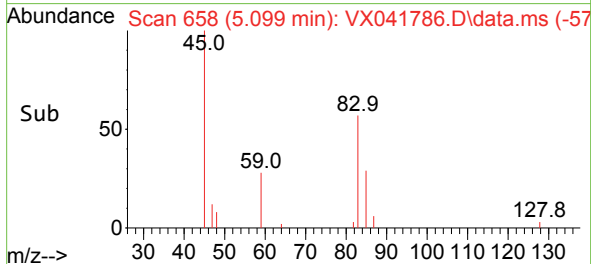
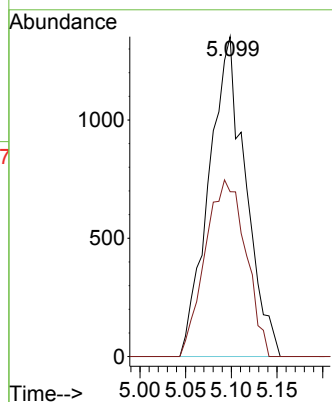


#25
Chloroform
Concen: 1.420 ug/l
RT: 5.099 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Instrument :
MSVOA_X
ClientSampleId :

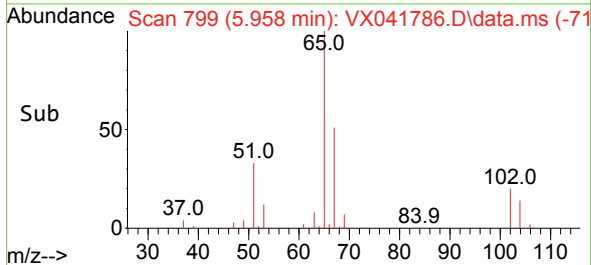
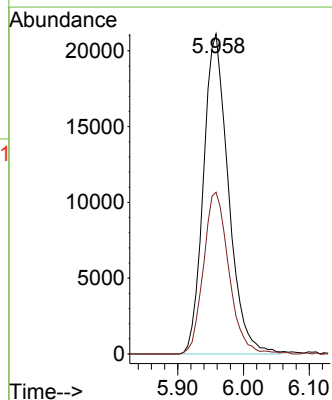
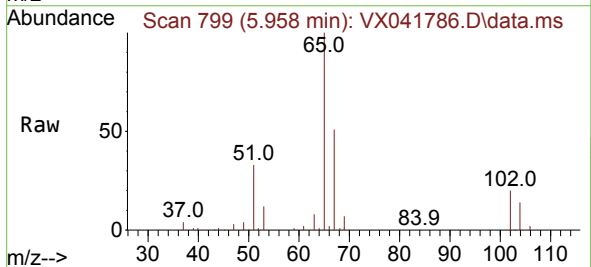


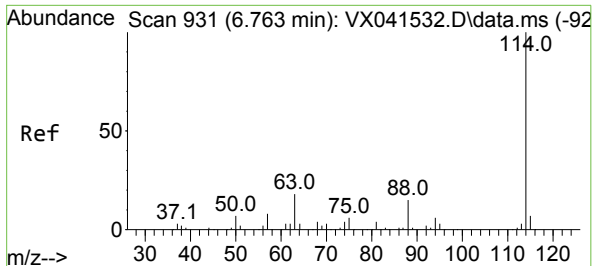
Tgt Ion: 83 Resp: 3763
Ion Ratio Lower Upper
83 100
85 51.6 52.9 79.3#



#27
1,2-Dichloroethane-d4
Concen: 30.557 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 65 Resp: 55892
Ion Ratio Lower Upper
65 100
67 50.9 40.8 61.2

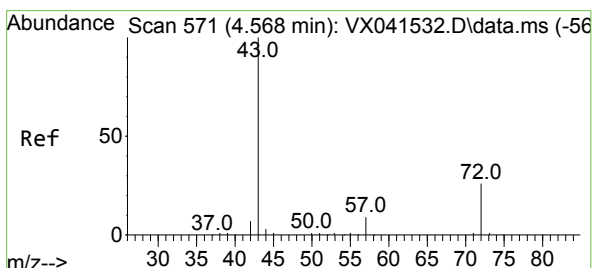
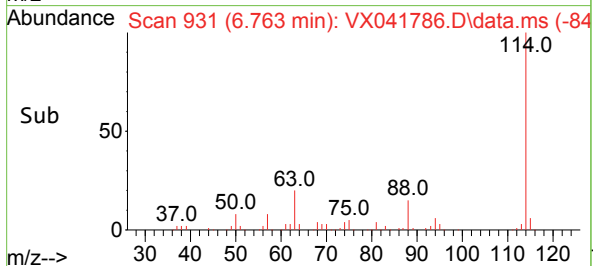
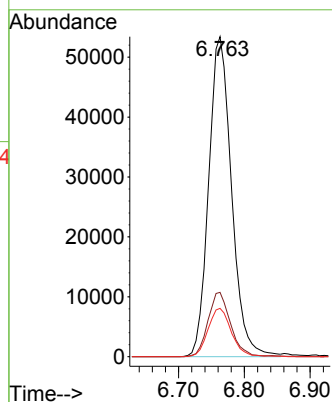
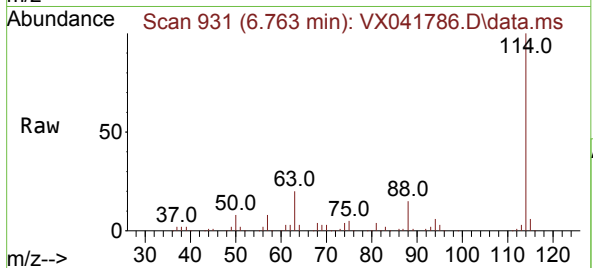




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

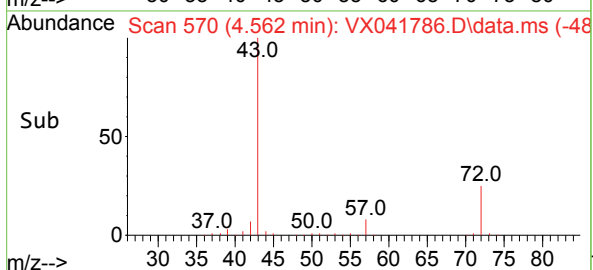
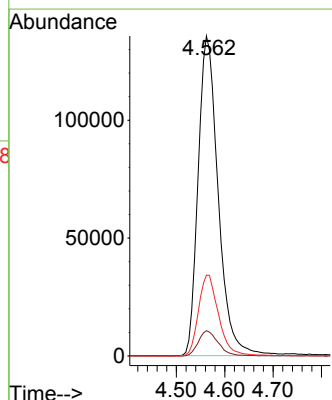
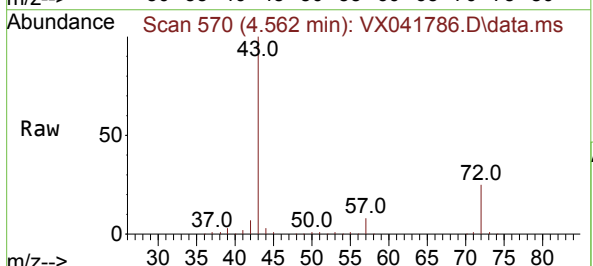
Instrument :
MSVOA_X
ClientSampleId :

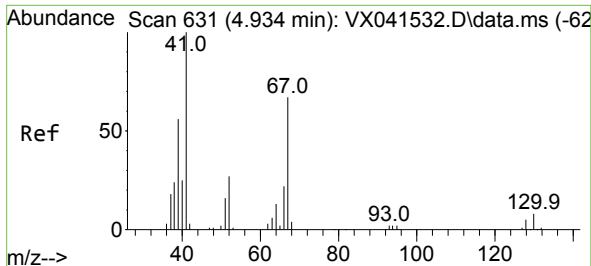
Tgt Ion:114 Resp: 129356
Ion Ratio Lower Upper
114 100
63 19.6 15.4 23.0
88 15.3 12.2 18.2



#30
2-Butanone
Concen: 344.395 ug/l
RT: 4.562 min Scan# 570
Delta R.T. -0.006 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 43 Resp: 391155
Ion Ratio Lower Upper
43 100
57 7.8 6.6 10.0
72 25.3 20.7 31.1

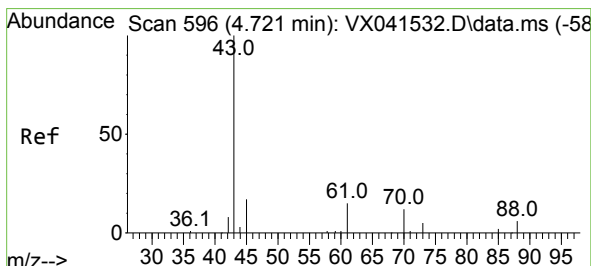
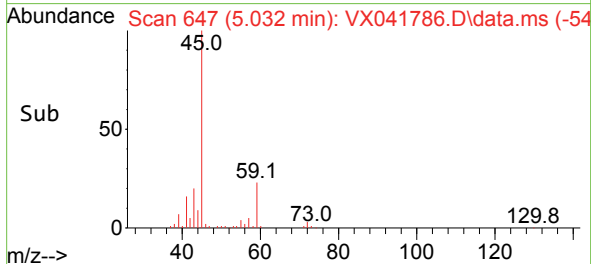
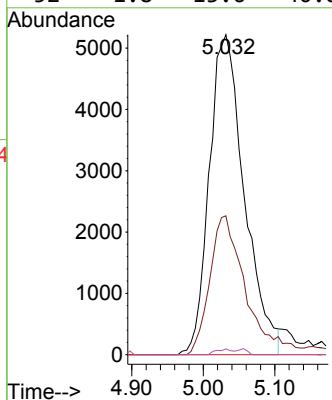
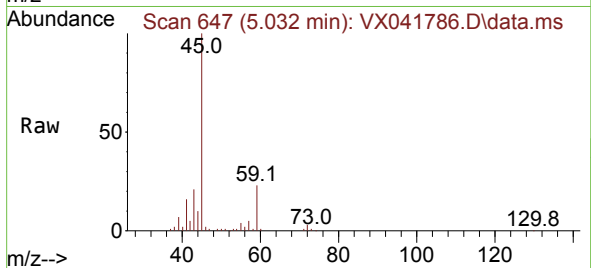




#35
Methacrylonitrile
Concen: 15.525 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.098 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

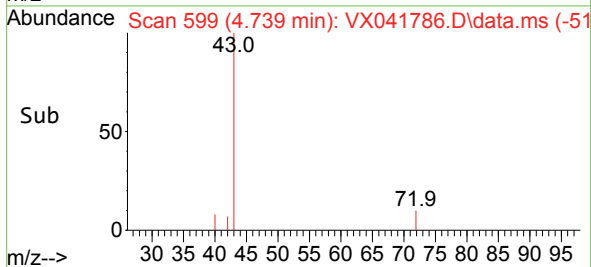
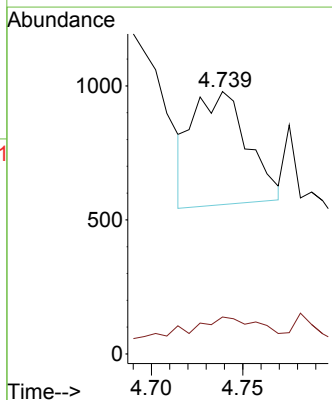
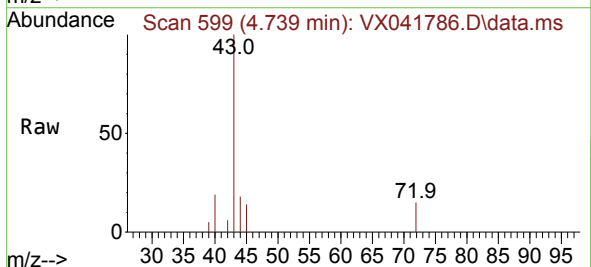
Instrument :
MSVOA_X
ClientSampleId :

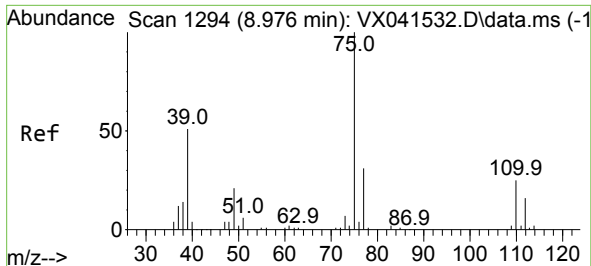
Tgt Ion: 41	Resp: 17787
Ion Ratio	Lower Upper
41 100	
39 43.4	28.1 84.4
67 0.0	33.7 101.1#
52 1.8	13.6 40.8#



#43
Ethyl Acetate
Concen: 0.402 ug/l
RT: 4.739 min Scan# 599
Delta R.T. 0.018 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 43	Resp: 882
Ion Ratio	Lower Upper
43 100	
45 13.2	11.9 17.9

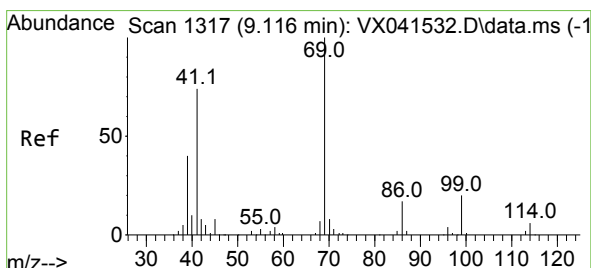
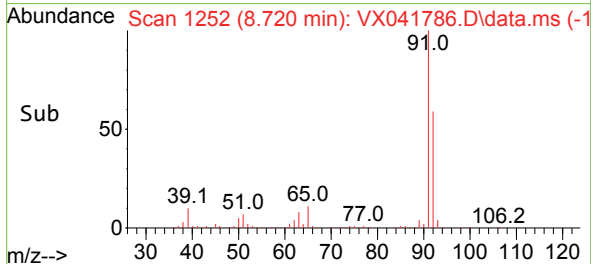
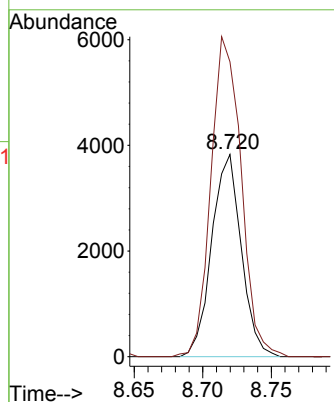
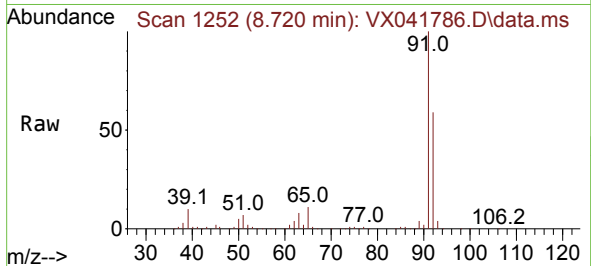




#48
 t-1,3-Dichloropropene
 Concen: 3.031 ug/l
 RT: 8.720 min Scan# 11
 Delta R.T. -0.256 min
 Lab File: VX041786.D
 Acq: 07 Jun 2024 13:27

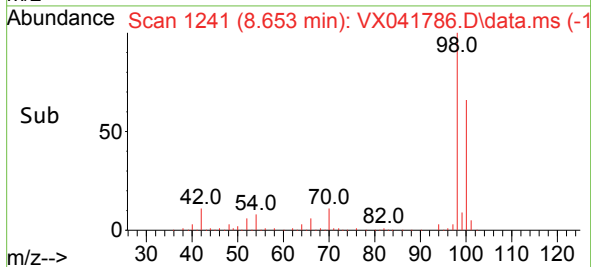
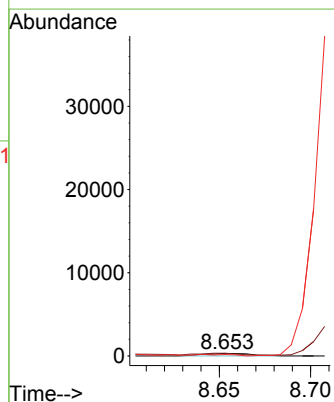
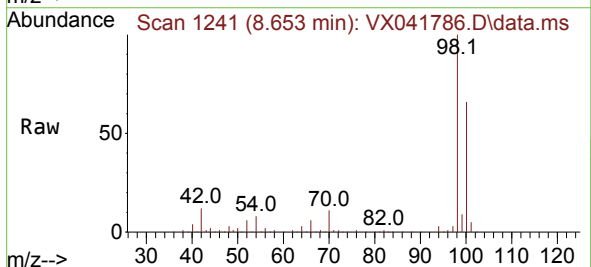
Instrument :
 MSVOA_X
 ClientSampleId :

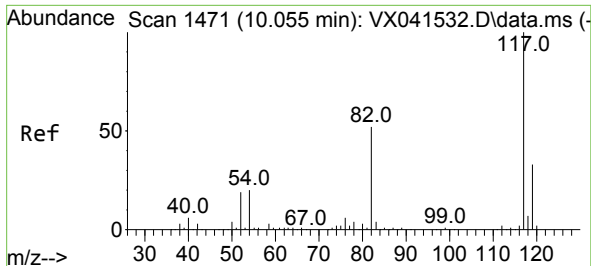
Tgt Ion: 75 Resp: 5745
 Ion Ratio Lower Upper
 75 100
 77 144.4 24.5 36.7#



#51
 Ethyl methacrylate
 Concen: 0.251 ug/l
 RT: 8.653 min Scan# 1241
 Delta R.T. -0.463 min
 Lab File: VX041786.D
 Acq: 07 Jun 2024 13:27

Tgt Ion: 69 Resp: 564
 Ion Ratio Lower Upper
 69 100
 41 76.5 37.1 111.3
 39 20.8 20.2 60.6





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

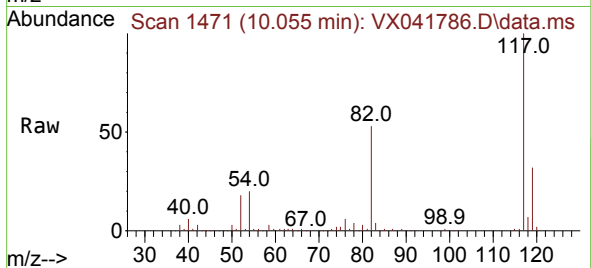
Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Instrument :

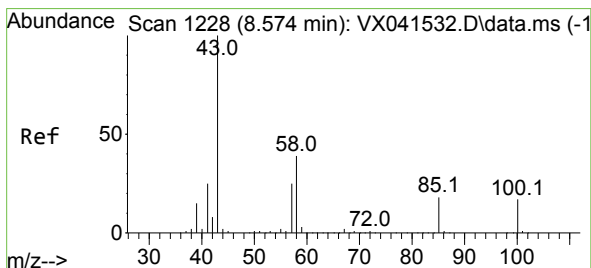
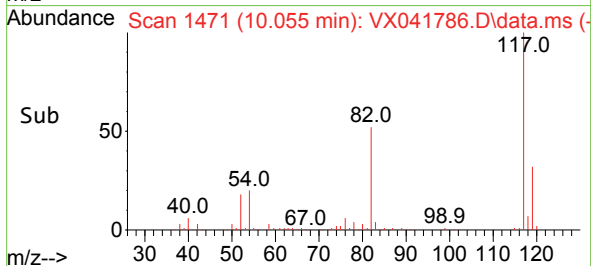
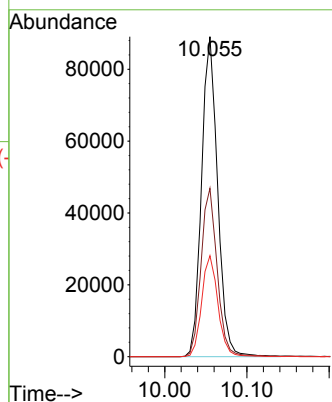
MSVOA_X

ClientSampleId :



Tgt Ion:117 Resp: 120904

Ion	Ratio	Lower	Upper
117	100		
82	53.1	41.7	62.5
119	32.0	25.7	38.5



#58

4-Methyl-2-Pentanone

Concen: 5.214 ug/l

RT: 8.580 min Scan# 1229

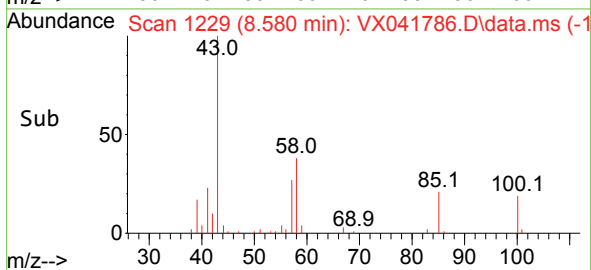
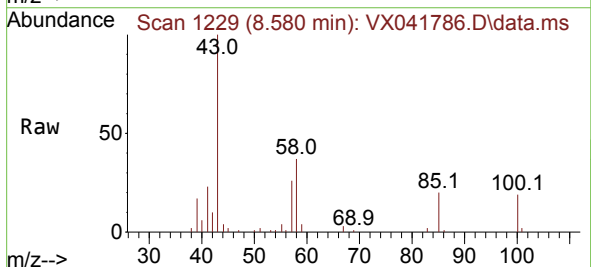
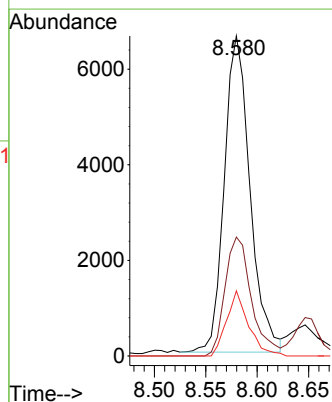
Delta R.T. 0.006 min

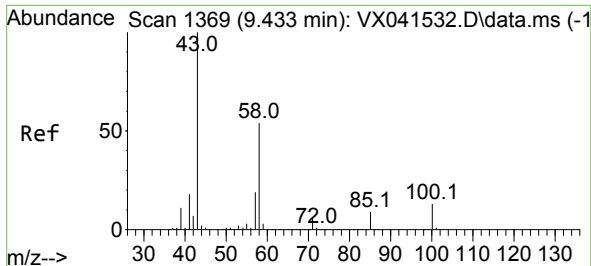
Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Tgt Ion: 43 Resp: 11518

Ion	Ratio	Lower	Upper
43	100		
58	38.7	30.2	45.4
85	17.6	14.6	21.8





#59

2-Hexanone

Concen: 0.994 ug/l

RT: 9.439 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Instrument :

MSVOA_X

ClientSampleId :

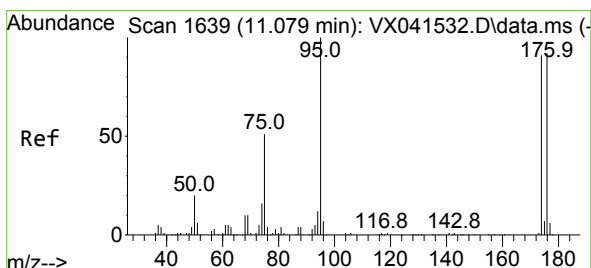
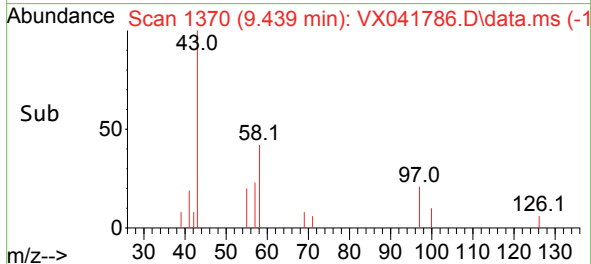
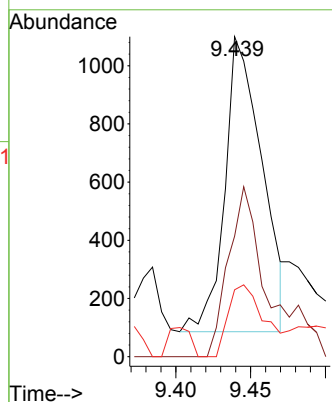
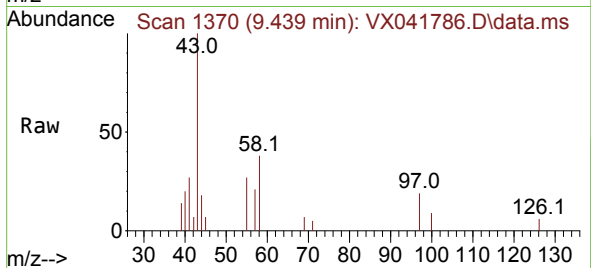
Tgt Ion: 43 Resp: 1750

Ion Ratio Lower Upper

43 100

58 54.2 42.3 63.5

57 23.5 15.1 22.7#



#60

4-Bromofluorobenzene

Concen: 29.951 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

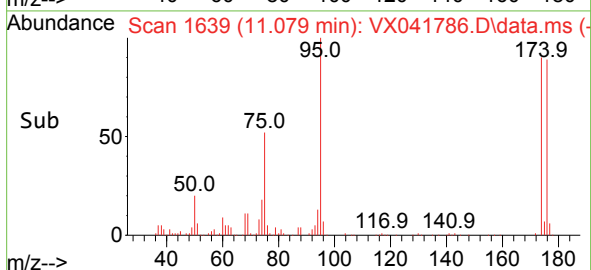
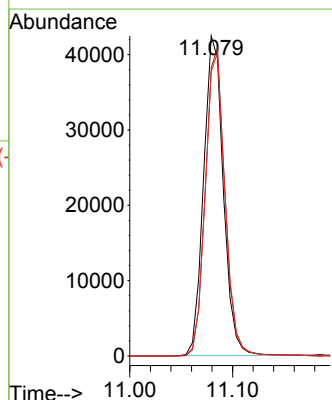
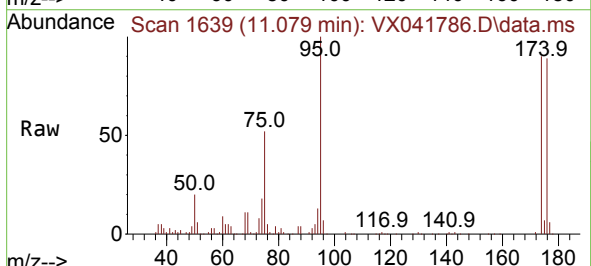
Tgt Ion: 95 Resp: 56530

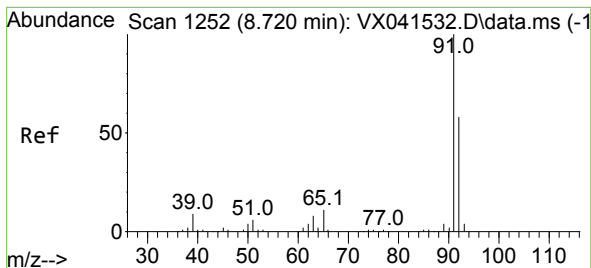
Ion Ratio Lower Upper

95 100

174 95.8 76.6 115.0

176 94.8 75.4 113.0





#62

Toluene

Concen: 139.129 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Instrument :

MSVOA_X

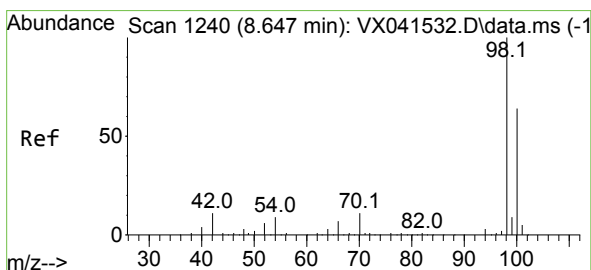
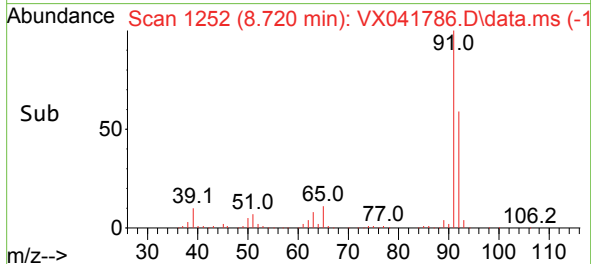
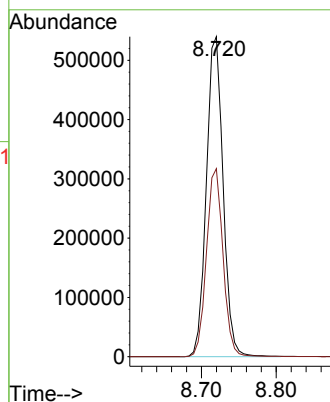
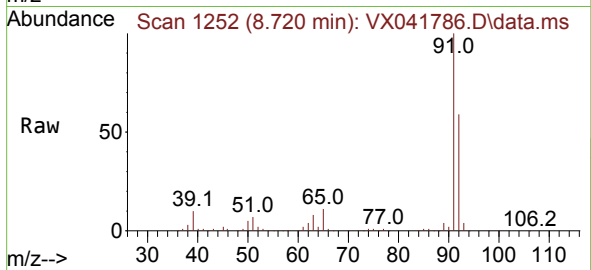
ClientSampleId :

Tgt Ion: 91 Resp: 837003

Ion Ratio Lower Upper

91 100

92 58.3 47.0 70.6



#63

Toluene-d8

Concen: 28.831 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX041786.D

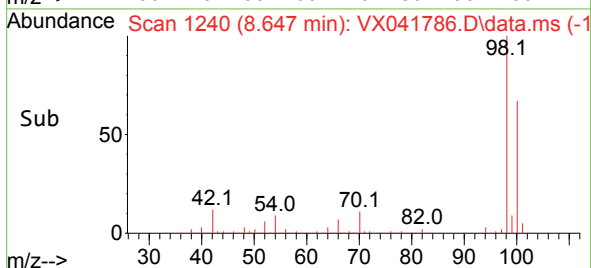
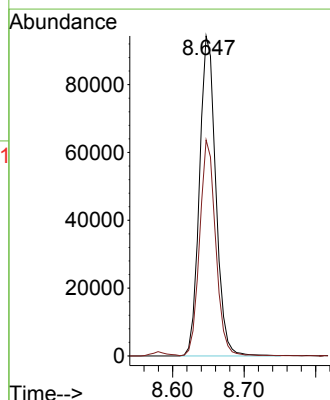
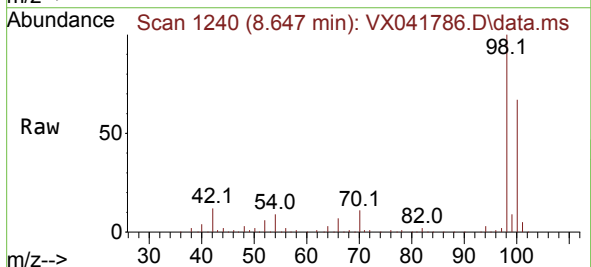
Acq: 07 Jun 2024 13:27

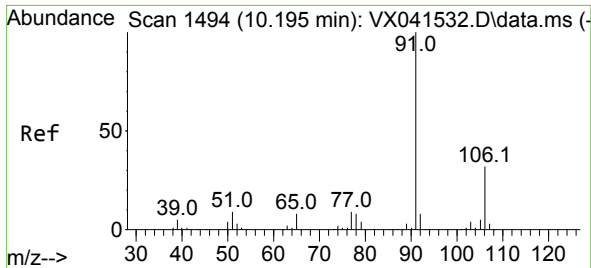
Tgt Ion: 98 Resp: 149421

Ion Ratio Lower Upper

98 100

100 66.2 53.1 79.7

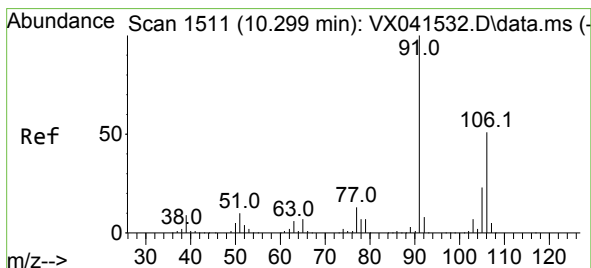
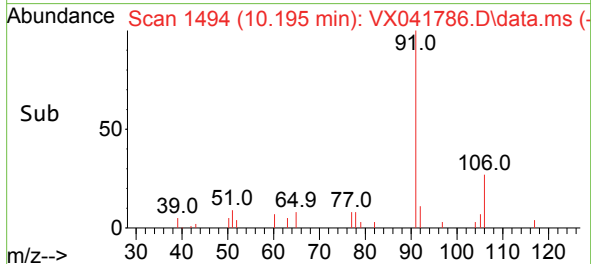
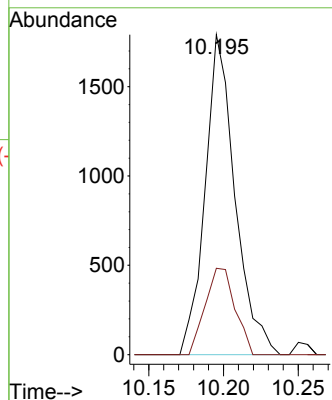
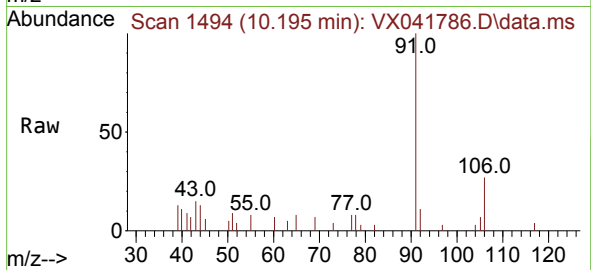




#66
Ethyl Benzene
Concen: 0.373 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

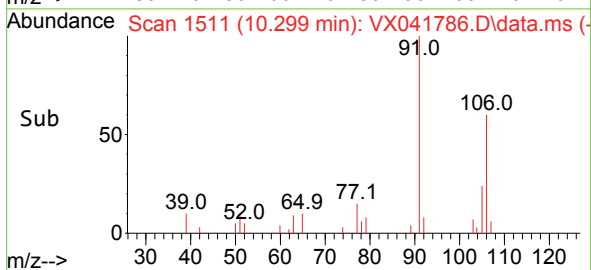
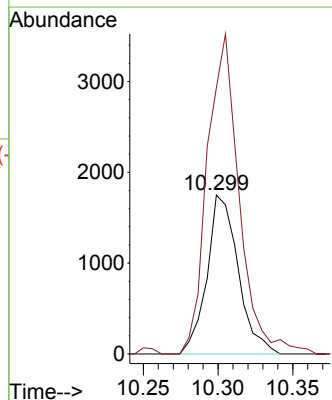
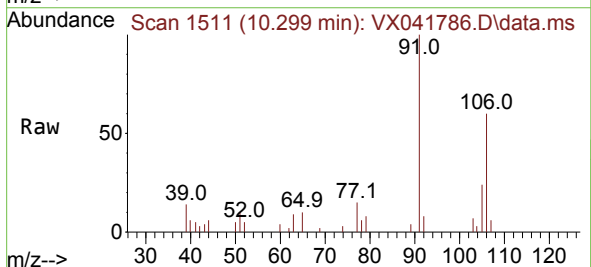
Instrument :
MSVOA_X
ClientSampleId :

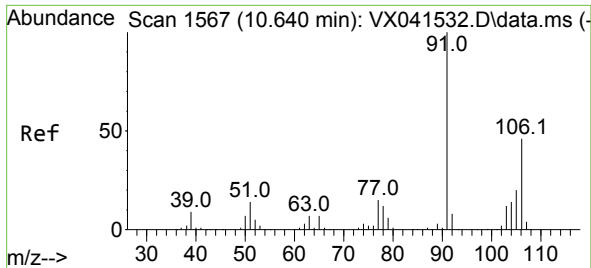
Tgt Ion: 91 Resp: 2491
Ion Ratio Lower Upper
91 100
106 27.0 25.9 38.9



#67
m/p-Xylenes
Concen: 0.973 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 106 Resp: 2541
Ion Ratio Lower Upper
106 100
91 206.3 156.5 234.7

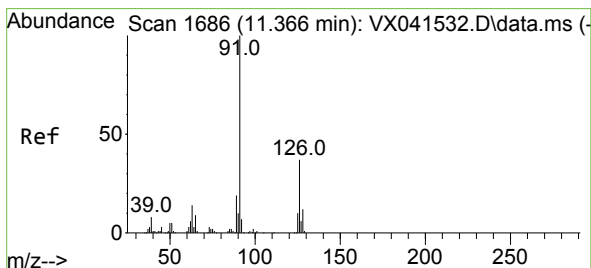
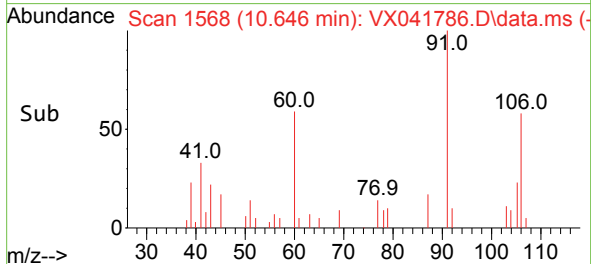
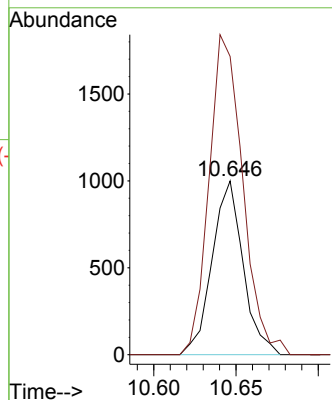
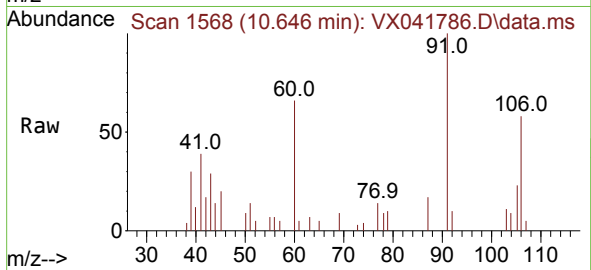




#68
o-Xylene
Concen: 0.499 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

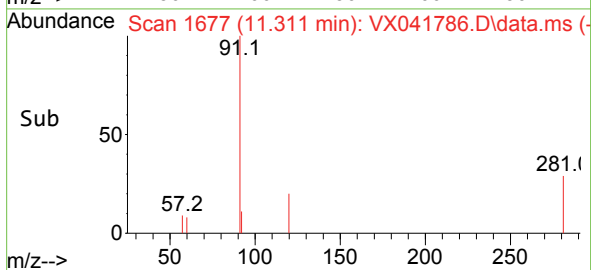
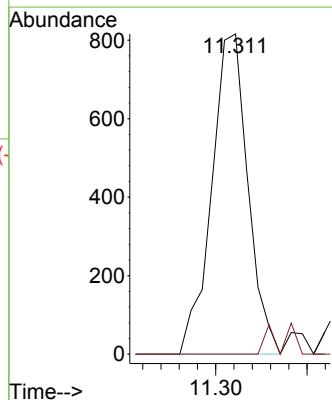
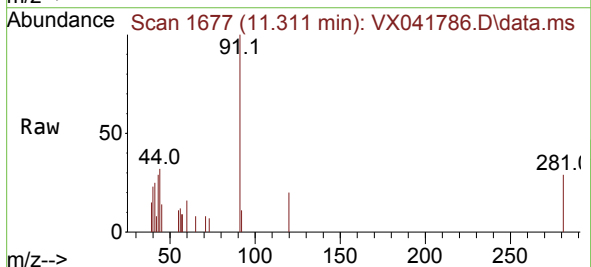
Instrument :
MSVOA_X
ClientSampleId :

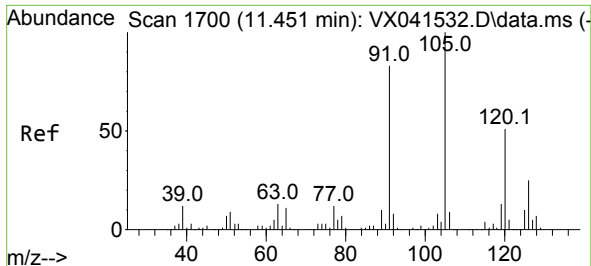
Tgt Ion:106 Resp: 1312
Ion Ratio Lower Upper
106 100
91 199.9 105.2 315.6



#75
2-Chlorotoluene
Concen: 0.239 ug/l
RT: 11.311 min Scan# 1677
Delta R.T. -0.055 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 91 Resp: 1124
Ion Ratio Lower Upper
91 100
126 2.4 0.0 71.6

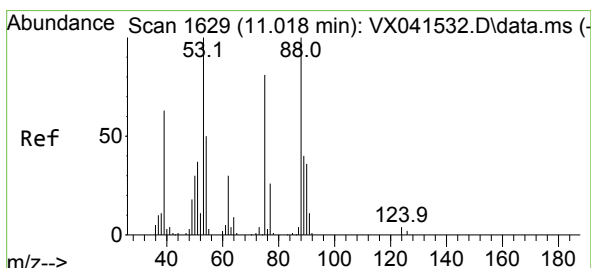
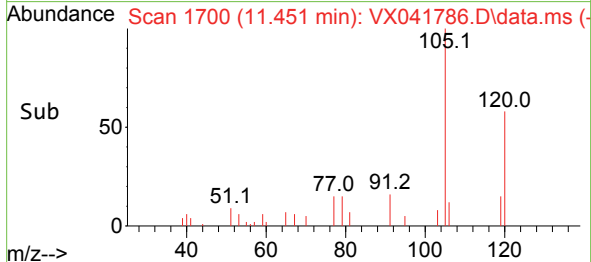
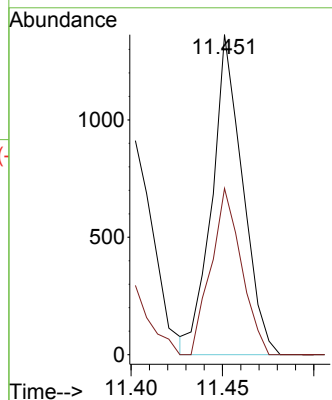
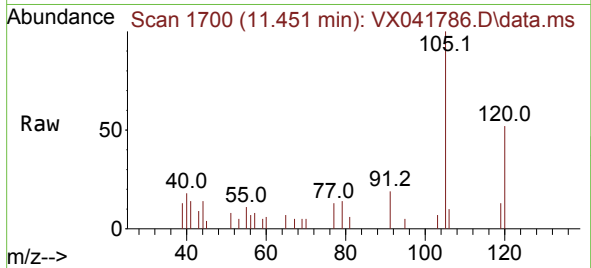




#76
1,3,5-Trimethylbenzene
Concen: 0.280 ug/l
RT: 11.451 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

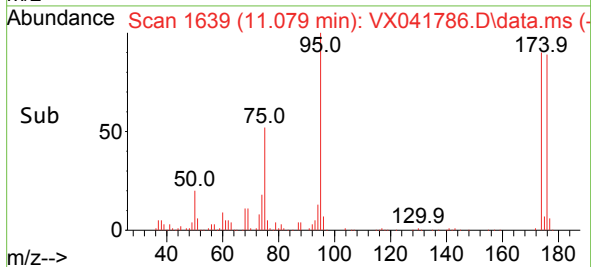
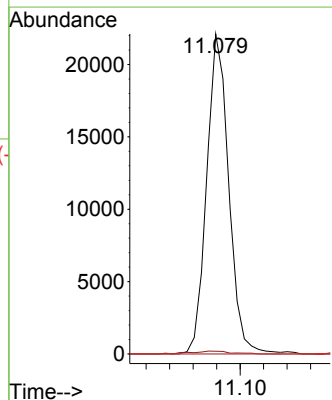
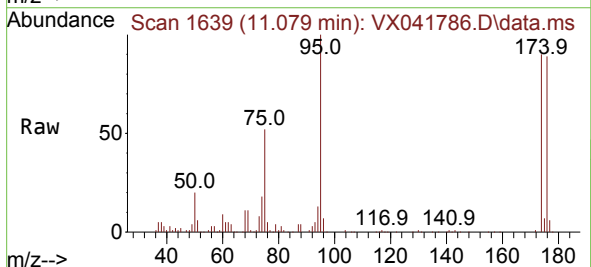
Instrument :
MSVOA_X
ClientSampleId :

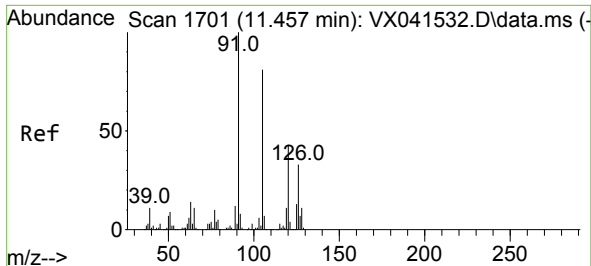
Tgt Ion:105 Resp: 1588
Ion Ratio Lower Upper
105 100
120 51.6 0.0 102.6



#77
t-1,4-Dichloro-2-butene
Concen: 44.443 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 75 Resp: 28755
Ion Ratio Lower Upper
75 100
53 0.9 61.8 185.3#
89 0.0 24.9 74.7#

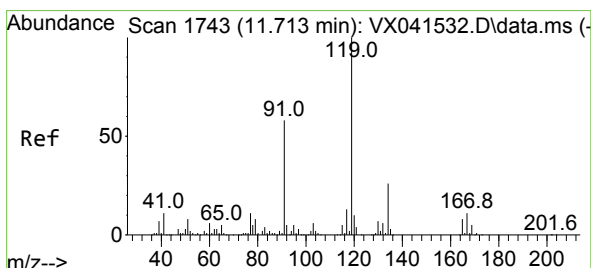
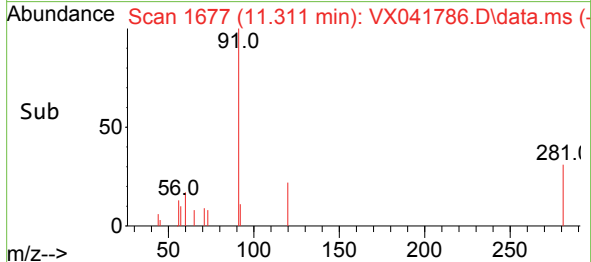
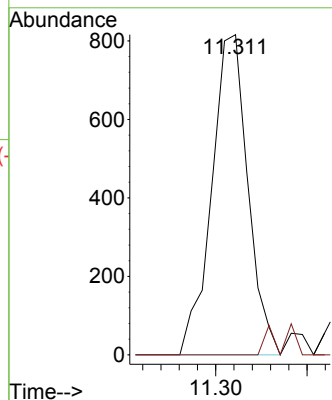
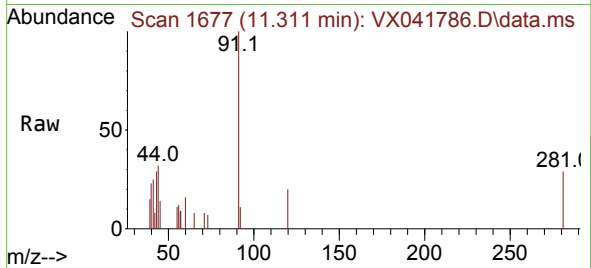




#78
4-Chlorotoluene
Concen: 0.210 ug/l
RT: 11.311 min Scan# 1124
Delta R.T. -0.146 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

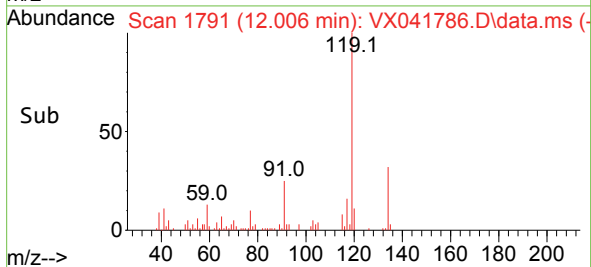
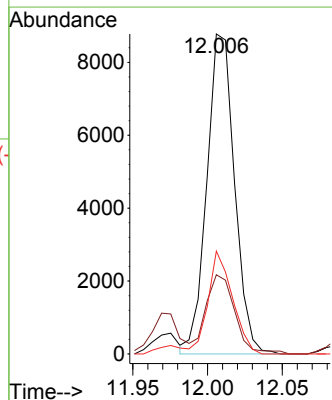
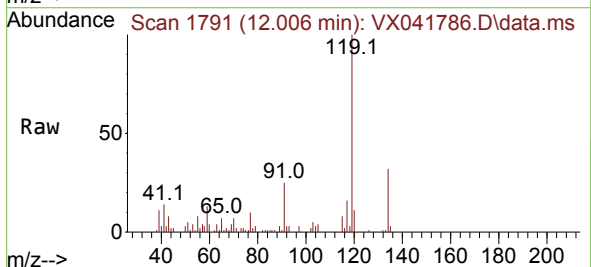
Instrument :
MSVOA_X
ClientSampleId :

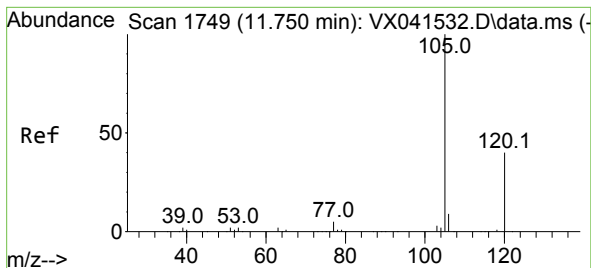
Tgt Ion: 91 Resp: 1124
Ion Ratio Lower Upper
91 100
126 2.4 0.0 62.2



#79
tert-butylbenzene
Concen: 1.880 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion: 119 Resp: 11351
Ion Ratio Lower Upper
119 100
91 25.6 0.0 110.0
134 28.2 0.0 50.0





#80

1,2,4-Trimethylbenzene

Concen: 2.189 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

Instrument :

MSVOA_X

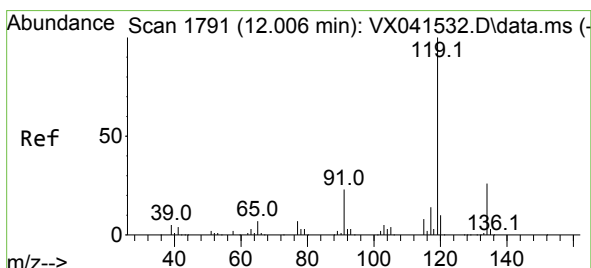
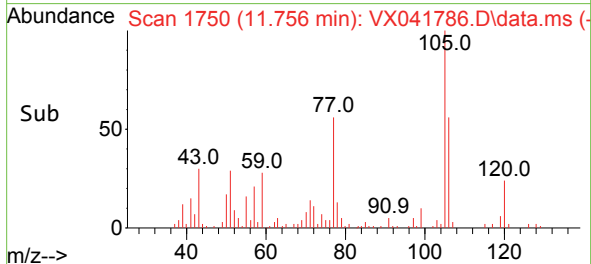
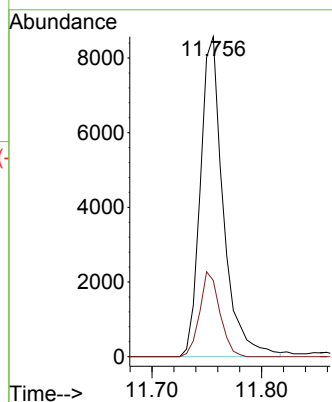
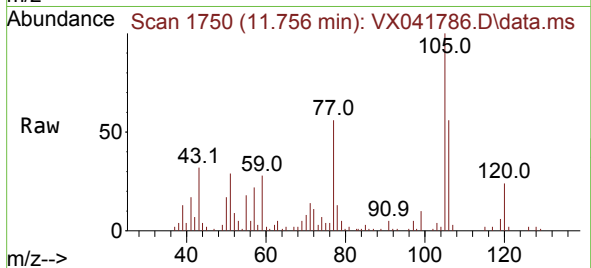
ClientSampleId :

Tgt Ion:105 Resp: 12445

Ion Ratio Lower Upper

105 100

120 23.3 0.0 92.2



#82

p-Isopropyltoluene

Concen: 1.838 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX041786.D

Acq: 07 Jun 2024 13:27

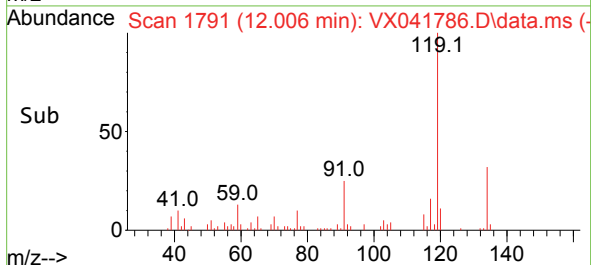
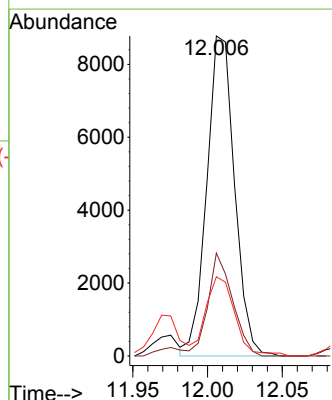
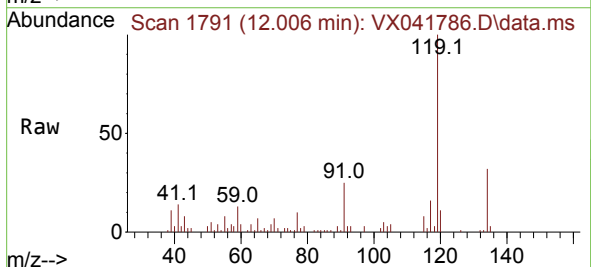
Tgt Ion:119 Resp: 11351

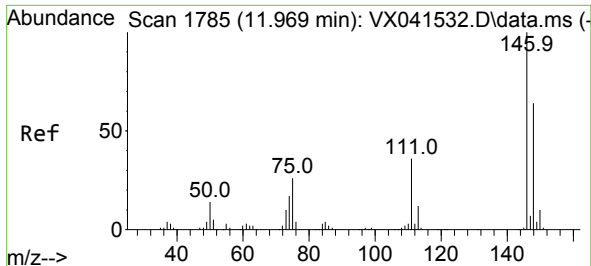
Ion Ratio Lower Upper

119 100

134 28.2 0.0 53.4

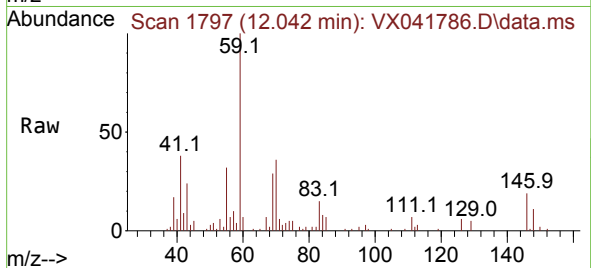
91 25.6 0.0 44.8



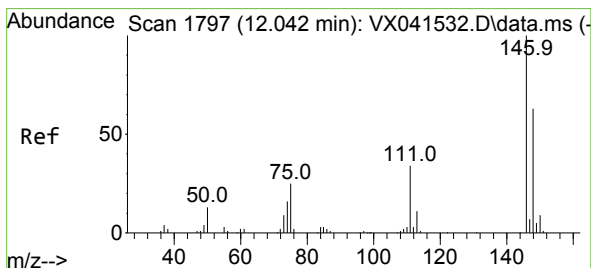
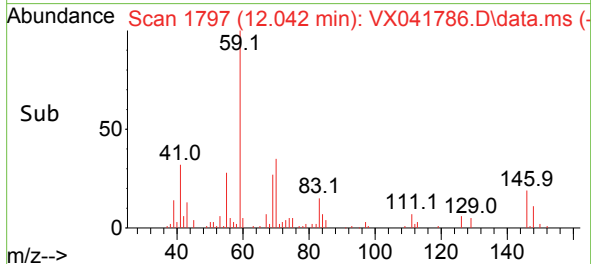
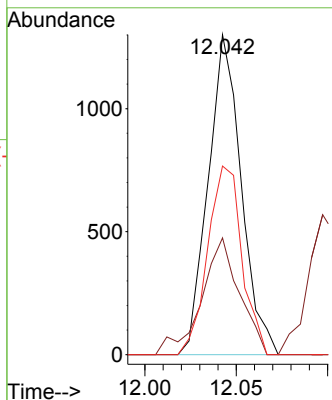


#83
1,3-Dichlorobenzene
Concen: 0.468 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.073 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Instrument :
MSVOA_X
ClientSampleId :

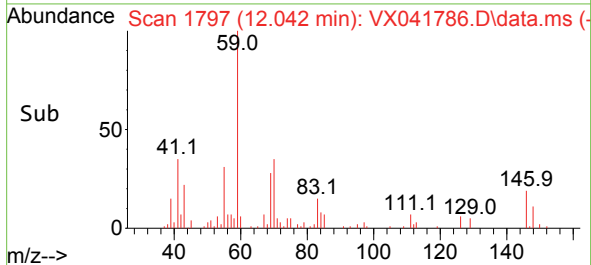
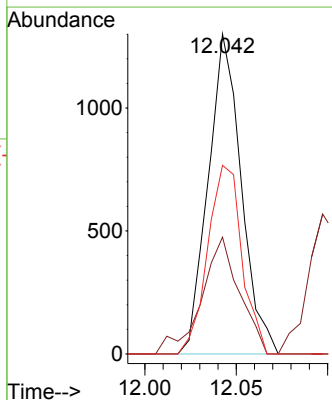
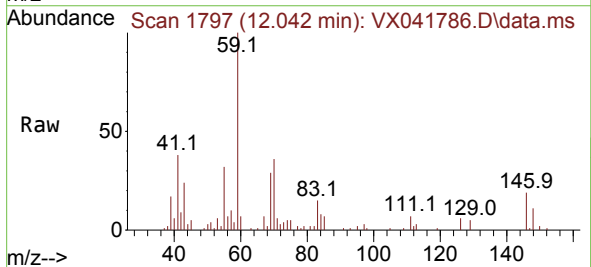


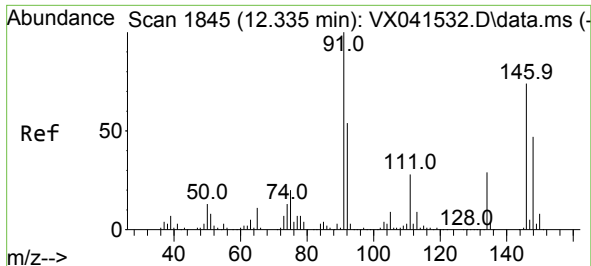
Tgt Ion:146 Resp: 1638
Ion Ratio Lower Upper
146 100
111 39.1 18.4 55.2
148 60.9 32.3 96.9



#84
1,4-Dichlorobenzene
Concen: 0.463 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

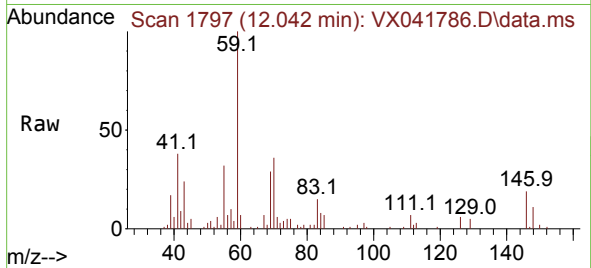
Tgt Ion:146 Resp: 1638
Ion Ratio Lower Upper
146 100
111 39.1 17.8 53.5
148 60.9 31.9 95.5



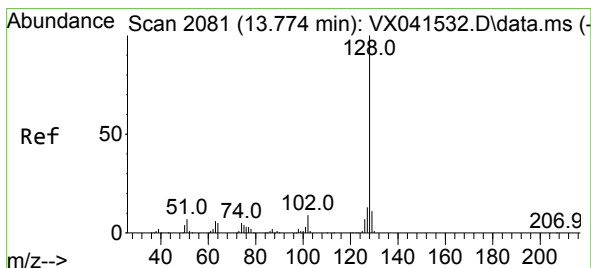
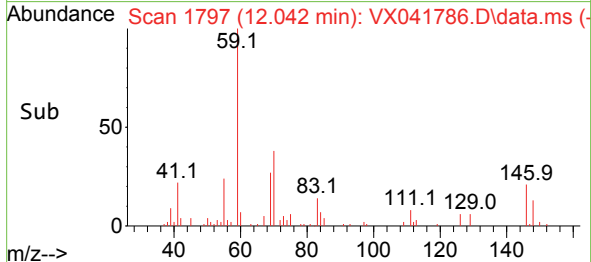
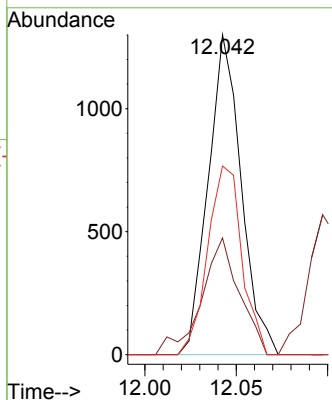


#87
1,2-Dichlorobenzene
Concen: 0.458 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. -0.293 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:146 Resp: 1638
Ion Ratio Lower Upper
146 100
111 39.1 19.3 57.9
148 60.9 31.8 95.4



#91
Naphthalene
Concen: 1.161 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX041786.D
Acq: 07 Jun 2024 13:27

Tgt Ion:128 Resp: 8336
Ion Ratio Lower Upper
128 100
127 14.3 10.6 16.0
129 10.5 8.8 13.2

