

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
 Data File : VX043067.D
 Acq On : 16 Aug 2024 11:42
 Operator : JC/MD
 Sample : P3606-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 16 23:53:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 13 13:22:56 2024
 Response via : Initial Calibration

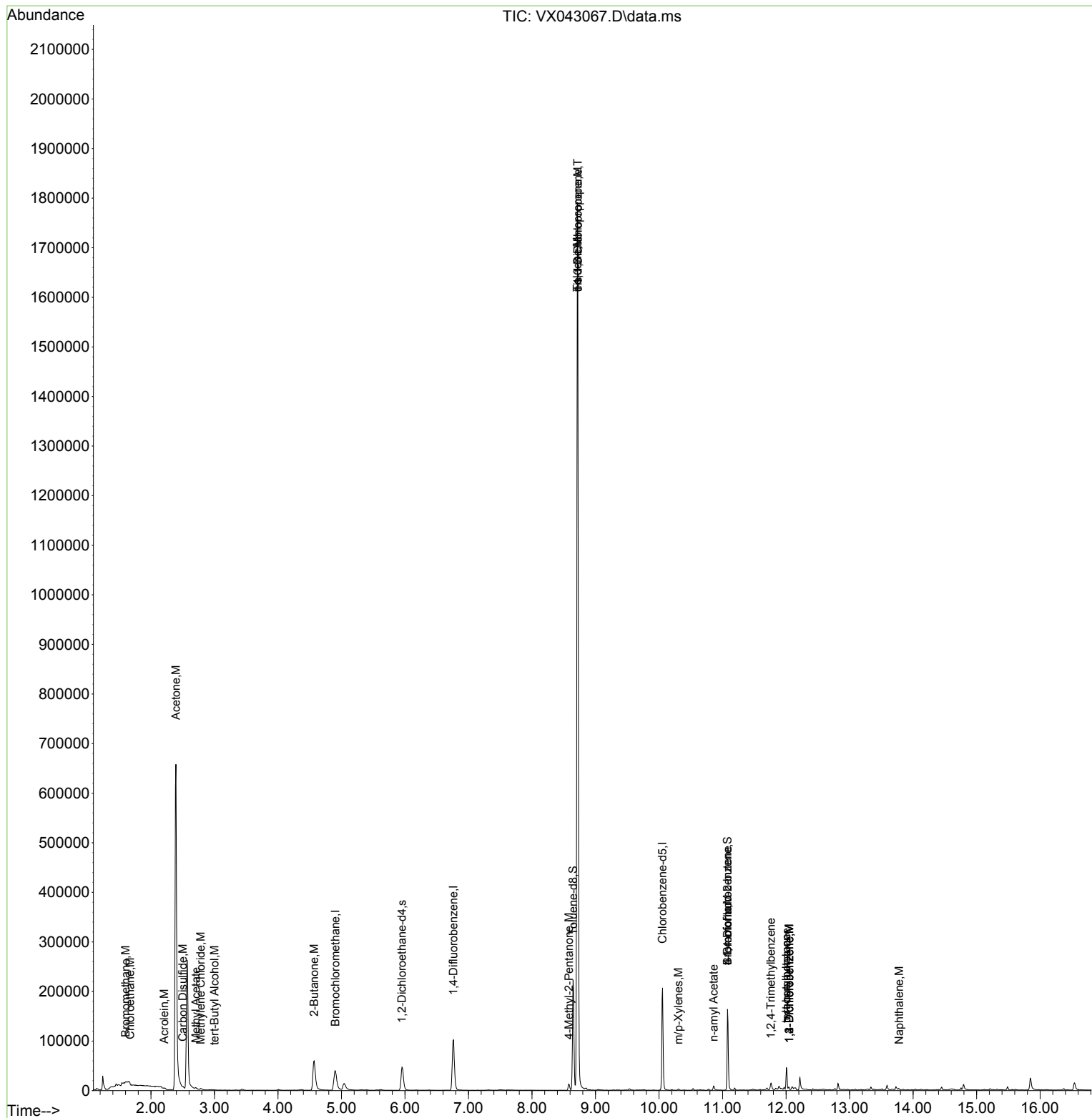
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.904	128	17962	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	110100	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96242	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	42815	29.447	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.167%
60) 4-Bromofluorobenzene	11.079	95	44239	27.077	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.267%
63) Toluene-d8	8.647	98	132887	30.058	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.200%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	232	0.617	ug/l #	43
6) Chloroethane	1.672	64	754	1.976	ug/l #	42
12) Methyl Acetate	2.709	43	5127	2.293	ug/l	99
13) Acrolein	2.209	56	141	0.383	ug/l	91
15) Acetone	2.392	58	251467	1061.628	ug/l	78
16) Carbon Disulfide	2.502	76	3407	0.931	ug/l #	91
18) Methylene Chloride	2.782	84	1156	0.807	ug/l	91
23) tert-Butyl Alcohol	3.001	59	447	1.209	ug/l #	100
30) 2-Butanone	4.568	43	112010	92.510	ug/l	99
47) n-amyl Acetate	10.860	43	1299	0.390	ug/l #	1
48) t-1,3-Dichloropropene	8.720	75	7500	3.623	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	7500	3.320	ug/l #	1
56) Bromoform	11.079	173	318	0.325	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	8499	3.819	ug/l	98
62) Toluene	8.714	91	1183384	215.253	ug/l	98
67) m/p-Xylenes	10.305	106	776	0.347	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	22130	26.666	ug/l #	11
79) tert-butylbenzene	12.006	119	19849	4.262	ug/l	62
80) 1,2,4-Trimethylbenzene	11.762	105	3524	0.756	ug/l	50
82) p-Isopropyltoluene	12.006	119	19849	4.169	ug/l	98
83) 1,3-Dichlorobenzene	12.049	146	890	0.375	ug/l	97
84) 1,4-Dichlorobenzene	12.049	146	890	0.375	ug/l	96
87) 1,2-Dichlorobenzene	12.049	146	890	0.377	ug/l	97
91) Naphthalene	13.780	128	1672	0.306	ug/l #	93

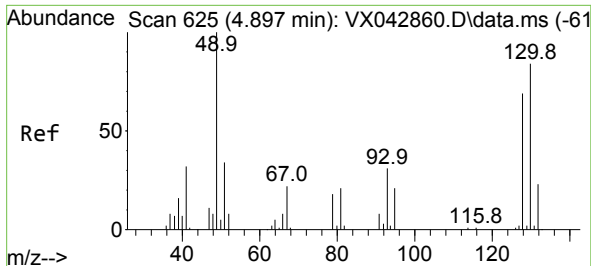
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :

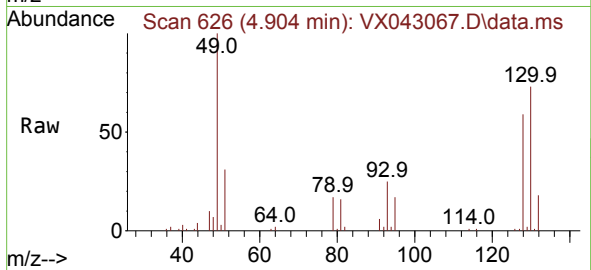
Quant Time: Aug 16 23:53:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 13 13:22:56 2024
Response via : Initial Calibration



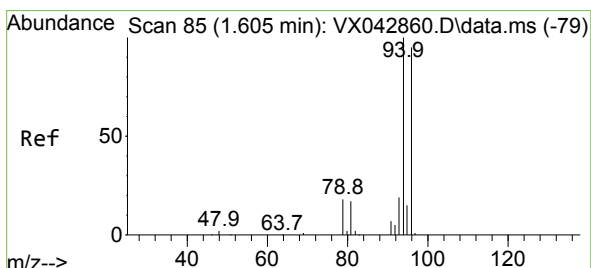
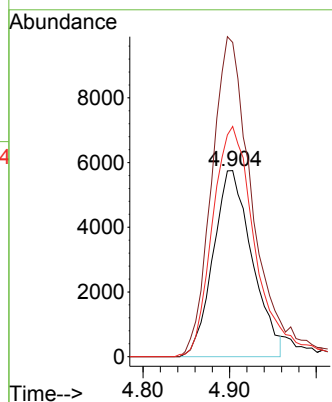
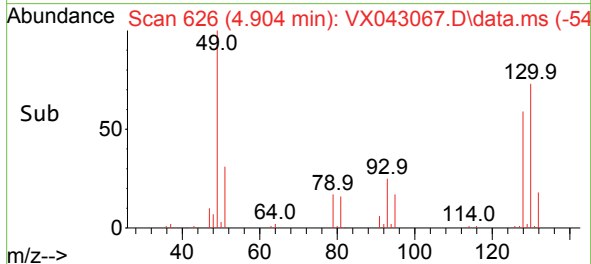


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Instrument :
MSVOA_X
ClientSampleId :

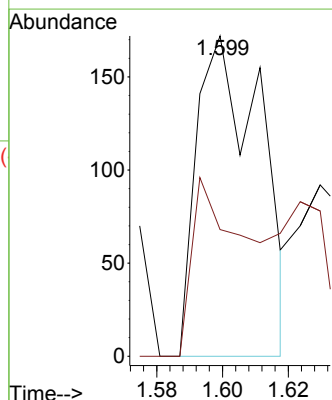
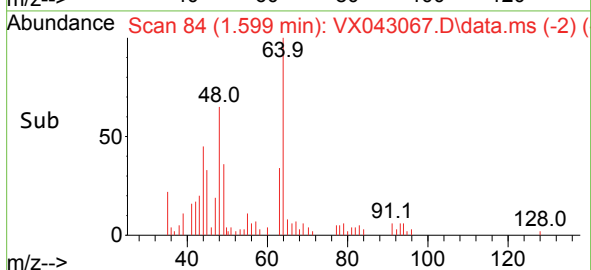
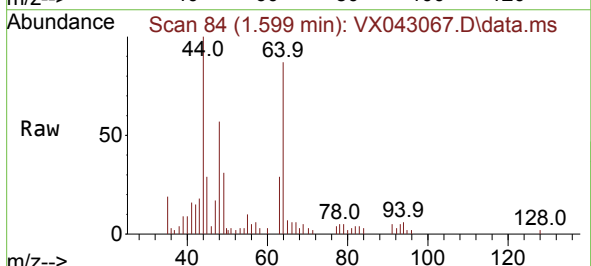


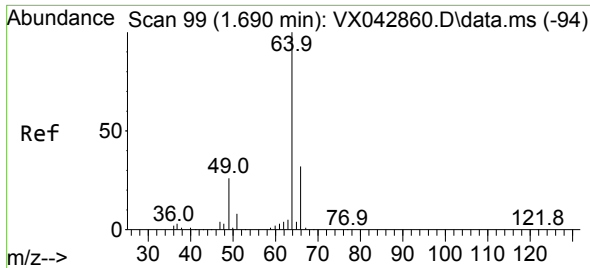
Tgt Ion:128 Resp: 17962
Ion Ratio Lower Upper
128 100
49 177.6 0.0 400.5
130 136.3 0.0 333.0



#5
Bromomethane
Concen: 0.617 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 39.5 76.2 114.4#

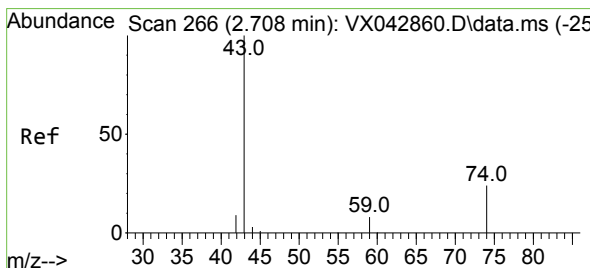
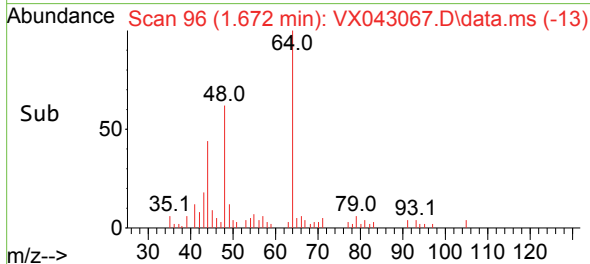
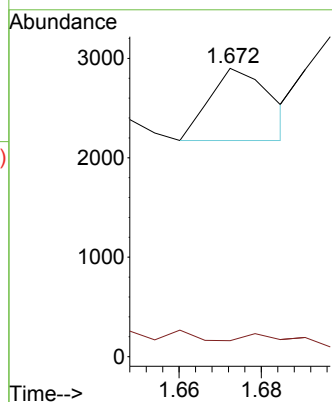
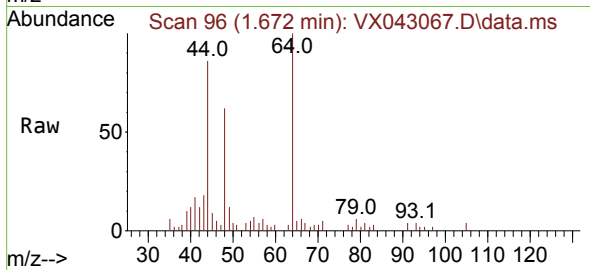




#6
Chloroethane
Concen: 1.976 ug/l
RT: 1.672 min Scan# 99
Delta R.T. 0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

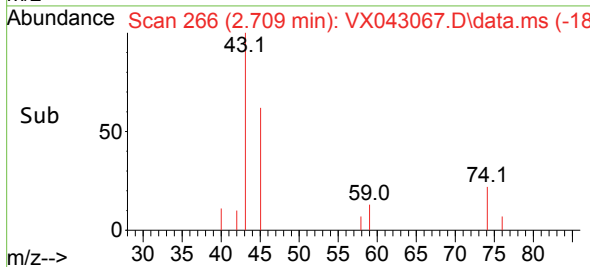
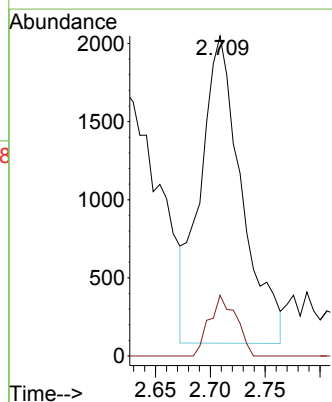
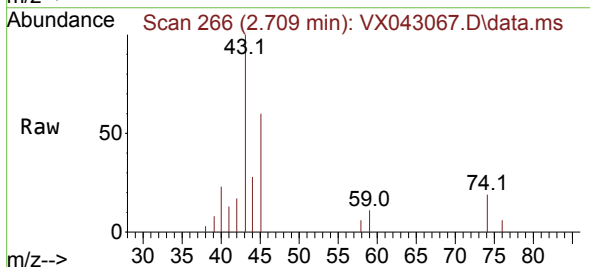
Instrument :
MSVOA_X
ClientSampleId :

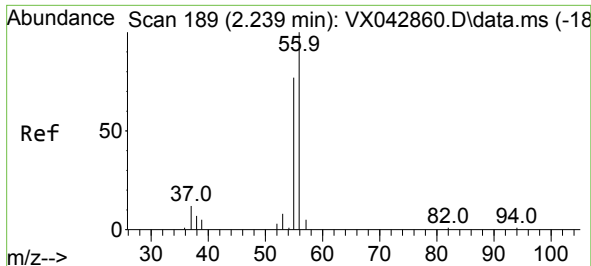
Tgt Ion: 64 Resp: 754
Ion Ratio Lower Upper
64 100
66 0.0 25.9 38.9#



#12
Methyl Acetate
Concen: 2.293 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

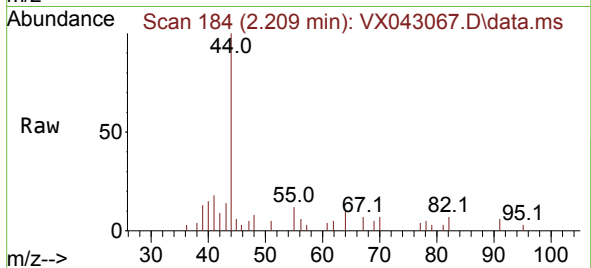
Tgt Ion: 43 Resp: 5127
Ion Ratio Lower Upper
43 100
74 25.0 19.4 29.2



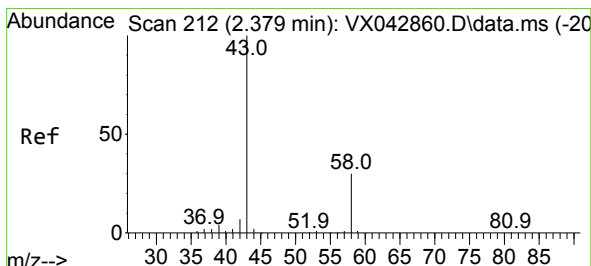
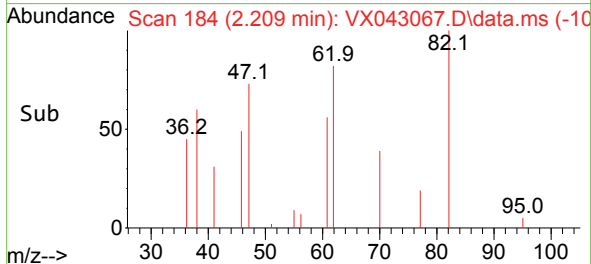
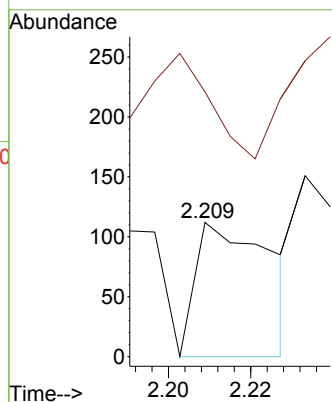


#13
Acrolein
Concen: 0.383 ug/l
RT: 2.209 min Scan# 11
Delta R.T. -0.031 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Instrument :
MSVOA_X
ClientSampleId :

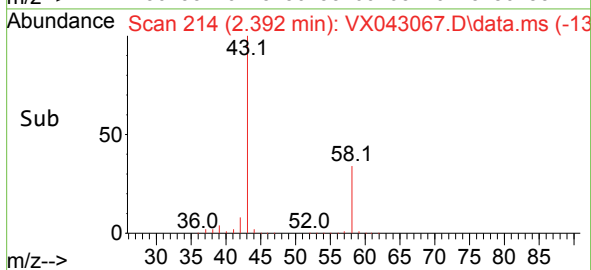
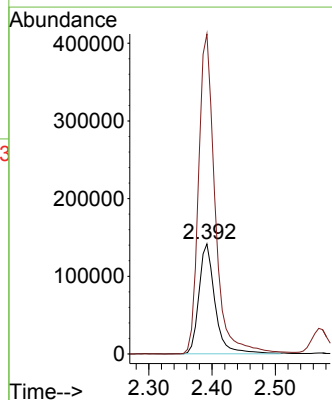
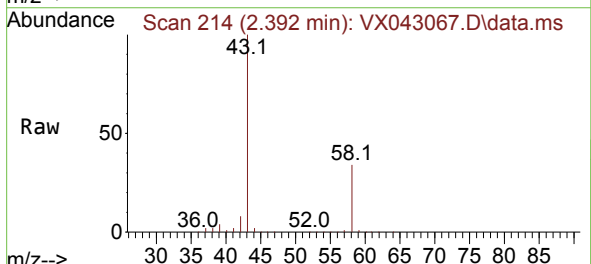


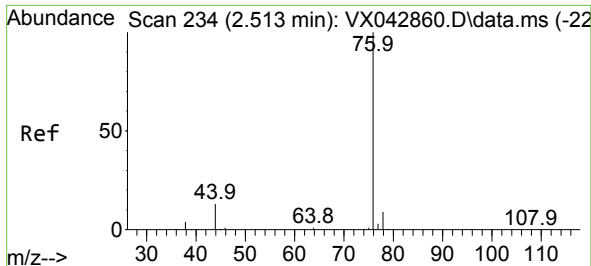
Tgt Ion: 56 Resp: 141
Ion Ratio Lower Upper
56 100
55 68.1 60.6 90.8



#15
Acetone
Concen: 1061.628 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

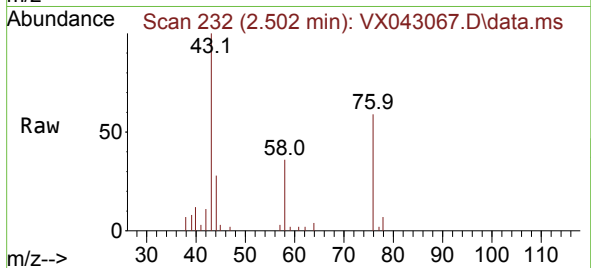
Tgt Ion: 58 Resp: 251467
Ion Ratio Lower Upper
58 100
43 291.0 269.9 404.9



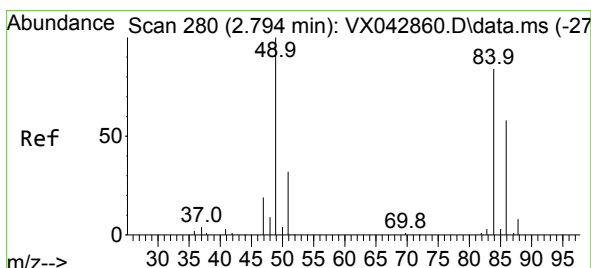
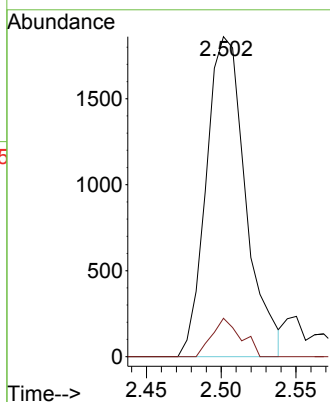
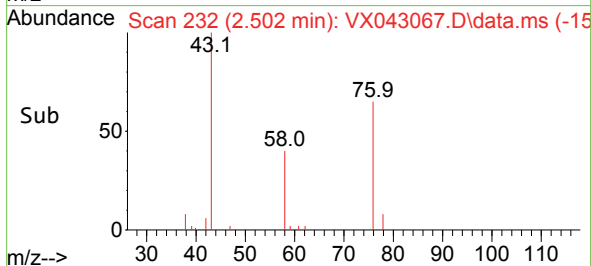


#16
Carbon Disulfide
Concen: 0.931 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Instrument :
MSVOA_X
ClientSampleId :

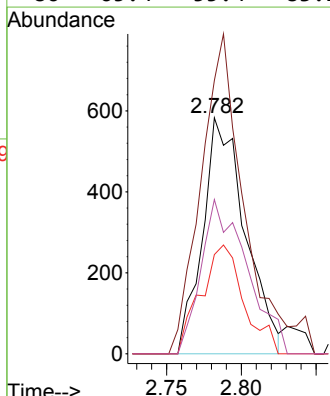
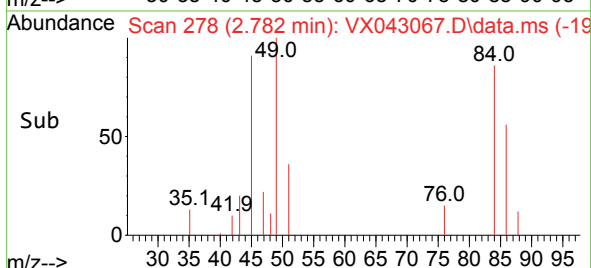
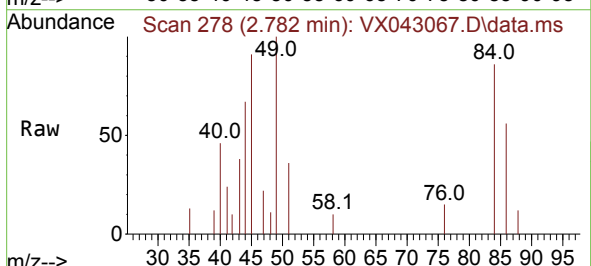


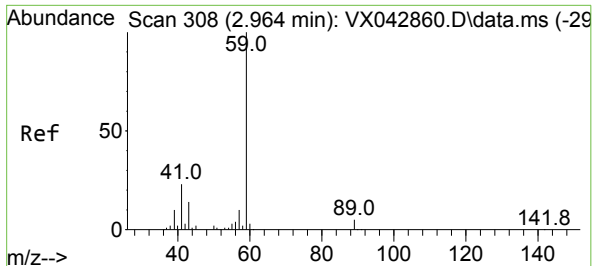
Tgt Ion: 76 Resp: 3407
Ion Ratio Lower Upper
76 100
78 12.0 7.1 10.7#



#18
Methylene Chloride
Concen: 0.807 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Tgt Ion: 84 Resp: 1156
Ion Ratio Lower Upper
84 100
49 105.5 95.0 142.6
51 42.0 30.1 45.1
86 65.4 55.4 83.2

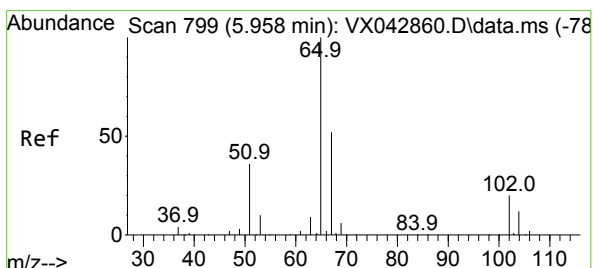
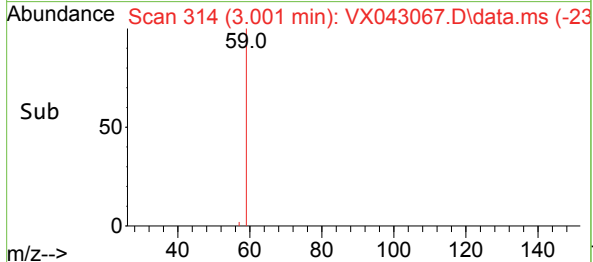
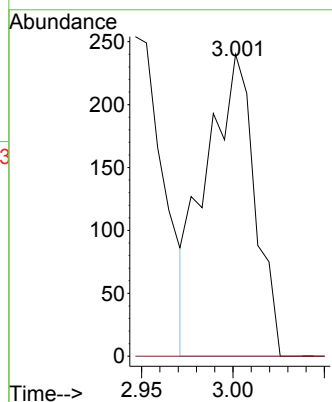
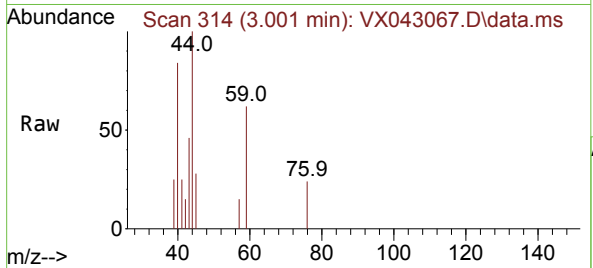




#23
tert-Butyl Alcohol
Concen: 1.209 ug/l
RT: 3.001 min Scan# 314
Delta R.T. 0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

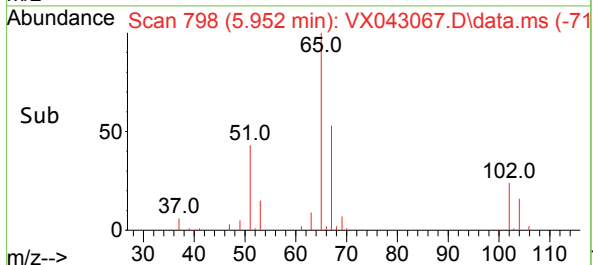
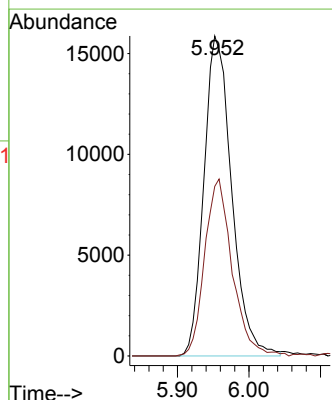
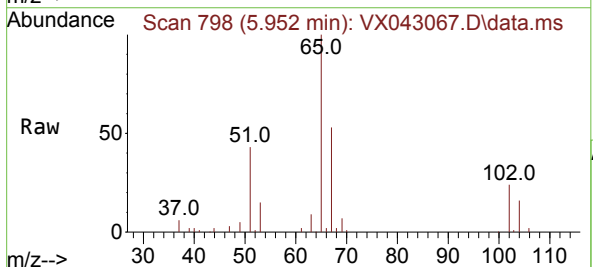
Instrument :
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ClientSampleId :

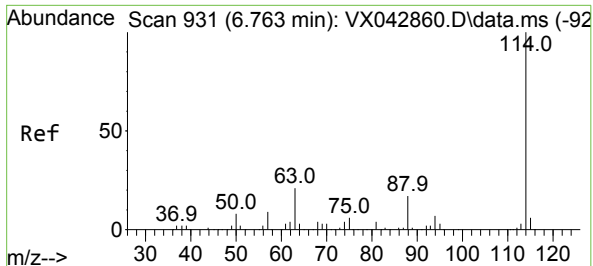
Tgt Ion: 59 Resp: 447
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 29.447 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Tgt Ion: 65 Resp: 42815
Ion Ratio Lower Upper
65 100
67 54.3 40.6 60.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX043067.D

Acq: 16 Aug 2024 11:42

Instrument :

MSVOA_X

ClientSampleId :

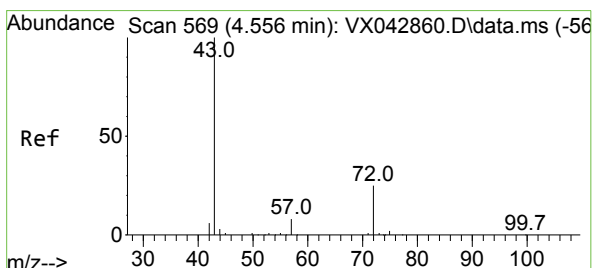
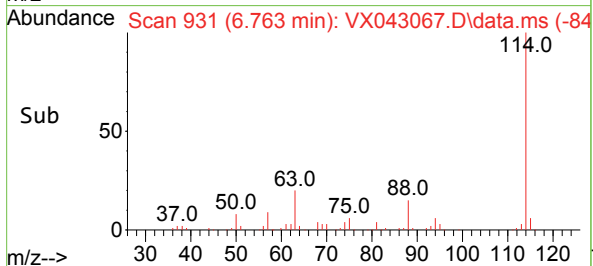
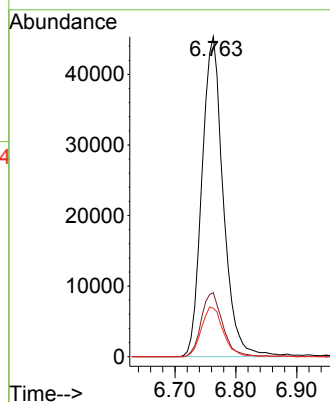
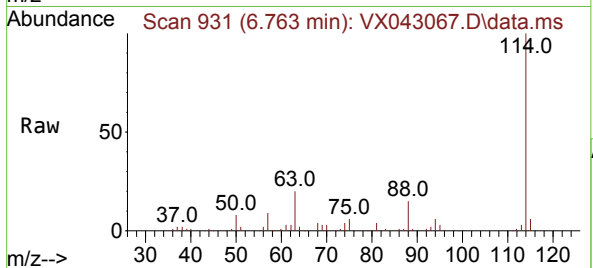
Tgt Ion:114 Resp: 110100

Ion Ratio Lower Upper

114 100

63 20.0 16.0 24.0

88 15.7 12.5 18.7



#30

2-Butanone

Concen: 92.510 ug/l

RT: 4.568 min Scan# 571

Delta R.T. -0.000 min

Lab File: VX043067.D

Acq: 16 Aug 2024 11:42

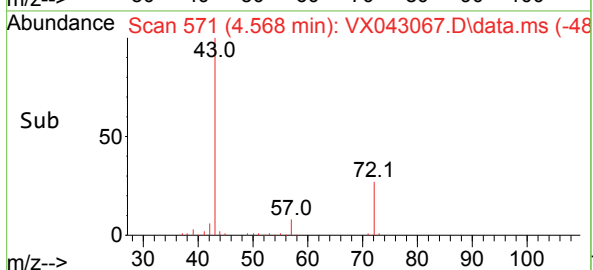
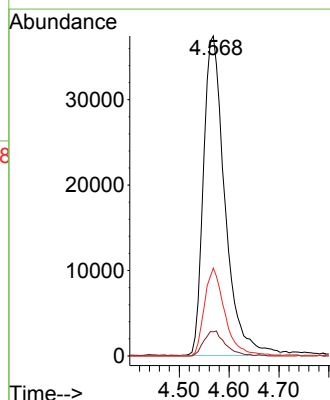
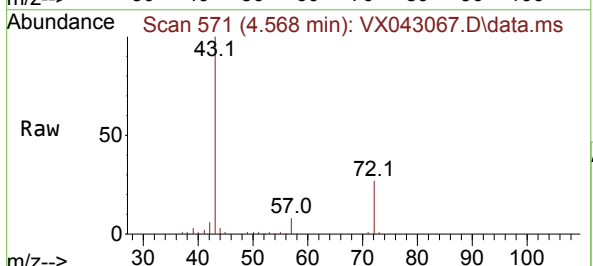
Tgt Ion: 43 Resp: 112010

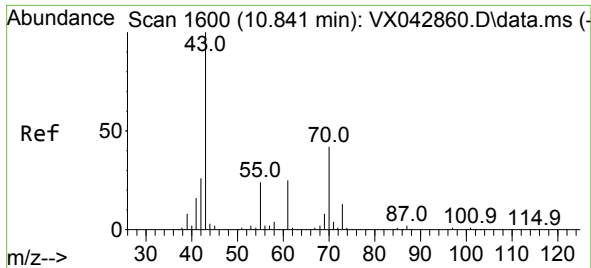
Ion Ratio Lower Upper

43 100

57 7.7 6.6 10.0

72 26.3 21.0 31.4

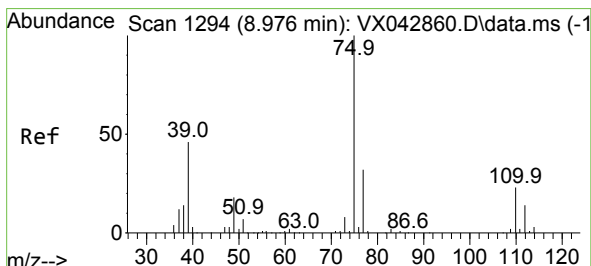
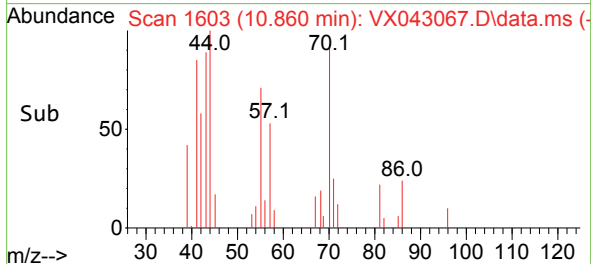
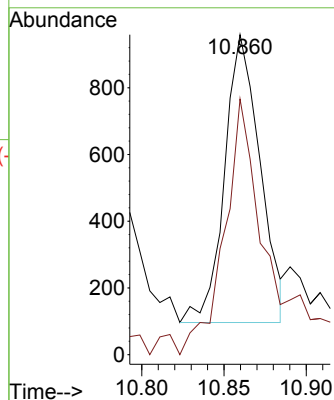
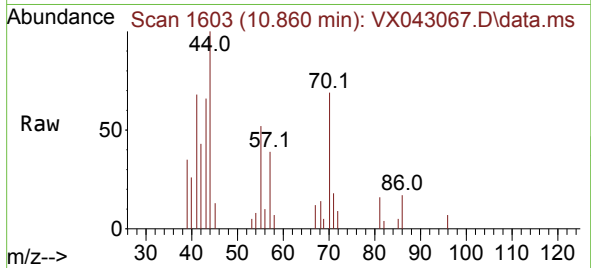




#47
n-amy1 Acetate
Concen: 0.390 ug/l
RT: 10.860 min Scan# 1603
Delta R.T. 0.018 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

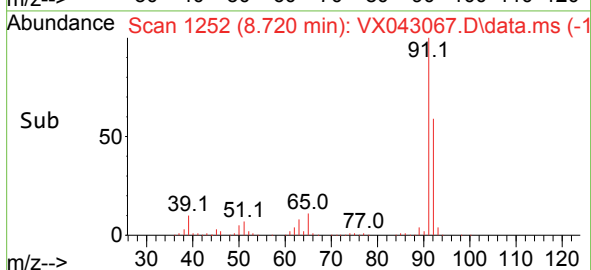
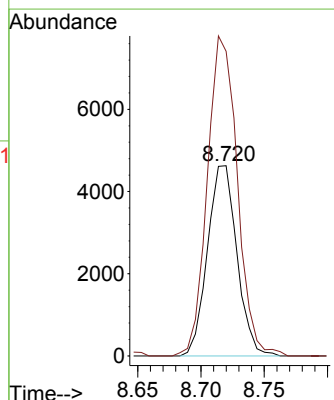
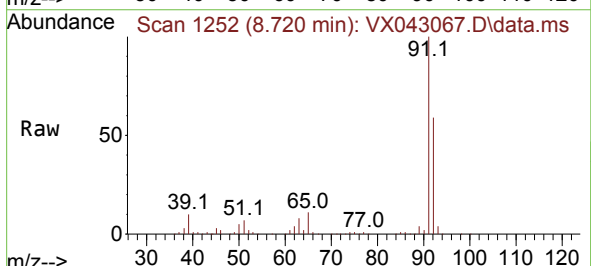
Instrument :
MSVOA_X
ClientSampleId :

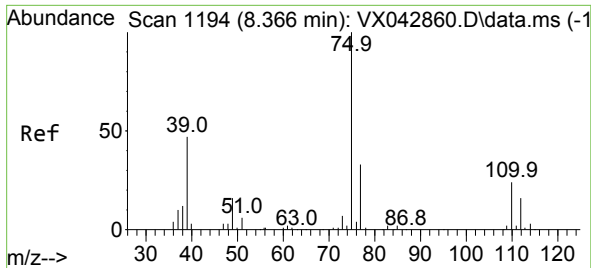
Tgt Ion: 43 Resp: 1299
Ion Ratio Lower Upper
43 100
55 81.2 19.6 29.4#



#48
t-1,3-Dichloropropene
Concen: 3.623 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.262 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Tgt Ion: 75 Resp: 7500
Ion Ratio Lower Upper
75 100
77 158.5 25.6 38.4#





#49

cis-1,3-Dichloropropene

Concen: 3.320 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.354 min

Lab File: VX043067.D

Acq: 16 Aug 2024 11:42

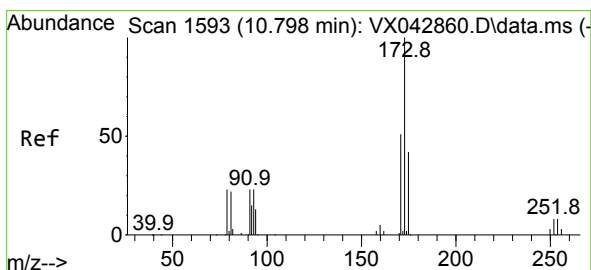
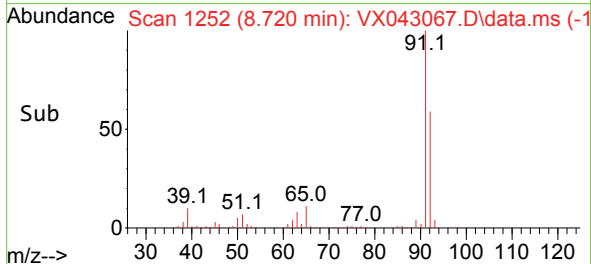
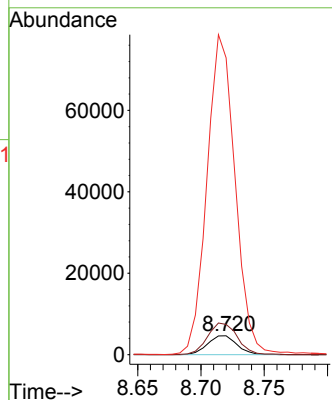
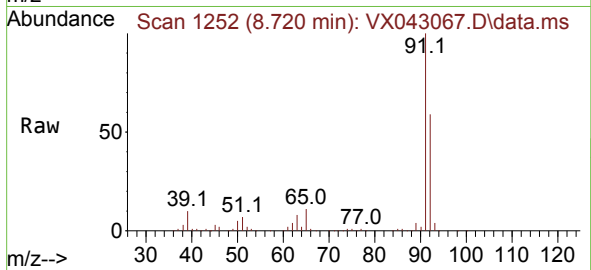
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 75 Resp: 7500

Ion	Ratio	Lower	Upper
75	100		
77	158.5	26.8	40.2#
39	1566.0	37.5	56.3#



#56

Bromoform

Concen: 0.325 ug/l

RT: 11.079 min Scan# 1639

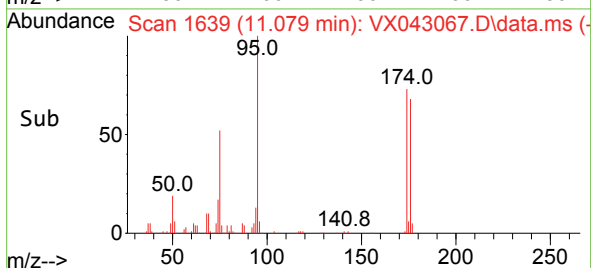
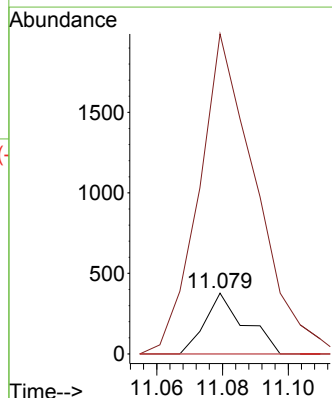
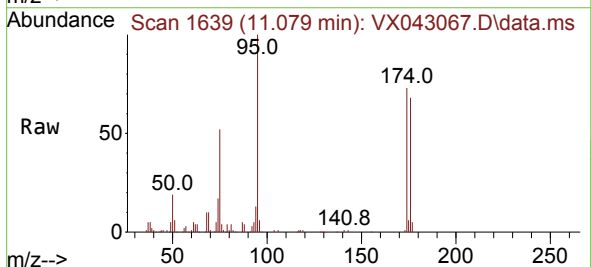
Delta R.T. 0.280 min

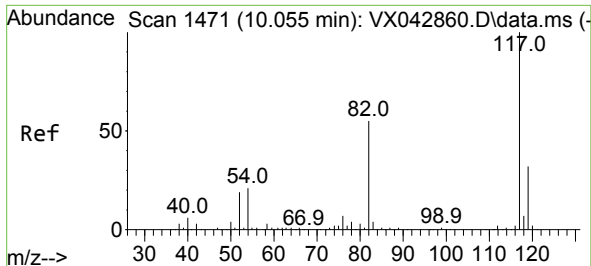
Lab File: VX043067.D

Acq: 16 Aug 2024 11:42

Tgt Ion:173 Resp: 318

Ion	Ratio	Lower	Upper
173	100		
175	753.1	37.1	55.7#
254	0.0	6.6	10.0#

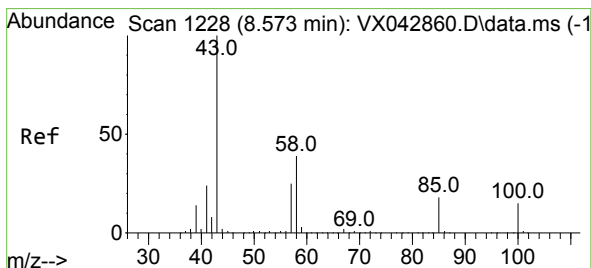
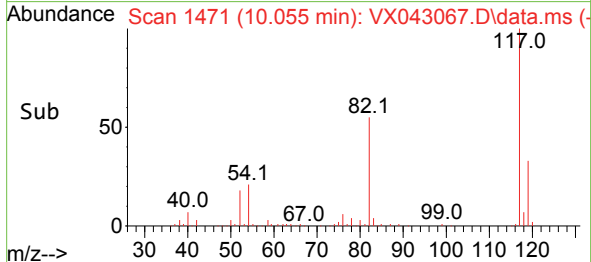
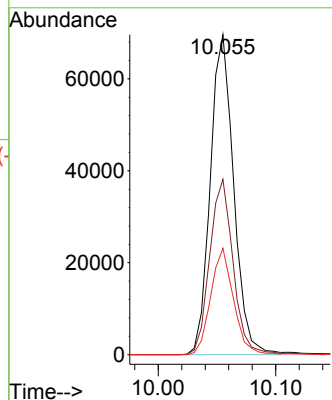
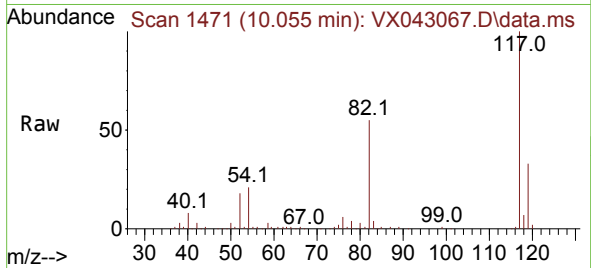




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

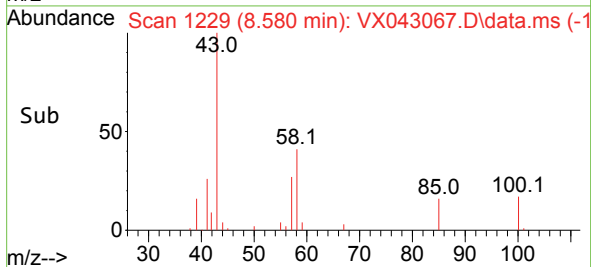
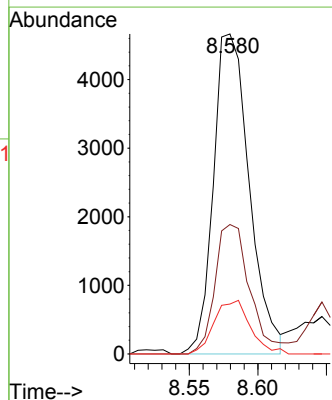
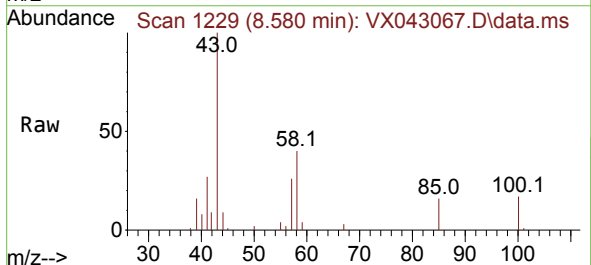
Instrument :
MSVOA_X
ClientSampleId :

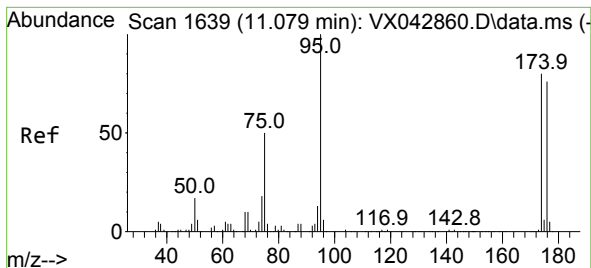
Tgt Ion:117 Resp: 96242
Ion Ratio Lower Upper
117 100
82 54.8 44.9 67.3
119 32.4 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 3.819 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Tgt Ion: 43 Resp: 8499
Ion Ratio Lower Upper
43 100
58 39.7 31.4 47.0
85 16.8 14.6 21.8





#60

4-Bromofluorobenzene

Concen: 27.077 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX043067.D

Acq: 16 Aug 2024 11:42

Instrument :

MSVOA_X

ClientSampleId :

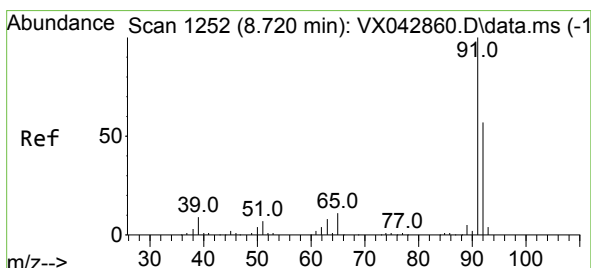
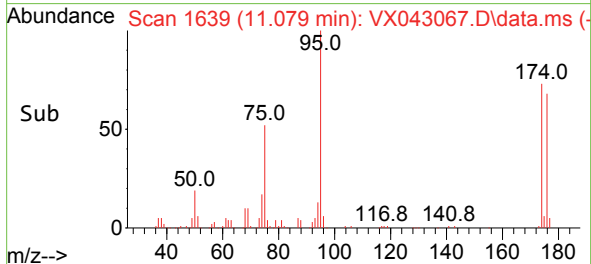
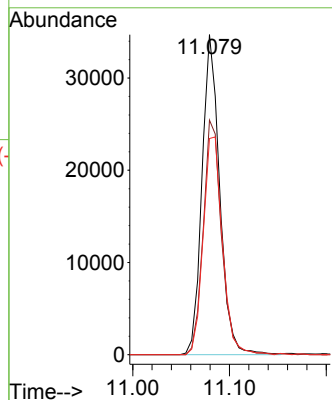
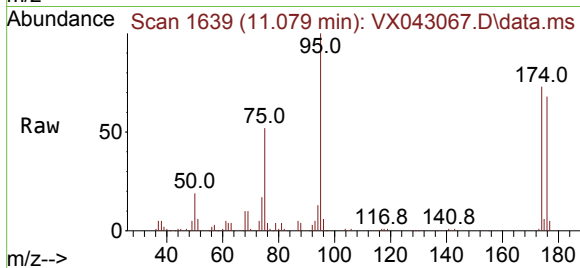
Tgt Ion: 95 Resp: 44239

Ion Ratio Lower Upper

95 100

174 75.8 65.0 97.6

176 74.0 63.4 95.0



#62

Toluene

Concen: 215.253 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.006 min

Lab File: VX043067.D

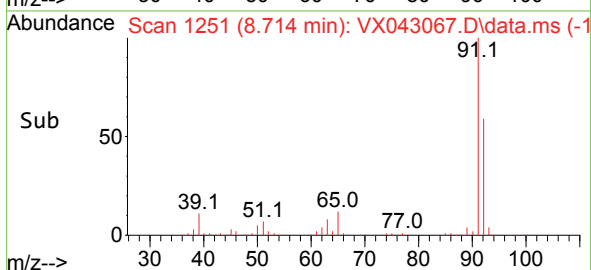
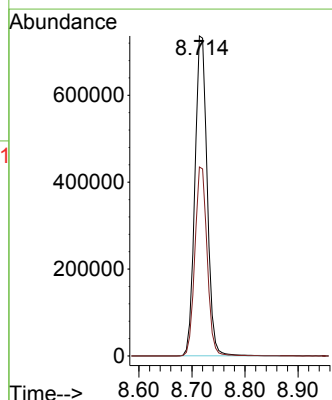
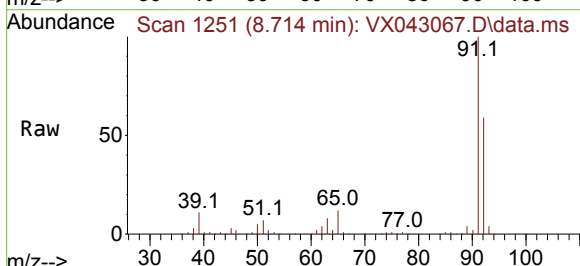
Acq: 16 Aug 2024 11:42

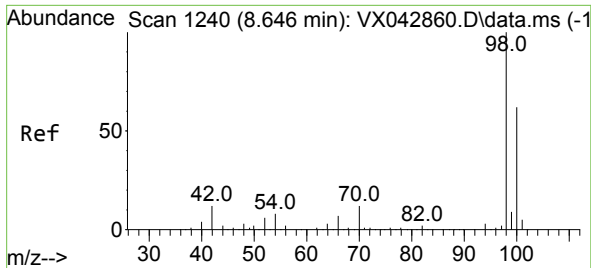
Tgt Ion: 91 Resp: 1183384

Ion Ratio Lower Upper

91 100

92 58.9 45.7 68.5

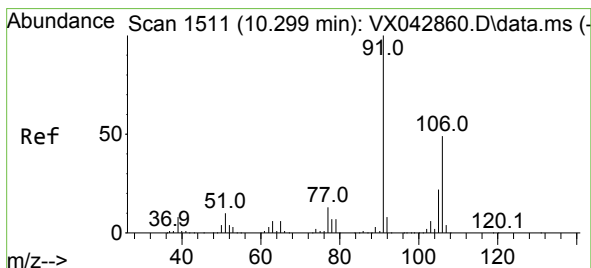
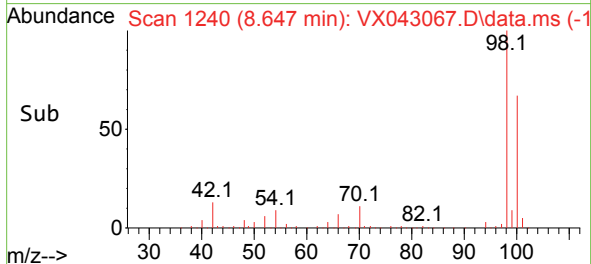
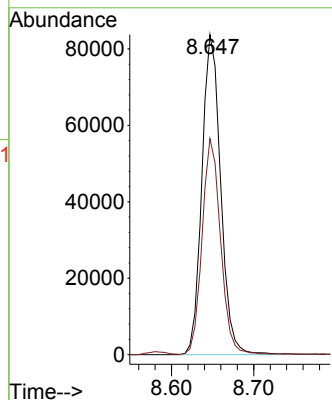
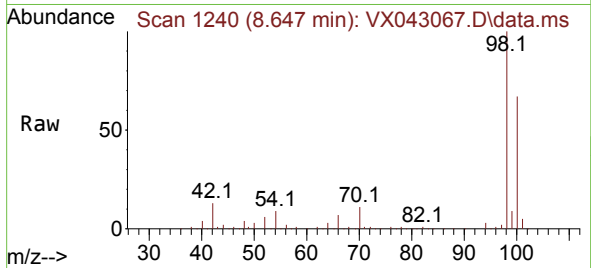




#63
Toluene-d8
Concen: 30.058 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

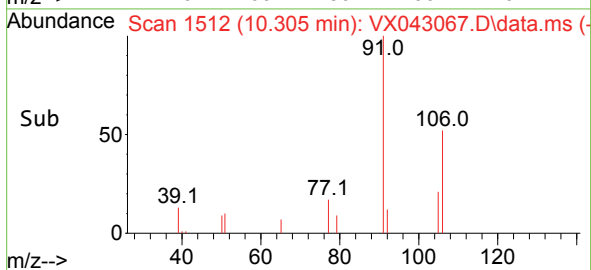
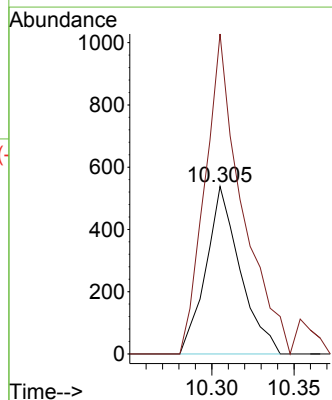
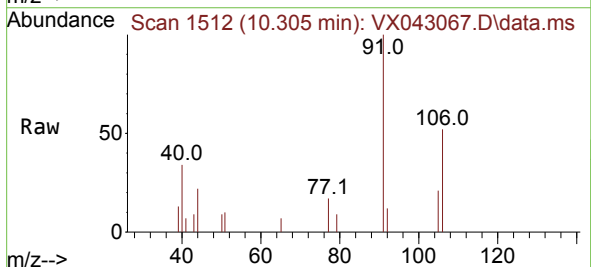
Instrument :
MSVOA_X
ClientSampleId :

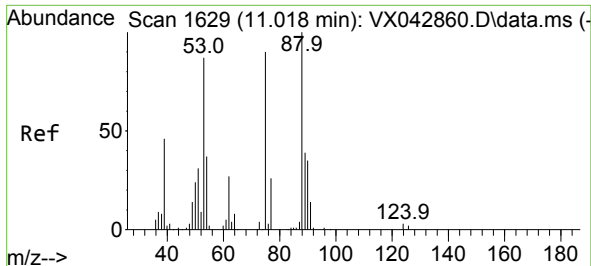
Tgt Ion: 98 Resp: 132887
Ion Ratio Lower Upper
98 100
100 66.4 50.9 76.3



#67
m/p-Xylenes
Concen: 0.347 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Tgt Ion:106 Resp: 776
Ion Ratio Lower Upper
106 100
91 206.2 165.3 247.9

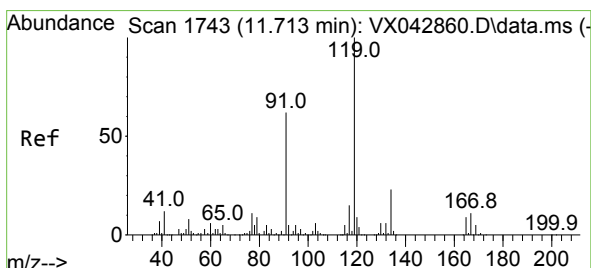
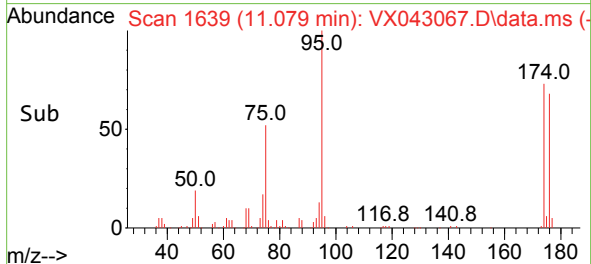
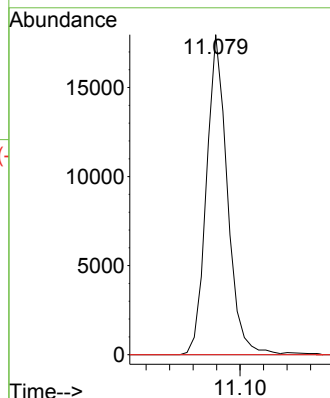
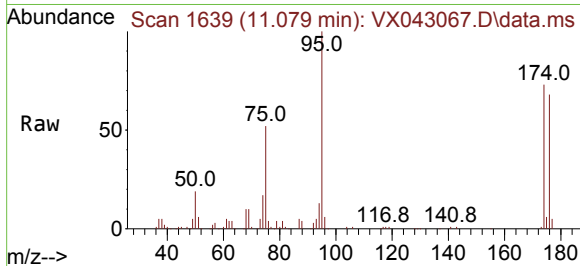




#77
 t-1,4-Dichloro-2-butene
 Concen: 26.666 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX043067.D
 Acq: 16 Aug 2024 11:42

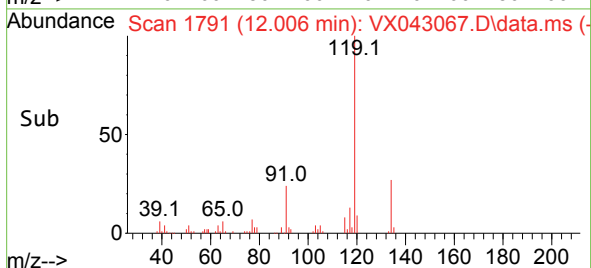
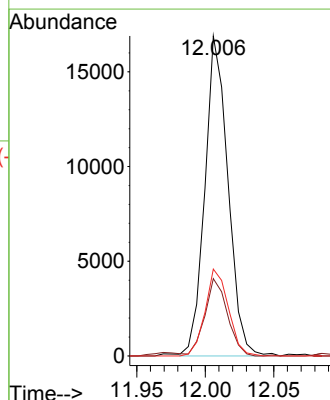
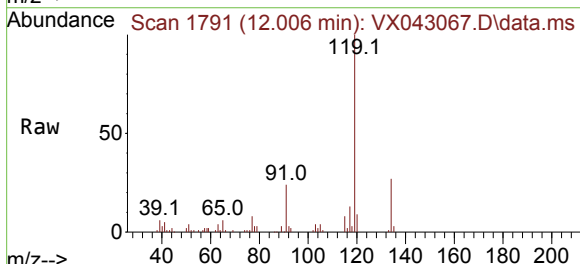
Instrument :
 MSVOA_X
 ClientSampleId :

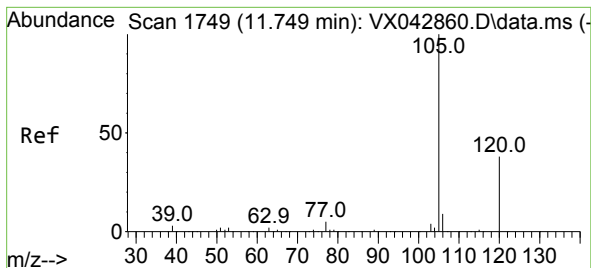
Tgt Ion: 75 Resp: 22130
 Ion Ratio Lower Upper
 75 100
 53 0.0 48.5 145.5#
 89 0.0 21.9 65.5#



#79
 tert-butylbenzene
 Concen: 4.262 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.293 min
 Lab File: VX043067.D
 Acq: 16 Aug 2024 11:42

Tgt Ion: 119 Resp: 19849
 Ion Ratio Lower Upper
 119 100
 91 23.5 0.0 118.6
 134 27.2 0.0 44.4





#80

1,2,4-Trimethylbenzene

Concen: 0.756 ug/l

RT: 11.762 min Scan# 1751

Delta R.T. 0.012 min

Lab File: VX043067.D

Acq: 16 Aug 2024 11:42

Instrument :

MSVOA_X

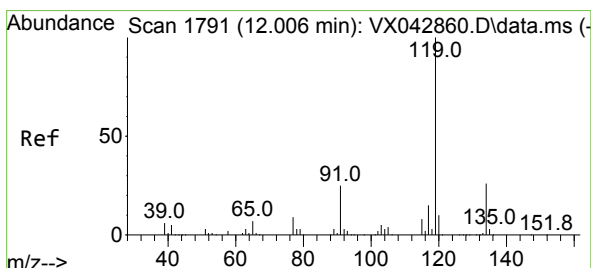
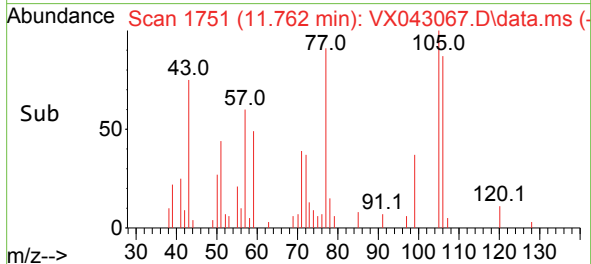
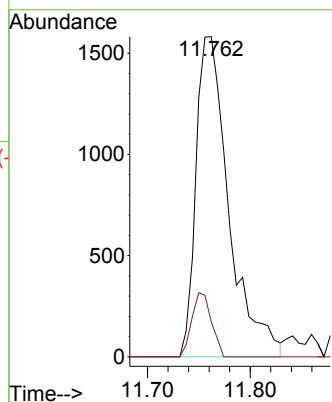
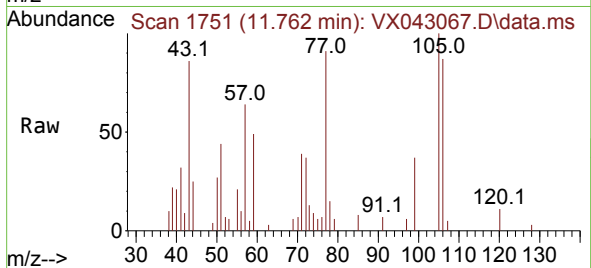
ClientSampleId :

Tgt Ion:105 Resp: 3524

Ion Ratio Lower Upper

105 100

120 11.8 0.0 87.8



#82

p-Isopropyltoluene

Concen: 4.169 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX043067.D

Acq: 16 Aug 2024 11:42

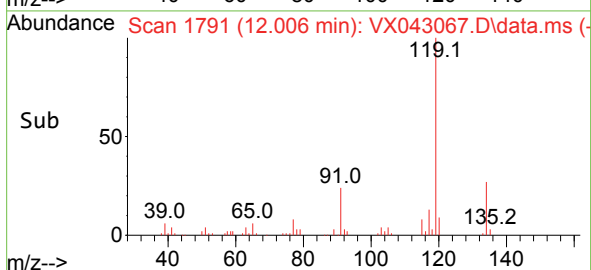
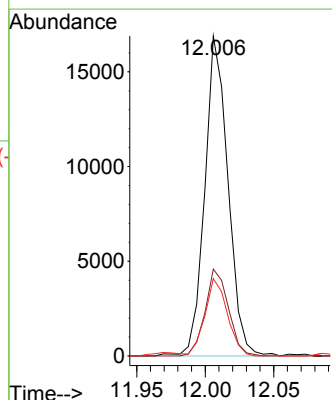
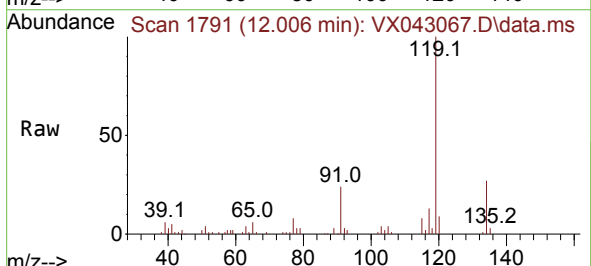
Tgt Ion:119 Resp: 19849

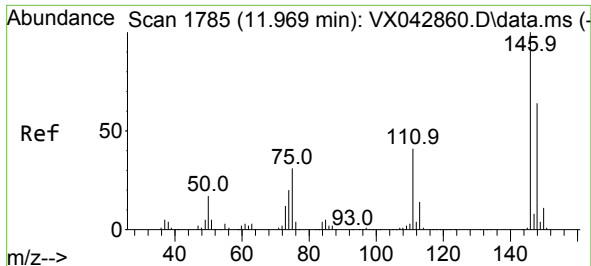
Ion Ratio Lower Upper

119 100

134 27.2 0.0 51.8

91 23.5 0.0 48.4

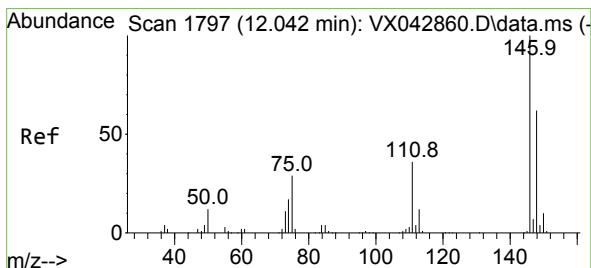
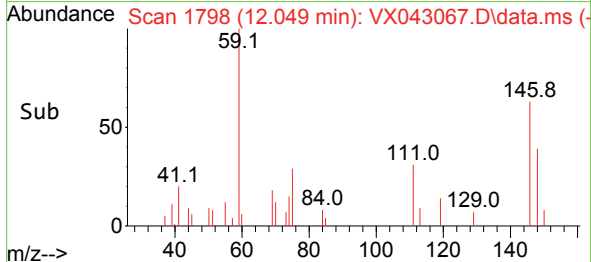
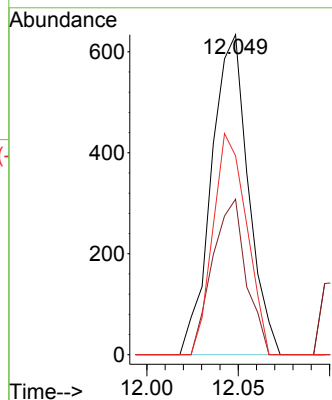
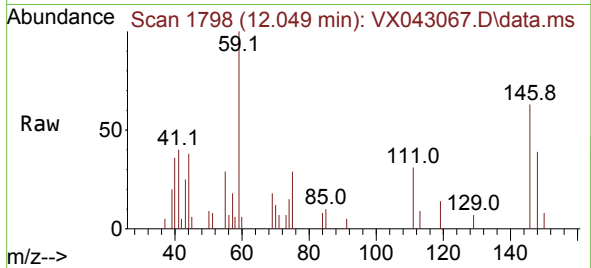




#83
 1,3-Dichlorobenzene
 Concen: 0.375 ug/l
 RT: 12.049 min Scan# 1798
 Delta R.T. 0.079 min
 Lab File: VX043067.D
 Acq: 16 Aug 2024 11:42

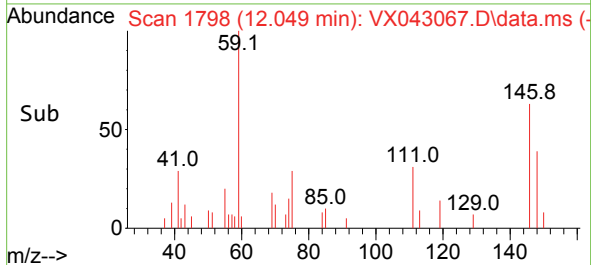
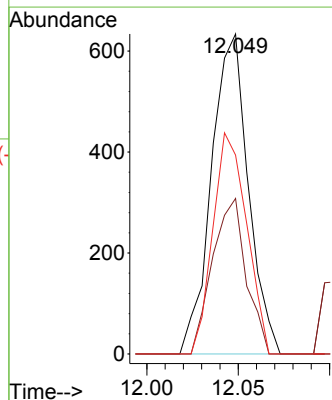
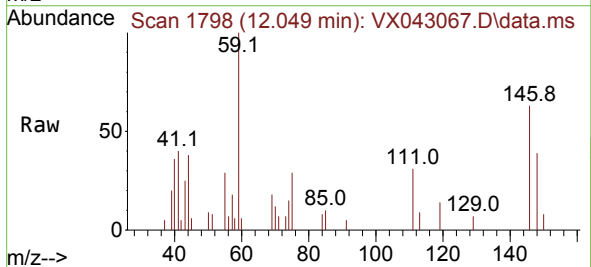
Instrument :
 MSVOA_X
 ClientSampleId :

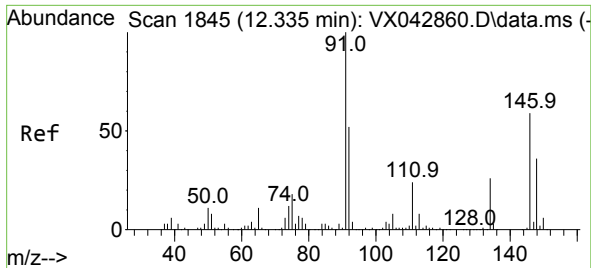
Tgt Ion:146 Resp: 890
 Ion Ratio Lower Upper
 146 100
 111 44.4 20.3 61.0
 148 63.1 31.7 95.1



#84
 1,4-Dichlorobenzene
 Concen: 0.375 ug/l
 RT: 12.049 min Scan# 1798
 Delta R.T. 0.006 min
 Lab File: VX043067.D
 Acq: 16 Aug 2024 11:42

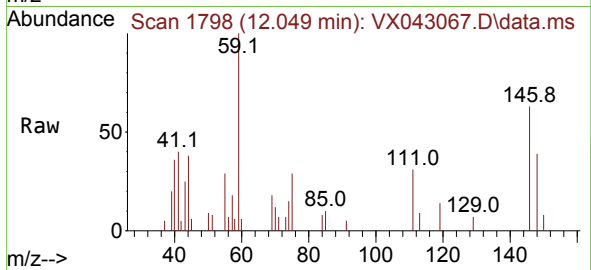
Tgt Ion:146 Resp: 890
 Ion Ratio Lower Upper
 146 100
 111 44.4 19.4 58.4
 148 63.1 31.4 94.2



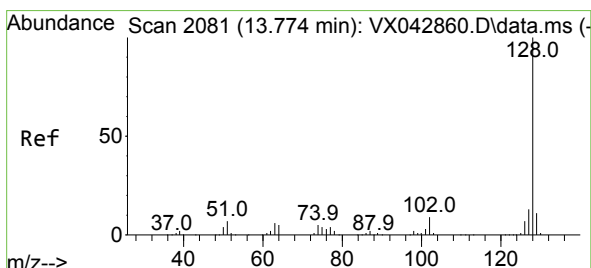
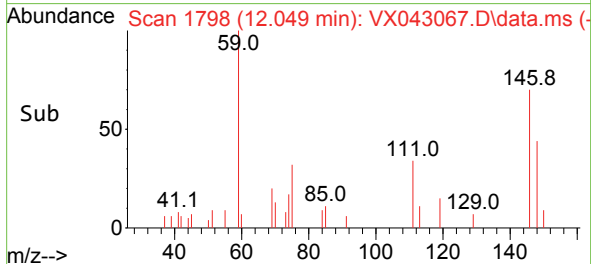
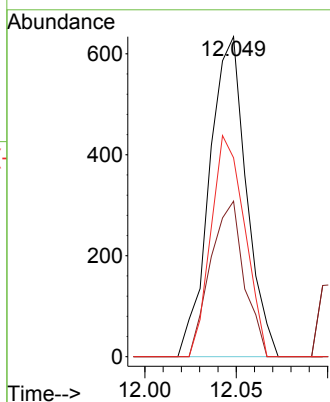


#87
1,2-Dichlorobenzene
Concen: 0.377 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. -0.287 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:146 Resp: 890
Ion Ratio Lower Upper
146 100
111 44.4 21.0 63.0
148 63.1 30.8 92.4



#91
Naphthalene
Concen: 0.306 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX043067.D
Acq: 16 Aug 2024 11:42

Tgt Ion:128 Resp: 1672
Ion Ratio Lower Upper
128 100
127 11.0 10.2 15.4
129 7.5 8.8 13.2#

