

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
 Data File : VX043066.D
 Acq On : 16 Aug 2024 11:19
 Operator : JC/MD
 Sample : P3606-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 16 23:53:10 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)

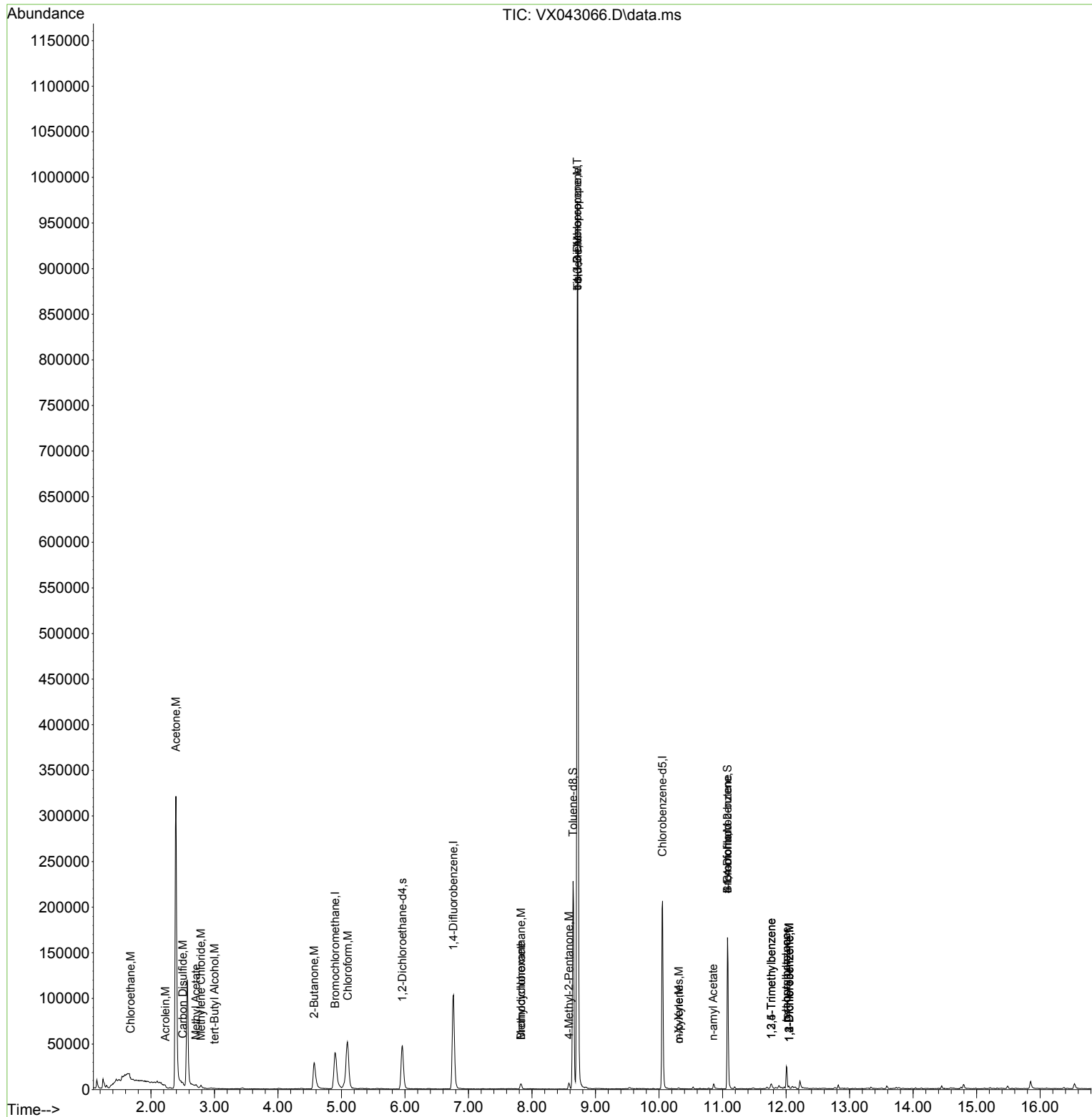
Internal Standards						
1) Bromochloromethane	4.897	128	18976	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	111789	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98358	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44415	28.915	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.367%		
60) 4-Bromofluorobenzene	11.079	95	44569	26.692	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	88.967%		
63) Toluene-d8	8.647	98	134686	29.809	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.367%		
Target Compounds					Qvalue	
6) Chloroethane	1.678	64	1332	3.305	ug/l #	45
12) Methyl Acetate	2.709	43	2348	0.994	ug/l	91
13) Acrolein	2.227	56	287	0.739	ug/l	93
15) Acetone	2.392	58	121022	483.621	ug/l	84
16) Carbon Disulfide	2.502	76	1990	0.515	ug/l #	85
18) Methylene Chloride	2.788	84	1326	0.876	ug/l	93
23) tert-Butyl Alcohol	3.001	59	213	0.545	ug/l #	100
25) Chloroform	5.099	83	59774	23.925	ug/l	98
30) 2-Butanone	4.568	43	54092	44.000	ug/l	99
38) Methylcyclohexane	7.830	83	4073	1.729	ug/l #	18
41) Bromodichloromethane	7.830	83	4214	2.225	ug/l #	94
47) n-amyl Acetate	10.854	43	1261	0.373	ug/l #	19
48) t-1,3-Dichloropropene	8.714	75	4397	2.092	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	4397	1.917	ug/l #	1
56) Bromoform	11.079	173	331	0.334	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	4630	2.036	ug/l	96
62) Toluene	8.720	91	649872	115.666	ug/l	98
67) m/p-Xylenes	10.311	106	482	0.211	ug/l	95
68) o-Xylene	10.311	106	482	0.209	ug/l	99
76) 1,3,5-Trimethylbenzene	11.768	105	1612	0.345	ug/l	55
77) t-1,4-Dichloro-2-butene	11.079	75	22099	26.055	ug/l #	11
79) tert-butylbenzene	12.006	119	11129	2.338	ug/l	62
80) 1,2,4-Trimethylbenzene	11.768	105	1612	0.338	ug/l	59
82) p-Isopropyltoluene	12.006	119	11129	2.287	ug/l	97
83) 1,3-Dichlorobenzene	12.049	146	537	0.221	ug/l	92
84) 1,4-Dichlorobenzene	12.049	146	537	0.221	ug/l	94
87) 1,2-Dichlorobenzene	12.049	146	537	0.223	ug/l	93

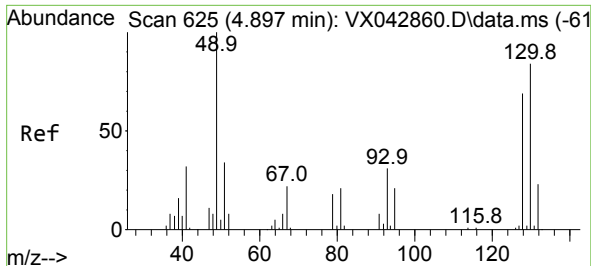
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
Data File : VX043066.D
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MSVOA_X
ClientSampleId :

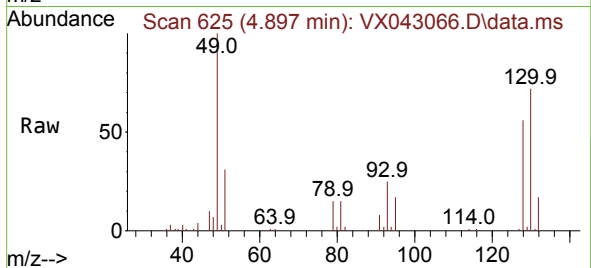
Quant Time: Aug 16 23:53:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 13 13:22:56 2024
Response via : Initial Calibration



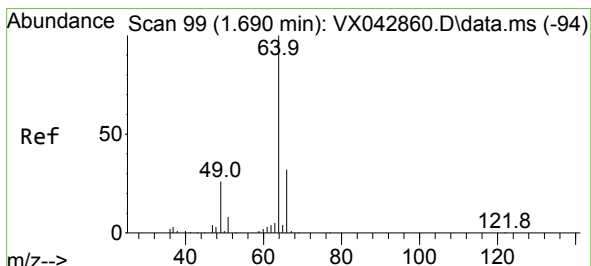
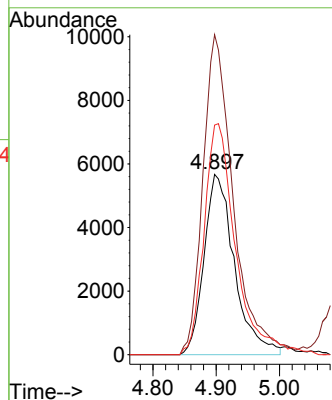
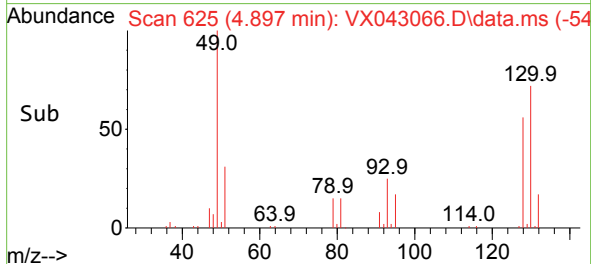


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Instrument :
MSVOA_X
ClientSampleId :

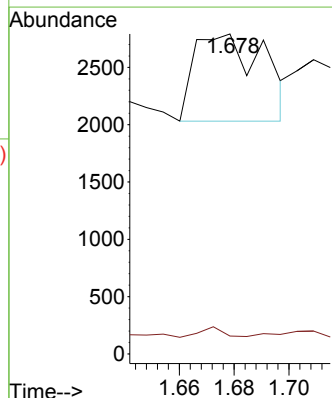
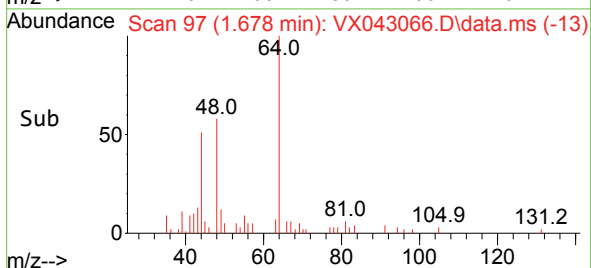
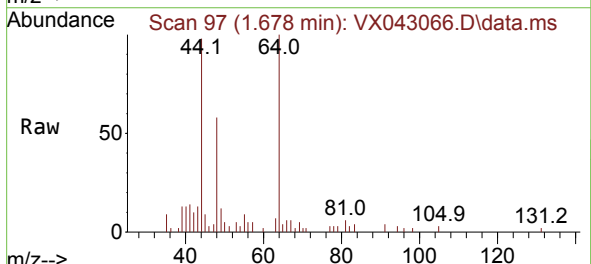


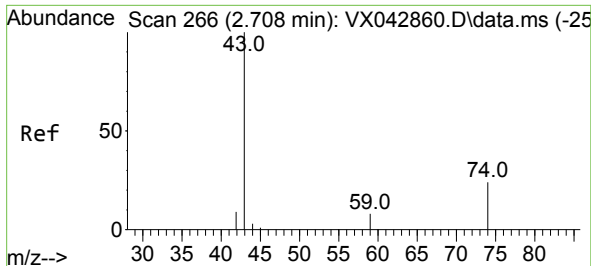
Tgt Ion:128 Resp: 18976
Ion Ratio Lower Upper
128 100
49 176.9 0.0 400.5
130 131.2 0.0 333.0



#6
Chloroethane
Concen: 3.305 ug/l
RT: 1.678 min Scan# 97
Delta R.T. 0.012 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Tgt Ion: 64 Resp: 1332
Ion Ratio Lower Upper
64 100
66 1.4 25.9 38.9#

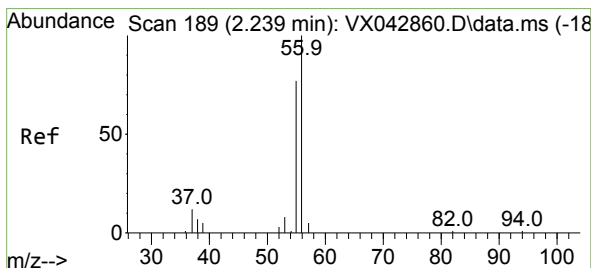
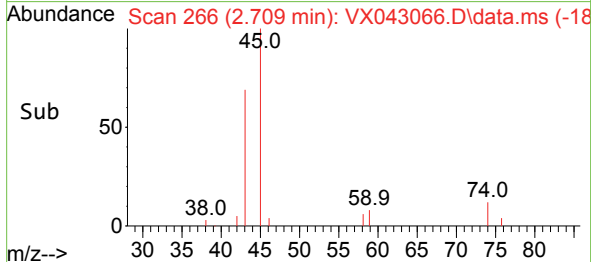
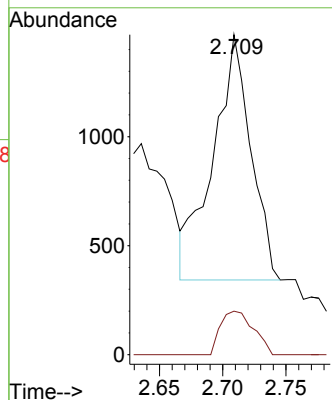
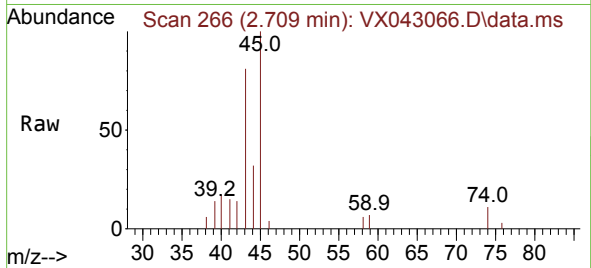




#12
Methyl Acetate
Concen: 0.994 ug/l
RT: 2.709 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

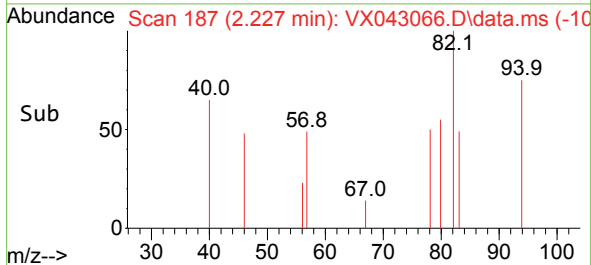
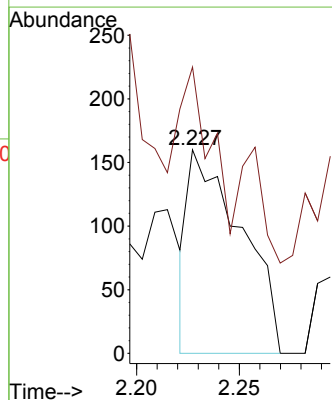
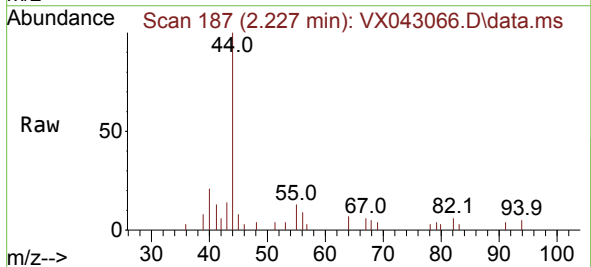
Instrument :
MSVOA_X
ClientSampleId :

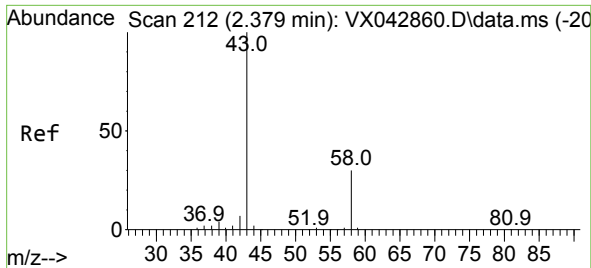
Tgt Ion: 43 Resp: 2348
Ion Ratio Lower Upper
43 100
74 19.7 19.4 29.2



#13
Acrolein
Concen: 0.739 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.012 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Tgt Ion: 56 Resp: 287
Ion Ratio Lower Upper
56 100
55 69.3 60.6 90.8

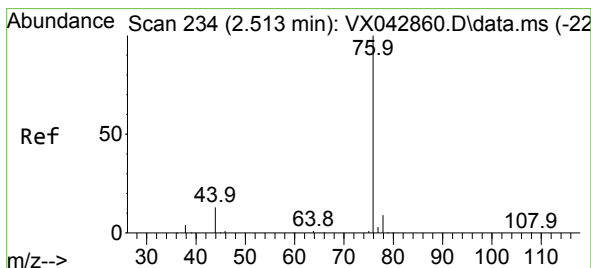
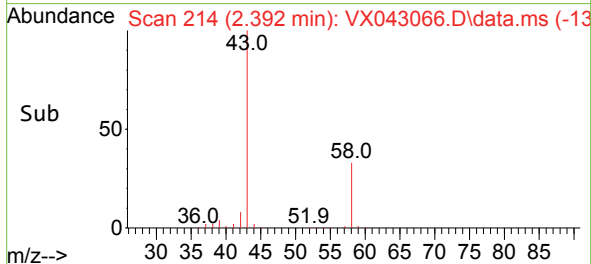
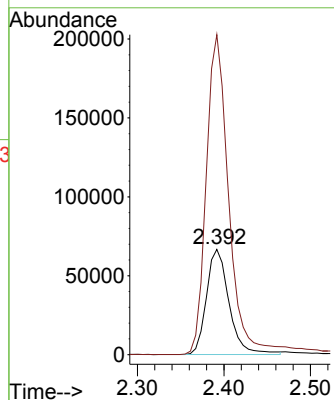
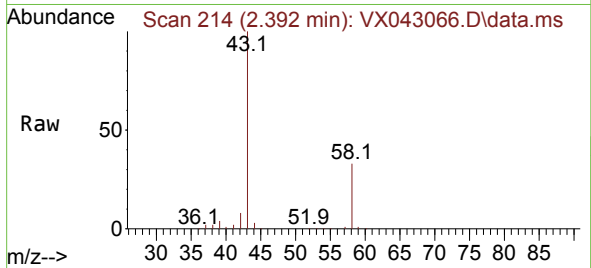




#15
Acetone
Concen: 483.621 ug/l
RT: 2.392 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

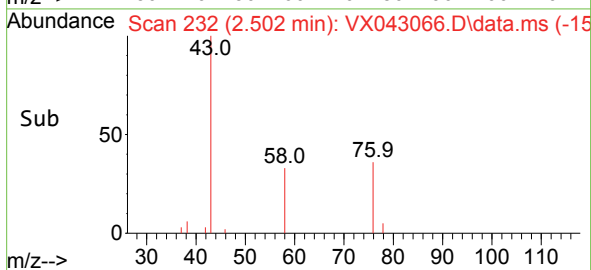
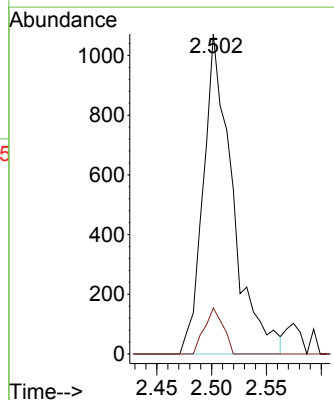
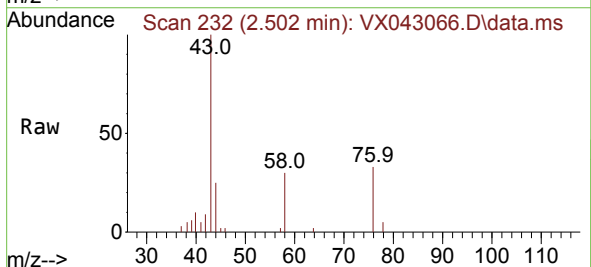
Instrument :
MSVOA_X
ClientSampleId :

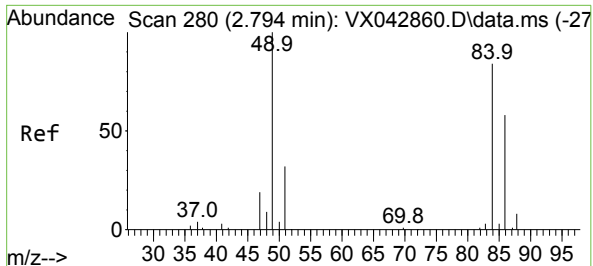
Tgt Ion: 58 Resp: 121022
Ion Ratio Lower Upper
58 100
43 304.1 269.9 404.9



#16
Carbon Disulfide
Concen: 0.515 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Tgt Ion: 76 Resp: 1990
Ion Ratio Lower Upper
76 100
78 14.4 7.1 10.7#





#18

Methylene Chloride

Concen: 0.876 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

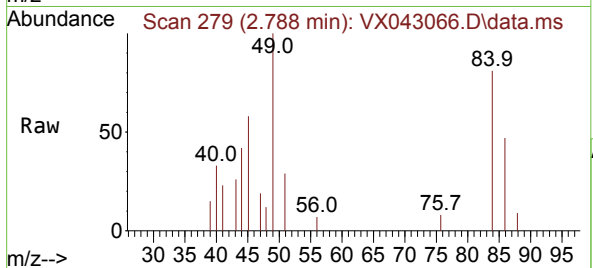
Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 1326

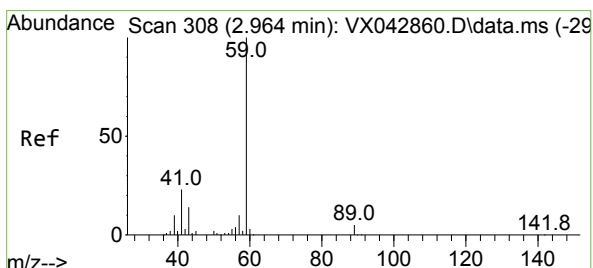
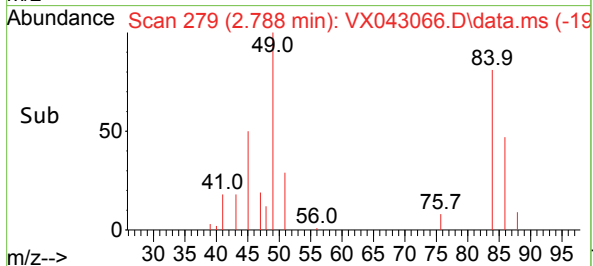
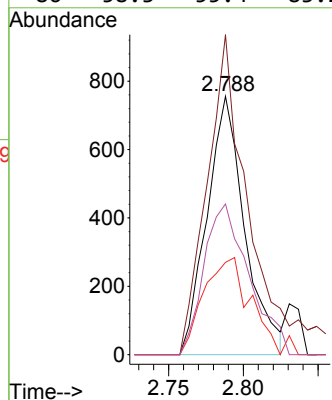
Ion Ratio Lower Upper

84 100

49 123.8 95.0 142.6

51 35.7 30.1 45.1

86 58.3 55.4 83.2



#23

tert-Butyl Alcohol

Concen: 0.545 ug/l

RT: 3.001 min Scan# 314

Delta R.T. 0.006 min

Lab File: VX043066.D

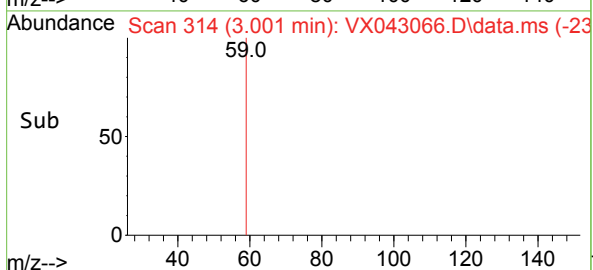
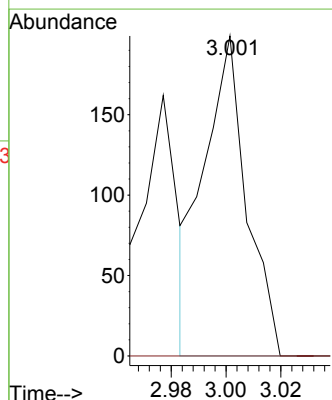
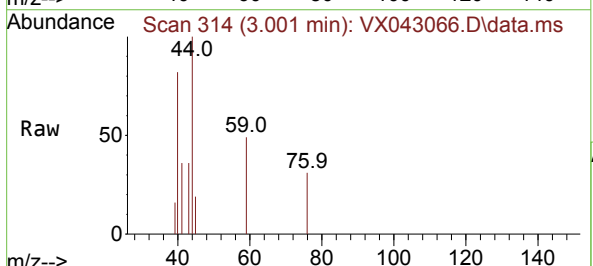
Acq: 16 Aug 2024 11:19

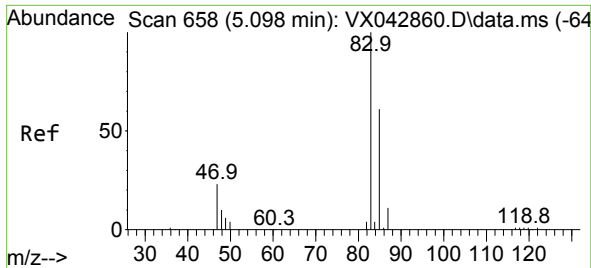
Tgt Ion: 59 Resp: 213

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#

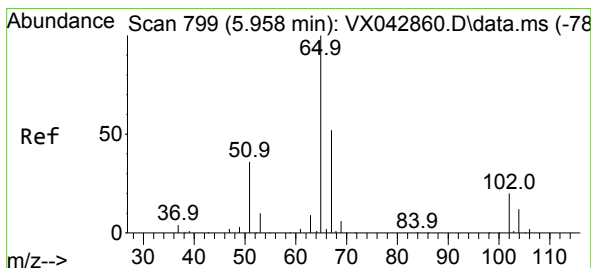
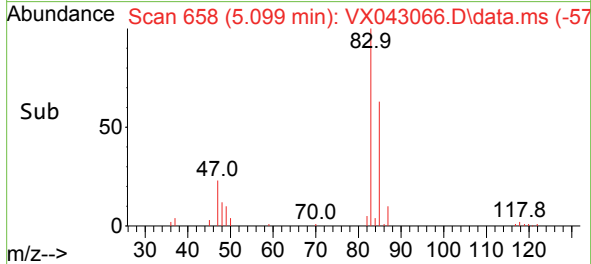
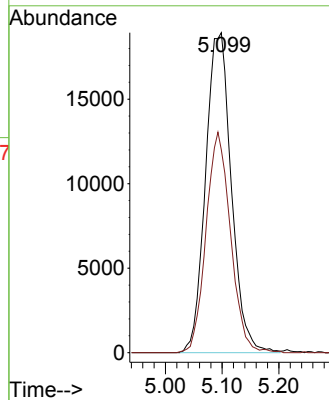
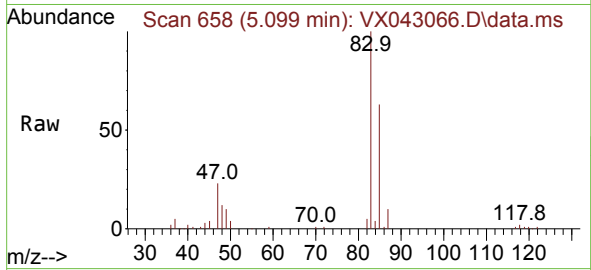




#25
Chloroform
Concen: 23.925 ug/l
RT: 5.099 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

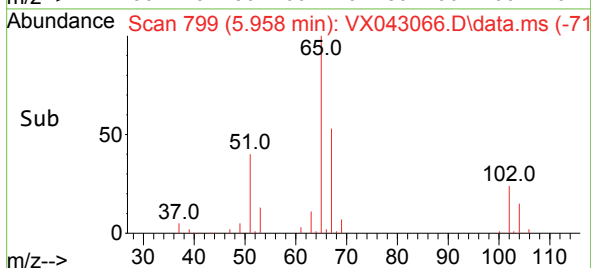
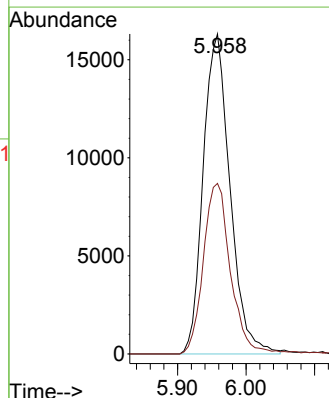
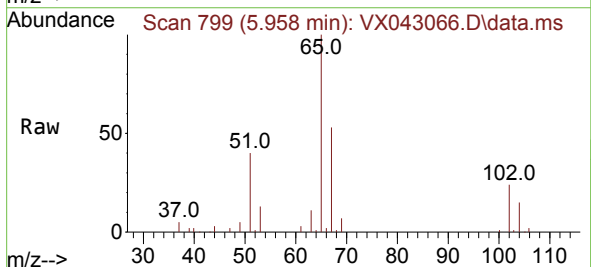
Instrument :
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ClientSampleId :

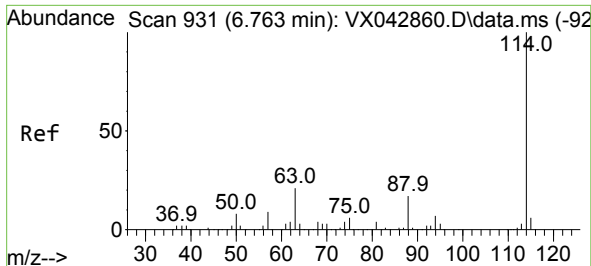
Tgt Ion: 83 Resp: 59774
Ion Ratio Lower Upper
83 100
85 63.1 49.2 73.8



#27
1,2-Dichloroethane-d4
Concen: 28.915 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Tgt Ion: 65 Resp: 44415
Ion Ratio Lower Upper
65 100
67 53.8 40.6 60.8

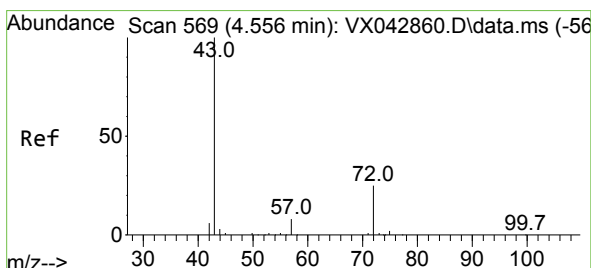
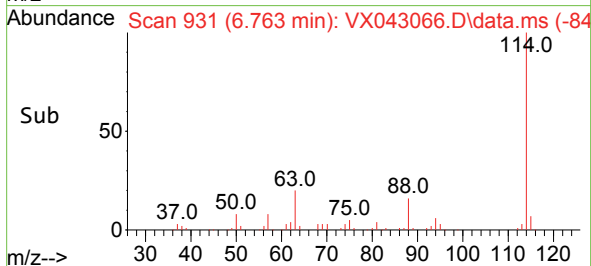
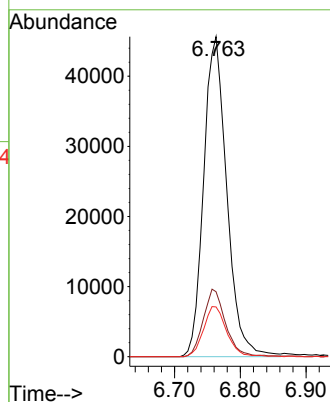
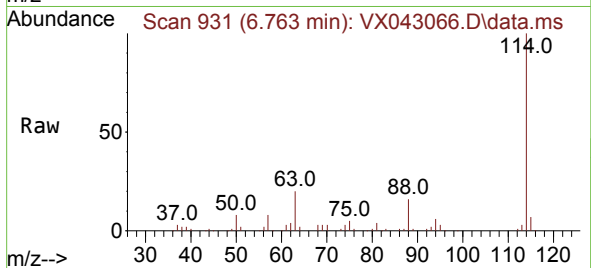




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.006 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

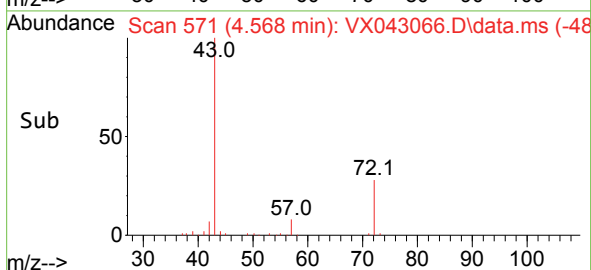
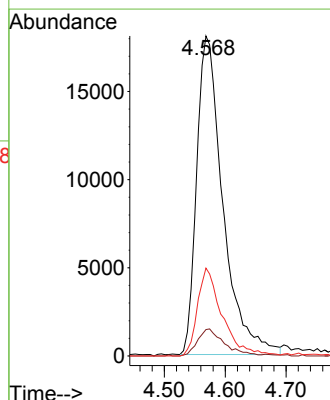
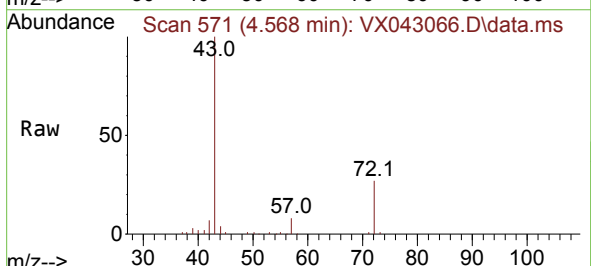
Instrument :
MSVOA_X
ClientSampleId :

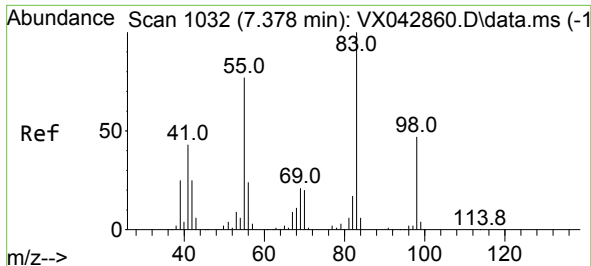
Tgt Ion:114 Resp: 111789
Ion Ratio Lower Upper
114 100
63 20.1 16.0 24.0
88 15.4 12.5 18.7



#30
2-Butanone
Concen: 44.000 ug/l
RT: 4.568 min Scan# 571
Delta R.T. -0.000 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Tgt Ion: 43 Resp: 54092
Ion Ratio Lower Upper
43 100
57 7.6 6.6 10.0
72 26.0 21.0 31.4





#38

Methylcyclohexane

Concen: 1.729 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. 0.451 min

Lab File: VX043066.D

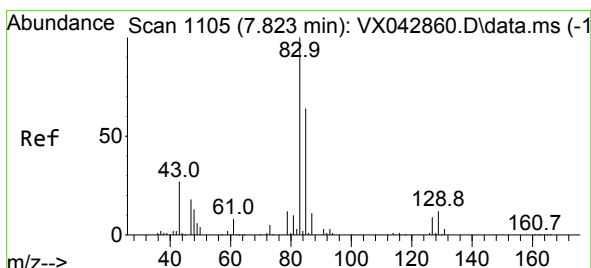
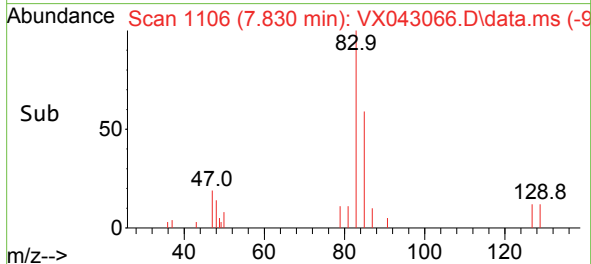
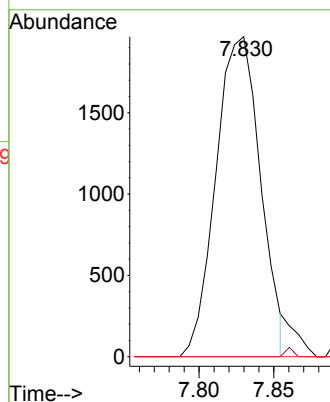
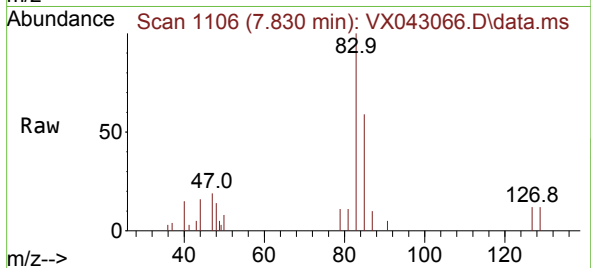
Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 83	Resp: 4073
Ion Ratio	Lower Upper
83 100	
55 0.0	38.0 113.9#
98 0.0	23.4 70.2#



#41

Bromodichloromethane

Concen: 2.225 ug/l

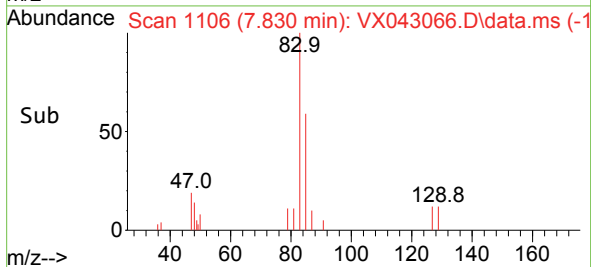
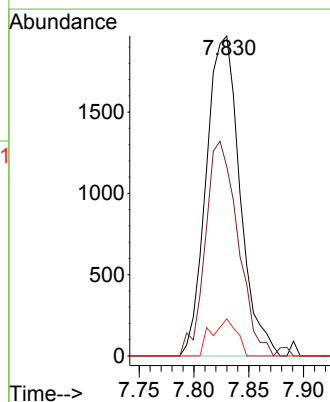
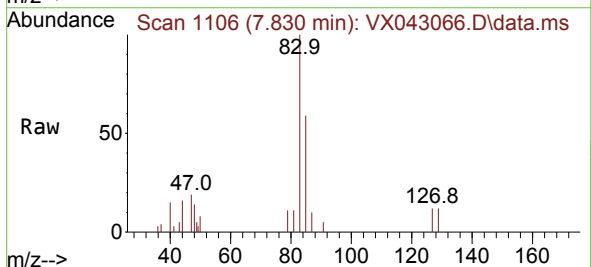
RT: 7.830 min Scan# 1106

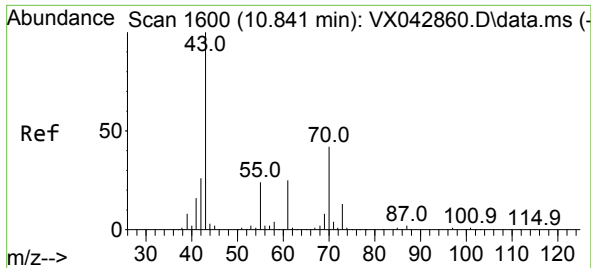
Delta R.T. 0.006 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Tgt Ion: 83	Resp: 4214
Ion Ratio	Lower Upper
83 100	
85 59.2	50.8 76.2
127 11.6	6.9 10.3#





#47

n-amy1 Acetate

Concen: 0.373 ug/l

RT: 10.854 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

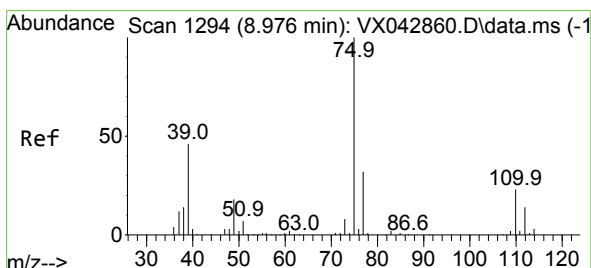
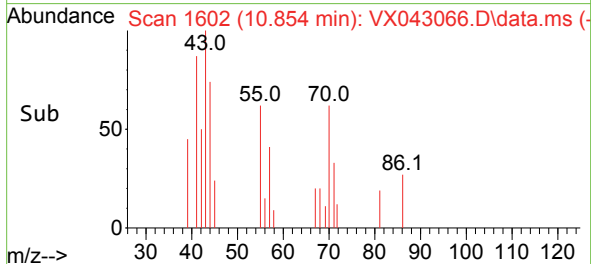
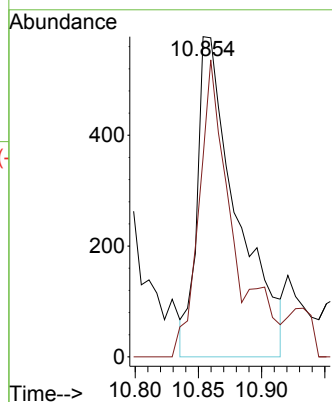
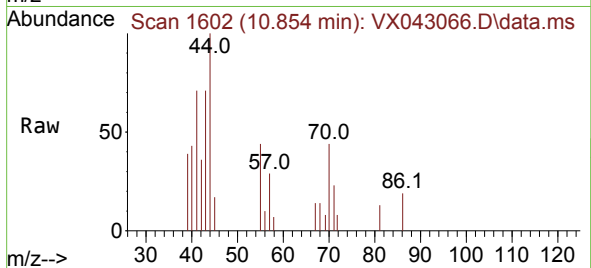
ClientSampleId :

Tgt Ion: 43 Resp: 1261

Ion Ratio Lower Upper

43 100

55 64.9 19.6 29.4#



#48

t-1,3-Dichloropropene

Concen: 2.092 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.268 min

Lab File: VX043066.D

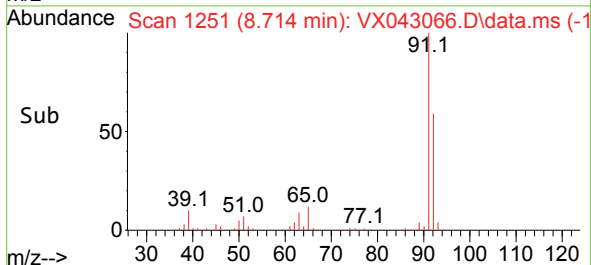
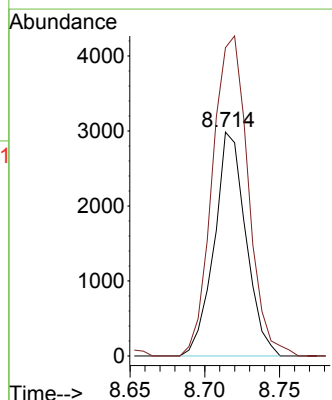
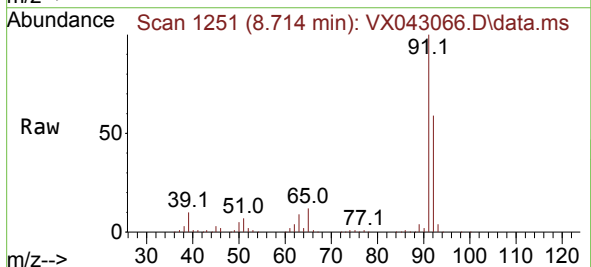
Acq: 16 Aug 2024 11:19

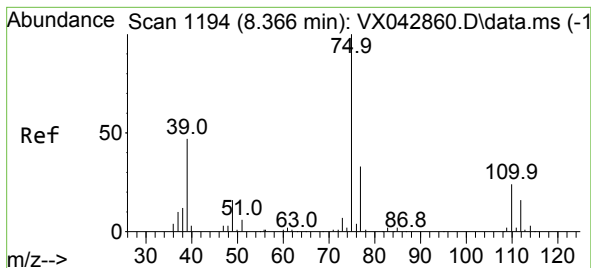
Tgt Ion: 75 Resp: 4397

Ion Ratio Lower Upper

75 100

77 137.8 25.6 38.4#





#49

cis-1,3-Dichloropropene

Concen: 1.917 ug/l

RT: 8.714 min Scan# 1

Delta R.T. 0.347 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

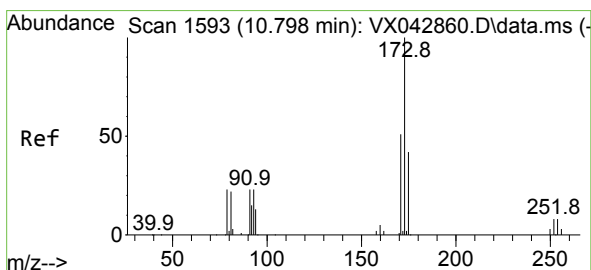
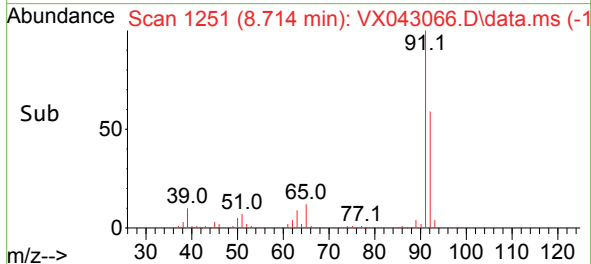
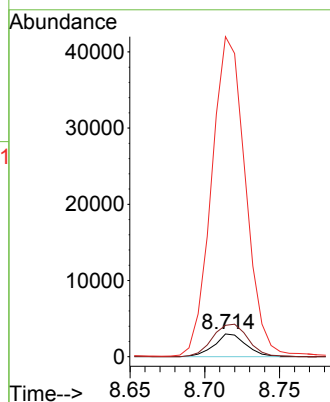
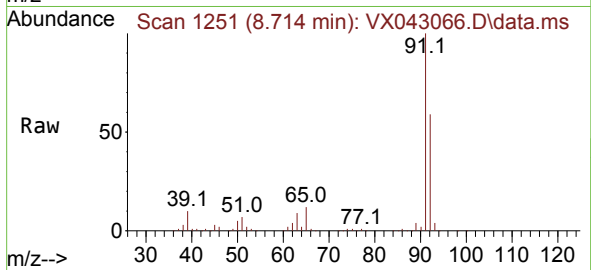
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 75 Resp: 4397

Ion	Ratio	Lower	Upper
75	100		
77	137.8	26.8	40.2#
39	1400.6	37.5	56.3#



#56

Bromoform

Concen: 0.334 ug/l

RT: 11.079 min Scan# 1639

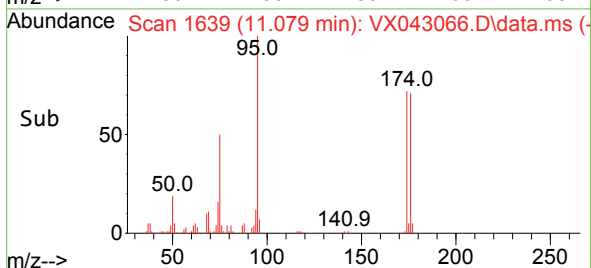
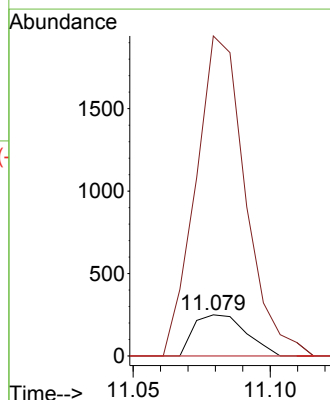
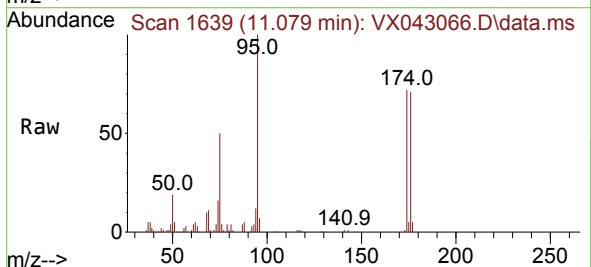
Delta R.T. 0.280 min

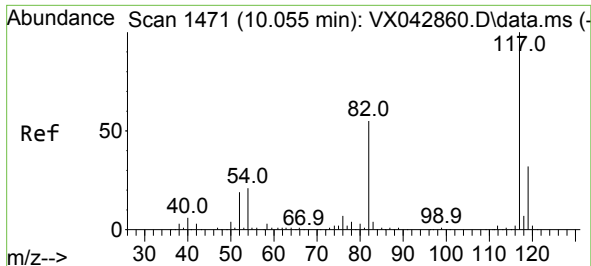
Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Tgt Ion: 173 Resp: 331

Ion	Ratio	Lower	Upper
173	100		
175	740.8	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

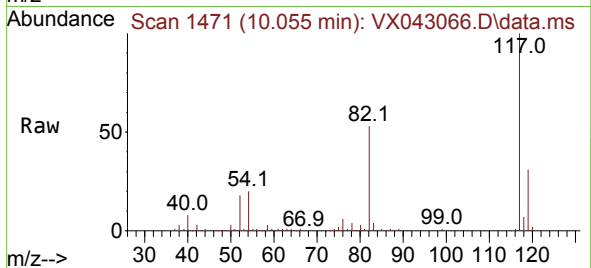
Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

ClientSampleId :



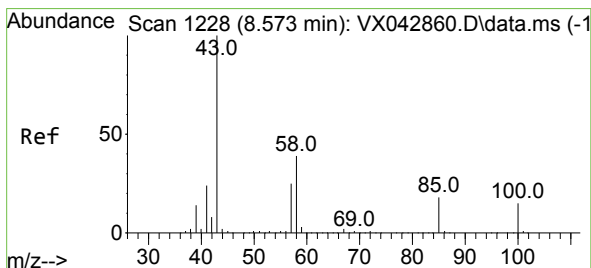
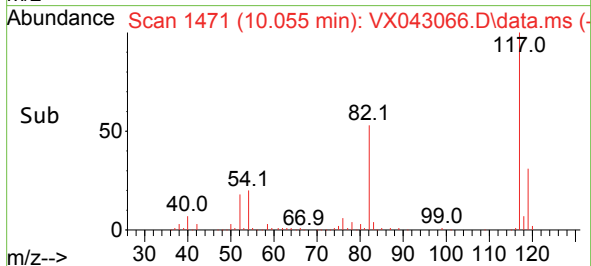
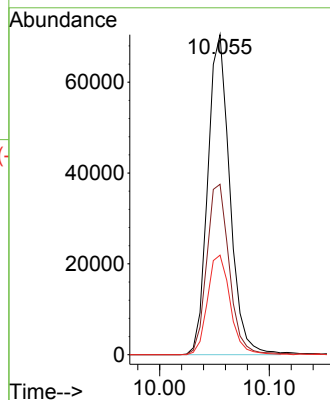
Tgt Ion:117 Resp: 98358

Ion Ratio Lower Upper

117 100

82 54.6 44.9 67.3

119 32.2 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 2.036 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

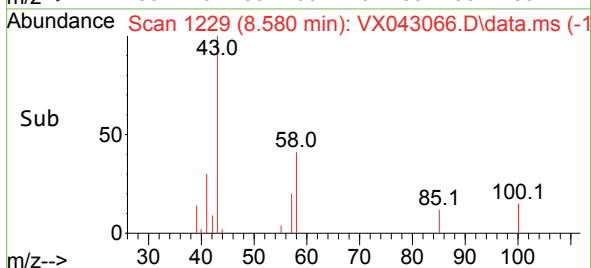
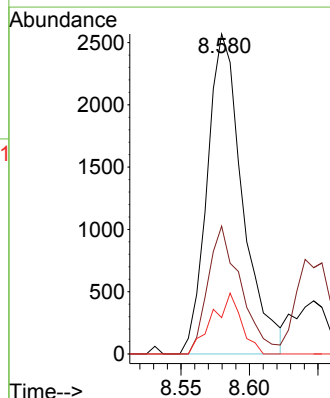
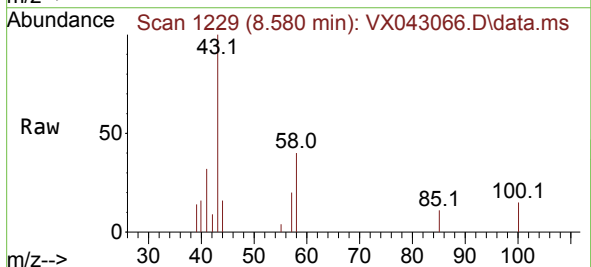
Tgt Ion: 43 Resp: 4630

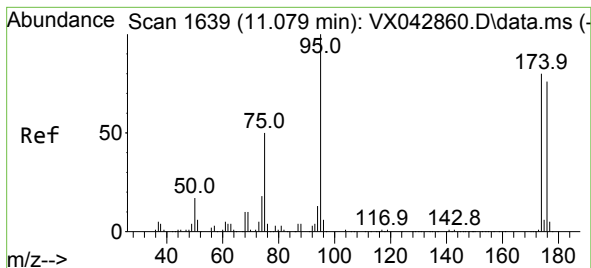
Ion Ratio Lower Upper

43 100

58 37.3 31.4 47.0

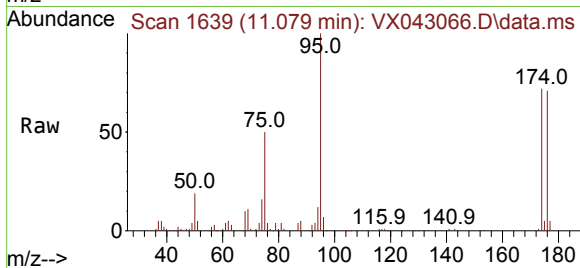
85 15.5 14.6 21.8



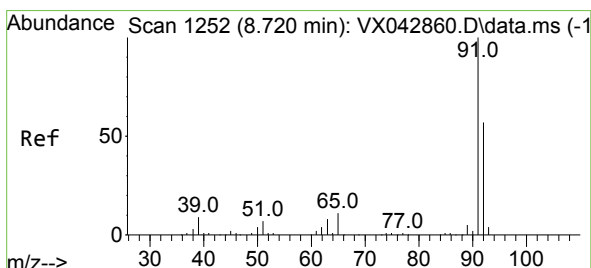
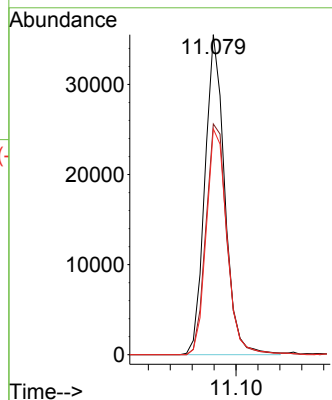
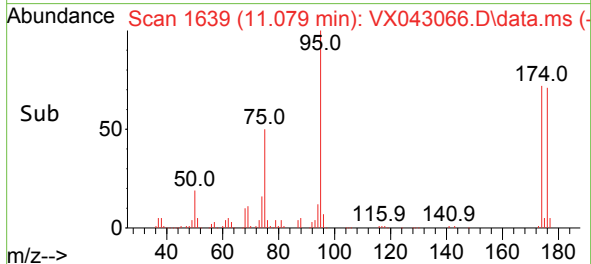


#60
4-Bromofluorobenzene
Concen: 26.692 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Instrument :
MSVOA_X
ClientSampleId :

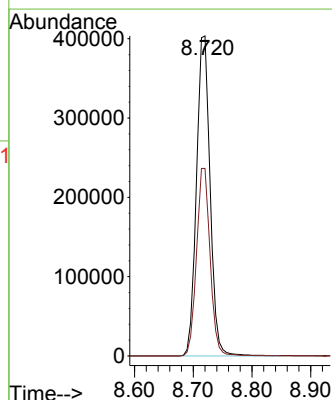
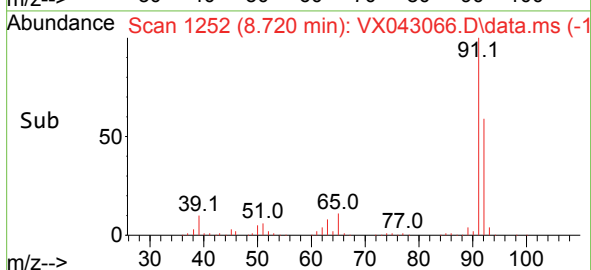
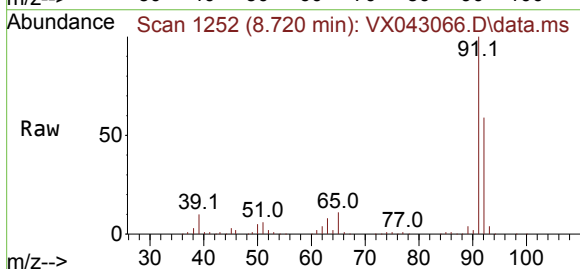


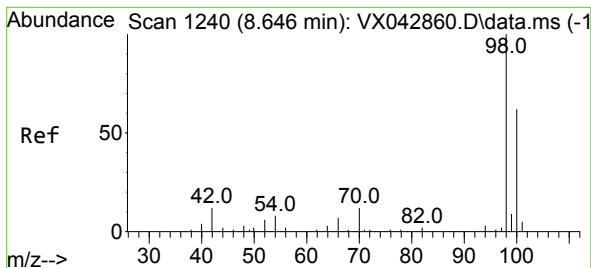
Tgt Ion: 95 Resp: 44569
Ion Ratio Lower Upper
95 100
174 76.5 65.0 97.6
176 74.1 63.4 95.0



#62
Toluene
Concen: 115.666 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Tgt Ion: 91 Resp: 649872
Ion Ratio Lower Upper
91 100
92 58.6 45.7 68.5





#63

Toluene-d8

Concen: 29.809 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

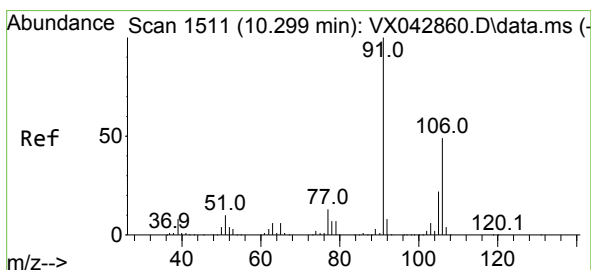
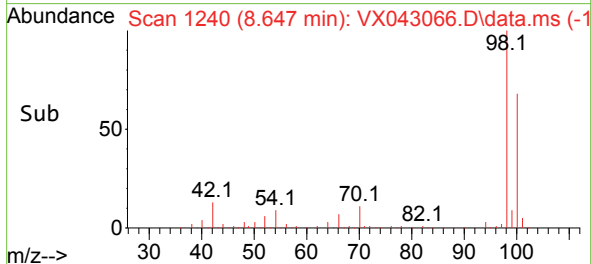
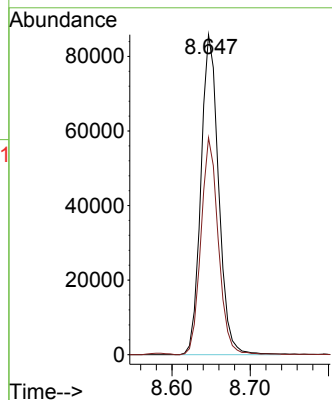
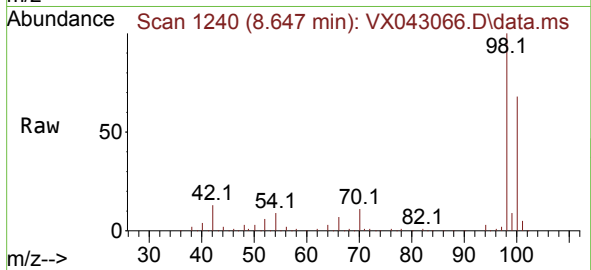
ClientSampleId :

Tgt Ion: 98 Resp: 134686

Ion Ratio Lower Upper

98 100

100 66.6 50.9 76.3



#67

m/p-Xylenes

Concen: 0.211 ug/l

RT: 10.311 min Scan# 1513

Delta R.T. 0.012 min

Lab File: VX043066.D

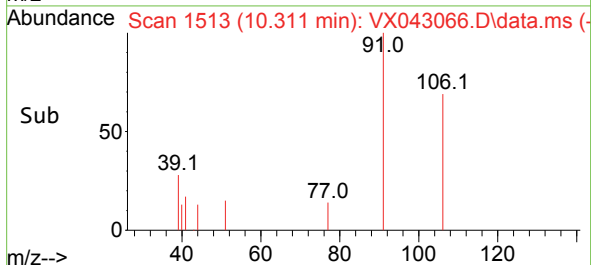
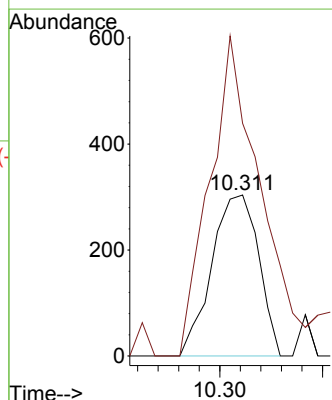
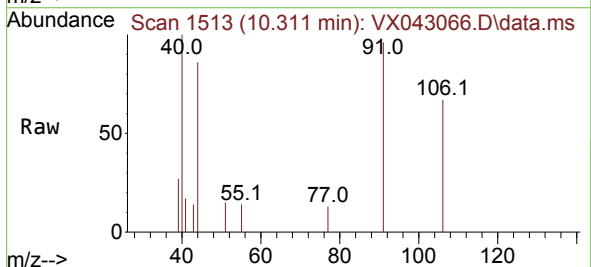
Acq: 16 Aug 2024 11:19

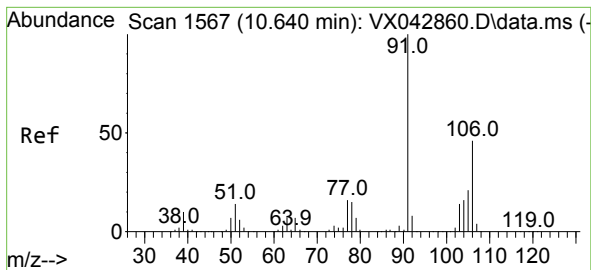
Tgt Ion:106 Resp: 482

Ion Ratio Lower Upper

106 100

91 213.7 165.3 247.9





#68

o-Xylene

Concen: 0.209 ug/l

RT: 10.311 min Scan# 11

Delta R.T. -0.329 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

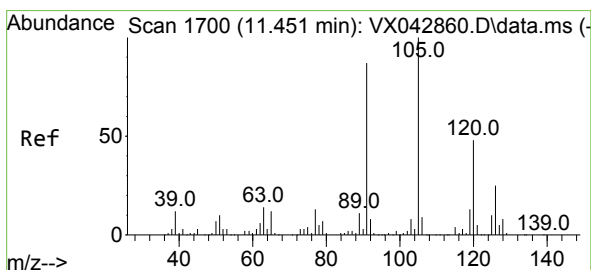
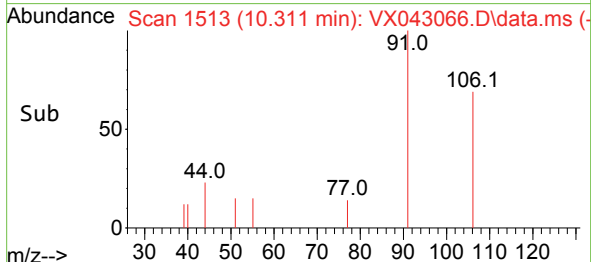
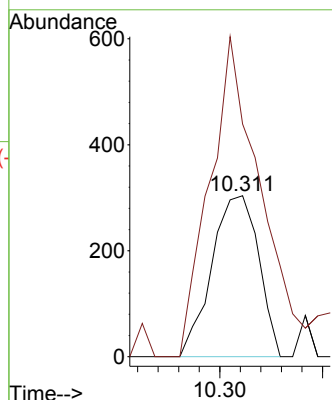
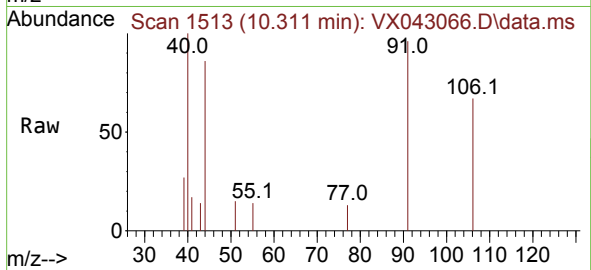
ClientSampleId :

Tgt Ion:106 Resp: 482

Ion Ratio Lower Upper

106 100

91 213.7 107.5 322.4



#76

1,3,5-Trimethylbenzene

Concen: 0.345 ug/l

RT: 11.768 min Scan# 1752

Delta R.T. 0.317 min

Lab File: VX043066.D

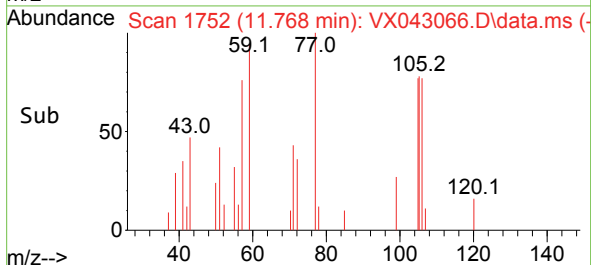
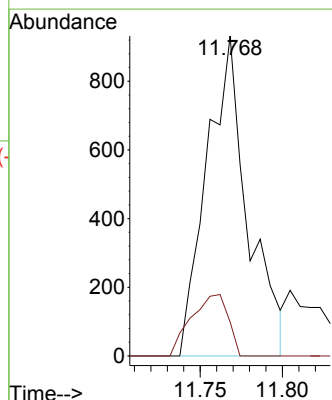
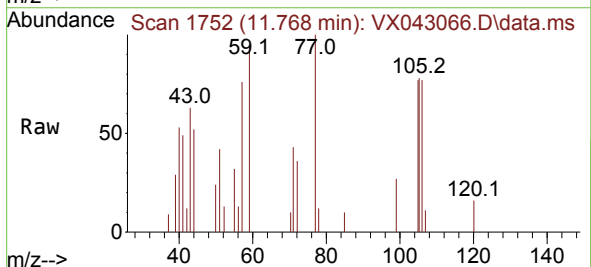
Acq: 16 Aug 2024 11:19

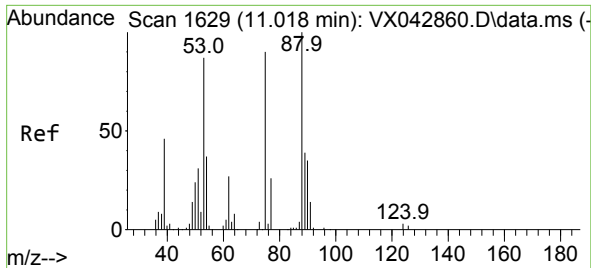
Tgt Ion:105 Resp: 1612

Ion Ratio Lower Upper

105 100

120 17.3 0.0 94.8

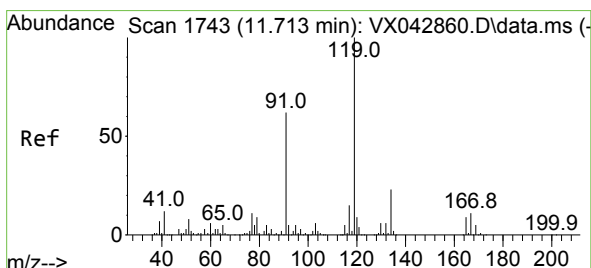
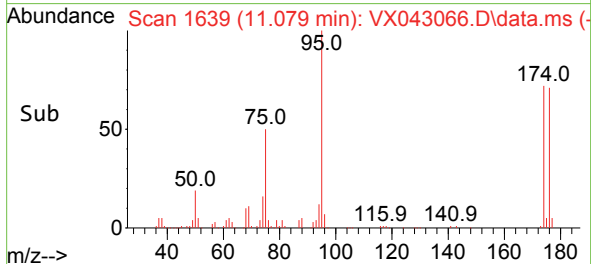
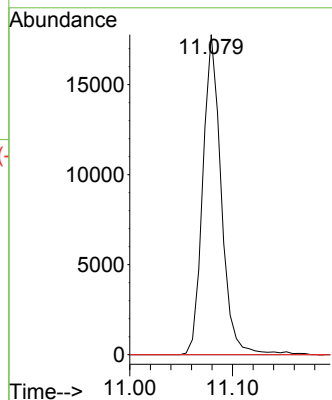
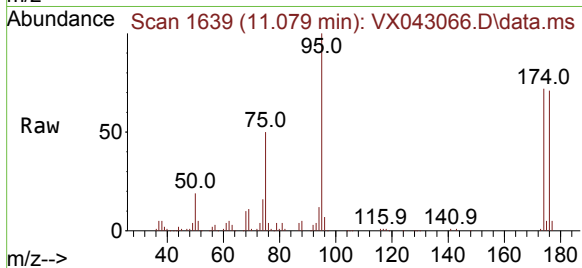




#77
 t-1,4-Dichloro-2-butene
 Concen: 26.055 ug/l
 RT: 11.079 min Scan# 1790
 Delta R.T. 0.061 min
 Lab File: VX043066.D
 Acq: 16 Aug 2024 11:19

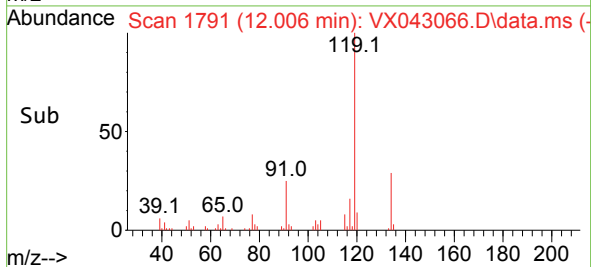
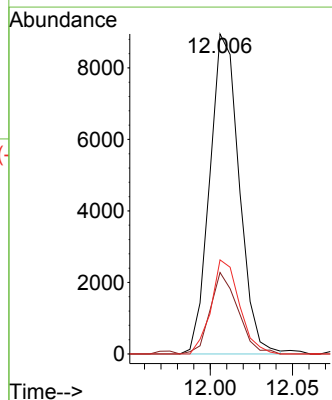
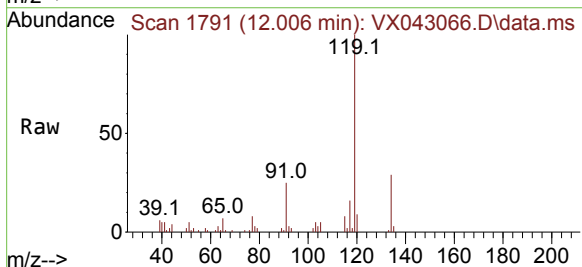
Instrument :
 MSVOA_X
 ClientSampleId :

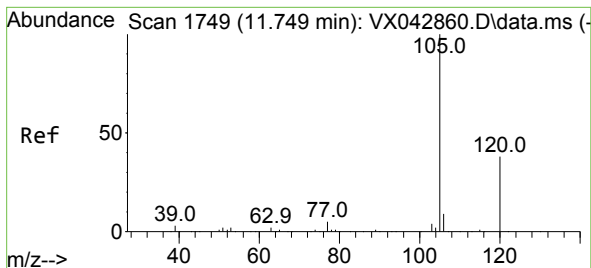
Tgt Ion: 75 Resp: 22099
 Ion Ratio Lower Upper
 75 100
 53 0.0 48.5 145.5#
 89 0.0 21.9 65.5#



#79
 tert-butylbenzene
 Concen: 2.338 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.293 min
 Lab File: VX043066.D
 Acq: 16 Aug 2024 11:19

Tgt Ion: 119 Resp: 11129
 Ion Ratio Lower Upper
 119 100
 91 23.9 0.0 118.6
 134 28.3 0.0 44.4





#80

1,2,4-Trimethylbenzene

Concen: 0.338 ug/l

RT: 11.768 min Scan# 1752

Delta R.T. 0.018 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

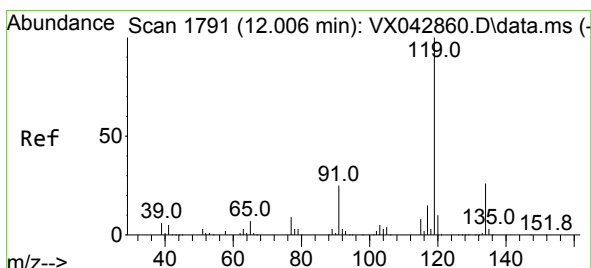
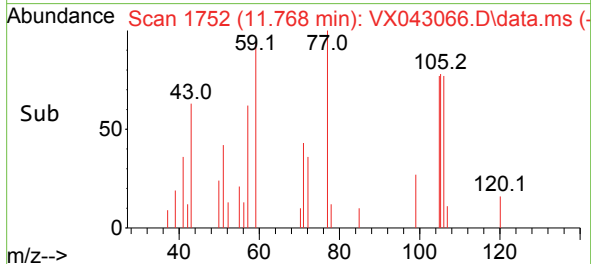
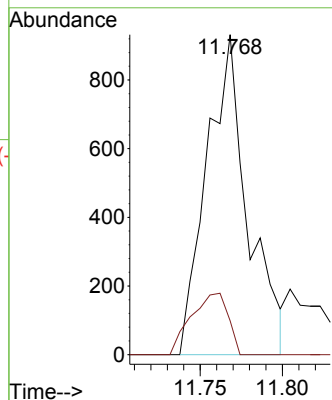
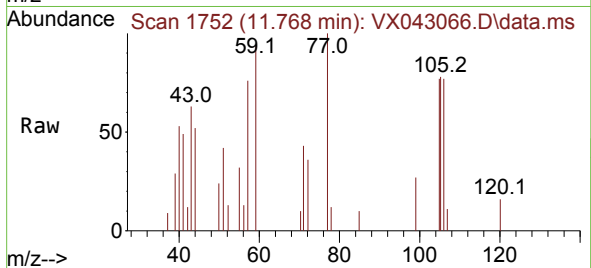
ClientSampleId :

Tgt Ion:105 Resp: 1612

Ion Ratio Lower Upper

105 100

120 17.3 0.0 87.8



#82

p-Isopropyltoluene

Concen: 2.287 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

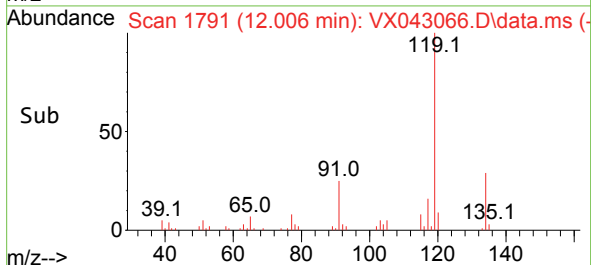
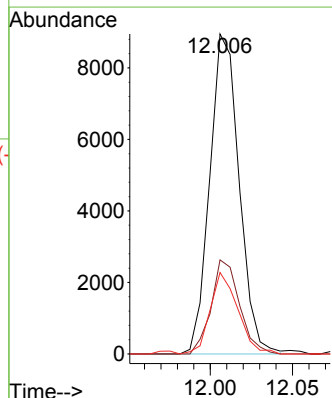
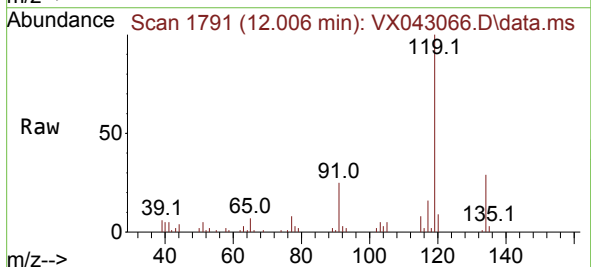
Tgt Ion:119 Resp: 11129

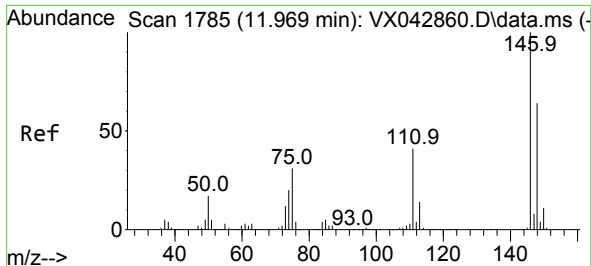
Ion Ratio Lower Upper

119 100

134 28.3 0.0 51.8

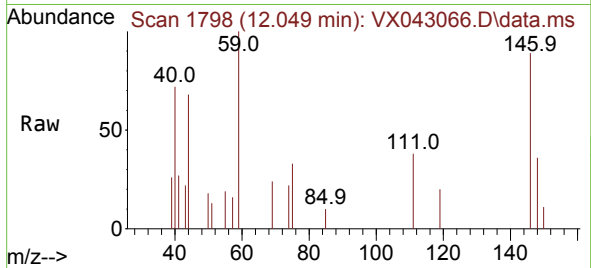
91 23.9 0.0 48.4



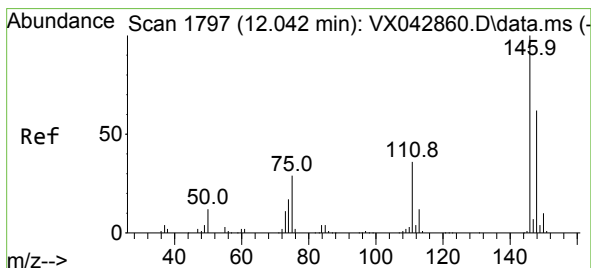
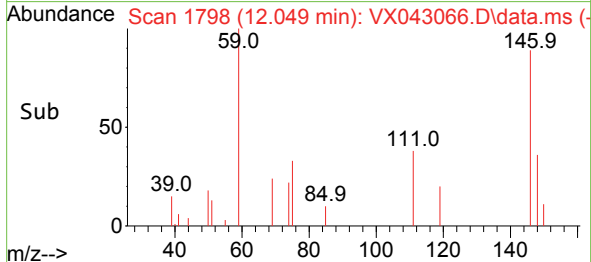
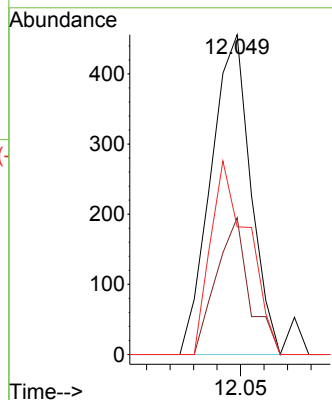


#83
1,3-Dichlorobenzene
Concen: 0.221 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.079 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Instrument :
MSVOA_X
ClientSampleId :

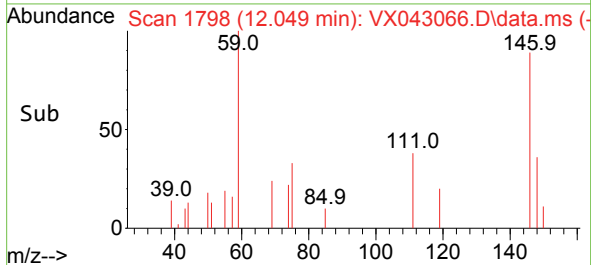
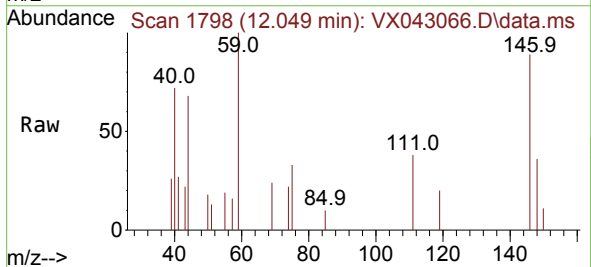
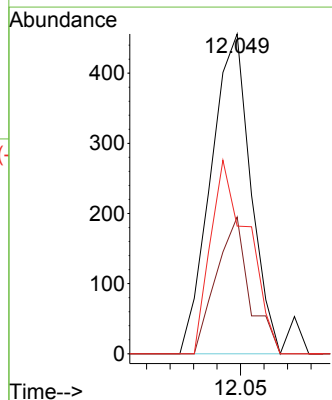


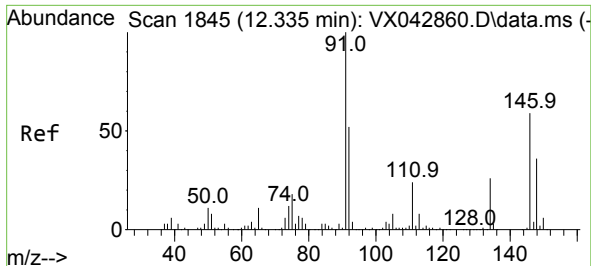
Tgt Ion:146 Resp: 537
Ion Ratio Lower Upper
146 100
111 35.6 20.3 61.0
148 57.4 31.7 95.1



#84
1,4-Dichlorobenzene
Concen: 0.221 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.006 min
Lab File: VX043066.D
Acq: 16 Aug 2024 11:19

Tgt Ion:146 Resp: 537
Ion Ratio Lower Upper
146 100
111 35.6 19.4 58.4
148 57.4 31.4 94.2





#87

1,2-Dichlorobenzene

Concen: 0.223 ug/l

RT: 12.049 min Scan# 11

Delta R.T. -0.287 min

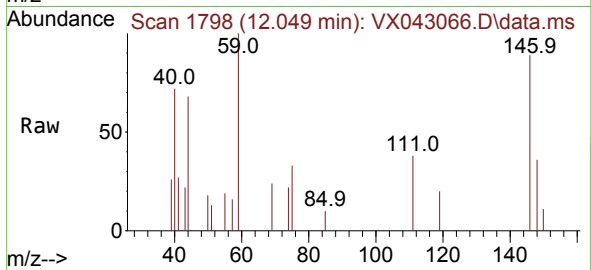
Lab File: VX043066.D

Acq: 16 Aug 2024 11:19

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:146 Resp: 537

Ion Ratio Lower Upper

146 100

111 35.6 21.0 63.0

148 57.4 30.8 92.4

