

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072023\
 Data File : VY014721.D
 Acq On : 20 Jul 2023 15:17
 Operator : SY/MD
 Sample : 03664-02
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 AUD-1023

Quant Time: Jul 21 01:30:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

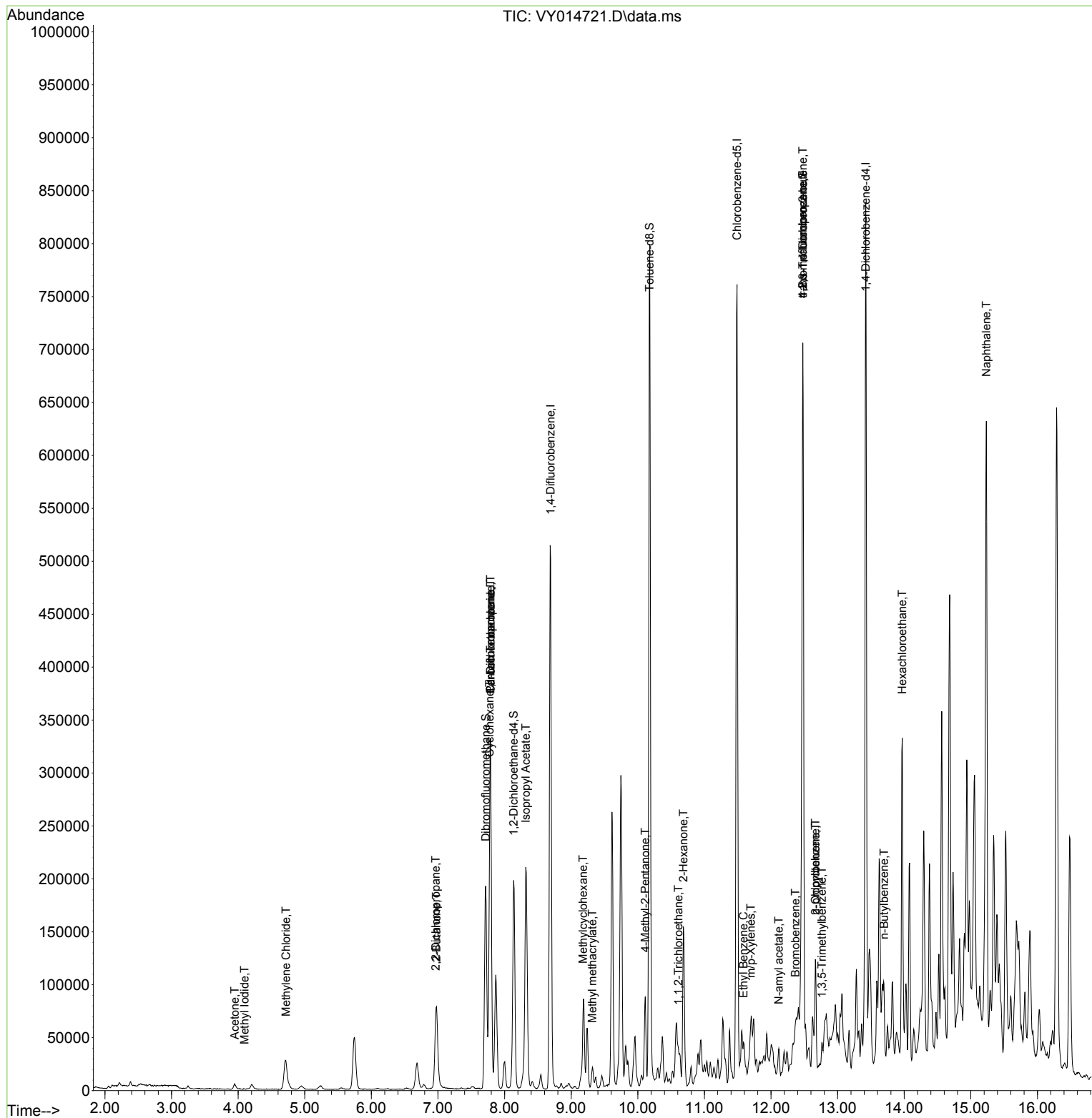
Internal Standards						
1) Pentafluorobenzene	7.789	168	252330	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	427741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	400186	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	196115	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	153584	53.413	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.820%			
35) Dibromofluoromethane	7.716	113	136340	50.072	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.140%			
50) Toluene-d8	10.179	98	511362	50.939	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.880%			
62) 4-Bromofluorobenzene	12.477	95	197579	51.329	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.660%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.095	142	219	2.444	ug/l #	77
11) Tert butyl alcohol	4.948	59	6485	Below Cal	#	71
16) Acetone	3.948	43	8188	8.986	ug/l	98
20) Methylene Chloride	4.716	84	19590	2.616	ug/l #	85
25) 2-Butanone	6.978	43	4613	3.460	ug/l #	88
26) 2,2-Dichloropropane	6.966	77	6112	1.250	ug/l #	54
31) Cyclohexane	7.777	56	9394	1.968	ug/l #	22
36) 1,1-Dichloropropene	7.789	75	19563	4.804	ug/l #	51
38) Carbon Tetrachloride	7.789	117	24666	5.730	ug/l #	16
39) Methylcyclohexane	9.179	83	9394	1.771	ug/l #	71
43) Isopropyl Acetate	8.319	43	43039	8.059	ug/l #	55
48) Methyl methacrylate	9.319	41	5124	2.132	ug/l #	33
51) 4-Methyl-2-Pentanone	10.112	43	10409	3.712	ug/l #	86
55) 1,1,2-Trichloroethane	10.612	97	6752	2.642	ug/l #	20
59) 2-Hexanone	10.685	43	97135	47.502	ug/l	79
67) Ethyl Benzene	11.587	91	15929	1.035	ug/l	100
68) m/p-Xylenes	11.697	106	13069	2.224	ug/l	99
74) N-amyl acetate	12.118	43	6732	1.309	ug/l #	61
76) 1,2,3-Trichloropropane	12.477	75	104158	42.052	ug/l #	100
77) Bromobenzene	12.367	156	9260	2.642	ug/l #	1
78) n-propylbenzene	12.666	91	71989	3.890	ug/l	99
79) 2-Chlorotoluene	12.666	91	71989	6.754	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.764	105	18152	1.415	ug/l	78
81) trans-1,4-Dichloro-2-b...	12.477	75	104158	81.420	ug/l #	11
89) n-Butylbenzene	13.696	91	40840	3.081	ug/l #	84
90) Hexachloroethane	13.971	117	14006	5.005	ug/l #	8
95) Naphthalene	15.233	128	425233	46.002	ug/l	99

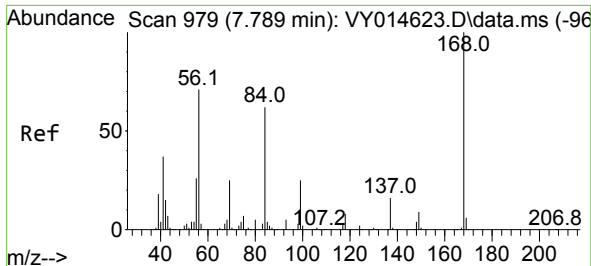
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

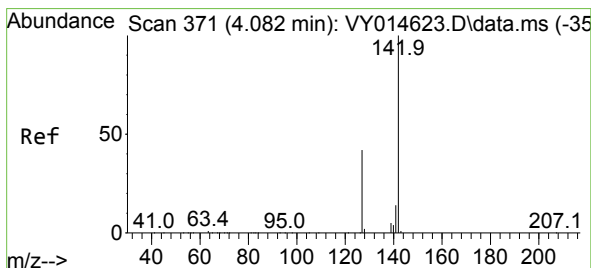
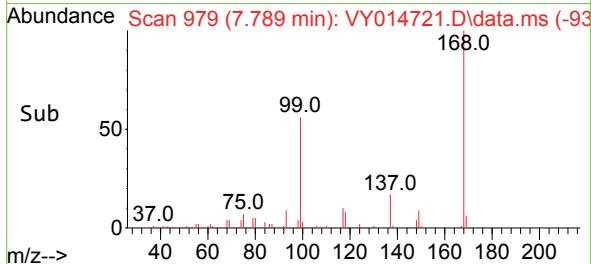
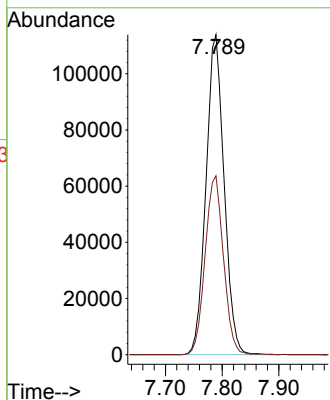
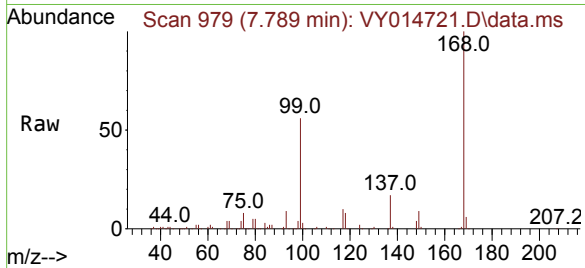




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

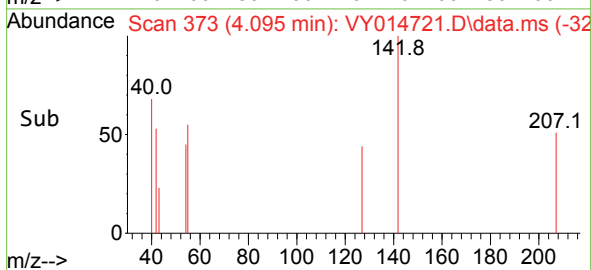
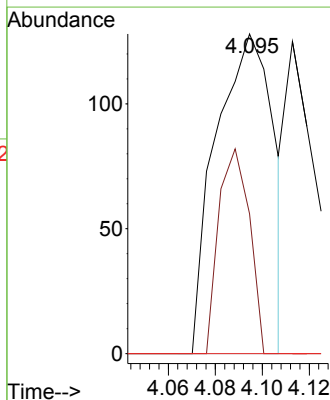
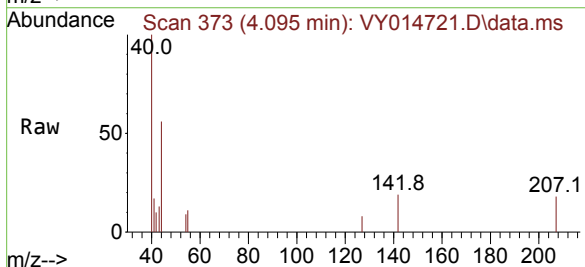
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

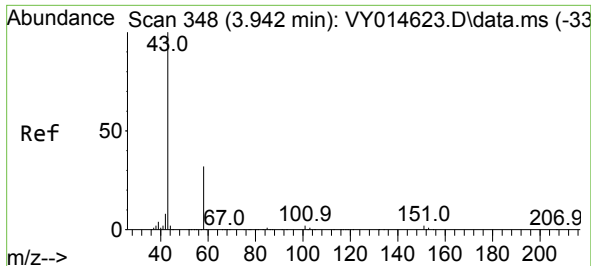
Tgt Ion:168 Resp: 252330
Ion Ratio Lower Upper
168 100
99 55.9 43.4 65.0



#10
Methyl Iodide
Concen: 2.444 ug/l
RT: 4.095 min Scan# 373
Delta R.T. 0.013 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion:142 Resp: 219
Ion Ratio Lower Upper
142 100
127 34.2 37.6 56.4#
141 0.0 11.8 17.8#

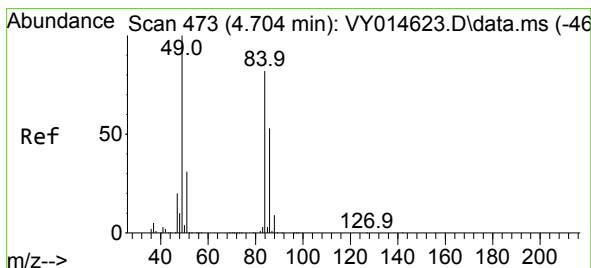
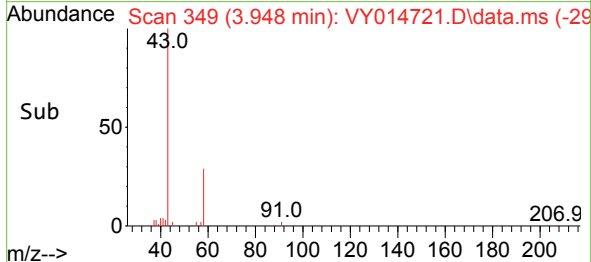
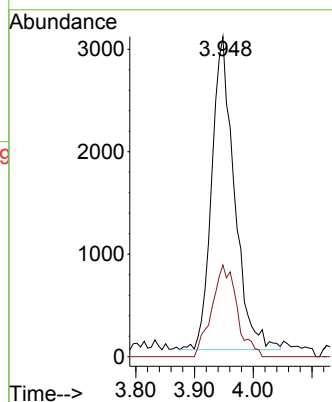
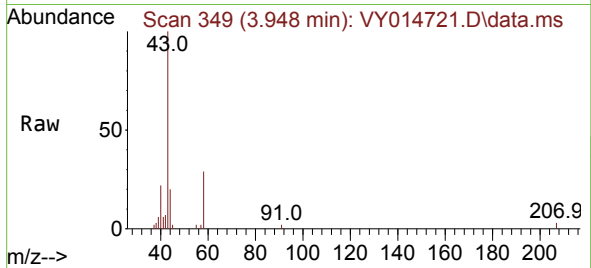




#16
Acetone
Concen: 8.986 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

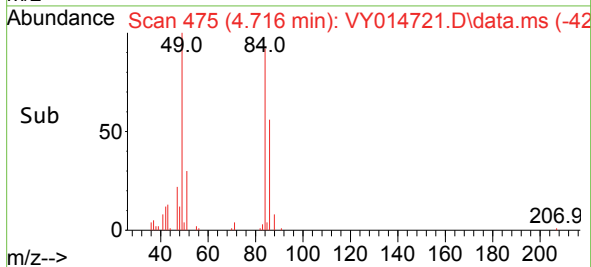
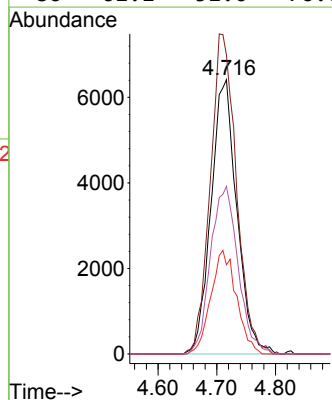
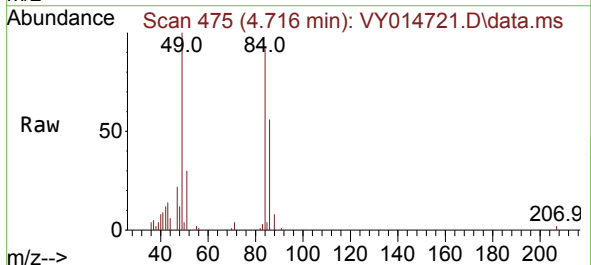
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

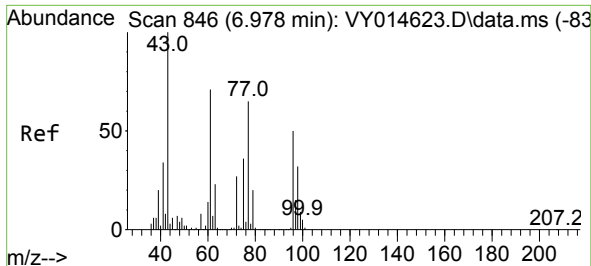
Tgt Ion: 43 Resp: 8188
Ion Ratio Lower Upper
43 100
58 29.3 22.7 34.1



#20
Methylene Chloride
Concen: 2.616 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 84 Resp: 19590
Ion Ratio Lower Upper
84 100
49 109.0 106.9 160.3
51 32.5 33.2 49.8#
86 61.1 51.0 76.6

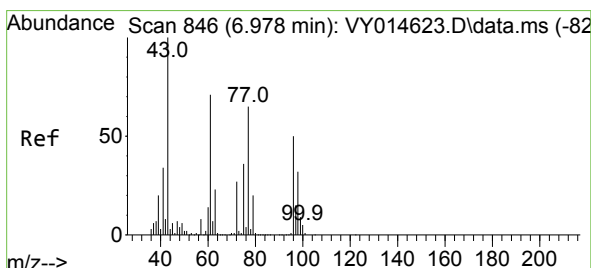
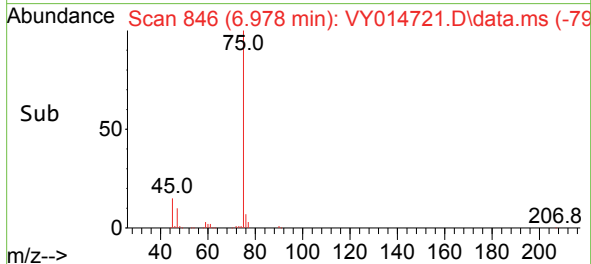
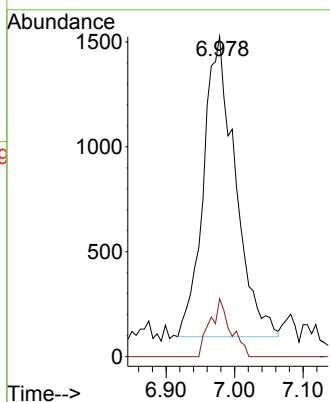
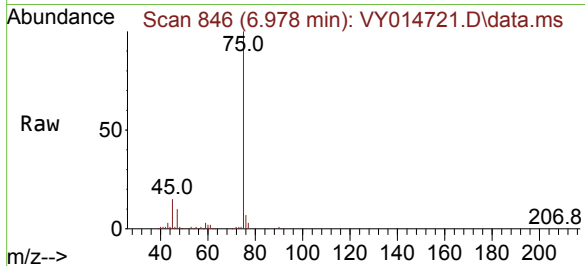




#25
2-Butanone
Concen: 3.460 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

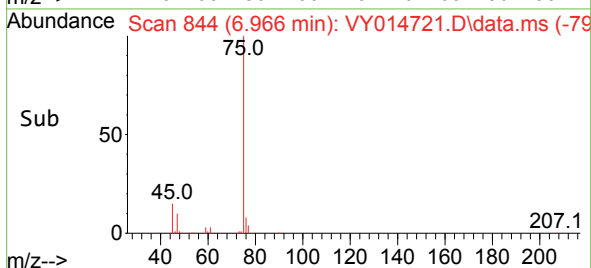
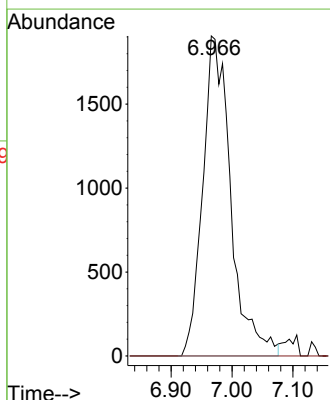
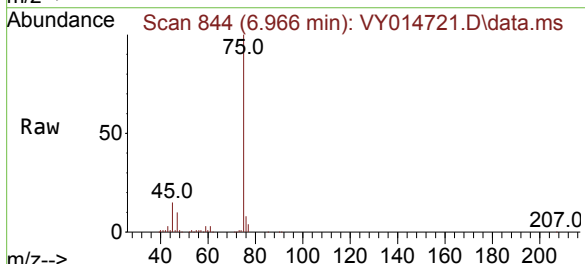
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

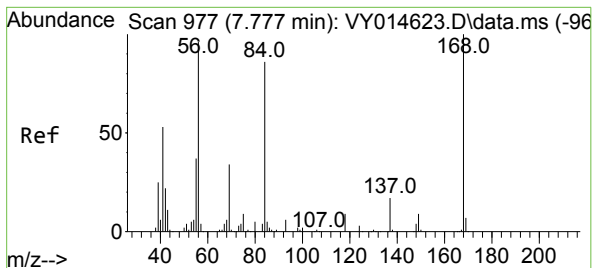
Tgt Ion: 43 Resp: 4613
Ion Ratio Lower Upper
43 100
72 19.3 20.5 30.7#



#26
2,2-Dichloropropane
Concen: 1.250 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.012 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 77 Resp: 6112
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#





#31

Cyclohexane

Concen: 1.968 ug/l

RT: 7.777 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY014721.D

Acq: 20 Jul 2023 15:17

Instrument :

MSVOA_Y

ClientSampleId :

AUD-1023

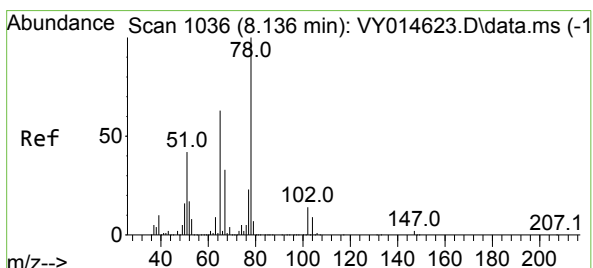
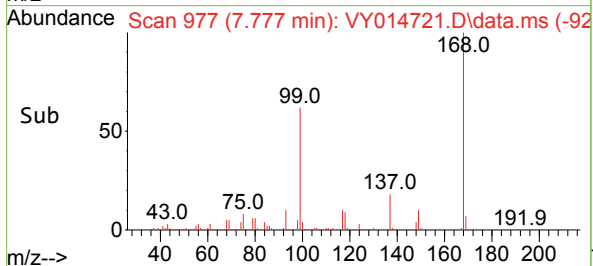
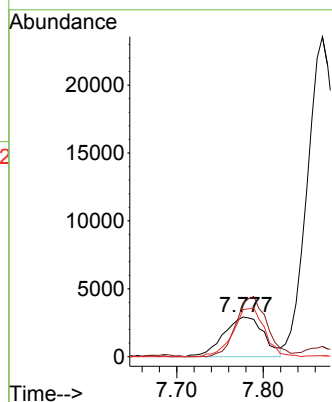
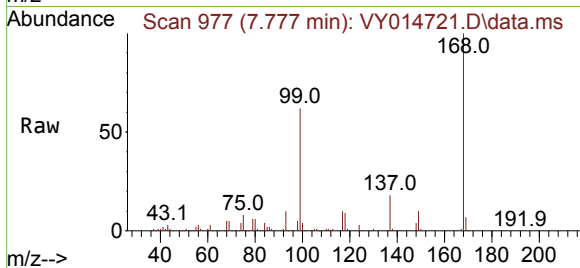
Tgt Ion: 56 Resp: 9394

Ion Ratio Lower Upper

56 100

69 132.9 27.8 41.6#

84 118.7 66.4 99.6#



#33

1,2-Dichloroethane-d4

Concen: 53.413 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.001 min

Lab File: VY014721.D

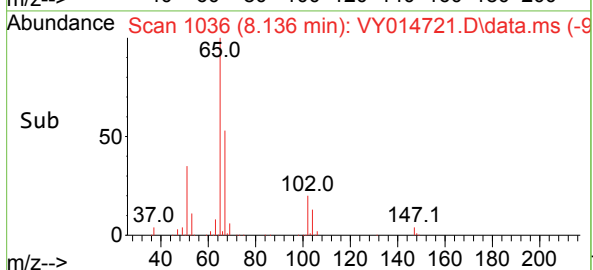
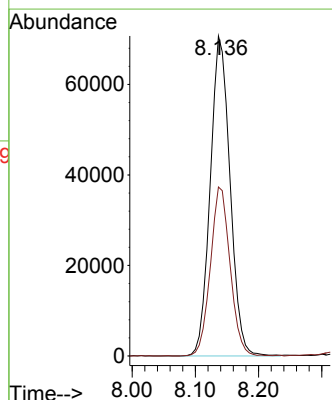
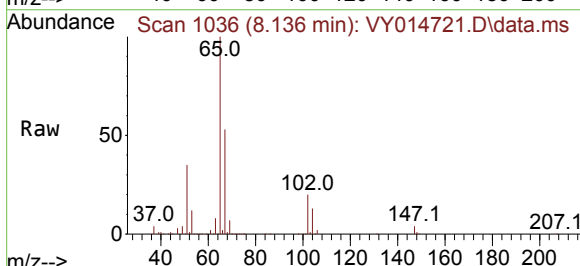
Acq: 20 Jul 2023 15:17

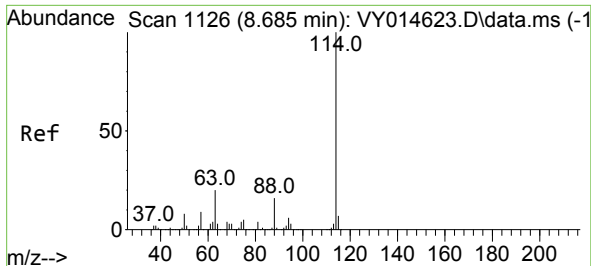
Tgt Ion: 65 Resp: 153584

Ion Ratio Lower Upper

65 100

67 52.6 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY014721.D

Acq: 20 Jul 2023 15:17

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MSVOA_Y

ClientSampleId :

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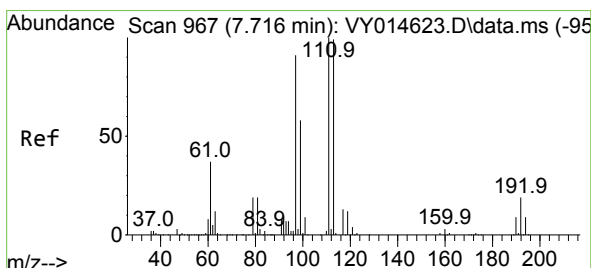
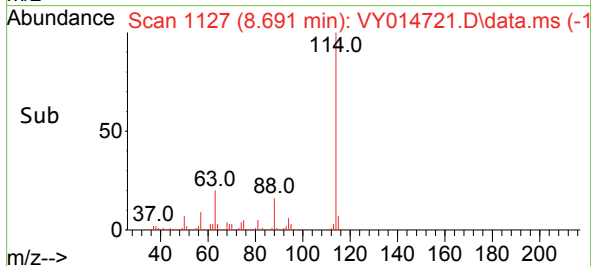
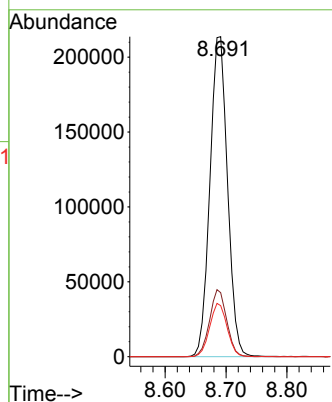
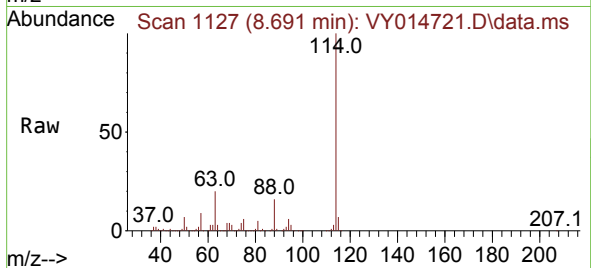
Tgt Ion:114 Resp: 427741

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

88 15.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.072 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY014721.D

Acq: 20 Jul 2023 15:17

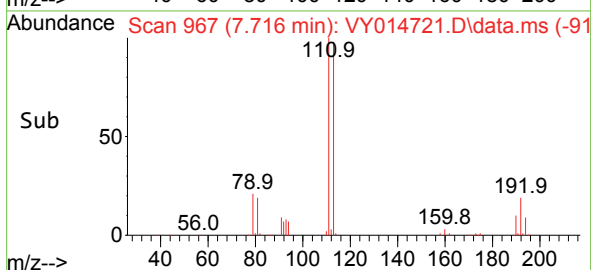
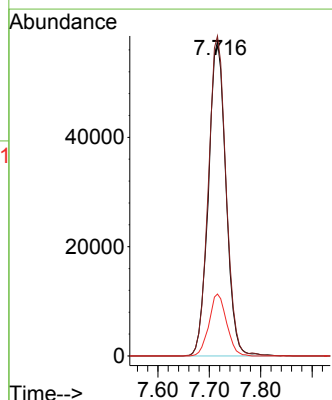
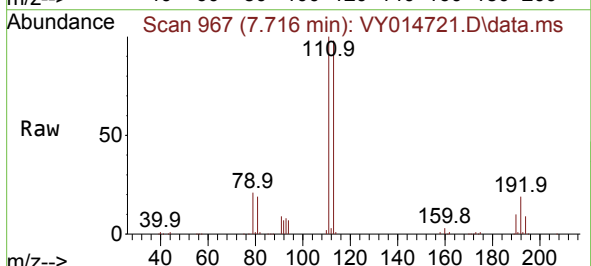
Tgt Ion:113 Resp: 136340

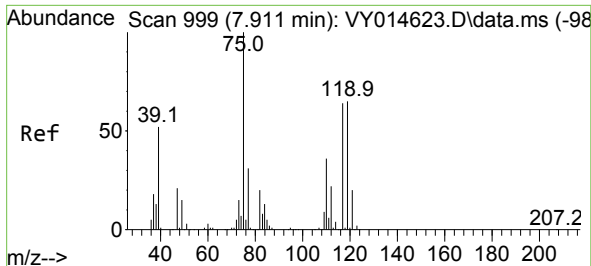
Ion Ratio Lower Upper

113 100

111 102.8 81.3 121.9

192 19.8 16.9 25.3

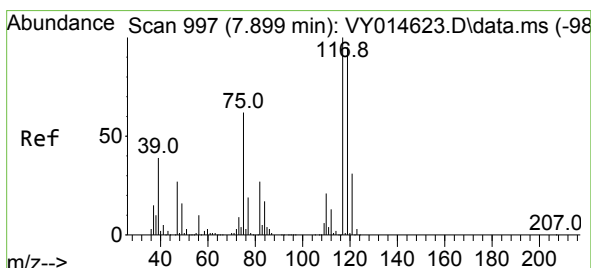
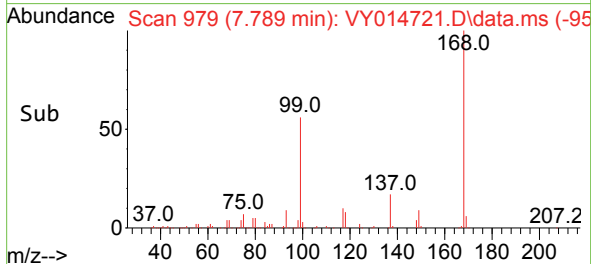
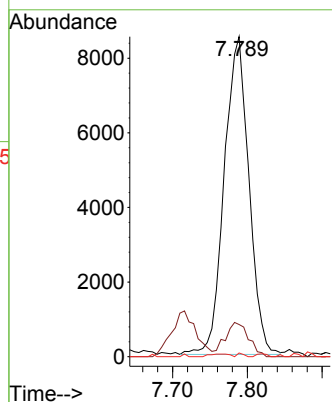
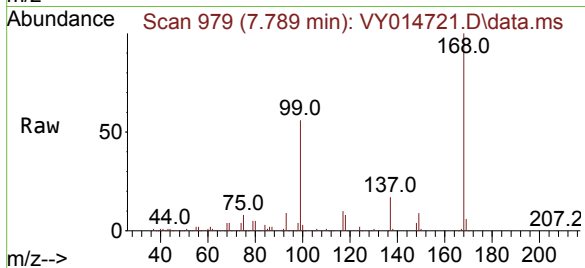




#36
1,1-Dichloropropene
Concen: 4.804 ug/l
RT: 7.789 min Scan# 919
Delta R.T. -0.122 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

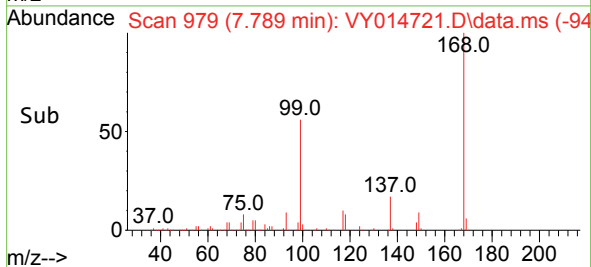
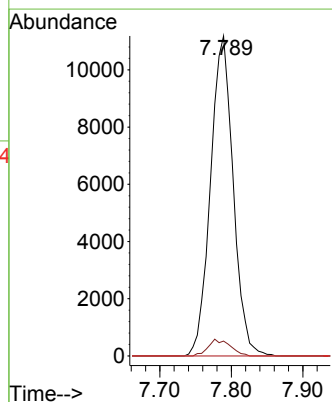
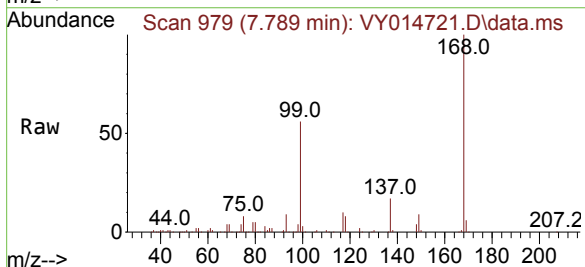
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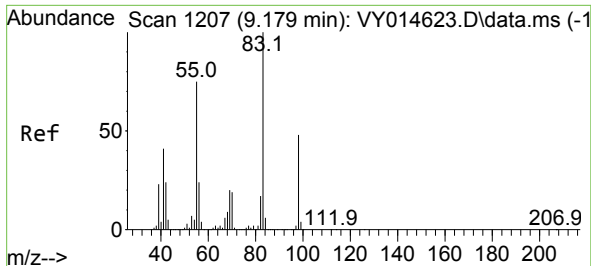
Tgt Ion: 75 Resp: 19563
Ion Ratio Lower Upper
75 100
110 10.3 17.8 53.5#
77 0.3 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.730 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.110 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 117 Resp: 24666
Ion Ratio Lower Upper
117 100
119 4.6 76.4 114.6#
121 0.0 25.8 38.6#

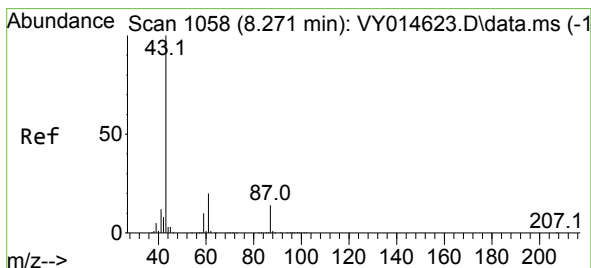
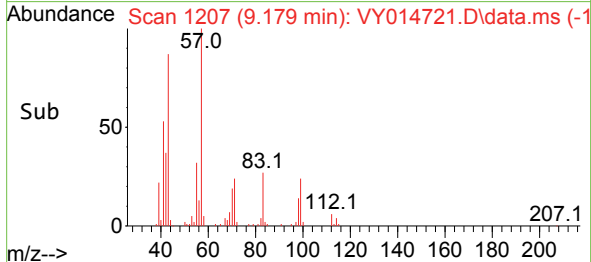
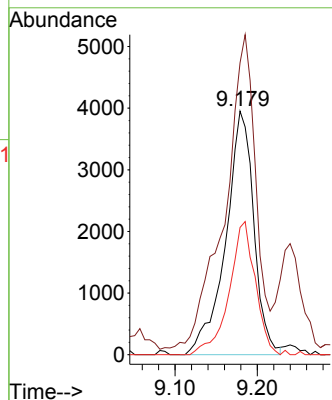
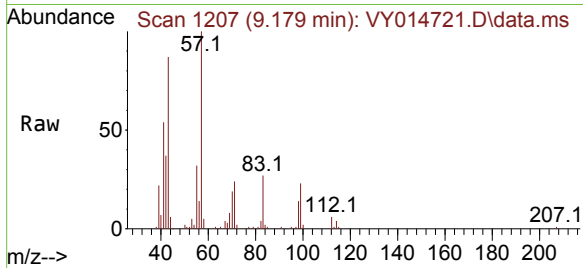




#39
Methylcyclohexane
Concen: 1.771 ug/l
RT: 9.179 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

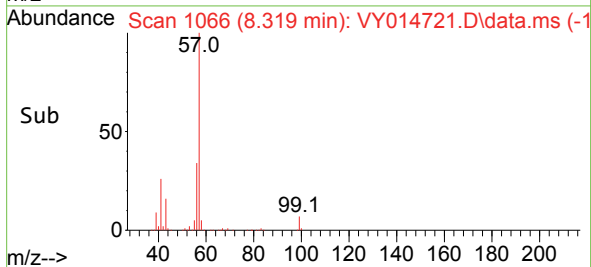
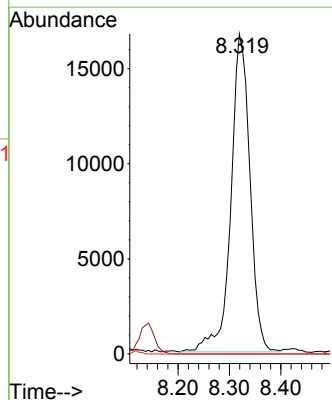
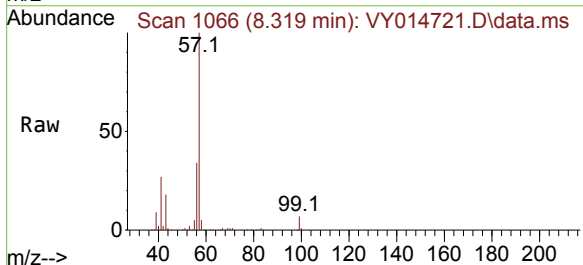
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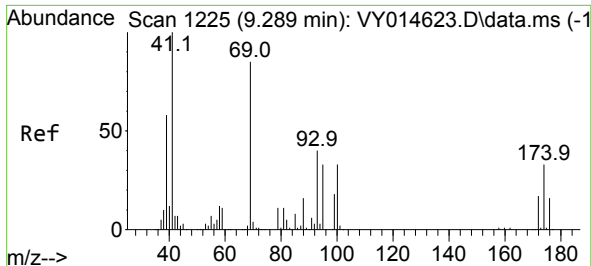
Tgt Ion: 83 Resp: 9394
Ion Ratio Lower Upper
83 100
55 114.8 63.0 94.4#
98 52.2 37.4 56.2



#43
Isopropyl Acetate
Concen: 8.059 ug/l
RT: 8.319 min Scan# 1066
Delta R.T. 0.048 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 43 Resp: 43039
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#

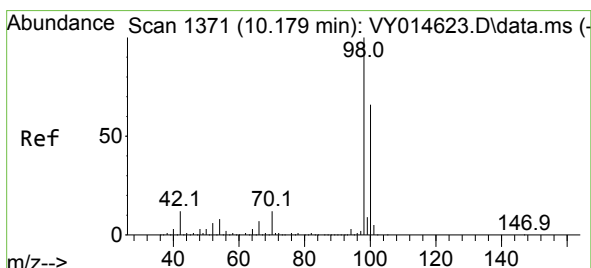
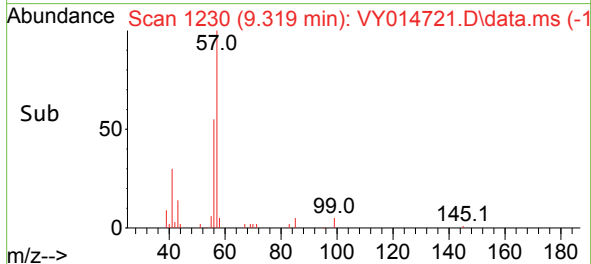
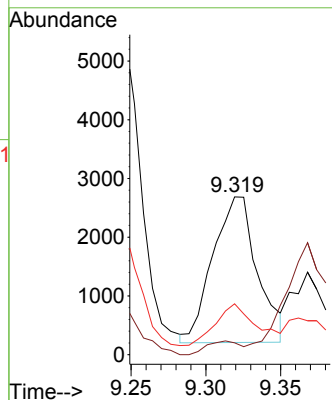
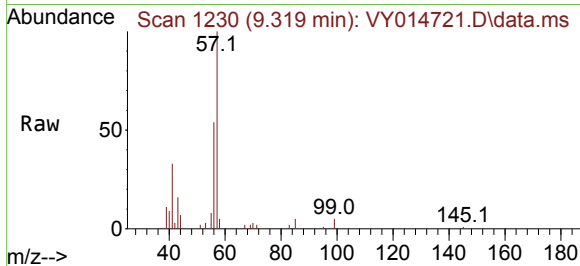




#48
Methyl methacrylate
Concen: 2.132 ug/l
RT: 9.319 min Scan# 1230
Delta R.T. 0.030 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

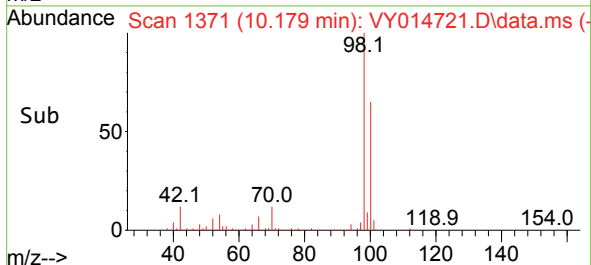
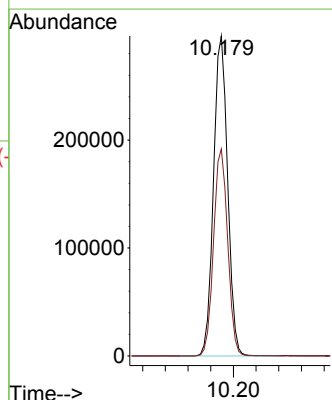
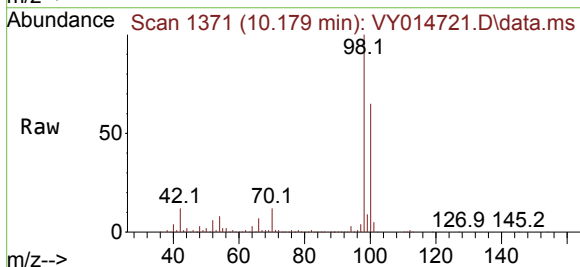
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

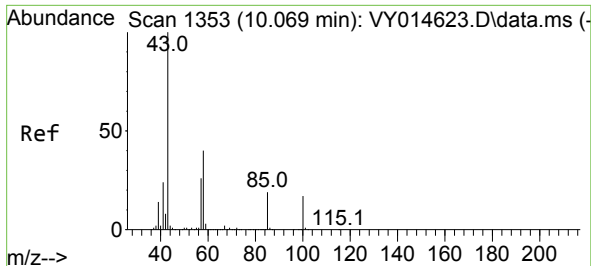
Tgt Ion: 41 Resp: 5124
Ion Ratio Lower Upper
41 100
69 7.1 64.5 96.7#
39 26.8 50.8 76.2#



#50
Toluene-d8
Concen: 50.939 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 98 Resp: 511362
Ion Ratio Lower Upper
98 100
100 64.7 50.1 75.1

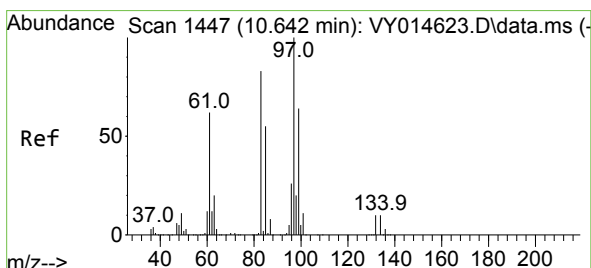
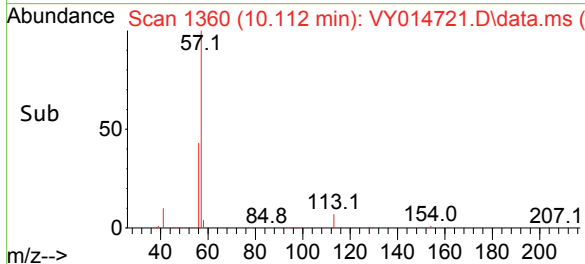
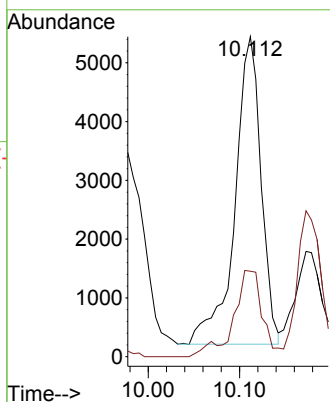
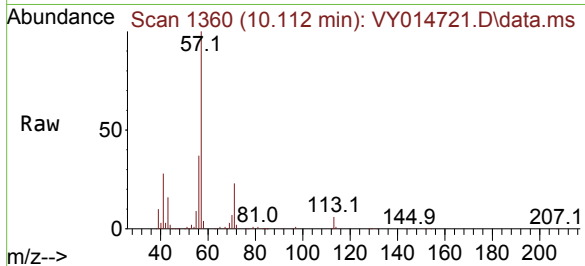




#51
4-Methyl-2-Pentanone
Concen: 3.712 ug/l
RT: 10.112 min Scan# 11
Delta R.T. 0.043 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

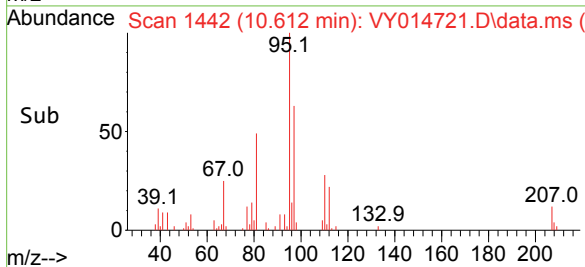
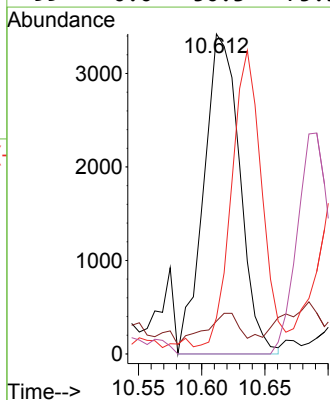
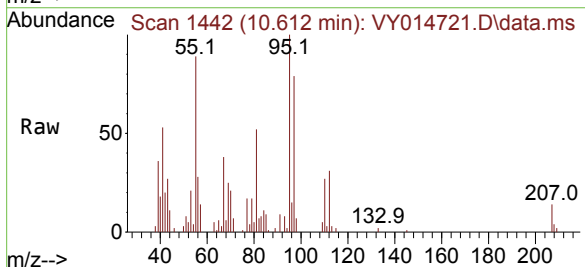
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

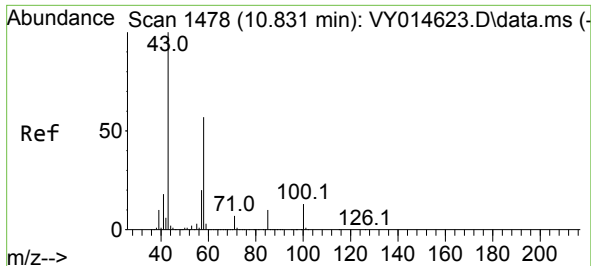
Tgt Ion: 43 Resp: 10409
Ion Ratio Lower Upper
43 100
58 28.3 29.0 43.6#



#55
1,1,2-Trichloroethane
Concen: 2.642 ug/l
RT: 10.612 min Scan# 1442
Delta R.T. -0.030 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 97 Resp: 6752
Ion Ratio Lower Upper
97 100
83 7.4 72.0 108.0#
85 8.2 45.4 68.0#
99 0.0 50.3 75.5#

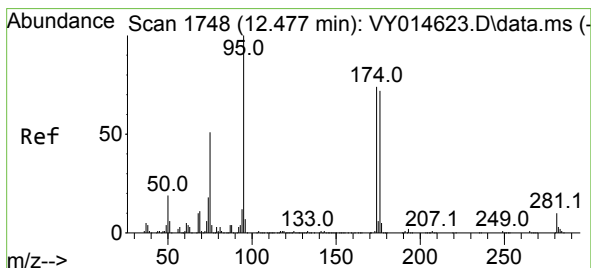
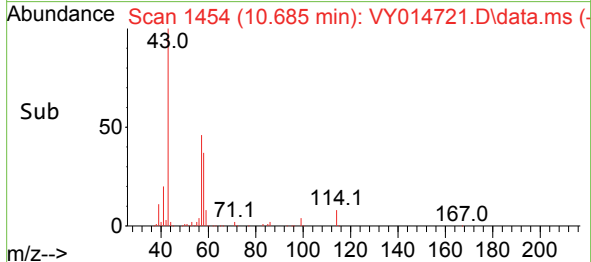
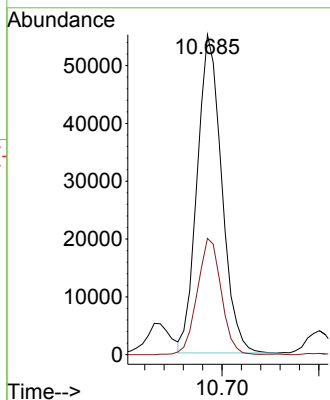
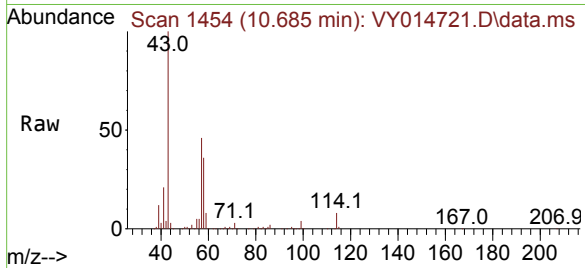




#59
2-Hexanone
Concen: 47.502 ug/l
RT: 10.685 min Scan# 1454
Delta R.T. -0.146 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

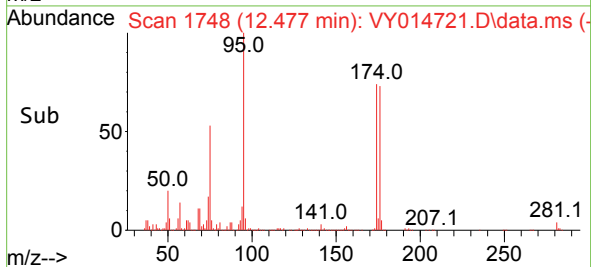
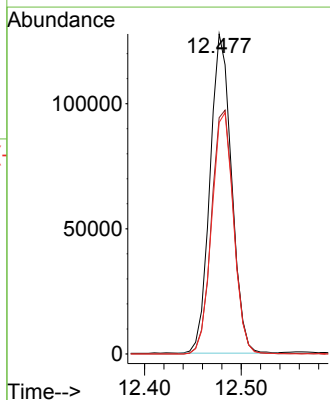
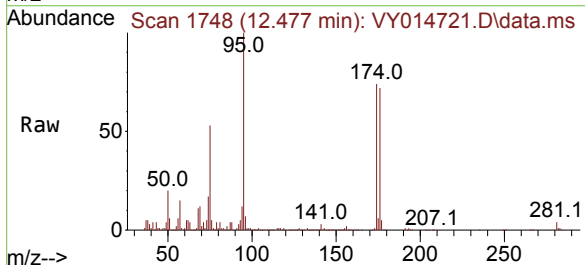
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

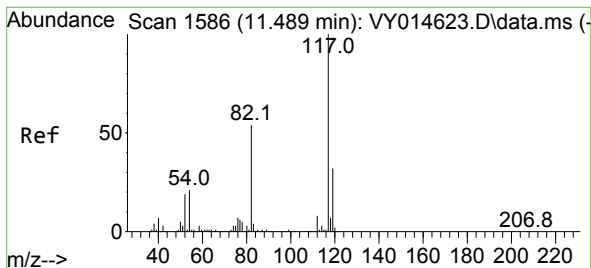
Tgt Ion: 43 Resp: 97135
Ion Ratio Lower Upper
43 100
58 35.6 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 51.329 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 95 Resp: 197579
Ion Ratio Lower Upper
95 100
174 78.5 0.0 178.2
176 76.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY014721.D

Acq: 20 Jul 2023 15:17

Instrument :

MSVOA_Y

ClientSampleId :

AUD-1023

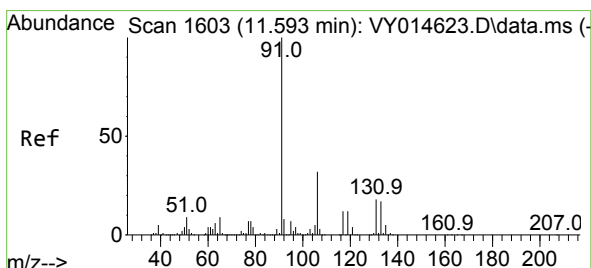
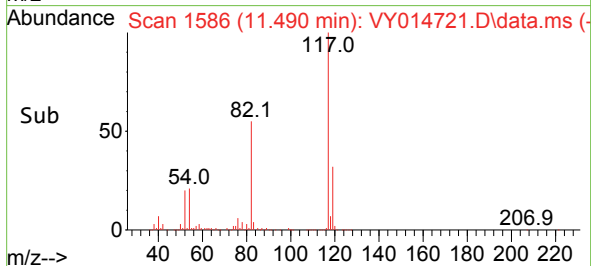
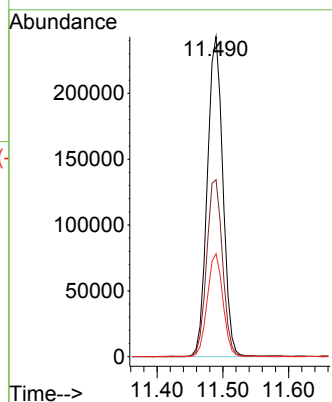
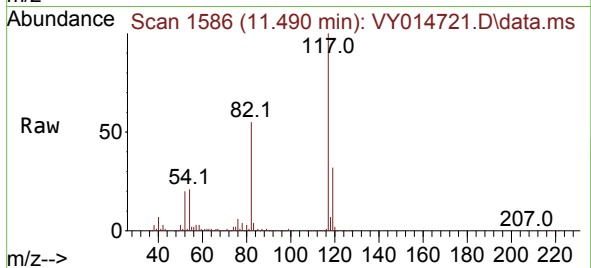
Tgt Ion:117 Resp: 400186

Ion Ratio Lower Upper

117 100

82 55.1 43.4 65.0

119 32.1 26.3 39.5



#67

Ethyl Benzene

Concen: 1.035 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. -0.006 min

Lab File: VY014721.D

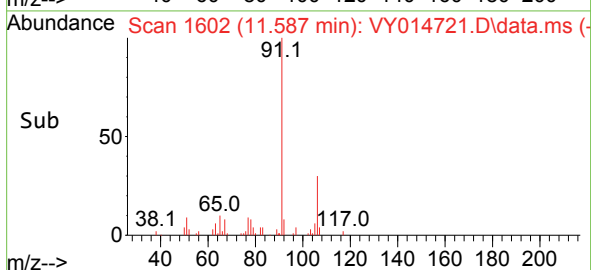
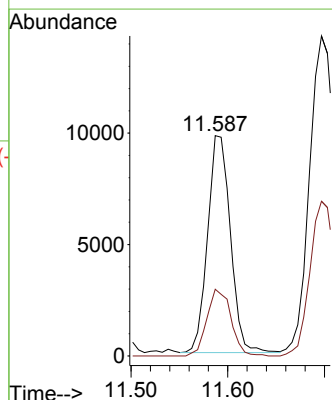
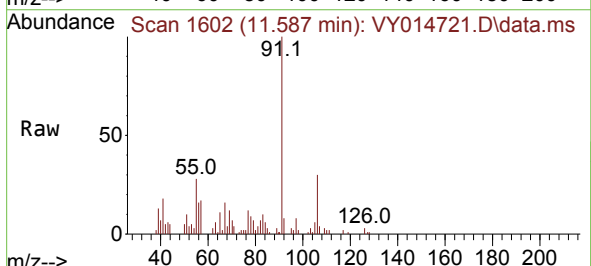
Acq: 20 Jul 2023 15:17

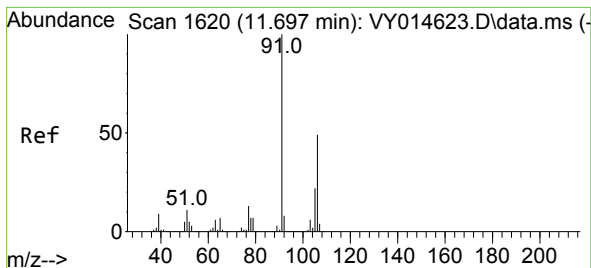
Tgt Ion: 91 Resp: 15929

Ion Ratio Lower Upper

91 100

106 30.8 24.6 36.8

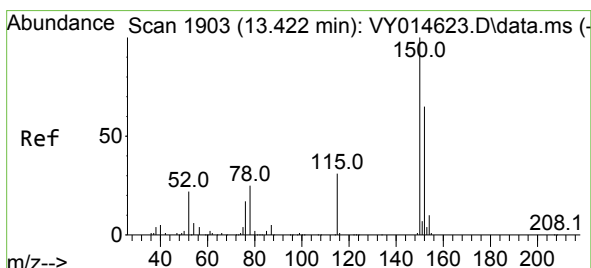
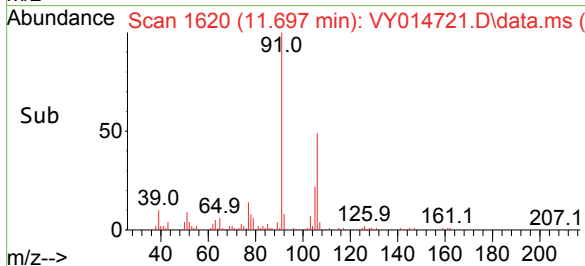
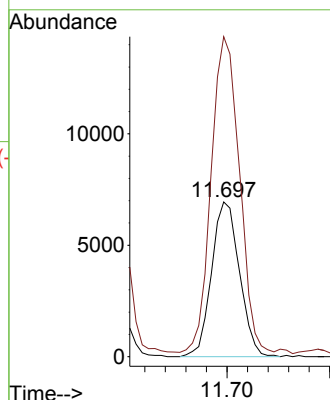
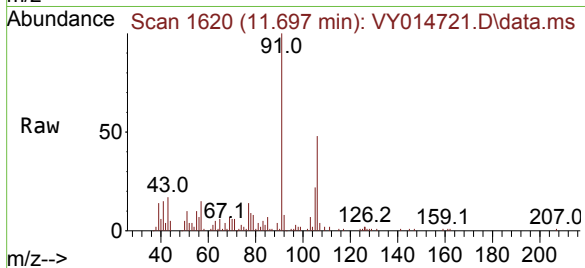




#68
m/p-Xylenes
Concen: 2.224 ug/l
RT: 11.697 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

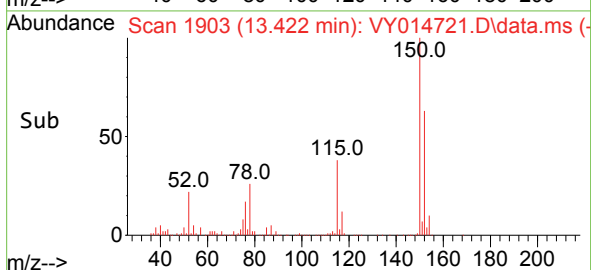
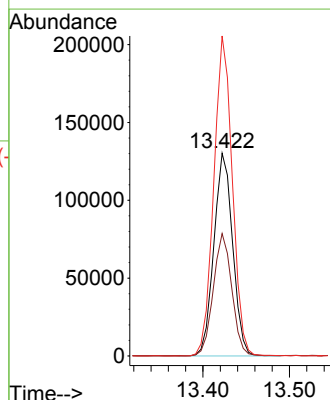
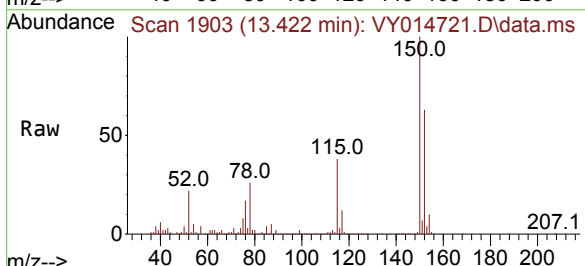
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

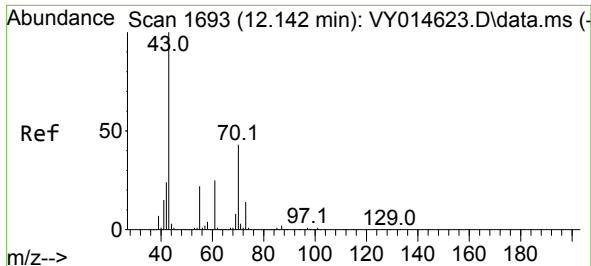
Tgt Ion:106 Resp: 13069
Ion Ratio Lower Upper
106 100
91 206.0 166.1 249.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion:152 Resp: 196115
Ion Ratio Lower Upper
152 100
115 59.4 28.8 86.5
150 155.8 0.0 348.8

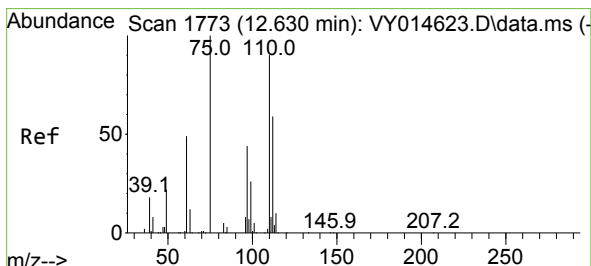
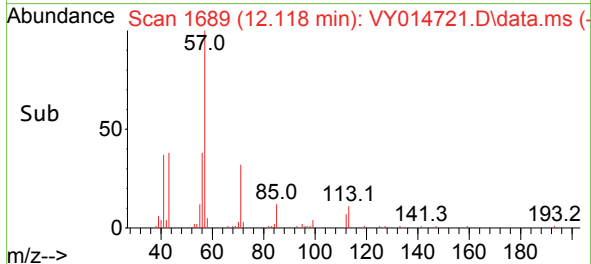
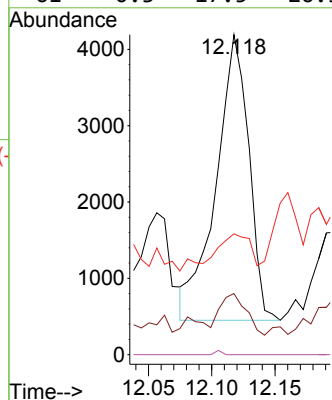
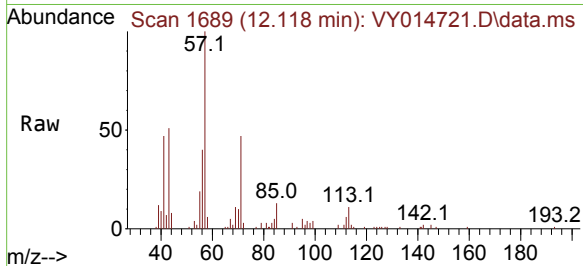




#74
N-amy1 acetate
Concen: 1.309 ug/l
RT: 12.118 min Scan# 1748
Delta R.T. -0.024 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

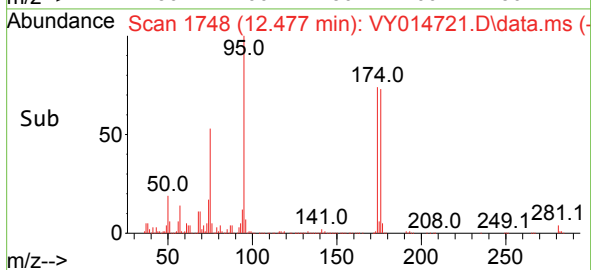
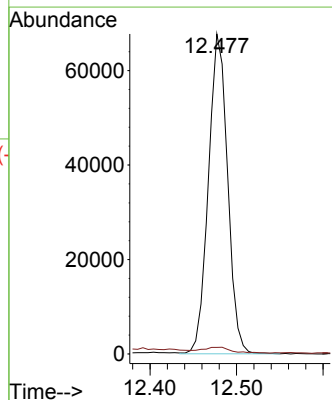
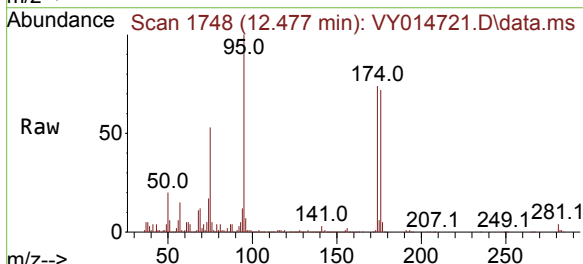
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

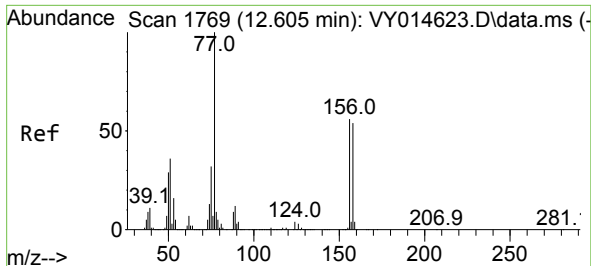
Tgt Ion:	43	Resp:	6732
Ion	Ratio	Lower	Upper
43	100		
70	11.5	29.7	44.5#
55	9.9	18.3	27.5#
61	0.3	17.5	26.3#



#76
1,2,3-Trichloropropane
Concen: 42.052 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion:	75	Resp:	104158
Ion	Ratio	Lower	Upper
75	100		
77	2.9	0.0	0.0#

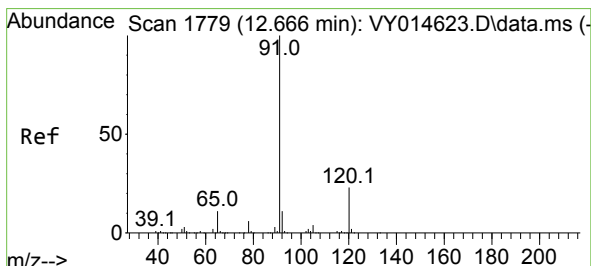
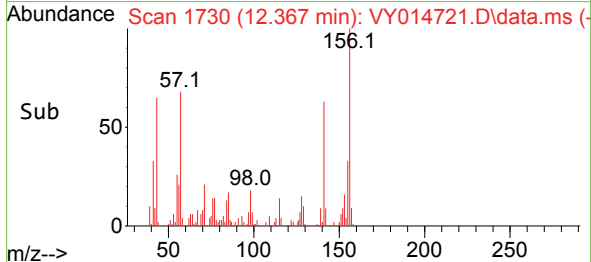
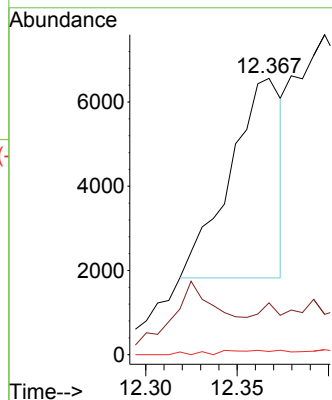
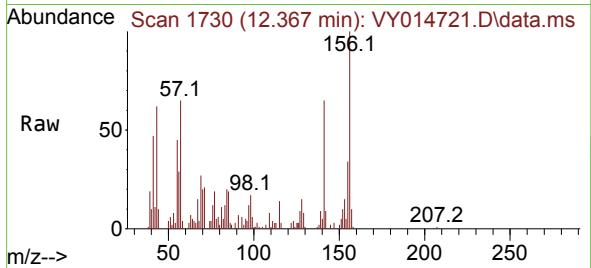




#77
Bromobenzene
Concen: 2.642 ug/l
RT: 12.367 min Scan# 1730
Delta R.T. -0.238 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

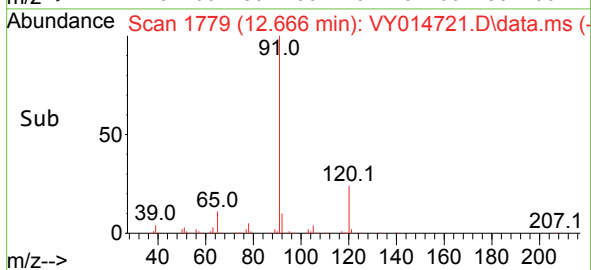
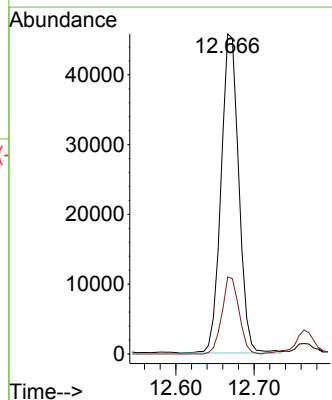
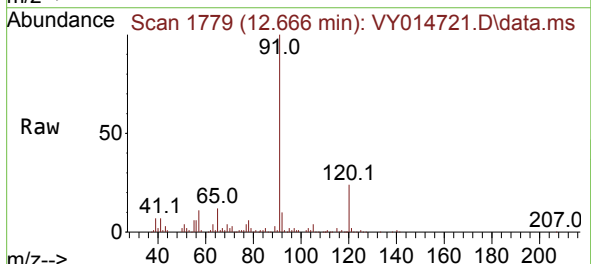
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

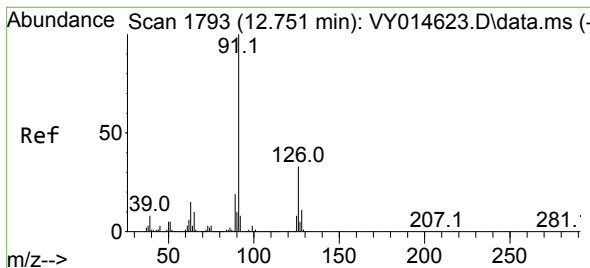
Tgt Ion:156 Resp: 9260
Ion Ratio Lower Upper
156 100
77 1.9 92.8 278.6#
158 0.0 48.4 145.3#



#78
n-propylbenzene
Concen: 3.890 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 91 Resp: 71989
Ion Ratio Lower Upper
91 100
120 23.2 11.5 34.4





#79

2-Chlorotoluene

Concen: 6.754 ug/l

RT: 12.666 min Scan# 1

Delta R.T. -0.085 min

Lab File: VY014721.D

Acq: 20 Jul 2023 15:17

Instrument :

MSVOA_Y

ClientSampleId :

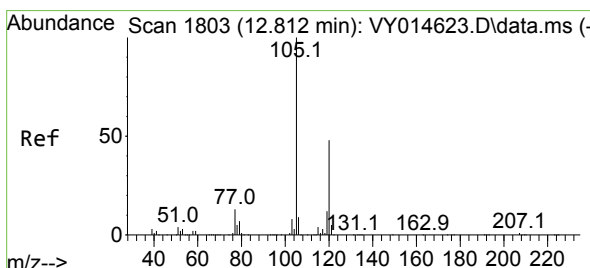
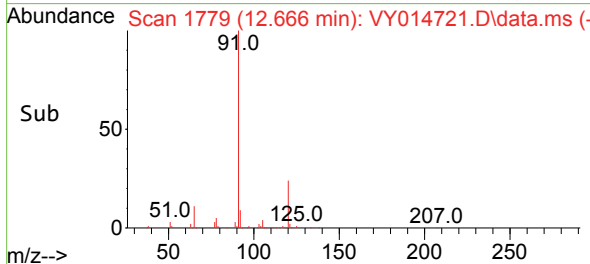
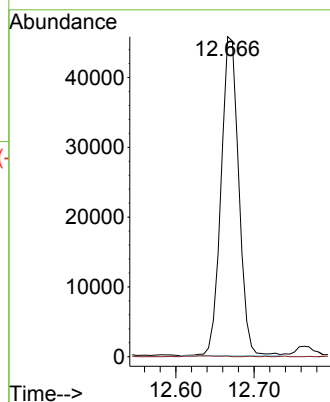
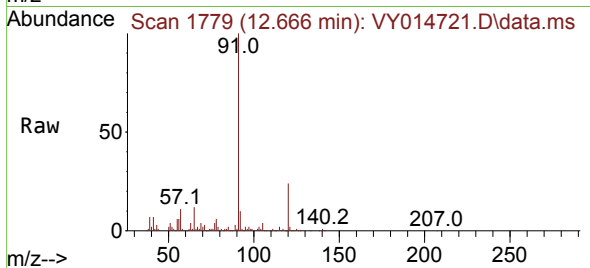
AUD-1023

Tgt Ion: 91 Resp: 71989

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#



#80

1,3,5-Trimethylbenzene

Concen: 1.415 ug/l

RT: 12.764 min Scan# 1795

Delta R.T. -0.048 min

Lab File: VY014721.D

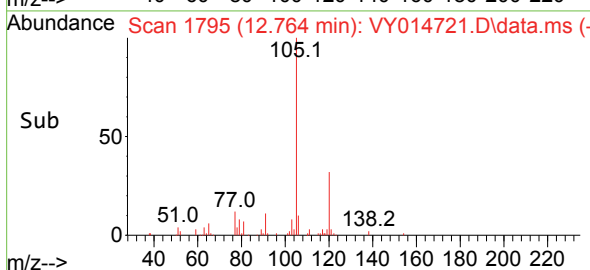
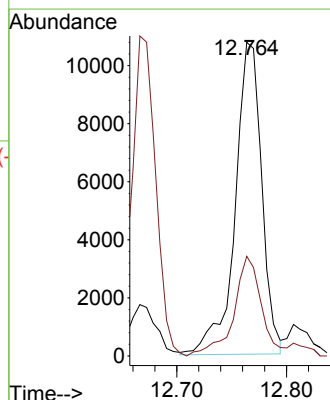
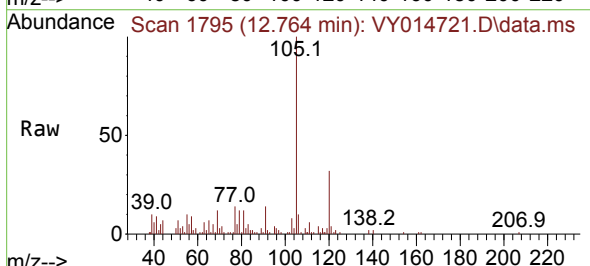
Acq: 20 Jul 2023 15:17

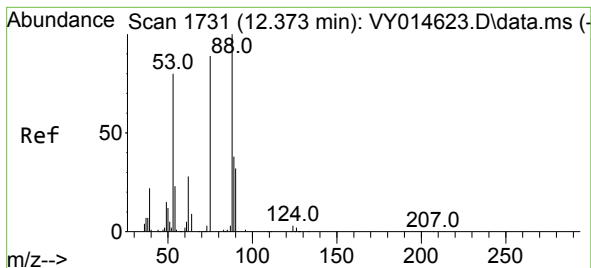
Tgt Ion: 105 Resp: 18152

Ion Ratio Lower Upper

105 100

120 33.3 23.9 71.7

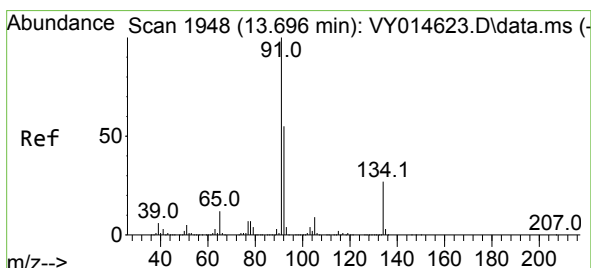
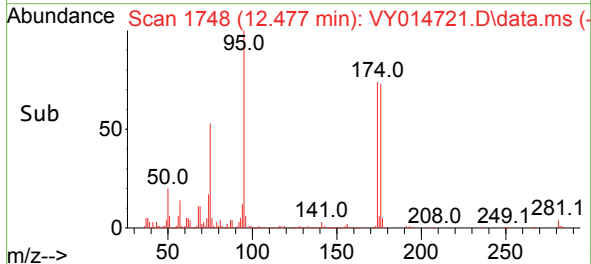
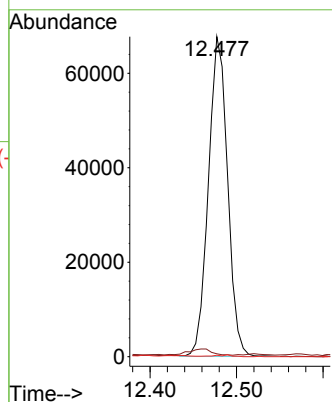
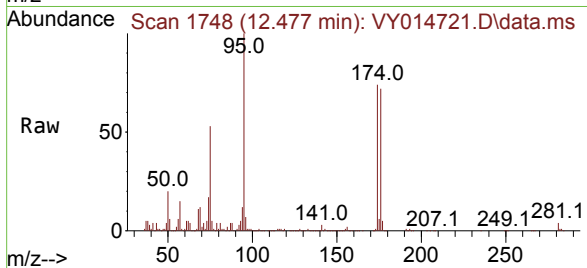




#81
trans-1,4-Dichloro-2-butene
Concen: 81.420 ug/l
RT: 12.477 min Scan# 1731
Delta R.T. 0.104 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

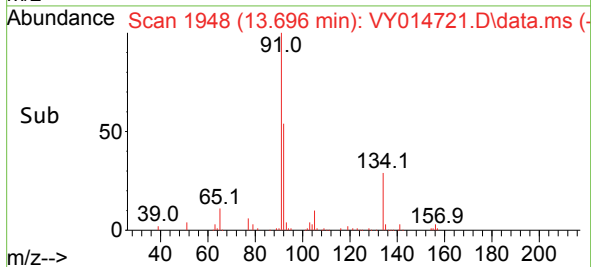
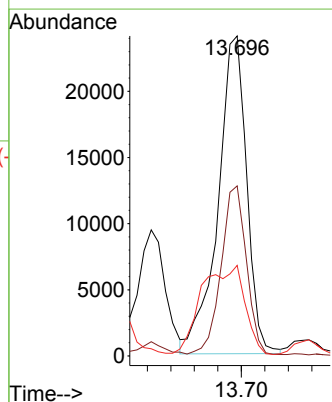
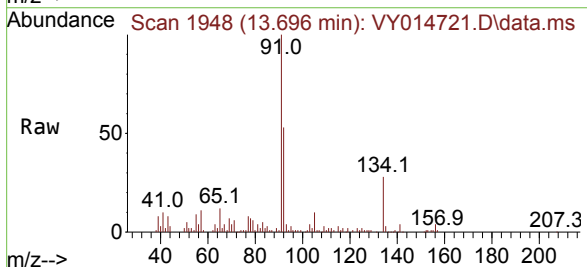
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1023

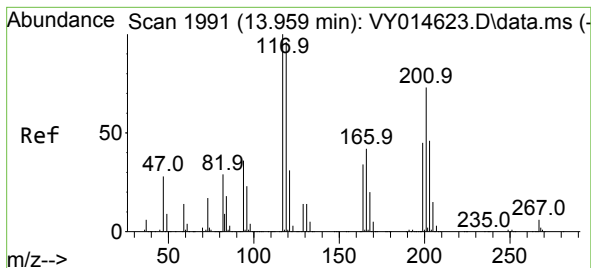
Tgt Ion: 75 Resp: 104158
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.5 37.4 56.0#



#89
n-Butylbenzene
Concen: 3.081 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY014721.D
Acq: 20 Jul 2023 15:17

Tgt Ion: 91 Resp: 40840
Ion Ratio Lower Upper
91 100
92 46.8 25.4 76.0
134 43.2 12.6 37.6#





#90

Hexachloroethane

Concen: 5.005 ug/l

RT: 13.971 min Scan# 1991

Delta R.T. 0.012 min

Lab File: VY014721.D

Acq: 20 Jul 2023 15:17

Instrument :

MSVOA_Y

ClientSampleId :

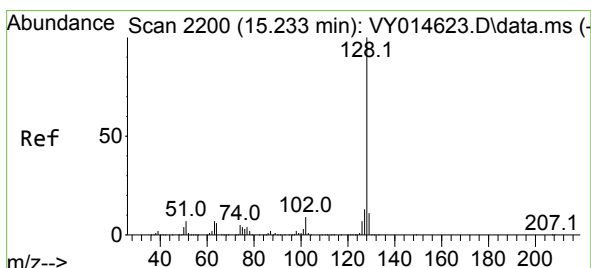
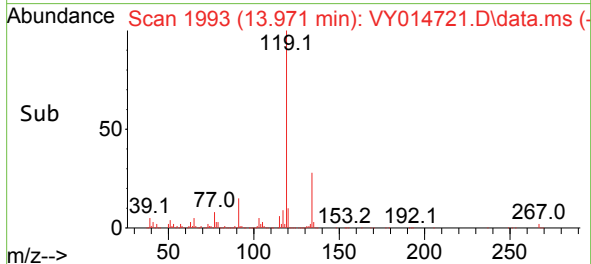
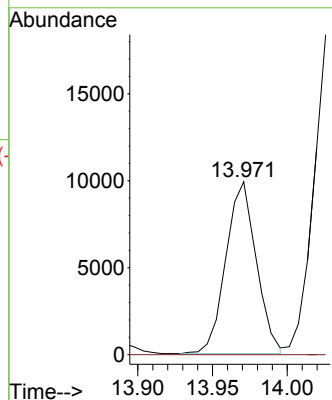
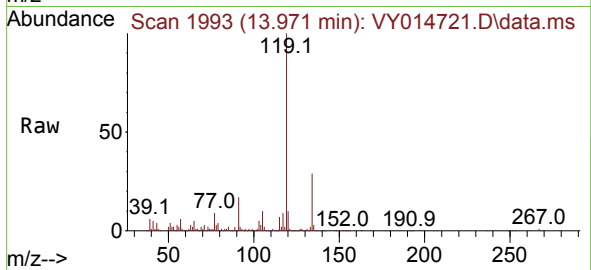
AUD-1023

Tgt Ion:117 Resp: 14006

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#95

Naphthalene

Concen: 46.002 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.000 min

Lab File: VY014721.D

Acq: 20 Jul 2023 15:17

Tgt Ion:128 Resp: 425233

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

129 11.0 8.6 13.0

