

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092923\
 Data File : VY015760.D
 Acq On : 29 Sep 2023 17:52
 Operator : SY/MD
 Sample : 04614-03
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 30 01:15:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 20 01:39:40 2023
 Response via : Initial Calibration

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

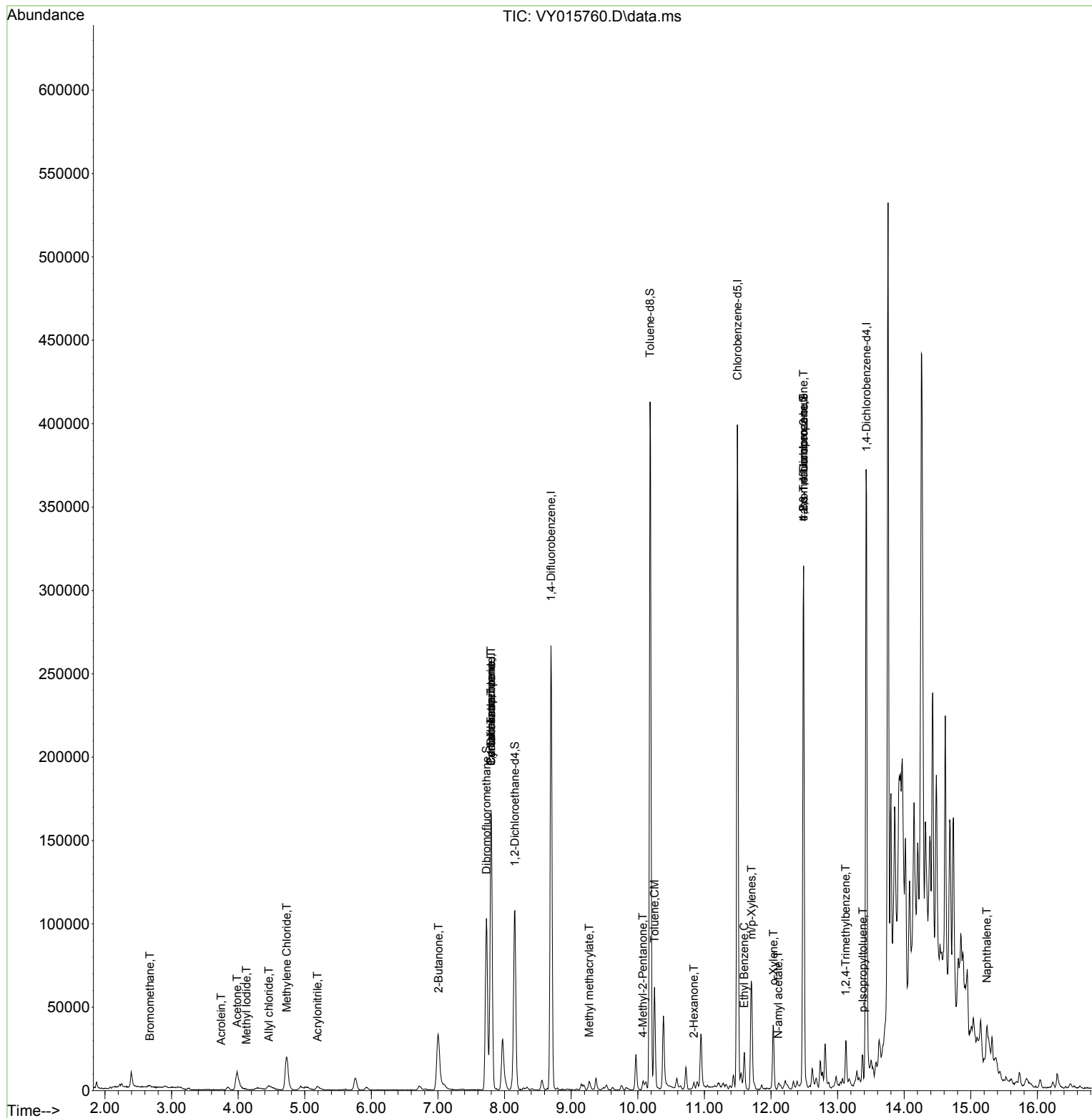
Internal Standards						
1) Pentafluorobenzene	7.795	168	129688	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.697	114	225174	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.496	117	209502	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	94498	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	82767	58.004	ug/l	0.02
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.000%	
35) Dibromofluoromethane	7.728	113	72945	54.124	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.240%	
50) Toluene-d8	10.185	98	266913	58.409	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 116.820%	
62) 4-Bromofluorobenzene	12.489	95	90800	50.633	ug/l	0.01
Spiked Amount	50.000	Range	30 - 143	Recovery	= 101.260%	
Target Compounds						Qvalue
5) Bromomethane	2.674	94	427	2.888	ug/l #	58
10) Methyl Iodide	4.125	142	448	3.007	ug/l #	44
11) Tert butyl alcohol	4.997	59	345	Below Cal	#	61
13) Acrolein	3.747	56	265	1.213	ug/l #	71
14) Allyl chloride	4.460	41	6306	3.023	ug/l #	32
15) Acrylonitrile	5.192	53	2836	4.384	ug/l	95
16) Acetone	3.985	43	25277	33.101	ug/l	96
20) Methylene Chloride	4.729	84	15174	4.687	ug/l	93
25) 2-Butanone	7.009	43	9243	8.563	ug/l	94
31) Cyclohexane	7.795	56	3317	1.678	ug/l #	15
36) 1,1-Dichloropropene	7.795	75	10615	5.327	ug/l #	50
38) Carbon Tetrachloride	7.795	117	13460	6.223	ug/l #	17
48) Methyl methacrylate	9.270	41	2019	1.355	ug/l #	42
51) 4-Methyl-2-Pentanone	10.075	43	4875	2.316	ug/l	98
52) Toluene	10.252	92	24693	6.303	ug/l	94
59) 2-Hexanone	10.843	43	3193	1.978	ug/l	97
67) Ethyl Benzene	11.599	91	14117	1.766	ug/l	94
68) m/p-Xylenes	11.709	106	20151	6.633	ug/l	98
69) o-Xylene	12.038	106	6468	2.171	ug/l	99
74) N-amyl acetate	12.111	43	2710	1.017	ug/l #	51
76) 1,2,3-Trichloropropane	12.489	75	48285	32.029	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.489	75	48285	72.125	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.123	105	15298	2.576	ug/l	97
86) p-Isopropyltoluene	13.380	119	8395	1.292	ug/l	98
95) Naphthalene	15.239	128	20407	3.901	ug/l	99

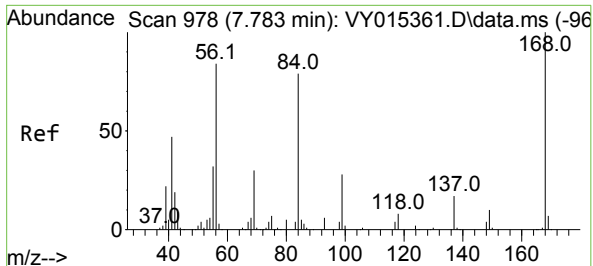
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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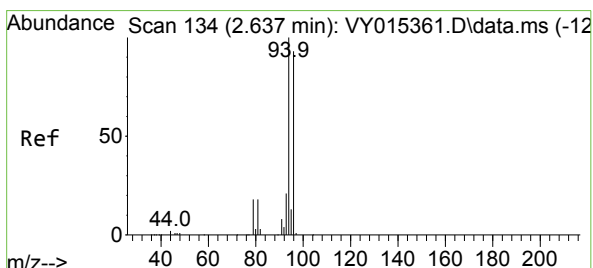
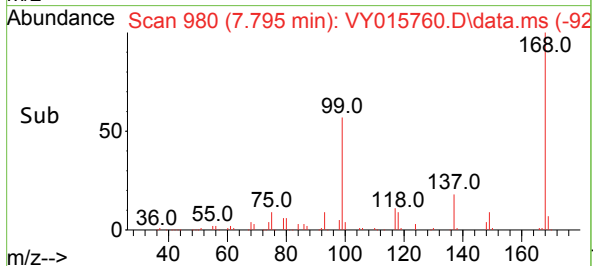
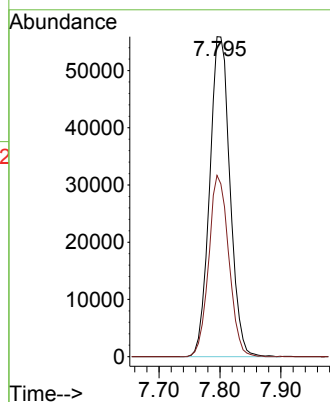
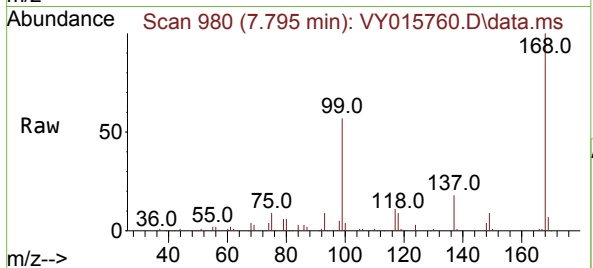




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

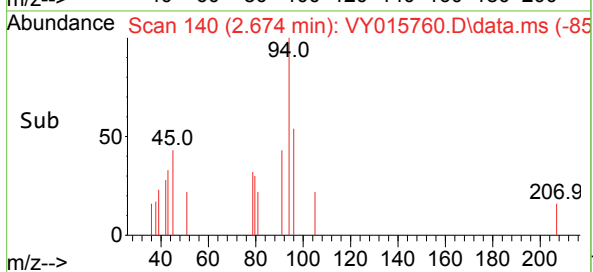
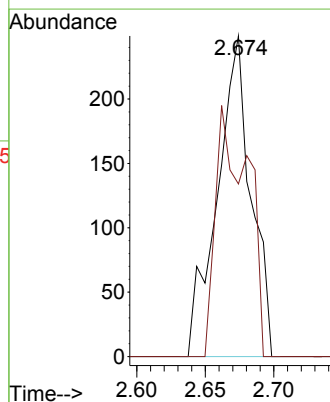
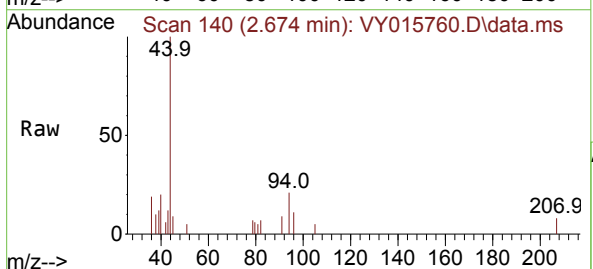
Instrument :
MSVOA_Y
ClientSampleId :

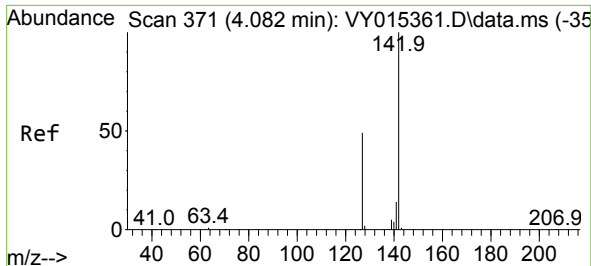
Tgt Ion:168 Resp: 129688
Ion Ratio Lower Upper
168 100
99 56.7 43.4 65.0



#5
Bromomethane
Concen: 2.888 ug/l
RT: 2.674 min Scan# 140
Delta R.T. 0.037 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Tgt Ion: 94 Resp: 427
Ion Ratio Lower Upper
94 100
96 53.8 75.8 113.6#





#10

Methyl Iodide

Concen: 3.007 ug/l

RT: 4.125 min Scan# 31

Delta R.T. 0.043 min

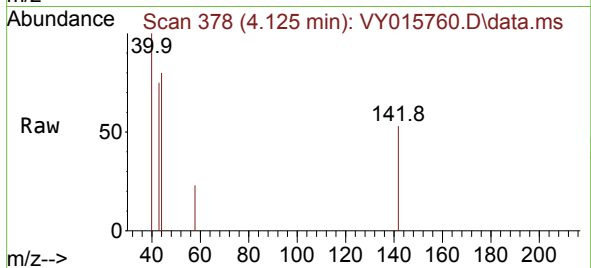
Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

ClientSampleId :



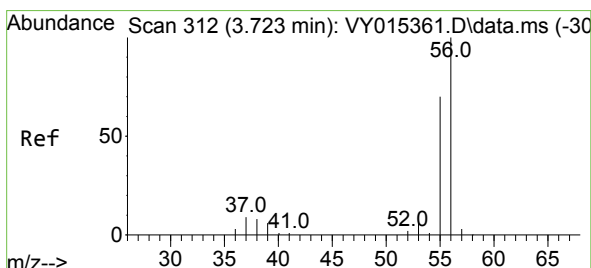
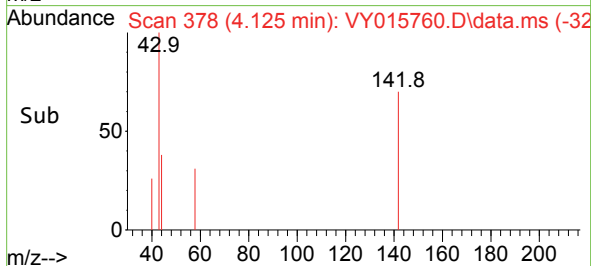
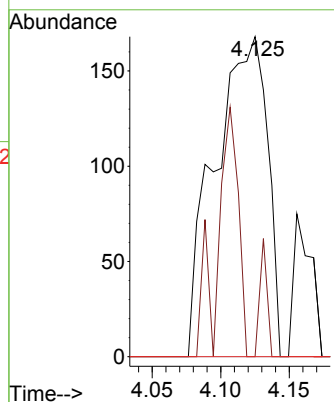
Tgt Ion:142 Resp: 448

Ion Ratio Lower Upper

142 100

127 5.1 37.6 56.4#

141 0.0 11.8 17.8#



#13

Acrolein

Concen: 1.213 ug/l

RT: 3.747 min Scan# 316

Delta R.T. 0.024 min

Lab File: VY015760.D

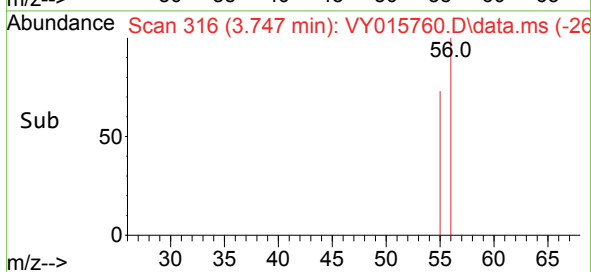
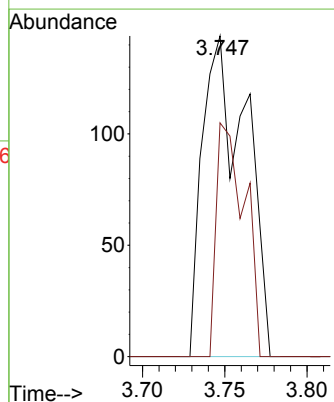
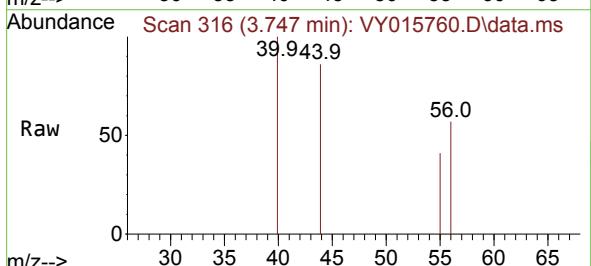
Acq: 29 Sep 2023 17:52

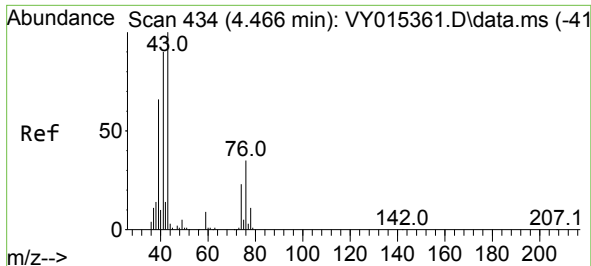
Tgt Ion: 56 Resp: 265

Ion Ratio Lower Upper

56 100

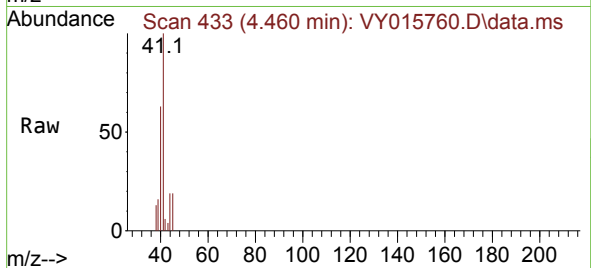
55 47.5 57.0 85.4#



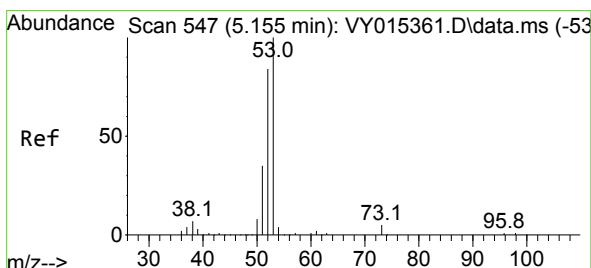
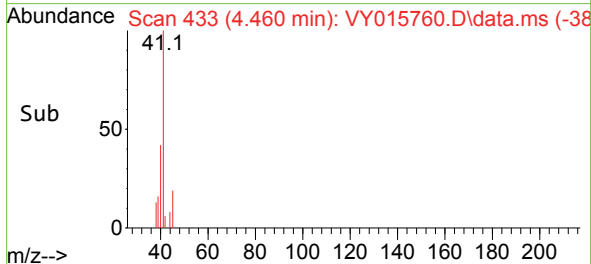
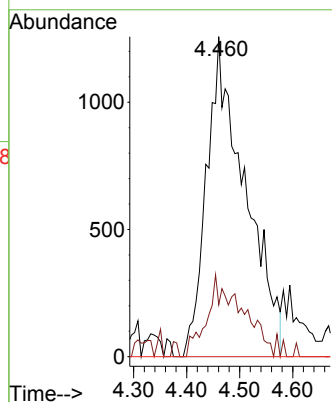


#14
 Allyl chloride
 Concen: 3.023 ug/l
 RT: 4.460 min Scan# 41
 Delta R.T. -0.012 min
 Lab File: VY015760.D
 Acq: 29 Sep 2023 17:52

Instrument :
 MSVOA_Y
 ClientSampleId :

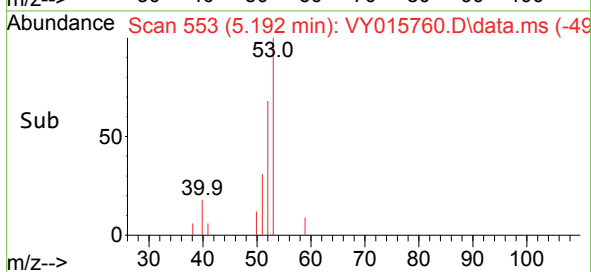
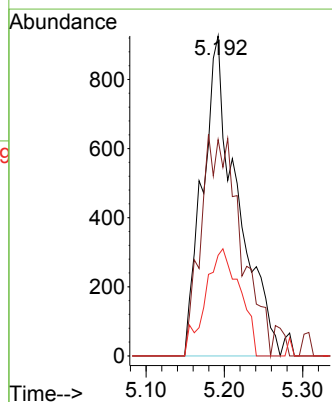
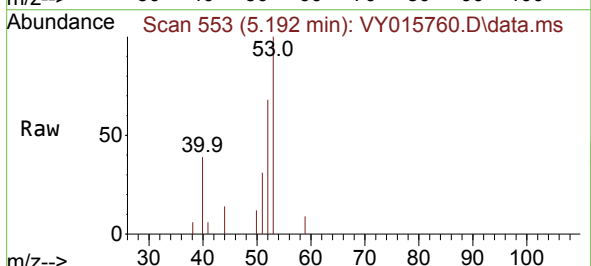


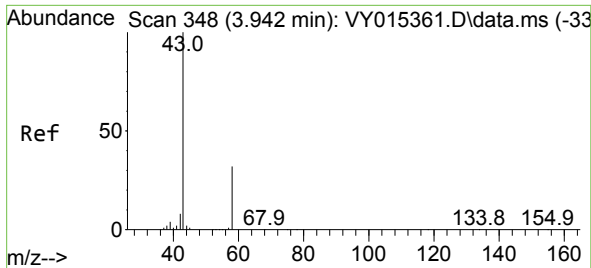
Tgt Ion: 41 Resp: 6306
 Ion Ratio Lower Upper
 41 100
 39 12.5 58.0 87.0#
 76 0.0 27.4 41.2#



#15
 Acrylonitrile
 Concen: 4.384 ug/l
 RT: 5.192 min Scan# 553
 Delta R.T. 0.031 min
 Lab File: VY015760.D
 Acq: 29 Sep 2023 17:52

Tgt Ion: 53 Resp: 2836
 Ion Ratio Lower Upper
 53 100
 52 79.6 66.9 100.3
 51 33.5 29.8 44.6





#16

Acetone

Concen: 33.101 ug/l

RT: 3.985 min Scan# 3

Delta R.T. 0.043 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

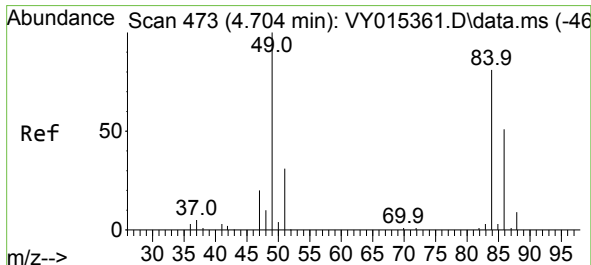
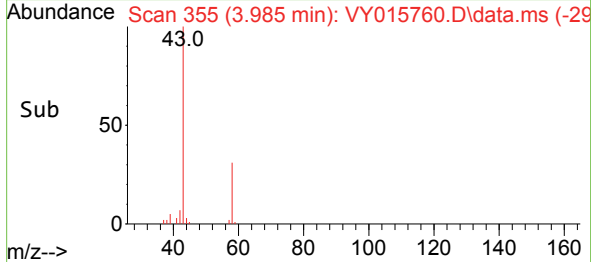
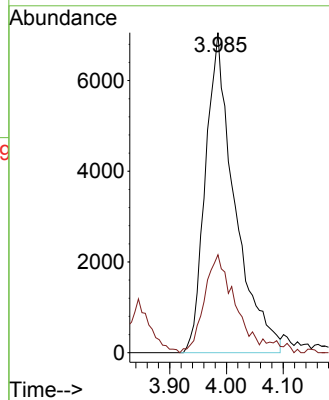
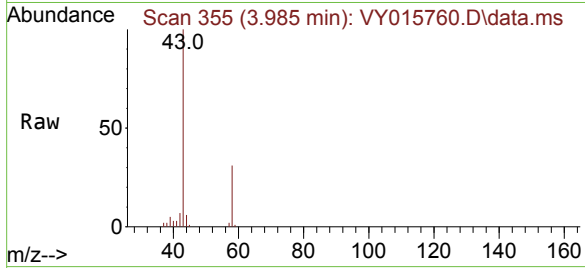
ClientSampleId :

Tgt Ion: 43 Resp: 25277

Ion Ratio Lower Upper

43 100

58 30.6 22.7 34.1



#20

Methylene Chloride

Concen: 4.687 ug/l

RT: 4.729 min Scan# 477

Delta R.T. 0.025 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Tgt Ion: 84 Resp: 15174

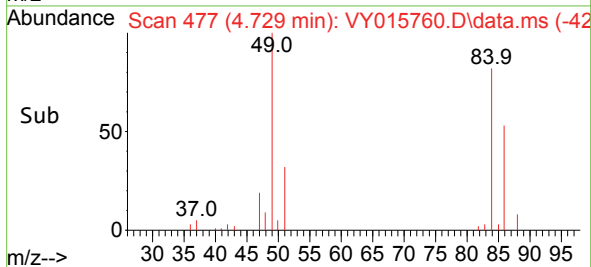
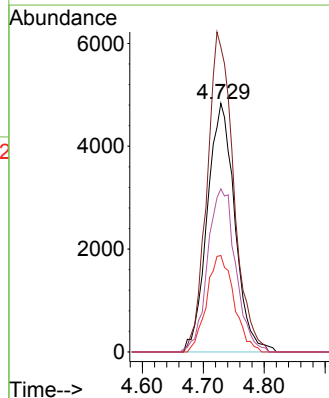
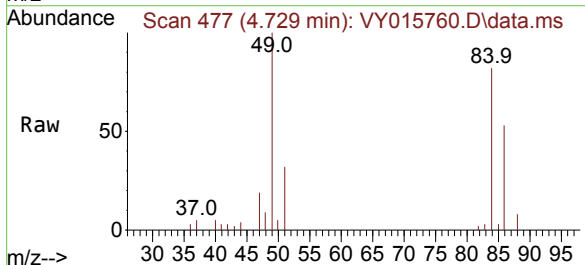
Ion Ratio Lower Upper

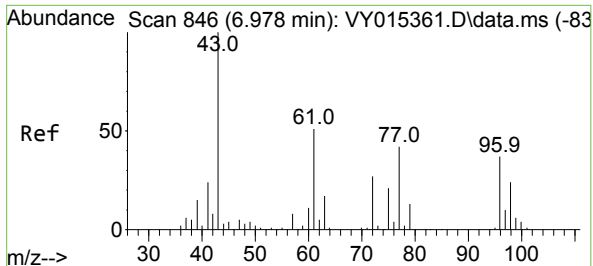
84 100

49 122.6 106.9 160.3

51 38.8 33.2 49.8

86 65.6 51.0 76.6





#25

2-Butanone

Concen: 8.563 ug/l

RT: 7.009 min Scan# 81

Delta R.T. 0.031 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

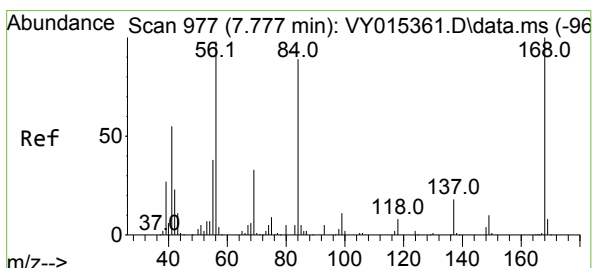
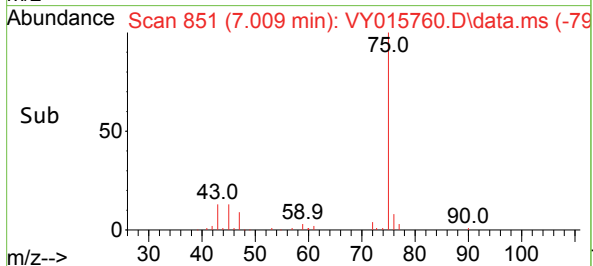
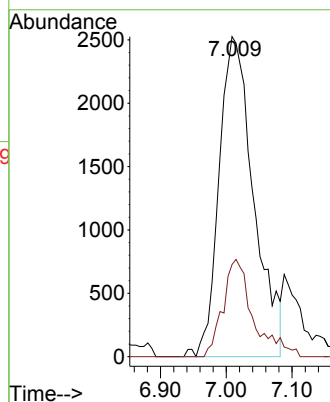
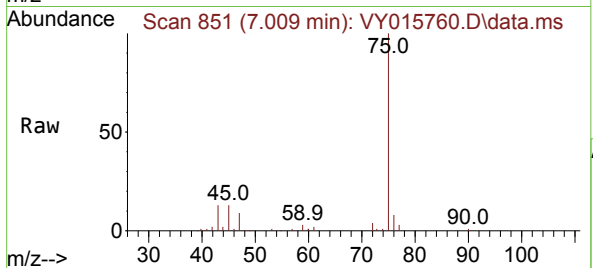
ClientSampleId :

Tgt Ion: 43 Resp: 9243

Ion Ratio Lower Upper

43 100

72 28.8 20.5 30.7



#31

Cyclohexane

Concen: 1.678 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.012 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

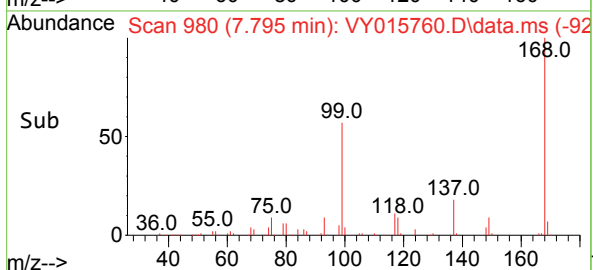
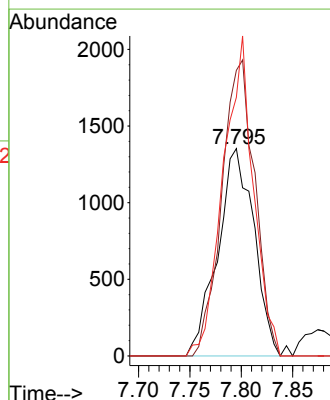
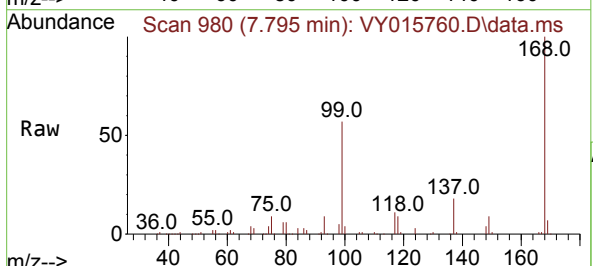
Tgt Ion: 56 Resp: 3317

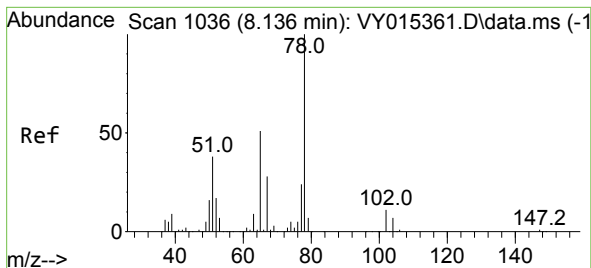
Ion Ratio Lower Upper

56 100

69 137.8 27.8 41.6#

84 124.7 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 58.004 ug/l

RT: 8.155 min Scan# 110

Delta R.T. 0.019 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

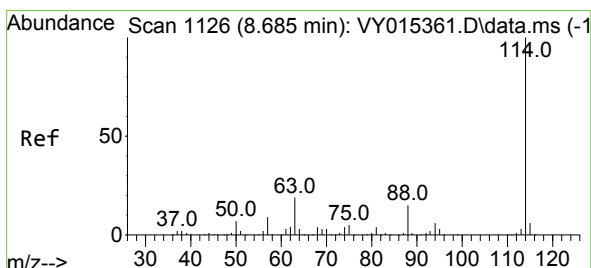
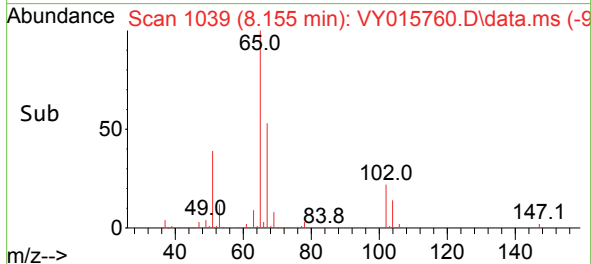
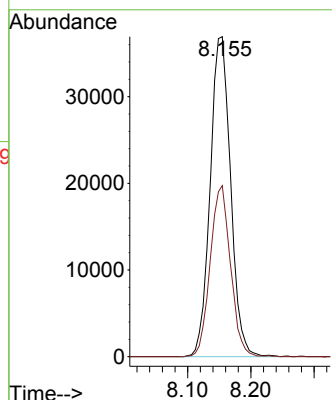
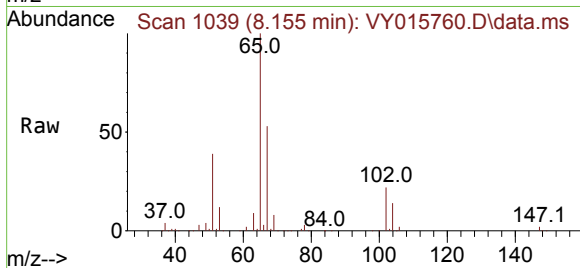
ClientSampleId :

Tgt Ion: 65 Resp: 82767

Ion Ratio Lower Upper

65 100

67 53.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.012 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

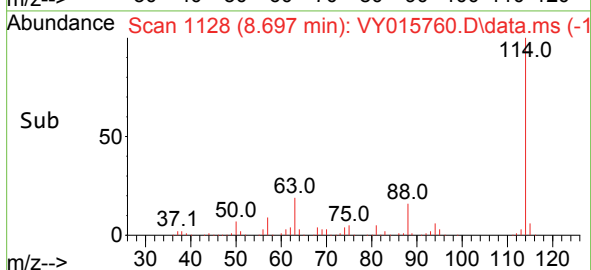
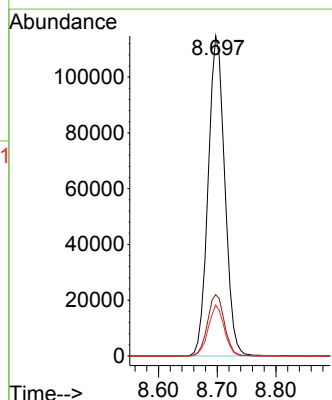
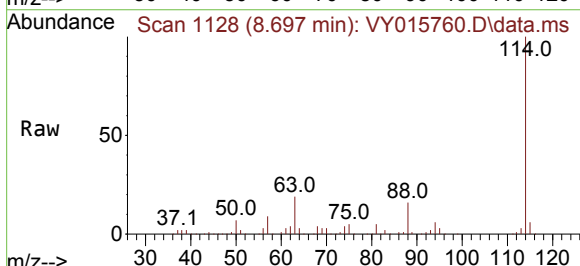
Tgt Ion: 114 Resp: 225174

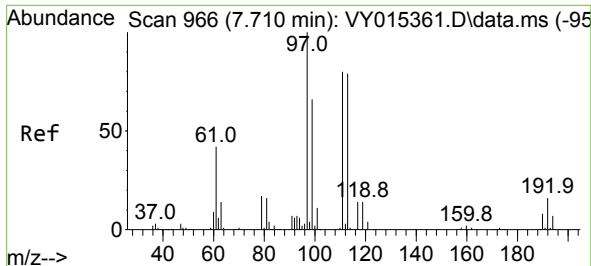
Ion Ratio Lower Upper

114 100

63 19.2 0.0 42.4

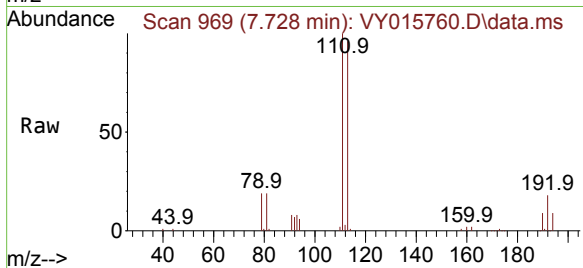
88 15.9 0.0 30.6



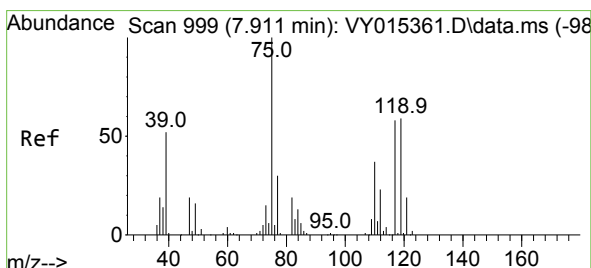
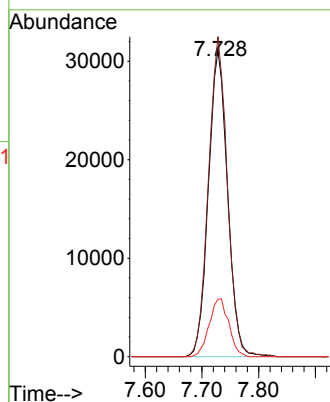
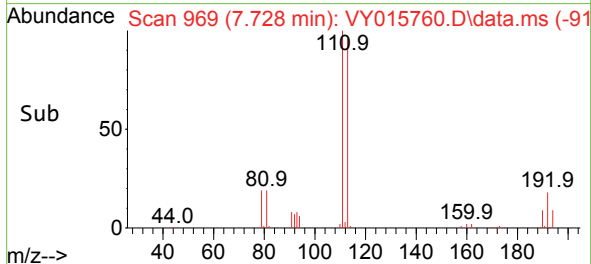


#35
Dibromofluoromethane
Concen: 54.124 ug/l
RT: 7.728 min Scan# 910
Delta R.T. 0.012 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

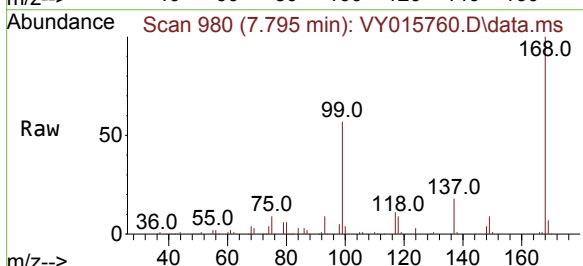
Instrument :
MSVOA_Y
ClientSampleId :



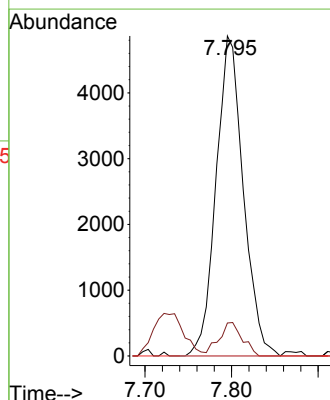
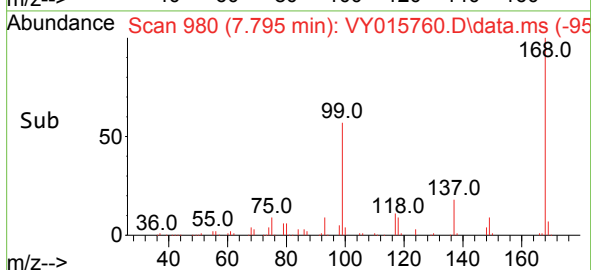
Tgt Ion:113 Resp: 72945
Ion Ratio Lower Upper
113 100
111 102.9 81.3 121.9
192 19.3 16.9 25.3

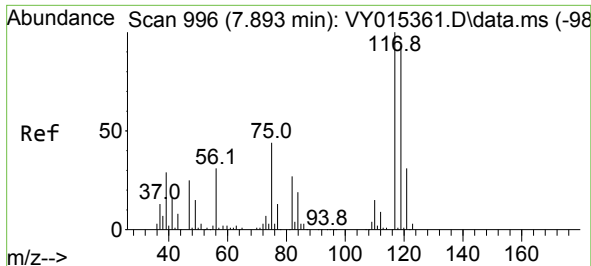


#36
1,1-Dichloropropene
Concen: 5.327 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.116 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52



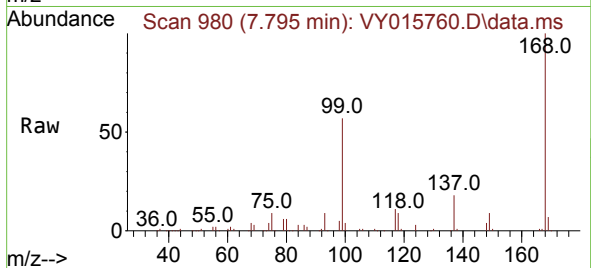
Tgt Ion: 75 Resp: 10615
Ion Ratio Lower Upper
75 100
110 8.9 17.8 53.5#
77 0.0 24.4 36.6#



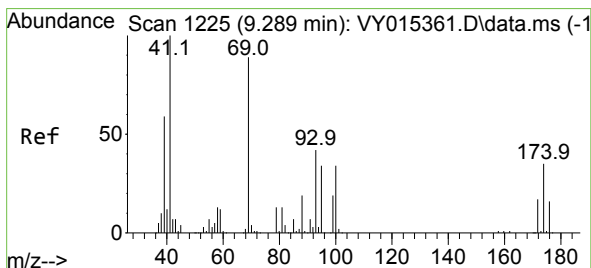
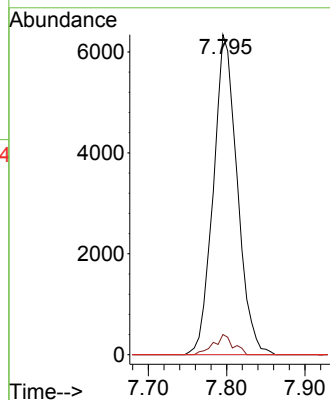
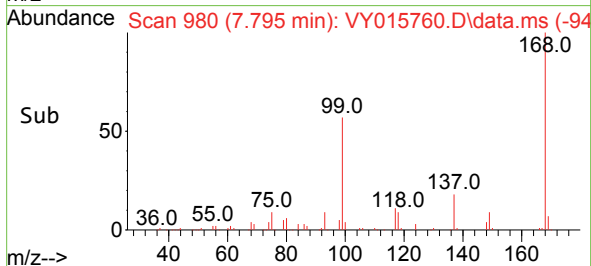


#38
Carbon Tetrachloride
Concen: 6.223 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.098 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Instrument :
MSVOA_Y
ClientSampleId :

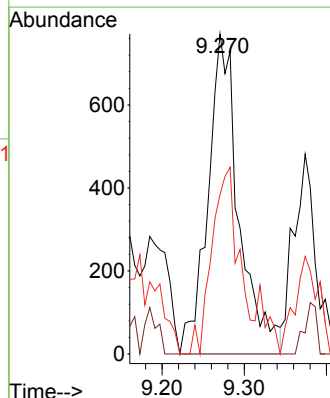
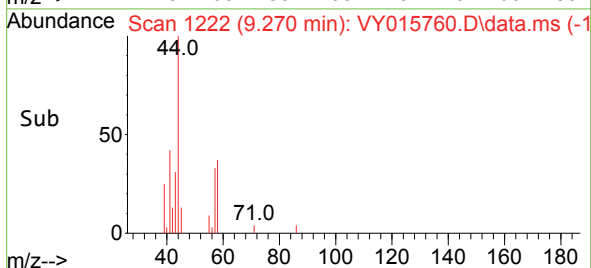
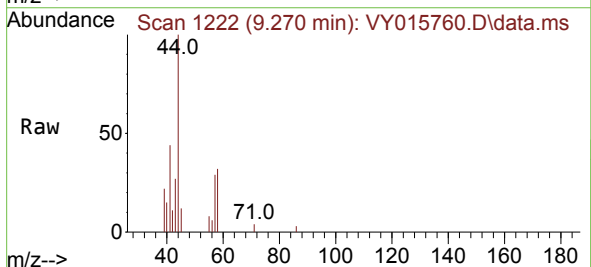


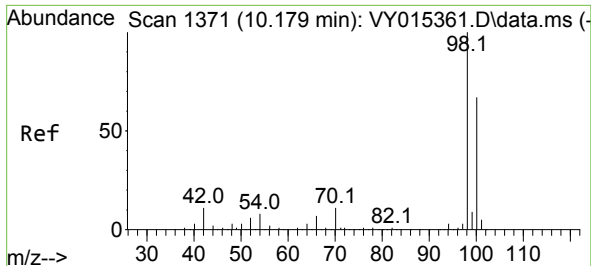
Tgt Ion:117 Resp: 13460
Ion Ratio Lower Upper
117 100
119 6.3 76.4 114.6#
121 0.0 25.8 38.6#



#48
Methyl methacrylate
Concen: 1.355 ug/l
RT: 9.270 min Scan# 1222
Delta R.T. -0.019 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Tgt Ion: 41 Resp: 2019
Ion Ratio Lower Upper
41 100
69 0.0 64.5 96.7#
39 50.7 50.8 76.2#

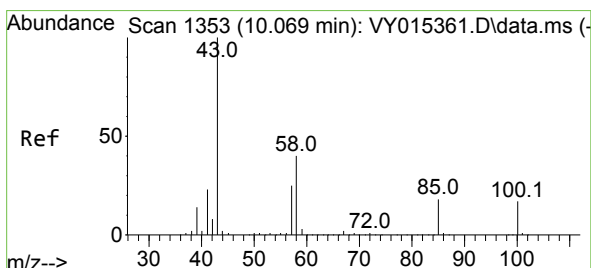
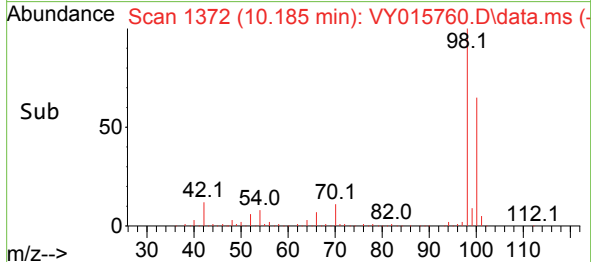
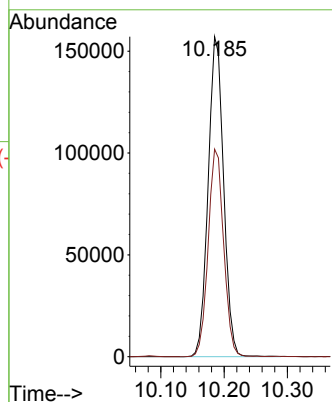
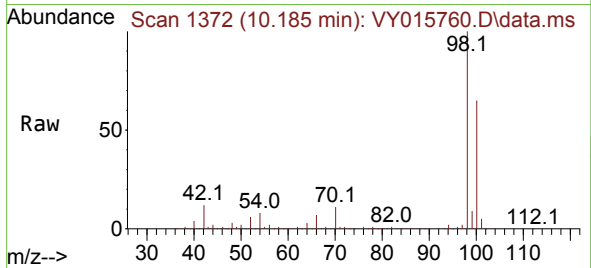




#50
Toluene-d8
Concen: 58.409 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

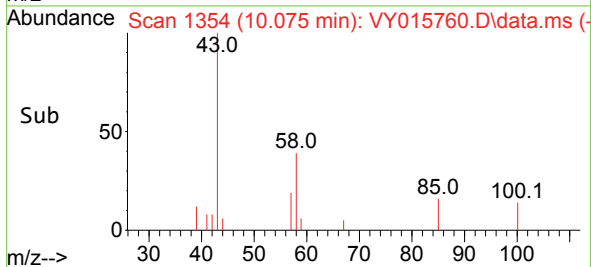
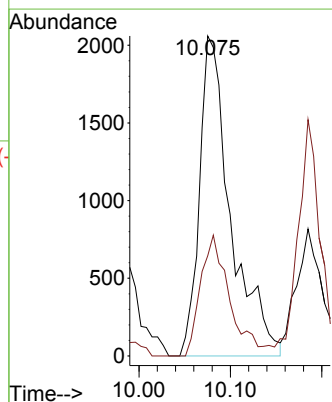
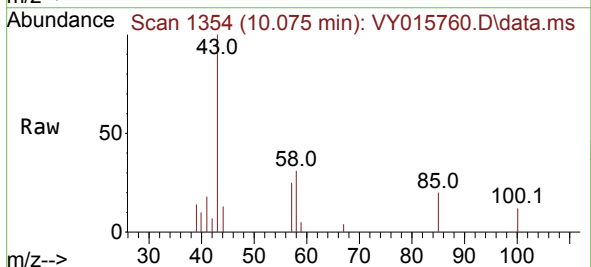
Instrument :
MSVOA_Y
ClientSampleId :

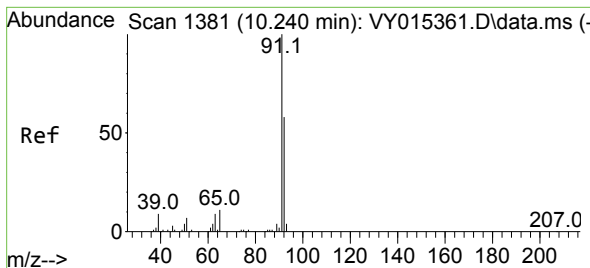
Tgt Ion: 98 Resp: 266913
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 2.316 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Tgt Ion: 43 Resp: 4875
Ion Ratio Lower Upper
43 100
58 35.0 29.0 43.6





#52

Toluene

Concen: 6.303 ug/l

RT: 10.252 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

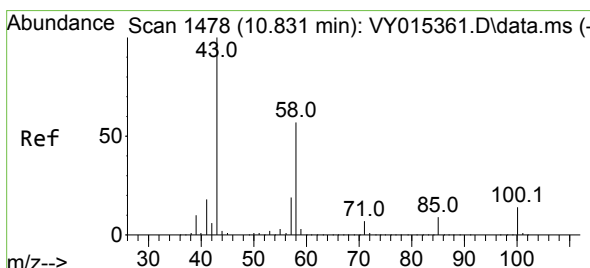
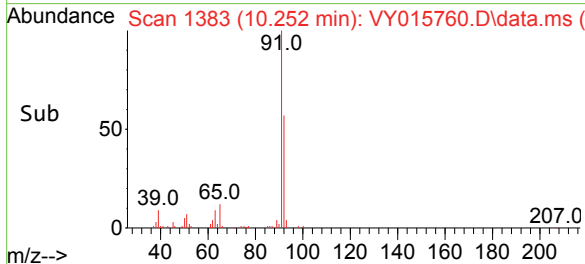
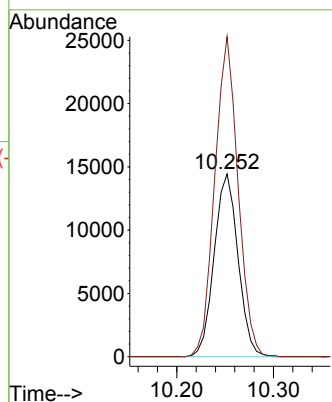
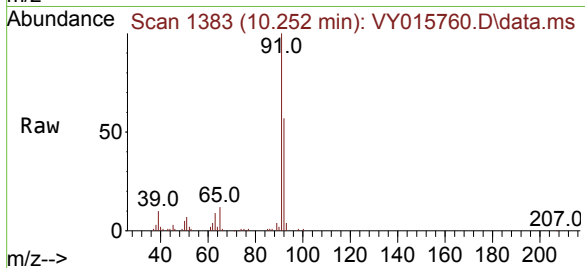
ClientSampleId :

Tgt Ion: 92 Resp: 24693

Ion Ratio Lower Upper

92 100

91 171.0 143.8 215.6



#59

2-Hexanone

Concen: 1.978 ug/l

RT: 10.843 min Scan# 1480

Delta R.T. 0.012 min

Lab File: VY015760.D

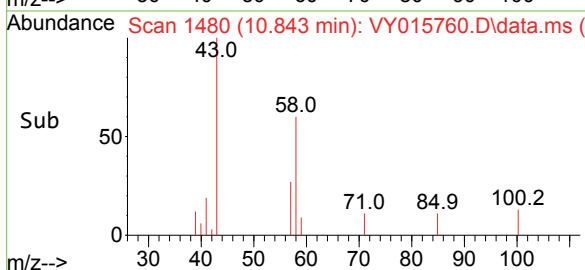
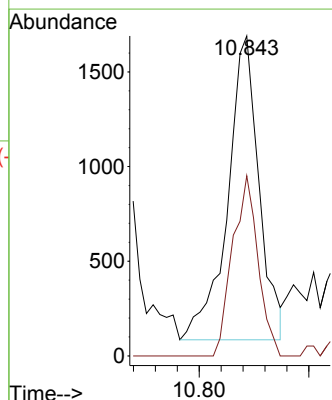
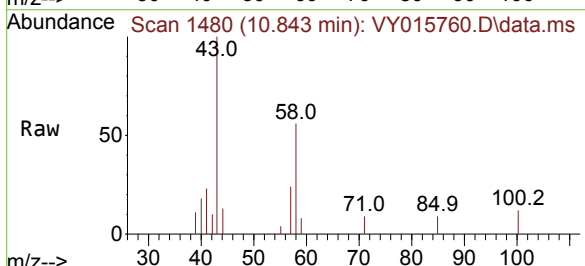
Acq: 29 Sep 2023 17:52

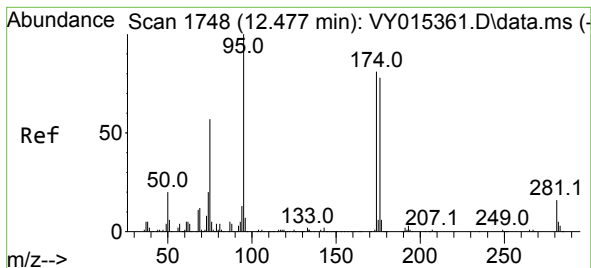
Tgt Ion: 43 Resp: 3193

Ion Ratio Lower Upper

43 100

58 48.0 25.1 75.3

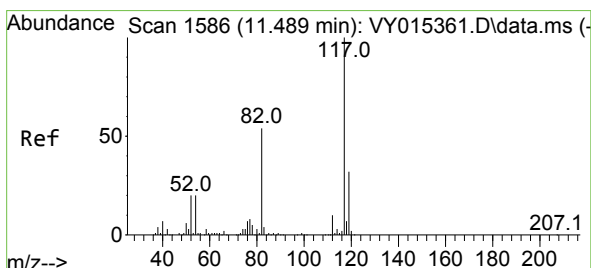
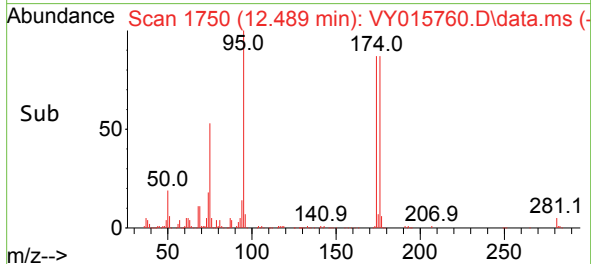
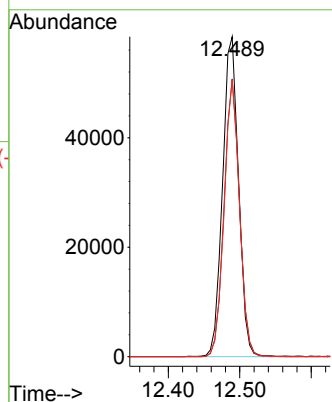
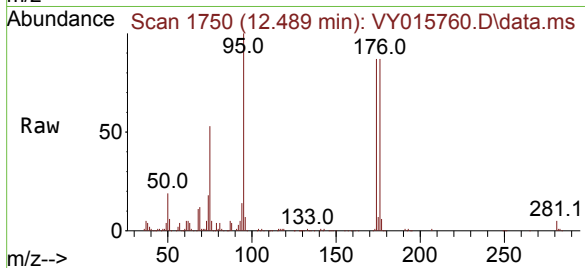




#62
4-Bromofluorobenzene
Concen: 50.633 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.012 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

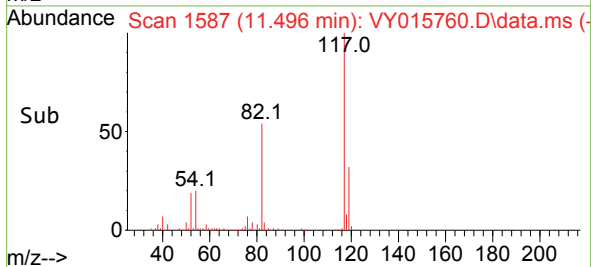
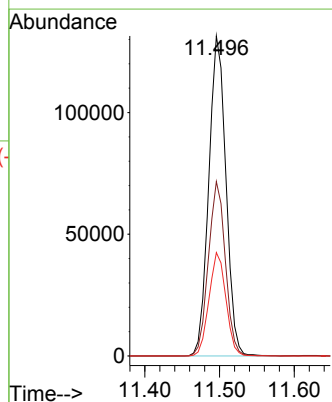
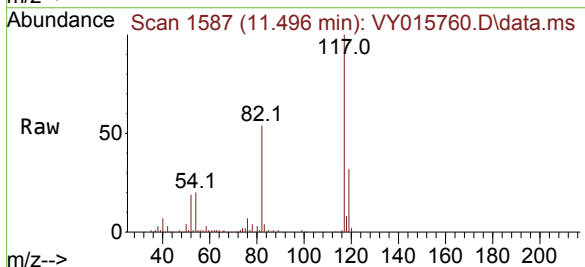
Instrument :
MSVOA_Y
ClientSampleId :

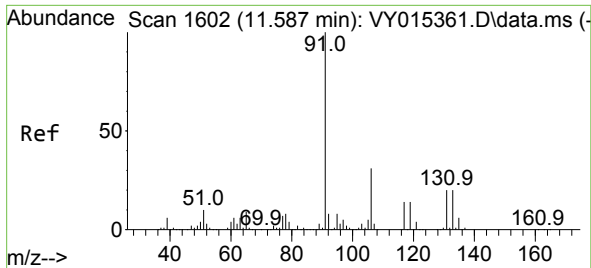
Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	178.2
176	82.5	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.007 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.0
119	32.3	26.3	39.5





#67

Ethyl Benzene

Concen: 1.766 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.012 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

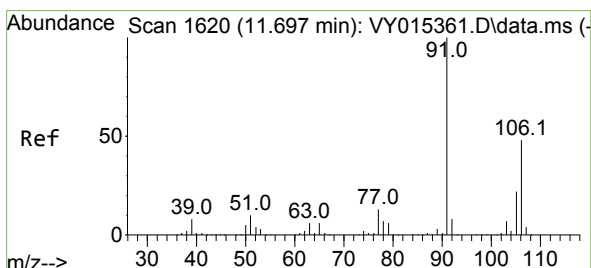
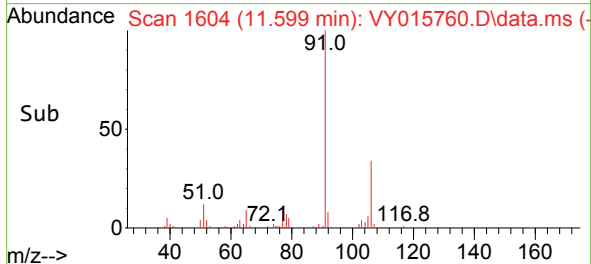
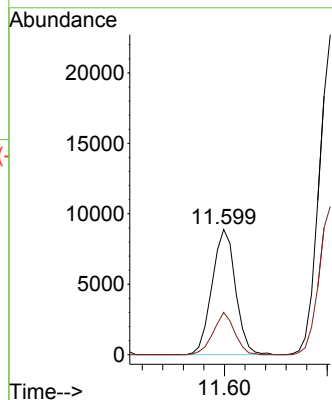
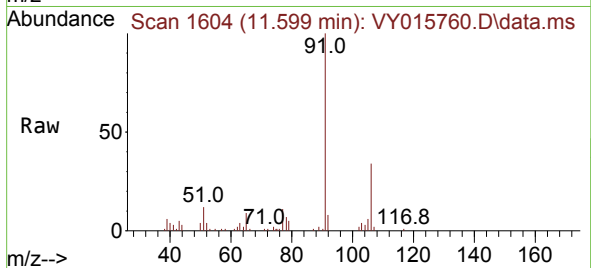
ClientSampleId :

Tgt Ion: 91 Resp: 14117

Ion Ratio Lower Upper

91 100

106 33.7 24.6 36.8



#68

m/p-Xylenes

Concen: 6.633 ug/l

RT: 11.709 min Scan# 1622

Delta R.T. 0.006 min

Lab File: VY015760.D

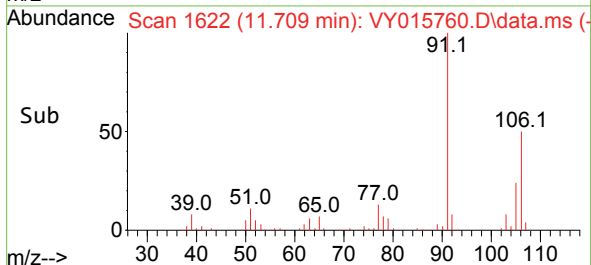
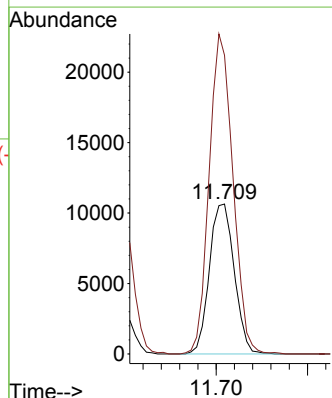
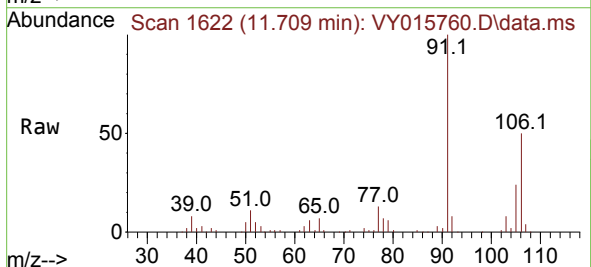
Acq: 29 Sep 2023 17:52

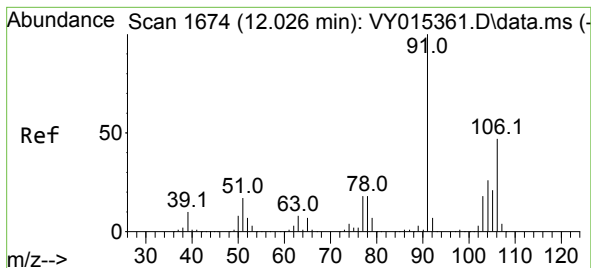
Tgt Ion:106 Resp: 20151

Ion Ratio Lower Upper

106 100

91 203.9 166.1 249.1





#69

o-Xylene

Concen: 2.171 ug/l

RT: 12.038 min Scan# 1

Delta R.T. 0.012 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

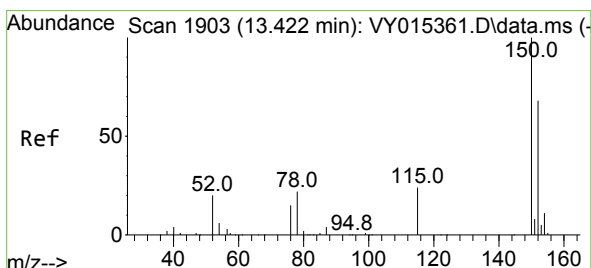
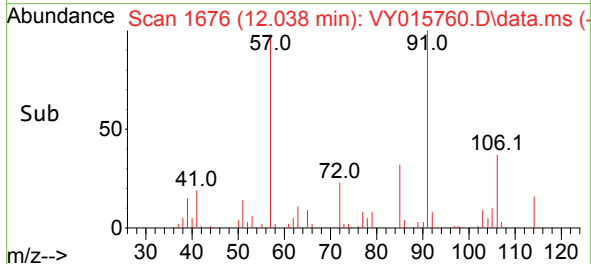
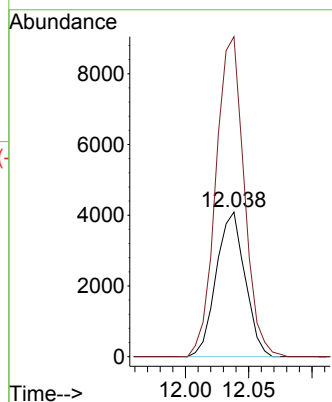
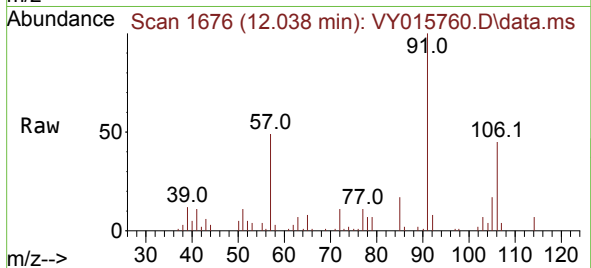
ClientSampleId :

Tgt Ion:106 Resp: 6468

Ion Ratio Lower Upper

106 100

91 217.7 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.012 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

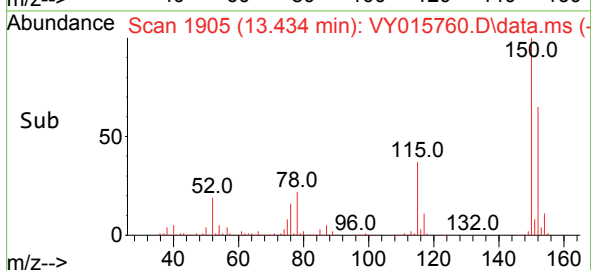
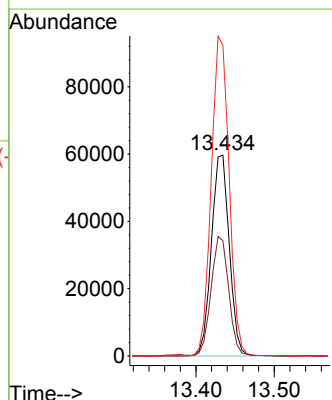
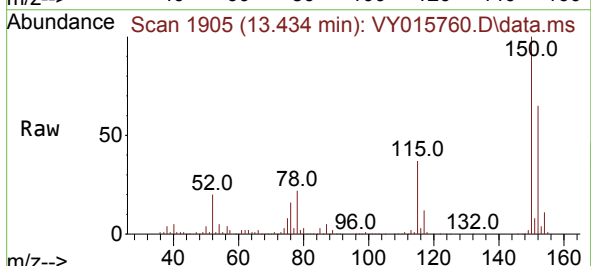
Tgt Ion:152 Resp: 94498

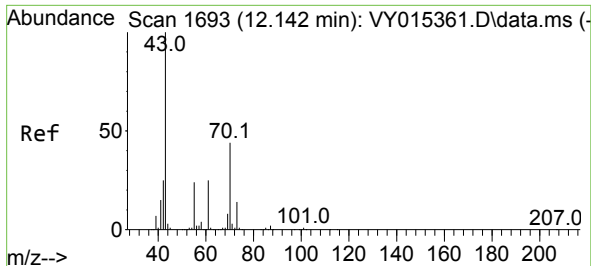
Ion Ratio Lower Upper

152 100

115 58.7 28.8 86.5

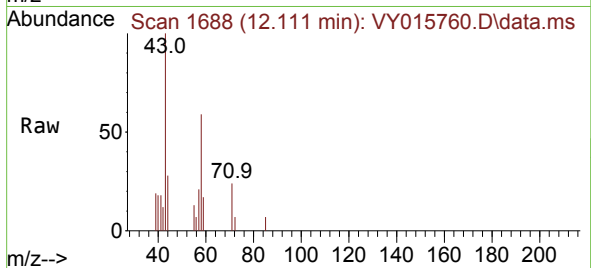
150 159.4 0.0 348.8



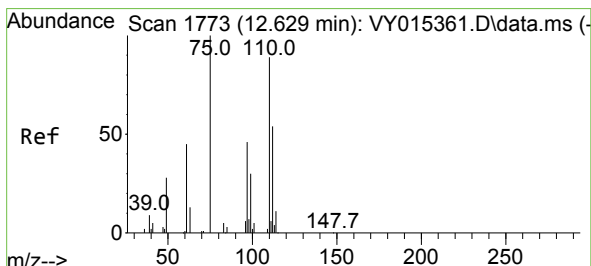
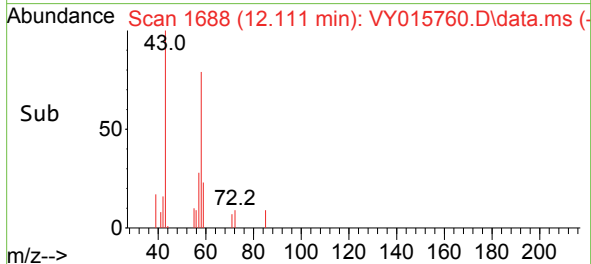
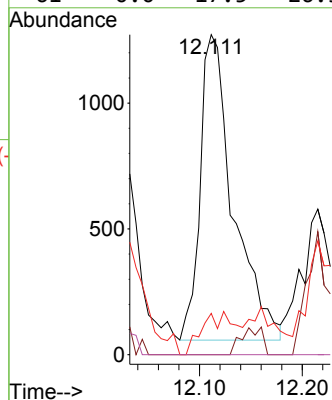


#74
N-amy1 acetate
Concen: 1.017 ug/l
RT: 12.111 min Scan# 1
Delta R.T. -0.031 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Instrument :
MSVOA_Y
ClientSampleId :

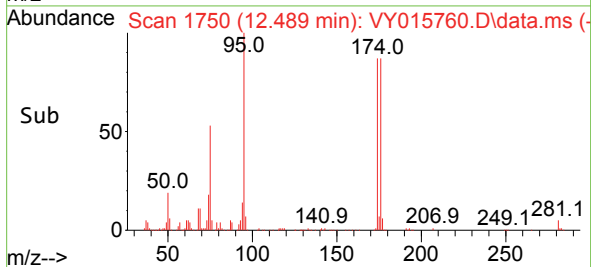
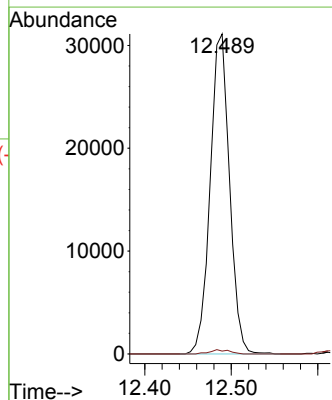
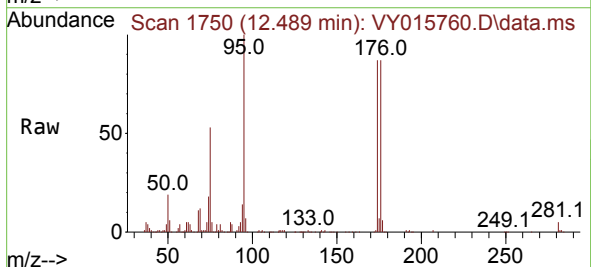


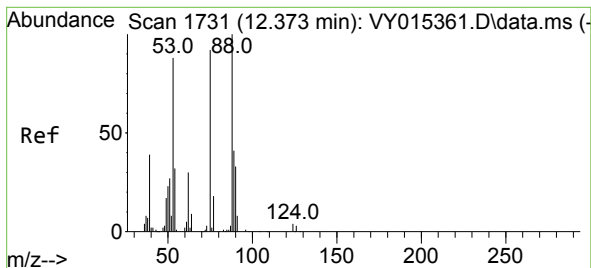
Tgt Ion: 43 Resp: 2710
Ion Ratio Lower Upper
43 100
70 0.0 29.7 44.5#
55 7.3 18.3 27.5#
61 0.0 17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 32.029 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.140 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Tgt Ion: 75 Resp: 48285
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

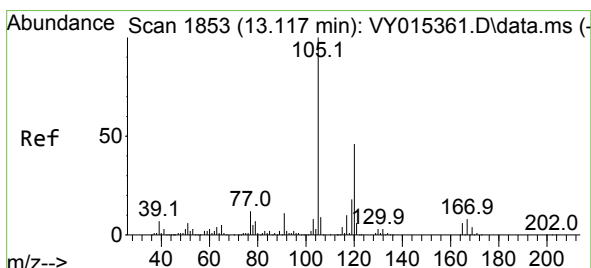
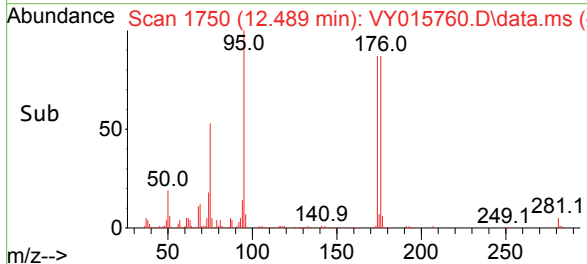
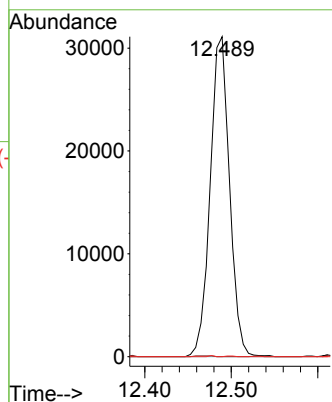
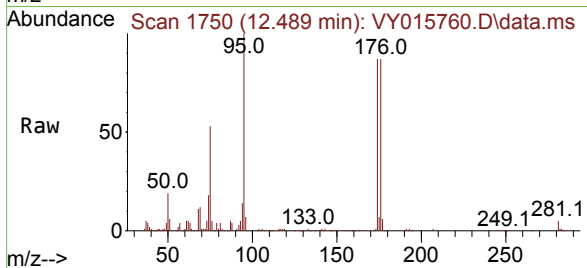




#81
trans-1,4-Dichloro-2-butene
Concen: 72.125 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.109 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

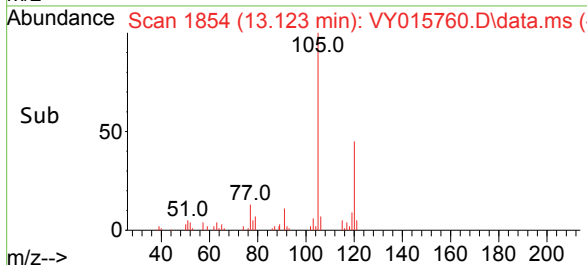
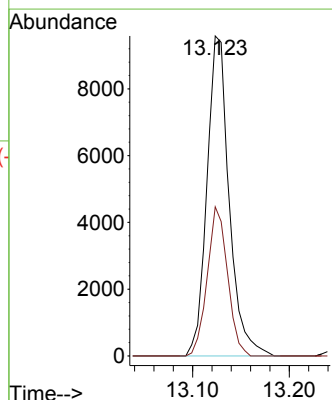
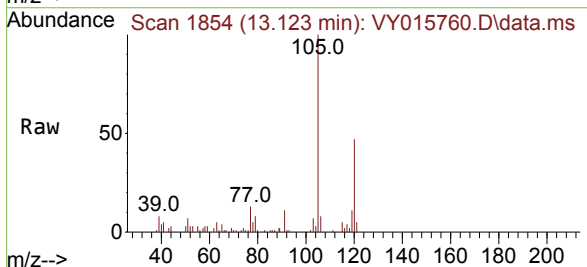
Instrument :
MSVOA_Y
ClientSampleId :

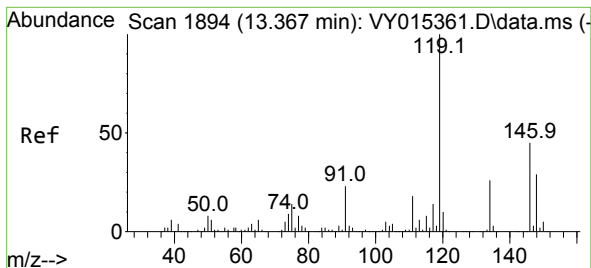
Tgt Ion: 75 Resp: 48285
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.1 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 2.576 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY015760.D
Acq: 29 Sep 2023 17:52

Tgt Ion: 105 Resp: 15298
Ion Ratio Lower Upper
105 100
120 42.6 22.2 66.6





#86

p-Isopropyltoluene

Concen: 1.292 ug/l

RT: 13.380 min Scan# 119

Delta R.T. 0.012 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Instrument :

MSVOA_Y

ClientSampleId :

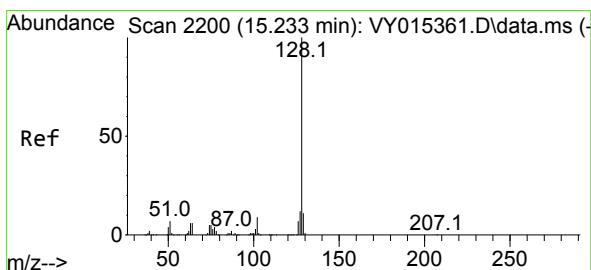
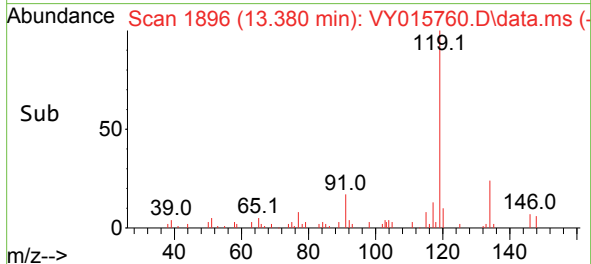
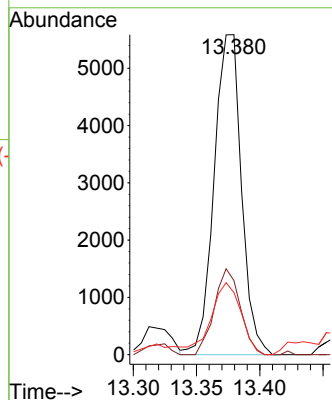
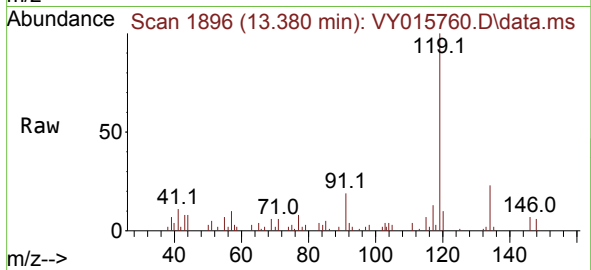
Tgt Ion:119 Resp: 8395

Ion Ratio Lower Upper

119 100

134 25.4 13.3 39.8

91 24.3 12.4 37.4



#95

Naphthalene

Concen: 3.901 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. 0.006 min

Lab File: VY015760.D

Acq: 29 Sep 2023 17:52

Tgt Ion:128 Resp: 20407

Ion Ratio Lower Upper

128 100

127 13.6 10.8 16.2

129 11.8 8.6 13.0

