

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092623\
 Data File : VY015712.D
 Acq On : 26 Sep 2023 16:46
 Operator : SY/MD
 Sample : 04614-03
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 27 01:33:54 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)

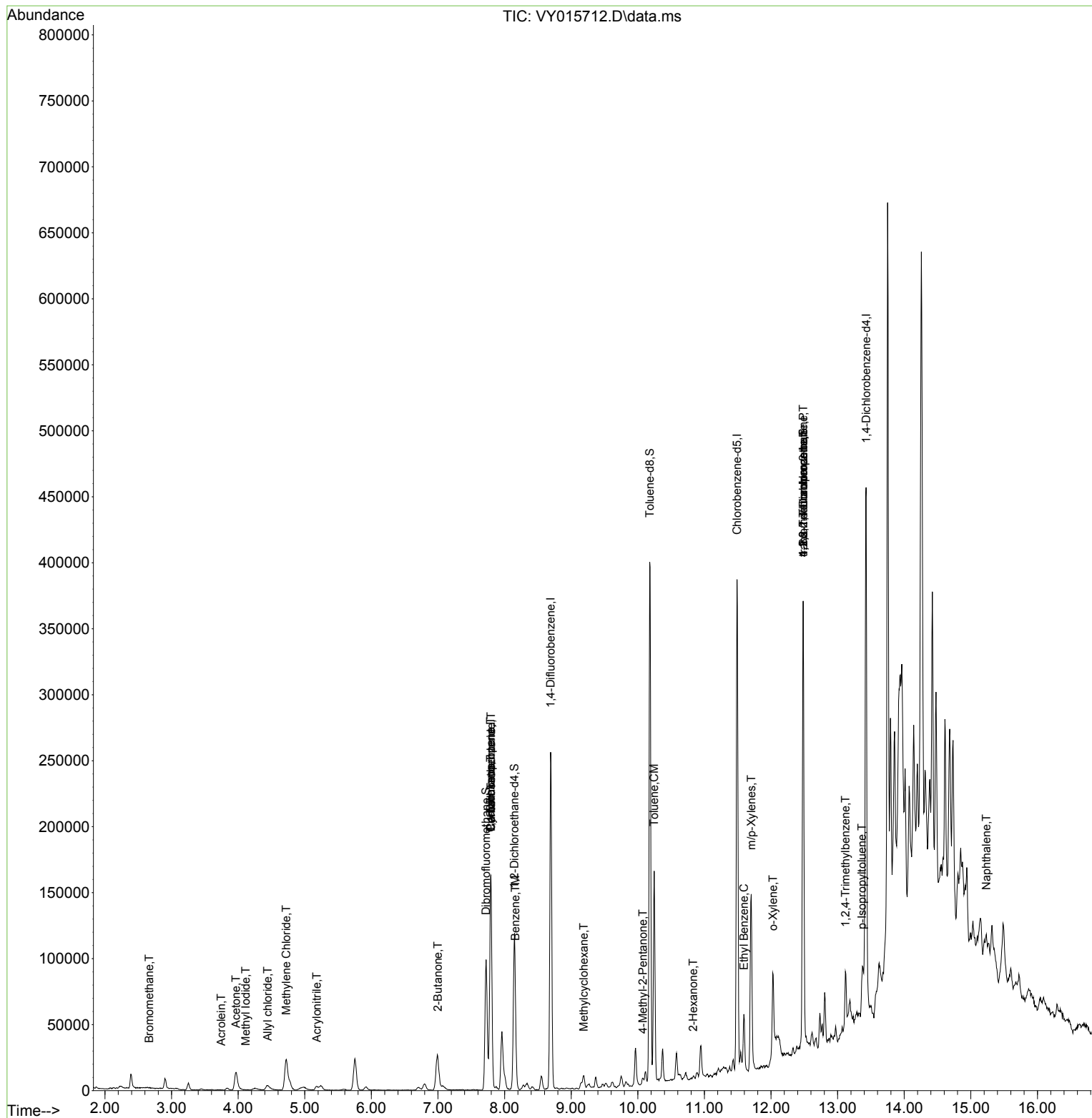
Internal Standards						
1) Pentafluorobenzene	7.795	168	123608	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.691	114	217617	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	206362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	100646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	83192	61.169	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.340%	
35) Dibromofluoromethane	7.722	113	69799	53.588	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.180%	
50) Toluene-d8	10.179	98	263834	59.740	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 119.480%	
62) 4-Bromofluorobenzene	12.483	95	96582	55.727	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 111.460%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.662	94	240	2.752	ug/l	90
10) Methyl Iodide	4.113	142	31	2.749	ug/l #	38
11) Tert butyl alcohol	4.984	59	7261	Below Cal	#	89
13) Acrolein	3.747	56	225	1.080	ug/l #	41
14) Allyl chloride	4.442	41	7494	3.769	ug/l #	33
15) Acrylonitrile	5.180	53	4274	6.932	ug/l #	93
16) Acetone	3.966	43	28491	39.145	ug/l	93
20) Methylene Chloride	4.722	84	16766	6.287	ug/l	93
25) 2-Butanone	6.996	43	8171	7.943	ug/l #	87
31) Cyclohexane	7.789	56	5179	2.749	ug/l #	30
36) 1,1-Dichloropropene	7.789	75	9797	5.087	ug/l #	51
38) Carbon Tetrachloride	7.795	117	12309	5.888	ug/l #	16
39) Methylcyclohexane	9.191	83	4092	1.921	ug/l	90
40) Benzene	8.161	78	16034	2.730	ug/l	92
51) 4-Methyl-2-Pentanone	10.075	43	3556	1.748	ug/l #	81
52) Toluene	10.246	92	65652	17.339	ug/l	92
59) 2-Hexanone	10.831	43	2940	1.884	ug/l	79
67) Ethyl Benzene	11.593	91	28639	3.638	ug/l	100
68) m/p-Xylenes	11.703	106	41590	13.898	ug/l	92
69) o-Xylene	12.032	106	14500	4.941	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.483	83	2600	1.237	ug/l	75
76) 1,2,3-Trichloropropane	12.483	75	50077	31.188	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	50077	70.233	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	22895	3.620	ug/l	97
86) p-Isopropyltoluene	13.367	119	9978	1.442	ug/l	88
95) Naphthalene	15.233	128	17420	3.127	ug/l #	95

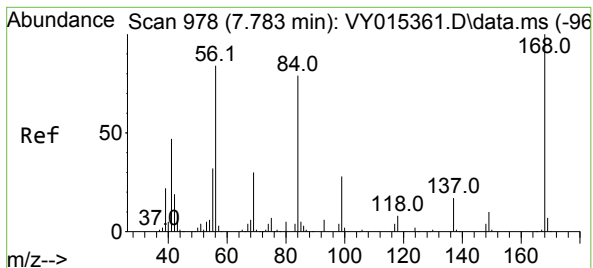
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 20 01:39:40 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.795 min Scan# 91

Delta R.T. 0.012 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

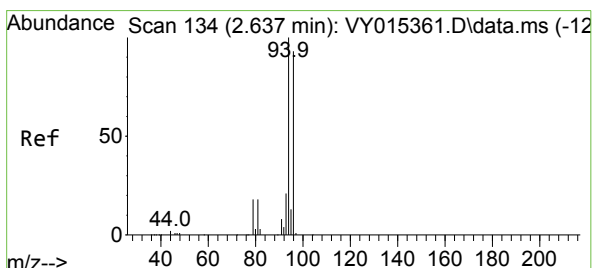
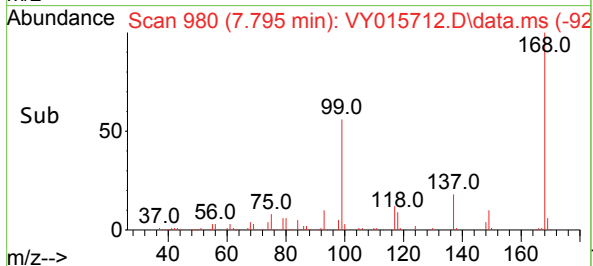
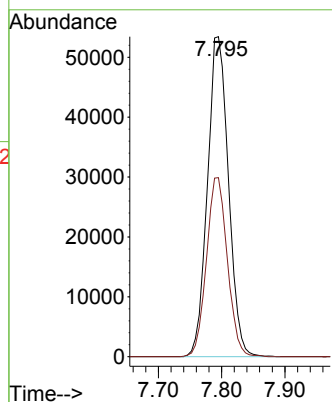
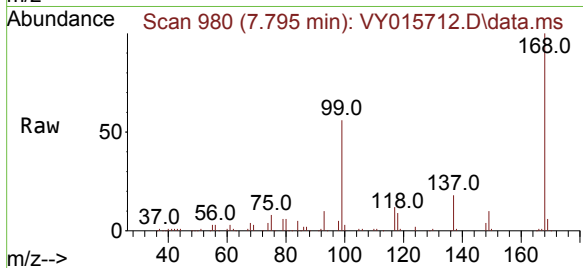
ClientSampleId :

Tgt Ion:168 Resp: 123608

Ion Ratio Lower Upper

168 100

99 55.9 43.4 65.0



#5

Bromomethane

Concen: 2.752 ug/l

RT: 2.662 min Scan# 138

Delta R.T. 0.025 min

Lab File: VY015712.D

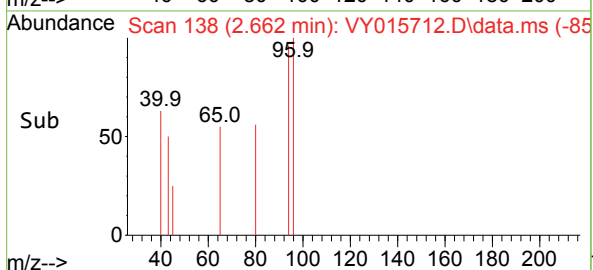
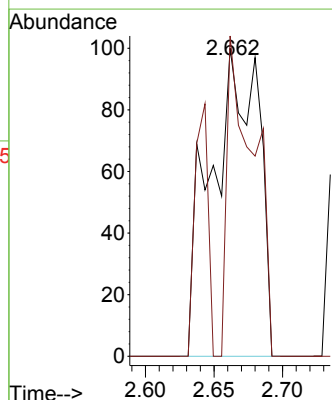
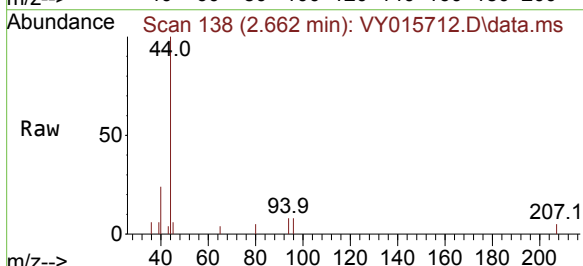
Acq: 26 Sep 2023 16:46

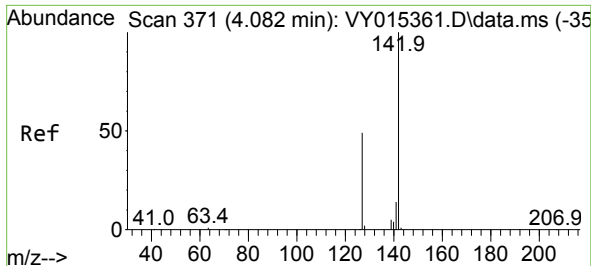
Tgt Ion: 94 Resp: 240

Ion Ratio Lower Upper

94 100

96 104.0 75.8 113.6





#10

Methyl Iodide

Concen: 2.749 ug/l

RT: 4.113 min Scan# 31

Delta R.T. 0.031 min

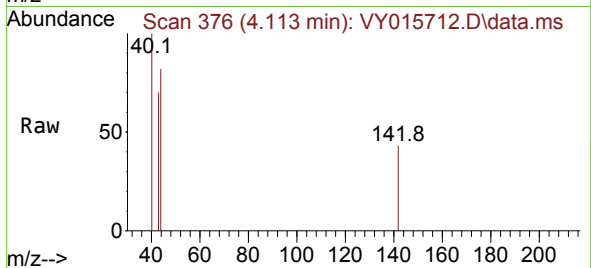
Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :



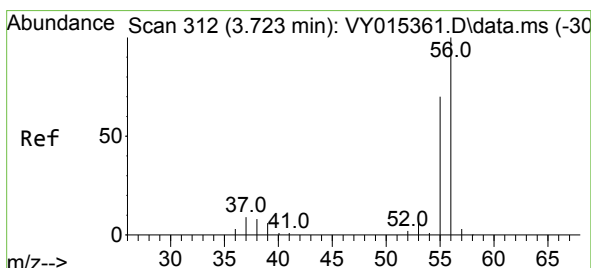
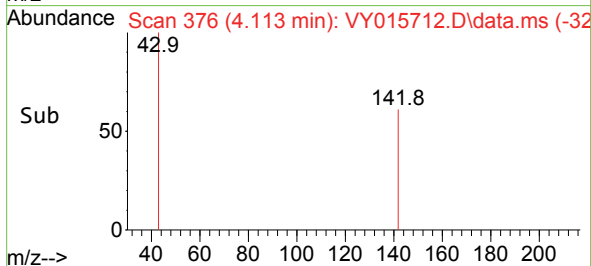
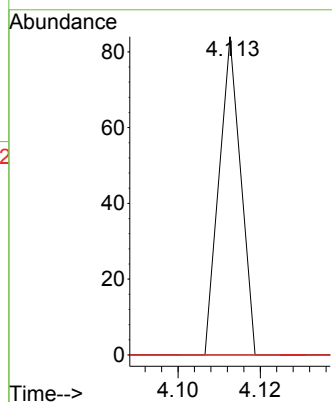
Tgt Ion:142 Resp: 31

Ion Ratio Lower Upper

142 100

127 0.0 37.6 56.4#

141 0.0 11.8 17.8#



#13

Acrolein

Concen: 1.080 ug/l

RT: 3.747 min Scan# 316

Delta R.T. 0.024 min

Lab File: VY015712.D

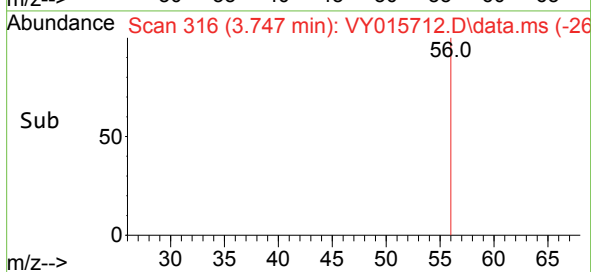
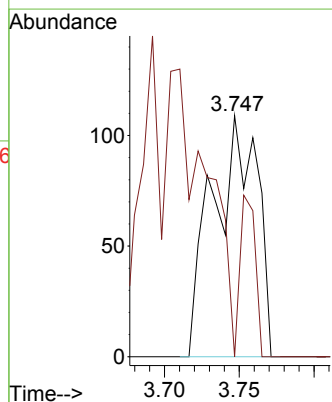
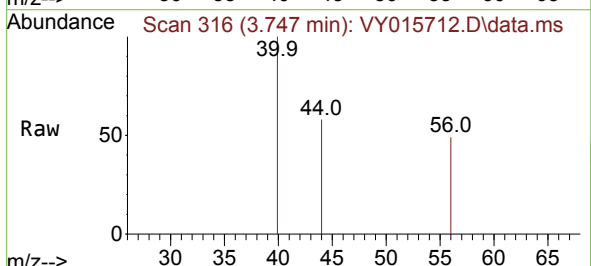
Acq: 26 Sep 2023 16:46

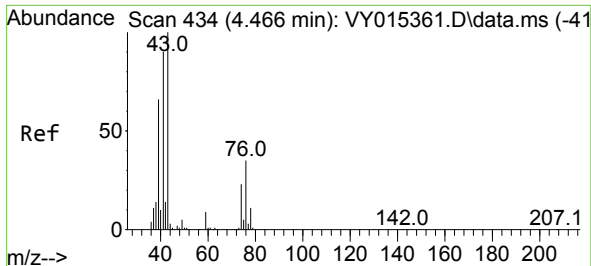
Tgt Ion: 56 Resp: 225

Ion Ratio Lower Upper

56 100

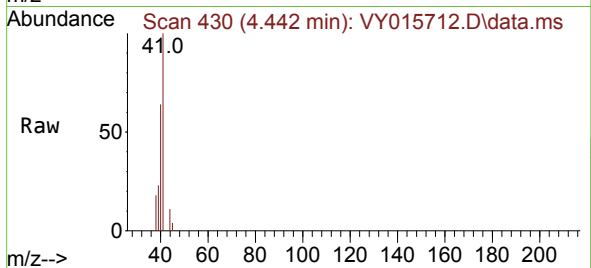
55 22.7 57.0 85.4#



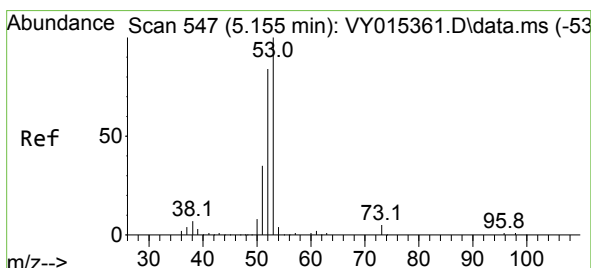
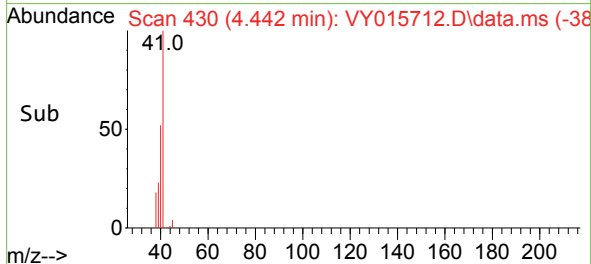
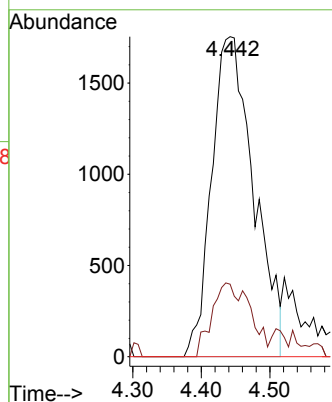


#14
 Allyl chloride
 Concen: 3.769 ug/l
 RT: 4.442 min Scan# 41
 Delta R.T. -0.030 min
 Lab File: VY015712.D
 Acq: 26 Sep 2023 16:46

Instrument :
 MSVOA_Y
 ClientSampleId :

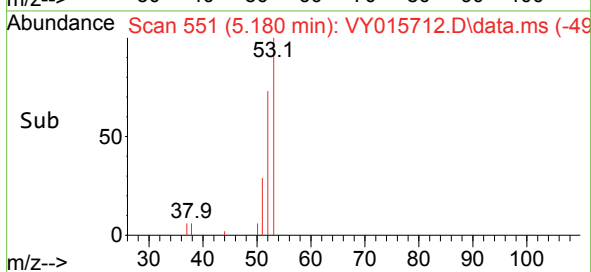
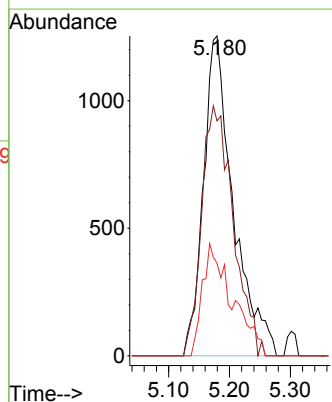
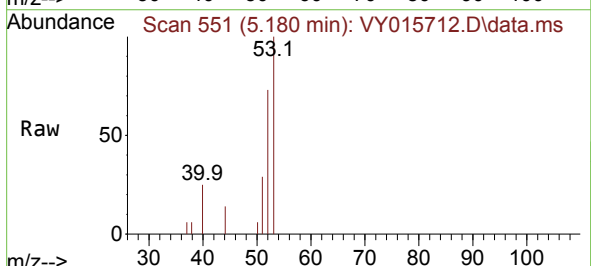


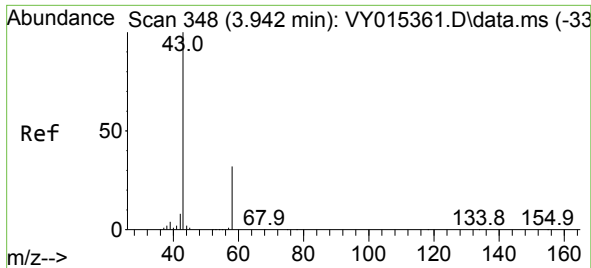
Tgt Ion: 41 Resp: 7494
 Ion Ratio Lower Upper
 41 100
 39 13.8 58.0 87.0#
 76 0.0 27.4 41.2#



#15
 Acrylonitrile
 Concen: 6.932 ug/l
 RT: 5.180 min Scan# 551
 Delta R.T. 0.019 min
 Lab File: VY015712.D
 Acq: 26 Sep 2023 16:46

Tgt Ion: 53 Resp: 4274
 Ion Ratio Lower Upper
 53 100
 52 82.5 66.9 100.3
 51 26.0 29.8 44.6#





#16

Acetone

Concen: 39.145 ug/l

RT: 3.966 min Scan# 3

Delta R.T. 0.024 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

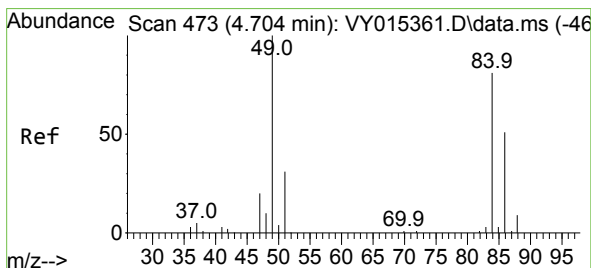
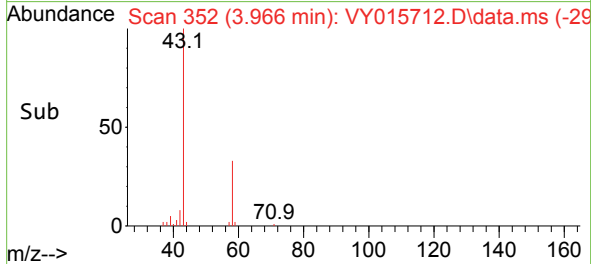
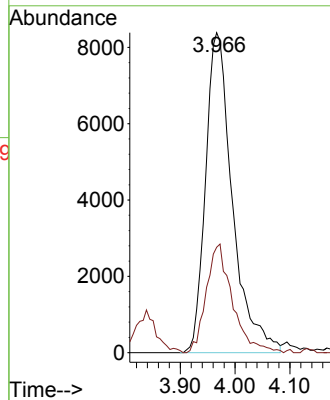
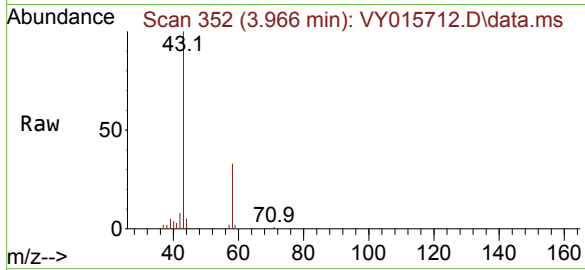
ClientSampleId :

Tgt Ion: 43 Resp: 28491

Ion Ratio Lower Upper

43 100

58 32.3 22.7 34.1



#20

Methylene Chloride

Concen: 6.287 ug/l

RT: 4.722 min Scan# 476

Delta R.T. 0.018 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Tgt Ion: 84 Resp: 16766

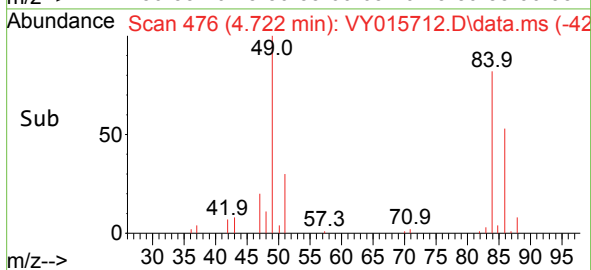
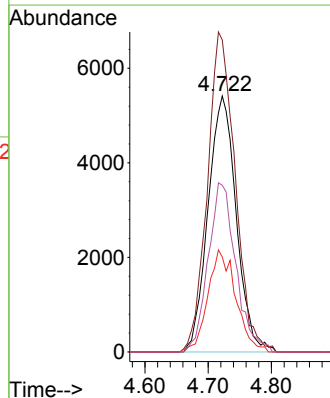
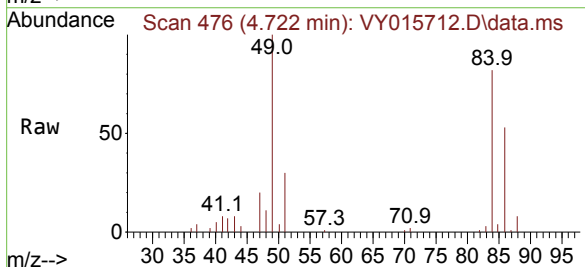
Ion Ratio Lower Upper

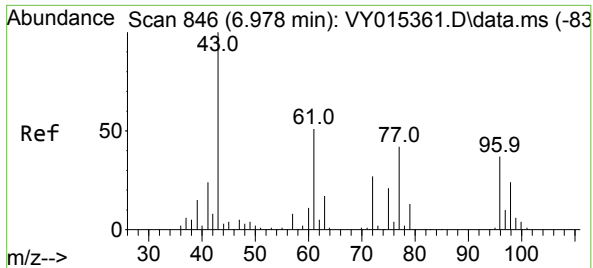
84 100

49 121.9 106.9 160.3

51 37.1 33.2 49.8

86 65.1 51.0 76.6

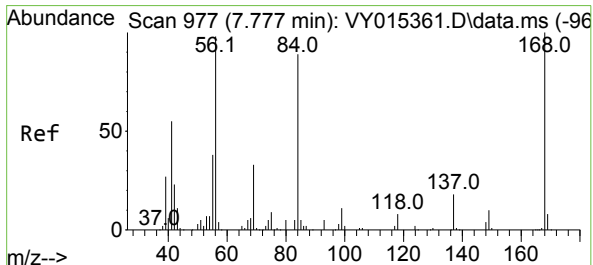
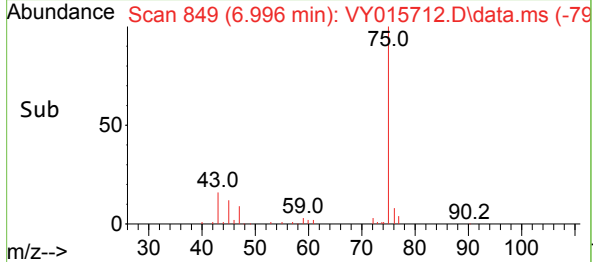
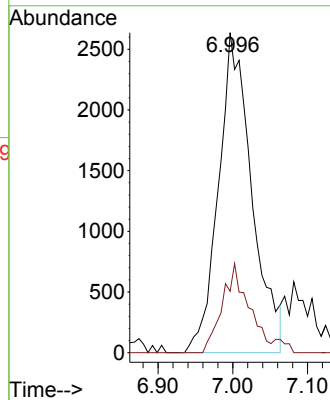
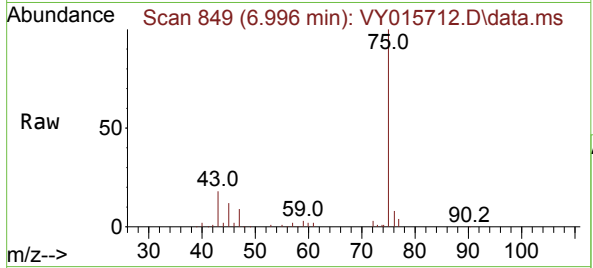




#25
2-Butanone
Concen: 7.943 ug/l
RT: 6.996 min Scan# 846
Delta R.T. 0.018 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

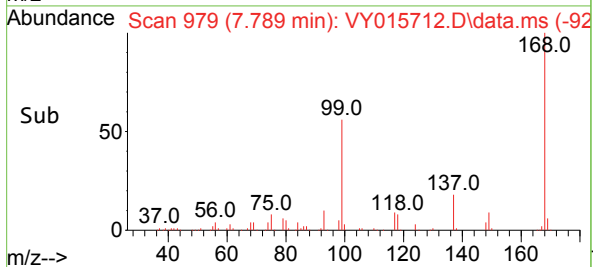
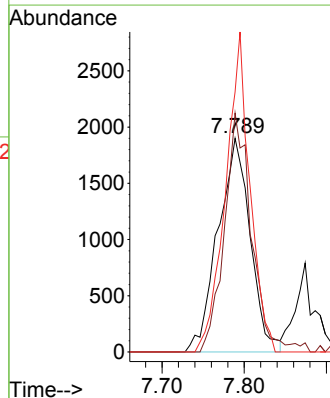
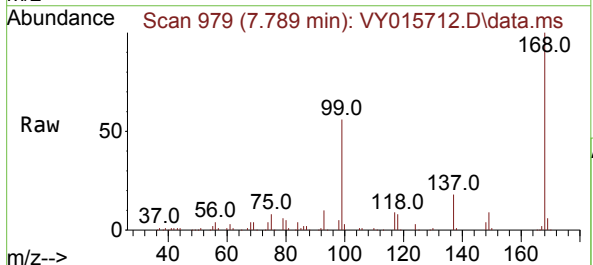
Instrument :
MSVOA_Y
ClientSampleId :

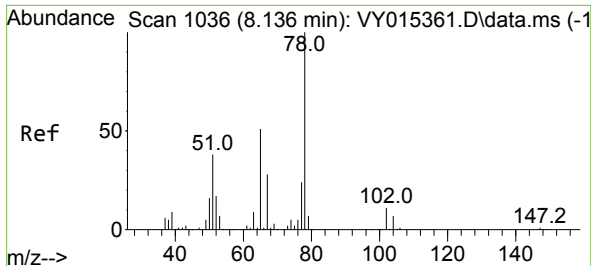
Tgt Ion: 43 Resp: 8171
Ion Ratio Lower Upper
43 100
72 19.2 20.5 30.7#



#31
Cyclohexane
Concen: 2.749 ug/l
RT: 7.789 min Scan# 979
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 56 Resp: 5179
Ion Ratio Lower Upper
56 100
69 111.8 27.8 41.6#
84 121.7 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 61.169 ug/l

RT: 8.149 min Scan# 110

Delta R.T. 0.013 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

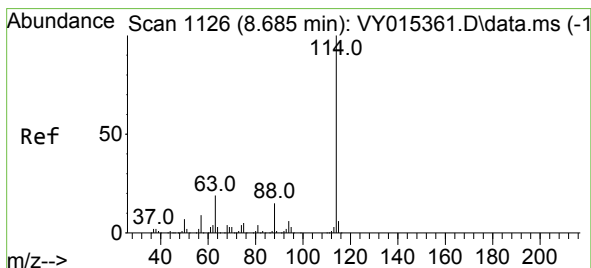
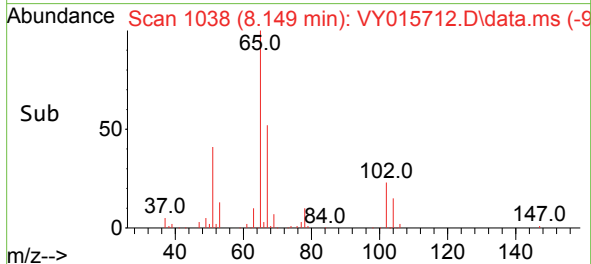
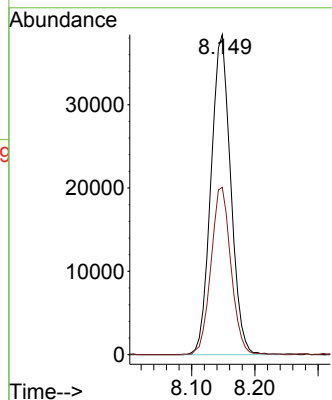
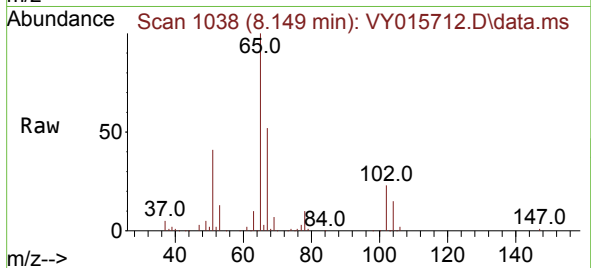
ClientSampleId :

Tgt Ion: 65 Resp: 83192

Ion Ratio Lower Upper

65 100

67 53.2 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

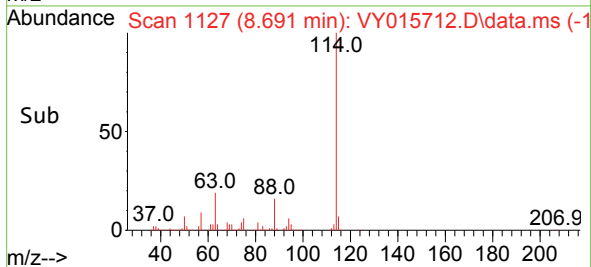
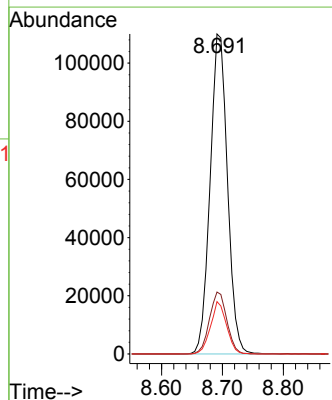
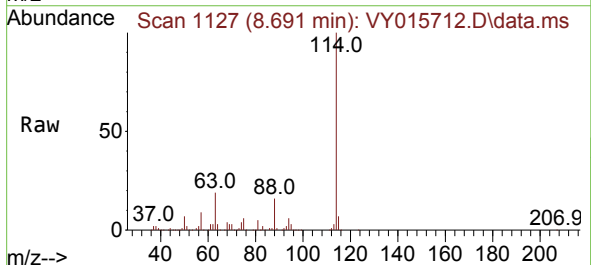
Tgt Ion: 114 Resp: 217617

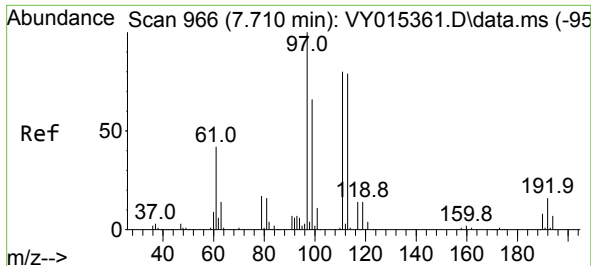
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 16.4 0.0 30.6

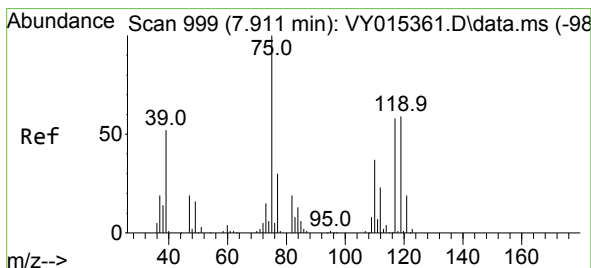
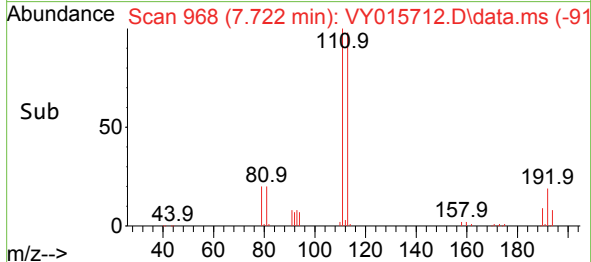
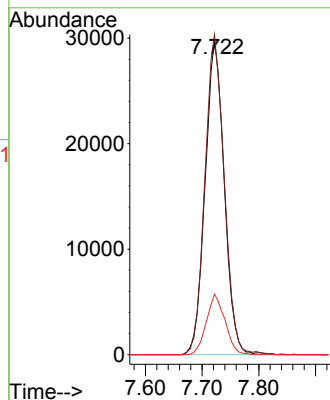
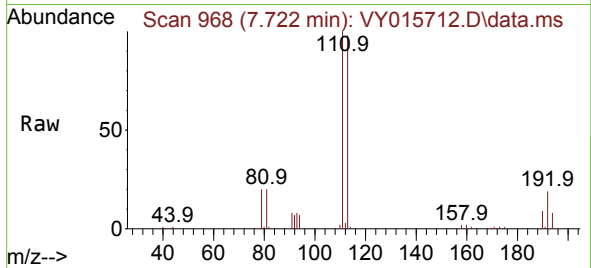




#35
Dibromofluoromethane
Concen: 53.588 ug/l
RT: 7.722 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

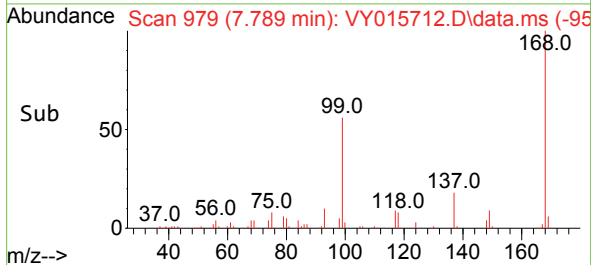
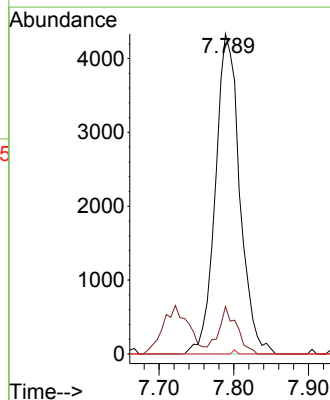
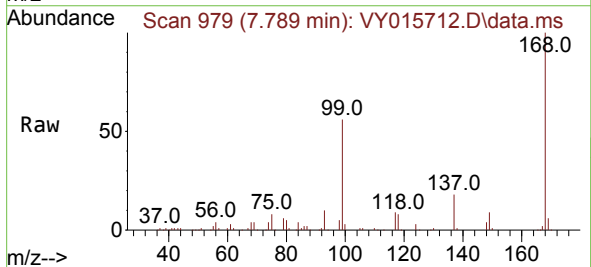
Instrument :
MSVOA_Y
ClientSampleId :

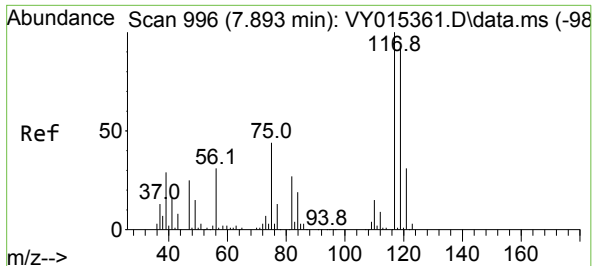
Tgt Ion:113 Resp: 69799
Ion Ratio Lower Upper
113 100
111 103.0 81.3 121.9
192 18.7 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.087 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

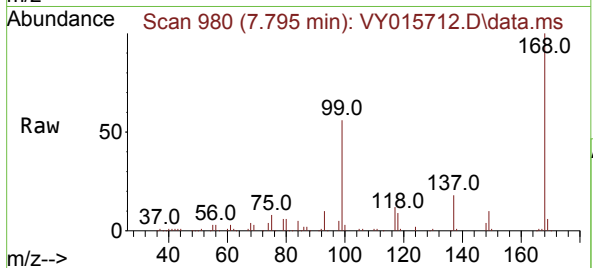
Tgt Ion: 75 Resp: 9797
Ion Ratio Lower Upper
75 100
110 11.0 17.8 53.5#
77 0.0 24.4 36.6#



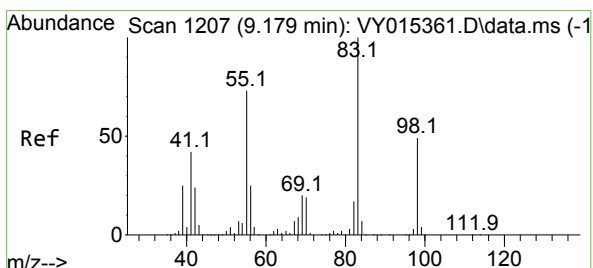
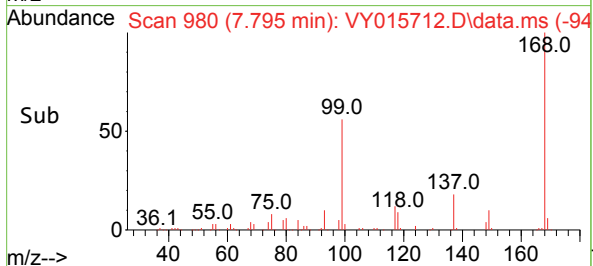
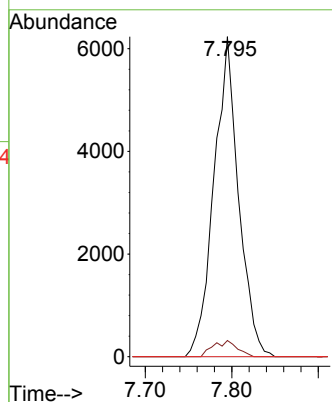


#38
Carbon Tetrachloride
Concen: 5.888 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.098 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Instrument :
MSVOA_Y
ClientSampleId :

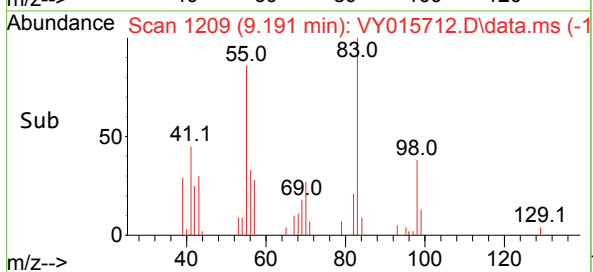
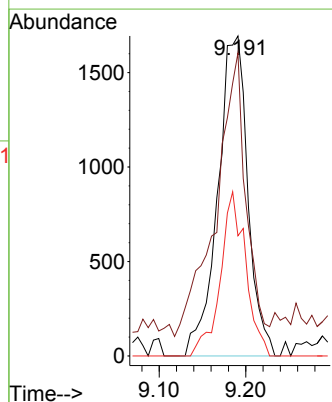
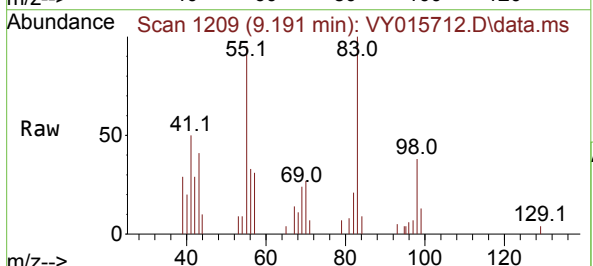


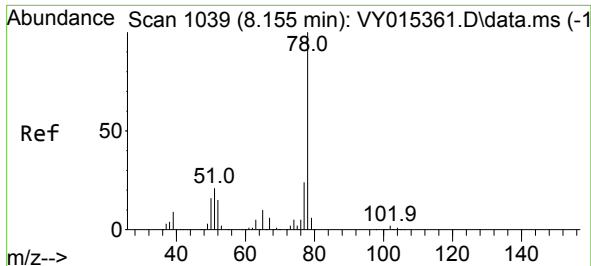
Tgt Ion:117 Resp: 12309
Ion Ratio Lower Upper
117 100
119 5.1 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 1.921 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. 0.012 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 83 Resp: 4092
Ion Ratio Lower Upper
83 100
55 84.8 63.0 94.4
98 37.5 37.4 56.2

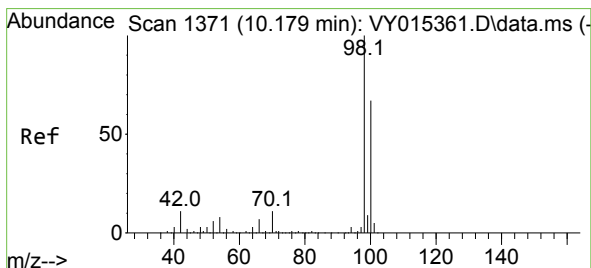
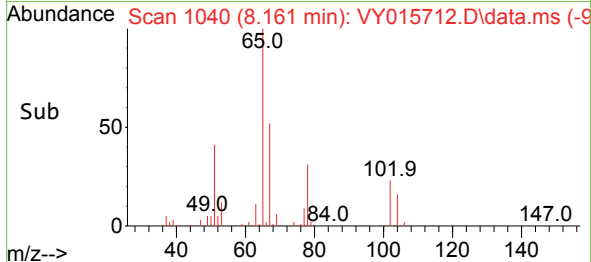
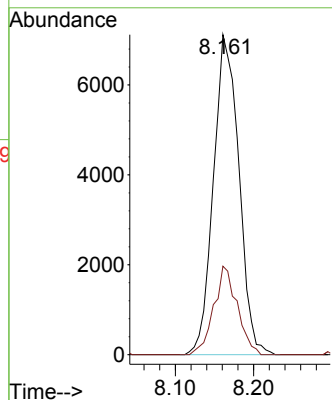
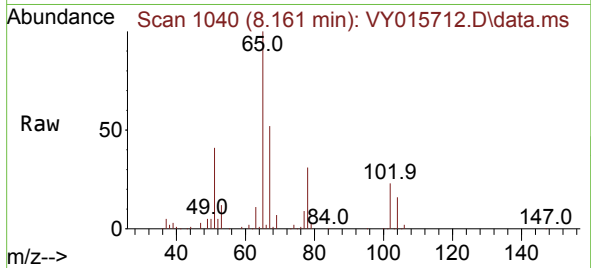




#40
Benzene
Concen: 2.730 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.012 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

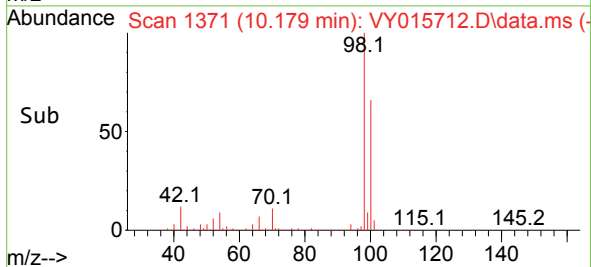
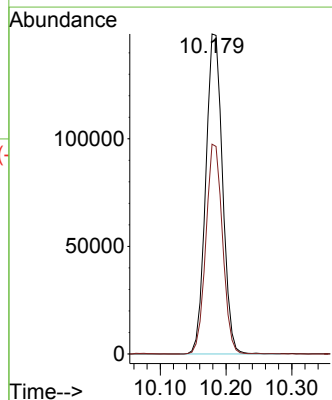
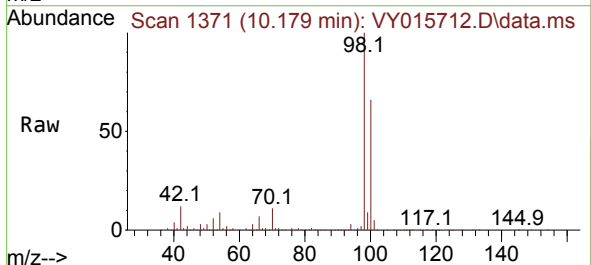
Instrument :
MSVOA_Y
ClientSampleId :

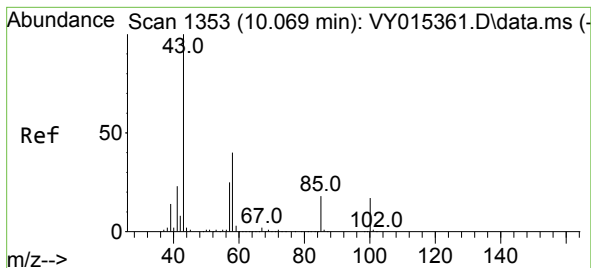
Tgt Ion: 78 Resp: 16034
Ion Ratio Lower Upper
78 100
77 27.6 19.0 28.6



#50
Toluene-d8
Concen: 59.740 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 98 Resp: 263834
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1

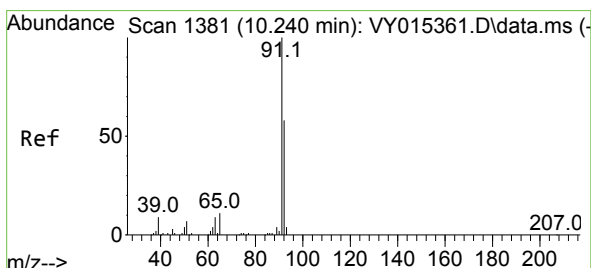
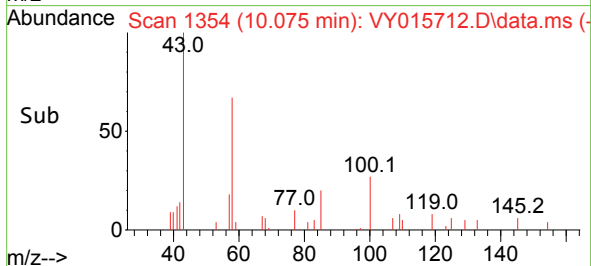
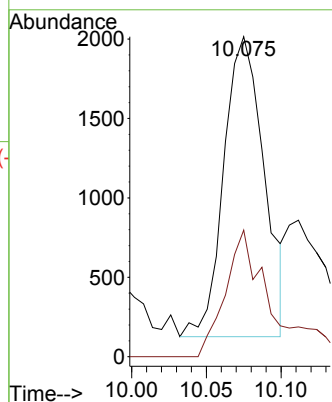
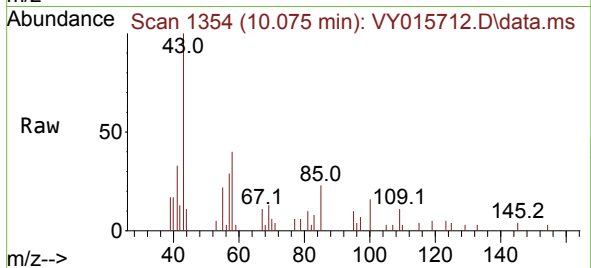




#51
4-Methyl-2-Pentanone
Concen: 1.748 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

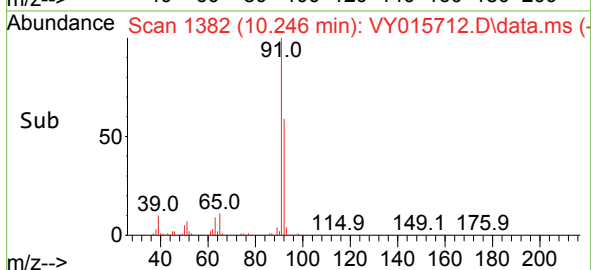
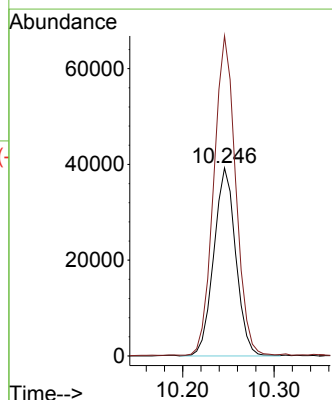
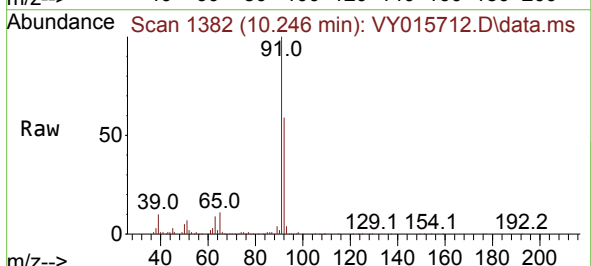
Instrument :
MSVOA_Y
ClientSampleId :

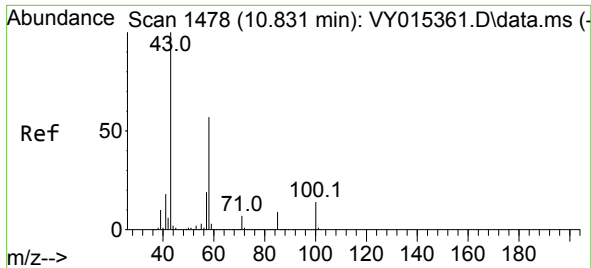
Tgt Ion: 43 Resp: 3556
Ion Ratio Lower Upper
43 100
58 47.5 29.0 43.6#



#52
Toluene
Concen: 17.339 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 92 Resp: 65652
Ion Ratio Lower Upper
92 100
91 168.9 143.8 215.6

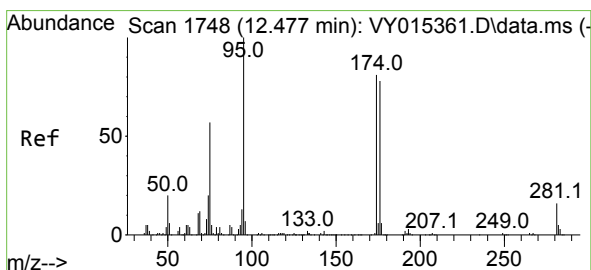
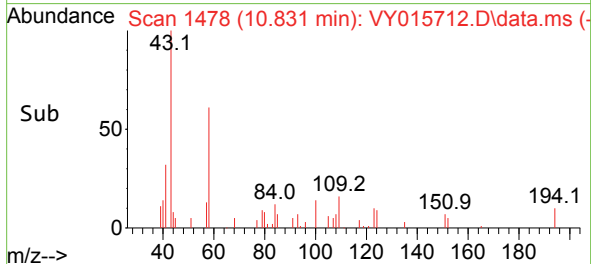
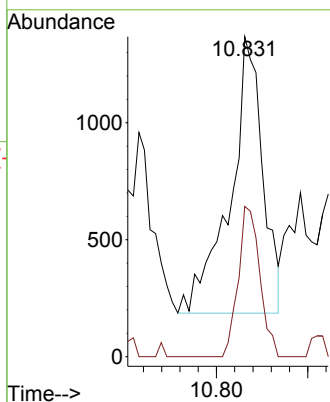
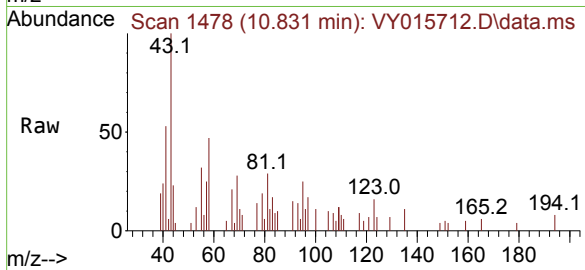




#59
2-Hexanone
Concen: 1.884 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

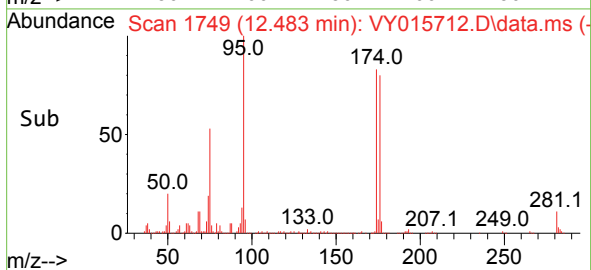
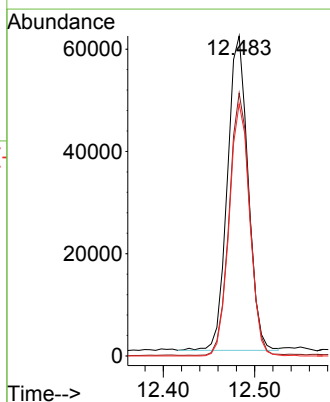
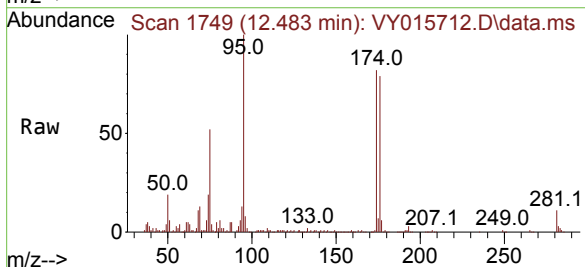
Instrument :
MSVOA_Y
ClientSampleId :

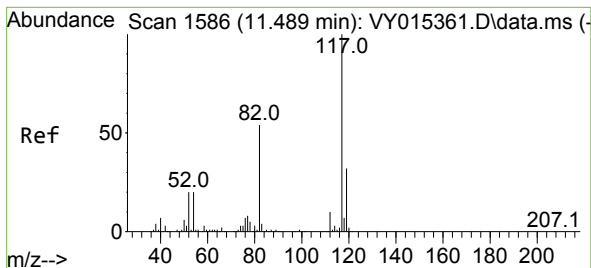
Tgt Ion: 43 Resp: 2940
Ion Ratio Lower Upper
43 100
58 35.8 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 55.727 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

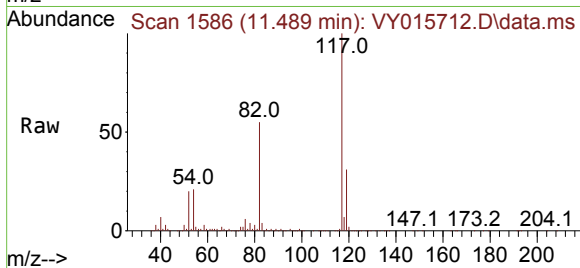
Tgt Ion: 95 Resp: 96582
Ion Ratio Lower Upper
95 100
174 82.5 0.0 178.2
176 79.7 0.0 173.8



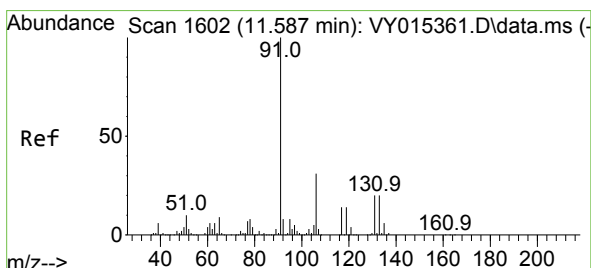
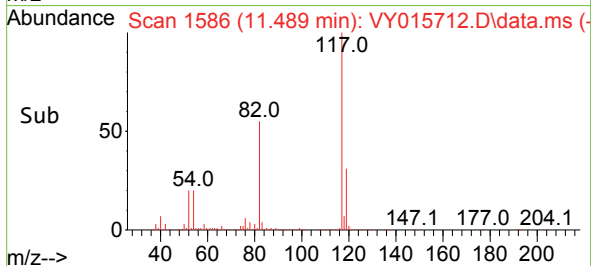
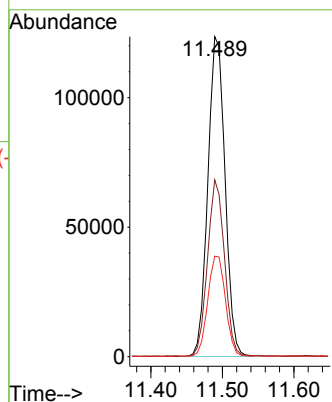


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Instrument :
MSVOA_Y
ClientSampleId :

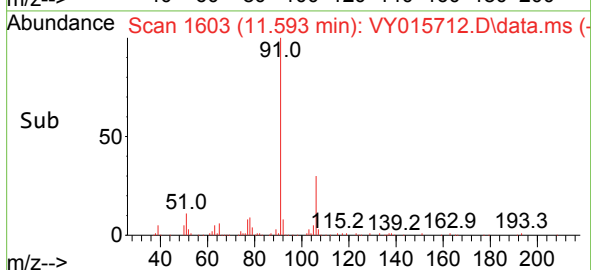
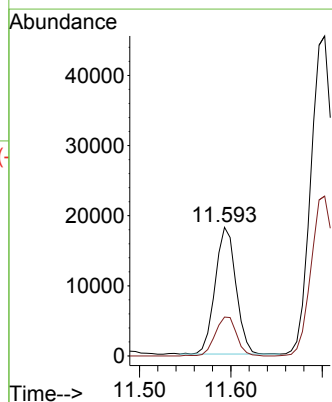
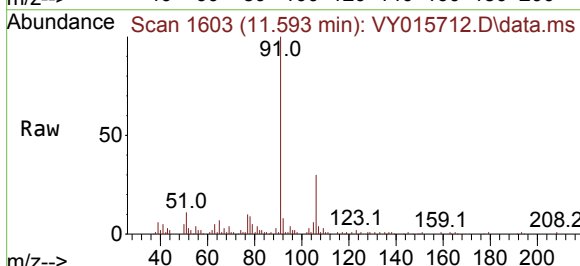


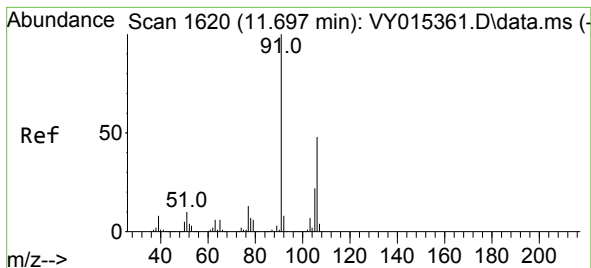
Tgt Ion:117 Resp: 206362
Ion Ratio Lower Upper
117 100
82 55.1 43.4 65.0
119 31.3 26.3 39.5



#67
Ethyl Benzene
Concen: 3.638 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion: 91 Resp: 28639
Ion Ratio Lower Upper
91 100
106 30.7 24.6 36.8

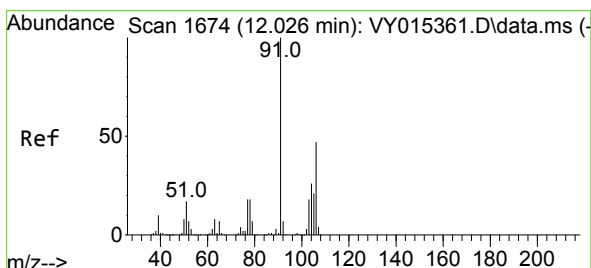
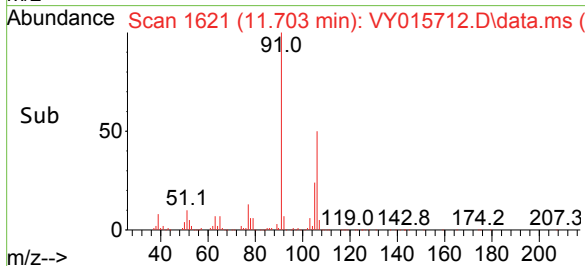
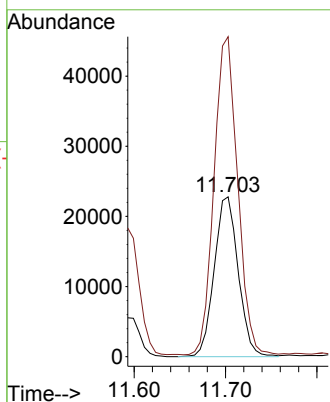
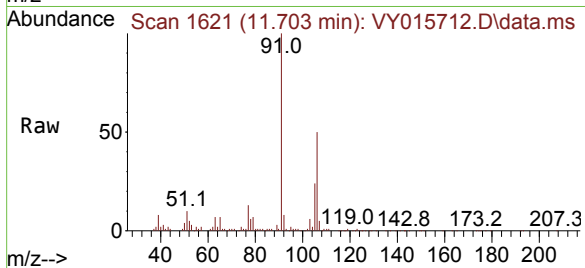




#68
m/p-Xylenes
Concen: 13.898 ug/l
RT: 11.703 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

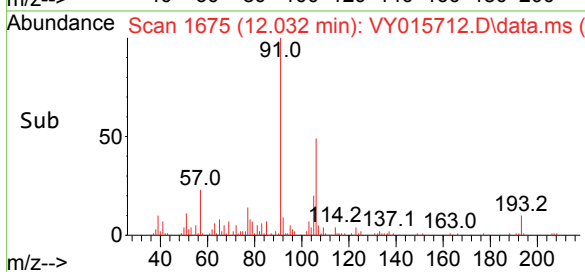
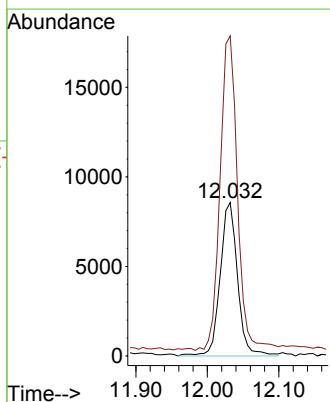
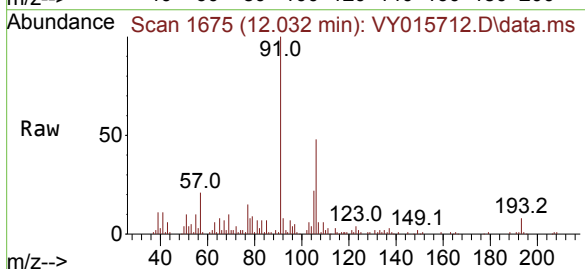
Instrument :
MSVOA_Y
ClientSampleId :

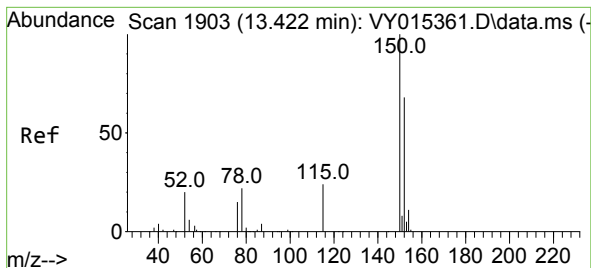
Tgt Ion:106 Resp: 41590
Ion Ratio Lower Upper
106 100
91 195.4 166.1 249.1



#69
o-Xylene
Concen: 4.941 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Tgt Ion:106 Resp: 14500
Ion Ratio Lower Upper
106 100
91 204.4 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

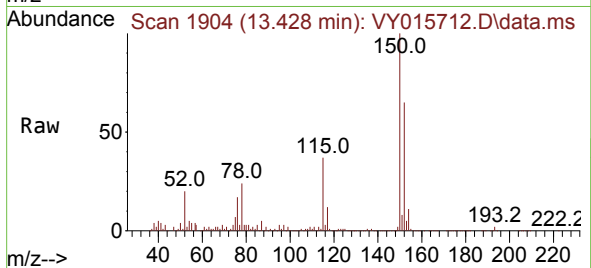
Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

ClientSampleId :



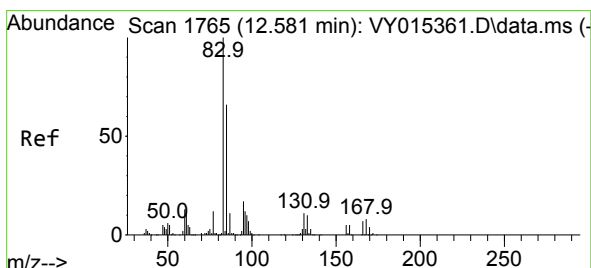
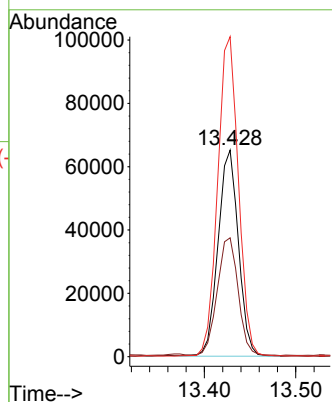
Tgt Ion:152 Resp: 100646

Ion Ratio Lower Upper

152 100

115 58.9 28.8 86.5

150 157.7 0.0 348.8



#75

1,1,2,2-Tetrachloroethane

Concen: 1.237 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.098 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

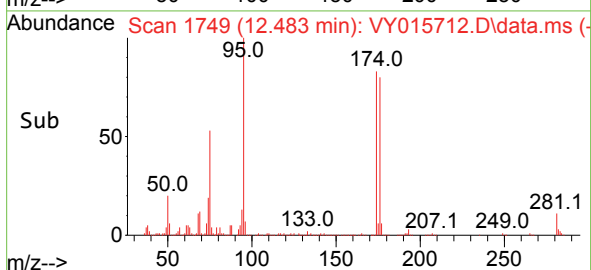
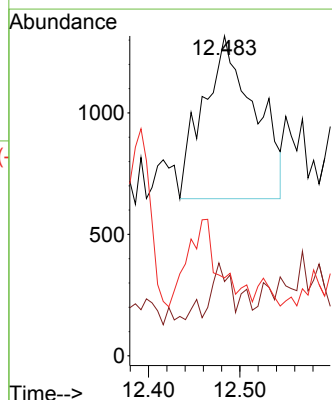
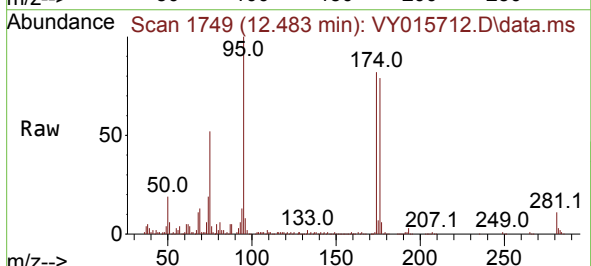
Tgt Ion: 83 Resp: 2600

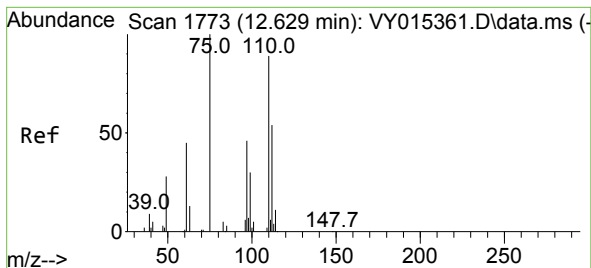
Ion Ratio Lower Upper

83 100

131 10.7 5.4 16.2

85 40.6 31.8 95.4





#76

1,2,3-Trichloropropane

Concen: 31.188 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

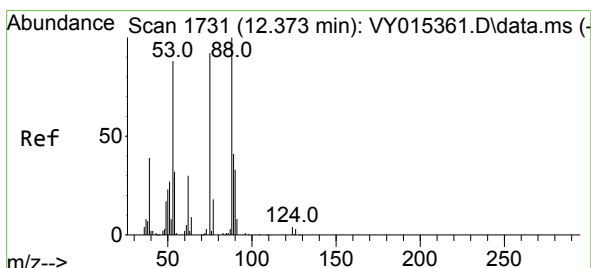
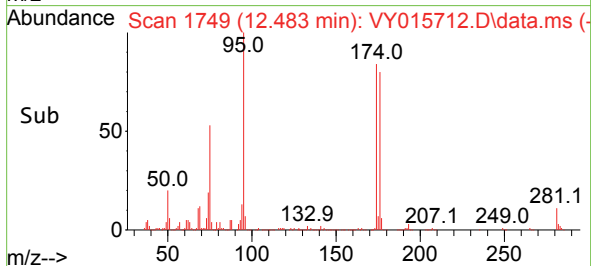
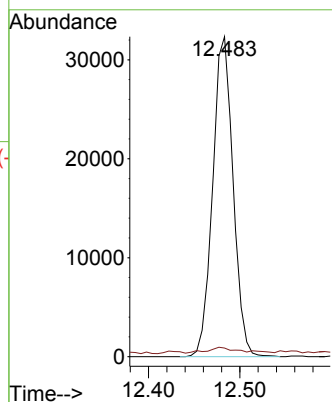
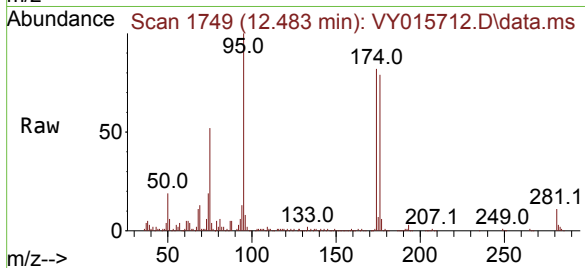
ClientSampleId :

Tgt Ion: 75 Resp: 50077

Ion Ratio Lower Upper

75 100

77 2.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.233 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.103 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

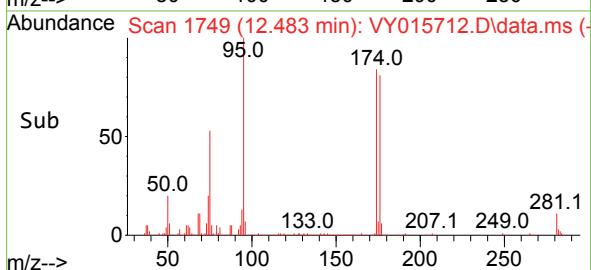
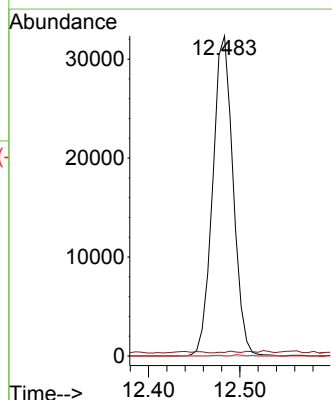
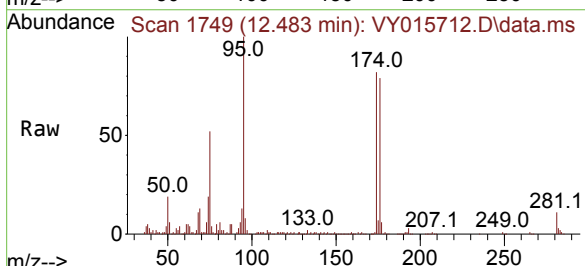
Tgt Ion: 75 Resp: 50077

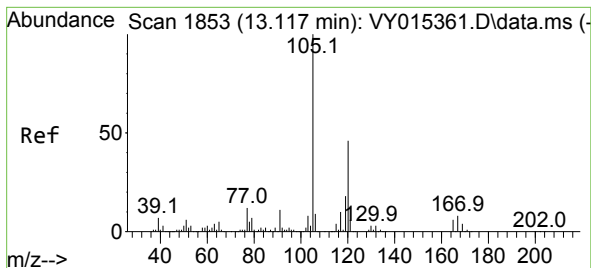
Ion Ratio Lower Upper

75 100

53 0.4 77.8 116.8#

89 0.2 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 3.620 ug/l

RT: 13.117 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

Instrument :

MSVOA_Y

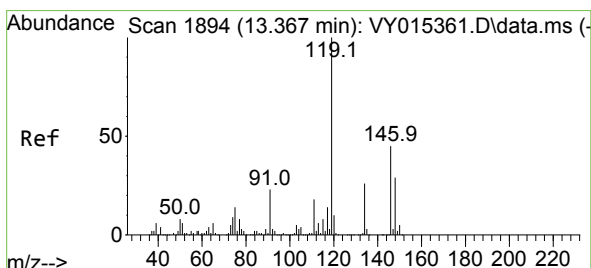
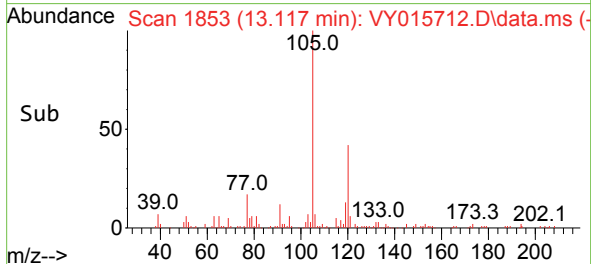
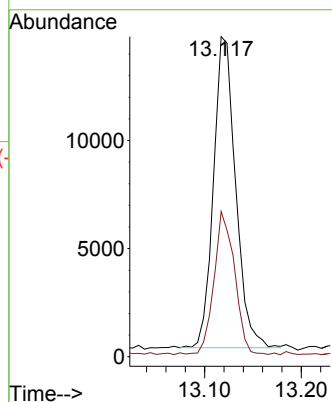
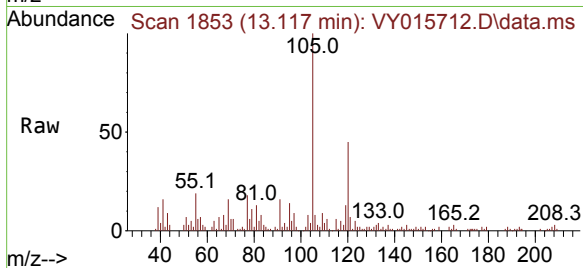
ClientSampleId :

Tgt Ion:105 Resp: 22895

Ion Ratio Lower Upper

105 100

120 42.4 22.2 66.6



#86

p-Isopropyltoluene

Concen: 1.442 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY015712.D

Acq: 26 Sep 2023 16:46

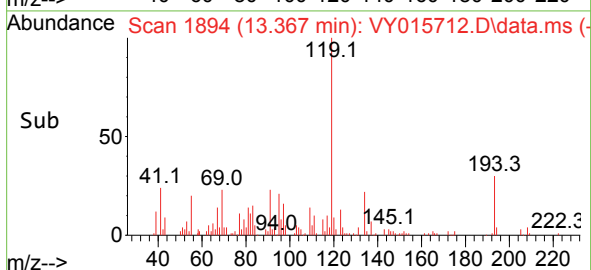
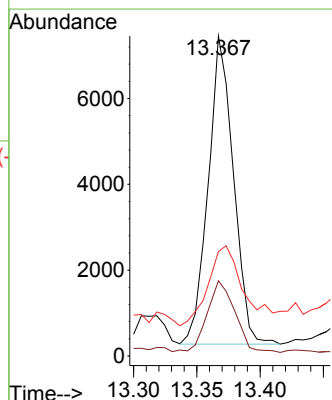
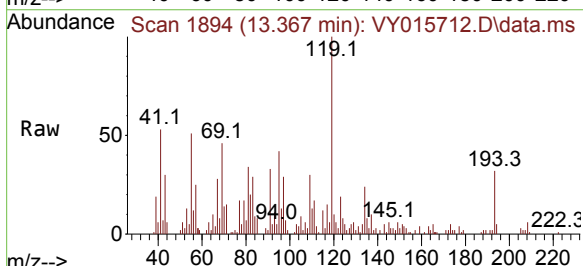
Tgt Ion:119 Resp: 9978

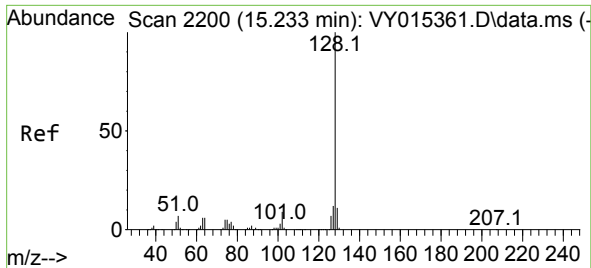
Ion Ratio Lower Upper

119 100

134 25.3 13.3 39.8

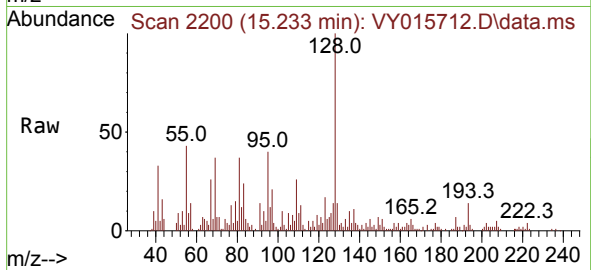
91 36.0 12.4 37.4





#95
Naphthalene
Concen: 3.127 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY015712.D
Acq: 26 Sep 2023 16:46

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 17420
Ion Ratio Lower Upper
128 100
127 16.5 10.8 16.2#
129 10.5 8.6 13.0

