

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100623\
 Data File : VY015869.D
 Acq On : 06 Oct 2023 17:57
 Operator : SY/MD
 Sample : 04767-09
 Misc : 5.17g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 07 07:30:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100523S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 05:54:04 2023
 Response via : Initial Calibration

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

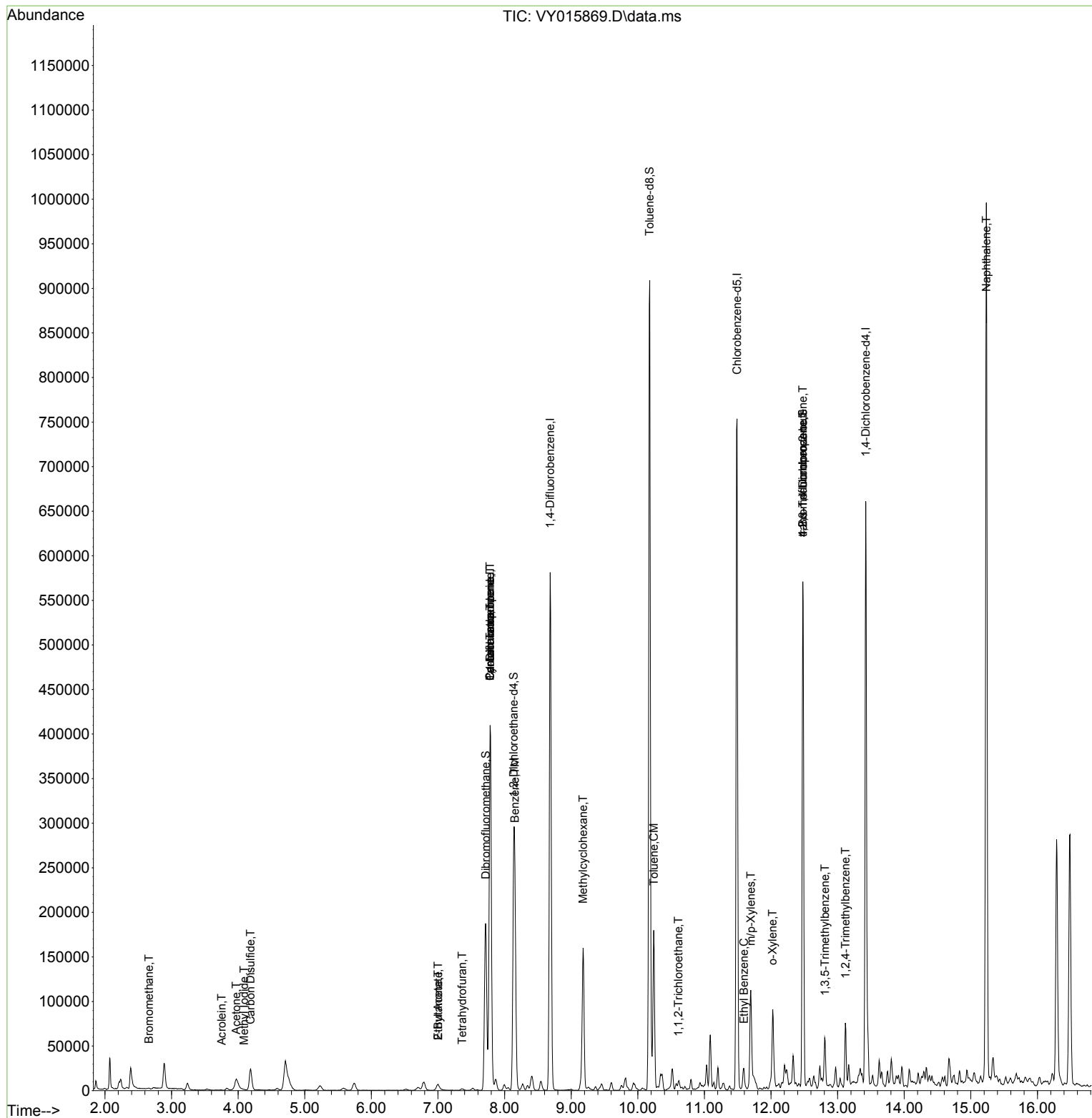
Internal Standards						
1) Pentafluorobenzene	7.783	168	297736	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	502508	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	423483	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	168159	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	177095	60.458	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 120.920%	
35) Dibromofluoromethane	7.716	113	135717	47.382	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 94.760%	
50) Toluene-d8	10.179	98	580307	62.401	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 124.800%	
62) 4-Bromofluorobenzene	12.477	95	174377	45.874	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 91.740%	
Target Compounds						Qvalue
5) Bromomethane	2.662	94	288	1.049	ug/l	91
10) Methyl Iodide	4.088	142	109	3.144	ug/l #	38
11) Tert butyl alcohol	4.978	59	162	Below Cal	#	89
13) Acrolein	3.753	56	432	1.912	ug/l	92
16) Acetone	3.972	43	32378	21.335	ug/l #	89
17) Carbon Disulfide	4.186	76	48579	18.131	ug/l	99
20) Methylene Chloride	4.710	84	21597	Below Cal		93
25) 2-Butanone	7.002	43	10340	4.953	ug/l #	88
29) Tetrahydrofuran	7.362	42	1465	1.258	ug/l #	85
31) Cyclohexane	7.783	56	24058	7.286	ug/l #	65
36) 1,1-Dichloropropene	7.783	75	22663	6.632	ug/l #	49
37) Ethyl Acetate	7.002	43	10340	2.704	ug/l #	71
38) Carbon Tetrachloride	7.783	117	29097	7.242	ug/l #	16
39) Methylcyclohexane	9.179	83	67734	18.534	ug/l	92
40) Benzene	8.155	78	134797	12.571	ug/l	98
52) Toluene	10.240	92	72568	10.344	ug/l	96
55) 1,1,2-Trichloroethane	10.611	97	4026	1.264	ug/l #	17
67) Ethyl Benzene	11.593	91	15203	1.134	ug/l	97
68) m/p-Xylenes	11.697	106	32864	6.450	ug/l	95
69) o-Xylene	12.026	106	21398	4.222	ug/l	96
76) 1,2,3-Trichloropropane	12.477	75	92624	37.208	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	20876	2.300	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	92624	86.133	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	38030	4.170	ug/l	98
95) Naphthalene	15.233	128	788167	89.373	ug/l	99

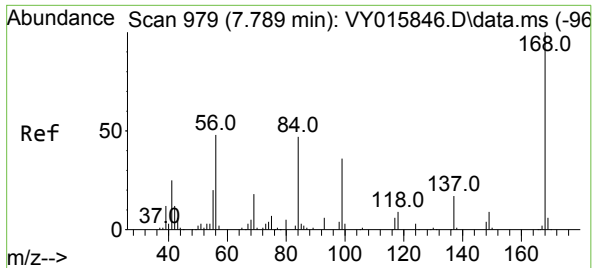
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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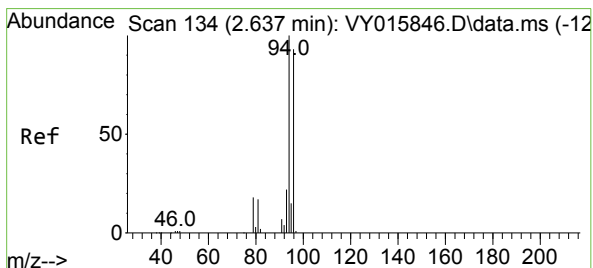
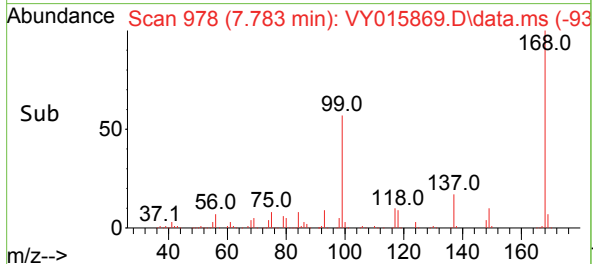
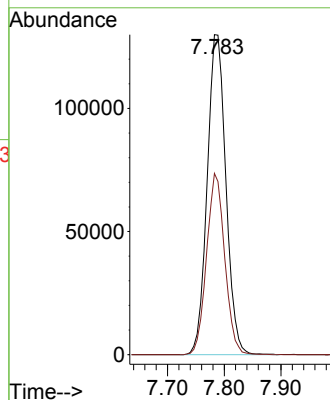
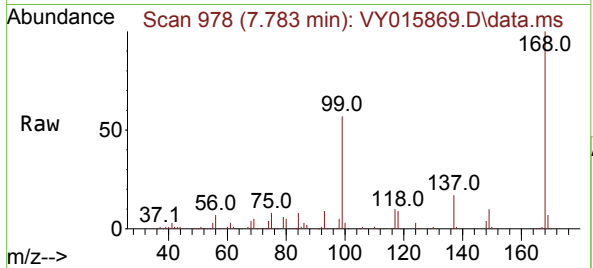




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

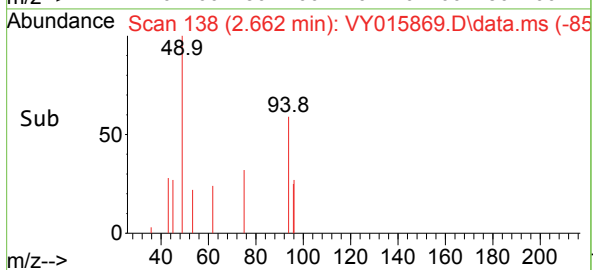
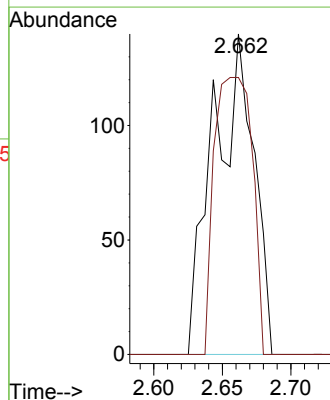
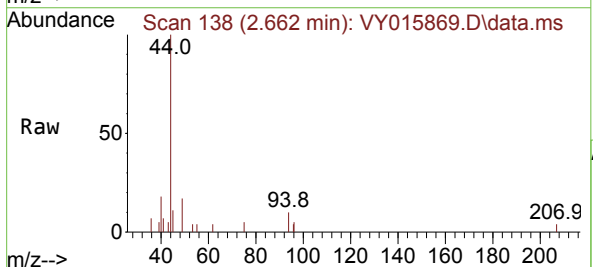
Instrument :
MSVOA_Y
ClientSampleId :

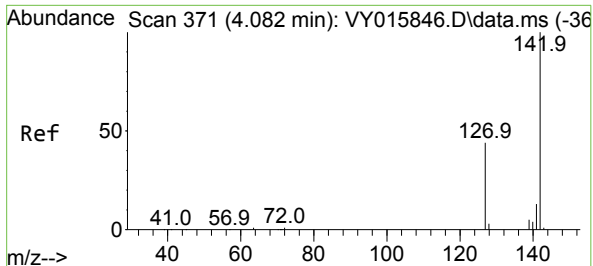
Tgt Ion:168 Resp: 297736
Ion Ratio Lower Upper
168 100
99 56.7 43.4 65.0



#5
Bromomethane
Concen: 1.049 ug/l
RT: 2.662 min Scan# 138
Delta R.T. 0.025 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

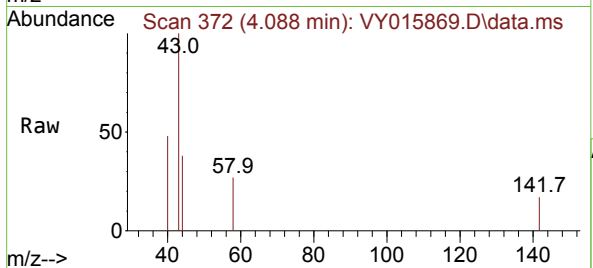
Tgt Ion: 94 Resp: 288
Ion Ratio Lower Upper
94 100
96 86.4 75.8 113.6



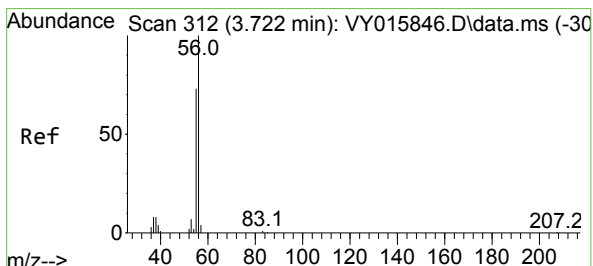
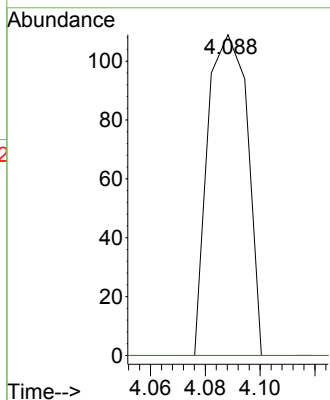
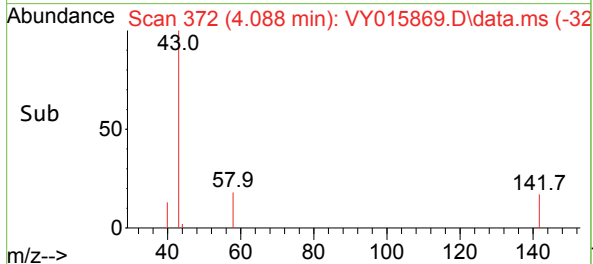


#10
Methyl Iodide
Concen: 3.144 ug/l
RT: 4.088 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Instrument :
MSVOA_Y
ClientSampleId :

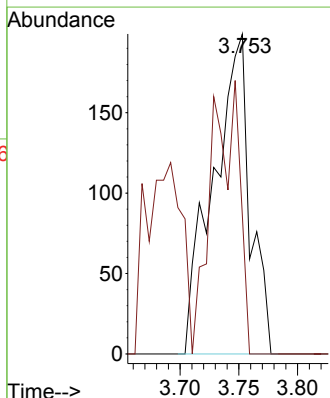
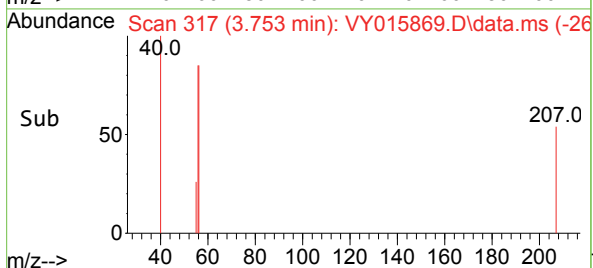
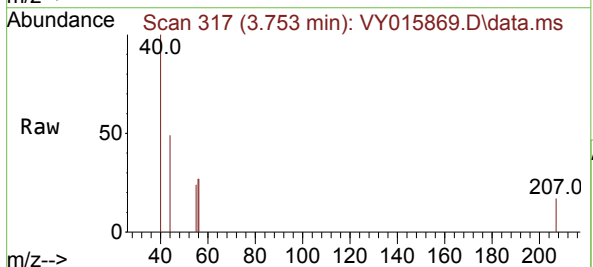


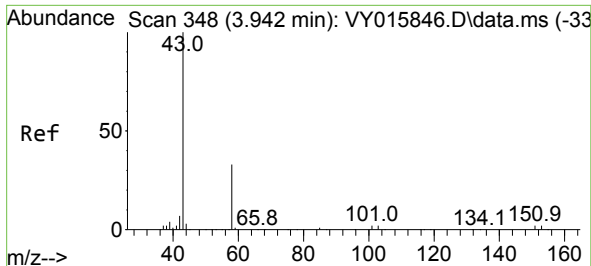
Tgt Ion:142 Resp: 109
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#



#13
Acrolein
Concen: 1.912 ug/l
RT: 3.753 min Scan# 317
Delta R.T. 0.030 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion: 56 Resp: 432
Ion Ratio Lower Upper
56 100
55 64.8 57.0 85.4





#16

Acetone

Concen: 21.335 ug/l

RT: 3.972 min Scan# 3

Delta R.T. 0.030 min

Lab File: VY015869.D

Acq: 06 Oct 2023 17:57

Instrument :

MSVOA_Y

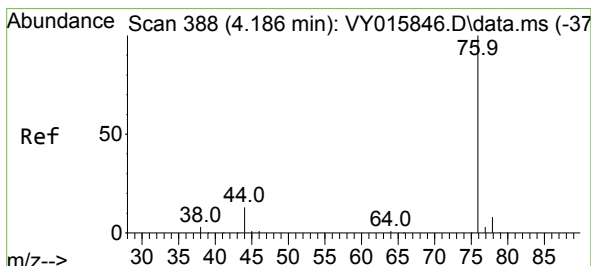
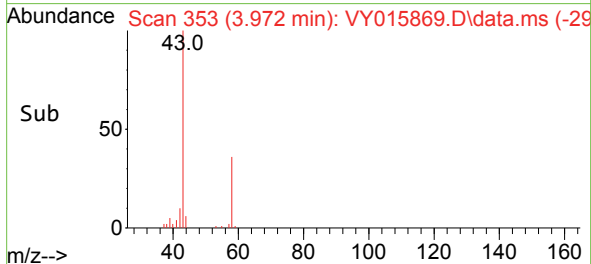
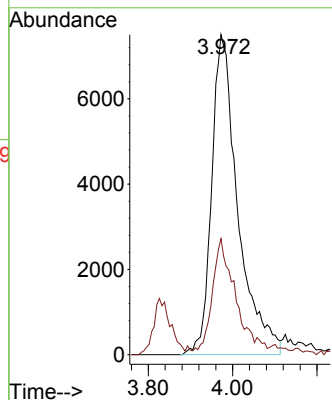
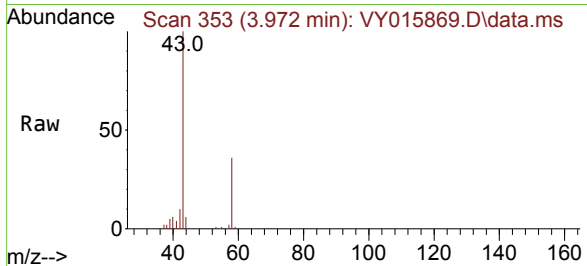
ClientSampleId :

Tgt Ion: 43 Resp: 32378

Ion Ratio Lower Upper

43 100

58 34.1 22.7 34.1#



#17

Carbon Disulfide

Concen: 18.131 ug/l

RT: 4.186 min Scan# 388

Delta R.T. -0.000 min

Lab File: VY015869.D

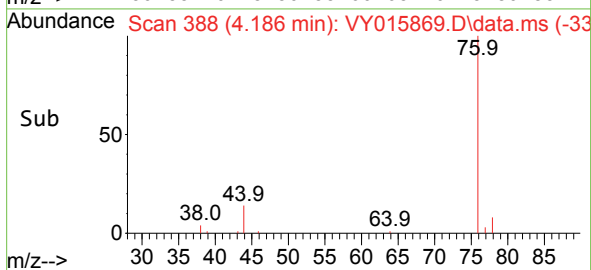
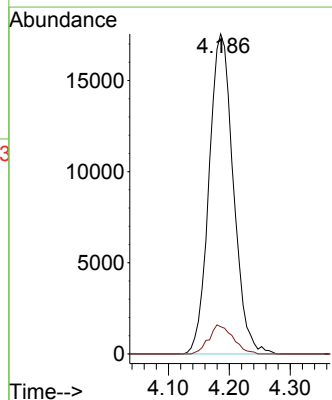
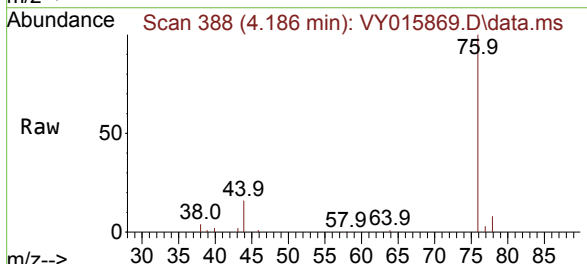
Acq: 06 Oct 2023 17:57

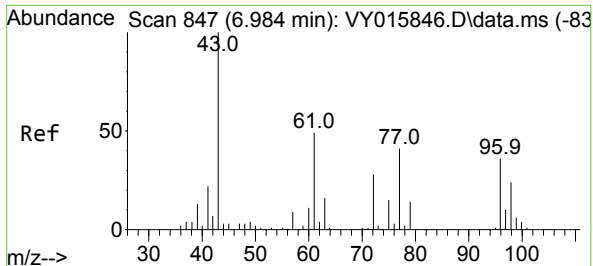
Tgt Ion: 76 Resp: 48579

Ion Ratio Lower Upper

76 100

78 8.5 7.0 10.4





#25

2-Butanone

Concen: 4.953 ug/l

RT: 7.002 min Scan# 81

Delta R.T. 0.018 min

Lab File: VY015869.D

Acq: 06 Oct 2023 17:57

Instrument :

MSVOA_Y

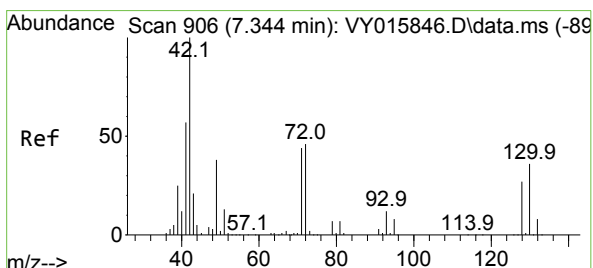
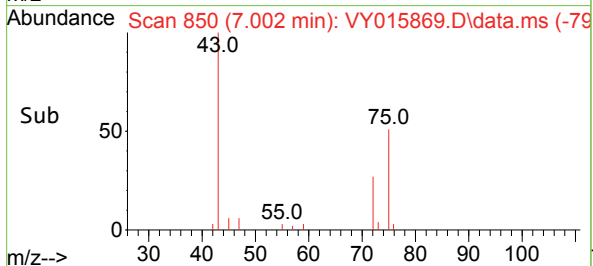
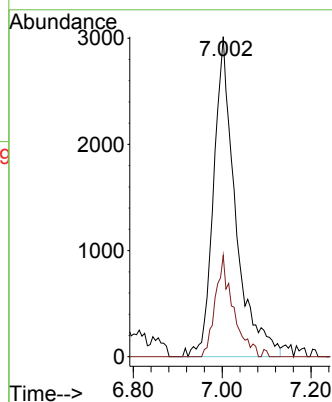
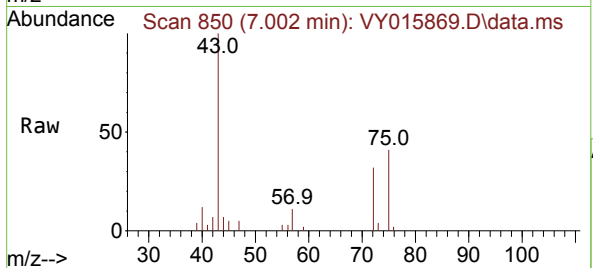
ClientSampleId :

Tgt Ion: 43 Resp: 10340

Ion Ratio Lower Upper

43 100

72 31.6 20.5 30.7#



#29

Tetrahydrofuran

Concen: 1.258 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.018 min

Lab File: VY015869.D

Acq: 06 Oct 2023 17:57

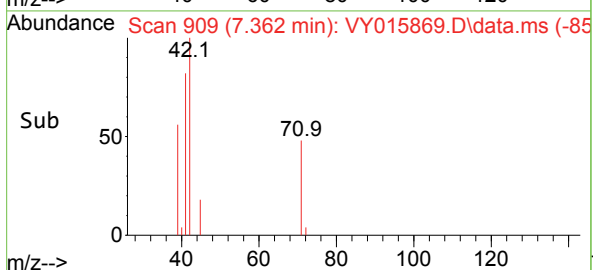
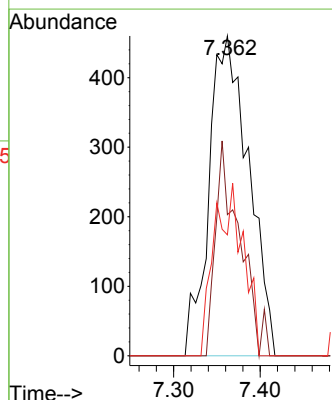
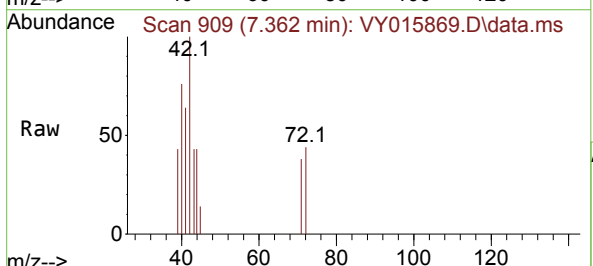
Tgt Ion: 42 Resp: 1465

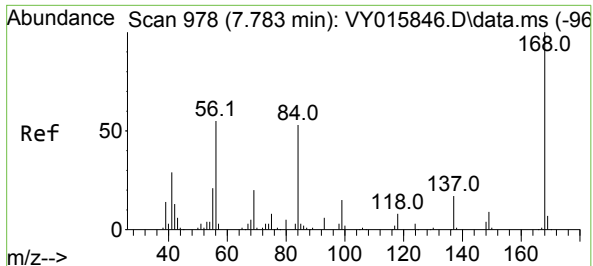
Ion Ratio Lower Upper

42 100

72 41.0 32.8 49.2

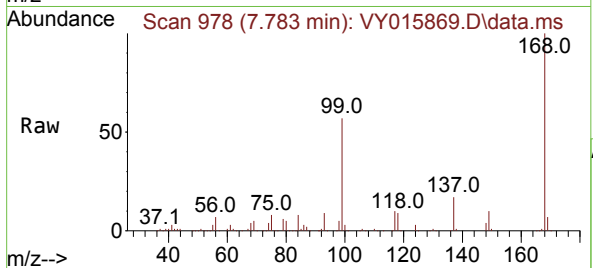
71 20.1 31.0 46.4#



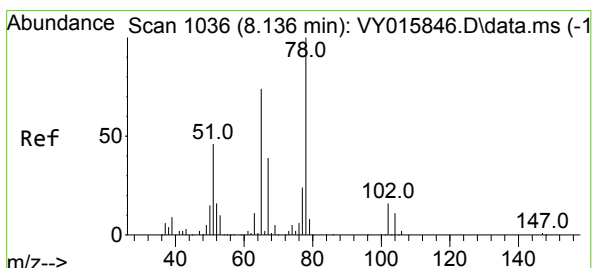
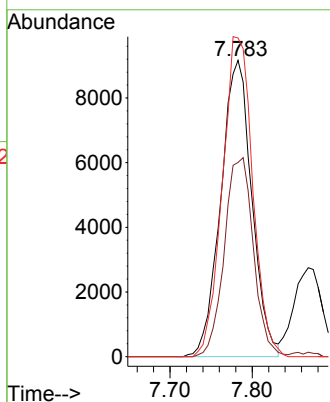
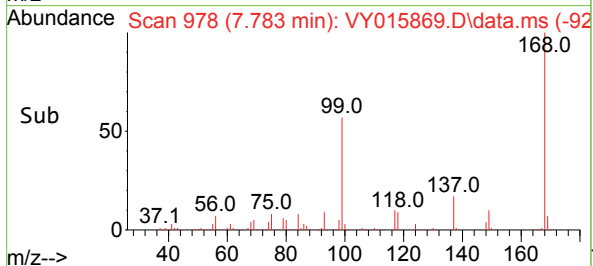


#31
Cyclohexane
Concen: 7.286 ug/l
RT: 7.783 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Instrument :
MSVOA_Y
ClientSampleId :

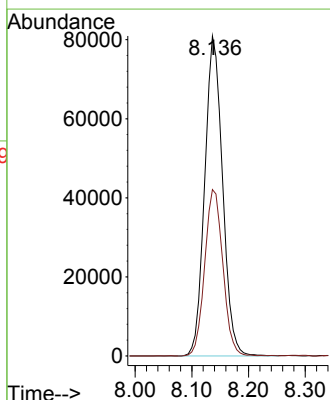
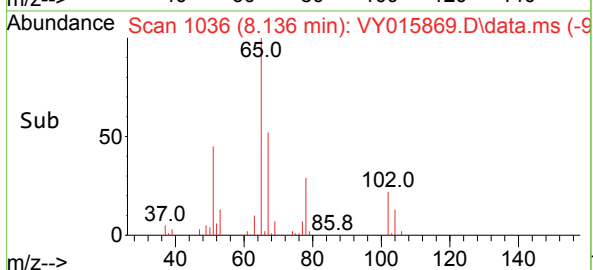
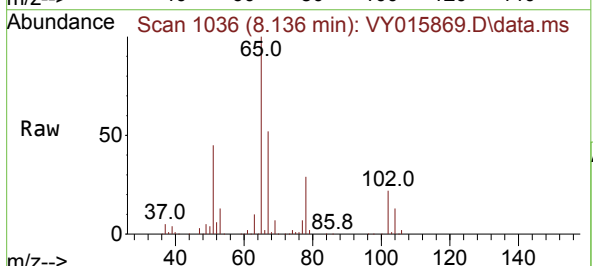


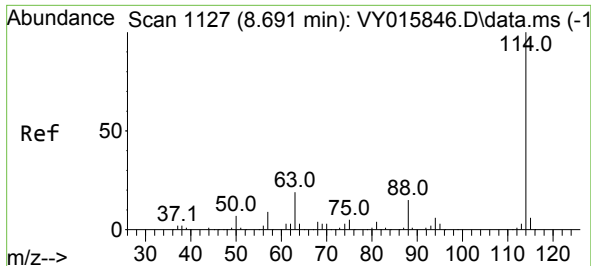
Tgt Ion: 56 Resp: 24058
Ion Ratio Lower Upper
56 100
69 65.5 27.8 41.6#
84 107.5 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 60.458 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion: 65 Resp: 177095
Ion Ratio Lower Upper
65 100
67 52.8 0.0 101.8

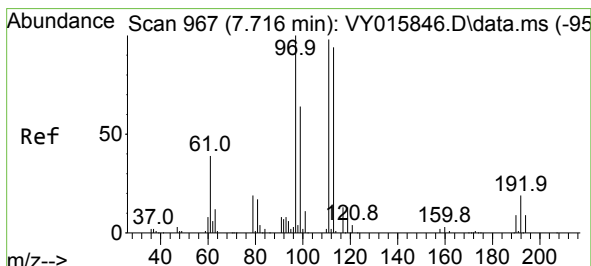
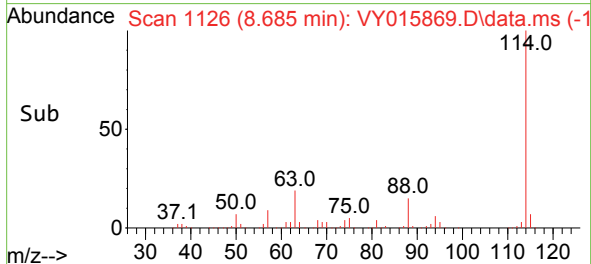
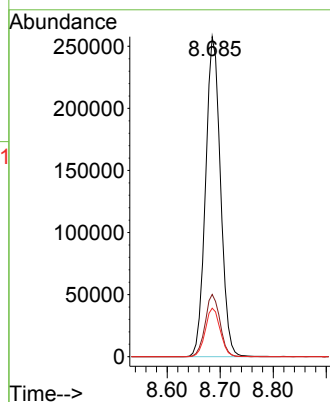
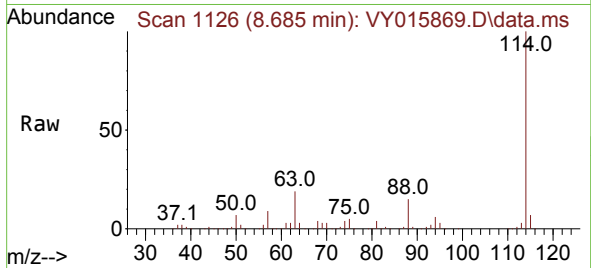




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

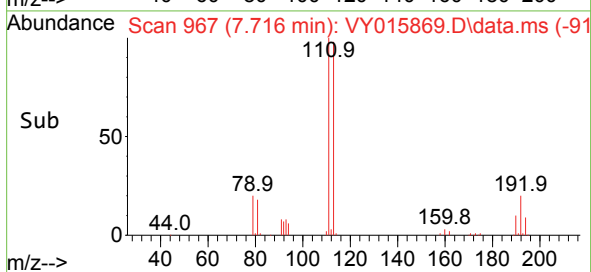
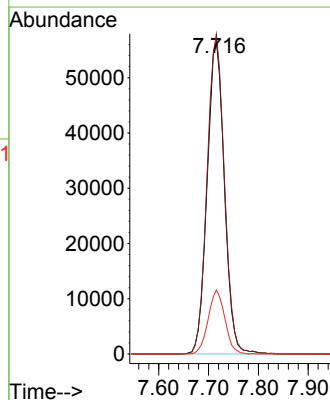
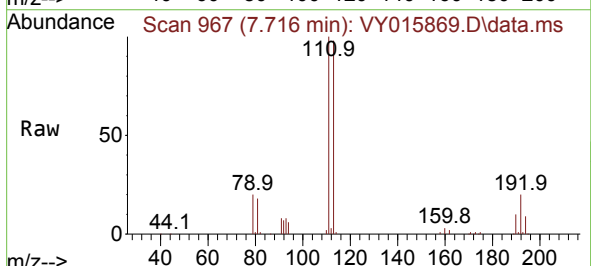
Instrument :
MSVOA_Y
ClientSampleId :

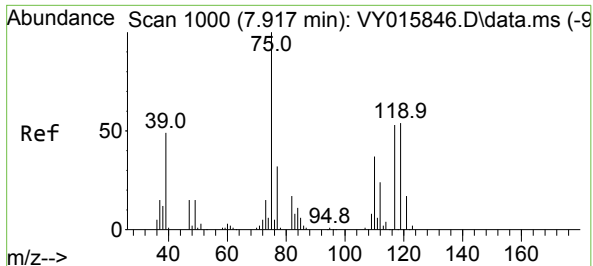
Tgt Ion:114 Resp: 502508
Ion Ratio Lower Upper
114 100
63 19.4 0.0 42.4
88 15.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.382 ug/l
RT: 7.716 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

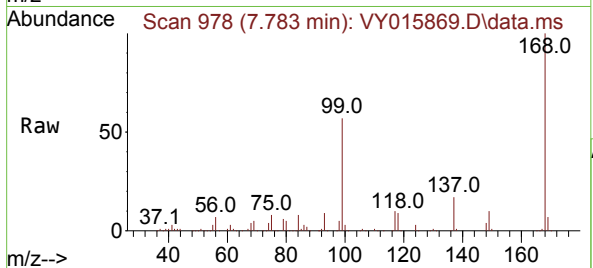
Tgt Ion:113 Resp: 135717
Ion Ratio Lower Upper
113 100
111 103.1 81.3 121.9
192 19.8 16.9 25.3



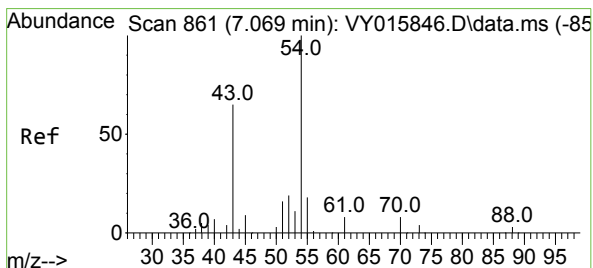
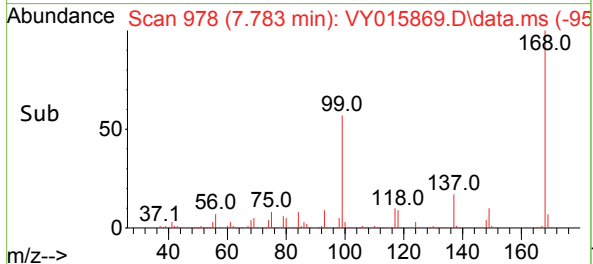
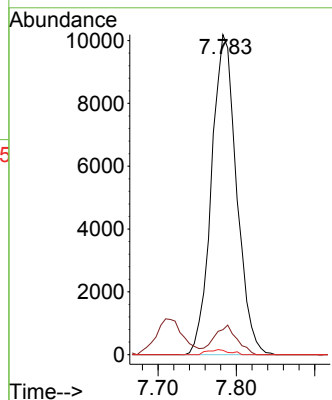


#36
1,1-Dichloropropene
Concen: 6.632 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Instrument :
MSVOA_Y
ClientSampleId :

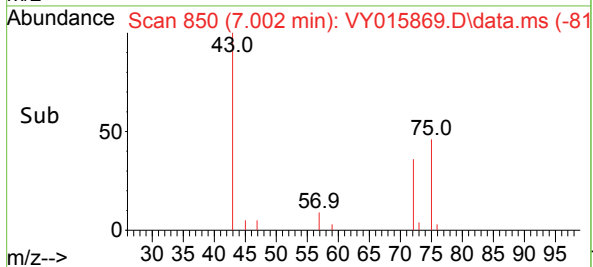
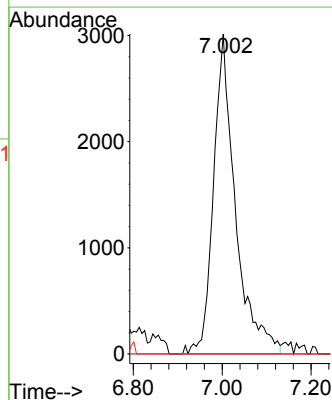
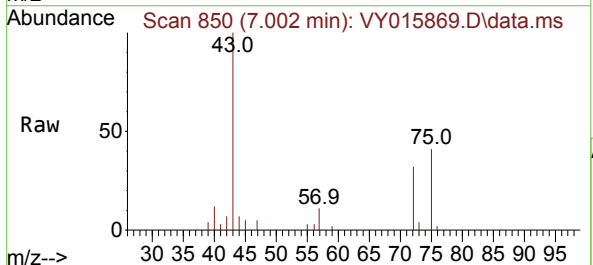


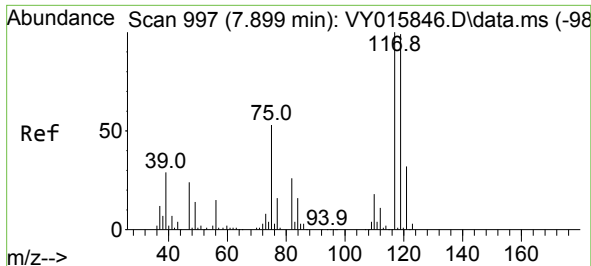
Tgt Ion: 75 Resp: 22663
Ion Ratio Lower Upper
75 100
110 8.6 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 2.704 ug/l
RT: 7.002 min Scan# 850
Delta R.T. -0.067 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

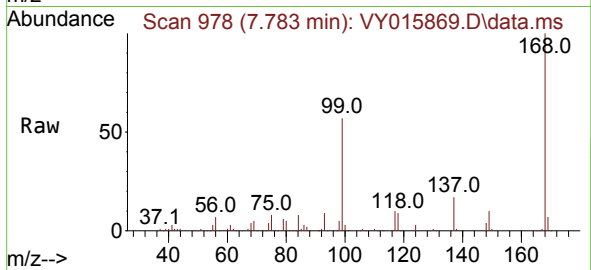
Tgt Ion: 43 Resp: 10340
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 0.0 7.1 10.7#



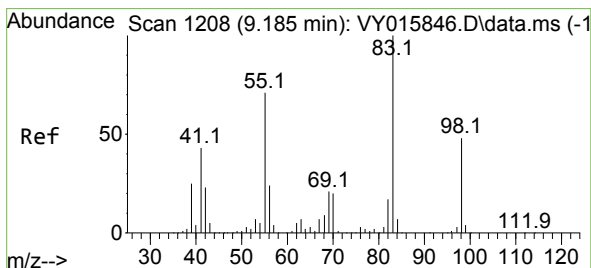
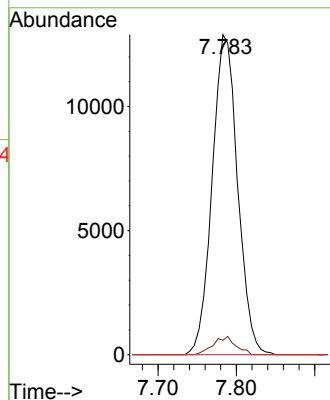
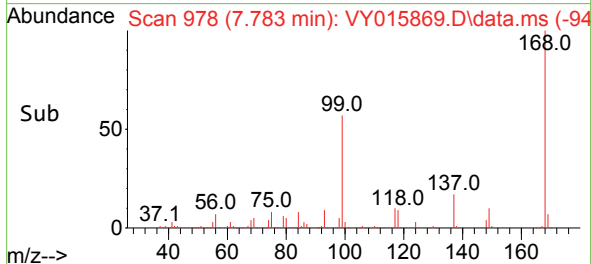


#38
Carbon Tetrachloride
Concen: 7.242 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Instrument :
MSVOA_Y
ClientSampleId :

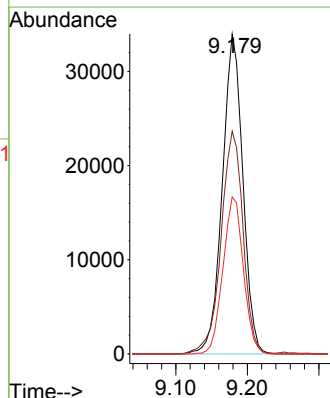
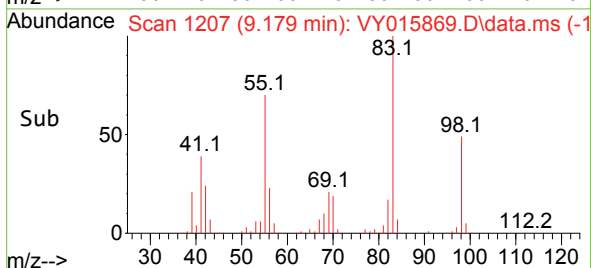
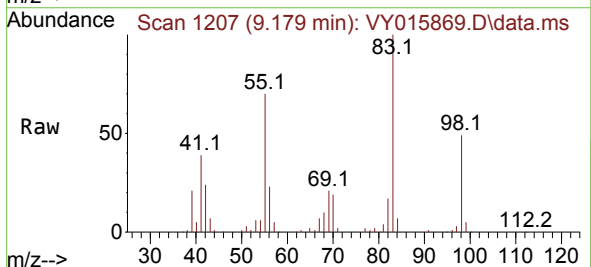


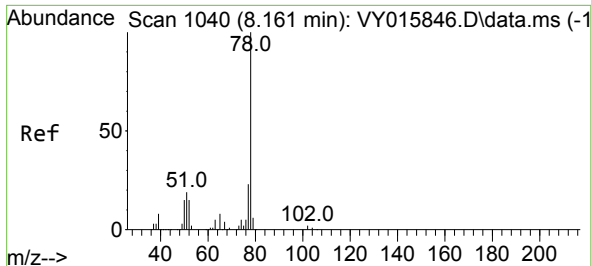
Tgt Ion:117 Resp: 29097
Ion Ratio Lower Upper
117 100
119 4.5 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 18.534 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.006 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion: 83 Resp: 67734
Ion Ratio Lower Upper
83 100
55 69.6 63.0 94.4
98 49.1 37.4 56.2

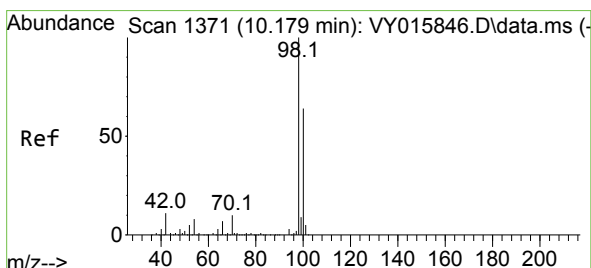
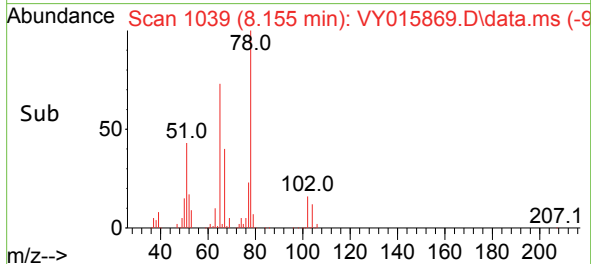
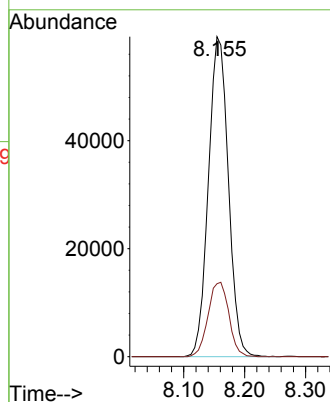
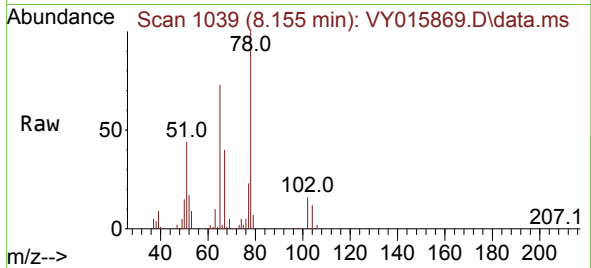




#40
Benzene
Concen: 12.571 ug/l
RT: 8.155 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

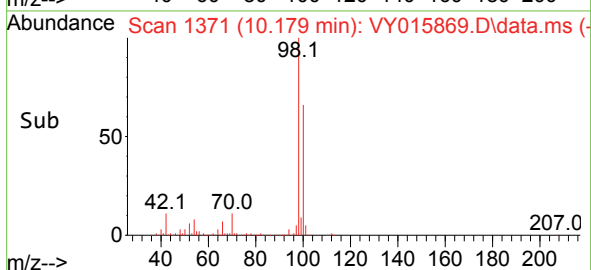
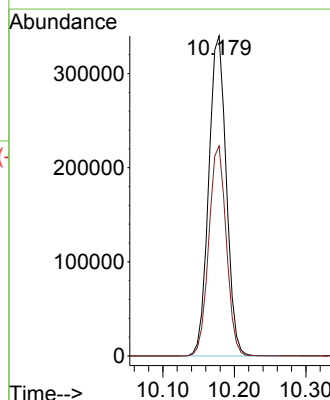
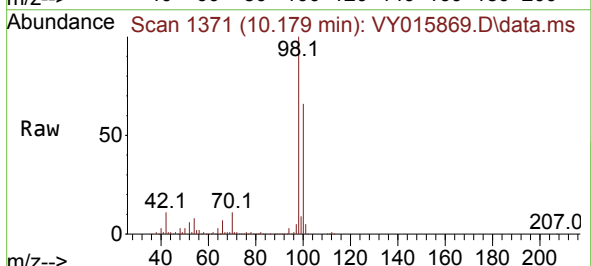
Instrument :
MSVOA_Y
ClientSampleId :

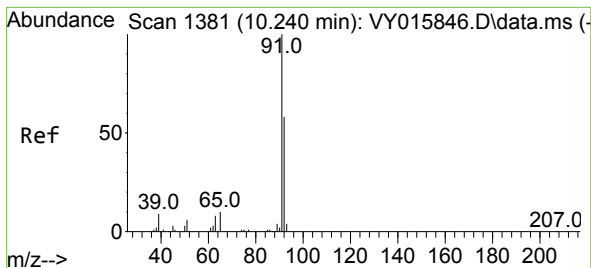
Tgt Ion: 78 Resp: 134797
Ion Ratio Lower Upper
78 100
77 22.8 19.0 28.6



#50
Toluene-d8
Concen: 62.401 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion: 98 Resp: 580307
Ion Ratio Lower Upper
98 100
100 65.2 50.1 75.1





#52

Toluene

Concen: 10.344 ug/l

RT: 10.240 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VY015869.D

Acq: 06 Oct 2023 17:57

Instrument :

MSVOA_Y

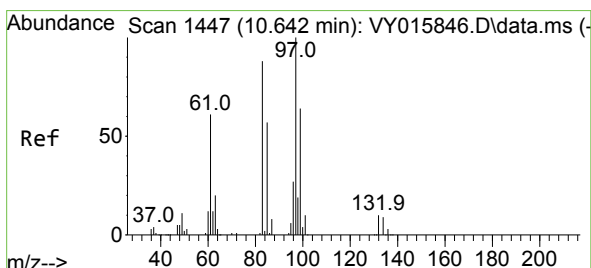
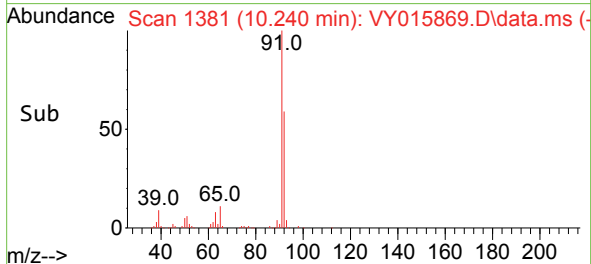
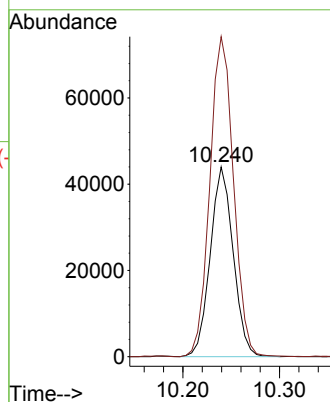
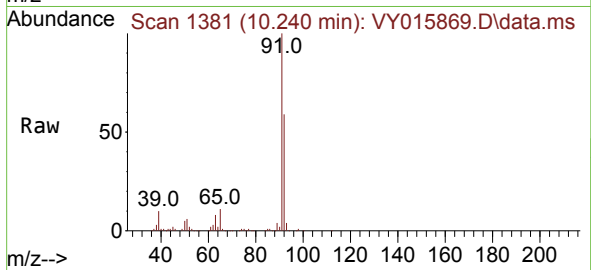
ClientSampleId :

Tgt Ion: 92 Resp: 72568

Ion Ratio Lower Upper

92 100

91 174.3 143.8 215.6



#55

1,1,2-Trichloroethane

Concen: 1.264 ug/l

RT: 10.611 min Scan# 1442

Delta R.T. -0.030 min

Lab File: VY015869.D

Acq: 06 Oct 2023 17:57

Tgt Ion: 97 Resp: 4026

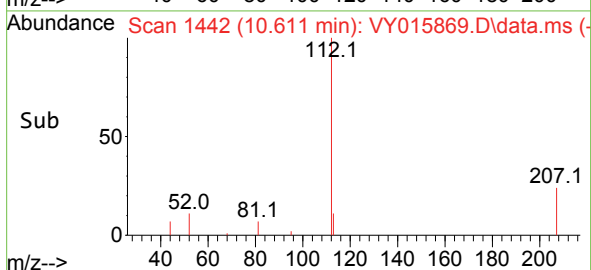
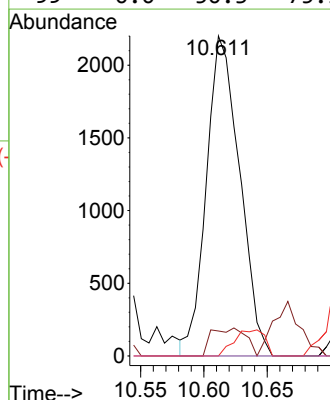
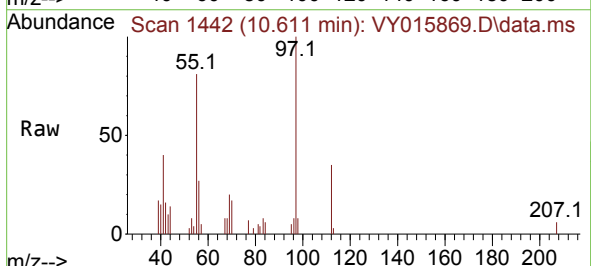
Ion Ratio Lower Upper

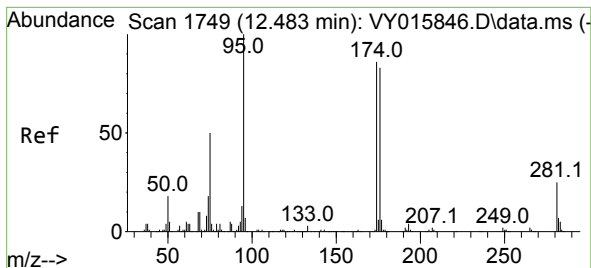
97 100

83 7.8 72.0 108.0#

85 0.0 45.4 68.0#

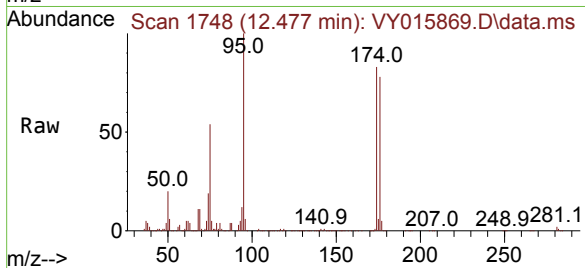
99 0.0 50.3 75.5#



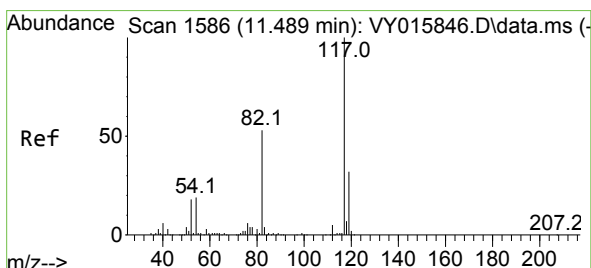
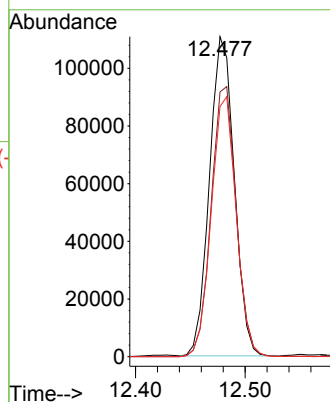
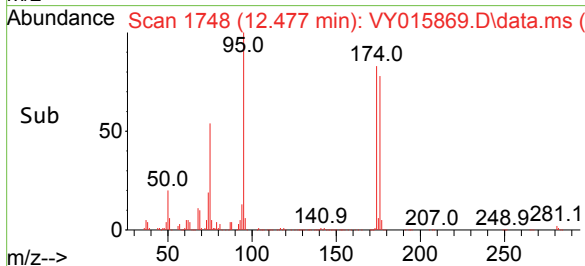


#62
4-Bromofluorobenzene
Concen: 45.874 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Instrument :
MSVOA_Y
ClientSampleId :

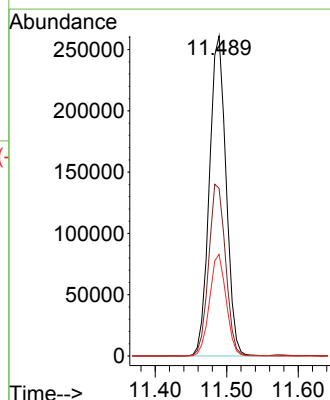
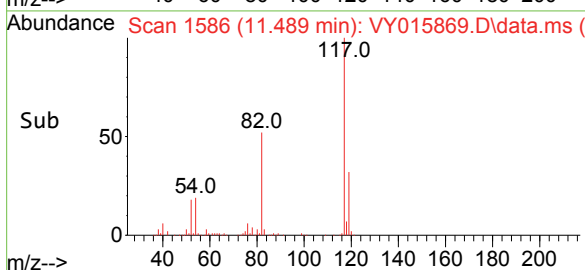
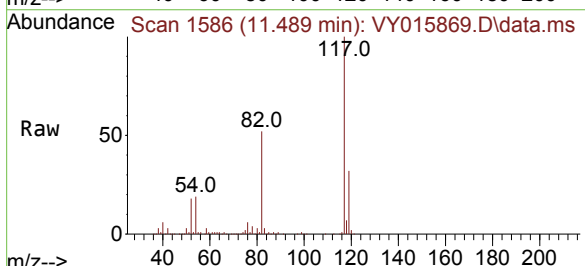


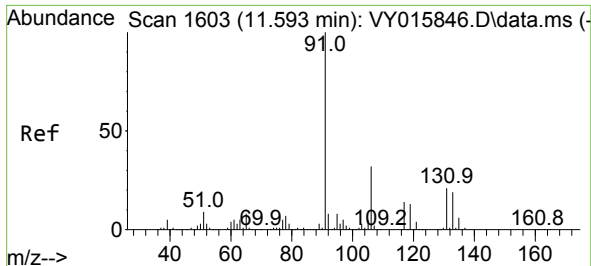
Tgt Ion: 95 Resp: 174377
Ion Ratio Lower Upper
95 100
174 85.4 0.0 178.2
176 82.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion: 117 Resp: 423483
Ion Ratio Lower Upper
117 100
82 52.4 43.4 65.0
119 31.8 26.3 39.5

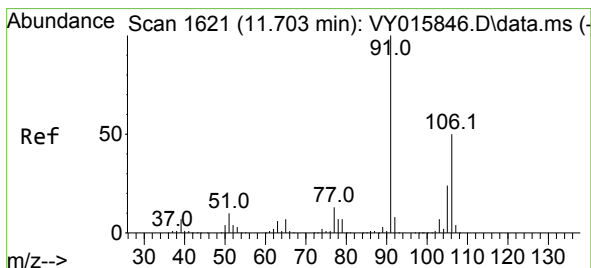
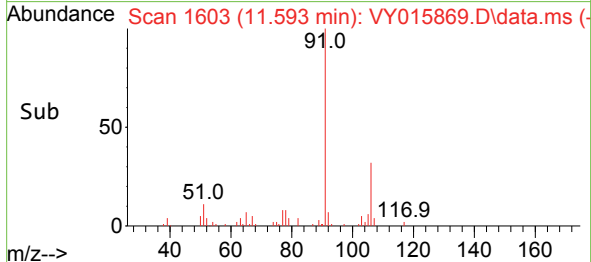
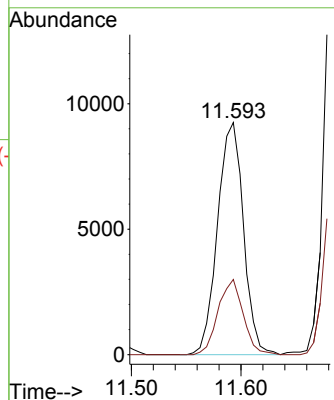
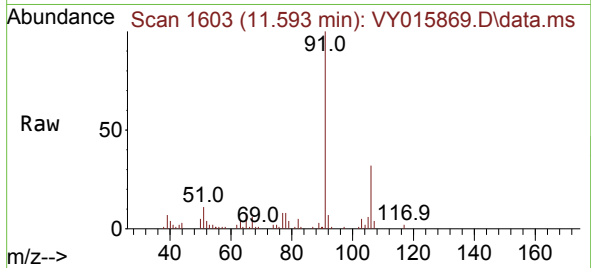




#67
Ethyl Benzene
Concen: 1.134 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

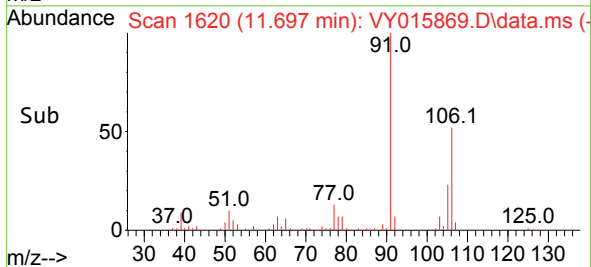
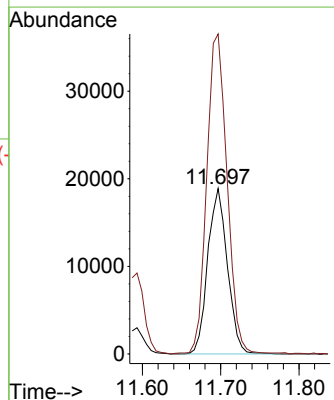
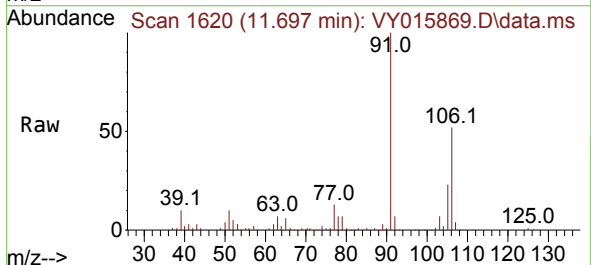
Instrument :
MSVOA_Y
ClientSampleId :

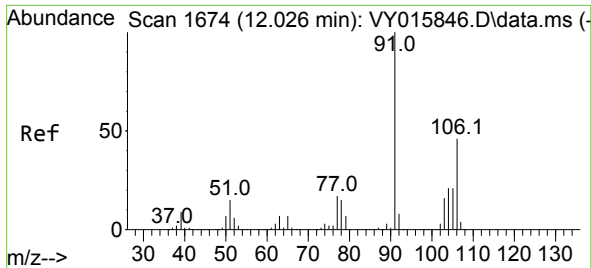
Tgt Ion: 91 Resp: 15203
Ion Ratio Lower Upper
91 100
106 32.4 24.6 36.8



#68
m/p-Xylenes
Concen: 6.450 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion: 106 Resp: 32864
Ion Ratio Lower Upper
106 100
91 200.4 166.1 249.1

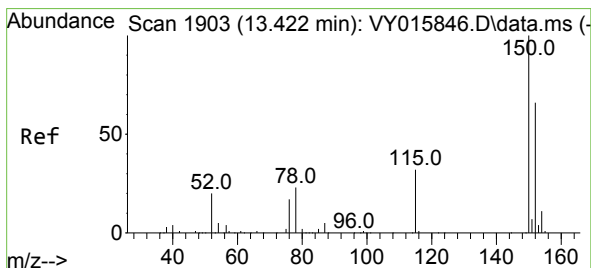
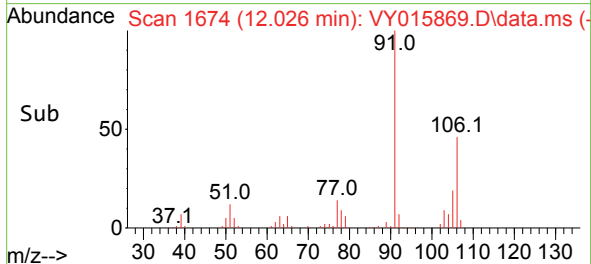
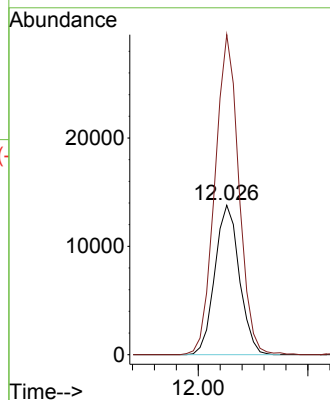
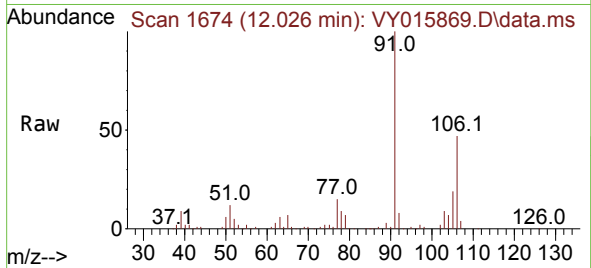




#69
o-Xylene
Concen: 4.222 ug/l
RT: 12.026 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

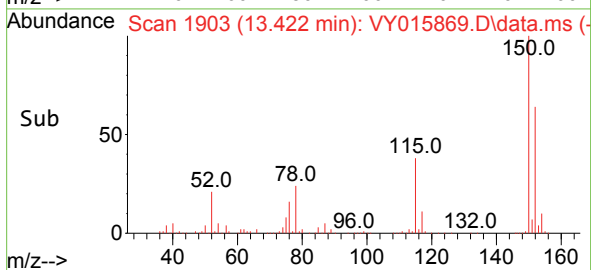
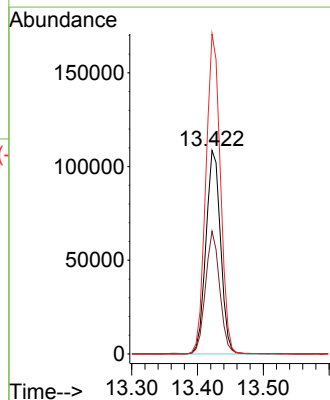
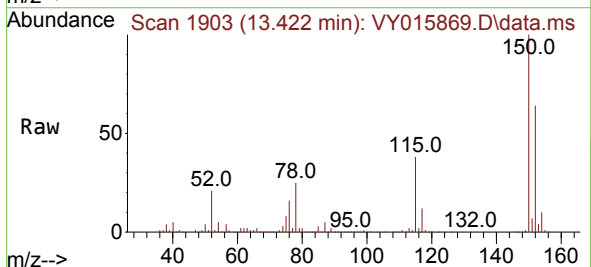
Instrument :
MSVOA_Y
ClientSampleId :

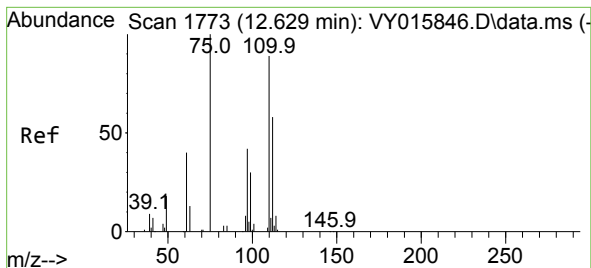
Tgt Ion:106 Resp: 21398
Ion Ratio Lower Upper
106 100
91 209.9 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion:152 Resp: 168159
Ion Ratio Lower Upper
152 100
115 58.6 28.8 86.5
150 156.5 0.0 348.8

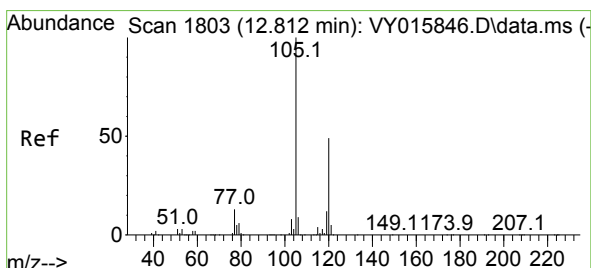
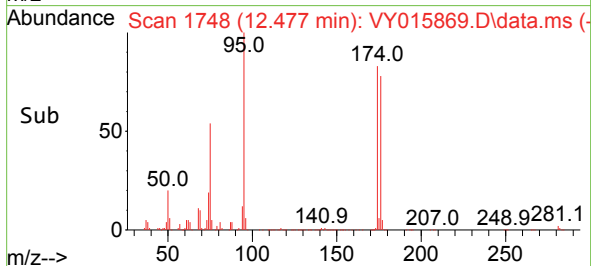
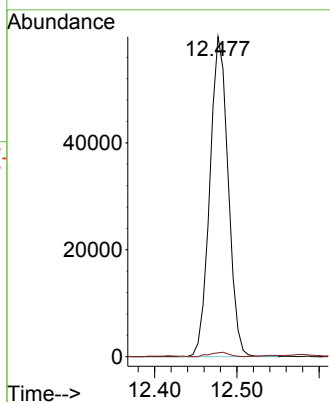
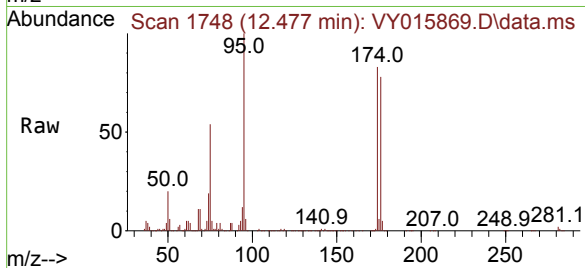




#76
 1,2,3-Trichloropropane
 Concen: 37.208 ug/l
 RT: 12.477 min Scan# 1773
 Delta R.T. -0.152 min
 Lab File: VY015869.D
 Acq: 06 Oct 2023 17:57

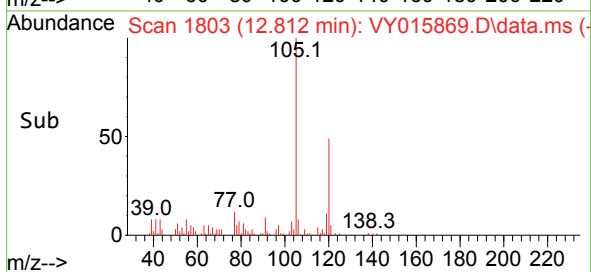
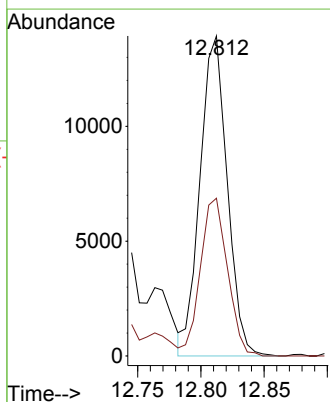
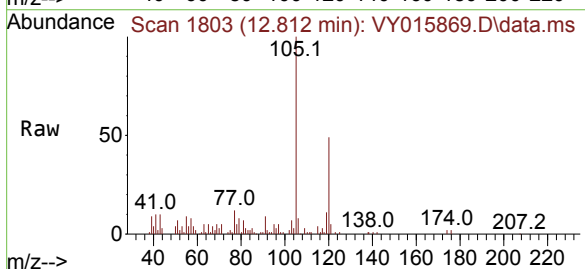
Instrument :
 MSVOA_Y
 ClientSampleId :

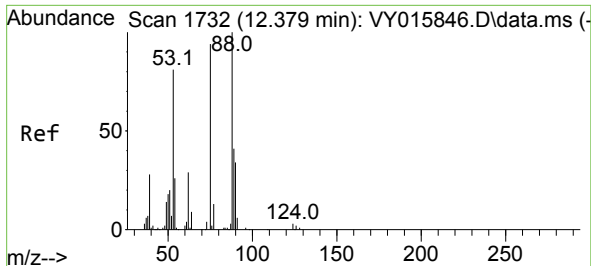
Tgt Ion: 75 Resp: 92624
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.300 ug/l
 RT: 12.812 min Scan# 1803
 Delta R.T. 0.000 min
 Lab File: VY015869.D
 Acq: 06 Oct 2023 17:57

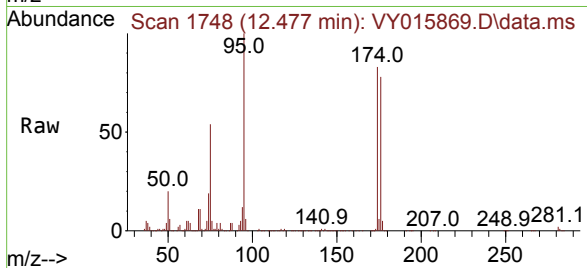
Tgt Ion: 105 Resp: 20876
 Ion Ratio Lower Upper
 105 100
 120 49.2 23.9 71.7



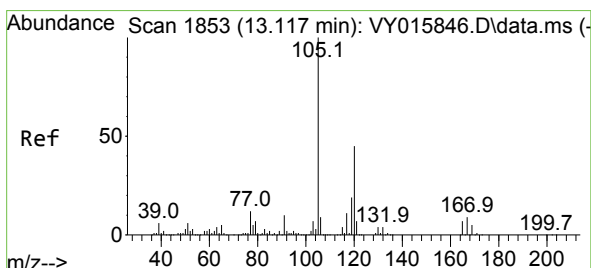
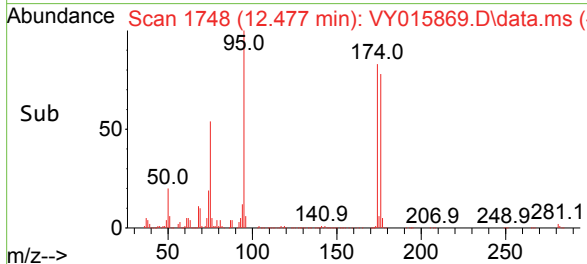
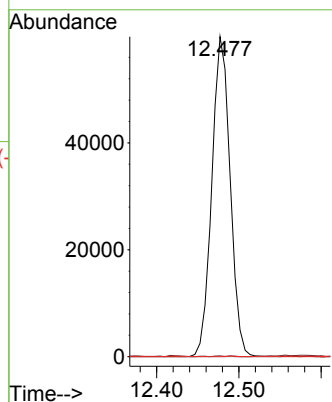


#81
trans-1,4-Dichloro-2-butene
Concen: 86.133 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.098 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Instrument :
MSVOA_Y
ClientSampleId :

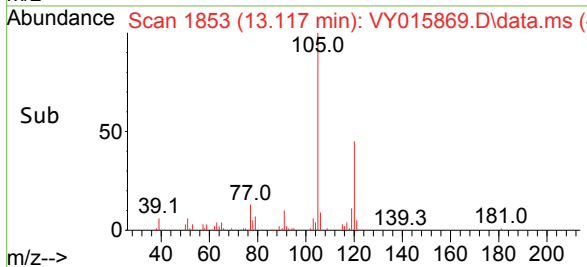
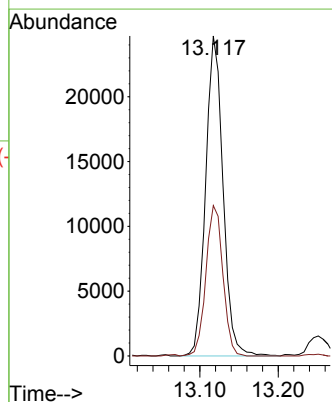
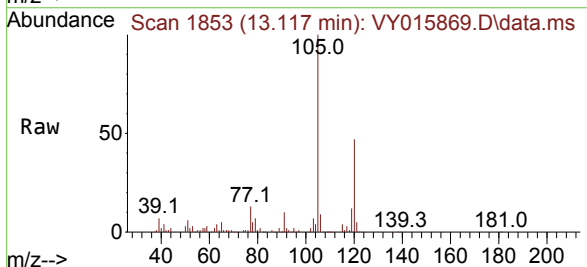


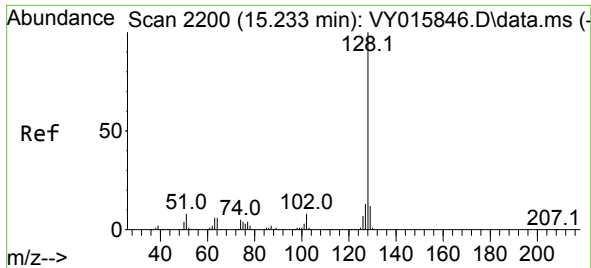
Tgt Ion: 75 Resp: 92624
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 0.0 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 4.170 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015869.D
Acq: 06 Oct 2023 17:57

Tgt Ion: 105 Resp: 38030
Ion Ratio Lower Upper
105 100
120 45.8 22.2 66.6





#95

Naphthalene

Concen: 89.373 ug/l

RT: 15.233 min Scan# 21

Delta R.T. 0.000 min

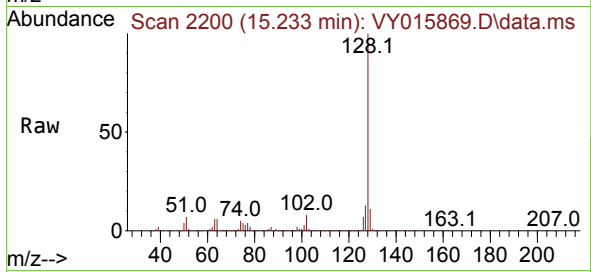
Lab File: VY015869.D

Acq: 06 Oct 2023 17:57

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 788167

Ion Ratio Lower Upper

128 100

127 12.8 10.8 16.2

129 10.9 8.6 13.0

