

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071624\
 Data File : VY018829.D
 Acq On : 16 Jul 2024 13:51
 Operator : SY/MD
 Sample : P3224-09
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jul 17 01:55:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y070924S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 14:28:51 2024
 Response via : Initial Calibration

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

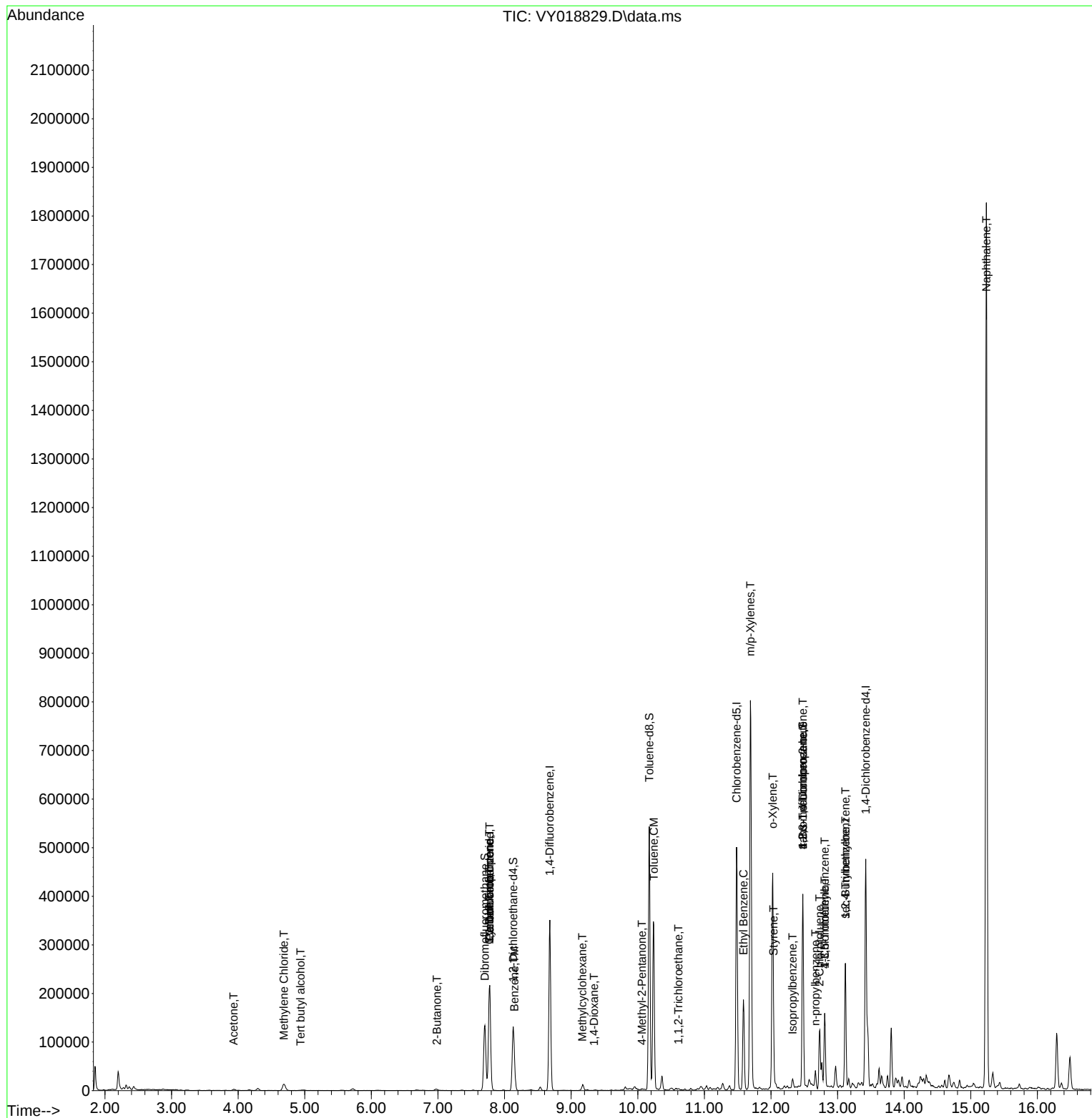
Internal Standards						
1) Pentafluorobenzene	7.777	168	169631	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.679	114	295365	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.484	117	271054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	115798	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	88129	52.797	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.600%			
35) Dibromofluoromethane	7.704	113	91661	49.548	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.100%			
50) Toluene-d8	10.173	98	337208	48.113	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.220%			
62) 4-Bromofluorobenzene	12.477	95	114582	47.873	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.740%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.936	59	1000	5.914	ug/l	98
16) Acetone	3.930	43	4206	13.667	ug/l #	73
20) Methylene Chloride	4.686	84	10663	1.282	ug/l	93
25) 2-Butanone	6.984	43	1253	2.905	ug/l #	77
31) Cyclohexane	7.771	56	4473	1.744	ug/l #	41
36) 1,1-Dichloropropene	7.771	75	12276	4.809	ug/l #	50
38) Carbon Tetrachloride	7.777	117	16170	5.259	ug/l #	17
39) Methylcyclohexane	9.167	83	4554	1.392	ug/l #	86
40) Benzene	8.149	78	26619	3.594	ug/l	99
49) 1,4-Dioxane	9.344	88	42	3.428	ug/l #	20
51) 4-Methyl-2-Pentanone	10.063	43	1088	1.009	ug/l	99
52) Toluene	10.240	92	146059	29.672	ug/l	96
55) 1,1,2-Trichloroethane	10.612	97	1331	1.005	ug/l #	21
67) Ethyl Benzene	11.587	91	127772	12.756	ug/l	97
68) m/p-Xylenes	11.691	106	240981	61.306	ug/l	99
69) o-Xylene	12.026	106	113888	30.818	ug/l	98
70) Styrene	12.038	104	21721	3.523	ug/l #	13
73) Isopropylbenzene	12.325	105	11117	1.312	ug/l	96
76) 1,2,3-Trichloropropane	12.477	75	62963	69.423	ug/l #	100
78) n-propylbenzene	12.666	91	24978	2.482	ug/l	95
79) 2-Chlorotoluene	12.727	91	10196	1.802	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.806	105	64587	9.314	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	62963	155.372	ug/l #	16
82) 4-Chlorotoluene	12.806	91	7605	1.305	ug/l #	40
84) 1,2,4-Trimethylbenzene	13.117	105	131425	19.073	ug/l	99
85) sec-Butylbenzene	13.117	105	131425	14.463	ug/l #	56
95) Naphthalene	15.233	128	1414773	393.586	ug/l	99

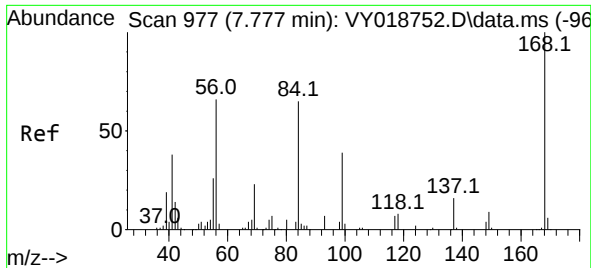
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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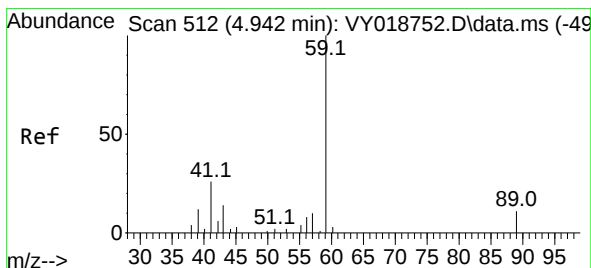
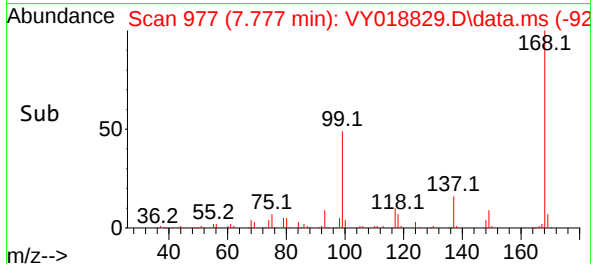
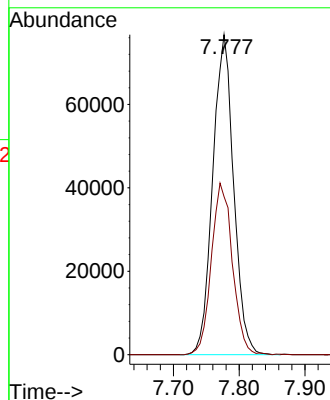
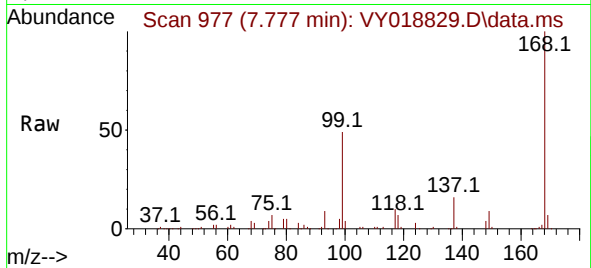




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

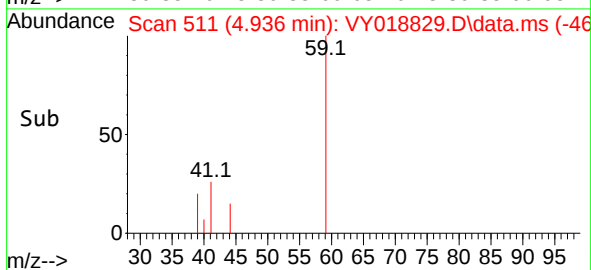
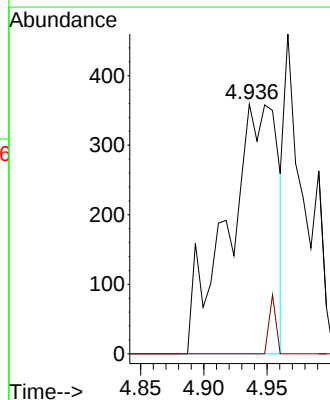
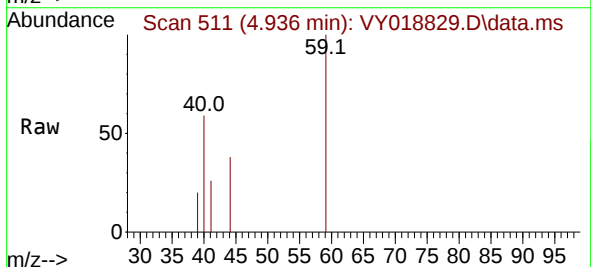
Instrument :
MSVOA_Y
ClientSampleId :

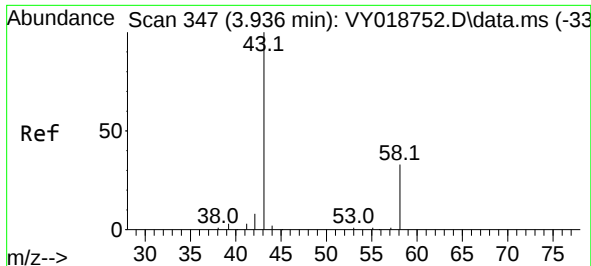
Tgt Ion:168 Resp: 169631
Ion Ratio Lower Upper
168 100
99 49.4 39.1 58.7



#11
Tert butyl alcohol
Concen: 5.914 ug/l
RT: 4.936 min Scan# 511
Delta R.T. -0.006 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 59 Resp: 1000
Ion Ratio Lower Upper
59 100
57 3.1 3.0 4.6





#16

Acetone

Concen: 13.667 ug/l

RT: 3.930 min Scan# 34

Delta R.T. -0.006 min

Lab File: VY018829.D

Acq: 16 Jul 2024 13:51

Instrument :

MSVOA_Y

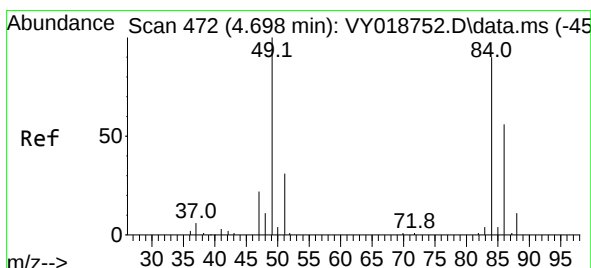
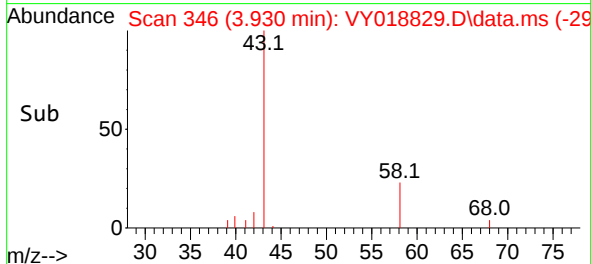
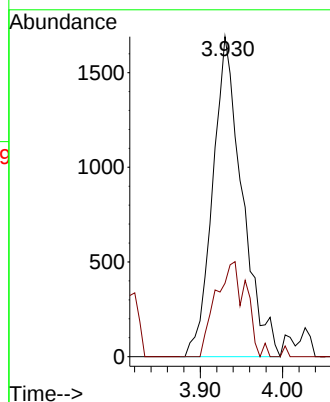
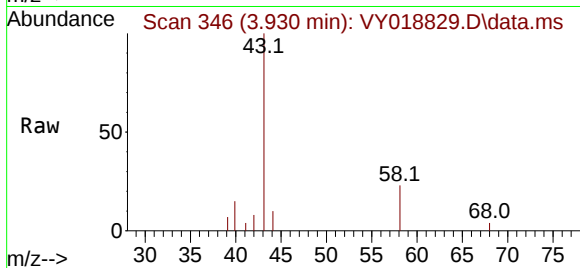
ClientSampleId :

Tgt Ion: 43 Resp: 4206

Ion Ratio Lower Upper

43 100

58 23.0 31.7 47.5#



#20

Methylene Chloride

Concen: 1.282 ug/l

RT: 4.686 min Scan# 470

Delta R.T. -0.012 min

Lab File: VY018829.D

Acq: 16 Jul 2024 13:51

Tgt Ion: 84 Resp: 10663

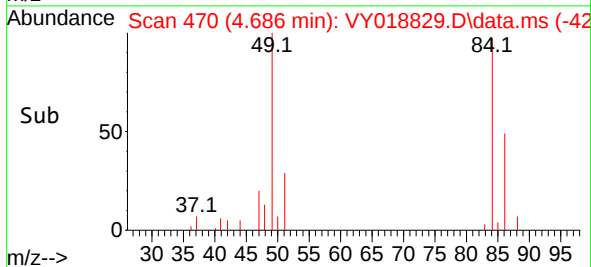
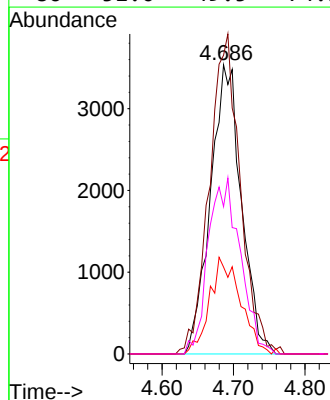
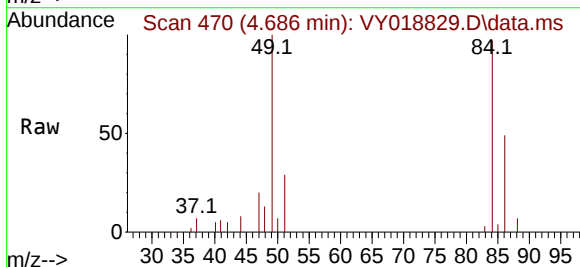
Ion Ratio Lower Upper

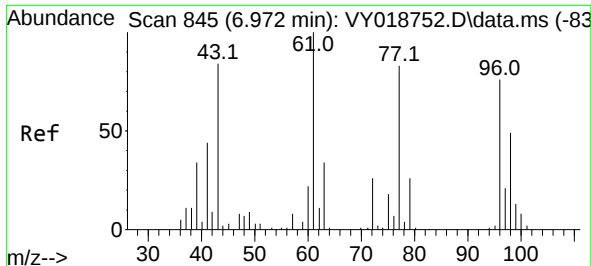
84 100

49 101.7 84.4 126.6

51 30.1 26.0 39.0

86 51.0 49.5 74.3

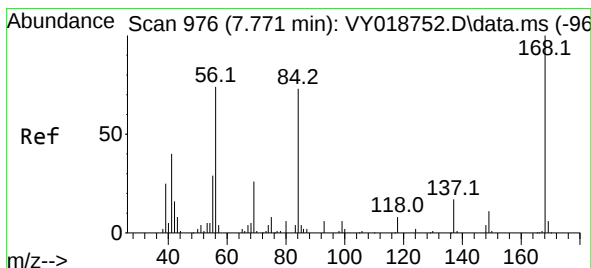
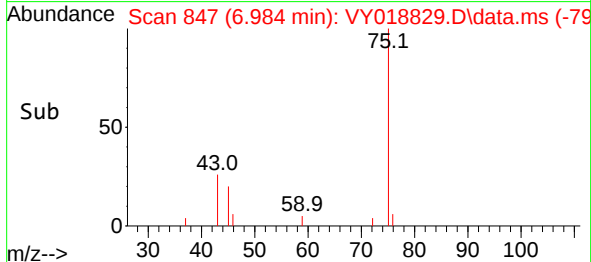
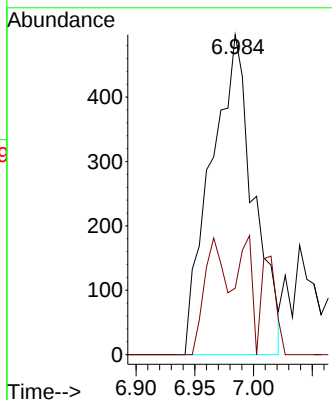
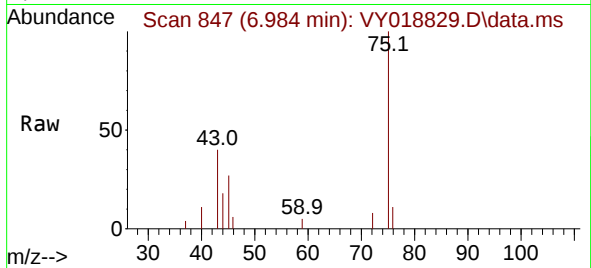




#25
2-Butanone
Concen: 2.905 ug/l
RT: 6.984 min Scan# 845
Delta R.T. 0.012 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

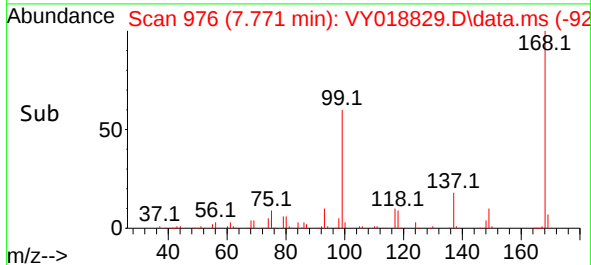
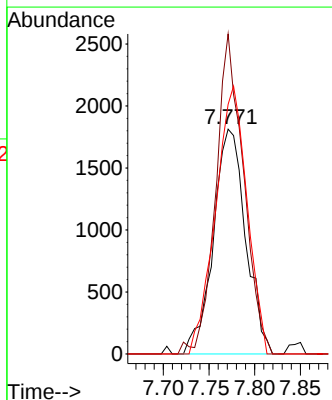
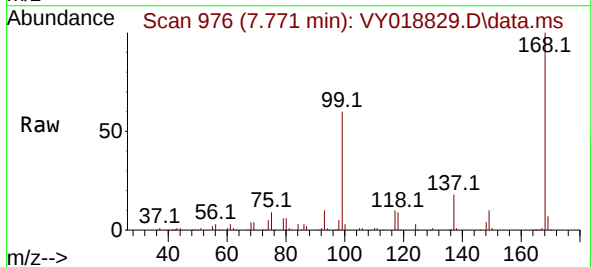
Instrument :
MSVOA_Y
ClientSampleId :

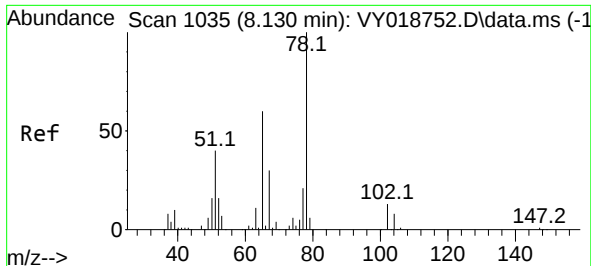
Tgt Ion: 43 Resp: 1253
Ion Ratio Lower Upper
43 100
72 20.7 27.3 40.9#



#31
Cyclohexane
Concen: 1.744 ug/l
RT: 7.771 min Scan# 976
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 56 Resp: 4473
Ion Ratio Lower Upper
56 100
69 142.4 28.7 43.1#
84 111.0 77.7 116.5





#33

1,2-Dichloroethane-d4

Concen: 52.797 ug/l

RT: 8.130 min Scan# 1035

Delta R.T. 0.000 min

Lab File: VY018829.D

Acq: 16 Jul 2024 13:51

Instrument :

MSVOA_Y

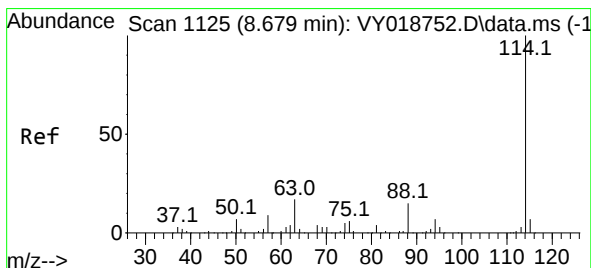
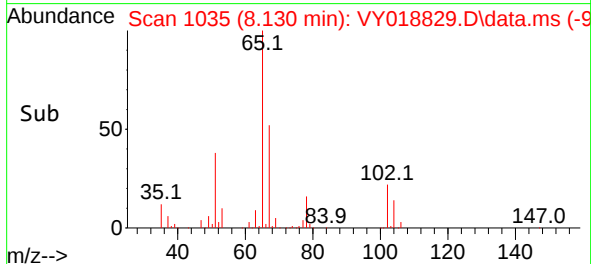
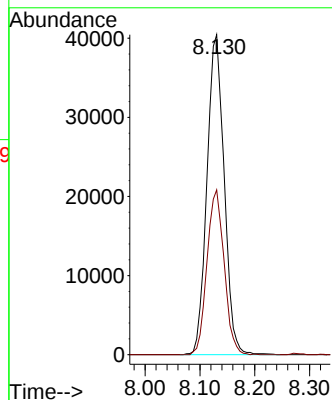
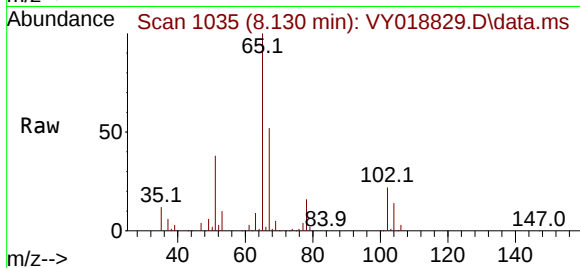
ClientSampleId :

Tgt Ion: 65 Resp: 88129

Ion Ratio Lower Upper

65 100

67 51.2 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.679 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VY018829.D

Acq: 16 Jul 2024 13:51

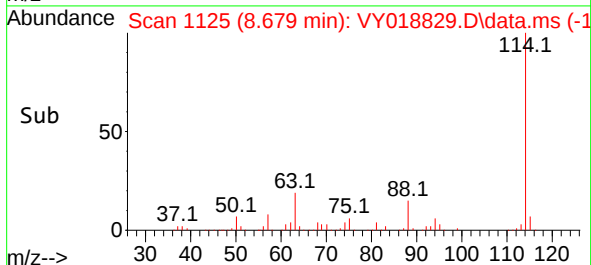
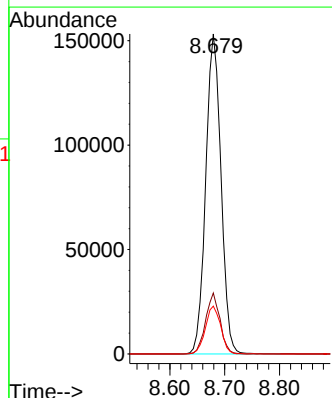
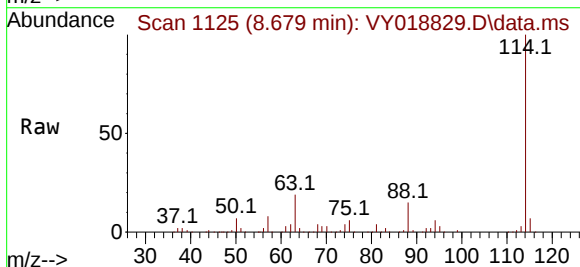
Tgt Ion: 114 Resp: 295365

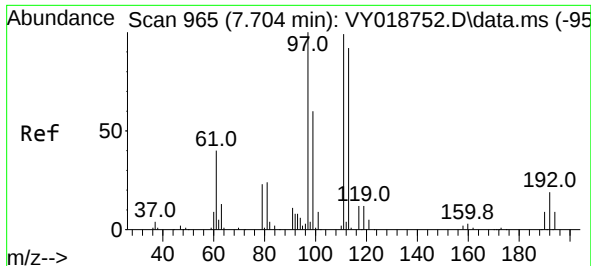
Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.0

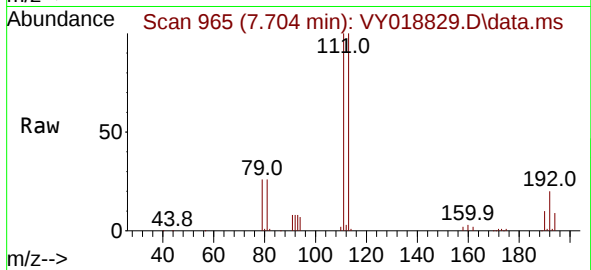
88 15.0 0.0 27.2



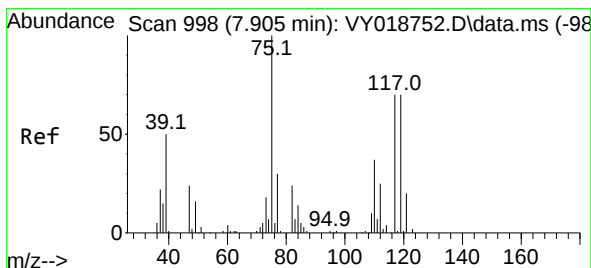
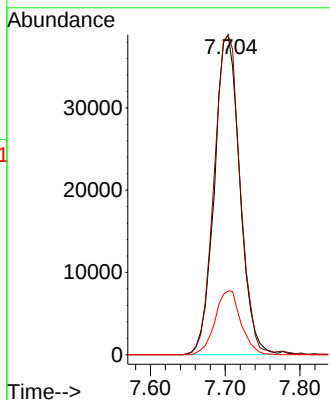
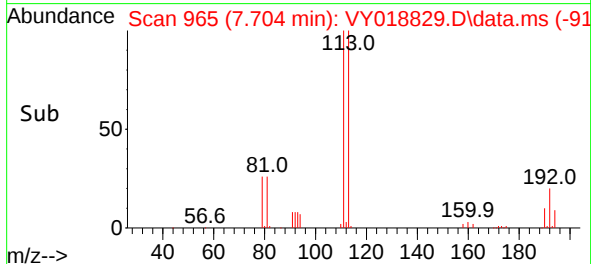


#35
Dibromofluoromethane
Concen: 49.548 ug/l
RT: 7.704 min Scan# 916
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Instrument :
MSVOA_Y
ClientSampleId :

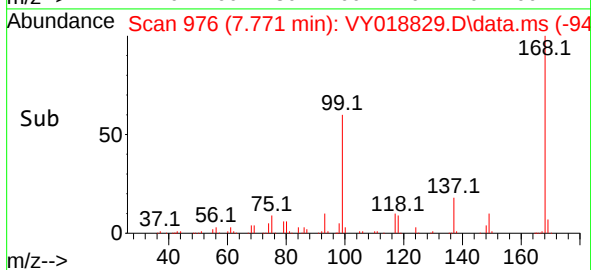
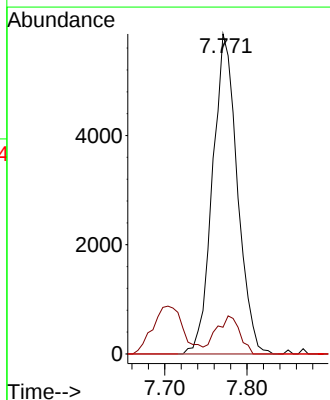
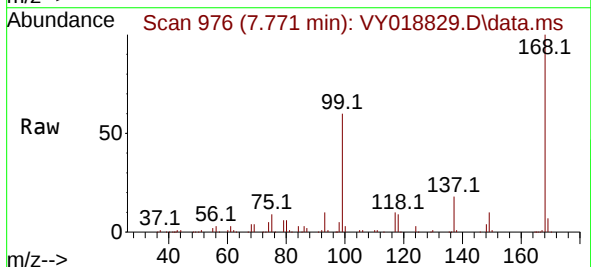


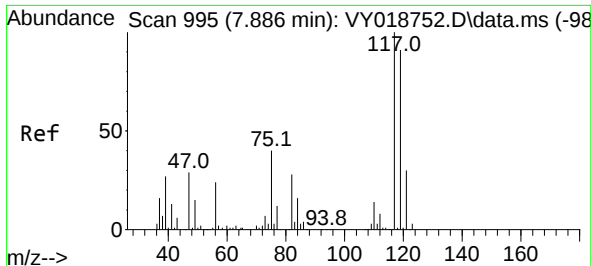
Tgt Ion:113 Resp: 91661
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.4
192 20.3 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.809 ug/l
RT: 7.771 min Scan# 976
Delta R.T. -0.134 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

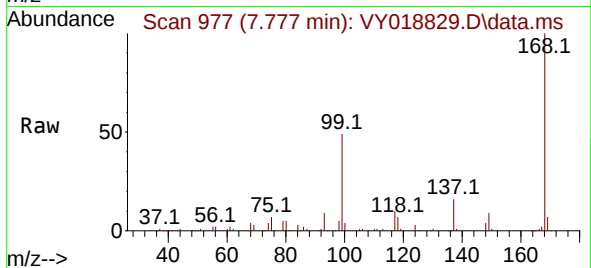
Tgt Ion: 75 Resp: 12276
Ion Ratio Lower Upper
75 100
110 11.2 19.0 57.0#
77 0.0 25.3 37.9#



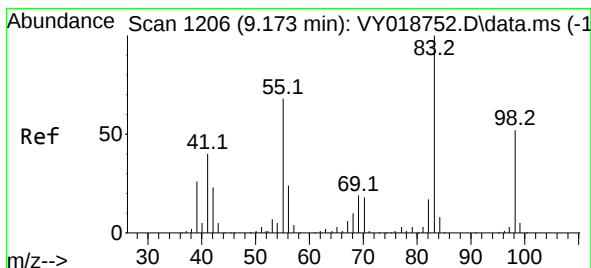
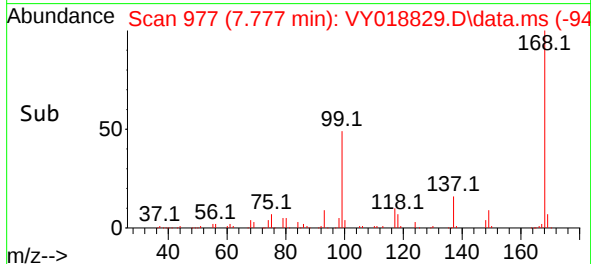
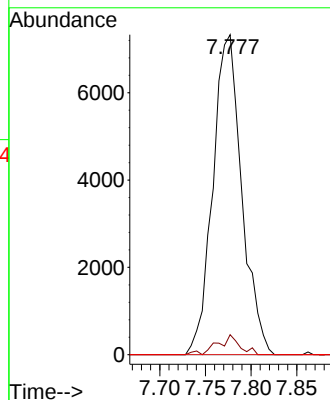


#38
Carbon Tetrachloride
Concen: 5.259 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

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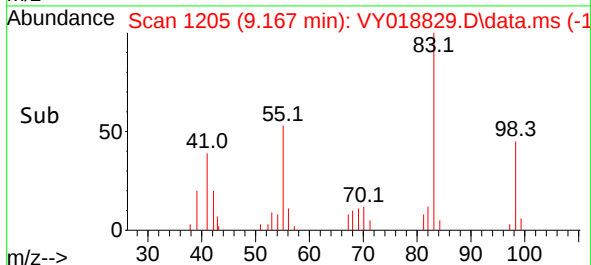
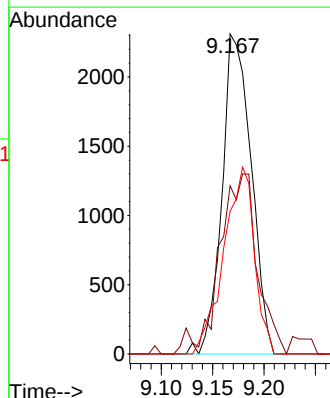
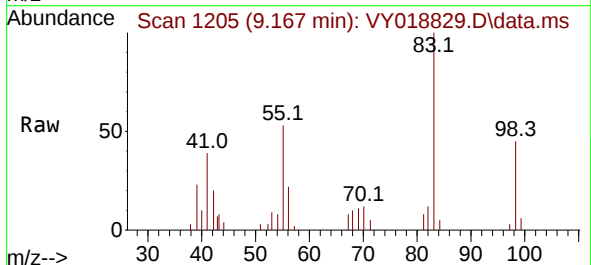


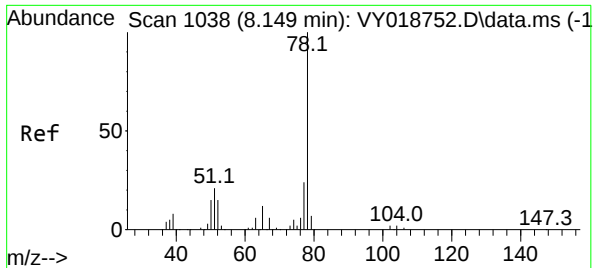
Tgt Ion:117 Resp: 16170
Ion Ratio Lower Upper
117 100
119 6.3 75.8 113.6#
121 0.0 24.0 36.0#



#39
Methylcyclohexane
Concen: 1.392 ug/l
RT: 9.167 min Scan# 1205
Delta R.T. -0.006 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 83 Resp: 4554
Ion Ratio Lower Upper
83 100
55 50.4 51.5 77.3#
98 44.6 40.5 60.7

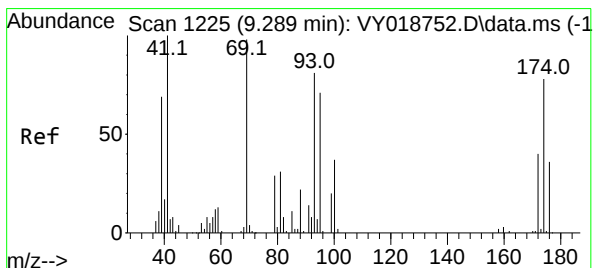
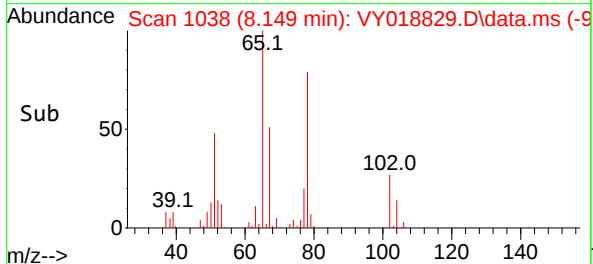
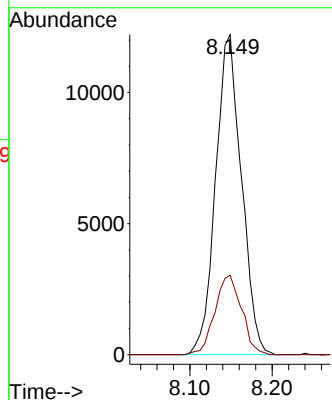
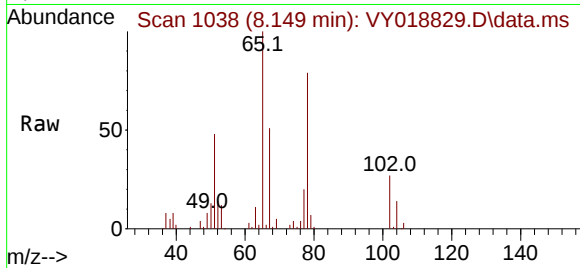




#40
Benzene
Concen: 3.594 ug/l
RT: 8.149 min Scan# 110
Delta R.T. -0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

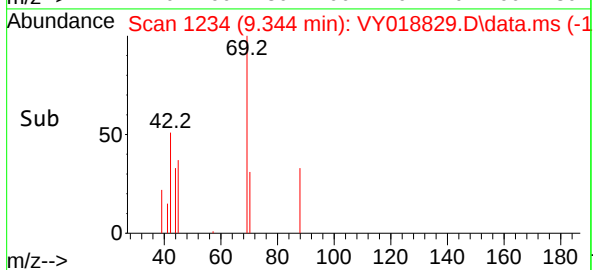
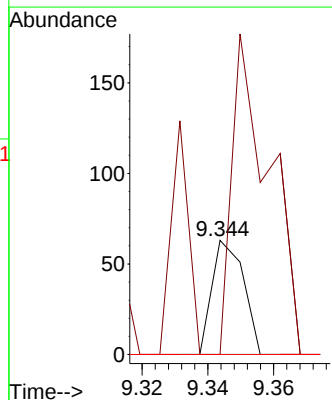
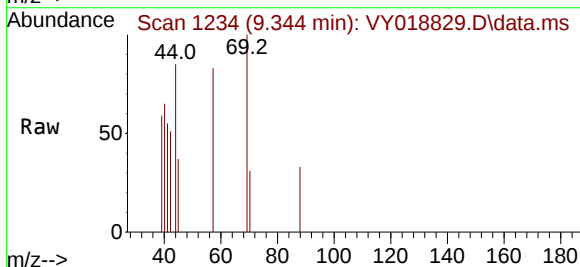
Instrument :
MSVOA_Y
ClientSampleId :

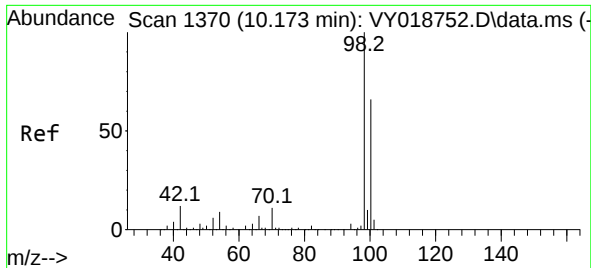
Tgt Ion: 78 Resp: 26619
Ion Ratio Lower Upper
78 100
77 24.9 19.5 29.3



#49
1,4-Dioxane
Concen: 3.428 ug/l
RT: 9.344 min Scan# 1234
Delta R.T. 0.055 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 333.3 0.0 0.0#
58 0.0 49.3 73.9#

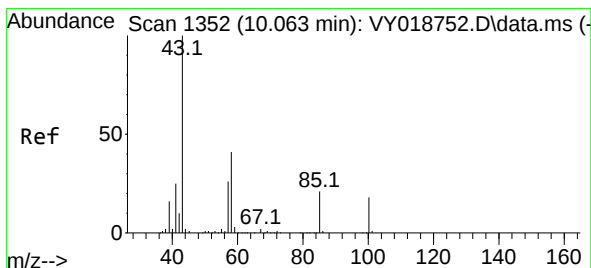
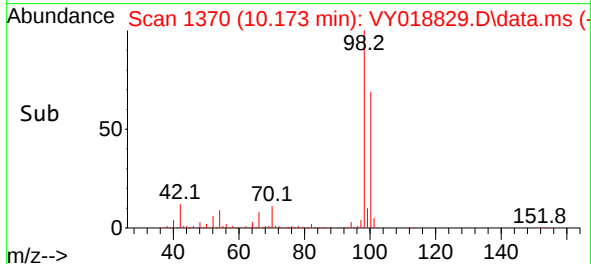
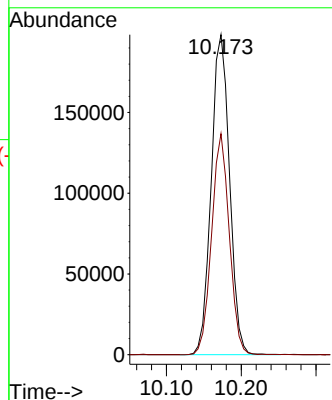
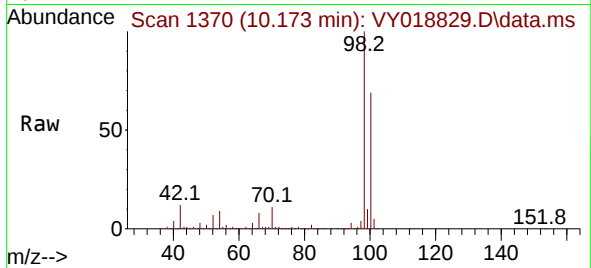




#50
Toluene-d8
Concen: 48.113 ug/l
RT: 10.173 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

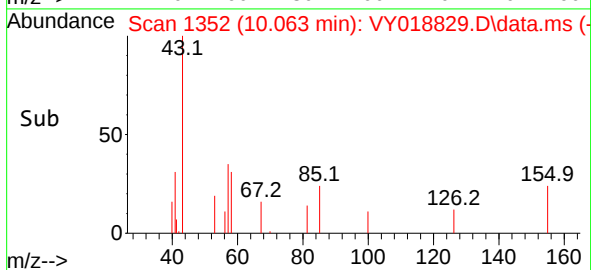
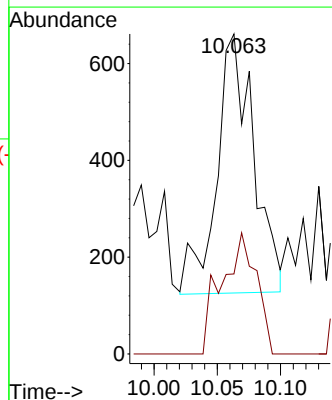
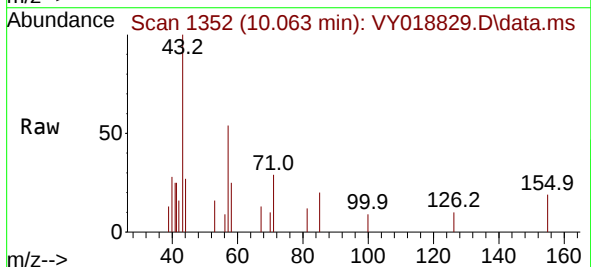
Instrument :
MSVOA_Y
ClientSampleId :

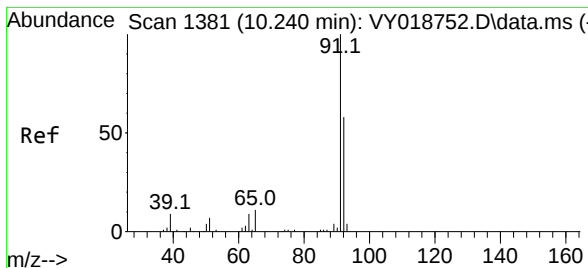
Tgt Ion: 98 Resp: 337208
Ion Ratio Lower Upper
98 100
100 66.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.009 ug/l
RT: 10.063 min Scan# 1352
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 43 Resp: 1088
Ion Ratio Lower Upper
43 100
58 43.9 35.7 53.5





#52

Toluene

Concen: 29.672 ug/l

RT: 10.240 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY018829.D

Acq: 16 Jul 2024 13:51

Instrument :

MSVOA_Y

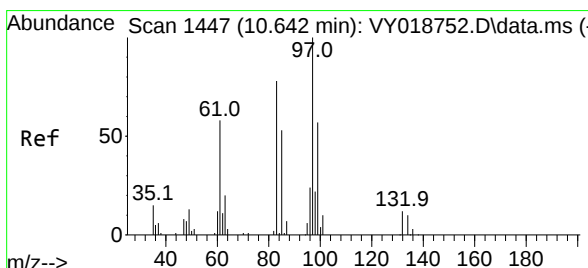
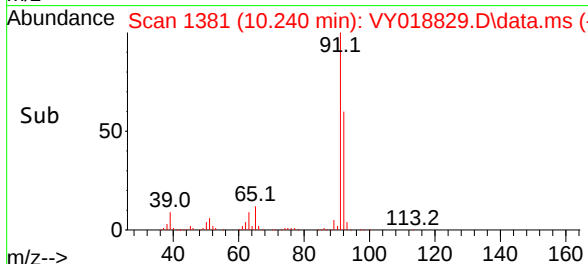
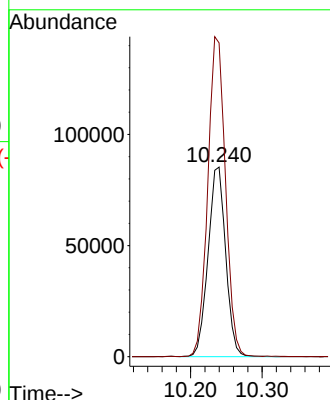
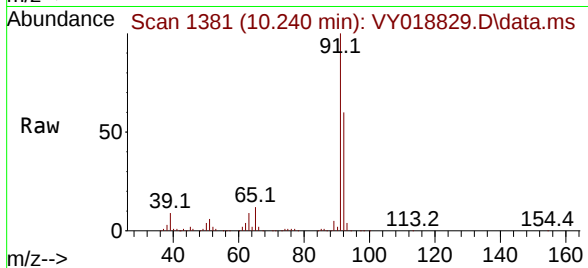
ClientSampleId :

Tgt Ion: 92 Resp: 146059

Ion Ratio Lower Upper

92 100

91 168.9 139.0 208.6



#55

1,1,2-Trichloroethane

Concen: 1.005 ug/l

RT: 10.612 min Scan# 1442

Delta R.T. -0.030 min

Lab File: VY018829.D

Acq: 16 Jul 2024 13:51

Tgt Ion: 97 Resp: 1331

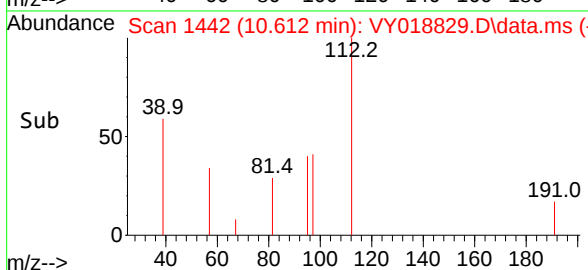
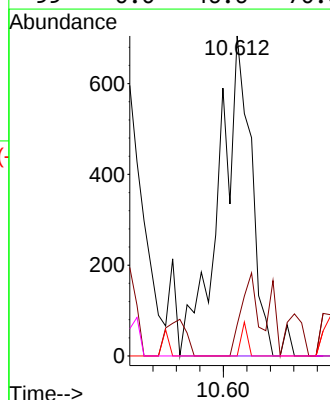
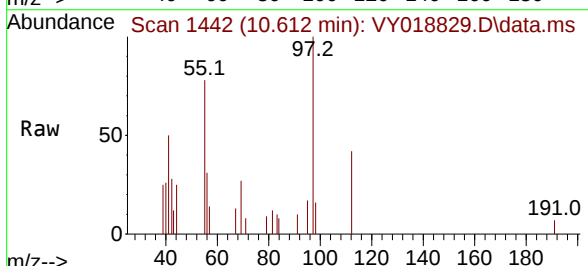
Ion Ratio Lower Upper

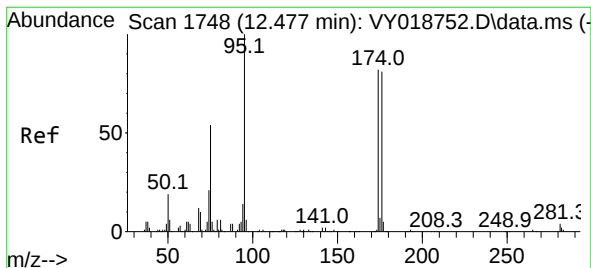
97 100

83 9.8 67.5 101.3#

85 0.0 42.9 64.3#

99 0.0 46.6 70.0#

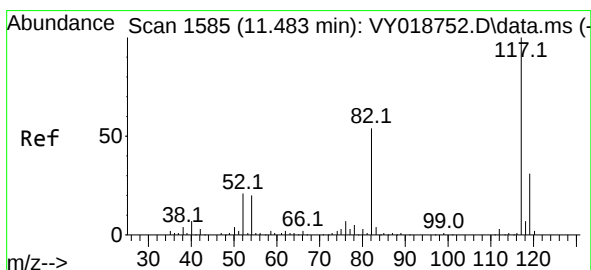
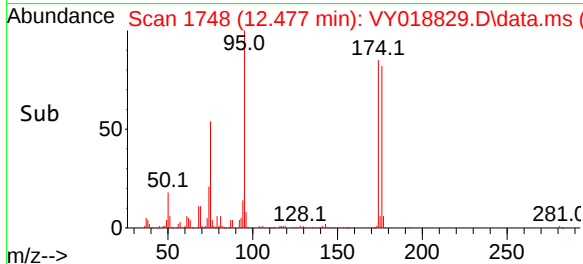
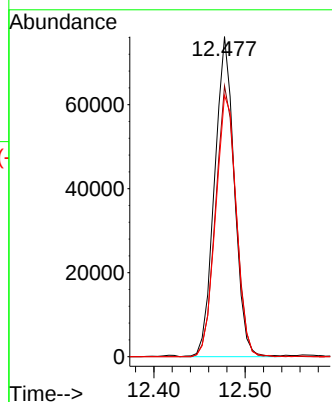
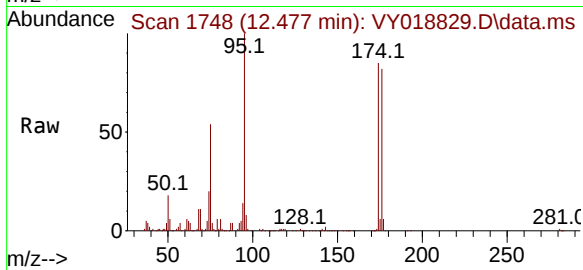




#62
4-Bromofluorobenzene
Concen: 47.873 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

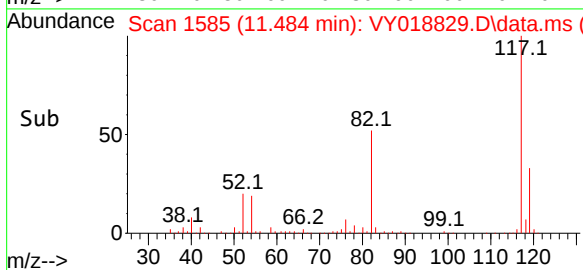
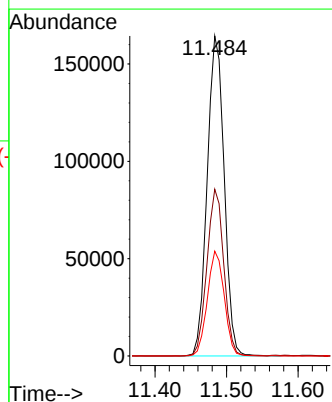
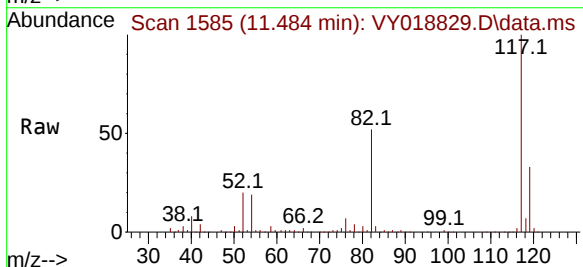
Instrument :
MSVOA_Y
ClientSampleId :

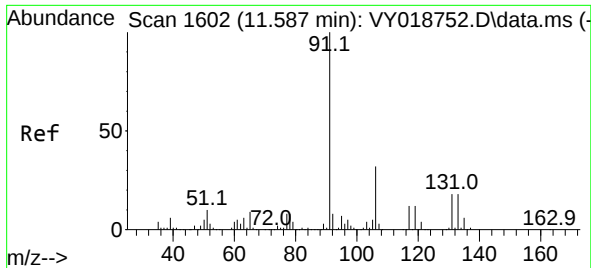
Tgt Ion: 95 Resp: 114582
Ion Ratio Lower Upper
95 100
174 87.0 0.0 175.6
176 85.4 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.484 min Scan# 1585
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 117 Resp: 271054
Ion Ratio Lower Upper
117 100
82 52.1 42.4 63.6
119 32.7 25.9 38.9

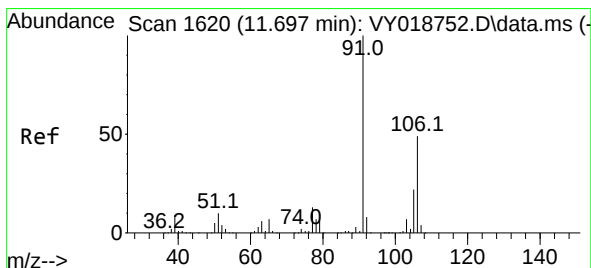
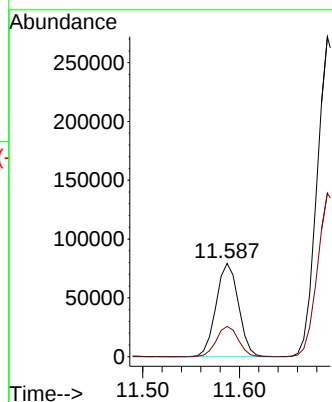
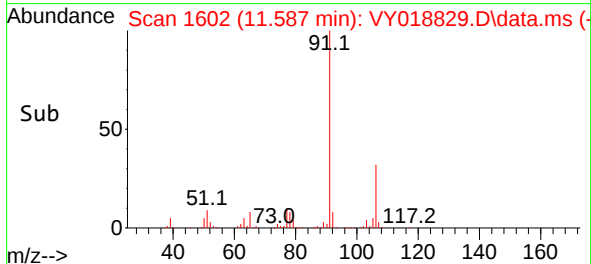
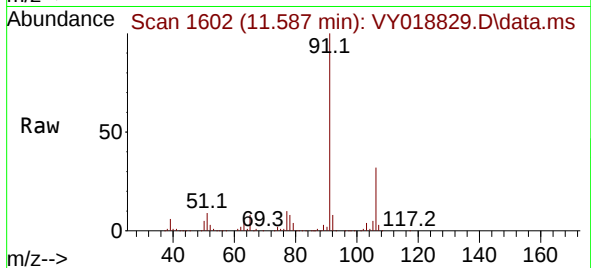




#67
Ethyl Benzene
Concen: 12.756 ug/l
RT: 11.587 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

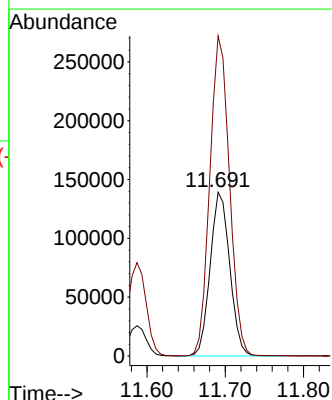
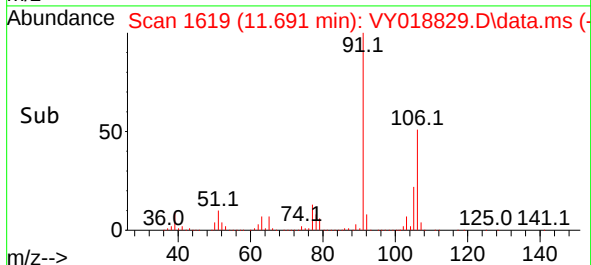
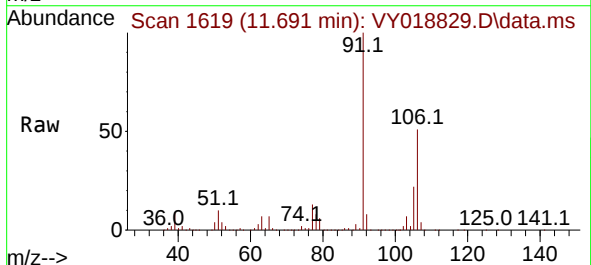
Instrument :
MSVOA_Y
ClientSampleId :

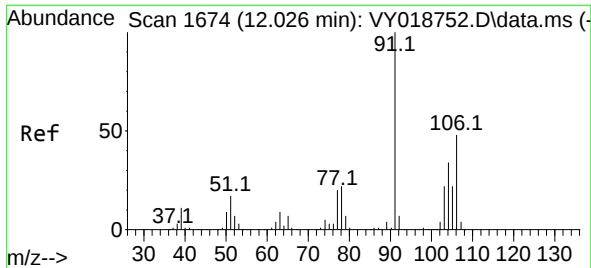
Tgt Ion: 91 Resp: 127772
Ion Ratio Lower Upper
91 100
106 32.3 24.5 36.7



#68
m/p-Xylenes
Concen: 61.306 ug/l
RT: 11.691 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 106 Resp: 240981
Ion Ratio Lower Upper
106 100
91 196.9 156.0 234.0

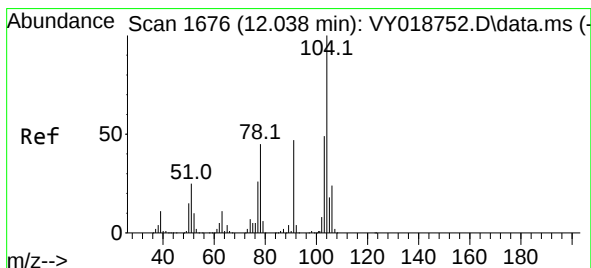
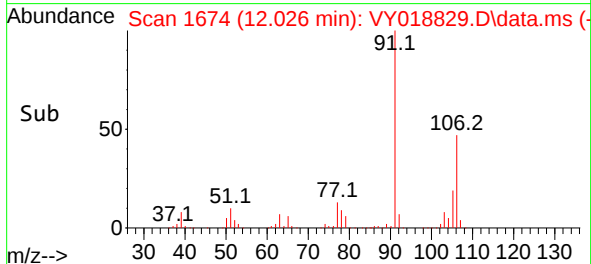
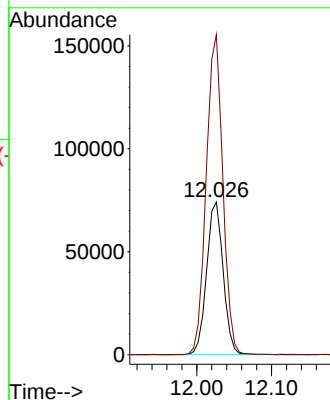
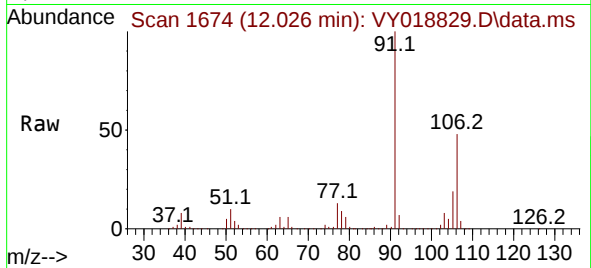




#69
o-Xylene
Concen: 30.818 ug/l
RT: 12.026 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

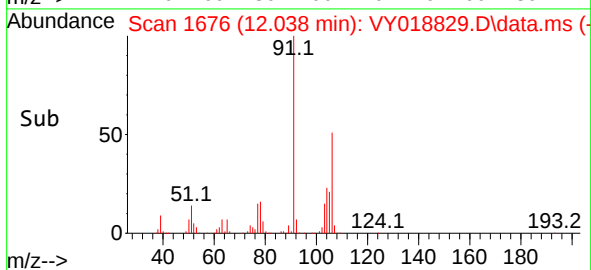
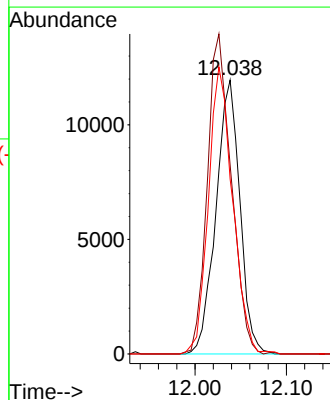
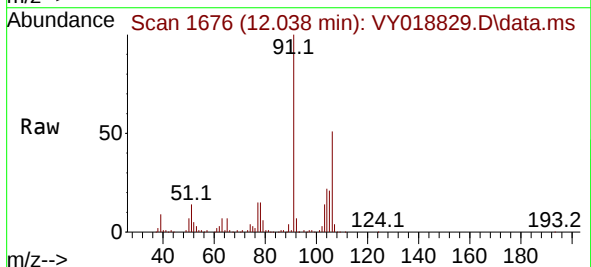
Instrument :
MSVOA_Y
ClientSampleId :

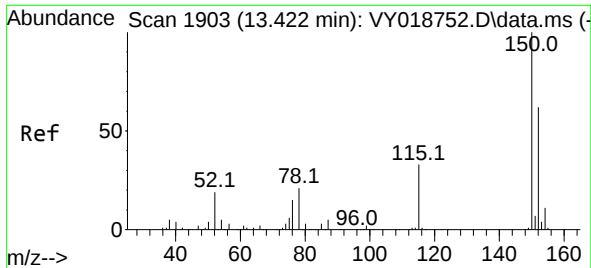
Tgt Ion:106 Resp: 113888
Ion Ratio Lower Upper
106 100
91 210.7 103.6 310.8



#70
Styrene
Concen: 3.523 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

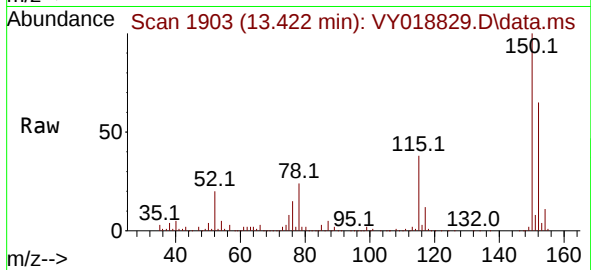
Tgt Ion:104 Resp: 21721
Ion Ratio Lower Upper
104 100
78 117.2 37.0 55.4#
103 106.2 44.2 66.2#



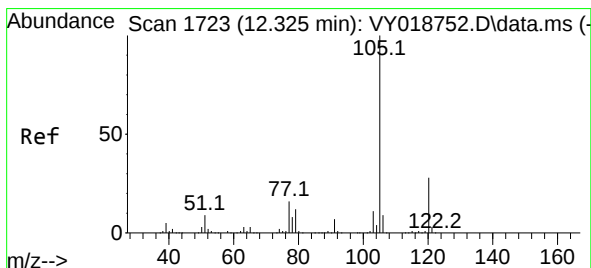
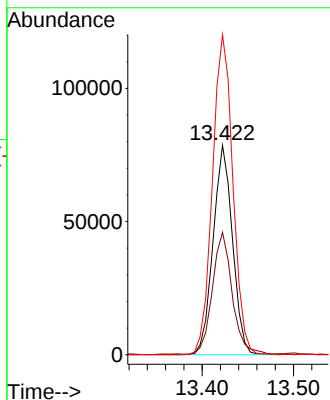
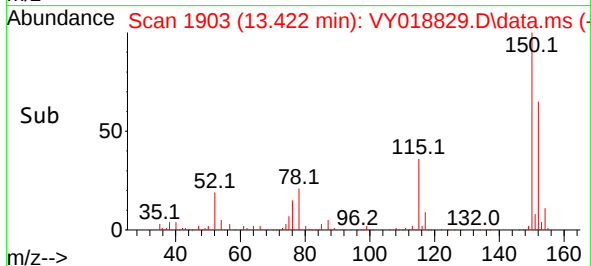


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Instrument :
MSVOA_Y
ClientSampleId :

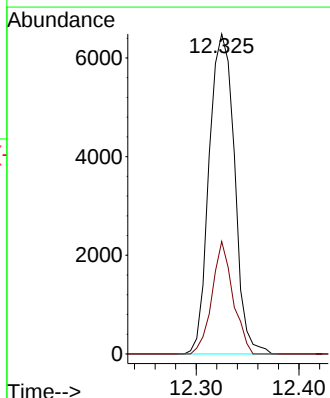
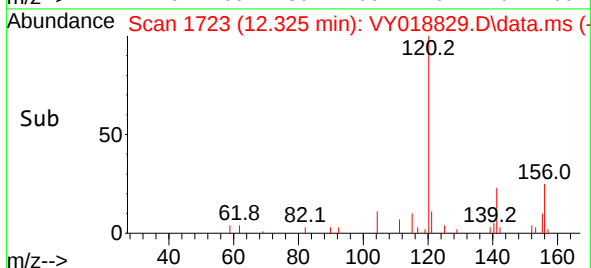
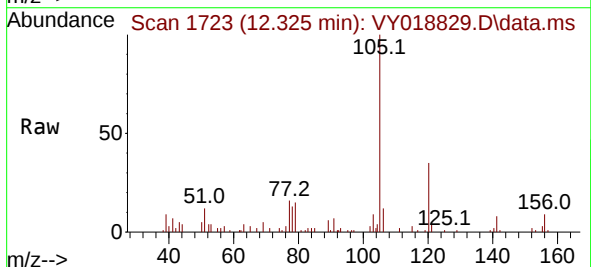


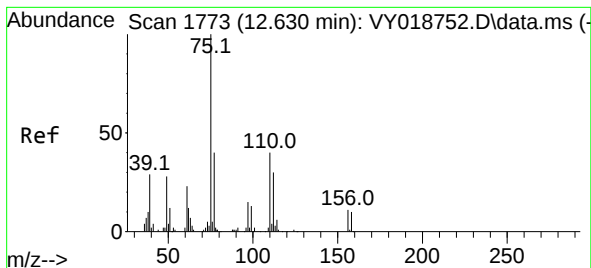
Tgt Ion:152 Resp: 115798
Ion Ratio Lower Upper
152 100
115 59.3 28.2 84.7
150 160.8 0.0 345.6



#73
Isopropylbenzene
Concen: 1.312 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion:105 Resp: 11117
Ion Ratio Lower Upper
105 100
120 29.0 13.4 40.1

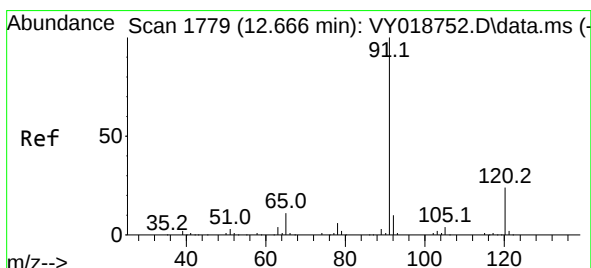
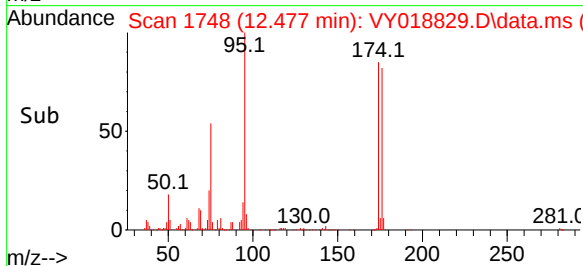
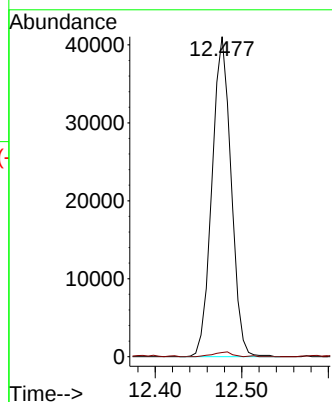
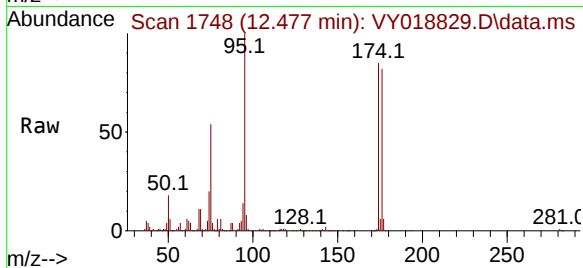




#76
1,2,3-Trichloropropane
Concen: 69.423 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.153 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

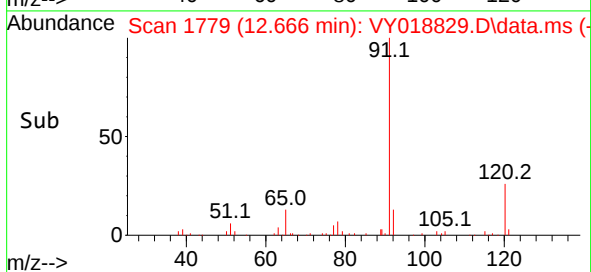
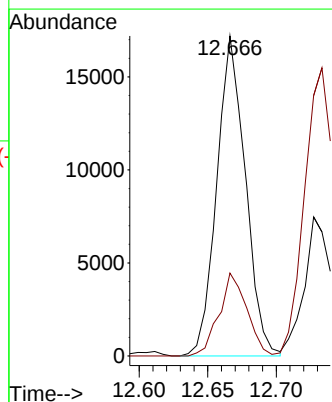
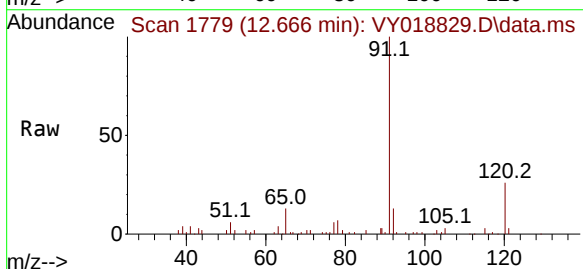
Instrument :
MSVOA_Y
ClientSampleId :

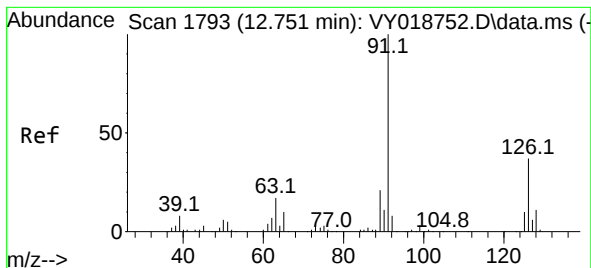
Tgt Ion: 75 Resp: 62963
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#78
n-propylbenzene
Concen: 2.482 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 91 Resp: 24978
Ion Ratio Lower Upper
91 100
120 25.1 11.5 34.4

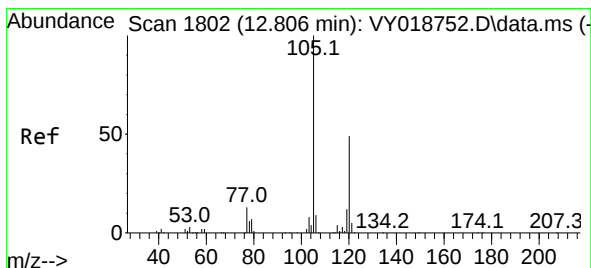
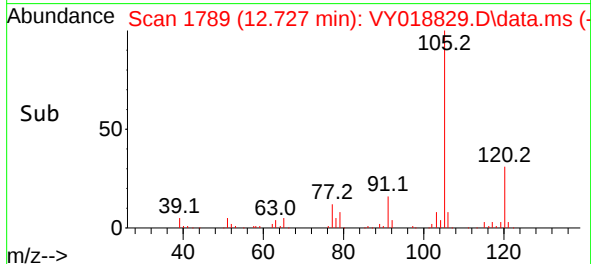
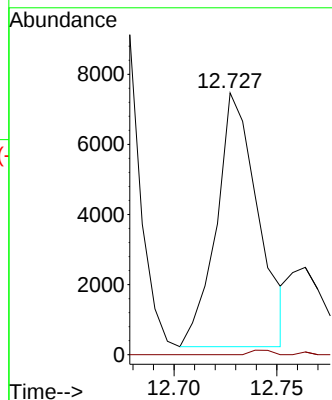
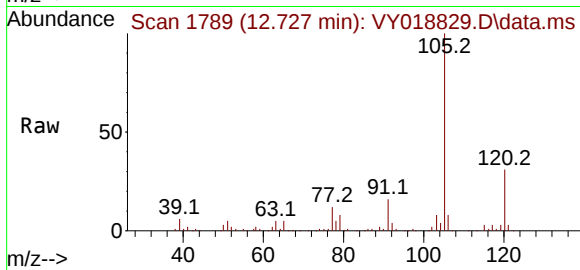




#79
2-Chlorotoluene
Concen: 1.802 ug/l
RT: 12.727 min Scan# 1789
Delta R.T. -0.024 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

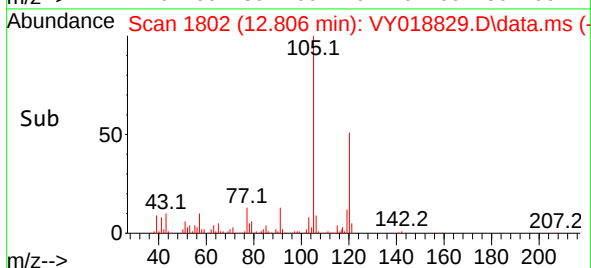
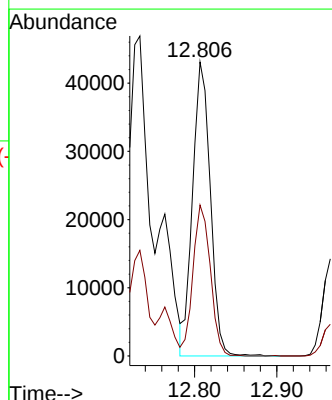
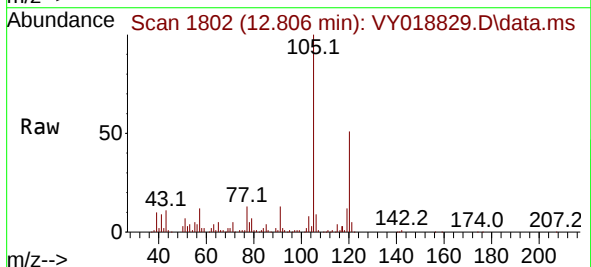
Instrument :
MSVOA_Y
ClientSampleId :

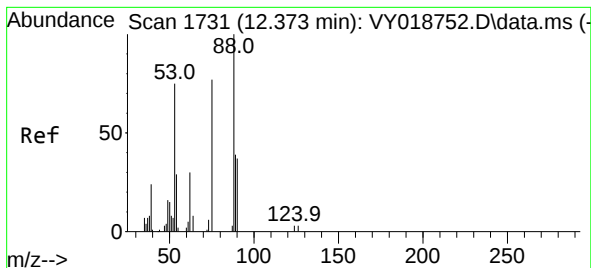
Tgt Ion: 91 Resp: 10196
Ion Ratio Lower Upper
91 100
126 0.9 17.8 53.5#



#80
1,3,5-Trimethylbenzene
Concen: 9.314 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion:105 Resp: 64587
Ion Ratio Lower Upper
105 100
120 50.5 25.1 75.2

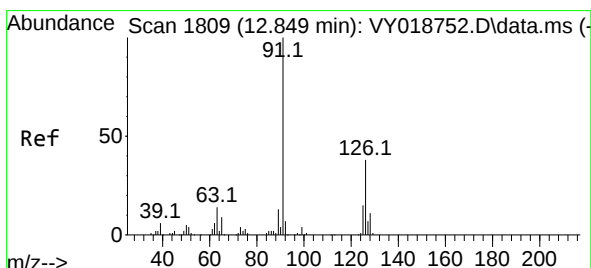
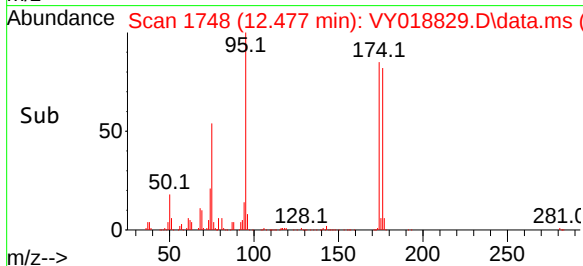
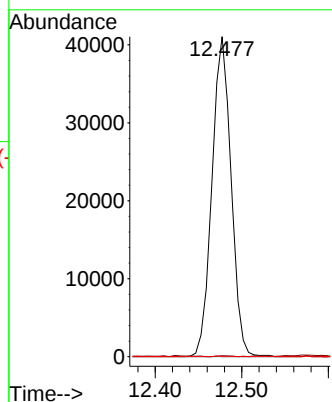
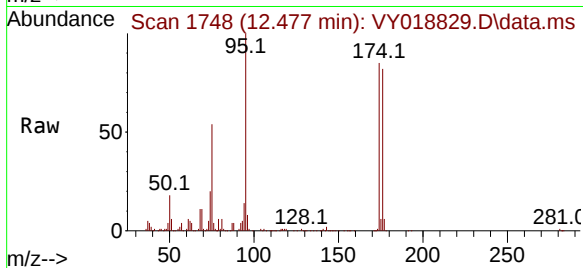




#81
trans-1,4-Dichloro-2-butene
Concen: 155.372 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

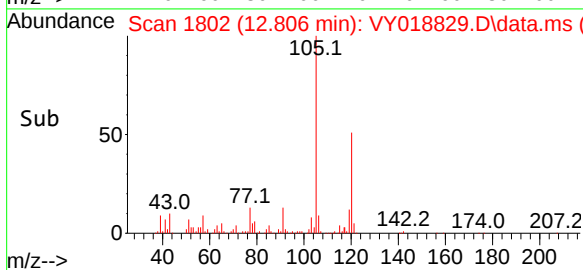
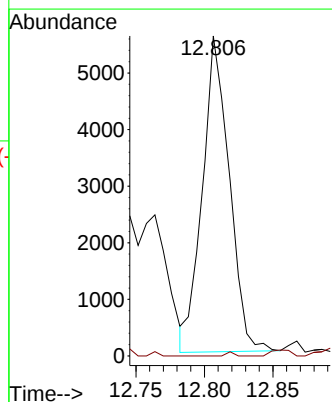
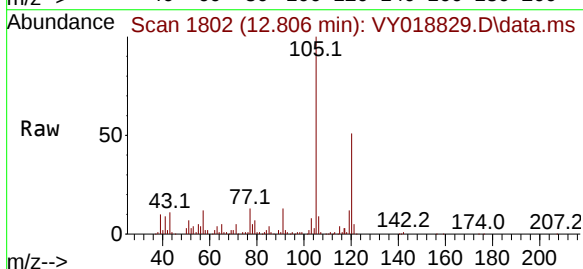
Instrument :
MSVOA_Y
ClientSampleId :

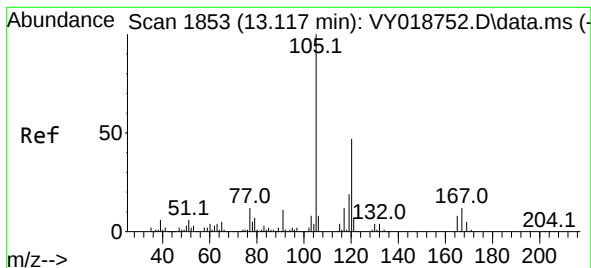
Tgt Ion: 75 Resp: 62963
Ion Ratio Lower Upper
75 100
53 0.2 66.8 100.2#
89 0.1 35.8 53.6#



#82
4-Chlorotoluene
Concen: 1.305 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.043 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Tgt Ion: 91 Resp: 7605
Ion Ratio Lower Upper
91 100
126 0.4 17.6 52.9#





#84

1,2,4-Trimethylbenzene

Concen: 19.073 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY018829.D

Acq: 16 Jul 2024 13:51

Instrument :

MSVOA_Y

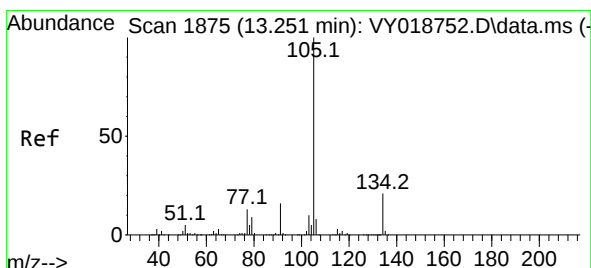
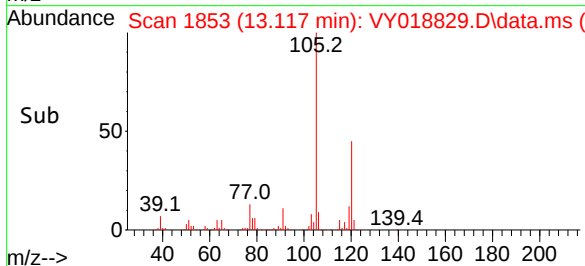
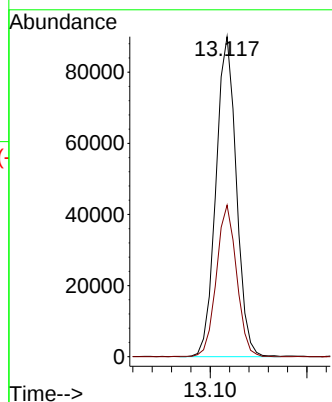
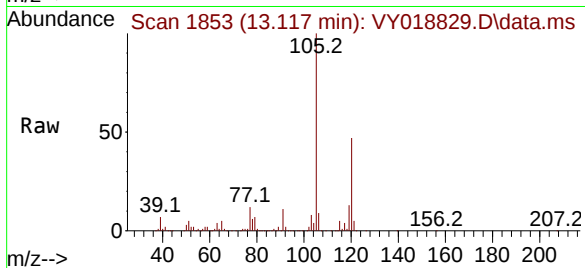
ClientSampleId :

Tgt Ion:105 Resp: 131425

Ion Ratio Lower Upper

105 100

120 47.0 23.2 69.6



#85

sec-Butylbenzene

Concen: 14.463 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.134 min

Lab File: VY018829.D

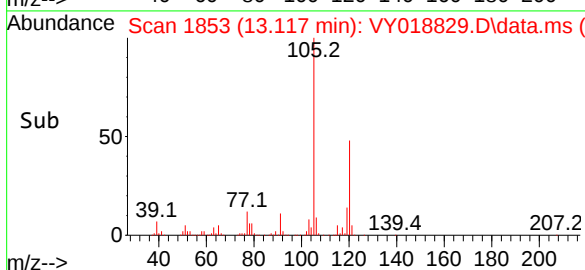
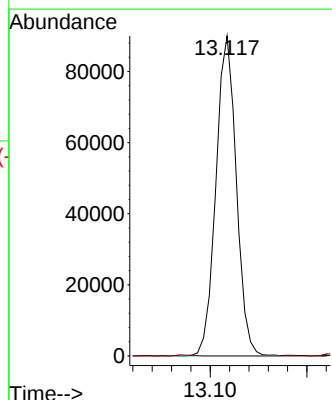
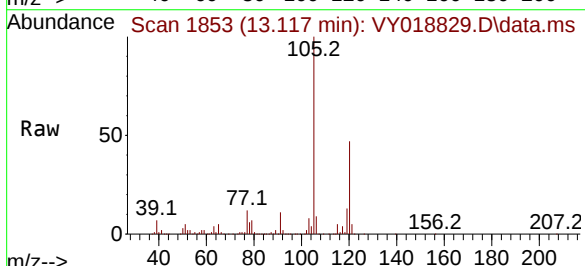
Acq: 16 Jul 2024 13:51

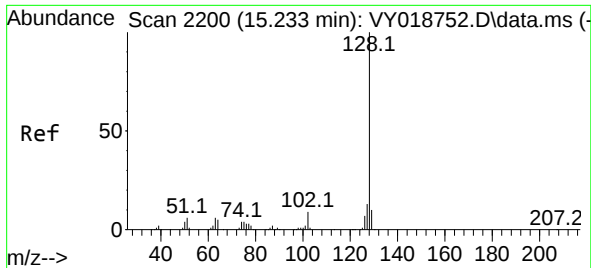
Tgt Ion:105 Resp: 131425

Ion Ratio Lower Upper

105 100

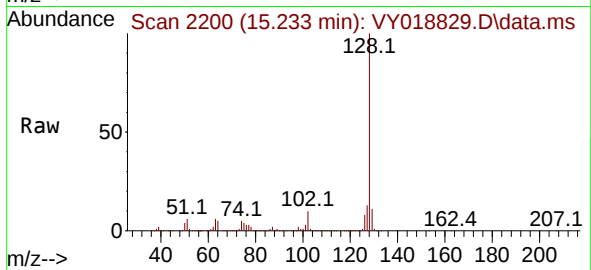
134 0.0 10.1 30.1#





#95
Naphthalene
Concen: 393.586 ug/l
RT: 15.233 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY018829.D
Acq: 16 Jul 2024 13:51

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 1414773
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 11.0 8.6 13.0

