

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122922\
 Data File : VY012031.D
 Acq On : 29 Dec 2022 16:25
 Operator : KP/MD
 Sample : N6230-01
 Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C-1

Quant Time: Dec 30 04:00:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122022S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 20 12:37:37 2022
 Response via : Initial Calibration

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

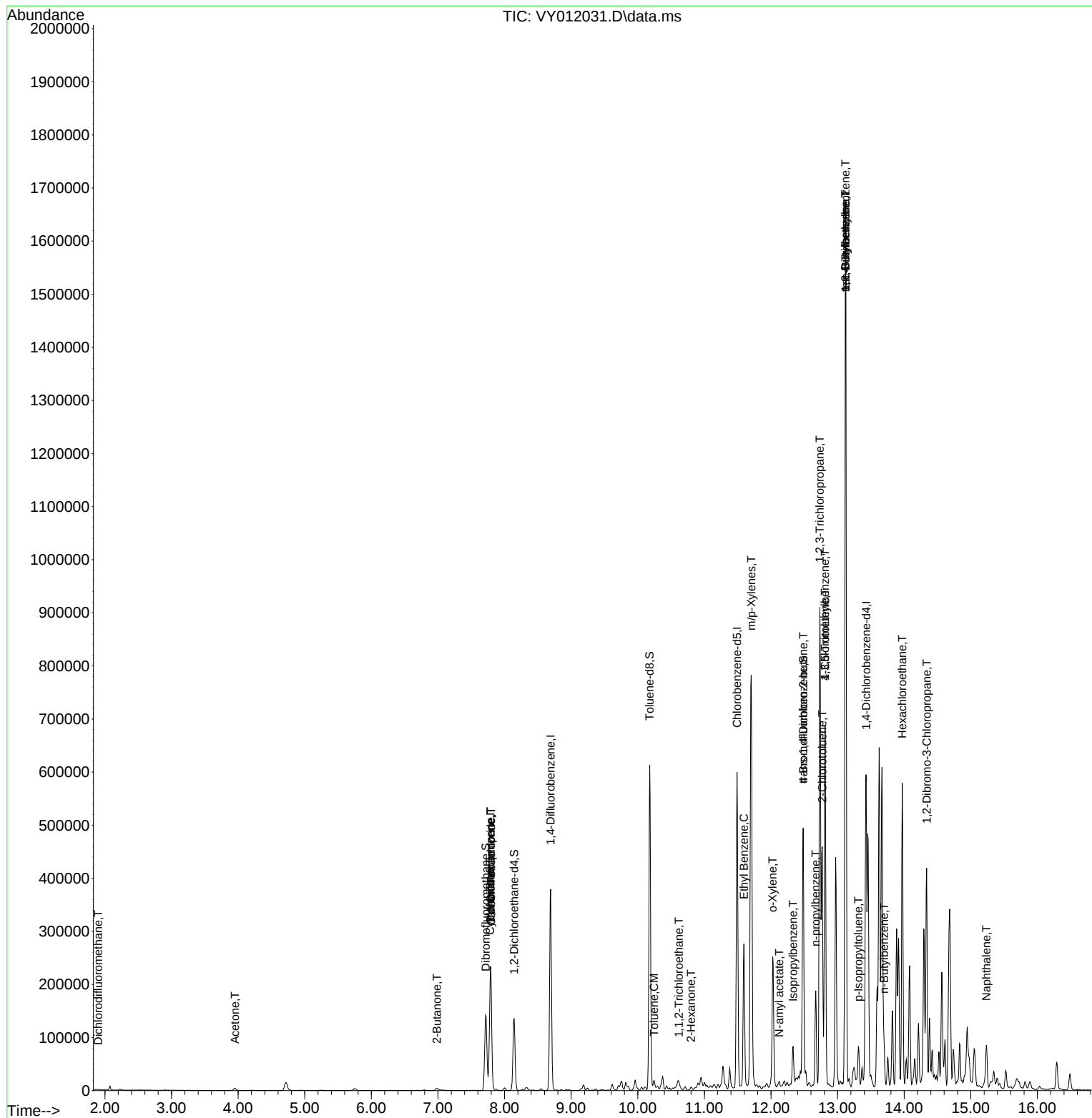
Internal Standards						
1) Pentafluorobenzene	7.789	168	183921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	323310	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	321557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	153722	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	110631	59.705	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 119.400%	
35) Dibromofluoromethane	7.716	113	98430	50.570	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.140%	
50) Toluene-d8	10.179	98	399012	50.527	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 101.060%	
62) 4-Bromofluorobenzene	12.483	95	143115	53.885	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 107.760%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	145	2.561	ug/l #	41
11) Tert butyl alcohol	4.942	59	430	Below Cal	#	74
16) Acetone	3.954	43	7504	18.174	ug/l	95
20) Methylene Chloride	4.716	84	12524	Below Cal		86
25) 2-Butanone	6.984	43	1738	2.816	ug/l #	86
31) Cyclohexane	7.783	56	4490	1.439	ug/l #	43
36) 1,1-Dichloropropene	7.789	75	13101	4.196	ug/l #	50
38) Carbon Tetrachloride	7.795	117	17994	4.990	ug/l #	17
52) Toluene	10.246	92	7508	1.319	ug/l	95
55) 1,1,2-Trichloroethane	10.618	97	3279	1.943	ug/l #	23
59) 2-Hexanone	10.801	43	2404	2.396	ug/l #	23
67) Ethyl Benzene	11.593	91	178147	14.761	ug/l	98
68) m/p-Xylenes	11.703	106	242488	51.663	ug/l	100
69) o-Xylene	12.026	106	65253	14.942	ug/l	98
73) Isopropylbenzene	12.331	105	47088	4.128	ug/l	99
74) N-amyl acetate	12.124	43	2595	1.110	ug/l #	70
76) 1,2,3-Trichloropropane	12.733	75	4872	2.547	ug/l #	100
78) n-propylbenzene	12.672	91	131196	9.568	ug/l	99
79) 2-Chlorotoluene	12.770	91	24494	3.178	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.813	105	332318	34.027	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	76214	109.113	ug/l #	13
82) 4-Chlorotoluene	12.813	91	37165	4.660	ug/l #	41
83) tert-Butylbenzene	13.117	119	110188	13.313	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.117	105	898871	93.554	ug/l	99
85) sec-Butylbenzene	13.117	105	898871	72.727	ug/l #	56
86) p-Isopropyltoluene	13.312	119	38186	3.662	ug/l	96
89) n-Butylbenzene	13.697	91	33427	3.541	ug/l #	57
90) Hexachloroethane	13.971	117	26366	13.250	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.337	75	1404	4.293	ug/l #	1
95) Naphthalene	15.233	128	64381	13.518	ug/l	99

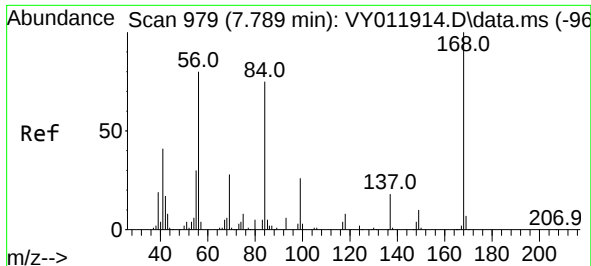
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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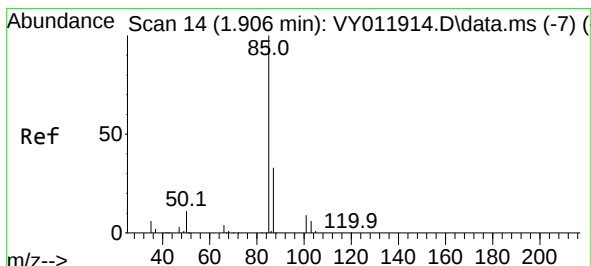
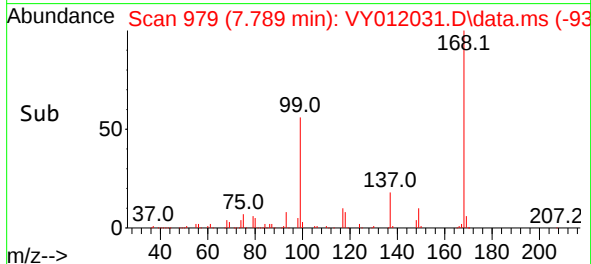
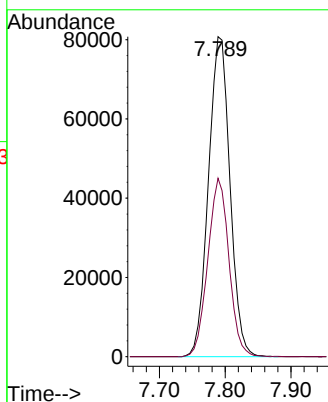
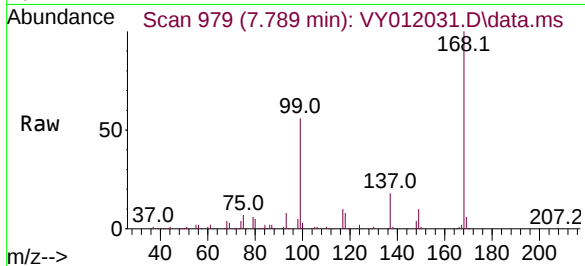




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

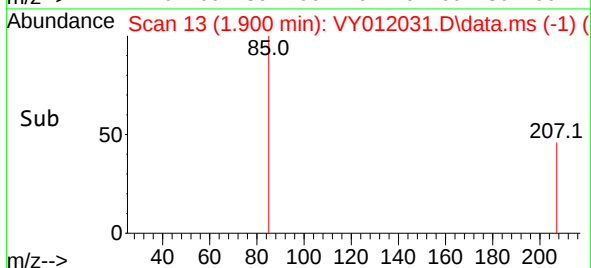
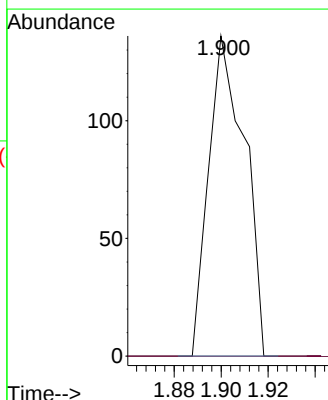
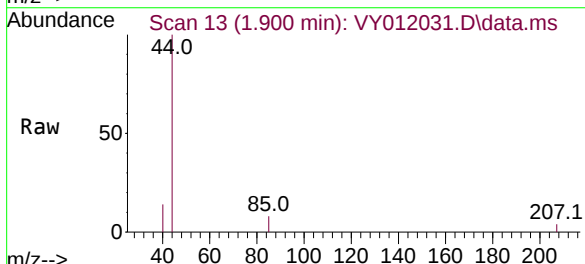
Instrument :
MSVOA_Y
ClientSampleId :
C-1

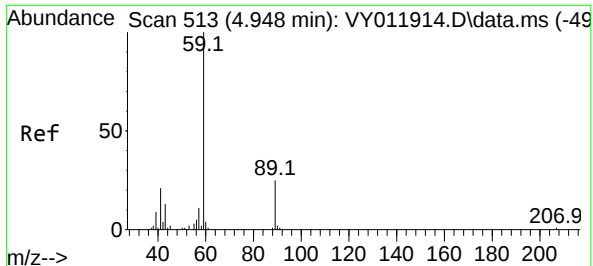
Tgt Ion:168 Resp: 183921
Ion Ratio Lower Upper
168 100
99 55.8 44.0 66.0



#2
Dichlorodifluoromethane
Concen: 2.561 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 85 Resp: 145
Ion Ratio Lower Upper
85 100
87 0.0 16.8 50.4#

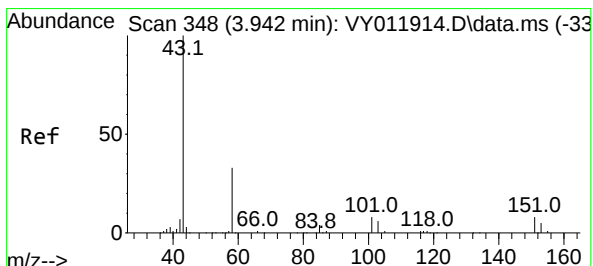
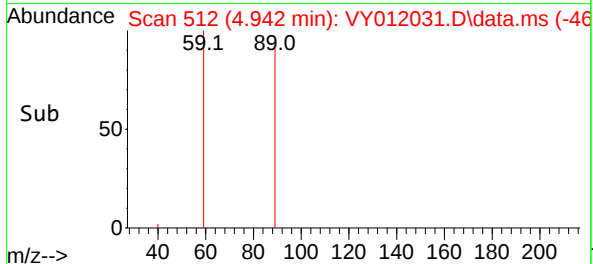
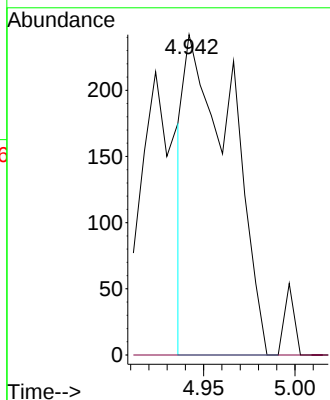
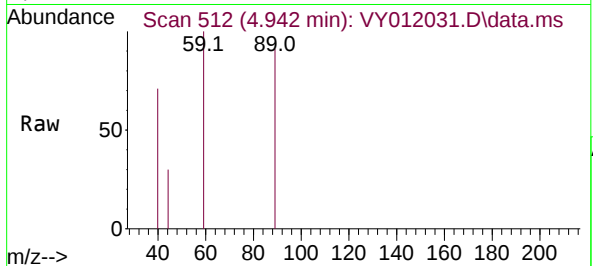




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.942 min Scan# 51
Delta R.T. -0.006 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

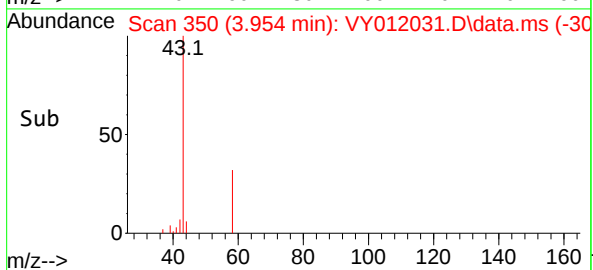
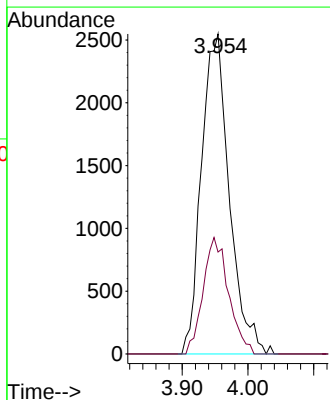
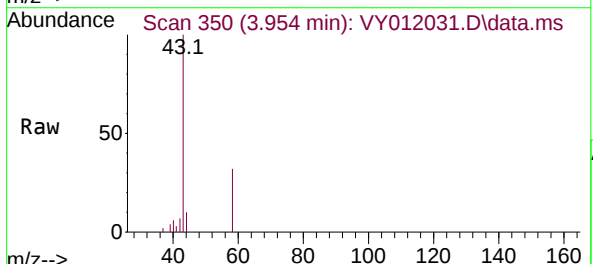
Instrument :
MSVOA_Y
ClientSampleId :
C-1

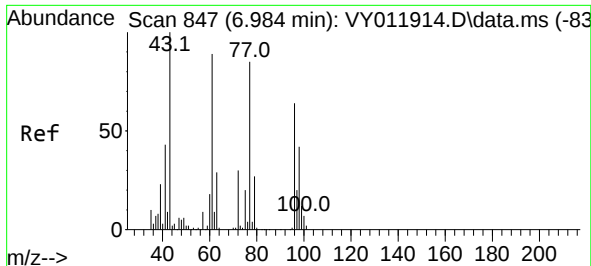
Tgt Ion: 59 Resp: 430
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#16
Acetone
Concen: 18.174 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.006 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 43 Resp: 7504
Ion Ratio Lower Upper
43 100
58 31.9 27.9 41.9

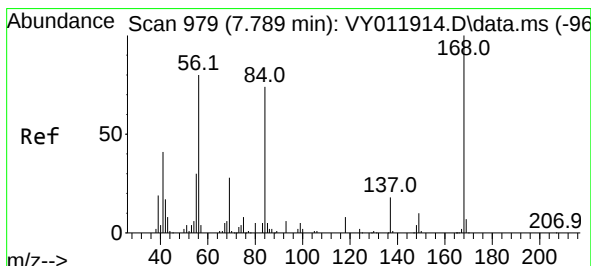
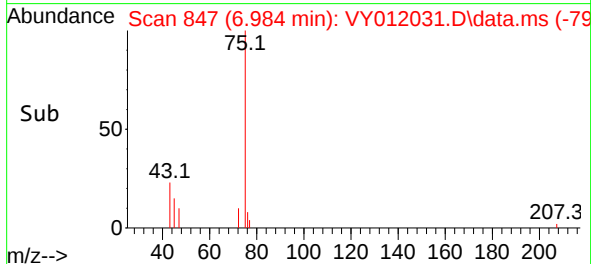
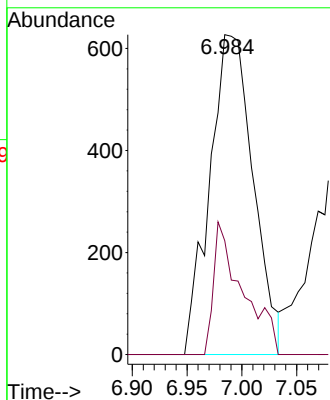
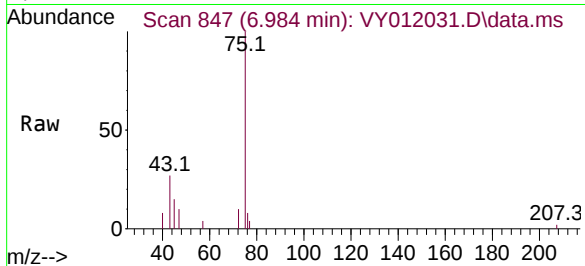




#25
2-Butanone
Concen: 2.816 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

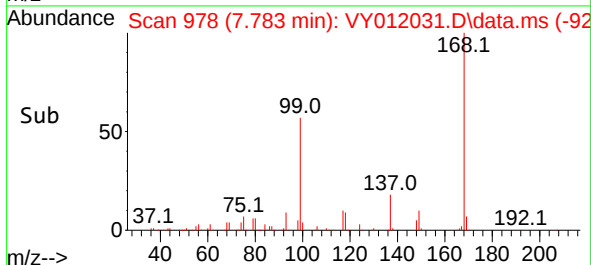
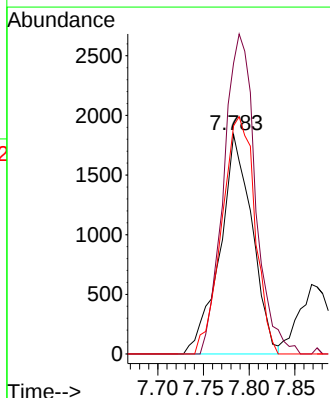
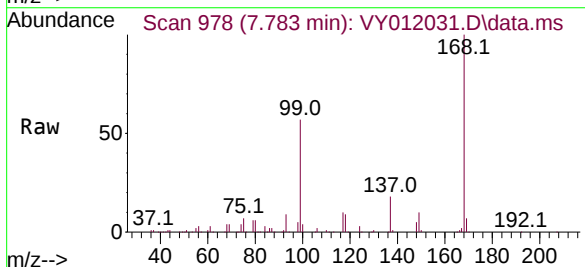
Instrument :
MSVOA_Y
ClientSampleId :
C-1

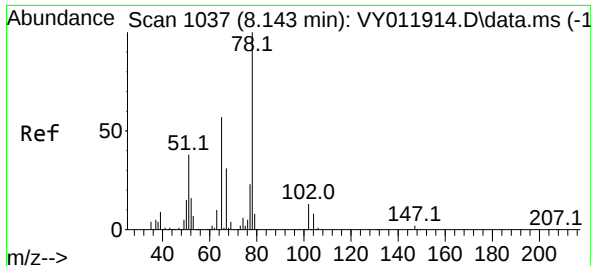
Tgt Ion: 43 Resp: 1738
Ion Ratio Lower Upper
43 100
72 35.6 22.6 34.0#



#31
Cyclohexane
Concen: 1.439 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 56 Resp: 4490
Ion Ratio Lower Upper
56 100
69 132.5 29.2 43.8#
84 104.0 72.6 108.8





#33

1,2-Dichloroethane-d4

Concen: 59.705 ug/l

RT: 8.143 min Scan# 110631

Delta R.T. -0.000 min

Lab File: VY012031.D

Acq: 29 Dec 2022 16:25

Instrument :

MSVOA_Y

ClientSampleId :

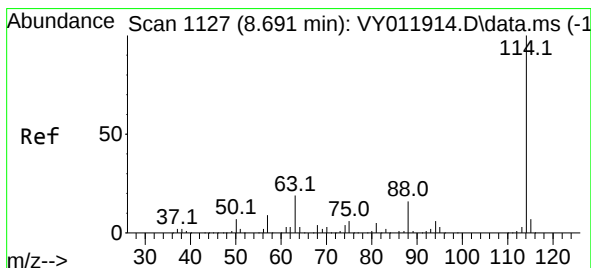
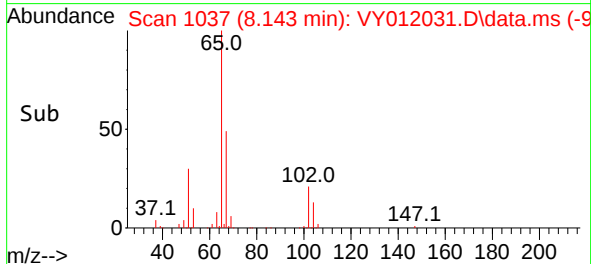
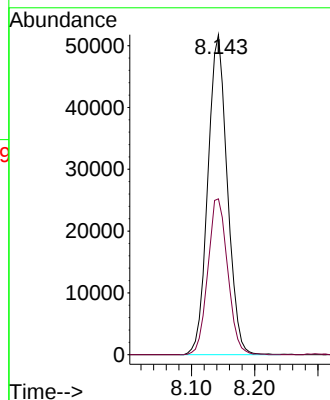
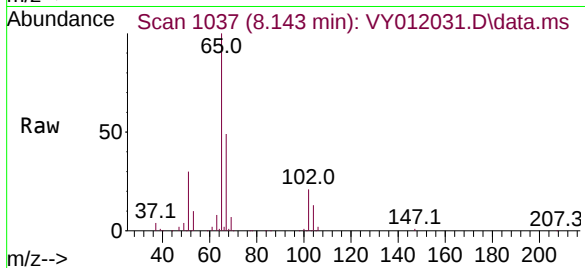
C-1

Tgt Ion: 65 Resp: 110631

Ion Ratio Lower Upper

65 100

67 49.7 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY012031.D

Acq: 29 Dec 2022 16:25

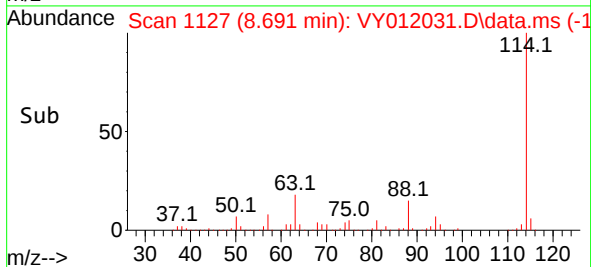
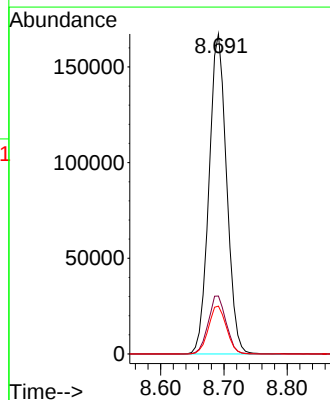
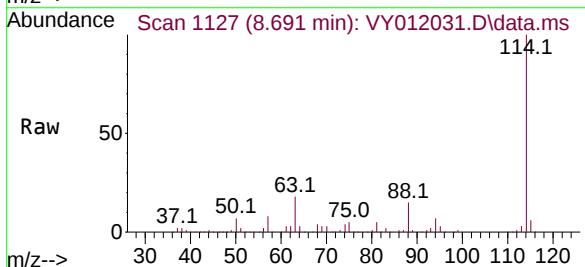
Tgt Ion: 114 Resp: 323310

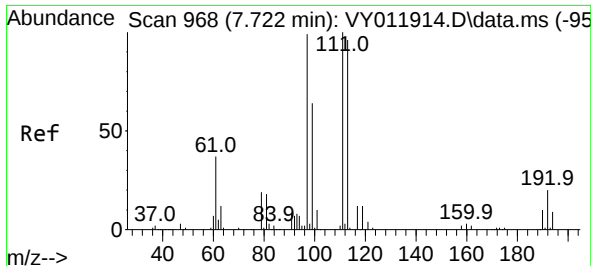
Ion Ratio Lower Upper

114 100

63 18.1 0.0 39.6

88 15.0 0.0 32.2

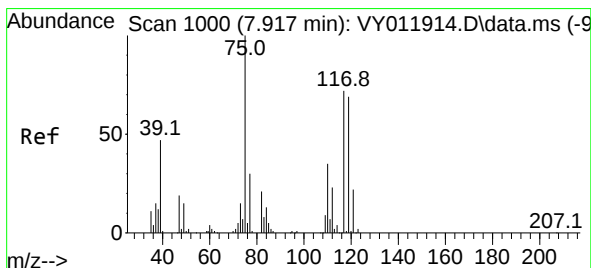
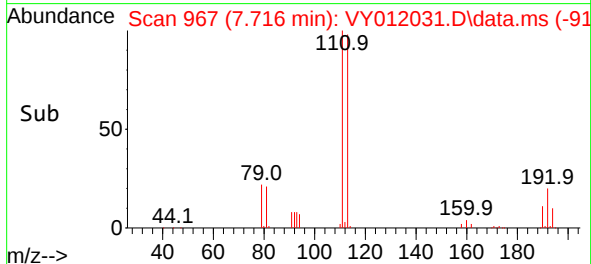
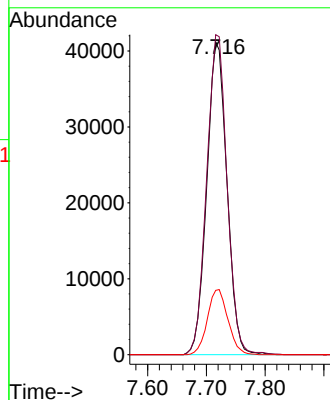
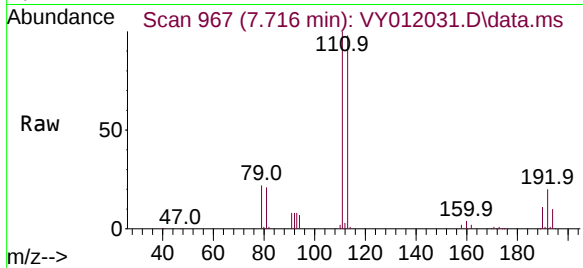




#35
Dibromofluoromethane
Concen: 50.570 ug/l
RT: 7.716 min Scan# 910
Delta R.T. -0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

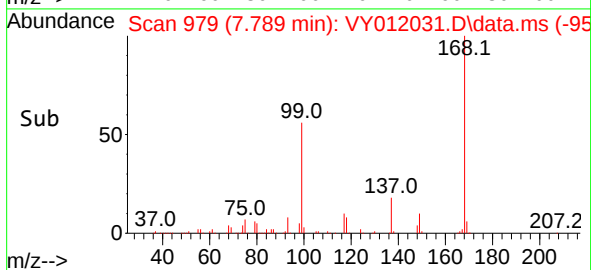
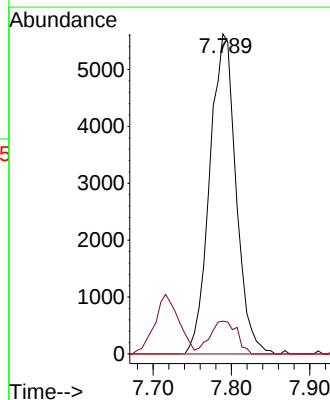
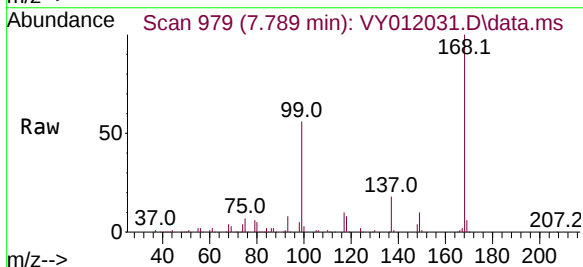
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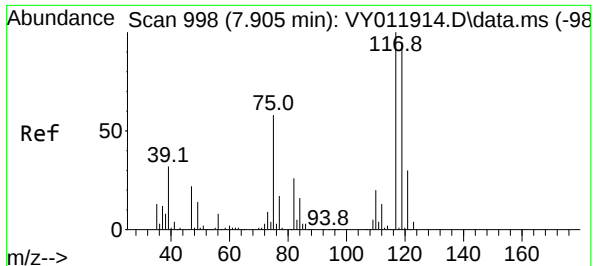
Tgt Ion:113 Resp: 98430
Ion Ratio Lower Upper
113 100
111 103.4 83.0 124.4
192 21.2 16.0 24.0



#36
1,1-Dichloropropene
Concen: 4.196 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 75 Resp: 13101
Ion Ratio Lower Upper
75 100
110 10.6 18.1 54.1#
77 0.0 25.1 37.7#

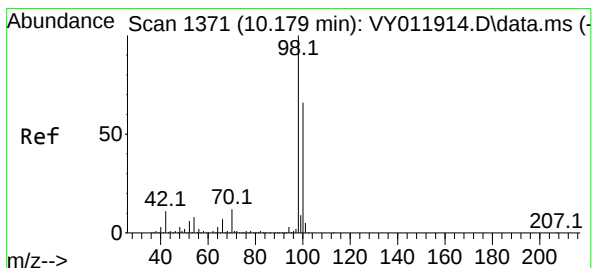
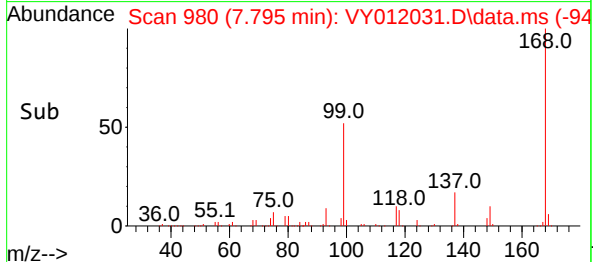
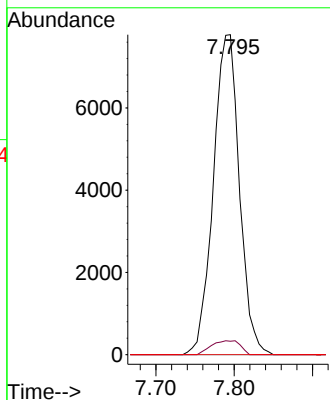
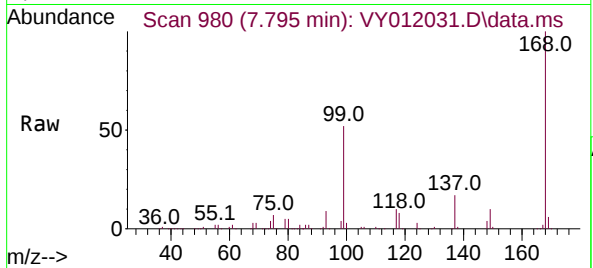




#38
Carbon Tetrachloride
Concen: 4.990 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

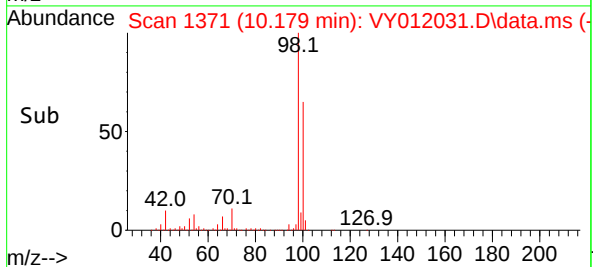
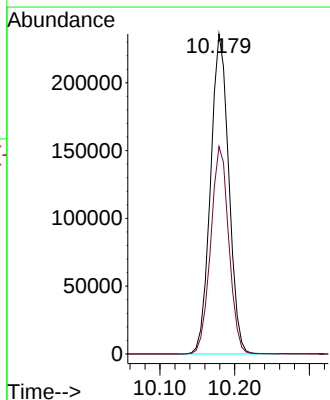
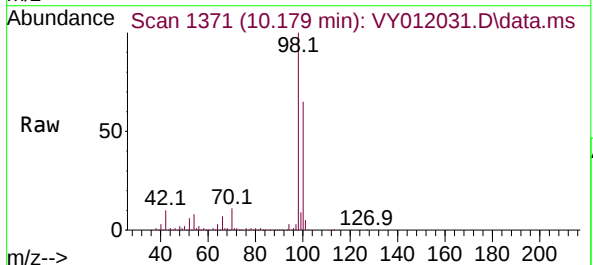
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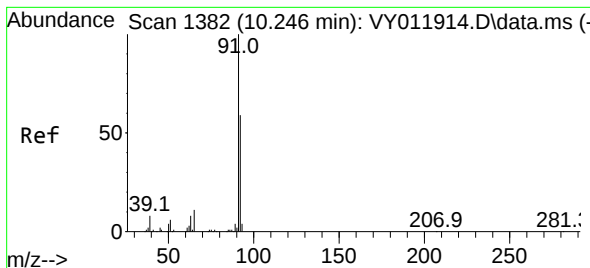
Tgt Ion:117 Resp: 17994
Ion Ratio Lower Upper
117 100
119 4.2 73.8 110.8#
121 0.0 25.2 37.8#



#50
Toluene-d8
Concen: 50.527 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 98 Resp: 399012
Ion Ratio Lower Upper
98 100
100 64.5 51.9 77.9





#52

Toluene

Concen: 1.319 ug/l

RT: 10.246 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY012031.D

Acq: 29 Dec 2022 16:25

Instrument :

MSVOA_Y

ClientSampleId :

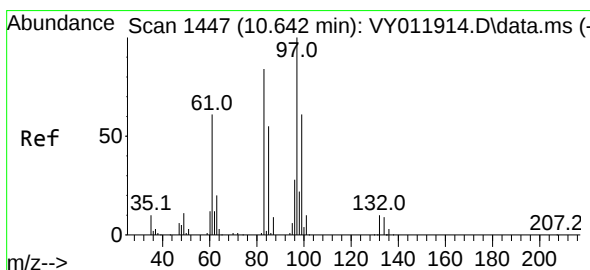
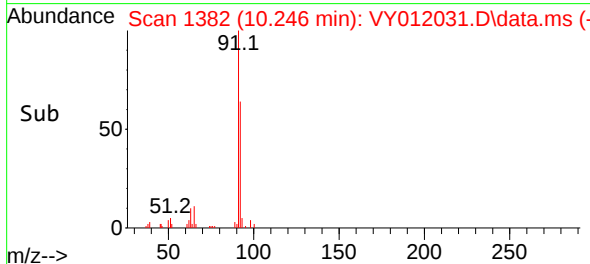
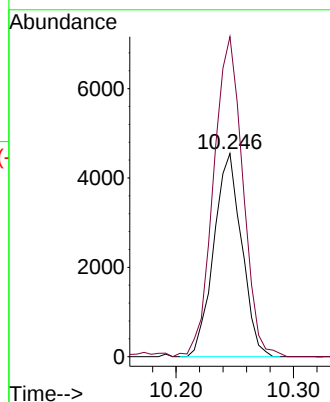
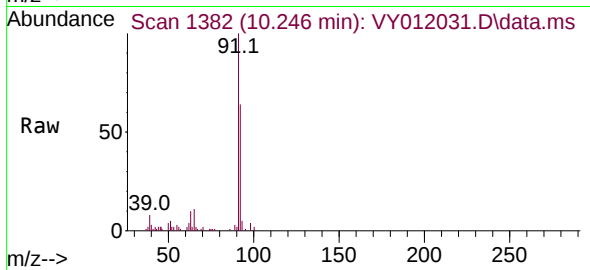
C-1

Tgt Ion: 92 Resp: 7508

Ion Ratio Lower Upper

92 100

91 165.4 137.4 206.0



#55

1,1,2-Trichloroethane

Concen: 1.943 ug/l

RT: 10.618 min Scan# 1443

Delta R.T. -0.030 min

Lab File: VY012031.D

Acq: 29 Dec 2022 16:25

Tgt Ion: 97 Resp: 3279

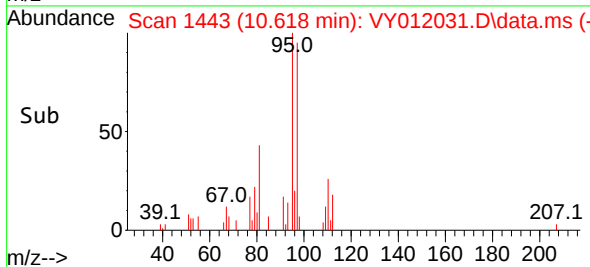
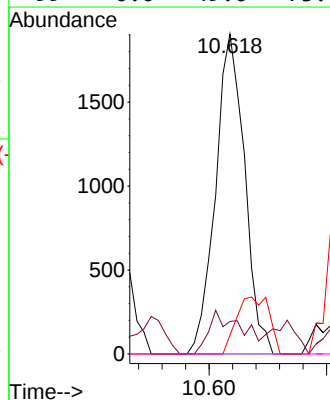
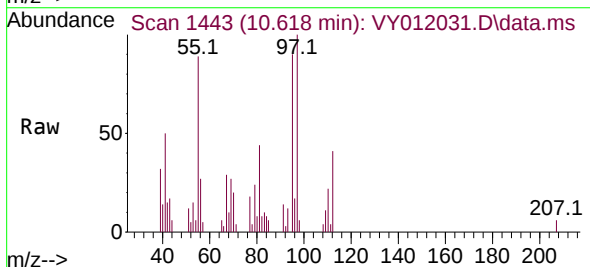
Ion Ratio Lower Upper

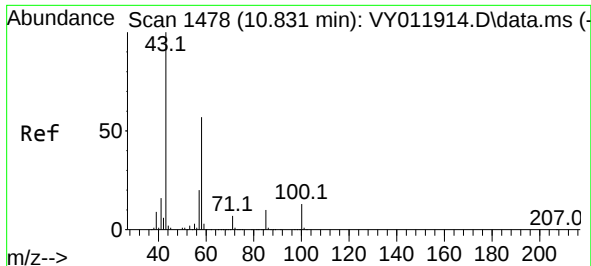
97 100

83 10.2 67.7 101.5#

85 5.9 43.8 65.8#

99 0.0 49.0 73.4#

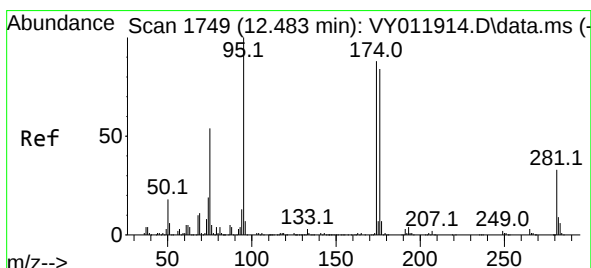
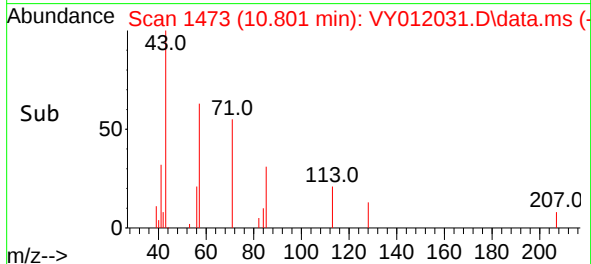
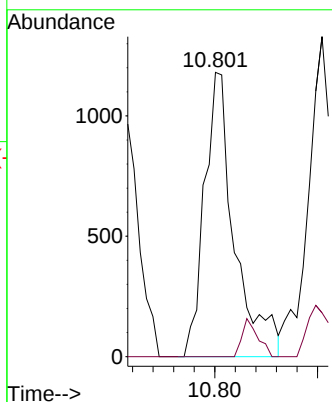
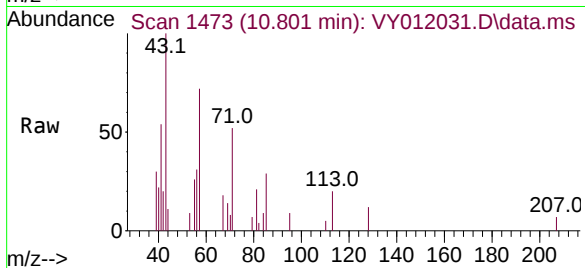




#59
2-Hexanone
Concen: 2.396 ug/l
RT: 10.801 min Scan# 1478
Delta R.T. -0.030 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

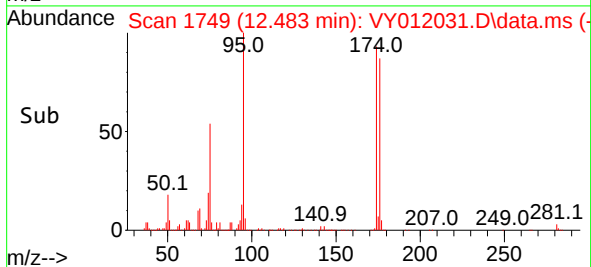
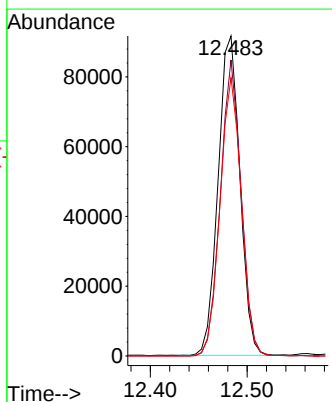
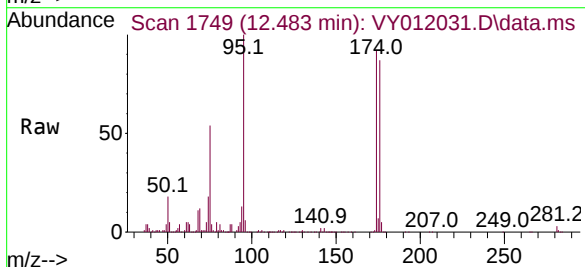
Instrument :
MSVOA_Y
ClientSampleId :
C-1

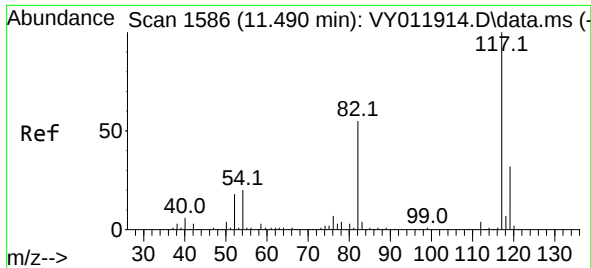
Tgt Ion: 43 Resp: 2404
Ion Ratio Lower Upper
43 100
58 0.0 28.4 85.2#



#62
4-Bromofluorobenzene
Concen: 53.885 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 95 Resp: 143115
Ion Ratio Lower Upper
95 100
174 88.2 0.0 172.0
176 85.3 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY012031.D

Acq: 29 Dec 2022 16:25

Instrument :

MSVOA_Y

ClientSampleId :

C-1

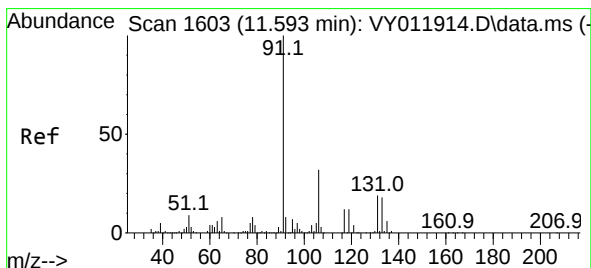
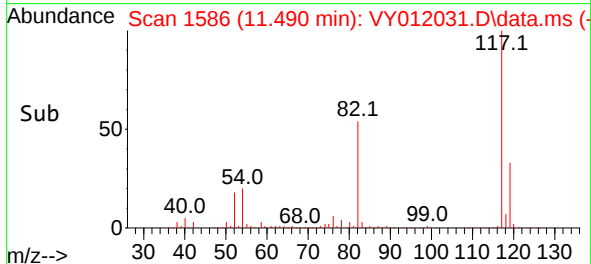
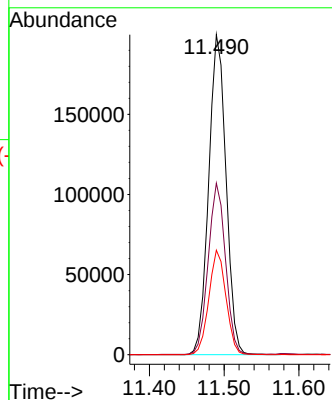
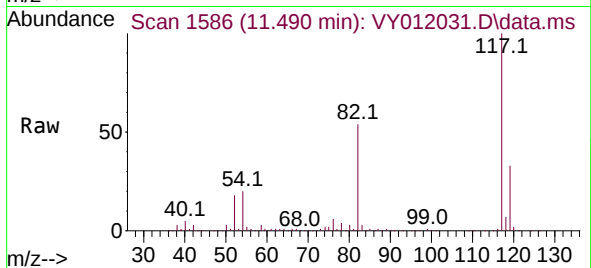
Tgt Ion:117 Resp: 321557

Ion Ratio Lower Upper

117 100

82 53.5 44.8 67.2

119 32.7 25.4 38.2



#67

Ethyl Benzene

Concen: 14.761 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY012031.D

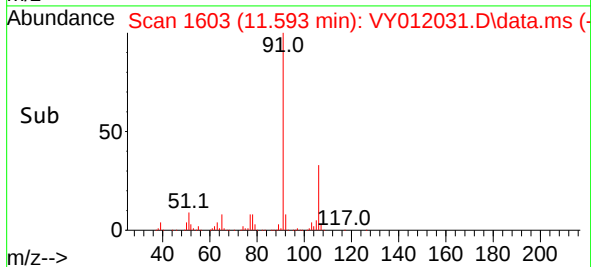
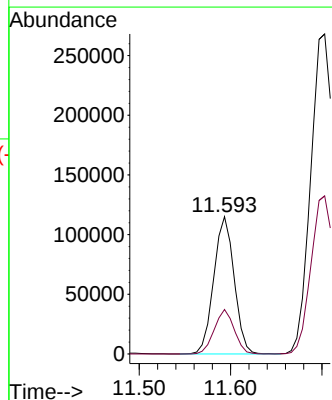
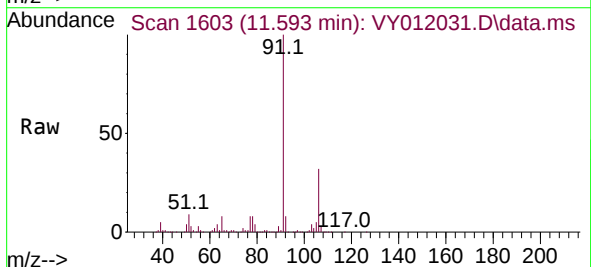
Acq: 29 Dec 2022 16:25

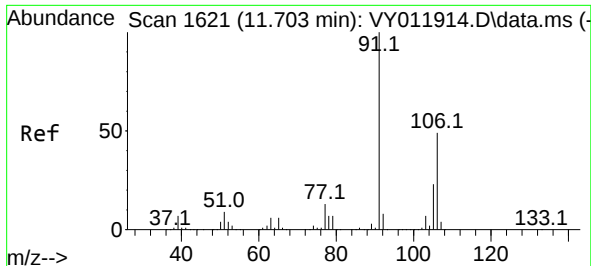
Tgt Ion: 91 Resp: 178147

Ion Ratio Lower Upper

91 100

106 32.5 25.0 37.4

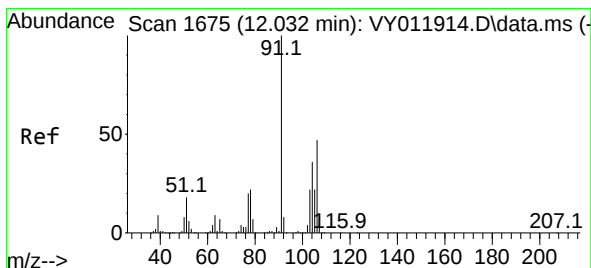
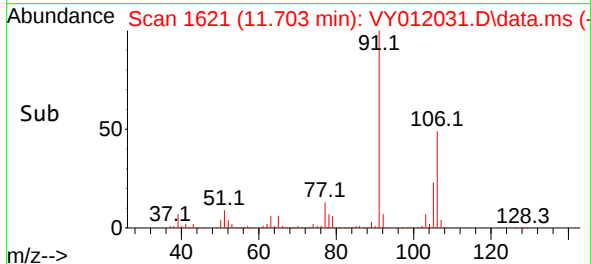
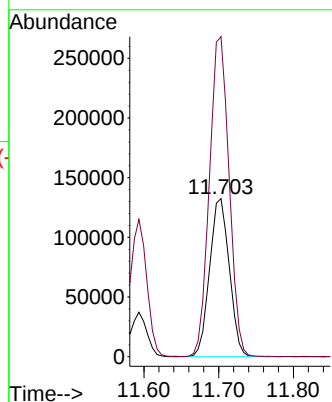
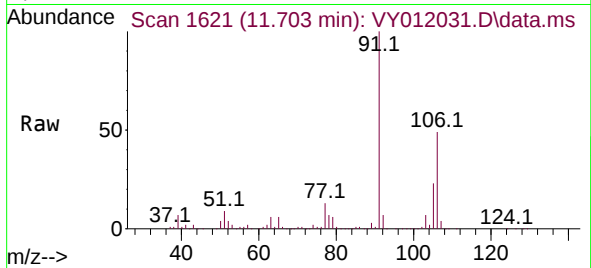




#68
m/p-Xylenes
Concen: 51.663 ug/l
RT: 11.703 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

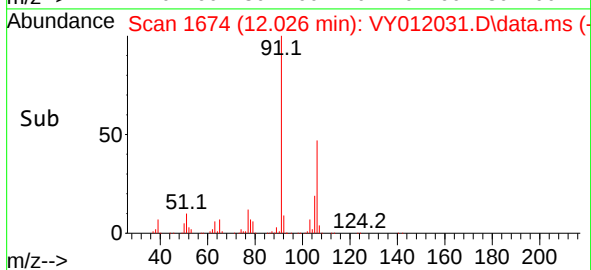
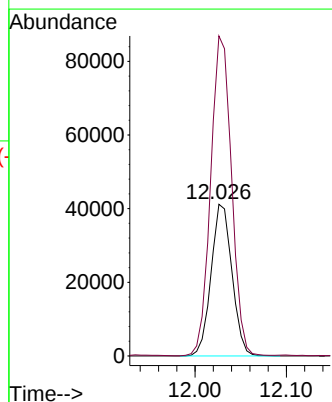
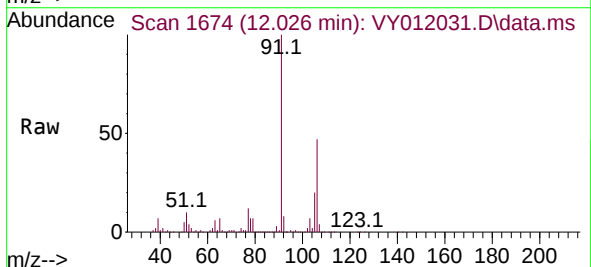
Instrument :
MSVOA_Y
ClientSampleId :
C-1

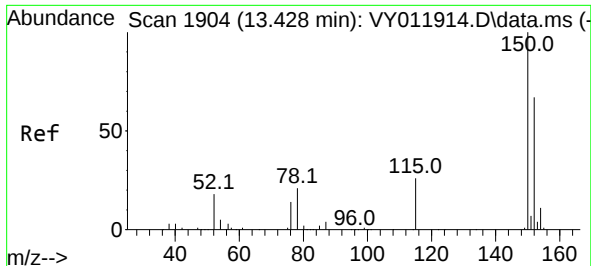
Tgt Ion:106 Resp: 242488
Ion Ratio Lower Upper
106 100
91 202.5 162.5 243.7



#69
o-Xylene
Concen: 14.942 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.006 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion:106 Resp: 65253
Ion Ratio Lower Upper
106 100
91 211.2 107.5 322.4

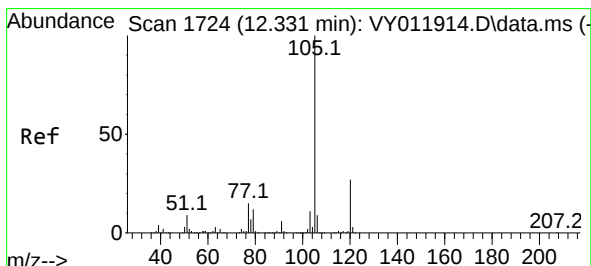
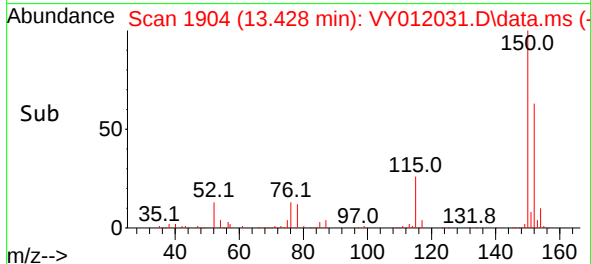
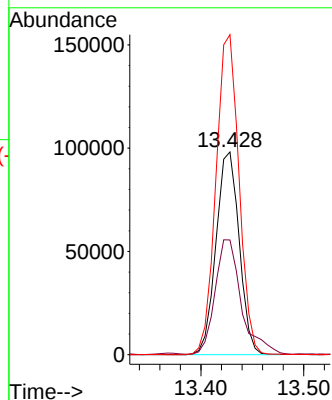
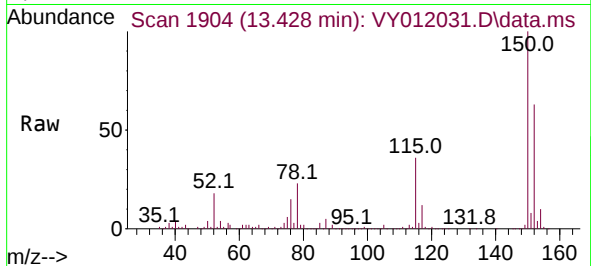




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

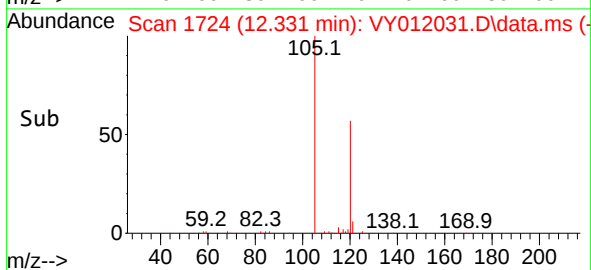
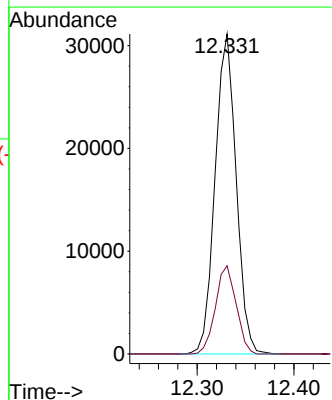
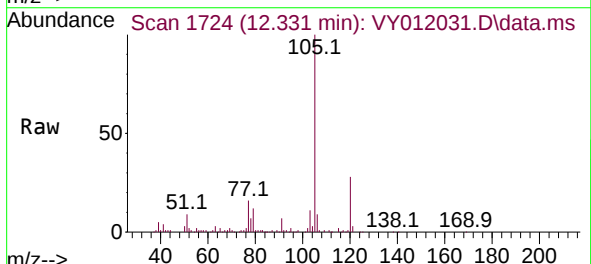
Instrument :
MSVOA_Y
ClientSampleId :
C-1

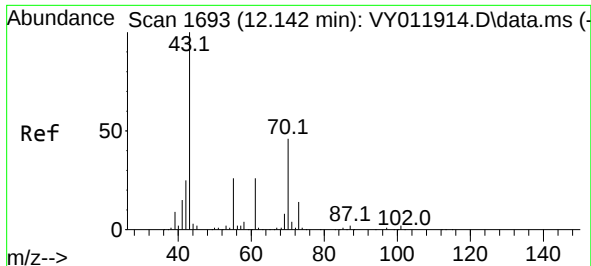
Tgt Ion:152 Resp: 153722
Ion Ratio Lower Upper
152 100
115 63.7 29.1 87.3
150 156.7 0.0 342.6



#73
Isopropylbenzene
Concen: 4.128 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion:105 Resp: 47088
Ion Ratio Lower Upper
105 100
120 27.0 13.2 39.6

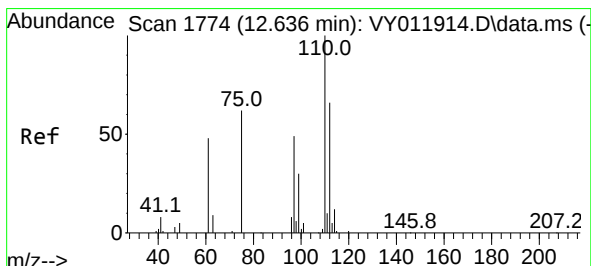
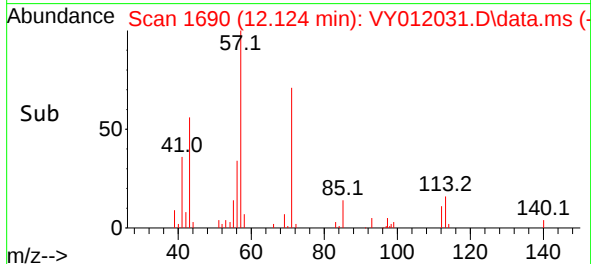
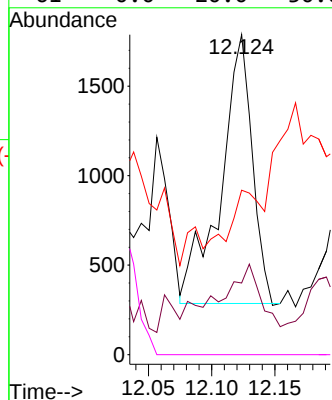
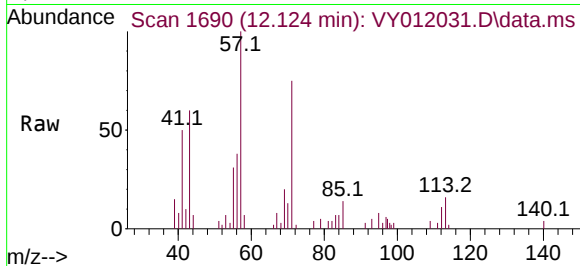




#74
N-amy1 acetate
Concen: 1.110 ug/l
RT: 12.124 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

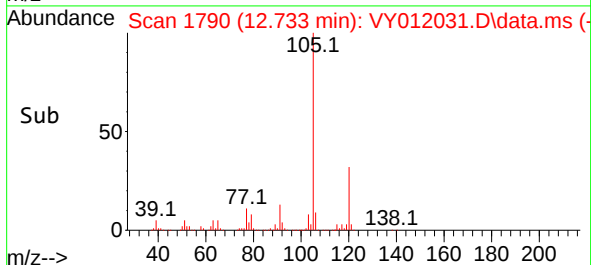
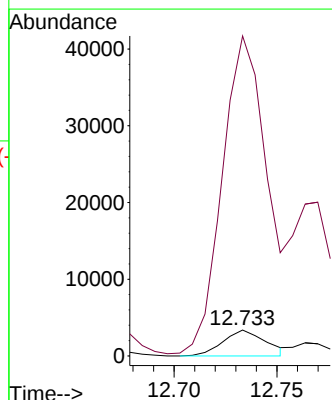
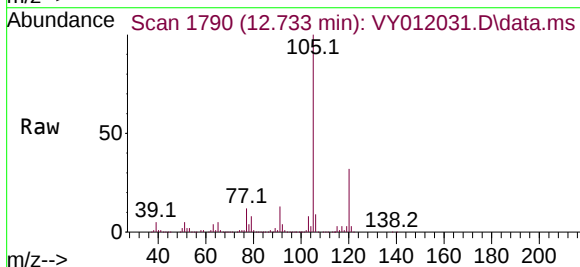
Instrument :
MSVOA_Y
ClientSampleId :
C-1

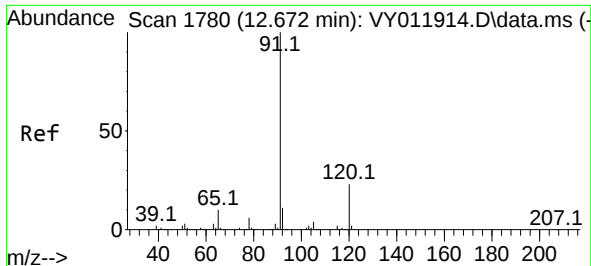
Tgt Ion: 43	Resp: 2595
Ion Ratio	Lower Upper
43 100	
70 29.2	35.8 53.8#
55 15.2	21.0 31.4#
61 0.0	20.0 30.0#



#76
1,2,3-Trichloropropane
Concen: 2.547 ug/l
RT: 12.733 min Scan# 1790
Delta R.T. 0.098 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 75	Resp: 4872
Ion Ratio	Lower Upper
75 100	
77 1292.9	0.0 0.0#

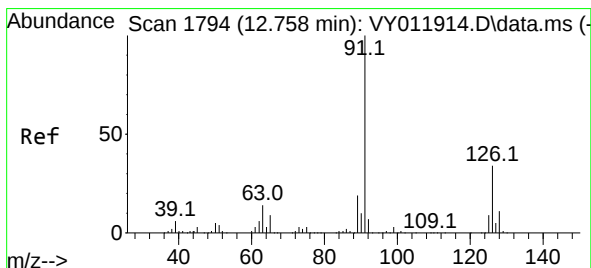
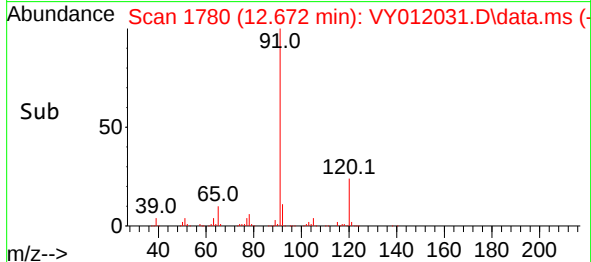
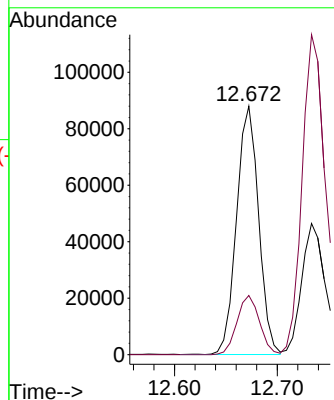
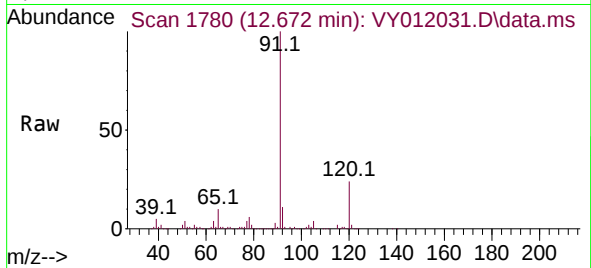




#78
n-propylbenzene
Concen: 9.568 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

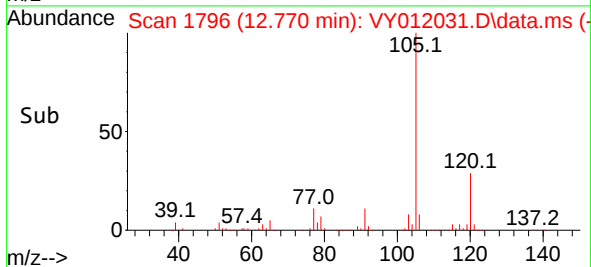
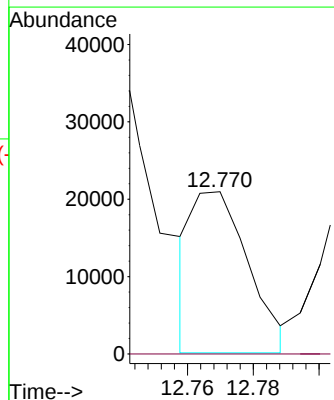
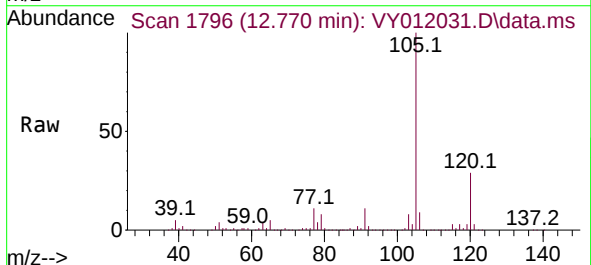
Instrument :
MSVOA_Y
ClientSampleId :
C-1

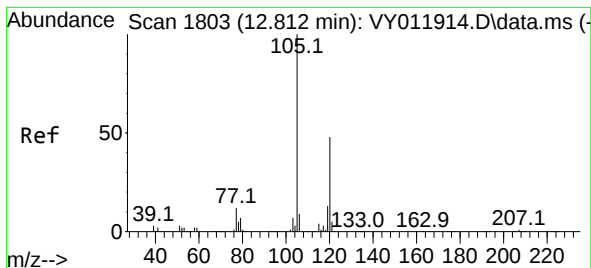
Tgt Ion: 91 Resp: 131196
Ion Ratio Lower Upper
91 100
120 24.3 11.8 35.4



#79
2-Chlorotoluene
Concen: 3.178 ug/l
RT: 12.770 min Scan# 1796
Delta R.T. 0.012 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 91 Resp: 24494
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.5#





#80

1,3,5-Trimethylbenzene

Concen: 34.027 ug/l

RT: 12.813 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY012031.D

Acq: 29 Dec 2022 16:25

Instrument :

MSVOA_Y

ClientSampleId :

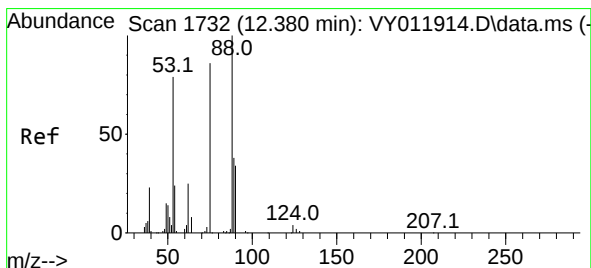
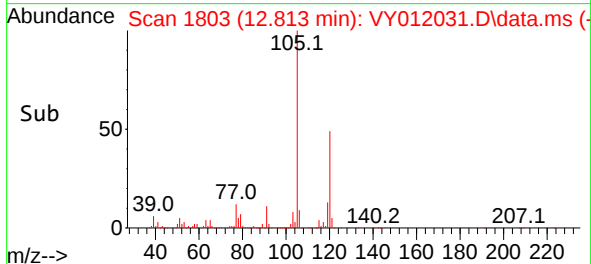
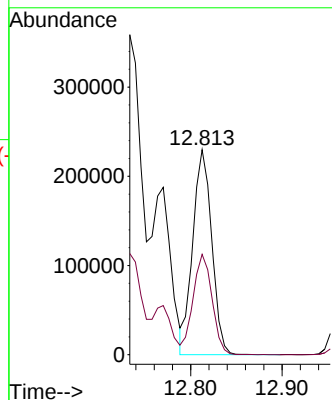
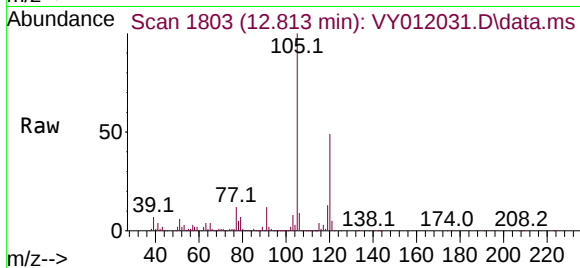
C-1

Tgt Ion:105 Resp: 332318

Ion Ratio Lower Upper

105 100

120 49.2 24.2 72.6



#81

trans-1,4-Dichloro-2-butene

Concen: 109.113 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY012031.D

Acq: 29 Dec 2022 16:25

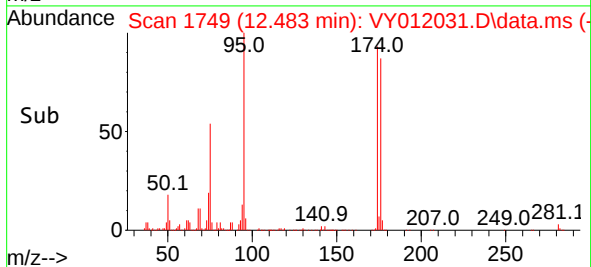
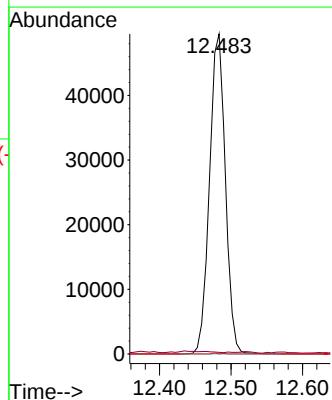
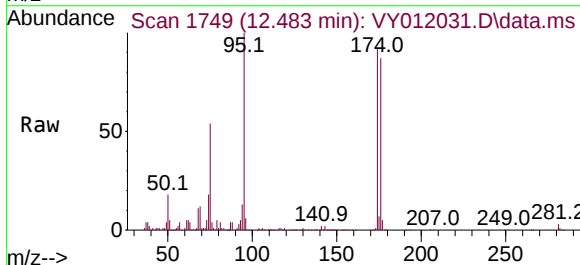
Tgt Ion: 75 Resp: 76214

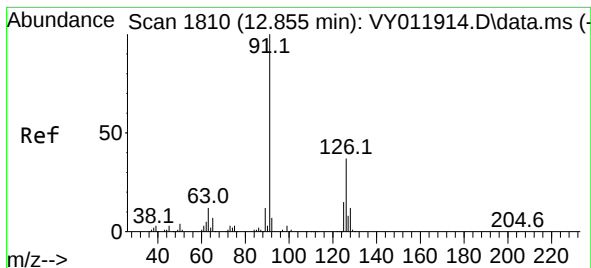
Ion Ratio Lower Upper

75 100

53 0.1 72.5 108.7#

89 0.1 37.0 55.4#

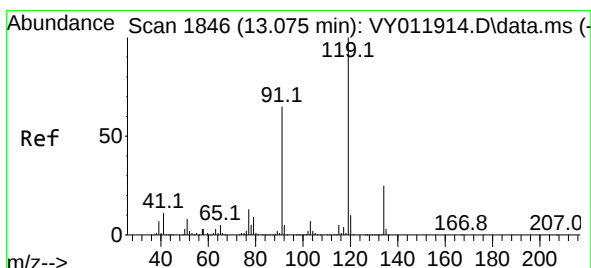
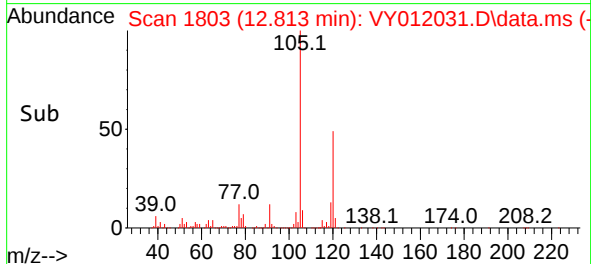
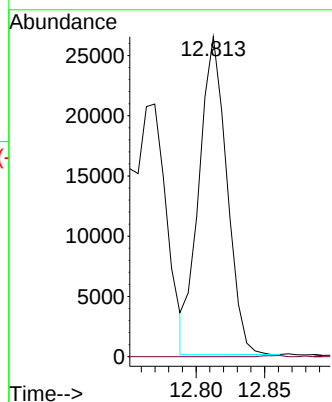
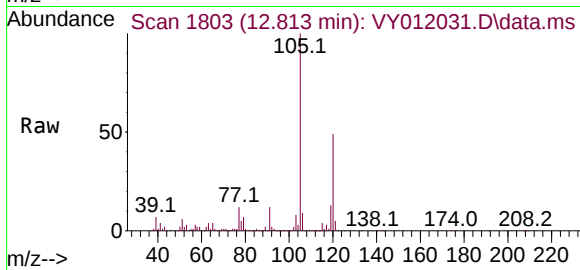




#82
4-Chlorotoluene
Concen: 4.660 ug/l
RT: 12.813 min Scan# 1810
Delta R.T. -0.043 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

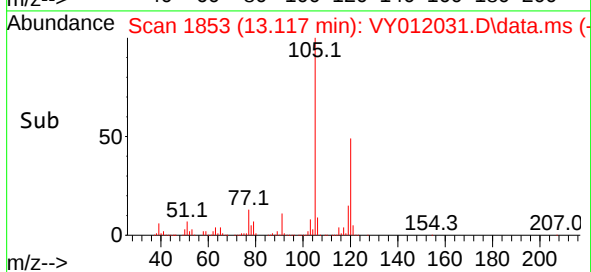
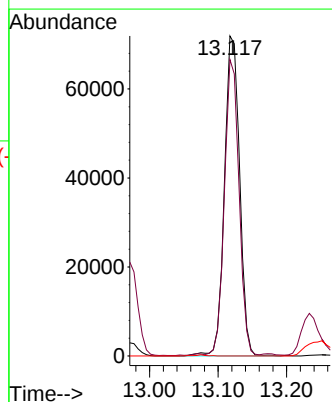
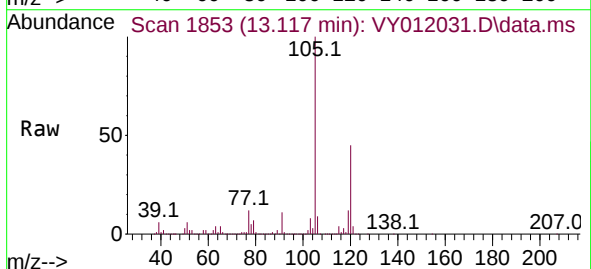
Instrument :
MSVOA_Y
ClientSampleId :
C-1

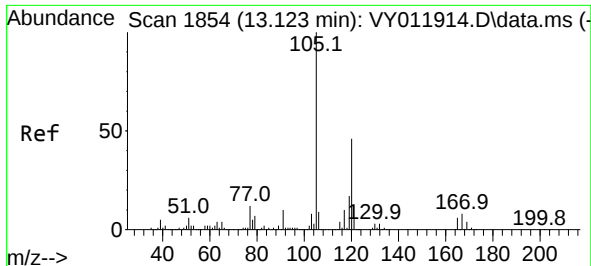
Tgt Ion: 91 Resp: 37165
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#



#83
tert-Butylbenzene
Concen: 13.313 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.043 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 119 Resp: 110188
Ion Ratio Lower Upper
119 100
91 88.1 32.3 96.8
134 0.0 13.0 39.0#

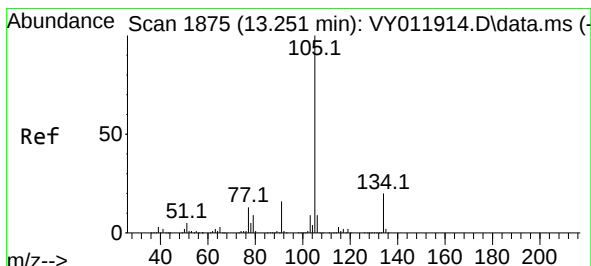
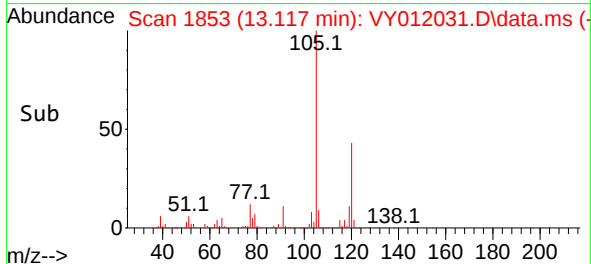
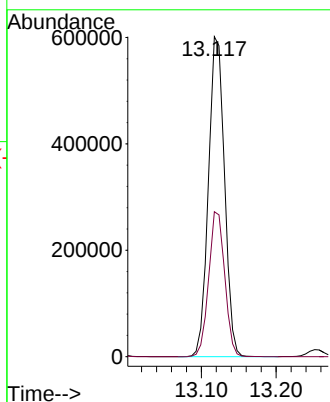
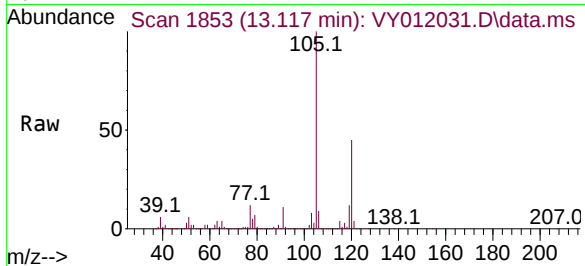




#84
1,2,4-Trimethylbenzene
Concen: 93.554 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

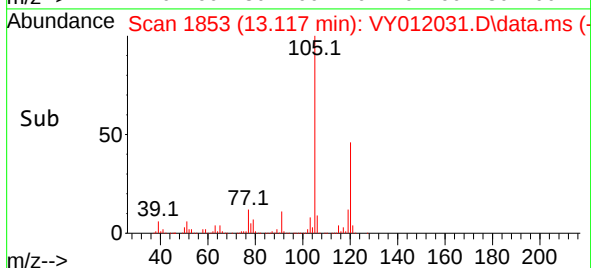
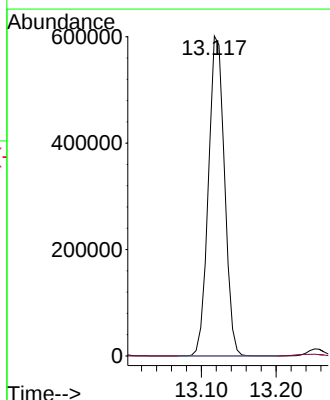
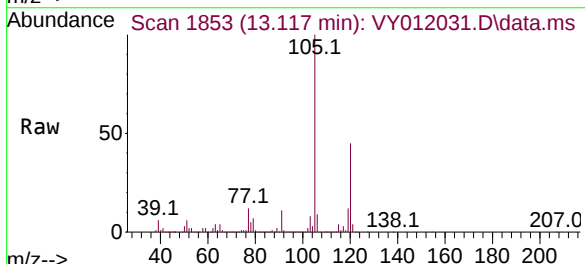
Instrument :
MSVOA_Y
ClientSampleId :
C-1

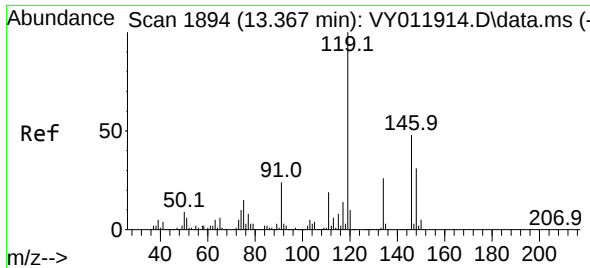
Tgt Ion:105 Resp: 898871
Ion Ratio Lower Upper
105 100
120 45.2 22.9 68.7



#85
sec-Butylbenzene
Concen: 72.727 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.134 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion:105 Resp: 898871
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.3#

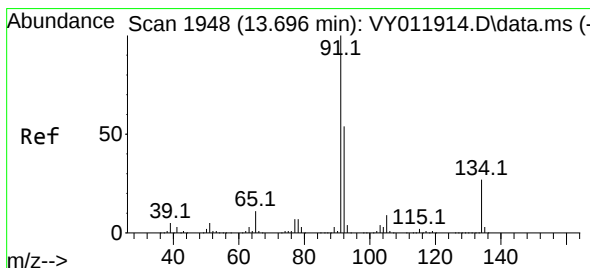
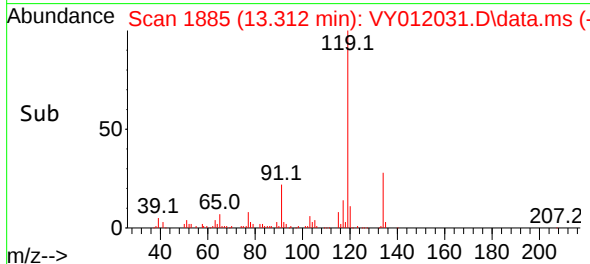
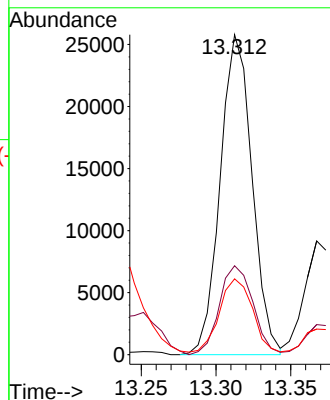
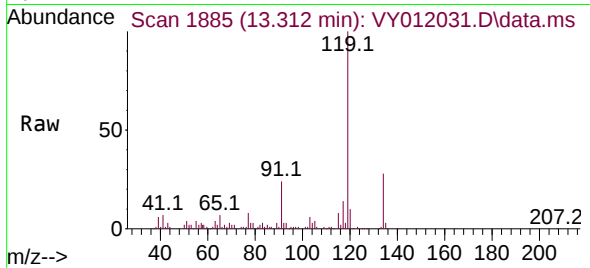




#86
p-Isopropyltoluene
Concen: 3.662 ug/l
RT: 13.312 min Scan# 119
Delta R.T. -0.055 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

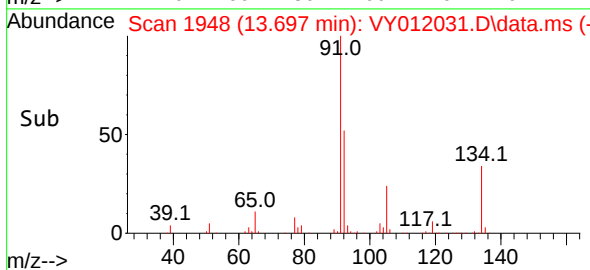
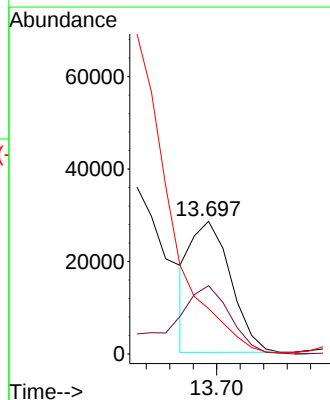
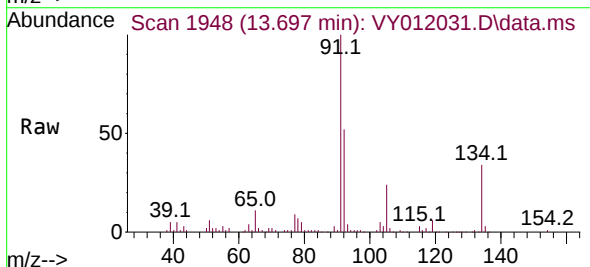
Instrument :
MSVOA_Y
ClientSampleId :
C-1

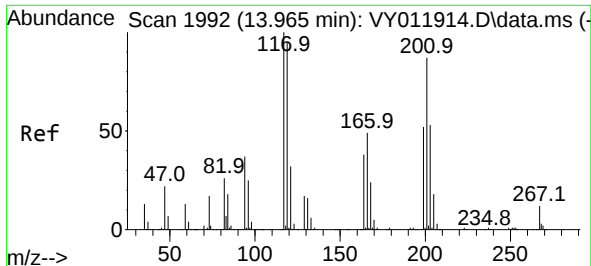
Tgt Ion:	119	Resp:	38186
Ion Ratio	Lower	Upper	
119	100		
134	29.2	13.0	39.0
91	23.3	11.9	35.9



#89
n-Butylbenzene
Concen: 3.541 ug/l
RT: 13.697 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion:	91	Resp:	33427
Ion Ratio	Lower	Upper	
91	100		
92	81.7	26.8	80.4#
134	0.0	13.3	39.8#

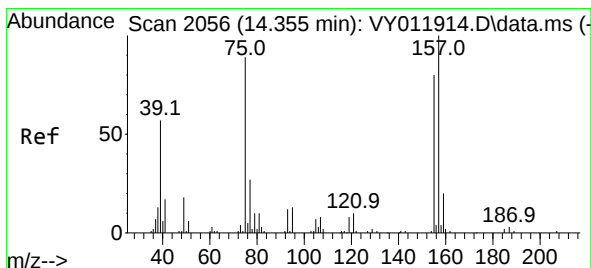
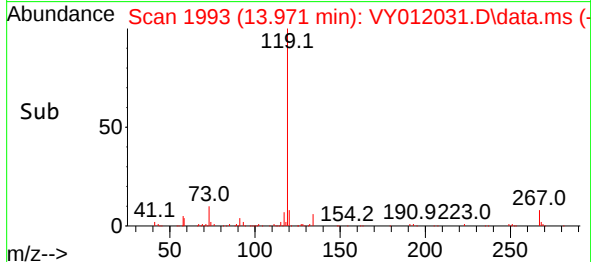
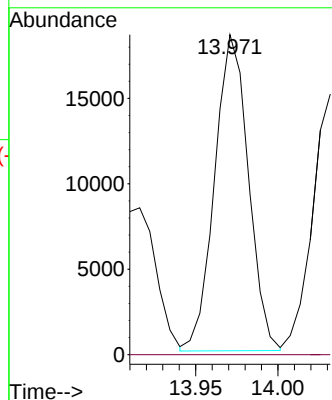
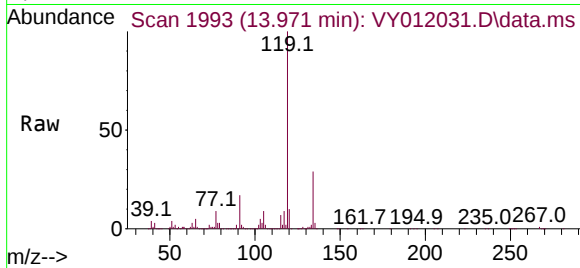




#90
Hexachloroethane
Concen: 13.250 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

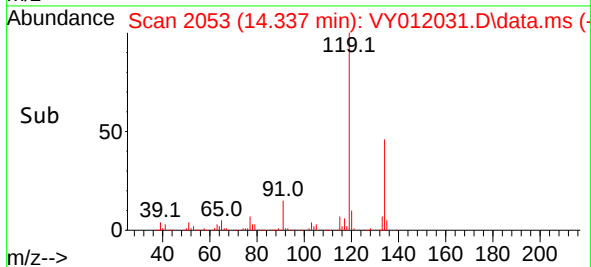
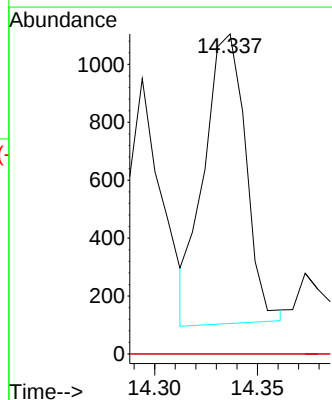
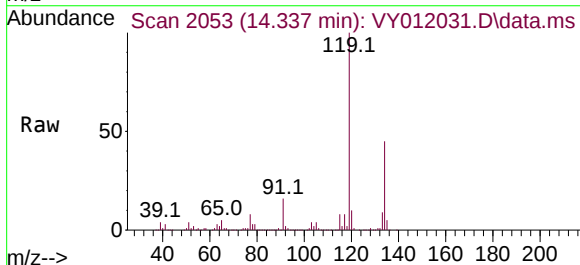
Instrument :
MSVOA_Y
ClientSampleId :
C-1

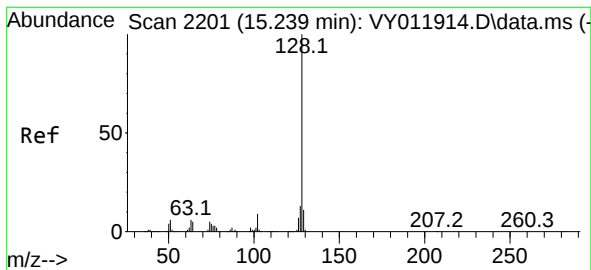
Tgt Ion:117 Resp: 26366
Ion Ratio Lower Upper
117 100
201 0.0 40.3 120.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.293 ug/l
RT: 14.337 min Scan# 2053
Delta R.T. -0.018 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Tgt Ion: 75 Resp: 1404
Ion Ratio Lower Upper
75 100
155 0.0 42.3 126.8#
157 0.0 54.4 163.3#





#95
Naphthalene
Concen: 13.518 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY012031.D
Acq: 29 Dec 2022 16:25

Instrument :
MSVOA_Y
ClientSampleId :
C-1

Tgt Ion:	128	Resp:	64381
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	11.0	8.8	13.2

