

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102122\
 Data File : VY011042.D
 Acq On : 21 Oct 2022 12:06
 Operator : KP/MD
 Sample : N5217-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

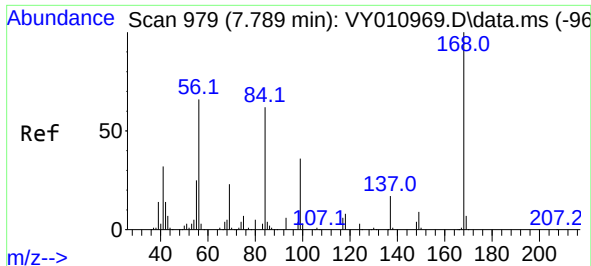
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-A1-3.5-4.0

Quant Time: Oct 22 01:22:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y101722S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 18 01:42:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.789	168	4389	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	7102	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	5369	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	1273	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	2835	70.123	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 140.240%			
35) Dibromofluoromethane	7.710	113	1475	36.684	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 73.360%			
50) Toluene-d8	10.179	98	8214	55.392	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 110.780%			
62) 4-Bromofluorobenzene	12.483	95	2059	38.491	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 76.980%			
Target Compounds						Qvalue
3) Chloromethane	2.119	50	266	6.369	ug/l #	44
5) Bromomethane	2.668	94	495	15.118	ug/l	97
10) Methyl Iodide	4.113	142	1377	25.892	ug/l #	82
16) Acetone	3.942	43	79	6.729	ug/l #	47
20) Methylene Chloride	4.716	84	301	Below Cal	#	44
25) 2-Butanone	6.960	43	20	1.123	ug/l #	54
38) Carbon Tetrachloride	7.795	117	500	7.326	ug/l #	11
52) Toluene	10.240	92	188	1.560	ug/l	90
64) Tetrachloroethene	10.715	164	84	2.010	ug/l #	44
65) Chlorobenzene	11.520	112	211	1.914	ug/l #	42
67) Ethyl Benzene	11.593	91	300	1.538	ug/l #	44
73) Isopropylbenzene	12.331	105	226	2.444	ug/l	90
76) 1,2,3-Trichloropropane	12.483	75	809	55.976	ug/l #	100
77) Bromobenzene	12.611	156	76	3.515	ug/l #	64
78) n-propylbenzene	12.672	91	508	4.515	ug/l #	62
79) 2-Chlorotoluene	12.758	91	226	3.566	ug/l	97
80) 1,3,5-Trimethylbenzene	12.825	105	93	1.205	ug/l	72
81) trans-1,4-Dichloro-2-b...	12.483	75	809	120.389	ug/l #	7
82) 4-Chlorotoluene	12.758	91	226	3.425	ug/l	96
83) tert-Butylbenzene	13.081	119	78	1.169	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.117	105	102	1.340	ug/l #	31
85) sec-Butylbenzene	13.251	105	471	4.697	ug/l #	76
86) p-Isopropyltoluene	13.367	119	240	2.885	ug/l #	67
87) 1,3-Dichlorobenzene	13.361	146	127	2.944	ug/l #	44
88) 1,4-Dichlorobenzene	13.447	146	217	5.058	ug/l #	67
89) n-Butylbenzene	13.703	91	220	2.830	ug/l #	62
90) Hexachloroethane	14.081	117	231	14.071	ug/l #	6
91) 1,2-Dichlorobenzene	13.733	146	110	2.850	ug/l #	65
95) Naphthalene	15.239	128	203	4.321	ug/l #	69

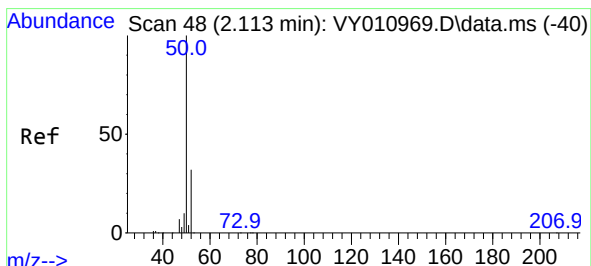
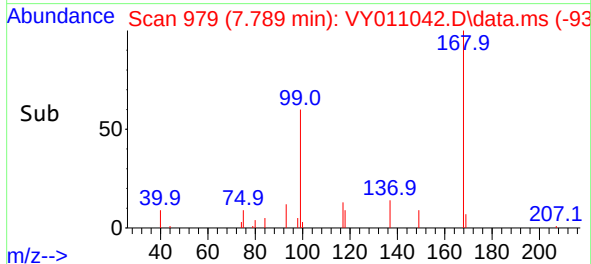
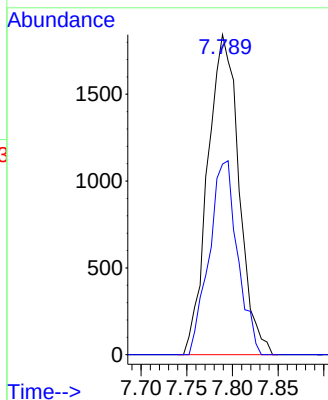
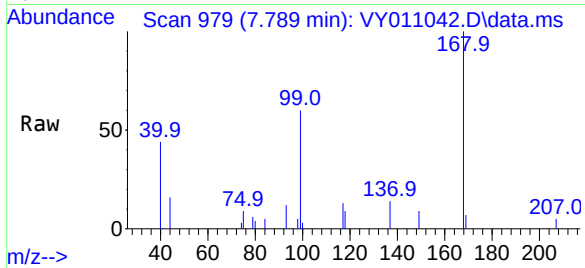
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

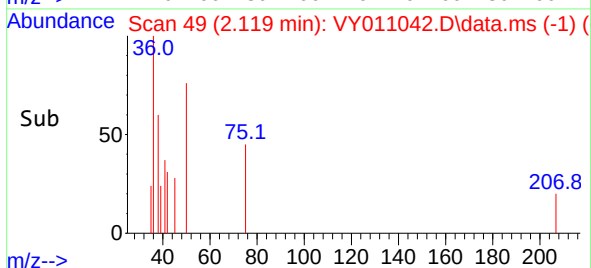
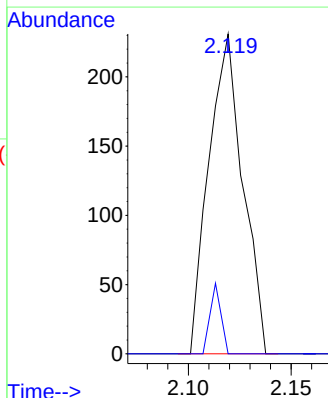
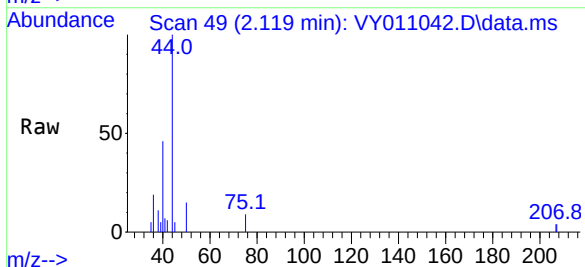
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

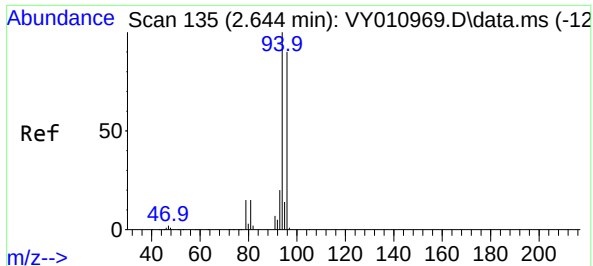
Tgt Ion:168 Resp: 4389
Ion Ratio Lower Upper
168 100
99 59.6 46.9 70.3



#3
Chloromethane
Concen: 6.369 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 50 Resp: 266
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#

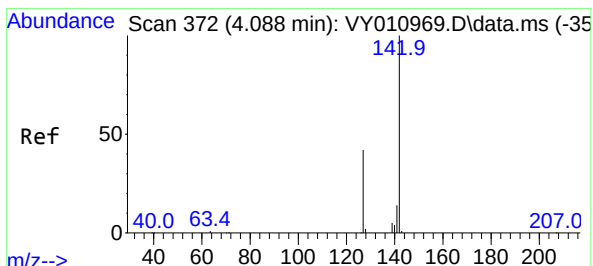
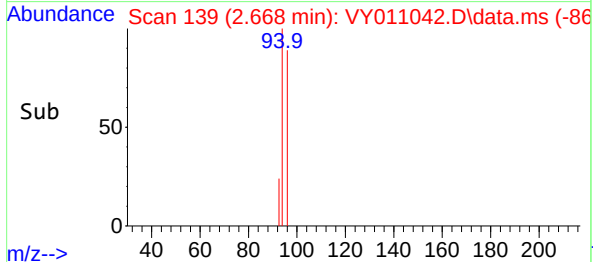
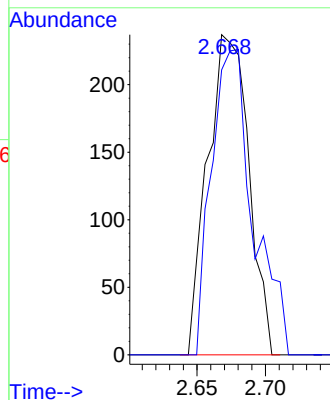
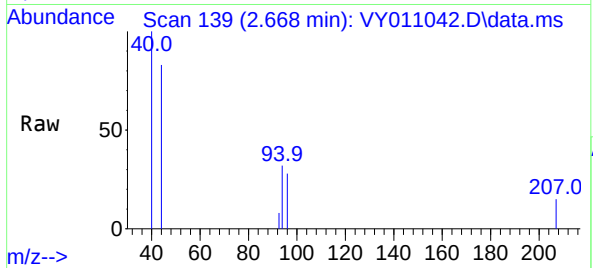




#5
Bromomethane
Concen: 15.118 ug/l
RT: 2.668 min Scan# 11
Delta R.T. 0.024 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

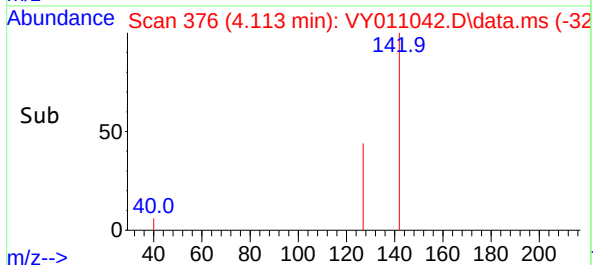
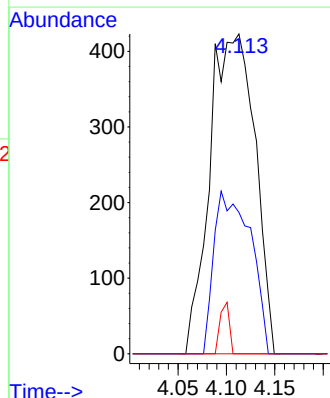
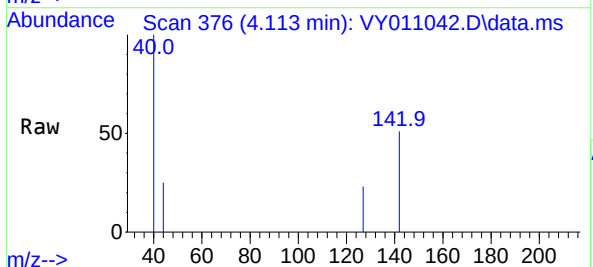
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

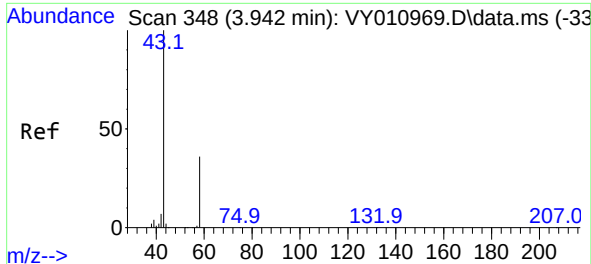
Tgt Ion: 94 Resp: 495
Ion Ratio Lower Upper
94 100
96 89.0 73.5 110.3



#10
Methyl Iodide
Concen: 25.892 ug/l
RT: 4.113 min Scan# 376
Delta R.T. 0.025 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 142 Resp: 1377
Ion Ratio Lower Upper
142 100
127 41.1 41.5 62.3#
141 3.3 11.9 17.9#





#16

Acetone

Concen: 6.729 ug/l

RT: 3.942 min Scan# 34

Delta R.T. 0.000 min

Lab File: VY011042.D

Acq: 21 Oct 2022 12:06

Instrument :

MSVOA_Y

ClientSampleId :

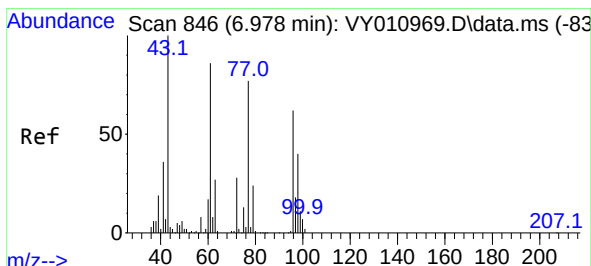
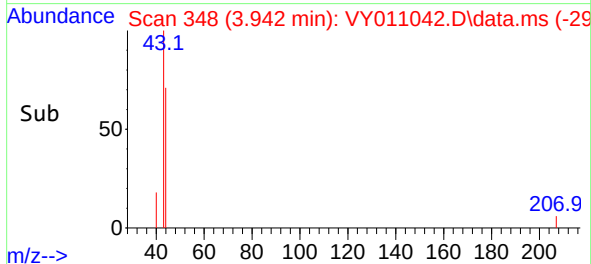
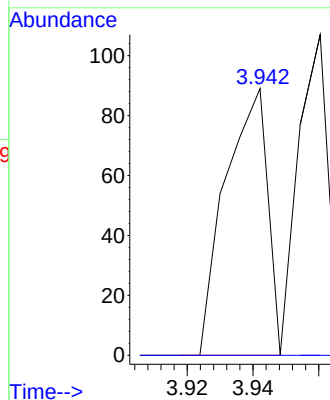
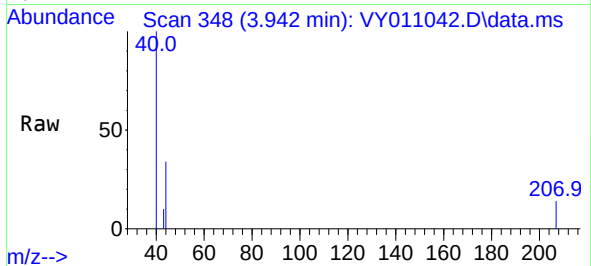
SB-A1-3.5-4.0

Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

43 100

58 0.0 22.0 33.0#



#25

2-Butanone

Concen: 1.123 ug/l

RT: 6.960 min Scan# 843

Delta R.T. -0.018 min

Lab File: VY011042.D

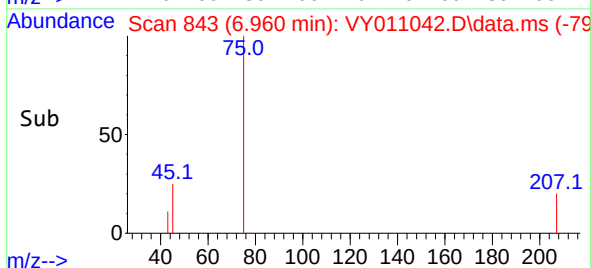
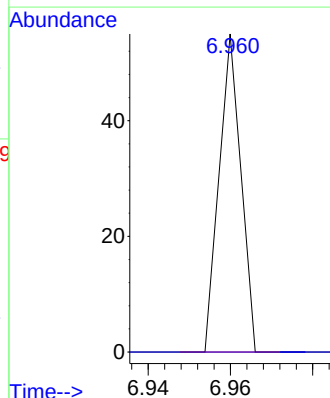
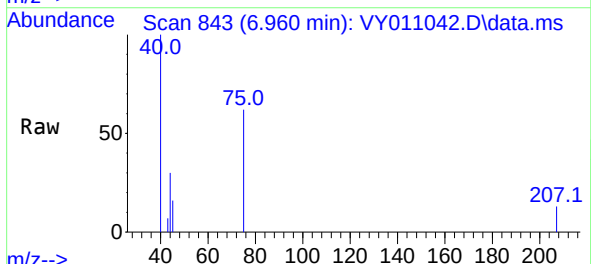
Acq: 21 Oct 2022 12:06

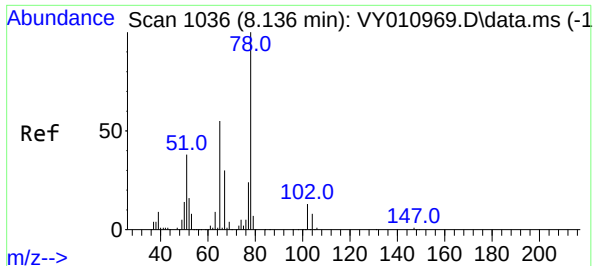
Tgt Ion: 43 Resp: 20

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#





#33

1,2-Dichloroethane-d4

Concen: 70.123 ug/l

RT: 8.143 min Scan# 1103

Delta R.T. 0.007 min

Lab File: VY011042.D

Acq: 21 Oct 2022 12:06

Instrument :

MSVOA_Y

ClientSampleId :

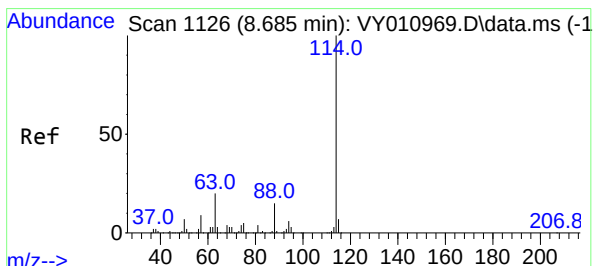
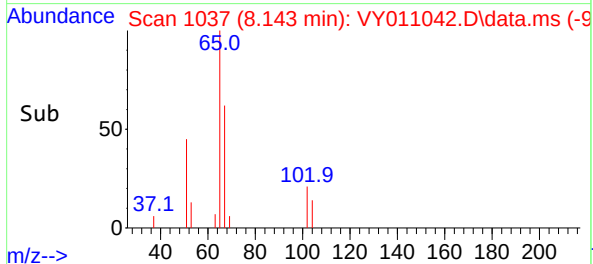
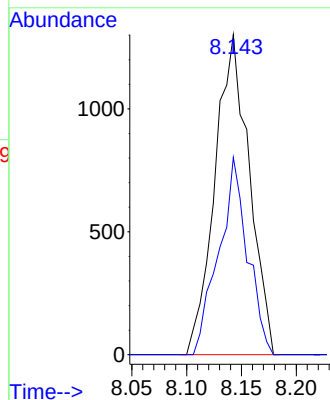
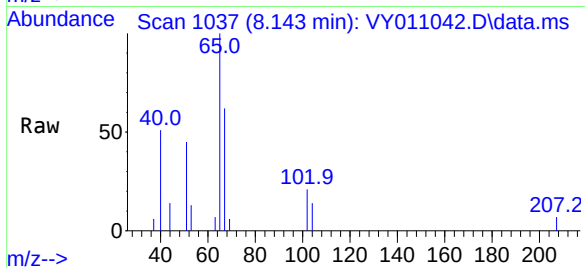
SB-A1-3.5-4.0

Tgt Ion: 65 Resp: 2835

Ion Ratio Lower Upper

65 100

67 51.7 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY011042.D

Acq: 21 Oct 2022 12:06

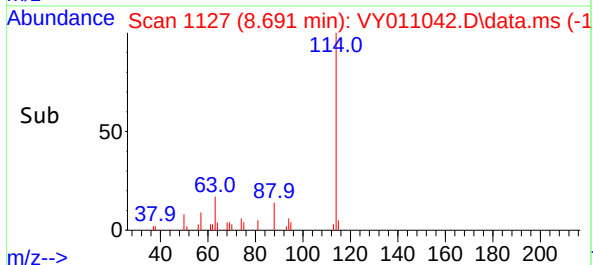
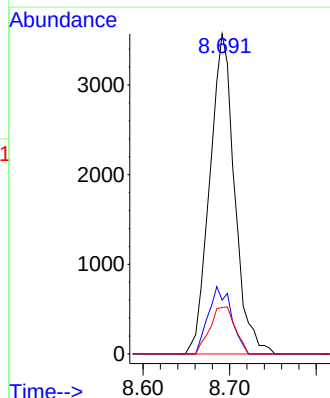
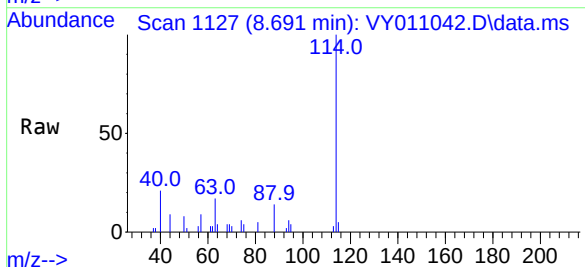
Tgt Ion: 114 Resp: 7102

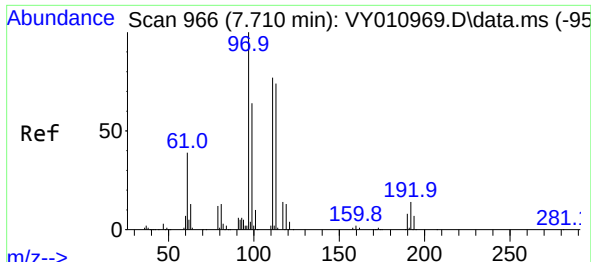
Ion Ratio Lower Upper

114 100

63 16.9 0.0 43.2

88 14.5 0.0 31.8

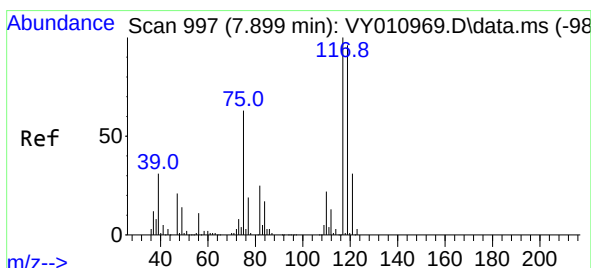
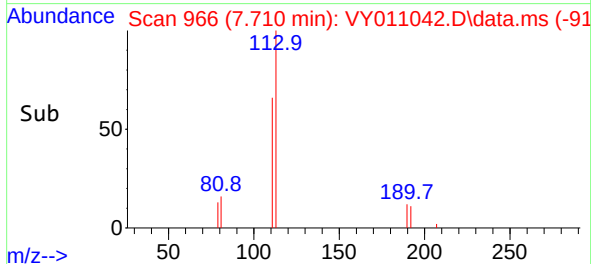
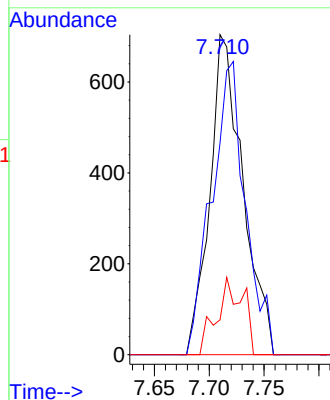
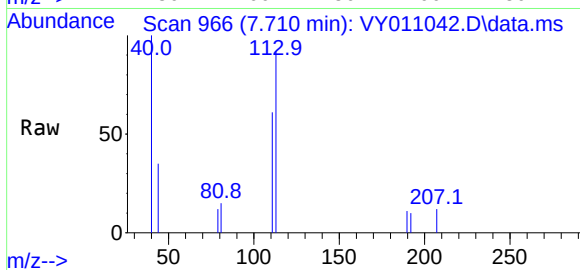




#35
Dibromofluoromethane
Concen: 36.684 ug/l
RT: 7.710 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

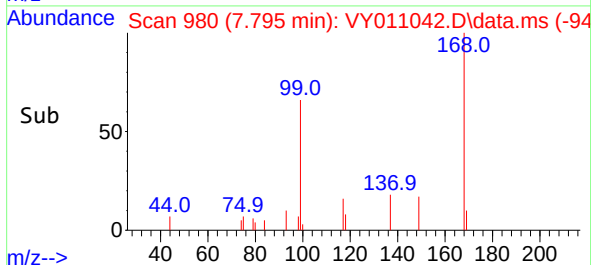
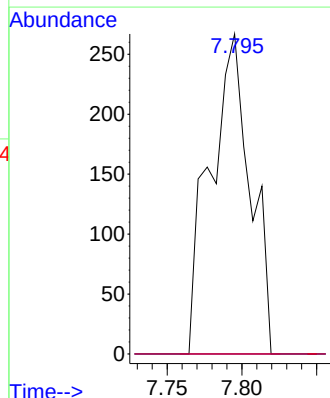
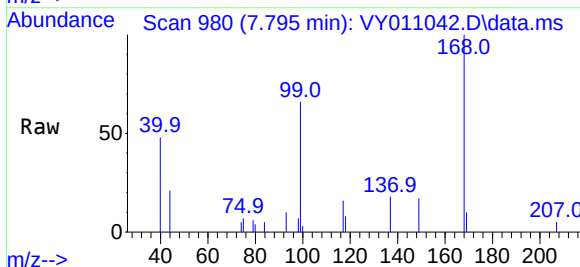
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

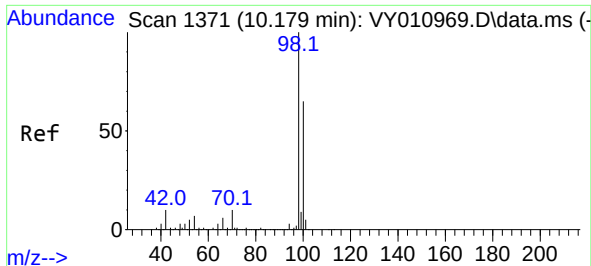
Tgt Ion:	113	Resp:	1475
Ion	Ratio	Lower	Upper
113	100		
111	93.9	82.6	124.0
192	19.1	17.6	26.4



#38
Carbon Tetrachloride
Concen: 7.326 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.104 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion:	117	Resp:	500
Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.9	116.9#
121	0.0	24.8	37.2#

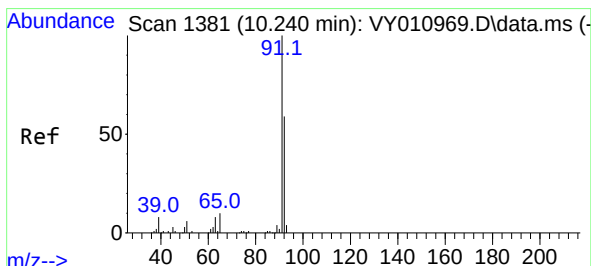
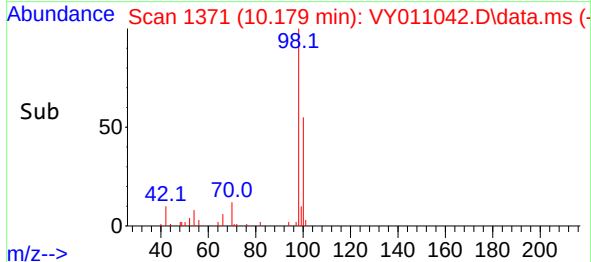
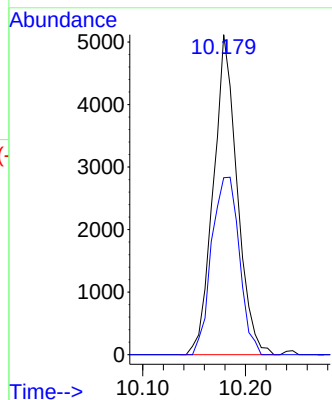
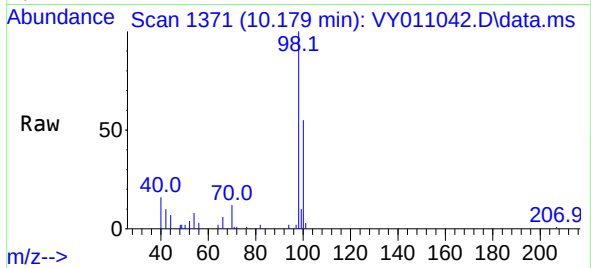




#50
Toluene-d8
Concen: 55.392 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

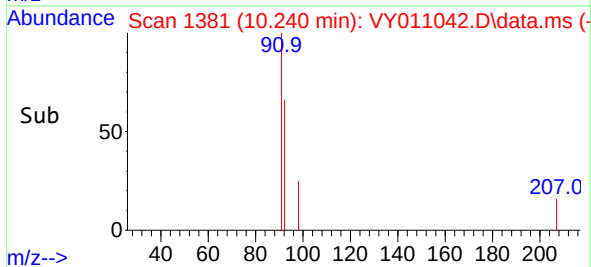
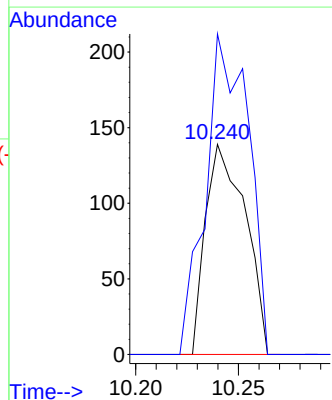
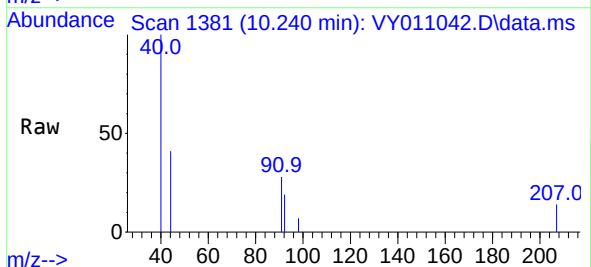
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MSVOA_Y
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SB-A1-3.5-4.0

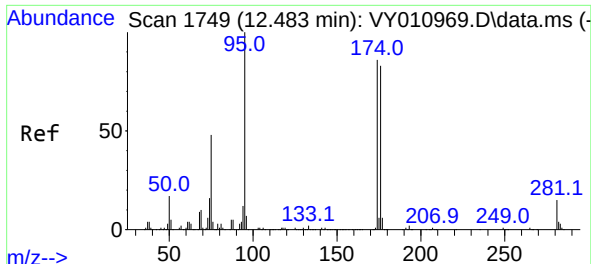
Tgt Ion: 98 Resp: 8214
Ion Ratio Lower Upper
98 100
100 64.5 50.2 75.2



#52
Toluene
Concen: 1.560 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 92 Resp: 188
Ion Ratio Lower Upper
92 100
91 163.8 142.6 213.8

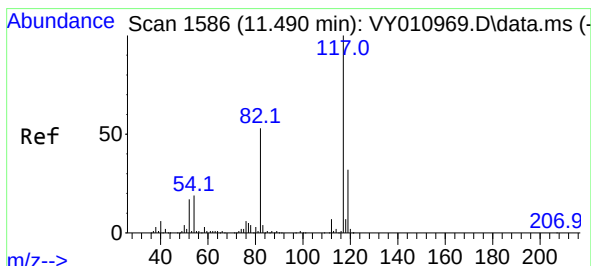
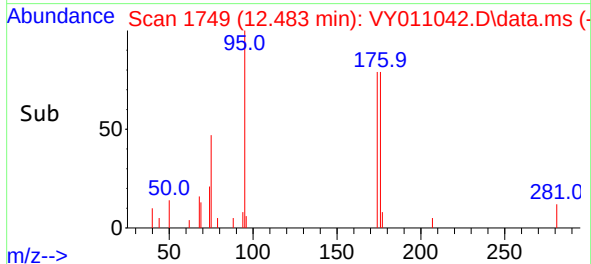
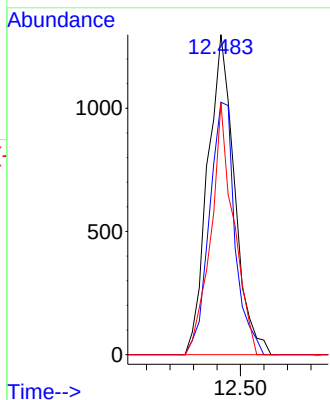
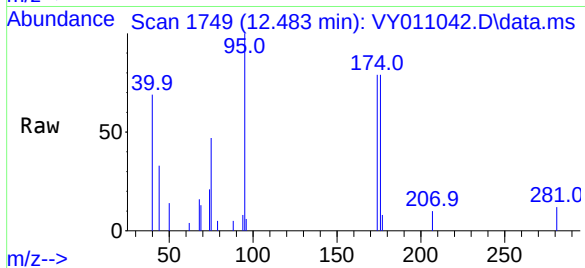




#62
4-Bromofluorobenzene
Concen: 38.491 ug/l
RT: 12.483 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

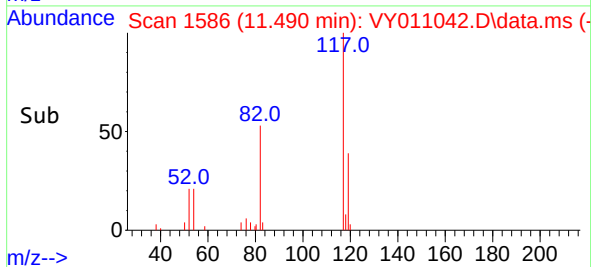
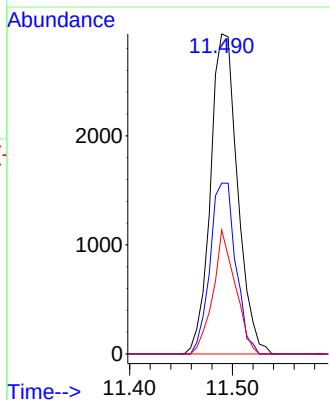
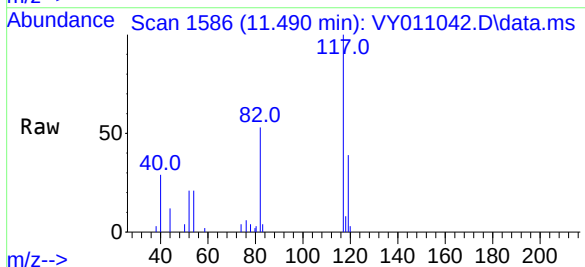
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

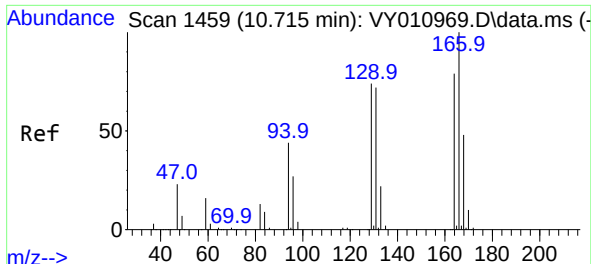
Tgt Ion:	95	Resp:	2059
Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	177.0
176	67.0	0.0	175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

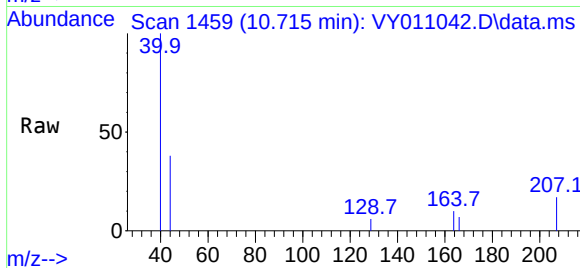
Tgt Ion:	117	Resp:	5369
Ion	Ratio	Lower	Upper
117	100		
82	53.4	43.0	64.4
119	38.7	25.4	38.0#





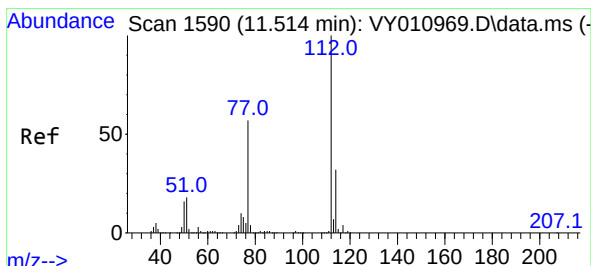
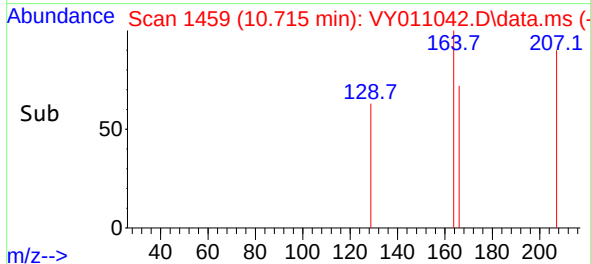
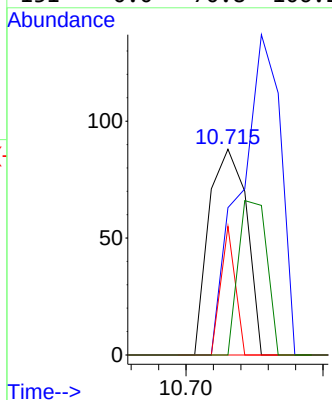
#64
Tetrachloroethene
Concen: 2.010 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0



Tgt Ion:164 Resp: 84

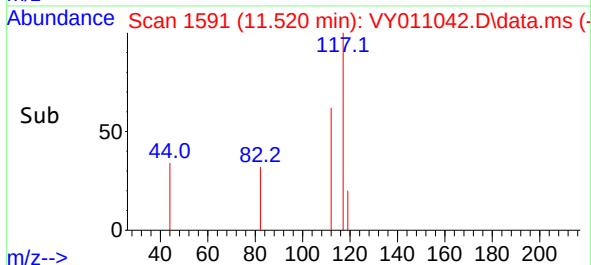
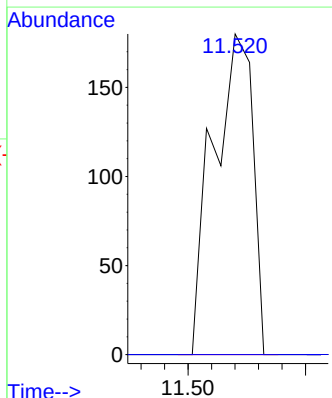
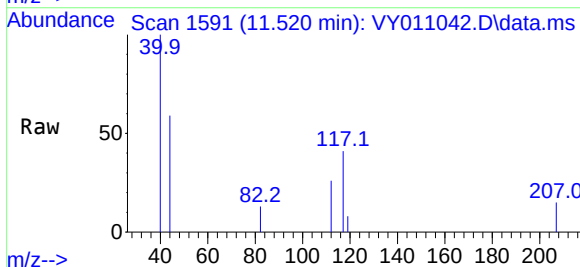
Ion	Ratio	Lower	Upper
164	100		
166	71.6	100.4	150.6#
129	62.5	71.4	107.0#
131	0.0	70.8	106.2#

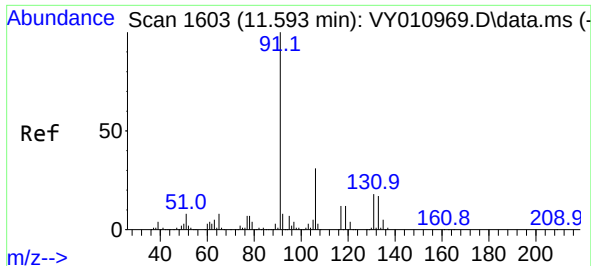


#65
Chlorobenzene
Concen: 1.914 ug/l
RT: 11.520 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion:112 Resp: 211

Ion	Ratio	Lower	Upper
112	100		
114	0.0	25.8	38.6#

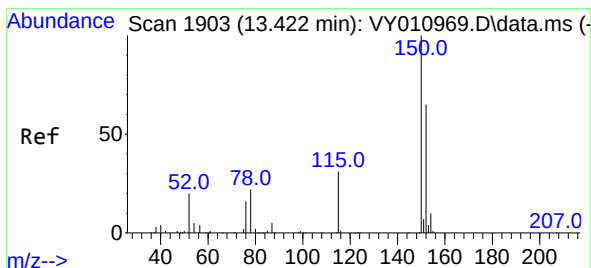
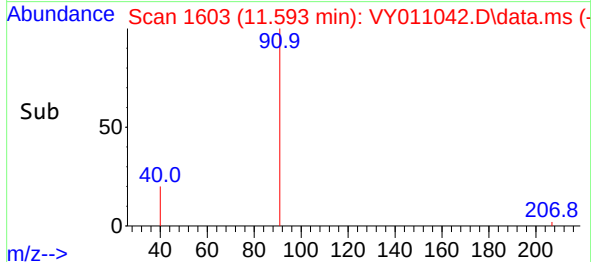
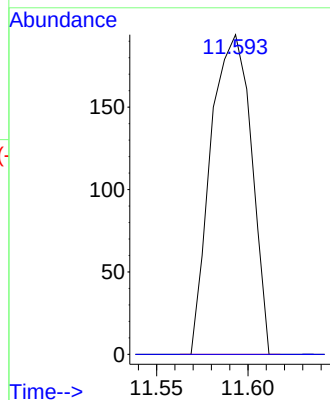
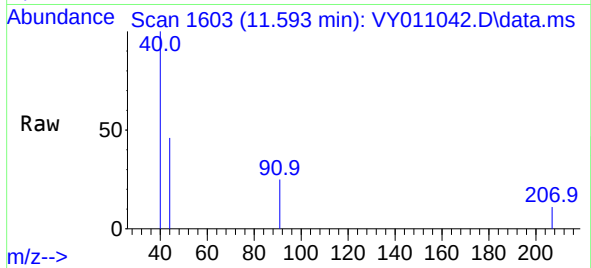




#67
Ethyl Benzene
Concen: 1.538 ug/l
RT: 11.593 min Scan# 1103
Delta R.T. 0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

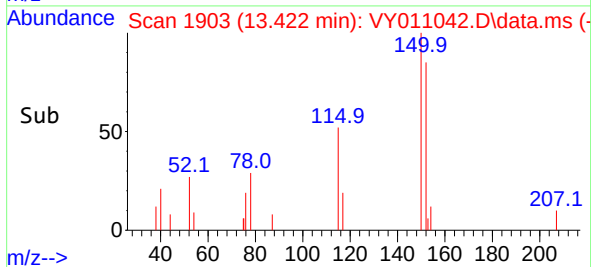
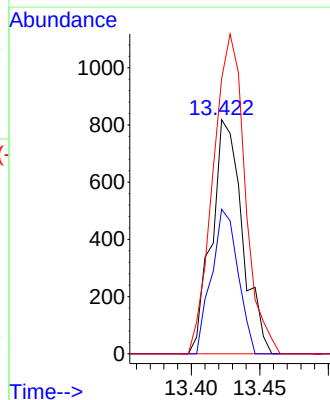
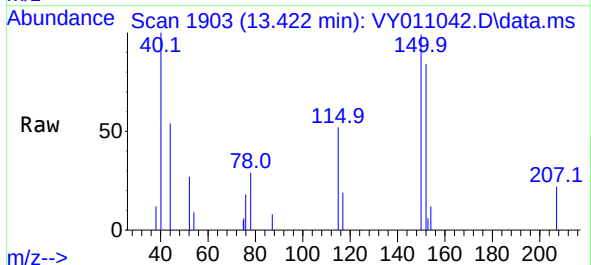
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

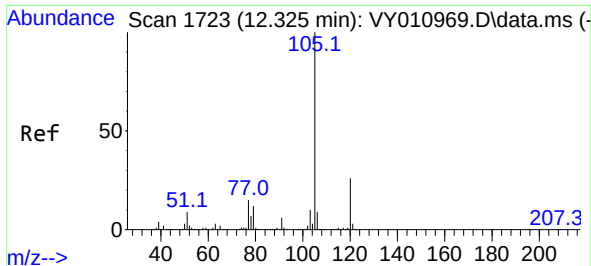
Tgt Ion: 91 Resp: 300
Ion Ratio Lower Upper
91 100
106 0.0 24.5 36.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 152 Resp: 1273
Ion Ratio Lower Upper
152 100
115 52.9 28.2 84.7
150 142.8 0.0 347.6

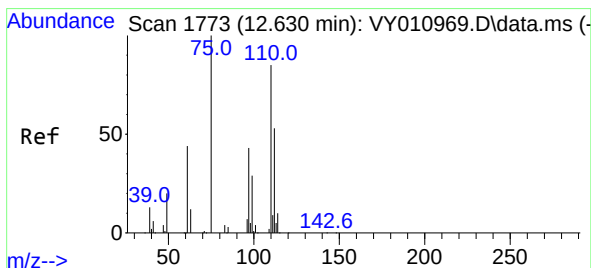
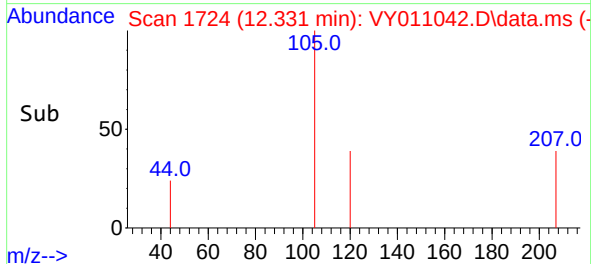
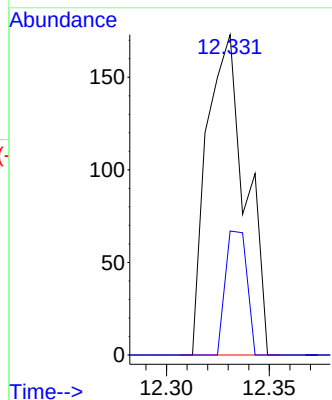
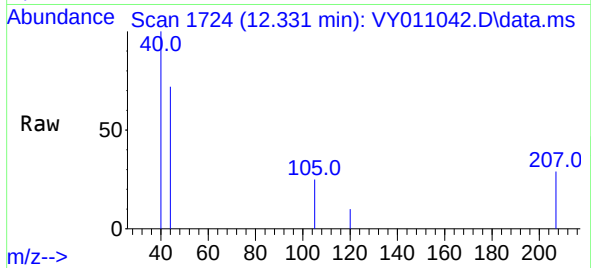




#73
Isopropylbenzene
Concen: 2.444 ug/l
RT: 12.331 min Scan# 1723
Delta R.T. 0.006 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

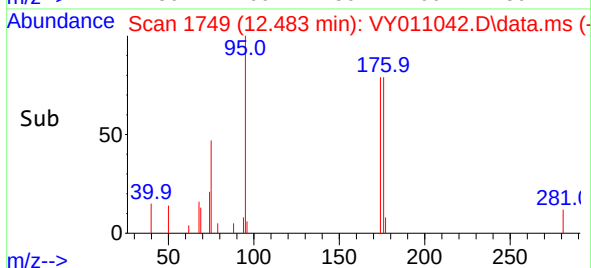
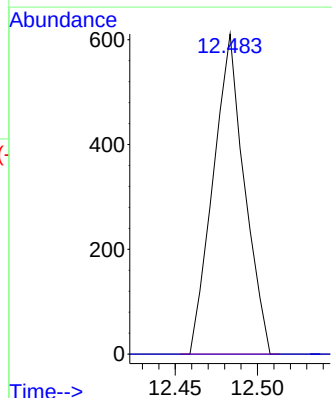
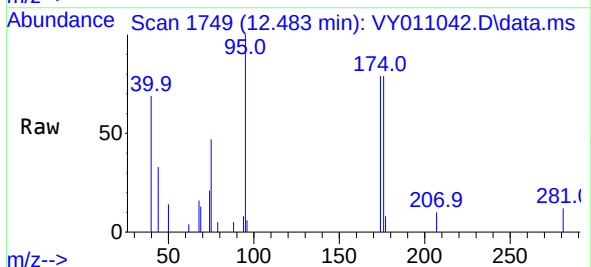
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

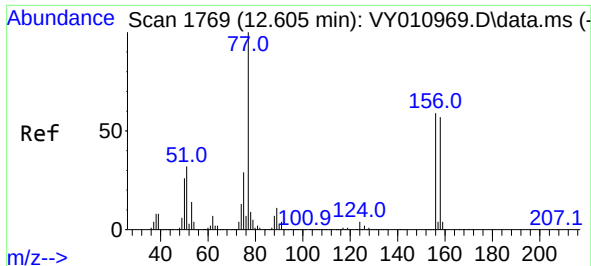
Tgt Ion:105 Resp: 226
Ion Ratio Lower Upper
105 100
120 21.7 13.4 40.2



#76
1,2,3-Trichloropropane
Concen: 55.976 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 75 Resp: 809
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

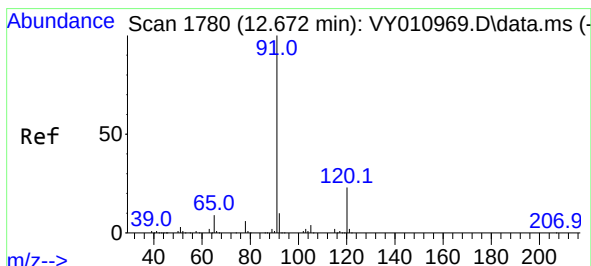
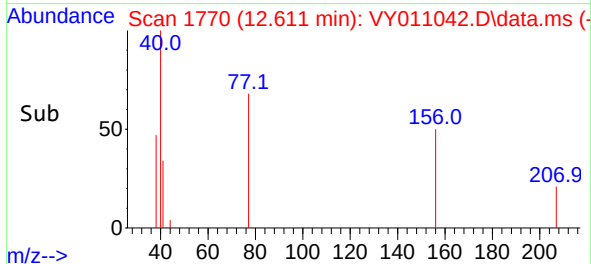
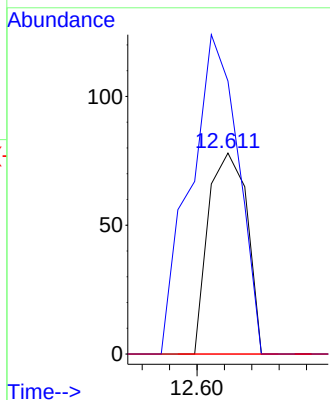
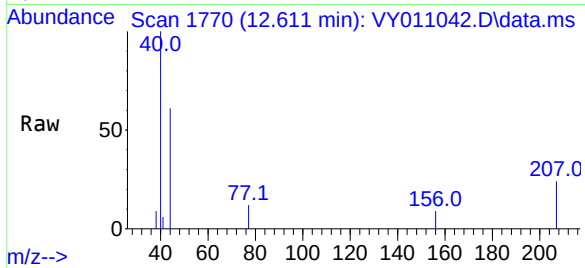




#77
Bromobenzene
Concen: 3.515 ug/l
RT: 12.611 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

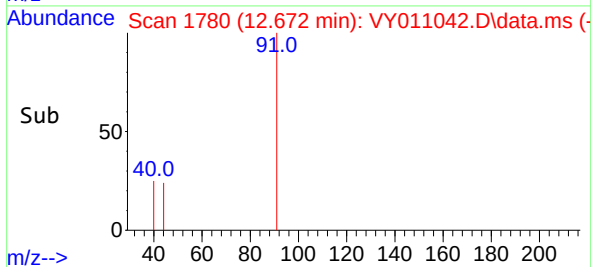
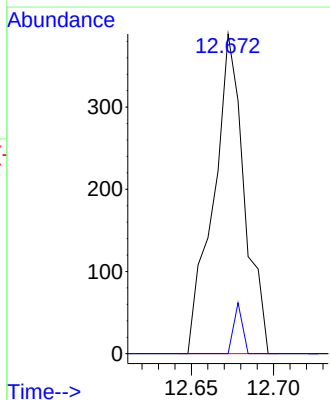
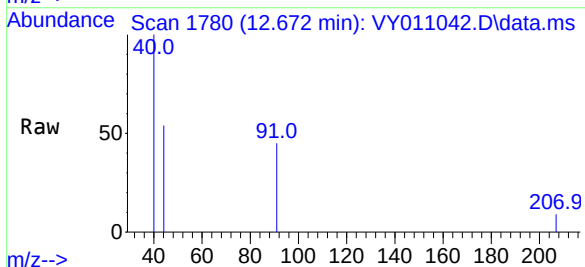
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

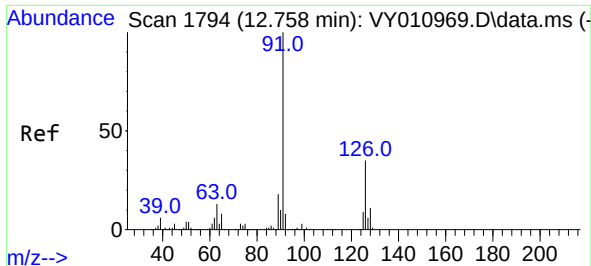
Tgt Ion:156 Resp: 76
Ion Ratio Lower Upper
156 100
77 197.4 95.5 286.4
158 0.0 48.0 144.0#



#78
n-propylbenzene
Concen: 4.515 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 91 Resp: 508
Ion Ratio Lower Upper
91 100
120 4.5 11.3 33.9#

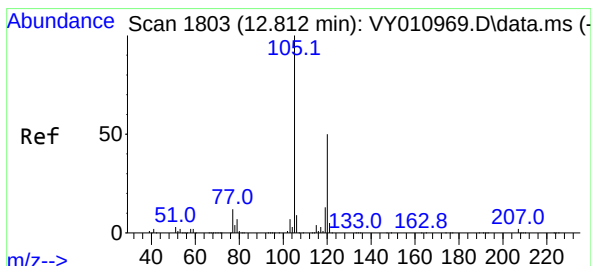
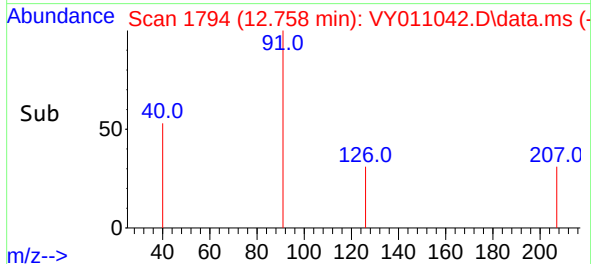
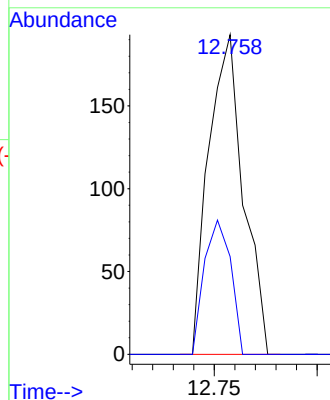
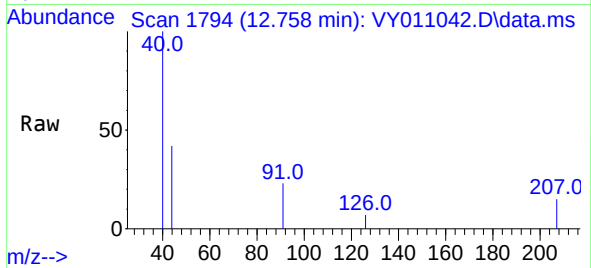




#79
2-Chlorotoluene
Concen: 3.566 ug/l
RT: 12.758 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

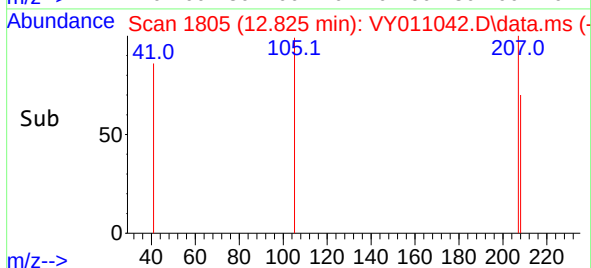
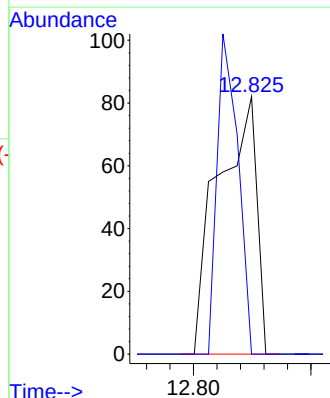
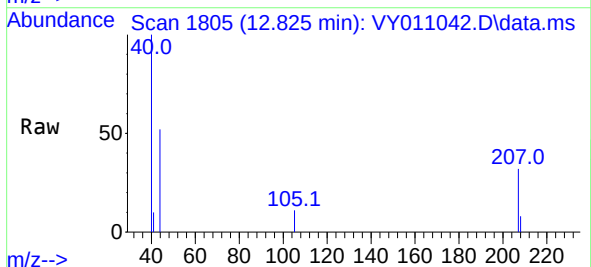
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

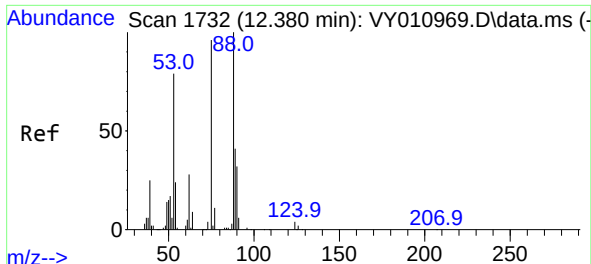
Tgt Ion: 91 Resp: 226
Ion Ratio Lower Upper
91 100
126 31.9 16.9 50.6



#80
1,3,5-Trimethylbenzene
Concen: 1.205 ug/l
RT: 12.825 min Scan# 1805
Delta R.T. 0.013 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 105 Resp: 93
Ion Ratio Lower Upper
105 100
120 67.7 24.4 73.4

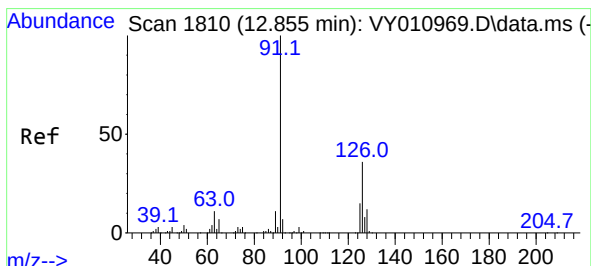
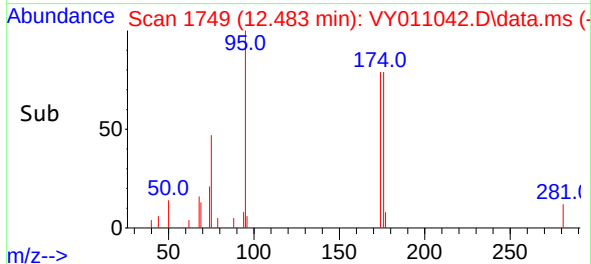
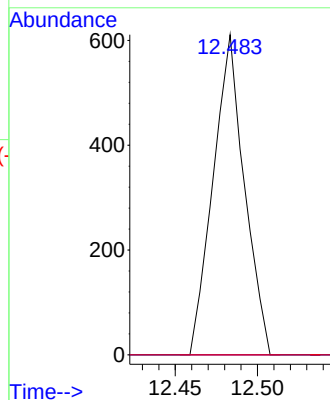
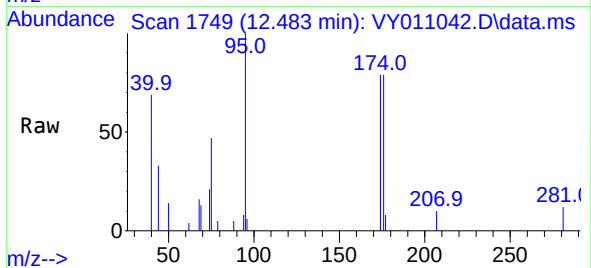




#81
trans-1,4-Dichloro-2-butene
Concen: 120.389 ug/l
RT: 12.483 min Scan# 1794
Delta R.T. 0.103 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

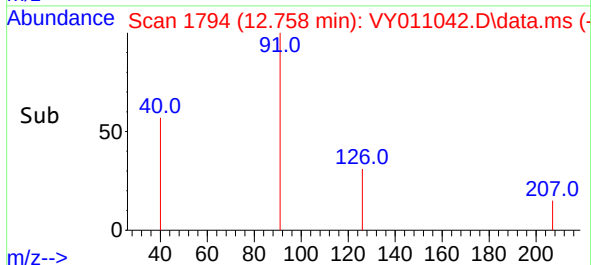
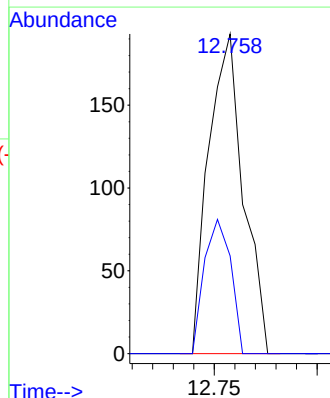
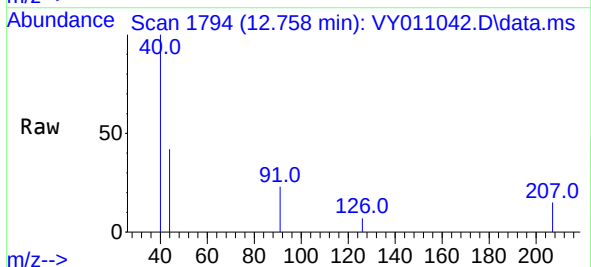
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

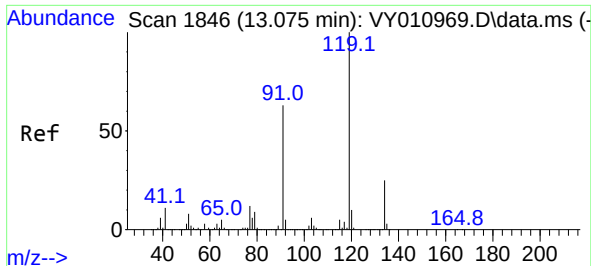
Tgt Ion: 75 Resp: 809
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.0 37.0 55.4#



#82
4-Chlorotoluene
Concen: 3.425 ug/l
RT: 12.758 min Scan# 1794
Delta R.T. -0.097 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 91 Resp: 226
Ion Ratio Lower Upper
91 100
126 31.9 17.0 51.0

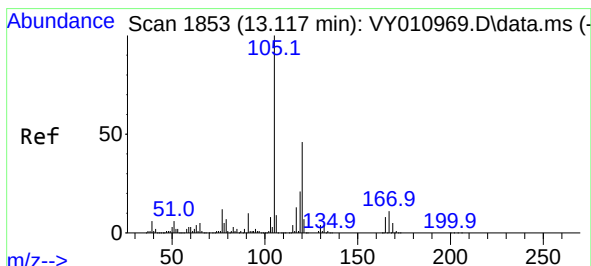
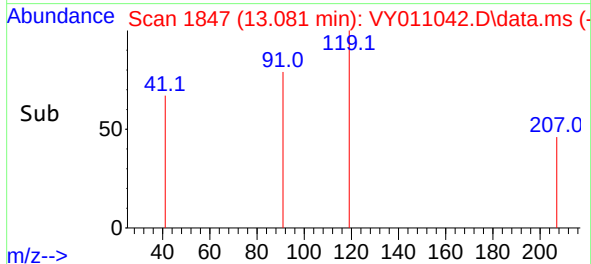
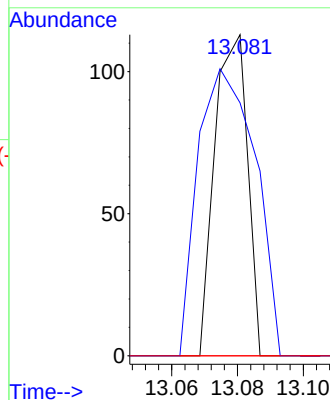
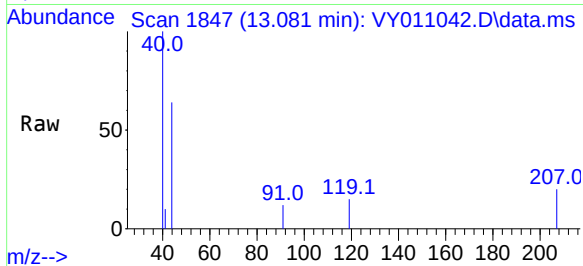




#83
tert-Butylbenzene
Concen: 1.169 ug/l
RT: 13.081 min Scan# 119
Delta R.T. 0.006 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

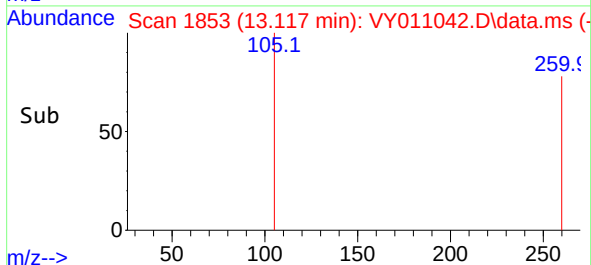
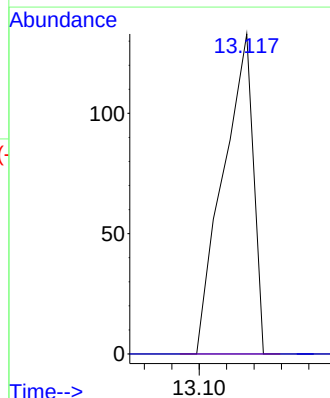
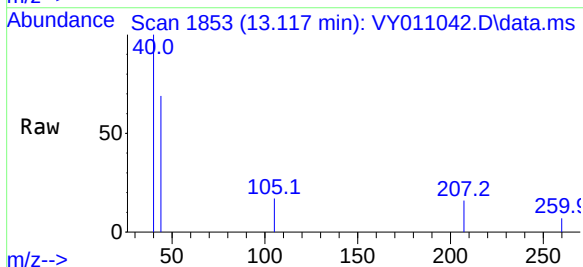
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

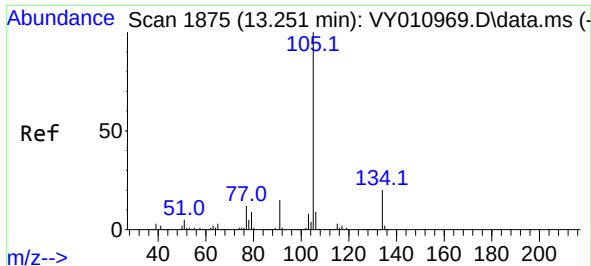
Tgt Ion:119 Resp: 78
Ion Ratio Lower Upper
119 100
91 156.4 34.8 104.4#
134 0.0 13.3 39.9#



#84
1,2,4-Trimethylbenzene
Concen: 1.340 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion:105 Resp: 102
Ion Ratio Lower Upper
105 100
120 0.0 22.3 66.9#

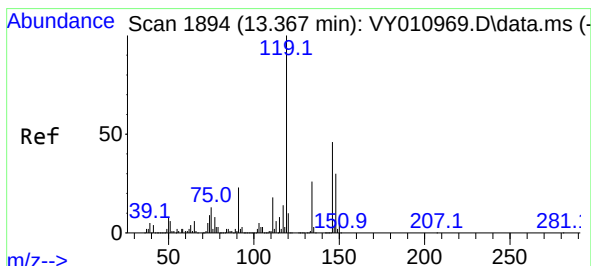
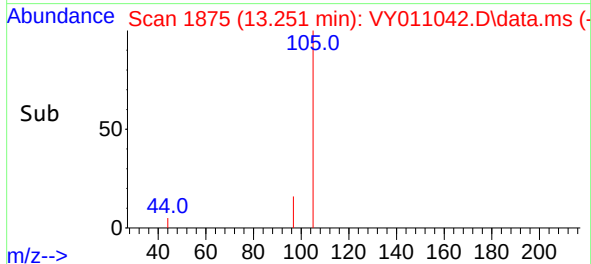
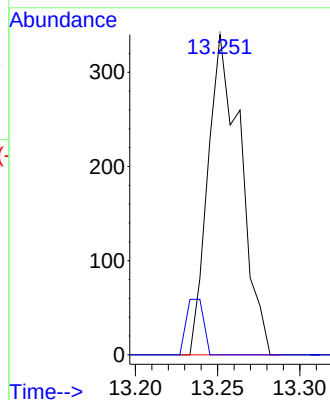
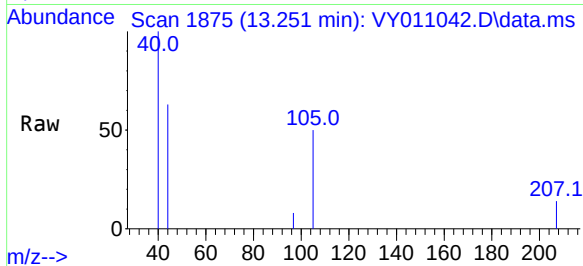




#85
 sec-Butylbenzene
 Concen: 4.697 ug/l
 RT: 13.251 min Scan# 1875
 Delta R.T. 0.000 min
 Lab File: VY011042.D
 Acq: 21 Oct 2022 12:06

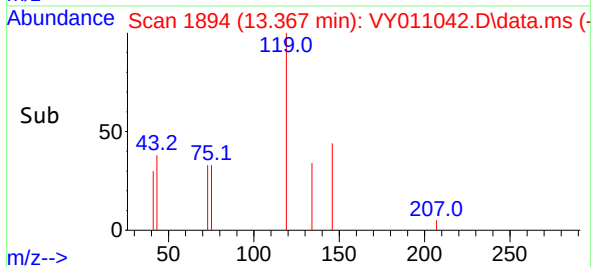
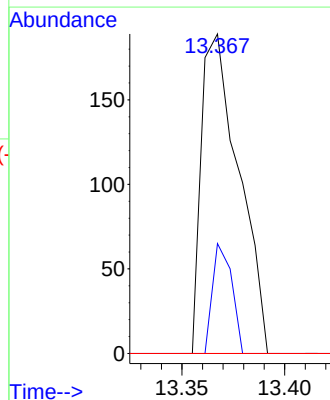
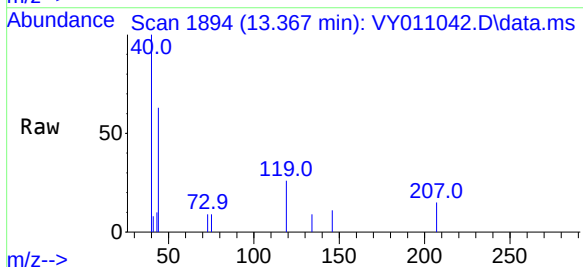
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-A1-3.5-4.0

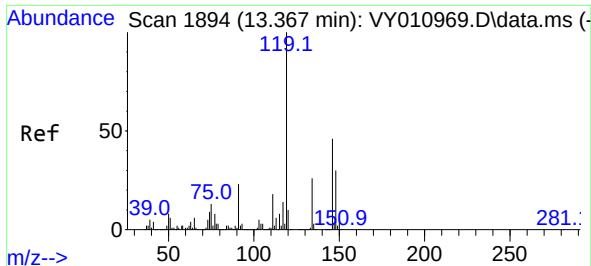
Tgt Ion:105 Resp: 471
 Ion Ratio Lower Upper
 105 100
 134 9.1 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 2.885 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. 0.000 min
 Lab File: VY011042.D
 Acq: 21 Oct 2022 12:06

Tgt Ion:119 Resp: 240
 Ion Ratio Lower Upper
 119 100
 134 17.5 13.2 39.5
 91 0.0 12.4 37.2#





#87

1,3-Dichlorobenzene

Concen: 2.944 ug/l

RT: 13.361 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY011042.D

Acq: 21 Oct 2022 12:06

Instrument :

MSVOA_Y

ClientSampleId :

SB-A1-3.5-4.0

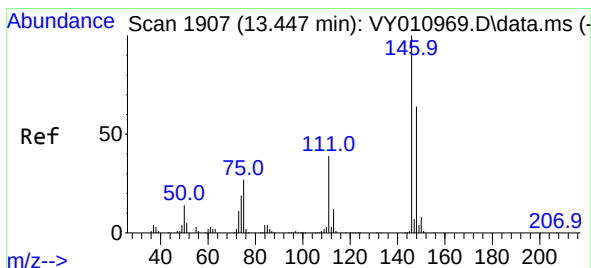
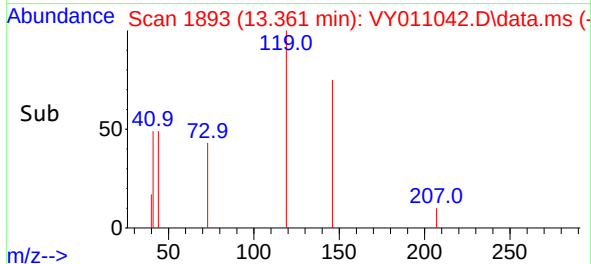
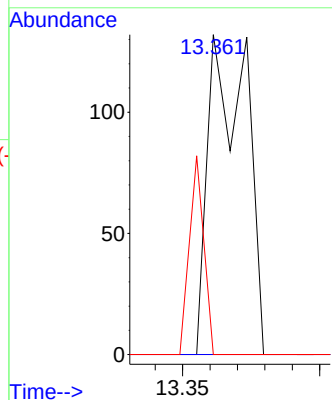
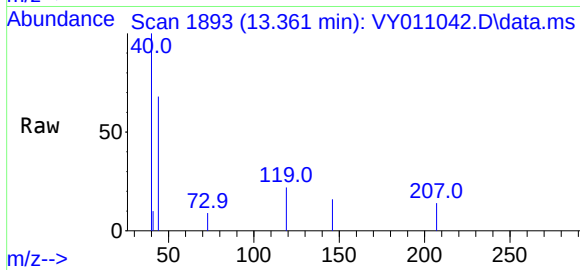
Tgt Ion:146 Resp: 127

Ion Ratio Lower Upper

146 100

111 0.0 19.5 58.5#

148 23.6 31.6 95.0#



#88

1,4-Dichlorobenzene

Concen: 5.058 ug/l

RT: 13.447 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY011042.D

Acq: 21 Oct 2022 12:06

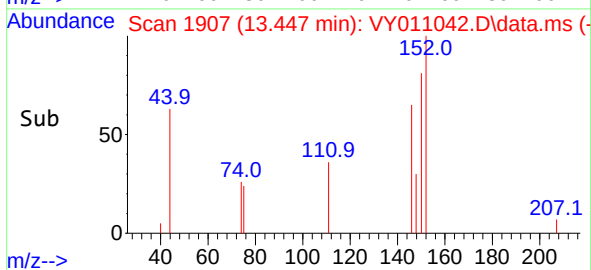
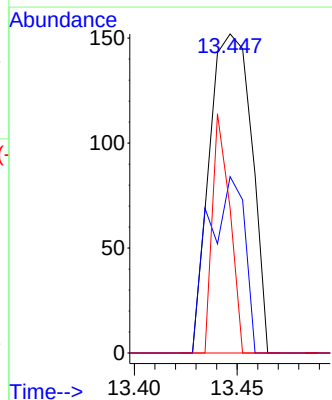
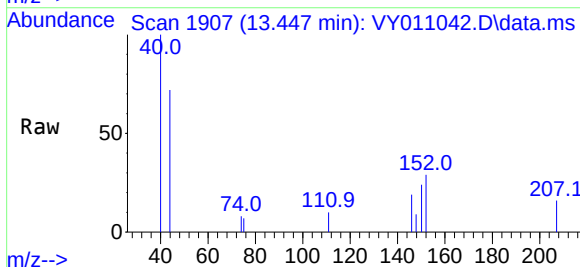
Tgt Ion:146 Resp: 217

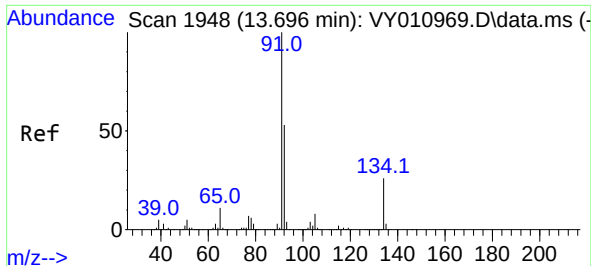
Ion Ratio Lower Upper

146 100

111 47.0 19.3 57.8

148 30.9 32.6 97.8#

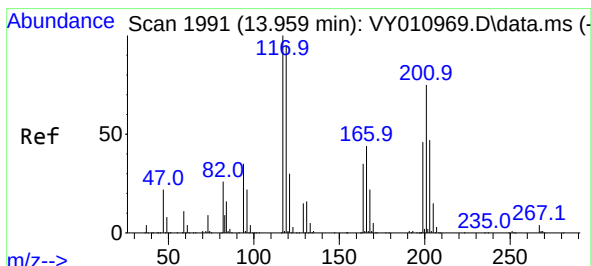
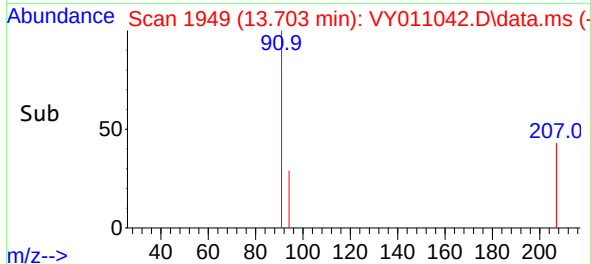
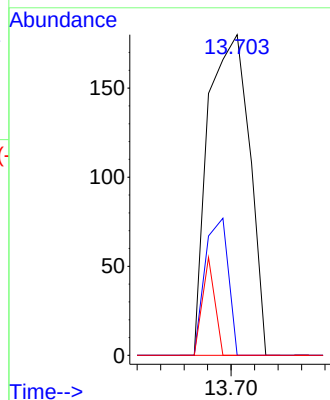
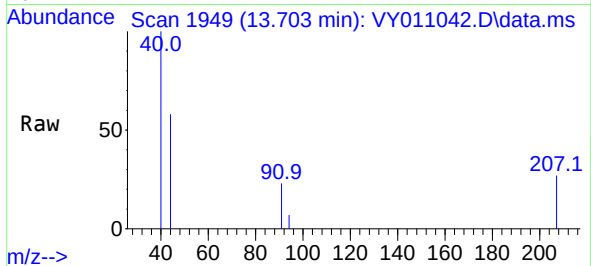




#89
n-Butylbenzene
Concen: 2.830 ug/l
RT: 13.703 min Scan# 1948
Delta R.T. 0.007 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

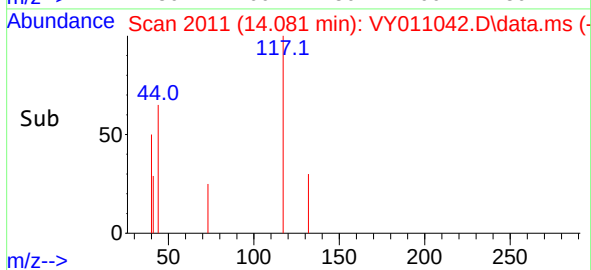
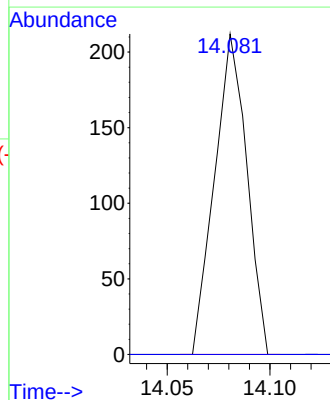
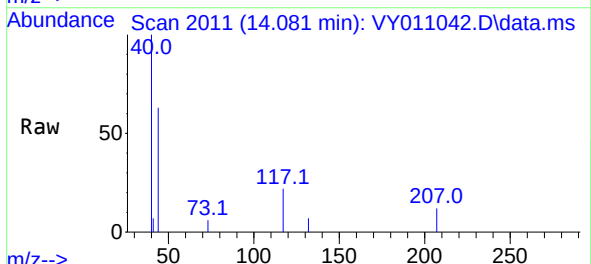
Instrument :
MSVOA_Y
ClientSampleId :
SB-A1-3.5-4.0

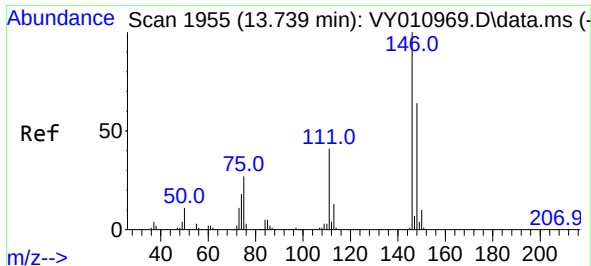
Tgt Ion: 91 Resp: 220
Ion Ratio Lower Upper
91 100
92 24.1 26.3 78.9#
134 9.1 13.0 38.9#



#90
Hexachloroethane
Concen: 14.071 ug/l
RT: 14.081 min Scan# 2011
Delta R.T. 0.122 min
Lab File: VY011042.D
Acq: 21 Oct 2022 12:06

Tgt Ion: 117 Resp: 231
Ion Ratio Lower Upper
117 100
201 0.0 43.0 128.8#





#91

1,2-Dichlorobenzene

Concen: 2.850 ug/l

RT: 13.733 min Scan# 1954

Delta R.T. -0.006 min

Lab File: VY011042.D

Acq: 21 Oct 2022 12:06

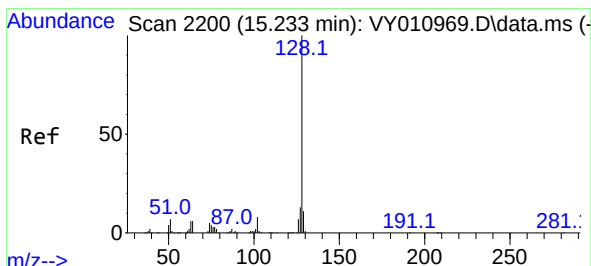
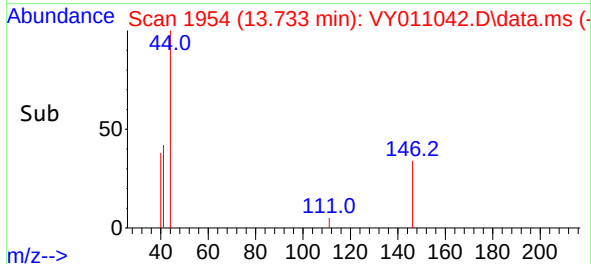
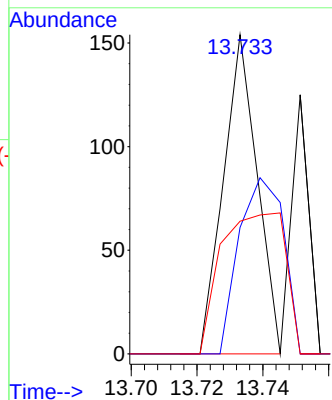
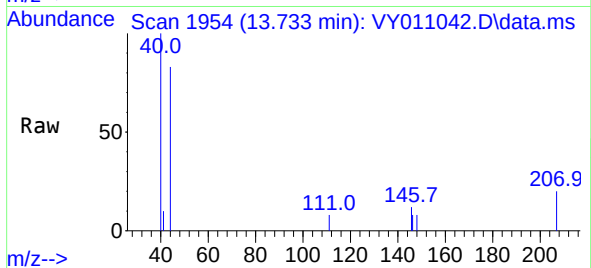
Instrument :

MSVOA_Y

ClientSampleId :

SB-A1-3.5-4.0

Tgt Ion:146	Resp:	110
Ion	Ratio	Lower Upper
146	100	
111	72.7	20.3 60.9#
148	83.6	32.3 96.9



#95

Naphthalene

Concen: 4.321 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. 0.006 min

Lab File: VY011042.D

Acq: 21 Oct 2022 12:06

Tgt Ion:128	Resp:	203
Ion	Ratio	Lower Upper
128	100	
127	0.0	11.0 16.4#
129	0.0	8.4 12.6#

