

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060223\
 Data File : VY013984.D
 Acq On : 02 Jun 2023 12:59
 Operator : KP/MD
 Sample : 03002-04
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB04

Quant Time: Jun 03 04:59:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060123S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 02 07:00:14 2023
 Response via : Initial Calibration

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

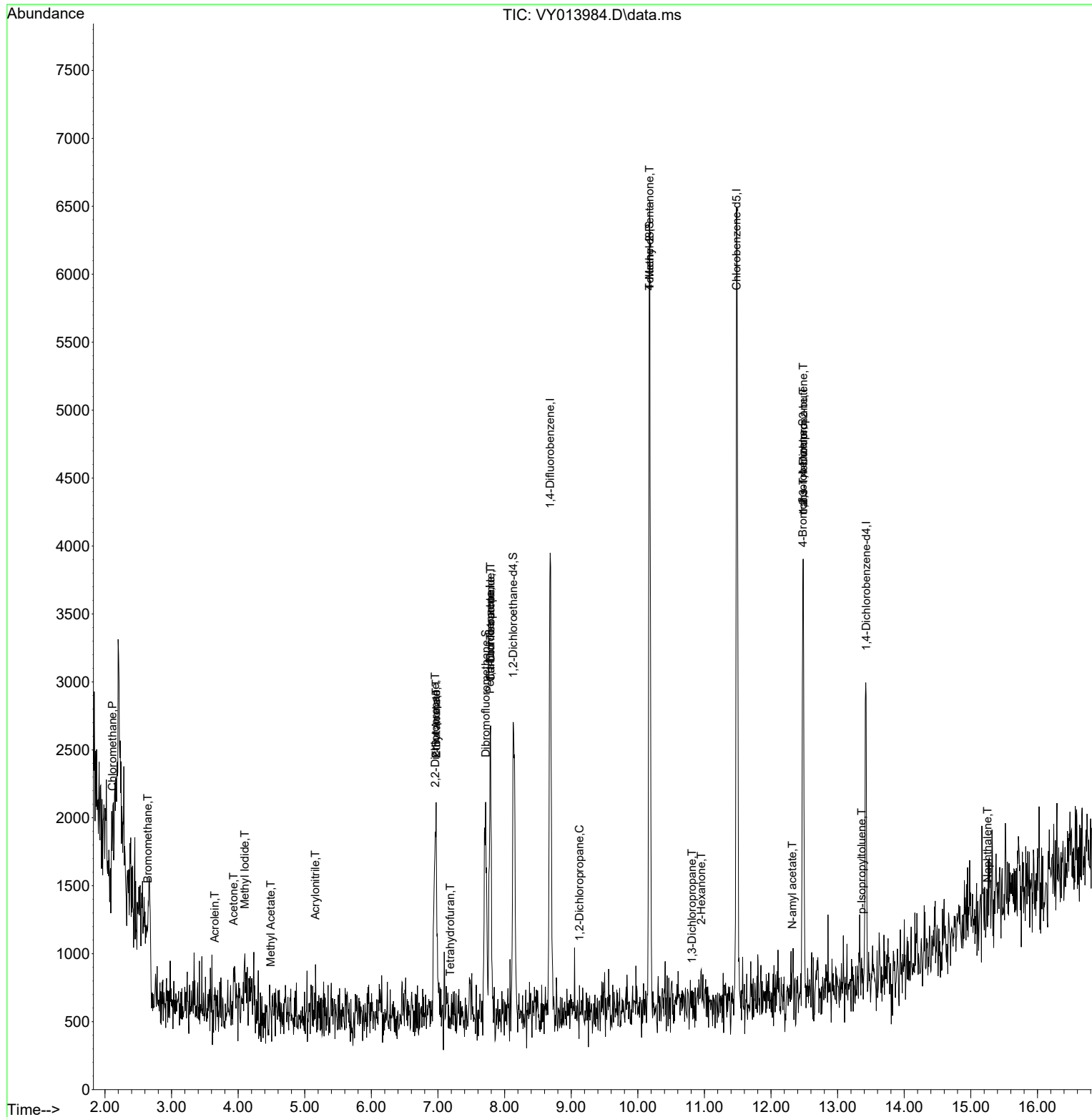
Internal Standards						
1) Pentafluorobenzene	7.783	168	1999	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	3448	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	3666	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	2107	79.623	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 159.240%	
35) Dibromofluoromethane	7.716	113	1453	66.309	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 132.620%	
50) Toluene-d8	10.179	98	4135	49.472	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.940%	
62) 4-Bromofluorobenzene	12.477	95	1059	37.164	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 74.320%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	212	8.703	ug/l #	87
5) Bromomethane	2.643	94	47	2.392	ug/l #	2
10) Methyl Iodide	4.100	142	540	21.379	ug/l #	50
13) Acrolein	3.649	56	23	9.235	ug/l #	14
15) Acrylonitrile	5.161	53	22	2.835	ug/l #	47
16) Acetone	3.930	43	323	35.677	ug/l #	46
18) Methyl Acetate	4.491	43	56	1.712	ug/l #	54
20) Methylene Chloride	4.698	84	92	Below Cal	#	56
25) 2-Butanone	6.972	43	42	3.724	ug/l #	49
26) 2,2-Dichloropropane	6.960	77	49	1.338	ug/l #	54
29) Tetrahydrofuran	7.185	42	22	3.137	ug/l #	35
36) 1,1-Dichloropropene	7.789	75	195	6.246	ug/l #	41
37) Ethyl Acetate	6.972	43	42	1.543	ug/l #	1
38) Carbon Tetrachloride	7.789	117	101	2.887	ug/l #	12
45) 1,2-Dichloropropane	9.124	63	26	1.046	ug/l #	45
51) 4-Methyl-2-Pentanone	10.179	43	42	1.623	ug/l #	39
57) 1,3-Dichloropropane	10.813	76	38	1.060	ug/l #	43
59) 2-Hexanone	10.953	43	27	1.440	ug/l #	27
74) N-amyl acetate	12.318	43	47	2.536	ug/l #	46
76) 1,2,3-Trichloropropane	12.483	75	536	54.414	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	536	115.439	ug/l #	10
86) p-Isopropyltoluene	13.361	119	49	1.151	ug/l #	49
95) Naphthalene	15.251	128	22	4.475	ug/l #	69

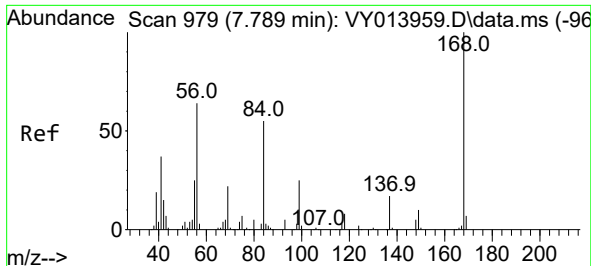
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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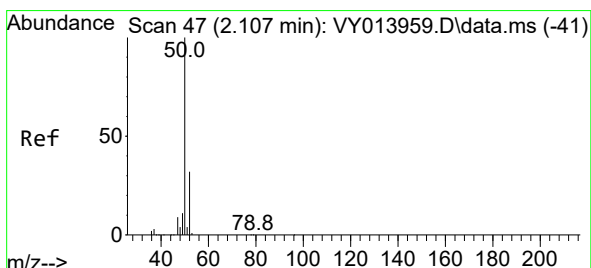
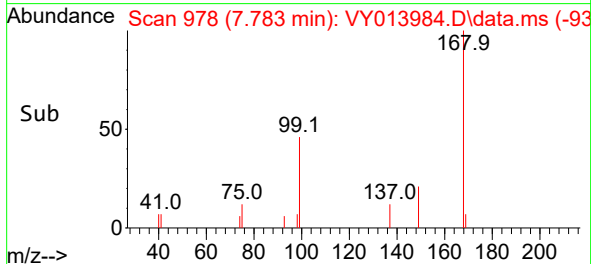
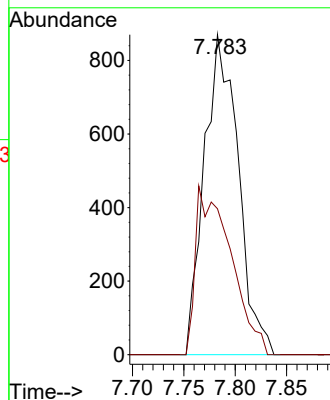
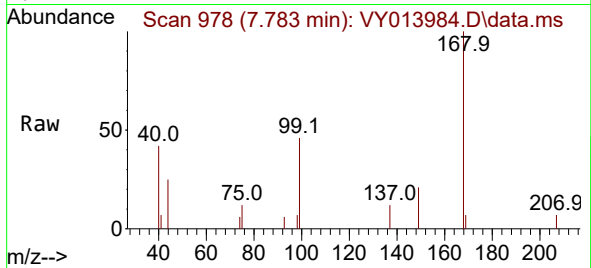




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

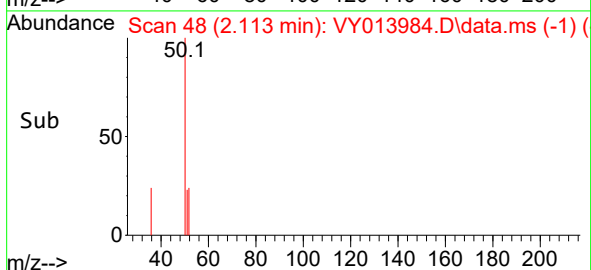
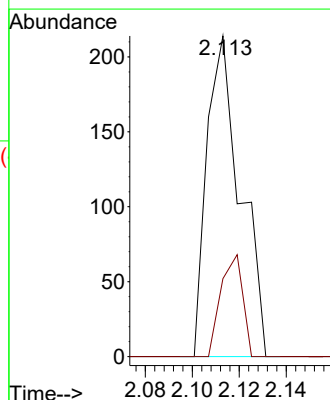
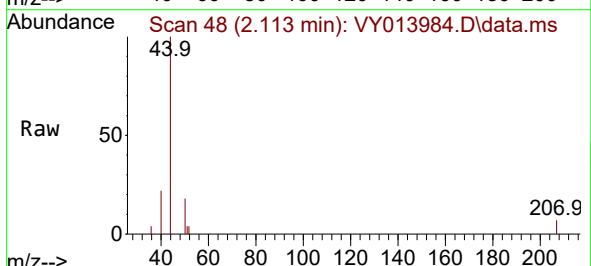
Instrument :
MSVOA_Y
ClientSampleId :
SB04

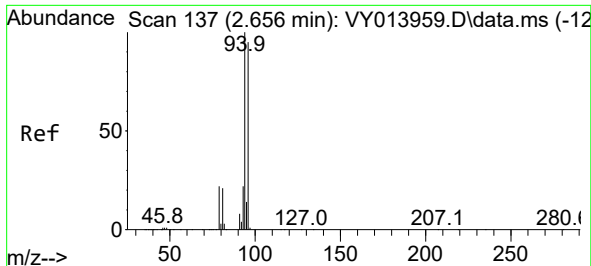
Tgt Ion:168 Resp: 1999
Ion Ratio Lower Upper
168 100
99 45.6 43.4 65.0



#3
Chloromethane
Concen: 8.703 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 50 Resp: 212
Ion Ratio Lower Upper
50 100
52 24.3 25.4 38.2#

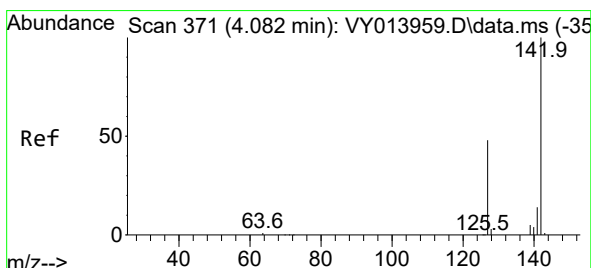
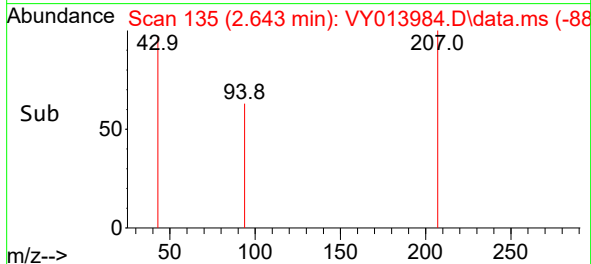
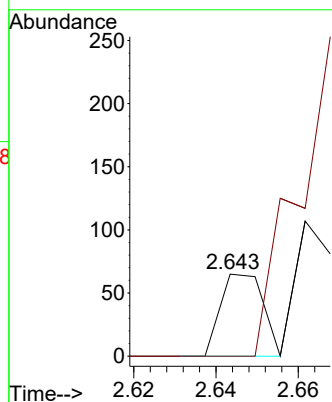
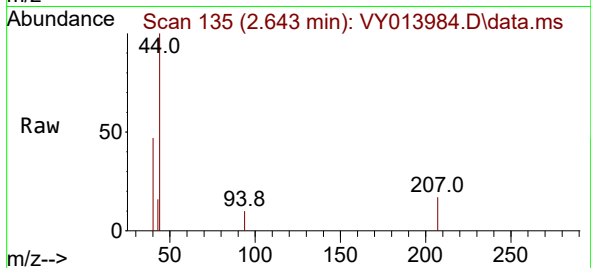




#5
Bromomethane
Concen: 2.392 ug/l
RT: 2.643 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

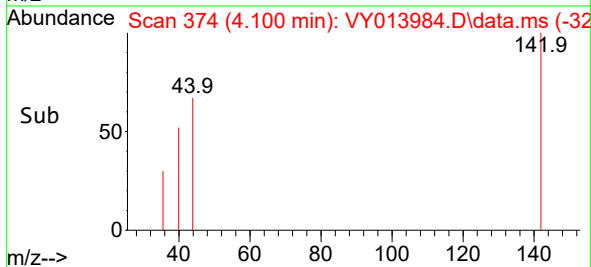
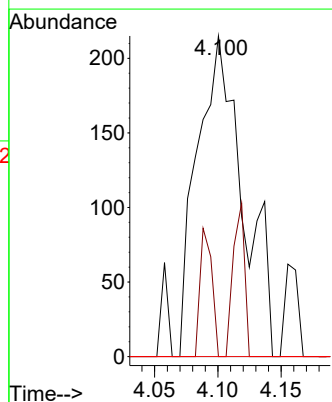
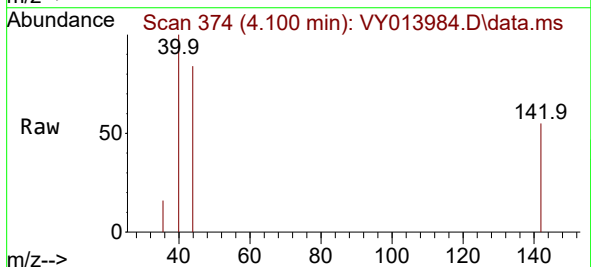
Instrument :
MSVOA_Y
ClientSampleId :
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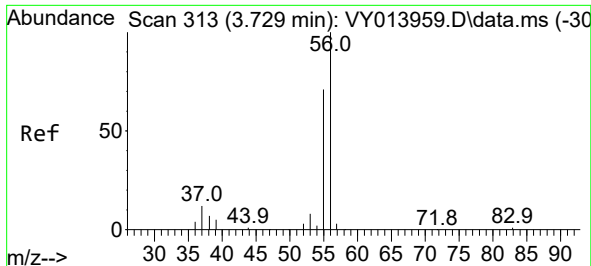
Tgt Ion: 94 Resp: 47
Ion Ratio Lower Upper
94 100
96 0.0 75.8 113.6#



#10
Methyl Iodide
Concen: 21.379 ug/l
RT: 4.100 min Scan# 374
Delta R.T. 0.018 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 142 Resp: 540
Ion Ratio Lower Upper
142 100
127 10.4 37.6 56.4#
141 0.0 11.8 17.8#

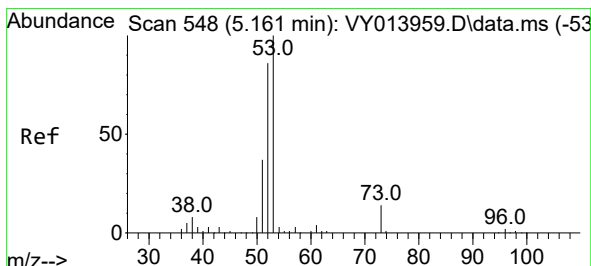
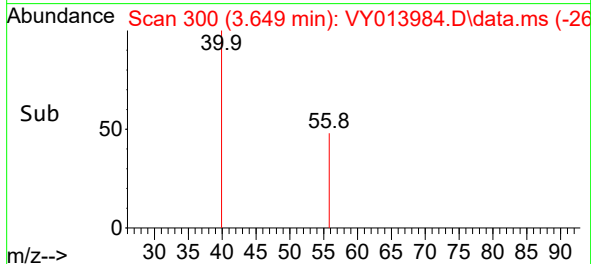
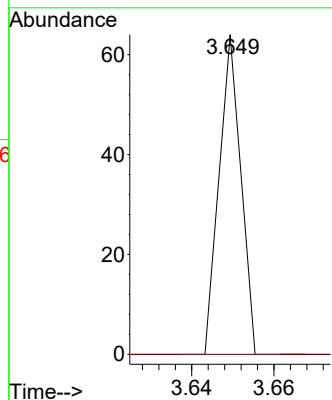
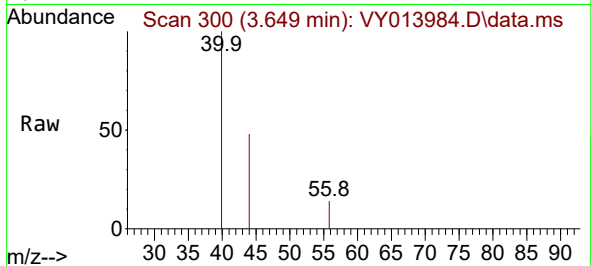




#13
Acrolein
Concen: 9.235 ug/l
RT: 3.649 min Scan# 30
Delta R.T. -0.079 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

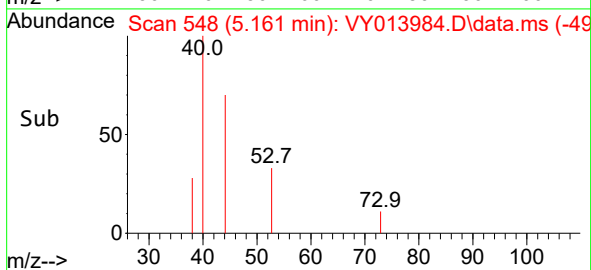
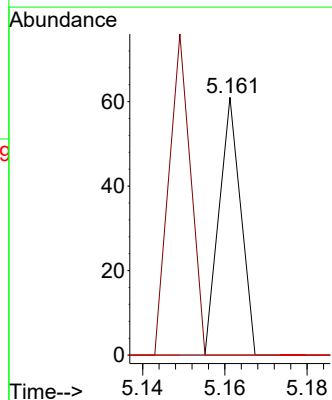
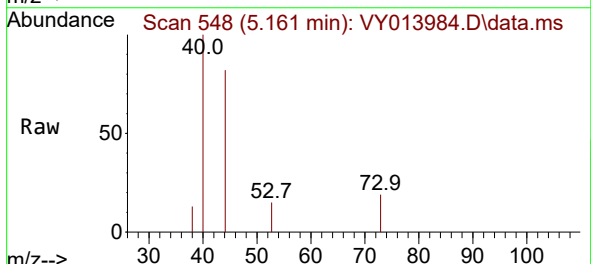
Instrument :
MSVOA_Y
ClientSampleId :
SB04

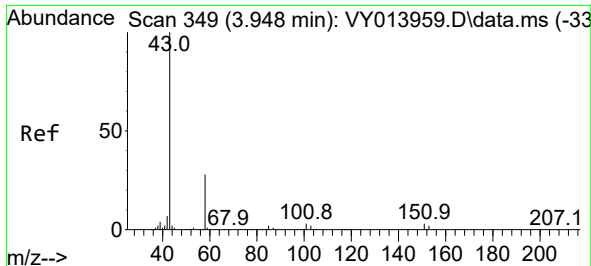
Tgt Ion: 56 Resp: 23
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#15
Acrylonitrile
Concen: 2.835 ug/l
RT: 5.161 min Scan# 548
Delta R.T. -0.000 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 53 Resp: 22
Ion Ratio Lower Upper
53 100
52 127.3 66.9 100.3#
51 0.0 29.8 44.6#

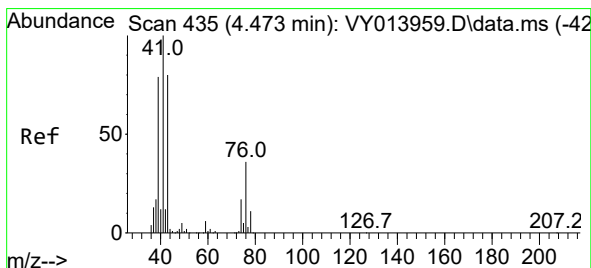
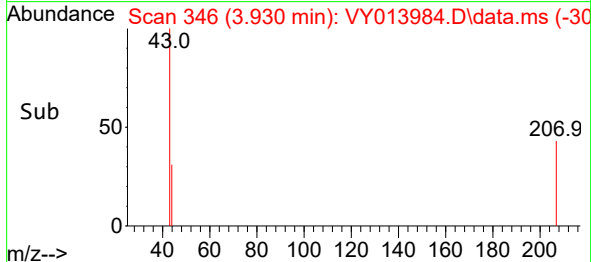
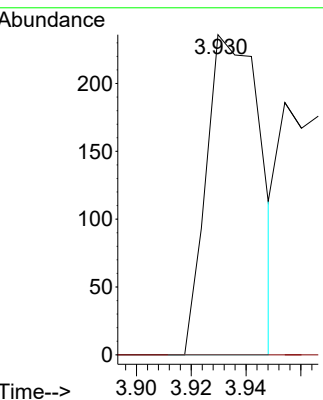
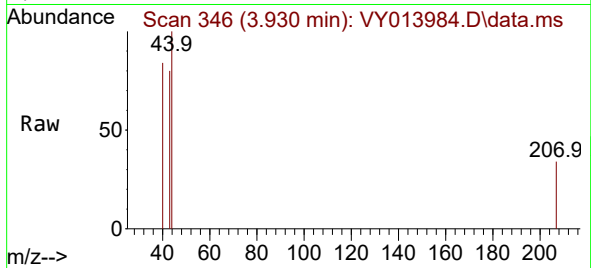




#16
Acetone
Concen: 35.677 ug/l
RT: 3.930 min Scan# 349
Delta R.T. -0.019 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

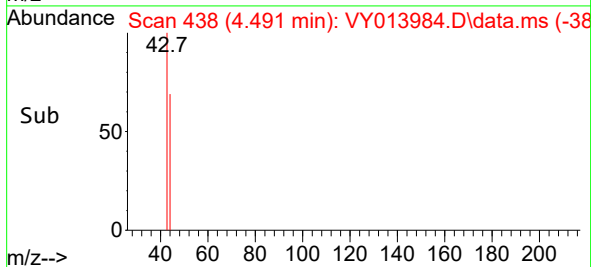
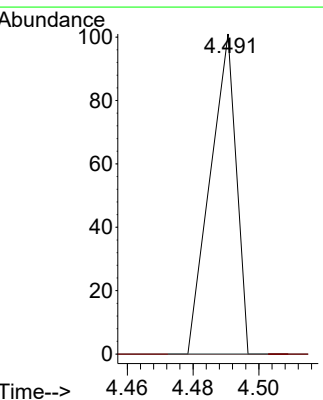
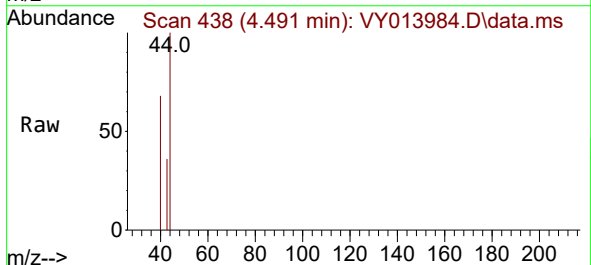
Instrument :
MSVOA_Y
ClientSampleId :
SB04

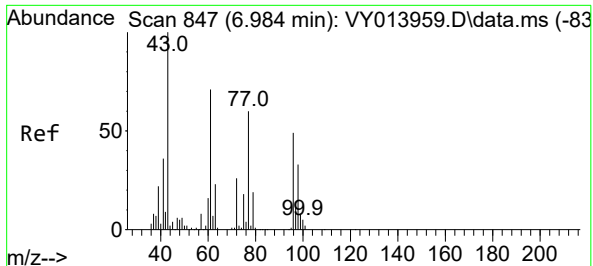
Tgt Ion: 43 Resp: 323
Ion Ratio Lower Upper
43 100
58 0.0 22.7 34.1#



#18
Methyl Acetate
Concen: 1.712 ug/l
RT: 4.491 min Scan# 438
Delta R.T. 0.018 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#





#25

2-Butanone

Concen: 3.724 ug/l

RT: 6.972 min Scan# 84

Delta R.T. -0.012 min

Lab File: VY013984.D

Acq: 02 Jun 2023 12:59

Instrument :

MSVOA_Y

ClientSampleId :

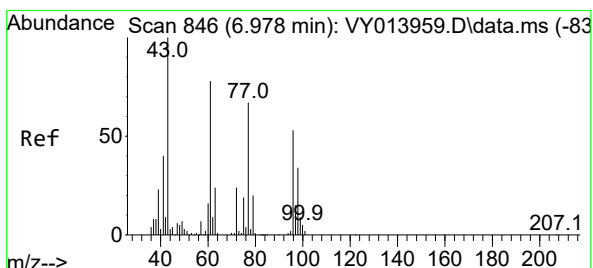
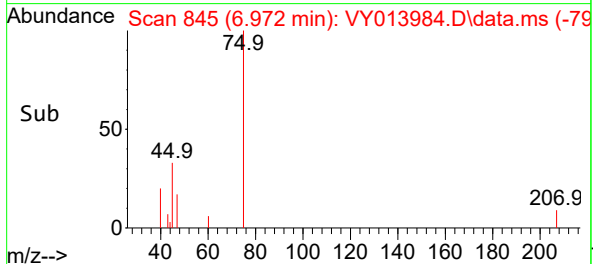
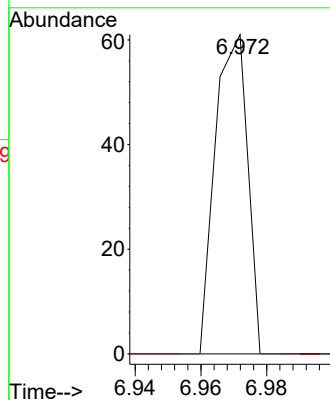
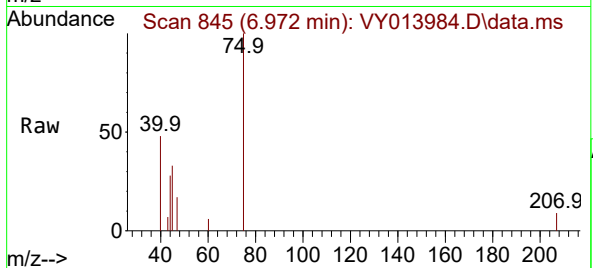
SB04

Tgt Ion: 43 Resp: 42

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 1.338 ug/l

RT: 6.960 min Scan# 843

Delta R.T. -0.019 min

Lab File: VY013984.D

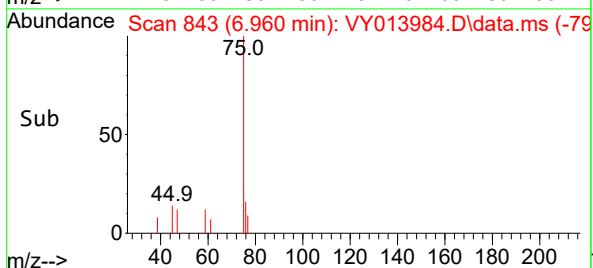
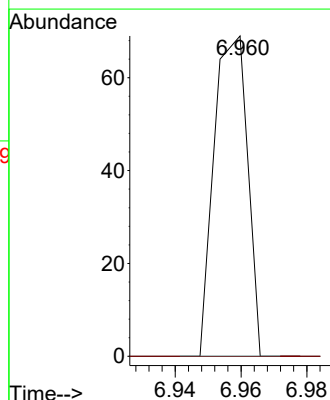
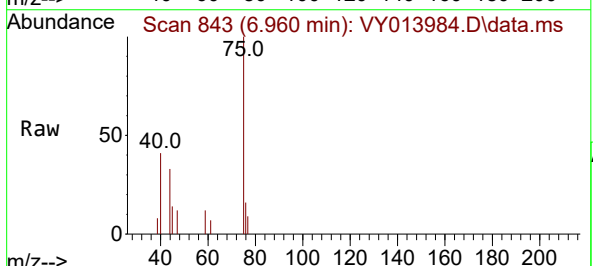
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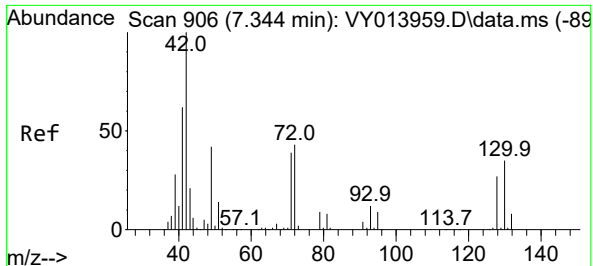
Tgt Ion: 77 Resp: 49

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#29

Tetrahydrofuran

Concen: 3.137 ug/l

RT: 7.185 min Scan# 81

Delta R.T. -0.159 min

Lab File: VY013984.D

Acq: 02 Jun 2023 12:59

Instrument :

MSVOA_Y

ClientSampleId :

SB04

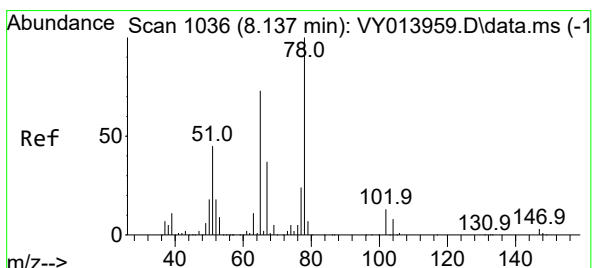
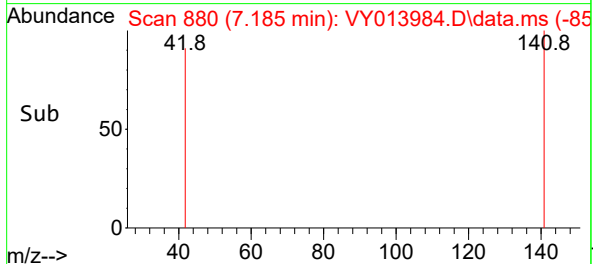
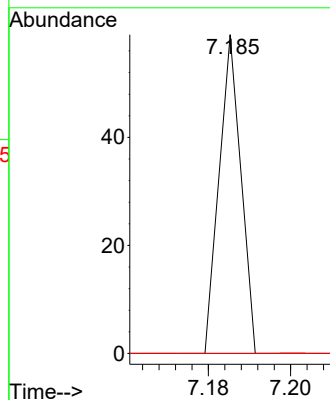
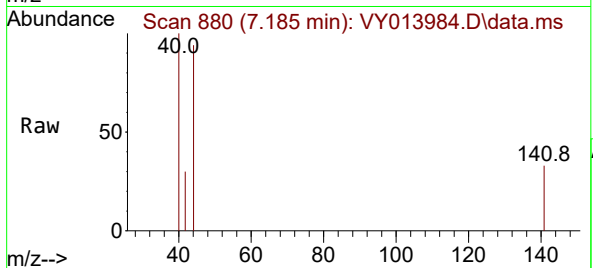
Tgt Ion: 42 Resp: 22

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 31.0 46.4#



#33

1,2-Dichloroethane-d4

Concen: 79.623 ug/l

RT: 8.130 min Scan# 1035

Delta R.T. -0.006 min

Lab File: VY013984.D

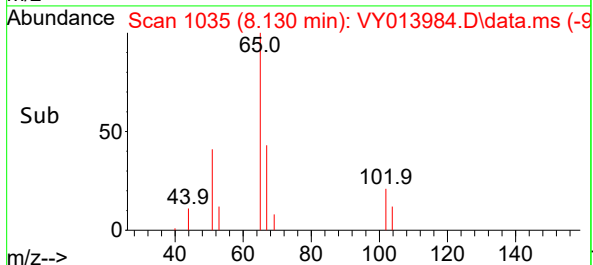
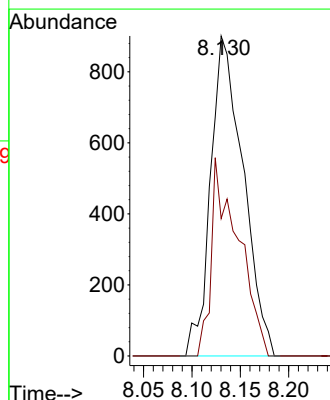
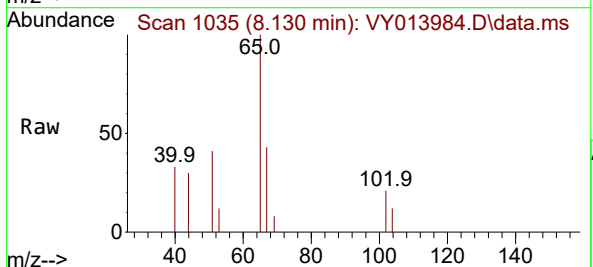
Acq: 02 Jun 2023 12:59

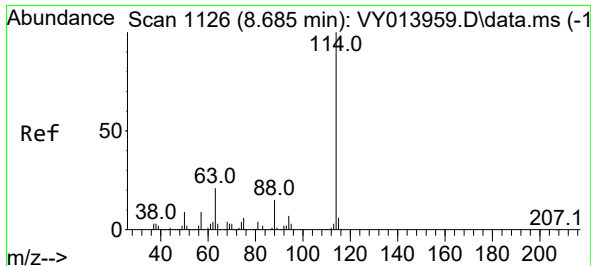
Tgt Ion: 65 Resp: 2107

Ion Ratio Lower Upper

65 100

67 51.3 0.0 101.8

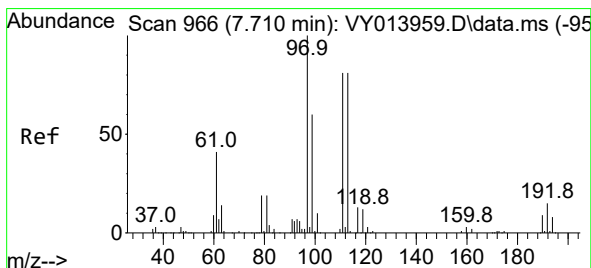
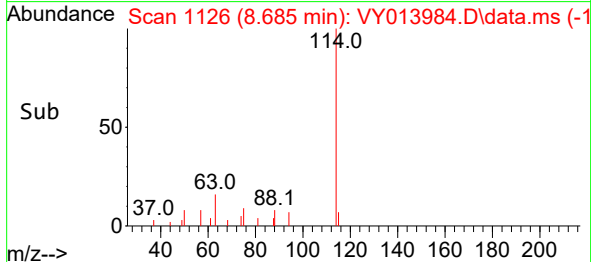
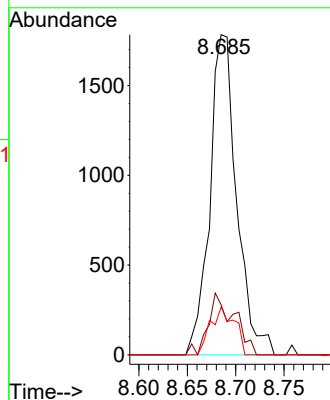
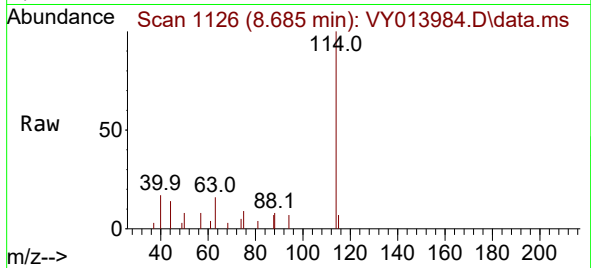




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

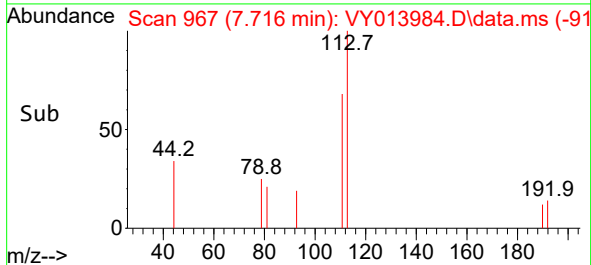
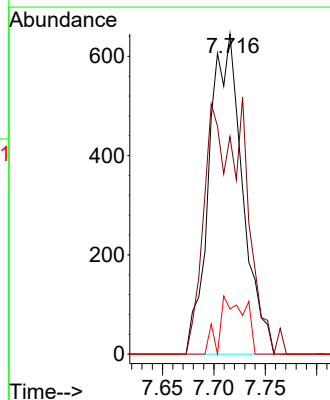
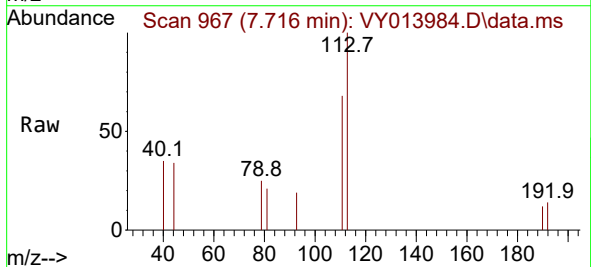
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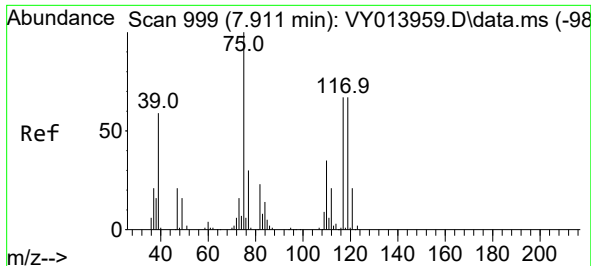
Tgt Ion:114	Resp:	3448
Ion	Ratio	Lower Upper
114	100	
63	15.6	0.0 42.4
88	15.0	0.0 30.6



#35
Dibromofluoromethane
Concen: 66.309 ug/l
RT: 7.716 min Scan# 967
Delta R.T. 0.006 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion:113	Resp:	1453
Ion	Ratio	Lower Upper
113	100	
111	47.0	81.3 121.9#
192	13.9	16.9 25.3#

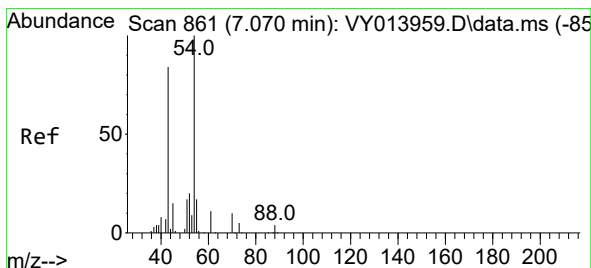
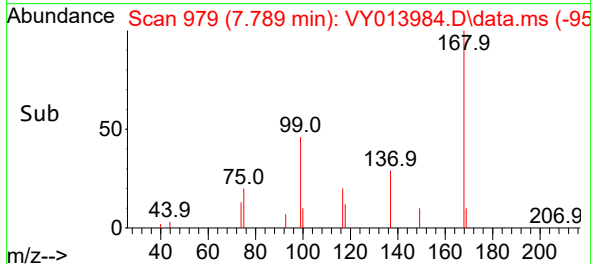
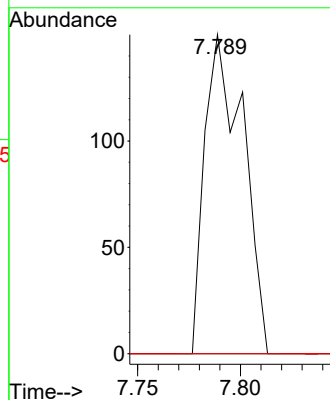
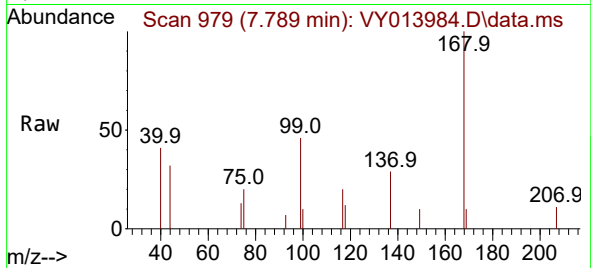




#36
1,1-Dichloropropene
Concen: 6.246 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

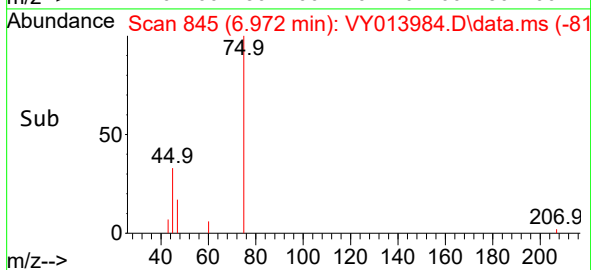
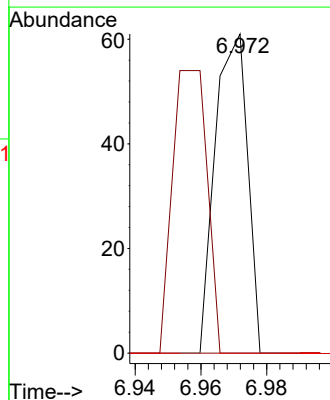
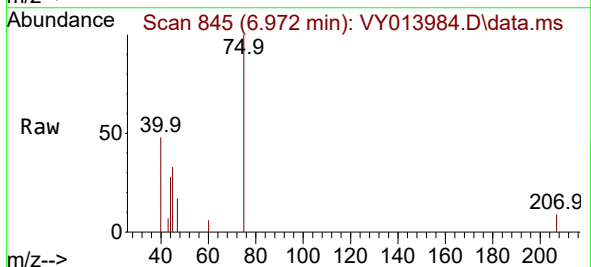
Instrument :
MSVOA_Y
ClientSampleId :
SB04

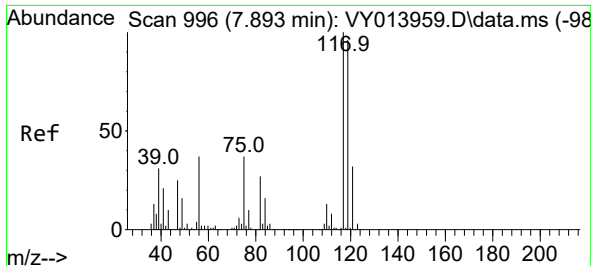
Tgt Ion: 75 Resp: 195
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.543 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.098 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
61 95.2 10.1 15.1#
70 0.0 7.1 10.7#

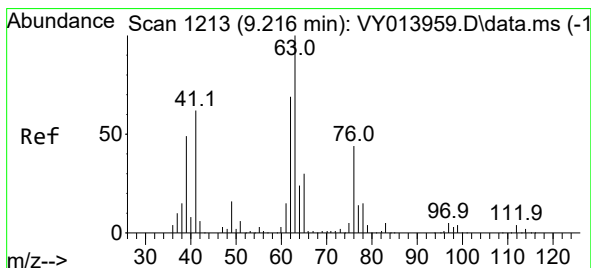
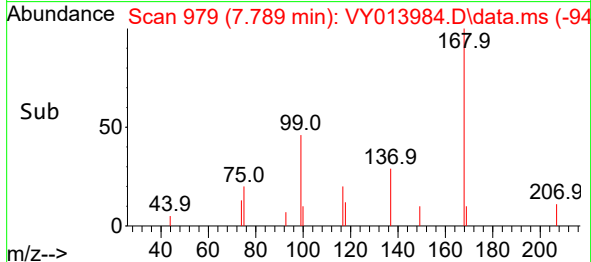
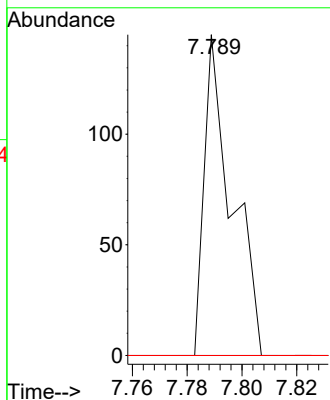
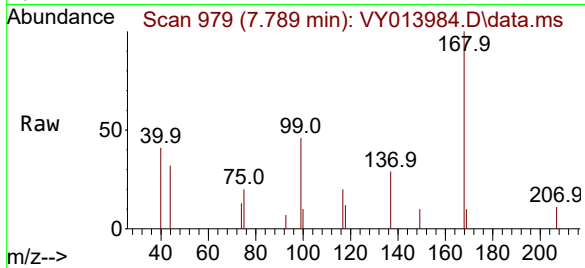




#38
Carbon Tetrachloride
Concen: 2.887 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

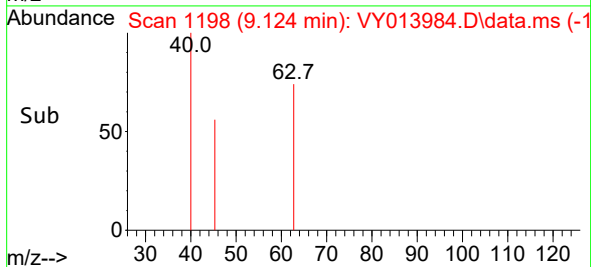
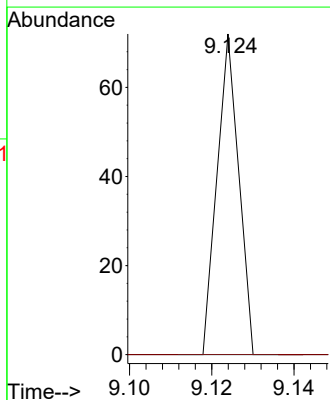
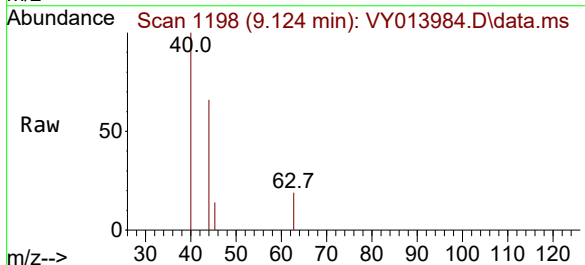
Instrument :
MSVOA_Y
ClientSampleId :
SB04

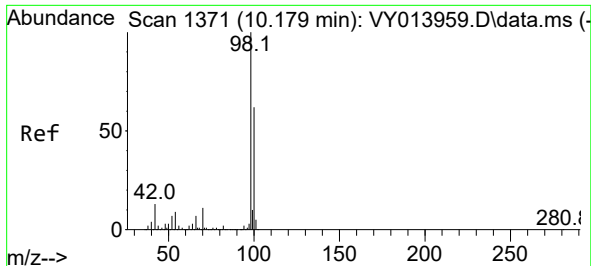
Tgt Ion:117 Resp: 101
Ion Ratio Lower Upper
117 100
119 0.0 76.4 114.6#
121 0.0 25.8 38.6#



#45
1,2-Dichloropropane
Concen: 1.046 ug/l
RT: 9.124 min Scan# 1198
Delta R.T. -0.092 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 63 Resp: 26
Ion Ratio Lower Upper
63 100
65 0.0 23.8 35.6#

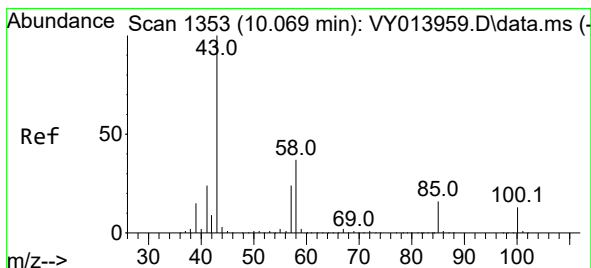
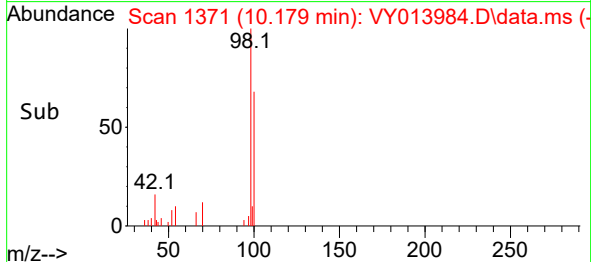
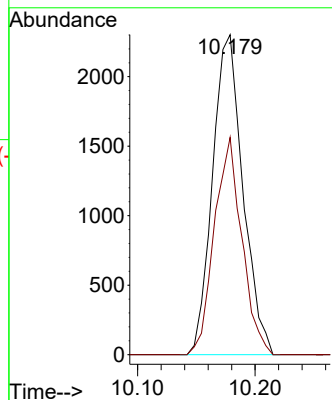
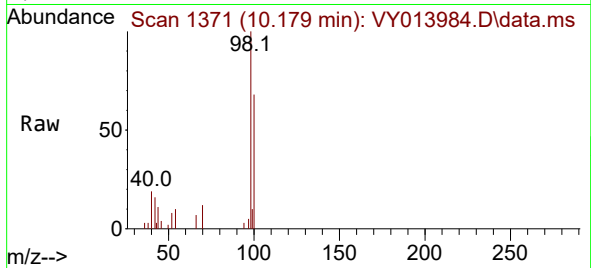




#50
Toluene-d8
Concen: 49.472 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

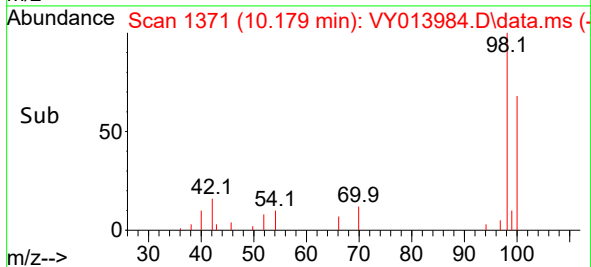
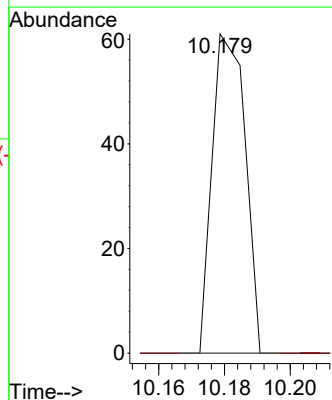
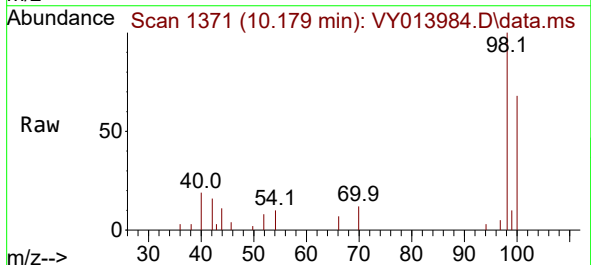
Instrument :
MSVOA_Y
ClientSampleId :
SB04

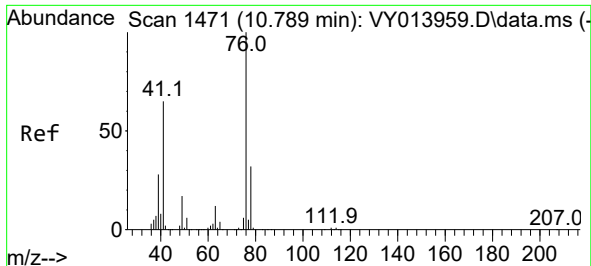
Tgt Ion: 98 Resp: 4135
Ion Ratio Lower Upper
98 100
100 61.6 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 1.623 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.110 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#





#57

1,3-Dichloropropane

Concen: 1.060 ug/l

RT: 10.813 min Scan# 14

Delta R.T. 0.024 min

Lab File: VY013984.D

Acq: 02 Jun 2023 12:59

Instrument :

MSVOA_Y

ClientSampleId :

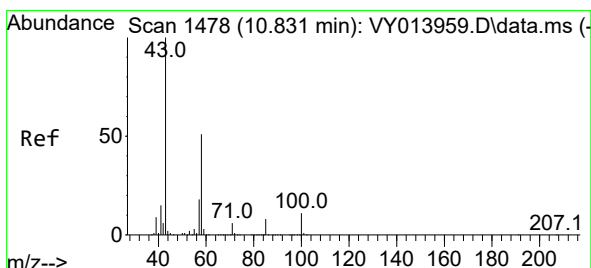
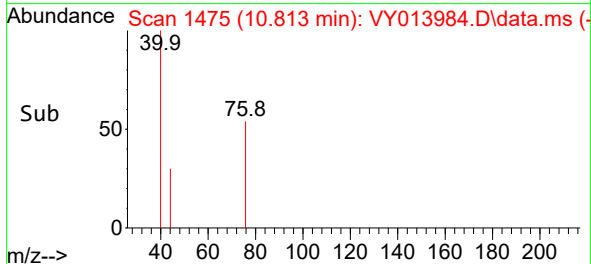
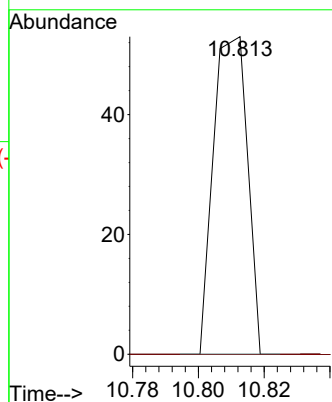
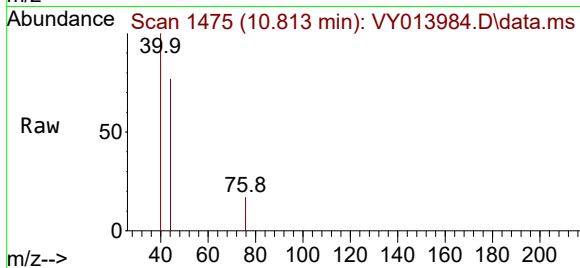
SB04

Tgt Ion: 76 Resp: 38

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 1.440 ug/l

RT: 10.953 min Scan# 1498

Delta R.T. 0.122 min

Lab File: VY013984.D

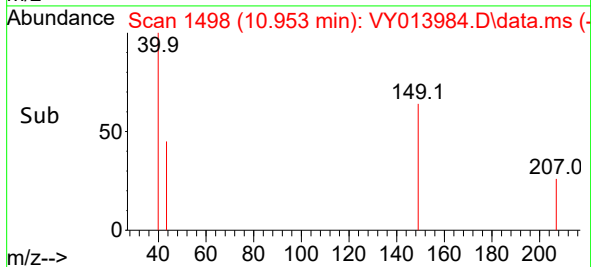
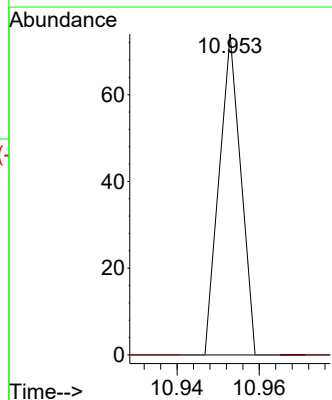
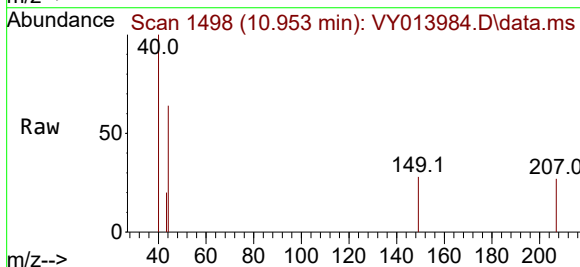
Acq: 02 Jun 2023 12:59

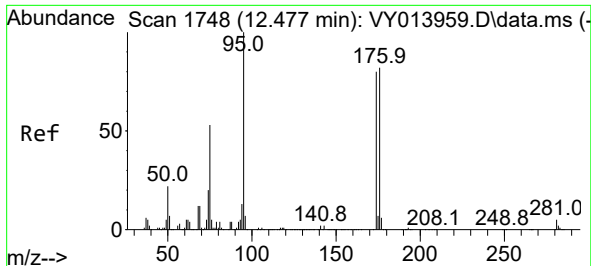
Tgt Ion: 43 Resp: 27

Ion Ratio Lower Upper

43 100

58 0.0 25.1 75.3#

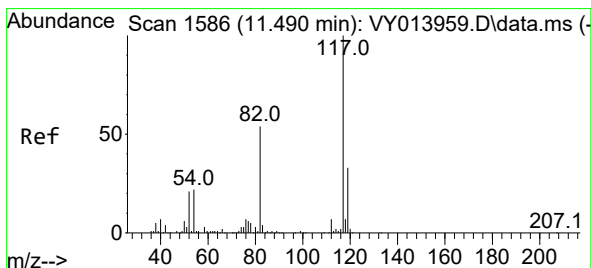
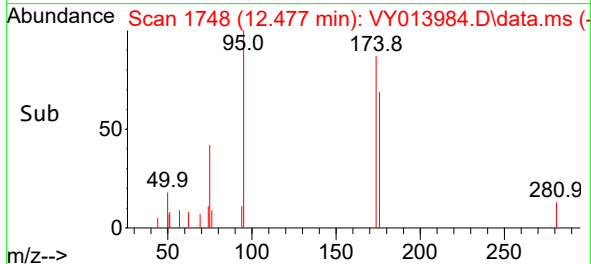
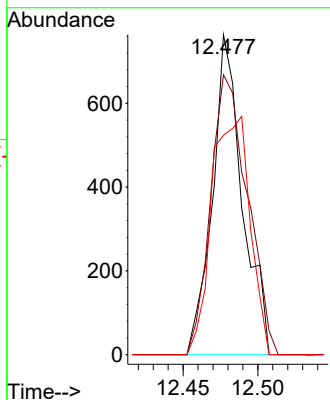
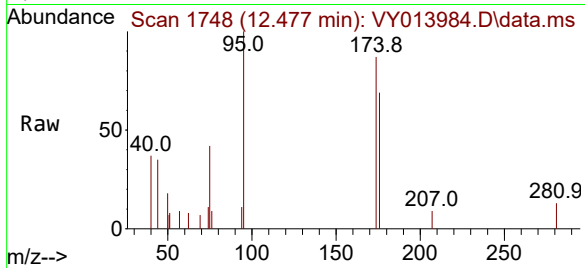




#62
4-Bromofluorobenzene
Concen: 37.164 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

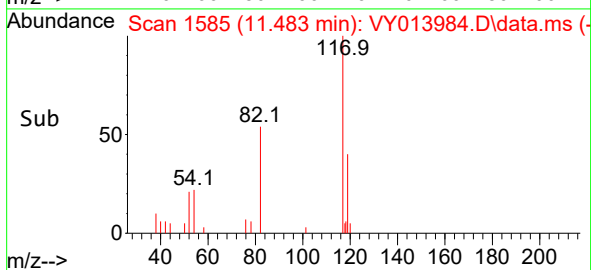
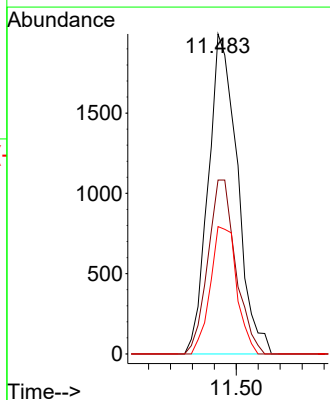
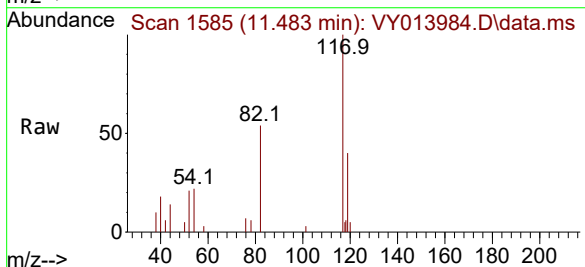
Instrument :
MSVOA_Y
ClientSampleId :
SB04

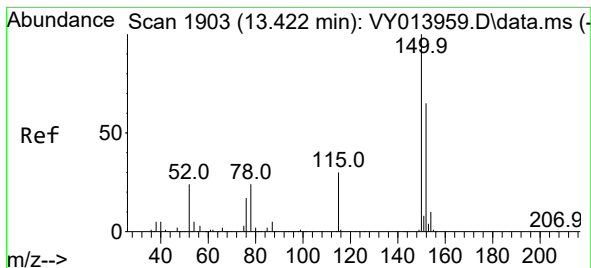
Tgt Ion:	95	Resp:	1059
Ion	Ratio	Lower	Upper
95	100		
174	108.2	0.0	178.2
176	95.8	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 1585
Delta R.T. -0.006 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion:	117	Resp:	3666
Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.4	65.0
119	39.8	26.3	39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY013984.D

Acq: 02 Jun 2023 12:59

Instrument :

MSVOA_Y

ClientSampleId :

SB04

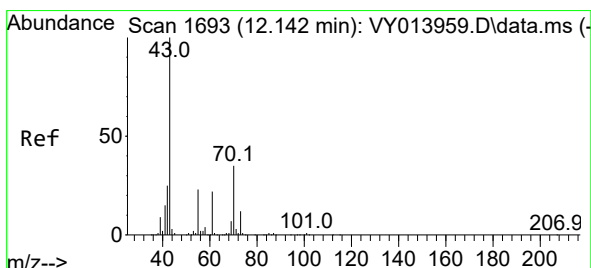
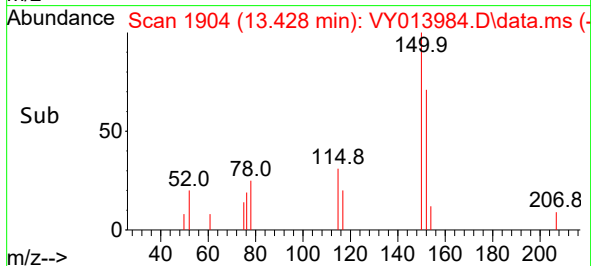
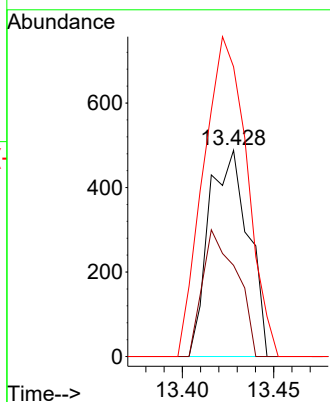
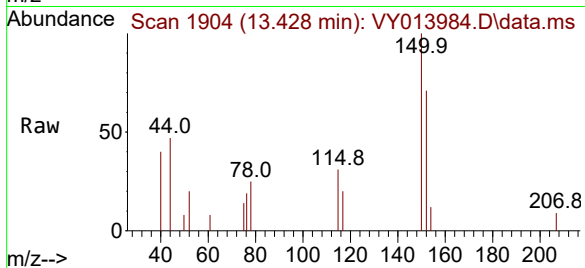
Tgt Ion:152 Resp: 732

Ion Ratio Lower Upper

152 100

115 53.3 28.8 86.5

150 171.6 0.0 348.8



#74

N-ethyl acetate

Concen: 2.536 ug/l

RT: 12.318 min Scan# 1722

Delta R.T. 0.177 min

Lab File: VY013984.D

Acq: 02 Jun 2023 12:59

Tgt Ion: 43 Resp: 47

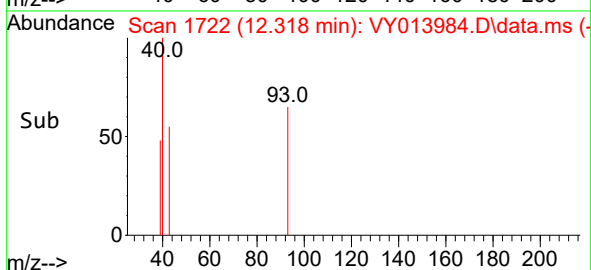
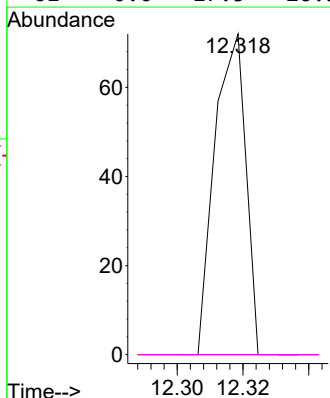
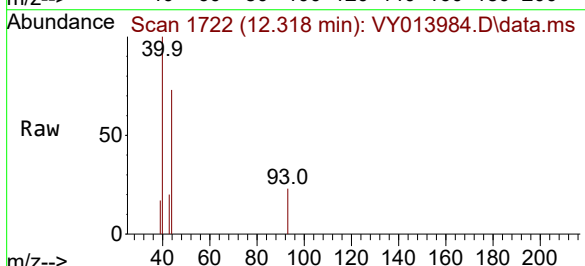
Ion Ratio Lower Upper

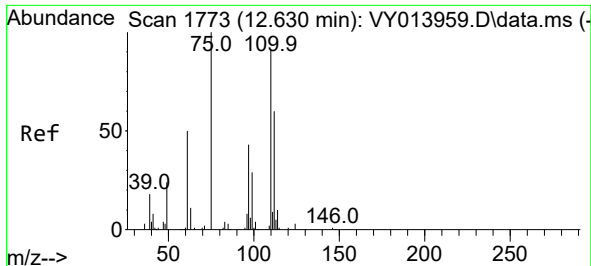
43 100

70 0.0 29.7 44.5#

55 0.0 18.3 27.5#

61 0.0 17.5 26.3#

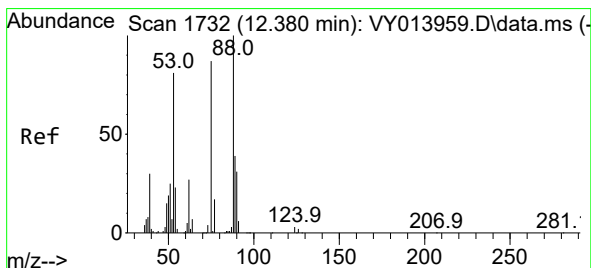
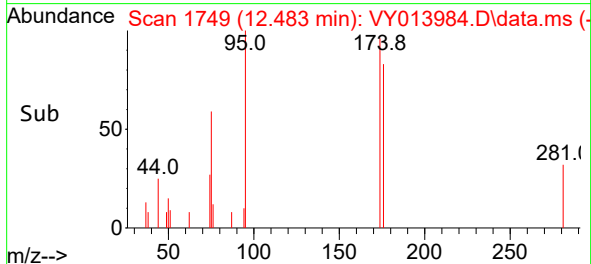
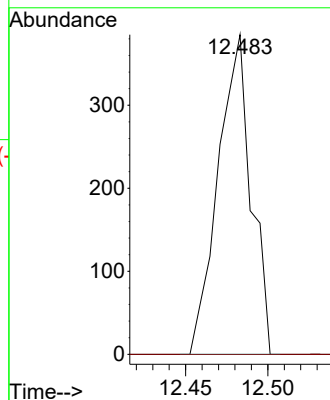
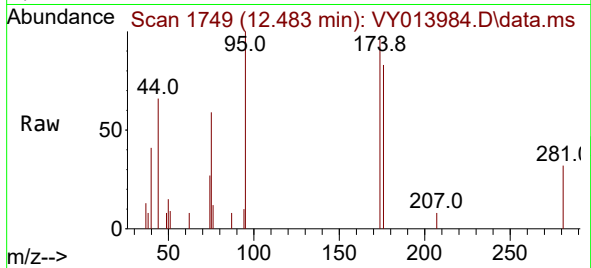




#76
1,2,3-Trichloropropane
Concen: 54.414 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

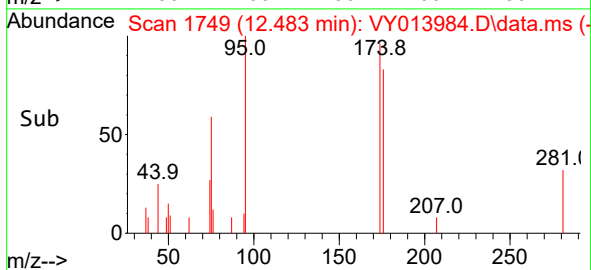
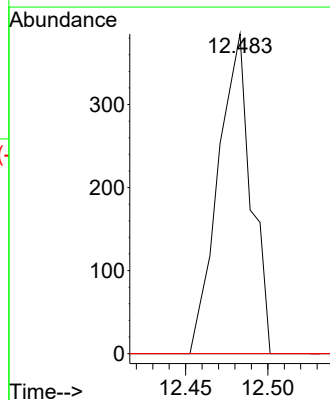
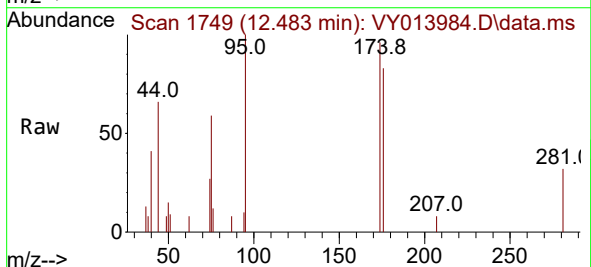
Instrument :
MSVOA_Y
ClientSampleId :
SB04

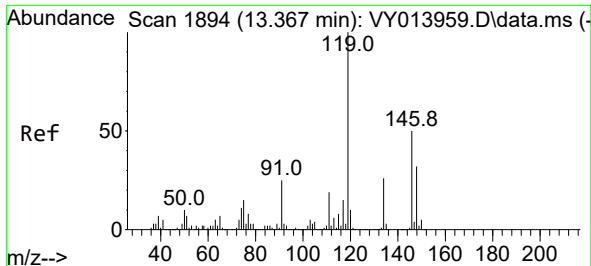
Tgt Ion: 75 Resp: 536
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 115.439 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion: 75 Resp: 536
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#

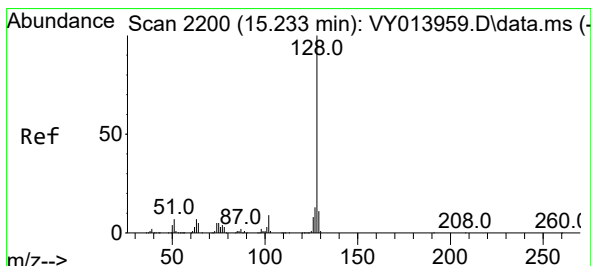
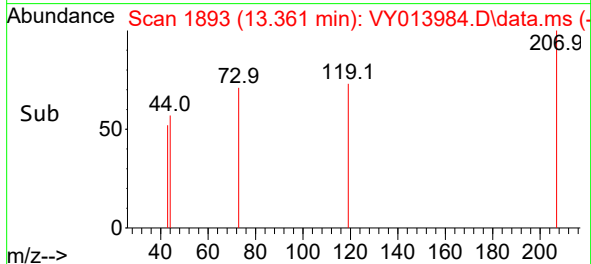
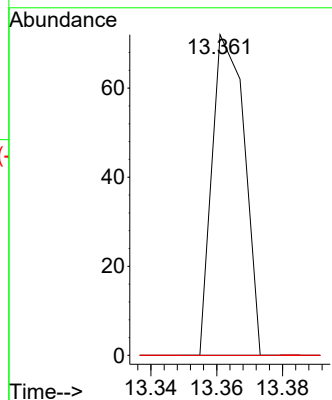
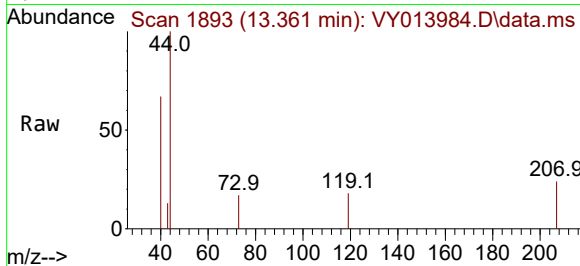




#86
p-Isopropyltoluene
Concen: 1.151 ug/l
RT: 13.361 min Scan# 119
Delta R.T. -0.006 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Instrument :
MSVOA_Y
ClientSampleId :
SB04

Tgt Ion:119 Resp: 49
Ion Ratio Lower Upper
119 100
134 0.0 13.3 39.8#
91 0.0 12.4 37.4#



#95
Naphthalene
Concen: 4.475 ug/l
RT: 15.251 min Scan# 2203
Delta R.T. 0.018 min
Lab File: VY013984.D
Acq: 02 Jun 2023 12:59

Tgt Ion:128 Resp: 22
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 0.0 8.6 13.0#

