

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040323\
 Data File : VX034937.D
 Acq On : 03 Apr 2023 17:06
 Operator : JC/MD
 Sample : 02161-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-5

Quant Time: Apr 03 21:40:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032923W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 01 01:50:18 2023
 Response via : Initial Calibration

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

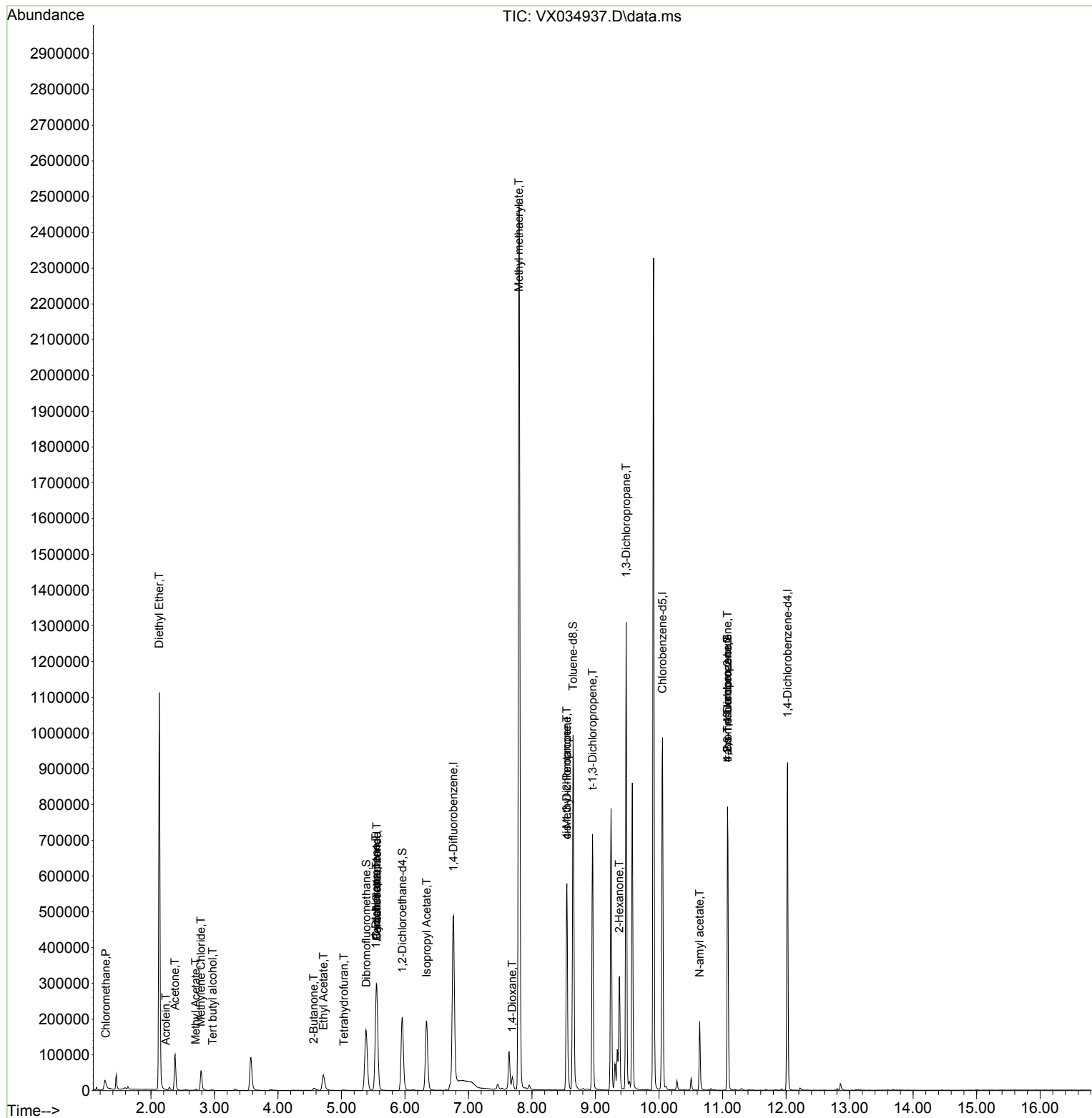
Internal Standards						
1) Pentafluorobenzene	5.556	168	265904	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	462338	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	421083	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	186546	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	201687	49.596	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.200%
35) Dibromofluoromethane	5.391	113	147782	48.326	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.660%
50) Toluene-d8	8.647	98	560853	49.689	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.380%
62) 4-Bromofluorobenzene	11.079	95	212529	48.657	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.320%
Target Compounds						
					Qvalue	
3) Chloromethane	1.288	50	1296	0.390	ug/l #	67
8) Diethyl Ether	2.130	74	352638	189.244	ug/l	94
11) Tert butyl alcohol	2.971	59	2253	3.158	ug/l #	93
13) Acrolein	2.233	56	764	1.040	ug/l #	83
16) Acetone	2.380	43	109461	66.260	ug/l	95
18) Methyl Acetate	2.703	43	4218	0.719	ug/l	99
20) Methylene Chloride	2.788	84	24813	7.612	ug/l	97
25) 2-Butanone	4.562	43	12406	5.163	ug/l	97
29) Tetrahydrofuran	5.038	42	1528	1.015	ug/l #	87
31) Cyclohexane	5.550	56	6555	1.324	ug/l #	14
36) 1,1-Dichloropropene	5.544	75	22706	5.012	ug/l #	51
37) Ethyl Acetate	4.714	43	78779	16.630	ug/l	98
38) Carbon Tetrachloride	5.556	117	29769	6.969	ug/l #	15
43) Isopropyl Acetate	6.342	43	271776	34.292	ug/l	99
48) Methyl methacrylate	7.793	41	230565	59.238	ug/l #	46
49) 1,4-Dioxane	7.690	88	52	0.648	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	214970	45.831	ug/l #	50
53) t-1,3-Dichloropropene	8.951	75	1458	0.315	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	89037	17.559	ug/l #	58
57) 1,3-Dichloropropane	9.482	76	10265	1.806	ug/l #	42
59) 2-Hexanone	9.372	43	250589	70.634	ug/l #	26
74) N-amyl acetate	10.640	43	53368	8.687	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	112982	30.058	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	112982	90.082	ug/l #	8

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

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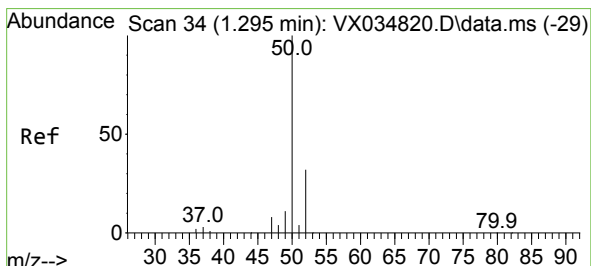
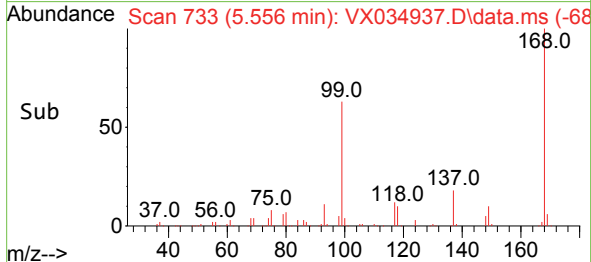
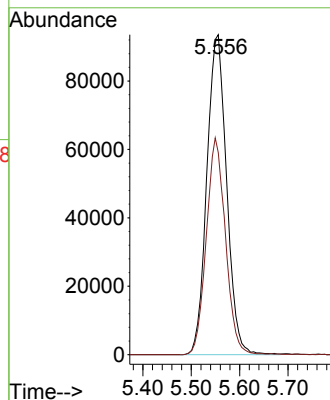
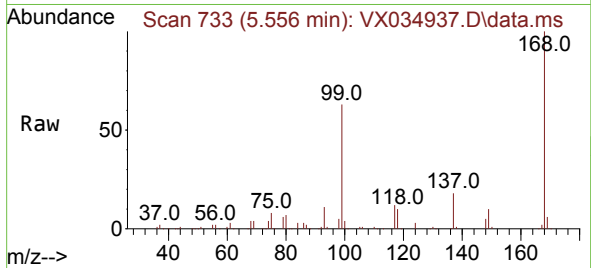




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

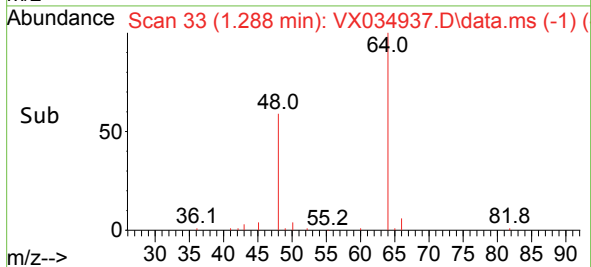
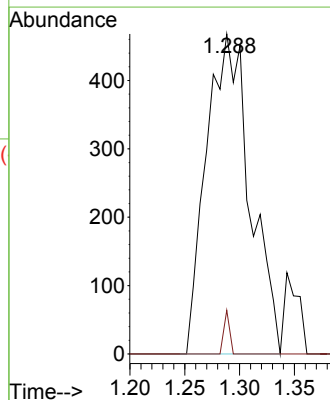
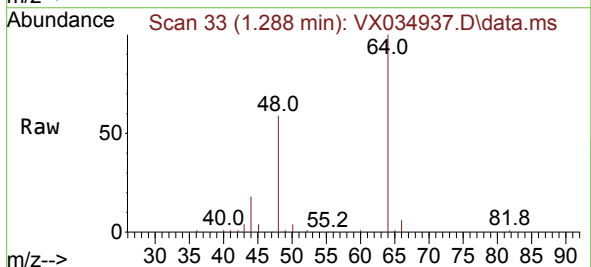
Instrument :
MSVOA_X
ClientSampleId :
WC-5

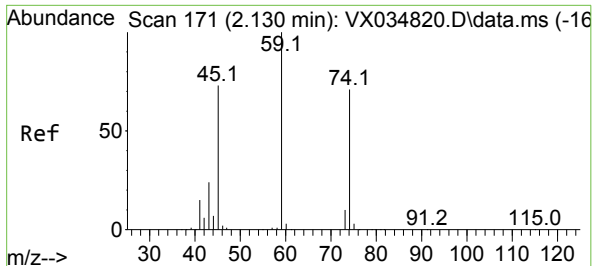
Tgt Ion:168 Resp: 265904
Ion Ratio Lower Upper
168 100
99 63.1 45.7 68.5



#3
Chloromethane
Concen: 0.390 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 50 Resp: 1296
Ion Ratio Lower Upper
50 100
52 13.7 25.9 38.9#

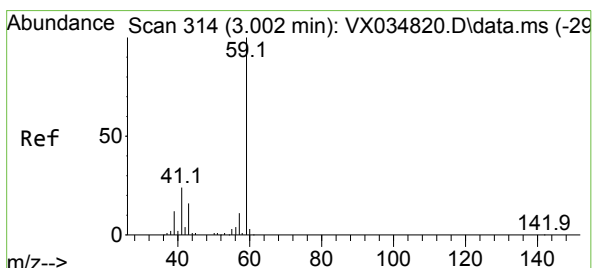
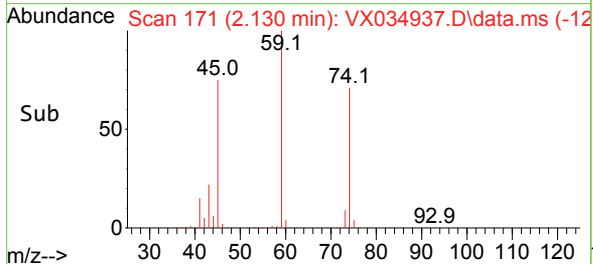
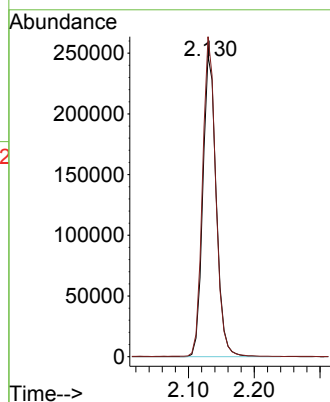
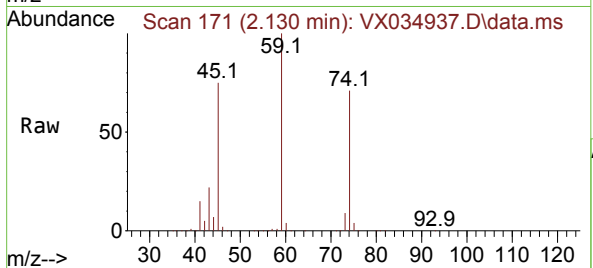




#8
Diethyl Ether
Concen: 189.244 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

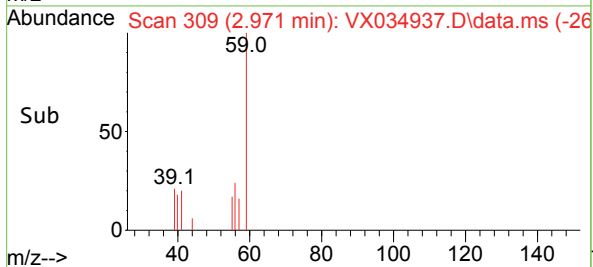
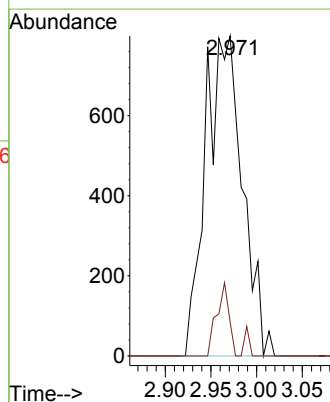
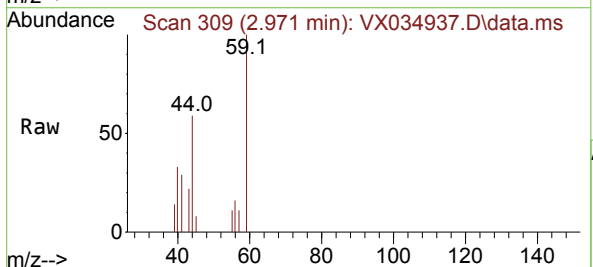
Instrument :
MSVOA_X
ClientSampleId :
WC-5

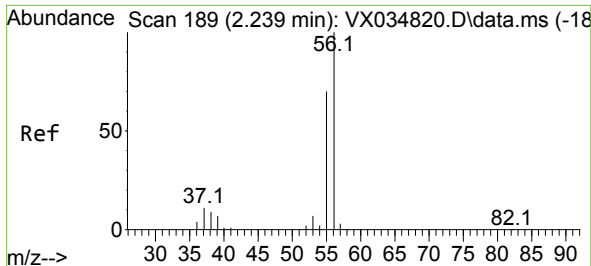
Tgt Ion: 74 Resp: 352638
Ion Ratio Lower Upper
74 100
45 105.0 49.8 149.3



#11
Tert butyl alcohol
Concen: 3.158 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.031 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 59 Resp: 2253
Ion Ratio Lower Upper
59 100
57 7.6 8.1 12.1#





#13

Acrolein

Concen: 1.040 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Instrument :

MSVOA_X

ClientSampleId :

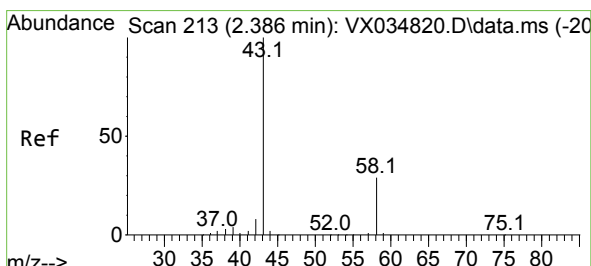
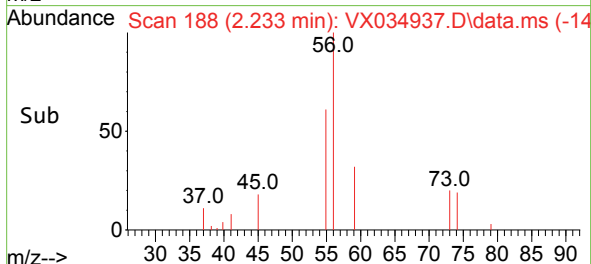
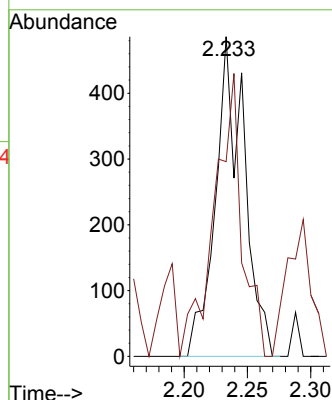
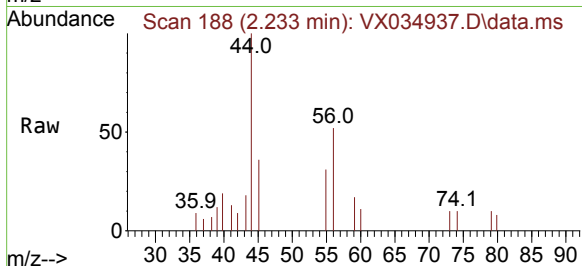
WC-5

Tgt Ion: 56 Resp: 764

Ion Ratio Lower Upper

56 100

55 85.1 56.6 85.0#



#16

Acetone

Concen: 66.260 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX034937.D

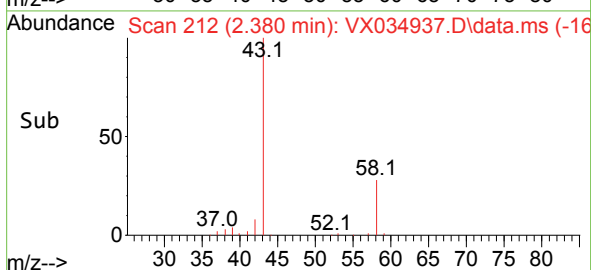
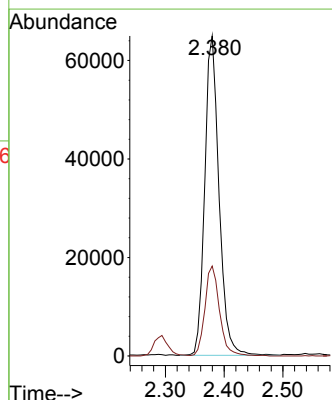
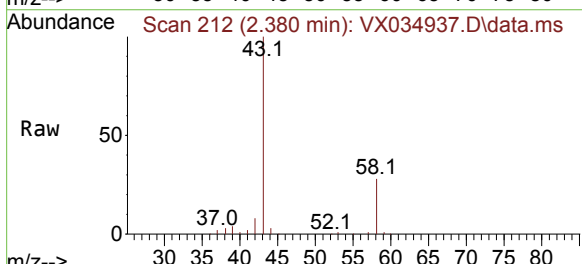
Acq: 03 Apr 2023 17:06

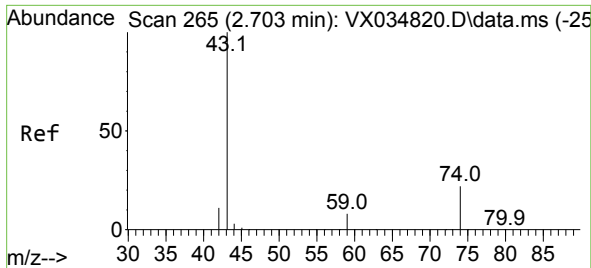
Tgt Ion: 43 Resp: 109461

Ion Ratio Lower Upper

43 100

58 28.2 24.7 37.1





#18

Methyl Acetate

Concen: 0.719 ug/l

RT: 2.703 min Scan# 2

Delta R.T. -0.000 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Instrument :

MSVOA_X

ClientSampleId :

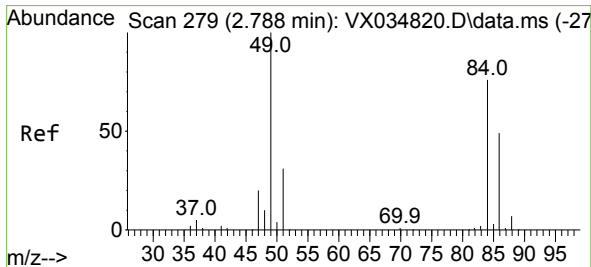
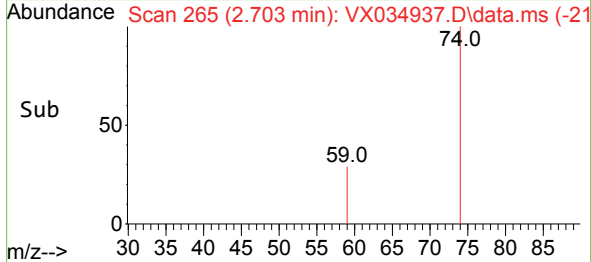
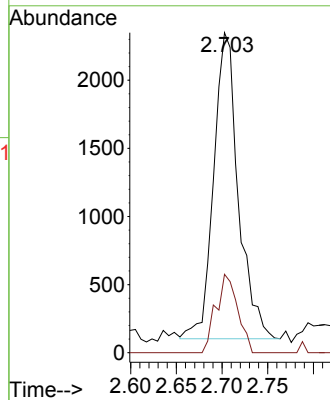
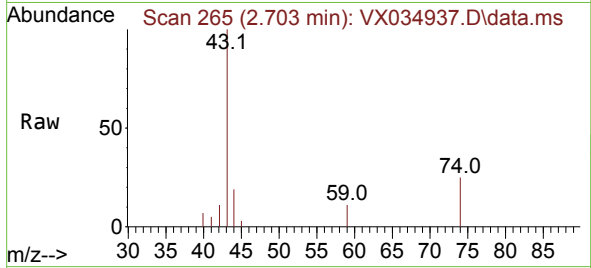
WC-5

Tgt Ion: 43 Resp: 4218

Ion Ratio Lower Upper

43 100

74 22.4 18.3 27.5



#20

Methylene Chloride

Concen: 7.612 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Tgt Ion: 84 Resp: 24813

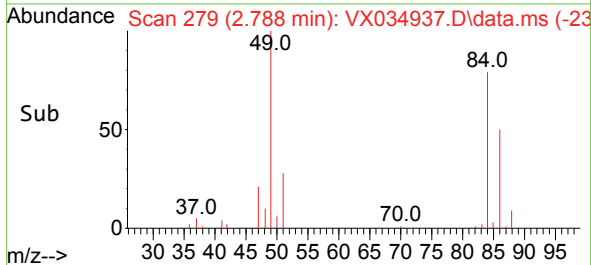
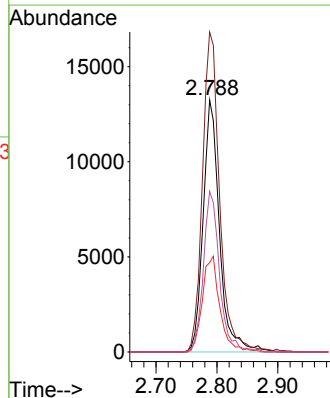
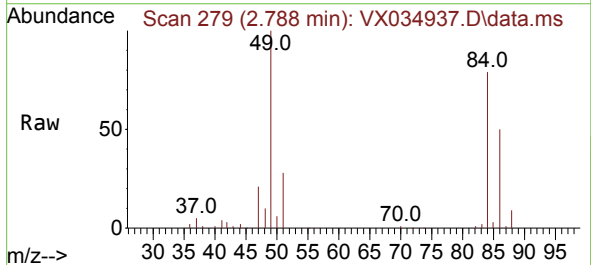
Ion Ratio Lower Upper

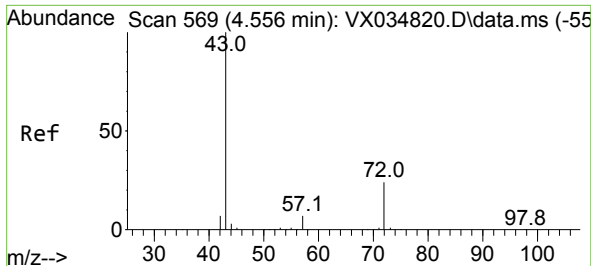
84 100

49 127.0 103.8 155.8

51 35.4 31.8 47.8

86 63.7 51.4 77.2

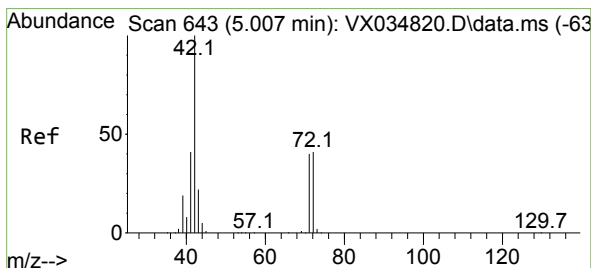
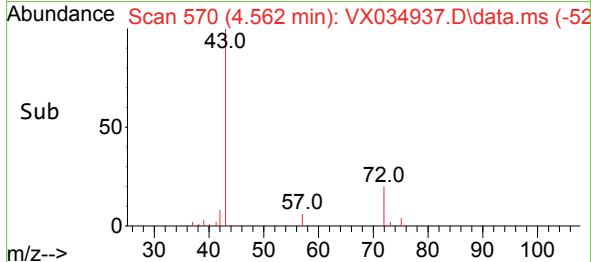
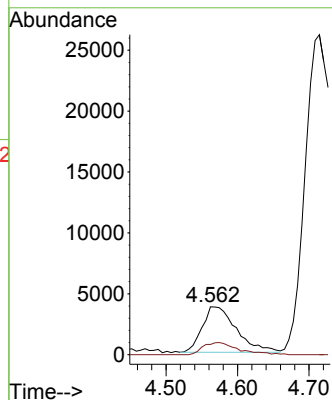
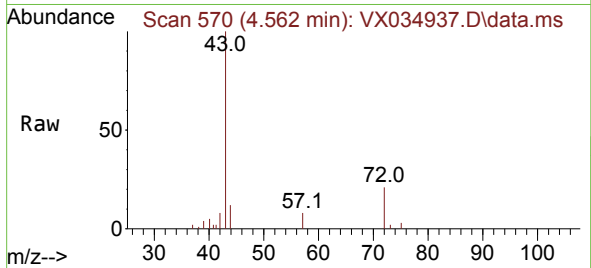




#25
2-Butanone
Concen: 5.163 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

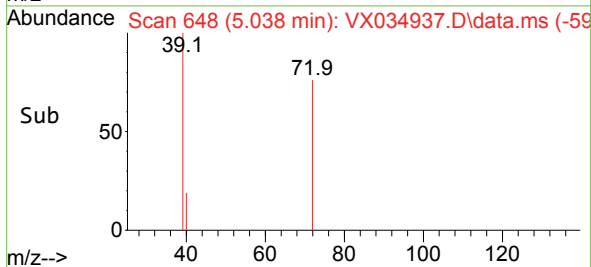
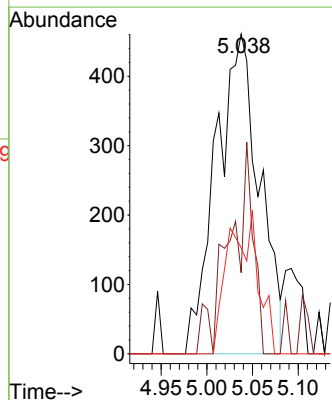
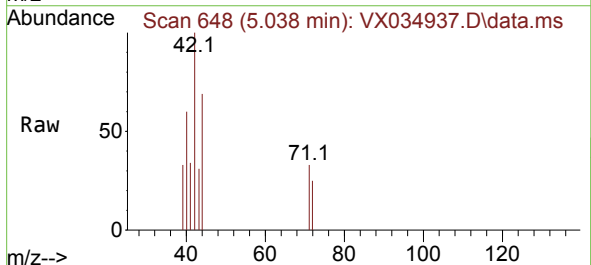
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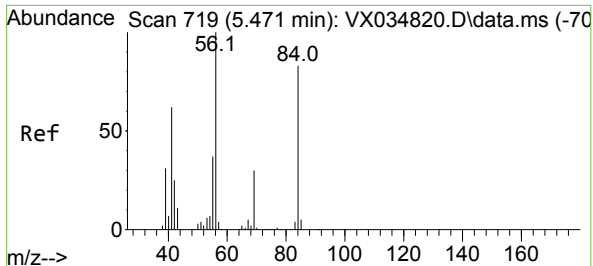
Tgt Ion: 43 Resp: 12406
Ion Ratio Lower Upper
43 100
72 22.6 19.3 28.9



#29
Tetrahydrofuran
Concen: 1.015 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.030 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 42 Resp: 1528
Ion Ratio Lower Upper
42 100
72 36.3 34.5 51.7
71 30.5 32.1 48.1#

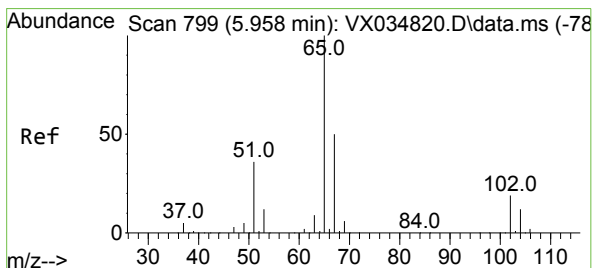
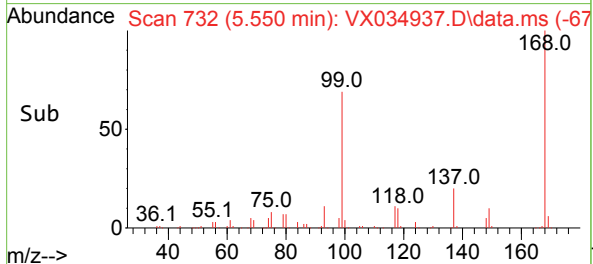
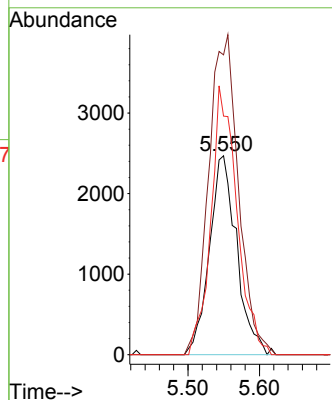
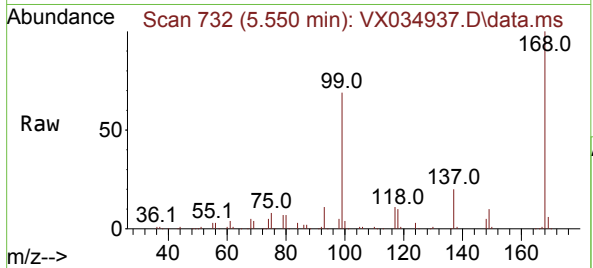




#31
Cyclohexane
Concen: 1.324 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

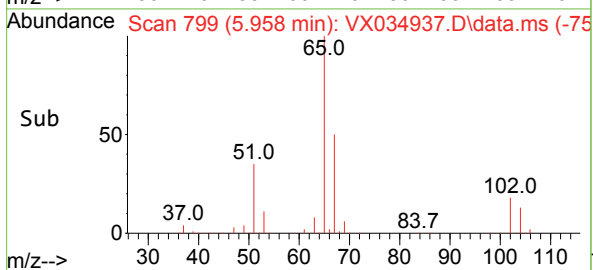
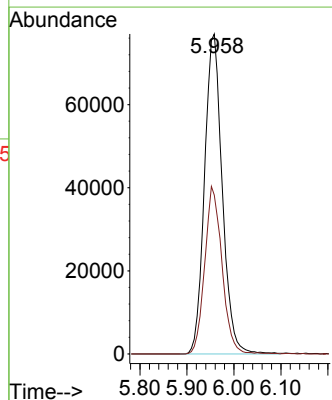
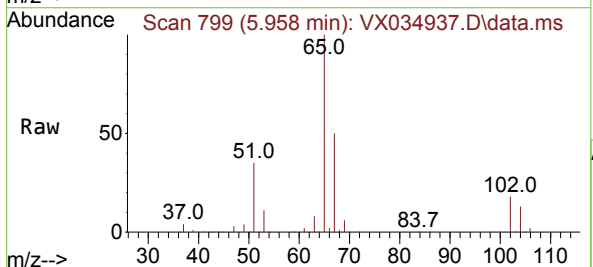
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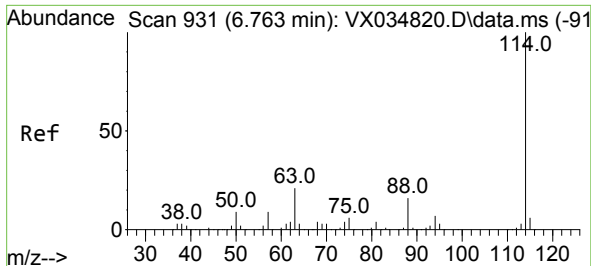
Tgt Ion: 56 Resp: 6555
Ion Ratio Lower Upper
56 100
69 150.7 23.7 35.5#
84 119.9 68.5 102.7#



#33
1,2-Dichloroethane-d4
Concen: 49.596 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 65 Resp: 201687
Ion Ratio Lower Upper
65 100
67 51.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Instrument :

MSVOA_X

ClientSampleId :

WC-5

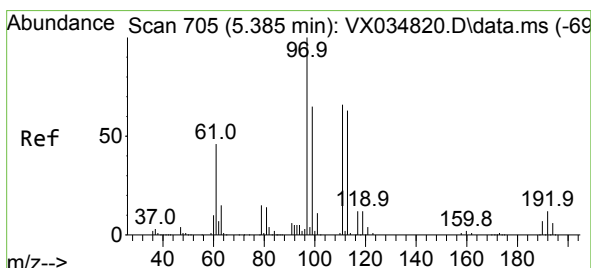
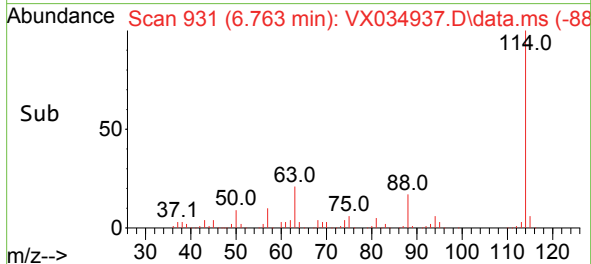
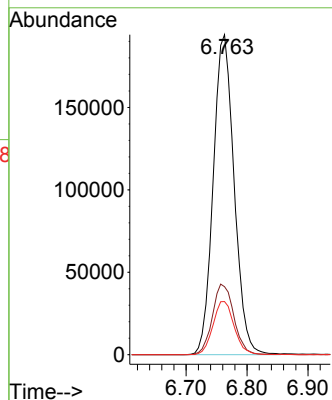
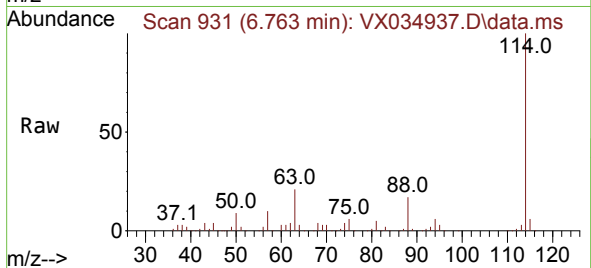
Tgt Ion:114 Resp: 462338

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.2

88 16.6 0.0 33.2



#35

Dibromofluoromethane

Concen: 48.326 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.006 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

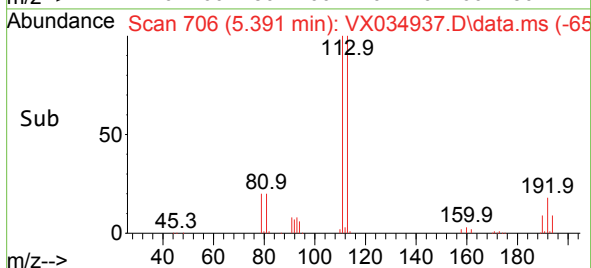
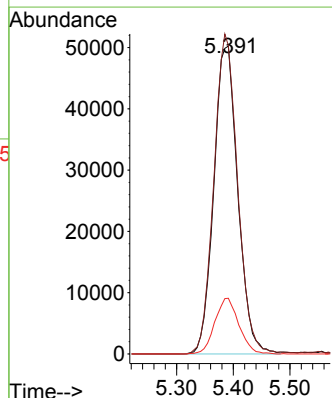
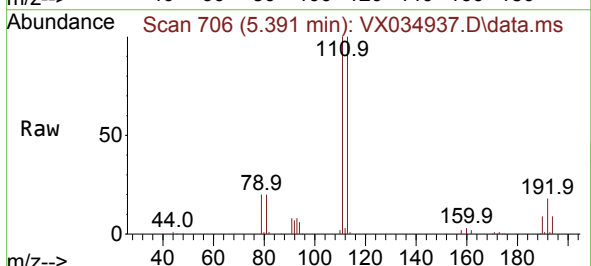
Tgt Ion:113 Resp: 147782

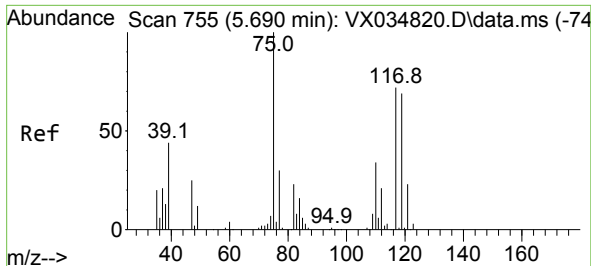
Ion Ratio Lower Upper

113 100

111 102.8 83.7 125.5

192 18.1 15.4 23.2

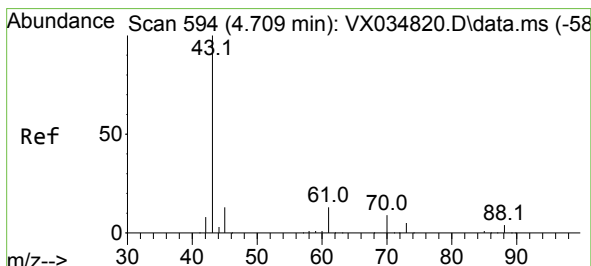
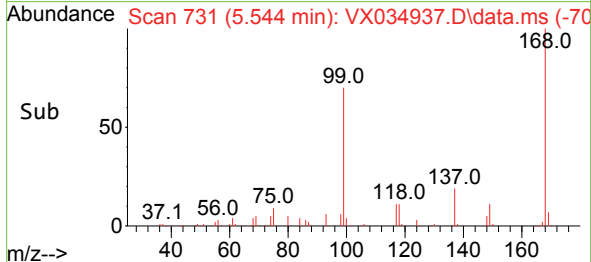
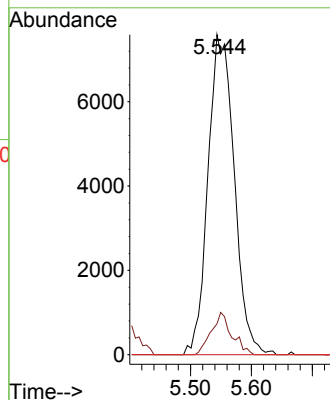
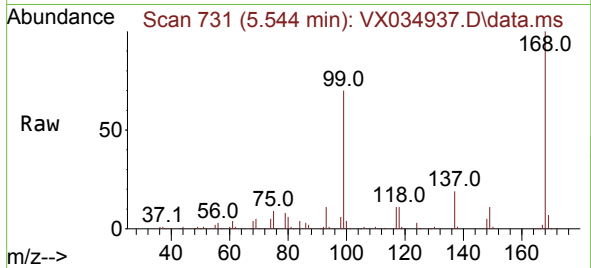




#36
1,1-Dichloropropene
Concen: 5.012 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

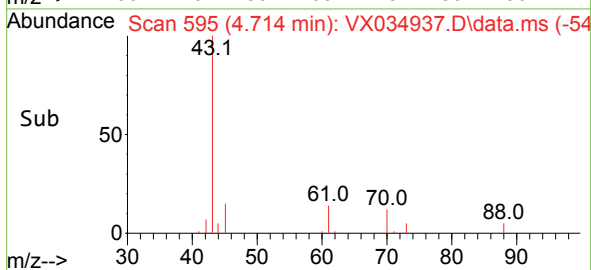
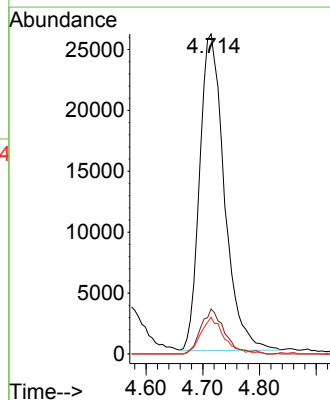
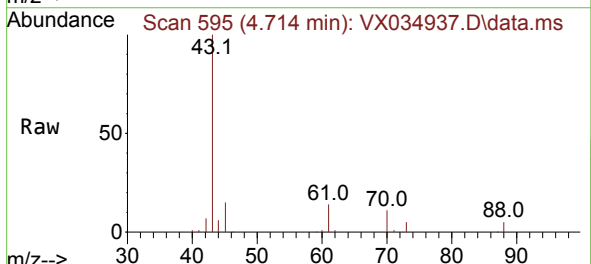
Instrument :
MSVOA_X
ClientSampleId :
WC-5

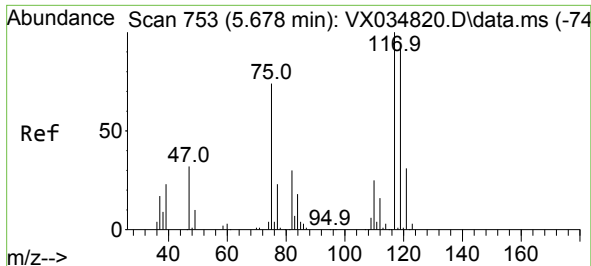
Tgt Ion: 75 Resp: 22706
Ion Ratio Lower Upper
75 100
110 10.3 17.5 52.5#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 16.630 ug/l
RT: 4.714 min Scan# 595
Delta R.T. 0.006 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

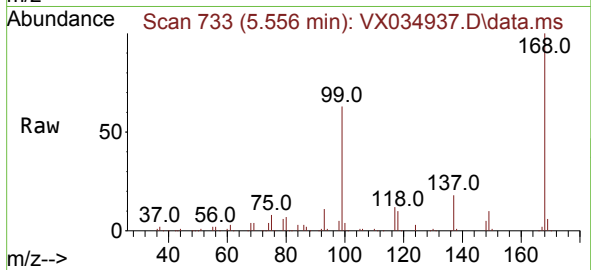
Tgt Ion: 43 Resp: 78779
Ion Ratio Lower Upper
43 100
61 13.6 10.2 15.4
70 10.9 8.2 12.4



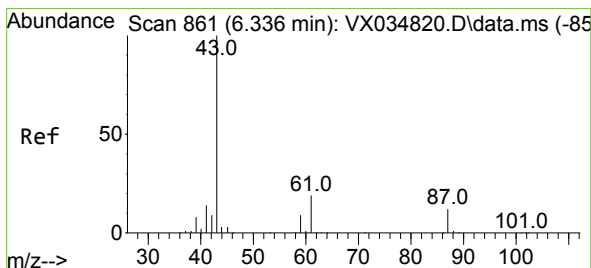
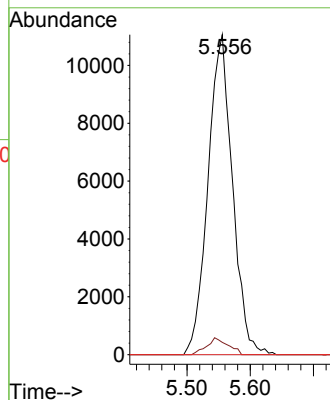
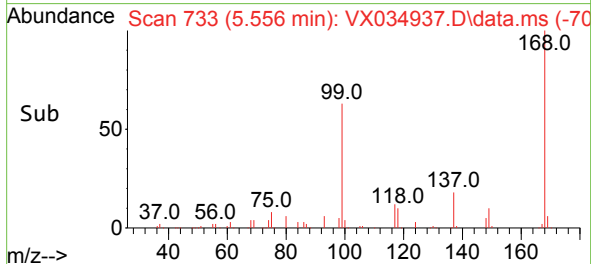


#38
Carbon Tetrachloride
Concen: 6.969 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

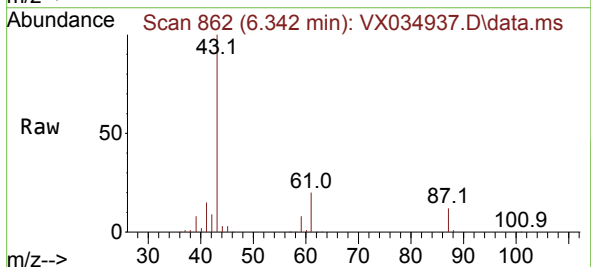
Instrument :
MSVOA_X
ClientSampleId :
WC-5



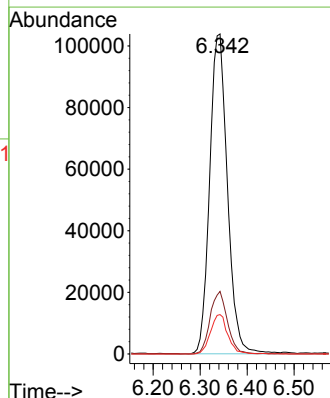
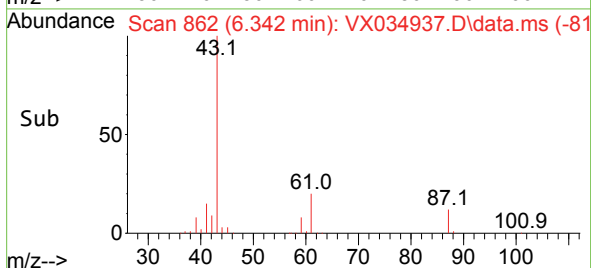
Tgt Ion:117 Resp: 29769
Ion Ratio Lower Upper
117 100
119 3.8 76.6 114.8#
121 0.0 23.8 35.6#

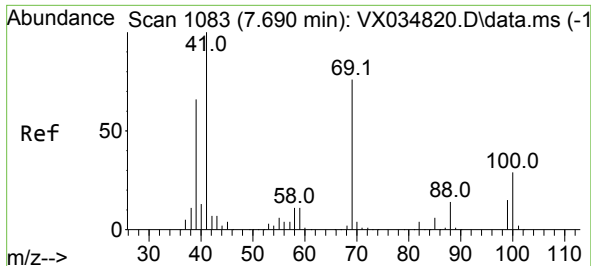


#43
Isopropyl Acetate
Concen: 34.292 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06



Tgt Ion: 43 Resp: 271776
Ion Ratio Lower Upper
43 100
61 19.2 15.2 22.8
87 11.9 9.8 14.8

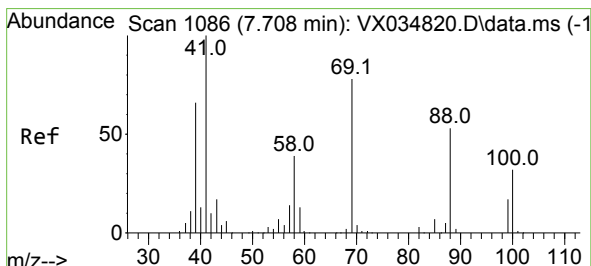
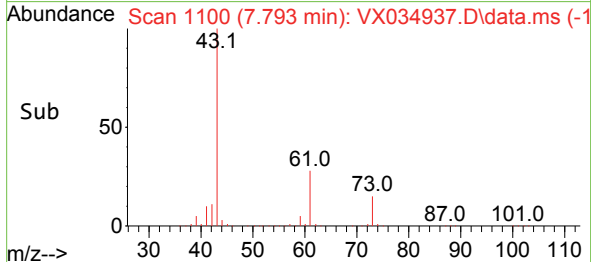
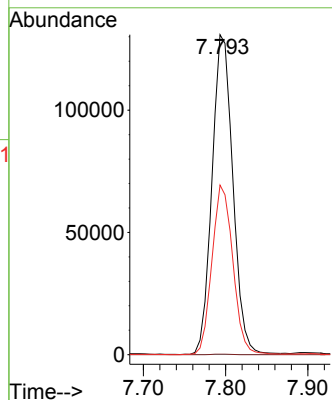
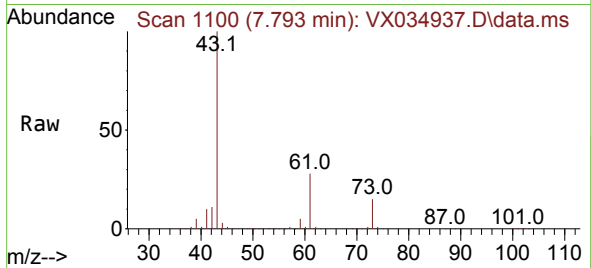




#48
Methyl methacrylate
Concen: 59.238 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.103 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

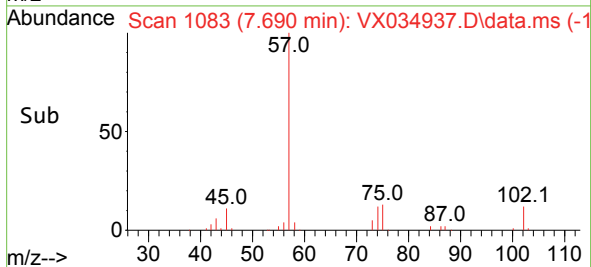
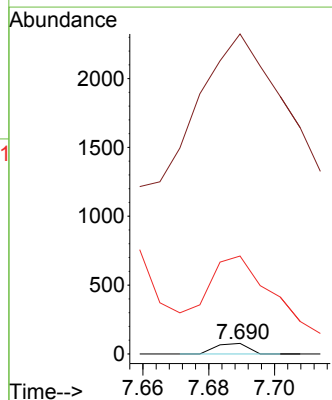
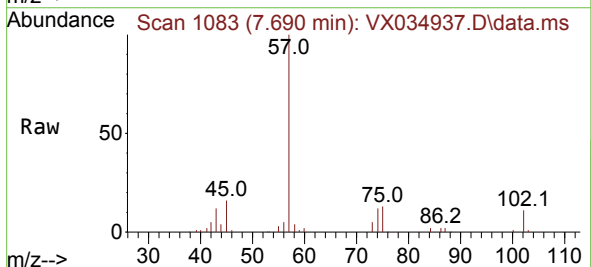
Instrument :
MSVOA_X
ClientSampleId :
WC-5

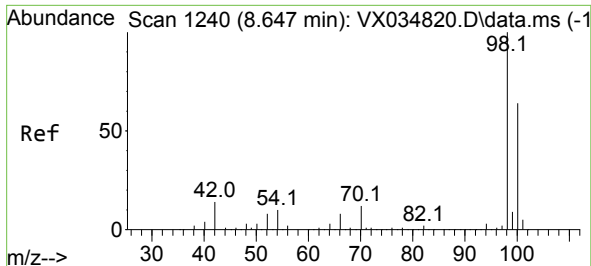
Tgt Ion: 41 Resp: 230565
Ion Ratio Lower Upper
41 100
69 0.1 62.2 93.4#
39 53.3 47.7 71.5



#49
1,4-Dioxane
Concen: 0.648 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.018 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 88 Resp: 52
Ion Ratio Lower Upper
88 100
43 0.0 27.7 41.5#
58 2253.8 56.8 85.2#

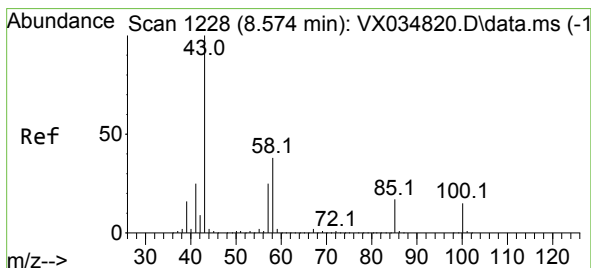
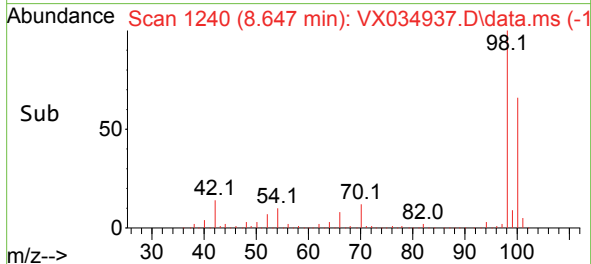
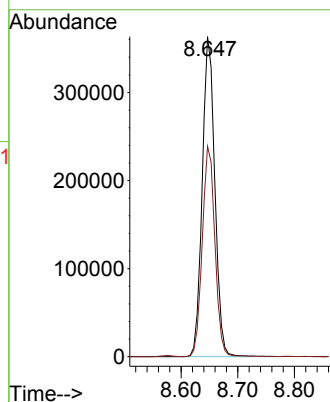
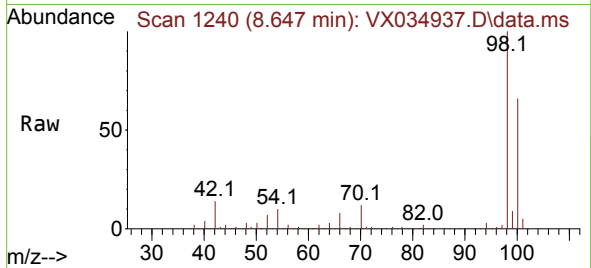




#50
Toluene-d8
Concen: 49.689 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

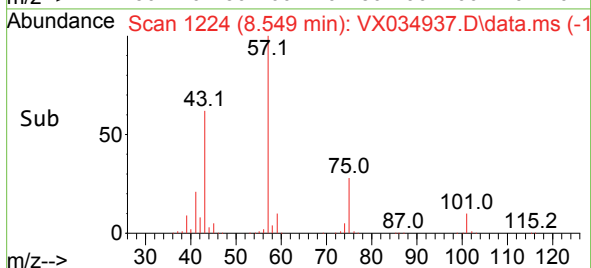
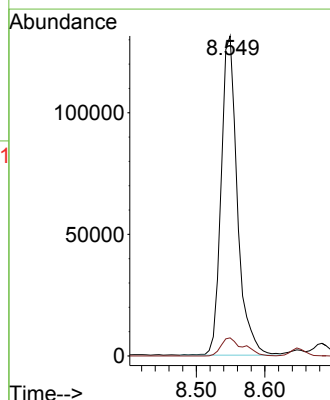
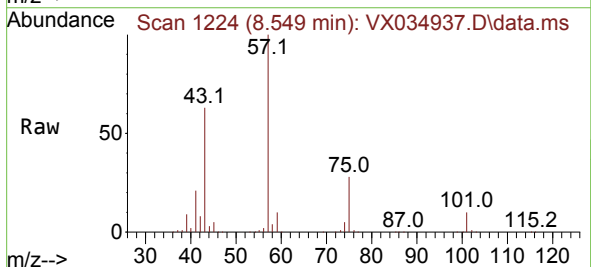
Instrument :
MSVOA_X
ClientSampleId :
WC-5

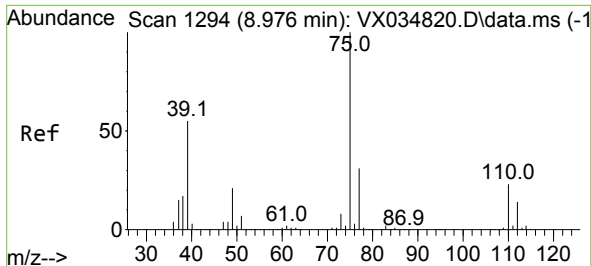
Tgt Ion: 98 Resp: 560853
Ion Ratio Lower Upper
98 100
100 66.0 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 45.831 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.025 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 43 Resp: 214970
Ion Ratio Lower Upper
43 100
58 7.8 30.6 46.0#





#53

t-1,3-Dichloropropene

Concen: 0.315 ug/l

RT: 8.951 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Instrument :

MSVOA_X

ClientSampleId :

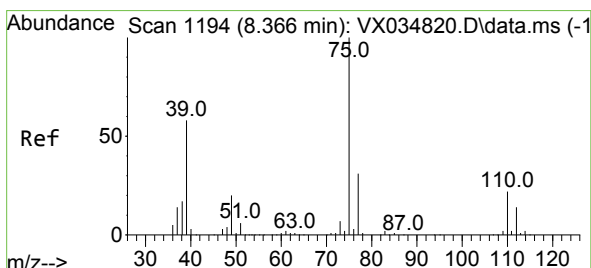
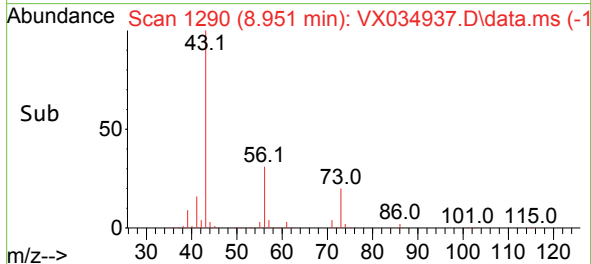
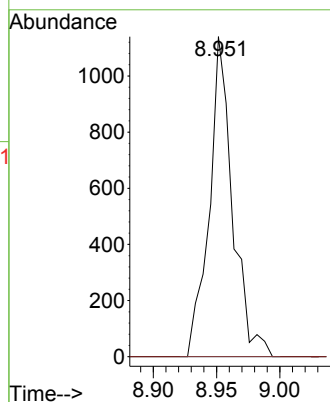
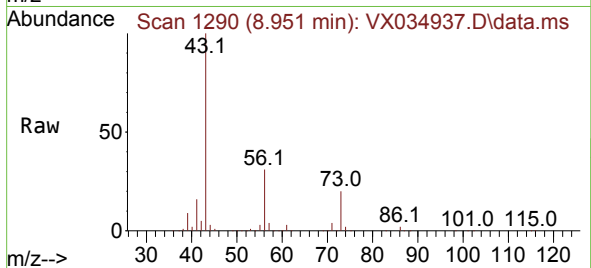
WC-5

Tgt Ion: 75 Resp: 1458

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 17.559 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

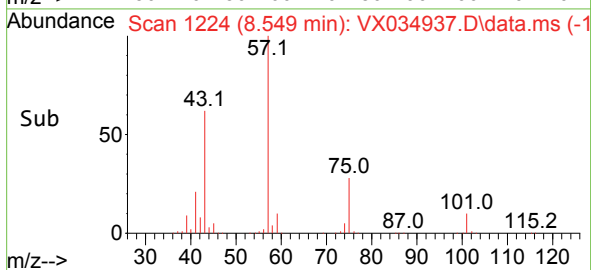
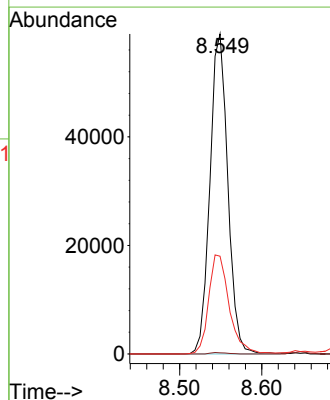
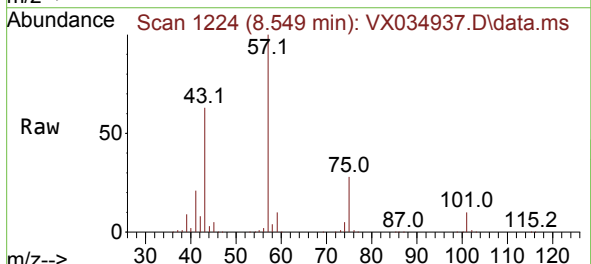
Tgt Ion: 75 Resp: 89037

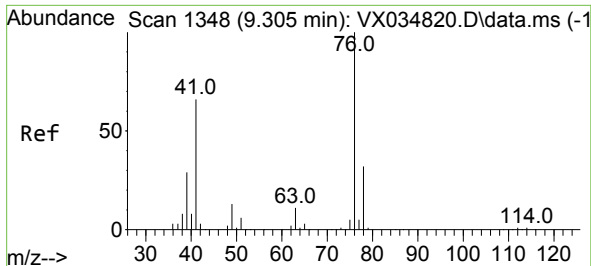
Ion Ratio Lower Upper

75 100

77 0.3 25.0 37.4#

39 30.5 44.6 66.8#





#57

1,3-Dichloropropane

Concen: 1.806 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Instrument :

MSVOA_X

ClientSampleId :

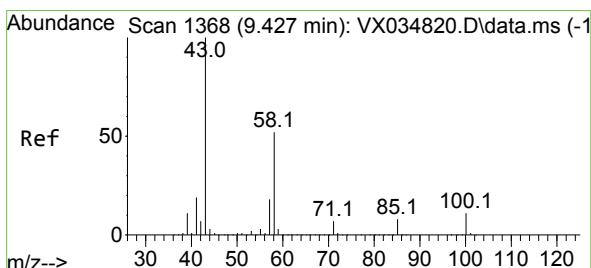
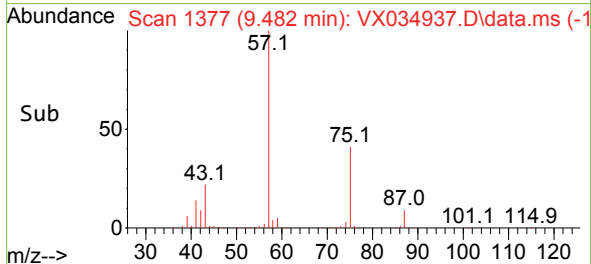
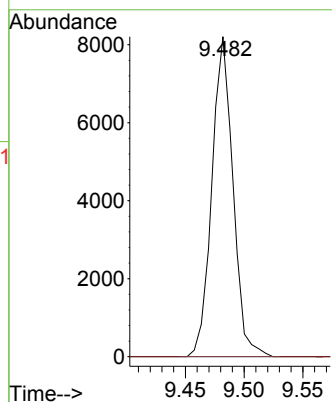
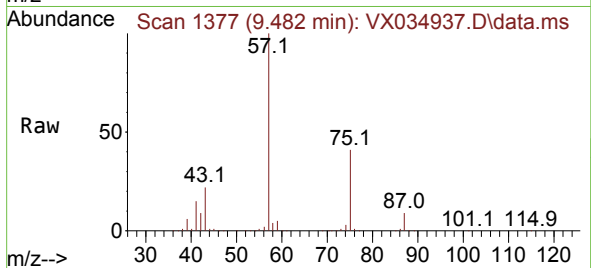
WC-5

Tgt Ion: 76 Resp: 10265

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 70.634 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX034937.D

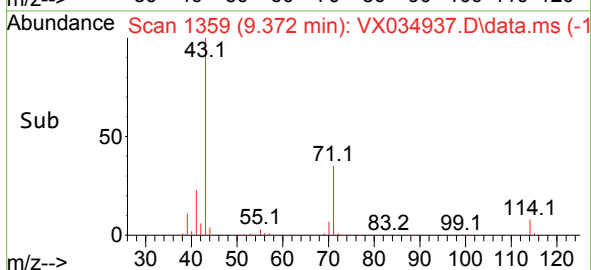
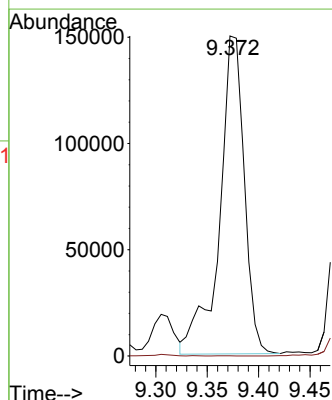
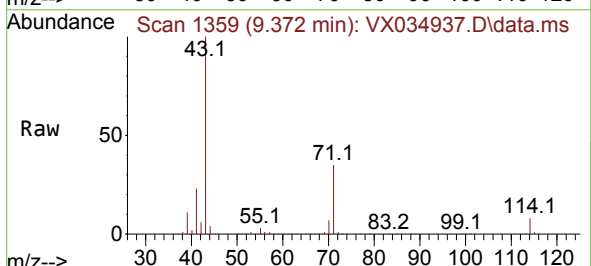
Acq: 03 Apr 2023 17:06

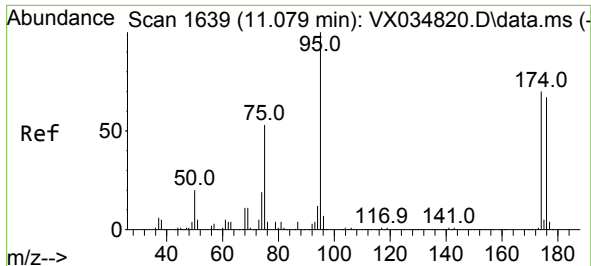
Tgt Ion: 43 Resp: 250589

Ion Ratio Lower Upper

43 100

58 0.0 26.3 78.9#

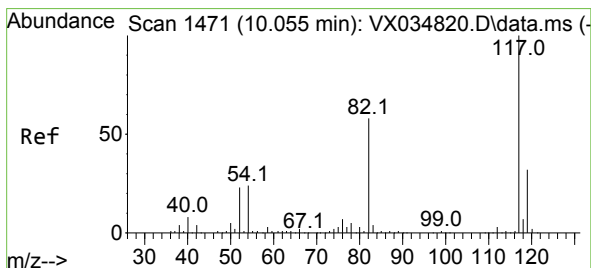
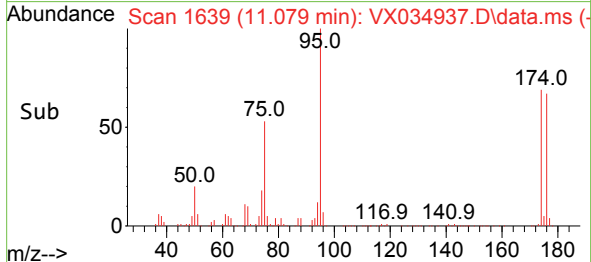
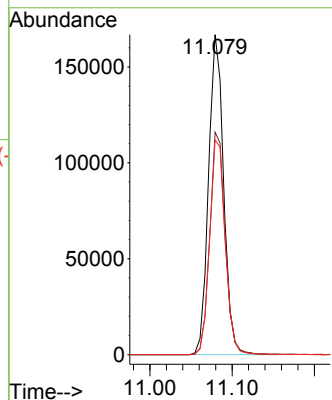
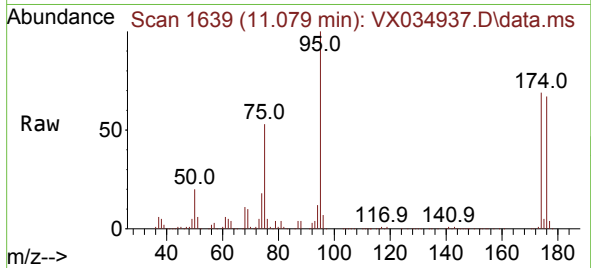




#62
4-Bromofluorobenzene
Concen: 48.657 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

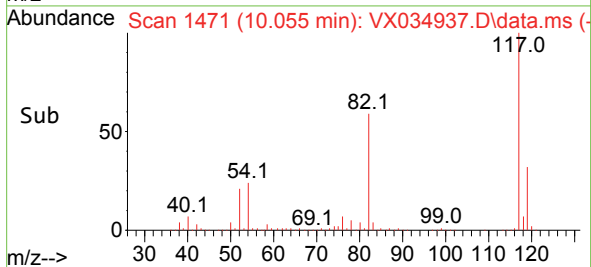
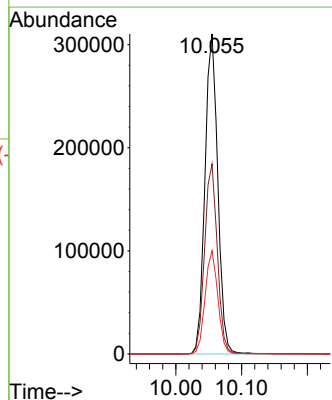
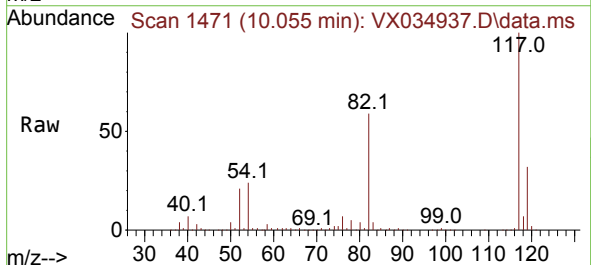
Instrument :
MSVOA_X
ClientSampleId :
WC-5

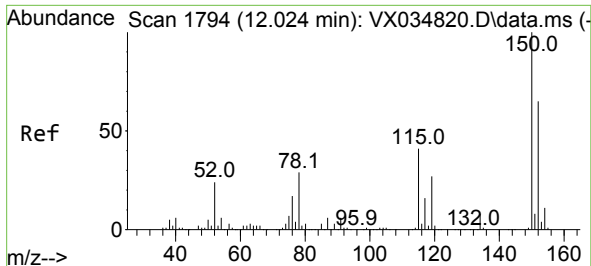
Tgt Ion: 95 Resp: 212529
Ion Ratio Lower Upper
95 100
174 70.7 0.0 147.4
176 68.9 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 117 Resp: 421083
Ion Ratio Lower Upper
117 100
82 59.4 45.0 67.4
119 32.2 26.0 39.0

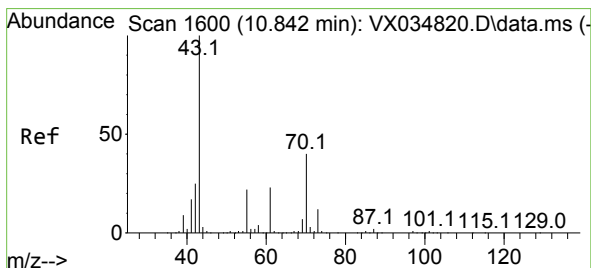
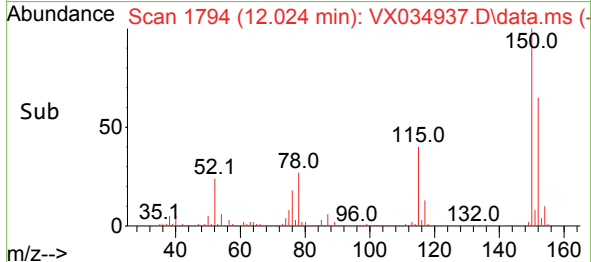
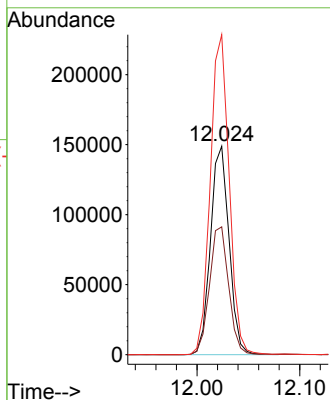
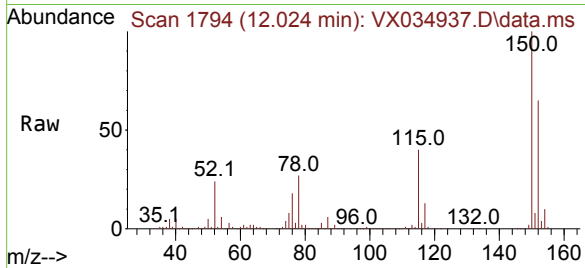




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

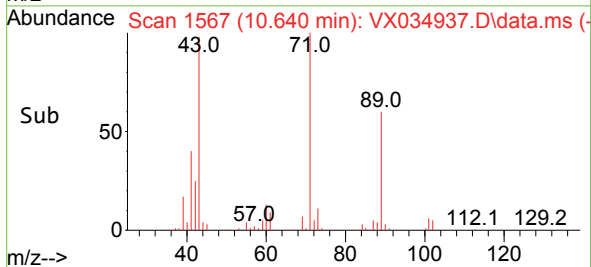
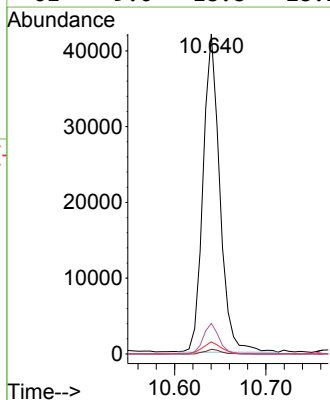
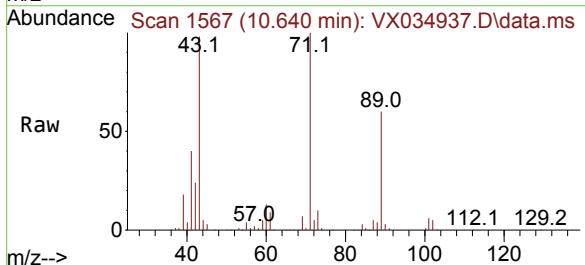
Instrument :
MSVOA_X
ClientSampleId :
WC-5

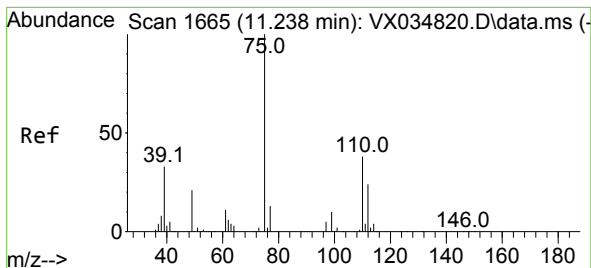
Tgt Ion:152 Resp: 186546
Ion Ratio Lower Upper
152 100
115 63.5 45.0 135.0
150 156.3 0.0 352.4



#74
N-ethyl acetate
Concen: 8.687 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.202 min
Lab File: VX034937.D
Acq: 03 Apr 2023 17:06

Tgt Ion: 43 Resp: 53368
Ion Ratio Lower Upper
43 100
70 1.4 32.1 48.1#
55 4.4 18.3 27.5#
61 9.0 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 30.058 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Instrument :

MSVOA_X

ClientSampleId :

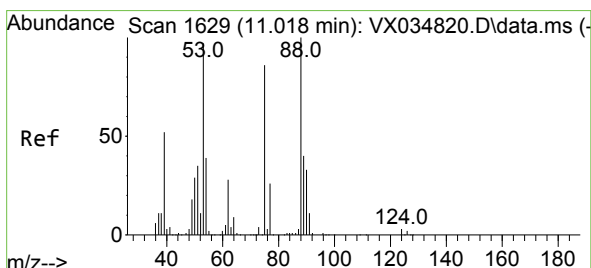
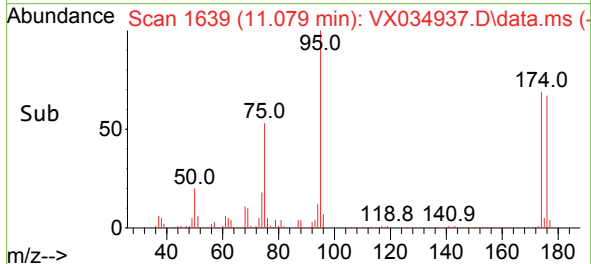
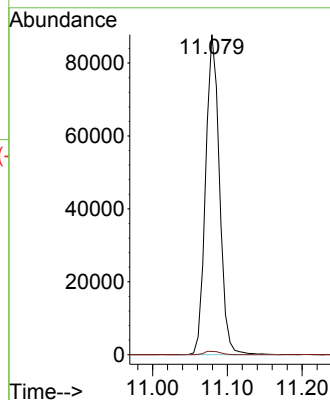
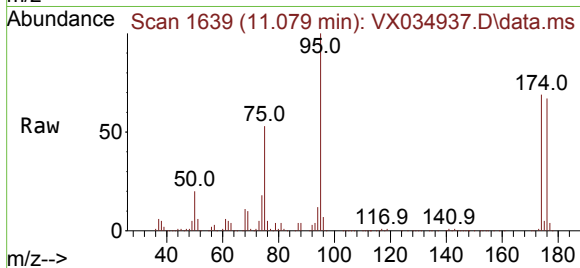
WC-5

Tgt Ion: 75 Resp: 112982

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.082 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX034937.D

Acq: 03 Apr 2023 17:06

Tgt Ion: 75 Resp: 112982

Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.0 36.9 55.3#

