

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080423\
 Data File : VX036805.D
 Acq On : 04 Aug 2023 13:07
 Operator : JC/MD
 Sample : ZHC#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ZHC#03

Quant Time: Aug 05 00:10:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072123W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 21 12:14:12 2023
 Response via : Initial Calibration

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

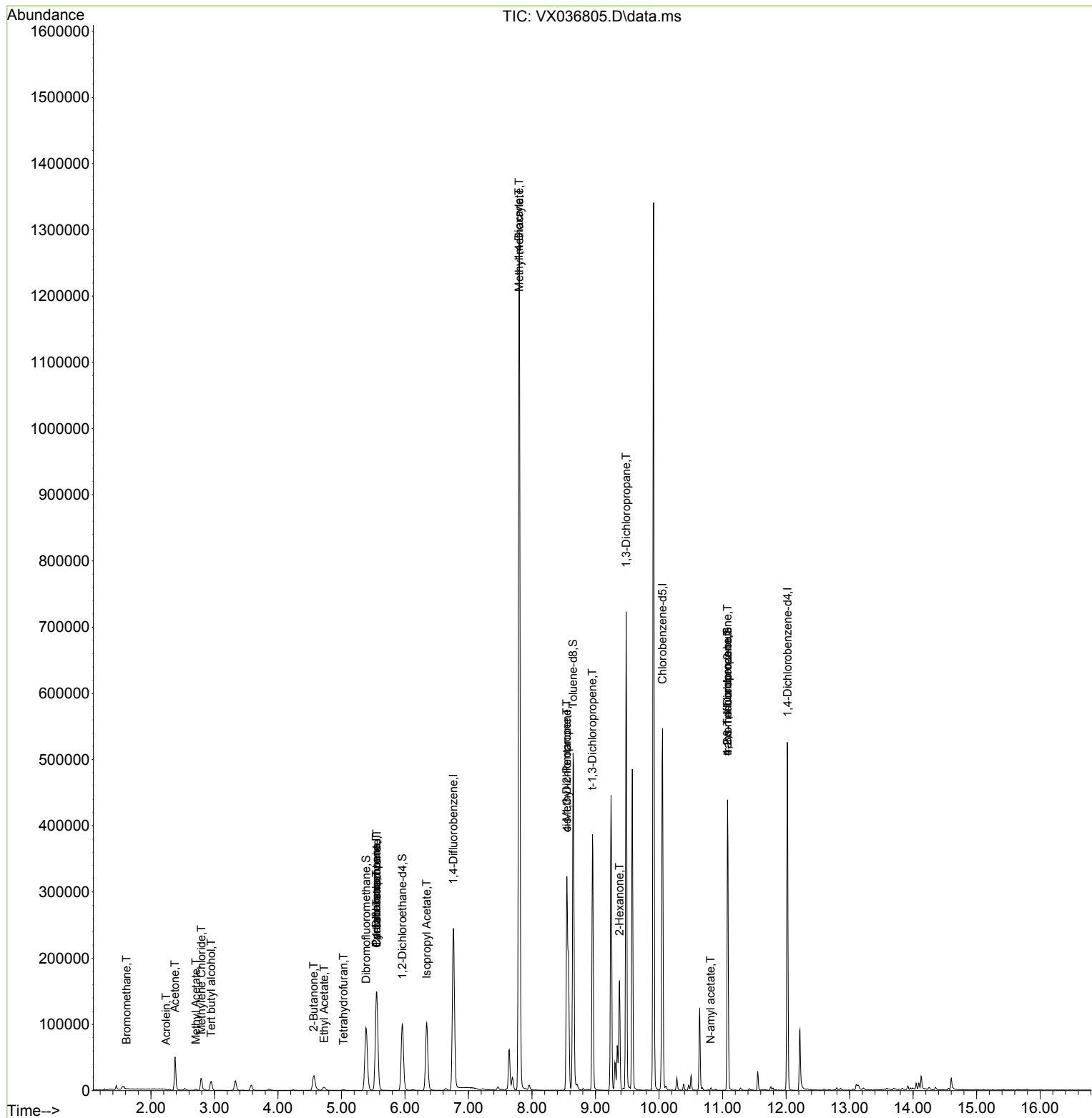
Internal Standards						
1) Pentafluorobenzene	5.550	168	138653	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	251402	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	237289	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	108030	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	97560	47.554	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	95.100%		
35) Dibromofluoromethane	5.385	113	82476	47.729	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.460%		
50) Toluene-d8	8.647	98	305347	49.829	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.660%		
62) 4-Bromofluorobenzene	11.079	95	116233	50.275	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.560%		
Target Compounds						Qvalue
5) Bromomethane	1.618	94	213	0.210	ug/l #	79
11) Tert butyl alcohol	2.947	59	8654	17.818	ug/l #	82
13) Acrolein	2.239	56	190	0.685	ug/l #	1
16) Acetone	2.380	43	54228	63.698	ug/l	92
18) Methyl Acetate	2.709	43	2122	0.593	ug/l #	89
20) Methylene Chloride	2.794	84	9867	5.211	ug/l #	88
25) 2-Butanone	4.562	43	29904	21.650	ug/l #	88
29) Tetrahydrofuran	5.032	42	1008	1.132	ug/l #	81
31) Cyclohexane	5.550	56	3036	1.069	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	11198	4.348	ug/l #	51
37) Ethyl Acetate	4.727	43	8986	3.083	ug/l	96
38) Carbon Tetrachloride	5.556	117	14945	5.458	ug/l #	15
43) Isopropyl Acetate	6.342	43	141068	28.112	ug/l	96
48) Methyl methacrylate	7.799	41	111441	47.753	ug/l #	48
49) 1,4-Dioxane	7.793	88	179	3.797	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	113802	40.981	ug/l #	37
53) t-1,3-Dichloropropene	8.952	75	1013	0.312	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	52388	15.283	ug/l #	53
57) 1,3-Dichloropropane	9.482	76	6380	1.941	ug/l #	42
59) 2-Hexanone	9.378	43	121757	59.078	ug/l #	26
74) N-amyl acetate	10.811	43	893	0.214	ug/l #	54
76) 1,2,3-Trichloropropane	11.079	75	60066	23.639	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	60066	53.579	ug/l #	5

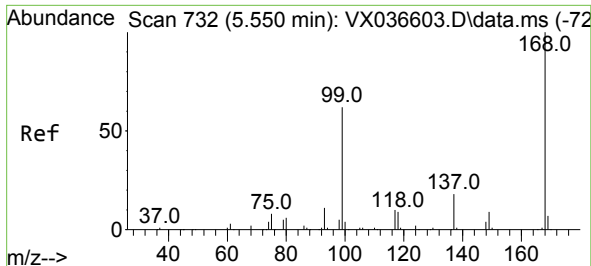
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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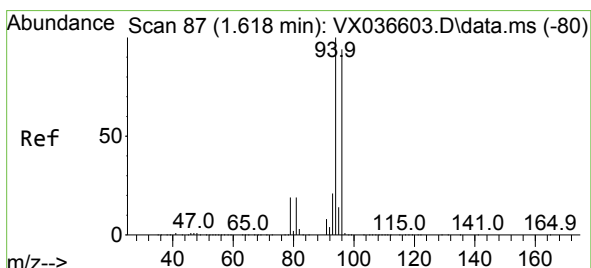
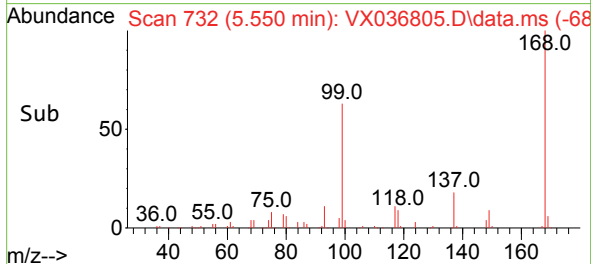
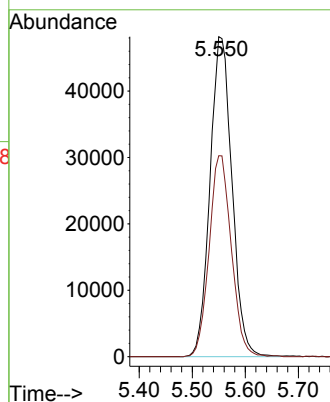
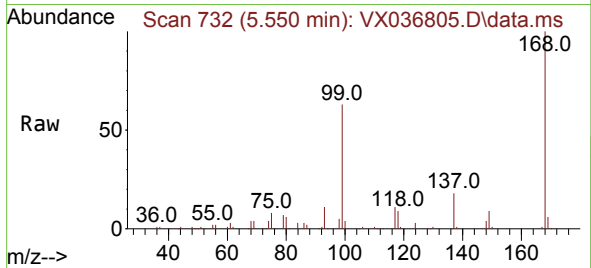




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

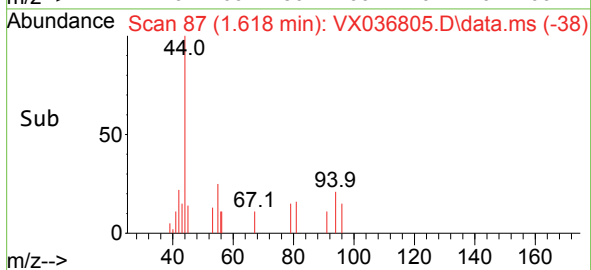
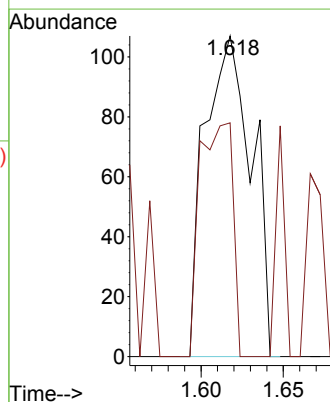
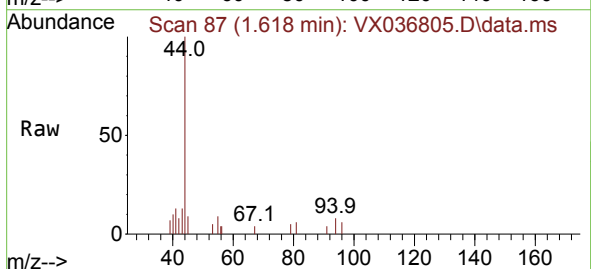
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

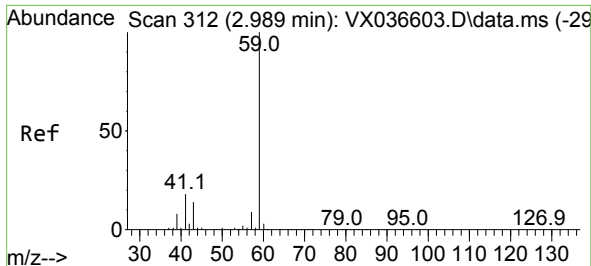
Tgt Ion:168 Resp: 138653
Ion Ratio Lower Upper
168 100
99 62.8 56.6 85.0



#5
Bromomethane
Concen: 0.210 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion: 94 Resp: 213
Ion Ratio Lower Upper
94 100
96 72.9 74.6 111.8#





#11

Tert butyl alcohol

Concen: 17.818 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.043 min

Lab File: VX036805.D

Acq: 04 Aug 2023 13:07

Instrument :

MSVOA_X

ClientSampleId :

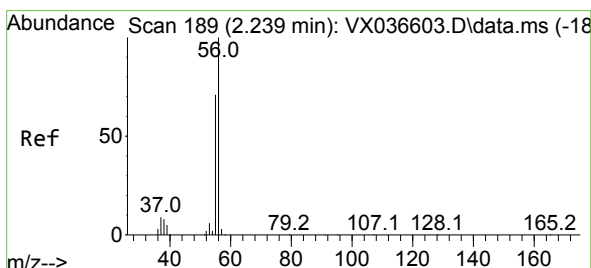
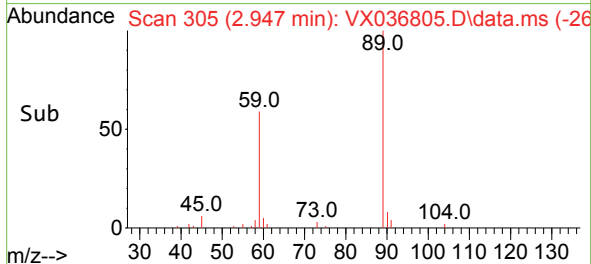
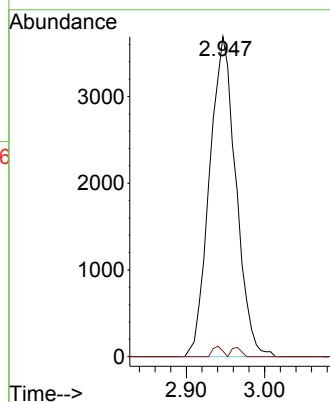
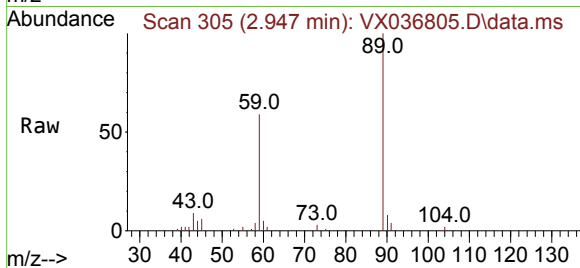
ZHC#03

Tgt Ion: 59 Resp: 8654

Ion Ratio Lower Upper

59 100

57 1.2 6.0 9.0#



#13

Acrolein

Concen: 0.685 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX036805.D

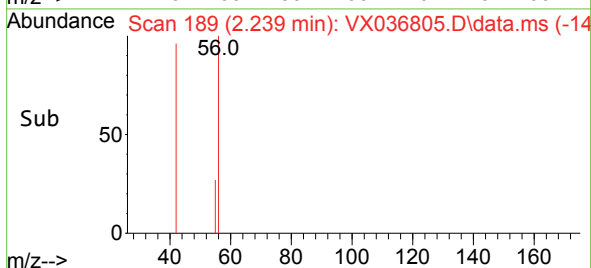
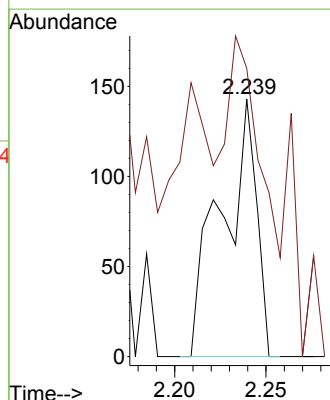
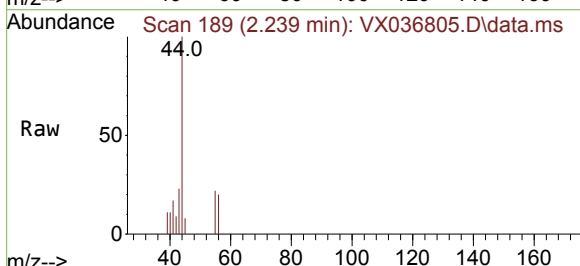
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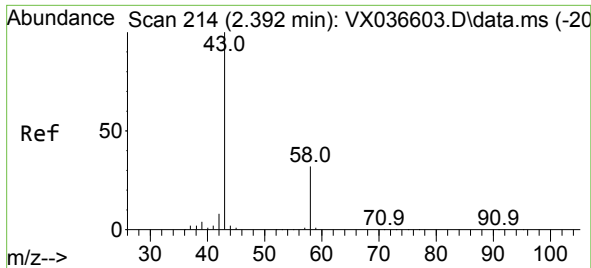
Tgt Ion: 56 Resp: 190

Ion Ratio Lower Upper

56 100

55 173.7 57.1 85.7#

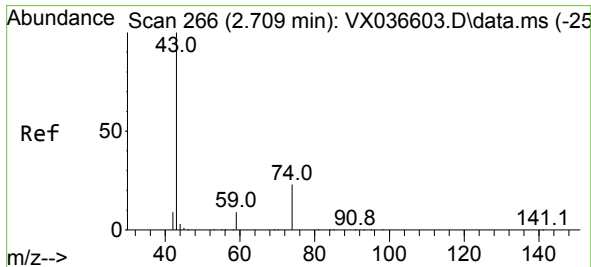
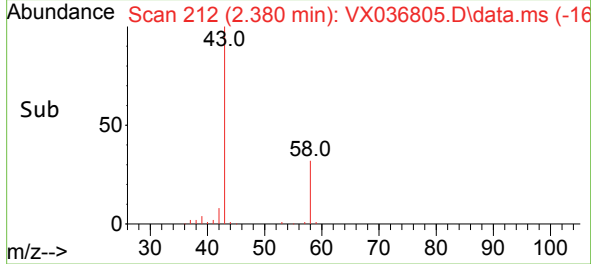
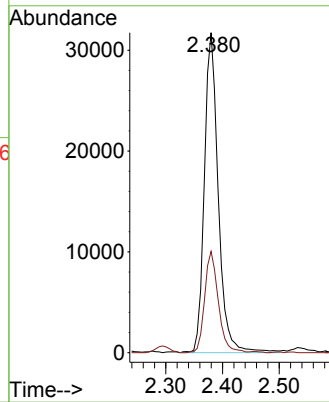
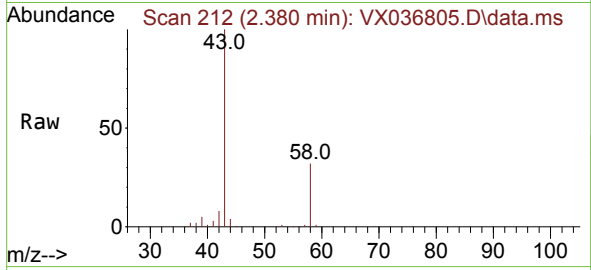




#16
Acetone
Concen: 63.698 ug/l
RT: 2.380 min Scan# 214
Delta R.T. -0.012 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

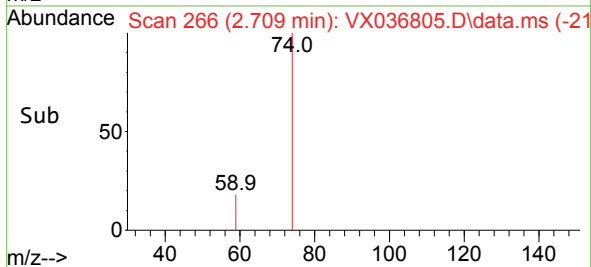
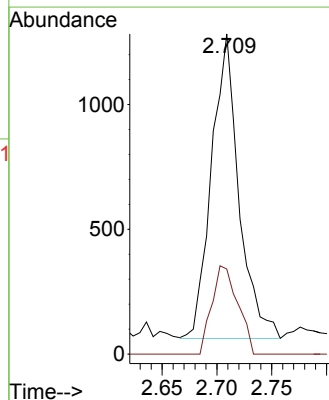
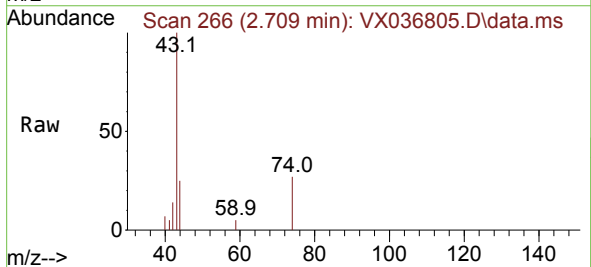
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

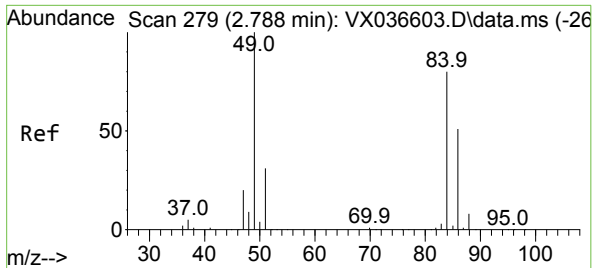
Tgt Ion: 43 Resp: 54228
Ion Ratio Lower Upper
43 100
58 31.6 21.9 32.9



#18
Methyl Acetate
Concen: 0.593 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion: 43 Resp: 2122
Ion Ratio Lower Upper
43 100
74 27.4 17.8 26.8#





#20

Methylene Chloride

Concen: 5.211 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX036805.D

Acq: 04 Aug 2023 13:07

Instrument :

MSVOA_X

ClientSampleId :

ZHC#03

Tgt Ion: 84 Resp: 9867

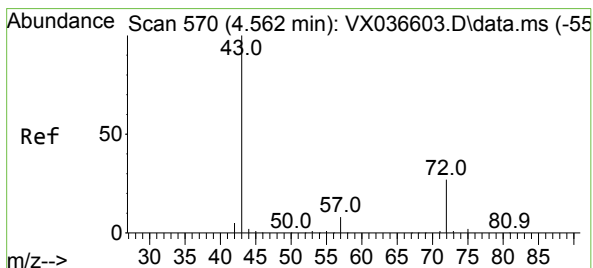
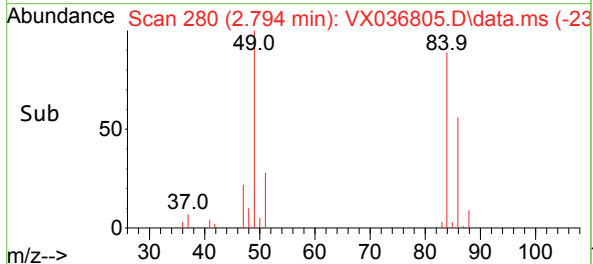
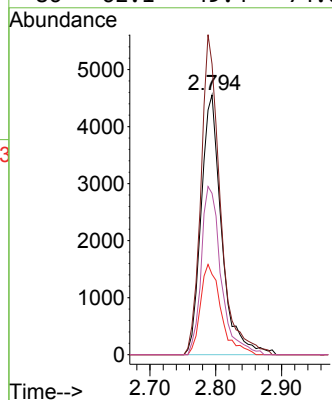
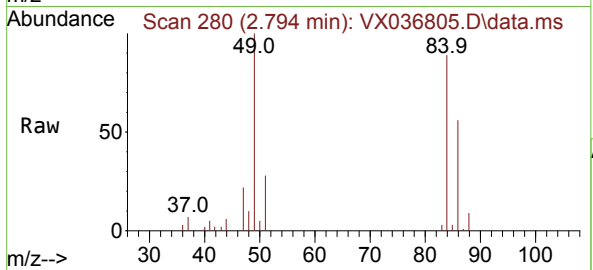
Ion Ratio Lower Upper

84 100

49 111.9 103.6 155.4

51 30.9 33.8 50.6#

86 62.1 49.4 74.0



#25

2-Butanone

Concen: 21.650 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.000 min

Lab File: VX036805.D

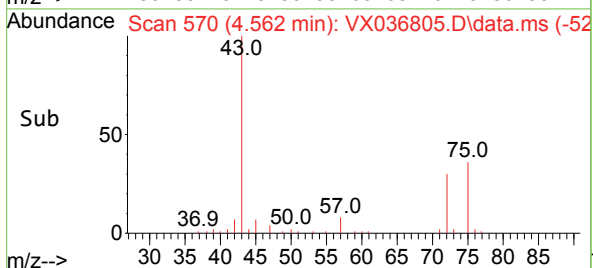
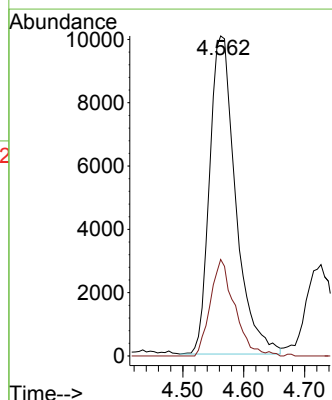
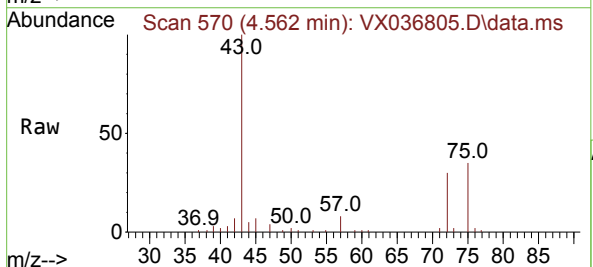
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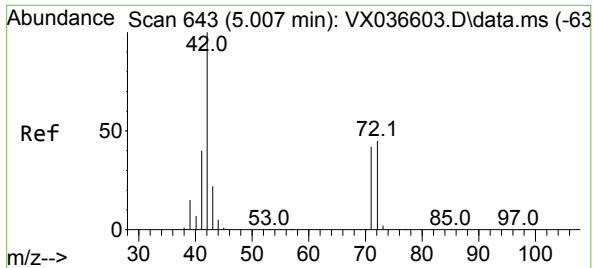
Tgt Ion: 43 Resp: 29904

Ion Ratio Lower Upper

43 100

72 30.3 19.4 29.2#





#29

Tetrahydrofuran

Concen: 1.132 ug/l

RT: 5.032 min Scan# 643

Delta R.T. 0.024 min

Lab File: VX036805.D

Acq: 04 Aug 2023 13:07

Instrument :

MSVOA_X

ClientSampleId :

ZHC#03

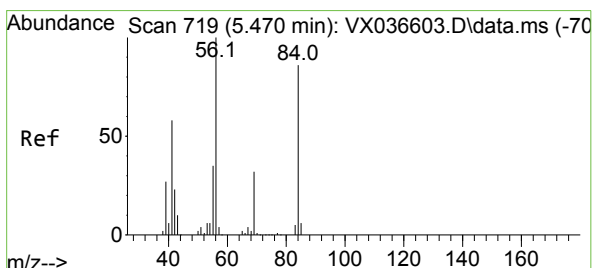
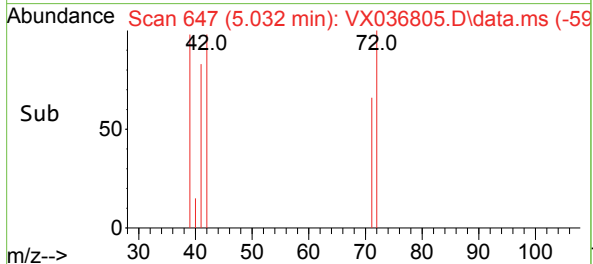
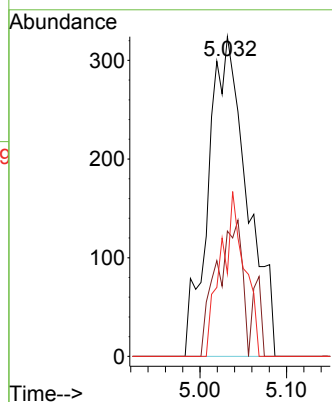
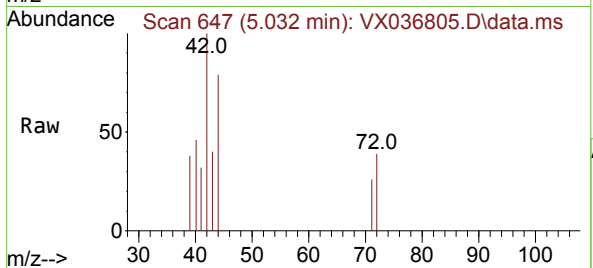
Tgt Ion: 42 Resp: 1008

Ion Ratio Lower Upper

42 100

72 27.9 34.2 51.4#

71 31.3 32.2 48.2#



#31

Cyclohexane

Concen: 1.069 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX036805.D

Acq: 04 Aug 2023 13:07

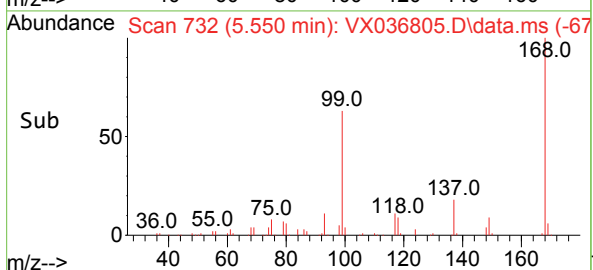
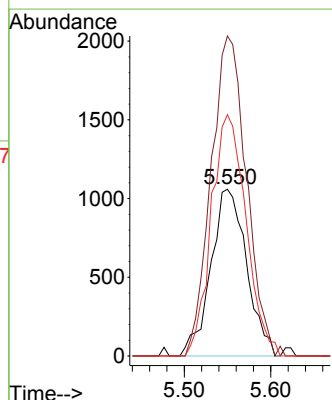
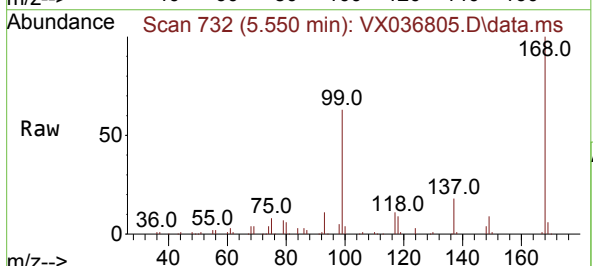
Tgt Ion: 56 Resp: 3036

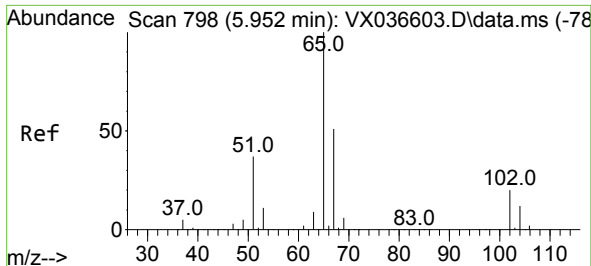
Ion Ratio Lower Upper

56 100

69 192.0 23.4 35.2#

84 144.8 65.9 98.9#

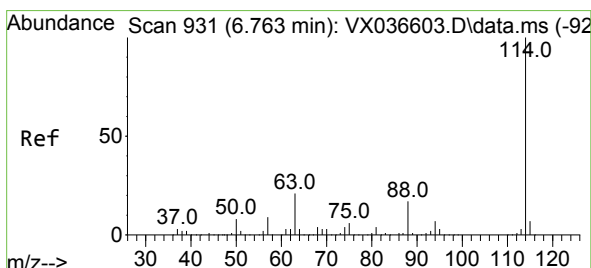
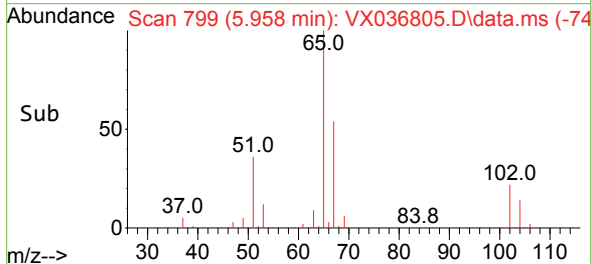
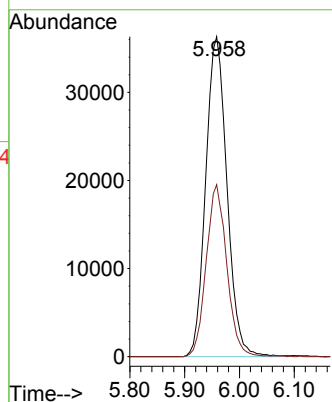
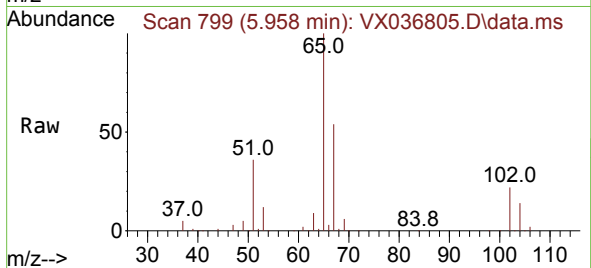




#33
 1,2-Dichloroethane-d4
 Concen: 47.554 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.006 min
 Lab File: VX036805.D
 Acq: 04 Aug 2023 13:07

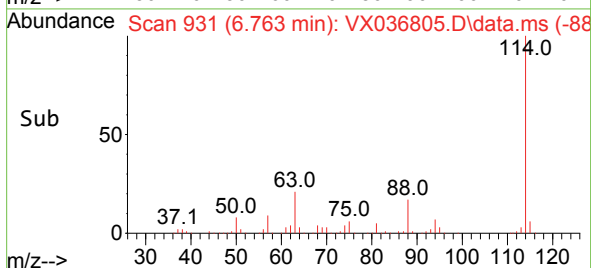
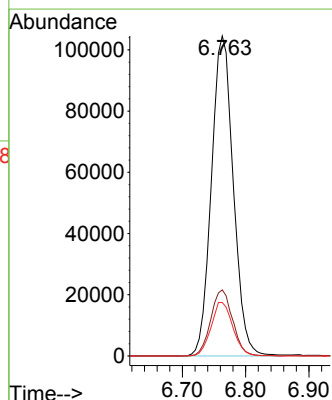
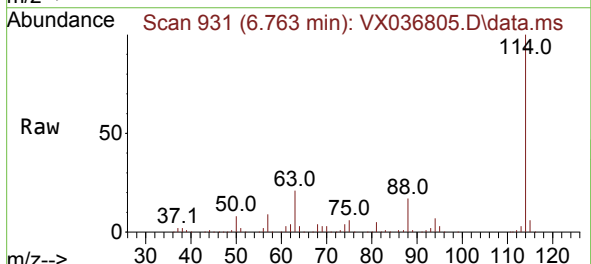
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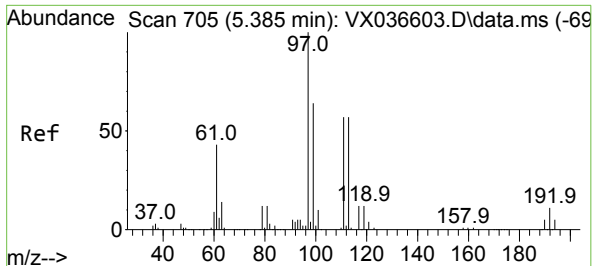
Tgt Ion: 65 Resp: 97560
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX036805.D
 Acq: 04 Aug 2023 13:07

Tgt Ion: 114 Resp: 251402
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 45.0
 88 16.7 0.0 36.6





#35

Dibromofluoromethane

Concen: 47.729 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX036805.D

Acq: 04 Aug 2023 13:07

Instrument :

MSVOA_X

ClientSampleId :

ZHC#03

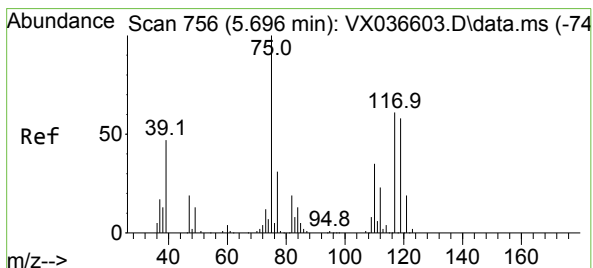
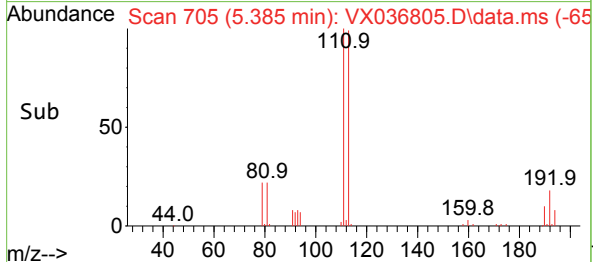
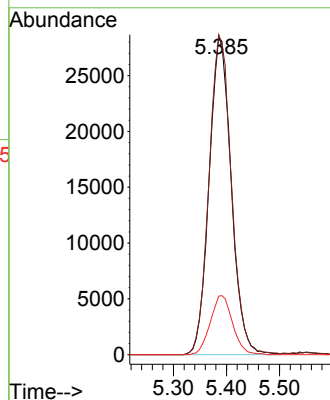
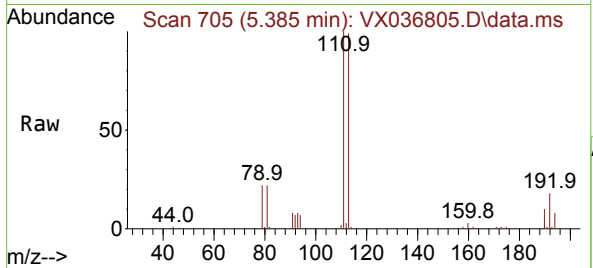
Tgt Ion:113 Resp: 82476

Ion Ratio Lower Upper

113 100

111 102.1 82.9 124.3

192 18.7 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.348 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX036805.D

Acq: 04 Aug 2023 13:07

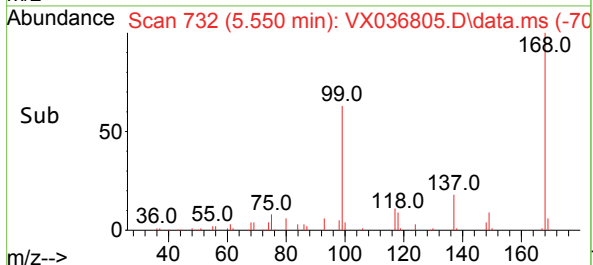
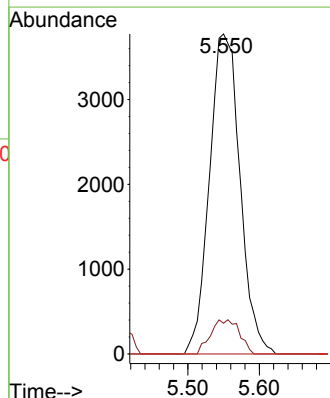
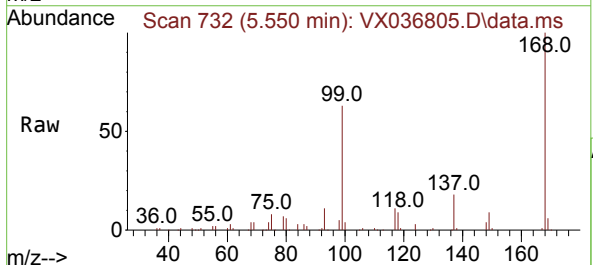
Tgt Ion: 75 Resp: 11198

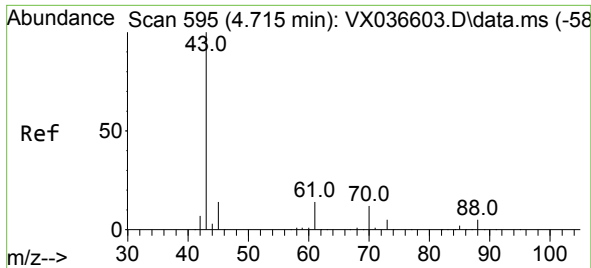
Ion Ratio Lower Upper

75 100

110 10.1 17.0 50.9#

77 0.0 24.7 37.1#

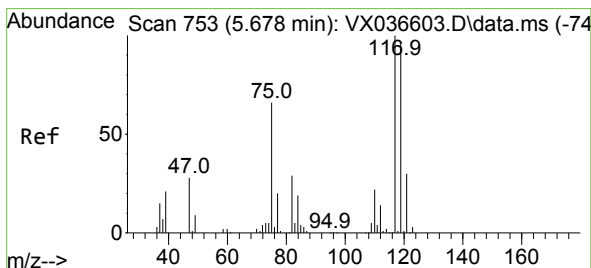
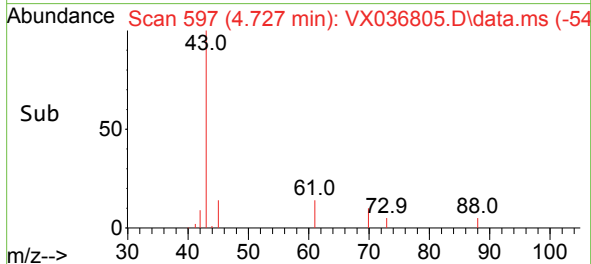
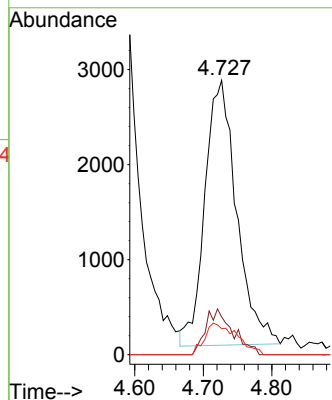
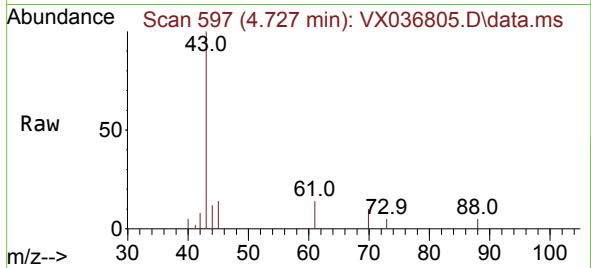




#37
Ethyl Acetate
Concen: 3.083 ug/l
RT: 4.727 min Scan# 595
Delta R.T. 0.012 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

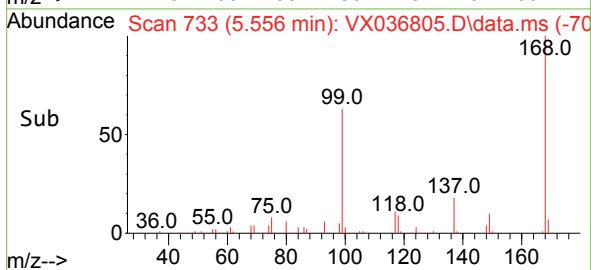
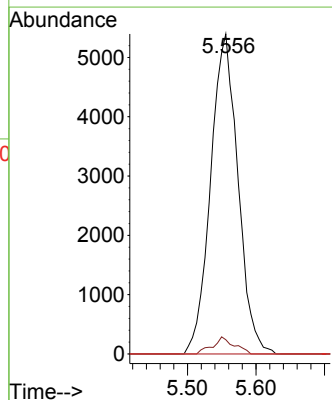
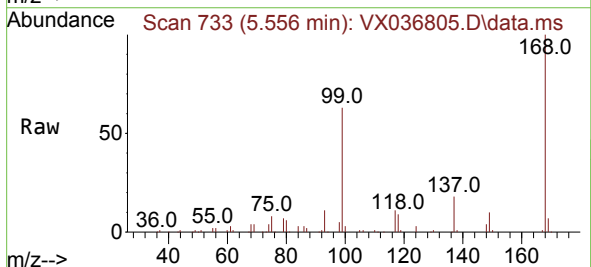
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

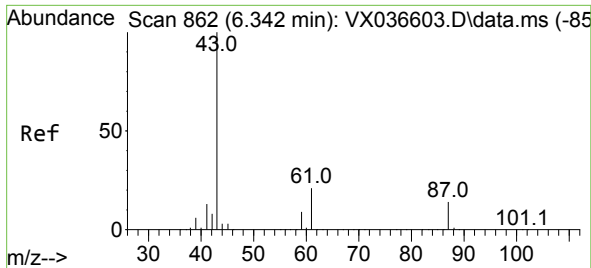
Tgt Ion: 43	Resp: 8986
Ion Ratio	Lower Upper
43	100
61	14.7 10.6 16.0
70	12.0 8.3 12.5



#38
Carbon Tetrachloride
Concen: 5.458 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion: 117	Resp: 14945
Ion Ratio	Lower Upper
117	100
119	4.5 78.2 117.2#
121	0.0 24.4 36.6#

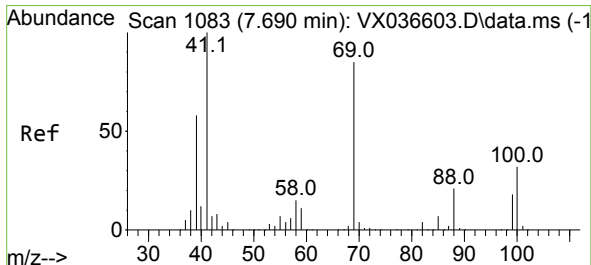
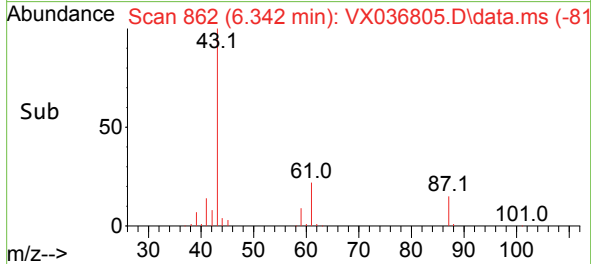
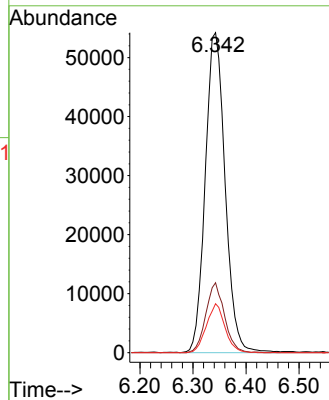
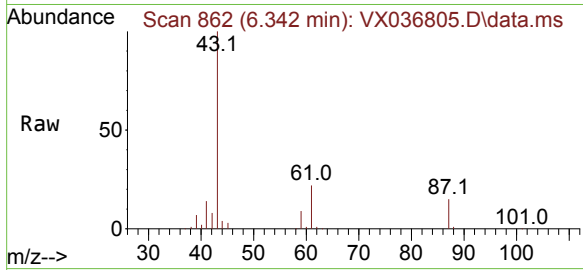




#43
Isopropyl Acetate
Concen: 28.112 ug/l
RT: 6.342 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

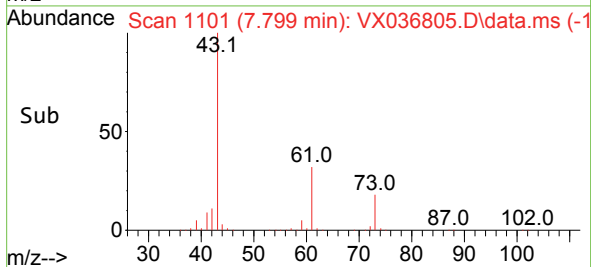
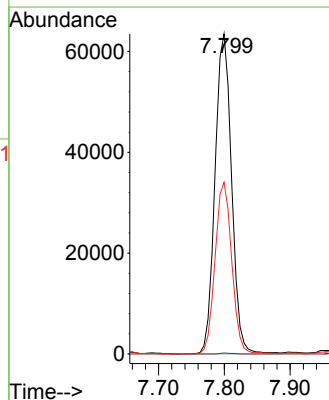
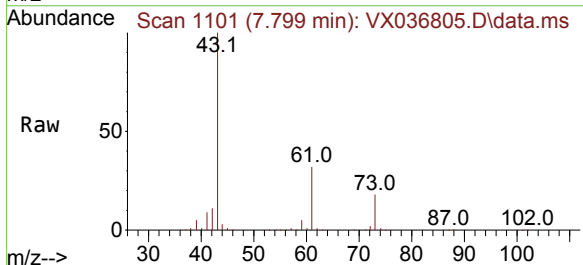
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

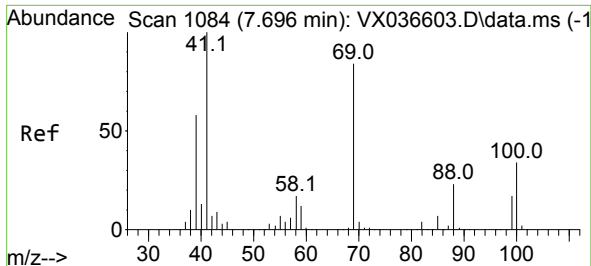
Tgt Ion: 43 Resp: 141068
Ion Ratio Lower Upper
43 100
61 20.5 15.2 22.8
87 14.3 9.8 14.6



#48
Methyl methacrylate
Concen: 47.753 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.110 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion: 41 Resp: 111441
Ion Ratio Lower Upper
41 100
69 0.2 59.2 88.8#
39 54.0 47.7 71.5

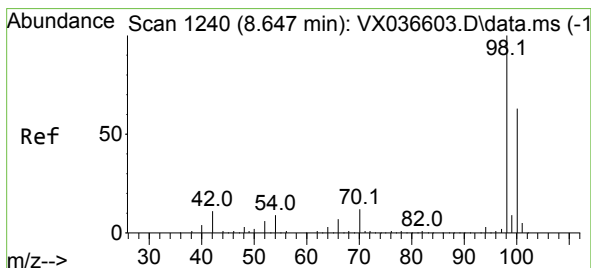
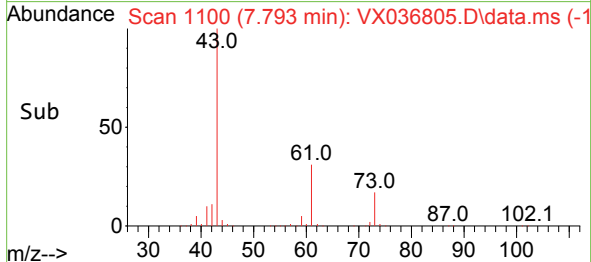
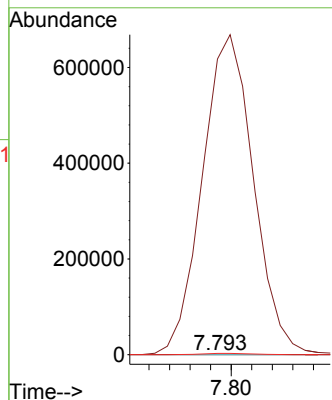
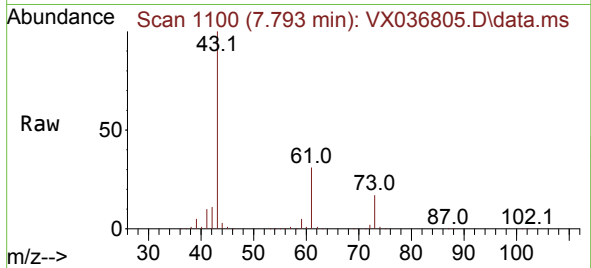




#49
1,4-Dioxane
Concen: 3.797 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.098 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

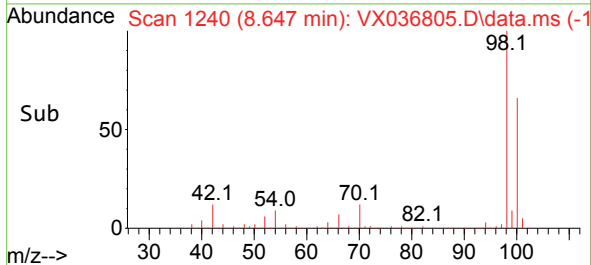
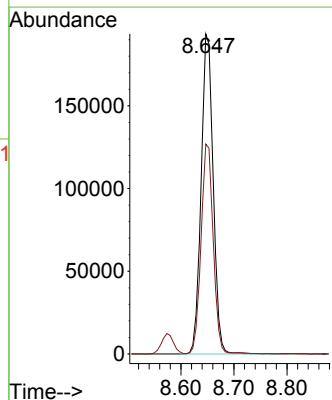
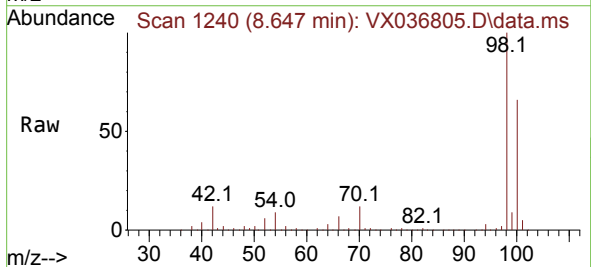
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

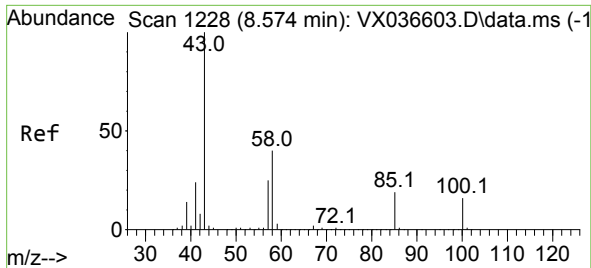
Tgt Ion: 88 Resp: 179
Ion Ratio Lower Upper
88 100
43 650078.8 0.0 0.0#
58 2639.1 60.1 90.1#



#50
Toluene-d8
Concen: 49.829 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion: 98 Resp: 305347
Ion Ratio Lower Upper
98 100
100 65.7 53.1 79.7

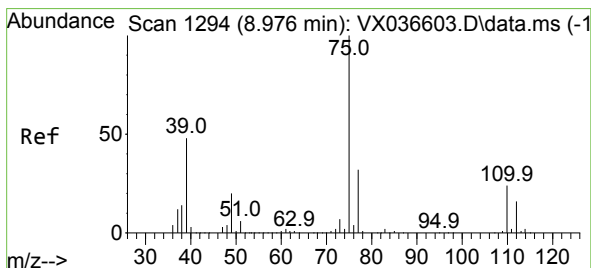
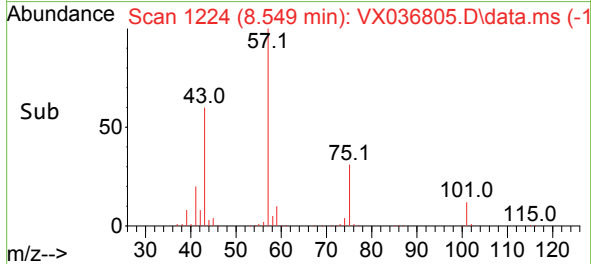
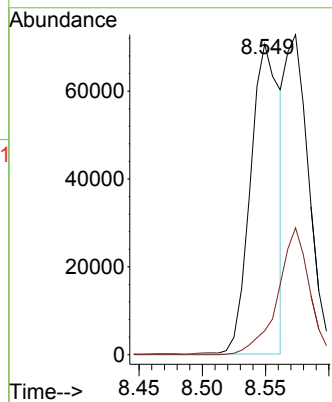
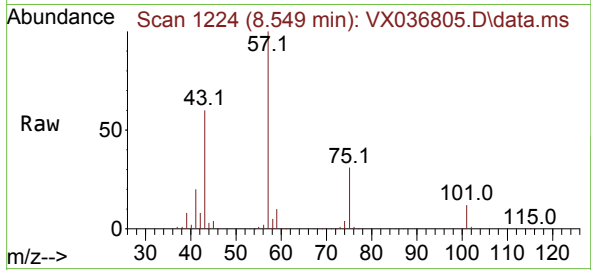




#51
4-Methyl-2-Pentanone
Concen: 40.981 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

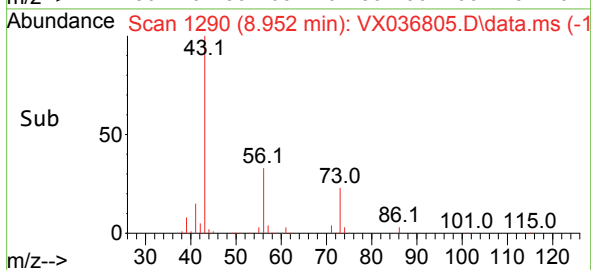
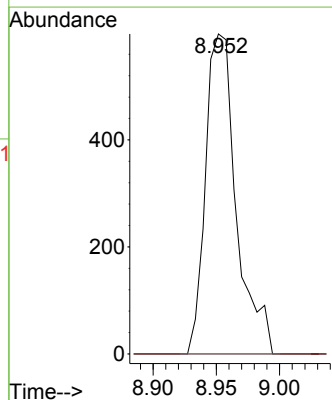
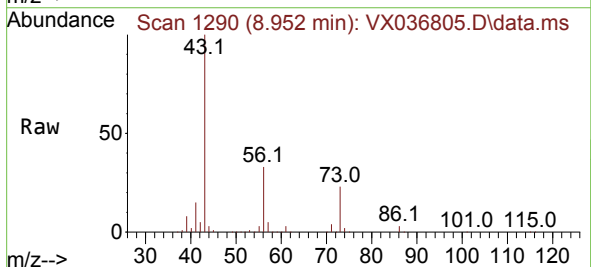
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

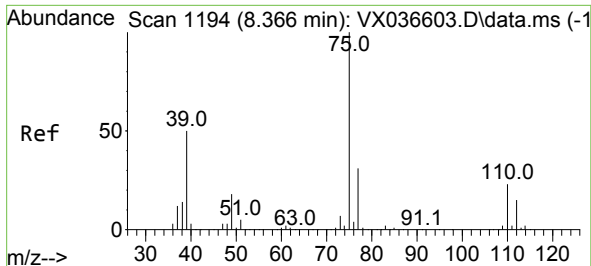
Tgt Ion: 43 Resp: 113802
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 0.312 ug/l
RT: 8.952 min Scan# 1290
Delta R.T. -0.024 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion: 75 Resp: 1013
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#

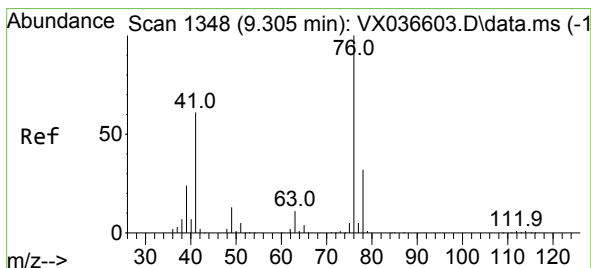
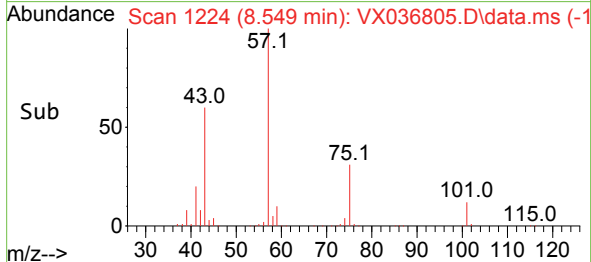
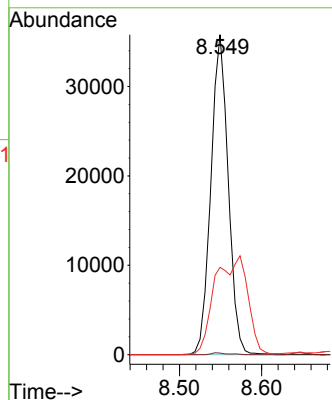
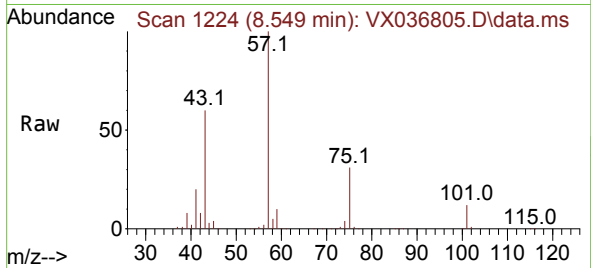




#54
 cis-1,3-Dichloropropene
 Concen: 15.283 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX036805.D
 Acq: 04 Aug 2023 13:07

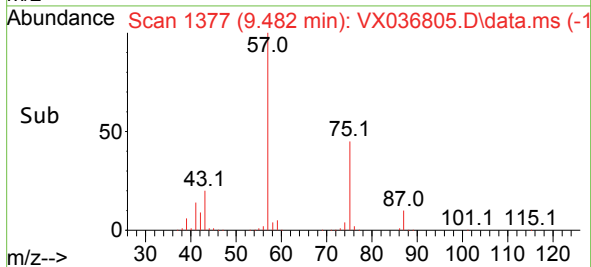
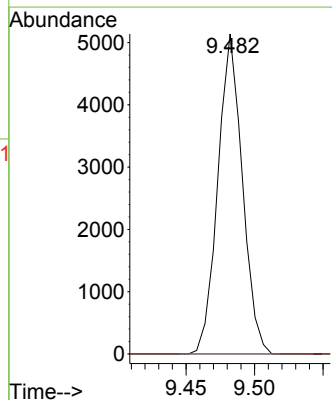
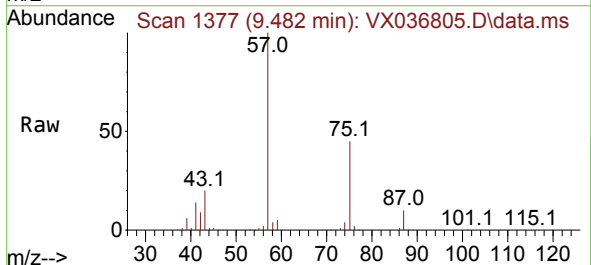
Instrument :
 MSVOA_X
 ClientSampleId :
 ZHC#03

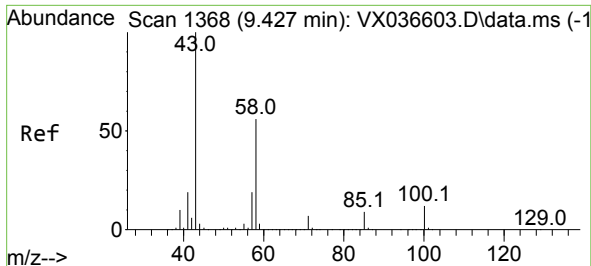
Tgt Ion: 75 Resp: 52388
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.3 37.9#
 39 27.3 46.7 70.1#



#57
 1,3-Dichloropropane
 Concen: 1.941 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX036805.D
 Acq: 04 Aug 2023 13:07

Tgt Ion: 76 Resp: 6380
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

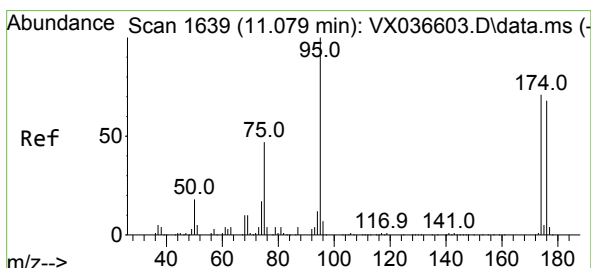
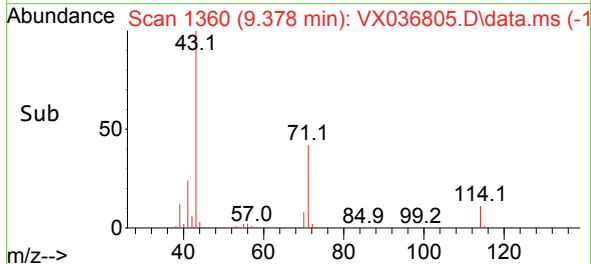
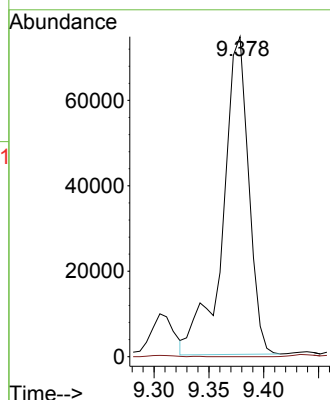
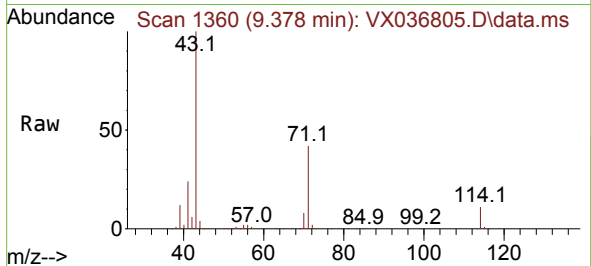




#59
2-Hexanone
Concen: 59.078 ug/l
RT: 9.378 min Scan# 11
Delta R.T. -0.049 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

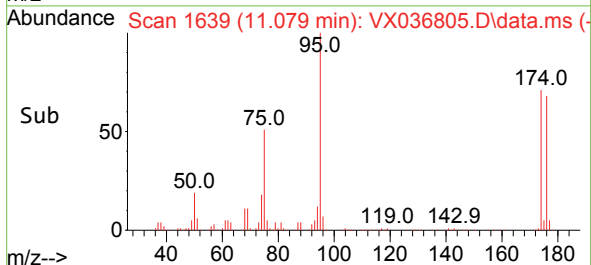
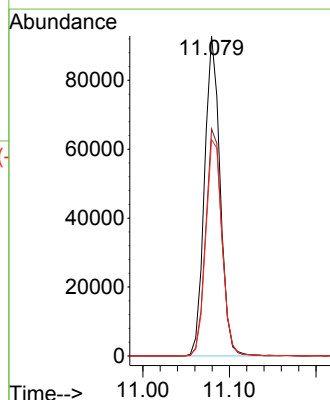
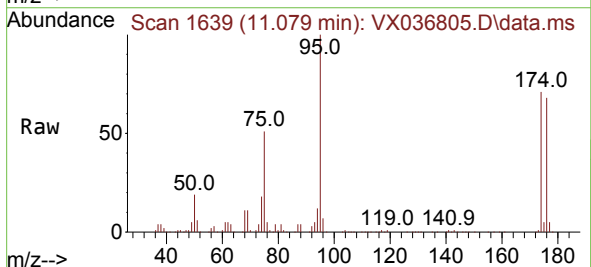
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

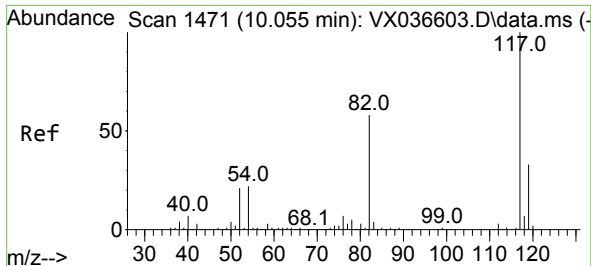
Tgt Ion: 43 Resp: 121757
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.5#



#62
4-Bromofluorobenzene
Concen: 50.275 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion: 95 Resp: 116233
Ion Ratio Lower Upper
95 100
174 73.3 0.0 135.6
176 70.9 0.0 131.0

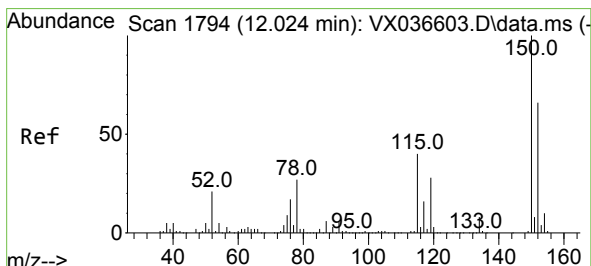
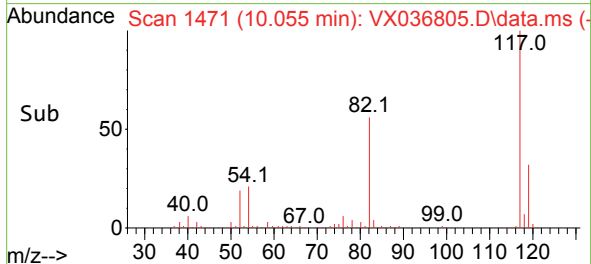
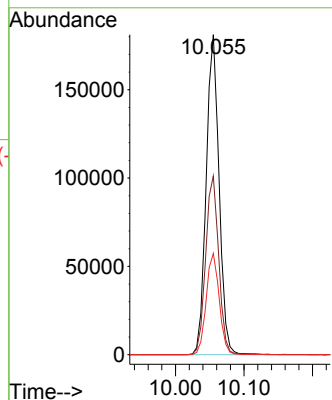
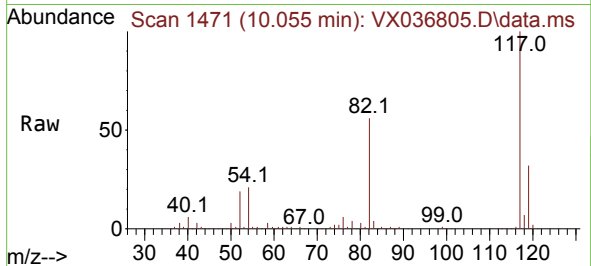




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

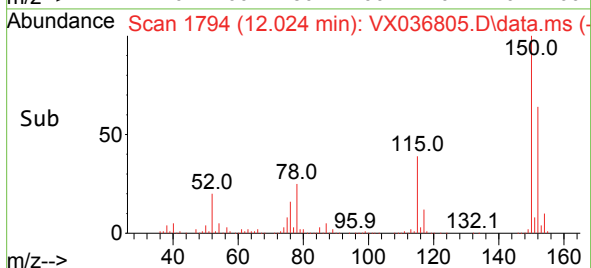
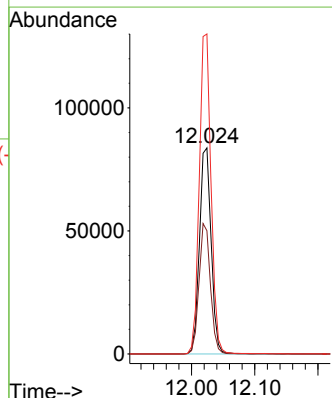
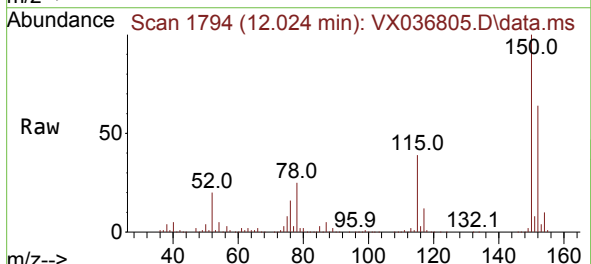
Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

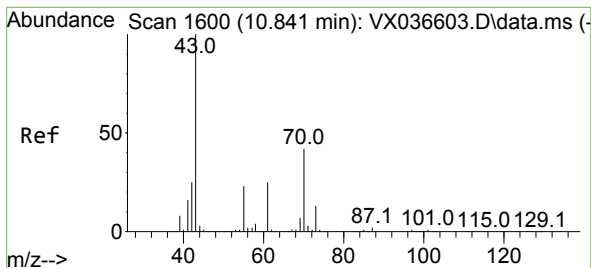
Tgt Ion:117 Resp: 237289
Ion Ratio Lower Upper
117 100
82 55.9 46.2 69.4
119 31.6 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Tgt Ion:152 Resp: 108030
Ion Ratio Lower Upper
152 100
115 61.8 43.3 129.9
150 155.9 0.0 345.0





#74

N-amy1 acetate

Concen: 0.214 ug/l

RT: 10.811 min Scan# 1

Delta R.T. -0.030 min

Lab File: VX036805.D

Acq: 04 Aug 2023 13:07

Instrument :

MSVOA_X

ClientSampleId :

ZHC#03

Tgt Ion: 43 Resp: 893

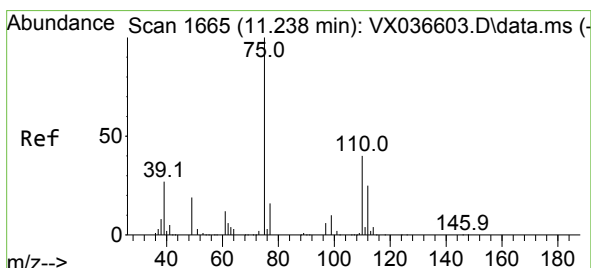
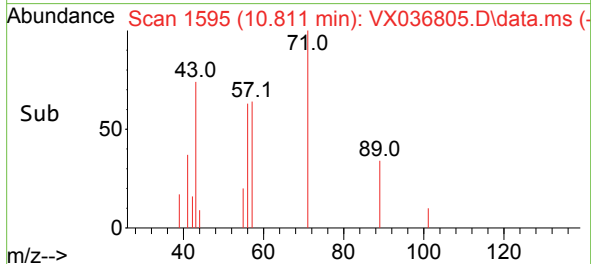
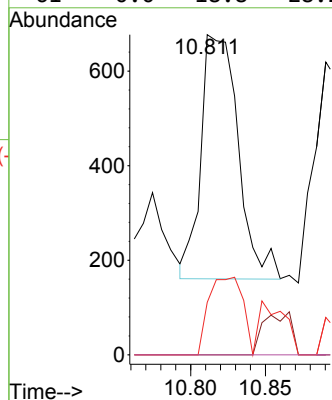
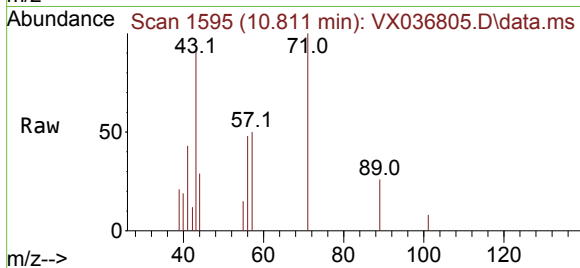
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 29.0 19.3 28.9#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 23.639 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX036805.D

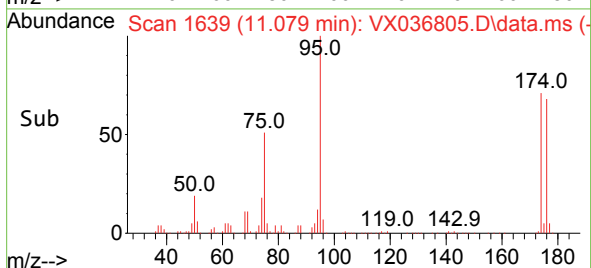
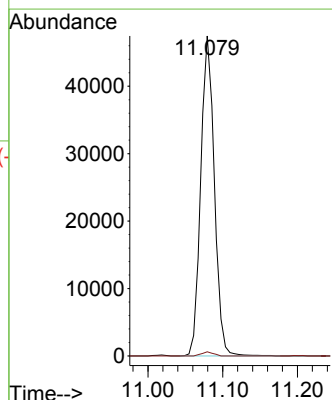
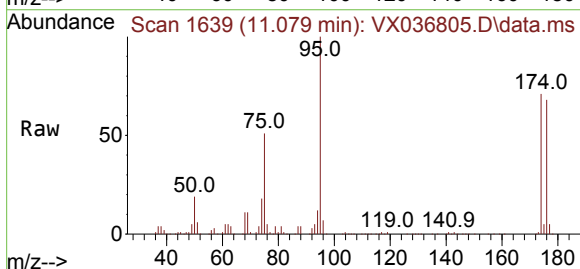
Acq: 04 Aug 2023 13:07

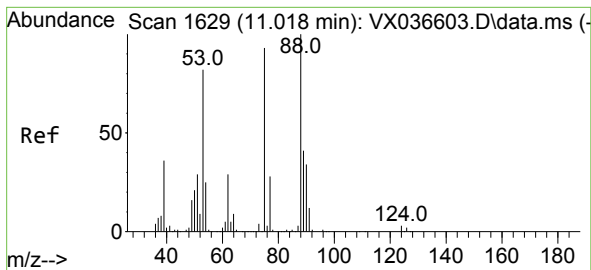
Tgt Ion: 75 Resp: 60066

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 53.579 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX036805.D
Acq: 04 Aug 2023 13:07

Instrument :
MSVOA_X
ClientSampleId :
ZHC#03

Tgt Ion: 75 Resp: 60066
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#

