

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111023\
 Data File : VX038731.D
 Acq On : 10 Nov 2023 16:11
 Operator : JC/MD
 Sample : 05331-02 100X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-08

Quant Time: Nov 11 01:55:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110723W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 08 03:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	251783	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	423376	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	440131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	258750	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	147768	47.141	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.280%		
35) Dibromofluoromethane	5.391	113	138361	45.375	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.740%		
50) Toluene-d8	8.647	98	500259	45.847	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	91.700%#		
62) 4-Bromofluorobenzene	11.079	95	217555	51.425	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.840%		
Target Compounds					Qvalue	
6) Chloroethane	1.691	64	471	0.309	ug/l	# 43
11) Tert butyl alcohol	2.946	59	1252	1.954	ug/l	# 78
16) Acetone	2.380	43	740	0.561	ug/l	# 77
20) Methylene Chloride	2.788	84	1421	0.534	ug/l	# 74
31) Cyclohexane	5.458	56	847	0.244	ug/l	# 88
36) 1,1-Dichloropropene	5.556	75	16423	4.336	ug/l	# 52
38) Carbon Tetrachloride	5.550	117	23279	5.498	ug/l	# 15
39) Methylcyclohexane	7.379	83	1942	0.410	ug/l	84
40) Benzene	6.043	78	8541	0.783	ug/l	96
51) 4-Methyl-2-Pentanone	8.647	43	1665	0.430	ug/l	# 1
52) Toluene	8.720	92	6885	0.963	ug/l	99
67) Ethyl Benzene	10.195	91	184745	12.190	ug/l	97
68) m/p-Xylenes	10.299	106	314827	52.341	ug/l	95
69) o-Xylene	10.640	106	166740	28.506	ug/l	98
70) Styrene	10.640	104	8573	0.888	ug/l	# 1
73) Isopropylbenzene	10.963	105	11859	0.747	ug/l	93
76) 1,2,3-Trichloropropane	11.079	75	105331	20.554	ug/l	# 39
78) n-propylbenzene	11.305	91	27531	1.490	ug/l	97
79) 2-Chlorotoluene	11.378	91	28777	2.602	ug/l	# 42
80) 1,3,5-Trimethylbenzene	11.451	105	74652	5.464	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.079	75	105331	62.629	ug/l	# 5
82) 4-Chlorotoluene	11.451	91	8361	0.647	ug/l	# 49
83) tert-Butylbenzene	11.750	119	37548	2.712	ug/l	# 66
84) 1,2,4-Trimethylbenzene	11.750	105	306408	22.612	ug/l	94
85) sec-Butylbenzene	11.750	105	306408	17.738	ug/l	# 57
86) p-Isopropyltoluene	11.969	119	3775	0.257	ug/l	97
89) n-Butylbenzene	12.323	91	6082	0.464	ug/l	# 5
90) Hexachloroethane	12.530	117	1833	0.735	ug/l	# 17
95) Naphthalene	13.774	128	118773	6.768	ug/l	100

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

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Quant Title : SW846 8260
QLast Update : Wed Nov 08 03:19:07 2023
Response via : Initial Calibration

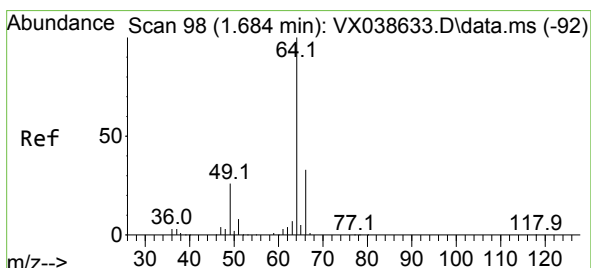
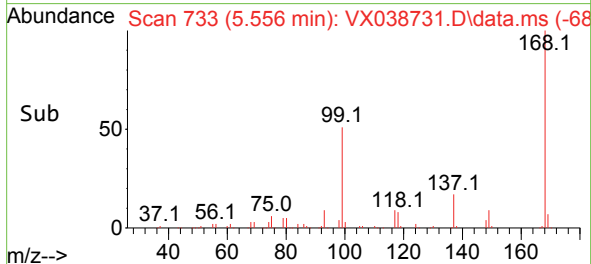
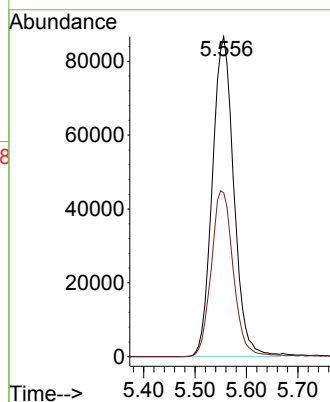
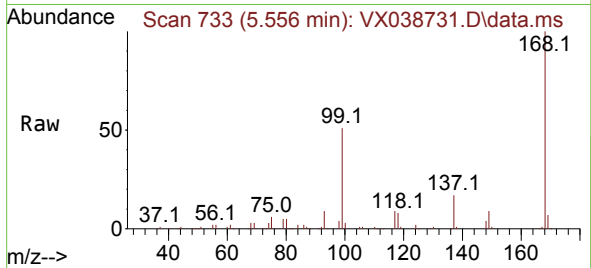




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

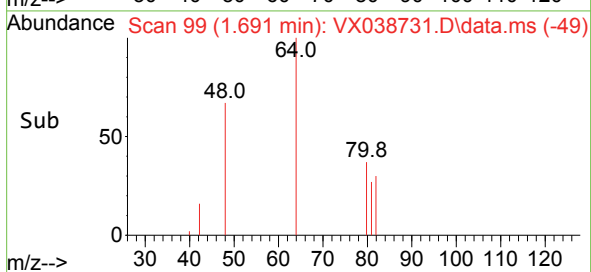
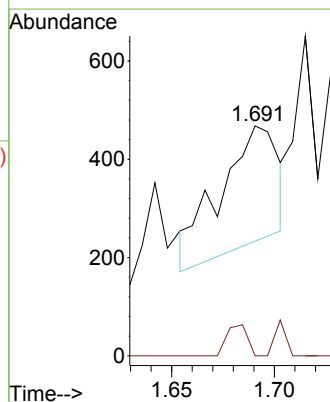
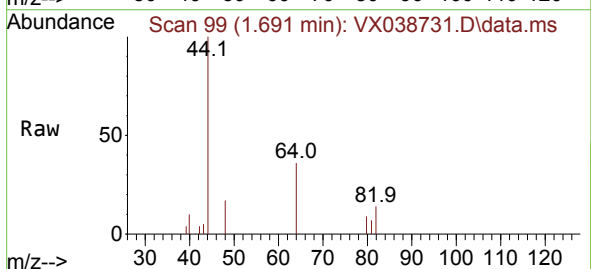
Instrument :
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ClientSampleId :
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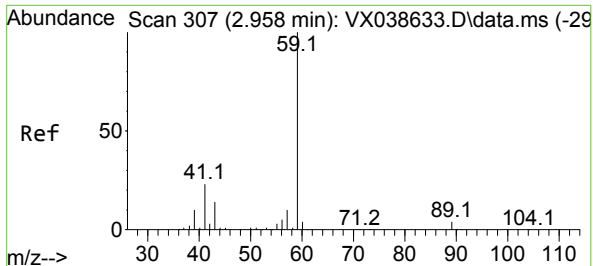
Tgt Ion:168 Resp: 251783
Ion Ratio Lower Upper
168 100
99 51.2 56.6 85.0#



#6
Chloroethane
Concen: 0.309 ug/l
RT: 1.691 min Scan# 99
Delta R.T. 0.006 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 64 Resp: 471
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 1.954 ug/l

RT: 2.946 min Scan# 307

Delta R.T. -0.012 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

Instrument :

MSVOA_X

ClientSampleId :

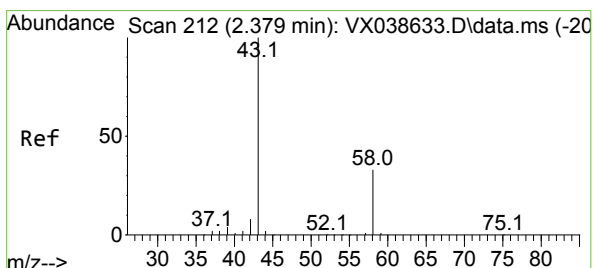
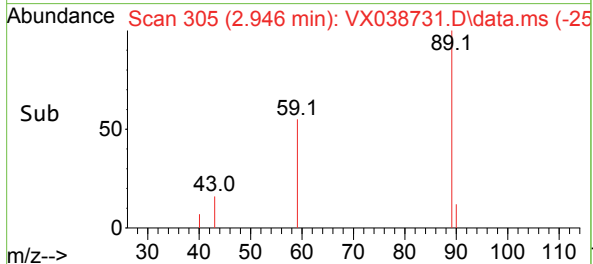
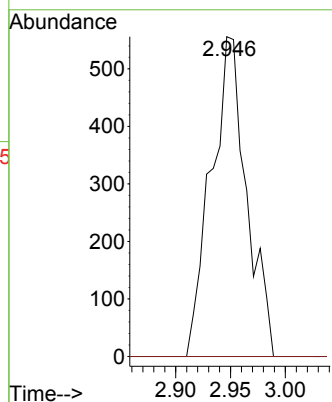
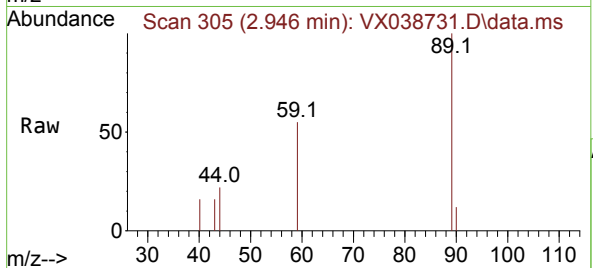
MW-08

Tgt Ion: 59 Resp: 1252

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 0.561 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX038731.D

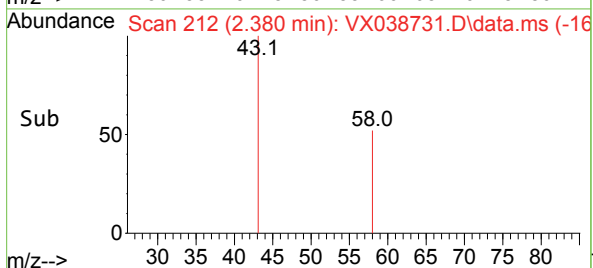
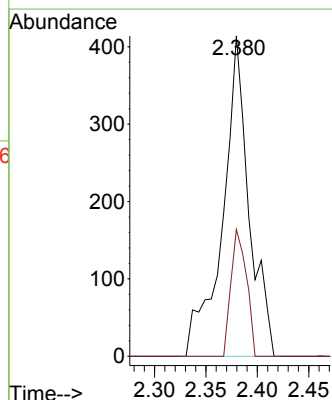
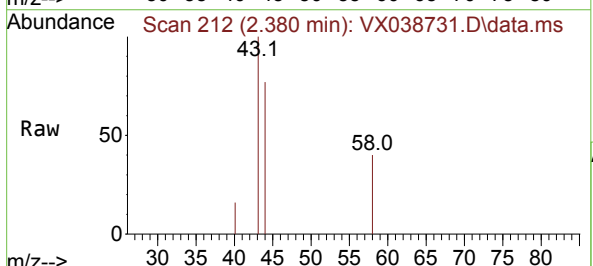
Acq: 10 Nov 2023 16:11

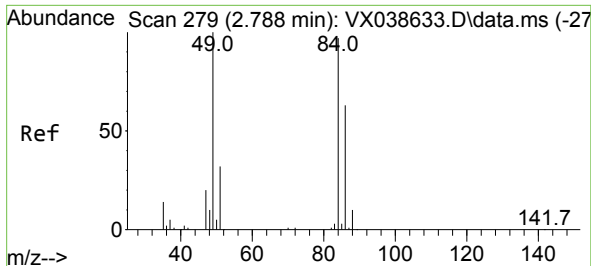
Tgt Ion: 43 Resp: 740

Ion Ratio Lower Upper

43 100

58 39.6 21.9 32.9#

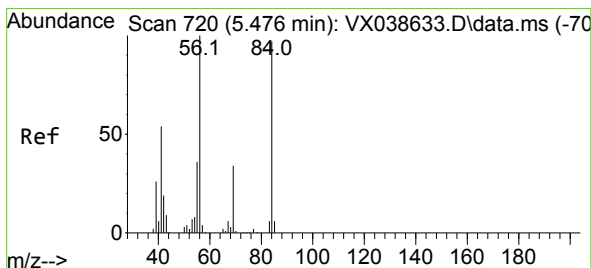
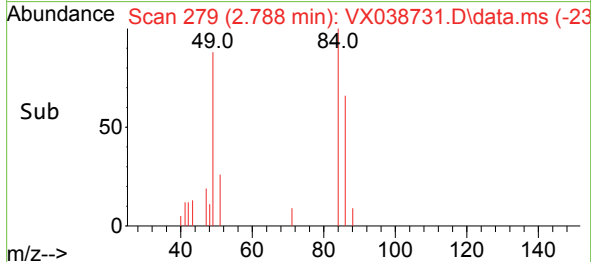
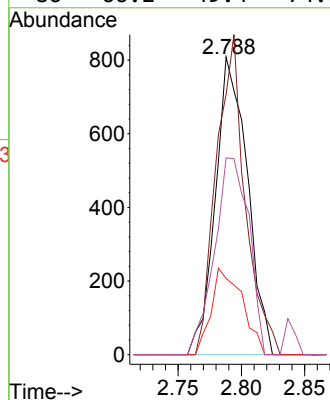
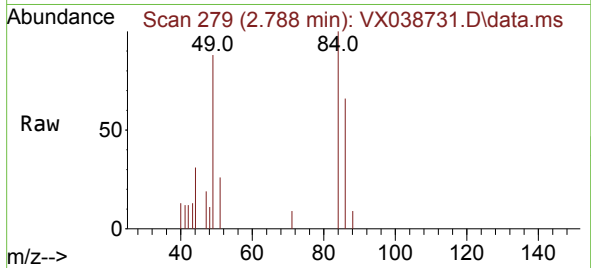




#20
Methylene Chloride
Concen: 0.534 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

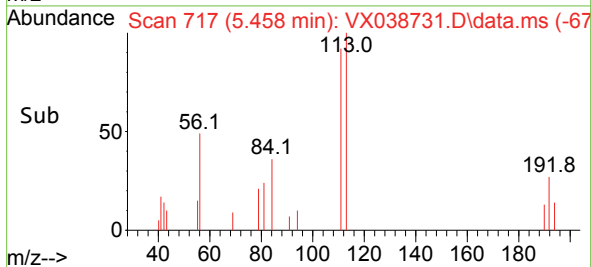
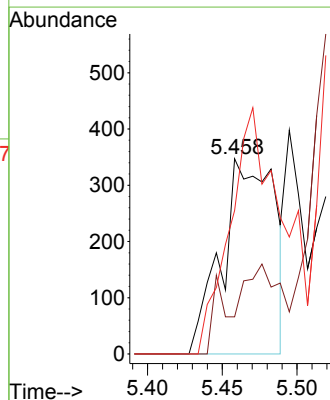
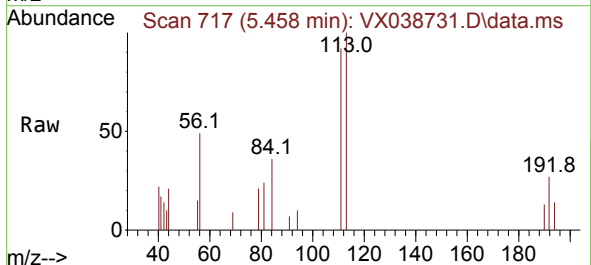
Instrument :
MSVOA_X
ClientSampleId :
MW-08

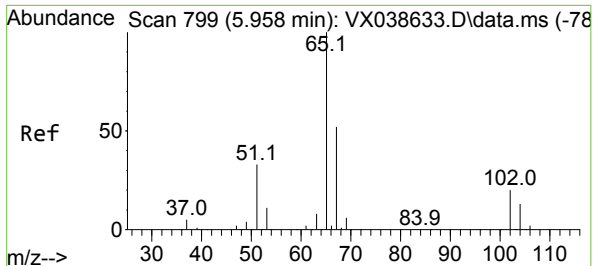
Tgt Ion:	84	Resp:	1421
Ion	Ratio	Lower	Upper
84	100		
49	87.5	103.6	155.4#
51	25.6	33.8	50.6#
86	66.2	49.4	74.0



#31
Cyclohexane
Concen: 0.244 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.018 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion:	56	Resp:	847
Ion	Ratio	Lower	Upper
56	100		
69	19.0	23.4	35.2#
84	73.5	65.9	98.9





#33

1,2-Dichloroethane-d4

Concen: 47.141 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

Instrument :

MSVOA_X

ClientSampleId :

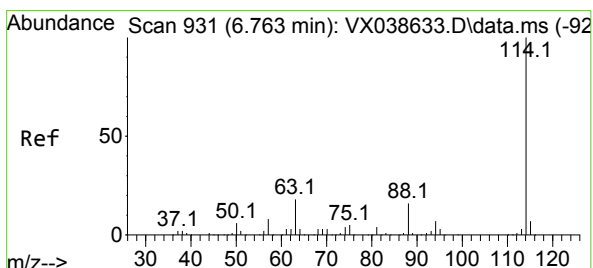
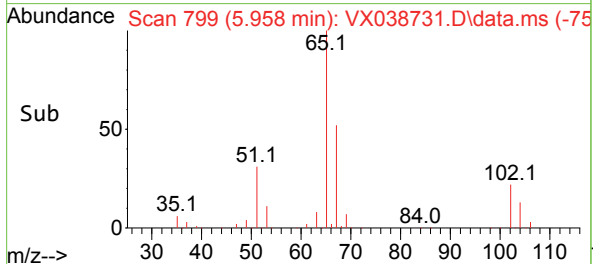
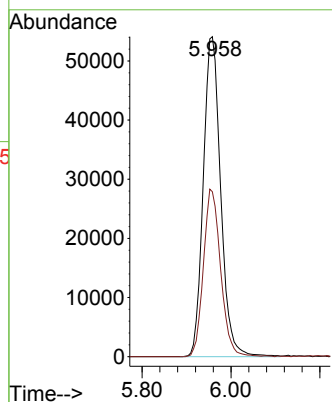
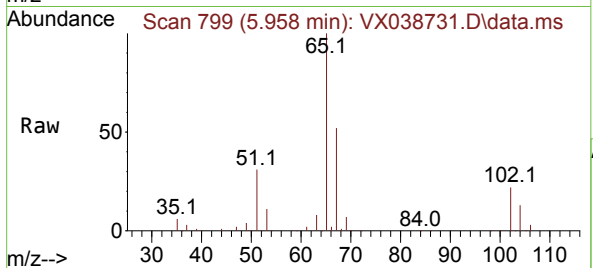
MW-08

Tgt Ion: 65 Resp: 147768

Ion Ratio Lower Upper

65 100

67 51.7 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: VX038731.D

Acq: 10 Nov 2023 16:11

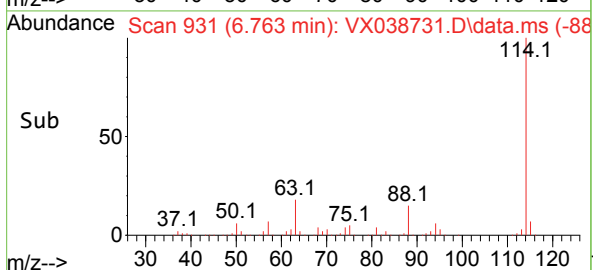
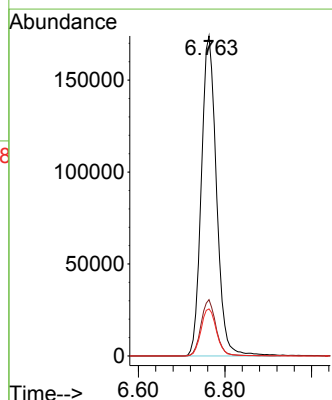
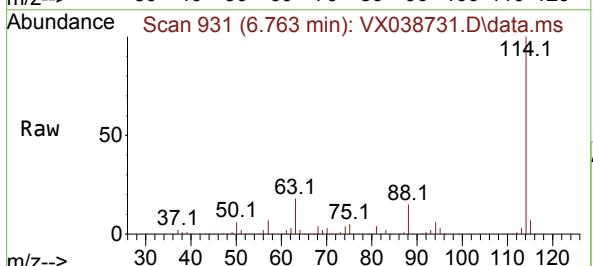
Tgt Ion: 114 Resp: 423376

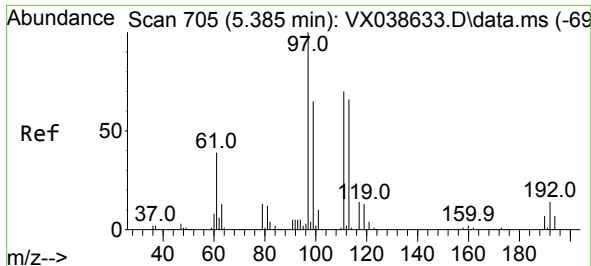
Ion Ratio Lower Upper

114 100

63 17.6 0.0 45.0

88 14.7 0.0 36.6

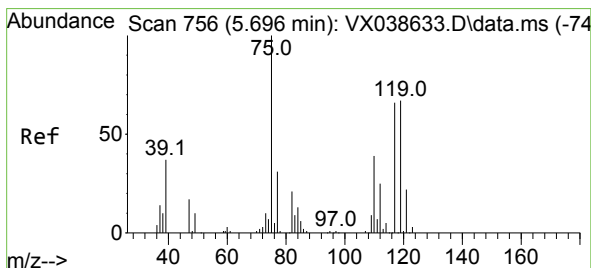
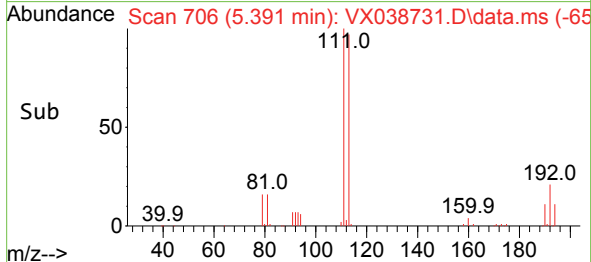
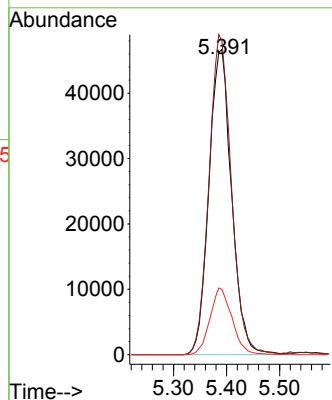
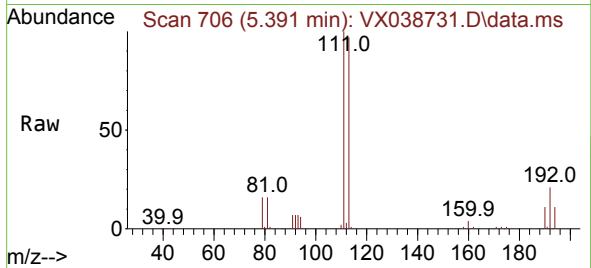




#35
Dibromofluoromethane
Concen: 45.375 ug/l
RT: 5.391 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

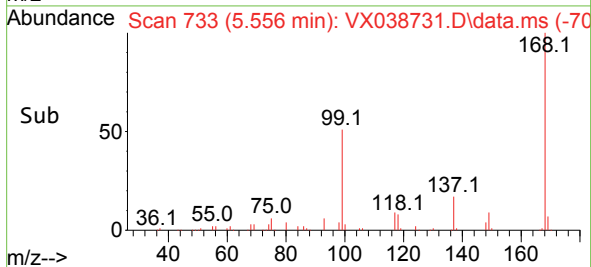
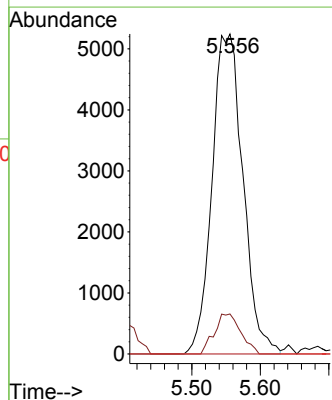
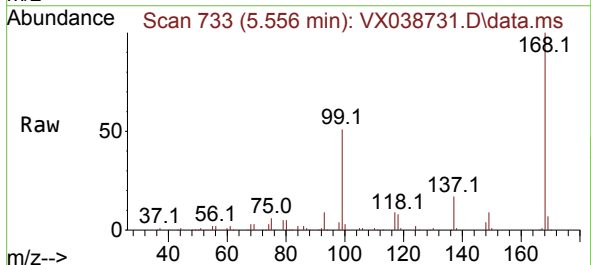
Instrument :
MSVOA_X
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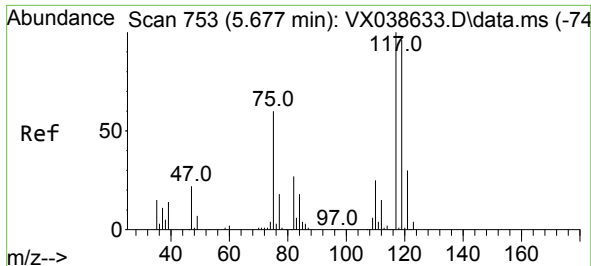
Tgt Ion:113 Resp: 138361
Ion Ratio Lower Upper
113 100
111 103.5 82.9 124.3
192 21.3 13.3 19.9#



#36
1,1-Dichloropropene
Concen: 4.336 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.140 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 75 Resp: 16423
Ion Ratio Lower Upper
75 100
110 10.7 17.0 50.9#
77 0.0 24.7 37.1#

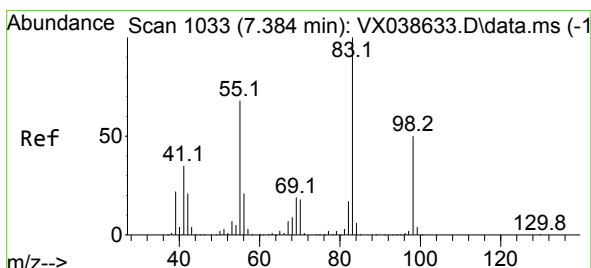
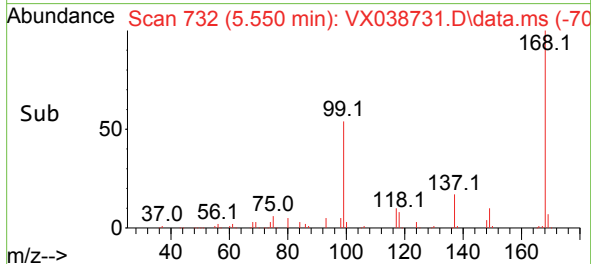
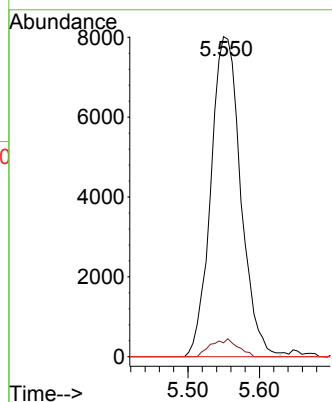
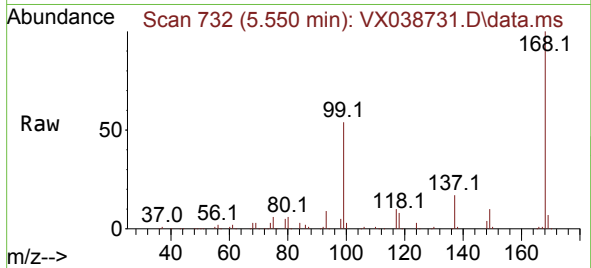




#38
Carbon Tetrachloride
Concen: 5.498 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

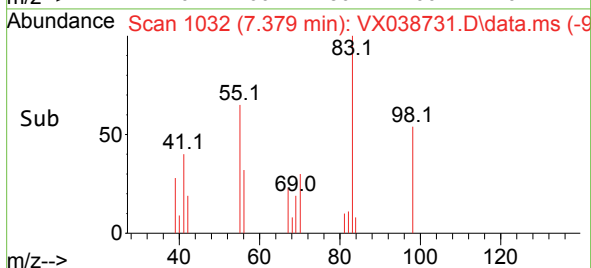
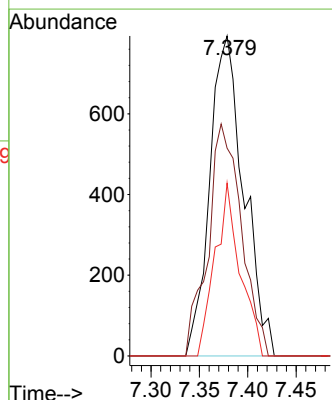
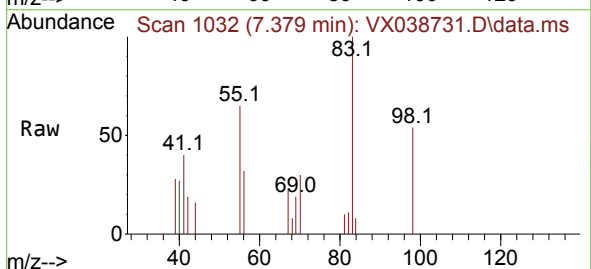
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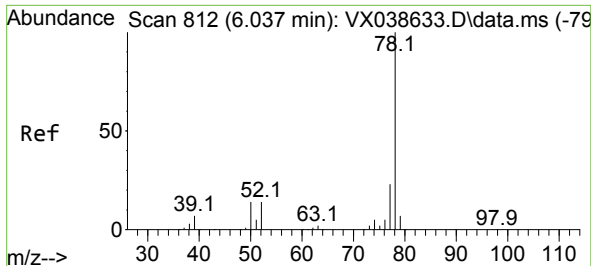
Tgt Ion:117 Resp: 23279
Ion Ratio Lower Upper
117 100
119 4.4 78.2 117.2#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.410 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. -0.006 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 83 Resp: 1942
Ion Ratio Lower Upper
83 100
55 64.9 64.6 97.0
98 54.0 36.7 55.1

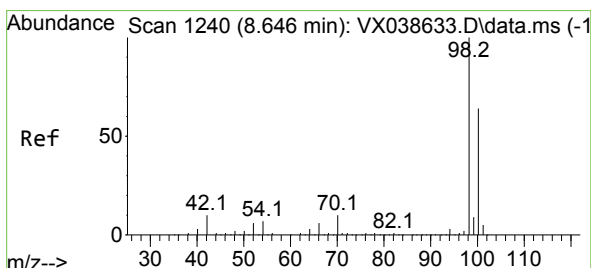
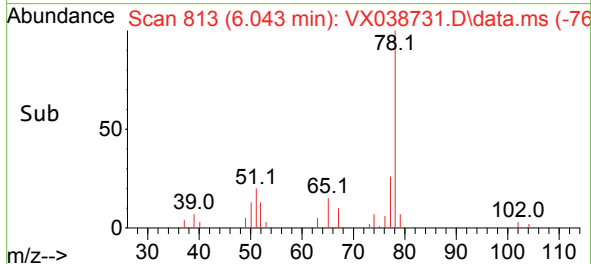
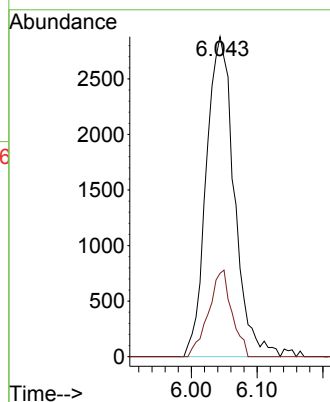
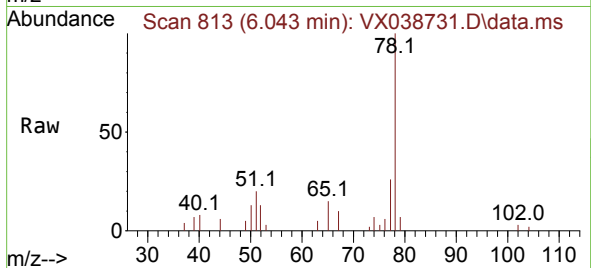




#40
Benzene
Concen: 0.783 ug/l
RT: 6.043 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

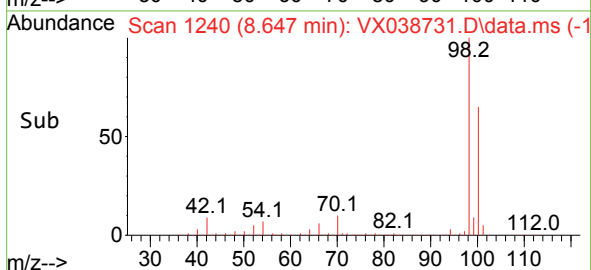
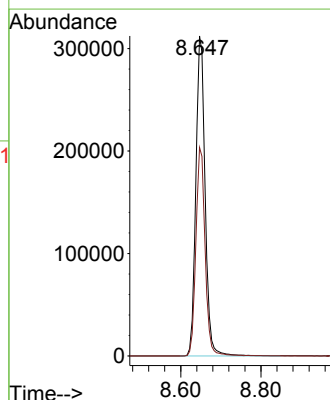
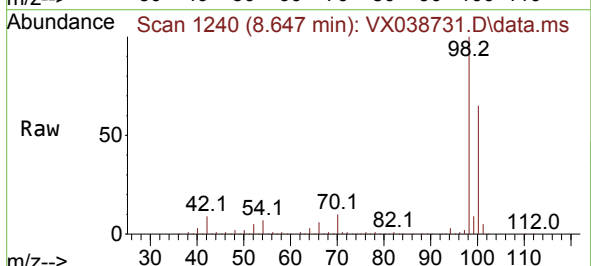
Instrument :
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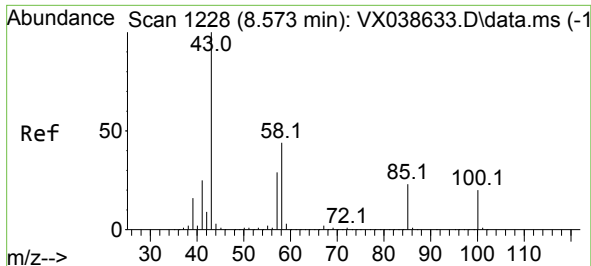
Tgt Ion: 78 Resp: 8541
Ion Ratio Lower Upper
78 100
77 26.1 19.3 28.9



#50
Toluene-d8
Concen: 45.847 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 98 Resp: 500259
Ion Ratio Lower Upper
98 100
100 64.9 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 0.430 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

Instrument :

MSVOA_X

ClientSampleId :

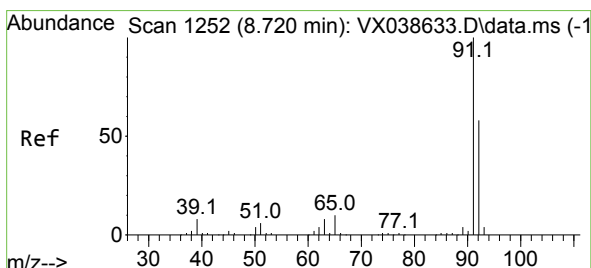
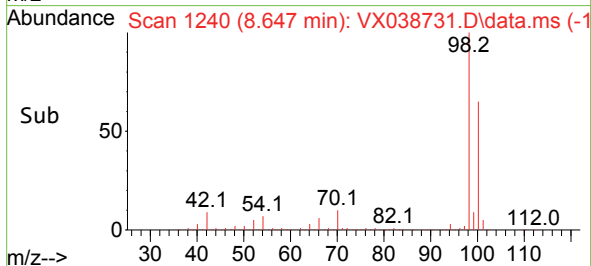
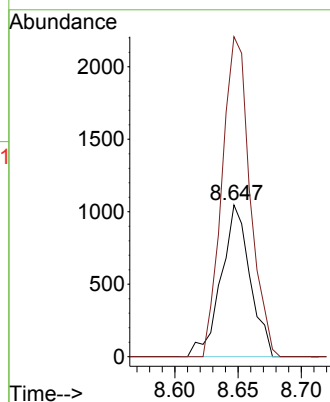
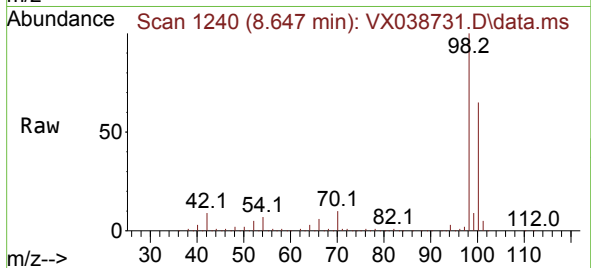
MW-08

Tgt Ion: 43 Resp: 1665

Ion Ratio Lower Upper

43 100

58 204.5 30.4 45.6#



#52

Toluene

Concen: 0.963 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX038731.D

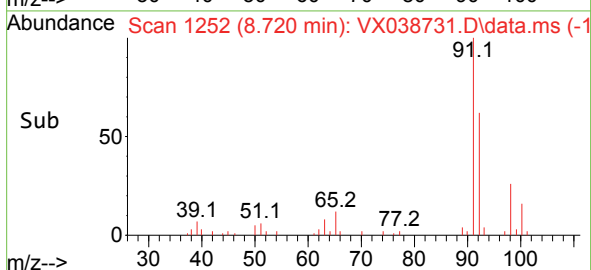
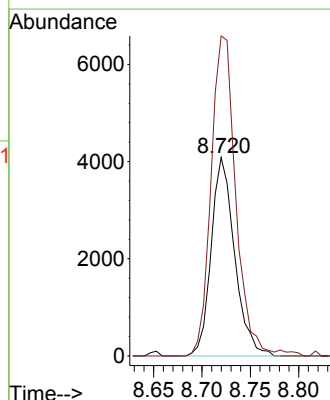
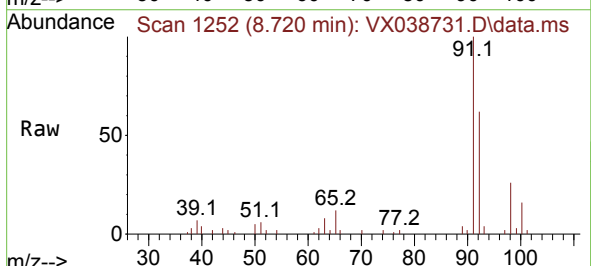
Acq: 10 Nov 2023 16:11

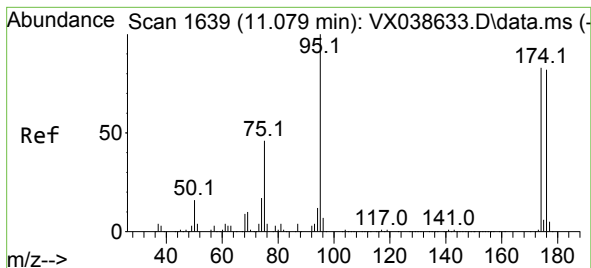
Tgt Ion: 92 Resp: 6885

Ion Ratio Lower Upper

92 100

91 169.3 134.2 201.2

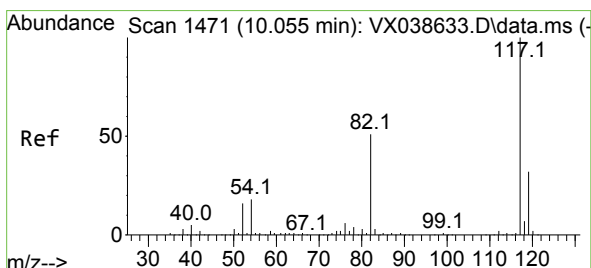
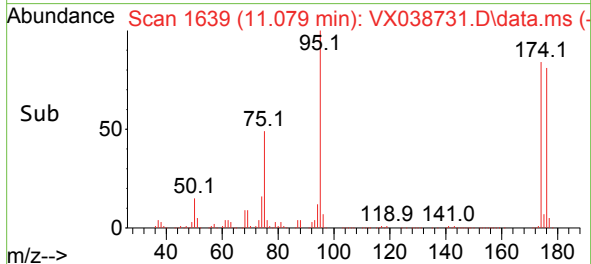
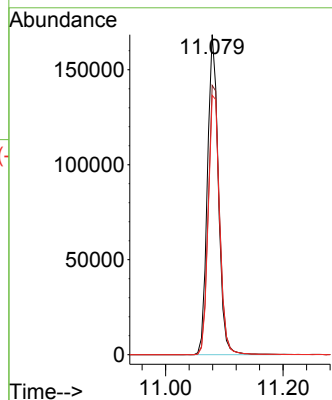
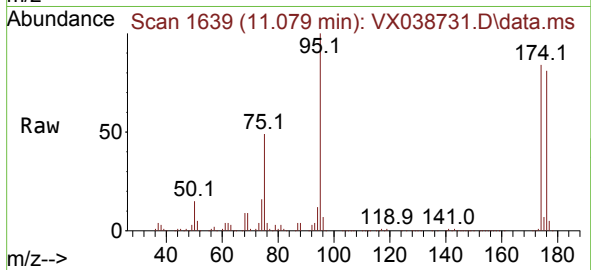




#62
4-Bromofluorobenzene
Concen: 51.425 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

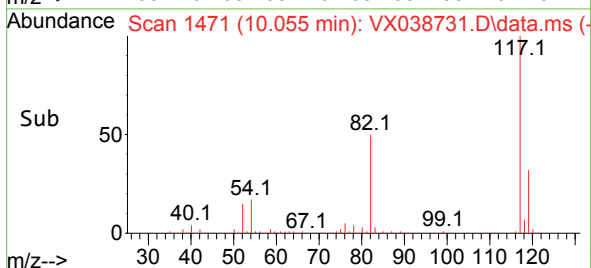
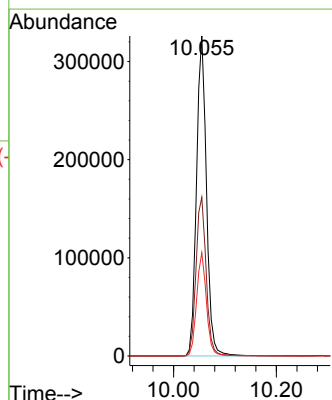
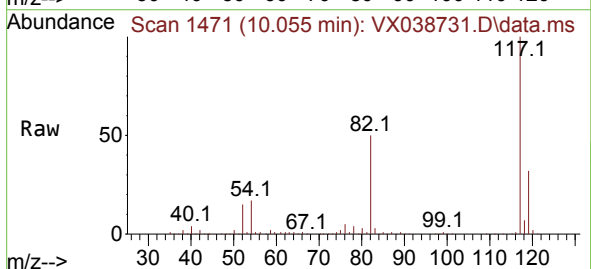
Instrument :
MSVOA_X
ClientSampleId :
MW-08

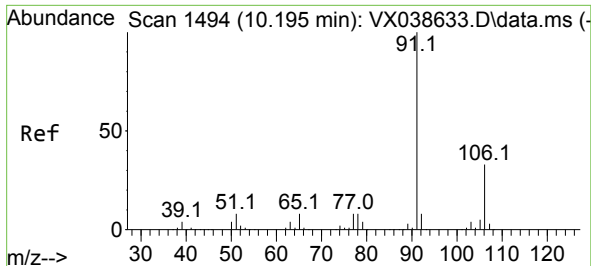
Tgt Ion: 95 Resp: 217555
Ion Ratio Lower Upper
95 100
174 87.8 0.0 135.6
176 84.5 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 117 Resp: 440131
Ion Ratio Lower Upper
117 100
82 49.6 46.2 69.4
119 32.3 25.5 38.3

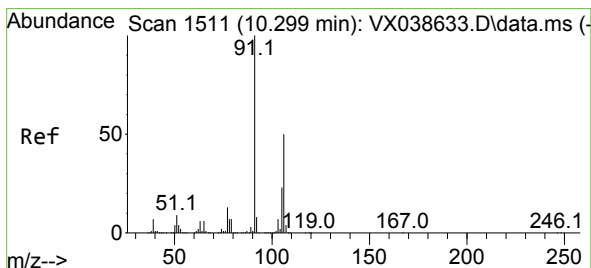
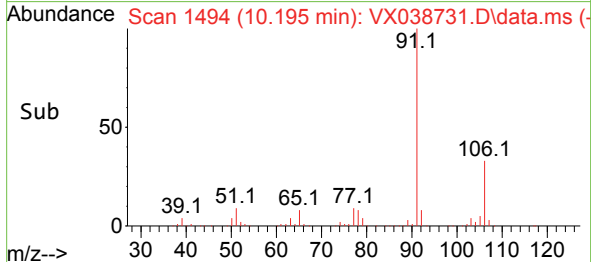
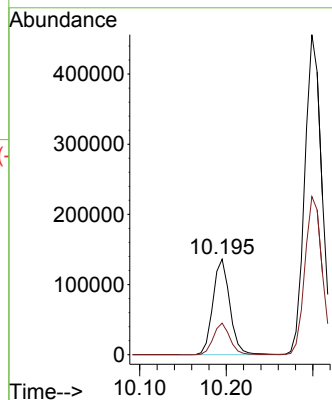
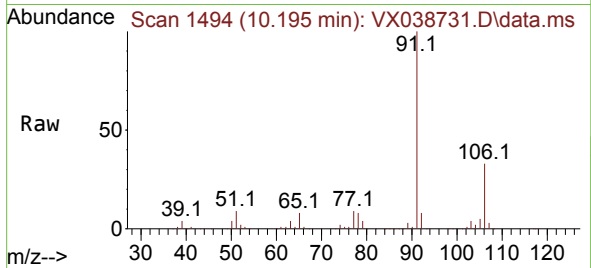




#67
Ethyl Benzene
Concen: 12.190 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

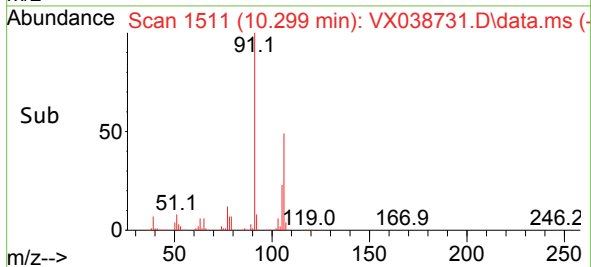
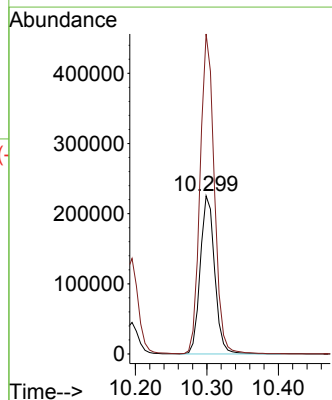
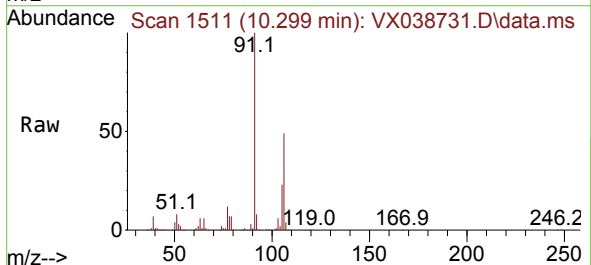
Instrument :
MSVOA_X
ClientSampleId :
MW-08

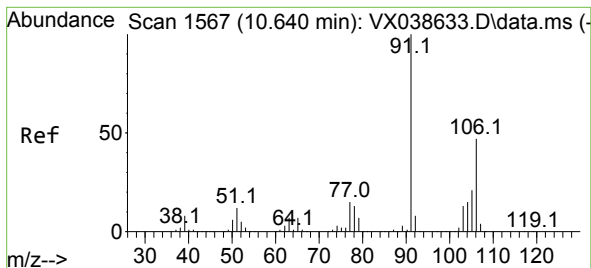
Tgt Ion: 91 Resp: 184745
Ion Ratio Lower Upper
91 100
106 33.0 24.9 37.3



#68
m/p-Xylenes
Concen: 52.341 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 106 Resp: 314827
Ion Ratio Lower Upper
106 100
91 199.7 165.5 248.3





#69

o-Xylene

Concen: 28.506 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

Instrument :

MSVOA_X

ClientSampleId :

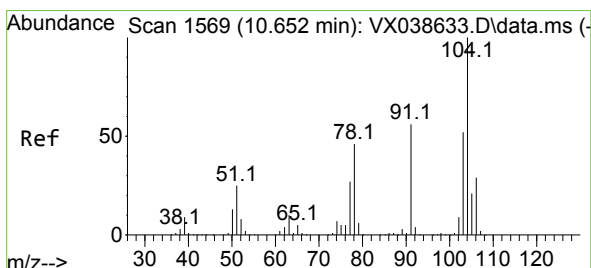
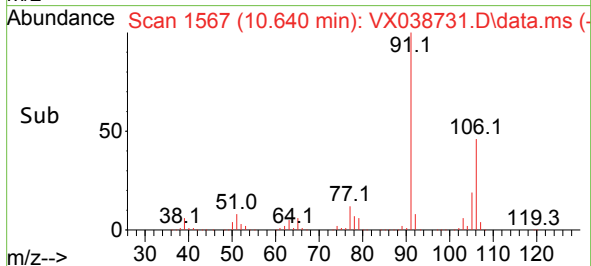
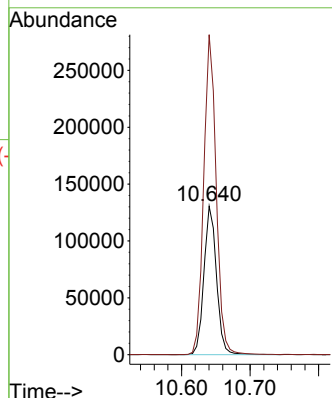
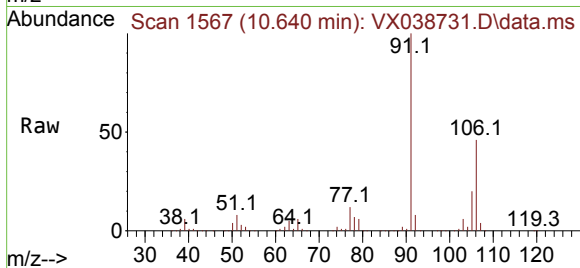
MW-08

Tgt Ion:106 Resp: 166740

Ion Ratio Lower Upper

106 100

91 214.2 108.9 326.8



#70

Styrene

Concen: 0.888 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.012 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

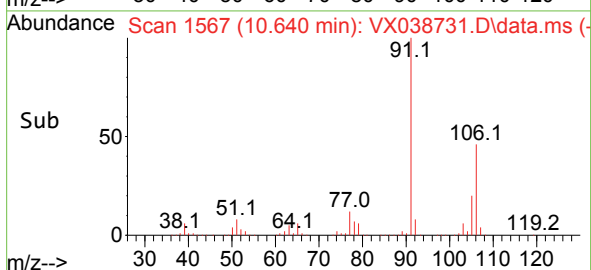
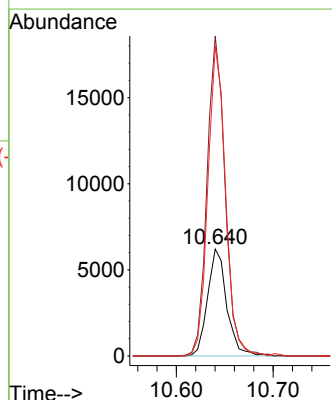
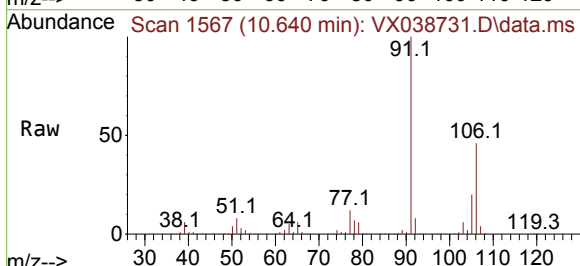
Tgt Ion:104 Resp: 8573

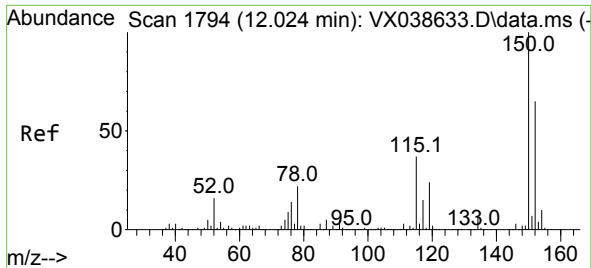
Ion Ratio Lower Upper

104 100

78 281.7 43.6 65.4#

103 268.4 43.6 65.4#

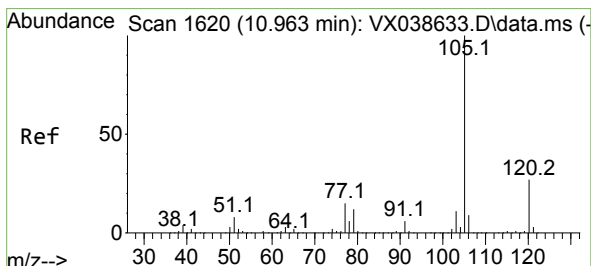
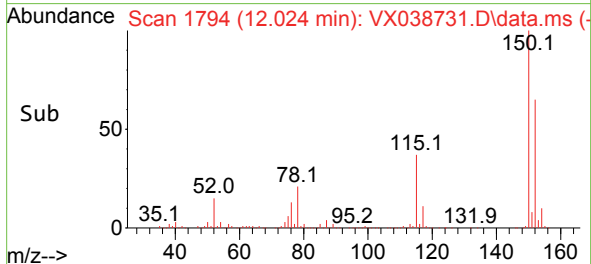
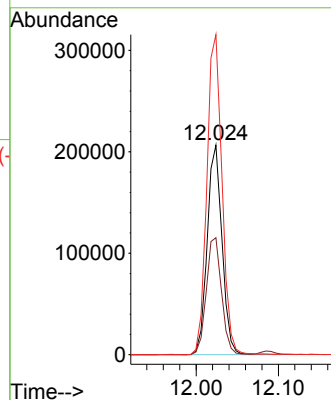
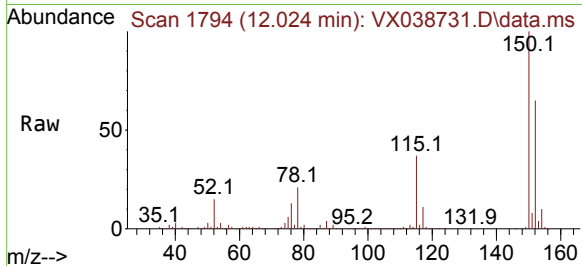




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

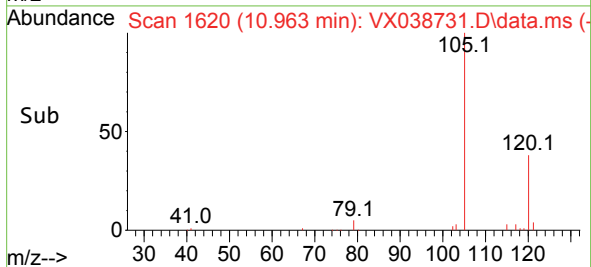
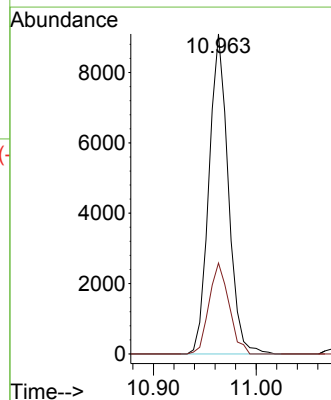
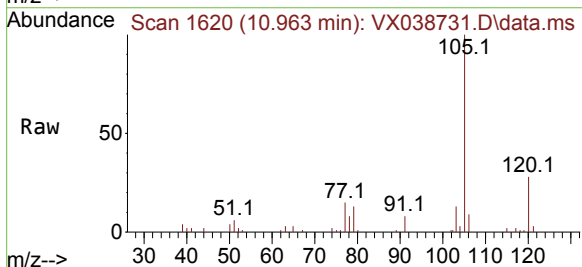
Instrument :
MSVOA_X
ClientSampleId :
MW-08

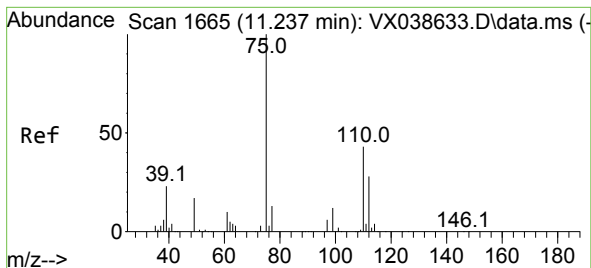
Tgt Ion:152 Resp: 258750
Ion Ratio Lower Upper
152 100
115 57.5 43.3 129.9
150 155.9 0.0 345.0



#73
Isopropylbenzene
Concen: 0.747 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion:105 Resp: 11859
Ion Ratio Lower Upper
105 100
120 29.4 12.9 38.6





#76

1,2,3-Trichloropropane

Concen: 20.554 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

Instrument :

MSVOA_X

ClientSampleId :

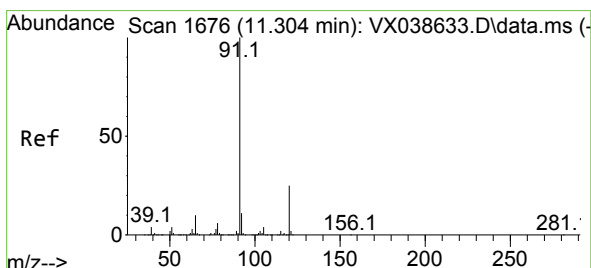
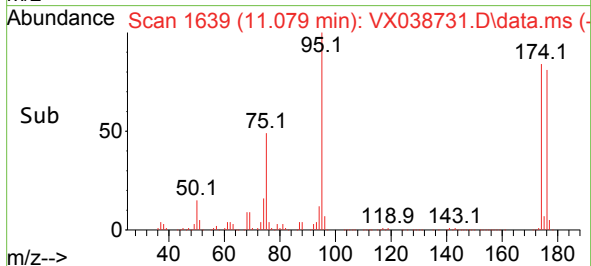
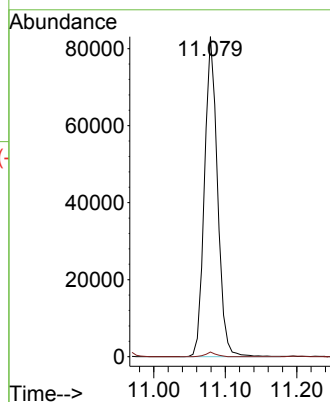
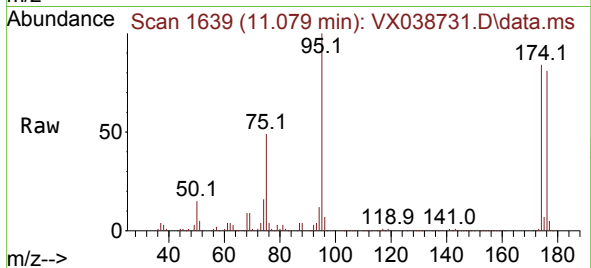
MW-08

Tgt Ion: 75 Resp: 105331

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#78

n-propylbenzene

Concen: 1.490 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX038731.D

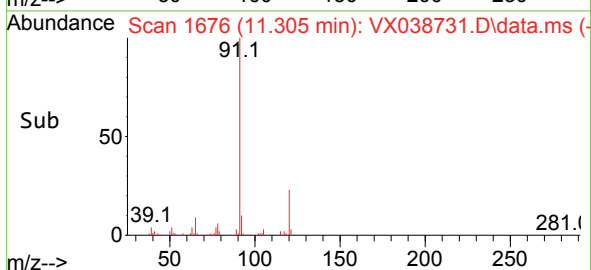
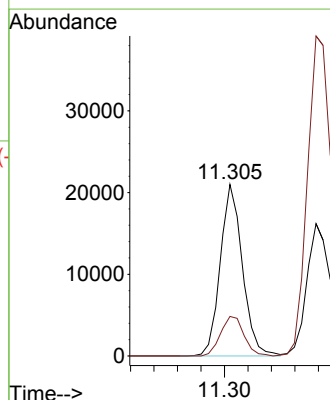
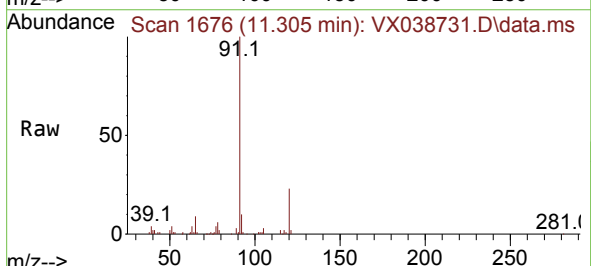
Acq: 10 Nov 2023 16:11

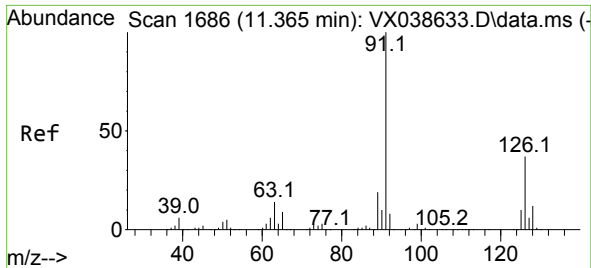
Tgt Ion: 91 Resp: 27531

Ion Ratio Lower Upper

91 100

120 24.3 11.5 34.4

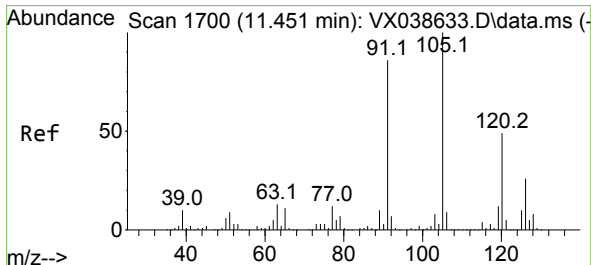
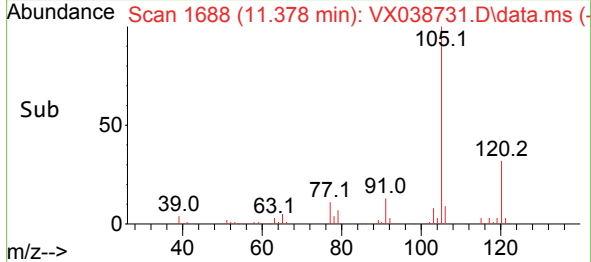
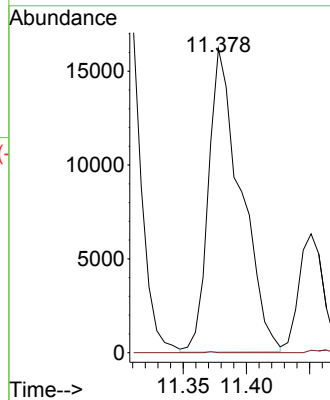
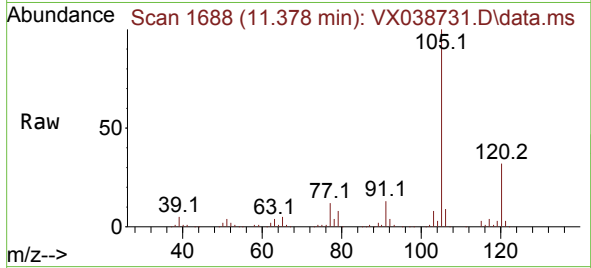




#79
2-Chlorotoluene
Concen: 2.602 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.012 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

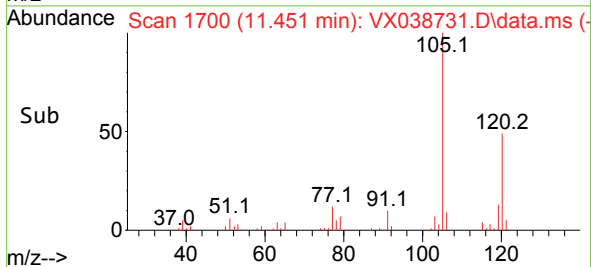
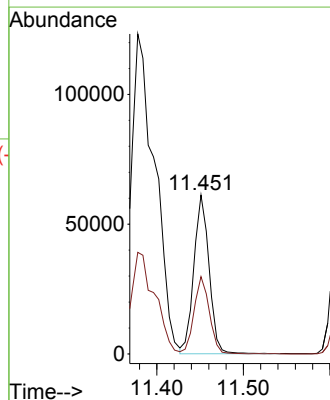
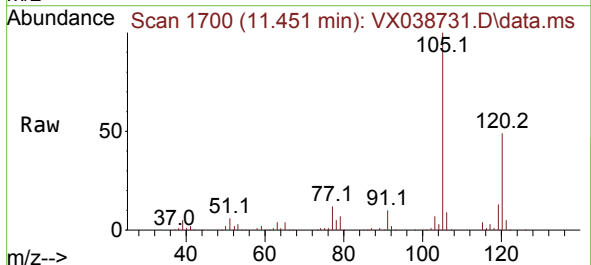
Instrument :
MSVOA_X
ClientSampleId :
MW-08

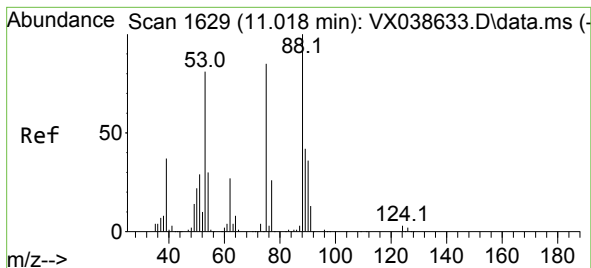
Tgt Ion: 91 Resp: 28777
Ion Ratio Lower Upper
91 100
126 0.1 16.3 48.8#



#80
1,3,5-Trimethylbenzene
Concen: 5.464 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 105 Resp: 74652
Ion Ratio Lower Upper
105 100
120 48.7 24.1 72.3

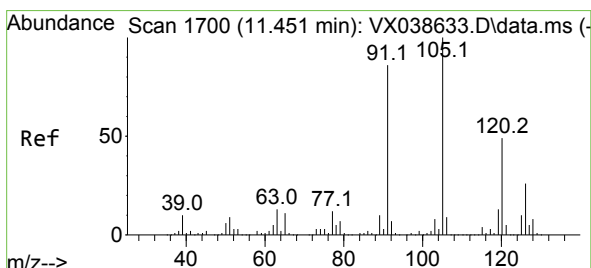
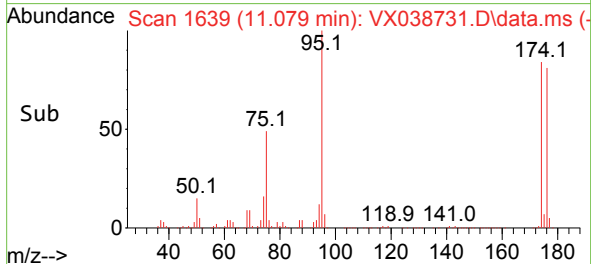
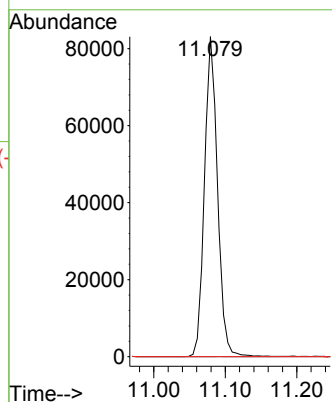
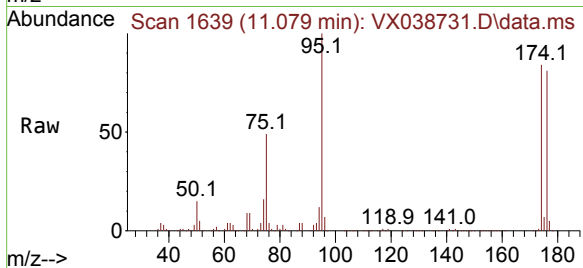




#81
trans-1,4-Dichloro-2-butene
Concen: 62.629 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

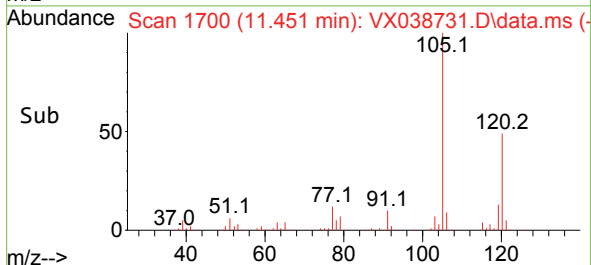
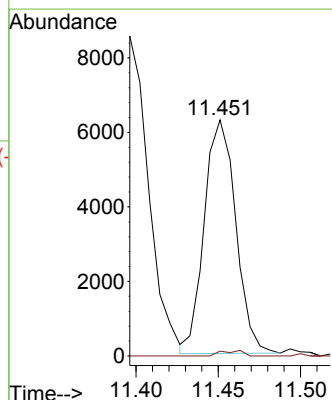
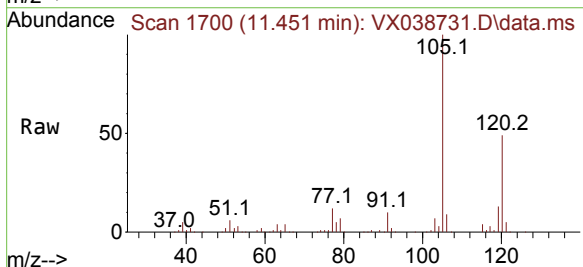
Instrument :
MSVOA_X
ClientSampleId :
MW-08

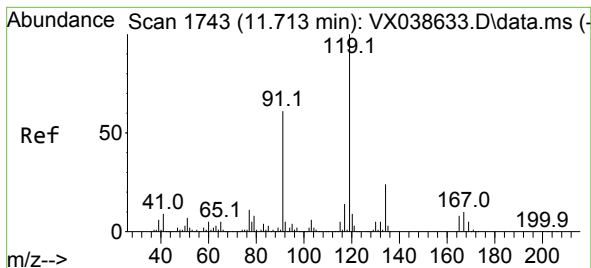
Tgt Ion: 75 Resp: 105331
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#



#82
4-Chlorotoluene
Concen: 0.647 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Tgt Ion: 91 Resp: 8361
Ion Ratio Lower Upper
91 100
126 1.6 14.2 42.6#





#83

tert-Butylbenzene

Concen: 2.712 ug/l

RT: 11.750 min Scan# 11

Delta R.T. 0.037 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

Instrument :

MSVOA_X

ClientSampleId :

MW-08

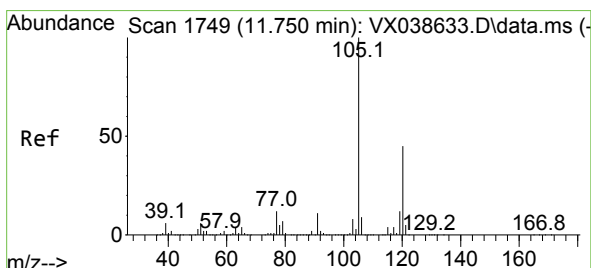
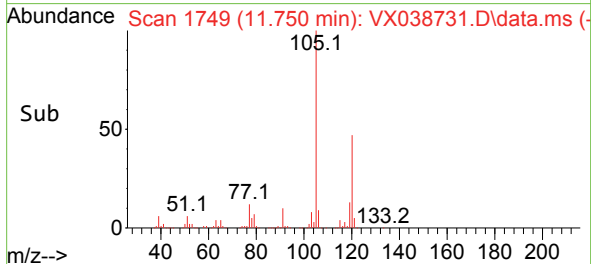
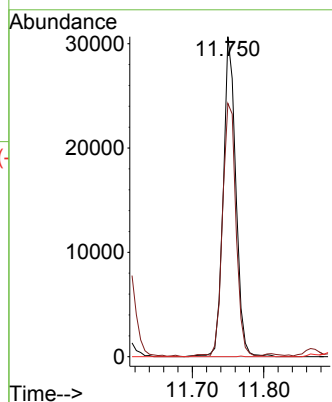
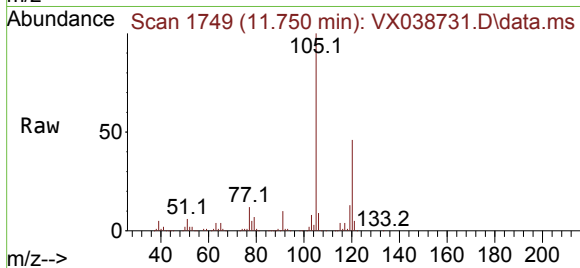
Tgt Ion:119 Resp: 37548

Ion Ratio Lower Upper

119 100

91 85.1 31.2 93.6

134 0.0 11.7 35.0#



#84

1,2,4-Trimethylbenzene

Concen: 22.612 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX038731.D

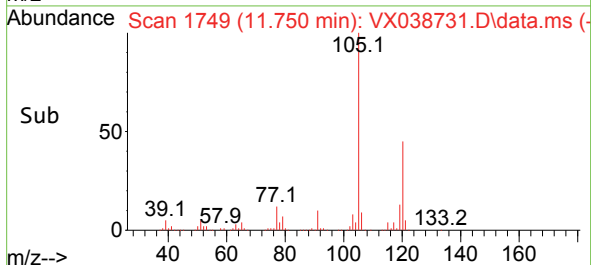
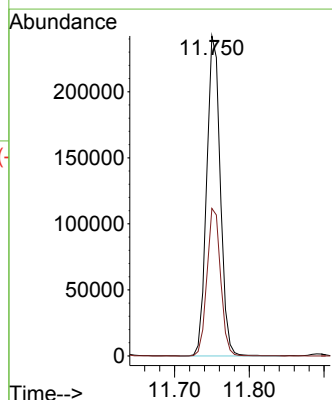
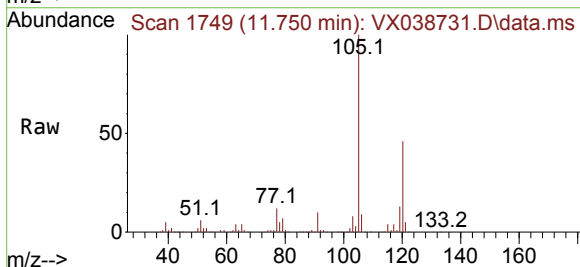
Acq: 10 Nov 2023 16:11

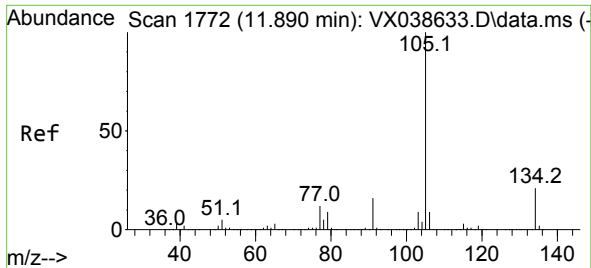
Tgt Ion:105 Resp: 306408

Ion Ratio Lower Upper

105 100

120 46.2 21.2 63.6

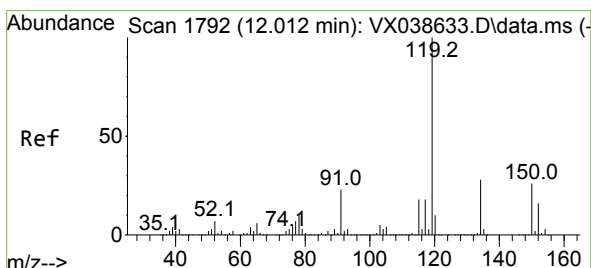
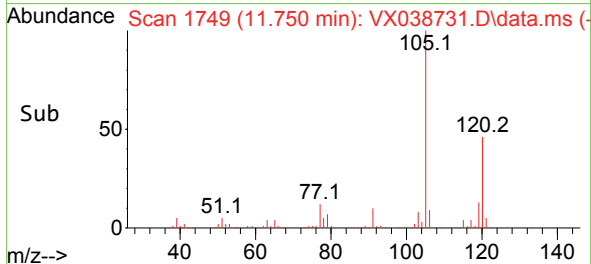
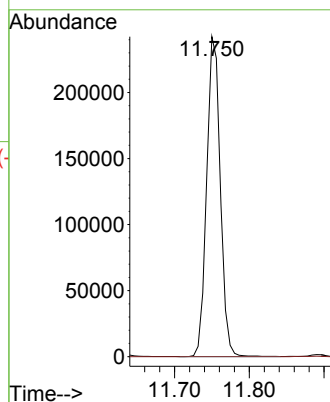
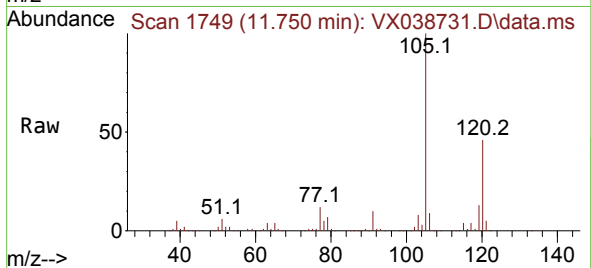




#85
 sec-Butylbenzene
 Concen: 17.738 ug/l
 RT: 11.750 min Scan# 1749
 Delta R.T. -0.140 min
 Lab File: VX038731.D
 Acq: 10 Nov 2023 16:11

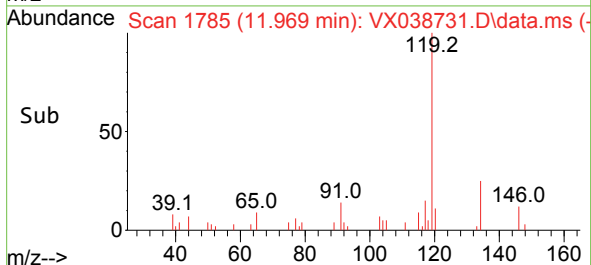
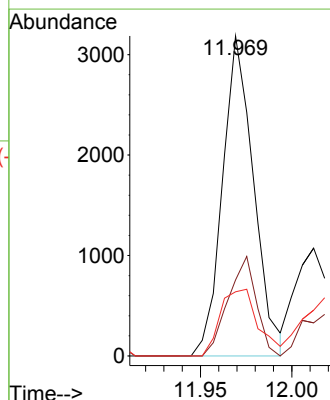
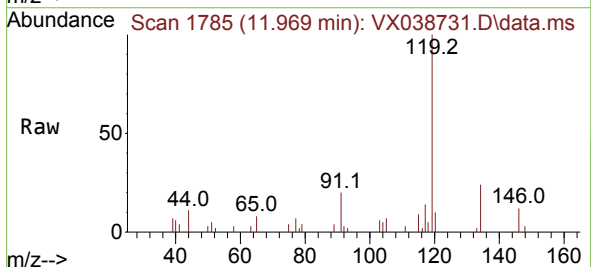
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-08

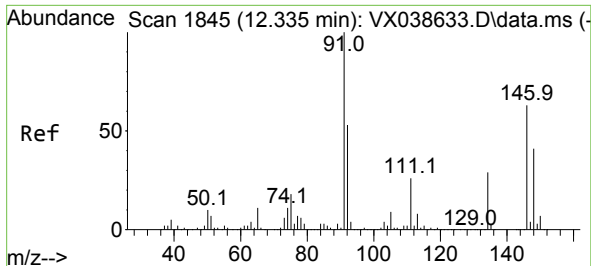
Tgt Ion:105 Resp: 306408
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#



#86
 p-Isopropyltoluene
 Concen: 0.257 ug/l
 RT: 11.969 min Scan# 1785
 Delta R.T. -0.042 min
 Lab File: VX038731.D
 Acq: 10 Nov 2023 16:11

Tgt Ion:119 Resp: 3775
 Ion Ratio Lower Upper
 119 100
 134 28.2 12.8 38.3
 91 25.4 13.1 39.3





#89

n-Butylbenzene

Concen: 0.464 ug/l

RT: 12.323 min Scan# 11

Delta R.T. -0.012 min

Lab File: VX038731.D

Acq: 10 Nov 2023 16:11

Instrument :

MSVOA_X

ClientSampleId :

MW-08

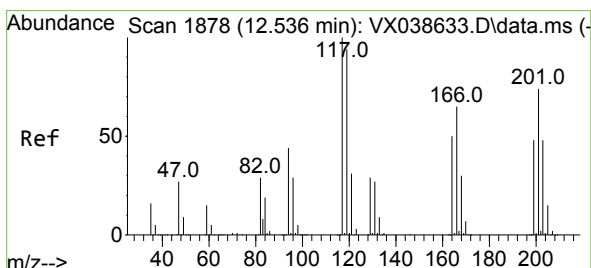
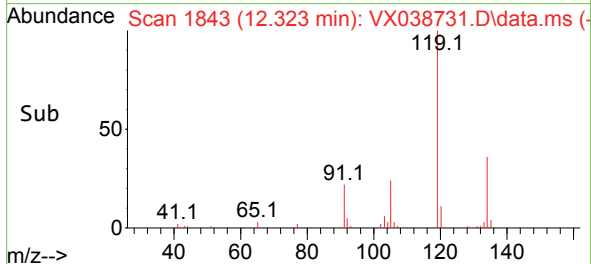
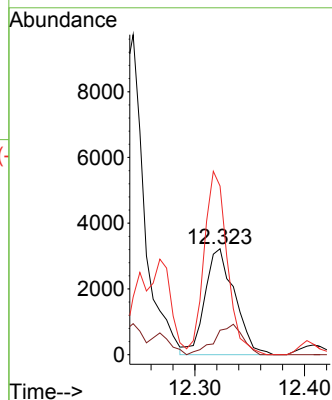
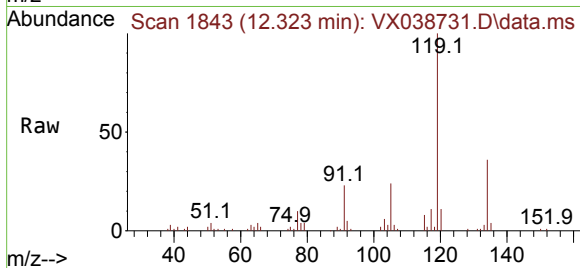
Tgt Ion: 91 Resp: 6082

Ion Ratio Lower Upper

91 100

92 26.9 27.4 82.0#

134 134.0 12.6 37.8#



#90

Hexachloroethane

Concen: 0.735 ug/l

RT: 12.530 min Scan# 1877

Delta R.T. -0.006 min

Lab File: VX038731.D

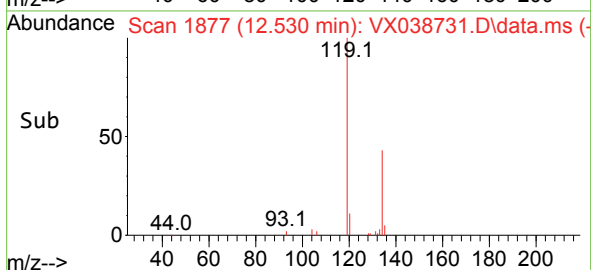
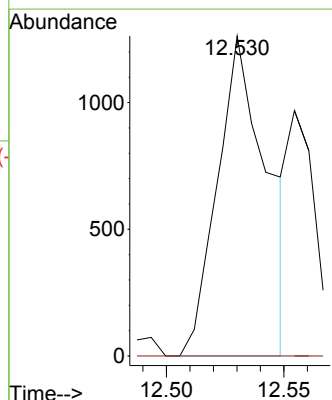
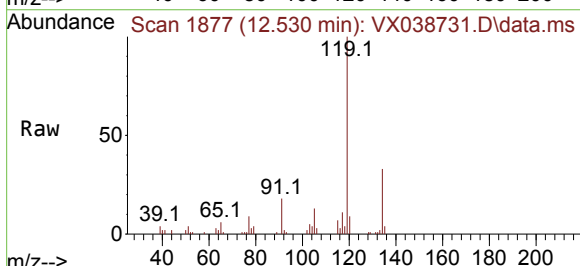
Acq: 10 Nov 2023 16:11

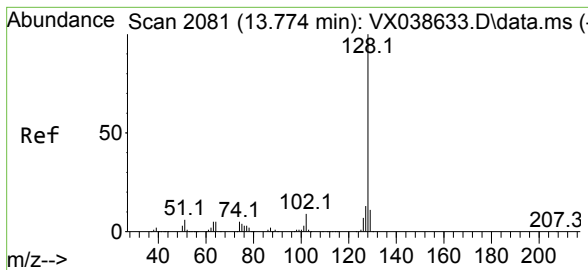
Tgt Ion: 117 Resp: 1833

Ion Ratio Lower Upper

117 100

201 0.0 32.9 98.6#





#95
Naphthalene
Concen: 6.768 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX038731.D
Acq: 10 Nov 2023 16:11

Instrument :
MSVOA_X
ClientSampleId :
MW-08

Tgt Ion:	128	Resp:	118773
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.9	8.8	13.2

