

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102323\
 Data File : VX038424.D
 Acq On : 23 Oct 2023 11:59
 Operator : JC/MD
 Sample : 04991-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

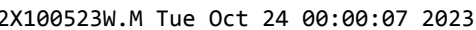
Quant Time: Oct 23 23:59:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 05 15:27:13 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	144743	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	261914	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	259185	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	137734	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	101683	43.676	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	87.360%		
35) Dibromofluoromethane	5.385	113	86791	45.988	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.980%		
50) Toluene-d8	8.647	98	321257	44.547	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	89.100%#		
62) 4-Bromofluorobenzene	11.079	95	121450	44.422	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.840%		
Target Compounds					Qvalue	
3) Chloromethane	1.295	50	322	0.226	ug/l #	43
5) Bromomethane	1.612	94	140	Below Cal	#	80
6) Chloroethane	1.697	64	49	Below Cal	#	43
11) Tert butyl alcohol	2.953	59	1590	Below Cal	#	82
13) Acrolein	2.239	56	435	1.314	ug/l #	59
15) Acrylonitrile	3.087	53	258	0.244	ug/l #	17
16) Acetone	2.374	43	147032	151.325	ug/l	92
17) Carbon Disulfide	2.514	76	1658	0.434	ug/l	98
20) Methylene Chloride	2.788	84	2033	1.112	ug/l	86
21) trans-1,2-Dichloroethene	3.093	96	556	0.339	ug/l #	69
25) 2-Butanone	4.556	43	75998	48.477	ug/l #	90
31) Cyclohexane	5.550	56	3630	1.439	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	12087	4.644	ug/l #	51
37) Ethyl Acetate	4.556	43	75998	24.588	ug/l #	69
38) Carbon Tetrachloride	5.556	117	15254	5.958	ug/l #	15
49) 1,4-Dioxane	7.678	88	1011	18.626	ug/l #	92
51) 4-Methyl-2-Pentanone	8.580	43	1316	0.413	ug/l	92
52) Toluene	8.720	92	1302	0.275	ug/l	82
68) m/p-Xylenes	10.305	106	1250	0.334	ug/l	93
69) o-Xylene	10.640	106	796	0.218	ug/l	88
74) N-amyl acetate	10.768	43	4857	1.231	ug/l #	25
76) 1,2,3-Trichloropropane	11.079	75	66273	21.165	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	66273	60.849	ug/l #	5
84) 1,2,4-Trimethylbenzene	11.750	105	1844	0.232	ug/l	88
93) 1,2,4-Trichlorobenzene	13.591	180	703	0.241	ug/l	77
94) Hexachlorobutadiene	13.725	225	489	0.416	ug/l	91
95) Naphthalene	13.780	128	2975	0.293	ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	772	0.273	ug/l	96

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

Quant Time: Oct 23 23:59:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100523W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 05 15:27:13 2023
Response via : Initial Calibration

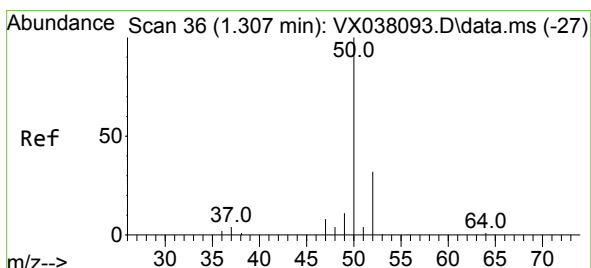
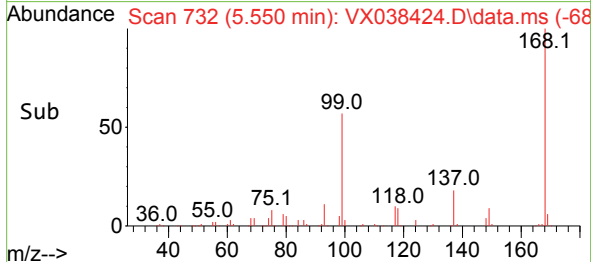
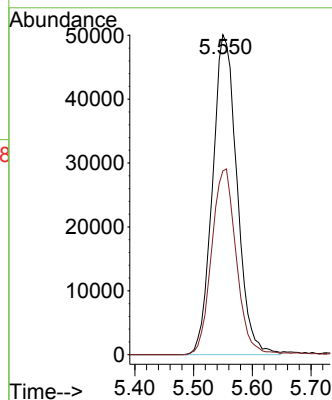
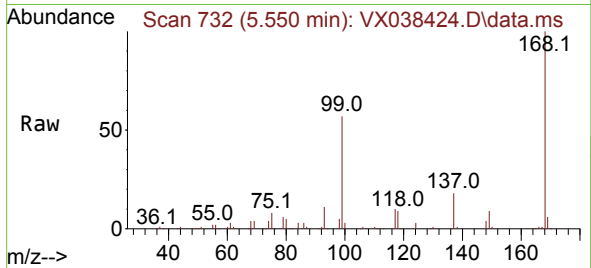




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

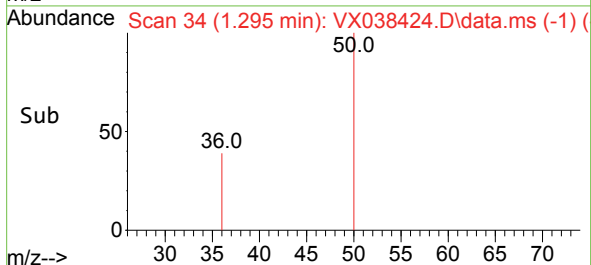
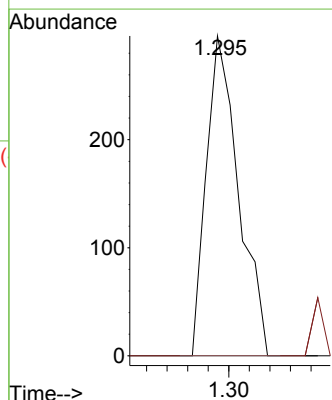
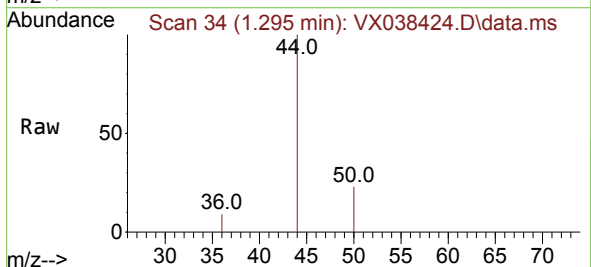
Instrument :
MSVOA_X
ClientSampleId :

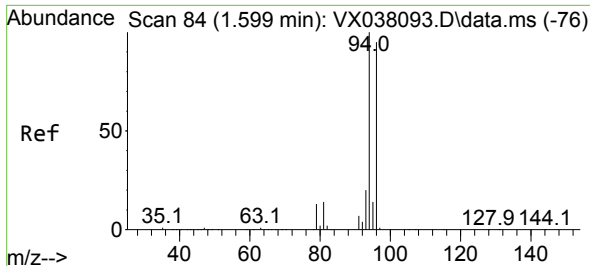
Tgt Ion:168 Resp: 144743
Ion Ratio Lower Upper
168 100
99 57.5 56.6 85.0



#3
Chloromethane
Concen: 0.226 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion: 50 Resp: 322
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#

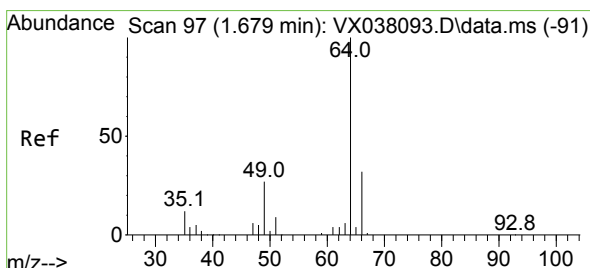
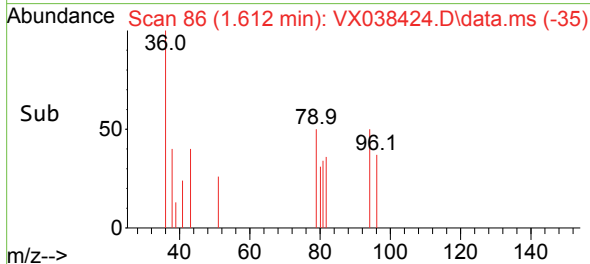
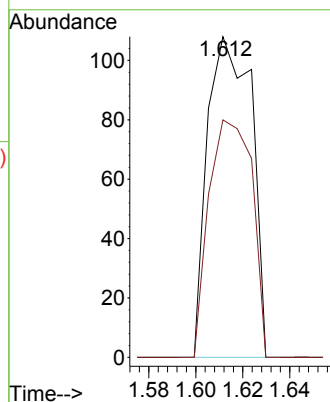
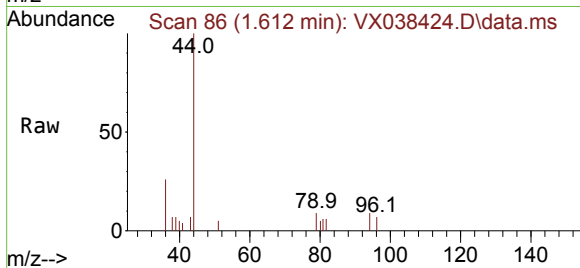




#5
Bromomethane
Concen: Below Cal
RT: 1.612 min Scan# 80
Delta R.T. 0.013 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

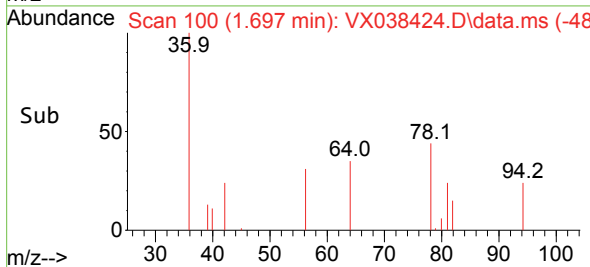
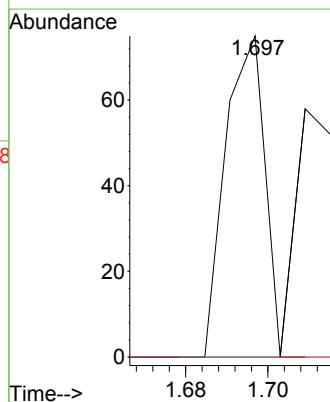
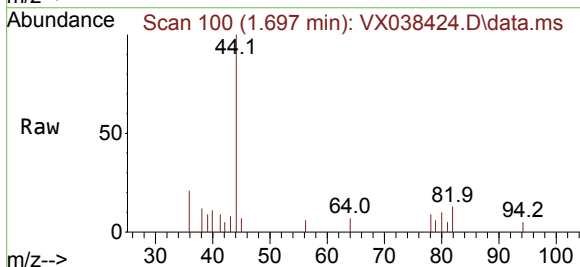
Instrument :
MSVOA_X
ClientSampleId :

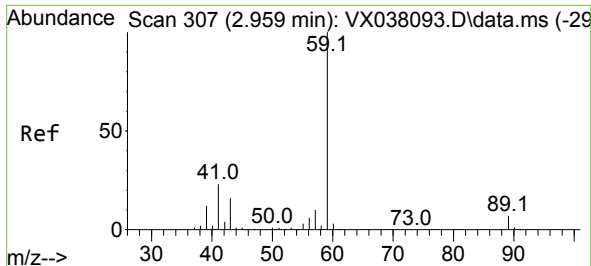
Tgt Ion: 94 Resp: 140
Ion Ratio Lower Upper
94 100
96 74.1 74.6 111.8#



#6
Chloroethane
Concen: Below Cal
RT: 1.697 min Scan# 100
Delta R.T. 0.018 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion: 64 Resp: 49
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#

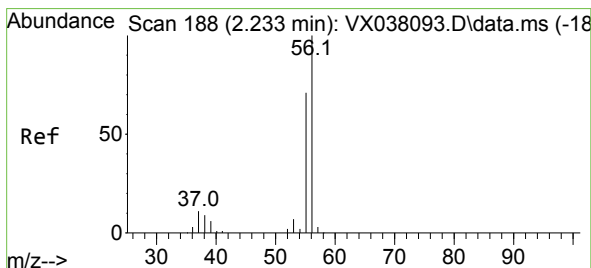
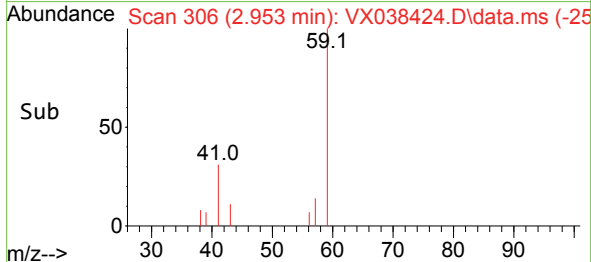
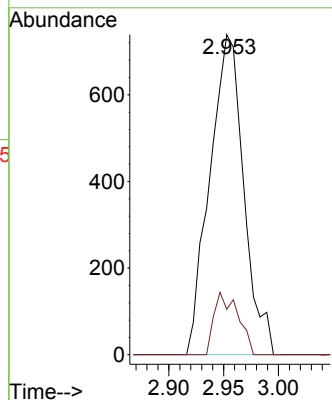
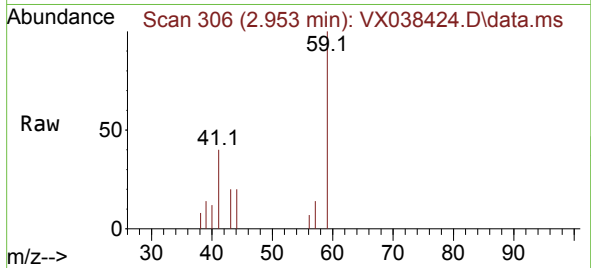




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.953 min Scan# 30
Delta R.T. -0.006 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

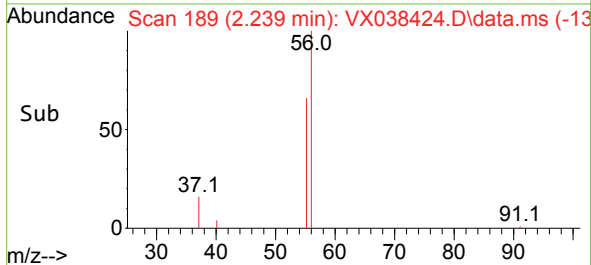
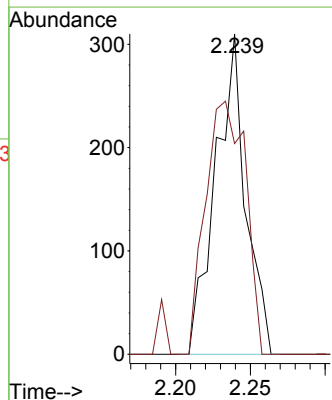
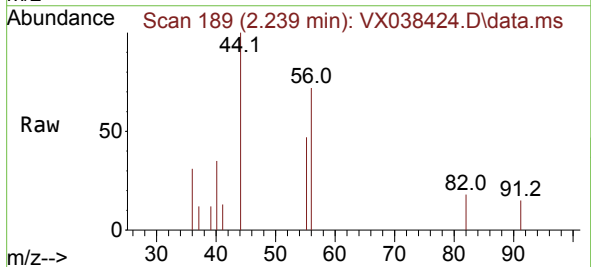
Instrument :
MSVOA_X
ClientSampleId :

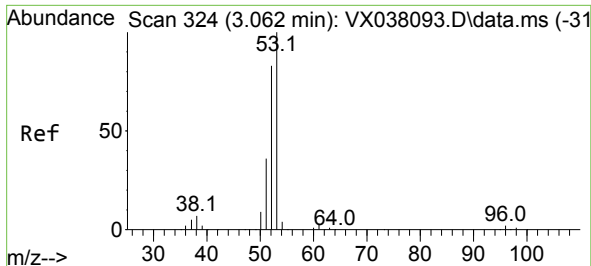
Tgt Ion: 59 Resp: 1590
Ion Ratio Lower Upper
59 100
57 13.7 6.0 9.0#



#13
Acrolein
Concen: 1.314 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.006 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

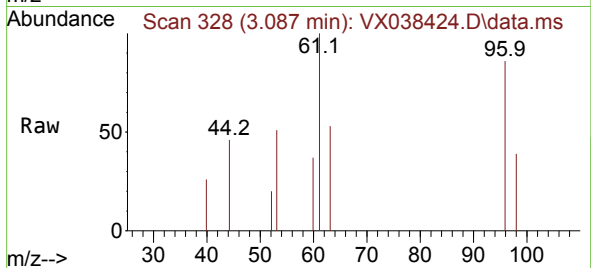
Tgt Ion: 56 Resp: 435
Ion Ratio Lower Upper
56 100
55 105.1 57.1 85.7#



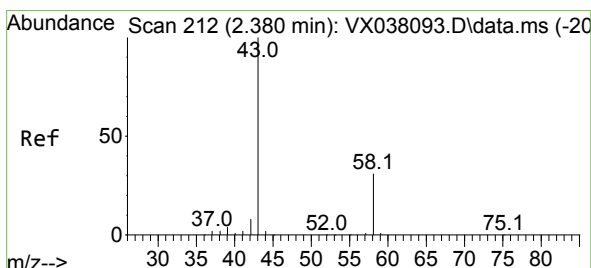
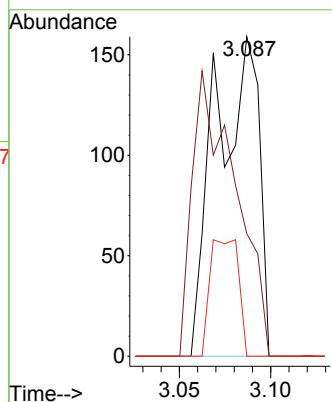
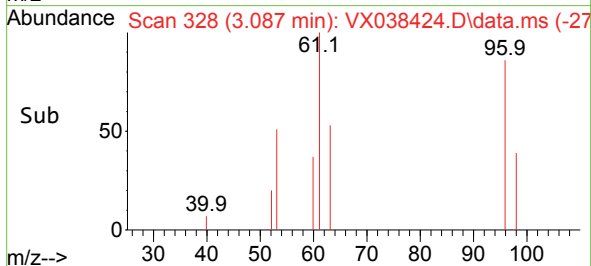


#15
Acrylonitrile
Concen: 0.244 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.025 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Instrument :
MSVOA_X
ClientSampleId :

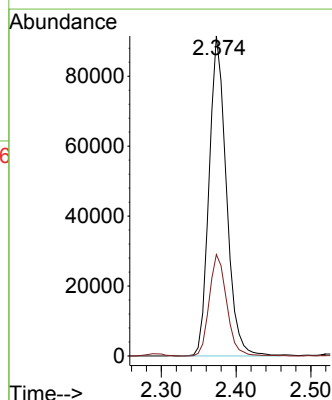
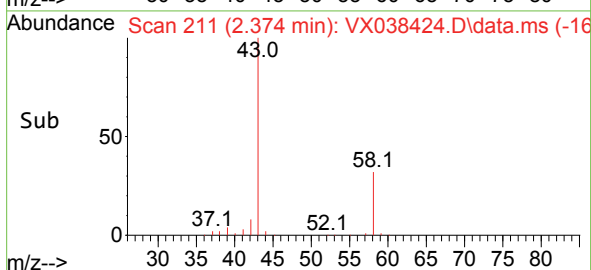
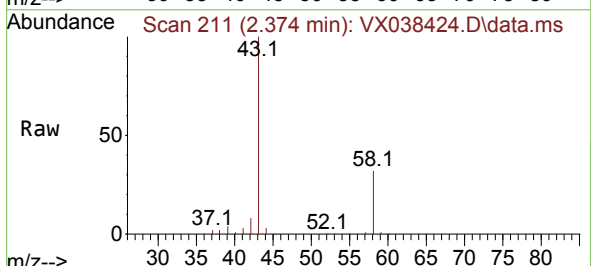


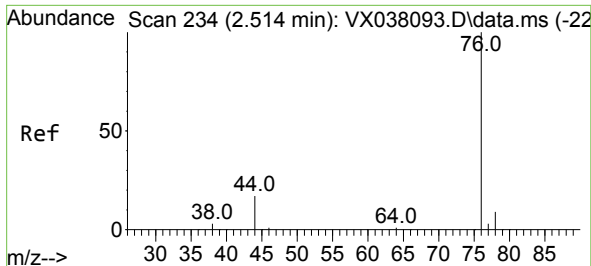
Tgt Ion: 53 Resp: 258
Ion Ratio Lower Upper
53 100
52 0.0 66.0 99.0#
51 0.0 29.8 44.6#



#16
Acetone
Concen: 151.325 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

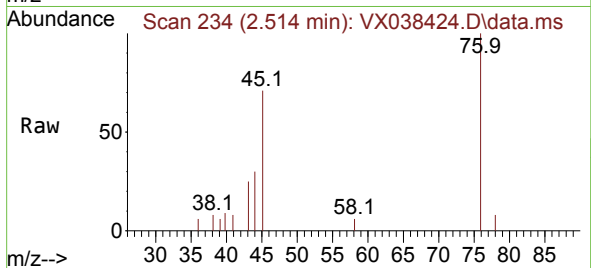
Tgt Ion: 43 Resp: 147032
Ion Ratio Lower Upper
43 100
58 31.7 21.9 32.9



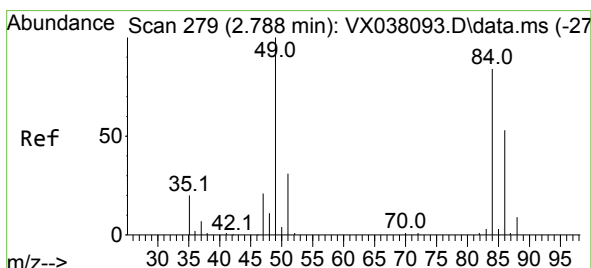
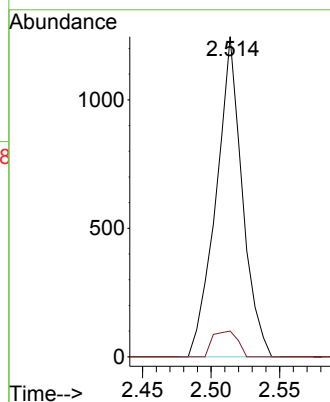
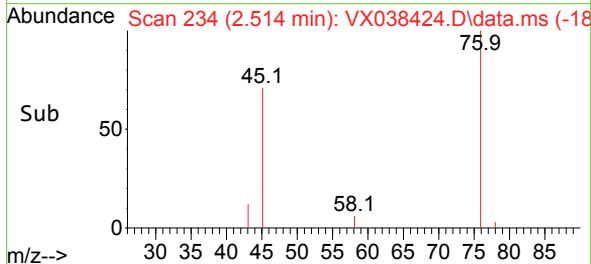


#17
Carbon Disulfide
Concen: 0.434 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Instrument :
MSVOA_X
ClientSampleId :

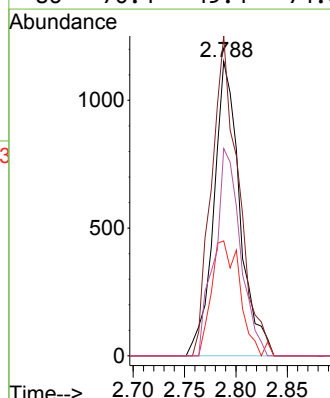
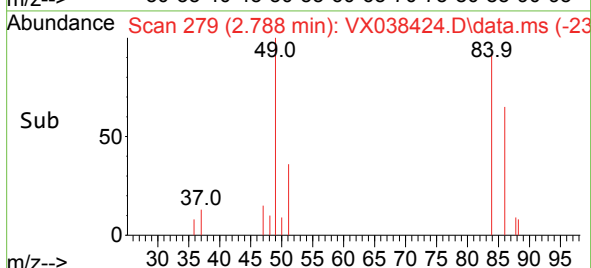
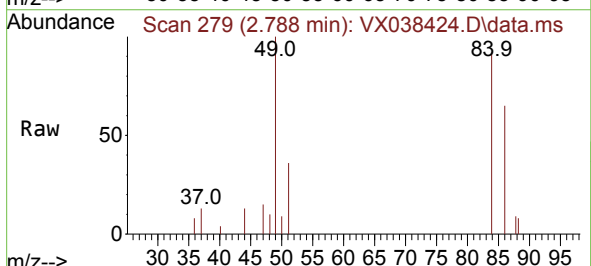


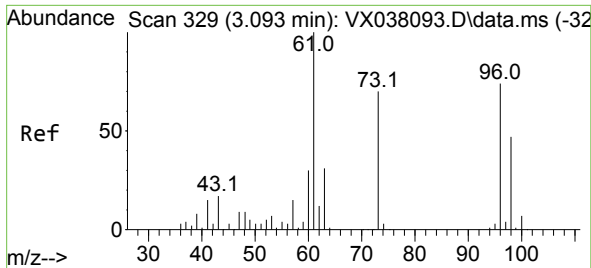
Tgt Ion: 76 Resp: 1658
Ion Ratio Lower Upper
76 100
78 8.0 7.0 10.6



#20
Methylene Chloride
Concen: 1.112 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

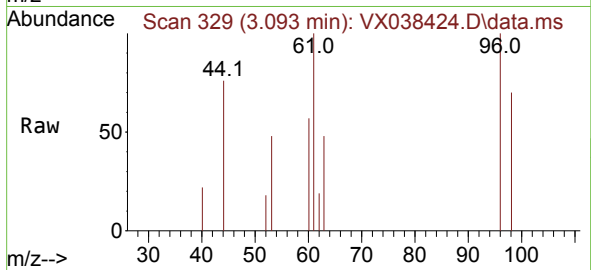
Tgt Ion: 84 Resp: 2033
Ion Ratio Lower Upper
84 100
49 108.7 103.6 155.4
51 39.1 33.8 50.6
86 70.4 49.4 74.0



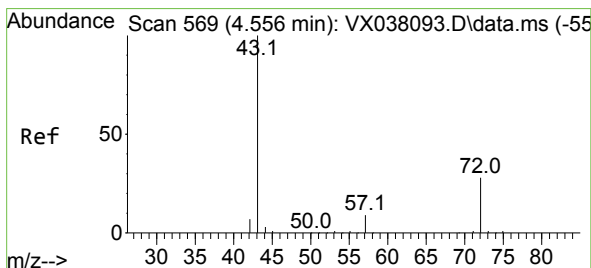
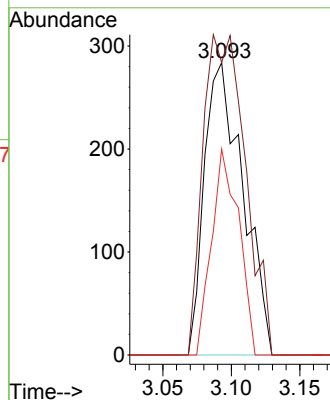
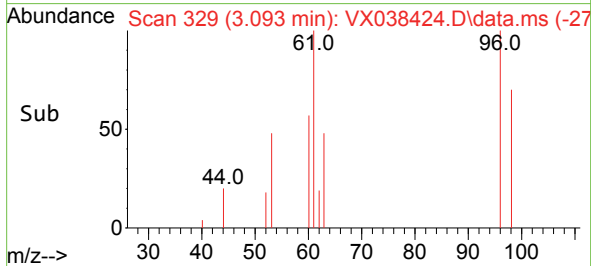


#21
trans-1,2-Dichloroethene
Concen: 0.339 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Instrument :
MSVOA_X
ClientSampleId :

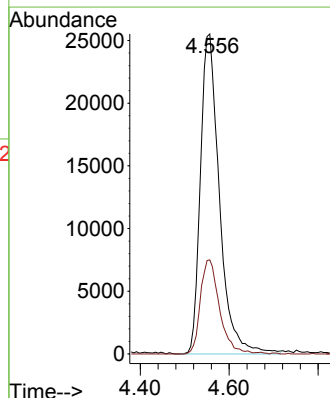
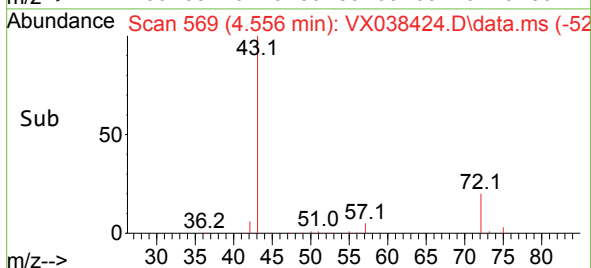
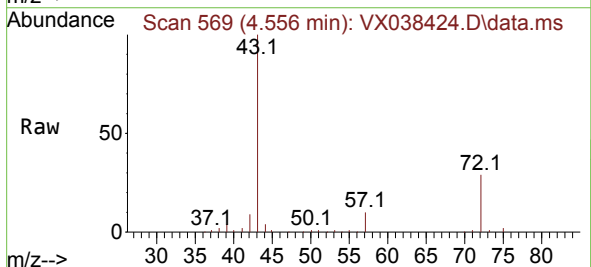


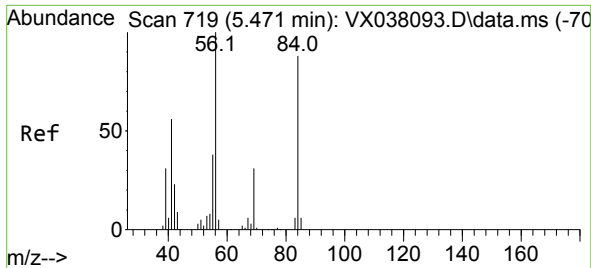
Tgt Ion: 96 Resp: 556
Ion Ratio Lower Upper
96 100
61 100.0 119.2 178.8#
98 70.4 48.7 73.1



#25
2-Butanone
Concen: 48.477 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

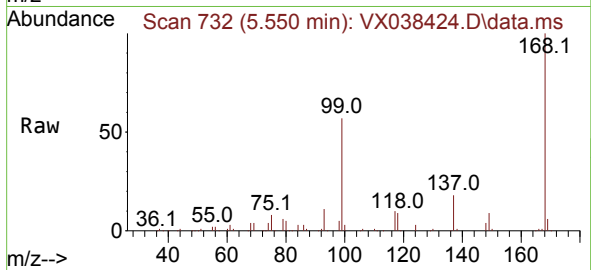
Tgt Ion: 43 Resp: 75998
Ion Ratio Lower Upper
43 100
72 29.4 19.4 29.2#



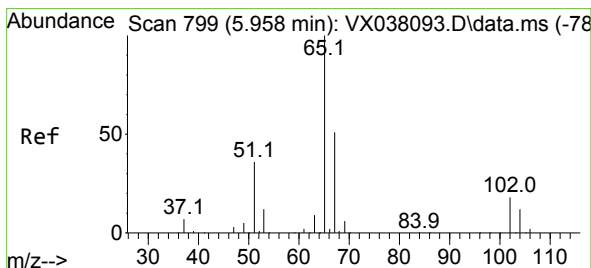
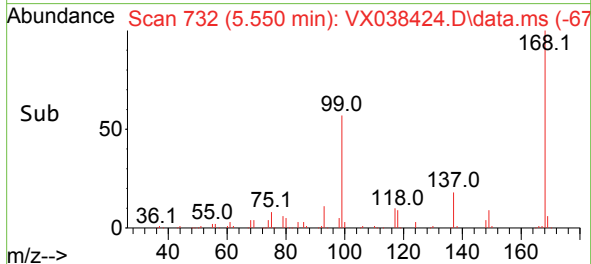
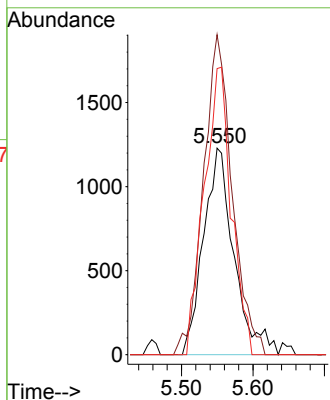


#31
Cyclohexane
Concen: 1.439 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Instrument :
MSVOA_X
ClientSampleId :

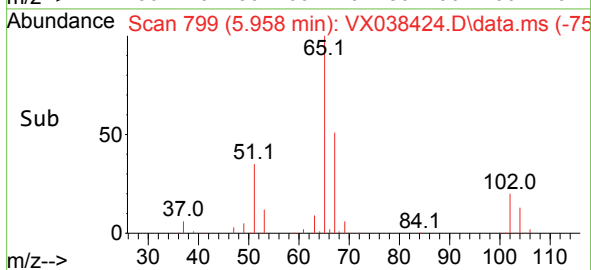
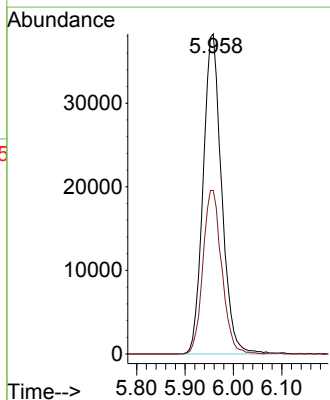
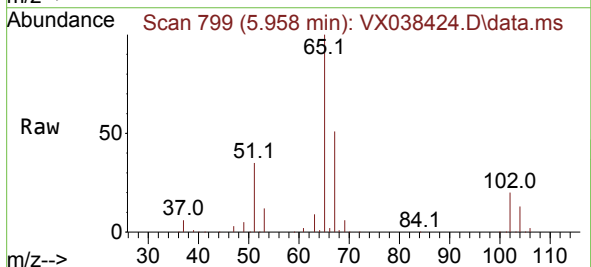


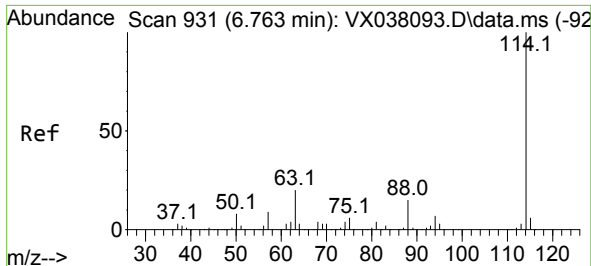
Tgt Ion: 56 Resp: 3630
Ion Ratio Lower Upper
56 100
69 154.9 23.4 35.2#
84 138.5 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 43.676 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion: 65 Resp: 101683
Ion Ratio Lower Upper
65 100
67 52.0 0.0 100.2

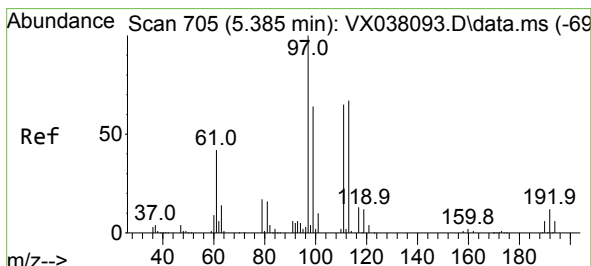
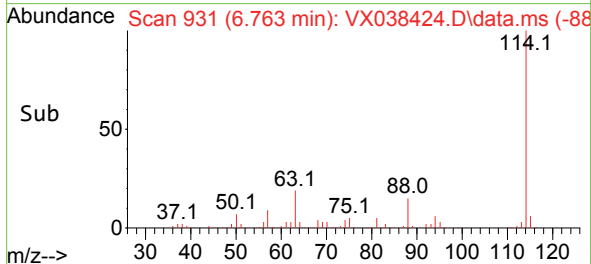
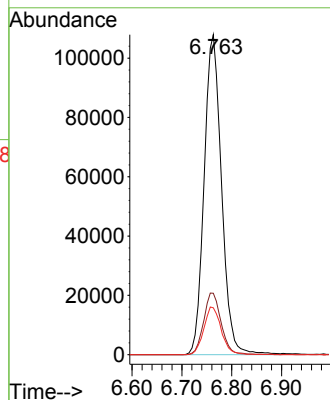
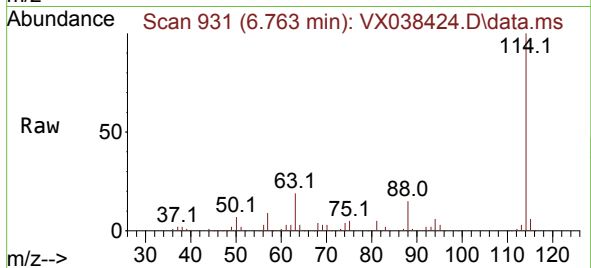




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

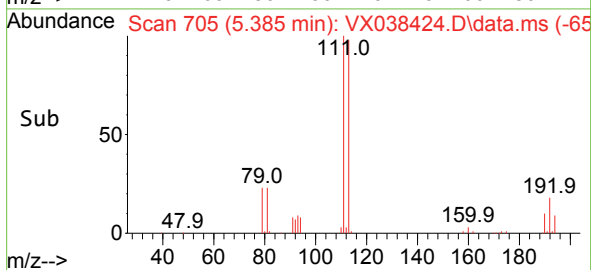
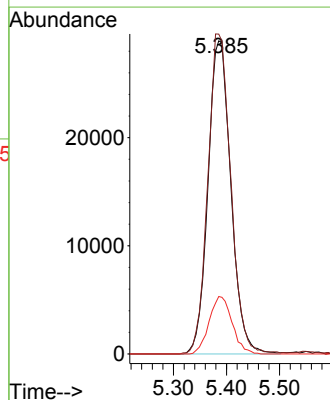
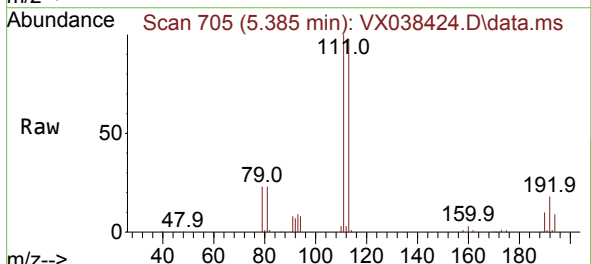
Instrument :
MSVOA_X
ClientSampleId :

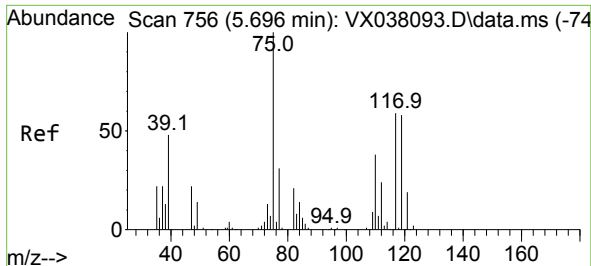
Tgt Ion:114 Resp: 261914
Ion Ratio Lower Upper
114 100
63 19.2 0.0 45.0
88 14.7 0.0 36.6



#35
Dibromofluoromethane
Concen: 45.988 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion:113 Resp: 86791
Ion Ratio Lower Upper
113 100
111 102.7 82.9 124.3
192 18.4 13.3 19.9

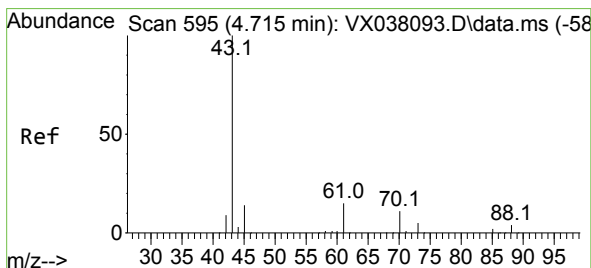
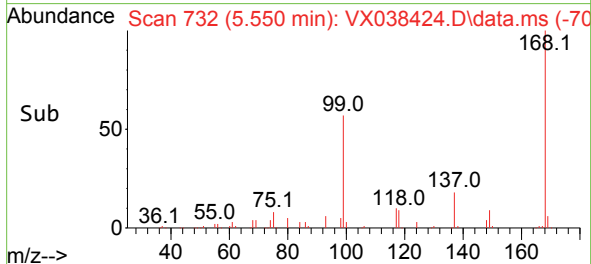
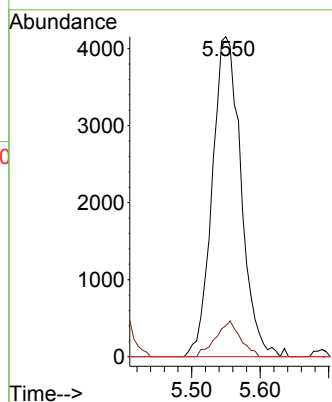
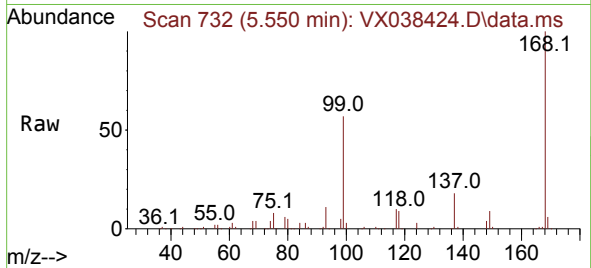




#36
1,1-Dichloropropene
Concen: 4.644 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

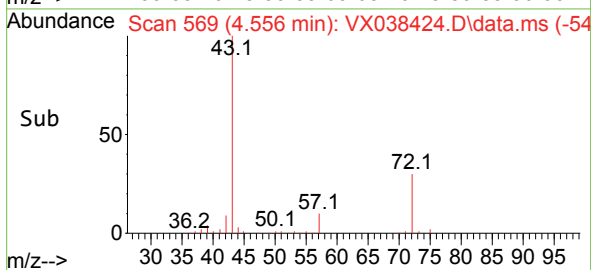
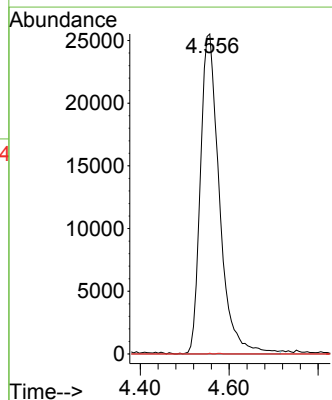
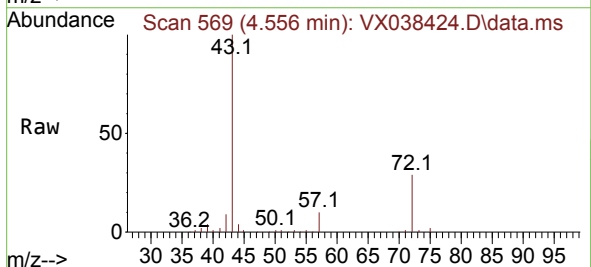
Instrument :
MSVOA_X
ClientSampleId :

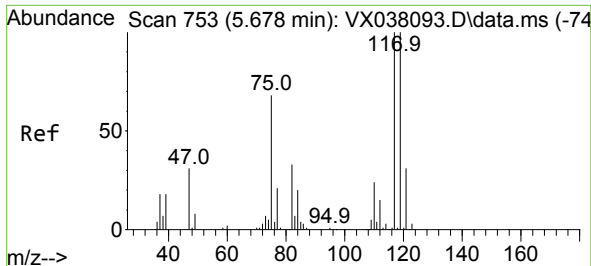
Tgt Ion: 75 Resp: 12087
Ion Ratio Lower Upper
75 100
110 9.6 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 24.588 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.159 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

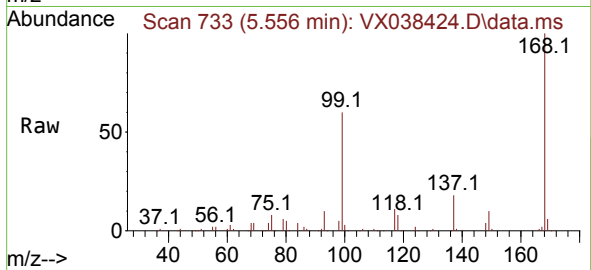
Tgt Ion: 43 Resp: 75998
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 0.0 8.3 12.5#



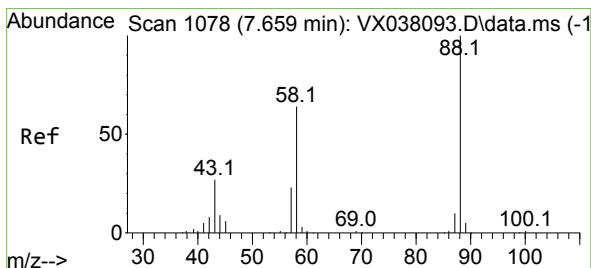
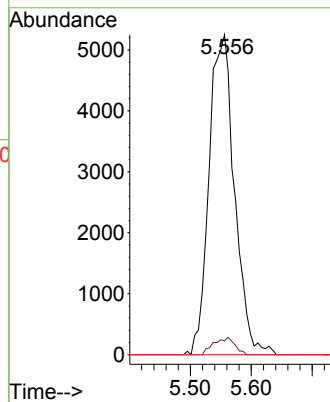
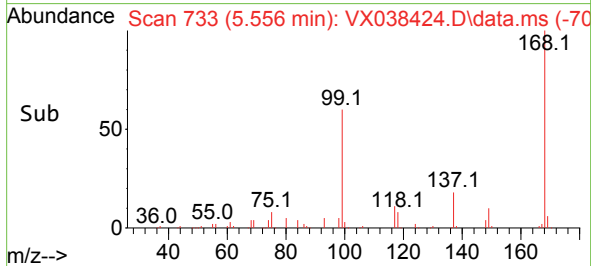


#38
Carbon Tetrachloride
Concen: 5.958 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

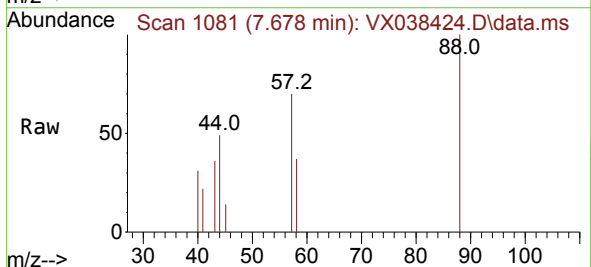
Instrument :
MSVOA_X
ClientSampleId :



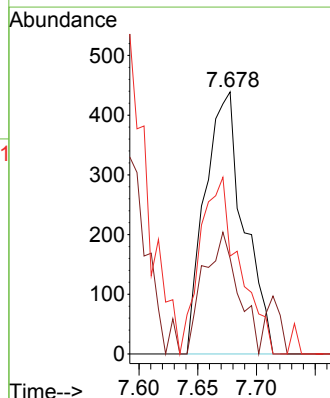
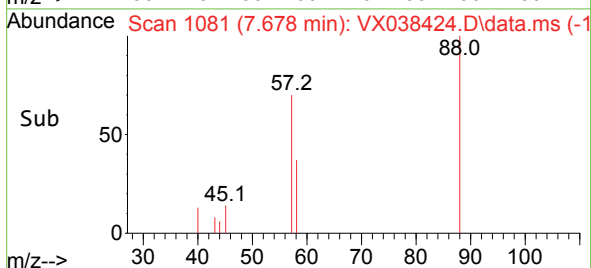
Tgt Ion:117 Resp: 15254
Ion Ratio Lower Upper
117 100
119 4.3 78.2 117.2#
121 0.0 24.4 36.6#

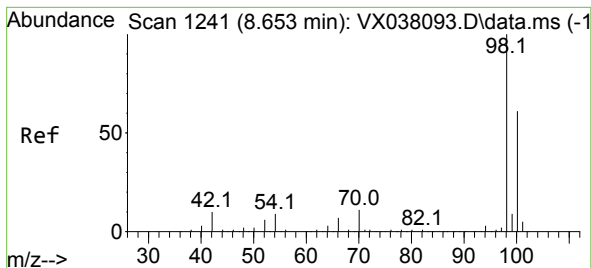


#49
1,4-Dioxane
Concen: 18.626 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.019 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59



Tgt Ion: 88 Resp: 1011
Ion Ratio Lower Upper
88 100
43 41.1 0.0 0.0#
58 68.1 60.1 90.1





#50

Toluene-d8

Concen: 44.547 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX038424.D

Acq: 23 Oct 2023 11:59

Instrument :

MSVOA_X

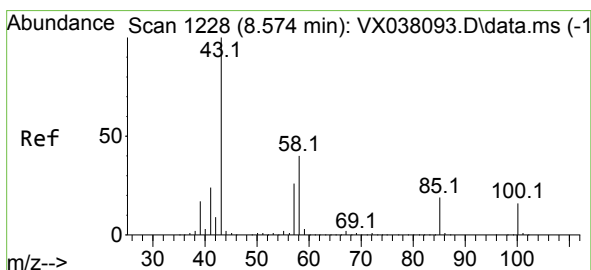
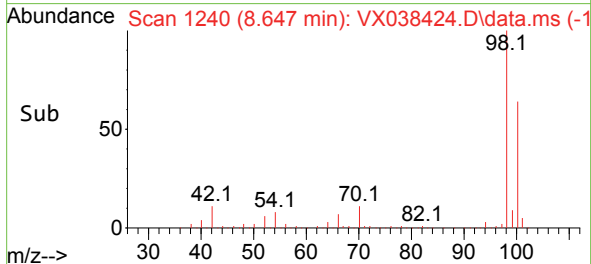
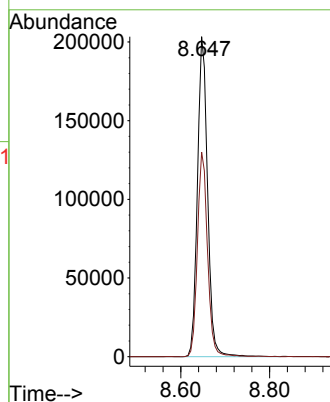
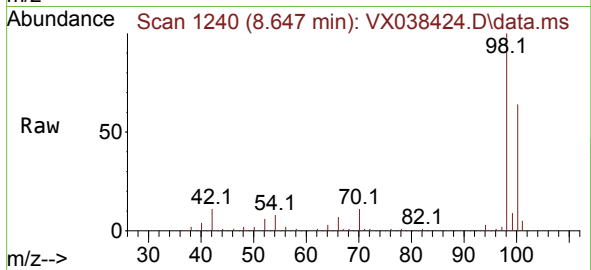
ClientSampleId :

Tgt Ion: 98 Resp: 321257

Ion Ratio Lower Upper

98 100

100 63.8 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.413 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX038424.D

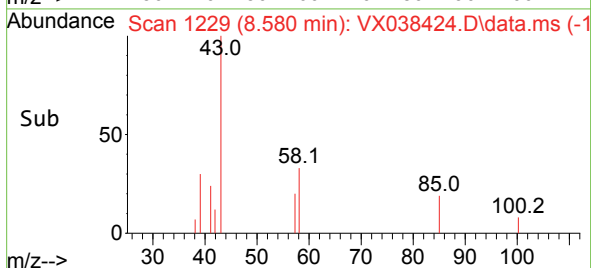
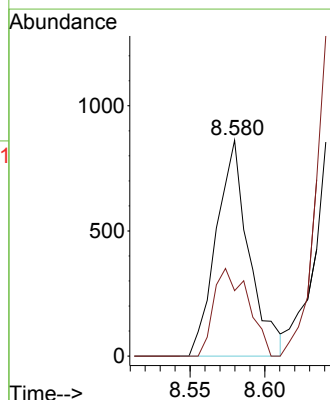
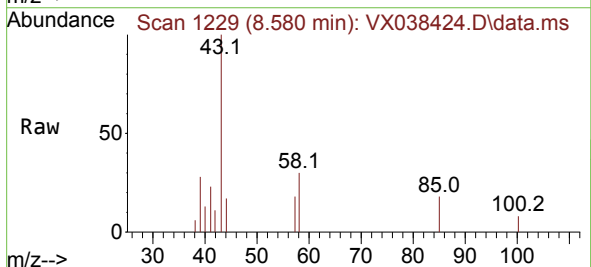
Acq: 23 Oct 2023 11:59

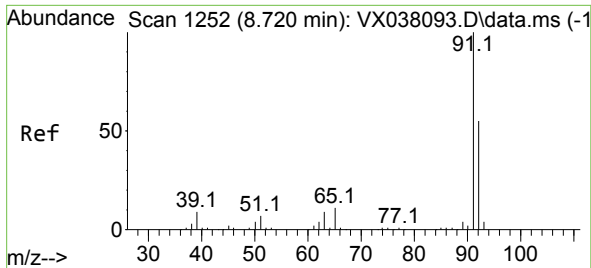
Tgt Ion: 43 Resp: 1316

Ion Ratio Lower Upper

43 100

58 42.6 30.4 45.6

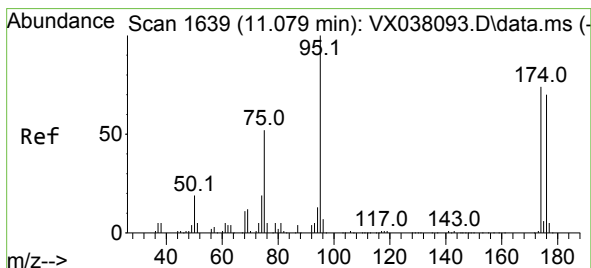
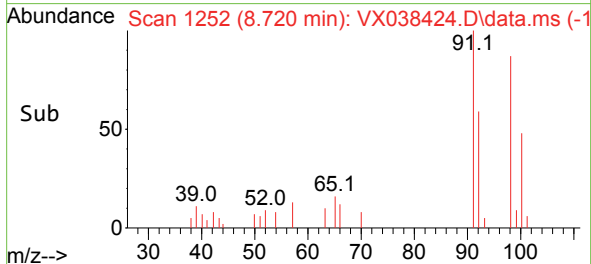
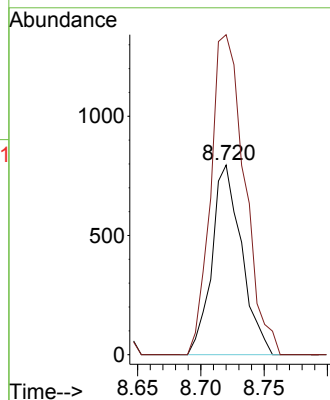
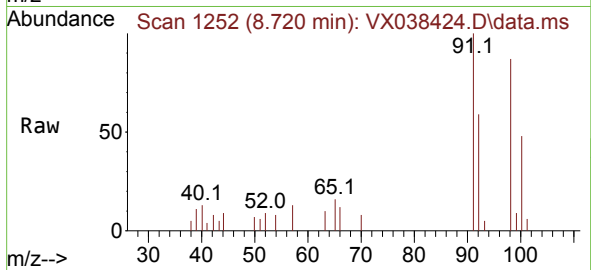




#52
Toluene
Concen: 0.275 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

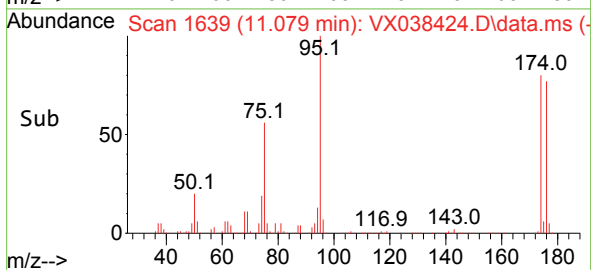
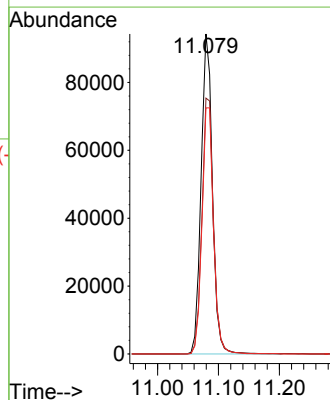
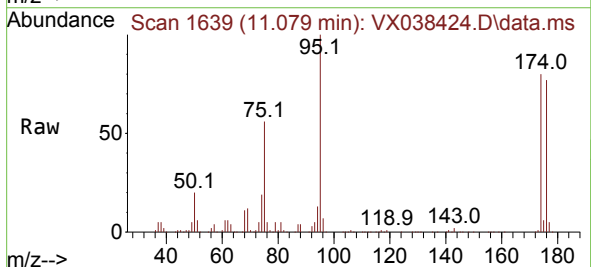
Instrument :
MSVOA_X
ClientSampleId :

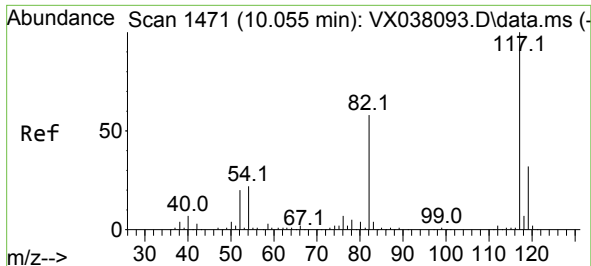
Tgt Ion: 92 Resp: 1302
Ion Ratio Lower Upper
92 100
91 192.1 134.2 201.2



#62
4-Bromofluorobenzene
Concen: 44.422 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion: 95 Resp: 121450
Ion Ratio Lower Upper
95 100
174 82.3 0.0 135.6
176 78.9 0.0 131.0

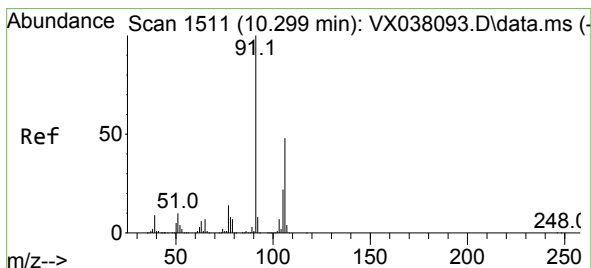
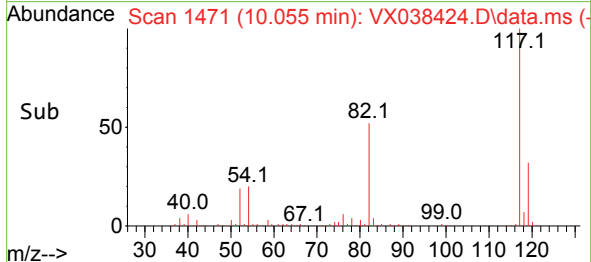
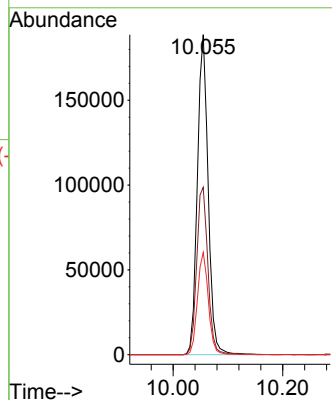
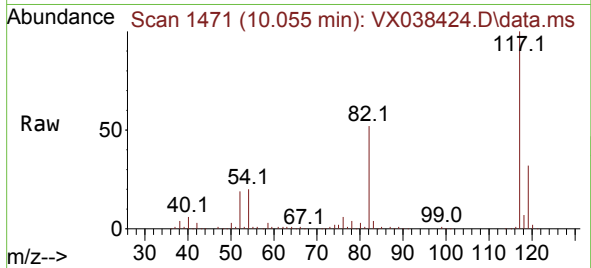




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

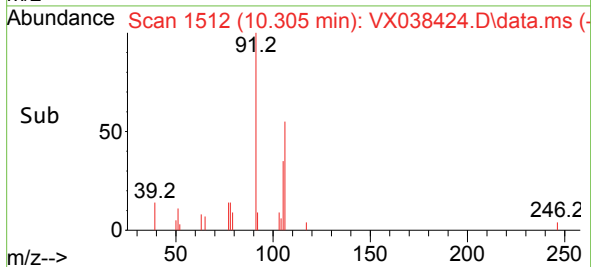
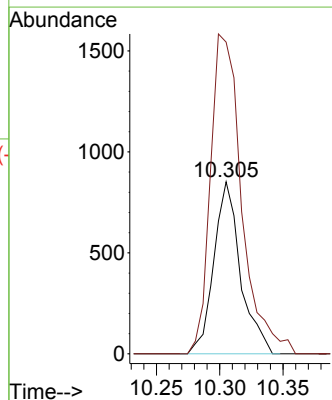
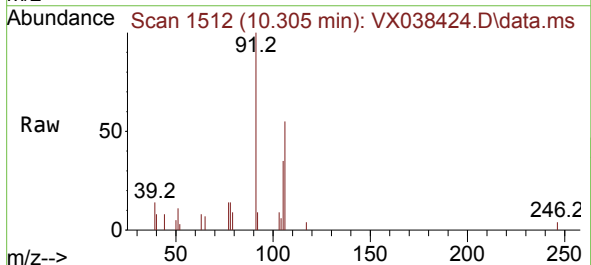
Instrument :
MSVOA_X
ClientSampleId :

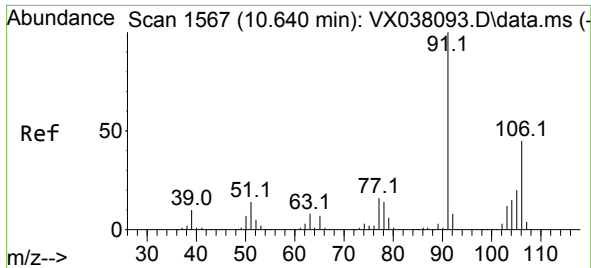
Tgt Ion:117 Resp: 259185
Ion Ratio Lower Upper
117 100
82 52.3 46.2 69.4
119 31.9 25.5 38.3



#68
m/p-Xylenes
Concen: 0.334 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion:106 Resp: 1250
Ion Ratio Lower Upper
106 100
91 217.4 165.5 248.3

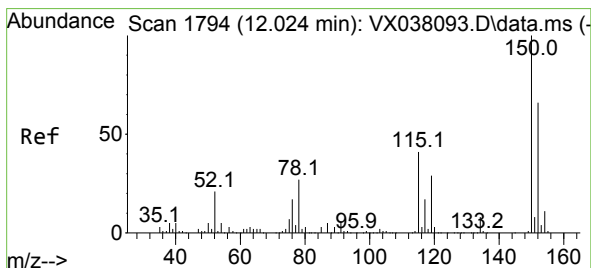
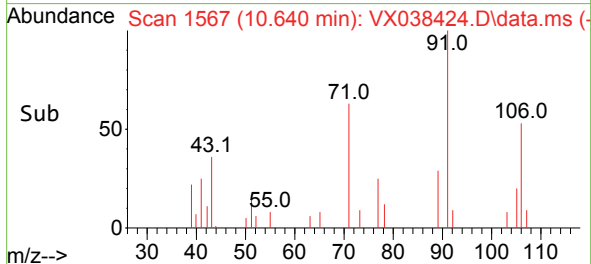
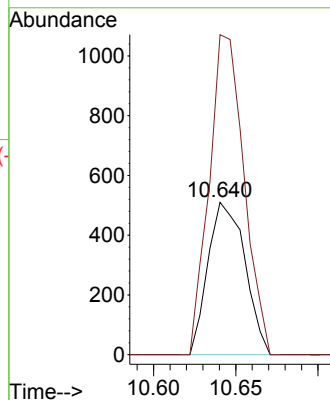
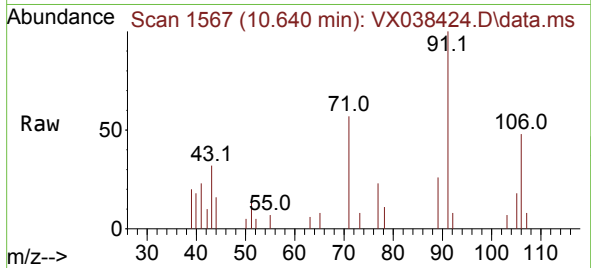




#69
o-Xylene
Concen: 0.218 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

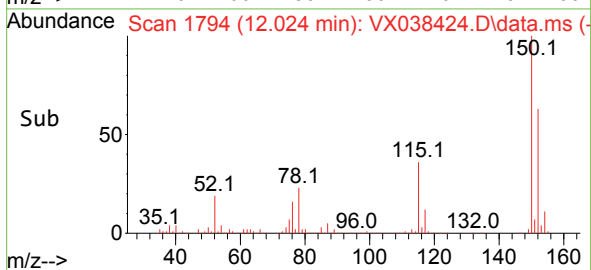
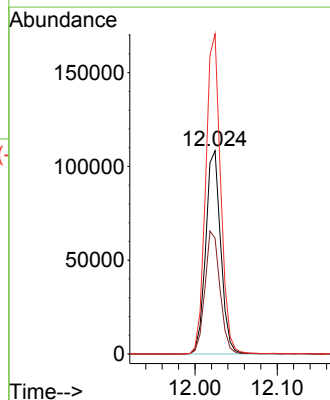
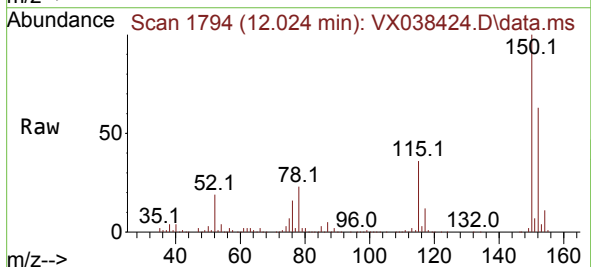
Instrument :
MSVOA_X
ClientSampleId :

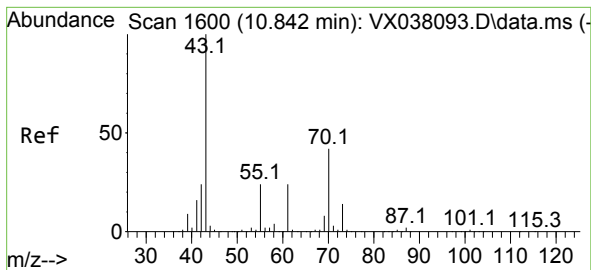
Tgt Ion:106 Resp: 796
Ion Ratio Lower Upper
106 100
91 198.2 108.9 326.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion:152 Resp: 137734
Ion Ratio Lower Upper
152 100
115 60.5 43.3 129.9
150 156.7 0.0 345.0





#74

N-amy1 acetate

Concen: 1.231 ug/l

RT: 10.768 min Scan# 1

Delta R.T. -0.074 min

Lab File: VX038424.D

Acq: 23 Oct 2023 11:59

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 43 Resp: 4857

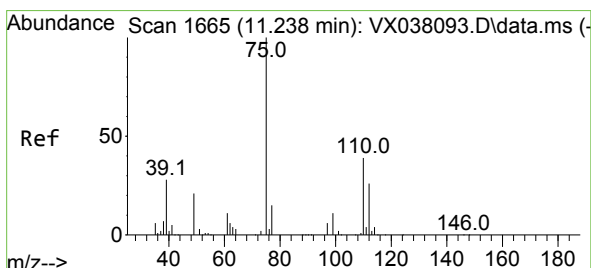
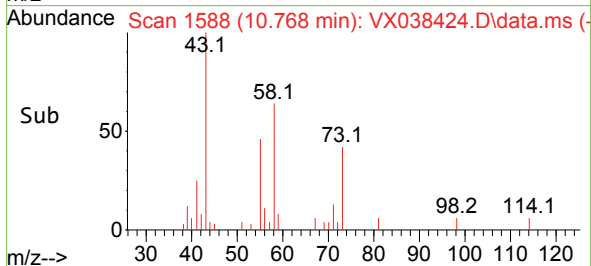
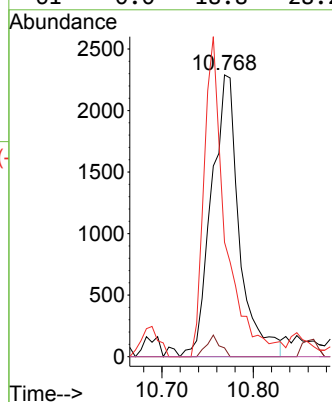
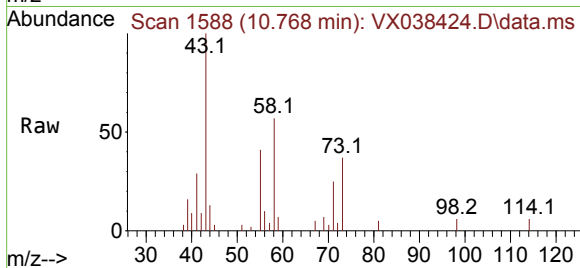
Ion Ratio Lower Upper

43 100

70 3.7 32.9 49.3#

55 87.0 19.3 28.9#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 21.165 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038424.D

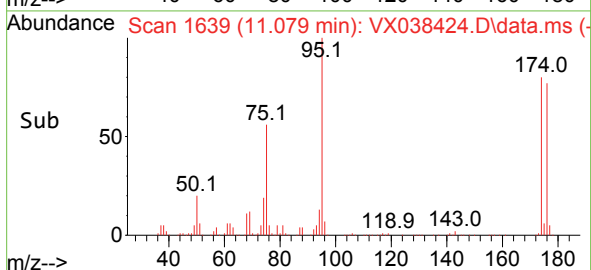
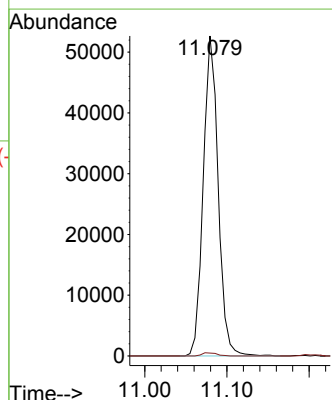
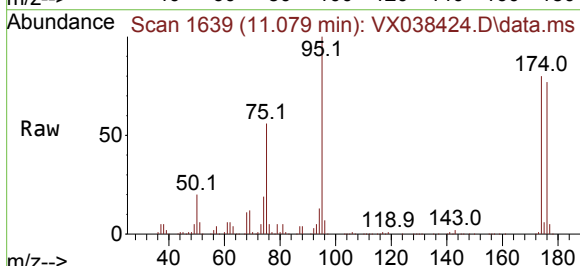
Acq: 23 Oct 2023 11:59

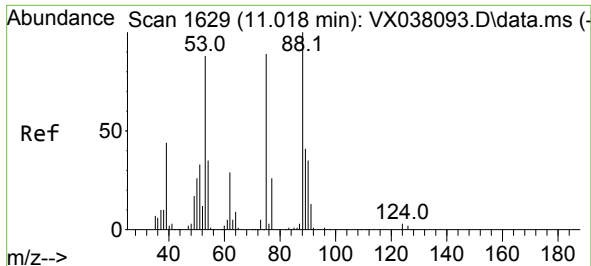
Tgt Ion: 75 Resp: 66273

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#

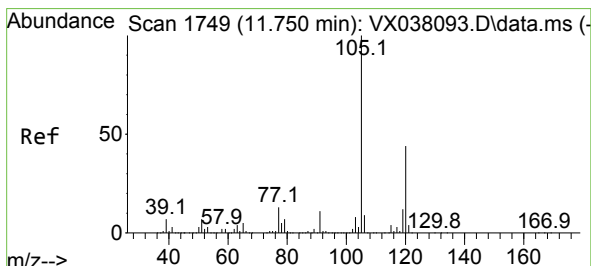
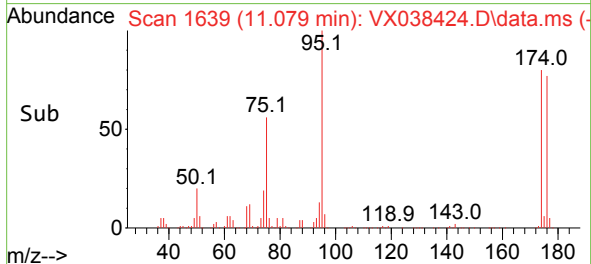
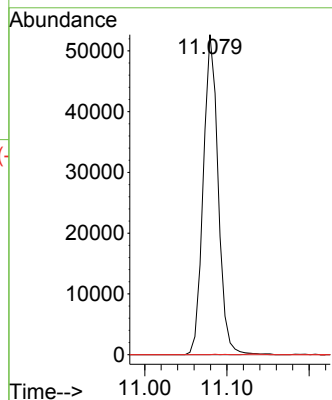
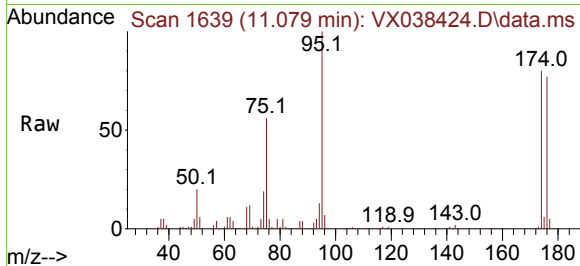




#81
trans-1,4-Dichloro-2-butene
Concen: 60.849 ug/l
RT: 11.079 min Scan# 1629
Delta R.T. 0.061 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

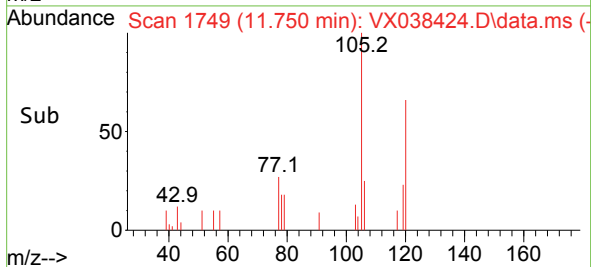
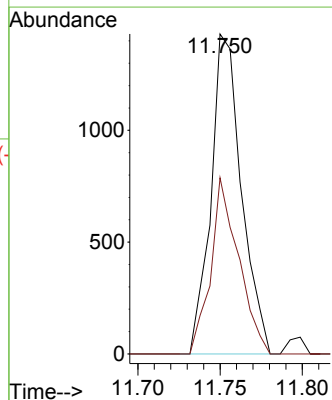
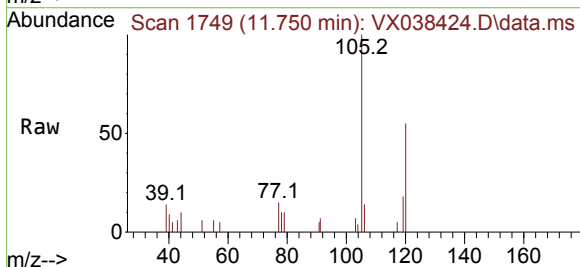
Instrument :
MSVOA_X
ClientSampleId :

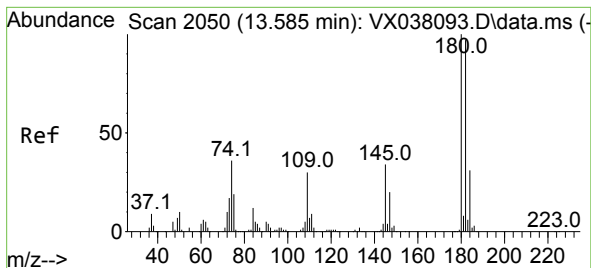
Tgt Ion: 75 Resp: 66273
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.1 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.232 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX038424.D
Acq: 23 Oct 2023 11:59

Tgt Ion:105 Resp: 1844
Ion Ratio Lower Upper
105 100
120 50.2 21.2 63.6





#93

1,2,4-Trichlorobenzene

Concen: 0.241 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX038424.D

Acq: 23 Oct 2023 11:59

Instrument :

MSVOA_X

ClientSampleId :

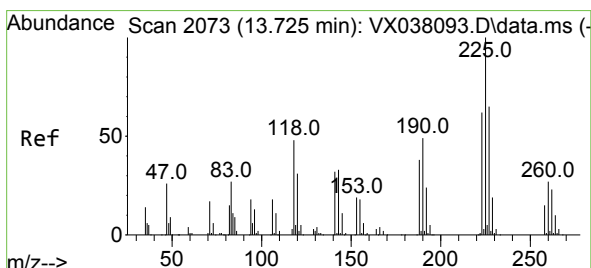
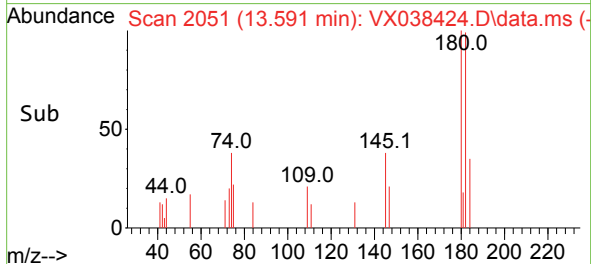
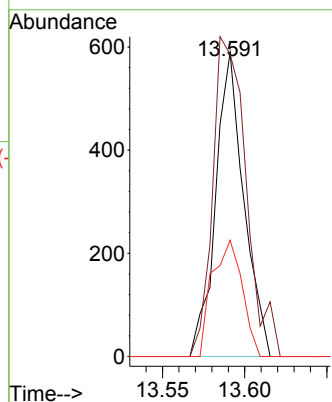
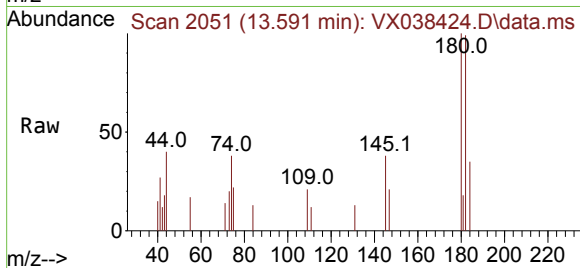
Tgt Ion:180 Resp: 703

Ion Ratio Lower Upper

180 100

182 124.2 48.3 144.8

145 40.5 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.416 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX038424.D

Acq: 23 Oct 2023 11:59

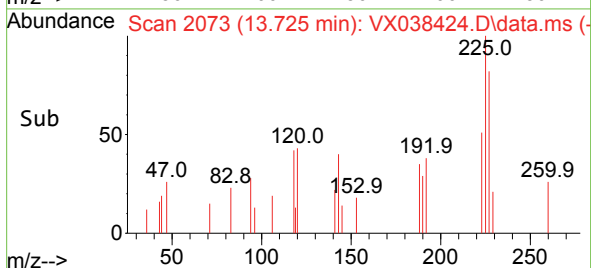
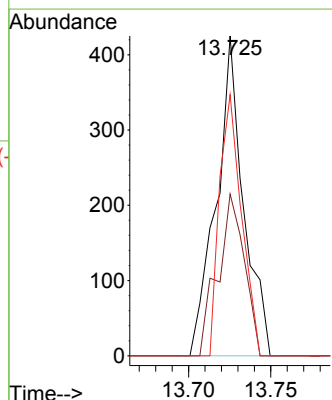
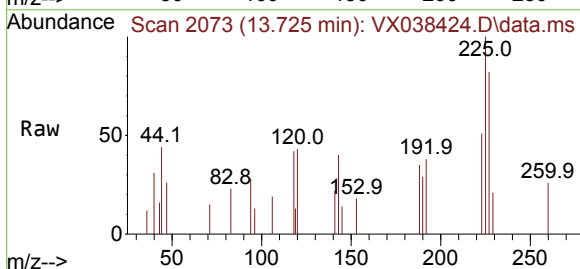
Tgt Ion:225 Resp: 489

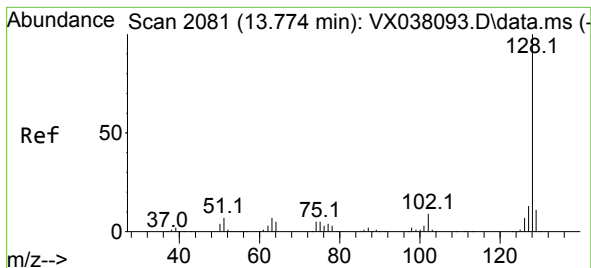
Ion Ratio Lower Upper

225 100

223 49.3 31.1 93.2

227 66.3 32.5 97.5





#95

Naphthalene

Concen: 0.293 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

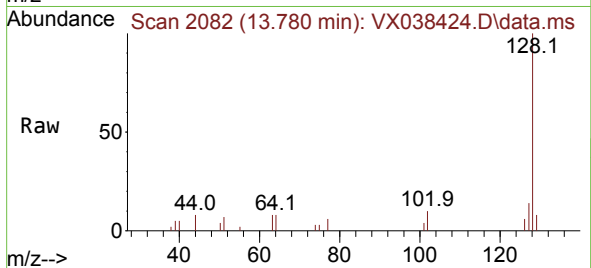
Lab File: VX038424.D

Acq: 23 Oct 2023 11:59

Instrument :

MSVOA_X

ClientSampleId :



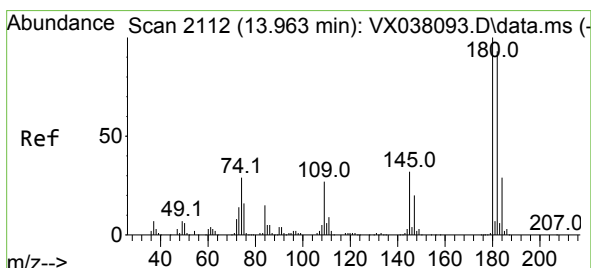
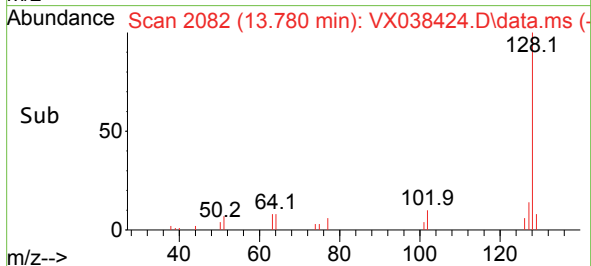
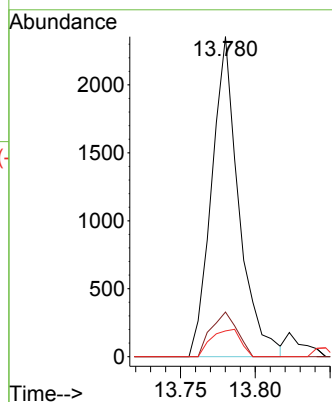
Tgt Ion:128 Resp: 2975

Ion Ratio Lower Upper

128 100

127 13.4 10.3 15.5

129 9.1 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.273 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. -0.000 min

Lab File: VX038424.D

Acq: 23 Oct 2023 11:59

Tgt Ion:180 Resp: 772

Ion Ratio Lower Upper

180 100

182 90.8 46.9 140.6

145 39.5 17.8 53.5

