

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101923\
 Data File : VX038385.D
 Acq On : 19 Oct 2023 15:01
 Operator : JC/MD
 Sample : 04966-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 231013059-VOA

Quant Time: Oct 20 03:41:08 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)

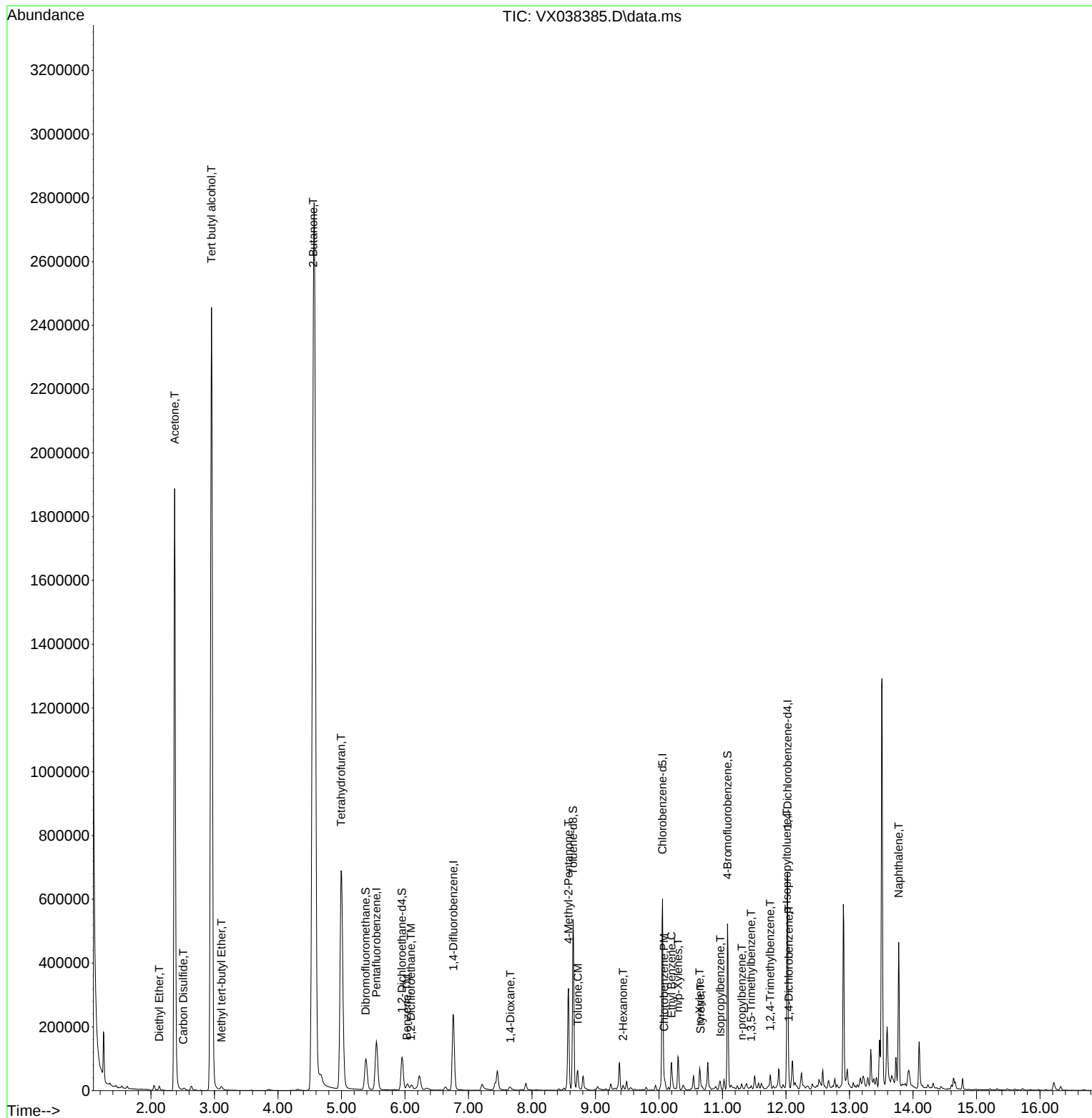
Internal Standards						
1) Pentafluorobenzene	5.550	168	141289	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	254255	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	262310	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	139612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	99370	43.726	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	87.460%
35) Dibromofluoromethane	5.379	113	81199	44.321	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	88.640%
50) Toluene-d8	8.647	98	322237	46.029	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	92.060%
62) 4-Bromofluorobenzene	11.079	95	125885	47.431	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.860%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.130	74	4190	3.691	ug/l	89
11) Tert butyl alcohol	2.953	59	2817009	5864.527	ug/l #	91
16) Acetone	2.374	43	1947286	2053.137	ug/l	90
17) Carbon Disulfide	2.508	76	2943	0.790	ug/l #	93
19) Methyl tert-butyl Ether	3.111	73	10541	2.047	ug/l	92
25) 2-Butanone	4.556	43	2966809	1938.723	ug/l #	87
29) Tetrahydrofuran	4.995	42	594094	596.291	ug/l #	87
40) Benzene	6.032	78	24201	3.425	ug/l	94
42) 1,2-Dichloroethane	6.092	62	2797	0.991	ug/l	91
49) 1,4-Dioxane	7.659	88	5311	100.794	ug/l #	98
51) 4-Methyl-2-Pentanone	8.574	43	182774	59.159	ug/l	97
52) Toluene	8.720	92	18967	4.121	ug/l	92
59) 2-Hexanone	9.433	43	7203	2.900	ug/l	93
65) Chlorobenzene	10.080	112	6577	1.198	ug/l #	82
67) Ethyl Benzene	10.195	91	48636	4.964	ug/l	99
68) m/p-Xylenes	10.299	106	22330	5.894	ug/l	99
69) o-Xylene	10.640	106	13826	3.739	ug/l	99
70) Styrene	10.653	104	4582	0.761	ug/l #	65
73) Isopropylbenzene	10.964	105	11566	1.235	ug/l	99
78) n-propylbenzene	11.305	91	4248	0.371	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	4151	0.514	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	18350	2.278	ug/l	95
86) p-Isopropyltoluene	12.012	119	11976	1.420	ug/l	94
88) 1,4-Dichlorobenzene	12.043	146	13668	2.916	ug/l	91
95) Naphthalene	13.774	128	260334	25.255	ug/l	100

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

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231013059-VOA

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Quant Title : SW846 8260
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Response via : Initial Calibration

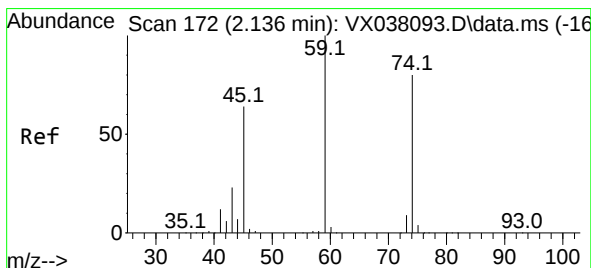
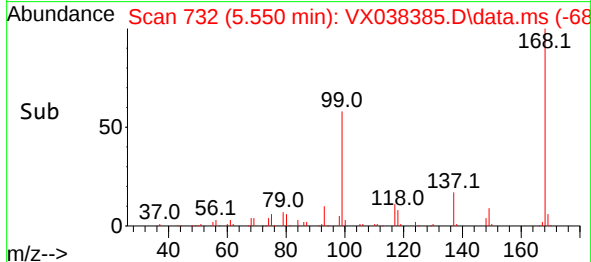
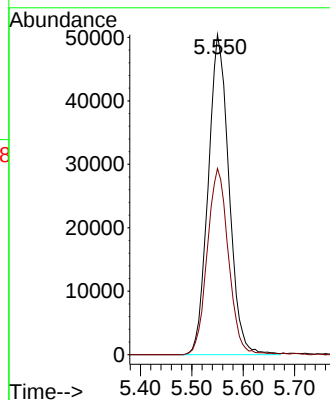
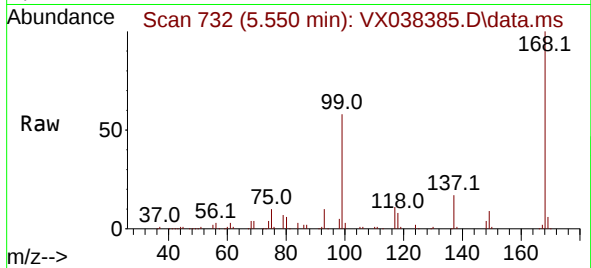




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

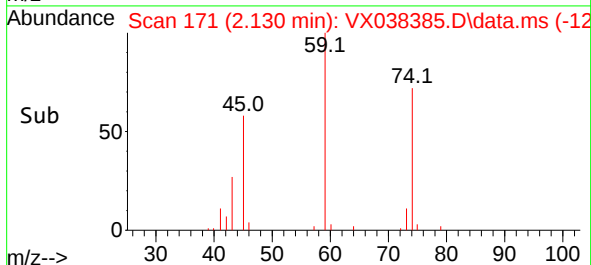
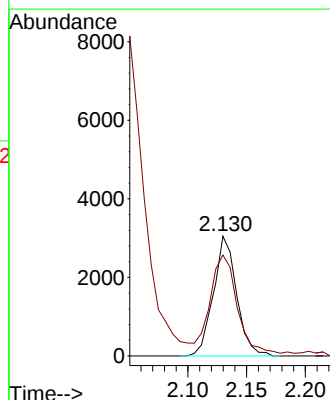
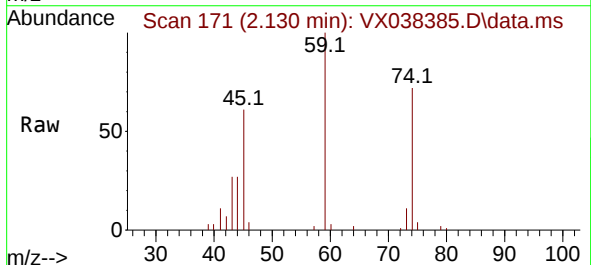
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

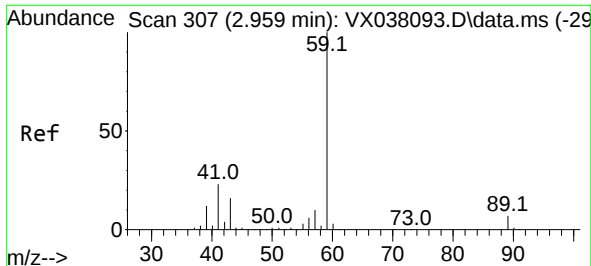
Tgt Ion:168 Resp: 141289
Ion Ratio Lower Upper
168 100
99 58.2 56.6 85.0



#8
Diethyl Ether
Concen: 3.691 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion: 74 Resp: 4190
Ion Ratio Lower Upper
74 100
45 95.2 53.3 159.8





#11

Tert butyl alcohol

Concen: 5864.527 ug/l

RT: 2.953 min Scan# 307

Delta R.T. -0.006 min

Lab File: VX038385.D

Acq: 19 Oct 2023 15:01

Instrument :

MSVOA_X

ClientSampleId :

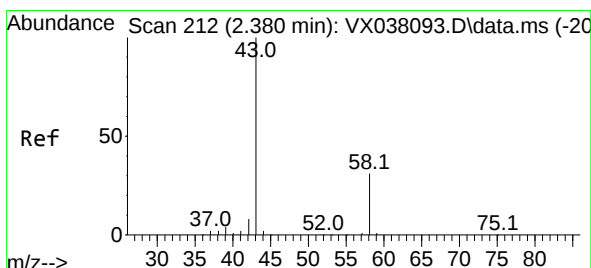
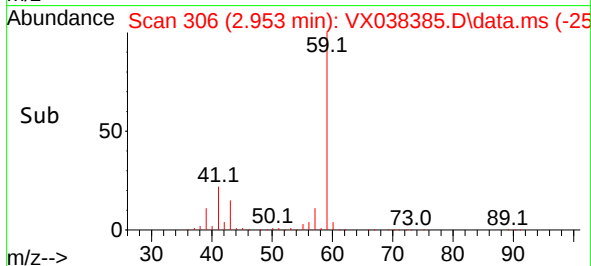
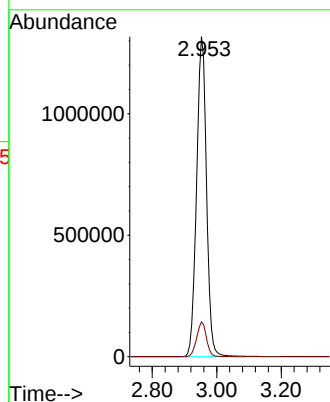
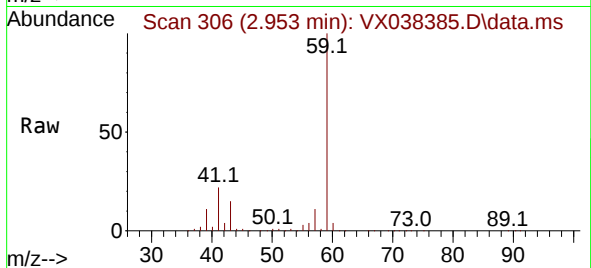
231013059-VOA

Tgt Ion: 59 Resp: 2817009

Ion Ratio Lower Upper

59 100

57 10.7 6.0 9.0#



#16

Acetone

Concen: 2053.137 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.006 min

Lab File: VX038385.D

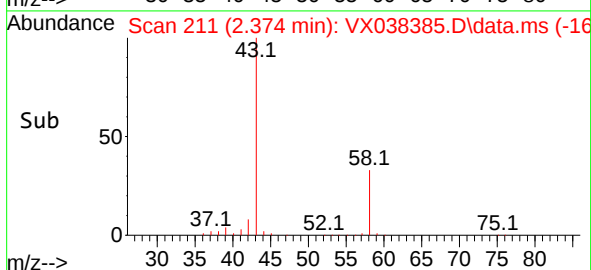
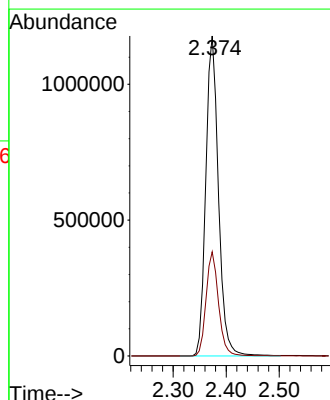
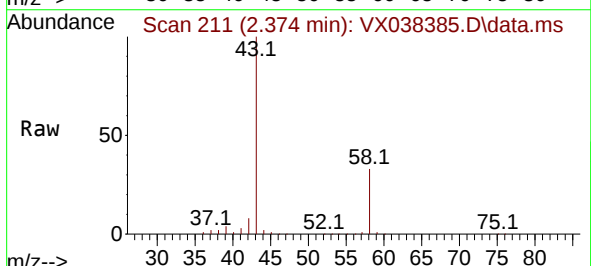
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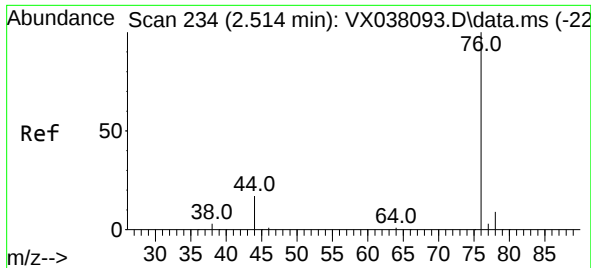
Tgt Ion: 43 Resp: 1947286

Ion Ratio Lower Upper

43 100

58 32.5 21.9 32.9

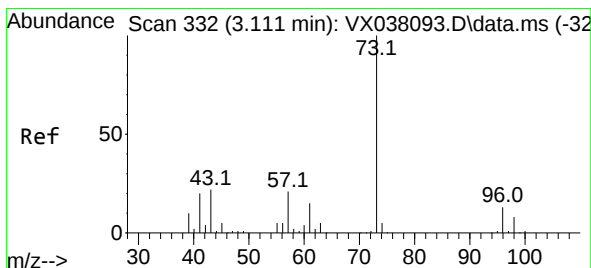
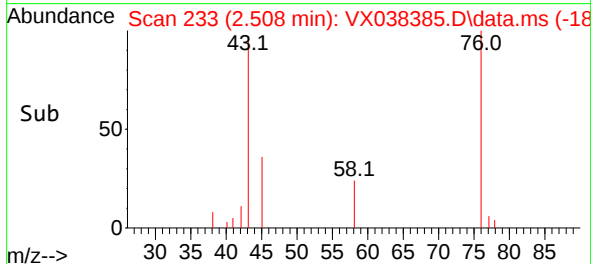
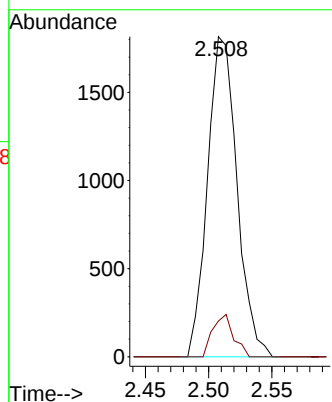
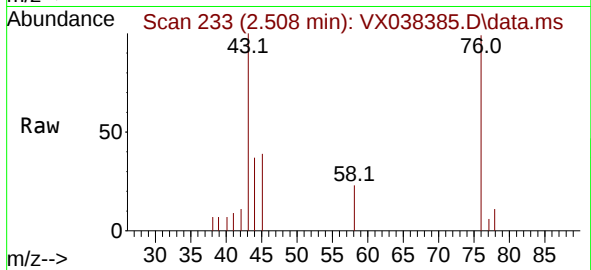




#17
Carbon Disulfide
Concen: 0.790 ug/l
RT: 2.508 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

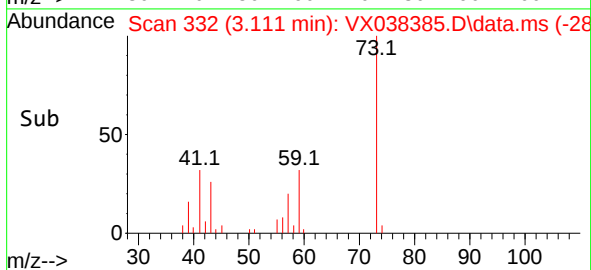
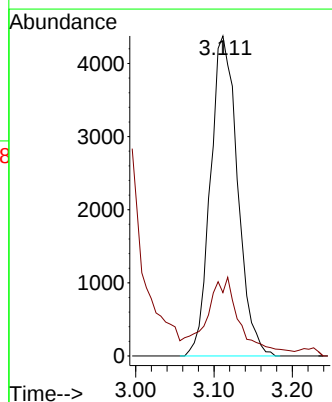
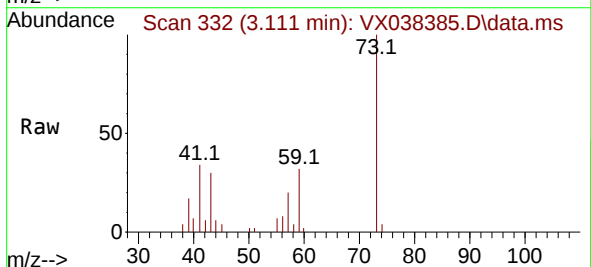
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

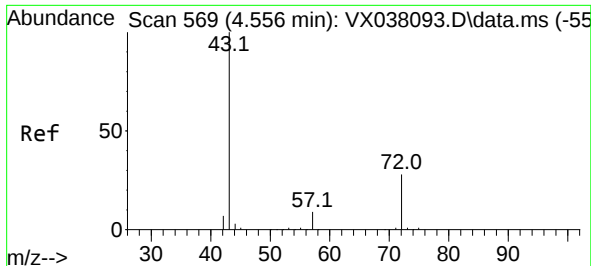
Tgt Ion: 76 Resp: 2943
Ion Ratio Lower Upper
76 100
78 11.2 7.0 10.6#



#19
Methyl tert-butyl Ether
Concen: 2.047 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion: 73 Resp: 10541
Ion Ratio Lower Upper
73 100
57 17.8 17.3 25.9

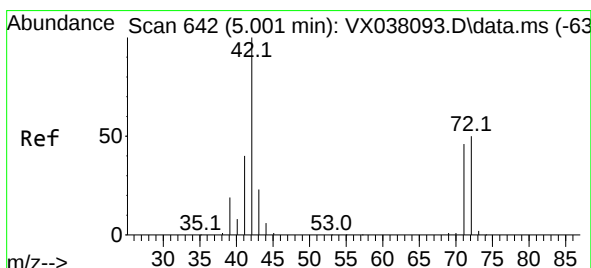
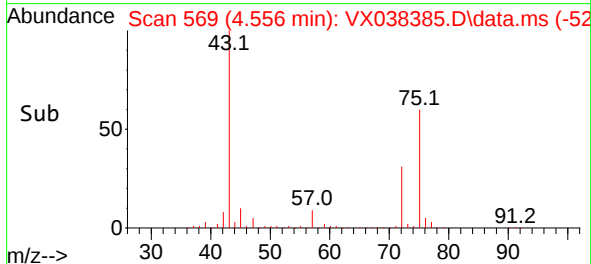
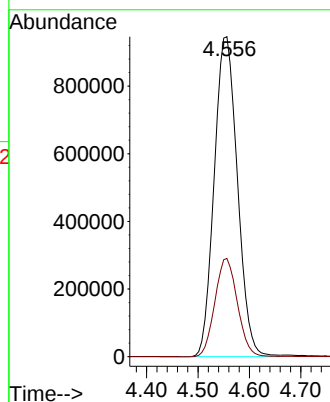
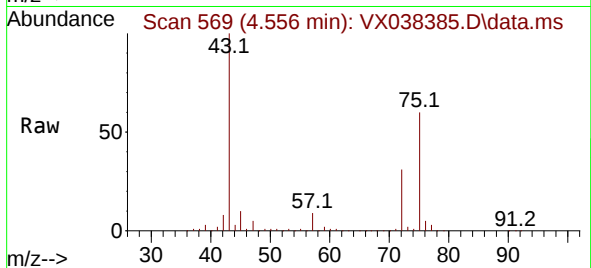




#25
2-Butanone
Concen: 1938.723 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

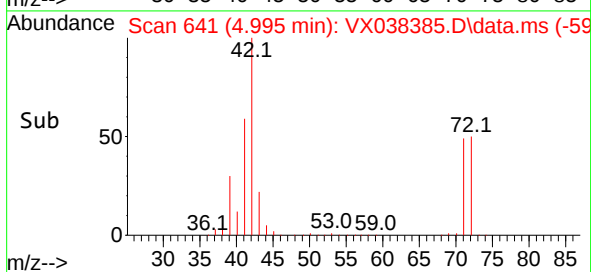
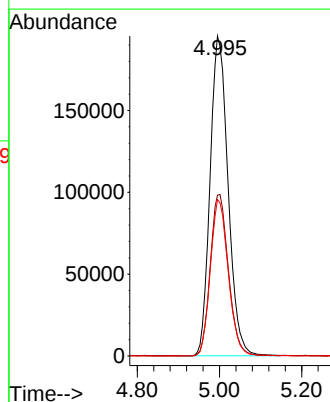
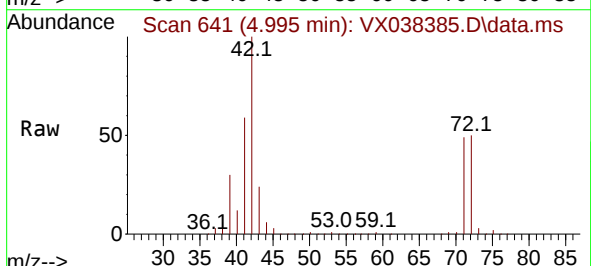
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

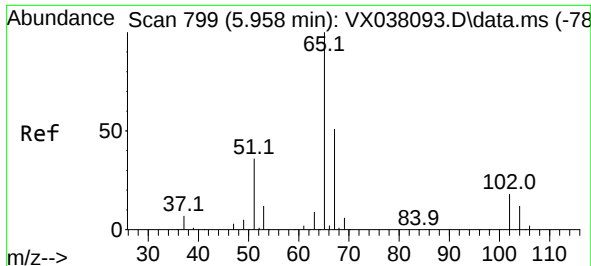
Tgt Ion: 43 Resp: 2966809
Ion Ratio Lower Upper
43 100
72 30.7 19.4 29.2#



#29
Tetrahydrofuran
Concen: 596.291 ug/l
RT: 4.995 min Scan# 641
Delta R.T. -0.006 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion: 42 Resp: 594094
Ion Ratio Lower Upper
42 100
72 50.9 34.2 51.4
71 48.7 32.2 48.2#





#33

1,2-Dichloroethane-d4

Concen: 43.726 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038385.D

Acq: 19 Oct 2023 15:01

Instrument :

MSVOA_X

ClientSampleId :

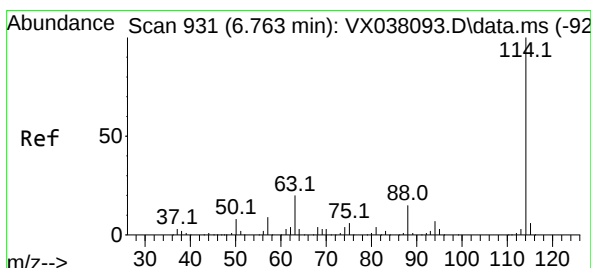
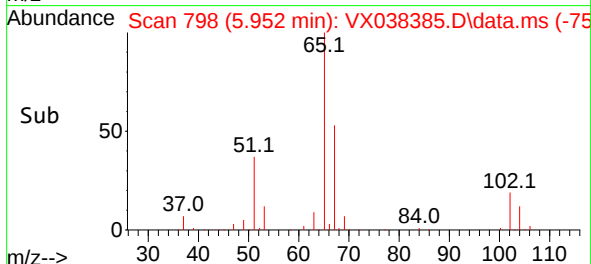
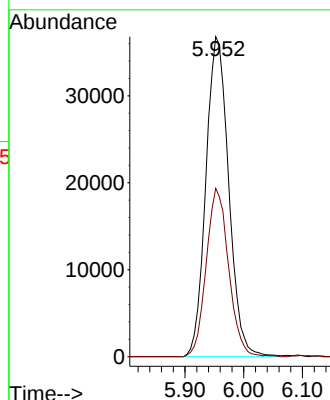
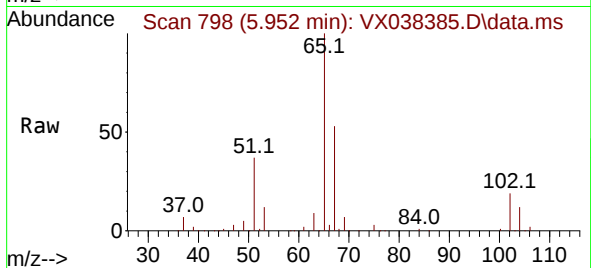
231013059-VOA

Tgt Ion: 65 Resp: 99370

Ion Ratio Lower Upper

65 100

67 51.6 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: VX038385.D

Acq: 19 Oct 2023 15:01

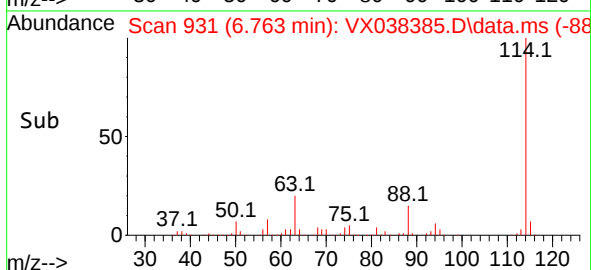
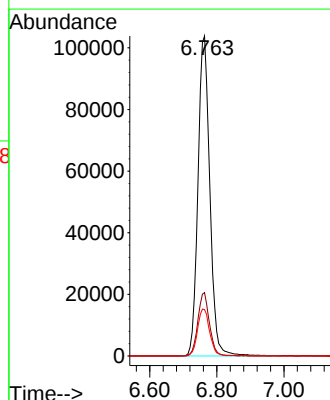
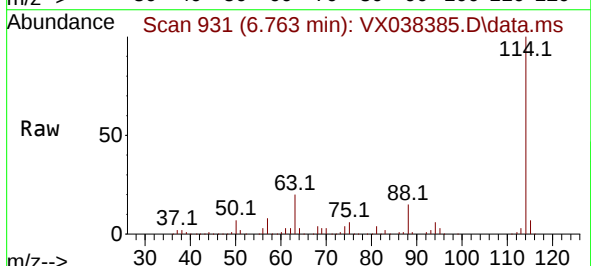
Tgt Ion: 114 Resp: 254255

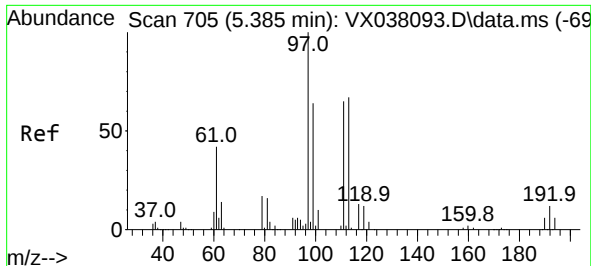
Ion Ratio Lower Upper

114 100

63 19.8 0.0 45.0

88 14.5 0.0 36.6





#35

Dibromofluoromethane

Concen: 44.321 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX038385.D

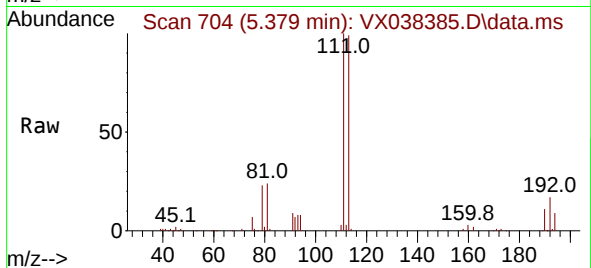
Acq: 19 Oct 2023 15:01

Instrument :

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ClientSampleId :

231013059-VOA



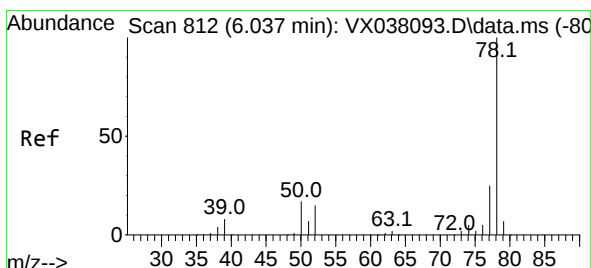
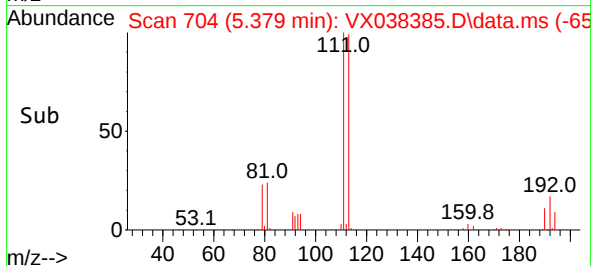
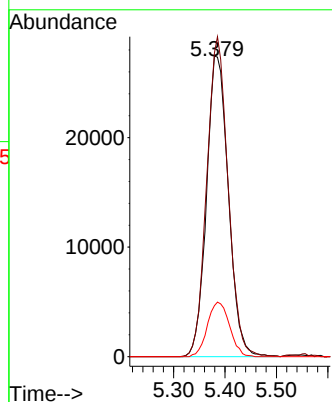
Tgt Ion:113 Resp: 81199

Ion Ratio Lower Upper

113 100

111 103.6 82.9 124.3

192 18.3 13.3 19.9



#40

Benzene

Concen: 3.425 ug/l

RT: 6.032 min Scan# 811

Delta R.T. -0.006 min

Lab File: VX038385.D

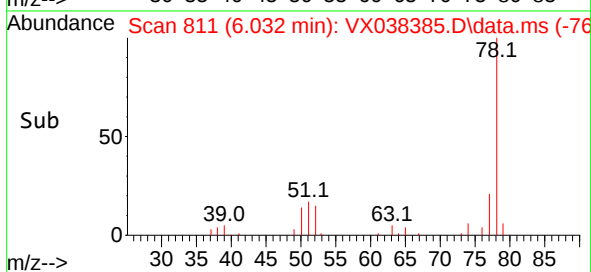
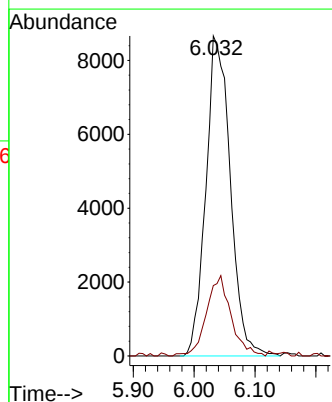
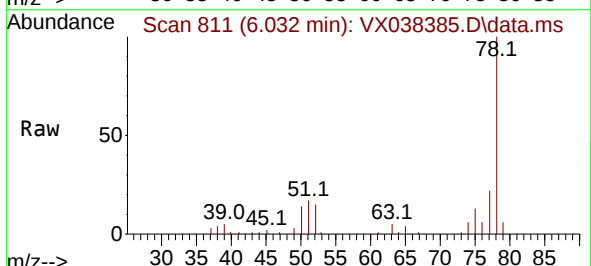
Acq: 19 Oct 2023 15:01

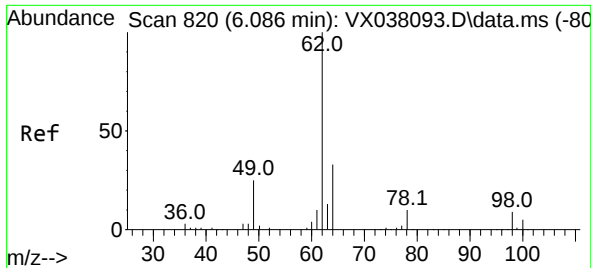
Tgt Ion: 78 Resp: 24201

Ion Ratio Lower Upper

78 100

77 21.3 19.3 28.9

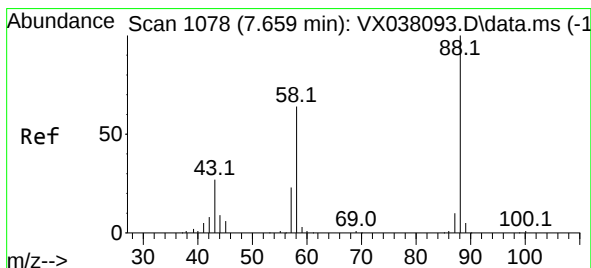
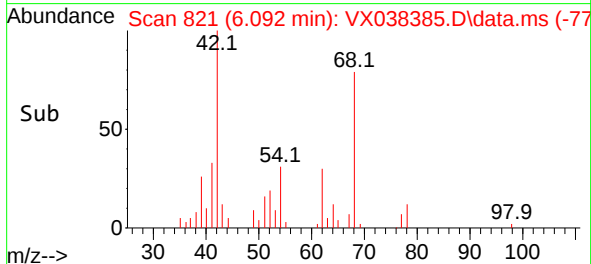
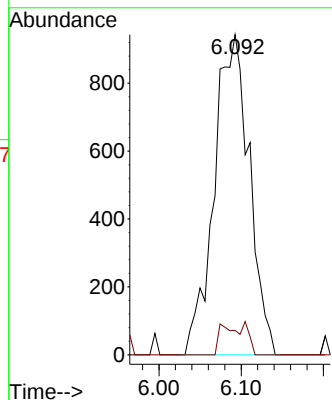
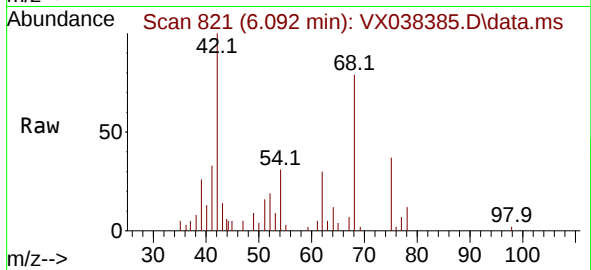




#42
1,2-Dichloroethane
Concen: 0.991 ug/l
RT: 6.092 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

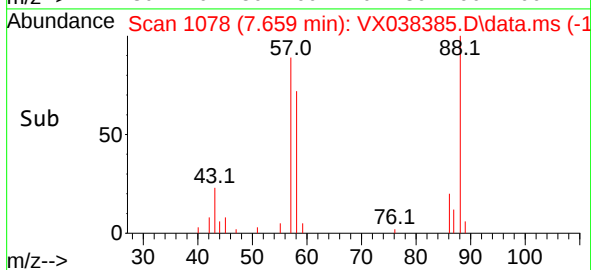
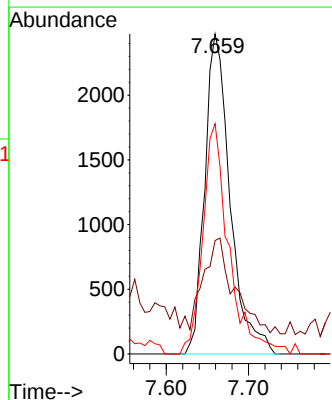
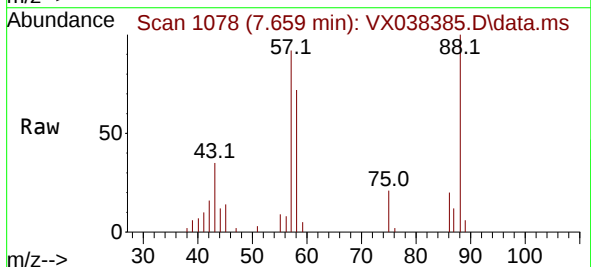
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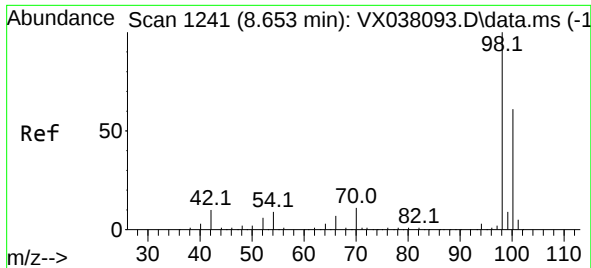
Tgt Ion: 62 Resp: 2797
Ion Ratio Lower Upper
62 100
98 4.9 0.0 16.0



#49
1,4-Dioxane
Concen: 100.794 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion: 88 Resp: 5311
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 73.7 60.1 90.1

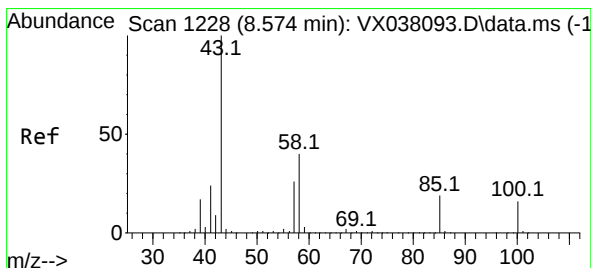
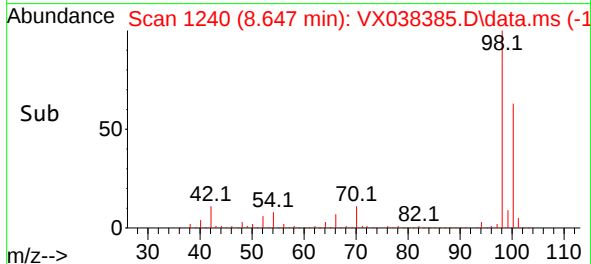
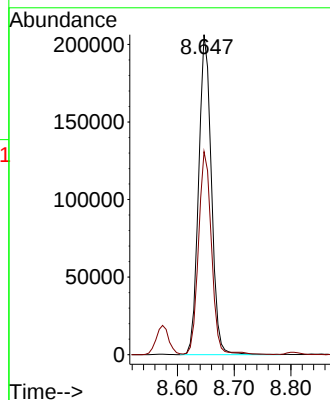
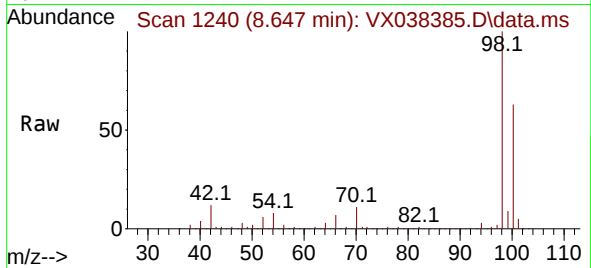




#50
Toluene-d8
Concen: 46.029 ug/l
RT: 8.647 min Scan# 1241
Delta R.T. -0.006 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

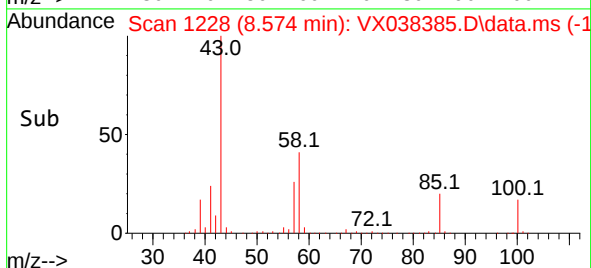
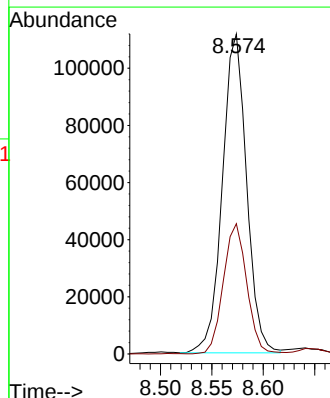
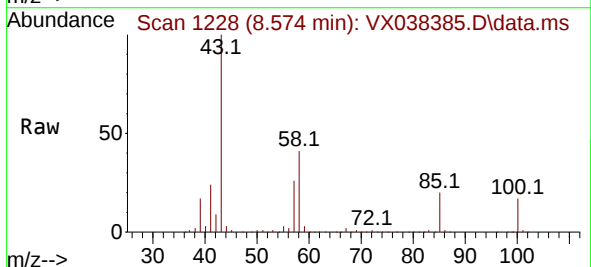
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

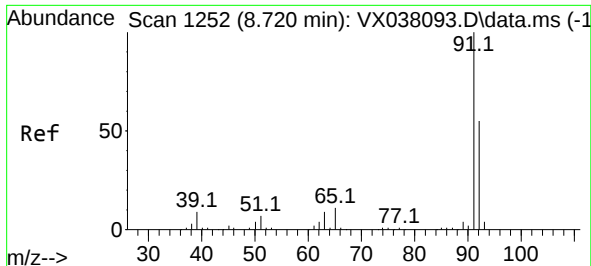
Tgt Ion: 98 Resp: 322237
Ion Ratio Lower Upper
98 100
100 63.2 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 59.159 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion: 43 Resp: 182774
Ion Ratio Lower Upper
43 100
58 39.6 30.4 45.6

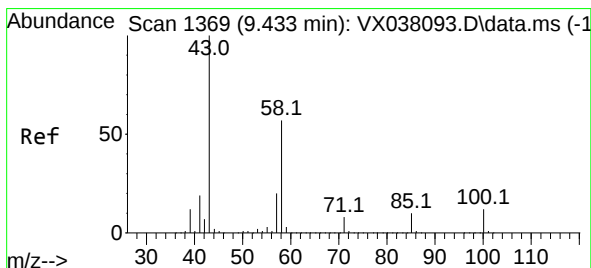
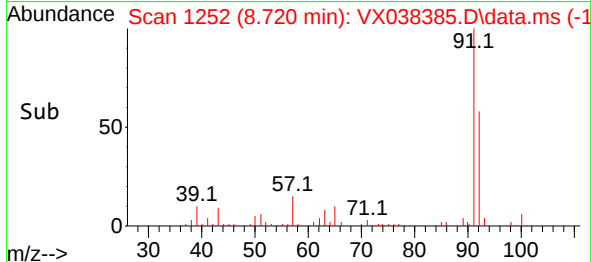
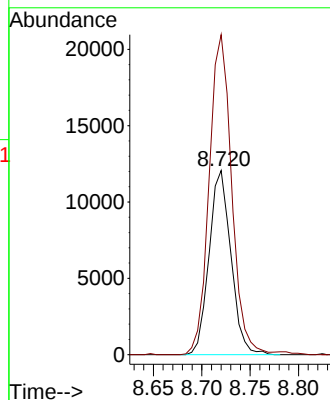
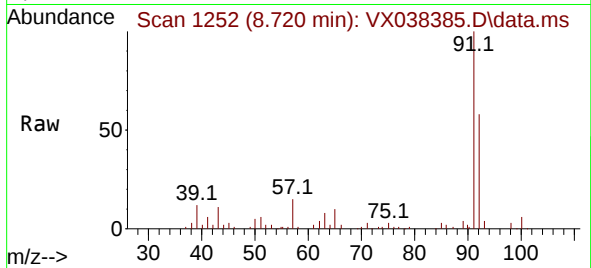




#52
Toluene
Concen: 4.121 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

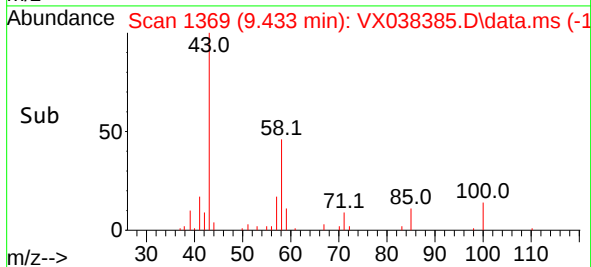
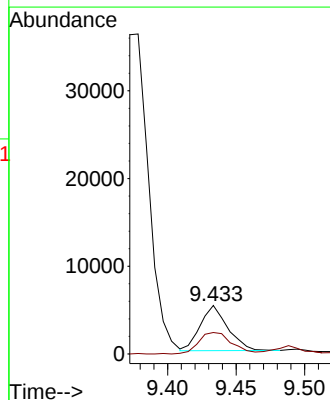
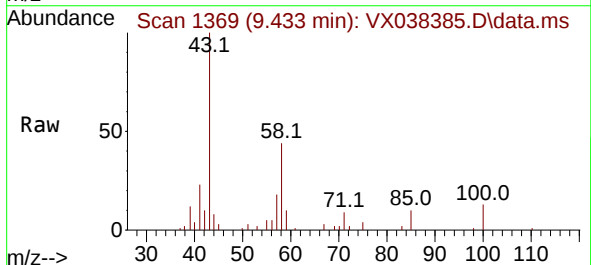
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

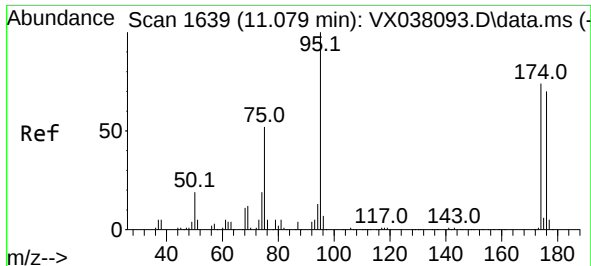
Tgt Ion: 92 Resp: 18967
Ion Ratio Lower Upper
92 100
91 179.1 134.2 201.2



#59
2-Hexanone
Concen: 2.900 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion: 43 Resp: 7203
Ion Ratio Lower Upper
43 100
58 57.3 26.2 78.5





#62

4-Bromofluorobenzene

Concen: 47.431 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038385.D

Acq: 19 Oct 2023 15:01

Instrument :

MSVOA_X

ClientSampleId :

231013059-VOA

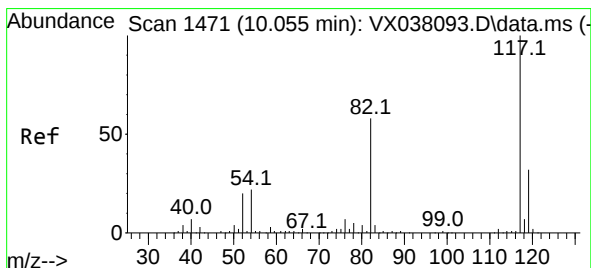
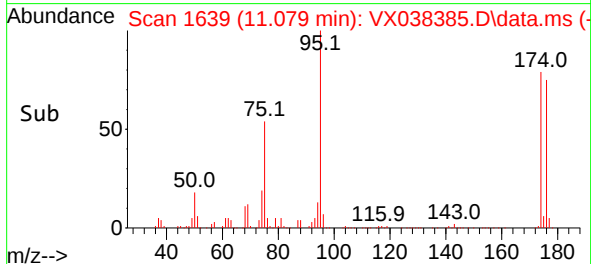
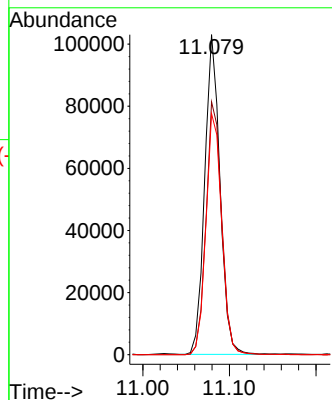
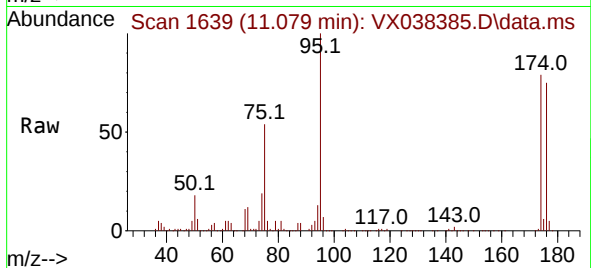
Tgt Ion: 95 Resp: 125885

Ion Ratio Lower Upper

95 100

174 81.3 0.0 135.6

176 78.2 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: VX038385.D

Acq: 19 Oct 2023 15:01

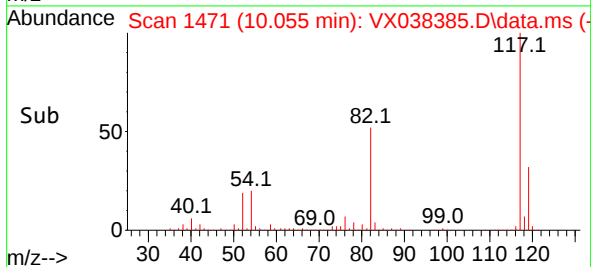
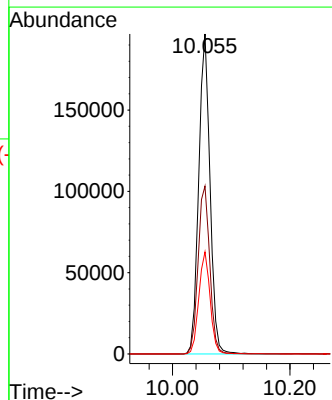
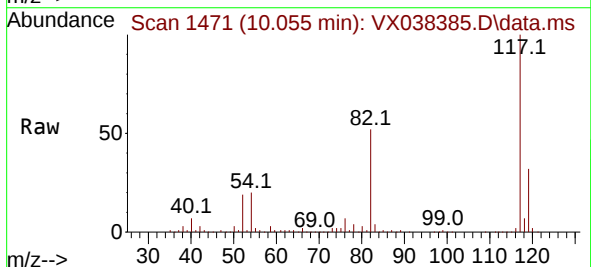
Tgt Ion: 117 Resp: 262310

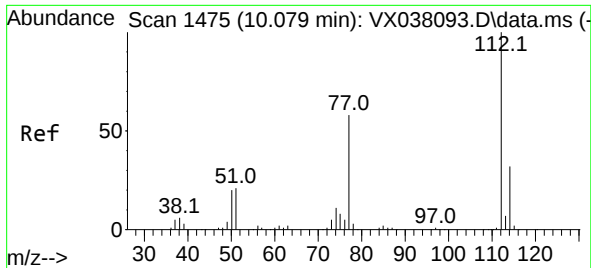
Ion Ratio Lower Upper

117 100

82 52.5 46.2 69.4

119 31.9 25.5 38.3

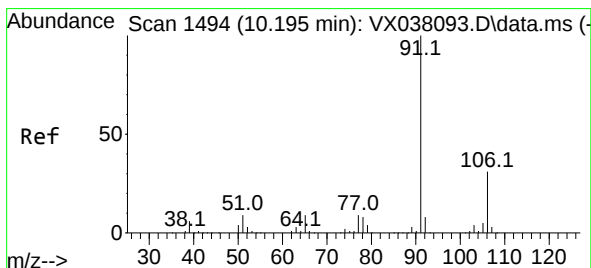
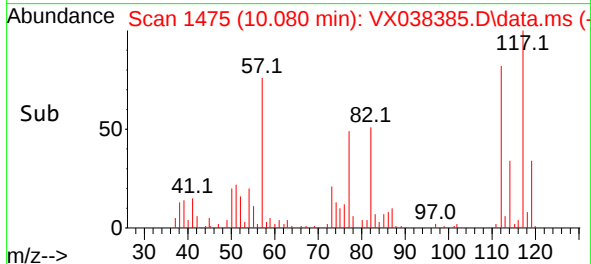
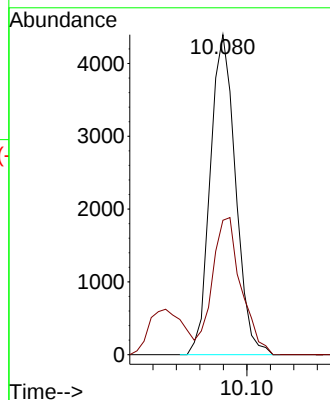
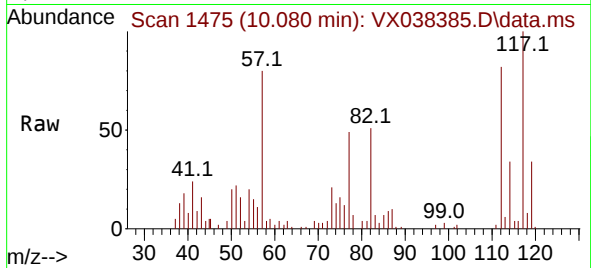




#65
Chlorobenzene
Concen: 1.198 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.001 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

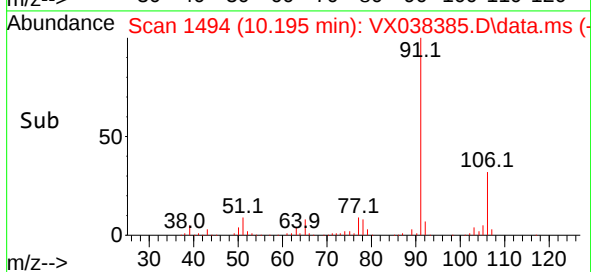
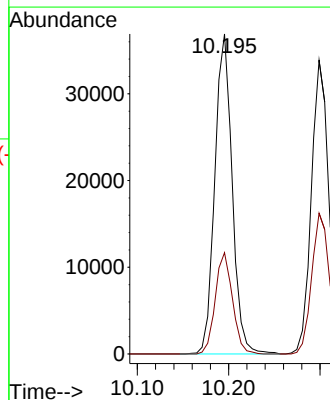
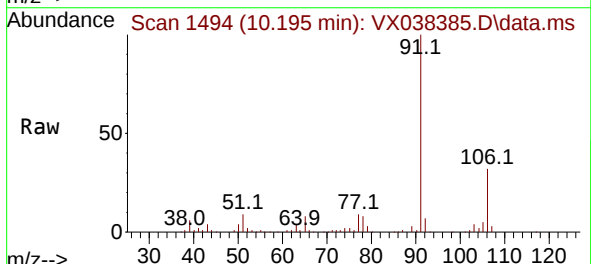
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

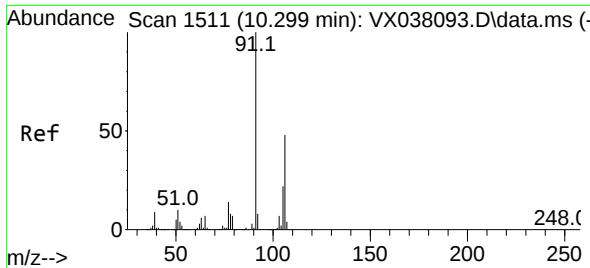
Tgt Ion:112 Resp: 6577
Ion Ratio Lower Upper
112 100
114 42.0 25.7 38.5#



#67
Ethyl Benzene
Concen: 4.964 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion: 91 Resp: 48636
Ion Ratio Lower Upper
91 100
106 31.7 24.9 37.3

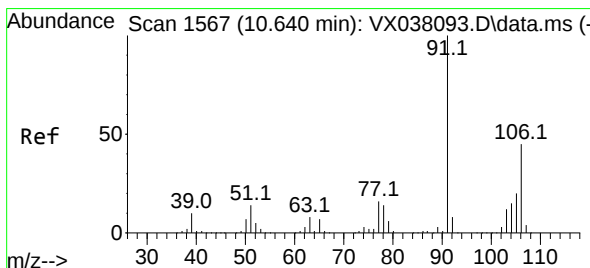
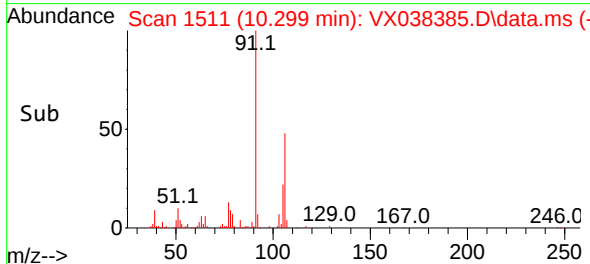
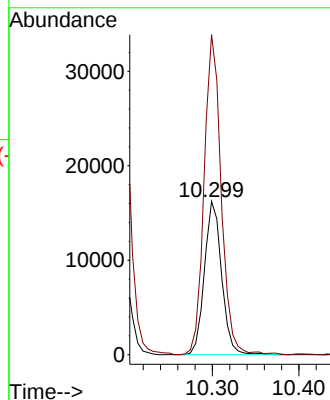
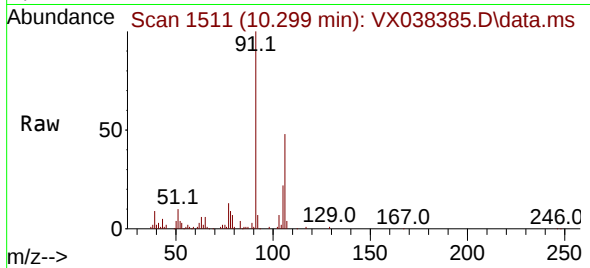




#68
m/p-Xylenes
Concen: 5.894 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

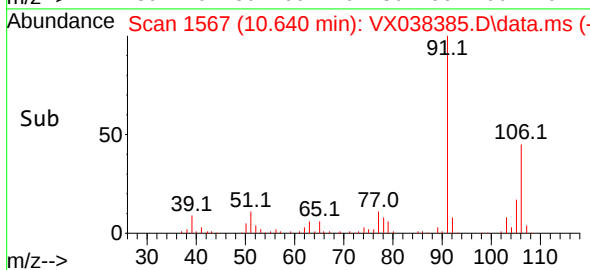
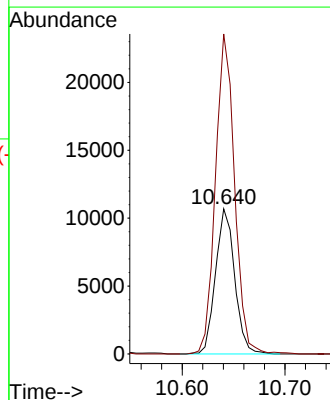
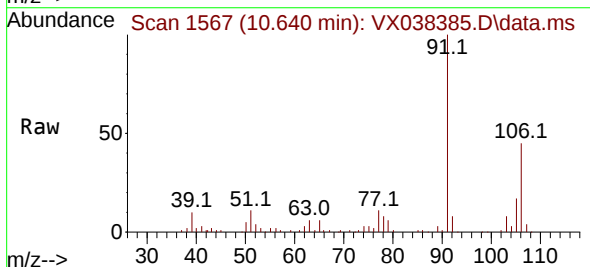
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

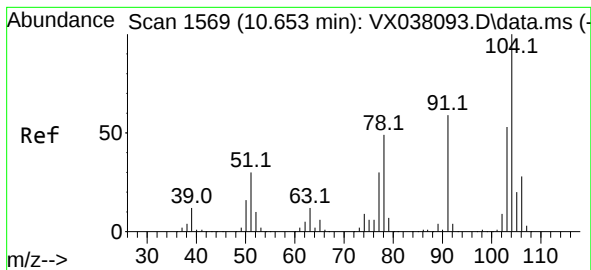
Tgt Ion:106 Resp: 22330
Ion Ratio Lower Upper
106 100
91 207.9 165.5 248.3



#69
o-Xylene
Concen: 3.739 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Tgt Ion:106 Resp: 13826
Ion Ratio Lower Upper
106 100
91 219.9 108.9 326.8





#70

Styrene

Concen: 0.761 ug/l

RT: 10.653 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX038385.D

Acq: 19 Oct 2023 15:01

Instrument :

MSVOA_X

ClientSampleId :

231013059-VOA

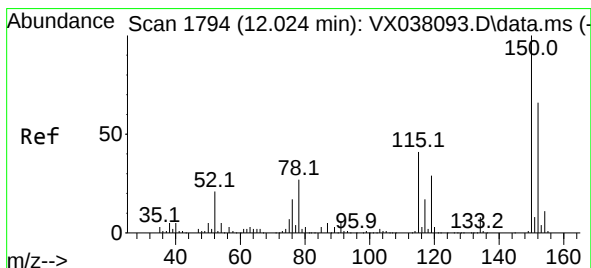
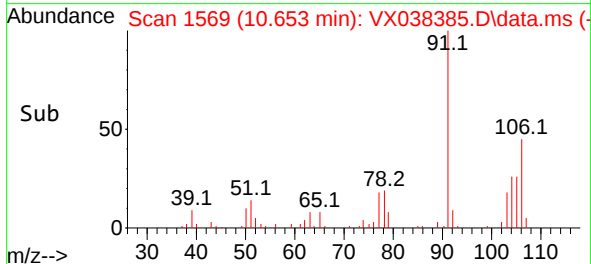
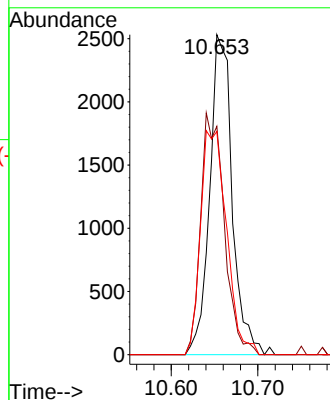
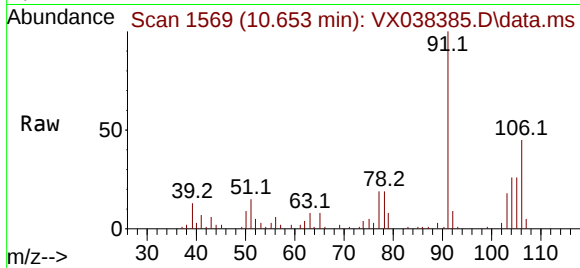
Tgt Ion:104 Resp: 4582

Ion Ratio Lower Upper

104 100

78 78.9 43.6 65.4#

103 80.8 43.6 65.4#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX038385.D

Acq: 19 Oct 2023 15:01

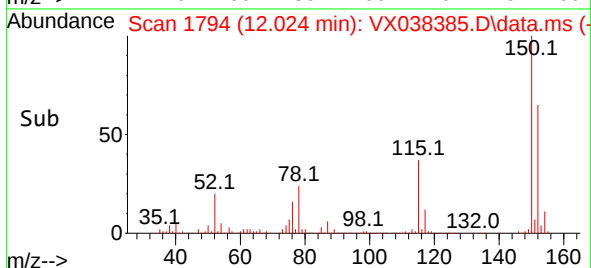
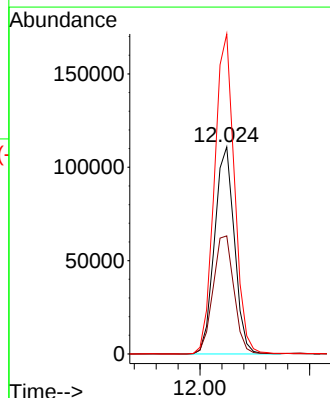
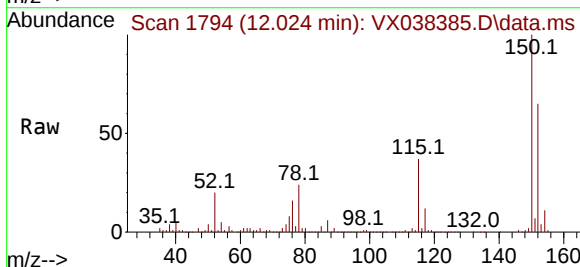
Tgt Ion:152 Resp: 139612

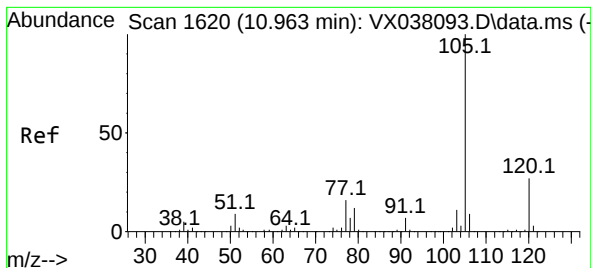
Ion Ratio Lower Upper

152 100

115 60.0 43.3 129.9

150 155.9 0.0 345.0





#73

Isopropylbenzene

Concen: 1.235 ug/l

RT: 10.964 min Scan# 1

Delta R.T. 0.001 min

Lab File: VX038385.D

Acq: 19 Oct 2023 15:01

Instrument :

MSVOA_X

ClientSampleId :

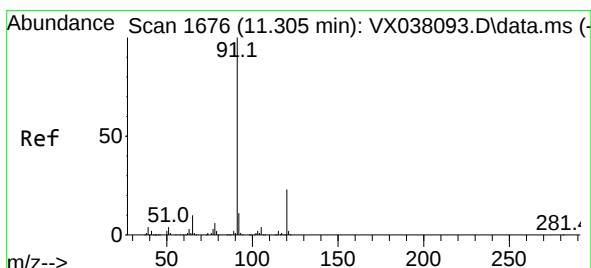
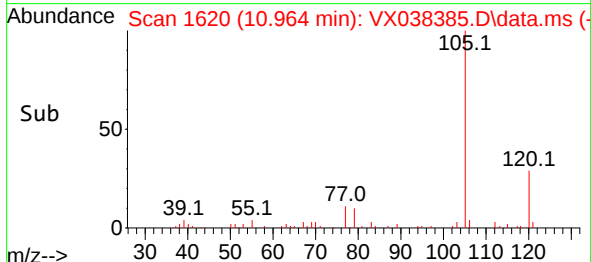
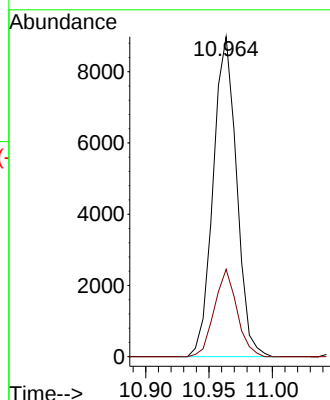
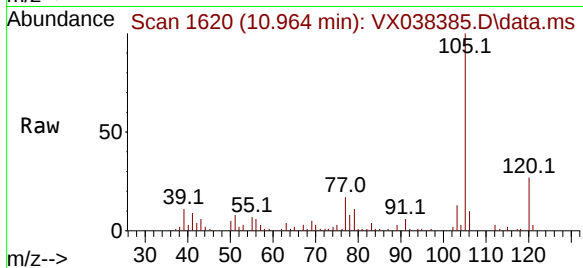
231013059-VOA

Tgt Ion:105 Resp: 11566

Ion Ratio Lower Upper

105 100

120 26.3 12.9 38.6



#78

n-propylbenzene

Concen: 0.371 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX038385.D

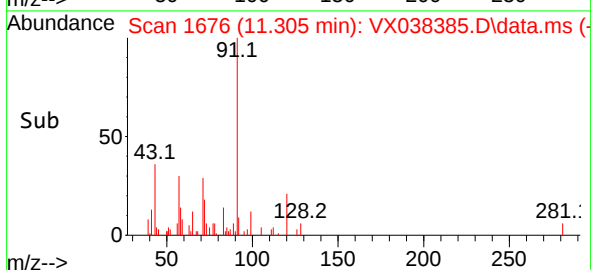
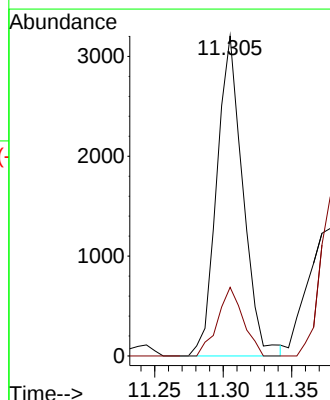
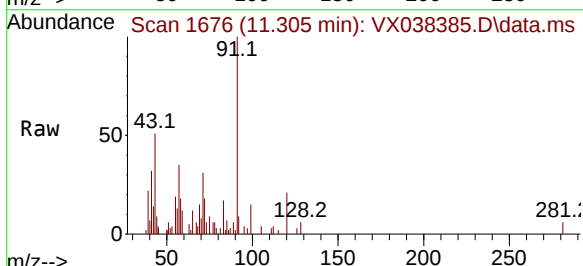
Acq: 19 Oct 2023 15:01

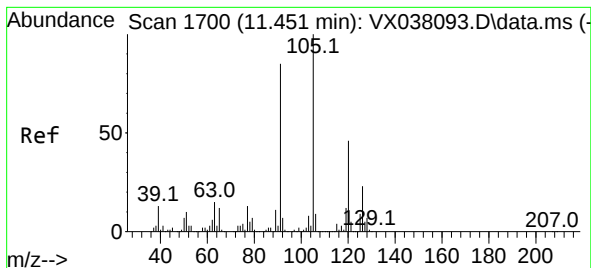
Tgt Ion: 91 Resp: 4248

Ion Ratio Lower Upper

91 100

120 21.0 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 0.514 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX038385.D

Acq: 19 Oct 2023 15:01

Instrument :

MSVOA_X

ClientSampleId :

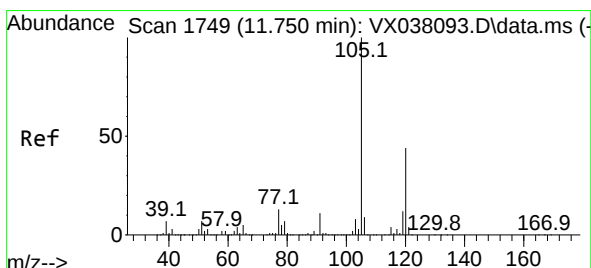
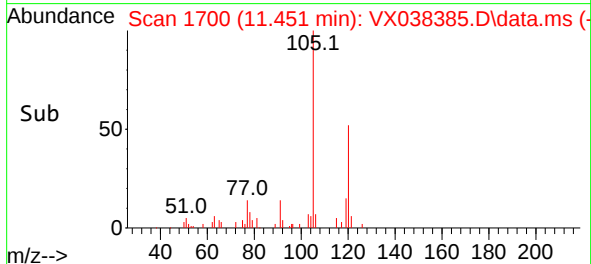
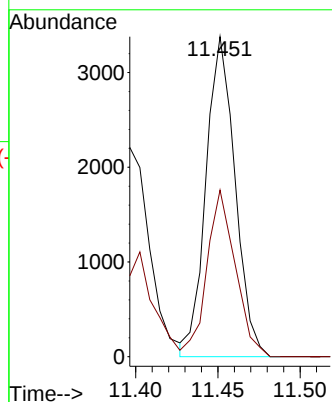
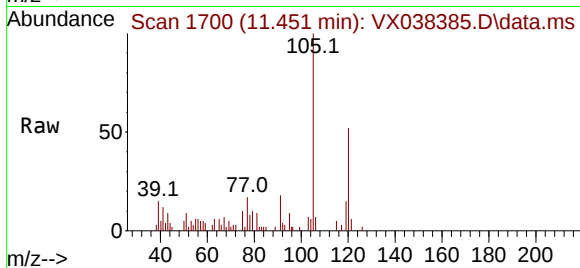
231013059-VOA

Tgt Ion:105 Resp: 4151

Ion Ratio Lower Upper

105 100

120 51.0 24.1 72.3



#84

1,2,4-Trimethylbenzene

Concen: 2.278 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX038385.D

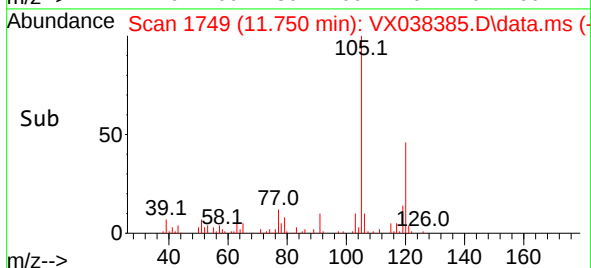
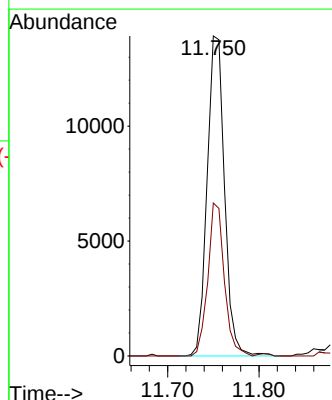
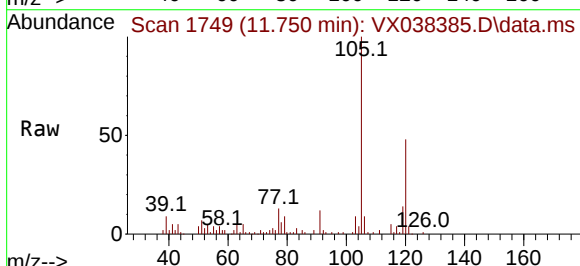
Acq: 19 Oct 2023 15:01

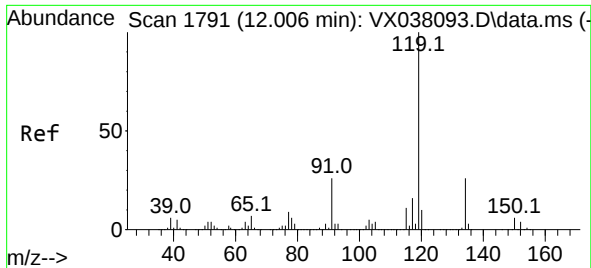
Tgt Ion:105 Resp: 18350

Ion Ratio Lower Upper

105 100

120 45.4 21.2 63.6

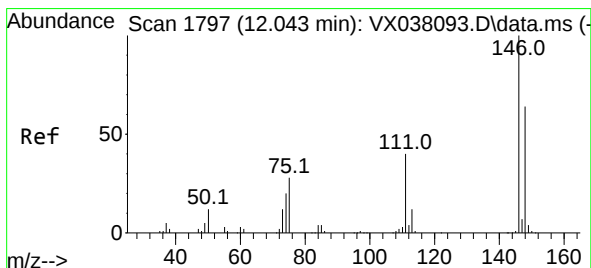
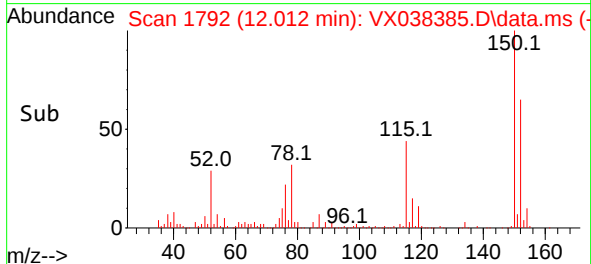
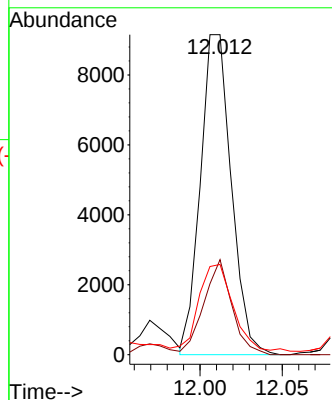
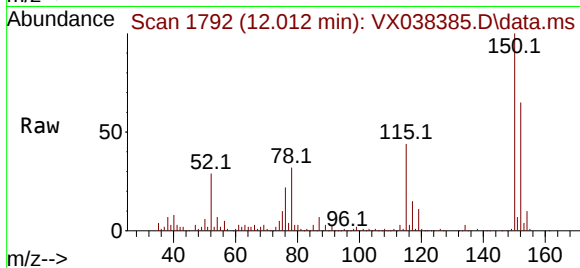




#86
p-Isopropyltoluene
Concen: 1.420 ug/l
RT: 12.012 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

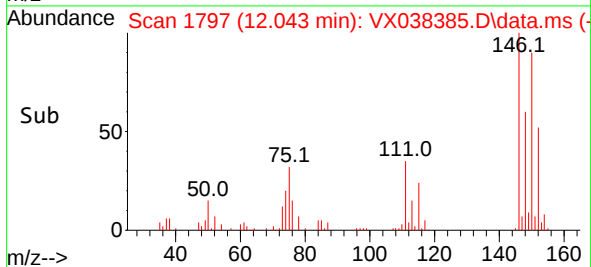
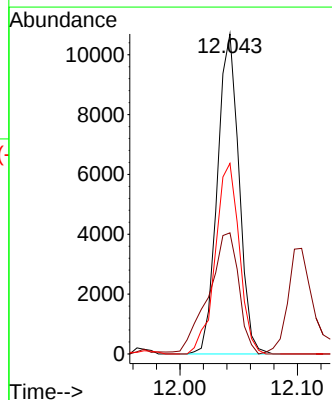
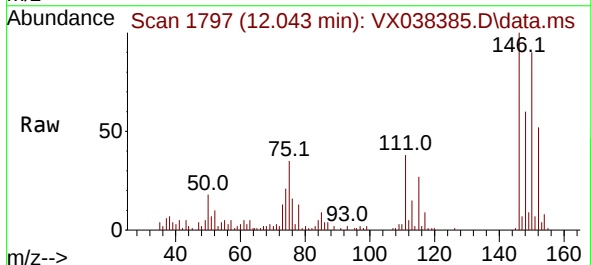
Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA

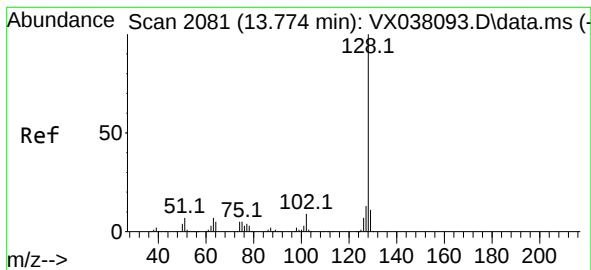
Tgt Ion:119 Resp: 11976
Ion Ratio Lower Upper
119 100
134 26.8 12.8 38.3
91 30.6 13.1 39.3



#88
1,4-Dichlorobenzene
Concen: 2.916 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

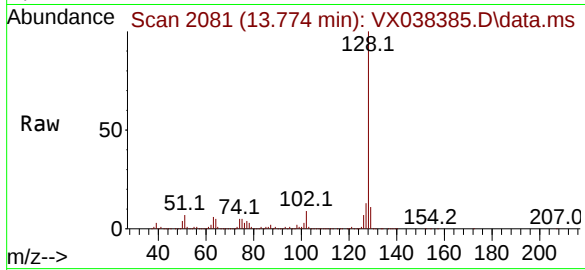
Tgt Ion:146 Resp: 13668
Ion Ratio Lower Upper
146 100
111 53.1 21.3 63.7
148 66.1 31.8 95.4





#95
Naphthalene
Concen: 25.255 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX038385.D
Acq: 19 Oct 2023 15:01

Instrument :
MSVOA_X
ClientSampleId :
231013059-VOA



Tgt Ion:128 Resp: 260334
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 10.9 8.8 13.2

