

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081823\
 Data File : VX037075.D
 Acq On : 18 Aug 2023 11:31
 Operator : JC/MD
 Sample : 04009-02RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 19 05:14:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

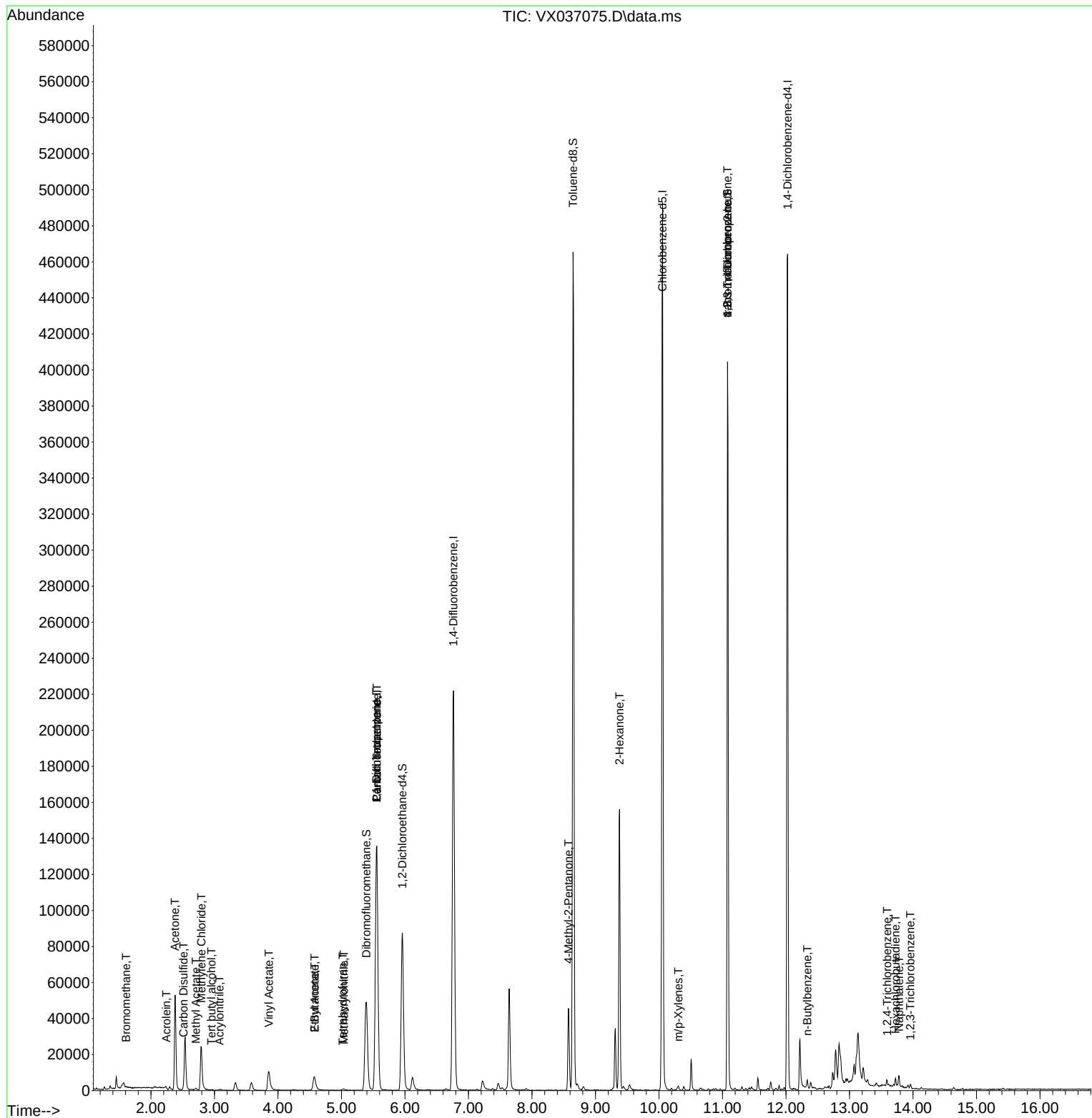
Internal Standards						
1) Pentafluorobenzene	5.556	168	126957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	233138	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	224015	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	99081	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	87857	48.001	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.000%		
35) Dibromofluoromethane	5.391	113	44323	28.706	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	57.420%#		
50) Toluene-d8	8.647	98	279285	49.866	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.740%		
62) 4-Bromofluorobenzene	11.079	95	112380	51.058	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	102.120%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.605	94	208	0.297	ug/l	99
11) Tert butyl alcohol	2.953	59	280	0.652	ug/l #	78
13) Acrolein	2.239	56	407	1.246	ug/l #	68
15) Acrylonitrile	3.081	53	223	0.291	ug/l #	69
16) Acetone	2.380	43	56030	78.250	ug/l	93
17) Carbon Disulfide	2.514	76	2112	0.635	ug/l #	92
18) Methyl Acetate	2.709	43	1546	0.573	ug/l #	90
20) Methylene Chloride	2.794	84	12989	8.112	ug/l	86
23) Vinyl Acetate	3.855	43	1981	0.623	ug/l #	73
25) 2-Butanone	4.574	43	8139	7.549	ug/l #	85
29) Tetrahydrofuran	5.019	42	570	0.829	ug/l #	59
36) 1,1-Dichloropropene	5.550	75	10493	4.783	ug/l #	50
37) Ethyl Acetate	4.574	43	8139	3.632	ug/l #	71
38) Carbon Tetrachloride	5.556	117	13462	5.649	ug/l #	15
41) Methacrylonitrile	5.038	41	382	0.328	ug/l #	36
51) 4-Methyl-2-Pentanone	8.574	43	25673	11.884	ug/l	94
59) 2-Hexanone	9.378	43	98406	59.744	ug/l #	26
68) m/p-Xylenes	10.305	106	672	0.209	ug/l	99
76) 1,2,3-Trichloropropane	11.079	75	57245	27.129	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	57245	75.773	ug/l #	5
89) n-Butylbenzene	12.335	91	1659	0.347	ug/l	93
93) 1,2,4-Trichlorobenzene	13.591	180	827	0.438	ug/l	83
94) Hexachlorobutadiene	13.725	225	695	0.954	ug/l	93
95) Naphthalene	13.780	128	4818	0.583	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	743	0.396	ug/l	99

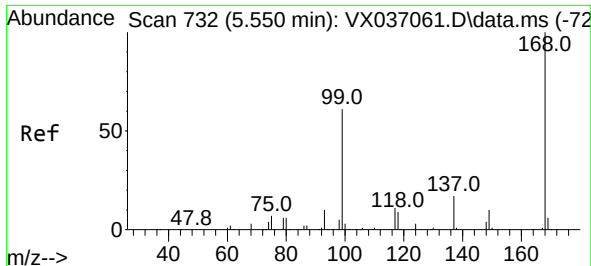
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 18 09:30:38 2023
Response via : Initial Calibration

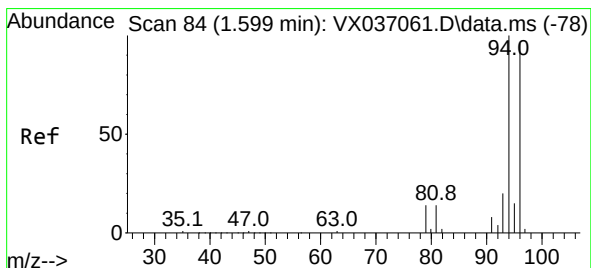
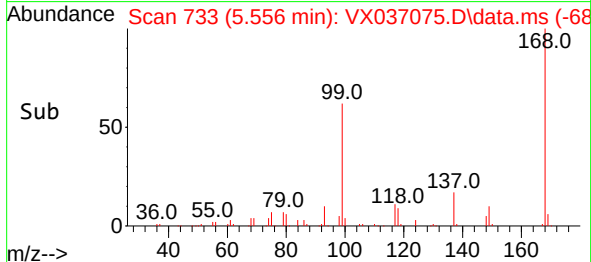
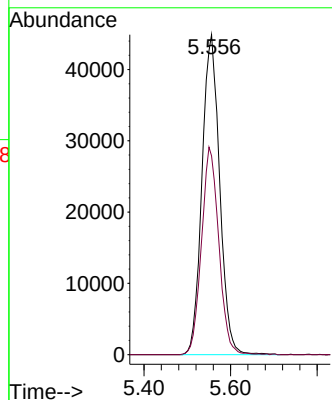
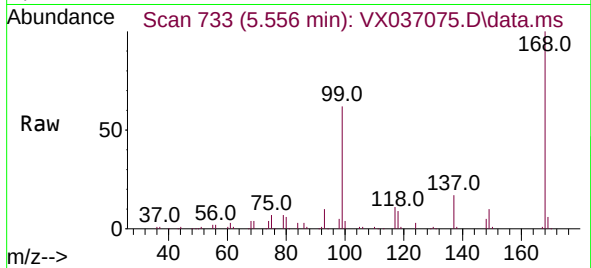




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

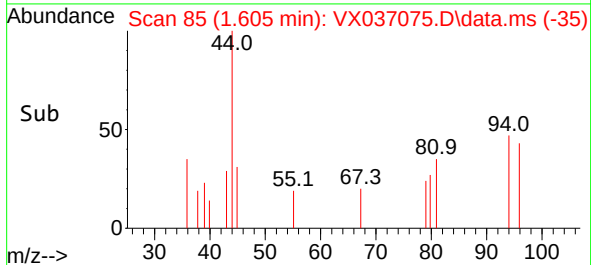
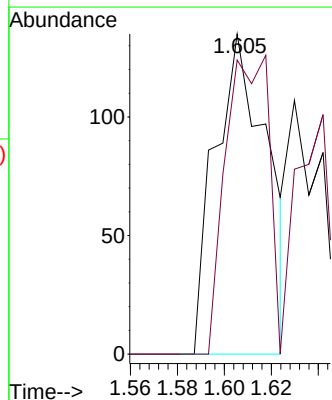
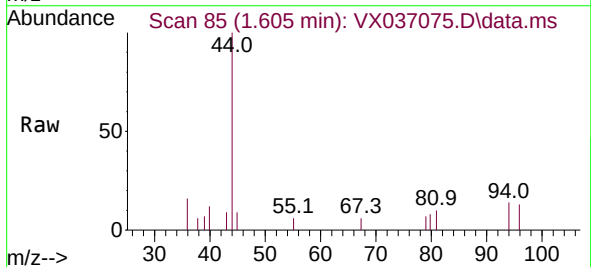
Instrument :
MSVOA_X
ClientSampleId :

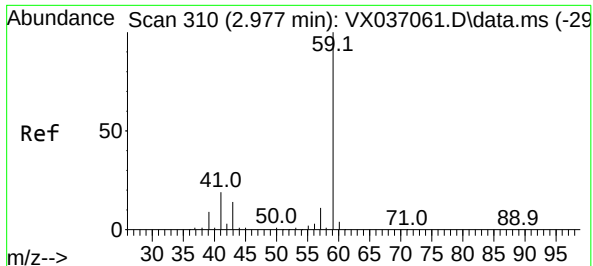
Tgt Ion:168 Resp: 126957
Ion Ratio Lower Upper
168 100
99 62.1 56.6 85.0



#5
Bromomethane
Concen: 0.297 ug/l
RT: 1.605 min Scan# 85
Delta R.T. 0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Tgt Ion: 94 Resp: 208
Ion Ratio Lower Upper
94 100
96 91.9 74.6 111.8





#11

Tert butyl alcohol

Concen: 0.652 ug/l

RT: 2.953 min Scan# 306

Delta R.T. -0.024 min

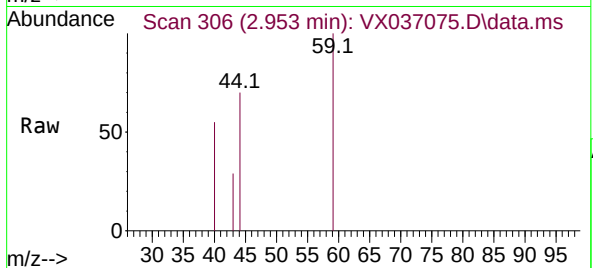
Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

Instrument :

MSVOA_X

ClientSampleId :

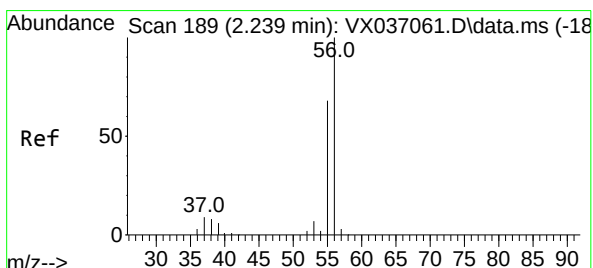
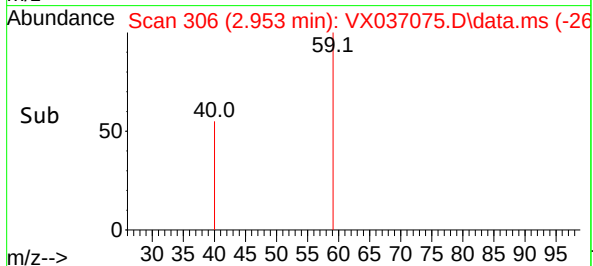
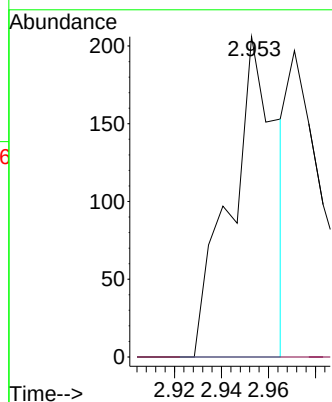


Tgt Ion: 59 Resp: 280

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 1.246 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX037075.D

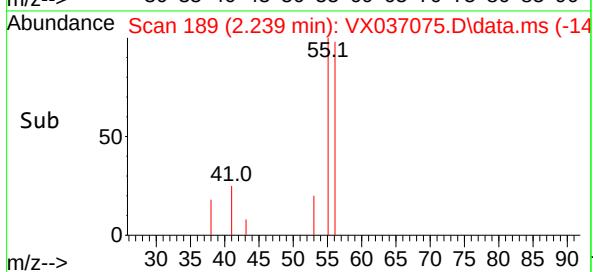
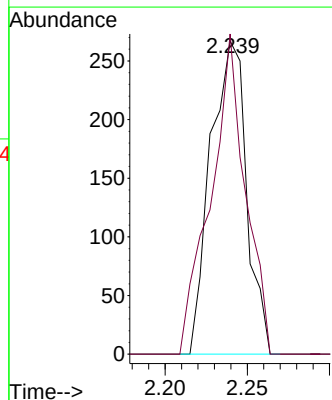
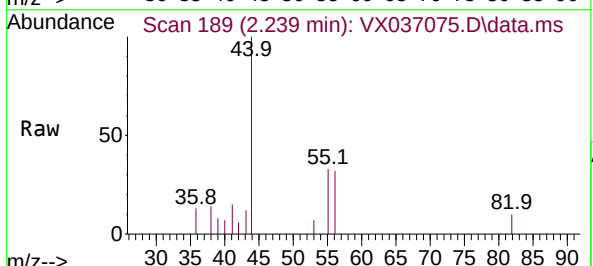
Acq: 18 Aug 2023 11:31

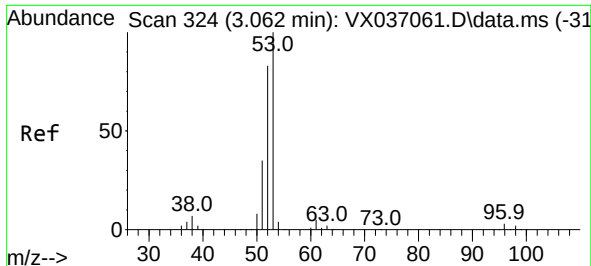
Tgt Ion: 56 Resp: 407

Ion Ratio Lower Upper

56 100

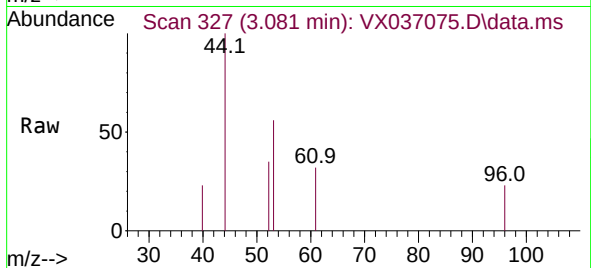
55 98.3 57.1 85.7#



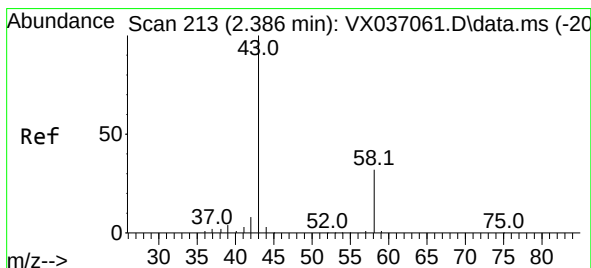
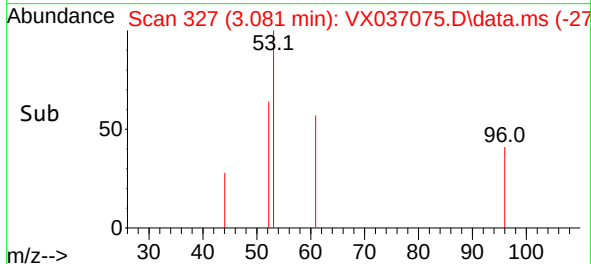
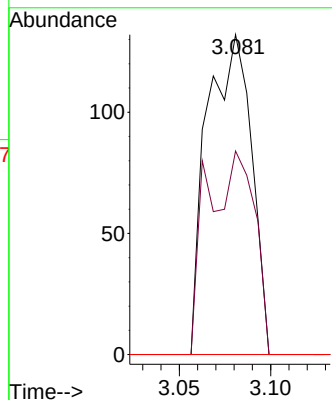


#15
Acrylonitrile
Concen: 0.291 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.018 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Instrument :
MSVOA_X
ClientSampleId :

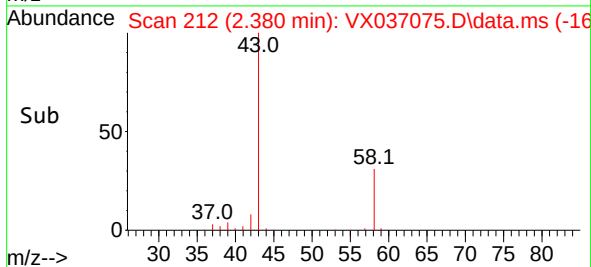
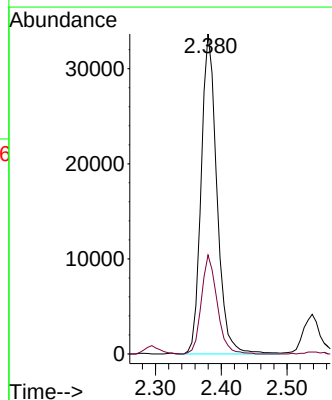
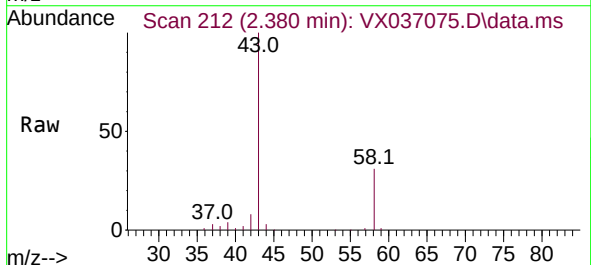


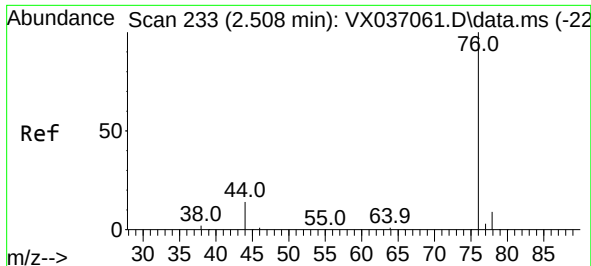
Tgt Ion: 53 Resp: 223
Ion Ratio Lower Upper
53 100
52 67.7 66.0 99.0
51 0.0 29.8 44.6#



#16
Acetone
Concen: 78.250 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

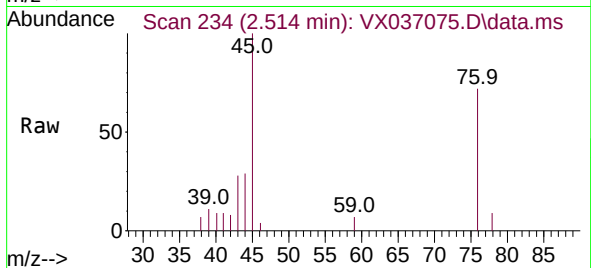
Tgt Ion: 43 Resp: 56030
Ion Ratio Lower Upper
43 100
58 30.9 21.9 32.9



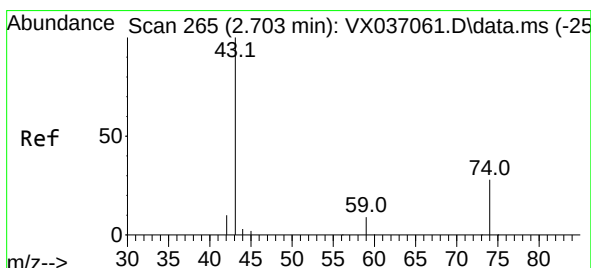
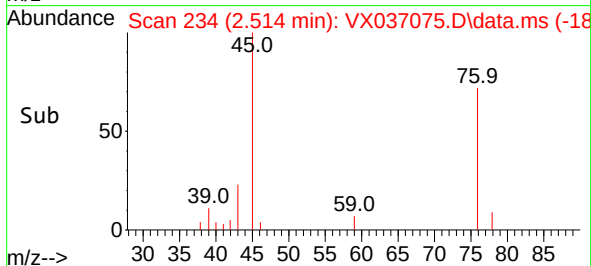
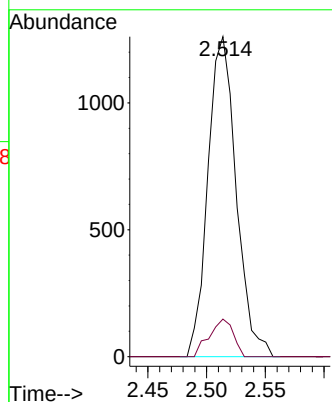


#17
Carbon Disulfide
Concen: 0.635 ug/l
RT: 2.514 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Instrument :
MSVOA_X
ClientSampleId :

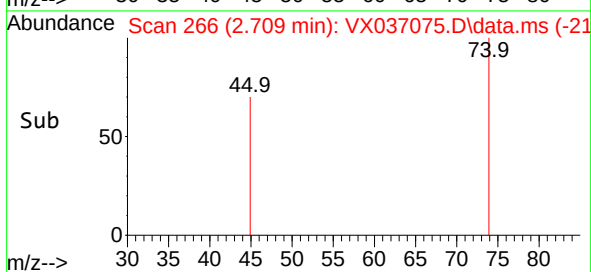
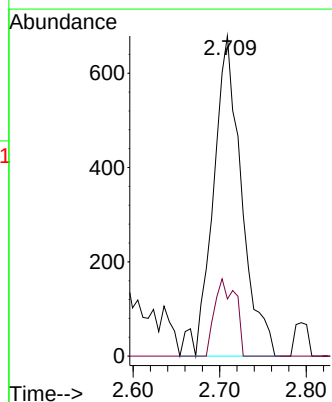
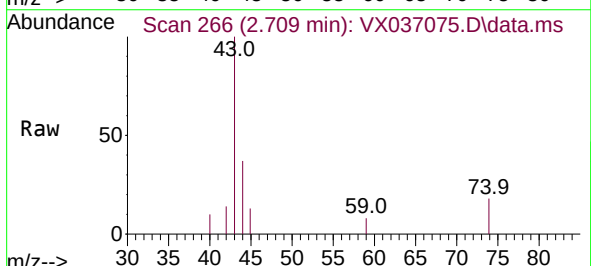


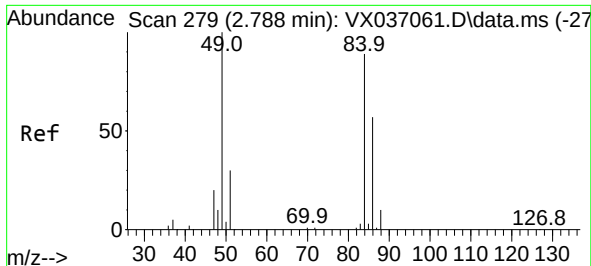
Tgt Ion: 76 Resp: 2112
Ion Ratio Lower Upper
76 100
78 11.7 7.0 10.6#



#18
Methyl Acetate
Concen: 0.573 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

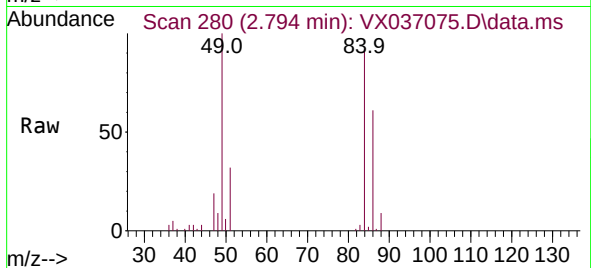
Tgt Ion: 43 Resp: 1546
Ion Ratio Lower Upper
43 100
74 17.7 17.8 26.8#



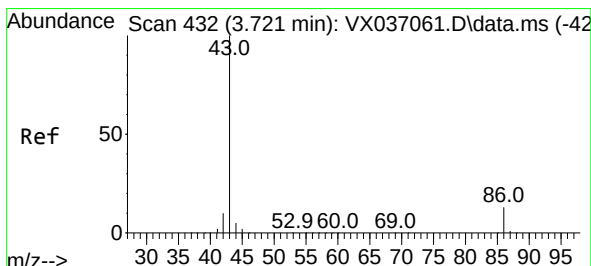
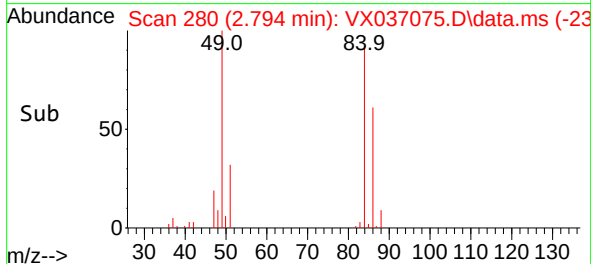
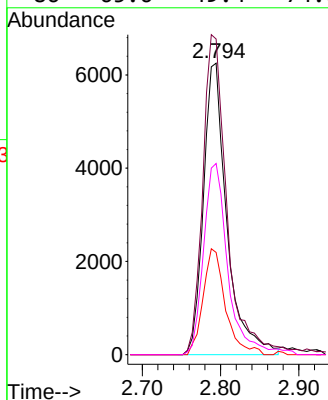


#20
Methylene Chloride
Concen: 8.112 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Instrument :
MSVOA_X
ClientSampleId :

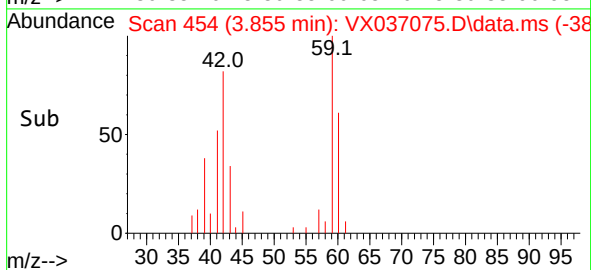
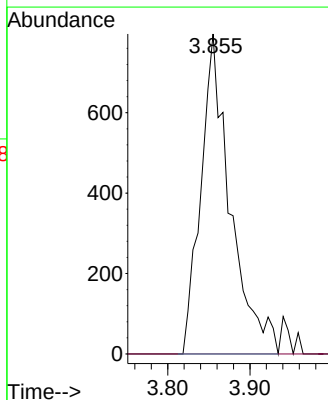
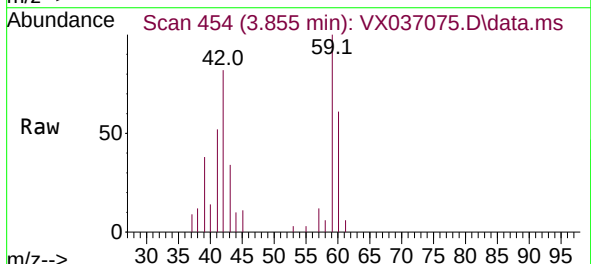


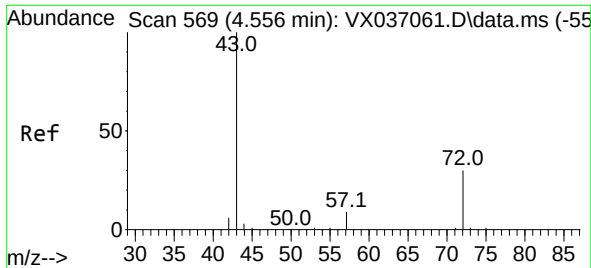
Tgt Ion:	84	Resp:	12989
Ion	Ratio	Lower	Upper
84	100		
49	108.3	103.6	155.4
51	35.1	33.8	50.6
86	65.6	49.4	74.0



#23
Vinyl Acetate
Concen: 0.623 ug/l
RT: 3.855 min Scan# 454
Delta R.T. 0.134 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Tgt Ion:	43	Resp:	1981
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.8	11.8#

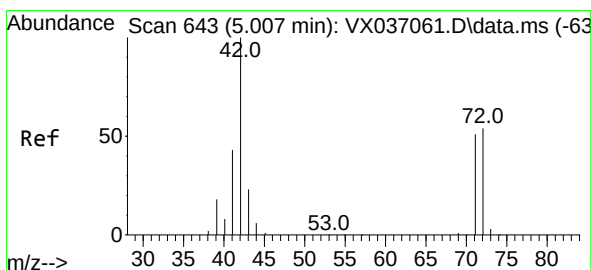
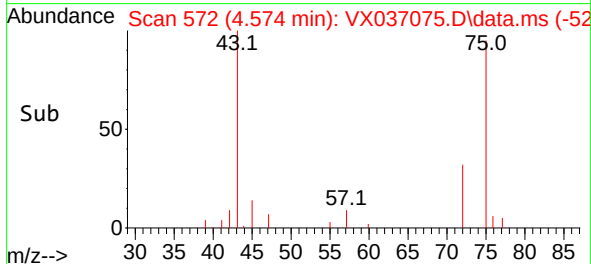
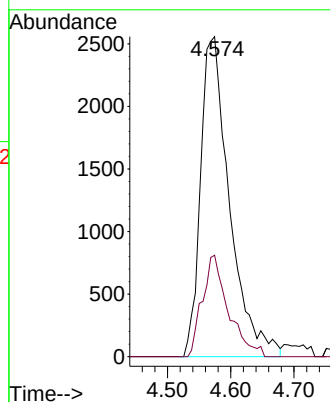
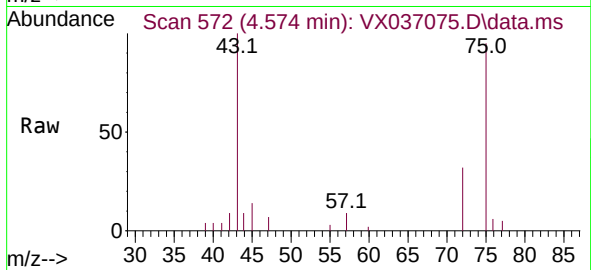




#25
2-Butanone
Concen: 7.549 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

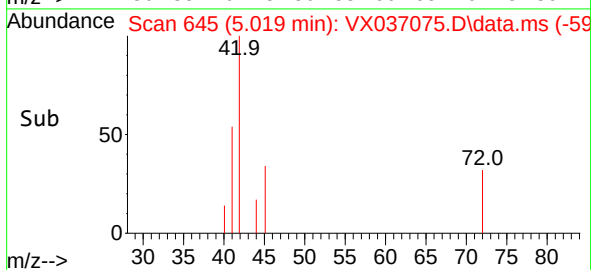
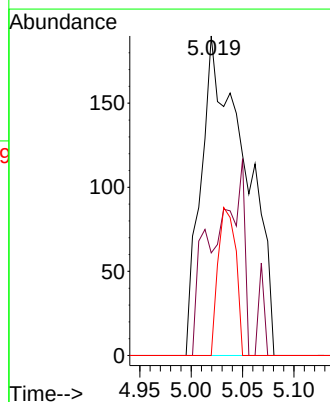
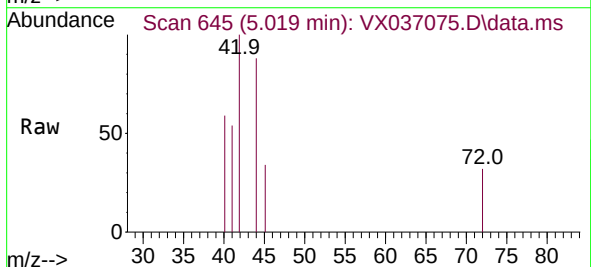
Instrument :
MSVOA_X
ClientSampleId :

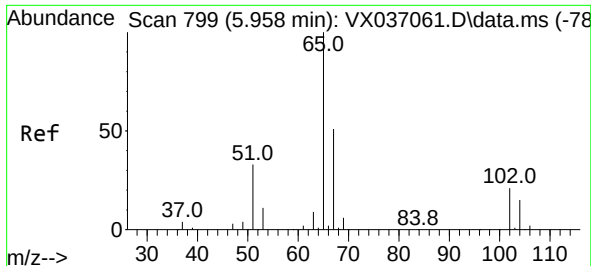
Tgt Ion: 43 Resp: 8139
Ion Ratio Lower Upper
43 100
72 31.7 19.4 29.2#



#29
Tetrahydrofuran
Concen: 0.829 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.012 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Tgt Ion: 42 Resp: 570
Ion Ratio Lower Upper
42 100
72 13.2 34.2 51.4#
71 18.4 32.2 48.2#

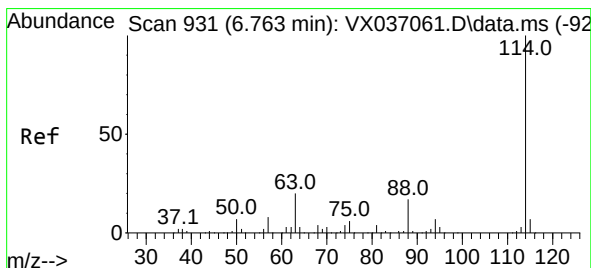
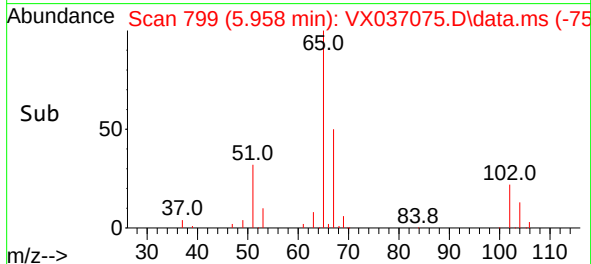
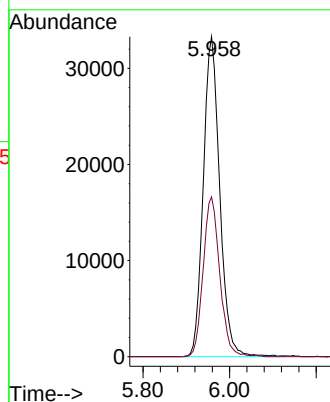
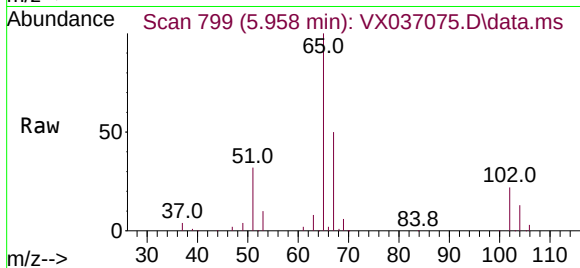




#33
 1,2-Dichloroethane-d4
 Concen: 48.001 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.000 min
 Lab File: VX037075.D
 Acq: 18 Aug 2023 11:31

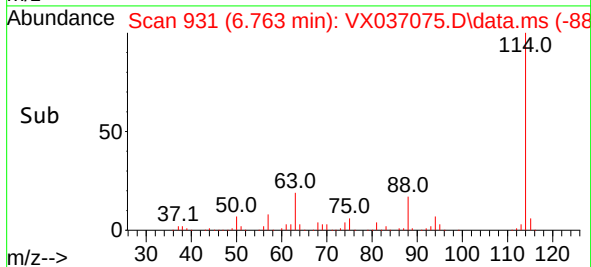
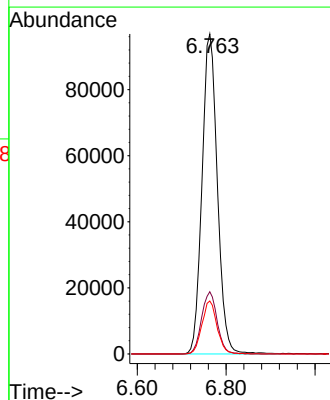
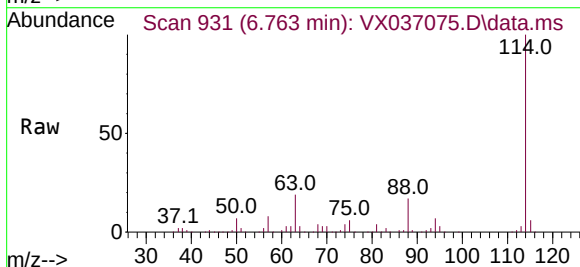
Instrument :
 MSVOA_X
 ClientSampleId :

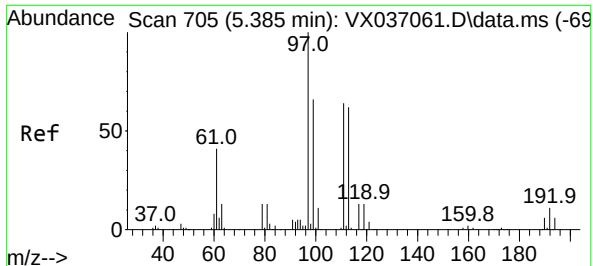
Tgt Ion: 65 Resp: 87857
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX037075.D
 Acq: 18 Aug 2023 11:31

Tgt Ion: 114 Resp: 233138
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 45.0
 88 16.5 0.0 36.6





#35

Dibromofluoromethane

Concen: 28.706 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

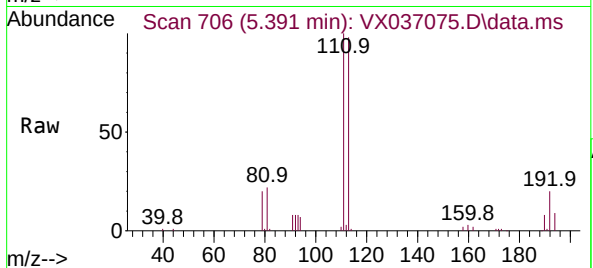
Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

Instrument :

MSVOA_X

ClientSampleId :



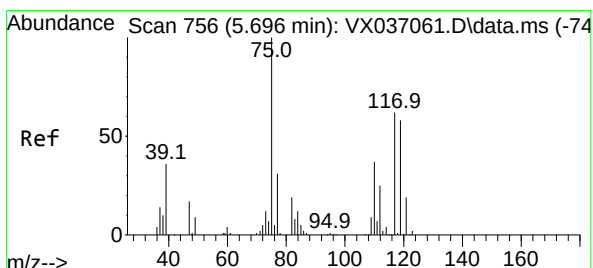
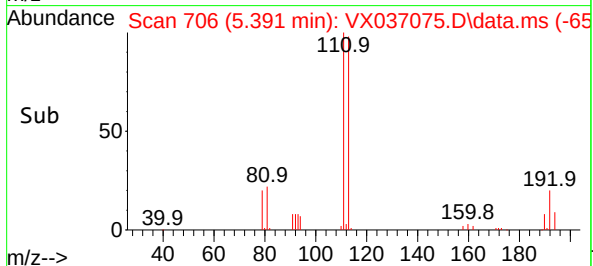
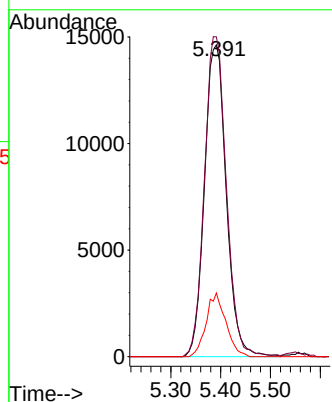
Tgt Ion:113 Resp: 44323

Ion Ratio Lower Upper

113 100

111 103.7 82.9 124.3

192 18.5 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.783 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

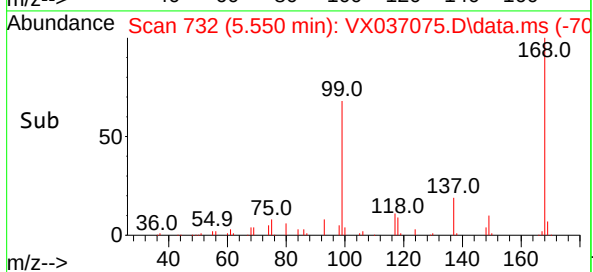
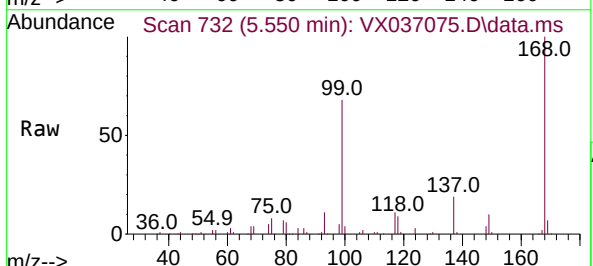
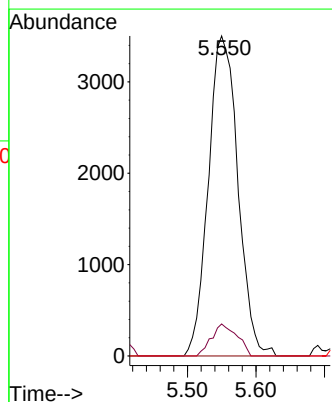
Tgt Ion: 75 Resp: 10493

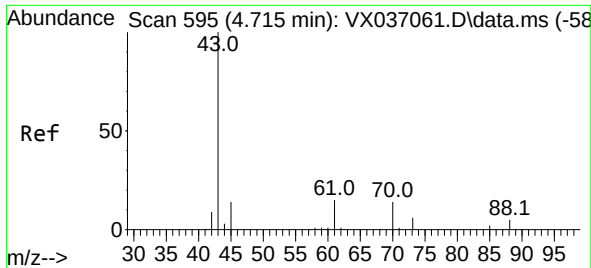
Ion Ratio Lower Upper

75 100

110 8.7 17.0 50.9#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 3.632 ug/l

RT: 4.574 min Scan# 51

Delta R.T. -0.140 min

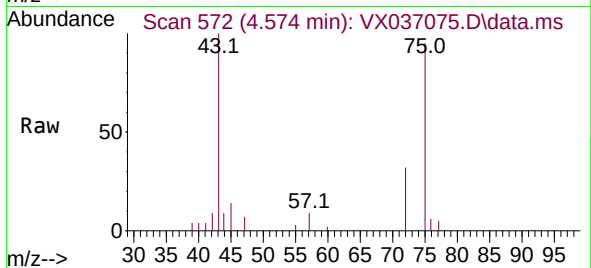
Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

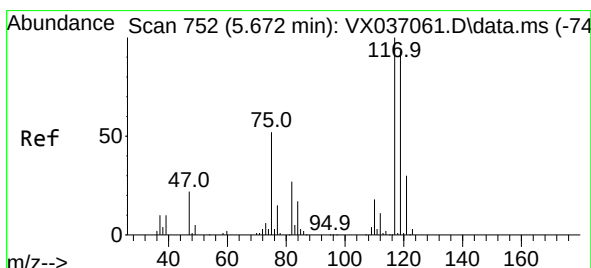
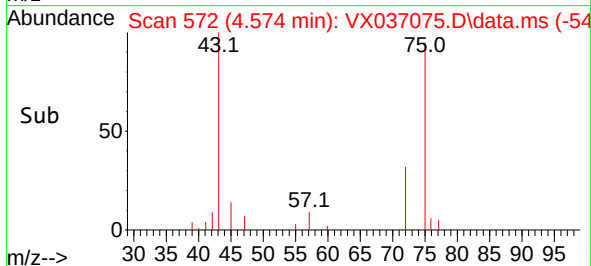
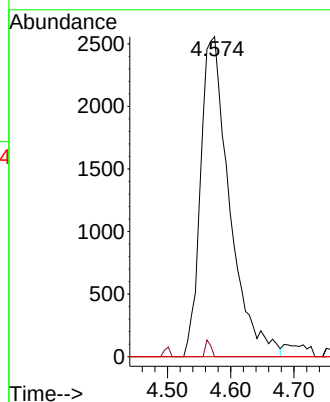
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	43	Resp:	8139
Ion	Ratio	Lower	Upper
43	100		
61	1.0	10.6	16.0#
70	0.0	8.3	12.5#



#38

Carbon Tetrachloride

Concen: 5.649 ug/l

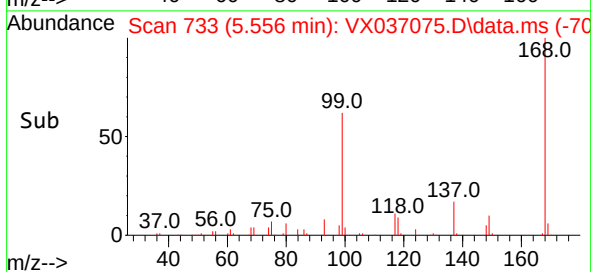
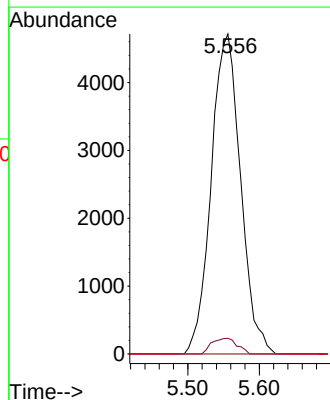
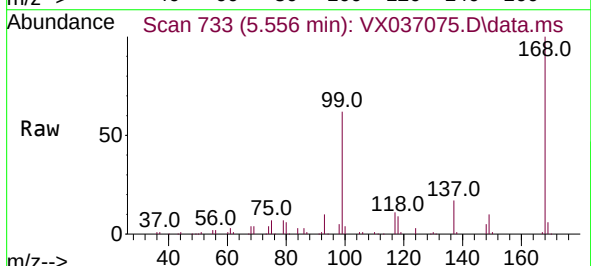
RT: 5.556 min Scan# 733

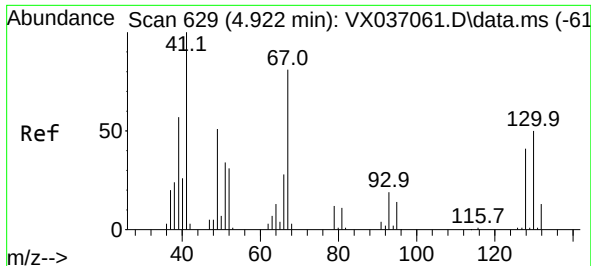
Delta R.T. -0.116 min

Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

Tgt Ion:	117	Resp:	13462
Ion	Ratio	Lower	Upper
117	100		
119	4.9	78.2	117.2#
121	0.0	24.4	36.6#

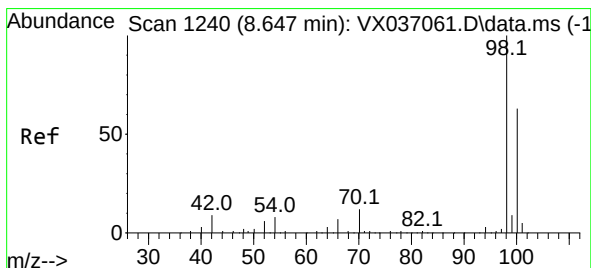
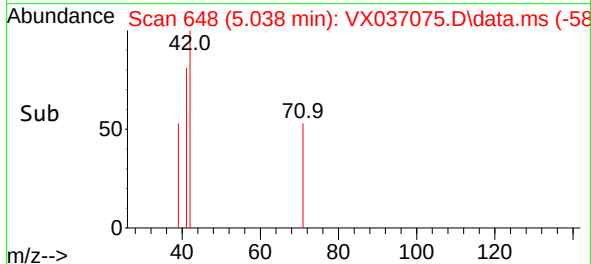
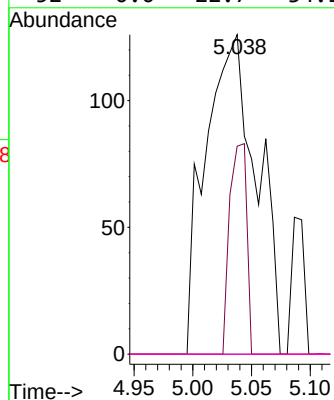
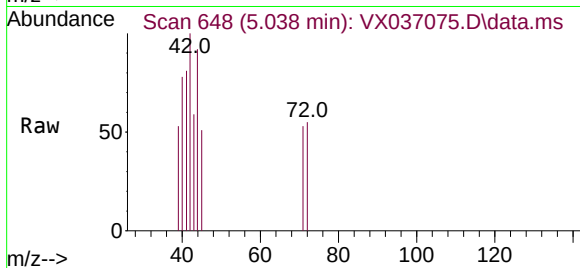




#41
Methacrylonitrile
Concen: 0.328 ug/l
RT: 5.038 min Scan# 64
Delta R.T. 0.116 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

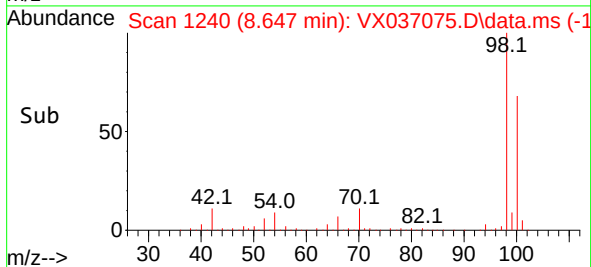
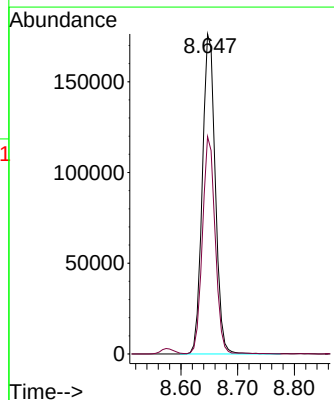
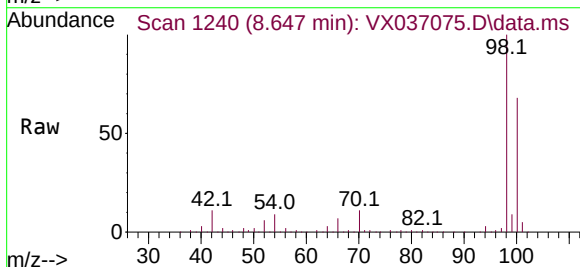
Instrument :
MSVOA_X
ClientSampleId :

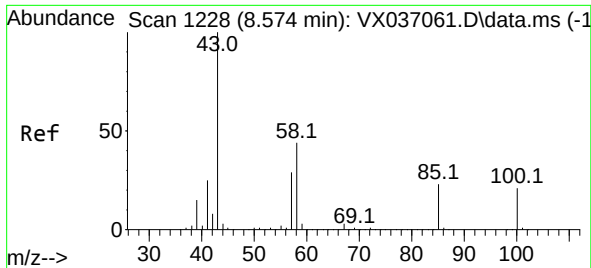
Tgt Ion: 41 Resp: 382
Ion Ratio Lower Upper
41 100
39 21.7 45.2 67.8#
67 0.0 52.6 78.8#
52 0.0 22.7 34.1#



#50
Toluene-d8
Concen: 49.866 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Tgt Ion: 98 Resp: 279285
Ion Ratio Lower Upper
98 100
100 67.0 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 11.884 ug/l

RT: 8.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

Instrument :

MSVOA_X

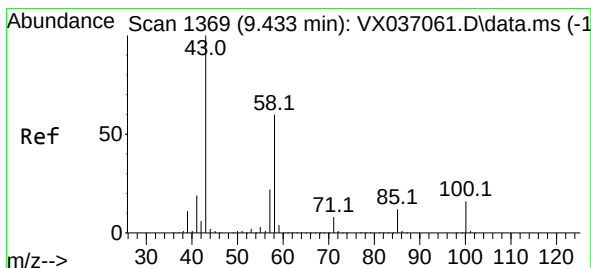
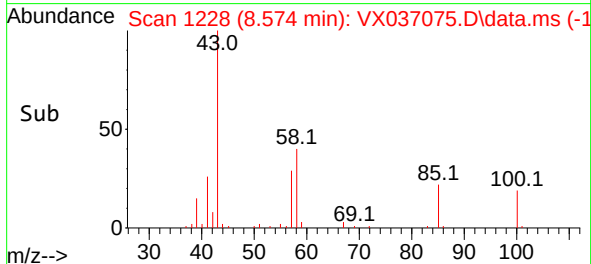
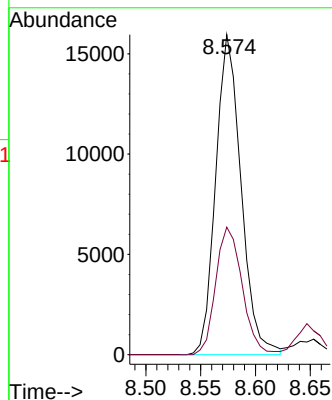
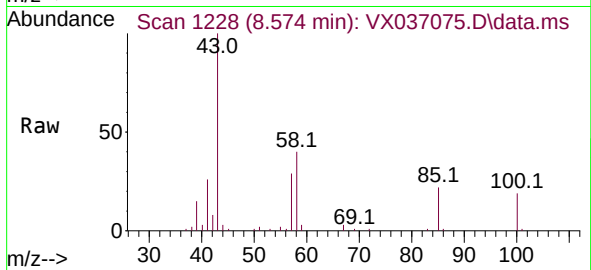
ClientSampleId :

Tgt Ion: 43 Resp: 25673

Ion Ratio Lower Upper

43 100

58 41.6 30.4 45.6



#59

2-Hexanone

Concen: 59.744 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.055 min

Lab File: VX037075.D

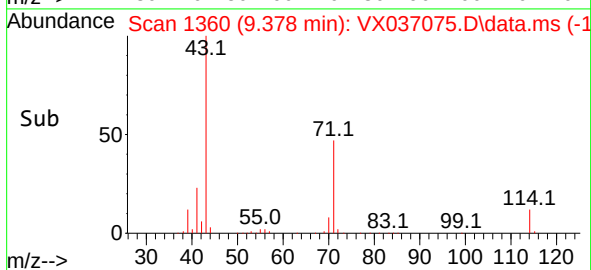
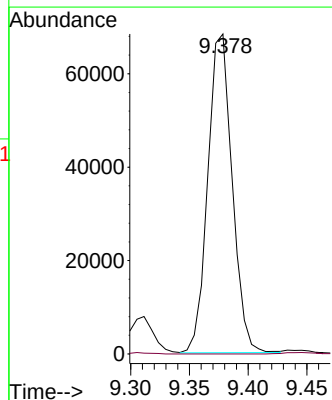
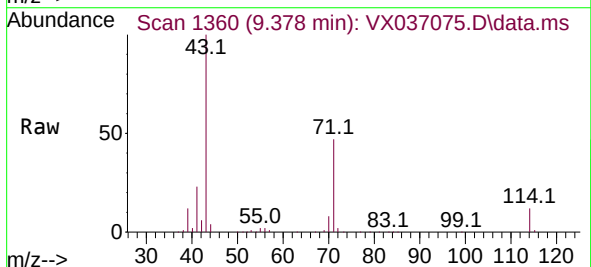
Acq: 18 Aug 2023 11:31

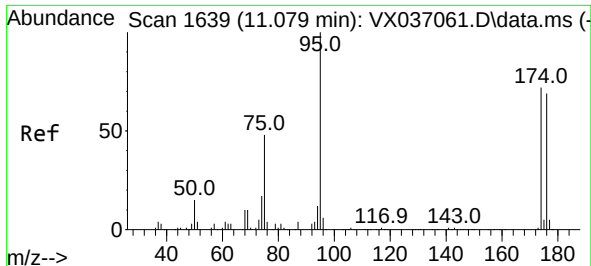
Tgt Ion: 43 Resp: 98406

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

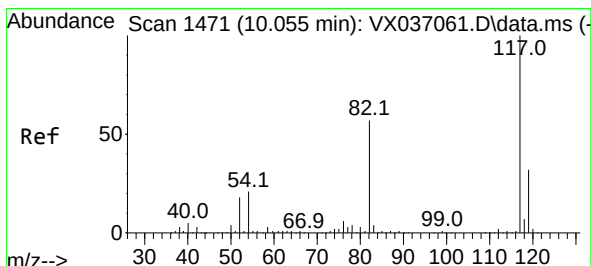
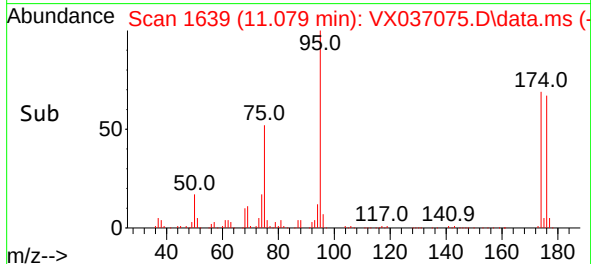
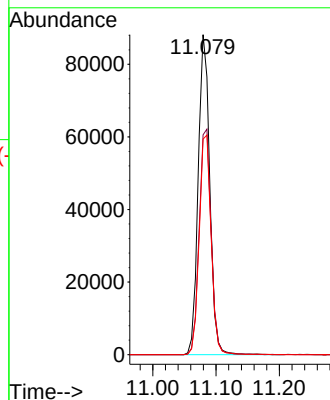
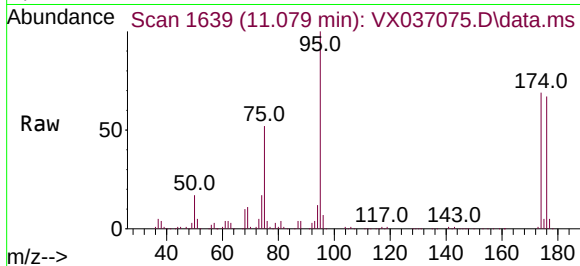




#62
4-Bromofluorobenzene
Concen: 51.058 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

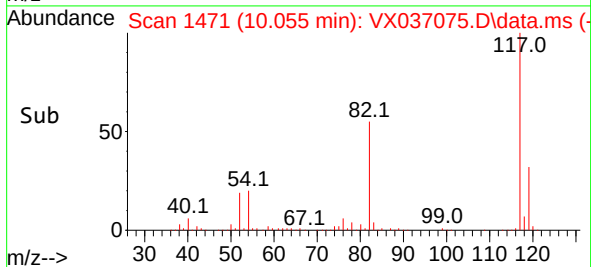
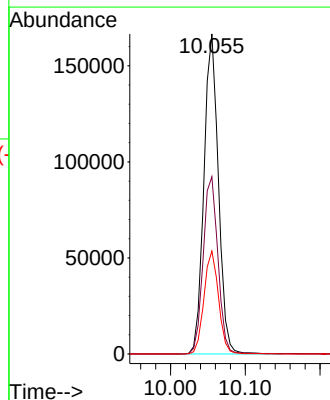
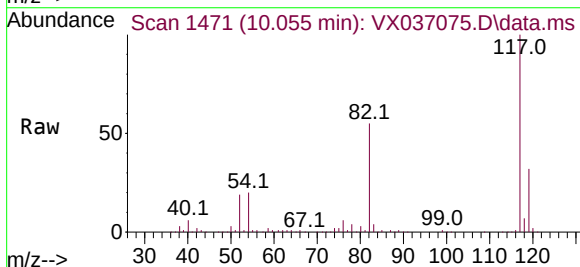
Instrument :
MSVOA_X
ClientSampleId :

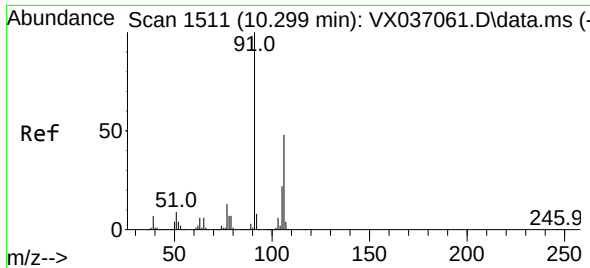
Tgt Ion: 95 Resp: 112380
Ion Ratio Lower Upper
95 100
174 73.3 0.0 135.6
176 70.6 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Tgt Ion: 117 Resp: 224015
Ion Ratio Lower Upper
117 100
82 55.4 46.2 69.4
119 32.1 25.5 38.3

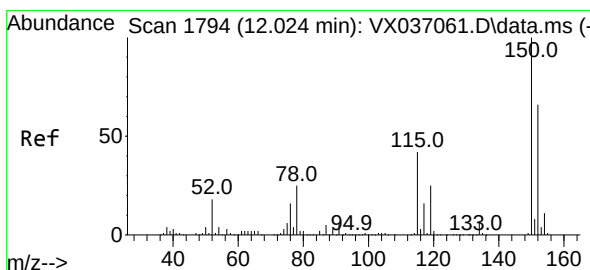
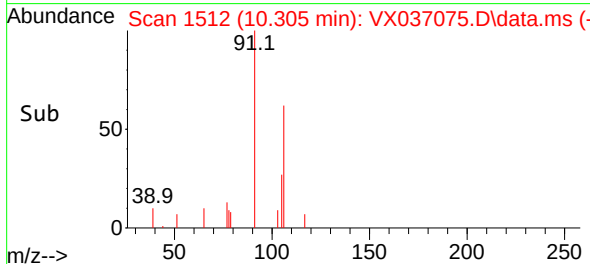
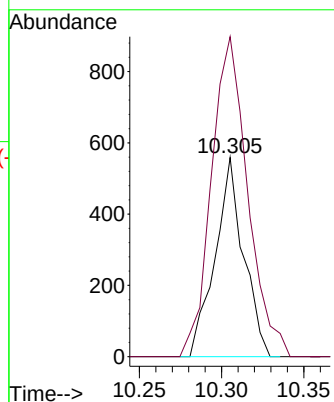
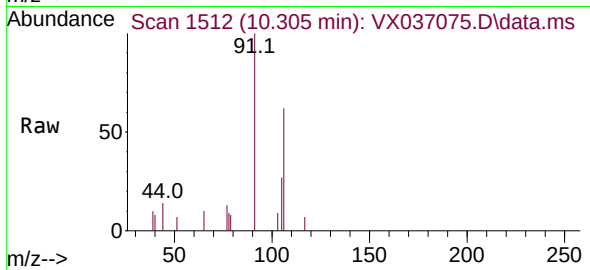




#68
m/p-Xylenes
Concen: 0.209 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

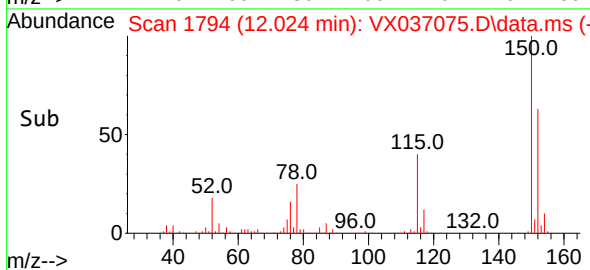
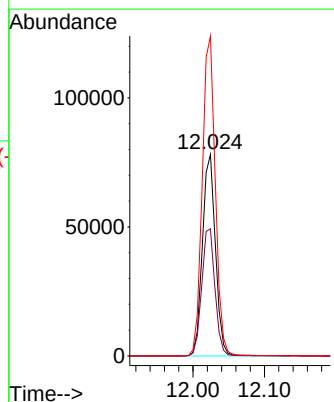
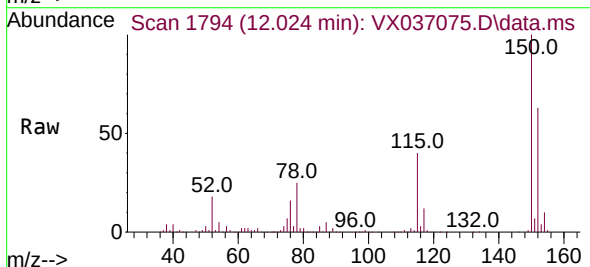
Instrument :
MSVOA_X
ClientSampleId :

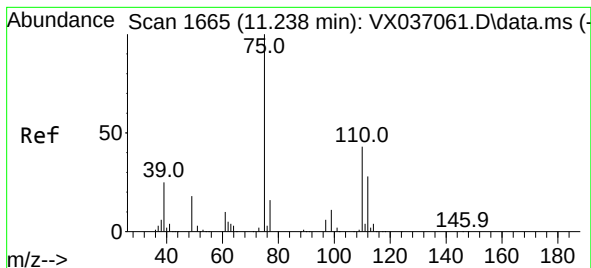
Tgt Ion:106 Resp: 672
Ion Ratio Lower Upper
106 100
91 204.9 165.5 248.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

Tgt Ion:152 Resp: 99081
Ion Ratio Lower Upper
152 100
115 64.1 43.3 129.9
150 158.7 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 27.129 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

Instrument :

MSVOA_X

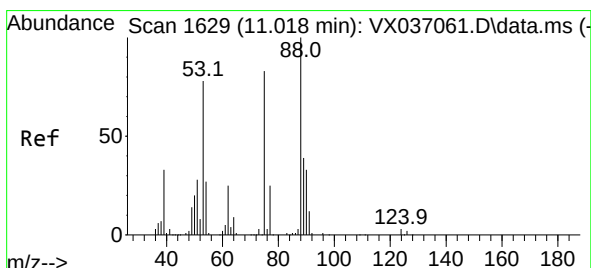
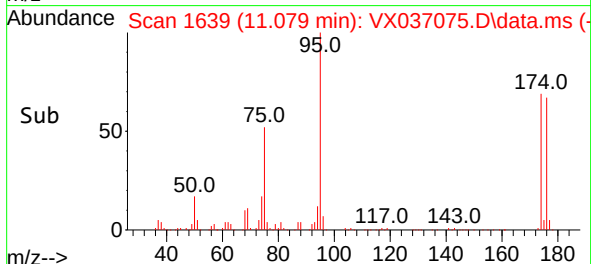
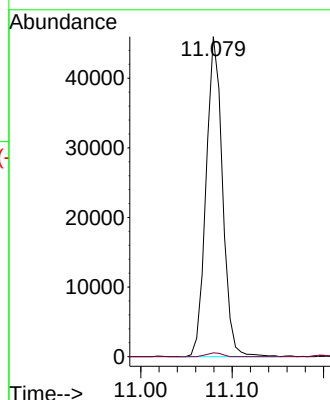
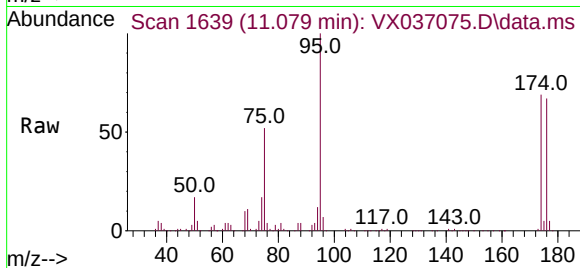
ClientSampleId :

Tgt Ion: 75 Resp: 57245

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.773 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

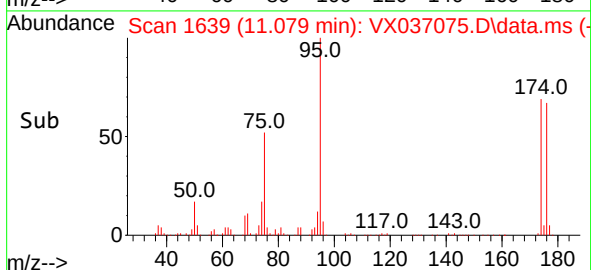
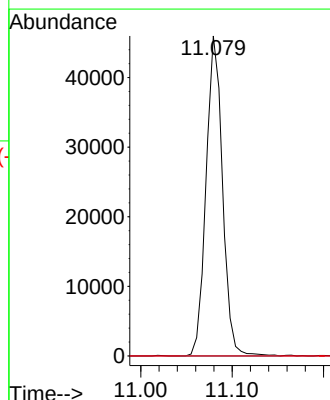
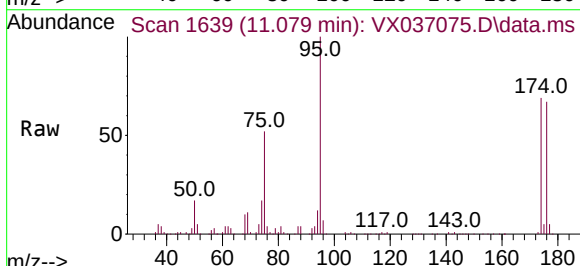
Tgt Ion: 75 Resp: 57245

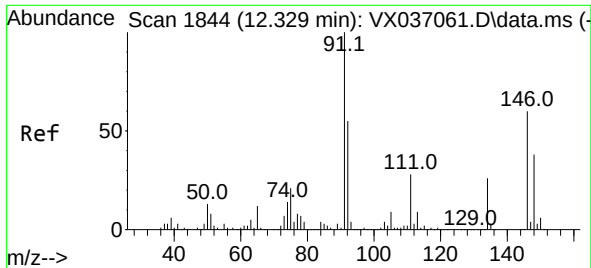
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#89

n-Butylbenzene

Concen: 0.347 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

Instrument :

MSVOA_X

ClientSampleId :

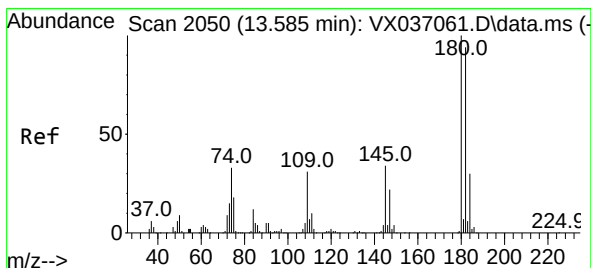
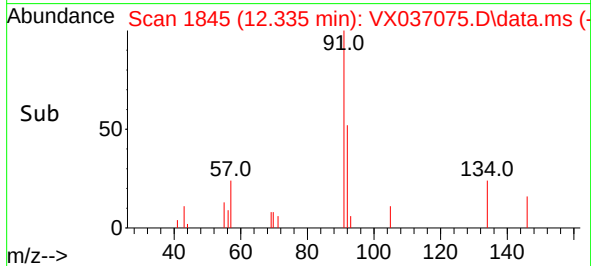
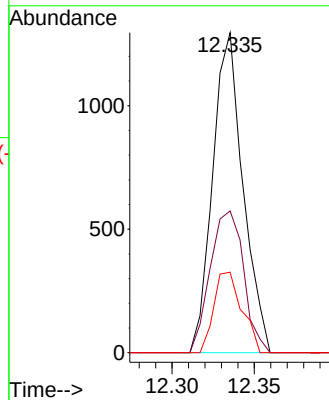
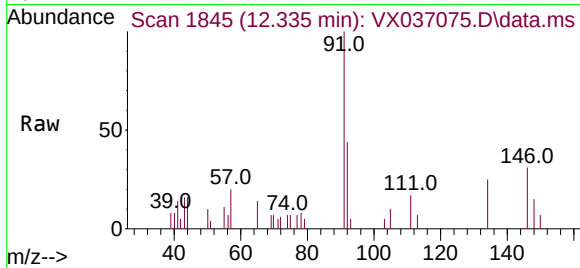
Tgt Ion: 91 Resp: 1659

Ion Ratio Lower Upper

91 100

92 48.9 27.4 82.0

134 23.3 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.438 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

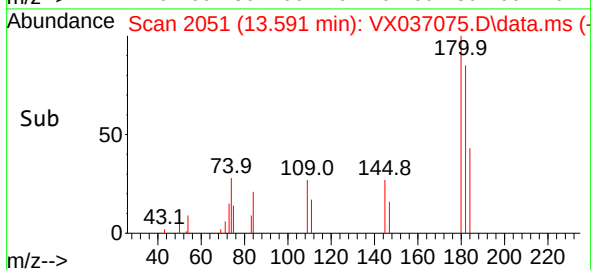
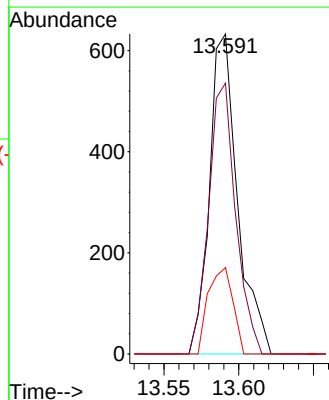
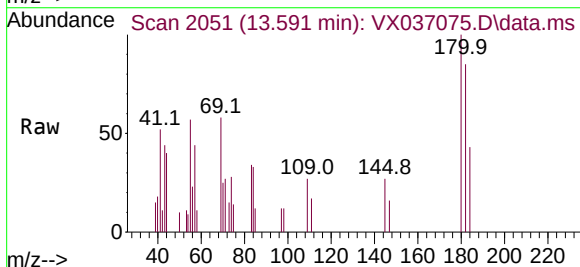
Tgt Ion:180 Resp: 827

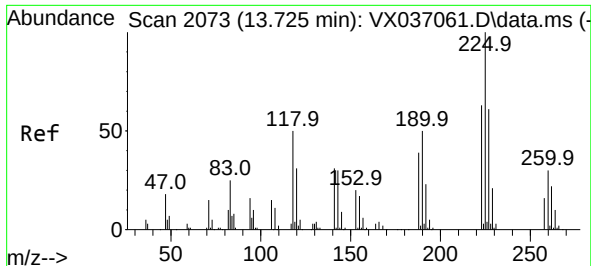
Ion Ratio Lower Upper

180 100

182 81.6 48.3 144.8

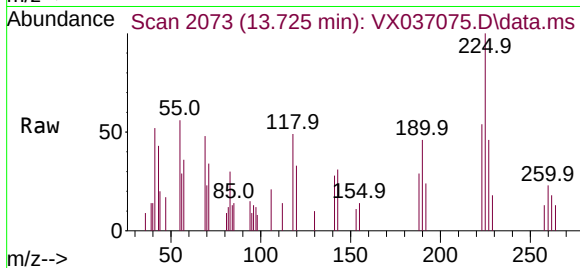
145 23.6 18.0 54.0



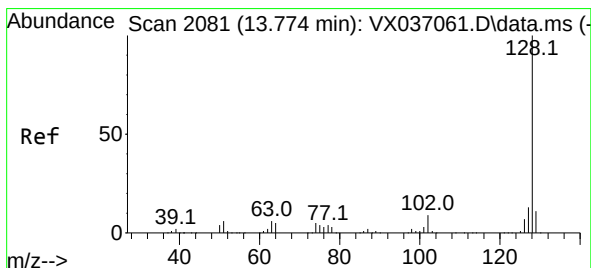
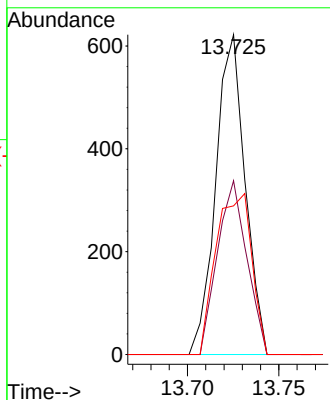
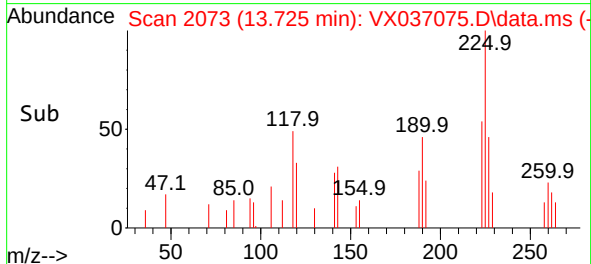


#94
Hexachlorobutadiene
Concen: 0.954 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31

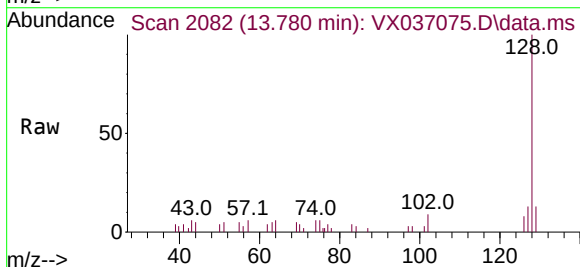
Instrument :
MSVOA_X
ClientSampleId :



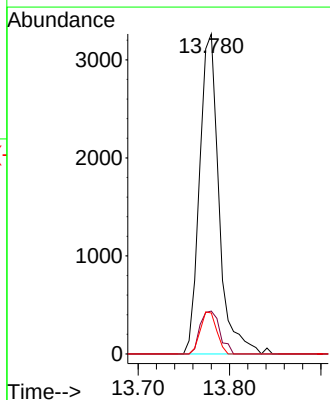
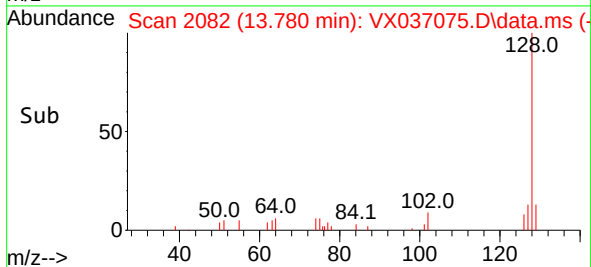
Tgt Ion:225 Resp: 695
Ion Ratio Lower Upper
225 100
223 54.4 31.1 93.2
227 61.0 32.5 97.5

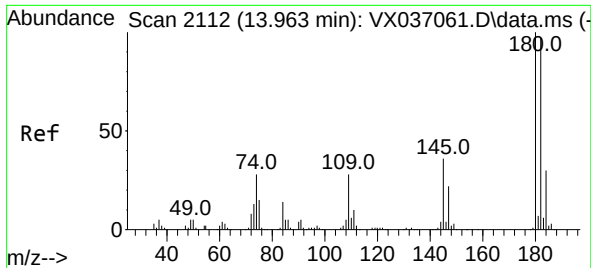


#95
Naphthalene
Concen: 0.583 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX037075.D
Acq: 18 Aug 2023 11:31



Tgt Ion:128 Resp: 4818
Ion Ratio Lower Upper
128 100
127 13.6 10.3 15.5
129 11.0 8.8 13.2





#96

1,2,3-Trichlorobenzene

Concen: 0.396 ug/l

RT: 13.957 min Scan# 21

Delta R.T. -0.006 min

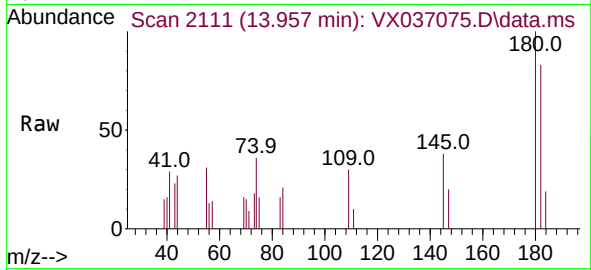
Lab File: VX037075.D

Acq: 18 Aug 2023 11:31

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:180 Resp: 743

Ion Ratio Lower Upper

180 100

182 94.3 46.9 140.6

145 33.6 17.8 53.5

