

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061923\
 Data File : VX036206.D
 Acq On : 19 Jun 2023 15:17
 Operator : JC/MD
 Sample : 03301-01 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1619

Quant Time: Jun 20 03:43:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X061623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 16 16:28:40 2023
 Response via : Initial Calibration

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

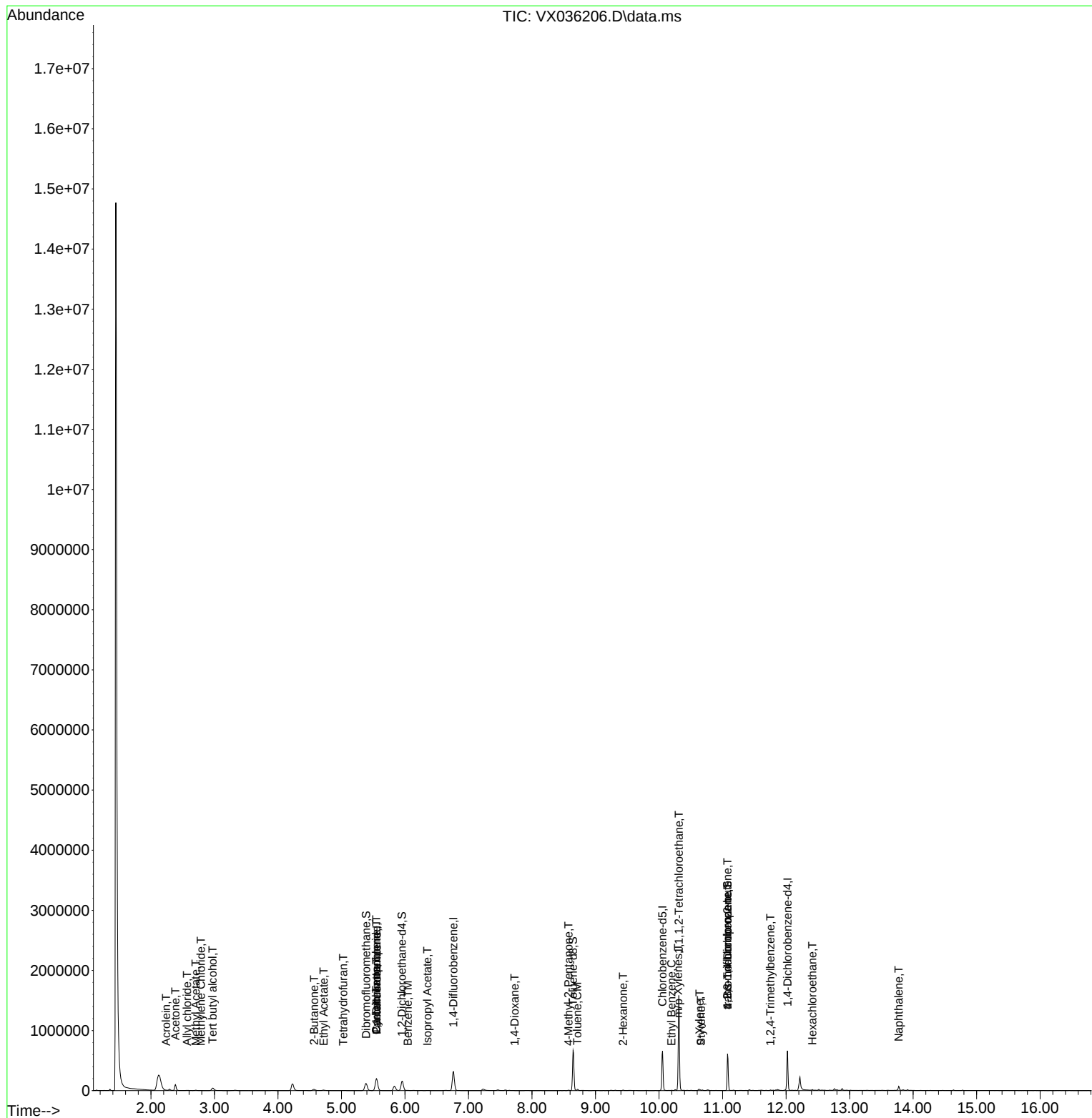
Internal Standards						
1) Pentafluorobenzene	5.556	168	166251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	303553	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	278534	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	129459	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	162906	53.620	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.240%			
35) Dibromofluoromethane	5.385	113	105681	51.340	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.680%			
50) Toluene-d8	8.646	98	377080	50.080	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.160%			
62) 4-Bromofluorobenzene	11.079	95	151416	49.818	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.640%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.971	59	59269	127.606	ug/l #	89
13) Acrolein	2.239	56	137	0.266	ug/l #	14
14) Allyl chloride	2.568	41	862	0.237	ug/l #	72
16) Acetone	2.385	43	112074	88.789	ug/l	99
18) Methyl Acetate	2.702	43	9030	1.886	ug/l	99
20) Methylene Chloride	2.788	84	483	0.211	ug/l #	75
25) 2-Butanone	4.568	43	30814	17.437	ug/l	100
29) Tetrahydrofuran	5.025	42	701	0.625	ug/l #	54
31) Cyclohexane	5.549	56	4631	1.421	ug/l #	1
36) 1,1-Dichloropropene	5.549	75	16101	5.310	ug/l #	51
37) Ethyl Acetate	4.720	43	15121	4.280	ug/l	98
38) Carbon Tetrachloride	5.549	117	19719	6.690	ug/l #	14
40) Benzene	6.043	78	4496	0.527	ug/l	99
43) Isopropyl Acetate	6.354	43	1171	0.217	ug/l #	62
49) 1,4-Dioxane	7.726	88	24	0.517	ug/l #	1
51) 4-Methyl-2-Pentanone	8.573	43	5007	1.467	ug/l	94
52) Toluene	8.714	92	6316	1.183	ug/l	97
59) 2-Hexanone	9.433	43	5129	2.021	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.311	131	1184	0.594	ug/l #	9
67) Ethyl Benzene	10.195	91	2712	0.263	ug/l	97
68) m/p-Xylenes	10.299	106	4254	1.094	ug/l	94
69) o-Xylene	10.640	106	2440	0.636	ug/l	95
70) Styrene	10.658	104	1683	0.263	ug/l #	75
76) 1,2,3-Trichloropropane	11.079	75	85571	27.851	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	85571	97.486	ug/l #	5
84) 1,2,4-Trimethylbenzene	11.756	105	3020	0.370	ug/l	75
90) Hexachloroethane	12.414	117	364	0.285	ug/l #	17
95) Naphthalene	13.774	128	38864	4.718	ug/l	99

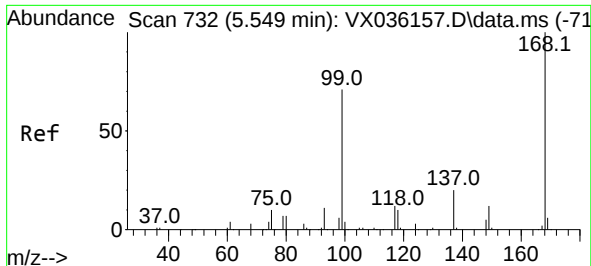
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061923\
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Quant Title : SW846 8260
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Response via : Initial Calibration

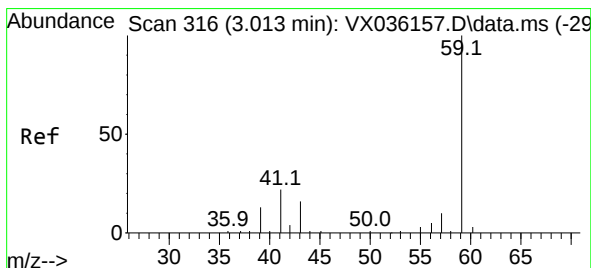
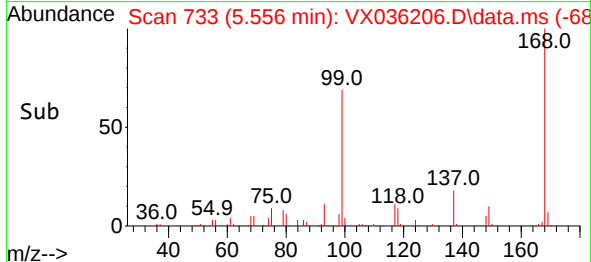
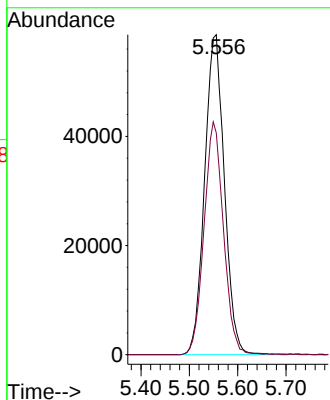
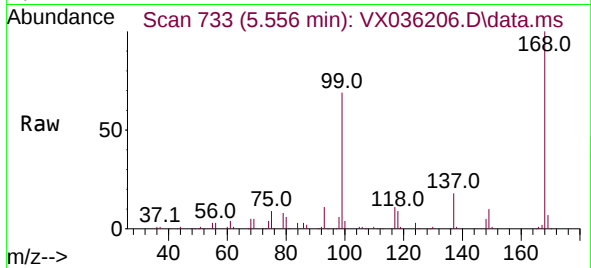




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.007 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

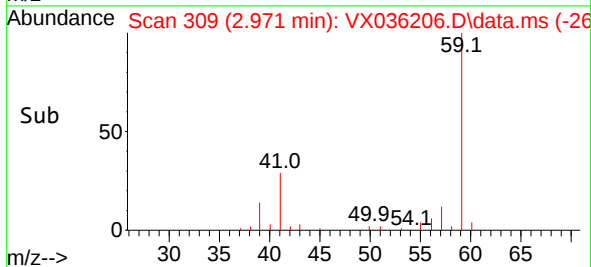
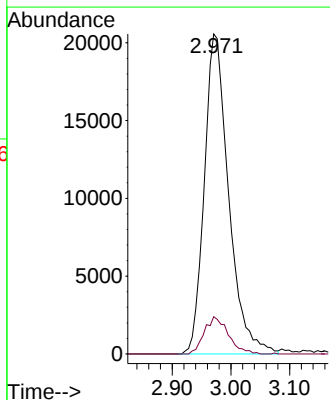
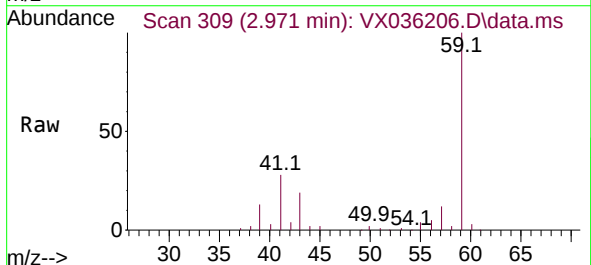
Instrument :
MSVOA_X
ClientSampleId :
1619

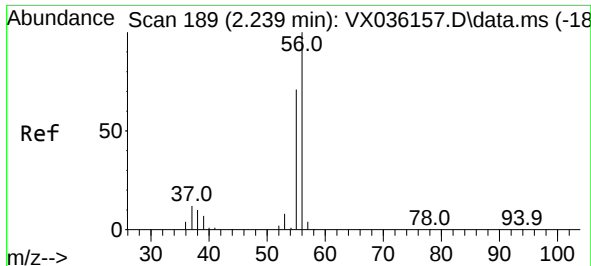
Tgt Ion:168 Resp: 166251
Ion Ratio Lower Upper
168 100
99 69.3 56.6 85.0



#11
Tert butyl alcohol
Concen: 127.606 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.042 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 59 Resp: 59269
Ion Ratio Lower Upper
59 100
57 11.5 6.0 9.0#

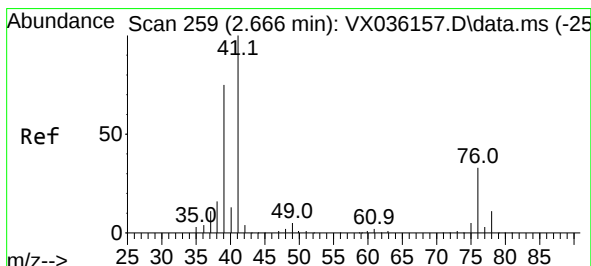
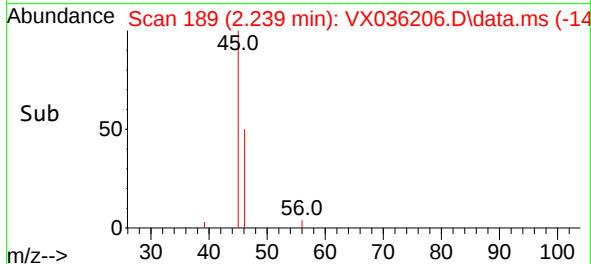
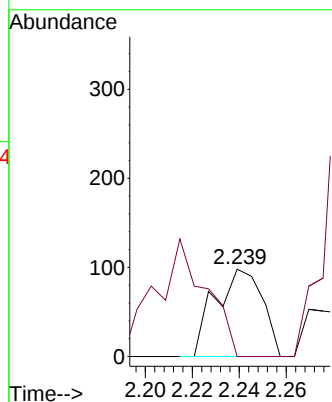
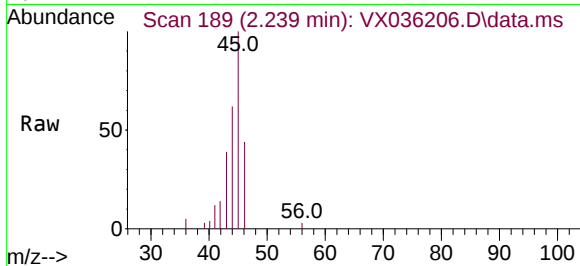




#13
Acrolein
Concen: 0.266 ug/l
RT: 2.239 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

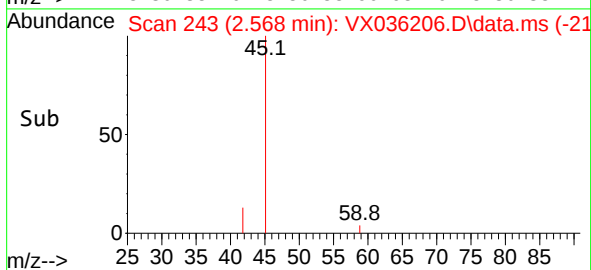
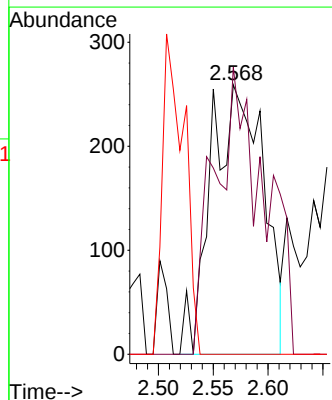
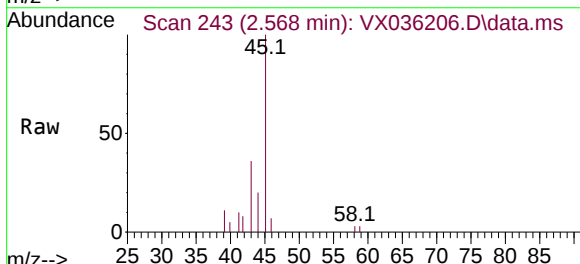
Instrument :
MSVOA_X
ClientSampleId :
1619

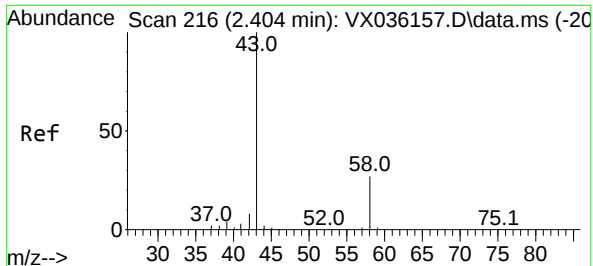
Tgt Ion: 56 Resp: 137
Ion Ratio Lower Upper
56 100
55 0.0 57.1 85.7#



#14
Allyl chloride
Concen: 0.237 ug/l
RT: 2.568 min Scan# 243
Delta R.T. -0.098 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 41 Resp: 862
Ion Ratio Lower Upper
41 100
39 82.6 55.8 83.6
76 0.0 24.3 36.5#

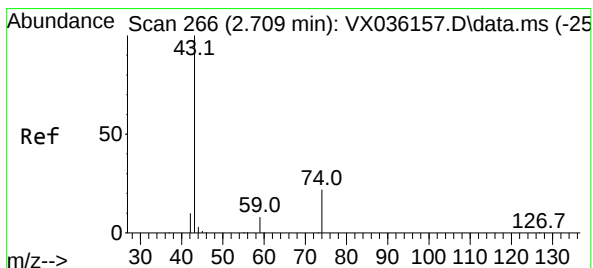
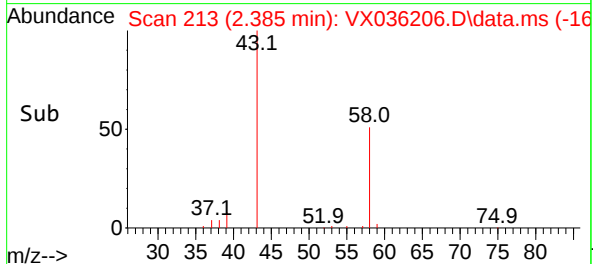
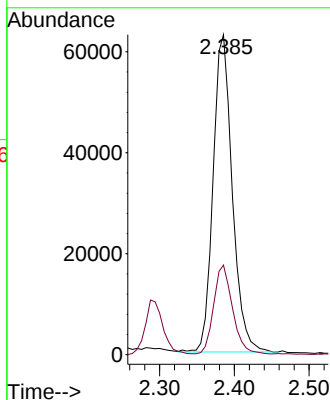
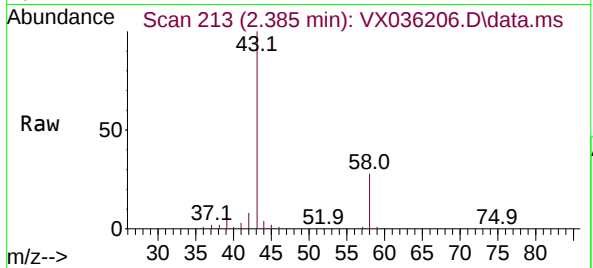




#16
Acetone
Concen: 88.789 ug/l
RT: 2.385 min Scan# 216
Delta R.T. -0.019 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

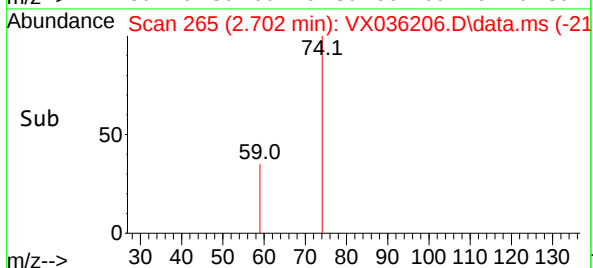
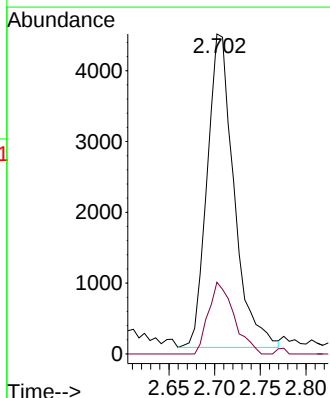
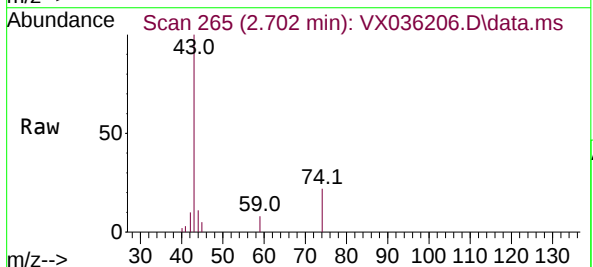
Instrument :
MSVOA_X
ClientSampleId :
1619

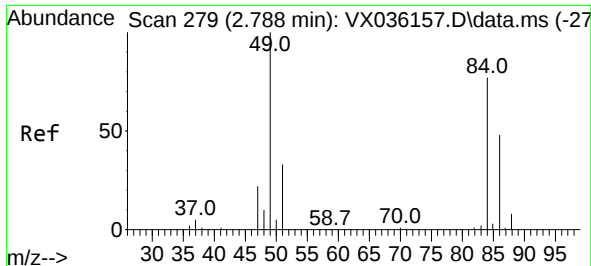
Tgt Ion: 43 Resp: 112074
Ion Ratio Lower Upper
43 100
58 27.9 21.9 32.9



#18
Methyl Acetate
Concen: 1.886 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.007 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 43 Resp: 9030
Ion Ratio Lower Upper
43 100
74 21.8 17.8 26.8





#20

Methylene Chloride

Concen: 0.211 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX036206.D

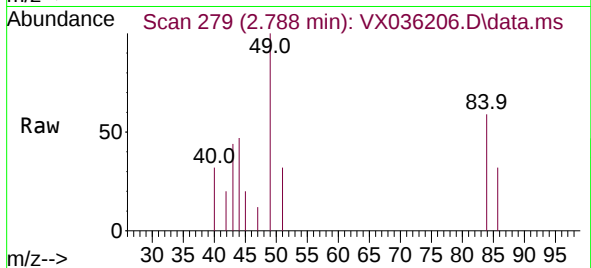
Acq: 19 Jun 2023 15:17

Instrument :

MSVOA_X

ClientSampleId :

1619



Tgt Ion: 84 Resp: 483

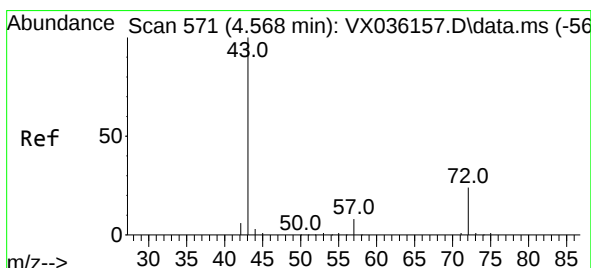
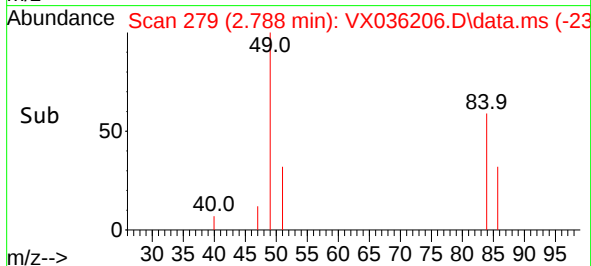
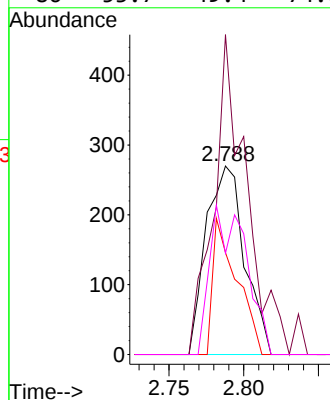
Ion Ratio Lower Upper

84 100

49 169.6 103.6 155.4#

51 54.1 33.8 50.6#

86 53.7 49.4 74.0



#25

2-Butanone

Concen: 17.437 ug/l

RT: 4.568 min Scan# 571

Delta R.T. -0.000 min

Lab File: VX036206.D

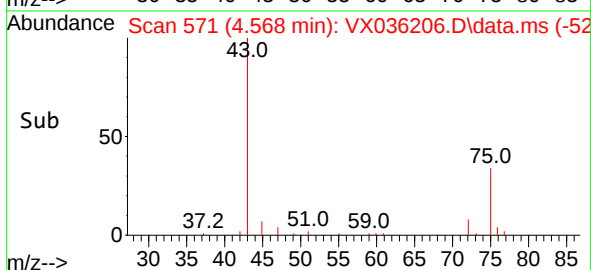
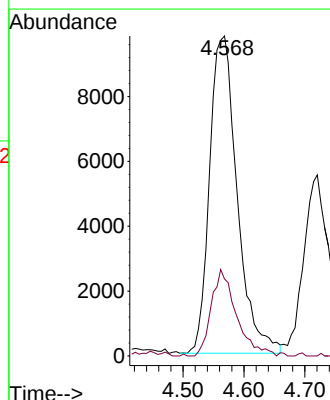
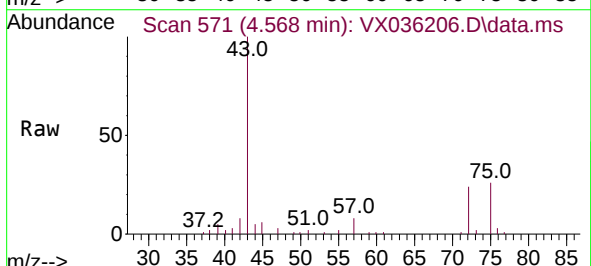
Acq: 19 Jun 2023 15:17

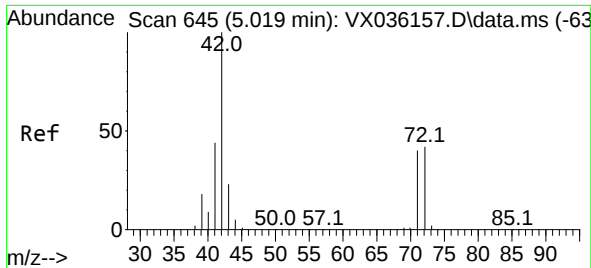
Tgt Ion: 43 Resp: 30814

Ion Ratio Lower Upper

43 100

72 24.3 19.4 29.2

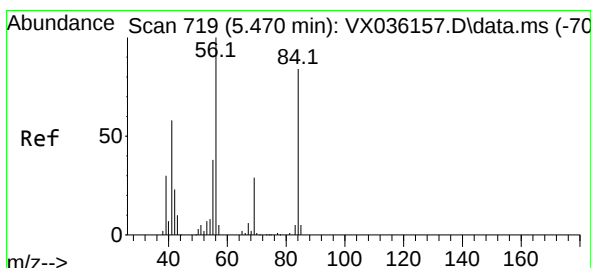
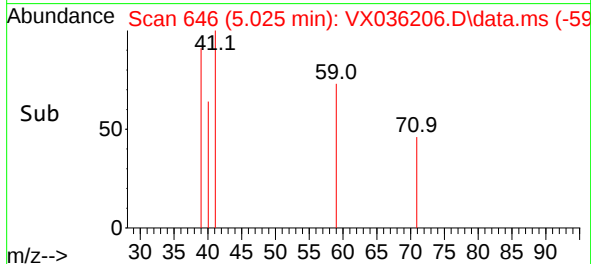
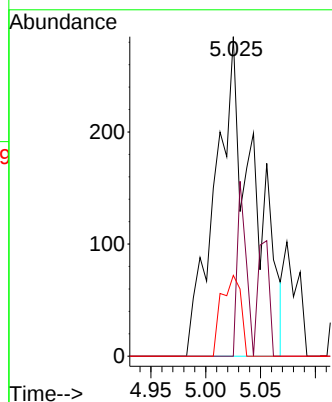
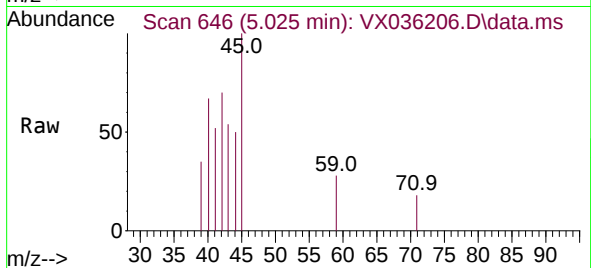




#29
Tetrahydrofuran
Concen: 0.625 ug/l
RT: 5.025 min Scan# 645
Delta R.T. 0.006 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

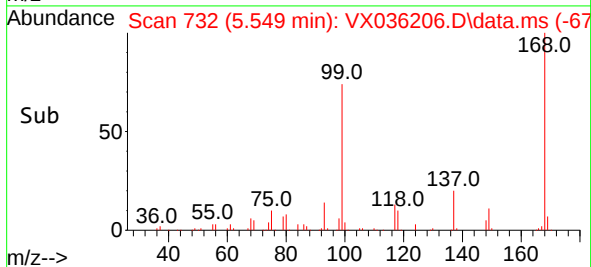
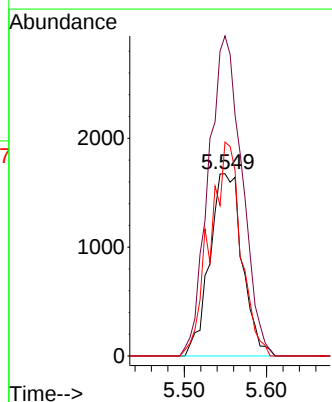
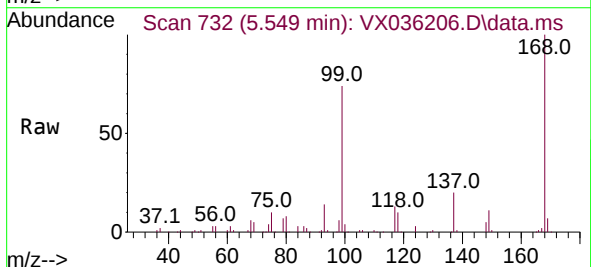
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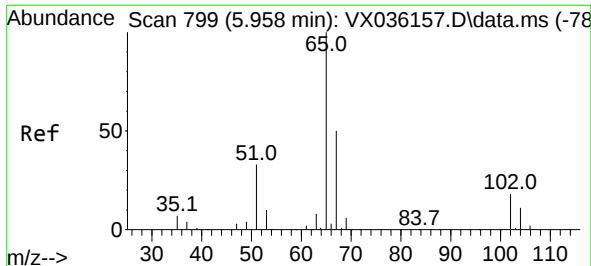
Tgt Ion: 42 Resp: 701
Ion Ratio Lower Upper
42 100
72 12.4 34.2 51.4#
71 12.7 32.2 48.2#



#31
Cyclohexane
Concen: 1.421 ug/l
RT: 5.549 min Scan# 732
Delta R.T. 0.079 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 56 Resp: 4631
Ion Ratio Lower Upper
56 100
69 175.6 23.4 35.2#
84 117.4 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 53.620 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

Instrument :

MSVOA_X

ClientSampleId :

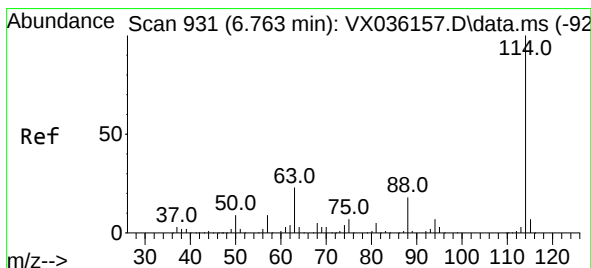
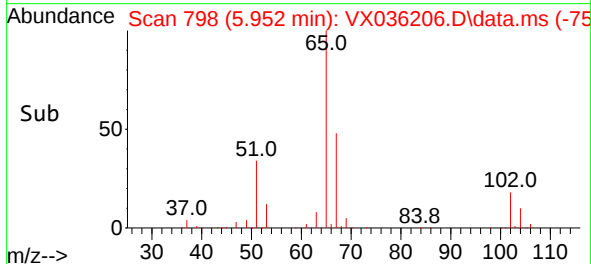
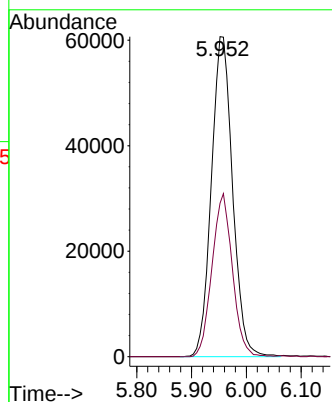
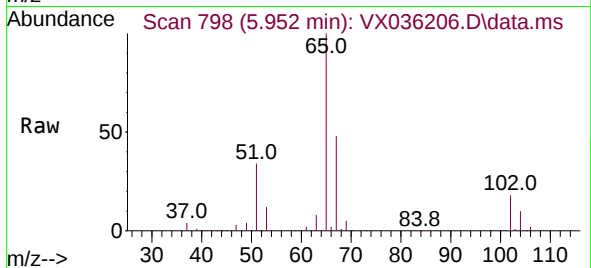
1619

Tgt Ion: 65 Resp: 162906

Ion Ratio Lower Upper

65 100

67 48.9 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: VX036206.D

Acq: 19 Jun 2023 15:17

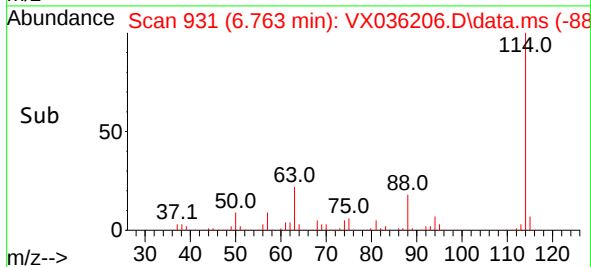
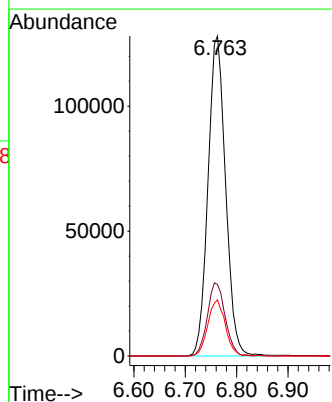
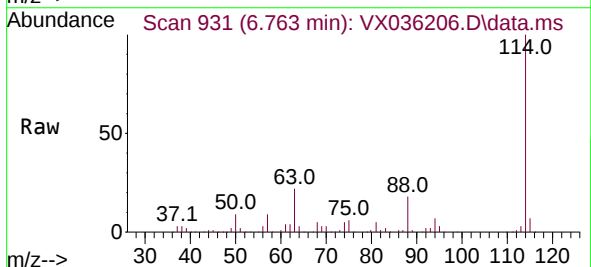
Tgt Ion: 114 Resp: 303553

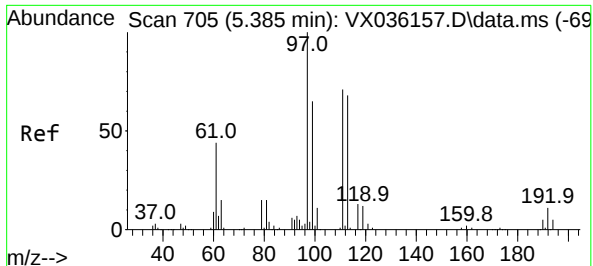
Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.0

88 17.6 0.0 36.6





#35

Dibromofluoromethane

Concen: 51.340 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

Instrument :

MSVOA_X

ClientSampleId :

1619

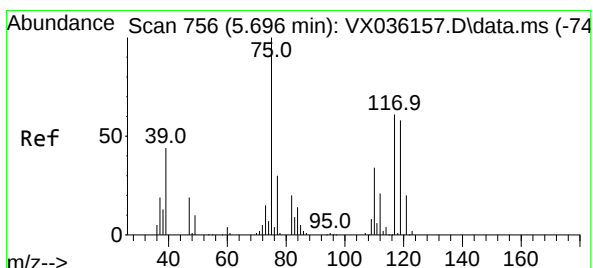
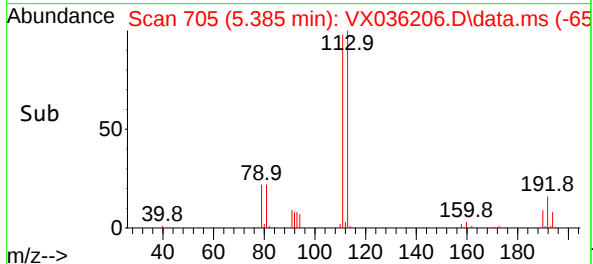
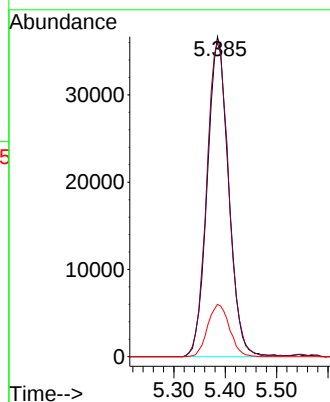
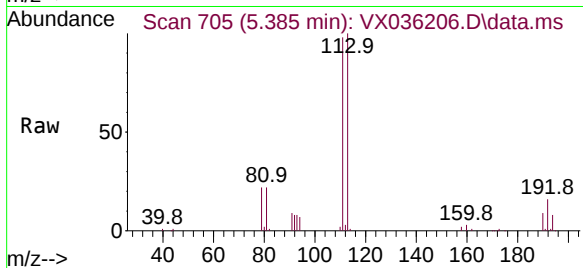
Tgt Ion:113 Resp: 105681

Ion Ratio Lower Upper

113 100

111 101.6 82.9 124.3

192 16.7 13.3 19.9



#36

1,1-Dichloropropene

Concen: 5.310 ug/l

RT: 5.549 min Scan# 732

Delta R.T. -0.147 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

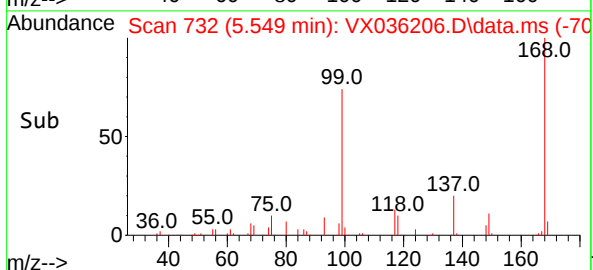
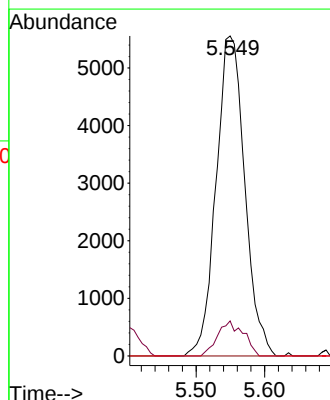
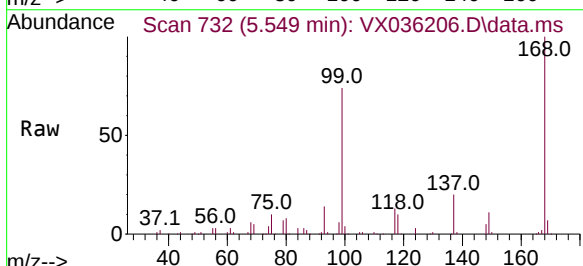
Tgt Ion: 75 Resp: 16101

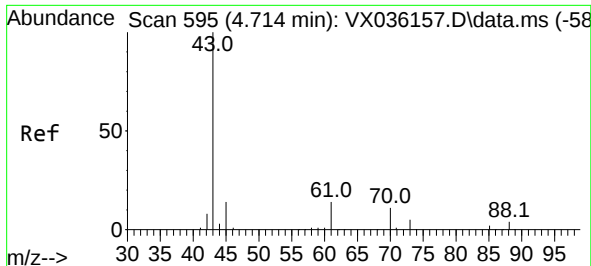
Ion Ratio Lower Upper

75 100

110 9.9 17.0 50.9#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 4.280 ug/l

RT: 4.720 min Scan# 595

Delta R.T. 0.006 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

Instrument :

MSVOA_X

ClientSampleId :

1619

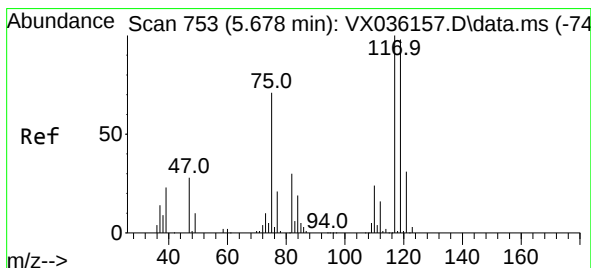
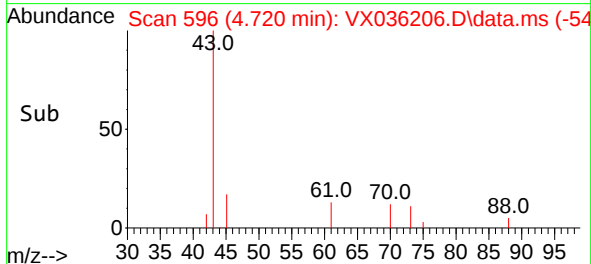
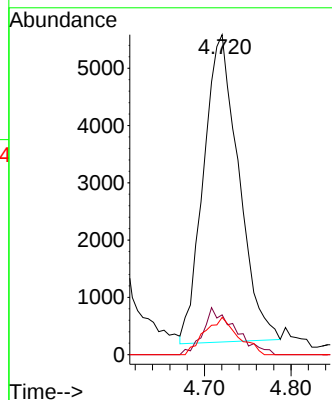
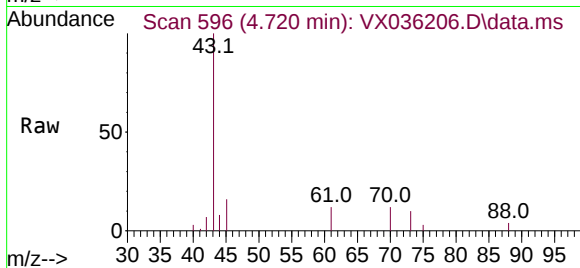
Tgt Ion: 43 Resp: 15121

Ion Ratio Lower Upper

43 100

61 14.0 10.6 16.0

70 11.4 8.3 12.5



#38

Carbon Tetrachloride

Concen: 6.690 ug/l

RT: 5.549 min Scan# 732

Delta R.T. -0.129 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

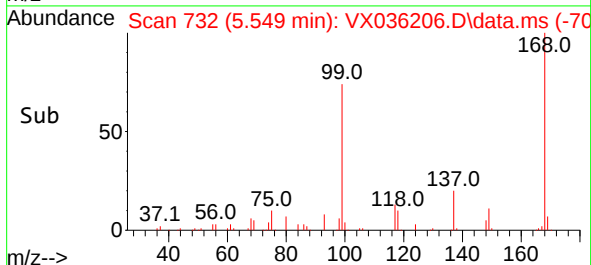
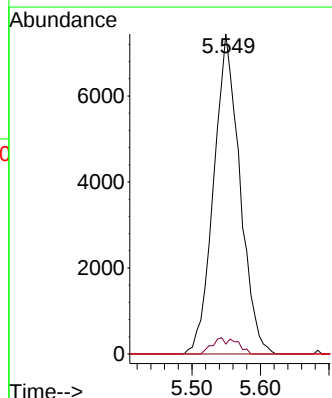
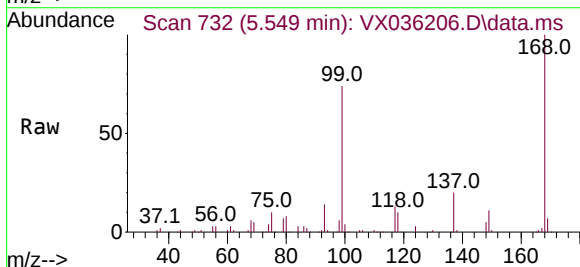
Tgt Ion: 117 Resp: 19719

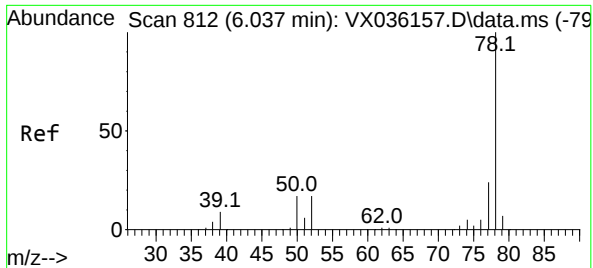
Ion Ratio Lower Upper

117 100

119 3.1 78.2 117.2#

121 0.0 24.4 36.6#

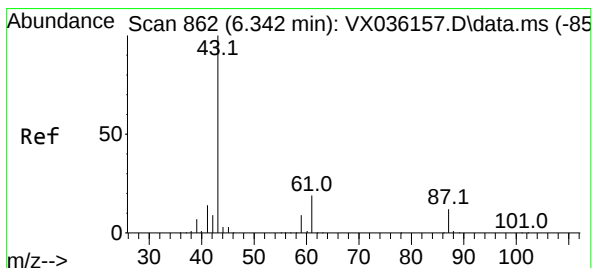
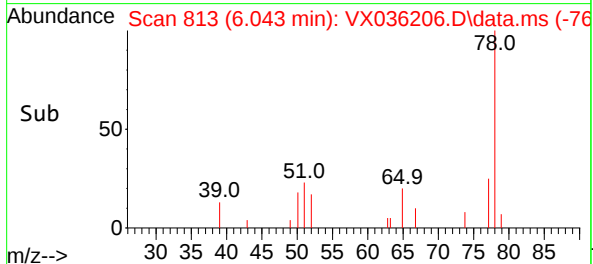
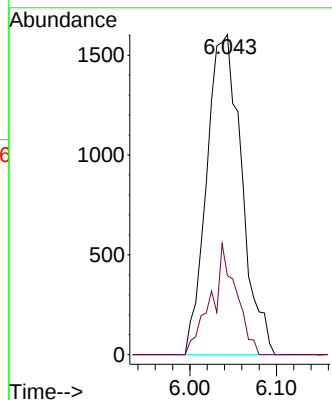
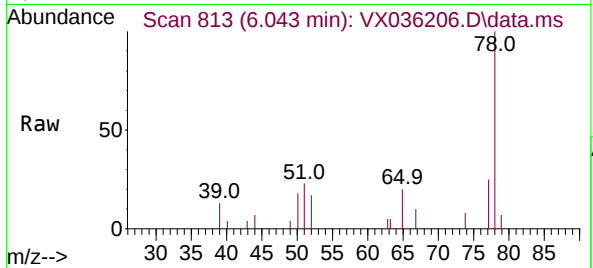




#40
Benzene
Concen: 0.527 ug/l
RT: 6.043 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

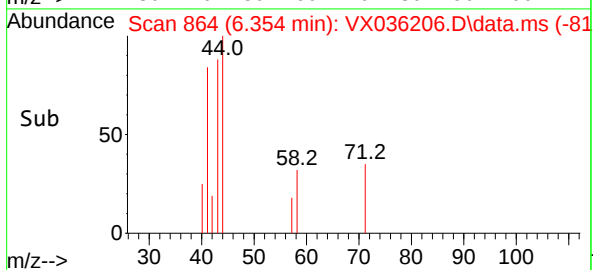
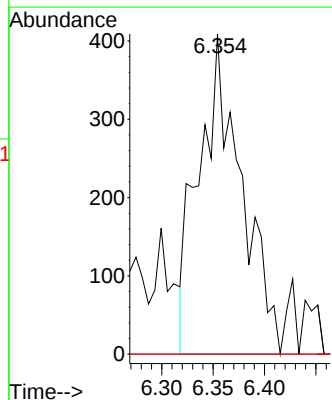
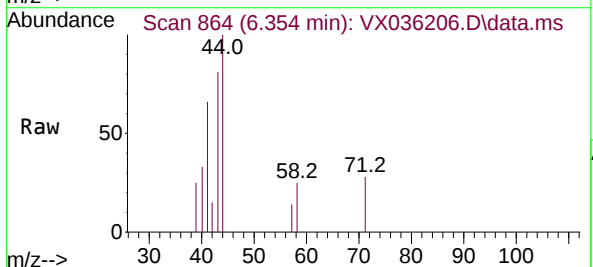
Instrument :
MSVOA_X
ClientSampleId :
1619

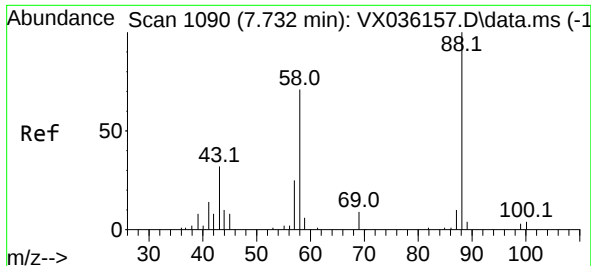
Tgt Ion: 78 Resp: 4496
Ion Ratio Lower Upper
78 100
77 24.7 19.3 28.9



#43
Isopropyl Acetate
Concen: 0.217 ug/l
RT: 6.354 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 43 Resp: 1171
Ion Ratio Lower Upper
43 100
61 0.0 15.2 22.8#
87 0.0 9.8 14.6#





#49

1,4-Dioxane

Concen: 0.517 ug/l

RT: 7.726 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

Instrument :

MSVOA_X

ClientSampleId :

1619

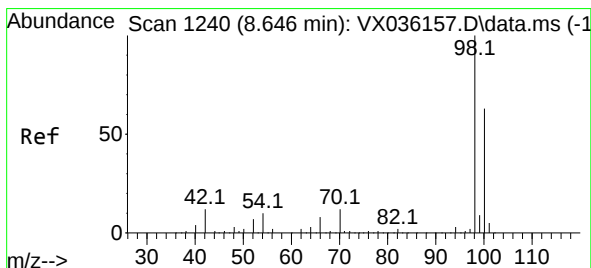
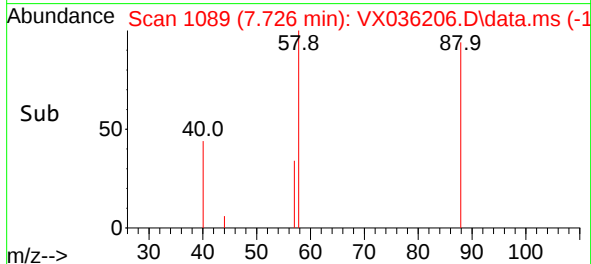
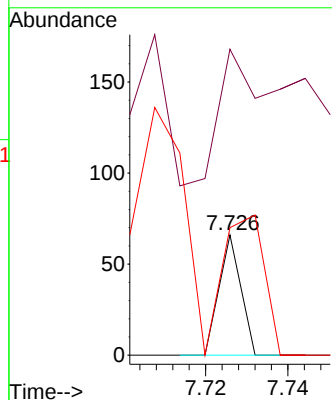
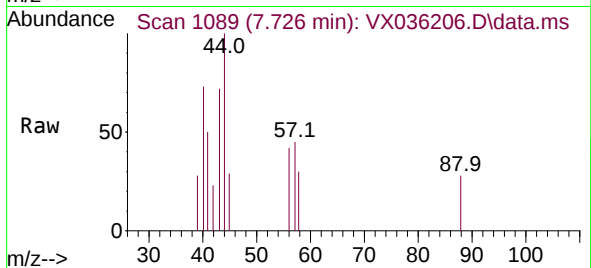
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 479.2 60.1 90.1#



#50

Toluene-d8

Concen: 50.080 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX036206.D

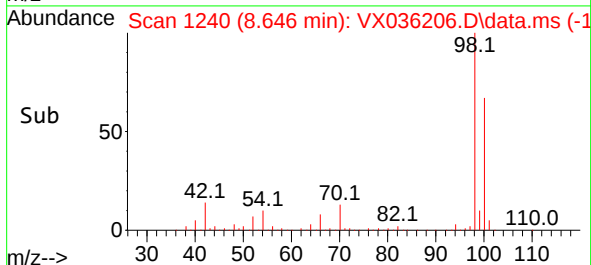
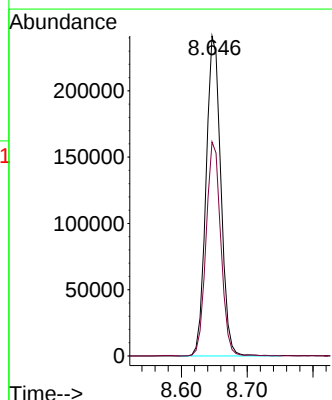
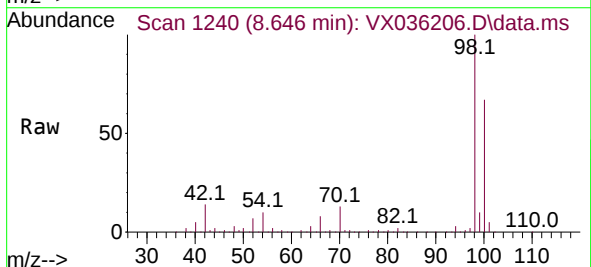
Acq: 19 Jun 2023 15:17

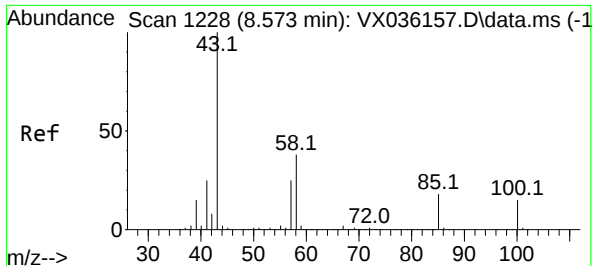
Tgt Ion: 98 Resp: 377080

Ion Ratio Lower Upper

98 100

100 66.7 53.1 79.7

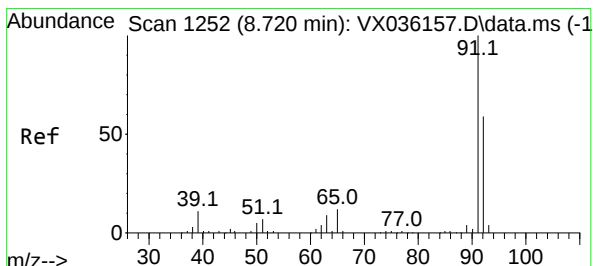
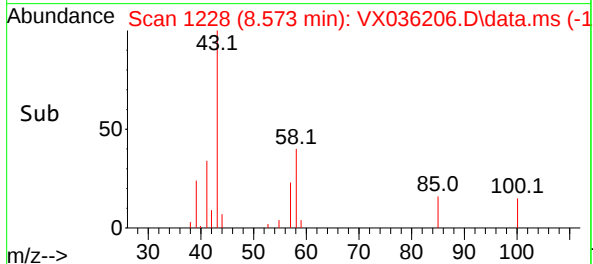
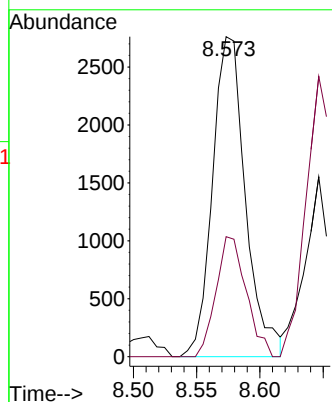
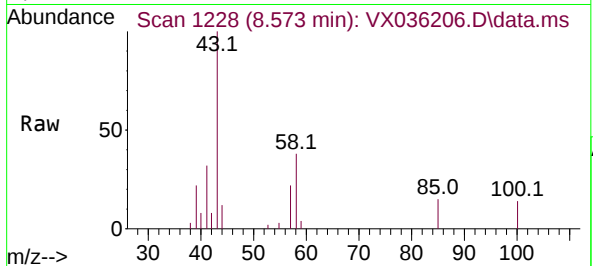




#51
4-Methyl-2-Pentanone
Concen: 1.467 ug/l
RT: 8.573 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

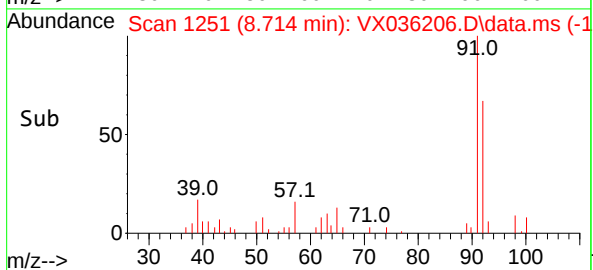
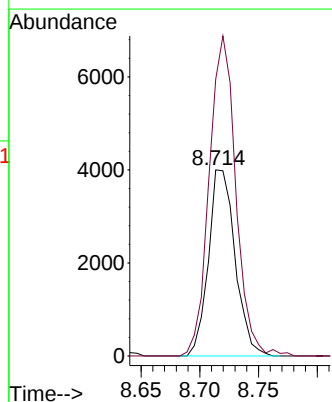
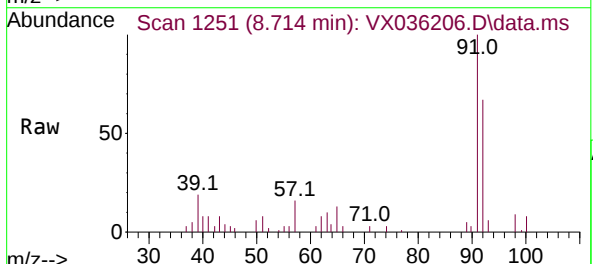
Instrument :
MSVOA_X
ClientSampleId :
1619

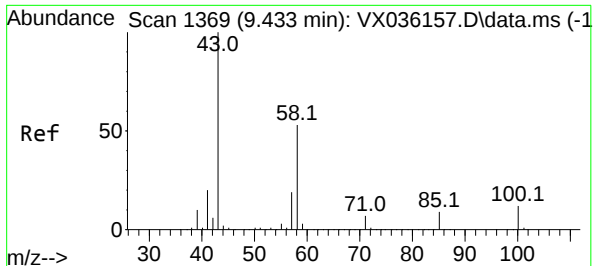
Tgt Ion: 43 Resp: 5007
Ion Ratio Lower Upper
43 100
58 34.3 30.4 45.6



#52
Toluene
Concen: 1.183 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 92 Resp: 6316
Ion Ratio Lower Upper
92 100
91 171.8 134.2 201.2





#59

2-Hexanone

Concen: 2.021 ug/l

RT: 9.433 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

Instrument :

MSVOA_X

ClientSampleId :

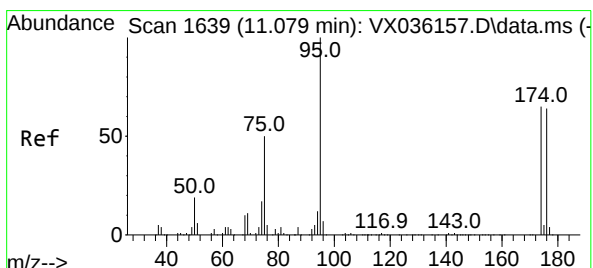
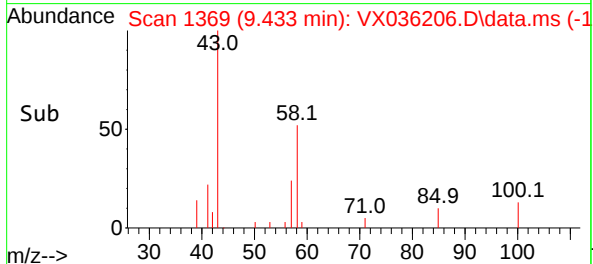
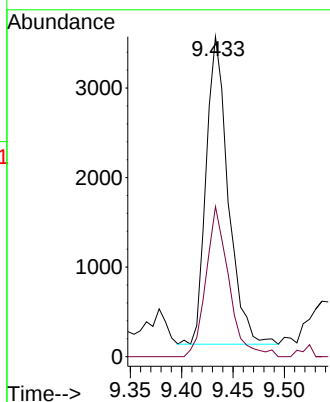
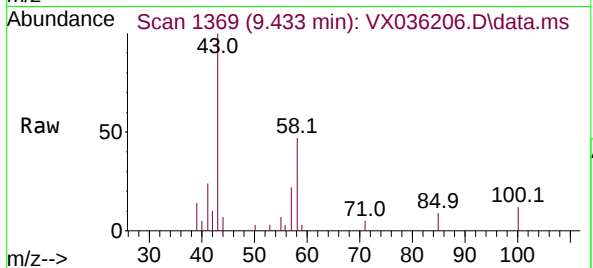
1619

Tgt Ion: 43 Resp: 5129

Ion Ratio Lower Upper

43 100

58 50.6 26.2 78.5



#62

4-Bromofluorobenzene

Concen: 49.818 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

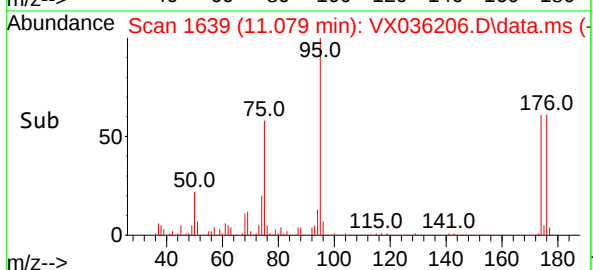
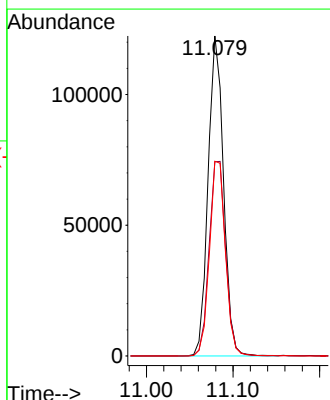
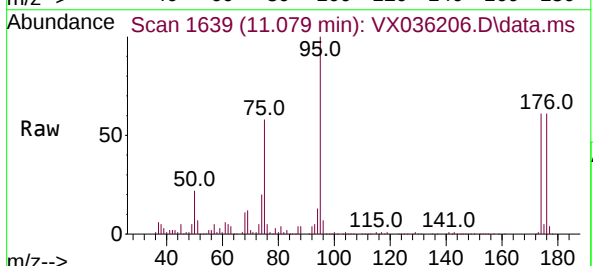
Tgt Ion: 95 Resp: 151416

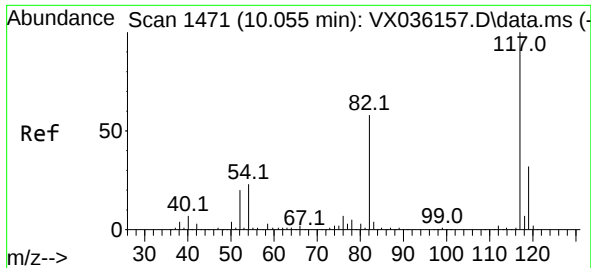
Ion Ratio Lower Upper

95 100

174 65.3 0.0 135.6

176 62.9 0.0 131.0

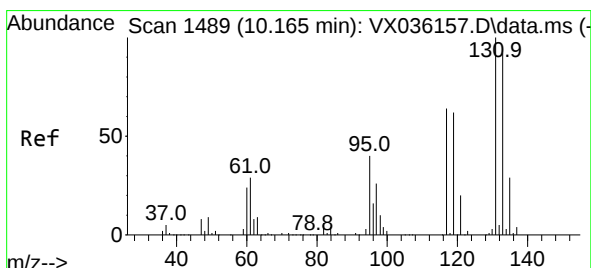
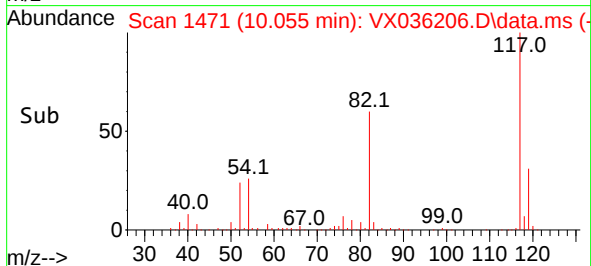
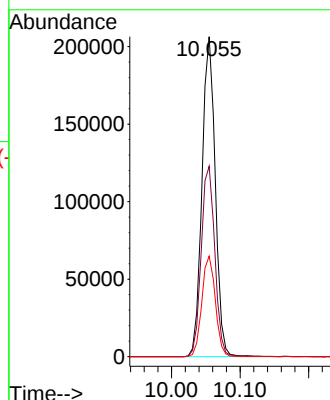
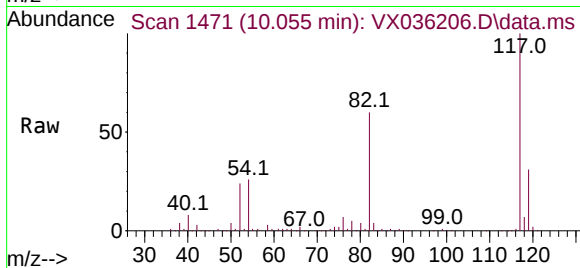




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

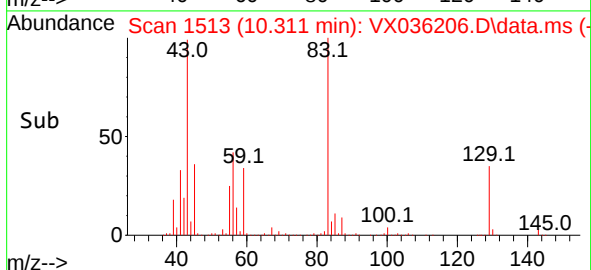
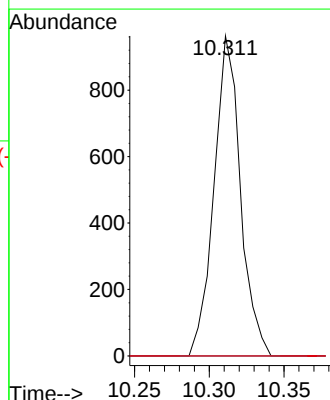
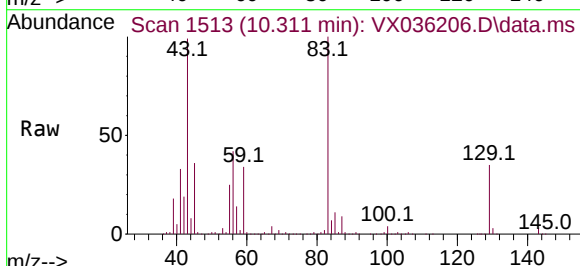
Instrument :
MSVOA_X
ClientSampleId :
1619

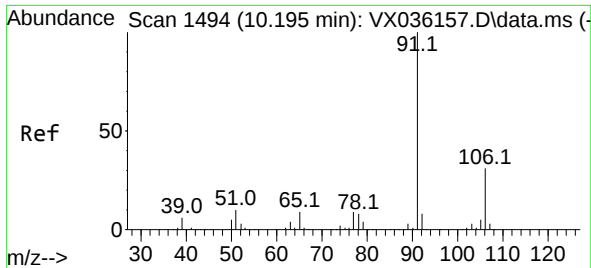
Tgt Ion:117 Resp: 278534
Ion Ratio Lower Upper
117 100
82 59.5 46.2 69.4
119 31.4 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 0.594 ug/l
RT: 10.311 min Scan# 1513
Delta R.T. 0.146 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion:131 Resp: 1184
Ion Ratio Lower Upper
131 100
133 0.0 47.1 141.4#
119 0.0 32.2 96.6#

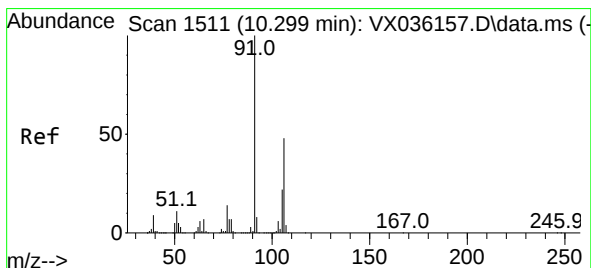
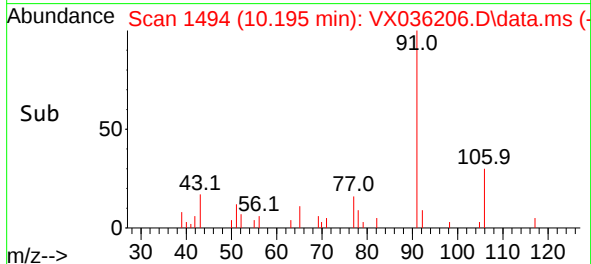
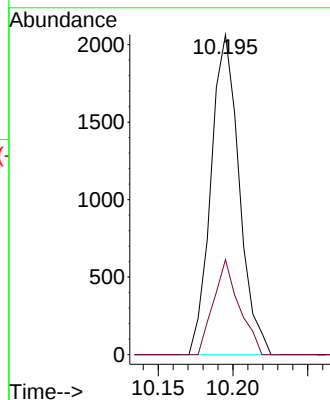
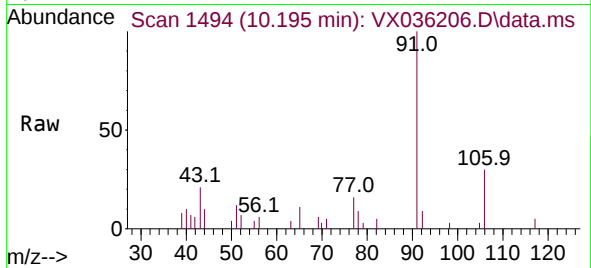




#67
Ethyl Benzene
Concen: 0.263 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

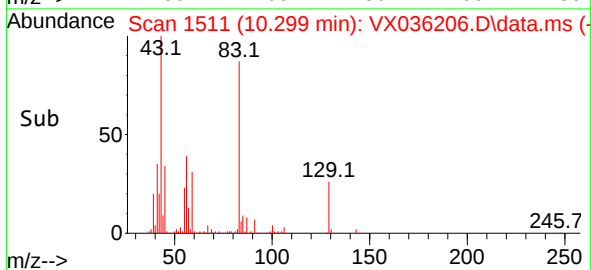
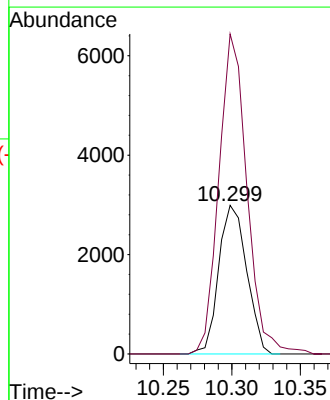
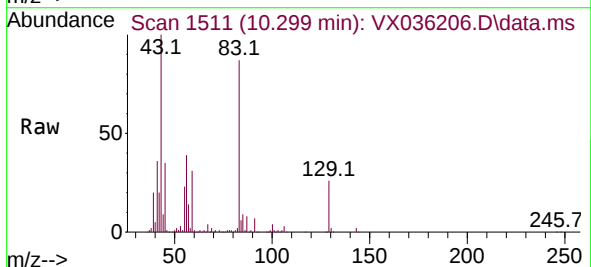
Instrument :
MSVOA_X
ClientSampleId :
1619

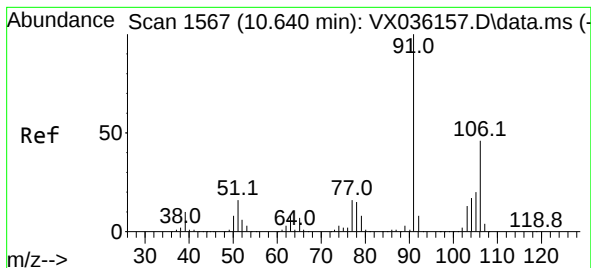
Tgt Ion: 91 Resp: 2712
Ion Ratio Lower Upper
91 100
106 29.7 24.9 37.3



#68
m/p-Xylenes
Concen: 1.094 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 106 Resp: 4254
Ion Ratio Lower Upper
106 100
91 216.0 165.5 248.3





#69

o-Xylene

Concen: 0.636 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

Instrument :

MSVOA_X

ClientSampleId :

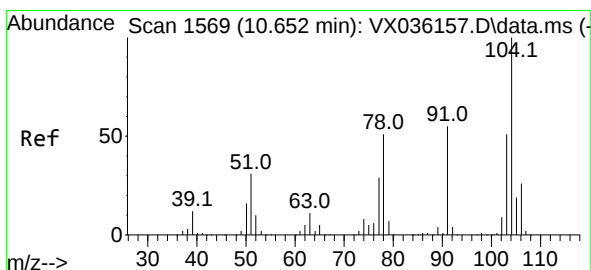
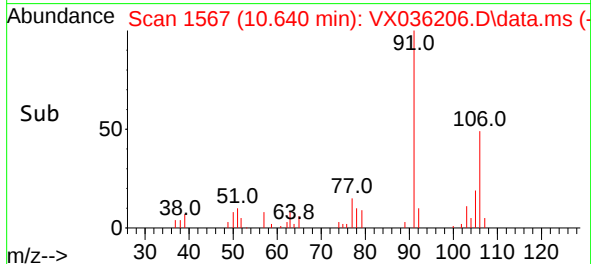
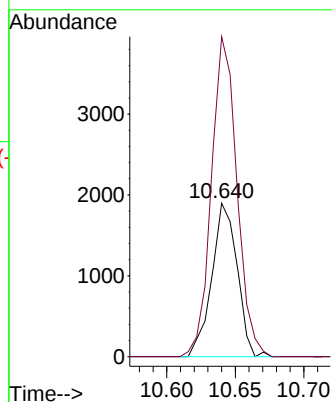
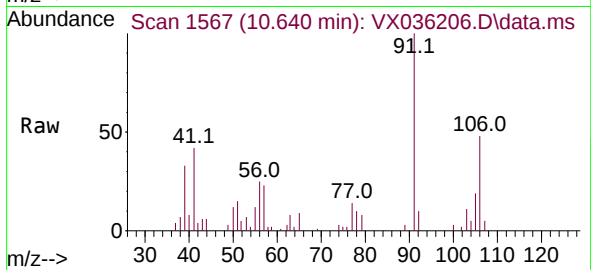
1619

Tgt Ion:106 Resp: 2440

Ion Ratio Lower Upper

106 100

91 209.9 108.9 326.8



#70

Styrene

Concen: 0.263 ug/l

RT: 10.658 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VX036206.D

Acq: 19 Jun 2023 15:17

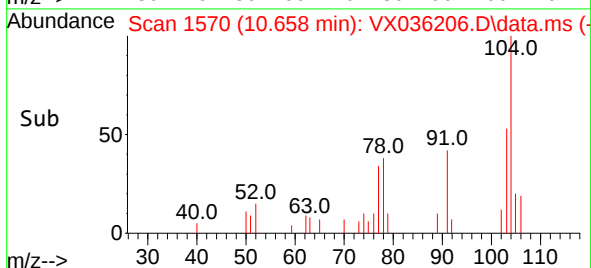
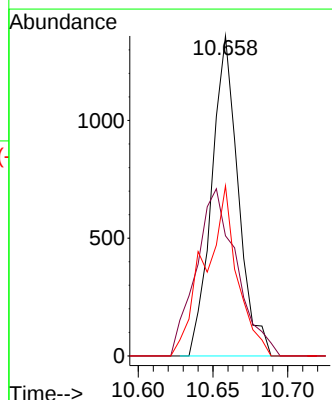
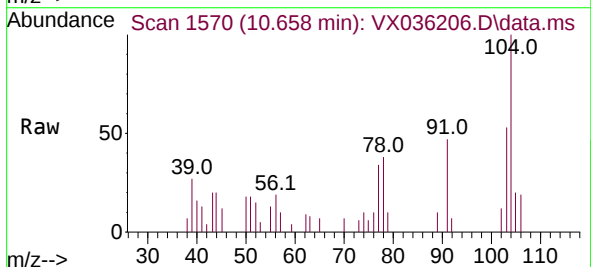
Tgt Ion:104 Resp: 1683

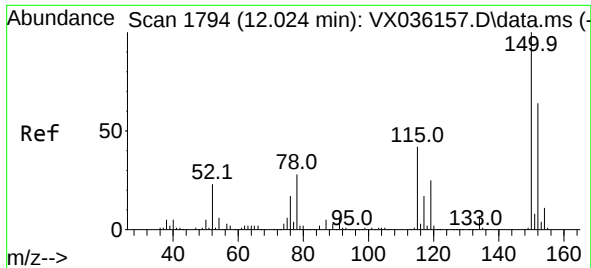
Ion Ratio Lower Upper

104 100

78 79.3 43.6 65.4#

103 65.1 43.6 65.4

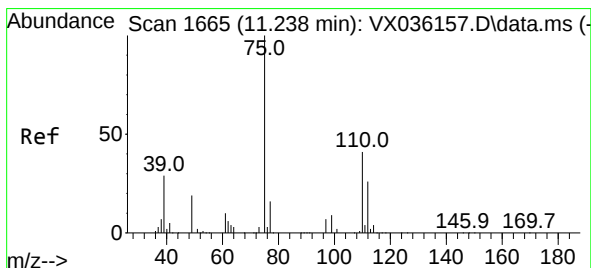
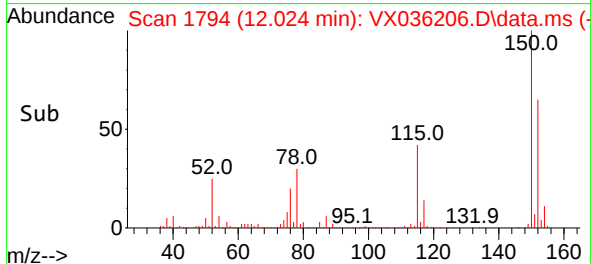
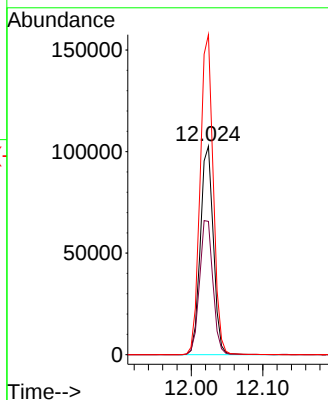
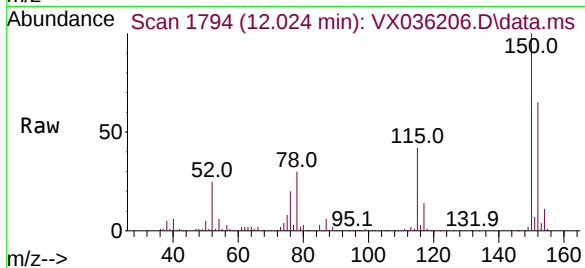




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX036206.D
 Acq: 19 Jun 2023 15:17

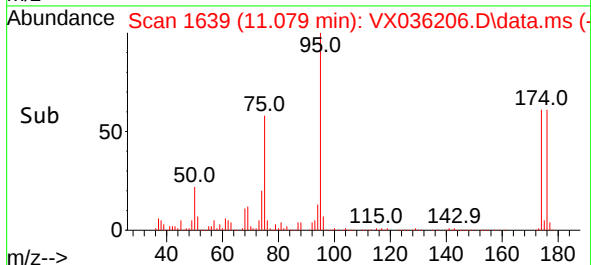
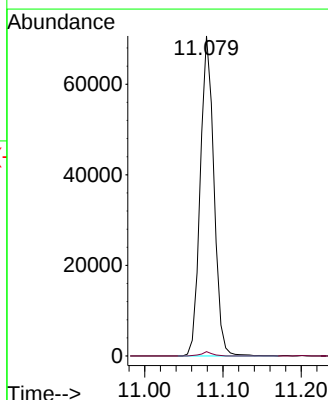
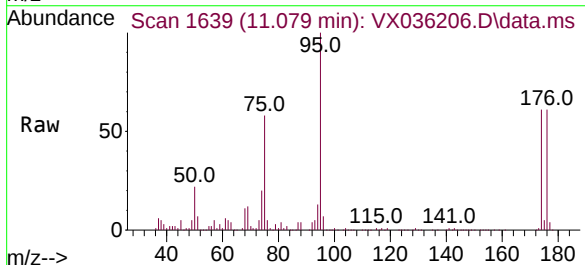
Instrument :
 MSVOA_X
 ClientSampleId :
 1619

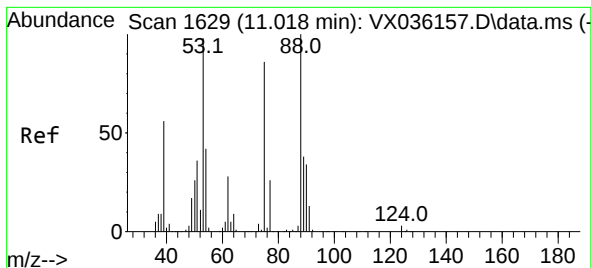
Tgt Ion:152 Resp: 129459
 Ion Ratio Lower Upper
 152 100
 115 66.3 43.3 129.9
 150 155.0 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 27.851 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX036206.D
 Acq: 19 Jun 2023 15:17

Tgt Ion: 75 Resp: 85571
 Ion Ratio Lower Upper
 75 100
 77 1.1 19.1 57.5#

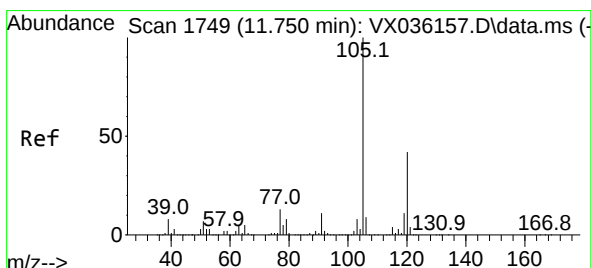
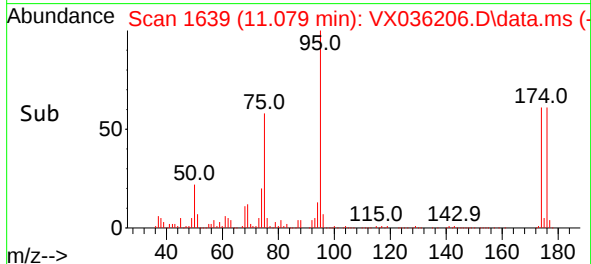
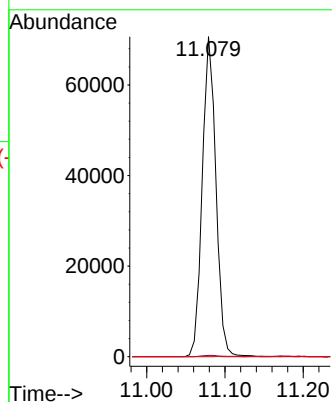
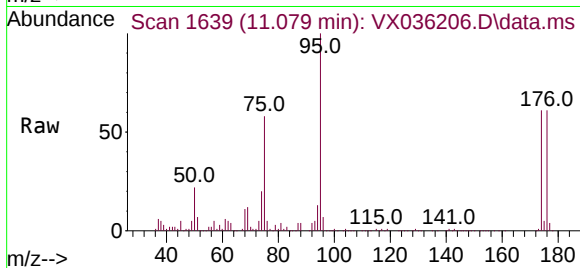




#81
trans-1,4-Dichloro-2-butene
Concen: 97.486 ug/l
RT: 11.079 min Scan# 1619
Delta R.T. 0.061 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

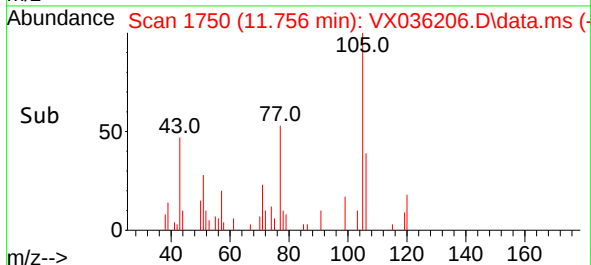
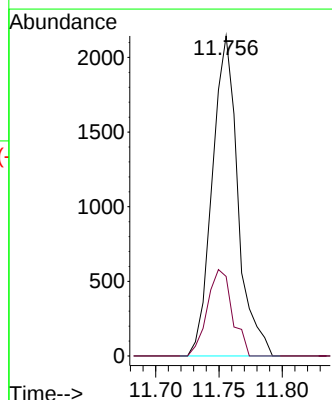
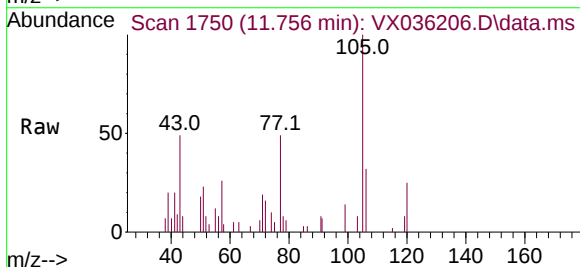
Instrument :
MSVOA_X
ClientSampleId :
1619

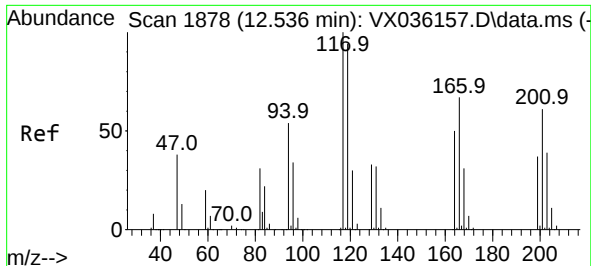
Tgt Ion: 75 Resp: 85571
Ion Ratio Lower Upper
75 100
53 0.6 90.5 135.7#
89 0.0 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.370 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion: 105 Resp: 3020
Ion Ratio Lower Upper
105 100
120 26.4 21.2 63.6

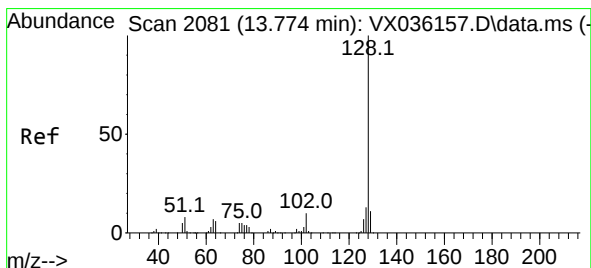
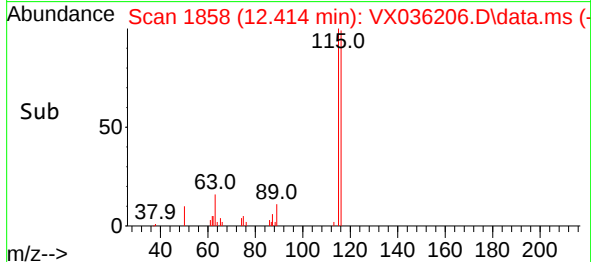
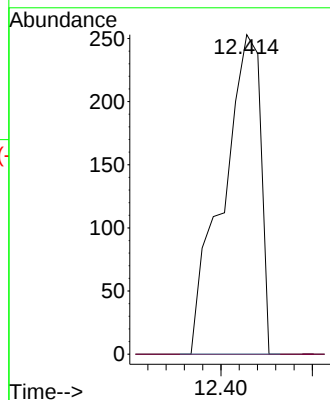
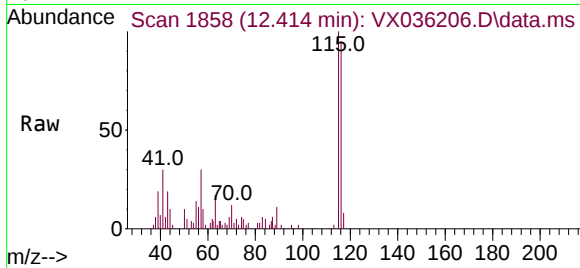




#90
Hexachloroethane
Concen: 0.285 ug/l
RT: 12.414 min Scan# 1858
Delta R.T. -0.122 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Instrument :
MSVOA_X
ClientSampleId :
1619

Tgt Ion:117 Resp: 364
Ion Ratio Lower Upper
117 100
201 0.0 32.9 98.6#



#95
Naphthalene
Concen: 4.718 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX036206.D
Acq: 19 Jun 2023 15:17

Tgt Ion:128 Resp: 38864
Ion Ratio Lower Upper
128 100
127 12.4 10.3 15.5
129 10.9 8.8 13.2

