

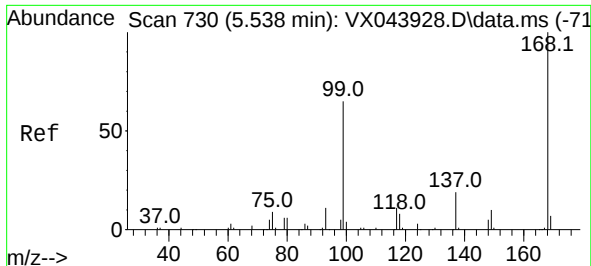
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112524\
 Data File : VX043999.D
 Acq On : 25 Nov 2024 20:03
 Operator : JC/MD
 Sample : P4938-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-732

Quant Time: Nov 27 07:48:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 22 03:45:52 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	117541	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	6.757	114	225495	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	193570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	87608	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	100223	49.713	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.420%
35) Dibromofluoromethane	5.379	113	71907	44.627	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.260%
50) Toluene-d8	8.647	98	269999	48.611	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.220%
62) 4-Bromofluorobenzene	11.079	95	92663	49.021	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.040%
Target Compounds						
					Qvalue	
5) Bromomethane	1.611	94	298	0.291	ug/l #	72
11) Tert butyl alcohol	3.014	59	511	1.579	ug/l	97
16) Acetone	2.392	43	42513	45.913	ug/l	97
17) Carbon Disulfide	2.495	76	669	0.239	ug/l #	76
18) Methyl Acetate	2.709	43	3560	1.651	ug/l #	87
20) Methylene Chloride	2.788	84	2244	1.428	ug/l #	93
25) 2-Butanone	4.593	43	3598	3.011	ug/l #	89
29) Tetrahydrofuran	5.044	42	639	0.872	ug/l #	64
31) Cyclohexane	5.544	56	3202	1.425	ug/l #	43
36) 1,1-Dichloropropene	5.544	75	11259	5.607	ug/l #	50
37) Ethyl Acetate	4.751	43	3011	1.208	ug/l #	80
38) Carbon Tetrachloride	5.550	117	13585	6.021	ug/l #	17
43) Isopropyl Acetate	6.342	43	115619	29.149	ug/l	99
44) Trichloroethene	7.129	130	951	0.537	ug/l	91
48) Methyl methacrylate	7.799	41	100204	52.648	ug/l #	45
49) 1,4-Dioxane	7.793	88	250	7.374	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	84033	34.716	ug/l #	51
54) cis-1,3-Dichloropropene	8.549	75	35265	14.515	ug/l #	64
57) 1,3-Dichloropropane	9.482	76	4830	1.856	ug/l #	42
59) 2-Hexanone	9.378	43	96310	52.936	ug/l #	26
68) m/p-Xylenes	10.305	106	547	0.204	ug/l	97
74) N-amyl acetate	10.823	43	1004	0.322	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	52186	27.163	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	52186	74.121	ug/l #	6
88) 1,4-Dichlorobenzene	12.042	146	612	0.205	ug/l #	26
95) Naphthalene	13.786	128	1304	0.208	ug/l #	81

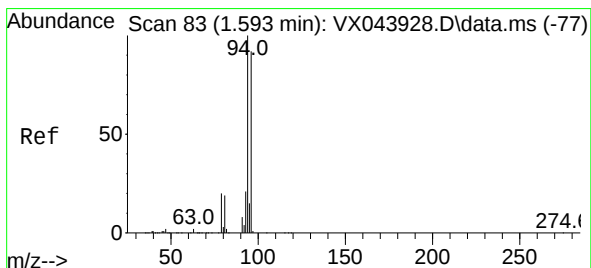
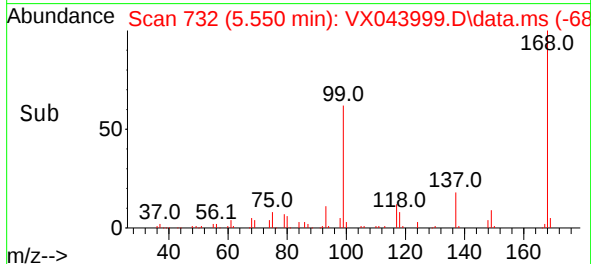
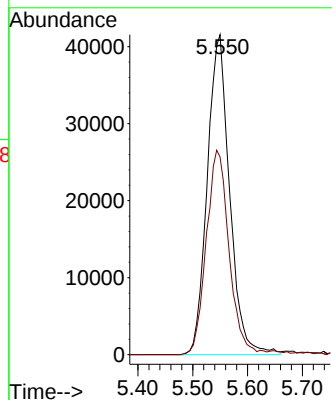
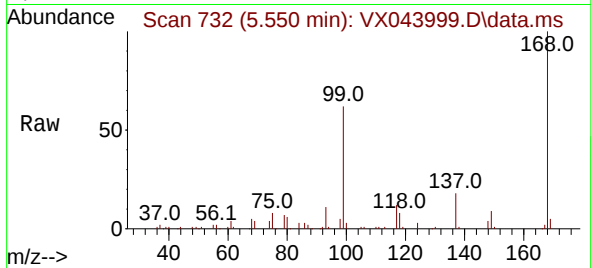
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.012 min
Lab File: VX043999.D
Acq: 25 Nov 2024 20:03

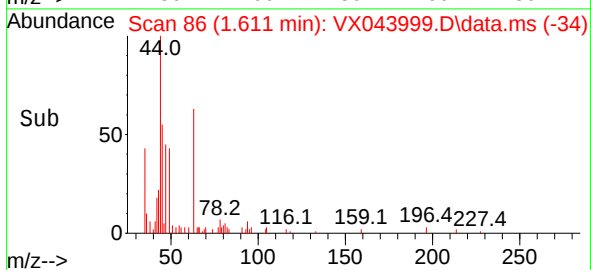
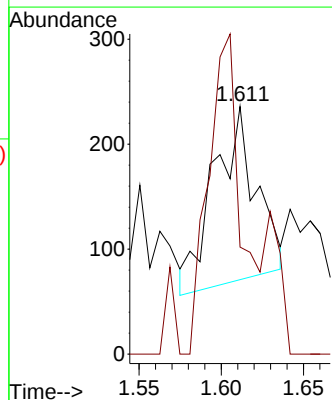
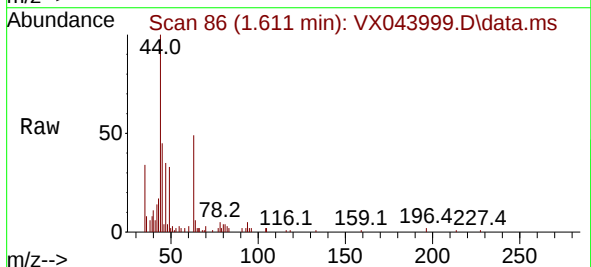
Instrument :
MSVOA_X
ClientSampleId :
MH-732

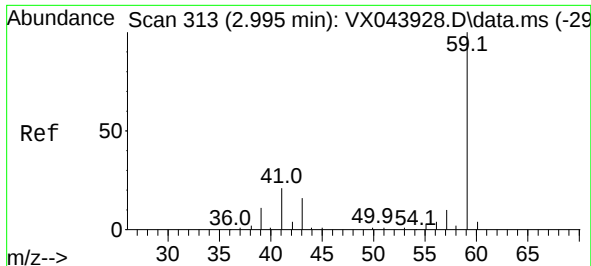
Tgt Ion:168 Resp: 117541
Ion Ratio Lower Upper
168 100
99 61.8 51.8 77.8



#5
Bromomethane
Concen: 0.291 ug/l
RT: 1.611 min Scan# 86
Delta R.T. 0.018 min
Lab File: VX043999.D
Acq: 25 Nov 2024 20:03

Tgt Ion: 94 Resp: 298
Ion Ratio Lower Upper
94 100
96 65.8 73.9 110.9#





#11

Tert butyl alcohol

Concen: 1.579 ug/l

RT: 3.014 min Scan# 313

Delta R.T. 0.018 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

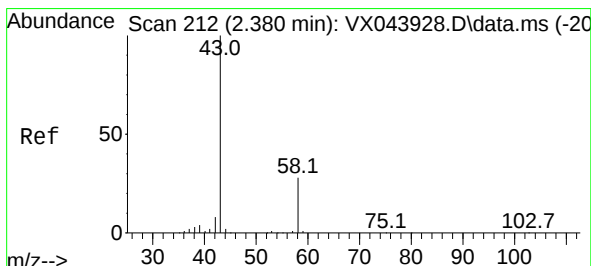
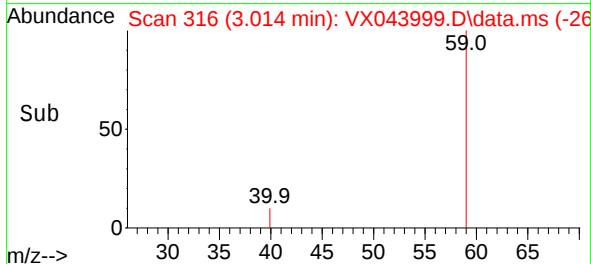
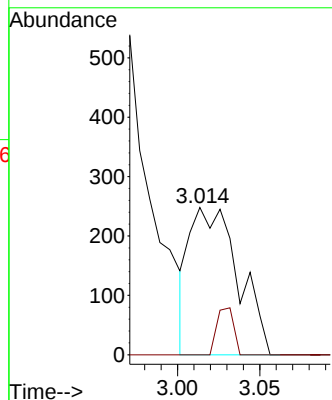
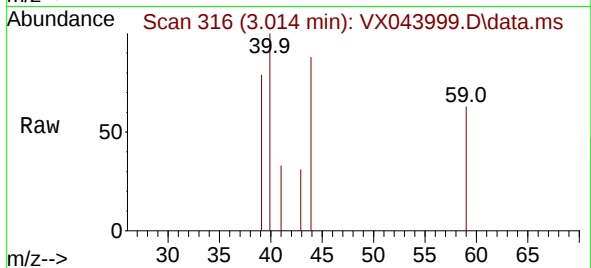
MH-732

Tgt Ion: 59 Resp: 511

Ion Ratio Lower Upper

59 100

57 11.0 7.9 11.9



#16

Acetone

Concen: 45.913 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.012 min

Lab File: VX043999.D

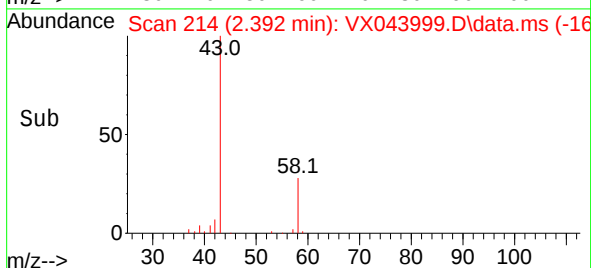
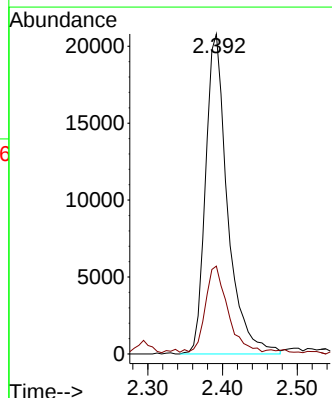
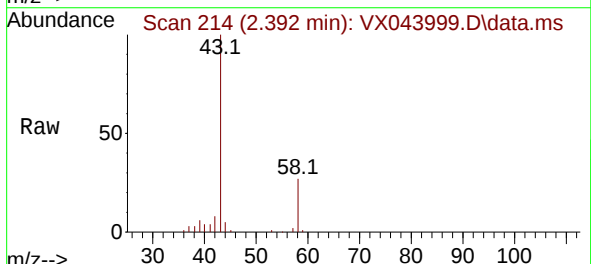
Acq: 25 Nov 2024 20:03

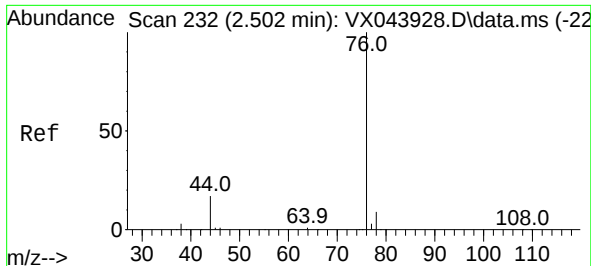
Tgt Ion: 43 Resp: 42513

Ion Ratio Lower Upper

43 100

58 26.9 22.7 34.1





#17

Carbon Disulfide

Concen: 0.239 ug/l

RT: 2.495 min Scan# 24

Delta R.T. -0.006 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

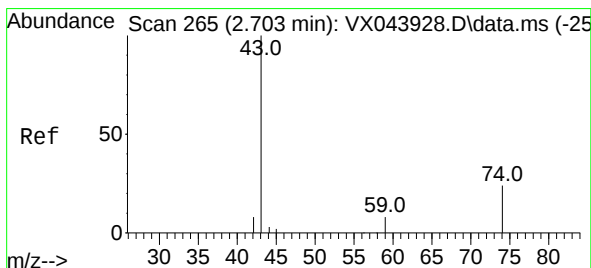
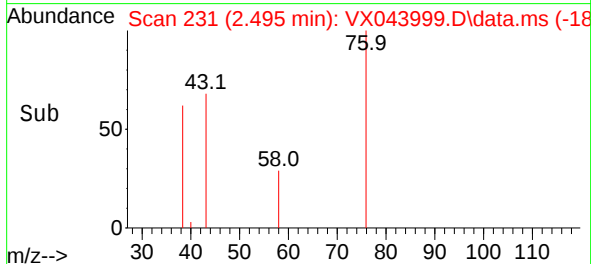
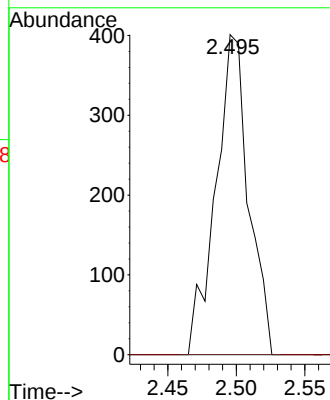
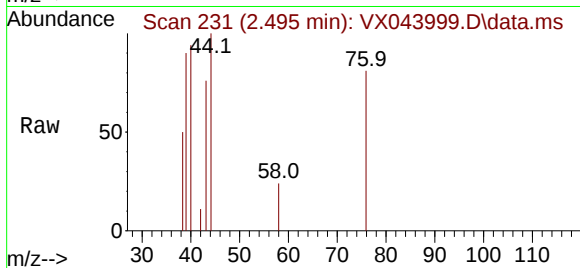
MH-732

Tgt Ion: 76 Resp: 669

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 1.651 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX043999.D

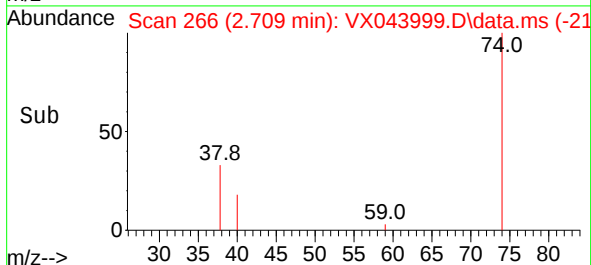
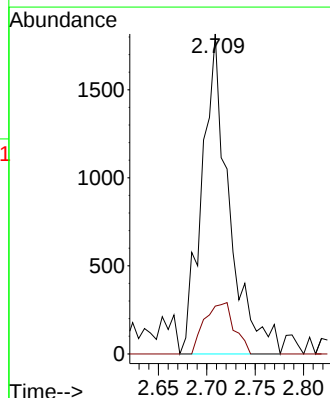
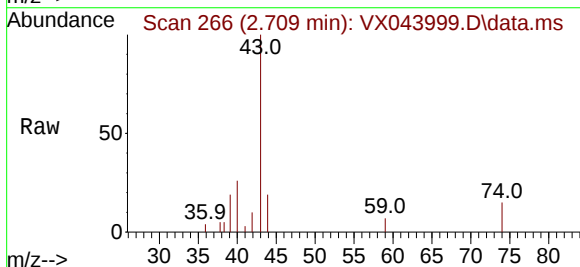
Acq: 25 Nov 2024 20:03

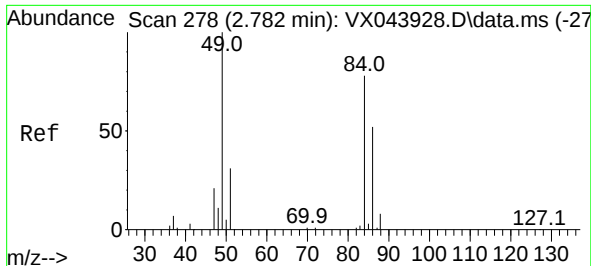
Tgt Ion: 43 Resp: 3560

Ion Ratio Lower Upper

43 100

74 17.4 18.9 28.3#





#20

Methylene Chloride

Concen: 1.428 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

MH-732

Tgt Ion: 84 Resp: 2244

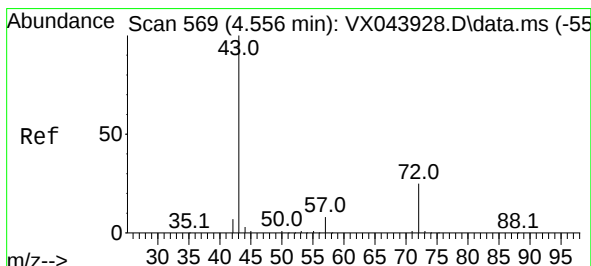
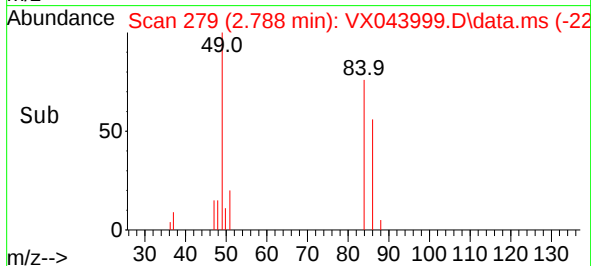
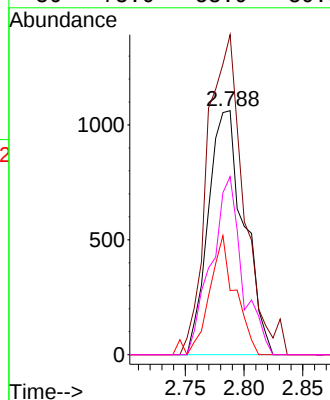
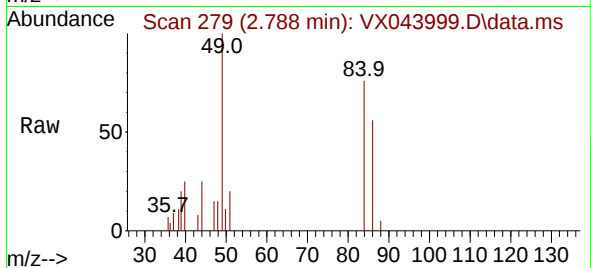
Ion Ratio Lower Upper

84 100

49 131.2 102.7 154.1

51 26.3 31.7 47.5#

86 73.0 53.9 80.9



#25

2-Butanone

Concen: 3.011 ug/l

RT: 4.593 min Scan# 575

Delta R.T. 0.036 min

Lab File: VX043999.D

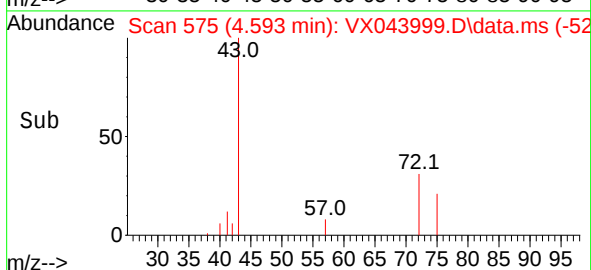
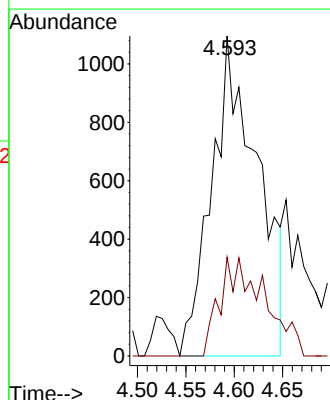
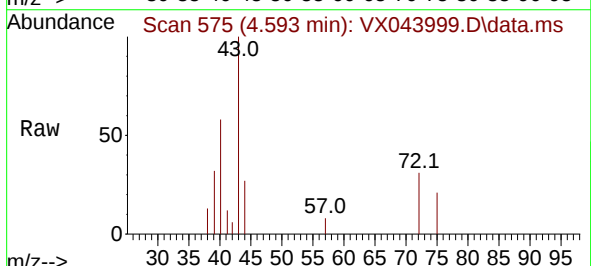
Acq: 25 Nov 2024 20:03

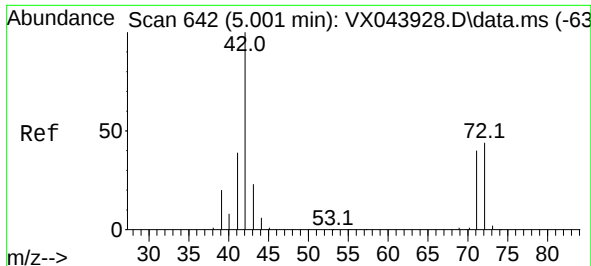
Tgt Ion: 43 Resp: 3598

Ion Ratio Lower Upper

43 100

72 30.8 20.2 30.2#





#29

Tetrahydrofuran

Concen: 0.872 ug/l

RT: 5.044 min Scan# 642

Delta R.T. 0.042 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

MH-732

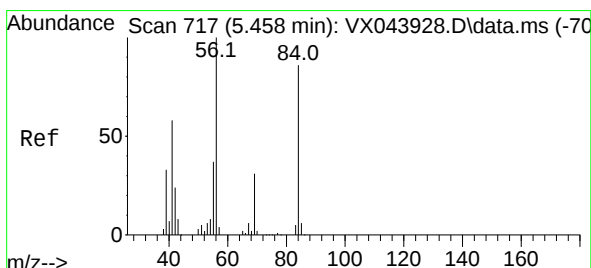
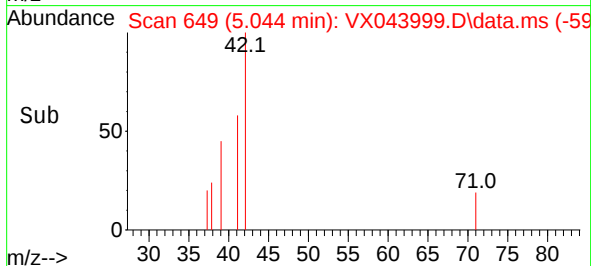
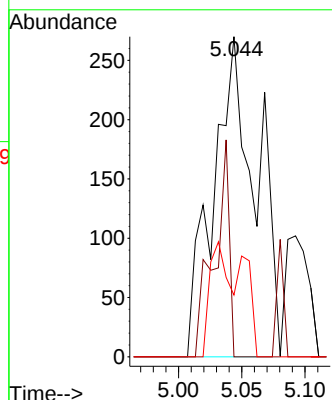
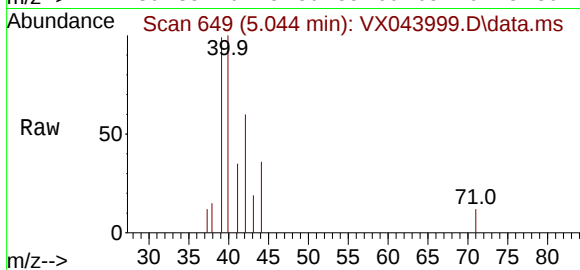
Tgt Ion: 42 Resp: 639

Ion Ratio Lower Upper

42 100

72 23.6 36.4 54.6#

71 16.9 33.4 50.0#



#31

Cyclohexane

Concen: 1.425 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.085 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

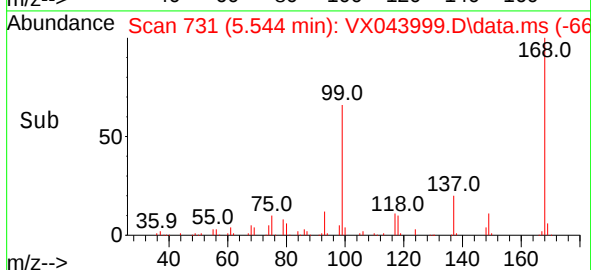
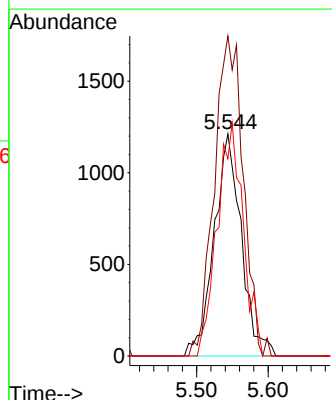
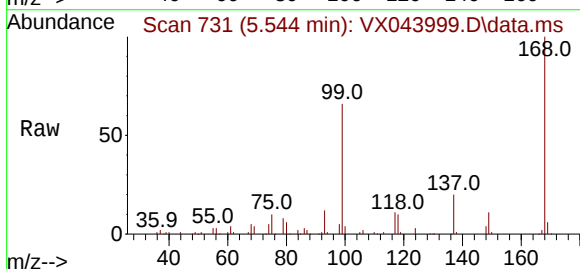
Tgt Ion: 56 Resp: 3202

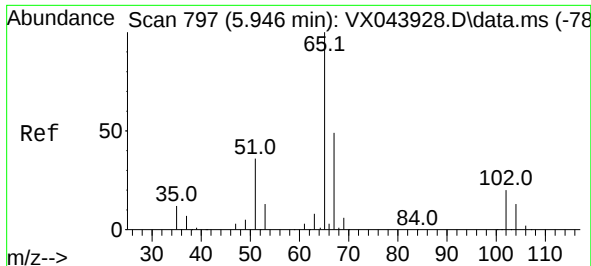
Ion Ratio Lower Upper

56 100

69 144.1 24.7 37.1#

84 88.8 68.7 103.1

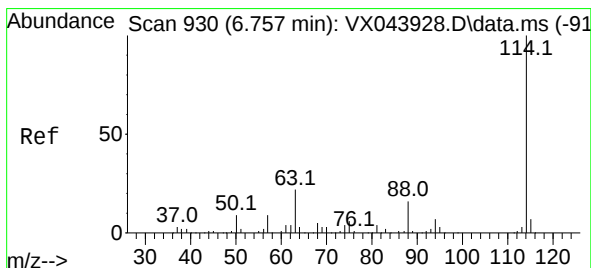
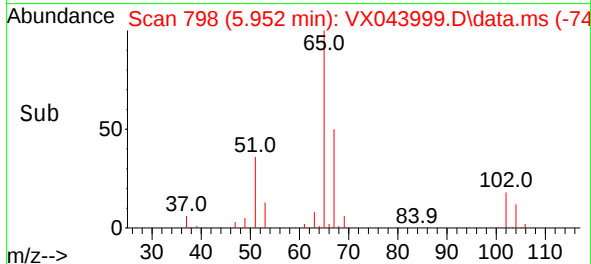
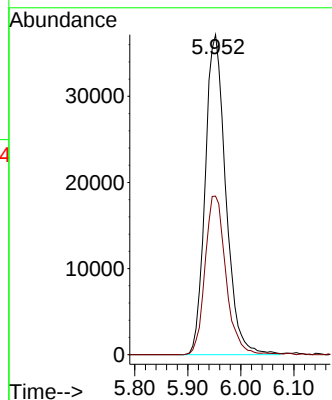
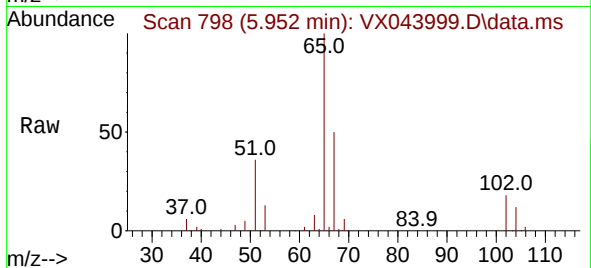




#33
 1,2-Dichloroethane-d4
 Concen: 49.713 ug/l
 RT: 5.952 min Scan# 797
 Delta R.T. 0.006 min
 Lab File: VX043999.D
 Acq: 25 Nov 2024 20:03

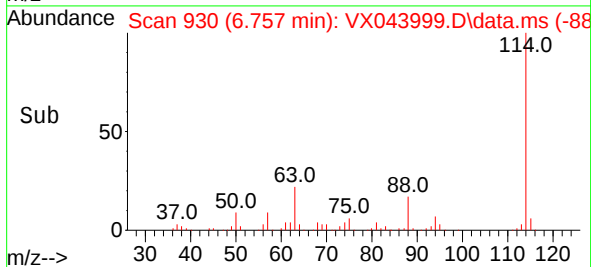
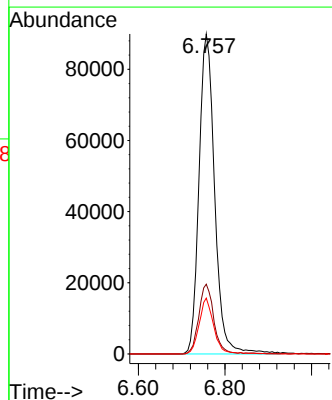
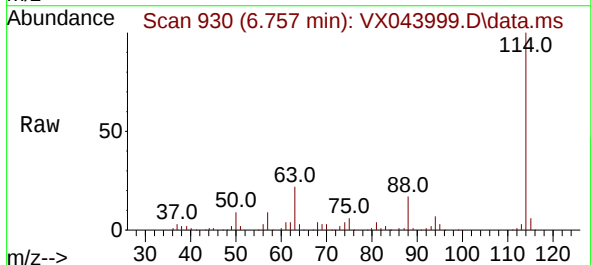
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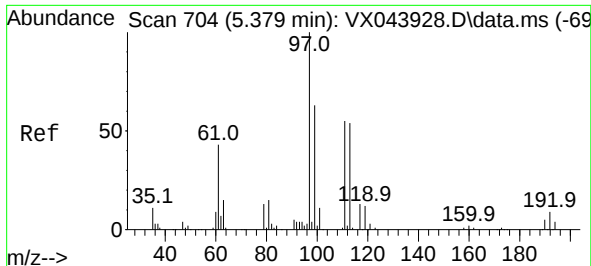
Tgt Ion: 65 Resp: 100223
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 930
 Delta R.T. -0.000 min
 Lab File: VX043999.D
 Acq: 25 Nov 2024 20:03

Tgt Ion: 114 Resp: 225495
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 44.0
 88 17.5 0.0 32.4





#35

Dibromofluoromethane

Concen: 44.627 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX043999.D

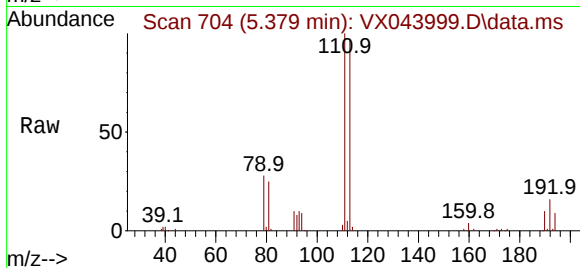
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Instrument :

MSVOA_X

ClientSampleId :

MH-732



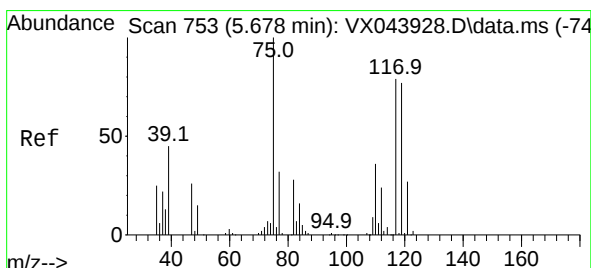
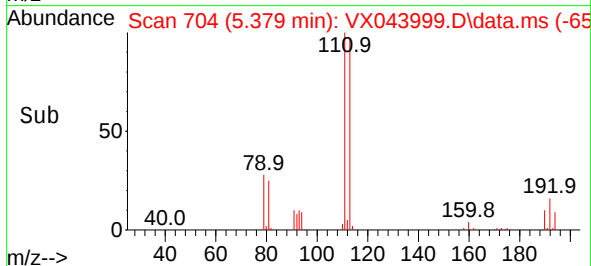
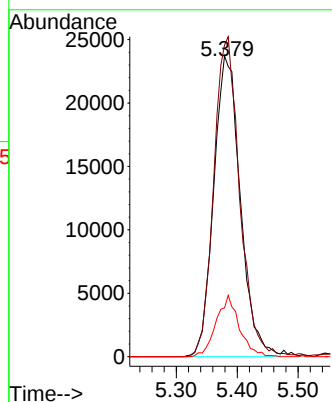
Tgt Ion:113 Resp: 71907

Ion Ratio Lower Upper

113 100

111 103.6 81.0 121.4

192 17.7 13.0 19.6



#36

1,1-Dichloropropene

Concen: 5.607 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.134 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

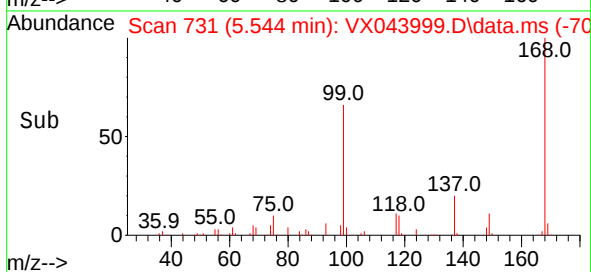
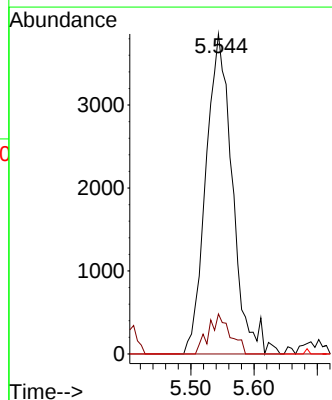
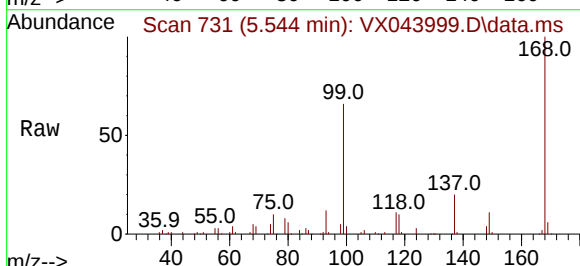
Tgt Ion: 75 Resp: 11259

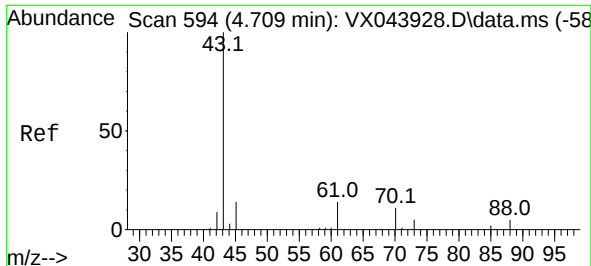
Ion Ratio Lower Upper

75 100

110 10.1 17.4 52.2#

77 0.0 25.8 38.8#





#37

Ethyl Acetate

Concen: 1.208 ug/l

RT: 4.751 min Scan# 601

Delta R.T. 0.043 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

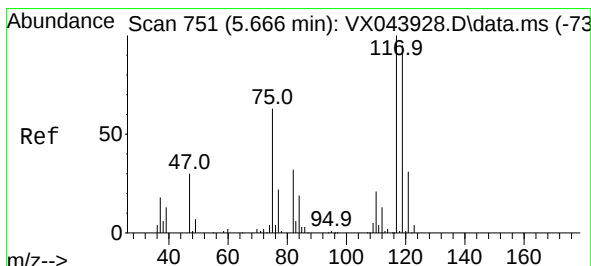
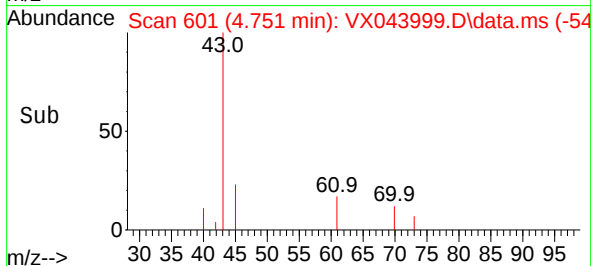
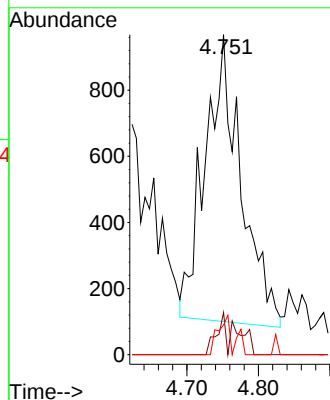
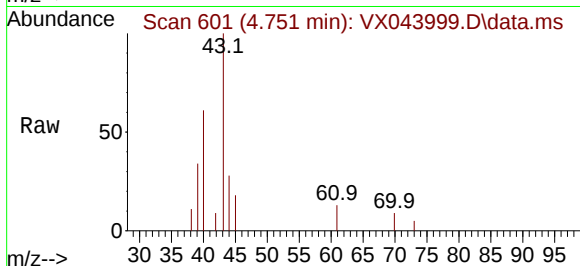
Instrument :

MSVOA_X

ClientSampleId :

MH-732

Tgt Ion:	43	Resp:	3011
Ion Ratio	Lower	Upper	
43	100		
61	3.6	10.7	16.1#
70	4.9	8.0	12.0#



#38

Carbon Tetrachloride

Concen: 6.021 ug/l

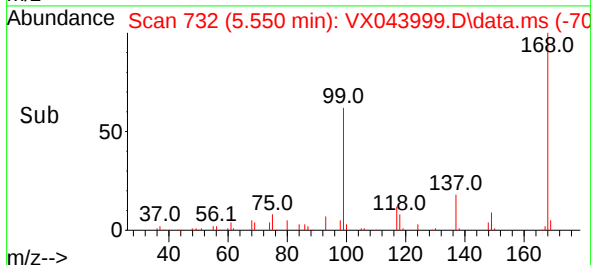
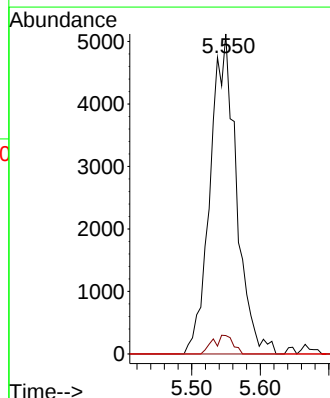
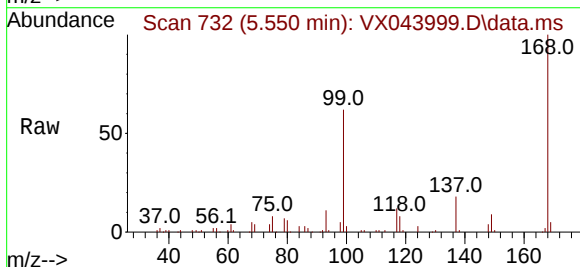
RT: 5.550 min Scan# 732

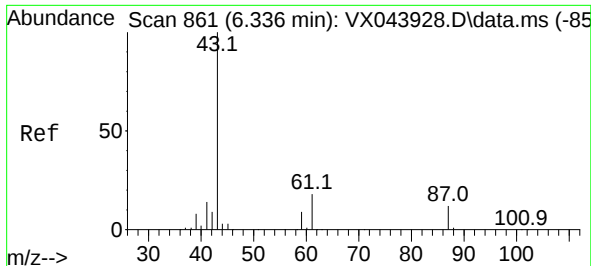
Delta R.T. -0.116 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Tgt Ion:	117	Resp:	13585
Ion Ratio	Lower	Upper	
117	100		
119	5.8	75.2	112.8#
121	0.0	24.5	36.7#





#43

Isopropyl Acetate

Concen: 29.149 ug/l

RT: 6.342 min Scan# 861

Delta R.T. 0.006 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

MH-732

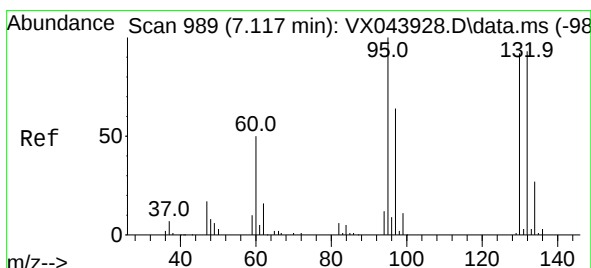
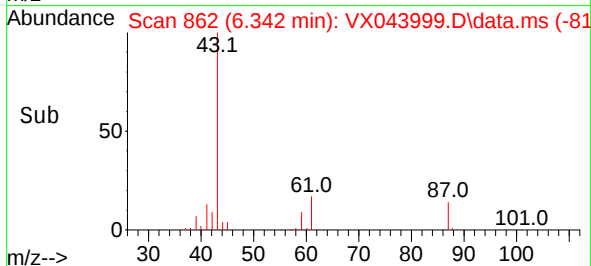
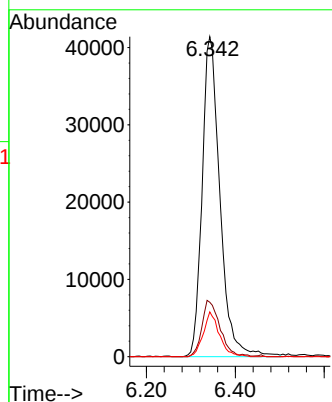
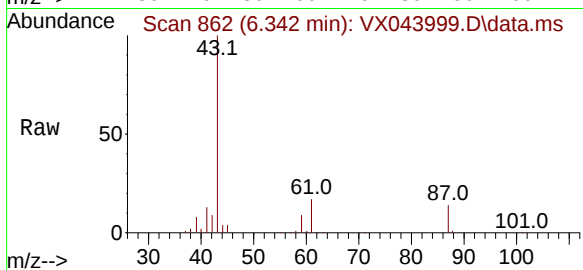
Tgt Ion: 43 Resp: 115619

Ion Ratio Lower Upper

43 100

61 17.5 14.5 21.7

87 12.7 10.2 15.2



#44

Trichloroethene

Concen: 0.537 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.012 min

Lab File: VX043999.D

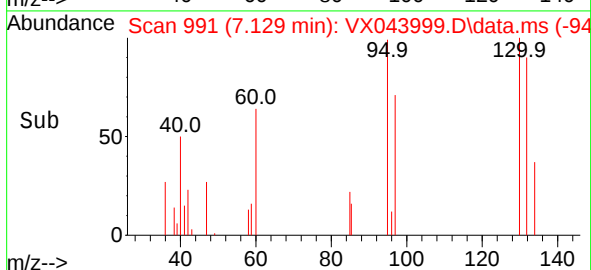
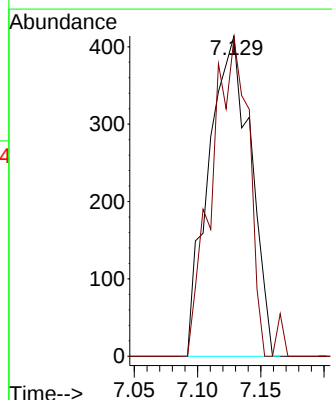
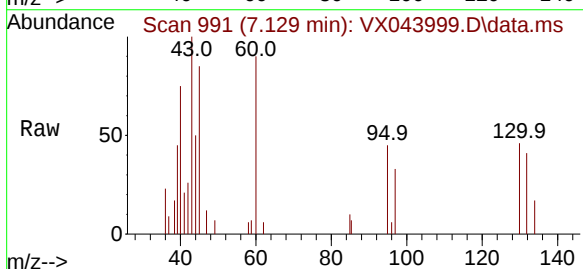
Acq: 25 Nov 2024 20:03

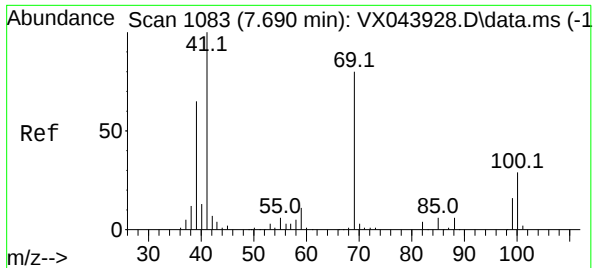
Tgt Ion:130 Resp: 951

Ion Ratio Lower Upper

130 100

95 99.3 0.0 217.8





#48

Methyl methacrylate

Concen: 52.648 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

MH-732

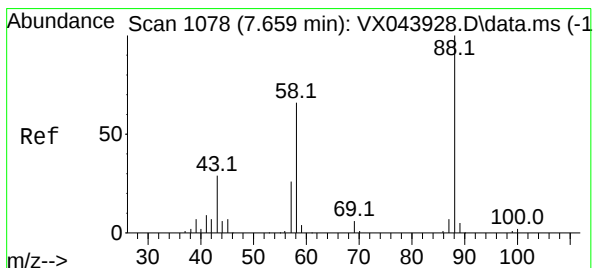
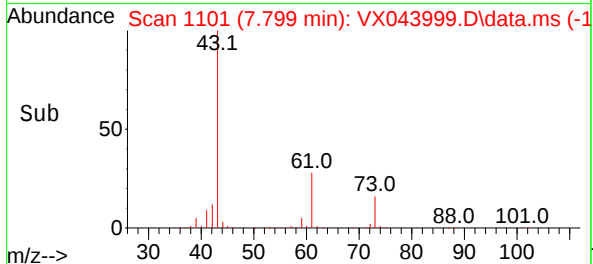
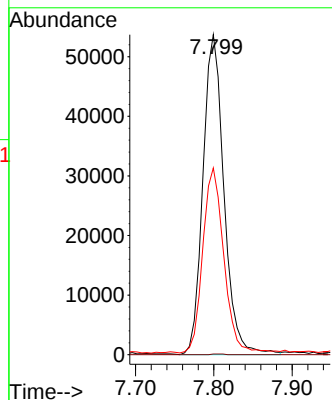
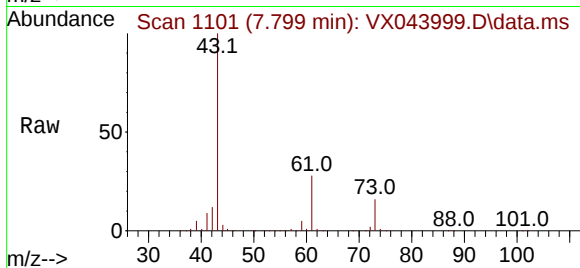
Tgt Ion: 41 Resp: 100204

Ion Ratio Lower Upper

41 100

69 0.1 64.6 97.0#

39 57.8 53.3 79.9



#49

1,4-Dioxane

Concen: 7.374 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.134 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

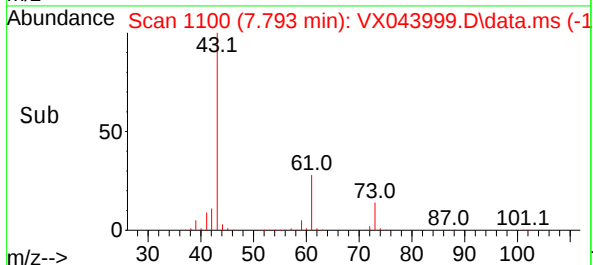
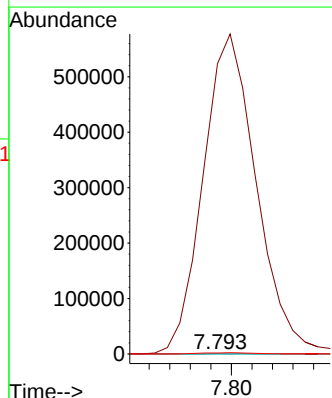
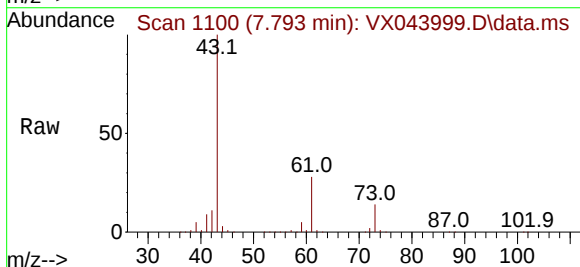
Tgt Ion: 88 Resp: 250

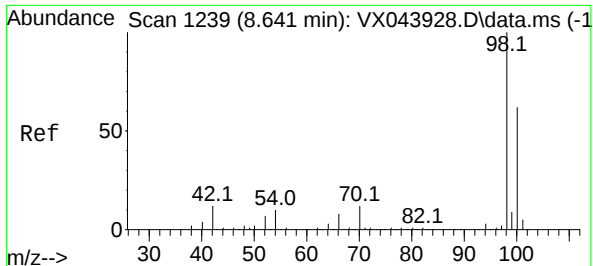
Ion Ratio Lower Upper

88 100

43 422885.2 26.8 40.2#

58 1756.4 45.4 68.2#





#50

Toluene-d8

Concen: 48.611 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.006 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

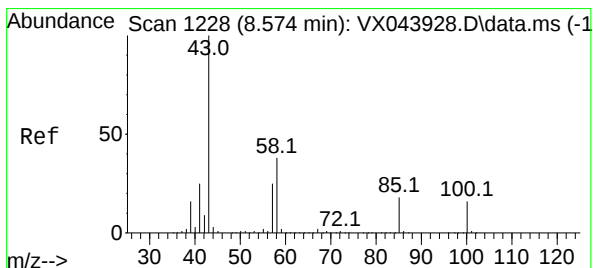
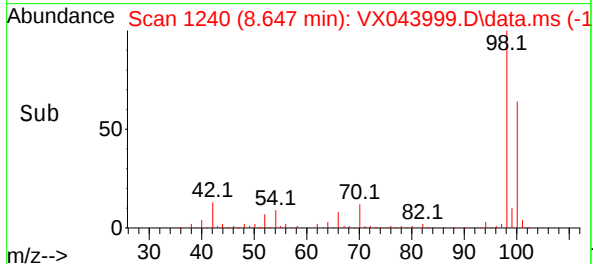
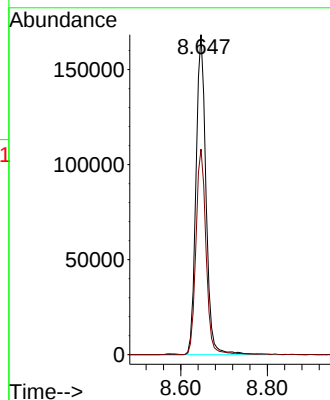
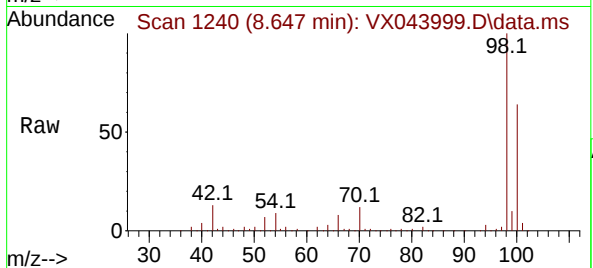
MH-732

Tgt Ion: 98 Resp: 269999

Ion Ratio Lower Upper

98 100

100 64.5 52.6 79.0



#51

4-Methyl-2-Pentanone

Concen: 34.716 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.025 min

Lab File: VX043999.D

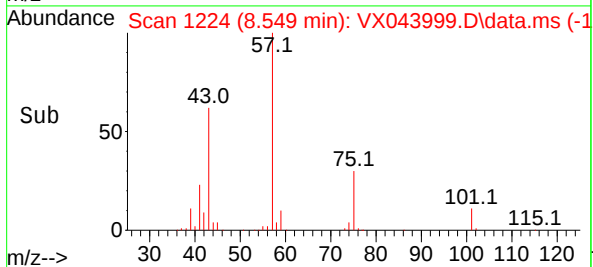
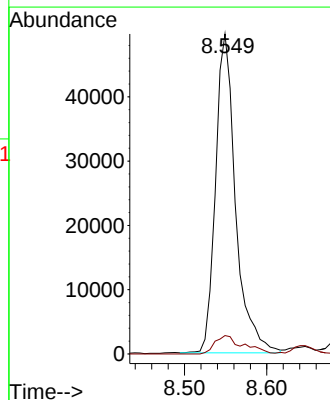
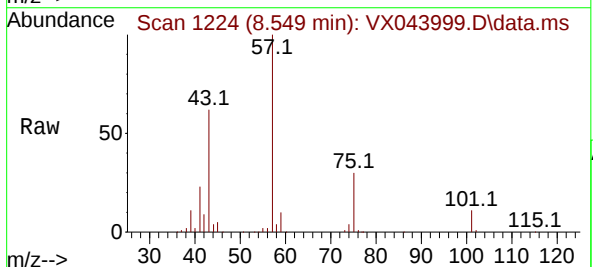
Acq: 25 Nov 2024 20:03

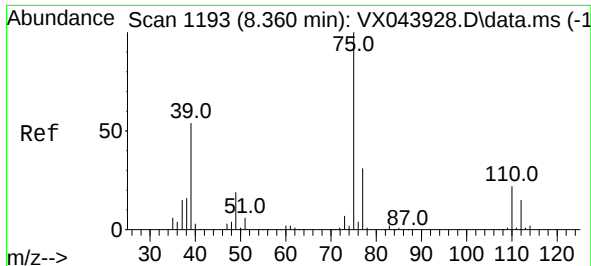
Tgt Ion: 43 Resp: 84033

Ion Ratio Lower Upper

43 100

58 8.2 30.0 45.0#

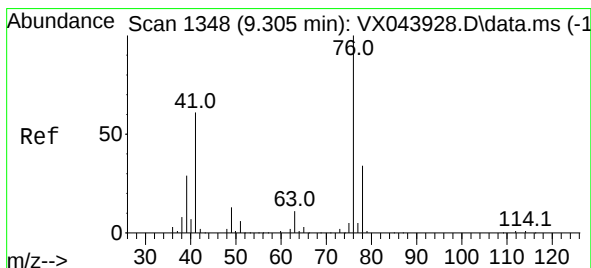
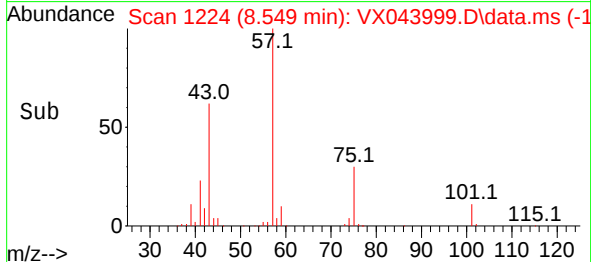
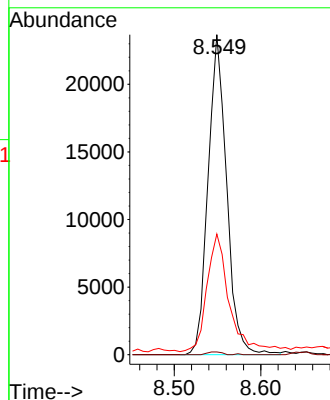
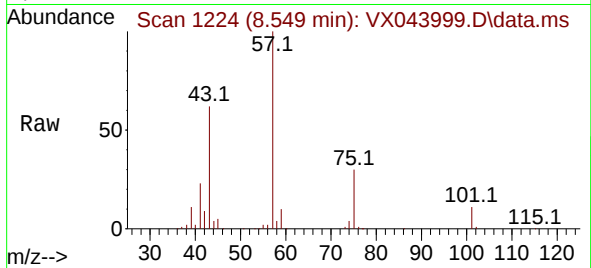




#54
cis-1,3-Dichloropropene
Concen: 14.515 ug/l
RT: 8.549 min Scan# 1193
Delta R.T. 0.189 min
Lab File: VX043999.D
Acq: 25 Nov 2024 20:03

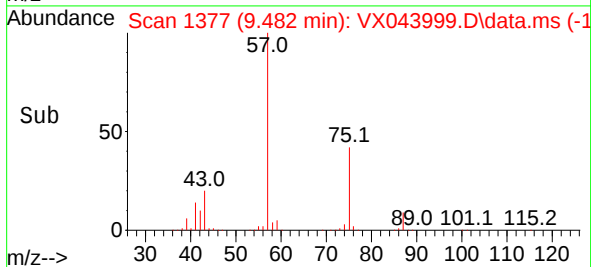
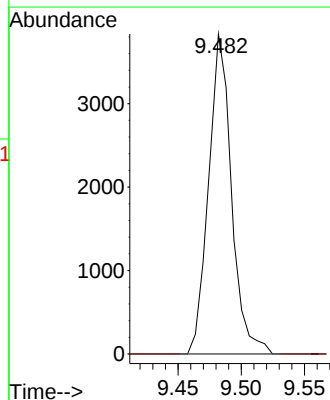
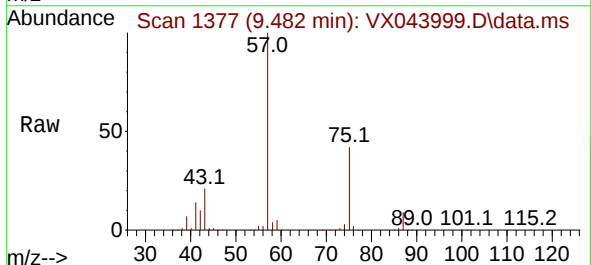
Instrument :
MSVOA_X
ClientSampleId :
MH-732

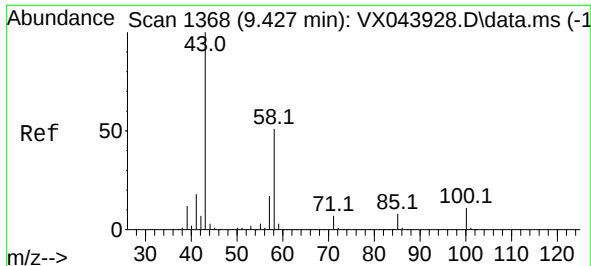
Tgt Ion: 75 Resp: 35265
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 36.7 43.1 64.7#



#57
1,3-Dichloropropane
Concen: 1.856 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX043999.D
Acq: 25 Nov 2024 20:03

Tgt Ion: 76 Resp: 4830
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

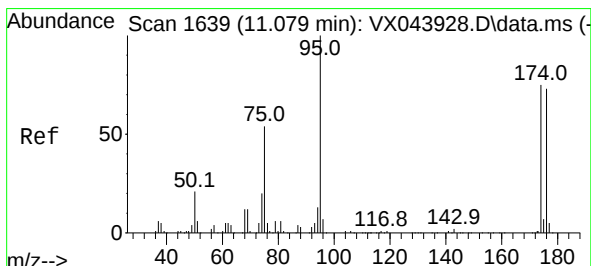
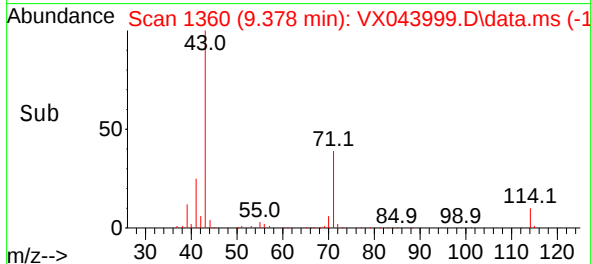
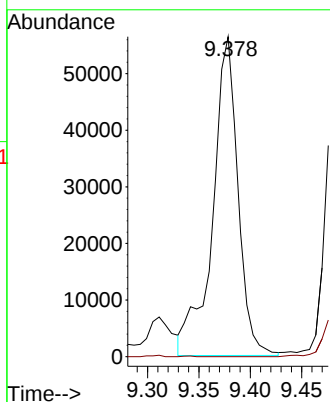
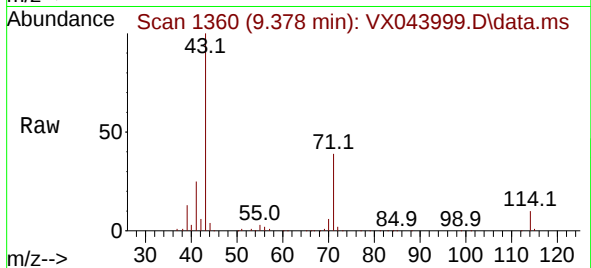




#59
2-Hexanone
Concen: 52.936 ug/l
RT: 9.378 min Scan# 1360
Delta R.T. -0.049 min
Lab File: VX043999.D
Acq: 25 Nov 2024 20:03

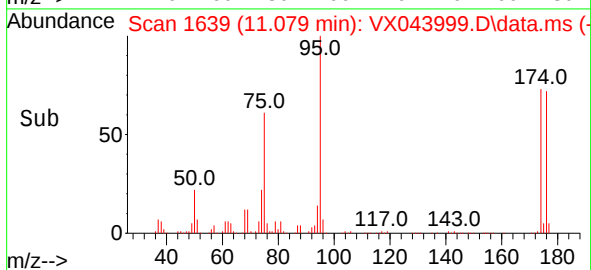
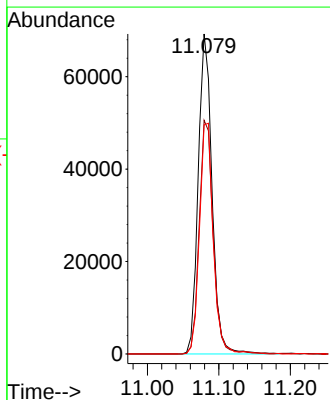
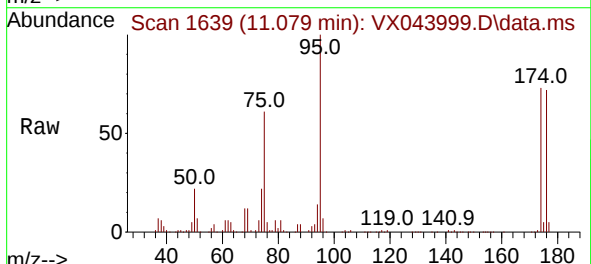
Instrument :
MSVOA_X
ClientSampleId :
MH-732

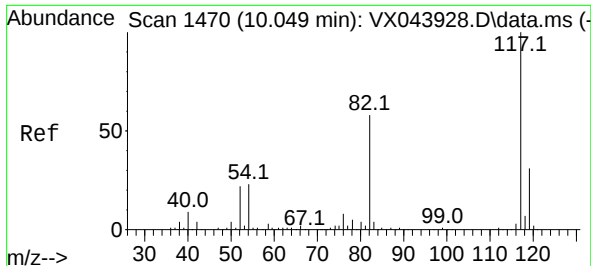
Tgt Ion: 43 Resp: 96310
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 49.021 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX043999.D
Acq: 25 Nov 2024 20:03

Tgt Ion: 95 Resp: 92663
Ion Ratio Lower Upper
95 100
174 74.3 0.0 150.4
176 72.2 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

MH-732

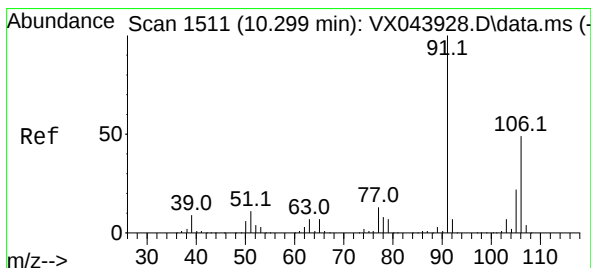
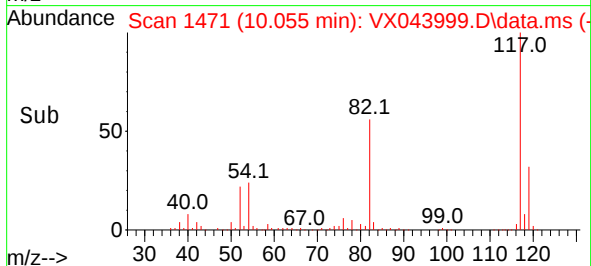
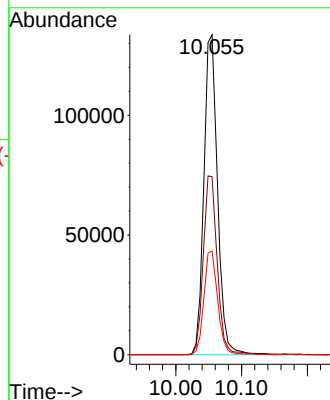
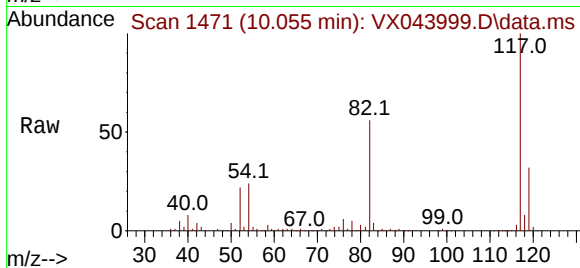
Tgt Ion:117 Resp: 193570

Ion Ratio Lower Upper

117 100

82 55.7 46.4 69.6

119 32.4 24.6 37.0



#68

m/p-Xylenes

Concen: 0.204 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX043999.D

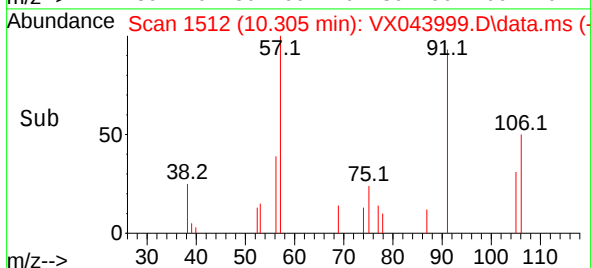
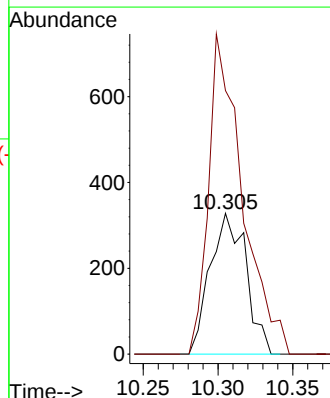
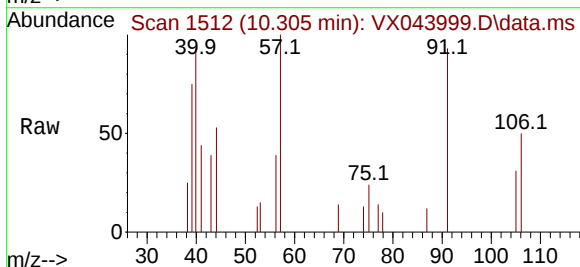
Acq: 25 Nov 2024 20:03

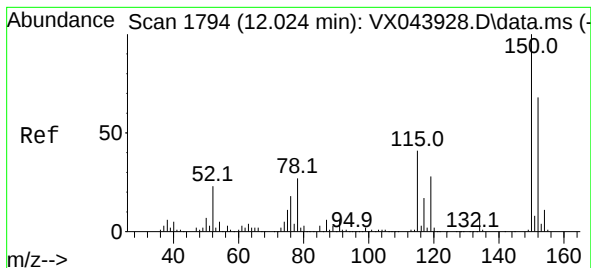
Tgt Ion:106 Resp: 547

Ion Ratio Lower Upper

106 100

91 214.8 168.1 252.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

MH-732

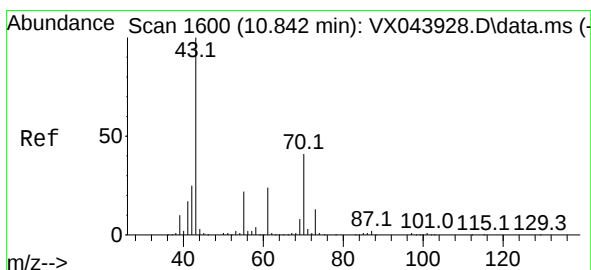
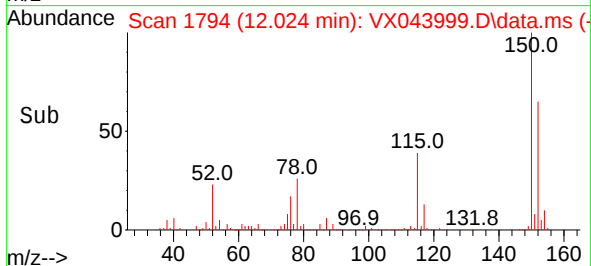
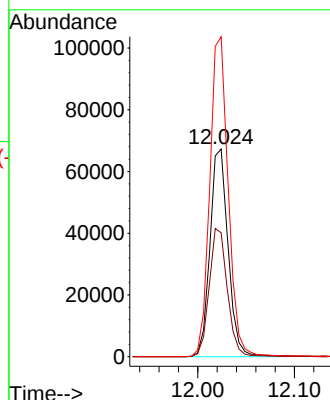
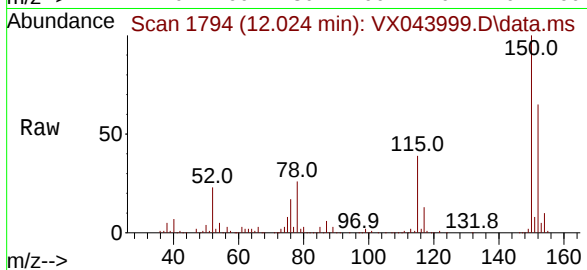
Tgt Ion:152 Resp: 87608

Ion Ratio Lower Upper

152 100

115 61.7 45.4 136.2

150 156.7 0.0 353.0



#74

N-ethyl acetate

Concen: 0.322 ug/l

RT: 10.823 min Scan# 1597

Delta R.T. -0.018 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Tgt Ion: 43 Resp: 1004

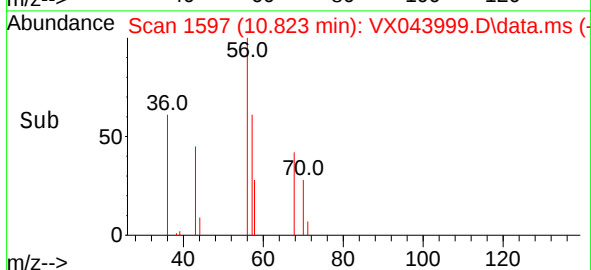
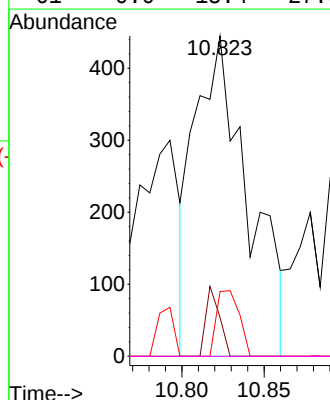
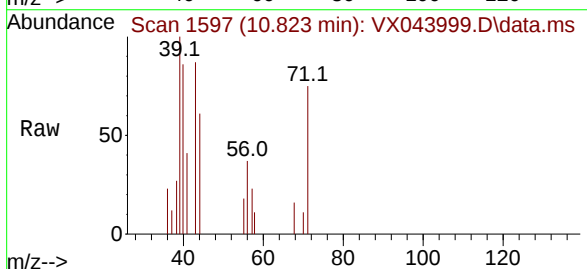
Ion Ratio Lower Upper

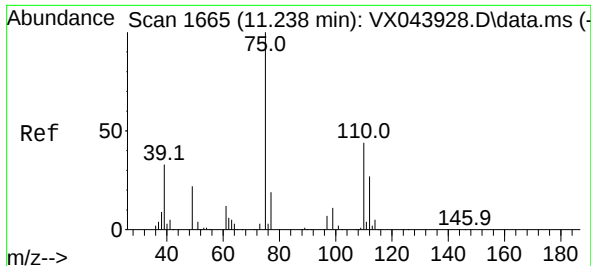
43 100

70 5.5 32.2 48.2#

55 8.7 18.1 27.1#

61 0.0 18.4 27.6#





#76

1,2,3-Trichloropropane

Concen: 27.163 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

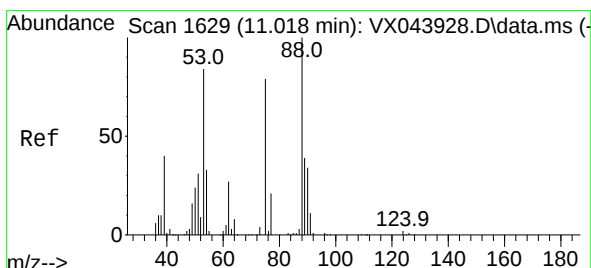
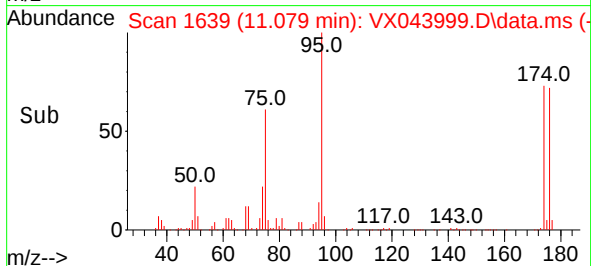
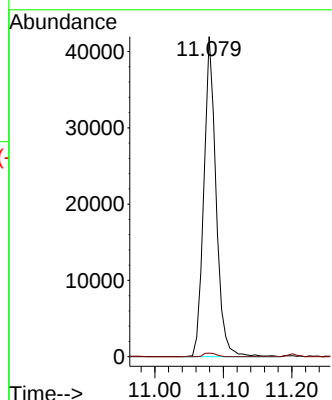
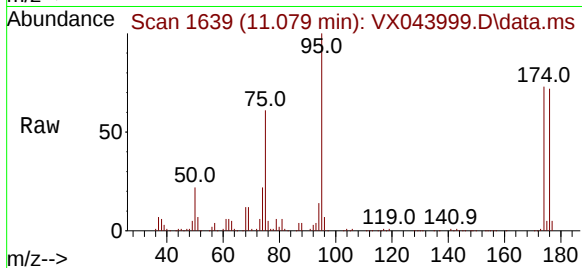
MH-732

Tgt Ion: 75 Resp: 52186

Ion Ratio Lower Upper

75 100

77 1.2 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.121 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

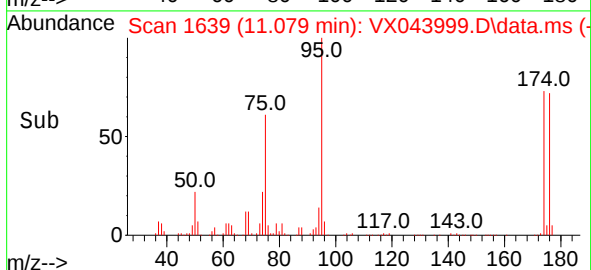
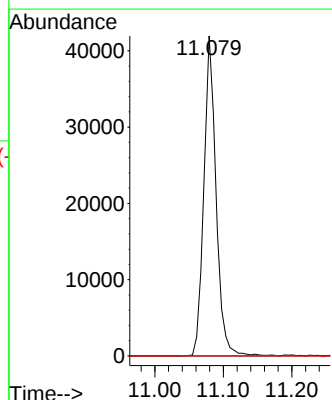
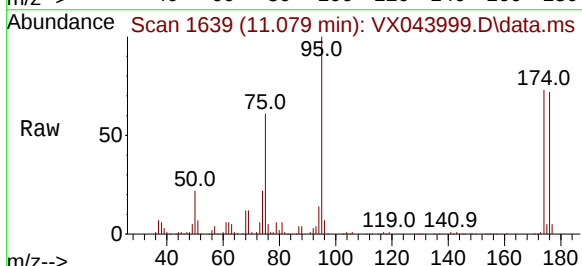
Tgt Ion: 75 Resp: 52186

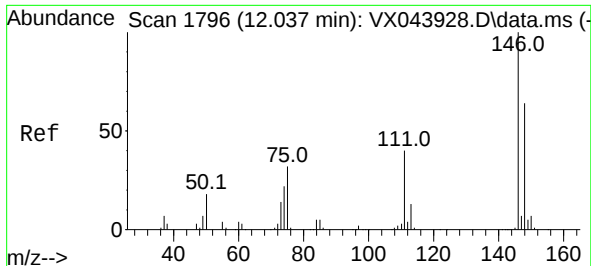
Ion Ratio Lower Upper

75 100

53 0.0 86.7 130.1#

89 0.0 38.2 57.2#





#88

1,4-Dichlorobenzene

Concen: 0.205 ug/l

RT: 12.042 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Instrument :

MSVOA_X

ClientSampleId :

MH-732

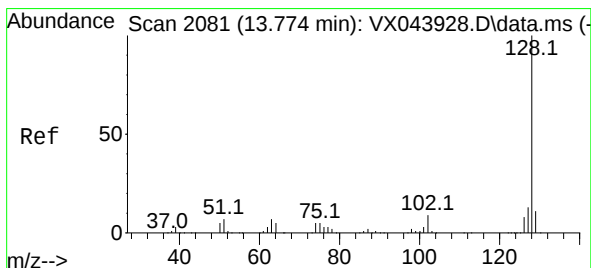
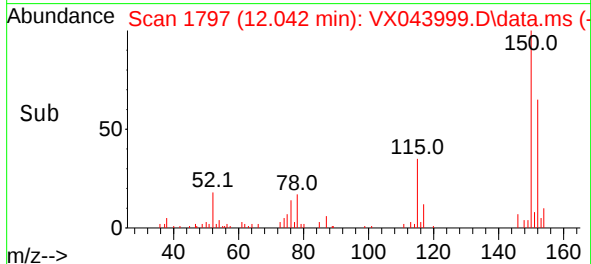
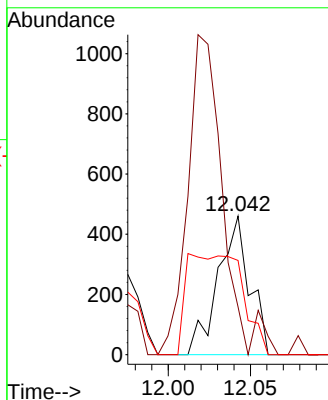
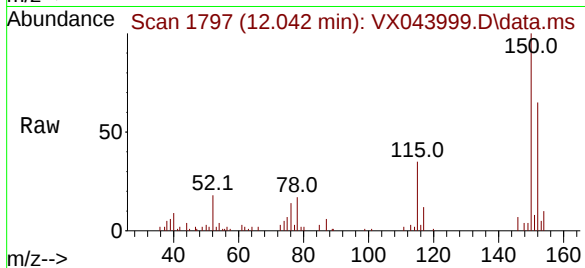
Tgt Ion:146 Resp: 612

Ion Ratio Lower Upper

146 100

111 0.0 20.1 60.3#

148 0.0 30.9 92.8#



#95

Naphthalene

Concen: 0.208 ug/l

RT: 13.786 min Scan# 2083

Delta R.T. 0.012 min

Lab File: VX043999.D

Acq: 25 Nov 2024 20:03

Tgt Ion:128 Resp: 1304

Ion Ratio Lower Upper

128 100

127 2.6 10.2 15.2#

129 6.4 8.6 12.8#

