

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092922\
 Data File : VX031771.D
 Acq On : 29 Sep 2022 14:23
 Operator : JC/MD
 Sample : N4860-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2R

Quant Time: Sep 30 04:31:41 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X092622W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 27 01:44:18 2022
 Response via : Initial Calibration

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

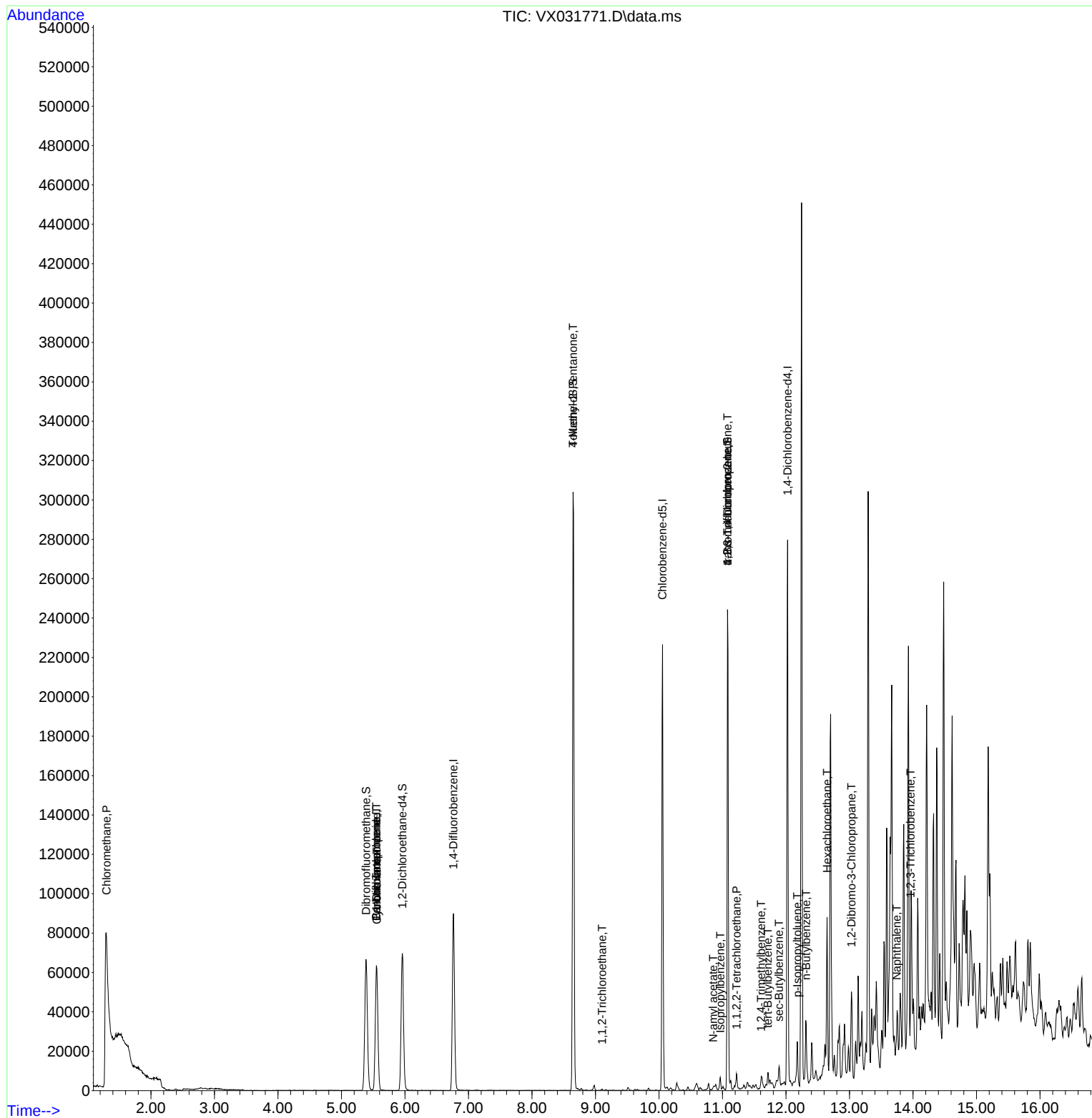
Internal Standards						
1) Pentafluorobenzene	5.550	168	60329	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	96671	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	99947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	56201	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	66108	51.630	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.260%	
35) Dibromofluoromethane	5.385	113	57179	49.641	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.280%	
50) Toluene-d8	8.647	98	186608	44.686	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 89.380%	
62) 4-Bromofluorobenzene	11.079	95	62594	40.896	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 81.800%#	
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	4412	3.912	ug/l #	41
5) Bromomethane	1.618	94	387	Below Cal		92
11) Tert butyl alcohol	2.995	59	24	Below Cal	#	73
16) Acetone	2.392	43	897	Below Cal		99
17) Carbon Disulfide	2.508	76	1305	Below Cal	#	75
20) Methylene Chloride	2.782	84	155	Below Cal	#	46
31) Cyclohexane	5.556	56	1246	1.023	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	4669	3.530	ug/l #	52
38) Carbon Tetrachloride	5.550	117	6340	4.253	ug/l #	17
51) 4-Methyl-2-Pentanone	8.647	43	764	0.575	ug/l #	1
55) 1,1,2-Trichloroethane	9.104	97	342	0.293	ug/l #	15
73) Isopropylbenzene	10.964	105	3325	0.915	ug/l	95
74) N-amyl acetate	10.854	43	240	0.204	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.220	83	502	0.435	ug/l #	30
76) 1,2,3-Trichloropropane	11.079	75	33096	32.483	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	33096	106.815	ug/l #	11
83) tert-Butylbenzene	11.713	119	1650	0.555	ug/l	92
84) 1,2,4-Trimethylbenzene	11.610	105	1781	0.584	ug/l	74
85) sec-Butylbenzene	11.890	105	3959	1.049	ug/l	93
86) p-Isopropyltoluene	12.177	119	9029	2.773	ug/l	92
89) n-Butylbenzene	12.317	91	2333	0.877	ug/l #	9
90) Hexachloroethane	12.646	117	26537	50.825	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	13.030	75	272	1.175	ug/l #	3
95) Naphthalene	13.744	128	1437	0.410	ug/l #	1
96) 1,2,3-Trichlorobenzene	13.963	180	238	0.221	ug/l #	1

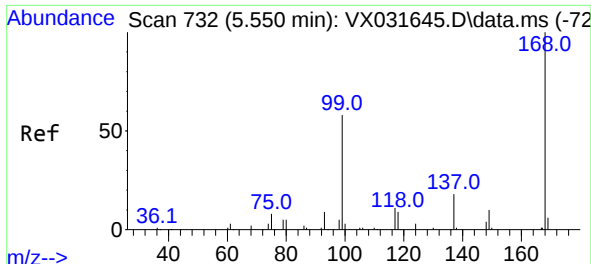
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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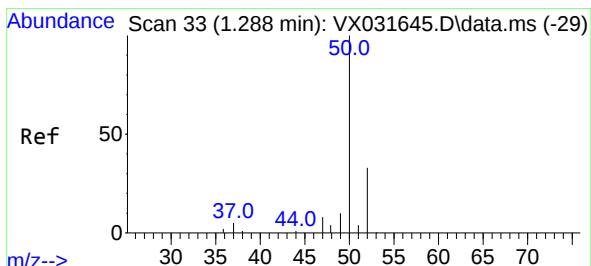
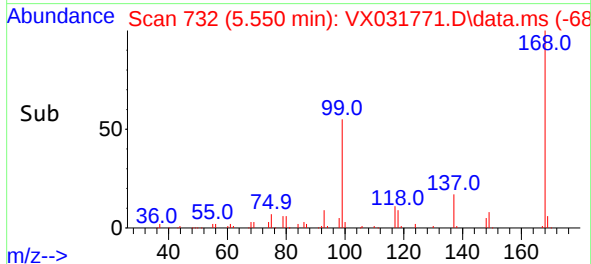
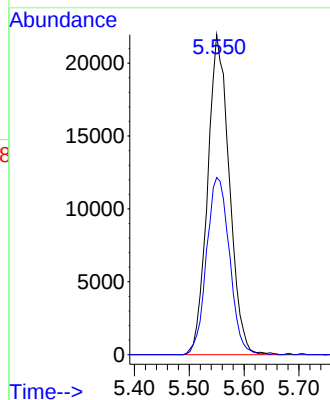
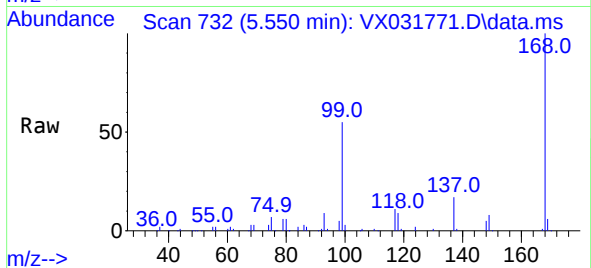




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

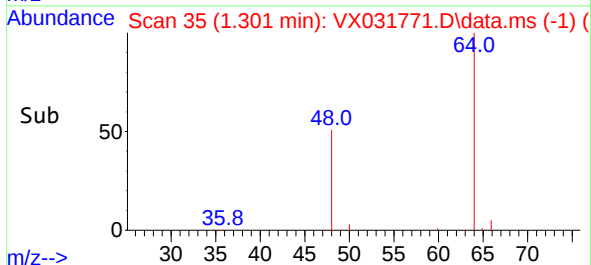
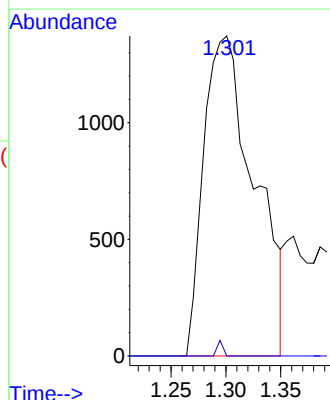
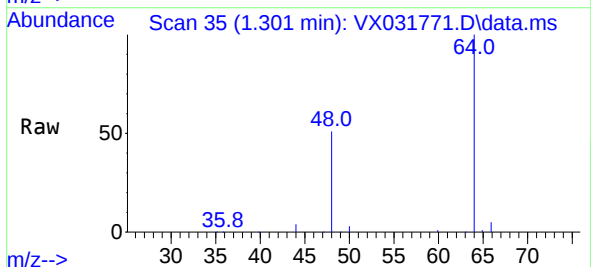
Instrument :
MSVOA_X
ClientSampleId :
MW-2R

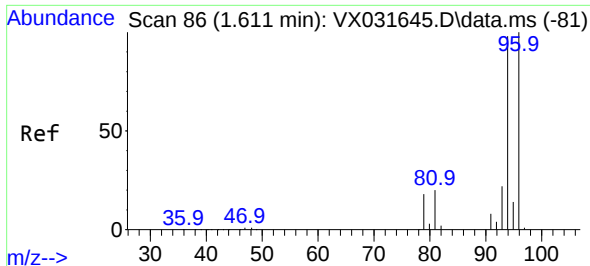
Tgt Ion:168 Resp: 60329
Ion Ratio Lower Upper
168 100
99 55.4 48.8 73.2



#3
Chloromethane
Concen: 3.912 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.013 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion: 50 Resp: 4412
Ion Ratio Lower Upper
50 100
52 0.0 26.9 40.3#

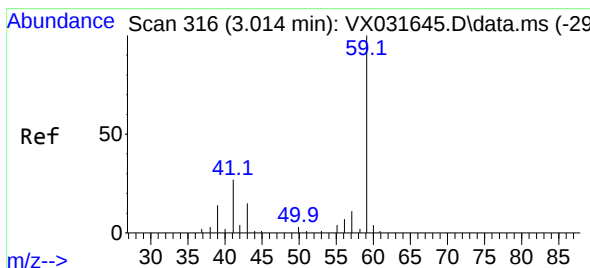
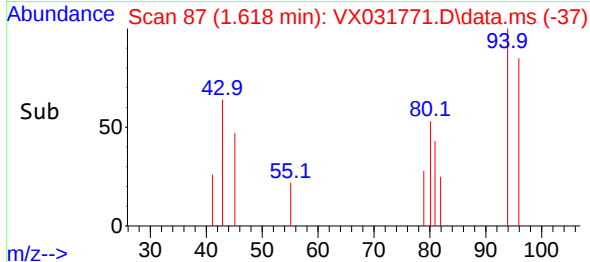
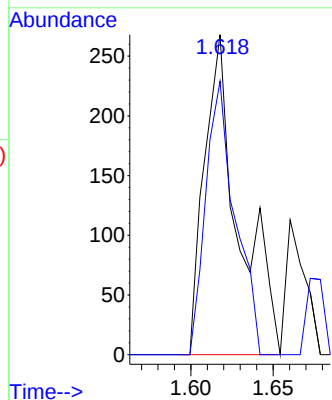
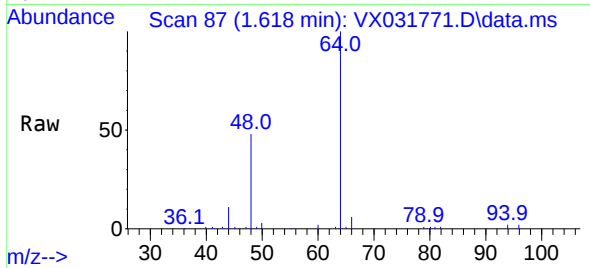




#5
Bromomethane
Concen: Below Cal
RT: 1.618 min Scan# 81
Delta R.T. 0.007 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

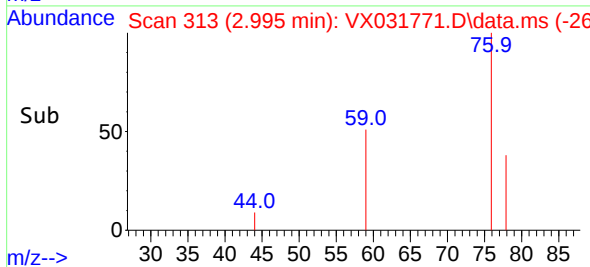
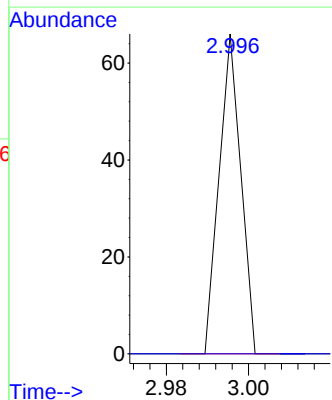
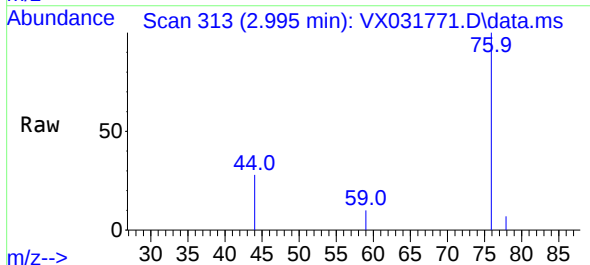
Instrument :
MSVOA_X
ClientSampleId :
MW-2R

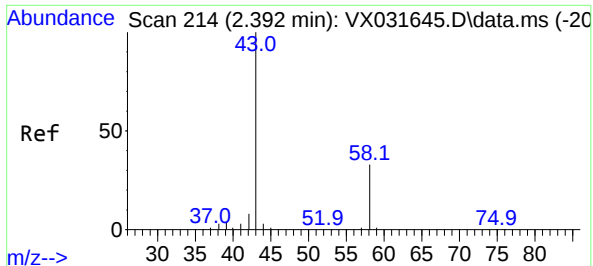
Tgt Ion: 94 Resp: 387
Ion Ratio Lower Upper
94 100
96 85.4 74.4 111.6



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.995 min Scan# 313
Delta R.T. 0.006 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion: 59 Resp: 24
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

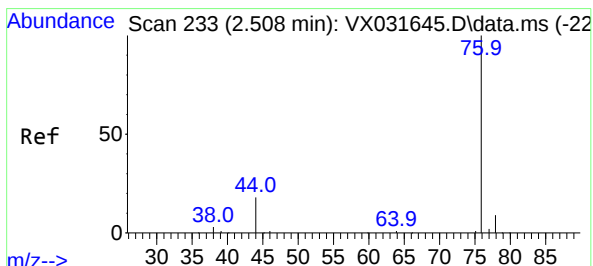
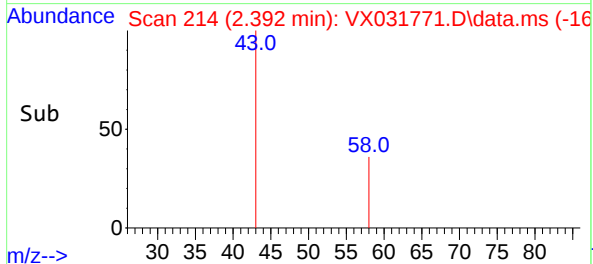
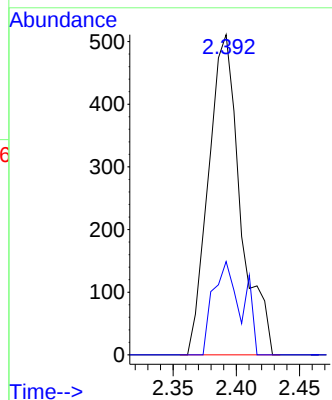
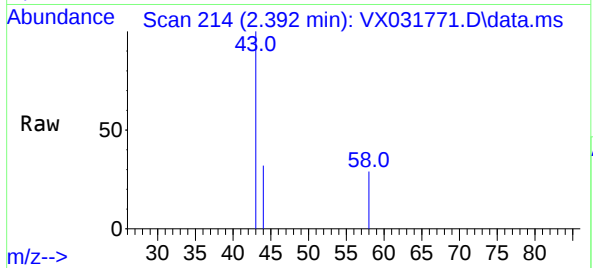




#16
Acetone
Concen: Below Cal
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

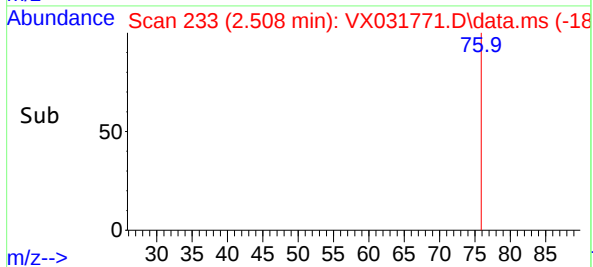
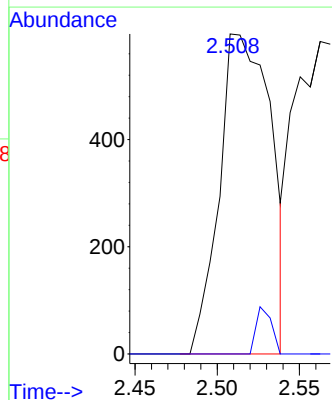
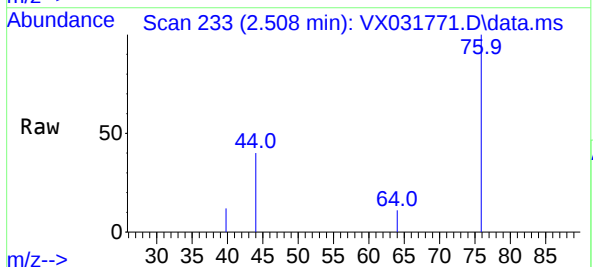
Instrument :
MSVOA_X
ClientSampleId :
MW-2R

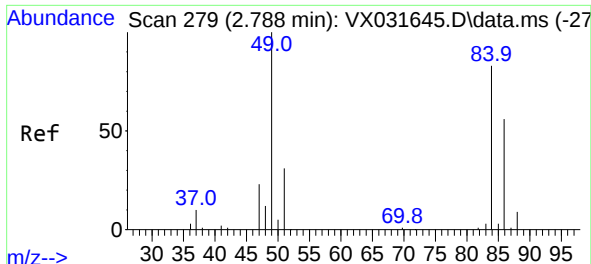
Tgt Ion: 43 Resp: 897
Ion Ratio Lower Upper
43 100
58 29.2 23.8 35.8



#17
Carbon Disulfide
Concen: Below Cal
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion: 76 Resp: 1305
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.782 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

Tgt Ion: 84 Resp: 155

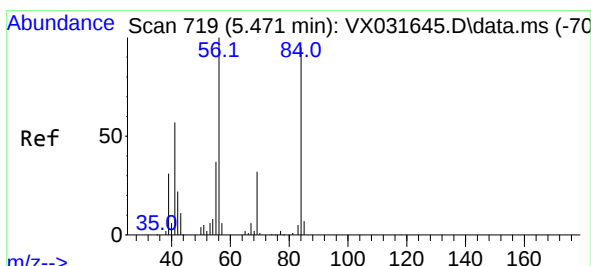
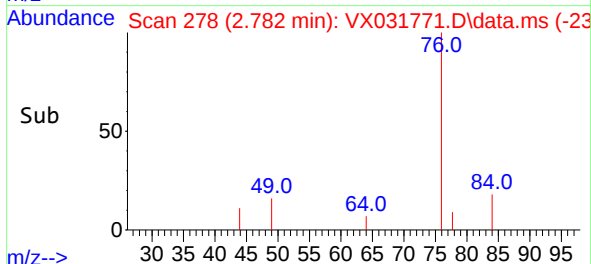
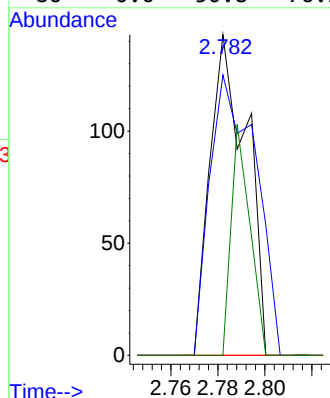
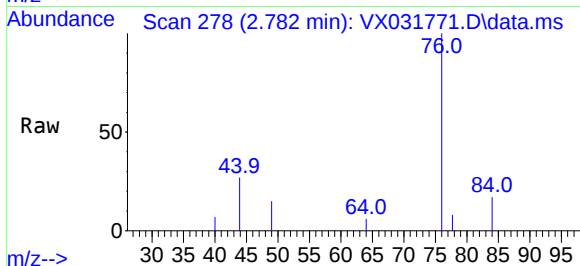
Ion Ratio Lower Upper

84 100

49 87.4 105.9 158.9#

51 0.0 32.2 48.2#

86 0.0 50.8 76.2#



#31

Cyclohexane

Concen: 1.023 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

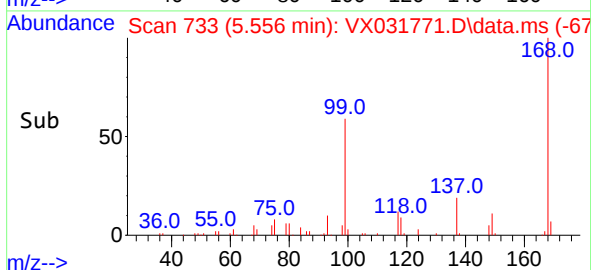
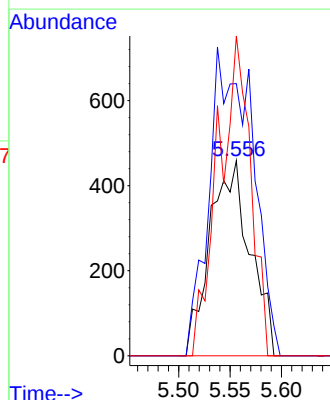
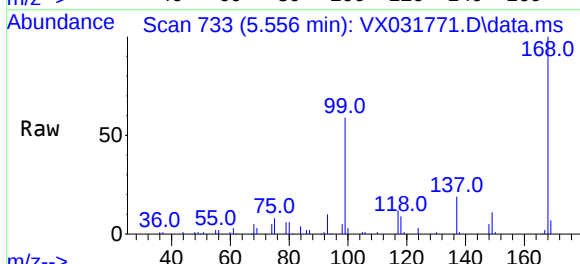
Tgt Ion: 56 Resp: 1246

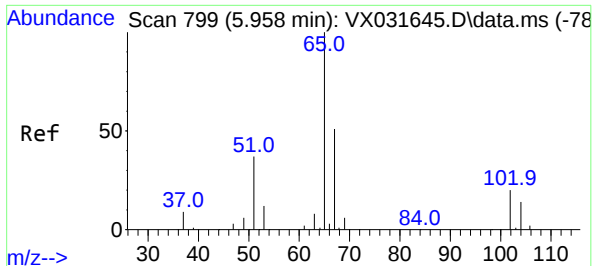
Ion Ratio Lower Upper

56 100

69 139.4 25.1 37.7#

84 163.8 70.2 105.4#





#33

1,2-Dichloroethane-d4

Concen: 51.630 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Instrument :

MSVOA_X

ClientSampleId :

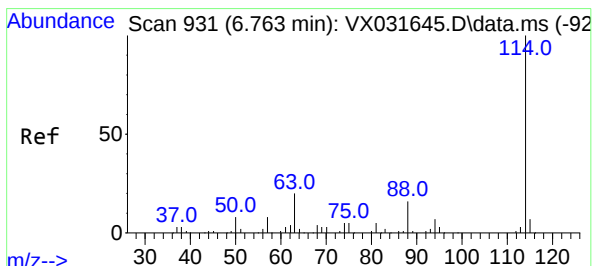
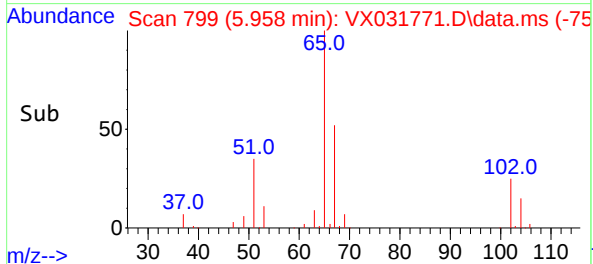
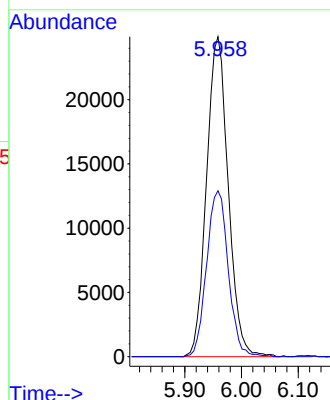
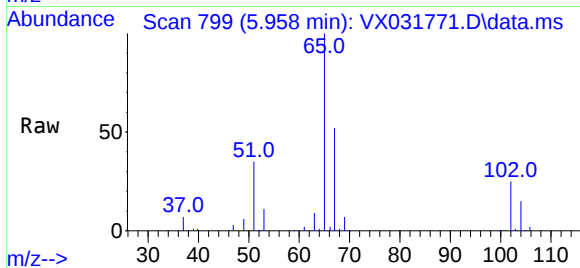
MW-2R

Tgt Ion: 65 Resp: 66108

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

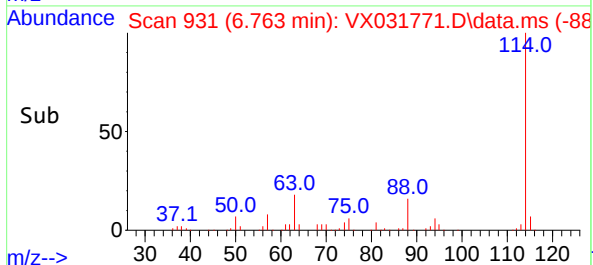
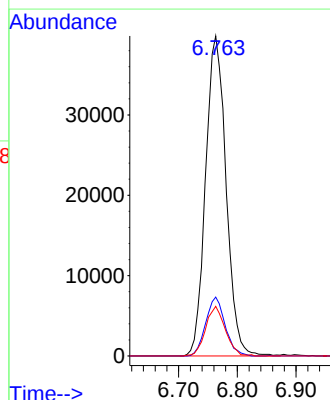
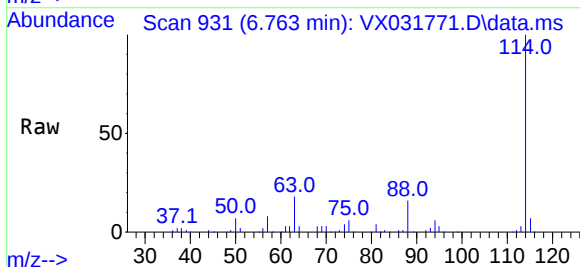
Tgt Ion: 114 Resp: 96671

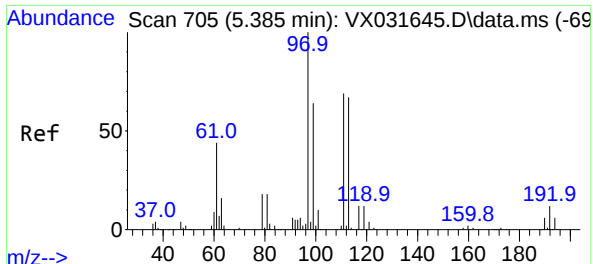
Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.6

88 15.5 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.641 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

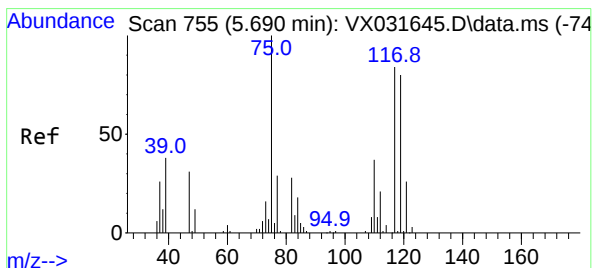
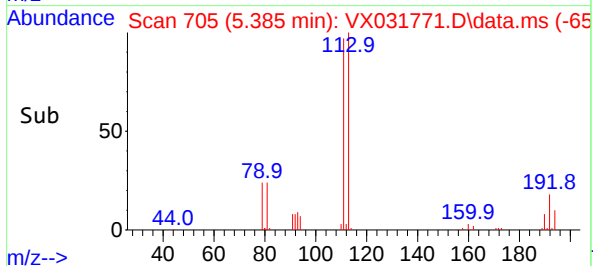
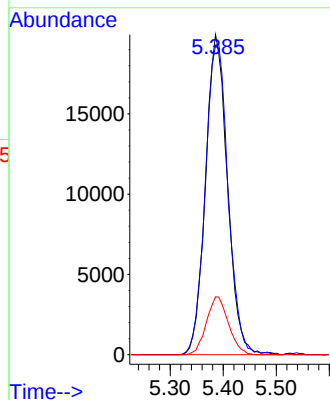
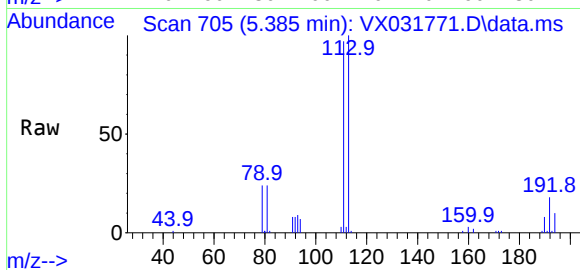
Tgt Ion:113 Resp: 57179

Ion Ratio Lower Upper

113 100

111 101.1 82.4 123.6

192 18.2 14.1 21.1



#36

1,1-Dichloropropene

Concen: 3.530 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.140 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

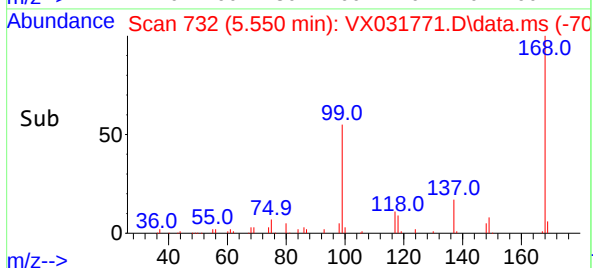
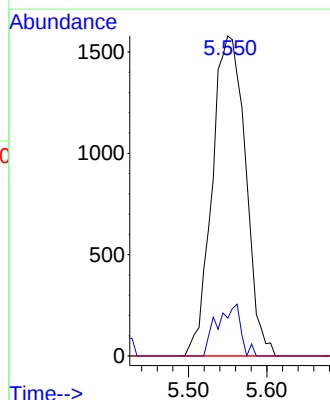
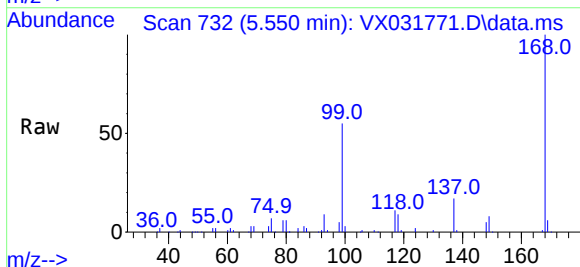
Tgt Ion: 75 Resp: 4669

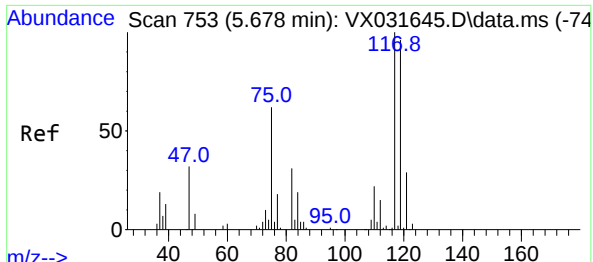
Ion Ratio Lower Upper

75 100

110 11.5 17.5 52.5#

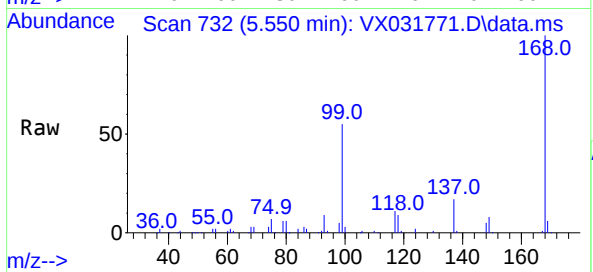
77 0.0 24.9 37.3#



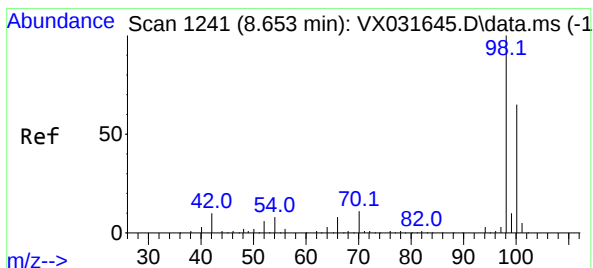
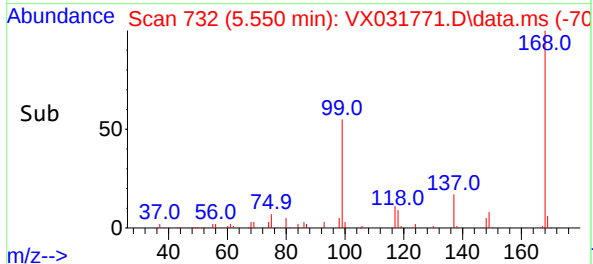
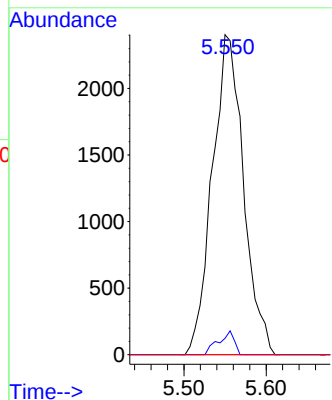


#38
Carbon Tetrachloride
Concen: 4.253 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Instrument :
MSVOA_X
ClientSampleId :
MW-2R

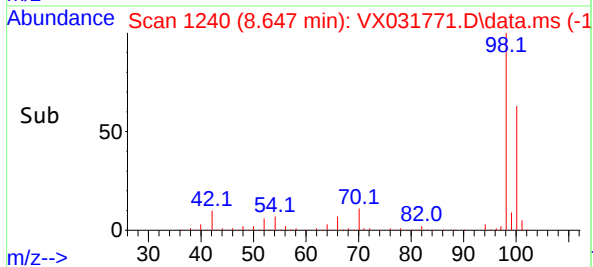
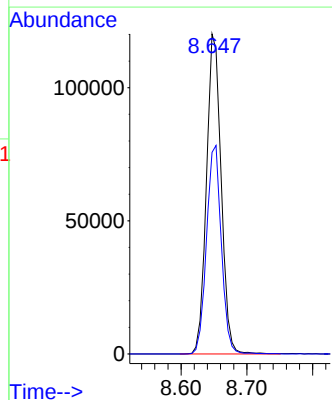
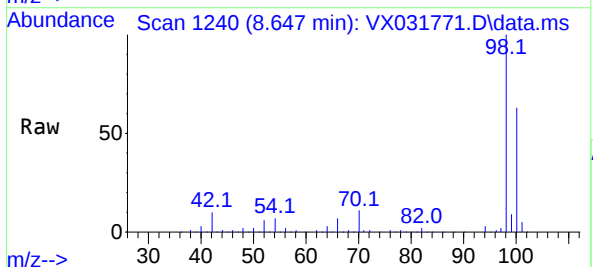


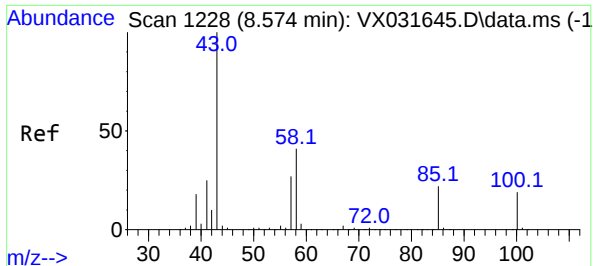
Tgt Ion:117 Resp: 6340
Ion Ratio Lower Upper
117 100
119 5.1 74.6 112.0#
121 0.0 25.3 37.9#



#50
Toluene-d8
Concen: 44.686 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion: 98 Resp: 186608
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.575 ug/l

RT: 8.647 min Scan# 1315

Delta R.T. 0.067 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Instrument :

MSVOA_X

ClientSampleId :

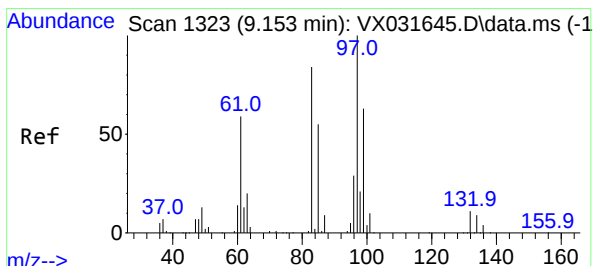
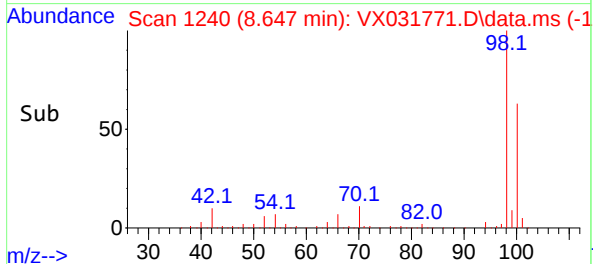
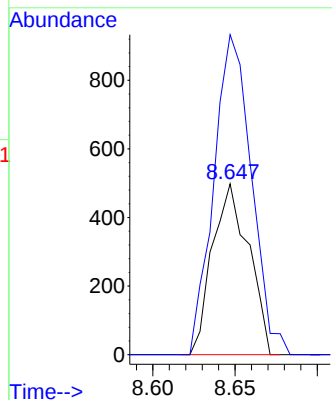
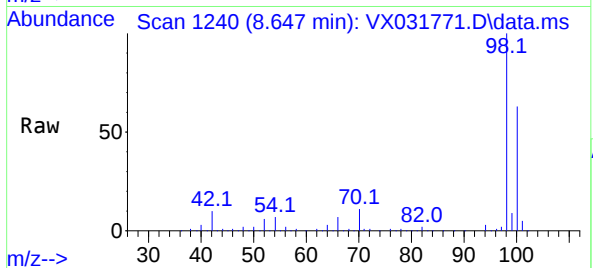
MW-2R

Tgt Ion: 43 Resp: 764

Ion Ratio Lower Upper

43 100

58 194.6 30.6 46.0#



#55

1,1,2-Trichloroethane

Concen: 0.293 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.049 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Tgt Ion: 97 Resp: 342

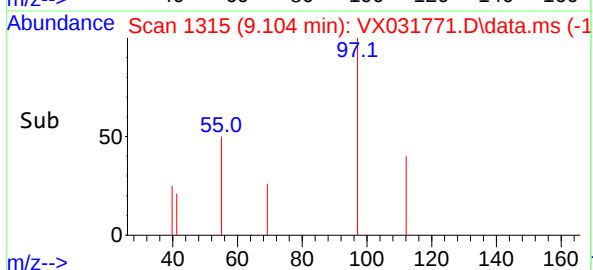
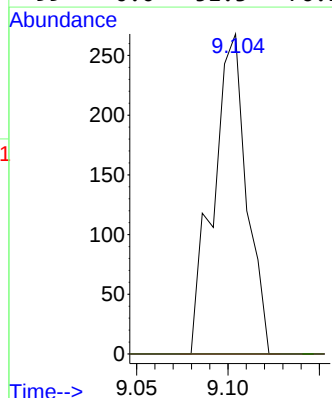
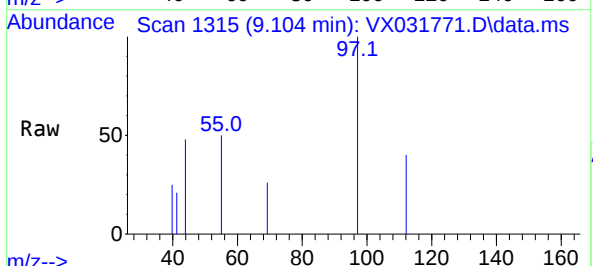
Ion Ratio Lower Upper

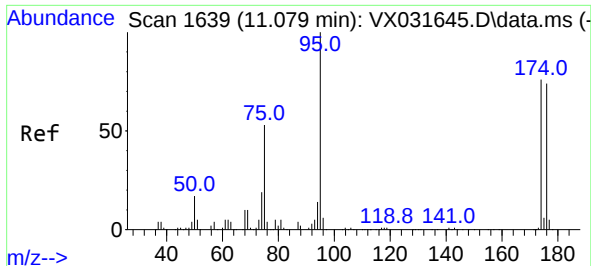
97 100

83 0.0 69.0 103.6#

85 0.0 44.1 66.1#

99 0.0 51.3 76.9#





#62

4-Bromofluorobenzene

Concen: 40.896 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

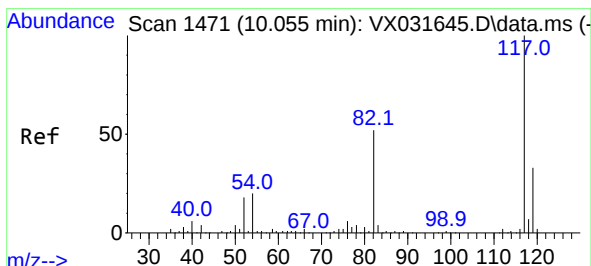
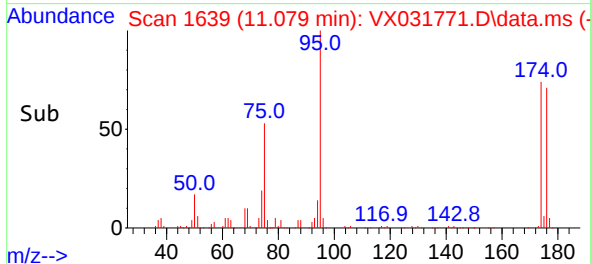
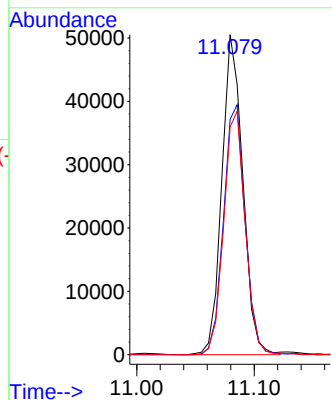
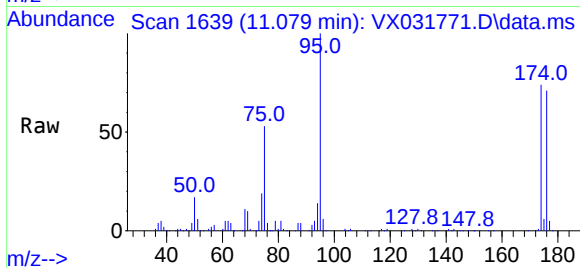
Tgt Ion: 95 Resp: 62594

Ion Ratio Lower Upper

95 100

174 80.7 0.0 153.2

176 77.9 0.0 144.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

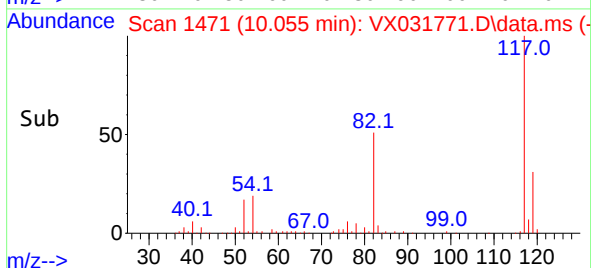
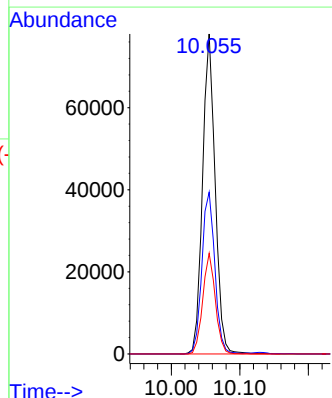
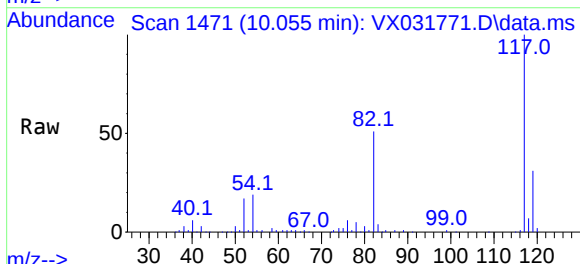
Tgt Ion: 117 Resp: 99947

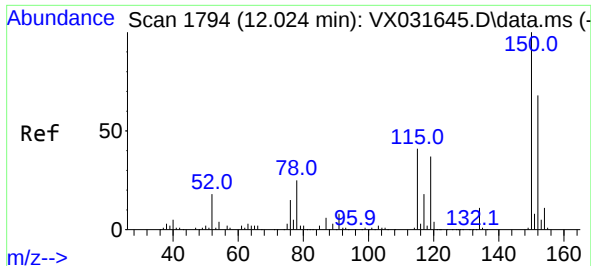
Ion Ratio Lower Upper

117 100

82 50.5 46.8 70.2

119 31.4 26.4 39.6

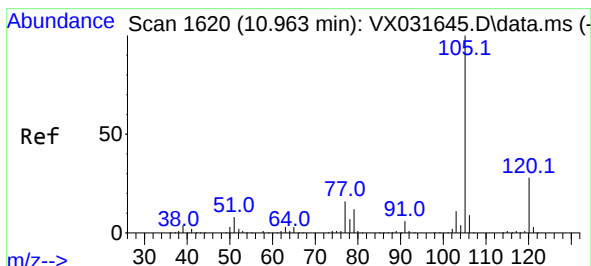
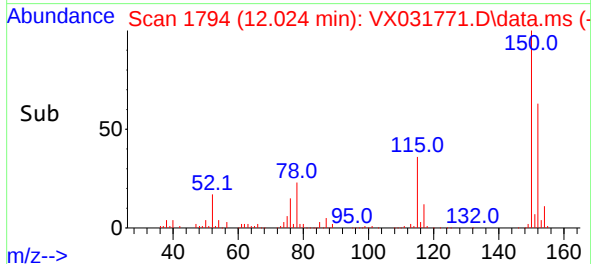
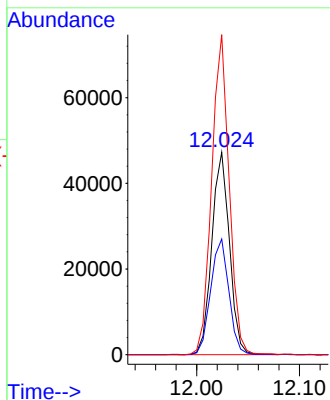
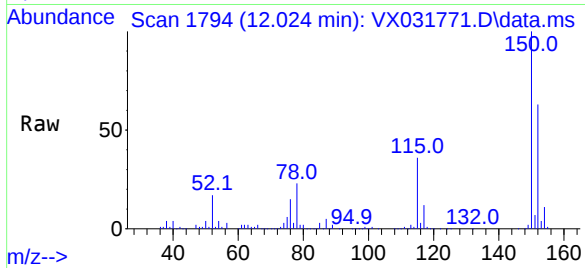




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

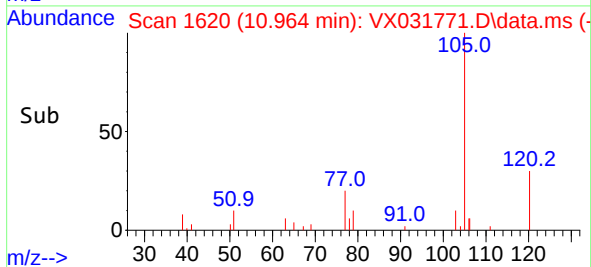
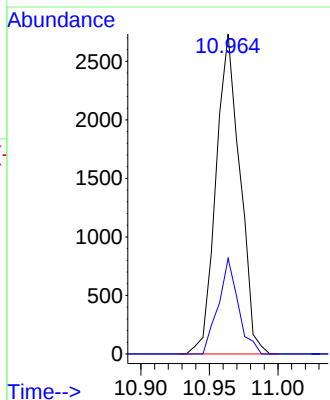
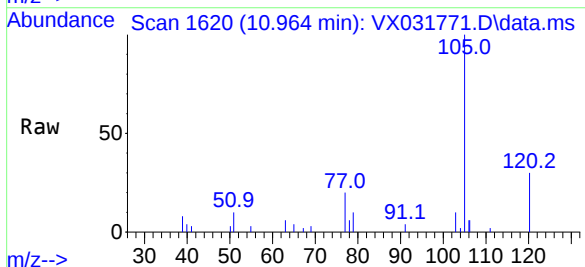
Instrument :
MSVOA_X
ClientSampleId :
MW-2R

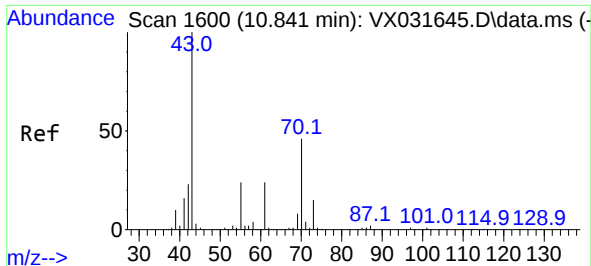
Tgt Ion:152 Resp: 56201
Ion Ratio Lower Upper
152 100
115 59.2 43.4 130.1
150 156.9 0.0 346.8



#73
Isopropylbenzene
Concen: 0.915 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.001 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion:105 Resp: 3325
Ion Ratio Lower Upper
105 100
120 24.8 13.7 41.0

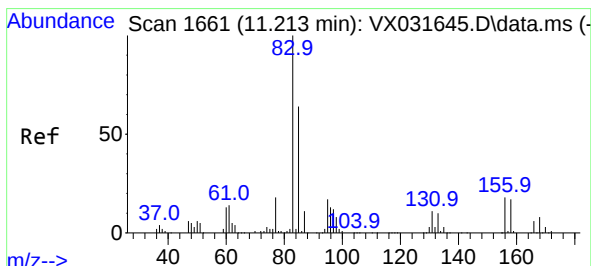
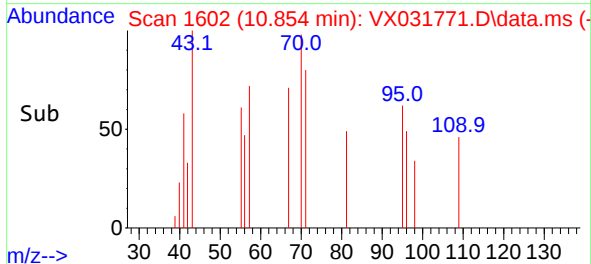
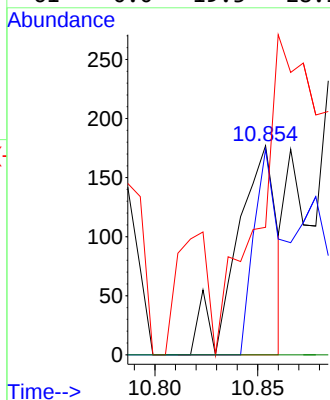
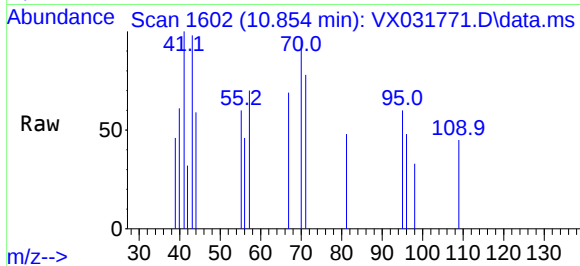




#74
N-amy1 acetate
Concen: 0.204 ug/l
RT: 10.854 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

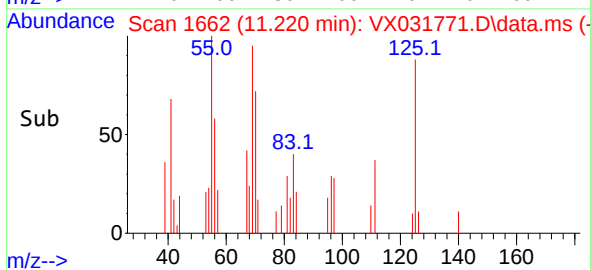
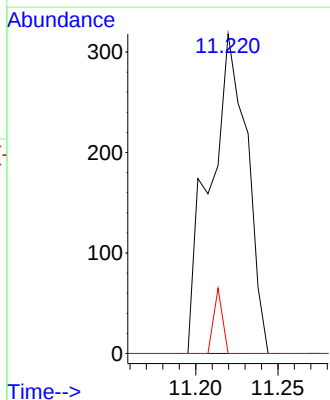
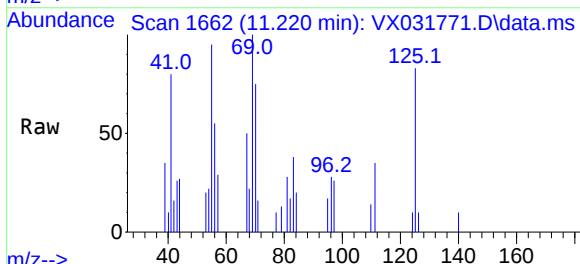
Instrument :
MSVOA_X
ClientSampleId :
MW-2R

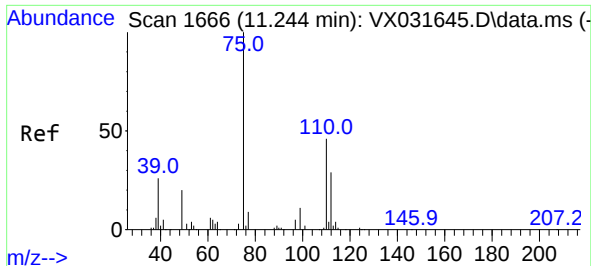
Tgt Ion: 43	Resp:	240	
Ion	Ratio	Lower	Upper
43	100		
70	71.3	33.4	50.2#
55	203.8	18.2	27.2#
61	0.0	19.3	28.9#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.435 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. 0.007 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion: 83	Resp:	502	
Ion Ratio	Lower	Upper	
83 100			
131 0.0	5.1	15.4#	
85 4.8	32.6	97.8#	

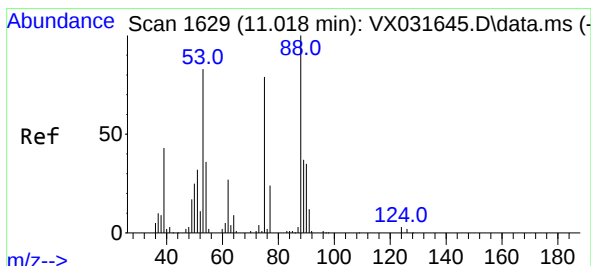
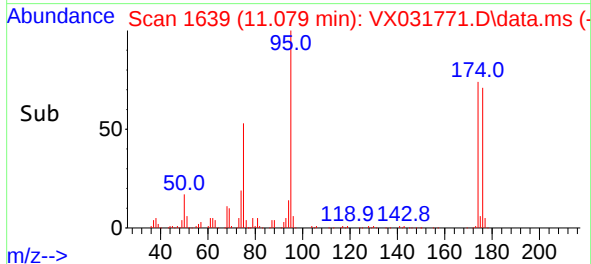
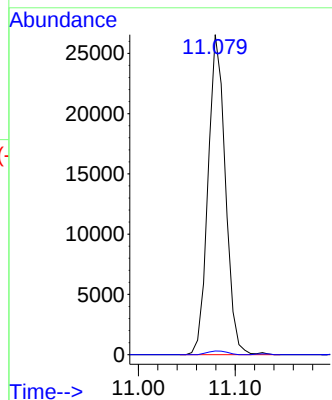
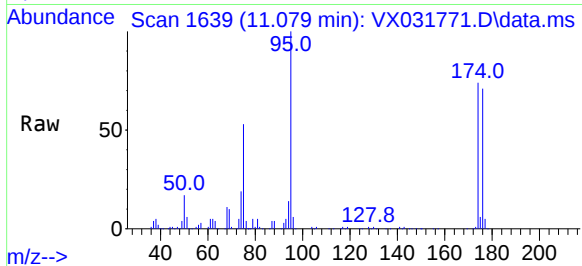




#76
1,2,3-Trichloropropane
Concen: 32.483 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

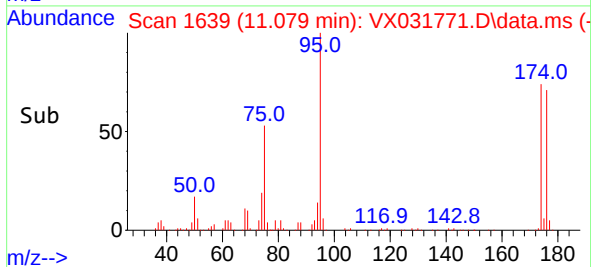
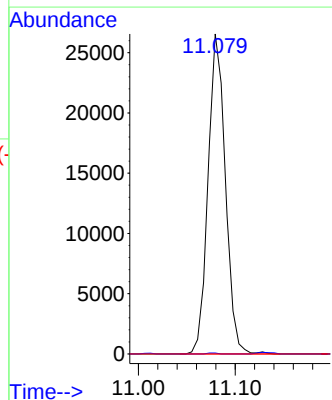
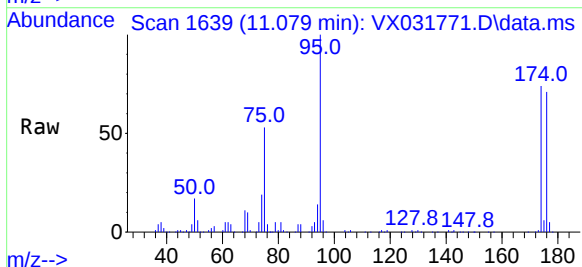
Instrument :
MSVOA_X
ClientSampleId :
MW-2R

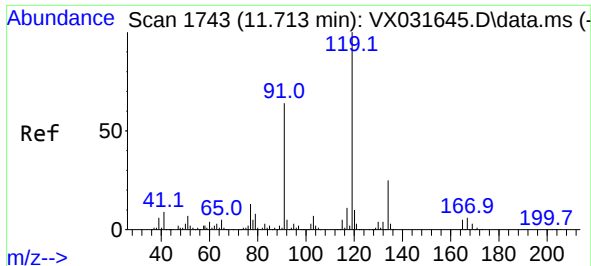
Tgt Ion: 75 Resp: 33096
Ion Ratio Lower Upper
75 100
77 1.3 20.3 60.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 106.815 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion: 75 Resp: 33096
Ion Ratio Lower Upper
75 100
53 0.2 77.6 116.4#
89 0.0 37.4 56.0#

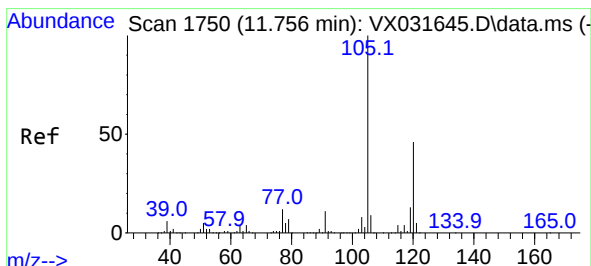
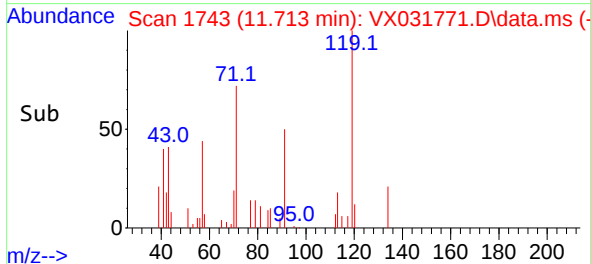
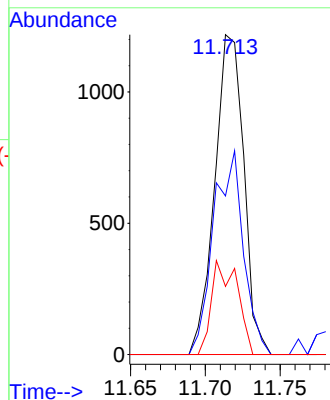
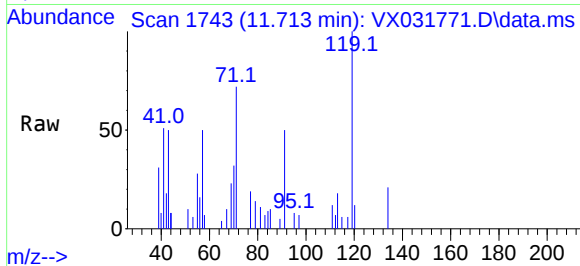




#83
tert-Butylbenzene
Concen: 0.555 ug/l
RT: 11.713 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

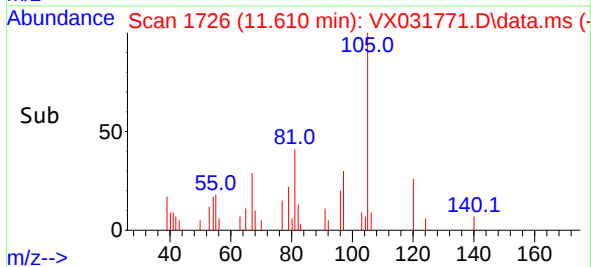
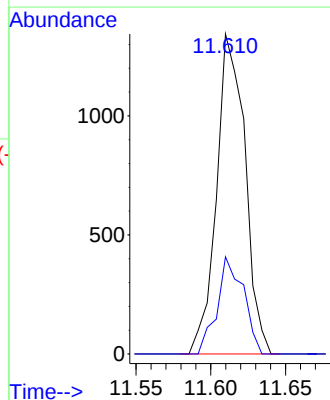
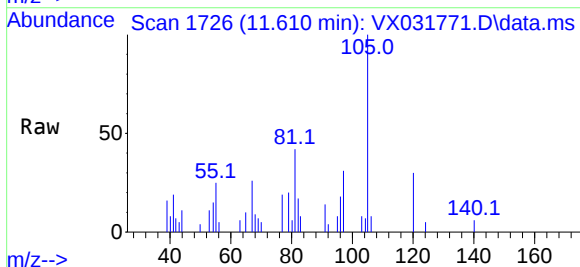
Instrument :
MSVOA_X
ClientSampleId :
MW-2R

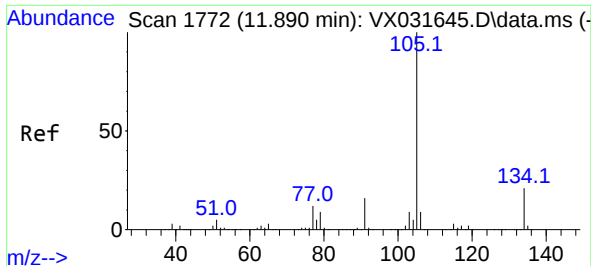
Tgt Ion:	119	Resp:	1650
Ion	Ratio	Lower	Upper
119	100		
91	65.6	29.2	87.6
134	25.9	11.6	34.8



#84
1,2,4-Trimethylbenzene
Concen: 0.584 ug/l
RT: 11.610 min Scan# 1726
Delta R.T. -0.146 min
Lab File: VX031771.D
Acq: 29 Sep 2022 14:23

Tgt Ion:	105	Resp:	1781
Ion	Ratio	Lower	Upper
105	100		
120	28.0	22.6	67.8

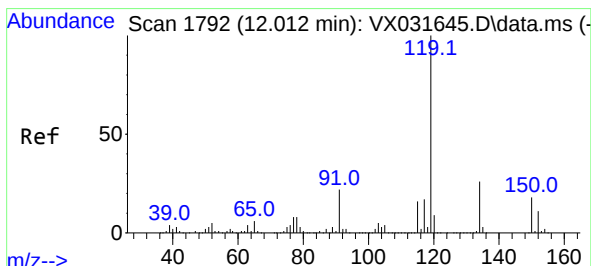
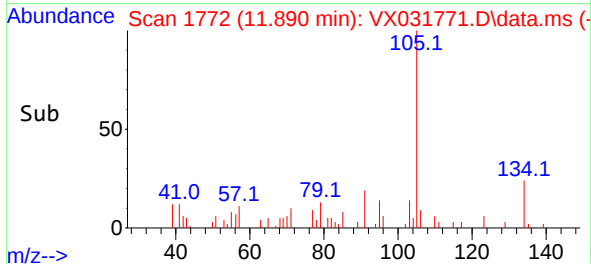
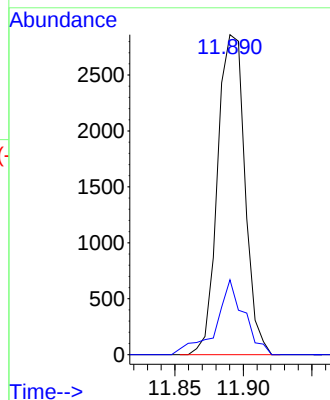
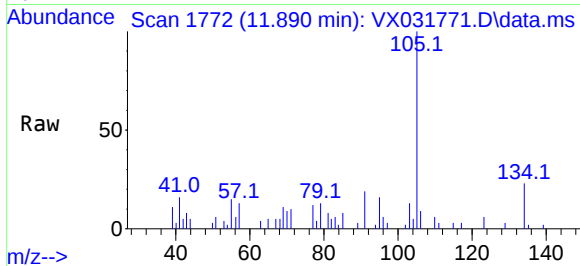




#85
 sec-Butylbenzene
 Concen: 1.049 ug/l
 RT: 11.890 min Scan# 1189
 Delta R.T. 0.000 min
 Lab File: VX031771.D
 Acq: 29 Sep 2022 14:23

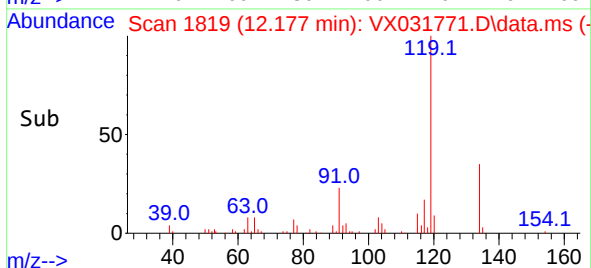
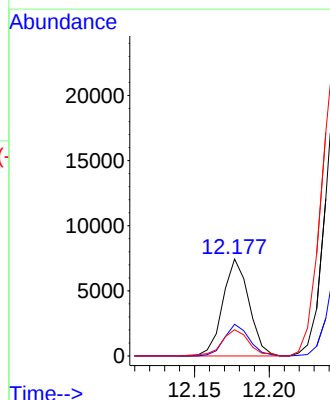
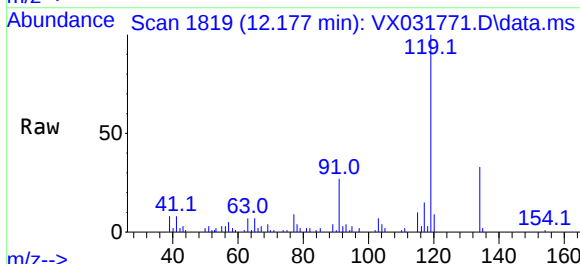
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2R

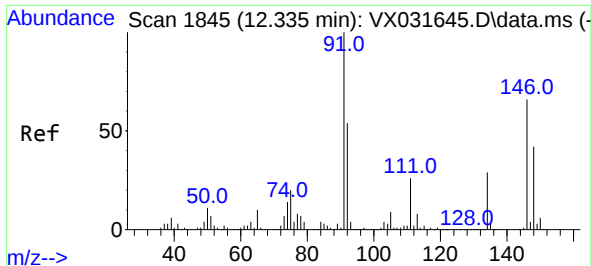
Tgt Ion:105 Resp: 3959
 Ion Ratio Lower Upper
 105 100
 134 24.1 10.4 31.1



#86
 p-Isopropyltoluene
 Concen: 2.773 ug/l
 RT: 12.177 min Scan# 1819
 Delta R.T. 0.165 min
 Lab File: VX031771.D
 Acq: 29 Sep 2022 14:23

Tgt Ion:119 Resp: 9029
 Ion Ratio Lower Upper
 119 100
 134 31.1 13.4 40.2
 91 28.4 12.4 37.2





#89

n-Butylbenzene

Concen: 0.877 ug/l

RT: 12.317 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

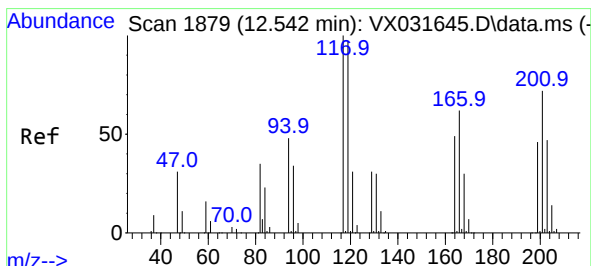
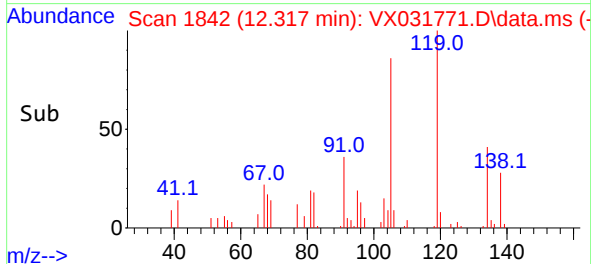
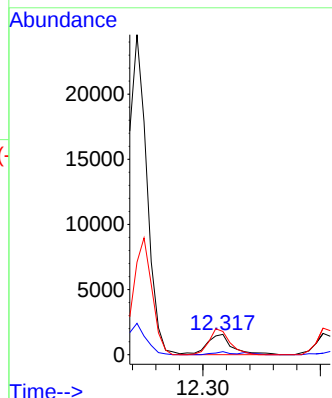
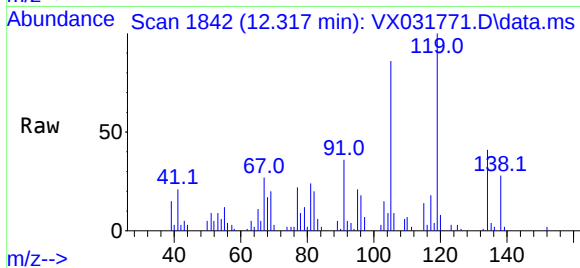
Tgt Ion: 91 Resp: 2333

Ion Ratio Lower Upper

91 100

92 9.4 27.0 81.0#

134 103.7 13.3 39.9#



#90

Hexachloroethane

Concen: 50.825 ug/l

RT: 12.646 min Scan# 1896

Delta R.T. 0.104 min

Lab File: VX031771.D

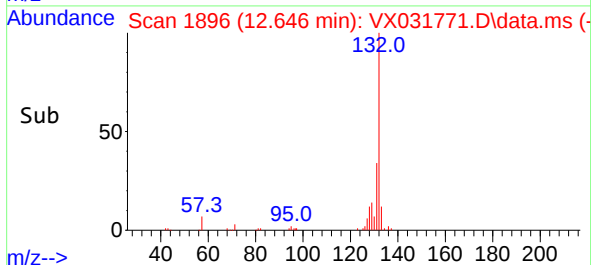
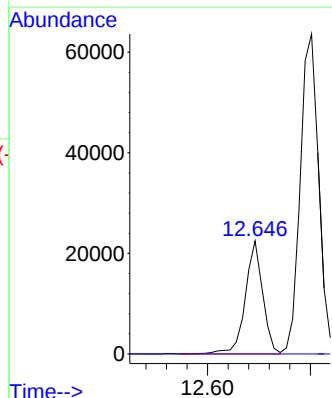
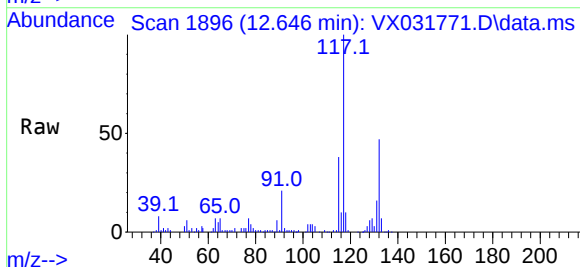
Acq: 29 Sep 2022 14:23

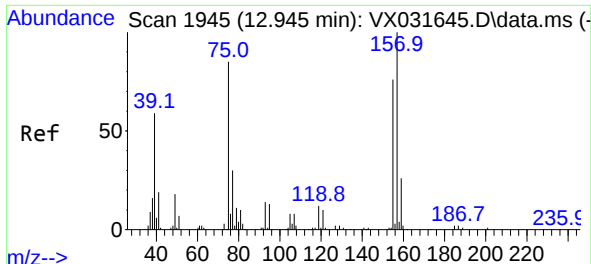
Tgt Ion: 117 Resp: 26537

Ion Ratio Lower Upper

117 100

201 0.0 34.8 104.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.175 ug/l

RT: 13.030 min Scan# 1945

Delta R.T. 0.085 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

Instrument :

MSVOA_X

ClientSampleId :

MW-2R

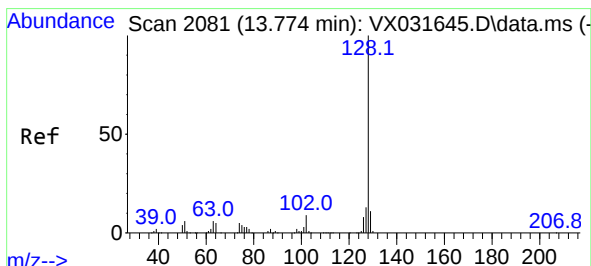
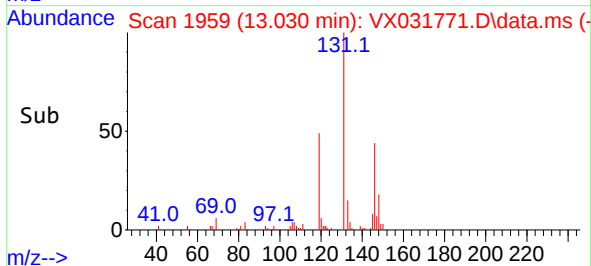
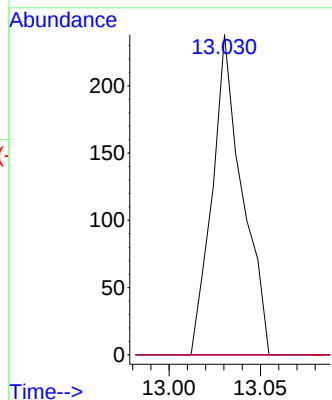
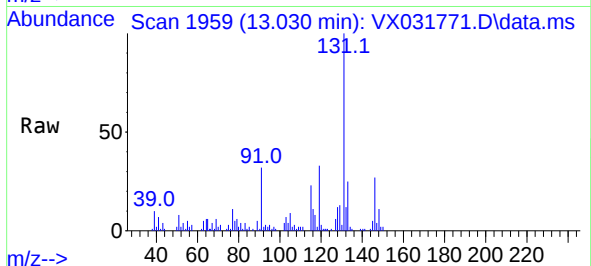
Tgt Ion: 75 Resp: 272

Ion Ratio Lower Upper

75 100

155 0.0 40.3 120.8#

157 0.0 51.5 154.5#



#95

Naphthalene

Concen: 0.410 ug/l

RT: 13.744 min Scan# 2076

Delta R.T. -0.030 min

Lab File: VX031771.D

Acq: 29 Sep 2022 14:23

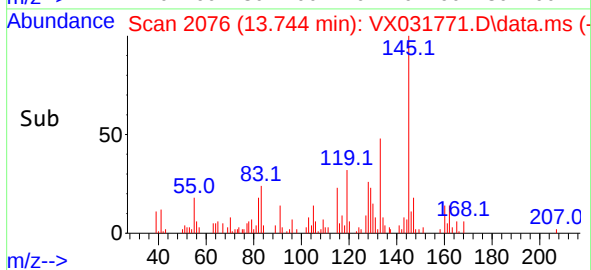
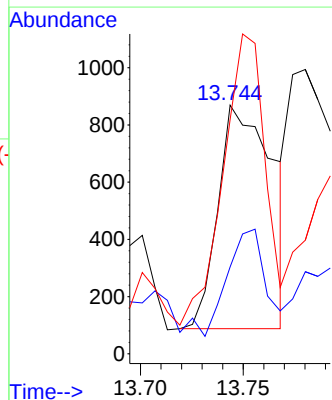
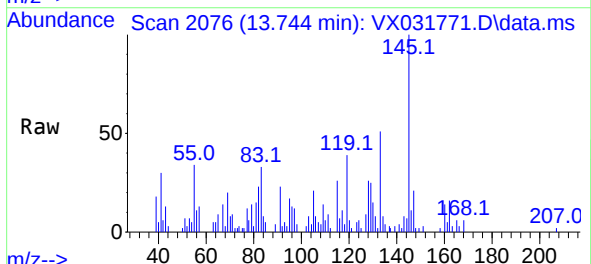
Tgt Ion: 128 Resp: 1437

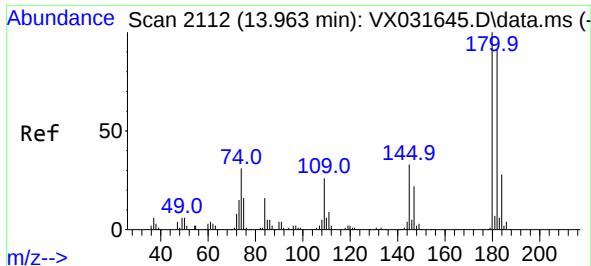
Ion Ratio Lower Upper

128 100

127 42.9 10.4 15.6#

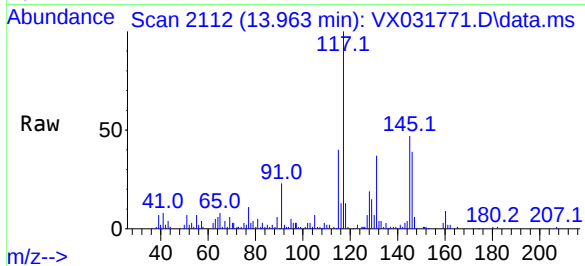
129 100.3 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.221 ug/l
 RT: 13.963 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VX031771.D
 Acq: 29 Sep 2022 14:23

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2R



Tgt Ion:180 Resp: 238
 Ion Ratio Lower Upper
 180 100
 182 29.4 47.9 143.8#
 145 5456.7 17.6 52.8#

