

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084061.D
 Acq On : 20 Sep 2024 11:08
 Operator : JC\MD
 Sample : VN0920WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBL01

Quant Time: Sep 20 23:23:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

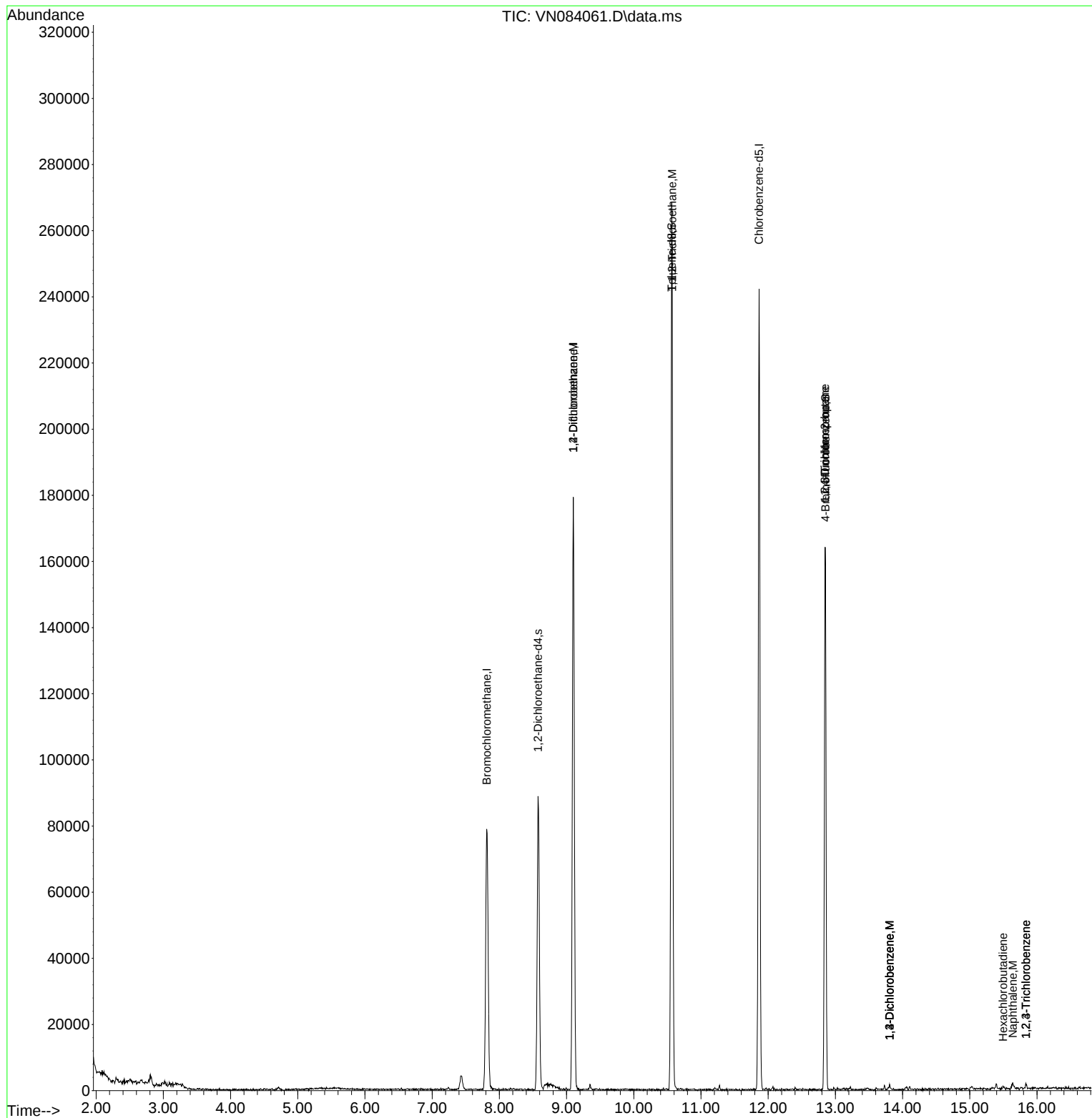
Internal Standards						
1) Bromochloromethane	7.812	128	26514	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	9.100	114	145231	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	128164	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	75601	31.194	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.967%
60) 4-Bromofluorobenzene	12.853	95	56304	25.490	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.967%
63) Toluene-d8	10.565	98	180916	30.486	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.633%
Target Compounds						
						Qvalue
36) 1,2-Dichloroethane	9.100	62	6123	2.356	ug/l	# 72
50) 1,1,2-Trichloroethane	10.571	97	5583	3.607	ug/l	# 1
72) 1,2,3-Trichloropropane	12.847	75	31589	16.758	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	31589	39.646	ug/l	# 12
83) 1,3-Dichlorobenzene	13.806	146	770	0.221	ug/l	68
84) 1,4-Dichlorobenzene	13.806	146	770	0.221	ug/l	69
87) 1,2-Dichlorobenzene	13.806	146	770	0.228	ug/l	69
89) 1,2,4-Trichlorobenzene	15.835	180	785	0.424	ug/l	# 80
90) Hexachlorobutadiene	15.494	225	177	0.231	ug/l	# 56
91) Naphthalene	15.641	128	2627	0.434	ug/l	# 89
92) 1,2,3-Trichlorobenzene	15.835	180	785	0.424	ug/l	80

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

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Quant Time: Sep 20 23:23:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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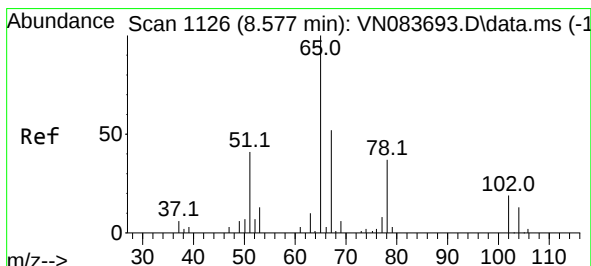
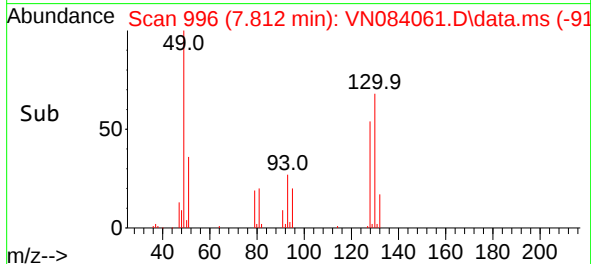
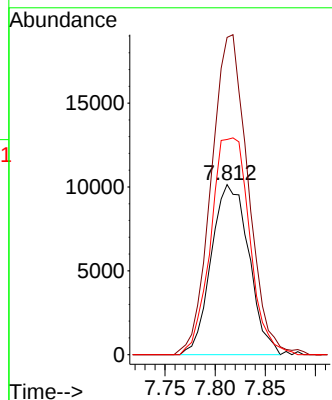
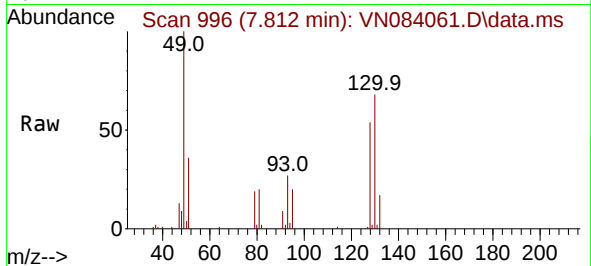




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

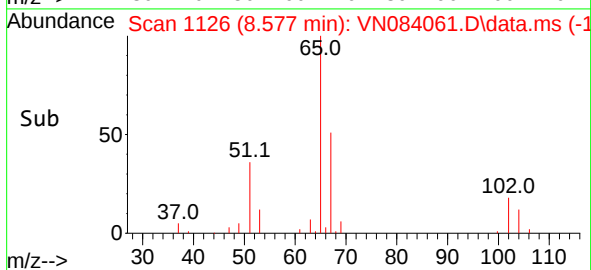
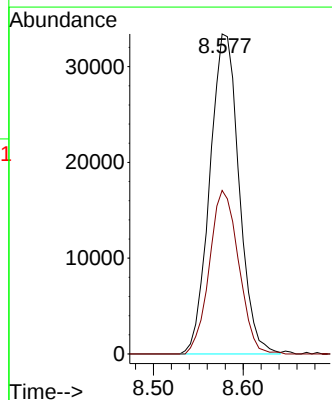
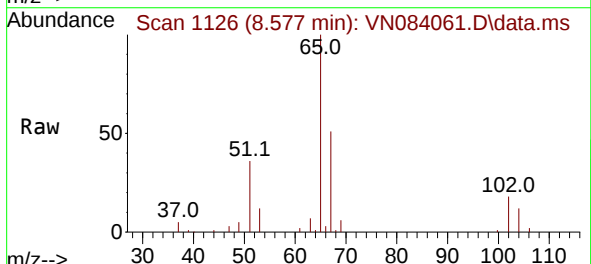
Instrument :
MSVOA_N
ClientSampleId :
VN0920WBL01

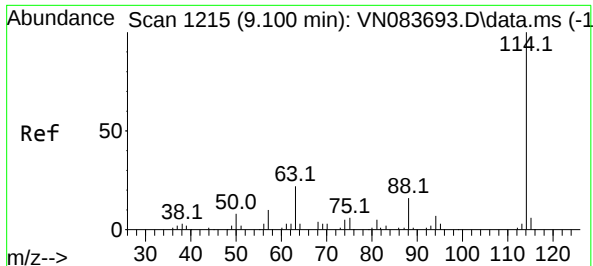
Tgt Ion:128 Resp: 26514
Ion Ratio Lower Upper
128 100
49 182.7 0.0 403.7
130 0.0 0.0 323.3



#27
1,2-Dichloroethane-d4
Concen: 31.194 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

Tgt Ion: 65 Resp: 75601
Ion Ratio Lower Upper
65 100
67 51.0 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084061.D

Acq: 20 Sep 2024 11:08

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBL01

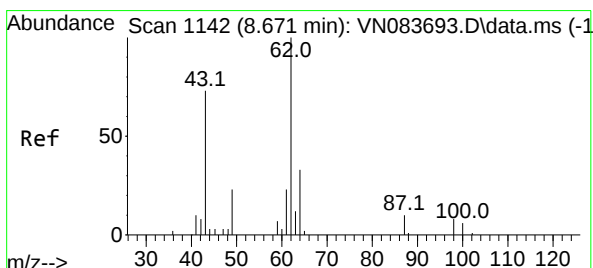
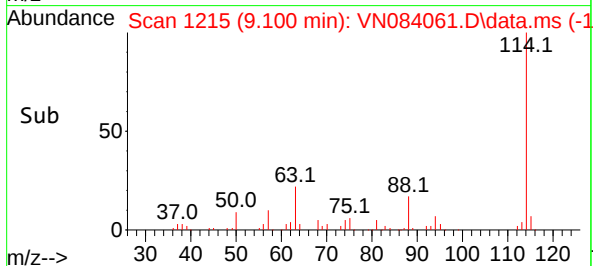
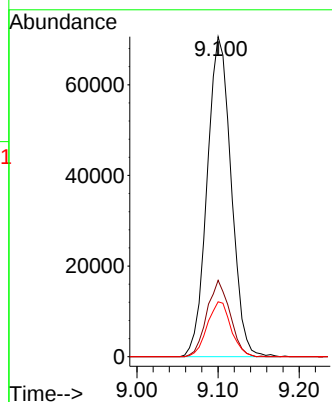
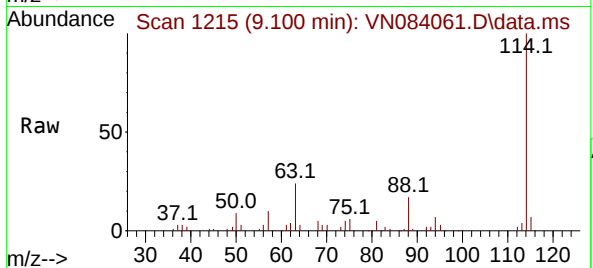
Tgt Ion:114 Resp: 145231

Ion Ratio Lower Upper

114 100

63 22.9 15.9 23.9

88 16.9 12.7 19.1



#36

1,2-Dichloroethane

Concen: 2.356 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.429 min

Lab File: VN084061.D

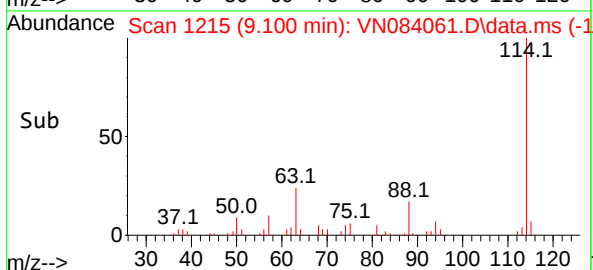
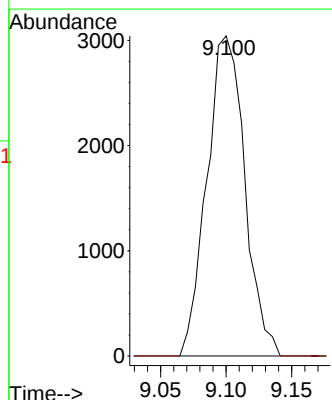
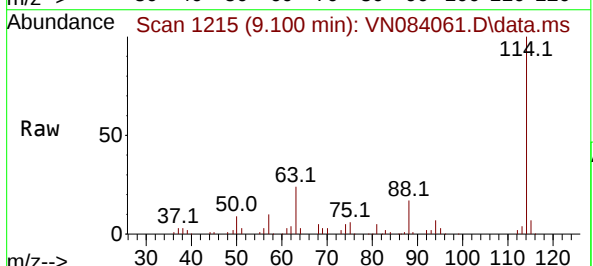
Acq: 20 Sep 2024 11:08

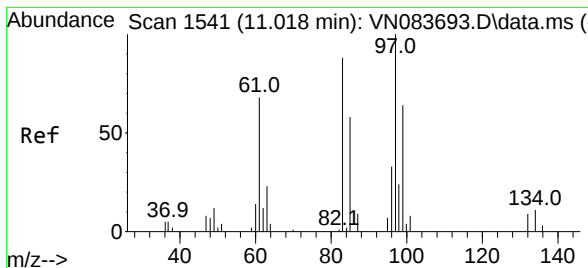
Tgt Ion: 62 Resp: 6123

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#

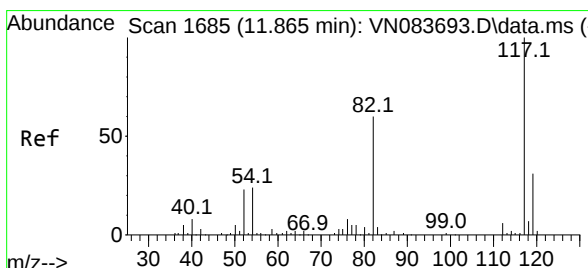
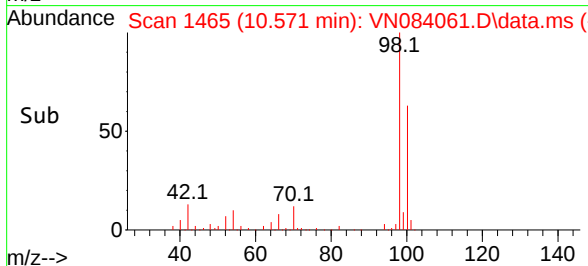
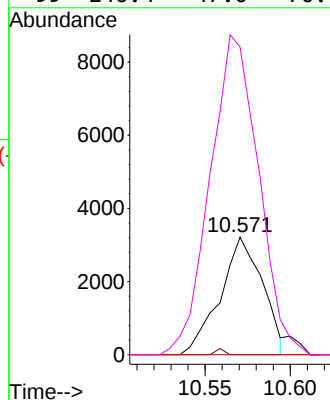
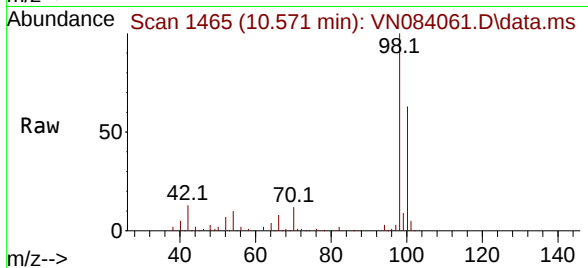




#50
1,1,2-Trichloroethane
Concen: 3.607 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

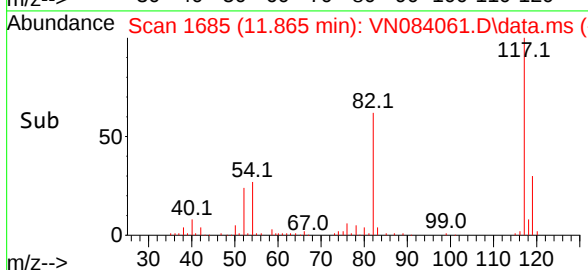
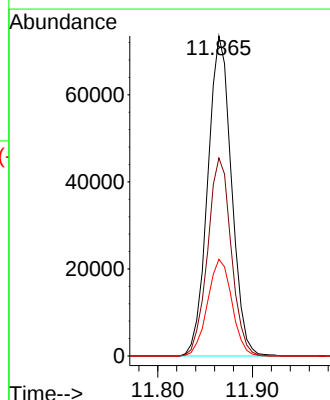
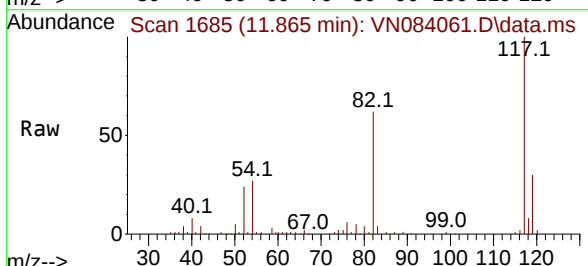
Instrument :
MSVOA_N
ClientSampleId :
VN0920WBL01

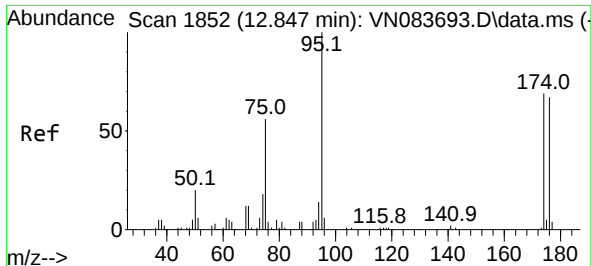
Tgt Ion: 97	Resp: 5583
Ion Ratio	Lower Upper
97 100	
83 0.0	68.1 102.1#
85 0.0	41.8 62.6#
99 246.4	47.0 70.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

Tgt Ion:117	Resp:	128164	
Ion	Ratio	Lower	Upper
117	100		
82	61.5	46.6	69.8
119	31.0	25.4	38.2

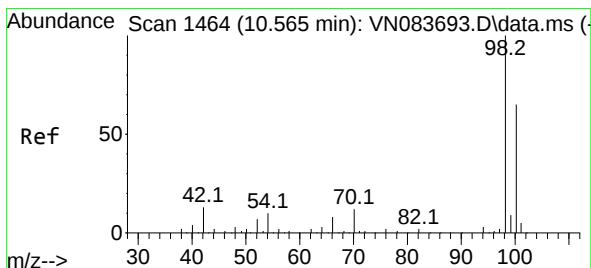
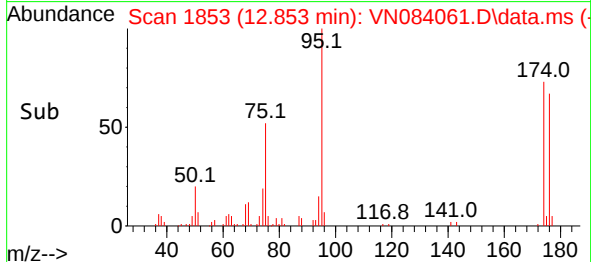
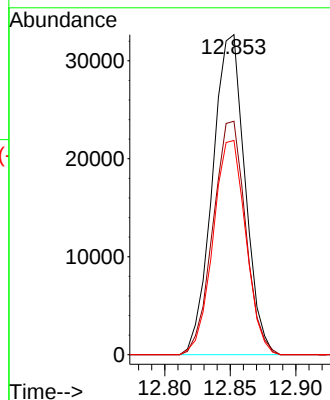
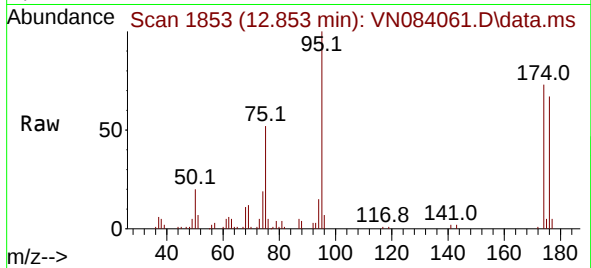




#60
4-Bromofluorobenzene
Concen: 25.490 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

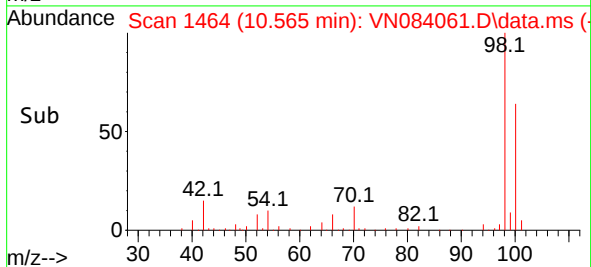
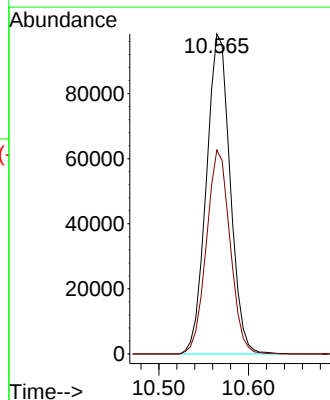
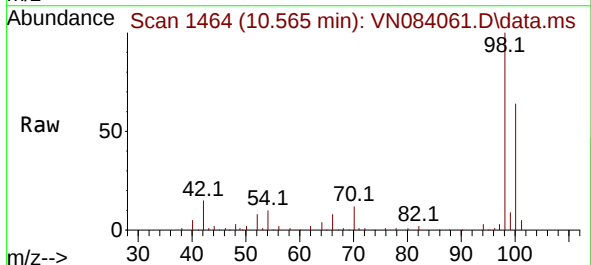
Instrument :
MSVOA_N
ClientSampleId :
VN0920WBL01

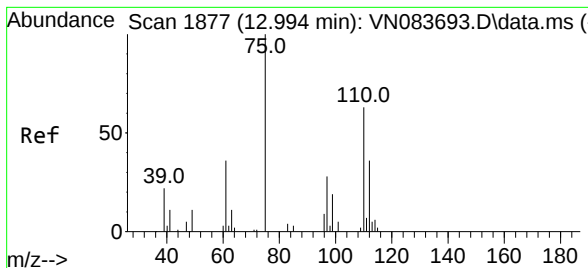
Tgt Ion: 95 Resp: 56304
Ion Ratio Lower Upper
95 100
174 73.0 60.5 90.7
176 67.3 57.8 86.6



#63
Toluene-d8
Concen: 30.486 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

Tgt Ion: 98 Resp: 180916
Ion Ratio Lower Upper
98 100
100 63.5 52.7 79.1





#72

1,2,3-Trichloropropane

Concen: 16.758 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN084061.D

Acq: 20 Sep 2024 11:08

Instrument :

MSVOA_N

ClientSampleId :

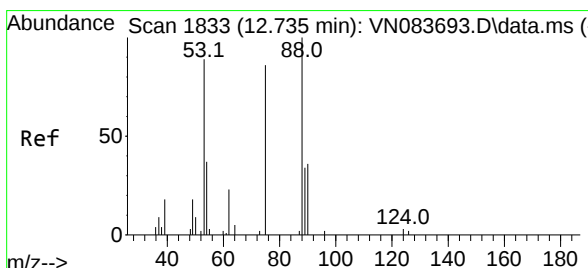
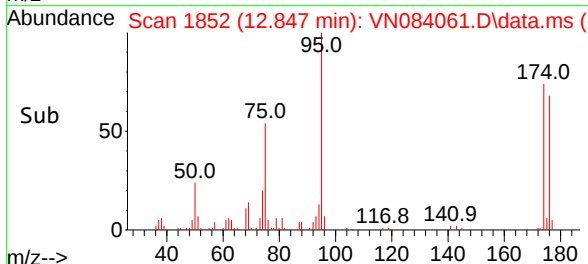
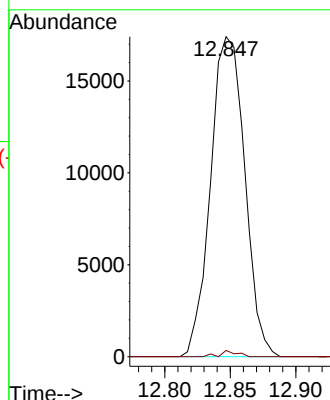
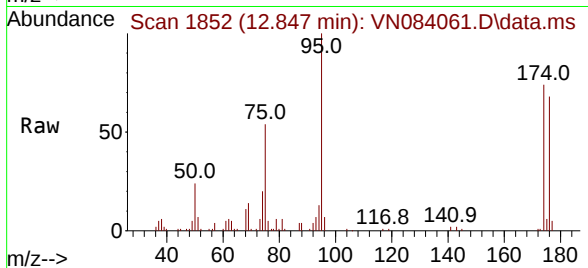
VN0920WBL01

Tgt Ion: 75 Resp: 31589

Ion Ratio Lower Upper

75 100

77 0.8 0.0 367.6



#77

t-1,4-Dichloro-2-butene

Concen: 39.646 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN084061.D

Acq: 20 Sep 2024 11:08

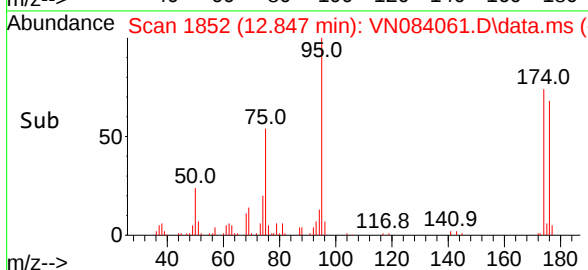
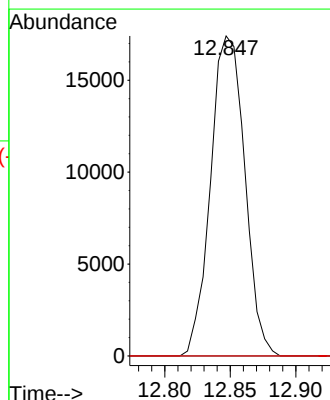
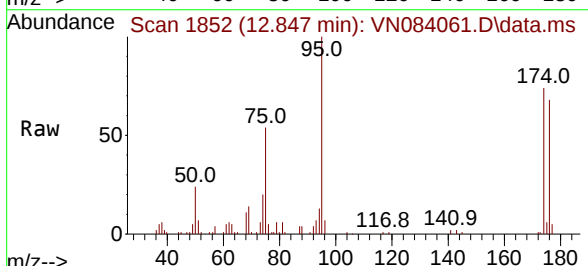
Tgt Ion: 75 Resp: 31589

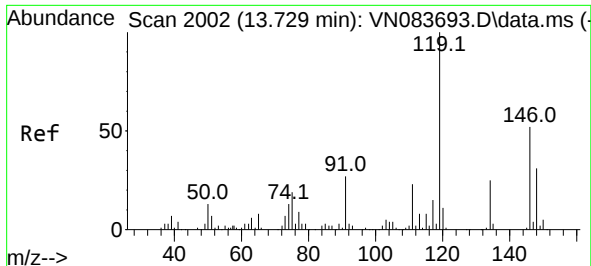
Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.7#

89 0.0 25.9 77.7#





#83

1,3-Dichlorobenzene

Concen: 0.221 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.076 min

Lab File: VN084061.D

Acq: 20 Sep 2024 11:08

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBL01

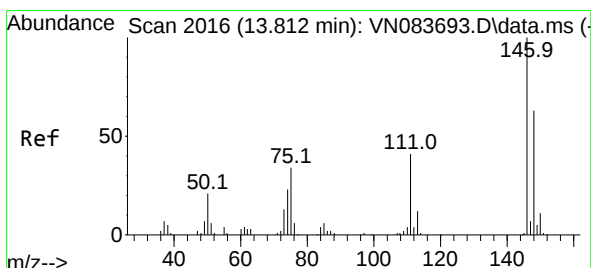
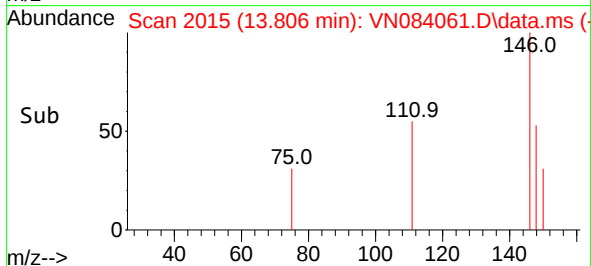
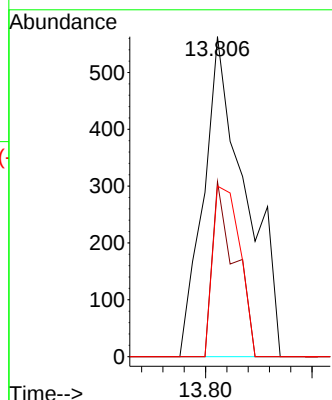
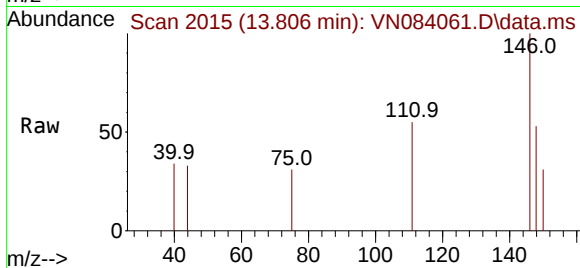
Tgt Ion:146 Resp: 770

Ion Ratio Lower Upper

146 100

111 29.5 22.4 67.0

148 34.7 32.1 96.5



#84

1,4-Dichlorobenzene

Concen: 0.221 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN084061.D

Acq: 20 Sep 2024 11:08

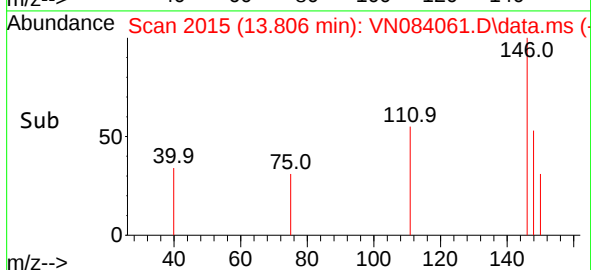
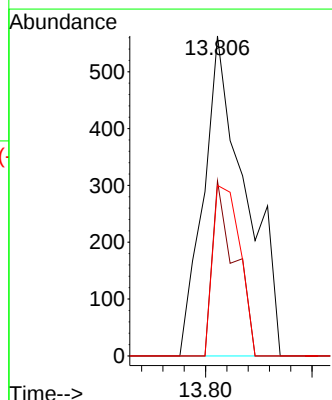
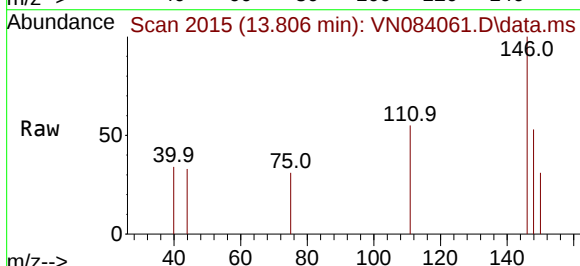
Tgt Ion:146 Resp: 770

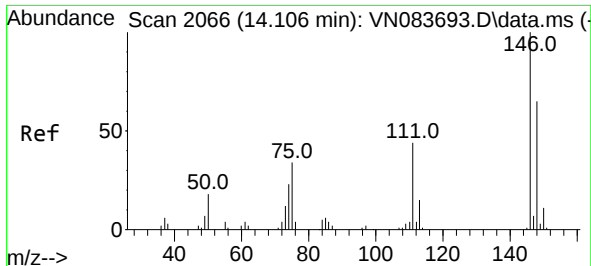
Ion Ratio Lower Upper

146 100

111 29.5 21.3 63.9

148 34.7 31.9 95.5





#87

1,2-Dichlorobenzene

Concen: 0.228 ug/l

RT: 13.806 min Scan# 2066

Delta R.T. -0.300 min

Lab File: VN084061.D

Acq: 20 Sep 2024 11:08

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBL01

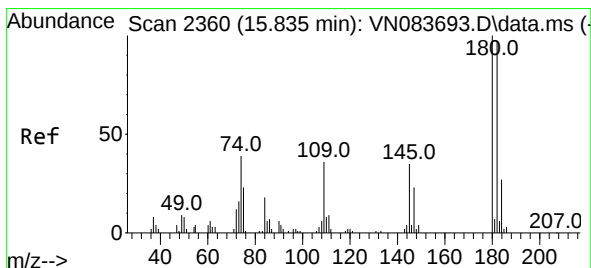
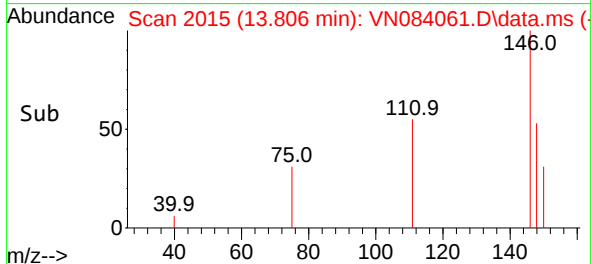
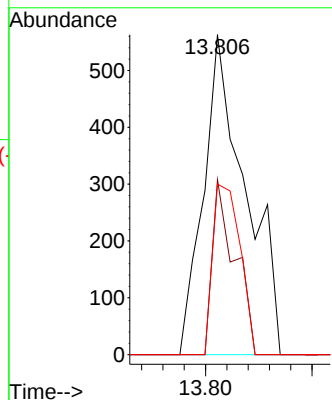
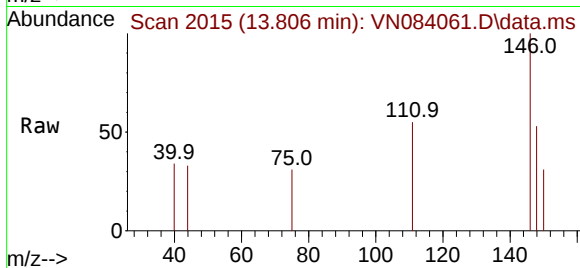
Tgt Ion:146 Resp: 770

Ion Ratio Lower Upper

146 100

111 29.5 22.6 67.8

148 34.7 31.3 93.8



#89

1,2,4-Trichlorobenzene

Concen: 0.424 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN084061.D

Acq: 20 Sep 2024 11:08

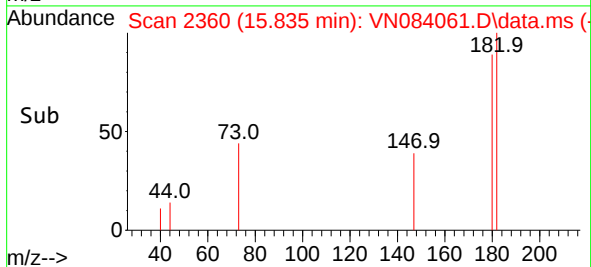
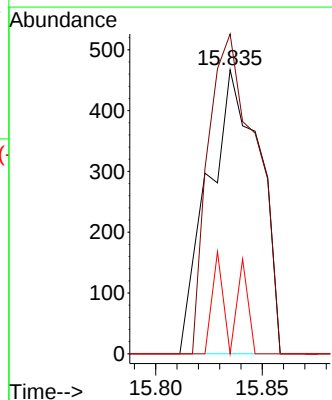
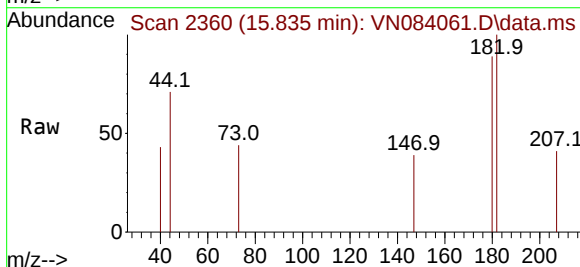
Tgt Ion:180 Resp: 785

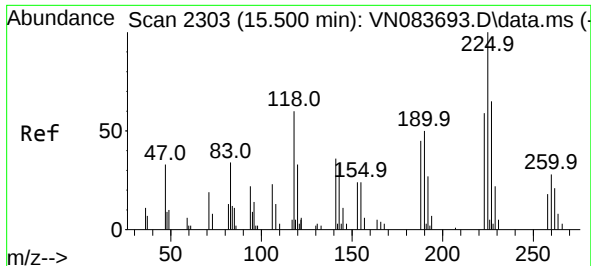
Ion Ratio Lower Upper

180 100

182 104.8 76.4 114.6

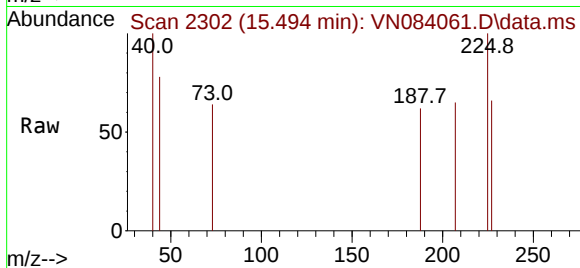
145 7.5 28.4 42.6#



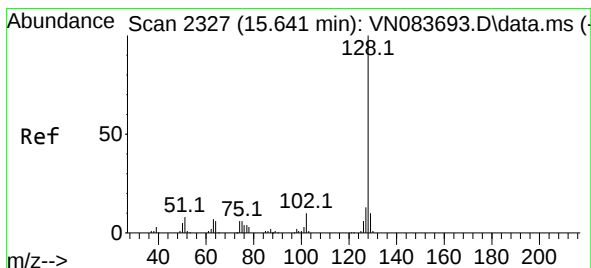
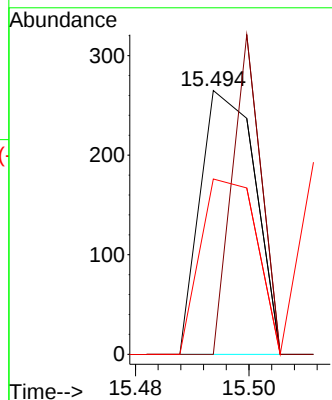
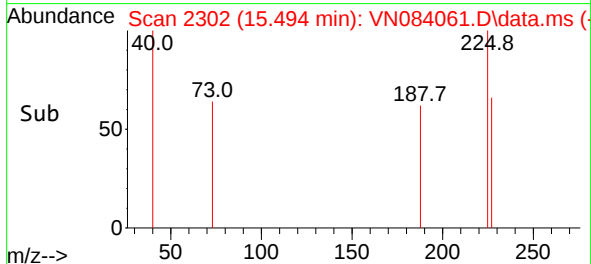


#90
Hexachlorobutadiene
Concen: 0.231 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

Instrument :
MSVOA_N
ClientSampleId :
VN0920WBL01

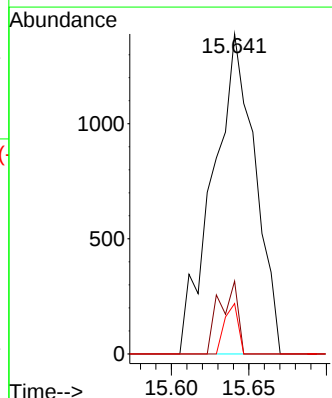
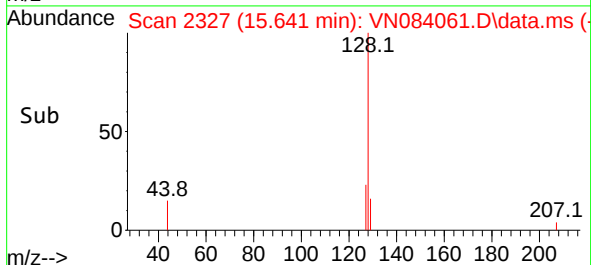
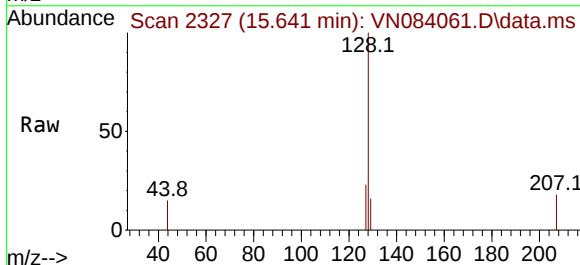


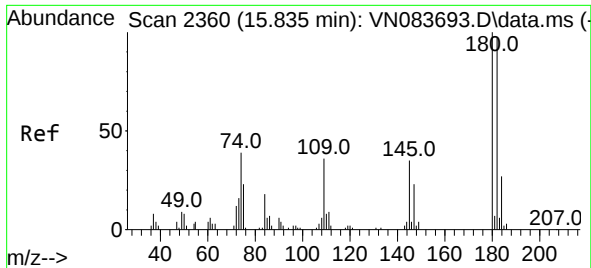
Tgt Ion:225 Resp: 177
Ion Ratio Lower Upper
225 100
223 0.0 0.0 126.6
227 68.4 0.0 126.6



#91
Naphthalene
Concen: 0.434 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN084061.D
Acq: 20 Sep 2024 11:08

Tgt Ion:128 Resp: 2627
Ion Ratio Lower Upper
128 100
127 10.0 10.6 16.0#
129 5.1 8.6 13.0#





#92

1,2,3-Trichlorobenzene

Concen: 0.424 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN084061.D

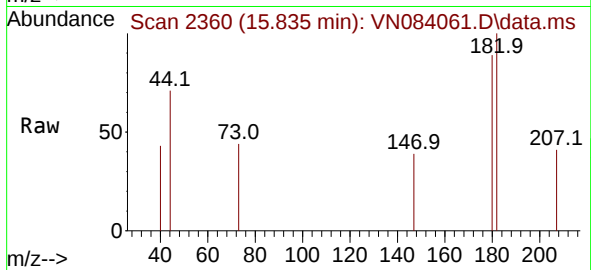
Acq: 20 Sep 2024 11:08

Instrument :

MSVOA_N

ClientSampleId :

VN0920WBL01



Tgt Ion:180 Resp: 785

Ion Ratio Lower Upper

180 100

182 104.8 0.0 191.0

145 7.5 0.0 71.0

