

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078929.D
 Acq On : 17 Aug 2023 16:28
 Operator : JC\MD
 Sample : VN0817WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:32:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

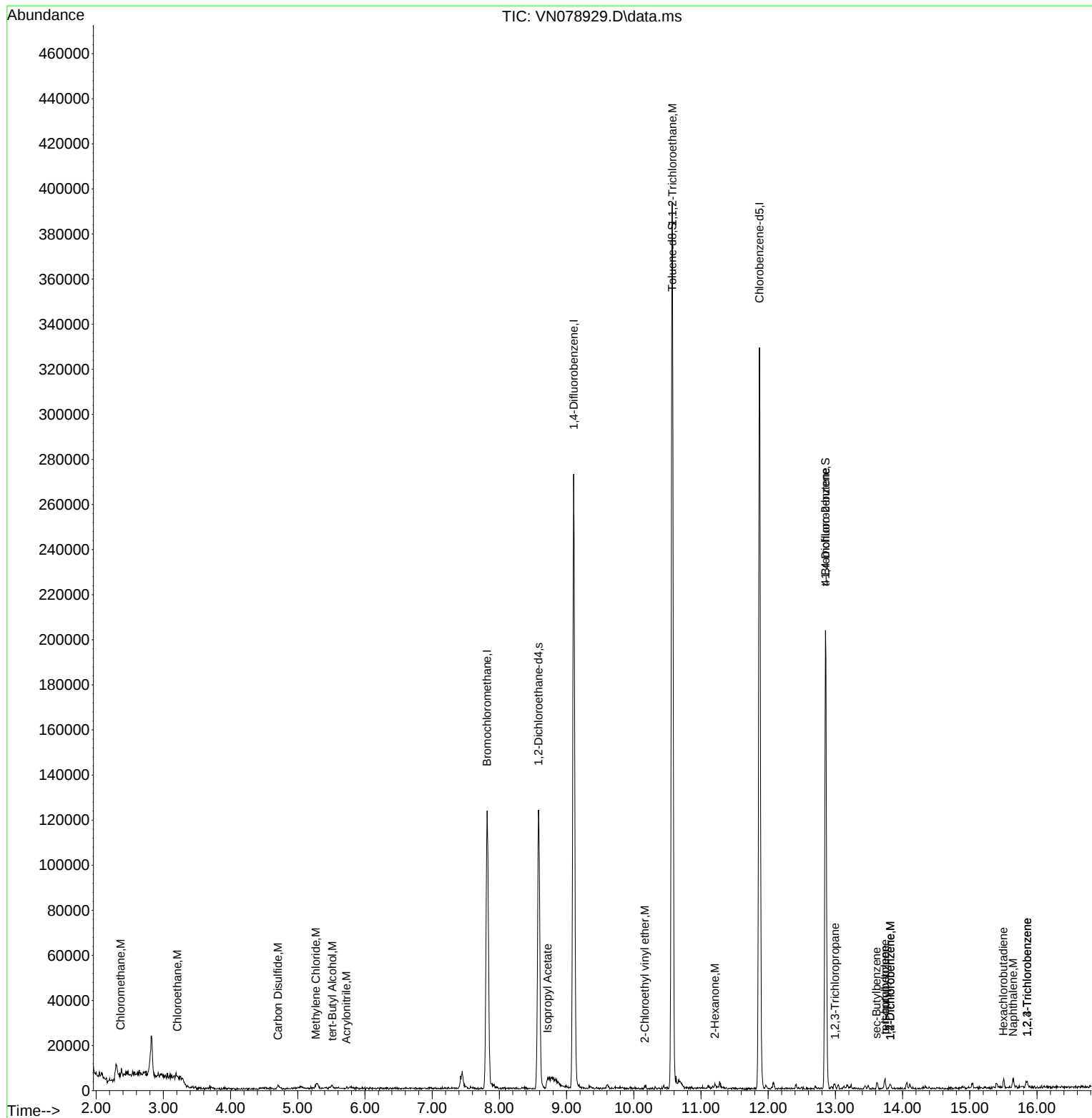
Internal Standards						
1) Bromochloromethane	7.818	128	41187	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	220724	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	189339	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	98727	29.588	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.633%
60) 4-Bromofluorobenzene	12.853	95	67271	24.357	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.200%
63) Toluene-d8	10.571	98	267169	30.216	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.733%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1237	0.397	ug/l #	70
6) Chloroethane	3.206	64	886	0.442	ug/l	89
14) Acrylonitrile	5.724	53	327	0.243	ug/l #	77
16) Carbon Disulfide	4.706	76	3272	0.522	ug/l #	76
18) Methylene Chloride	5.271	84	876	0.336	ug/l #	70
23) tert-Butyl Alcohol	5.512	59	577	1.151	ug/l #	100
44) Isopropyl Acetate	8.718	43	1740	0.259	ug/l #	52
50) 1,1,2-Trichloroethane	10.576	97	9001	3.666	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.165	63	503	0.286	ug/l #	45
59) 2-Hexanone	11.206	43	1190	0.432	ug/l #	84
72) 1,2,3-Trichloropropane	12.994	75	613	0.207	ug/l	99
77) t-1,4-Dichloro-2-butene	12.853	75	37026	33.637	ug/l #	3
79) tert-butylbenzene	13.741	119	1818	0.282	ug/l	51
81) sec-Butylbenzene	13.611	105	2724	0.320	ug/l	86
82) p-Isopropyltoluene	13.741	119	1818	0.262	ug/l	87
84) 1,4-Dichlorobenzene	13.817	146	945	0.243	ug/l	91
87) 1,2-Dichlorobenzene	13.817	146	945	0.233	ug/l	92
89) 1,2,4-Trichlorobenzene	15.853	180	1203	0.752	ug/l #	24
90) Hexachlorobutadiene	15.500	225	579	0.695	ug/l	90
91) Naphthalene	15.647	128	3446	0.746	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.853	180	1203	0.752	ug/l	24

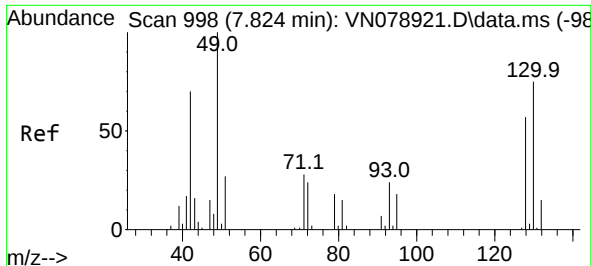
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
Response via : Initial Calibration

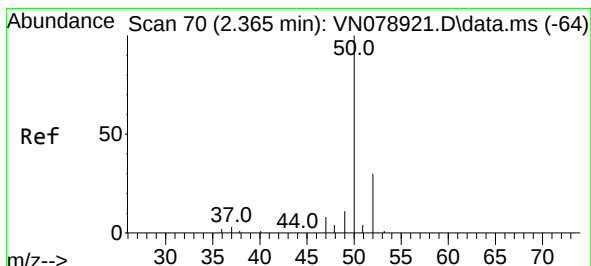
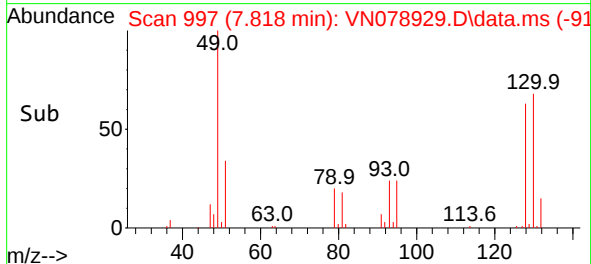
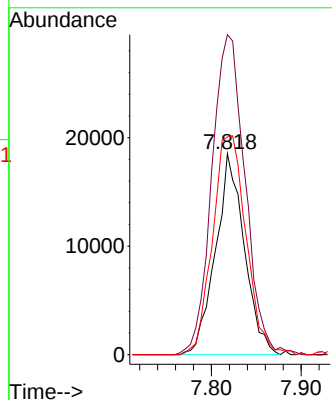
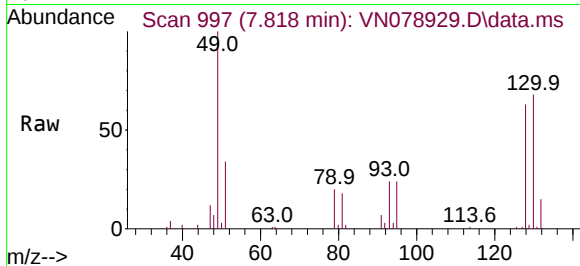




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

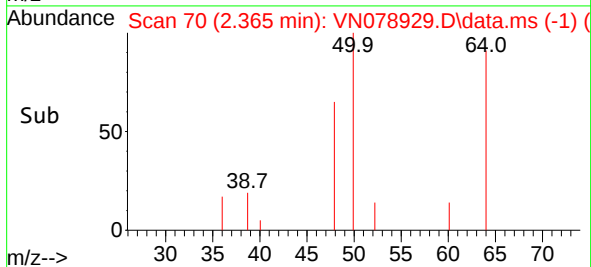
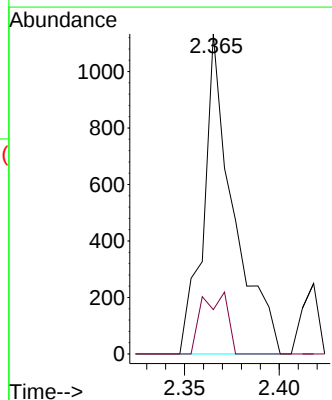
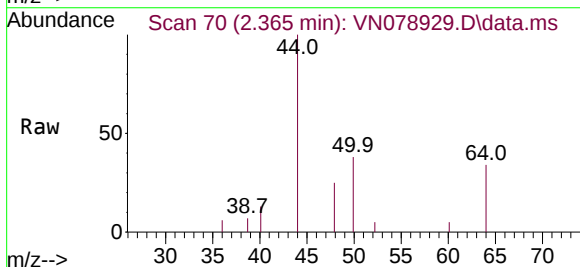
Instrument :
MSVOA_N
ClientSampleId :

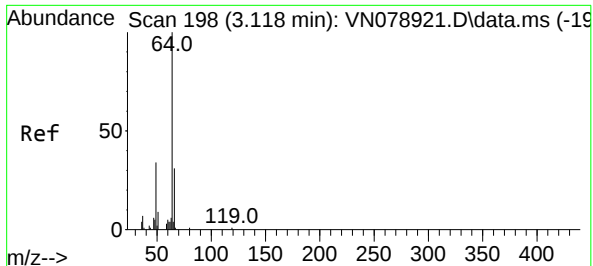
Tgt Ion:128 Resp: 41187
Ion Ratio Lower Upper
128 100
49 182.6 0.0 481.8
130 127.4 0.0 320.5



#3
Chloromethane
Concen: 0.397 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Tgt Ion: 50 Resp: 1237
Ion Ratio Lower Upper
50 100
52 13.9 24.2 36.4#

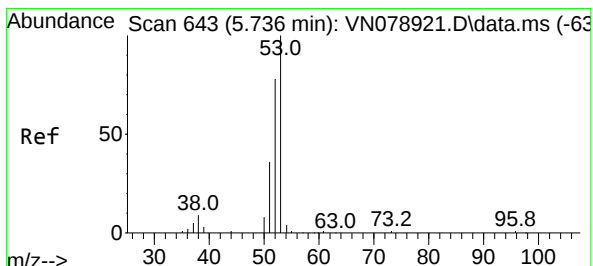
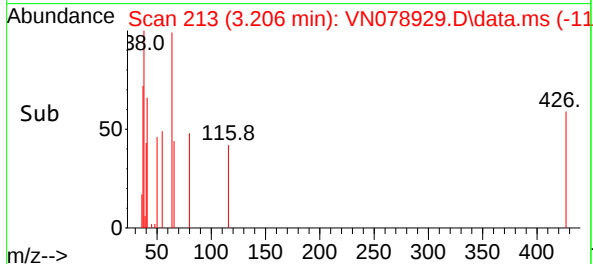
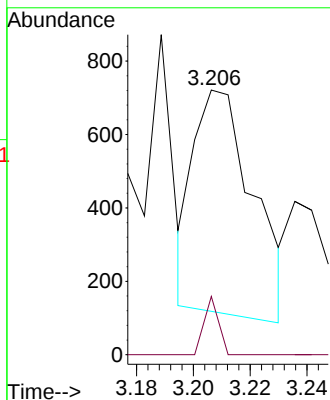
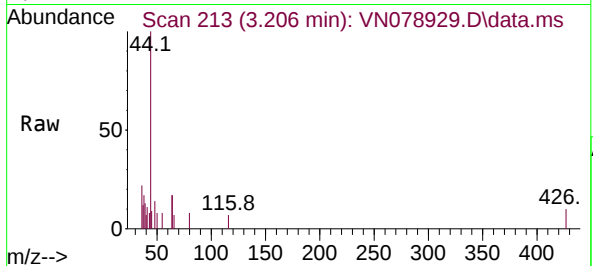




#6
Chloroethane
Concen: 0.442 ug/l
RT: 3.206 min Scan# 21
Delta R.T. 0.088 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

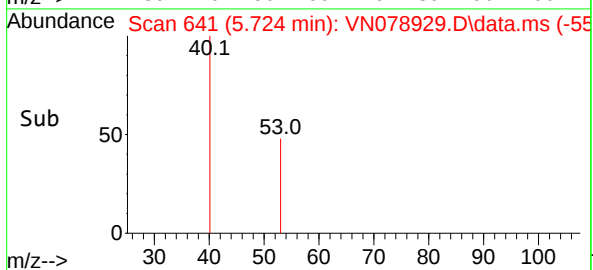
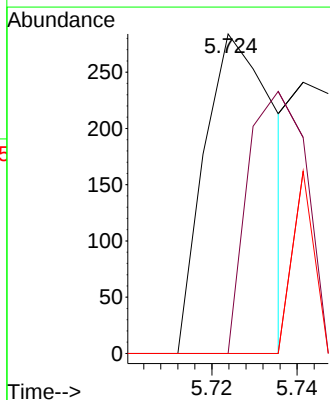
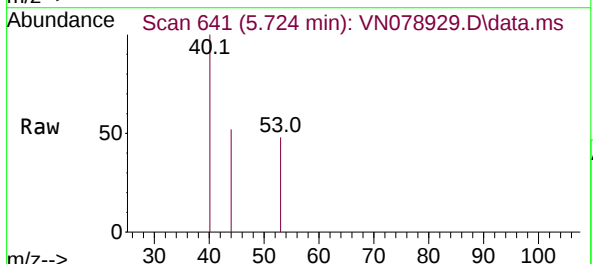
Instrument :
MSVOA_N
ClientSampleId :

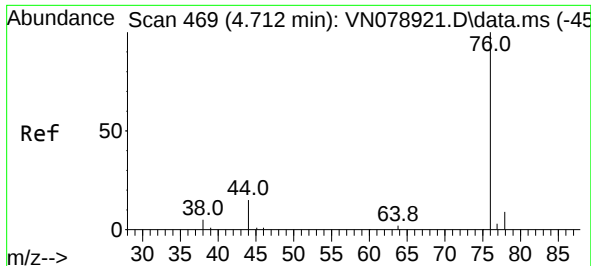
Tgt Ion: 64 Resp: 886
Ion Ratio Lower Upper
64 100
66 37.1 24.9 37.3



#14
Acrylonitrile
Concen: 0.243 ug/l
RT: 5.724 min Scan# 641
Delta R.T. -0.012 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Tgt Ion: 53 Resp: 327
Ion Ratio Lower Upper
53 100
52 67.6 41.9 125.6
51 0.0 10.1 30.1#

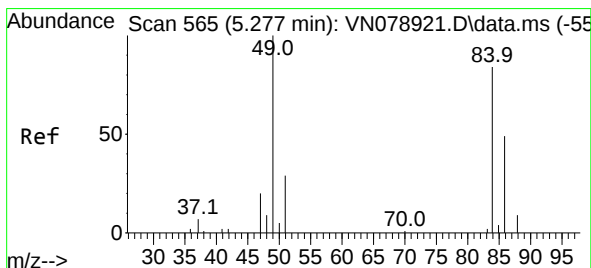
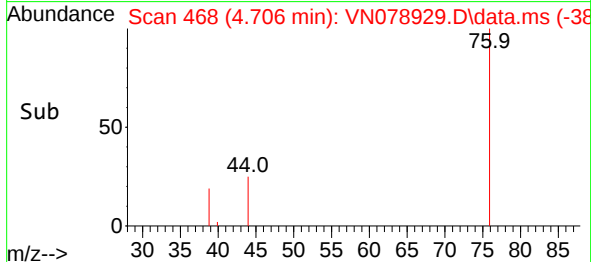
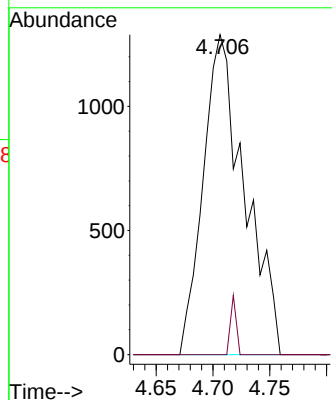
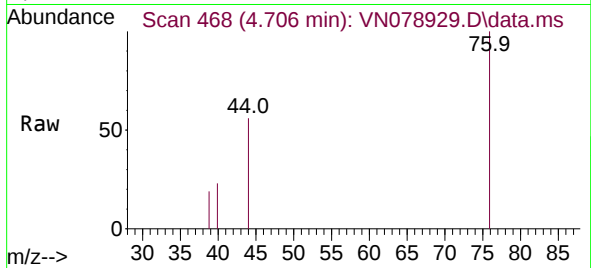




#16
Carbon Disulfide
Concen: 0.522 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

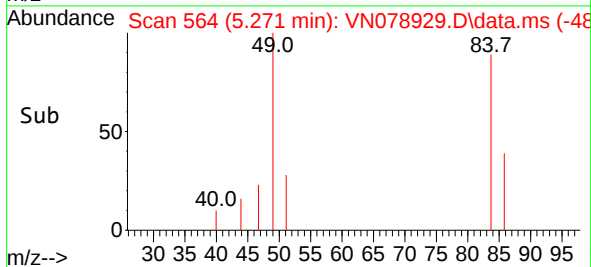
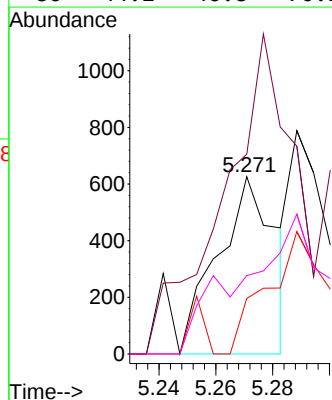
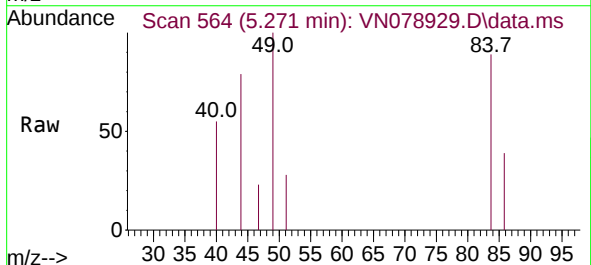
Instrument :
MSVOA_N
ClientSampleId :

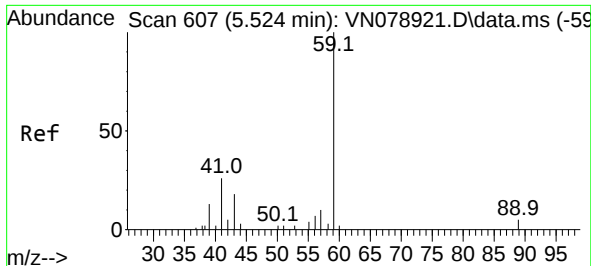
Tgt Ion: 76 Resp: 3272
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methylene Chloride
Concen: 0.336 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

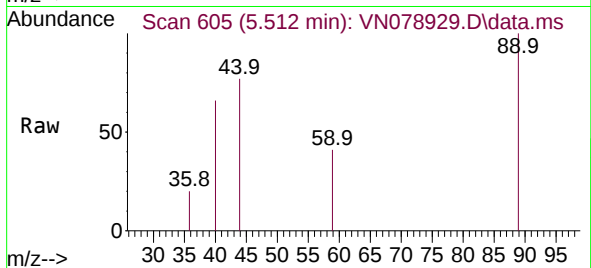
Tgt Ion: 84 Resp: 876
Ion Ratio Lower Upper
84 100
49 72.2 95.8 143.6#
51 31.3 28.6 43.0
86 44.2 46.8 70.2#



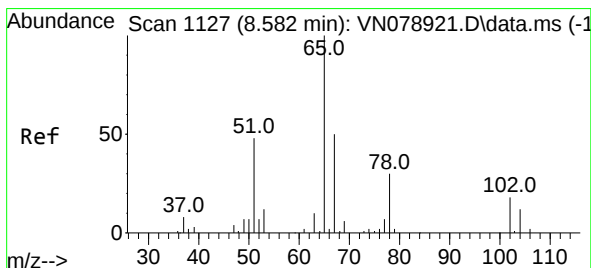
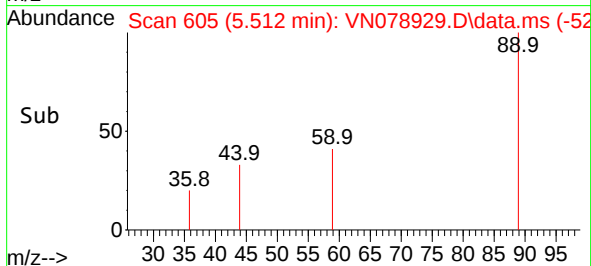
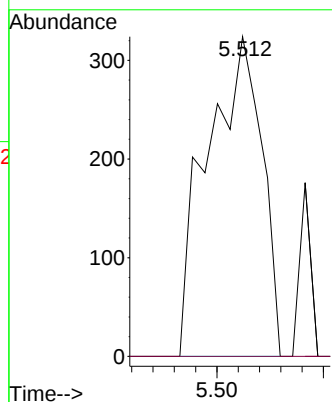


#23
tert-Butyl Alcohol
Concen: 1.151 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Instrument :
MSVOA_N
ClientSampleId :

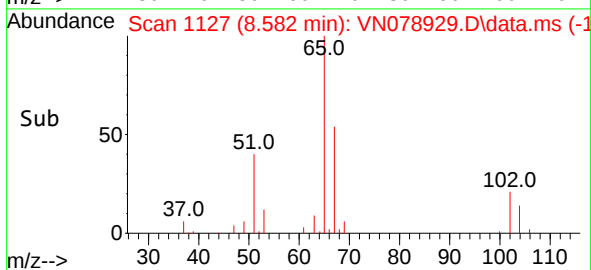
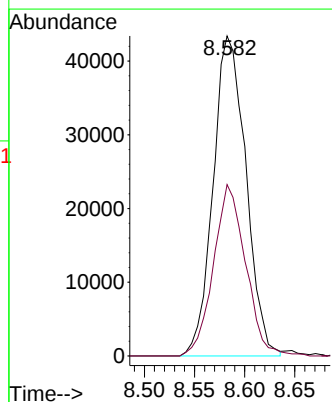
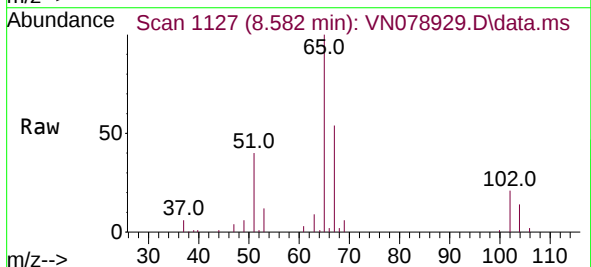


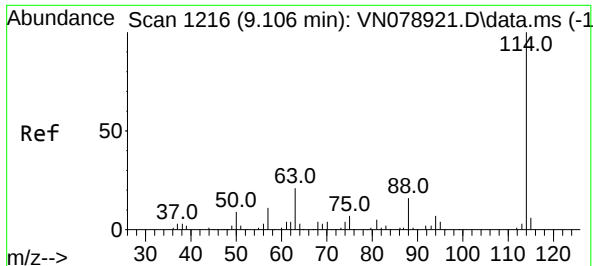
Tgt Ion: 59 Resp: 577
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 29.588 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Tgt Ion: 65 Resp: 98727
Ion Ratio Lower Upper
65 100
67 52.5 40.7 61.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

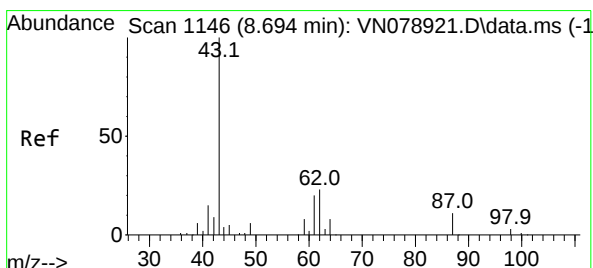
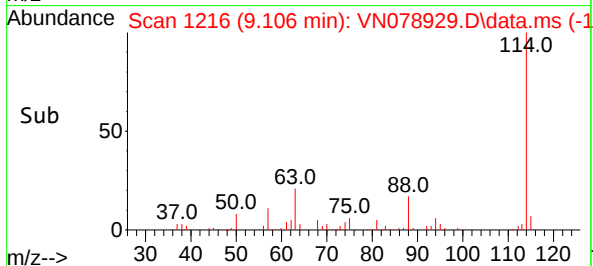
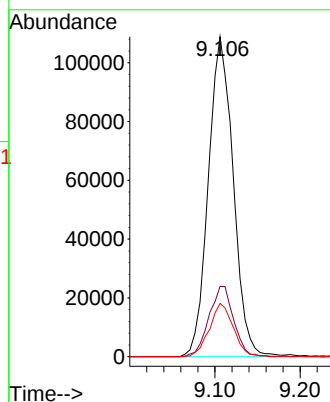
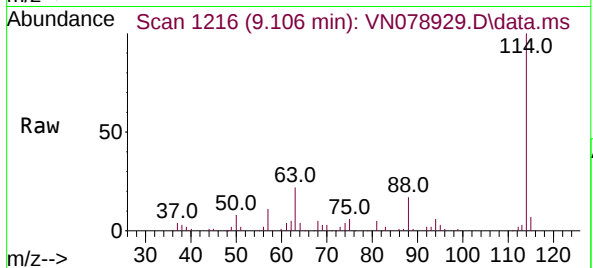
Tgt Ion:114 Resp: 220724

Ion Ratio Lower Upper

114 100

63 21.7 17.4 26.2

88 16.0 12.0 18.0



#44

Isopropyl Acetate

Concen: 0.259 ug/l

RT: 8.718 min Scan# 1150

Delta R.T. 0.024 min

Lab File: VN078929.D

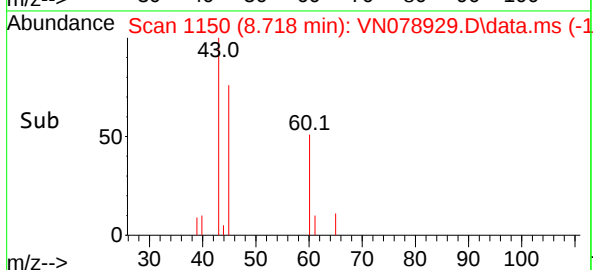
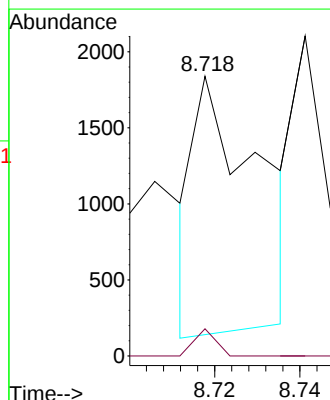
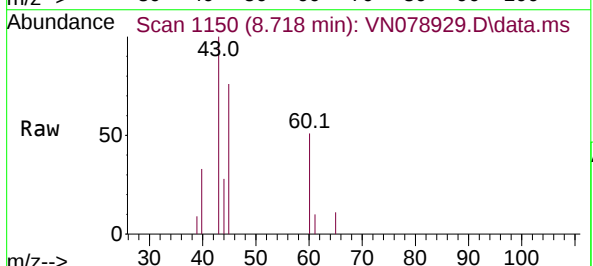
Acq: 17 Aug 2023 16:28

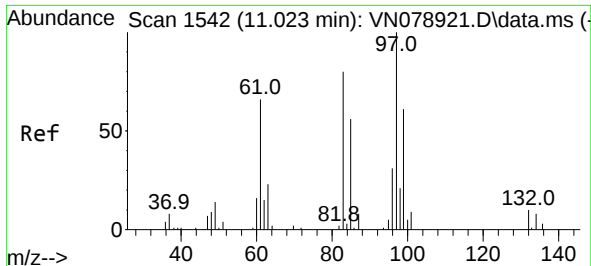
Tgt Ion: 43 Resp: 1740

Ion Ratio Lower Upper

43 100

61 0.0 19.0 28.4#





#50

1,1,2-Trichloroethane

Concen: 3.666 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.447 min

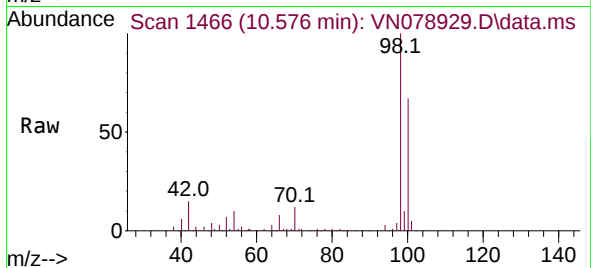
Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 9001

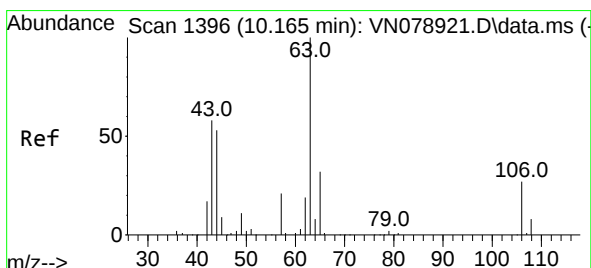
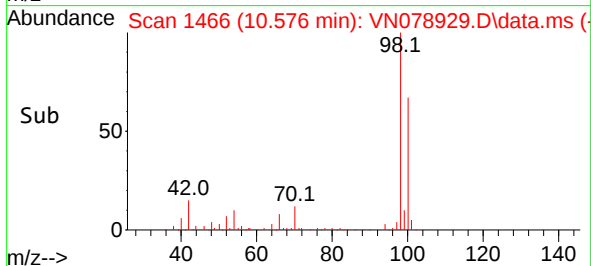
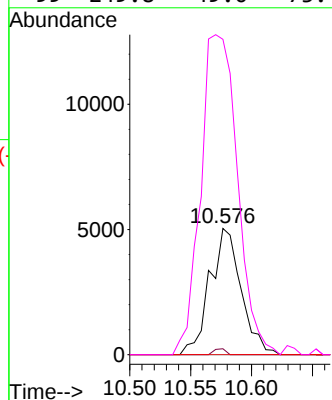
Ion Ratio Lower Upper

97 100

83 4.7 63.7 95.5#

85 0.0 44.9 67.3#

99 249.8 49.0 73.4#



#55

2-Chloroethyl vinyl ether

Concen: 0.286 ug/l

RT: 10.165 min Scan# 1396

Delta R.T. 0.000 min

Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

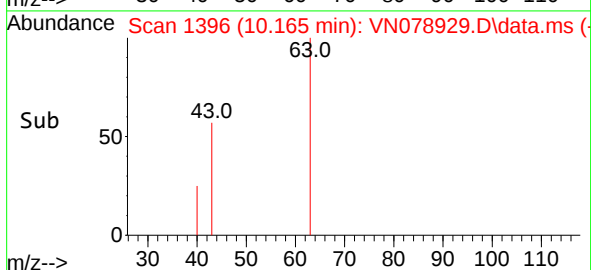
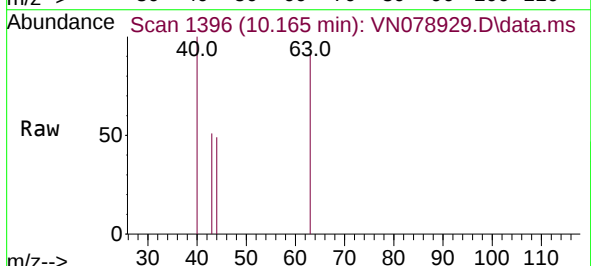
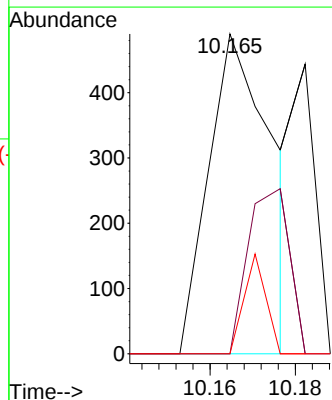
Tgt Ion: 63 Resp: 503

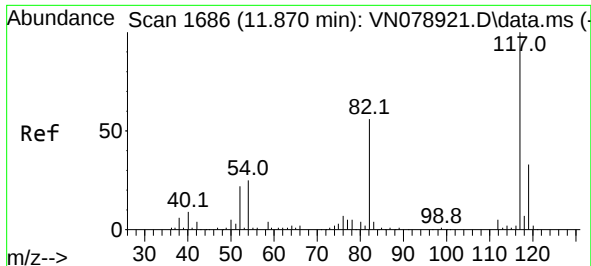
Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#

106 0.0 22.3 33.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

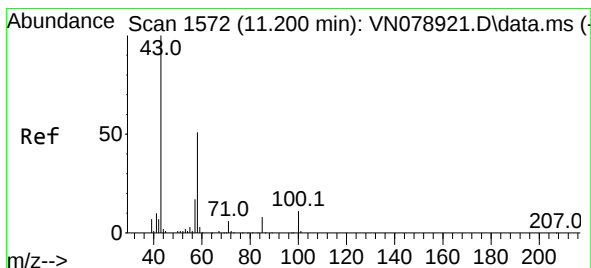
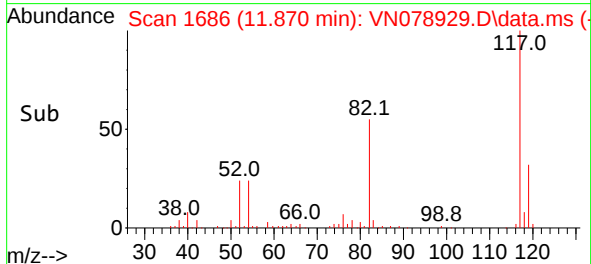
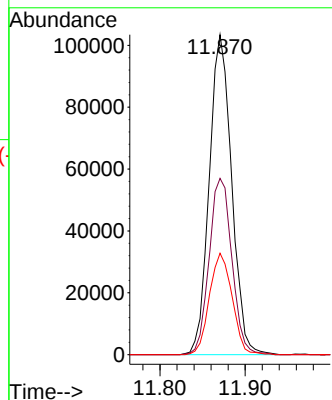
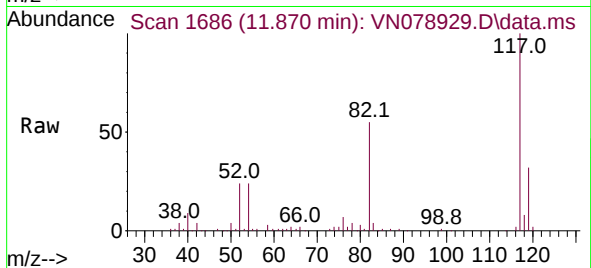
Tgt Ion:117 Resp: 189339

Ion Ratio Lower Upper

117 100

82 55.9 43.4 65.0

119 32.1 25.5 38.3



#59

2-Hexanone

Concen: 0.432 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

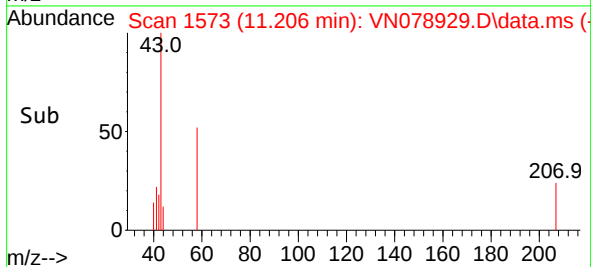
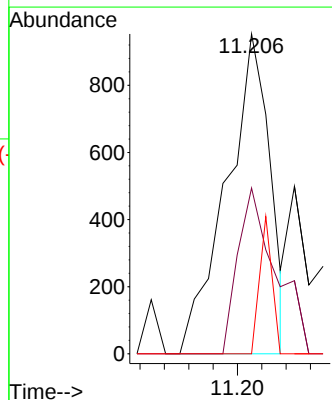
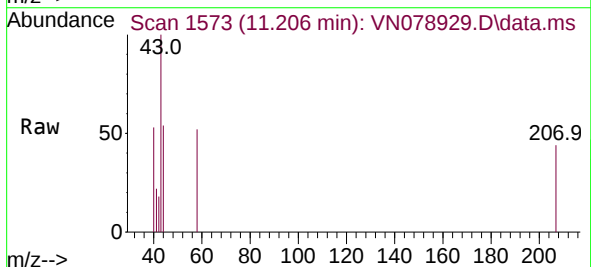
Tgt Ion: 43 Resp: 1190

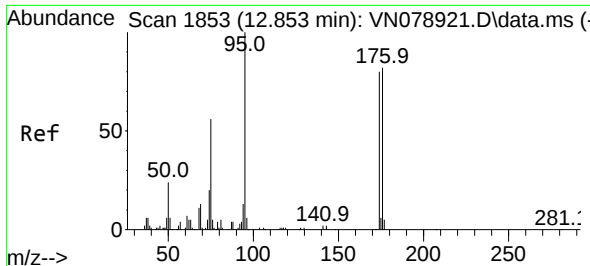
Ion Ratio Lower Upper

43 100

58 45.0 40.6 60.8

57 0.0 13.6 20.4#

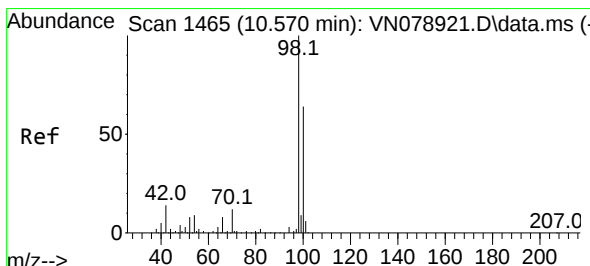
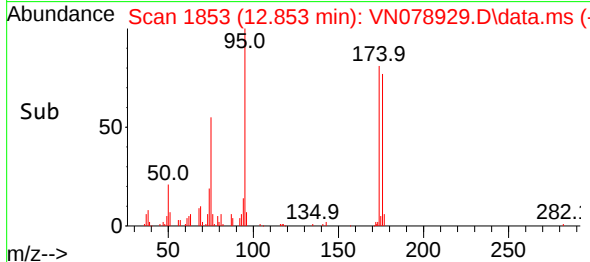
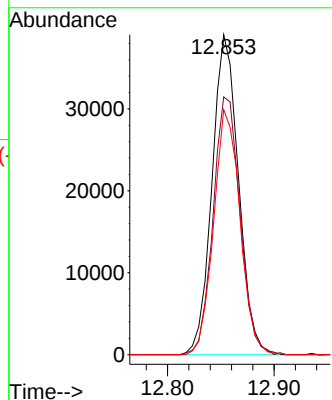
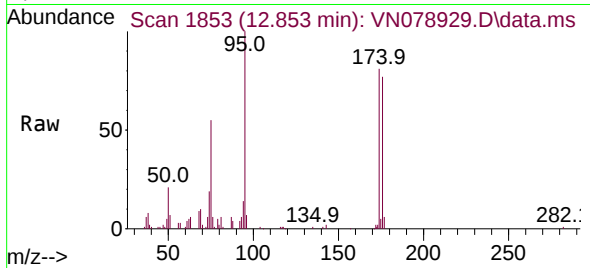




#60
4-Bromofluorobenzene
Concen: 24.357 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

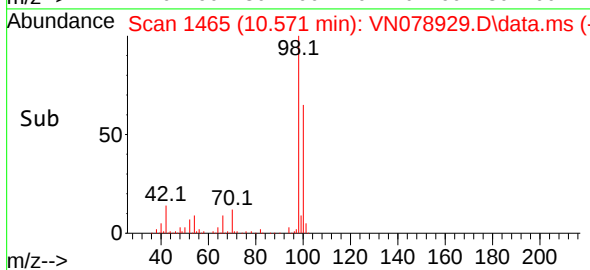
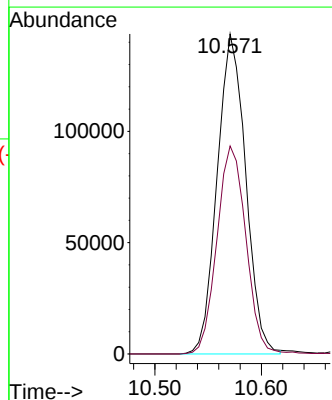
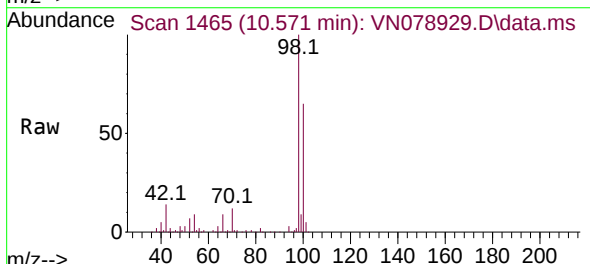
Instrument :
MSVOA_N
ClientSampleId :

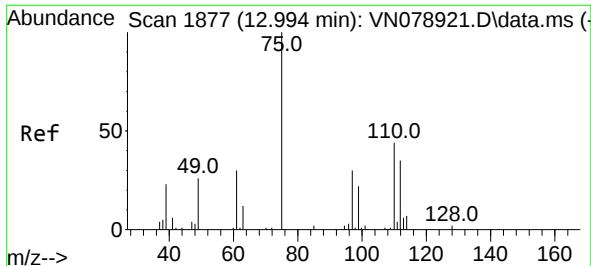
Tgt Ion: 95 Resp: 67271
Ion Ratio Lower Upper
95 100
174 82.1 64.8 97.2
176 76.5 63.0 94.6



#63
Toluene-d8
Concen: 30.216 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Tgt Ion: 98 Resp: 267169
Ion Ratio Lower Upper
98 100
100 65.8 51.1 76.7

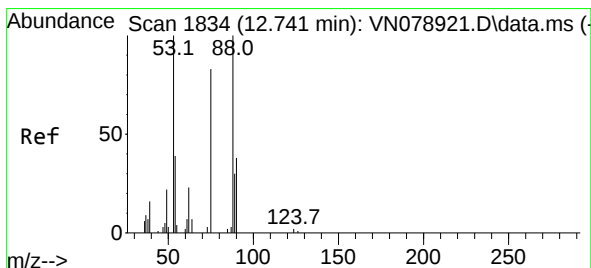
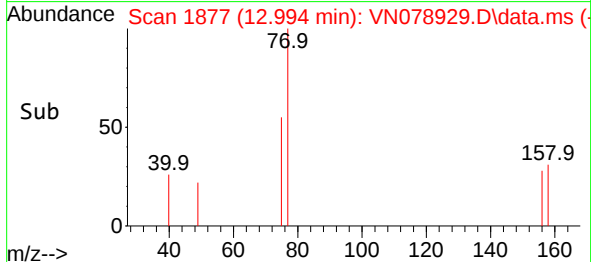
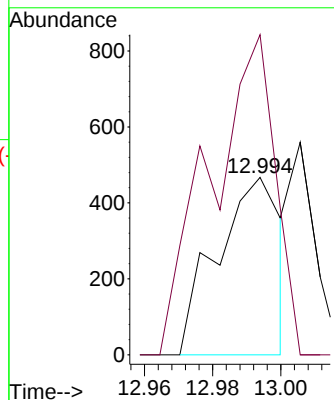
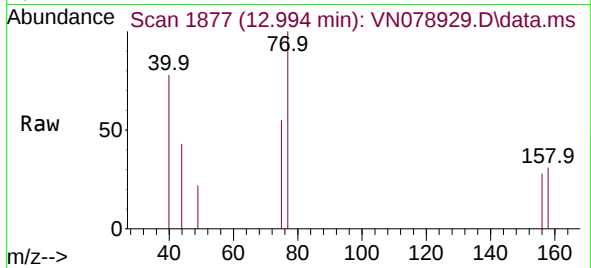




#72
1,2,3-Trichloropropane
Concen: 0.207 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

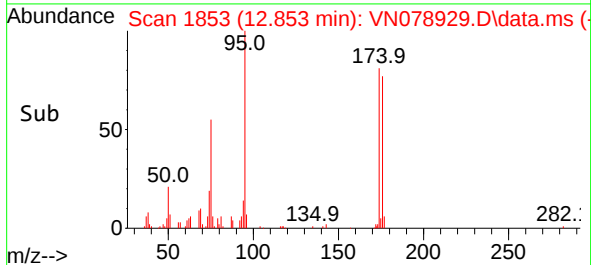
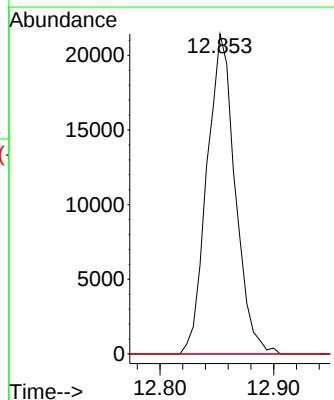
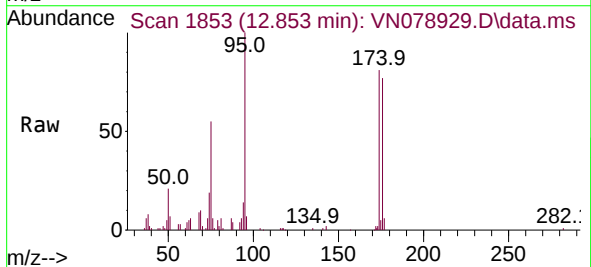
Instrument :
MSVOA_N
ClientSampleId :

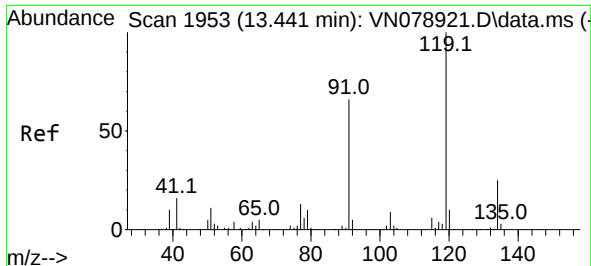
Tgt Ion: 75 Resp: 613
Ion Ratio Lower Upper
75 100
77 182.2 0.0 367.4



#77
t-1,4-Dichloro-2-butene
Concen: 33.637 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Tgt Ion: 75 Resp: 37026
Ion Ratio Lower Upper
75 100
53 0.0 60.1 180.3#
89 0.0 22.9 68.8#





#79

tert-butylbenzene

Concen: 0.282 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. 0.300 min

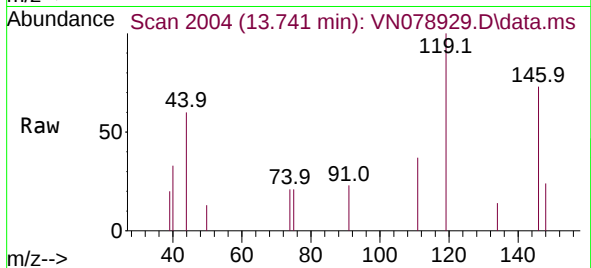
Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :



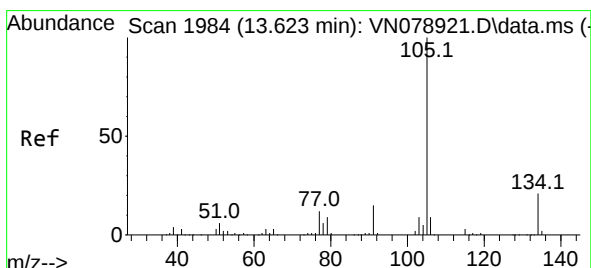
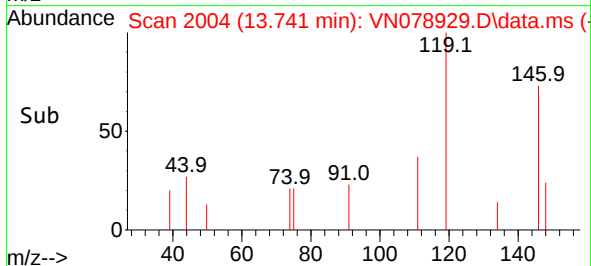
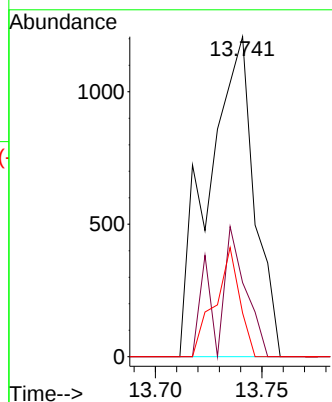
Tgt Ion:119 Resp: 1818

Ion Ratio Lower Upper

119 100

91 18.3 0.0 135.6

134 18.3 0.0 51.4



#81

sec-Butylbenzene

Concen: 0.320 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. -0.012 min

Lab File: VN078929.D

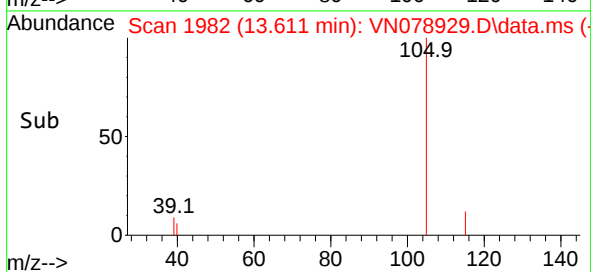
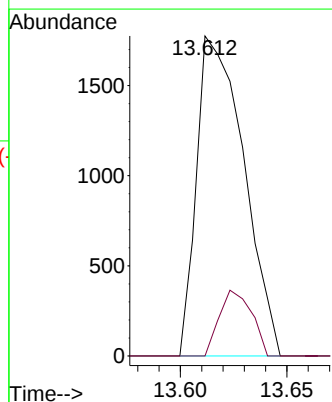
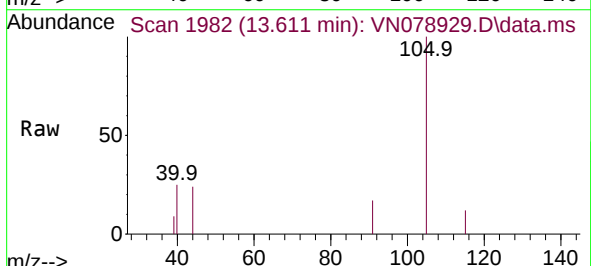
Acq: 17 Aug 2023 16:28

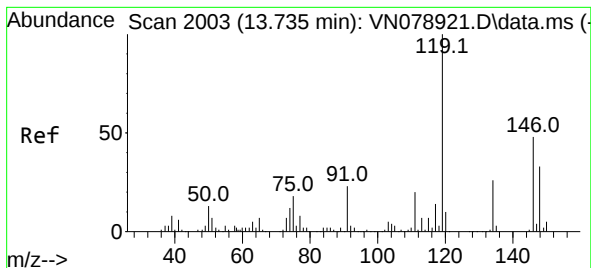
Tgt Ion:105 Resp: 2724

Ion Ratio Lower Upper

105 100

134 14.1 0.0 41.6





#82

p-Isopropyltoluene

Concen: 0.262 ug/l

RT: 13.741 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN078929.D

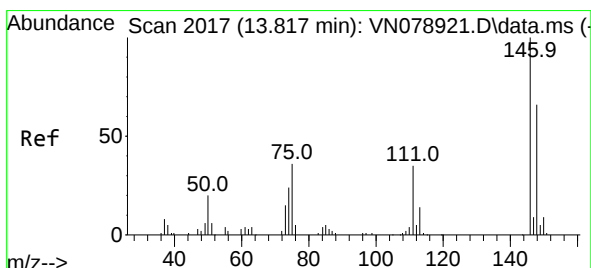
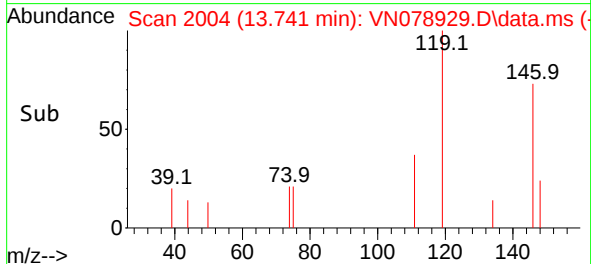
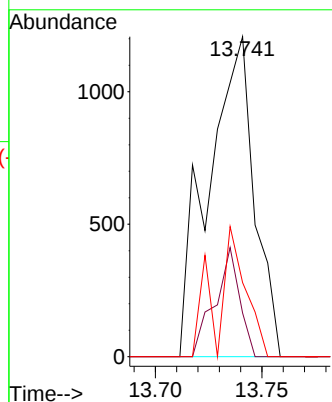
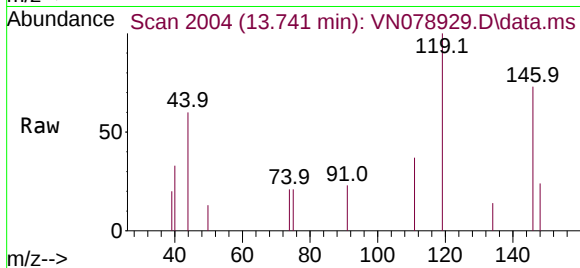
Acq: 17 Aug 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	1818
Ion	Ratio	Lower	Upper
119	100		
134	18.3	0.0	52.4
91	18.3	0.0	47.4



#84

1,4-Dichlorobenzene

Concen: 0.243 ug/l

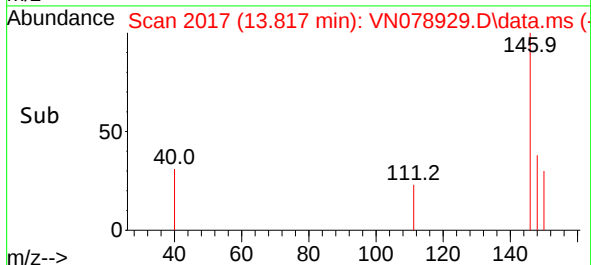
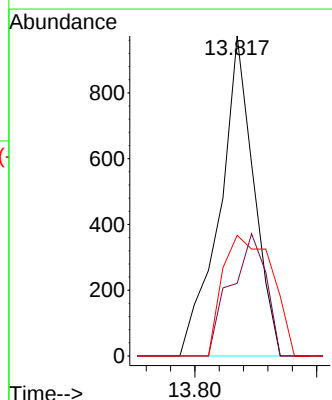
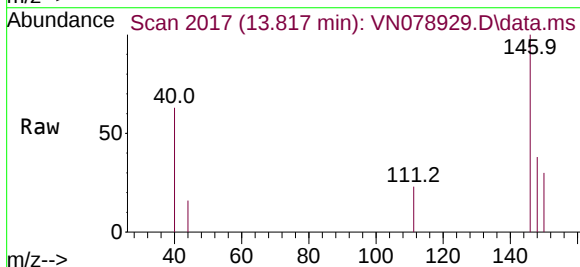
RT: 13.817 min Scan# 2017

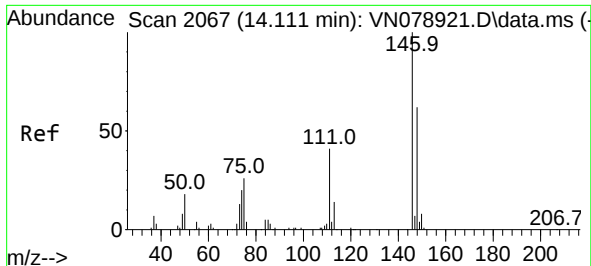
Delta R.T. 0.000 min

Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

Tgt Ion:	146	Resp:	945
Ion	Ratio	Lower	Upper
146	100		
111	39.4	18.6	56.0
148	54.8	32.0	96.2





#87

1,2-Dichlorobenzene

Concen: 0.233 ug/l

RT: 13.817 min Scan# 2067

Delta R.T. -0.294 min

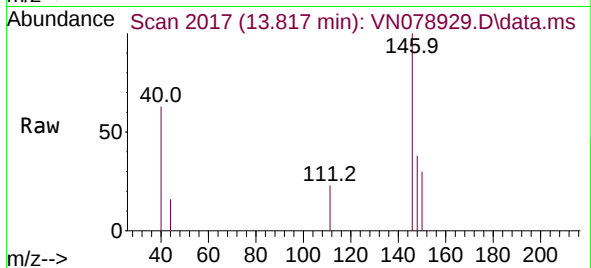
Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :



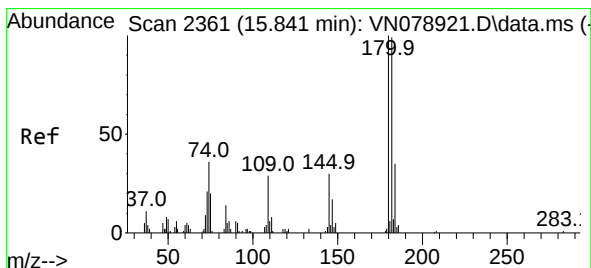
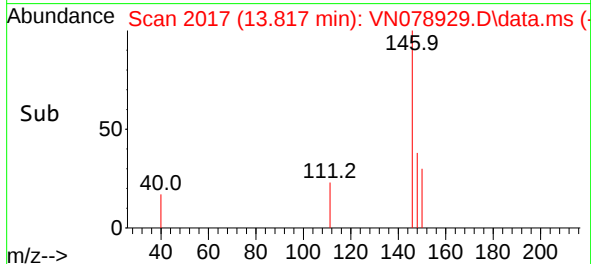
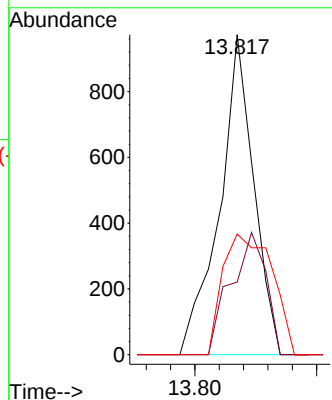
Tgt Ion:146 Resp: 945

Ion Ratio Lower Upper

146 100

111 39.4 20.3 60.8

148 54.8 32.0 96.2



#89

1,2,4-Trichlorobenzene

Concen: 0.752 ug/l

RT: 15.853 min Scan# 2363

Delta R.T. 0.012 min

Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

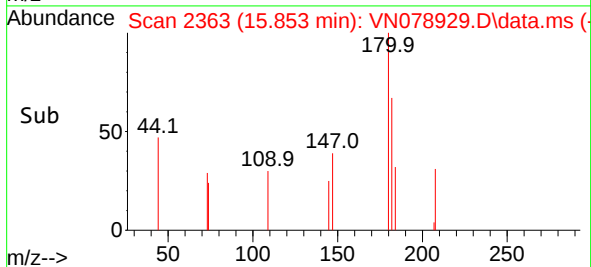
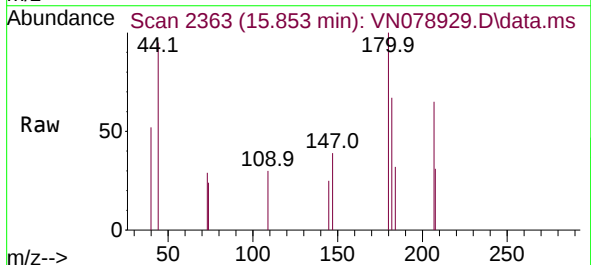
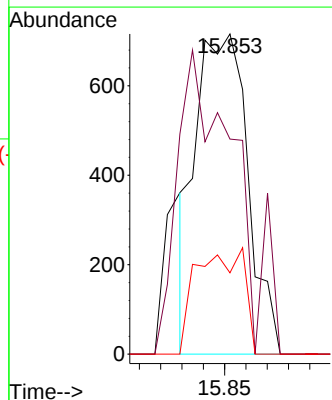
Tgt Ion:180 Resp: 1203

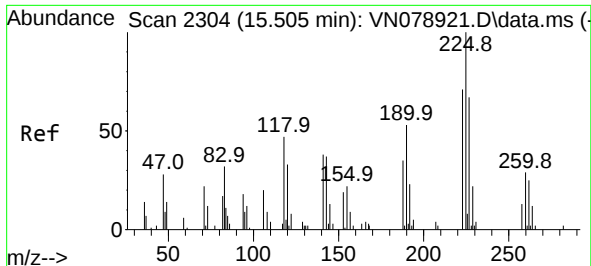
Ion Ratio Lower Upper

180 100

182 10.6 76.1 114.1#

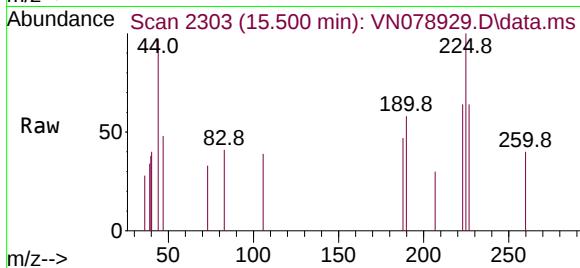
145 7.0 26.5 39.7#



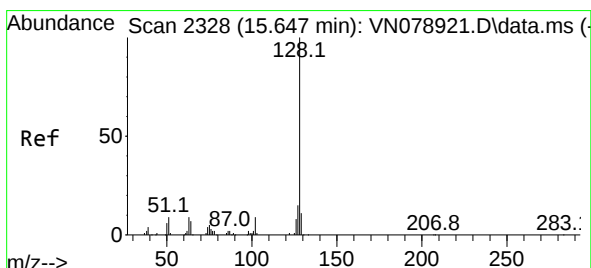
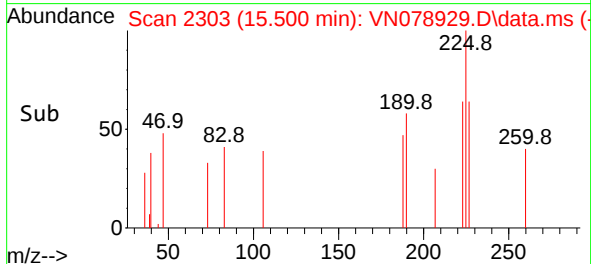
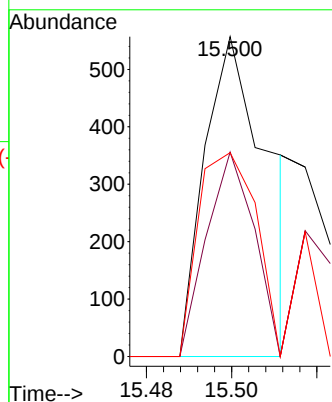


#90
Hexachlorobutadiene
Concen: 0.695 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Instrument :
MSVOA_N
ClientSampleId :

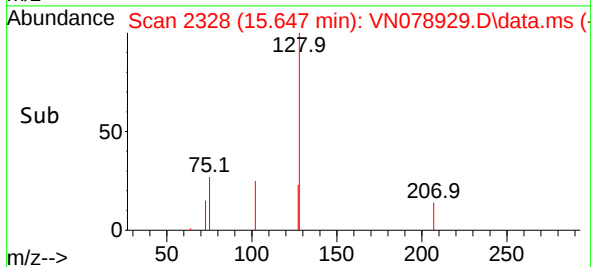
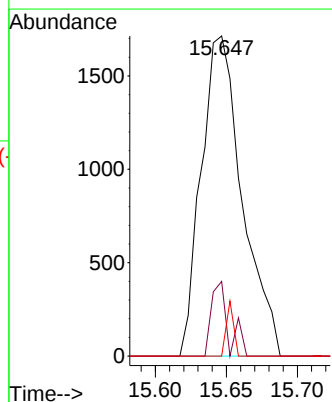
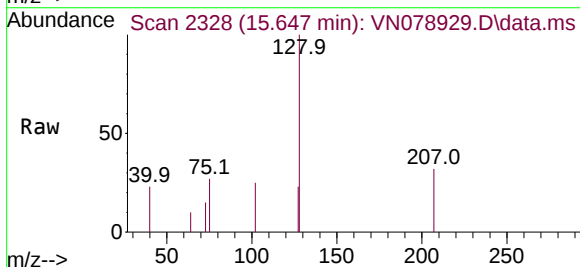


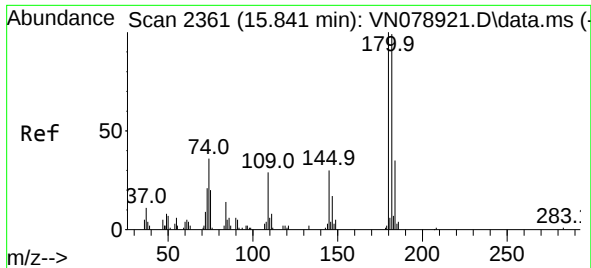
Tgt Ion:225 Resp: 579
Ion Ratio Lower Upper
225 100
223 47.7 0.0 124.0
227 57.9 0.0 117.4



#91
Naphthalene
Concen: 0.746 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.000 min
Lab File: VN078929.D
Acq: 17 Aug 2023 16:28

Tgt Ion:128 Resp: 3446
Ion Ratio Lower Upper
128 100
127 7.6 11.1 16.7#
129 0.0 8.6 13.0#





#92

1,2,3-Trichlorobenzene

Concen: 0.752 ug/l

RT: 15.853 min Scan# 21

Delta R.T. 0.012 min

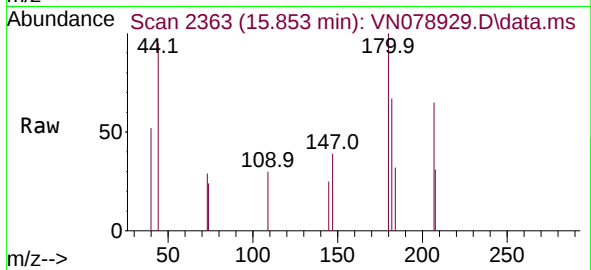
Lab File: VN078929.D

Acq: 17 Aug 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 1203

Ion Ratio Lower Upper

180 100

182 10.6 0.0 190.2

145 7.0 0.0 66.2

