

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079580.D
 Acq On : 17 Oct 2023 14:25
 Operator : JC\MD
 Sample : VN1017WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 02:29:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

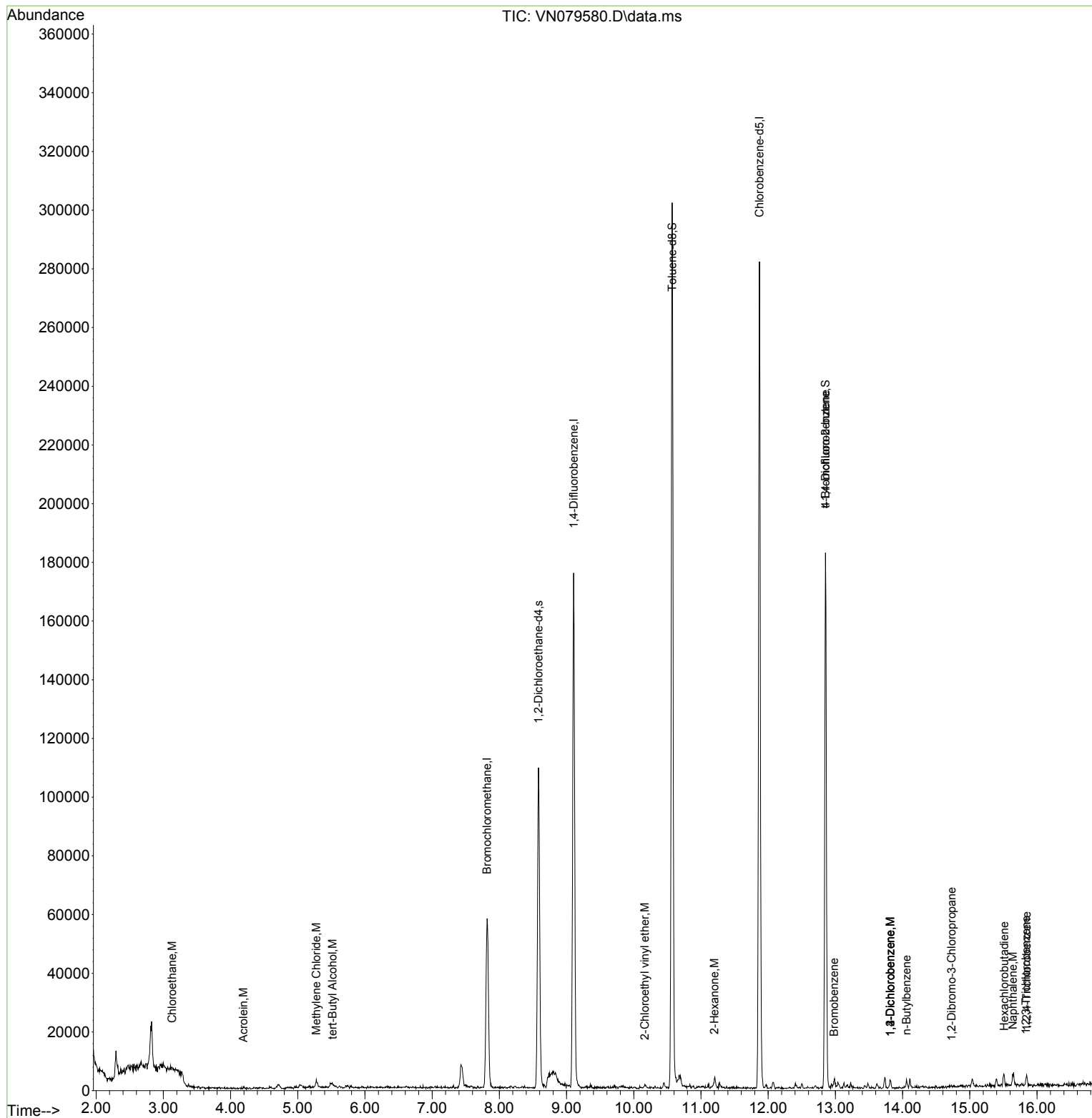
Internal Standards						
1) Bromochloromethane	7.818	128	20283	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	143166	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	161727	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	89013	30.867	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.900%
60) 4-Bromofluorobenzene	12.853	95	61555	20.813	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	69.367%
63) Toluene-d8	10.571	98	204716	29.540	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.467%
Target Compounds						
					Qvalue	
6) Chloroethane	3.130	64	647	0.223	ug/l #	46
13) Acrolein	4.189	56	316	0.580	ug/l #	14
18) Methylene Chloride	5.277	84	1326	0.394	ug/l #	92
23) tert-Butyl Alcohol	5.518	59	604	1.145	ug/l #	100
55) 2-Chloroethyl vinyl ether	10.165	63	557	0.346	ug/l #	45
59) 2-Hexanone	11.200	43	2594	0.937	ug/l #	81
73) Bromobenzene	12.982	156	592	0.218	ug/l	87
77) t-1,4-Dichloro-2-butene	12.853	75	33319	29.257	ug/l #	7
83) 1,3-Dichlorobenzene	13.818	146	1114	0.250	ug/l	82
84) 1,4-Dichlorobenzene	13.818	146	1114	0.260	ug/l	84
85) n-Butylbenzene	14.059	91	1604	0.243	ug/l	79
87) 1,2-Dichlorobenzene	13.818	146	1114	0.251	ug/l	79
88) 1,2-Dibromo-3-Chloropr...	14.729	75	228	0.364	ug/l #	42
89) 1,2,4-Trichlorobenzene	15.847	180	841	0.538	ug/l #	25
90) Hexachlorobutadiene	15.512	225	858	0.775	ug/l	82
91) Naphthalene	15.641	128	4661	1.155	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.835	180	682	0.436	ug/l	72

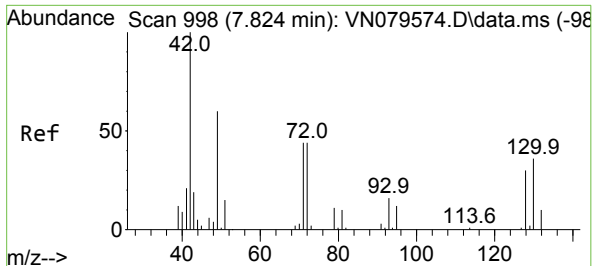
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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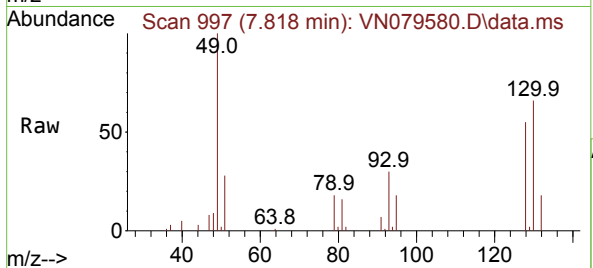
Quant Time: Oct 18 02:29:28 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
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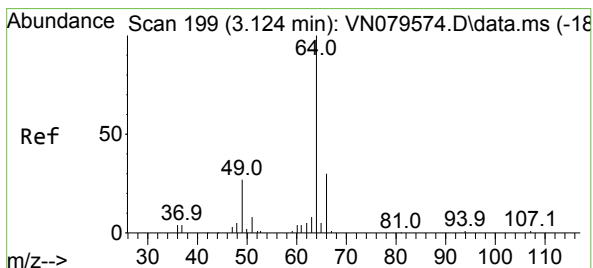
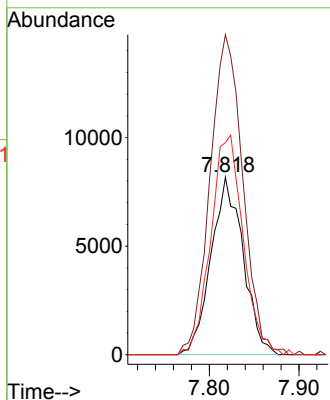
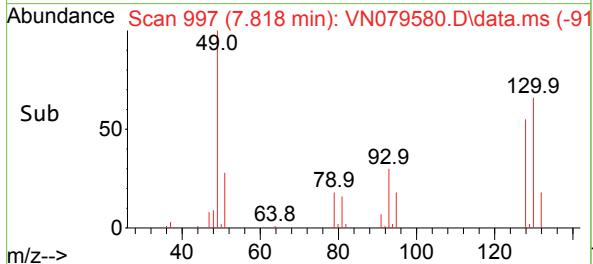


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

Instrument :
MSVOA_N
ClientSampleId :

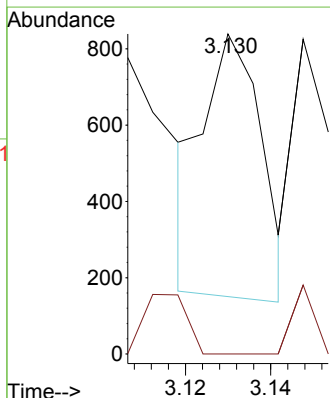
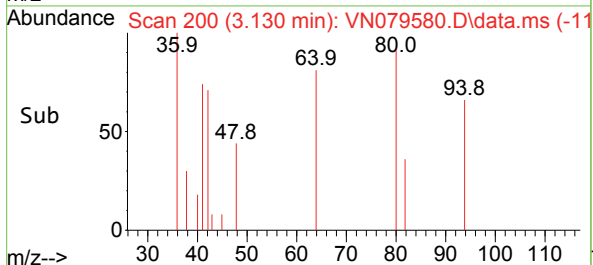
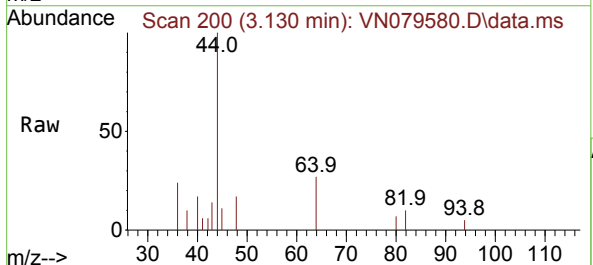


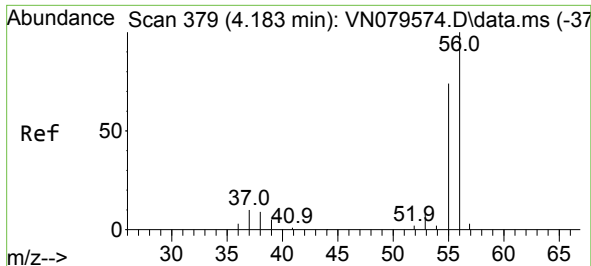
Tgt Ion:128 Resp: 20283
Ion Ratio Lower Upper
128 100
49 183.9 0.0 468.5
130 125.1 0.0 320.7



#6
Chloroethane
Concen: 0.223 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

Tgt Ion: 64 Resp: 647
Ion Ratio Lower Upper
64 100
66 0.0 23.3 34.9#





#13

Acrolein

Concen: 0.580 ug/l

RT: 4.189 min Scan# 316

Delta R.T. 0.006 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Instrument :

MSVOA_N

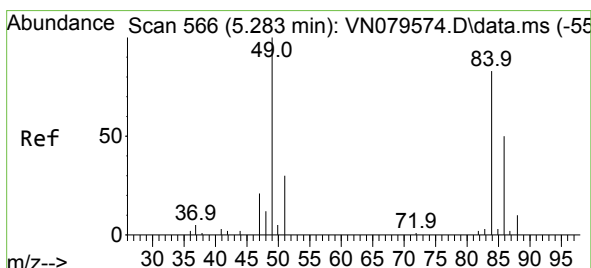
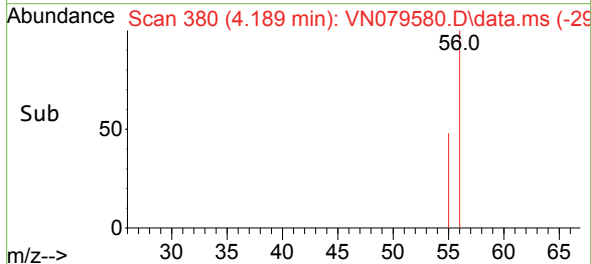
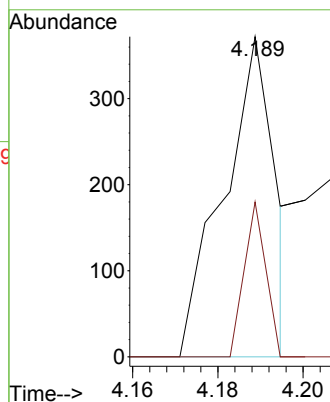
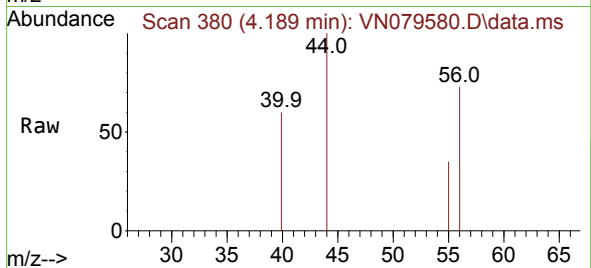
ClientSampleId :

Tgt Ion: 56 Resp: 316

Ion Ratio Lower Upper

56 100

55 0.0 57.1 85.7#



#18

Methylene Chloride

Concen: 0.394 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.006 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Tgt Ion: 84 Resp: 1326

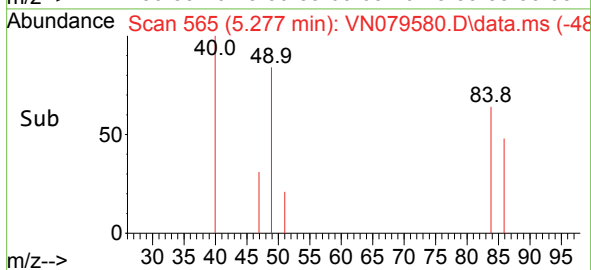
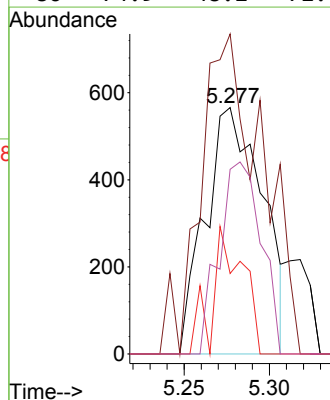
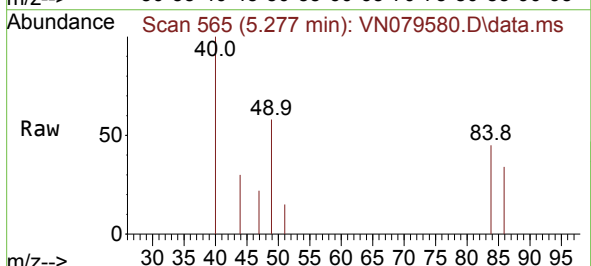
Ion Ratio Lower Upper

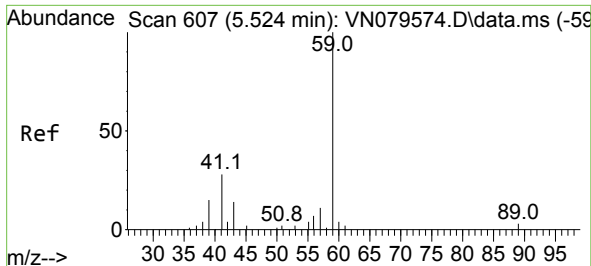
84 100

49 129.9 100.9 151.3

51 32.7 29.4 44.2

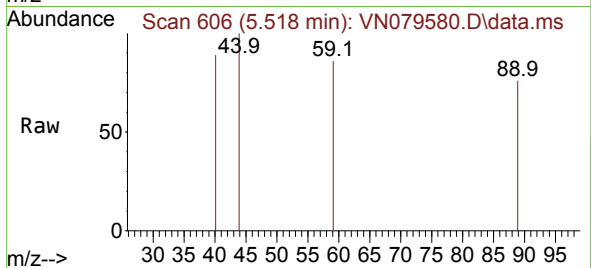
86 74.9 48.2 72.4#



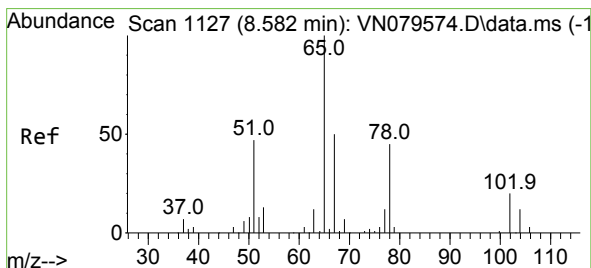
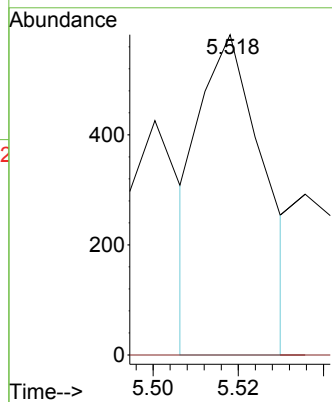
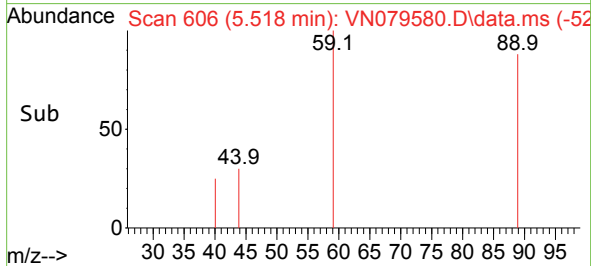


#23
tert-Butyl Alcohol
Concen: 1.145 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

Instrument :
MSVOA_N
ClientSampleId :

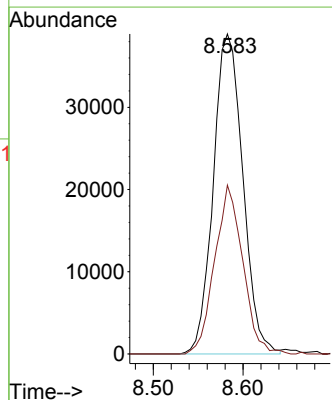
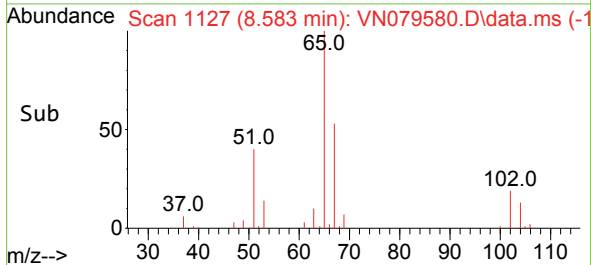
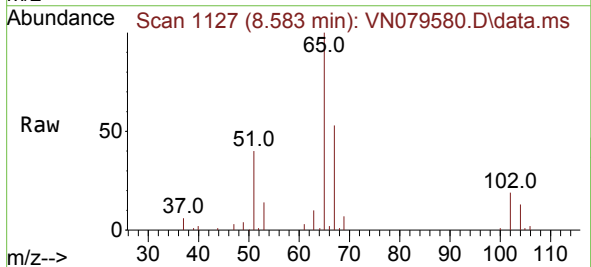


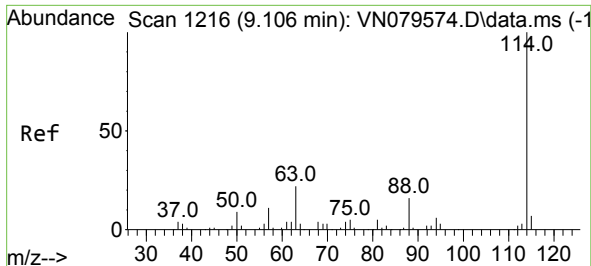
Tgt Ion: 59 Resp: 604
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 30.867 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

Tgt Ion: 65 Resp: 89013
Ion Ratio Lower Upper
65 100
67 49.7 42.1 63.1





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Instrument :

MSVOA_N

ClientSampleId :

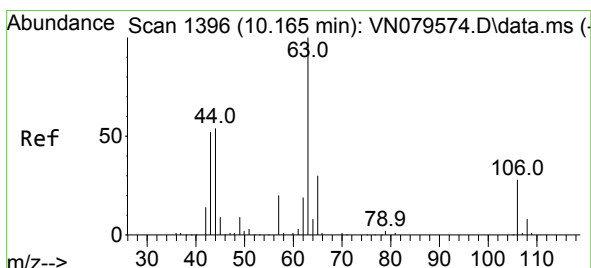
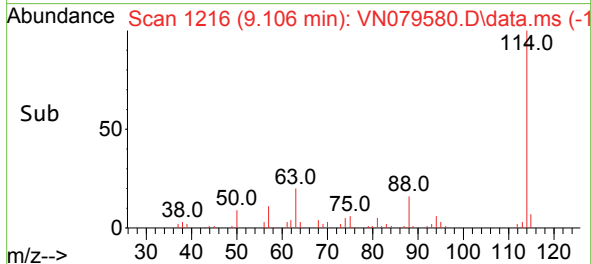
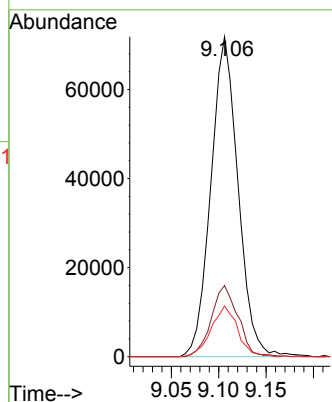
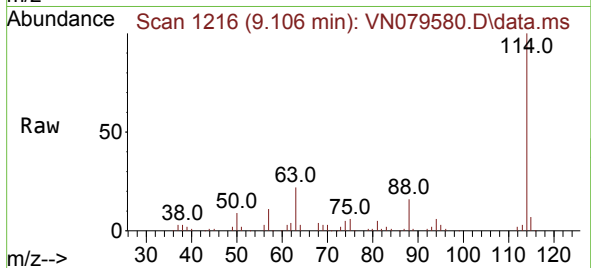
Tgt Ion:114 Resp: 143166

Ion Ratio Lower Upper

114 100

63 21.9 18.1 27.1

88 15.5 12.2 18.2



#55

2-Chloroethyl vinyl ether

Concen: 0.346 ug/l

RT: 10.165 min Scan# 1396

Delta R.T. 0.000 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

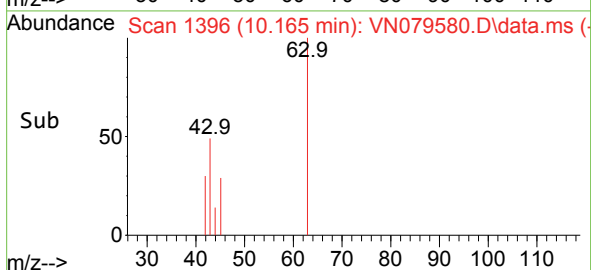
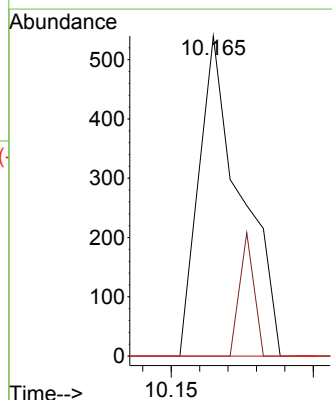
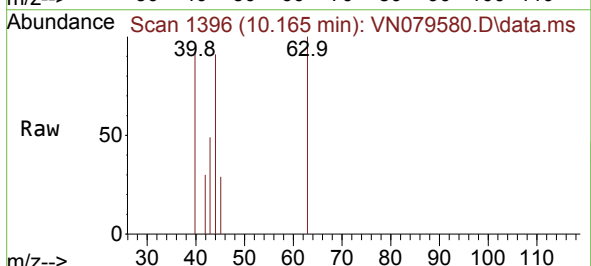
Tgt Ion: 63 Resp: 557

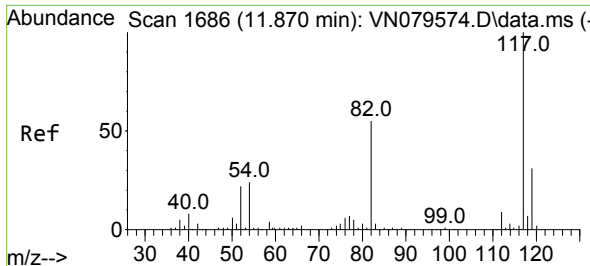
Ion Ratio Lower Upper

63 100

65 0.0 25.9 38.9#

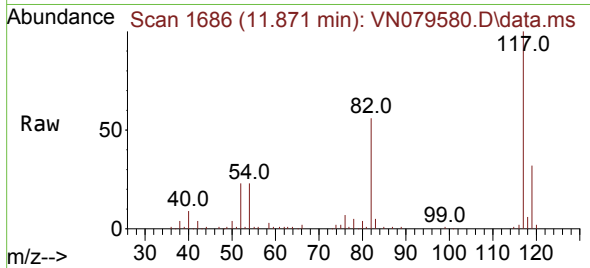
106 0.0 20.6 30.8#



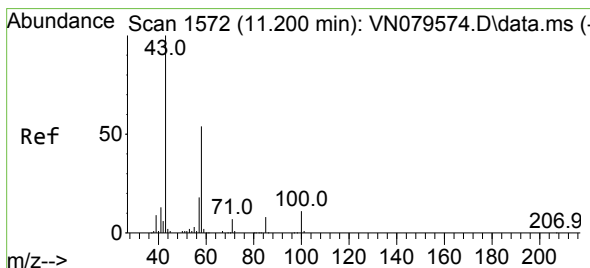
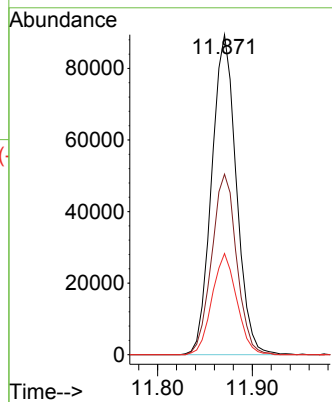
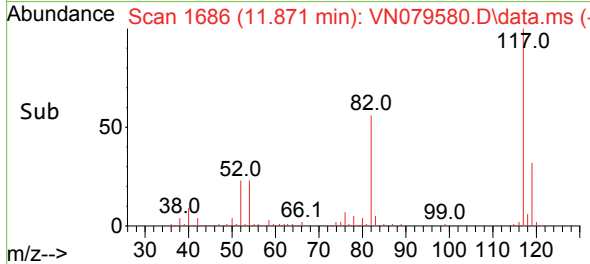


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

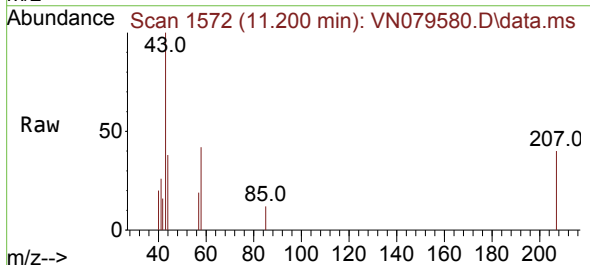
Instrument :
MSVOA_N
ClientSampleId :



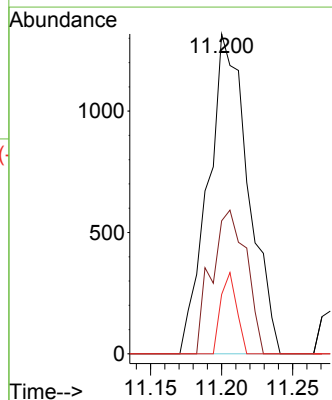
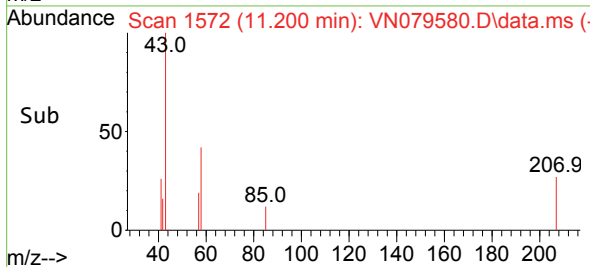
Tgt Ion:117 Resp: 161727
Ion Ratio Lower Upper
117 100
82 57.1 46.2 69.2
119 31.7 25.2 37.8

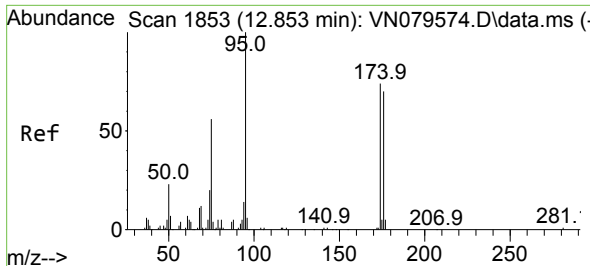


#59
2-Hexanone
Concen: 0.937 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25



Tgt Ion: 43 Resp: 2594
Ion Ratio Lower Upper
43 100
58 38.9 42.3 63.5#
57 10.0 13.9 20.9#

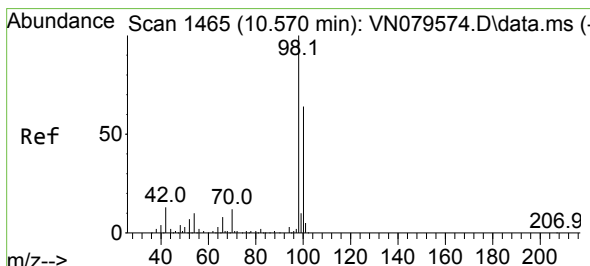
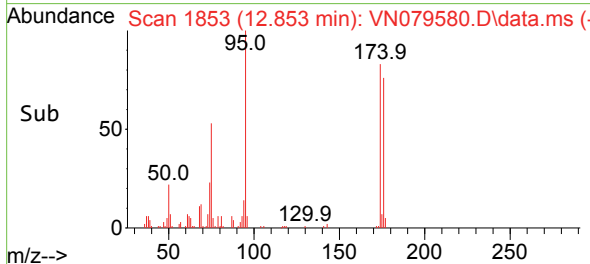
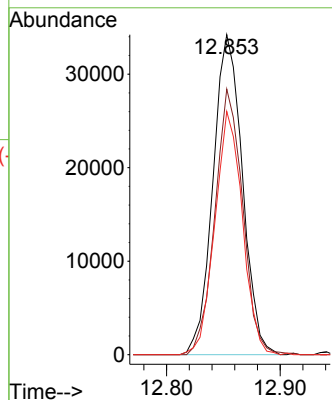
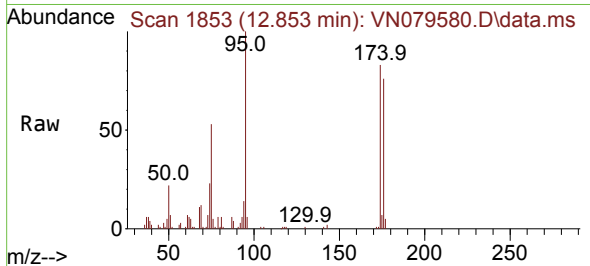




#60
4-Bromofluorobenzene
Concen: 20.813 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

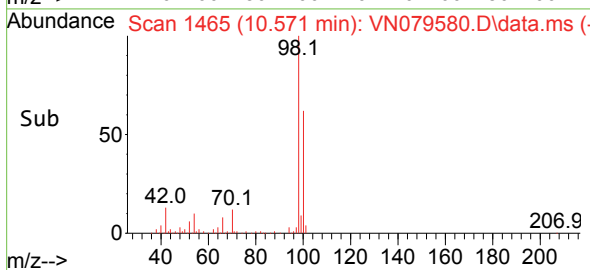
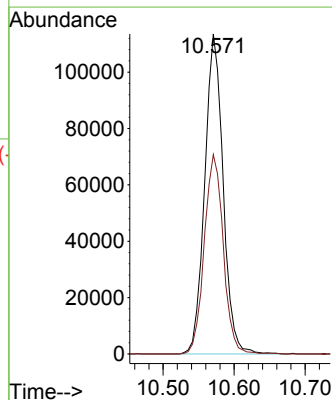
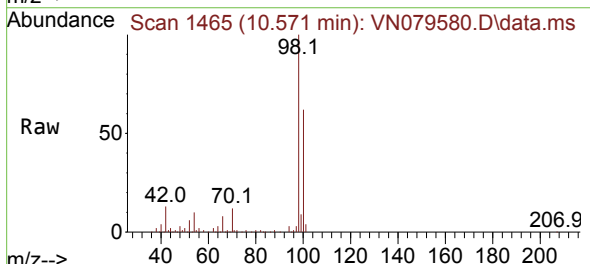
Instrument :
MSVOA_N
ClientSampleId :

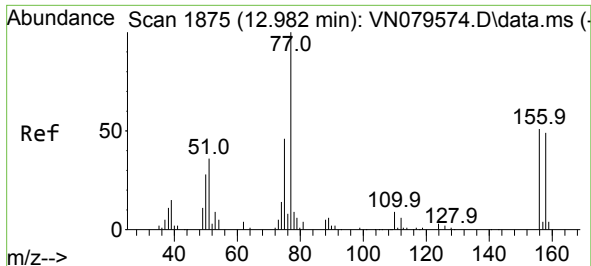
Tgt Ion: 95 Resp: 61555
Ion Ratio Lower Upper
95 100
174 78.3 60.5 90.7
176 71.3 57.2 85.8



#63
Toluene-d8
Concen: 29.540 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

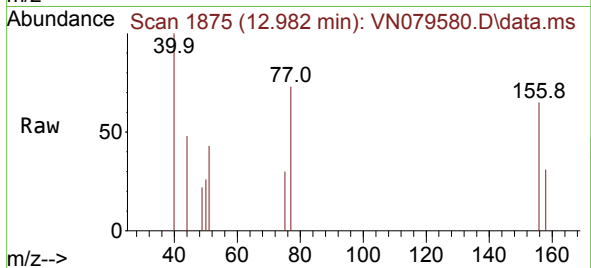
Tgt Ion: 98 Resp: 204716
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4



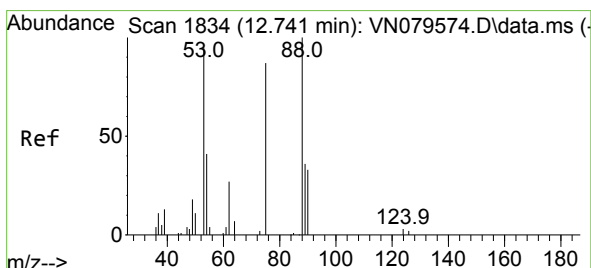
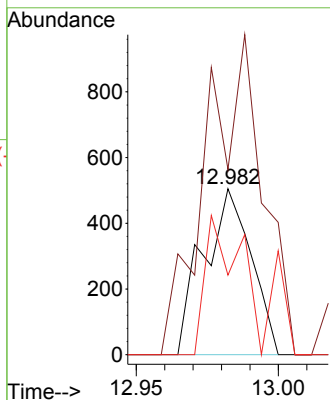
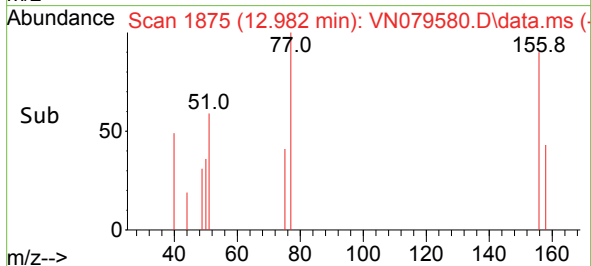


#73
Bromobenzene
Concen: 0.218 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

Instrument :
MSVOA_N
ClientSampleId :

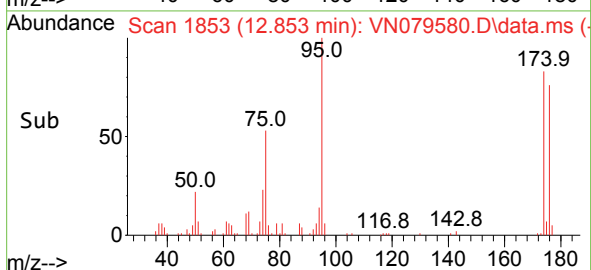
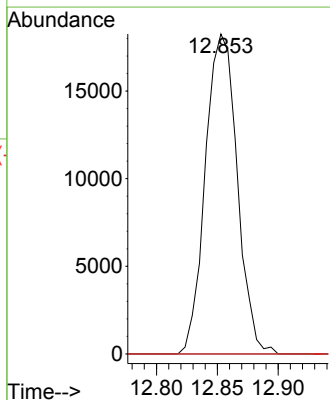
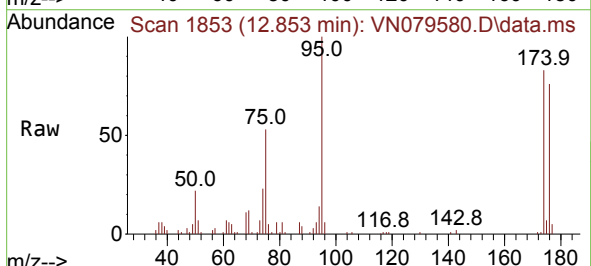


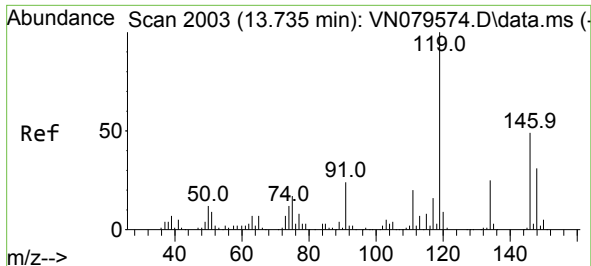
Tgt Ion:156 Resp: 592
Ion Ratio Lower Upper
156 100
77 228.0 0.0 448.2
158 61.5 0.0 194.8



#77
t-1,4-Dichloro-2-butene
Concen: 29.257 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079580.D
Acq: 17 Oct 2023 14:25

Tgt Ion: 75 Resp: 33319
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#





#83

1,3-Dichlorobenzene

Concen: 0.250 ug/l

RT: 13.818 min Scan# 20

Delta R.T. 0.083 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Instrument :

MSVOA_N

ClientSampleId :

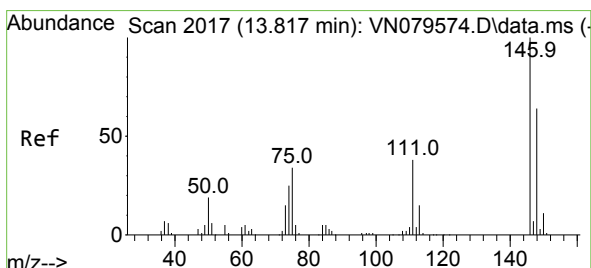
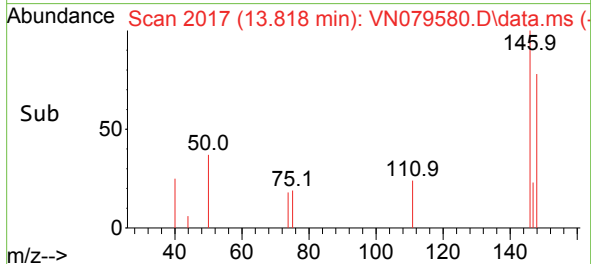
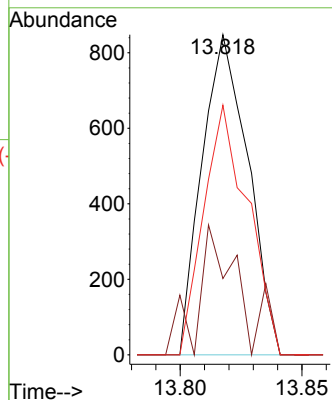
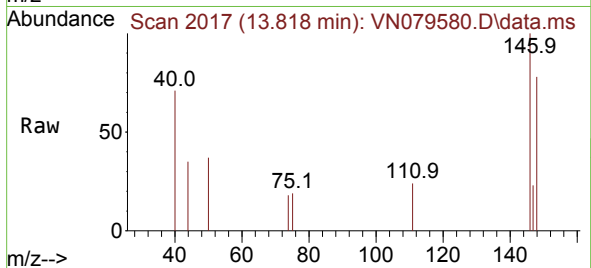
Tgt Ion:146 Resp: 1114

Ion Ratio Lower Upper

146 100

111 25.7 21.0 63.0

148 74.9 32.4 97.0



#84

1,4-Dichlorobenzene

Concen: 0.260 ug/l

RT: 13.818 min Scan# 2017

Delta R.T. 0.000 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

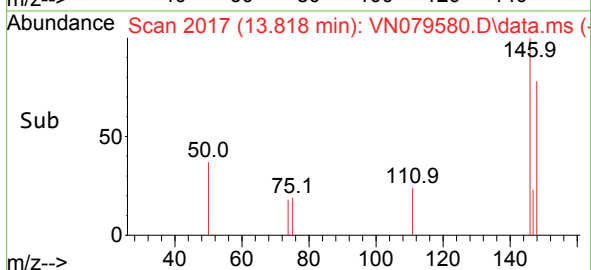
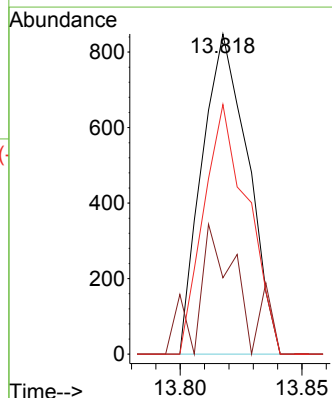
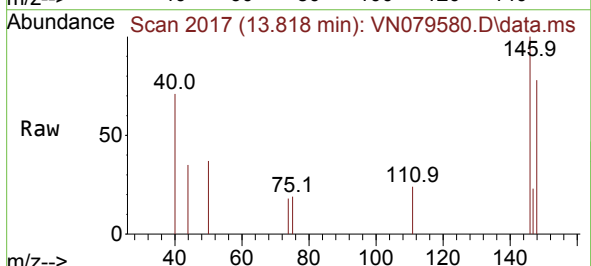
Tgt Ion:146 Resp: 1114

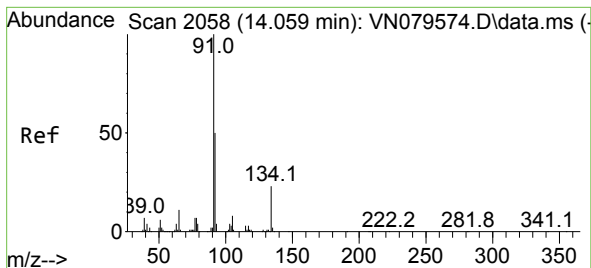
Ion Ratio Lower Upper

146 100

111 25.7 19.9 59.7

148 74.9 32.6 97.7





#85

n-Butylbenzene

Concen: 0.243 ug/l

RT: 14.059 min Scan# 2058

Delta R.T. 0.000 min

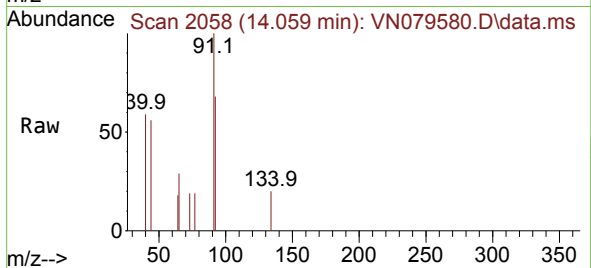
Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Instrument :

MSVOA_N

ClientSampleId :



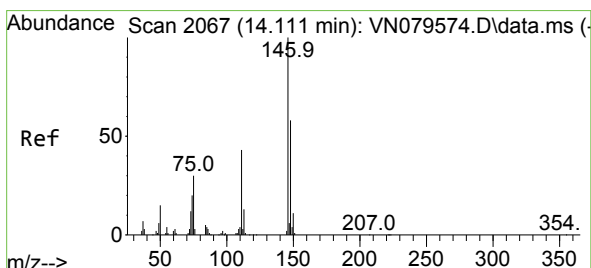
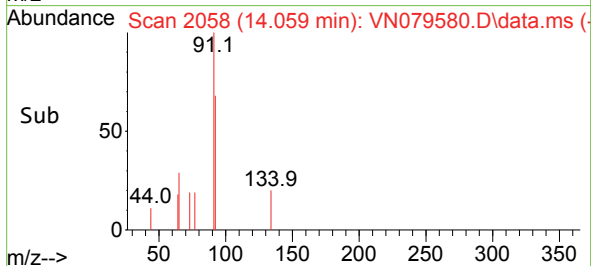
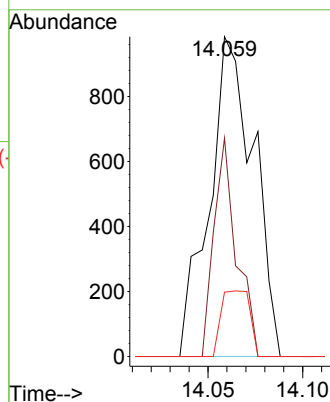
Tgt Ion: 91 Resp: 1604

Ion Ratio Lower Upper

91 100

92 34.7 0.0 99.6

134 13.2 0.0 46.2



#87

1,2-Dichlorobenzene

Concen: 0.251 ug/l

RT: 13.818 min Scan# 2017

Delta R.T. -0.294 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

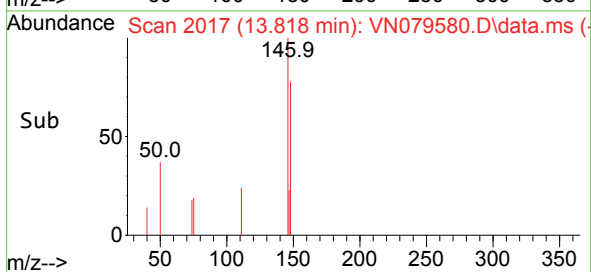
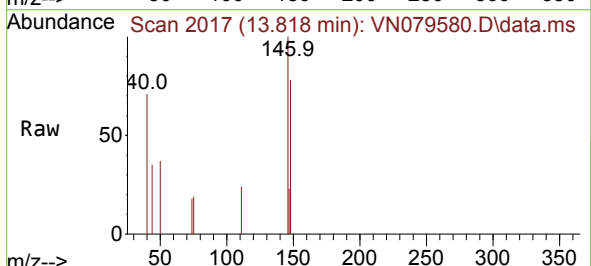
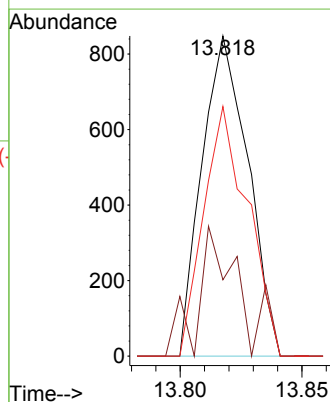
Tgt Ion: 146 Resp: 1114

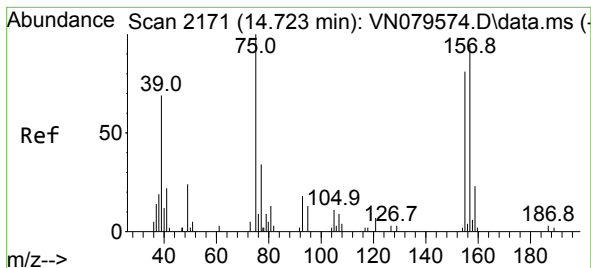
Ion Ratio Lower Upper

146 100

111 25.7 22.0 66.0

148 74.9 31.1 93.5





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.364 ug/l

RT: 14.729 min Scan# 2171

Delta R.T. 0.006 min

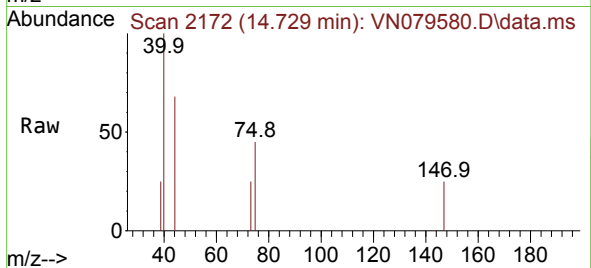
Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Instrument :

MSVOA_N

ClientSampleId :



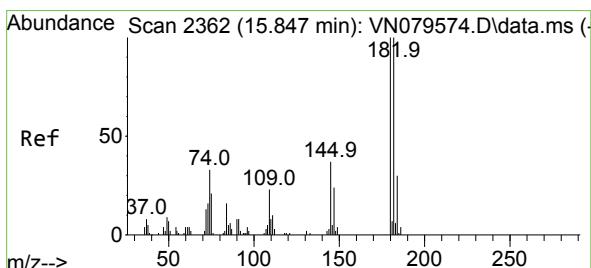
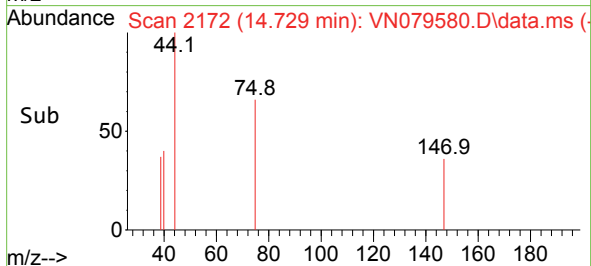
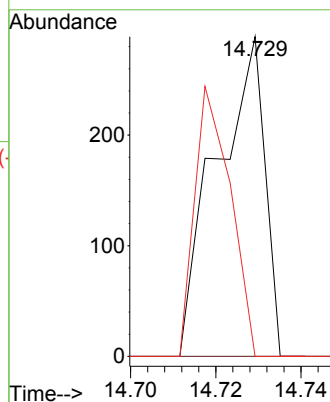
Tgt Ion: 75 Resp: 228

Ion Ratio Lower Upper

75 100

155 0.0 60.7 91.1#

157 62.3 76.8 115.2#



#89

1,2,4-Trichlorobenzene

Concen: 0.538 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.000 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

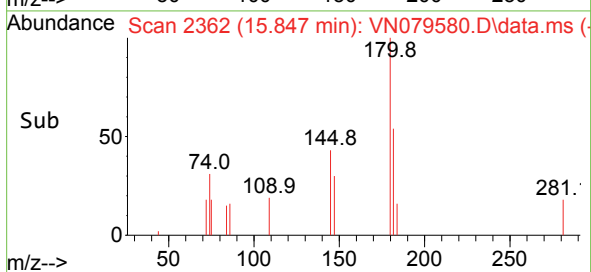
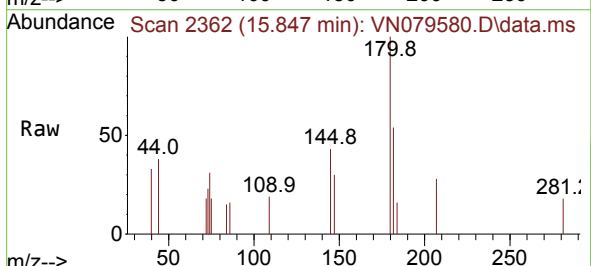
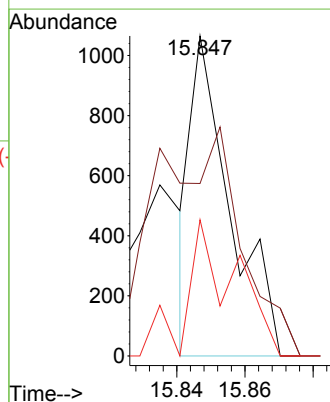
Tgt Ion: 180 Resp: 841

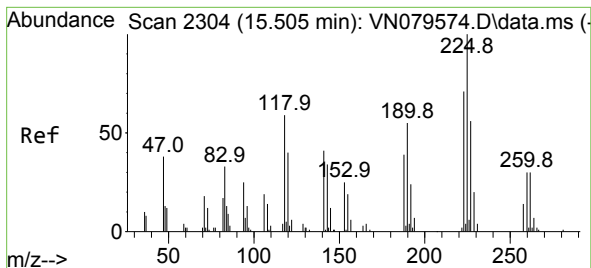
Ion Ratio Lower Upper

180 100

182 0.0 74.2 111.4#

145 26.0 25.4 38.2





#90

Hexachlorobutadiene

Concen: 0.775 ug/l

RT: 15.512 min Scan# 21

Delta R.T. 0.006 min

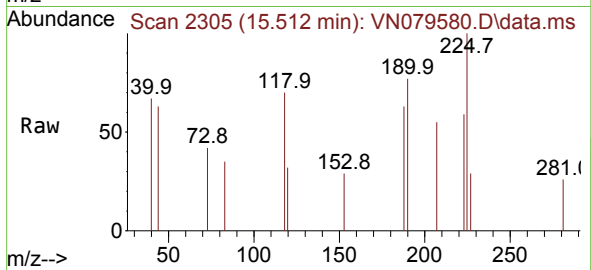
Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Instrument :

MSVOA_N

ClientSampleId :



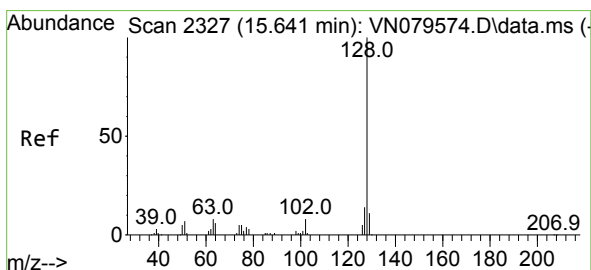
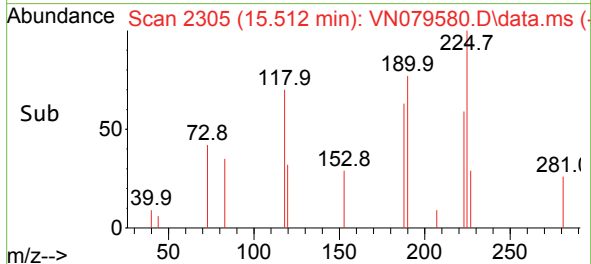
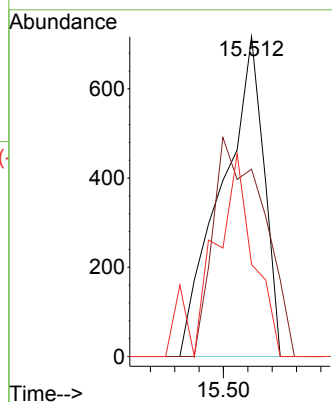
Tgt Ion:225 Resp: 858

Ion Ratio Lower Upper

225 100

223 81.9 0.0 126.0

227 54.9 0.0 127.0



#91

Naphthalene

Concen: 1.155 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

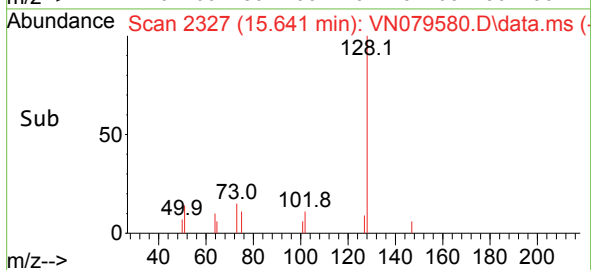
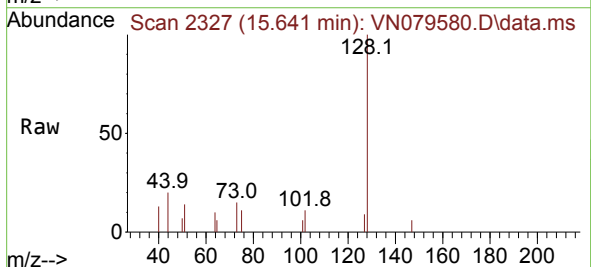
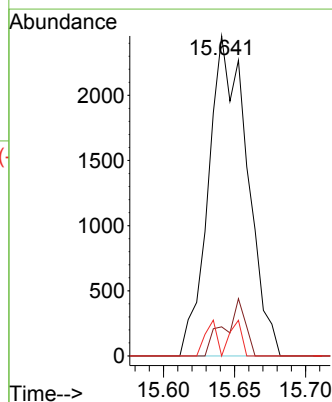
Tgt Ion:128 Resp: 4661

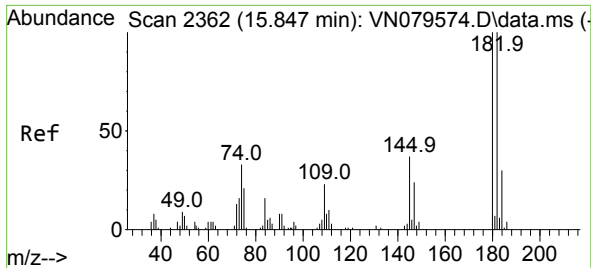
Ion Ratio Lower Upper

128 100

127 4.6 10.9 16.3#

129 3.3 8.6 12.8#





#92

1,2,3-Trichlorobenzene

Concen: 0.436 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.012 min

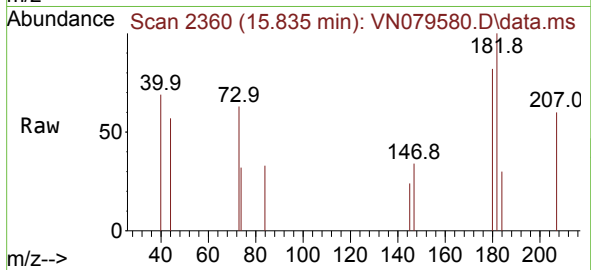
Lab File: VN079580.D

Acq: 17 Oct 2023 14:25

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 682

Ion Ratio Lower Upper

180 100

182 114.8 0.0 185.6

145 8.8 0.0 63.6

