

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079181.D
 Acq On : 07 Sep 2023 18:05
 Operator : JC\MD
 Sample : 04320-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 08 05:44:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

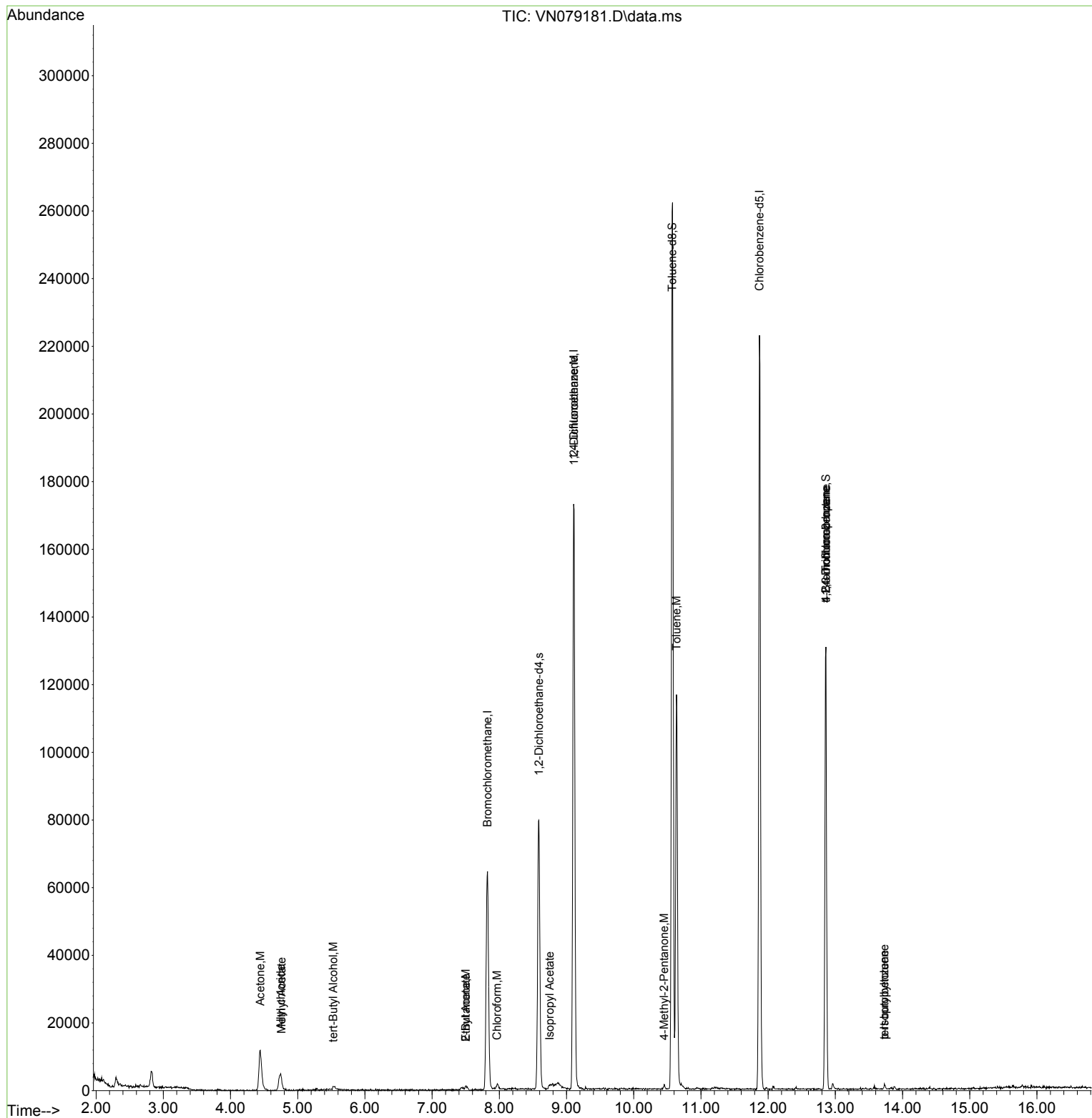
Internal Standards						
1) Bromochloromethane	7.824	128	24289	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	156049	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	138172	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	66278	36.319	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	121.067%#
60) 4-Bromofluorobenzene	12.859	95	48249	23.699	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.000%
63) Toluene-d8	10.571	98	189312	29.318	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.733%
Target Compounds						
					Qvalue	
12) Methyl Acetate	4.759	43	864	0.434	ug/l #	50
15) Acetone	4.442	58	7368	48.355	ug/l	94
17) Allyl chloride	4.748	41	893	0.651	ug/l #	25
23) tert-Butyl Alcohol	5.530	59	1236	5.501	ug/l #	100
25) Chloroform	7.965	83	1115	0.385	ug/l #	73
30) 2-Butanone	7.500	43	1893	1.504	ug/l #	60
36) 1,2-Dichloroethane	9.112	62	5004	1.909	ug/l #	73
43) Ethyl Acetate	7.500	43	1893	0.792	ug/l #	66
44) Isopropyl Acetate	8.747	43	866	0.201	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	841	0.332	ug/l #	87
62) Toluene	10.635	91	93682	11.645	ug/l	99
72) 1,2,3-Trichloropropane	12.859	75	23639	10.052	ug/l	1
77) t-1,4-Dichloro-2-butene	12.859	75	23639	28.550	ug/l #	14
79) tert-butylbenzene	13.729	119	1113	0.219	ug/l	50
82) p-Isopropyltoluene	13.729	119	1113	0.203	ug/l	82

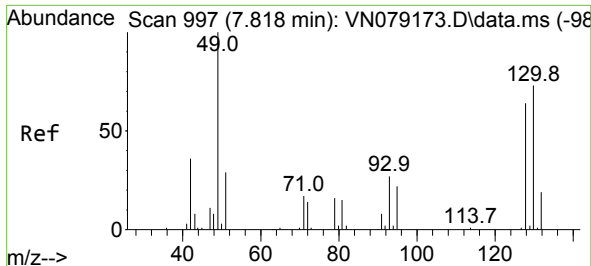
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 08 05:09:17 2023
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.824 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN079181.D

Acq: 07 Sep 2023 18:05

Instrument :

MSVOA_N

ClientSampleId :

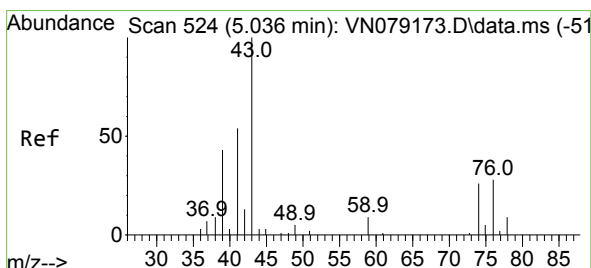
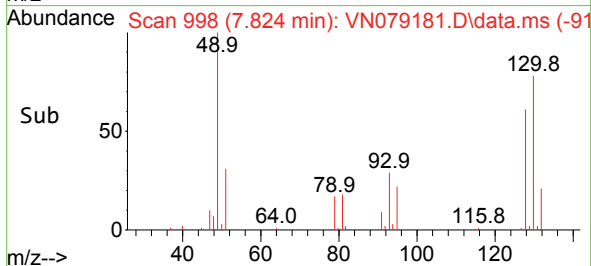
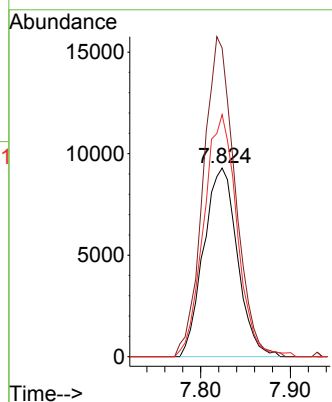
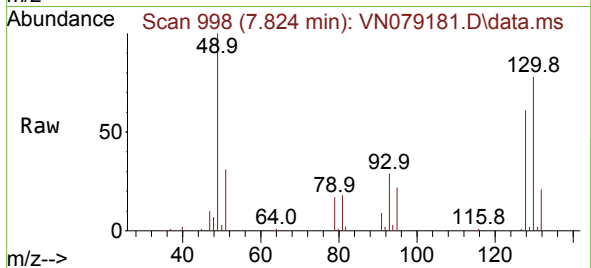
Tgt Ion:128 Resp: 24289

Ion Ratio Lower Upper

128 100

49 159.7 0.0 414.3

130 126.0 0.0 311.0



#12

Methyl Acetate

Concen: 0.434 ug/l

RT: 4.759 min Scan# 477

Delta R.T. -0.277 min

Lab File: VN079181.D

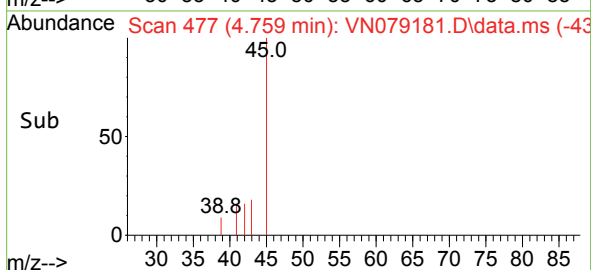
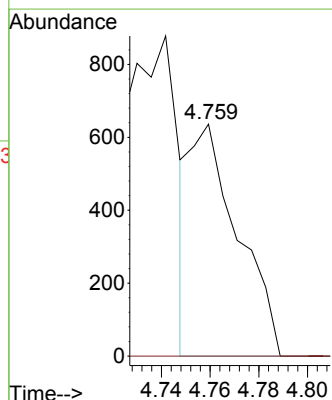
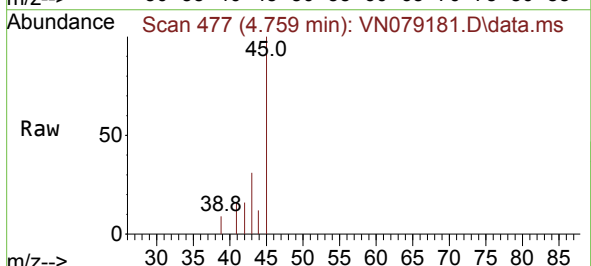
Acq: 07 Sep 2023 18:05

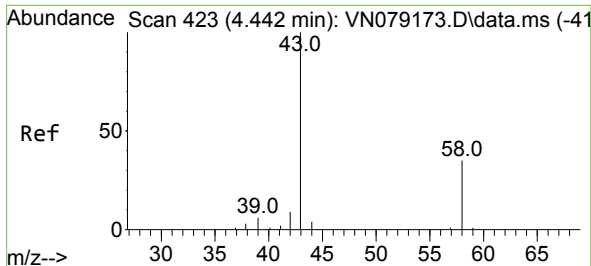
Tgt Ion: 43 Resp: 864

Ion Ratio Lower Upper

43 100

74 0.0 20.4 30.6#





#15

Acetone

Concen: 48.355 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN079181.D

Acq: 07 Sep 2023 18:05

Instrument :

MSVOA_N

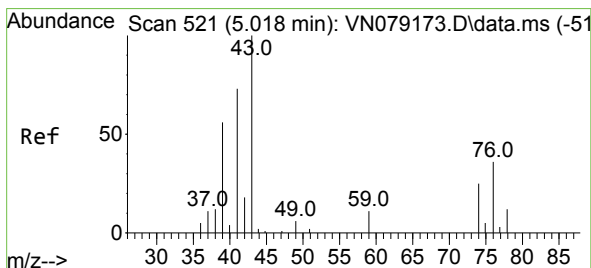
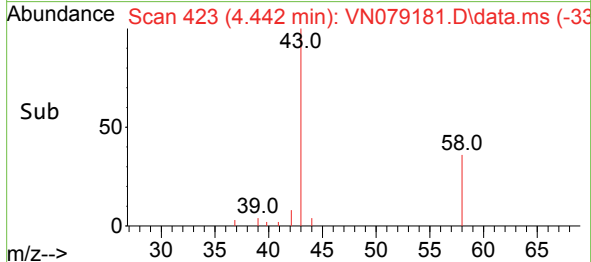
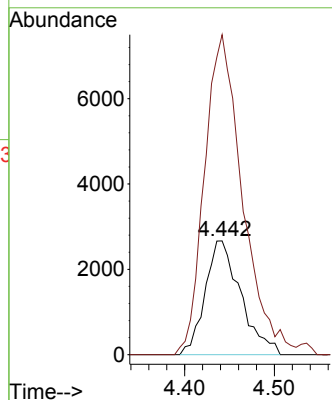
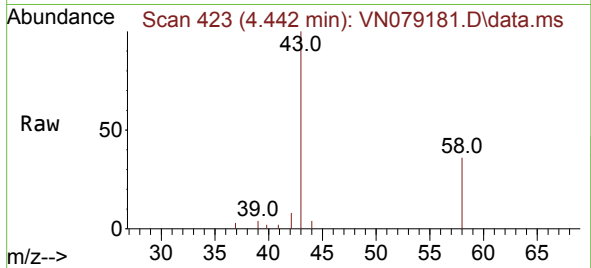
ClientSampleId :

Tgt Ion: 58 Resp: 7368

Ion Ratio Lower Upper

58 100

43 274.7 228.3 342.5



#17

Allyl chloride

Concen: 0.651 ug/l

RT: 4.748 min Scan# 475

Delta R.T. -0.270 min

Lab File: VN079181.D

Acq: 07 Sep 2023 18:05

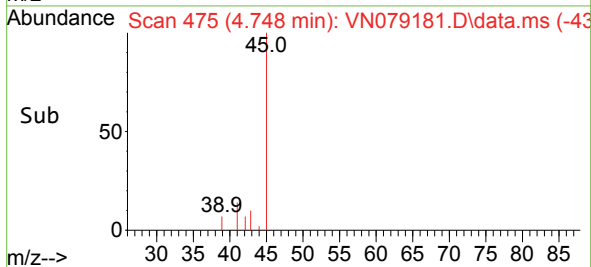
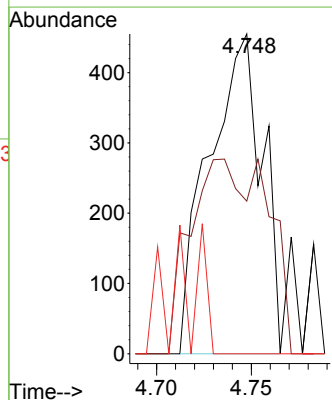
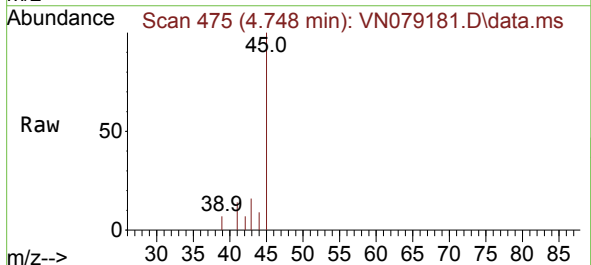
Tgt Ion: 41 Resp: 893

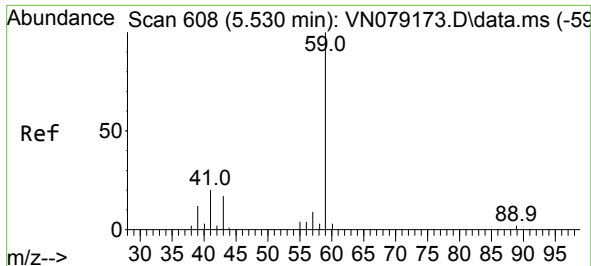
Ion Ratio Lower Upper

41 100

39 9.9 38.3 114.8#

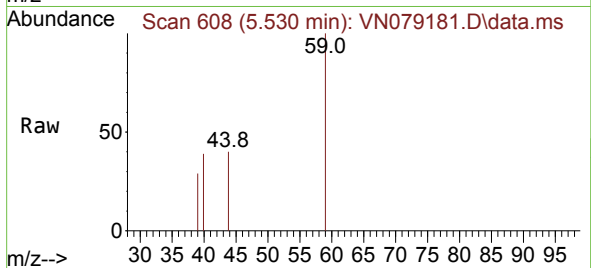
76 0.0 23.7 71.1#



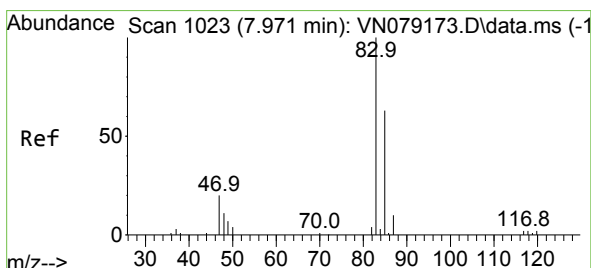
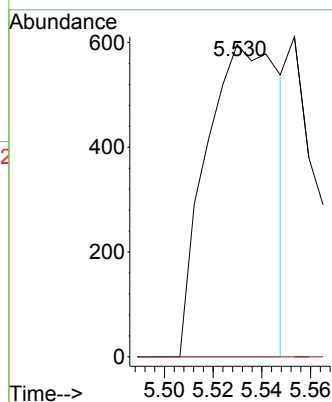
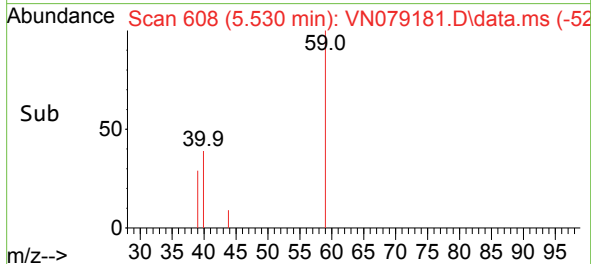


#23
tert-Butyl Alcohol
Concen: 5.501 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

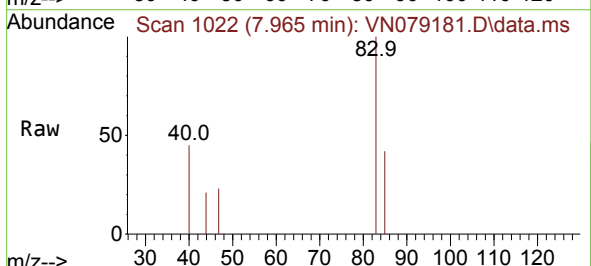
Instrument :
MSVOA_N
ClientSampleId :



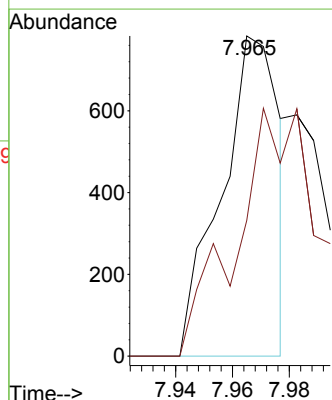
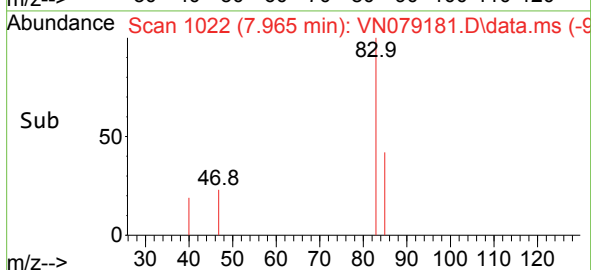
Tgt Ion: 59 Resp: 1236
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

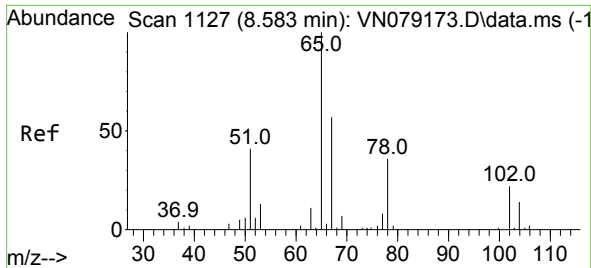


#25
Chloroform
Concen: 0.385 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.006 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05



Tgt Ion: 83 Resp: 1115
Ion Ratio Lower Upper
83 100
85 42.4 50.6 76.0#





#27

1,2-Dichloroethane-d4

Concen: 36.319 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN079181.D

Acq: 07 Sep 2023 18:05

Instrument :

MSVOA_N

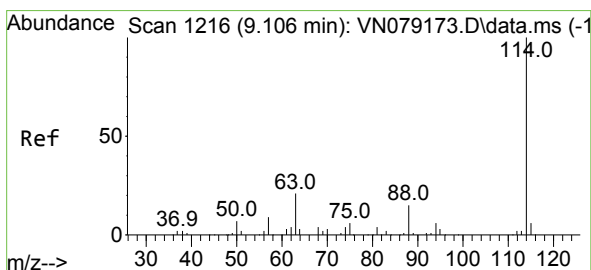
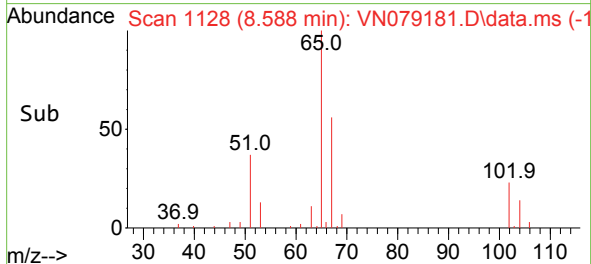
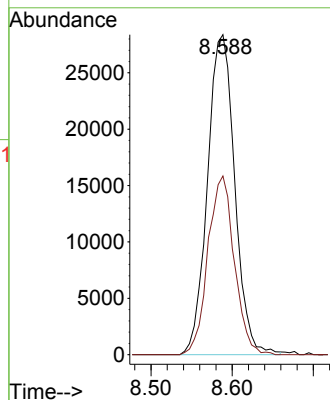
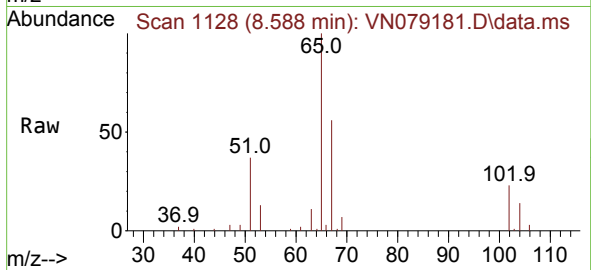
ClientSampleId :

Tgt Ion: 65 Resp: 66278

Ion Ratio Lower Upper

65 100

67 53.8 44.4 66.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079181.D

Acq: 07 Sep 2023 18:05

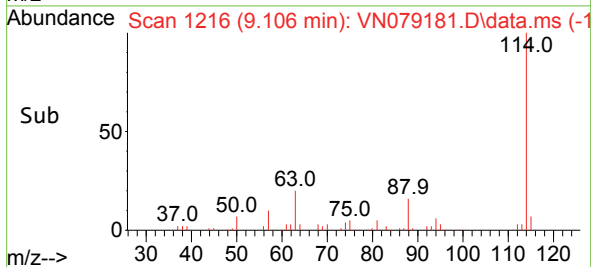
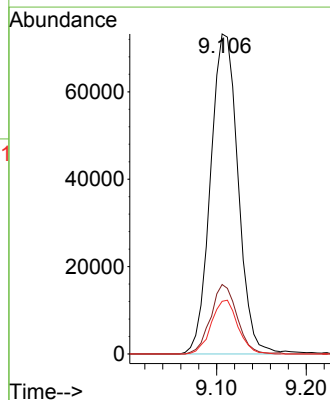
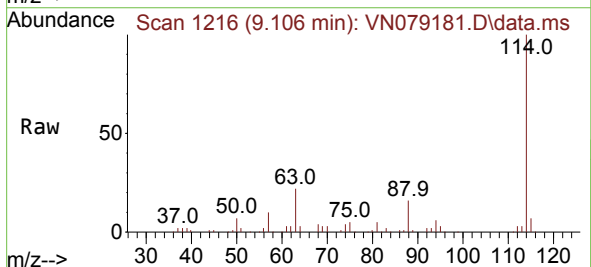
Tgt Ion: 114 Resp: 156049

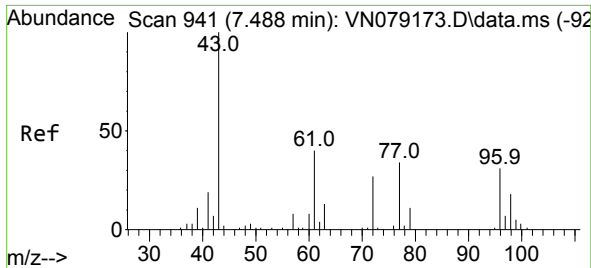
Ion Ratio Lower Upper

114 100

63 20.8 17.0 25.4

88 16.2 12.8 19.2

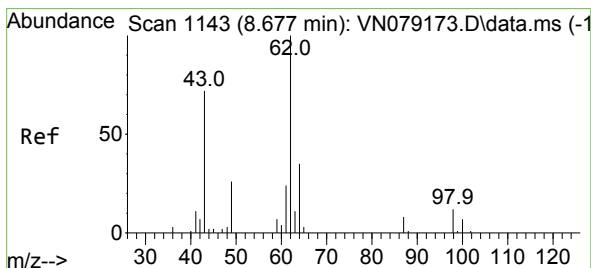
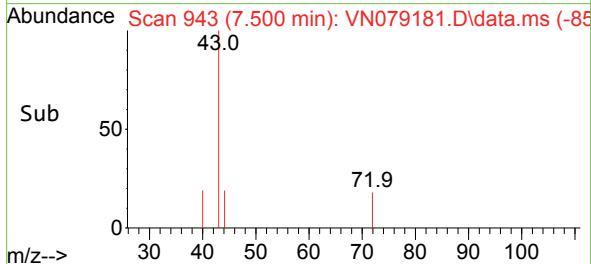
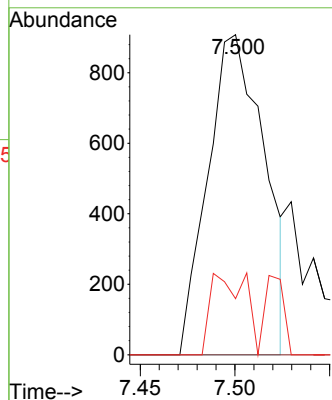
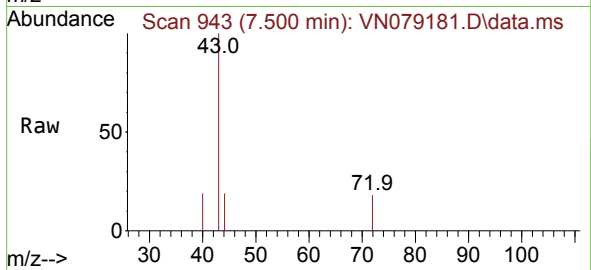




#30
2-Butanone
Concen: 1.504 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

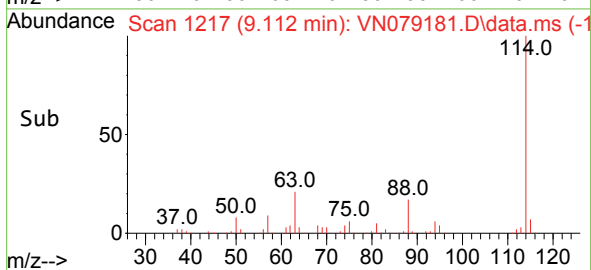
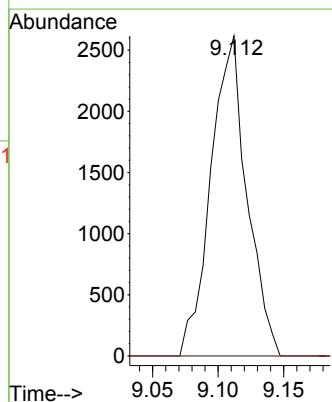
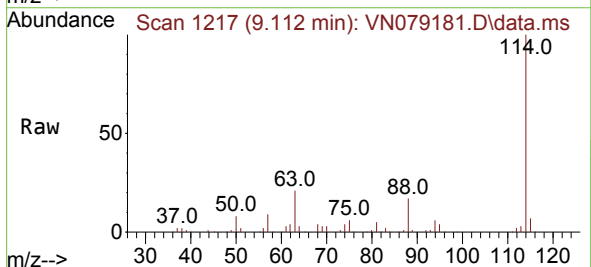
Instrument :
MSVOA_N
ClientSampleId :

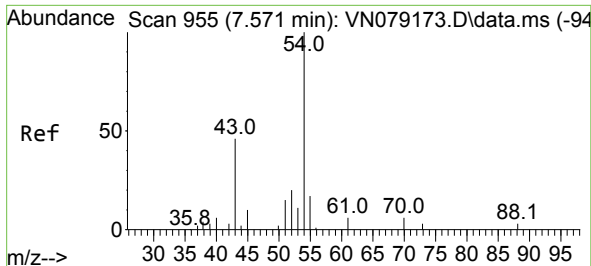
Tgt Ion: 43 Resp: 1893
Ion Ratio Lower Upper
43 100
57 0.0 6.8 10.2#
72 4.3 22.4 33.6#



#36
1,2-Dichloroethane
Concen: 1.909 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.435 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

Tgt Ion: 62 Resp: 5004
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#

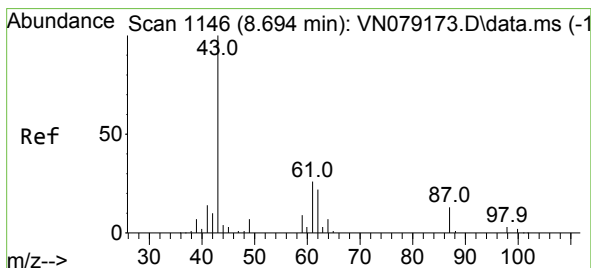
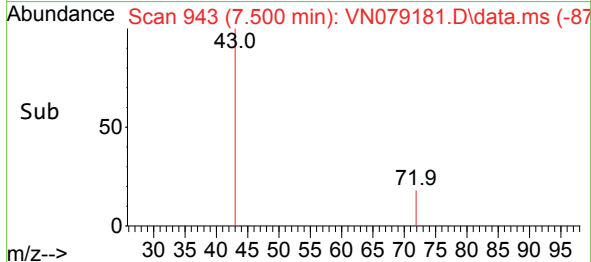
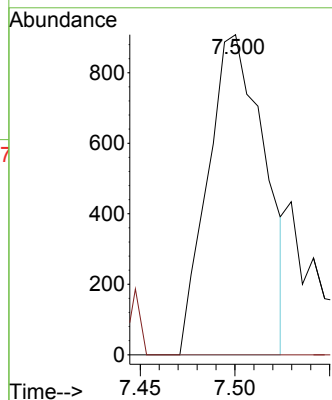
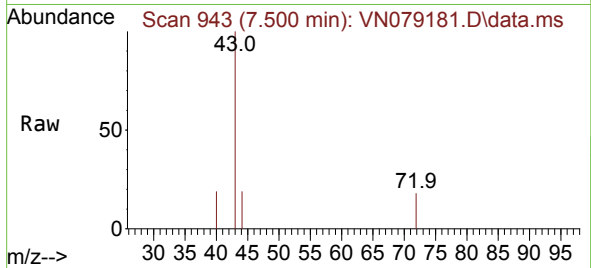




#43
Ethyl Acetate
Concen: 0.792 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.071 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

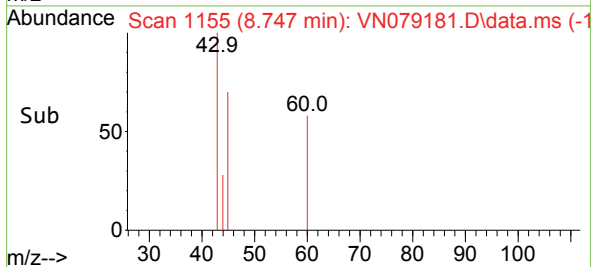
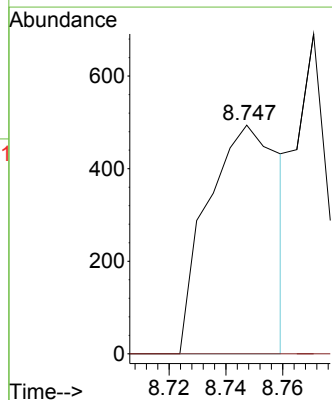
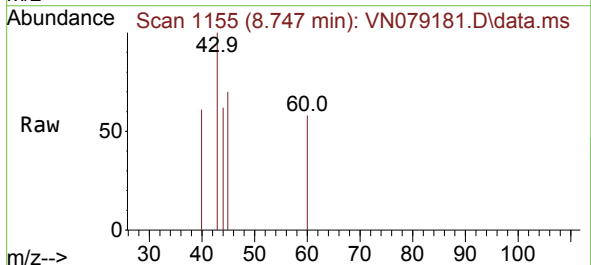
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MSVOA_N
ClientSampleId :

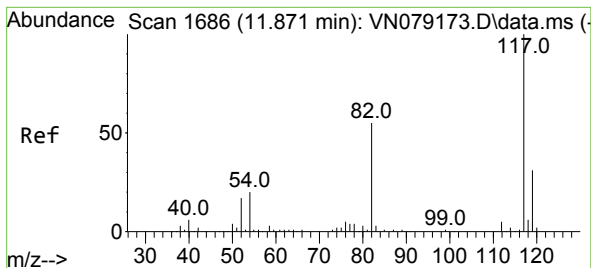
Tgt Ion: 43 Resp: 1893
Ion Ratio Lower Upper
43 100
45 0.0 11.1 16.7#



#44
Isopropyl Acetate
Concen: 0.201 ug/l
RT: 8.747 min Scan# 1155
Delta R.T. 0.053 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

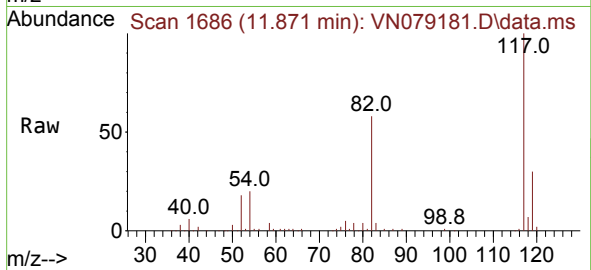
Tgt Ion: 43 Resp: 866
Ion Ratio Lower Upper
43 100
61 132.6 22.6 33.8#



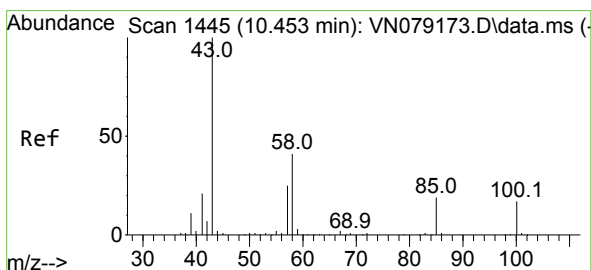
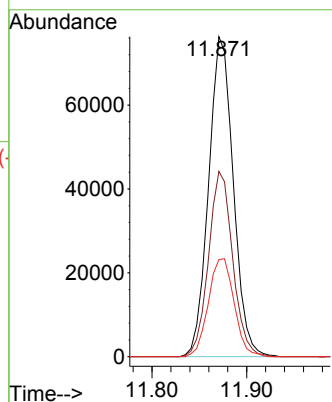
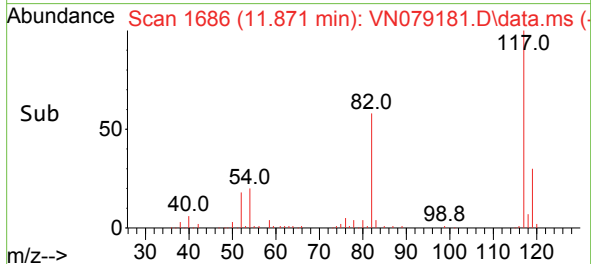


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

Instrument :
MSVOA_N
ClientSampleId :

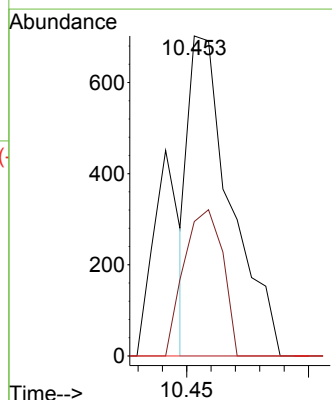
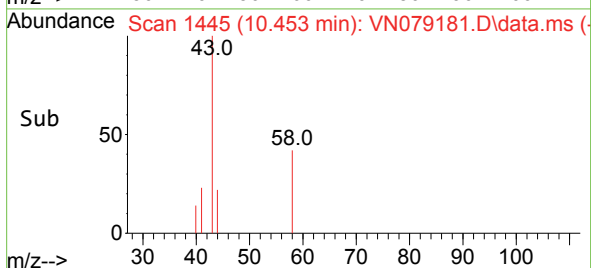
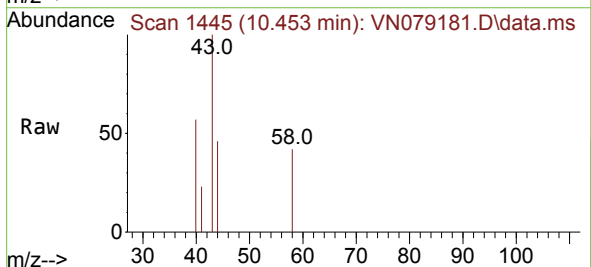


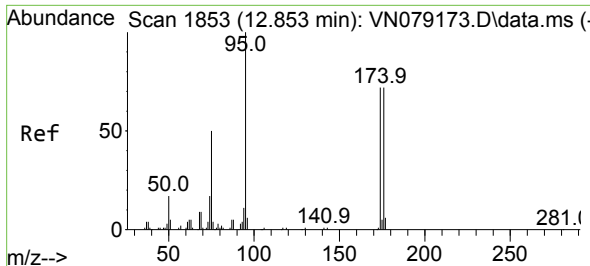
Tgt Ion:117 Resp: 138172
Ion Ratio Lower Upper
117 100
82 56.7 44.7 67.1
119 31.9 24.9 37.3



#58
4-Methyl-2-Pentanone
Concen: 0.332 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

Tgt Ion: 43 Resp: 841
Ion Ratio Lower Upper
43 100
58 42.4 33.6 50.4
85 0.0 15.0 22.4#

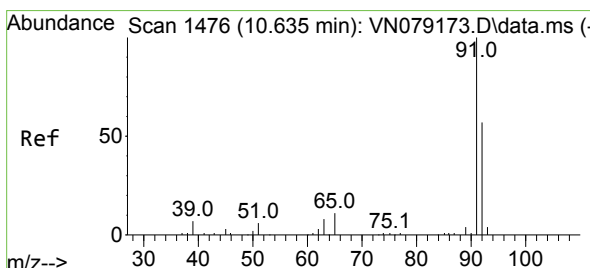
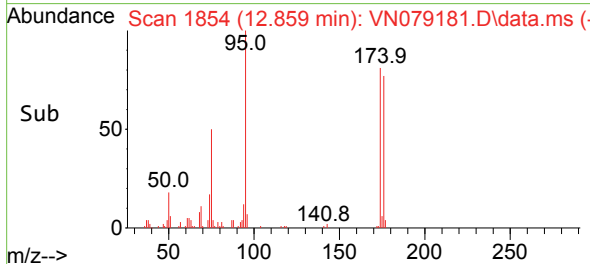
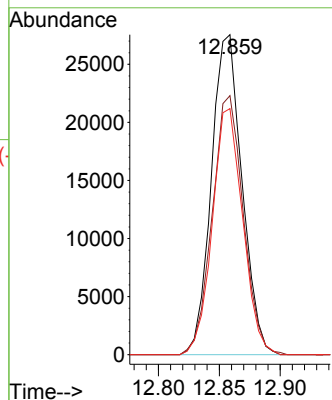
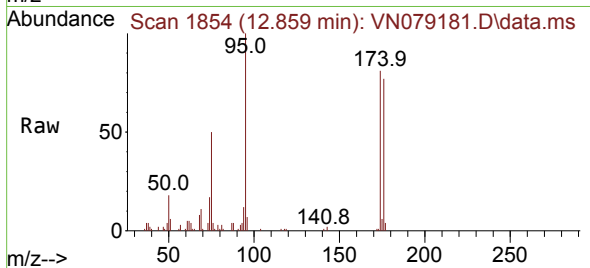




#60
4-Bromofluorobenzene
Concen: 23.699 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

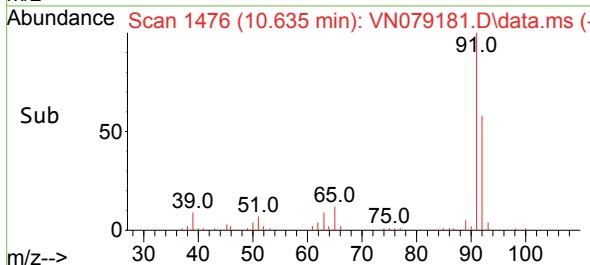
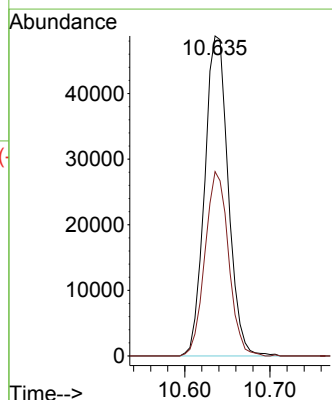
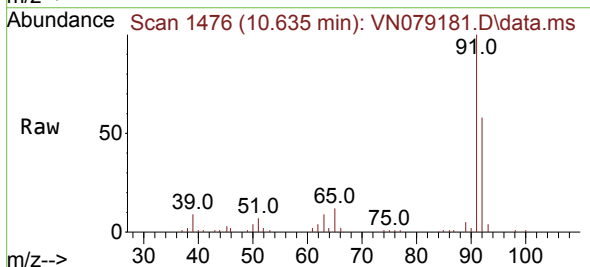
Instrument :
MSVOA_N
ClientSampleId :

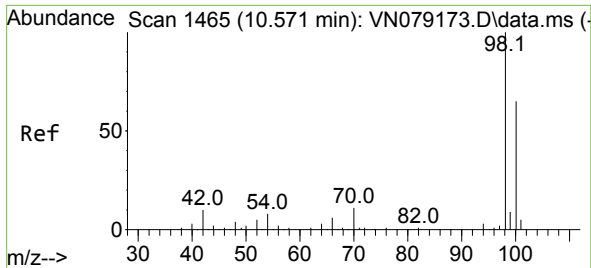
Tgt Ion: 95 Resp: 48249
Ion Ratio Lower Upper
95 100
174 81.9 59.5 89.3
176 76.3 59.1 88.7



#62
Toluene
Concen: 11.645 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

Tgt Ion: 91 Resp: 93682
Ion Ratio Lower Upper
91 100
92 57.6 45.7 68.5

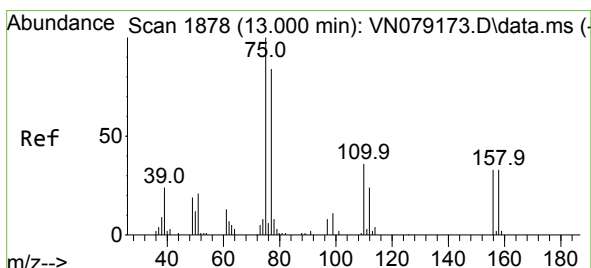
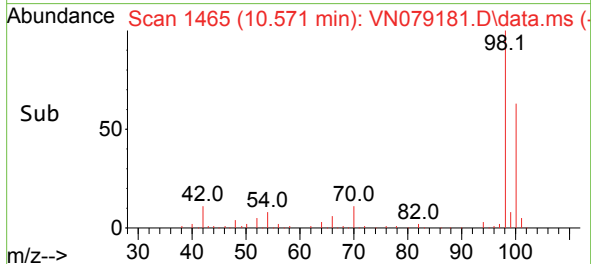
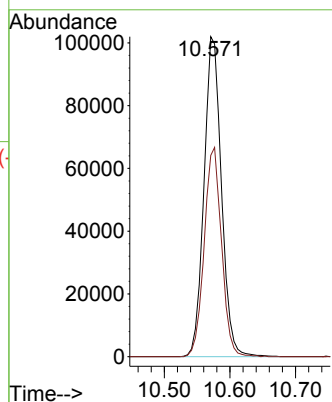
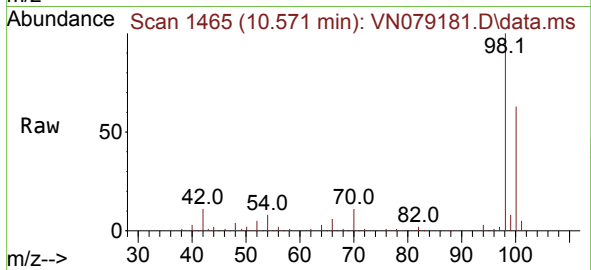




#63
Toluene-d8
Concen: 29.318 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

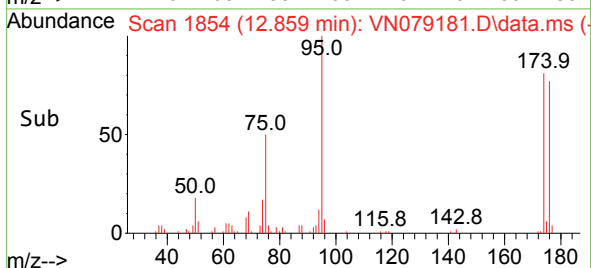
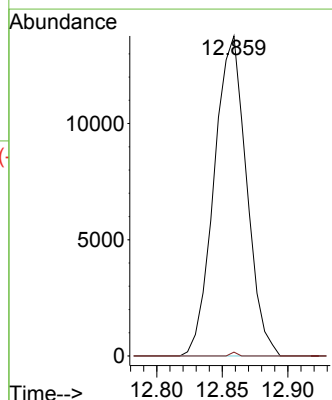
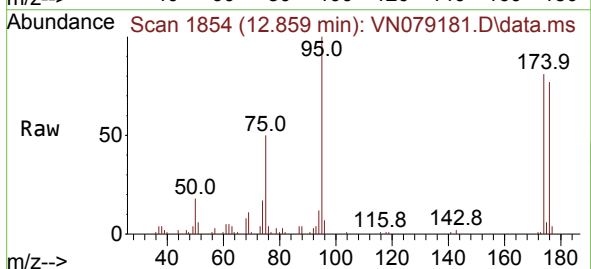
Instrument :
MSVOA_N
ClientSampleId :

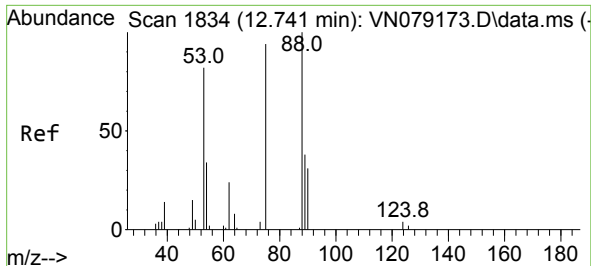
Tgt Ion: 98 Resp: 189312
Ion Ratio Lower Upper
98 100
100 64.8 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 10.052 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN079181.D
Acq: 07 Sep 2023 18:05

Tgt Ion: 75 Resp: 23639
Ion Ratio Lower Upper
75 100
77 0.9 0.0 252.2





#77

t-1,4-Dichloro-2-butene

Concen: 28.550 ug/l

RT: 12.859 min Scan# 11

Delta R.T. 0.118 min

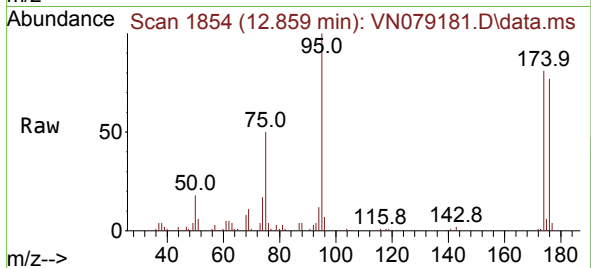
Lab File: VN079181.D

Acq: 07 Sep 2023 18:05

Instrument :

MSVOA_N

ClientSampleId :



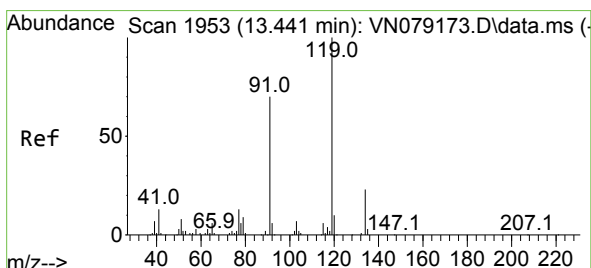
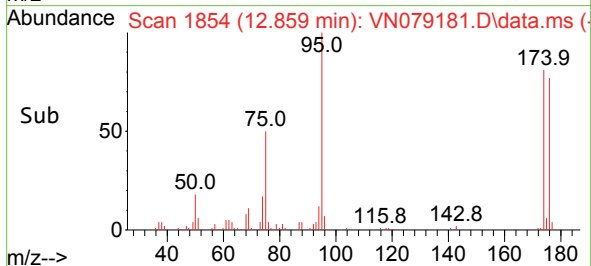
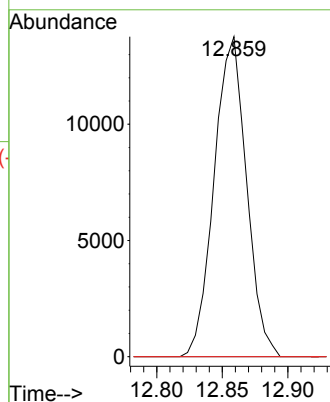
Tgt Ion: 75 Resp: 23639

Ion Ratio Lower Upper

75 100

53 0.0 44.1 132.4#

89 0.0 22.4 67.3#



#79

tert-butylbenzene

Concen: 0.219 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.288 min

Lab File: VN079181.D

Acq: 07 Sep 2023 18:05

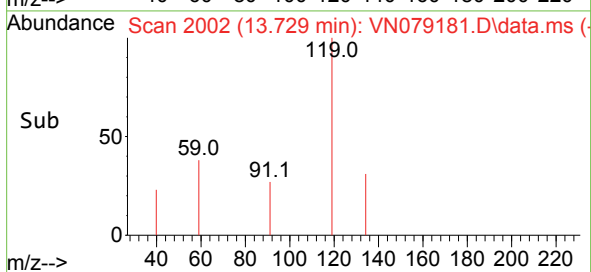
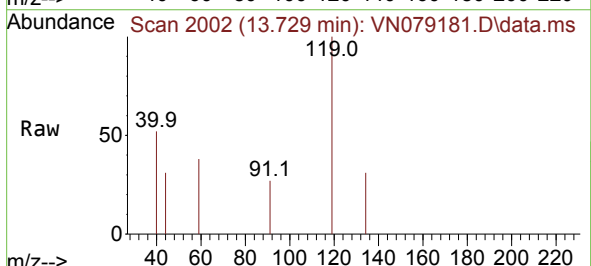
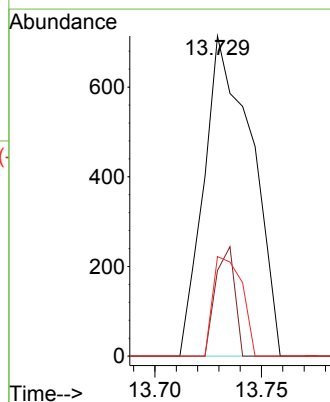
Tgt Ion: 119 Resp: 1113

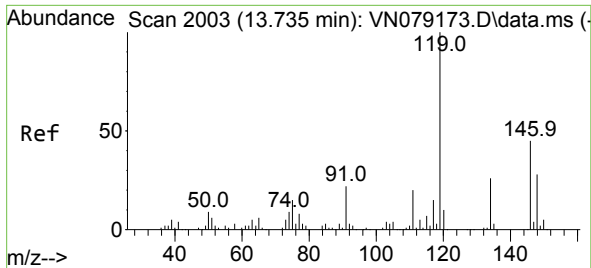
Ion Ratio Lower Upper

119 100

91 13.8 0.0 130.8

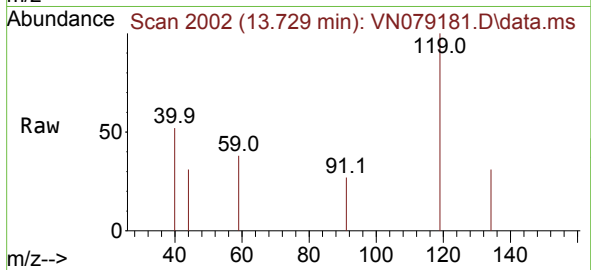
134 18.9 0.0 48.8





#82
 p-Isopropyltoluene
 Concen: 0.203 ug/l
 RT: 13.729 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN079181.D
 Acq: 07 Sep 2023 18:05

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
119	100		
134	18.9	0.0	53.8
91	13.8	0.0	48.0

