

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090823\
 Data File : VN079203.D
 Acq On : 08 Sep 2023 17:30
 Operator : JC\MD
 Sample : 04376-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 08 23:18:05 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)

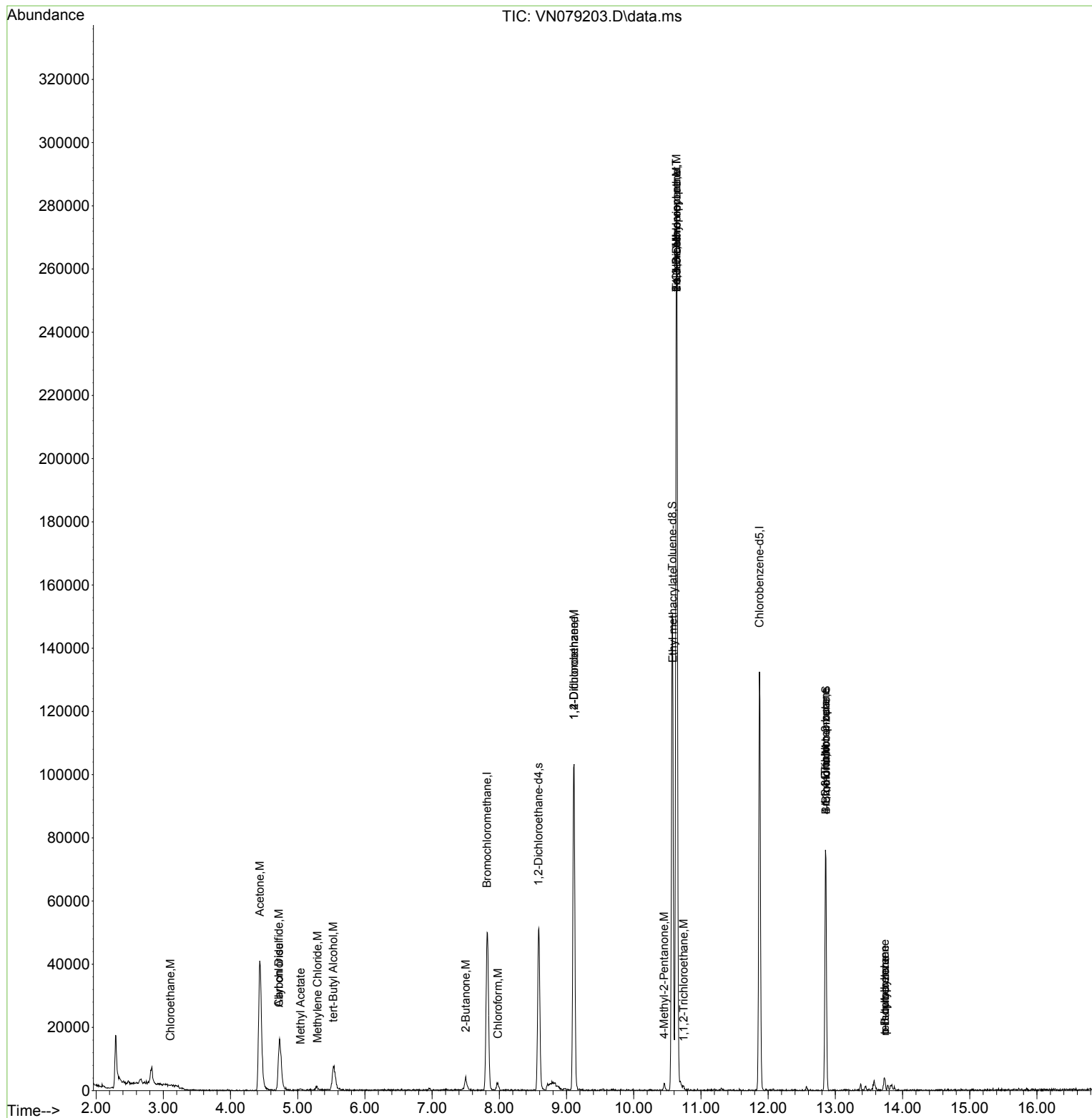
Internal Standards						
1) Bromochloromethane	7.818	128	18813	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	90578	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	77770	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	43698	30.916	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.067%
60) 4-Bromofluorobenzene	12.859	95	25701	22.429	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	74.767%
63) Toluene-d8	10.577	98	108006	29.717	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.067%
Target Compounds						
					Qvalue	
6) Chloroethane	3.106	64	150	0.235	ug/l #	50
12) Methyl Acetate	5.042	43	479	0.311	ug/l #	50
15) Acetone	4.436	58	25083	212.533	ug/l	80
16) Carbon Disulfide	4.718	76	501	0.256	ug/l #	76
17) Allyl chloride	4.718	41	1073	1.009	ug/l	98
18) Methylene Chloride	5.295	84	467	0.526	ug/l #	44
23) tert-Butyl Alcohol	5.530	59	13614	78.223	ug/l #	100
25) Chloroform	7.977	83	1251	0.558	ug/l	92
30) 2-Butanone	7.500	43	6677	9.141	ug/l #	87
36) 1,2-Dichloroethane	9.112	62	3234	2.125	ug/l #	73
48) t-1,3-Dichloropropene	10.635	75	1517	0.896	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	1517	0.859	ug/l #	1
50) 1,1,2-Trichloroethane	10.741	97	819	0.744	ug/l #	15
51) Ethyl methacrylate	10.582	69	352	0.207	ug/l #	72
55) 2-Chloroethyl vinyl ether	10.635	63	13540	22.408	ug/l #	1
56) Bromoform	12.859	173	219	0.272	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1779	1.247	ug/l #	72
62) Toluene	10.635	91	222854	49.215	ug/l	100
72) 1,2,3-Trichloropropane	12.853	75	13838	10.454	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	13838	29.694	ug/l #	14
79) tert-butylbenzene	13.735	119	2637	0.924	ug/l	60
82) p-Isopropyltoluene	13.735	119	2637	0.855	ug/l	96
85) n-Butylbenzene	13.741	91	663	0.282	ug/l #	1

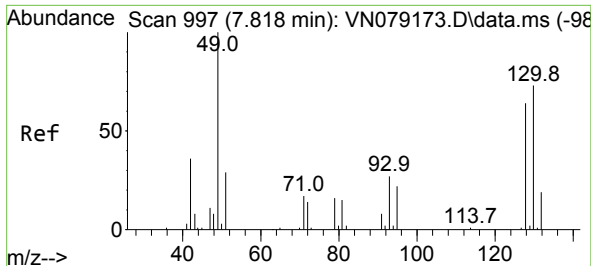
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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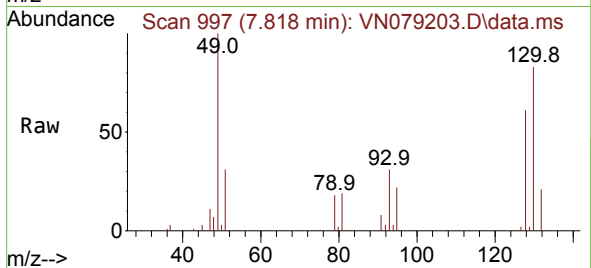
Quant Time: Sep 08 23:18:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
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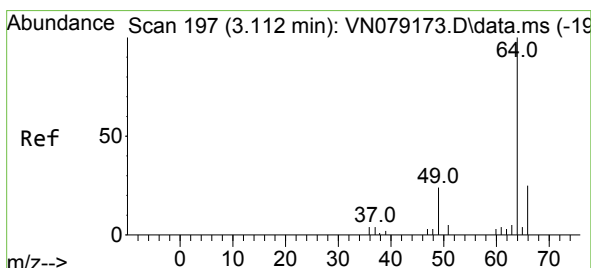
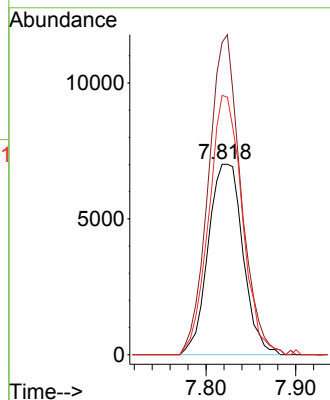
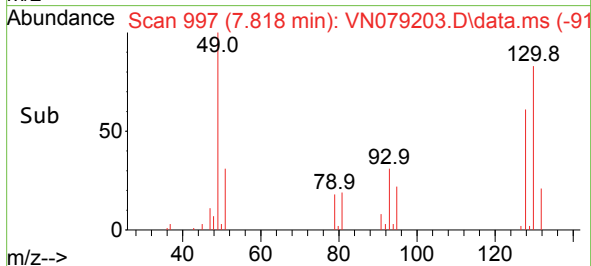


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

Instrument :
MSVOA_N
ClientSampleId :

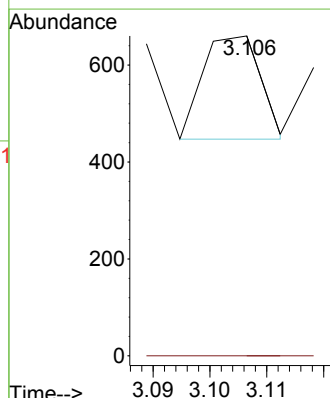
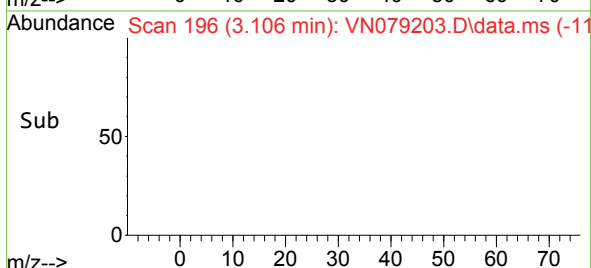
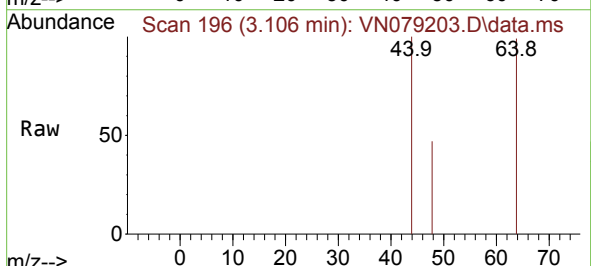


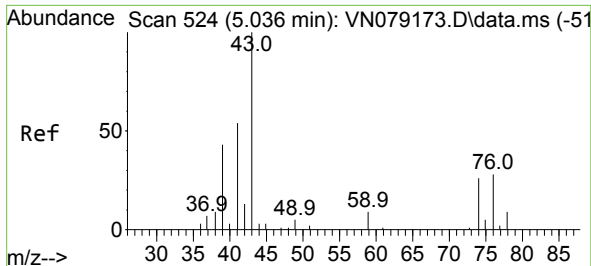
Tgt Ion:128 Resp: 18813
Ion Ratio Lower Upper
128 100
49 156.7 0.0 414.3
130 131.0 0.0 311.0



#6
Chloroethane
Concen: 0.235 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.006 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

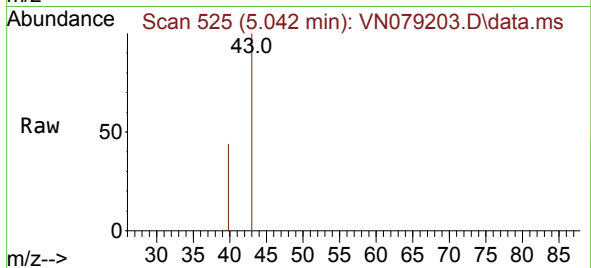
Tgt Ion: 64 Resp: 150
Ion Ratio Lower Upper
64 100
66 0.0 20.1 30.1#



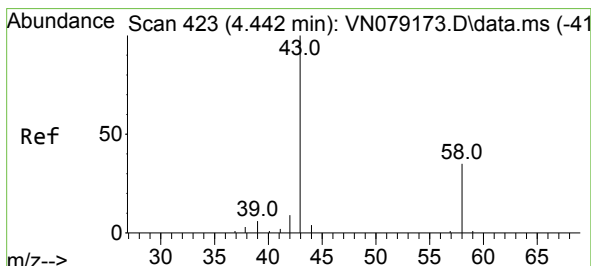
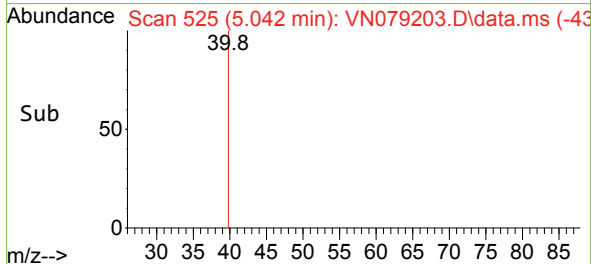
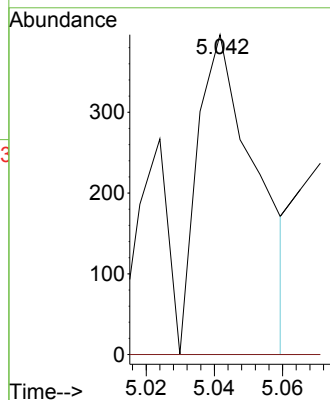


#12
Methyl Acetate
Concen: 0.311 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

Instrument :
MSVOA_N
ClientSampleId :

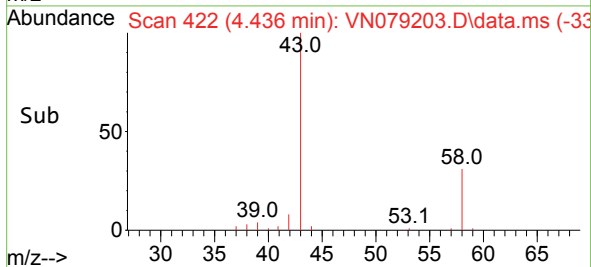
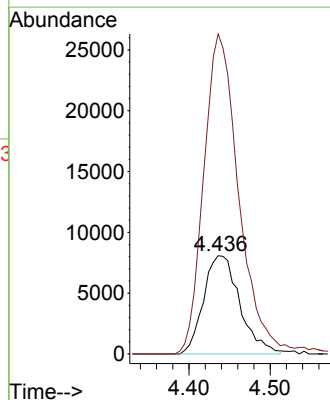
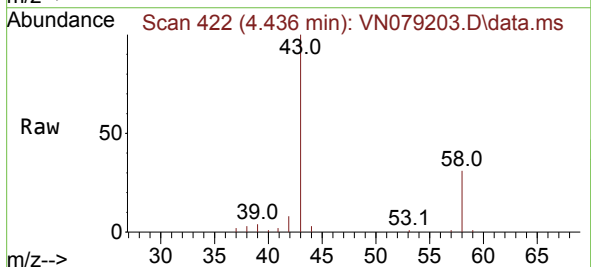


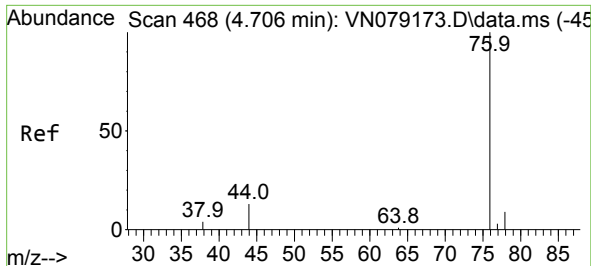
Tgt Ion: 43 Resp: 479
Ion Ratio Lower Upper
43 100
74 0.0 20.4 30.6#



#15
Acetone
Concen: 212.533 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

Tgt Ion: 58 Resp: 25083
Ion Ratio Lower Upper
58 100
43 322.7 228.3 342.5

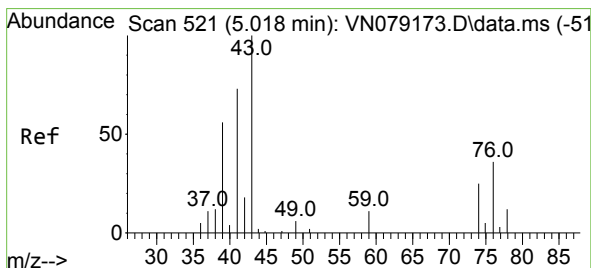
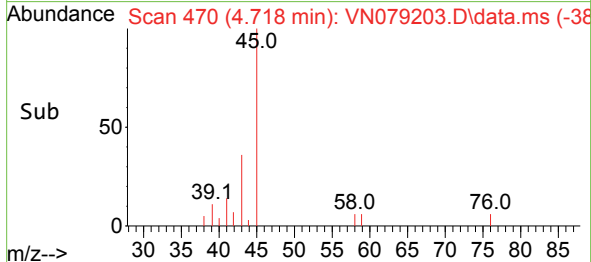
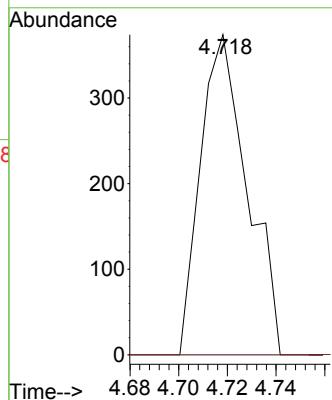
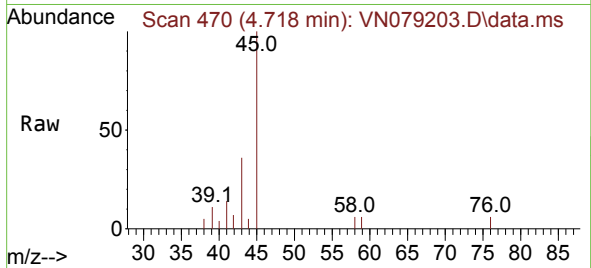




#16
Carbon Disulfide
Concen: 0.256 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

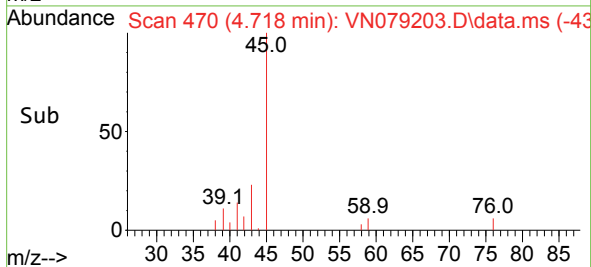
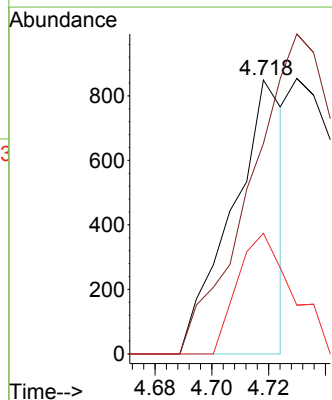
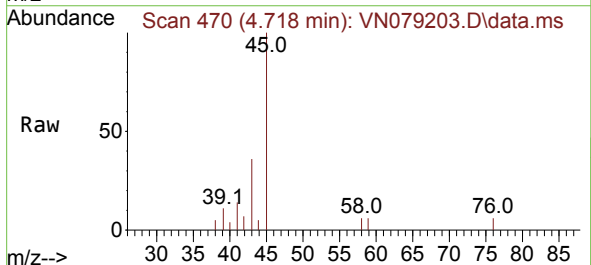
Instrument :
MSVOA_N
ClientSampleId :

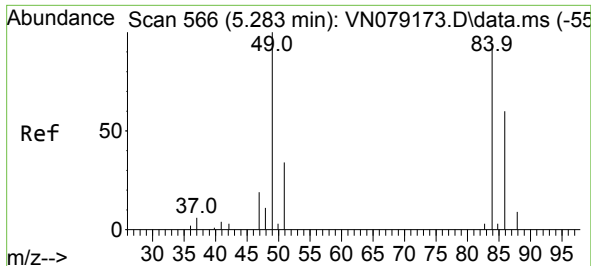
Tgt Ion: 76 Resp: 501
Ion Ratio Lower Upper
76 100
78 0.0 6.9 10.3#



#17
Allyl chloride
Concen: 1.009 ug/l
RT: 4.718 min Scan# 470
Delta R.T. -0.300 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

Tgt Ion: 41 Resp: 1073
Ion Ratio Lower Upper
41 100
39 76.8 38.3 114.8
76 44.1 23.7 71.1





#18

Methylene Chloride

Concen: 0.526 ug/l

RT: 5.295 min Scan# 5

Delta R.T. 0.012 min

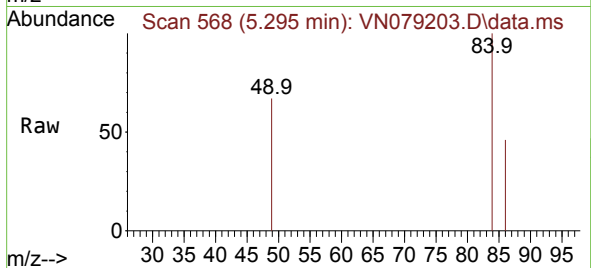
Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 467

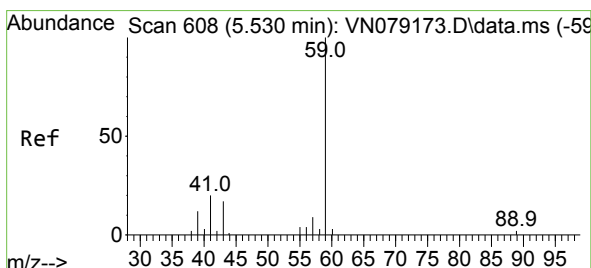
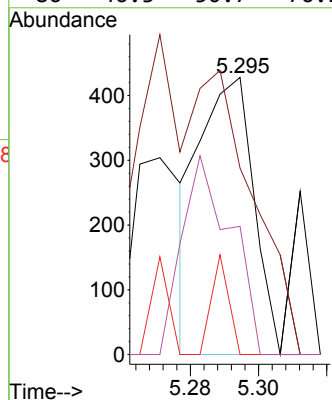
Ion Ratio Lower Upper

84 100

49 31.3 86.9 130.3#

51 0.0 28.6 43.0#

86 46.3 50.7 76.1#



#23

tert-Butyl Alcohol

Concen: 78.223 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.000 min

Lab File: VN079203.D

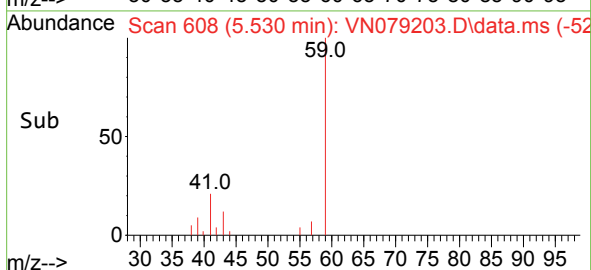
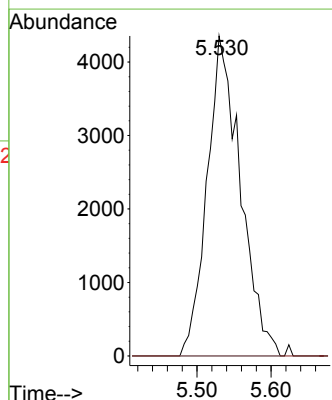
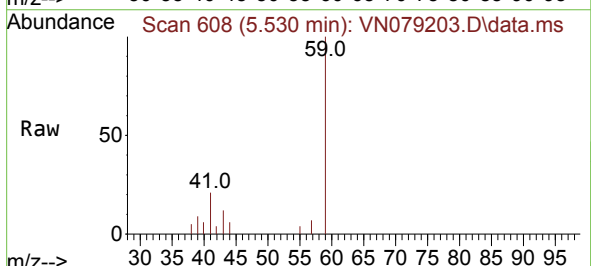
Acq: 08 Sep 2023 17:30

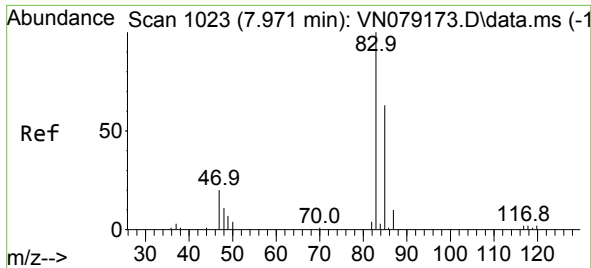
Tgt Ion: 59 Resp: 13614

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

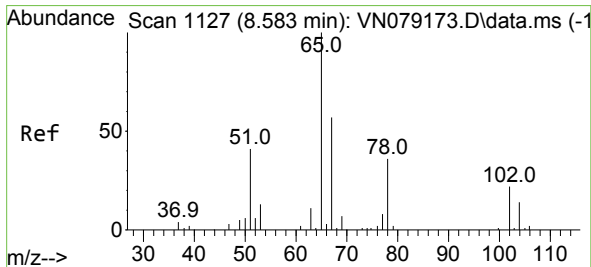
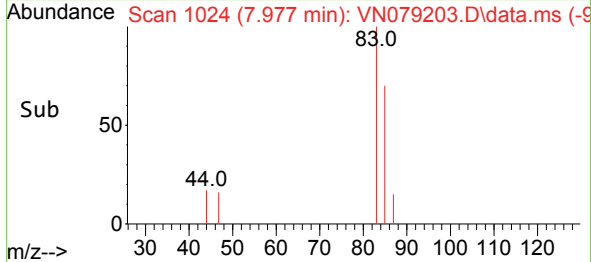
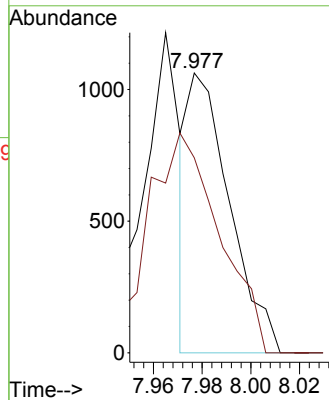
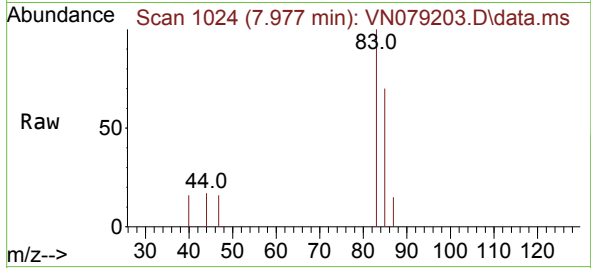




#25
Chloroform
Concen: 0.558 ug/l
RT: 7.977 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

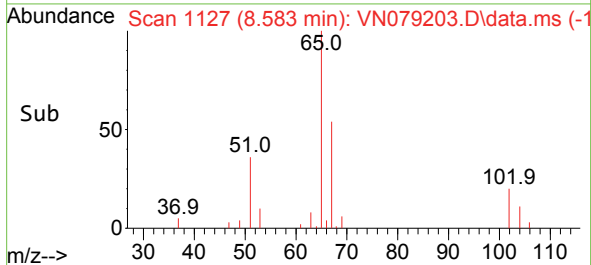
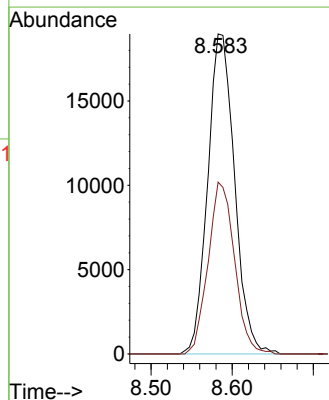
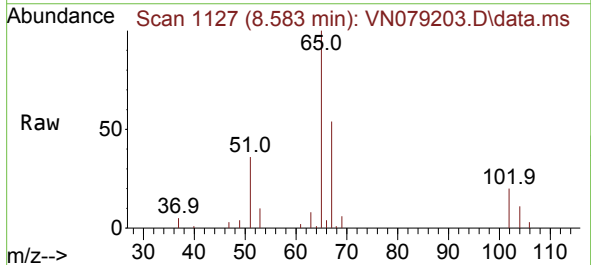
Instrument :
MSVOA_N
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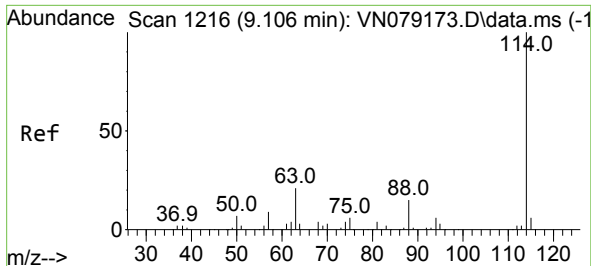
Tgt Ion: 83 Resp: 1251
Ion Ratio Lower Upper
83 100
85 69.7 50.6 76.0



#27
1,2-Dichloroethane-d4
Concen: 30.916 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

Tgt Ion: 65 Resp: 43698
Ion Ratio Lower Upper
65 100
67 52.7 44.4 66.6

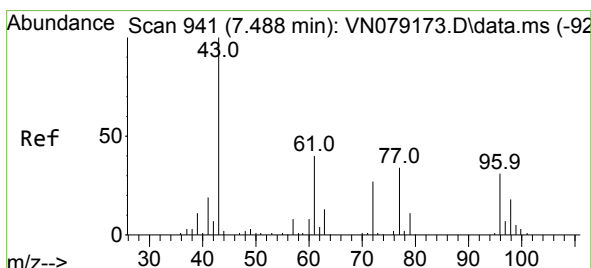
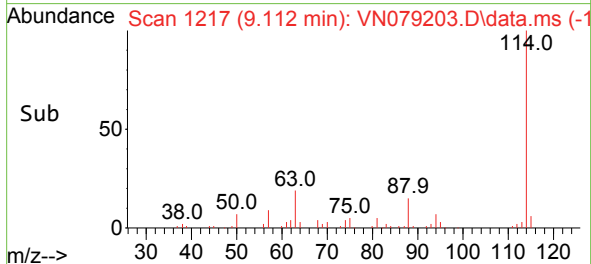
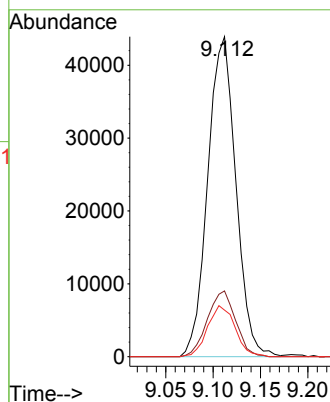
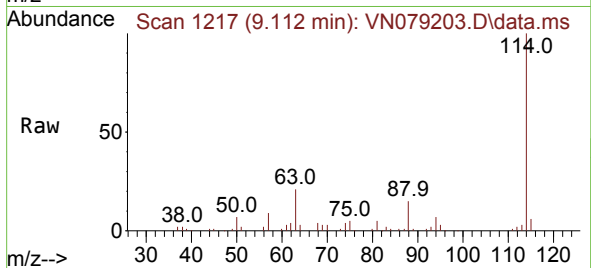




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.112 min Scan# 114
 Delta R.T. 0.006 min
 Lab File: VN079203.D
 Acq: 08 Sep 2023 17:30

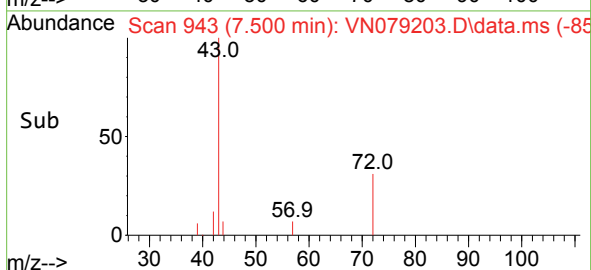
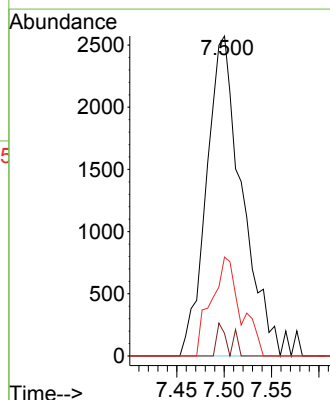
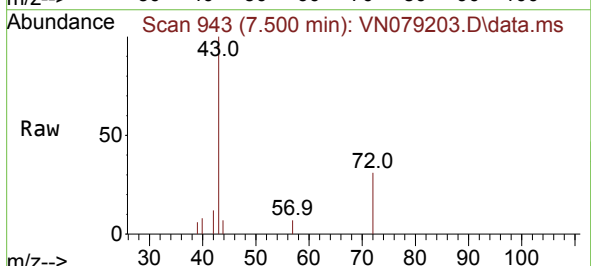
Instrument :
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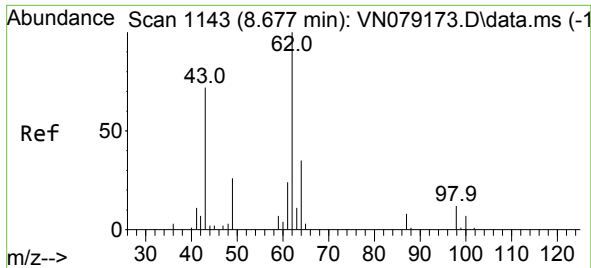
Tgt Ion:114 Resp: 90578
 Ion Ratio Lower Upper
 114 100
 63 20.6 17.0 25.4
 88 15.7 12.8 19.2



#30
 2-Butanone
 Concen: 9.141 ug/l
 RT: 7.500 min Scan# 943
 Delta R.T. 0.012 min
 Lab File: VN079203.D
 Acq: 08 Sep 2023 17:30

Tgt Ion: 43 Resp: 6677
 Ion Ratio Lower Upper
 43 100
 57 2.4 6.8 10.2#
 72 21.6 22.4 33.6#

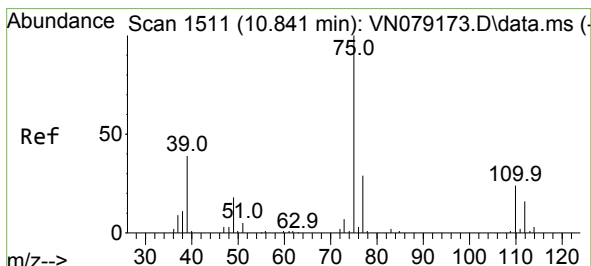
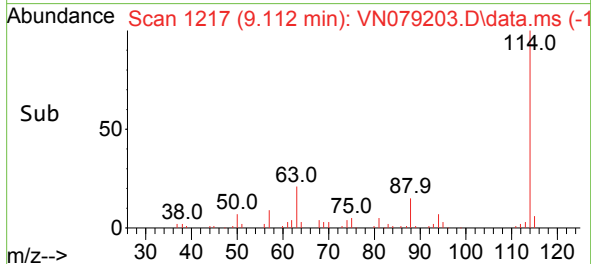
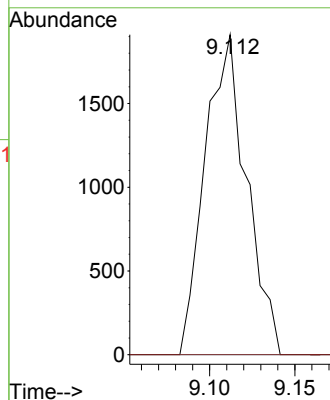
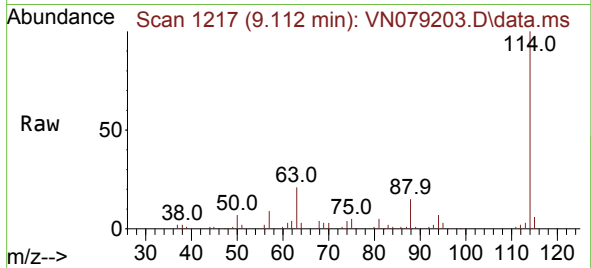




#36
1,2-Dichloroethane
Concen: 2.125 ug/l
RT: 9.112 min Scan# 1143
Delta R.T. 0.435 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

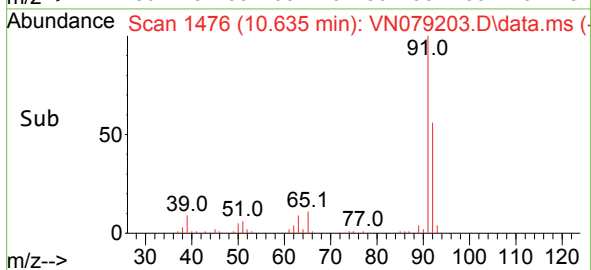
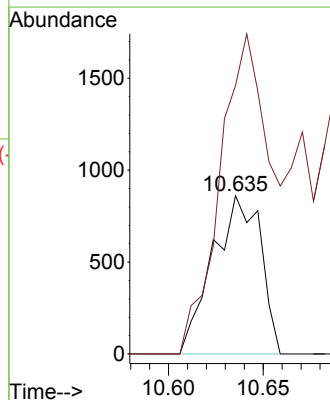
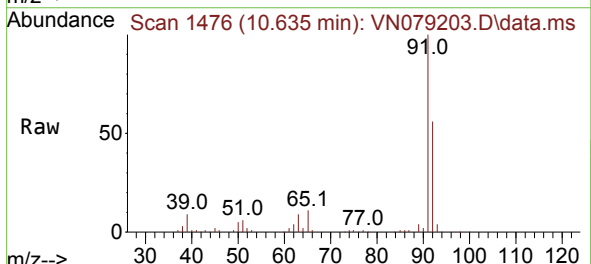
Instrument :
MSVOA_N
ClientSampleId :

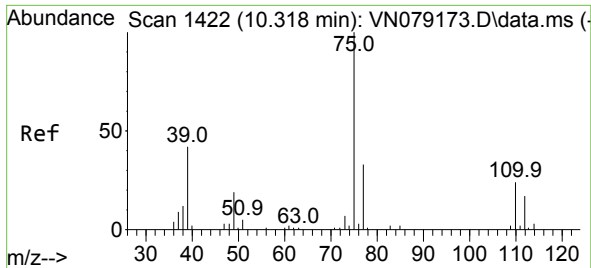
Tgt Ion: 62 Resp: 3234
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#



#48
t-1,3-Dichloropropene
Concen: 0.896 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

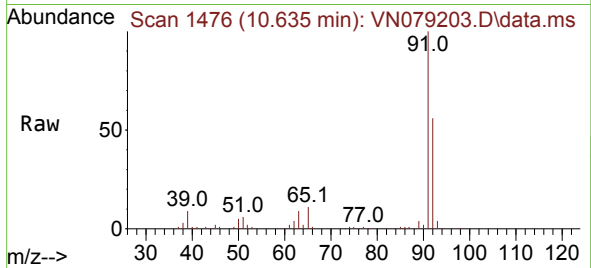
Tgt Ion: 75 Resp: 1517
Ion Ratio Lower Upper
75 100
77 169.7 22.9 34.3#



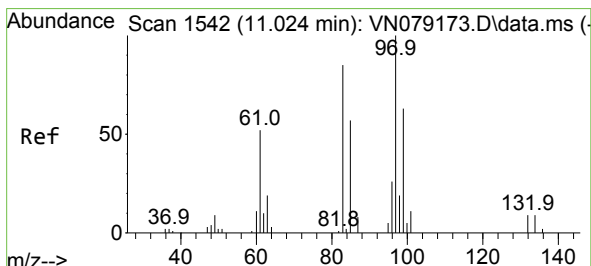
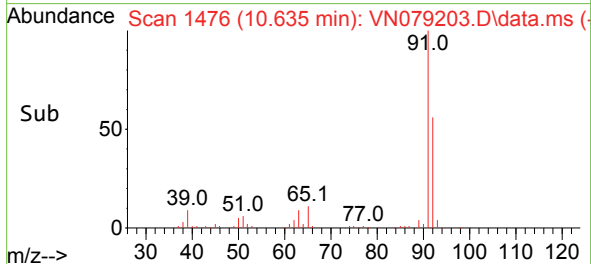
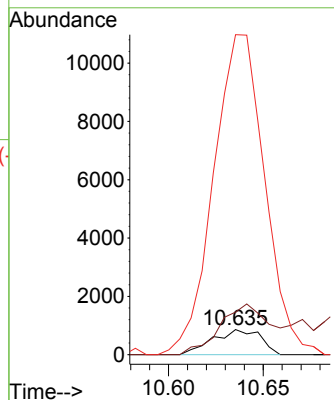


#49
 cis-1,3-Dichloropropene
 Concen: 0.859 ug/l
 RT: 10.635 min Scan# 1476
 Delta R.T. 0.317 min
 Lab File: VN079203.D
 Acq: 08 Sep 2023 17:30

Instrument :
 MSVOA_N
 ClientSampleId :

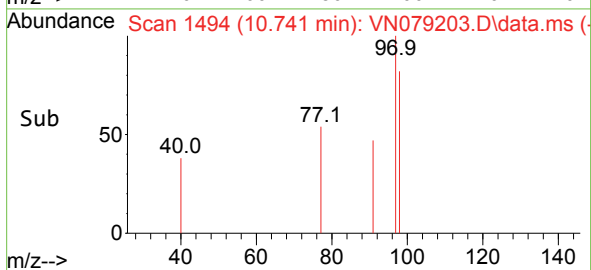
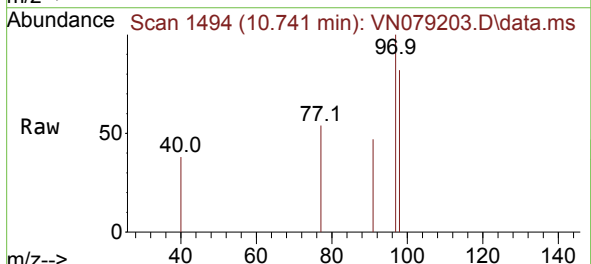
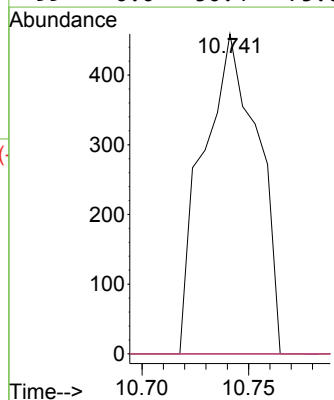


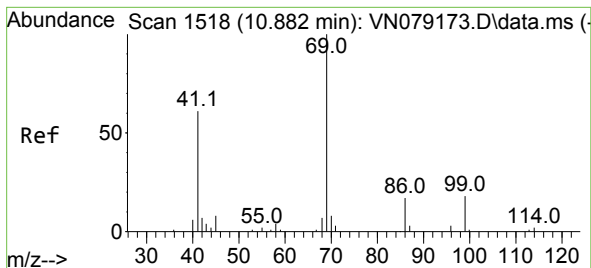
Tgt Ion: 75 Resp: 1517
 Ion Ratio Lower Upper
 75 100
 77 169.7 26.2 39.2#
 39 1211.3 33.8 50.8#



#50
 1,1,2-Trichloroethane
 Concen: 0.744 ug/l
 RT: 10.741 min Scan# 1494
 Delta R.T. -0.283 min
 Lab File: VN079203.D
 Acq: 08 Sep 2023 17:30

Tgt Ion: 97 Resp: 819
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.9 103.3#
 85 0.0 45.3 67.9#
 99 0.0 50.4 75.6#





#51

Ethyl methacrylate

Concen: 0.207 ug/l

RT: 10.582 min Scan# 1467

Delta R.T. -0.300 min

Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

Instrument :

MSVOA_N

ClientSampleId :

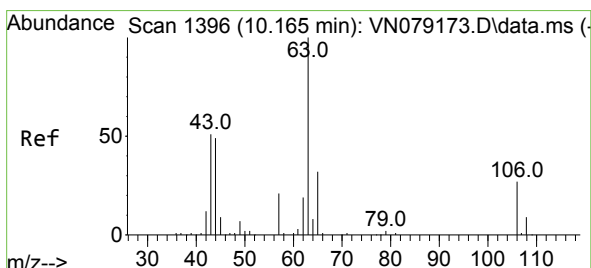
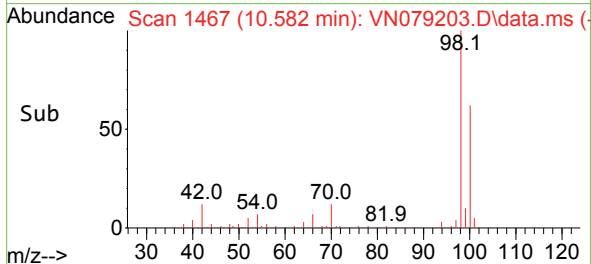
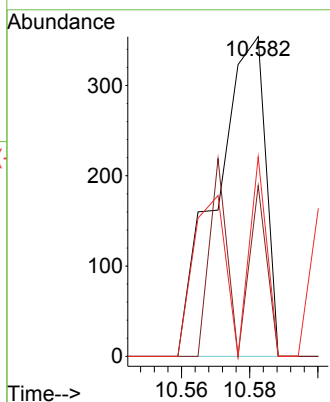
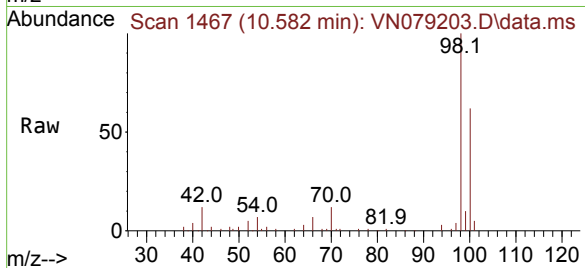
Tgt Ion: 69 Resp: 352

Ion Ratio Lower Upper

69 100

41 53.4 30.3 90.9

39 62.4 13.4 40.1#



#55

2-Chloroethyl vinyl ether

Concen: 22.408 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.470 min

Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

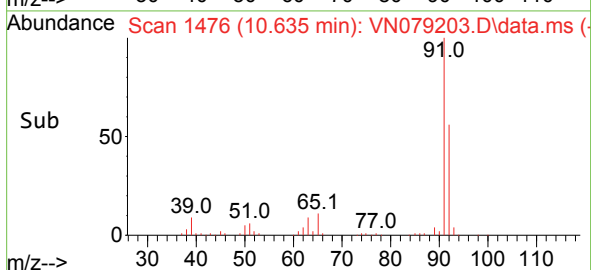
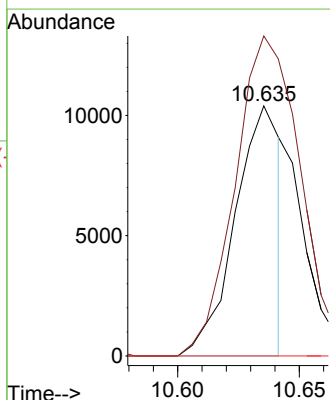
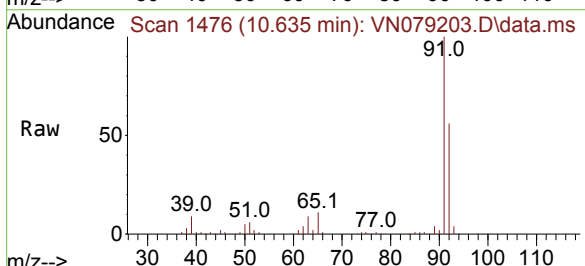
Tgt Ion: 63 Resp: 13540

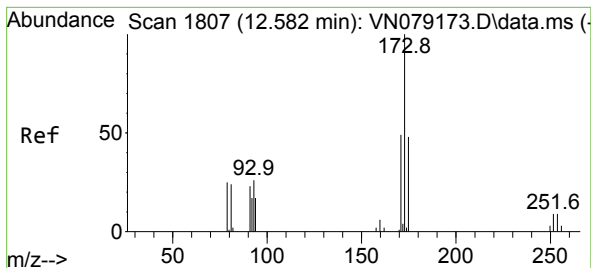
Ion Ratio Lower Upper

63 100

65 130.5 25.7 38.5#

106 0.0 21.9 32.9#





#56

Bromoform

Concen: 0.272 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.277 min

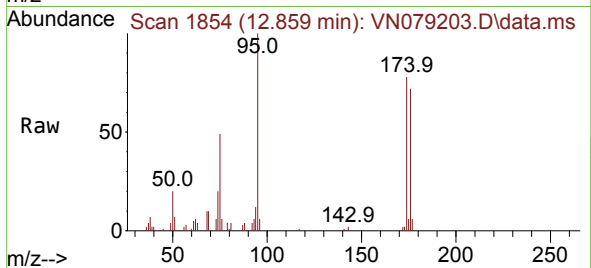
Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

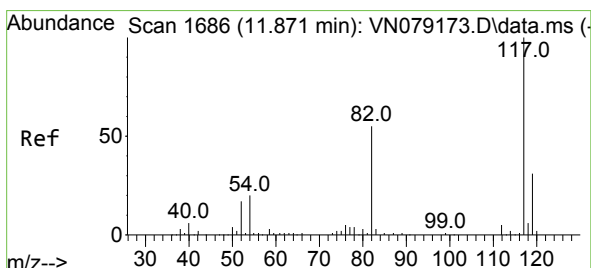
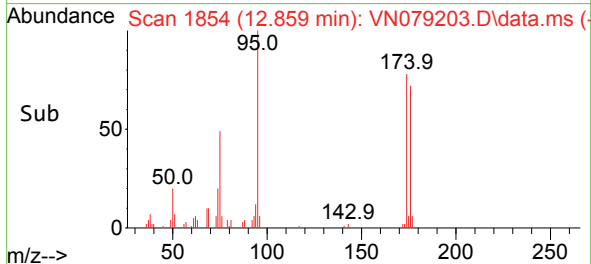
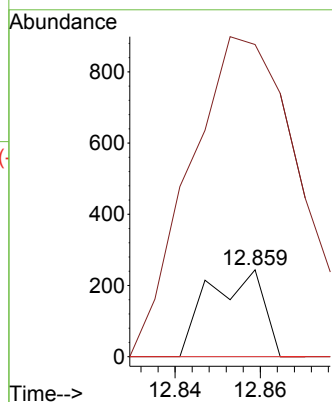
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	219
Ion Ratio	Lower	Upper	
173	100		
175	721.5	37.6	56.4#
254	0.0	7.8	11.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

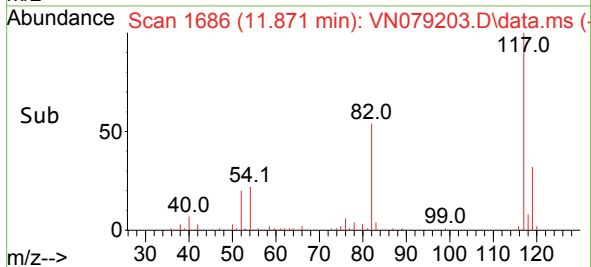
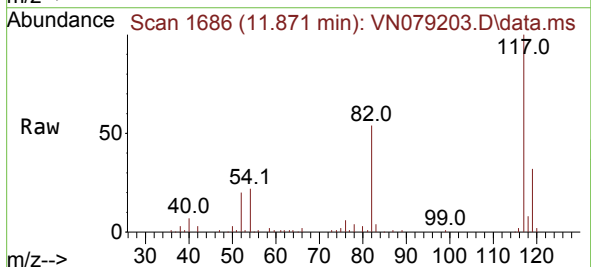
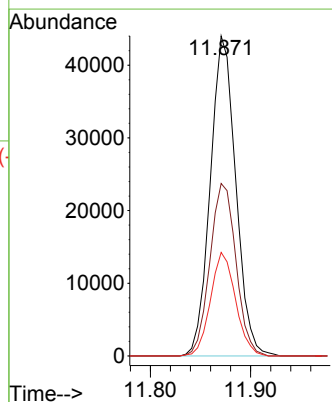
RT: 11.871 min Scan# 1686

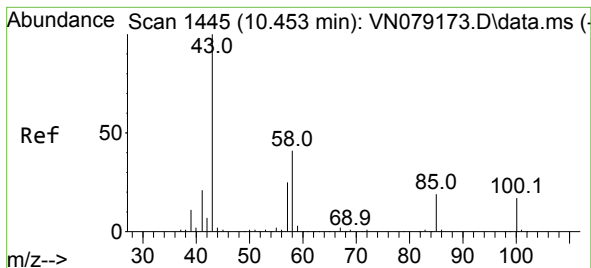
Delta R.T. -0.000 min

Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

Tgt Ion:	117	Resp:	77770
Ion Ratio	Lower	Upper	
117	100		
82	55.1	44.7	67.1
119	31.8	24.9	37.3

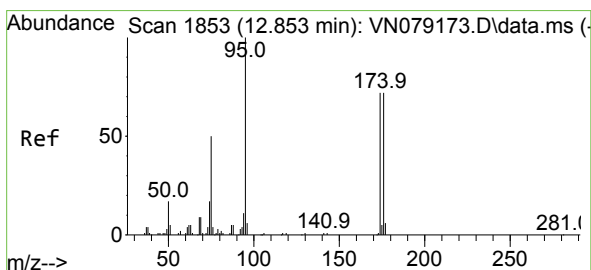
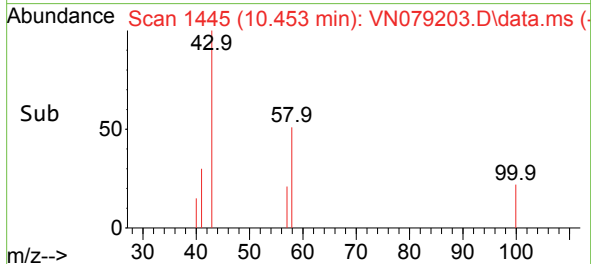
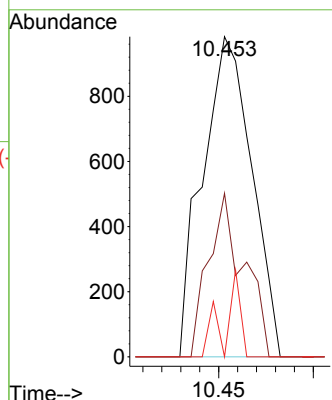
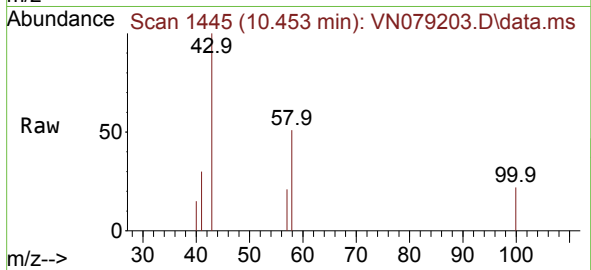




#58
4-Methyl-2-Pentanone
Concen: 1.247 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

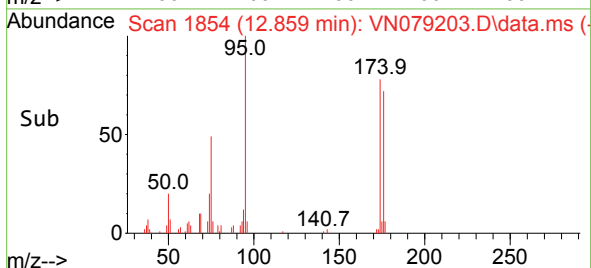
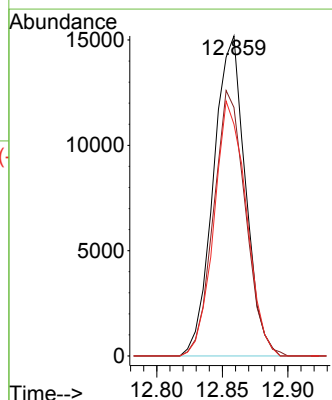
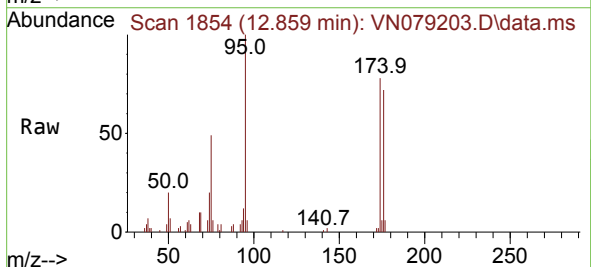
Instrument :
MSVOA_N
ClientSampleId :

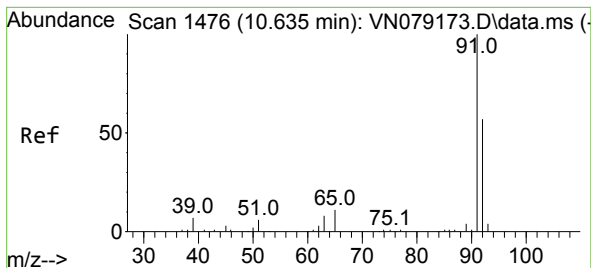
Tgt Ion: 43 Resp: 1779
Ion Ratio Lower Upper
43 100
58 26.4 33.6 50.4#
85 3.4 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 22.429 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

Tgt Ion: 95 Resp: 25701
Ion Ratio Lower Upper
95 100
174 82.9 59.5 89.3
176 80.5 59.1 88.7





#62

Toluene

Concen: 49.215 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

Instrument :

MSVOA_N

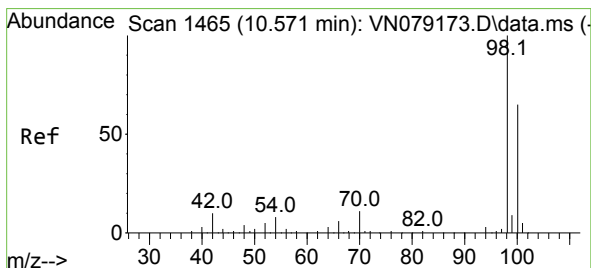
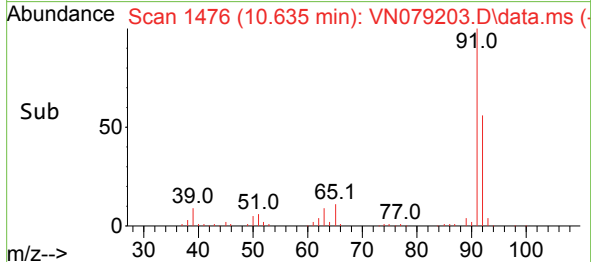
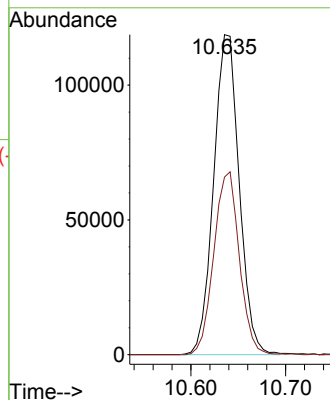
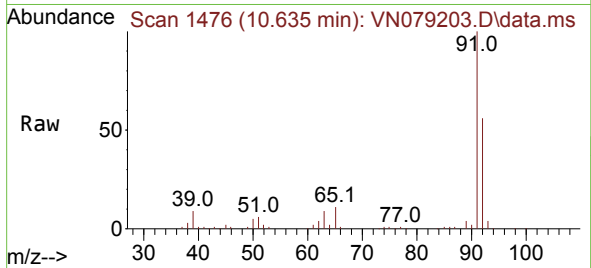
ClientSampleId :

Tgt Ion: 91 Resp: 222854

Ion Ratio Lower Upper

91 100

92 57.0 45.7 68.5



#63

Toluene-d8

Concen: 29.717 ug/l

RT: 10.577 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN079203.D

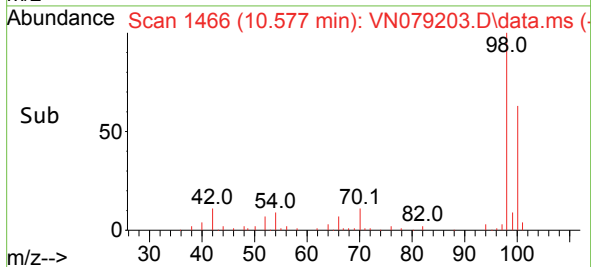
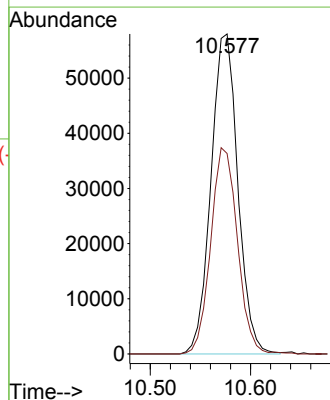
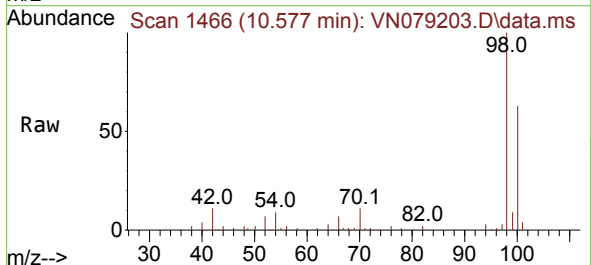
Acq: 08 Sep 2023 17:30

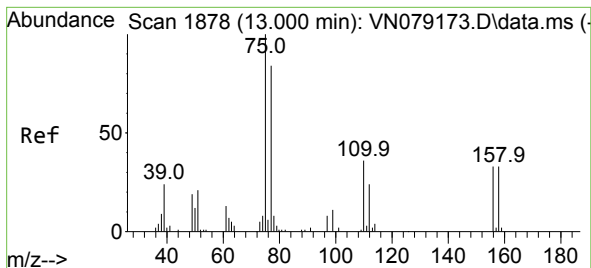
Tgt Ion: 98 Resp: 108006

Ion Ratio Lower Upper

98 100

100 63.8 52.5 78.7





#72

1,2,3-Trichloropropane

Concen: 10.454 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

Instrument :

MSVOA_N

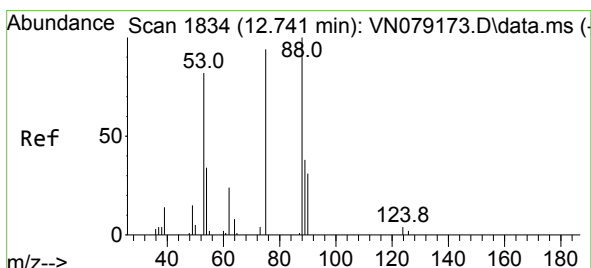
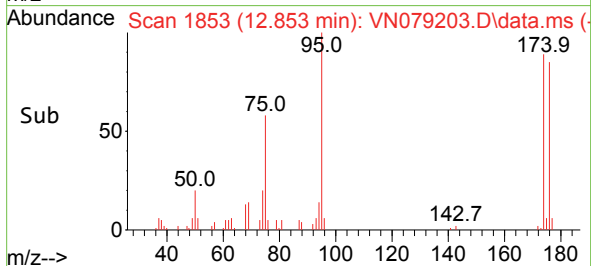
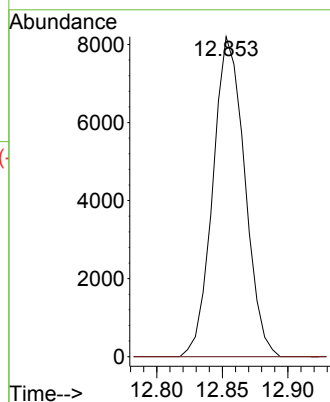
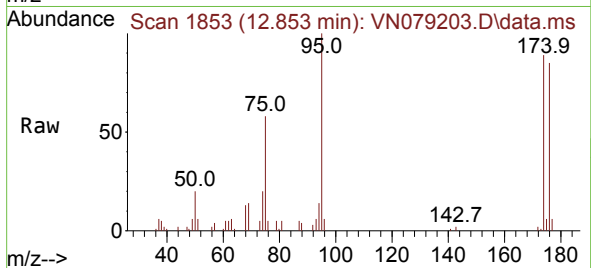
ClientSampleId :

Tgt Ion: 75 Resp: 13838

Ion Ratio Lower Upper

75 100

77 0.0 0.0 252.2



#77

t-1,4-Dichloro-2-butene

Concen: 29.694 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079203.D

Acq: 08 Sep 2023 17:30

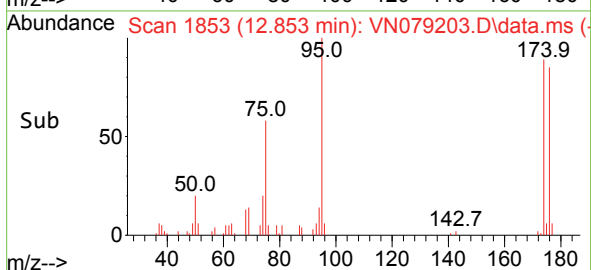
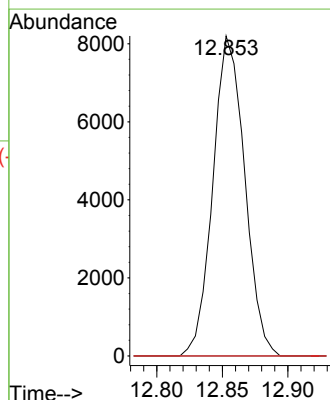
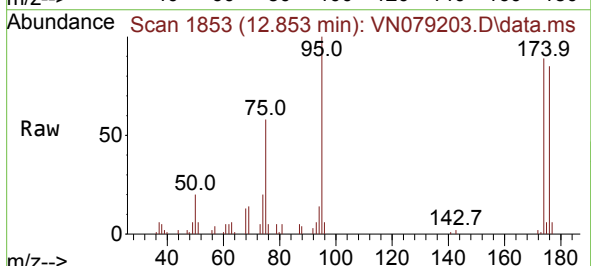
Tgt Ion: 75 Resp: 13838

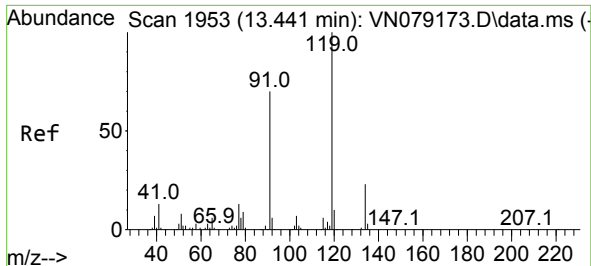
Ion Ratio Lower Upper

75 100

53 0.0 44.1 132.4#

89 0.0 22.4 67.3#

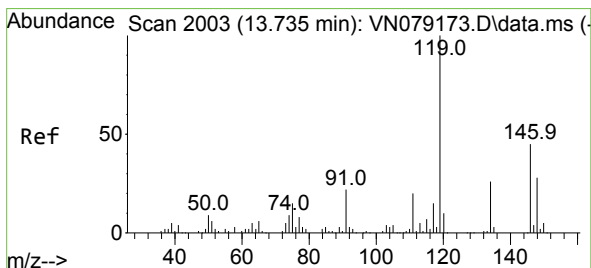
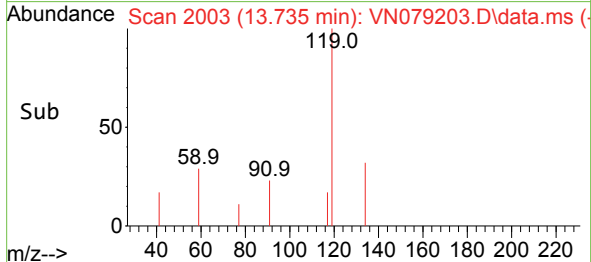
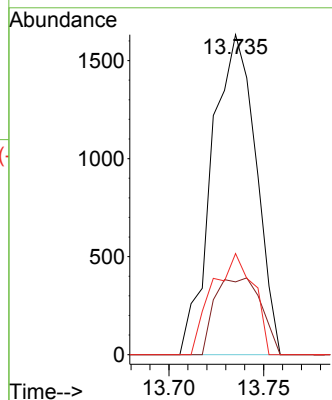
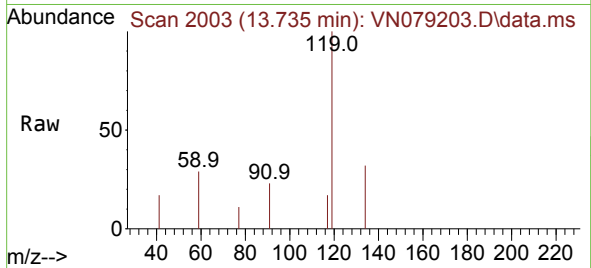




#79
tert-butylbenzene
Concen: 0.924 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

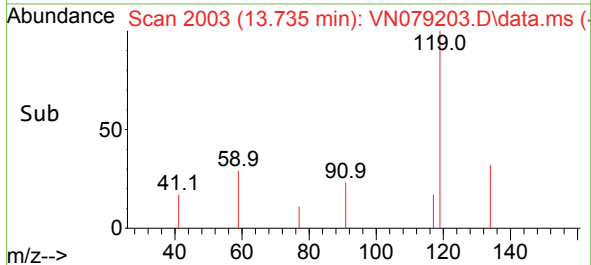
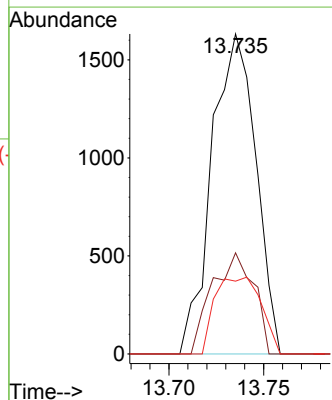
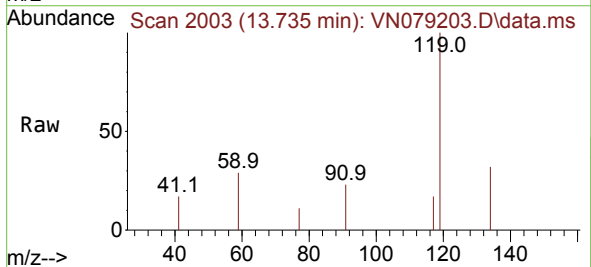
Instrument :
MSVOA_N
ClientSampleId :

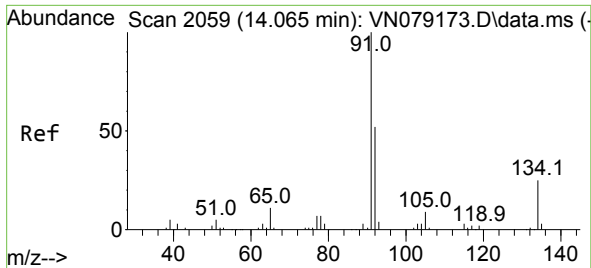
Tgt Ion:119 Resp: 2637
Ion Ratio Lower Upper
119 100
91 25.1 0.0 130.8
134 29.9 0.0 48.8



#82
p-Isopropyltoluene
Concen: 0.855 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN079203.D
Acq: 08 Sep 2023 17:30

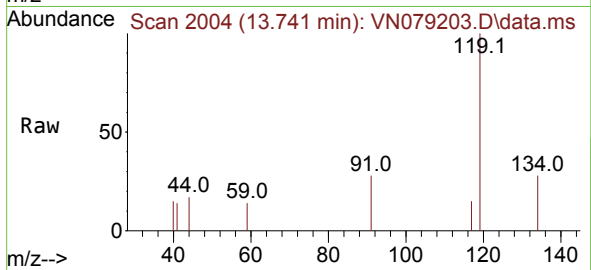
Tgt Ion:119 Resp: 2637
Ion Ratio Lower Upper
119 100
134 29.9 0.0 53.8
91 25.1 0.0 48.0





#85
 n-Butylbenzene
 Concen: 0.282 ug/l
 RT: 13.741 min Scan# 20
 Delta R.T. -0.324 min
 Lab File: VN079203.D
 Acq: 08 Sep 2023 17:30

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 91	Resp: 663
Ion Ratio	Lower Upper
91	100
92	0.0 0.0 105.0
134	118.9 0.0 49.6#

