

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090823\
 Data File : VN079194.D
 Acq On : 08 Sep 2023 13:51
 Operator : JC\MD
 Sample : 04320-03RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 08 17:20:46 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)

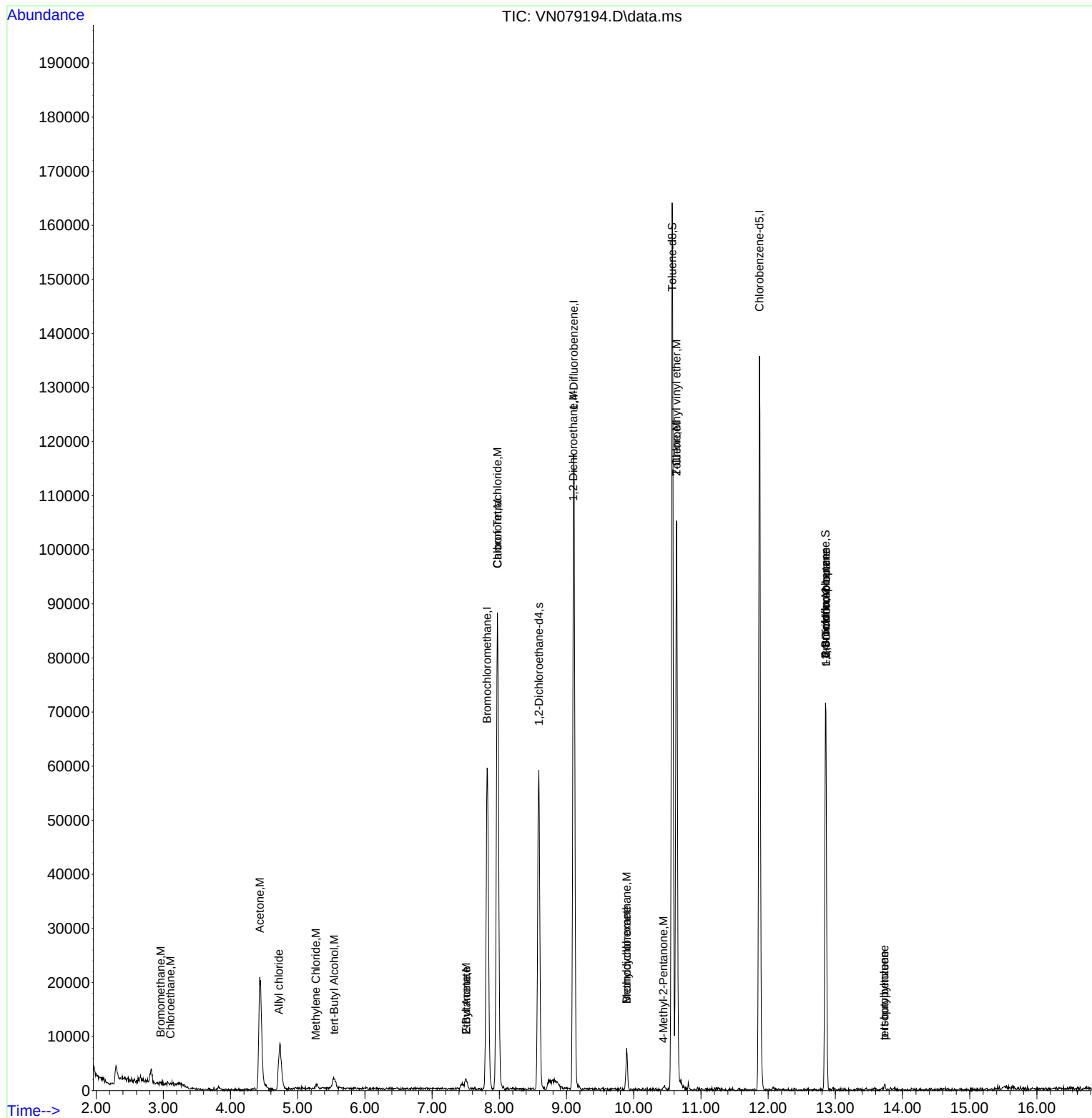
Internal Standards						
1) Bromochloromethane	7.818	128	21511	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	103584	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	82844	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	49987	30.930	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.100%
60) 4-Bromofluorobenzene	12.853	95	26536	21.739	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	72.467%
63) Toluene-d8	10.571	98	115754	29.898	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.667%
Target Compounds						
					Qvalue	
5) Bromomethane	2.959	94	177	0.242	ug/l #	5
6) Chloroethane	3.107	64	400	0.549	ug/l #	50
15) Acetone	4.436	58	13092	97.018	ug/l	92
17) Allyl chloride	4.718	41	467	0.384	ug/l	98
18) Methylene Chloride	5.271	84	374	0.369	ug/l #	33
23) tert-Butyl Alcohol	5.542	59	3873	19.462	ug/l #	100
25) Chloroform	7.971	83	88186	34.394	ug/l	99
30) 2-Butanone	7.506	43	2537	3.037	ug/l #	94
33) Carbon Tetrachloride	7.971	117	1023	0.609	ug/l #	71
36) 1,2-Dichloroethane	9.100	62	3732	2.145	ug/l #	73
38) Methylcyclohexane	9.894	83	5318	3.203	ug/l #	17
41) Bromodichloromethane	9.894	83	5318	2.972	ug/l #	95
43) Ethyl Acetate	7.506	43	2537	1.599	ug/l #	72
55) 2-Chloroethyl vinyl ether	10.635	63	4760	6.889	ug/l #	1
56) Bromoform	12.853	173	225	0.244	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	636	0.418	ug/l #	69
62) Toluene	10.635	91	80857	16.763	ug/l	100
72) 1,2,3-Trichloropropane	12.859	75	14141	10.029	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.859	75	14141	28.485	ug/l #	14
79) tert-butylbenzene	13.729	119	832	0.274	ug/l #	35
82) p-Isopropyltoluene	13.729	119	832	0.253	ug/l #	66

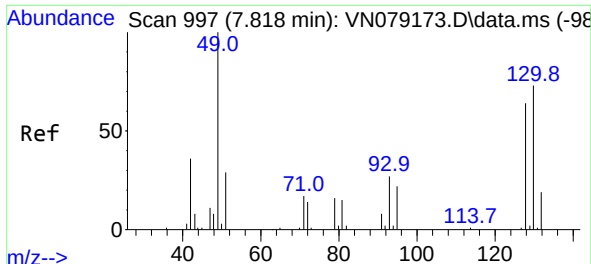
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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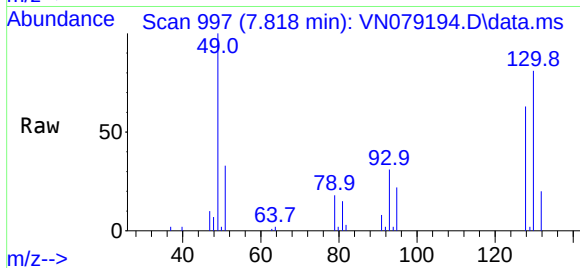
Quant Time: Sep 08 17:20:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
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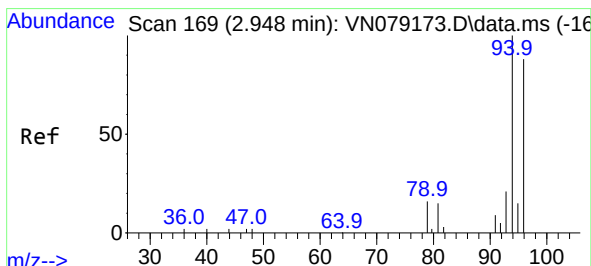
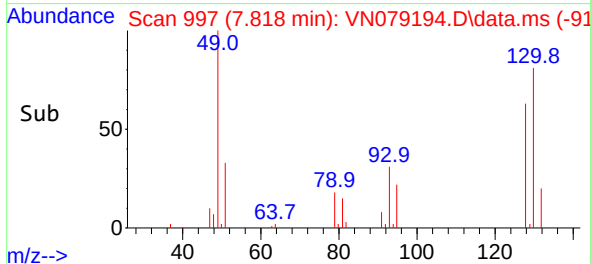
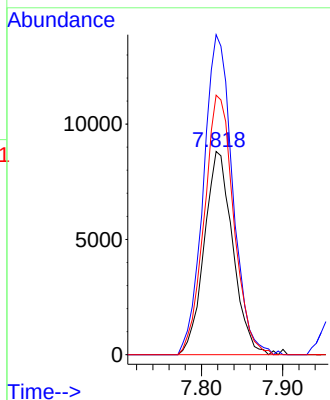


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Instrument :
MSVOA_N
ClientSampleId :

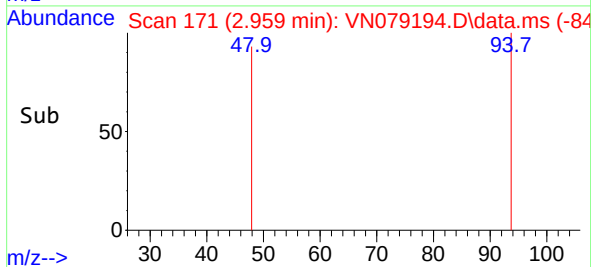
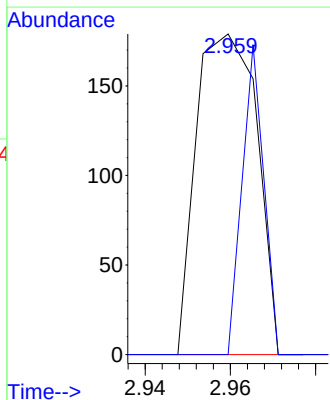
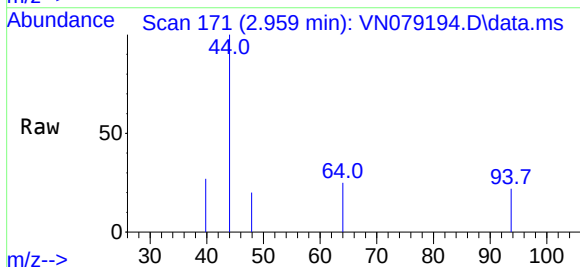


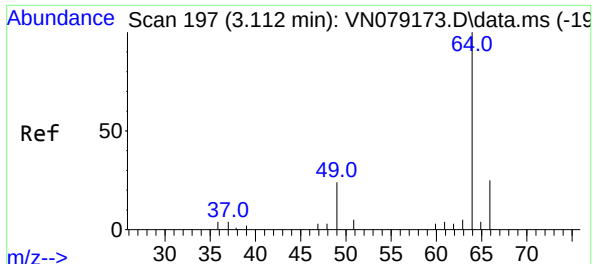
Tgt Ion:128 Resp: 21511
Ion Ratio Lower Upper
128 100
49 160.6 0.0 414.3
130 131.8 0.0 311.0



#5
Bromomethane
Concen: 0.242 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.011 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Tgt Ion: 94 Resp: 177
Ion Ratio Lower Upper
94 100
96 0.0 70.6 105.8#

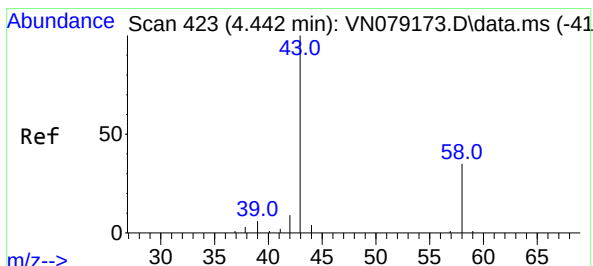
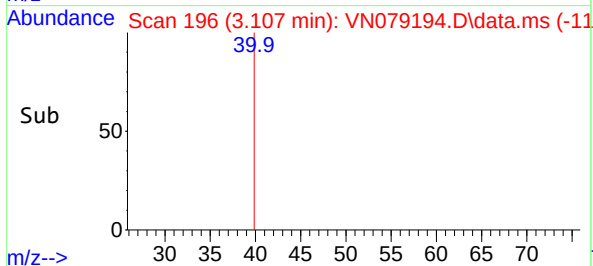
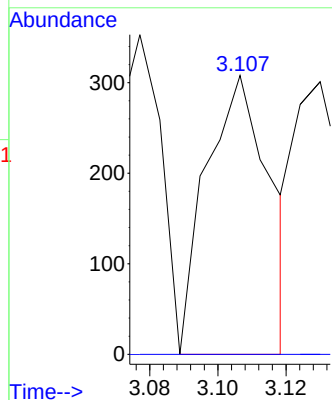
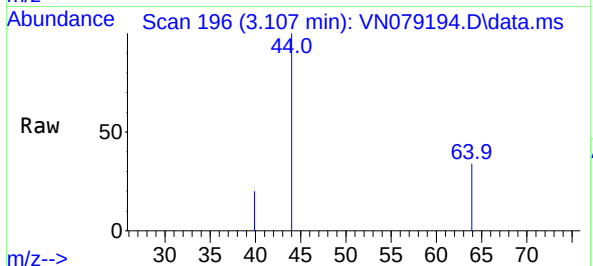




#6
Chloroethane
Concen: 0.549 ug/l
RT: 3.107 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

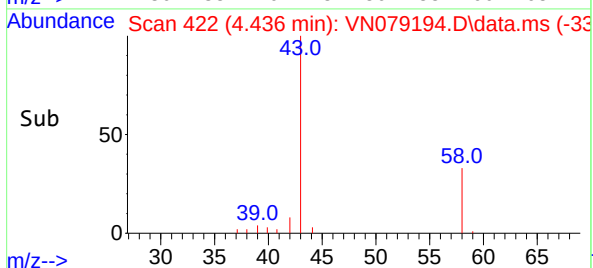
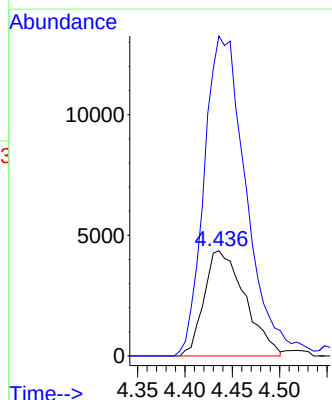
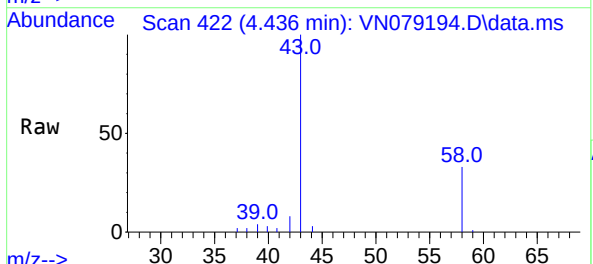
Instrument :
MSVOA_N
ClientSampleId :

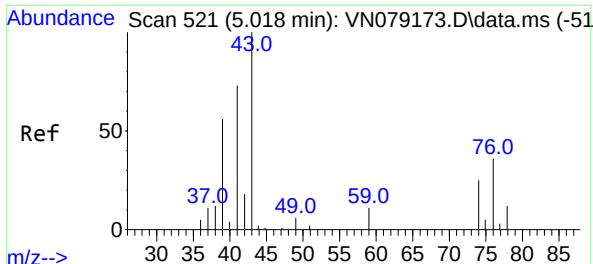
Tgt Ion: 64 Resp: 400
Ion Ratio Lower Upper
64 100
66 0.0 20.1 30.1#



#15
Acetone
Concen: 97.018 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

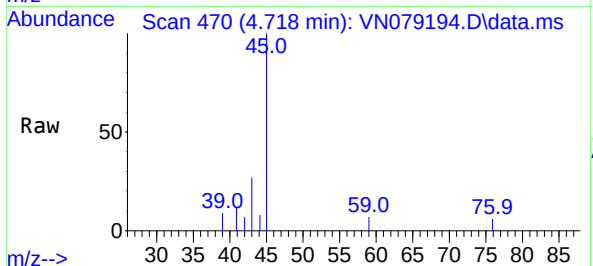
Tgt Ion: 58 Resp: 13092
Ion Ratio Lower Upper
58 100
43 299.8 228.3 342.5





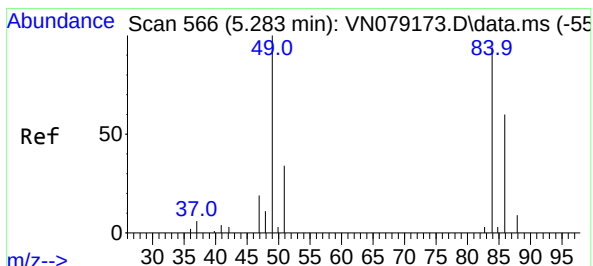
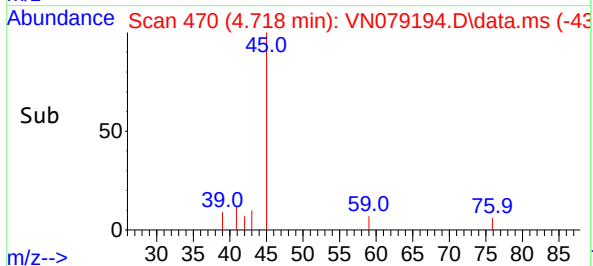
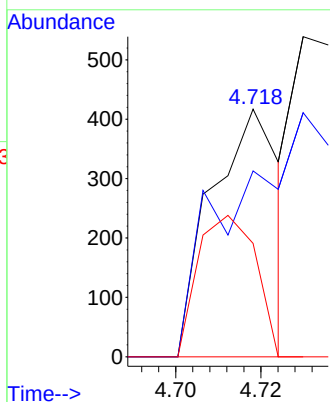
#17
 Allyl chloride
 Concen: 0.384 ug/l
 RT: 4.718 min Scan# 41
 Delta R.T. -0.300 min
 Lab File: VN079194.D
 Acq: 08 Sep 2023 13:51

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 41 Resp: 467

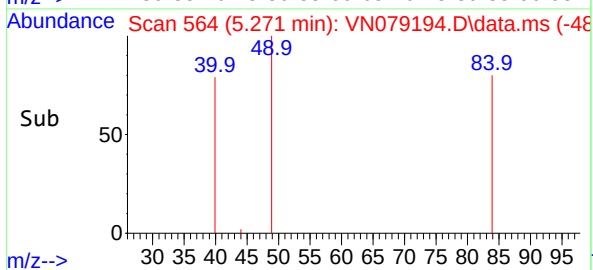
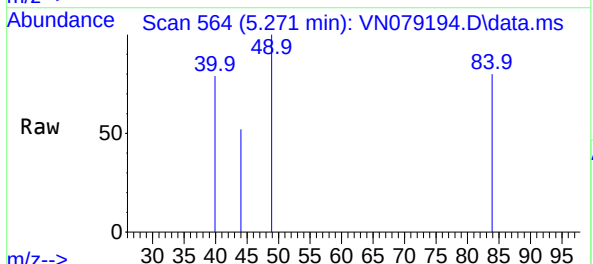
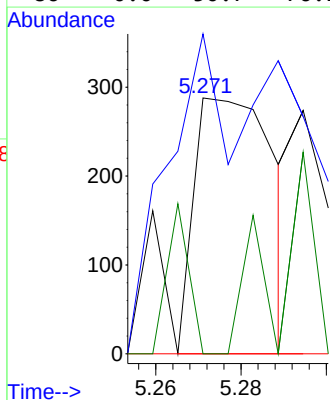
Ion	Ratio	Lower	Upper
41	100		
39	75.1	38.3	114.8
76	45.8	23.7	71.1

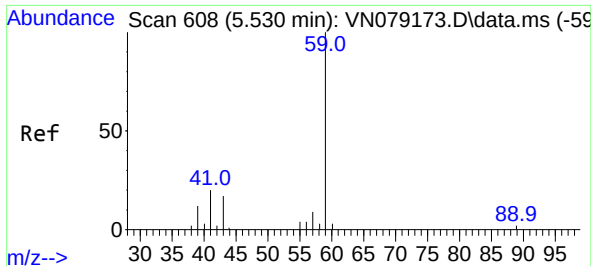


#18
 Methylene Chloride
 Concen: 0.369 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. -0.012 min
 Lab File: VN079194.D
 Acq: 08 Sep 2023 13:51

Tgt Ion: 84 Resp: 374

Ion	Ratio	Lower	Upper
84	100		
49	45.8	86.9	130.3#
51	0.0	28.6	43.0#
86	0.0	50.7	76.1#

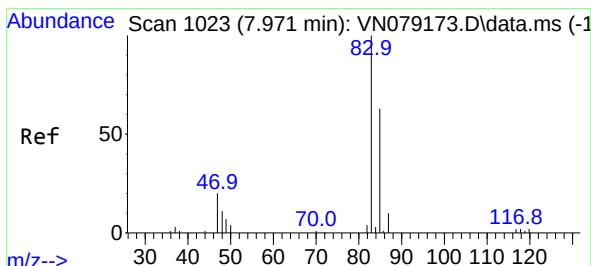
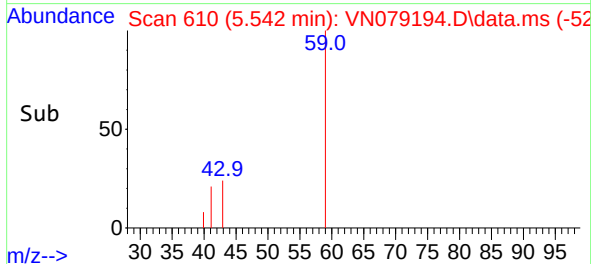
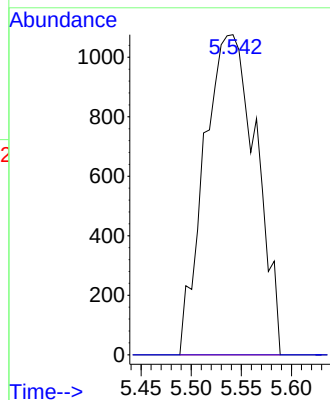
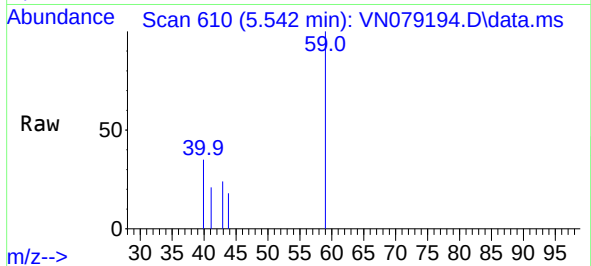




#23
tert-Butyl Alcohol
Concen: 19.462 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.012 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

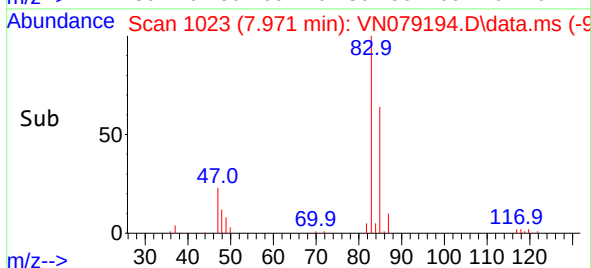
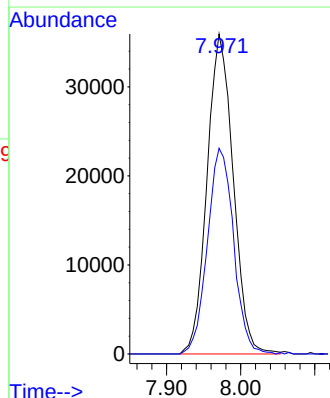
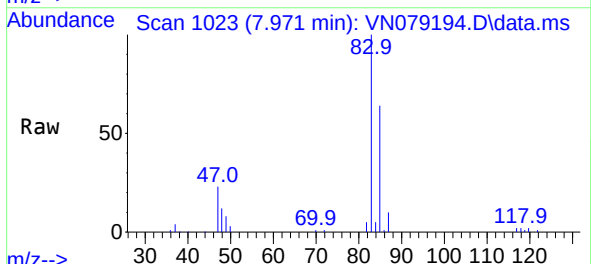
Instrument :
MSVOA_N
ClientSampleId :

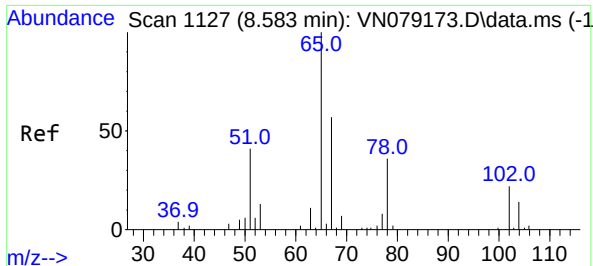
Tgt Ion: 59 Resp: 3873
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 34.394 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.000 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Tgt Ion: 83 Resp: 88186
Ion Ratio Lower Upper
83 100
85 64.3 50.6 76.0

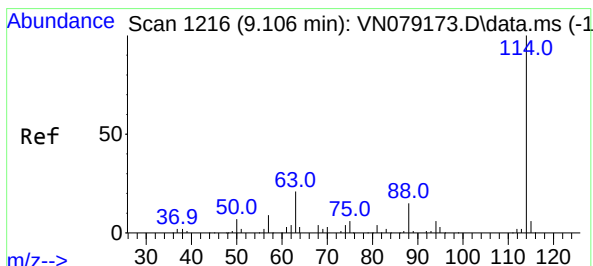
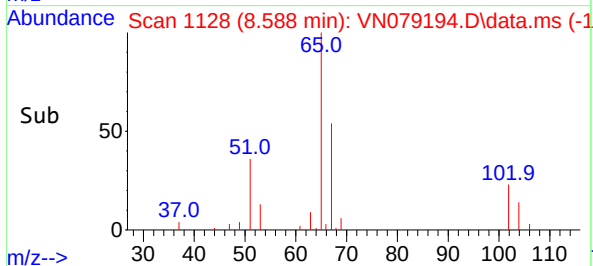
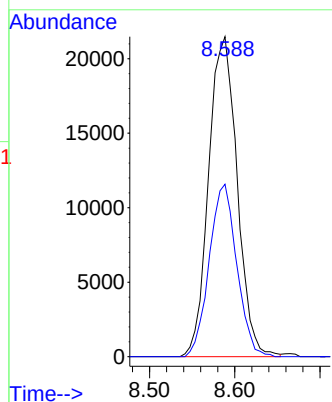
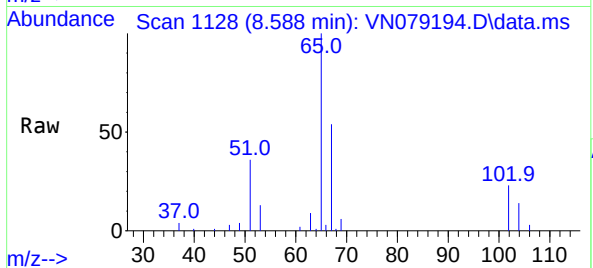




#27
1,2-Dichloroethane-d4
Concen: 30.930 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.005 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

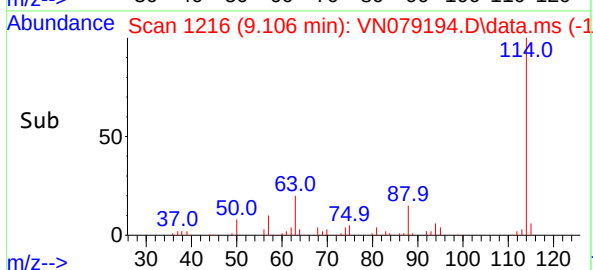
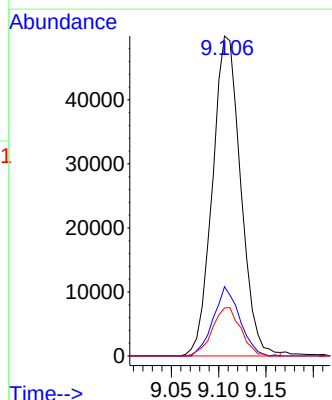
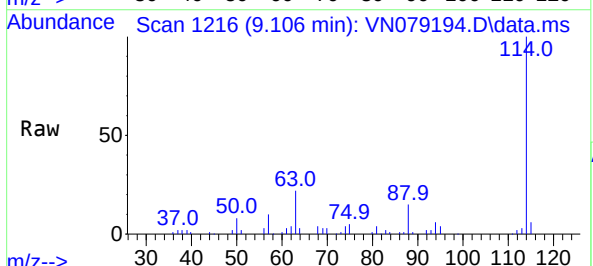
Instrument :
MSVOA_N
ClientSampleId :

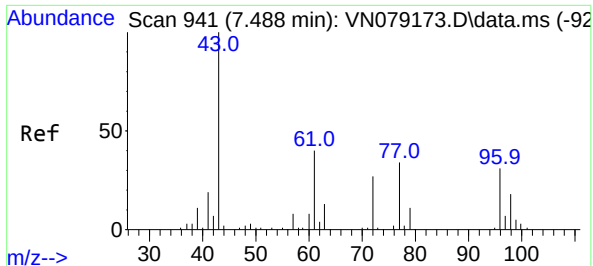
Tgt Ion: 65 Resp: 49987
Ion Ratio Lower Upper
65 100
67 52.0 44.4 66.6



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Tgt Ion: 114 Resp: 103584
Ion Ratio Lower Upper
114 100
63 20.2 17.0 25.4
88 15.2 12.8 19.2





#30

2-Butanone

Concen: 3.037 ug/l

RT: 7.506 min Scan# 941

Delta R.T. 0.018 min

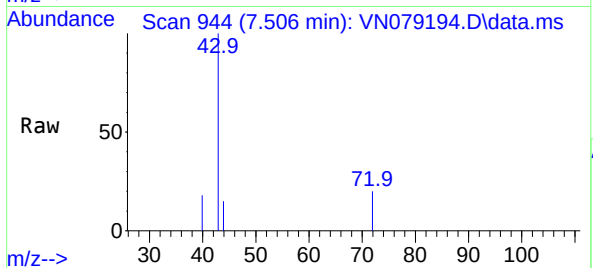
Lab File: VN079194.D

Acq: 08 Sep 2023 13:51

Instrument :

MSVOA_N

ClientSampleId :



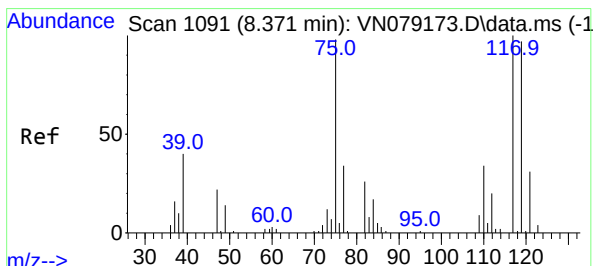
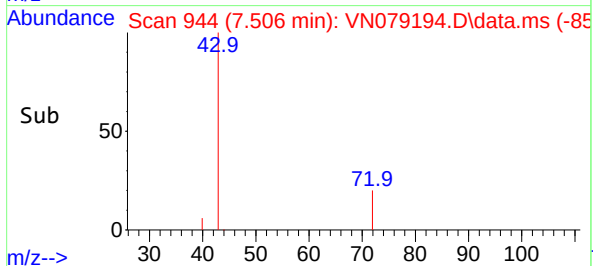
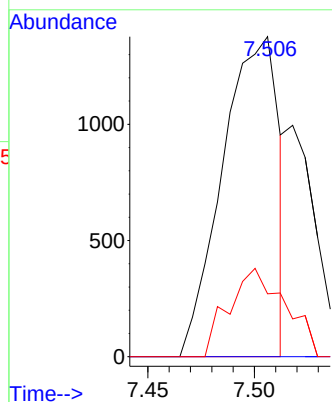
Tgt Ion: 43 Resp: 2537

Ion Ratio Lower Upper

43 100

57 0.0 6.8 10.2#

72 27.7 22.4 33.6



#33

Carbon Tetrachloride

Concen: 0.609 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. -0.400 min

Lab File: VN079194.D

Acq: 08 Sep 2023 13:51

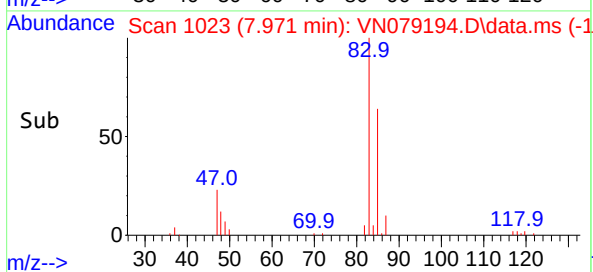
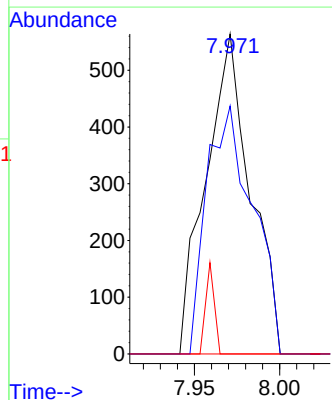
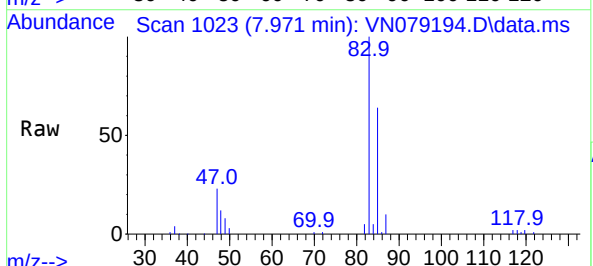
Tgt Ion: 117 Resp: 1023

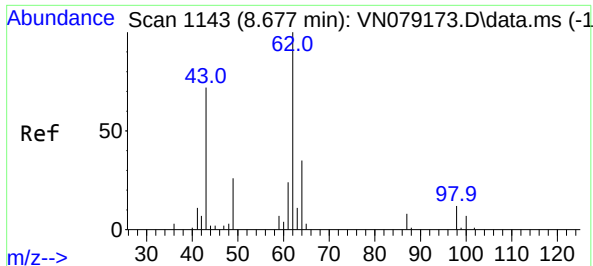
Ion Ratio Lower Upper

117 100

119 77.5 77.9 116.9#

121 0.0 25.1 37.7#

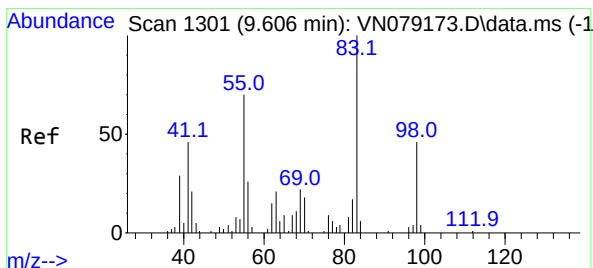
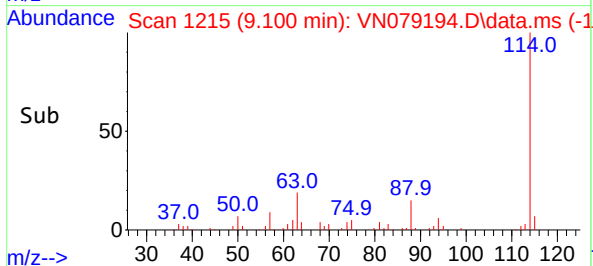
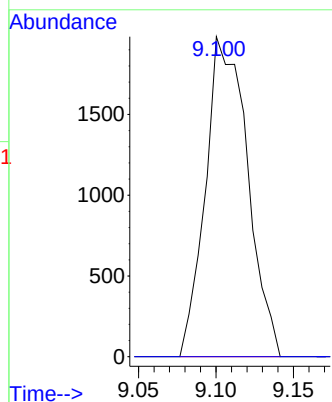
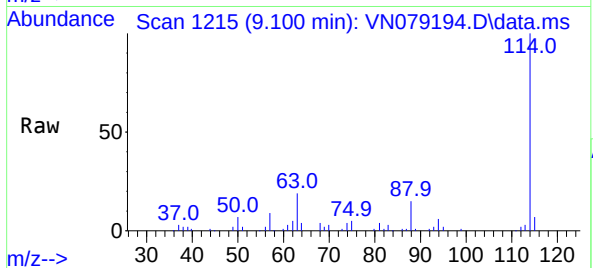




#36
1,2-Dichloroethane
Concen: 2.145 ug/l
RT: 9.100 min Scan# 1143
Delta R.T. 0.423 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

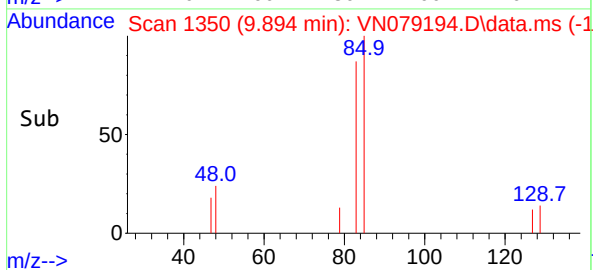
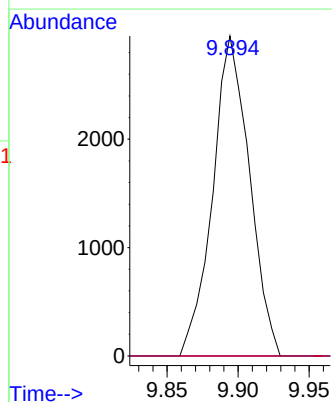
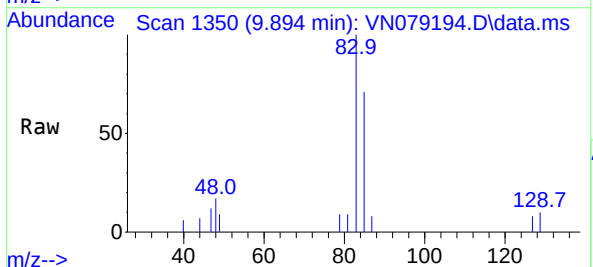
Instrument :
MSVOA_N
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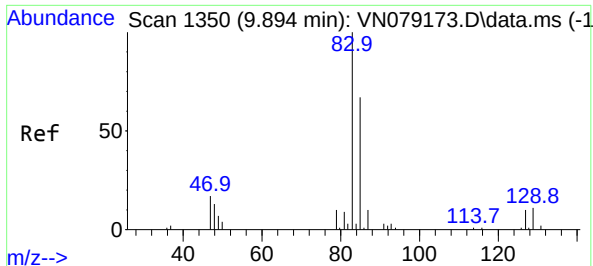
Tgt Ion: 62 Resp: 3732
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#



#38
Methylcyclohexane
Concen: 3.203 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.288 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

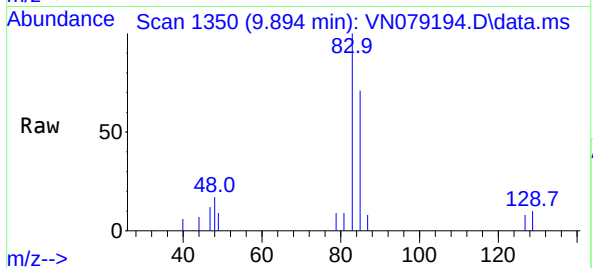
Tgt Ion: 83 Resp: 5318
Ion Ratio Lower Upper
83 100
55 0.0 39.1 117.2#
98 0.0 24.1 72.4#



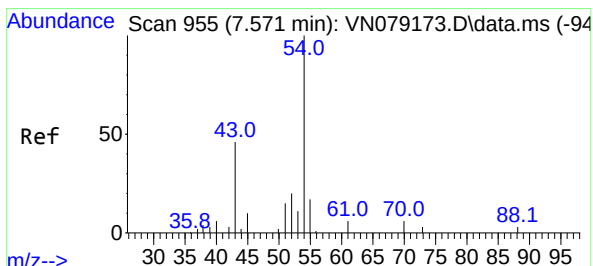
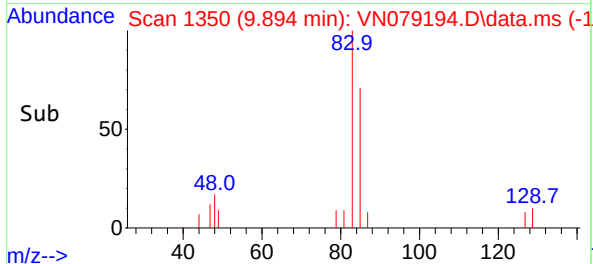
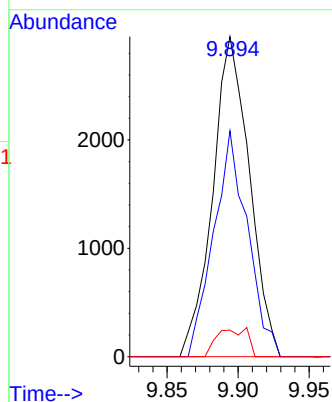


#41
Bromodichloromethane
Concen: 2.972 ug/l
RT: 9.894 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Instrument :
MSVOA_N
ClientSampleId :

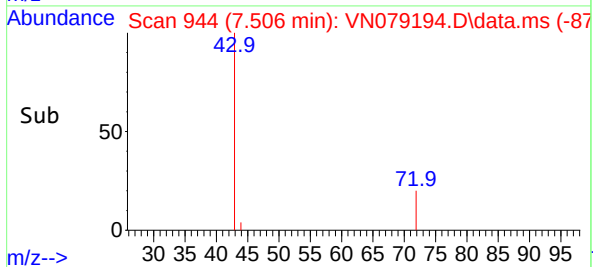
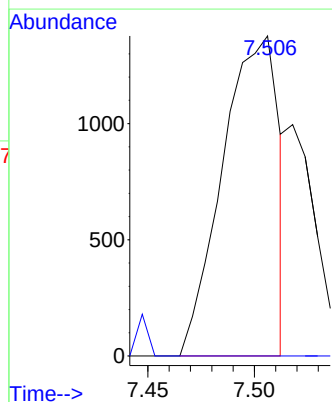
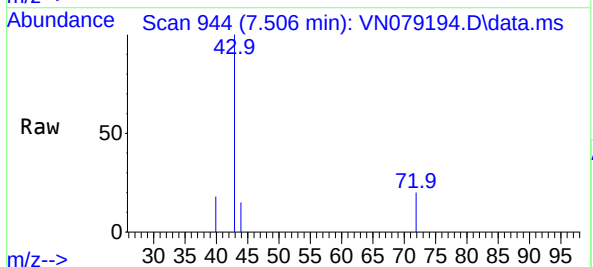


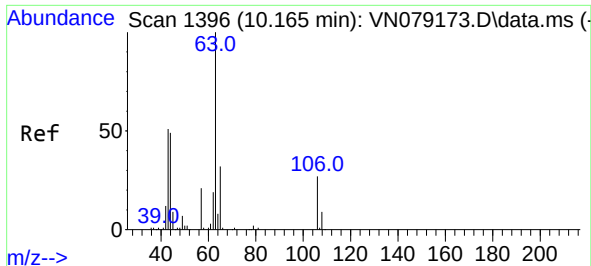
Tgt Ion: 83 Resp: 5318
Ion Ratio Lower Upper
83 100
85 70.6 53.4 80.2
127 8.3 8.3 12.5#



#43
Ethyl Acetate
Concen: 1.599 ug/l
RT: 7.506 min Scan# 944
Delta R.T. -0.065 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

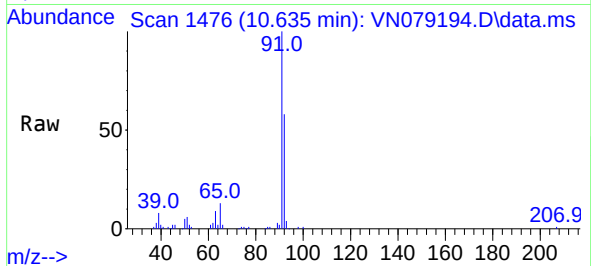
Tgt Ion: 43 Resp: 2537
Ion Ratio Lower Upper
43 100
45 2.6 11.1 16.7#



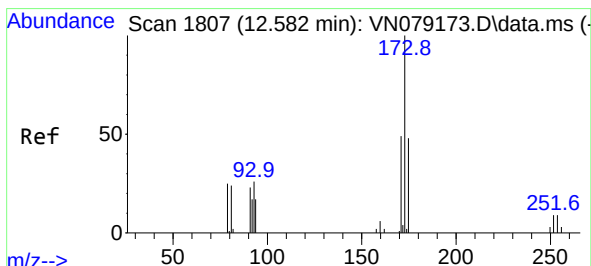
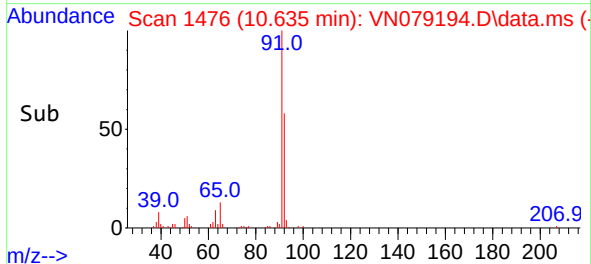
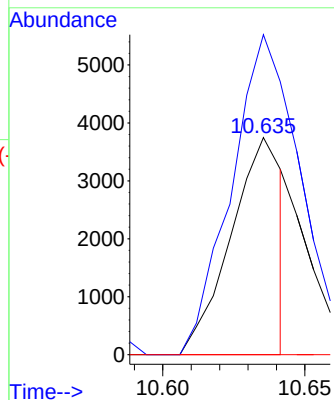


#55
2-Chloroethyl vinyl ether
Concen: 6.889 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.470 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Instrument :
MSVOA_N
ClientSampleId :

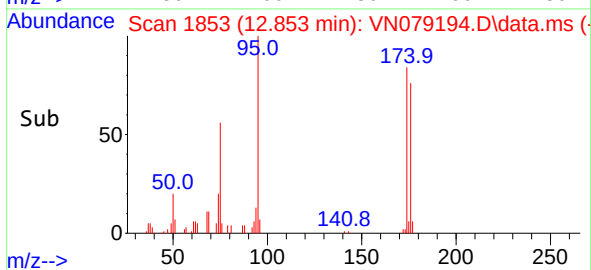
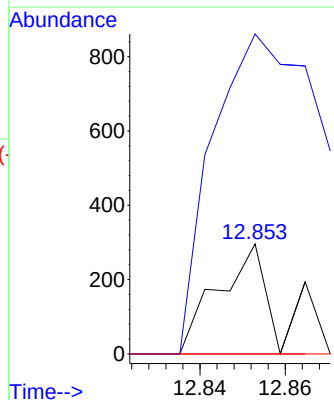
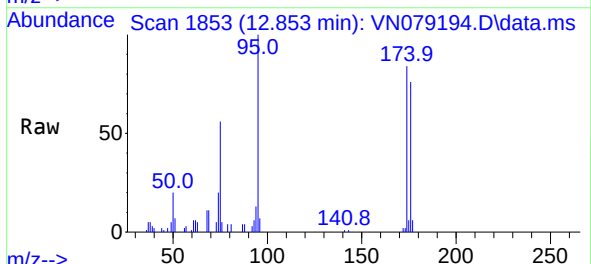


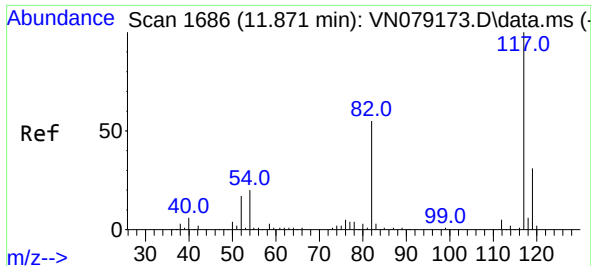
Tgt Ion: 63 Resp: 4760
Ion Ratio Lower Upper
63 100
65 146.0 25.7 38.5#
106 0.0 21.9 32.9#



#56
Bromoform
Concen: 0.244 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Tgt Ion: 173 Resp: 225
Ion Ratio Lower Upper
173 100
175 696.0 37.6 56.4#
254 0.0 7.8 11.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079194.D

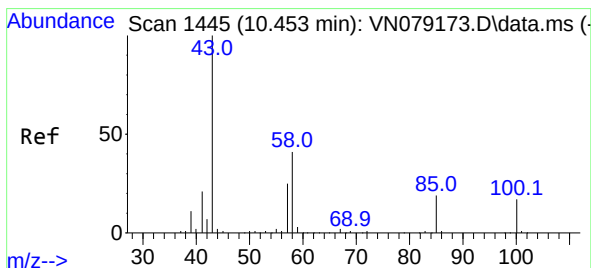
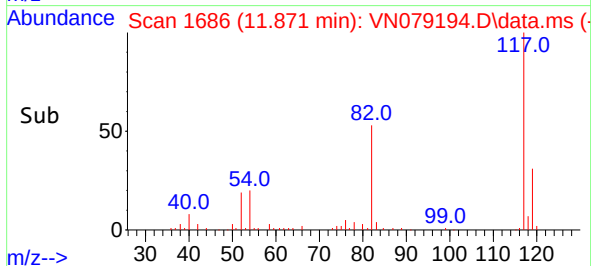
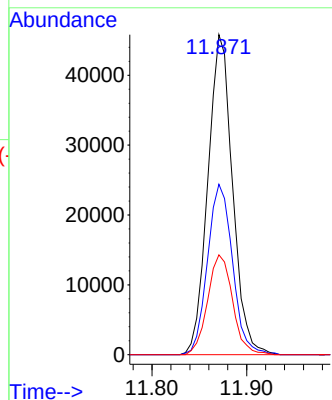
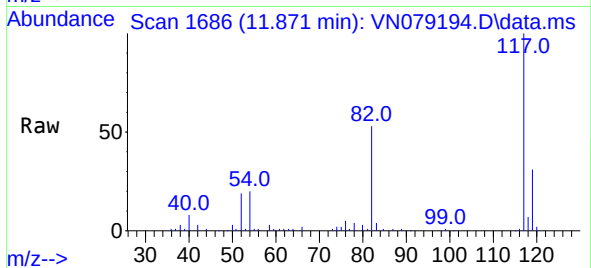
Acq: 08 Sep 2023 13:51

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:117	Resp:	82844
Ion	Ratio	Lower Upper
117	100	
82	54.1	44.7 67.1
119	31.6	24.9 37.3



#58

4-Methyl-2-Pentanone

Concen: 0.418 ug/l

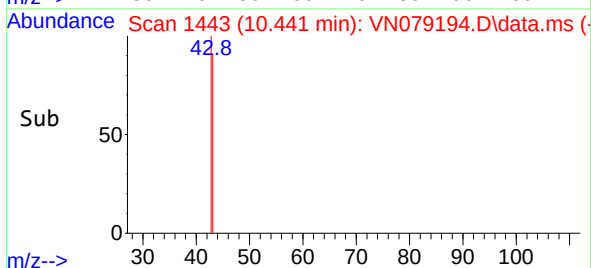
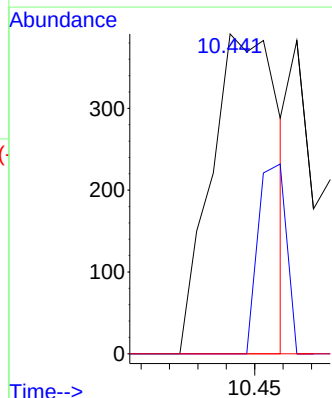
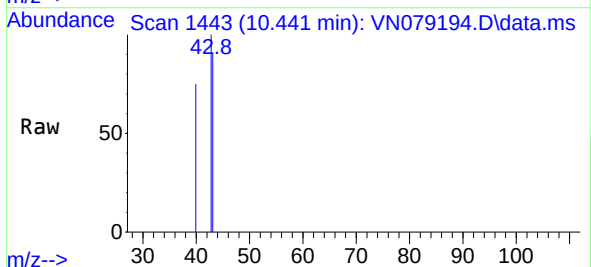
RT: 10.441 min Scan# 1443

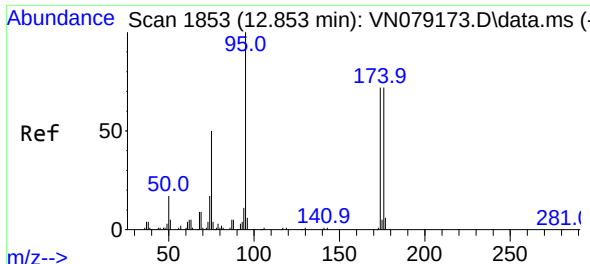
Delta R.T. -0.012 min

Lab File: VN079194.D

Acq: 08 Sep 2023 13:51

Tgt Ion: 43	Resp:	636
Ion	Ratio	Lower Upper
43	100	
58	25.2	33.6 50.4#
85	0.0	15.0 22.4#

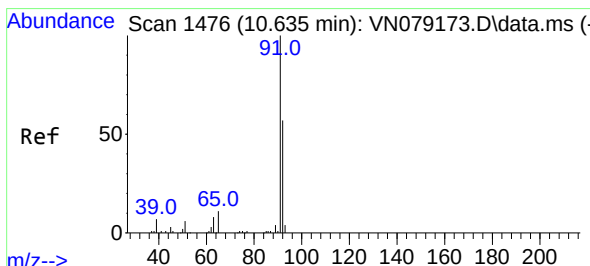
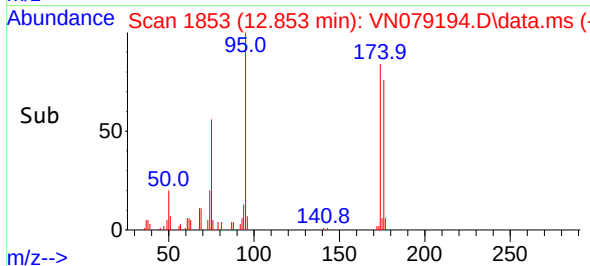
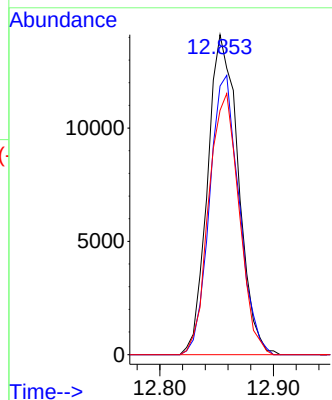
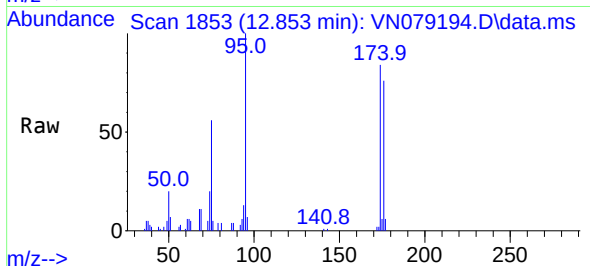




#60
4-Bromofluorobenzene
Concen: 21.739 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

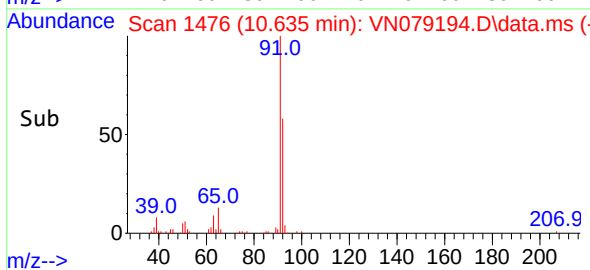
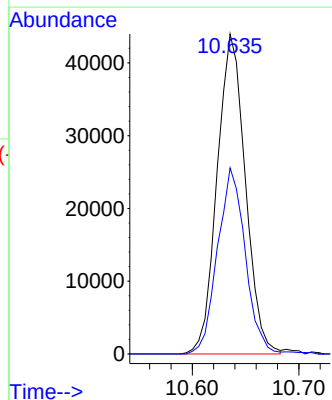
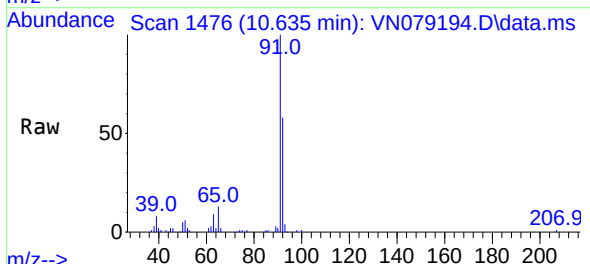
Instrument :
MSVOA_N
ClientSampleId :

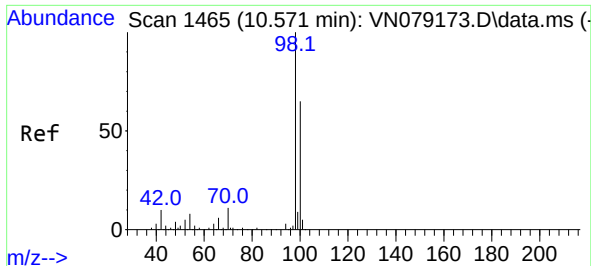
Tgt Ion: 95 Resp: 26536
Ion Ratio Lower Upper
95 100
174 83.8 59.5 89.3
176 80.4 59.1 88.7



#62
Toluene
Concen: 16.763 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

Tgt Ion: 91 Resp: 80857
Ion Ratio Lower Upper
91 100
92 57.0 45.7 68.5

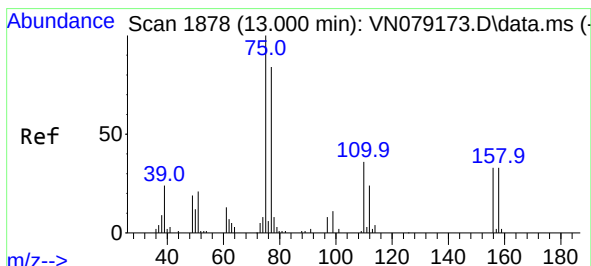
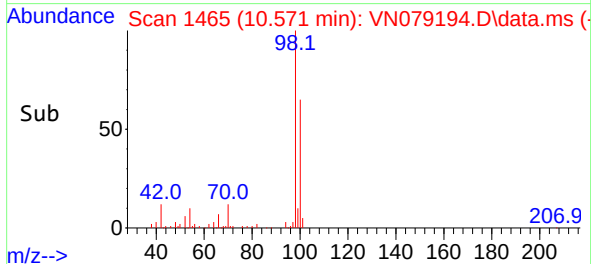
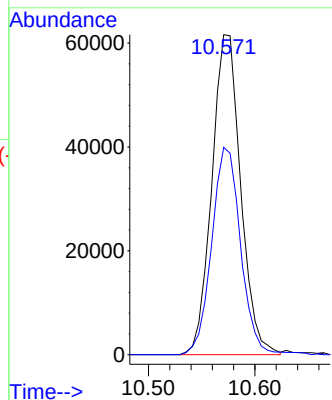
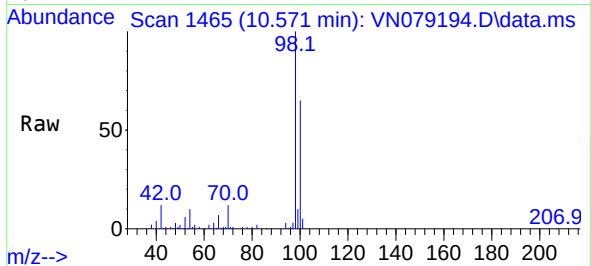




#63
Toluene-d8
Concen: 29.898 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

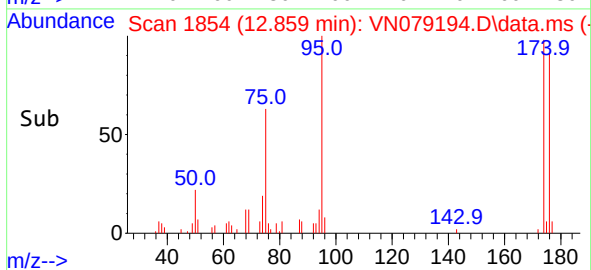
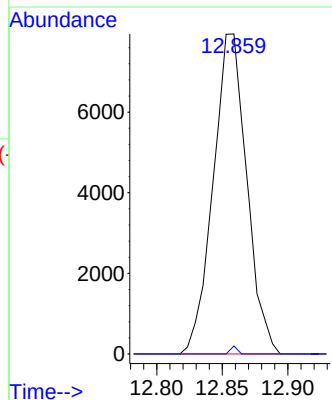
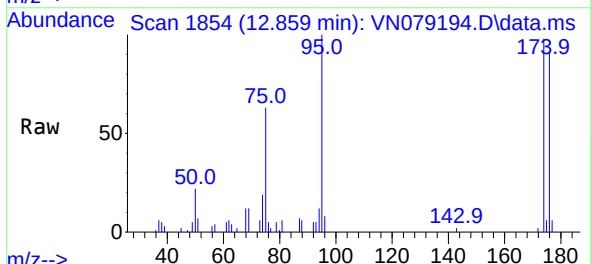
Instrument :
MSVOA_N
ClientSampleId :

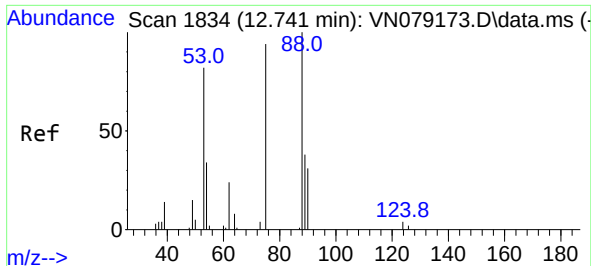
Tgt Ion: 98 Resp: 115754
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 10.029 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

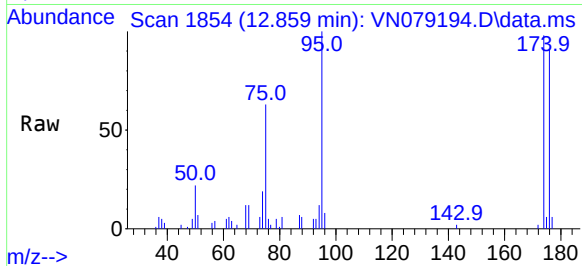
Tgt Ion: 75 Resp: 14141
Ion Ratio Lower Upper
75 100
77 0.0 0.0 252.2



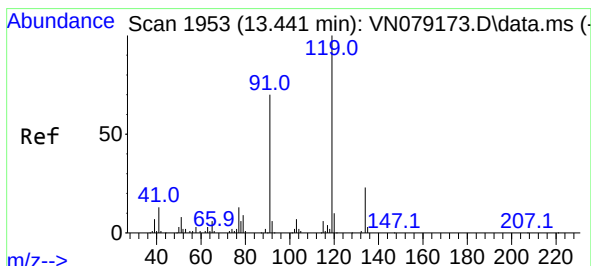
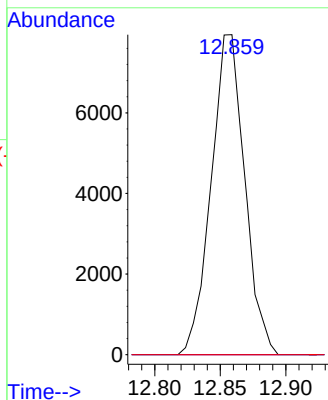
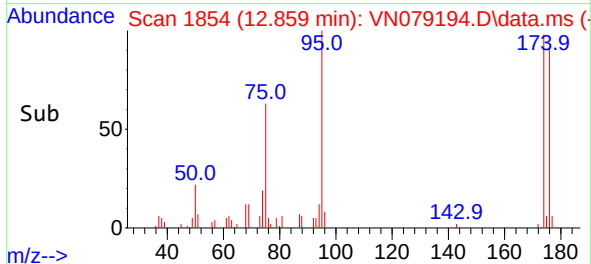


#77
t-1,4-Dichloro-2-butene
Concen: 28.485 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51

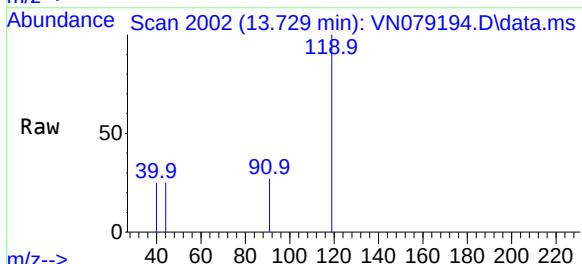
Instrument :
MSVOA_N
ClientSampleId :



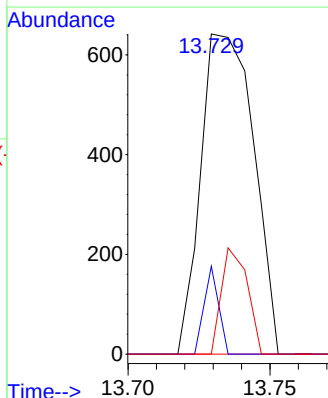
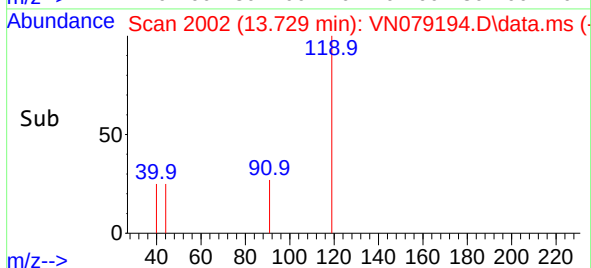
Tgt Ion: 75 Resp: 14141
Ion Ratio Lower Upper
75 100
53 0.0 44.1 132.4#
89 0.0 22.4 67.3#

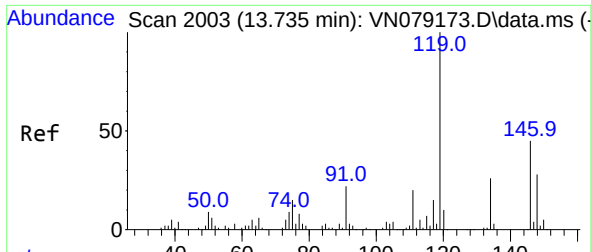


#79
tert-butylbenzene
Concen: 0.274 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.288 min
Lab File: VN079194.D
Acq: 08 Sep 2023 13:51



Tgt Ion: 119 Resp: 832
Ion Ratio Lower Upper
119 100
91 0.0 0.0 130.8
134 16.2 0.0 48.8





#82

p-Isopropyltoluene

Concen: 0.253 ug/l

RT: 13.729 min Scan# 20

Delta R.T. -0.006 min

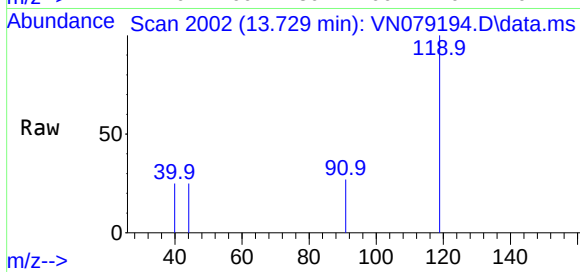
Lab File: VN079194.D

Acq: 08 Sep 2023 13:51

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:119 Resp: 832

Ion Ratio Lower Upper

119 100

134 16.2 0.0 53.8

91 0.0 0.0 48.0

