

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078815.D
 Acq On : 09 Aug 2023 12:54
 Operator : JC\MD
 Sample : VN0809WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBL01

Quant Time: Aug 10 05:28:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

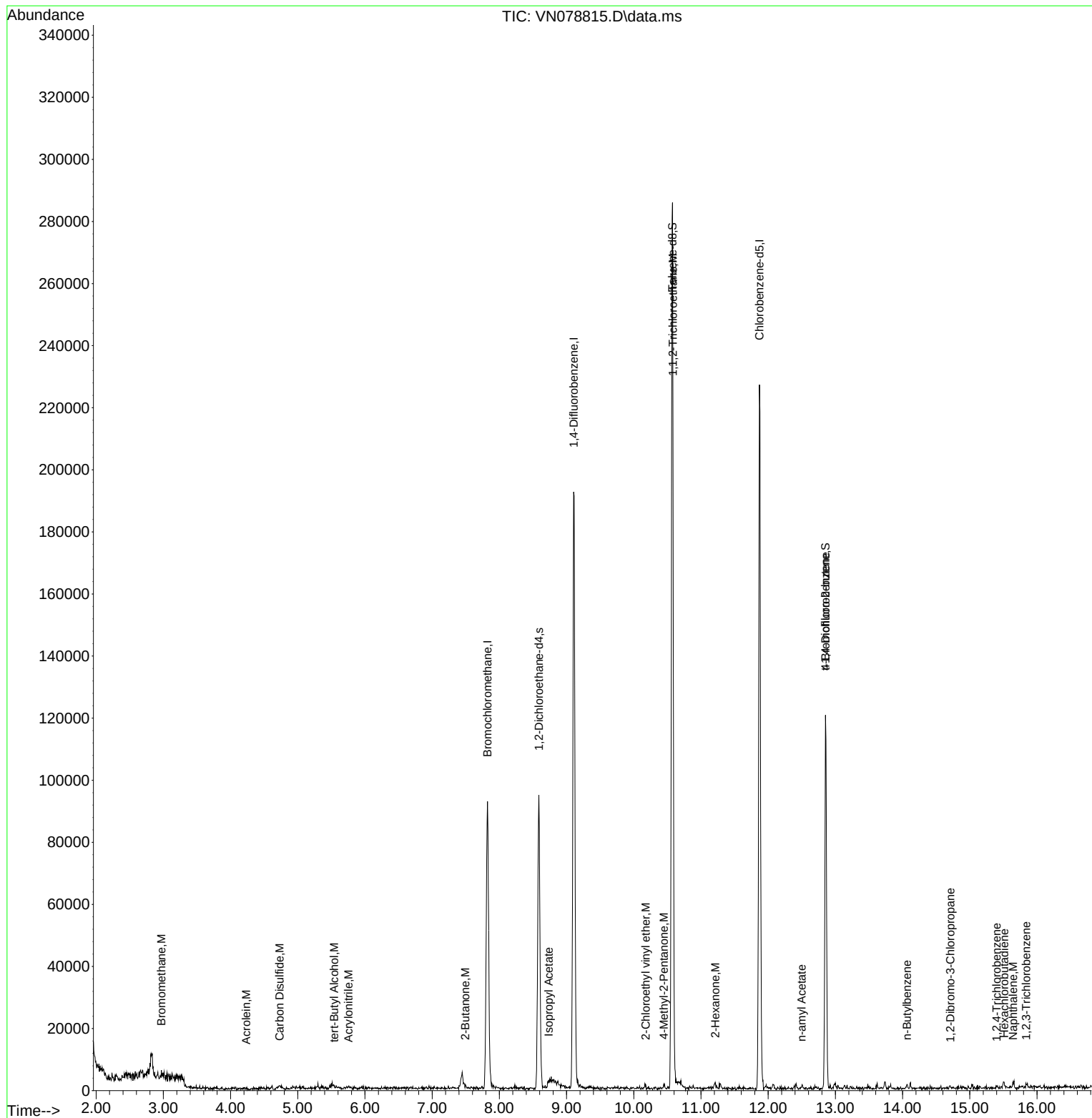
Internal Standards						
1) Bromochloromethane	7.824	128	29359	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	162519	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	130487	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	73827	31.234	ug/l	0.00
Spiked Amount	30.000	Range 91 - 110	Recovery	= 104.100%		
60) 4-Bromofluorobenzene	12.853	95	38972	21.277	ug/l	0.00
Spiked Amount	30.000	Range 63 - 112	Recovery	= 70.933%		
63) Toluene-d8	10.576	98	197758	30.927	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112	Recovery	= 103.100%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	436	0.261	ug/l	95
13) Acrolein	4.236	56	123	0.327	ug/l #	13
14) Acrylonitrile	5.753	53	350	0.374	ug/l #	16
16) Carbon Disulfide	4.730	76	1671	0.353	ug/l #	74
23) tert-Butyl Alcohol	5.541	59	143	0.411	ug/l #	100
30) 2-Butanone	7.494	43	371	0.287	ug/l #	52
44) Isopropyl Acetate	8.735	43	1449	0.300	ug/l #	1
47) n-amyl Acetate	12.500	43	861	0.255	ug/l #	48
50) 1,1,2-Trichloroethane	10.582	97	5798	3.015	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.176	63	445	0.448	ug/l #	72
58) 4-Methyl-2-Pentanone	10.447	43	785	0.313	ug/l #	42
59) 2-Hexanone	11.212	43	1644	0.943	ug/l #	51
77) t-1,4-Dichloro-2-butene	12.853	75	21186	31.726	ug/l #	15
85) n-Butylbenzene	14.064	91	775	0.214	ug/l #	82
88) 1,2-Dibromo-3-Chloropr...	14.711	75	190	0.549	ug/l #	2
89) 1,2,4-Trichlorobenzene	15.400	180	421	0.582	ug/l #	73
90) Hexachlorobutadiene	15.511	225	361	0.678	ug/l #	55
91) Naphthalene	15.647	128	1408	0.622	ug/l #	82
92) 1,2,3-Trichlorobenzene	15.841	180	265	0.312	ug/l #	16

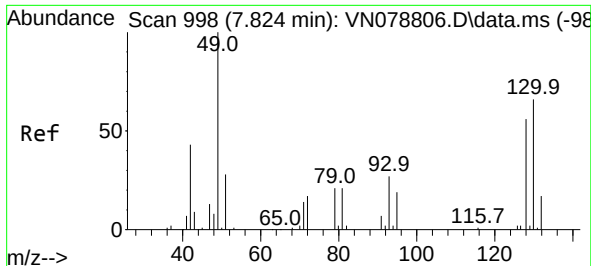
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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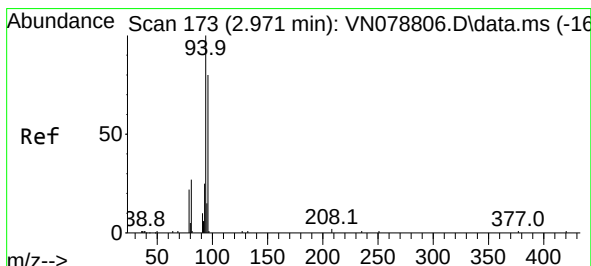
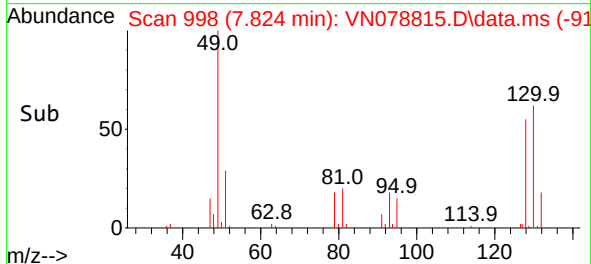
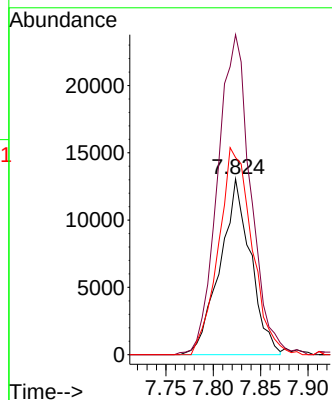
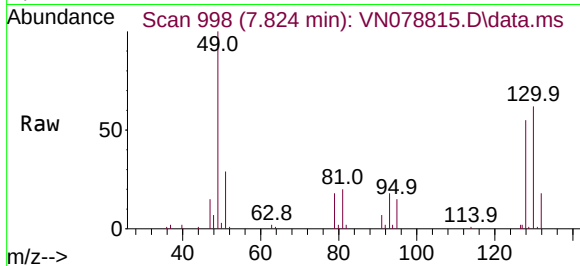




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

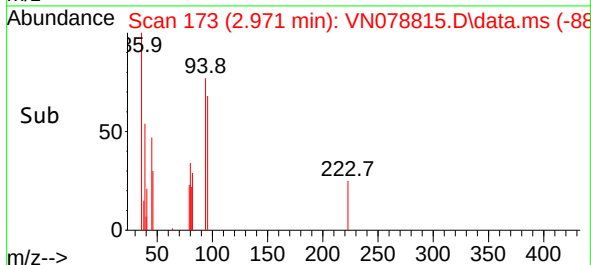
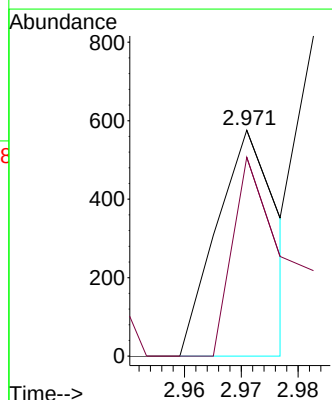
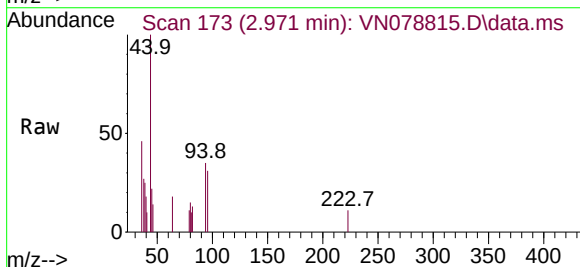
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

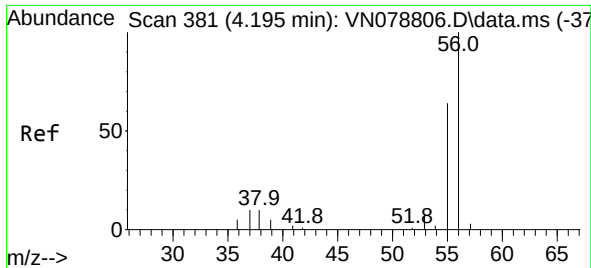
Tgt Ion:128 Resp: 29359
Ion Ratio Lower Upper
128 100
49 195.8 0.0 370.8
130 129.3 0.0 307.0



#5
Bromomethane
Concen: 0.261 ug/l
RT: 2.971 min Scan# 173
Delta R.T. -0.000 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion: 94 Resp: 436
Ion Ratio Lower Upper
94 100
96 88.0 73.9 110.9





#13

Acrolein

Concen: 0.327 ug/l

RT: 4.236 min Scan# 381

Delta R.T. 0.041 min

Lab File: VN078815.D

Acq: 09 Aug 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

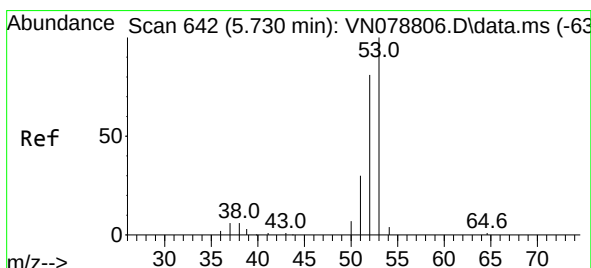
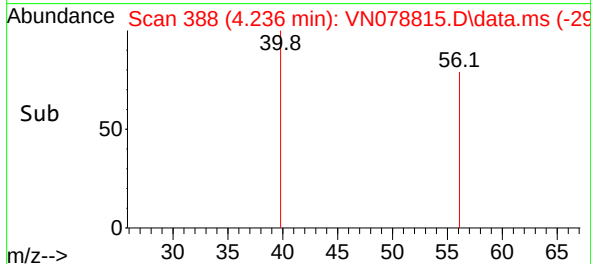
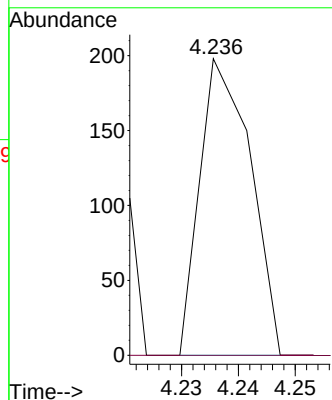
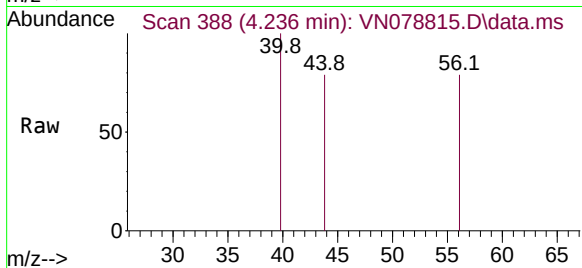
VN0809WBL01

Tgt Ion: 56 Resp: 123

Ion Ratio Lower Upper

56 100

55 0.0 59.0 88.4#



#14

Acrylonitrile

Concen: 0.374 ug/l

RT: 5.753 min Scan# 646

Delta R.T. 0.023 min

Lab File: VN078815.D

Acq: 09 Aug 2023 12:54

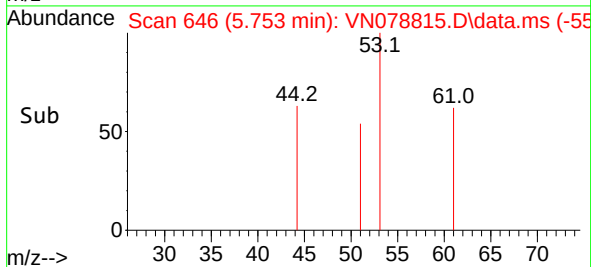
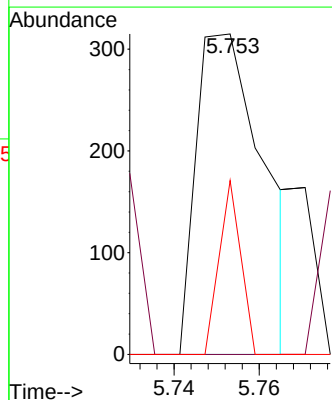
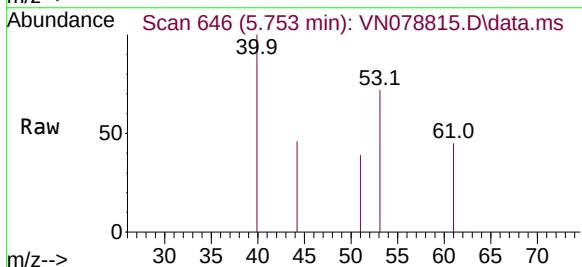
Tgt Ion: 53 Resp: 350

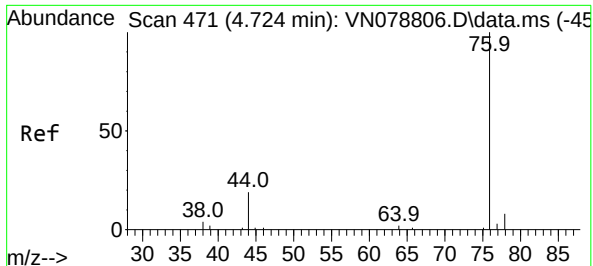
Ion Ratio Lower Upper

53 100

52 0.0 42.3 126.9#

51 0.0 18.4 55.4#

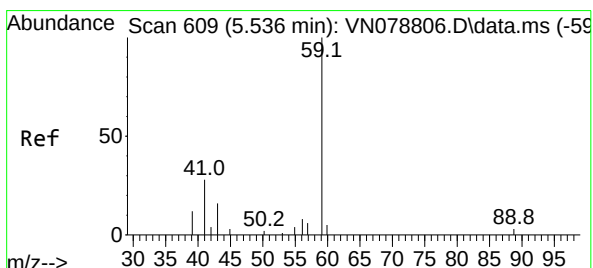
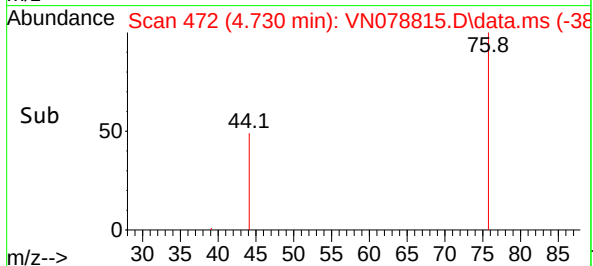
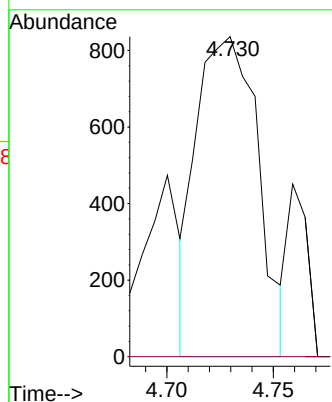
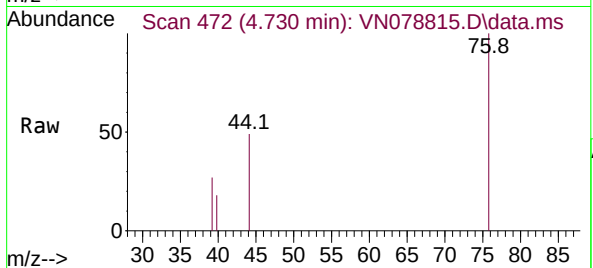




#16
Carbon Disulfide
Concen: 0.353 ug/l
RT: 4.730 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

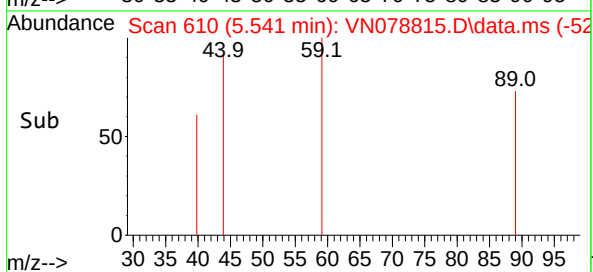
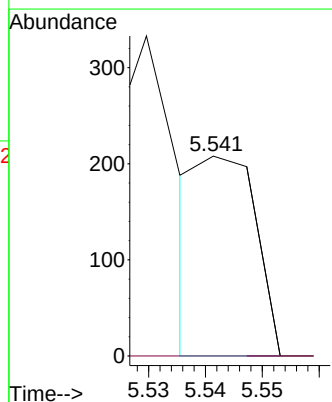
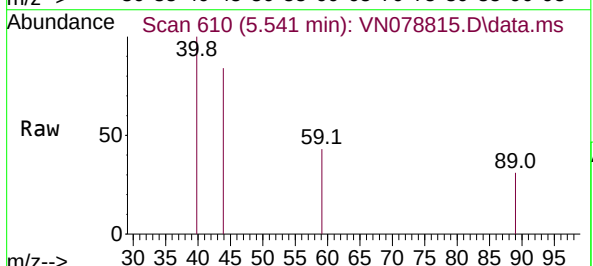
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

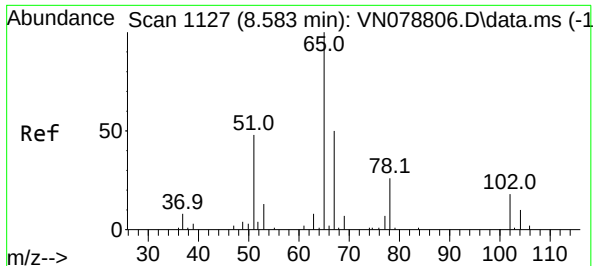
Tgt Ion: 76 Resp: 1671
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#23
tert-Butyl Alcohol
Concen: 0.411 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion: 59 Resp: 143
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

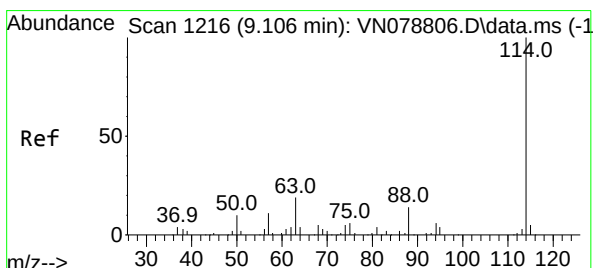
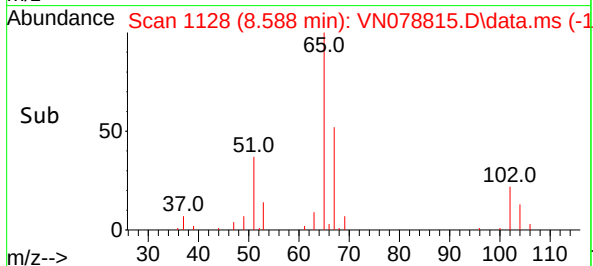
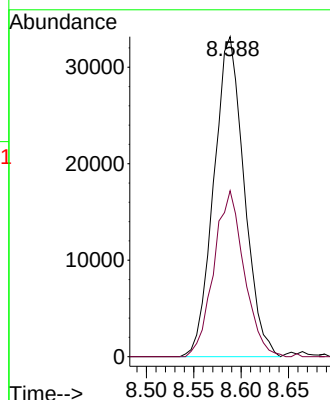
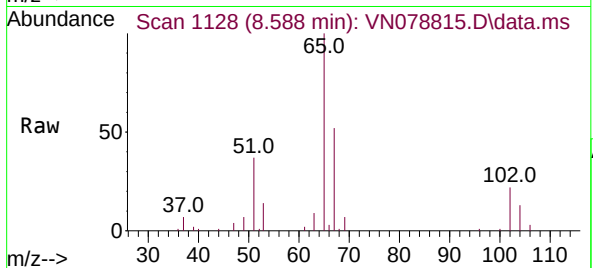




#27
1,2-Dichloroethane-d4
Concen: 31.234 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

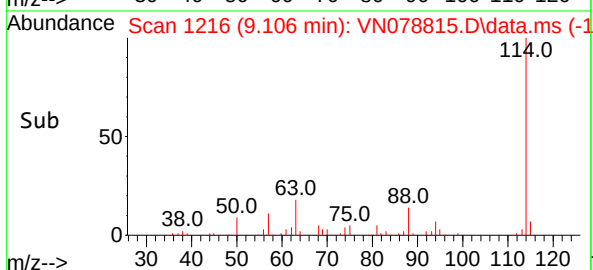
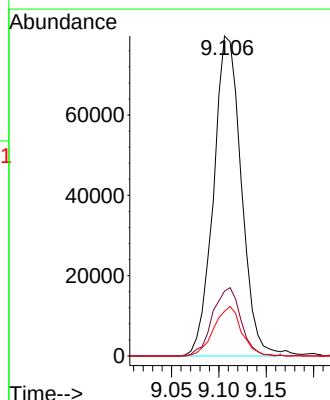
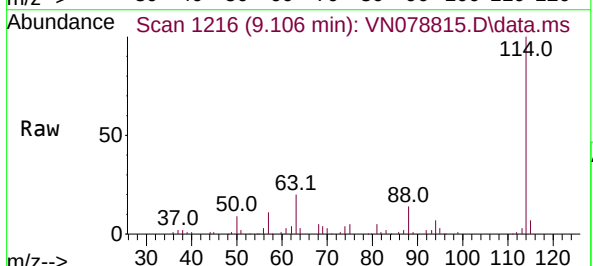
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

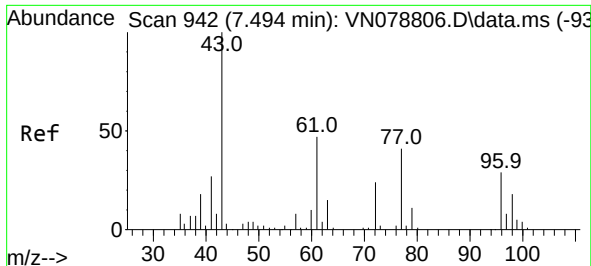
Tgt Ion: 65 Resp: 73827
Ion Ratio Lower Upper
65 100
67 51.9 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion: 114 Resp: 162519
Ion Ratio Lower Upper
114 100
63 21.7 15.2 22.8
88 15.3 12.5 18.7





#30

2-Butanone

Concen: 0.287 ug/l

RT: 7.494 min Scan# 94

Delta R.T. -0.000 min

Lab File: VN078815.D

Acq: 09 Aug 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBL01

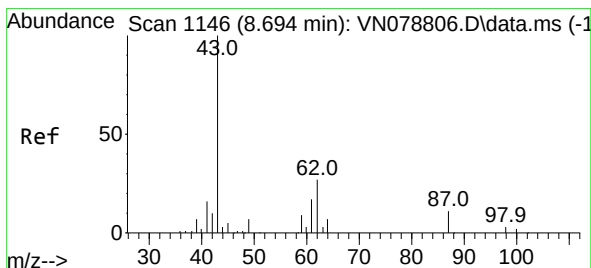
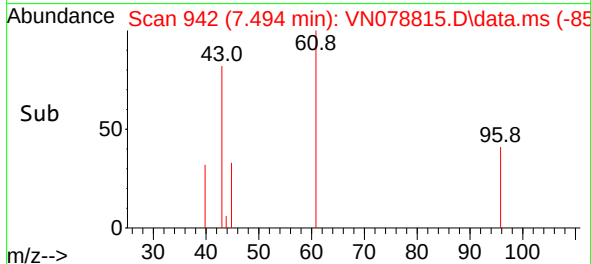
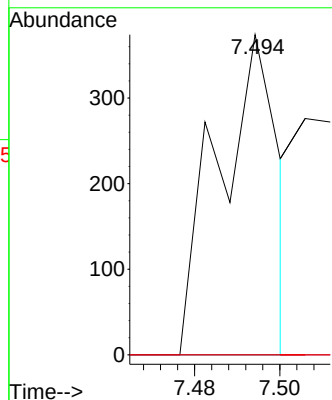
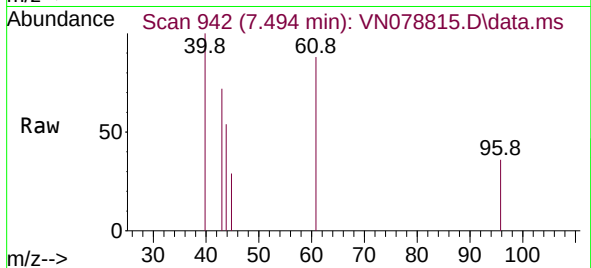
Tgt Ion: 43 Resp: 371

Ion Ratio Lower Upper

43 100

57 0.0 6.8 10.2#

72 0.0 23.8 35.6#



#44

Isopropyl Acetate

Concen: 0.300 ug/l

RT: 8.735 min Scan# 1153

Delta R.T. 0.041 min

Lab File: VN078815.D

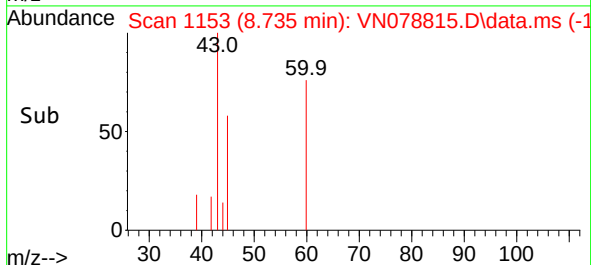
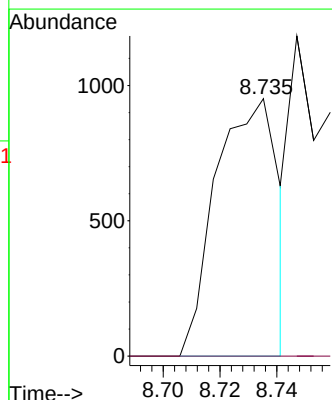
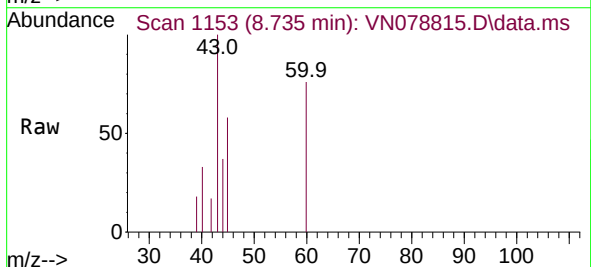
Acq: 09 Aug 2023 12:54

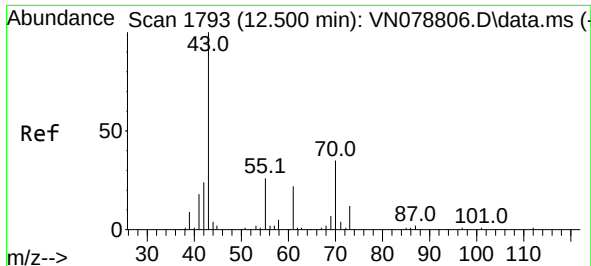
Tgt Ion: 43 Resp: 1449

Ion Ratio Lower Upper

43 100

61 117.7 23.0 34.6#





#47

n-amyl Acetate

Concen: 0.255 ug/l

RT: 12.500 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN078815.D

Acq: 09 Aug 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

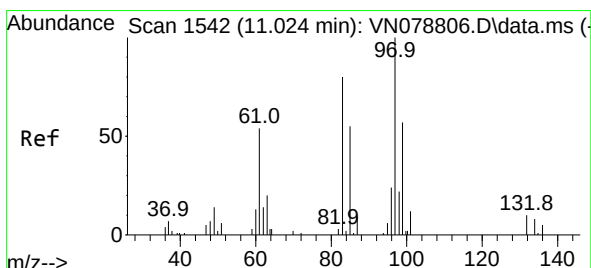
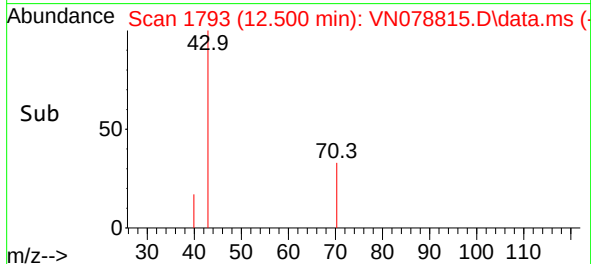
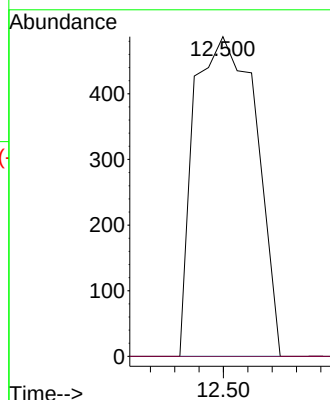
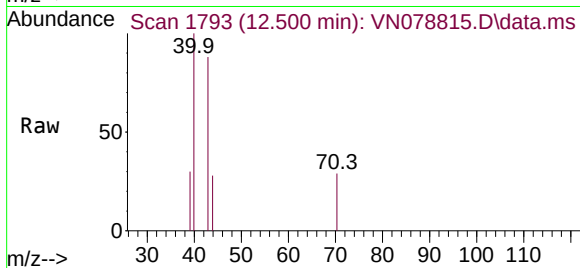
VN0809WBL01

Tgt Ion: 43 Resp: 861

Ion Ratio Lower Upper

43 100

55 0.0 21.5 32.3#



#50

1,1,2-Trichloroethane

Concen: 3.015 ug/l

RT: 10.582 min Scan# 1467

Delta R.T. -0.441 min

Lab File: VN078815.D

Acq: 09 Aug 2023 12:54

Tgt Ion: 97 Resp: 5798

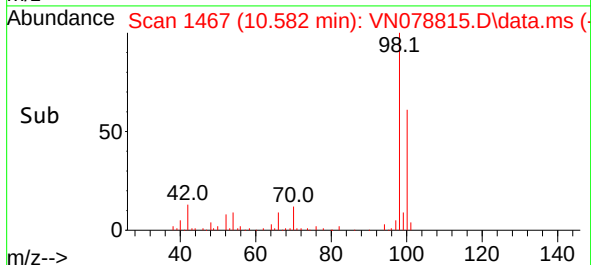
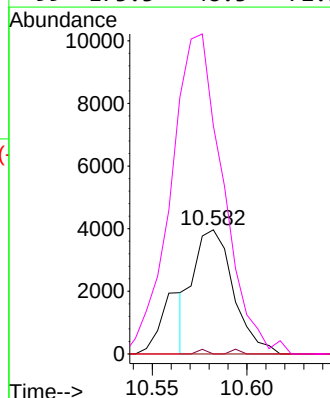
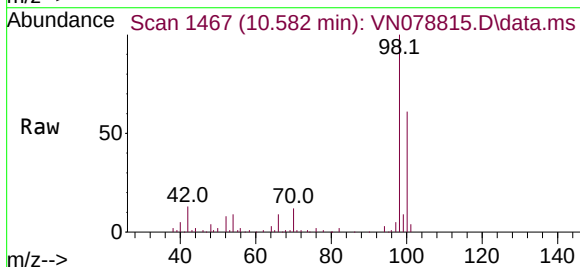
Ion Ratio Lower Upper

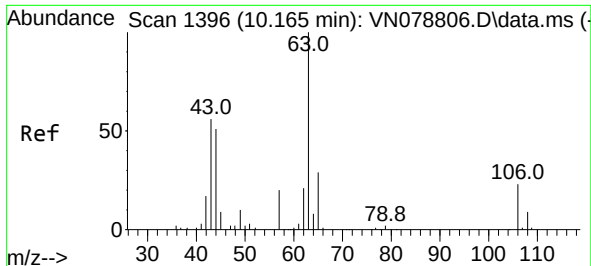
97 100

83 0.0 66.8 100.2#

85 0.0 42.5 63.7#

99 173.3 48.3 72.5#

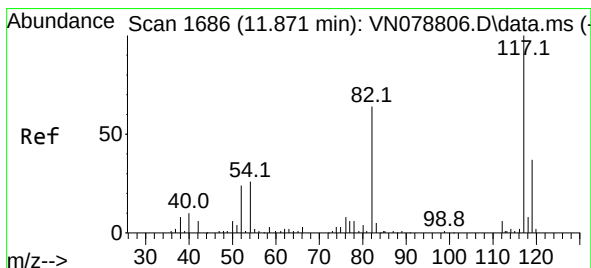
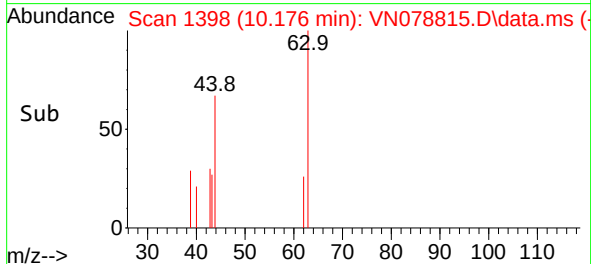
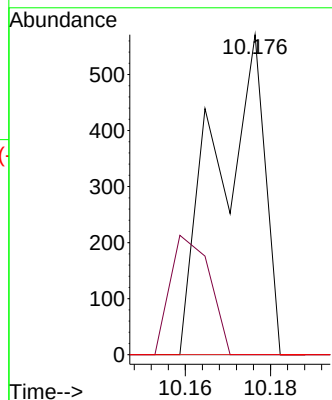
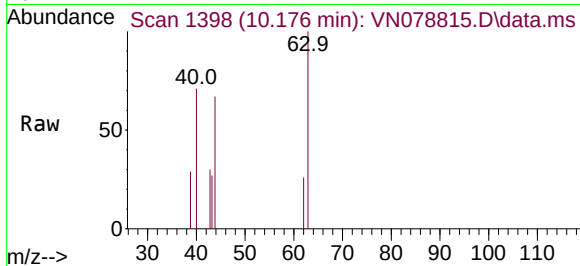




#55
2-Chloroethyl vinyl ether
Concen: 0.448 ug/l
RT: 10.176 min Scan# 1396
Delta R.T. 0.011 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

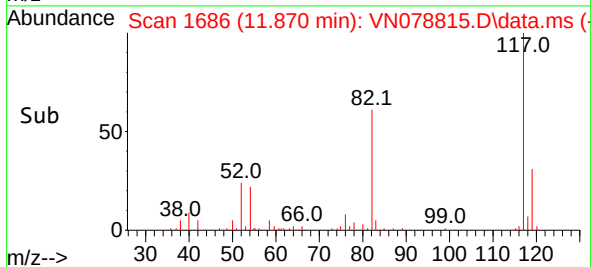
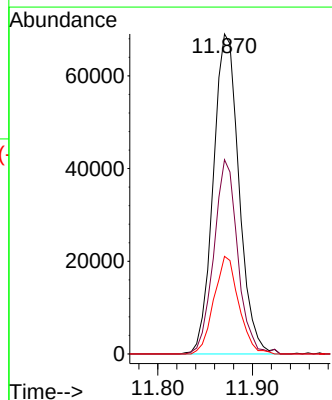
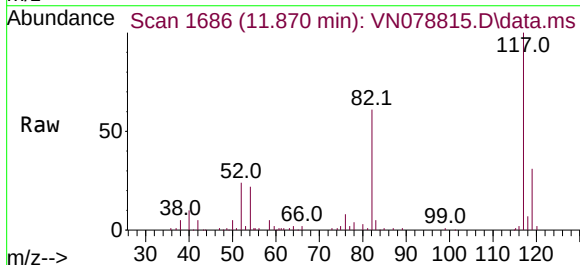
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

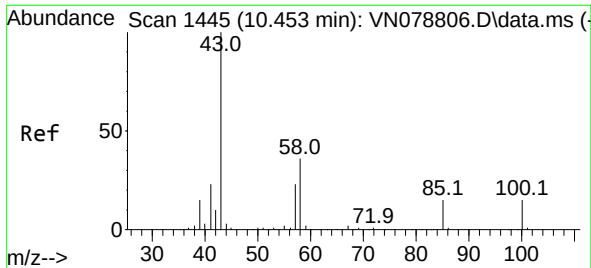
Tgt Ion: 63 Resp: 445
Ion Ratio Lower Upper
63 100
65 30.8 26.3 39.5
106 0.0 23.8 35.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion: 117 Resp: 130487
Ion Ratio Lower Upper
117 100
82 56.1 43.9 65.9
119 29.4 26.2 39.4

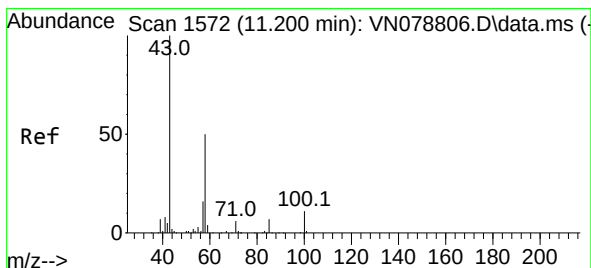
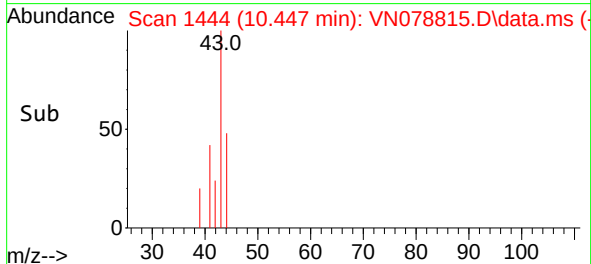
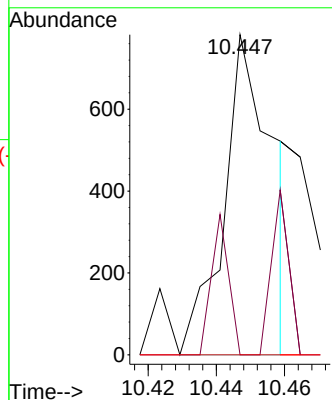
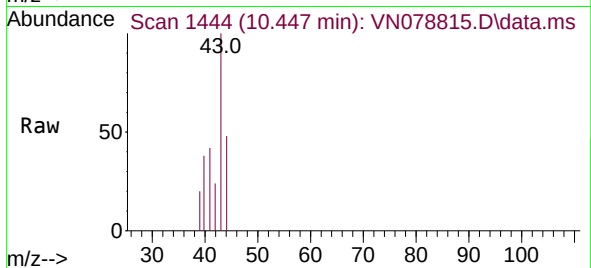




#58
4-Methyl-2-Pentanone
Concen: 0.313 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

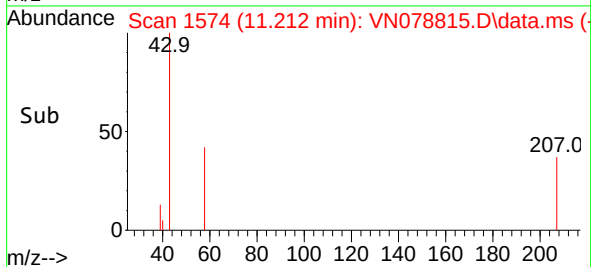
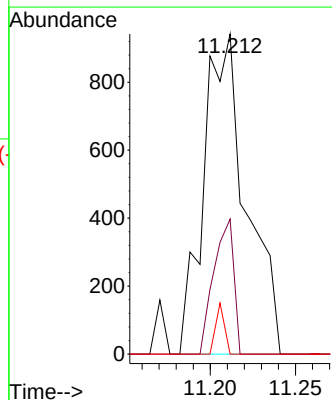
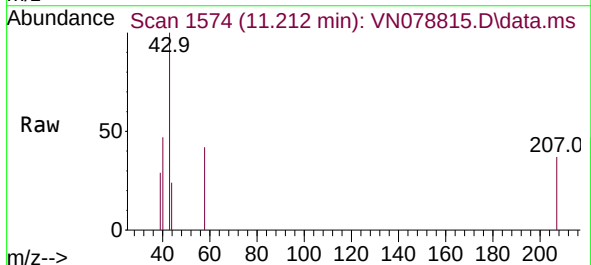
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

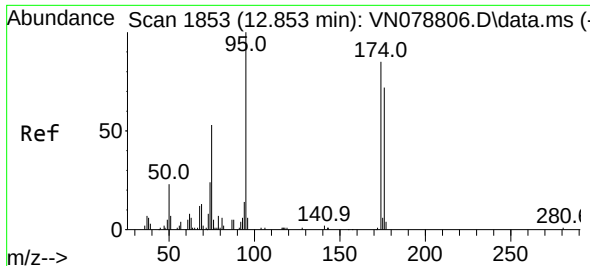
Tgt Ion: 43 Resp: 785
Ion Ratio Lower Upper
43 100
58 0.0 32.6 48.8#
85 0.0 16.2 24.2#



#59
2-Hexanone
Concen: 0.943 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.011 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion: 43 Resp: 1644
Ion Ratio Lower Upper
43 100
58 19.6 45.9 68.9#
57 0.0 15.8 23.6#

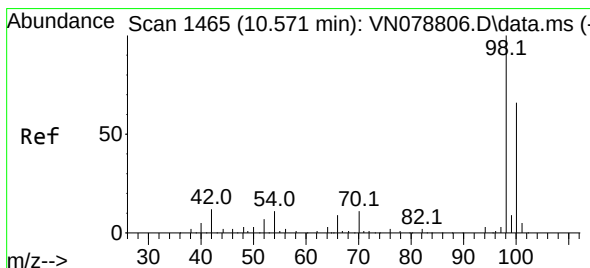
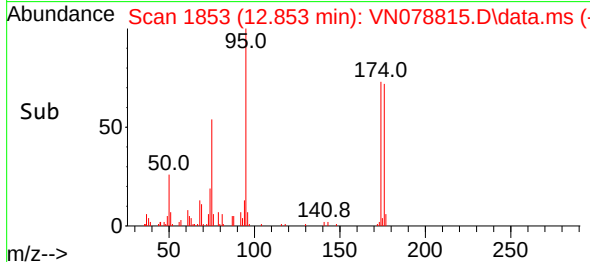
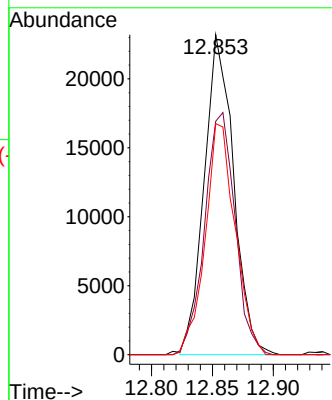
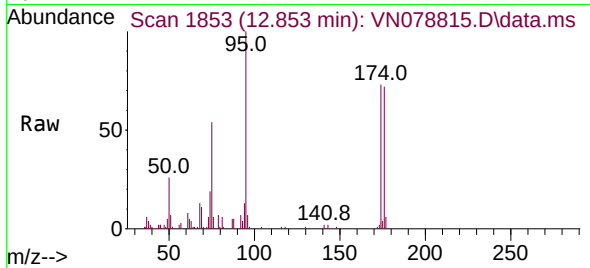




#60
4-Bromofluorobenzene
Concen: 21.277 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

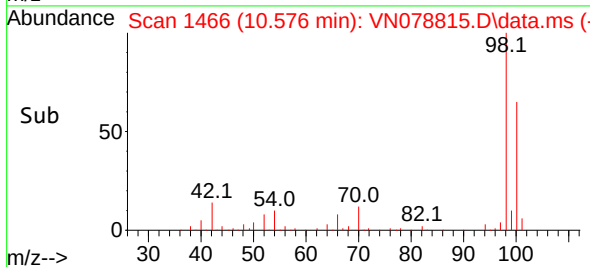
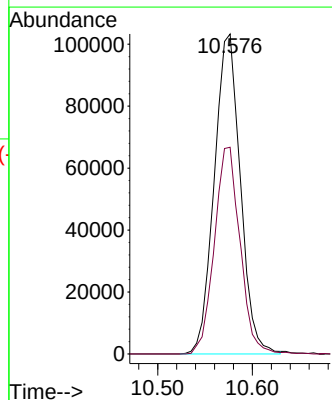
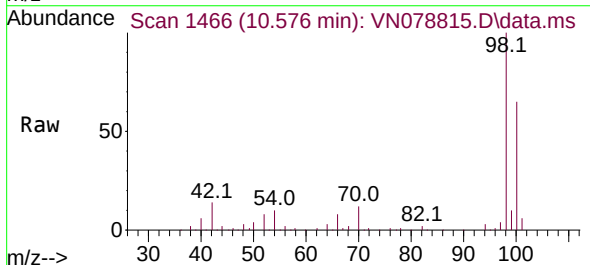
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

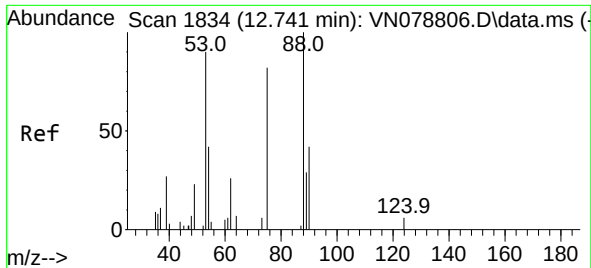
Tgt Ion: 95 Resp: 38972
Ion Ratio Lower Upper
95 100
174 78.3 61.7 92.5
176 73.7 58.1 87.1



#63
Toluene-d8
Concen: 30.927 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion: 98 Resp: 197758
Ion Ratio Lower Upper
98 100
100 63.4 49.7 74.5

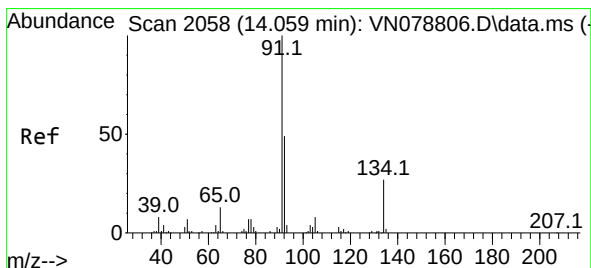
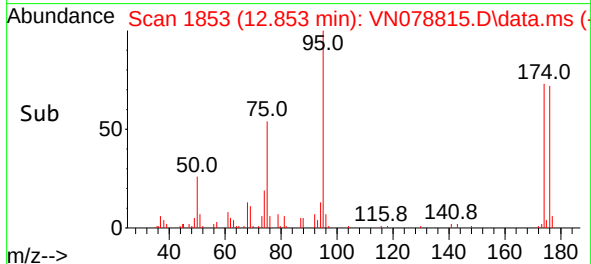
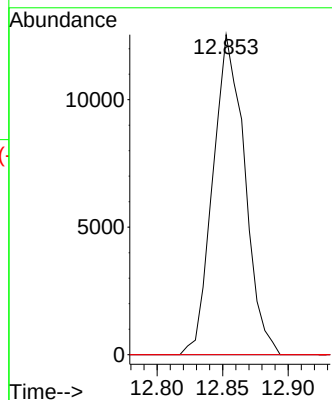
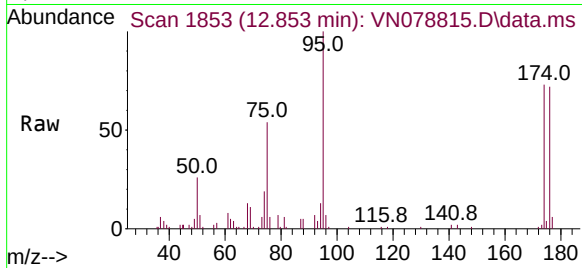




#77
t-1,4-Dichloro-2-butene
Concen: 31.726 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.111 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

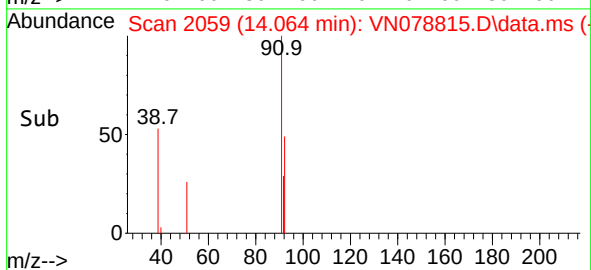
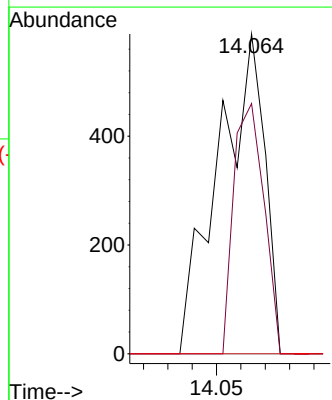
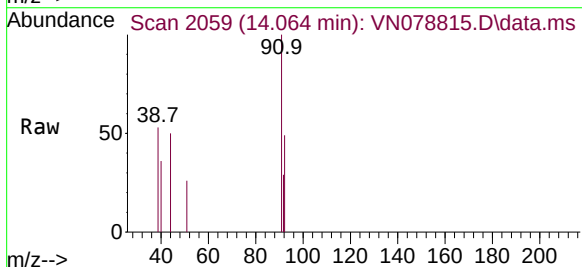
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

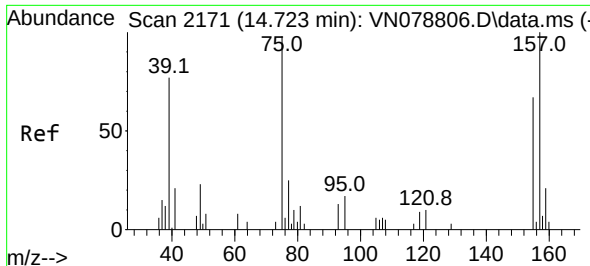
Tgt Ion: 75 Resp: 21186
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#



#85
n-Butylbenzene
Concen: 0.214 ug/l
RT: 14.064 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion: 91 Resp: 775
Ion Ratio Lower Upper
91 100
92 51.1 0.0 99.6
134 0.0 0.0 50.0

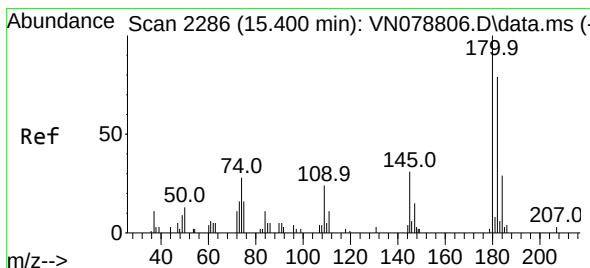
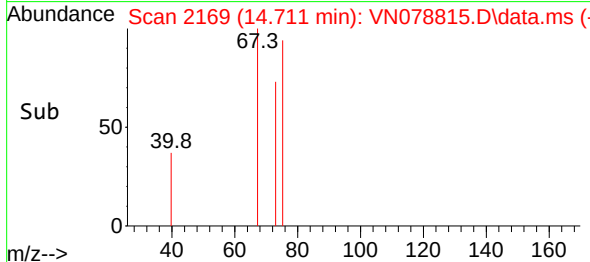
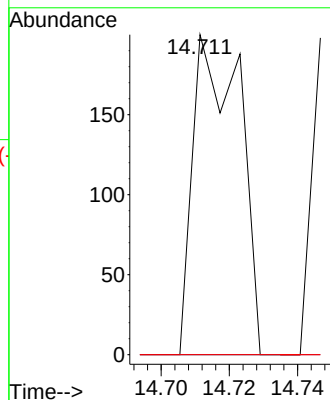
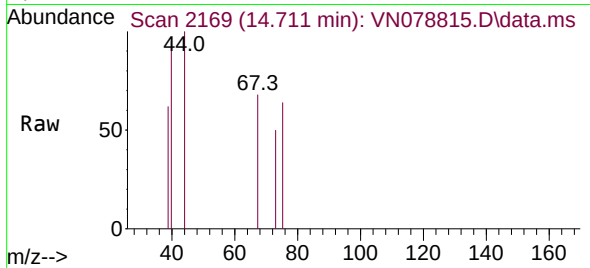




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.549 ug/l
 RT: 14.711 min Scan# 2171
 Delta R.T. -0.012 min
 Lab File: VN078815.D
 Acq: 09 Aug 2023 12:54

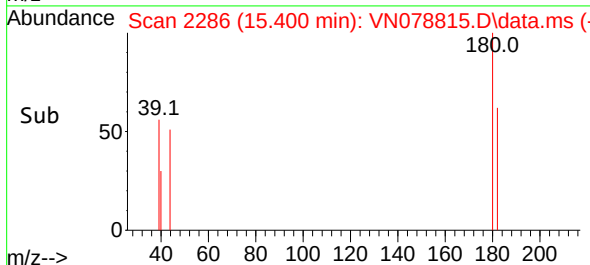
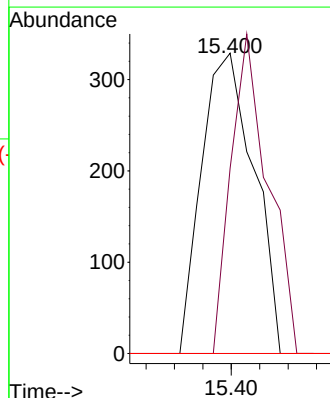
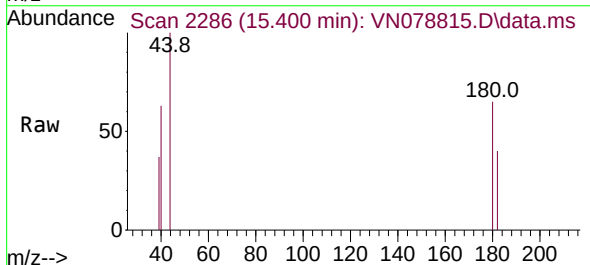
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBL01

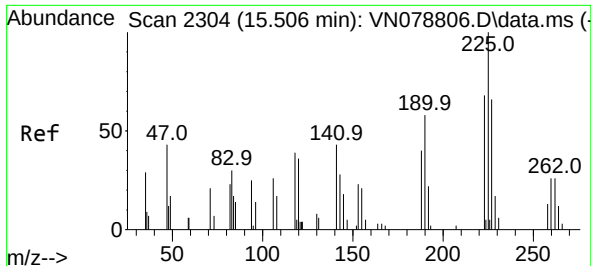
Tgt Ion: 75 Resp: 190
 Ion Ratio Lower Upper
 75 100
 155 0.0 68.2 102.2#
 157 0.0 84.7 127.1#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.582 ug/l
 RT: 15.400 min Scan# 2286
 Delta R.T. -0.000 min
 Lab File: VN078815.D
 Acq: 09 Aug 2023 12:54

Tgt Ion: 180 Resp: 421
 Ion Ratio Lower Upper
 180 100
 182 75.8 73.7 110.5
 145 0.0 25.0 37.6#

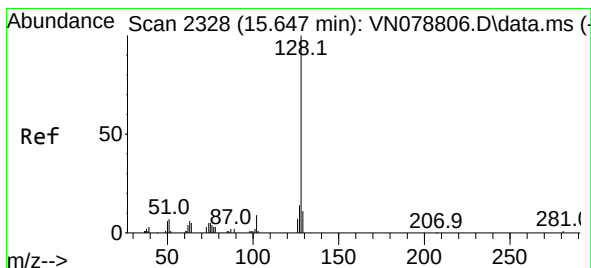
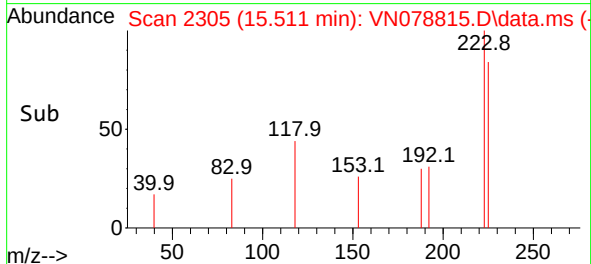
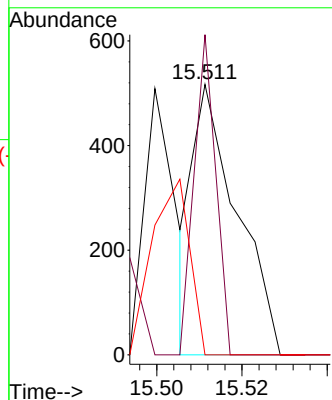
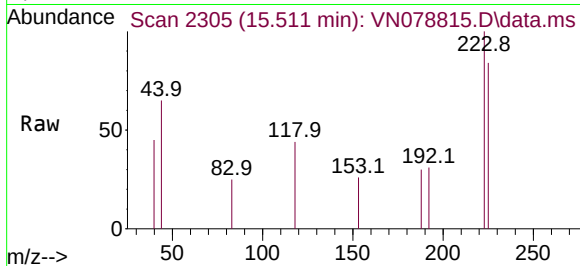




#90
Hexachlorobutadiene
Concen: 0.678 ug/l
RT: 15.511 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

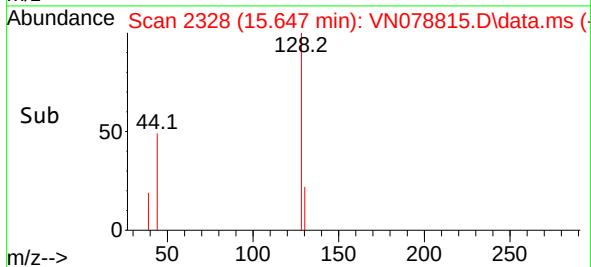
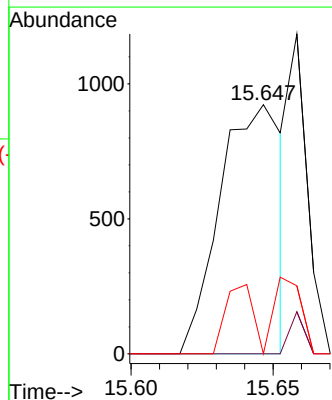
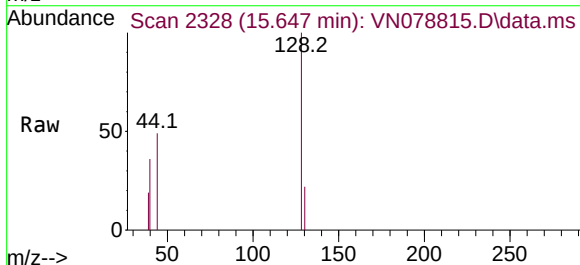
Instrument :
MSVOA_N
ClientSampleId :
VN0809WBL01

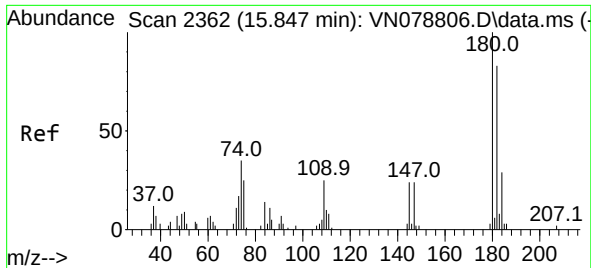
Tgt Ion:225 Resp: 361
Ion Ratio Lower Upper
225 100
223 0.0 0.0 130.0
227 57.1 0.0 124.0



#91
Naphthalene
Concen: 0.622 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078815.D
Acq: 09 Aug 2023 12:54

Tgt Ion:128 Resp: 1408
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 12.3 9.0 13.4





#92

1,2,3-Trichlorobenzene

Concen: 0.312 ug/l

RT: 15.841 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078815.D

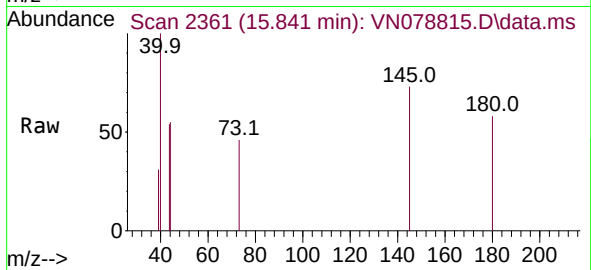
Acq: 09 Aug 2023 12:54

Instrument :

MSVOA_N

ClientSampleId :

VN0809WBL01



Tgt Ion:180 Resp: 265

Ion Ratio Lower Upper

180 100

182 21.5 0.0 196.4

145 95.5 0.0 71.0#

