

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
 Data File : VN079598.D
 Acq On : 18 Oct 2023 13:35
 Operator : JC\MD
 Sample : VN1018WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 19 06:14:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

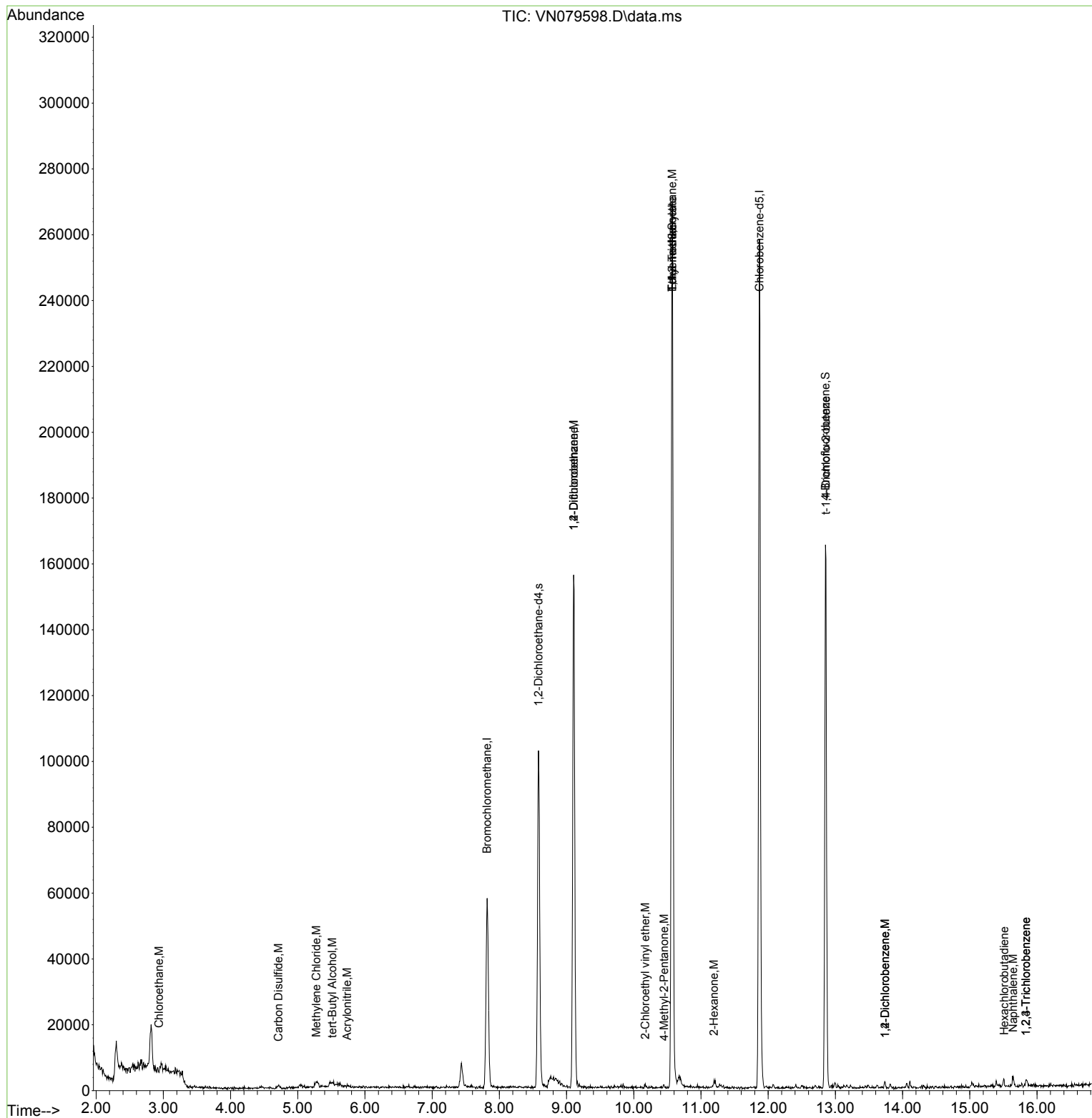
Internal Standards						
1) Bromochloromethane	7.818	128	18838	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	129943	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	151120	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	83308	31.104	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.667%
60) 4-Bromofluorobenzene	12.853	95	58746	21.257	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	70.867%
63) Toluene-d8	10.571	98	189018	29.189	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.300%
Target Compounds						
					Qvalue	
6) Chloroethane	2.936	64	1020	0.379	ug/l	95
14) Acrylonitrile	5.736	53	425	0.290	ug/l #	17
16) Carbon Disulfide	4.712	76	1968	0.254	ug/l #	74
18) Methylene Chloride	5.277	84	654	0.209	ug/l #	55
23) tert-Butyl Alcohol	5.512	59	335	0.684	ug/l #	100
36) 1,2-Dichloroethane	9.106	62	5565	1.351	ug/l #	75
50) 1,1,2-Trichloroethane	10.571	97	3471	1.252	ug/l #	1
51) Ethyl methacrylate	10.571	69	1081	0.283	ug/l	89
55) 2-Chloroethyl vinyl ether	10.171	63	437	0.299	ug/l #	45
58) 4-Methyl-2-Pentanone	10.453	43	953	0.270	ug/l #	71
59) 2-Hexanone	11.194	43	672	0.260	ug/l #	85
77) t-1,4-Dichloro-2-butene	12.859	75	31824	29.905	ug/l #	7
84) 1,4-Dichlorobenzene	13.741	146	831	0.208	ug/l	95
87) 1,2-Dichlorobenzene	13.741	146	831	0.200	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	937	0.641	ug/l #	92
90) Hexachlorobutadiene	15.511	225	655	0.633	ug/l	61
91) Naphthalene	15.647	128	3176	0.843	ug/l #	89
92) 1,2,3-Trichlorobenzene	15.835	180	937	0.641	ug/l	92

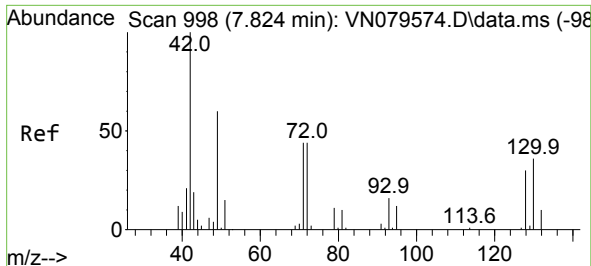
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101823\
Data File : VN079598.D
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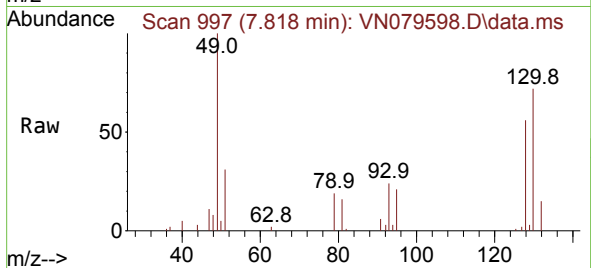
Quant Time: Oct 19 06:14:08 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
Response via : Initial Calibration



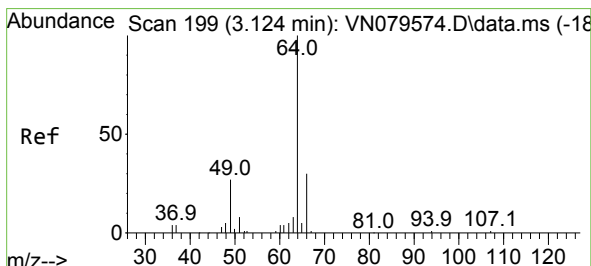
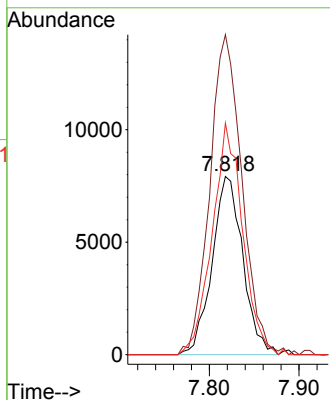
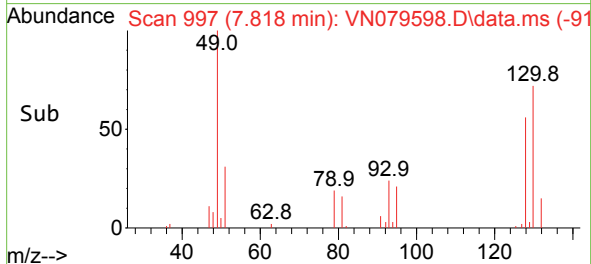


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

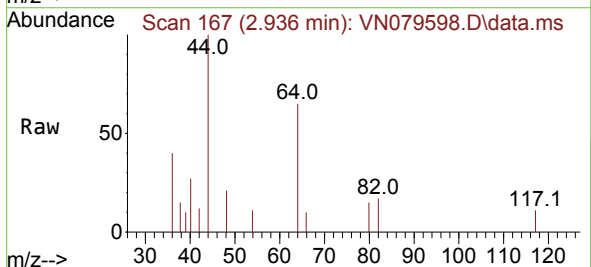
Instrument :
MSVOA_N
ClientSampleId :



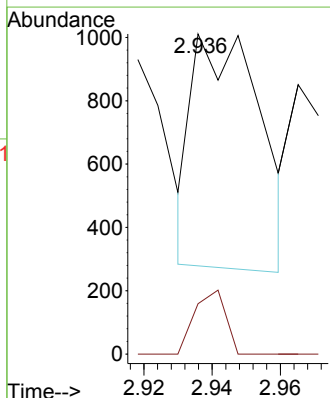
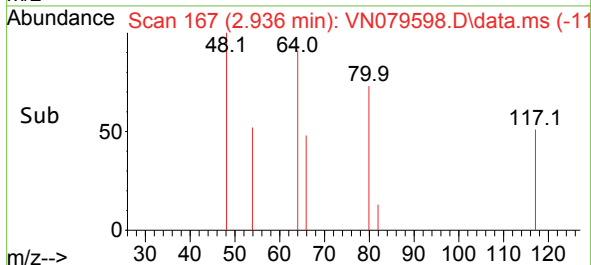
Tgt Ion:128 Resp: 18838
Ion Ratio Lower Upper
128 100
49 186.8 0.0 468.5
130 128.4 0.0 320.7

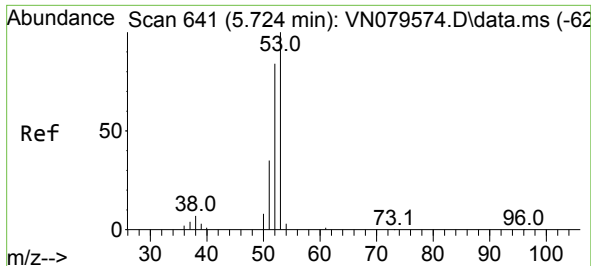


#6
Chloroethane
Concen: 0.379 ug/l
RT: 2.936 min Scan# 167
Delta R.T. -0.188 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35



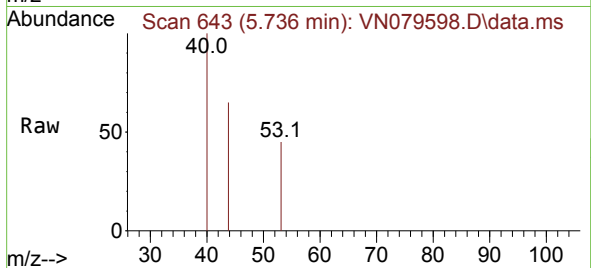
Tgt Ion: 64 Resp: 1020
Ion Ratio Lower Upper
64 100
66 31.7 23.3 34.9



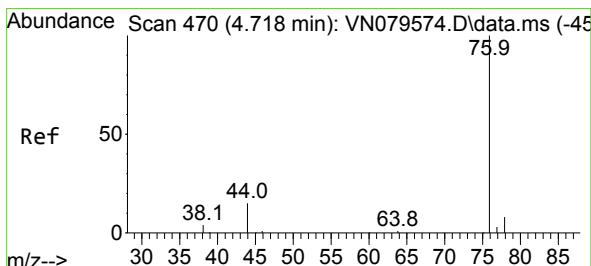
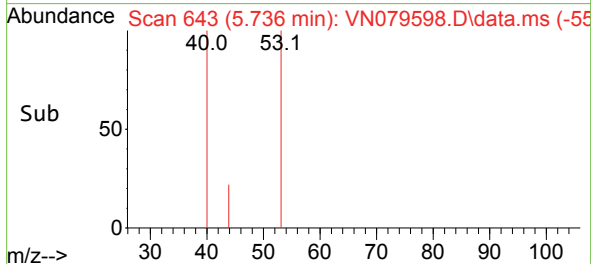
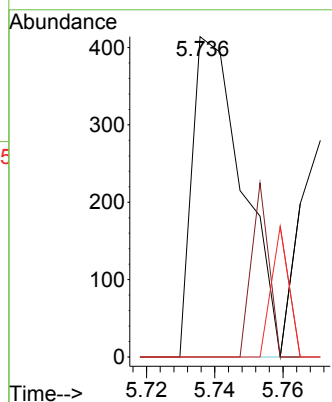


#14
Acrylonitrile
Concen: 0.290 ug/l
RT: 5.736 min Scan# 641
Delta R.T. 0.012 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

Instrument :
MSVOA_N
ClientSampleId :

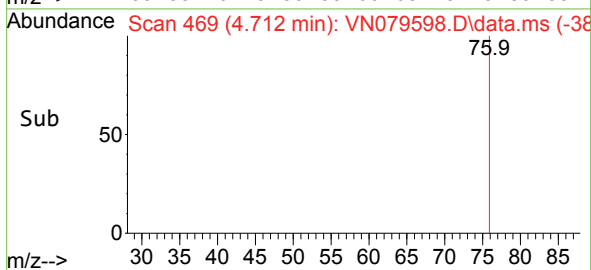
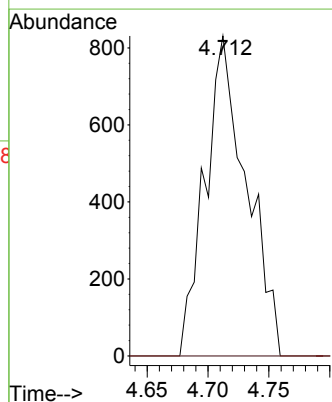
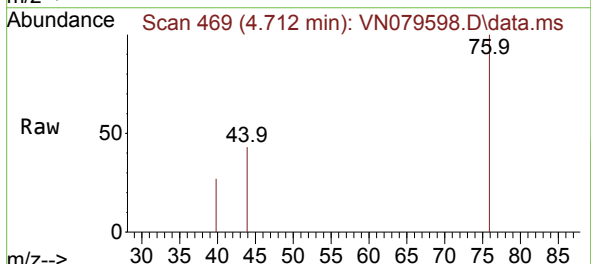


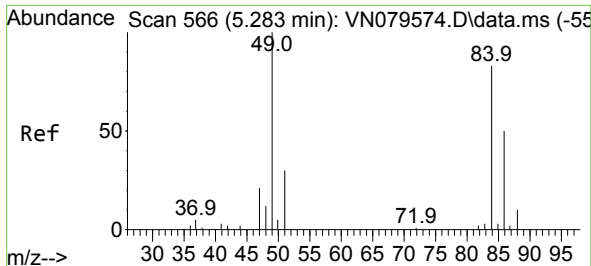
Tgt Ion: 53 Resp: 425
Ion Ratio Lower Upper
53 100
52 0.0 41.6 124.9#
51 0.0 17.8 53.3#



#16
Carbon Disulfide
Concen: 0.254 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.006 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

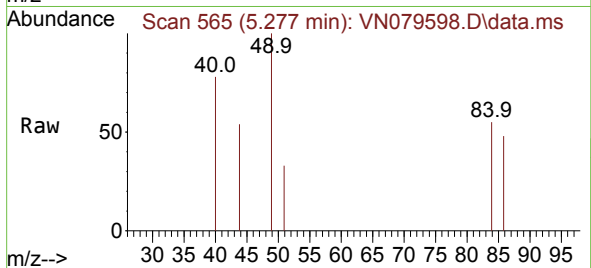
Tgt Ion: 76 Resp: 1968
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#





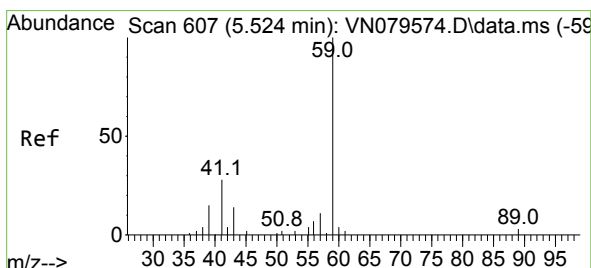
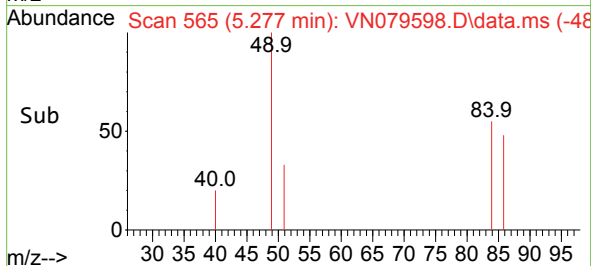
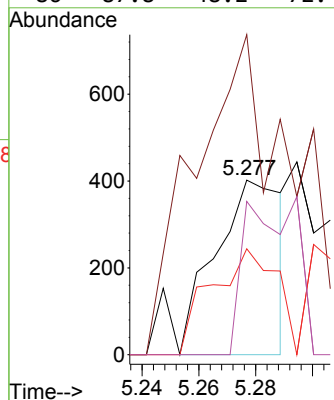
#18
Methylene Chloride
Concen: 0.209 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 654

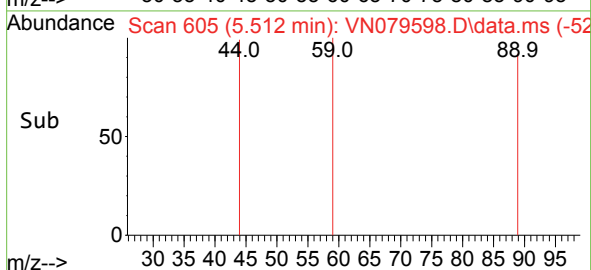
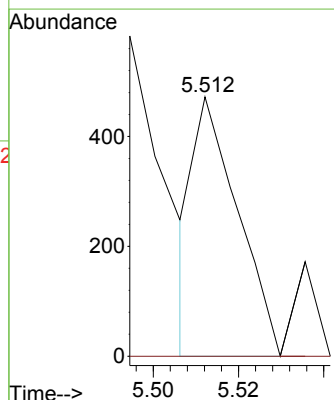
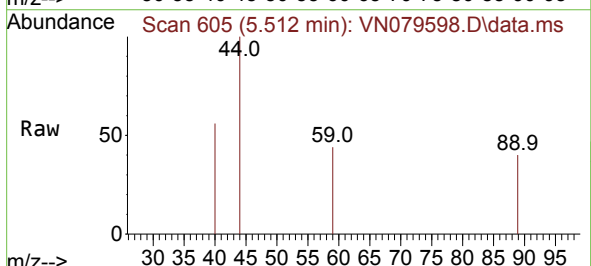
Ion	Ratio	Lower	Upper
84	100		
49	69.2	100.9	151.3#
51	60.7	29.4	44.2#
86	87.8	48.2	72.4#

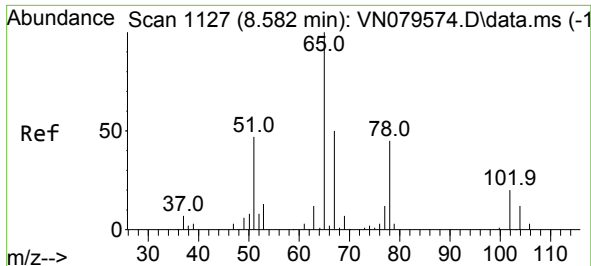


#23
tert-Butyl Alcohol
Concen: 0.684 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

Tgt Ion: 59 Resp: 335

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#27

1,2-Dichloroethane-d4

Concen: 31.104 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079598.D

Acq: 18 Oct 2023 13:35

Instrument :

MSVOA_N

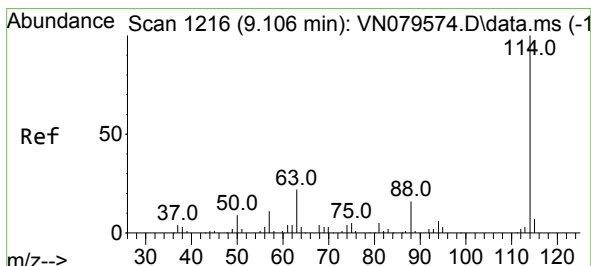
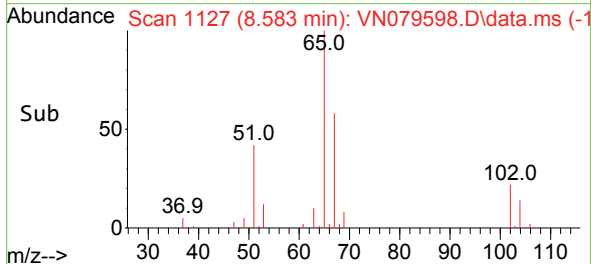
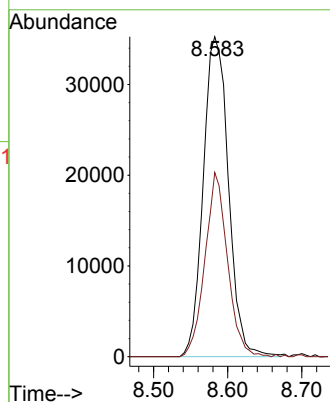
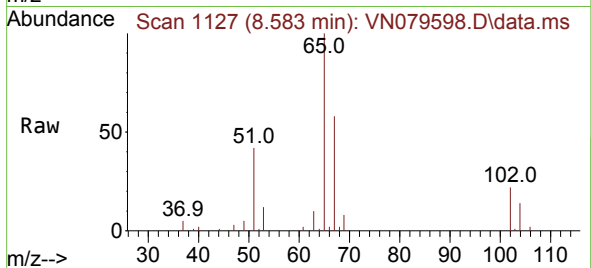
ClientSampleId :

Tgt Ion: 65 Resp: 83308

Ion Ratio Lower Upper

65 100

67 51.5 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079598.D

Acq: 18 Oct 2023 13:35

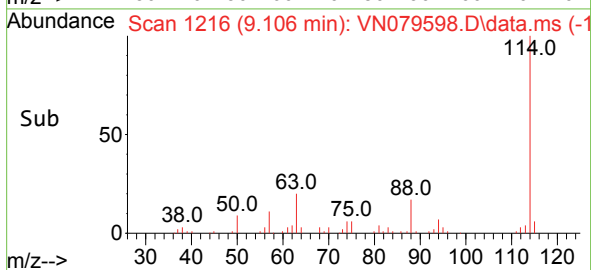
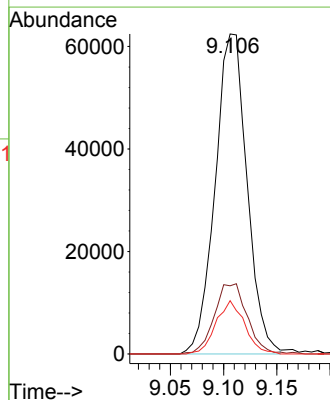
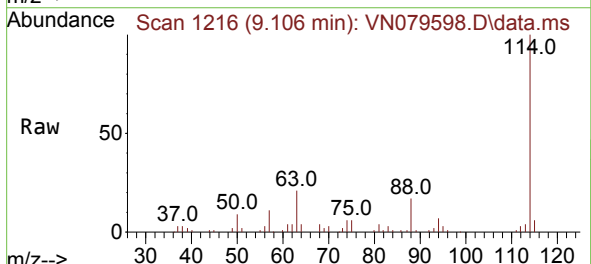
Tgt Ion: 114 Resp: 129943

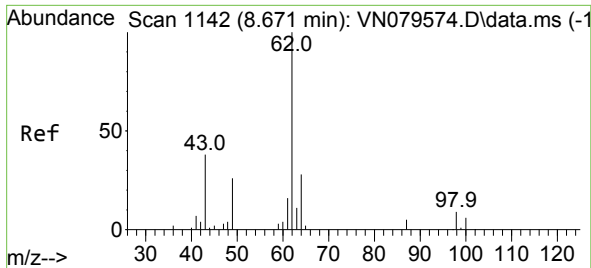
Ion Ratio Lower Upper

114 100

63 22.6 18.1 27.1

88 15.0 12.2 18.2

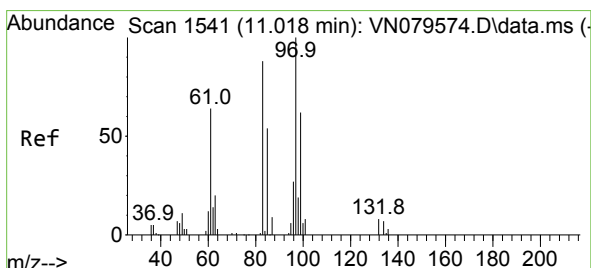
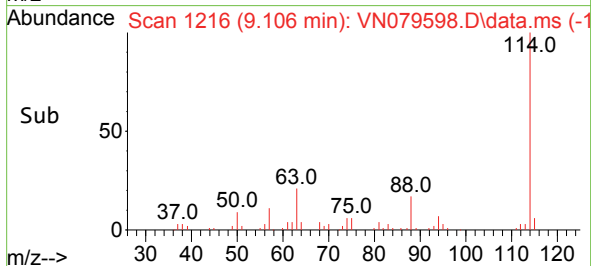
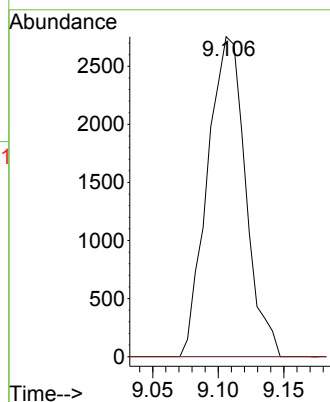
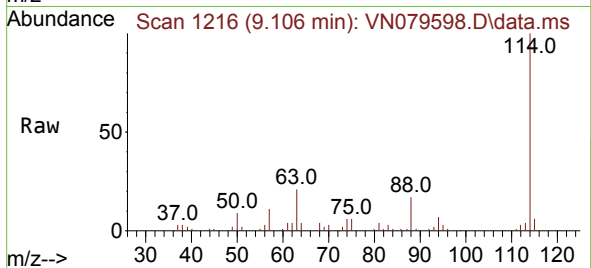




#36
 1,2-Dichloroethane
 Concen: 1.351 ug/l
 RT: 9.106 min Scan# 1142
 Delta R.T. 0.435 min
 Lab File: VN079598.D
 Acq: 18 Oct 2023 13:35

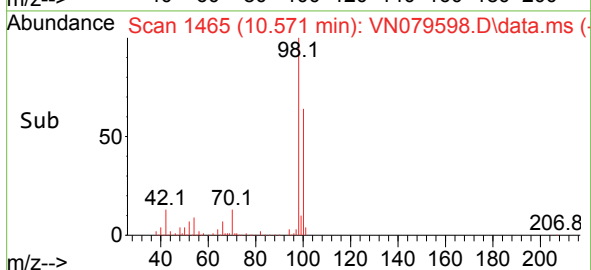
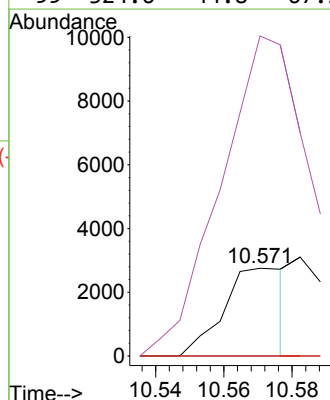
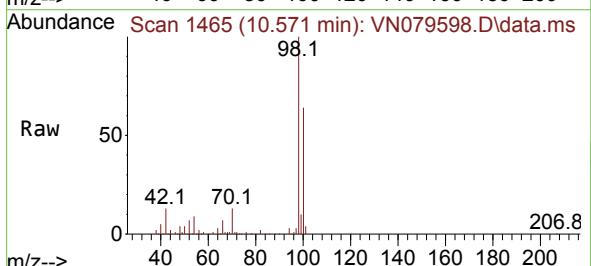
Instrument :
 MSVOA_N
 ClientSampleId :

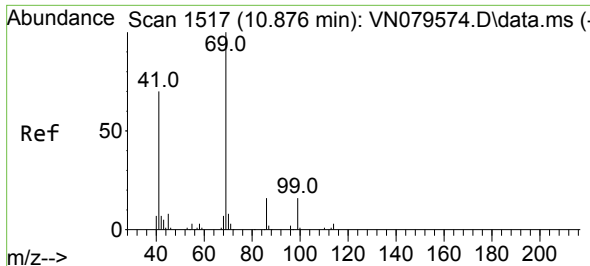
Tgt Ion: 62 Resp: 5565
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.2 10.8#



#50
 1,1,2-Trichloroethane
 Concen: 1.252 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.447 min
 Lab File: VN079598.D
 Acq: 18 Oct 2023 13:35

Tgt Ion: 97 Resp: 3471
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.2 102.4#
 85 0.0 42.9 64.3#
 99 324.6 44.8 67.2#

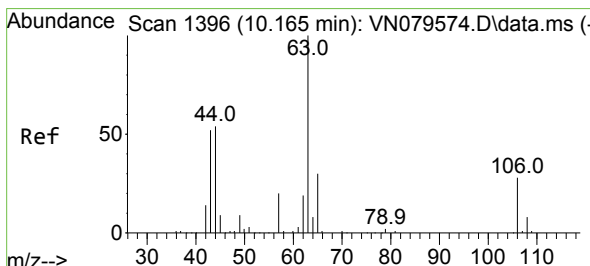
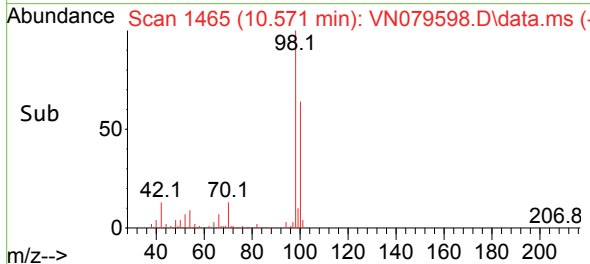
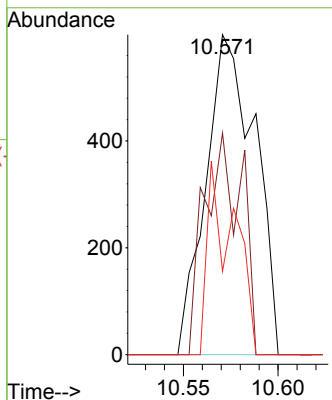
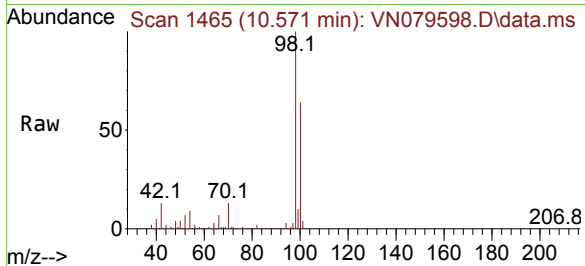




#51
Ethyl methacrylate
Concen: 0.283 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.306 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

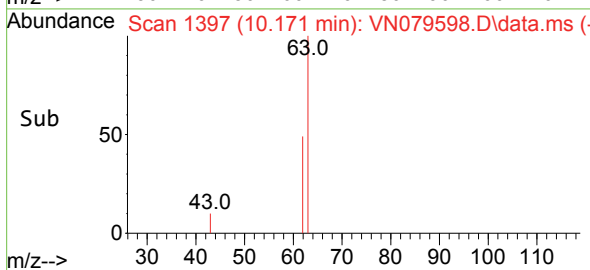
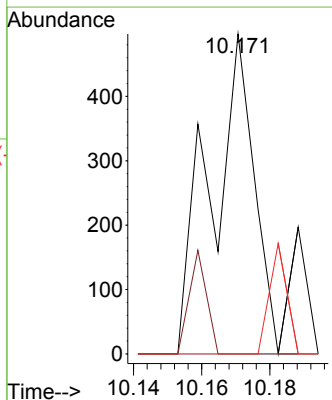
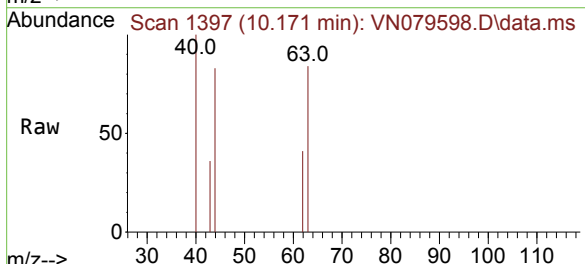
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MSVOA_N
ClientSampleId :

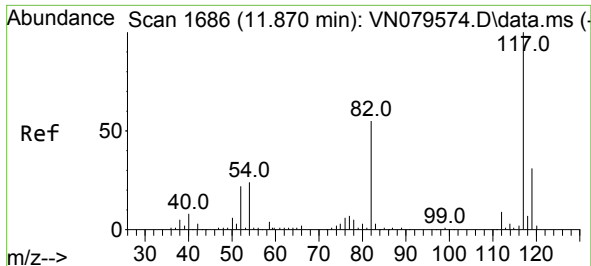
Tgt Ion: 69 Resp: 1081
Ion Ratio Lower Upper
69 100
41 69.3 33.8 101.3
39 26.0 21.3 63.9



#55
2-Chloroethyl vinyl ether
Concen: 0.299 ug/l
RT: 10.171 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

Tgt Ion: 63 Resp: 437
Ion Ratio Lower Upper
63 100
65 0.0 25.9 38.9#
106 0.0 20.6 30.8#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079598.D

Acq: 18 Oct 2023 13:35

Instrument :

MSVOA_N

ClientSampleId :

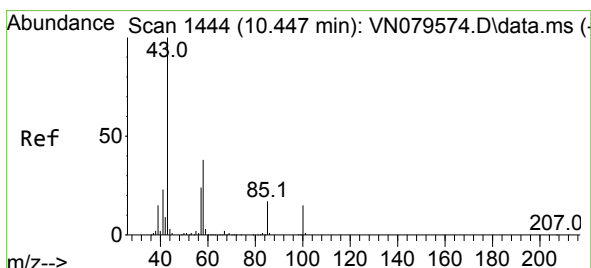
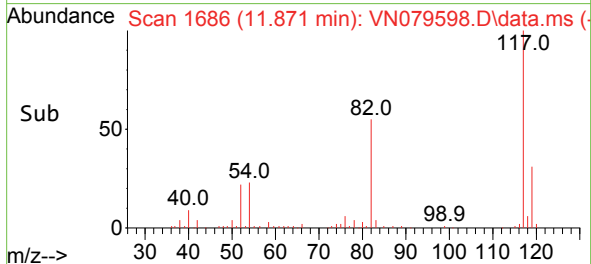
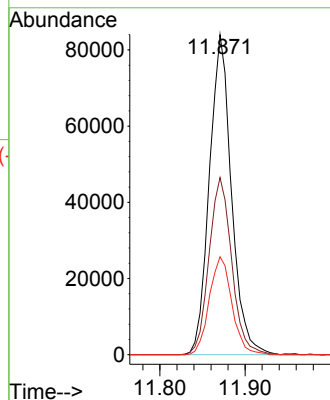
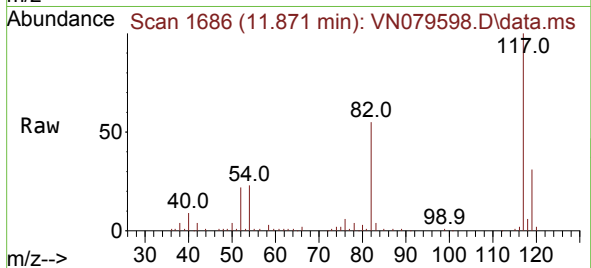
Tgt Ion:117 Resp: 151120

Ion Ratio Lower Upper

117 100

82 56.9 46.2 69.2

119 31.3 25.2 37.8



#58

4-Methyl-2-Pentanone

Concen: 0.270 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.006 min

Lab File: VN079598.D

Acq: 18 Oct 2023 13:35

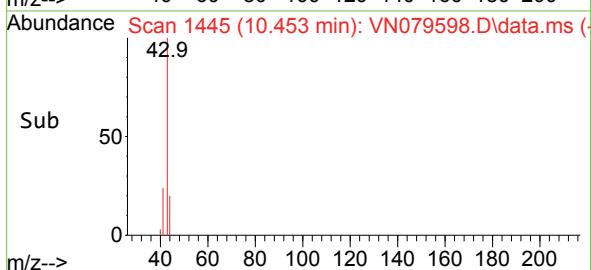
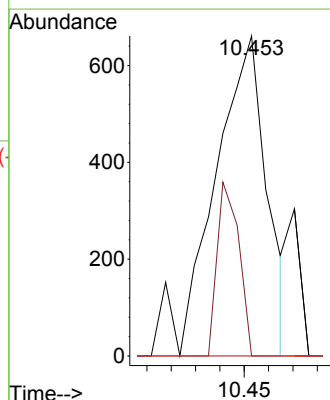
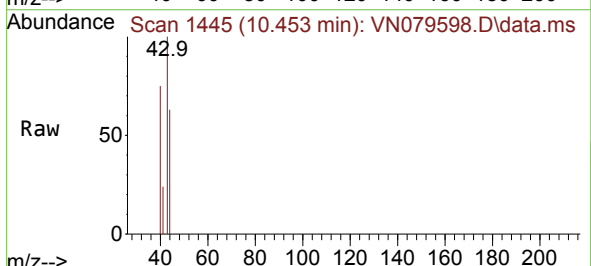
Tgt Ion: 43 Resp: 953

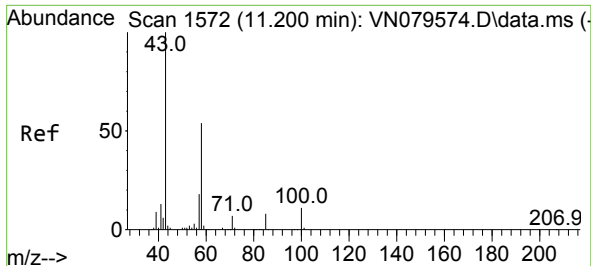
Ion Ratio Lower Upper

43 100

58 23.3 30.4 45.6#

85 0.0 13.2 19.8#

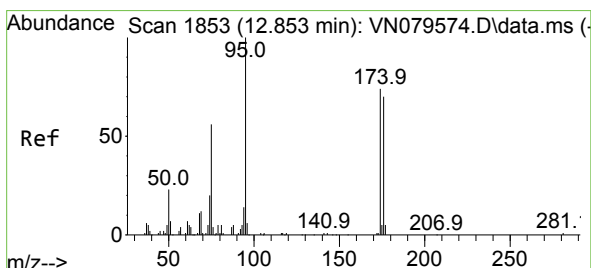
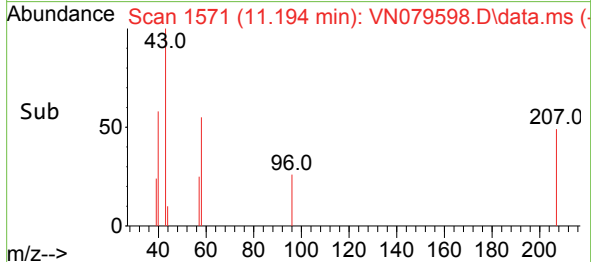
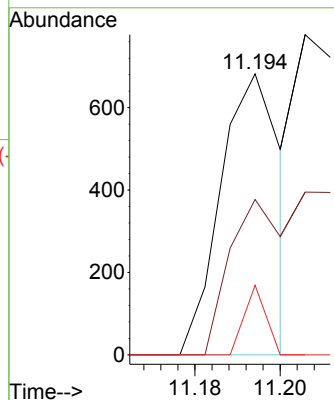
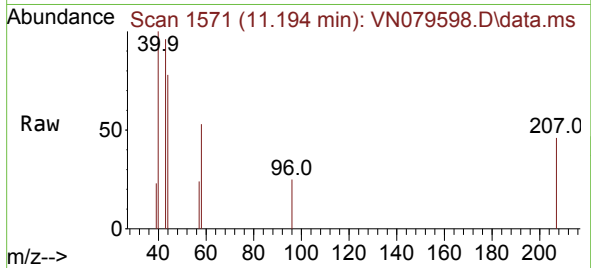




#59
2-Hexanone
Concen: 0.260 ug/l
RT: 11.194 min Scan# 111
Delta R.T. -0.006 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

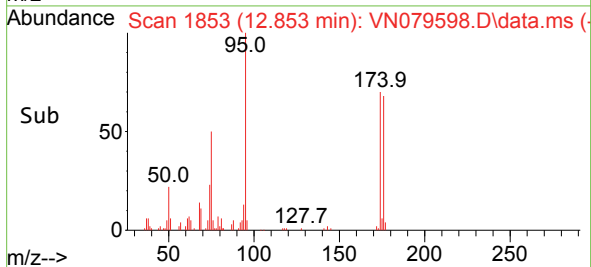
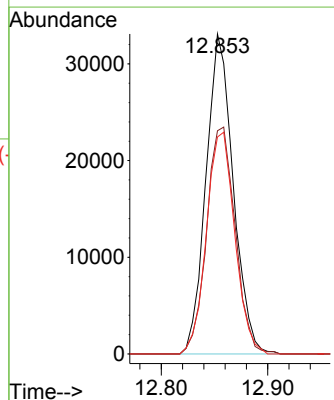
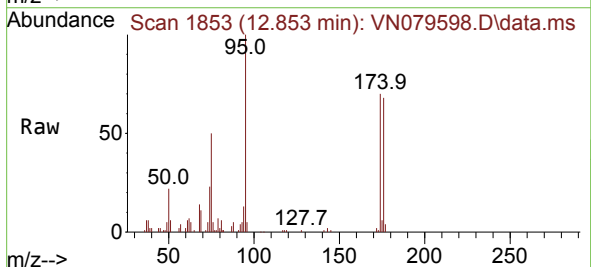
Instrument :
MSVOA_N
ClientSampleId :

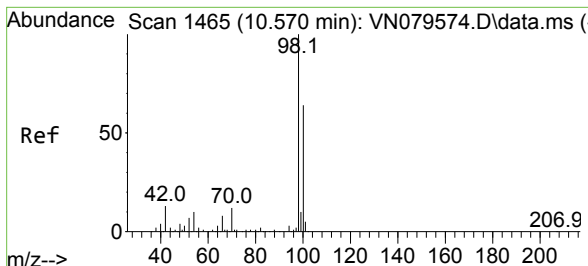
Tgt Ion: 43 Resp: 672
Ion Ratio Lower Upper
43 100
58 48.5 42.3 63.5
57 0.0 13.9 20.9#



#60
4-Bromofluorobenzene
Concen: 21.257 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

Tgt Ion: 95 Resp: 58746
Ion Ratio Lower Upper
95 100
174 74.5 60.5 90.7
176 72.2 57.2 85.8

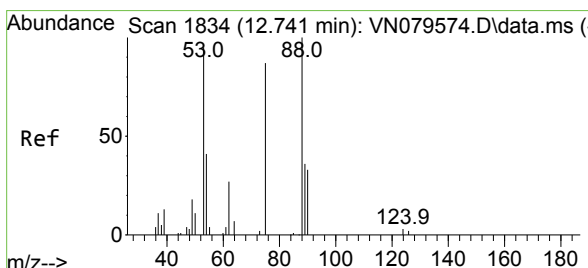
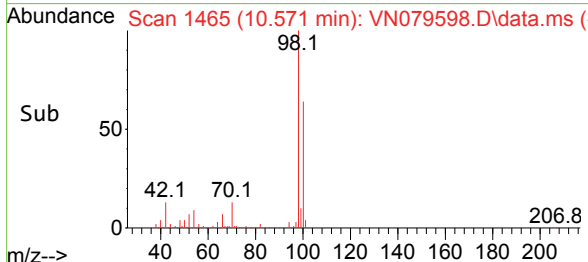
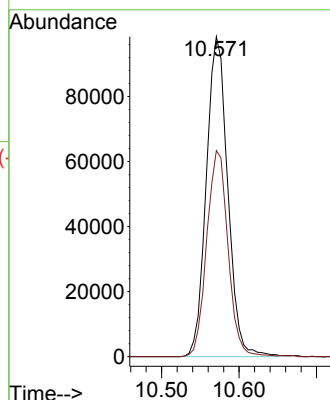
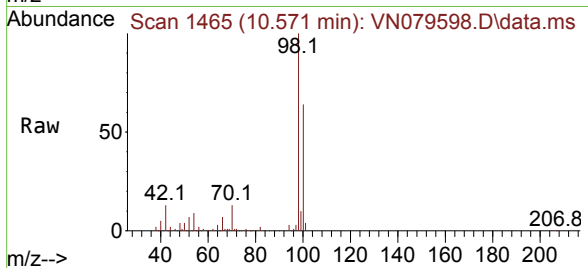




#63
Toluene-d8
Concen: 29.189 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

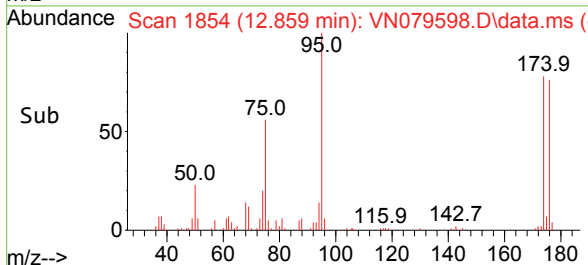
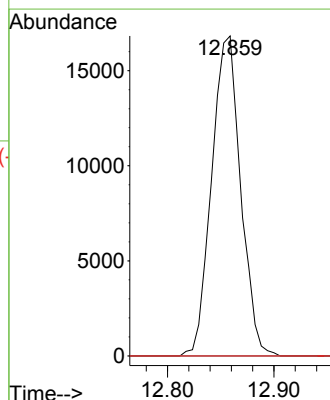
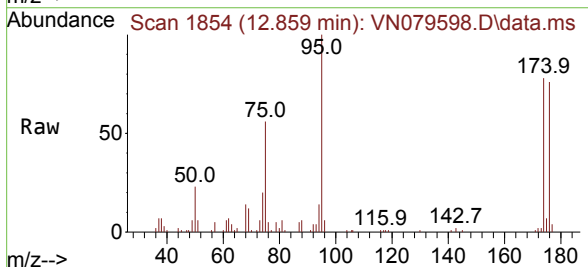
Instrument :
MSVOA_N
ClientSampleId :

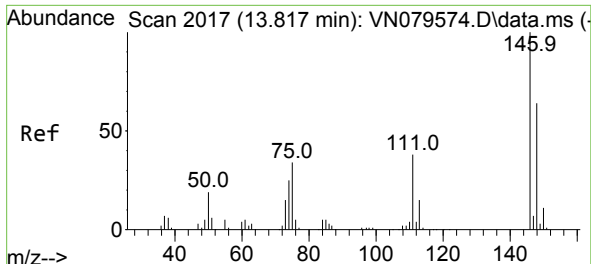
Tgt Ion: 98 Resp: 189018
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 29.905 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

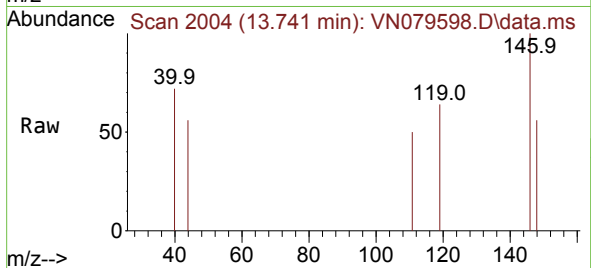
Tgt Ion: 75 Resp: 31824
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#



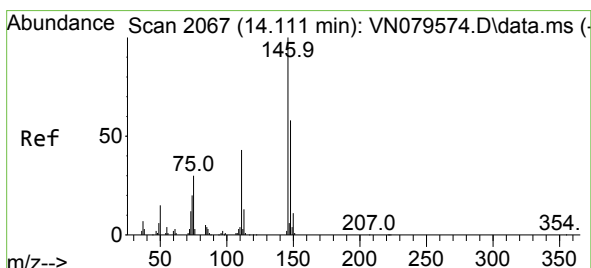
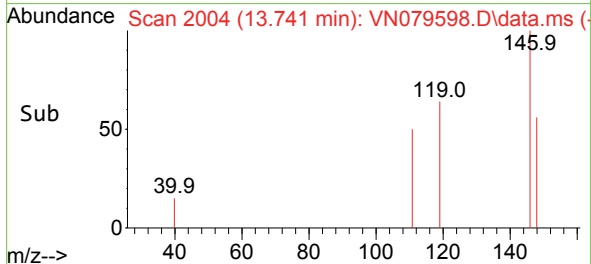
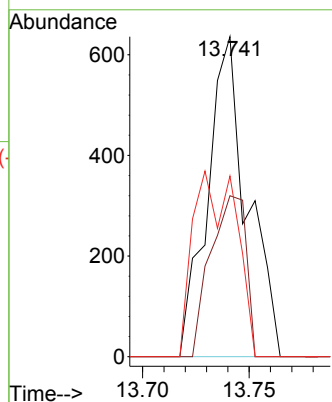


#84
1,4-Dichlorobenzene
Concen: 0.208 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. -0.076 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

Instrument :
MSVOA_N
ClientSampleId :

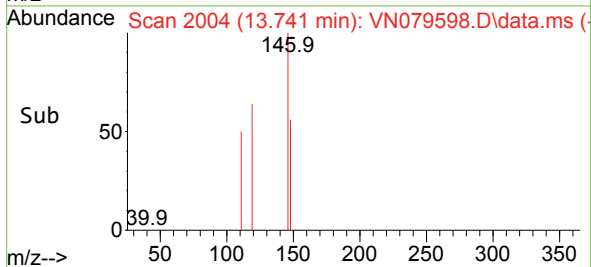
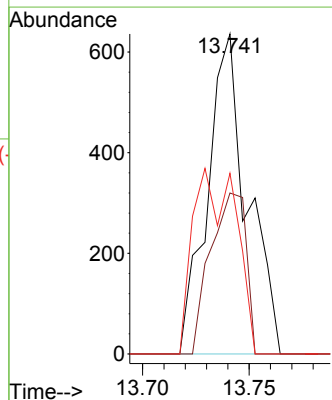
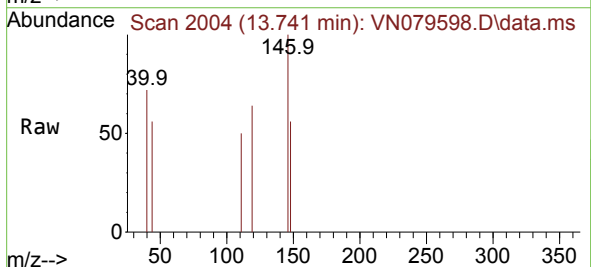


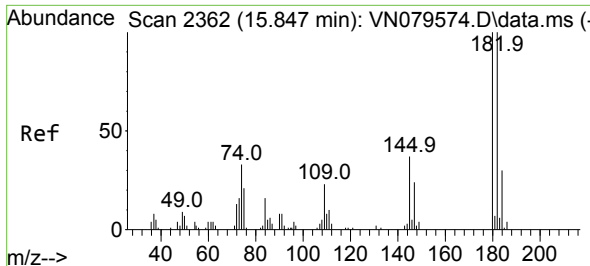
Tgt Ion:146 Resp: 831
Ion Ratio Lower Upper
146 100
111 44.6 19.9 59.7
148 62.1 32.6 97.7



#87
1,2-Dichlorobenzene
Concen: 0.200 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. -0.370 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

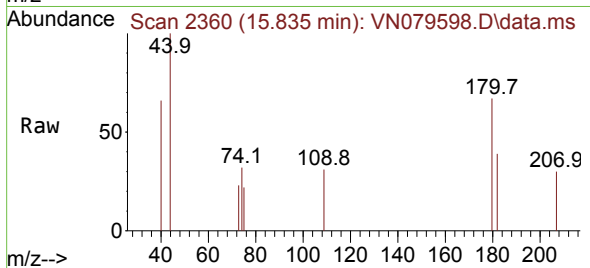
Tgt Ion:146 Resp: 831
Ion Ratio Lower Upper
146 100
111 44.6 22.0 66.0
148 62.1 31.1 93.5



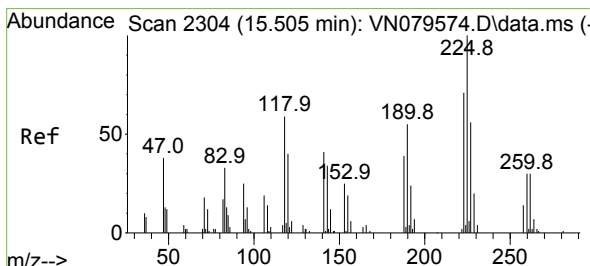
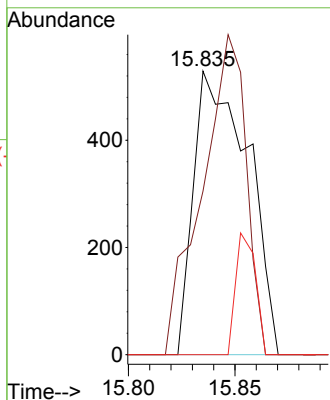
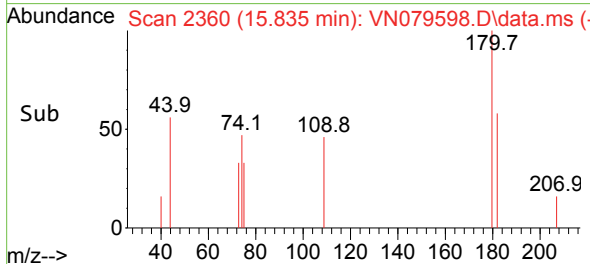


#89
1,2,4-Trichlorobenzene
Concen: 0.641 ug/l
RT: 15.835 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35

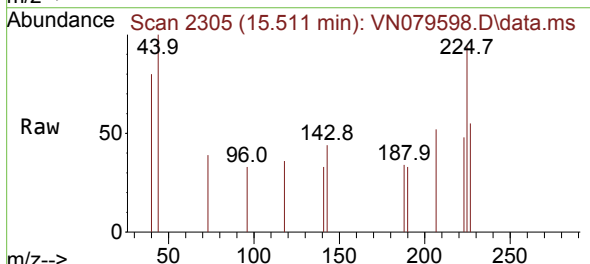
Instrument :
MSVOA_N
ClientSampleId :



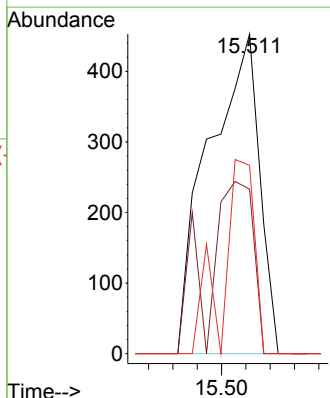
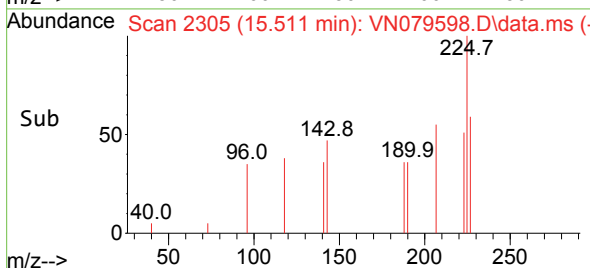
Tgt Ion:180 Resp: 937
Ion Ratio Lower Upper
180 100
182 91.7 74.2 111.4
145 15.7 25.4 38.2#

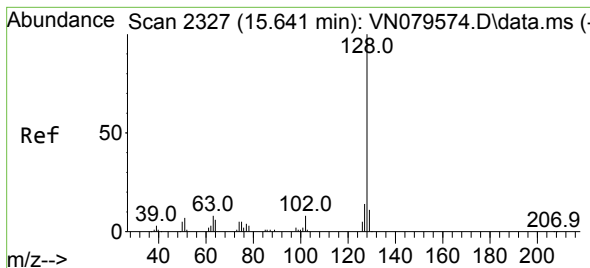


#90
Hexachlorobutadiene
Concen: 0.633 ug/l
RT: 15.511 min Scan# 2305
Delta R.T. 0.006 min
Lab File: VN079598.D
Acq: 18 Oct 2023 13:35



Tgt Ion:225 Resp: 655
Ion Ratio Lower Upper
225 100
223 37.3 0.0 126.0
227 29.2 0.0 127.0





#91

Naphthalene

Concen: 0.843 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

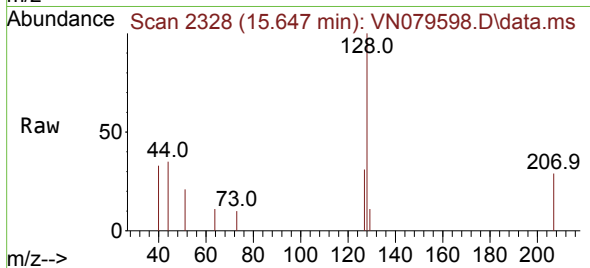
Lab File: VN079598.D

Acq: 18 Oct 2023 13:35

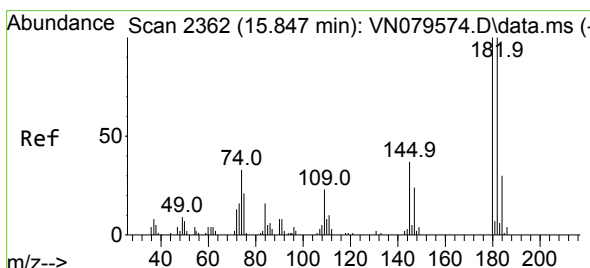
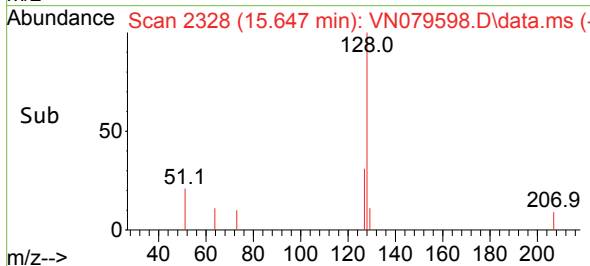
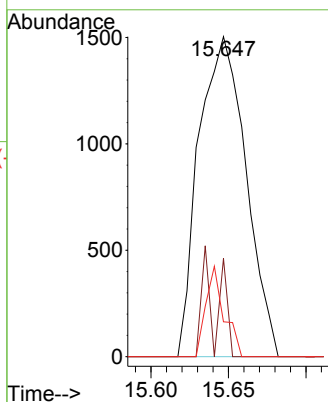
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	128	Resp:	3176
Ion Ratio	Lower	Upper	
128	100		
127	5.8	10.9	16.3#
129	11.0	8.6	12.8



#92

1,2,3-Trichlorobenzene

Concen: 0.641 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.012 min

Lab File: VN079598.D

Acq: 18 Oct 2023 13:35

Tgt Ion:	180	Resp:	937
Ion Ratio	Lower	Upper	
180	100		
182	91.7	0.0	185.6
145	15.7	0.0	63.6

