

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052622\
 Data File : VN072639.D
 Acq On : 26 May 2022 19:53
 Operator : JC\MD
 Sample : N3073-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220525029-01-TRIP-BLANK

Quant Time: May 27 05:35:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 27 05:07:24 2022
 Response via : Initial Calibration

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

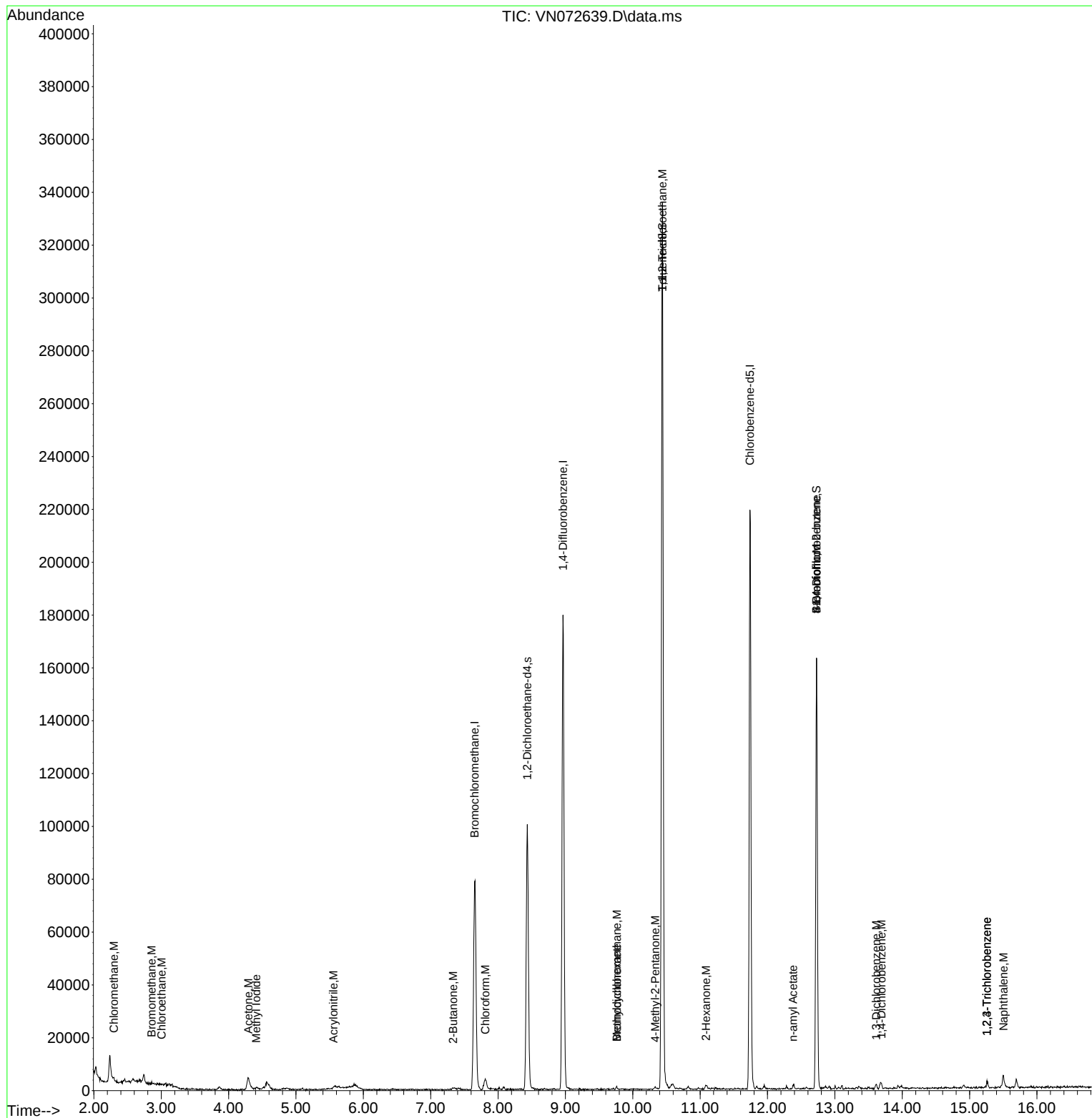
Internal Standards						
1) Bromochloromethane	7.651	128	28854	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	158100	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	131207	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	82302	29.809	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.367%
60) 4-Bromofluorobenzene	12.727	95	57324	24.878	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.933%
63) Toluene-d8	10.439	98	233735	31.330	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	726	0.275	ug/l	92
5) Bromomethane	2.857	94	262	0.244	ug/l	91
6) Chloroethane	3.004	64	323	0.234	ug/l #	44
11) Methyl Iodide	4.410	142	341	0.205	ug/l #	37
14) Acrylonitrile	5.557	53	300	0.204	ug/l #	80
15) Acetone	4.293	58	2805	7.418	ug/l #	38
25) Chloroform	7.810	83	1726	0.403	ug/l	92
30) 2-Butanone	7.334	43	536	0.266	ug/l #	53
38) Methylcyclohexane	9.763	83	759	0.206	ug/l #	21
41) Bromodichloromethane	9.763	83	759	0.238	ug/l #	82
47) n-amyl Acetate	12.380	43	1318	0.301	ug/l #	52
50) 1,1,2-Trichloroethane	10.439	97	7837	3.354	ug/l #	1
56) Bromoform	12.727	173	568	0.328	ug/l #	1
58) 4-Methyl-2-Pentanone	10.333	43	834	0.220	ug/l #	70
59) 2-Hexanone	11.086	43	2111	0.781	ug/l #	84
77) t-1,4-Dichloro-2-butene	12.727	75	29125	27.405	ug/l #	8
83) 1,3-Dichlorobenzene	13.616	146	798	0.223	ug/l	93
84) 1,4-Dichlorobenzene	13.692	146	862	0.248	ug/l	96
89) 1,2,4-Trichlorobenzene	15.257	180	1150	0.659	ug/l #	52
91) Naphthalene	15.504	128	5900	0.964	ug/l #	82
92) 1,2,3-Trichlorobenzene	15.257	180	1150	0.646	ug/l	53

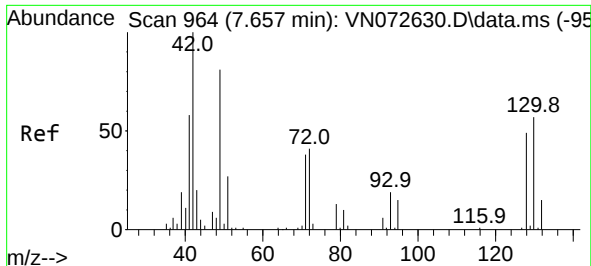
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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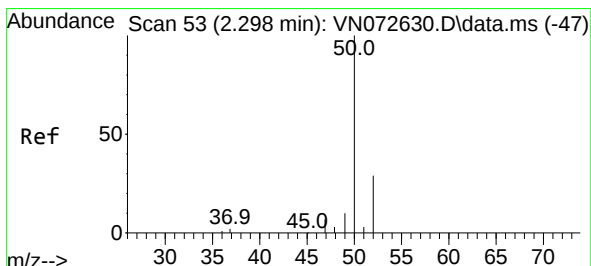
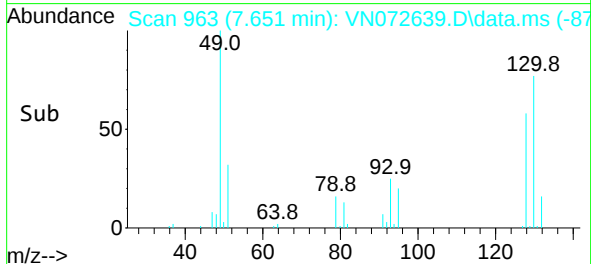
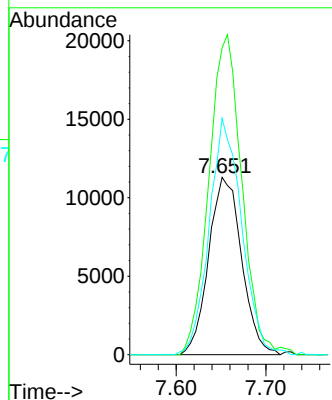
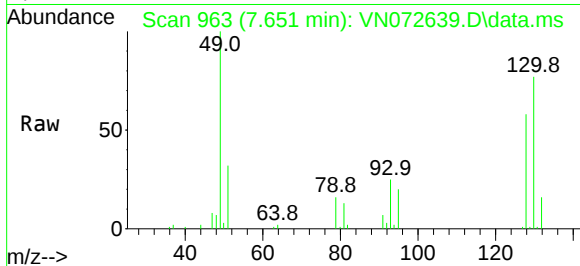




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

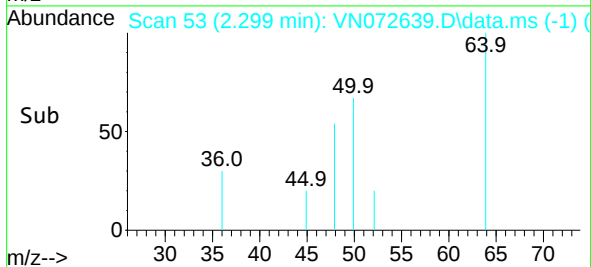
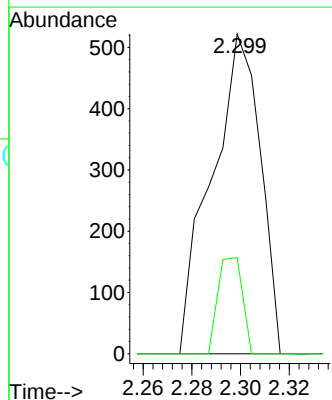
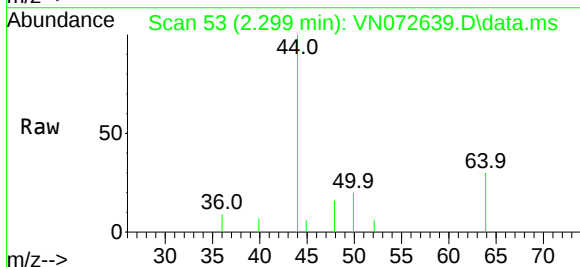
Instrument :
MSVOA_N
ClientSampleId :
220525029-01-TRIP-BLANK

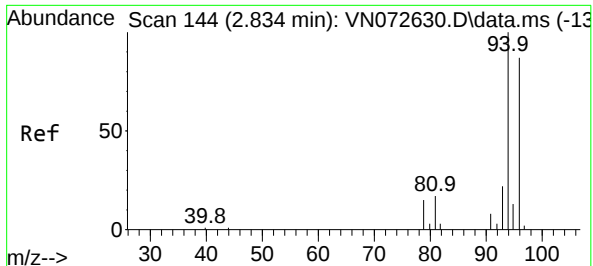
Tgt Ion:128 Resp: 28854
Ion Ratio Lower Upper
128 100
49 178.5 0.0 392.3
130 130.5 0.0 320.2



#3
Chloromethane
Concen: 0.275 ug/l
RT: 2.299 min Scan# 53
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

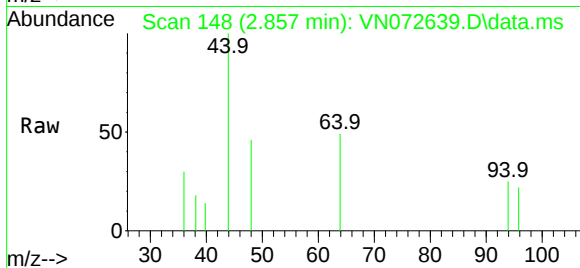
Tgt Ion: 50 Resp: 726
Ion Ratio Lower Upper
50 100
52 30.1 27.8 41.6



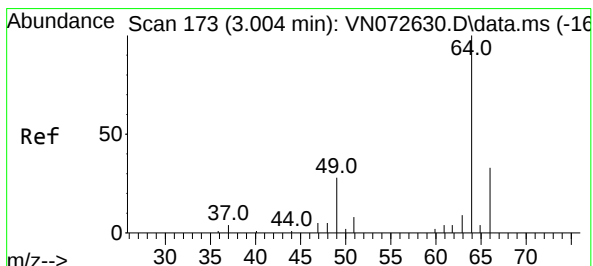
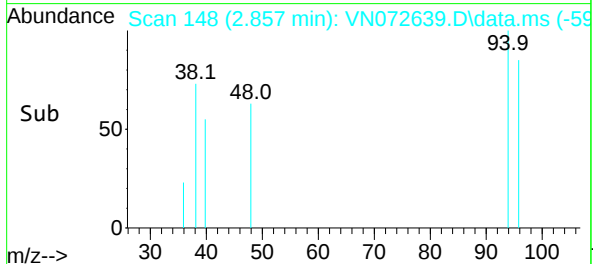
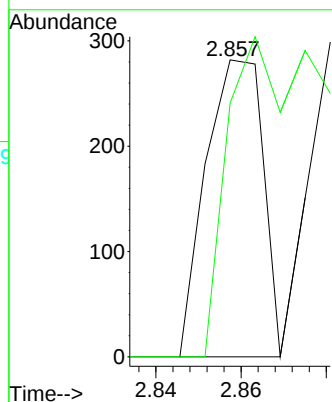


#5
Bromomethane
Concen: 0.244 ug/l
RT: 2.857 min Scan# 144
Delta R.T. 0.024 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Instrument :
MSVOA_N
ClientSampleId :
220525029-01-TRIP-BLANK

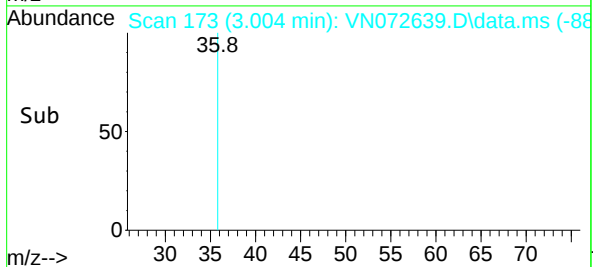
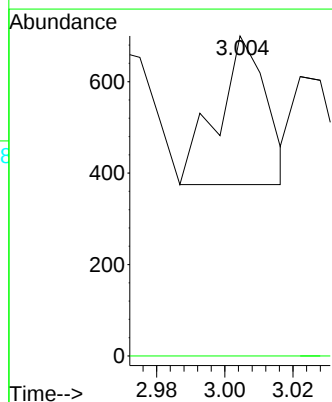
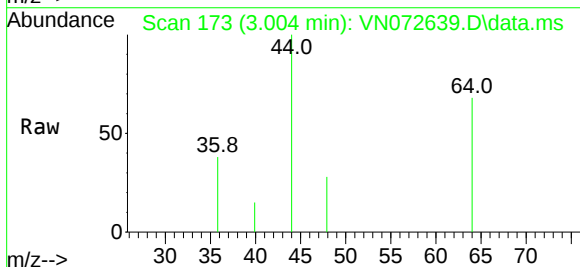


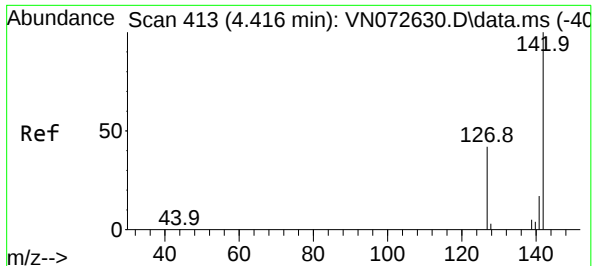
Tgt Ion: 94 Resp: 262
Ion Ratio Lower Upper
94 100
96 85.5 75.2 112.8



#6
Chloroethane
Concen: 0.234 ug/l
RT: 3.004 min Scan# 173
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion: 64 Resp: 323
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#





#11

Methyl Iodide

Concen: 0.205 ug/l

RT: 4.410 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN072639.D

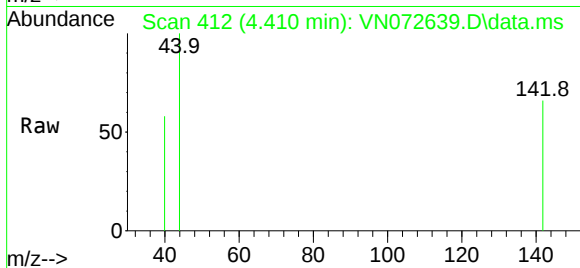
Acq: 26 May 2022 19:53

Instrument :

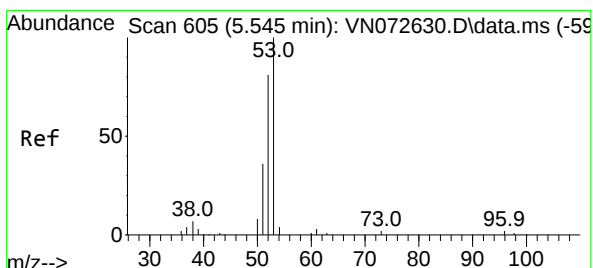
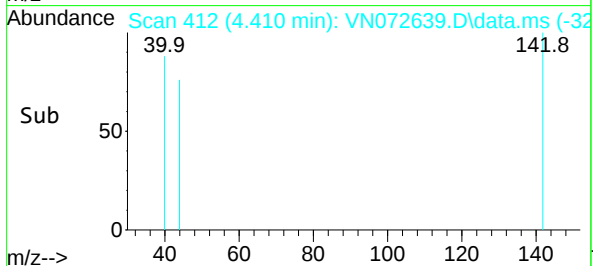
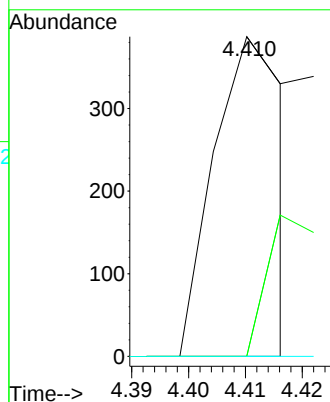
MSVOA_N

ClientSampleId :

220525029-01-TRIP-BLANK



Tgt Ion:142	Resp:	341
Ion	Ratio	Lower Upper
142	100	
127	0.0	24.0 72.0#
141	0.0	8.4 25.2#



#14

Acrylonitrile

Concen: 0.204 ug/l

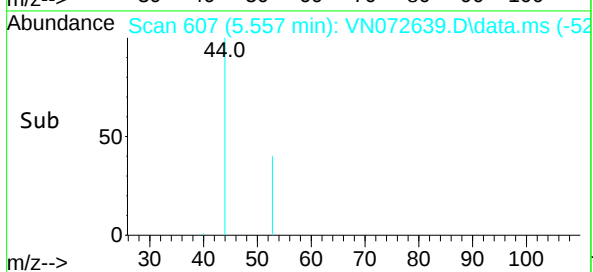
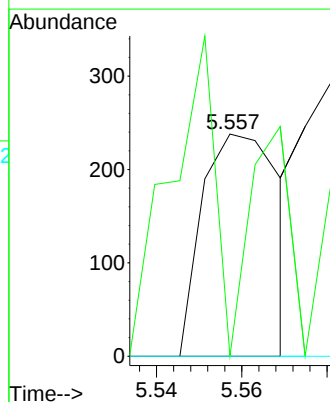
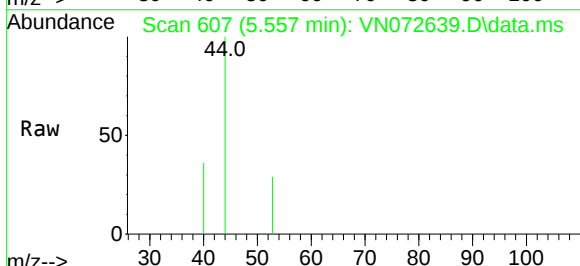
RT: 5.557 min Scan# 607

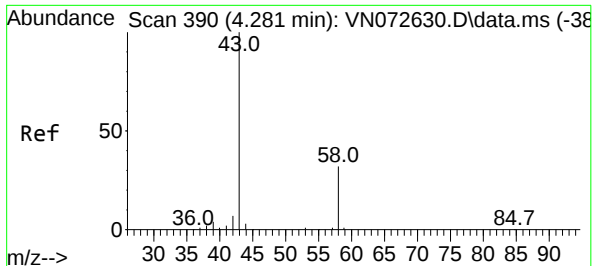
Delta R.T. 0.012 min

Lab File: VN072639.D

Acq: 26 May 2022 19:53

Tgt Ion: 53	Resp:	300
Ion	Ratio	Lower Upper
53	100	
52	84.0	41.8 125.4
51	0.0	19.0 57.0#

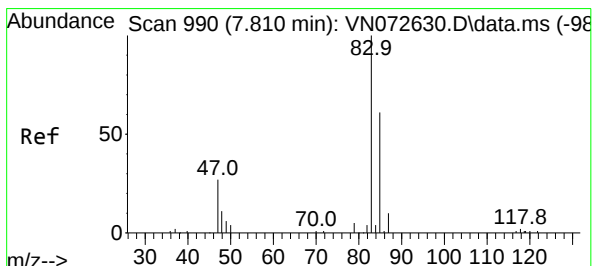
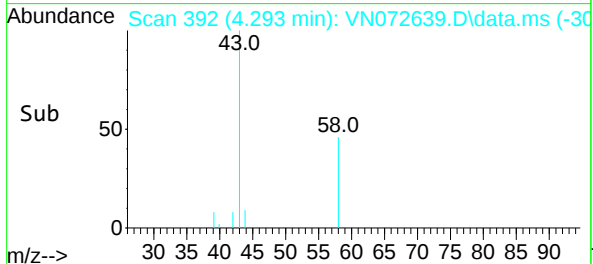
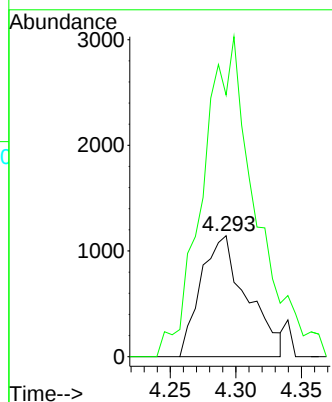
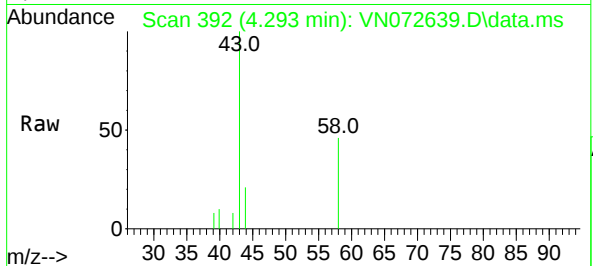




#15
Acetone
Concen: 7.418 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

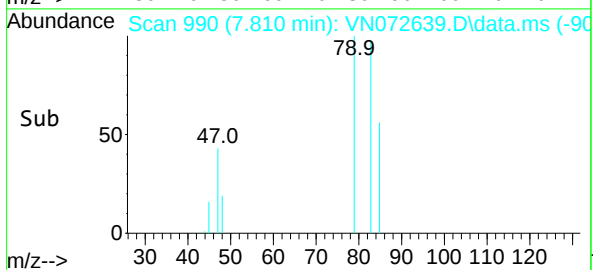
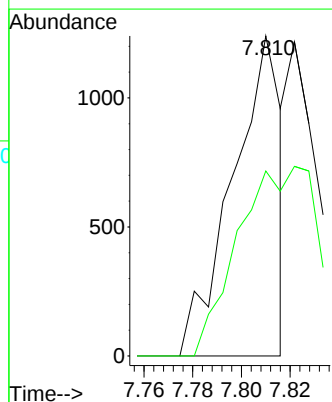
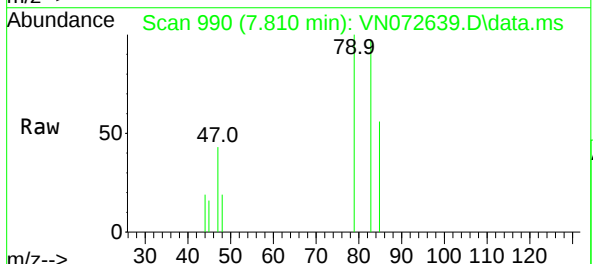
Instrument : MSVOA_N
ClientSampleId : 220525029-01-TRIP-BLANK

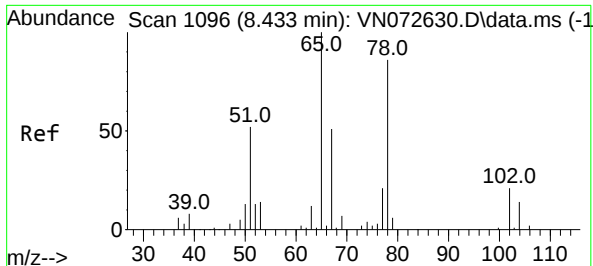
Tgt Ion: 58 Resp: 2805
Ion Ratio Lower Upper
58 100
43 193.7 256.6 384.8#



#25
Chloroform
Concen: 0.403 ug/l
RT: 7.810 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion: 83 Resp: 1726
Ion Ratio Lower Upper
83 100
85 57.8 51.3 76.9

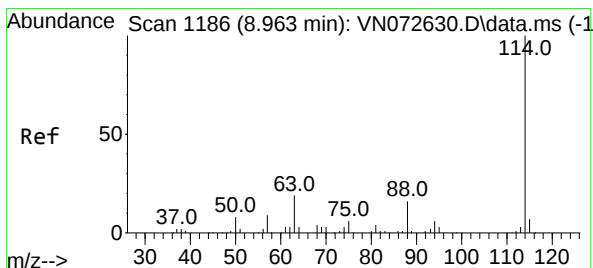
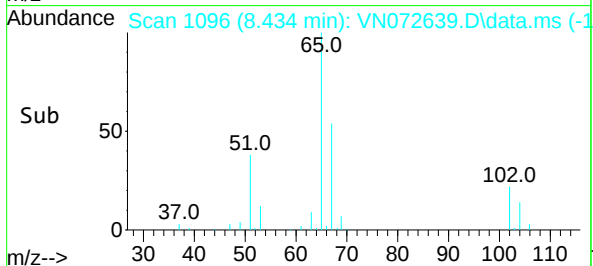
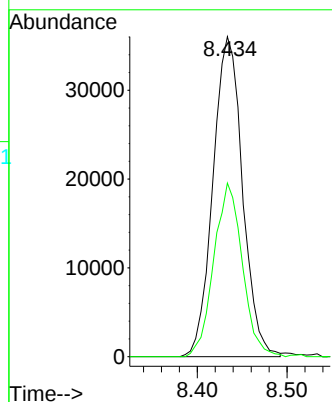
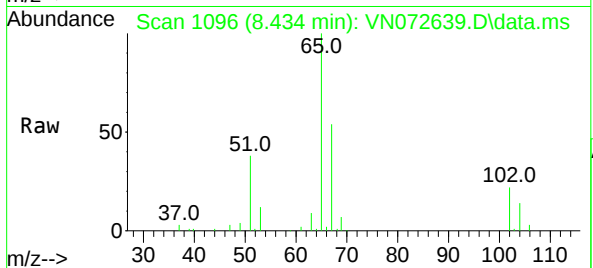




#27
1,2-Dichloroethane-d4
Concen: 29.809 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

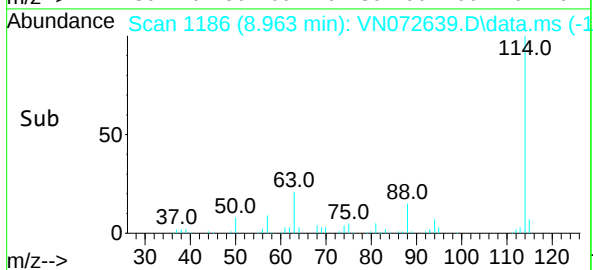
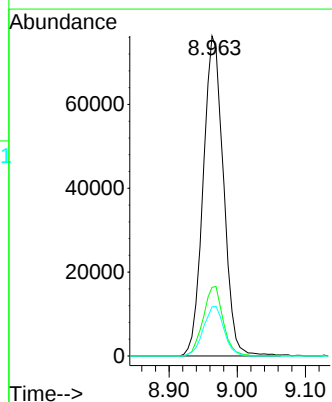
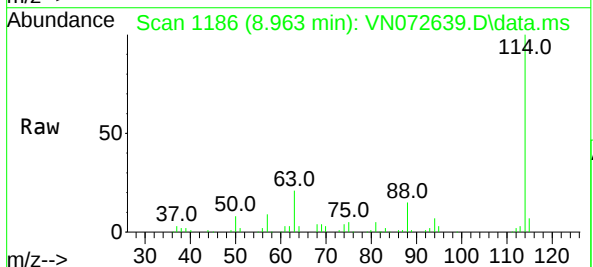
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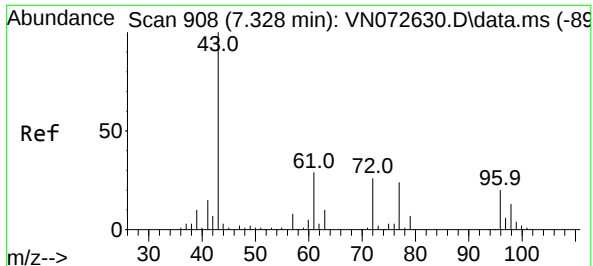
Tgt Ion: 65 Resp: 82302
Ion Ratio Lower Upper
65 100
67 52.3 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion: 114 Resp: 158100
Ion Ratio Lower Upper
114 100
63 21.3 15.8 23.6
88 15.6 11.6 17.4





#30

2-Butanone

Concen: 0.266 ug/l

RT: 7.334 min Scan# 908

Delta R.T. 0.006 min

Lab File: VN072639.D

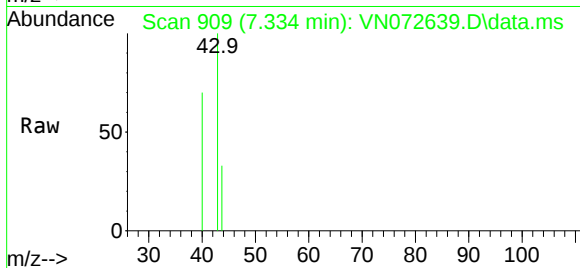
Acq: 26 May 2022 19:53

Instrument :

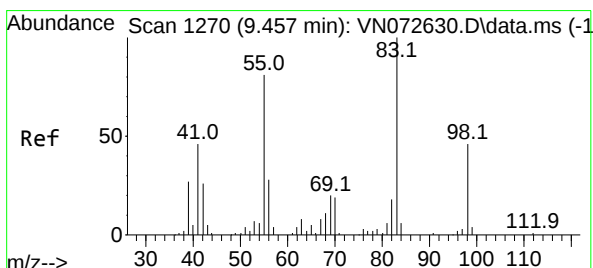
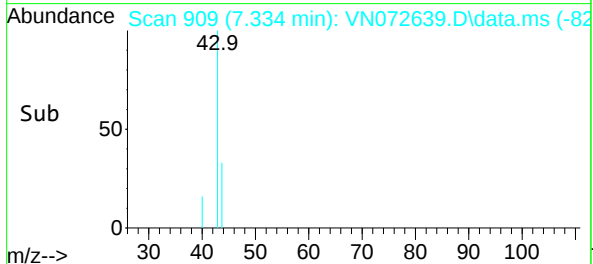
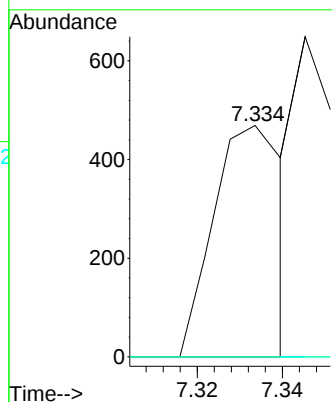
MSVOA_N

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Tgt Ion:	43	Resp:	536
Ion Ratio	Lower	Upper	
43	100		
57	0.0	6.7	10.1#
72	0.0	23.2	34.8#



#38

Methylcyclohexane

Concen: 0.206 ug/l

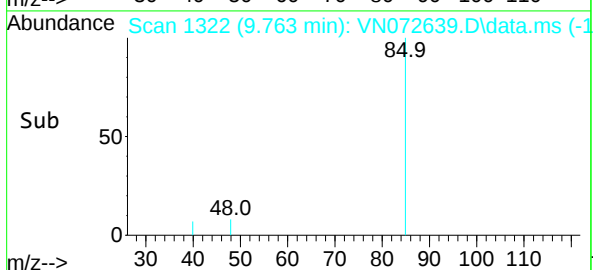
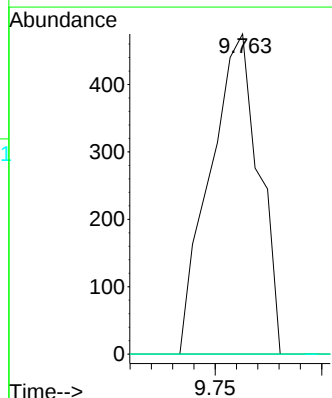
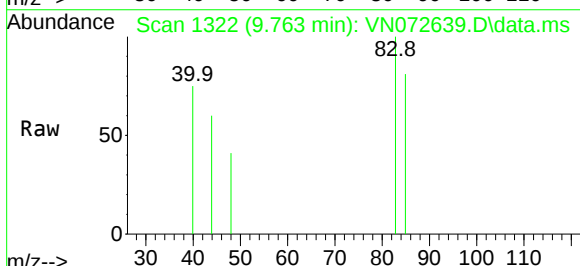
RT: 9.763 min Scan# 1322

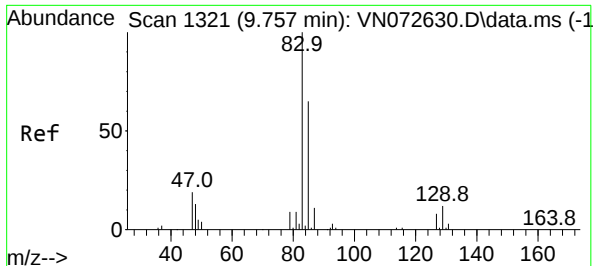
Delta R.T. 0.306 min

Lab File: VN072639.D

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Tgt Ion:	83	Resp:	759
Ion Ratio	Lower	Upper	
83	100		
55	0.0	35.1	105.3#
98	0.0	23.4	70.2#

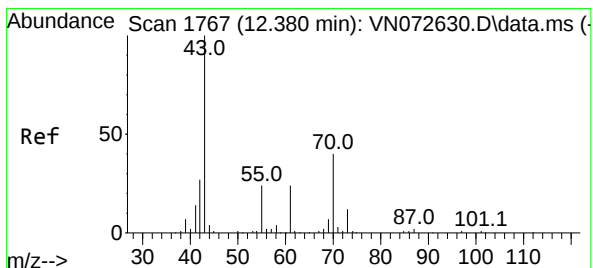
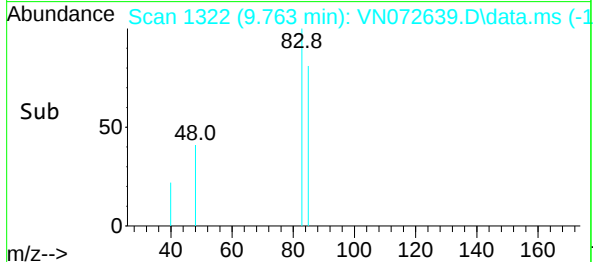
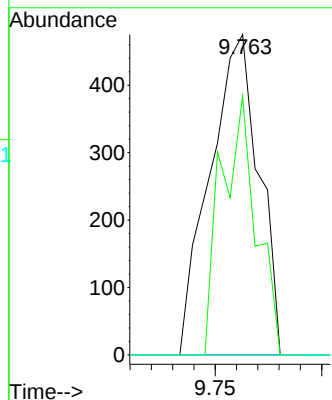
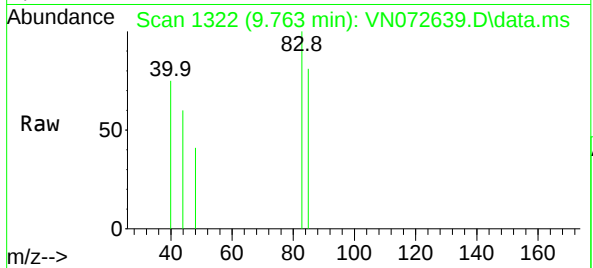




#41
Bromodichloromethane
Concen: 0.238 ug/l
RT: 9.763 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

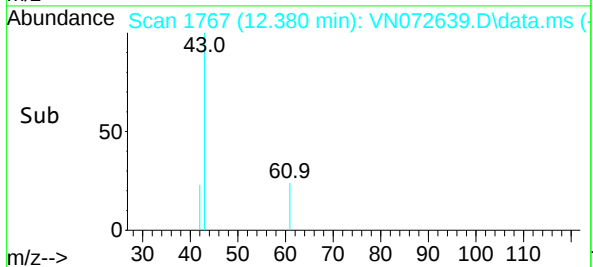
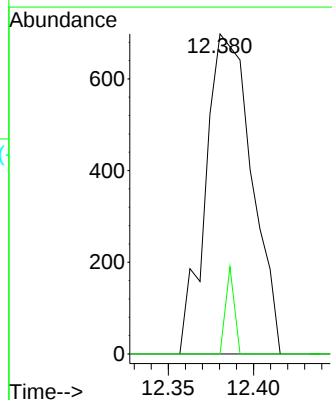
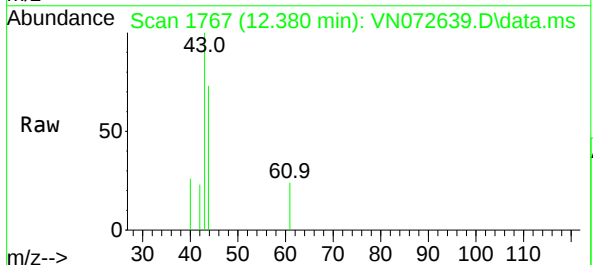
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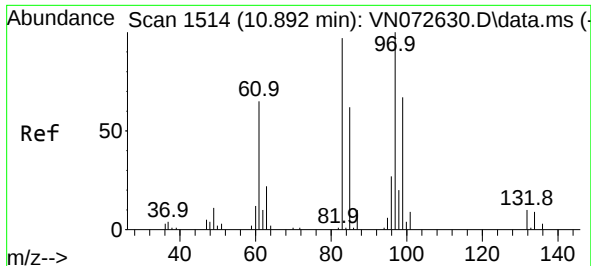
Tgt Ion: 83 Resp: 759
Ion Ratio Lower Upper
83 100
85 80.8 54.1 81.1
127 0.0 7.6 11.4#



#47
n-amyl Acetate
Concen: 0.301 ug/l
RT: 12.380 min Scan# 1767
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion: 43 Resp: 1318
Ion Ratio Lower Upper
43 100
55 0.0 19.0 28.6#

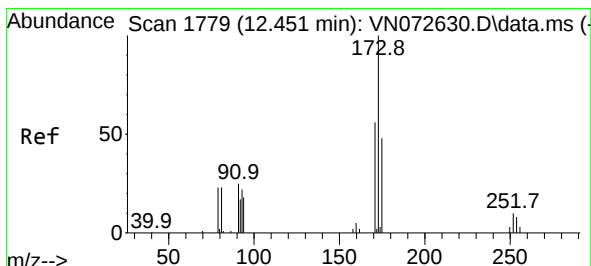
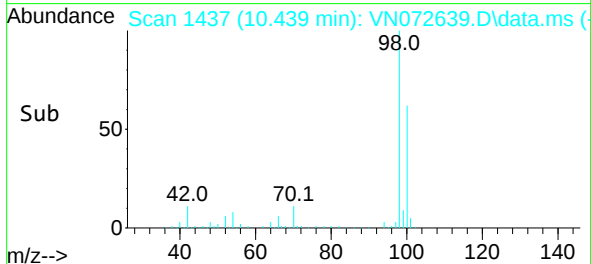
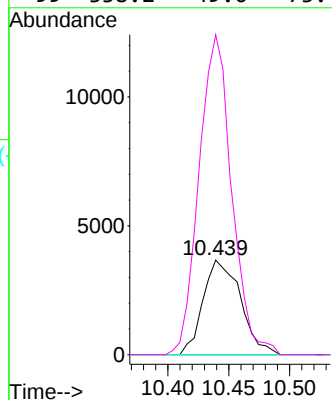
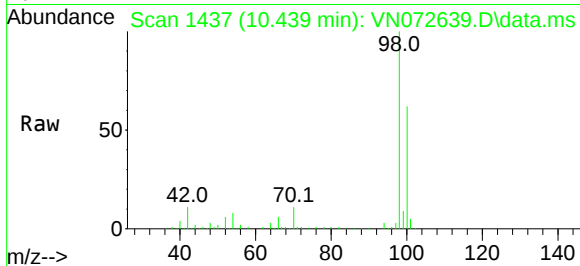




#50
1,1,2-Trichloroethane
Concen: 3.354 ug/l
RT: 10.439 min Scan# 14
Delta R.T. -0.453 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

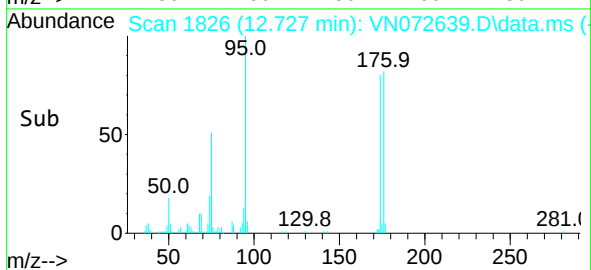
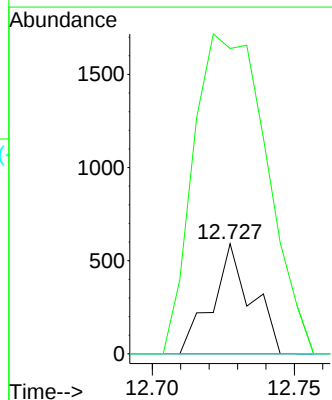
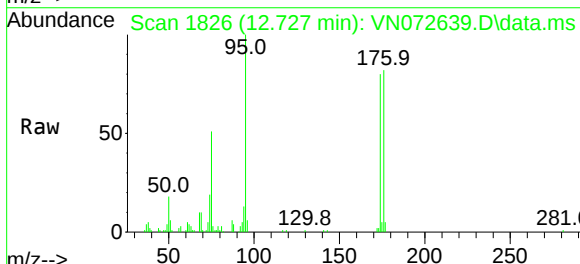
Instrument :
MSVOA_N
ClientSampleId :
220525029-01-TRIP-BLANK

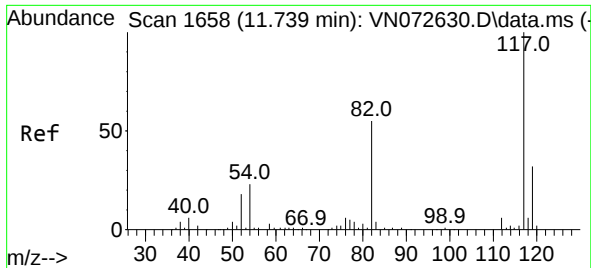
Tgt Ion:	97	Resp:	7837
Ion	Ratio	Lower	Upper
97	100		
83	0.0	67.2	100.8#
85	0.0	43.0	64.4#
99	338.2	49.0	73.4#



#56
Bromoform
Concen: 0.328 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.277 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion:	173	Resp:	568
Ion	Ratio	Lower	Upper
173	100		
175	540.5	38.6	58.0#
254	0.0	0.0	0.0

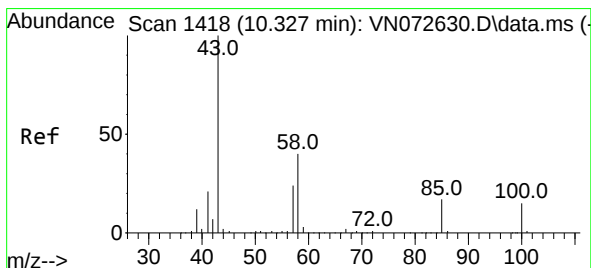
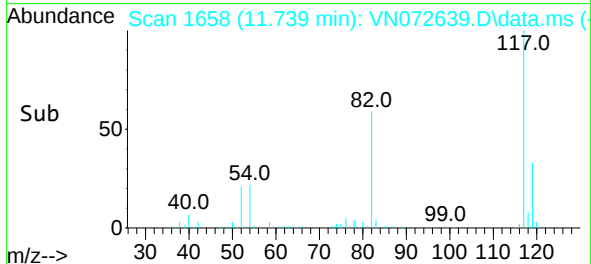
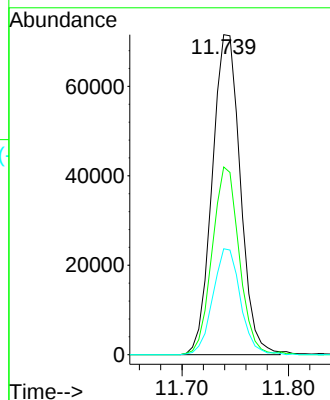
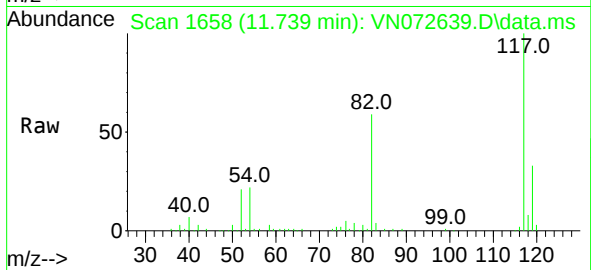




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

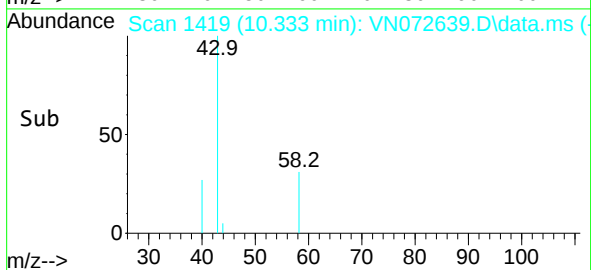
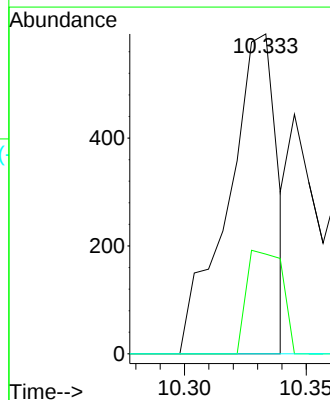
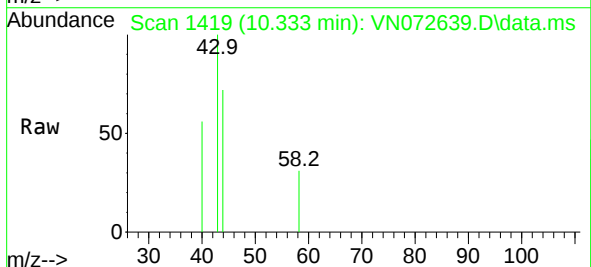
Instrument :
MSVOA_N
ClientSampleId :
220525029-01-TRIP-BLANK

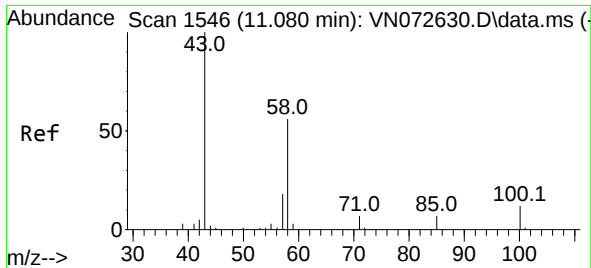
Tgt Ion:117 Resp: 131207
Ion Ratio Lower Upper
117 100
82 56.3 43.6 65.4
119 32.2 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.220 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.006 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion: 43 Resp: 834
Ion Ratio Lower Upper
43 100
58 23.5 30.0 45.0#
85 0.0 15.0 22.6#

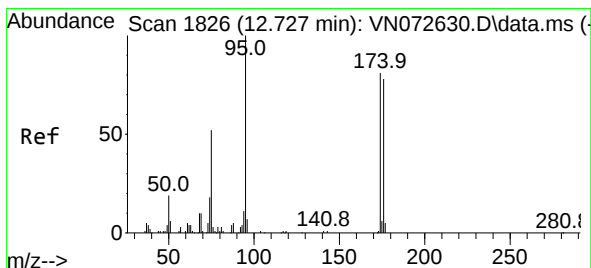
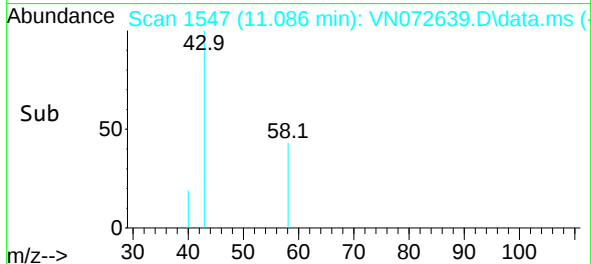
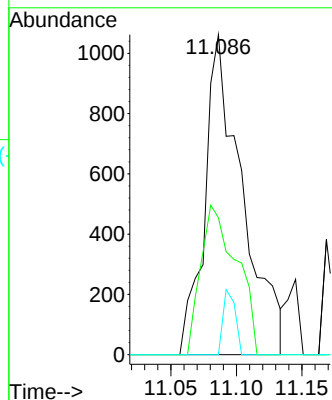
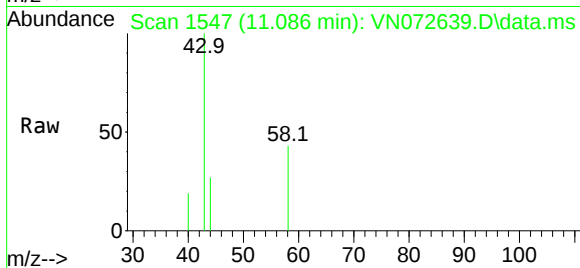




#59
2-Hexanone
Concen: 0.781 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

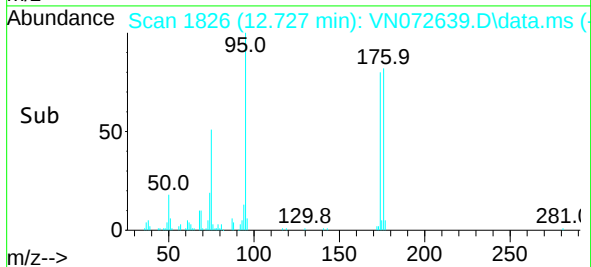
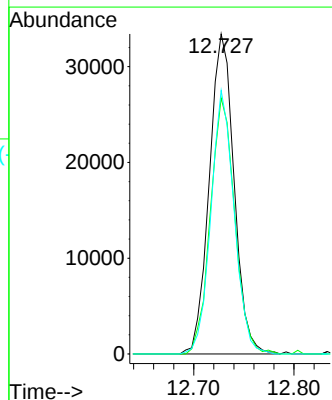
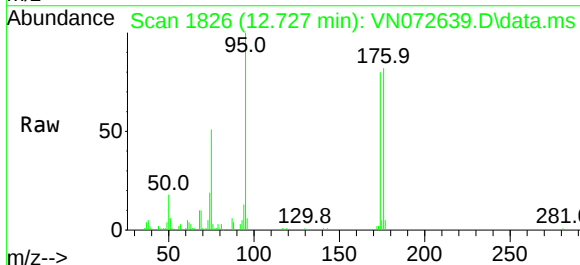
Instrument :
MSVOA_N
ClientSampleId :
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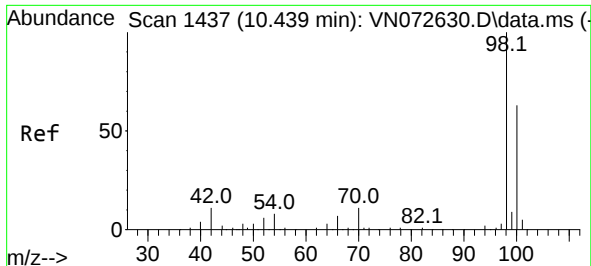
Tgt Ion: 43 Resp: 2111
Ion Ratio Lower Upper
43 100
58 44.7 42.2 63.2
57 6.5 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 24.878 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion: 95 Resp: 57324
Ion Ratio Lower Upper
95 100
174 78.4 62.9 94.3
176 77.3 61.0 91.4

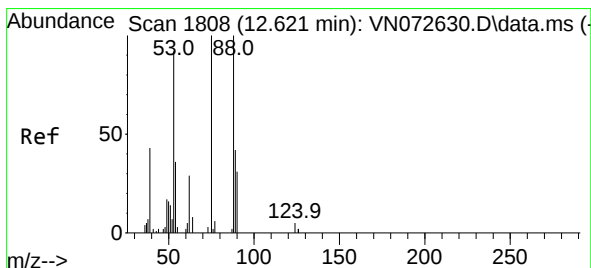
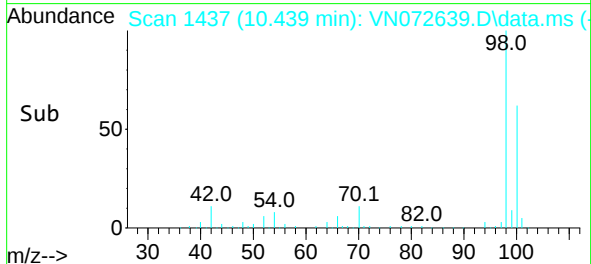
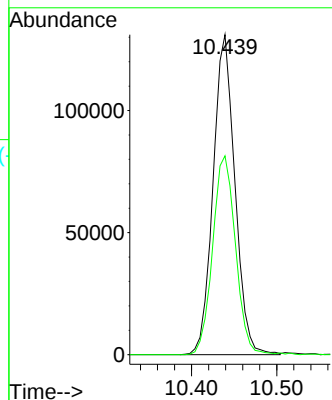
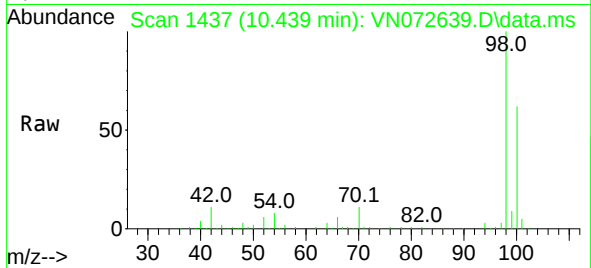




#63
Toluene-d8
Concen: 31.330 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

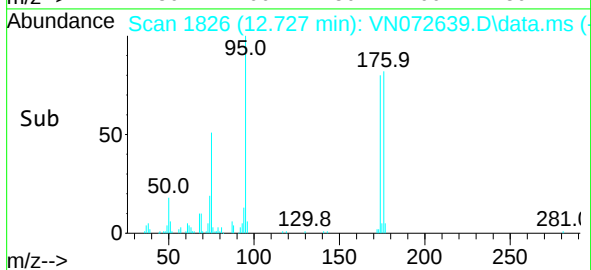
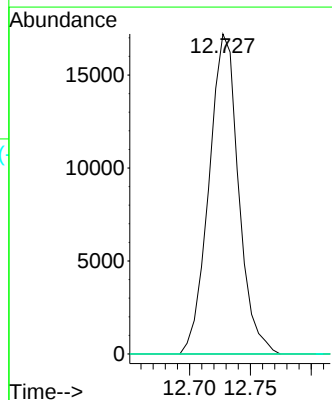
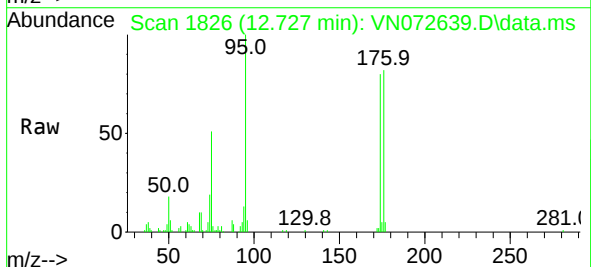
Instrument :
MSVOA_N
ClientSampleId :
220525029-01-TRIP-BLANK

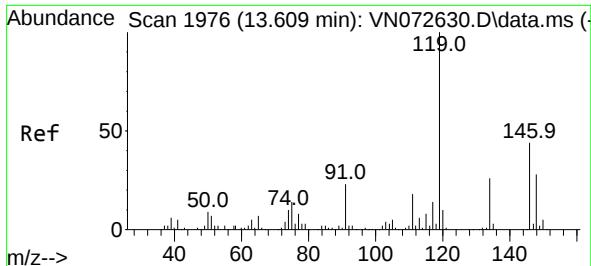
Tgt Ion: 98 Resp: 233735
Ion Ratio Lower Upper
98 100
100 64.9 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 27.405 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion: 75 Resp: 29125
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#

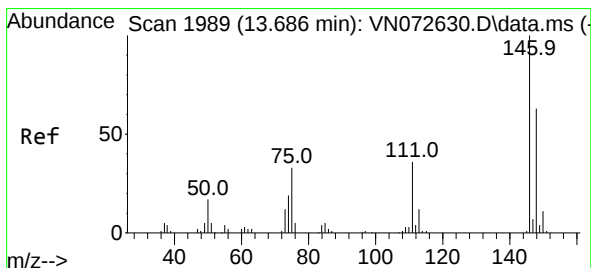
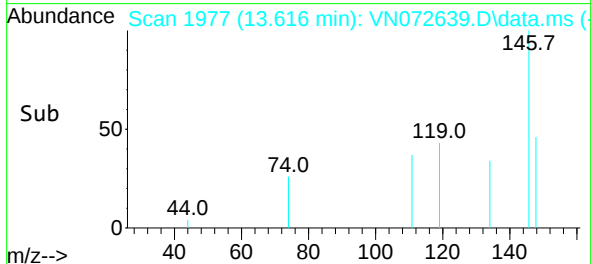
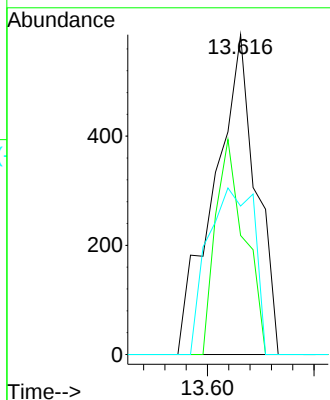
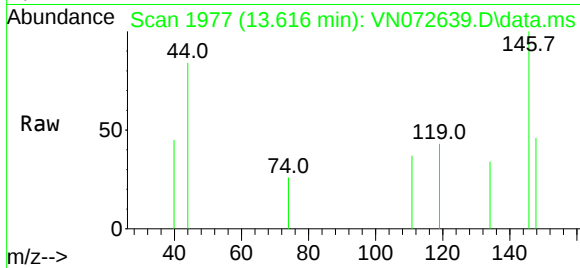




#83
 1,3-Dichlorobenzene
 Concen: 0.223 ug/l
 RT: 13.616 min Scan# 1977
 Delta R.T. 0.006 min
 Lab File: VN072639.D
 Acq: 26 May 2022 19:53

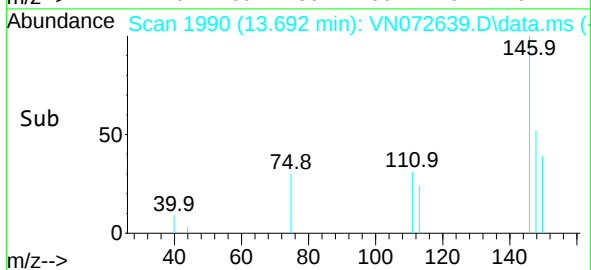
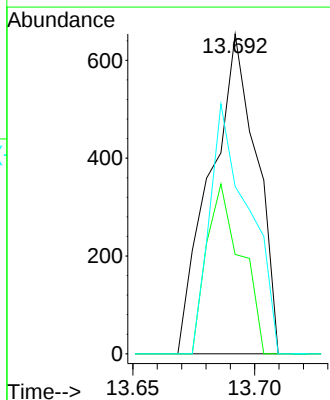
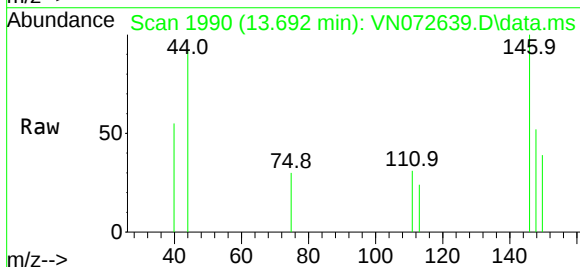
Instrument :
 MSVOA_N
 ClientSampleId :
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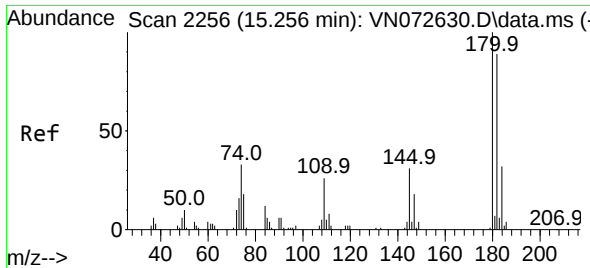
Tgt Ion:146 Resp: 798
 Ion Ratio Lower Upper
 146 100
 111 46.9 20.8 62.2
 148 58.0 31.4 94.3



#84
 1,4-Dichlorobenzene
 Concen: 0.248 ug/l
 RT: 13.692 min Scan# 1990
 Delta R.T. 0.006 min
 Lab File: VN072639.D
 Acq: 26 May 2022 19:53

Tgt Ion:146 Resp: 862
 Ion Ratio Lower Upper
 146 100
 111 39.8 19.5 58.5
 148 66.1 31.1 93.5

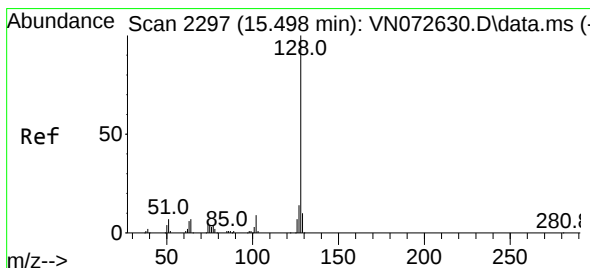
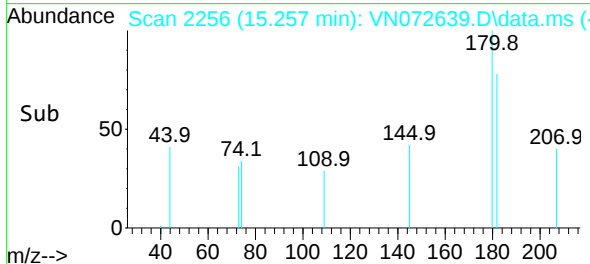
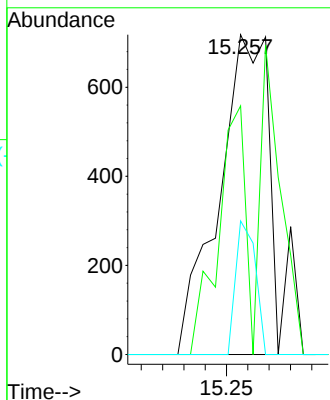
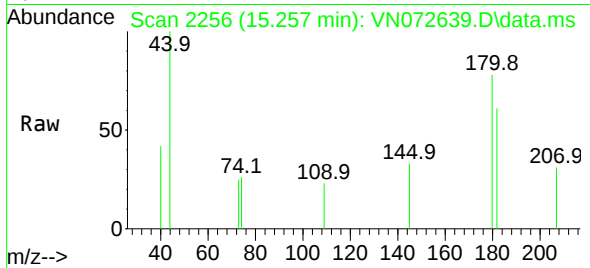




#89
1,2,4-Trichlorobenzene
Concen: 0.659 ug/l
RT: 15.257 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

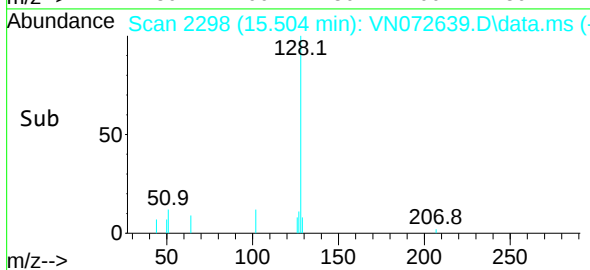
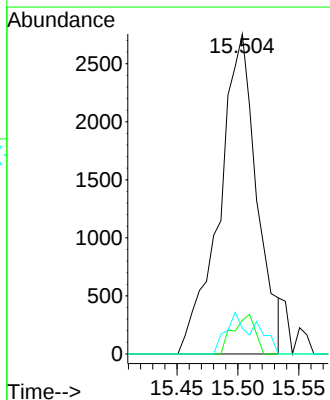
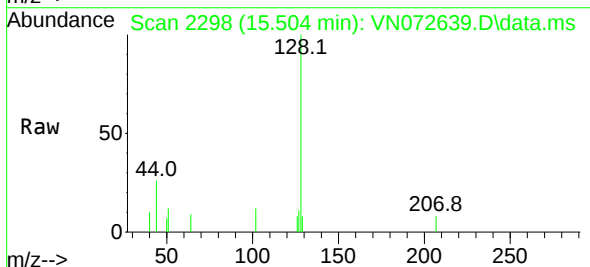
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ClientSampleId :
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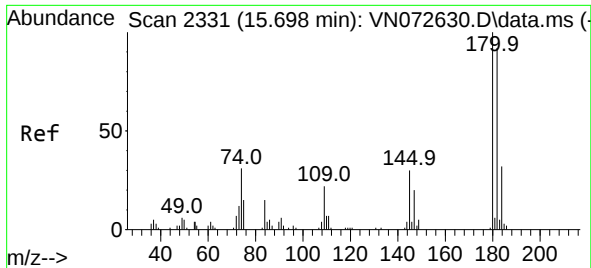
Tgt Ion:180 Resp: 1150
Ion Ratio Lower Upper
180 100
182 43.0 77.7 116.5#
145 16.9 26.6 39.8#



#91
Naphthalene
Concen: 0.964 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. 0.006 min
Lab File: VN072639.D
Acq: 26 May 2022 19:53

Tgt Ion:128 Resp: 5900
Ion Ratio Lower Upper
128 100
127 7.2 10.7 16.1#
129 3.6 9.0 13.6#





#92

1,2,3-Trichlorobenzene

Concen: 0.646 ug/l

RT: 15.257 min Scan# 21

Delta R.T. -0.441 min

Lab File: VN072639.D

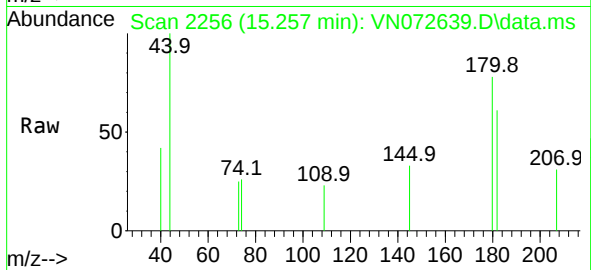
Acq: 26 May 2022 19:53

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion:180 Resp: 1150

Ion Ratio Lower Upper

180 100

182 43.0 0.0 190.0

145 16.9 0.0 67.8

