

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082622\
 Data File : VN074139.D
 Acq On : 26 Aug 2022 16:33
 Operator : JC\MD
 Sample : N4280-11DL 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D1-20220818DL

Quant Time: Aug 27 00:21:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081522W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 26 06:44:47 2022
 Response via : Initial Calibration

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

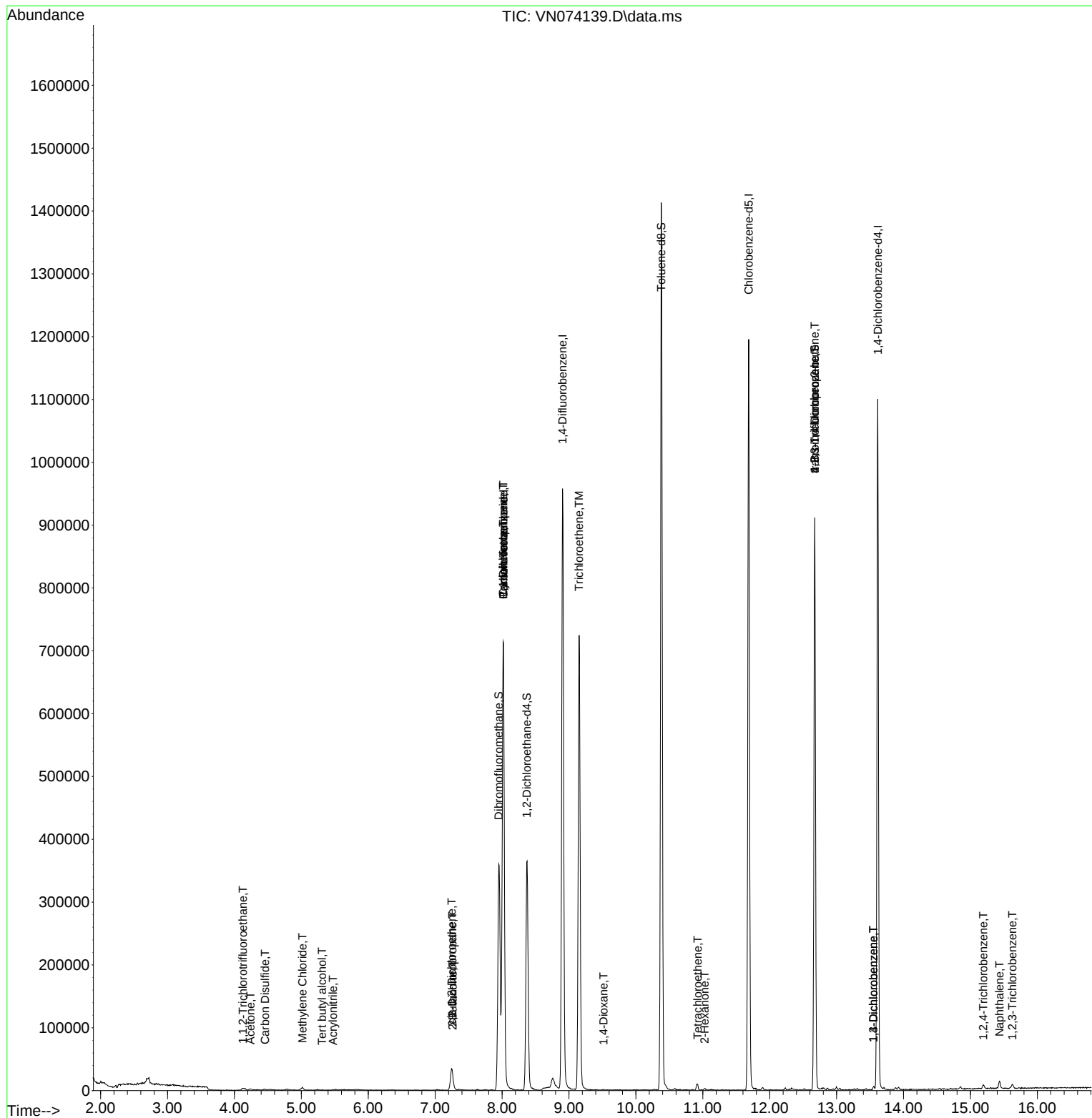
Internal Standards						
1) Pentafluorobenzene	8.022	168	600855	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	897085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	747957	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	311083	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	306825	52.428	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.860%	
35) Dibromofluoromethane	7.951	113	272136	51.295	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.600%	
50) Toluene-d8	10.380	98	1002703	48.801	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.600%	
62) 4-Bromofluorobenzene	12.674	95	303502	44.507	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 89.020%	
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	4.128	101	1555	0.305	ug/l #	31
11) Tert butyl alcohol	5.310	59	525	0.401	ug/l #	72
15) Acrylonitrile	5.475	53	1071	0.335	ug/l #	61
16) Acetone	4.240	43	3962	1.435	ug/l #	83
17) Carbon Disulfide	4.457	76	2862	0.254	ug/l #	75
18) Methyl Acetate	4.787	43	3592	Below Cal	#	80
20) Methylene Chloride	5.016	84	3212	0.551	ug/l #	84
25) 2-Butanone	7.263	43	1545	0.353	ug/l #	45
26) 2,2-Dichloropropane	7.257	77	2475	0.284	ug/l #	53
27) cis-1,2-Dichloroethene	7.245	96	1337	0.207	ug/l	27
31) Cyclohexane	8.016	56	9617	1.179	ug/l #	1
36) 1,1-Dichloropropene	8.016	75	39585	5.372	ug/l #	49
38) Carbon Tetrachloride	8.022	117	52896	6.280	ug/l #	16
44) Trichloroethene	9.151	130	285936	42.567	ug/l	96
49) 1,4-Dioxane	9.516	88	298	1.841	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.980	63	71	Below Cal	#	44
59) 2-Hexanone	11.027	43	2417	0.365	ug/l	72
64) Tetrachloroethene	10.922	164	2976	0.504	ug/l #	70
76) 1,2,3-Trichloropropane	12.674	75	149076	23.056	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	149076	65.575	ug/l #	10
87) 1,3-Dichlorobenzene	13.551	146	2288	0.215	ug/l	96
88) 1,4-Dichlorobenzene	13.551	146	2288	0.212	ug/l	98
93) 1,2,4-Trichlorobenzene	15.192	180	2733	0.409	ug/l	97
95) Naphthalene	15.433	128	11803	0.542	ug/l	99
96) 1,2,3-Trichlorobenzene	15.627	180	3291	0.476	ug/l	96

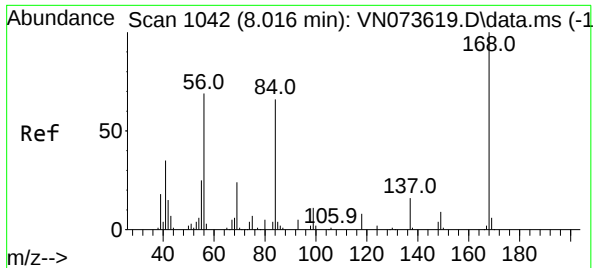
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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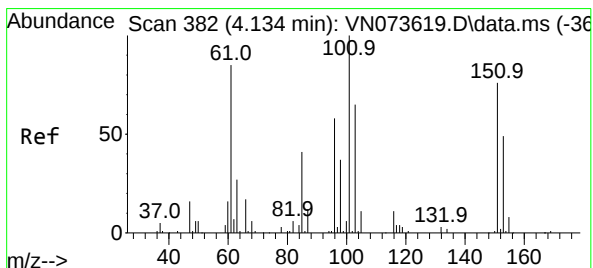
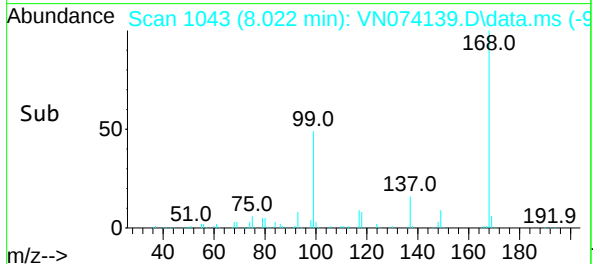
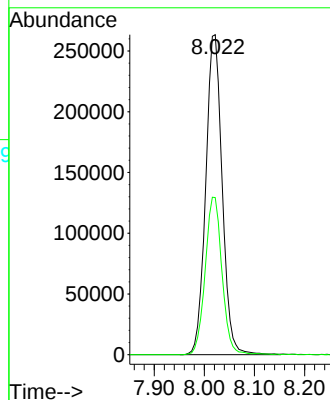
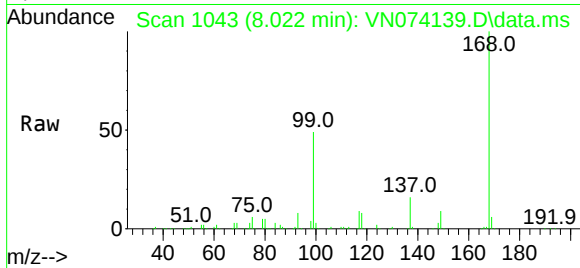




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

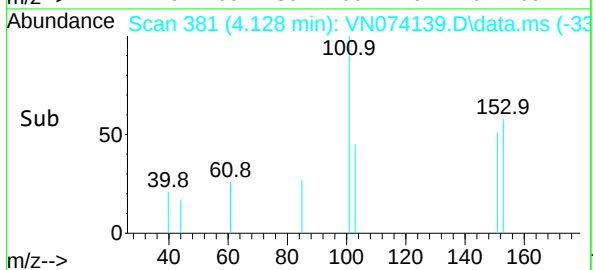
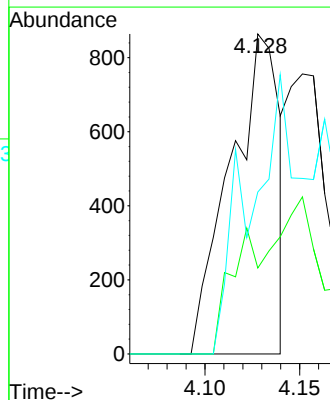
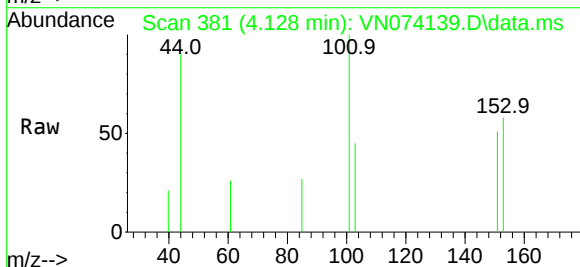
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20220818DL

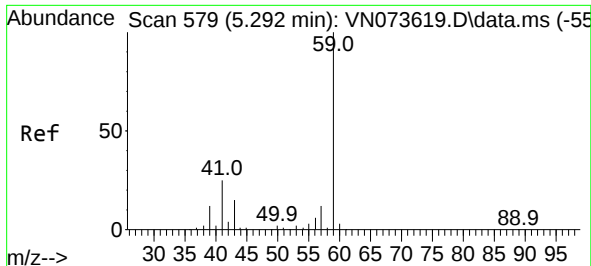
Tgt Ion:168 Resp: 600855
Ion Ratio Lower Upper
168 100
99 49.1 42.3 63.5



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.305 ug/l
RT: 4.128 min Scan# 381
Delta R.T. -0.006 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

Tgt Ion:101 Resp: 1555
Ion Ratio Lower Upper
101 100
85 22.7 34.7 52.1#
151 0.0 63.0 94.4#

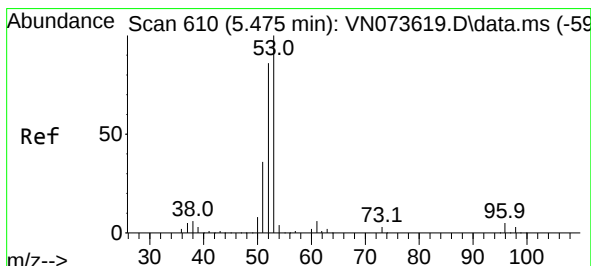
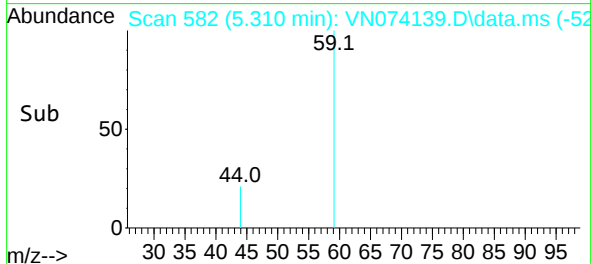
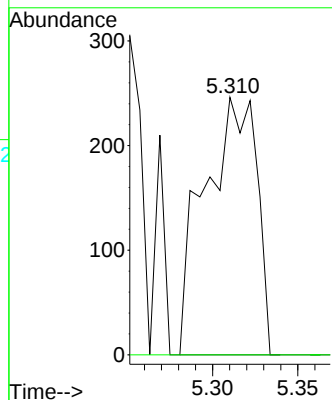
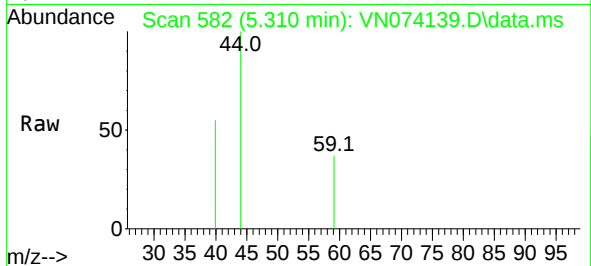




#11
Tert butyl alcohol
Concen: 0.401 ug/l
RT: 5.310 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

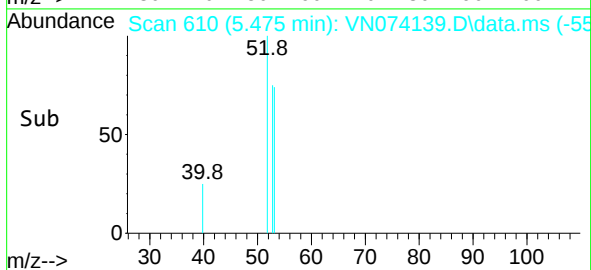
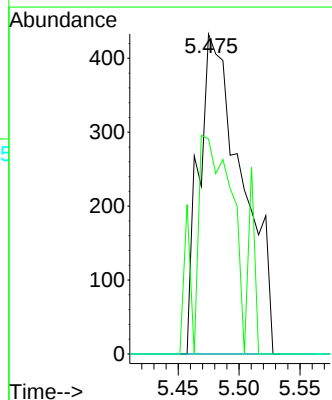
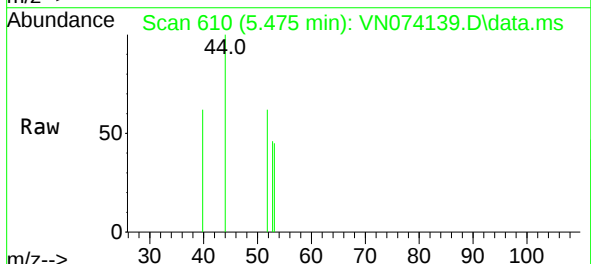
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20220818DL

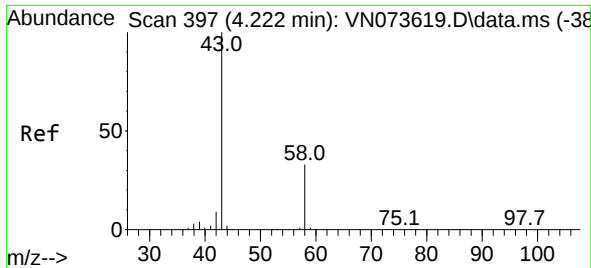
Tgt Ion: 59 Resp: 525
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#15
Acrylonitrile
Concen: 0.335 ug/l
RT: 5.475 min Scan# 610
Delta R.T. -0.000 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

Tgt Ion: 53 Resp: 1071
Ion Ratio Lower Upper
53 100
52 56.7 66.4 99.6#
51 0.0 28.5 42.7#





#16

Acetone

Concen: 1.435 ug/l

RT: 4.240 min Scan# 40

Delta R.T. 0.018 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

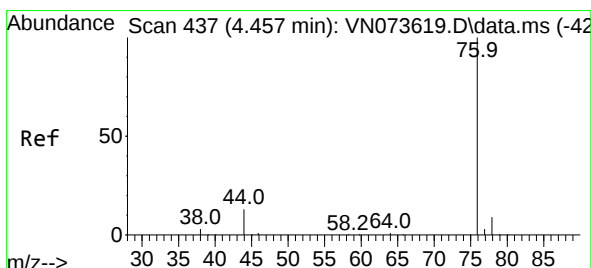
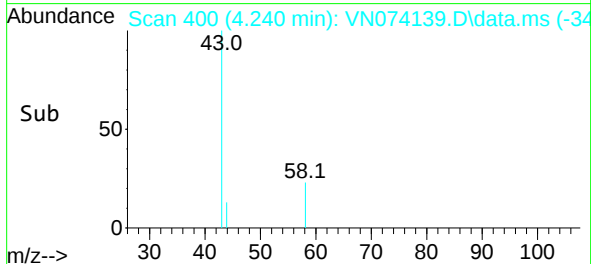
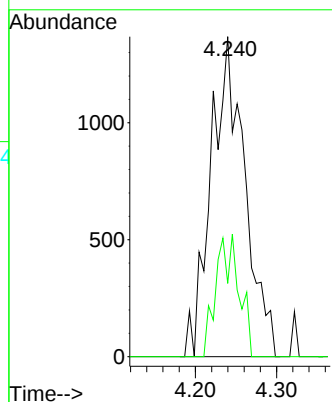
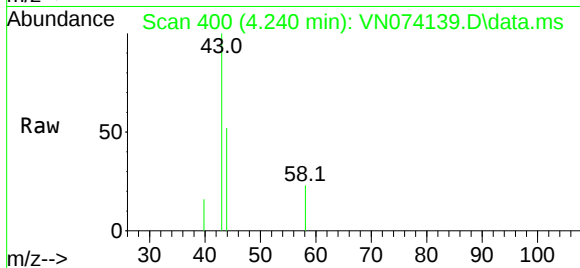
RE103D1-20220818DL

Tgt Ion: 43 Resp: 3962

Ion Ratio Lower Upper

43 100

58 22.9 26.0 39.0#



#17

Carbon Disulfide

Concen: 0.254 ug/l

RT: 4.457 min Scan# 437

Delta R.T. 0.000 min

Lab File: VN074139.D

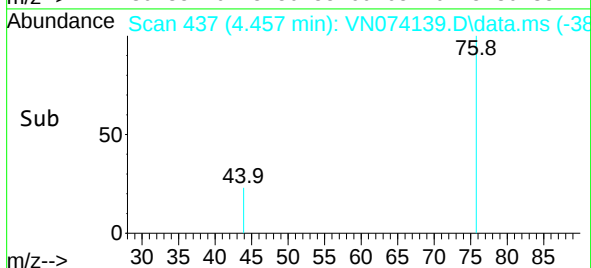
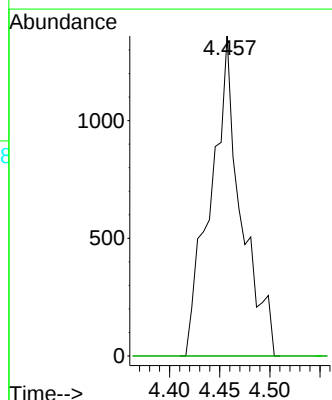
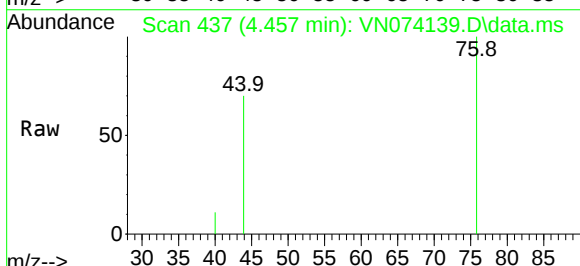
Acq: 26 Aug 2022 16:33

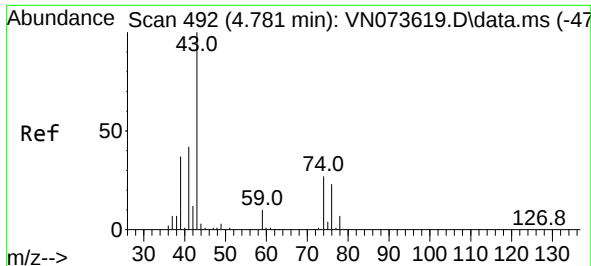
Tgt Ion: 76 Resp: 2862

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

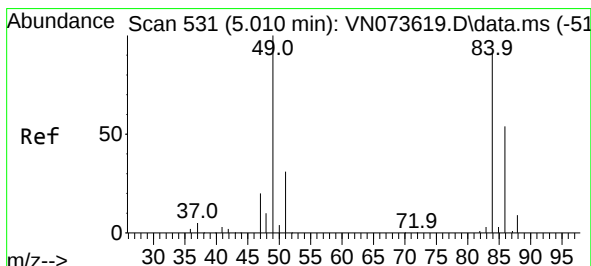
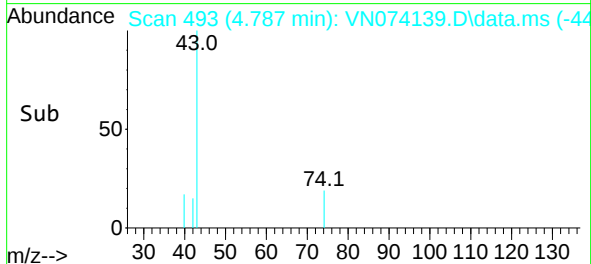
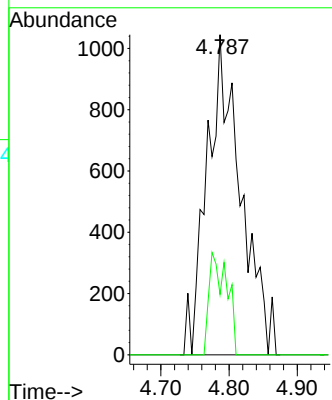
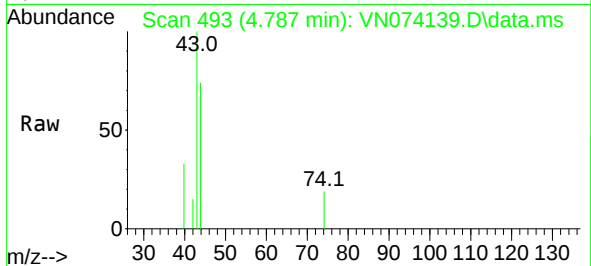




#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 493
Delta R.T. 0.006 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

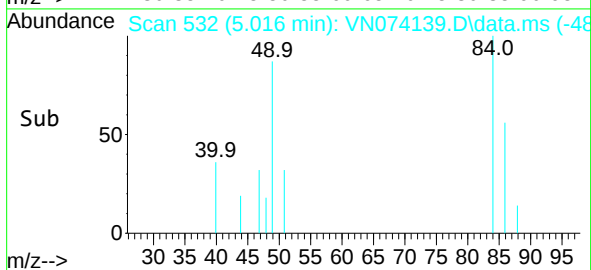
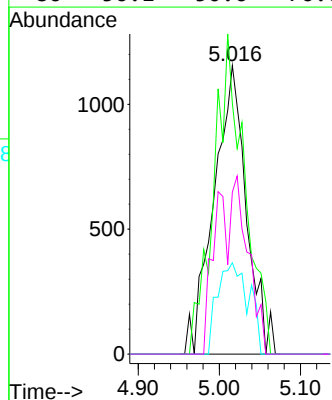
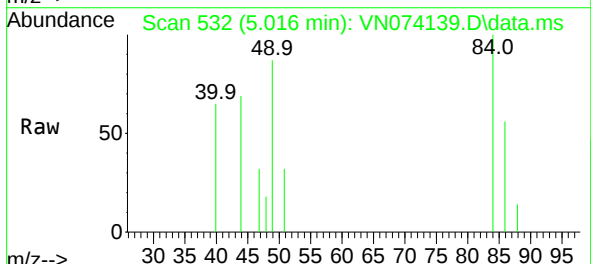
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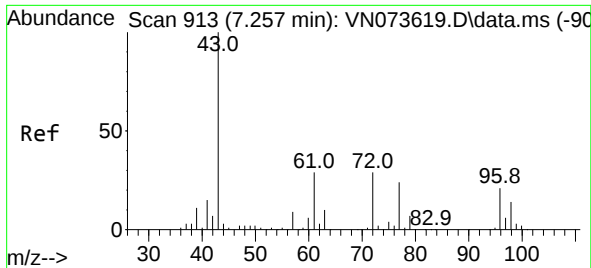
Tgt Ion: 43 Resp: 3592
Ion Ratio Lower Upper
43 100
74 16.8 21.6 32.4#



#20
Methylene Chloride
Concen: 0.551 ug/l
RT: 5.016 min Scan# 532
Delta R.T. 0.006 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

Tgt Ion: 84 Resp: 3212
Ion Ratio Lower Upper
84 100
49 86.9 88.3 132.5#
51 31.7 28.2 42.2
86 56.1 50.6 76.0





#25

2-Butanone

Concen: 0.353 ug/l

RT: 7.263 min Scan# 913

Delta R.T. 0.006 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

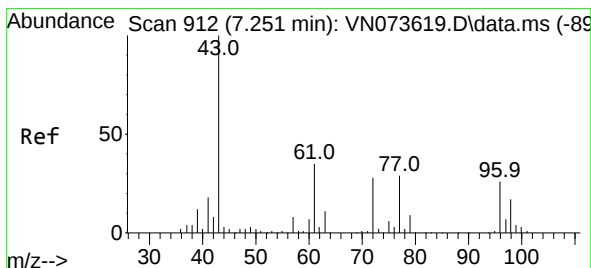
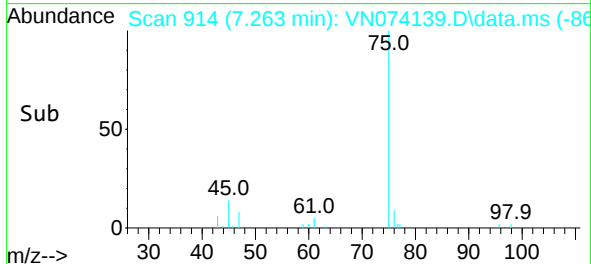
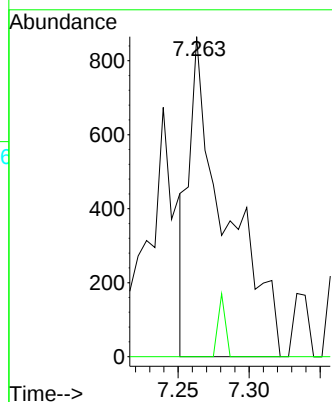
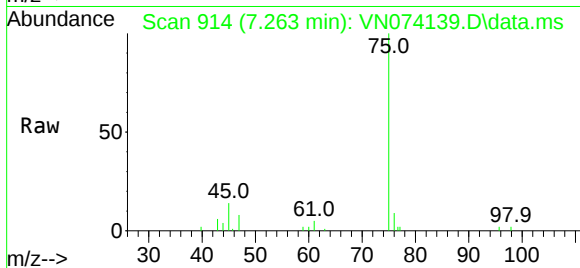
RE103D1-20220818DL

Tgt Ion: 43 Resp: 1545

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#26

2,2-Dichloropropane

Concen: 0.284 ug/l

RT: 7.257 min Scan# 913

Delta R.T. 0.006 min

Lab File: VN074139.D

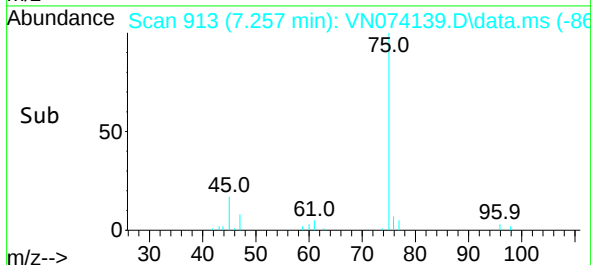
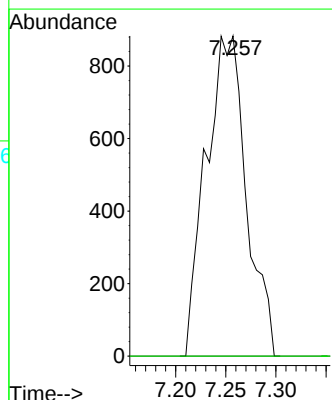
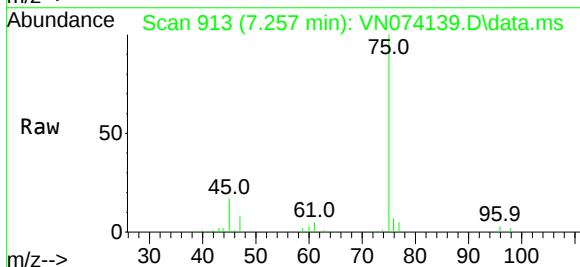
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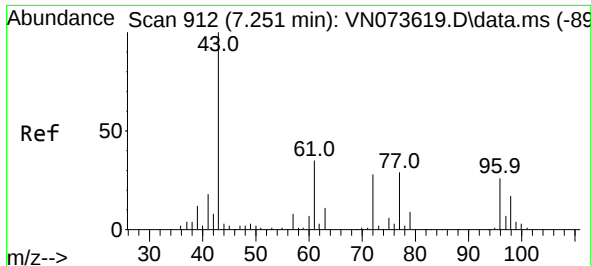
Tgt Ion: 77 Resp: 2475

Ion Ratio Lower Upper

77 100

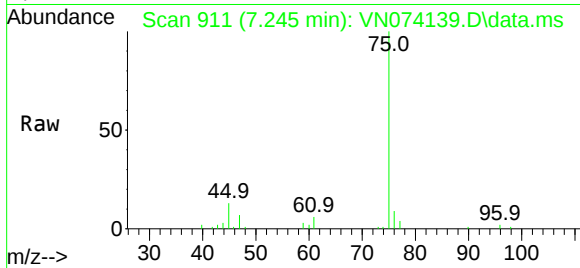
97 0.0 11.4 34.2#



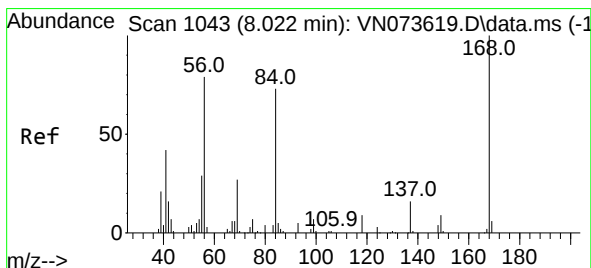
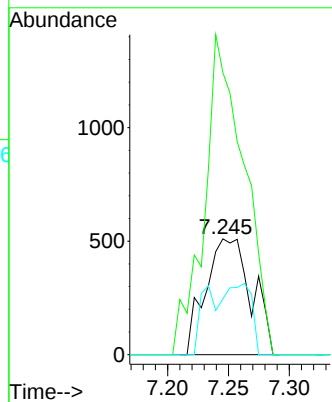
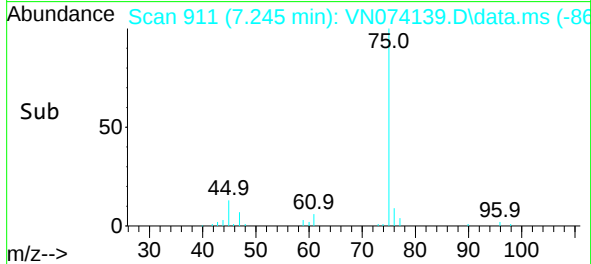


#27
 cis-1,2-Dichloroethene
 Concen: 0.207 ug/l
 RT: 7.245 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VN074139.D
 Acq: 26 Aug 2022 16:33

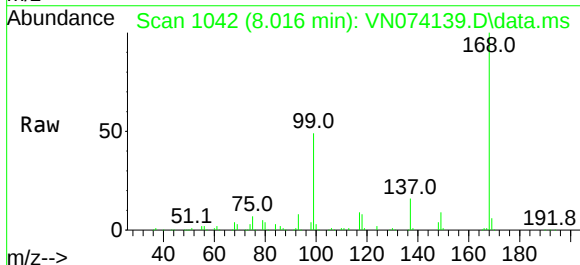
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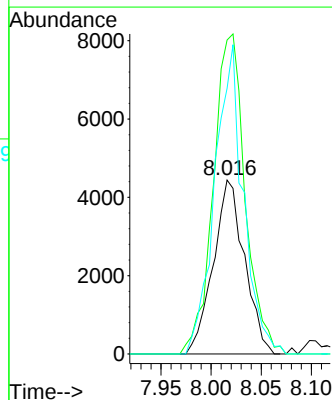
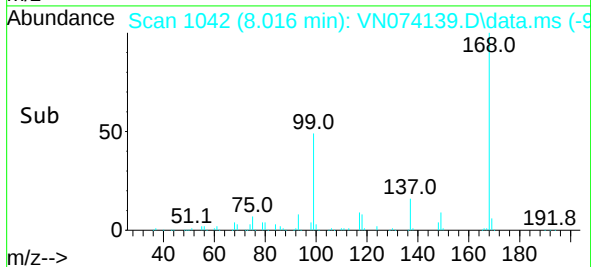
Tgt Ion:	96	Resp:	1337
Ion	Ratio	Lower	Upper
96	100		
61	238.7	0.0	280.6
98	20.3	0.0	128.4

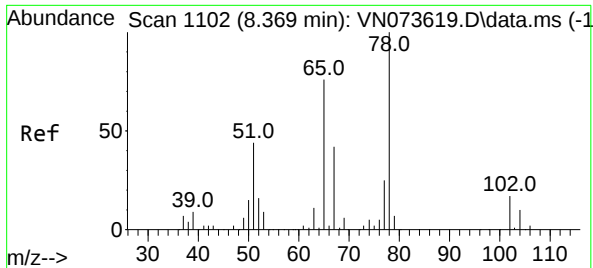


#31
 Cyclohexane
 Concen: 1.179 ug/l
 RT: 8.016 min Scan# 1042
 Delta R.T. -0.006 min
 Lab File: VN074139.D
 Acq: 26 Aug 2022 16:33



Tgt Ion:	56	Resp:	9617
Ion	Ratio	Lower	Upper
56	100		
69	180.5	27.8	41.8#
84	152.8	76.9	115.3#





#33

1,2-Dichloroethane-d4

Concen: 52.428 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

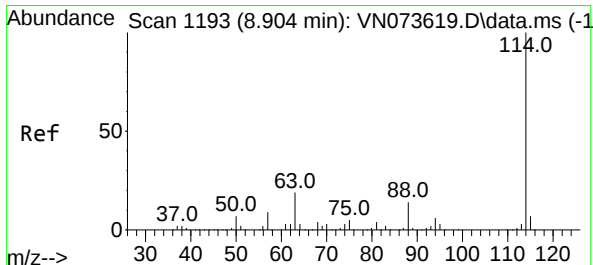
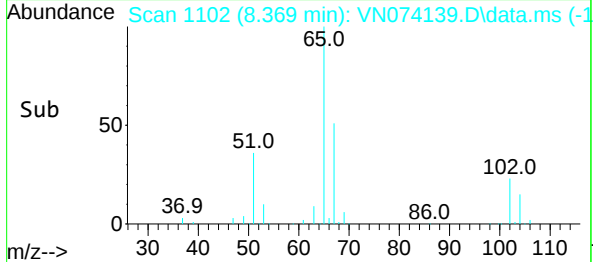
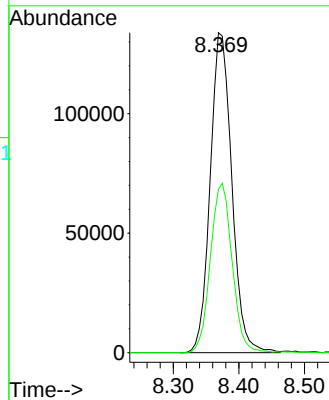
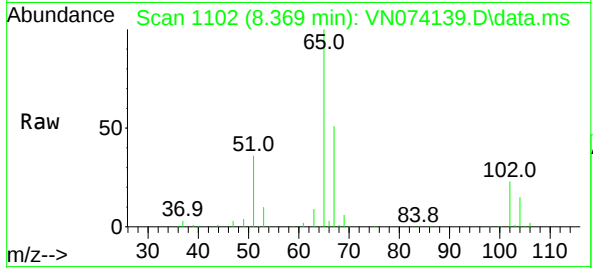
RE103D1-20220818DL

Tgt Ion: 65 Resp: 306825

Ion Ratio Lower Upper

65 100

67 53.4 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

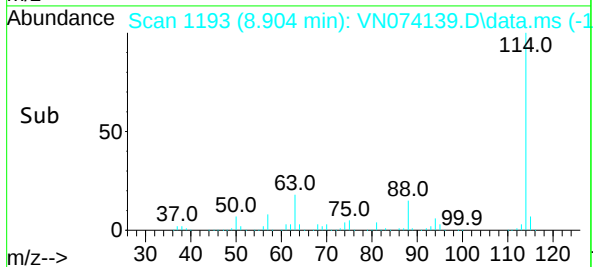
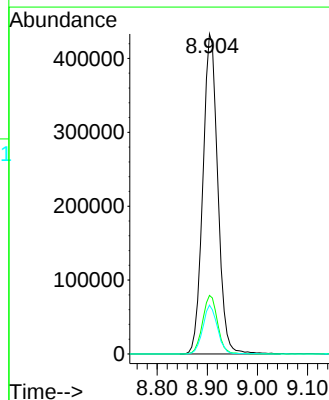
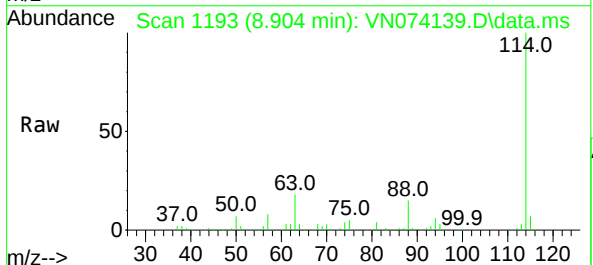
Tgt Ion: 114 Resp: 897085

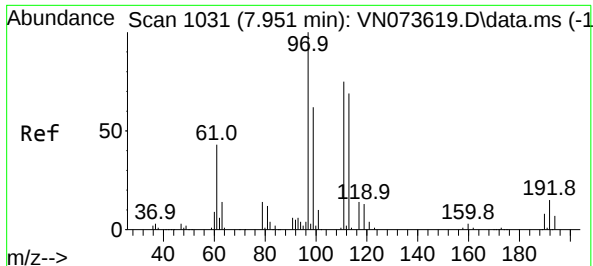
Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.0

88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.295 ug/l

RT: 7.951 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VN074139.D

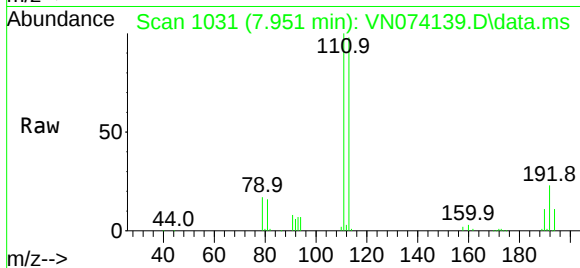
Acq: 26 Aug 2022 16:33

Instrument :

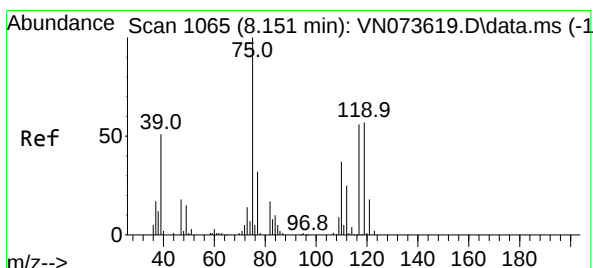
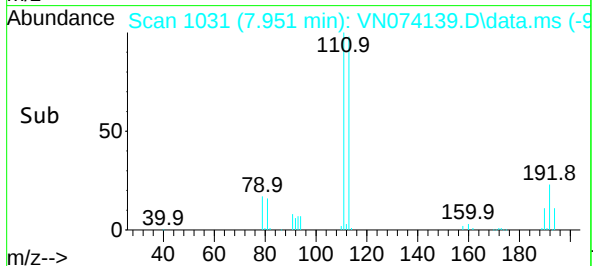
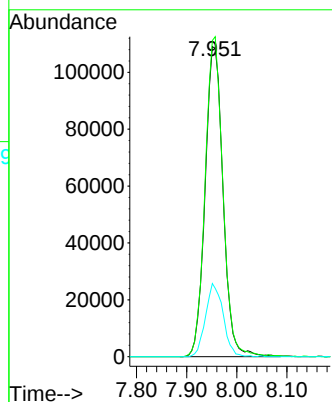
MSVOA_N

ClientSampleId :

RE103D1-20220818DL



Tgt Ion:	113	Resp:	272136
Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.4	122.0
192	23.1	17.0	25.6



#36

1,1-Dichloropropene

Concen: 5.372 ug/l

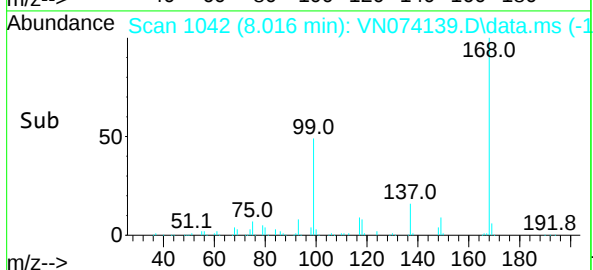
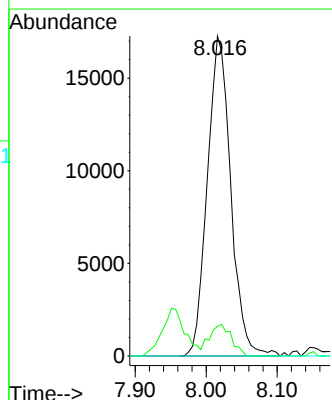
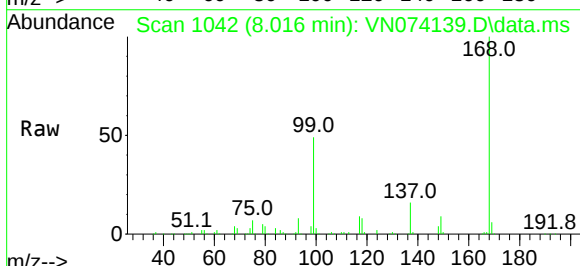
RT: 8.016 min Scan# 1042

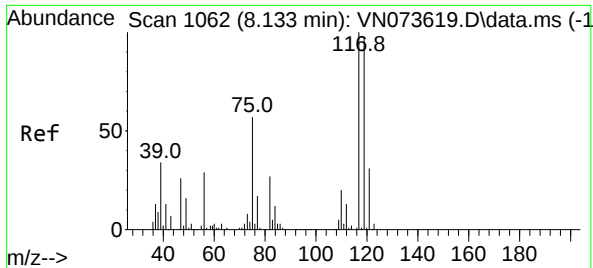
Delta R.T. -0.135 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

Tgt Ion:	75	Resp:	39585
Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.3	54.8#
77	0.0	25.1	37.7#

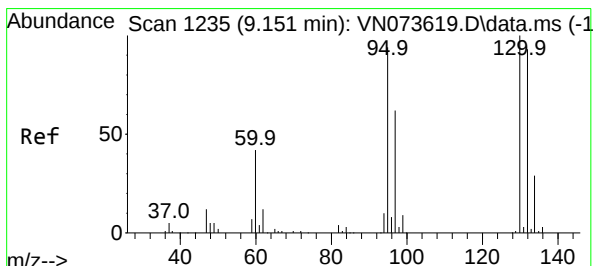
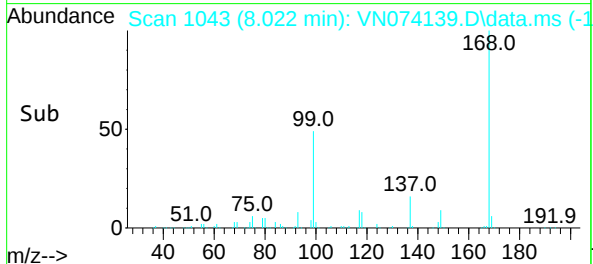
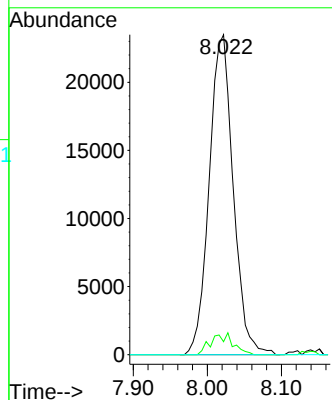
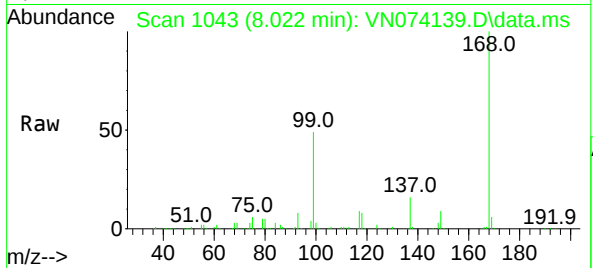




#38
Carbon Tetrachloride
Concen: 6.280 ug/l
RT: 8.022 min Scan# 117
Delta R.T. -0.111 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

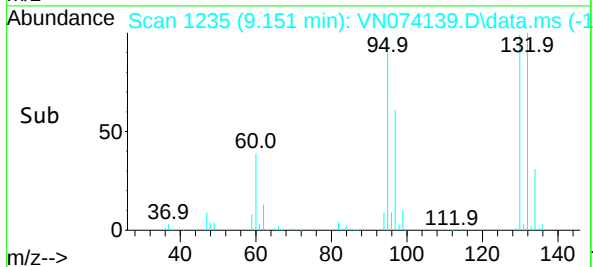
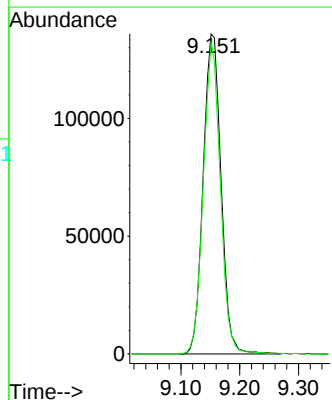
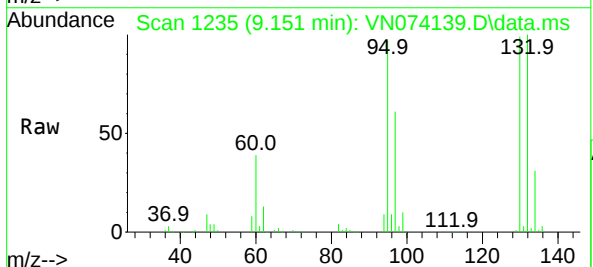
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20220818DL

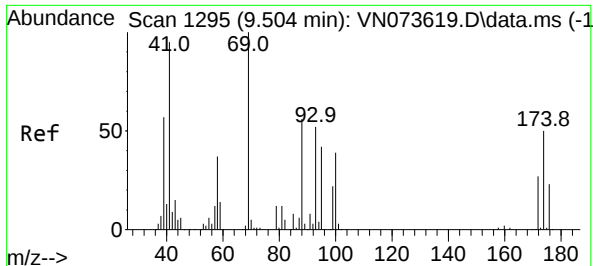
Tgt Ion:117 Resp: 52896
Ion Ratio Lower Upper
117 100
119 4.0 75.8 113.8#
121 0.0 24.6 37.0#



#44
Trichloroethene
Concen: 42.567 ug/l
RT: 9.151 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

Tgt Ion:130 Resp: 285936
Ion Ratio Lower Upper
130 100
95 97.3 0.0 186.8





#49

1,4-Dioxane

Concen: 1.841 ug/l

RT: 9.516 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

RE103D1-20220818DL

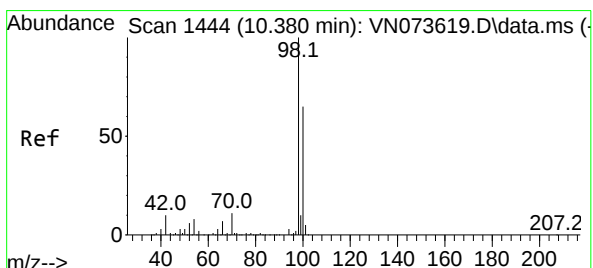
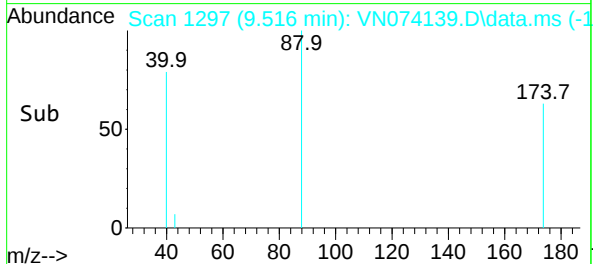
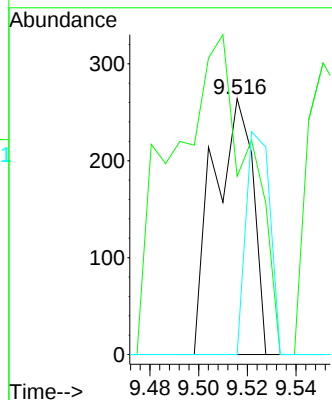
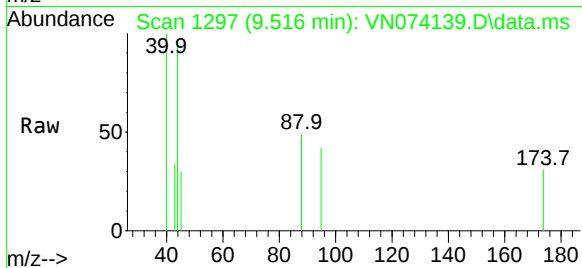
Tgt Ion: 88 Resp: 298

Ion Ratio Lower Upper

88 100

43 242.6 20.2 30.4#

58 52.7 54.2 81.4#



#50

Toluene-d8

Concen: 48.801 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074139.D

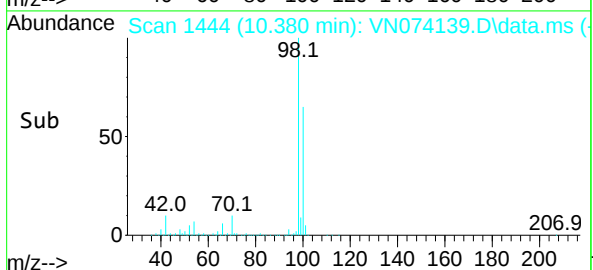
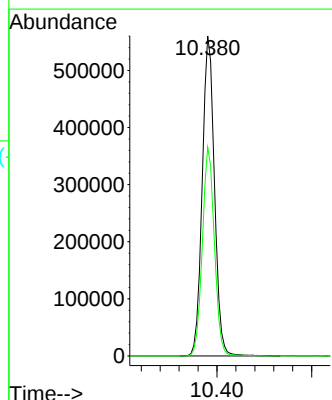
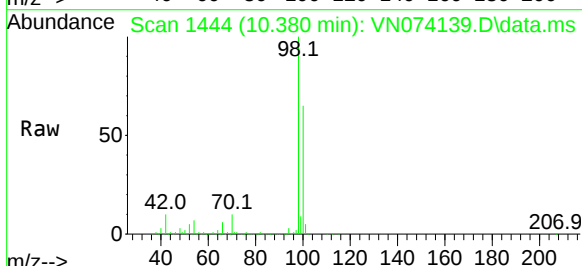
Acq: 26 Aug 2022 16:33

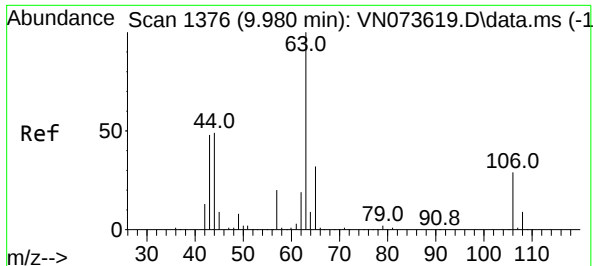
Tgt Ion: 98 Resp: 1002703

Ion Ratio Lower Upper

98 100

100 64.5 52.6 78.8





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 9.980 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

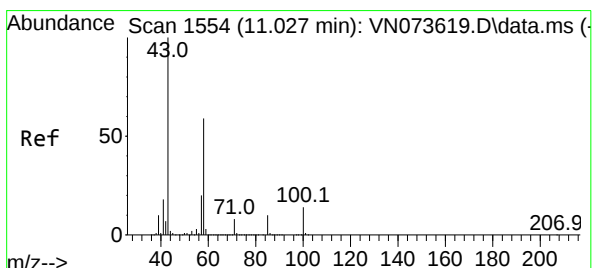
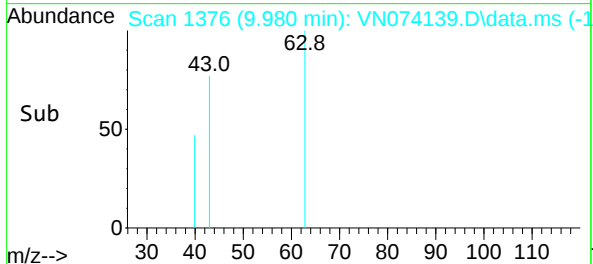
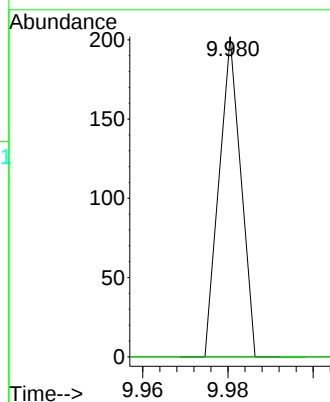
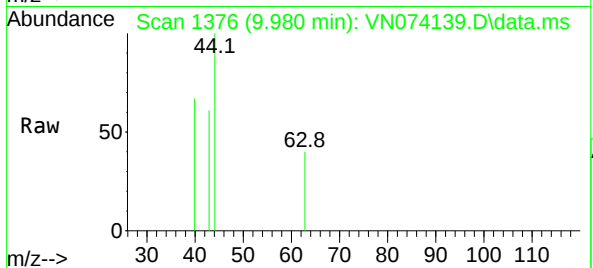
RE103D1-20220818DL

Tgt Ion: 63 Resp: 71

Ion Ratio Lower Upper

63 100

106 0.0 24.6 36.8#



#59

2-Hexanone

Concen: 0.365 ug/l

RT: 11.027 min Scan# 1554

Delta R.T. 0.000 min

Lab File: VN074139.D

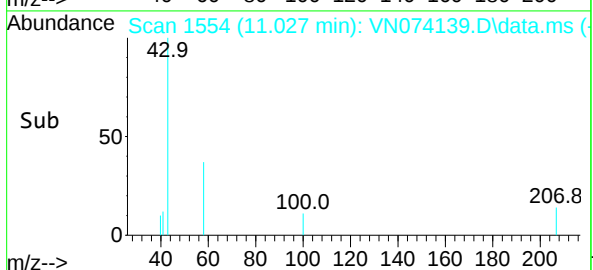
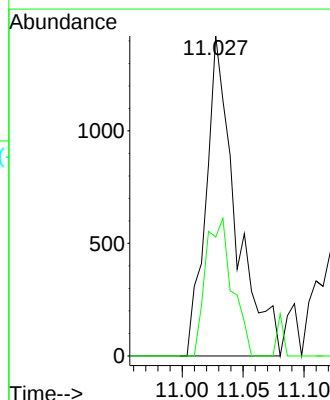
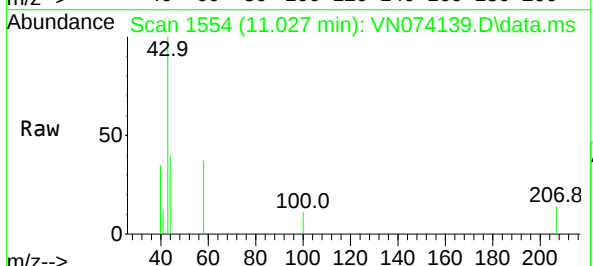
Acq: 26 Aug 2022 16:33

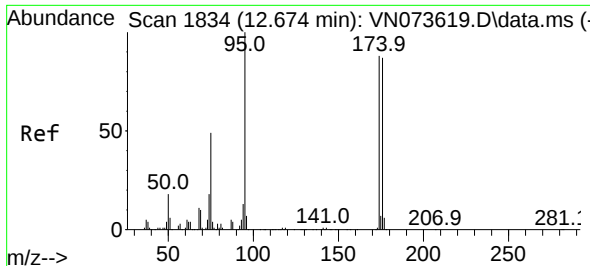
Tgt Ion: 43 Resp: 2417

Ion Ratio Lower Upper

43 100

58 38.4 29.7 89.1

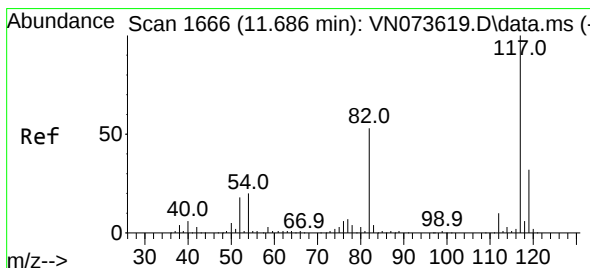
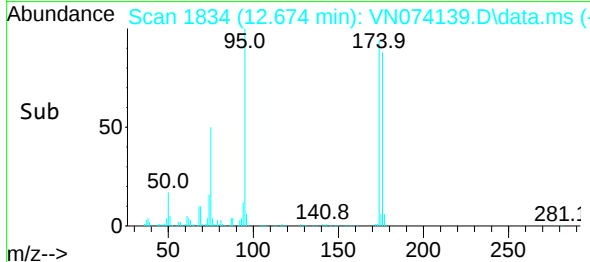
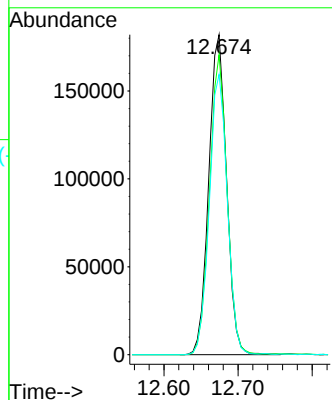
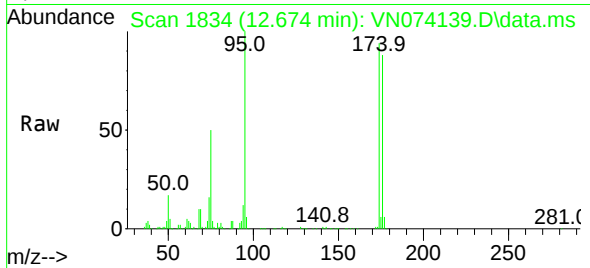




#62
4-Bromofluorobenzene
Concen: 44.507 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

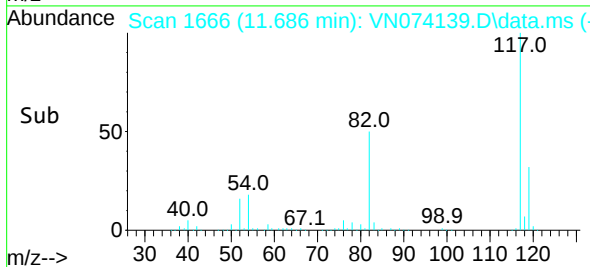
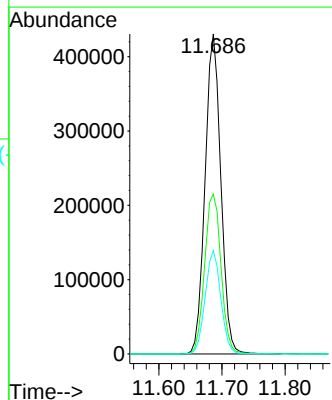
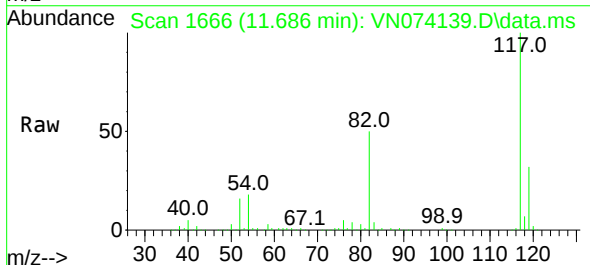
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20220818DL

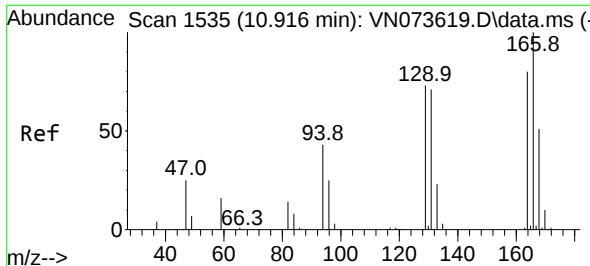
Tgt Ion: 95 Resp: 303502
Ion Ratio Lower Upper
95 100
174 92.6 0.0 167.6
176 88.3 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

Tgt Ion: 117 Resp: 747957
Ion Ratio Lower Upper
117 100
82 50.0 44.2 66.2
119 32.3 25.4 38.0

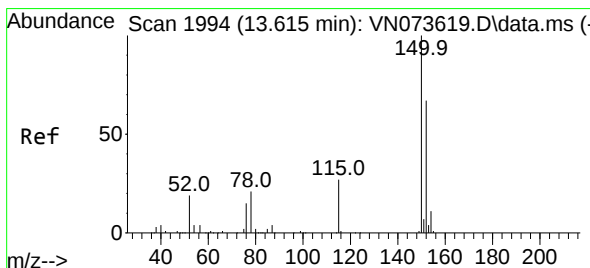
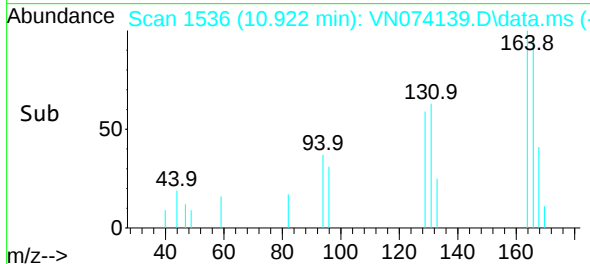
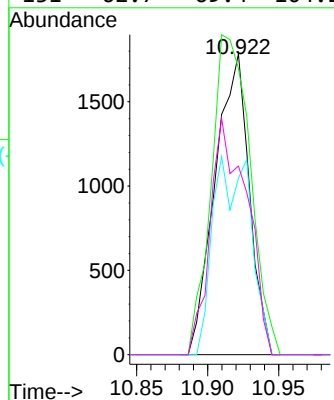
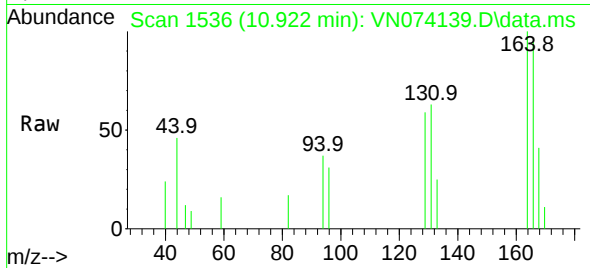




#64
Tetrachloroethene
Concen: 0.504 ug/l
RT: 10.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

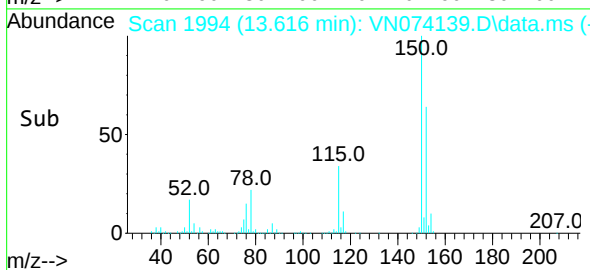
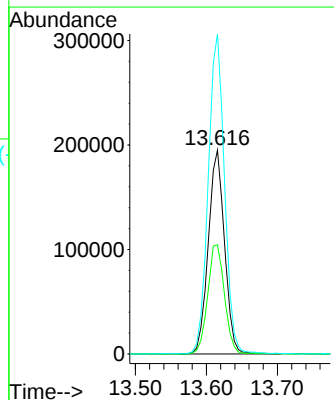
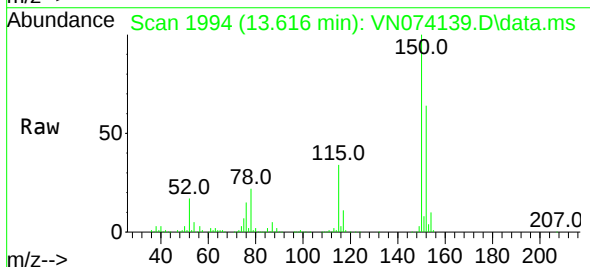
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20220818DL

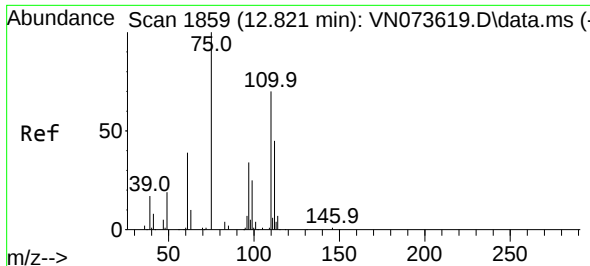
Tgt Ion:164 Resp: 2976
Ion Ratio Lower Upper
164 100
166 95.2 104.2 156.2#
129 58.7 73.9 110.9#
131 62.7 69.4 104.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.001 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

Tgt Ion:152 Resp: 311083
Ion Ratio Lower Upper
152 100
115 55.4 28.9 86.7
150 157.1 0.0 356.2

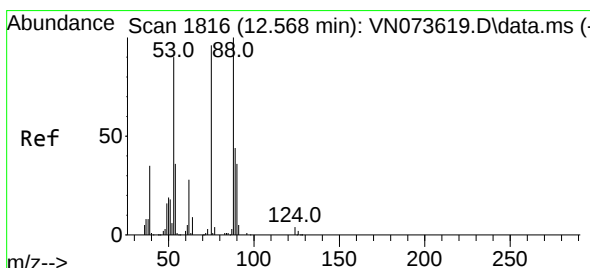
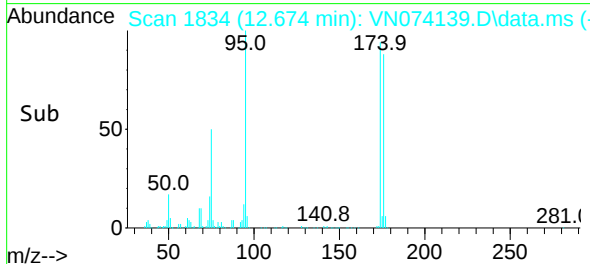
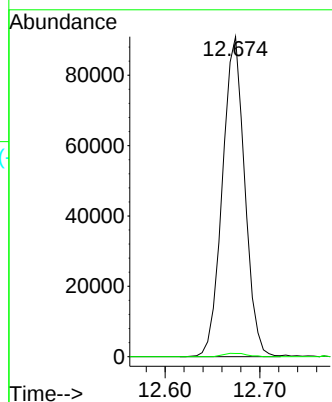
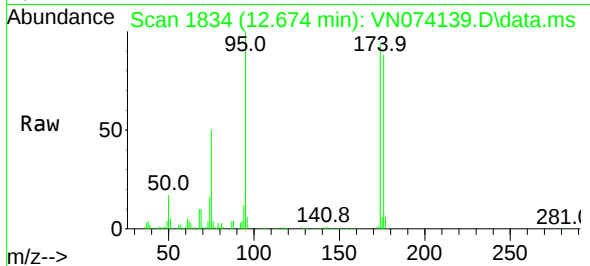




#76
1,2,3-Trichloropropane
Concen: 23.056 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

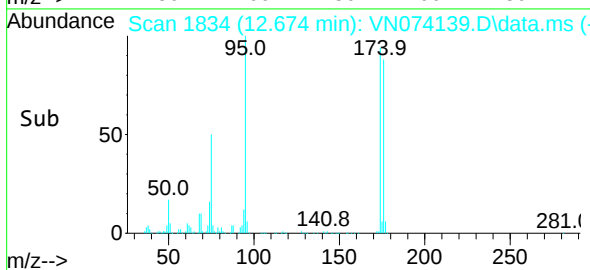
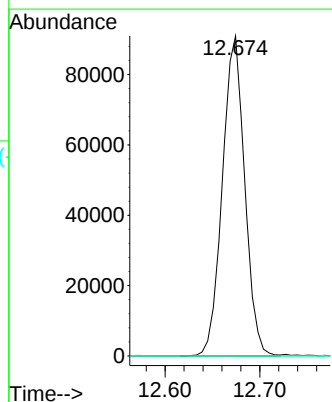
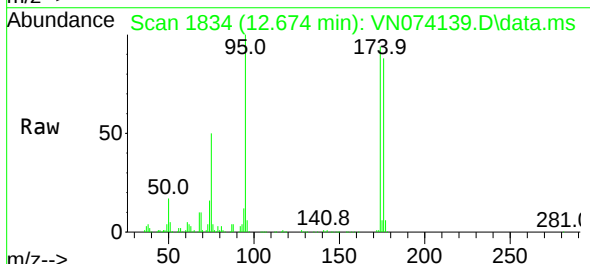
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20220818DL

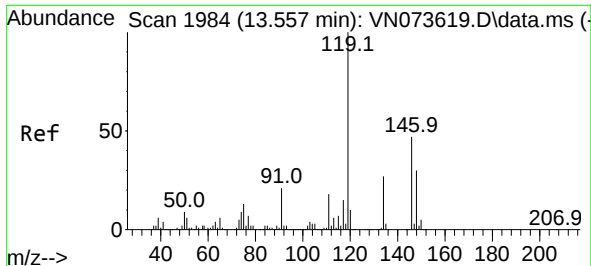
Tgt Ion: 75 Resp: 149076
Ion Ratio Lower Upper
75 100
77 1.1 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.575 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

Tgt Ion: 75 Resp: 149076
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#





#87

1,3-Dichlorobenzene

Concen: 0.215 ug/l

RT: 13.551 min Scan# 1983

Delta R.T. -0.006 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

Instrument :

MSVOA_N

ClientSampleId :

RE103D1-20220818DL

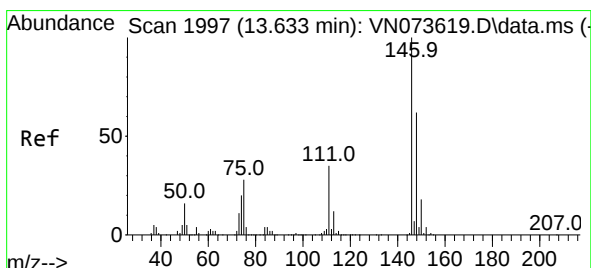
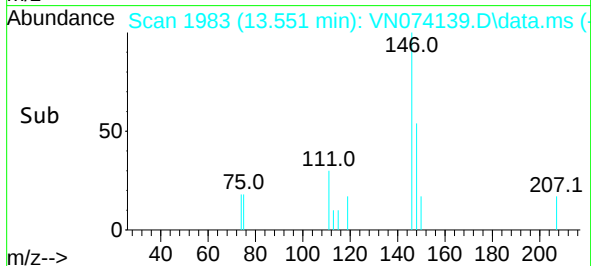
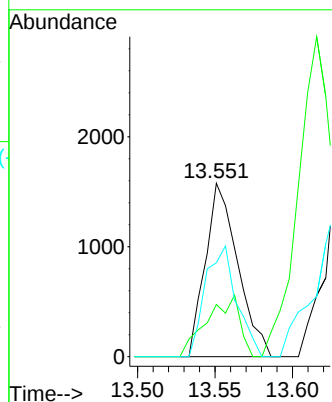
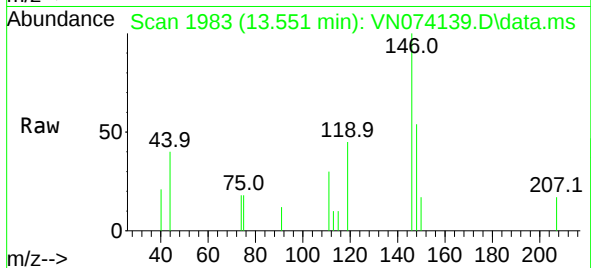
Tgt Ion:146 Resp: 2288

Ion Ratio Lower Upper

146 100

111 35.8 20.0 60.0

148 61.7 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.212 ug/l

RT: 13.551 min Scan# 1983

Delta R.T. -0.082 min

Lab File: VN074139.D

Acq: 26 Aug 2022 16:33

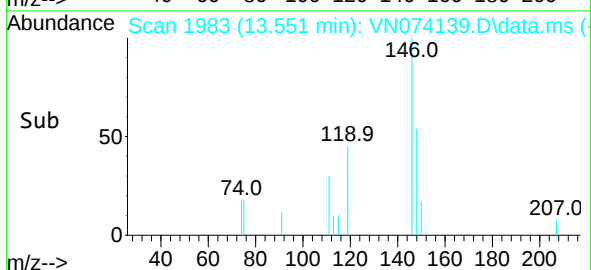
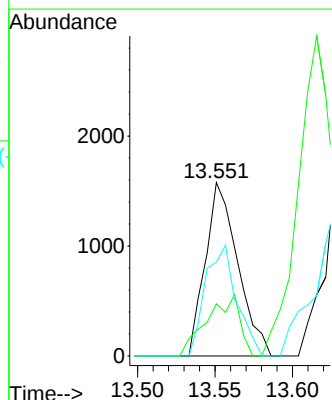
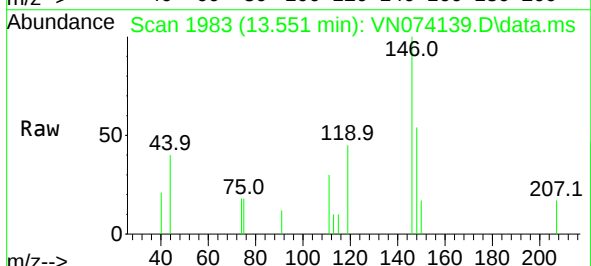
Tgt Ion:146 Resp: 2288

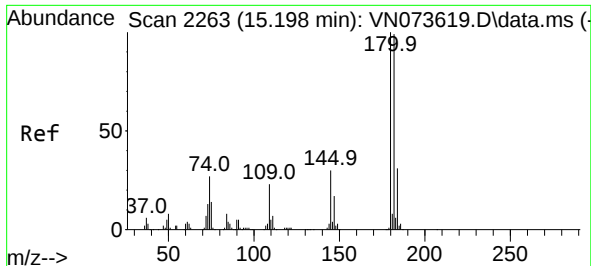
Ion Ratio Lower Upper

146 100

111 35.8 19.1 57.1

148 61.7 31.4 94.3

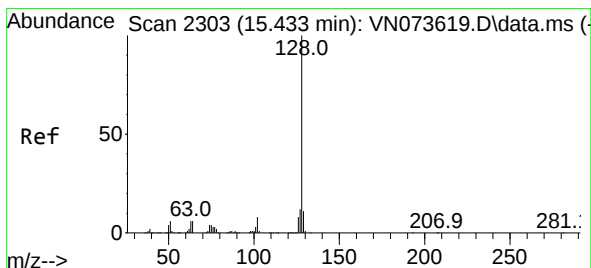
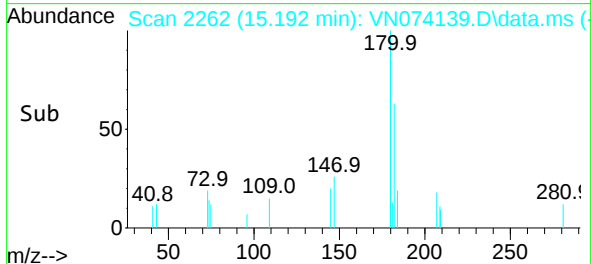
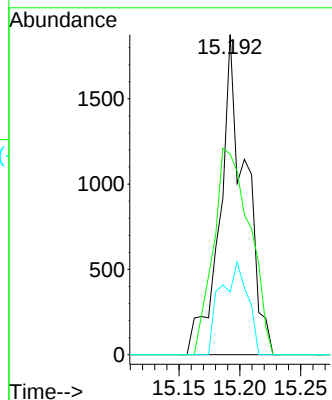
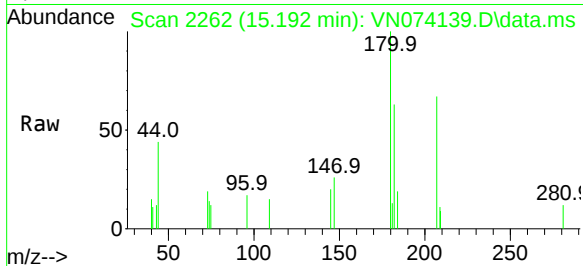




#93
1,2,4-Trichlorobenzene
Concen: 0.409 ug/l
RT: 15.192 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

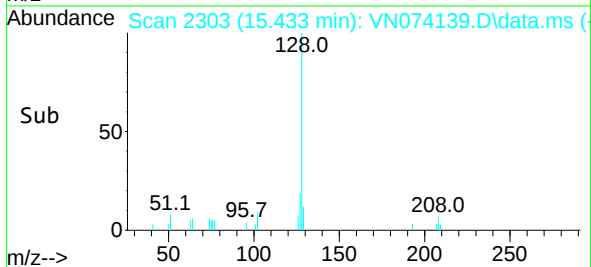
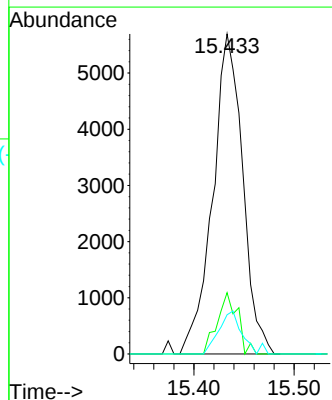
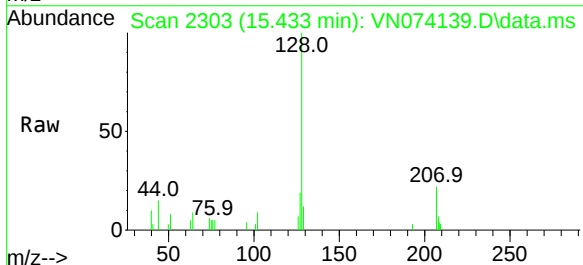
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20220818DL

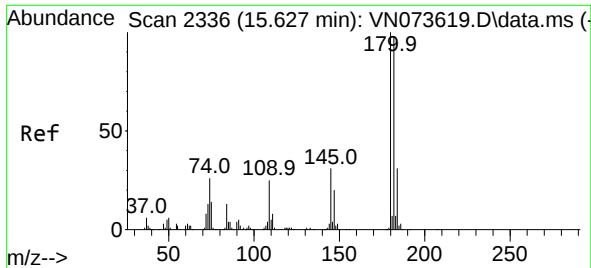
Tgt Ion:180 Resp: 2733
Ion Ratio Lower Upper
180 100
182 91.9 47.5 142.5
145 30.6 14.5 43.5



#95
Naphthalene
Concen: 0.542 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN074139.D
Acq: 26 Aug 2022 16:33

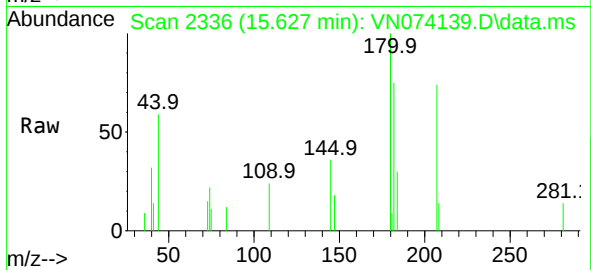
Tgt Ion:128 Resp: 11803
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 10.5 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.476 ug/l
 RT: 15.627 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN074139.D
 Acq: 26 Aug 2022 16:33

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D1-20220818DL



Tgt Ion:	180	Resp:	3291
Ion	Ratio	Lower	Upper
180	100		
182	97.7	47.8	143.3
145	25.9	15.5	46.5

