

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022522\
 Data File : VN071074.D
 Acq On : 25 Feb 2022 16:58
 Operator : JC\MD
 Sample : N1664-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Feb 26 03:43:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 07:57:15 2022
 Response via : Initial Calibration

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

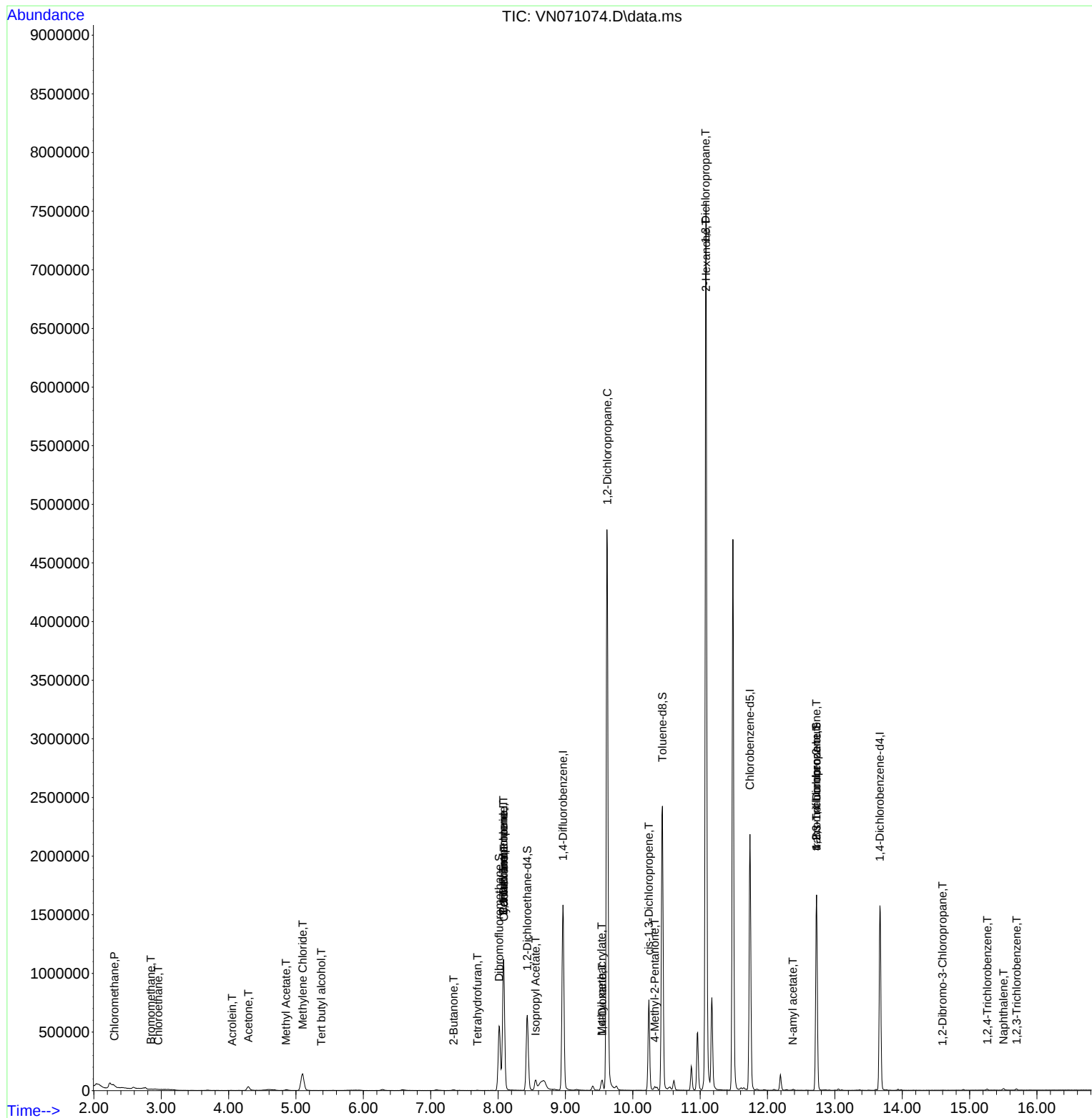
Internal Standards						
1) Pentafluorobenzene	8.081	168	856912	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1389661	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1254266	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	443785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	532055	54.354	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 108.700%	
35) Dibromofluoromethane	8.016	113	402632	48.711	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 97.420%	
50) Toluene-d8	10.439	98	1702326	51.284	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 102.560%	
62) 4-Bromofluorobenzene	12.727	95	595497	50.189	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 100.380%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.305	50	3791	0.339	ug/l #	77
5) Bromomethane	2.846	94	1664	0.262	ug/l #	77
6) Chloroethane	2.957	64	1784	0.243	ug/l #	42
11) Tert butyl alcohol	5.375	59	845	0.474	ug/l #	71
13) Acrolein	4.051	56	888	0.557	ug/l	83
16) Acetone	4.293	43	58495	10.851	ug/l	95
18) Methyl Acetate	4.851	43	15935	0.757	ug/l #	71
20) Methylene Chloride	5.098	84	113680	11.603	ug/l	95
25) 2-Butanone	7.340	43	11808	1.647	ug/l	96
29) Tetrahydrofuran	7.692	42	1893	0.407	ug/l #	85
31) Cyclohexane	8.087	56	18024	1.065	ug/l #	16
36) 1,1-Dichloropropene	8.081	75	66312	4.897	ug/l #	49
38) Carbon Tetrachloride	8.081	117	84499	6.333	ug/l #	16
43) Isopropyl Acetate	8.557	43	106864	4.668	ug/l #	86
45) 1,2-Dichloropropane	9.622	63	6530	0.636	ug/l #	44
48) Methyl methacrylate	9.539	41	25226	2.328	ug/l #	9
49) 1,4-Dioxane	9.545	88	125	0.650	ug/l #	1
51) 4-Methyl-2-Pentanone	10.328	43	23548	1.691	ug/l	93
54) cis-1,3-Dichloropropene	10.239	75	133459	8.189	ug/l #	58
57) 1,3-Dichloropropane	11.080	76	79369	4.657	ug/l #	43
59) 2-Hexanone	11.086	43	1222028	127.573	ug/l #	50
74) N-amyl acetate	12.374	43	5827	0.510	ug/l #	85
76) 1,2,3-Trichloropropane	12.727	75	300301	28.740	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	300301	93.130	ug/l #	5
92) 1,2-Dibromo-3-Chloropr...	14.598	75	423	0.230	ug/l #	44
93) 1,2,4-Trichlorobenzene	15.263	180	3514	2.412	ug/l	98
95) Naphthalene	15.504	128	12350	5.550	ug/l	96
96) 1,2,3-Trichlorobenzene	15.698	180	3951	3.014	ug/l	97

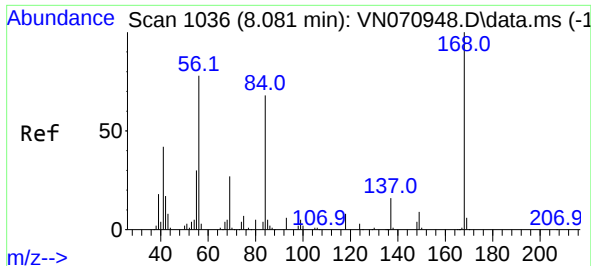
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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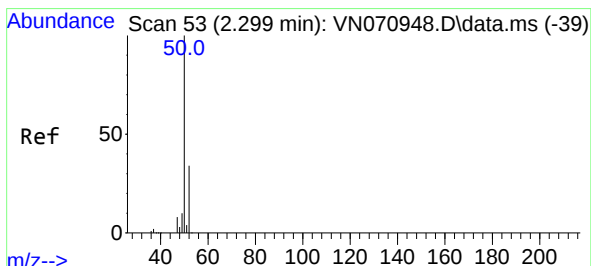
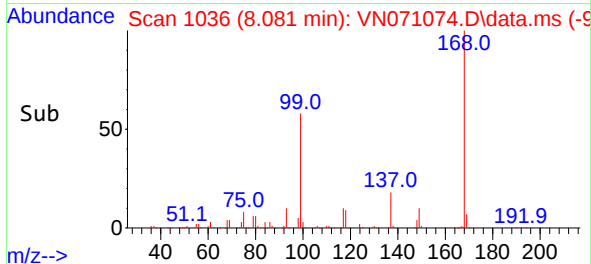
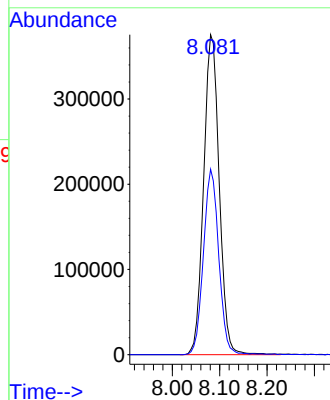
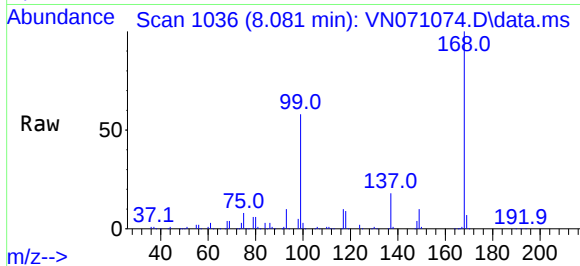




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

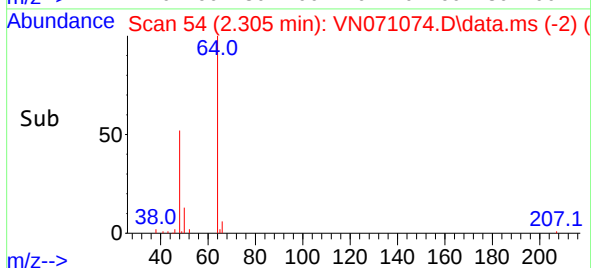
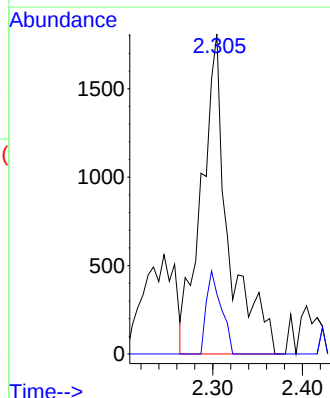
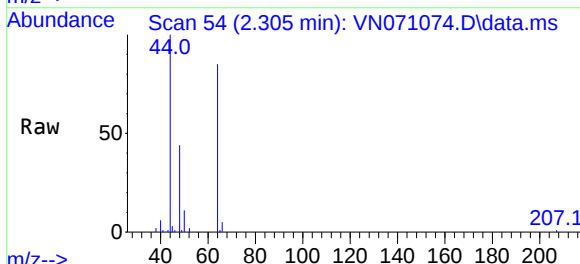
Instrument :
MSVOA_N
ClientSampleId :
TP-2

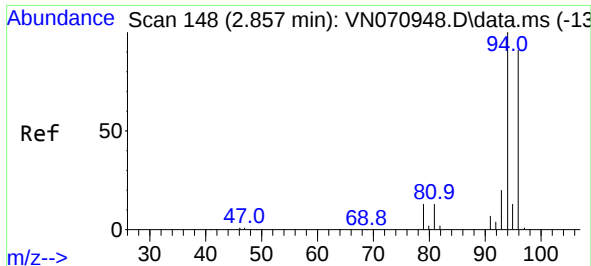
Tgt Ion:168 Resp: 856912
Ion Ratio Lower Upper
168 100
99 57.9 41.3 61.9



#3
Chloromethane
Concen: 0.339 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 50 Resp: 3791
Ion Ratio Lower Upper
50 100
52 18.8 25.4 38.0#

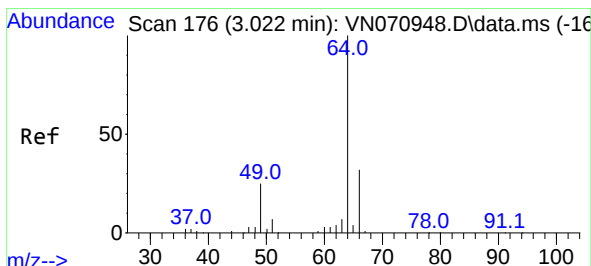
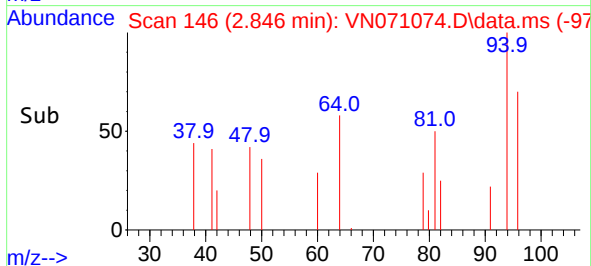
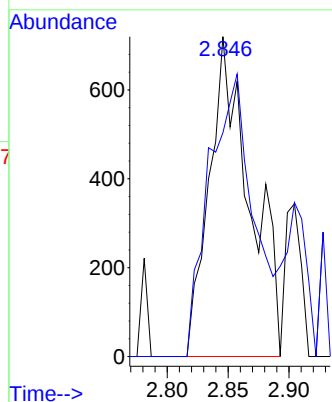
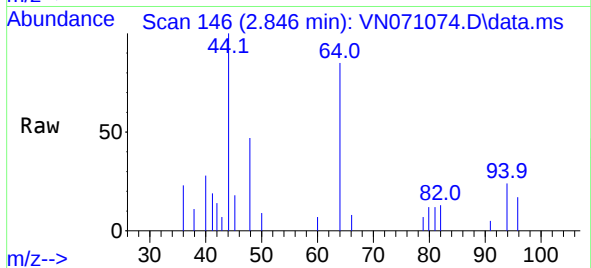




#5
Bromomethane
Concen: 0.262 ug/l
RT: 2.846 min Scan# 14
Delta R.T. -0.012 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

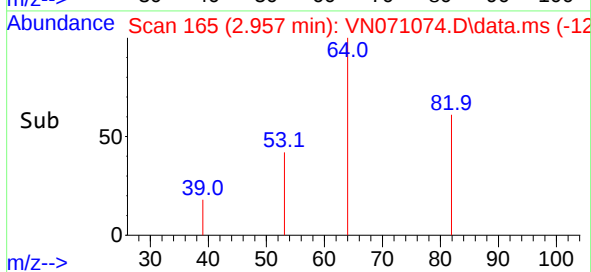
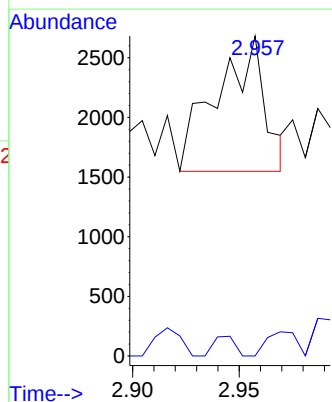
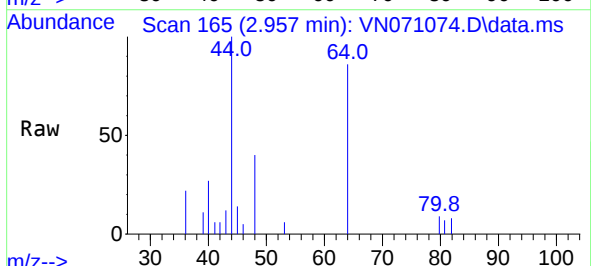
Instrument :
MSVOA_N
ClientSampleId :
TP-2

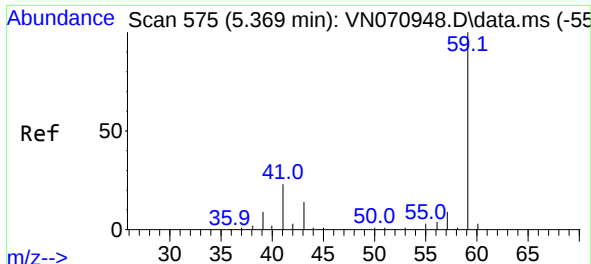
Tgt Ion: 94 Resp: 1664
Ion Ratio Lower Upper
94 100
96 70.0 73.8 110.8#



#6
Chloroethane
Concen: 0.243 ug/l
RT: 2.957 min Scan# 165
Delta R.T. -0.065 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 64 Resp: 1784
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#





#11

Tert butyl alcohol

Concen: 0.474 ug/l

RT: 5.375 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN071074.D

Acq: 25 Feb 2022 16:58

Instrument :

MSVOA_N

ClientSampleId :

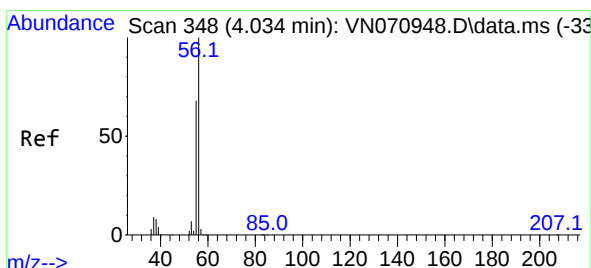
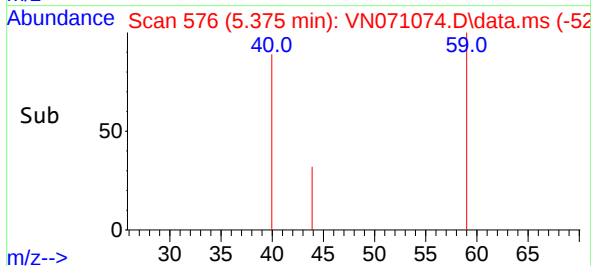
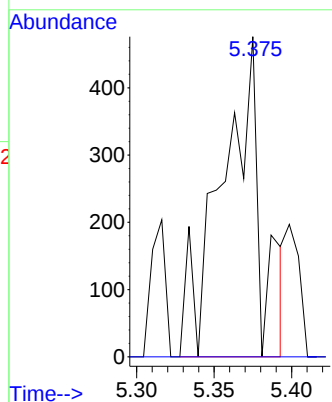
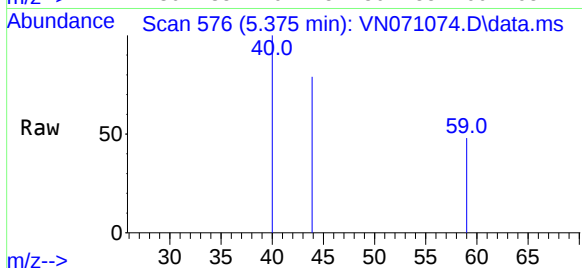
TP-2

Tgt Ion: 59 Resp: 845

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#13

Acrolein

Concen: 0.557 ug/l

RT: 4.051 min Scan# 351

Delta R.T. 0.018 min

Lab File: VN071074.D

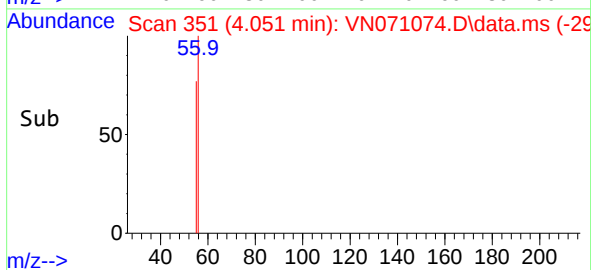
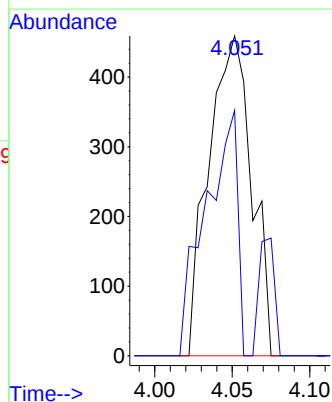
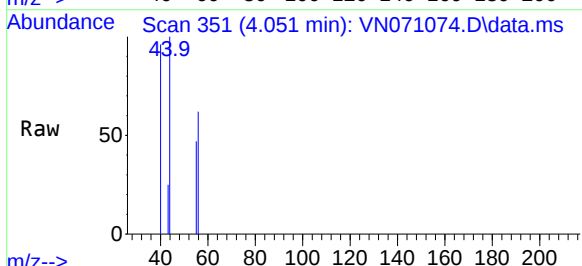
Acq: 25 Feb 2022 16:58

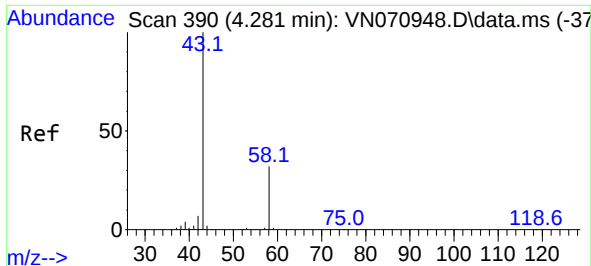
Tgt Ion: 56 Resp: 888

Ion Ratio Lower Upper

56 100

55 56.8 56.6 85.0

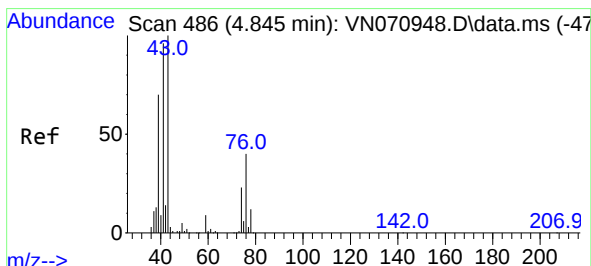
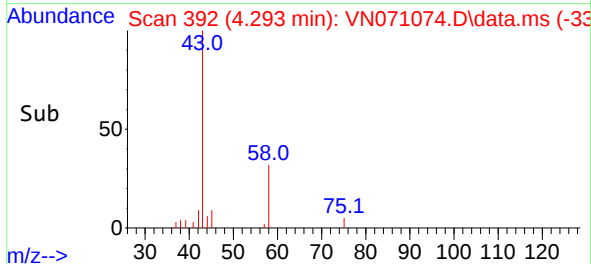
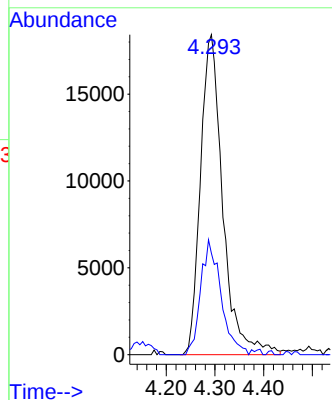
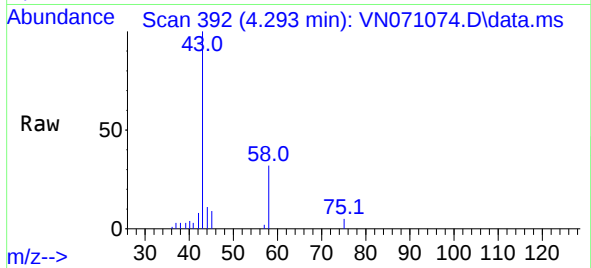




#16
Acetone
Concen: 10.851 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

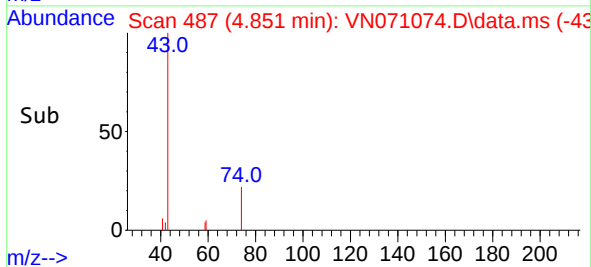
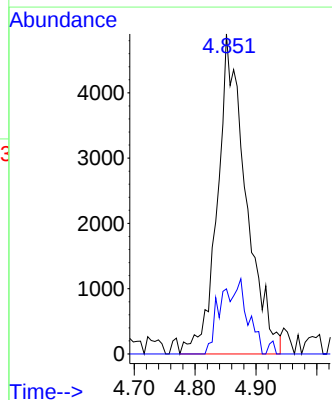
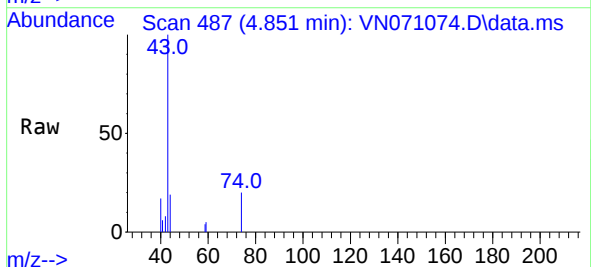
Instrument :
MSVOA_N
ClientSampleId :
TP-2

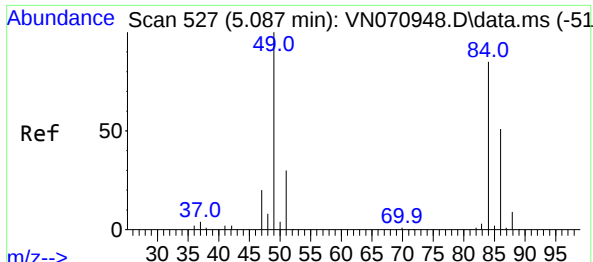
Tgt Ion: 43 Resp: 58495
Ion Ratio Lower Upper
43 100
58 31.7 23.1 34.7



#18
Methyl Acetate
Concen: 0.757 ug/l
RT: 4.851 min Scan# 487
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 43 Resp: 15935
Ion Ratio Lower Upper
43 100
74 10.0 19.4 29.2#



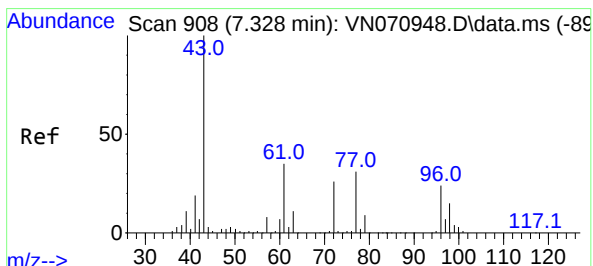
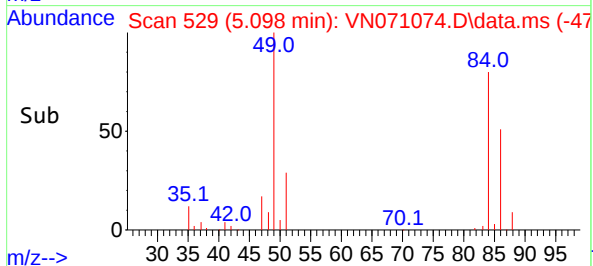
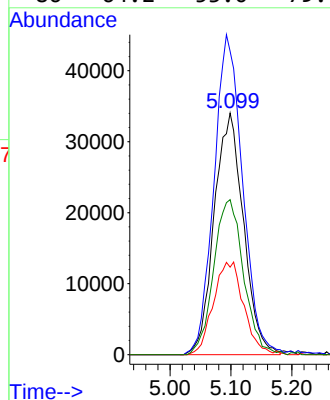
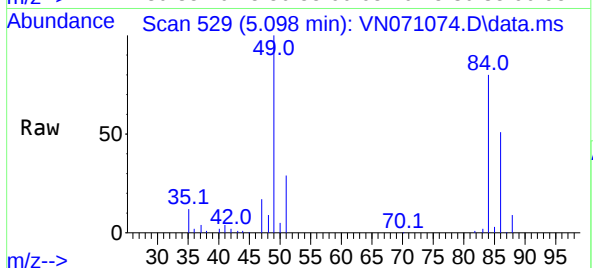


#20
Methylene Chloride
Concen: 11.603 ug/l
RT: 5.098 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt Ion: 84 Resp: 113680

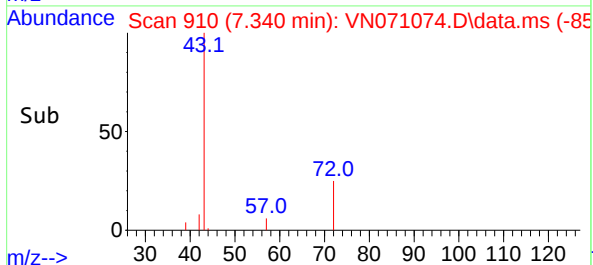
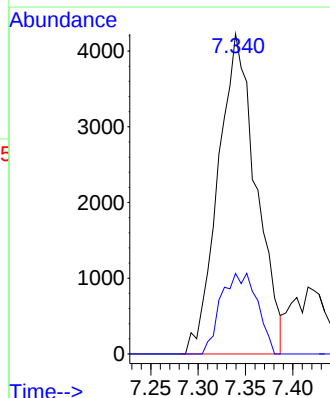
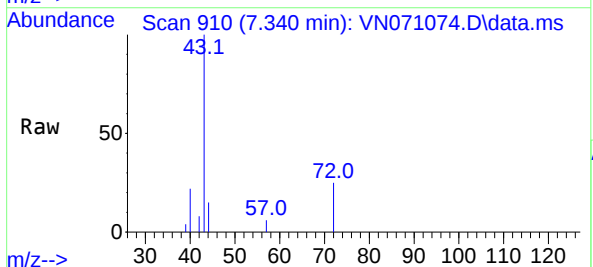
Ion	Ratio	Lower	Upper
84	100		
49	125.6	93.5	140.3
51	36.2	29.4	44.2
86	64.2	53.0	79.4

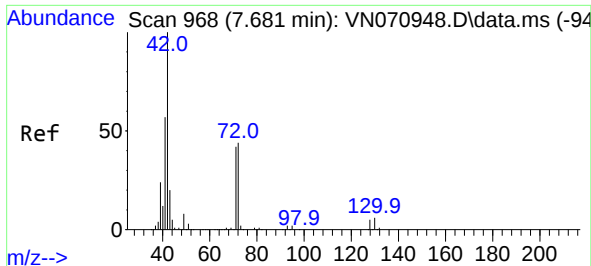


#25
2-Butanone
Concen: 1.647 ug/l
RT: 7.340 min Scan# 910
Delta R.T. 0.012 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 43 Resp: 11808

Ion	Ratio	Lower	Upper
43	100		
72	25.1	21.7	32.5

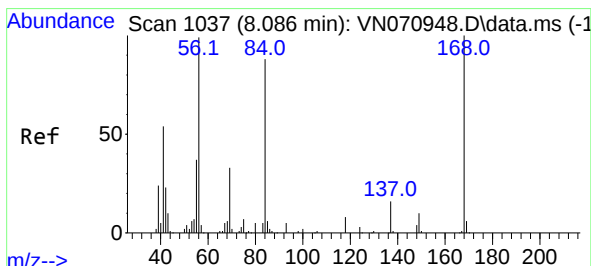
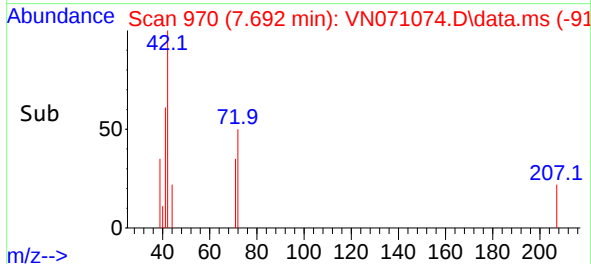
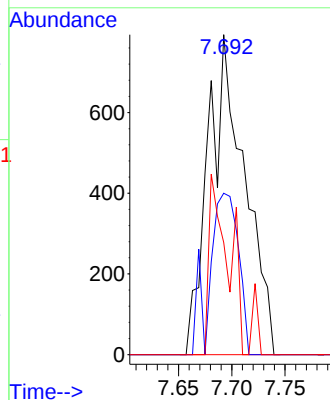
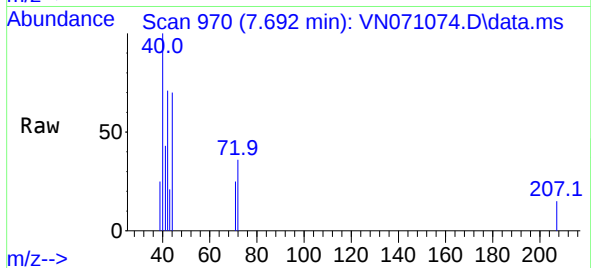




#29
Tetrahydrofuran
Concen: 0.407 ug/l
RT: 7.692 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

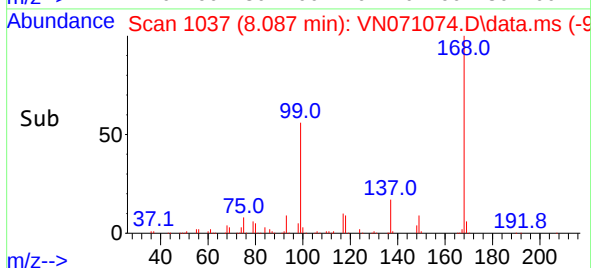
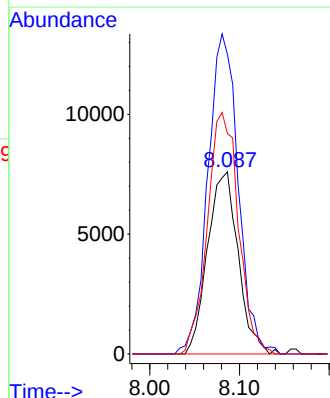
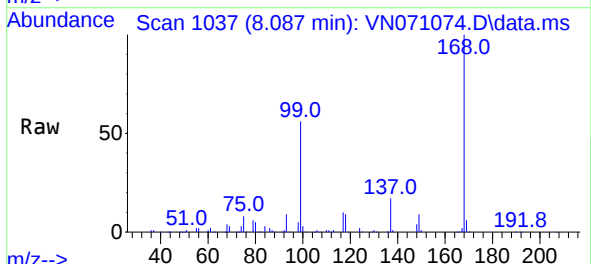
Instrument :
MSVOA_N
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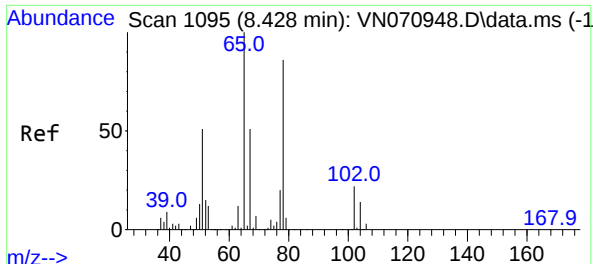
Tgt Ion: 42 Resp: 1893
Ion Ratio Lower Upper
42 100
72 40.0 36.3 54.5
71 29.6 34.7 52.1#



#31
Cyclohexane
Concen: 1.065 ug/l
RT: 8.087 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 56 Resp: 18024
Ion Ratio Lower Upper
56 100
69 164.6 27.1 40.7#
84 121.2 73.4 110.0#

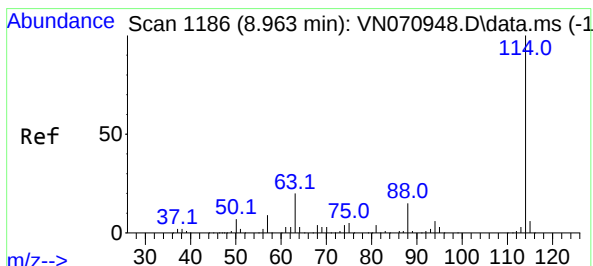
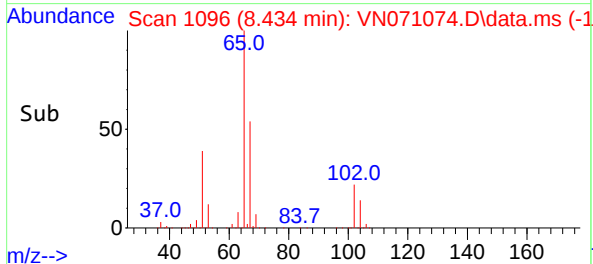
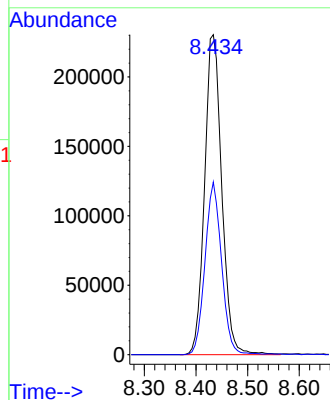
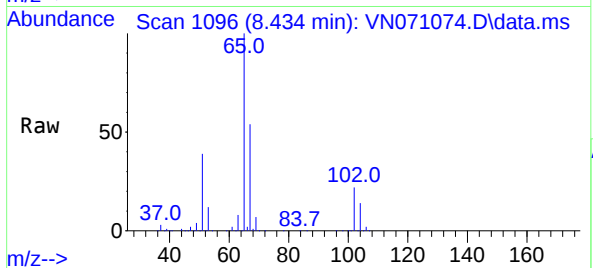




#33
1,2-Dichloroethane-d4
Concen: 54.354 ug/l
RT: 8.434 min Scan# 1095
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

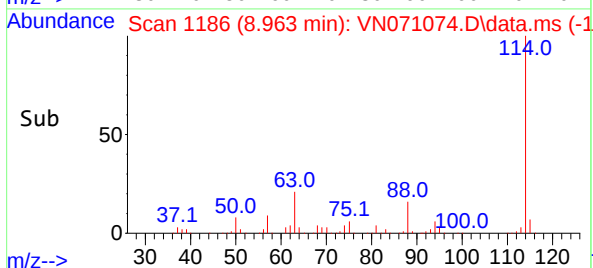
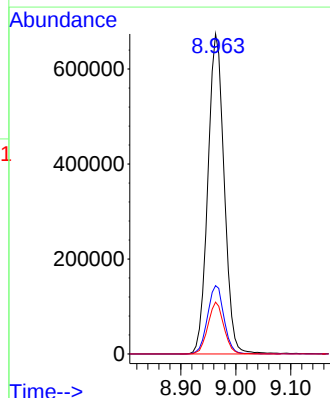
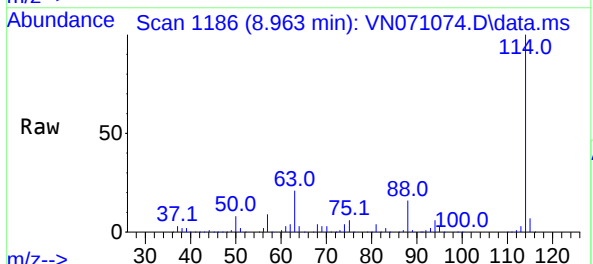
Instrument :
MSVOA_N
ClientSampleId :
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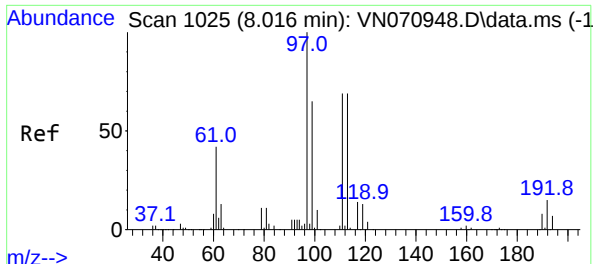
Tgt Ion: 65 Resp: 532055
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion:114 Resp: 1389661
Ion Ratio Lower Upper
114 100
63 21.3 0.0 37.8
88 16.2 0.0 27.4

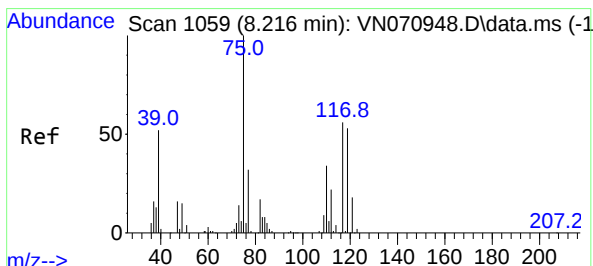
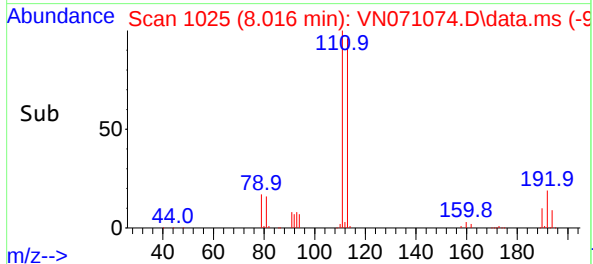
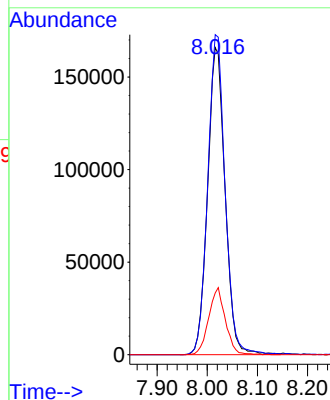
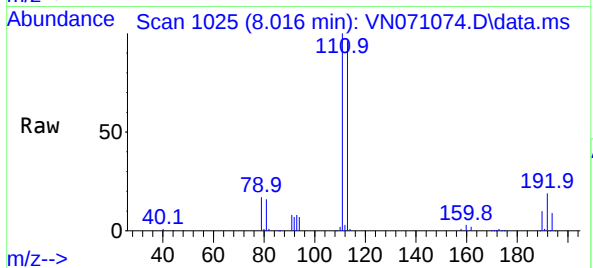




#35
Dibromofluoromethane
Concen: 48.711 ug/l
RT: 8.016 min Scan# 1025
Delta R.T. 0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

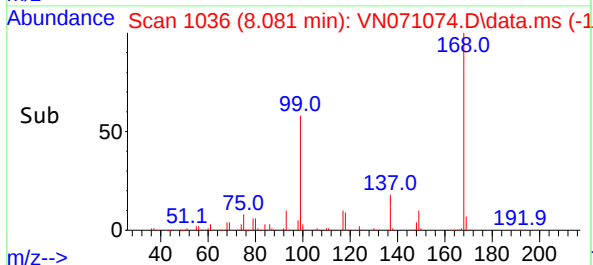
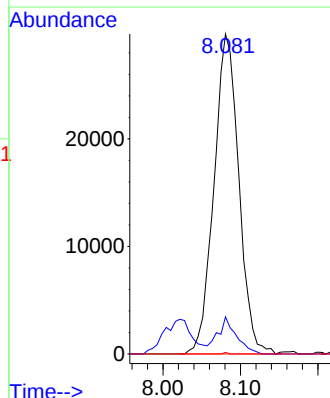
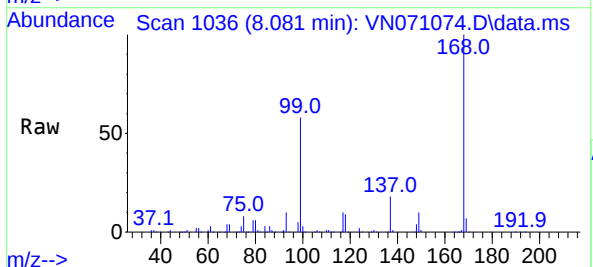
Instrument :
MSVOA_N
ClientSampleId :
TP-2

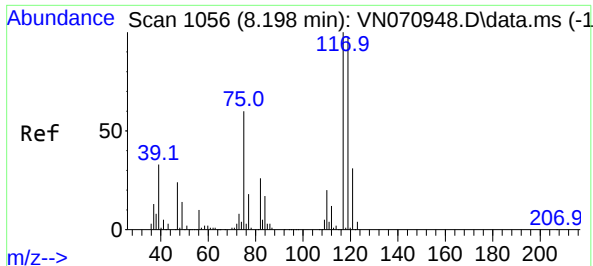
Tgt Ion:113 Resp: 402632
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 20.8 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.897 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 75 Resp: 66312
Ion Ratio Lower Upper
75 100
110 8.6 18.4 55.2#
77 0.1 24.4 36.6#

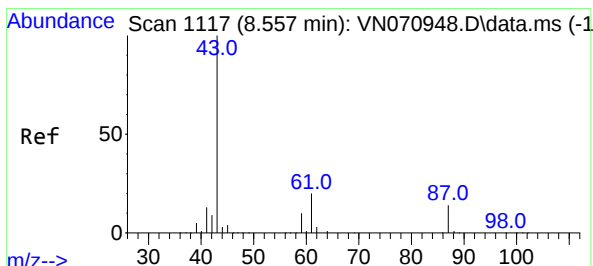
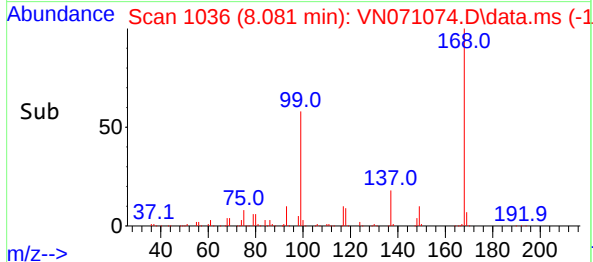
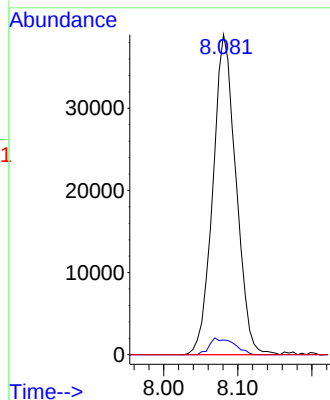
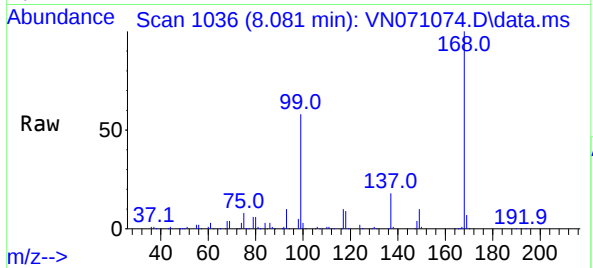




#38
Carbon Tetrachloride
Concen: 6.333 ug/l
RT: 8.081 min Scan# 11036
Delta R.T. -0.118 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

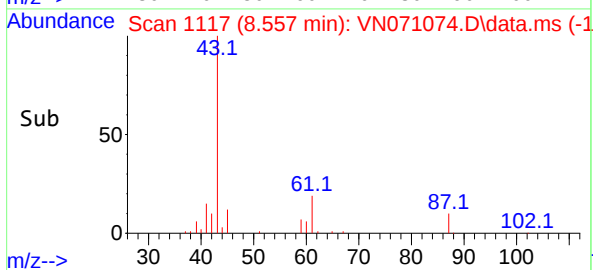
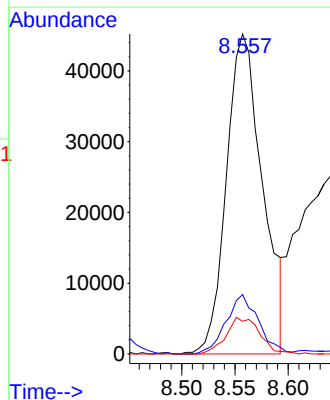
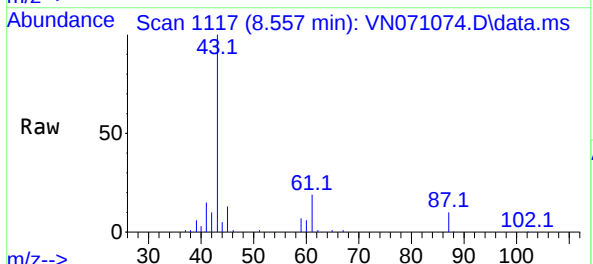
Instrument :
MSVOA_N
ClientSampleId :
TP-2

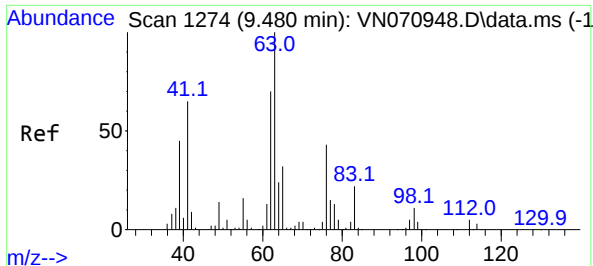
Tgt Ion:117 Resp: 84499
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 4.668 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 43 Resp: 106864
Ion Ratio Lower Upper
43 100
61 16.7 20.4 30.6#
87 10.6 11.2 16.8#





#45

1,2-Dichloropropane

Concen: 0.636 ug/l

RT: 9.622 min Scan# 1298

Delta R.T. 0.141 min

Lab File: VN071074.D

Acq: 25 Feb 2022 16:58

Instrument :

MSVOA_N

ClientSampleId :

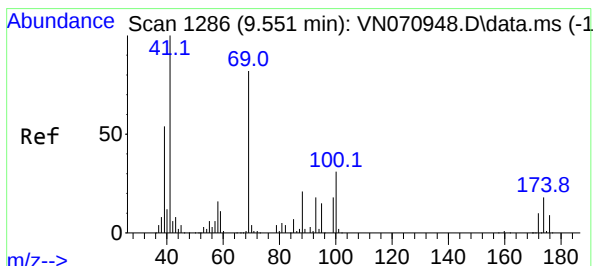
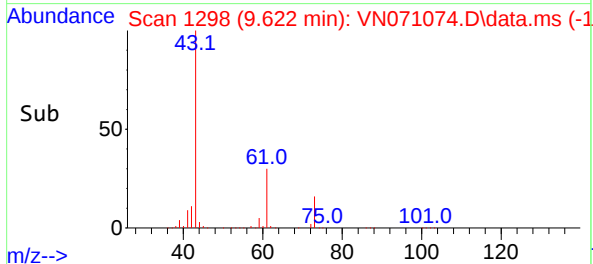
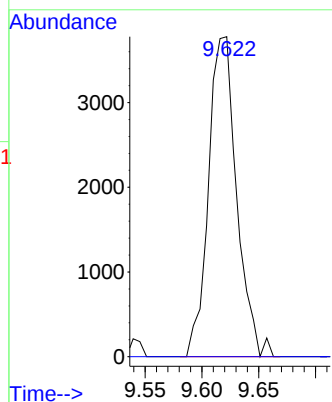
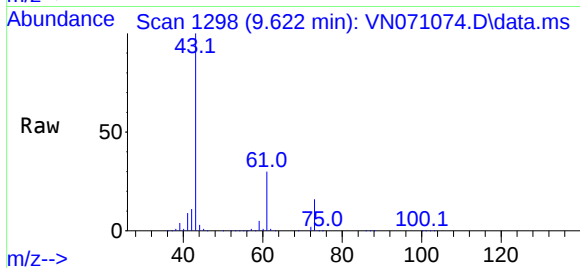
TP-2

Tgt Ion: 63 Resp: 6530

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 2.328 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.012 min

Lab File: VN071074.D

Acq: 25 Feb 2022 16:58

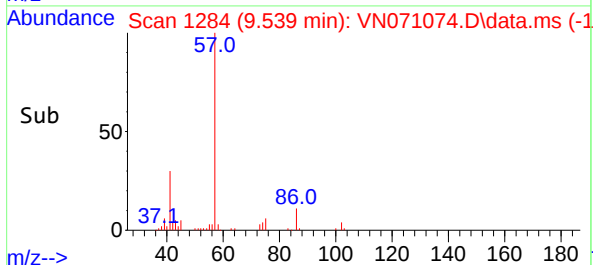
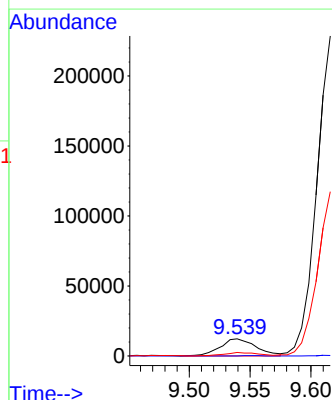
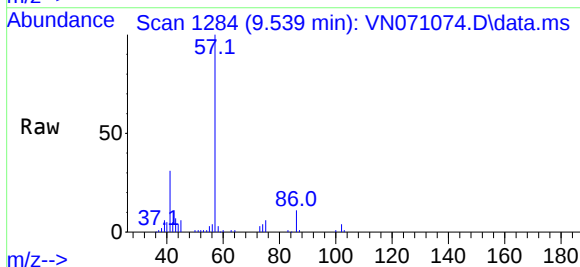
Tgt Ion: 41 Resp: 25226

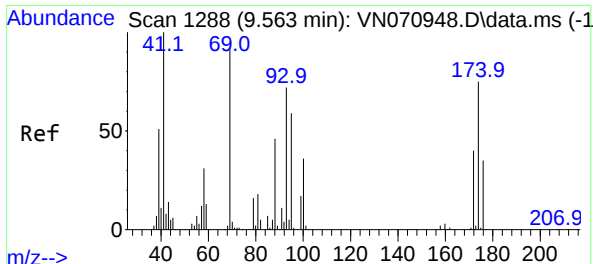
Ion Ratio Lower Upper

41 100

69 1.0 72.4 108.6#

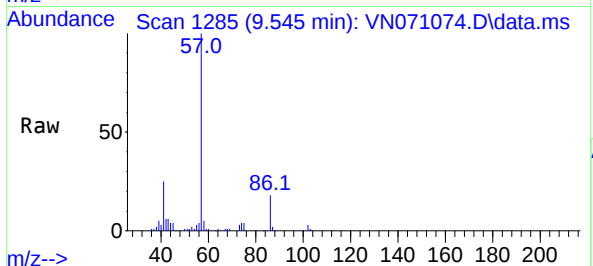
39 0.0 58.4 87.6#



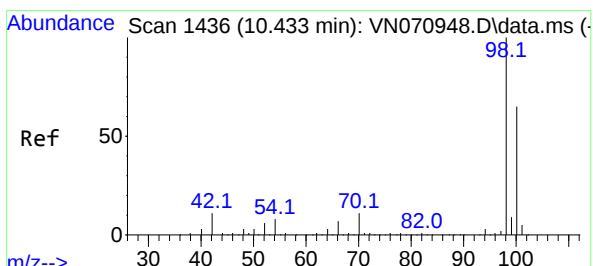
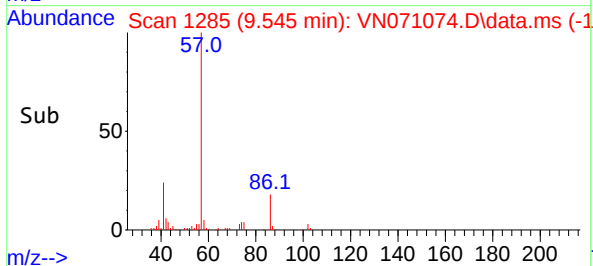
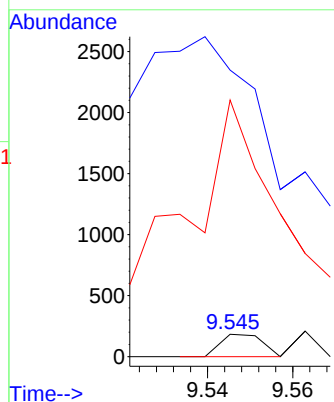


#49
1,4-Dioxane
Concen: 0.650 ug/l
RT: 9.545 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Instrument :
MSVOA_N
ClientSampleId :
TP-2

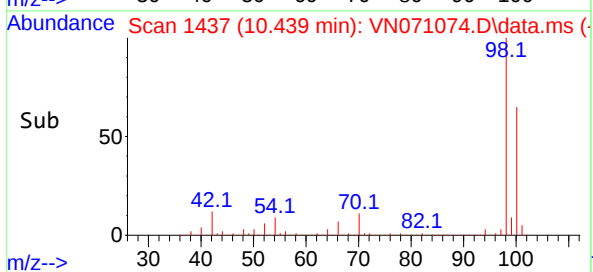
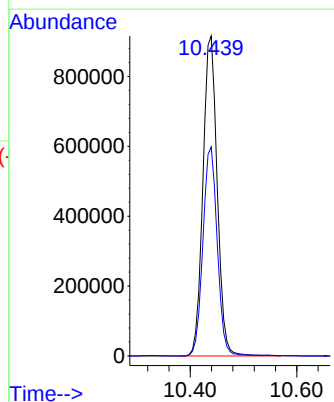
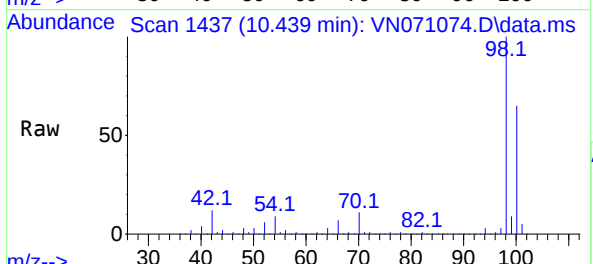


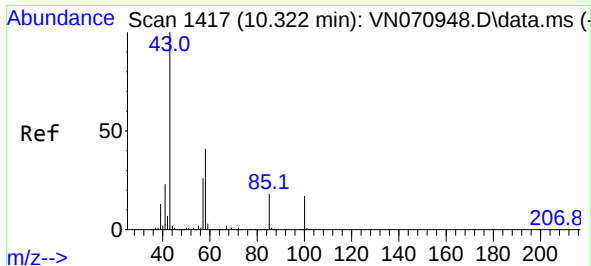
Tgt Ion: 88 Resp: 125
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 3320.0 50.6 75.8#



#50
Toluene-d8
Concen: 51.284 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 98 Resp: 1702326
Ion Ratio Lower Upper
98 100
100 65.6 50.4 75.6

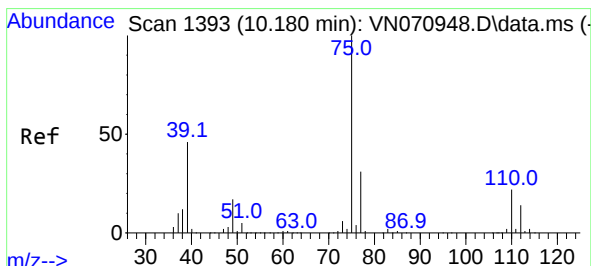
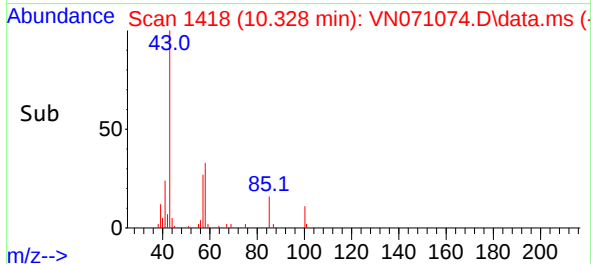
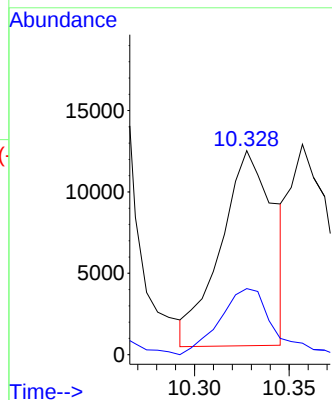
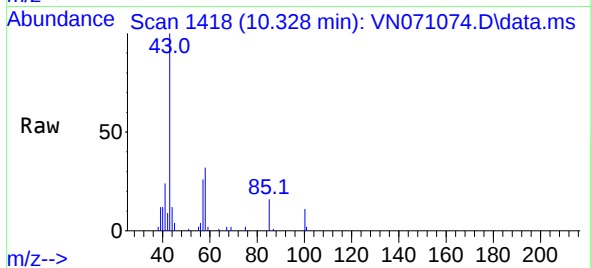




#51
4-Methyl-2-Pentanone
Concen: 1.691 ug/l
RT: 10.328 min Scan# 1417
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

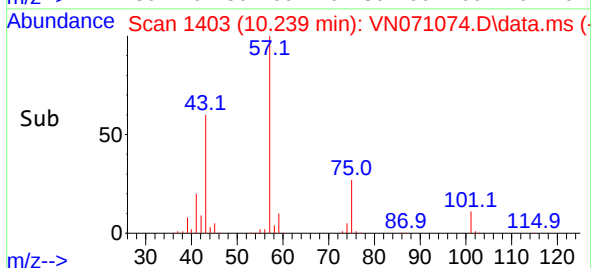
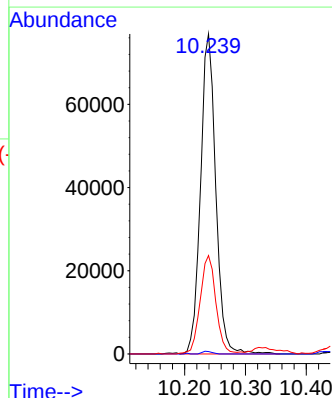
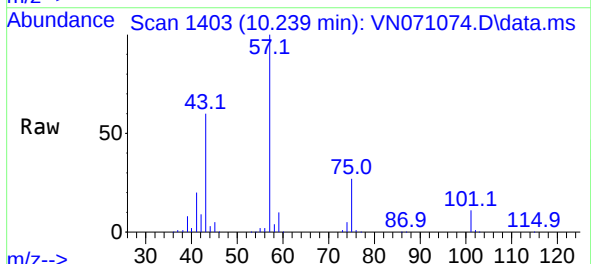
Instrument :
MSVOA_N
ClientSampleId :
TP-2

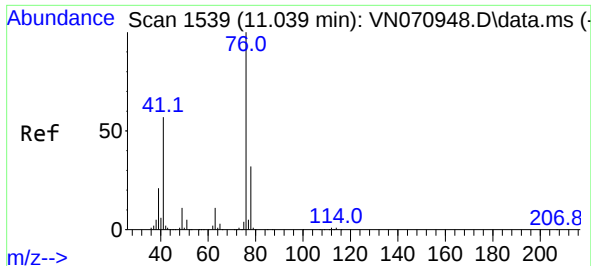
Tgt Ion: 43 Resp: 23548
Ion Ratio Lower Upper
43 100
58 33.8 30.4 45.6



#54
cis-1,3-Dichloropropene
Concen: 8.189 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.059 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 75 Resp: 133459
Ion Ratio Lower Upper
75 100
77 0.7 26.4 39.6#
39 30.5 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 4.657 ug/l

RT: 11.080 min Scan# 1546

Delta R.T. 0.041 min

Lab File: VN071074.D

Acq: 25 Feb 2022 16:58

Instrument :

MSVOA_N

ClientSampleId :

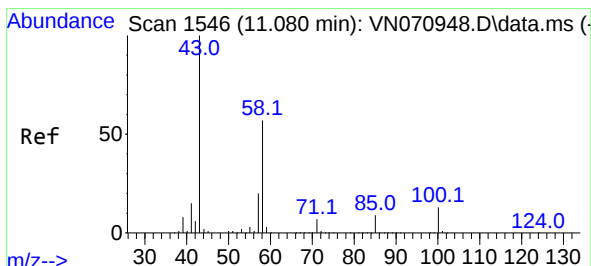
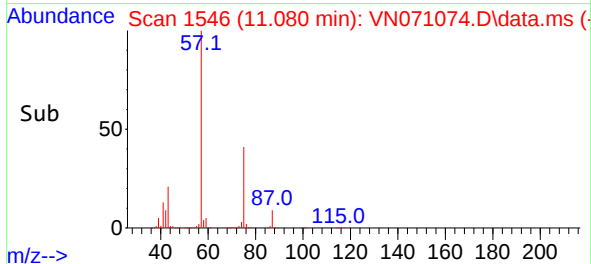
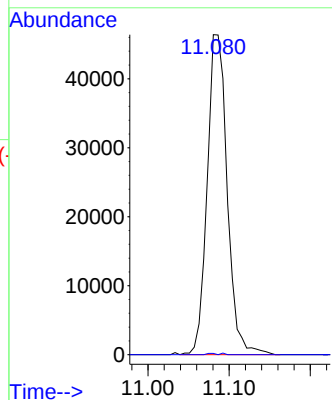
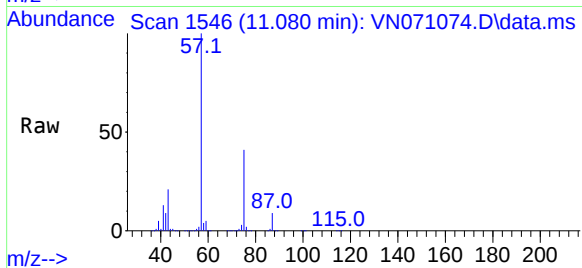
TP-2

Tgt Ion: 76 Resp: 79369

Ion Ratio Lower Upper

76 100

78 0.2 25.7 38.5#



#59

2-Hexanone

Concen: 127.573 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN071074.D

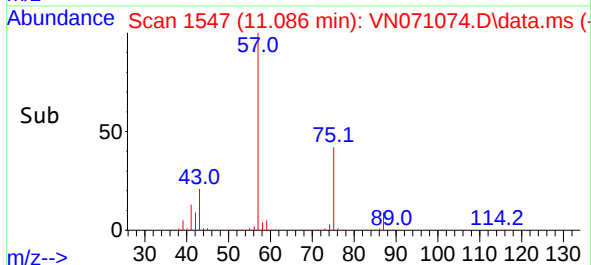
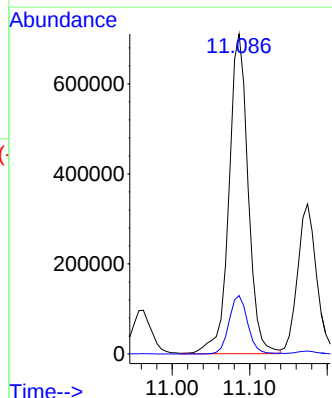
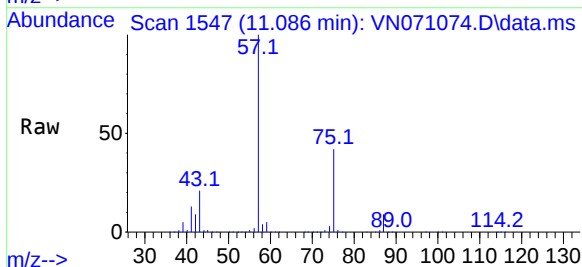
Acq: 25 Feb 2022 16:58

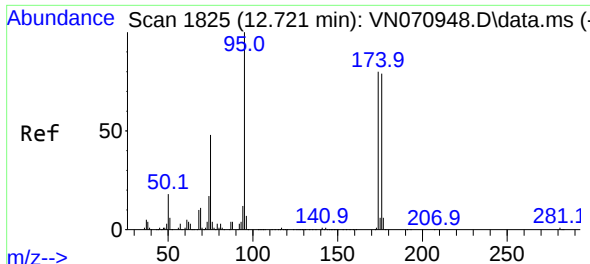
Tgt Ion: 43 Resp: 1222028

Ion Ratio Lower Upper

43 100

58 17.7 26.9 80.7#

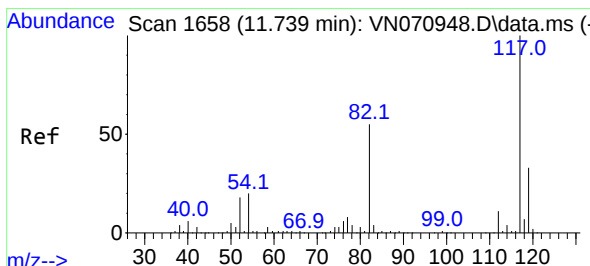
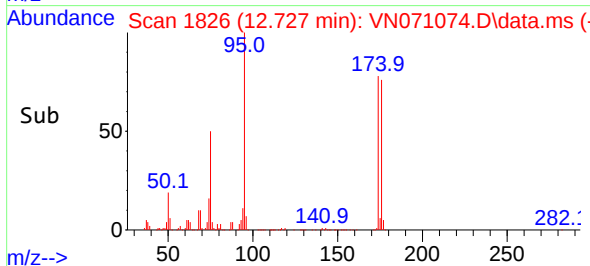
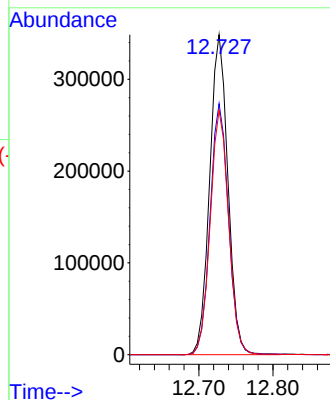
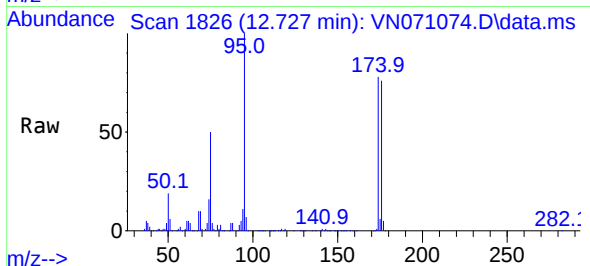




#62
4-Bromofluorobenzene
Concen: 50.189 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

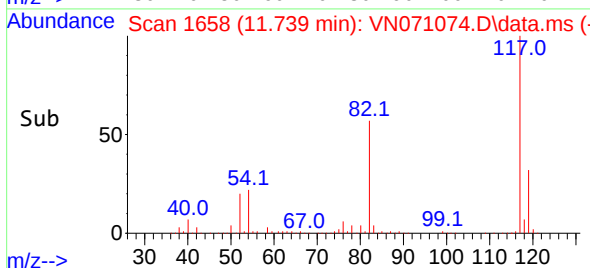
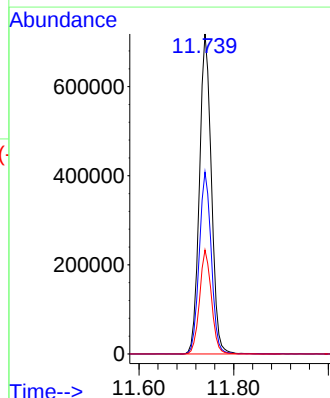
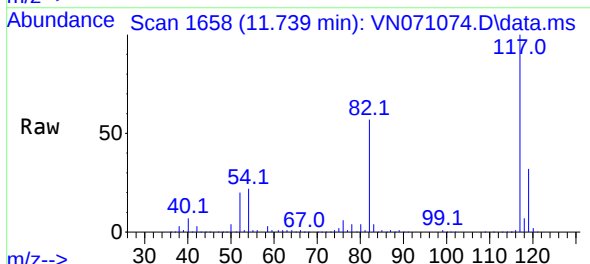
Instrument :
MSVOA_N
ClientSampleId :
TP-2

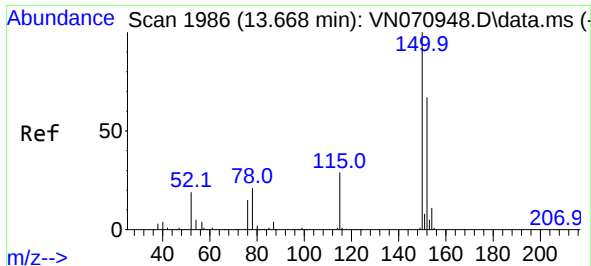
Tgt Ion: 95 Resp: 595497
Ion Ratio Lower Upper
95 100
174 79.4 0.0 187.2
176 76.8 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

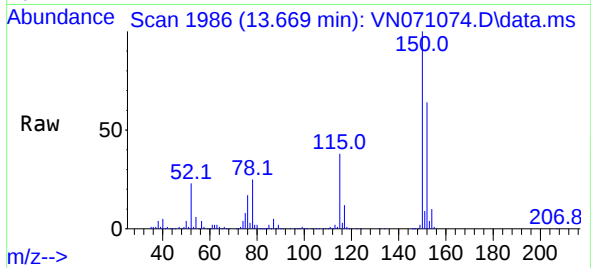
Tgt Ion: 117 Resp: 1254266
Ion Ratio Lower Upper
117 100
82 56.8 42.4 63.6
119 32.5 25.4 38.2



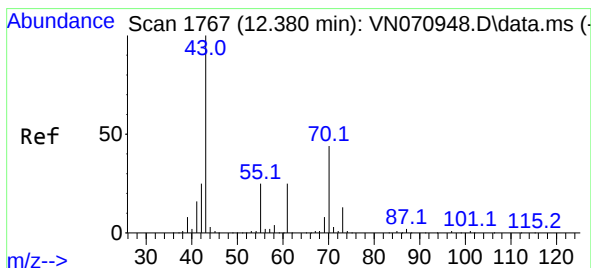
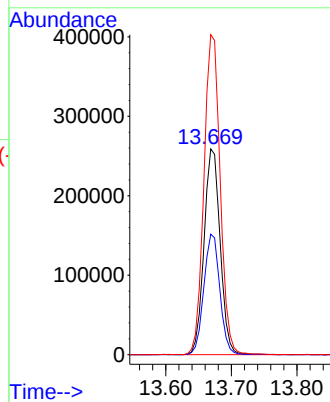
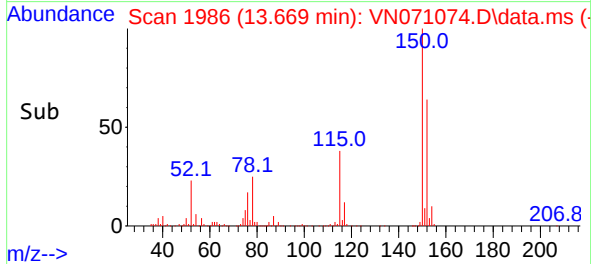


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

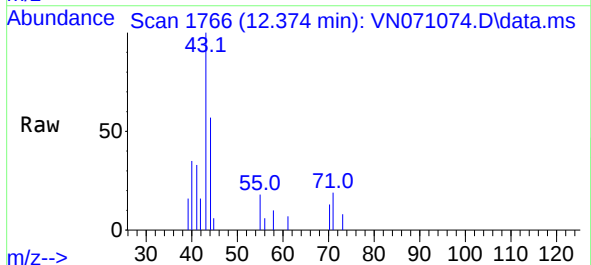
Instrument :
MSVOA_N
ClientSampleId :
TP-2



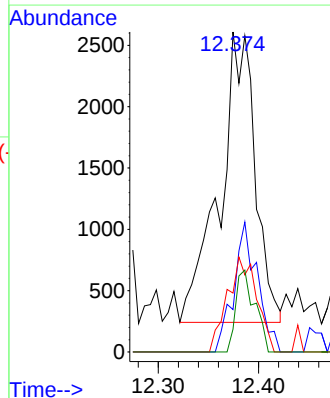
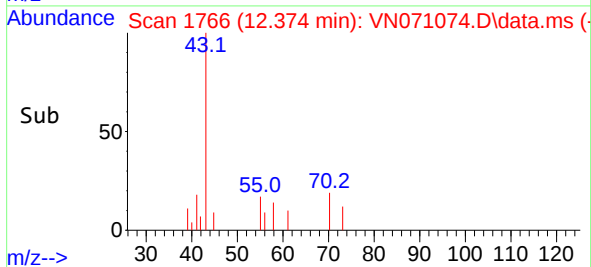
Tgt Ion:152 Resp: 443785
Ion Ratio Lower Upper
152 100
115 58.2 27.5 82.5
150 156.7 0.0 344.4

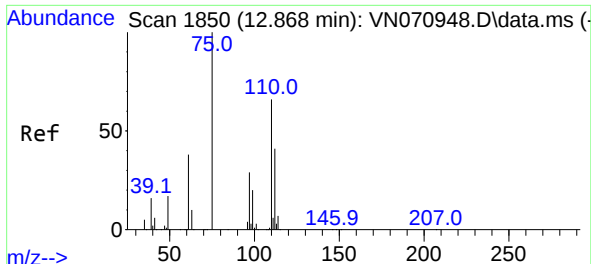


#74
N-ethyl acetate
Concen: 0.510 ug/l
RT: 12.374 min Scan# 1766
Delta R.T. -0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58



Tgt Ion: 43 Resp: 5827
Ion Ratio Lower Upper
43 100
70 29.7 33.4 50.0#
55 26.9 19.3 28.9
61 15.1 18.5 27.7#

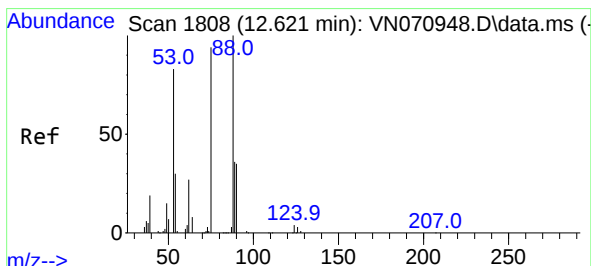
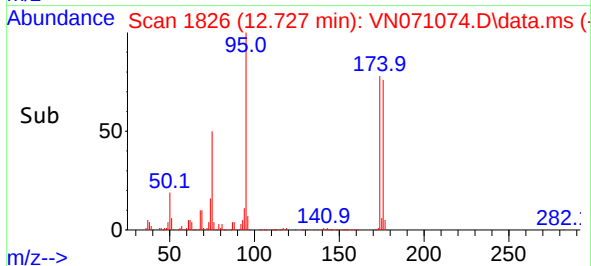
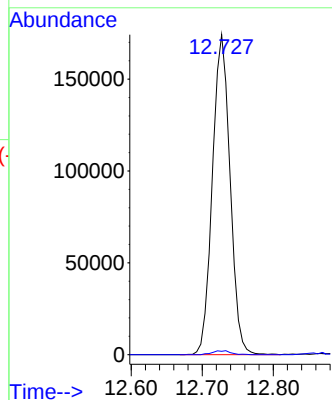
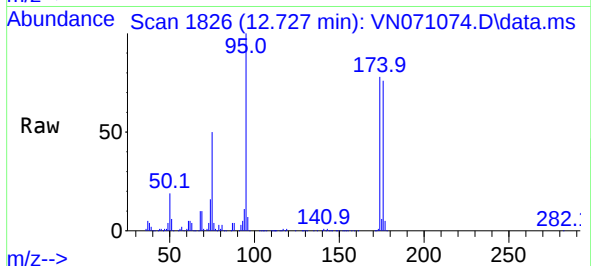




#76
1,2,3-Trichloropropane
Concen: 28.740 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

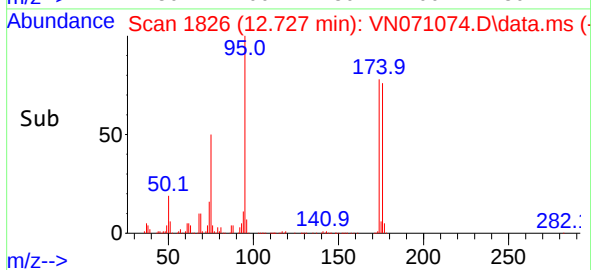
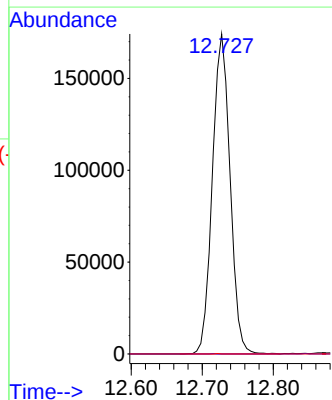
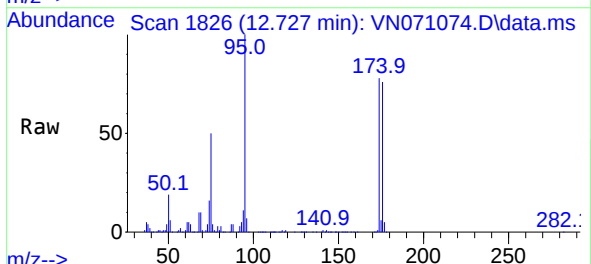
Instrument :
MSVOA_N
ClientSampleId :
TP-2

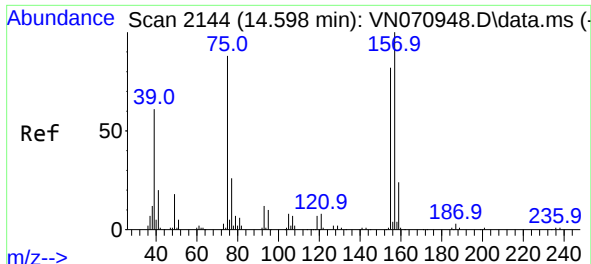
Tgt Ion: 75 Resp: 300301
Ion Ratio Lower Upper
75 100
77 1.3 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.130 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 75 Resp: 300301
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

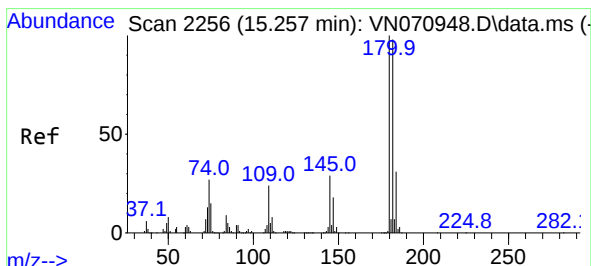
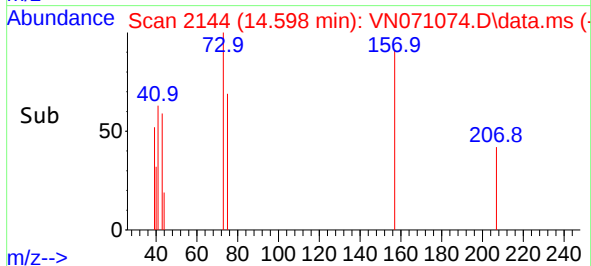
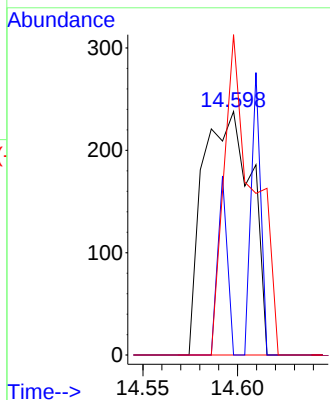
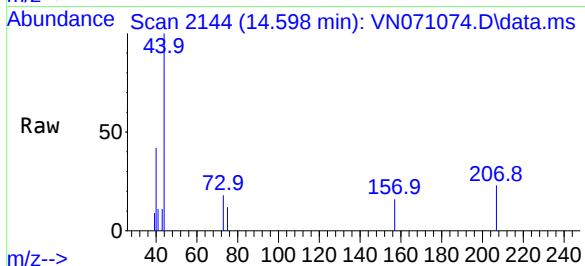




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.230 ug/l
RT: 14.598 min Scan# 2144
Delta R.T. 0.000 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

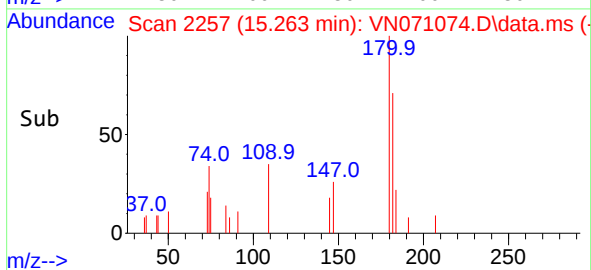
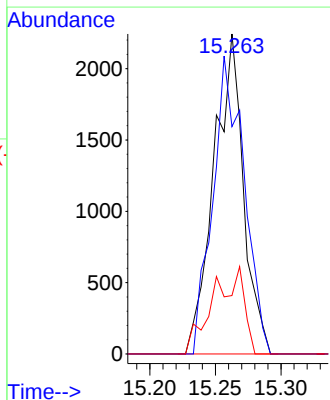
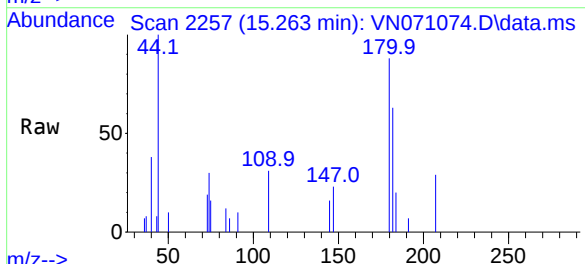
Instrument :
MSVOA_N
ClientSampleId :
TP-2

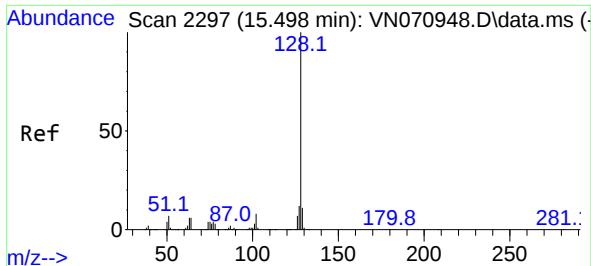
Tgt Ion: 75 Resp: 423
Ion Ratio Lower Upper
75 100
155 14.7 46.9 140.7#
157 80.4 60.6 181.7



#93
1,2,4-Trichlorobenzene
Concen: 2.412 ug/l
RT: 15.263 min Scan# 2257
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion: 180 Resp: 3514
Ion Ratio Lower Upper
180 100
182 98.6 48.3 144.9
145 28.6 14.5 43.5

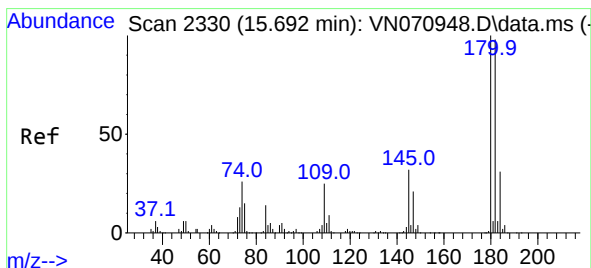
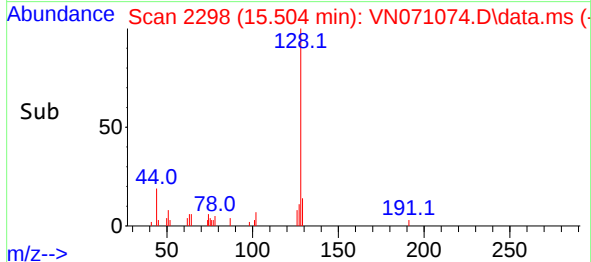
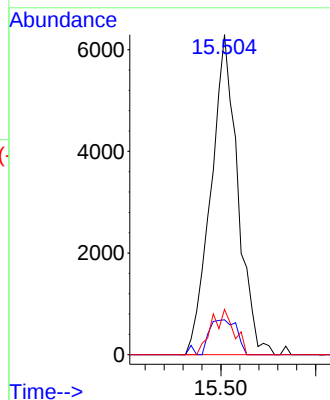
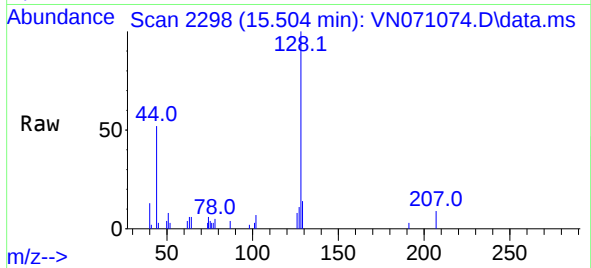




#95
Naphthalene
Concen: 5.550 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt Ion:	128	Resp:	12350
Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.5	15.7
129	11.9	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.014 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN071074.D
Acq: 25 Feb 2022 16:58

Tgt Ion:	180	Resp:	3951
Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.4	142.2
145	34.4	15.0	45.1

