

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120721\
 Data File : VN069837.D
 Acq On : 8 Dec 2021 2:00
 Operator : JC/MD
 Sample : M4957-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D1-20211206

Quant Time: Dec 08 06:37:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

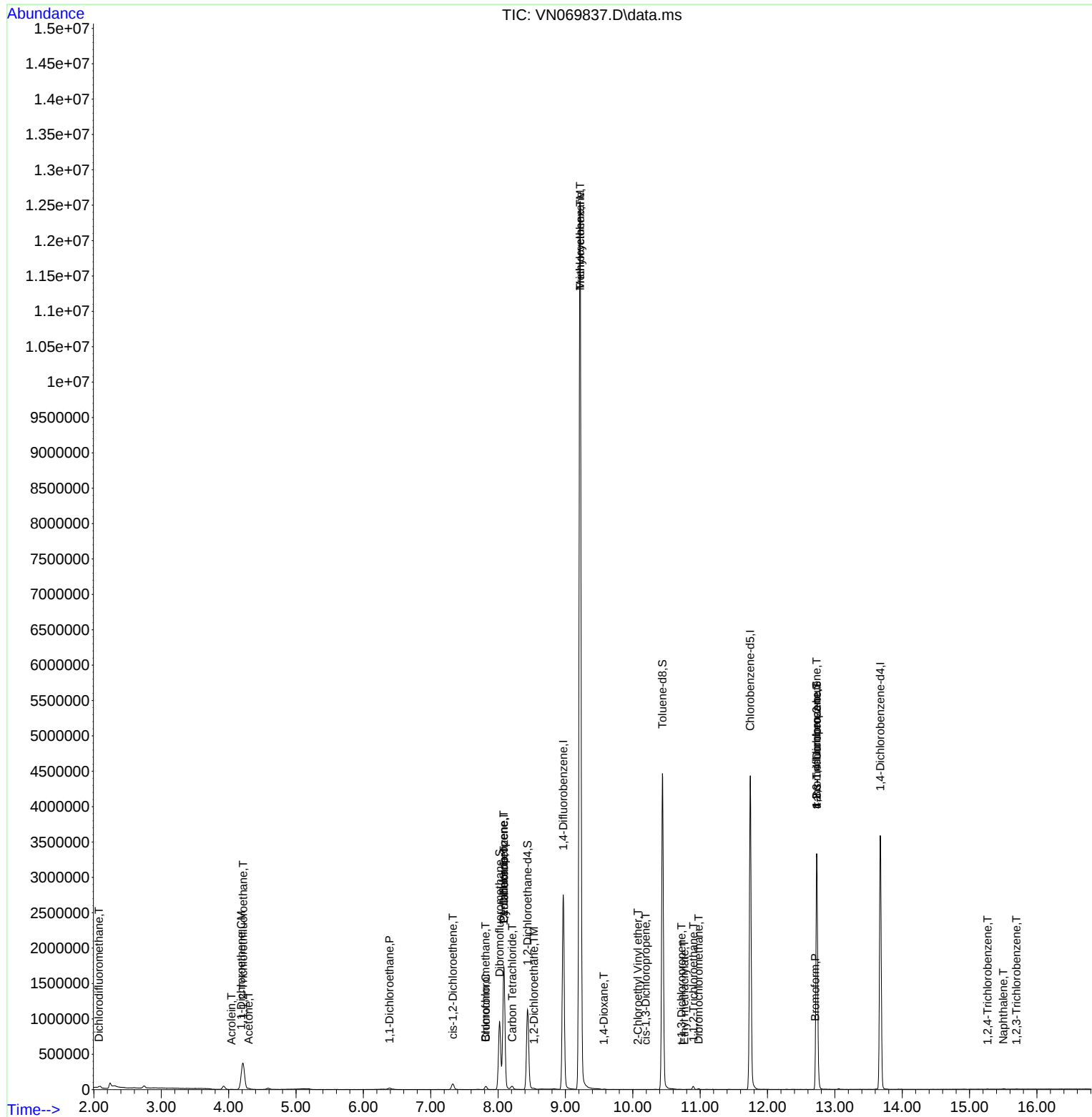
Internal Standards						
1) Pentafluorobenzene	8.088	168	1299595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2310625	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2474868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	952727	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1002553	49.96	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.92%		
35) Dibromofluoromethane	8.021	113	690350	47.70	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.40%		
50) Toluene-d8	10.440	98	3009865	51.79	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.58%		
62) 4-Bromofluorobenzene	12.731	95	1165957	55.38	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	110.76%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	12769	0.84	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.215	101	232511	18.10	ug/l	97
12) 1,1-Dichloroethene	4.186	96	36309	2.93	ug/l	90
13) Acrolein	4.041	56	1106	0.34	ug/l #	76
16) Acetone	4.296	43	16971	1.41	ug/l	97
24) 1,1-Dichloroethane	6.385	63	22723	0.80	ug/l #	94
27) cis-1,2-Dichloroethene	7.329	96	46875	2.89	ug/l	96
28) Bromochloromethane	7.812	49	3836	0.26	ug/l #	9
30) Chloroform	7.817	83	40896	1.43	ug/l	94
31) Cyclohexane	8.088	56	33208	1.19	ug/l #	34
36) 1,1-Dichloropropene	8.083	75	109911	5.00	ug/l #	49
38) Carbon Tetrachloride	8.209	117	29595	1.37	ug/l	95
39) Methylcyclohexane	9.220	83	60134	2.30	ug/l #	1
42) 1,2-Dichloroethane	8.533	62	6820	0.25	ug/l	89
44) Trichloroethene	9.217	130	4447966	277.18	ug/l	91
49) 1,4-Dioxane	9.569	88	3486	8.59	ug/l #	80
53) t-1,3-Dichloropropene	10.722	75	143	2.80	ug/l #	63
54) cis-1,3-Dichloropropene	10.194	75	116	2.00	ug/l #	58
55) 1,1,2-Trichloroethane	10.899	97	13212	0.80	ug/l	95
56) Ethyl methacrylate	10.768	69	61	2.28	ug/l #	24
58) 2-Chloroethyl Vinyl ether	10.076	63	125	18.40	ug/l #	45
60) Dibromochloromethane	10.979	129	1771	2.47	ug/l #	11
71) Bromoform	12.707	173	225	2.74	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	654706	23.96	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	654706	76.12	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	1229	2.95	ug/l #	93
95) Naphthalene	15.501	128	3216	4.05	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.697	180	126	2.44	ug/l #	1

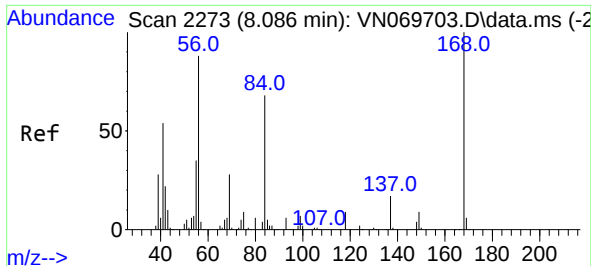
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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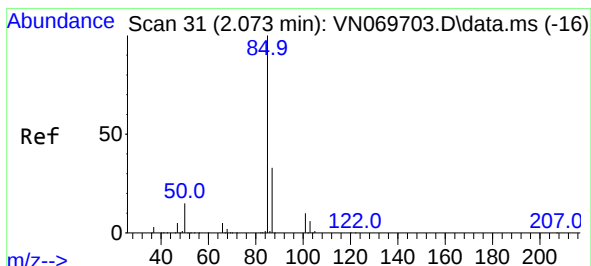
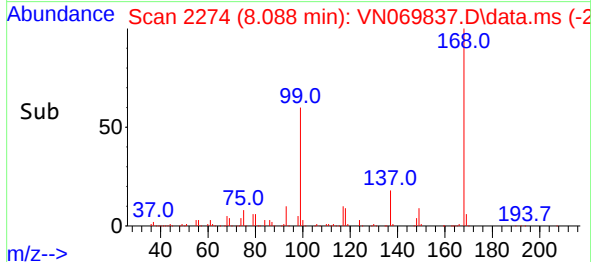
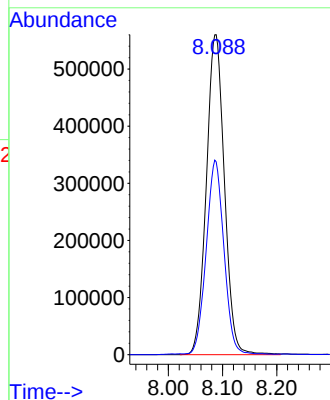
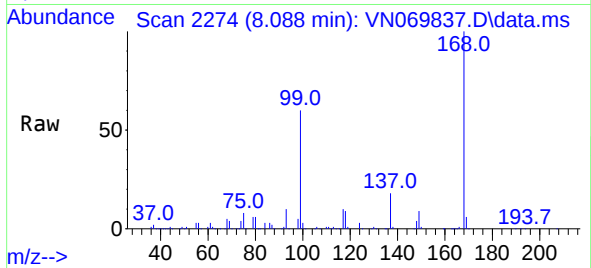




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

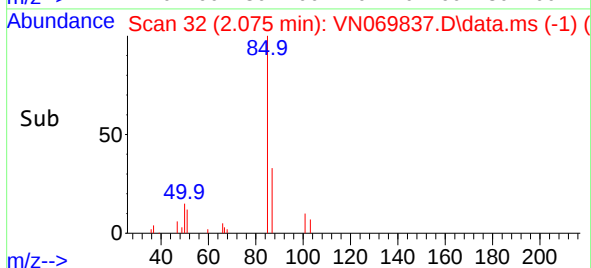
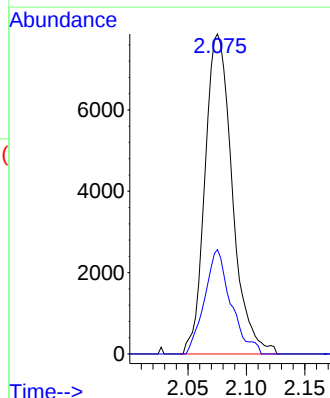
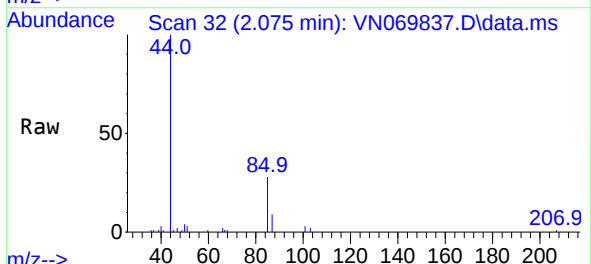
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

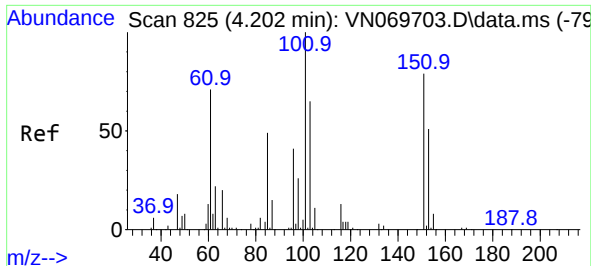
Tgt Ion:168 Resp: 1299595
Ion Ratio Lower Upper
168 100
99 60.1 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.84 ug/l
RT: 2.075 min Scan# 32
Delta R.T. 0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 85 Resp: 12769
Ion Ratio Lower Upper
85 100
87 32.6 16.3 48.9

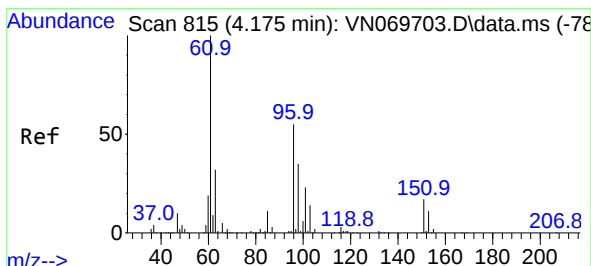
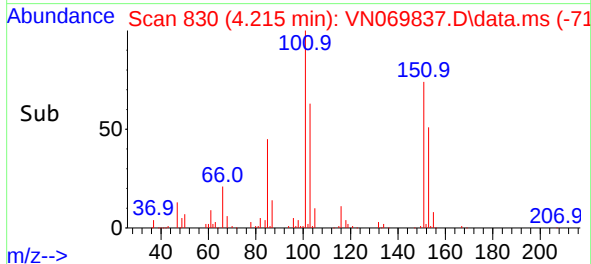
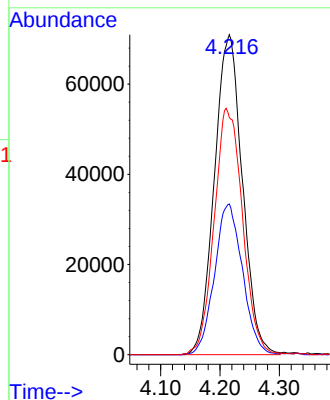
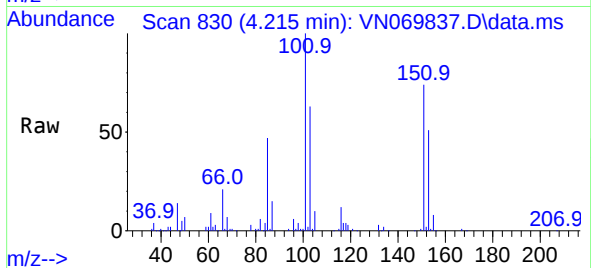




#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.10 ug/l
RT: 4.215 min Scan# 811
Delta R.T. 0.013 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

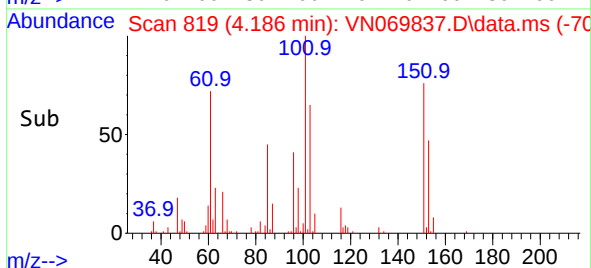
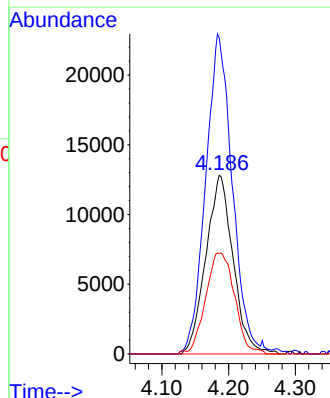
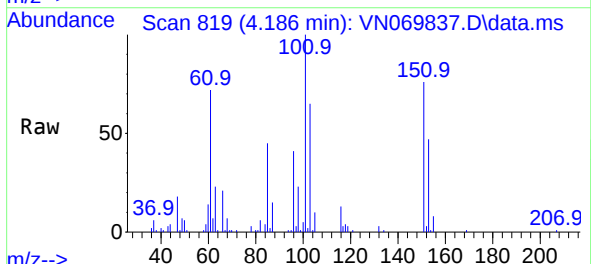
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

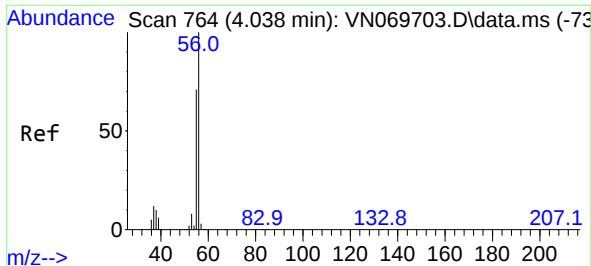
Tgt Ion:101 Resp: 232511
Ion Ratio Lower Upper
101 100
85 47.1 37.2 55.8
151 78.1 65.9 98.9



#12
1,1-Dichloroethene
Concen: 2.93 ug/l
RT: 4.186 min Scan# 819
Delta R.T. 0.011 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 96 Resp: 36309
Ion Ratio Lower Upper
96 100
61 175.5 131.0 196.6
98 56.3 52.4 78.6

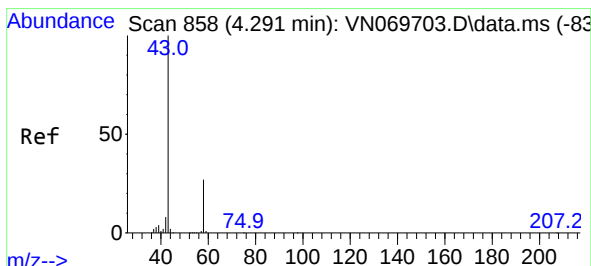
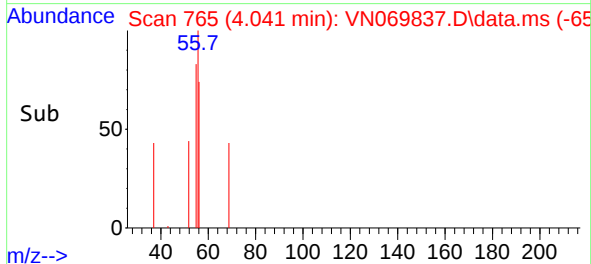
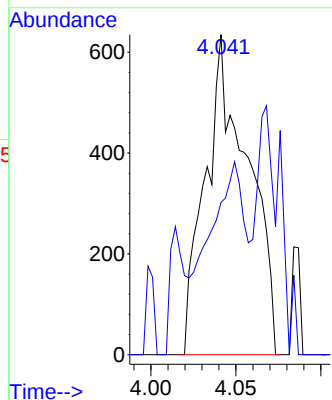
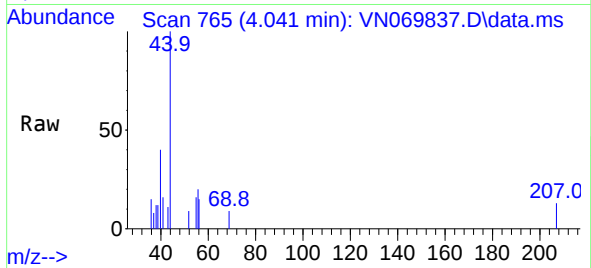




#13
Acrolein
Concen: 0.34 ug/l
RT: 4.041 min Scan# 765
Delta R.T. 0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

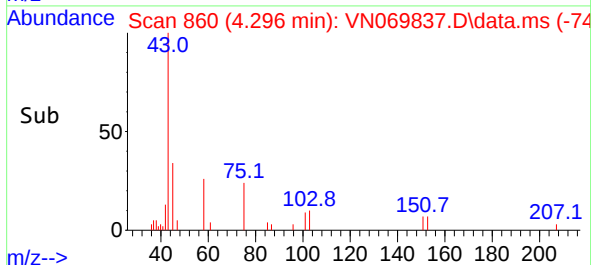
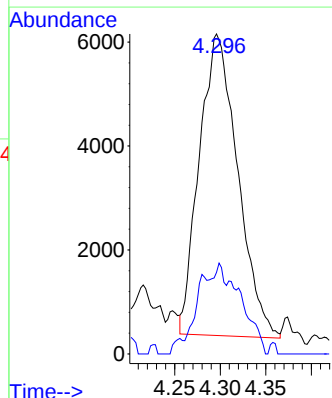
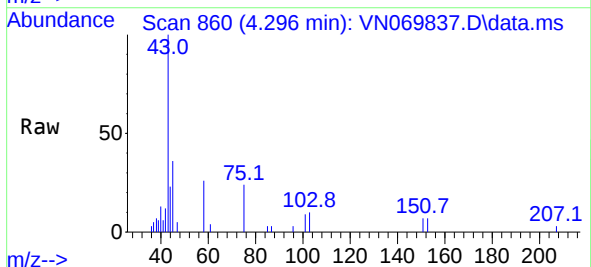
Instrument :
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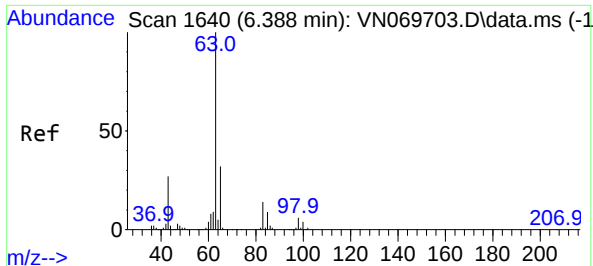
Tgt Ion: 56 Resp: 1106
Ion Ratio Lower Upper
56 100
55 50.6 56.6 85.0#



#16
Acetone
Concen: 1.41 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 43 Resp: 16971
Ion Ratio Lower Upper
43 100
58 27.2 23.1 34.7





#24

1,1-Dichloroethane

Concen: 0.80 ug/l

RT: 6.385 min Scan# 1

Delta R.T. -0.003 min

Lab File: VN069837.D

Acq: 8 Dec 2021 2:00

Instrument :

MSVOA_N

ClientSampleId :

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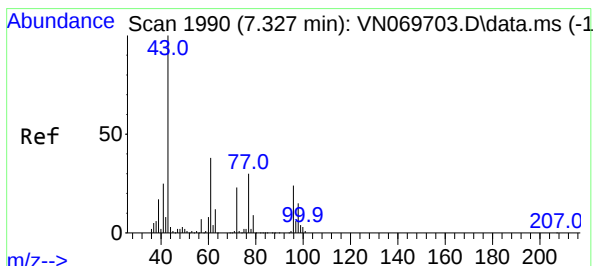
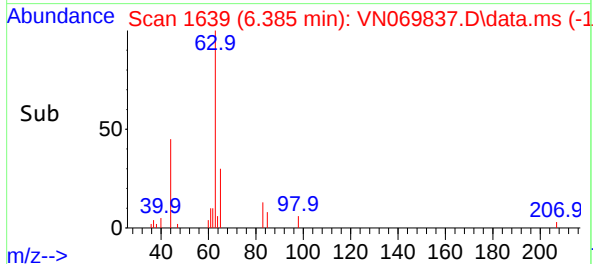
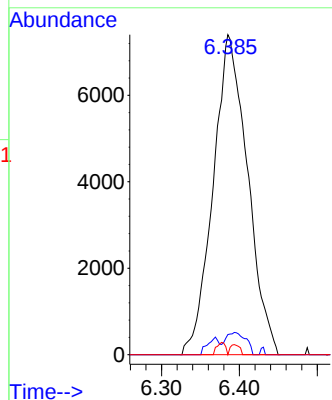
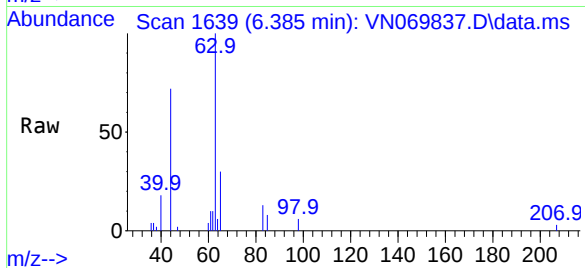
Tgt Ion: 63 Resp: 22723

Ion Ratio Lower Upper

63 100

98 6.3 3.3 9.9

100 0.0 2.1 6.5#



#27

cis-1,2-Dichloroethene

Concen: 2.89 ug/l

RT: 7.329 min Scan# 1991

Delta R.T. 0.003 min

Lab File: VN069837.D

Acq: 8 Dec 2021 2:00

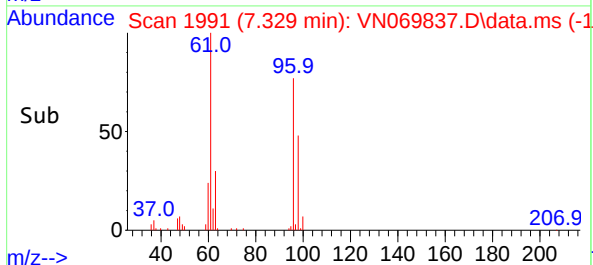
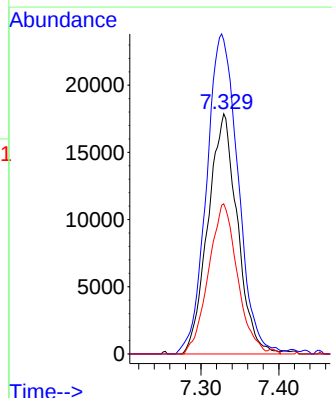
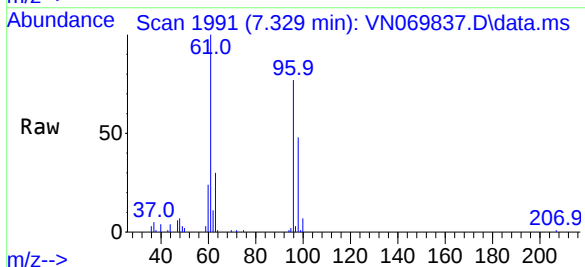
Tgt Ion: 96 Resp: 46875

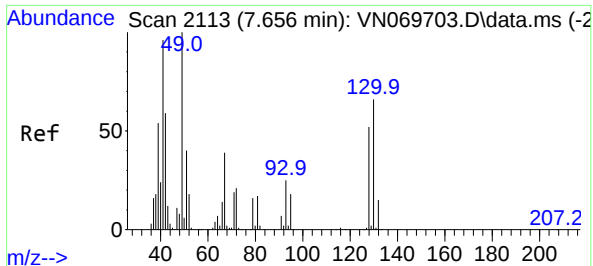
Ion Ratio Lower Upper

96 100

61 142.7 0.0 275.0

98 61.3 0.0 129.6

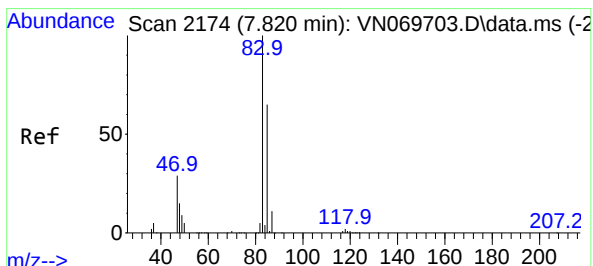
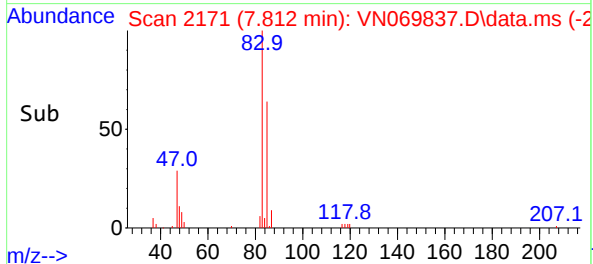
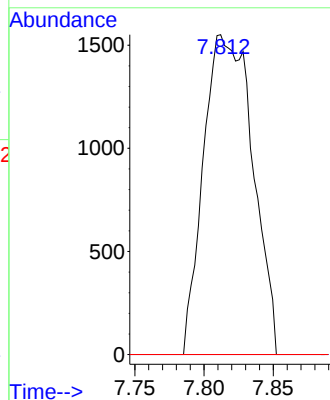
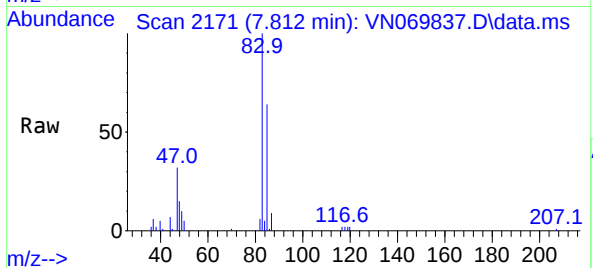




#28
Bromochloromethane
Concen: 0.26 ug/l
RT: 7.812 min Scan# 2113
Delta R.T. 0.156 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

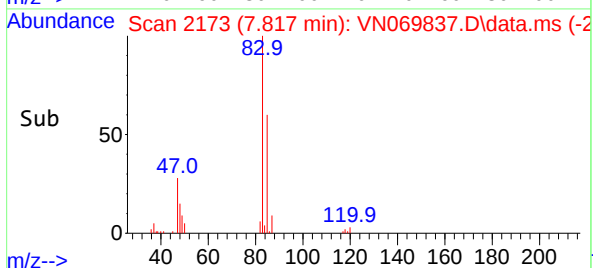
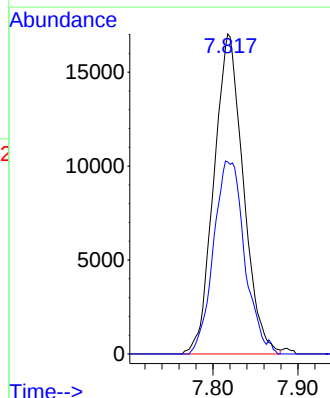
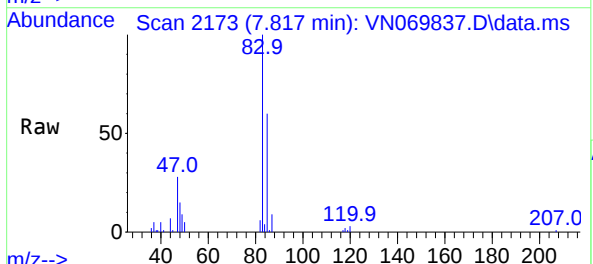
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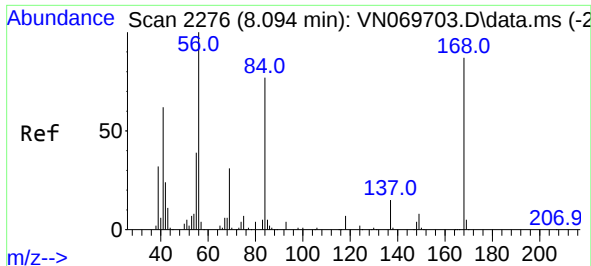
Tgt Ion: 49 Resp: 3836
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 67.8 101.8#



#30
Chloroform
Concen: 1.43 ug/l
RT: 7.817 min Scan# 2173
Delta R.T. -0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

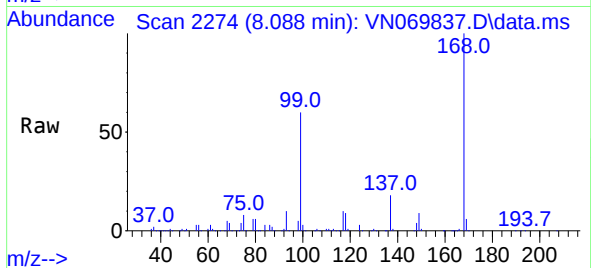
Tgt Ion: 83 Resp: 40896
Ion Ratio Lower Upper
83 100
85 60.0 51.9 77.9



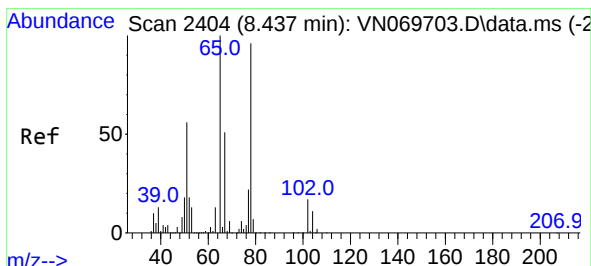
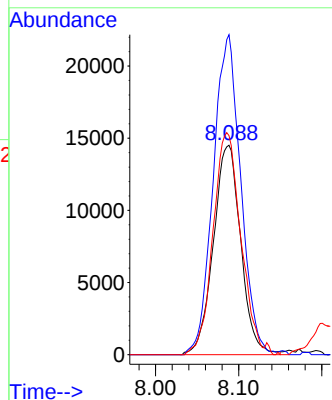
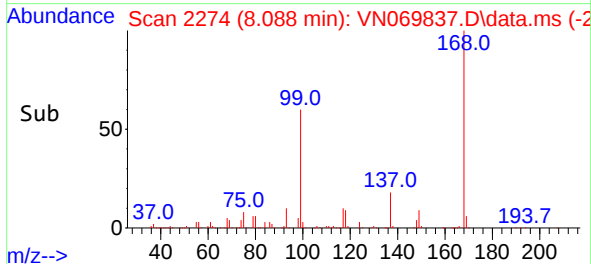


#31
Cyclohexane
Concen: 1.19 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Instrument :
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ClientSampleId :
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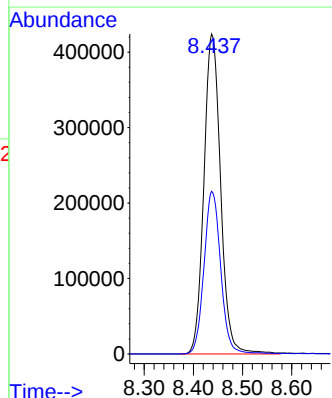
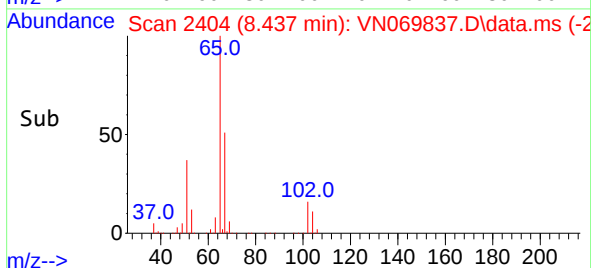
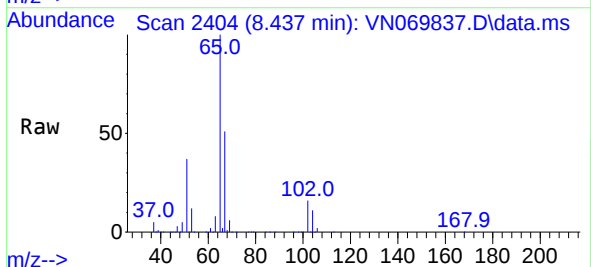


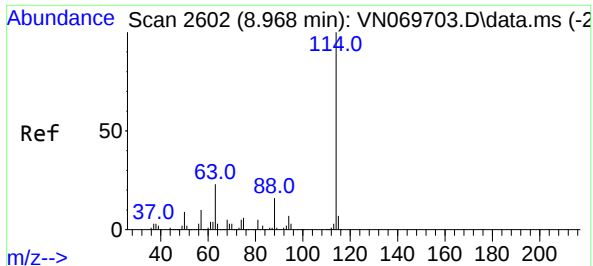
Tgt Ion: 56 Resp: 33208
Ion Ratio Lower Upper
56 100
69 152.7 27.1 40.7#
84 104.5 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 49.96 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. 0.000 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

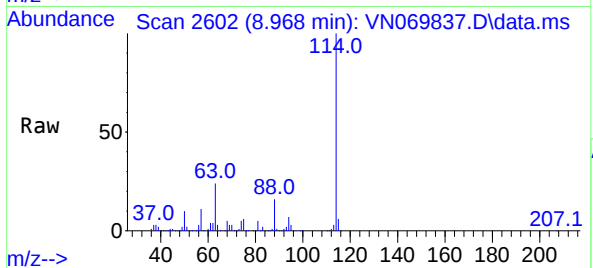
Tgt Ion: 65 Resp: 1002553
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.0



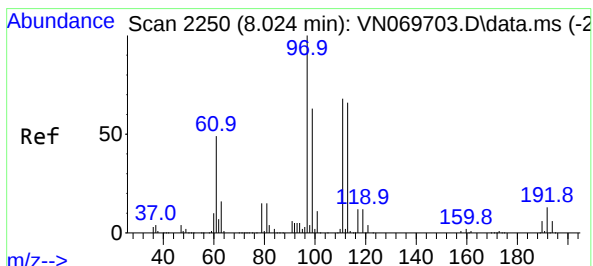
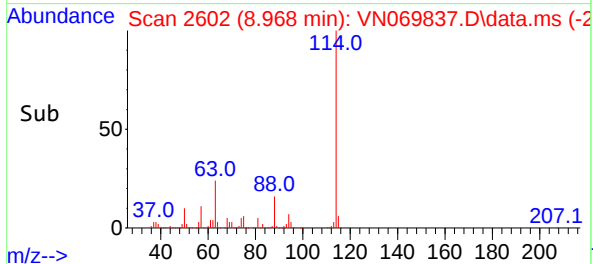
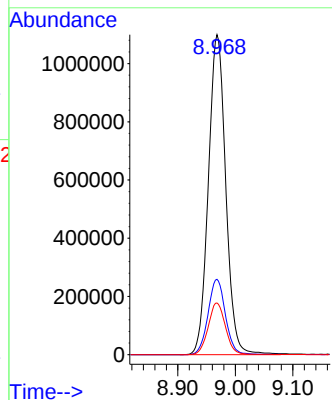


#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.968 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Instrument :
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ClientSampleId :
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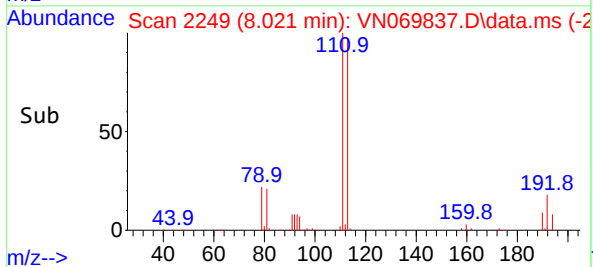
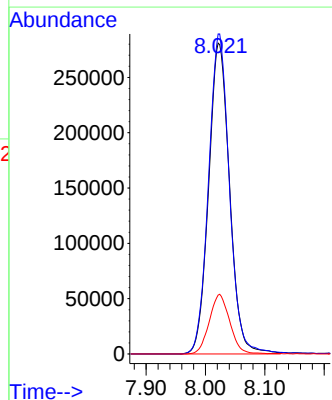
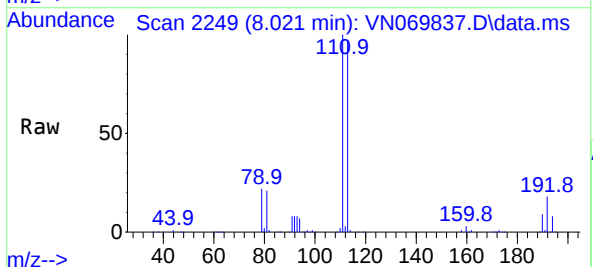


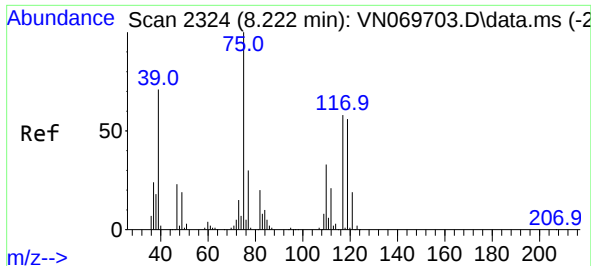
Tgt Ion:114 Resp: 2310625
Ion Ratio Lower Upper
114 100
63 23.6 0.0 37.8
88 16.1 0.0 27.4



#35
Dibromofluoromethane
Concen: 47.70 ug/l
RT: 8.021 min Scan# 2249
Delta R.T. -0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion:113 Resp: 690350
Ion Ratio Lower Upper
113 100
111 102.5 82.2 123.2
192 18.7 16.9 25.3

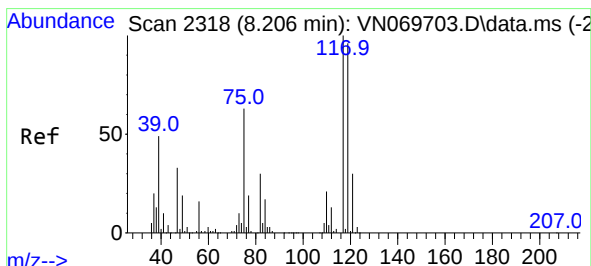
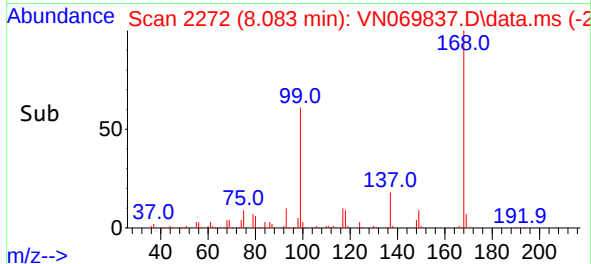
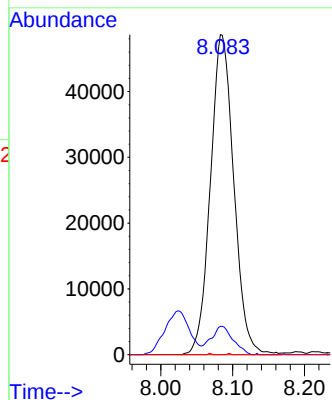
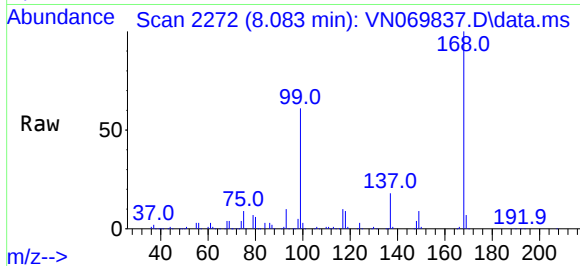




#36
1,1-Dichloropropene
Concen: 5.00 ug/l
RT: 8.083 min Scan# 21
Delta R.T. -0.139 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

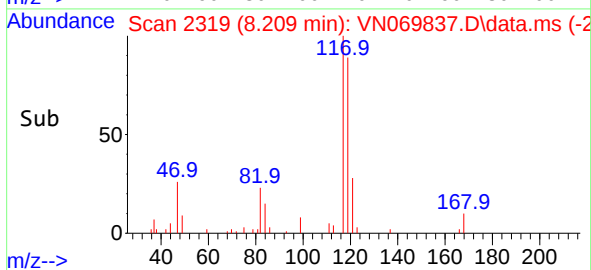
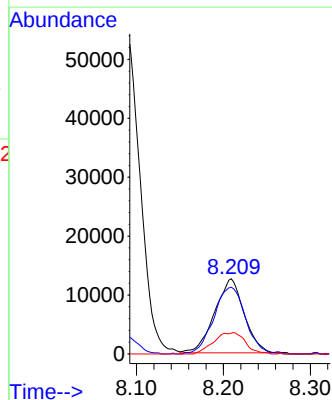
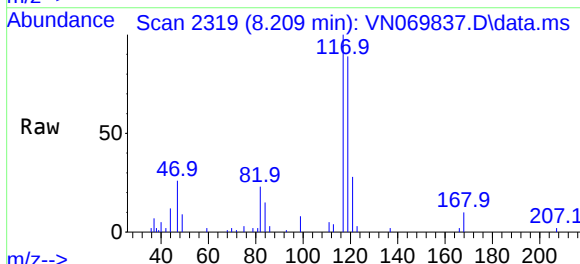
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

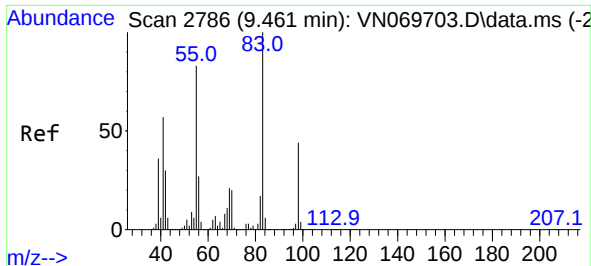
Tgt Ion: 75 Resp: 109911
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.1 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 1.37 ug/l
RT: 8.209 min Scan# 2319
Delta R.T. 0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

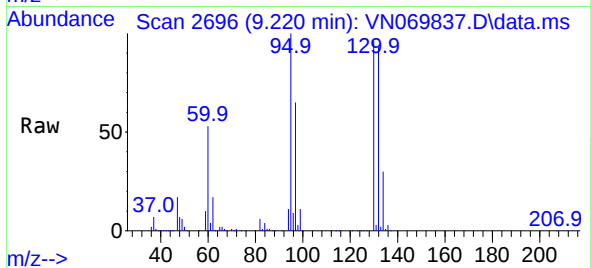
Tgt Ion: 117 Resp: 29595
Ion Ratio Lower Upper
117 100
119 90.0 76.1 114.1
121 28.1 24.2 36.2



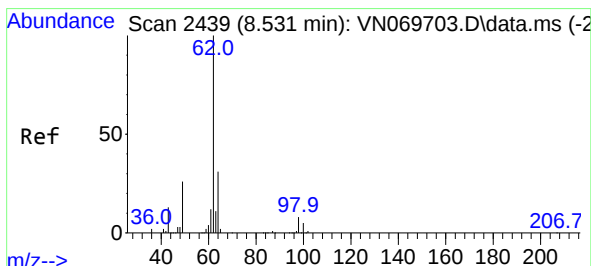
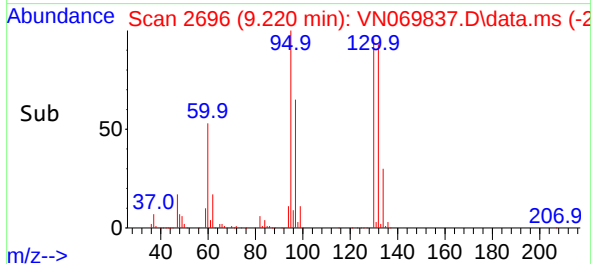
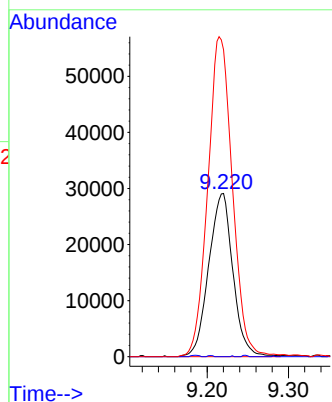


#39
Methylcyclohexane
Concen: 2.30 ug/l
RT: 9.220 min Scan# 20
Delta R.T. -0.241 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

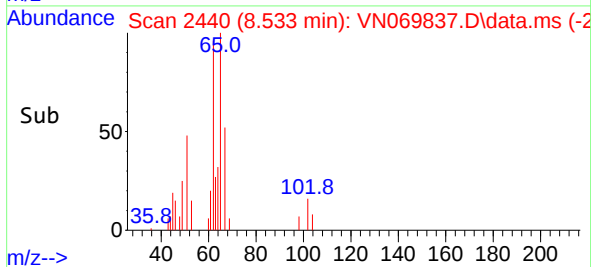
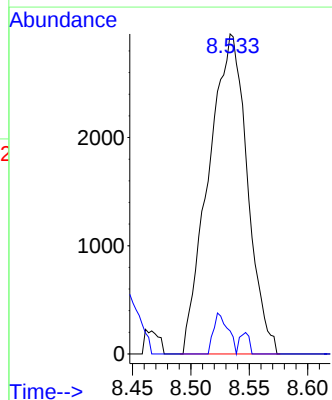
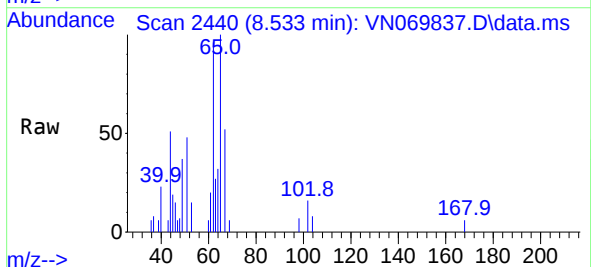


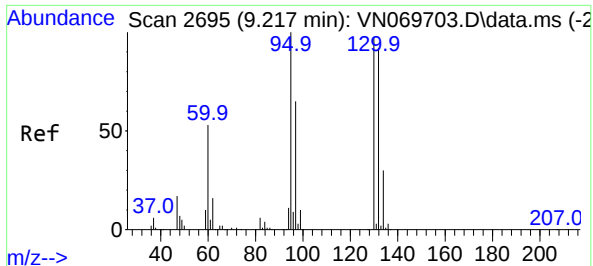
Tgt Ion: 83 Resp: 60134
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 187.3 38.4 57.6#



#42
1,2-Dichloroethane
Concen: 0.25 ug/l
RT: 8.533 min Scan# 2440
Delta R.T. 0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 62 Resp: 6820
Ion Ratio Lower Upper
62 100
98 4.8 0.0 17.6

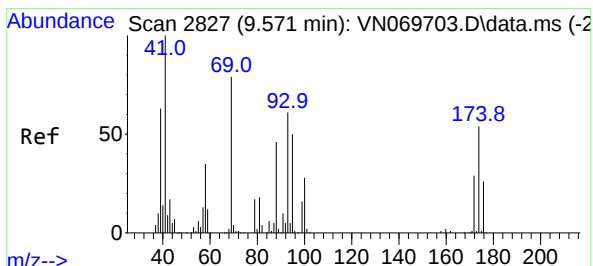
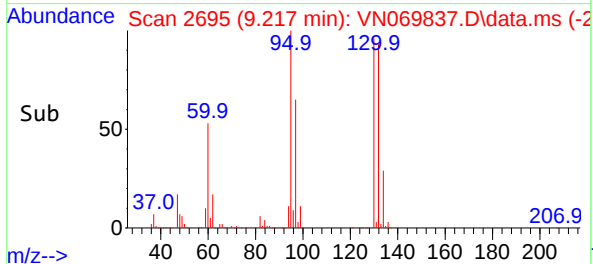
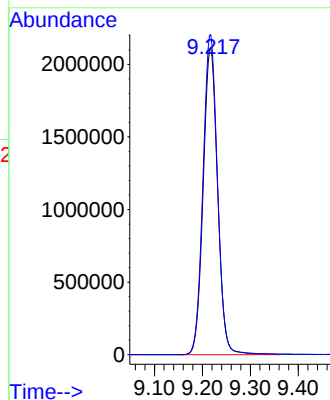
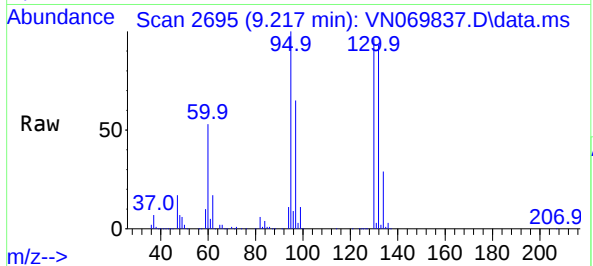




#44
Trichloroethene
Concen: 277.18 ug/l
RT: 9.217 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

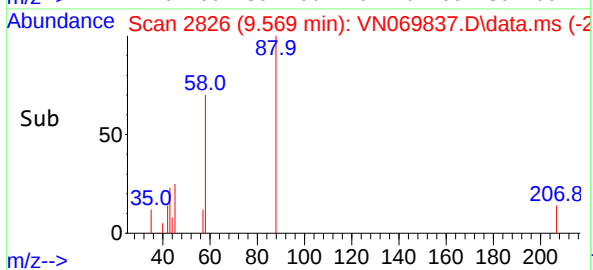
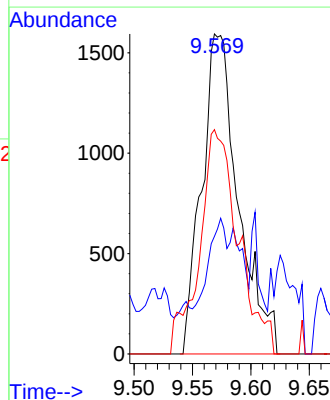
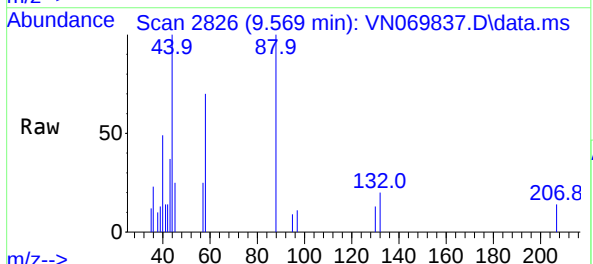
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

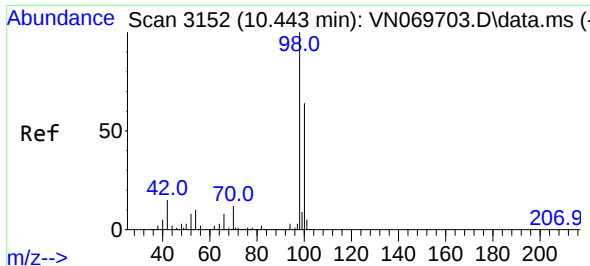
Tgt Ion:130 Resp: 4447966
Ion Ratio Lower Upper
130 100
95 104.4 0.0 191.2



#49
1,4-Dioxane
Concen: 8.59 ug/l
RT: 9.569 min Scan# 2826
Delta R.T. -0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 88 Resp: 3486
Ion Ratio Lower Upper
88 100
43 11.7 23.4 35.2#
58 74.1 50.6 75.8

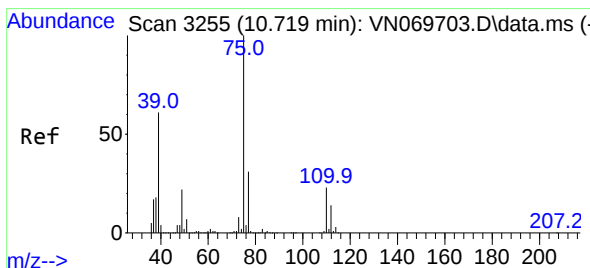
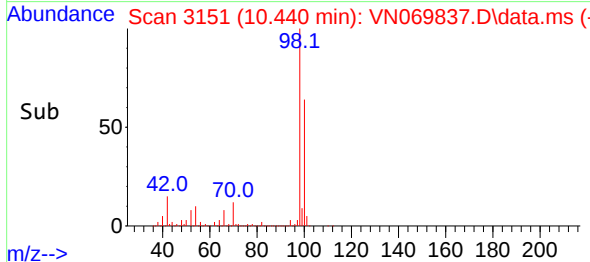
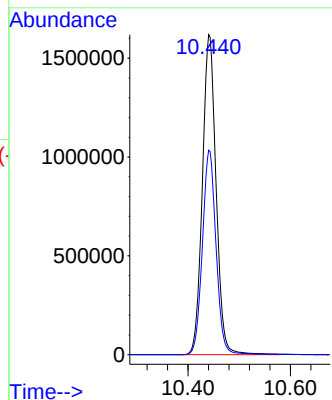
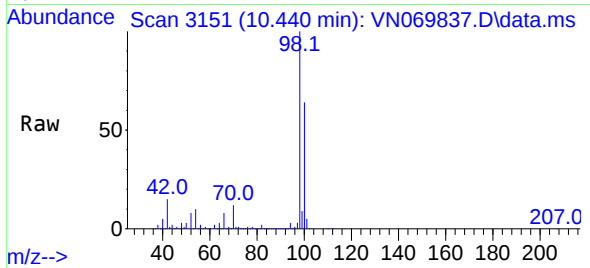




#50
Toluene-d8
Concen: 51.79 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

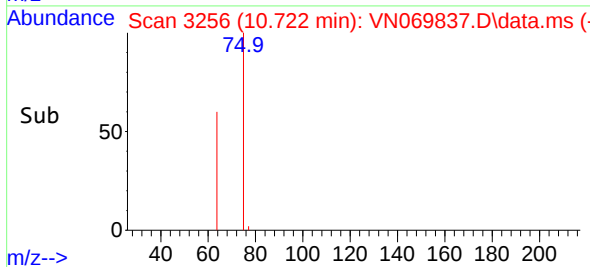
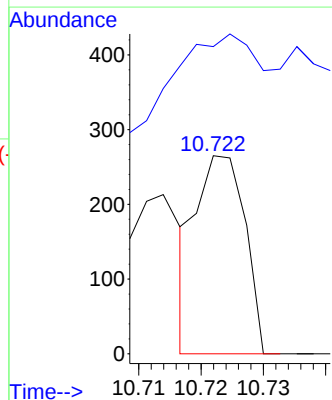
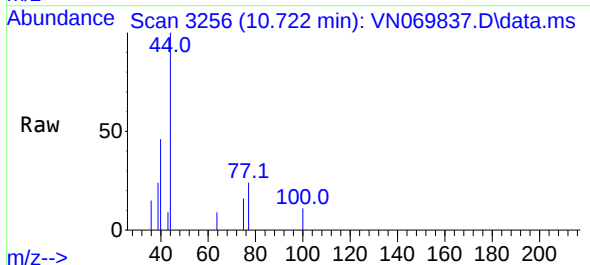
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

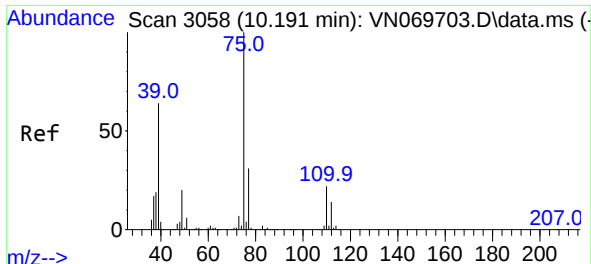
Tgt Ion: 98 Resp: 3009865
Ion Ratio Lower Upper
98 100
100 63.6 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.80 ug/l
RT: 10.722 min Scan# 3256
Delta R.T. 0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

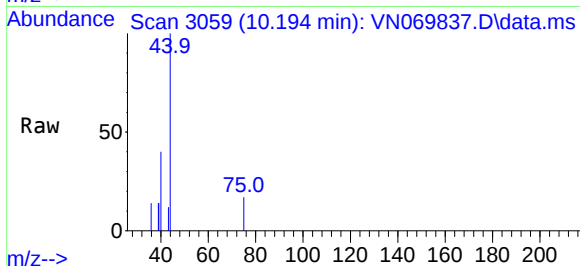
Tgt Ion: 75 Resp: 143
Ion Ratio Lower Upper
75 100
77 11.3 25.6 38.4#



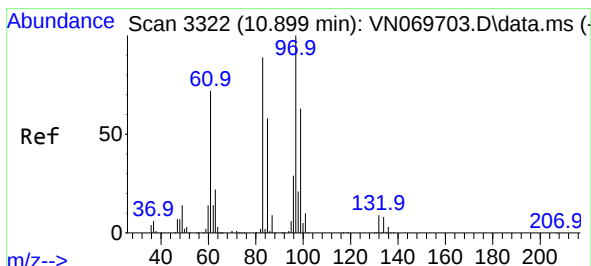
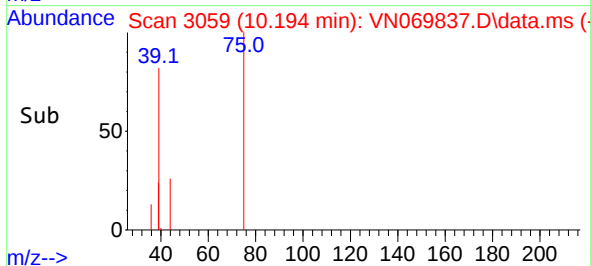
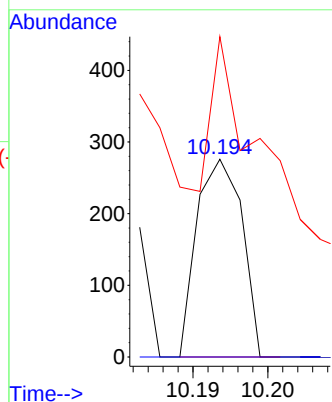


#54
cis-1,3-Dichloropropene
Concen: 2.00 ug/l
RT: 10.194 min Scan# 3058
Delta R.T. 0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

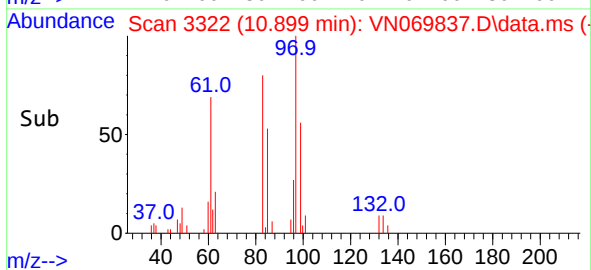
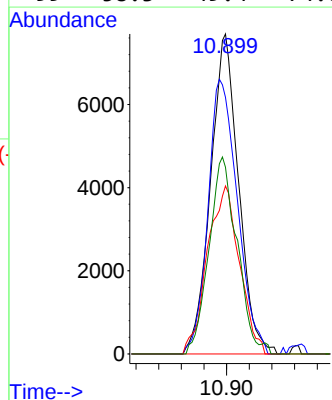
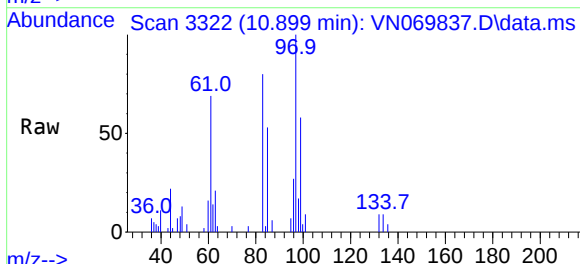


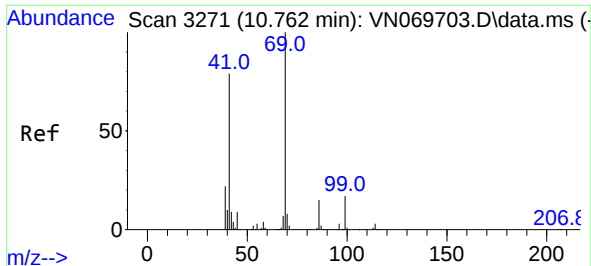
Tgt Ion: 75 Resp: 116
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 76.1 42.5 63.7#



#55
1,1,2-Trichloroethane
Concen: 0.80 ug/l
RT: 10.899 min Scan# 3322
Delta R.T. 0.000 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 97 Resp: 13212
Ion Ratio Lower Upper
97 100
83 80.2 67.8 101.6
85 52.5 45.4 68.2
99 58.3 49.4 74.0

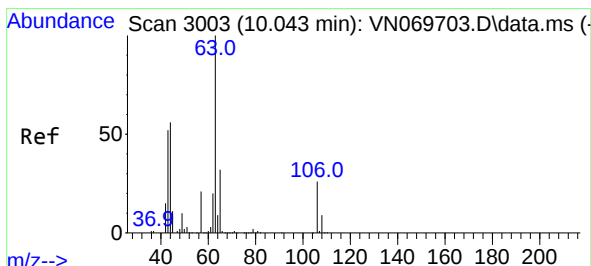
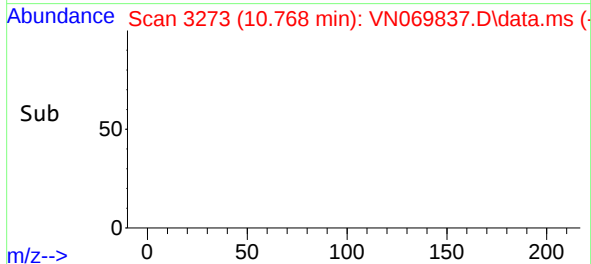
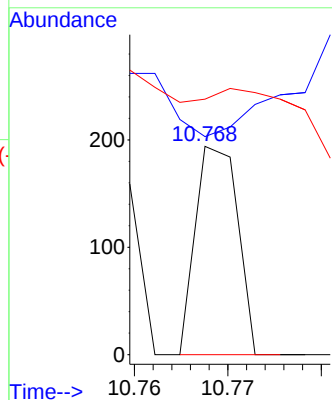
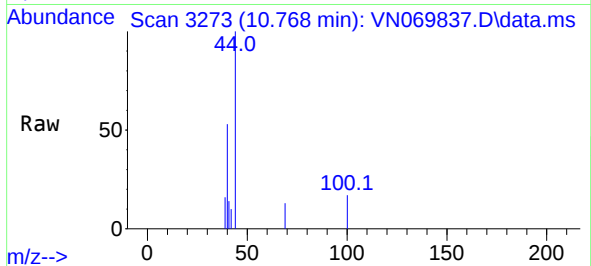




#56
Ethyl methacrylate
Concen: 2.28 ug/l
RT: 10.768 min Scan# 3015
Delta R.T. 0.006 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

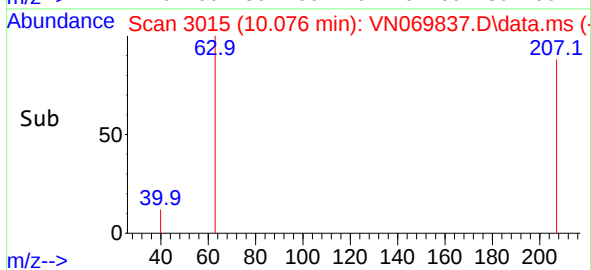
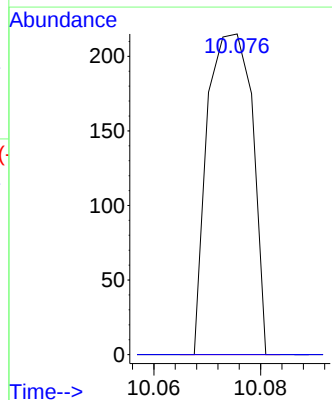
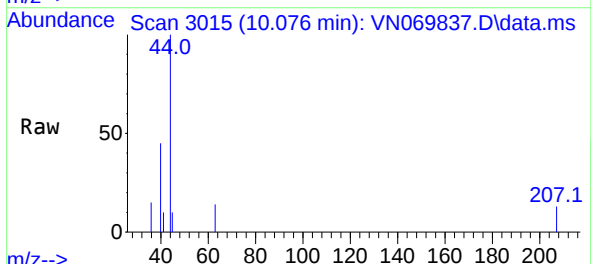
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

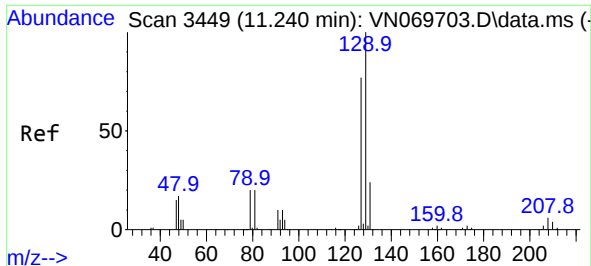
Tgt Ion: 69 Resp: 61
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.40 ug/l
RT: 10.076 min Scan# 3015
Delta R.T. 0.033 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 63 Resp: 125
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

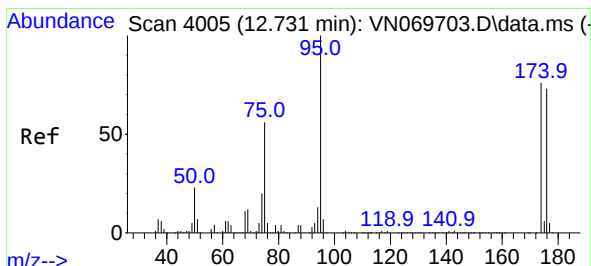
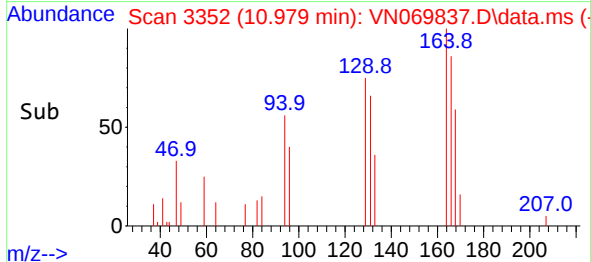
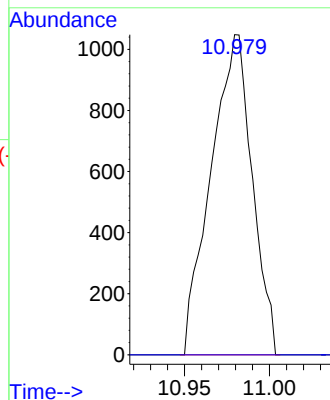
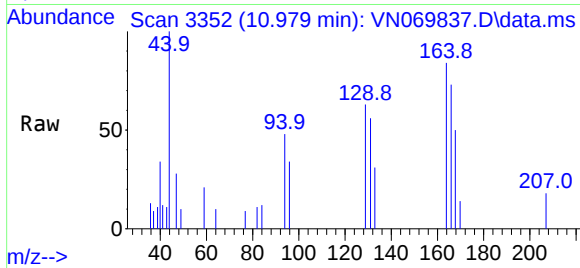




#60
Dibromochloromethane
Concen: 2.47 ug/l
RT: 10.979 min Scan# 31
Delta R.T. -0.261 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

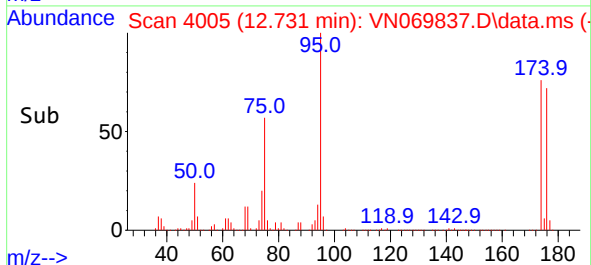
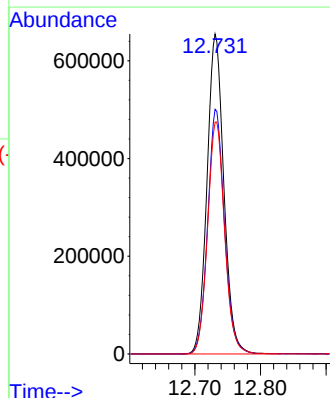
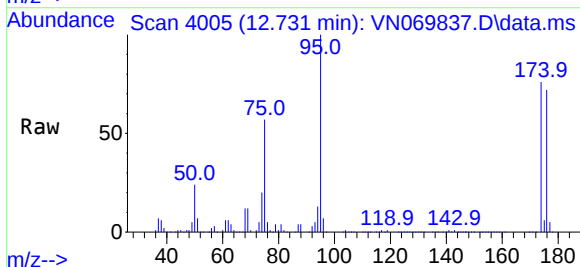
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

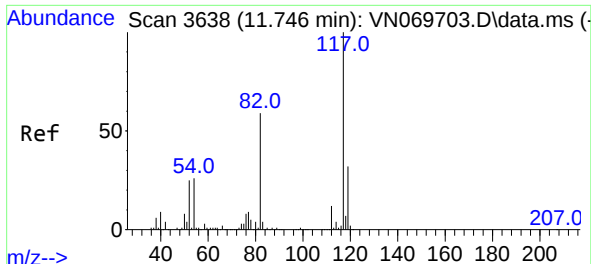
Tgt Ion:129 Resp: 1771
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 55.38 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

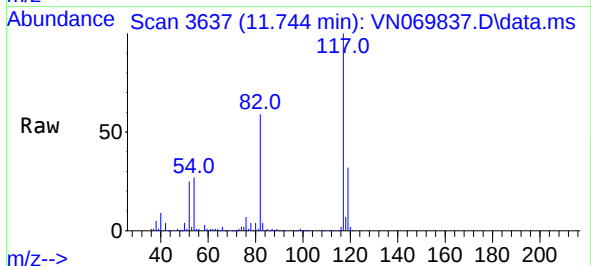
Tgt Ion: 95 Resp: 1165957
Ion Ratio Lower Upper
95 100
174 76.4 0.0 187.2
176 73.2 0.0 181.4





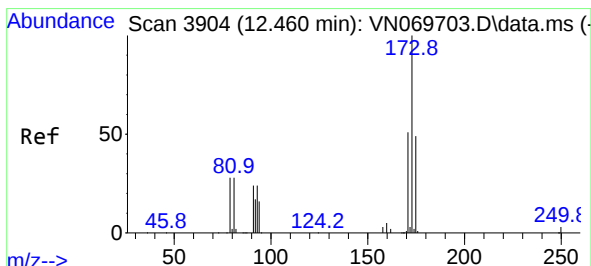
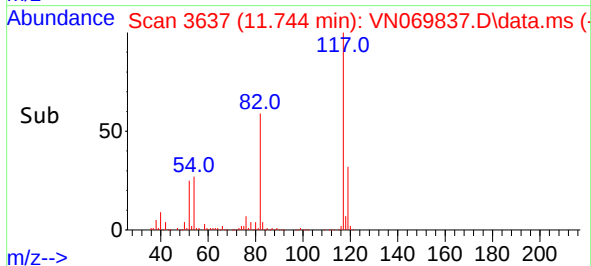
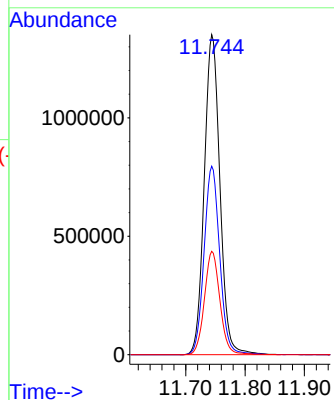
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.744 min Scan# 30
Delta R.T. -0.002 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206



Tgt Ion:117 Resp: 2474868

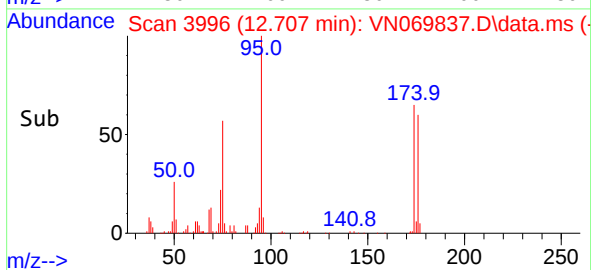
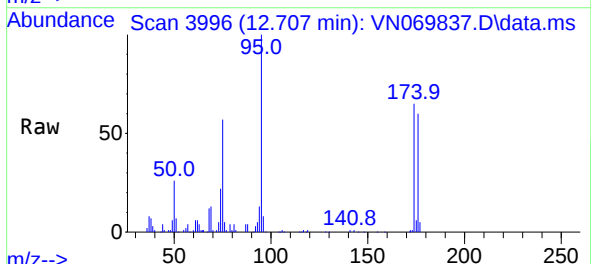
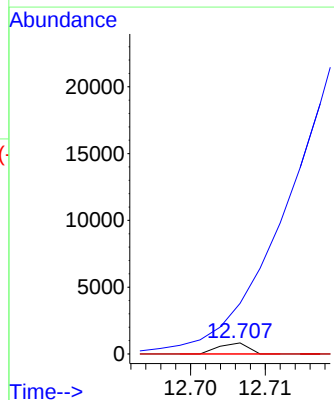
Ion	Ratio	Lower	Upper
117	100		
82	58.9	42.4	63.6
119	32.3	25.4	38.2

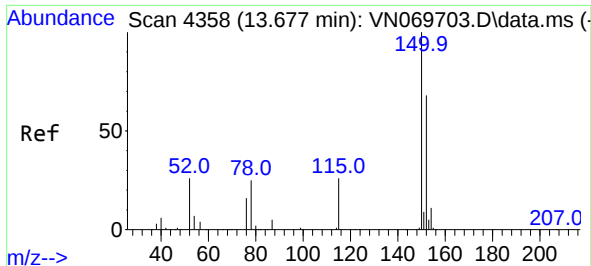


#71
Bromoform
Concen: 2.74 ug/l
RT: 12.707 min Scan# 3996
Delta R.T. 0.247 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion:173 Resp: 225

Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.2	72.6
254	0.0	0.0	0.0

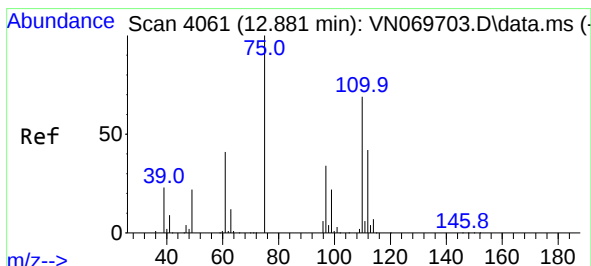
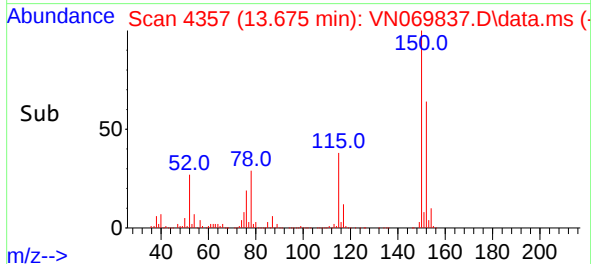
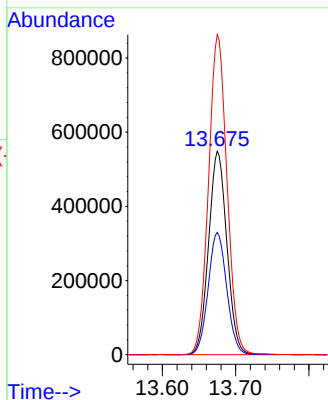
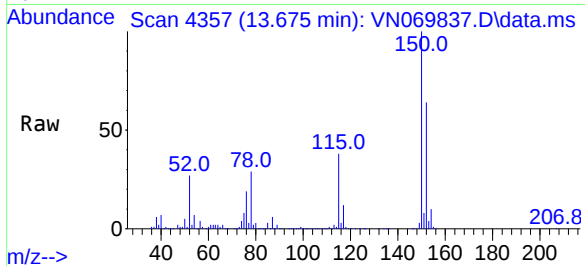




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

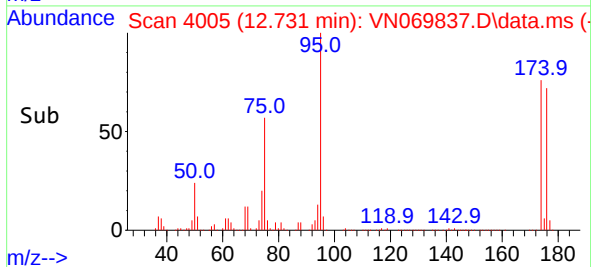
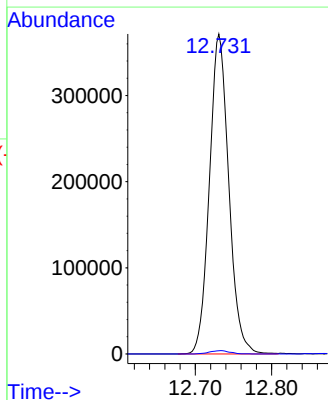
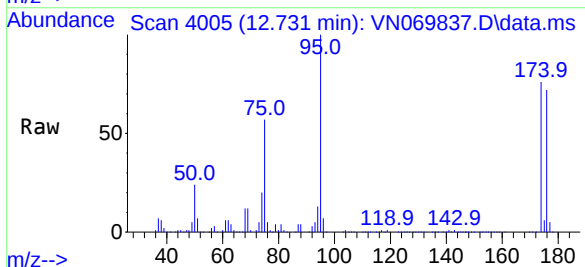
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

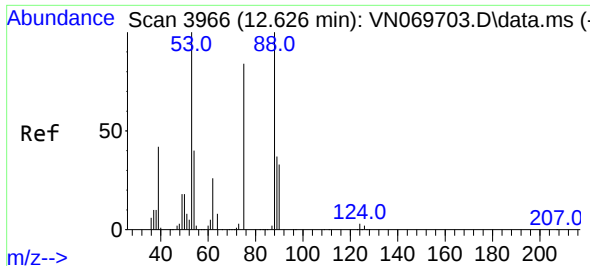
Tgt Ion:152 Resp: 952727
Ion Ratio Lower Upper
152 100
115 61.0 27.5 82.5
150 158.3 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 23.96 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 75 Resp: 654706
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

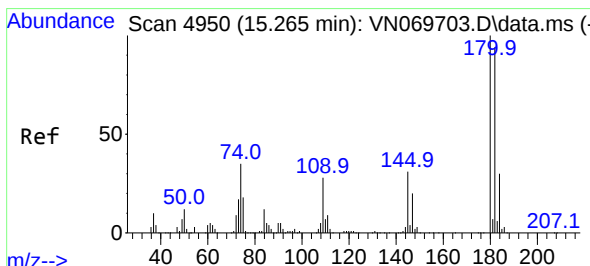
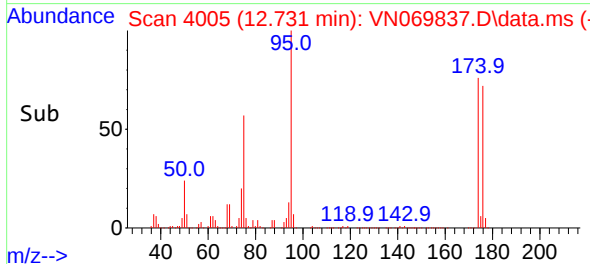
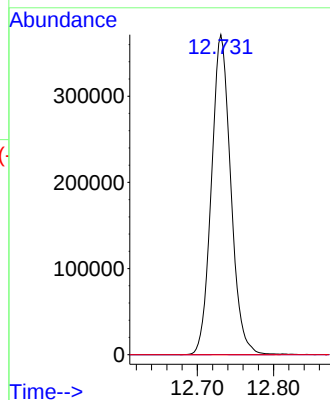
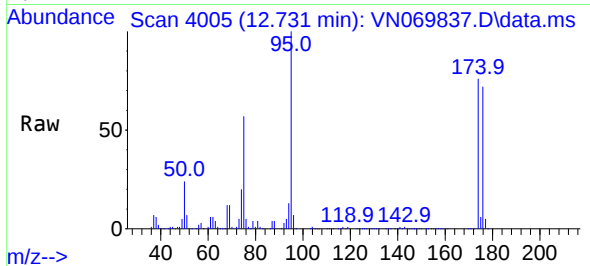




#81
trans-1,4-Dichloro-2-butene
Concen: 76.12 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

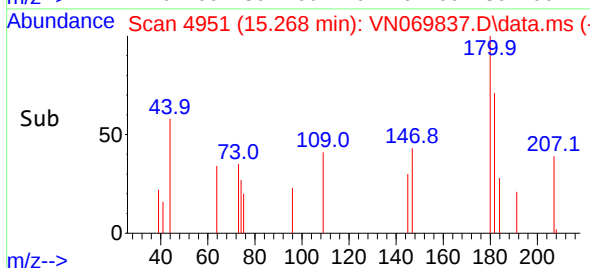
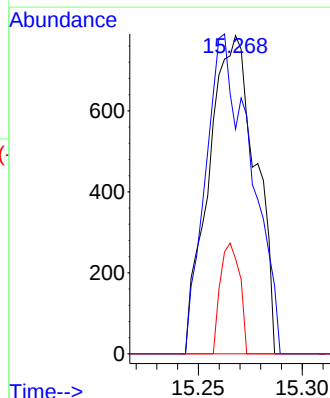
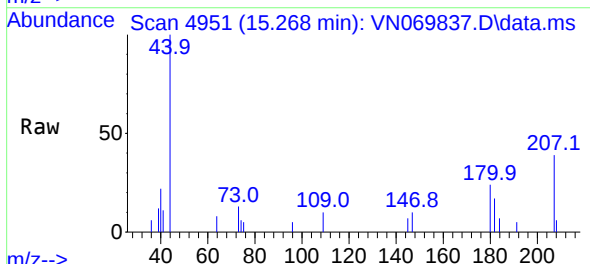
Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

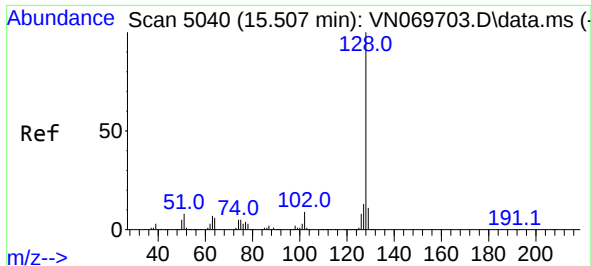
Tgt Ion: 75 Resp: 654706
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.95 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion: 180 Resp: 1229
Ion Ratio Lower Upper
180 100
182 97.5 48.3 144.9
145 14.5 14.5 43.5#



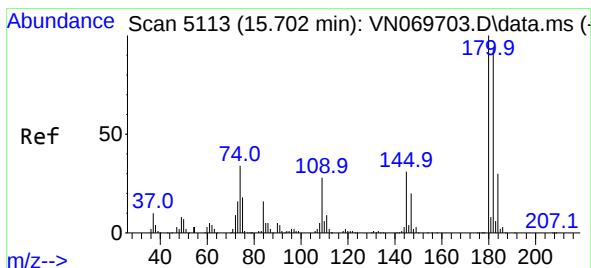
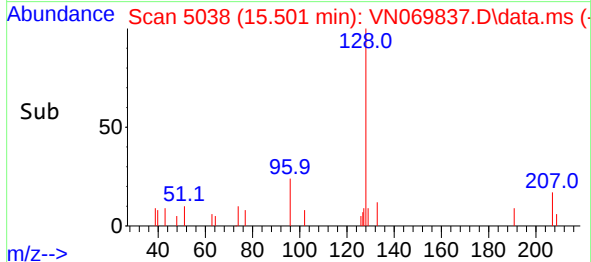
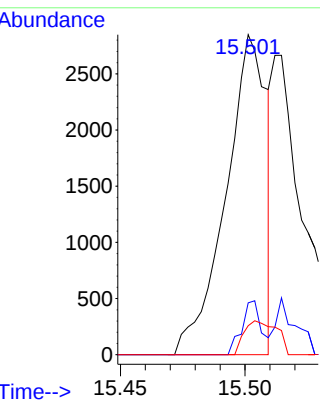
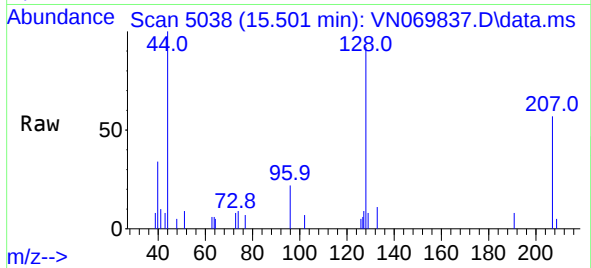


#95
Naphthalene
Concen: 4.05 ug/l
RT: 15.501 min Scan# 5040
Delta R.T. -0.006 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Instrument :
MSVOA_N
ClientSampleId :
RE114D1-20211206

Tgt Ion:128 Resp: 3216

Ion	Ratio	Lower	Upper
128	100		
127	8.2	10.5	15.7#
129	8.6	8.7	13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.44 ug/l
RT: 15.697 min Scan# 5111
Delta R.T. -0.005 min
Lab File: VN069837.D
Acq: 8 Dec 2021 2:00

Tgt Ion:180 Resp: 126

Ion	Ratio	Lower	Upper
180	100		
182	864.3	47.4	142.2#
145	196.8	15.0	45.1#

