

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120721\
 Data File : VN069836.D
 Acq On : 8 Dec 2021 1:34
 Operator : JC/MD
 Sample : M4957-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D2-20211206

Quant Time: Dec 08 06:36:43 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)

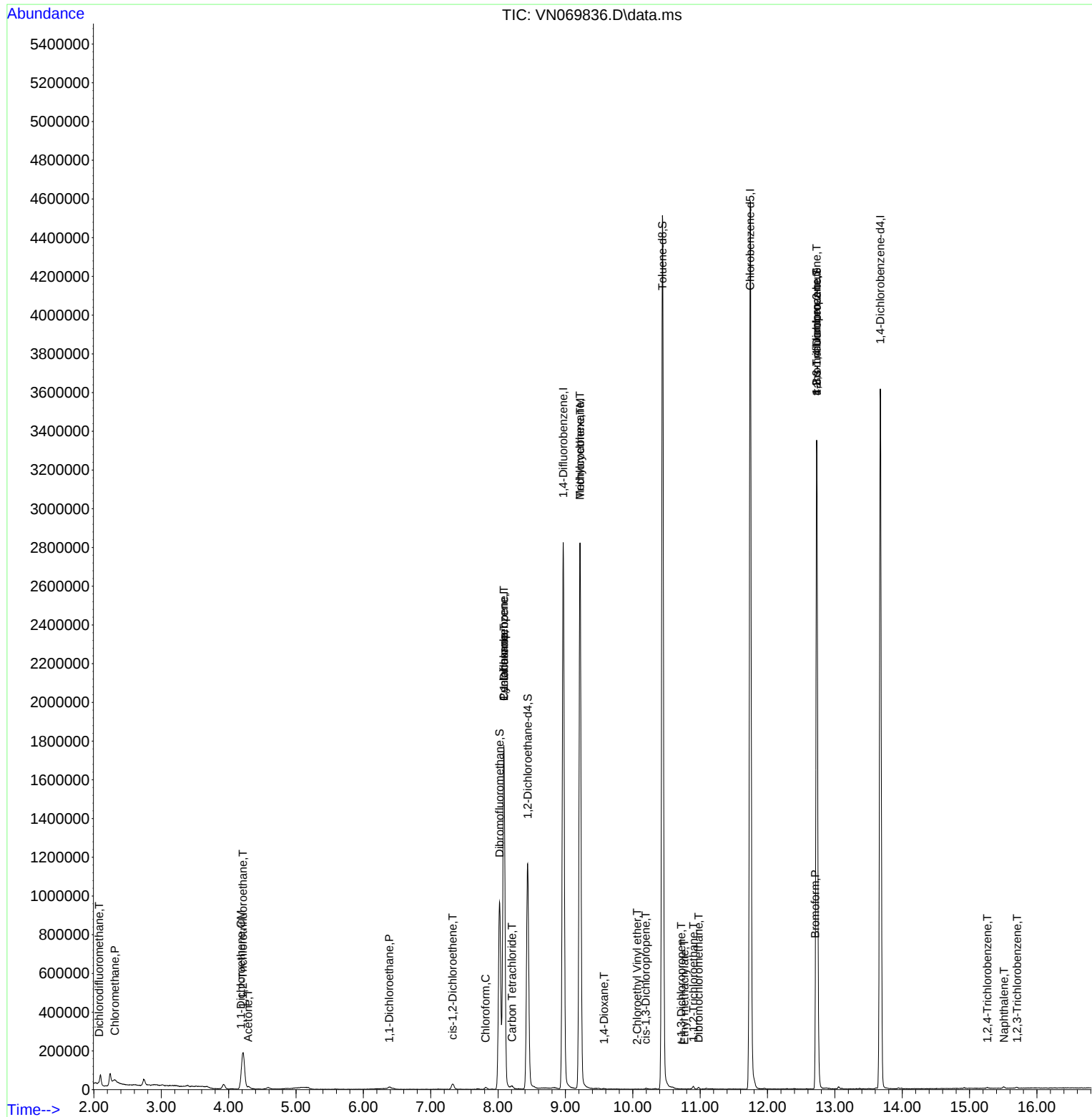
Internal Standards						
1) Pentafluorobenzene	8.086	168	1328113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2385263	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2554101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	955367	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1024998	49.99	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.98%		
35) Dibromofluoromethane	8.021	113	709646	47.50	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.00%		
50) Toluene-d8	10.440	98	3094346	51.58	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.16%		
62) 4-Bromofluorobenzene	12.731	95	1192642	54.87	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	109.74%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.078	85	7626	0.49	ug/l	90
3) Chloromethane	2.309	50	4225	0.22	ug/l #	86
9) 1,1,2-Trichlorotrifluo...	4.210	101	60107	4.58	ug/l #	45
12) 1,1-Dichloroethene	4.183	96	8190	0.65	ug/l	94
16) Acetone	4.291	43	14159	1.15	ug/l	98
24) 1,1-Dichloroethane	6.383	63	11531	0.40	ug/l #	91
27) cis-1,2-Dichloroethene	7.327	96	16289	0.98	ug/l	97
30) Chloroform	7.812	83	9613	0.33	ug/l #	78
31) Cyclohexane	8.086	56	33875	1.19	ug/l #	31
36) 1,1-Dichloropropene	8.086	75	113426	5.00	ug/l #	49
38) Carbon Tetrachloride	8.206	117	7533	0.34	ug/l	98
39) Methylcyclohexane	9.215	83	13876	0.51	ug/l #	1
44) Trichloroethene	9.217	130	991976	59.88	ug/l	92
49) 1,4-Dioxane	9.574	88	2303	5.50	ug/l #	83
53) t-1,3-Dichloropropene	10.719	75	265	2.80	ug/l #	75
54) cis-1,3-Dichloropropene	10.194	75	82	2.00	ug/l #	31
55) 1,1,2-Trichloroethane	10.899	97	4141	0.24	ug/l	93
56) Ethyl methacrylate	10.768	69	332	2.29	ug/l #	23
58) 2-Chloroethyl Vinyl ether	10.065	63	163	18.41	ug/l #	45
60) Dibromochloromethane	10.977	129	1907	2.48	ug/l #	11
71) Bromoform	12.709	173	395	2.75	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	667425	24.36	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	667425	77.31	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.265	180	1470	2.97	ug/l #	60
95) Naphthalene	15.509	128	7002	4.12	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.705	180	1892	2.55	ug/l	96

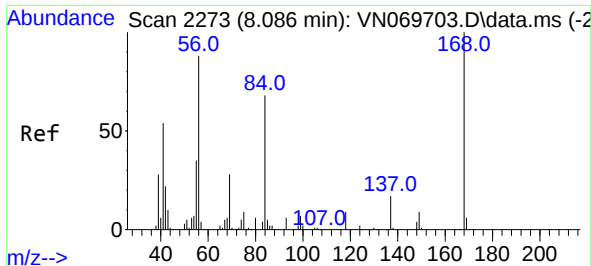
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

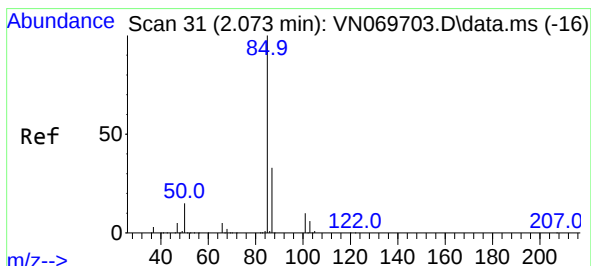
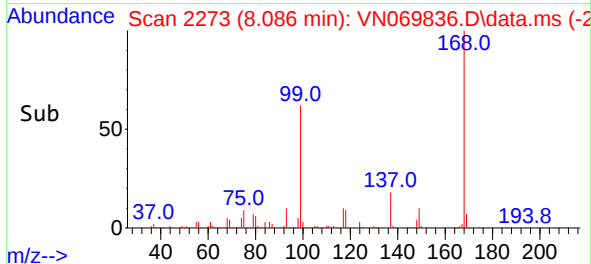
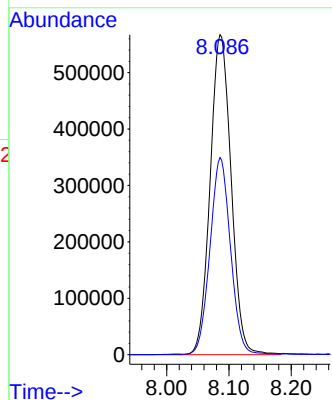
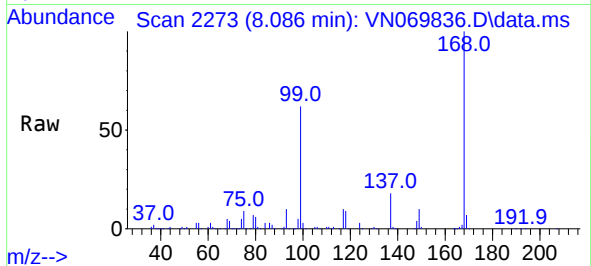




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

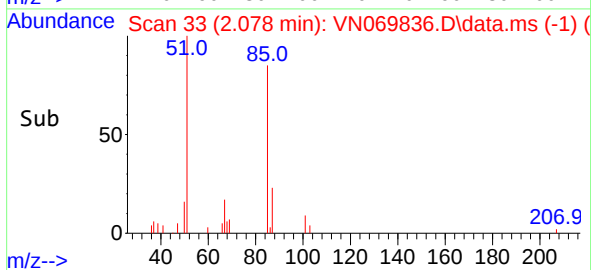
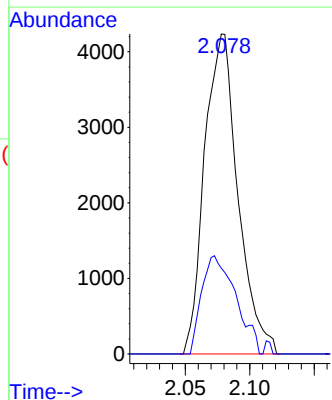
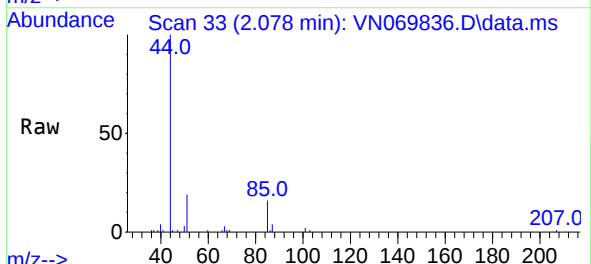
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

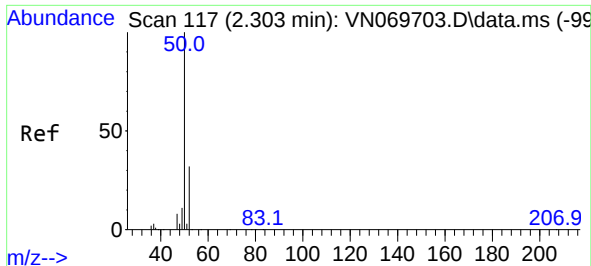
Tgt Ion:168 Resp: 1328113
Ion Ratio Lower Upper
168 100
99 61.4 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.49 ug/l
RT: 2.078 min Scan# 33
Delta R.T. 0.005 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion: 85 Resp: 7626
Ion Ratio Lower Upper
85 100
87 26.8 16.3 48.9

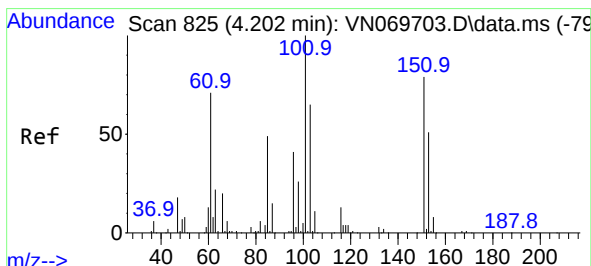
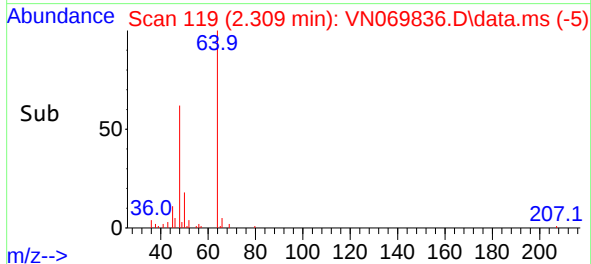
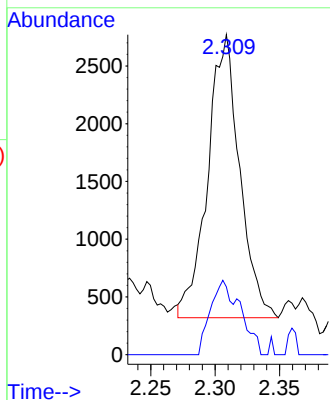
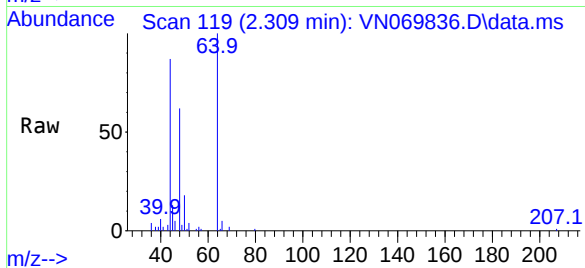




#3
Chloromethane
Concen: 0.22 ug/l
RT: 2.309 min Scan# 117
Delta R.T. 0.005 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

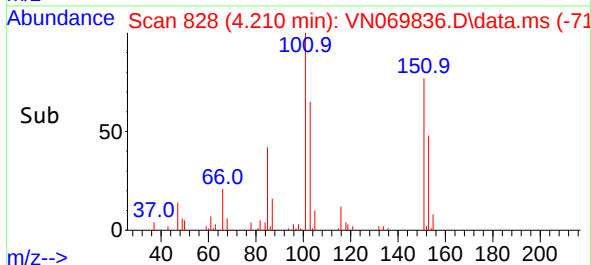
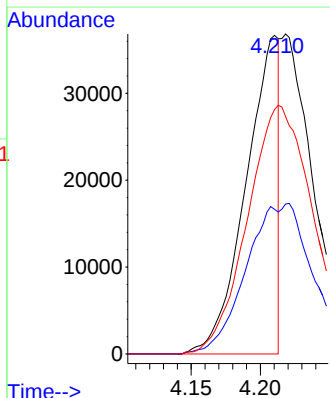
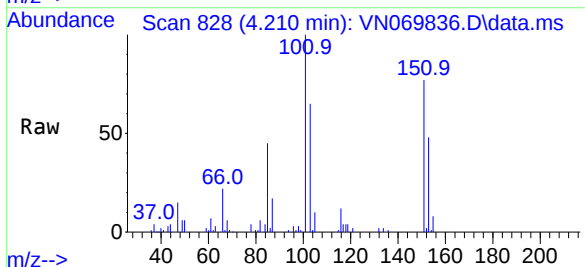
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

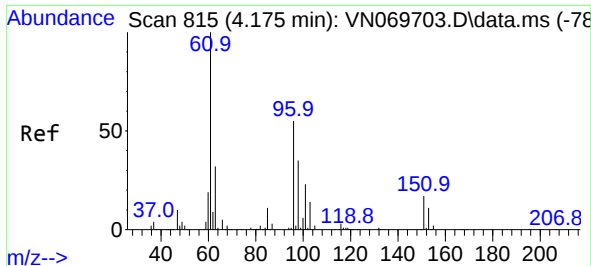
Tgt Ion: 50 Resp: 4225
Ion Ratio Lower Upper
50 100
52 24.0 25.4 38.0#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.58 ug/l
RT: 4.210 min Scan# 828
Delta R.T. 0.008 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

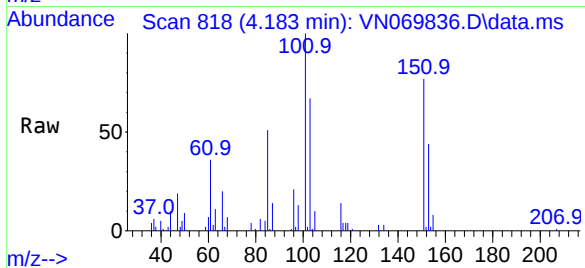
Tgt Ion: 101 Resp: 60107
Ion Ratio Lower Upper
101 100
85 48.6 37.2 55.8
151 158.4 65.9 98.9#



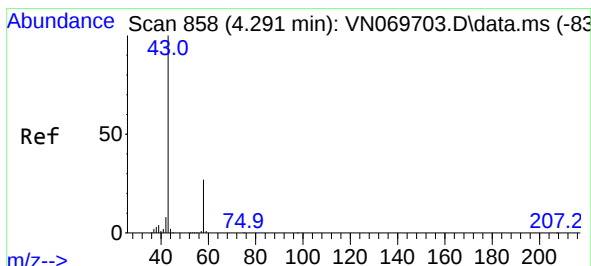
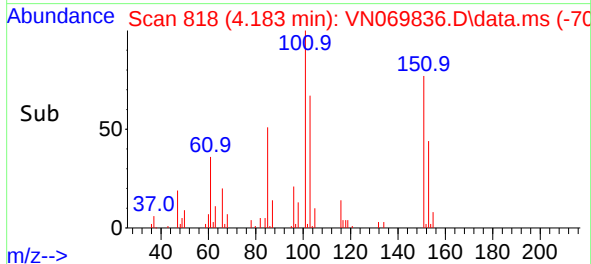
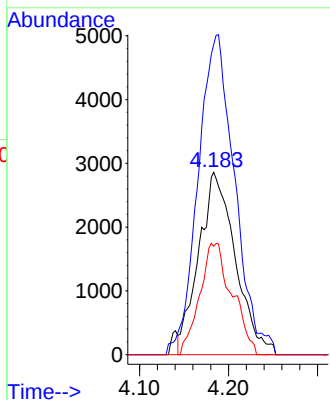


#12
1,1-Dichloroethene
Concen: 0.65 ug/l
RT: 4.183 min Scan# 815
Delta R.T. 0.008 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

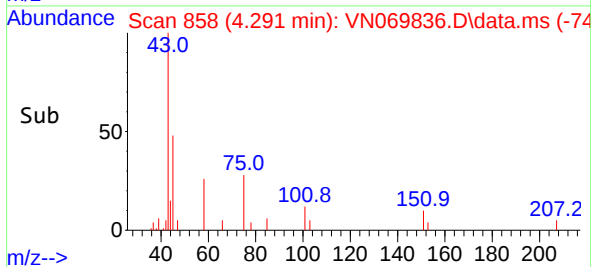
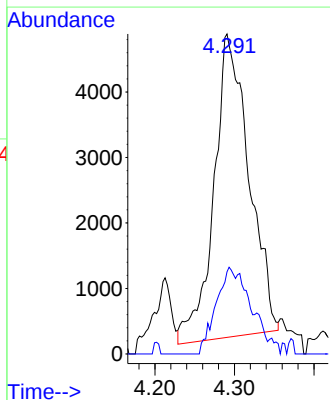
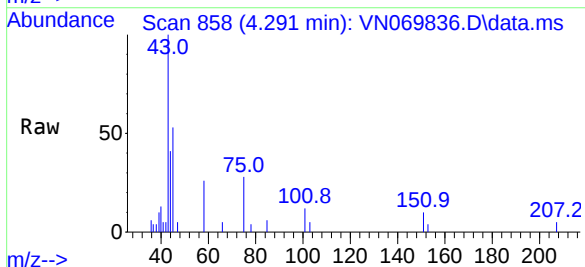


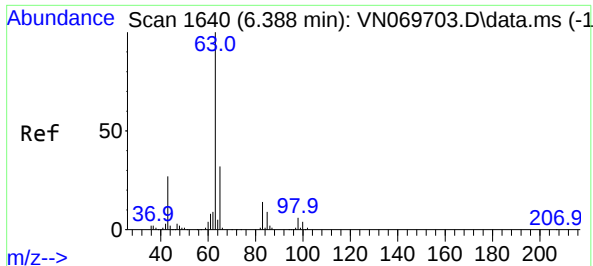
Tgt Ion: 96 Resp: 8190
Ion Ratio Lower Upper
96 100
61 170.1 131.0 196.6
98 59.5 52.4 78.6



#16
Acetone
Concen: 1.15 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion: 43 Resp: 14159
Ion Ratio Lower Upper
43 100
58 27.7 23.1 34.7

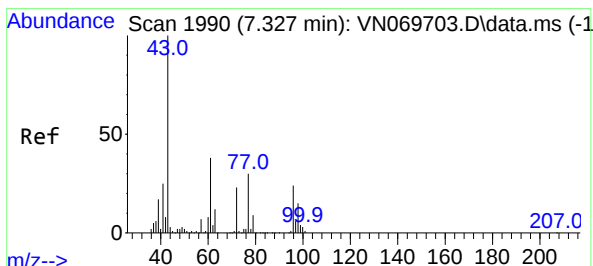
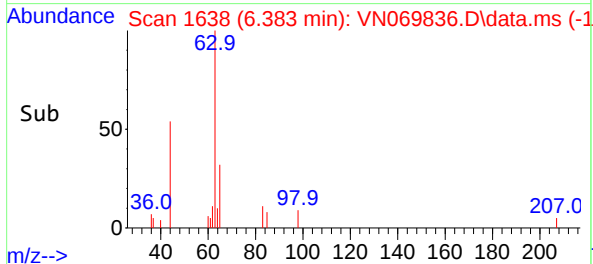
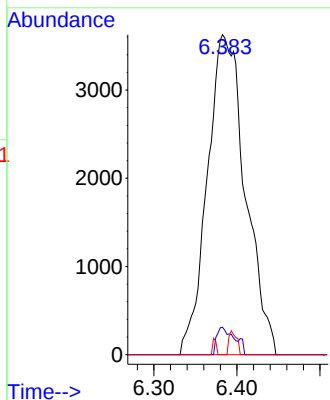
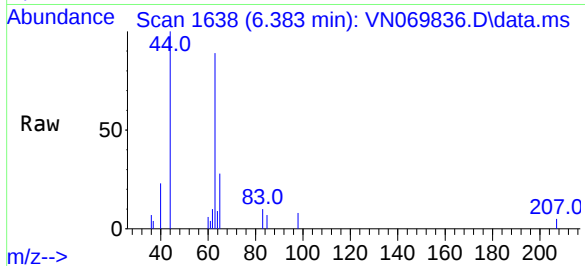




#24
1,1-Dichloroethane
Concen: 0.40 ug/l
RT: 6.383 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

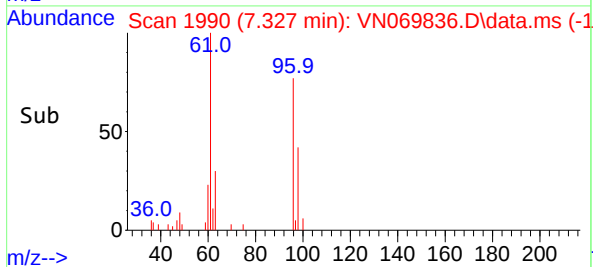
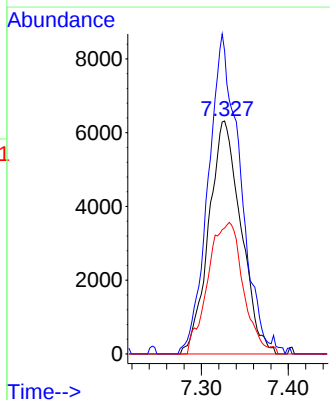
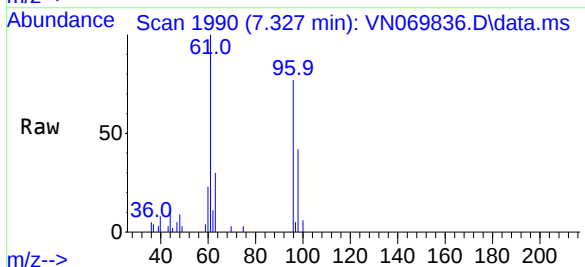
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

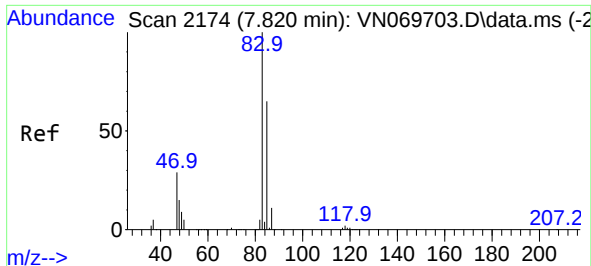
Tgt Ion: 63 Resp: 11531
Ion Ratio Lower Upper
63 100
98 8.6 3.3 9.9
100 0.0 2.1 6.5#



#27
cis-1,2-Dichloroethene
Concen: 0.98 ug/l
RT: 7.327 min Scan# 1990
Delta R.T. 0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion: 96 Resp: 16289
Ion Ratio Lower Upper
96 100
61 135.3 0.0 275.0
98 61.2 0.0 129.6





#30

Chloroform

Concen: 0.33 ug/l

RT: 7.812 min Scan# 2174

Delta R.T. -0.008 min

Lab File: VN069836.D

Acq: 8 Dec 2021 1:34

Instrument :

MSVOA_N

ClientSampleId :

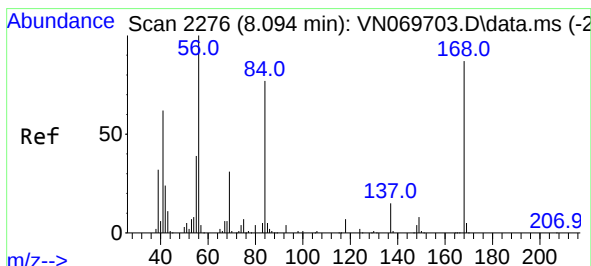
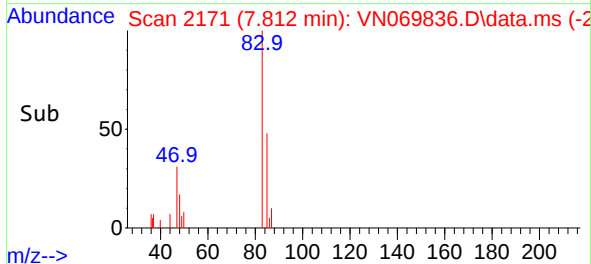
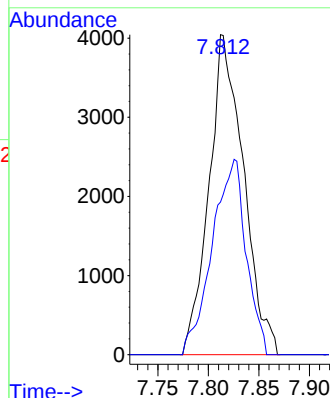
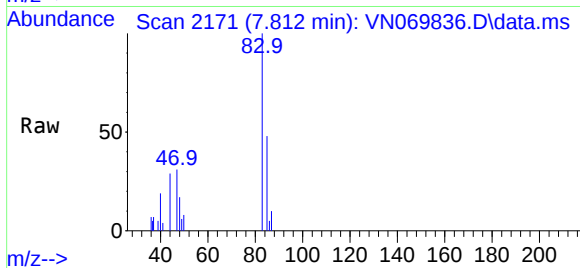
RE114D2-20211206

Tgt Ion: 83 Resp: 9613

Ion Ratio Lower Upper

83 100

85 47.7 51.9 77.9#



#31

Cyclohexane

Concen: 1.19 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN069836.D

Acq: 8 Dec 2021 1:34

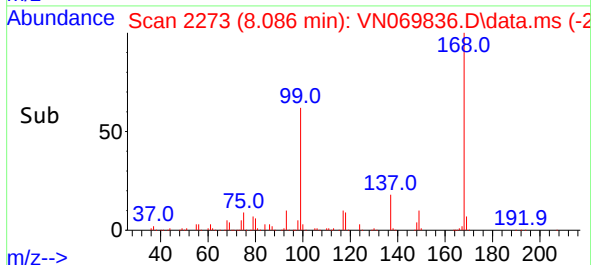
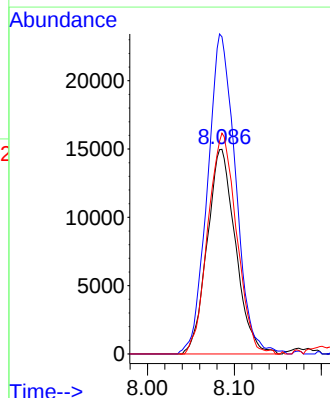
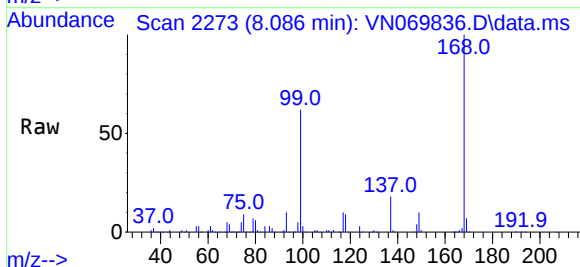
Tgt Ion: 56 Resp: 33875

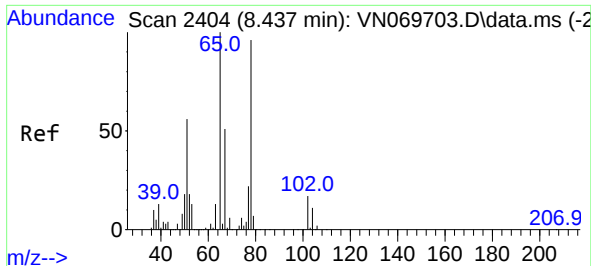
Ion Ratio Lower Upper

56 100

69 153.7 27.1 40.7#

84 107.9 73.4 110.0

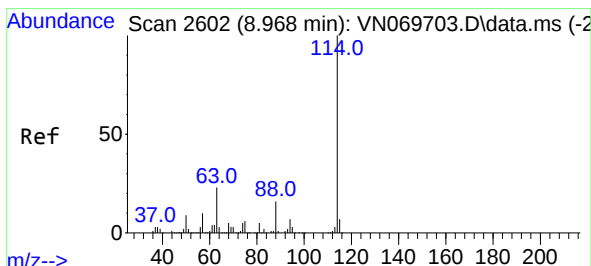
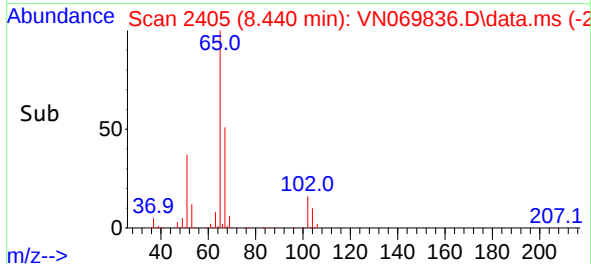
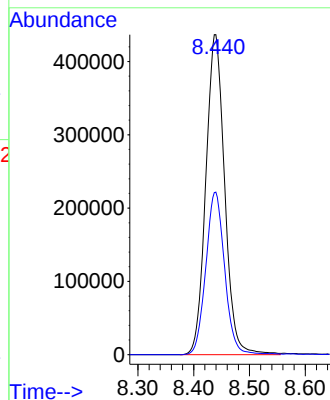
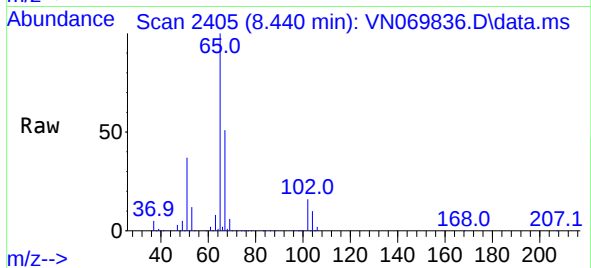




#33
 1,2-Dichloroethane-d4
 Concen: 49.99 ug/l
 RT: 8.440 min Scan# 2404
 Delta R.T. 0.003 min
 Lab File: VN069836.D
 Acq: 8 Dec 2021 1:34

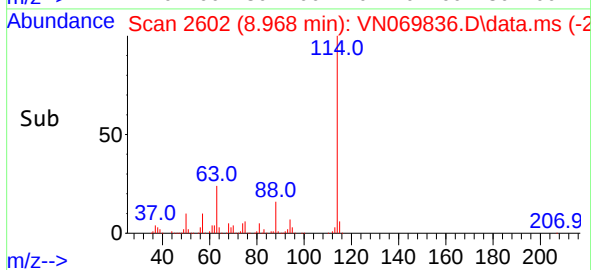
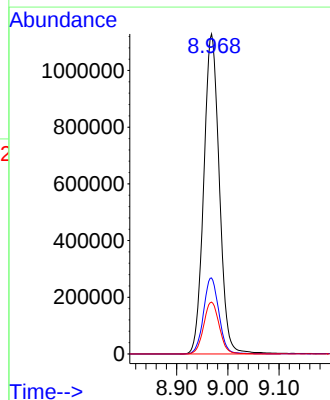
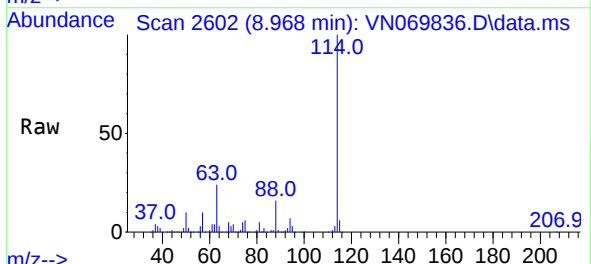
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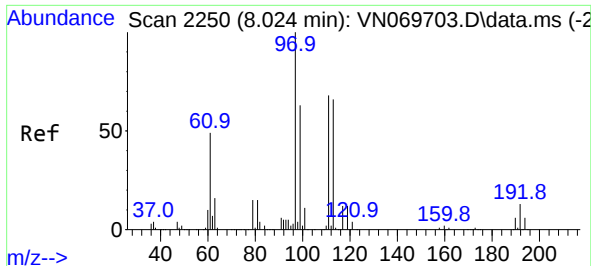
Tgt Ion: 65 Resp: 1024998
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. -0.000 min
 Lab File: VN069836.D
 Acq: 8 Dec 2021 1:34

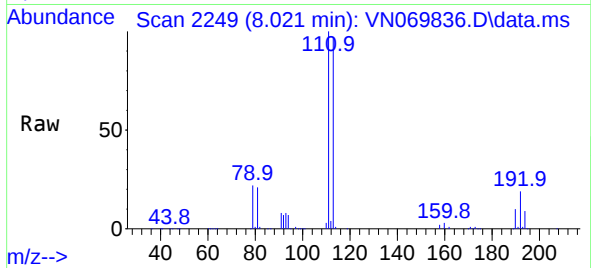
Tgt Ion: 114 Resp: 2385263
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 37.8
 88 16.2 0.0 27.4



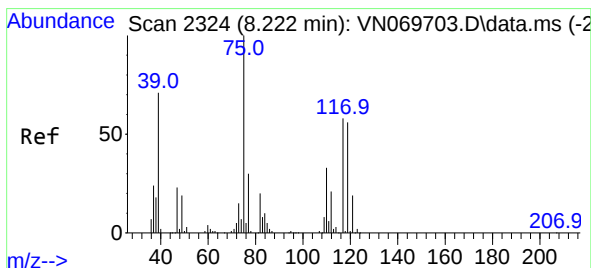
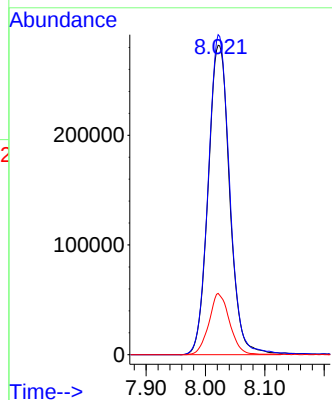
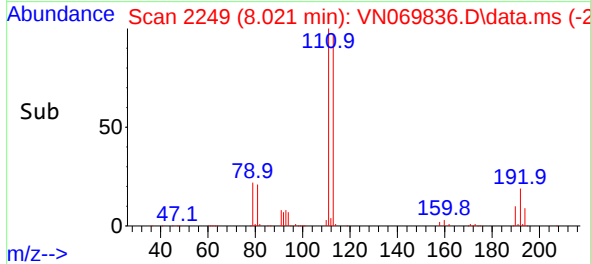


#35
Dibromofluoromethane
Concen: 47.50 ug/l
RT: 8.021 min Scan# 211
Delta R.T. -0.003 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Instrument :
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ClientSampleId :
RE114D2-20211206

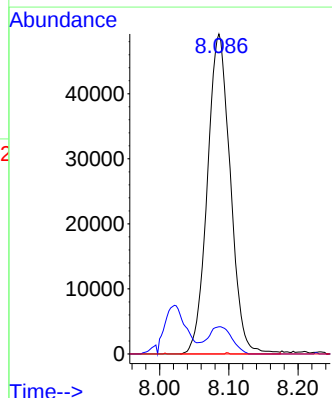
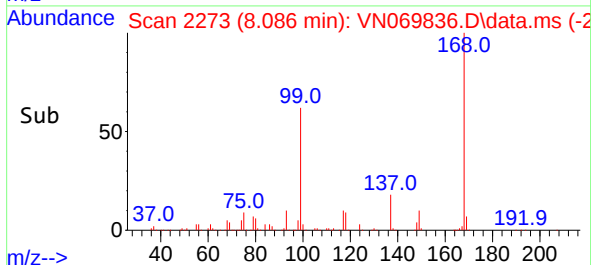
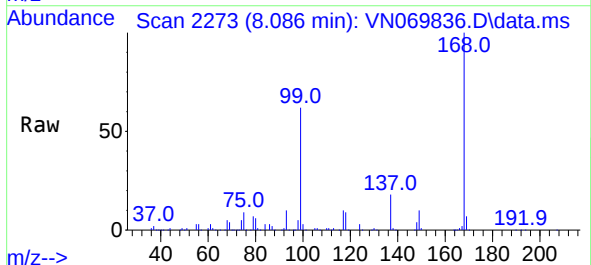


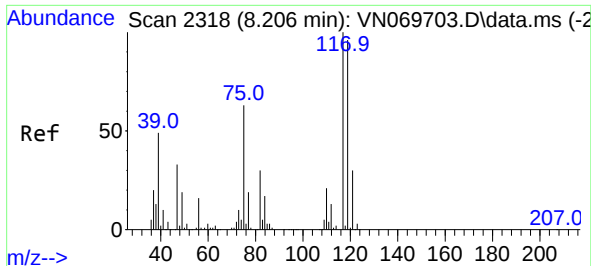
Tgt Ion:113 Resp: 709646
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.2
192 19.0 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.00 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

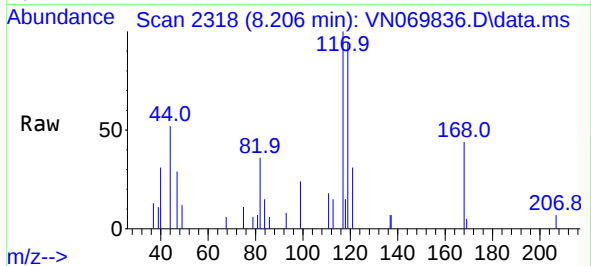
Tgt Ion: 75 Resp: 113426
Ion Ratio Lower Upper
75 100
110 8.6 18.4 55.2#
77 0.1 24.4 36.6#



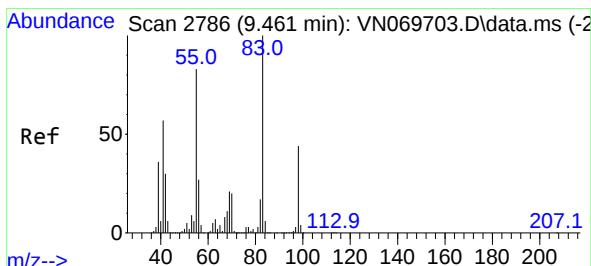
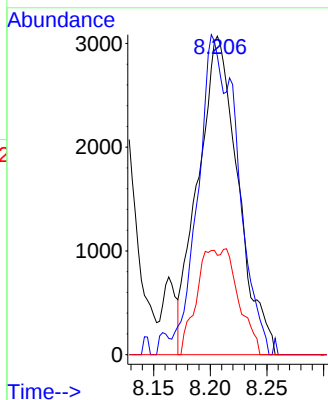
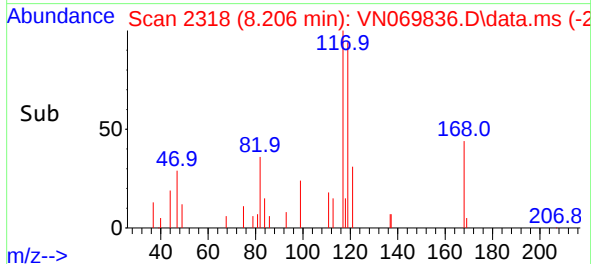


#38
Carbon Tetrachloride
Concen: 0.34 ug/l
RT: 8.206 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

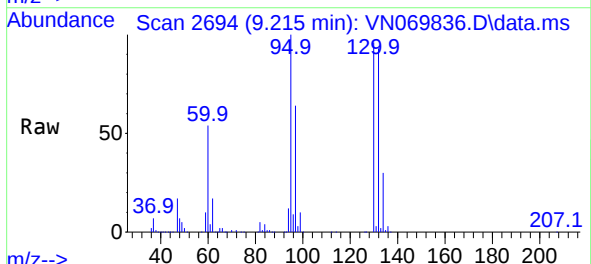
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206



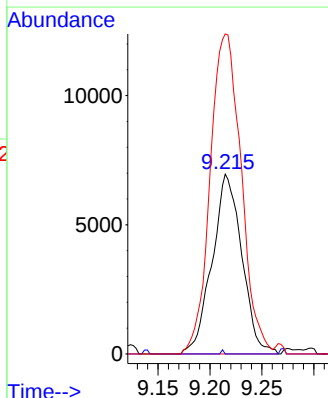
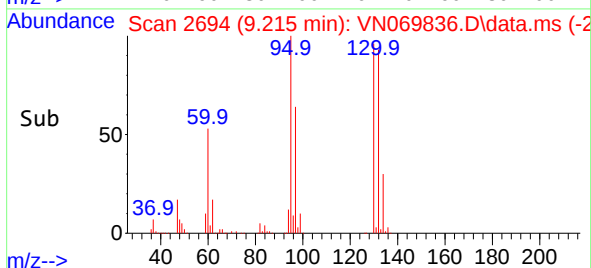
Tgt Ion:117 Resp: 7533
Ion Ratio Lower Upper
117 100
119 93.6 76.1 114.1
121 31.2 24.2 36.2

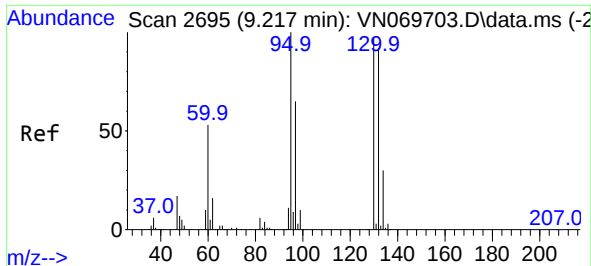


#39
Methylcyclohexane
Concen: 0.51 ug/l
RT: 9.215 min Scan# 2694
Delta R.T. -0.247 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34



Tgt Ion: 83 Resp: 13876
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 178.0 38.4 57.6#

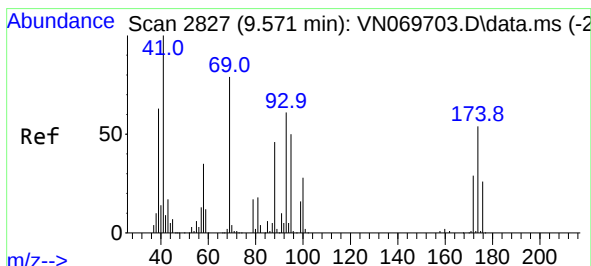
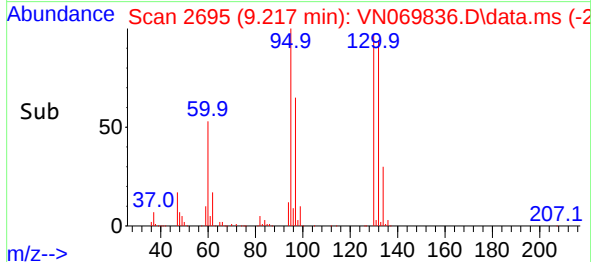
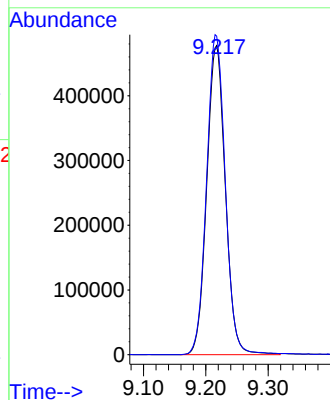
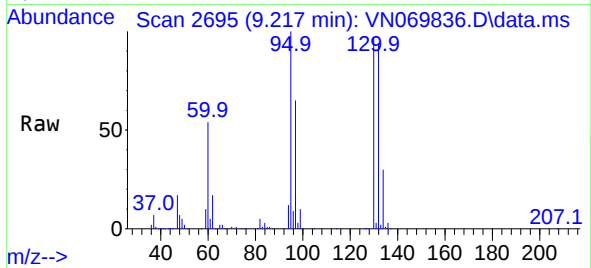




#44
Trichloroethene
Concen: 59.88 ug/l
RT: 9.217 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

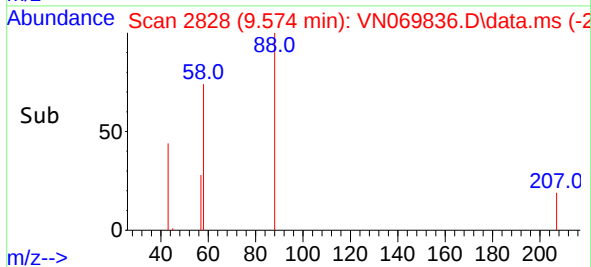
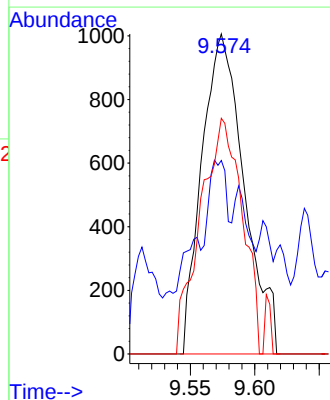
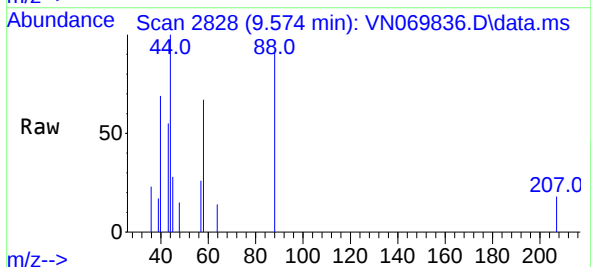
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

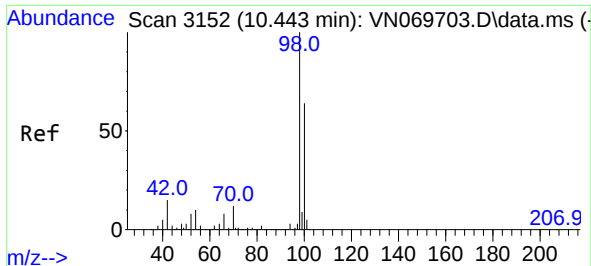
Tgt Ion:130 Resp: 991976
Ion Ratio Lower Upper
130 100
95 103.1 0.0 191.2



#49
1,4-Dioxane
Concen: 5.50 ug/l
RT: 9.574 min Scan# 2828
Delta R.T. 0.003 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion: 88 Resp: 2303
Ion Ratio Lower Upper
88 100
43 15.4 23.4 35.2#
58 72.7 50.6 75.8

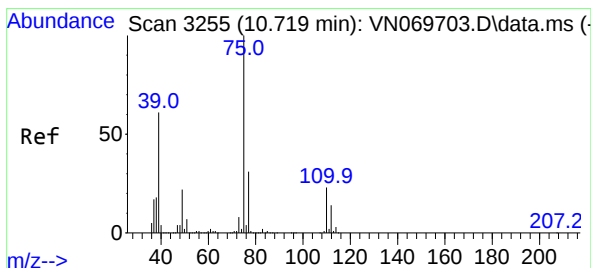
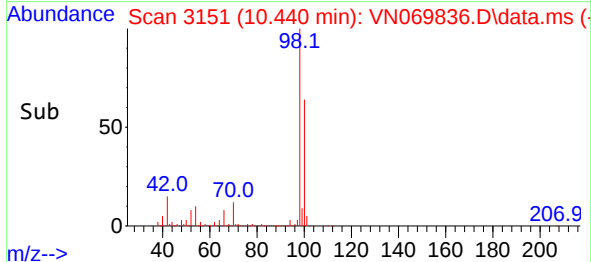
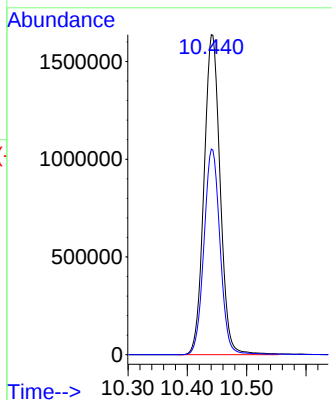
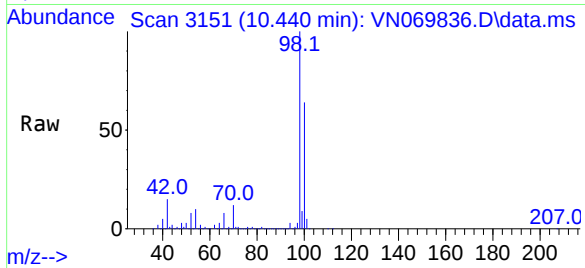




#50
Toluene-d8
Concen: 51.58 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

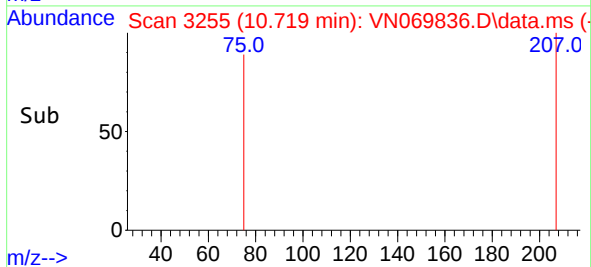
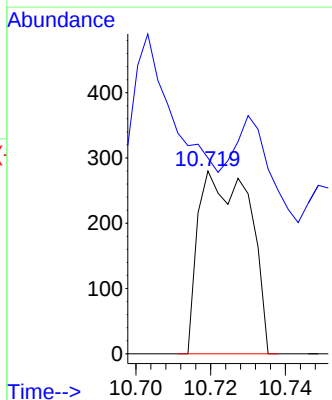
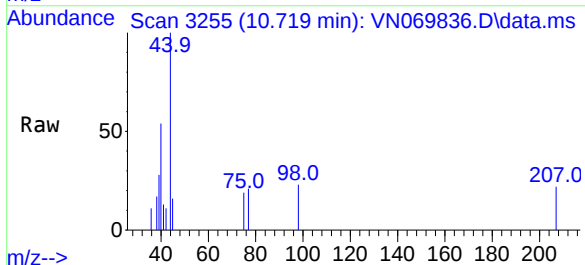
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

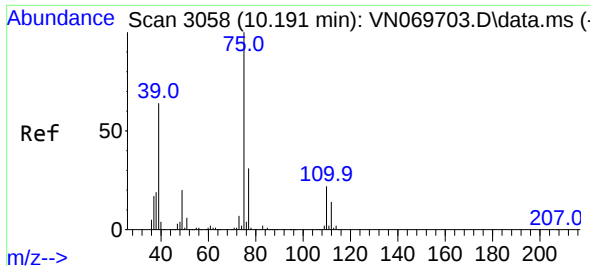
Tgt Ion: 98 Resp: 3094346
Ion Ratio Lower Upper
98 100
100 63.9 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.80 ug/l
RT: 10.719 min Scan# 3255
Delta R.T. 0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

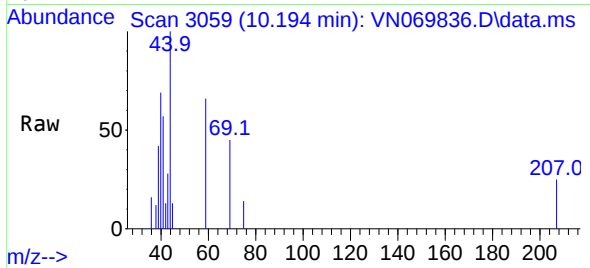
Tgt Ion: 75 Resp: 265
Ion Ratio Lower Upper
75 100
77 17.9 25.6 38.4#





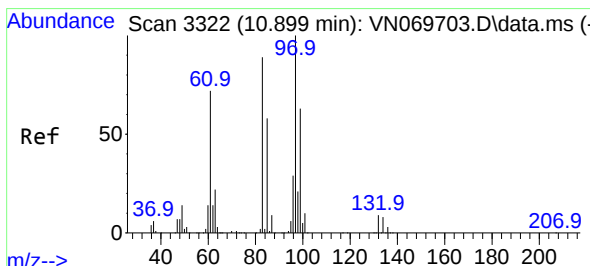
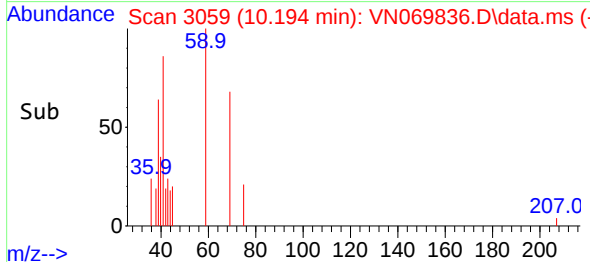
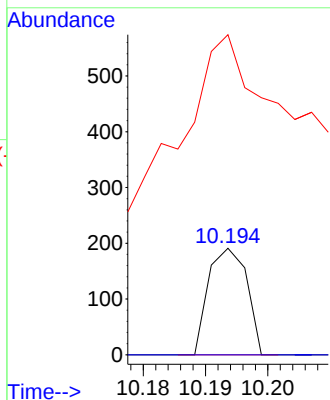
#54
 cis-1,3-Dichloropropene
 Concen: 2.00 ug/l
 RT: 10.194 min Scan# 3058
 Delta R.T. 0.003 min
 Lab File: VN069836.D
 Acq: 8 Dec 2021 1:34

Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D2-20211206



Tgt Ion: 75 Resp: 82

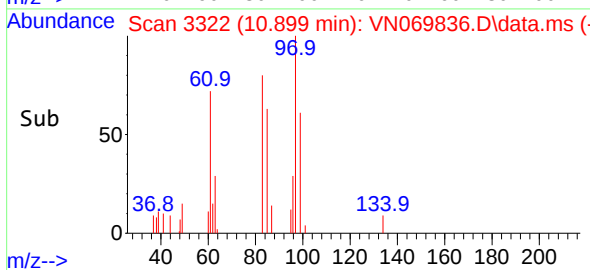
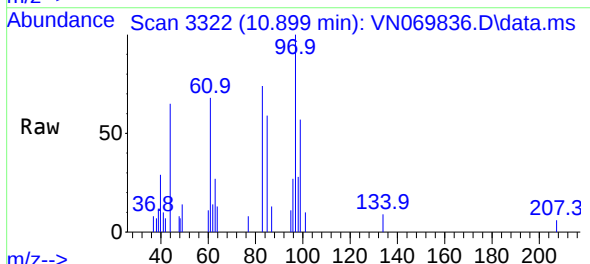
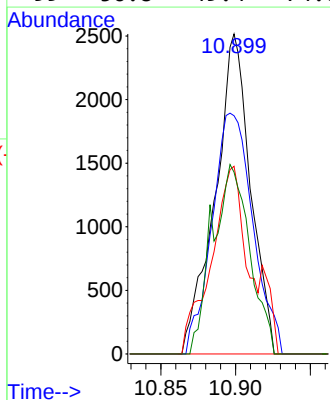
Ion	Ratio	Lower	Upper
75	100		
77	0.0	26.4	39.6#
39	107.3	42.5	63.7#

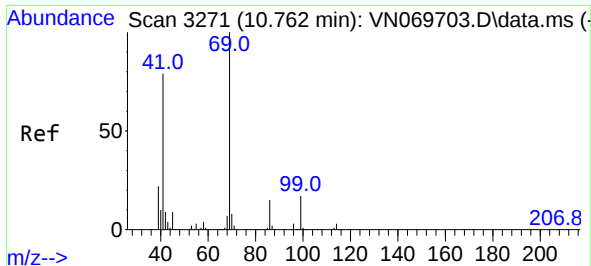


#55
 1,1,2-Trichloroethane
 Concen: 0.24 ug/l
 RT: 10.899 min Scan# 3322
 Delta R.T. 0.000 min
 Lab File: VN069836.D
 Acq: 8 Dec 2021 1:34

Tgt Ion: 97 Resp: 4141

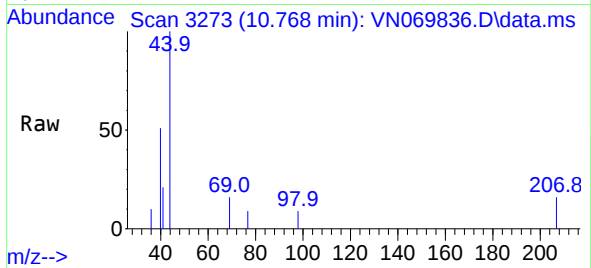
Ion	Ratio	Lower	Upper
97	100		
83	74.4	67.8	101.6
85	58.7	45.4	68.2
99	56.8	49.4	74.0



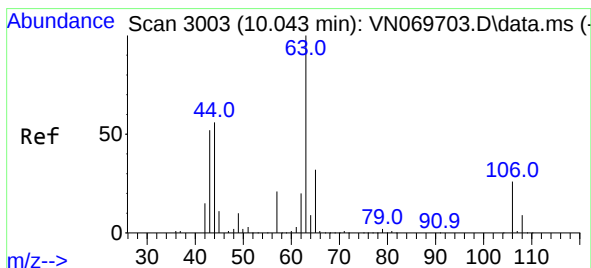
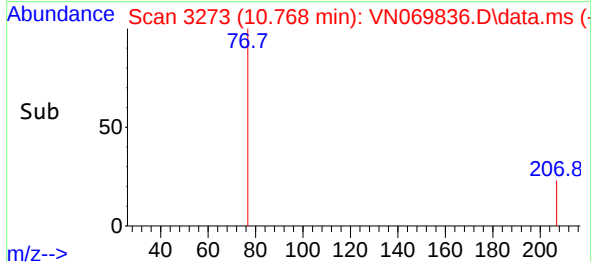
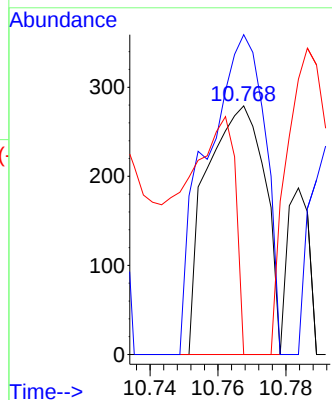


#56
Ethyl methacrylate
Concen: 2.29 ug/l
RT: 10.768 min Scan# 3011
Delta R.T. 0.006 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

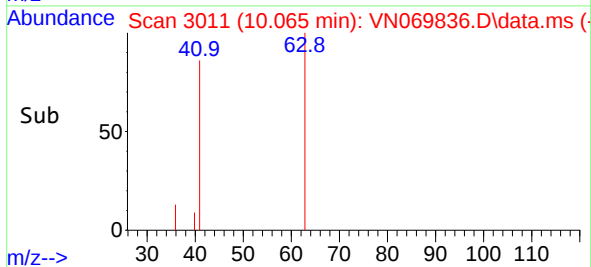
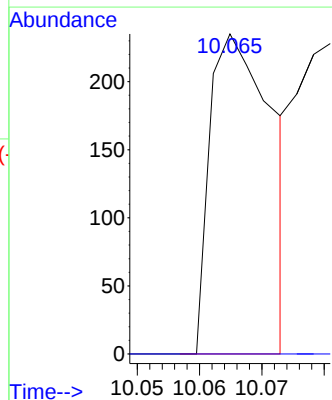
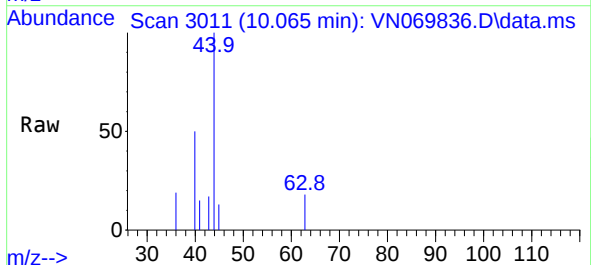


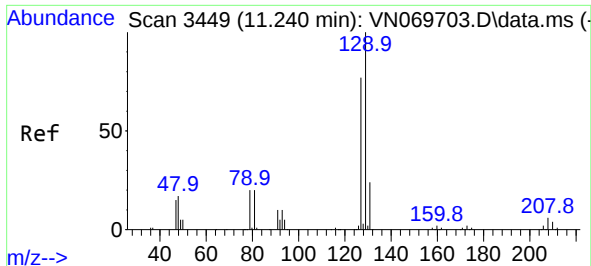
Tgt Ion: 69 Resp: 332
Ion Ratio Lower Upper
69 100
41 129.8 51.4 77.0#
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.41 ug/l
RT: 10.065 min Scan# 3011
Delta R.T. 0.022 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion: 63 Resp: 163
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

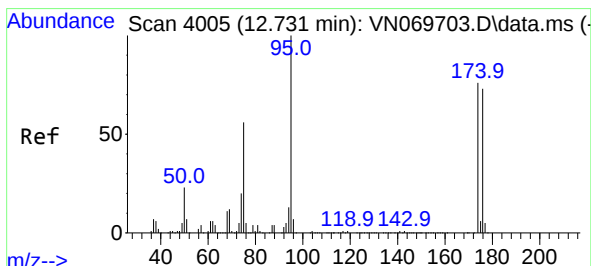
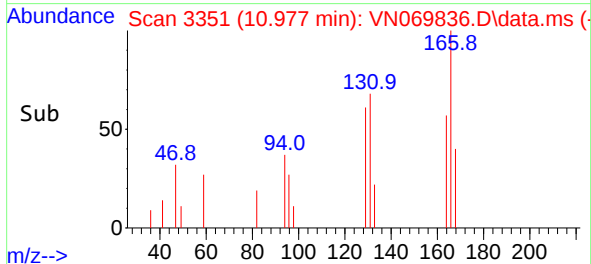
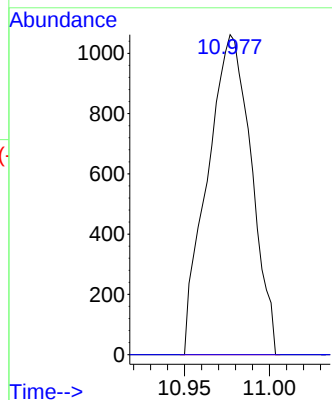
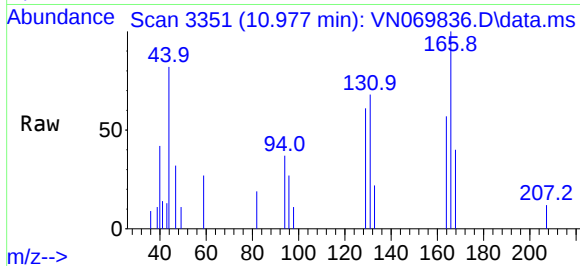




#60
Dibromochloromethane
Concen: 2.48 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

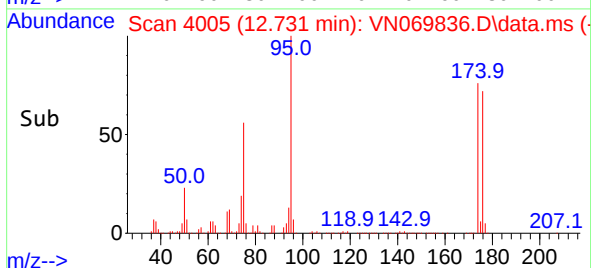
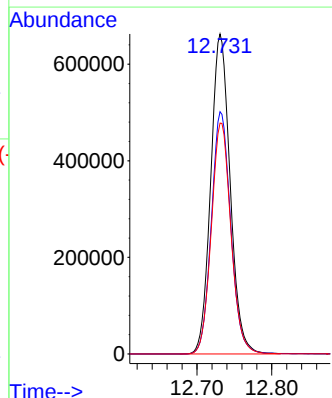
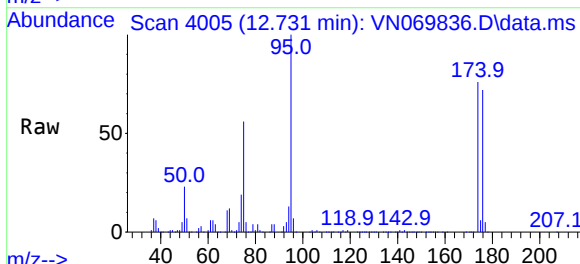
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

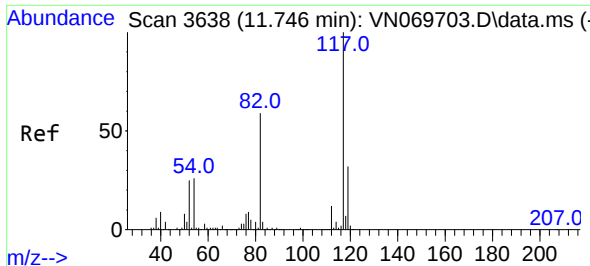
Tgt Ion:129 Resp: 1907
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 54.87 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion: 95 Resp: 1192642
Ion Ratio Lower Upper
95 100
174 75.8 0.0 187.2
176 73.2 0.0 181.4

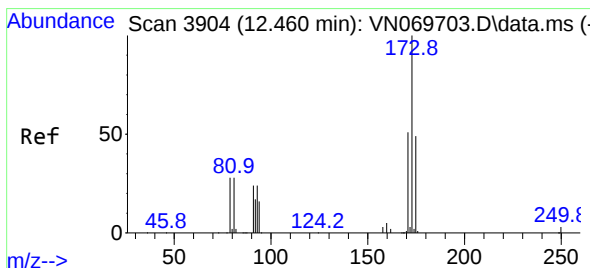
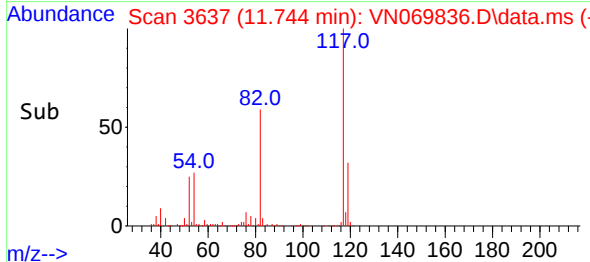
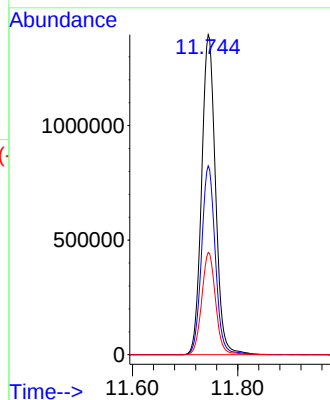
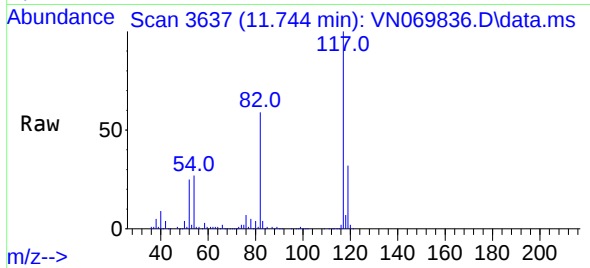




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.744 min Scan# 3097
Delta R.T. -0.002 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

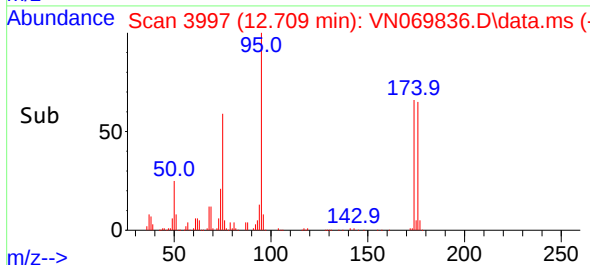
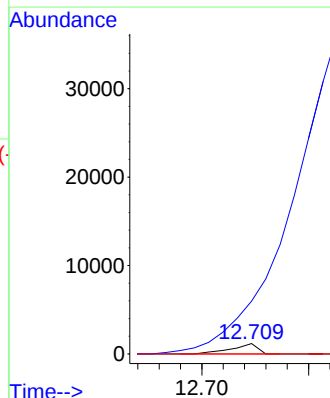
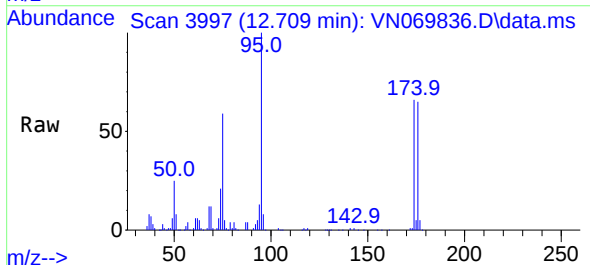
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

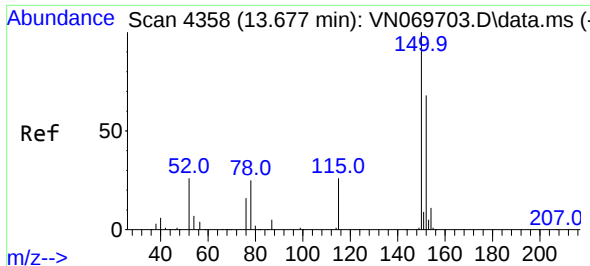
Tgt Ion:117 Resp: 2554101
Ion Ratio Lower Upper
117 100
82 59.0 42.4 63.6
119 32.0 25.4 38.2



#71
Bromoform
Concen: 2.75 ug/l
RT: 12.709 min Scan# 3997
Delta R.T. 0.249 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion:173 Resp: 395
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0

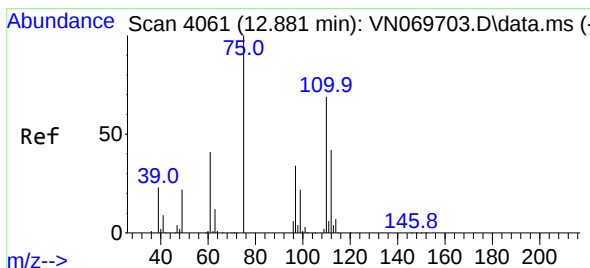
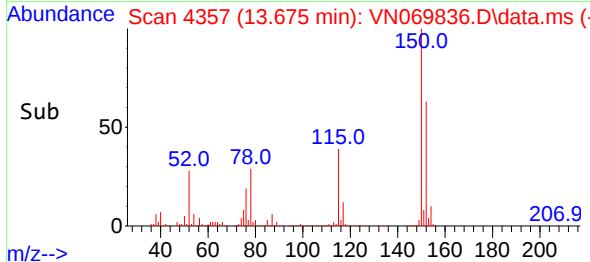
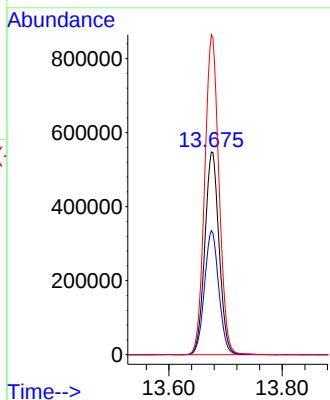
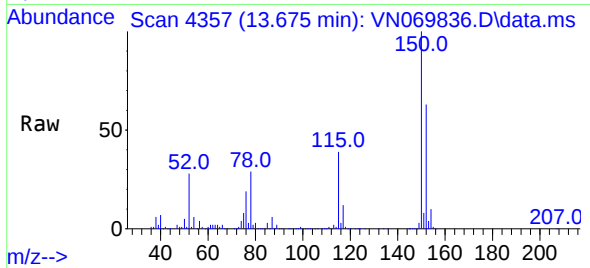




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.003 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

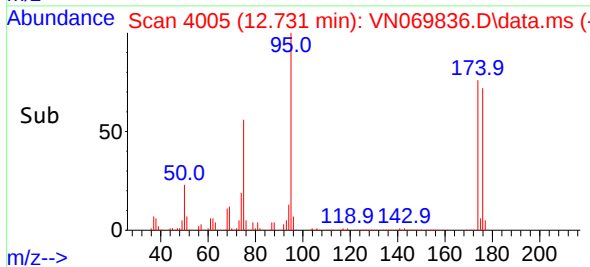
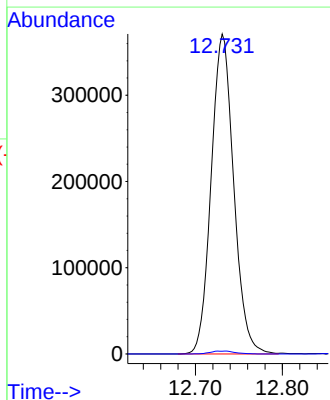
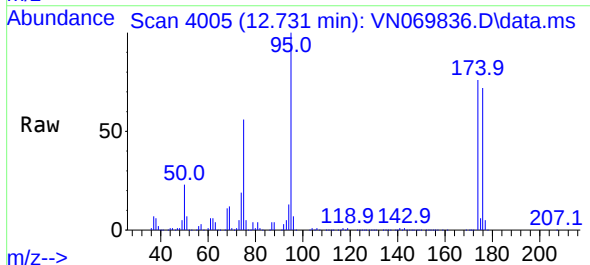
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

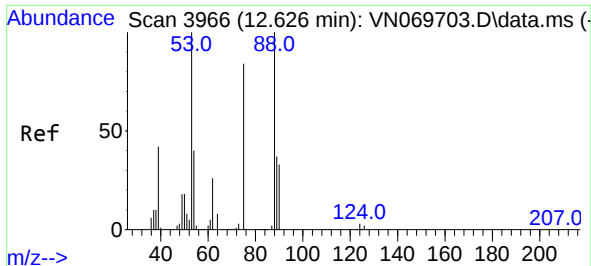
Tgt Ion:152 Resp: 955367
Ion Ratio Lower Upper
152 100
115 61.4 27.5 82.5
150 158.5 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 24.36 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

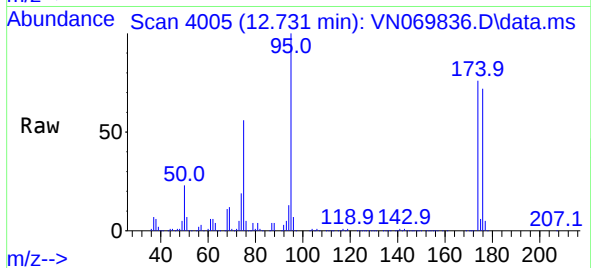
Tgt Ion: 75 Resp: 667425
Ion Ratio Lower Upper
75 100
77 0.5 82.6 247.8#



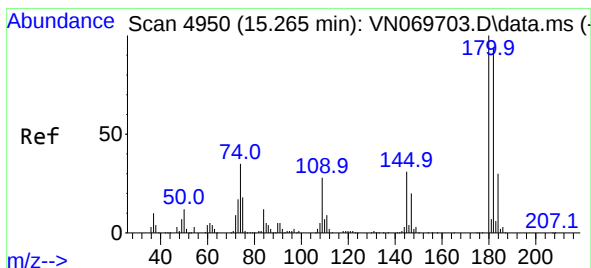
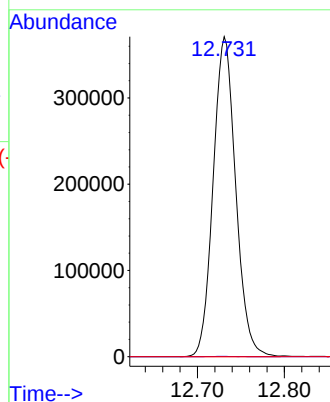
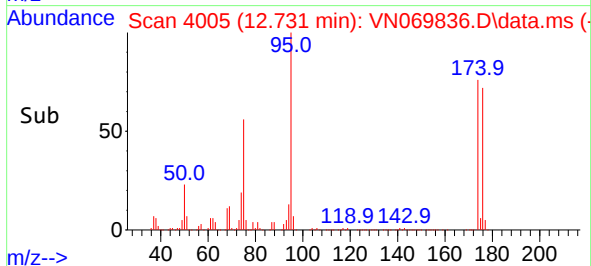


#81
trans-1,4-Dichloro-2-butene
Concen: 77.31 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

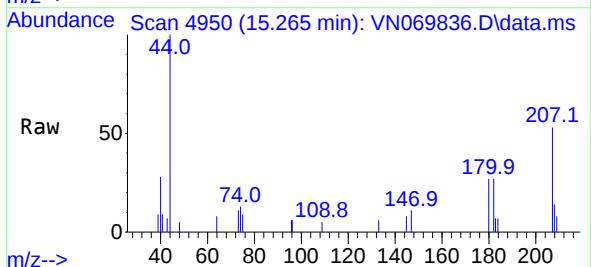
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206



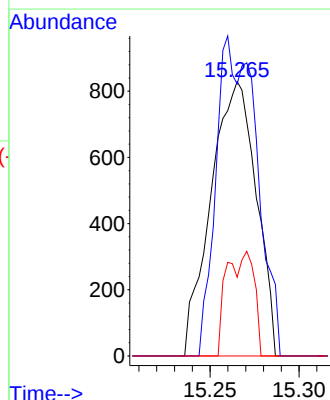
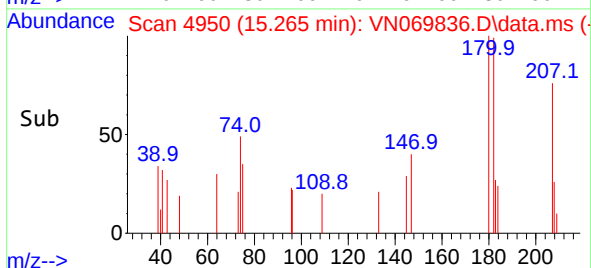
Tgt Ion: 75 Resp: 667425
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

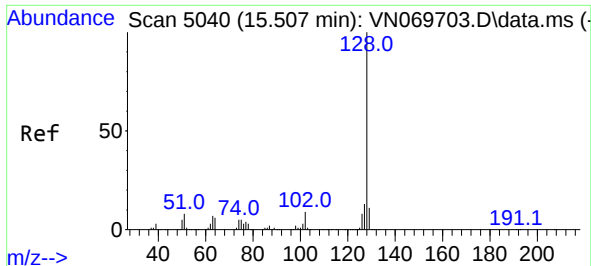


#93
1,2,4-Trichlorobenzene
Concen: 2.97 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34



Tgt Ion: 180 Resp: 1470
Ion Ratio Lower Upper
180 100
182 55.1 48.3 144.9
145 11.2 14.5 43.5#

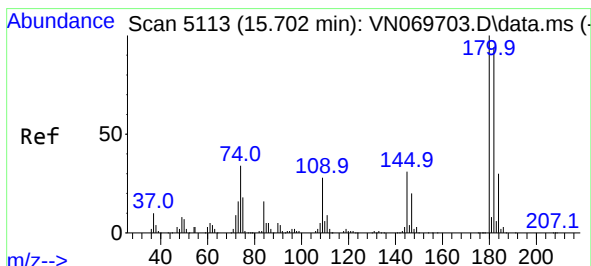
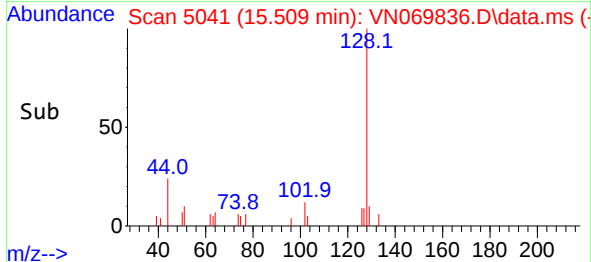
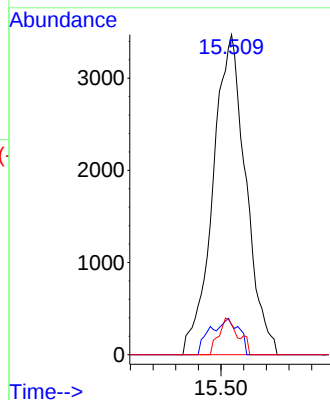
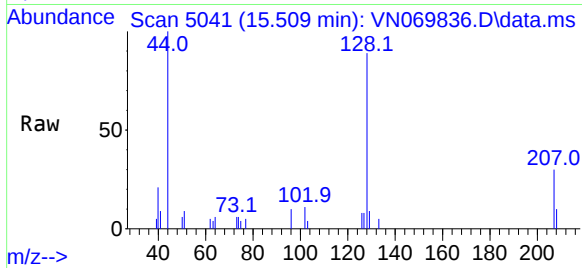




#95
Naphthalene
Concen: 4.12 ug/l
RT: 15.509 min Scan# 5040
Delta R.T. 0.002 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20211206

Tgt Ion:	128	Resp:	7002
Ion	Ratio	Lower	Upper
128	100		
127	6.4	10.5	15.7#
129	6.8	8.7	13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.55 ug/l
RT: 15.705 min Scan# 5114
Delta R.T. 0.003 min
Lab File: VN069836.D
Acq: 8 Dec 2021 1:34

Tgt Ion:	180	Resp:	1892
Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.4	142.2
145	25.7	15.0	45.1

