

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091721\
 Data File : VN068532.D
 Acq On : 17 Sep 2021 20:22
 Operator : JC/MD
 Sample : M3781-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D3-20210916

Quant Time: Sep 20 04:01:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090721W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 17 11:02:11 2021
 Response via : Initial Calibration

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

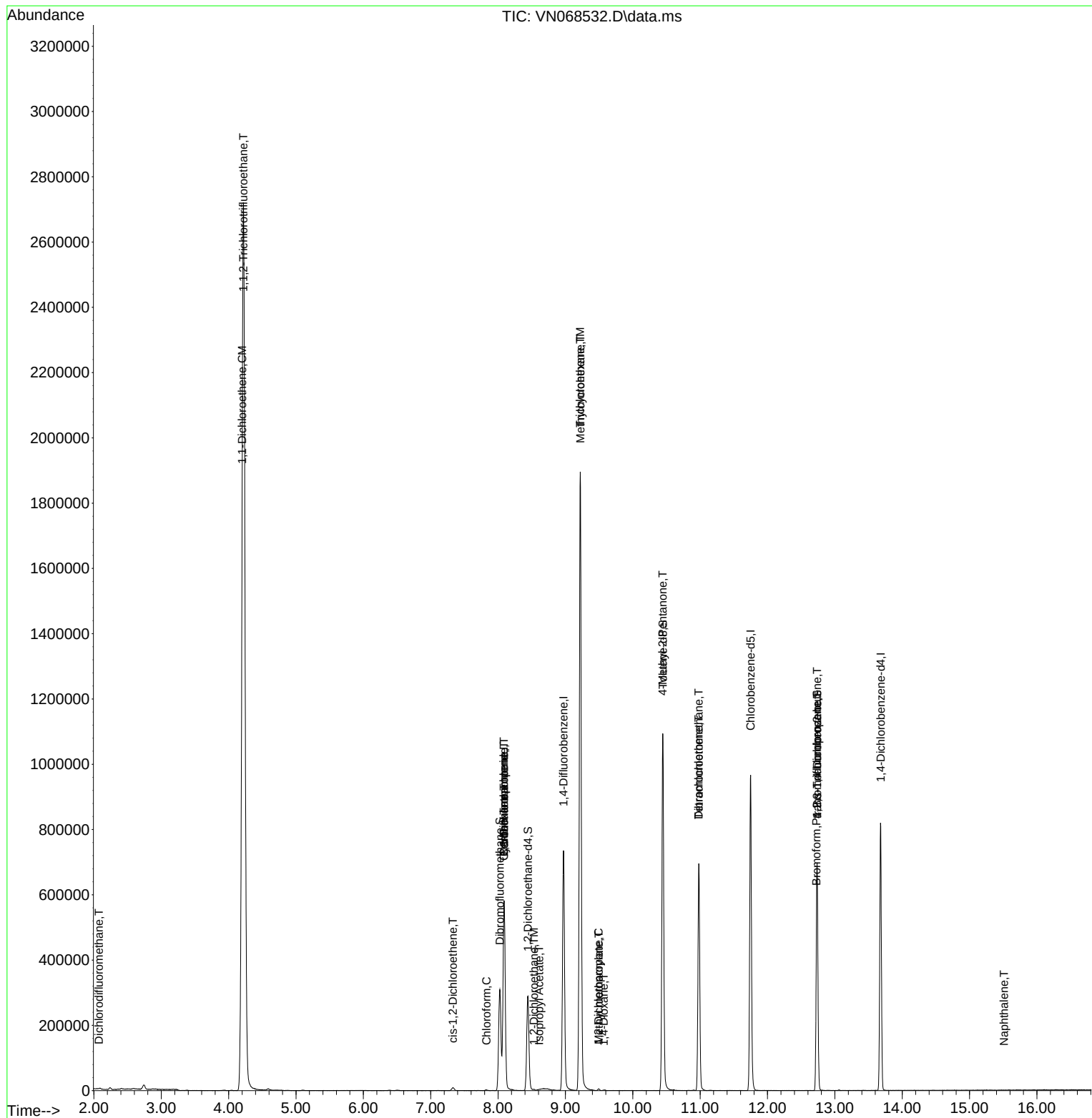
Internal Standards						
1) Pentafluorobenzene	8.088	168	507821	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	738206	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	628531	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.680	152	245727	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.442	65	244185	52.420	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.840%			
35) Dibromofluoromethane	8.026	113	233279	52.395	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 104.780%			
50) Toluene-d8	10.446	98	846033	46.593	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 93.180%			
62) 4-Bromofluorobenzene	12.736	95	237853	40.386	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 80.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	842	0.203	ug/l	93
3) Chloromethane	2.303	50	658	Below Cal	#	61
5) Bromomethane	2.856	94	219	Below Cal	#	3
9) 1,1,2-Trichlorotrifluo...	4.218	101	1788251	410.339	ug/l	97
12) 1,1-Dichloroethene	4.199	96	12885	3.230	ug/l	# 79
16) Acetone	4.307	43	2823	Below Cal		95
18) Methyl Acetate	4.846	43	173	Below Cal	#	45
20) Methylene Chloride	5.090	84	607	Below Cal	#	82
27) cis-1,2-Dichloroethene	7.329	96	6291	1.176	ug/l	88
30) Chloroform	7.828	83	2692	0.306	ug/l	97
31) Cyclohexane	8.085	56	8355	1.184	ug/l	# 22
36) 1,1-Dichloropropene	8.088	75	30180	4.904	ug/l	# 47
38) Carbon Tetrachloride	8.088	117	46055	6.246	ug/l	# 16
39) Methylcyclohexane	9.223	83	7612	0.978	ug/l	# 1
42) 1,2-Dichloroethane	8.533	62	2086	0.330	ug/l	# 73
43) Isopropyl Acetate	8.611	43	2351	0.285	ug/l	# 51
44) Trichloroethene	9.220	130	750937	130.190	ug/l	99
45) 1,2-Dichloropropane	9.494	63	2116	0.487	ug/l	99
48) Methyl methacrylate	9.496	41	1393	0.404	ug/l	# 35
49) 1,4-Dioxane	9.569	88	878	11.097	ug/l	# 56
51) 4-Methyl-2-Pentanone	10.443	43	2842	0.603	ug/l	# 1
60) Dibromochloromethane	10.979	129	153194	24.271	ug/l	# 11
64) Tetrachloroethene	10.979	164	178076	31.966	ug/l	99
71) Bromoform	12.725	173	876	2.700	ug/l	# 1
76) 1,2,3-Trichloropropane	12.736	75	116882	34.243	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.736	75	116882	105.415	ug/l	# 13
95) Naphthalene	15.512	128	269	3.522	ug/l	# 69

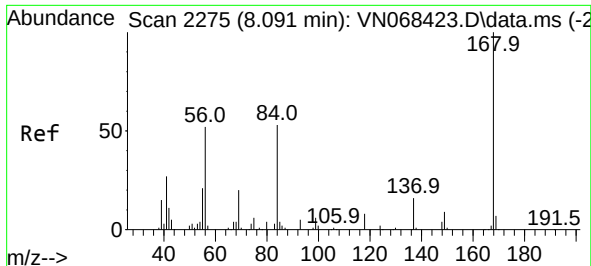
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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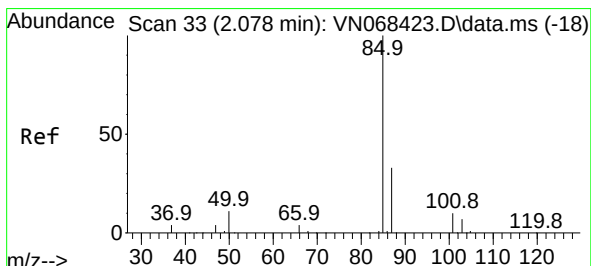
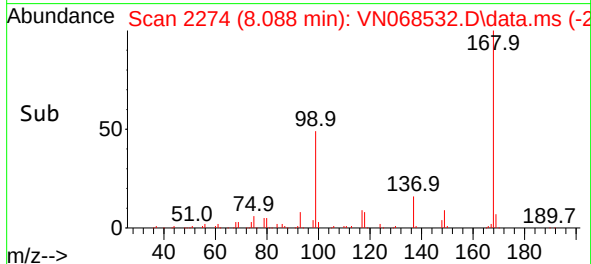
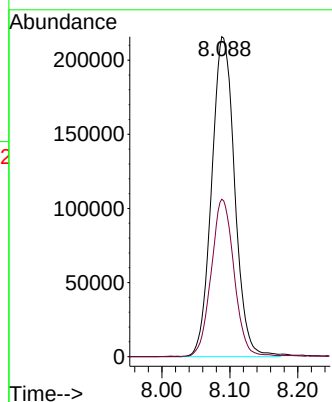
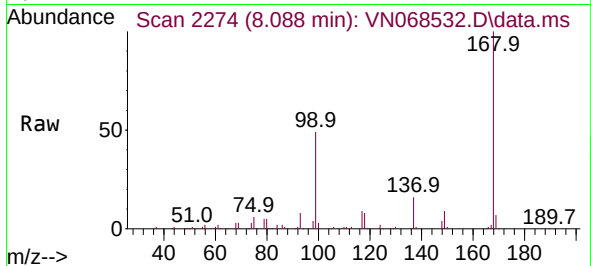




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.003 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

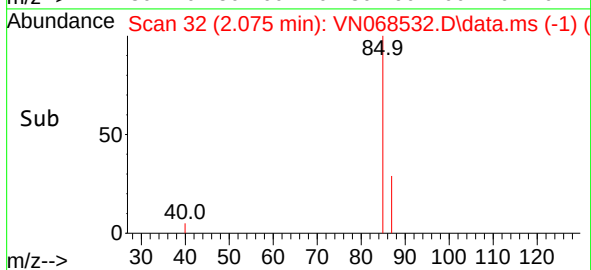
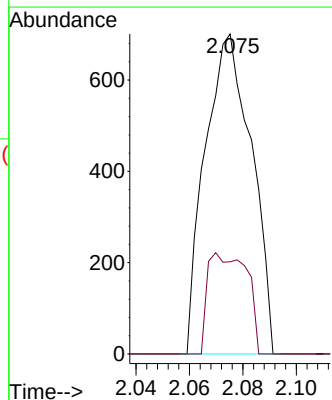
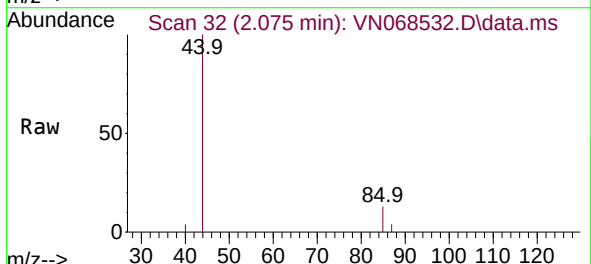
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

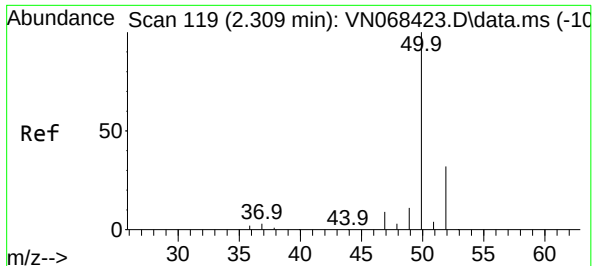
Tgt Ion:168 Resp: 507821
Ion Ratio Lower Upper
168 100
99 49.1 38.2 57.4



#2
Dichlorodifluoromethane
Concen: 0.203 ug/l
RT: 2.075 min Scan# 32
Delta R.T. -0.003 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 85 Resp: 842
Ion Ratio Lower Upper
85 100
87 28.8 16.5 49.5

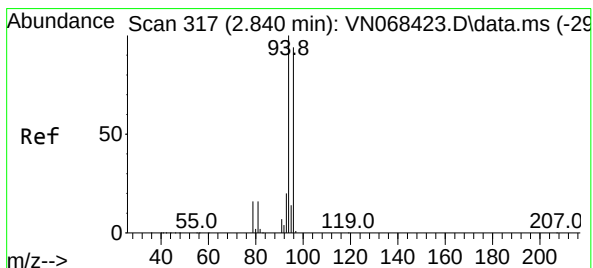
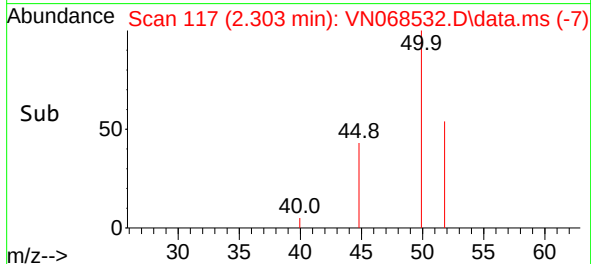
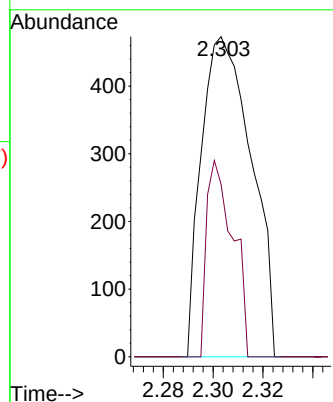
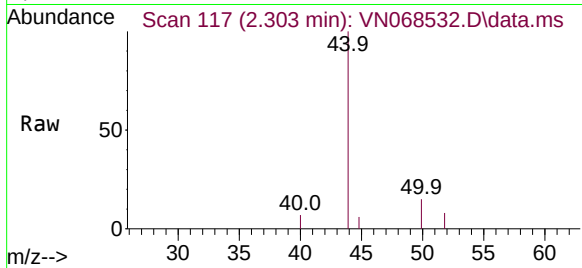




#3
Chloromethane
Concen: Below Cal
RT: 2.303 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

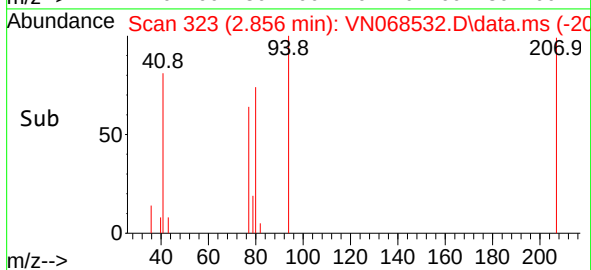
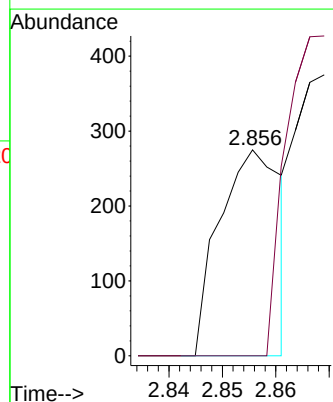
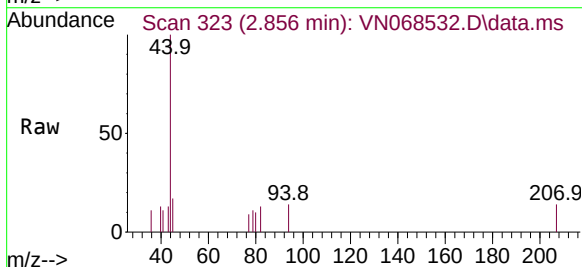
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

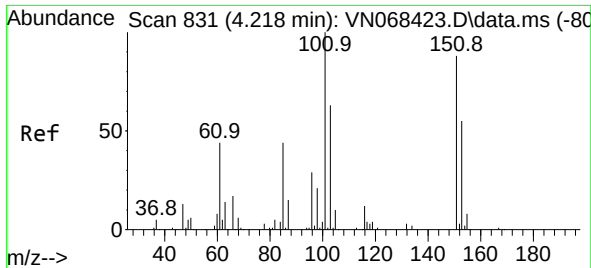
Tgt Ion: 50 Resp: 658
Ion Ratio Lower Upper
50 100
52 53.9 25.8 38.6#



#5
Bromomethane
Concen: Below Cal
RT: 2.856 min Scan# 323
Delta R.T. 0.016 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 94 Resp: 219
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.0#

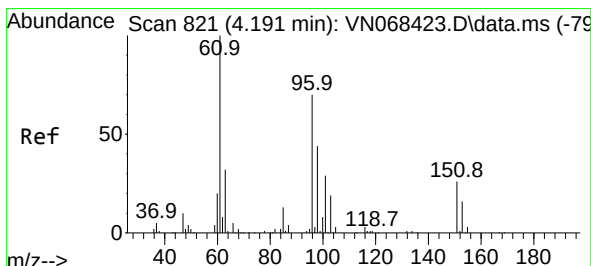
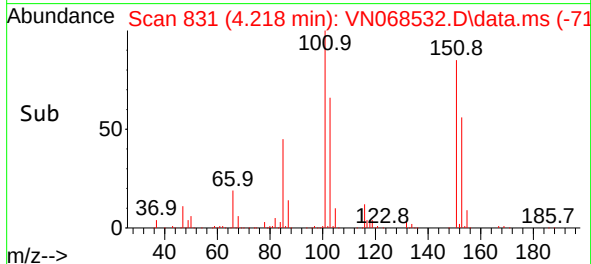
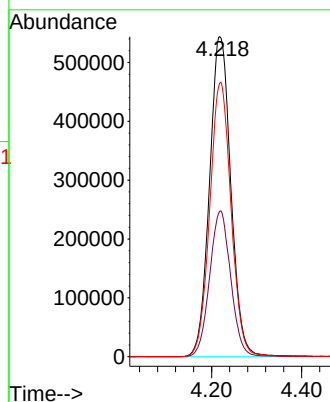
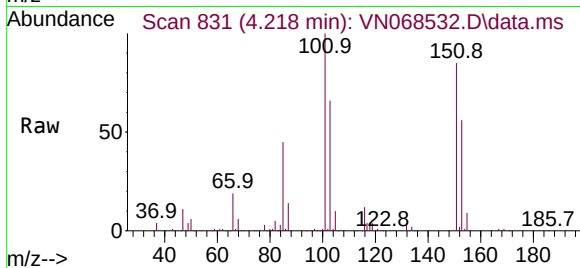




#9
1,1,2-Trichlorotrifluoroethane
Concen: 410.339 ug/l
RT: 4.218 min Scan# 831
Delta R.T. 0.000 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

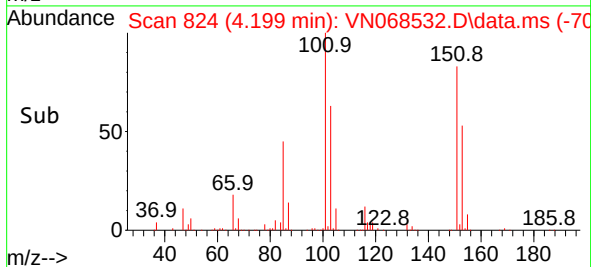
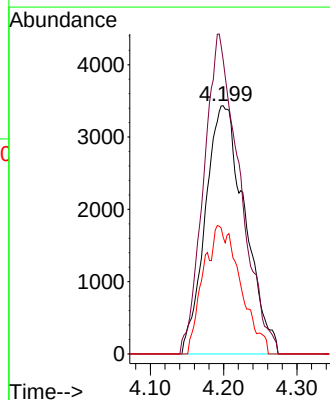
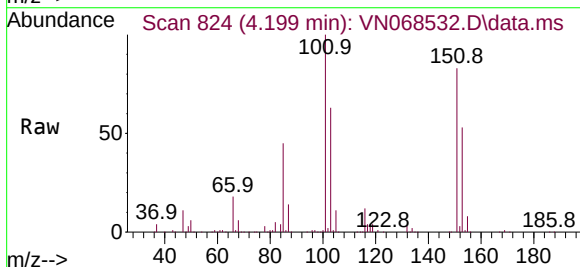
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

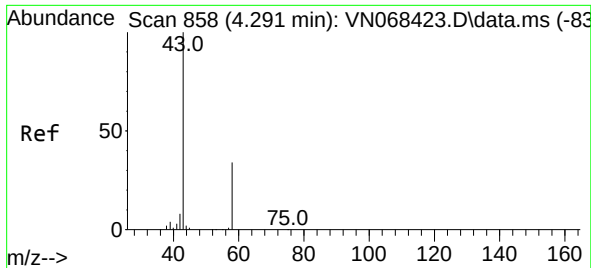
Tgt Ion:101 Resp: 1788251
Ion Ratio Lower Upper
101 100
85 45.0 35.7 53.5
151 85.7 71.6 107.4



#12
1,1-Dichloroethene
Concen: 3.230 ug/l
RT: 4.199 min Scan# 824
Delta R.T. 0.008 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 96 Resp: 12885
Ion Ratio Lower Upper
96 100
61 118.2 114.7 172.1
98 46.9 50.9 76.3#

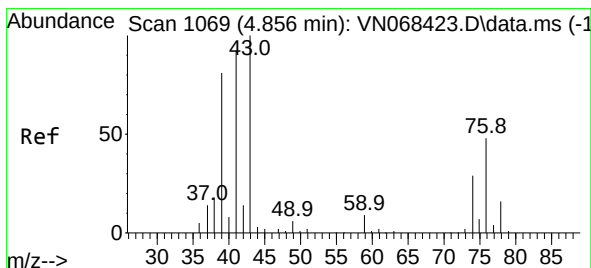
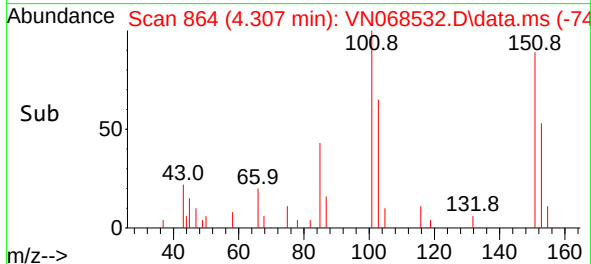
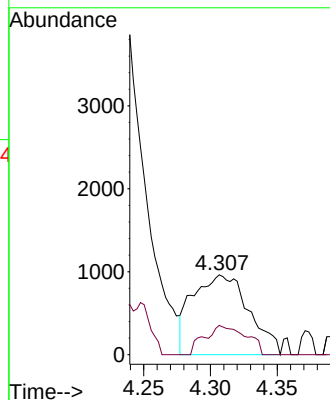
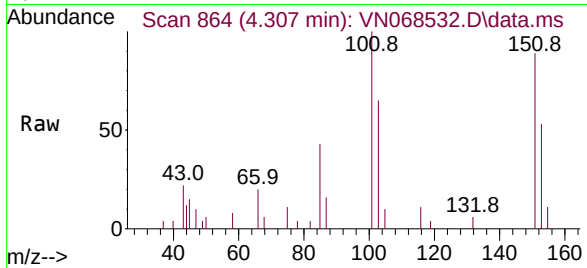




#16
Acetone
Concen: Below Cal
RT: 4.307 min Scan# 864
Delta R.T. 0.016 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

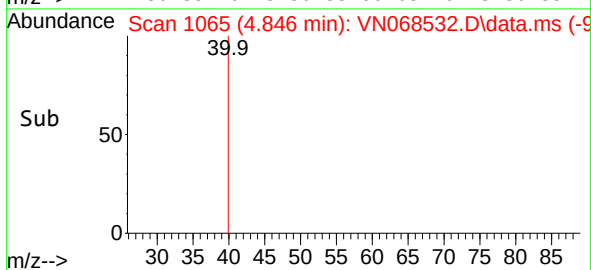
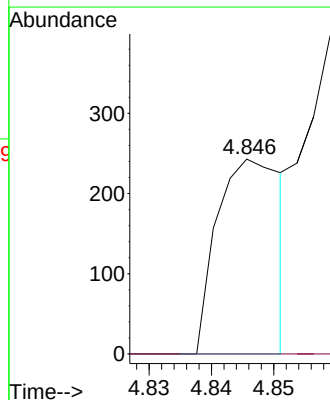
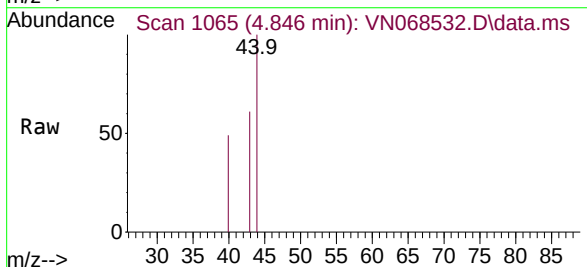
Instrument :
MSVOA_N
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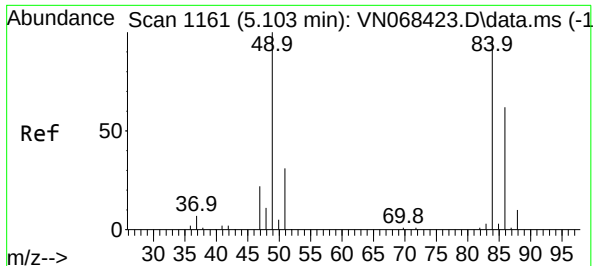
Tgt Ion: 43 Resp: 2823
Ion Ratio Lower Upper
43 100
58 36.7 27.0 40.6



#18
Methyl Acetate
Concen: Below Cal
RT: 4.846 min Scan# 1065
Delta R.T. -0.010 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 43 Resp: 173
Ion Ratio Lower Upper
43 100
74 0.0 23.5 35.3#



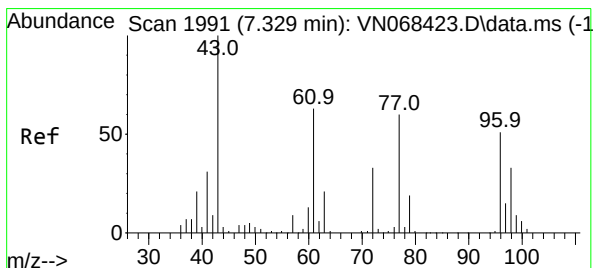
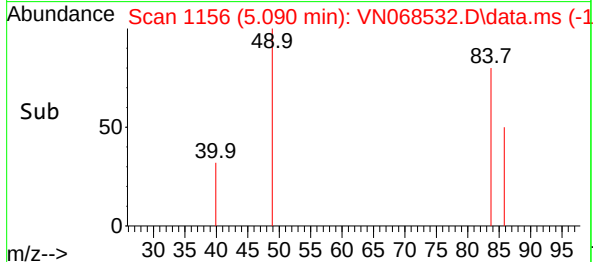
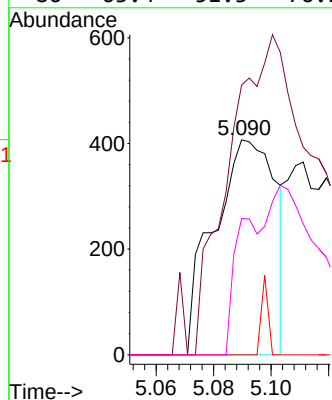
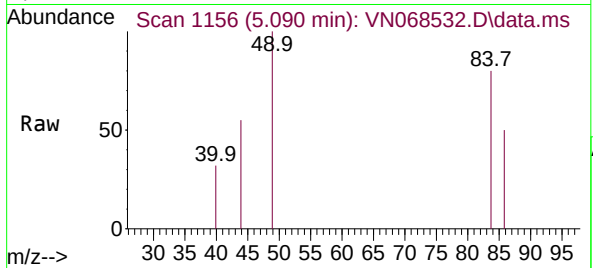


#20
Methylene Chloride
Concen: Below Cal
RT: 5.090 min Scan# 1156
Delta R.T. -0.013 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

Tgt Ion: 84 Resp: 607

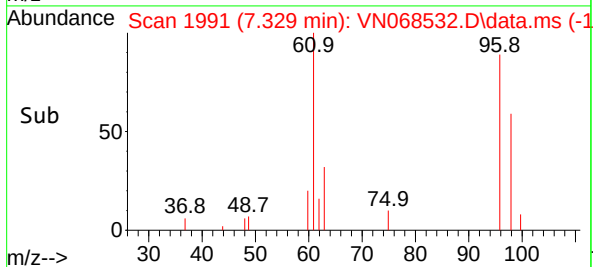
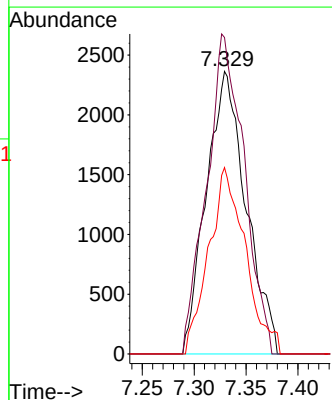
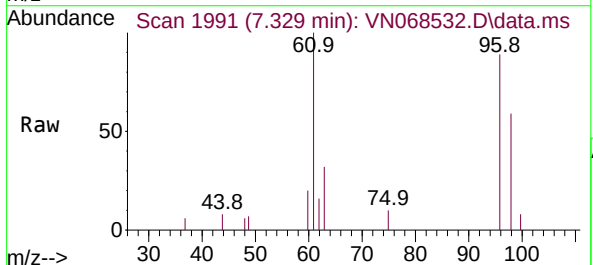
Ion	Ratio	Lower	Upper
84	100		
49	87.2	83.0	124.6
51	0.0	25.4	38.0#
86	63.4	51.3	76.9

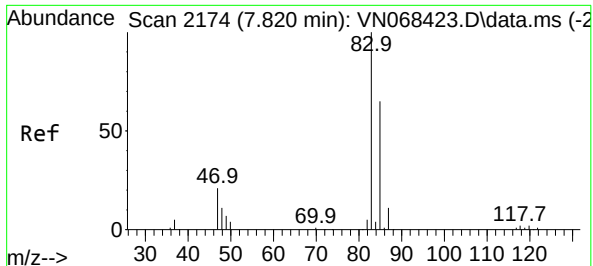


#27
cis-1,2-Dichloroethene
Concen: 1.176 ug/l
RT: 7.329 min Scan# 1991
Delta R.T. 0.000 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 96 Resp: 6291

Ion	Ratio	Lower	Upper
96	100		
61	106.6	0.0	246.4
98	60.7	0.0	130.4





#30

Chloroform

Concen: 0.306 ug/l

RT: 7.828 min Scan# 2177

Delta R.T. 0.008 min

Lab File: VN068532.D

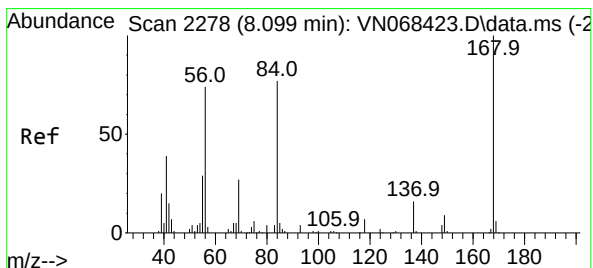
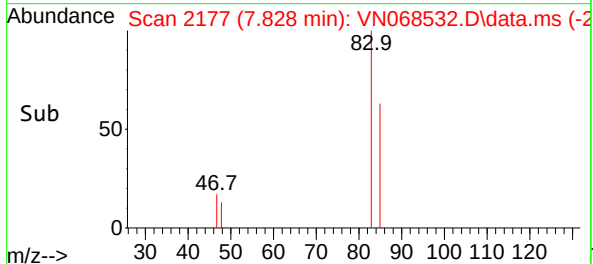
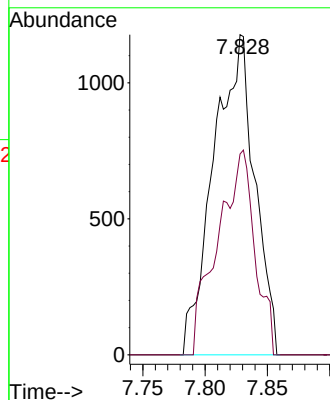
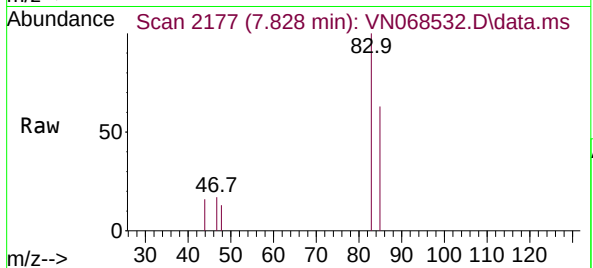
Acq: 17 Sep 2021 20:22

Tgt Ion: 83 Resp: 2692

Ion Ratio Lower Upper

83 100

85 62.7 52.2 78.4



#31

Cyclohexane

Concen: 1.184 ug/l

RT: 8.085 min Scan# 2273

Delta R.T. -0.014 min

Lab File: VN068532.D

Acq: 17 Sep 2021 20:22

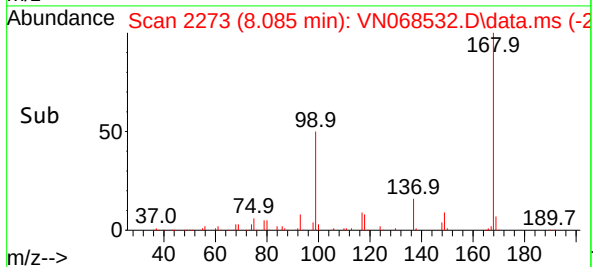
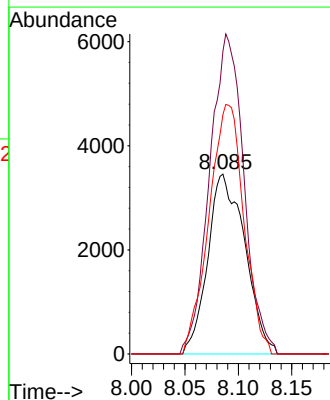
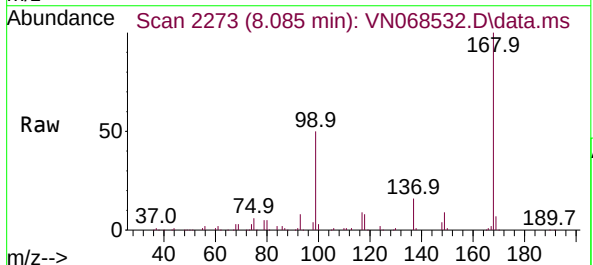
Tgt Ion: 56 Resp: 8355

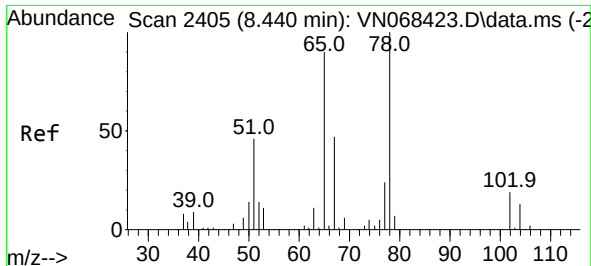
Ion Ratio Lower Upper

56 100

69 168.3 29.4 44.0#

84 133.1 83.6 125.4#



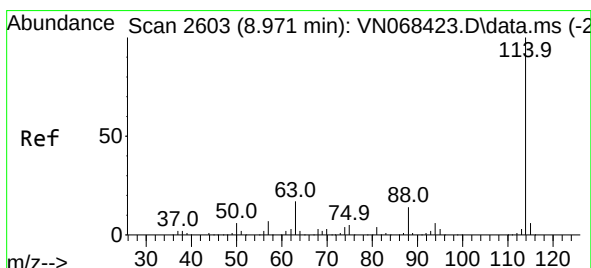
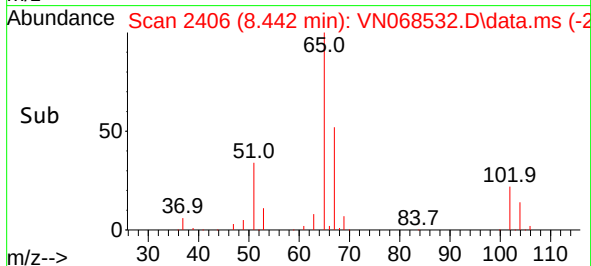
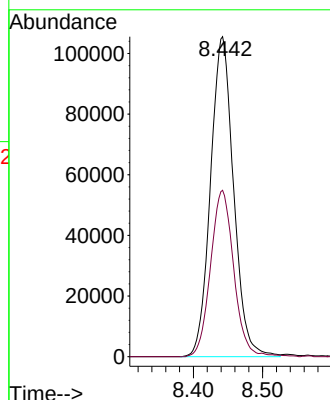
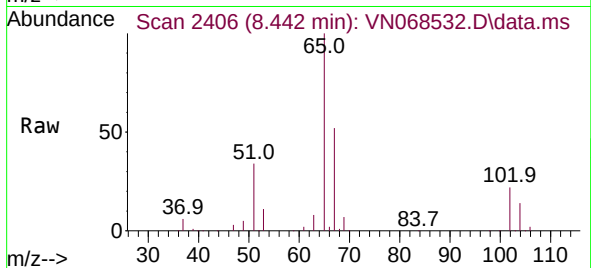


#33

1,2-Dichloroethane-d4
Concen: 52.420 ug/l
RT: 8.442 min Scan# 2406
Delta R.T. 0.002 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

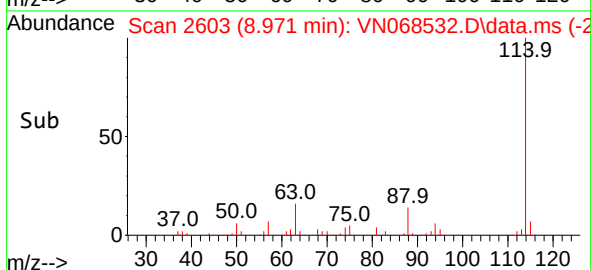
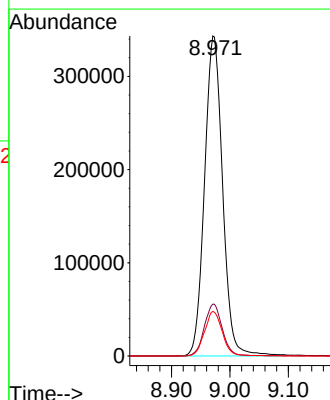
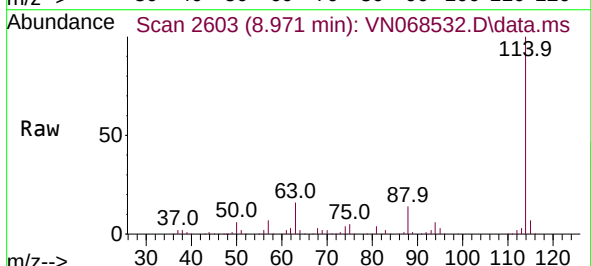
Tgt Ion: 65 Resp: 244185
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.0

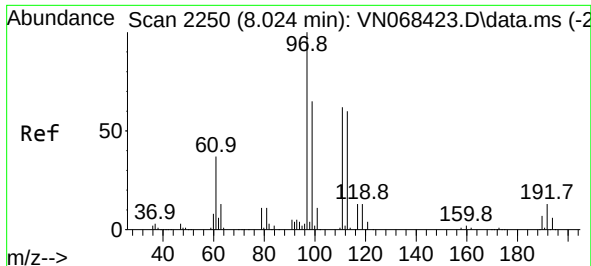


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. -0.000 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 114 Resp: 738206
Ion Ratio Lower Upper
114 100
63 16.2 0.0 33.2
88 13.9 0.0 28.4

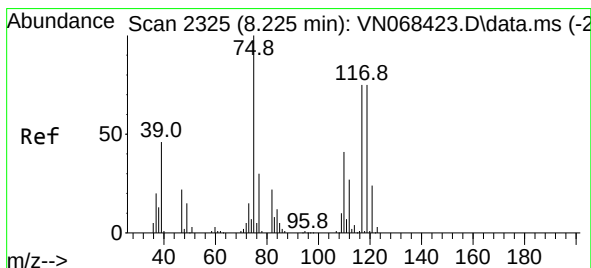
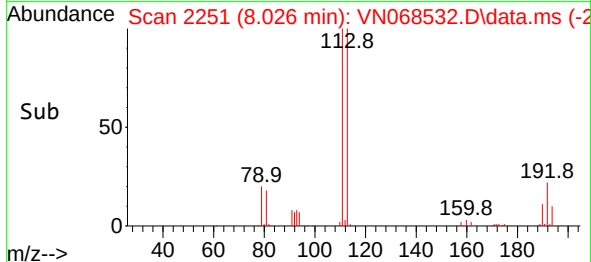
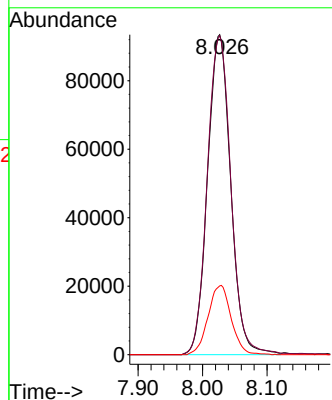
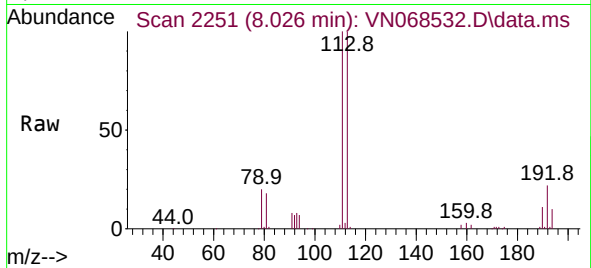




#35
Dibromofluoromethane
Concen: 52.395 ug/l
RT: 8.026 min Scan# 2251
Delta R.T. 0.002 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

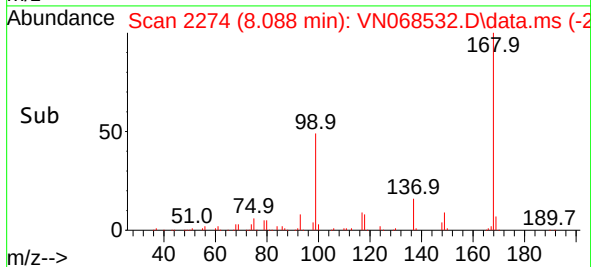
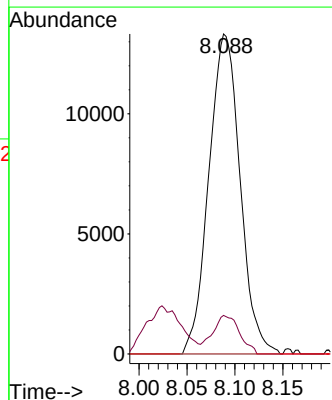
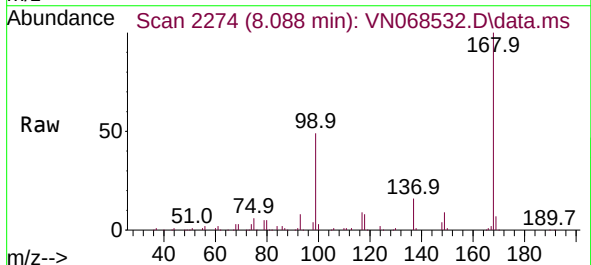
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

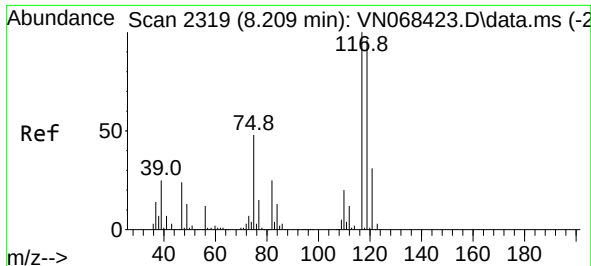
Tgt Ion:113 Resp: 233279
Ion Ratio Lower Upper
113 100
111 101.8 81.1 121.7
192 21.7 17.7 26.5



#36
1,1-Dichloropropene
Concen: 4.904 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.137 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 75 Resp: 30180
Ion Ratio Lower Upper
75 100
110 10.4 20.8 62.5#
77 0.0 25.0 37.6#

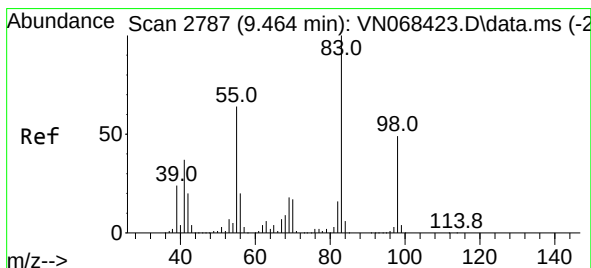
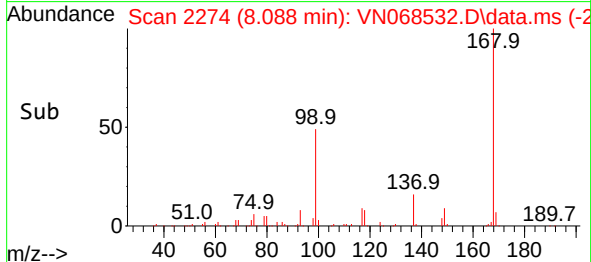
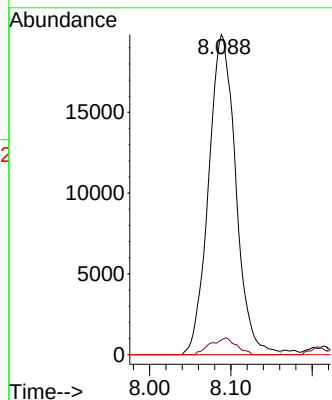
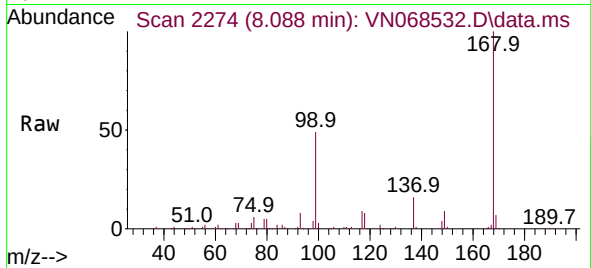




#38
Carbon Tetrachloride
Concen: 6.246 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

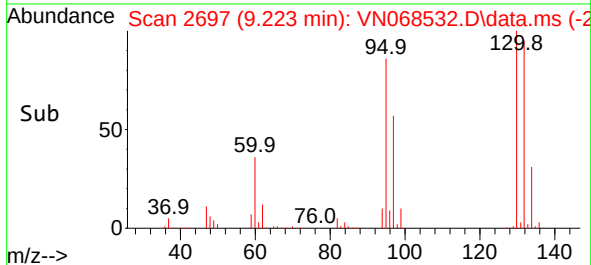
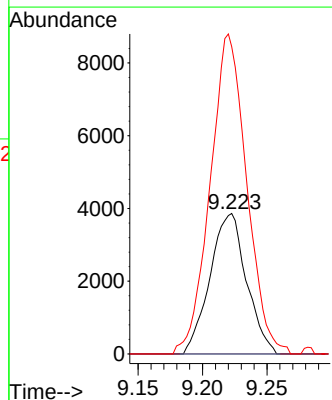
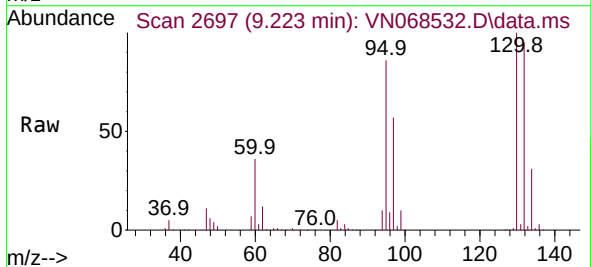
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

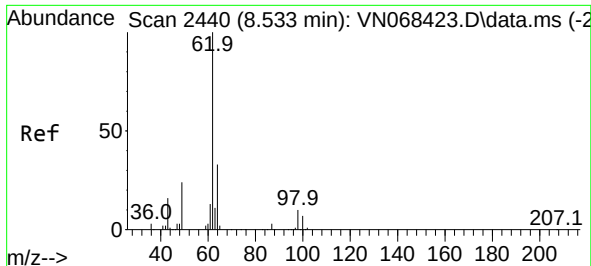
Tgt Ion: 117 Resp: 46055
Ion Ratio Lower Upper
117 100
119 4.6 76.6 114.8#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 0.978 ug/l
RT: 9.223 min Scan# 2697
Delta R.T. -0.241 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 83 Resp: 7612
Ion Ratio Lower Upper
83 100
55 0.0 51.0 76.4#
98 212.8 39.5 59.3#





#42

1,2-Dichloroethane

Concen: 0.330 ug/l

RT: 8.533 min Scan# 2440

Delta R.T. 0.000 min

Lab File: VN068532.D

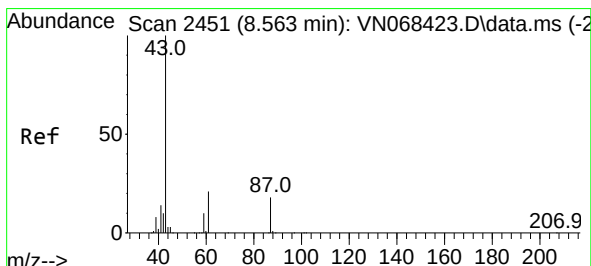
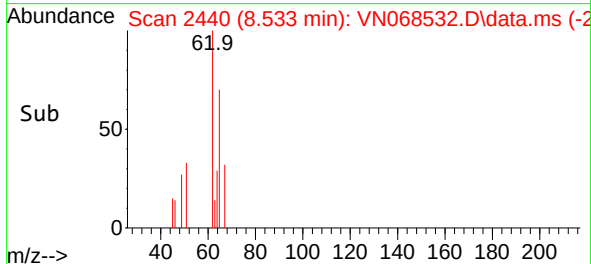
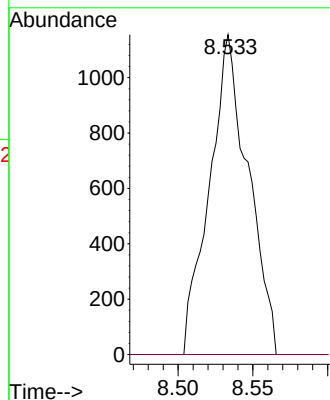
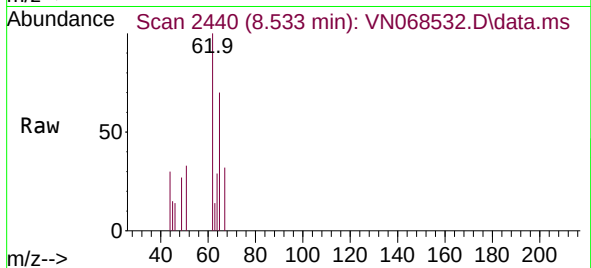
Acq: 17 Sep 2021 20:22

Tgt Ion: 62 Resp: 2086

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#43

Isopropyl Acetate

Concen: 0.285 ug/l

RT: 8.611 min Scan# 2469

Delta R.T. 0.048 min

Lab File: VN068532.D

Acq: 17 Sep 2021 20:22

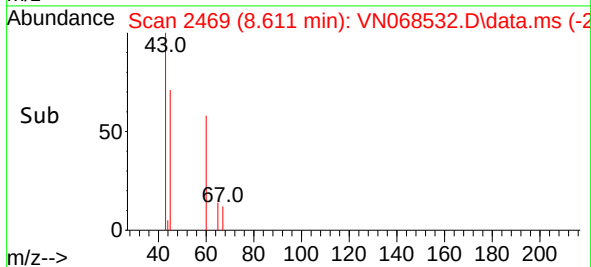
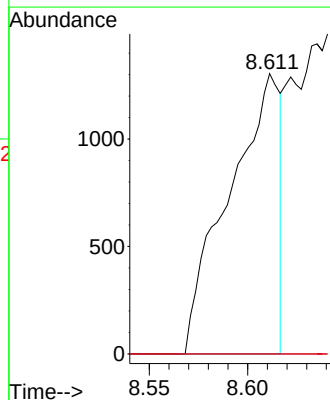
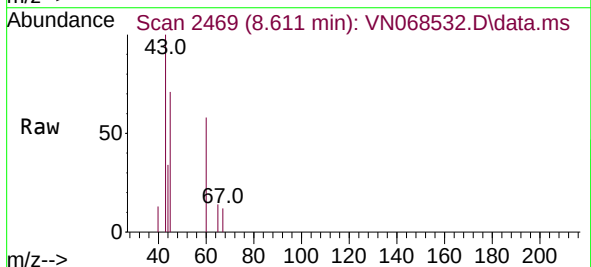
Tgt Ion: 43 Resp: 2351

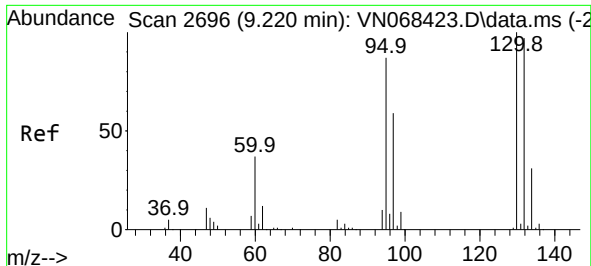
Ion Ratio Lower Upper

43 100

61 0.0 23.3 34.9#

87 0.0 13.8 20.6#

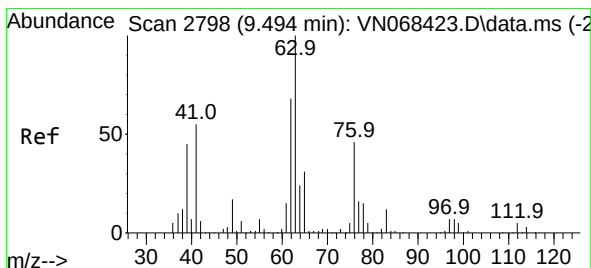
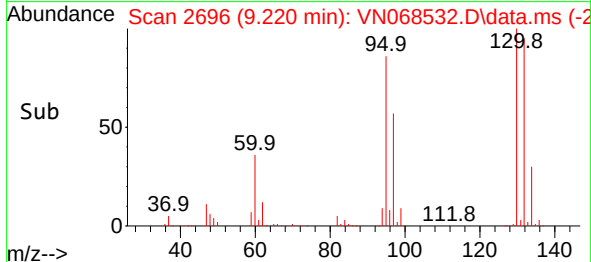
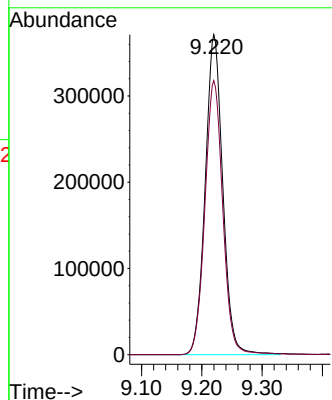
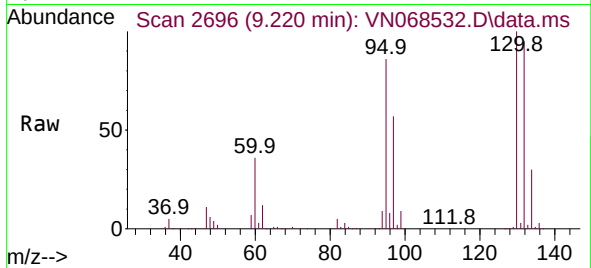




#44
Trichloroethene
Concen: 130.190 ug/l
RT: 9.220 min Scan# 2696
Delta R.T. -0.000 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

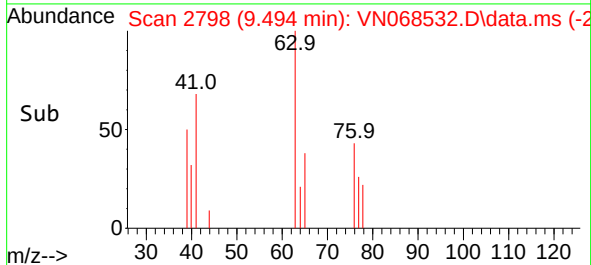
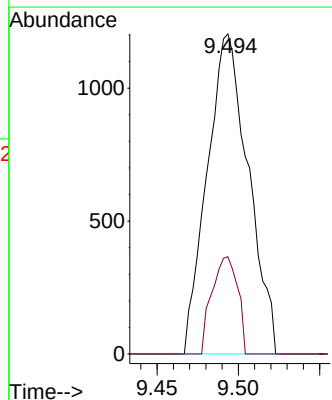
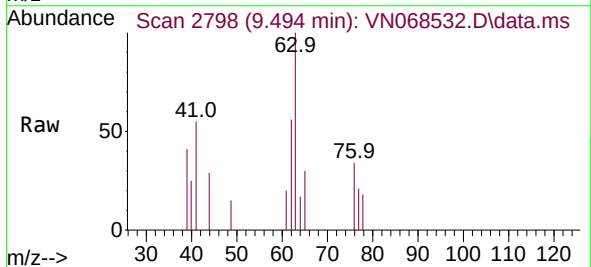
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

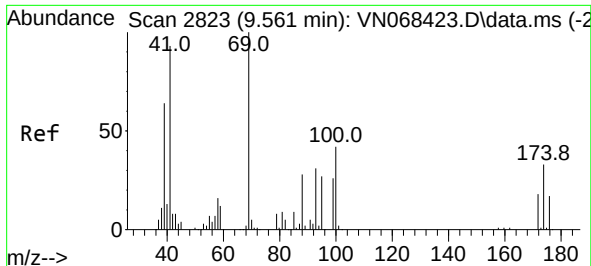
Tgt Ion:130 Resp: 750937
Ion Ratio Lower Upper
130 100
95 85.6 0.0 173.8



#45
1,2-Dichloropropane
Concen: 0.487 ug/l
RT: 9.494 min Scan# 2798
Delta R.T. -0.000 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 63 Resp: 2116
Ion Ratio Lower Upper
63 100
65 30.4 24.8 37.2

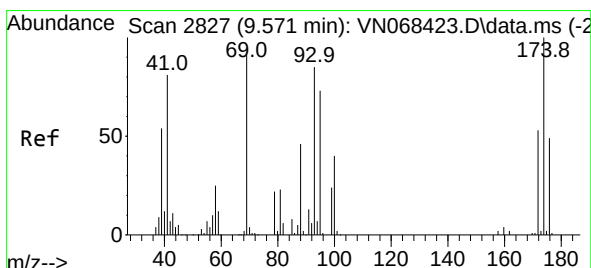
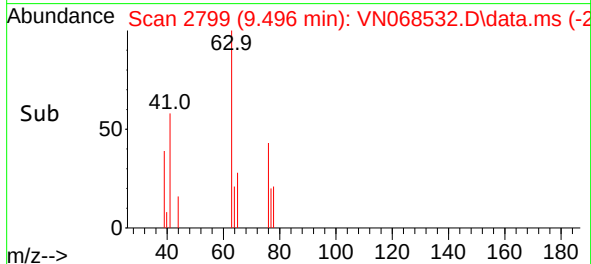
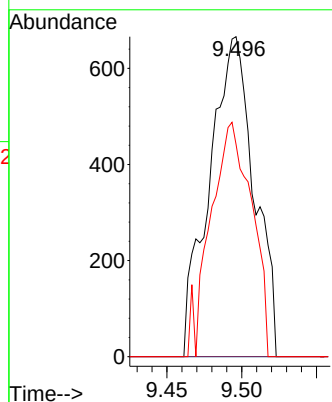
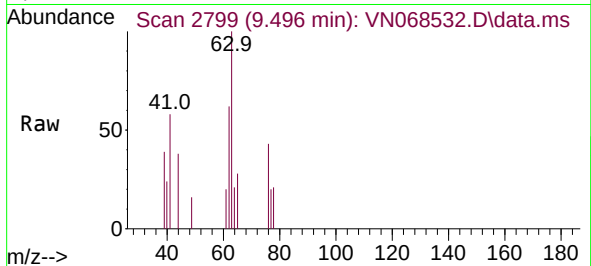




#48
Methyl methacrylate
Concen: 0.404 ug/l
RT: 9.496 min Scan# 2799
Delta R.T. -0.065 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

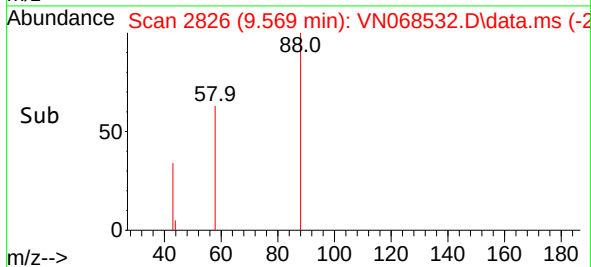
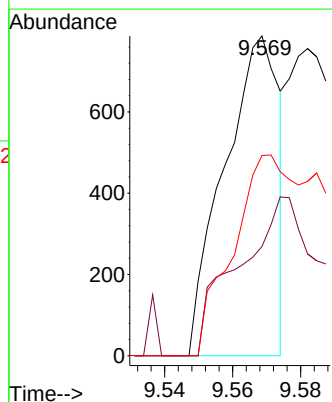
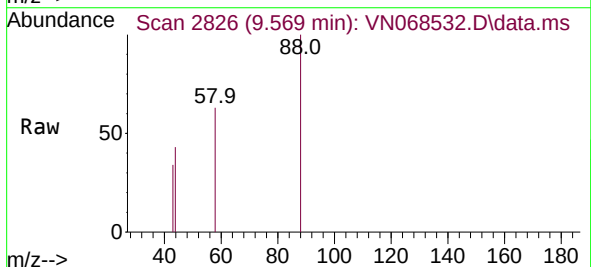
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

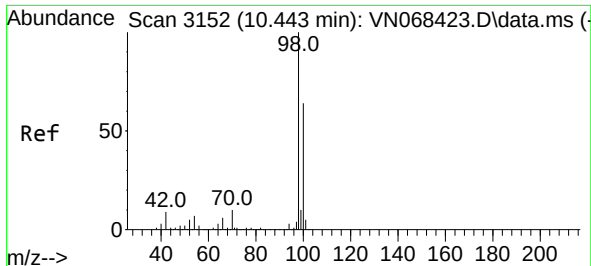
Tgt Ion: 41 Resp: 1393
Ion Ratio Lower Upper
41 100
69 0.0 82.9 124.3#
39 66.9 50.3 75.5



#49
1,4-Dioxane
Concen: 11.097 ug/l
RT: 9.569 min Scan# 2826
Delta R.T. -0.002 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 88 Resp: 878
Ion Ratio Lower Upper
88 100
43 77.0 18.9 28.3#
58 71.4 46.6 69.8#

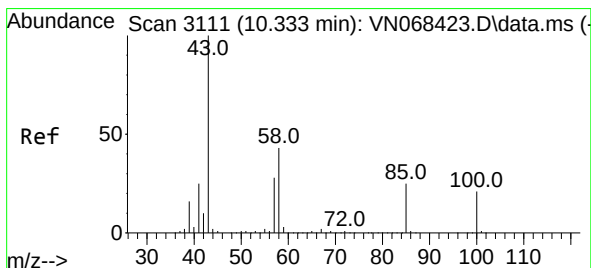
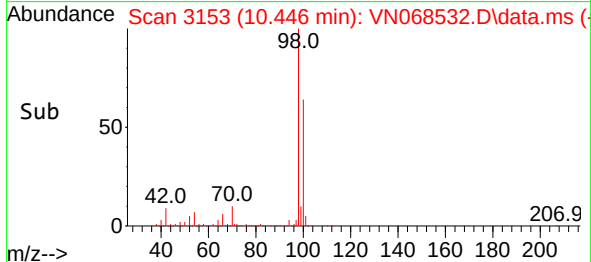
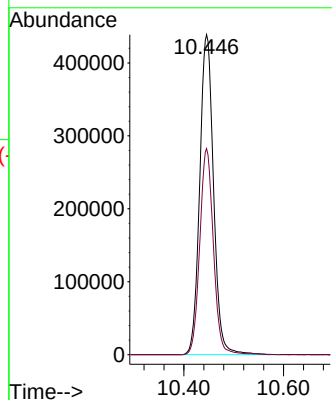
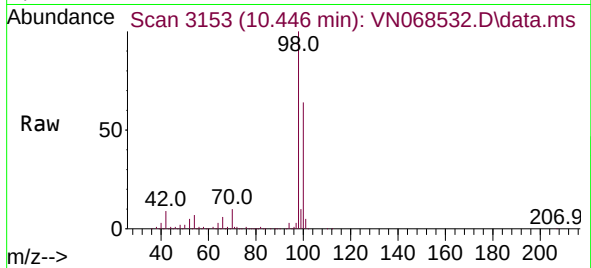




#50
Toluene-d8
Concen: 46.593 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

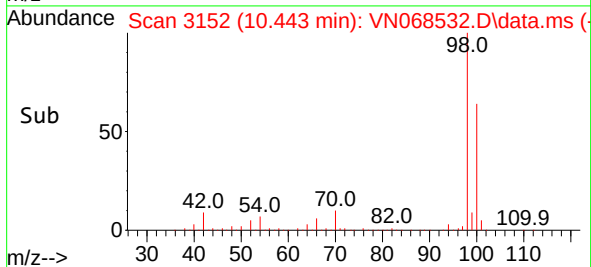
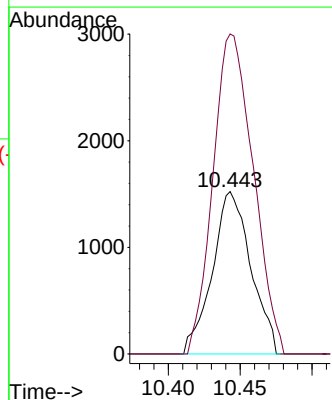
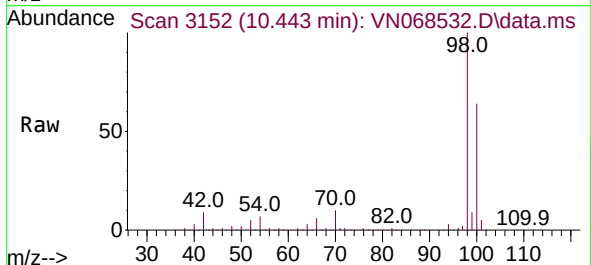
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

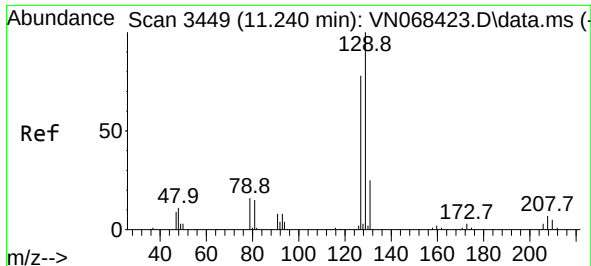
Tgt Ion: 98 Resp: 846033
Ion Ratio Lower Upper
98 100
100 63.6 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 0.603 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.110 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 43 Resp: 2842
Ion Ratio Lower Upper
43 100
58 205.8 34.3 51.5#

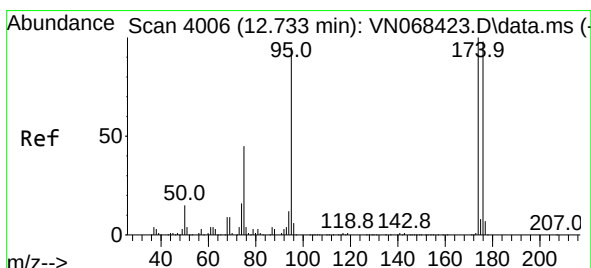
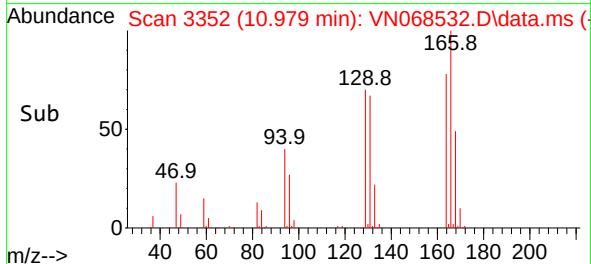
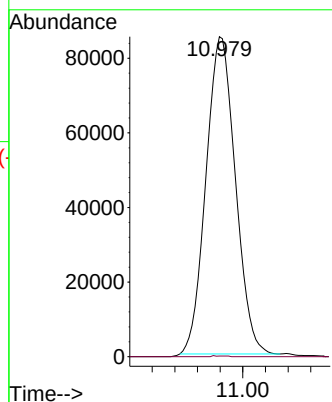
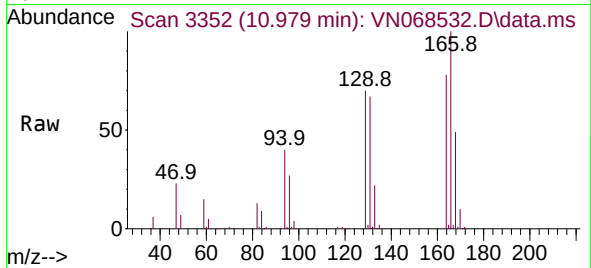




#60
Dibromochloromethane
Concen: 24.271 ug/l
RT: 10.979 min Scan# 3352
Delta R.T. -0.261 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

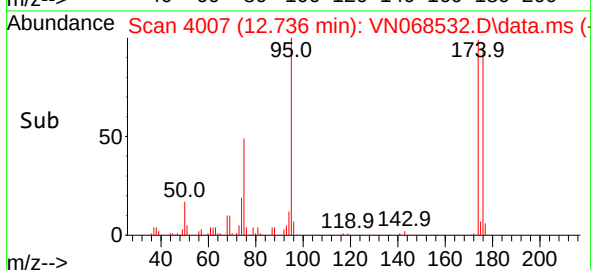
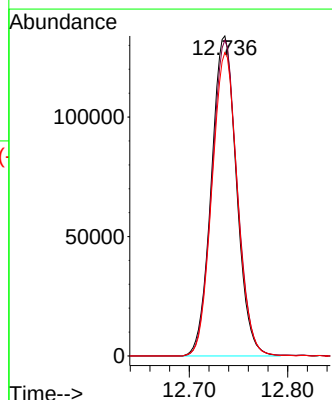
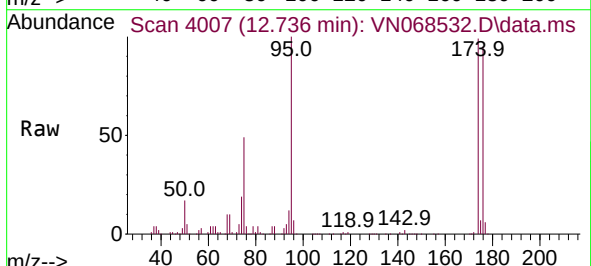
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

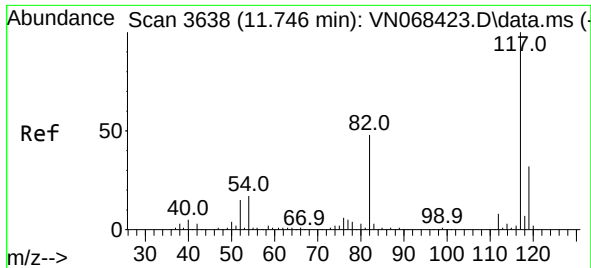
Tgt Ion:129 Resp: 153194
Ion Ratio Lower Upper
129 100
127 0.1 38.5 115.3#



#62
4-Bromofluorobenzene
Concen: 40.386 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.003 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion: 95 Resp: 237853
Ion Ratio Lower Upper
95 100
174 99.6 0.0 214.0
176 96.0 0.0 205.4

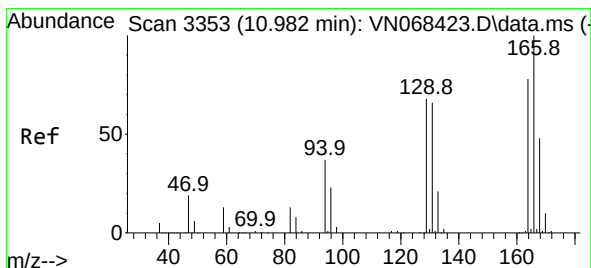
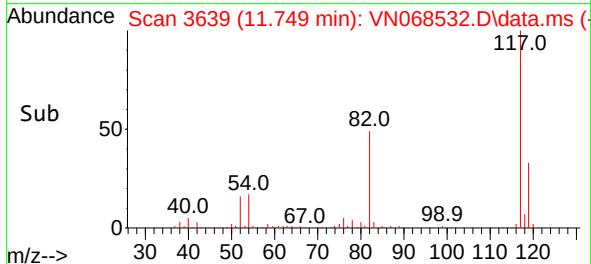
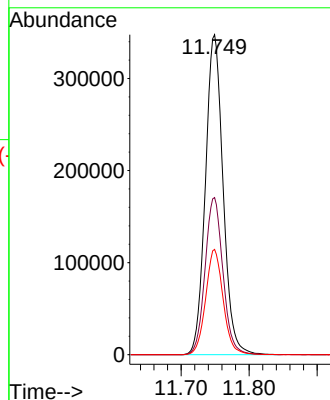
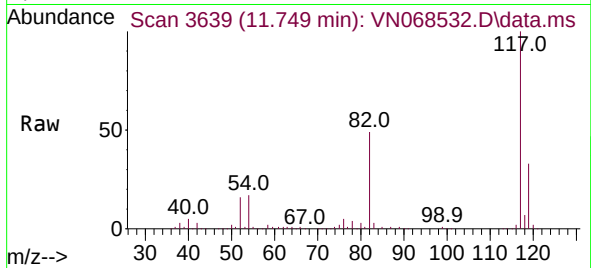




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

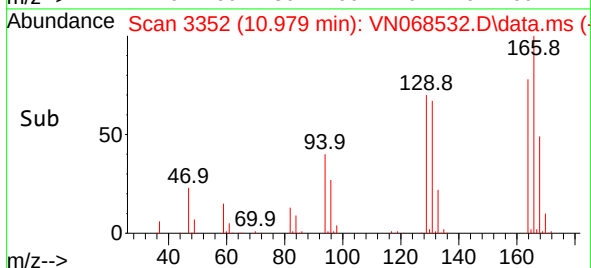
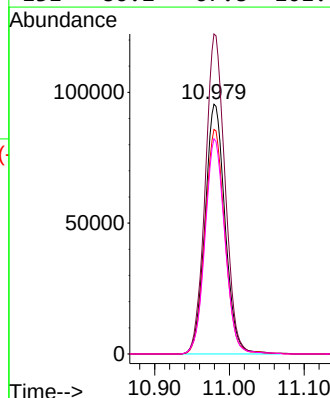
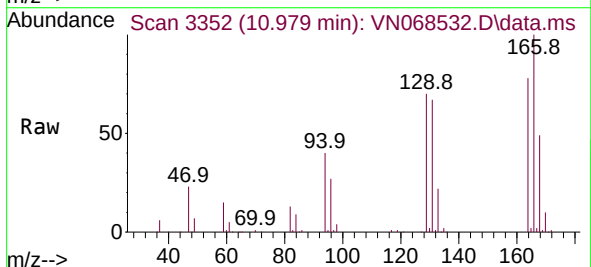
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

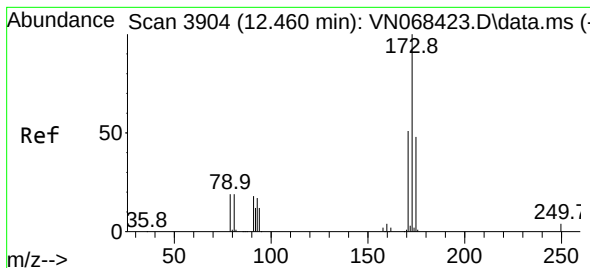
Tgt Ion:117 Resp: 628531
Ion Ratio Lower Upper
117 100
82 49.1 38.7 58.1
119 32.9 25.5 38.3



#64
Tetrachloroethene
Concen: 31.966 ug/l
RT: 10.979 min Scan# 3352
Delta R.T. -0.003 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion:164 Resp: 178076
Ion Ratio Lower Upper
164 100
166 128.1 102.9 154.3
129 89.9 70.1 105.1
131 86.2 67.8 101.6

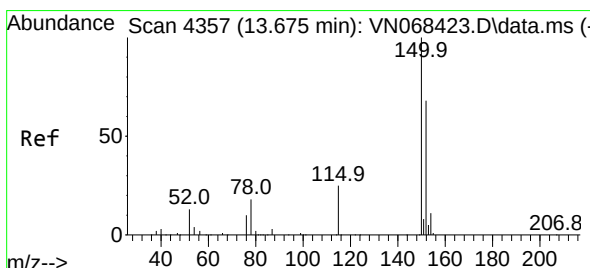
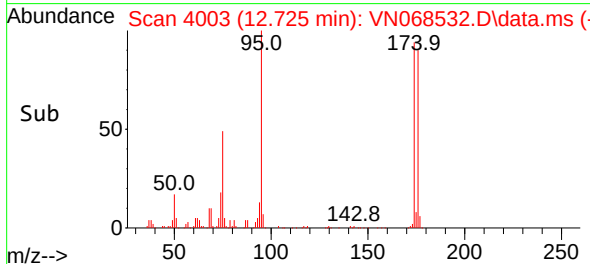
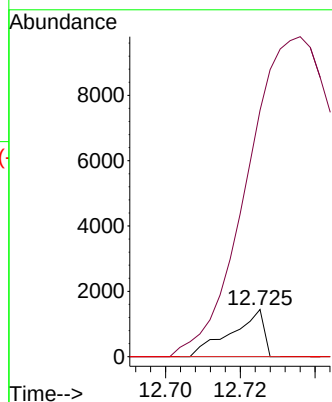
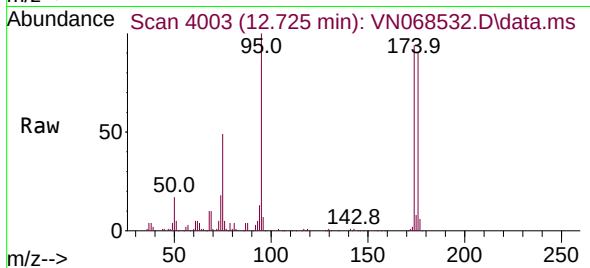




#71
Bromoform
Concen: 2.700 ug/l
RT: 12.725 min Scan# 4003
Delta R.T. 0.265 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

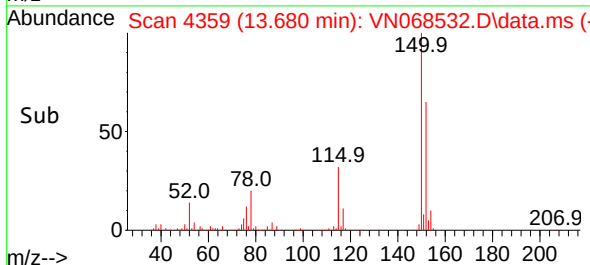
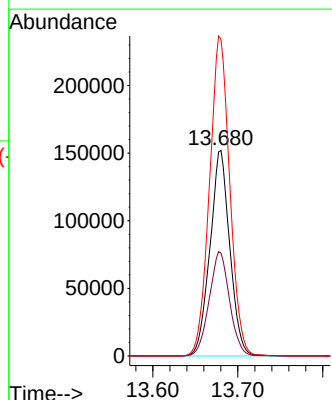
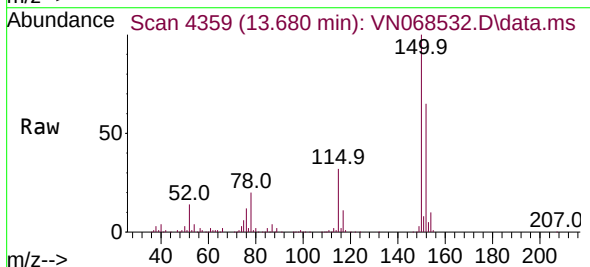
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

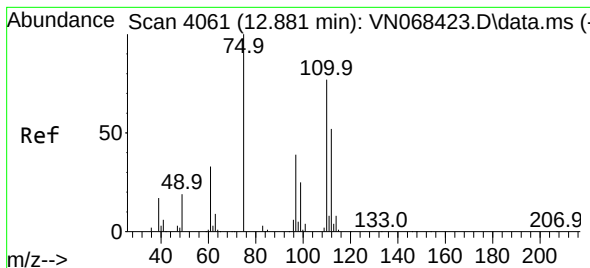
Tgt Ion:173 Resp: 876
Ion Ratio Lower Upper
173 100
175 1843.4 24.1 72.3#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.680 min Scan# 4359
Delta R.T. 0.005 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Tgt Ion:152 Resp: 245727
Ion Ratio Lower Upper
152 100
115 52.2 25.6 76.6
150 159.0 0.0 346.8

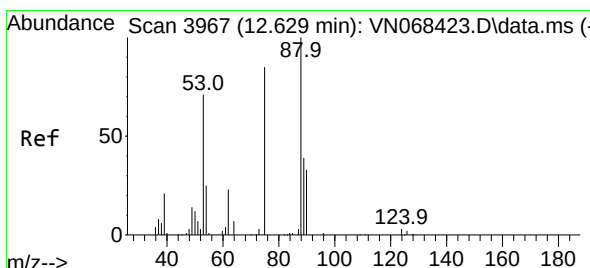
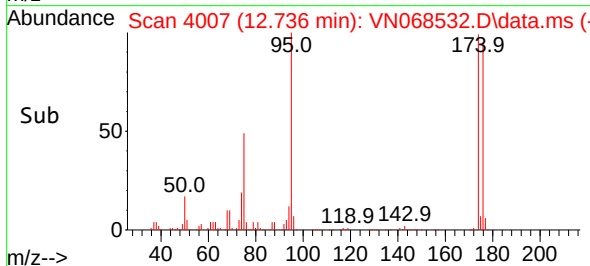
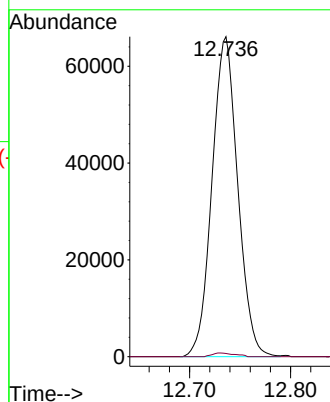
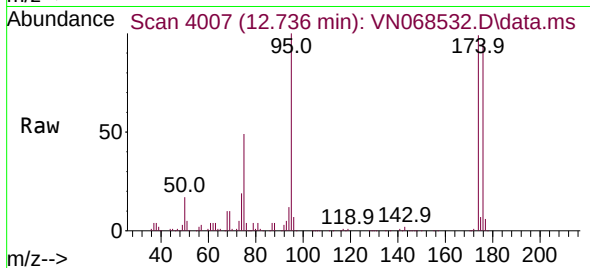




#76
1,2,3-Trichloropropane
Concen: 34.243 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. -0.145 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

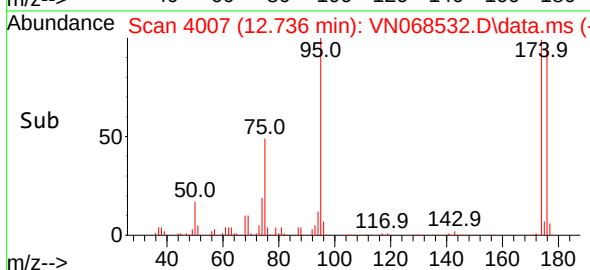
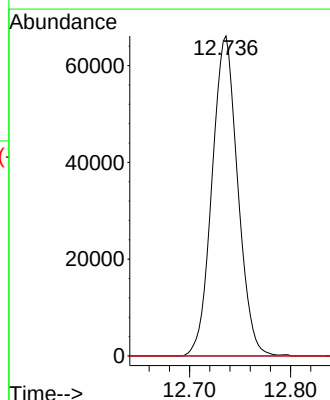
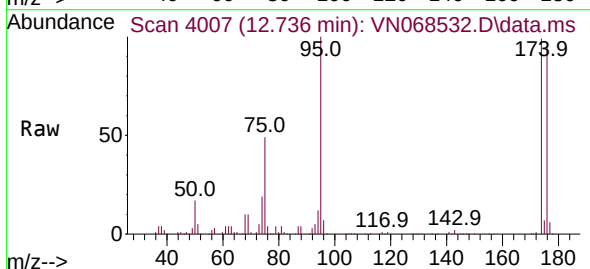
Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916

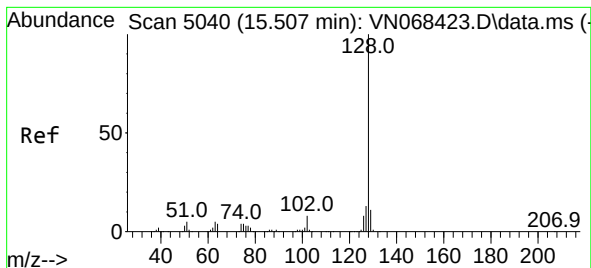
Tgt Ion: 75 Resp: 116882
Ion Ratio Lower Upper
75 100
77 1.0 100.9 302.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 105.415 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.107 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

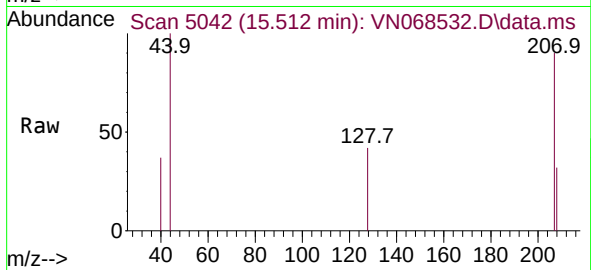
Tgt Ion: 75 Resp: 116882
Ion Ratio Lower Upper
75 100
53 0.0 70.6 105.8#
89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 3.522 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068532.D
Acq: 17 Sep 2021 20:22

Instrument :
MSVOA_N
ClientSampleId :
RE134D3-20210916



Tgt Ion:128 Resp: 269
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#

