

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092021\
 Data File : VN068566.D
 Acq On : 20 Sep 2021 20:00
 Operator : JC/MD
 Sample : M3781-08DL 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW179D2-20210915DL

Quant Time: Sep 21 07:30:06 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)

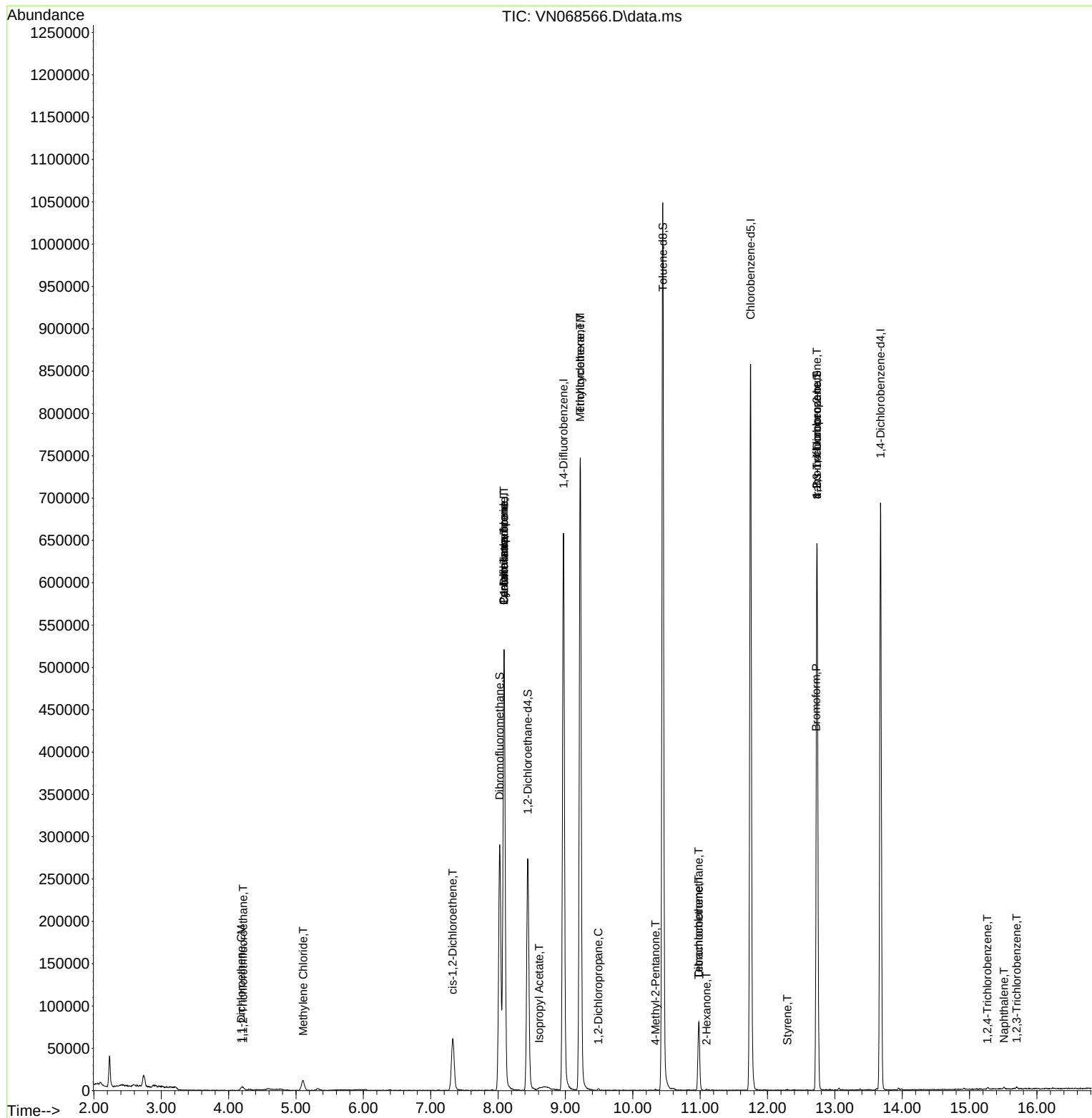
Internal Standards						
1) Pentafluorobenzene	8.088	168	439568	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	641965	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	554701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	208087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	229403	56.893	ug/l	0.00
Spiked Amount	50.000	Range 61 - 141	Recovery	=	113.780%	
35) Dibromofluoromethane	8.024	113	211469	54.617	ug/l	0.00
Spiked Amount	50.000	Range 69 - 133	Recovery	=	109.240%	
50) Toluene-d8	10.446	98	785699	49.515	ug/l	0.00
Spiked Amount	50.000	Range 65 - 126	Recovery	=	99.020%	
62) 4-Bromofluorobenzene	12.734	95	223323	43.273	ug/l	0.00
Spiked Amount	50.000	Range 58 - 135	Recovery	=	86.540%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.298	50	237	Below Cal	#	42
5) Bromomethane	2.834	94	91	Below Cal	#	3
9) 1,1,2-Trichlorotrifluo...	4.216	101	1542	0.409	ug/l #	60
11) Tert butyl alcohol	5.331	59	608	Below Cal	#	84
12) 1,1-Dichloroethene	4.189	96	1724	0.499	ug/l #	76
16) Acetone	4.296	43	841	Below Cal		97
18) Methyl Acetate	4.862	43	751	Below Cal	#	45
20) Methylene Chloride	5.106	84	10131	1.350	ug/l	95
27) cis-1,2-Dichloroethene	7.327	96	35575	7.682	ug/l	92
31) Cyclohexane	8.088	56	7286	1.192	ug/l #	29
36) 1,1-Dichloropropene	8.088	75	27348	5.110	ug/l #	47
38) Carbon Tetrachloride	8.088	117	40399	6.301	ug/l #	16
39) Methylcyclohexane	9.218	83	3380	0.499	ug/l #	1
43) Isopropyl Acetate	8.611	43	1948	0.271	ug/l #	51
44) Trichloroethene	9.220	130	298377	59.485	ug/l	97
45) 1,2-Dichloropropane	9.488	63	932	0.246	ug/l #	44
51) 4-Methyl-2-Pentanone	10.339	43	857	0.209	ug/l #	33
59) 2-Hexanone	11.095	43	942	0.343	ug/l	82
60) Dibromochloromethane	10.980	129	18756	4.966	ug/l #	11
64) Tetrachloroethene	10.977	164	20816	4.234	ug/l	95
70) Styrene	12.296	104	253	1.773	ug/l #	54
71) Bromoform	12.723	173	343	2.603	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	113027	39.263	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	113027	120.377	ug/l #	13
93) 1,2,4-Trichlorobenzene	15.265	180	781	3.148	ug/l	88
95) Naphthalene	15.509	128	2716	3.803	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.700	180	548	3.115	ug/l	72

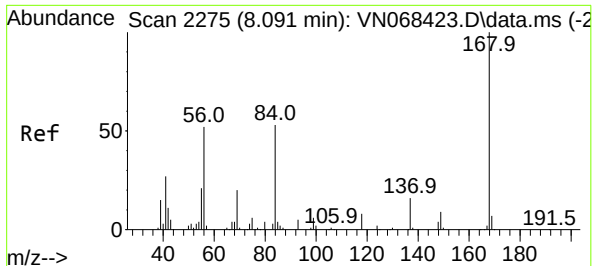
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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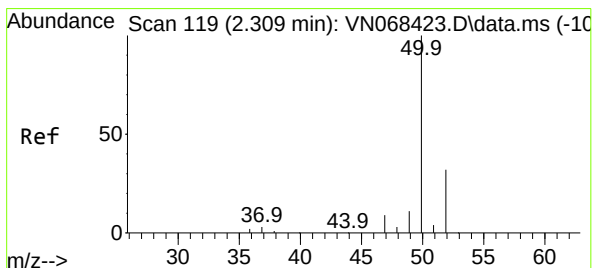
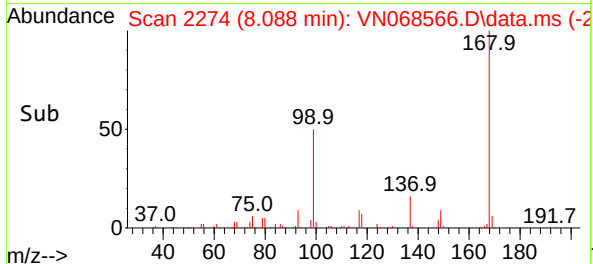
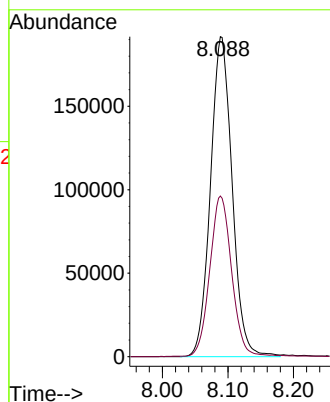
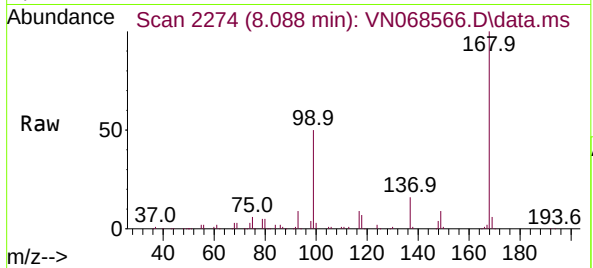




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.003 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

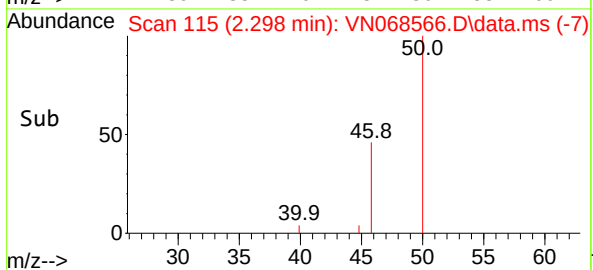
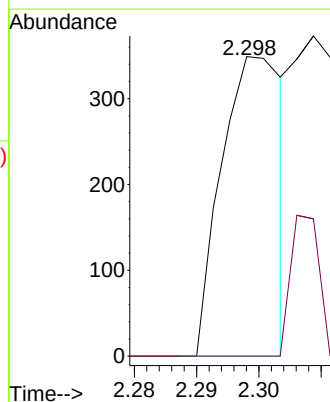
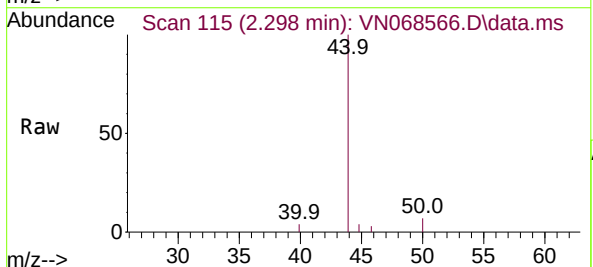
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

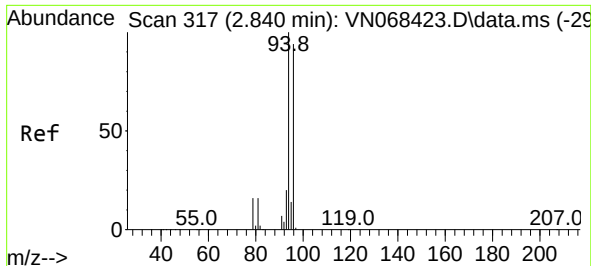
Tgt Ion:168 Resp: 439568
Ion Ratio Lower Upper
168 100
99 50.1 38.2 57.4



#3
Chloromethane
Concen: Below Cal
RT: 2.298 min Scan# 115
Delta R.T. -0.011 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 50 Resp: 237
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

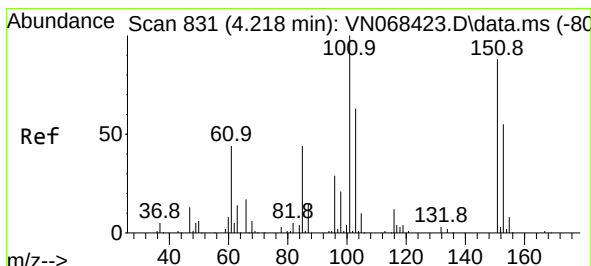
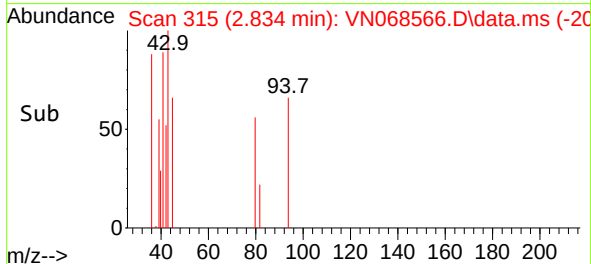
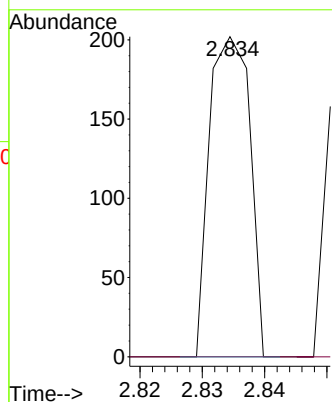
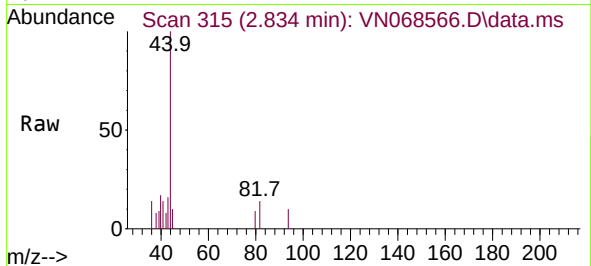




#5
Bromomethane
Concen: Below Cal
RT: 2.834 min Scan# 315
Delta R.T. -0.006 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

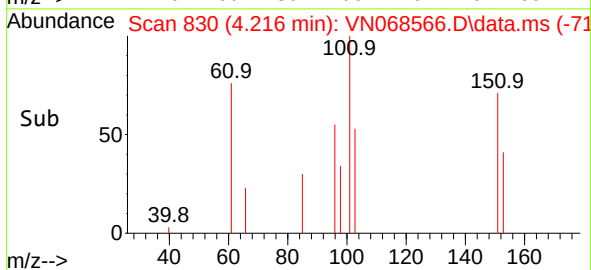
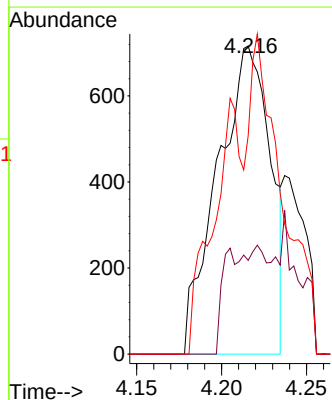
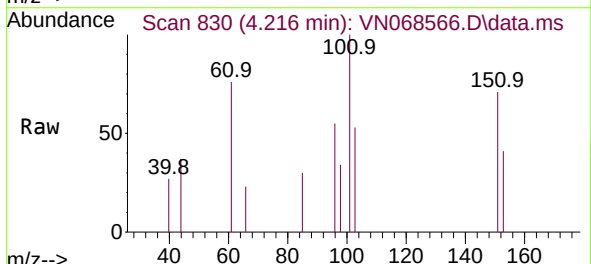
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

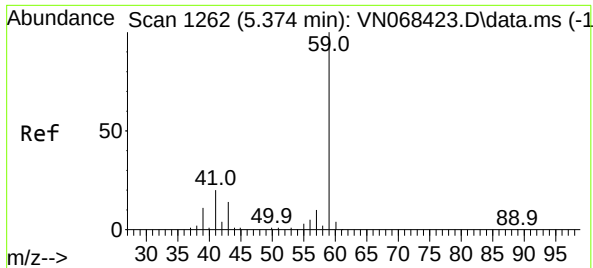
Tgt Ion: 94 Resp: 91
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.0#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.409 ug/l
RT: 4.216 min Scan# 830
Delta R.T. -0.002 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion:101 Resp: 1542
Ion Ratio Lower Upper
101 100
85 0.0 35.7 53.5#
151 65.6 71.6 107.4#



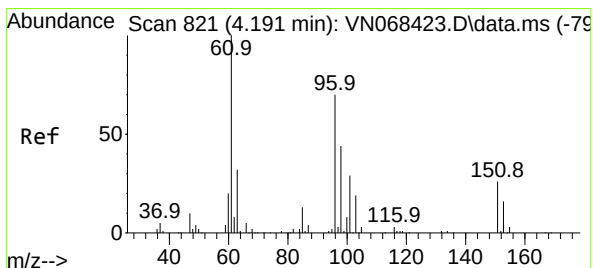
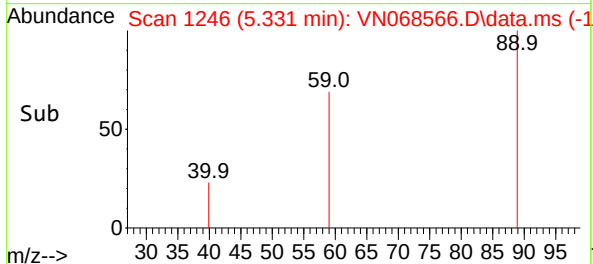
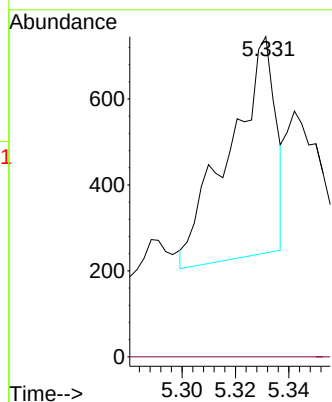
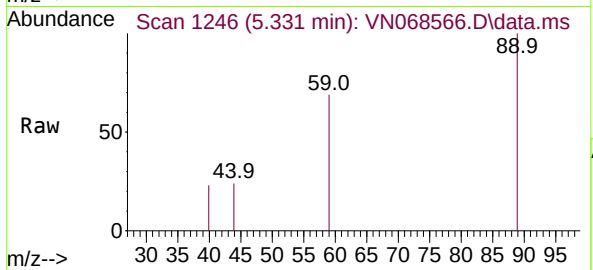


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.331 min Scan# 1246
Delta R.T. -0.043 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

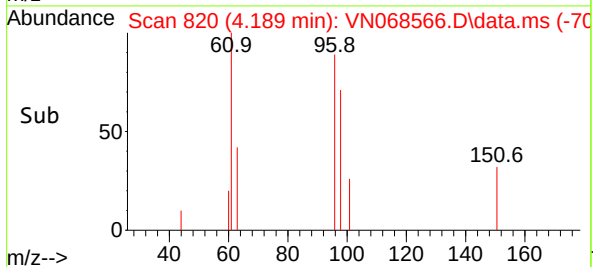
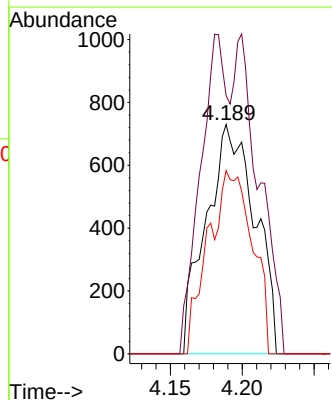
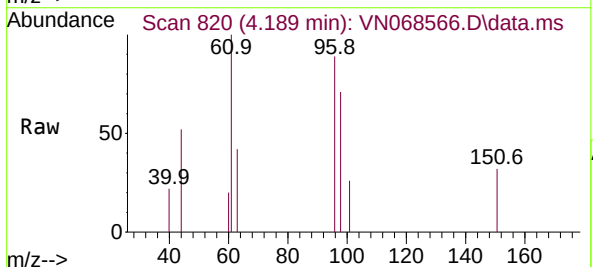
Tgt Ion: 59 Resp: 608
Ion Ratio Lower Upper
59 100
57 0.0 4.3 6.5#

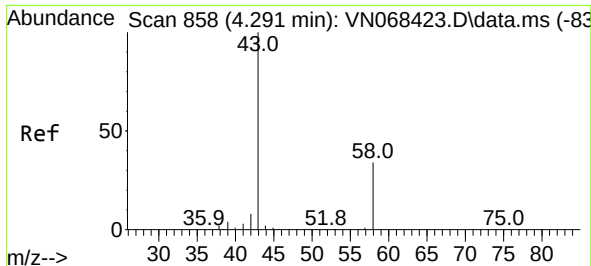


#12

1,1-Dichloroethene
Concen: 0.499 ug/l
RT: 4.189 min Scan# 820
Delta R.T. -0.002 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 96 Resp: 1724
Ion Ratio Lower Upper
96 100
61 112.6 114.7 172.1#
98 79.9 50.9 76.3#

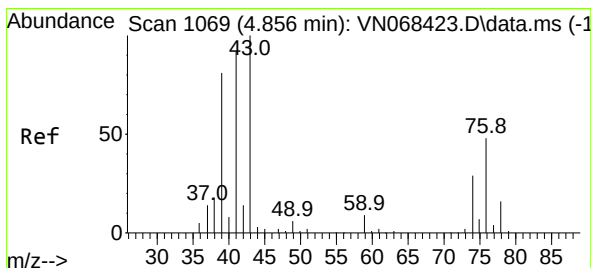
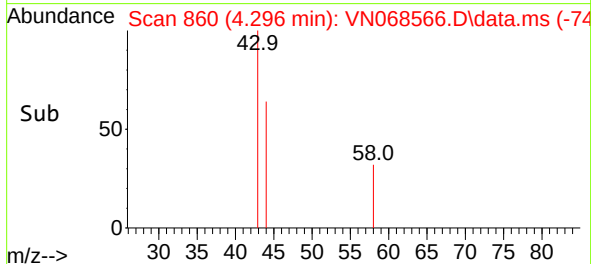
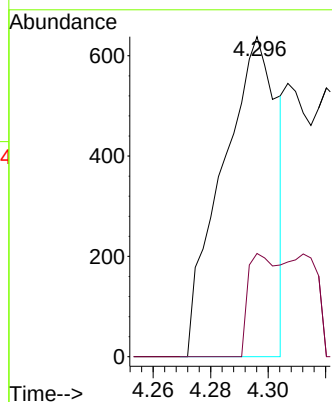
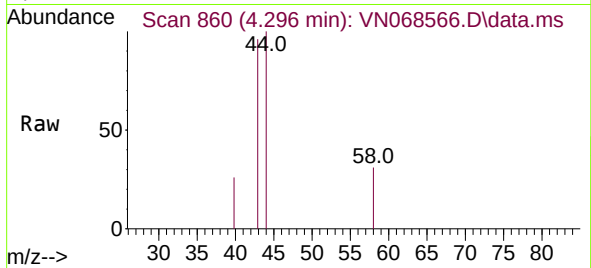




#16
Acetone
Concen: Below Cal
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

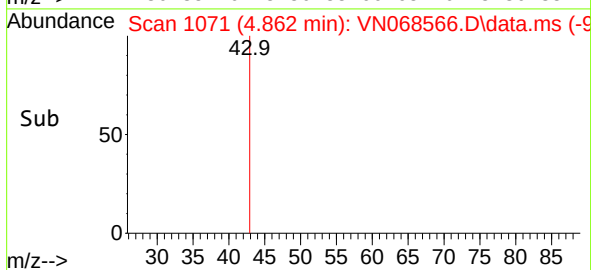
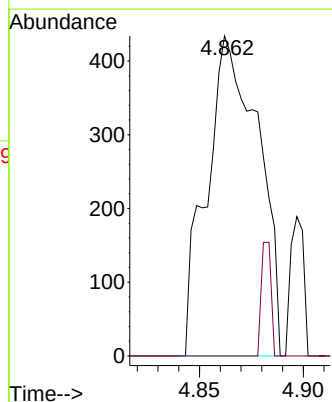
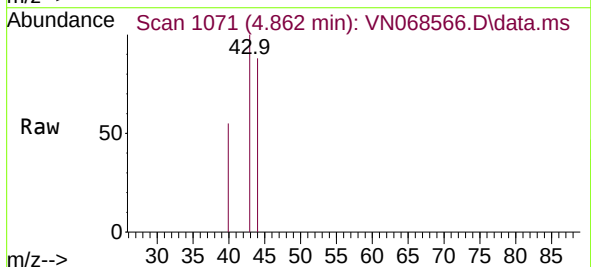
Instrument :
MSVOA_N
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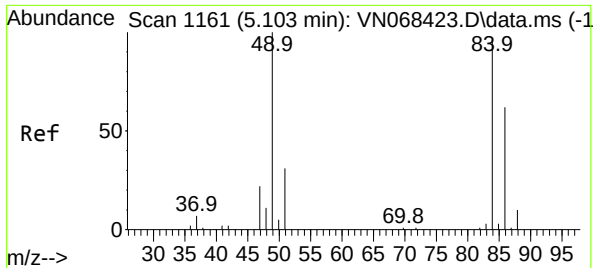
Tgt Ion: 43 Resp: 841
Ion Ratio Lower Upper
43 100
58 32.3 27.0 40.6



#18
Methyl Acetate
Concen: Below Cal
RT: 4.862 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 43 Resp: 751
Ion Ratio Lower Upper
43 100
74 0.0 23.5 35.3#

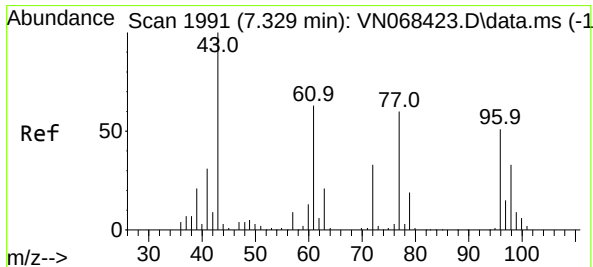
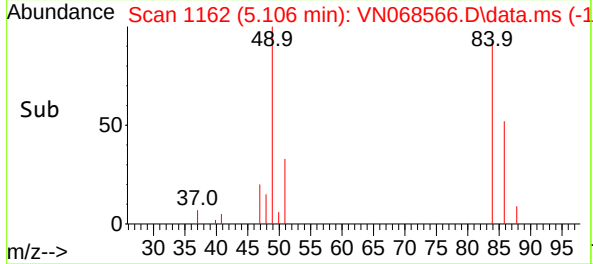
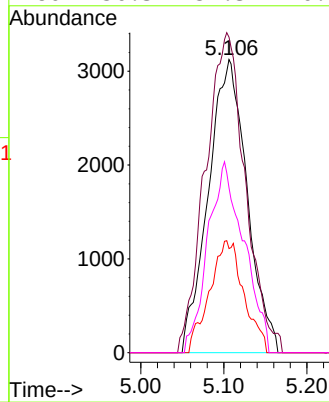
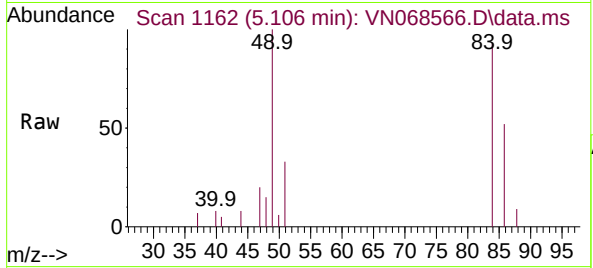




#20
Methylene Chloride
Concen: 1.350 ug/l
RT: 5.106 min Scan# 1162
Delta R.T. 0.003 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

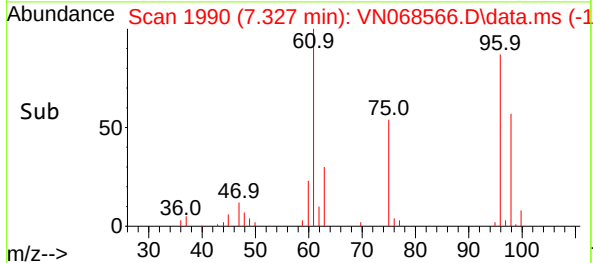
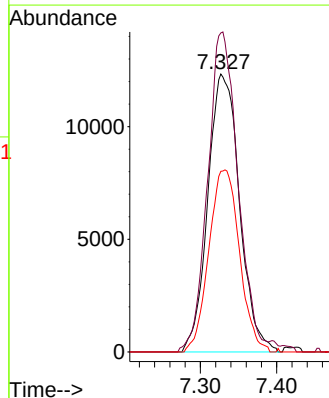
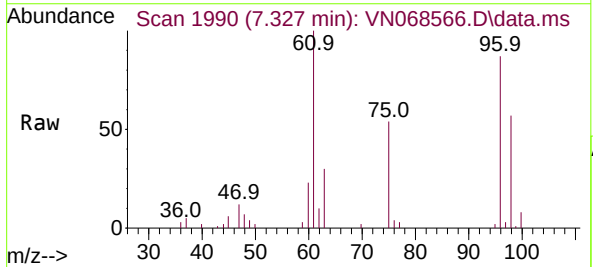
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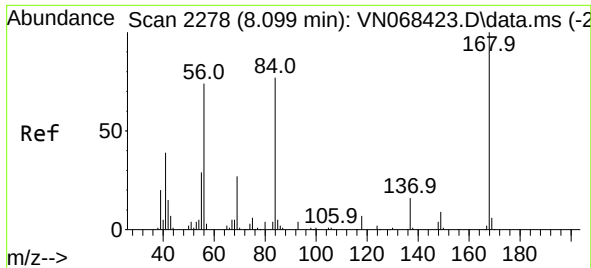
Tgt Ion: 84	Resp: 10131
Ion Ratio	Lower Upper
84 100	
49 102.6	83.0 124.6
51 35.6	25.4 38.0
86 56.3	51.3 76.9



#27
cis-1,2-Dichloroethene
Concen: 7.682 ug/l
RT: 7.327 min Scan# 1990
Delta R.T. -0.002 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 96	Resp: 35575
Ion Ratio	Lower Upper
96 100	
61 109.9	0.0 246.4
98 63.4	0.0 130.4

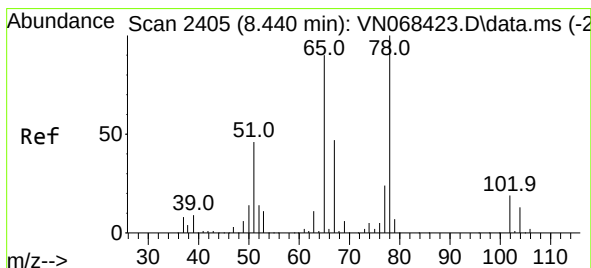
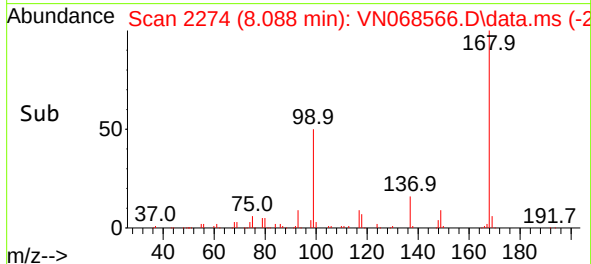
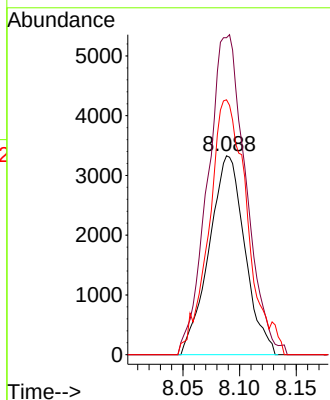
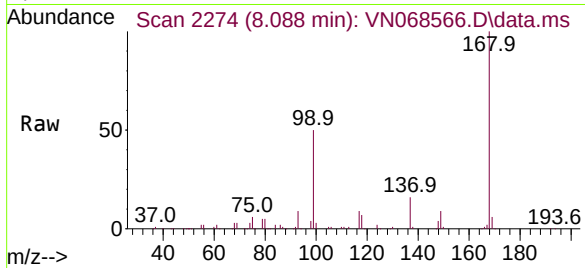




#31
Cyclohexane
Concen: 1.192 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.011 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

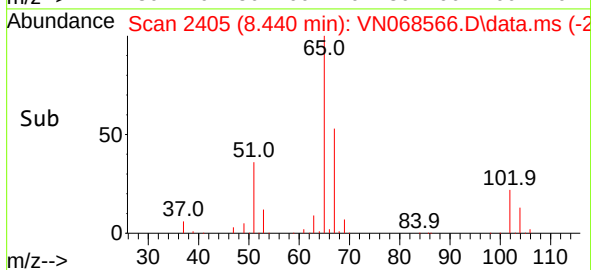
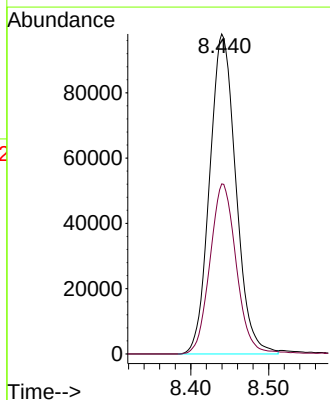
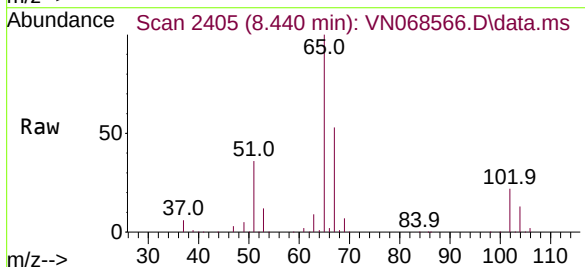
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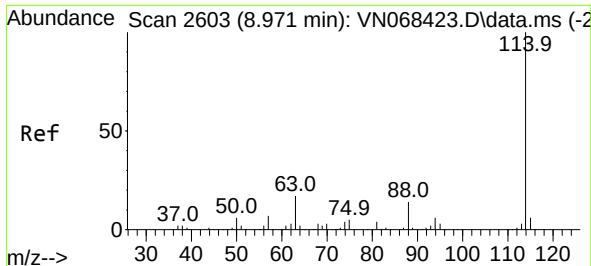
Tgt Ion:	56	Resp:	7286
Ion	Ratio	Lower	Upper
56	100		
69	159.4	29.4	44.0#
84	128.2	83.6	125.4#



#33
1,2-Dichloroethane-d4
Concen: 56.893 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion:	65	Resp:	229403
Ion	Ratio	Lower	Upper
65	100		
67	53.4	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: VN068566.D

Acq: 20 Sep 2021 20:00

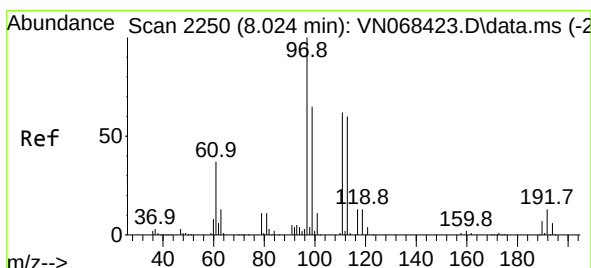
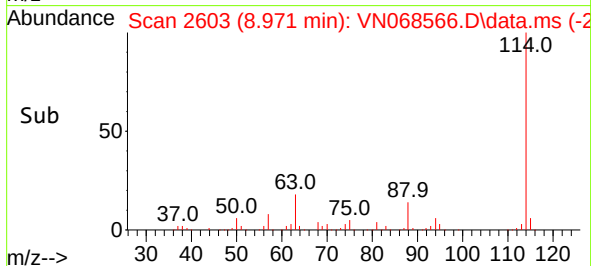
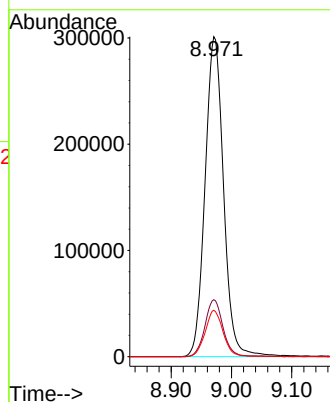
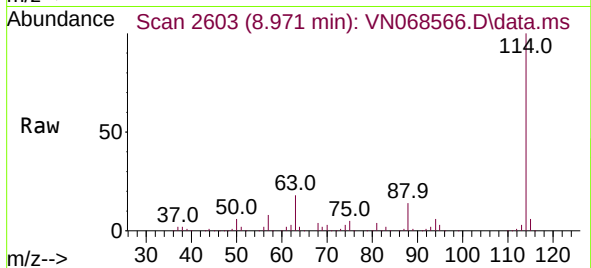
Tgt Ion:114 Resp: 641965

Ion Ratio Lower Upper

114 100

63 17.8 0.0 33.2

88 14.5 0.0 28.4



#35

Dibromofluoromethane

Concen: 54.617 ug/l

RT: 8.024 min Scan# 2250

Delta R.T. 0.000 min

Lab File: VN068566.D

Acq: 20 Sep 2021 20:00

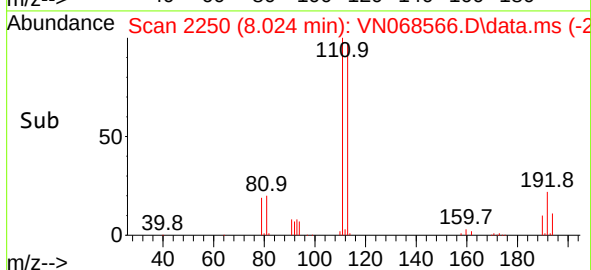
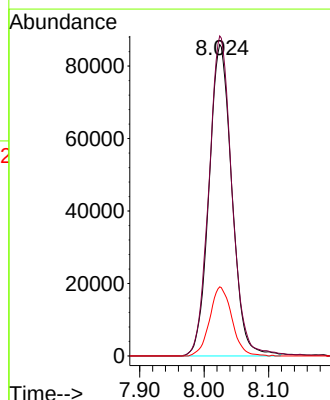
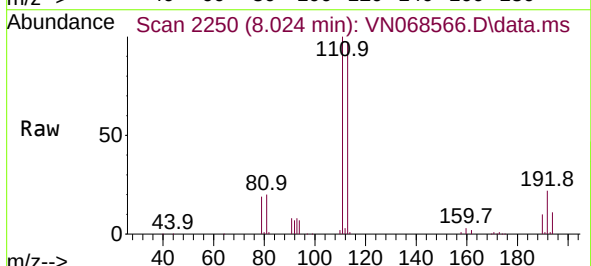
Tgt Ion:113 Resp: 211469

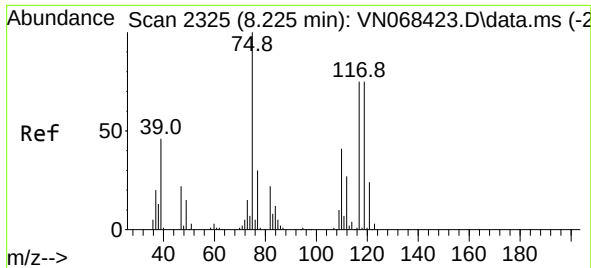
Ion Ratio Lower Upper

113 100

111 103.6 81.1 121.7

192 21.6 17.7 26.5

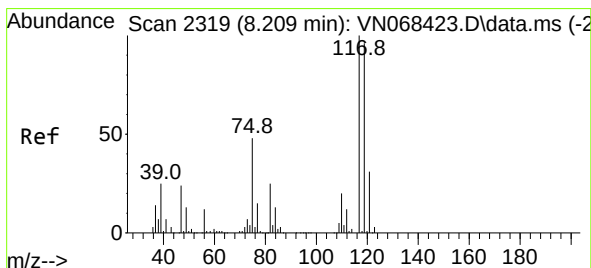
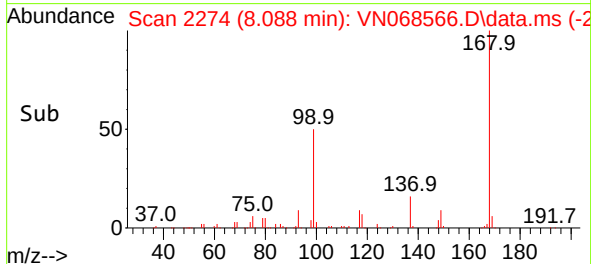
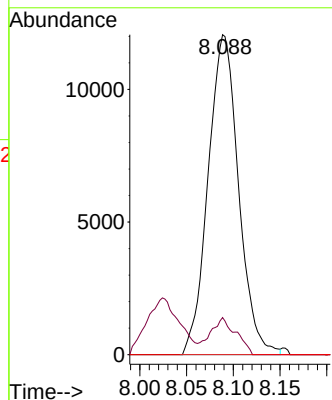
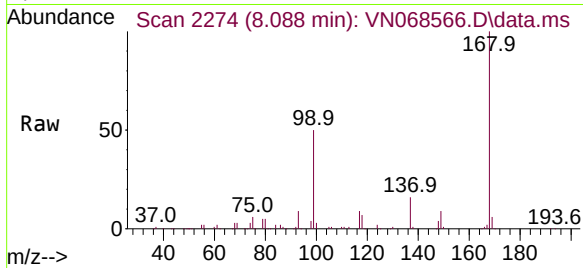




#36
 1,1-Dichloropropene
 Concen: 5.110 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.137 min
 Lab File: VN068566.D
 Acq: 20 Sep 2021 20:00

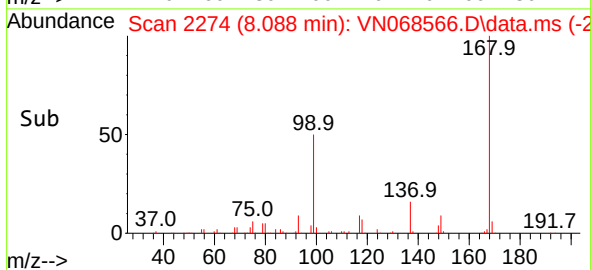
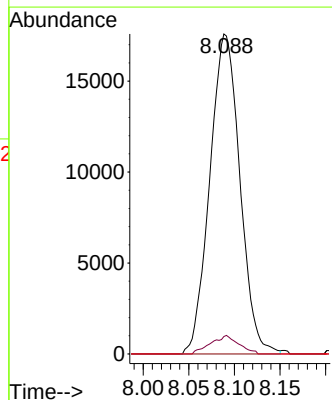
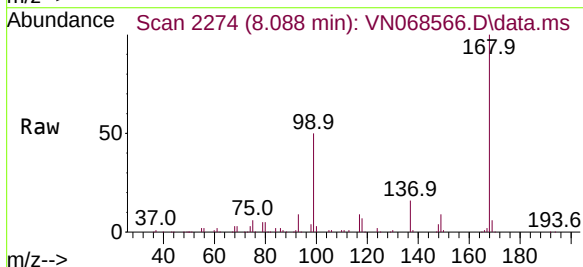
Instrument :
 MSVOA_N
 ClientSampleId :
 MW179D2-20210915DL

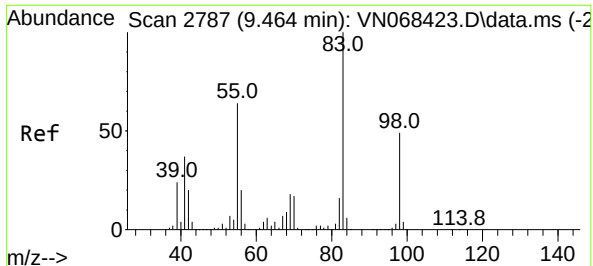
Tgt Ion: 75 Resp: 27348
 Ion Ratio Lower Upper
 75 100
 110 9.6 20.8 62.5#
 77 0.0 25.0 37.6#



#38
 Carbon Tetrachloride
 Concen: 6.301 ug/l
 RT: 8.088 min Scan# 2274
 Delta R.T. -0.121 min
 Lab File: VN068566.D
 Acq: 20 Sep 2021 20:00

Tgt Ion: 117 Resp: 40399
 Ion Ratio Lower Upper
 117 100
 119 5.4 76.6 114.8#
 121 0.0 24.5 36.7#





#39

Methylcyclohexane

Concen: 0.499 ug/l

RT: 9.218 min Scan# 2695

Delta R.T. -0.246 min

Lab File: VN068566.D

Acq: 20 Sep 2021 20:00

Tgt Ion: 83 Resp: 3380

Ion Ratio Lower Upper

83 100

55 0.0 51.0 76.4#

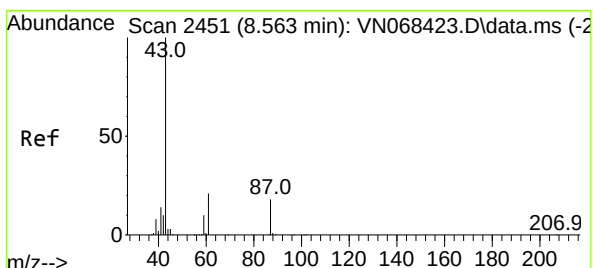
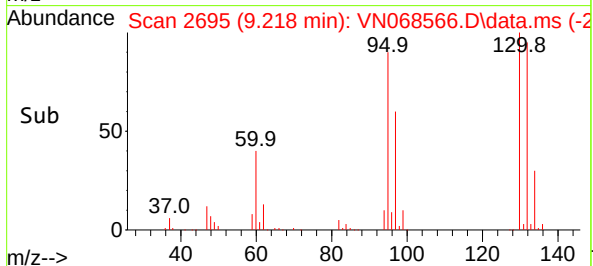
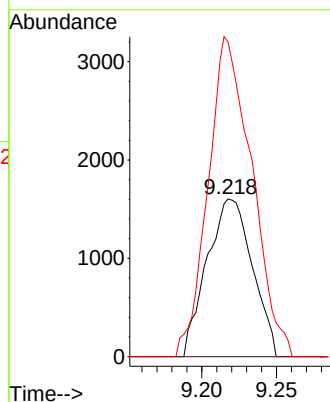
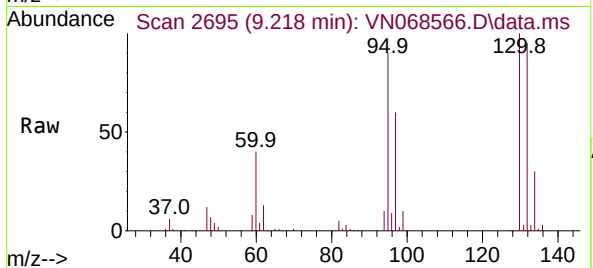
98 187.6 39.5 59.3#

Instrument :

MSVOA_N

ClientSampleId :

MW179D2-20210915DL



#43

Isopropyl Acetate

Concen: 0.271 ug/l

RT: 8.611 min Scan# 2469

Delta R.T. 0.048 min

Lab File: VN068566.D

Acq: 20 Sep 2021 20:00

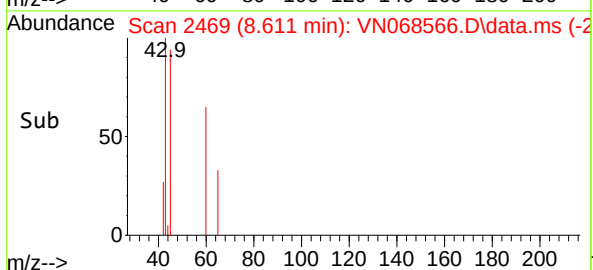
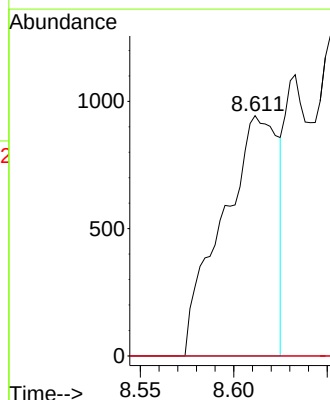
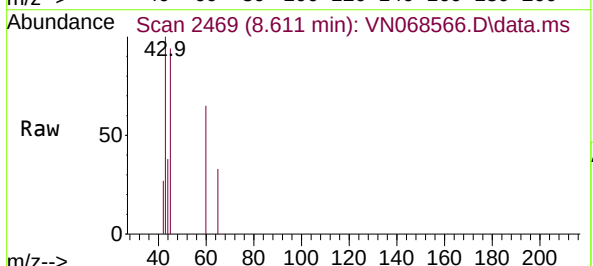
Tgt Ion: 43 Resp: 1948

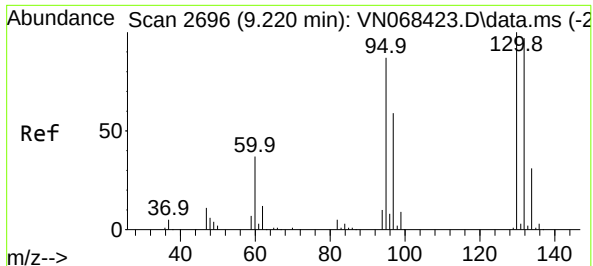
Ion Ratio Lower Upper

43 100

61 0.0 23.3 34.9#

87 0.0 13.8 20.6#

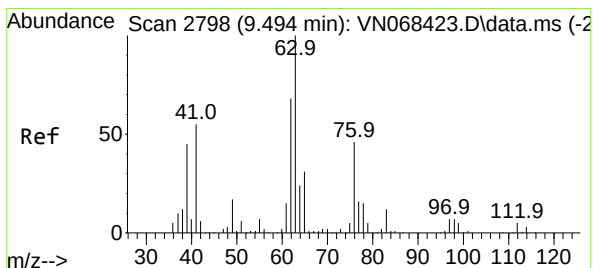
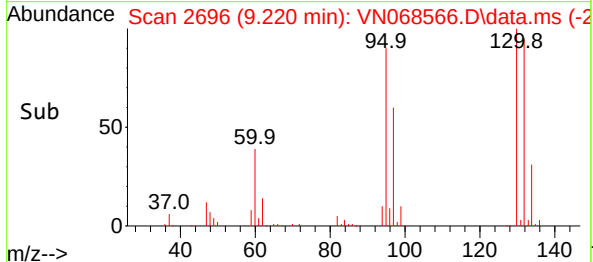
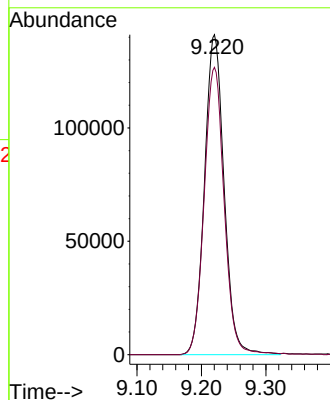
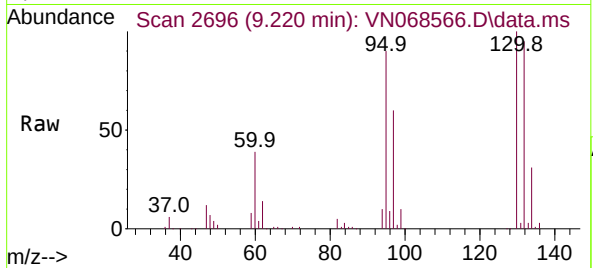




#44
Trichloroethene
Concen: 59.485 ug/l
RT: 9.220 min Scan# 2696
Delta R.T. 0.000 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

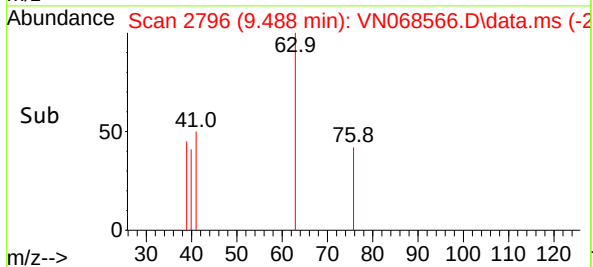
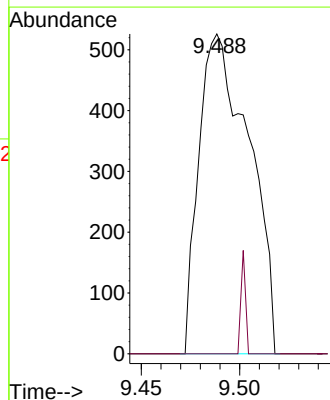
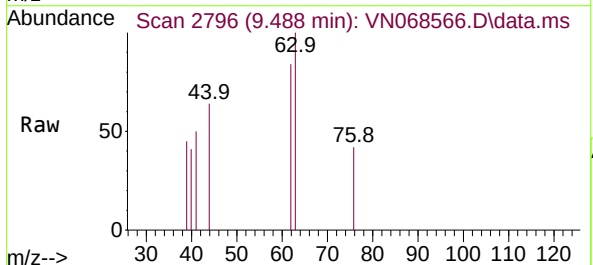
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

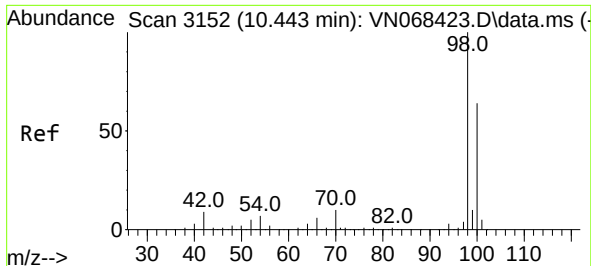
Tgt Ion:130 Resp: 298377
Ion Ratio Lower Upper
130 100
95 89.8 0.0 173.8



#45
1,2-Dichloropropane
Concen: 0.246 ug/l
RT: 9.488 min Scan# 2796
Delta R.T. -0.006 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 63 Resp: 932
Ion Ratio Lower Upper
63 100
65 0.0 24.8 37.2#

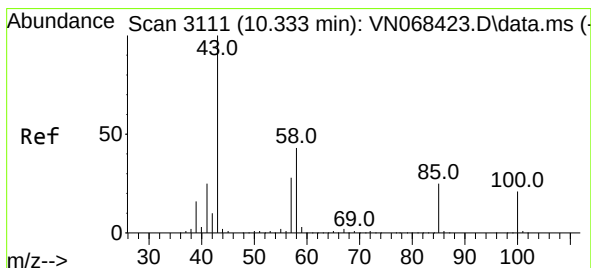
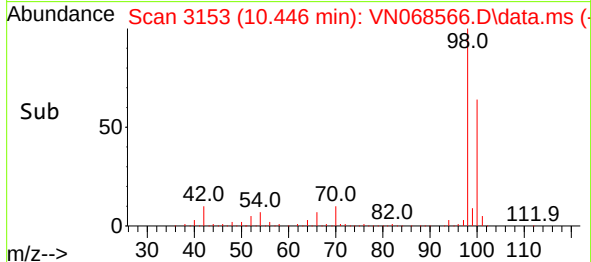
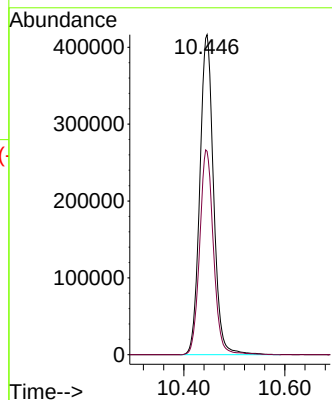
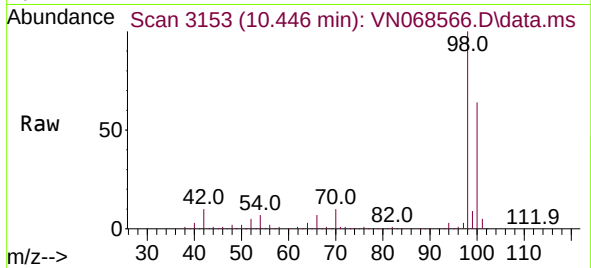




#50
Toluene-d8
Concen: 49.515 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

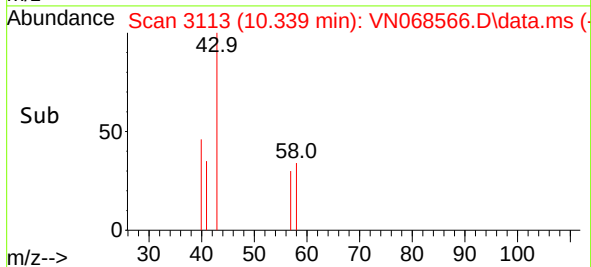
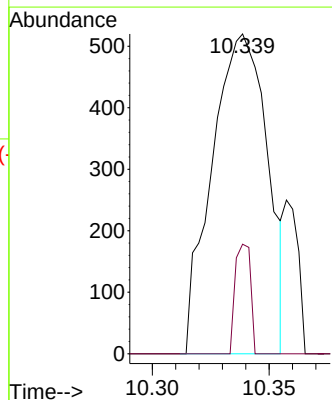
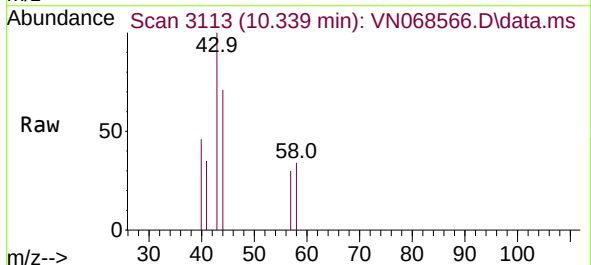
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

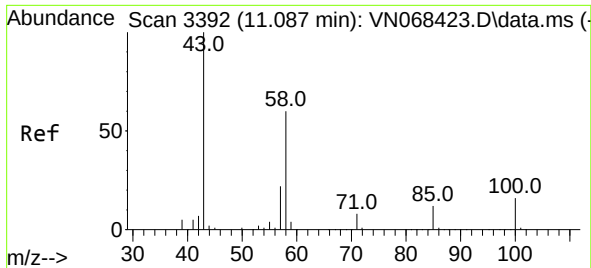
Tgt Ion: 98 Resp: 785699
Ion Ratio Lower Upper
98 100
100 64.3 51.0 76.6



#51
4-Methyl-2-Pentanone
Concen: 0.209 ug/l
RT: 10.339 min Scan# 3113
Delta R.T. 0.006 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 43 Resp: 857
Ion Ratio Lower Upper
43 100
58 0.0 34.3 51.5#

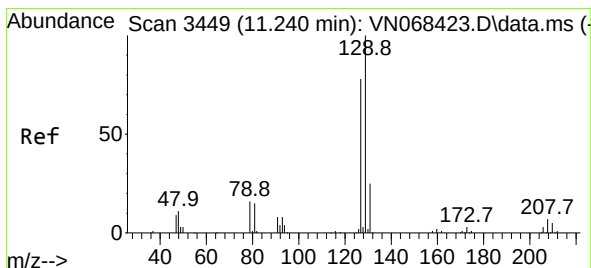
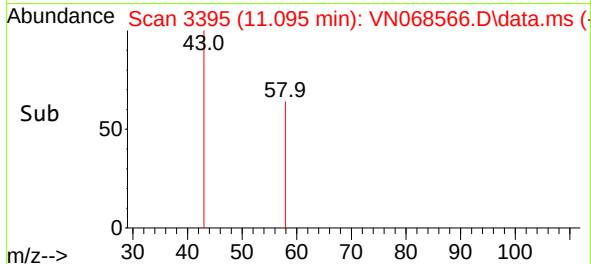
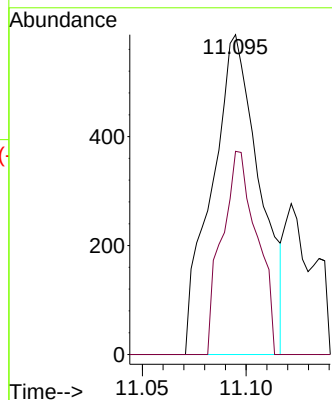
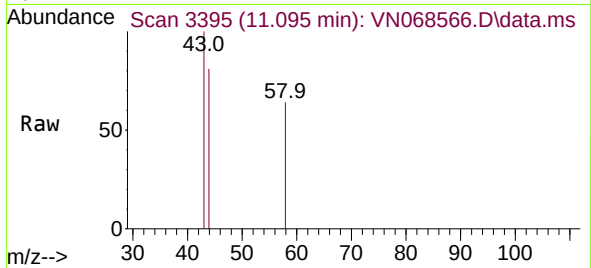




#59
2-Hexanone
Concen: 0.343 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

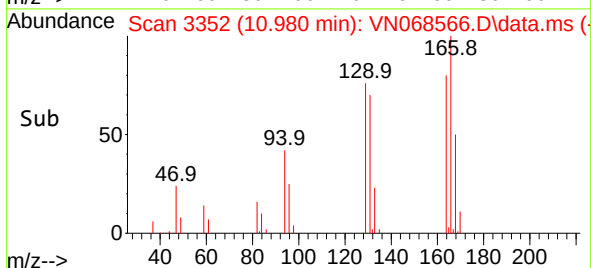
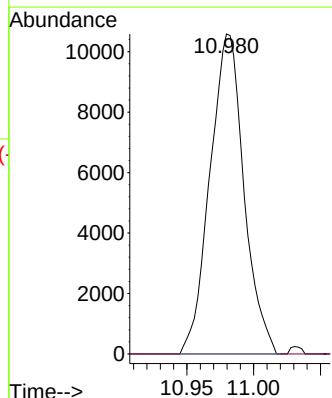
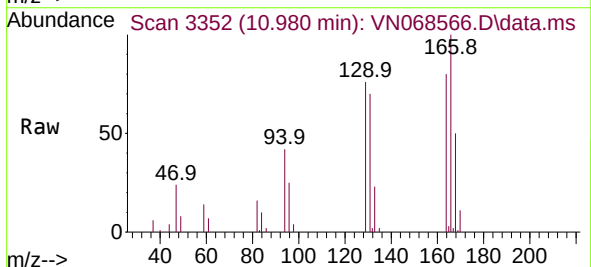
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

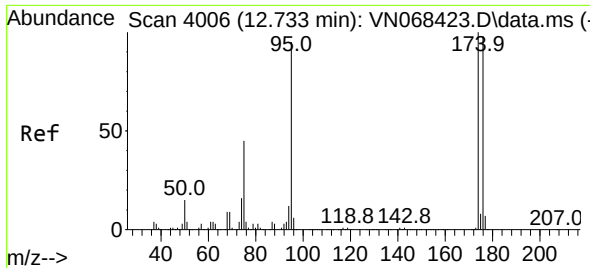
Tgt Ion: 43 Resp: 942
Ion Ratio Lower Upper
43 100
58 46.3 30.0 90.1



#60
Dibromochloromethane
Concen: 4.966 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. -0.260 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 129 Resp: 18756
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

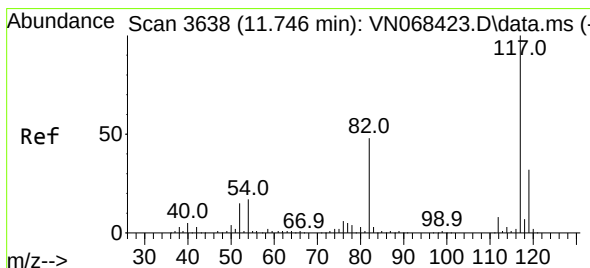
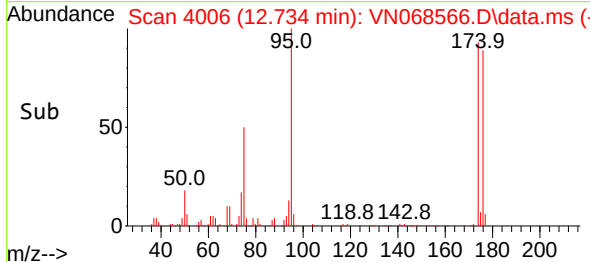
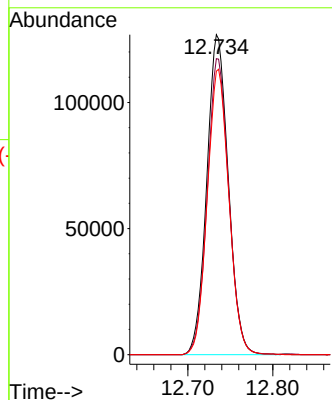
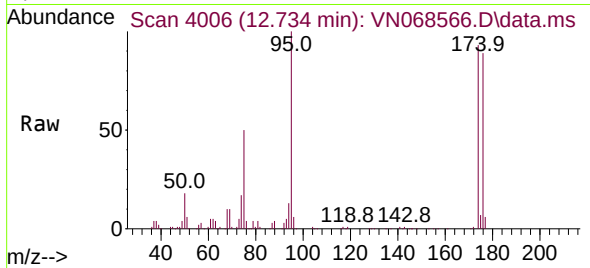




#62
4-Bromofluorobenzene
Concen: 43.273 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

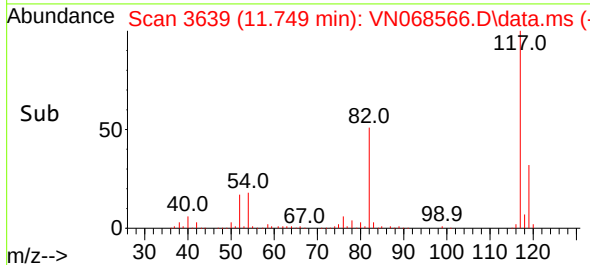
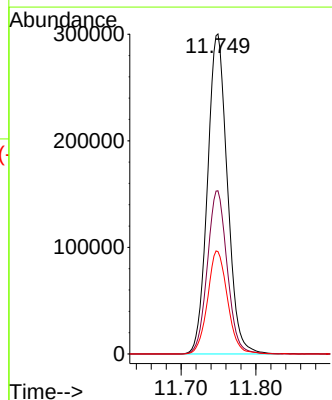
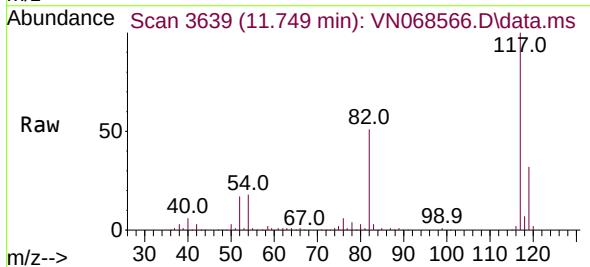
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

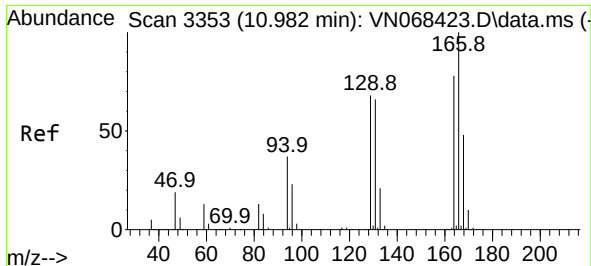
Tgt Ion: 95 Resp: 223323
Ion Ratio Lower Upper
95 100
174 92.6 0.0 214.0
176 89.5 0.0 205.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.003 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

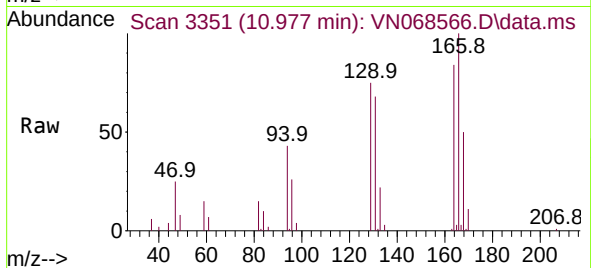
Tgt Ion: 117 Resp: 554701
Ion Ratio Lower Upper
117 100
82 51.0 38.7 58.1
119 32.0 25.5 38.3



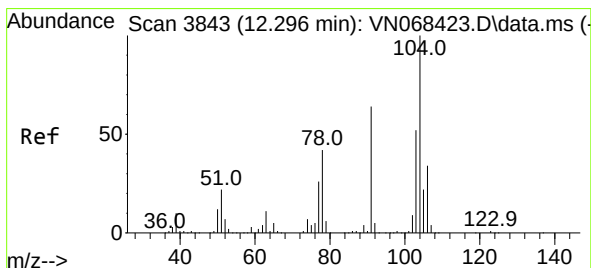
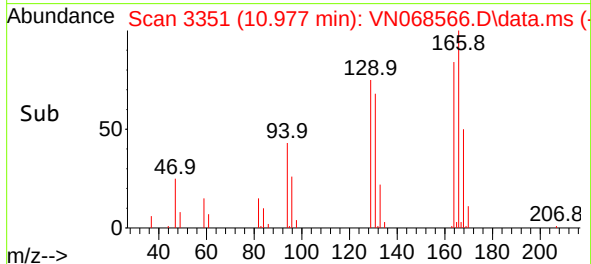
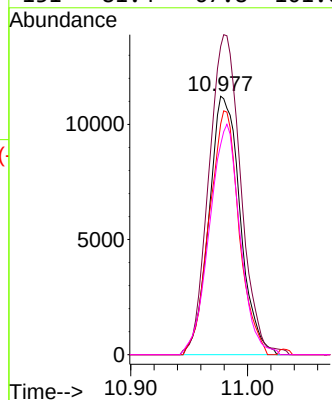


#64
Tetrachloroethene
Concen: 4.234 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.005 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

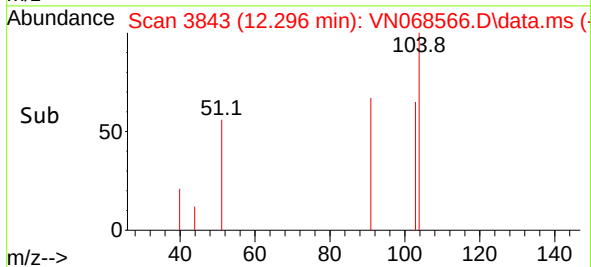
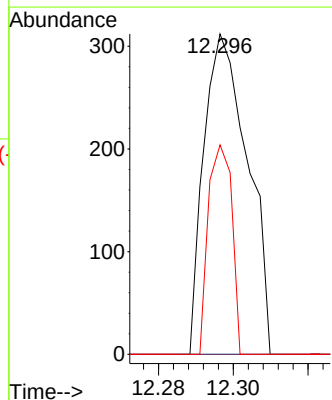
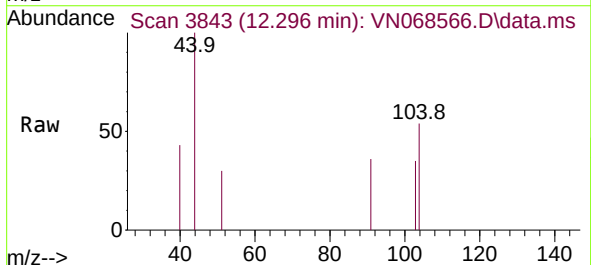


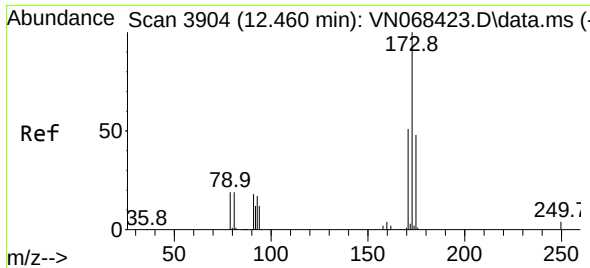
Tgt Ion:164 Resp: 20816
Ion Ratio Lower Upper
164 100
166 119.3 102.9 154.3
129 89.3 70.1 105.1
131 81.4 67.8 101.6



#70
Styrene
Concen: 1.773 ug/l
RT: 12.296 min Scan# 3843
Delta R.T. 0.000 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion:104 Resp: 253
Ion Ratio Lower Upper
104 100
78 0.0 36.2 54.2#
103 35.2 44.4 66.6#

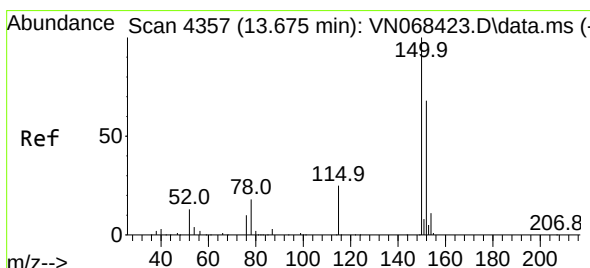
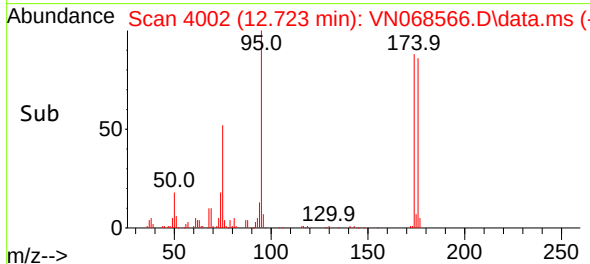
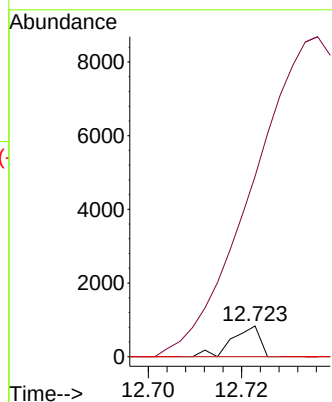
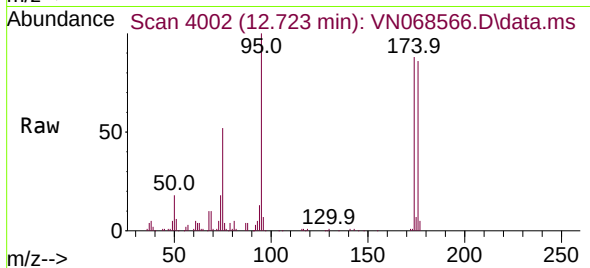




#71
Bromoform
Concen: 2.603 ug/l
RT: 12.723 min Scan# 4002
Delta R.T. 0.263 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

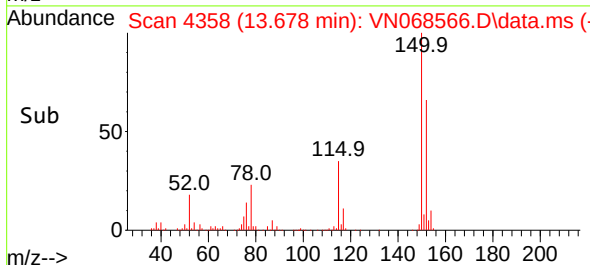
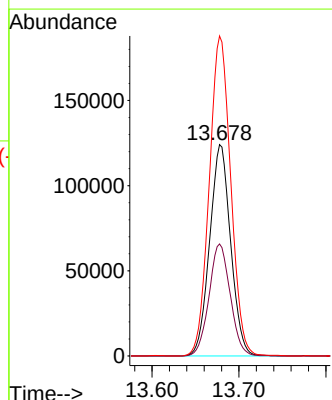
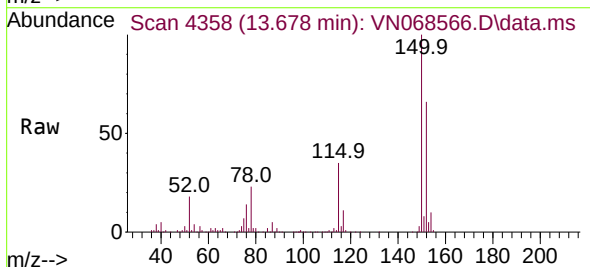
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

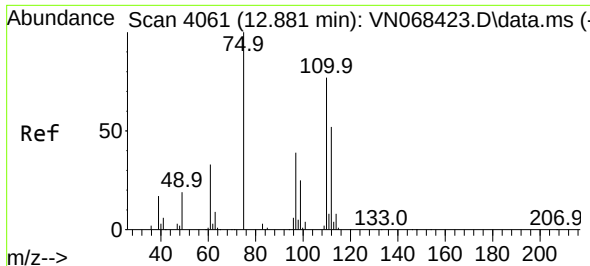
Tgt Ion:173 Resp: 343
Ion Ratio Lower Upper
173 100
175 4047.5 24.1 72.3#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion:152 Resp: 208087
Ion Ratio Lower Upper
152 100
115 53.4 25.6 76.6
150 154.8 0.0 346.8

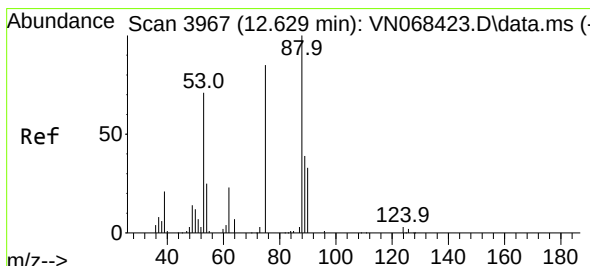
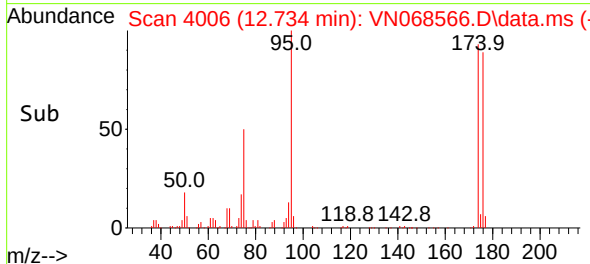
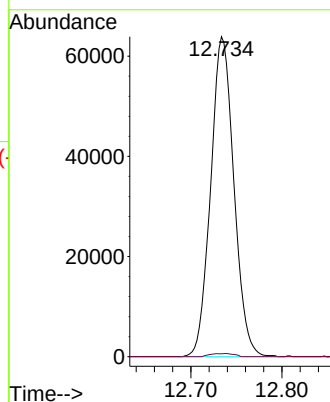
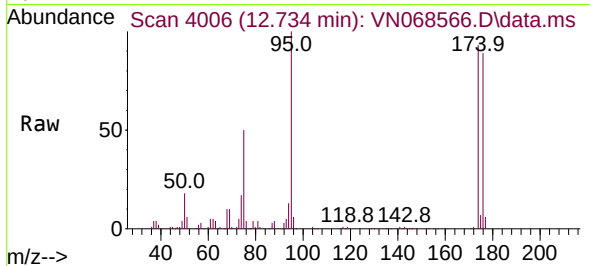




#76
1,2,3-Trichloropropane
Concen: 39.263 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

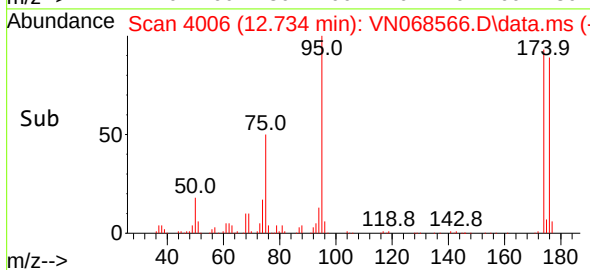
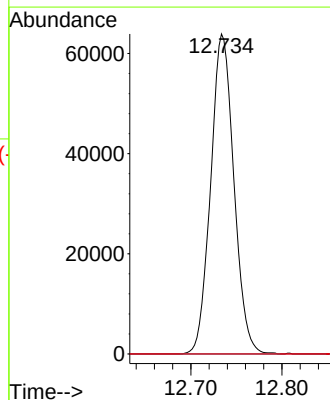
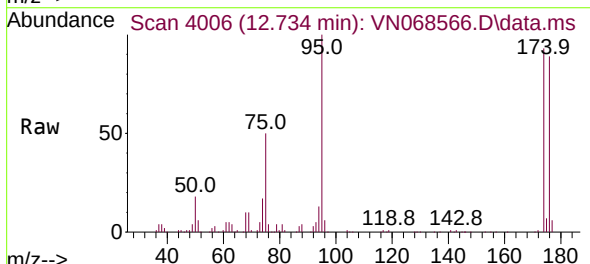
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

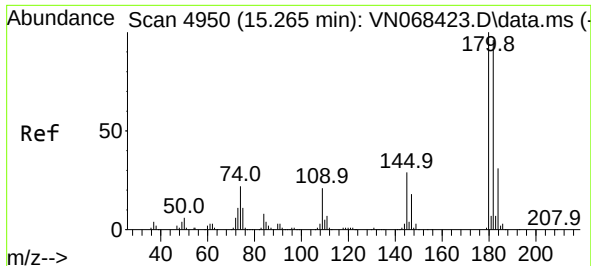
Tgt Ion: 75 Resp: 113027
Ion Ratio Lower Upper
75 100
77 0.5 100.9 302.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 120.377 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

Tgt Ion: 75 Resp: 113027
Ion Ratio Lower Upper
75 100
53 0.0 70.6 105.8#
89 0.0 39.5 59.3#

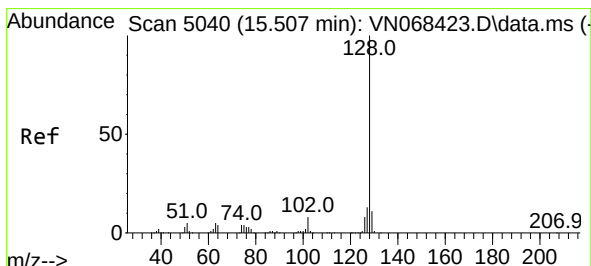
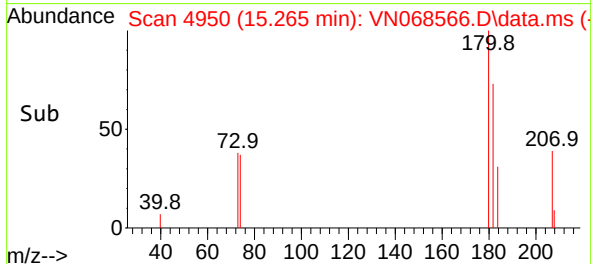
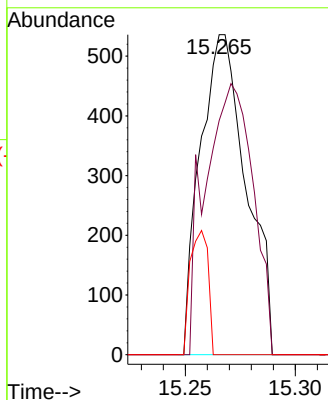
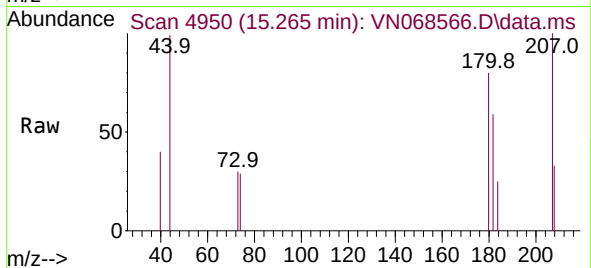




#93
1,2,4-Trichlorobenzene
Concen: 3.148 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

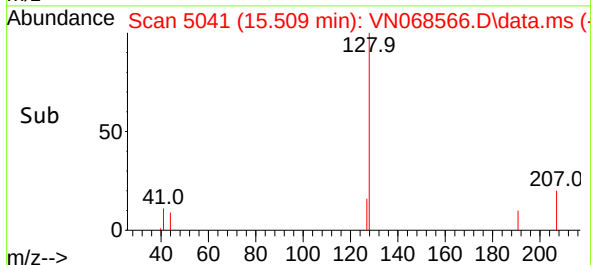
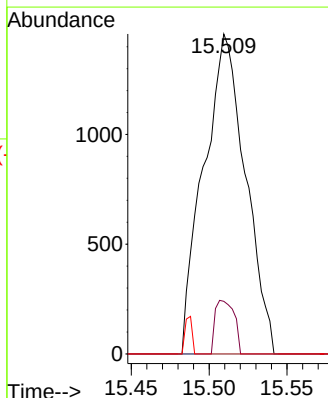
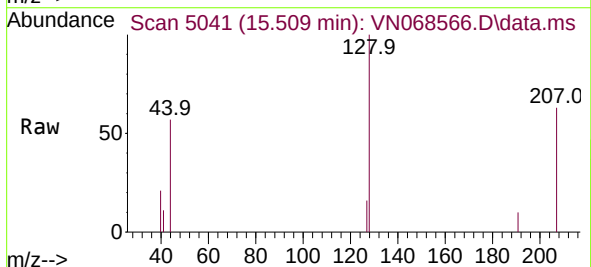
Instrument :
MSVOA_N
ClientSampleId :
MW179D2-20210915DL

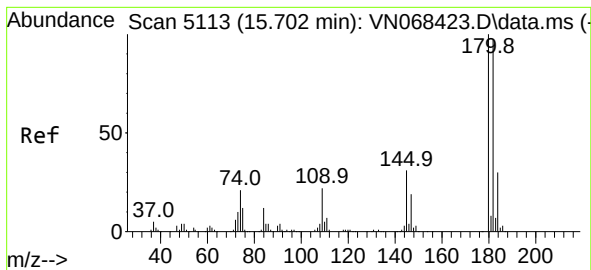
Tgt Ion:	180	Resp:	781
Ion	Ratio	Lower	Upper
180	100		
182	87.7	47.5	142.6
145	15.1	14.1	42.4



#95
Naphthalene
Concen: 3.803 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN068566.D
Acq: 20 Sep 2021 20:00

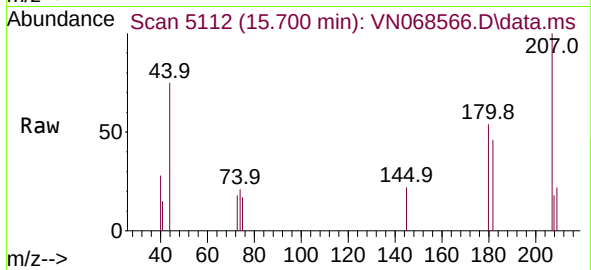
Tgt Ion:	128	Resp:	2716
Ion	Ratio	Lower	Upper
128	100		
127	7.6	10.6	15.8#
129	0.0	8.6	13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.115 ug/l
 RT: 15.700 min Scan# 5112
 Delta R.T. -0.002 min
 Lab File: VN068566.D
 Acq: 20 Sep 2021 20:00

Instrument :
 MSVOA_N
 ClientSampleId :
 MW179D2-20210915DL



Tgt Ion:	180	Resp:	548
Ion	Ratio	Lower	Upper
180	100		
182	128.1	47.9	143.6
145	23.5	15.2	45.5

