

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032222\
 Data File : VN071489.D
 Acq On : 23 Mar 2022 01:48
 Operator : JC\MD
 Sample : N1972-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 23 07:14:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

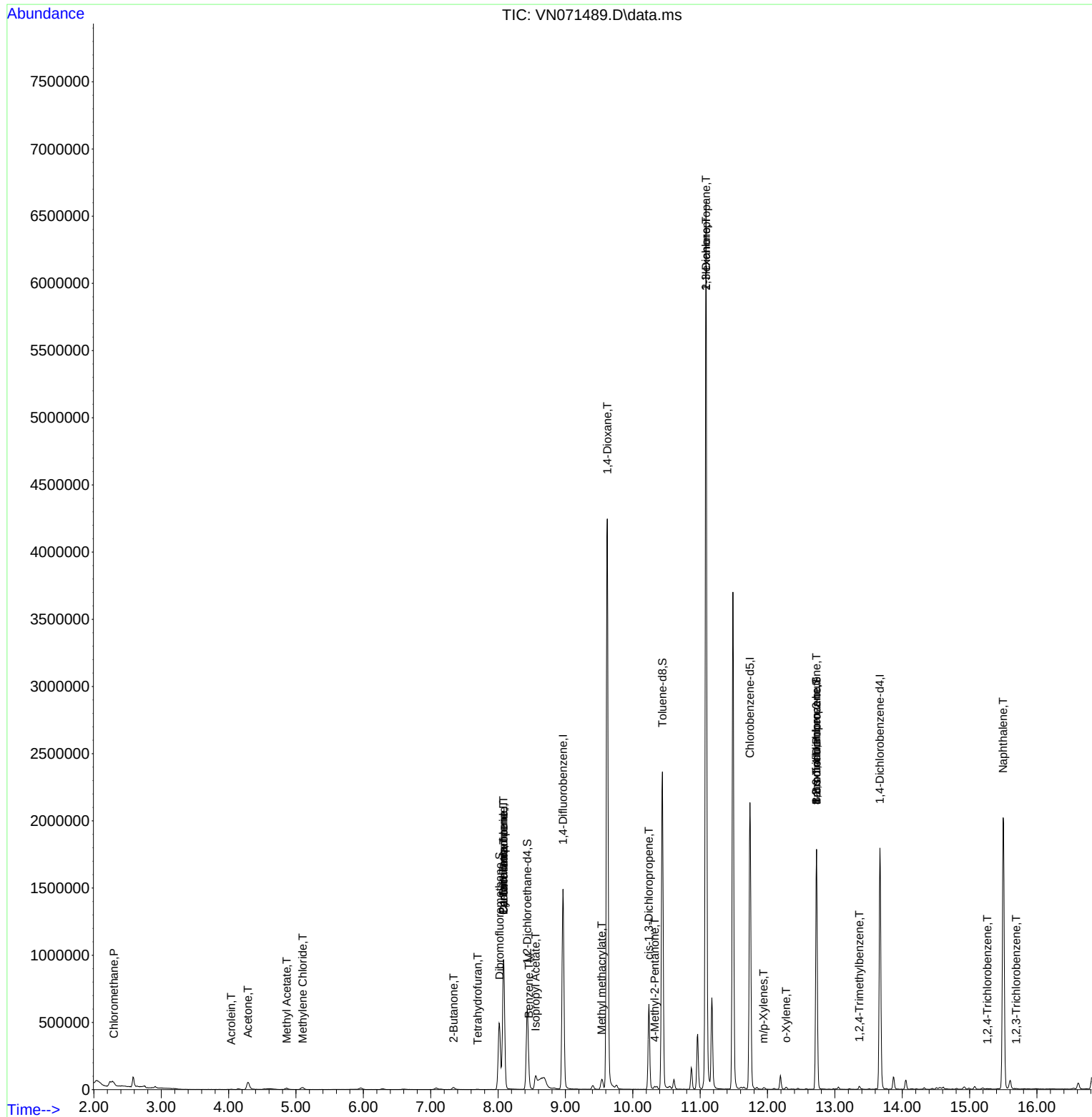
Internal Standards						
1) Pentafluorobenzene	8.081	168	733024	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1278561	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1237208	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	483859	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	485447	48.321	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.640%
35) Dibromofluoromethane	8.022	113	368873	45.720	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	91.440%
50) Toluene-d8	10.439	98	1599791	49.247	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.500%
62) 4-Bromofluorobenzene	12.727	95	611243	55.567	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	111.140%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	4565	0.389	ug/l	96
5) Bromomethane	2.851	94	407	Below Cal	#	77
13) Acrolein	4.040	56	2301	1.102	ug/l	# 73
16) Acetone	4.287	43	102987	21.068	ug/l	98
18) Methyl Acetate	4.863	43	21635	2.103	ug/l	# 90
20) Methylene Chloride	5.098	84	11455	1.654	ug/l	93
25) 2-Butanone	7.339	43	28979	3.680	ug/l	94
29) Tetrahydrofuran	7.698	42	1281	0.235	ug/l	# 72
31) Cyclohexane	8.081	56	15648	0.975	ug/l	# 1
36) 1,1-Dichloropropene	8.081	75	59776	4.624	ug/l	# 49
38) Carbon Tetrachloride	8.081	117	72372	5.788	ug/l	# 15
40) Benzene	8.457	78	17478	0.449	ug/l	99
43) Isopropyl Acetate	8.557	43	133773	5.028	ug/l	# 76
48) Methyl methacrylate	9.539	41	23243	1.885	ug/l	# 8
49) 1,4-Dioxane	9.622	88	562	2.622	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.327	43	14597	0.884	ug/l	93
54) cis-1,3-Dichloropropene	10.239	75	109533	6.993	ug/l	# 59
57) 1,3-Dichloropropane	11.086	76	65346	3.788	ug/l	# 43
59) 2-Hexanone	11.086	43	1030136	91.442	ug/l	# 49
68) m/p-Xylenes	11.939	106	4226	0.246	ug/l	87
69) o-Xylene	12.274	106	4236	0.246	ug/l	98
71) Bromoform	12.727	173	3764	0.509	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.827	83	169	Below Cal	#	67
76) 1,2,3-Trichloropropane	12.727	75	315053	25.481	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.727	75	315053	70.386	ug/l	# 5
84) 1,2,4-Trimethylbenzene	13.363	105	13490	0.388	ug/l	92
93) 1,2,4-Trichlorobenzene	15.262	180	940	3.101	ug/l	# 88
95) Naphthalene	15.498	128	1850387	80.034	ug/l	99
96) 1,2,3-Trichlorobenzene	15.692	180	1072	2.865	ug/l	# 91

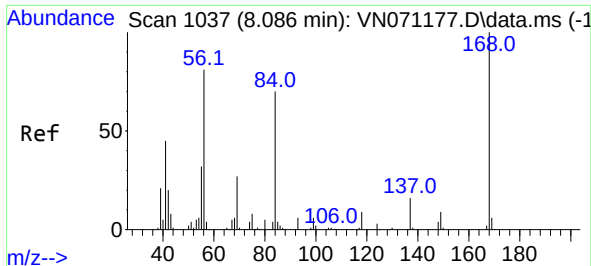
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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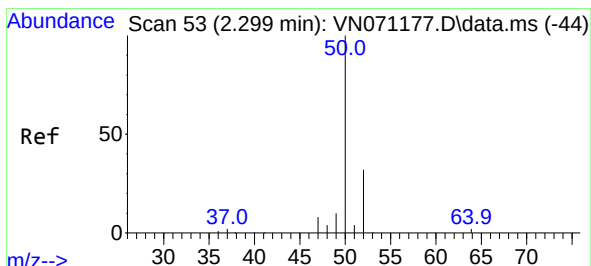
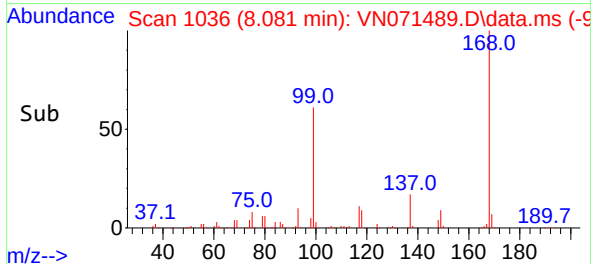
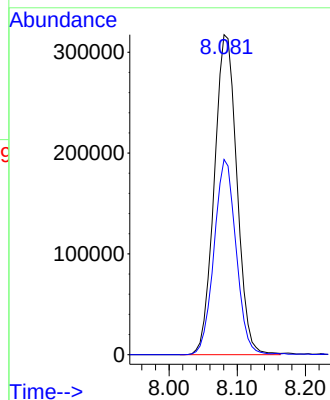
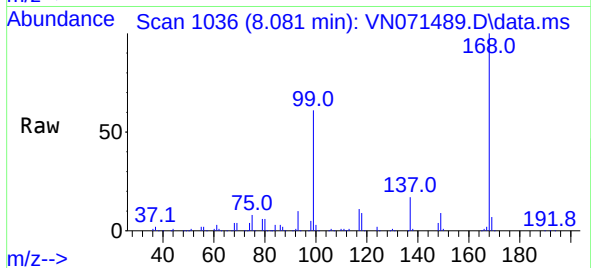




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.005 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

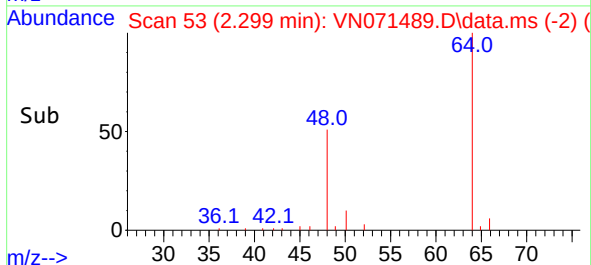
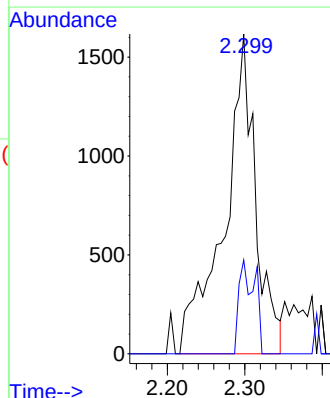
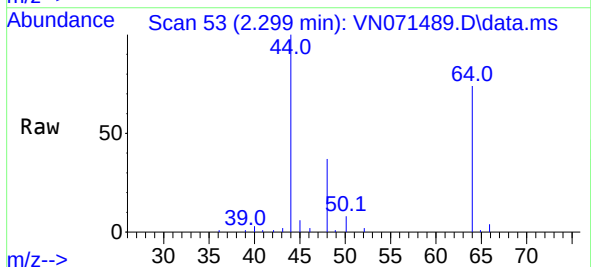
Instrument :
MSVOA_N
ClientSampleId :

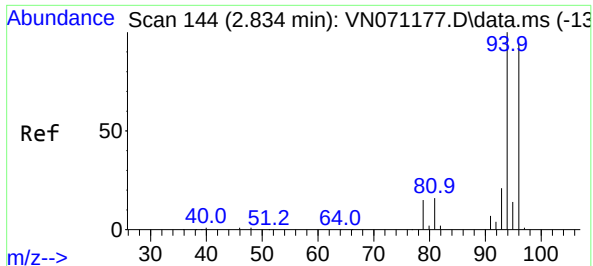
Tgt Ion:168 Resp: 733024
Ion Ratio Lower Upper
168 100
99 61.0 41.3 61.9



#3
Chloromethane
Concen: 0.389 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

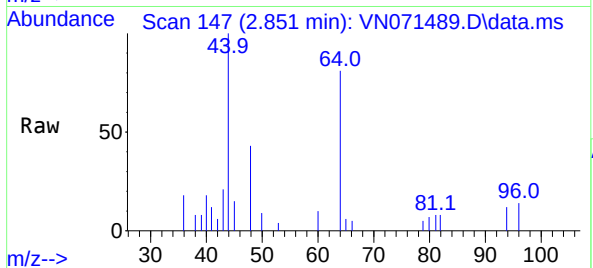
Tgt Ion: 50 Resp: 4565
Ion Ratio Lower Upper
50 100
52 29.3 25.4 38.0



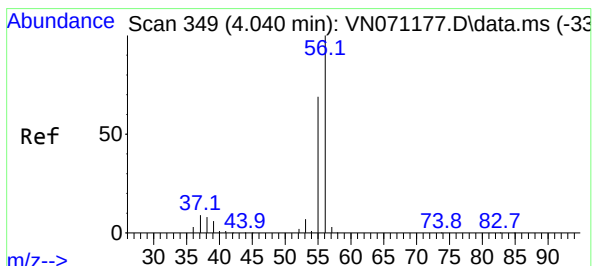
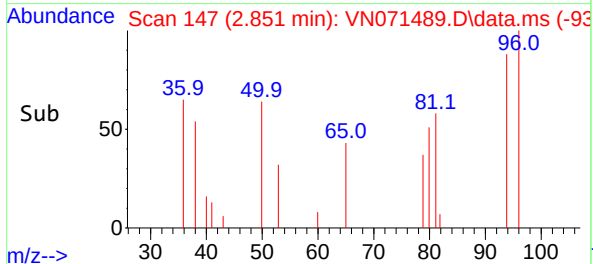
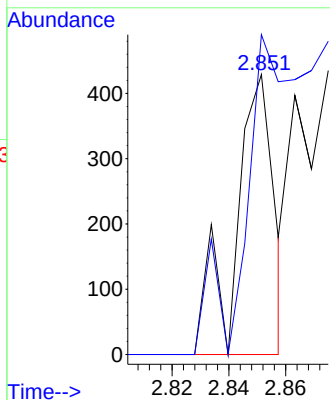


#5
Bromomethane
Concen: Below Cal
RT: 2.851 min Scan# 14
Delta R.T. 0.017 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Instrument :
MSVOA_N
ClientSampleId :

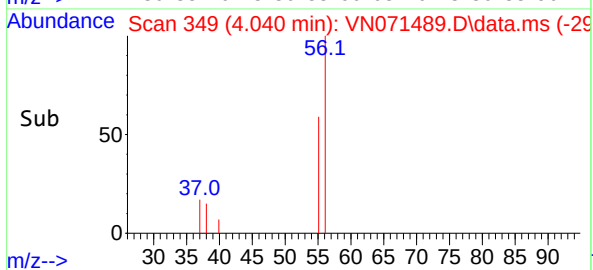
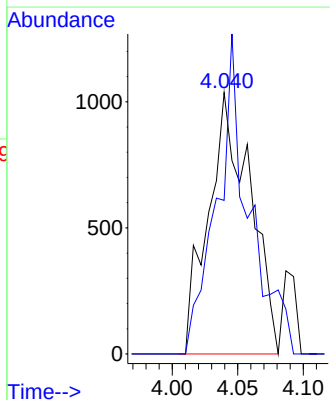
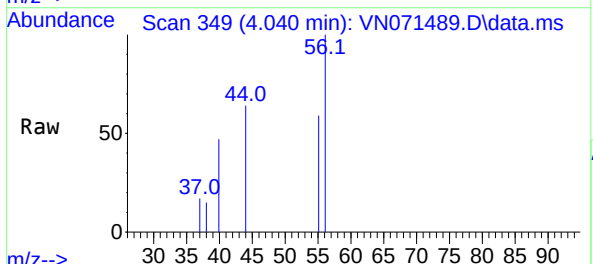


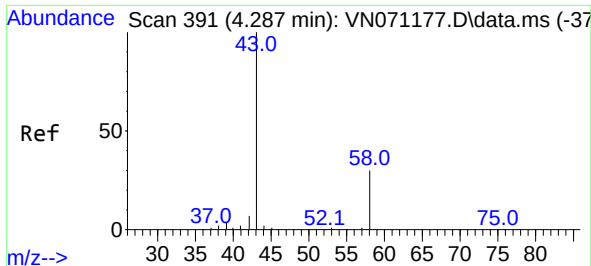
Tgt Ion: 94 Resp: 407
Ion Ratio Lower Upper
94 100
96 114.2 73.8 110.8#



#13
Acrolein
Concen: 1.102 ug/l
RT: 4.040 min Scan# 349
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion: 56 Resp: 2301
Ion Ratio Lower Upper
56 100
55 93.1 56.6 85.0#

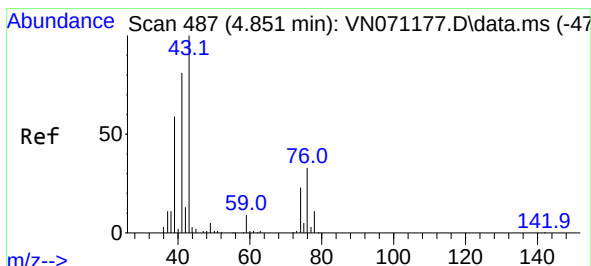
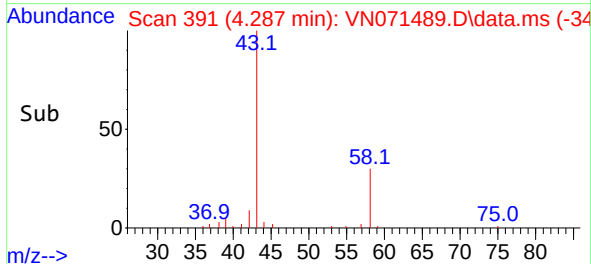
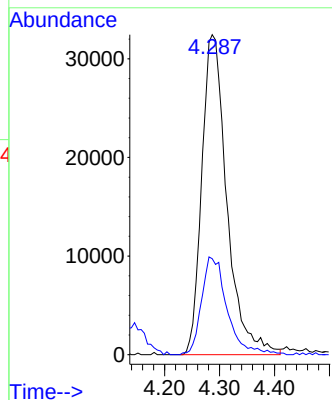
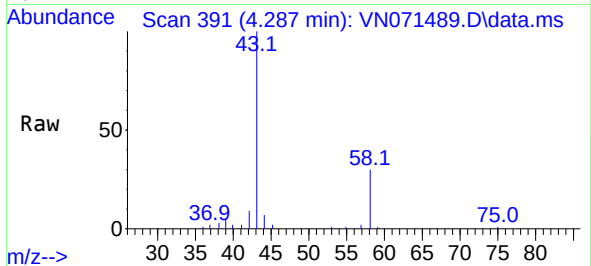




#16
Acetone
Concen: 21.068 ug/l
RT: 4.287 min Scan# 391
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

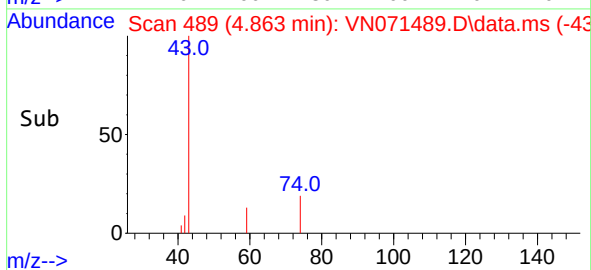
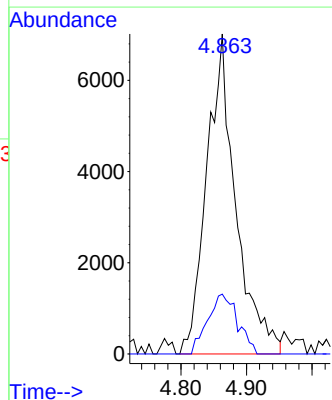
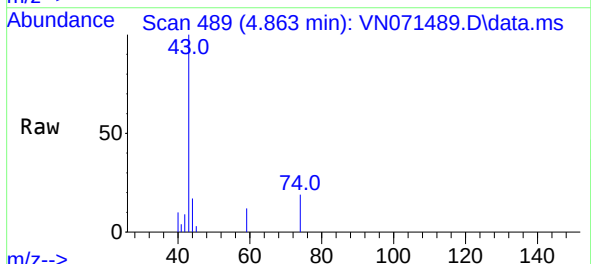
Instrument :
MSVOA_N
ClientSampleId :

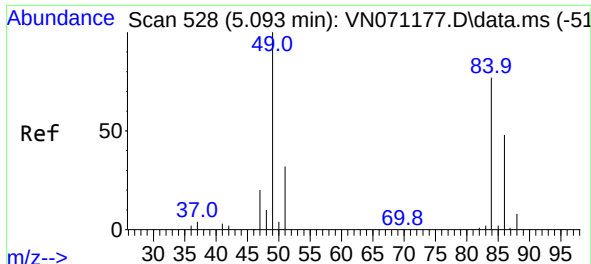
Tgt Ion: 43 Resp: 102987
Ion Ratio Lower Upper
43 100
58 30.0 23.1 34.7



#18
Methyl Acetate
Concen: 2.103 ug/l
RT: 4.863 min Scan# 489
Delta R.T. 0.012 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

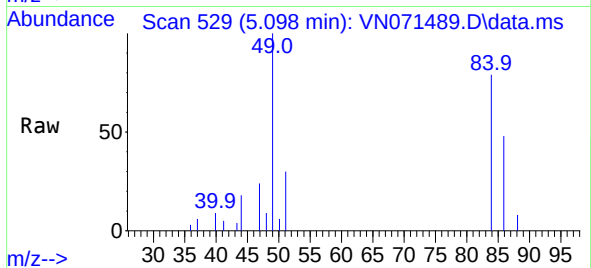
Tgt Ion: 43 Resp: 21635
Ion Ratio Lower Upper
43 100
74 19.3 19.4 29.2#





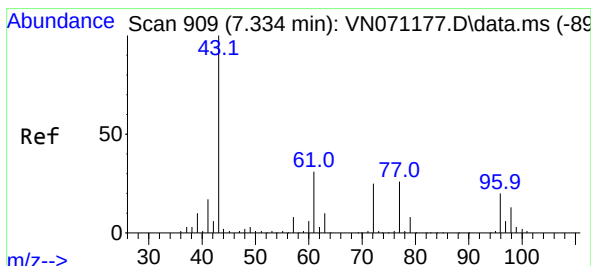
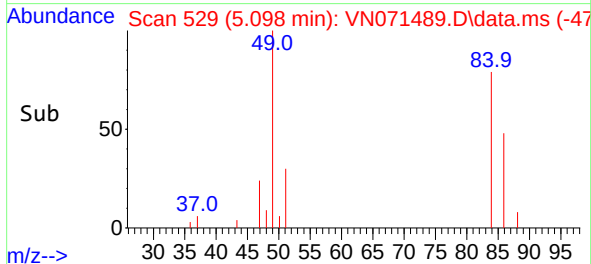
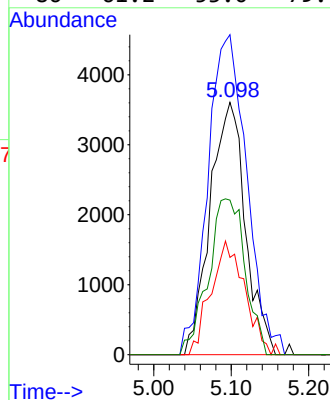
#20
Methylene Chloride
Concen: 1.654 ug/l
RT: 5.098 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 11455

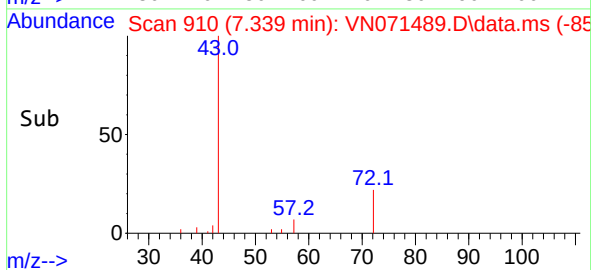
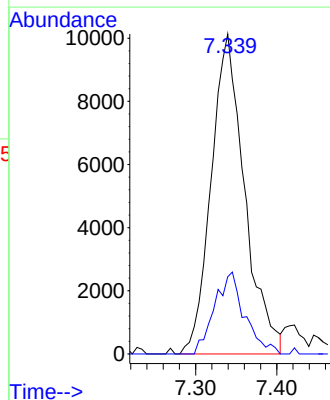
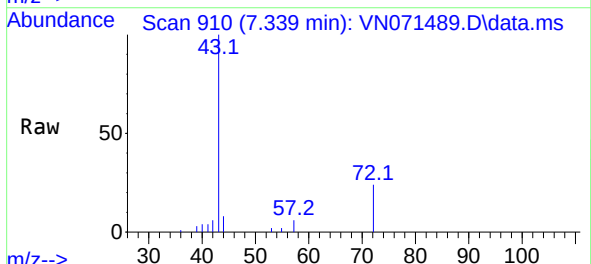
Ion	Ratio	Lower	Upper
84	100		
49	126.8	93.5	140.3
51	38.6	29.4	44.2
86	61.2	53.0	79.4

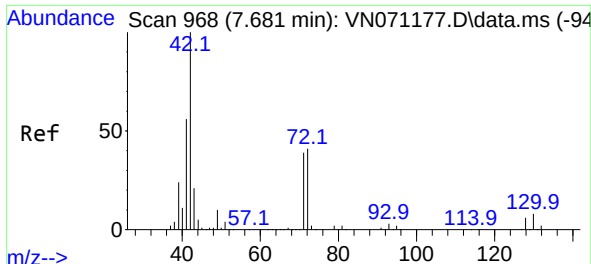


#25
2-Butanone
Concen: 3.680 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.006 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion: 43 Resp: 28979

Ion	Ratio	Lower	Upper
43	100		
72	24.1	21.7	32.5

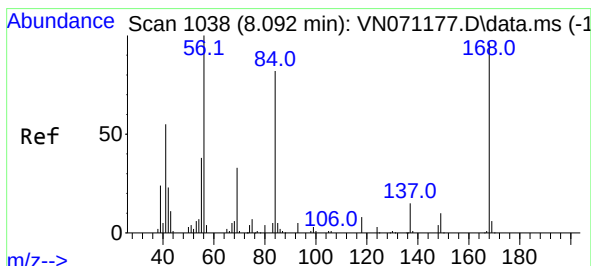
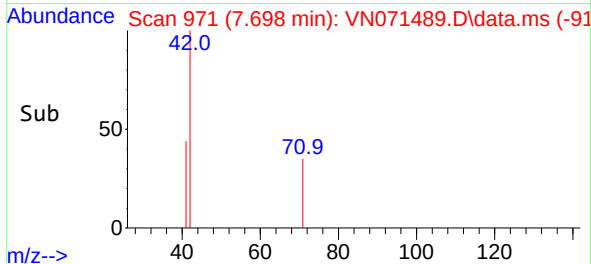
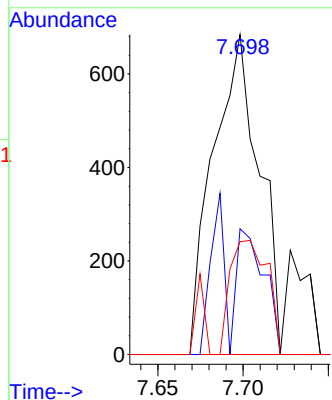
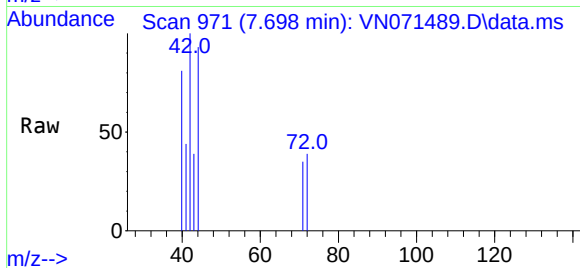




#29
Tetrahydrofuran
Concen: 0.235 ug/l
RT: 7.698 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

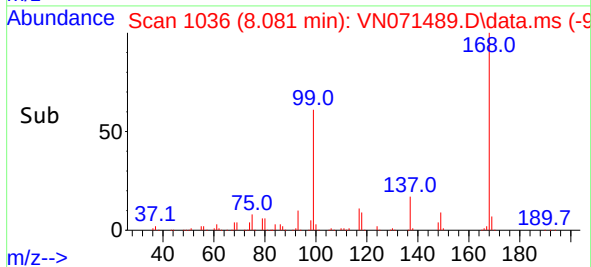
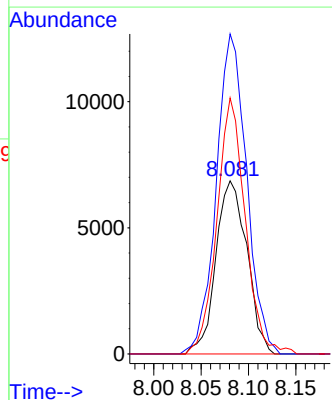
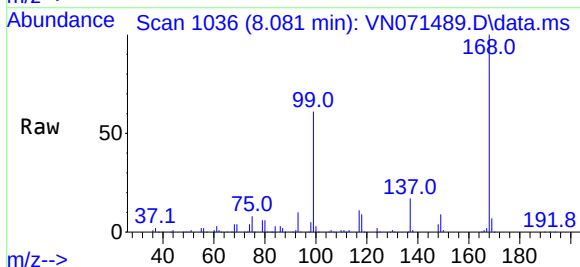
Instrument :
MSVOA_N
ClientSampleId :

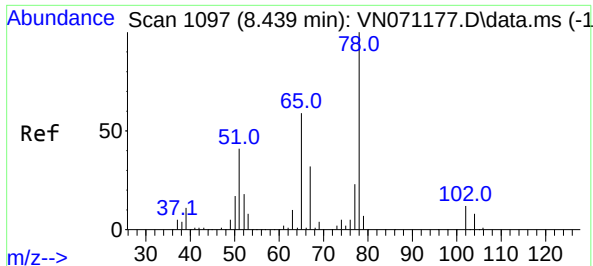
Tgt Ion: 42 Resp: 1281
Ion Ratio Lower Upper
42 100
72 23.7 36.3 54.5#
71 29.0 34.7 52.1#



#31
Cyclohexane
Concen: 0.975 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.012 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion: 56 Resp: 15648
Ion Ratio Lower Upper
56 100
69 184.9 27.1 40.7#
84 147.9 73.4 110.0#

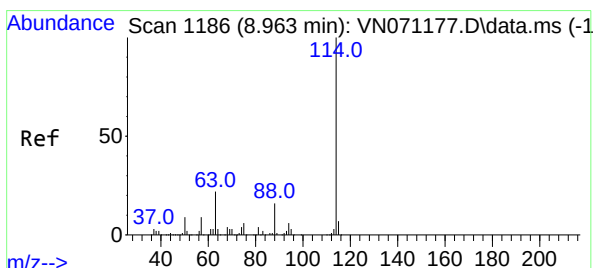
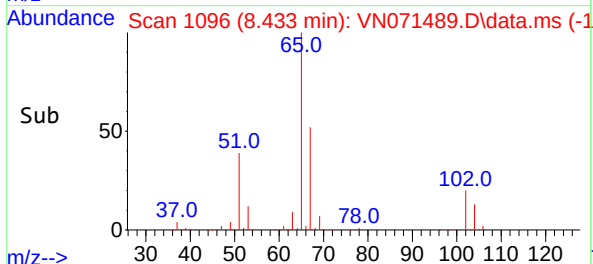
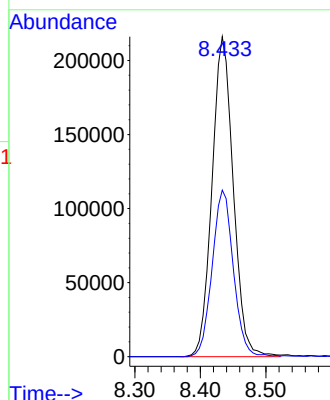
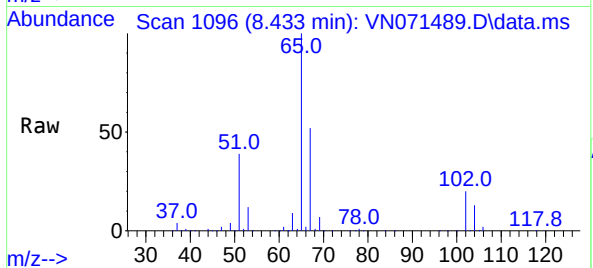




#33
1,2-Dichloroethane-d4
Concen: 48.321 ug/l
RT: 8.433 min Scan# 1097
Delta R.T. -0.006 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

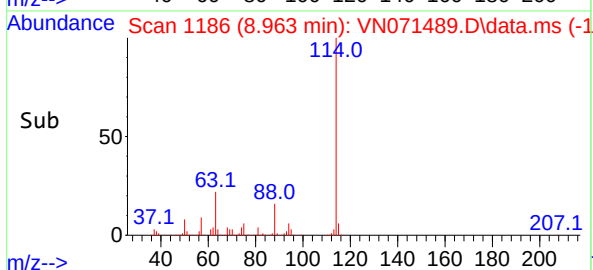
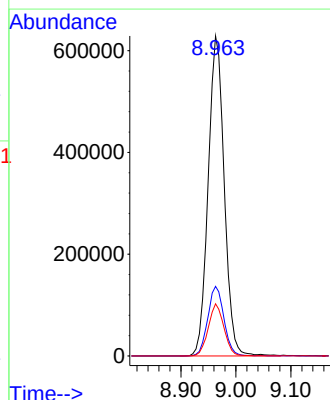
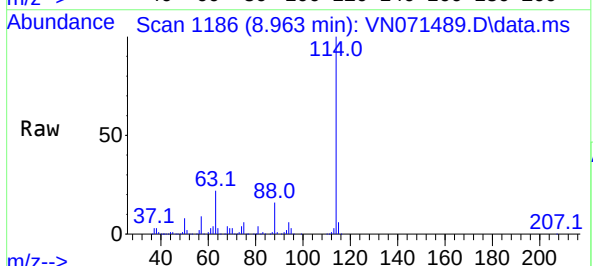
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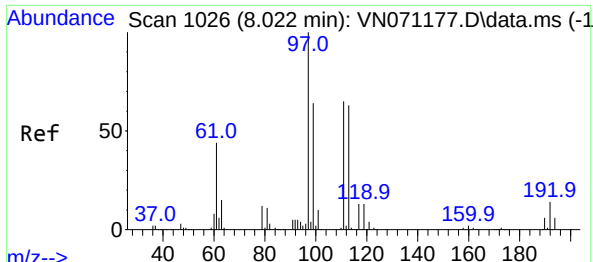
Tgt Ion: 65 Resp: 485447
Ion Ratio Lower Upper
65 100
67 52.2 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

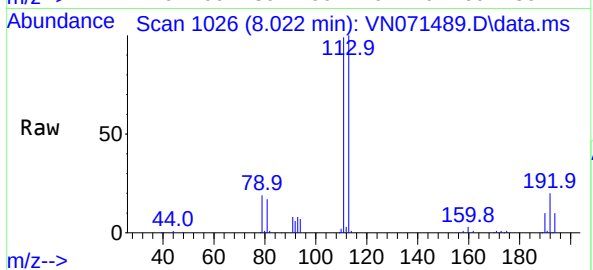
Tgt Ion:114 Resp: 1278561
Ion Ratio Lower Upper
114 100
63 21.7 0.0 37.8
88 16.3 0.0 27.4



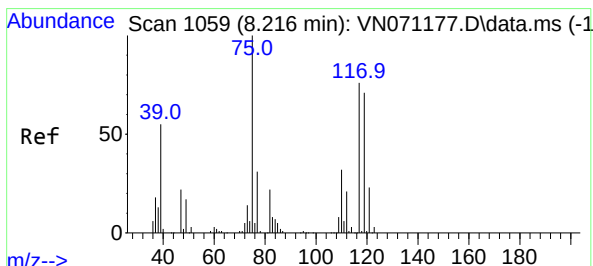
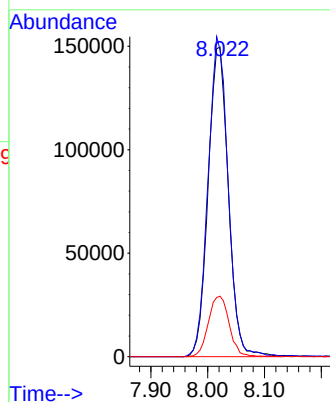
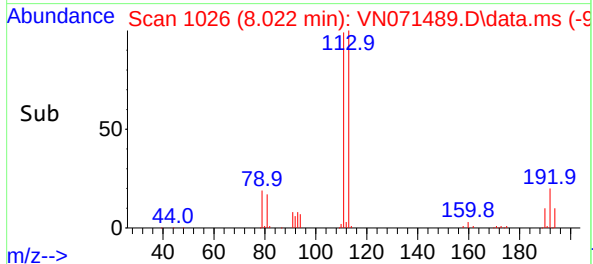


#35
Dibromofluoromethane
Concen: 45.720 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

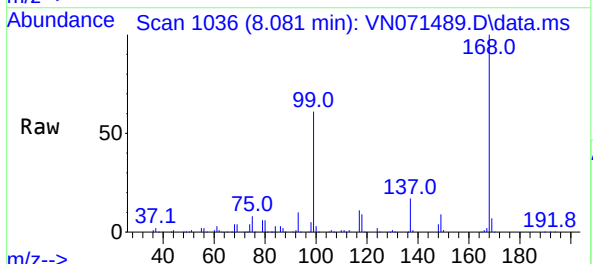
Instrument :
MSVOA_N
ClientSampleId :



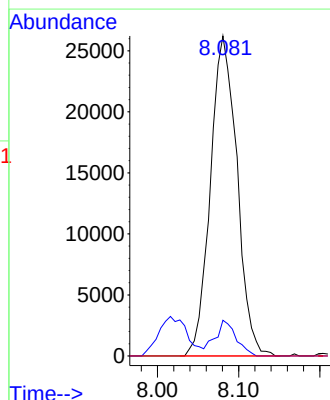
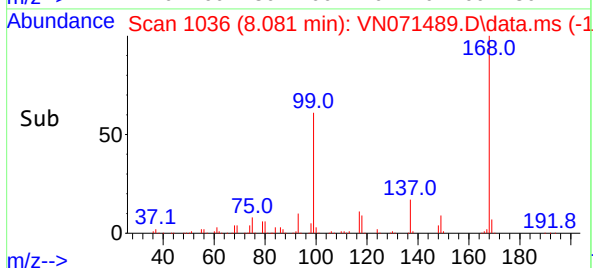
Tgt Ion:113 Resp: 368873
Ion Ratio Lower Upper
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111 102.5 82.2 123.2
192 20.2 16.9 25.3

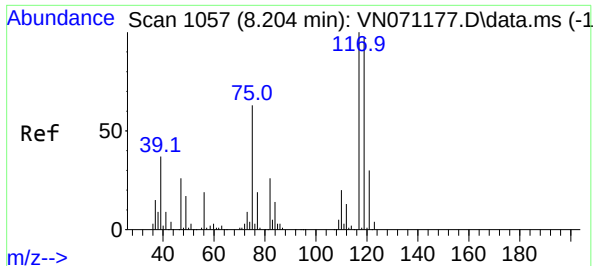


#36
1,1-Dichloropropene
Concen: 4.624 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48



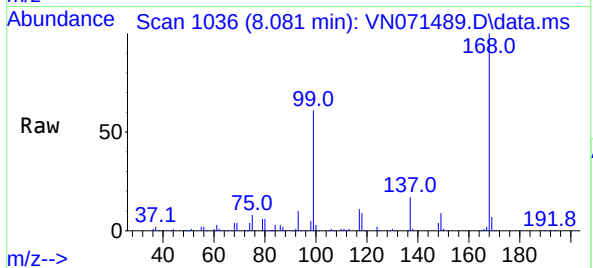
Tgt Ion: 75 Resp: 59776
Ion Ratio Lower Upper
75 100
110 8.7 18.4 55.2#
77 0.0 24.4 36.6#



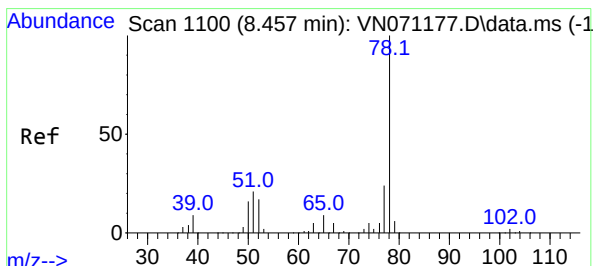
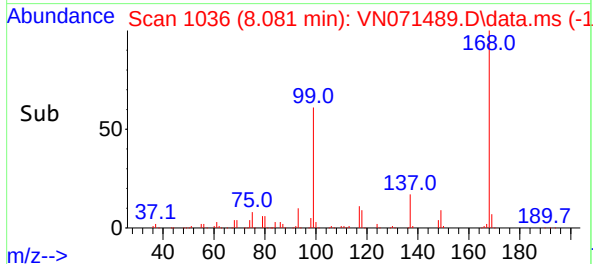
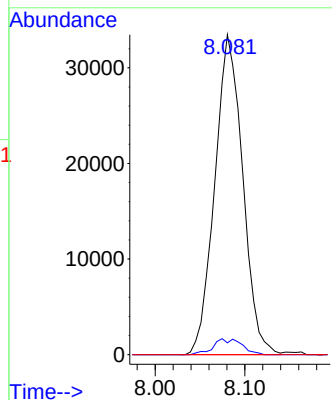


#38
Carbon Tetrachloride
Concen: 5.788 ug/l
RT: 8.081 min Scan# 1100
Delta R.T. -0.124 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Instrument :
MSVOA_N
ClientSampleId :

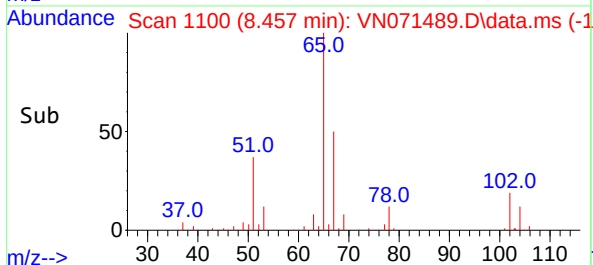
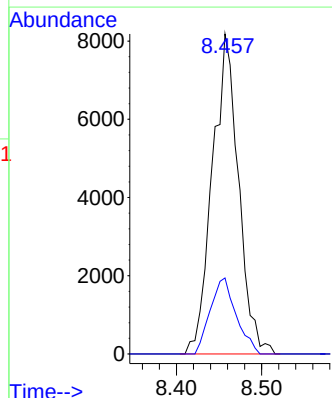
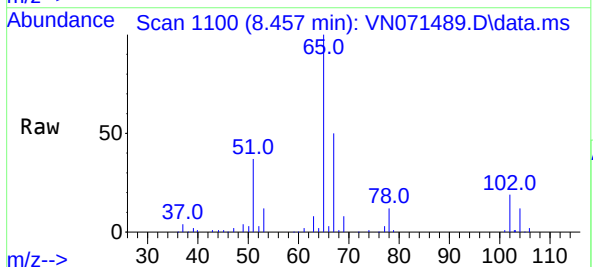


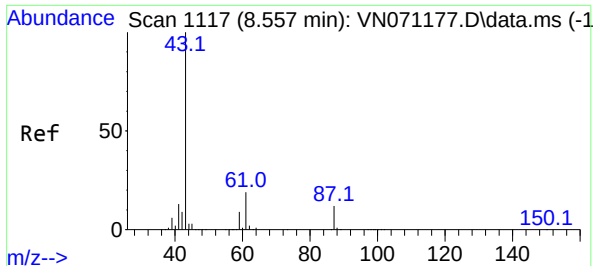
Tgt Ion:117 Resp: 72372
Ion Ratio Lower Upper
117 100
119 3.7 76.1 114.1#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 0.449 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

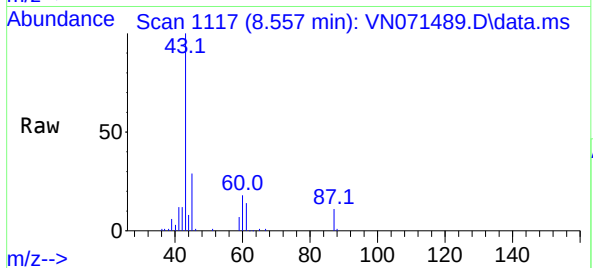
Tgt Ion: 78 Resp: 17478
Ion Ratio Lower Upper
78 100
77 23.8 18.6 27.8



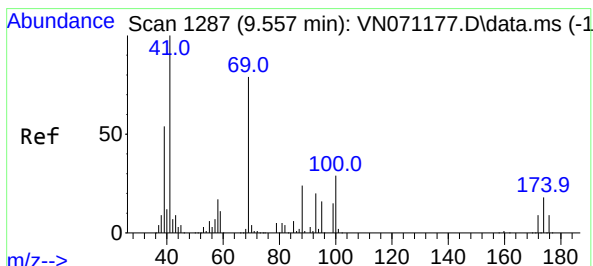
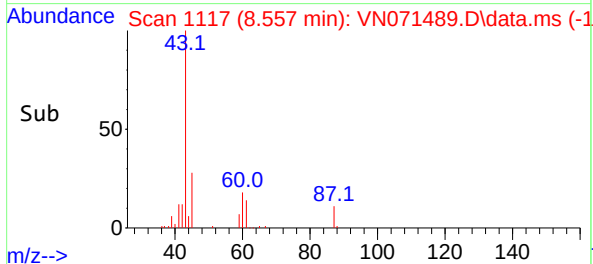
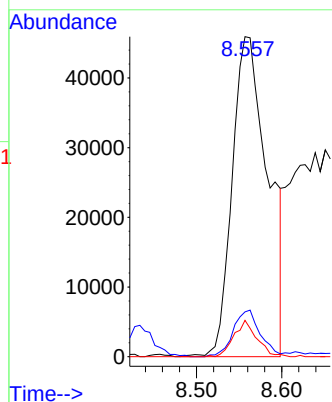


#43
Isopropyl Acetate
Concen: 5.028 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Instrument :
MSVOA_N
ClientSampleId :

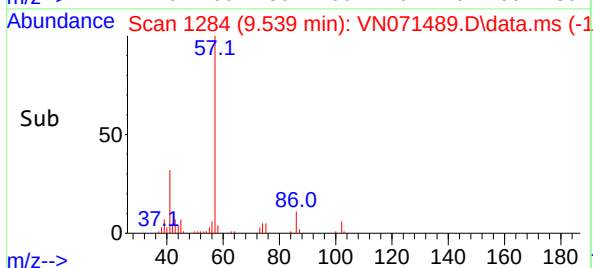
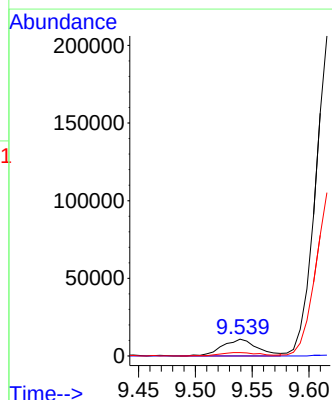
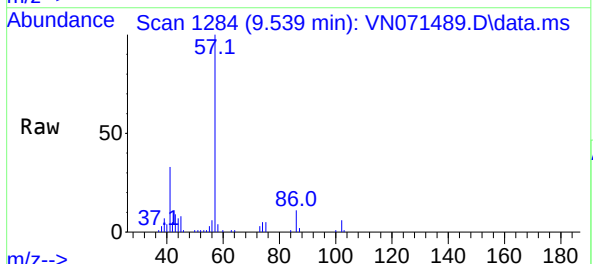


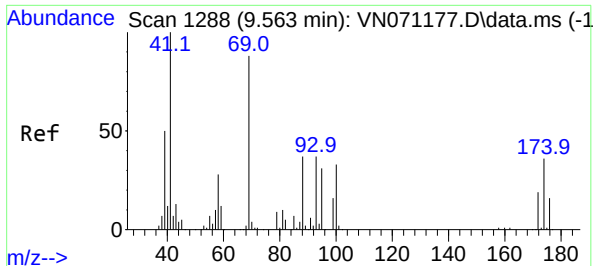
Tgt Ion: 43 Resp: 133773
Ion Ratio Lower Upper
43 100
61 11.2 20.4 30.6#
87 7.3 11.2 16.8#



#48
Methyl methacrylate
Concen: 1.885 ug/l
RT: 9.539 min Scan# 1284
Delta R.T. -0.018 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion: 41 Resp: 23243
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 58.4 87.6#

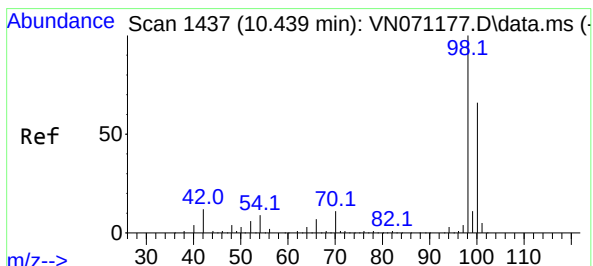
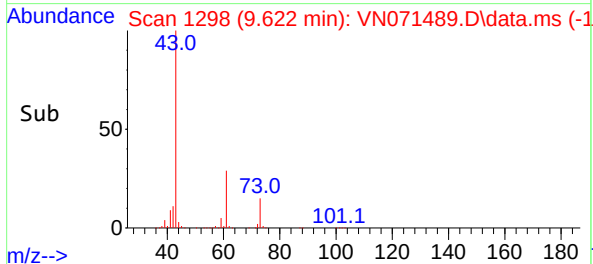
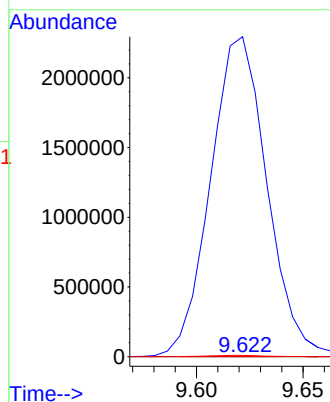
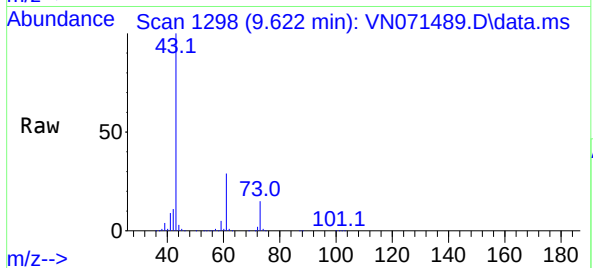




#49
1,4-Dioxane
Concen: 2.622 ug/l
RT: 9.622 min Scan# 1298
Delta R.T. 0.059 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

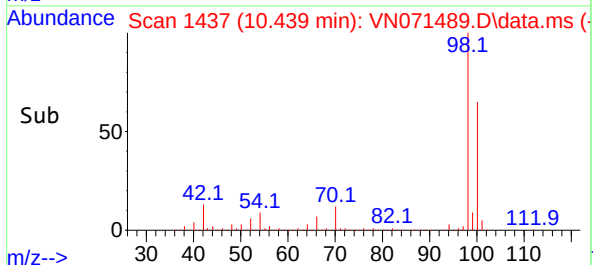
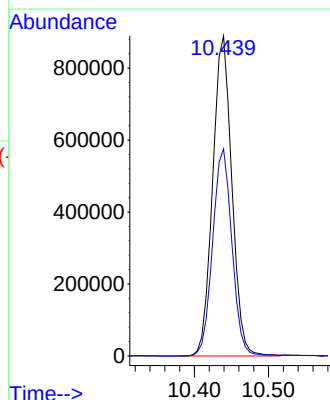
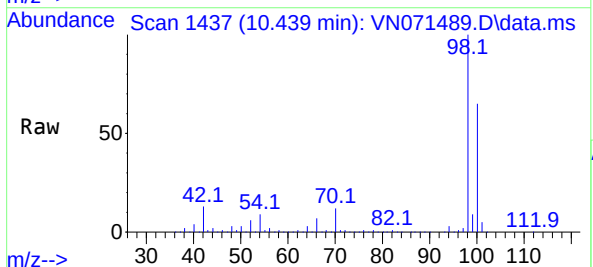
Instrument :
MSVOA_N
ClientSampleId :

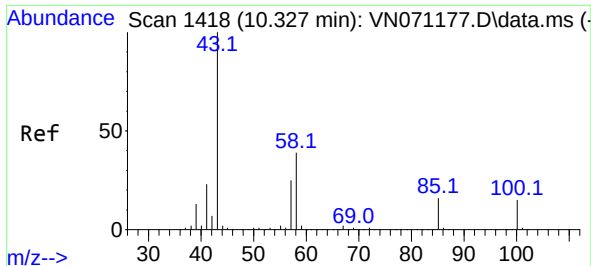
Tgt Ion: 88 Resp: 562
Ion Ratio Lower Upper
88 100
43 766199.6 23.4 35.2#
58 3147.3 50.6 75.8#



#50
Toluene-d8
Concen: 49.247 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion: 98 Resp: 1599791
Ion Ratio Lower Upper
98 100
100 65.0 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.884 ug/l

RT: 10.327 min Scan# 1418

Delta R.T. 0.000 min

Lab File: VN071489.D

Acq: 23 Mar 2022 01:48

Instrument :

MSVOA_N

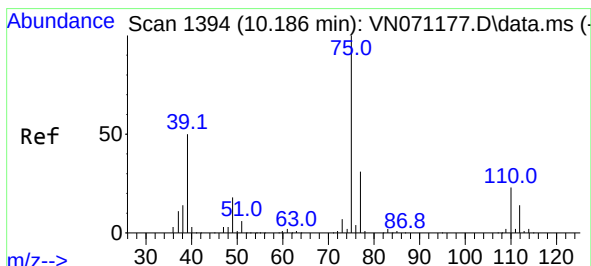
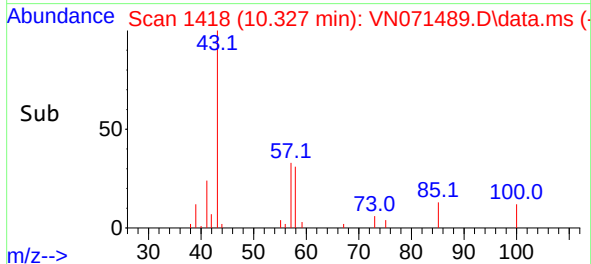
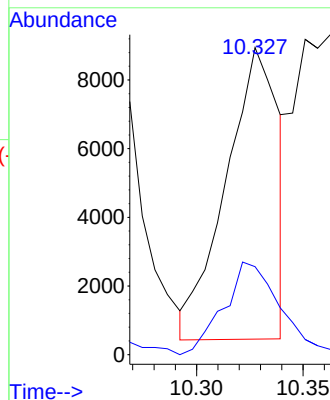
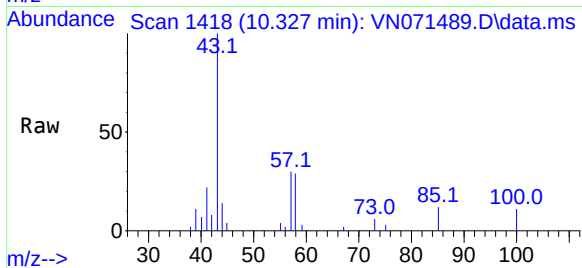
ClientSampleId :

Tgt Ion: 43 Resp: 14597

Ion Ratio Lower Upper

43 100

58 33.8 30.4 45.6



#54

cis-1,3-Dichloropropene

Concen: 6.993 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.053 min

Lab File: VN071489.D

Acq: 23 Mar 2022 01:48

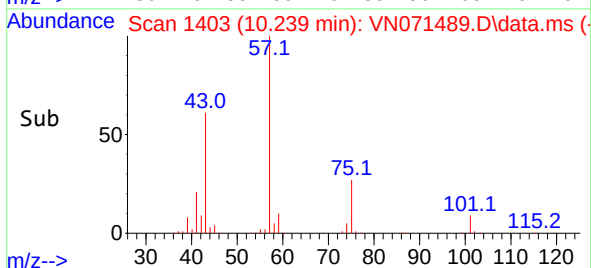
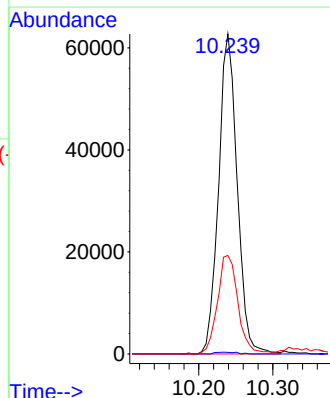
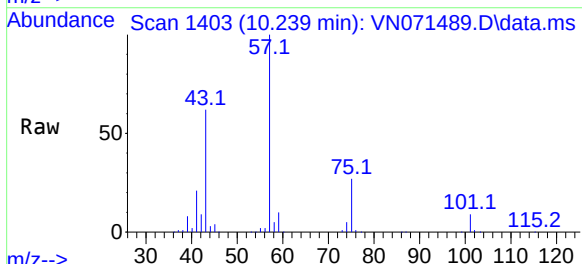
Tgt Ion: 75 Resp: 109533

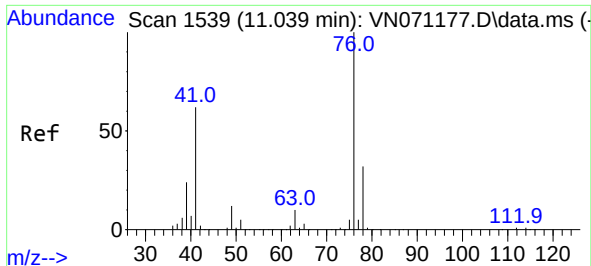
Ion Ratio Lower Upper

75 100

77 0.5 26.4 39.6#

39 30.8 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 3.788 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN071489.D

Acq: 23 Mar 2022 01:48

Instrument :

MSVOA_N

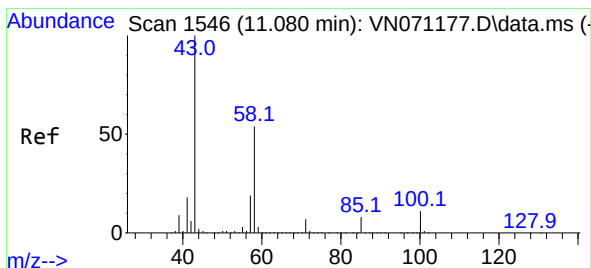
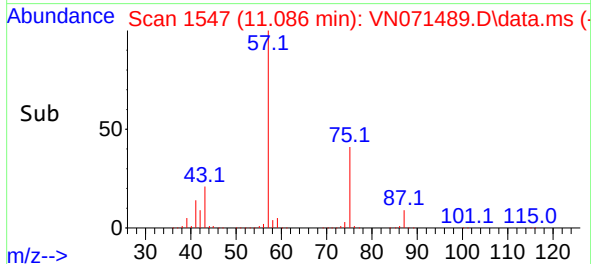
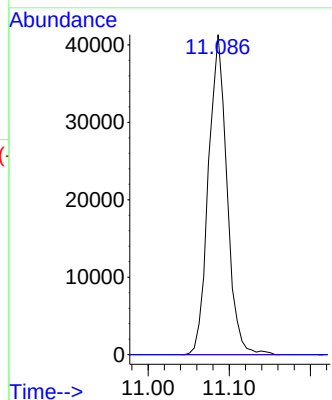
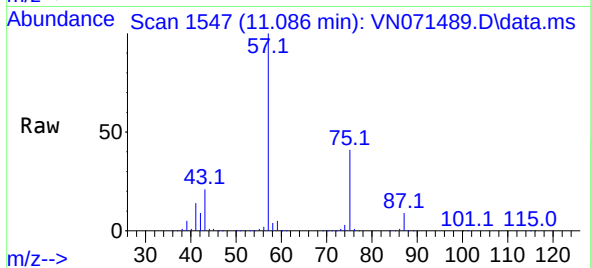
ClientSampleId :

Tgt Ion: 76 Resp: 65346

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 91.442 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN071489.D

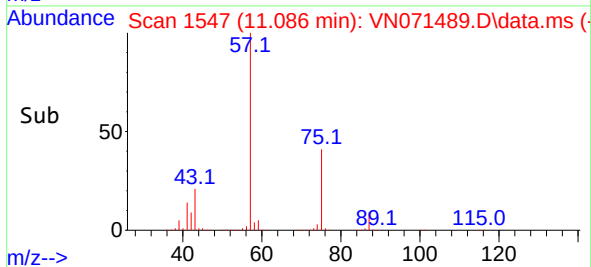
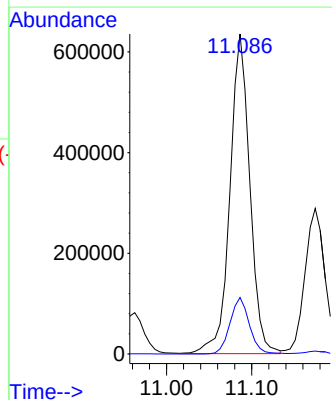
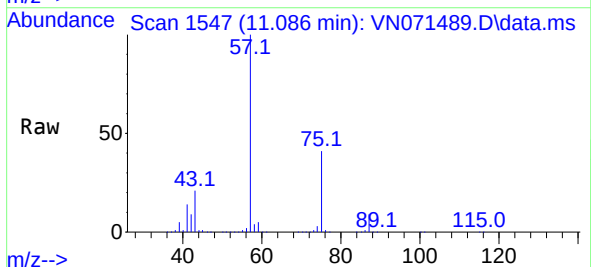
Acq: 23 Mar 2022 01:48

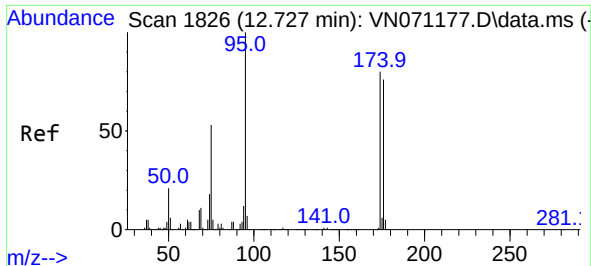
Tgt Ion: 43 Resp: 1030136

Ion Ratio Lower Upper

43 100

58 17.2 26.9 80.7#

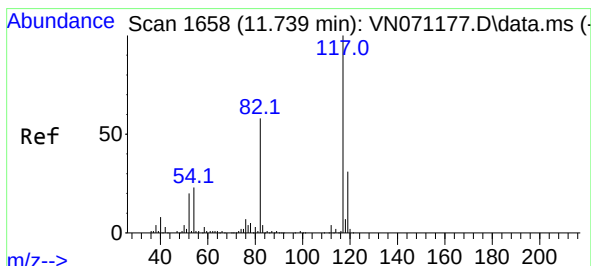
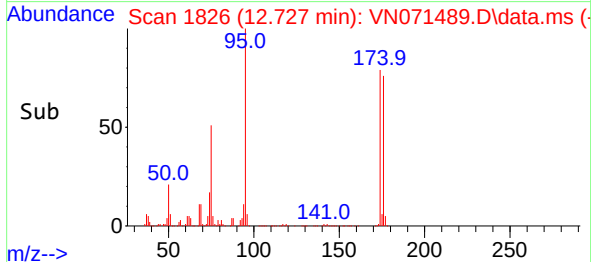
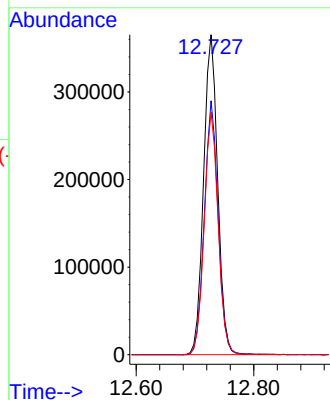
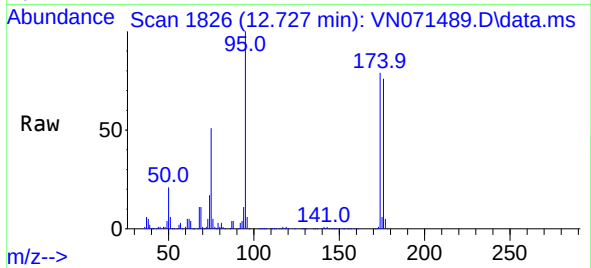




#62
4-Bromofluorobenzene
Concen: 55.567 ug/l
RT: 12.727 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

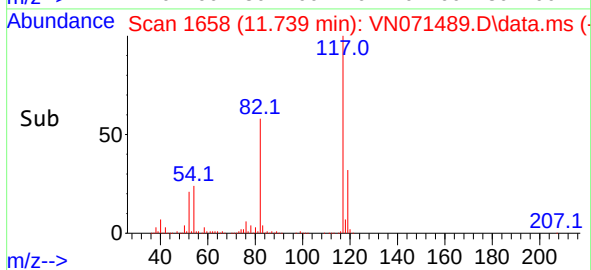
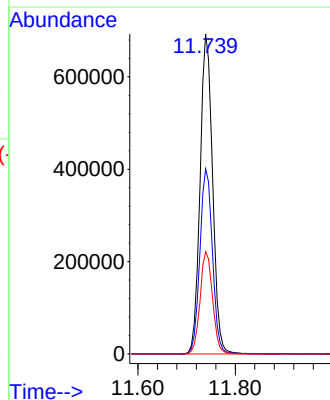
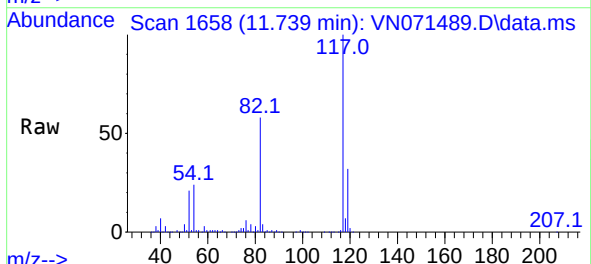
Instrument :
MSVOA_N
ClientSampleId :

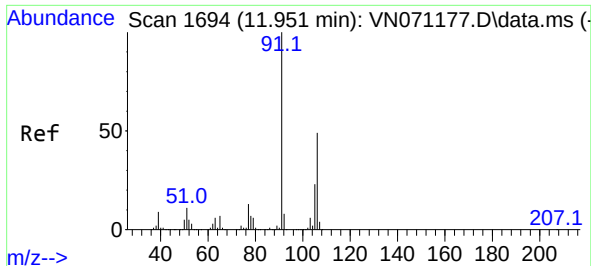
Tgt Ion: 95 Resp: 611243
Ion Ratio Lower Upper
95 100
174 77.7 0.0 187.2
176 74.5 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion: 117 Resp: 1237208
Ion Ratio Lower Upper
117 100
82 57.9 42.4 63.6
119 32.0 25.4 38.2

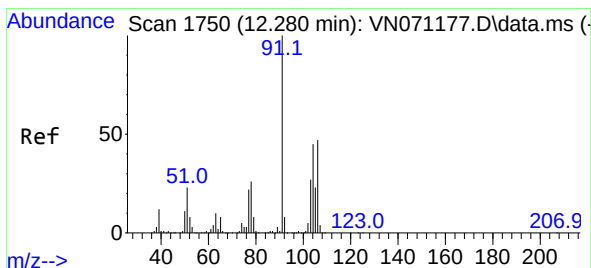
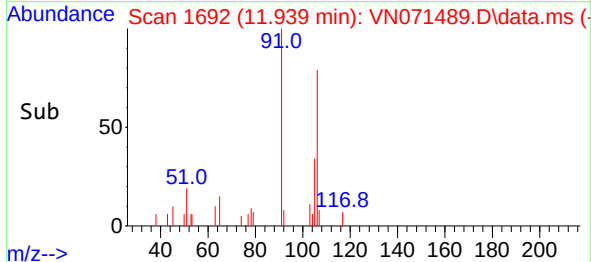
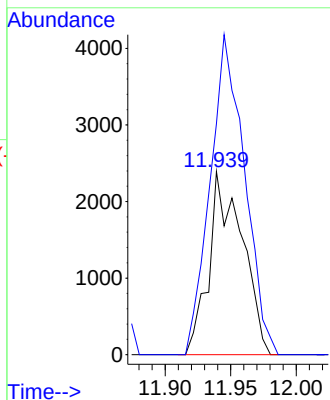
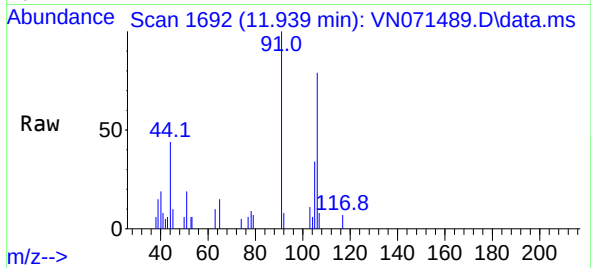




#68
m/p-Xylenes
Concen: 0.246 ug/l
RT: 11.939 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

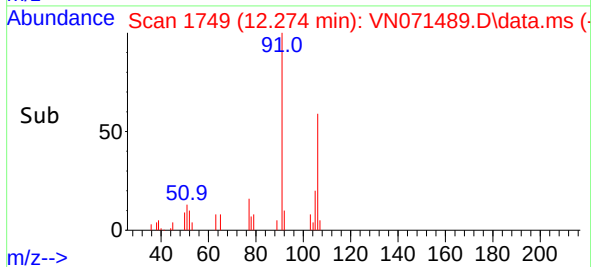
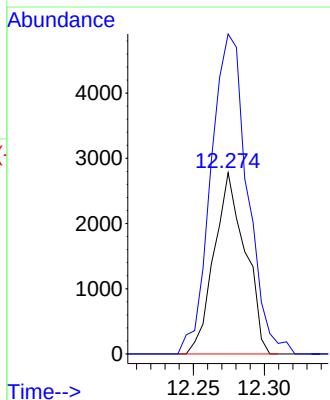
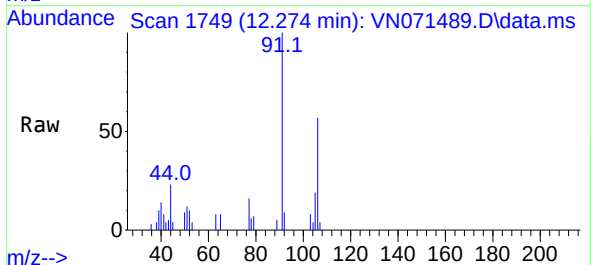
Instrument :
MSVOA_N
ClientSampleId :

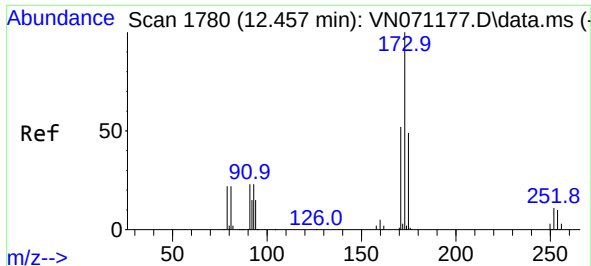
Tgt Ion:106 Resp: 4226
Ion Ratio Lower Upper
106 100
91 181.0 160.6 240.8



#69
o-Xylene
Concen: 0.246 ug/l
RT: 12.274 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion:106 Resp: 4236
Ion Ratio Lower Upper
106 100
91 207.7 105.8 317.3

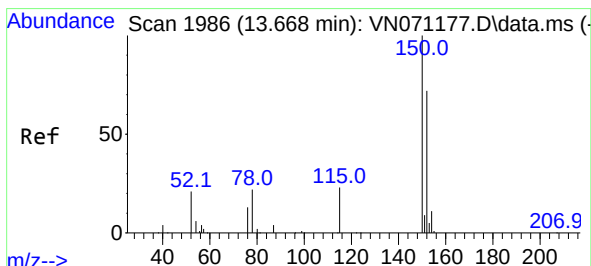
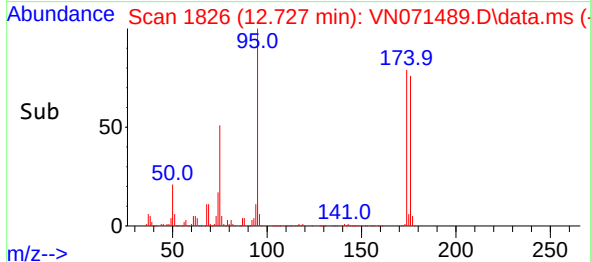
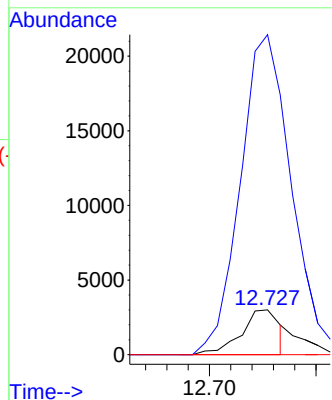
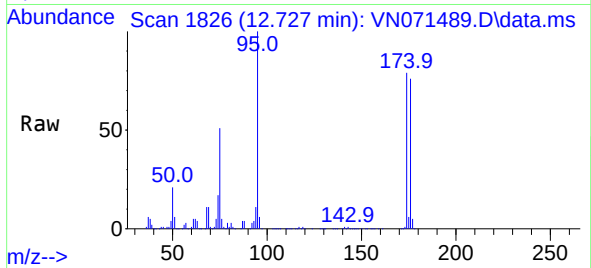




#71
Bromoform
Concen: 0.509 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.270 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

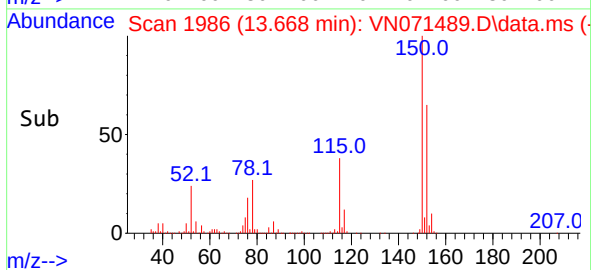
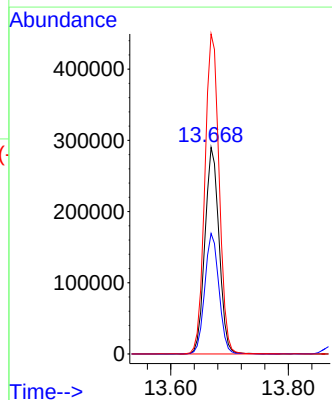
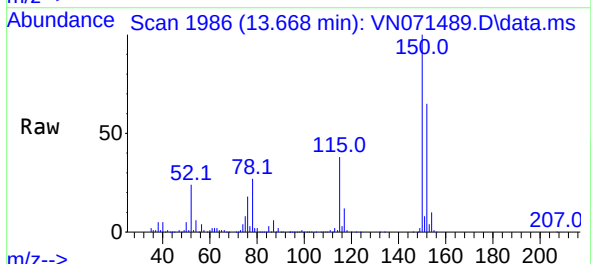
Instrument :
MSVOA_N
ClientSampleId :

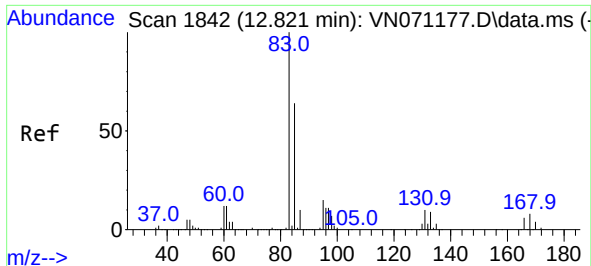
Tgt Ion:173 Resp: 3764
Ion Ratio Lower Upper
173 100
175 758.8 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion:152 Resp: 483859
Ion Ratio Lower Upper
152 100
115 58.5 27.5 82.5
150 156.5 0.0 344.4

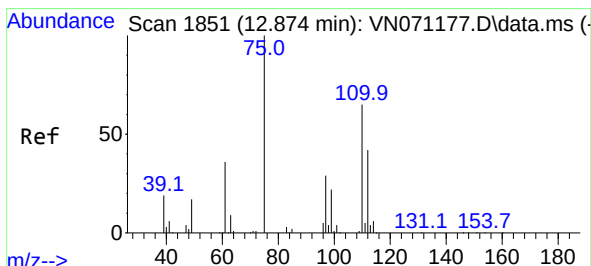
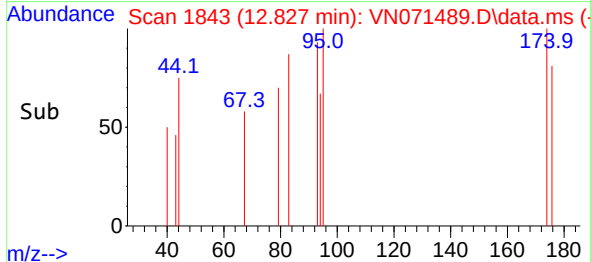
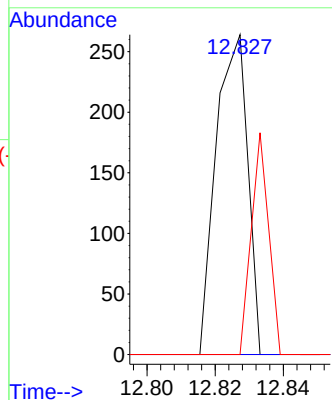
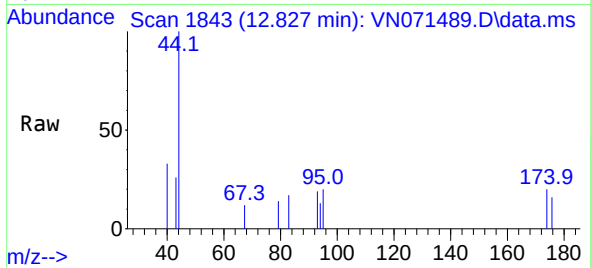




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.827 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

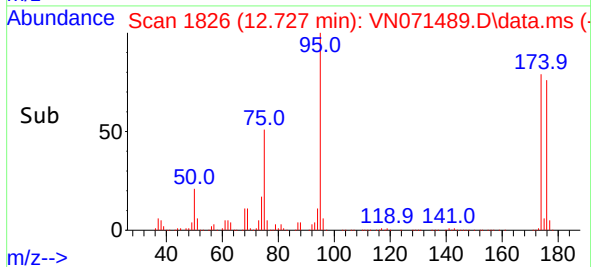
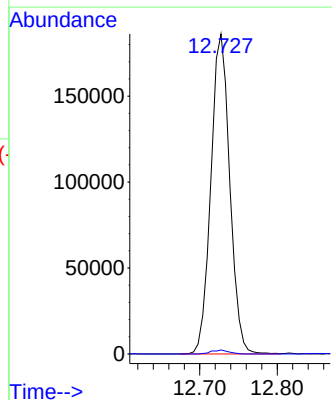
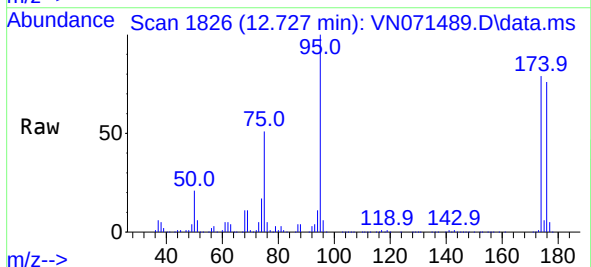
Instrument :
MSVOA_N
ClientSampleId :

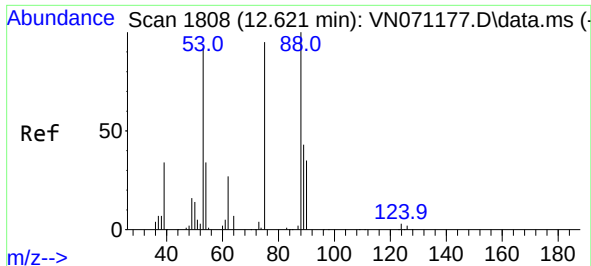
Tgt Ion: 83 Resp: 169
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.5#
85 38.5 32.4 97.2



#76
1,2,3-Trichloropropane
Concen: 25.481 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

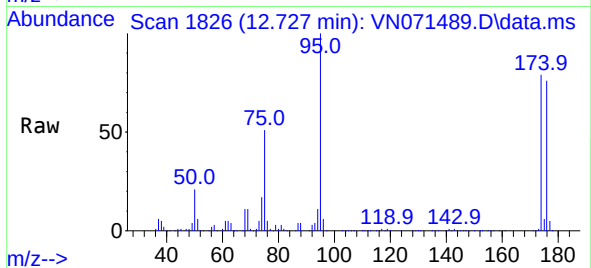
Tgt Ion: 75 Resp: 315053
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



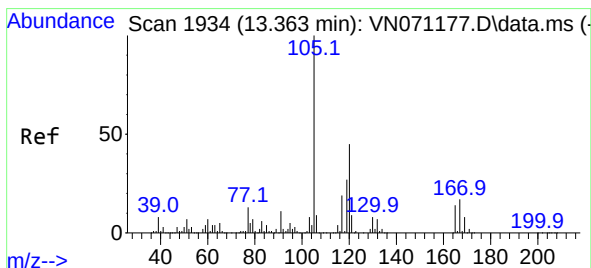
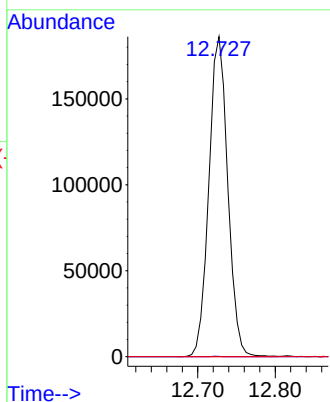
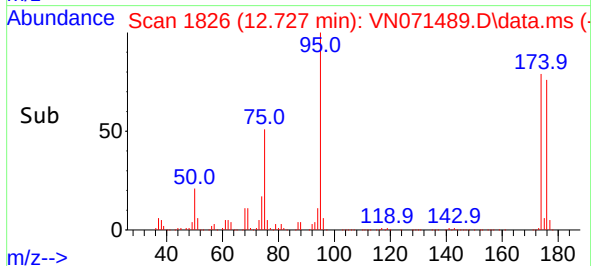


#81
trans-1,4-Dichloro-2-butene
Concen: 70.386 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Instrument :
MSVOA_N
ClientSampleId :

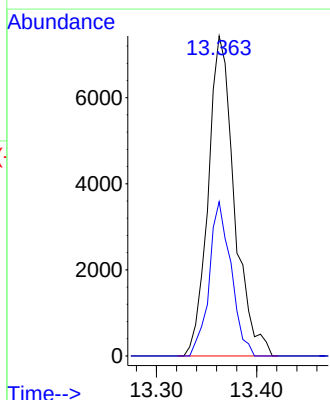
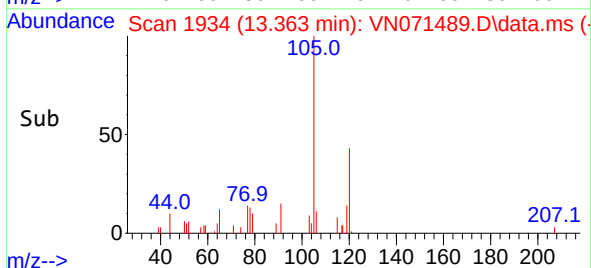
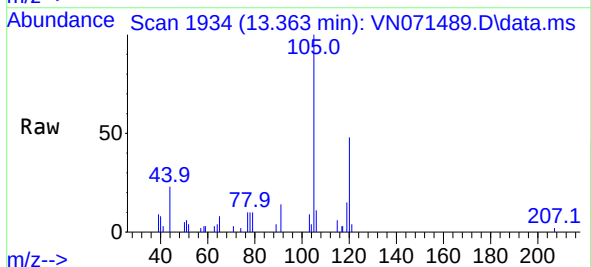


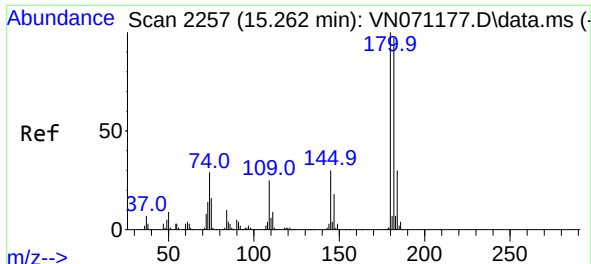
Tgt Ion: 75 Resp: 315053
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.388 ug/l
RT: 13.363 min Scan# 1934
Delta R.T. -0.000 min
Lab File: VN071489.D
Acq: 23 Mar 2022 01:48

Tgt Ion: 105 Resp: 13490
Ion Ratio Lower Upper
105 100
120 40.3 22.8 68.4





#93

1,2,4-Trichlorobenzene

Concen: 3.101 ug/l

RT: 15.262 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN071489.D

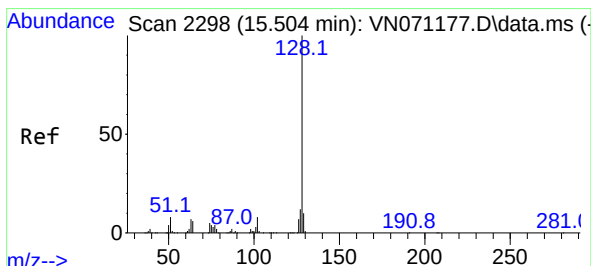
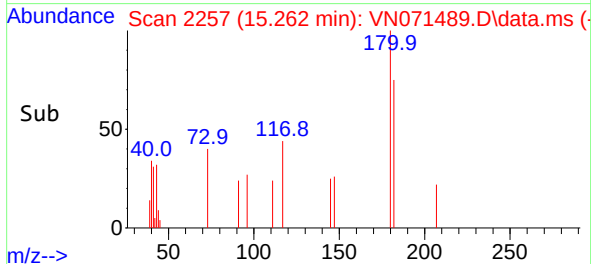
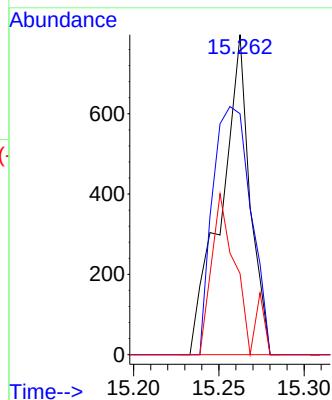
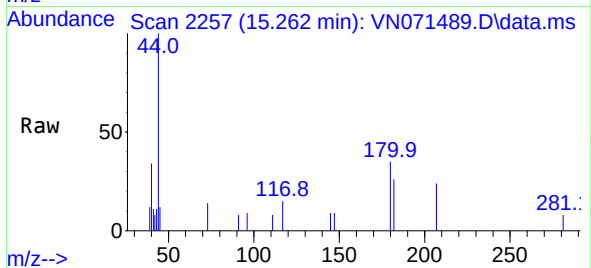
Acq: 23 Mar 2022 01:48

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	180	Resp:	940
Ion	Ratio	Lower	Upper
180	100		
182	102.3	48.3	144.9
145	45.4	14.5	43.5#



#95

Naphthalene

Concen: 80.034 ug/l

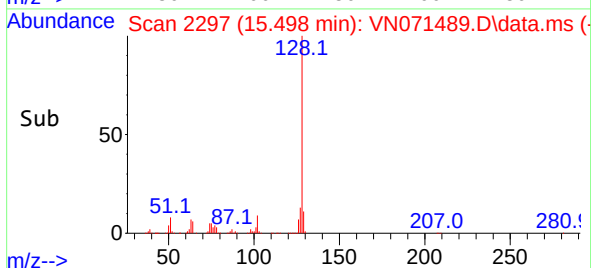
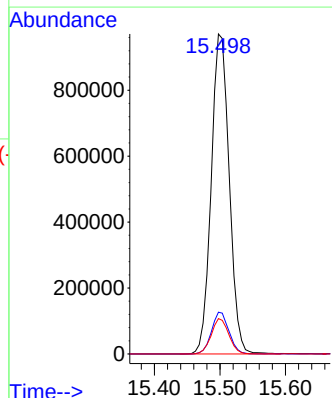
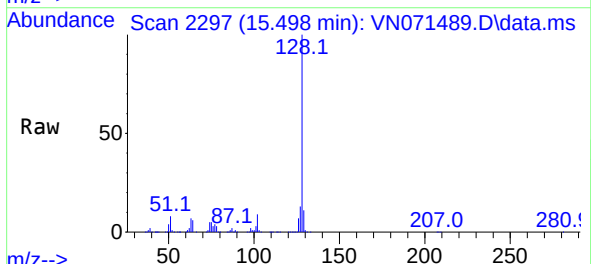
RT: 15.498 min Scan# 2297

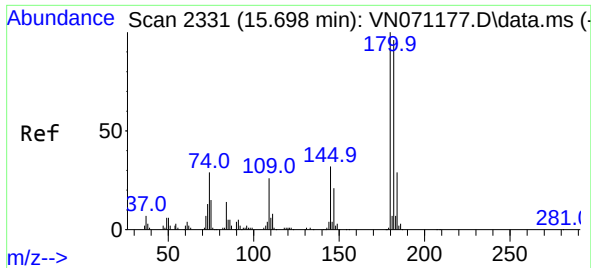
Delta R.T. -0.006 min

Lab File: VN071489.D

Acq: 23 Mar 2022 01:48

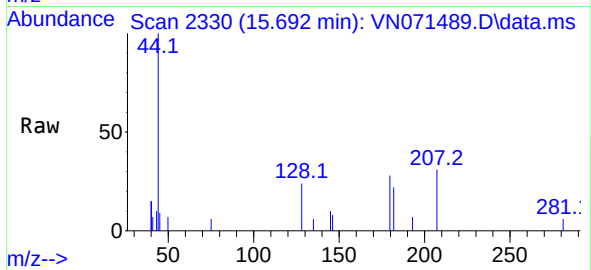
Tgt Ion:	128	Resp:	1850387
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	10.8	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 2.865 ug/l
 RT: 15.692 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN071489.D
 Acq: 23 Mar 2022 01:48

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1072
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.4	142.2
145	48.8	15.0	45.1#

