

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022522\
 Data File : VN071078.D
 Acq On : 25 Feb 2022 18:34
 Operator : JC\MD
 Sample : N1664-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

Quant Time: Feb 26 03:44:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 07:57:15 2022
 Response via : Initial Calibration

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

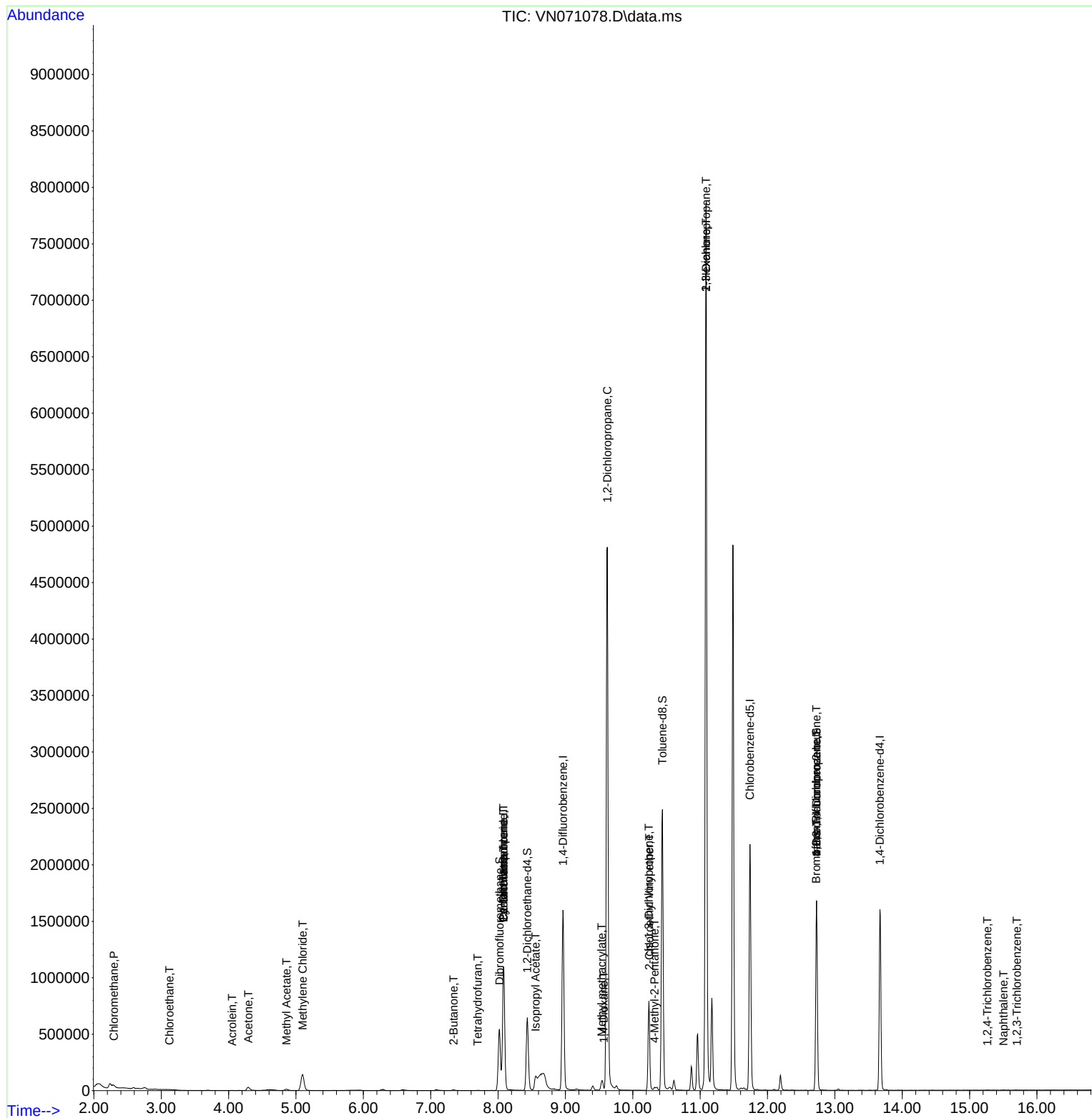
Internal Standards						
1) Pentafluorobenzene	8.081	168	854578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1387153	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1248500	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	448584	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	527486	54.035	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 108.060%	
35) Dibromofluoromethane	8.022	113	399368	48.404	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 96.800%	
50) Toluene-d8	10.439	98	1708348	51.558	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 103.120%	
62) 4-Bromofluorobenzene	12.727	95	582967	49.222	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 98.440%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	2873	0.258	ug/l #	87
6) Chloroethane	3.122	64	2699	0.368	ug/l #	60
13) Acrolein	4.051	56	665	0.418	ug/l #	45
16) Acetone	4.293	43	52550	9.775	ug/l	91
18) Methyl Acetate	4.857	43	26544	1.673	ug/l	93
20) Methylene Chloride	5.098	84	111767	11.439	ug/l	91
25) 2-Butanone	7.339	43	10771	1.506	ug/l	99
29) Tetrahydrofuran	7.698	42	1919	0.414	ug/l #	38
31) Cyclohexane	8.081	56	17421	1.032	ug/l #	15
36) 1,1-Dichloropropene	8.081	75	65449	4.842	ug/l #	48
38) Carbon Tetrachloride	8.081	117	85167	6.394	ug/l #	16
43) Isopropyl Acetate	8.557	43	155405	6.801	ug/l #	78
45) 1,2-Dichloropropane	9.622	63	6225	0.608	ug/l #	44
48) Methyl methacrylate	9.539	41	24515	2.267	ug/l #	8
49) 1,4-Dioxane	9.569	88	121	0.630	ug/l #	1
51) 4-Methyl-2-Pentanone	10.322	43	11097	0.798	ug/l #	58
54) cis-1,3-Dichloropropene	10.239	75	140171	8.617	ug/l #	59
57) 1,3-Dichloropropane	11.086	76	81366	4.783	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.245	63	55	31.815	ug/l #	45
59) 2-Hexanone	11.086	43	1247997	130.519	ug/l #	49
71) Bromoform	12.721	173	2552	0.327	ug/l #	29
76) 1,2,3-Trichloropropane	12.727	75	299956	28.400	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	299956	92.028	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.262	180	756	2.087	ug/l #	76
95) Naphthalene	15.504	128	2367	5.096	ug/l	95
96) 1,2,3-Trichlorobenzene	15.704	180	720	2.606	ug/l #	86

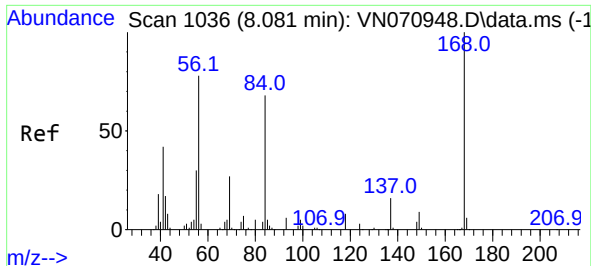
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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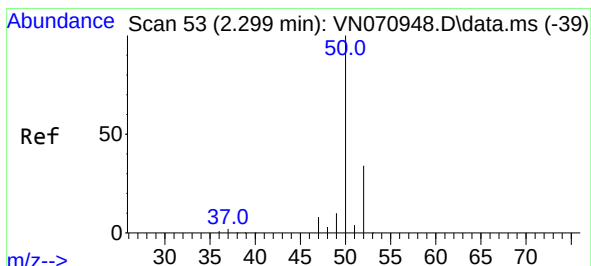
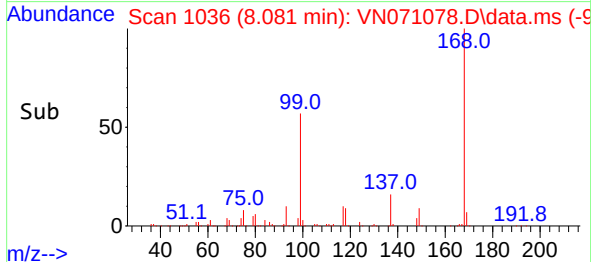
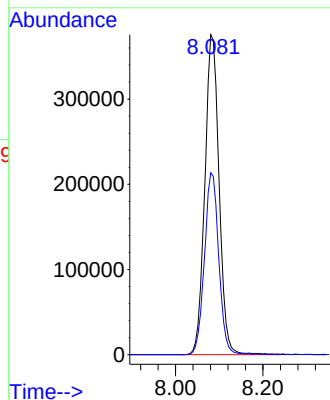
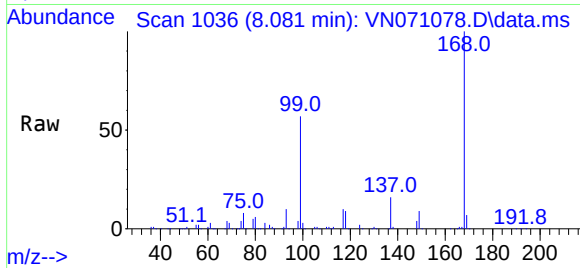




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

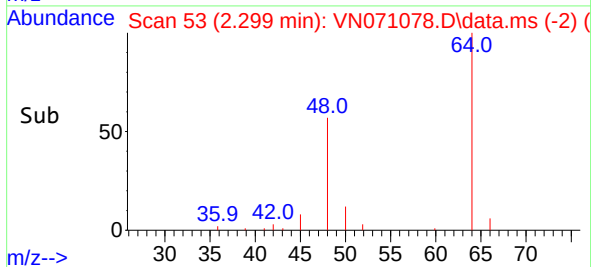
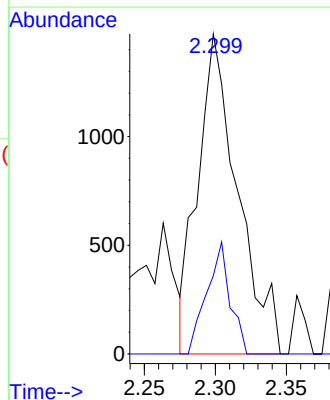
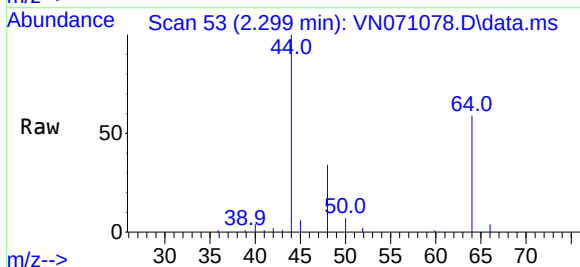
Instrument :
MSVOA_N
ClientSampleId :
TP-6

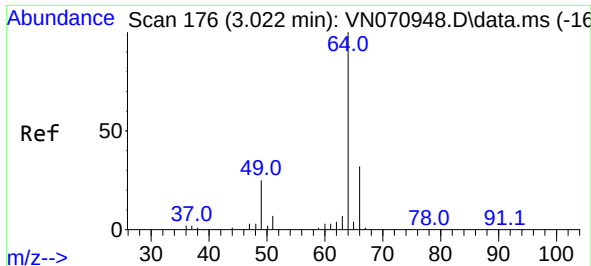
Tgt Ion:168 Resp: 854578
Ion Ratio Lower Upper
168 100
99 56.8 41.3 61.9



#3
Chloromethane
Concen: 0.258 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 50 Resp: 2873
Ion Ratio Lower Upper
50 100
52 24.5 25.4 38.0#

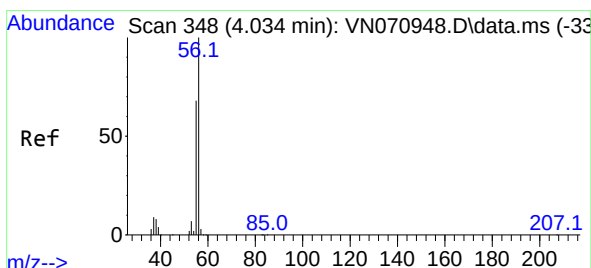
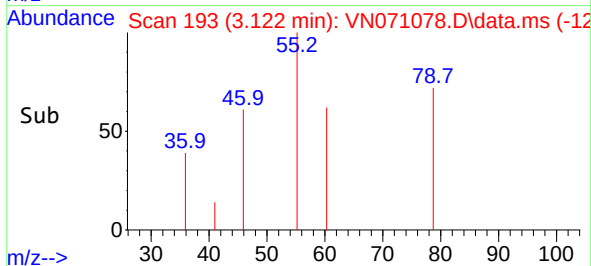
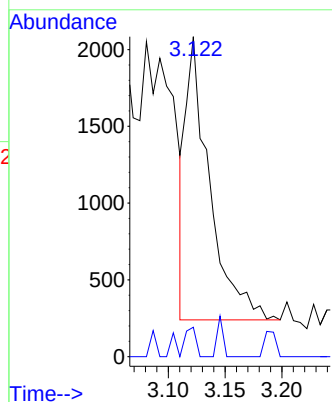
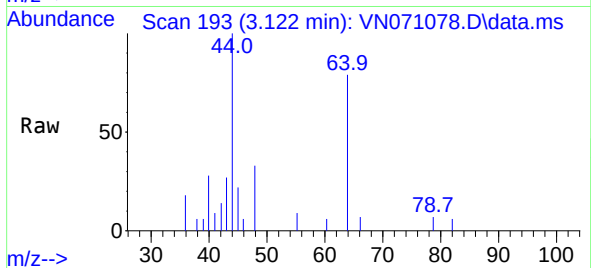




#6
Chloroethane
Concen: 0.368 ug/l
RT: 3.122 min Scan# 193
Delta R.T. 0.100 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

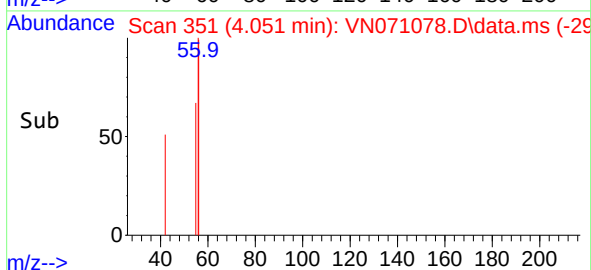
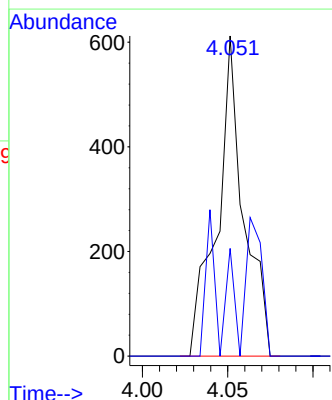
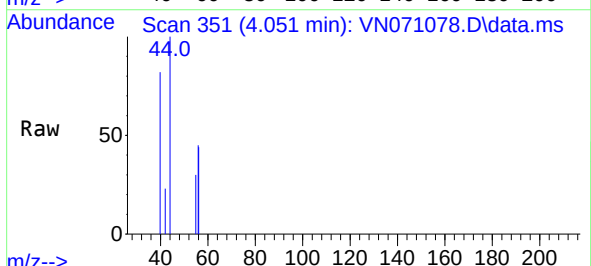
Instrument :
MSVOA_N
ClientSampleId :
TP-6

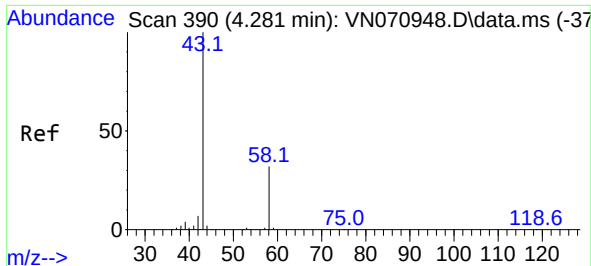
Tgt Ion: 64 Resp: 2699
Ion Ratio Lower Upper
64 100
66 10.4 26.3 39.5#



#13
Acrolein
Concen: 0.418 ug/l
RT: 4.051 min Scan# 351
Delta R.T. 0.017 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 56 Resp: 665
Ion Ratio Lower Upper
56 100
55 25.6 56.6 85.0#

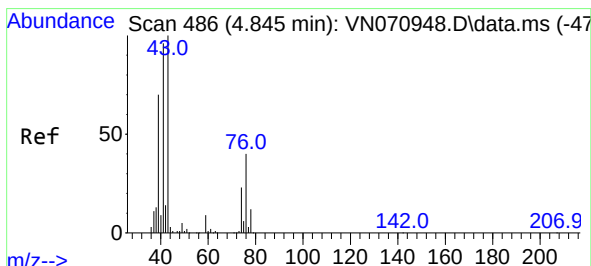
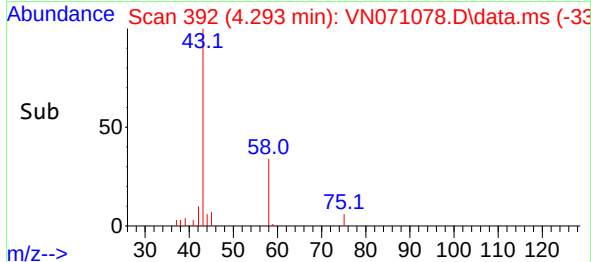
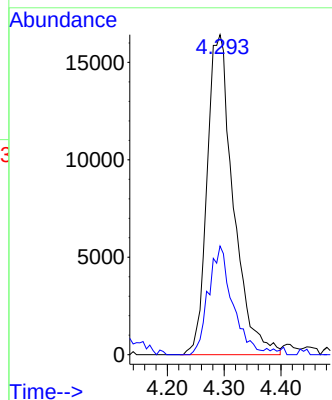
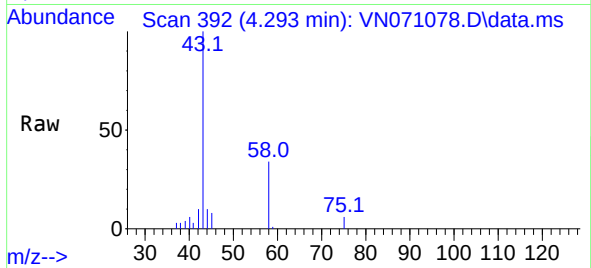




#16
Acetone
Concen: 9.775 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

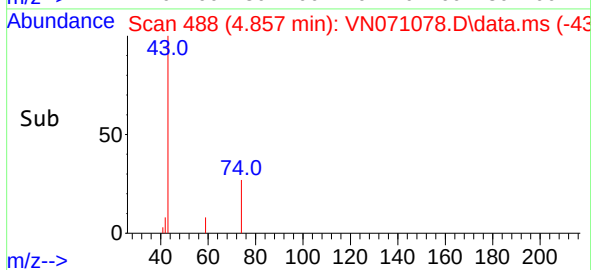
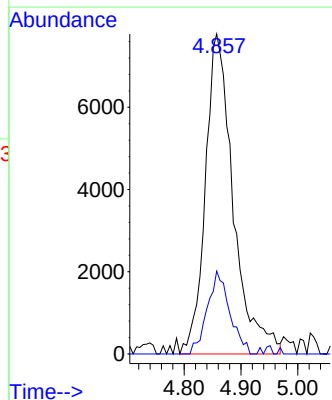
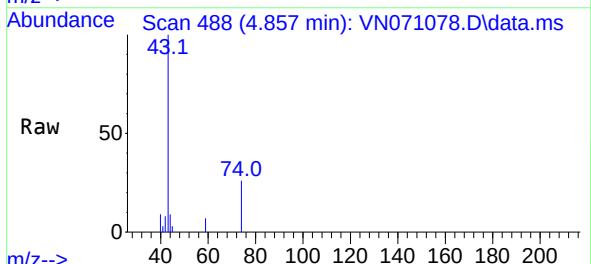
Instrument :
MSVOA_N
ClientSampleId :
TP-6

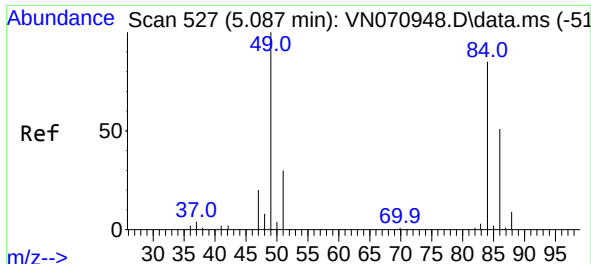
Tgt Ion: 43 Resp: 52550
Ion Ratio Lower Upper
43 100
58 33.9 23.1 34.7



#18
Methyl Acetate
Concen: 1.673 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.012 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 43 Resp: 26544
Ion Ratio Lower Upper
43 100
74 20.7 19.4 29.2



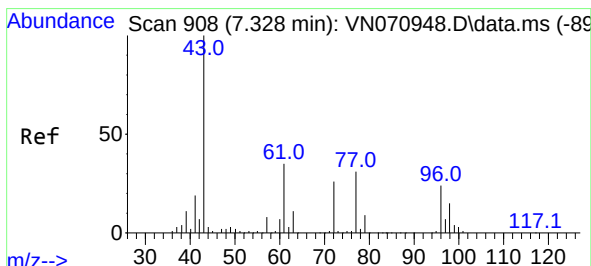
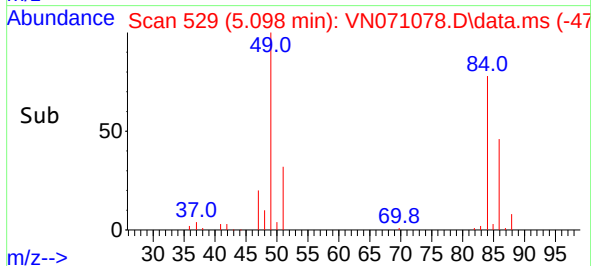
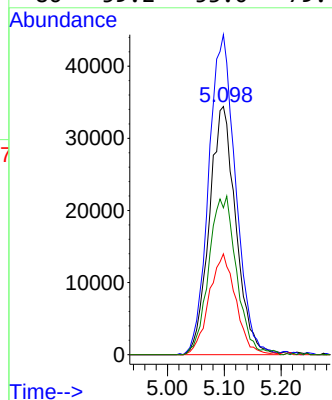
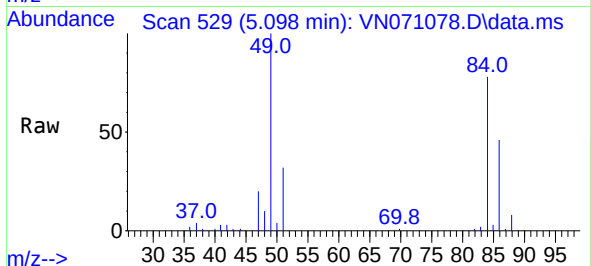


#20
Methylene Chloride
Concen: 11.439 ug/l
RT: 5.098 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Instrument :
MSVOA_N
ClientSampleId :
TP-6

Tgt Ion: 84 Resp: 111767

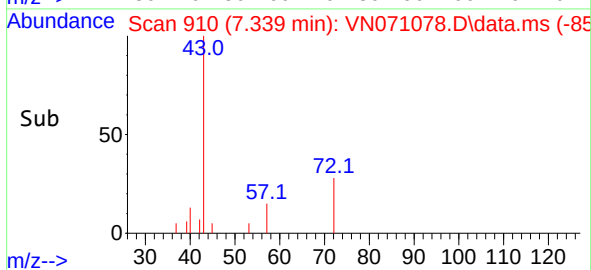
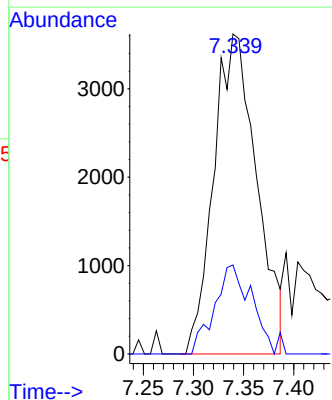
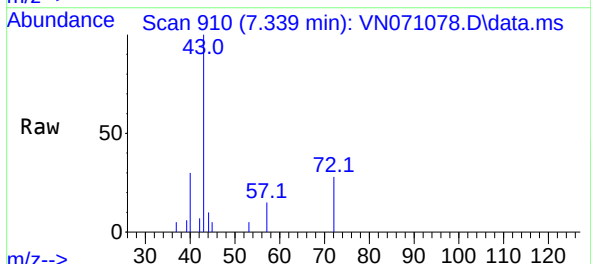
Ion	Ratio	Lower	Upper
84	100		
49	128.5	93.5	140.3
51	40.7	29.4	44.2
86	59.2	53.0	79.4

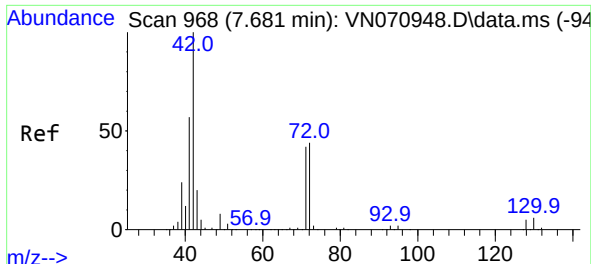


#25
2-Butanone
Concen: 1.506 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.012 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 43 Resp: 10771

Ion	Ratio	Lower	Upper
43	100		
72	27.8	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.414 ug/l

RT: 7.698 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN071078.D

Acq: 25 Feb 2022 18:34

Instrument :

MSVOA_N

ClientSampleId :

TP-6

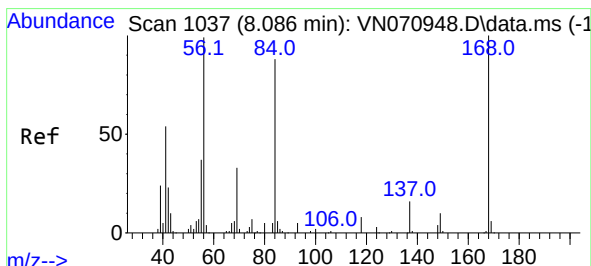
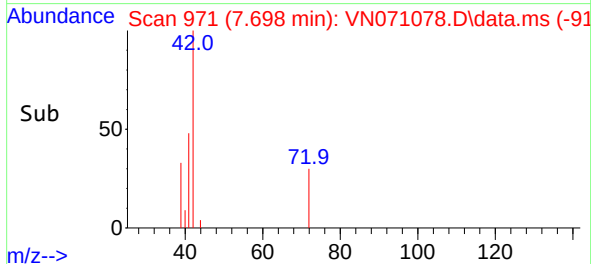
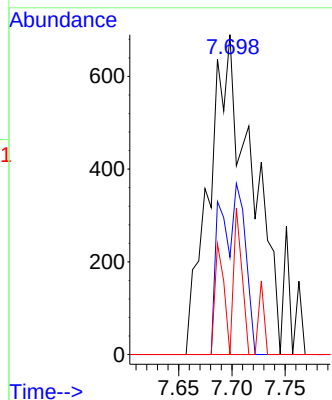
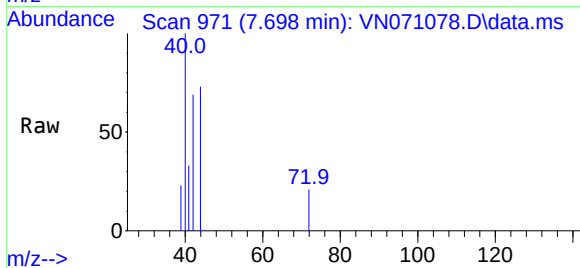
Tgt Ion: 42 Resp: 1919

Ion Ratio Lower Upper

42 100

72 0.0 36.3 54.5#

71 8.8 34.7 52.1#



#31

Cyclohexane

Concen: 1.032 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VN071078.D

Acq: 25 Feb 2022 18:34

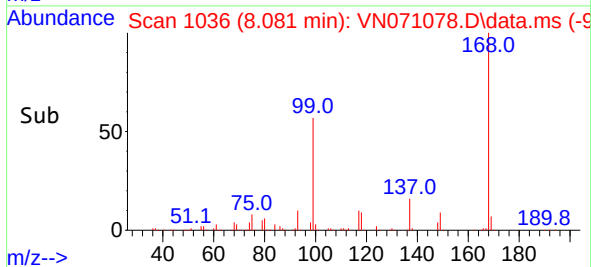
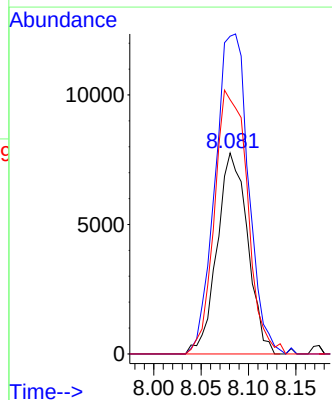
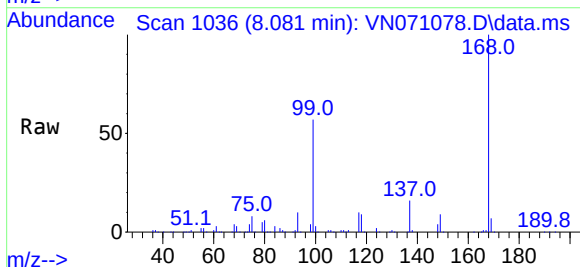
Tgt Ion: 56 Resp: 17421

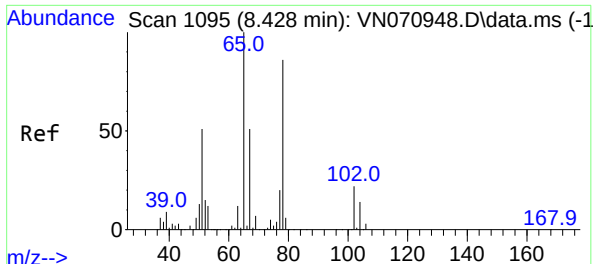
Ion Ratio Lower Upper

56 100

69 158.1 27.1 40.7#

84 126.5 73.4 110.0#

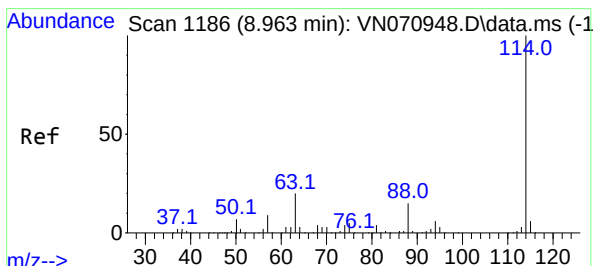
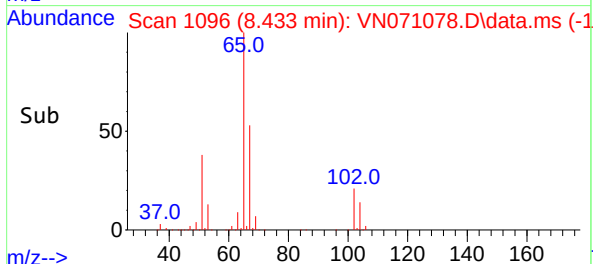
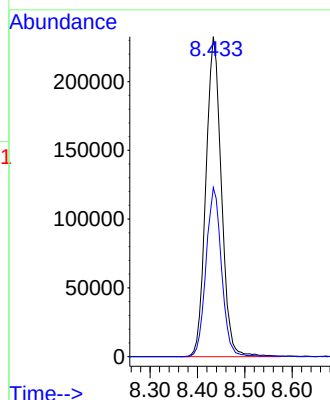
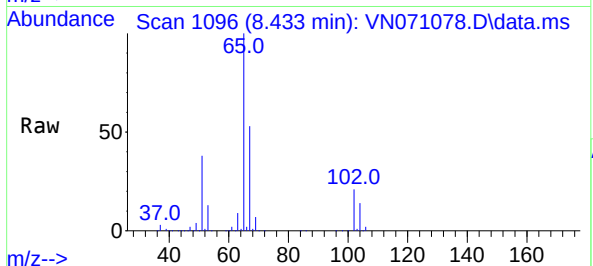




#33
1,2-Dichloroethane-d4
Concen: 54.035 ug/l
RT: 8.433 min Scan# 1095
Delta R.T. 0.006 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

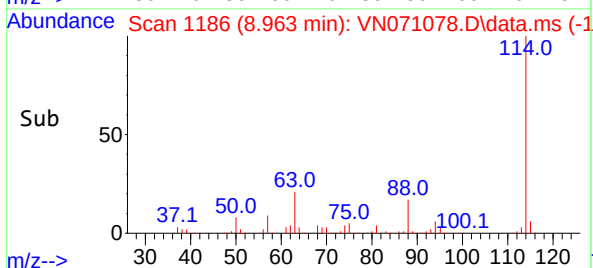
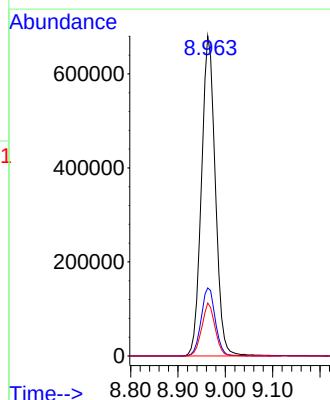
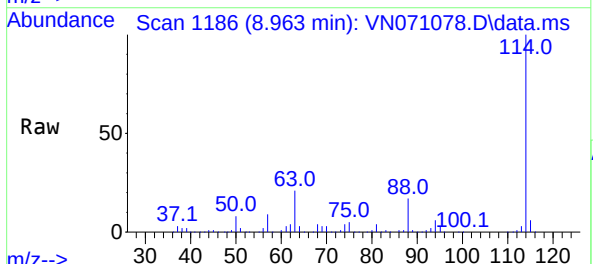
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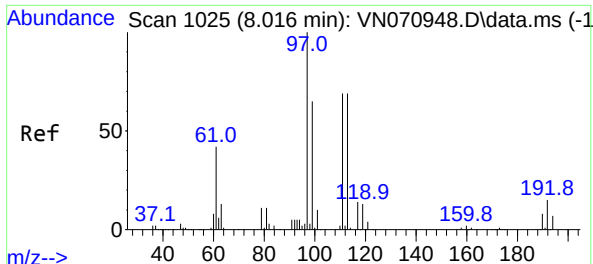
Tgt Ion: 65 Resp: 527486
Ion Ratio Lower Upper
65 100
67 53.0 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 114 Resp: 1387153
Ion Ratio Lower Upper
114 100
63 21.3 0.0 37.8
88 16.5 0.0 27.4

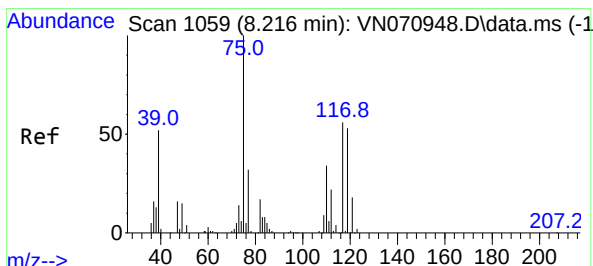
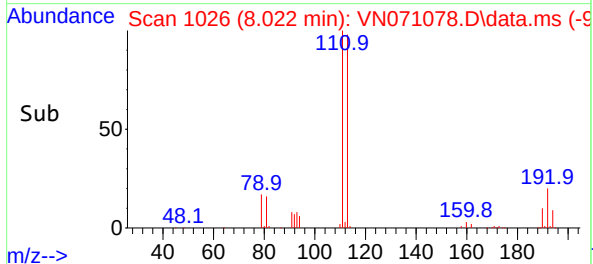
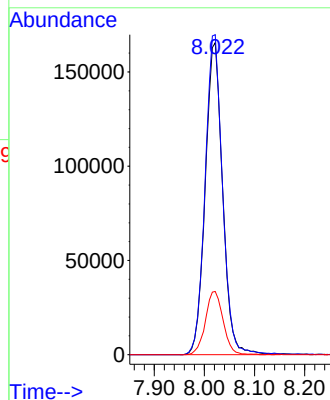
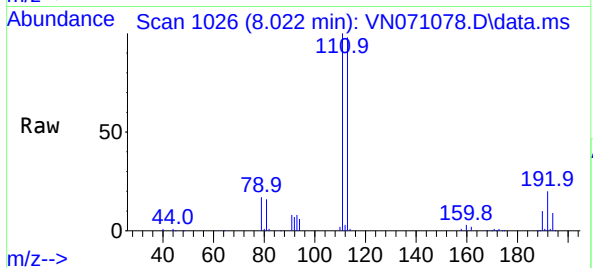




#35
Dibromofluoromethane
Concen: 48.404 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.006 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

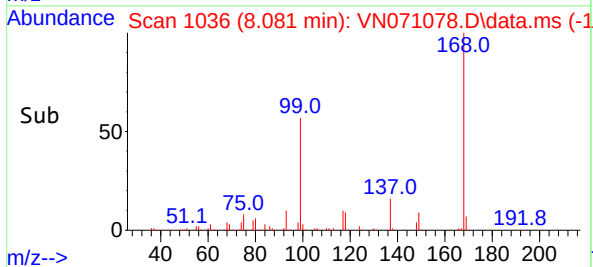
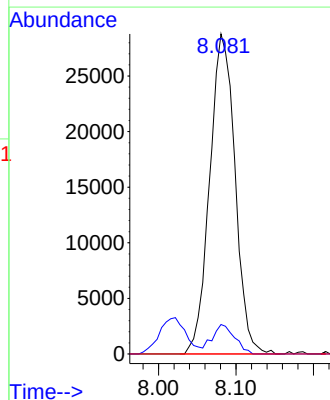
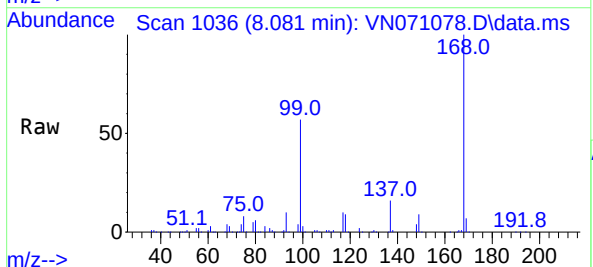
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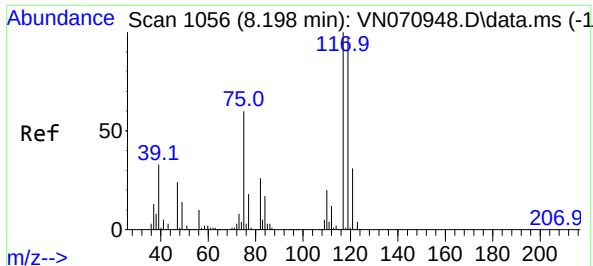
Tgt Ion:113 Resp: 399368
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.2
192 20.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.842 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 75 Resp: 65449
Ion Ratio Lower Upper
75 100
110 8.1 18.4 55.2#
77 0.0 24.4 36.6#

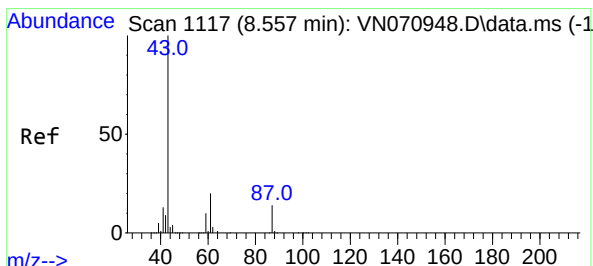
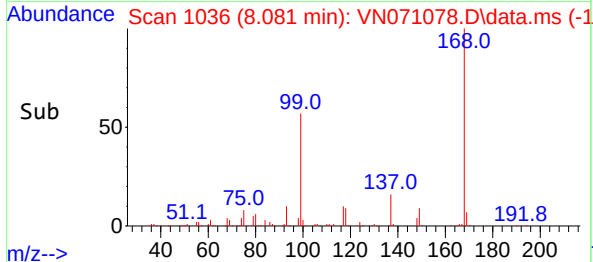
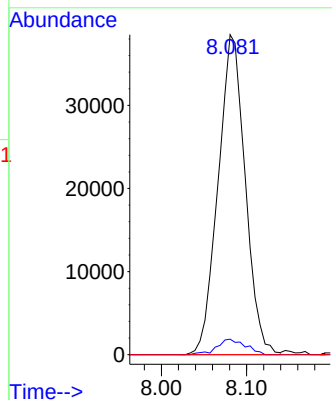
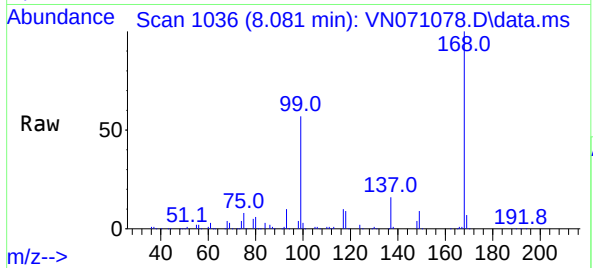




#38
Carbon Tetrachloride
Concen: 6.394 ug/l
RT: 8.081 min Scan# 11036
Delta R.T. -0.118 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

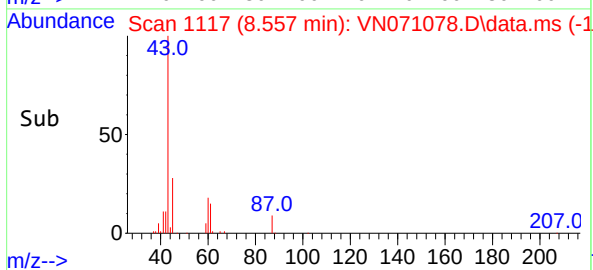
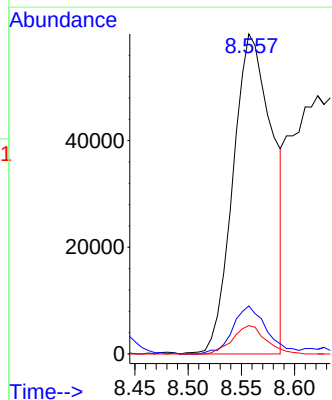
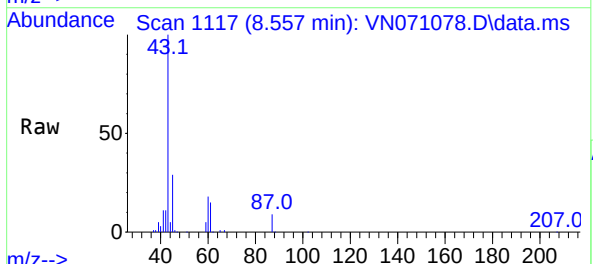
Instrument :
MSVOA_N
ClientSampleId :
TP-6

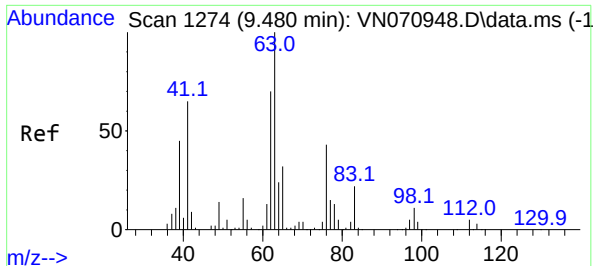
Tgt Ion:117 Resp: 85167
Ion Ratio Lower Upper
117 100
119 4.9 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 6.801 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 43 Resp: 155405
Ion Ratio Lower Upper
43 100
61 12.8 20.4 30.6#
87 7.4 11.2 16.8#

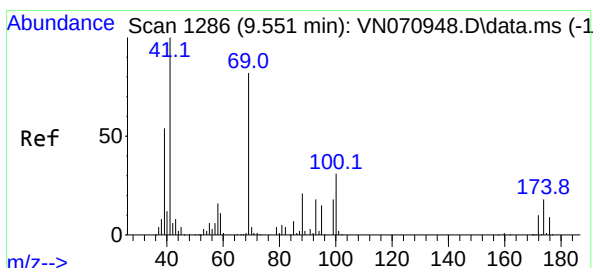
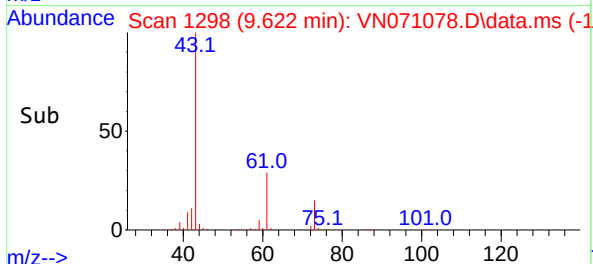
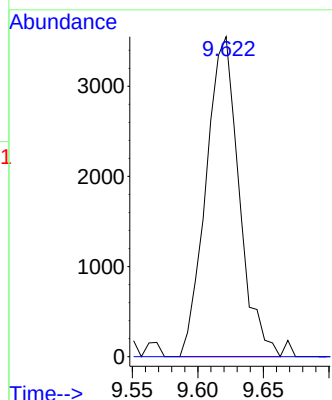
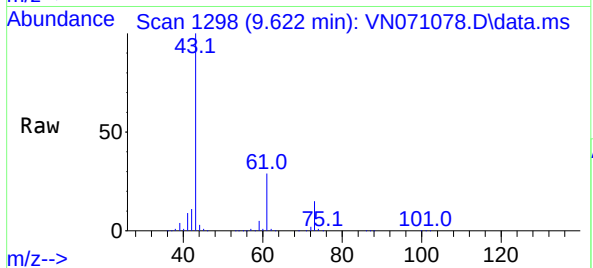




#45
1,2-Dichloropropane
Concen: 0.608 ug/l
RT: 9.622 min Scan# 11
Delta R.T. 0.141 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

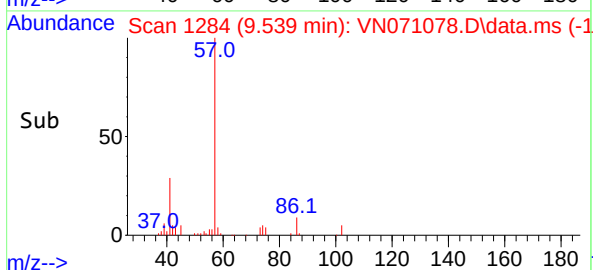
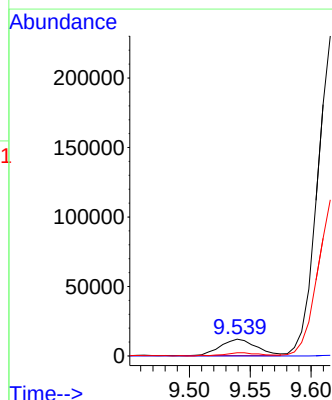
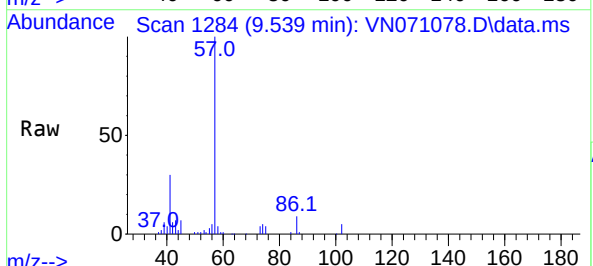
Instrument :
MSVOA_N
ClientSampleId :
TP-6

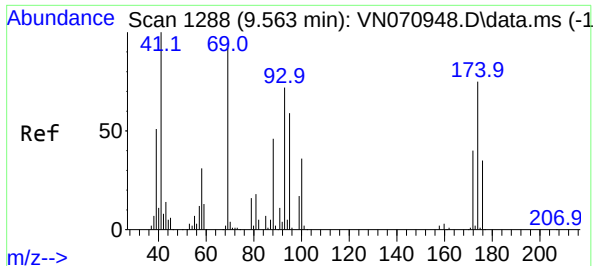
Tgt Ion: 63 Resp: 6225
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#



#48
Methyl methacrylate
Concen: 2.267 ug/l
RT: 9.539 min Scan# 1284
Delta R.T. -0.012 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 41 Resp: 24515
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 58.4 87.6#

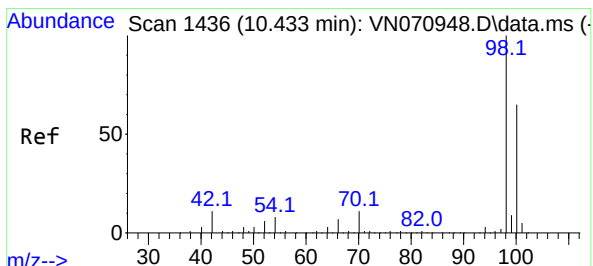
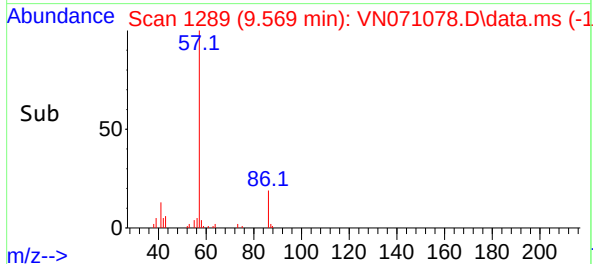
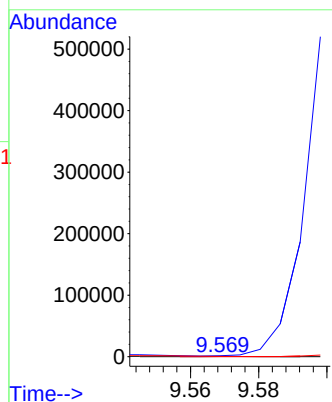
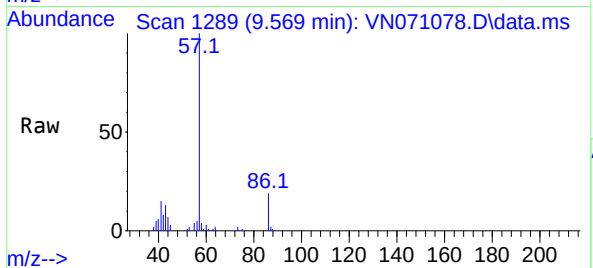




#49
1,4-Dioxane
Concen: 0.630 ug/l
RT: 9.569 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

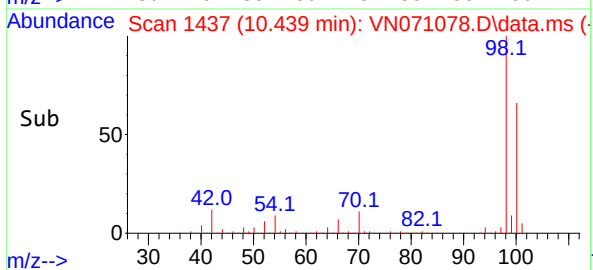
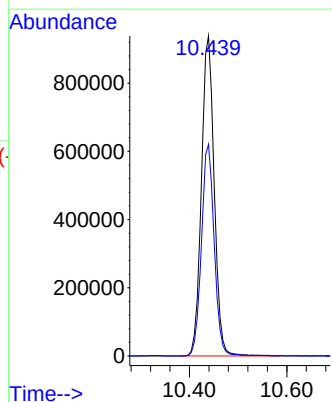
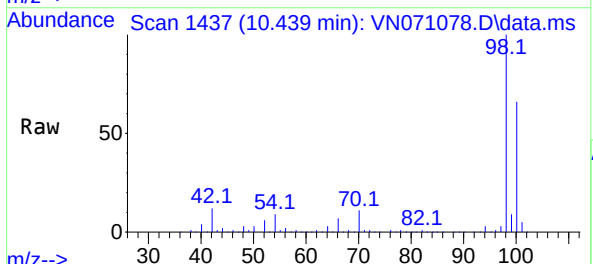
Instrument :
MSVOA_N
ClientSampleId :
TP-6

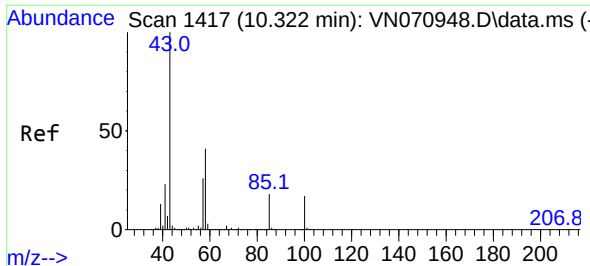
Tgt Ion: 88 Resp: 121
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 3110.7 50.6 75.8#



#50
Toluene-d8
Concen: 51.558 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.006 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 98 Resp: 1708348
Ion Ratio Lower Upper
98 100
100 65.9 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.798 ug/l

RT: 10.322 min Scan# 1417

Delta R.T. -0.000 min

Lab File: VN071078.D

Acq: 25 Feb 2022 18:34

Instrument :

MSVOA_N

ClientSampleId :

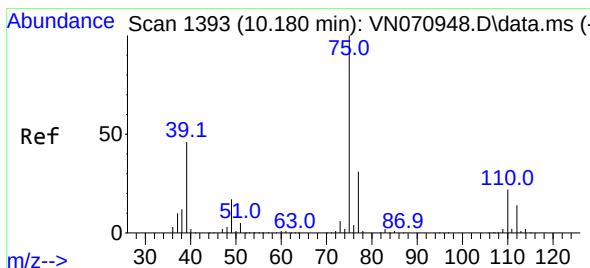
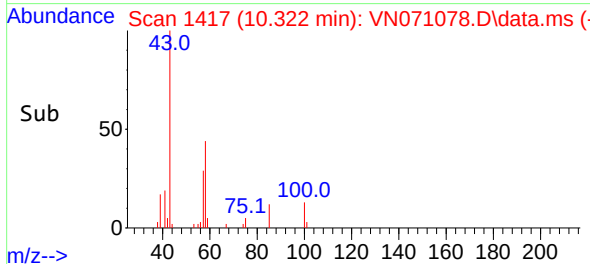
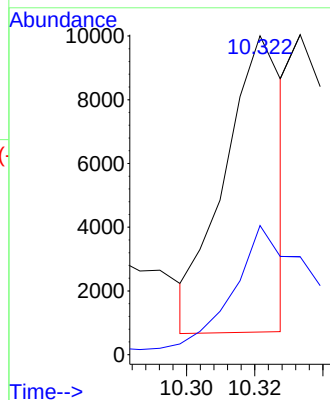
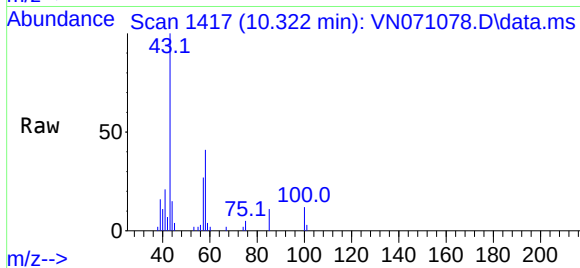
TP-6

Tgt Ion: 43 Resp: 11097

Ion Ratio Lower Upper

43 100

58 63.6 30.4 45.6#



#54

cis-1,3-Dichloropropene

Concen: 8.617 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.059 min

Lab File: VN071078.D

Acq: 25 Feb 2022 18:34

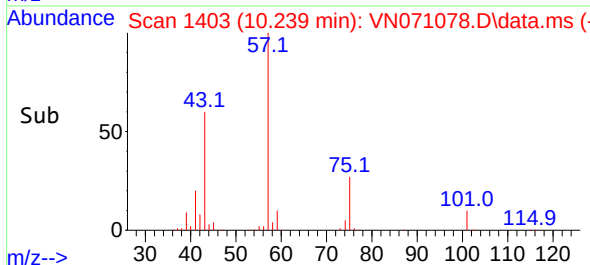
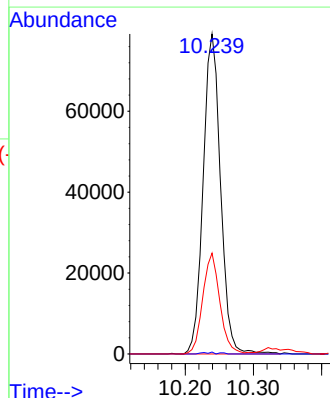
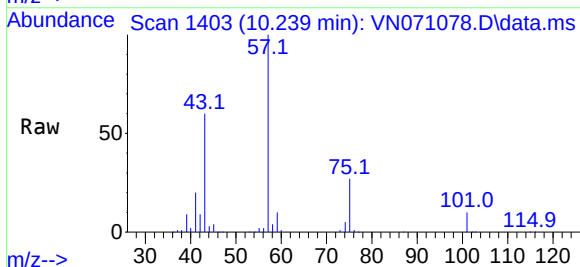
Tgt Ion: 75 Resp: 140171

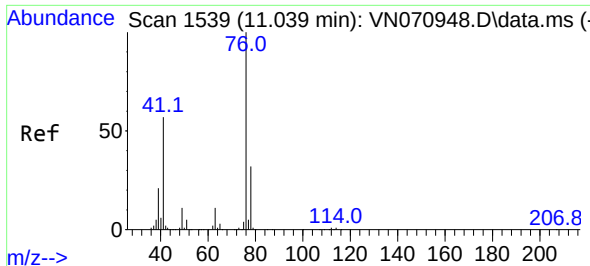
Ion Ratio Lower Upper

75 100

77 0.6 26.4 39.6#

39 31.5 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 4.783 ug/l

RT: 11.086 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN071078.D

Acq: 25 Feb 2022 18:34

Instrument :

MSVOA_N

ClientSampleId :

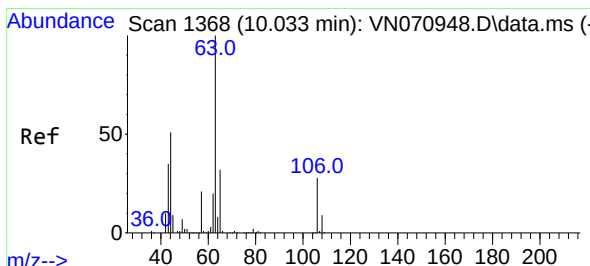
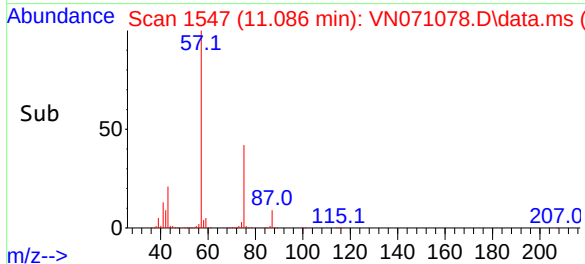
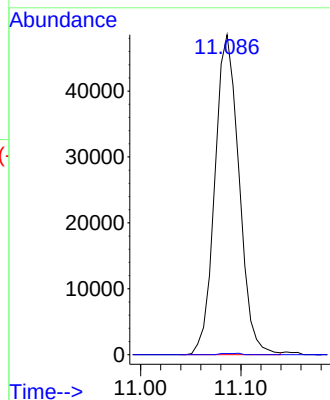
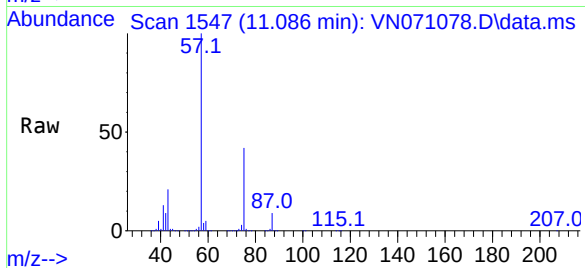
TP-6

Tgt Ion: 76 Resp: 81366

Ion Ratio Lower Upper

76 100

78 0.3 25.7 38.5#



#58

2-Chloroethyl Vinyl ether

Concen: 31.815 ug/l

RT: 10.245 min Scan# 1404

Delta R.T. 0.212 min

Lab File: VN071078.D

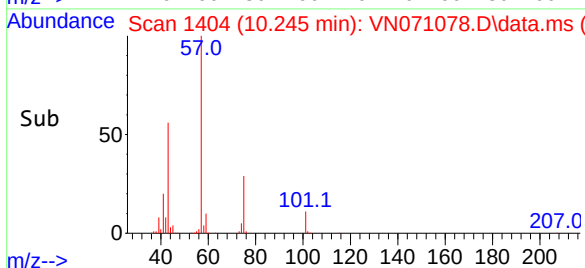
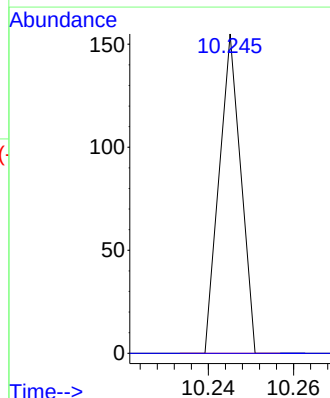
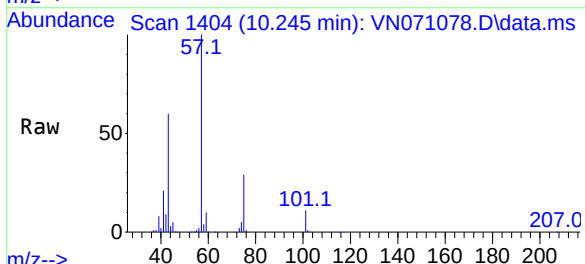
Acq: 25 Feb 2022 18:34

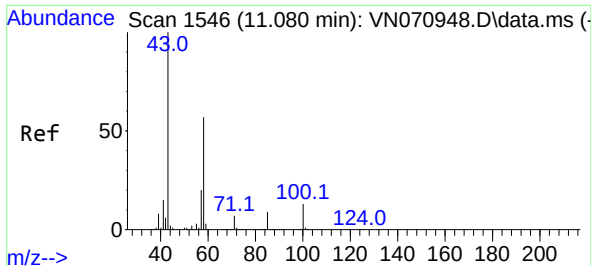
Tgt Ion: 63 Resp: 55

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#

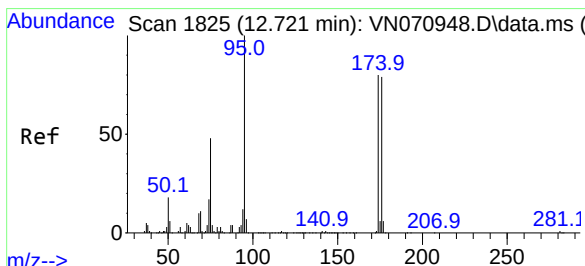
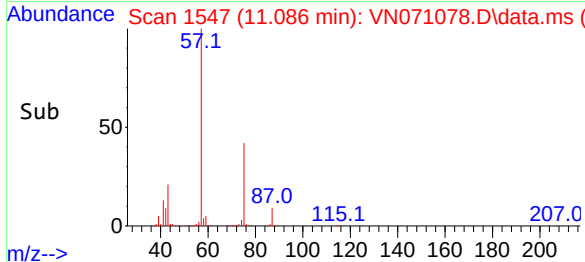
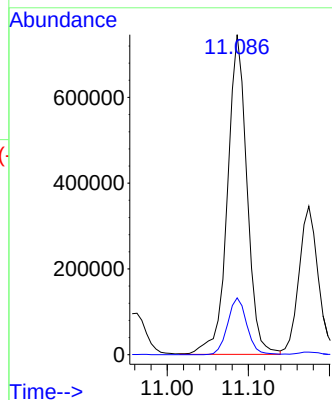
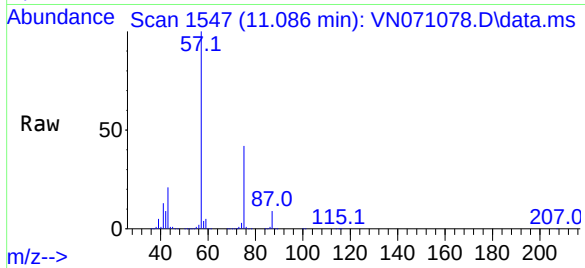




#59
2-Hexanone
Concen: 130.519 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

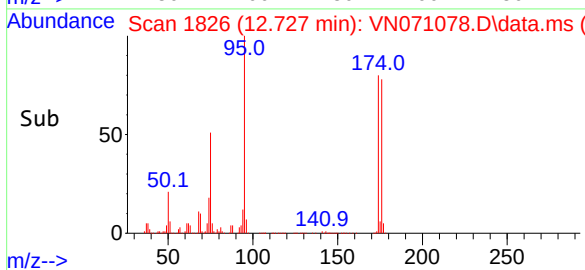
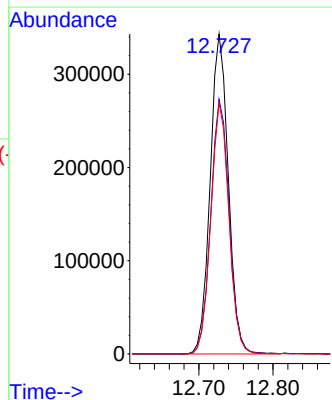
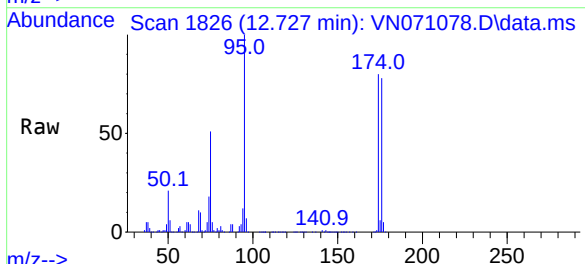
Instrument :
MSVOA_N
ClientSampleId :
TP-6

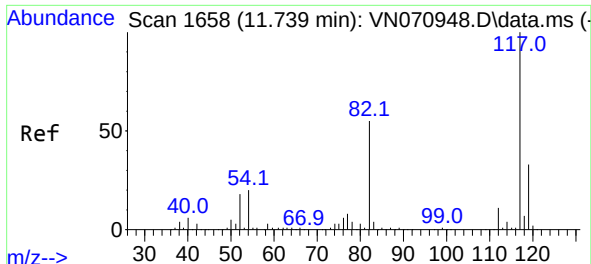
Tgt Ion: 43 Resp: 1247997
Ion Ratio Lower Upper
43 100
58 17.5 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 49.222 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion: 95 Resp: 582967
Ion Ratio Lower Upper
95 100
174 80.8 0.0 187.2
176 78.2 0.0 181.4

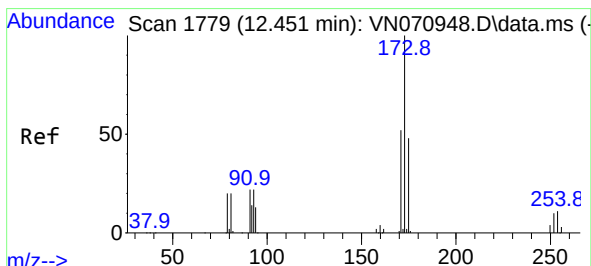
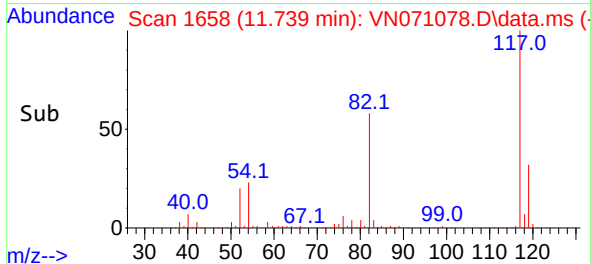
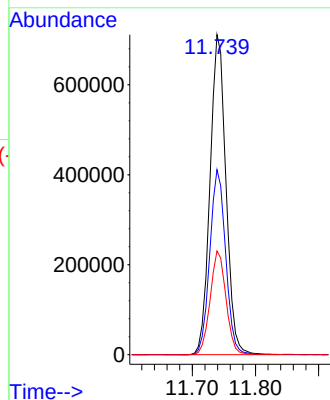
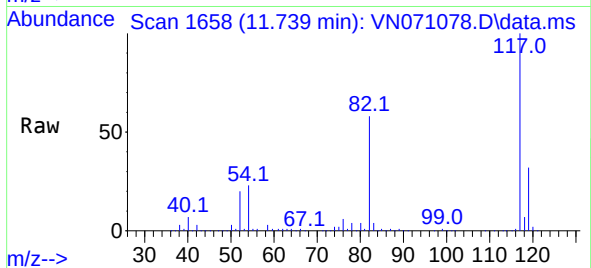




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

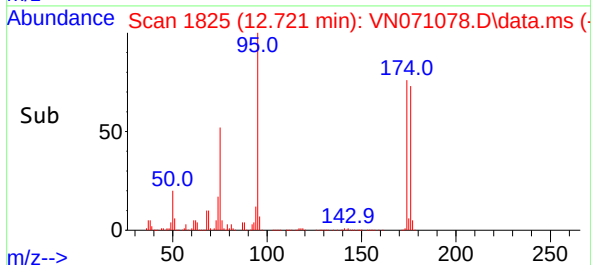
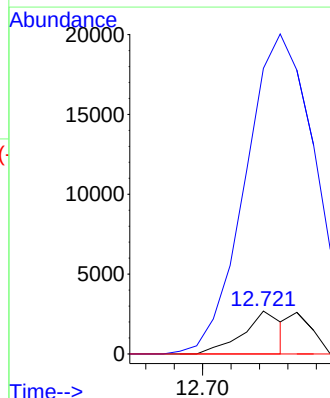
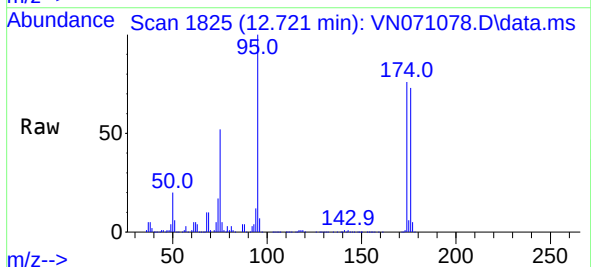
Instrument :
MSVOA_N
ClientSampleId :
TP-6

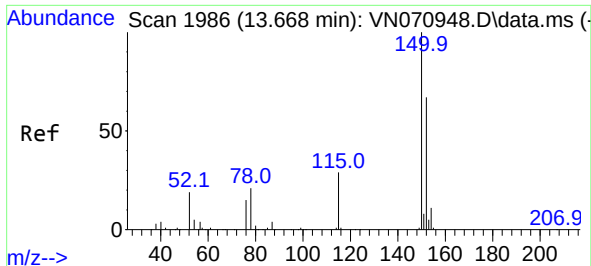
Tgt Ion:117 Resp: 1248500
Ion Ratio Lower Upper
117 100
82 57.8 42.4 63.6
119 32.4 25.4 38.2



#71
Bromoform
Concen: 0.327 ug/l
RT: 12.721 min Scan# 1825
Delta R.T. 0.271 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion:173 Resp: 2552
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0

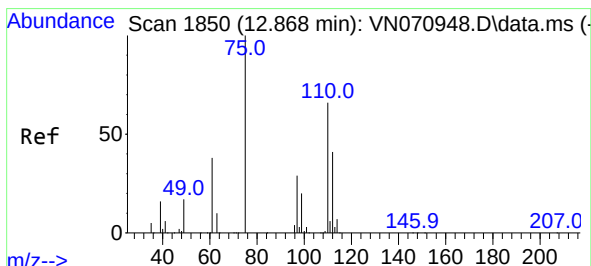
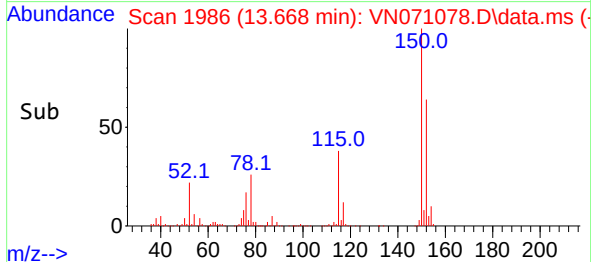
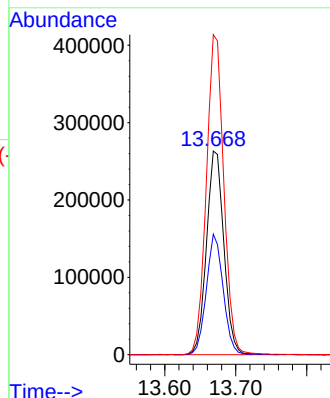
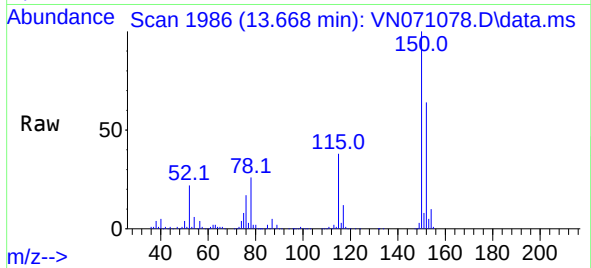




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.668 min Scan# 1986
 Delta R.T. -0.000 min
 Lab File: VN071078.D
 Acq: 25 Feb 2022 18:34

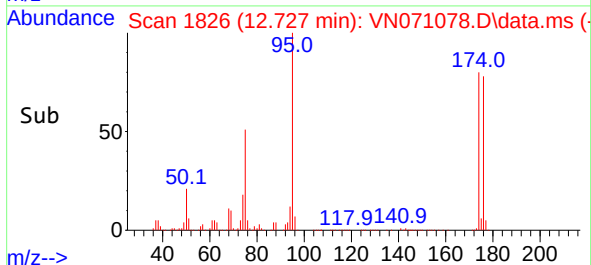
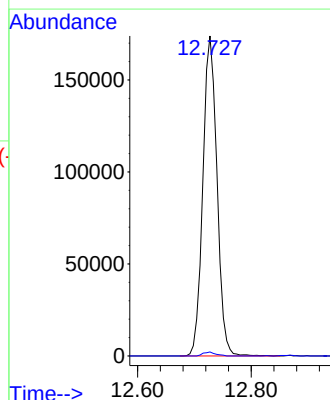
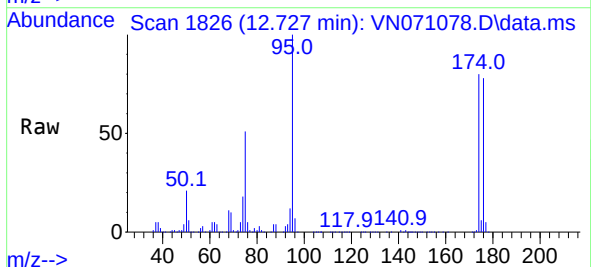
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

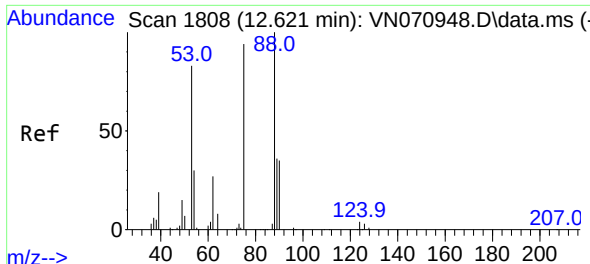
Tgt Ion:152 Resp: 448584
 Ion Ratio Lower Upper
 152 100
 115 57.4 27.5 82.5
 150 157.6 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 28.400 ug/l
 RT: 12.727 min Scan# 1826
 Delta R.T. -0.141 min
 Lab File: VN071078.D
 Acq: 25 Feb 2022 18:34

Tgt Ion: 75 Resp: 299956
 Ion Ratio Lower Upper
 75 100
 77 1.1 82.6 247.8#

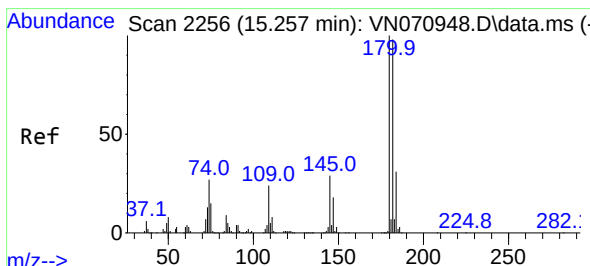
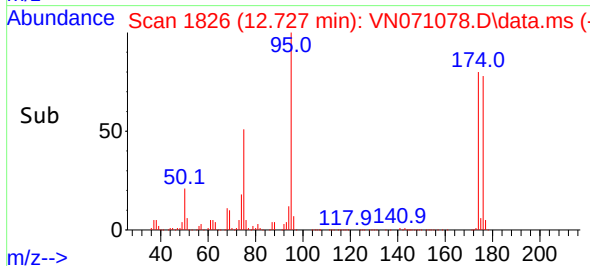
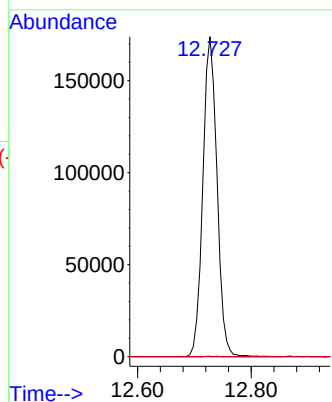
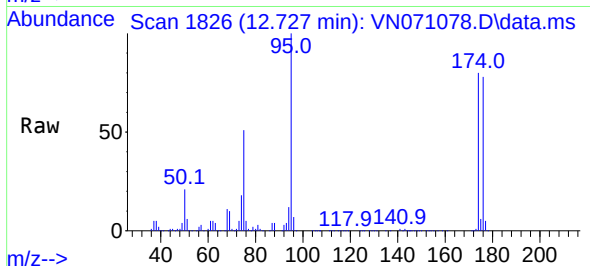




#81
trans-1,4-Dichloro-2-butene
Concen: 92.028 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

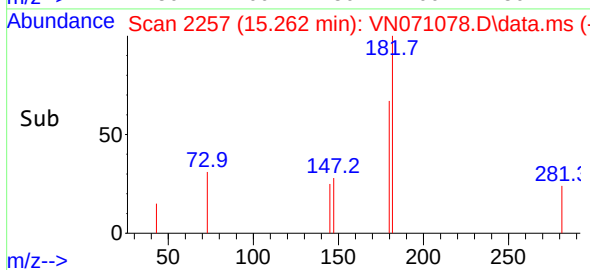
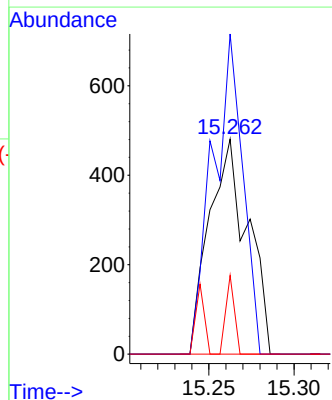
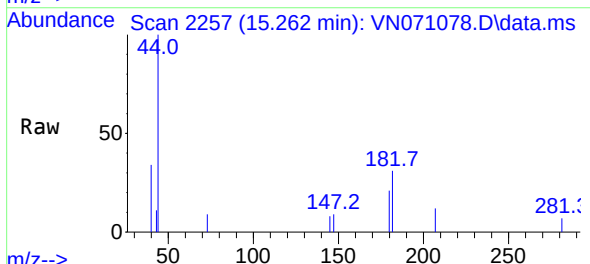
Instrument :
MSVOA_N
ClientSampleId :
TP-6

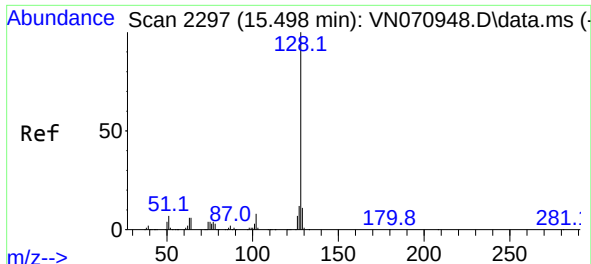
Tgt Ion: 75 Resp: 299956
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.087 ug/l
RT: 15.262 min Scan# 2257
Delta R.T. 0.005 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion:180 Resp: 756
Ion Ratio Lower Upper
180 100
182 116.0 48.3 144.9
145 8.2 14.5 43.5#

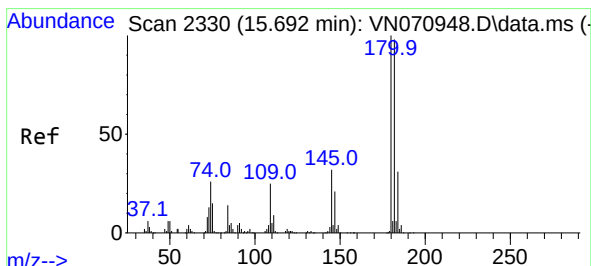
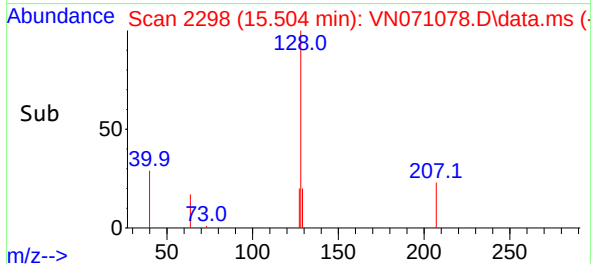
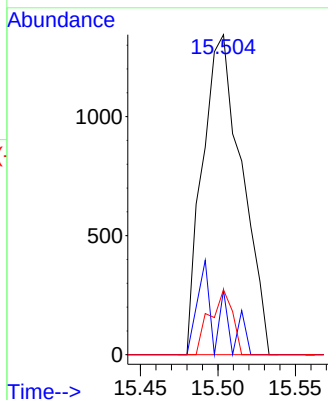
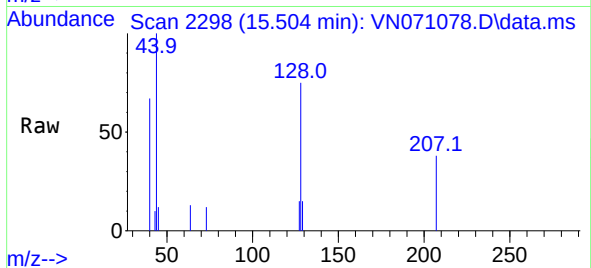




#95
Naphthalene
Concen: 5.096 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Instrument :
MSVOA_N
ClientSampleId :
TP-6

Tgt Ion:128	Resp:	2367
Ion Ratio	Lower	Upper
128	100	
127	15.7	10.5 15.7
129	11.7	8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.606 ug/l
RT: 15.704 min Scan# 2332
Delta R.T. 0.012 min
Lab File: VN071078.D
Acq: 25 Feb 2022 18:34

Tgt Ion:180	Resp:	720
Ion Ratio	Lower	Upper
180	100	
182	100.4	47.4 142.2
145	7.4	15.0 45.1#

