

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021622\
 Data File : VN070969.D
 Acq On : 16 Feb 2022 19:55
 Operator : JC\MD
 Sample : N1573-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GES-1R

Quant Time: Feb 17 04:14:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 16 07:52:42 2022
 Response via : Initial Calibration

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

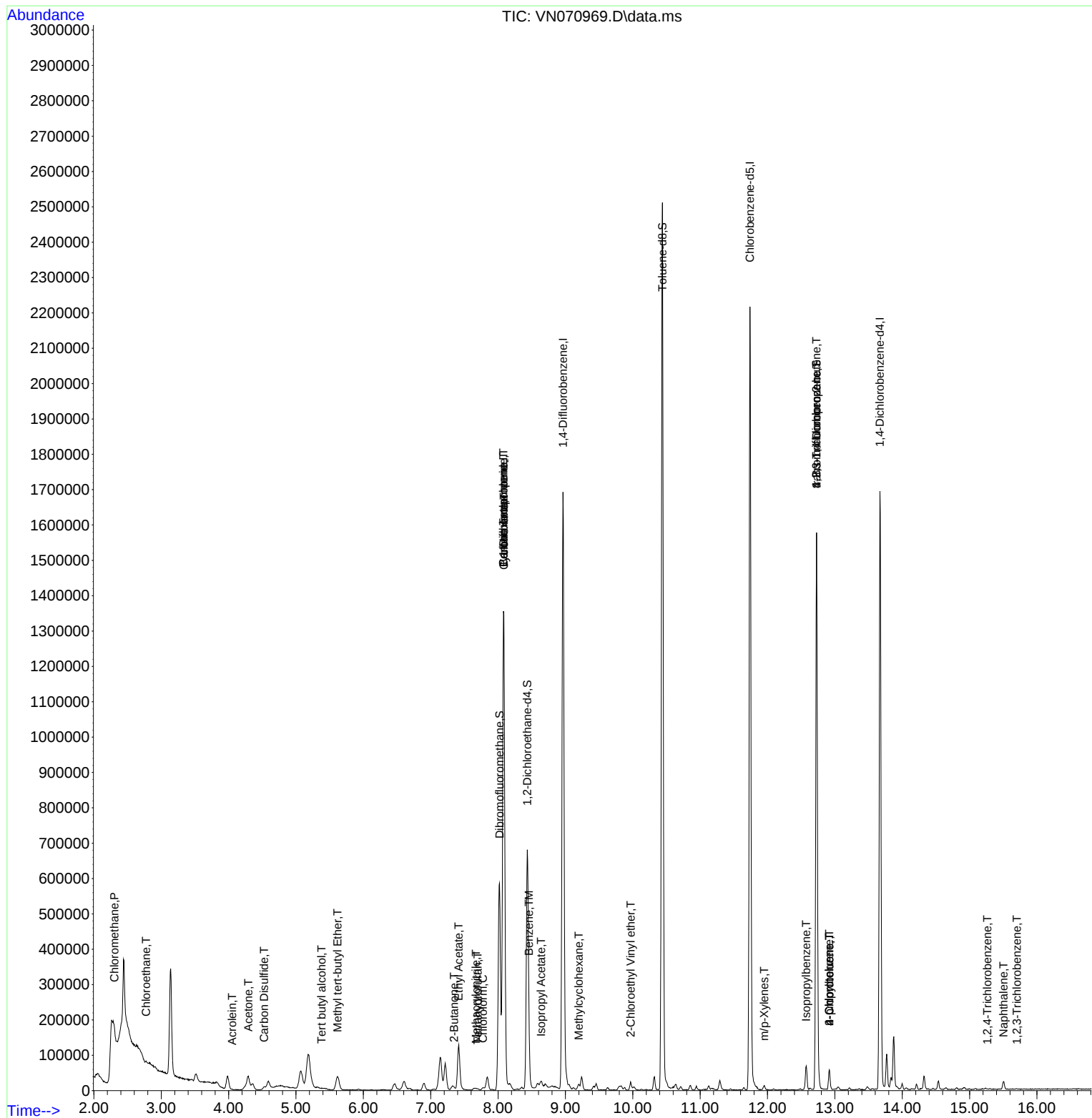
Internal Standards						
1) Pentafluorobenzene	8.081	168	986212	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1503670	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1318949	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	496055	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	543420	48.237	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.480%		
35) Dibromofluoromethane	8.022	113	437400	48.905	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.820%		
50) Toluene-d8	10.439	98	1780314	49.566	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.140%		
62) 4-Bromofluorobenzene	12.727	95	556604	43.354	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	86.700%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.305	50	8133	0.632	ug/l #	58
6) Chloroethane	2.775	64	11946	1.413	ug/l #	49
11) Tert butyl alcohol	5.381	59	554	0.270	ug/l #	71
13) Acrolein	4.051	56	782	0.426	ug/l #	14
16) Acetone	4.293	43	74020	11.931	ug/l	95
17) Carbon Disulfide	4.528	76	21589	0.780	ug/l #	93
18) Methyl Acetate	4.857	43	6398	Below Cal	#	83
19) Methyl tert-butyl Ether	5.616	73	48253	1.425	ug/l #	55
25) 2-Butanone	7.345	43	8739	1.059	ug/l	97
29) Tetrahydrofuran	7.698	42	2592	0.485	ug/l #	68
30) Chloroform	7.775	83	5945	0.305	ug/l #	18
31) Cyclohexane	8.086	56	103362	5.305	ug/l #	89
36) 1,1-Dichloropropene	8.081	75	71581	4.885	ug/l #	52
37) Ethyl Acetate	7.416	43	194236	12.360	ug/l	98
38) Carbon Tetrachloride	8.081	117	91723	6.353	ug/l #	17
39) Methylcyclohexane	9.198	83	5769	0.306	ug/l	92
40) Benzene	8.457	78	34631	0.799	ug/l	98
41) Methacrylonitrile	7.675	41	1774	0.214	ug/l #	44
43) Isopropyl Acetate	8.639	43	18896	0.763	ug/l #	62
58) 2-Chloroethyl Vinyl ether	9.969	63	62	31.816	ug/l #	45
68) m/p-Xylenes	11.951	106	4307	0.224	ug/l	96
73) Isopropylbenzene	12.574	105	44322	1.110	ug/l	100
76) 1,2,3-Trichloropropane	12.727	75	281518	24.103	ug/l #	1
78) n-propylbenzene	12.916	91	47407	1.057	ug/l	96
79) 2-Chlorotoluene	12.916	91	47407	1.740	ug/l #	38
81) trans-1,4-Dichloro-2-b...	12.727	75	281518	78.106	ug/l #	5
82) 4-Chlorotoluene	12.916	91	47407	1.793	ug/l #	38
93) 1,2,4-Trichlorobenzene	15.263	180	435	2.045	ug/l #	70
95) Naphthalene	15.504	128	22344	5.897	ug/l	97
96) 1,2,3-Trichlorobenzene	15.704	180	526	2.575	ug/l #	61

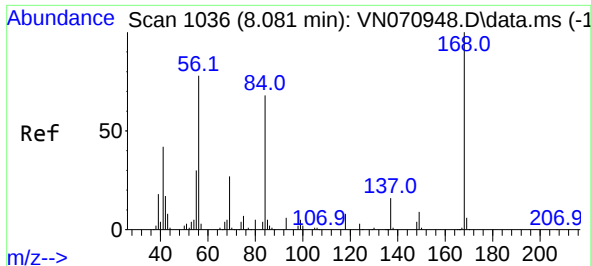
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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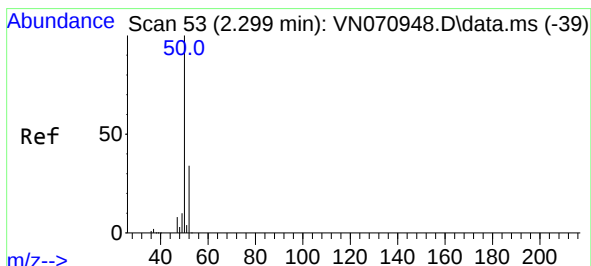
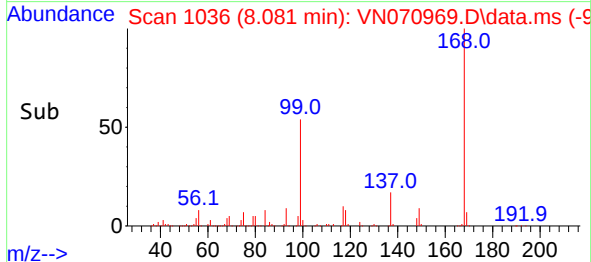
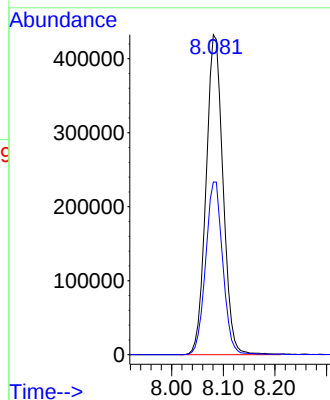
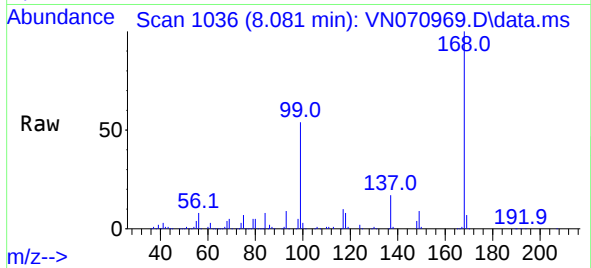




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

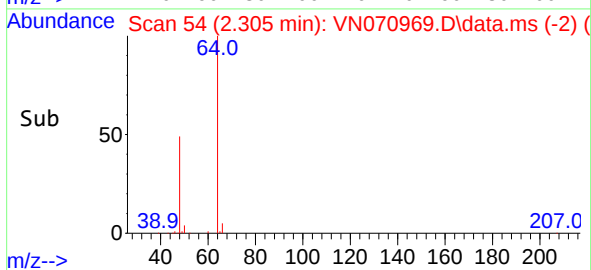
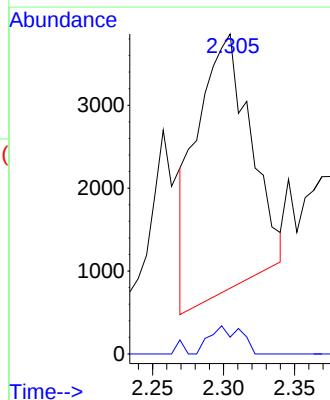
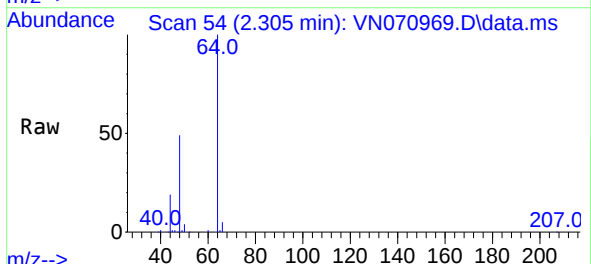
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

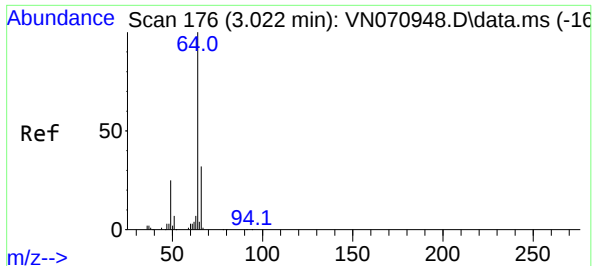
Tgt Ion:168 Resp: 986212
Ion Ratio Lower Upper
168 100
99 53.9 41.3 61.9



#3
Chloromethane
Concen: 0.632 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 50 Resp: 8133
Ion Ratio Lower Upper
50 100
52 8.5 25.4 38.0#

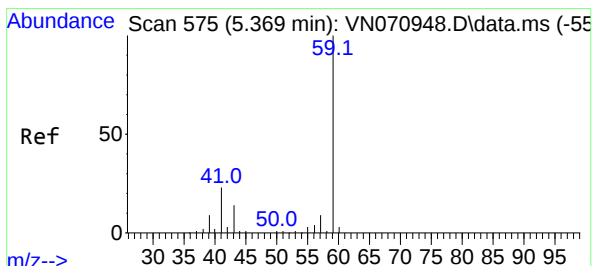
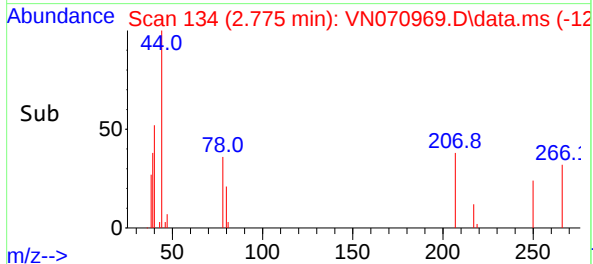
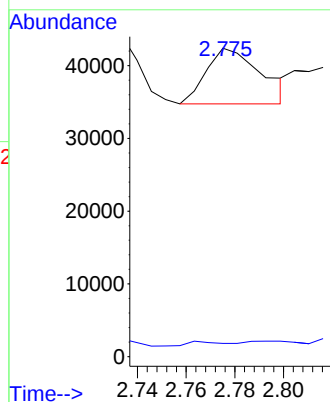
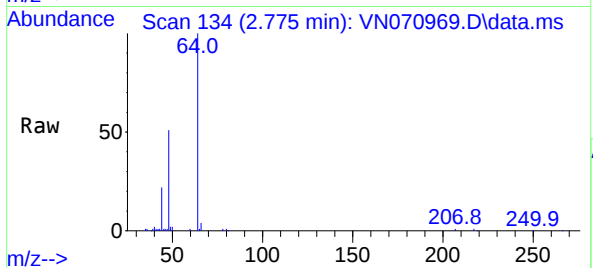




#6
Chloroethane
Concen: 1.413 ug/l
RT: 2.775 min Scan# 11
Delta R.T. -0.247 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

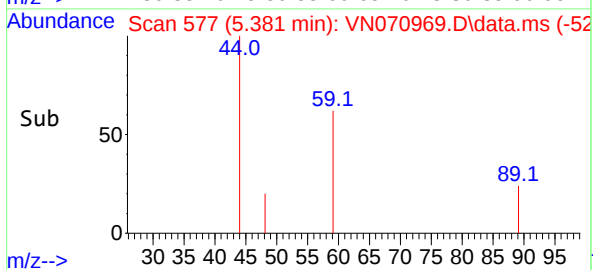
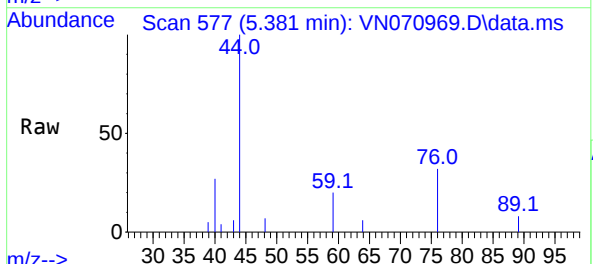
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

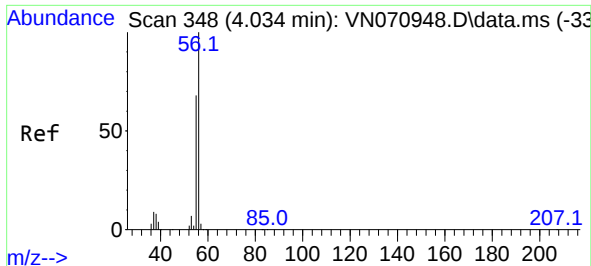
Tgt Ion: 64 Resp: 11946
Ion Ratio Lower Upper
64 100
66 4.1 26.3 39.5#



#11
Tert butyl alcohol
Concen: 0.270 ug/l
RT: 5.381 min Scan# 577
Delta R.T. 0.012 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 59 Resp: 554
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

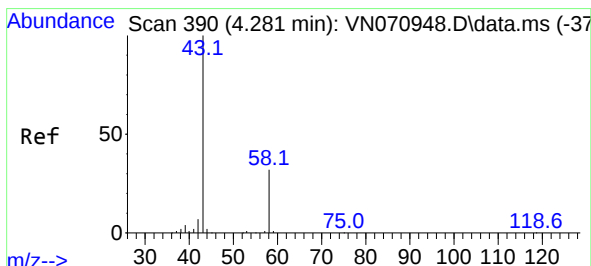
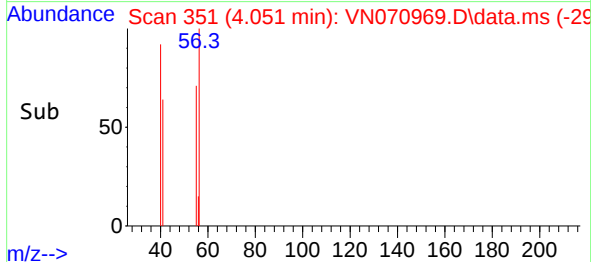
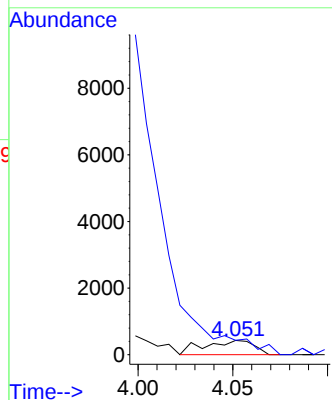
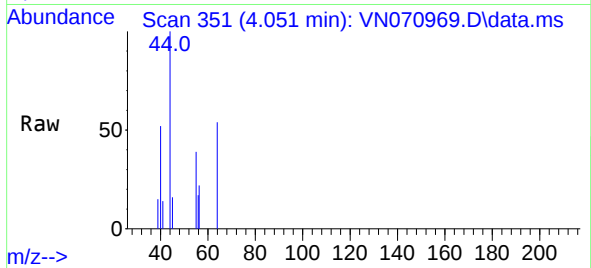




#13
Acrolein
Concen: 0.426 ug/l
RT: 4.051 min Scan# 31
Delta R.T. 0.017 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

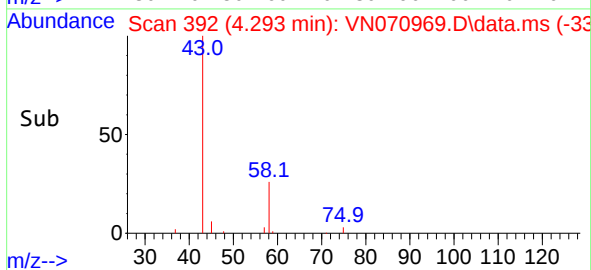
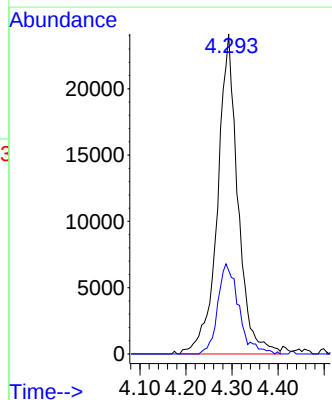
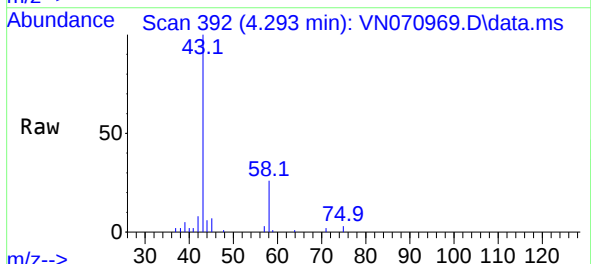
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

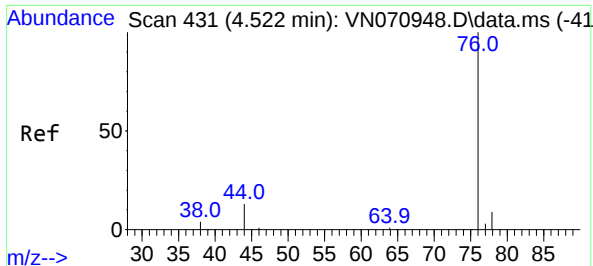
Tgt Ion: 56 Resp: 782
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#



#16
Acetone
Concen: 11.931 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.012 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 43 Resp: 74020
Ion Ratio Lower Upper
43 100
58 26.1 23.1 34.7

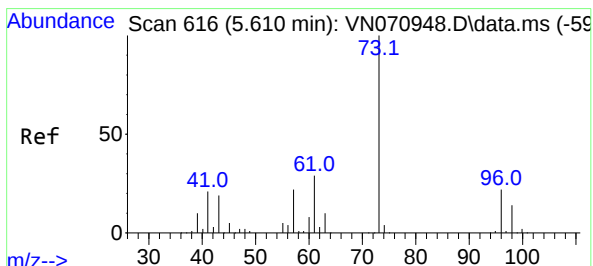
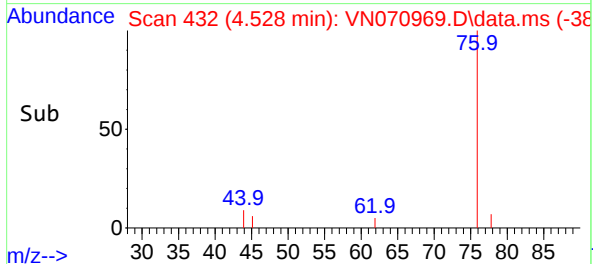
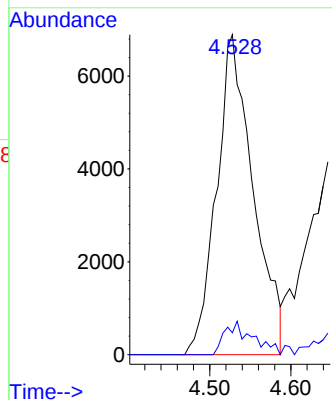
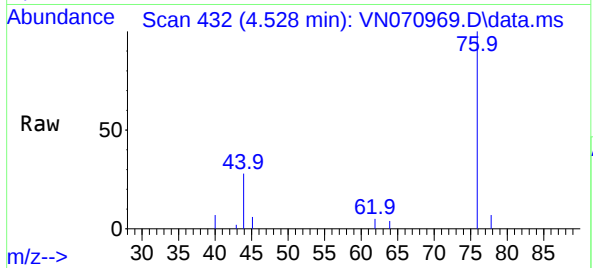




#17
Carbon Disulfide
Concen: 0.780 ug/l
RT: 4.528 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

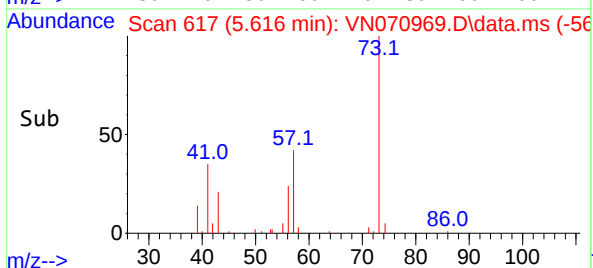
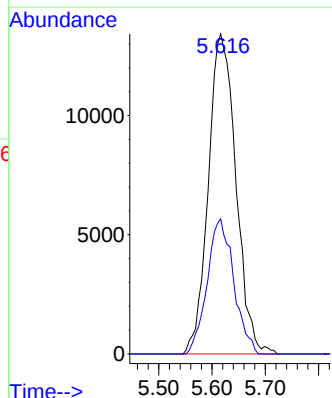
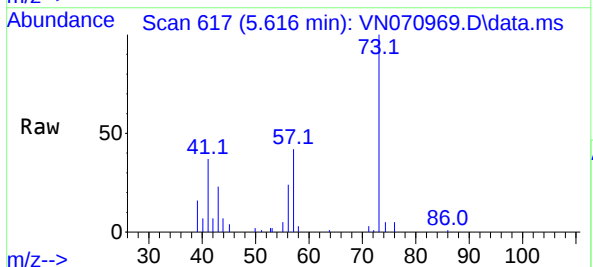
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

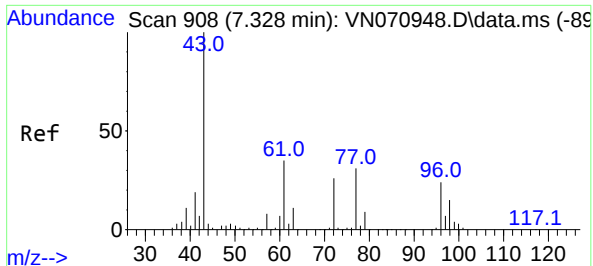
Tgt Ion: 76 Resp: 21589
Ion Ratio Lower Upper
76 100
78 6.8 7.5 11.3#



#19
Methyl tert-butyl Ether
Concen: 1.425 ug/l
RT: 5.616 min Scan# 617
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 73 Resp: 48253
Ion Ratio Lower Upper
73 100
57 42.2 16.8 25.2#





#25

2-Butanone

Concen: 1.059 ug/l

RT: 7.345 min Scan# 911

Delta R.T. 0.018 min

Lab File: VN070969.D

Acq: 16 Feb 2022 19:55

Instrument :

MSVOA_N

ClientSampleId :

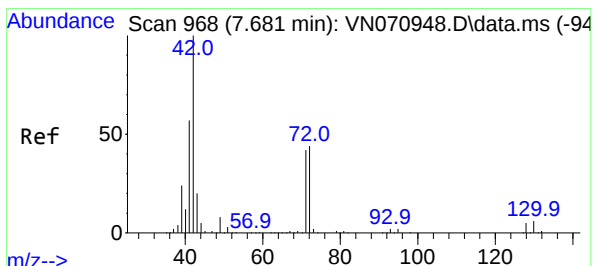
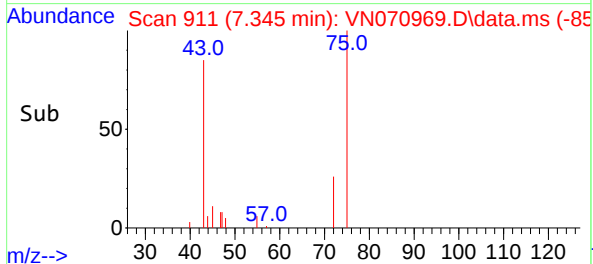
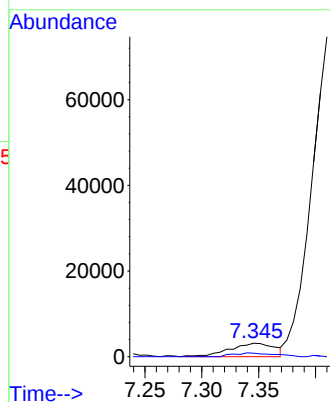
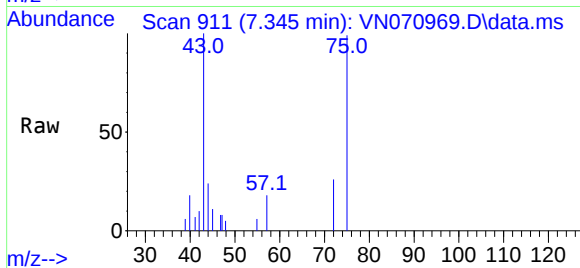
GES-1R

Tgt Ion: 43 Resp: 8739

Ion Ratio Lower Upper

43 100

72 25.8 21.7 32.5



#29

Tetrahydrofuran

Concen: 0.485 ug/l

RT: 7.698 min Scan# 971

Delta R.T. 0.018 min

Lab File: VN070969.D

Acq: 16 Feb 2022 19:55

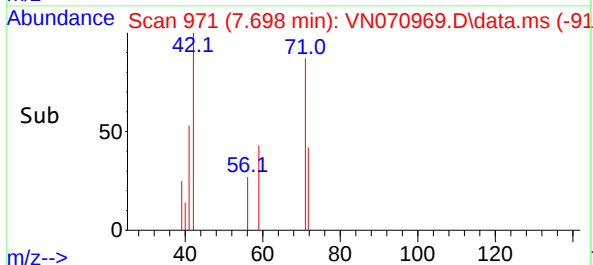
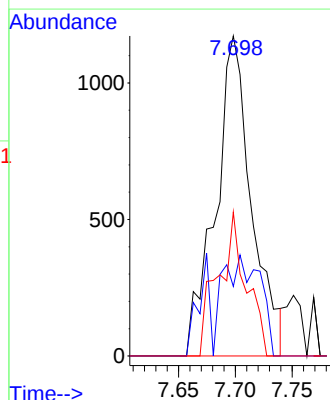
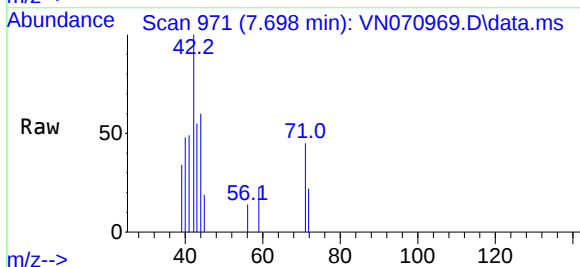
Tgt Ion: 42 Resp: 2592

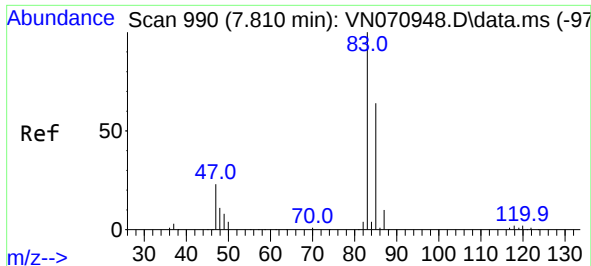
Ion Ratio Lower Upper

42 100

72 12.1 36.3 54.5#

71 35.2 34.7 52.1

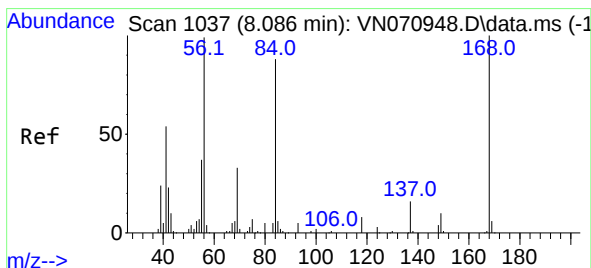
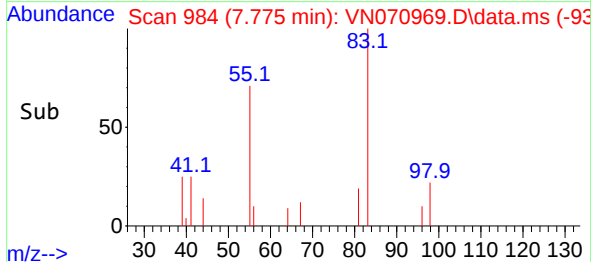
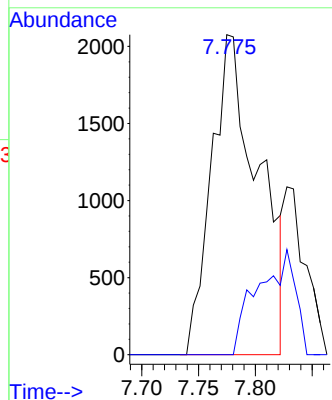
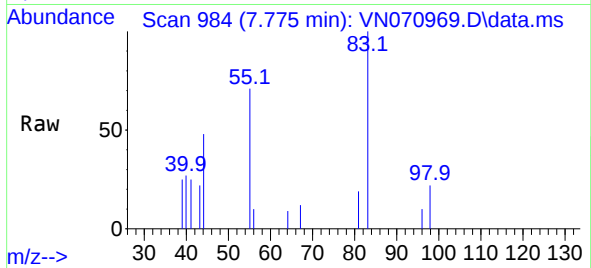




#30
Chloroform
Concen: 0.305 ug/l
RT: 7.775 min Scan# 91
Delta R.T. -0.035 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

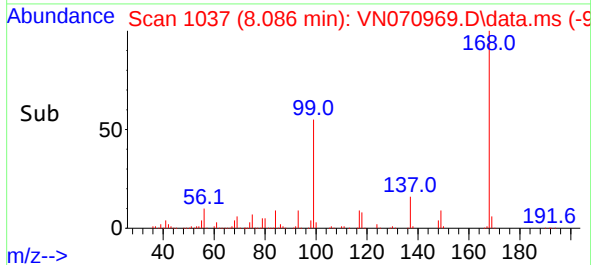
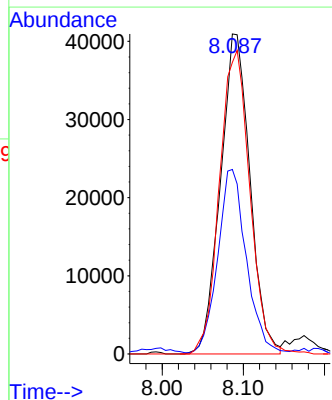
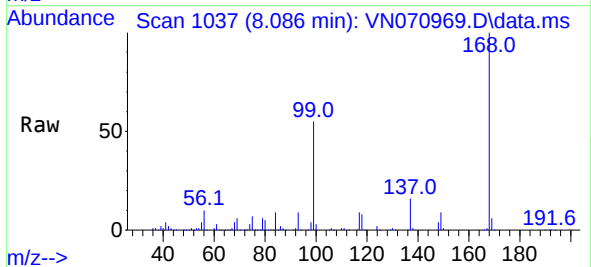
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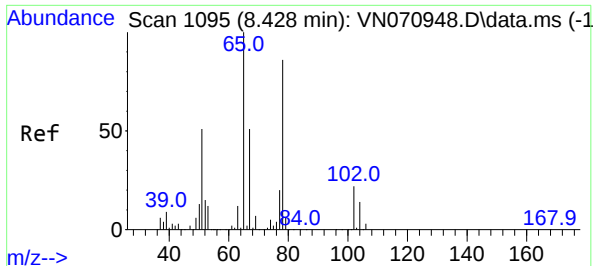
Tgt Ion: 83 Resp: 5945
Ion Ratio Lower Upper
83 100
85 0.0 51.9 77.9#



#31
Cyclohexane
Concen: 5.305 ug/l
RT: 8.086 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 56 Resp: 103362
Ion Ratio Lower Upper
56 100
69 56.9 27.1 40.7#
84 91.1 73.4 110.0

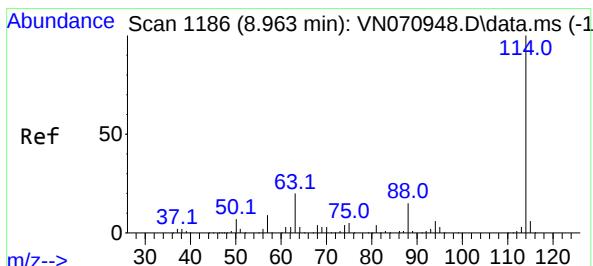
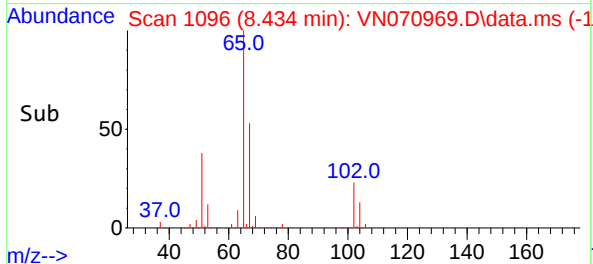
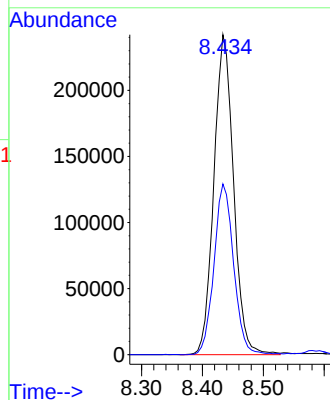
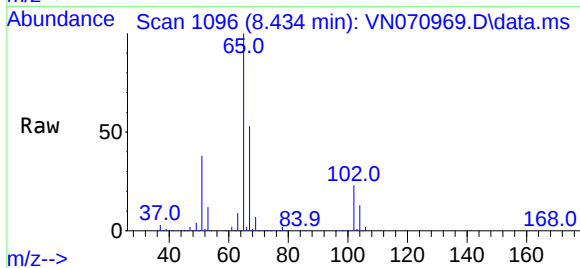




#33
1,2-Dichloroethane-d4
Concen: 48.237 ug/l
RT: 8.434 min Scan# 1095
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

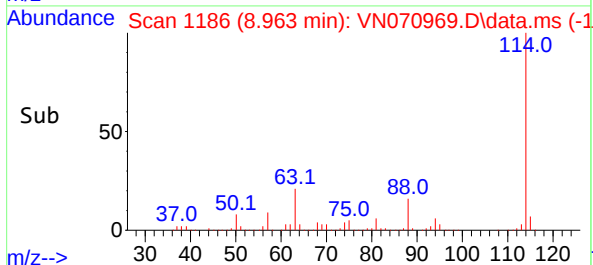
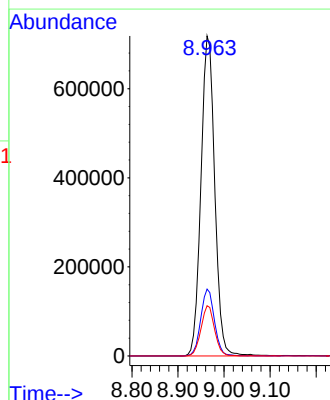
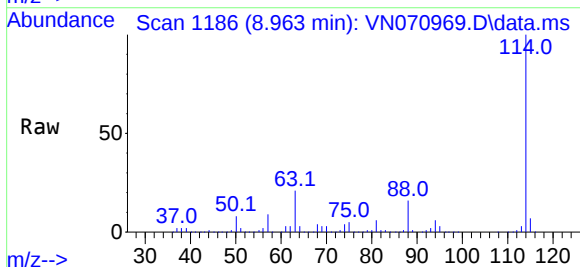
Instrument :
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ClientSampleId :
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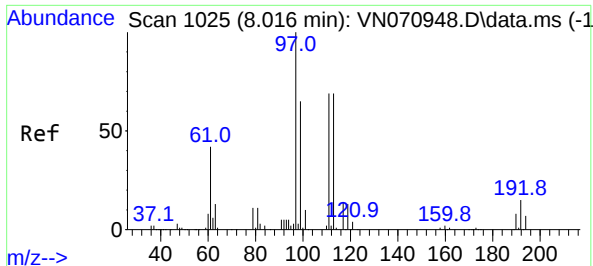
Tgt Ion: 65 Resp: 543420
Ion Ratio Lower Upper
65 100
67 53.4 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 114 Resp: 1503670
Ion Ratio Lower Upper
114 100
63 20.9 0.0 37.8
88 15.7 0.0 27.4

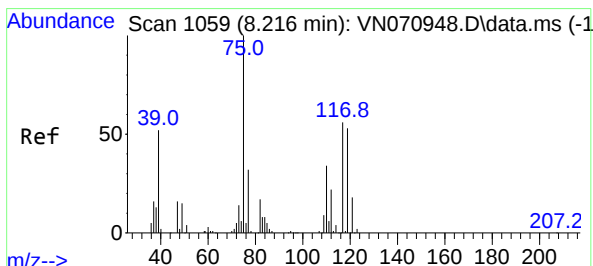
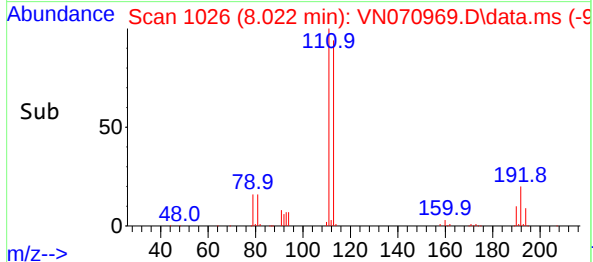
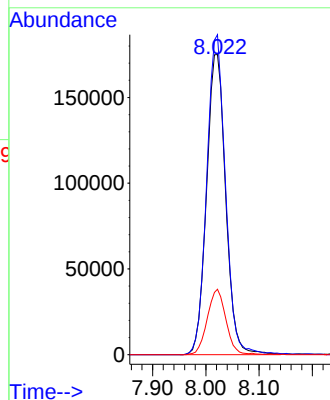
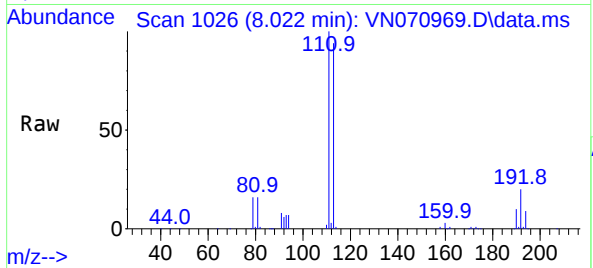




#35
Dibromofluoromethane
Concen: 48.905 ug/l
RT: 8.022 min Scan# 1036
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

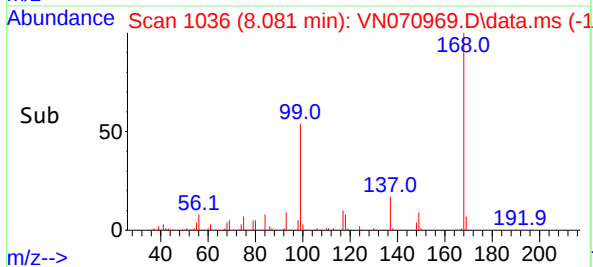
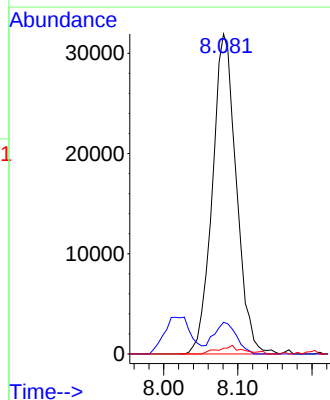
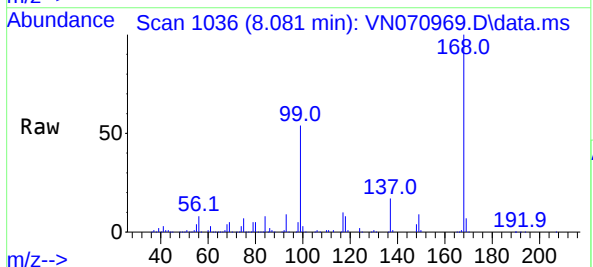
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

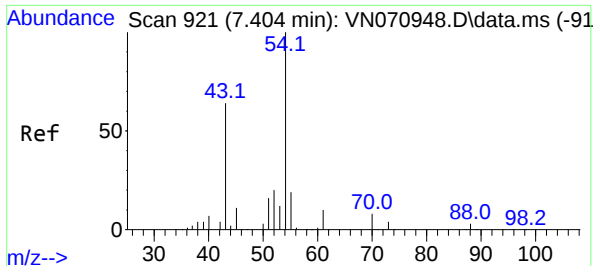
Tgt Ion:113 Resp: 437400
Ion Ratio Lower Upper
113 100
111 104.2 82.2 123.2
192 21.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.885 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 75 Resp: 71581
Ion Ratio Lower Upper
75 100
110 9.6 18.4 55.2#
77 2.7 24.4 36.6#

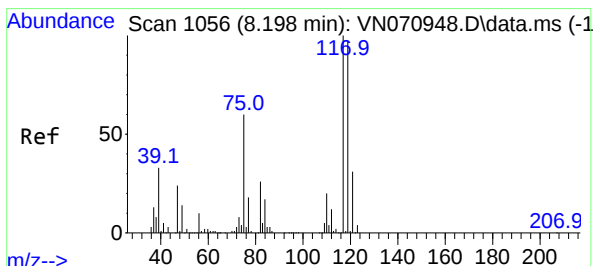
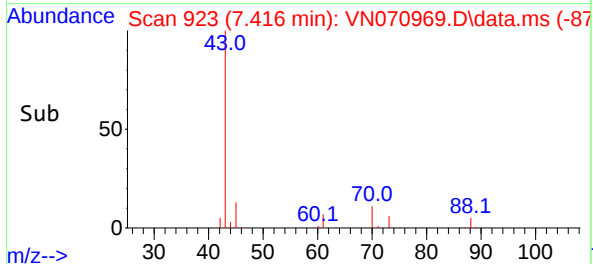
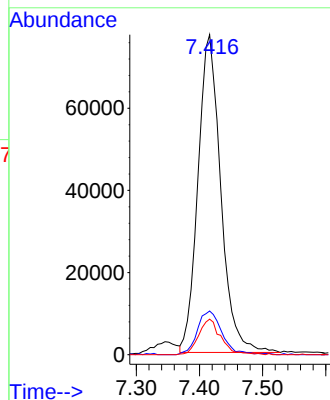
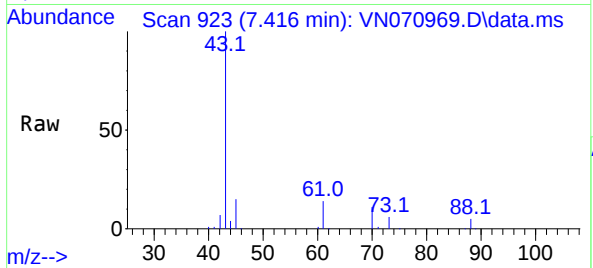




#37
Ethyl Acetate
Concen: 12.360 ug/l
RT: 7.416 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

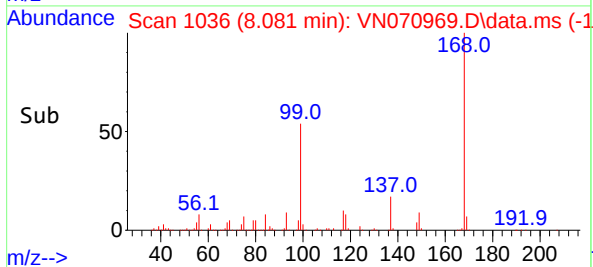
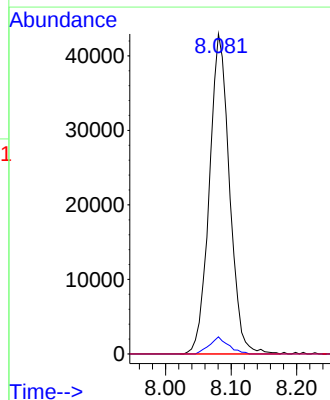
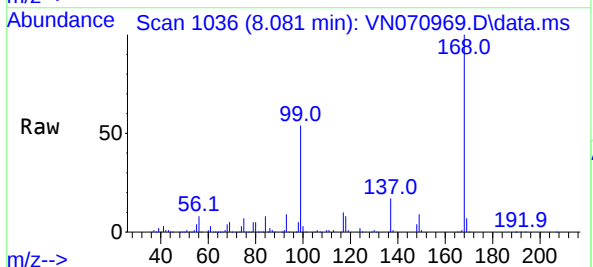
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

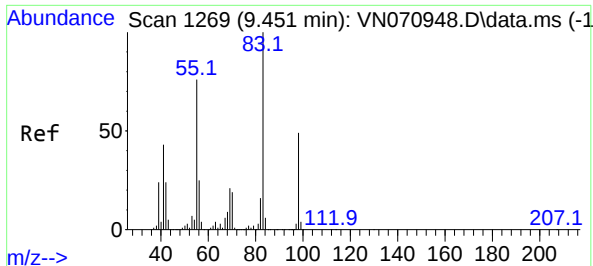
Tgt Ion: 43 Resp: 194236
Ion Ratio Lower Upper
43 100
61 14.8 11.5 17.3
70 10.9 7.9 11.9



#38
Carbon Tetrachloride
Concen: 6.353 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.118 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 117 Resp: 91723
Ion Ratio Lower Upper
117 100
119 5.3 76.1 114.1#
121 0.0 24.2 36.2#





#39

Methylcyclohexane

Concen: 0.306 ug/l

RT: 9.198 min Scan# 1100

Delta R.T. -0.253 min

Lab File: VN070969.D

Acq: 16 Feb 2022 19:55

Instrument :

MSVOA_N

ClientSampleId :

GES-1R

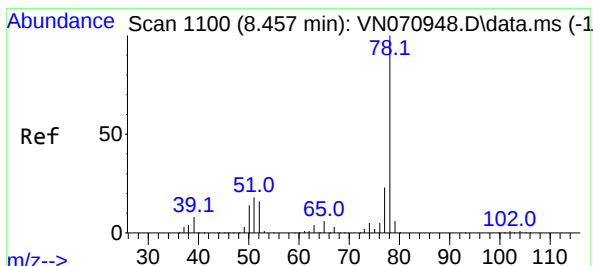
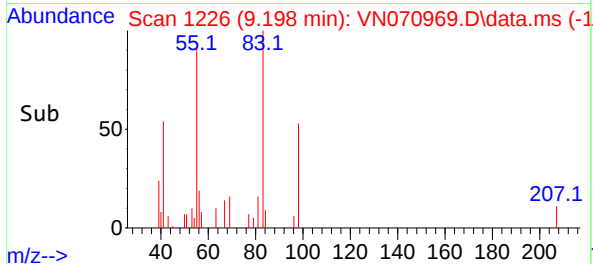
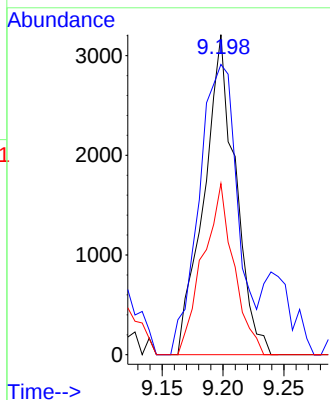
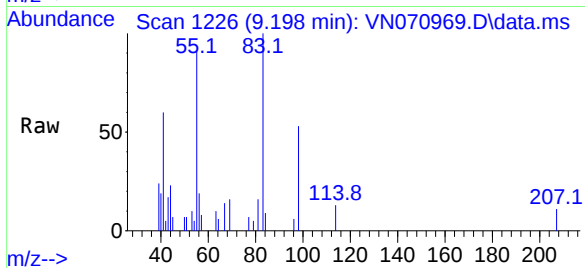
Tgt Ion: 83 Resp: 5769

Ion Ratio Lower Upper

83 100

55 79.8 58.1 87.1

98 53.5 38.4 57.6



#40

Benzene

Concen: 0.799 ug/l

RT: 8.457 min Scan# 1100

Delta R.T. 0.000 min

Lab File: VN070969.D

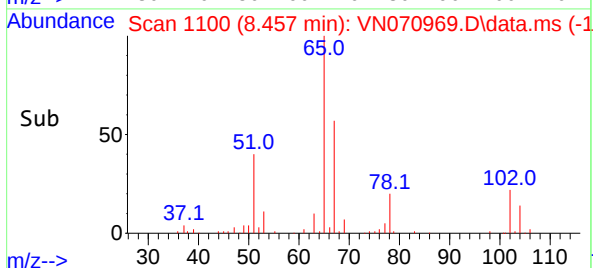
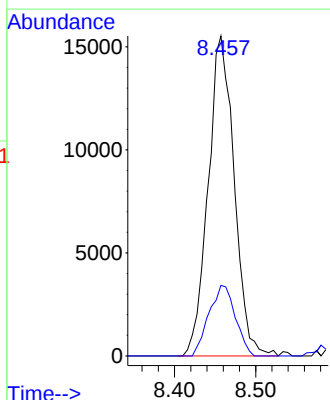
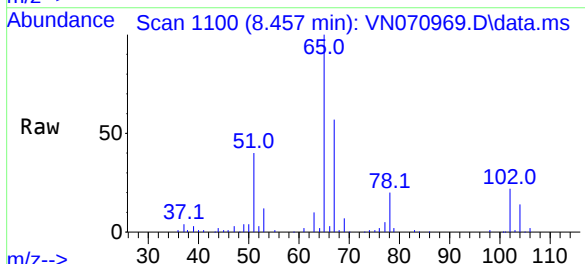
Acq: 16 Feb 2022 19:55

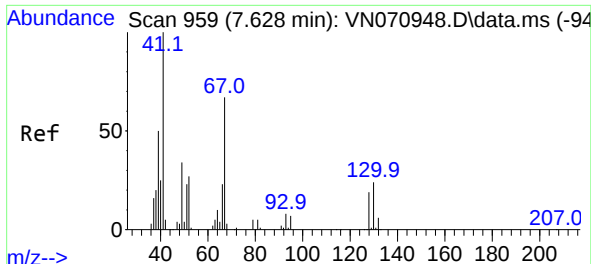
Tgt Ion: 78 Resp: 34631

Ion Ratio Lower Upper

78 100

77 22.1 18.6 27.8

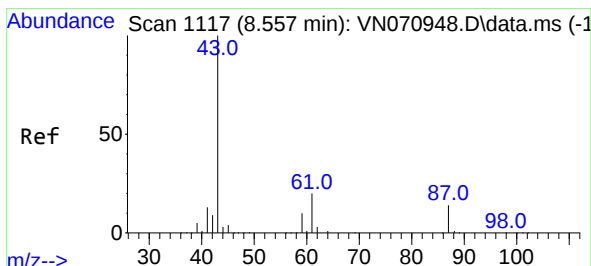
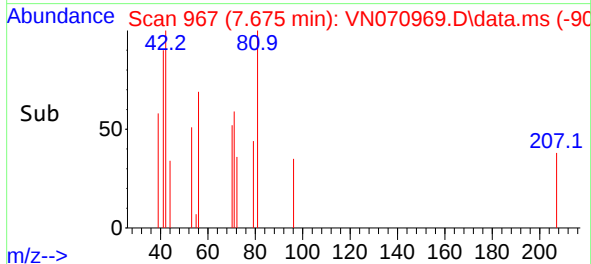
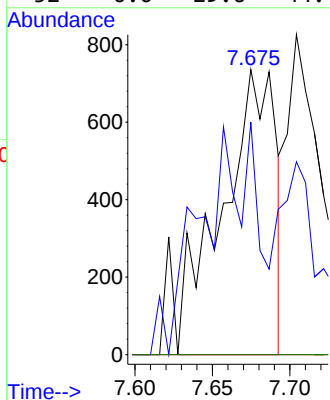
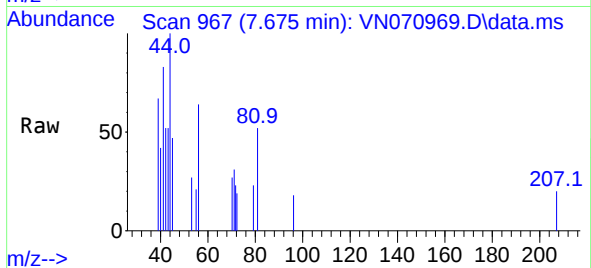




#41
Methacrylonitrile
Concen: 0.214 ug/l
RT: 7.675 min Scan# 91
Delta R.T. 0.047 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

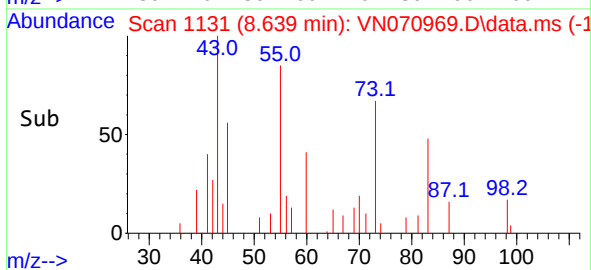
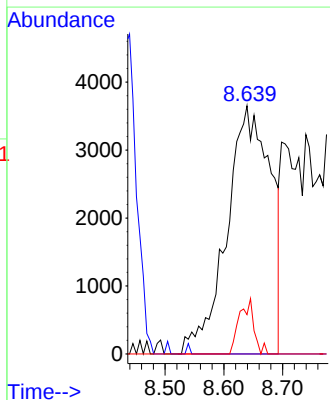
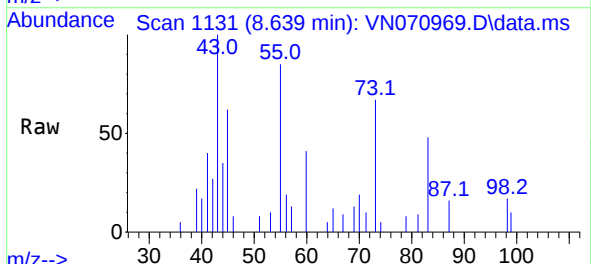
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

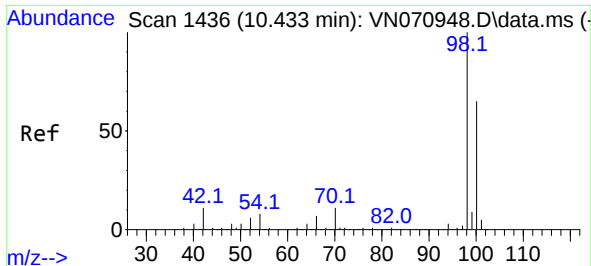
Tgt Ion:	41	Resp:	1774
Ion	Ratio	Lower	Upper
41	100		
39	60.5	48.1	72.1
67	0.0	68.3	102.5#
52	0.0	29.6	44.4#



#43
Isopropyl Acetate
Concen: 0.763 ug/l
RT: 8.639 min Scan# 1131
Delta R.T. 0.082 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion:	43	Resp:	18896
Ion	Ratio	Lower	Upper
43	100		
61	0.0	20.4	30.6#
87	7.4	11.2	16.8#

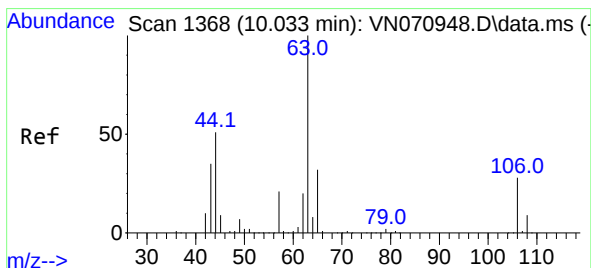
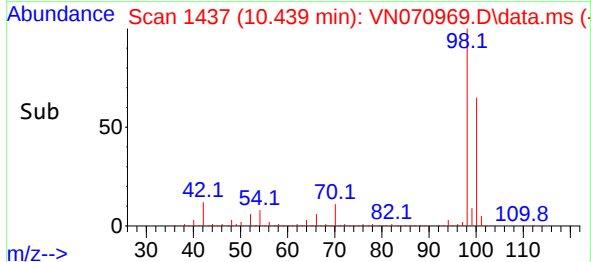
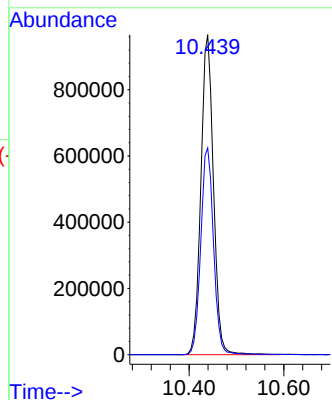
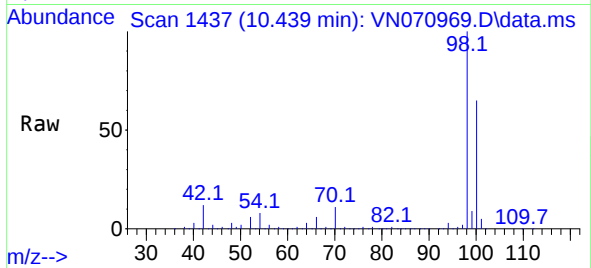




#50
Toluene-d8
Concen: 49.566 ug/l
RT: 10.439 min Scan# 1436
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

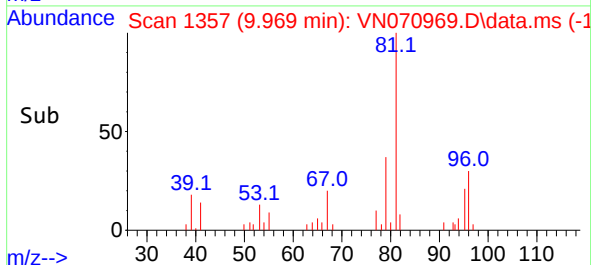
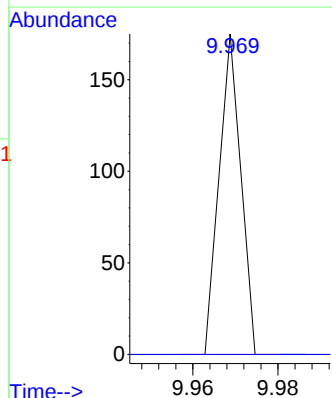
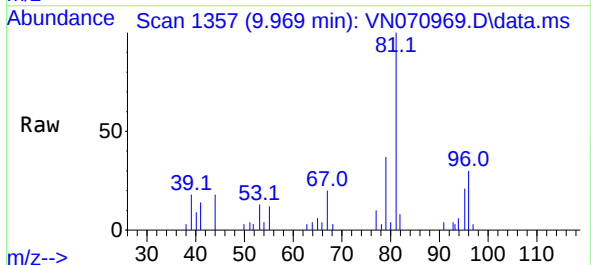
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

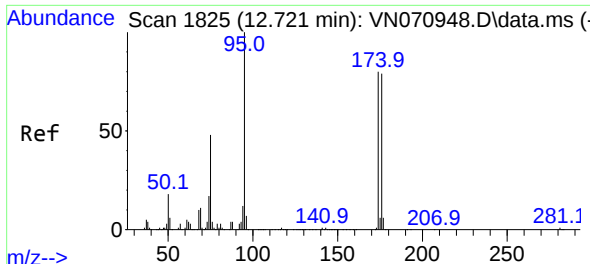
Tgt Ion: 98 Resp: 1780314
Ion Ratio Lower Upper
98 100
100 65.6 50.4 75.6



#58
2-Chloroethyl Vinyl ether
Concen: 31.816 ug/l
RT: 9.969 min Scan# 1357
Delta R.T. -0.064 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 63 Resp: 62
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



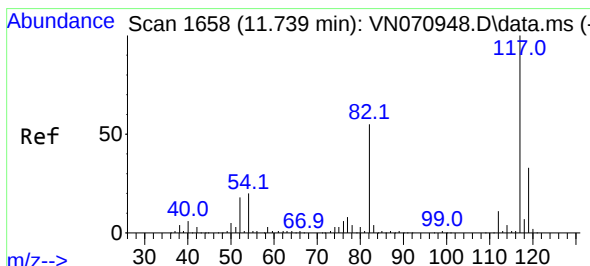
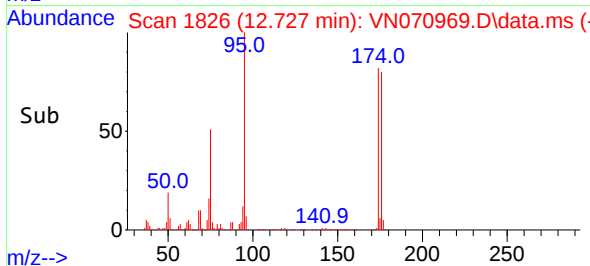
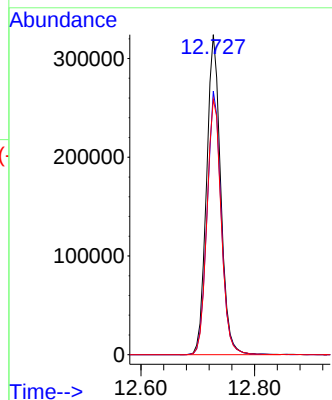
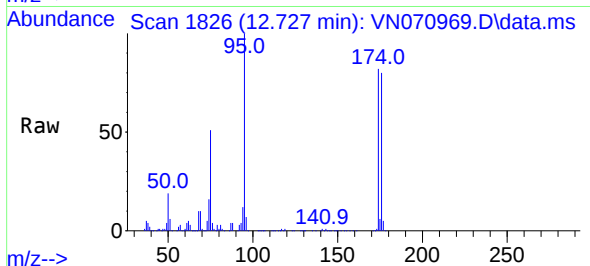


#62
4-Bromofluorobenzene
Concen: 43.354 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Instrument :
MSVOA_N
ClientSampleId :
GES-1R

Tgt Ion: 95 Resp: 556604

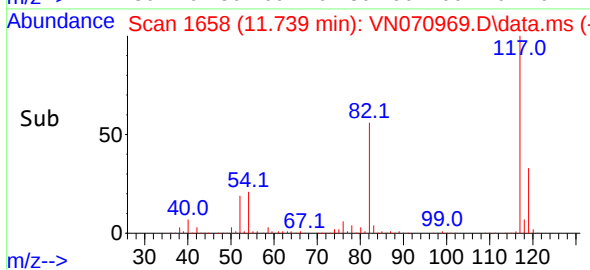
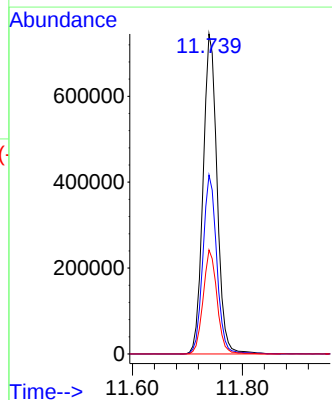
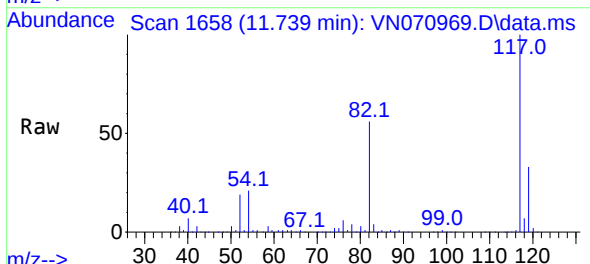
Ion	Ratio	Lower	Upper
95	100		
174	82.2	0.0	187.2
176	81.1	0.0	181.4

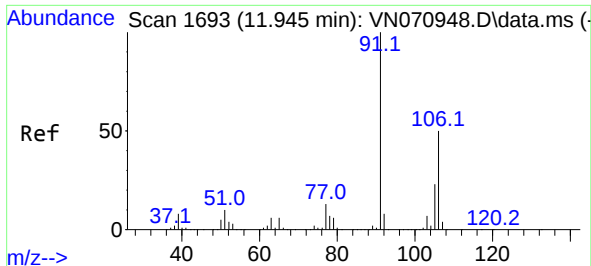


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 117 Resp: 1318949

Ion	Ratio	Lower	Upper
117	100		
82	55.9	42.4	63.6
119	32.5	25.4	38.2

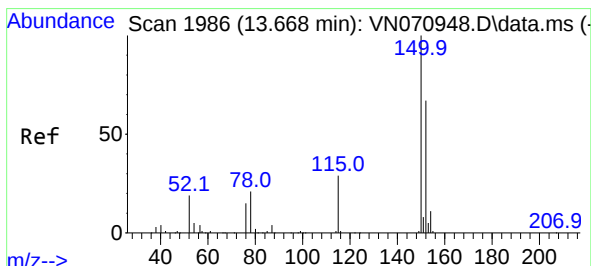
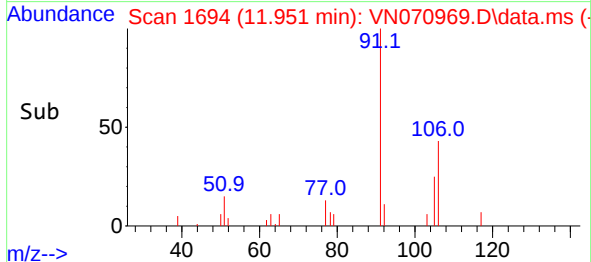
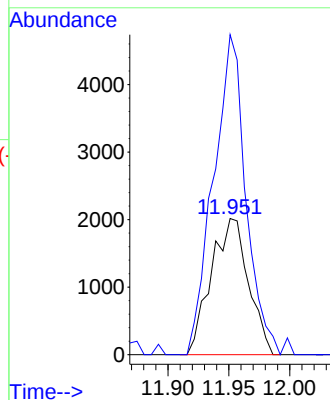
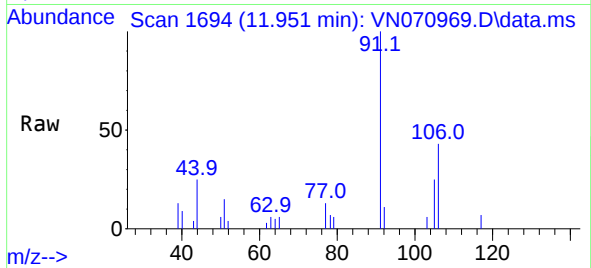




#68
m/p-Xylenes
Concen: 0.224 ug/l
RT: 11.951 min Scan# 1694
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

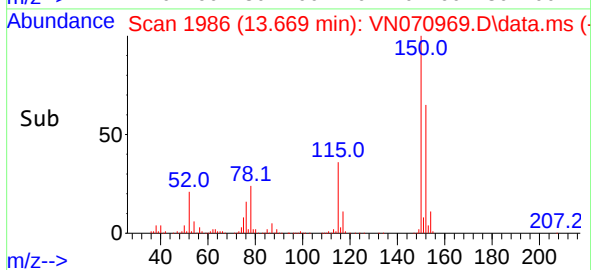
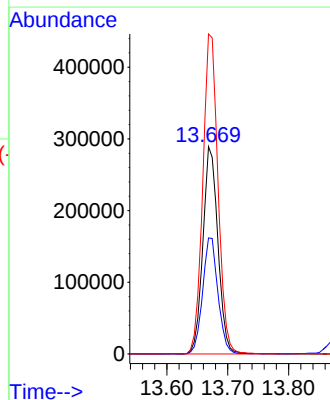
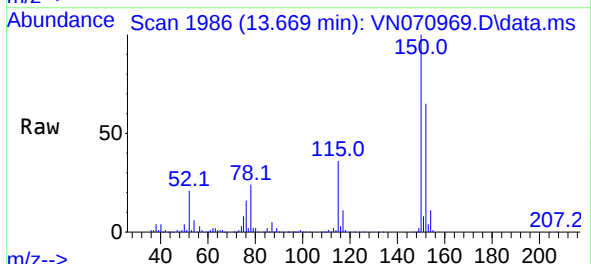
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

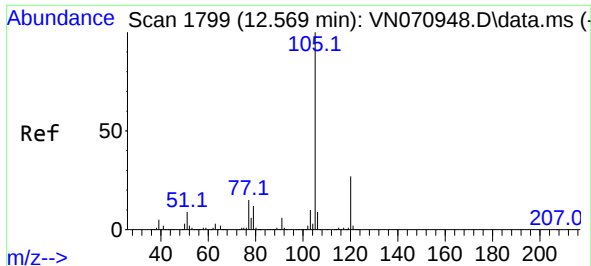
Tgt Ion:106 Resp: 4307
Ion Ratio Lower Upper
106 100
91 206.4 160.6 240.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.000 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion:152 Resp: 496055
Ion Ratio Lower Upper
152 100
115 57.2 27.5 82.5
150 156.8 0.0 344.4

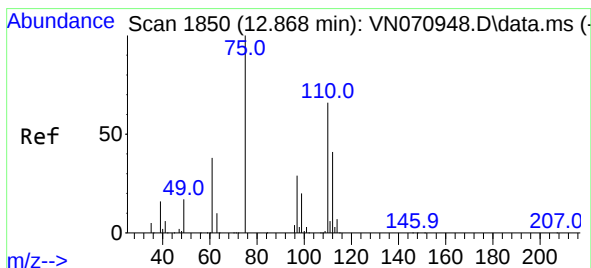
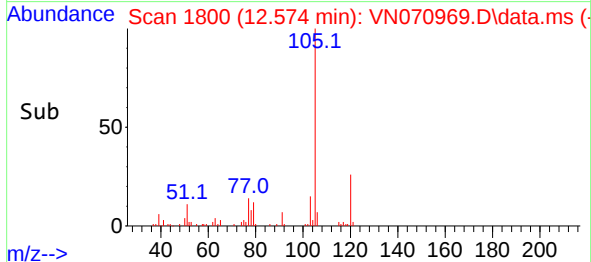
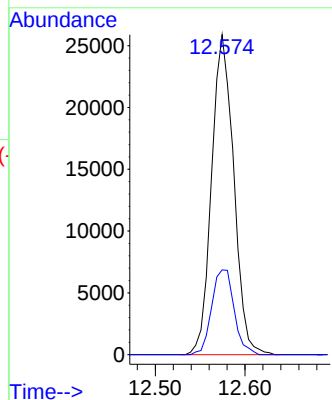
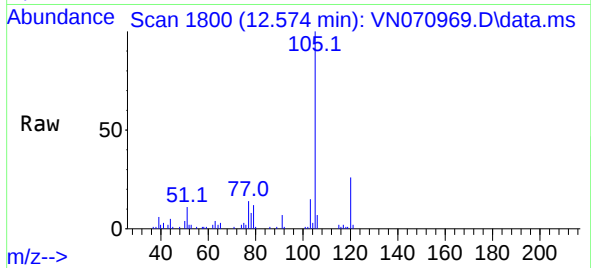




#73
Isopropylbenzene
Concen: 1.110 ug/l
RT: 12.574 min Scan# 1800
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

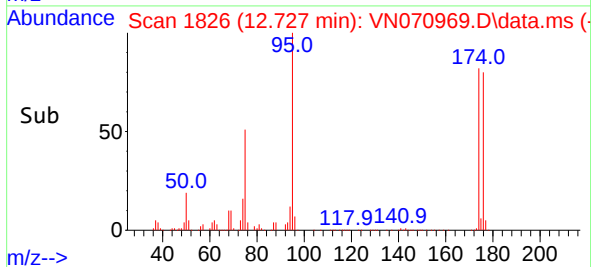
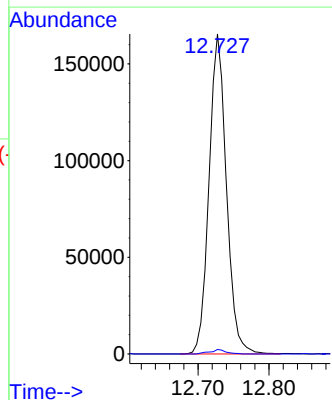
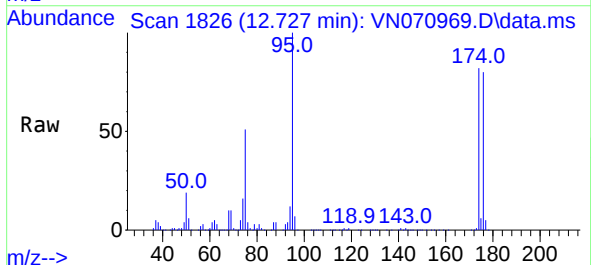
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

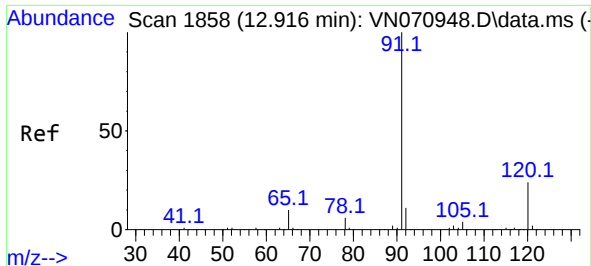
Tgt Ion:105 Resp: 44322
Ion Ratio Lower Upper
105 100
120 26.9 13.4 40.1



#76
1,2,3-Trichloropropane
Concen: 24.103 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 75 Resp: 281518
Ion Ratio Lower Upper
75 100
77 1.3 82.6 247.8#

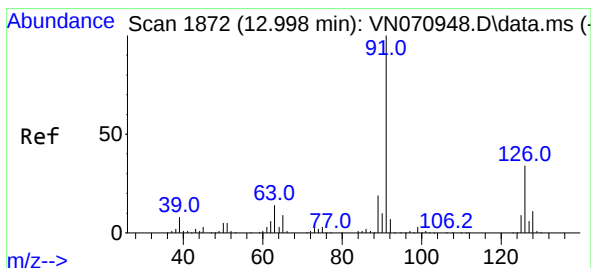
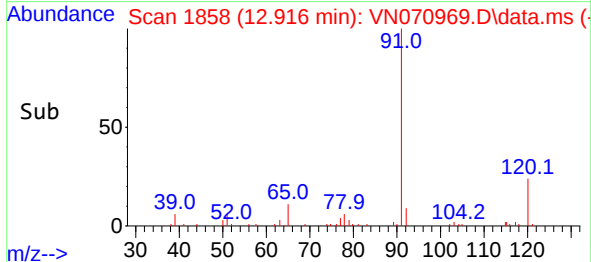
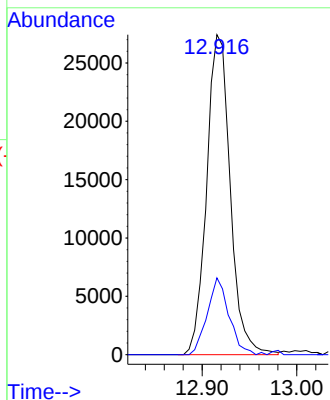
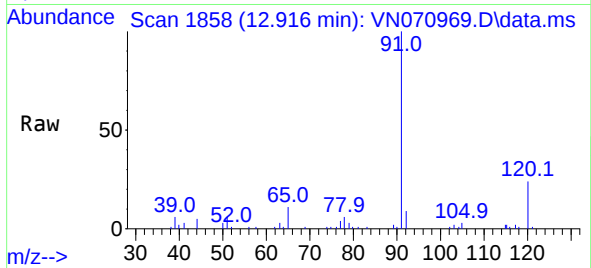




#78
n-propylbenzene
Concen: 1.057 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. 0.000 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

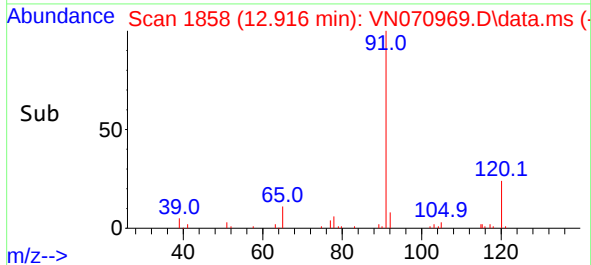
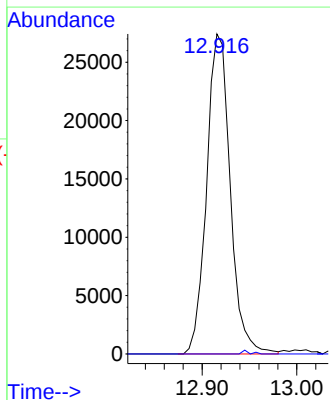
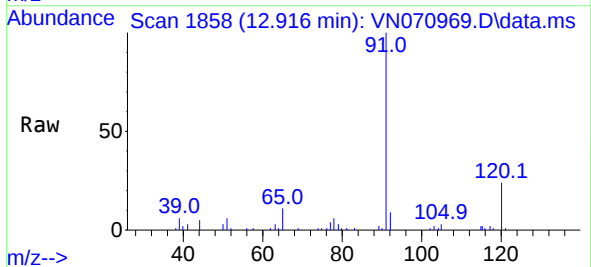
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

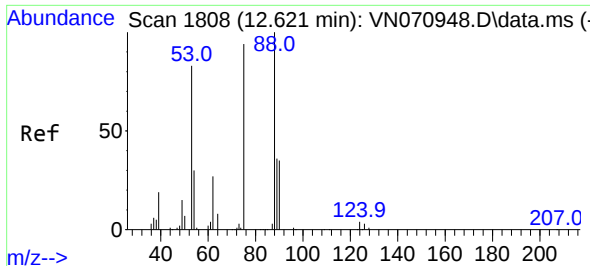
Tgt Ion: 91 Resp: 47407
Ion Ratio Lower Upper
91 100
120 22.2 11.9 35.9



#79
2-Chlorotoluene
Concen: 1.740 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. -0.082 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 91 Resp: 47407
Ion Ratio Lower Upper
91 100
126 0.0 18.3 54.8#

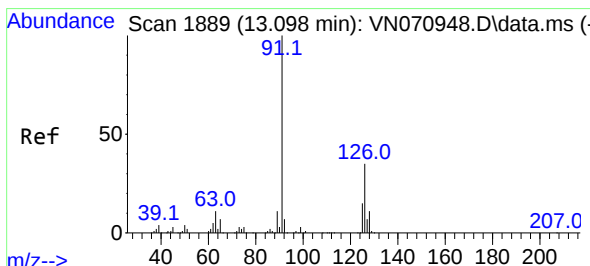
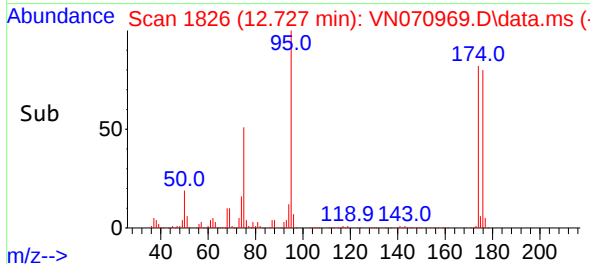
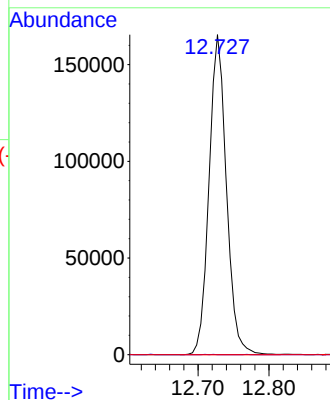
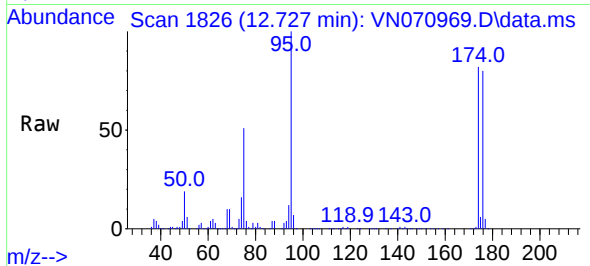




#81
trans-1,4-Dichloro-2-butene
Concen: 78.106 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

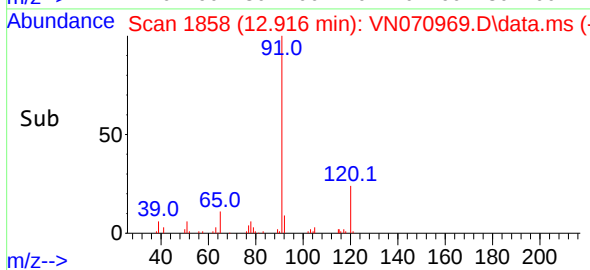
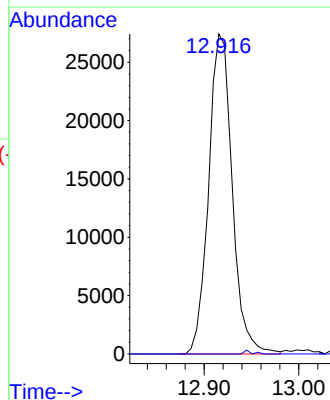
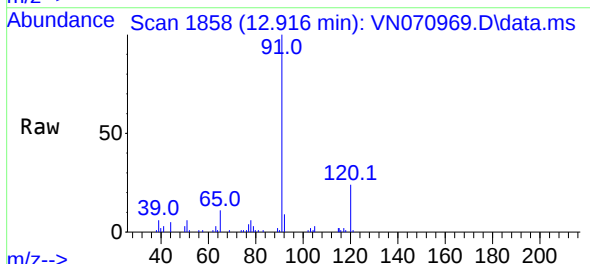
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

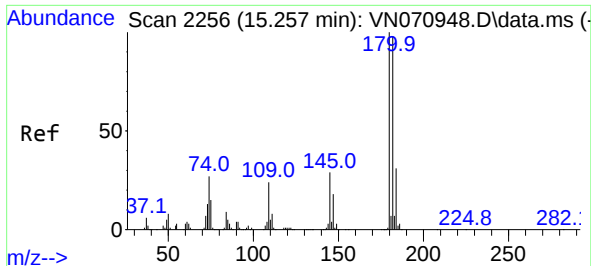
Tgt Ion: 75 Resp: 281518
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#82
4-Chlorotoluene
Concen: 1.793 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. -0.182 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion: 91 Resp: 47407
Ion Ratio Lower Upper
91 100
126 0.0 18.2 54.6#

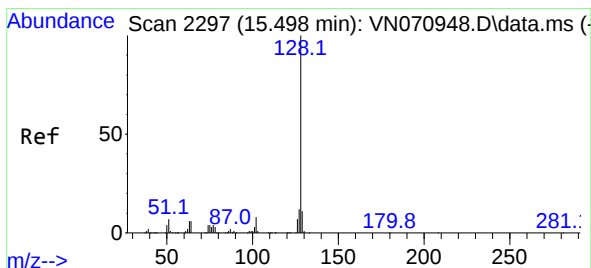
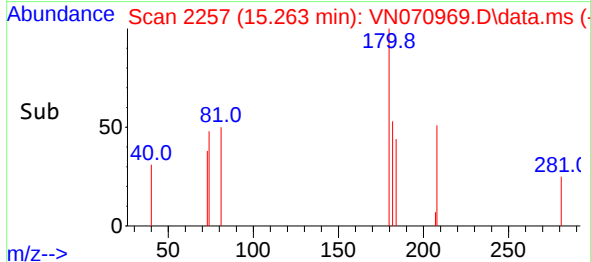
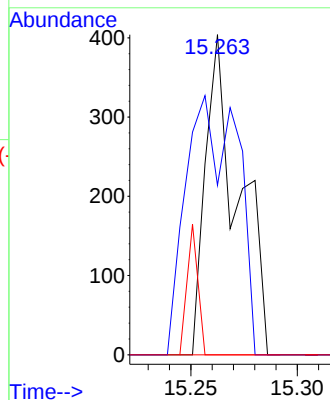
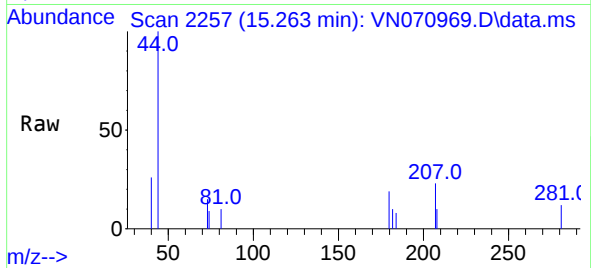




#93
1,2,4-Trichlorobenzene
Concen: 2.045 ug/l
RT: 15.263 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

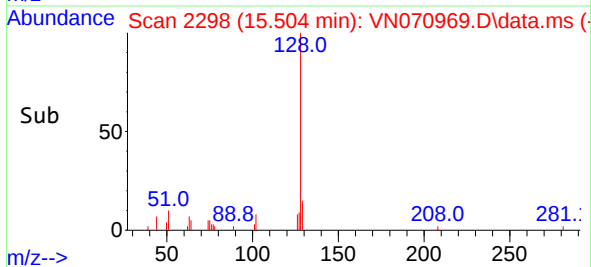
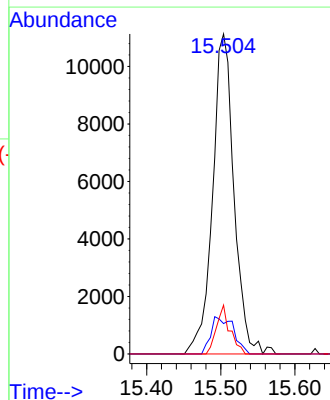
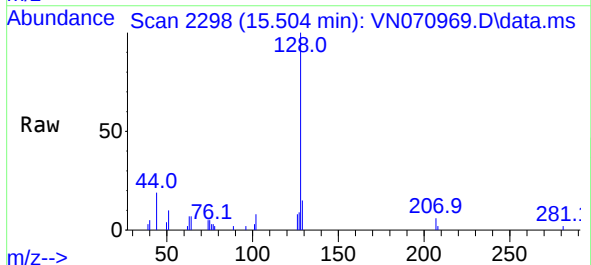
Instrument :
MSVOA_N
ClientSampleId :
GES-1R

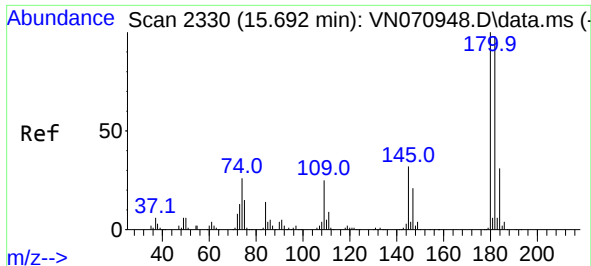
Tgt Ion:	180	Resp:	435
Ion	Ratio	Lower	Upper
180	100		
182	126.0	48.3	144.9
145	13.3	14.5	43.5#



#95
Naphthalene
Concen: 5.897 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. 0.006 min
Lab File: VN070969.D
Acq: 16 Feb 2022 19:55

Tgt Ion:	128	Resp:	22344
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.5	15.7
129	9.6	8.7	13.1





#96

1,2,3-Trichlorobenzene

Concen: 2.575 ug/l

RT: 15.704 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN070969.D

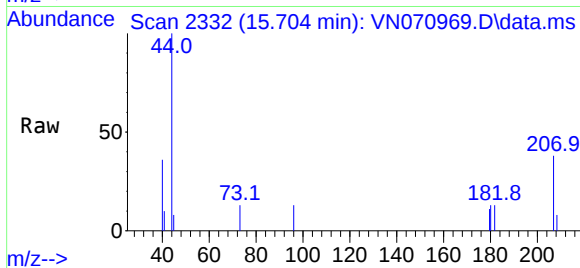
Acq: 16 Feb 2022 19:55

Instrument :

MSVOA_N

ClientSampleId :

GES-1R



Tgt Ion:180 Resp: 526

Ion Ratio Lower Upper

180 100

182 127.9 47.4 142.2

145 0.0 15.0 45.1#

