

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021622\
 Data File : VN070963.D
 Acq On : 16 Feb 2022 17:27
 Operator : JC\MD
 Sample : N1573-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GES-2R

Quant Time: Feb 17 04:12:30 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	8.080	168	996940	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1522413	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1356824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	526143	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	552088	48.479	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.960%
35) Dibromofluoromethane	8.022	113	451887	49.903	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	99.800%
50) Toluene-d8	10.439	98	1795494	49.374	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.740%
62) 4-Bromofluorobenzene	12.727	95	590233	45.408	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.820%

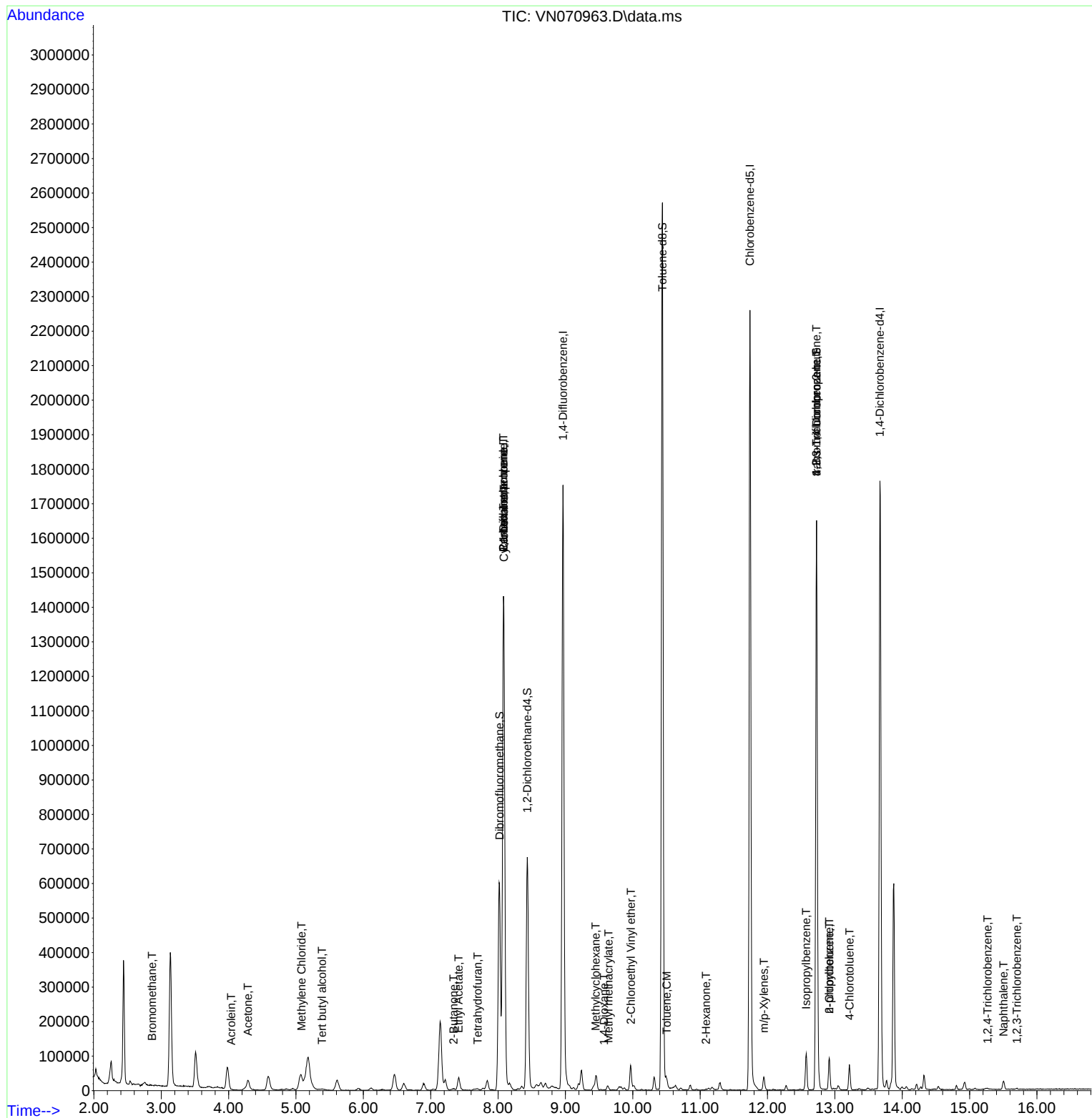
Target Compounds				Qvalue		
5) Bromomethane	2.863	94	1647	0.223	ug/l #	47
11) Tert butyl alcohol	5.387	59	1906	0.918	ug/l #	71
13) Acrolein	4.040	56	448	0.242	ug/l #	14
16) Acetone	4.287	43	50321	8.023	ug/l	94
18) Methyl Acetate	4.857	43	7061	Below Cal	#	70
20) Methylene Chloride	5.081	84	3629	0.318	ug/l #	56
25) 2-Butanone	7.339	43	5221	0.626	ug/l	98
29) Tetrahydrofuran	7.698	42	2720	0.503	ug/l	96
31) Cyclohexane	8.086	56	139084	7.062	ug/l #	91
36) 1,1-Dichloropropene	8.080	75	71930	4.848	ug/l #	51
37) Ethyl Acetate	7.416	43	56609	3.558	ug/l	98
38) Carbon Tetrachloride	8.080	117	96269	6.586	ug/l #	17
39) Methylcyclohexane	9.451	83	17646	0.924	ug/l #	86
48) Methyl methacrylate	9.639	41	2853	0.240	ug/l #	64
49) 1,4-Dioxane	9.574	88	69	0.327	ug/l #	1
52) Toluene	10.504	92	9575	0.347	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.974	63	1047	32.054	ug/l #	45
59) 2-Hexanone	11.086	43	2903	0.277	ug/l	80
68) m/p-Xylenes	11.945	106	12119	0.613	ug/l	99
73) Isopropylbenzene	12.574	105	69521	1.642	ug/l	98
76) 1,2,3-Trichloropropane	12.727	75	292742	23.631	ug/l #	1
78) n-propylbenzene	12.915	91	76927	1.617	ug/l	99
79) 2-Chlorotoluene	12.915	91	76927	2.662	ug/l #	38
81) trans-1,4-Dichloro-2-b...	12.727	75	292742	76.575	ug/l #	5
82) 4-Chlorotoluene	13.215	91	5674	0.202	ug/l #	38
93) 1,2,4-Trichlorobenzene	15.268	180	1165	2.114	ug/l	95
95) Naphthalene	15.504	128	22989	5.869	ug/l	99
96) 1,2,3-Trichlorobenzene	15.704	180	1312	2.655	ug/l	94

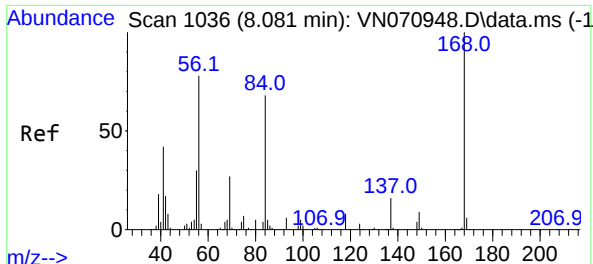
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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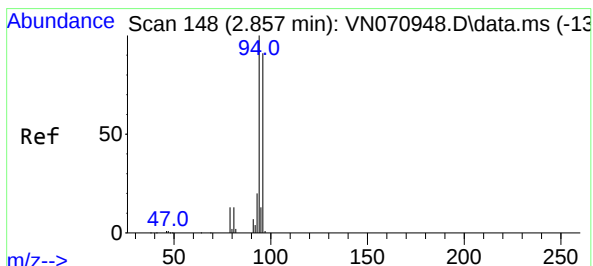
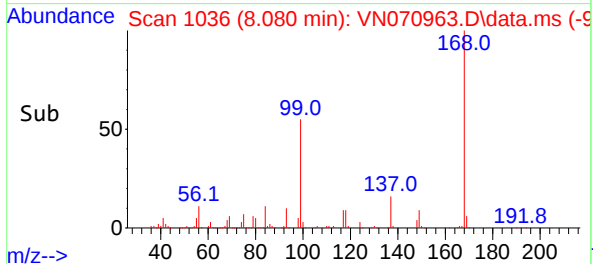
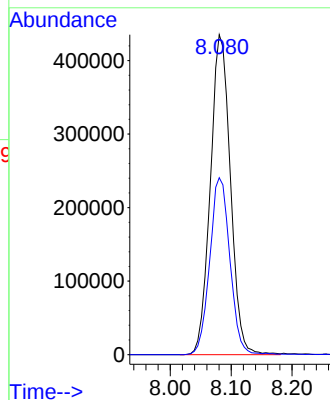
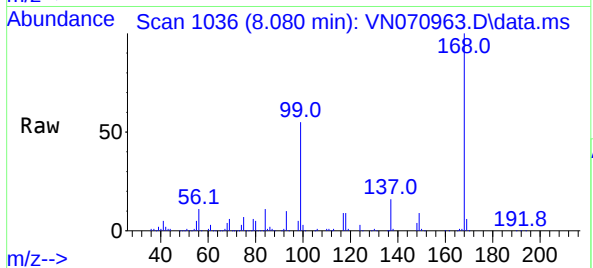




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 1036
Delta R.T. -0.001 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

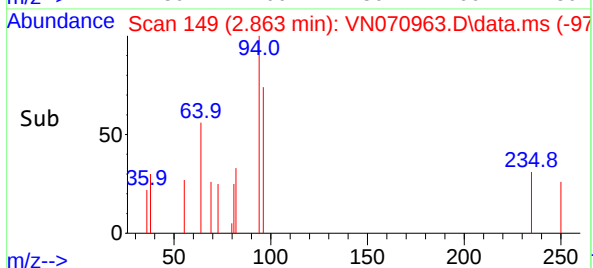
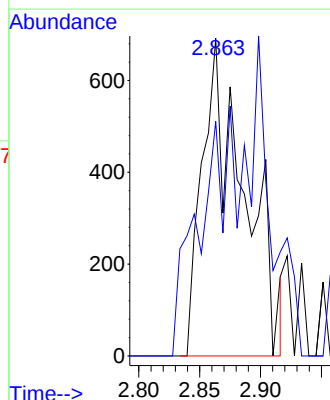
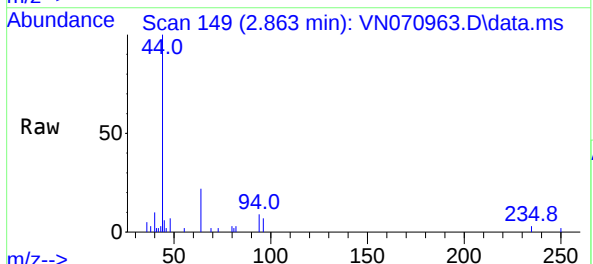
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

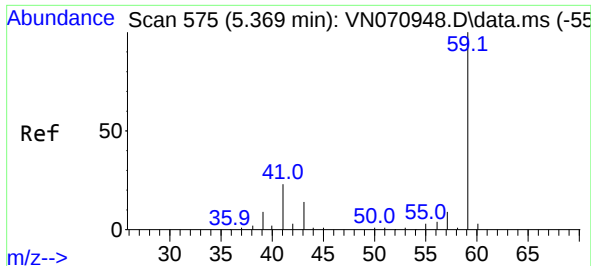
Tgt Ion:168 Resp: 996940
Ion Ratio Lower Upper
168 100
99 55.3 41.3 61.9



#5
Bromomethane
Concen: 0.223 ug/l
RT: 2.863 min Scan# 149
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 94 Resp: 1647
Ion Ratio Lower Upper
94 100
96 41.2 73.8 110.8#

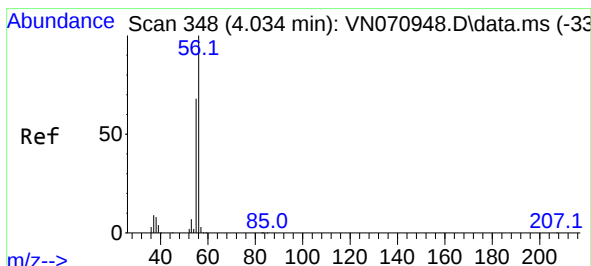
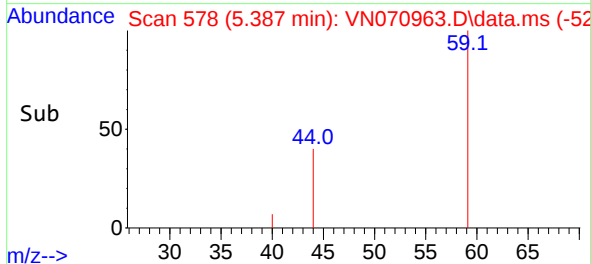
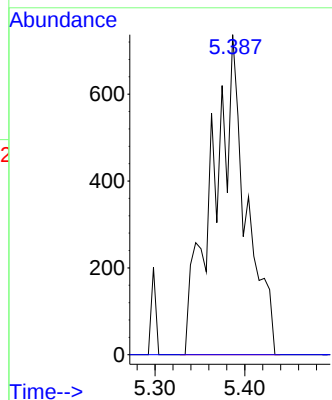
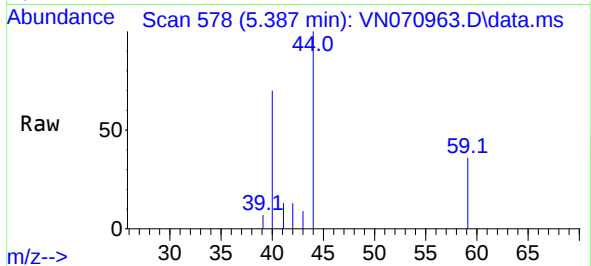




#11
Tert butyl alcohol
Concen: 0.918 ug/l
RT: 5.387 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

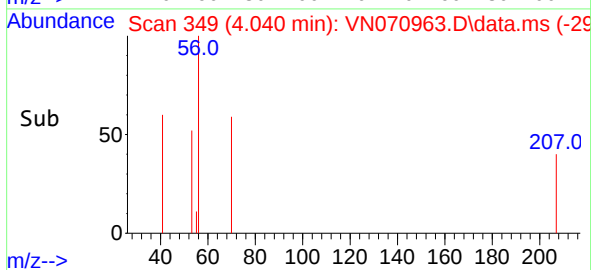
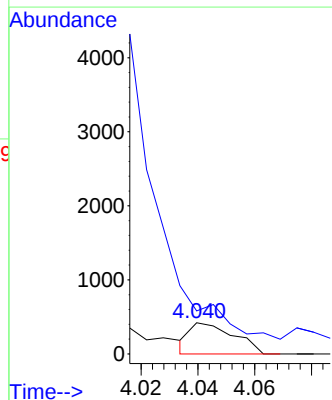
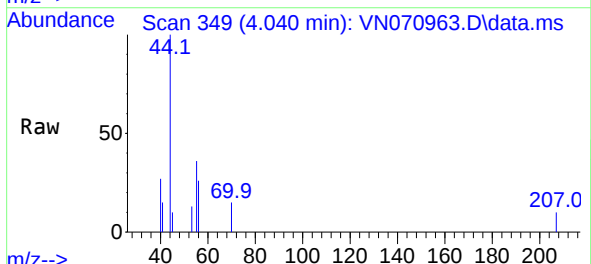
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

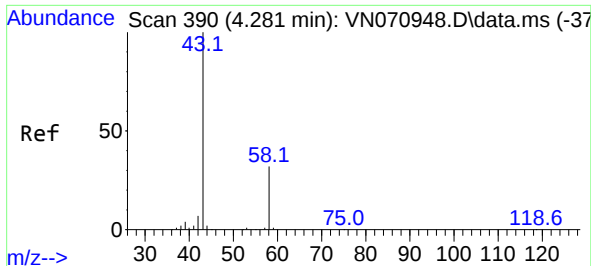
Tgt Ion: 59 Resp: 1906
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.242 ug/l
RT: 4.040 min Scan# 349
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 56 Resp: 448
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#

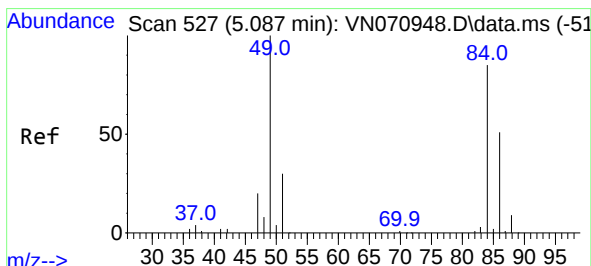
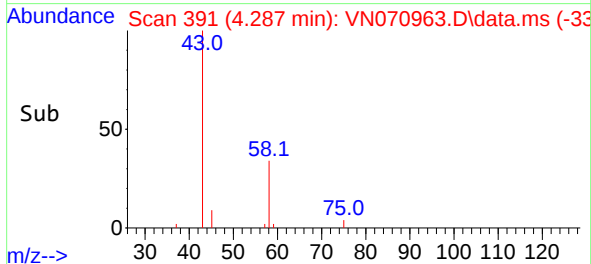
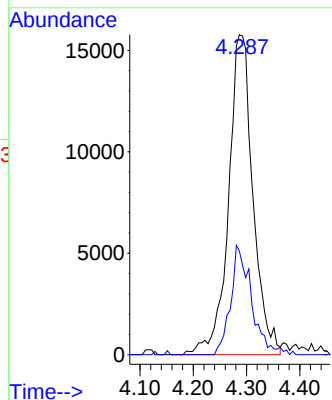
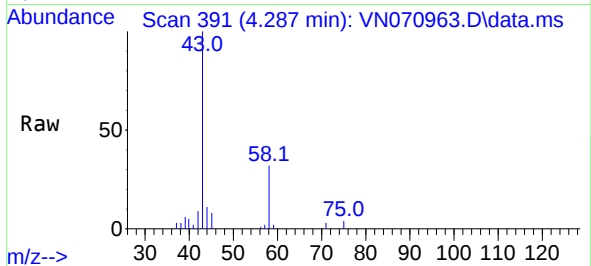




#16
Acetone
Concen: 8.023 ug/l
RT: 4.287 min Scan# 390
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

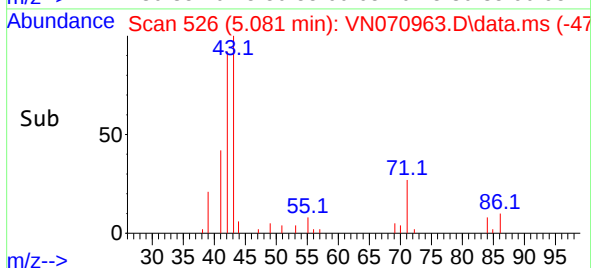
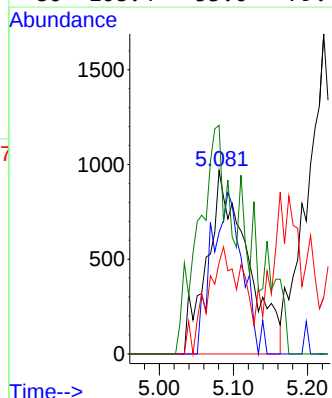
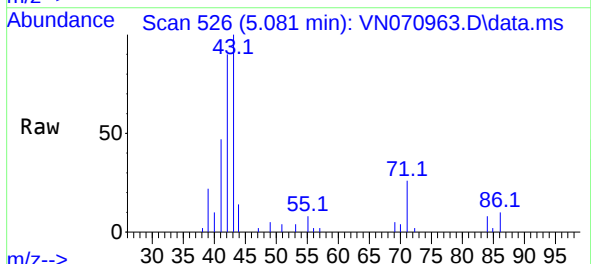
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

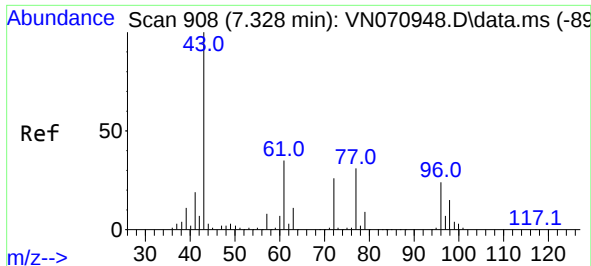
Tgt Ion: 43 Resp: 50321
Ion Ratio Lower Upper
43 100
58 32.3 23.1 34.7



#20
Methylene Chloride
Concen: 0.318 ug/l
RT: 5.081 min Scan# 526
Delta R.T. -0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 84 Resp: 3629
Ion Ratio Lower Upper
84 100
49 66.2 93.5 140.3#
51 49.7 29.4 44.2#
86 108.4 53.0 79.4#

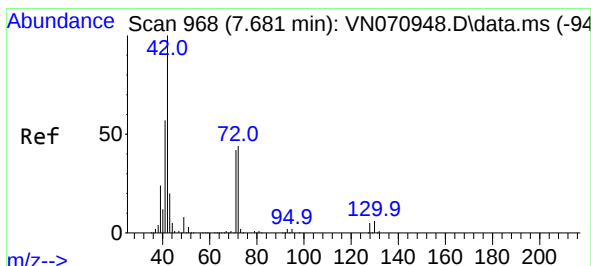
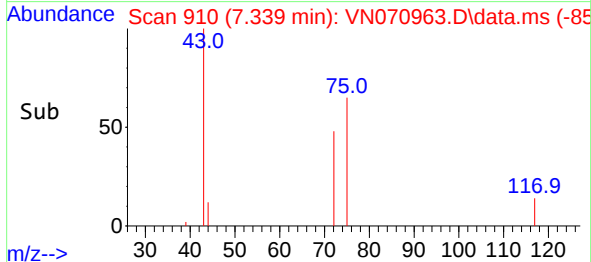
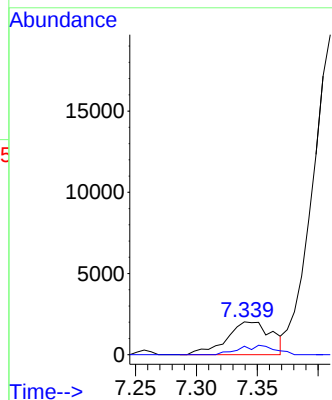
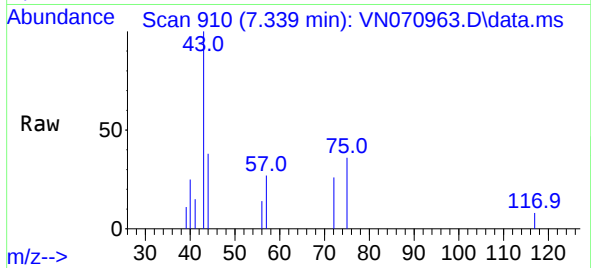




#25
2-Butanone
Concen: 0.626 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.012 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

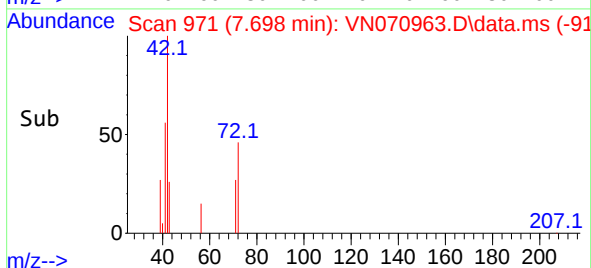
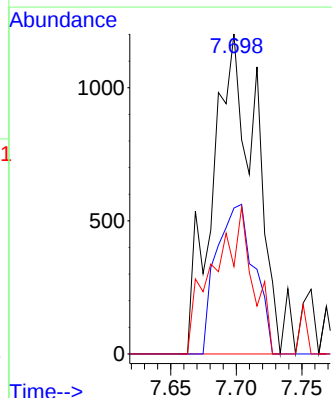
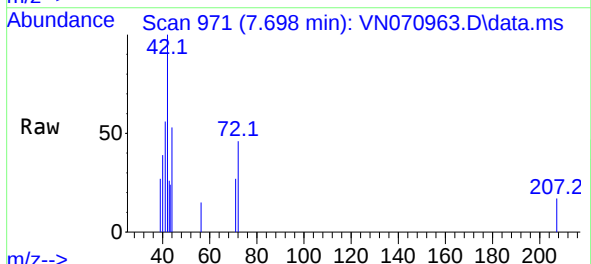
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

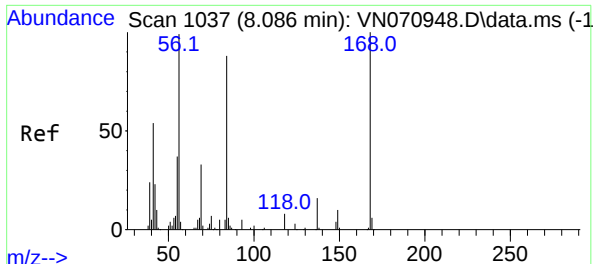
Tgt Ion: 43 Resp: 5221
Ion Ratio Lower Upper
43 100
72 26.0 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.503 ug/l
RT: 7.698 min Scan# 971
Delta R.T. 0.018 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 42 Resp: 2720
Ion Ratio Lower Upper
42 100
72 41.4 36.3 54.5
71 42.2 34.7 52.1

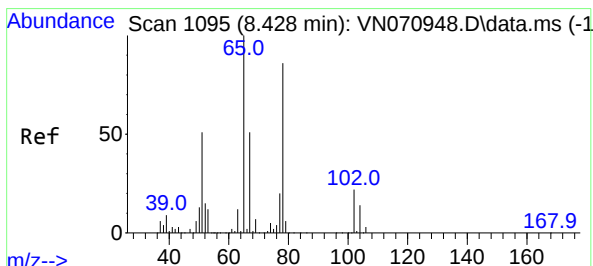
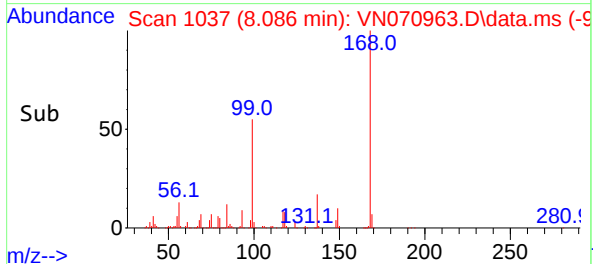
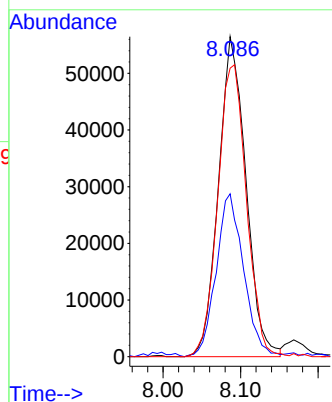
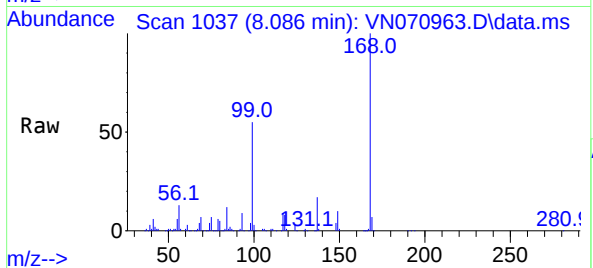




#31
Cyclohexane
Concen: 7.062 ug/l
RT: 8.086 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

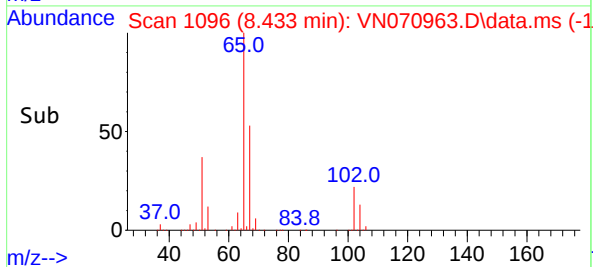
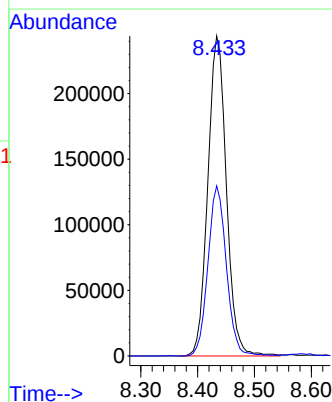
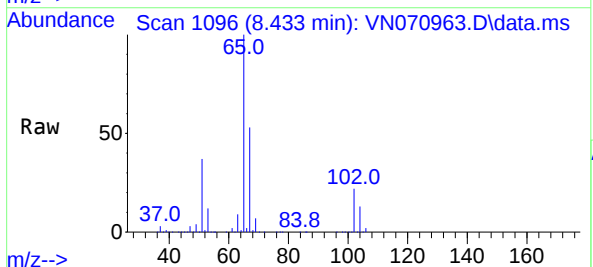
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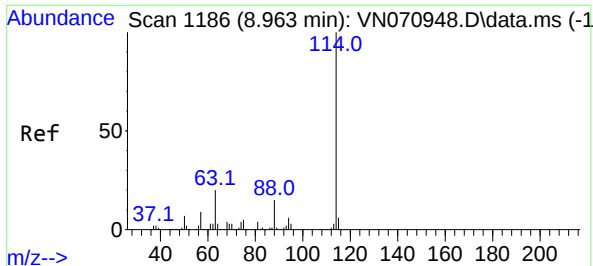
Tgt Ion: 56 Resp: 139084
Ion Ratio Lower Upper
56 100
69 50.6 27.1 40.7#
84 90.1 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 48.479 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 65 Resp: 552088
Ion Ratio Lower Upper
65 100
67 52.9 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: VN070963.D

Acq: 16 Feb 2022 17:27

Instrument :

MSVOA_N

ClientSampleId :

GES-2R

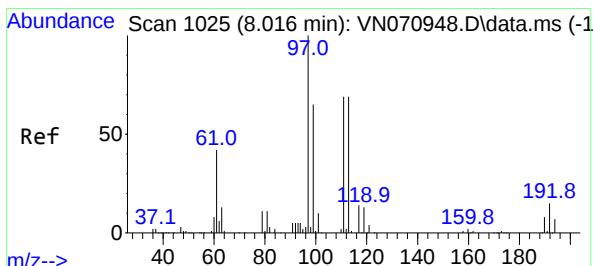
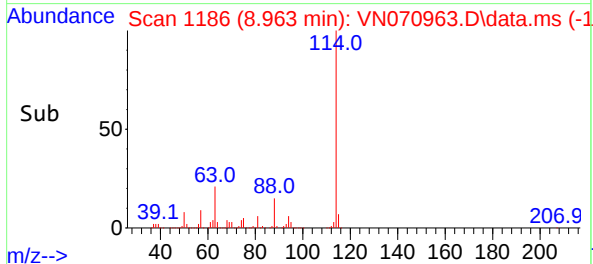
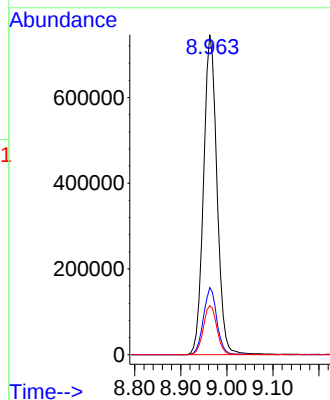
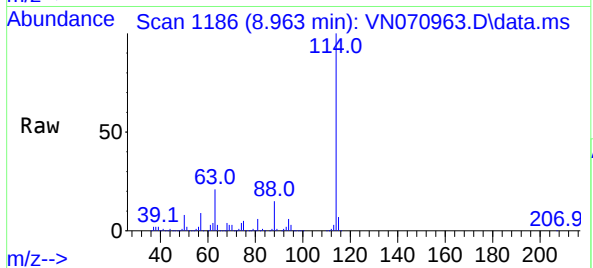
Tgt Ion:114 Resp: 1522413

Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.8

88 15.3 0.0 27.4



#35

Dibromofluoromethane

Concen: 49.903 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN070963.D

Acq: 16 Feb 2022 17:27

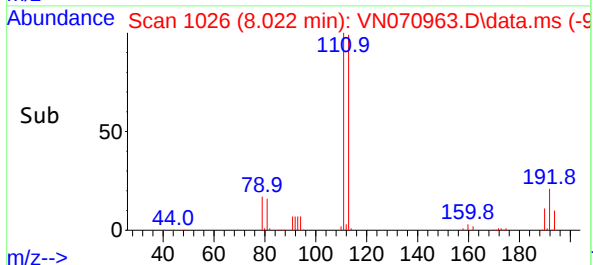
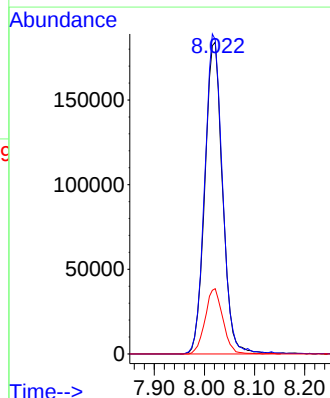
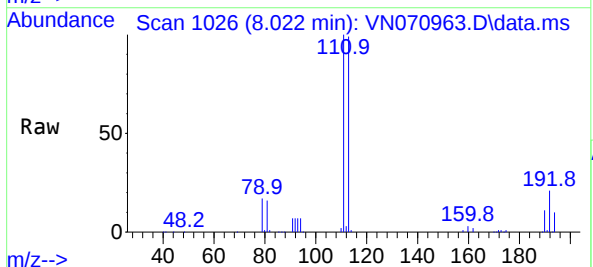
Tgt Ion:113 Resp: 451887

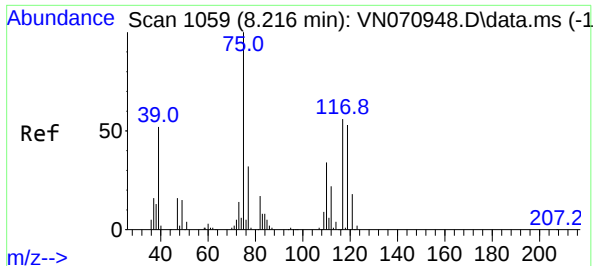
Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

192 21.0 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.848 ug/l

RT: 8.080 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN070963.D

Acq: 16 Feb 2022 17:27

Instrument :

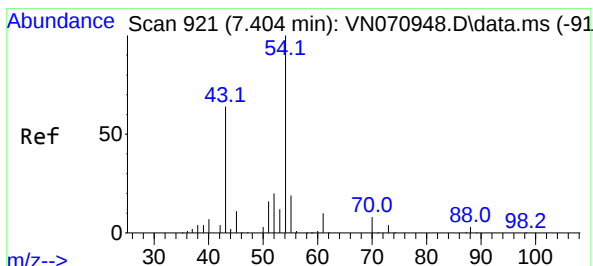
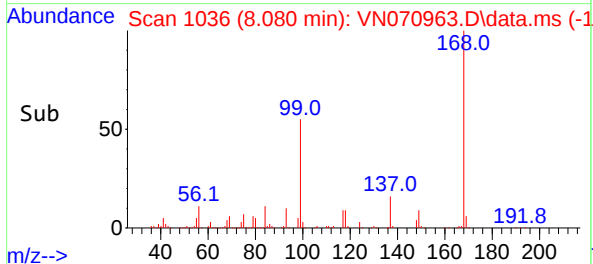
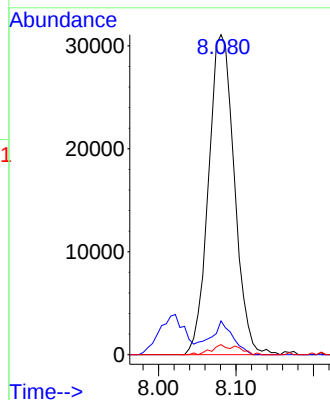
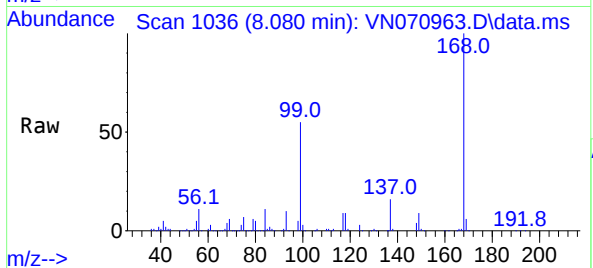
MSVOA_N

ClientSampleId :

GES-2R

Tgt Ion: 75 Resp: 71930

Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.4	55.2#
77	2.1	24.4	36.6#



#37

Ethyl Acetate

Concen: 3.558 ug/l

RT: 7.416 min Scan# 923

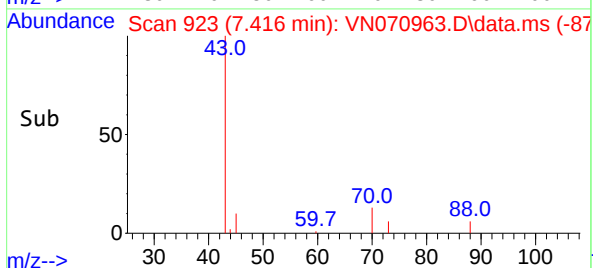
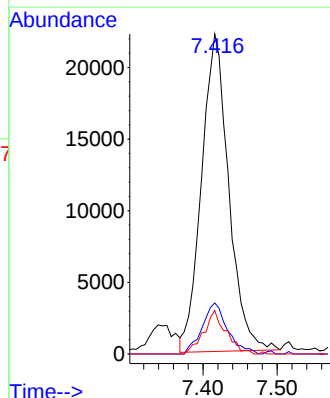
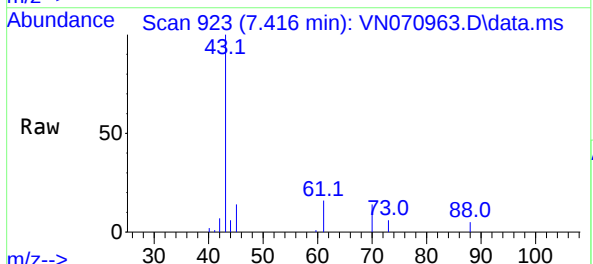
Delta R.T. 0.012 min

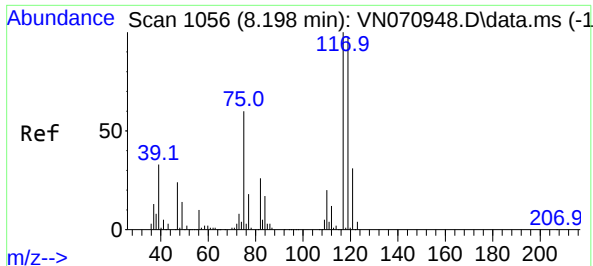
Lab File: VN070963.D

Acq: 16 Feb 2022 17:27

Tgt Ion: 43 Resp: 56609

Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.5	17.3
70	11.2	7.9	11.9

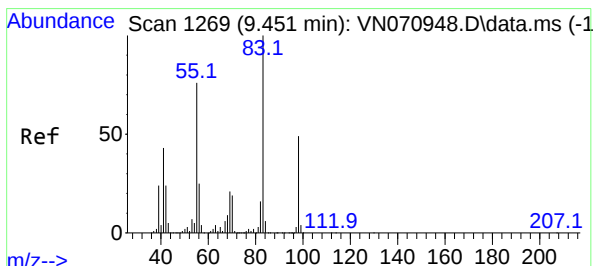
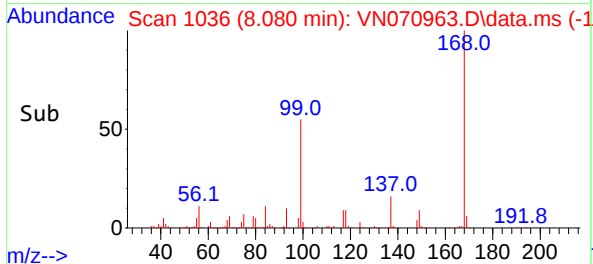
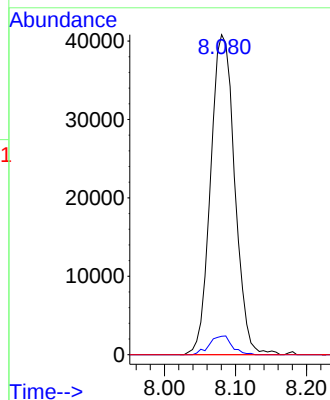
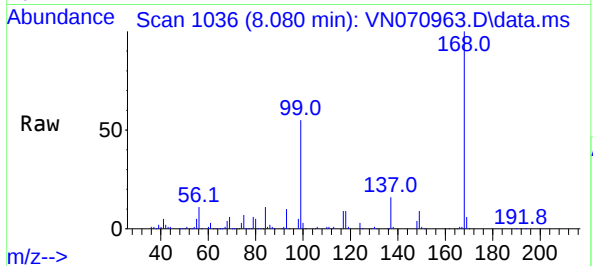




#38
Carbon Tetrachloride
Concen: 6.586 ug/l
RT: 8.080 min Scan# 117
Delta R.T. -0.118 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

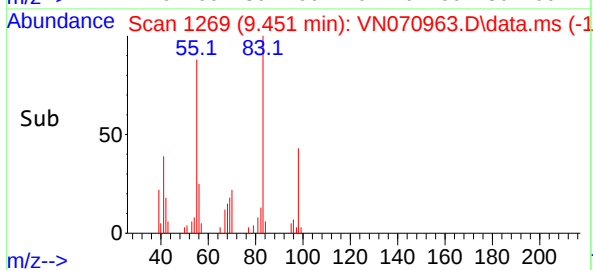
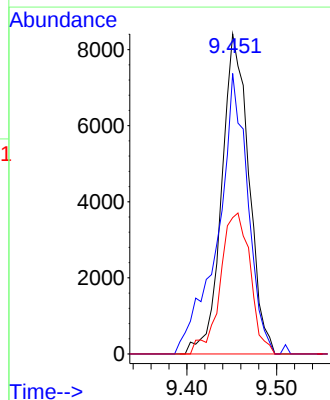
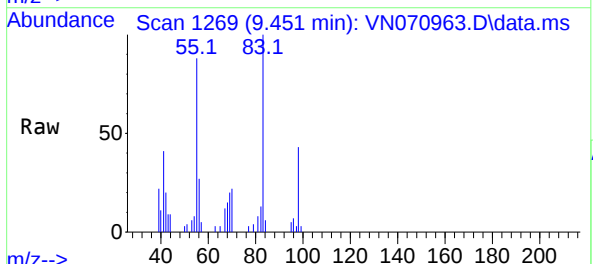
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

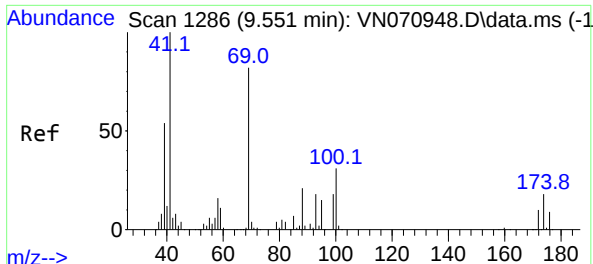
Tgt Ion:117 Resp: 96269
Ion Ratio Lower Upper
117 100
119 5.7 76.1 114.1#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 0.924 ug/l
RT: 9.451 min Scan# 1269
Delta R.T. -0.000 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 83 Resp: 17646
Ion Ratio Lower Upper
83 100
55 87.6 58.1 87.1#
98 42.6 38.4 57.6





#48

Methyl methacrylate

Concen: 0.240 ug/l

RT: 9.639 min Scan# 11

Delta R.T. 0.088 min

Lab File: VN070963.D

Acq: 16 Feb 2022 17:27

Instrument :

MSVOA_N

ClientSampleId :

GES-2R

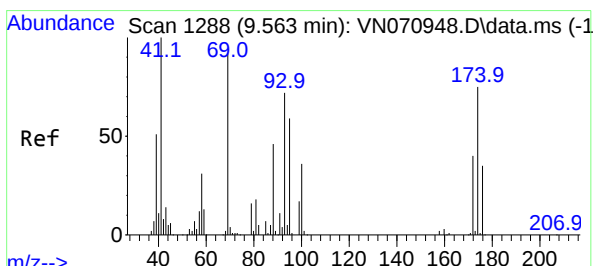
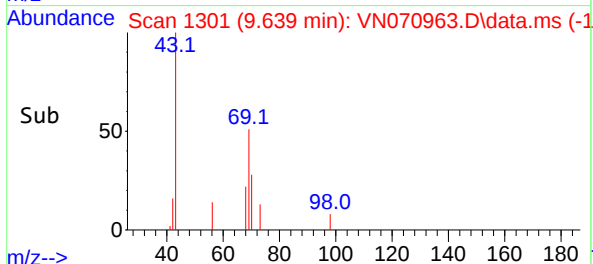
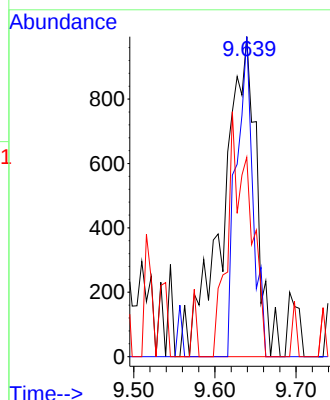
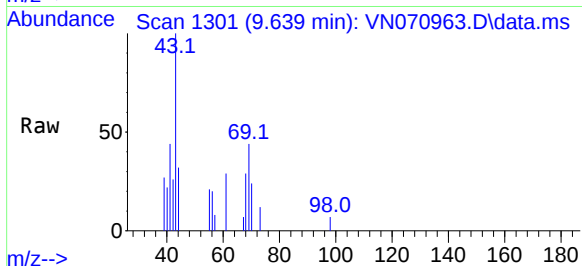
Tgt Ion: 41 Resp: 2853

Ion Ratio Lower Upper

41 100

69 49.5 72.4 108.6#

39 50.4 58.4 87.6#



#49

1,4-Dioxane

Concen: 0.327 ug/l

RT: 9.574 min Scan# 1290

Delta R.T. 0.012 min

Lab File: VN070963.D

Acq: 16 Feb 2022 17:27

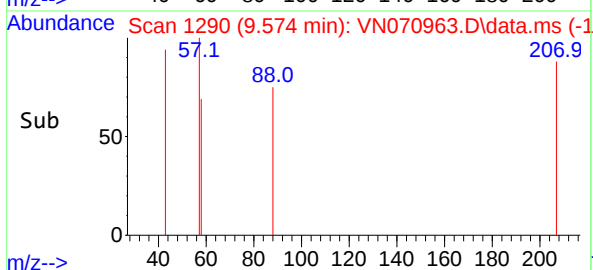
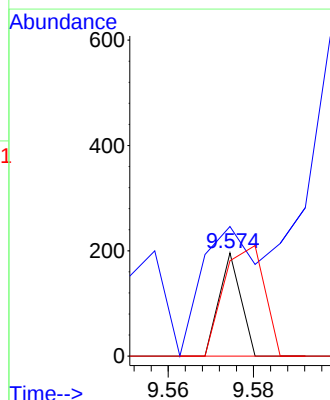
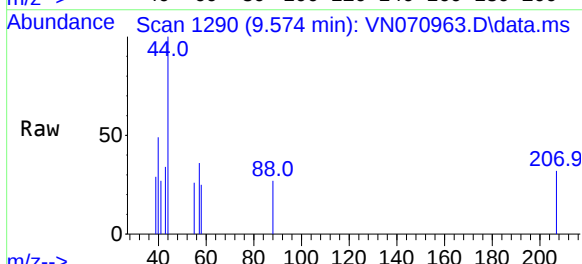
Tgt Ion: 88 Resp: 69

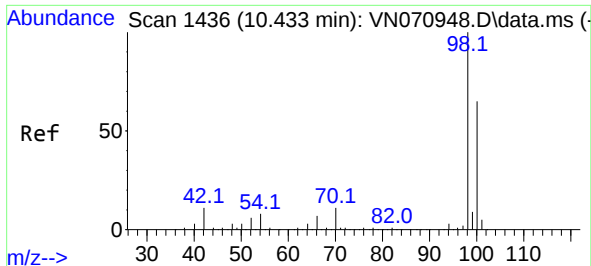
Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 200.0 50.6 75.8#

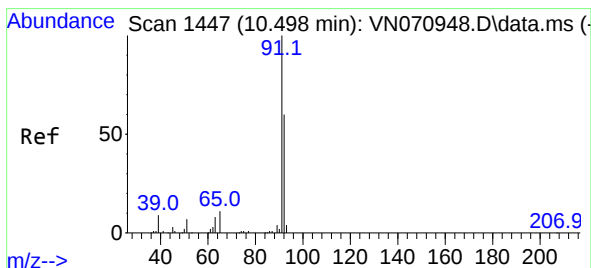
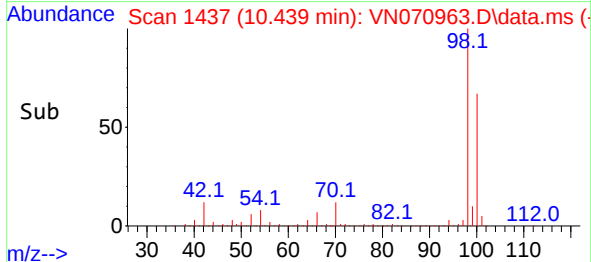
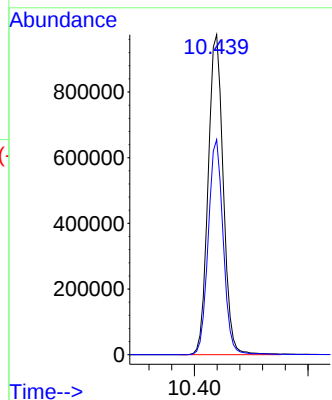
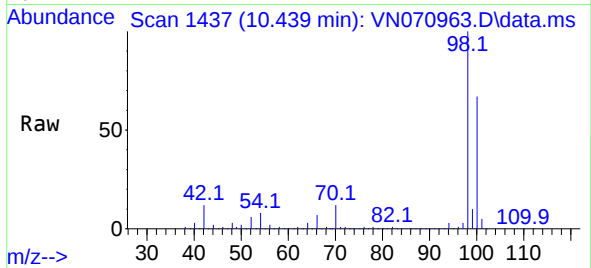




#50
Toluene-d8
Concen: 49.374 ug/l
RT: 10.439 min Scan# 1436
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

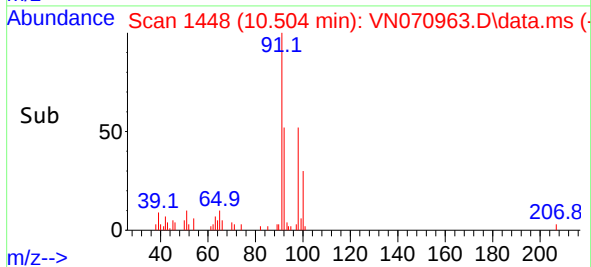
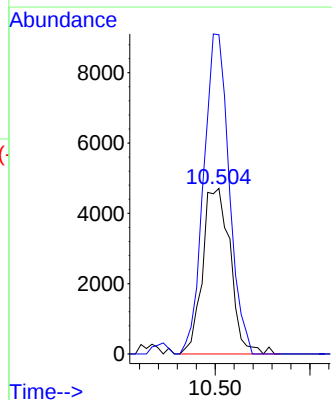
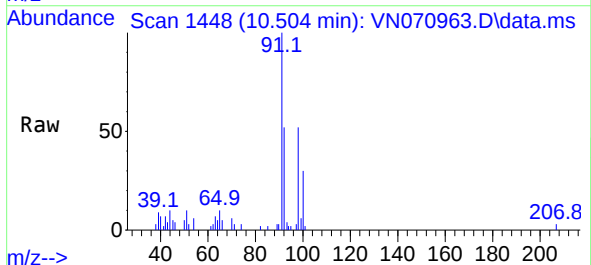
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

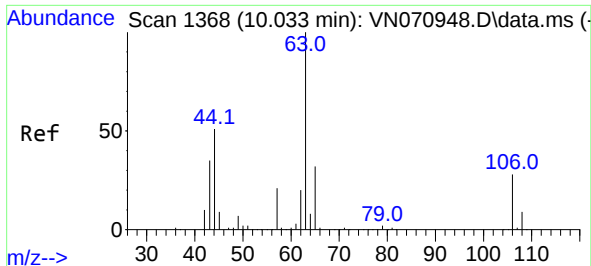
Tgt Ion: 98 Resp: 1795494
Ion Ratio Lower Upper
98 100
100 66.3 50.4 75.6



#52
Toluene
Concen: 0.347 ug/l
RT: 10.504 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 92 Resp: 9575
Ion Ratio Lower Upper
92 100
91 177.8 142.0 213.0

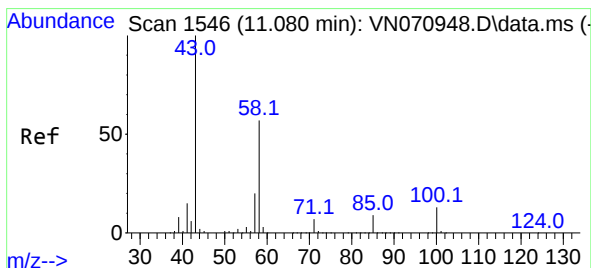
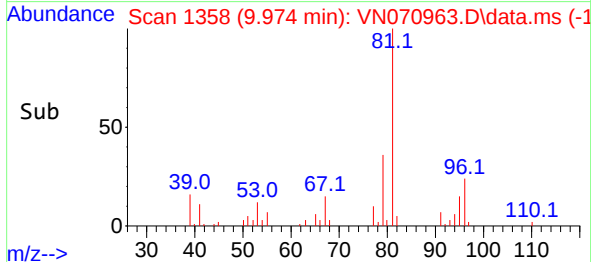
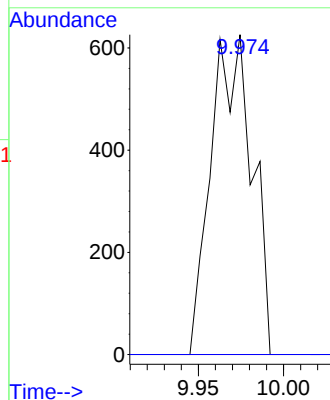
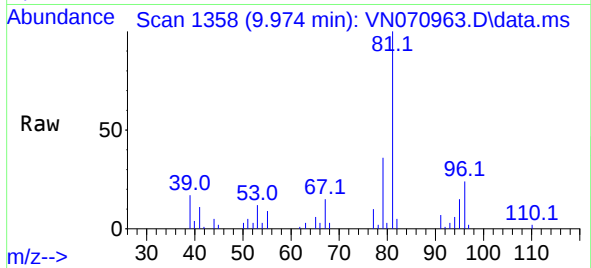




#58
2-Chloroethyl Vinyl ether
Concen: 32.054 ug/l
RT: 9.974 min Scan# 11
Delta R.T. -0.059 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

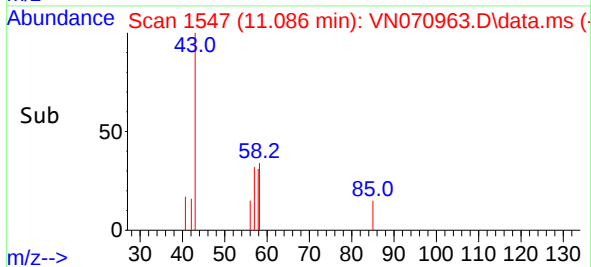
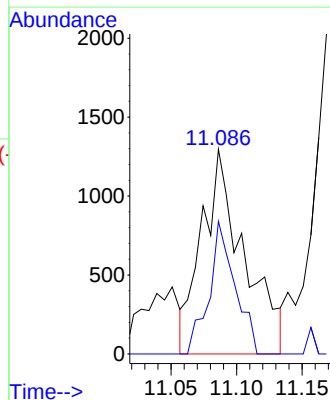
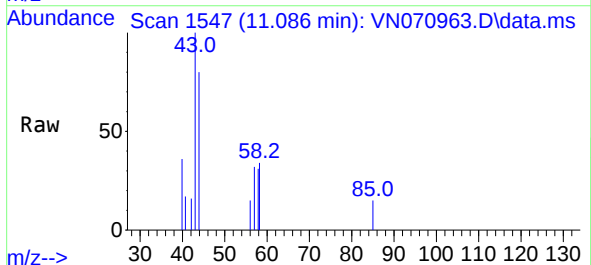
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

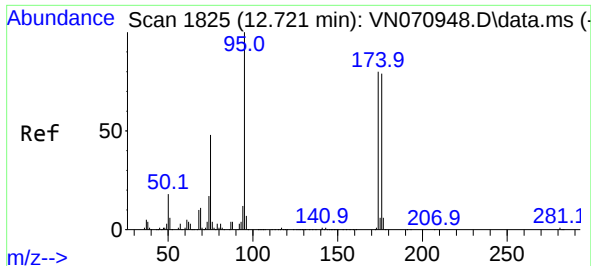
Tgt Ion: 63 Resp: 1047
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 0.277 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 43 Resp: 2903
Ion Ratio Lower Upper
43 100
58 39.7 26.9 80.7



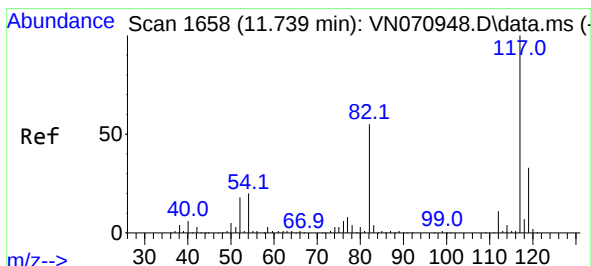
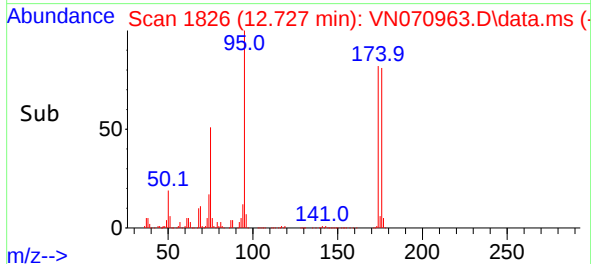
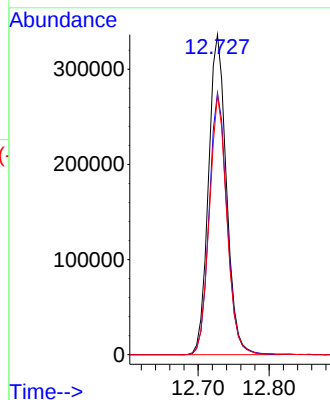
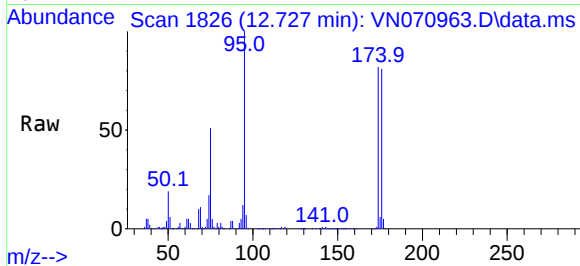


#62
4-Bromofluorobenzene
Concen: 45.408 ug/l
RT: 12.727 min Scan# 1825
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Instrument :
MSVOA_N
ClientSampleId :
GES-2R

Tgt Ion: 95 Resp: 590233

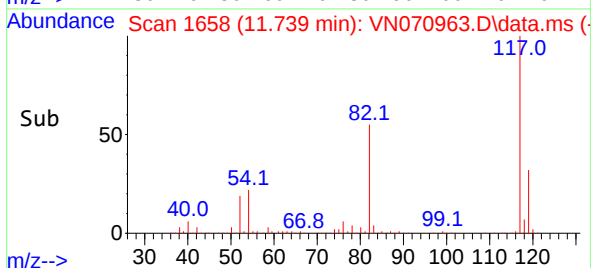
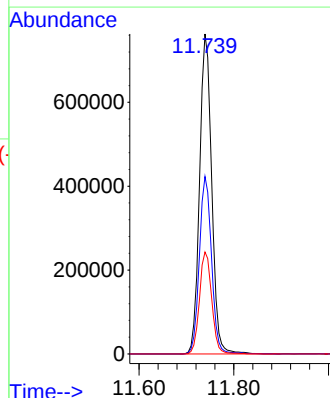
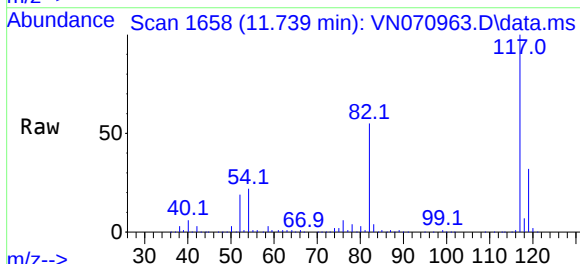
Ion	Ratio	Lower	Upper
95	100		
174	81.5	0.0	187.2
176	79.4	0.0	181.4

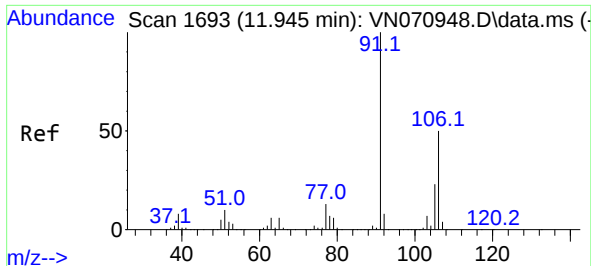


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 117 Resp: 1356824

Ion	Ratio	Lower	Upper
117	100		
82	55.4	42.4	63.6
119	31.9	25.4	38.2

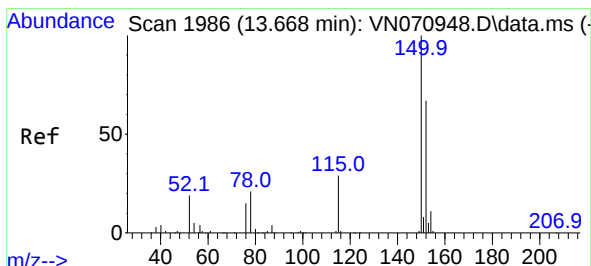
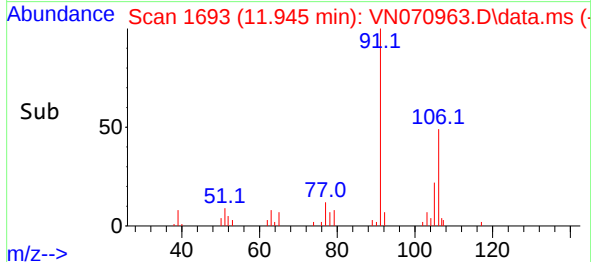
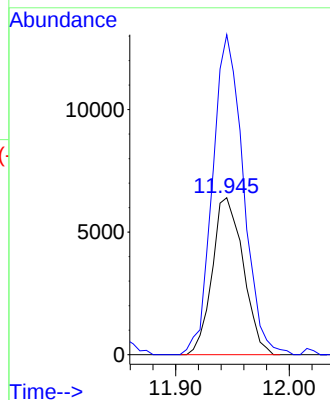
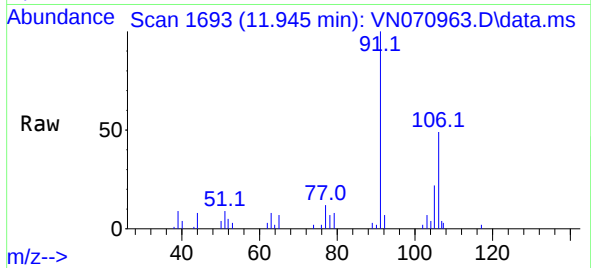




#68
m/p-Xylenes
Concen: 0.613 ug/l
RT: 11.945 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

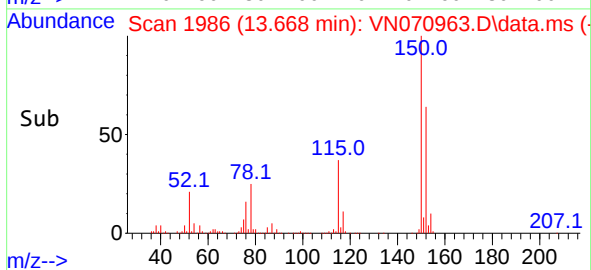
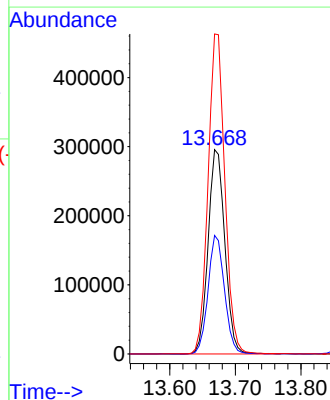
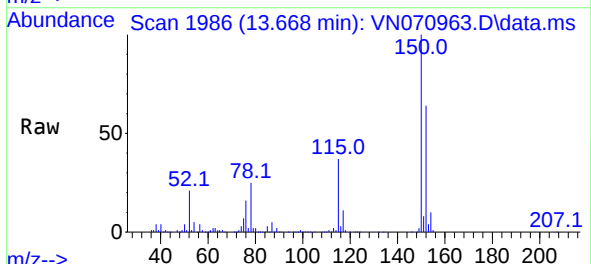
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

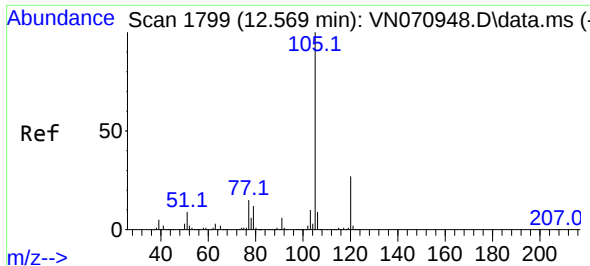
Tgt Ion:106 Resp: 12119
Ion Ratio Lower Upper
106 100
91 202.9 160.6 240.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. -0.000 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion:152 Resp: 526143
Ion Ratio Lower Upper
152 100
115 56.9 27.5 82.5
150 156.8 0.0 344.4

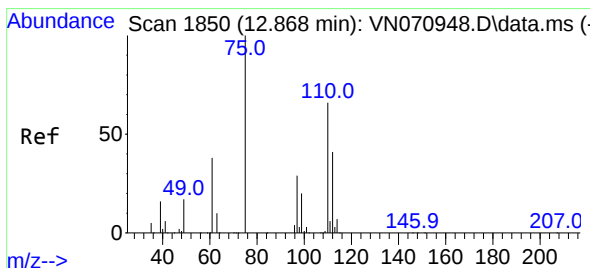
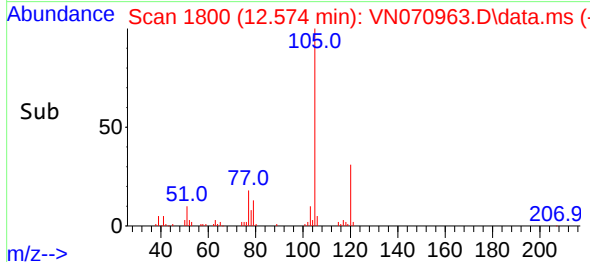
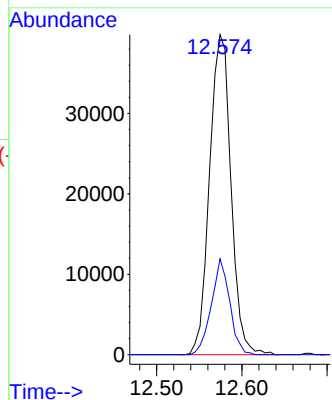
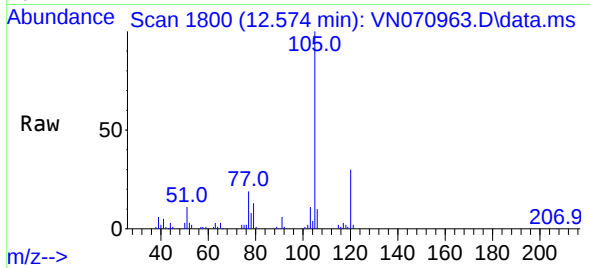




#73
Isopropylbenzene
Concen: 1.642 ug/l
RT: 12.574 min Scan# 1800
Delta R.T. 0.006 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

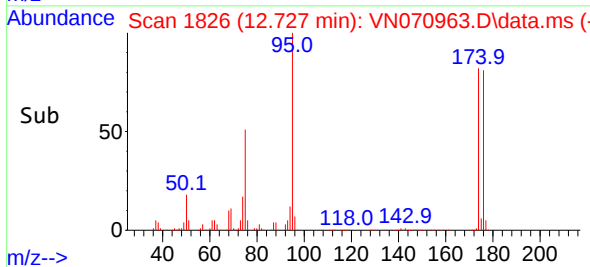
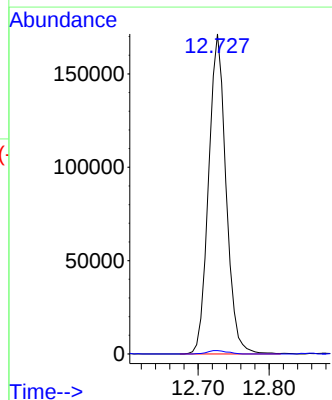
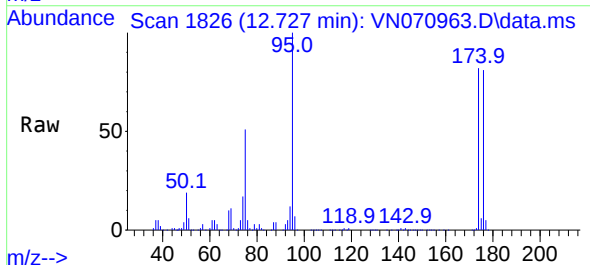
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

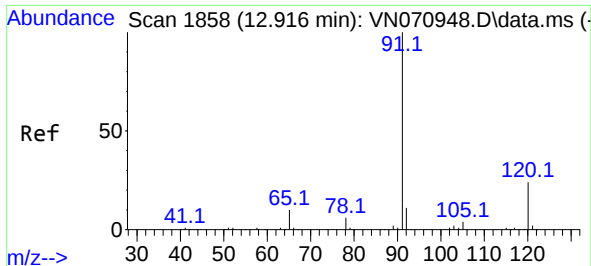
Tgt Ion:105 Resp: 69521
Ion Ratio Lower Upper
105 100
120 25.7 13.4 40.1



#76
1,2,3-Trichloropropane
Concen: 23.631 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 75 Resp: 292742
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#

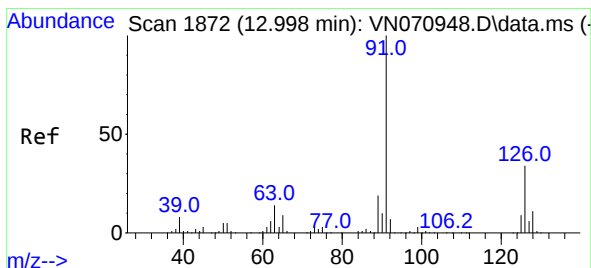
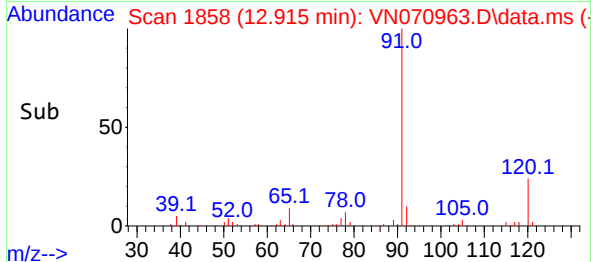
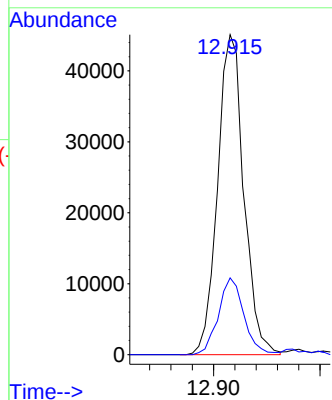
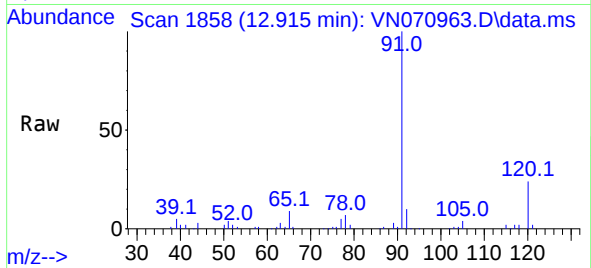




#78
n-propylbenzene
Concen: 1.617 ug/l
RT: 12.915 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

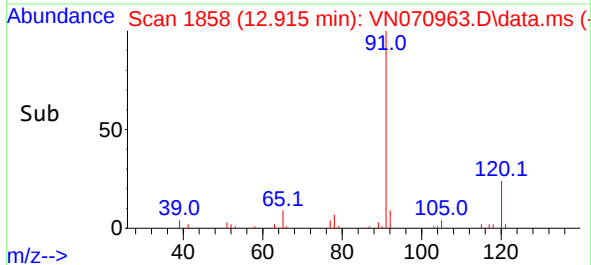
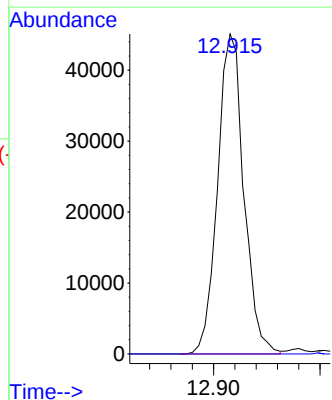
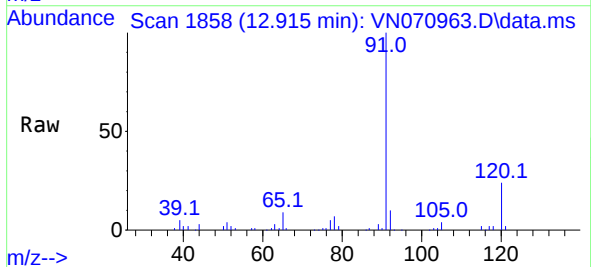
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

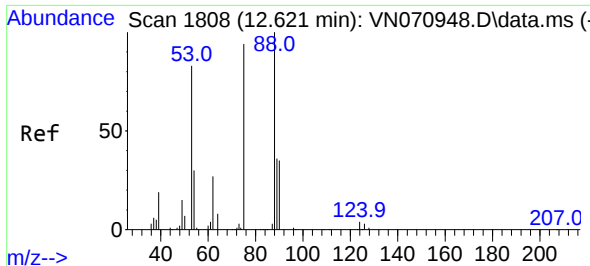
Tgt Ion: 91 Resp: 76927
Ion Ratio Lower Upper
91 100
120 23.3 11.9 35.9



#79
2-Chlorotoluene
Concen: 2.662 ug/l
RT: 12.915 min Scan# 1858
Delta R.T. -0.082 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 91 Resp: 76927
Ion Ratio Lower Upper
91 100
126 0.0 18.3 54.8#

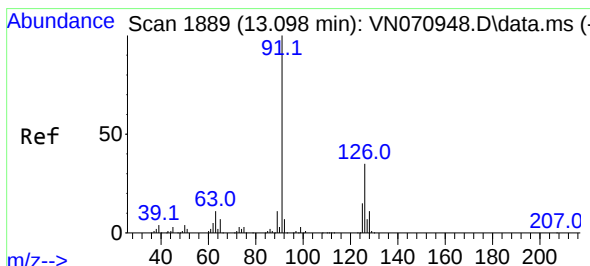
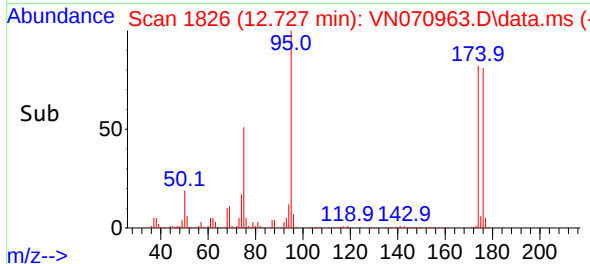
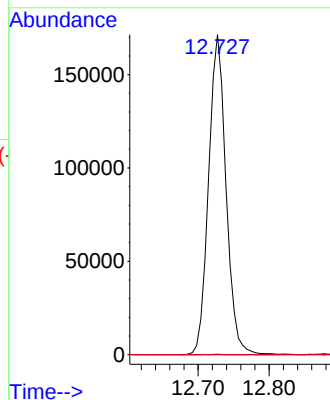
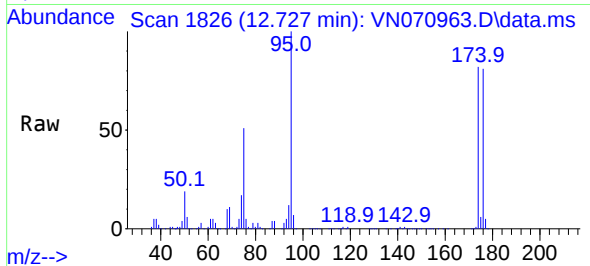




#81
trans-1,4-Dichloro-2-butene
Concen: 76.575 ug/l
RT: 12.727 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

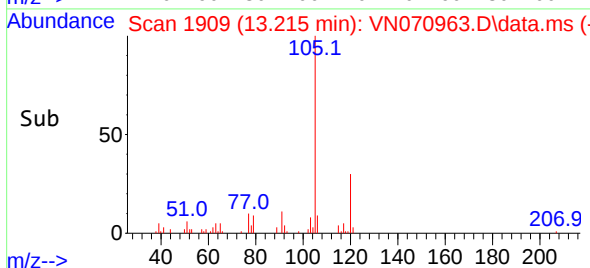
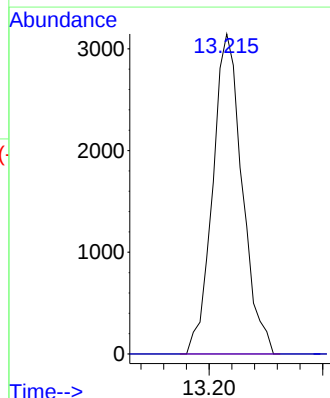
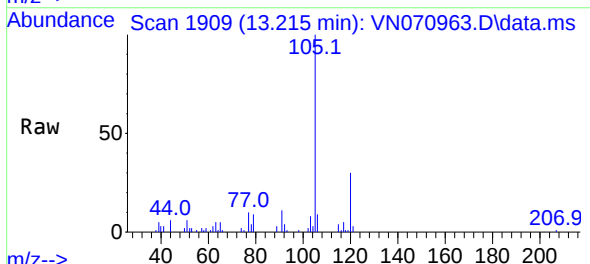
Instrument :
MSVOA_N
ClientSampleId :
GES-2R

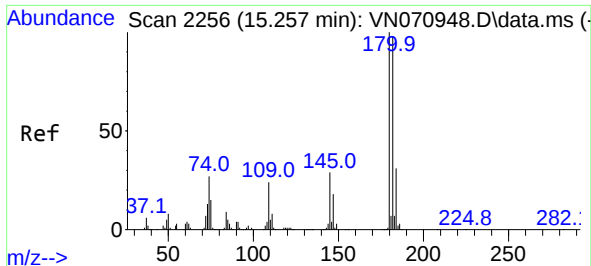
Tgt Ion: 75 Resp: 292742
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#82
4-Chlorotoluene
Concen: 0.202 ug/l
RT: 13.215 min Scan# 1909
Delta R.T. 0.118 min
Lab File: VN070963.D
Acq: 16 Feb 2022 17:27

Tgt Ion: 91 Resp: 5674
Ion Ratio Lower Upper
91 100
126 0.0 18.2 54.6#





#93

1,2,4-Trichlorobenzene

Concen: 2.114 ug/l

RT: 15.268 min Scan# 21

Delta R.T. 0.011 min

Lab File: VN070963.D

Acq: 16 Feb 2022 17:27

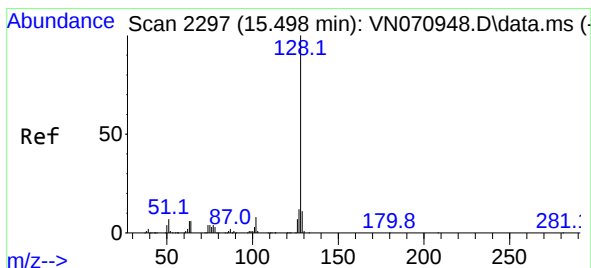
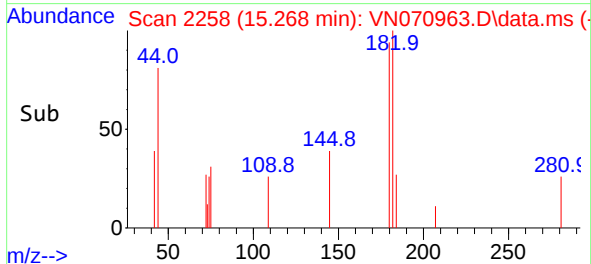
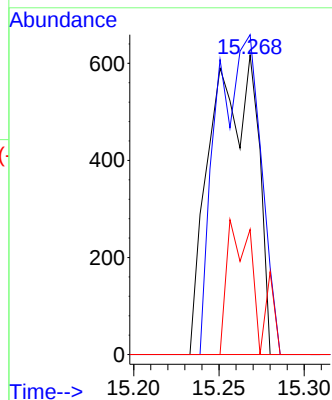
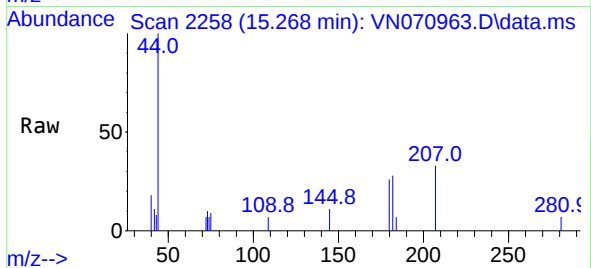
Instrument :

MSVOA_N

ClientSampleId :

GES-2R

Tgt Ion:180	Resp:	1165
Ion Ratio	Lower	Upper
180	100	
182	101.6	48.3 144.9
145	27.2	14.5 43.5



#95

Naphthalene

Concen: 5.869 ug/l

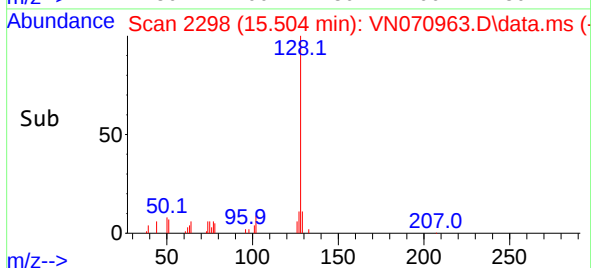
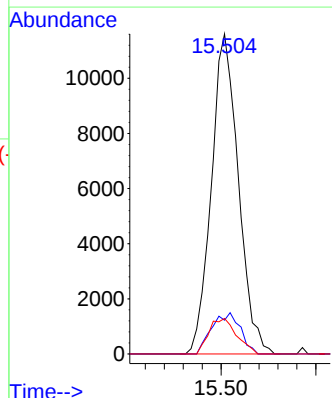
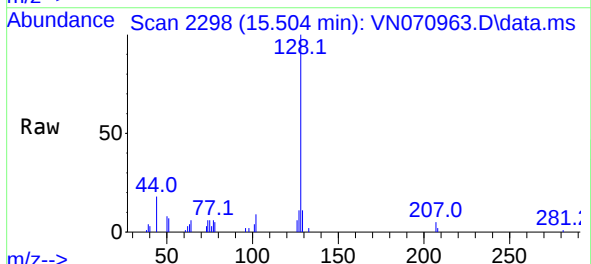
RT: 15.504 min Scan# 2298

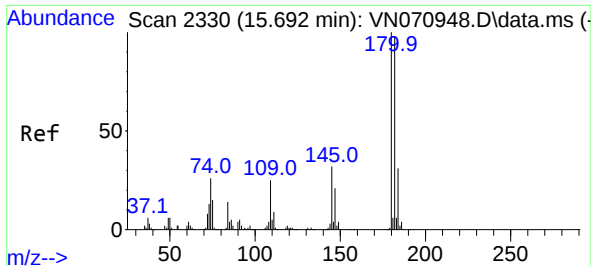
Delta R.T. 0.006 min

Lab File: VN070963.D

Acq: 16 Feb 2022 17:27

Tgt Ion:128	Resp:	22989
Ion Ratio	Lower	Upper
128	100	
127	13.6	10.5 15.7
129	11.4	8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 2.655 ug/l

RT: 15.704 min Scan# 21

Delta R.T. 0.011 min

Lab File: VN070963.D

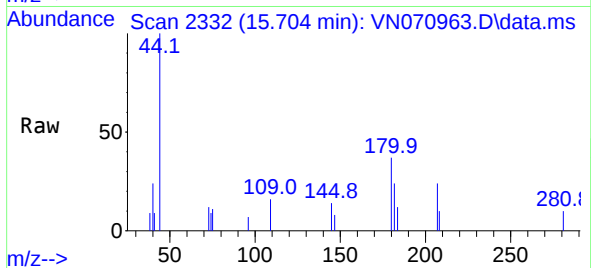
Acq: 16 Feb 2022 17:27

Instrument :

MSVOA_N

ClientSampleId :

GES-2R



Tgt Ion:180 Resp: 1312

Ion Ratio Lower Upper

180 100

182 101.8 47.4 142.2

145 29.3 15.0 45.1

