

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120822\
 Data File : VN075646.D
 Acq On : 08 Dec 2022 14:32
 Operator : JC\MD
 Sample : N5944-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GW-BR-04-100-114-120722

Quant Time: Dec 09 02:07:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112122W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 23 00:18:03 2022
 Response via : Initial Calibration

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

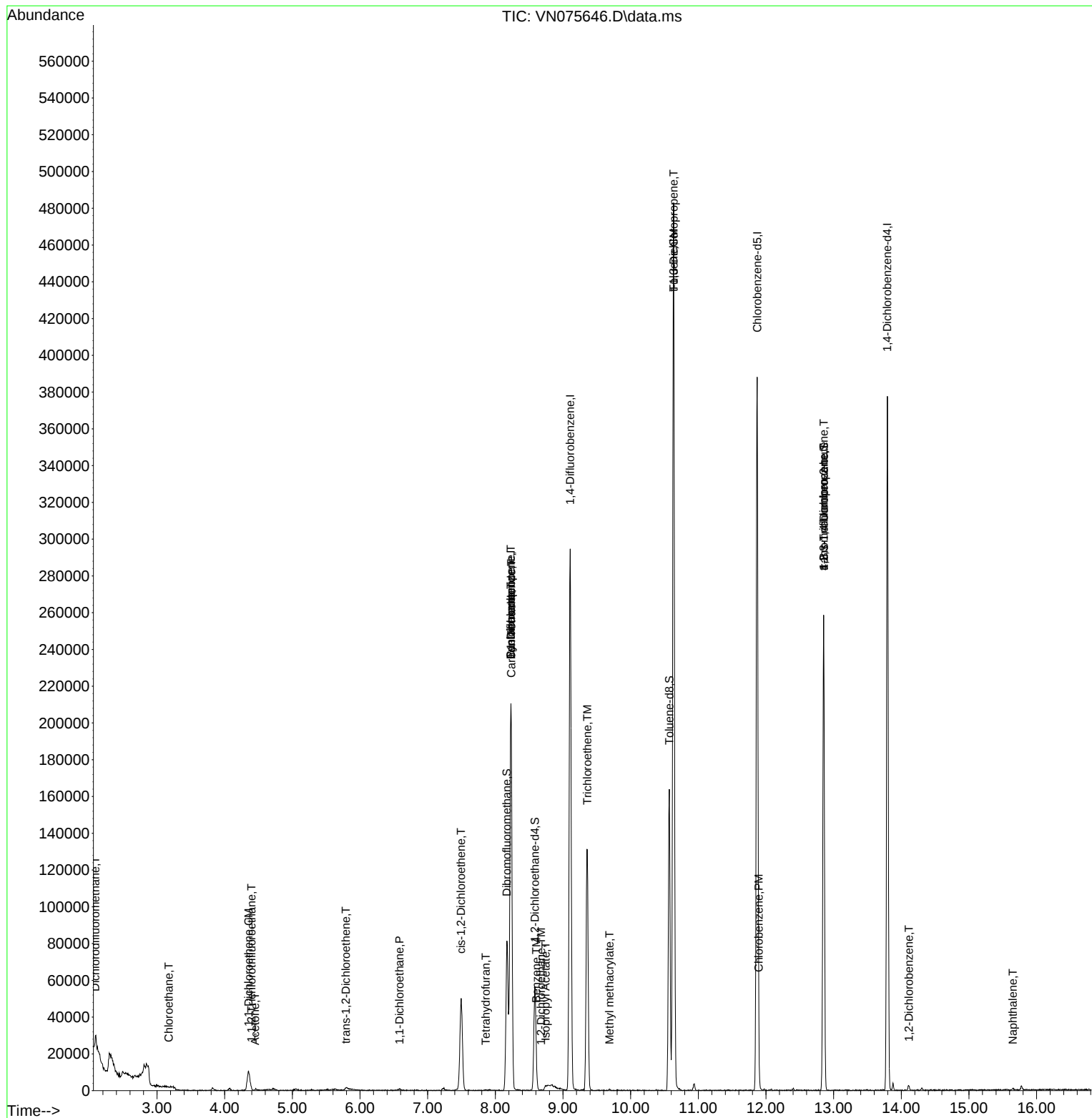
Internal Standards						
1) Pentafluorobenzene	8.229	168	165847	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	276104	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	240482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	107318	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	45865	51.520	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.040%	
35) Dibromofluoromethane	8.171	113	57663	53.164	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.320%	
50) Toluene-d8	10.570	98	117523	48.108	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 96.220%	
62) 4-Bromofluorobenzene	12.853	95	84467	46.845	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 93.700%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.089	85	492	0.388	ug/l	76
6) Chloroethane	3.171	64	308	0.204	ug/l #	45
9) 1,1,2-Trichlorotrifluo...	4.394	101	584	0.372	ug/l #	56
12) 1,1-Dichloroethene	4.353	96	6645	4.327	ug/l #	78
16) Acetone	4.447	43	1701	2.048	ug/l #	43
18) Methyl Acetate	5.030	43	480	Below Cal		92
20) Methylene Chloride	5.271	84	74	Below Cal	#	7
21) trans-1,2-Dichloroethene	5.788	96	906	0.518	ug/l #	51
24) 1,1-Dichloroethane	6.582	63	1543	0.530	ug/l #	82
27) cis-1,2-Dichloroethene	7.494	96	32331	16.336	ug/l	84
29) Tetrahydrofuran	7.859	42	270	0.383	ug/l #	43
31) Cyclohexane	8.229	56	3142	1.111	ug/l #	9
36) 1,1-Dichloropropene	8.229	75	11347	4.797	ug/l #	51
38) Carbon Tetrachloride	8.235	117	15732	6.055	ug/l #	16
40) Benzene	8.606	78	1915	0.264	ug/l #	89
42) 1,2-Dichloroethane	8.676	62	685	0.282	ug/l #	75
43) Isopropyl Acetate	8.741	43	1322	0.387	ug/l #	53
44) Trichloroethene	9.359	130	51179	25.828	ug/l	92
48) Methyl methacrylate	9.688	41	340	0.215	ug/l #	62
52) Toluene	10.635	92	220225	47.190	ug/l	99
53) t-1,3-Dichloropropene	10.635	75	2624	1.034	ug/l #	1
65) Chlorobenzene	11.894	112	1370	0.276	ug/l	94
76) 1,2,3-Trichloropropane	12.853	75	42592	20.991	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	42592	62.106	ug/l #	10
91) 1,2-Dichlorobenzene	14.111	146	1518	0.425	ug/l	88
95) Naphthalene	15.647	128	1357	0.235	ug/l #	69

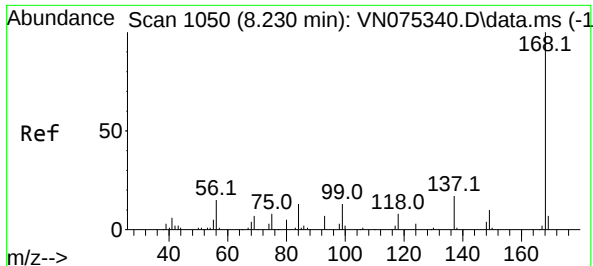
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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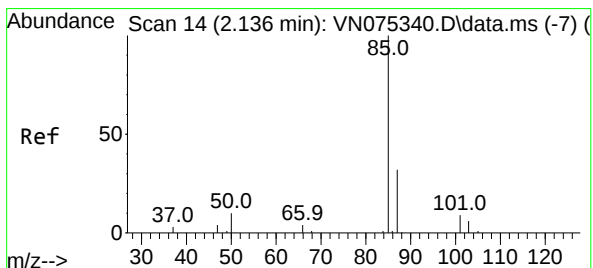
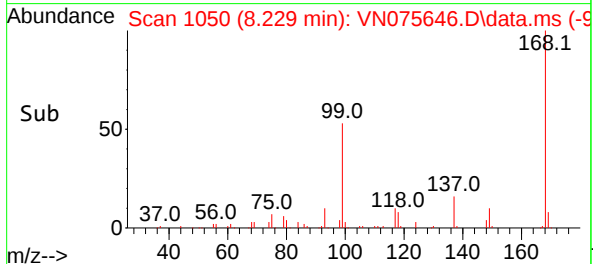
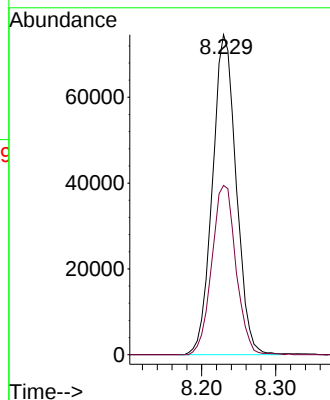
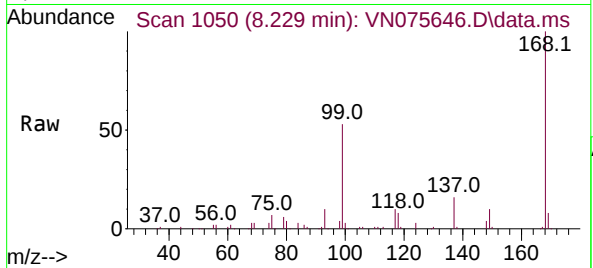




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

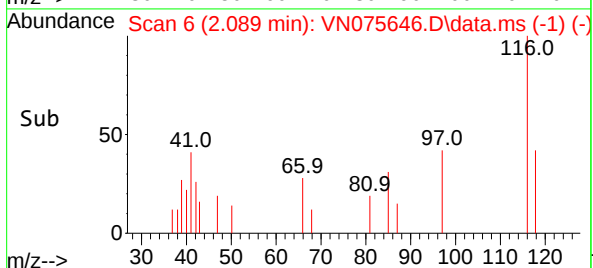
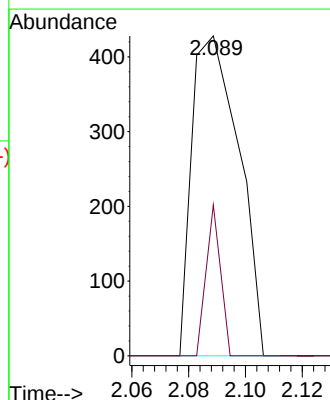
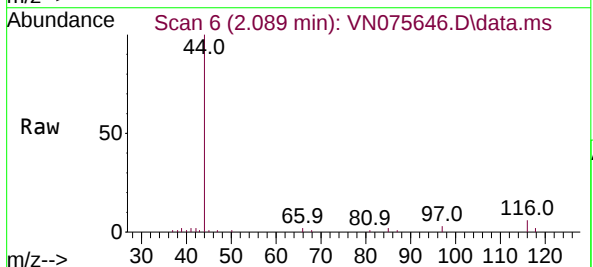
Instrument :
MSVOA_N
ClientSampleId :
GW-BR-04-100-114-120722

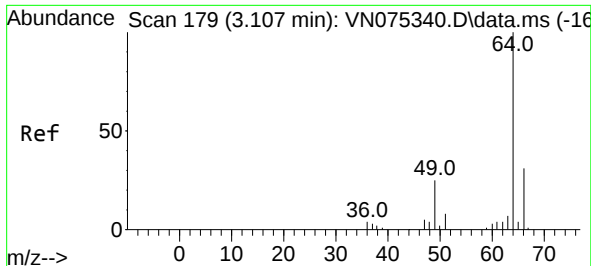
Tgt Ion:168 Resp: 165847
Ion Ratio Lower Upper
168 100
99 52.9 51.6 77.4



#2
Dichlorodifluoromethane
Concen: 0.388 ug/l
RT: 2.089 min Scan# 6
Delta R.T. -0.047 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 85 Resp: 492
Ion Ratio Lower Upper
85 100
87 47.2 16.7 50.0

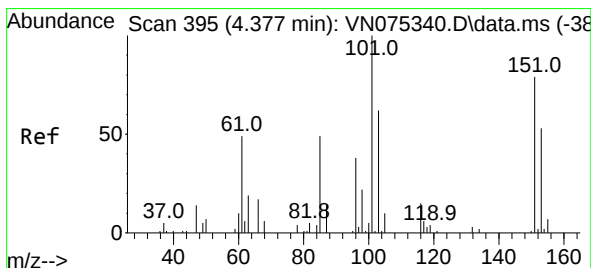
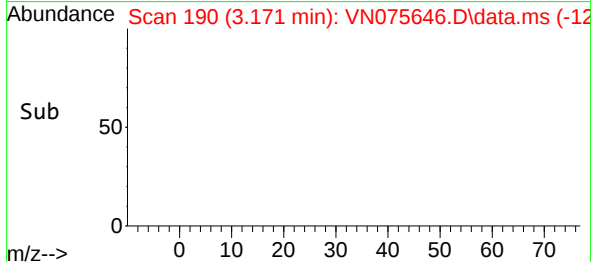
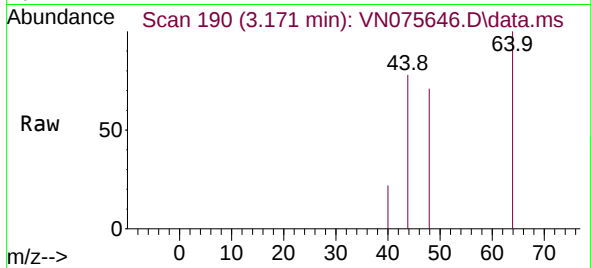




#6
Chloroethane
Concen: 0.204 ug/l
RT: 3.171 min Scan# 190
Delta R.T. 0.064 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

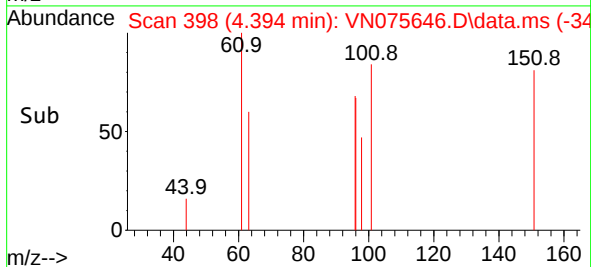
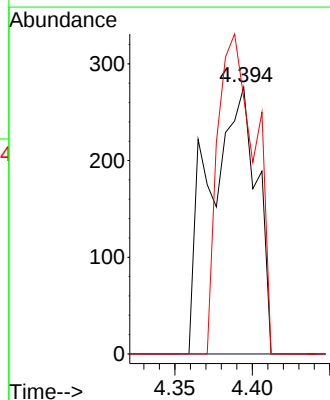
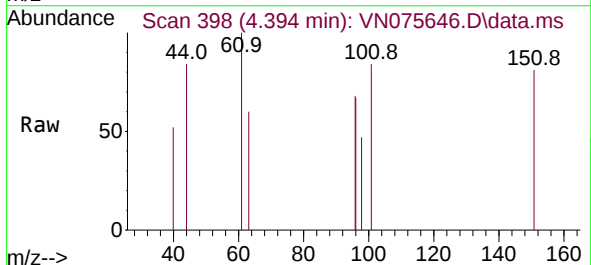
Instrument :
MSVOA_N
ClientSampleId :
GW-BR-04-100-114-120722

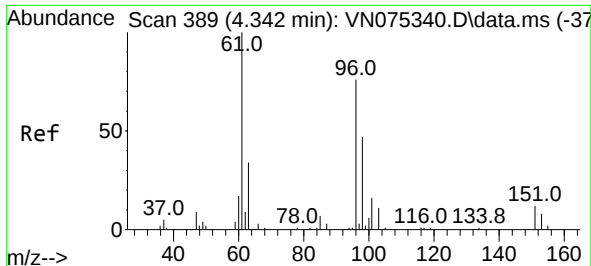
Tgt Ion: 64 Resp: 308
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.372 ug/l
RT: 4.394 min Scan# 398
Delta R.T. 0.017 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 101 Resp: 584
Ion Ratio Lower Upper
101 100
85 0.0 37.6 56.4#
151 94.9 58.3 87.5#





#12

1,1-Dichloroethene

Concen: 4.327 ug/l

RT: 4.353 min Scan# 391

Delta R.T. 0.011 min

Lab File: VN075646.D

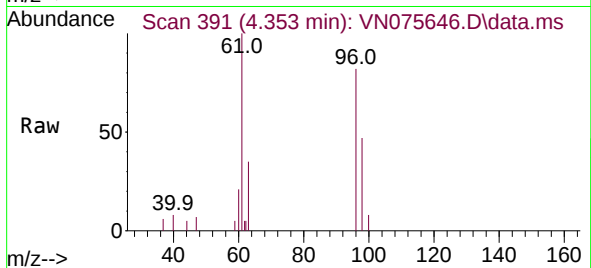
Acq: 08 Dec 2022 14:32

Instrument :

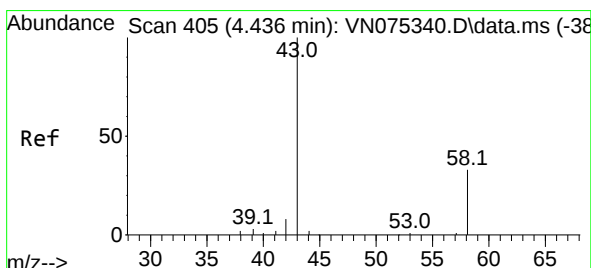
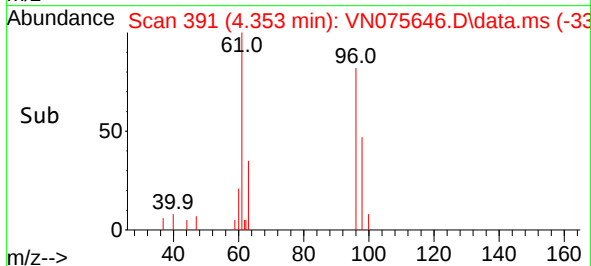
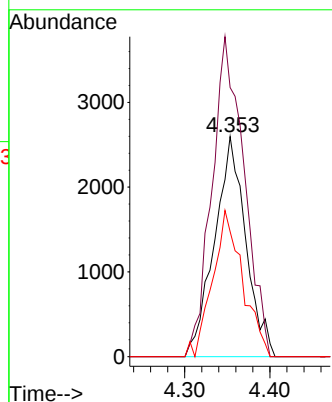
MSVOA_N

ClientSampleId :

GW-BR-04-100-114-120722



Tgt Ion:	96	Resp:	6645
Ion	Ratio	Lower	Upper
96	100		
61	122.3	126.2	189.4#
98	56.9	51.5	77.3



#16

Acetone

Concen: 2.048 ug/l

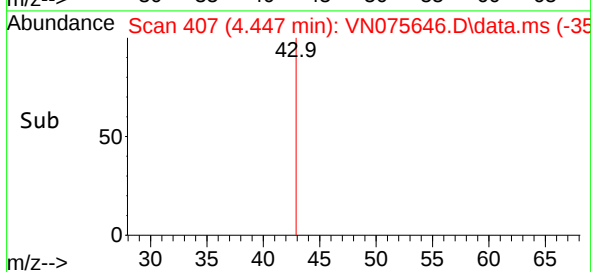
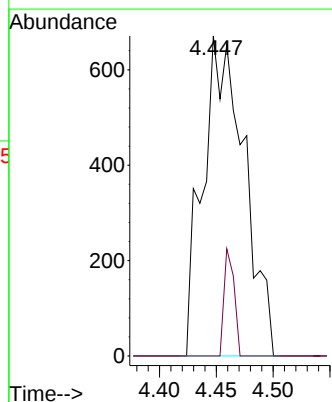
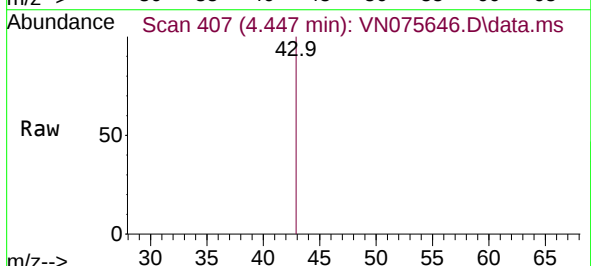
RT: 4.447 min Scan# 407

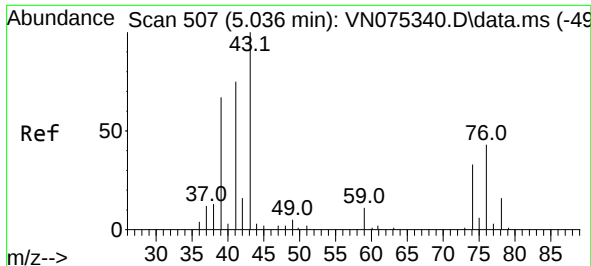
Delta R.T. 0.011 min

Lab File: VN075646.D

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Tgt Ion:	43	Resp:	1701
Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.5	38.3#

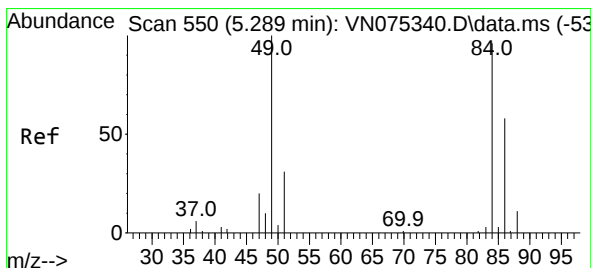
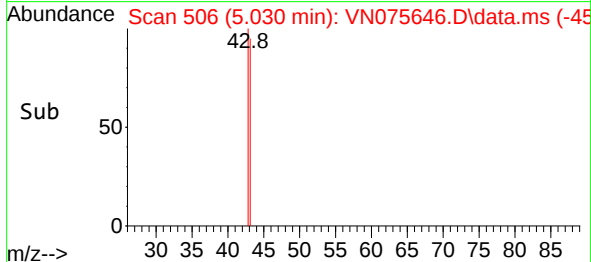
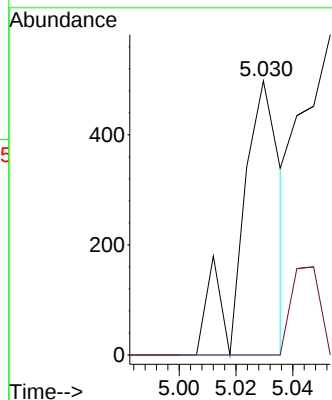
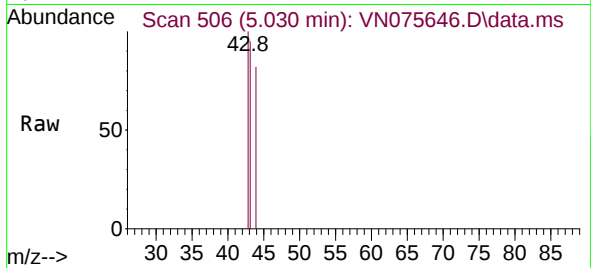




#18
Methyl Acetate
Concen: Below Cal
RT: 5.030 min Scan# 507
Delta R.T. -0.006 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

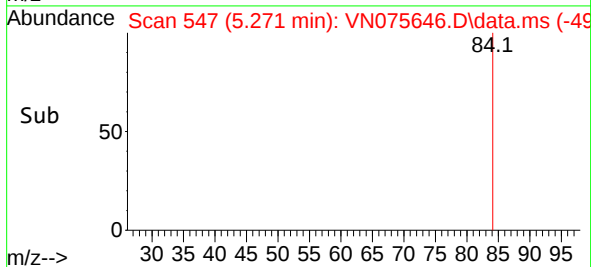
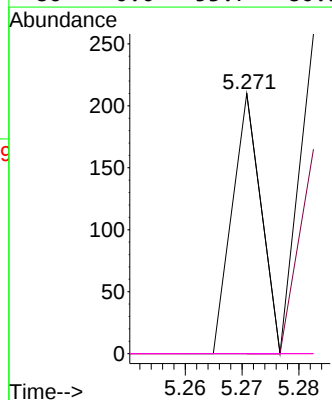
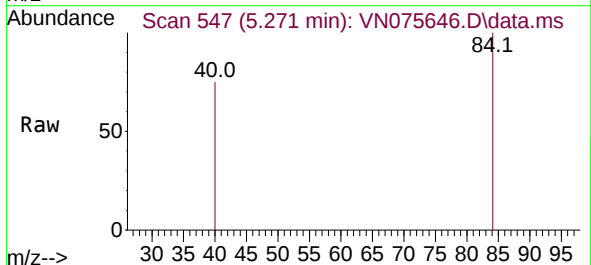
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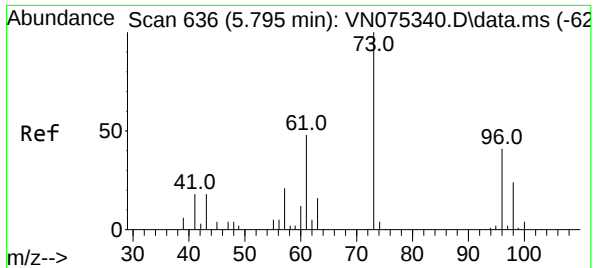
Tgt Ion: 43 Resp: 480
Ion Ratio Lower Upper
43 100
74 23.3 22.0 33.0



#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 547
Delta R.T. -0.018 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 84 Resp: 74
Ion Ratio Lower Upper
84 100
49 0.0 94.9 142.3#
51 0.0 26.8 40.2#
86 0.0 53.7 80.5#

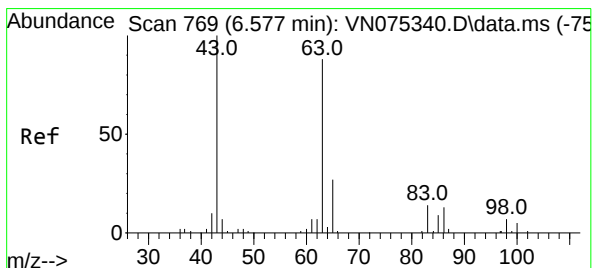
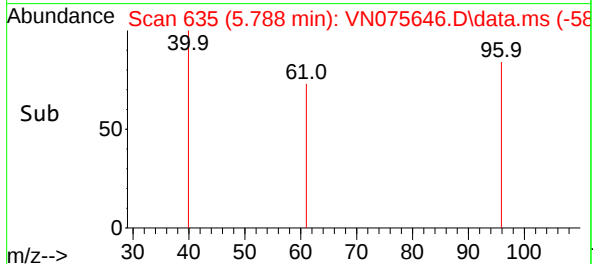
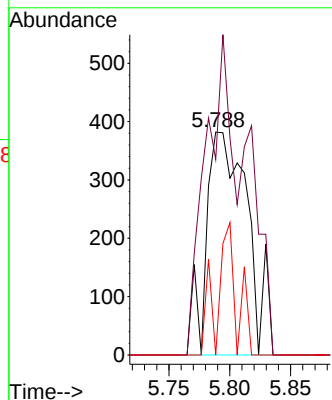
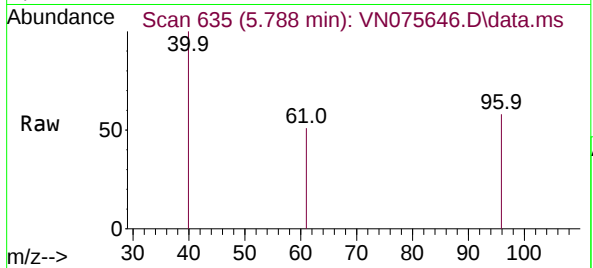




#21
trans-1,2-Dichloroethene
Concen: 0.518 ug/l
RT: 5.788 min Scan# 61
Delta R.T. -0.007 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

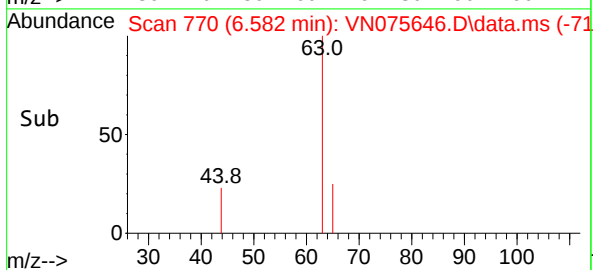
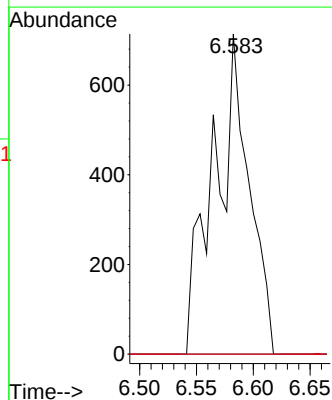
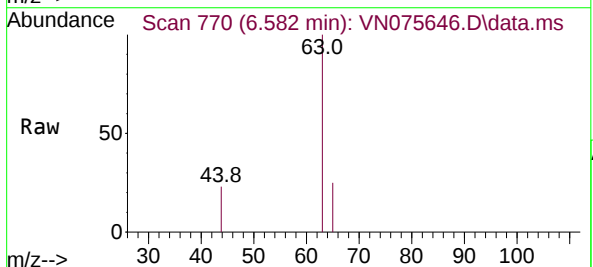
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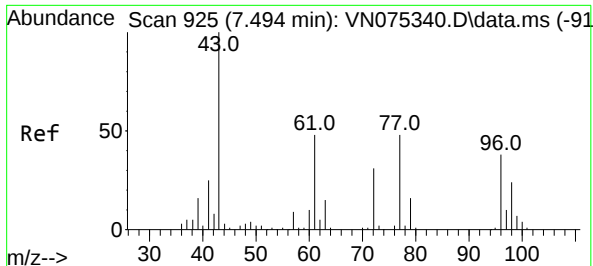
Tgt Ion: 96 Resp: 906
Ion Ratio Lower Upper
96 100
61 87.7 99.9 149.9#
98 0.0 51.5 77.3#



#24
1,1-Dichloroethane
Concen: 0.530 ug/l
RT: 6.582 min Scan# 770
Delta R.T. 0.005 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 63 Resp: 1543
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.8#
100 0.0 2.4 7.2#

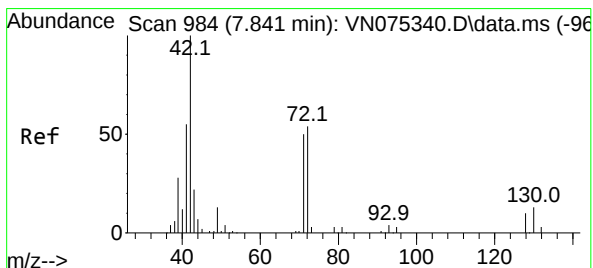
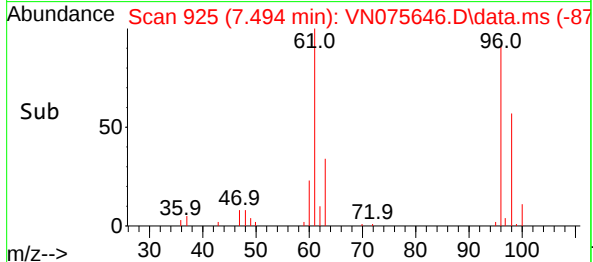
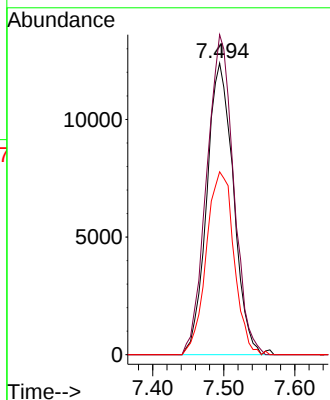
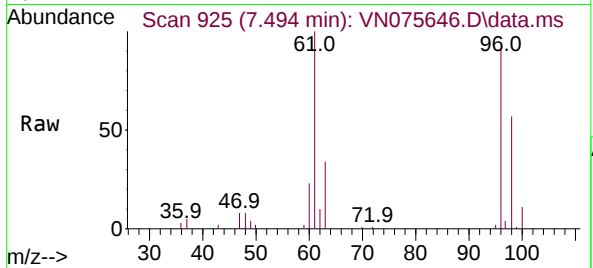




#27
 cis-1,2-Dichloroethene
 Concen: 16.336 ug/l
 RT: 7.494 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VN075646.D
 Acq: 08 Dec 2022 14:32

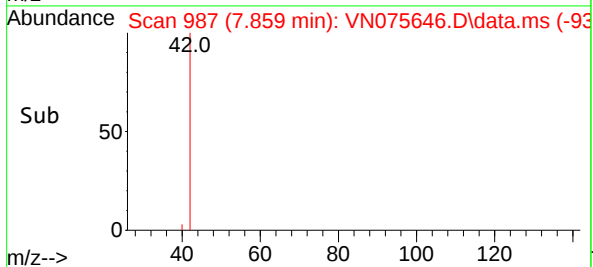
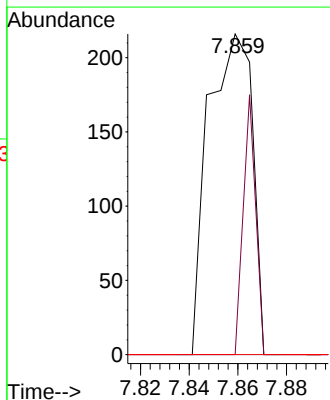
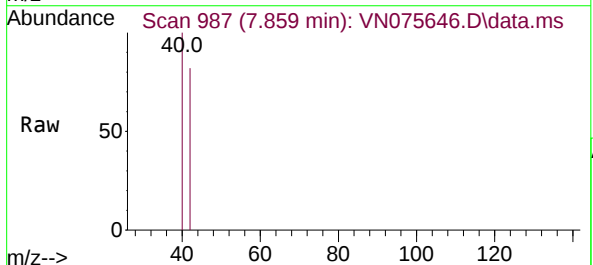
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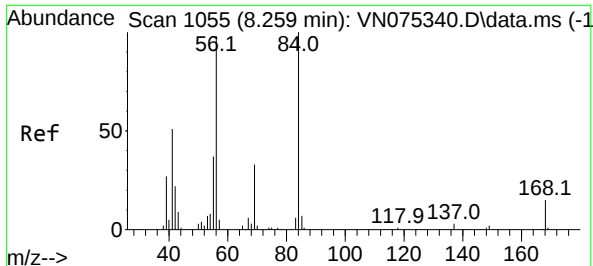
Tgt Ion:	96	Resp:	32331
Ion	Ratio	Lower	Upper
96	100		
61	111.1	0.0	278.8
98	65.1	0.0	128.4



#29
 Tetrahydrofuran
 Concen: 0.383 ug/l
 RT: 7.859 min Scan# 987
 Delta R.T. 0.018 min
 Lab File: VN075646.D
 Acq: 08 Dec 2022 14:32

Tgt Ion:	42	Resp:	270
Ion	Ratio	Lower	Upper
42	100		
72	23.0	43.0	64.6#
71	0.0	39.9	59.9#

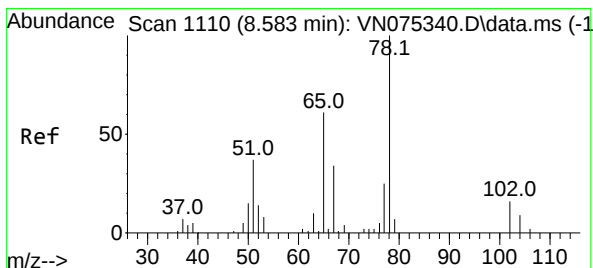
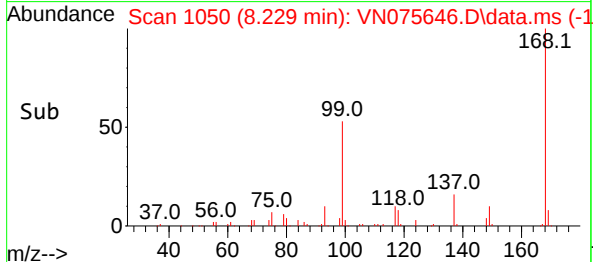
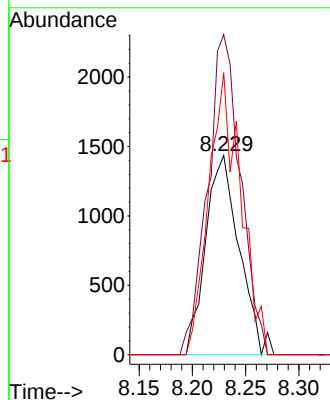
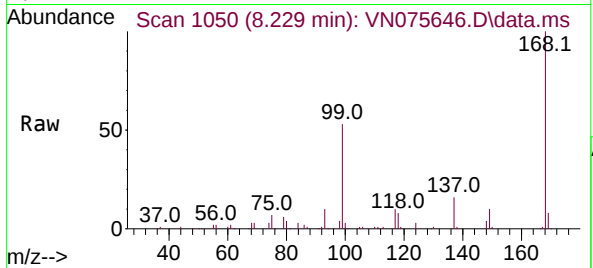




#31
Cyclohexane
Concen: 1.111 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.030 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

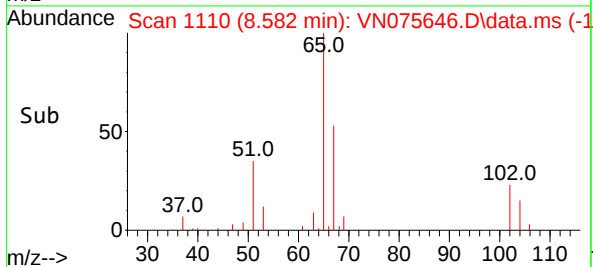
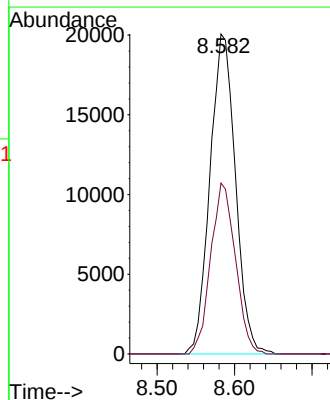
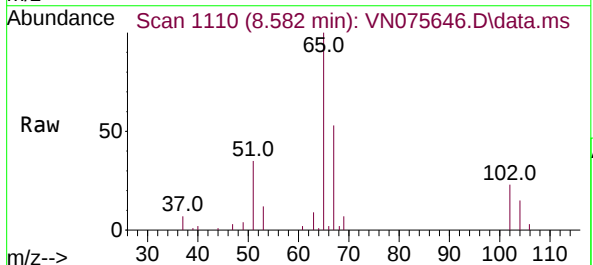
Instrument :
MSVOA_N
ClientSampleId :
GW-BR-04-100-114-120722

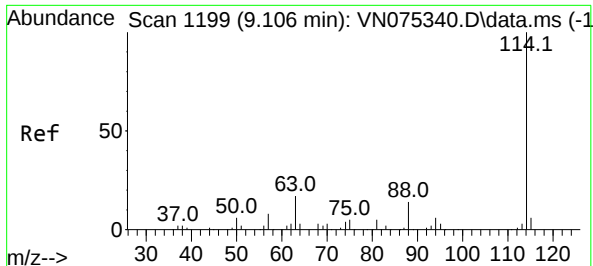
Tgt Ion: 56 Resp: 3142
Ion Ratio Lower Upper
56 100
69 160.6 25.2 37.8#
84 141.6 77.8 116.8#



#33
1,2-Dichloroethane-d4
Concen: 51.520 ug/l
RT: 8.582 min Scan# 1110
Delta R.T. -0.001 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 65 Resp: 45865
Ion Ratio Lower Upper
65 100
67 51.8 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

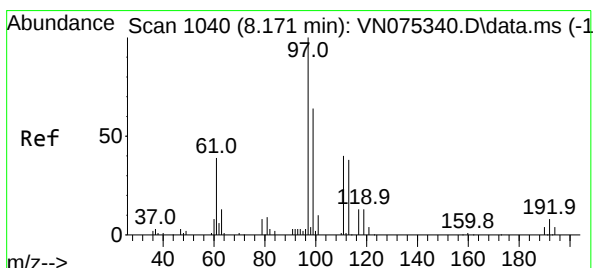
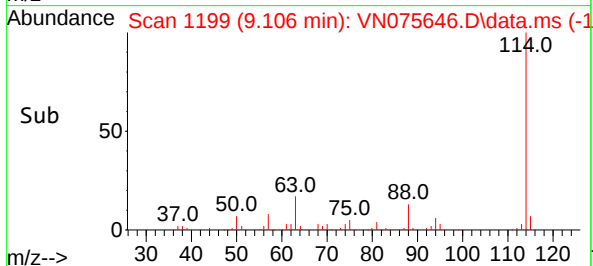
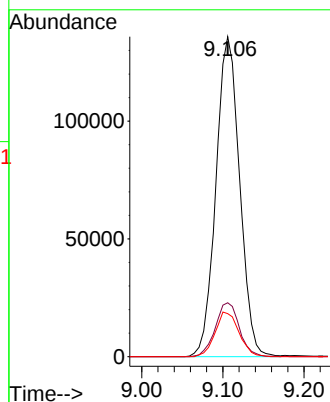
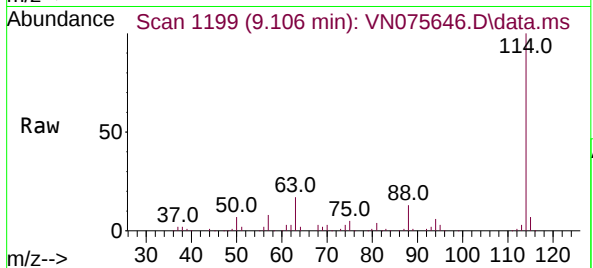
Instrument :

MSVOA_N

ClientSampleId :

GW-BR-04-100-114-120722

Tgt Ion:	114	Resp:	276104
Ion Ratio	Lower	Upper	
114	100		
63	16.9	0.0	39.6
88	13.5	0.0	29.0



#35

Dibromofluoromethane

Concen: 53.164 ug/l

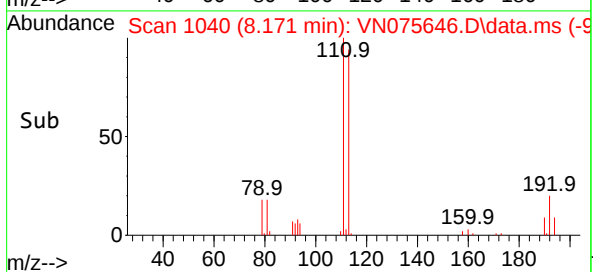
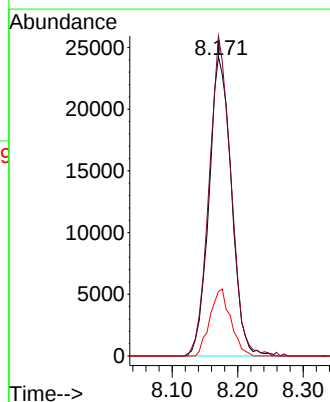
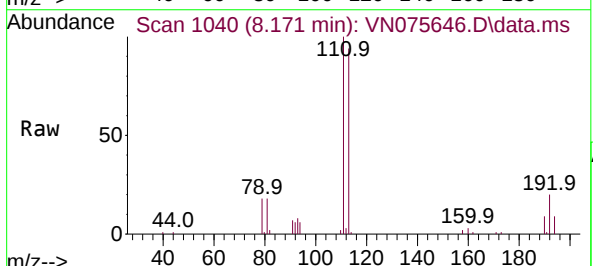
RT: 8.171 min Scan# 1040

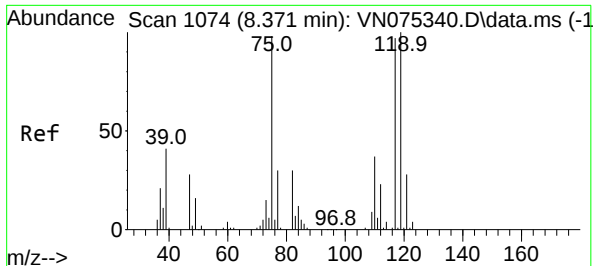
Delta R.T. -0.000 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

Tgt Ion:	113	Resp:	57663
Ion Ratio	Lower	Upper	
113	100		
111	103.8	80.5	120.7
192	20.7	13.2	19.8





#36

1,1-Dichloropropene

Concen: 4.797 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.142 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

Instrument :

MSVOA_N

ClientSampleId :

GW-BR-04-100-114-120722

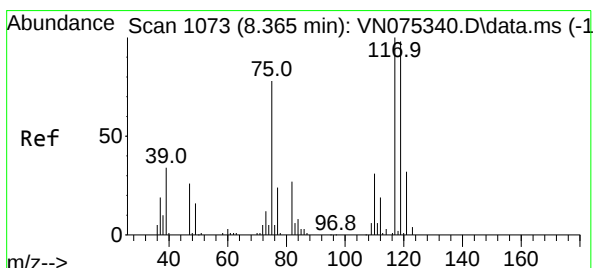
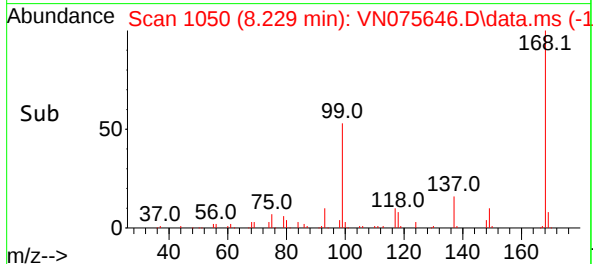
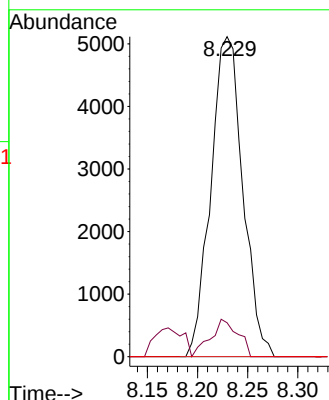
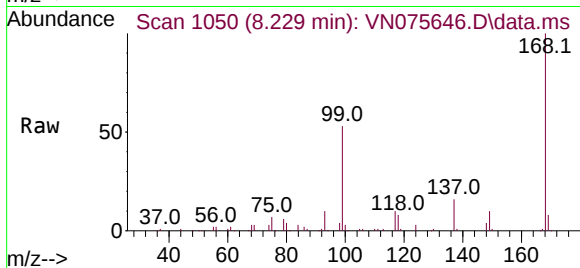
Tgt Ion: 75 Resp: 11347

Ion Ratio Lower Upper

75 100

110 10.0 17.8 53.3#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 6.055 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.130 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

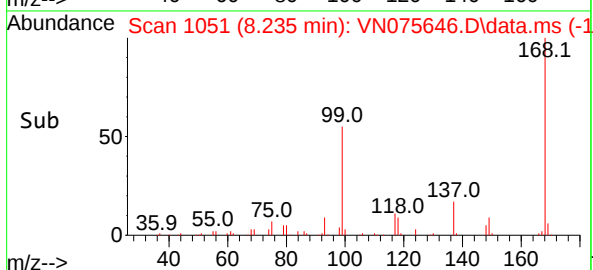
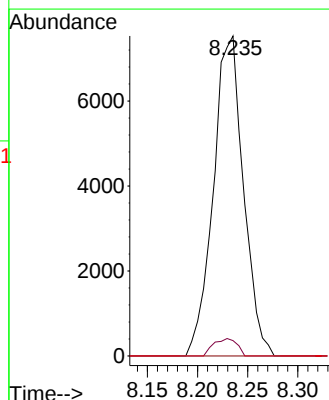
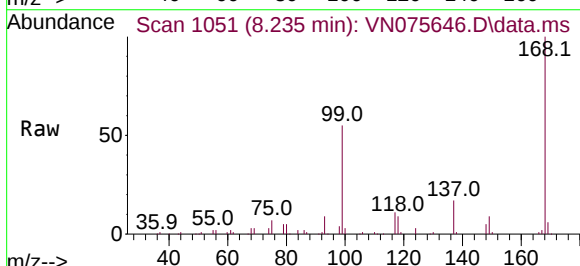
Tgt Ion: 117 Resp: 15732

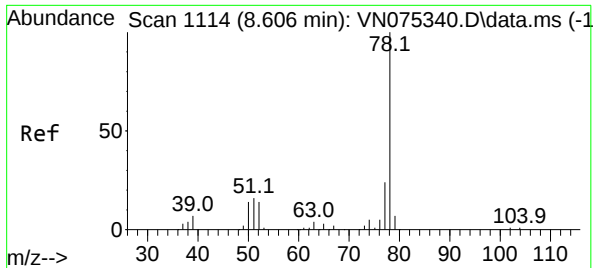
Ion Ratio Lower Upper

117 100

119 4.8 76.7 115.1#

121 0.0 23.9 35.9#

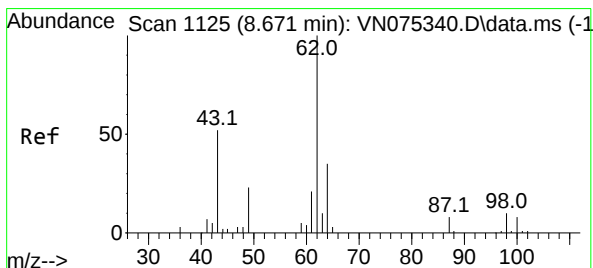
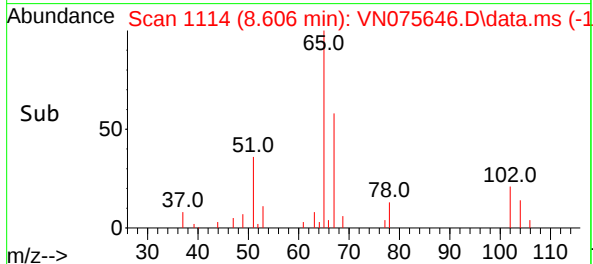
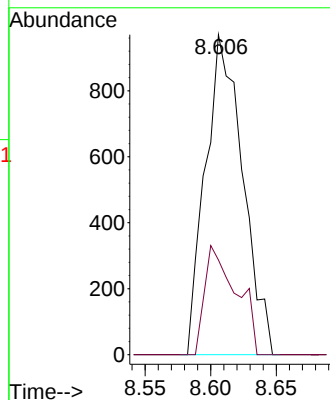
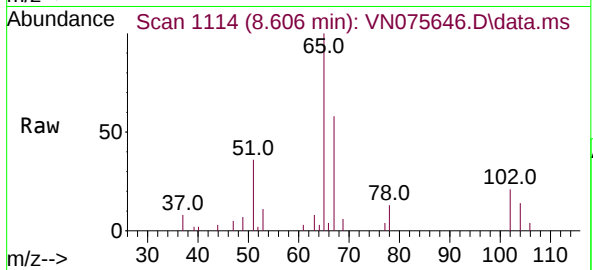




#40
Benzene
Concen: 0.264 ug/l
RT: 8.606 min Scan# 1114
Delta R.T. -0.000 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

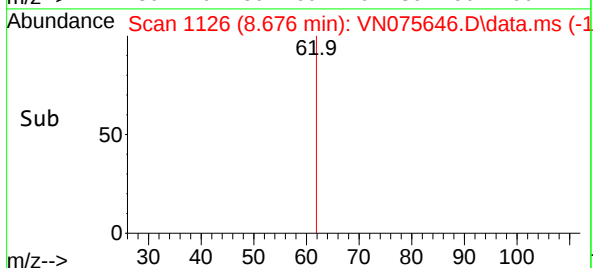
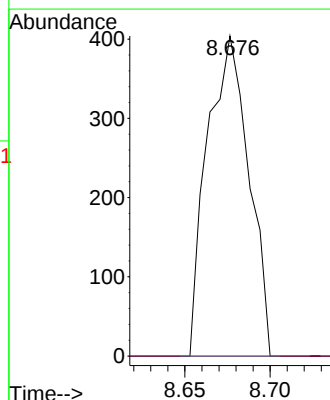
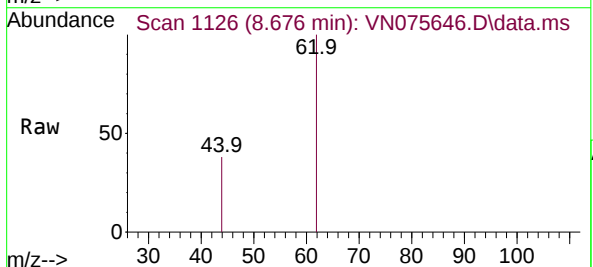
Instrument : MSVOA_N
ClientSampleId : GW-BR-04-100-114-120722

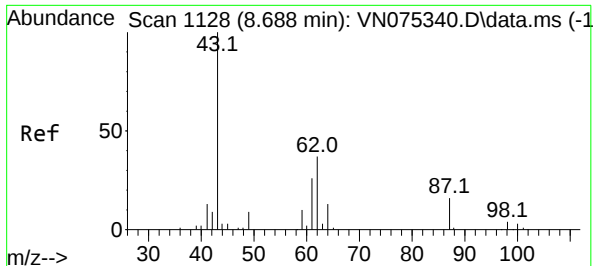
Tgt Ion: 78 Resp: 1915
Ion Ratio Lower Upper
78 100
77 29.6 19.4 29.0#



#42
1,2-Dichloroethane
Concen: 0.282 ug/l
RT: 8.676 min Scan# 1126
Delta R.T. 0.005 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 62 Resp: 685
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 0.387 ug/l

RT: 8.741 min Scan# 1128

Delta R.T. 0.053 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

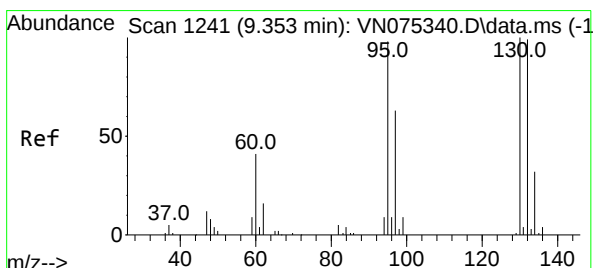
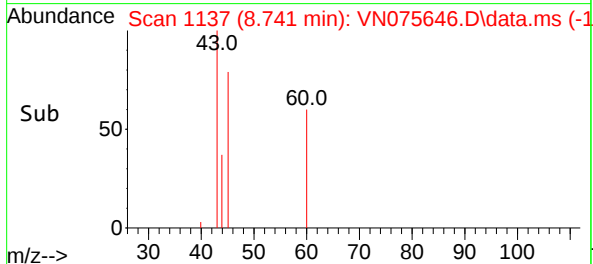
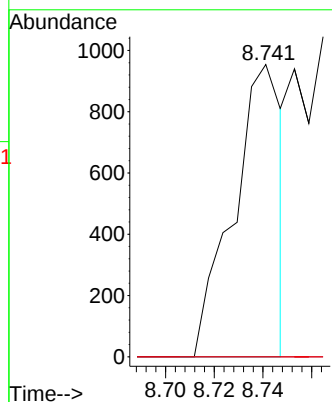
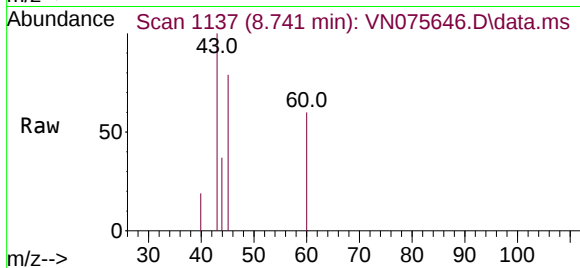
Instrument :

MSVOA_N

ClientSampleId :

GW-BR-04-100-114-120722

Tgt Ion: 43	Resp: 1322
Ion Ratio	Lower Upper
43	100
61	0.0 22.4 33.6#
87	0.0 12.5 18.7#



#44

Trichloroethene

Concen: 25.828 ug/l

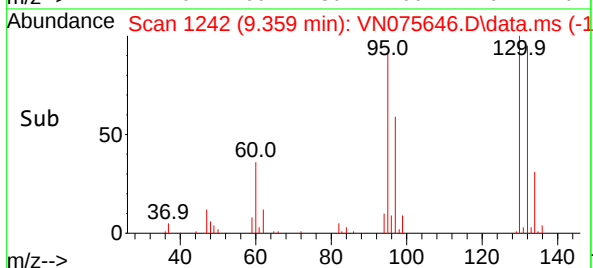
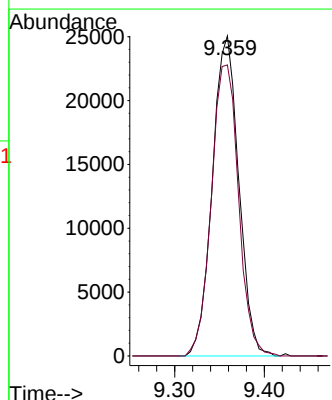
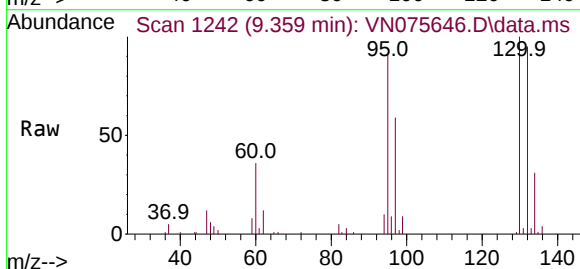
RT: 9.359 min Scan# 1242

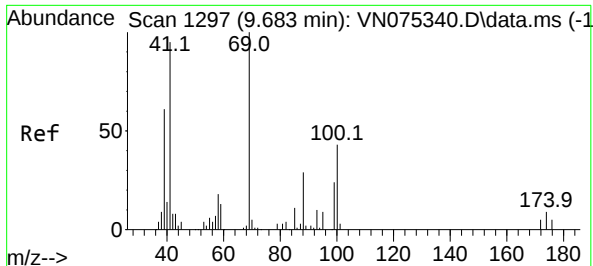
Delta R.T. 0.006 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

Tgt Ion: 130	Resp: 51179
Ion Ratio	Lower Upper
130	100
95	91.0 0.0 198.4





#48

Methyl methacrylate

Concen: 0.215 ug/l

RT: 9.688 min Scan# 1297

Delta R.T. 0.005 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

Instrument :

MSVOA_N

ClientSampleId :

GW-BR-04-100-114-120722

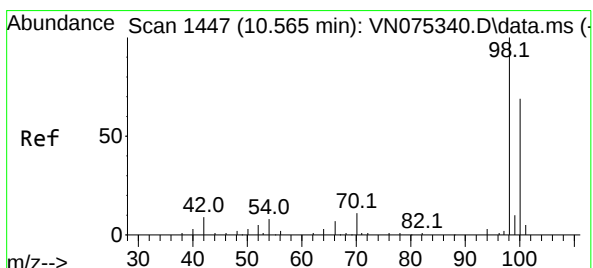
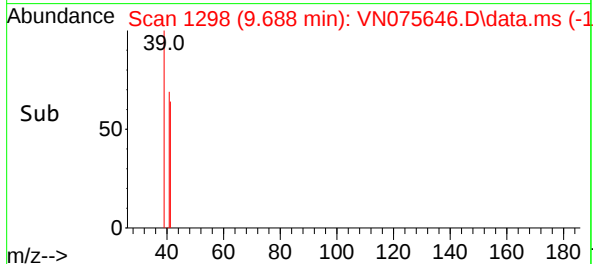
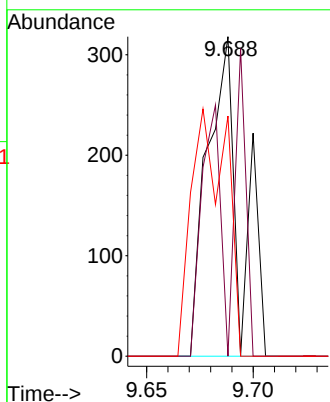
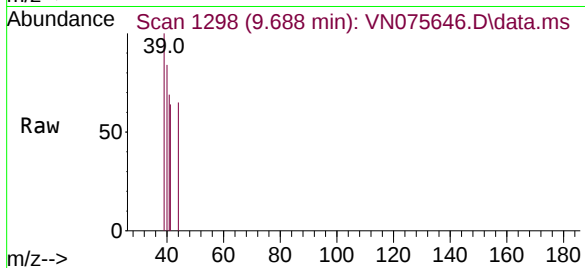
Tgt Ion: 41 Resp: 340

Ion Ratio Lower Upper

41 100

69 45.6 80.2 120.2#

39 82.9 56.2 84.2



#50

Toluene-d8

Concen: 48.108 ug/l

RT: 10.570 min Scan# 1448

Delta R.T. 0.005 min

Lab File: VN075646.D

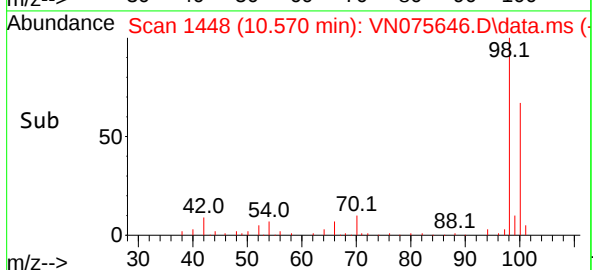
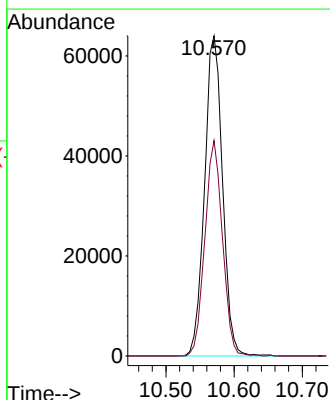
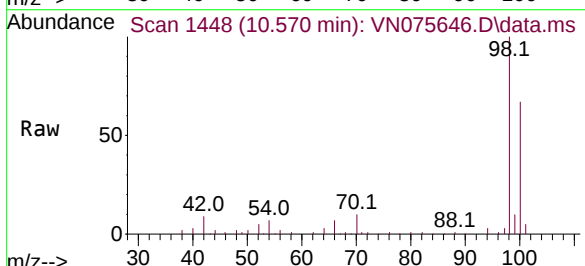
Acq: 08 Dec 2022 14:32

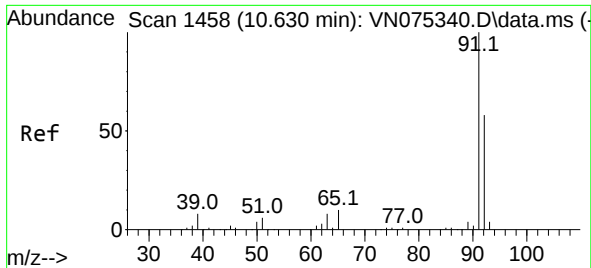
Tgt Ion: 98 Resp: 117523

Ion Ratio Lower Upper

98 100

100 65.8 53.0 79.6

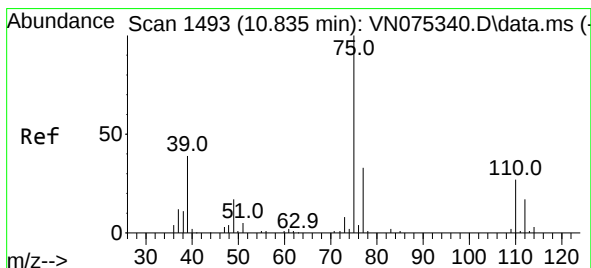
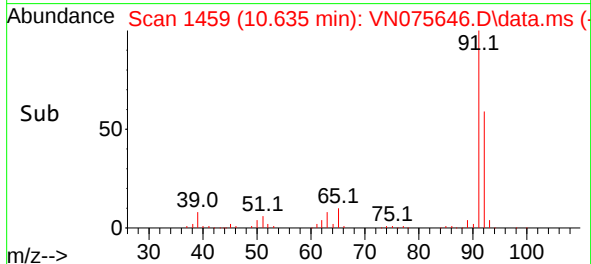
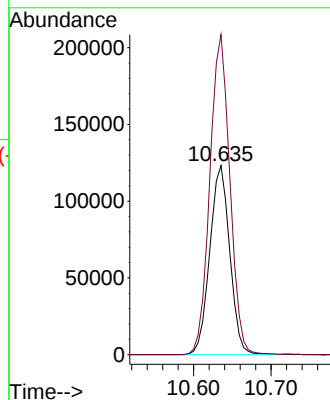
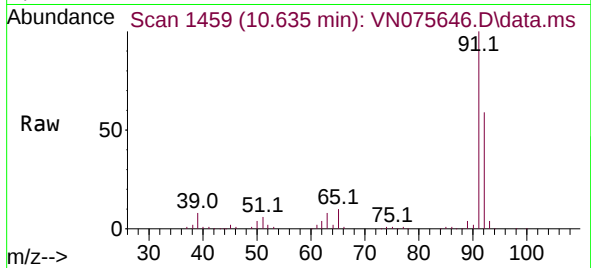




#52
Toluene
Concen: 47.190 ug/l
RT: 10.635 min Scan# 1458
Delta R.T. 0.005 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

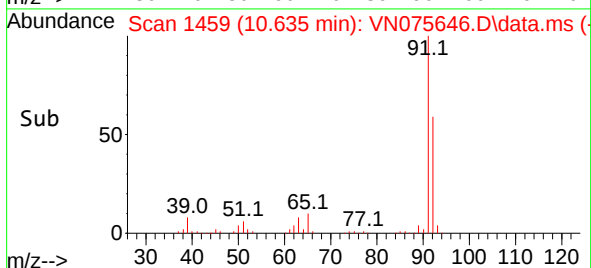
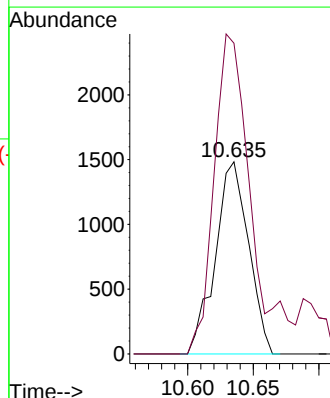
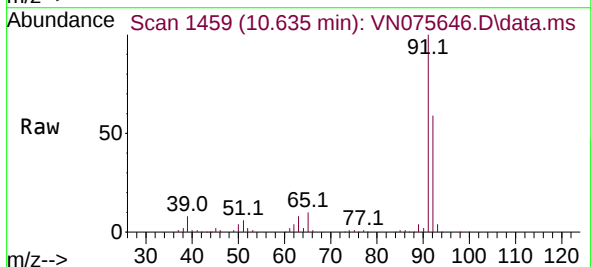
Instrument : MSVOA_N
ClientSampleId : GW-BR-04-100-114-120722

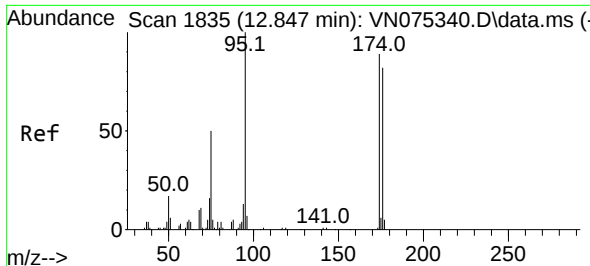
Tgt Ion: 92 Resp: 220225
Ion Ratio Lower Upper
92 100
91 170.0 135.4 203.2



#53
t-1,3-Dichloropropene
Concen: 1.034 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. -0.200 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 75 Resp: 2624
Ion Ratio Lower Upper
75 100
77 161.8 25.4 38.2#

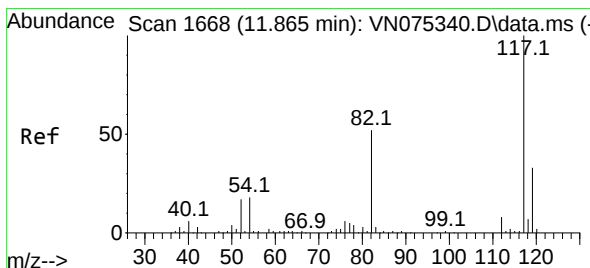
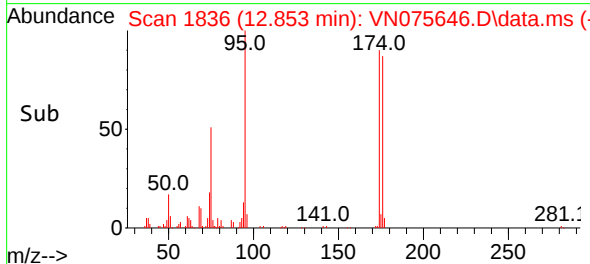
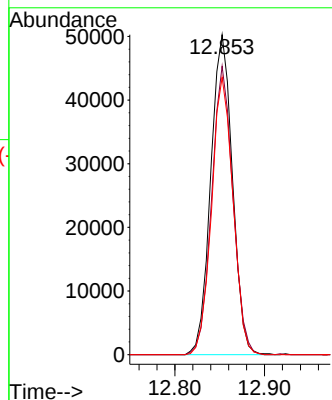
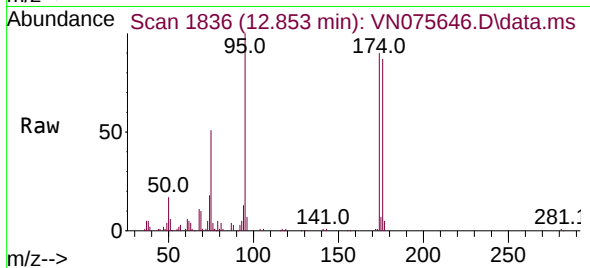




#62
4-Bromofluorobenzene
Concen: 46.845 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

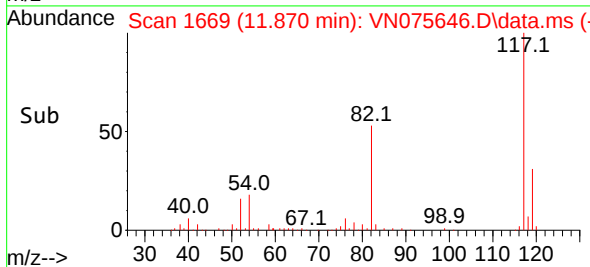
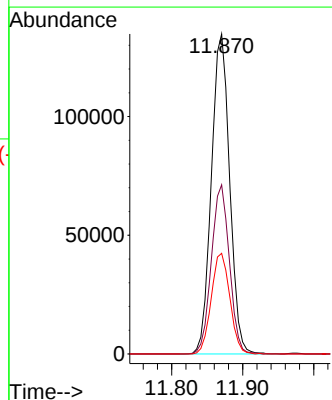
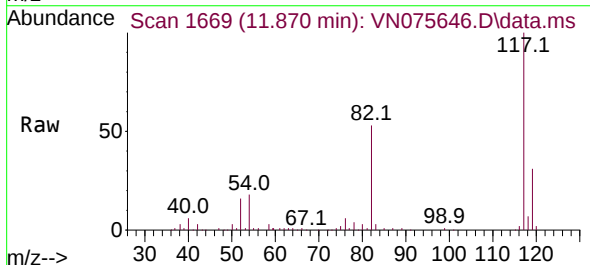
Instrument :
MSVOA_N
ClientSampleId :
GW-BR-04-100-114-120722

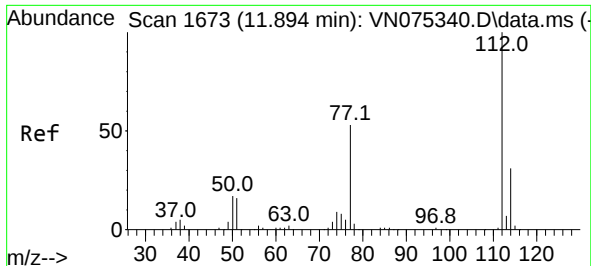
Tgt Ion:	95	Resp:	84467
Ion	Ratio	Lower	Upper
95	100		
174	88.1	0.0	147.4
176	85.4	0.0	142.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1669
Delta R.T. 0.005 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion:	117	Resp:	240482
Ion	Ratio	Lower	Upper
117	100		
82	52.8	43.1	64.7
119	31.4	25.5	38.3

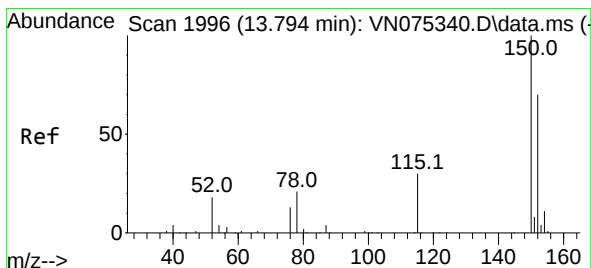
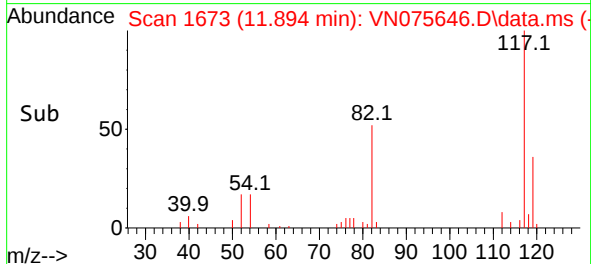
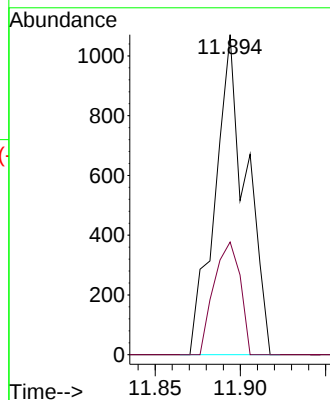
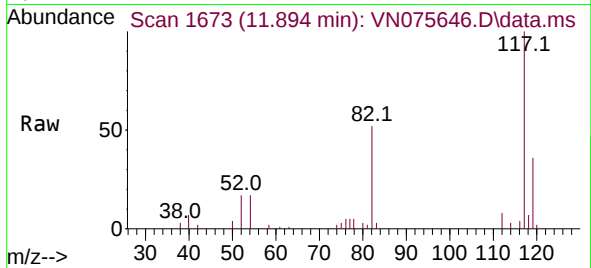




#65
Chlorobenzene
Concen: 0.276 ug/l
RT: 11.894 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

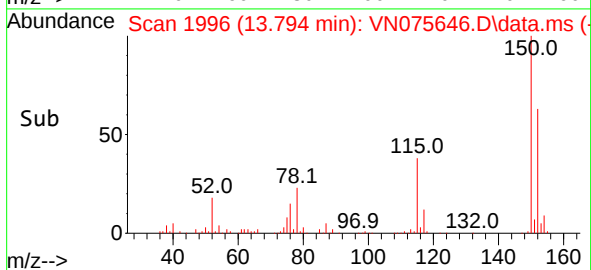
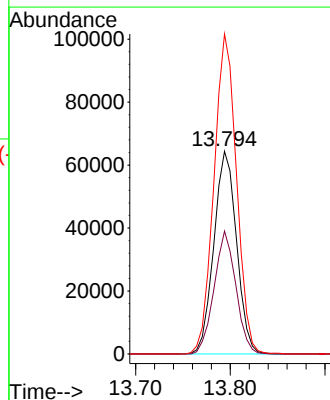
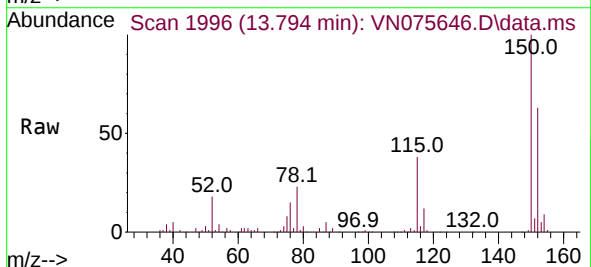
Instrument :
MSVOA_N
ClientSampleId :
GW-BR-04-100-114-120722

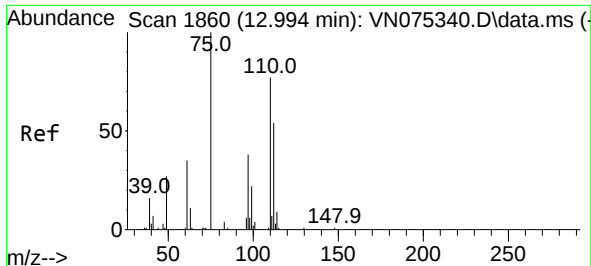
Tgt Ion:112 Resp: 1370
Ion Ratio Lower Upper
112 100
114 35.2 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion:152 Resp: 107318
Ion Ratio Lower Upper
152 100
115 58.0 30.2 90.6
150 156.9 0.0 348.4

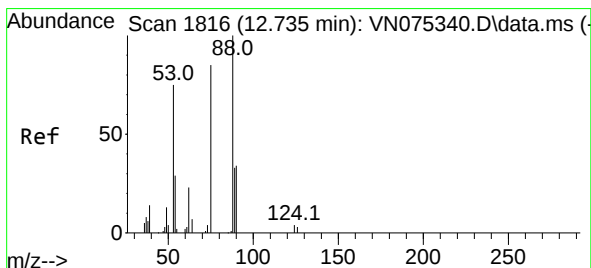
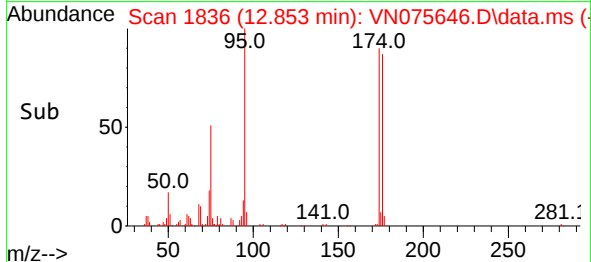
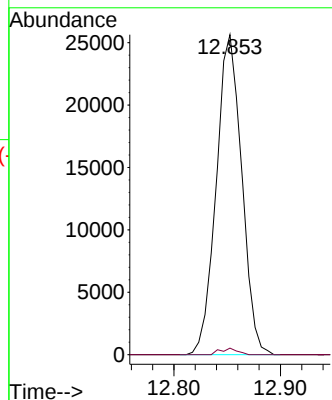
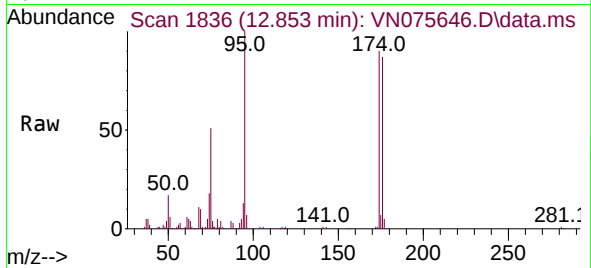




#76
1,2,3-Trichloropropane
Concen: 20.991 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

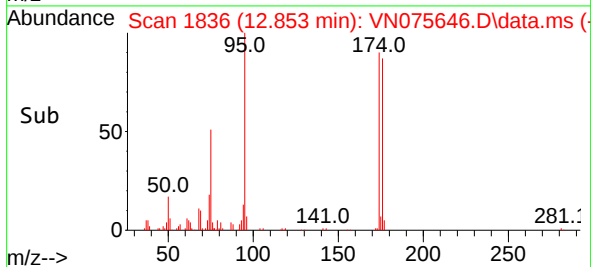
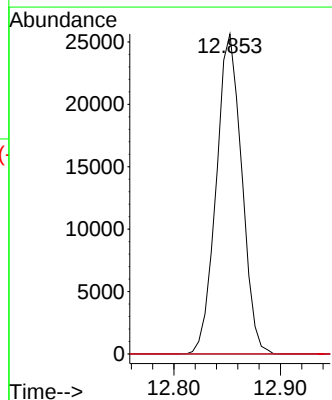
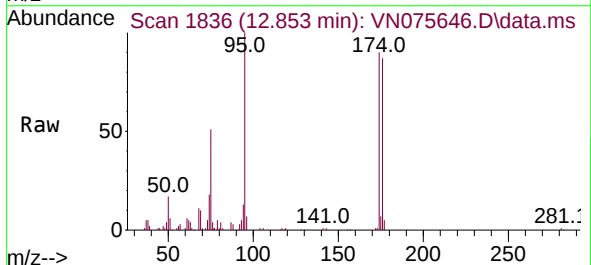
Instrument :
MSVOA_N
ClientSampleId :
GW-BR-04-100-114-120722

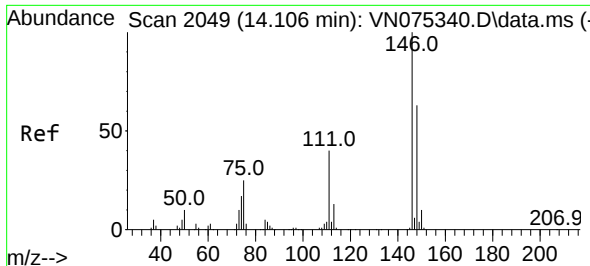
Tgt Ion: 75 Resp: 42592
Ion Ratio Lower Upper
75 100
77 1.4 75.6 226.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.106 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN075646.D
Acq: 08 Dec 2022 14:32

Tgt Ion: 75 Resp: 42592
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#





#91

1,2-Dichlorobenzene

Concen: 0.425 ug/l

RT: 14.111 min Scan# 2049

Delta R.T. 0.005 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

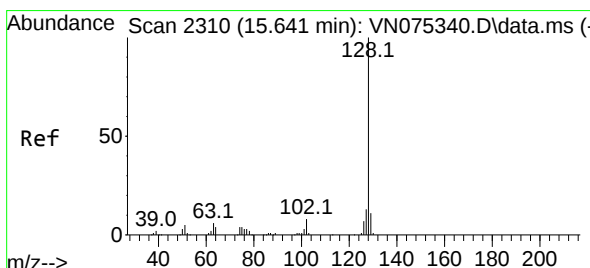
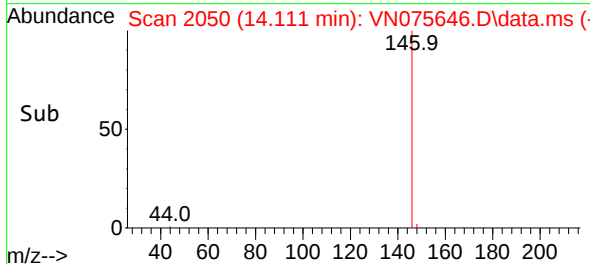
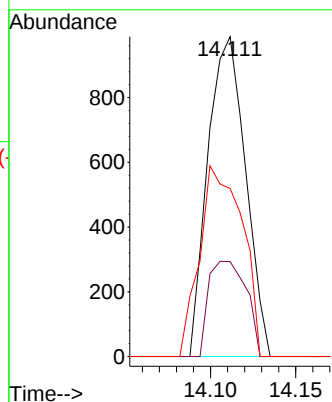
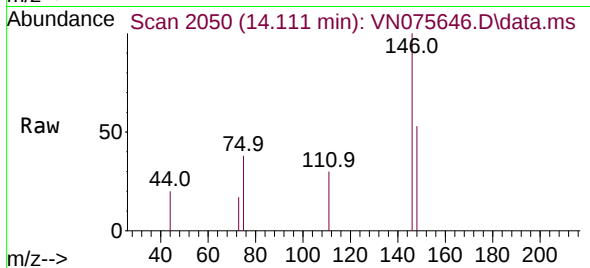
Instrument :

MSVOA_N

ClientSampleId :

GW-BR-04-100-114-120722

Tgt Ion:146	Resp:	1518
Ion	Ratio	Lower Upper
146	100	
111	29.7	21.3 63.9
148	67.3	31.4 94.2



#95

Naphthalene

Concen: 0.235 ug/l

RT: 15.647 min Scan# 2311

Delta R.T. 0.006 min

Lab File: VN075646.D

Acq: 08 Dec 2022 14:32

Tgt Ion:128	Resp:	1357
Ion	Ratio	Lower Upper
128	100	
127	0.0	10.4 15.6#
129	0.0	8.6 12.8#

