

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080222\
 Data File : VN073684.D
 Acq On : 02 Aug 2022 13:58
 Operator : JC\MD
 Sample : N3971-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-12

Quant Time: Aug 03 02:05:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

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

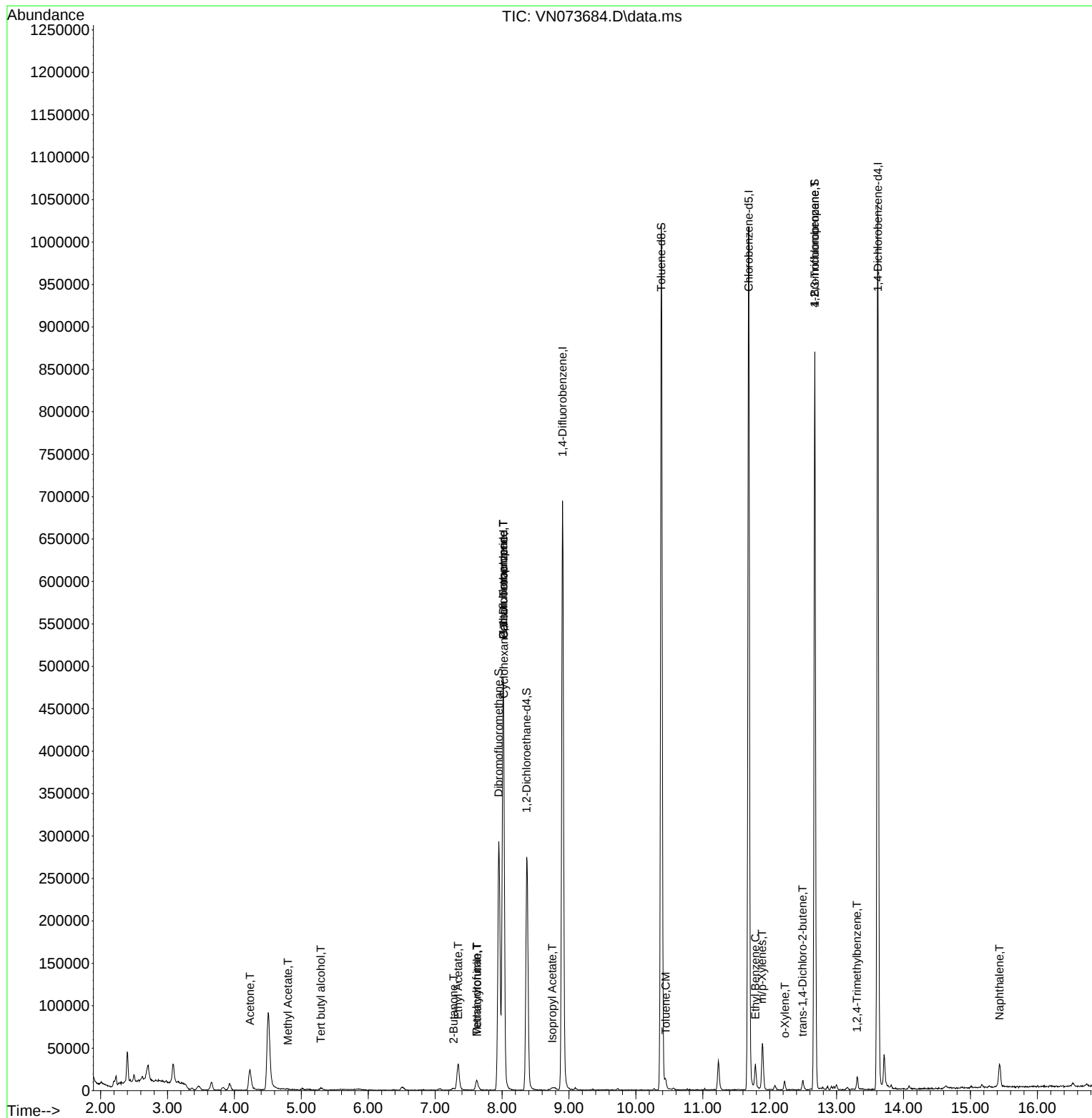
Internal Standards						
1) Pentafluorobenzene	8.022	168	396440	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	633671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	597678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	293281	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	230644	47.740	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.480%
35) Dibromofluoromethane	7.951	113	215176	54.077	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	108.160%
50) Toluene-d8	10.380	98	707868	45.208	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.420%
62) 4-Bromofluorobenzene	12.674	95	272289	51.708	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.420%
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	1117	Below Cal	#	43
6) Chloroethane	2.963	64	411	Below Cal	#	42
11) Tert butyl alcohol	5.292	59	3913	3.756	ug/l #	87
16) Acetone	4.234	43	44221	17.041	ug/l	98
18) Methyl Acetate	4.798	43	2743	0.425	ug/l #	59
20) Methylene Chloride	5.010	84	1003	Below Cal	#	76
25) 2-Butanone	7.275	43	3097	0.769	ug/l #	81
29) Tetrahydrofuran	7.622	42	9201	3.611	ug/l	96
31) Cyclohexane	8.027	56	7945	1.105	ug/l #	34
36) 1,1-Dichloropropene	8.016	75	28441	5.015	ug/l #	49
37) Ethyl Acetate	7.345	43	47445	6.353	ug/l	97
38) Carbon Tetrachloride	8.022	117	37650	6.537	ug/l #	17
41) Methacrylonitrile	7.628	41	5705	1.688	ug/l #	40
43) Isopropyl Acetate	8.751	43	2203	0.218	ug/l #	53
52) Toluene	10.445	92	3342	0.297	ug/l	91
67) Ethyl Benzene	11.786	91	18827	0.879	ug/l	92
68) m/p-Xylenes	11.886	106	17854	2.186	ug/l	94
69) o-Xylene	12.227	106	2732	0.343	ug/l	93
76) 1,2,3-Trichloropropane	12.674	75	140250	24.457	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.492	75	5543	2.449	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.304	105	8833	0.508	ug/l	93
95) Naphthalene	15.433	128	31640	1.899	ug/l	98

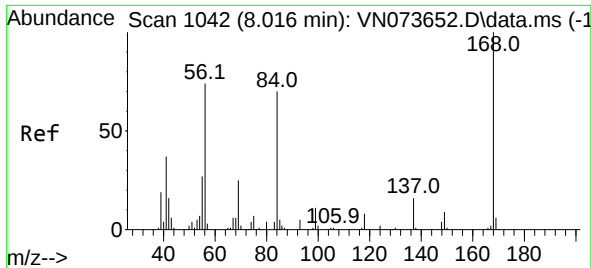
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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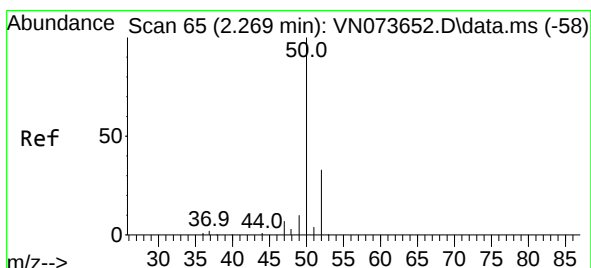
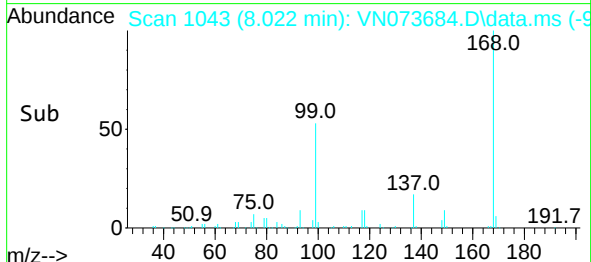
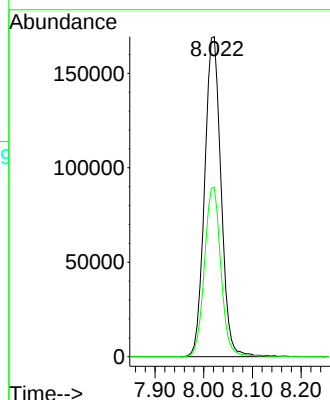
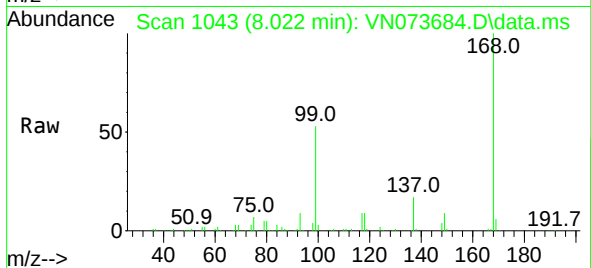




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

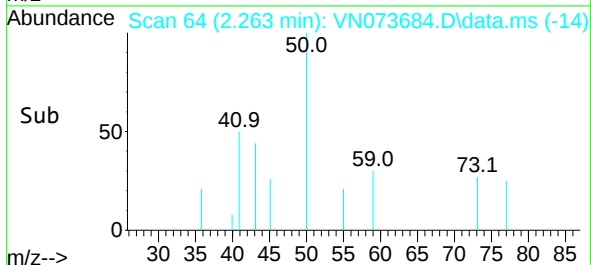
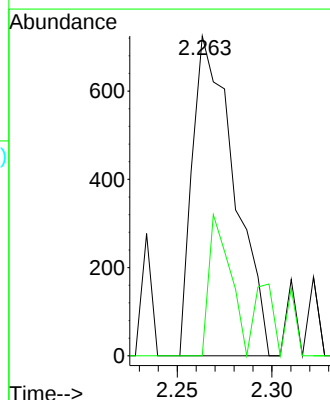
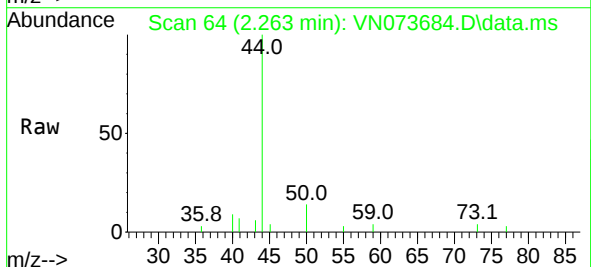
Instrument :
MSVOA_N
ClientSampleId :
MW-12

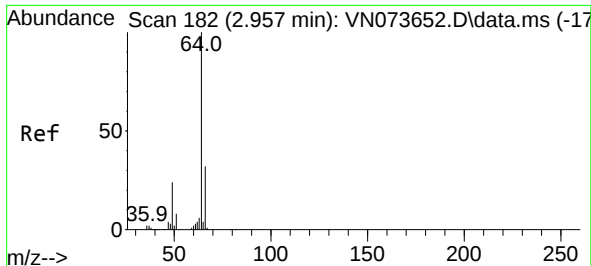
Tgt Ion:168 Resp: 396440
Ion Ratio Lower Upper
168 100
99 53.0 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion: 50 Resp: 1117
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

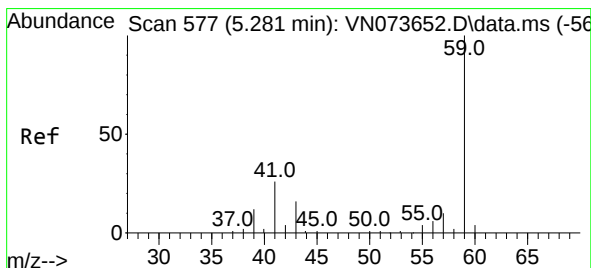
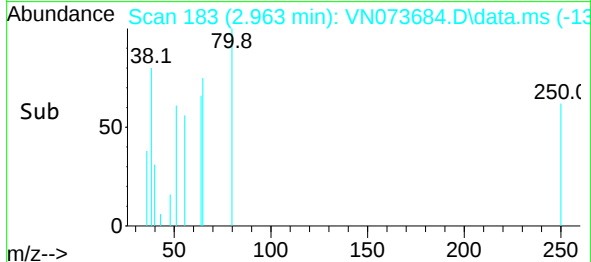
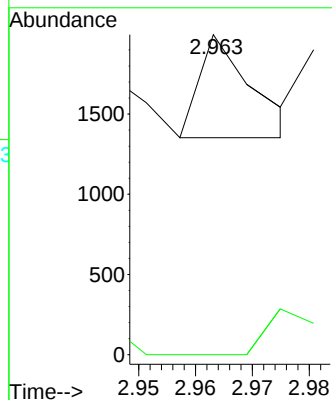
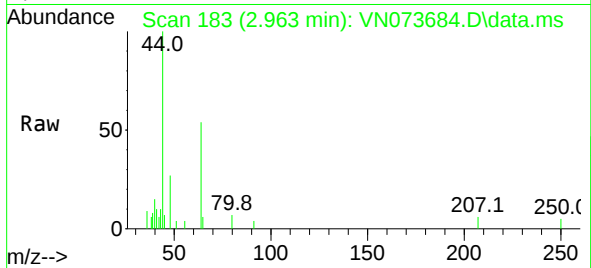




#6
Chloroethane
Concen: Below Cal
RT: 2.963 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

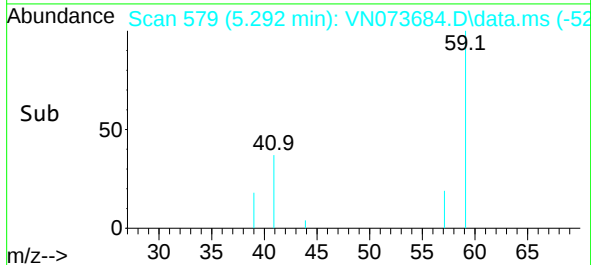
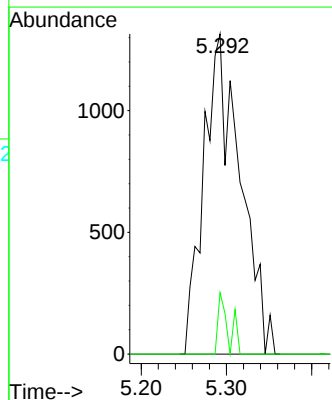
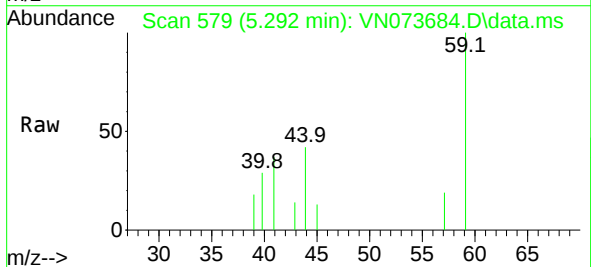
Instrument :
MSVOA_N
ClientSampleId :
MW-12

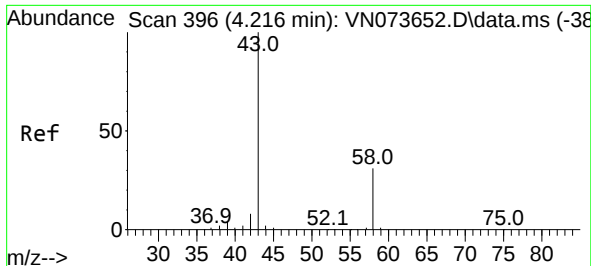
Tgt Ion: 64 Resp: 411
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 3.756 ug/l
RT: 5.292 min Scan# 579
Delta R.T. 0.000 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion: 59 Resp: 3913
Ion Ratio Lower Upper
59 100
57 5.4 8.3 12.5#





#16

Acetone

Concen: 17.041 ug/l

RT: 4.234 min Scan# 399

Delta R.T. 0.012 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

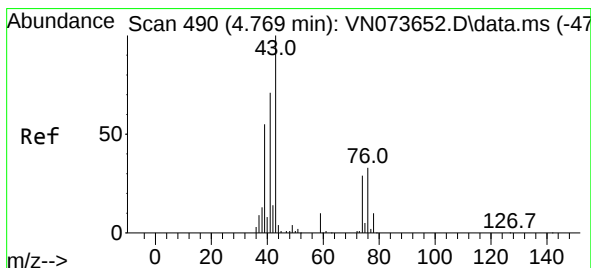
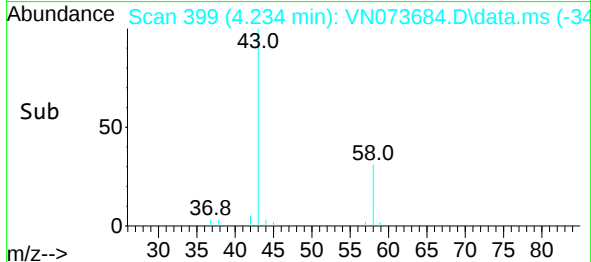
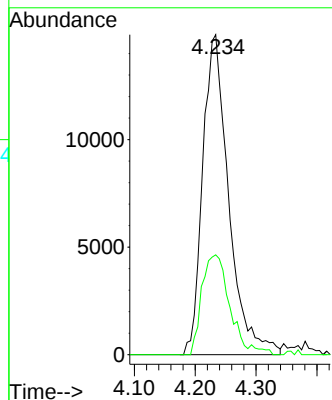
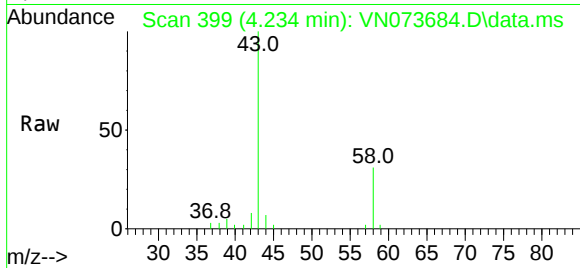
MW-12

Tgt Ion: 43 Resp: 44221

Ion Ratio Lower Upper

43 100

58 31.2 26.0 39.0



#18

Methyl Acetate

Concen: 0.425 ug/l

RT: 4.798 min Scan# 495

Delta R.T. 0.018 min

Lab File: VN073684.D

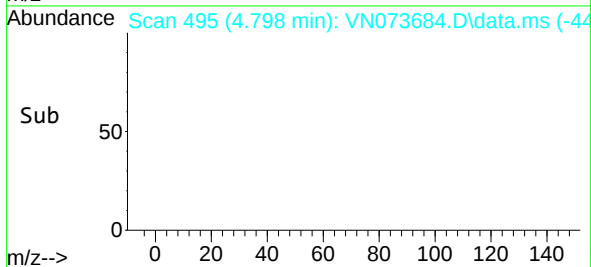
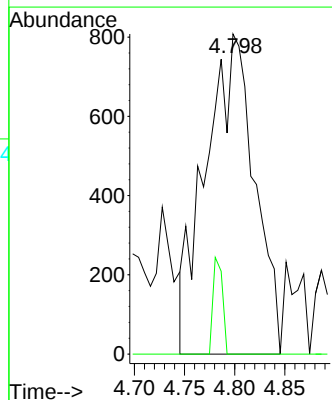
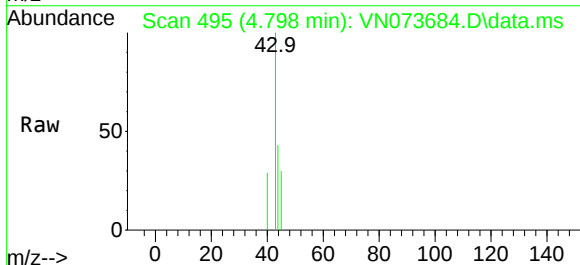
Acq: 02 Aug 2022 13:58

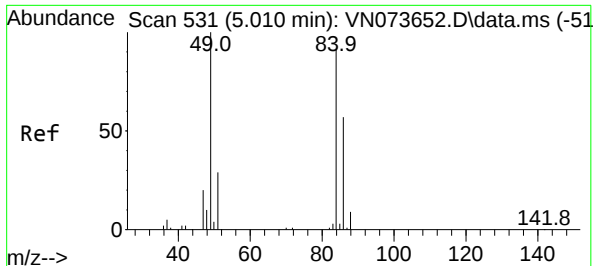
Tgt Ion: 43 Resp: 2743

Ion Ratio Lower Upper

43 100

74 5.8 21.6 32.4#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.010 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN073684.D

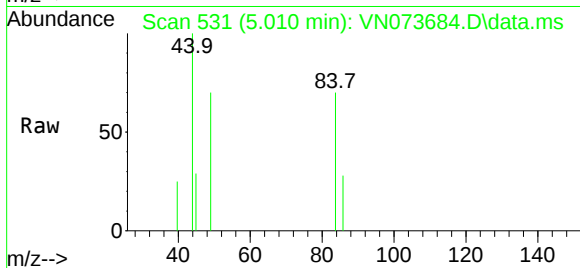
Acq: 02 Aug 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

MW-12



Tgt Ion: 84 Resp: 1003

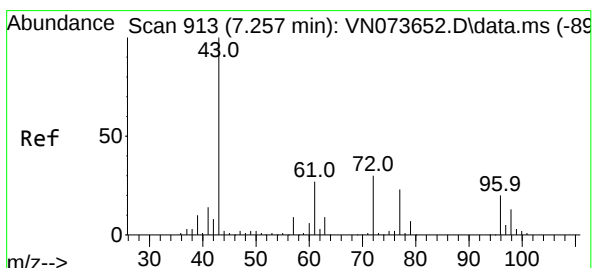
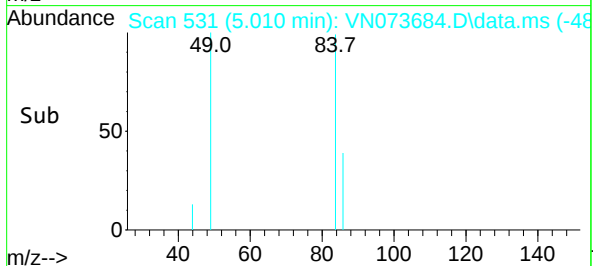
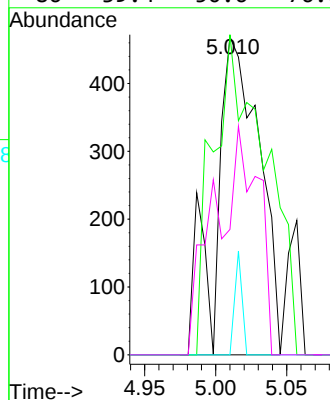
Ion Ratio Lower Upper

84 100

49 100.6 88.3 132.5

51 0.0 28.2 42.2#

86 39.4 50.6 76.0#



#25

2-Butanone

Concen: 0.769 ug/l

RT: 7.275 min Scan# 916

Delta R.T. 0.018 min

Lab File: VN073684.D

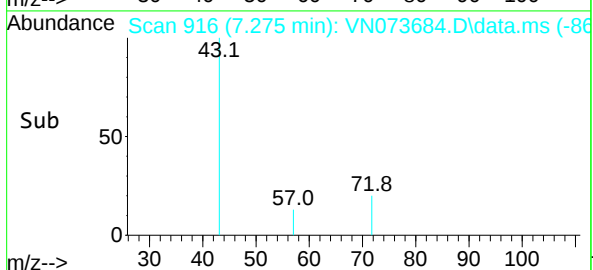
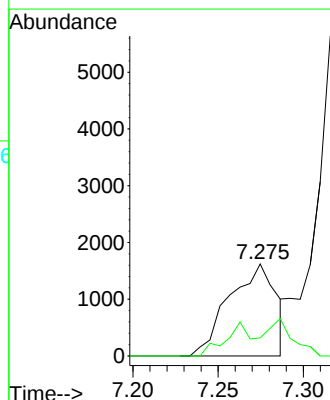
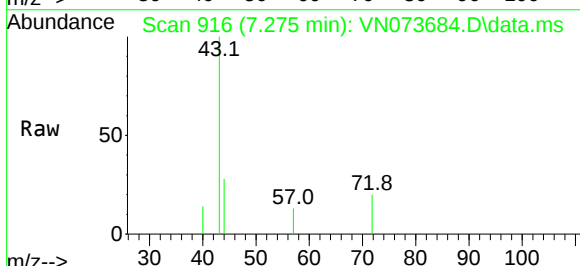
Acq: 02 Aug 2022 13:58

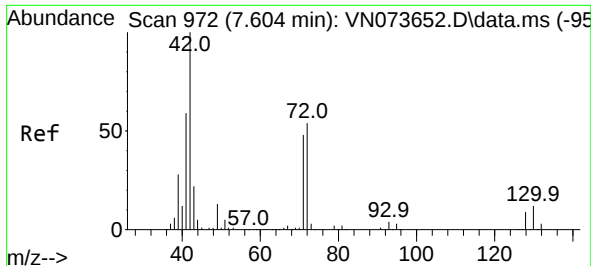
Tgt Ion: 43 Resp: 3097

Ion Ratio Lower Upper

43 100

72 19.6 23.7 35.5#





#29

Tetrahydrofuran

Concen: 3.611 ug/l

RT: 7.622 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

MW-12

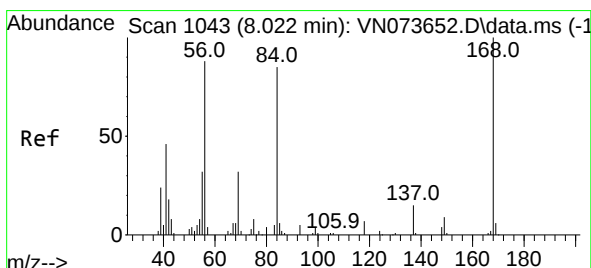
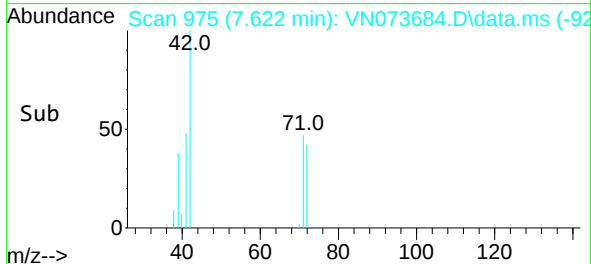
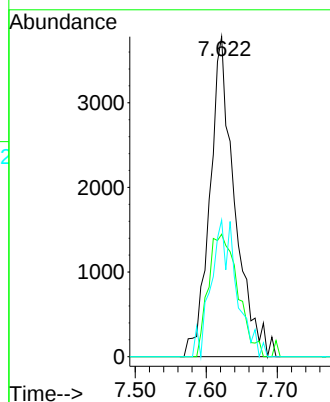
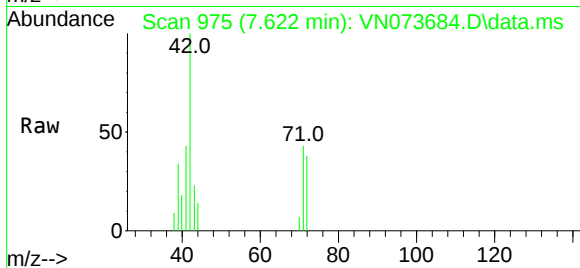
Tgt Ion: 42 Resp: 9201

Ion Ratio Lower Upper

42 100

72 45.6 39.7 59.5

71 44.1 36.6 55.0



#31

Cyclohexane

Concen: 1.105 ug/l

RT: 8.027 min Scan# 1044

Delta R.T. 0.006 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

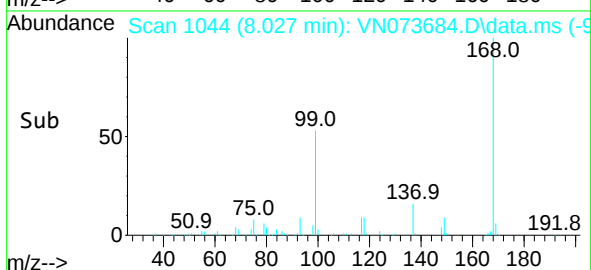
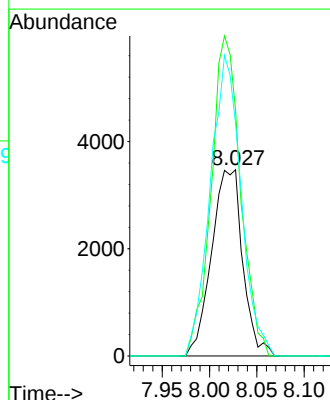
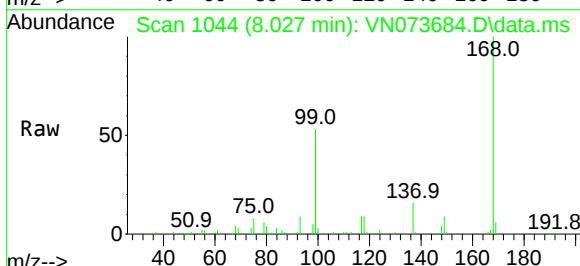
Tgt Ion: 56 Resp: 7945

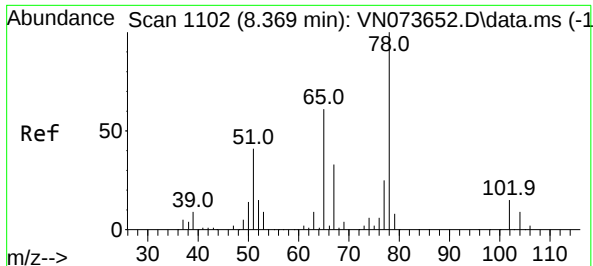
Ion Ratio Lower Upper

56 100

69 131.9 27.8 41.8#

84 124.8 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 47.740 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

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ClientSampleId :

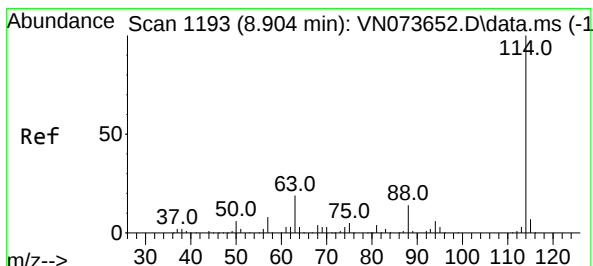
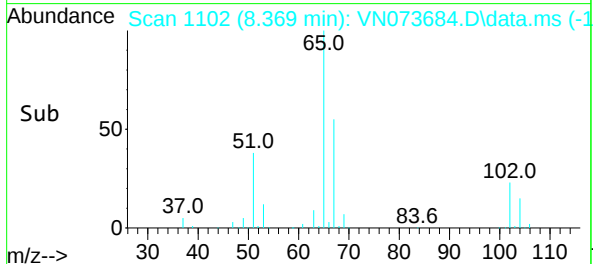
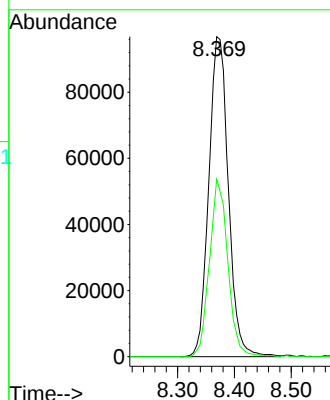
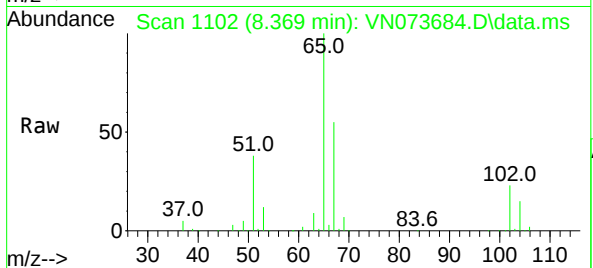
MW-12

Tgt Ion: 65 Resp: 230644

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

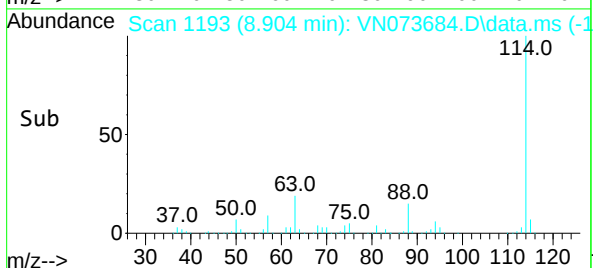
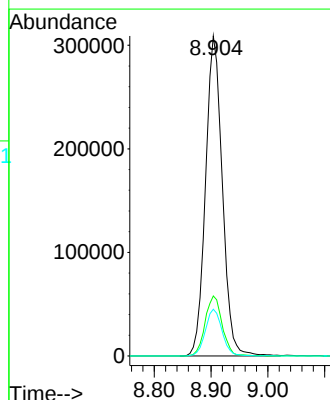
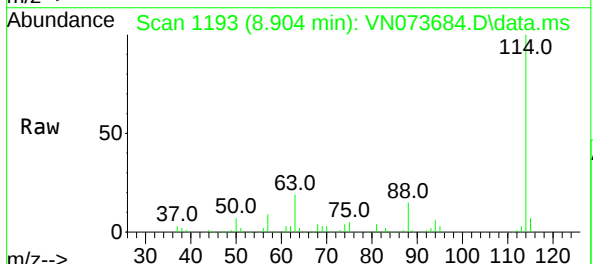
Tgt Ion: 114 Resp: 633671

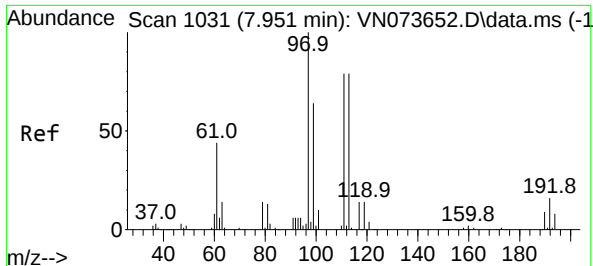
Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.0

88 14.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 54.077 ug/l

RT: 7.951 min Scan# 1042

Delta R.T. -0.000 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

MW-12

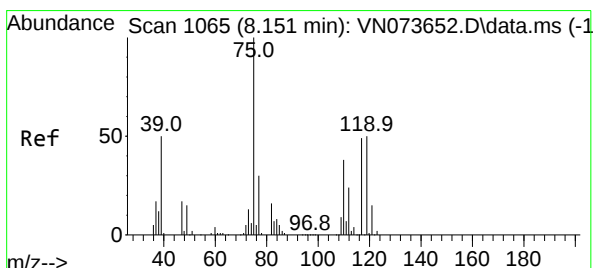
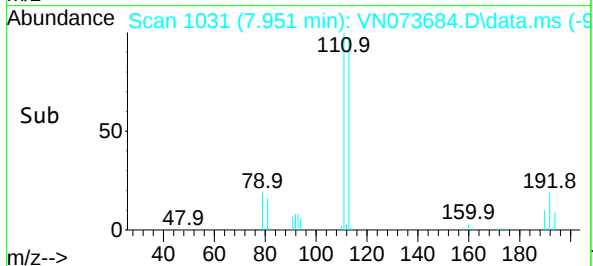
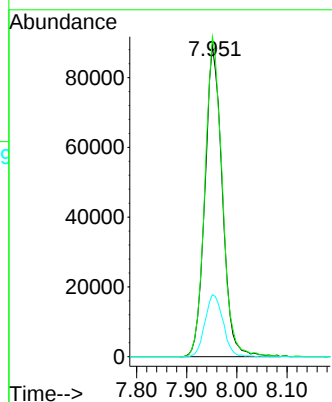
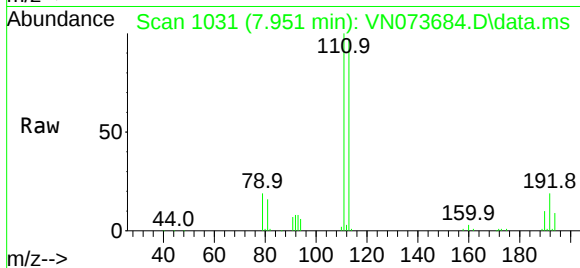
Tgt Ion:113 Resp: 215176

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

192 20.7 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.015 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

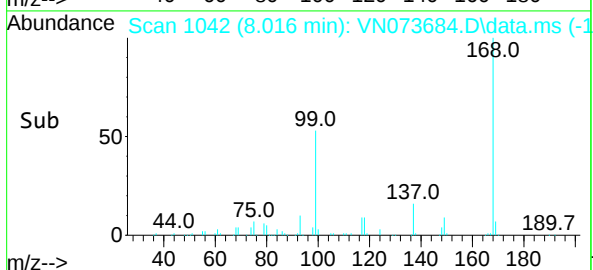
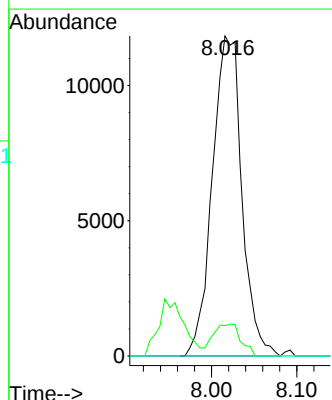
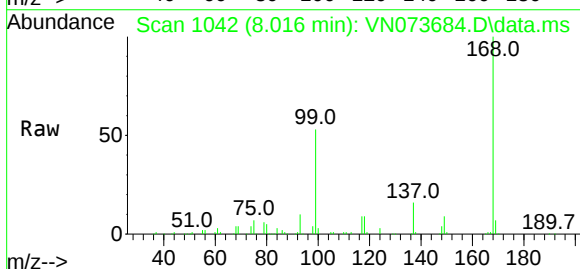
Tgt Ion: 75 Resp: 28441

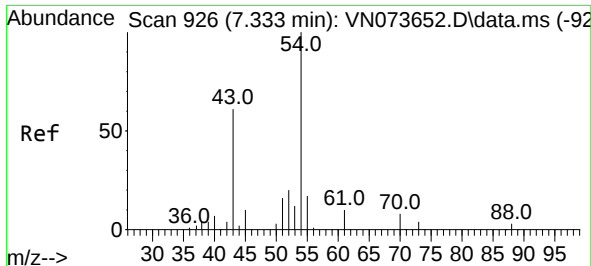
Ion Ratio Lower Upper

75 100

110 9.5 18.3 54.8#

77 0.0 25.1 37.7#

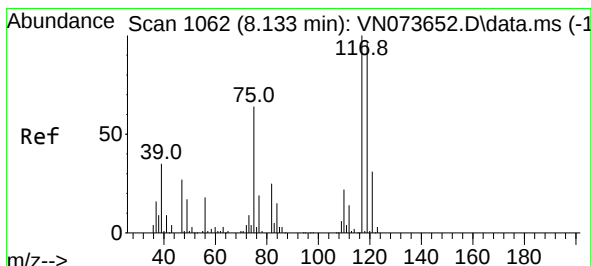
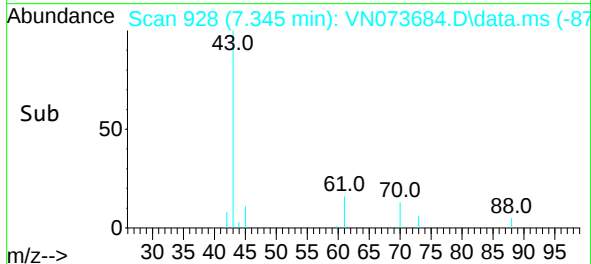
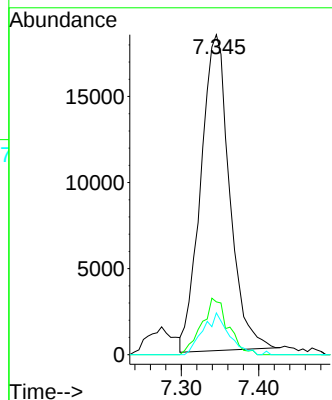
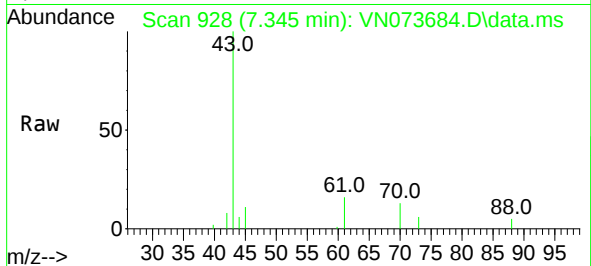




#37
Ethyl Acetate
Concen: 6.353 ug/l
RT: 7.345 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

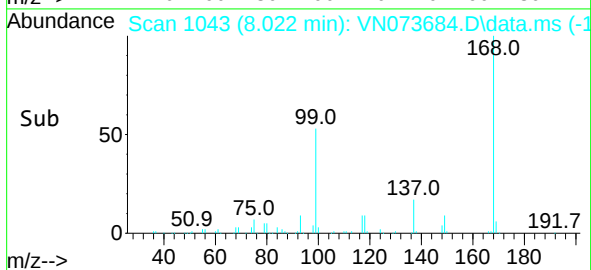
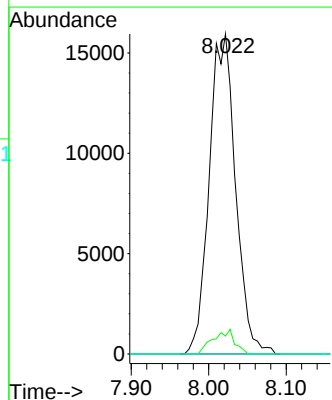
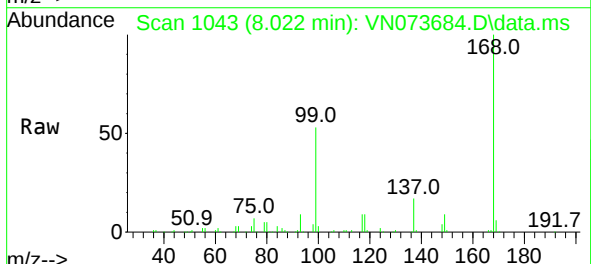
Instrument :
MSVOA_N
ClientSampleId :
MW-12

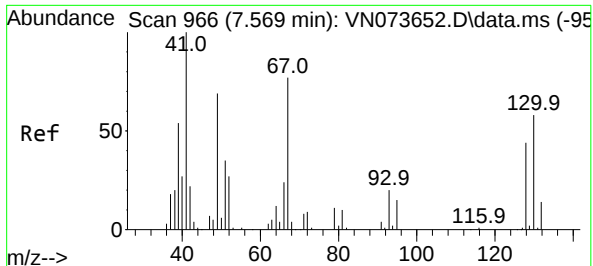
Tgt Ion: 43	Resp: 47445
Ion Ratio	Lower Upper
43 100	
61 16.4	11.8 17.6
70 11.9	9.3 13.9



#38
Carbon Tetrachloride
Concen: 6.537 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.112 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion: 117	Resp: 37650
Ion Ratio	Lower Upper
117 100	
119 5.6	75.8 113.8#
121 0.0	24.6 37.0#

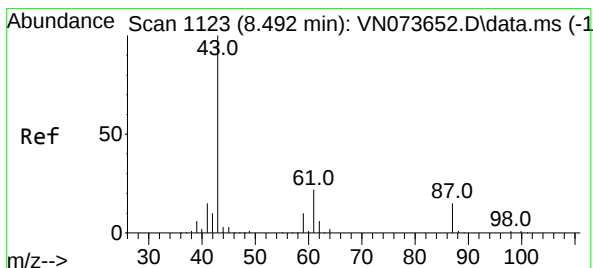
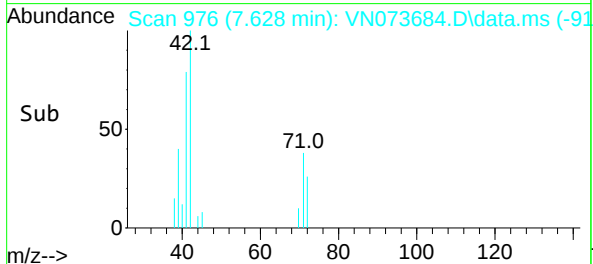
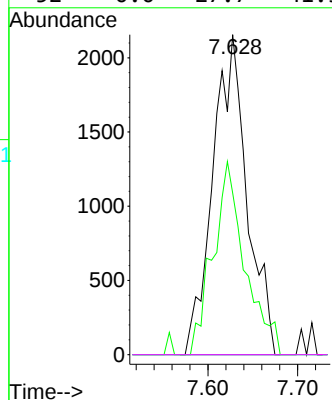
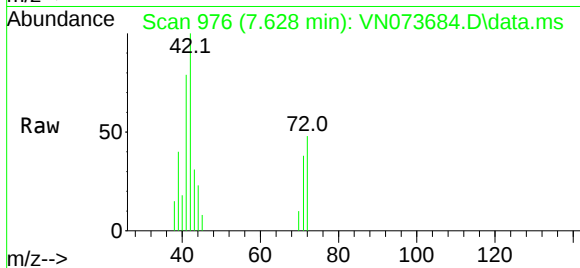




#41
Methacrylonitrile
Concen: 1.688 ug/l
RT: 7.628 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

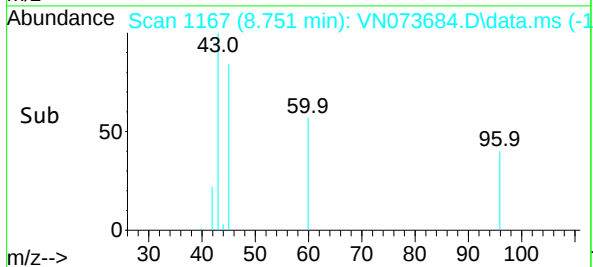
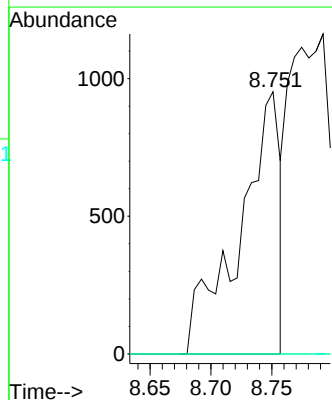
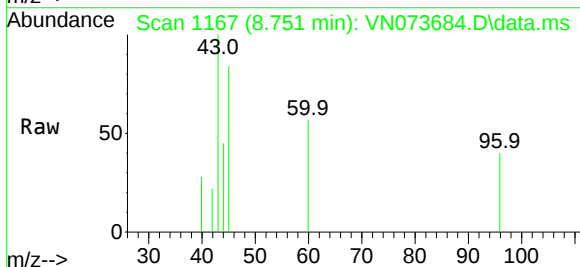
Instrument :
MSVOA_N
ClientSampleId :
MW-12

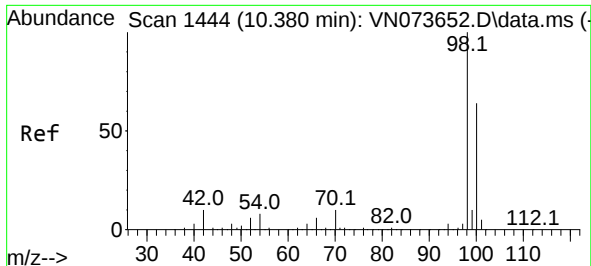
Tgt Ion:	41	Resp:	5705
Ion	Ratio	Lower	Upper
41	100		
39	56.5	48.6	73.0
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



#43
Isopropyl Acetate
Concen: 0.218 ug/l
RT: 8.751 min Scan# 1167
Delta R.T. 0.259 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion:	43	Resp:	2203
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.9	32.9#
87	0.0	12.0	18.0#





#50

Toluene-d8

Concen: 45.208 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

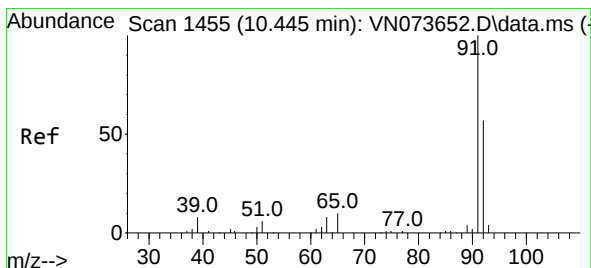
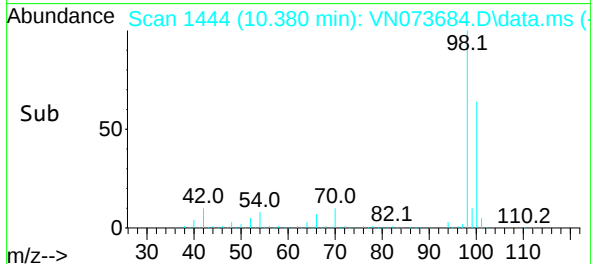
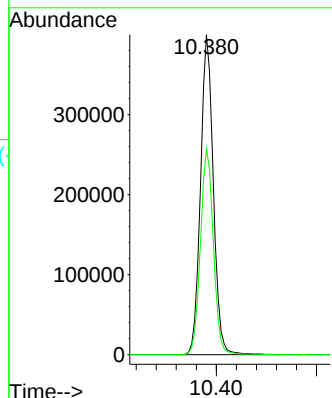
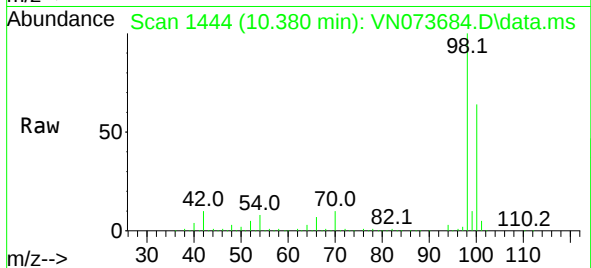
MW-12

Tgt Ion: 98 Resp: 707868

Ion Ratio Lower Upper

98 100

100 64.9 52.6 78.8



#52

Toluene

Concen: 0.297 ug/l

RT: 10.445 min Scan# 1455

Delta R.T. -0.000 min

Lab File: VN073684.D

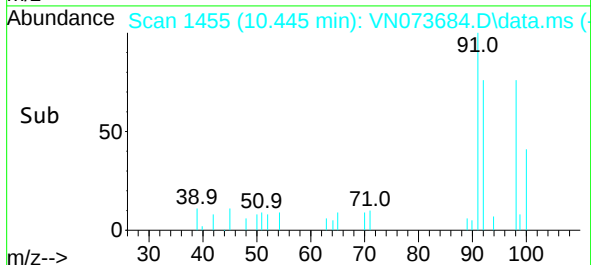
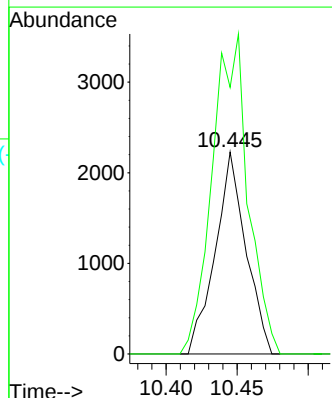
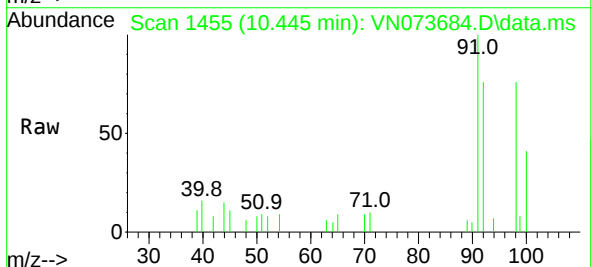
Acq: 02 Aug 2022 13:58

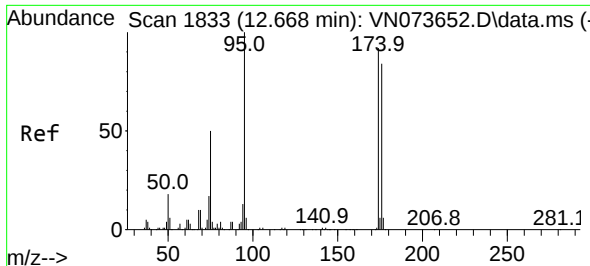
Tgt Ion: 92 Resp: 3342

Ion Ratio Lower Upper

92 100

91 185.2 138.6 207.8

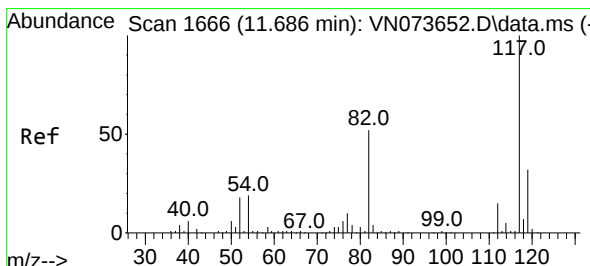
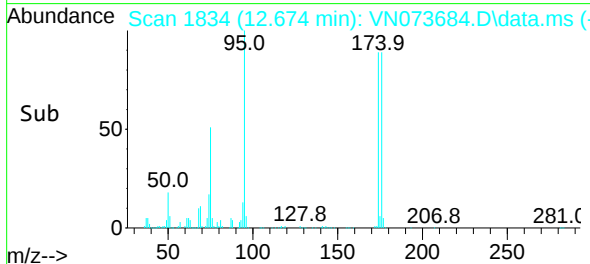
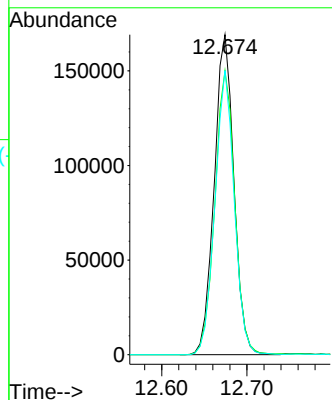
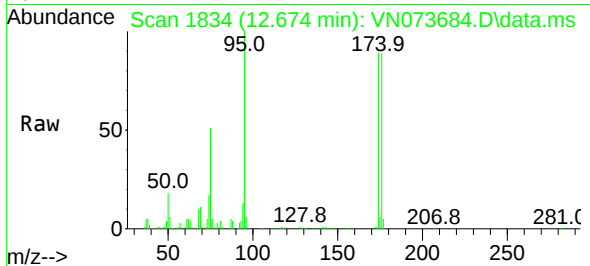




#62
4-Bromofluorobenzene
Concen: 51.708 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

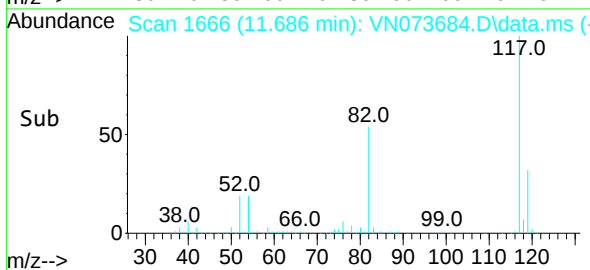
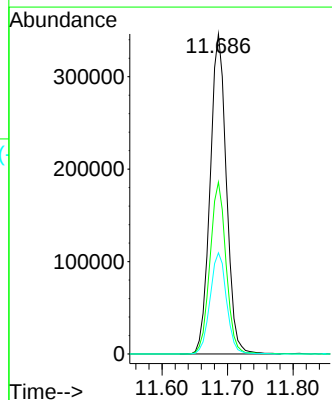
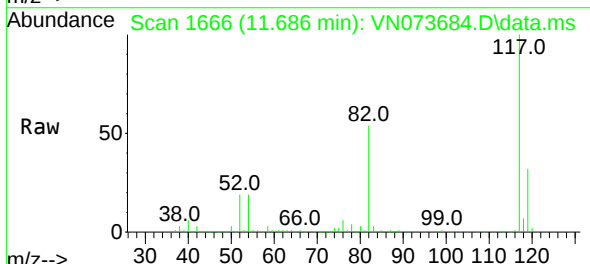
Instrument :
MSVOA_N
ClientSampleId :
MW-12

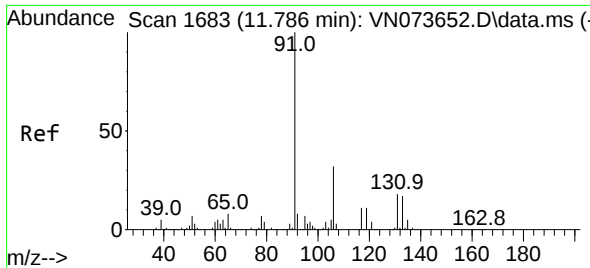
Tgt Ion: 95 Resp: 272289
Ion Ratio Lower Upper
95 100
174 89.7 0.0 167.6
176 86.7 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. -0.000 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion: 117 Resp: 597678
Ion Ratio Lower Upper
117 100
82 53.7 44.2 66.2
119 31.6 25.4 38.0

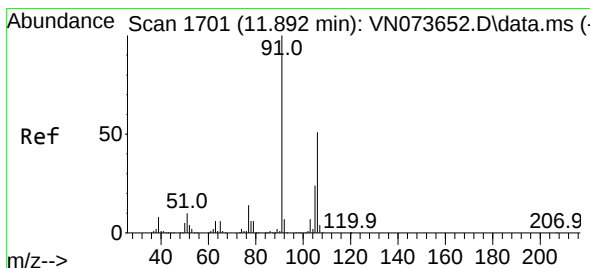
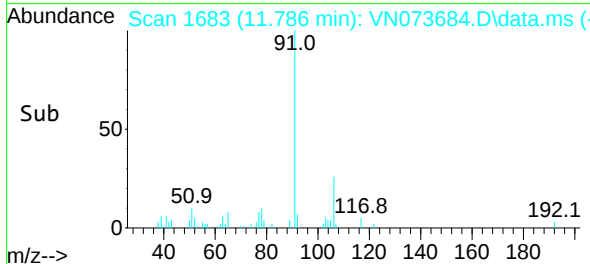
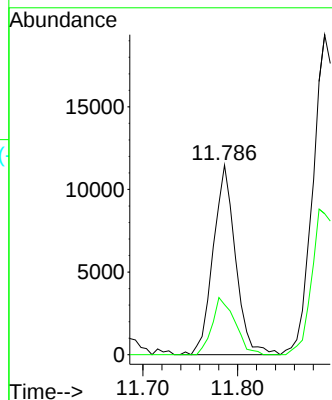
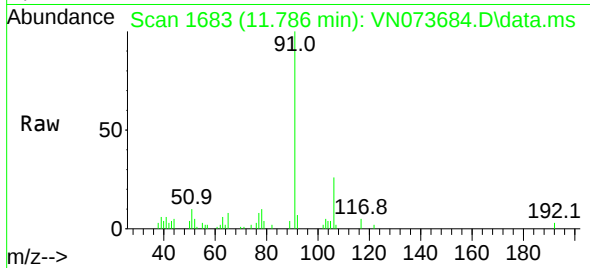




#67
Ethyl Benzene
Concen: 0.879 ug/l
RT: 11.786 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

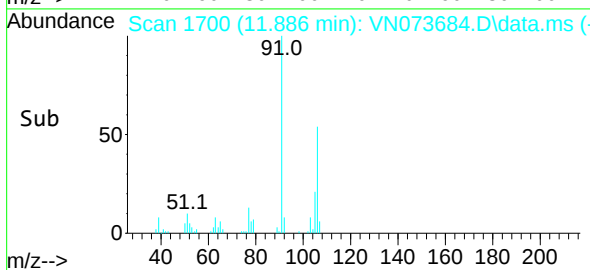
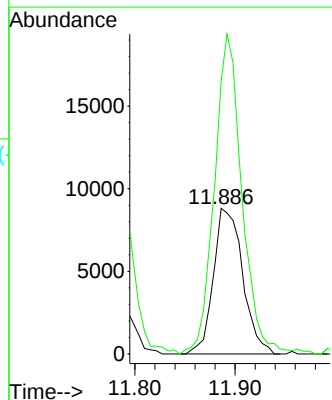
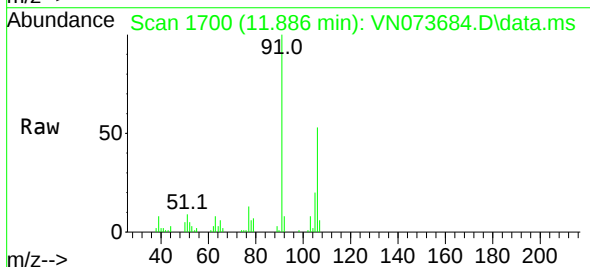
Instrument :
MSVOA_N
ClientSampleId :
MW-12

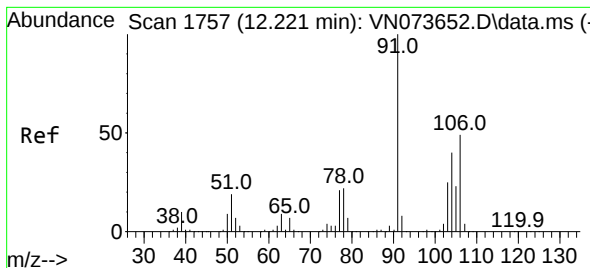
Tgt Ion: 91 Resp: 18827
Ion Ratio Lower Upper
91 100
106 26.4 24.9 37.3



#68
m/p-Xylenes
Concen: 2.186 ug/l
RT: 11.886 min Scan# 1700
Delta R.T. -0.012 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion: 106 Resp: 17854
Ion Ratio Lower Upper
106 100
91 207.4 158.9 238.3





#69

o-Xylene

Concen: 0.343 ug/l

RT: 12.227 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

Instrument :

MSVOA_N

ClientSampleId :

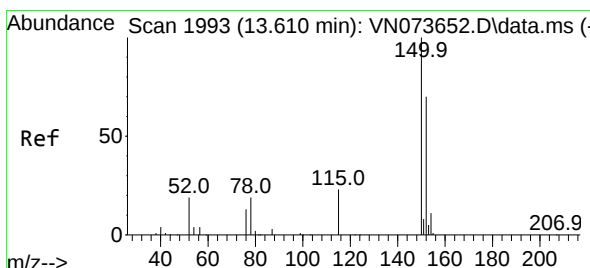
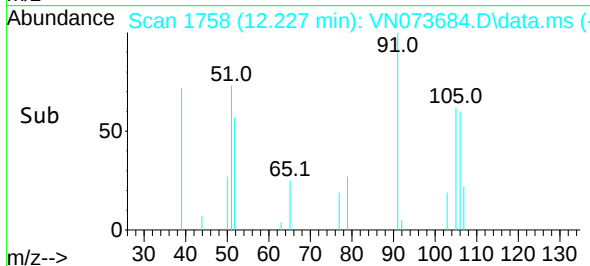
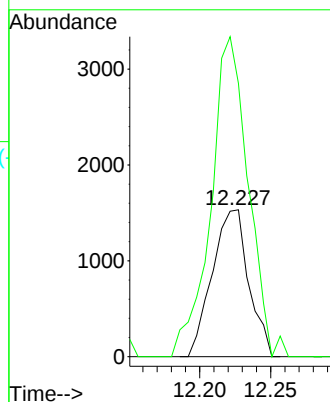
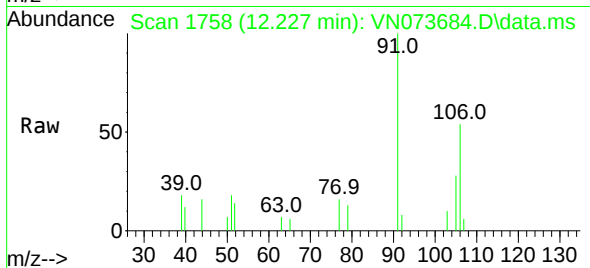
MW-12

Tgt Ion:106 Resp: 2732

Ion Ratio Lower Upper

106 100

91 223.1 106.0 318.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.615 min Scan# 1994

Delta R.T. -0.000 min

Lab File: VN073684.D

Acq: 02 Aug 2022 13:58

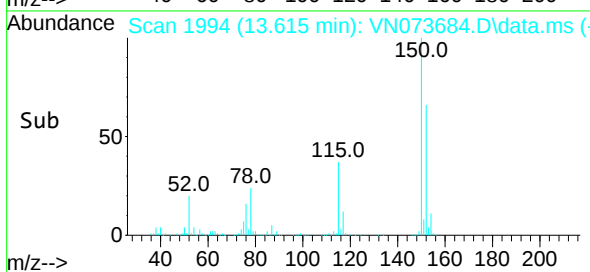
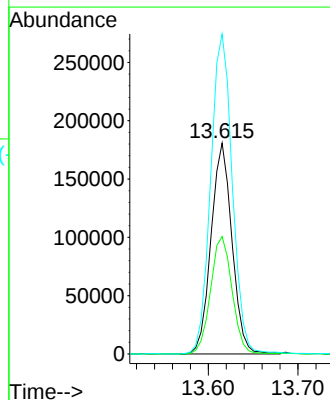
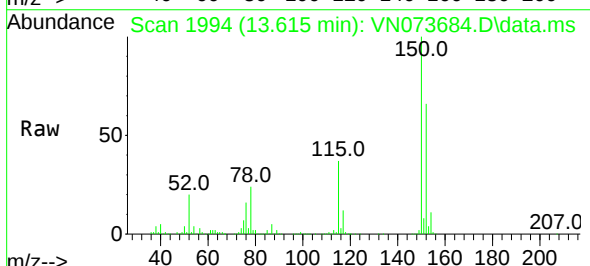
Tgt Ion:152 Resp: 293281

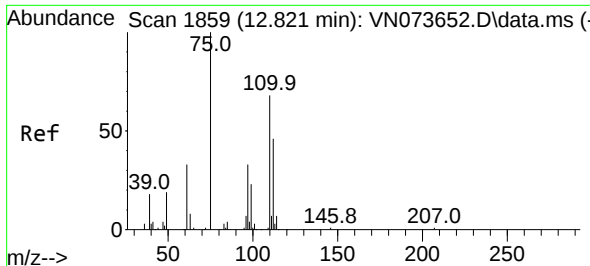
Ion Ratio Lower Upper

152 100

115 56.9 28.9 86.7

150 156.7 0.0 356.2

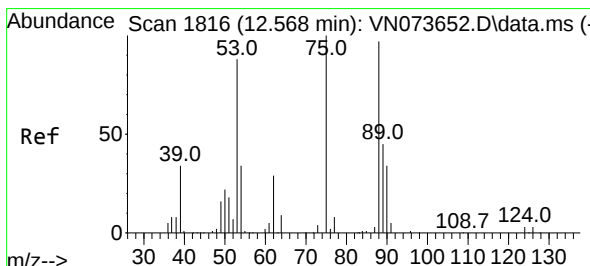
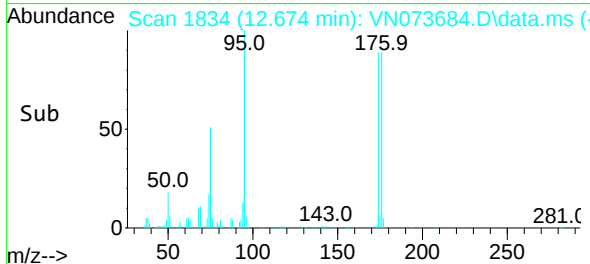
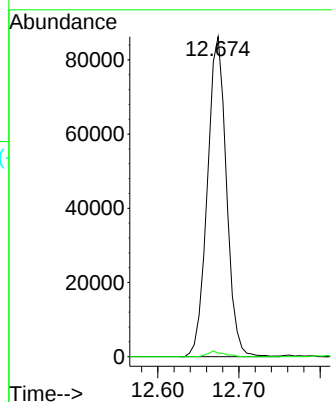
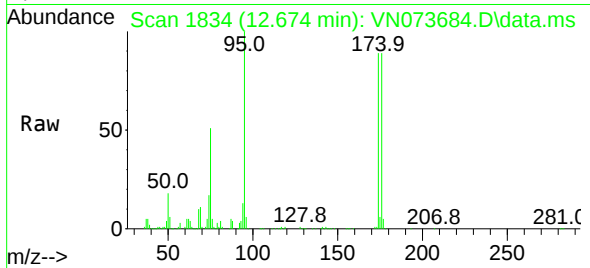




#76
1,2,3-Trichloropropane
Concen: 24.457 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

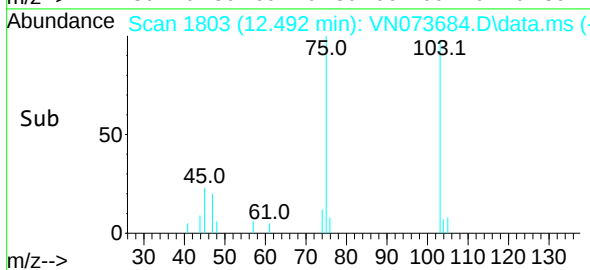
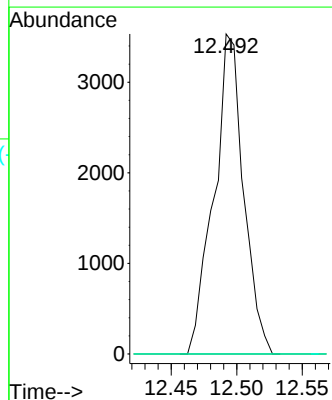
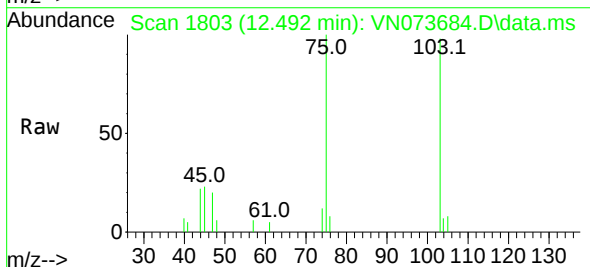
Instrument :
MSVOA_N
ClientSampleId :
MW-12

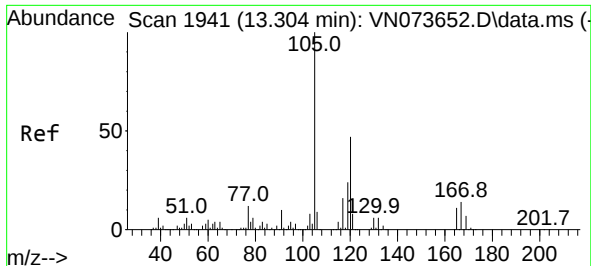
Tgt Ion: 75 Resp: 140250
Ion Ratio Lower Upper
75 100
77 1.5 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 2.449 ug/l
RT: 12.492 min Scan# 1803
Delta R.T. -0.077 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion: 75 Resp: 5543
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#

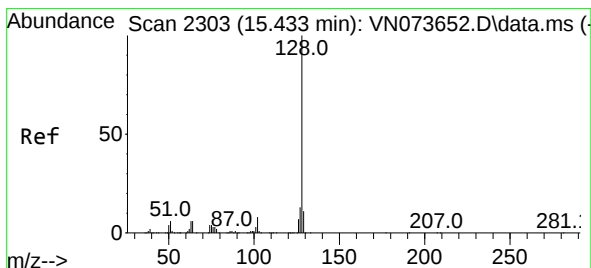
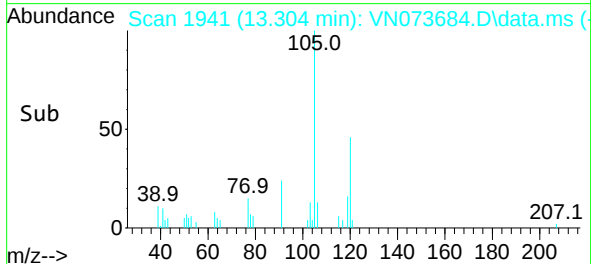
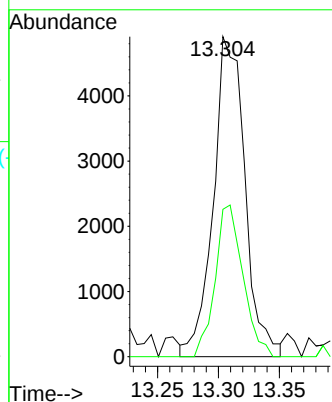
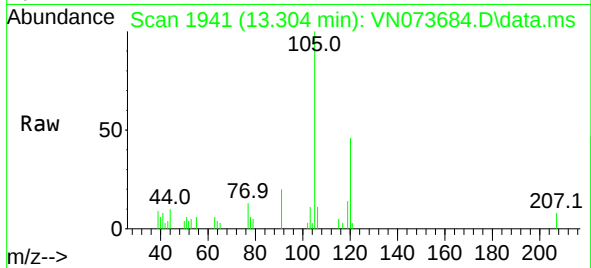




#84
1,2,4-Trimethylbenzene
Concen: 0.508 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. -0.006 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Instrument :
MSVOA_N
ClientSampleId :
MW-12

Tgt Ion:105 Resp: 8833
Ion Ratio Lower Upper
105 100
120 41.8 23.3 69.8



#95
Naphthalene
Concen: 1.899 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN073684.D
Acq: 02 Aug 2022 13:58

Tgt Ion:128 Resp: 31640
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 9.8 8.6 13.0

