

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082523\
 Data File : VN079051.D
 Acq On : 25 Aug 2023 15:35
 Operator : JC\MD
 Sample : 04093-02DL 200X
 Misc : 6.51g/5.0mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 25 23:04:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

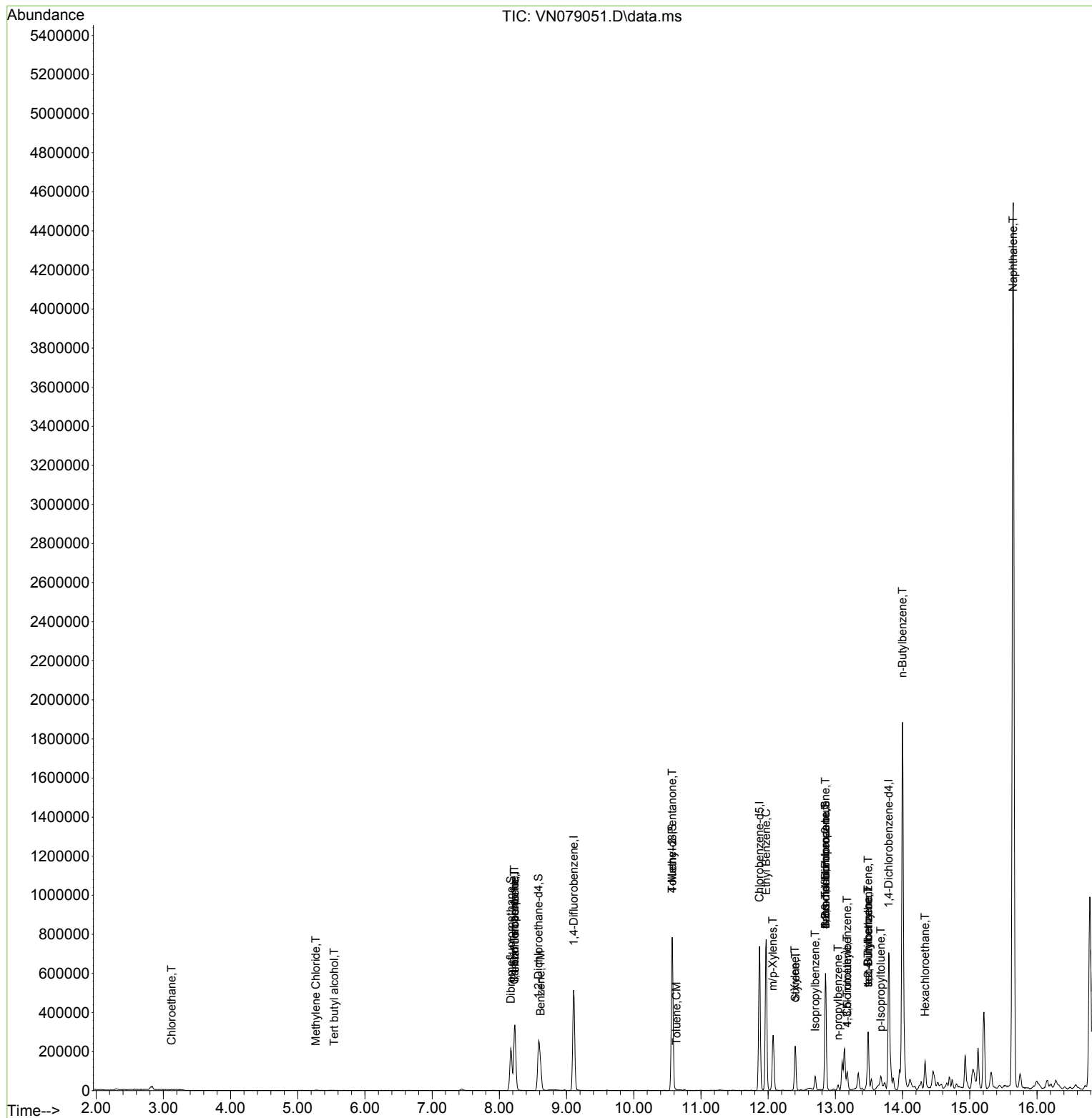
Internal Standards						
1) Pentafluorobenzene	8.229	168	245604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	443088	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	405186	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	180793	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	177966	46.566	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.140%		
35) Dibromofluoromethane	8.171	113	151312	50.731	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.460%		
50) Toluene-d8	10.570	98	525327	47.435	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.860%		
62) 4-Bromofluorobenzene	12.853	95	195370	53.971	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	107.940%		
Target Compounds					Qvalue	
6) Chloroethane	3.124	64	599	0.205	ug/l #	43
11) Tert butyl alcohol	5.541	59	152	0.237	ug/l #	72
20) Methylene Chloride	5.271	84	790	0.235	ug/l #	82
31) Cyclohexane	8.229	56	6274	Below Cal	#	54
36) 1,1-Dichloropropene	8.224	75	21440	4.779	ug/l #	48
38) Carbon Tetrachloride	8.224	117	25680	5.712	ug/l #	15
40) Benzene	8.612	78	113486	8.558	ug/l	98
51) 4-Methyl-2-Pentanone	10.570	43	2789	0.530	ug/l #	1
52) Toluene	10.635	92	1742	0.214	ug/l	95
67) Ethyl Benzene	11.970	91	558547	35.611	ug/l	94
68) m/p-Xylenes	12.070	106	86408	14.735	ug/l	94
69) o-Xylene	12.400	106	62540	10.963	ug/l	97
70) Styrene	12.406	104	3672	0.386	ug/l #	1
71) Bromoform	12.853	173	2360	0.996	ug/l #	1
73) Isopropylbenzene	12.700	105	43274	2.871	ug/l	97
76) 1,2,3-Trichloropropane	12.853	75	106810	24.519	ug/l #	1
78) n-propylbenzene	13.041	91	19449	1.113	ug/l	97
80) 1,3,5-Trimethylbenzene	13.176	105	44072	3.689	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.853	75	106810	62.635	ug/l #	15
82) 4-Chlorotoluene	13.176	91	4439	0.418	ug/l #	41
83) tert-Butylbenzene	13.488	119	19738	1.966	ug/l #	46
84) 1,2,4-Trimethylbenzene	13.488	105	161216	13.629	ug/l	99
85) sec-Butylbenzene	13.488	105	161216	11.671	ug/l #	57
86) p-Isopropyltoluene	13.676	119	21625	1.959	ug/l	97
89) n-Butylbenzene	14.000	91	180323	19.854	ug/l #	43
90) Hexachloroethane	14.335	117	9780	4.421	ug/l #	21
92) 1,2-Dibromo-3-Chloropr...	14.729	75	279	Below Cal	#	4
95) Naphthalene	15.647	128	4103647	469.763	ug/l	99

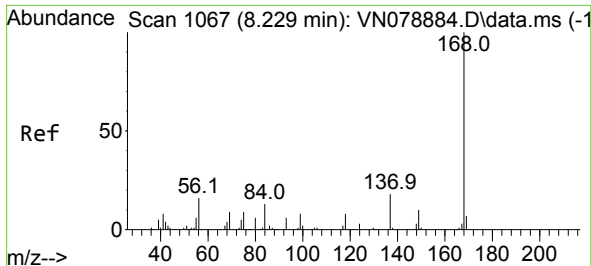
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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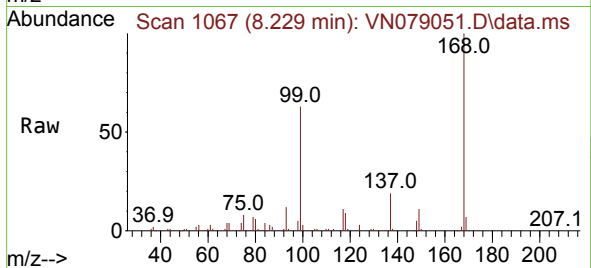
Quant Time: Aug 25 23:04:51 2023
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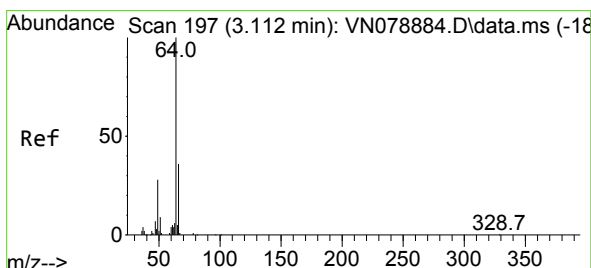
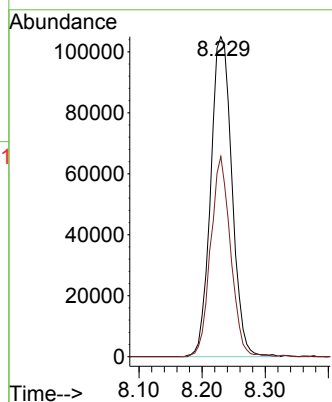
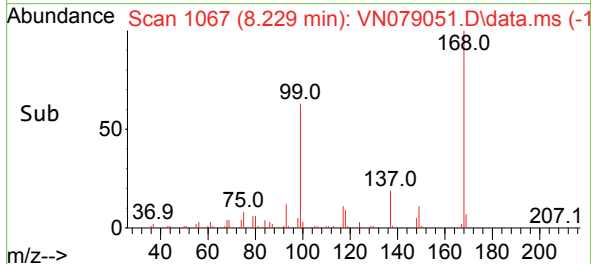


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Instrument :
MSVOA_N
ClientSampleId :

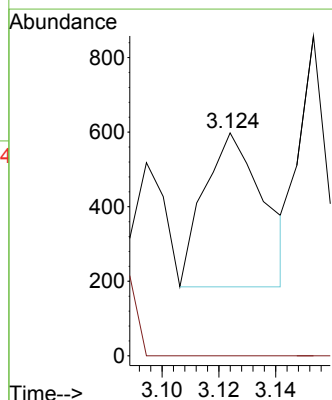
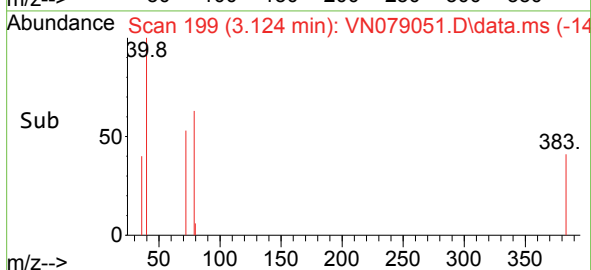
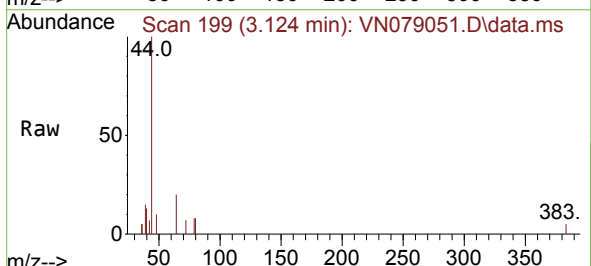


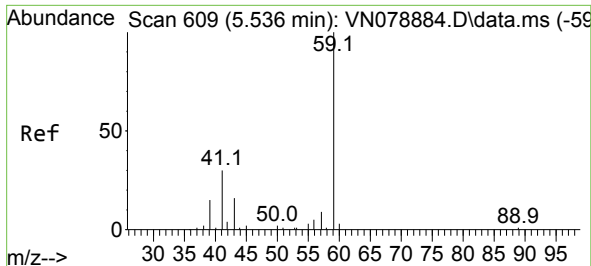
Tgt Ion:168 Resp: 245604
Ion Ratio Lower Upper
168 100
99 62.5 53.0 79.6



#6
Chloroethane
Concen: 0.205 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

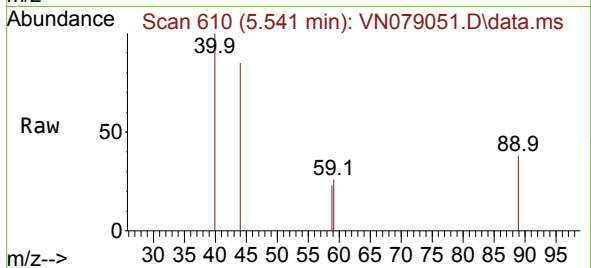
Tgt Ion: 64 Resp: 599
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



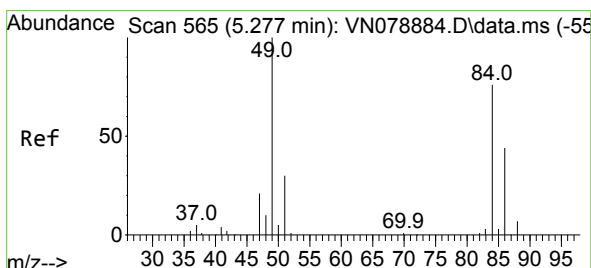
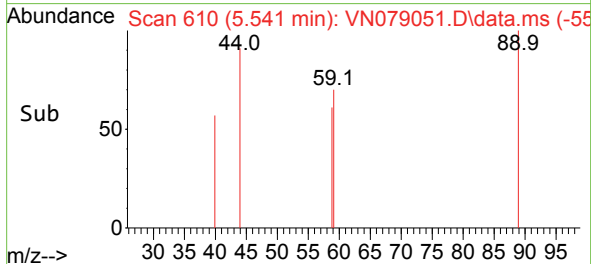
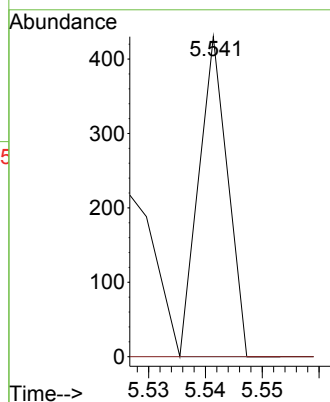


#11
Tert butyl alcohol
Concen: 0.237 ug/l
RT: 5.541 min Scan# 610
Delta R.T. -0.001 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Instrument :
MSVOA_N
ClientSampleId :

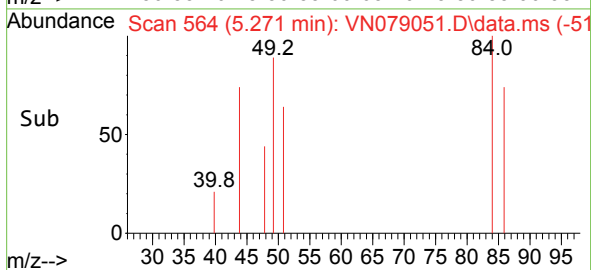
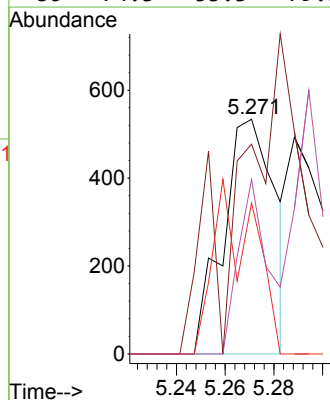
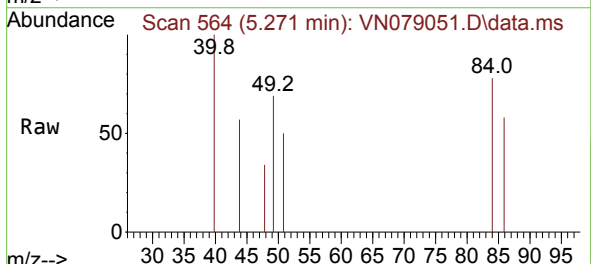


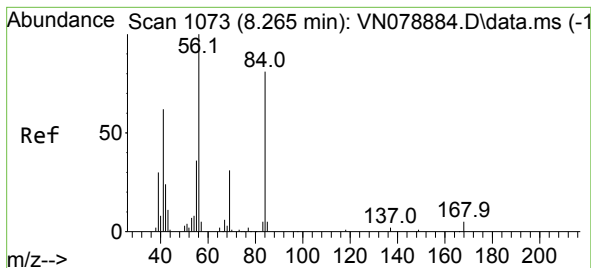
Tgt Ion: 59 Resp: 152
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#20
Methylene Chloride
Concen: 0.235 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.012 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion: 84 Resp: 790
Ion Ratio Lower Upper
84 100
49 89.3 79.7 119.5
51 64.2 25.2 37.8#
86 74.3 53.3 79.9





#31

Cyclohexane

Concen: Below Cal

RT: 8.229 min Scan# 1067

Delta R.T. -0.036 min

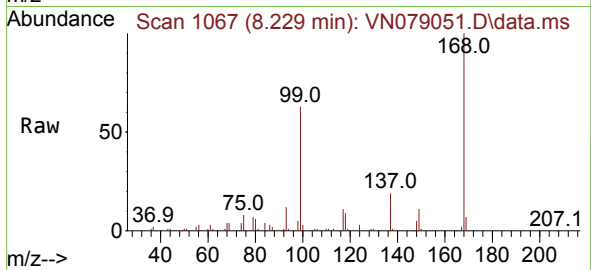
Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :



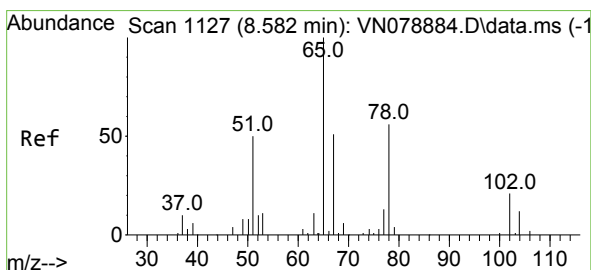
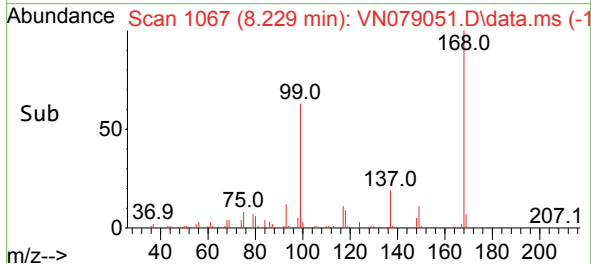
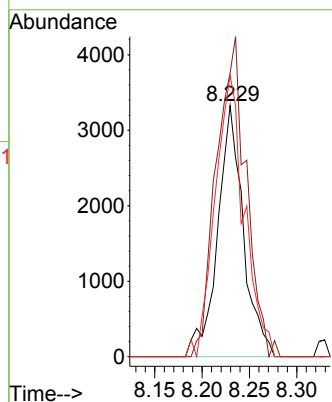
Tgt Ion: 56 Resp: 6274

Ion Ratio Lower Upper

56 100

69 113.0 26.8 40.2#

84 117.6 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 46.566 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079051.D

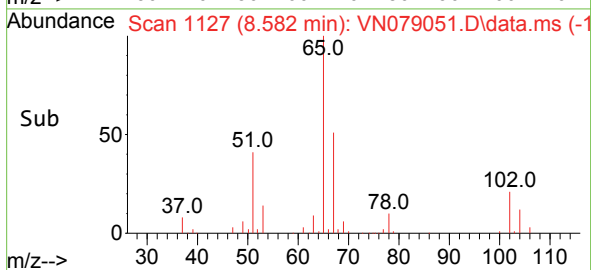
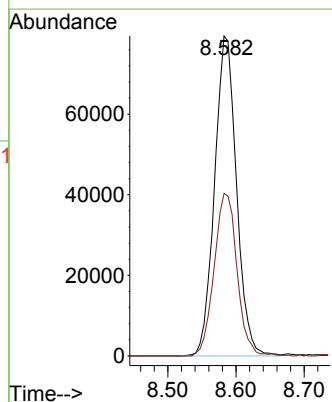
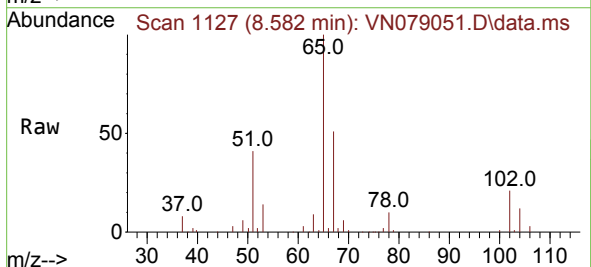
Acq: 25 Aug 2023 15:35

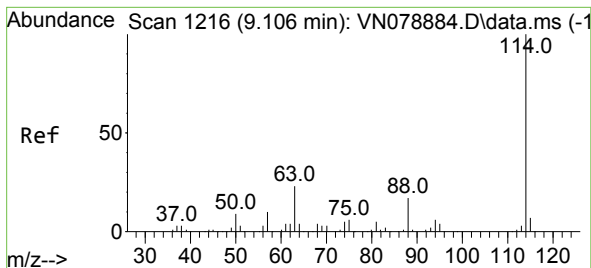
Tgt Ion: 65 Resp: 177966

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

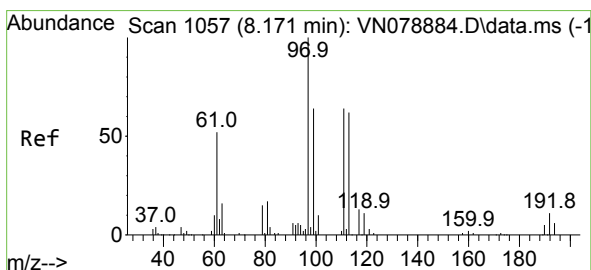
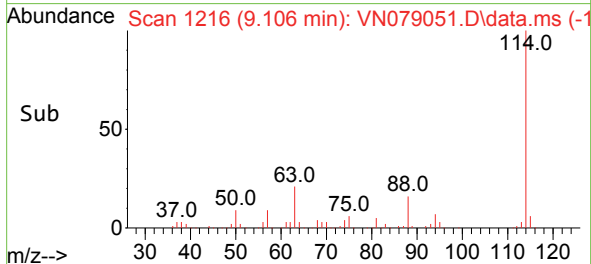
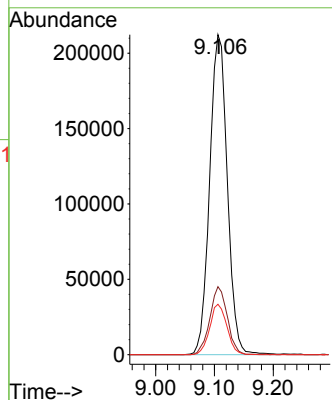
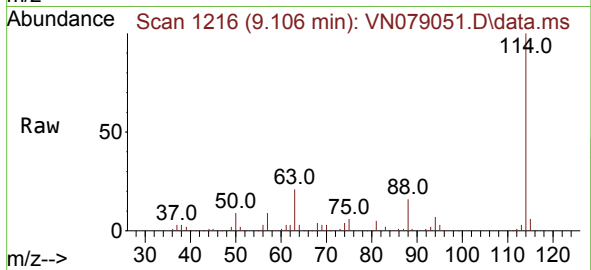
Tgt Ion:114 Resp: 443088

Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 15.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.731 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

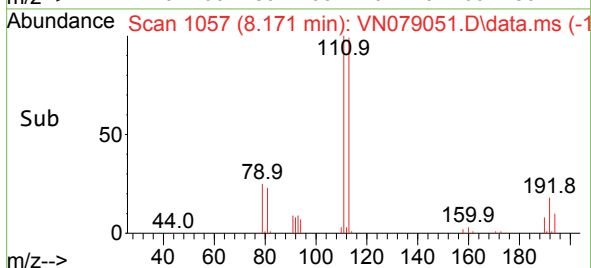
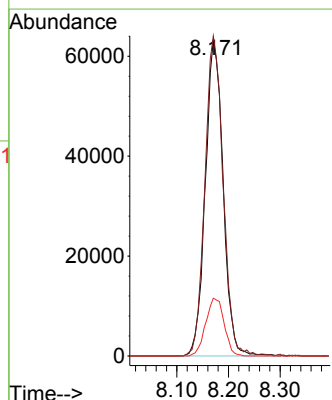
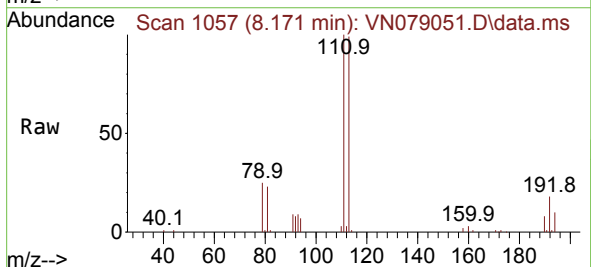
Tgt Ion:113 Resp: 151312

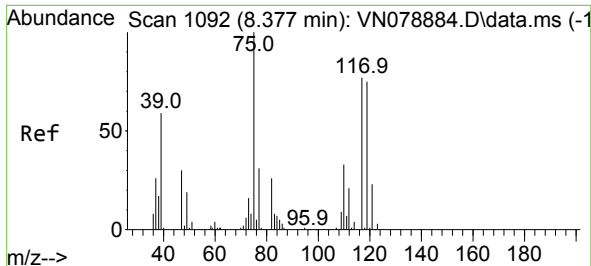
Ion Ratio Lower Upper

113 100

111 103.1 82.6 123.8

192 18.9 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.779 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

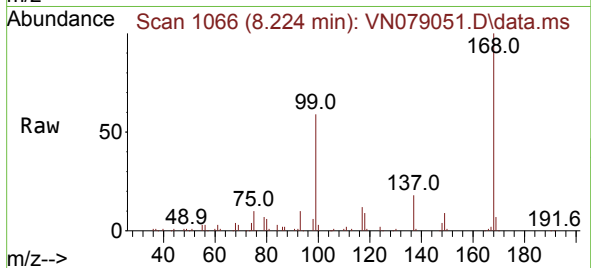
Lab File: VN079051.D

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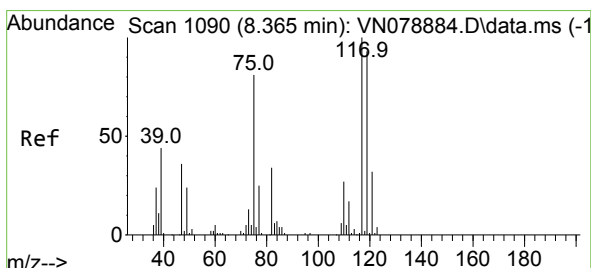
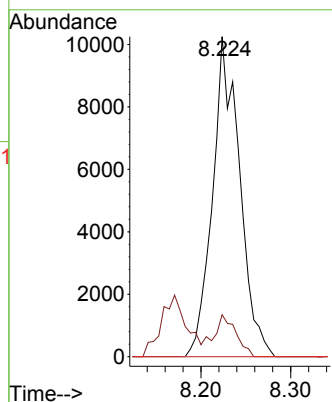
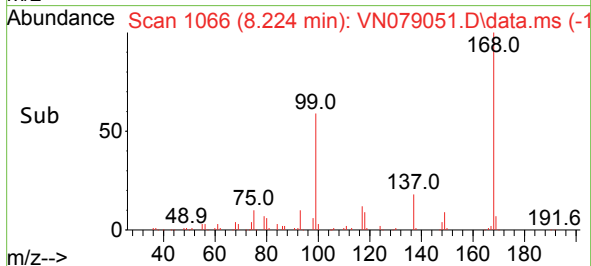
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 21440
Ion Ratio	Lower Upper
75	100
110	8.9 19.1 57.3#
77	0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.712 ug/l

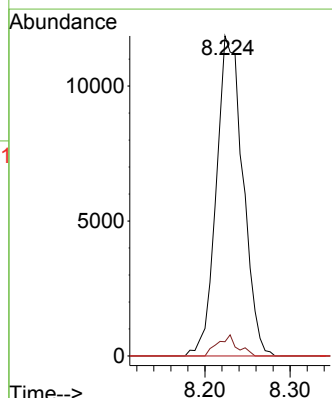
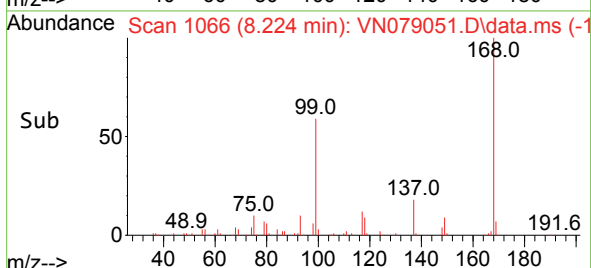
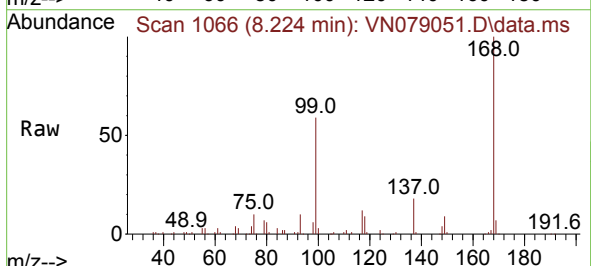
RT: 8.224 min Scan# 1066

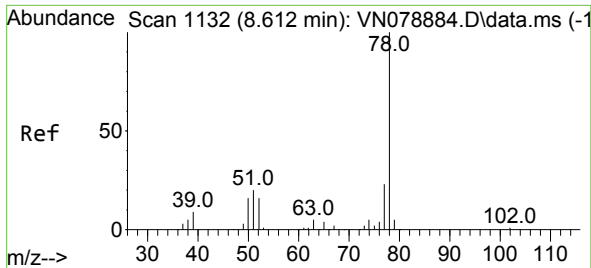
Delta R.T. -0.147 min

Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

Tgt Ion: 117	Resp: 25680
Ion Ratio	Lower Upper
117	100
119	4.4 77.3 115.9#
121	0.0 23.3 34.9#

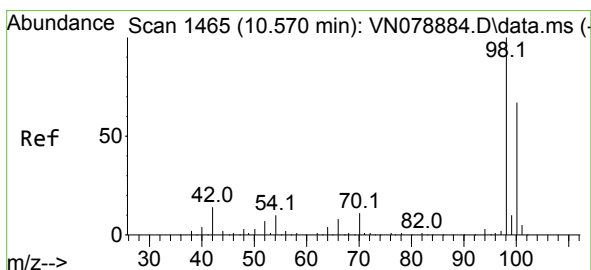
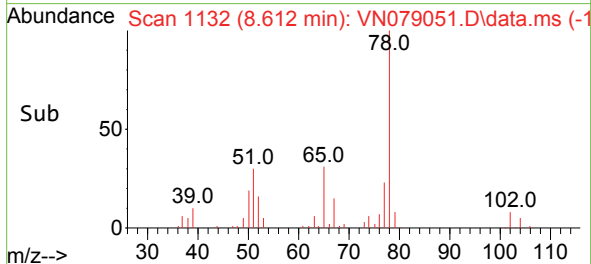
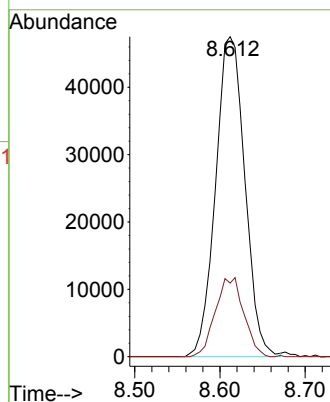
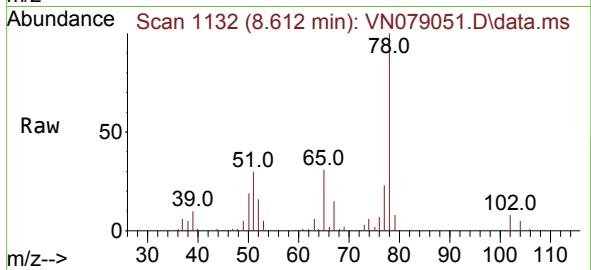




#40
Benzene
Concen: 8.558 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

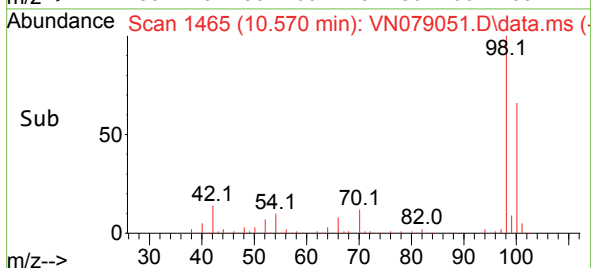
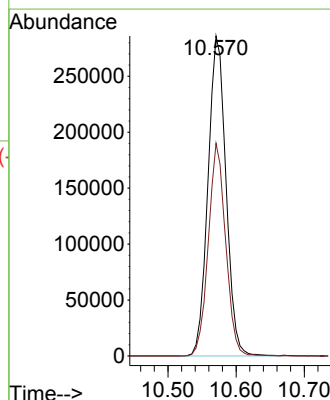
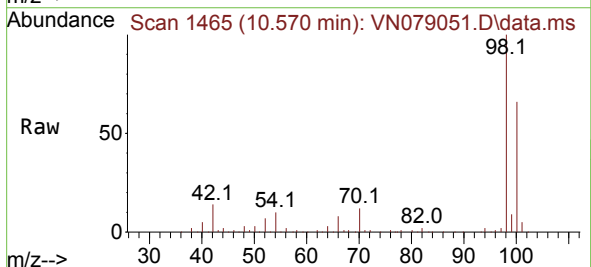
Instrument :
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ClientSampleId :

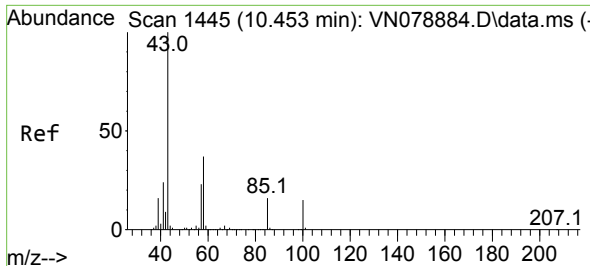
Tgt Ion: 78 Resp: 113486
Ion Ratio Lower Upper
78 100
77 23.0 19.0 28.6



#50
Toluene-d8
Concen: 47.435 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion: 98 Resp: 525327
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0

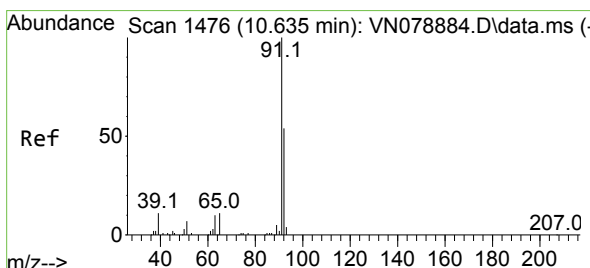
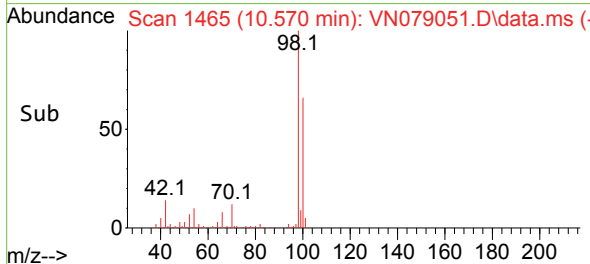
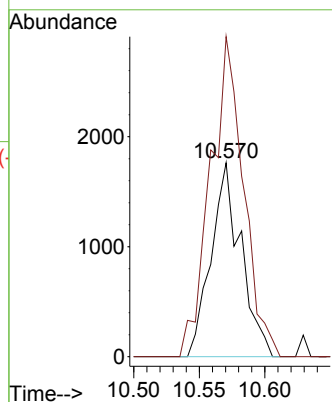
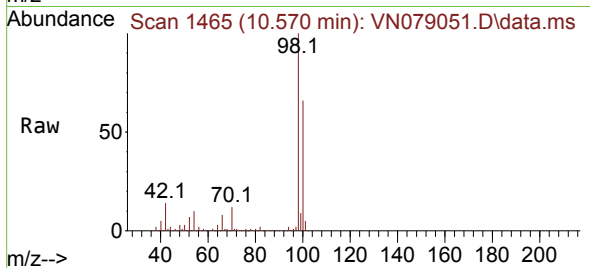




#51
4-Methyl-2-Pentanone
Concen: 0.530 ug/l
RT: 10.570 min Scan# 1445
Delta R.T. 0.117 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

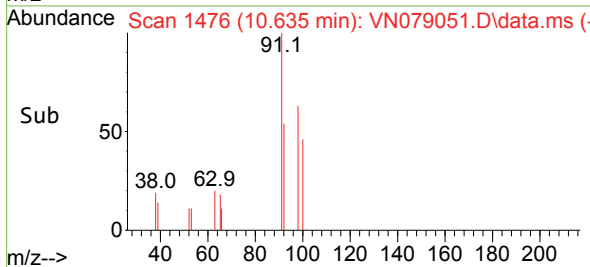
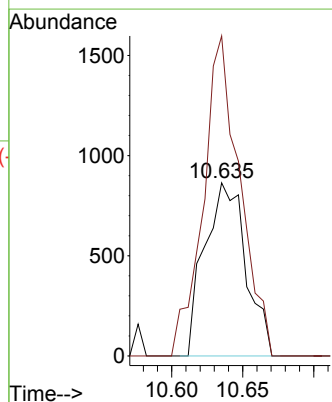
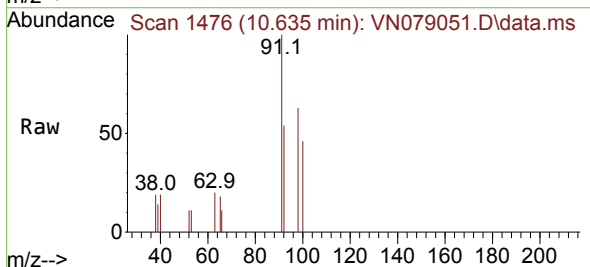
Instrument :
MSVOA_N
ClientSampleId :

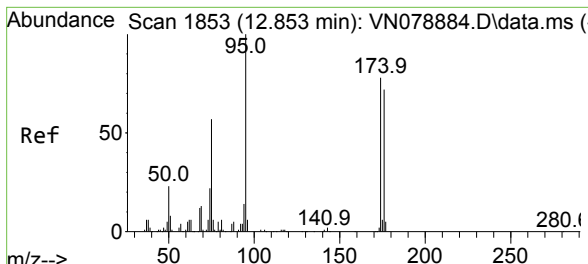
Tgt Ion: 43 Resp: 2789
Ion Ratio Lower Upper
43 100
58 183.4 36.6 54.8#



#52
Toluene
Concen: 0.214 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion: 92 Resp: 1742
Ion Ratio Lower Upper
92 100
91 164.5 137.4 206.0

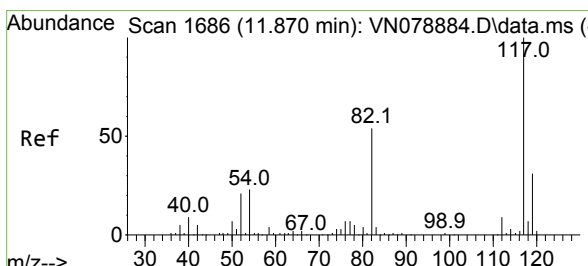
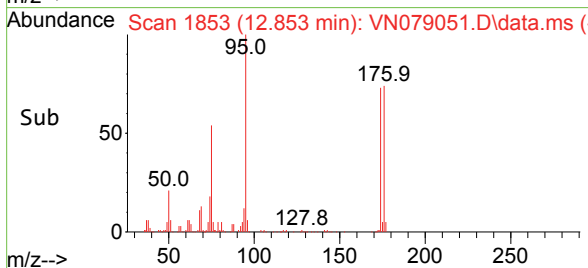
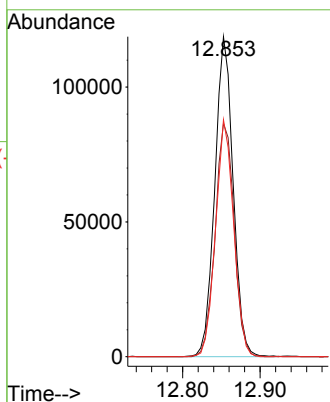
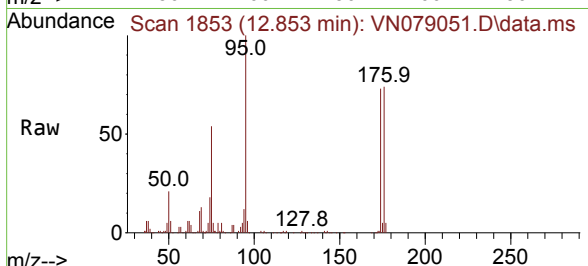




#62
4-Bromofluorobenzene
Concen: 53.971 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

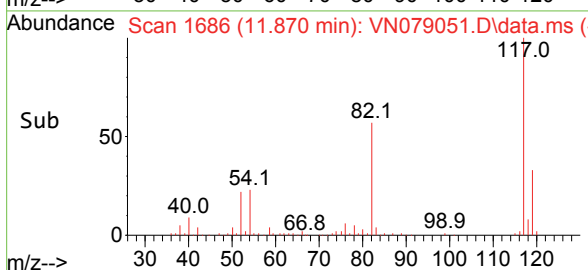
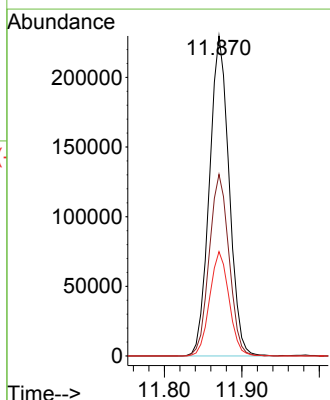
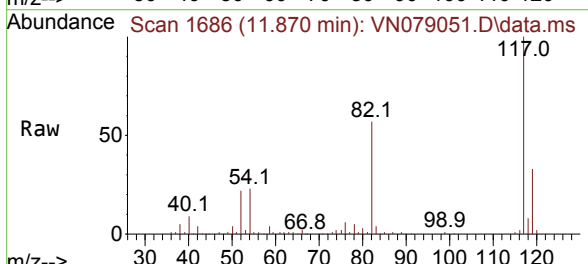
Instrument :
MSVOA_N
ClientSampleId :

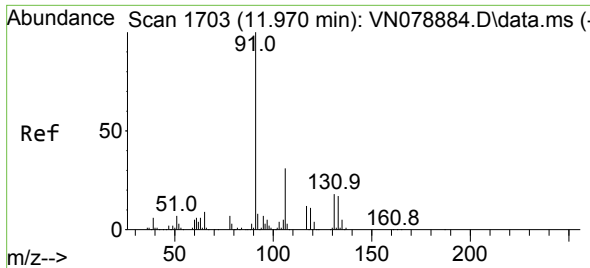
Tgt Ion:	95	Resp:	195370
Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	143.8
176	73.2	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion:	117	Resp:	405186
Ion	Ratio	Lower	Upper
117	100		
82	56.8	44.0	66.0
119	32.6	25.6	38.4





#67

Ethyl Benzene

Concen: 35.611 ug/l

RT: 11.970 min Scan# 1703

Delta R.T. -0.001 min

Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

Instrument :

MSVOA_N

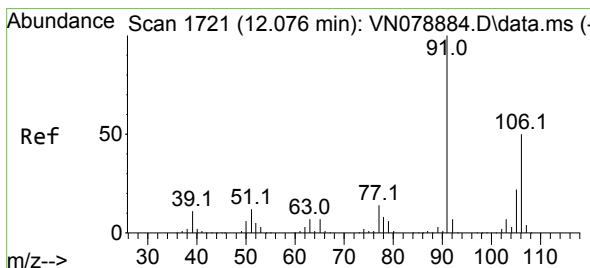
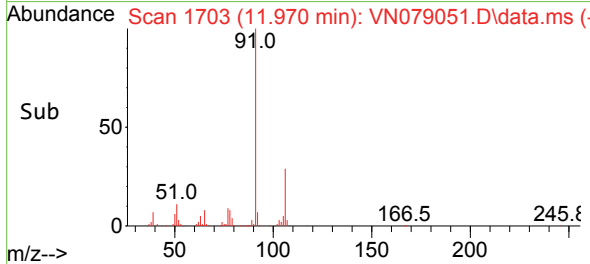
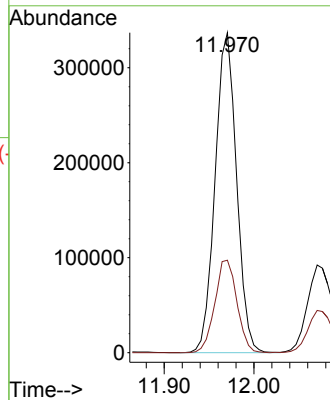
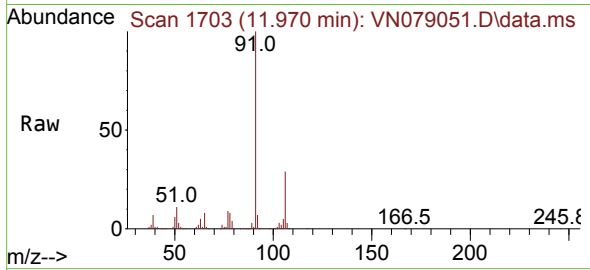
ClientSampleId :

Tgt Ion: 91 Resp: 558547

Ion Ratio Lower Upper

91 100

106 28.9 25.6 38.4



#68

m/p-Xylenes

Concen: 14.735 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.006 min

Lab File: VN079051.D

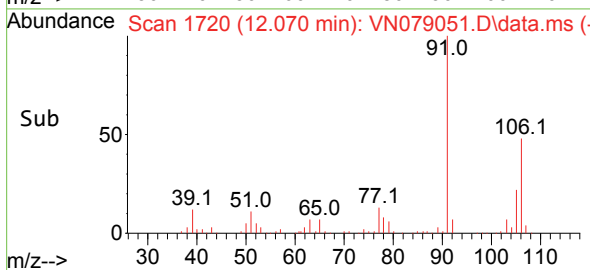
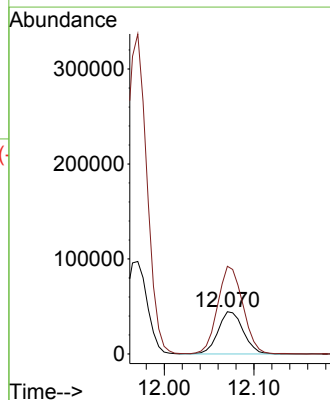
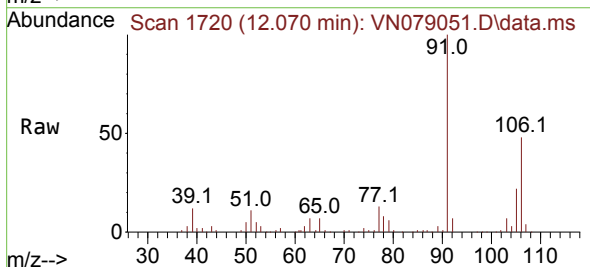
Acq: 25 Aug 2023 15:35

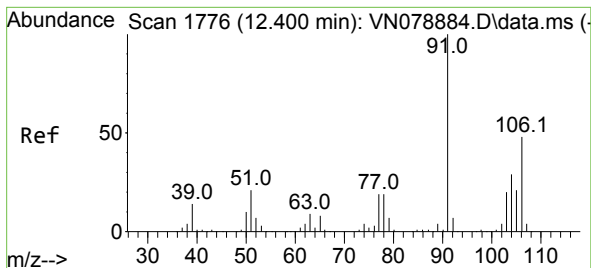
Tgt Ion:106 Resp: 86408

Ion Ratio Lower Upper

106 100

91 209.2 159.6 239.4





#69

o-Xylene

Concen: 10.963 ug/l

RT: 12.400 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

Instrument :

MSVOA_N

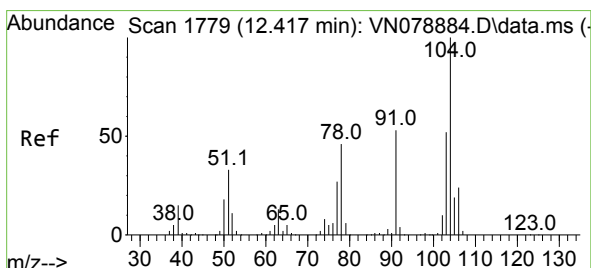
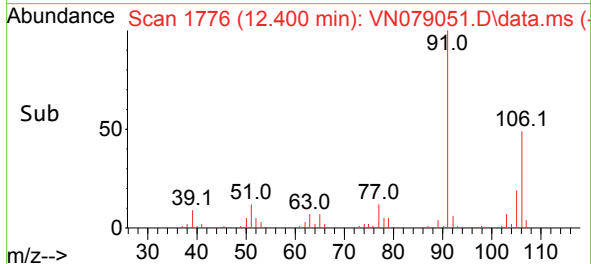
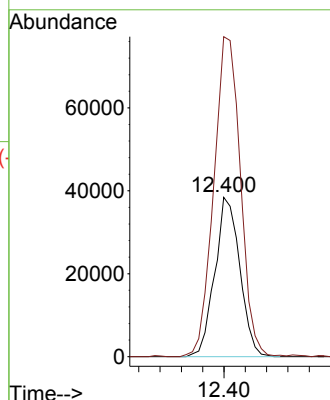
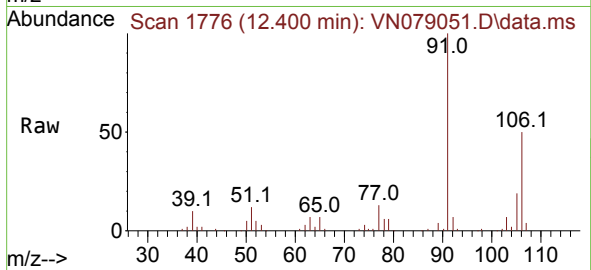
ClientSampleId :

Tgt Ion:106 Resp: 62540

Ion Ratio Lower Upper

106 100

91 214.5 105.2 315.5



#70

Styrene

Concen: 0.386 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.012 min

Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

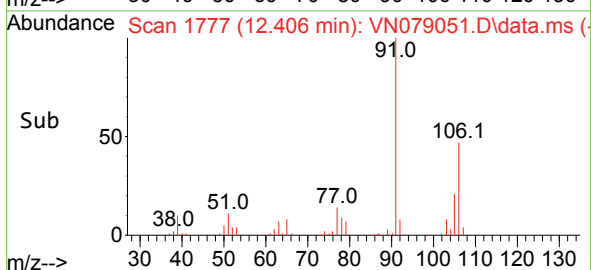
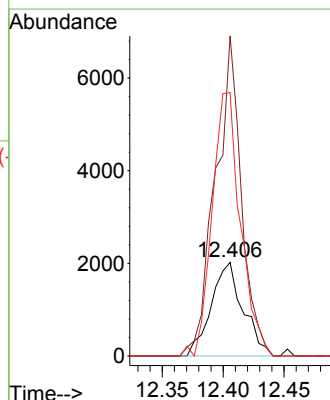
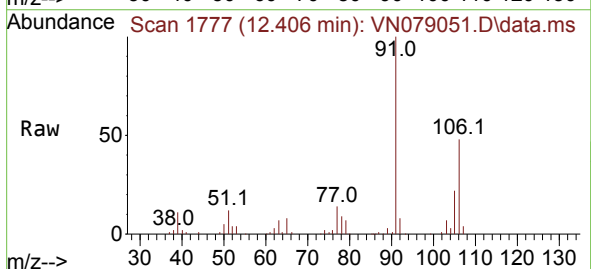
Tgt Ion:104 Resp: 3672

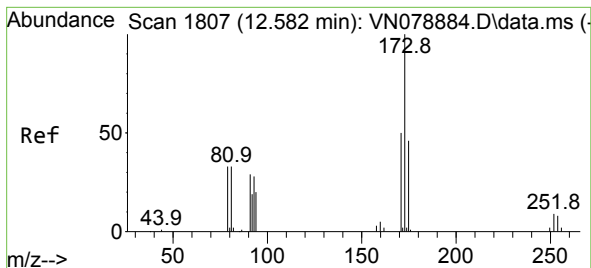
Ion Ratio Lower Upper

104 100

78 279.5 39.5 59.3#

103 250.5 43.2 64.8#





#71

Bromoform

Concen: 0.996 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079051.D

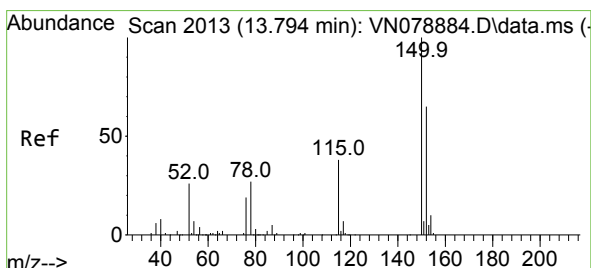
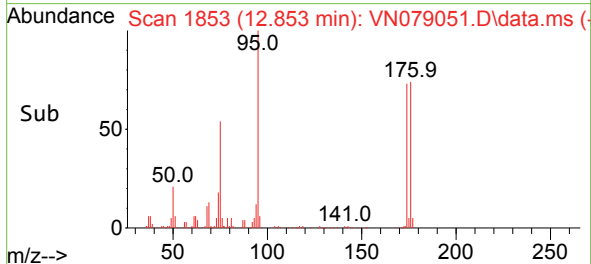
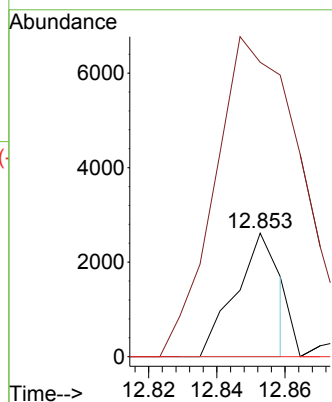
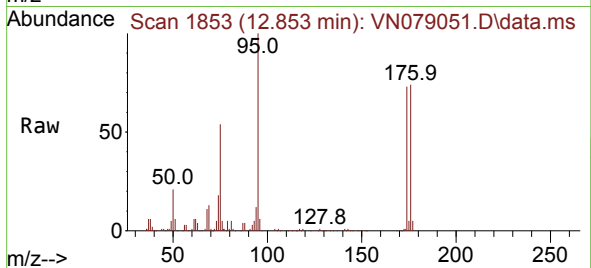
Acq: 25 Aug 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173 Resp: 2360
 Ion Ratio Lower Upper
 173 100
 175 390.3 24.3 73.0#
 254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

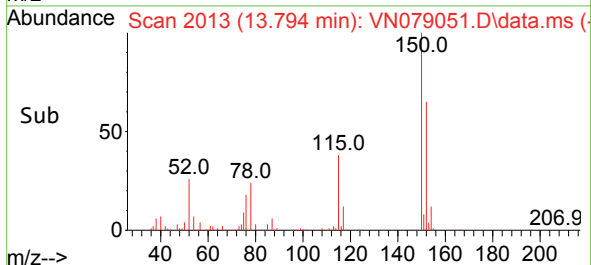
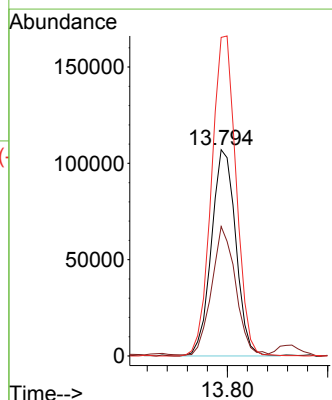
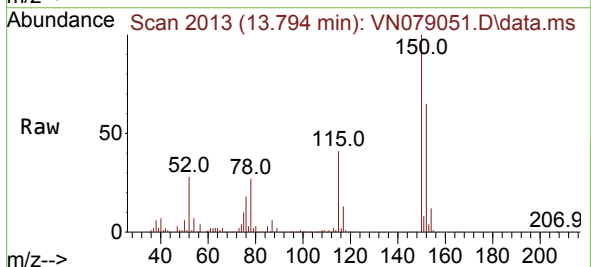
RT: 13.794 min Scan# 2013

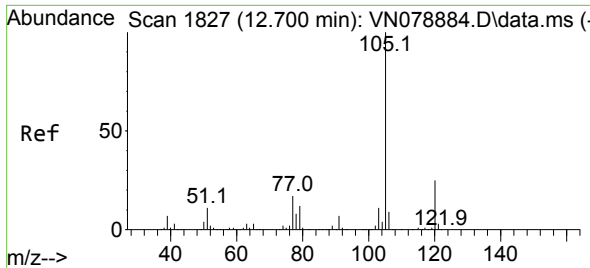
Delta R.T. -0.000 min

Lab File: VN079051.D

Acq: 25 Aug 2023 15:35

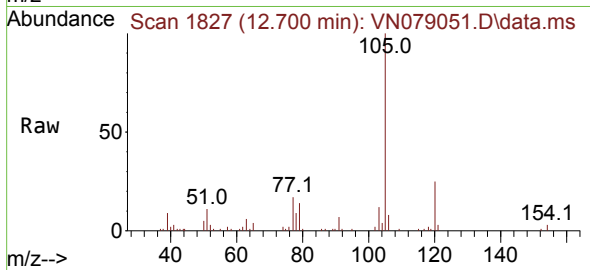
Tgt Ion:152 Resp: 180793
 Ion Ratio Lower Upper
 152 100
 115 60.7 32.3 96.8
 150 156.9 0.0 355.8



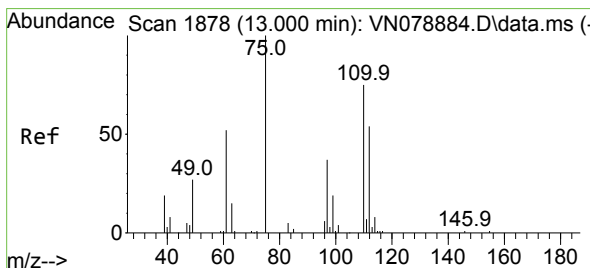
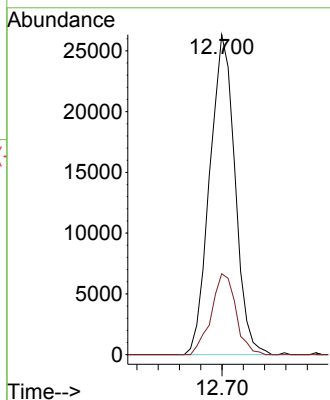
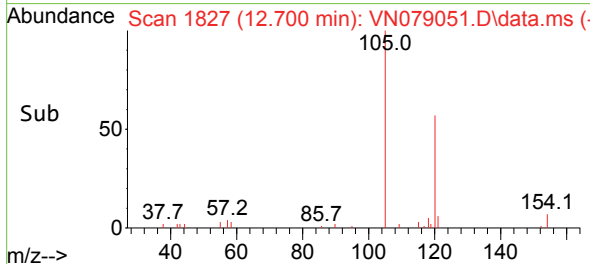


#73
Isopropylbenzene
Concen: 2.871 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. -0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Instrument :
MSVOA_N
ClientSampleId :

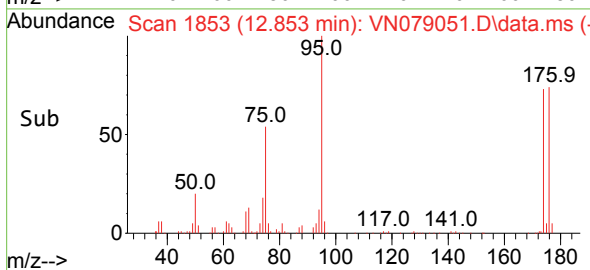
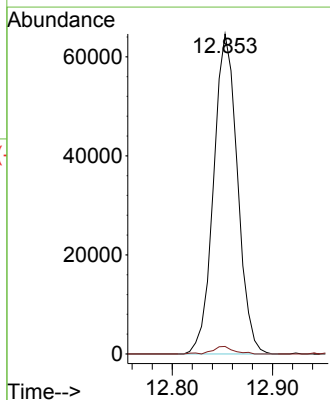
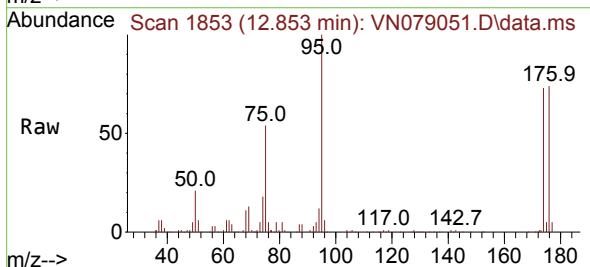


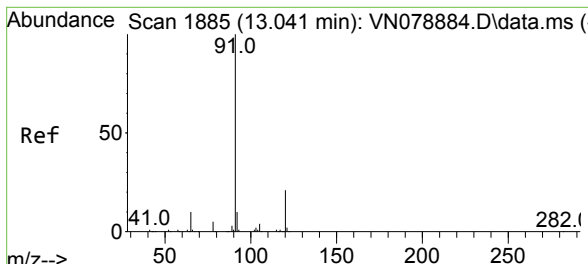
Tgt Ion:105 Resp: 43274
Ion Ratio Lower Upper
105 100
120 24.6 13.1 39.1



#76
1,2,3-Trichloropropane
Concen: 24.519 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion: 75 Resp: 106810
Ion Ratio Lower Upper
75 100
77 2.1 84.5 253.5#

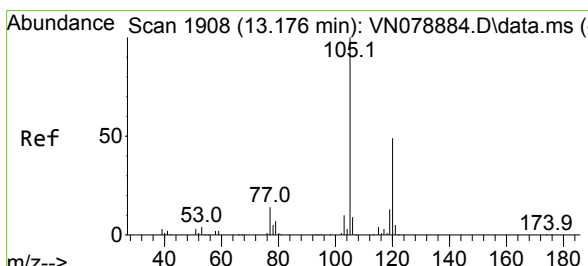
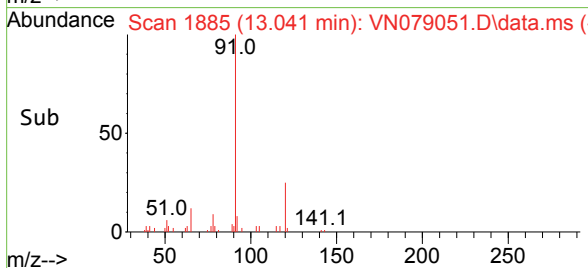
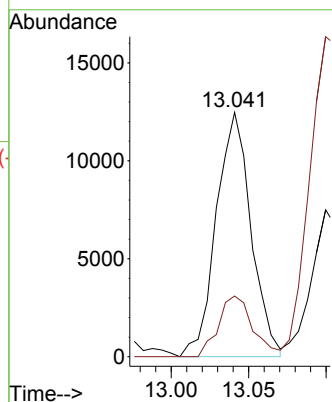
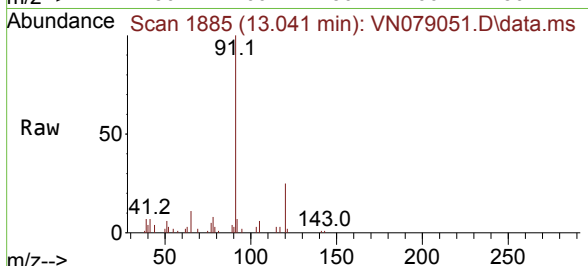




#78
n-propylbenzene
Concen: 1.113 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

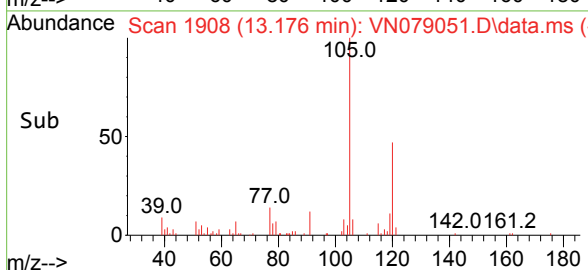
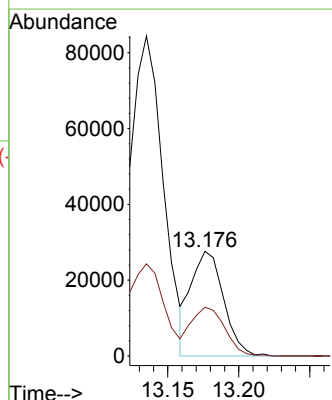
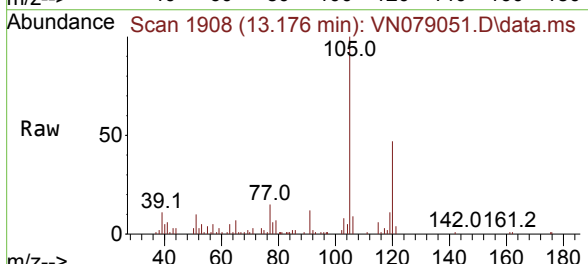
Instrument :
MSVOA_N
ClientSampleId :

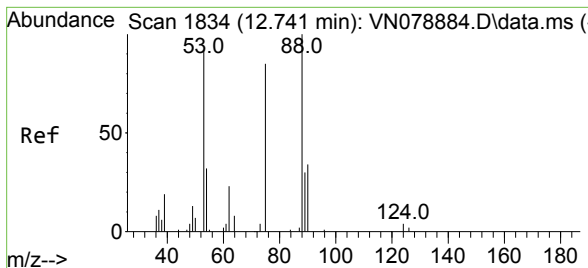
Tgt Ion: 91 Resp: 19449
Ion Ratio Lower Upper
91 100
120 24.6 11.5 34.4



#80
1,3,5-Trimethylbenzene
Concen: 3.689 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion:105 Resp: 44072
Ion Ratio Lower Upper
105 100
120 48.4 24.1 72.3

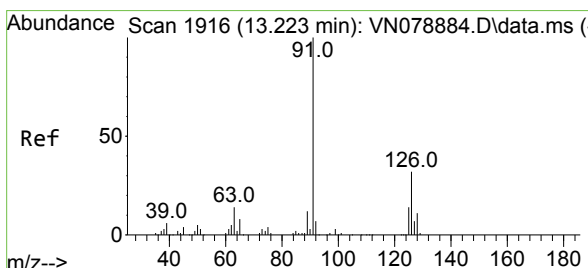
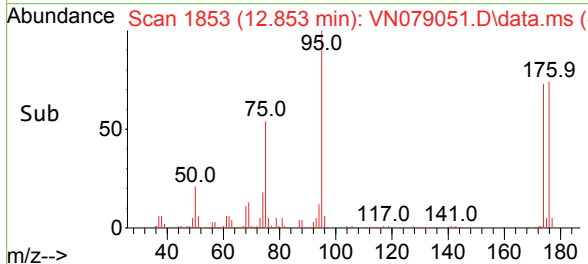
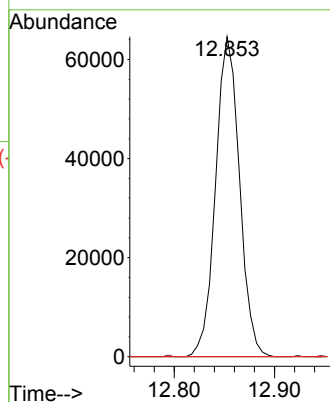
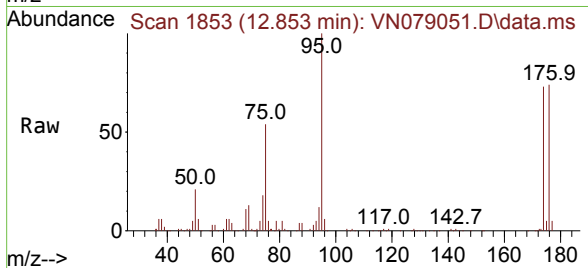




#81
trans-1,4-Dichloro-2-butene
Concen: 62.635 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

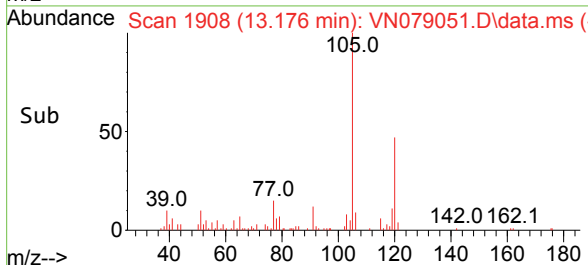
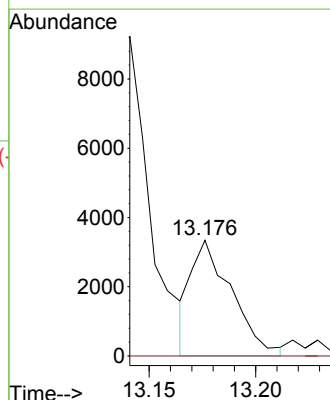
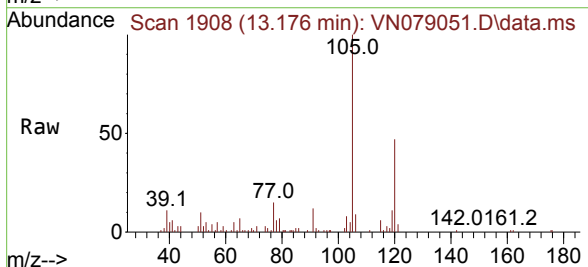
Instrument :
MSVOA_N
ClientSampleId :

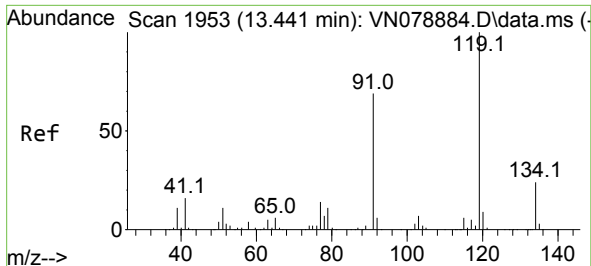
Tgt Ion: 75 Resp: 106810
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#82
4-Chlorotoluene
Concen: 0.418 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. -0.053 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

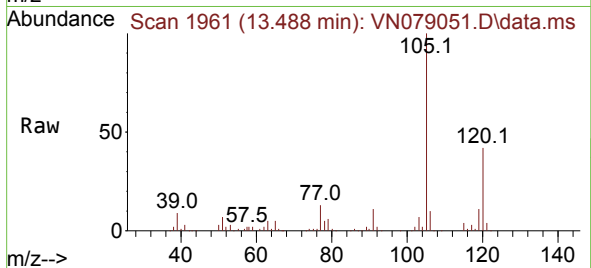
Tgt Ion: 91 Resp: 4439
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.0#



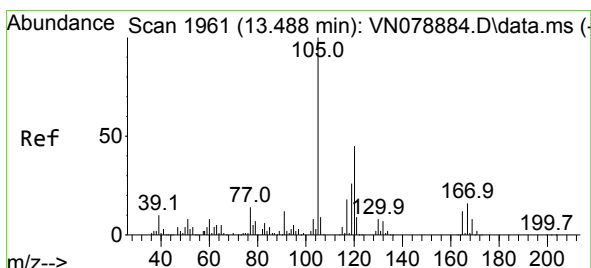
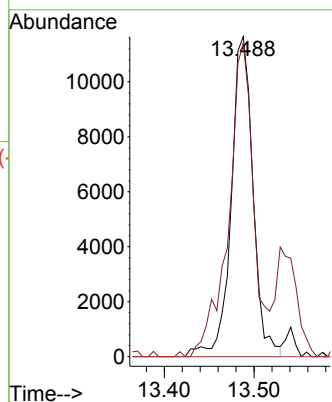
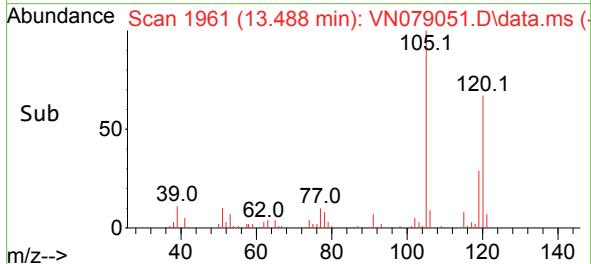


#83
tert-Butylbenzene
Concen: 1.966 ug/l
RT: 13.488 min Scan# 1953
Delta R.T. 0.047 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

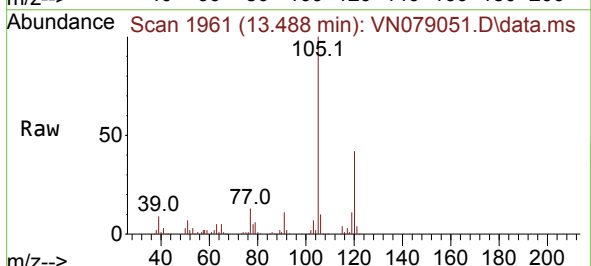
Instrument :
MSVOA_N
ClientSampleId :



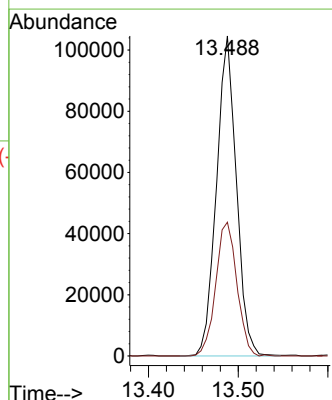
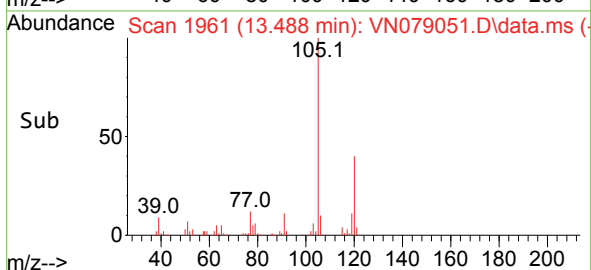
Tgt Ion:119 Resp: 19738
Ion Ratio Lower Upper
119 100
91 111.9 33.9 101.7#
134 0.0 13.2 39.6#

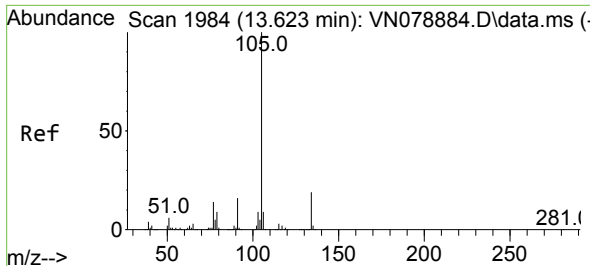


#84
1,2,4-Trimethylbenzene
Concen: 13.629 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35



Tgt Ion:105 Resp: 161216
Ion Ratio Lower Upper
105 100
120 44.4 22.0 66.0

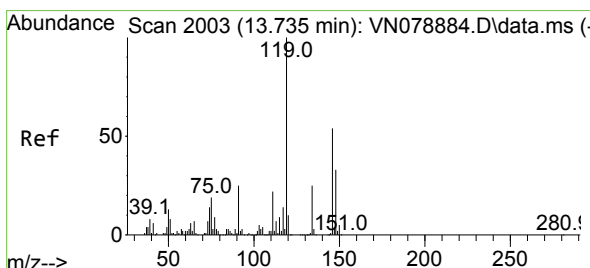
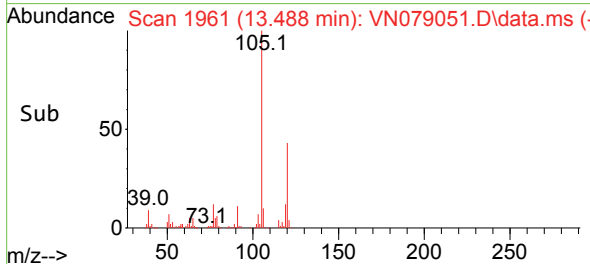
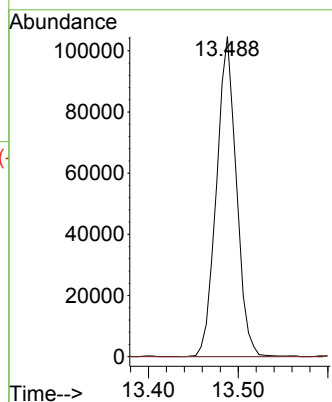
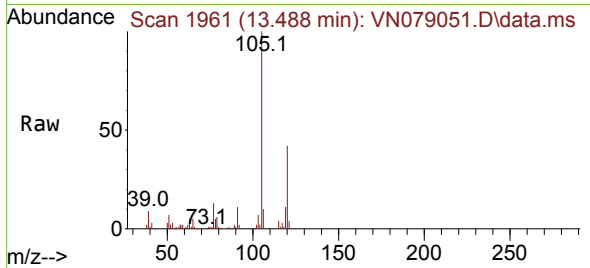




#85
 sec-Butylbenzene
 Concen: 11.671 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. -0.135 min
 Lab File: VN079051.D
 Acq: 25 Aug 2023 15:35

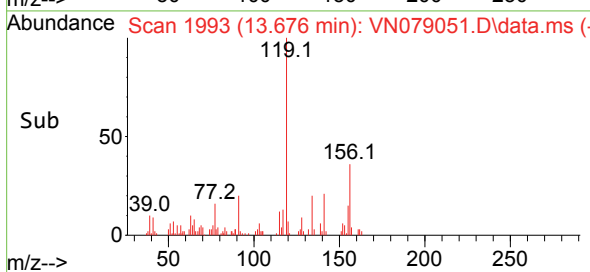
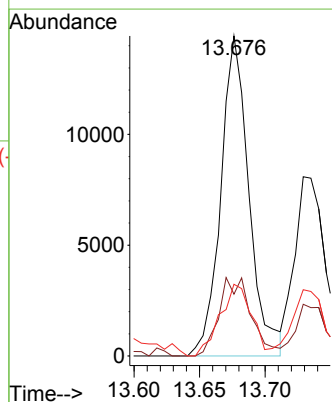
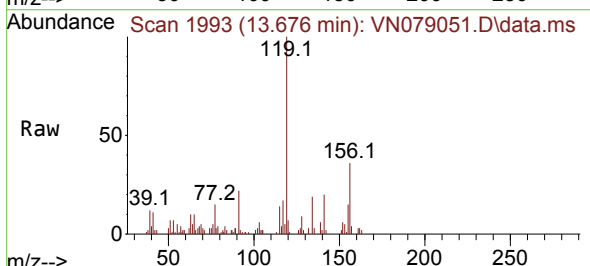
Instrument :
 MSVOA_N
 ClientSampleId :

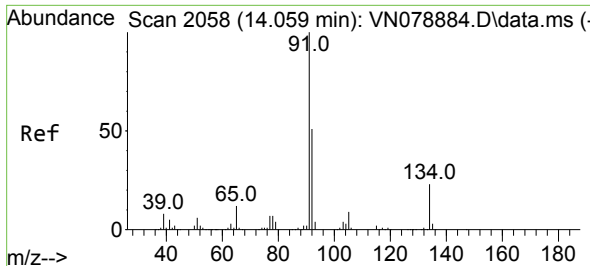
Tgt Ion:105 Resp: 161216
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#86
 p-Isopropyltoluene
 Concen: 1.959 ug/l
 RT: 13.676 min Scan# 1993
 Delta R.T. -0.059 min
 Lab File: VN079051.D
 Acq: 25 Aug 2023 15:35

Tgt Ion:119 Resp: 21625
 Ion Ratio Lower Upper
 119 100
 134 28.1 12.6 37.8
 91 25.4 12.4 37.2

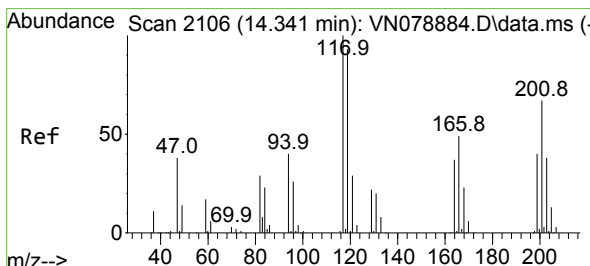
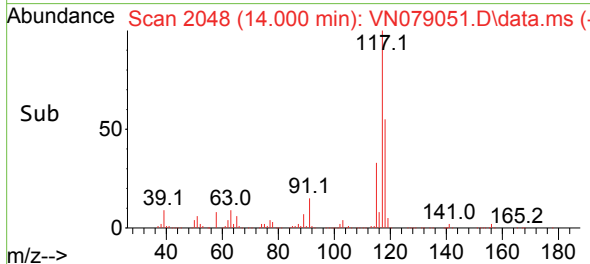
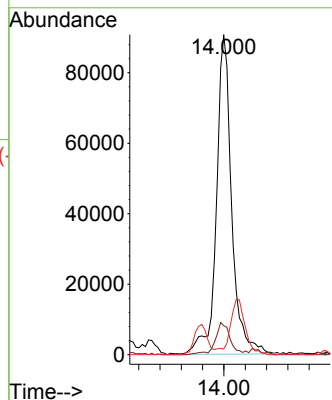
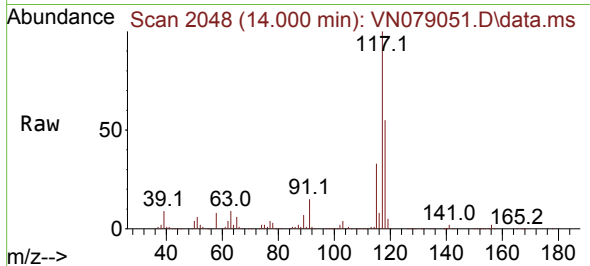




#89
n-Butylbenzene
Concen: 19.854 ug/l
RT: 14.000 min Scan# 2058
Delta R.T. -0.059 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

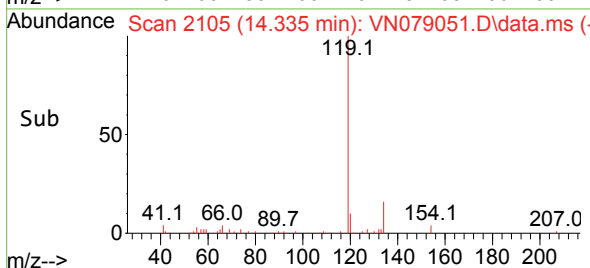
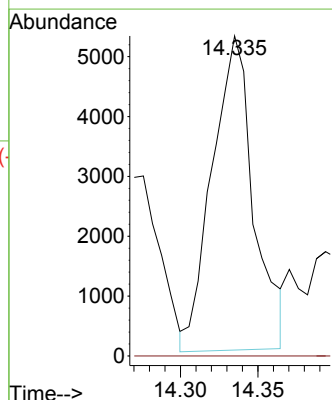
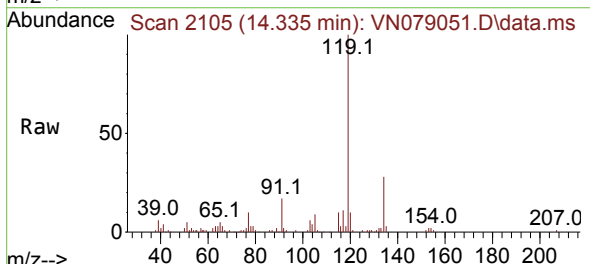
Instrument :
MSVOA_N
ClientSampleId :

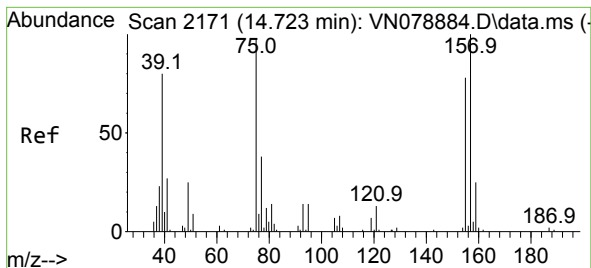
Tgt Ion: 91 Resp: 180323
Ion Ratio Lower Upper
91 100
92 9.7 26.4 79.0#
134 0.0 12.6 37.6#



#90
Hexachloroethane
Concen: 4.421 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion: 117 Resp: 9780
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

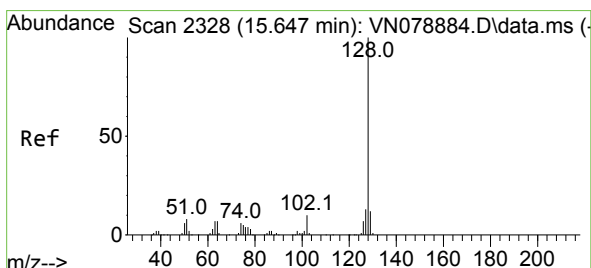
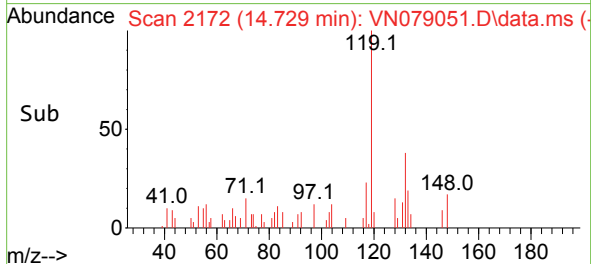
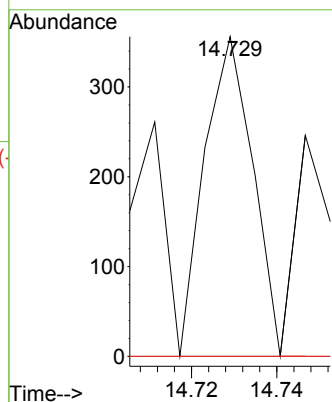
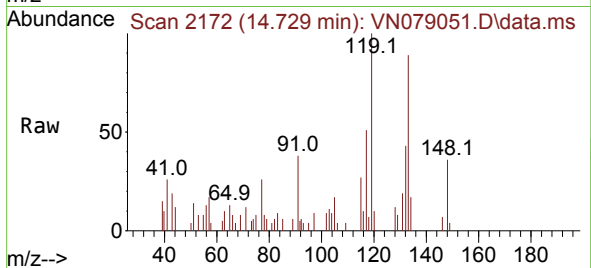




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.729 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 279
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#95
Naphthalene
Concen: 469.763 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN079051.D
Acq: 25 Aug 2023 15:35

Tgt Ion:128 Resp: 4103647
Ion Ratio Lower Upper
128 100
127 13.3 10.0 15.0
129 11.1 8.7 13.1

