

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090924\
 Data File : VN083709.D
 Acq On : 09 Sep 2024 10:26
 Operator : JC\MD
 Sample : VN0909WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

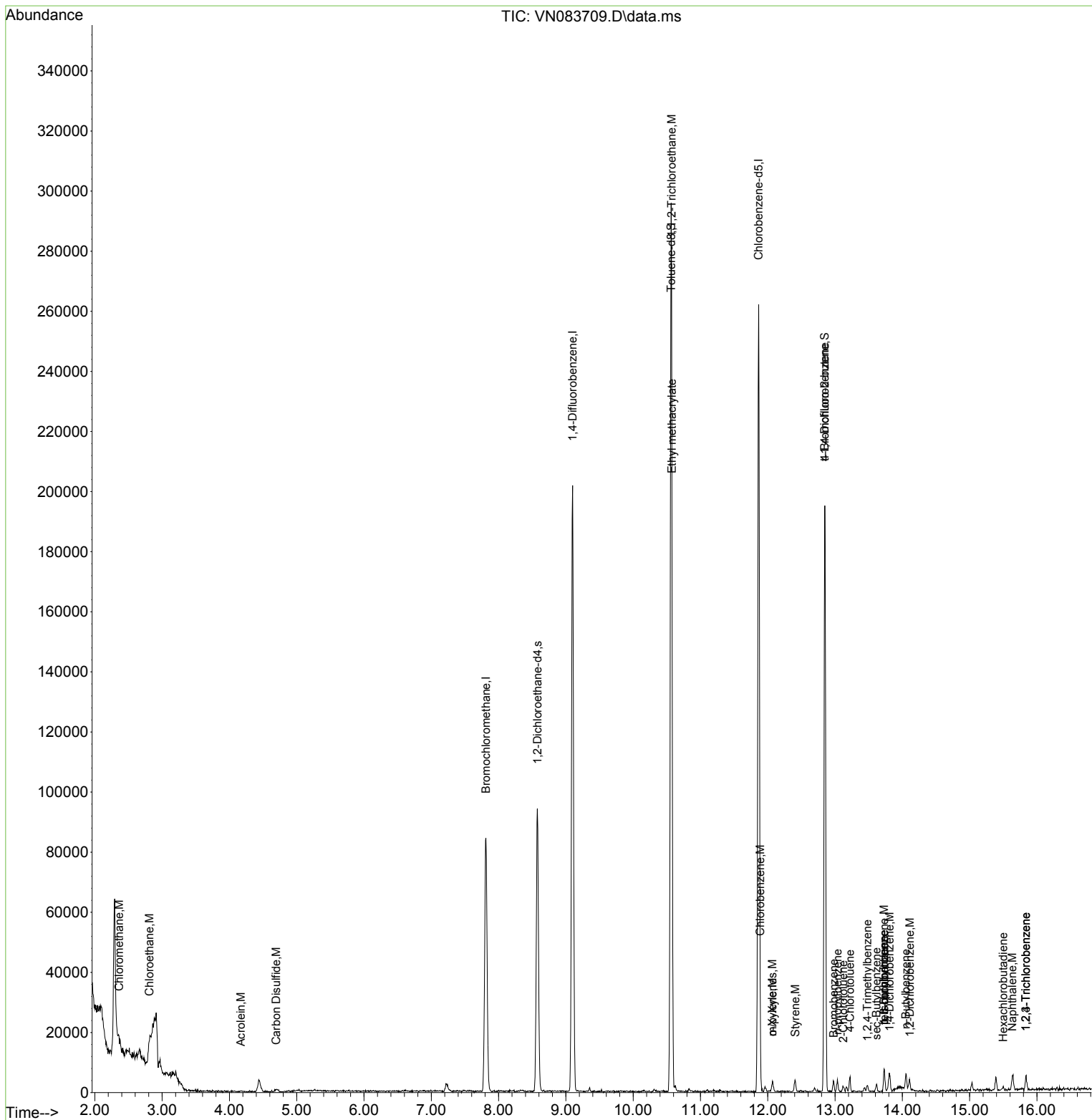
Quant Time: Sep 10 01:17:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

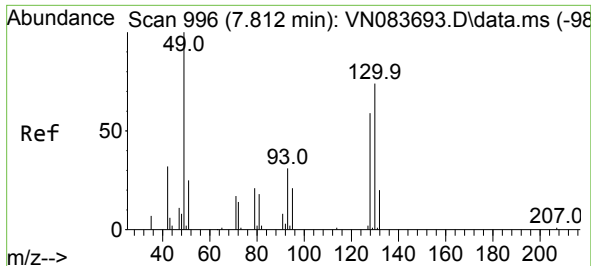
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	28424	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	165560	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	144268	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80589	31.018	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.400%			
60) 4-Bromofluorobenzene	12.847	95	69085	27.785	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.600%			
63) Toluene-d8	10.565	98	199602	29.880	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.600%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	963	0.487	ug/l	91
6) Chloroethane	2.812	64	989	0.726	ug/l	91
13) Acrolein	4.171	56	112	0.360	ug/l #	15
16) Carbon Disulfide	4.694	76	1899	0.380	ug/l #	78
50) 1,1,2-Trichloroethane	10.571	97	5972	3.385	ug/l #	1
51) Ethyl methacrylate	10.576	69	624	0.207	ug/l #	53
64) Chlorobenzene	11.888	112	1368	0.266	ug/l #	82
67) m/p-Xylenes	12.070	106	1552	0.447	ug/l	86
68) o-Xylene	12.070	106	1552	0.462	ug/l	79
69) Styrene	12.412	104	1574	0.277	ug/l #	89
73) Bromobenzene	12.982	156	818	0.402	ug/l	96
74) n-propylbenzene	13.035	91	3381	0.326	ug/l	79
75) 2-Chlorotoluene	13.123	91	1732	0.268	ug/l	89
77) t-1,4-Dichloro-2-butene	12.847	75	37431	41.734	ug/l #	12
78) 4-Chlorotoluene	13.223	91	3279	0.499	ug/l	81
79) tert-butylbenzene	13.729	119	1691	0.261	ug/l	54
80) 1,2,4-Trimethylbenzene	13.482	105	1640	0.219	ug/l	91
81) sec-Butylbenzene	13.617	105	2308	0.261	ug/l	84
82) p-Isopropyltoluene	13.729	119	1691	0.227	ug/l	94
83) 1,3-Dichlorobenzene	13.729	146	2130	0.544	ug/l	92
84) 1,4-Dichlorobenzene	13.812	146	2515	0.642	ug/l	96
85) n-Butylbenzene	14.053	91	3104	0.473	ug/l	91
87) 1,2-Dichlorobenzene	14.111	146	1423	0.374	ug/l	93
89) 1,2,4-Trichlorobenzene	15.835	180	1568	0.753	ug/l #	84
90) Hexachlorobutadiene	15.500	225	316	0.367	ug/l #	53
91) Naphthalene	15.635	128	5403	0.794	ug/l #	84
92) 1,2,3-Trichlorobenzene	15.835	180	1568	0.753	ug/l	84

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

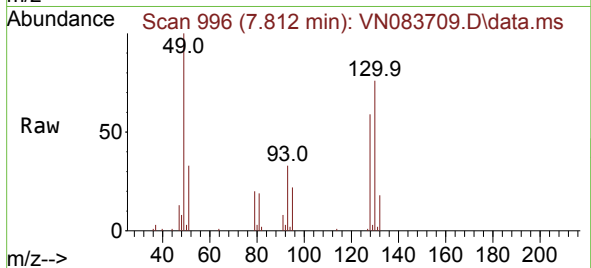
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
Response via : Initial Calibration



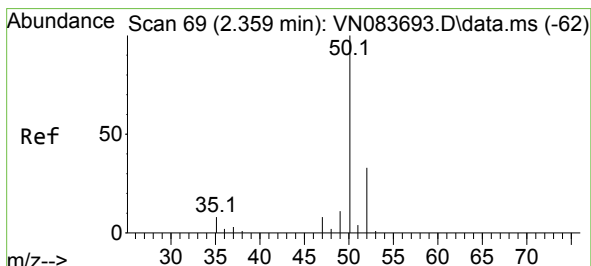
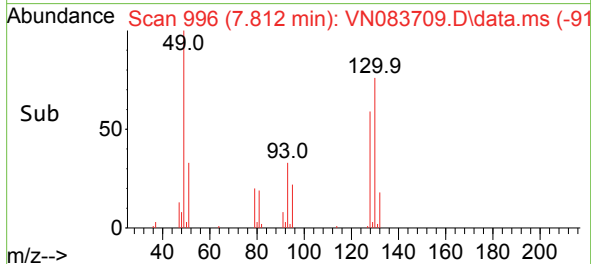
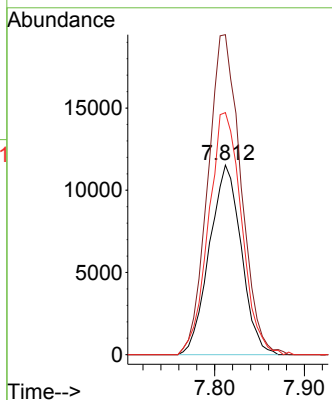


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :

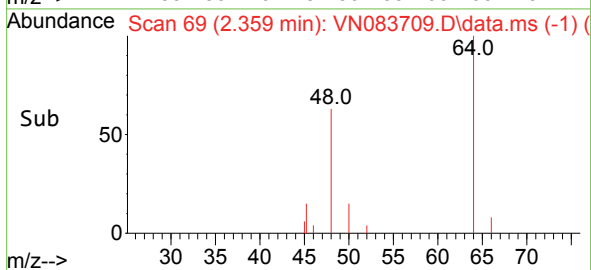
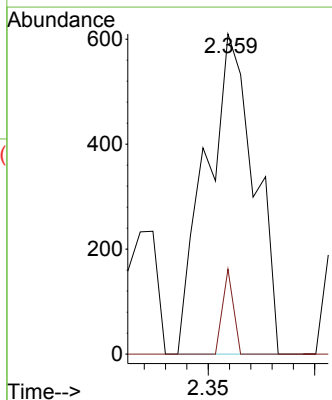
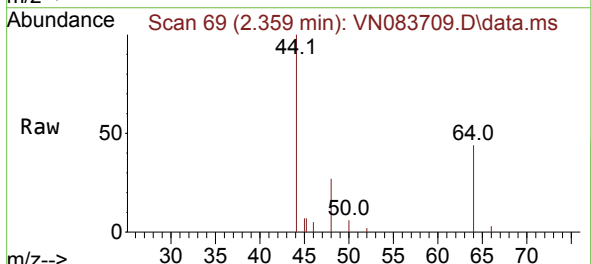


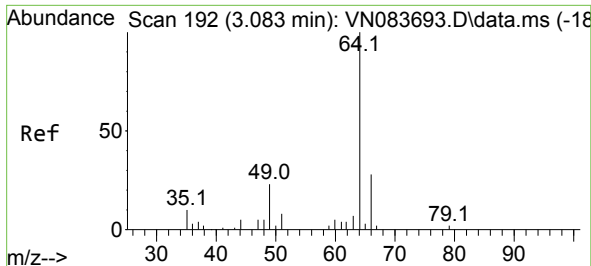
Tgt Ion	Ratio	Lower	Upper
128	100		
49	174.4	0.0	403.7
130	132.5	0.0	323.3



#3
Chloromethane
Concen: 0.487 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Tgt Ion	Ratio	Lower	Upper
50	100		
52	26.6	25.4	38.0

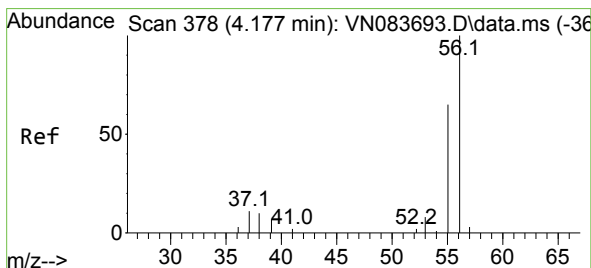
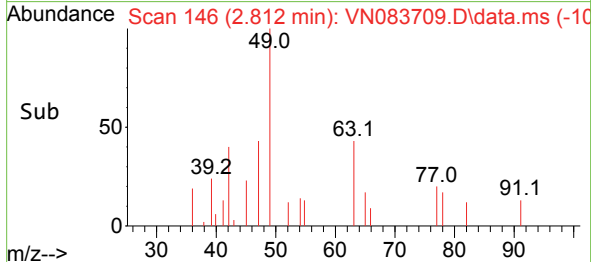
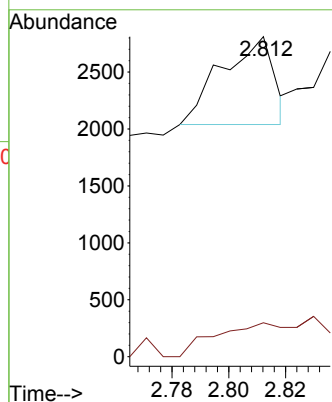
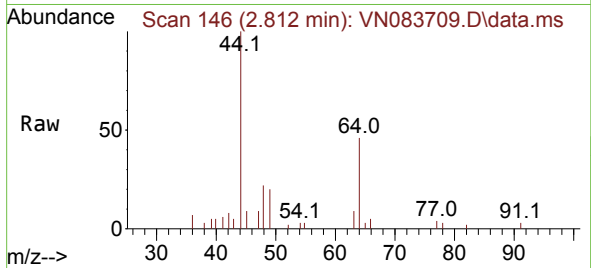




#6
Chloroethane
Concen: 0.726 ug/l
RT: 2.812 min Scan# 14
Delta R.T. -0.271 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

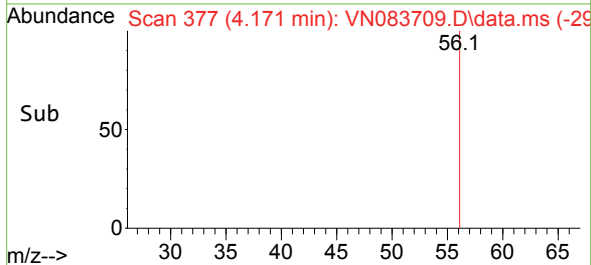
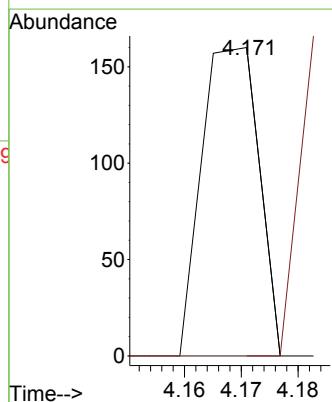
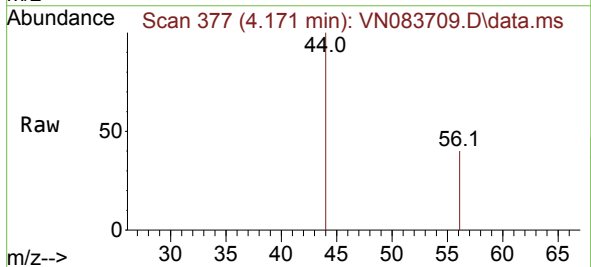
Instrument :
MSVOA_N
ClientSampleId :

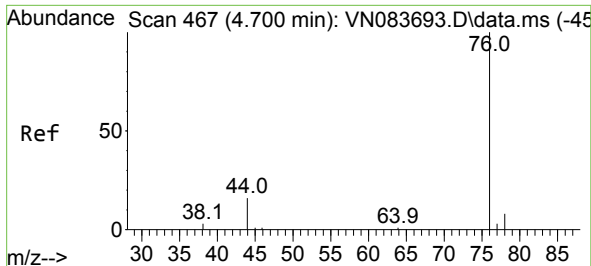
Tgt Ion: 64 Resp: 989
Ion Ratio Lower Upper
64 100
66 38.6 26.7 40.1



#13
Acrolein
Concen: 0.360 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Tgt Ion: 56 Resp: 112
Ion Ratio Lower Upper
56 100
55 0.0 55.5 83.3#

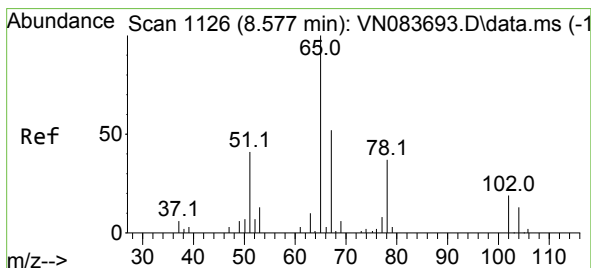
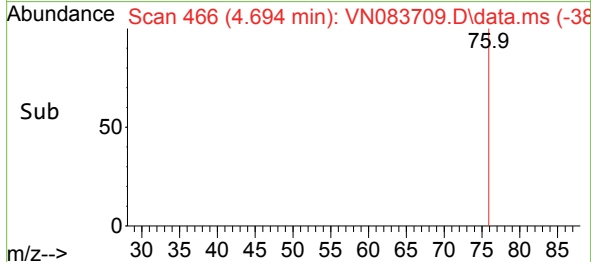
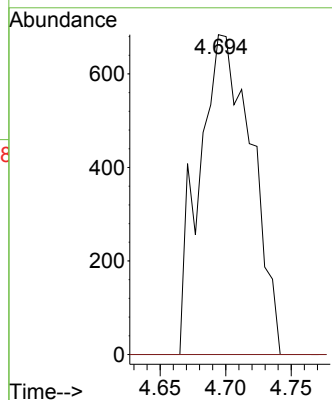
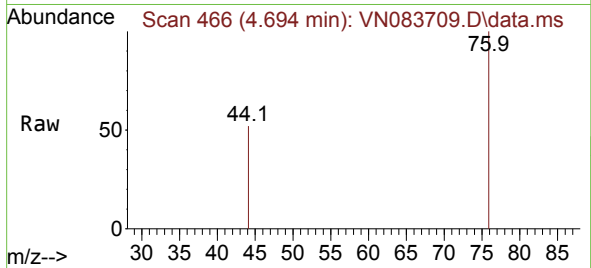




#16
Carbon Disulfide
Concen: 0.380 ug/l
RT: 4.694 min Scan# 466
Delta R.T. -0.006 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

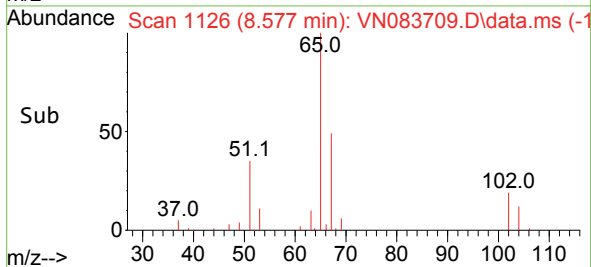
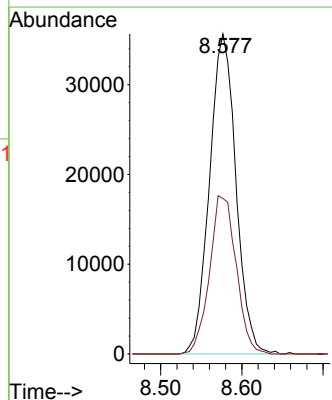
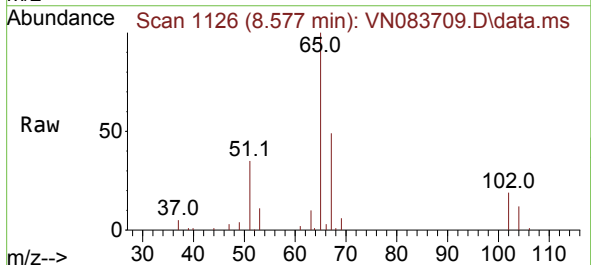
Instrument :
MSVOA_N
ClientSampleId :

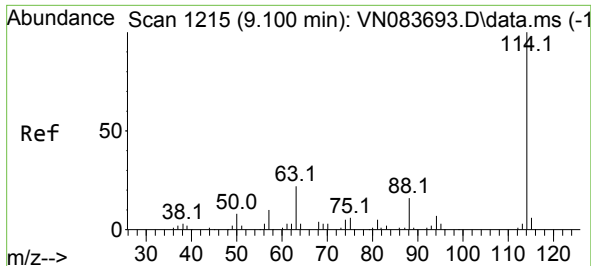
Tgt Ion: 76 Resp: 1899
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#



#27
1,2-Dichloroethane-d4
Concen: 31.018 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Tgt Ion: 65 Resp: 80589
Ion Ratio Lower Upper
65 100
67 49.7 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

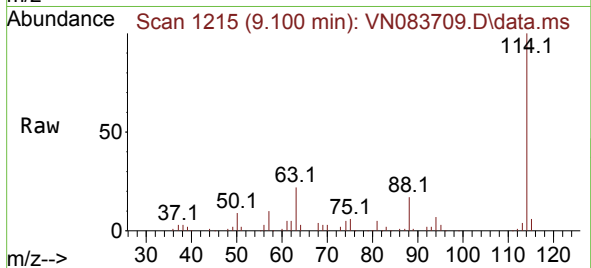
Lab File: VN083709.D

Acq: 09 Sep 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :



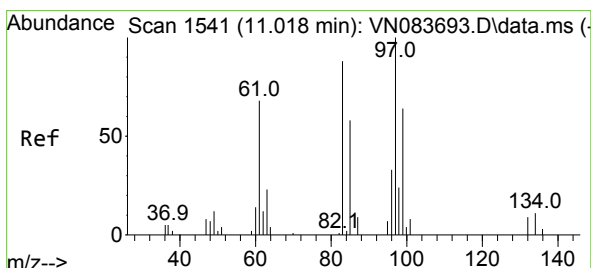
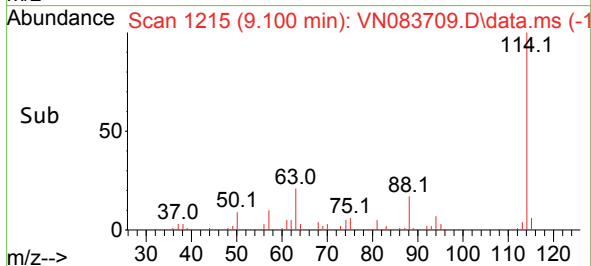
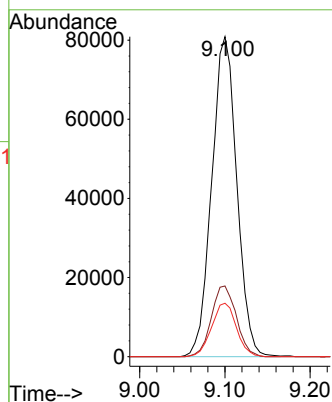
Tgt Ion:114 Resp: 165560

Ion Ratio Lower Upper

114 100

63 22.0 15.9 23.9

88 16.6 12.7 19.1



#50

1,1,2-Trichloroethane

Concen: 3.385 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.447 min

Lab File: VN083709.D

Acq: 09 Sep 2024 10:26

Tgt Ion: 97 Resp: 5972

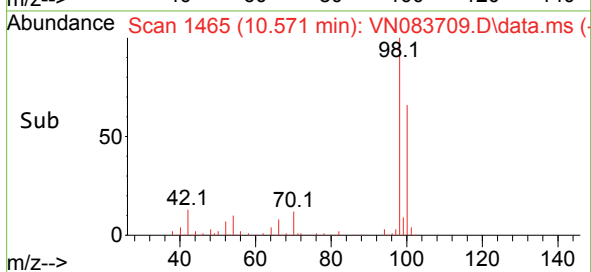
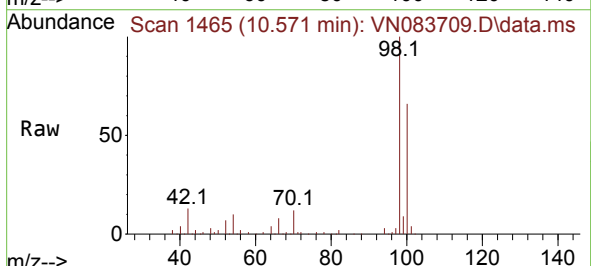
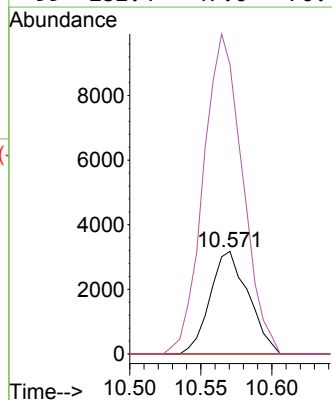
Ion Ratio Lower Upper

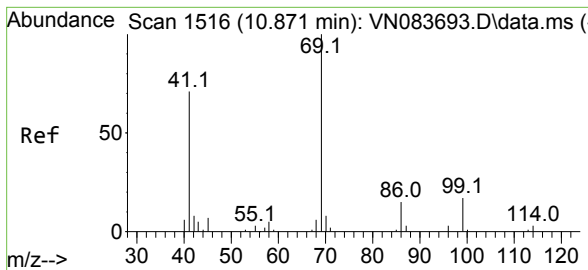
97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

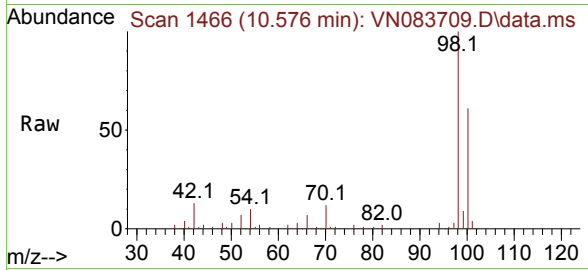
99 282.4 47.0 70.4#



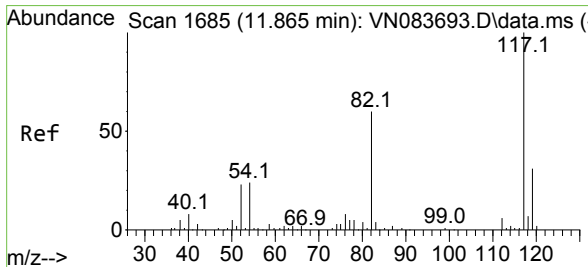
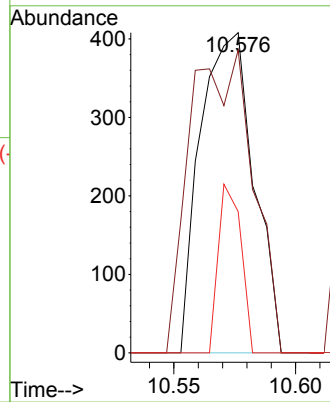
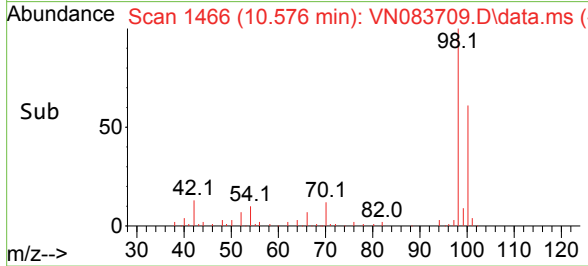


#51
Ethyl methacrylate
Concen: 0.207 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.294 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

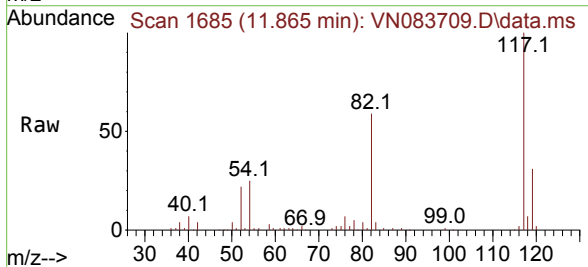
Instrument :
MSVOA_N
ClientSampleId :



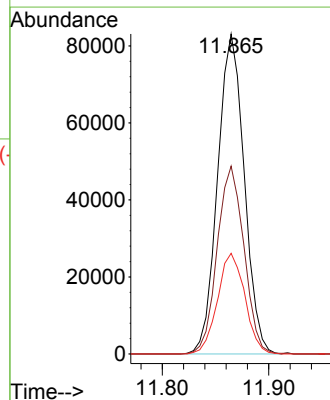
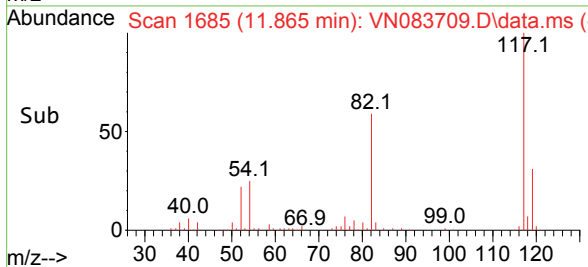
Tgt Ion: 69 Resp: 624
Ion Ratio Lower Upper
69 100
41 94.6 25.5 76.5#
39 44.1 16.0 47.9

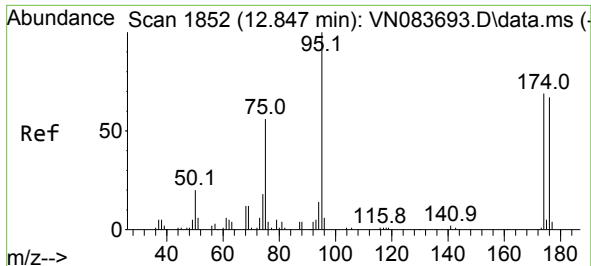


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26



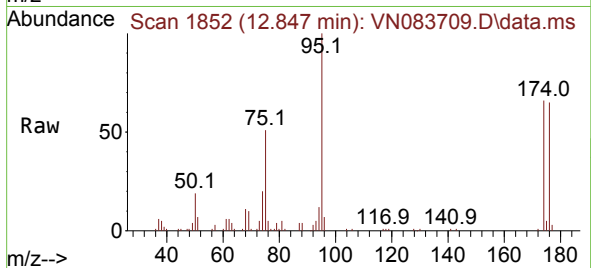
Tgt Ion: 117 Resp: 144268
Ion Ratio Lower Upper
117 100
82 58.9 46.6 69.8
119 32.3 25.4 38.2



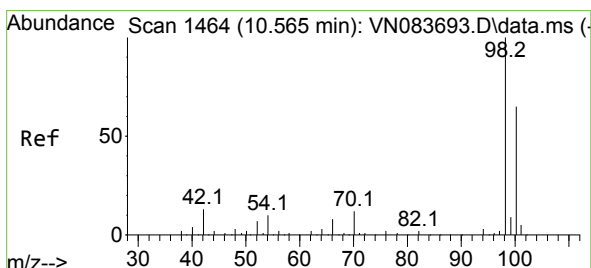
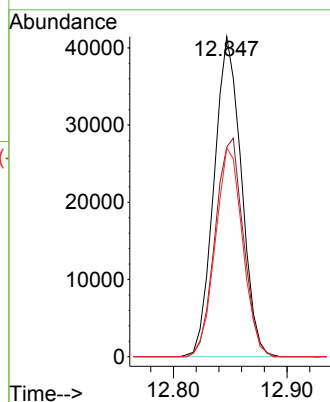
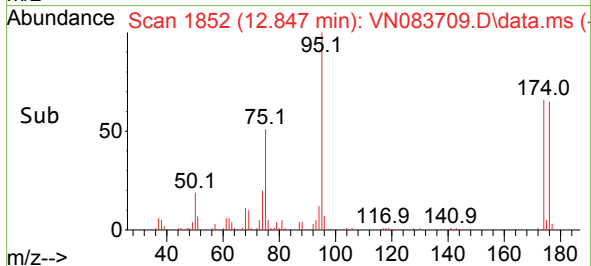


#60
4-Bromofluorobenzene
Concen: 27.785 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

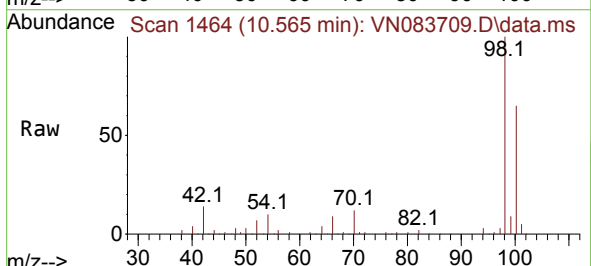
Instrument :
MSVOA_N
ClientSampleId :



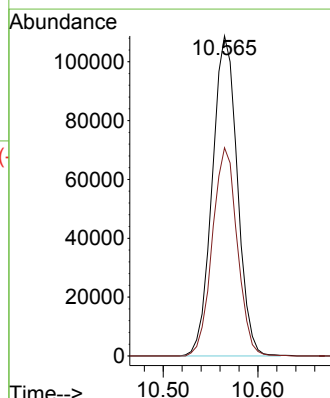
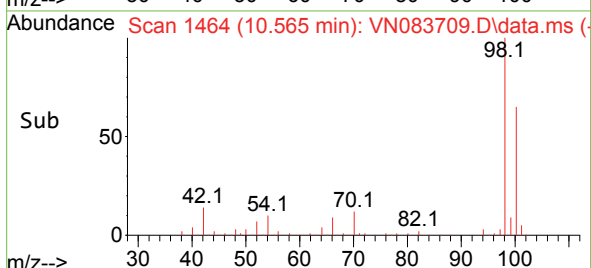
Tgt Ion: 95 Resp: 69085
Ion Ratio Lower Upper
95 100
174 70.5 60.5 90.7
176 65.7 57.8 86.6

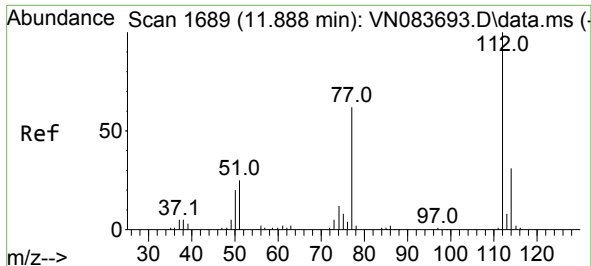


#63
Toluene-d8
Concen: 29.880 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26



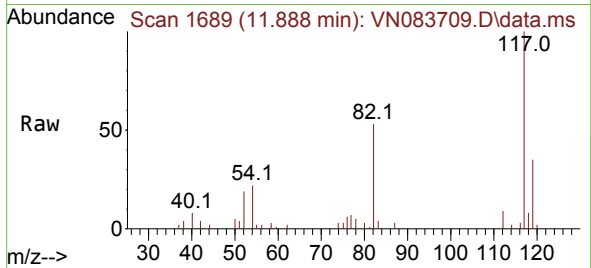
Tgt Ion: 98 Resp: 199602
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1



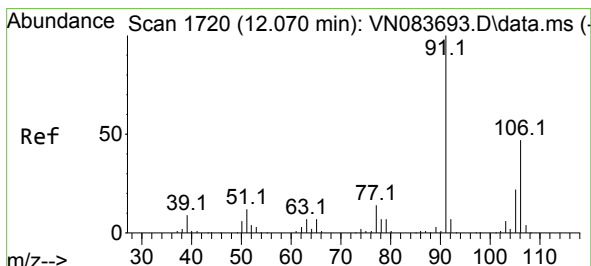
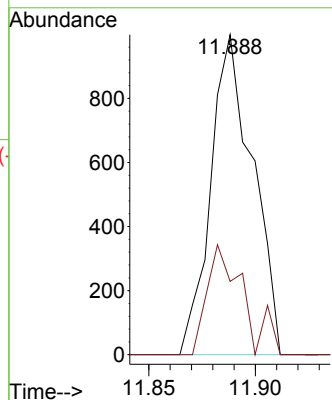
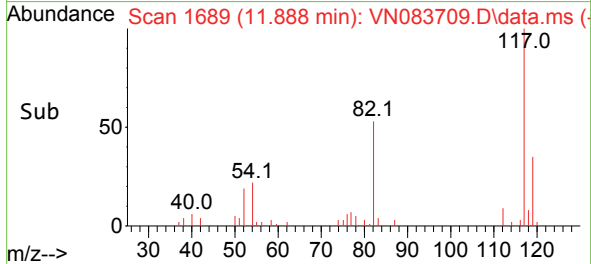


#64
Chlorobenzene
Concen: 0.266 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :

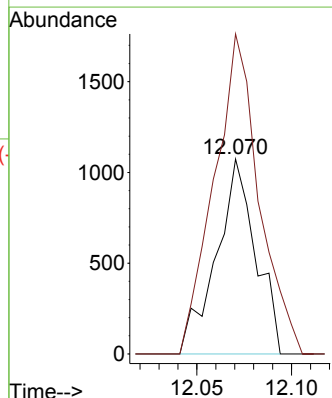
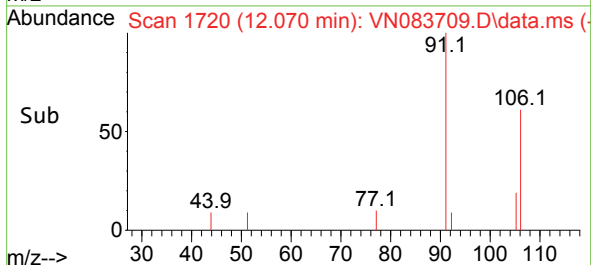
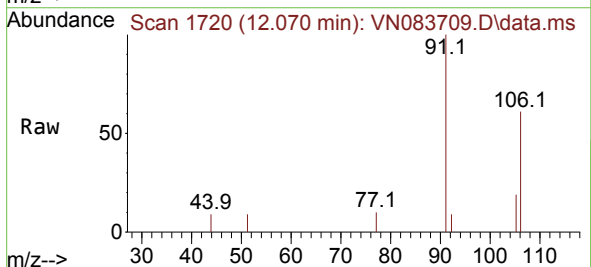


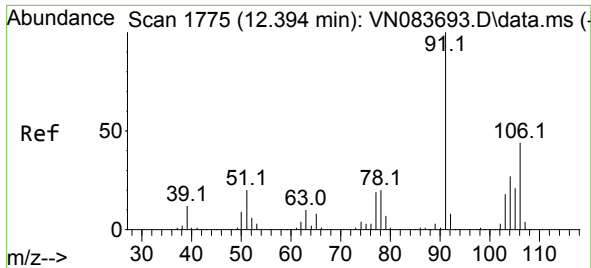
Tgt Ion:112 Resp: 1368
Ion Ratio Lower Upper
112 100
114 22.9 26.6 39.8#



#67
m/p-Xylenes
Concen: 0.447 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Tgt Ion:106 Resp: 1552
Ion Ratio Lower Upper
106 100
91 186.9 166.6 249.8

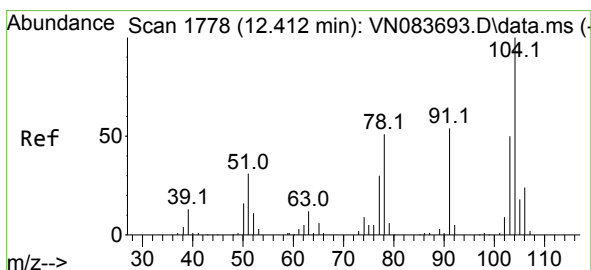
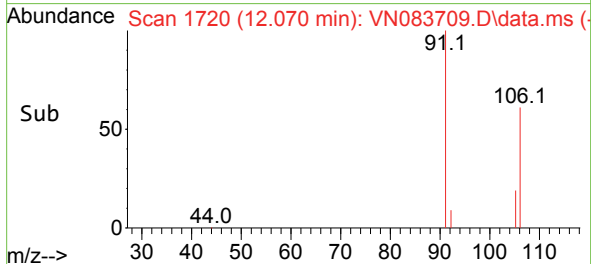
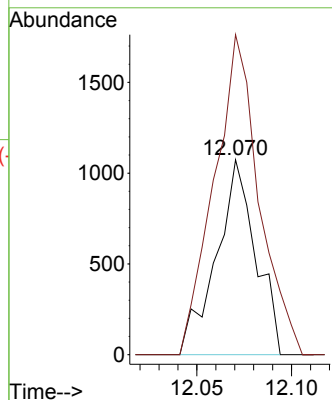
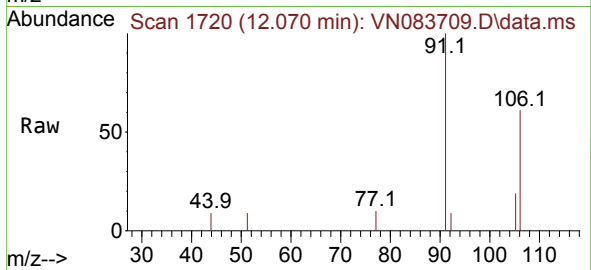




#68
o-Xylene
Concen: 0.462 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.324 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

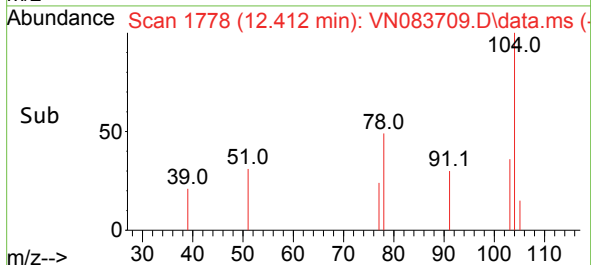
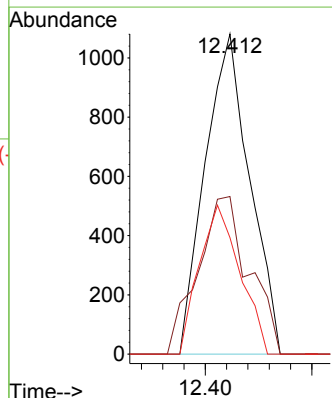
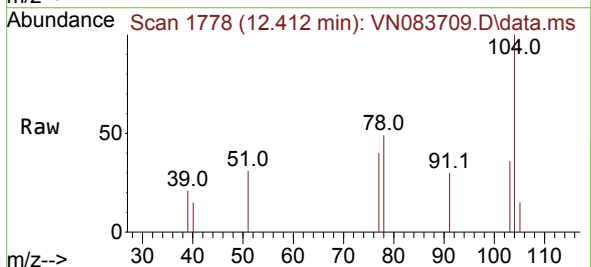
Instrument :
MSVOA_N
ClientSampleId :

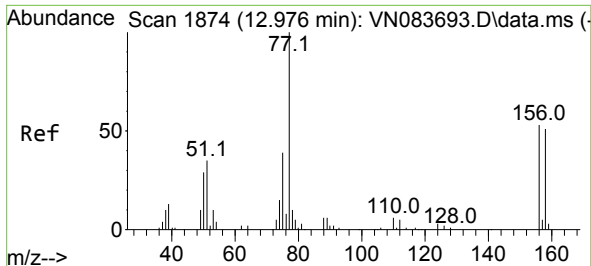
Tgt Ion:106 Resp: 1552
Ion Ratio Lower Upper
106 100
91 186.9 110.0 330.0



#69
Styrene
Concen: 0.277 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Tgt Ion:104 Resp: 1574
Ion Ratio Lower Upper
104 100
78 56.5 42.6 64.0
103 42.4 43.7 65.5#

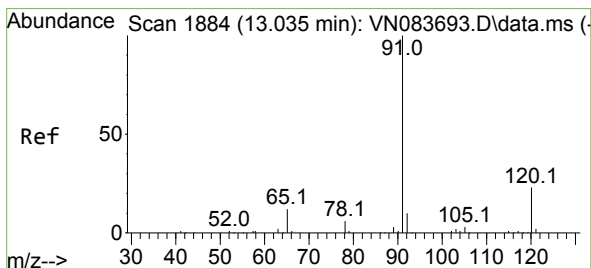
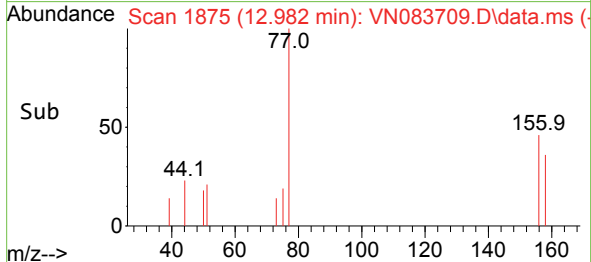
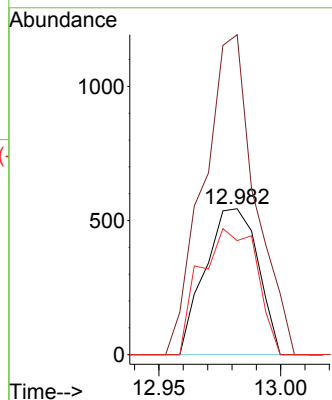
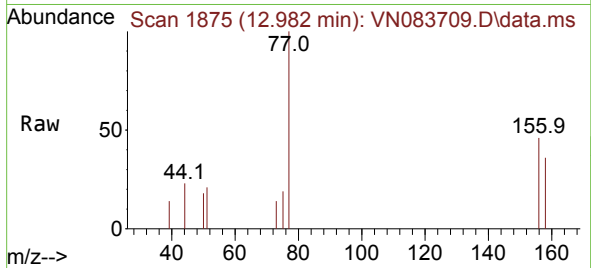




#73
Bromobenzene
Concen: 0.402 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

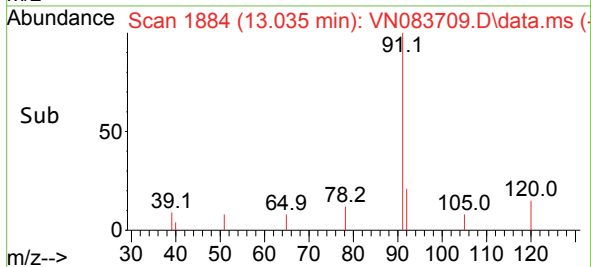
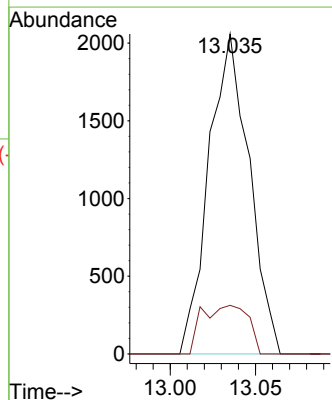
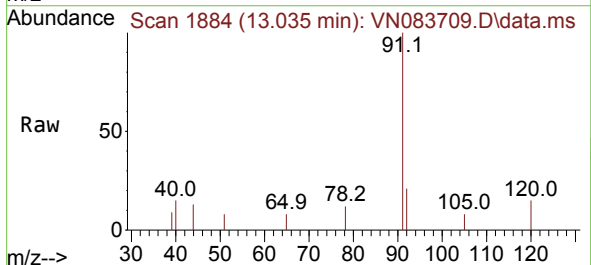
Instrument :
MSVOA_N
ClientSampleId :

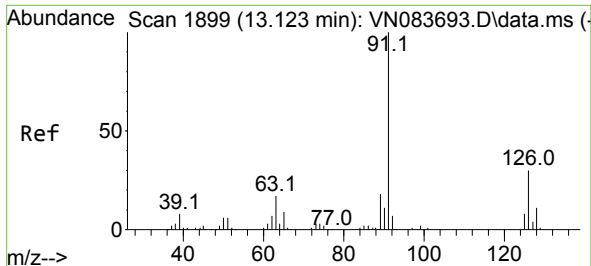
Tgt Ion:156 Resp: 818
Ion Ratio Lower Upper
156 100
77 215.3 0.0 437.6
158 92.7 0.0 203.8



#74
n-propylbenzene
Concen: 0.326 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

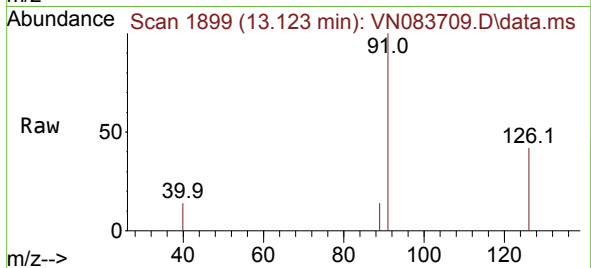
Tgt Ion: 91 Resp: 3381
Ion Ratio Lower Upper
91 100
120 11.8 0.0 43.8



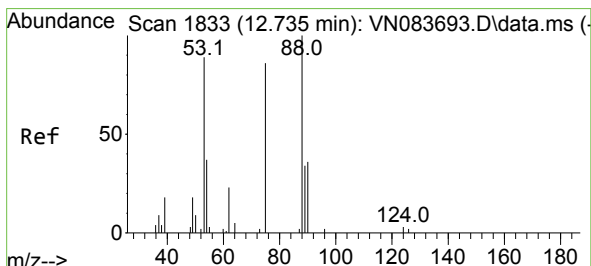
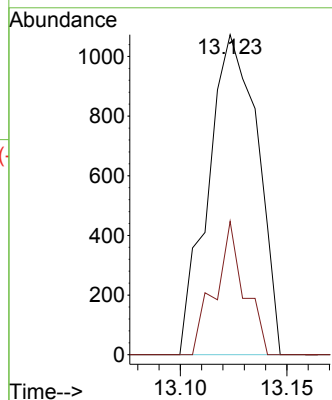
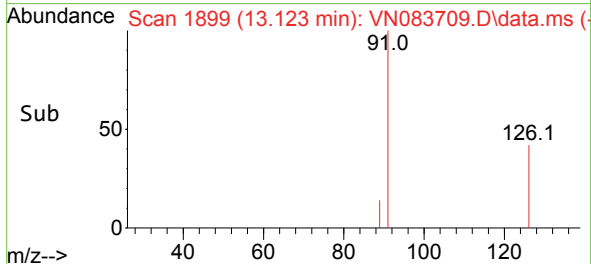


#75
2-Chlorotoluene
Concen: 0.268 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :

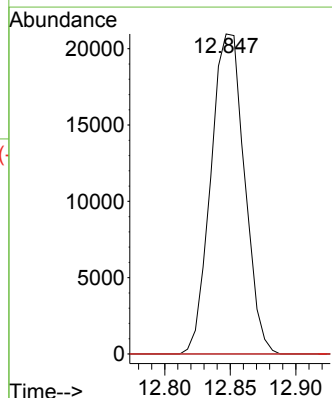
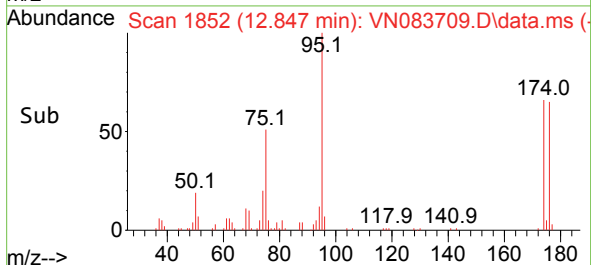
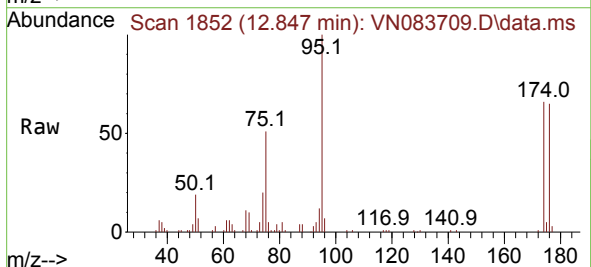


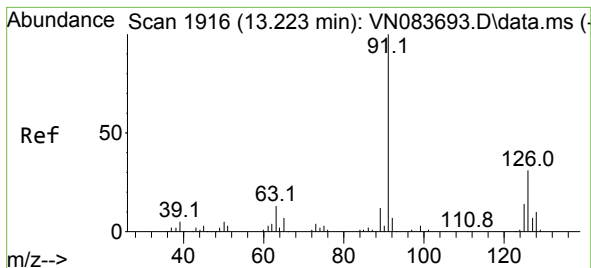
Tgt Ion: 91 Resp: 1732
Ion Ratio Lower Upper
91 100
126 24.8 0.0 61.2



#77
t-1,4-Dichloro-2-butene
Concen: 41.734 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

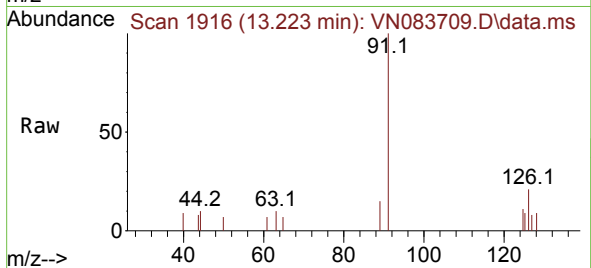
Tgt Ion: 75 Resp: 37431
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



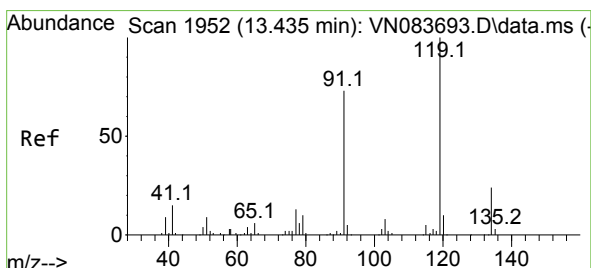
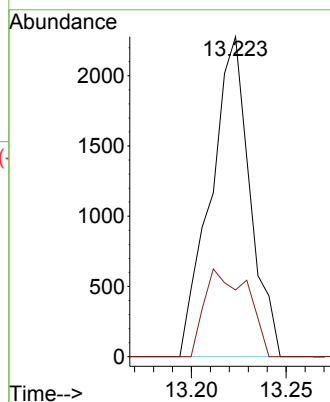
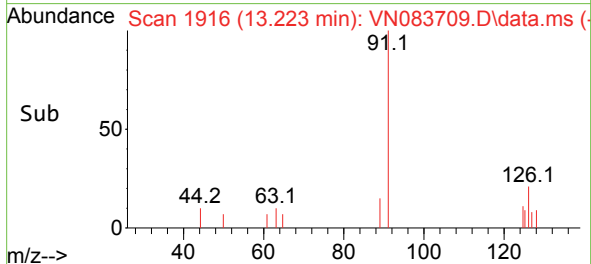


#78
4-Chlorotoluene
Concen: 0.499 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

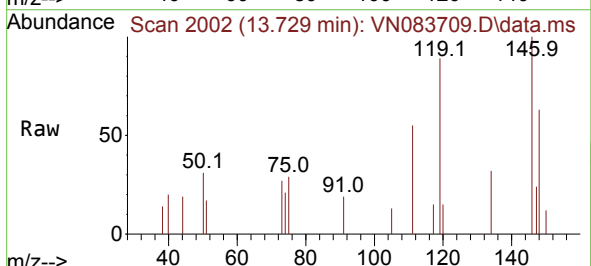
Instrument :
MSVOA_N
ClientSampleId :



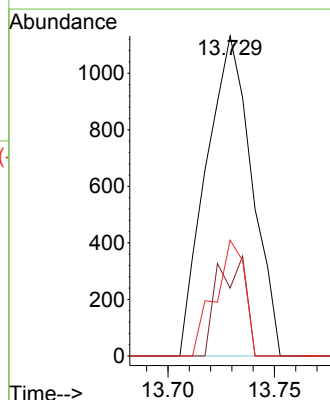
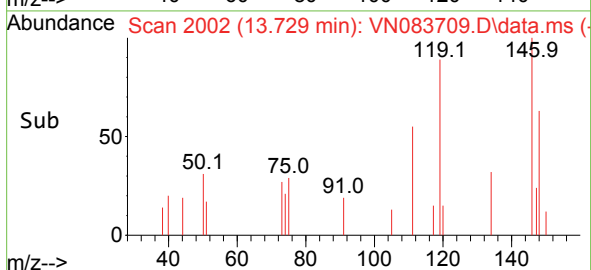
Tgt Ion: 91 Resp: 3279
Ion Ratio Lower Upper
91 100
126 21.2 0.0 62.8

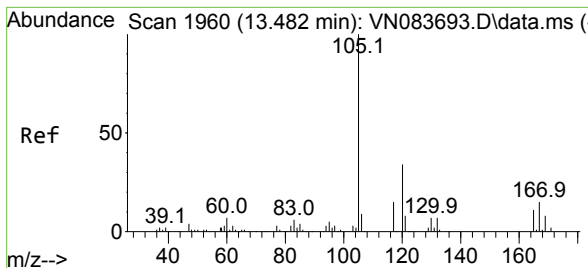


#79
tert-butylbenzene
Concen: 0.261 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.294 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26



Tgt Ion: 119 Resp: 1691
Ion Ratio Lower Upper
119 100
91 19.2 0.0 138.8
134 23.7 0.0 48.6

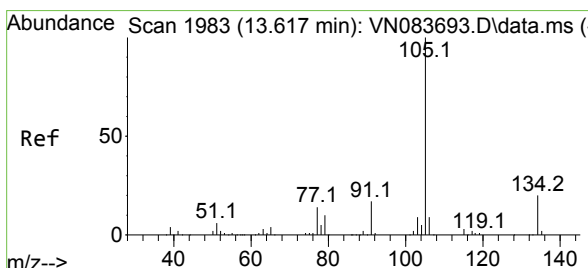
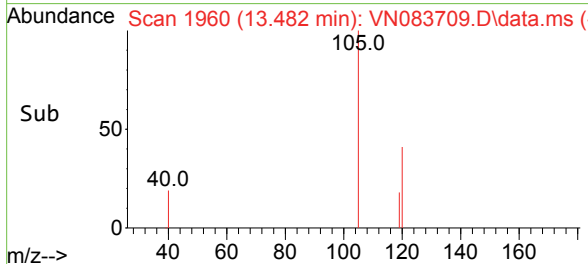
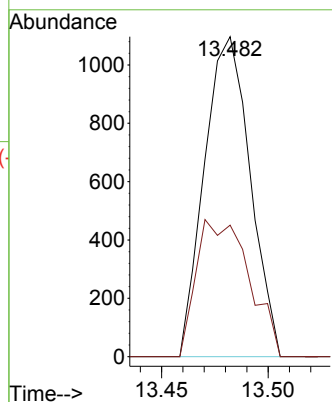
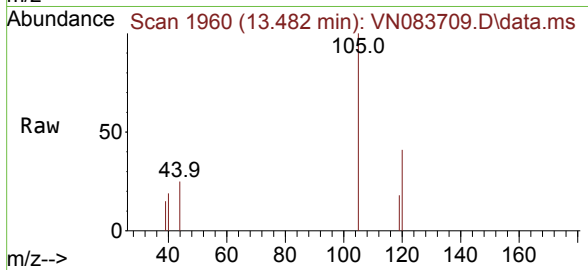




#80
1,2,4-Trimethylbenzene
Concen: 0.219 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

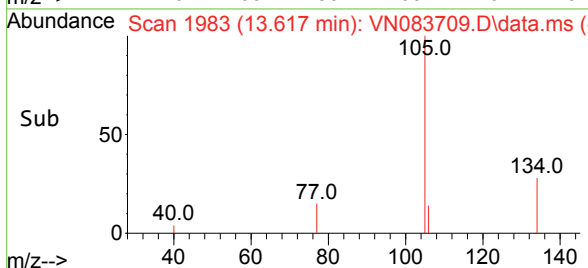
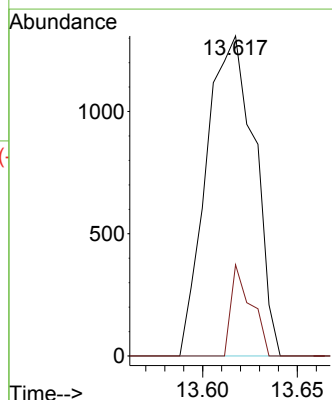
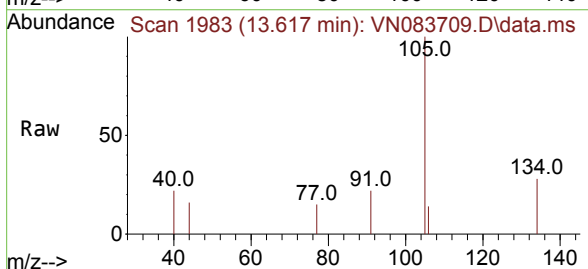
Instrument :
MSVOA_N
ClientSampleId :

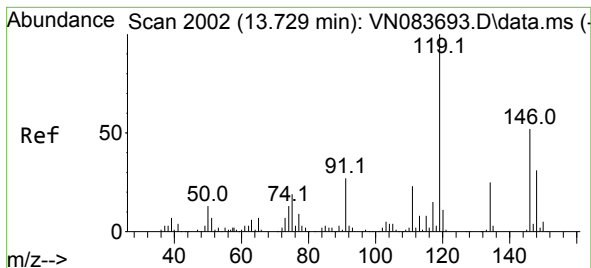
Tgt Ion:105 Resp: 1640
Ion Ratio Lower Upper
105 100
120 49.1 0.0 86.8



#81
sec-Butylbenzene
Concen: 0.261 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Tgt Ion:105 Resp: 2308
Ion Ratio Lower Upper
105 100
134 12.0 0.0 39.0





#82

p-Isopropyltoluene

Concen: 0.227 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083709.D

Acq: 09 Sep 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

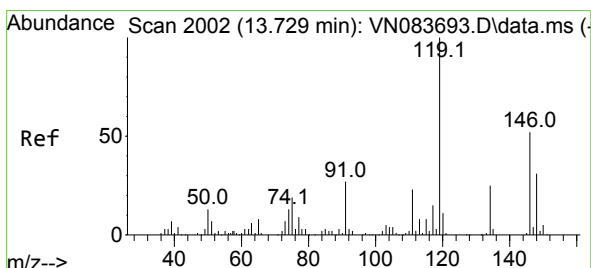
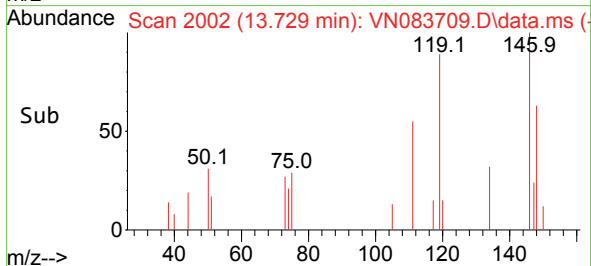
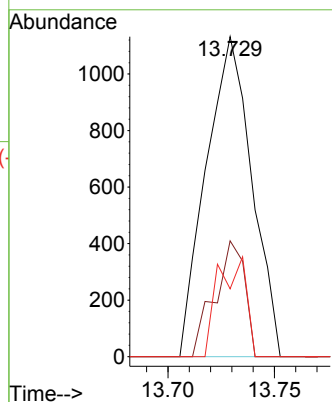
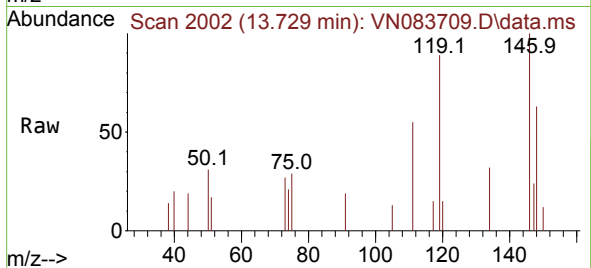
Tgt Ion:119 Resp: 1691

Ion Ratio Lower Upper

119 100

134 23.7 0.0 49.2

91 19.2 0.0 48.8



#83

1,3-Dichlorobenzene

Concen: 0.544 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083709.D

Acq: 09 Sep 2024 10:26

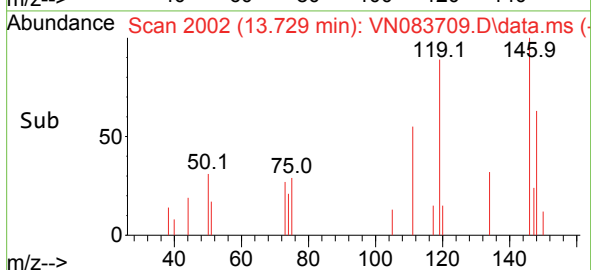
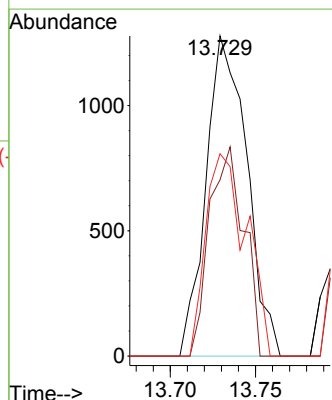
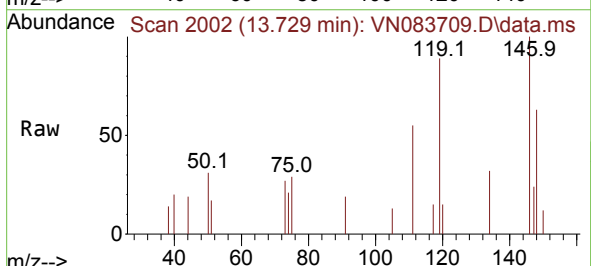
Tgt Ion:146 Resp: 2130

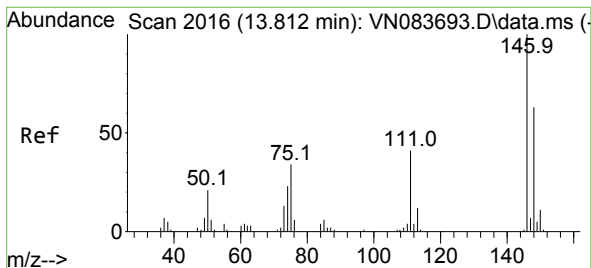
Ion Ratio Lower Upper

146 100

111 55.3 22.4 67.0

148 63.0 32.1 96.5





#84

1,4-Dichlorobenzene

Concen: 0.642 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

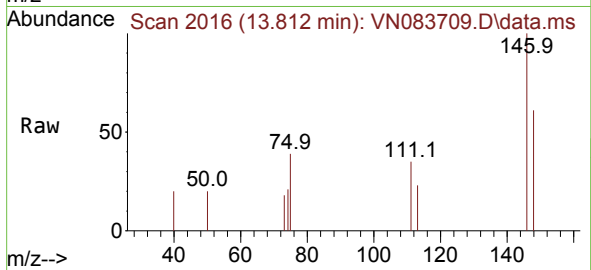
Lab File: VN083709.D

Acq: 09 Sep 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :



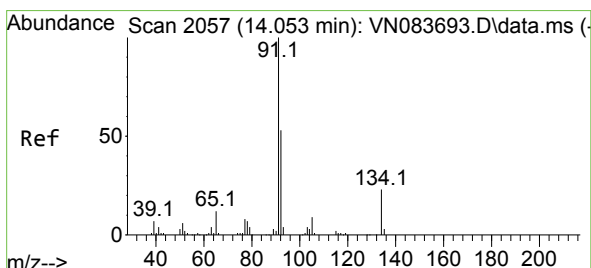
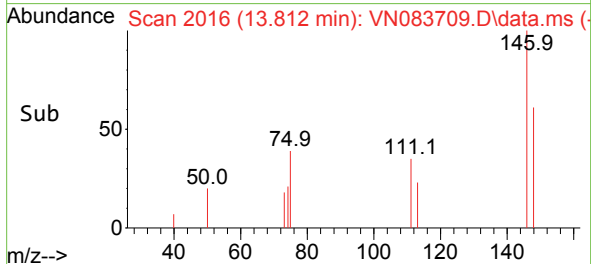
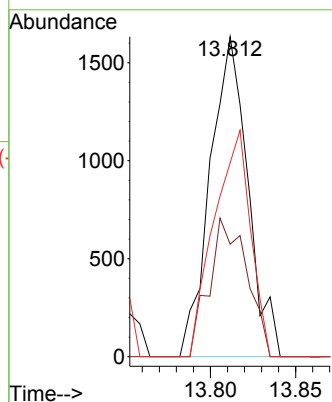
Tgt Ion:146 Resp: 2515

Ion Ratio Lower Upper

146 100

111 43.5 21.3 63.9

148 68.5 31.9 95.5



#85

n-Butylbenzene

Concen: 0.473 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN083709.D

Acq: 09 Sep 2024 10:26

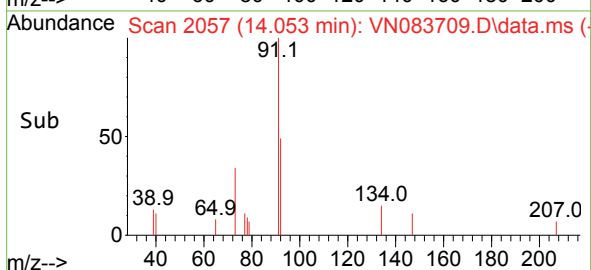
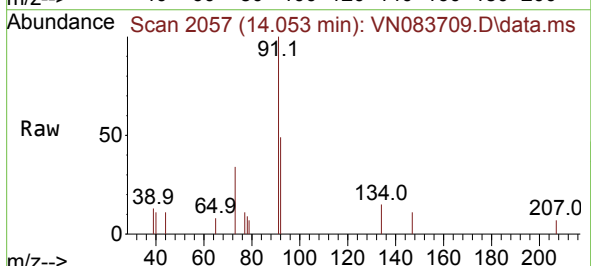
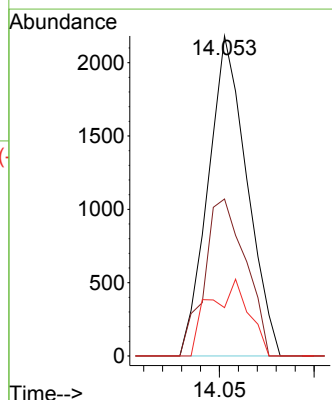
Tgt Ion: 91 Resp: 3104

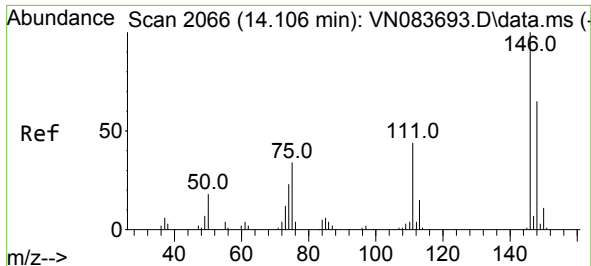
Ion Ratio Lower Upper

91 100

92 52.3 0.0 105.0

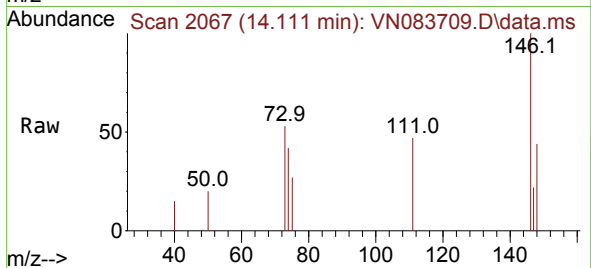
134 11.8 0.0 51.8



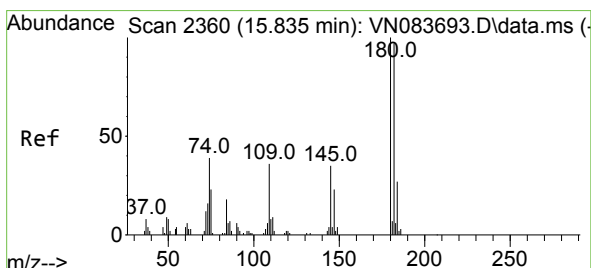
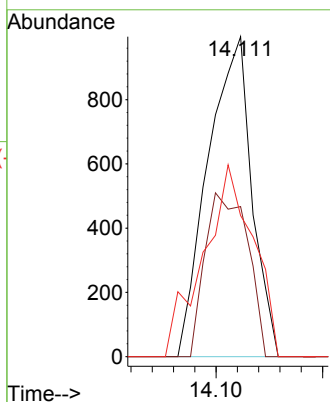
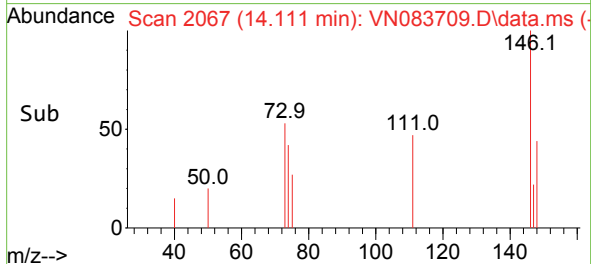


#87
1,2-Dichlorobenzene
Concen: 0.374 ug/l
RT: 14.111 min Scan# 2067
Delta R.T. 0.006 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

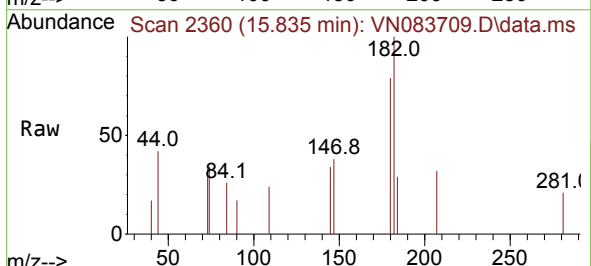
Instrument :
MSVOA_N
ClientSampleId :



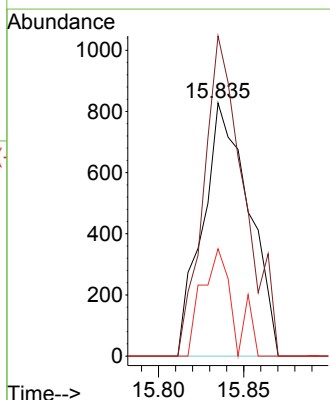
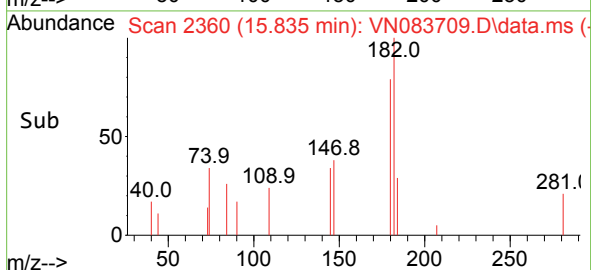
Tgt Ion:146 Resp: 1423
Ion Ratio Lower Upper
146 100
111 49.9 22.6 67.8
148 68.1 31.3 93.8

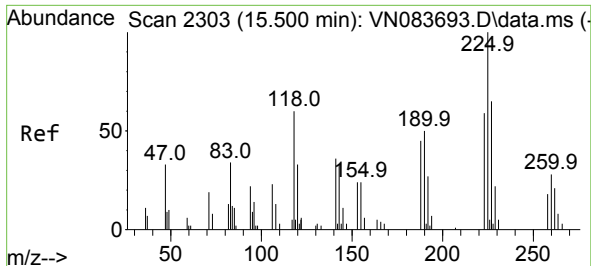


#89
1,2,4-Trichlorobenzene
Concen: 0.753 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26



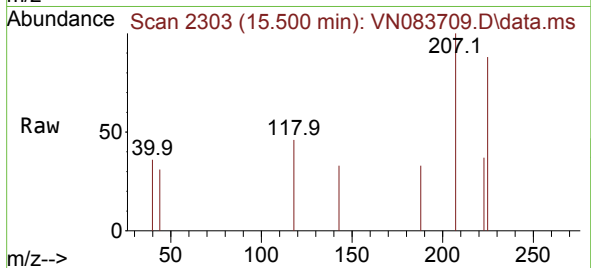
Tgt Ion:180 Resp: 1568
Ion Ratio Lower Upper
180 100
182 109.4 76.4 114.6
145 24.0 28.4 42.6#



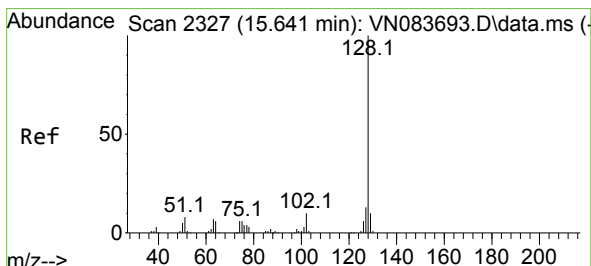
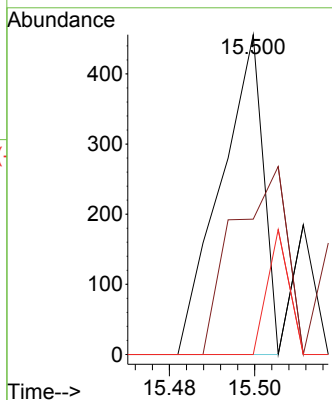
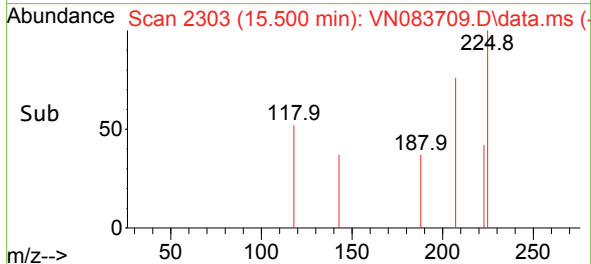


#90
Hexachlorobutadiene
Concen: 0.367 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :

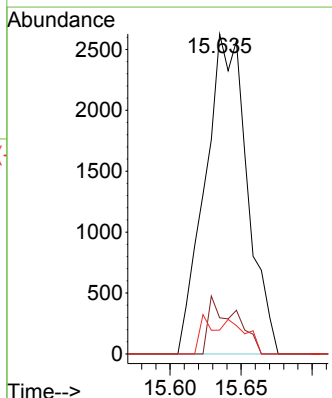
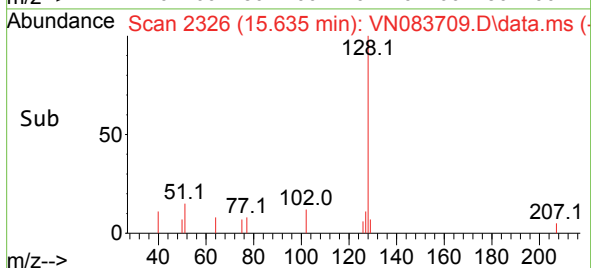
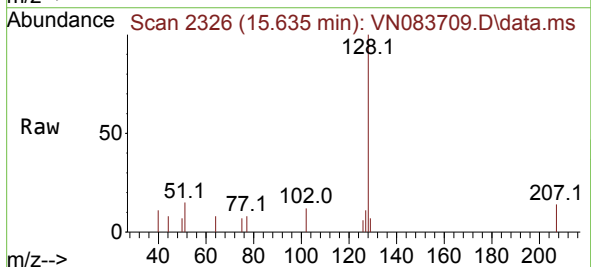


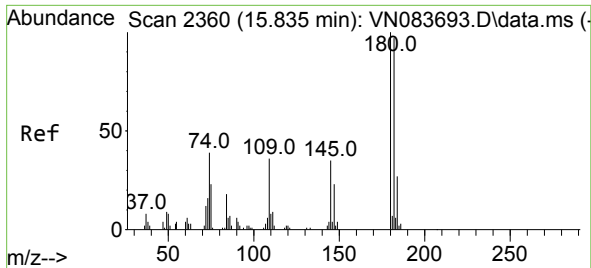
Tgt Ion:225 Resp: 316
Ion Ratio Lower Upper
225 100
223 72.8 0.0 126.6
227 0.0 0.0 126.6



#91
Naphthalene
Concen: 0.794 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN083709.D
Acq: 09 Sep 2024 10:26

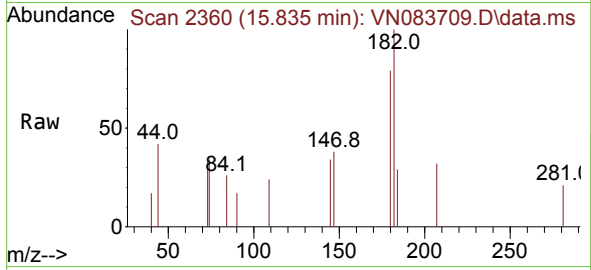
Tgt Ion:128 Resp: 5403
Ion Ratio Lower Upper
128 100
127 4.7 10.6 16.0#
129 7.0 8.6 13.0#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.753 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN083709.D
 Acq: 09 Sep 2024 10:26

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1568
Ion	Ratio	Lower	Upper
180	100		
182	109.4	0.0	191.0
145	24.0	0.0	71.0

