

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112524\
 Data File : VN085025.D
 Acq On : 25 Nov 2024 12:39
 Operator : JC\MD
 Sample : VN1125WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 25 15:14:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

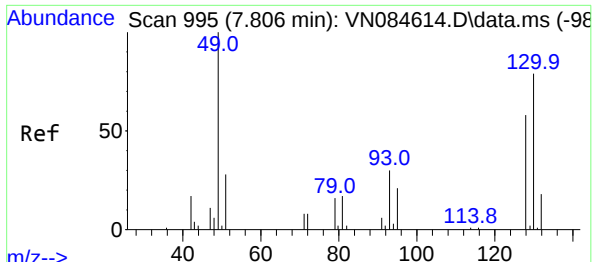
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.806	128	24457	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	127294	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	111508	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	60337	30.687	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.300%
60) 4-Bromofluorobenzene	12.847	95	48297	25.155	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.833%
63) Toluene-d8	10.565	98	151152	28.634	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.433%
Target Compounds						
					Qvalue	
5) Bromomethane	2.912	94	372	0.461	ug/l #	4
6) Chloroethane	3.077	64	253	0.242	ug/l #	47
23) tert-Butyl Alcohol	5.506	59	230	0.906	ug/l #	100
48) t-1,3-Dichloropropene	10.835	75	672	0.297	ug/l #	23
50) 1,1,2-Trichloroethane	10.576	97	5346	3.734	ug/l #	5
51) Ethyl methacrylate	10.565	69	493	0.223	ug/l #	71
55) 2-Chloroethyl vinyl ether	10.159	63	1161	1.073	ug/l #	89
59) 2-Hexanone	11.200	43	597	0.463	ug/l #	33
64) Chlorobenzene	11.888	112	1597	0.417	ug/l	98
66) Ethyl Benzene	11.959	91	1392	0.209	ug/l #	87
67) m/p-Xylenes	12.065	106	1228	0.481	ug/l	99
68) o-Xylene	12.065	106	1228	0.498	ug/l	96
69) Styrene	12.412	104	1505	0.364	ug/l #	79
73) Bromobenzene	12.976	156	1050	0.665	ug/l	62
74) n-propylbenzene	13.029	91	2779	0.388	ug/l	92
75) 2-Chlorotoluene	13.123	91	1698	0.364	ug/l	83
77) t-1,4-Dichloro-2-butene	12.847	75	26051	37.479	ug/l #	7
78) 4-Chlorotoluene	13.223	91	3007	0.638	ug/l	100
79) tert-butylbenzene	13.729	119	1441	0.333	ug/l	43
80) 1,2,4-Trimethylbenzene	13.482	105	1268	0.240	ug/l	92
81) sec-Butylbenzene	13.611	105	1771	0.297	ug/l	64
82) p-Isopropyltoluene	13.729	119	1441	0.288	ug/l	80
83) 1,3-Dichlorobenzene	13.735	146	2700	0.924	ug/l	92
84) 1,4-Dichlorobenzene	13.735	146	2700	0.936	ug/l	91
85) n-Butylbenzene	14.053	91	2679	0.637	ug/l	68
87) 1,2-Dichlorobenzene	14.111	146	2032	0.706	ug/l	97
89) 1,2,4-Trichlorobenzene	15.394	180	2139	1.526	ug/l	98
90) Hexachlorobutadiene	15.505	225	693	1.132	ug/l	88
91) Naphthalene	15.641	128	5828	1.302	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.835	180	2009	1.434	ug/l	80

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

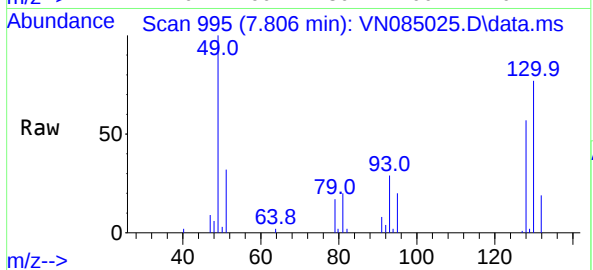
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



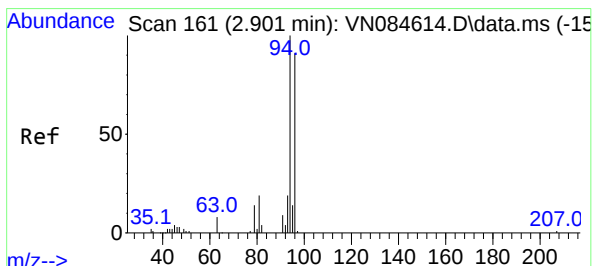
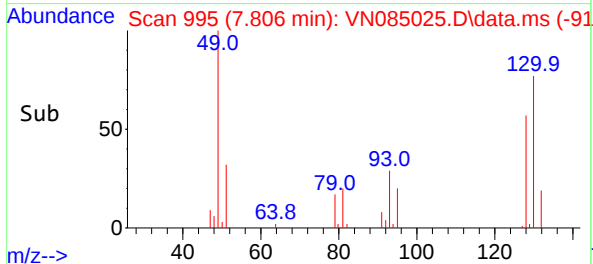
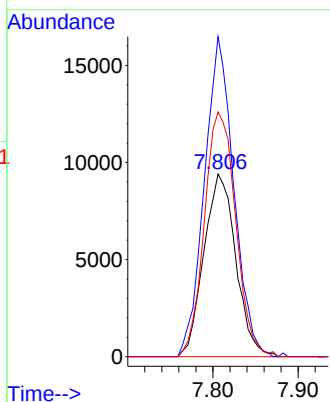


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

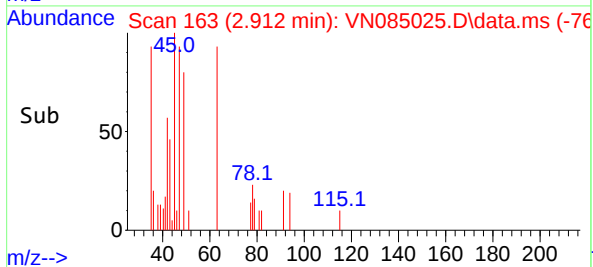
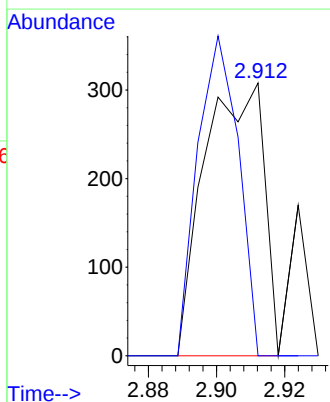
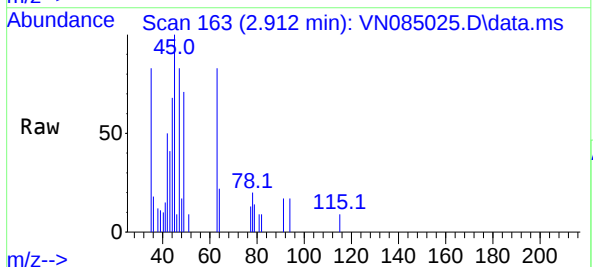


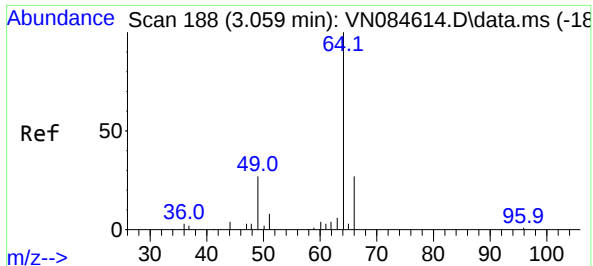
Tgt Ion:128 Resp: 24457
Ion Ratio Lower Upper
128 100
49 161.3 0.0 427.0
130 131.6 0.0 322.2



#5
Bromomethane
Concen: 0.461 ug/l
RT: 2.912 min Scan# 163
Delta R.T. 0.012 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

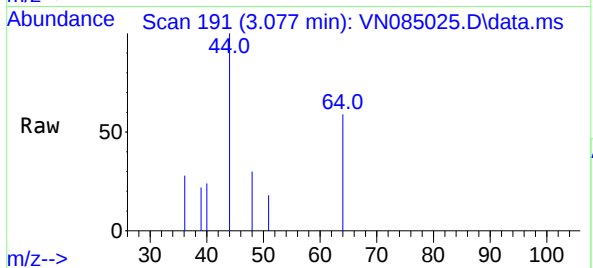
Tgt Ion: 94 Resp: 372
Ion Ratio Lower Upper
94 100
96 0.0 72.7 109.1#



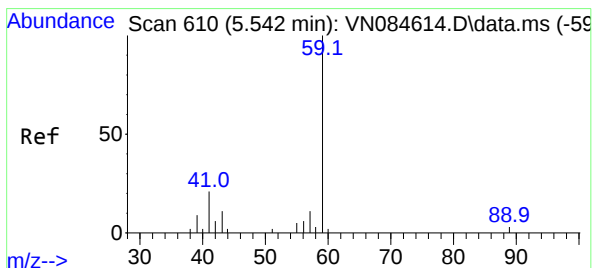
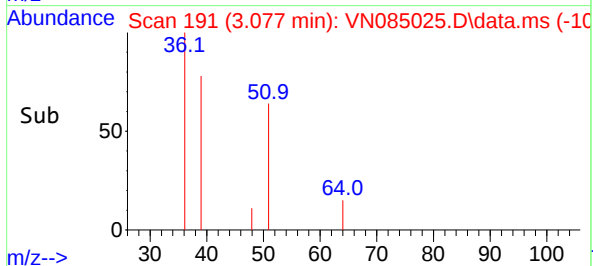
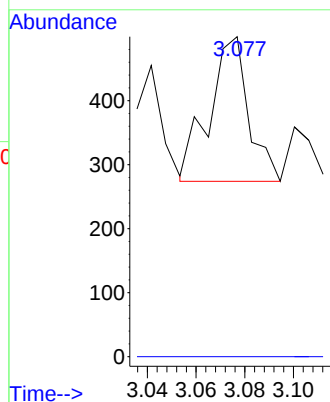


#6
Chloroethane
Concen: 0.242 ug/l
RT: 3.077 min Scan# 14
Delta R.T. 0.017 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

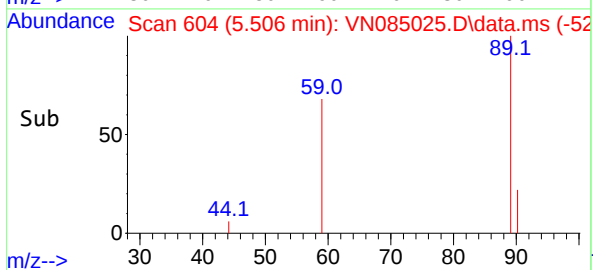
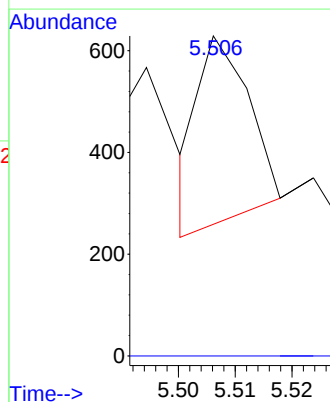
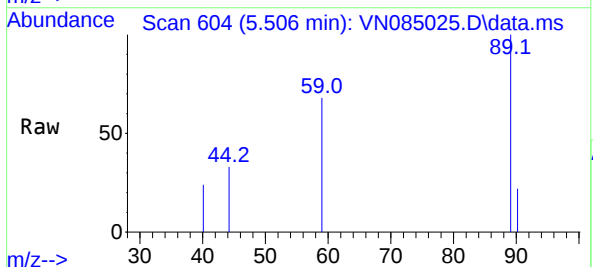


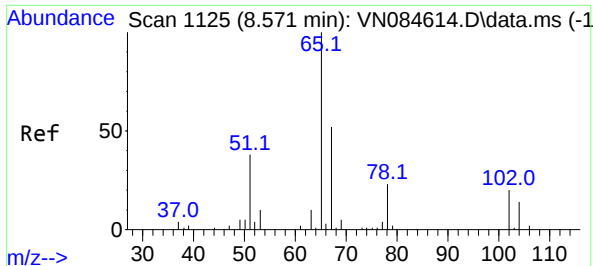
Tgt Ion: 64 Resp: 253
Ion Ratio Lower Upper
64 100
66 0.0 22.1 33.1#



#23
tert-Butyl Alcohol
Concen: 0.906 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.035 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Tgt Ion: 59 Resp: 230
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

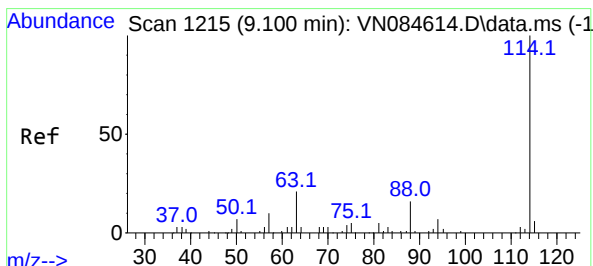
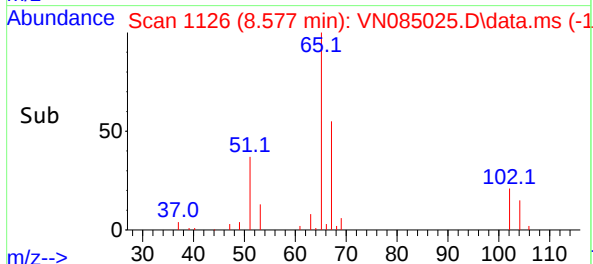
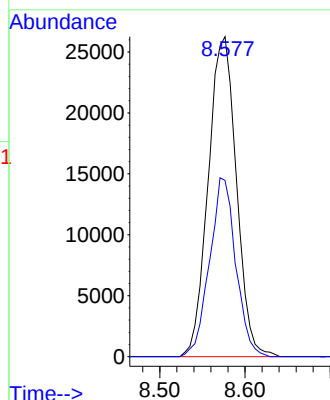
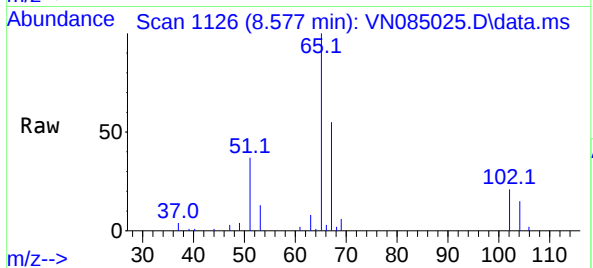




#27
1,2-Dichloroethane-d4
Concen: 30.687 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

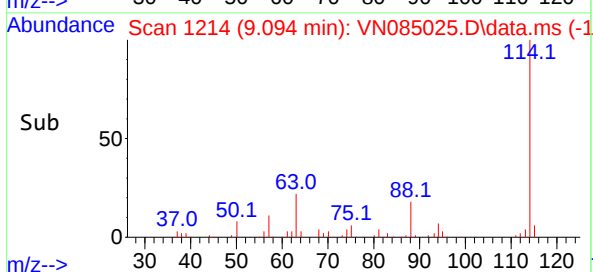
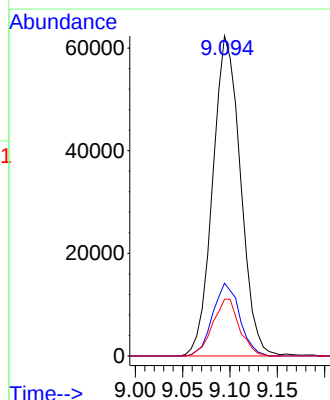
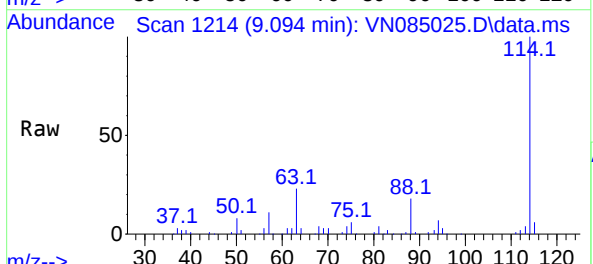
Instrument :
MSVOA_N
ClientSampleId :

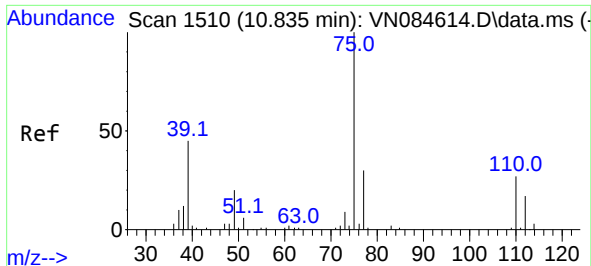
Tgt Ion: 65 Resp: 60337
Ion Ratio Lower Upper
65 100
67 52.0 40.7 61.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. -0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Tgt Ion: 114 Resp: 127294
Ion Ratio Lower Upper
114 100
63 22.0 16.8 25.2
88 17.1 12.9 19.3

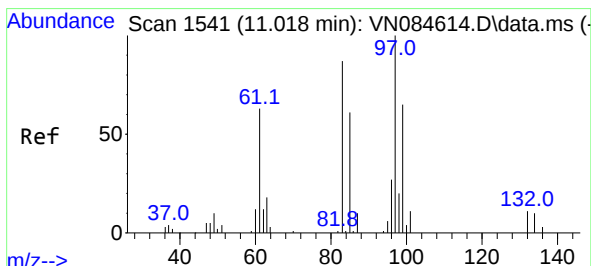
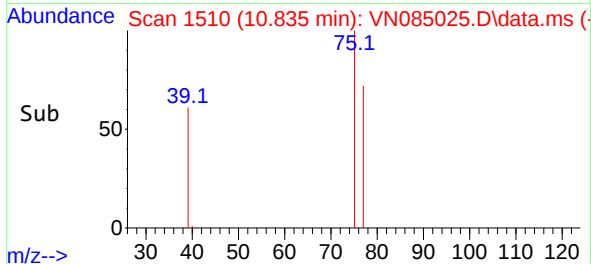
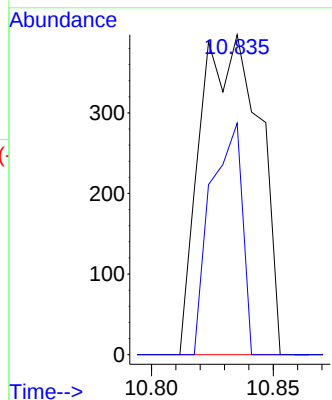
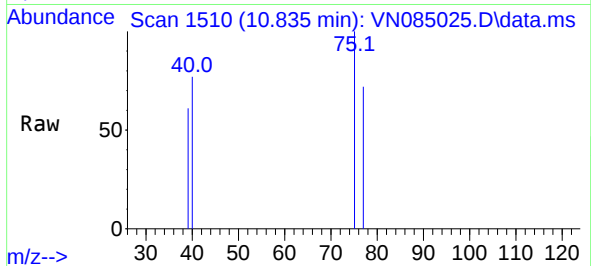




#48
t-1,3-Dichloropropene
Concen: 0.297 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

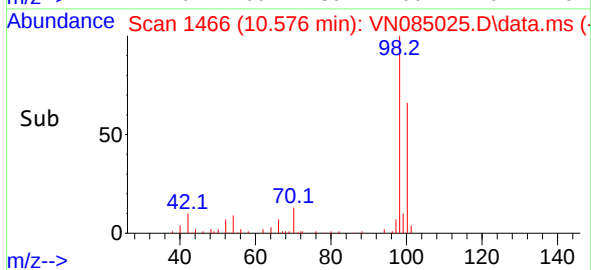
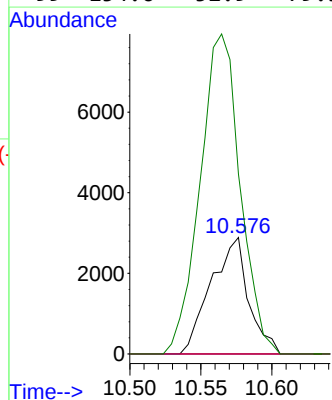
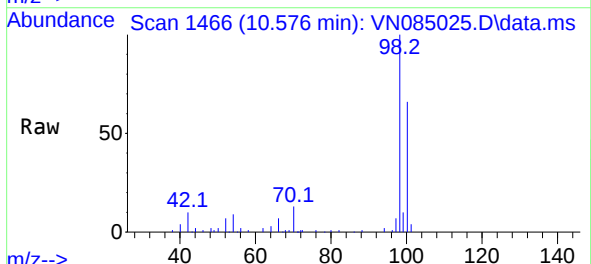
Instrument :
MSVOA_N
ClientSampleId :

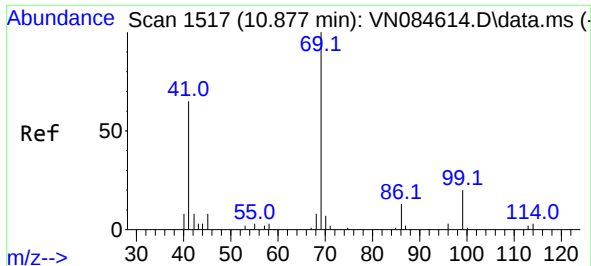
Tgt Ion: 75 Resp: 672
Ion Ratio Lower Upper
75 100
77 72.3 24.4 36.6#



#50
1,1,2-Trichloroethane
Concen: 3.734 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

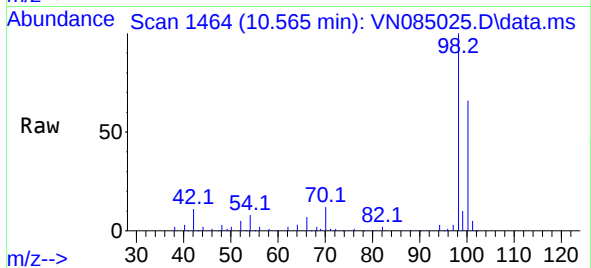
Tgt Ion: 97 Resp: 5346
Ion Ratio Lower Upper
97 100
83 0.0 69.8 104.8#
85 0.0 48.6 73.0#
99 154.6 52.9 79.3#



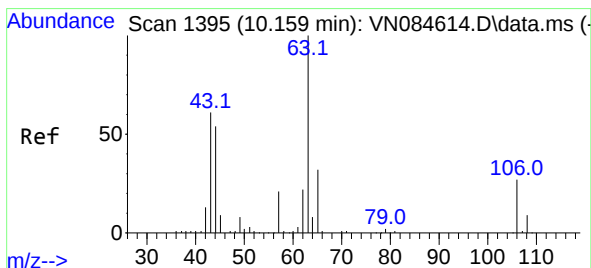
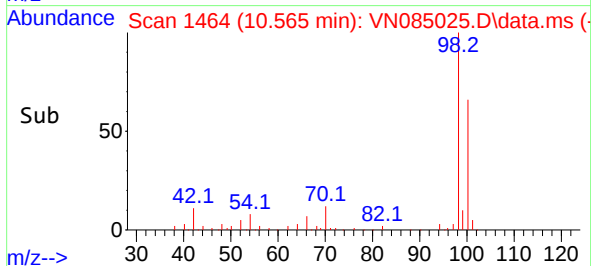
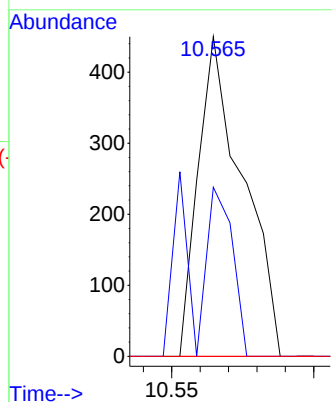


#51
Ethyl methacrylate
Concen: 0.223 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.312 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

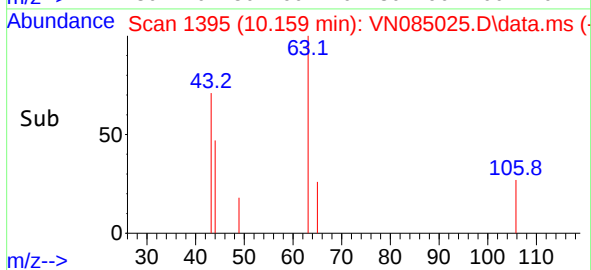
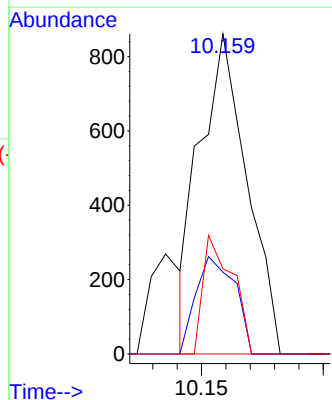
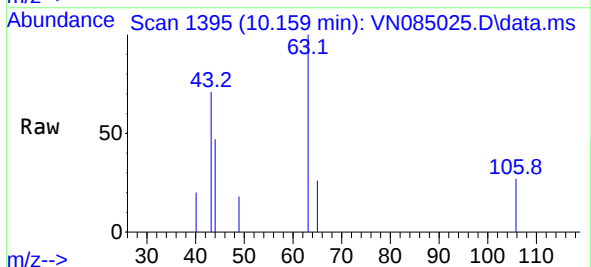


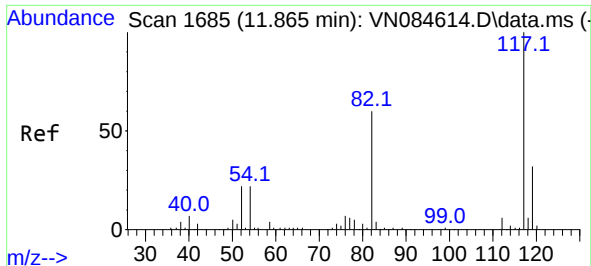
Tgt Ion: 69 Resp: 493
Ion Ratio Lower Upper
69 100
41 52.9 32.8 98.3
39 0.0 15.4 46.1#



#55
2-Chloroethyl vinyl ether
Concen: 1.073 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

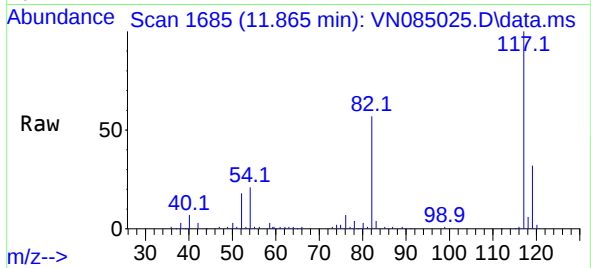
Tgt Ion: 63 Resp: 1161
Ion Ratio Lower Upper
63 100
65 25.1 25.5 38.3#
106 23.1 22.3 33.5



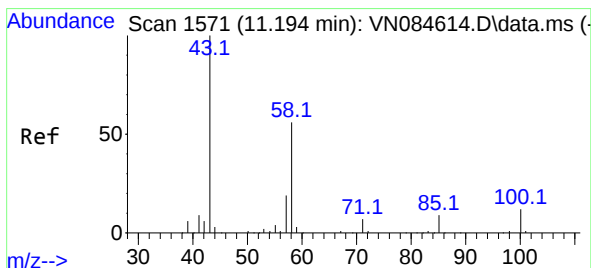
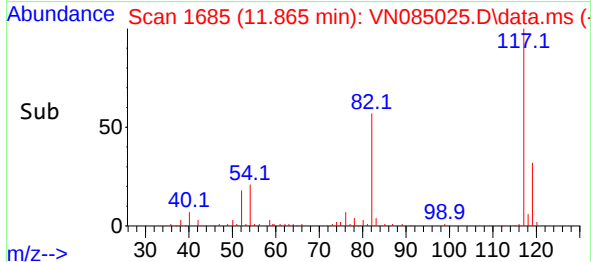
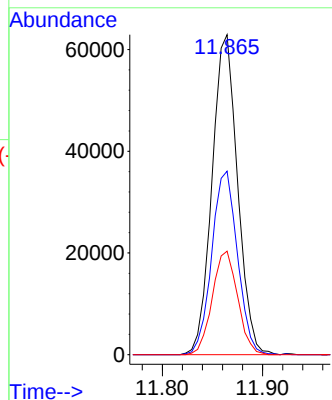


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 111508
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

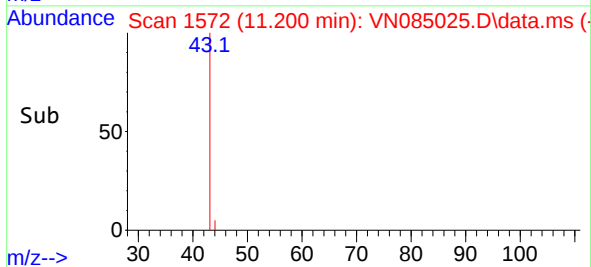
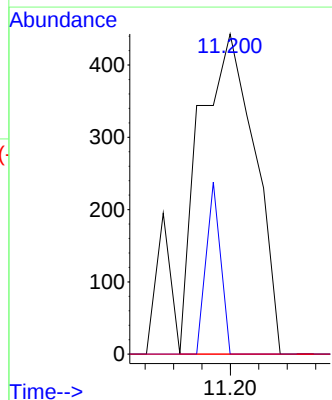
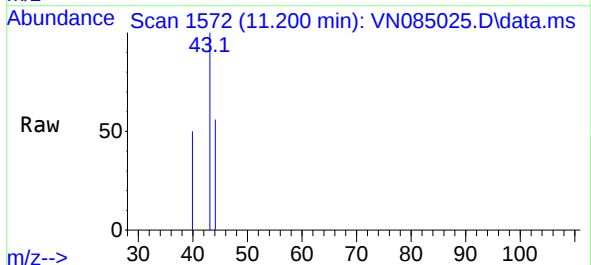


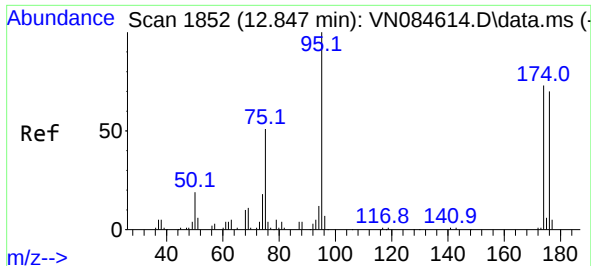
Tgt Ion:117 Resp: 111508
Ion Ratio Lower Upper
117 100
82 57.8 45.5 68.3
119 32.1 25.3 37.9



#59
2-Hexanone
Concen: 0.463 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

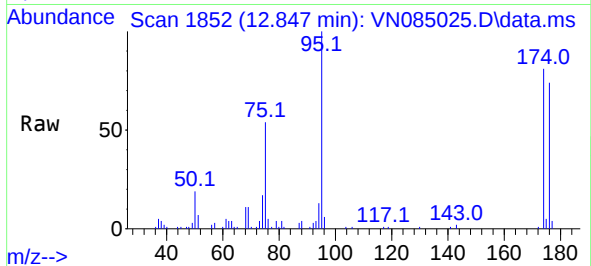
Tgt Ion: 43 Resp: 597
Ion Ratio Lower Upper
43 100
58 0.0 43.8 65.6#
57 0.0 15.0 22.6#



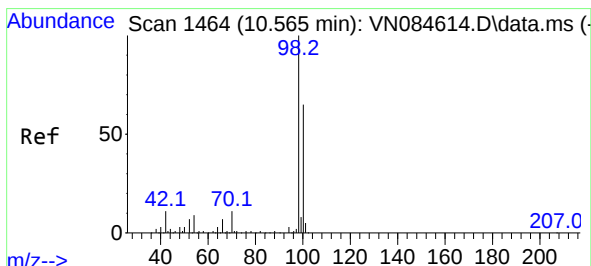
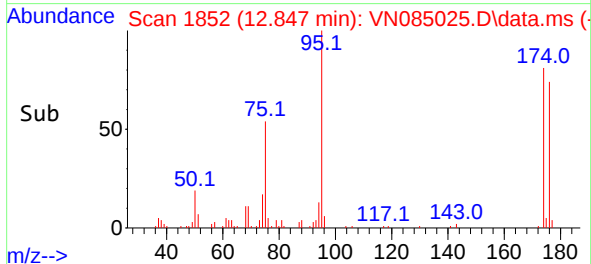
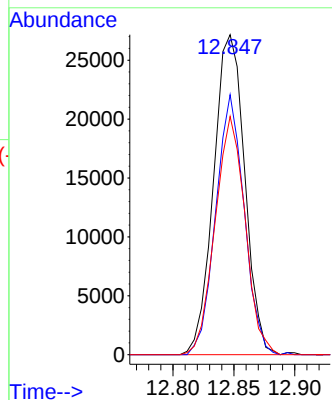


#60
4-Bromofluorobenzene
Concen: 25.155 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

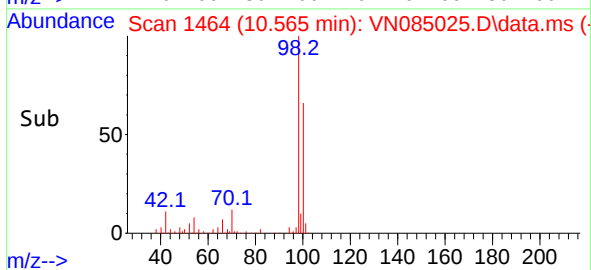
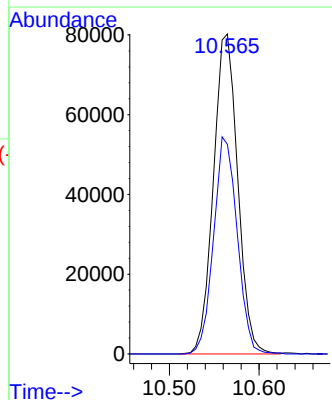
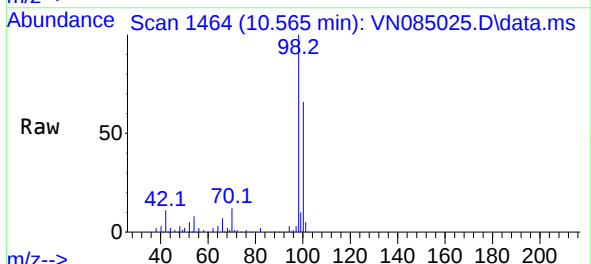


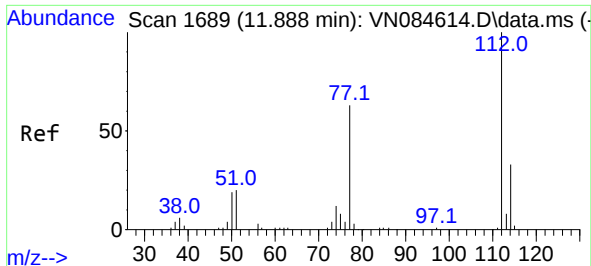
Tgt Ion: 95 Resp: 48297
Ion Ratio Lower Upper
95 100
174 74.2 59.6 89.4
176 71.7 58.6 88.0



#63
Toluene-d8
Concen: 28.634 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Tgt Ion: 98 Resp: 151152
Ion Ratio Lower Upper
98 100
100 65.8 52.2 78.2

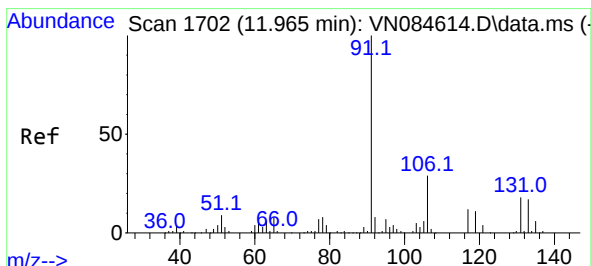
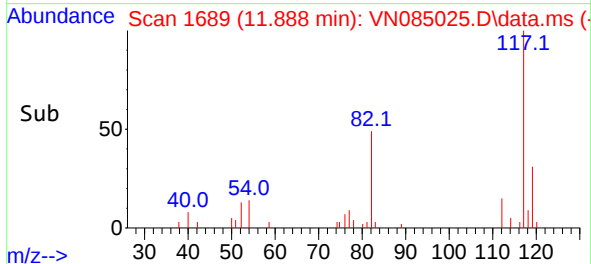
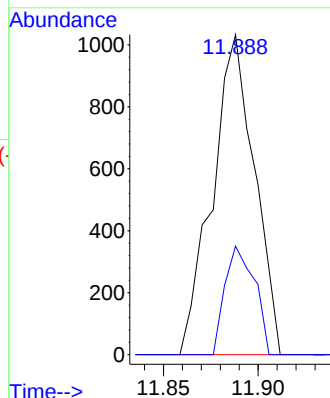
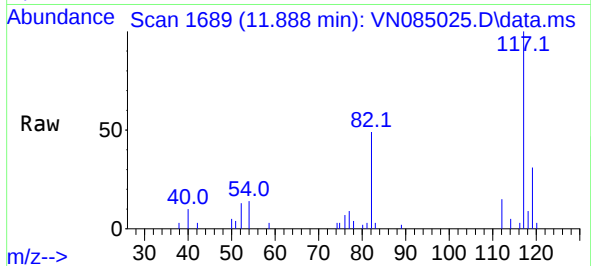




#64
Chlorobenzene
Concen: 0.417 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

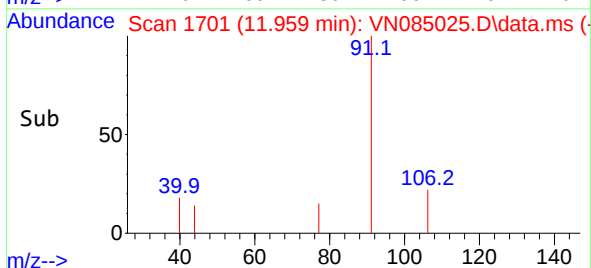
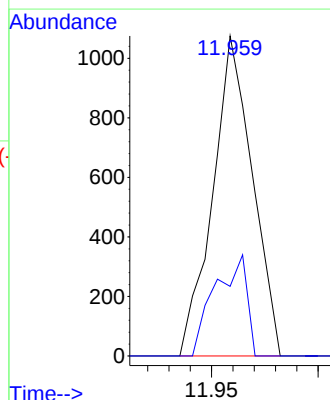
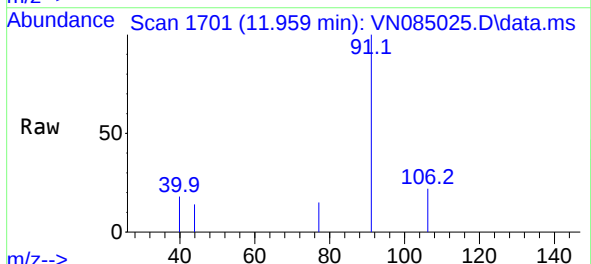
Instrument :
MSVOA_N
ClientSampleId :

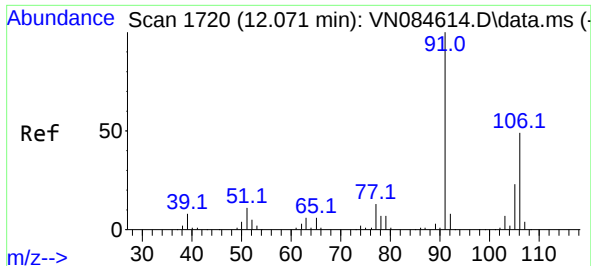
Tgt Ion:112 Resp: 1597
Ion Ratio Lower Upper
112 100
114 33.9 26.2 39.4



#66
Ethyl Benzene
Concen: 0.209 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Tgt Ion: 91 Resp: 1392
Ion Ratio Lower Upper
91 100
106 21.8 22.9 34.3#

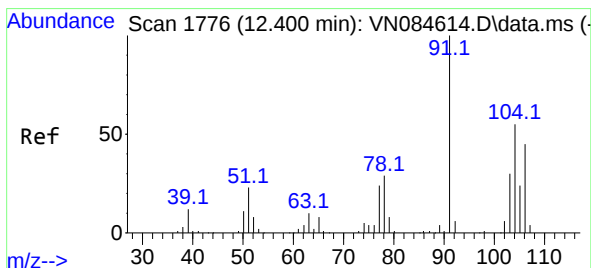
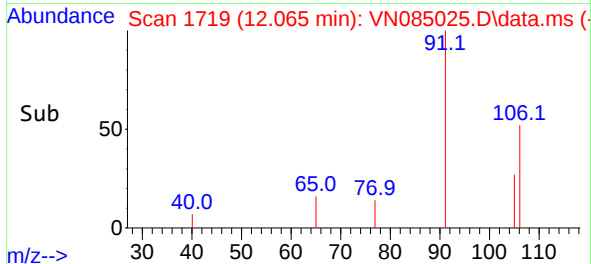
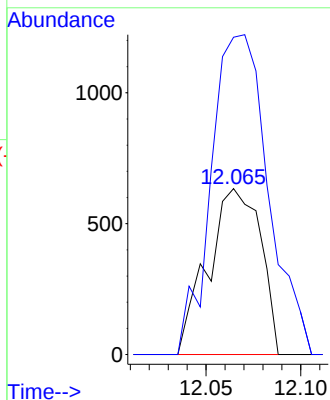
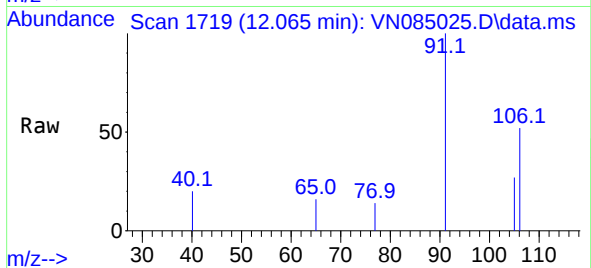




#67
m/p-Xylenes
Concen: 0.481 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

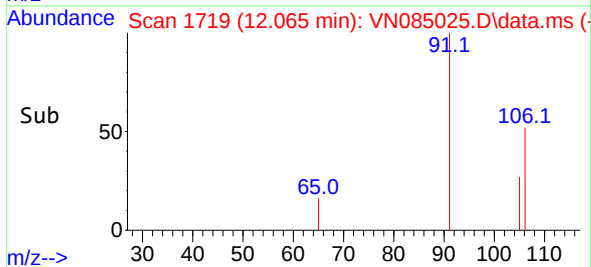
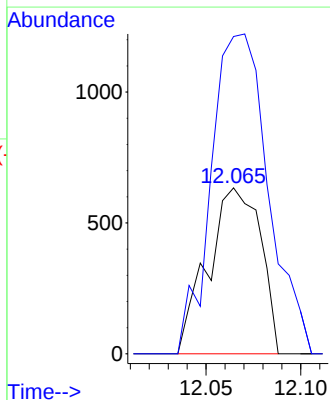
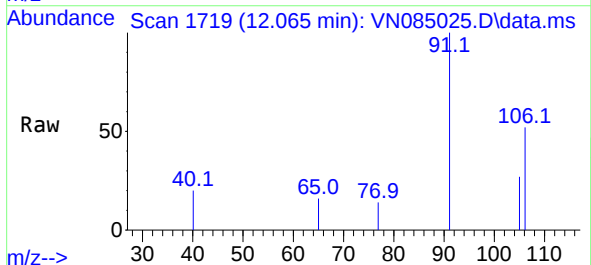
Instrument :
MSVOA_N
ClientSampleId :

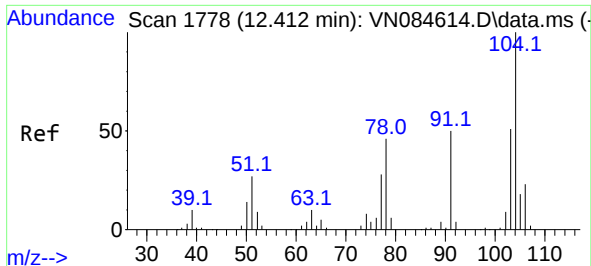
Tgt Ion:106 Resp: 1228
Ion Ratio Lower Upper
106 100
91 208.8 168.1 252.1



#68
o-Xylene
Concen: 0.498 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.335 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Tgt Ion:106 Resp: 1228
Ion Ratio Lower Upper
106 100
91 208.8 107.7 322.9





#69

Styrene

Concen: 0.364 ug/l

RT: 12.412 min Scan# 11

Delta R.T. -0.000 min

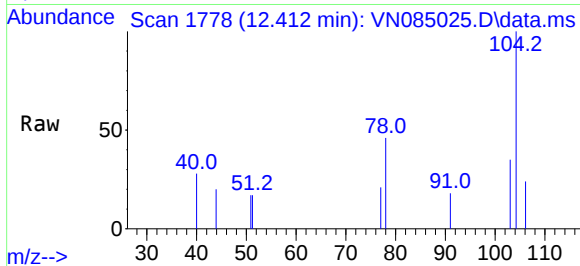
Lab File: VN085025.D

Acq: 25 Nov 2024 12:39

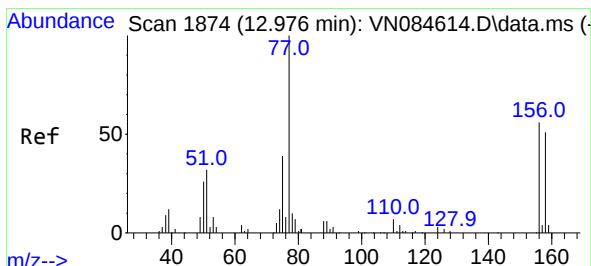
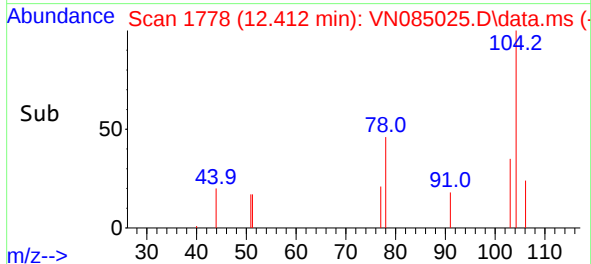
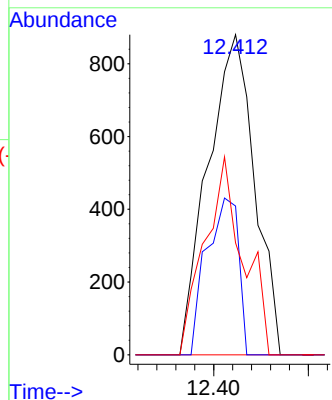
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:104	Resp:	1505
Ion	Ratio	Lower Upper
104	100	
78	33.6	41.5 62.3#
103	44.5	44.6 67.0#



#73

Bromobenzene

Concen: 0.665 ug/l

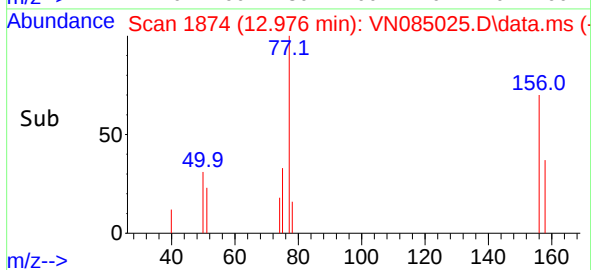
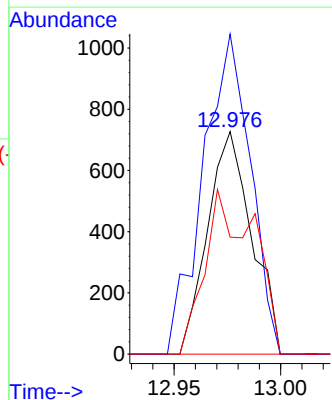
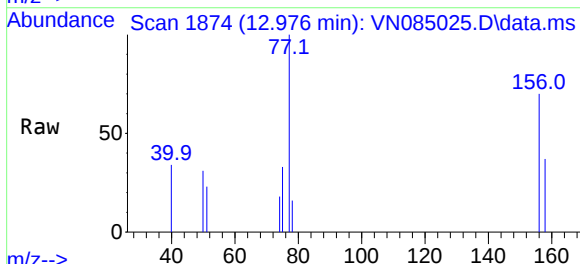
RT: 12.976 min Scan# 1874

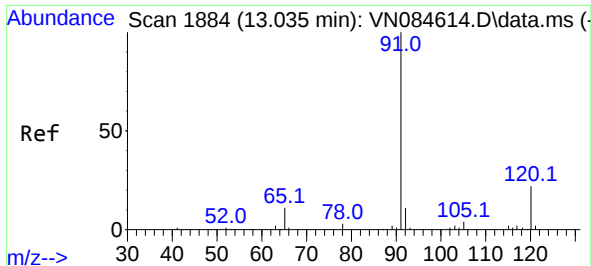
Delta R.T. -0.000 min

Lab File: VN085025.D

Acq: 25 Nov 2024 12:39

Tgt Ion:156	Resp:	1050
Ion	Ratio	Lower Upper
156	100	
77	154.4	0.0 427.6
158	57.6	0.0 191.6

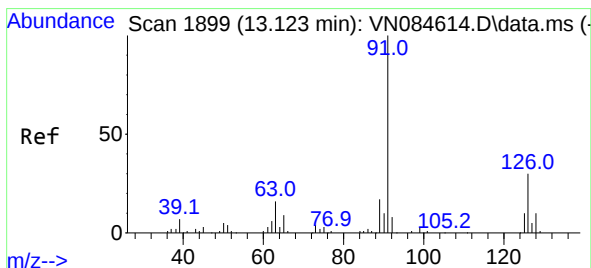
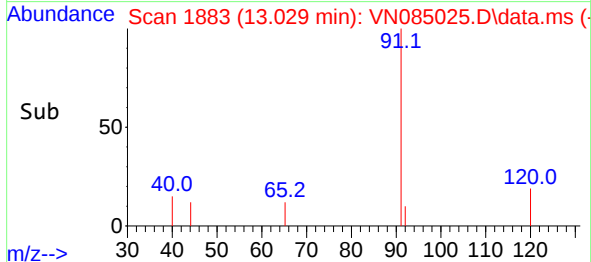
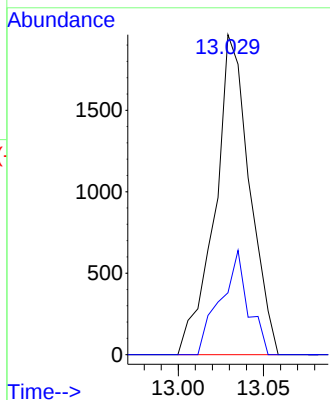
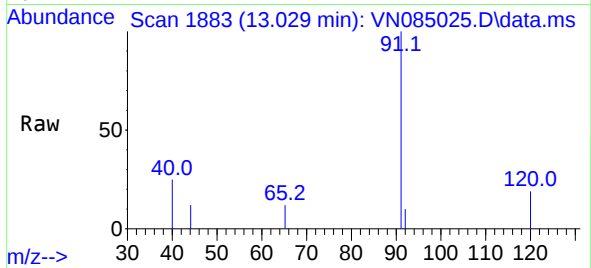




#74
n-propylbenzene
Concen: 0.388 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

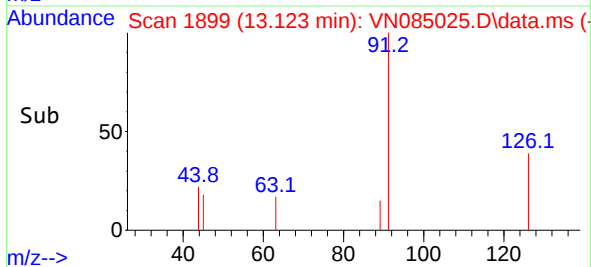
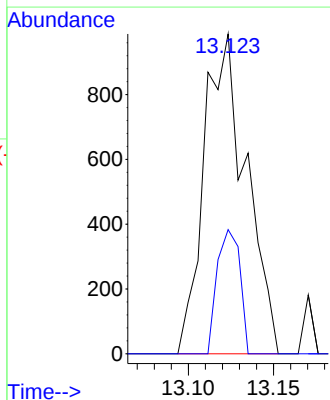
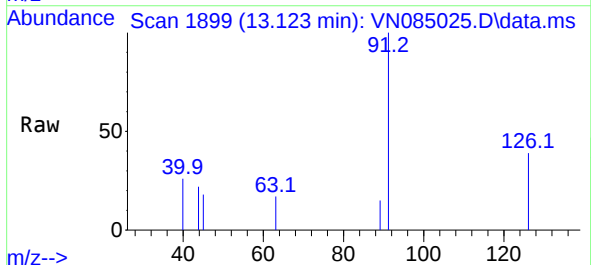
Instrument :
MSVOA_N
ClientSampleId :

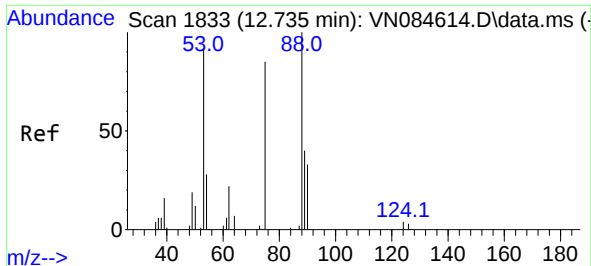
Tgt Ion: 91 Resp: 2779
Ion Ratio Lower Upper
91 100
120 26.0 0.0 44.0



#75
2-Chlorotoluene
Concen: 0.364 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

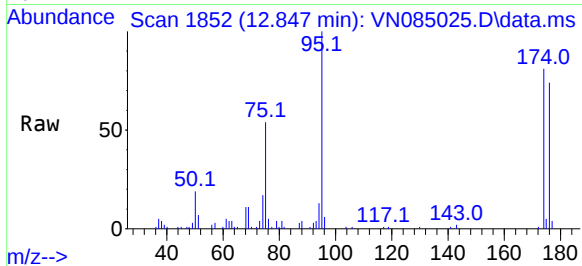
Tgt Ion: 91 Resp: 1698
Ion Ratio Lower Upper
91 100
126 20.9 0.0 60.8



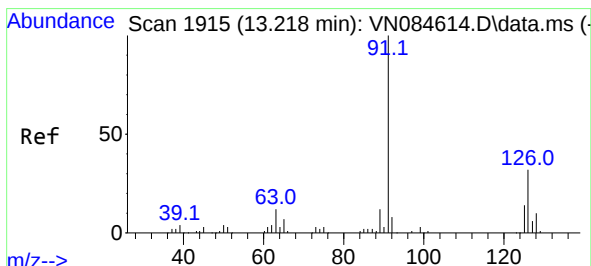
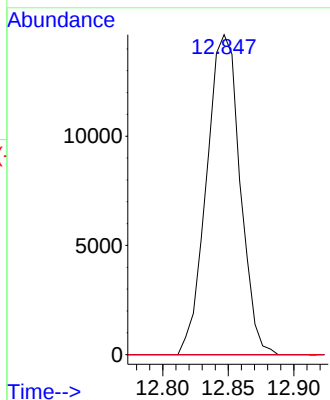
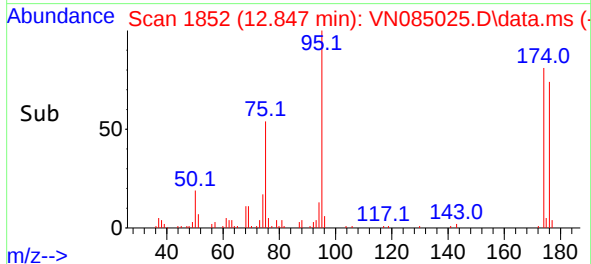


#77
t-1,4-Dichloro-2-butene
Concen: 37.479 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

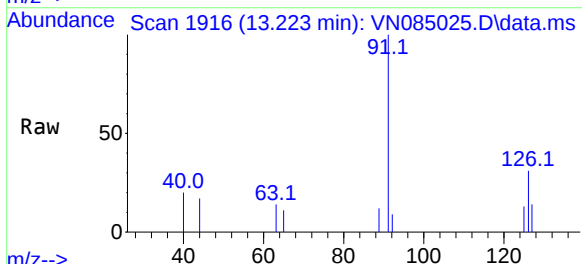
Instrument :
MSVOA_N
ClientSampleId :



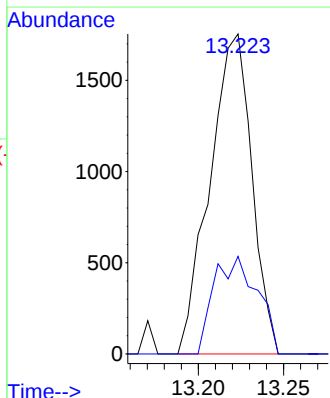
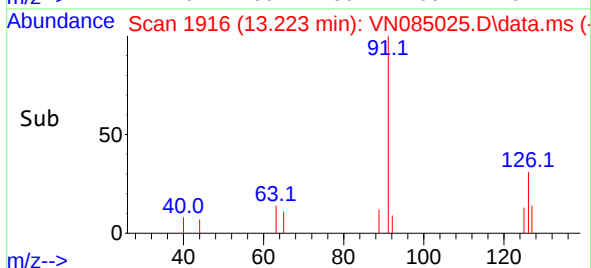
Tgt Ion: 75 Resp: 26051
Ion Ratio Lower Upper
75 100
53 0.0 52.4 157.2#
89 0.0 26.0 78.0#

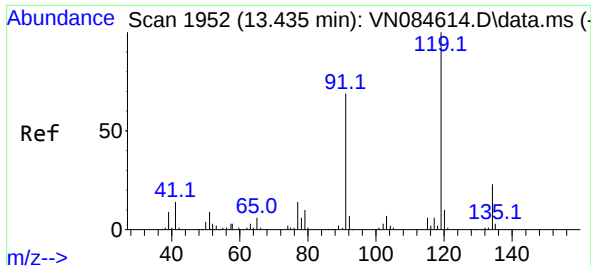


#78
4-Chlorotoluene
Concen: 0.638 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39



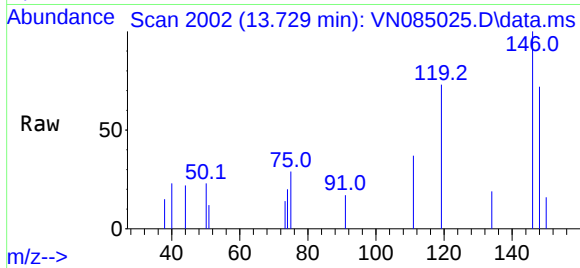
Tgt Ion: 91 Resp: 3007
Ion Ratio Lower Upper
91 100
126 31.5 0.0 63.4



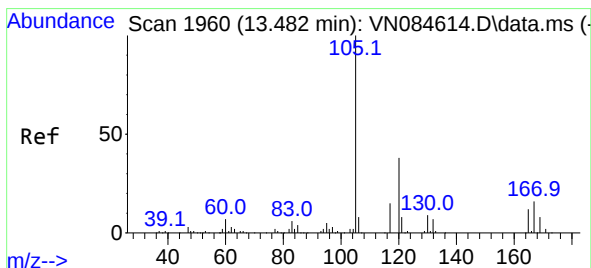
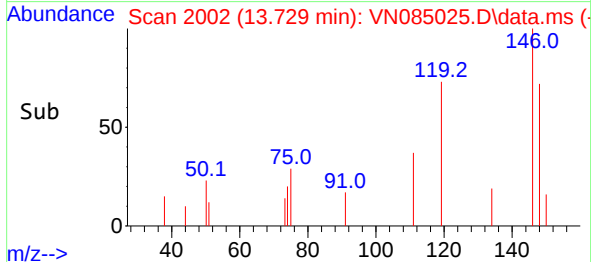
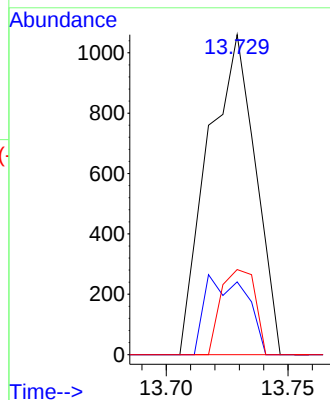


#79
tert-butylbenzene
Concen: 0.333 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.294 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

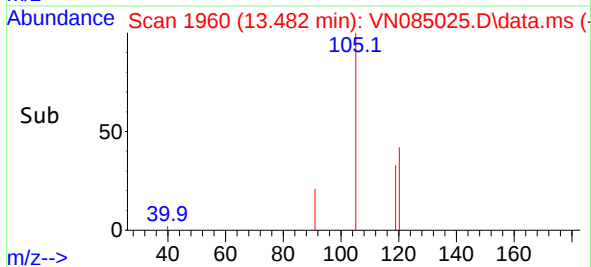
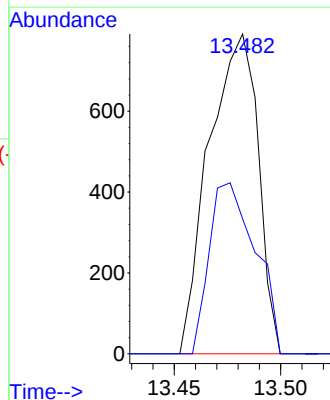
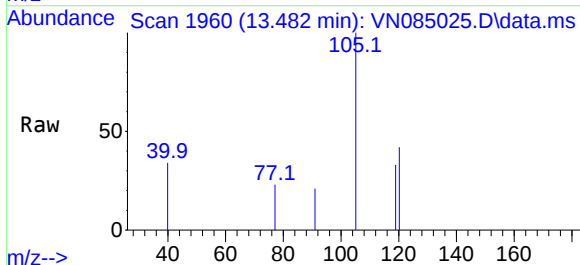


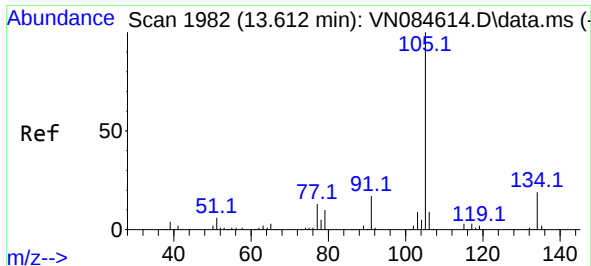
Tgt Ion:119 Resp: 1441
Ion Ratio Lower Upper
119 100
91 11.3 0.0 143.2
134 19.1 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 0.240 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

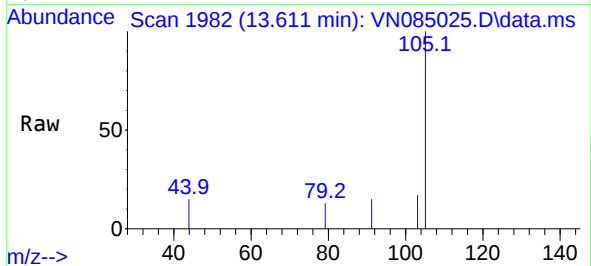
Tgt Ion:105 Resp: 1268
Ion Ratio Lower Upper
105 100
120 50.5 0.0 90.4



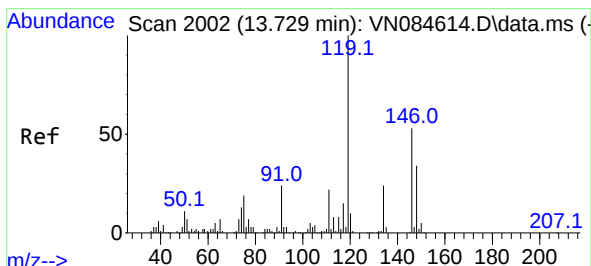
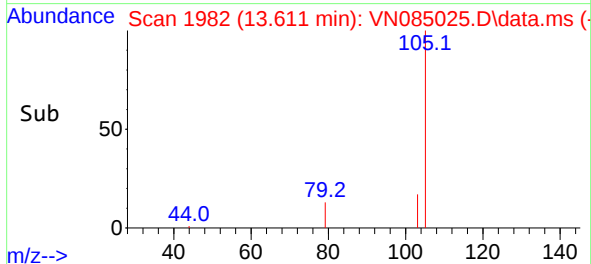
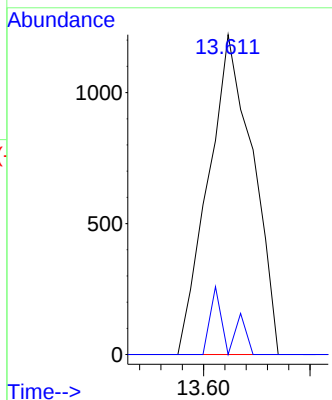


#81
sec-Butylbenzene
Concen: 0.297 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

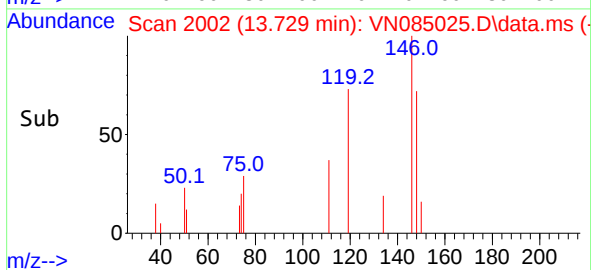
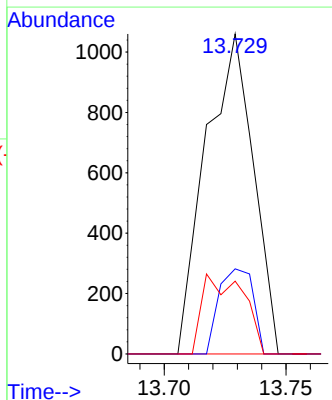
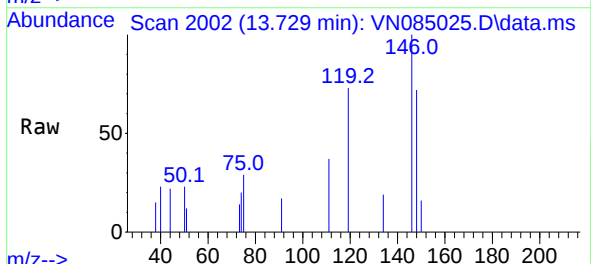


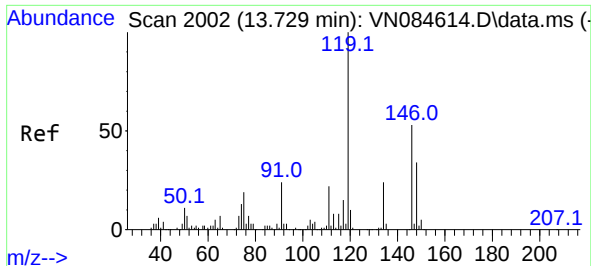
Tgt Ion:105 Resp: 1771
Ion Ratio Lower Upper
105 100
134 3.1 0.0 39.0



#82
p-Isopropyltoluene
Concen: 0.288 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

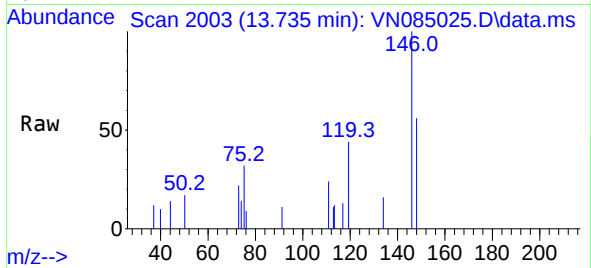
Tgt Ion:119 Resp: 1441
Ion Ratio Lower Upper
119 100
134 19.1 0.0 51.4
91 11.3 0.0 50.4



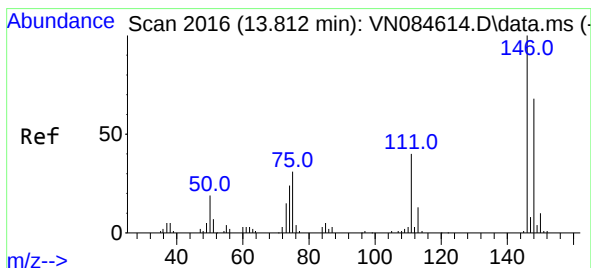
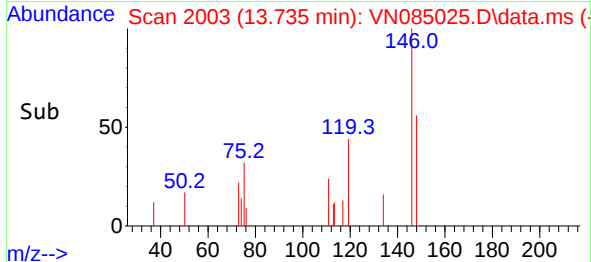
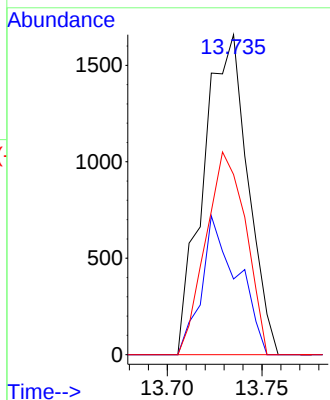


#83
1,3-Dichlorobenzene
Concen: 0.924 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

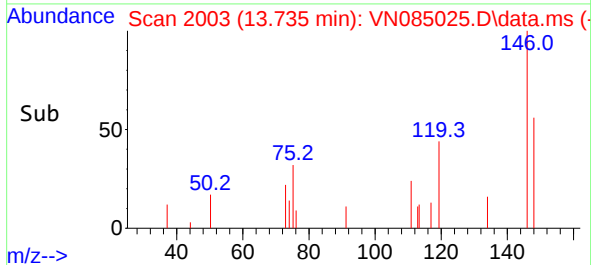
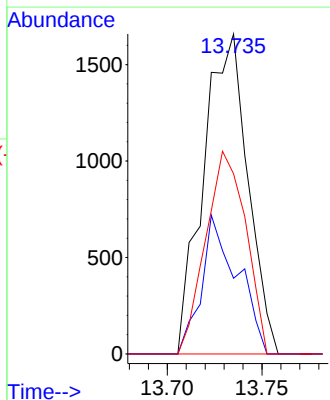
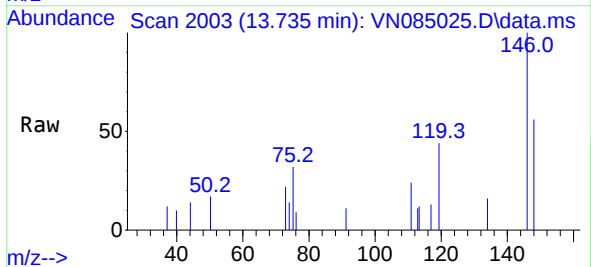


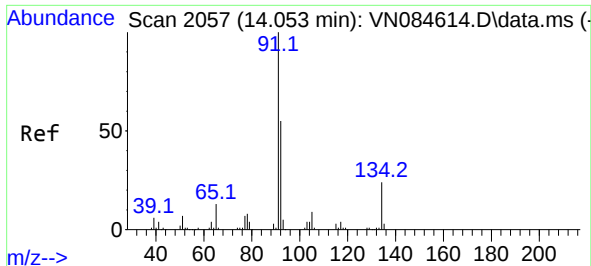
Tgt Ion:146 Resp: 2700
Ion Ratio Lower Upper
146 100
111 35.1 21.0 63.0
148 57.4 31.3 93.8



#84
1,4-Dichlorobenzene
Concen: 0.936 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.077 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

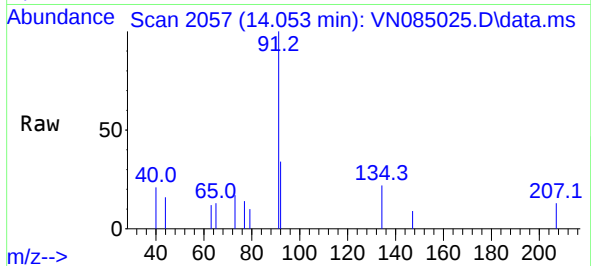
Tgt Ion:146 Resp: 2700
Ion Ratio Lower Upper
146 100
111 35.1 20.2 60.5
148 57.4 32.6 98.0



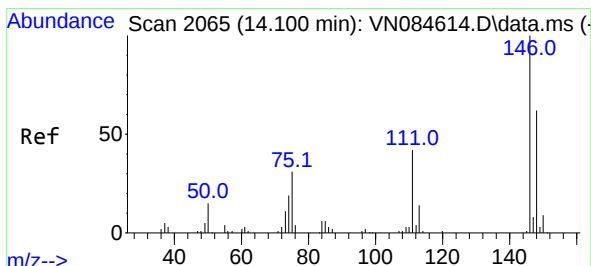
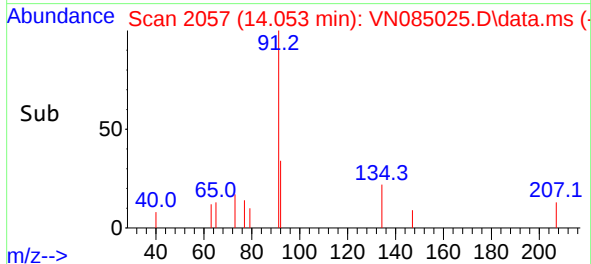
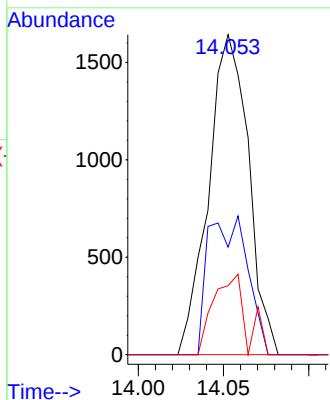


#85
n-Butylbenzene
Concen: 0.637 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

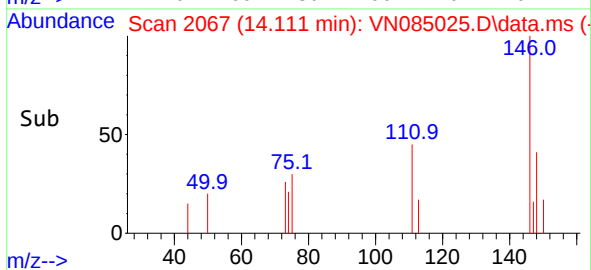
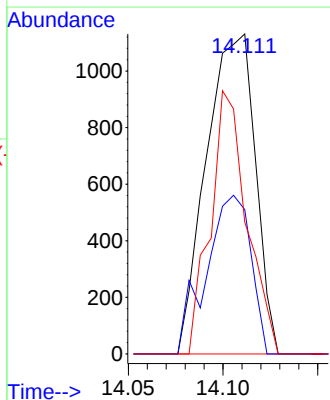
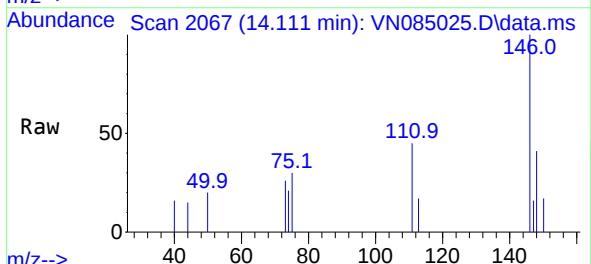


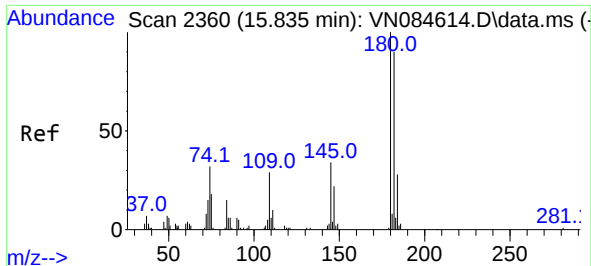
Tgt Ion: 91 Resp: 2679
Ion Ratio Lower Upper
91 100
92 24.9 0.0 106.2
134 17.4 0.0 48.2



#87
1,2-Dichlorobenzene
Concen: 0.706 ug/l
RT: 14.111 min Scan# 2067
Delta R.T. 0.012 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Tgt Ion:146 Resp: 2032
Ion Ratio Lower Upper
146 100
111 45.2 22.4 67.0
148 61.3 32.6 98.0





#89

1,2,4-Trichlorobenzene

Concen: 1.526 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.441 min

Lab File: VN085025.D

Acq: 25 Nov 2024 12:39

Instrument :

MSVOA_N

ClientSampleId :

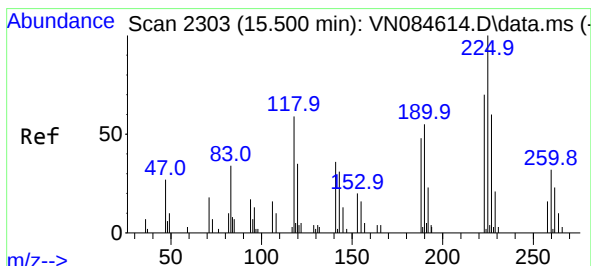
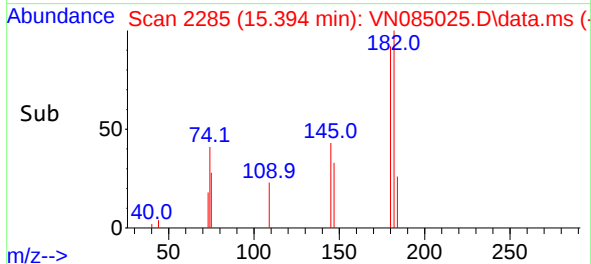
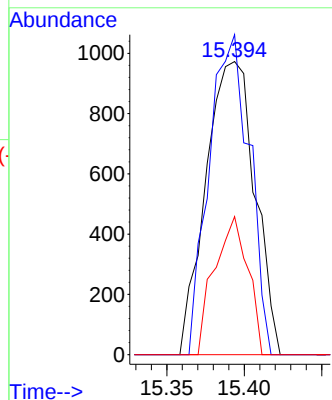
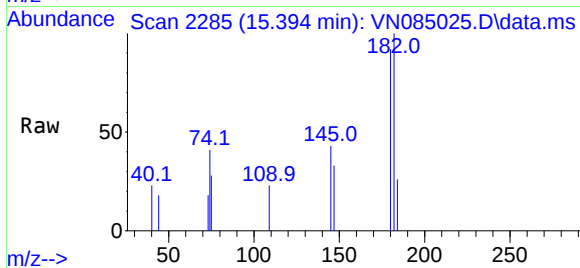
Tgt Ion:180 Resp: 2139

Ion Ratio Lower Upper

180 100

182 89.9 73.0 109.6

145 32.1 26.5 39.7



#90

Hexachlorobutadiene

Concen: 1.132 ug/l

RT: 15.505 min Scan# 2304

Delta R.T. 0.006 min

Lab File: VN085025.D

Acq: 25 Nov 2024 12:39

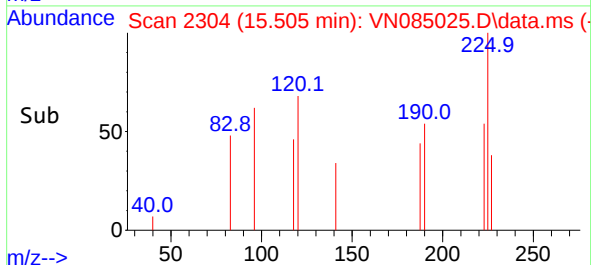
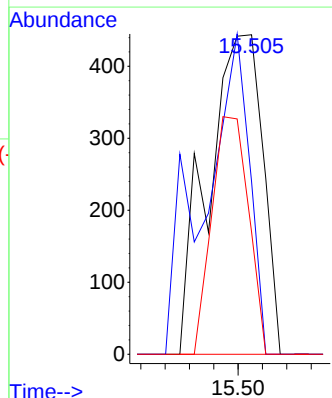
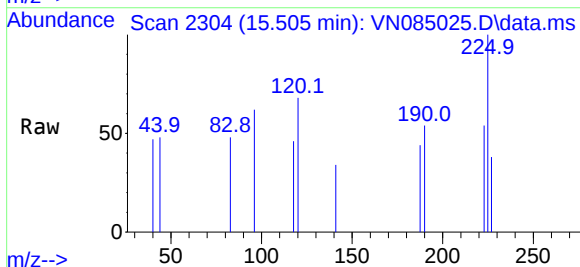
Tgt Ion:225 Resp: 693

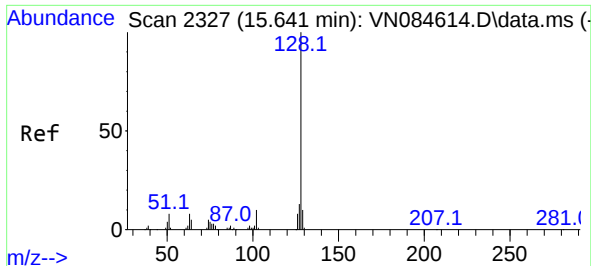
Ion Ratio Lower Upper

225 100

223 61.2 0.0 138.8

227 50.1 0.0 123.2

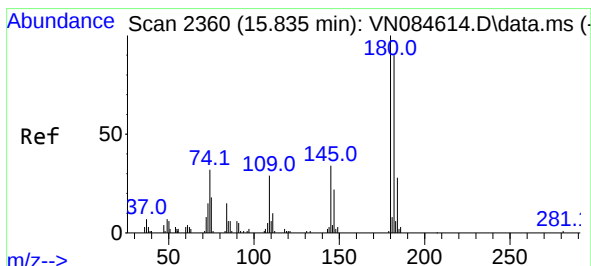
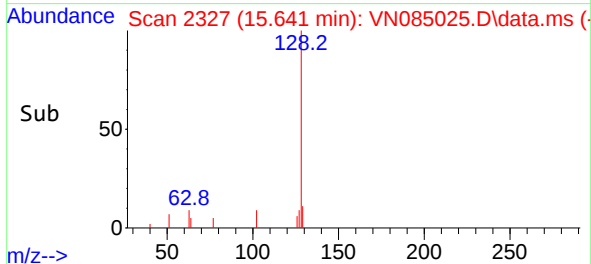
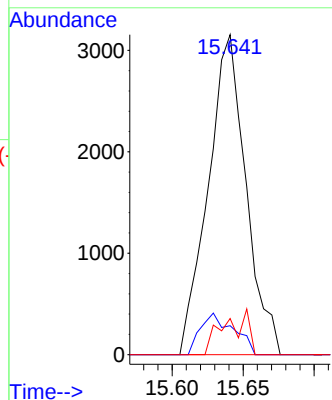
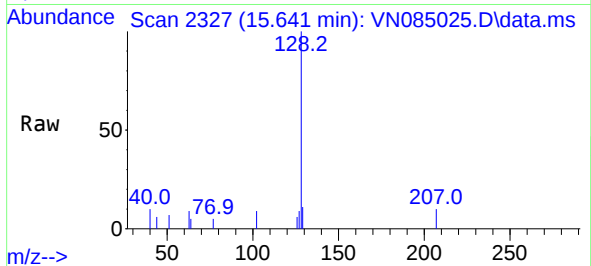




#91
Naphthalene
Concen: 1.302 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 5828
Ion Ratio Lower Upper
128 100
127 11.4 10.3 15.5
129 6.3 8.6 12.8#



#92
1,2,3-Trichlorobenzene
Concen: 1.434 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN085025.D
Acq: 25 Nov 2024 12:39

Tgt Ion:180 Resp: 2009
Ion Ratio Lower Upper
180 100
182 111.6 0.0 182.6
145 23.9 0.0 66.2

