

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
 Data File : VN084874.D
 Acq On : 15 Nov 2024 17:12
 Operator : JC\MD
 Sample : P4853-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 15 22:27:10 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)

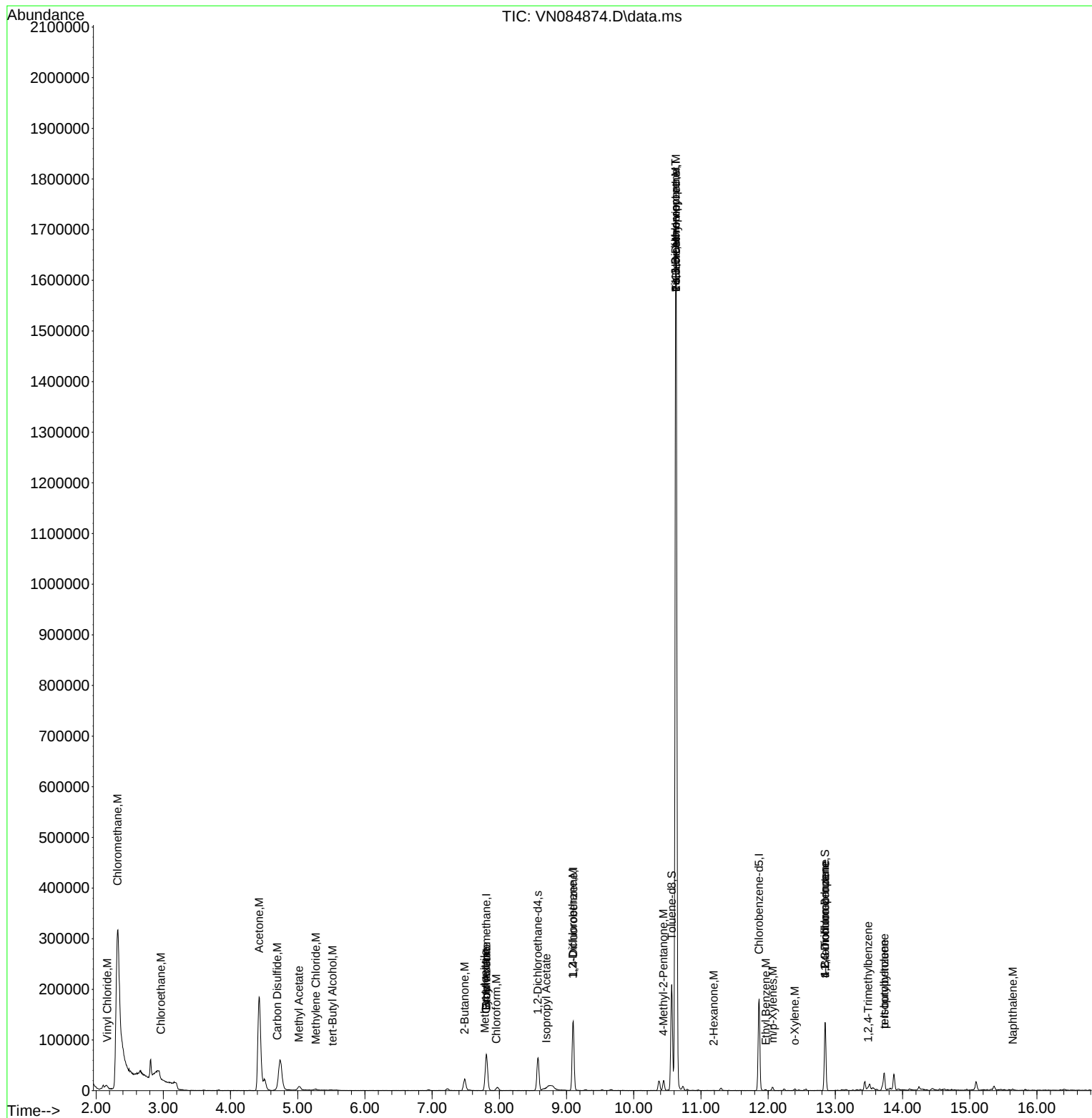
Internal Standards						
1) Bromochloromethane	7.806	128	22235	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	116438	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	107920	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	56009	31.333	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.433%
60) 4-Bromofluorobenzene	12.847	95	47167	25.383	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.600%
63) Toluene-d8	10.565	98	145584	28.496	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.000%
Target Compounds						
					Qvalue	
3) Chloromethane	2.318	50	19516	12.534	ug/l #	43
4) Vinyl Chloride	2.166	62	398	0.275	ug/l #	46
6) Chloroethane	2.965	64	4853	5.112	ug/l #	48
12) Methyl Acetate	5.018	43	15535	7.691	ug/l #	70
15) Acetone	4.424	58	111509	656.772	ug/l	92
16) Carbon Disulfide	4.695	76	13265	3.479	ug/l #	91
18) Methylene Chloride	5.271	84	934	0.615	ug/l	85
23) tert-Butyl Alcohol	5.518	59	126	0.546	ug/l #	100
25) Chloroform	7.953	83	4053	1.488	ug/l	91
26) Cyclohexane	7.800	56	472	0.232	ug/l #	9
30) 2-Butanone	7.483	43	36940	45.661	ug/l	99
35) Methacrylonitrile	7.783	41	1418	1.479	ug/l #	44
36) 1,2-Dichloroethane	9.094	62	4288	2.224	ug/l #	74
43) Ethyl Acetate	7.806	43	1693	0.996	ug/l	99
44) Isopropyl Acetate	8.700	43	1351	0.392	ug/l #	50
48) t-1,3-Dichloropropene	10.624	75	9121	4.414	ug/l #	1
49) cis-1,3-Dichloropropene	10.624	75	9121	4.118	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.630	63	94645	95.642	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	13430	7.888	ug/l	98
59) 2-Hexanone	11.188	43	281	0.225	ug/l #	33
62) Toluene	10.630	91	1353198	220.149	ug/l	99
66) Ethyl Benzene	11.965	91	1938	0.300	ug/l #	71
67) m/p-Xylenes	12.071	106	1875	0.758	ug/l	77
68) o-Xylene	12.394	106	766	0.321	ug/l	87
72) 1,2,3-Trichloropropane	12.847	75	23920	14.583	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	23920	35.558	ug/l #	7
79) tert-butylbenzene	13.729	119	18116	4.326	ug/l	63
80) 1,2,4-Trimethylbenzene	13.488	105	4260	0.834	ug/l	85
82) p-Isopropyltoluene	13.729	119	18116	3.737	ug/l	93
91) Naphthalene	15.641	128	3443	0.795	ug/l #	75

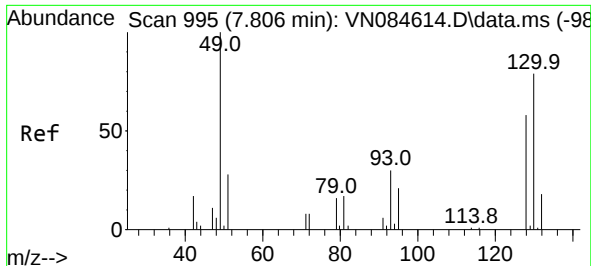
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 15 22:27:10 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
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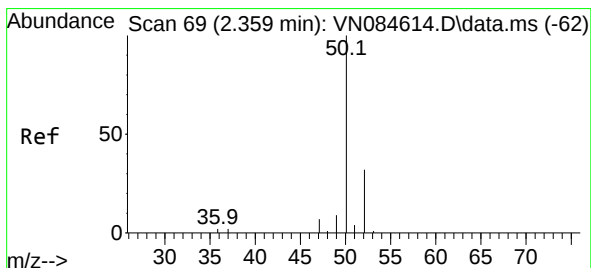
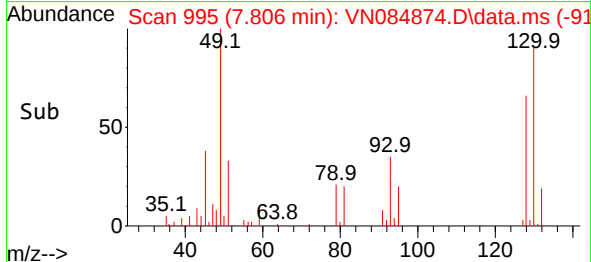
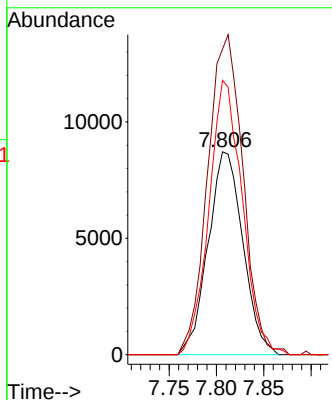
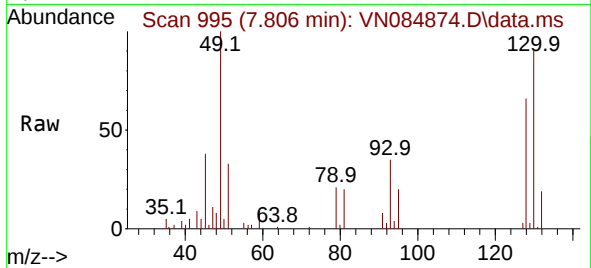




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

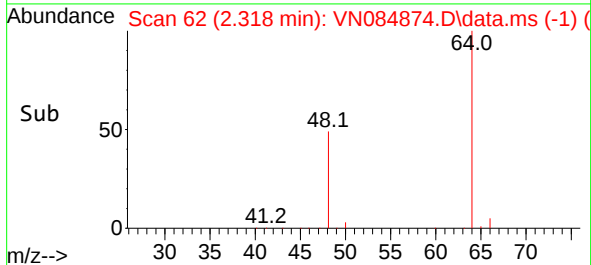
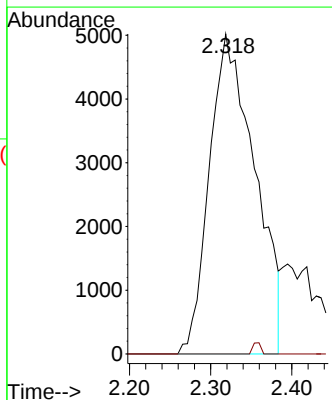
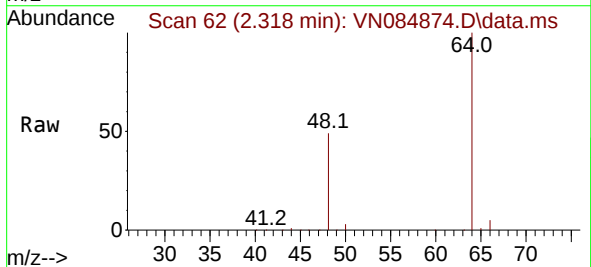
Instrument :
MSVOA_N
ClientSampleId :

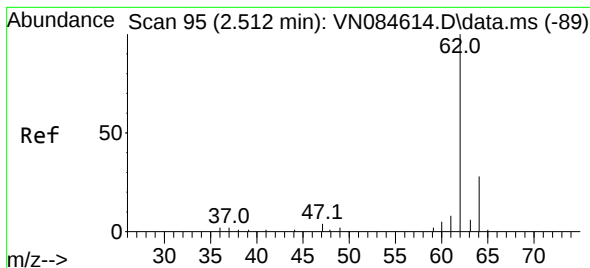
Tgt Ion:128 Resp: 22235
Ion Ratio Lower Upper
128 100
49 159.6 0.0 427.0
130 129.3 0.0 322.2



#3
Chloromethane
Concen: 12.534 ug/l
RT: 2.318 min Scan# 62
Delta R.T. -0.041 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 50 Resp: 19516
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#





#4

Vinyl Chloride

Concen: 0.275 ug/l

RT: 2.166 min Scan# 3

Delta R.T. -0.347 min

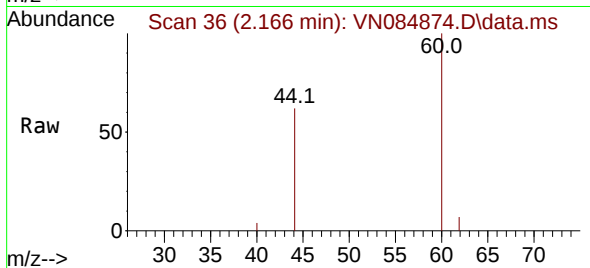
Lab File: VN084874.D

Acq: 15 Nov 2024 17:12

Instrument :

MSVOA_N

ClientSampleId :

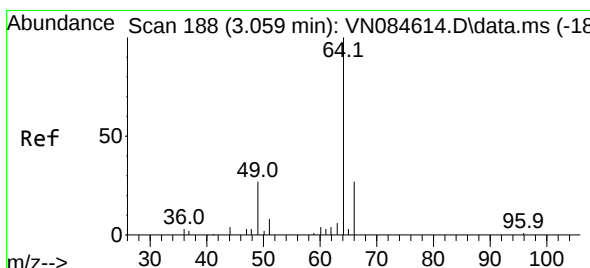
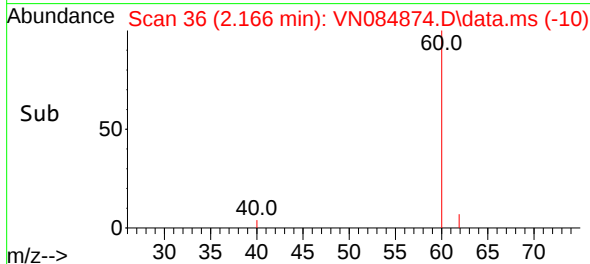
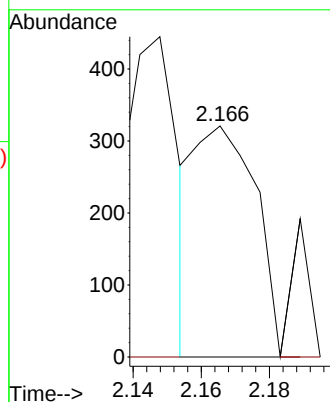


Tgt Ion: 62 Resp: 398

Ion Ratio Lower Upper

62 100

64 0.0 23.1 34.7#



#6

Chloroethane

Concen: 5.112 ug/l

RT: 2.965 min Scan# 172

Delta R.T. -0.094 min

Lab File: VN084874.D

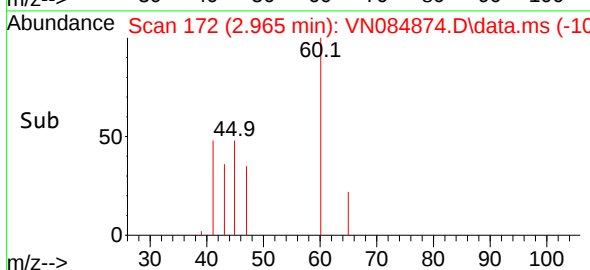
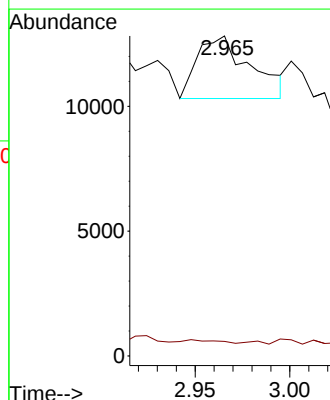
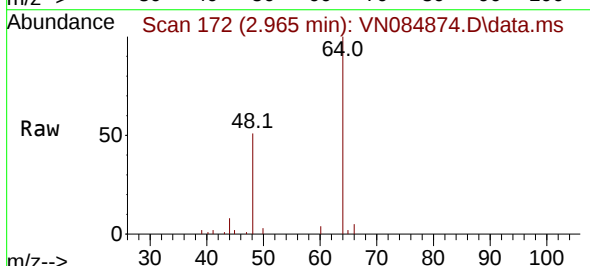
Acq: 15 Nov 2024 17:12

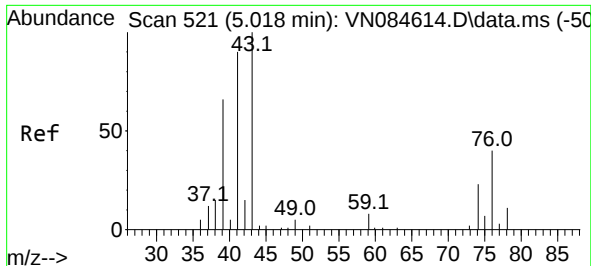
Tgt Ion: 64 Resp: 4853

Ion Ratio Lower Upper

64 100

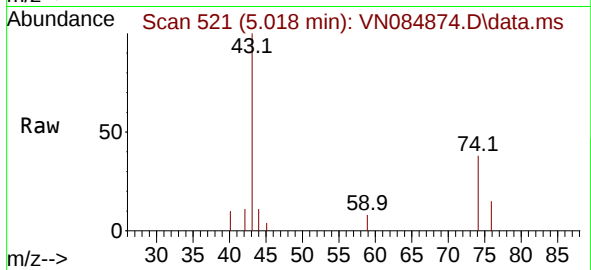
66 0.2 22.1 33.1#



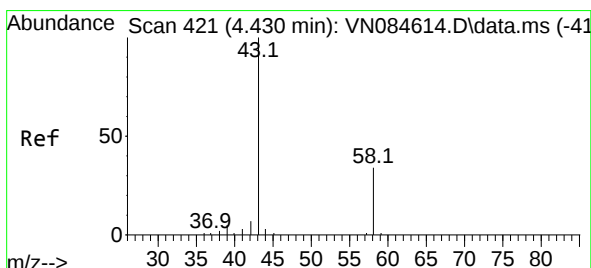
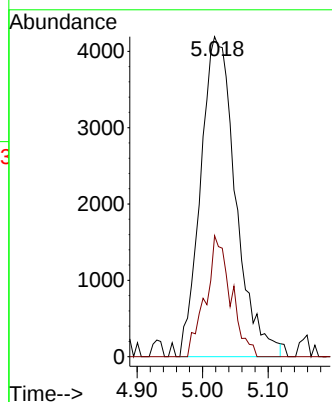
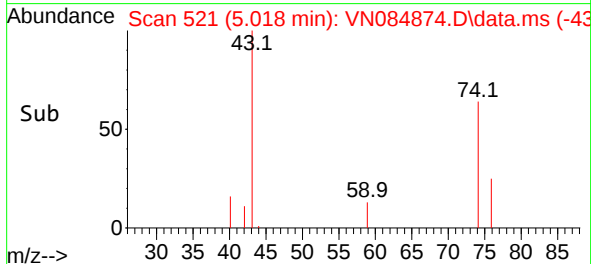


#12
Methyl Acetate
Concen: 7.691 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :

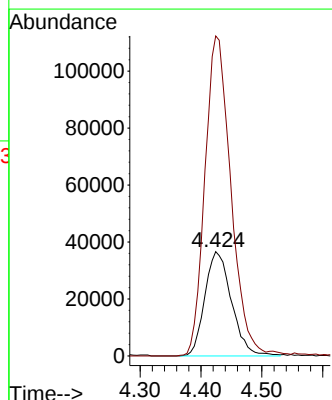
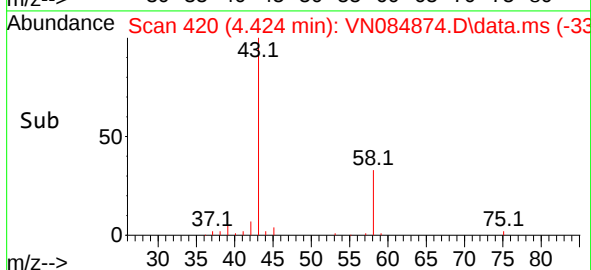
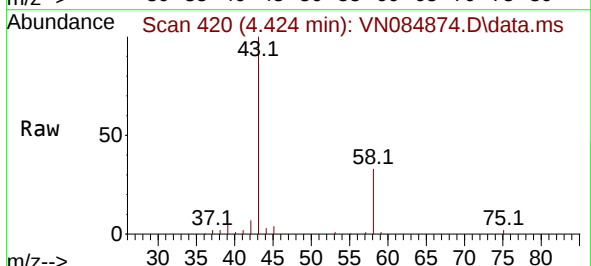


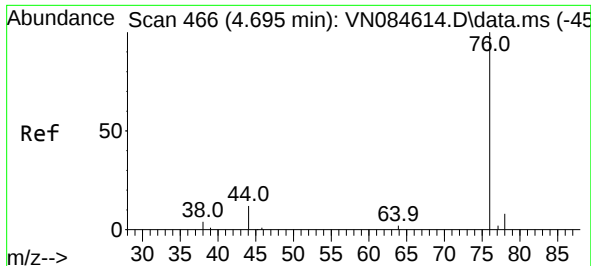
Tgt Ion: 43 Resp: 15535
Ion Ratio Lower Upper
43 100
74 38.6 19.0 28.4#



#15
Acetone
Concen: 656.772 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

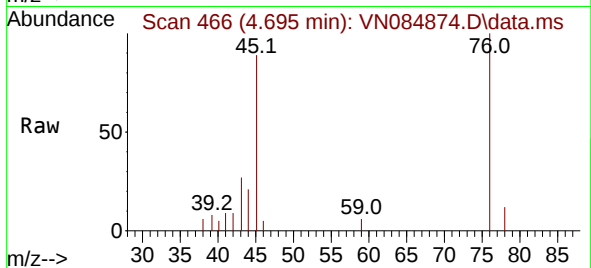
Tgt Ion: 58 Resp: 111509
Ion Ratio Lower Upper
58 100
43 306.2 233.0 349.6



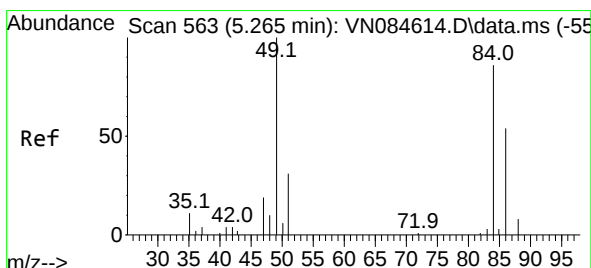
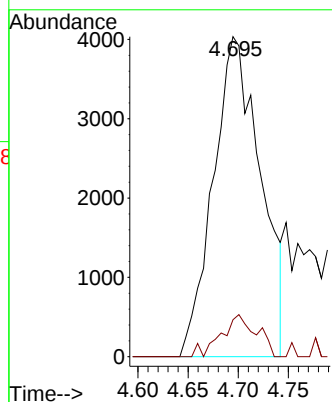
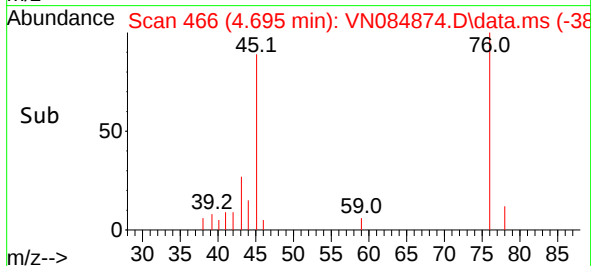


#16
Carbon Disulfide
Concen: 3.479 ug/l
RT: 4.695 min Scan# 466
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :

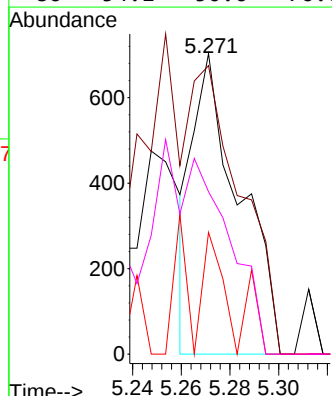
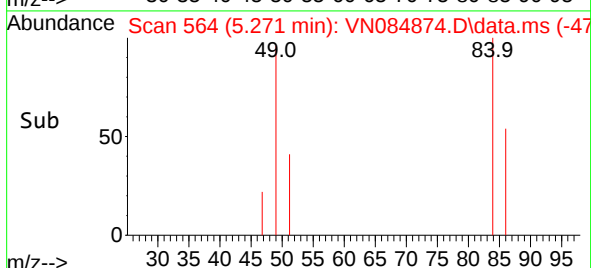
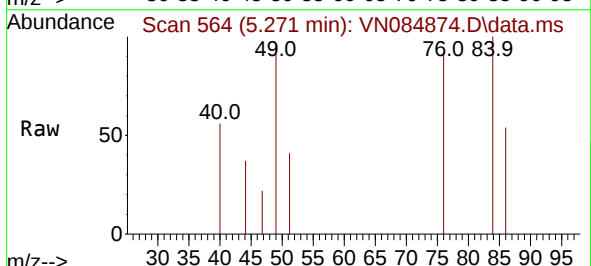


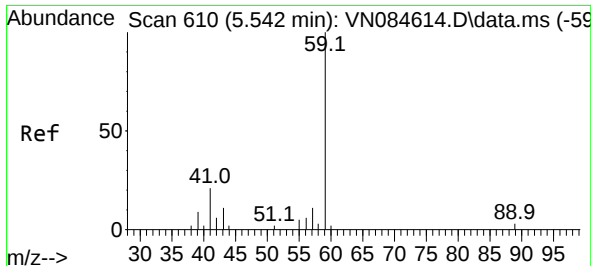
Tgt Ion: 76 Resp: 13265
Ion Ratio Lower Upper
76 100
78 11.5 6.6 9.8#



#18
Methylene Chloride
Concen: 0.615 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 84 Resp: 934
Ion Ratio Lower Upper
84 100
49 96.0 93.0 139.6
51 40.5 28.9 43.3
86 54.1 50.6 76.0

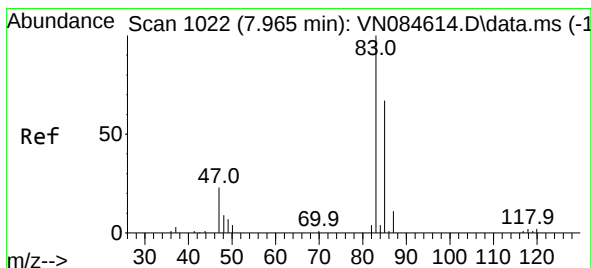
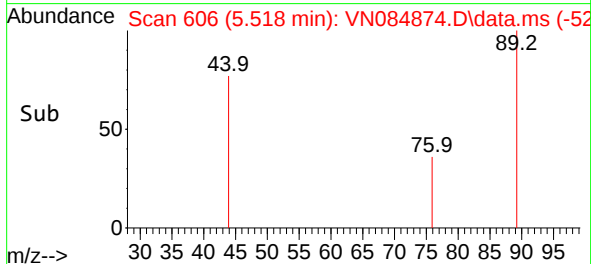
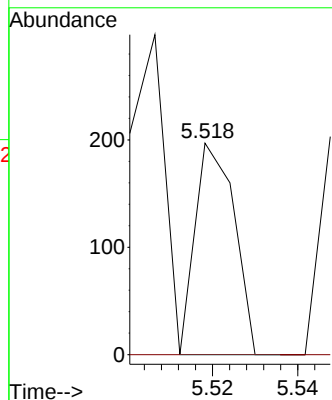
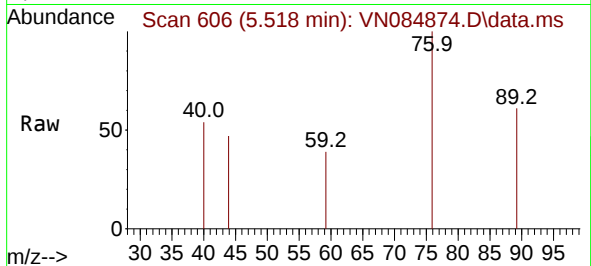




#23
tert-Butyl Alcohol
Concen: 0.546 ug/l
RT: 5.518 min Scan# 60
Delta R.T. -0.023 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

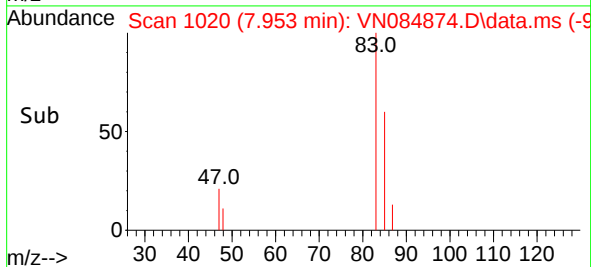
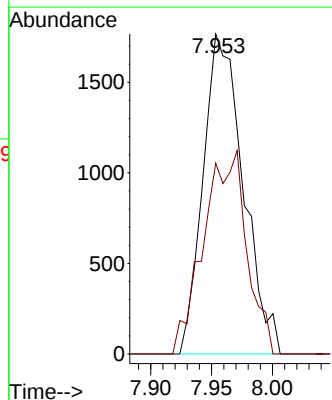
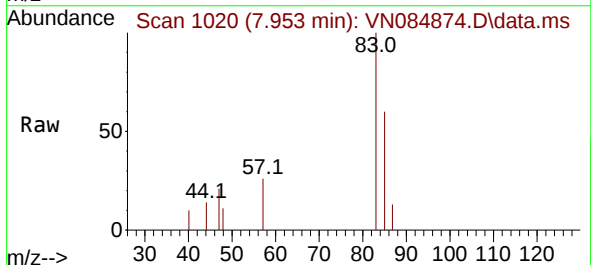
Instrument :
MSVOA_N
ClientSampleId :

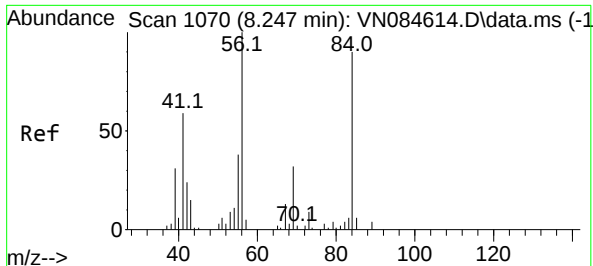
Tgt Ion: 59 Resp: 126
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.488 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.012 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

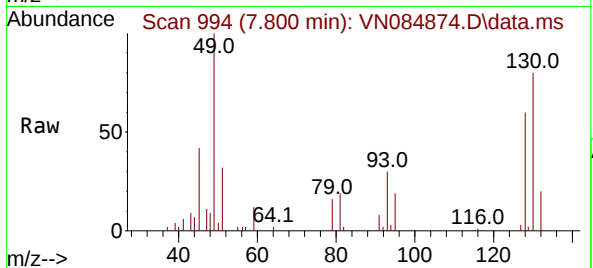
Tgt Ion: 83 Resp: 4053
Ion Ratio Lower Upper
83 100
85 59.6 53.4 80.2



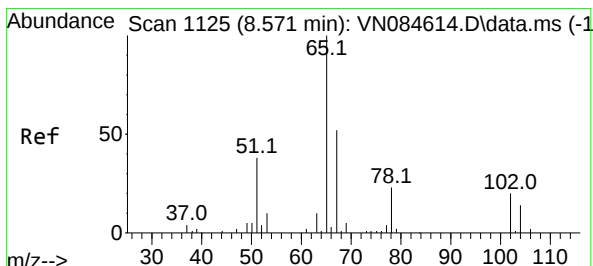
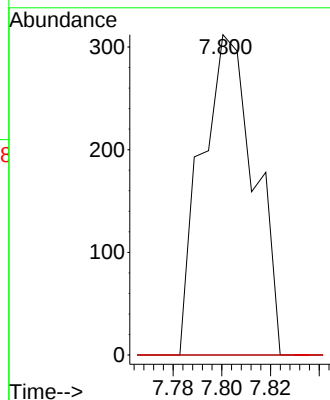
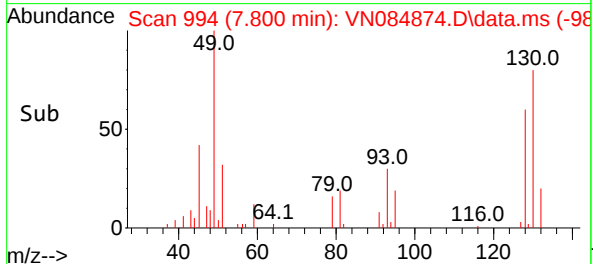


#26
Cyclohexane
Concen: 0.232 ug/l
RT: 7.800 min Scan# 994
Delta R.T. -0.447 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
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ClientSampleId :

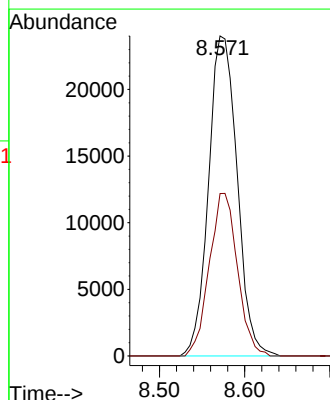
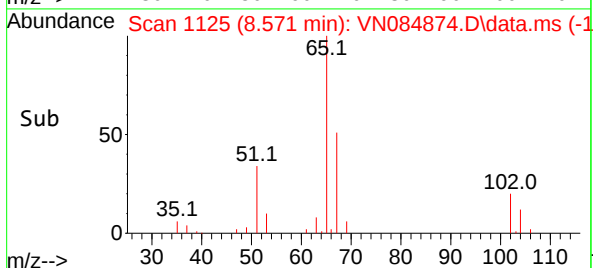
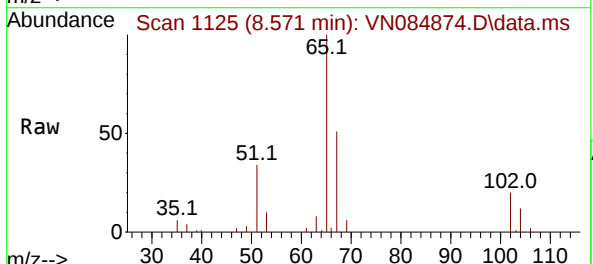


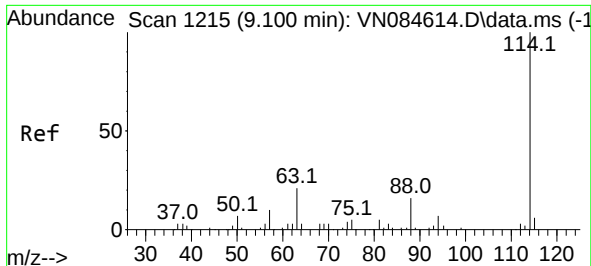
Tgt Ion: 56 Resp: 472
Ion Ratio Lower Upper
56 100
89 0.0 3.0 4.4#
84 0.0 70.6 106.0#



#27
1,2-Dichloroethane-d4
Concen: 31.333 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 65 Resp: 56009
Ion Ratio Lower Upper
65 100
67 50.0 40.7 61.1

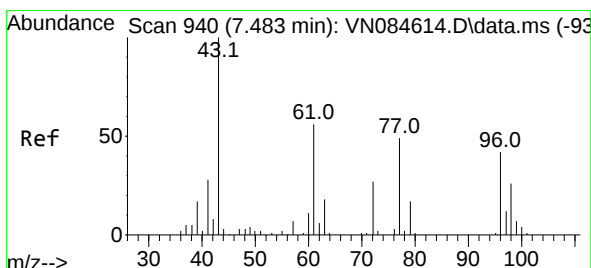
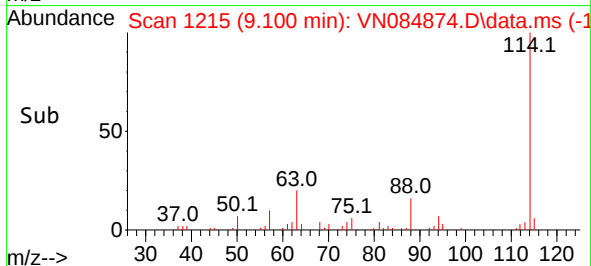
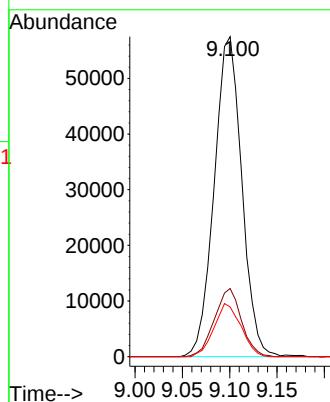
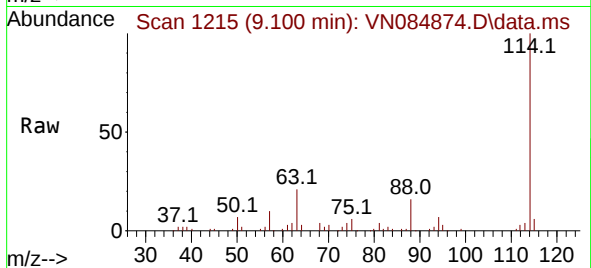




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

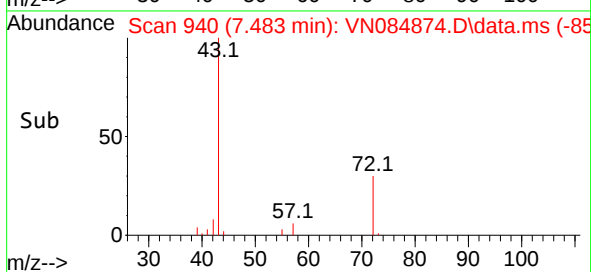
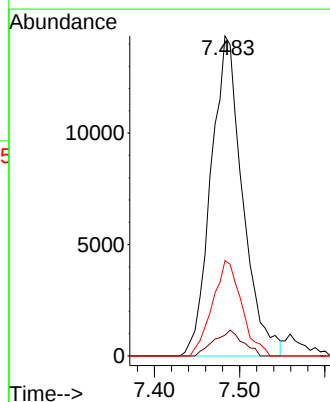
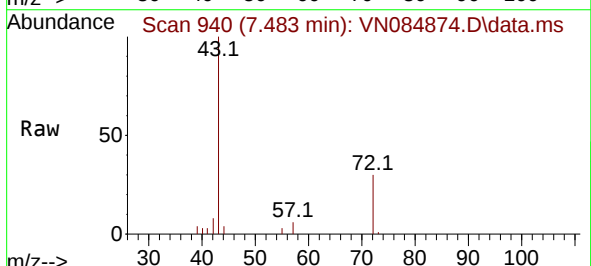
Instrument :
MSVOA_N
ClientSampleId :

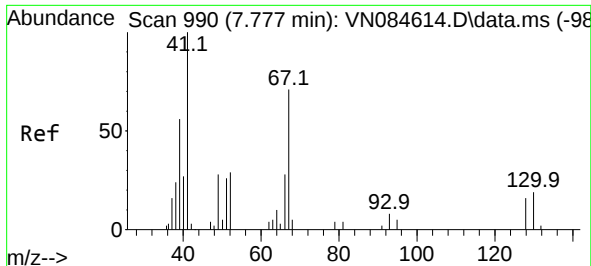
Tgt Ion:114 Resp: 116438
Ion Ratio Lower Upper
114 100
63 20.9 16.8 25.2
88 16.2 12.9 19.3



#30
2-Butanone
Concen: 45.661 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 43 Resp: 36940
Ion Ratio Lower Upper
43 100
57 7.4 6.2 9.4
72 27.5 21.5 32.3

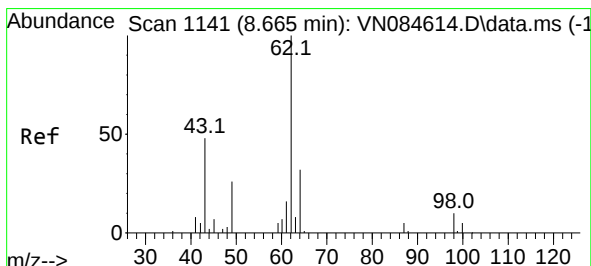
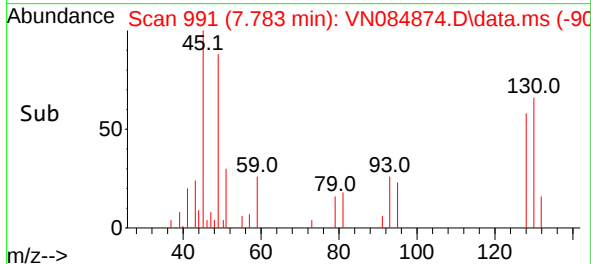
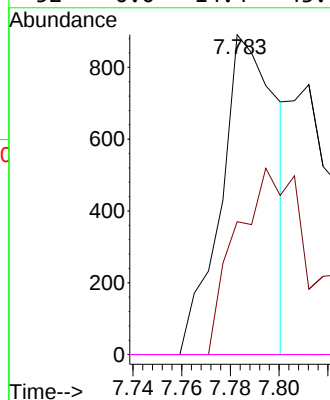
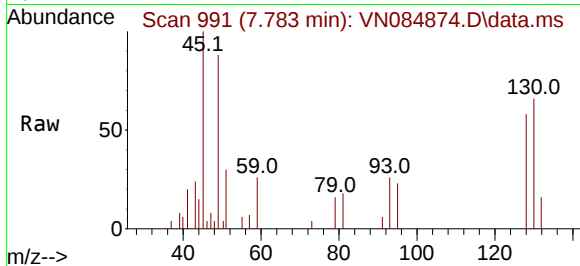




#35
Methacrylonitrile
Concen: 1.479 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

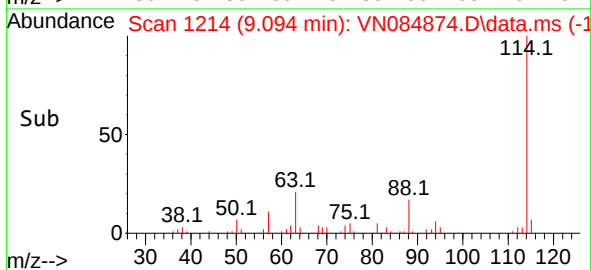
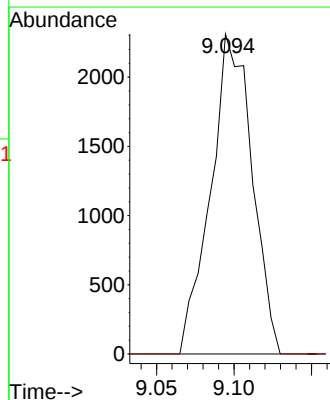
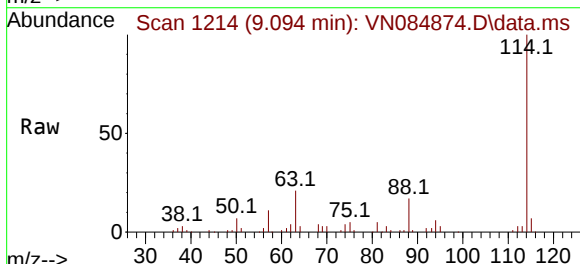
Instrument :
MSVOA_N
ClientSampleId :

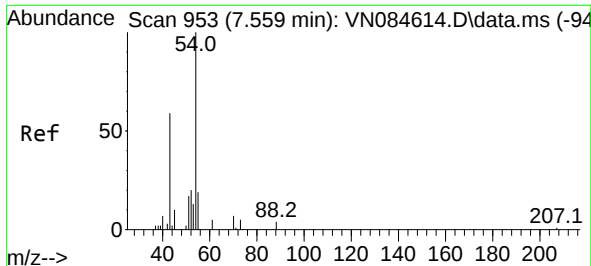
Tgt Ion: 41	Resp: 1418
Ion Ratio	Lower Upper
41 100	
39 41.5	28.2 84.6
67 0.0	35.6 106.8#
52 0.0	14.4 43.4#



#36
1,2-Dichloroethane
Concen: 2.224 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.430 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

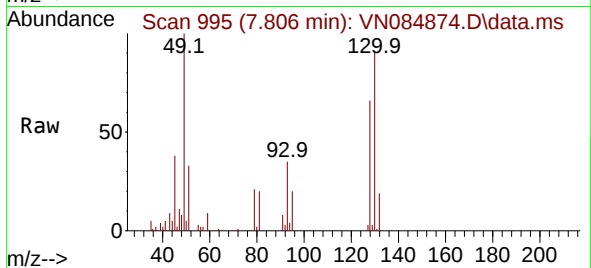
Tgt Ion: 62	Resp: 4288
Ion Ratio	Lower Upper
62 100	
98 0.0	7.8 11.6#



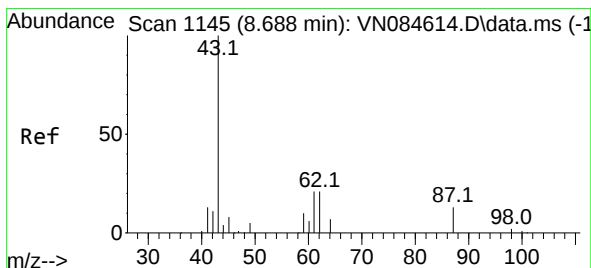
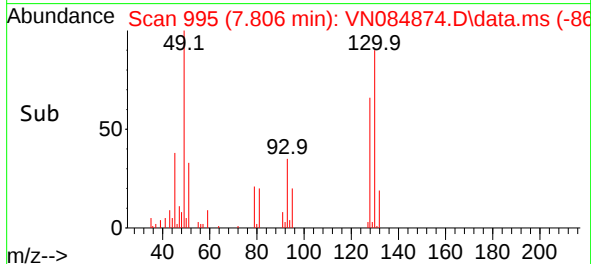
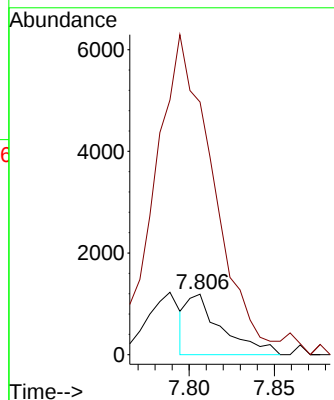


#43
Ethyl Acetate
Concen: 0.996 ug/l
RT: 7.806 min Scan# 91
Delta R.T. 0.247 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :

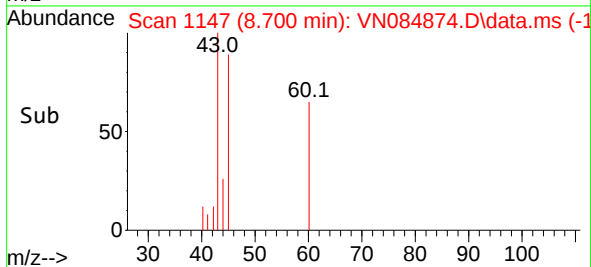
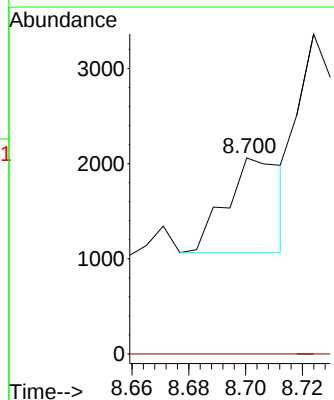
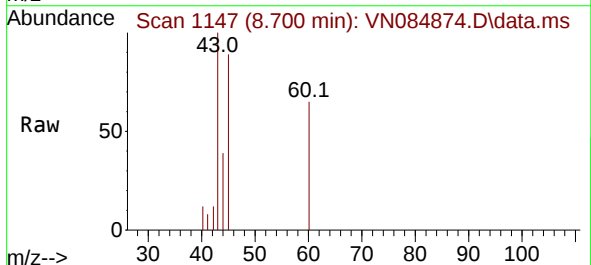


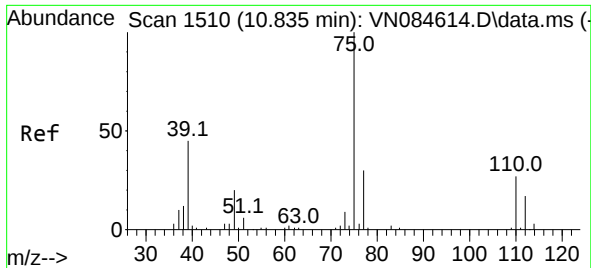
Tgt Ion: 43 Resp: 1693
Ion Ratio Lower Upper
43 100
45 13.5 11.0 16.4



#44
Isopropyl Acetate
Concen: 0.392 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.012 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 43 Resp: 1351
Ion Ratio Lower Upper
43 100
61 0.0 19.8 29.8#

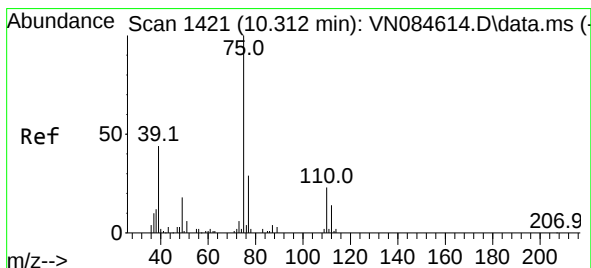
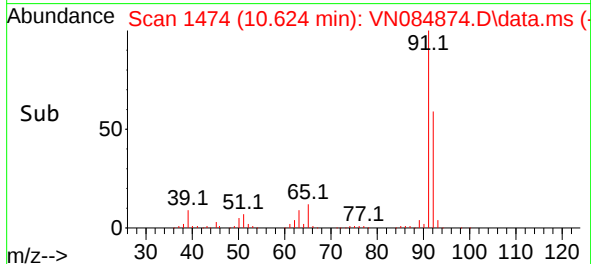
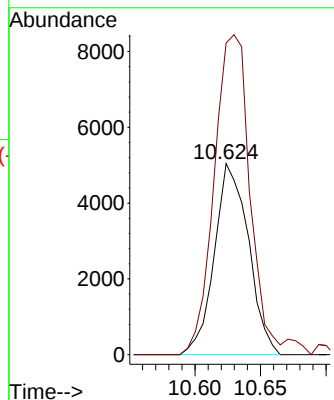
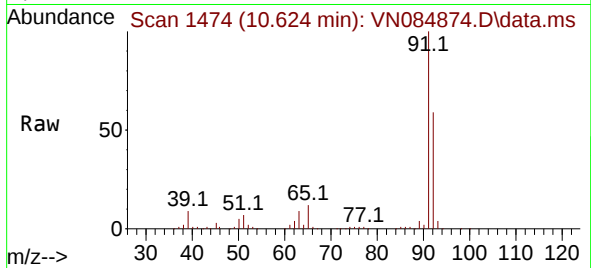




#48
t-1,3-Dichloropropene
Concen: 4.414 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.212 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

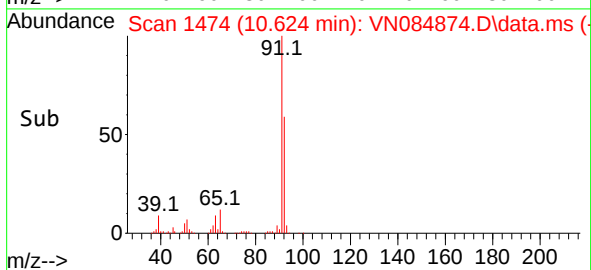
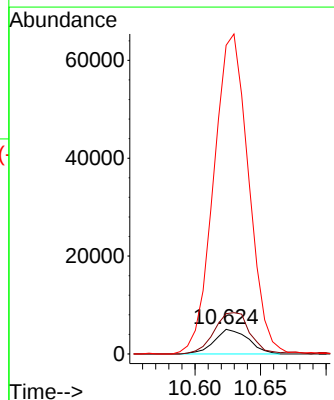
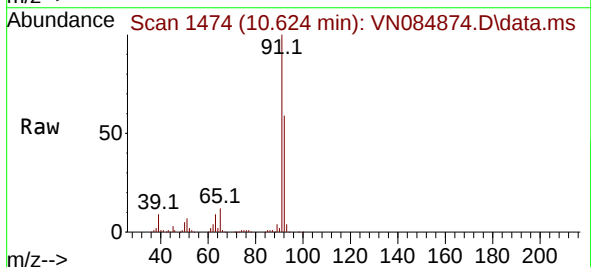
Instrument :
MSVOA_N
ClientSampleId :

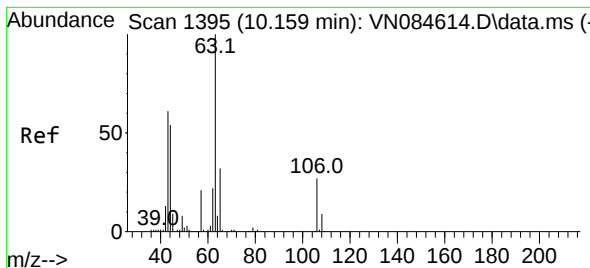
Tgt Ion: 75 Resp: 9121
Ion Ratio Lower Upper
75 100
77 163.2 24.4 36.6#



#49
cis-1,3-Dichloropropene
Concen: 4.118 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.312 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 75 Resp: 9121
Ion Ratio Lower Upper
75 100
77 163.2 23.4 35.2#
39 1241.7 35.4 53.2#

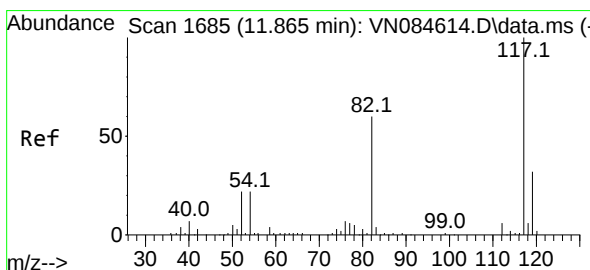
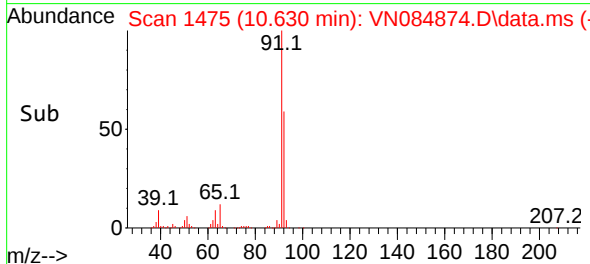
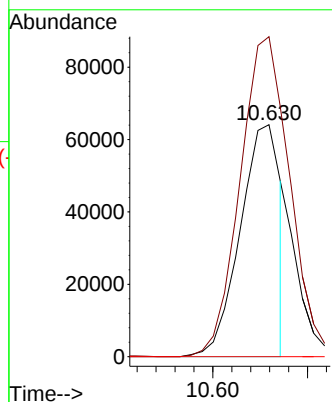
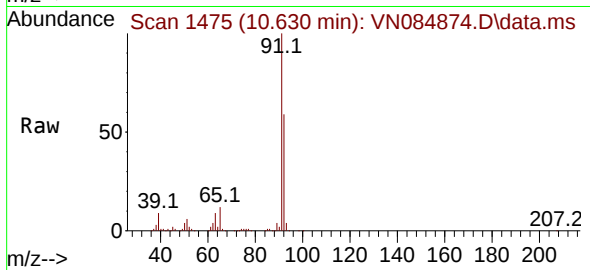




#55
2-Chloroethyl vinyl ether
Concen: 95.642 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.471 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

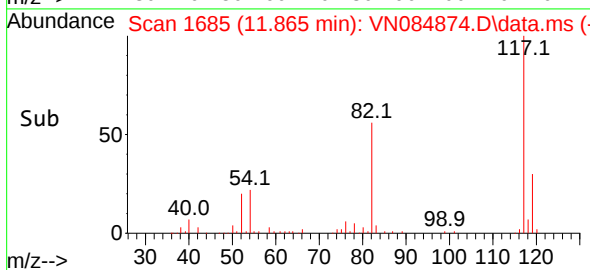
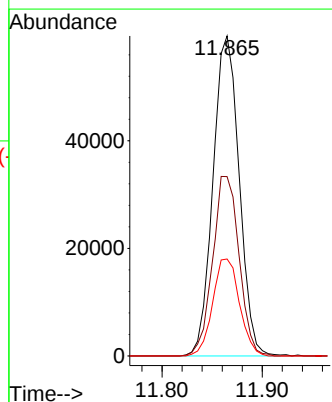
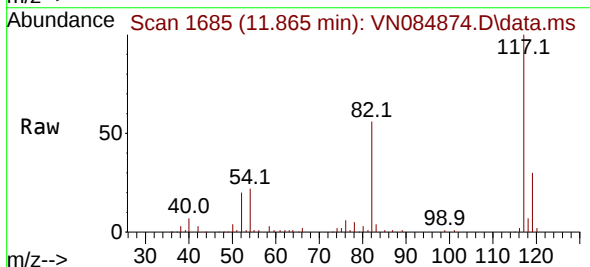
Instrument :
MSVOA_N
ClientSampleId :

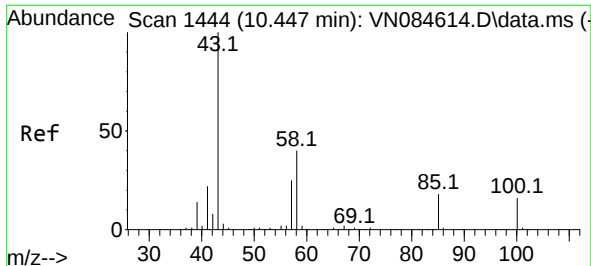
Tgt Ion: 63 Resp: 94645
Ion Ratio Lower Upper
63 100
65 138.8 25.5 38.3#
106 0.0 22.3 33.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 117 Resp: 107920
Ion Ratio Lower Upper
117 100
82 56.7 45.5 68.3
119 31.1 25.3 37.9

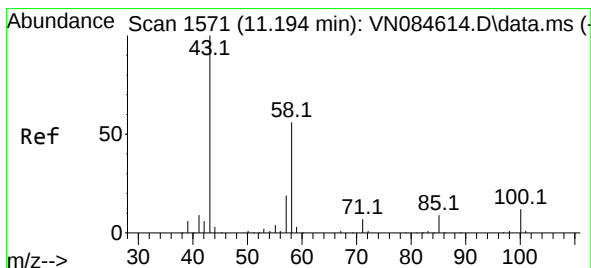
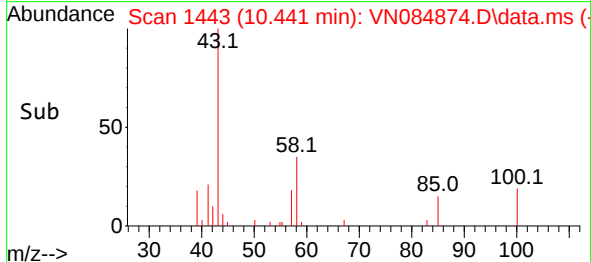
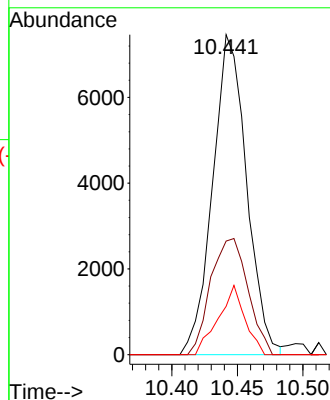
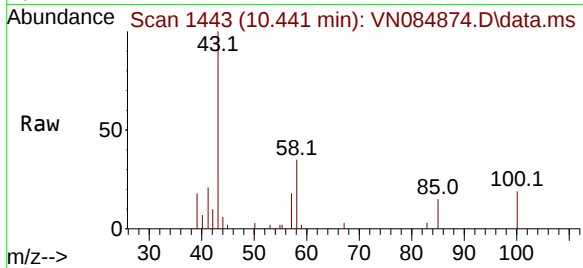




#58
4-Methyl-2-Pentanone
Concen: 7.888 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

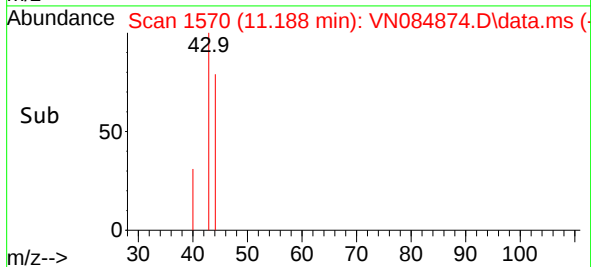
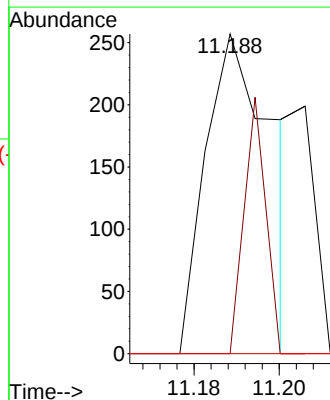
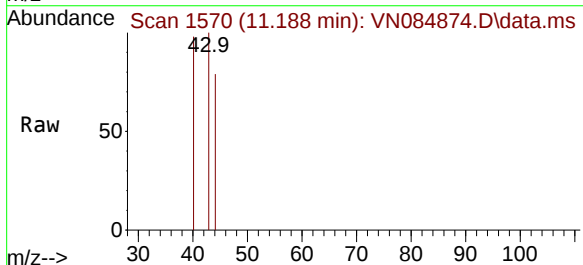
Instrument :
MSVOA_N
ClientSampleId :

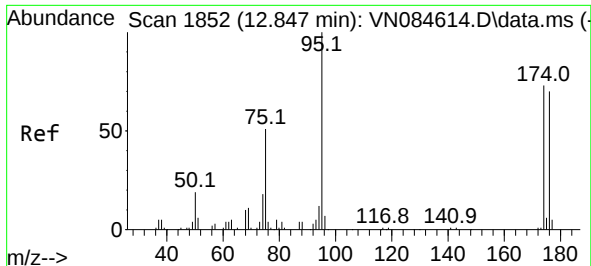
Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.9	31.2	46.8
85	17.0	14.9	22.3



#59
2-Hexanone
Concen: 0.225 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

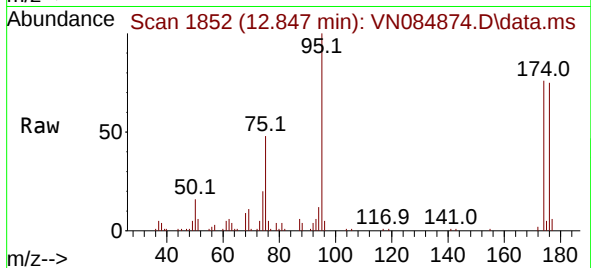
Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	43.8	65.6#
57	0.0	15.0	22.6#



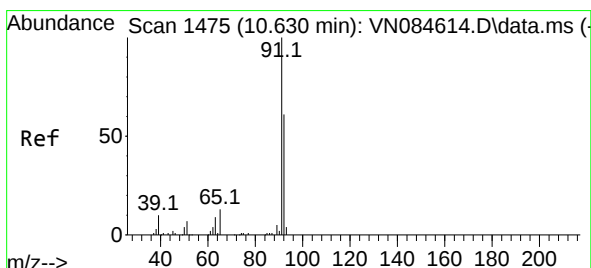
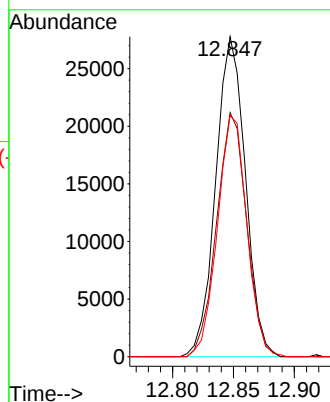
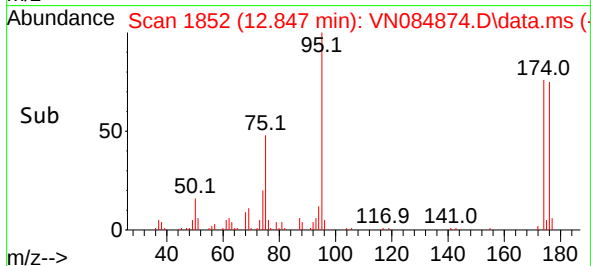


#60
4-Bromofluorobenzene
Concen: 25.383 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :

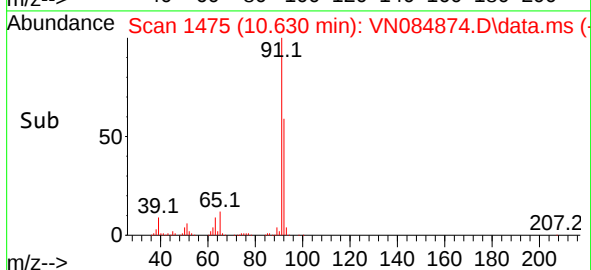
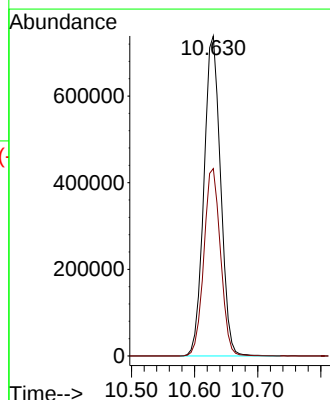
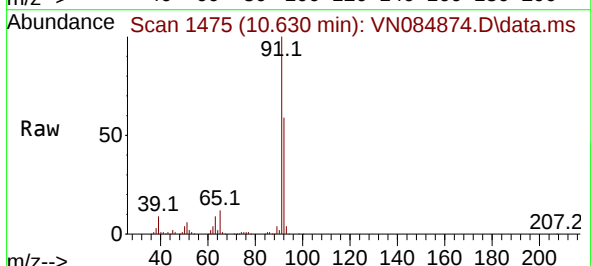


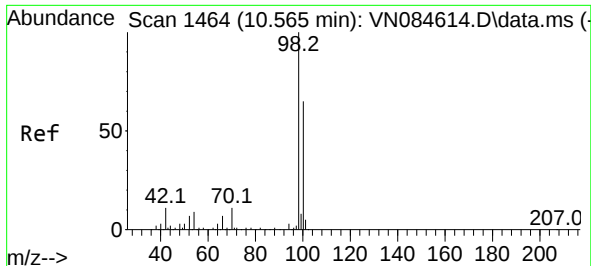
Tgt Ion: 95 Resp: 47167
Ion Ratio Lower Upper
95 100
174 76.8 59.6 89.4
176 74.5 58.6 88.0



#62
Toluene
Concen: 220.149 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 91 Resp: 1353198
Ion Ratio Lower Upper
91 100
92 58.6 47.5 71.3

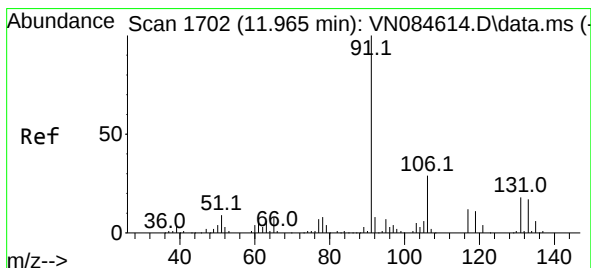
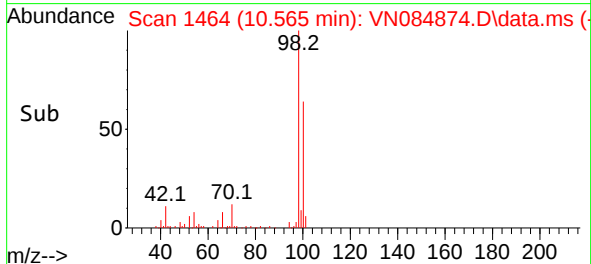
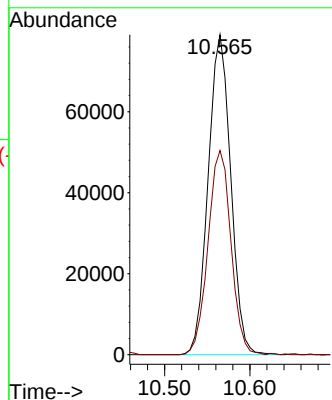
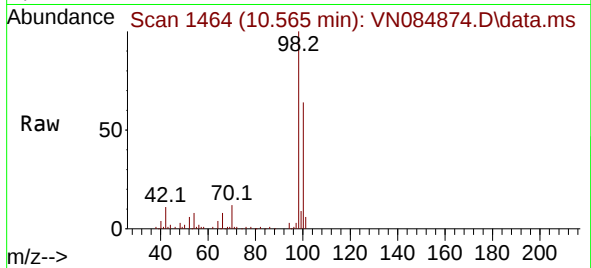




#63
Toluene-d8
Concen: 28.496 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

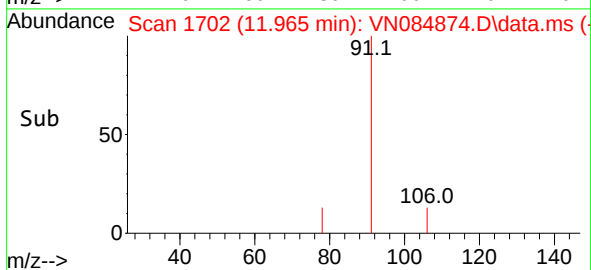
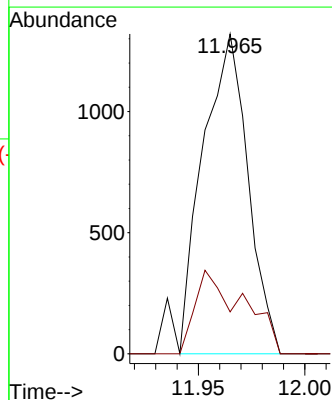
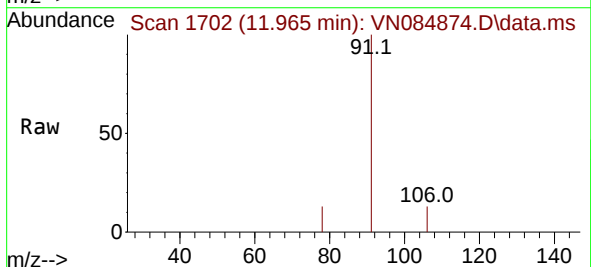
Instrument :
MSVOA_N
ClientSampleId :

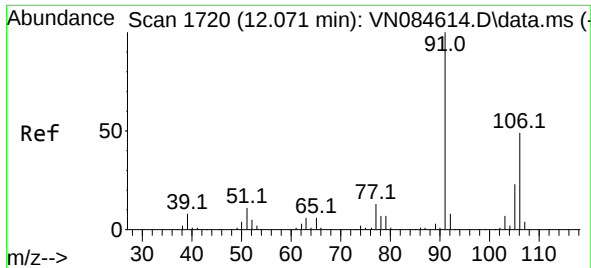
Tgt Ion: 98 Resp: 145584
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2



#66
Ethyl Benzene
Concen: 0.300 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 91 Resp: 1938
Ion Ratio Lower Upper
91 100
106 13.1 22.9 34.3#

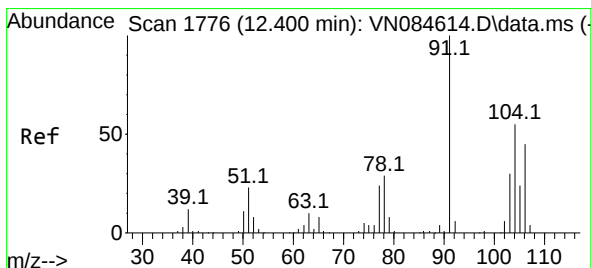
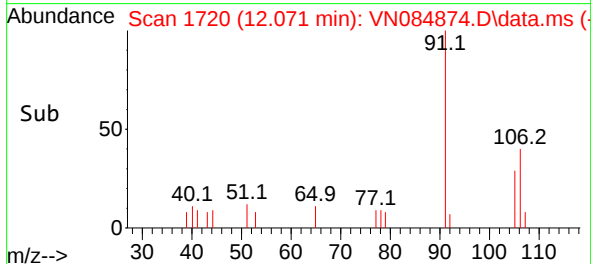
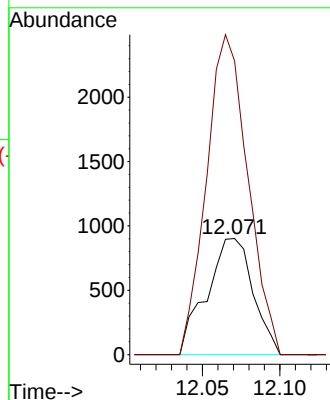
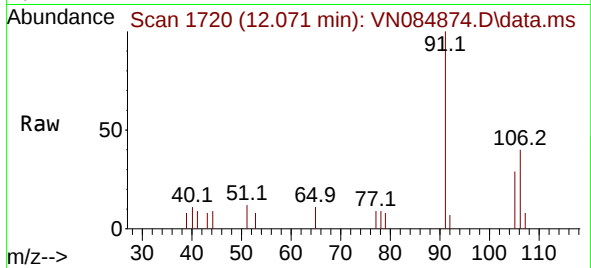




#67
m/p-Xylenes
Concen: 0.758 ug/l
RT: 12.071 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

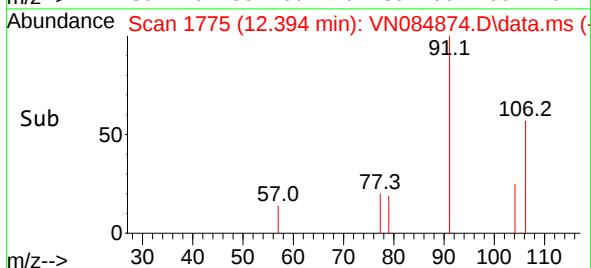
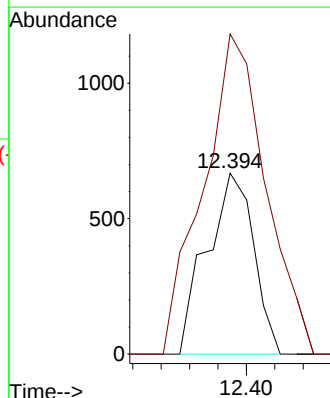
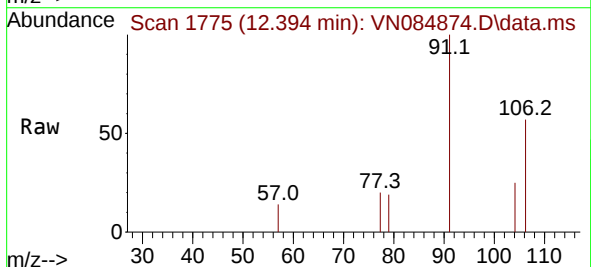
Instrument :
MSVOA_N
ClientSampleId :

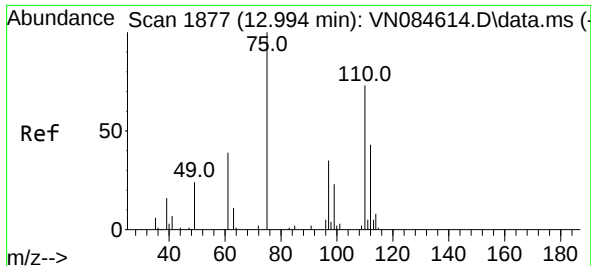
Tgt Ion:106 Resp: 1875
Ion Ratio Lower Upper
106 100
91 246.3 168.1 252.1



#68
o-Xylene
Concen: 0.321 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion:106 Resp: 766
Ion Ratio Lower Upper
106 100
91 236.2 107.7 322.9

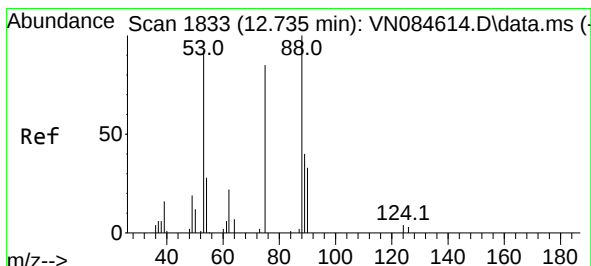
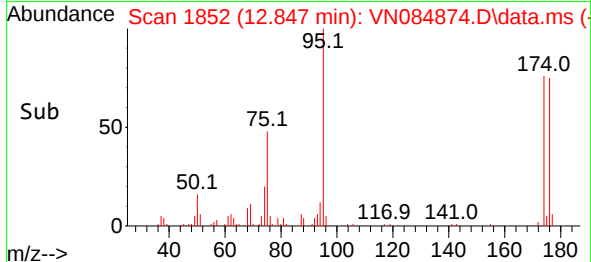
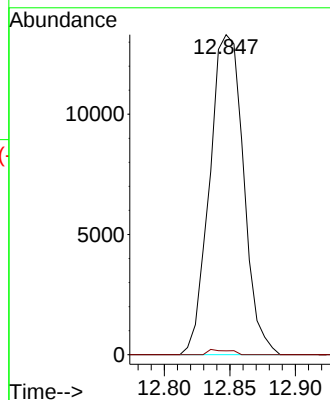
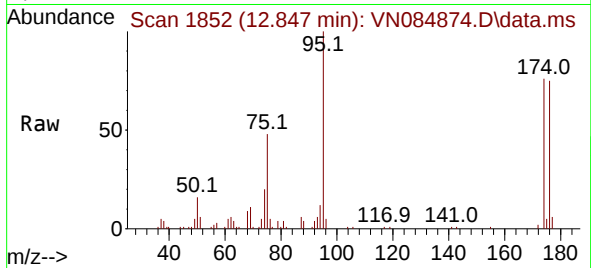




#72
1,2,3-Trichloropropane
Concen: 14.583 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

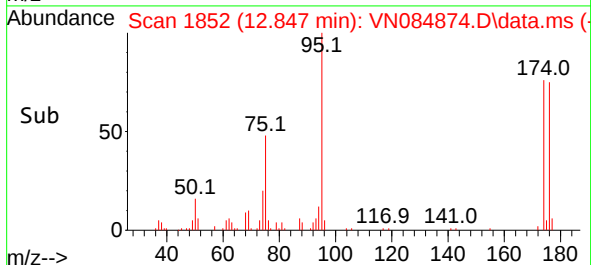
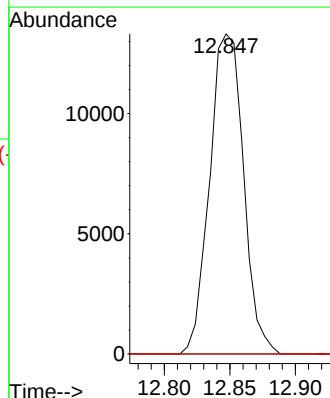
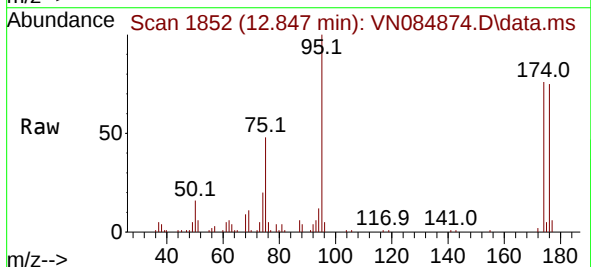
Instrument :
MSVOA_N
ClientSampleId :

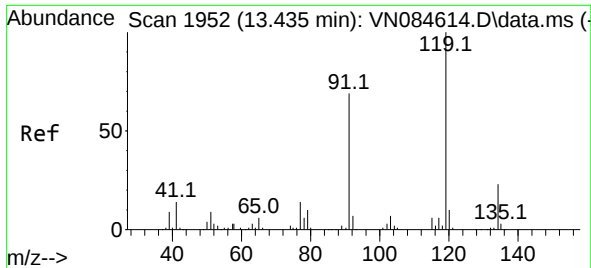
Tgt Ion: 75 Resp: 23920
Ion Ratio Lower Upper
75 100
77 0.3 0.0 358.4



#77
t-1,4-Dichloro-2-butene
Concen: 35.558 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion: 75 Resp: 23920
Ion Ratio Lower Upper
75 100
53 0.0 52.4 157.2#
89 0.0 26.0 78.0#

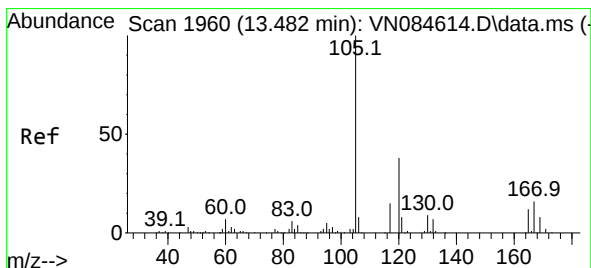
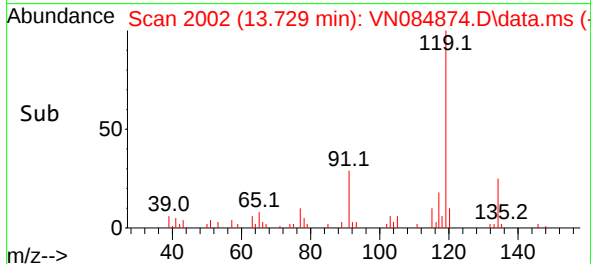
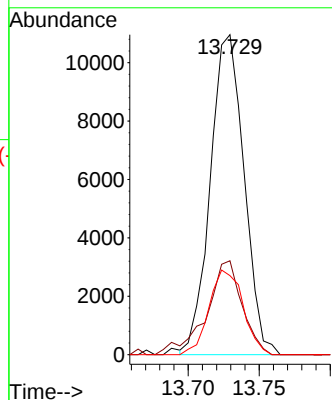
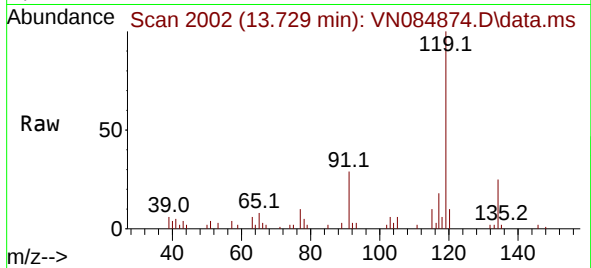




#79
tert-butylbenzene
Concen: 4.326 ug/l
RT: 13.729 min Scan# 20
Delta R.T. 0.294 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

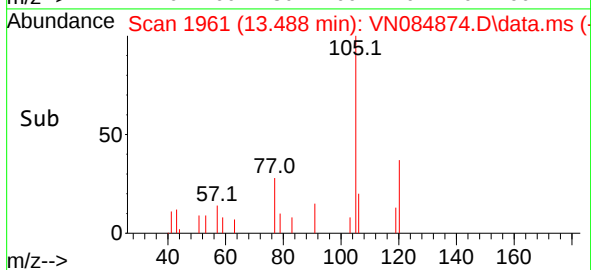
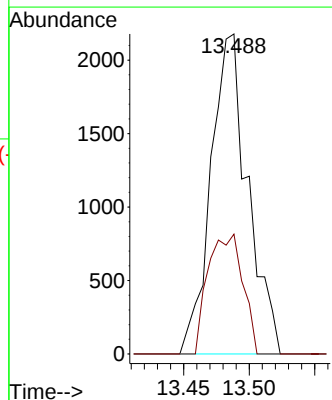
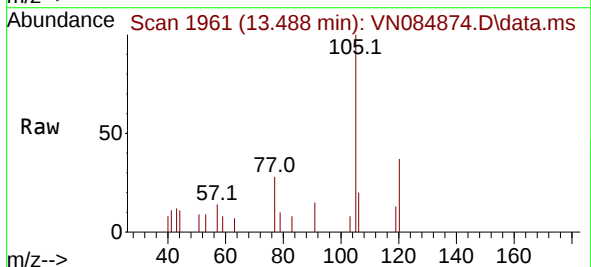
Instrument :
MSVOA_N
ClientSampleId :

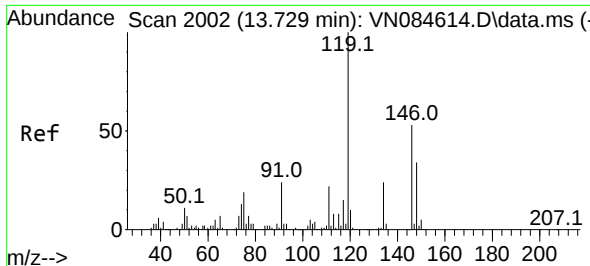
Tgt Ion:119 Resp: 18116
Ion Ratio Lower Upper
119 100
91 31.1 0.0 143.2
134 26.7 0.0 49.4



#80
1,2,4-Trimethylbenzene
Concen: 0.834 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion:105 Resp: 4260
Ion Ratio Lower Upper
105 100
120 35.3 0.0 90.4

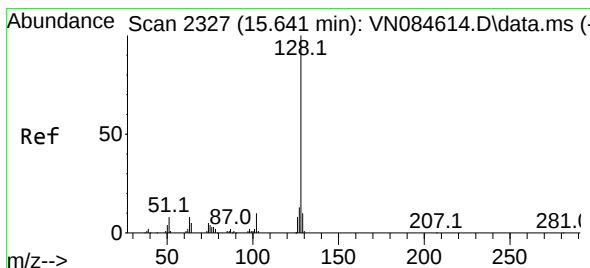
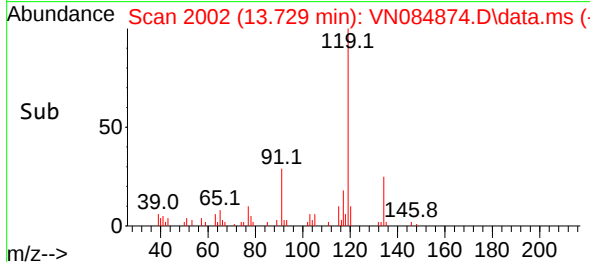
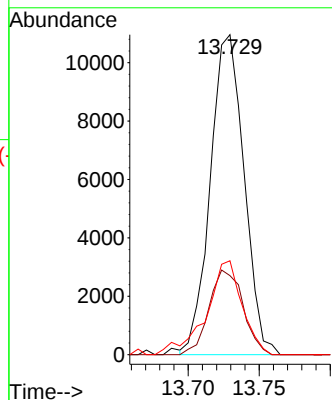
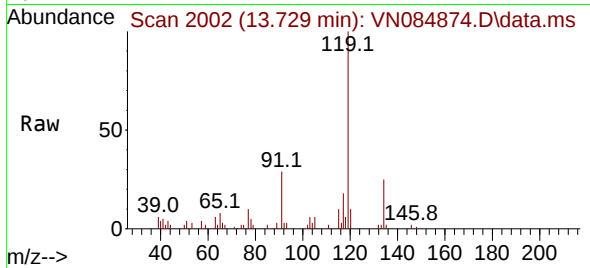




#82
p-Isopropyltoluene
Concen: 3.737 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	0.0	51.4
91	31.1	0.0	50.4



#91
Naphthalene
Concen: 0.795 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN084874.D
Acq: 15 Nov 2024 17:12

Tgt Ion	Ratio	Lower	Upper
128	100		
127	3.9	10.3	15.5#
129	0.0	8.6	12.8#

