

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121924\
 Data File : VN085268.D
 Acq On : 19 Dec 2024 16:23
 Operator : JC\MD
 Sample : P5328-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 19 17:13:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

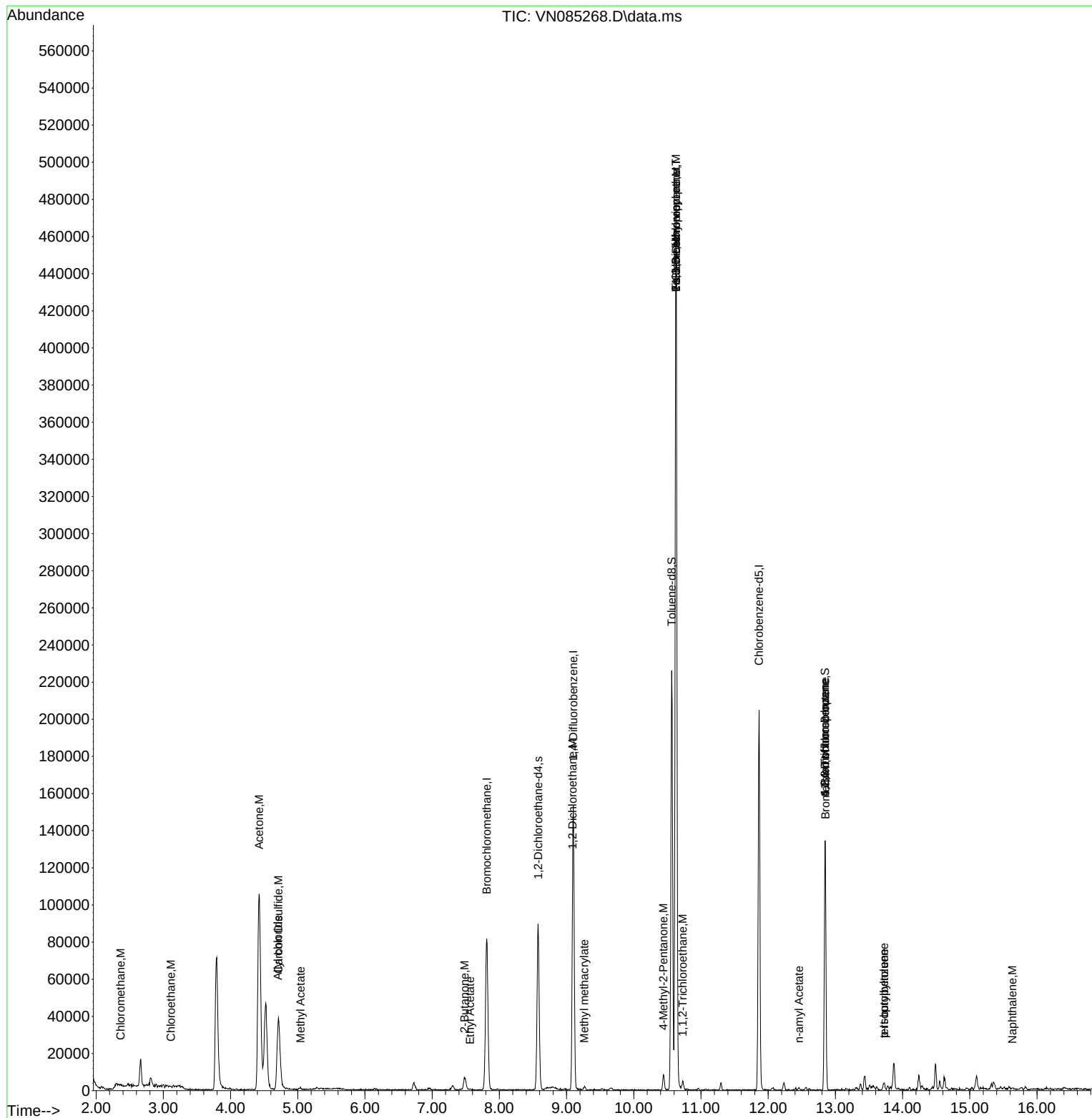
Internal Standards						
1) Bromochloromethane	7.812	128	26278	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	117507	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	106486	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	72524	34.783	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	115.933%#
60) 4-Bromofluorobenzene	12.847	95	43274	24.561	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.867%
63) Toluene-d8	10.565	98	147845	29.598	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.667%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	558	0.300	ug/l #	43
6) Chloroethane	3.112	64	271	0.232	ug/l #	43
12) Methyl Acetate	5.041	43	1313	0.695	ug/l #	51
15) Acetone	4.424	58	56978	268.209	ug/l	83
16) Carbon Disulfide	4.712	76	1631	0.341	ug/l #	75
17) Allyl chloride	4.706	41	7688	3.357	ug/l	85
30) 2-Butanone	7.482	43	11530	13.251	ug/l #	76
36) 1,2-Dichloroethane	9.088	62	2134	1.052	ug/l #	75
43) Ethyl Acetate	7.565	43	442	0.255	ug/l #	61
46) Methyl methacrylate	9.265	41	832	0.604	ug/l #	10
47) n-amyl Acetate	12.459	43	987	0.390	ug/l #	46
48) t-1,3-Dichloropropene	10.629	75	2660	1.225	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	2660	1.125	ug/l #	1
50) 1,1,2-Trichloroethane	10.729	97	3517	2.522	ug/l #	21
55) 2-Chloroethyl vinyl ether	10.629	63	26946	27.348	ug/l #	1
56) Bromoform	12.853	173	831	0.729	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	5948	3.423	ug/l #	81
62) Toluene	10.629	91	352042	56.687	ug/l	97
72) 1,2,3-Trichloropropane	12.847	75	24923	13.501	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	24923	37.156	ug/l #	10
79) tert-butylbenzene	13.723	119	2042	0.473	ug/l	49
82) p-Isopropyltoluene	13.723	119	2042	0.401	ug/l	86
91) Naphthalene	15.635	128	1235	0.305	ug/l #	68

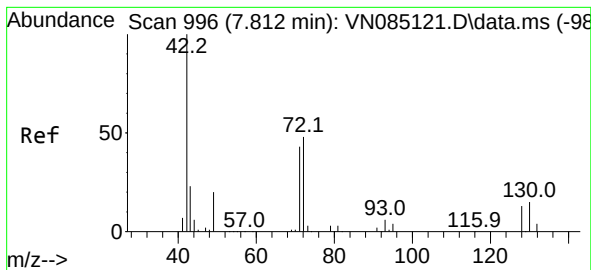
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 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: VN085268.D

Acq: 19 Dec 2024 16:23

Instrument :

MSVOA_N

ClientSampleId :

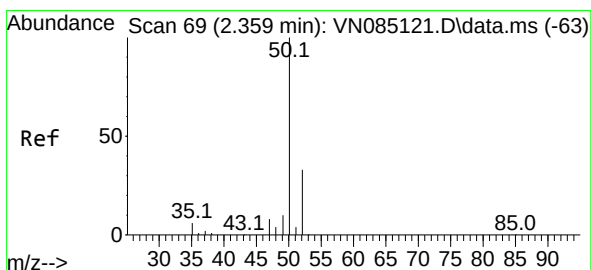
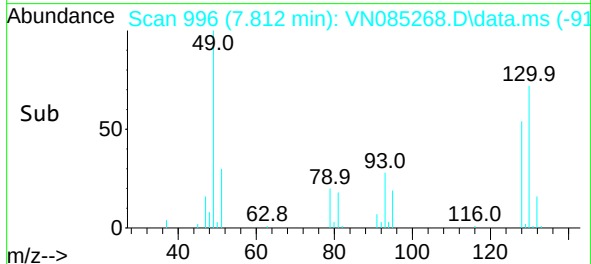
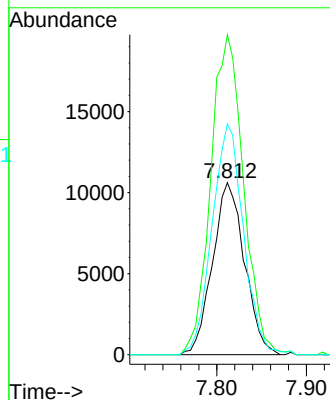
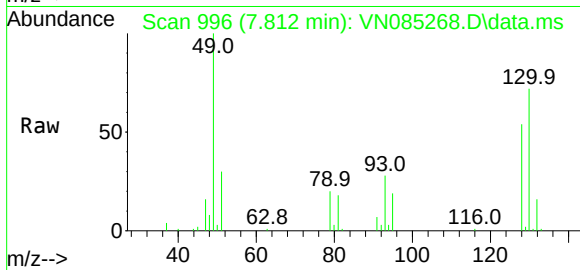
Tgt Ion:128 Resp: 26278

Ion Ratio Lower Upper

128 100

49 190.4 0.0 394.5

130 131.5 0.0 316.5



#3

Chloromethane

Concen: 0.300 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN085268.D

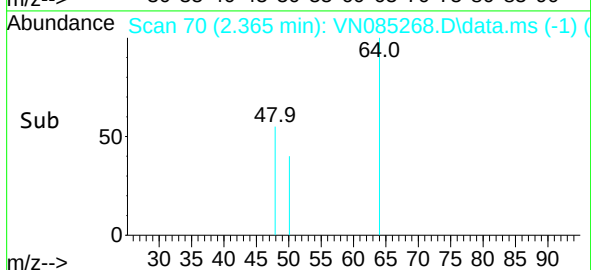
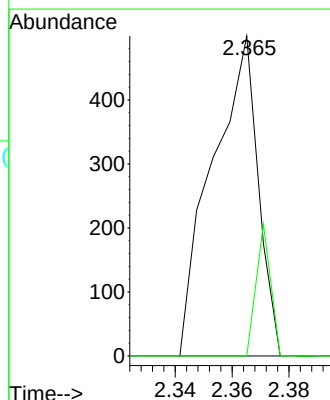
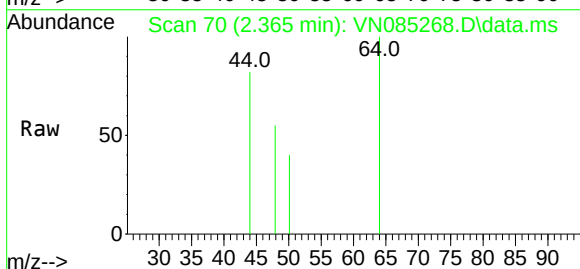
Acq: 19 Dec 2024 16:23

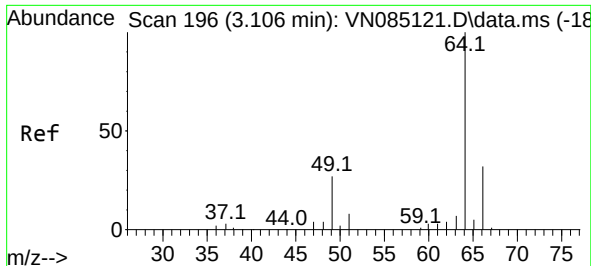
Tgt Ion: 50 Resp: 558

Ion Ratio Lower Upper

50 100

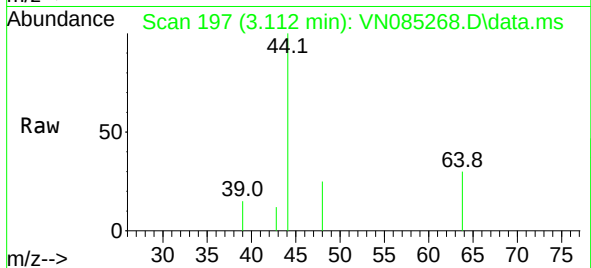
52 0.0 25.0 37.4#



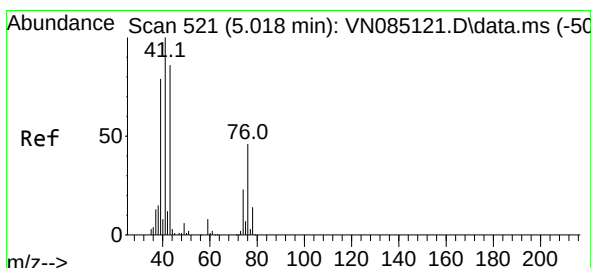
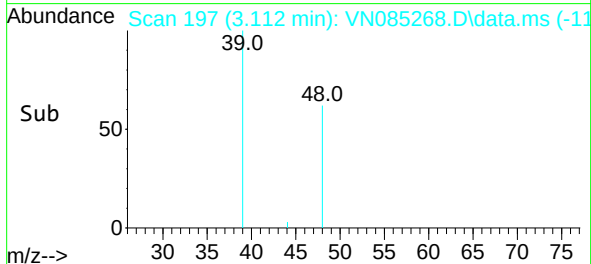
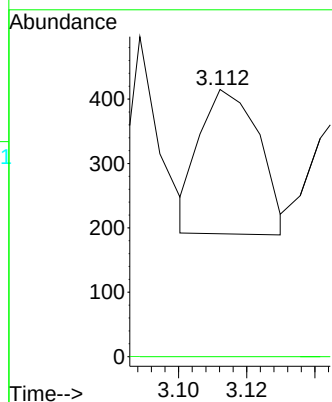


#6
Chloroethane
Concen: 0.232 ug/l
RT: 3.112 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Instrument :
MSVOA_N
ClientSampleId :

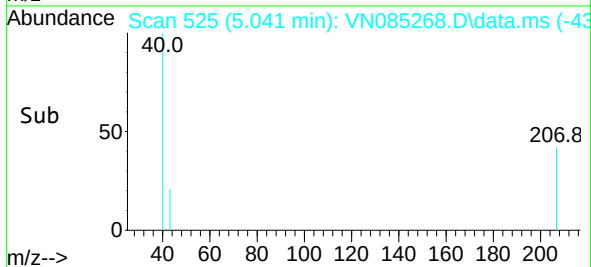
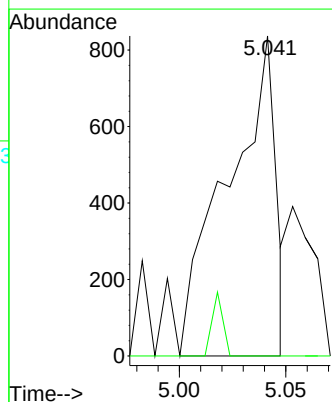
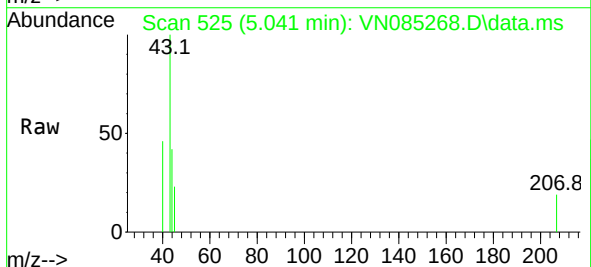


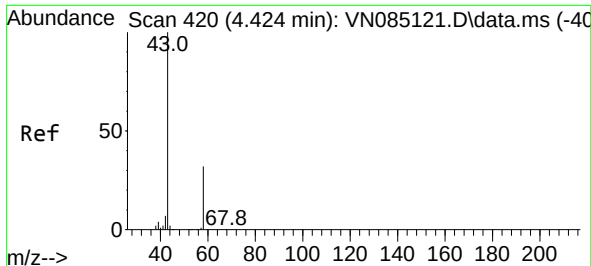
Tgt Ion: 64 Resp: 271
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



#12
Methyl Acetate
Concen: 0.695 ug/l
RT: 5.041 min Scan# 525
Delta R.T. 0.023 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Tgt Ion: 43 Resp: 1313
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#





#15

Acetone

Concen: 268.209 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

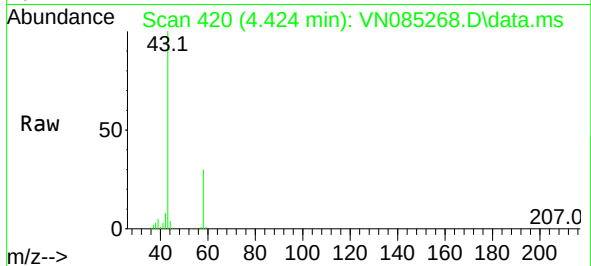
Lab File: VN085268.D

Acq: 19 Dec 2024 16:23

Instrument :

MSVOA_N

ClientSampleId :

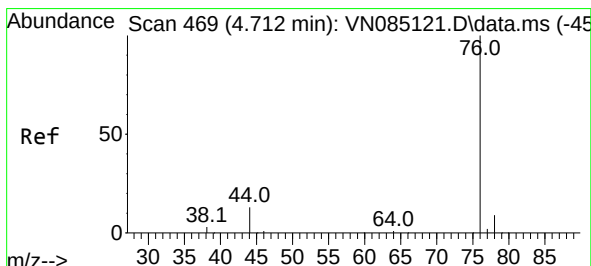
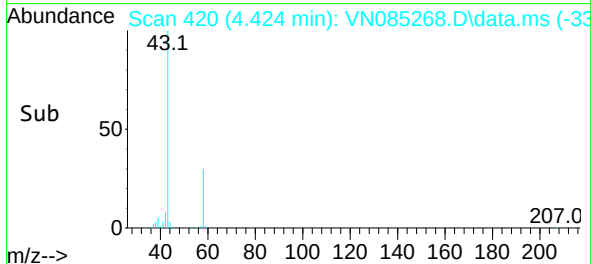
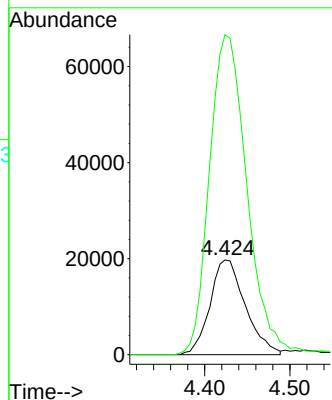


Tgt Ion: 58 Resp: 56978

Ion Ratio Lower Upper

58 100

43 335.8 242.3 363.5



#16

Carbon Disulfide

Concen: 0.341 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN085268.D

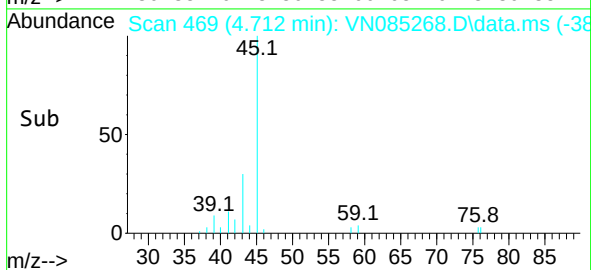
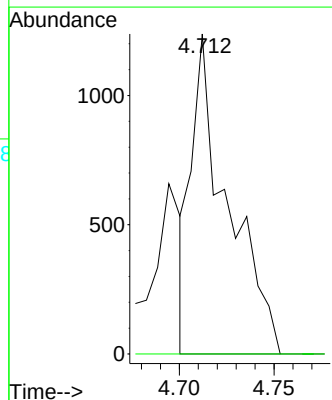
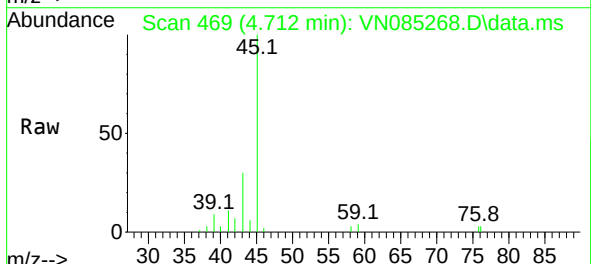
Acq: 19 Dec 2024 16:23

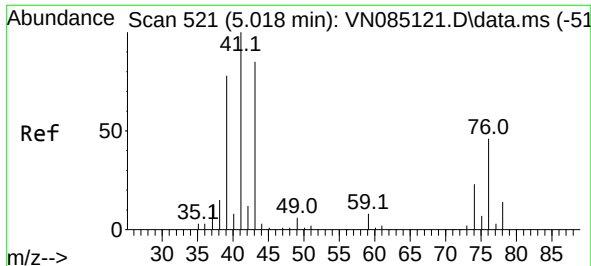
Tgt Ion: 76 Resp: 1631

Ion Ratio Lower Upper

76 100

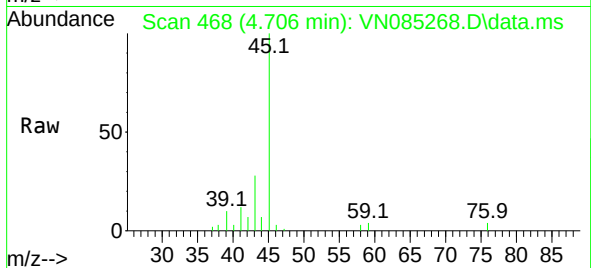
78 0.0 7.1 10.7#



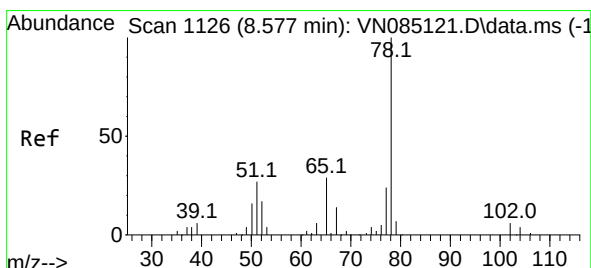
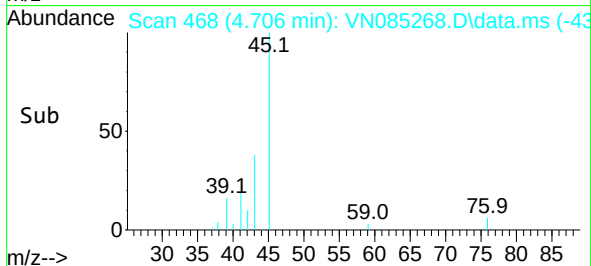
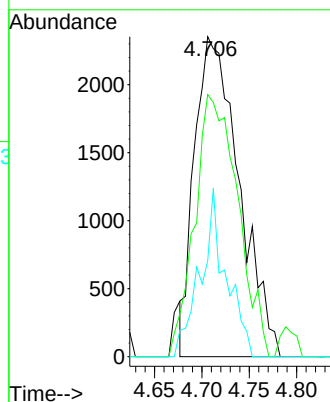


#17
 Allyl chloride
 Concen: 3.357 ug/l
 RT: 4.706 min Scan# 41
 Delta R.T. -0.318 min
 Lab File: VN085268.D
 Acq: 19 Dec 2024 16:23

Instrument :
 MSVOA_N
 ClientSampleId :

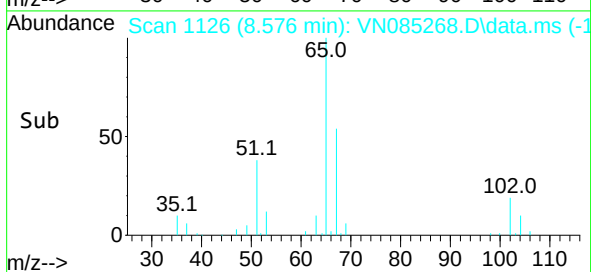
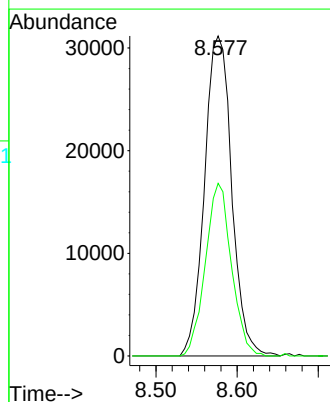
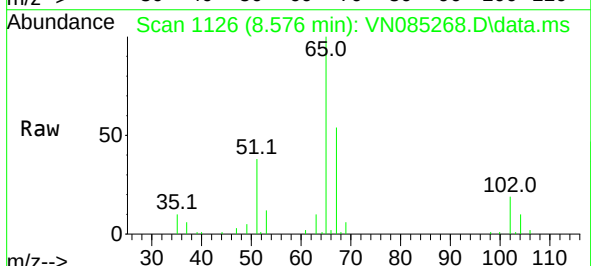


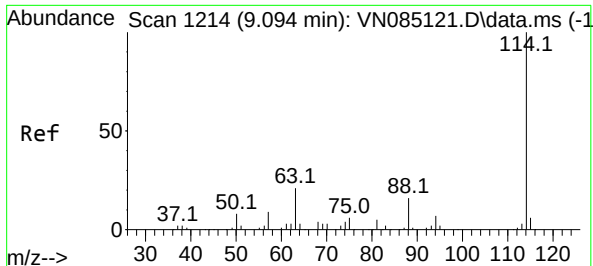
Tgt Ion: 41	Resp: 7688
Ion Ratio	Lower Upper
41 100	
39 75.5	32.0 96.2
76 30.0	20.2 60.5



#27
 1,2-Dichloroethane-d4
 Concen: 34.783 ug/l
 RT: 8.576 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN085268.D
 Acq: 19 Dec 2024 16:23

Tgt Ion: 65	Resp: 72524		
Ion Ratio	Lower	Upper	
65 100			
67 51.7	39.9	59.9	

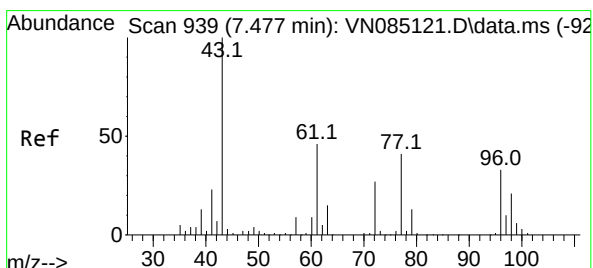
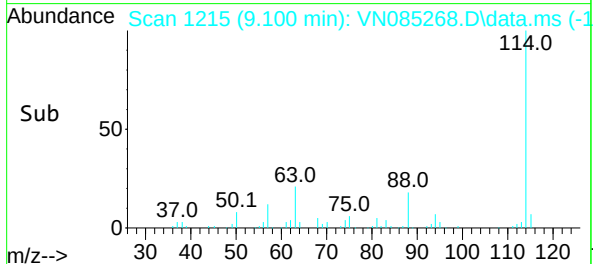
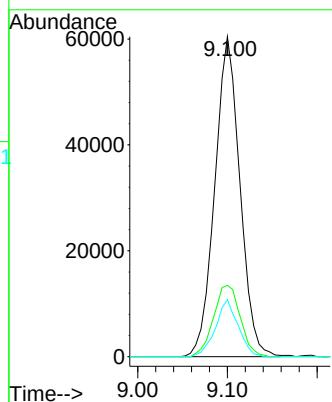
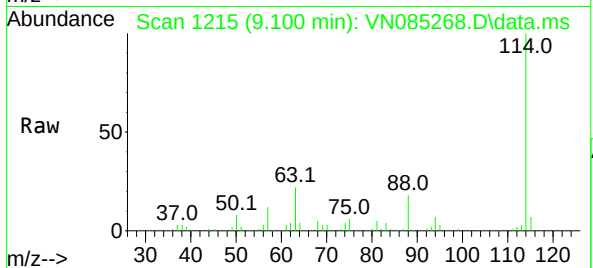




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

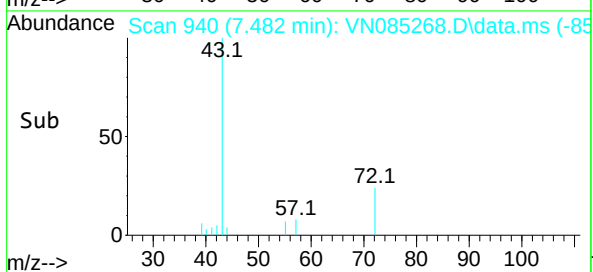
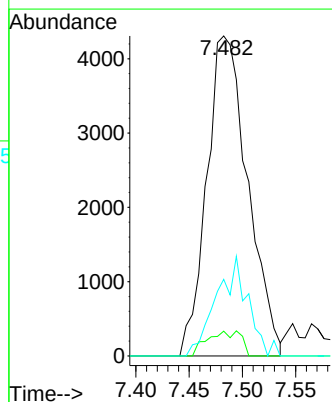
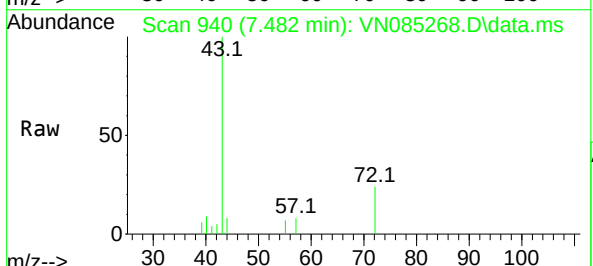
Instrument :
MSVOA_N
ClientSampleId :

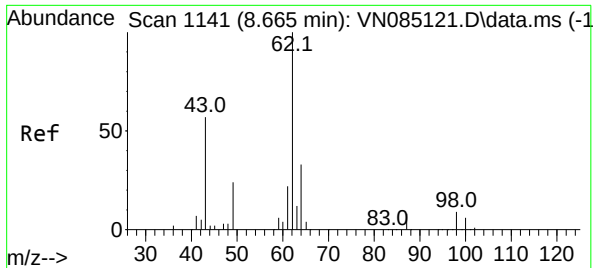
Tgt Ion:114 Resp: 117507
Ion Ratio Lower Upper
114 100
63 23.7 16.2 24.2
88 16.0 12.5 18.7



#30
2-Butanone
Concen: 13.251 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Tgt Ion: 43 Resp: 11530
Ion Ratio Lower Upper
43 100
57 4.5 6.9 10.3#
72 12.5 21.8 32.8#





#36

1,2-Dichloroethane

Concen: 1.052 ug/l

RT: 9.088 min Scan# 1141

Delta R.T. 0.423 min

Lab File: VN085268.D

Acq: 19 Dec 2024 16:23

Instrument :

MSVOA_N

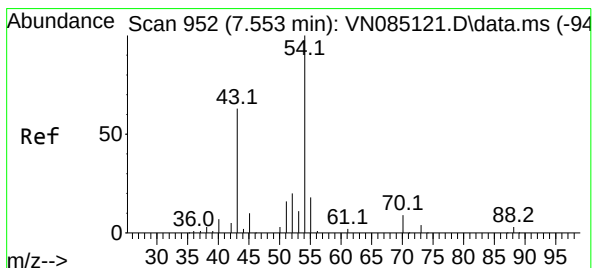
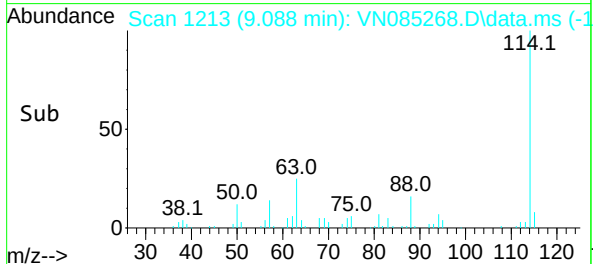
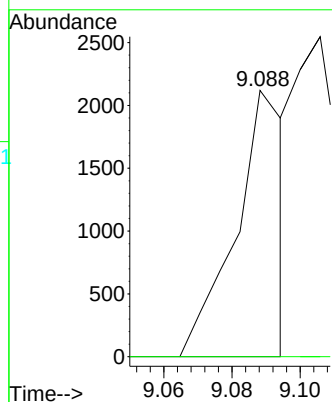
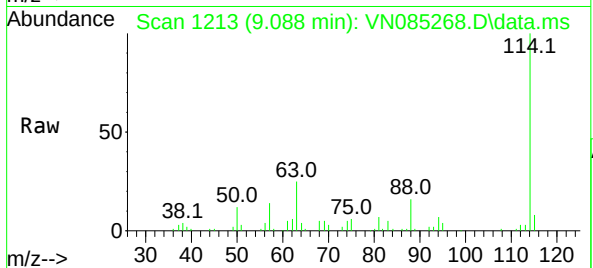
ClientSampleId :

Tgt Ion: 62 Resp: 2134

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#



#43

Ethyl Acetate

Concen: 0.255 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN085268.D

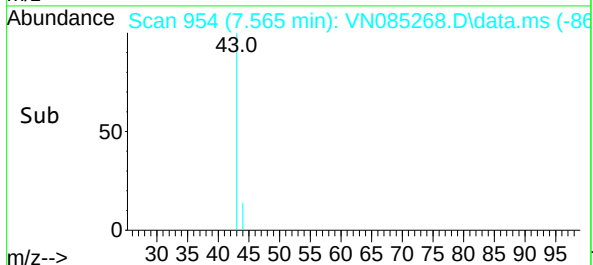
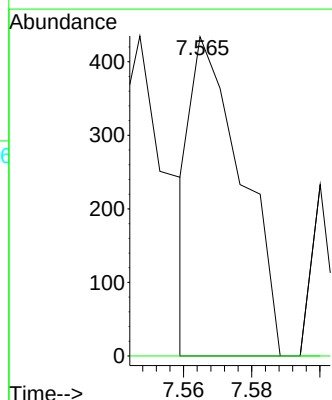
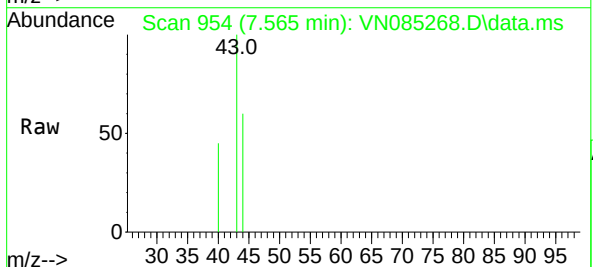
Acq: 19 Dec 2024 16:23

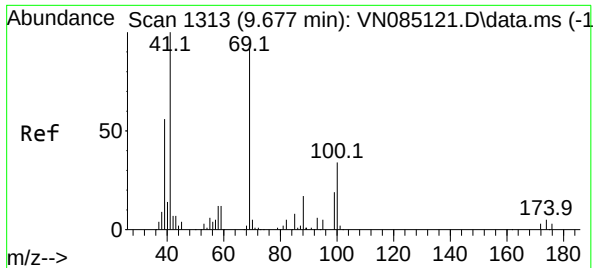
Tgt Ion: 43 Resp: 442

Ion Ratio Lower Upper

43 100

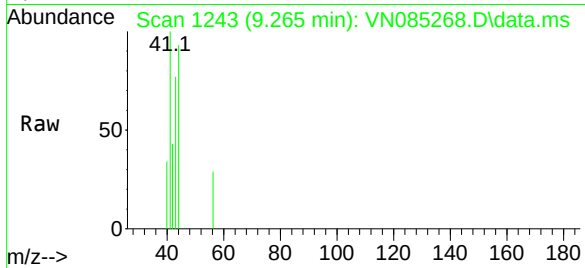
45 0.0 13.3 19.9#



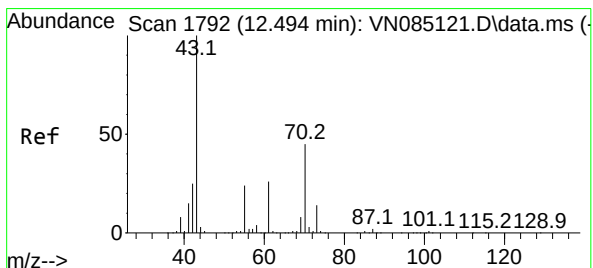
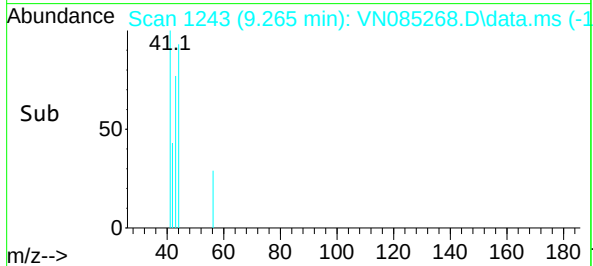
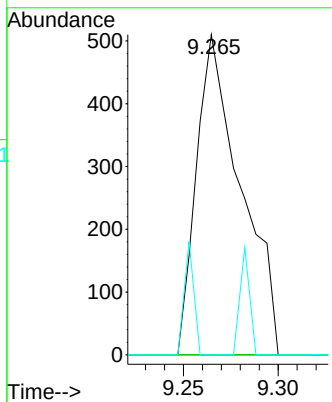


#46
Methyl methacrylate
Concen: 0.604 ug/l
RT: 9.265 min Scan# 11
Delta R.T. -0.418 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Instrument :
MSVOA_N
ClientSampleId :

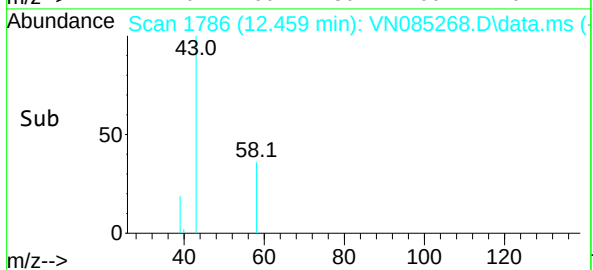
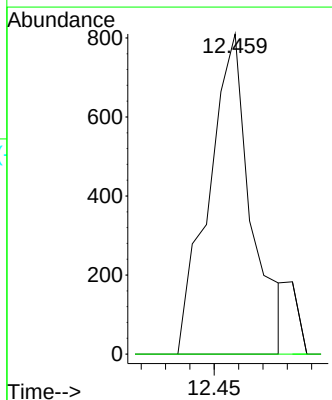
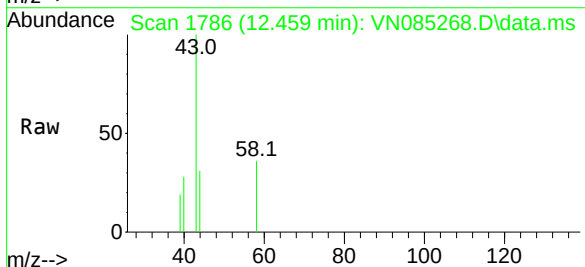


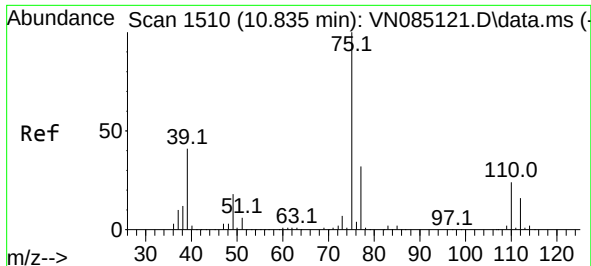
Tgt Ion: 41 Resp: 832
Ion Ratio Lower Upper
41 100
69 0.0 46.7 140.0#
39 0.0 28.5 85.5#



#47
n-amy1 Acetate
Concen: 0.390 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.035 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Tgt Ion: 43 Resp: 987
Ion Ratio Lower Upper
43 100
55 0.0 23.3 34.9#

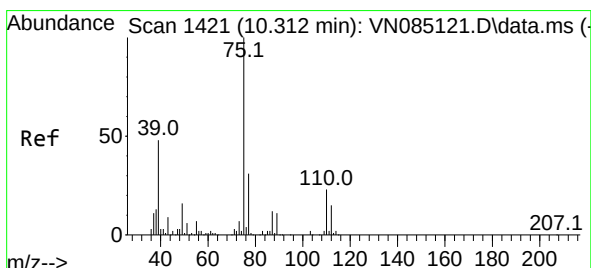
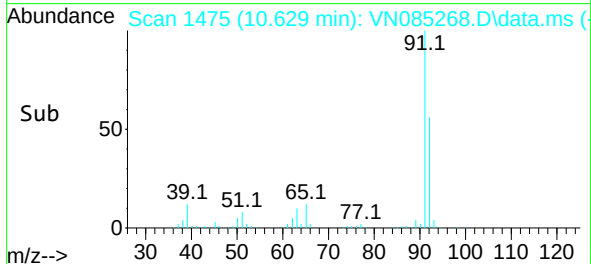
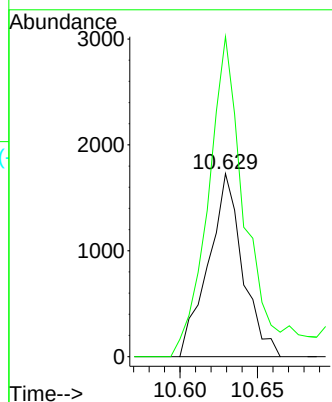
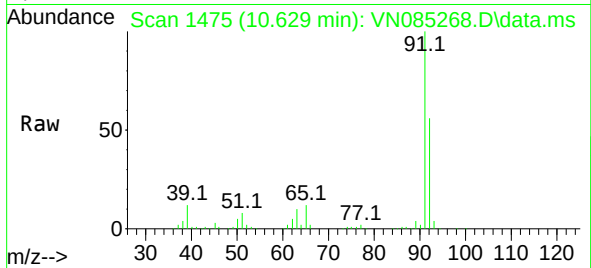




#48
 t-1,3-Dichloropropene
 Concen: 1.225 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. -0.206 min
 Lab File: VN085268.D
 Acq: 19 Dec 2024 16:23

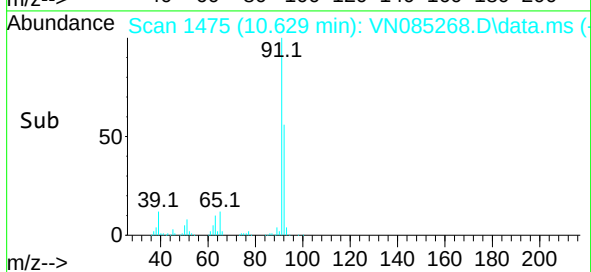
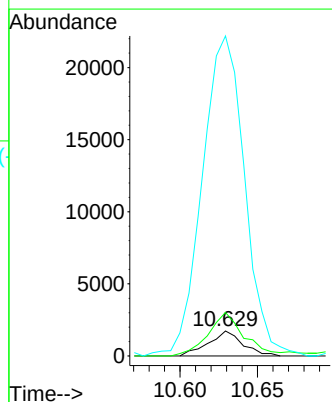
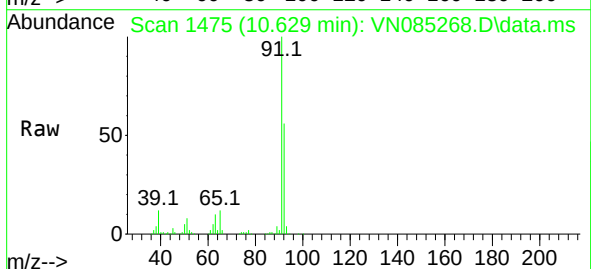
Instrument :
 MSVOA_N
 ClientSampleId :

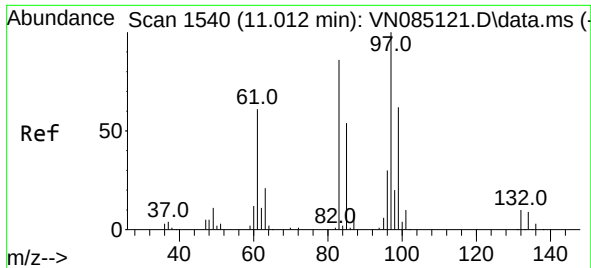
Tgt Ion: 75 Resp: 2660
 Ion Ratio Lower Upper
 75 100
 77 165.3 25.5 38.3#



#49
 cis-1,3-Dichloropropene
 Concen: 1.125 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. 0.318 min
 Lab File: VN085268.D
 Acq: 19 Dec 2024 16:23

Tgt Ion: 75 Resp: 2660
 Ion Ratio Lower Upper
 75 100
 77 165.3 23.8 35.6#
 39 1246.9 37.3 55.9#

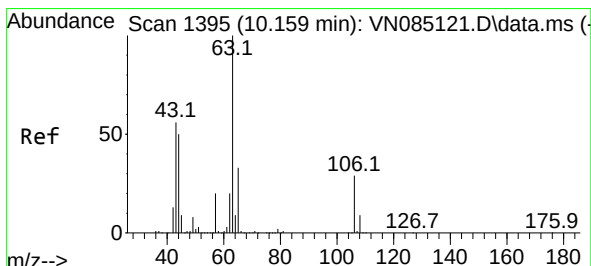
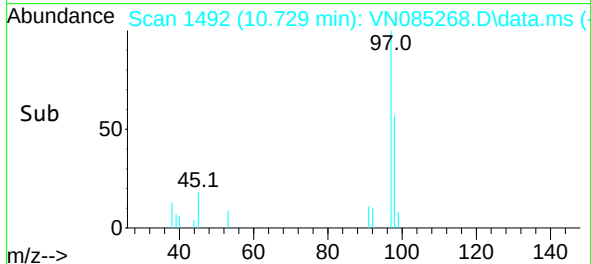
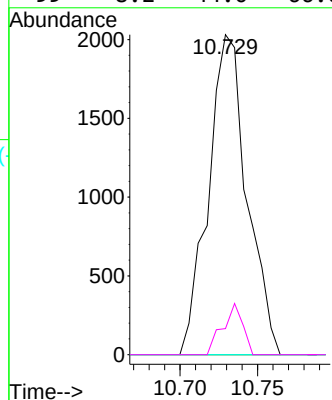
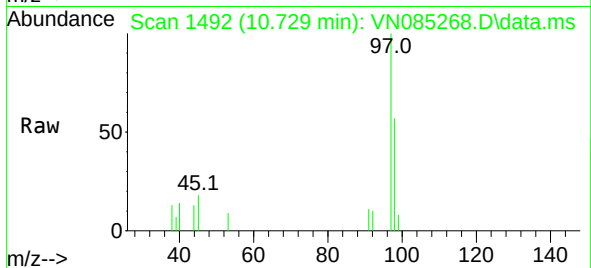




#50
1,1,2-Trichloroethane
Concen: 2.522 ug/l
RT: 10.729 min Scan# 1475
Delta R.T. -0.282 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

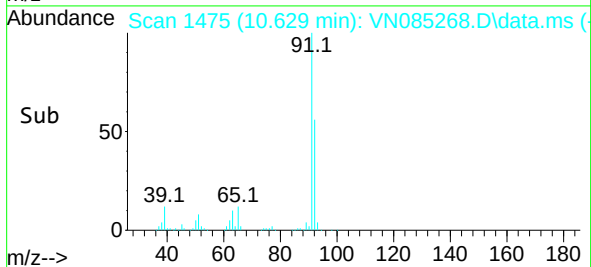
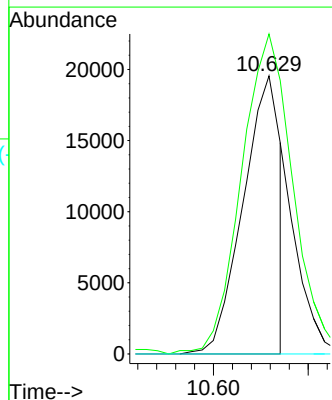
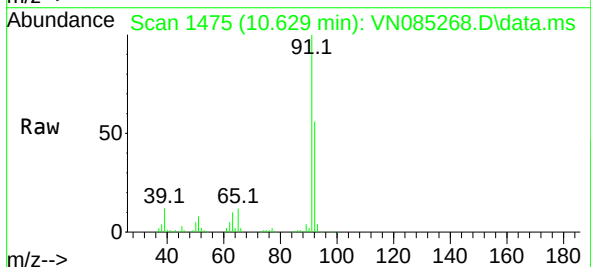
Instrument :
MSVOA_N
ClientSampleId :

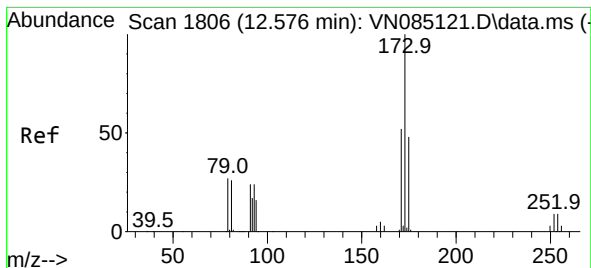
Tgt Ion: 97	Resp:	3517
Ion	Ratio	Lower Upper
97	100	
83	0.0	65.8 98.8#
85	0.0	40.8 61.2#
99	8.2	44.0 66.0#



#55
2-Chloroethyl vinyl ether
Concen: 27.348 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.470 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Tgt Ion: 63	Resp:	26946
Ion	Ratio	Lower Upper
63	100	
65	119.8	25.9 38.9#
106	0.0	23.5 35.3#





#56

Bromoform

Concen: 0.729 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.276 min

Lab File: VN085268.D

Acq: 19 Dec 2024 16:23

Instrument :

MSVOA_N

ClientSampleId :

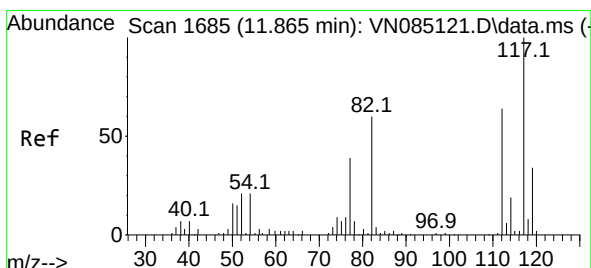
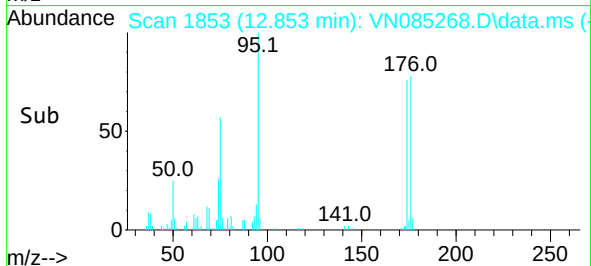
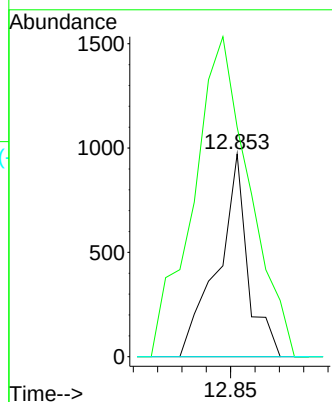
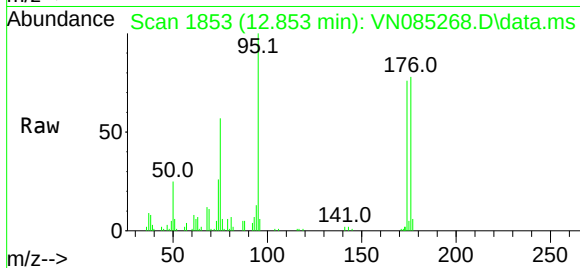
Tgt Ion:173 Resp: 831

Ion Ratio Lower Upper

173 100

175 295.8 40.2 60.2#

254 0.0 6.2 9.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN085268.D

Acq: 19 Dec 2024 16:23

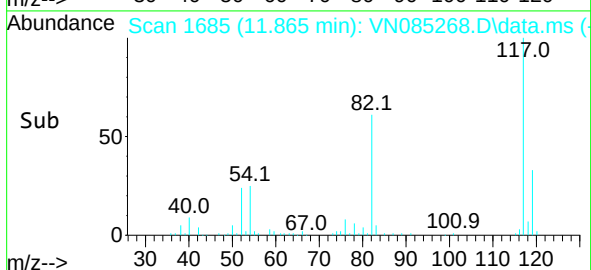
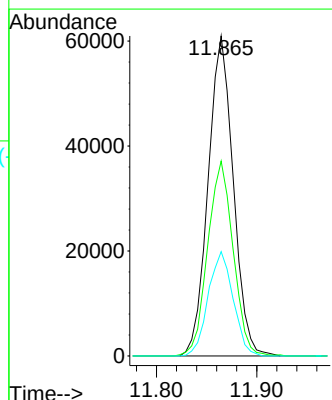
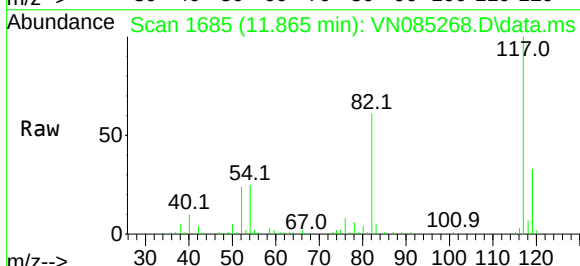
Tgt Ion:117 Resp: 106486

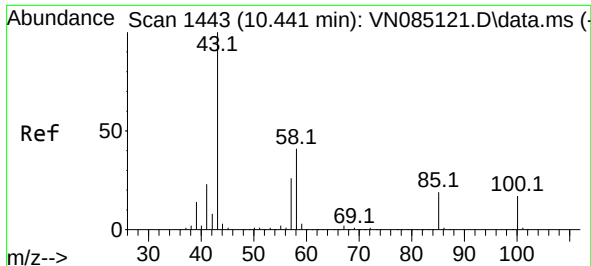
Ion Ratio Lower Upper

117 100

82 61.5 44.2 66.4

119 32.3 25.4 38.2

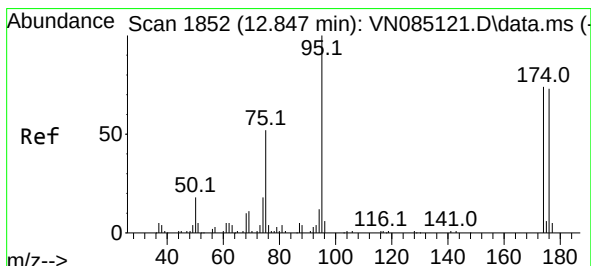
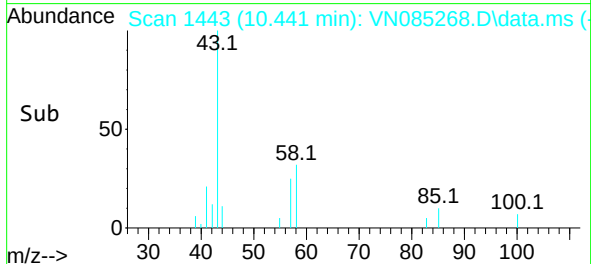
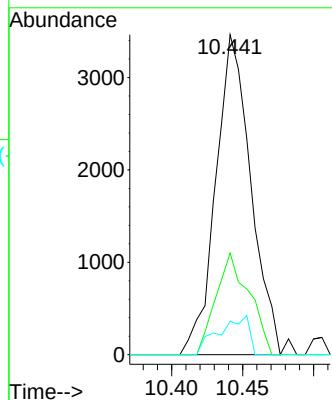
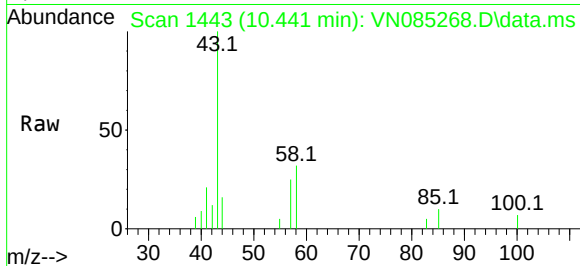




#58
4-Methyl-2-Pentanone
Concen: 3.423 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

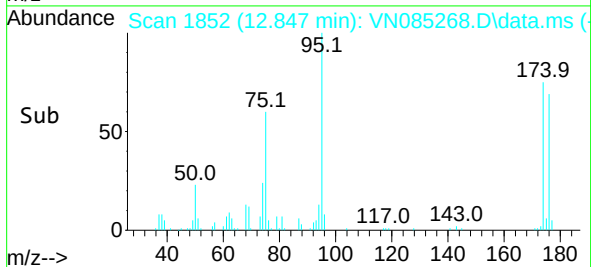
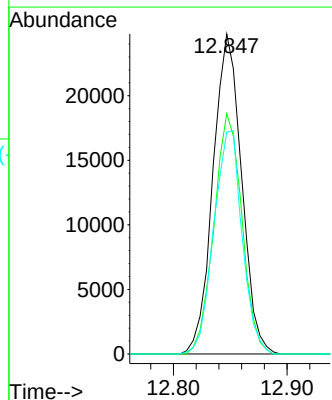
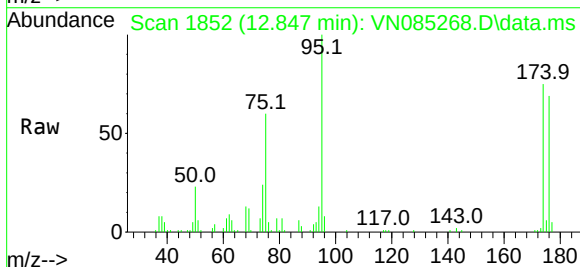
Instrument :
MSVOA_N
ClientSampleId :

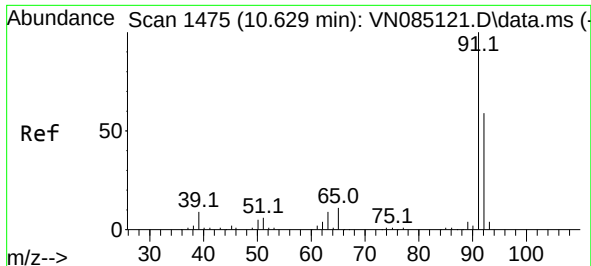
Tgt Ion:	43	Resp:	5948
Ion	Ratio	Lower	Upper
43	100		
58	30.0	31.6	47.4#
85	6.6	15.0	22.6#



#60
4-Bromofluorobenzene
Concen: 24.561 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Tgt Ion:	95	Resp:	43274
Ion	Ratio	Lower	Upper
95	100		
174	73.3	60.3	90.5
176	69.4	57.4	86.0

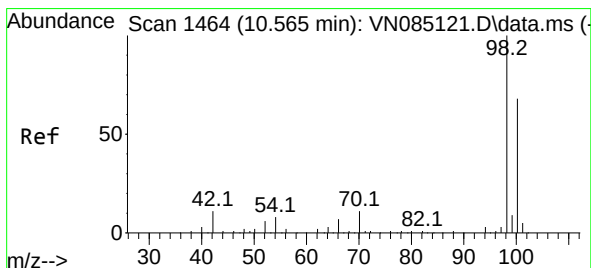
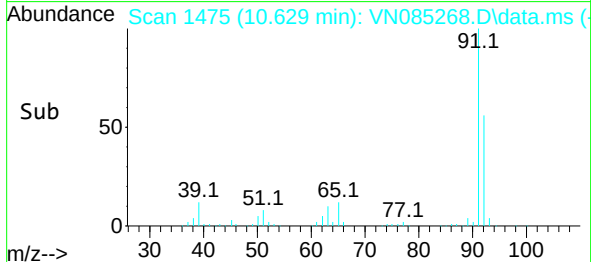
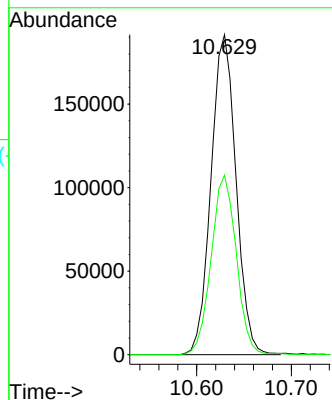
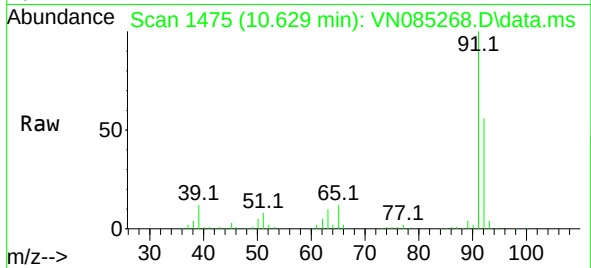




#62
Toluene
Concen: 56.687 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

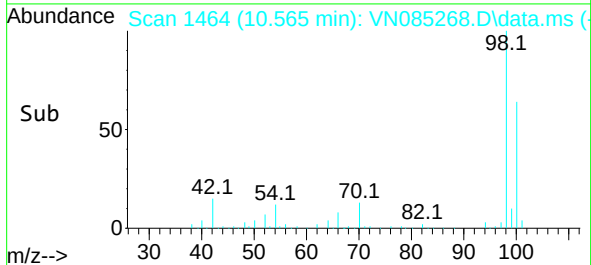
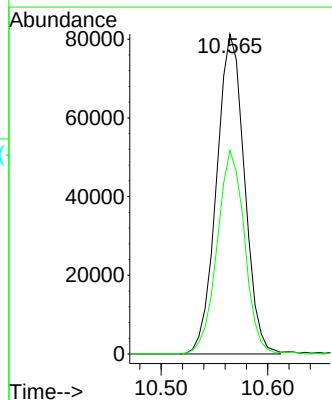
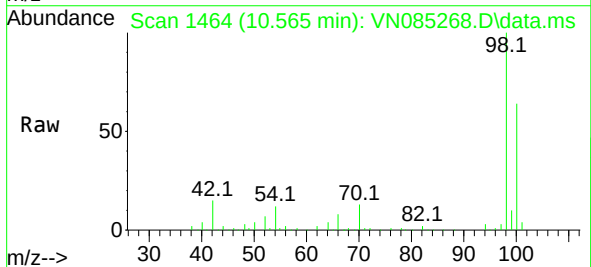
Instrument :
MSVOA_N
ClientSampleId :

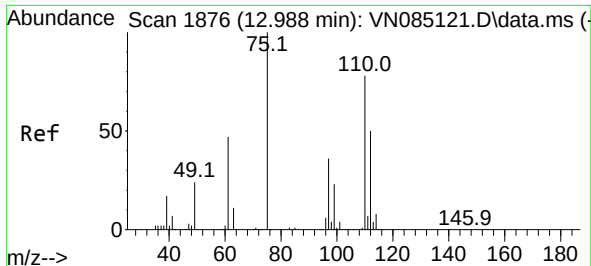
Tgt Ion: 91 Resp: 352042
Ion Ratio Lower Upper
91 100
92 56.2 46.5 69.7



#63
Toluene-d8
Concen: 29.598 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Tgt Ion: 98 Resp: 147845
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0

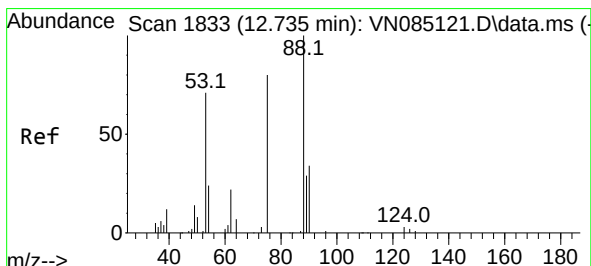
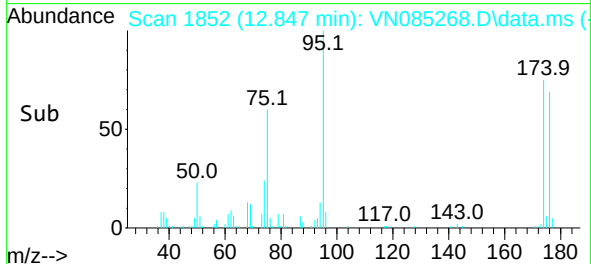
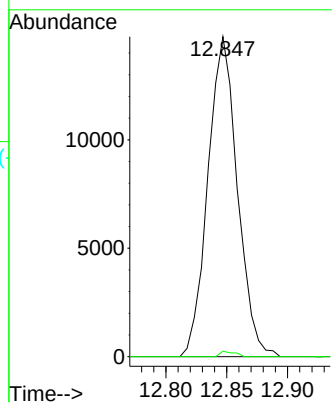
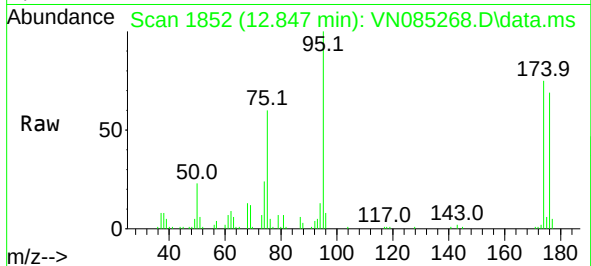




#72
1,2,3-Trichloropropane
Concen: 13.501 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

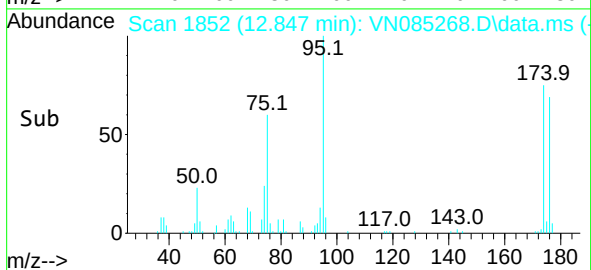
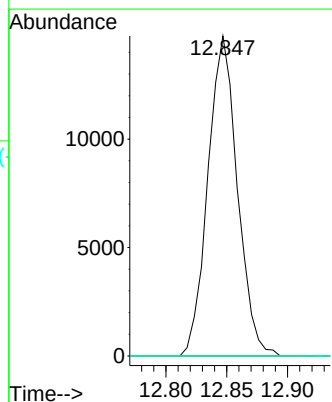
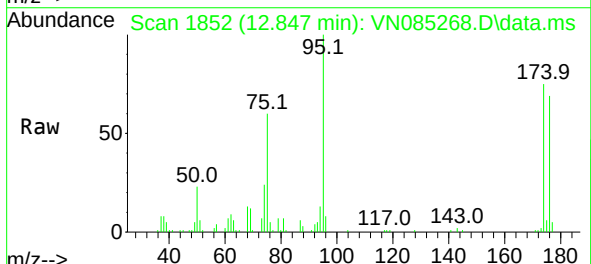
Instrument :
MSVOA_N
ClientSampleId :

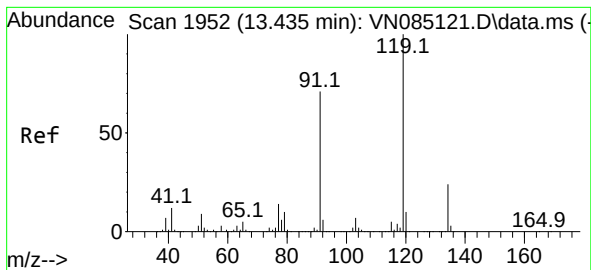
Tgt Ion: 75 Resp: 24923
Ion Ratio Lower Upper
75 100
77 0.8 0.0 339.0



#77
t-1,4-Dichloro-2-butene
Concen: 37.156 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

Tgt Ion: 75 Resp: 24923
Ion Ratio Lower Upper
75 100
53 0.0 49.1 147.3#
89 0.0 22.9 68.5#

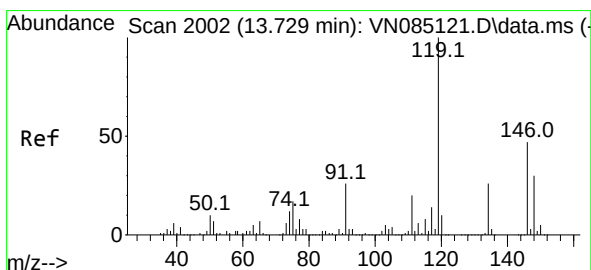
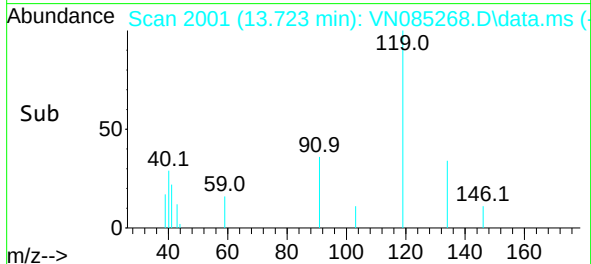
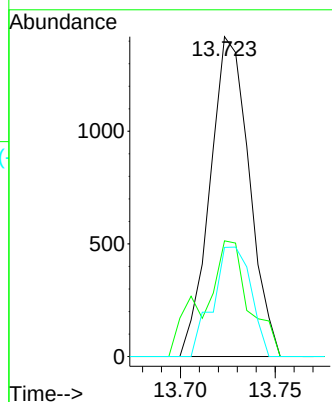
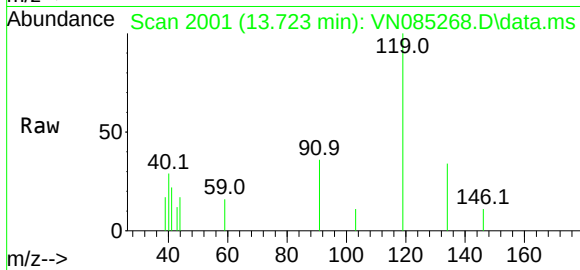




#79
tert-butylbenzene
Concen: 0.473 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.288 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

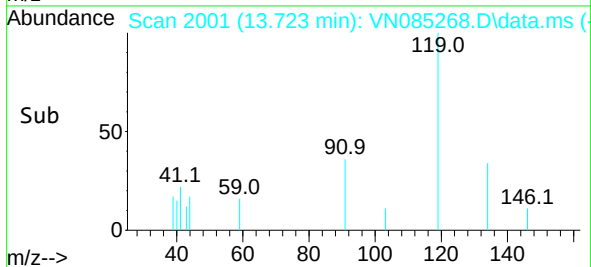
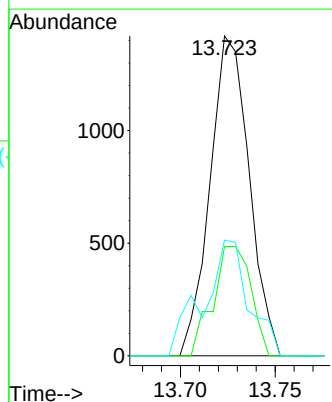
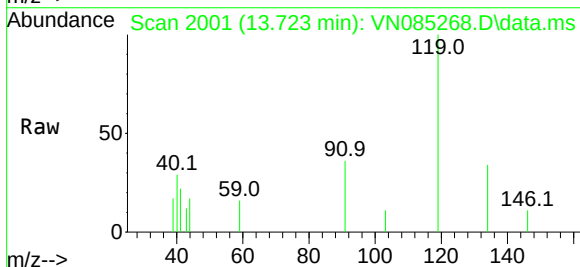
Instrument :
MSVOA_N
ClientSampleId :

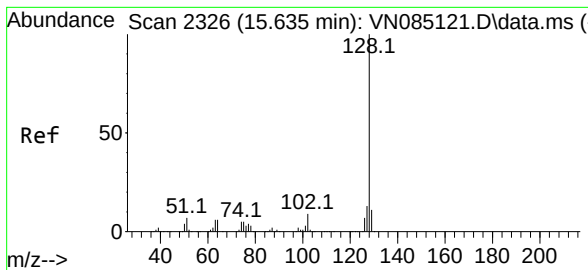
Tgt Ion:119 Resp: 2042
Ion Ratio Lower Upper
119 100
91 18.9 0.0 139.2
134 33.2 0.0 48.0



#82
p-Isopropyltoluene
Concen: 0.401 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN085268.D
Acq: 19 Dec 2024 16:23

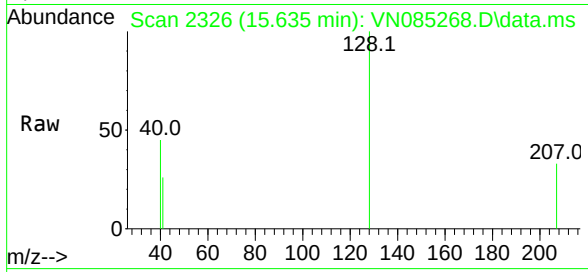
Tgt Ion:119 Resp: 2042
Ion Ratio Lower Upper
119 100
134 33.2 0.0 51.6
91 18.9 0.0 50.4





#91
 Naphthalene
 Concen: 0.305 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN085268.D
 Acq: 19 Dec 2024 16:23

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	1235
Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.0	16.4#
129	0.0	8.7	13.1#

