

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085137.D
 Acq On : 06 Dec 2024 19:15
 Operator : JC\MD
 Sample : P5044-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 23:13:12 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)

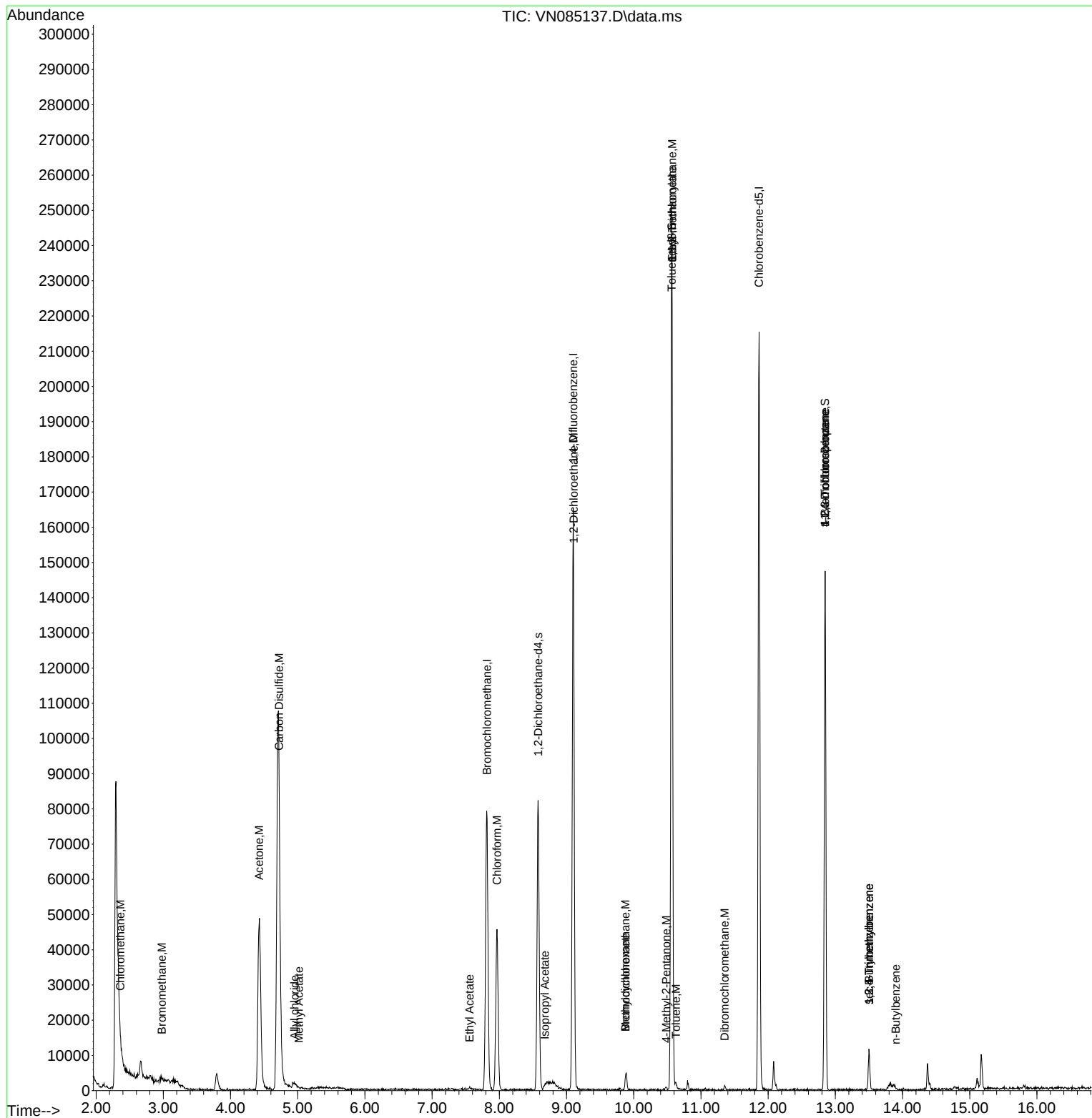
Internal Standards						
1) Bromochloromethane	7.818	128	28468	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	135463	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125958	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68242	30.211	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.700%			
60) 4-Bromofluorobenzene	12.847	95	51175	24.555	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 81.833%			
63) Toluene-d8	10.565	98	167117	28.284	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.267%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.360	50	1087	0.539	ug/l #	43
5) Bromomethane	2.977	94	400	0.306	ug/l	94
12) Methyl Acetate	5.018	43	501	0.245	ug/l #	51
15) Acetone	4.424	58	29638	128.781	ug/l	98
16) Carbon Disulfide	4.724	76	1132	0.218	ug/l #	75
17) Allyl chloride	4.953	41	3166	1.276	ug/l #	38
25) Chloroform	7.965	83	44991	12.781	ug/l	97
36) 1,2-Dichloroethane	9.106	62	5048	2.159	ug/l #	75
38) Methylcyclohexane	9.877	83	1879	0.791	ug/l #	15
41) Bromodichloromethane	9.877	83	1879	0.737	ug/l #	87
43) Ethyl Acetate	7.559	43	995	0.499	ug/l #	61
44) Isopropyl Acetate	8.677	43	716	0.206	ug/l #	48
50) 1,1,2-Trichloroethane	10.571	97	5953	3.703	ug/l #	1
51) Ethyl methacrylate	10.571	69	652	0.267	ug/l #	75
53) Dibromochloromethane	11.353	129	962	0.491	ug/l	98
58) 4-Methyl-2-Pentanone	10.483	43	1018	0.495	ug/l #	43
62) Toluene	10.630	91	1600	0.218	ug/l	88
72) 1,2,3-Trichloropropane	12.847	75	26847	12.295	ug/l	1
76) 1,3,5-Trimethylbenzene	13.500	105	3991	0.641	ug/l #	29
77) t-1,4-Dichloro-2-butene	12.847	75	26847	33.837	ug/l #	10
80) 1,2,4-Trimethylbenzene	13.500	105	3991	0.649	ug/l #	32
81) sec-Butylbenzene	13.500	105	3991	0.550	ug/l #	58
85) n-Butylbenzene	13.900	91	1102	0.218	ug/l #	34

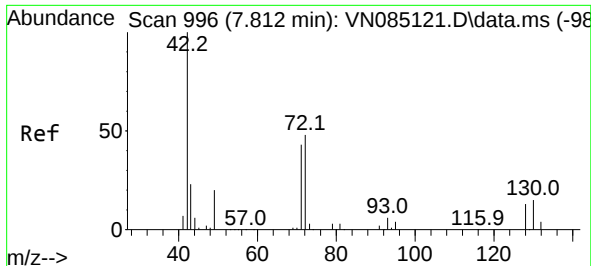
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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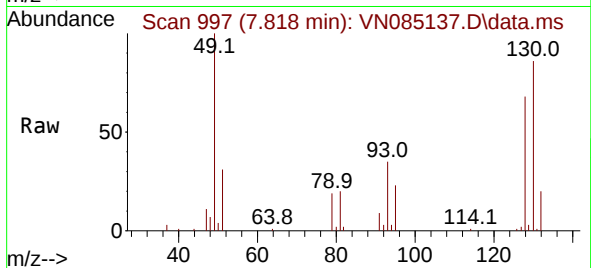
Quant Time: Dec 06 23:13:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
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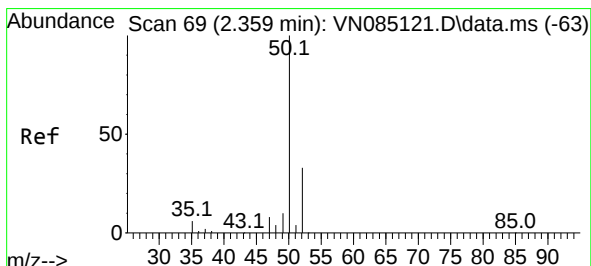
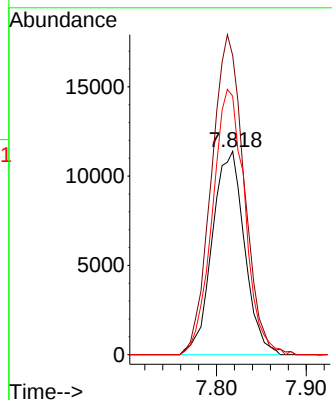
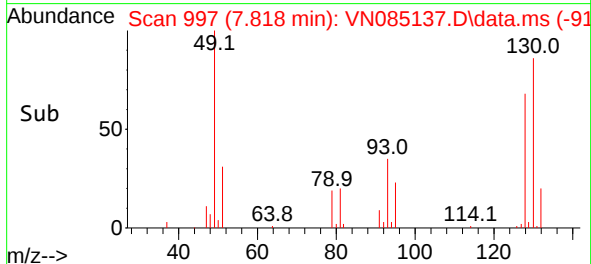


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

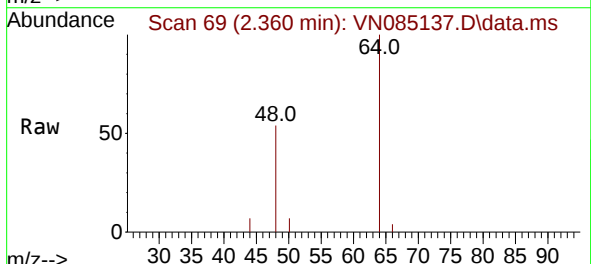
Instrument :
MSVOA_N
ClientSampleId :



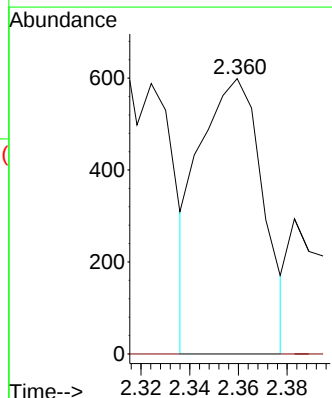
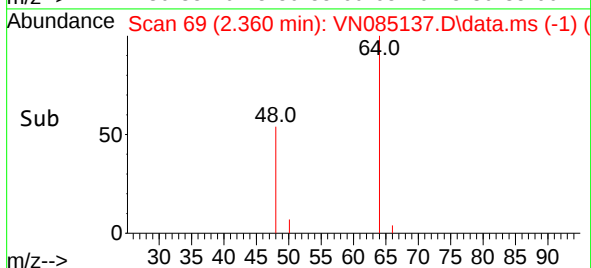
Tgt Ion:128 Resp: 28468
Ion Ratio Lower Upper
128 100
49 159.2 0.0 394.5
130 130.8 0.0 316.5

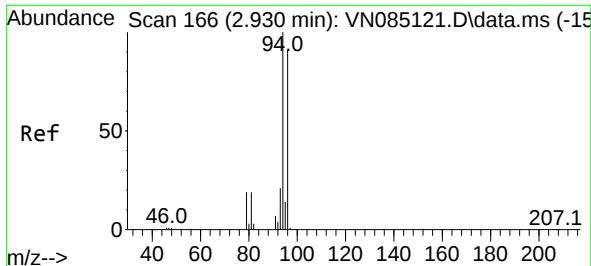


#3
Chloromethane
Concen: 0.539 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15



Tgt Ion: 50 Resp: 1087
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

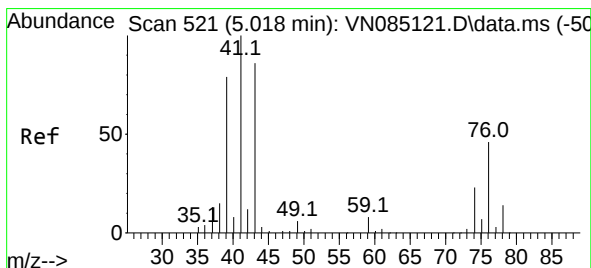
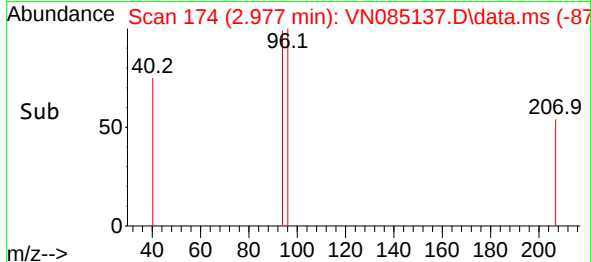
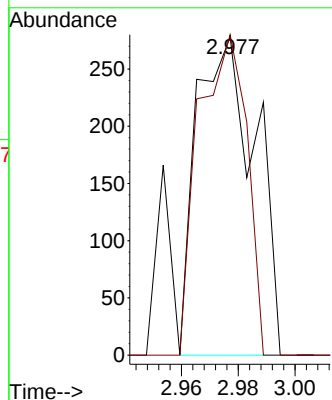
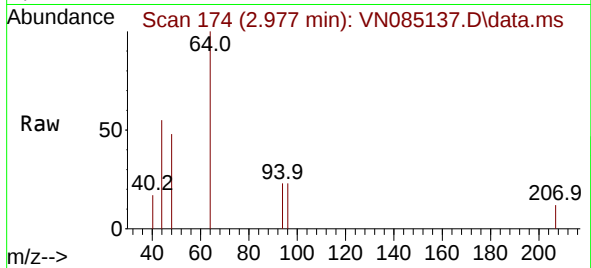




#5
Bromomethane
Concen: 0.306 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

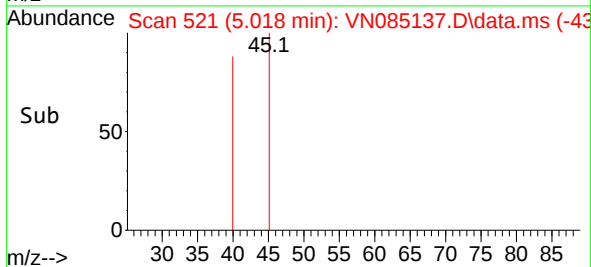
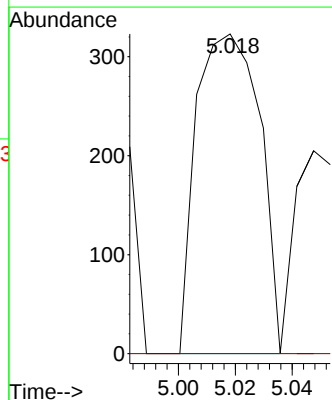
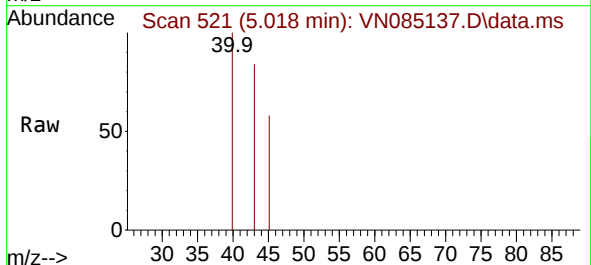
Instrument :
MSVOA_N
ClientSampleId :

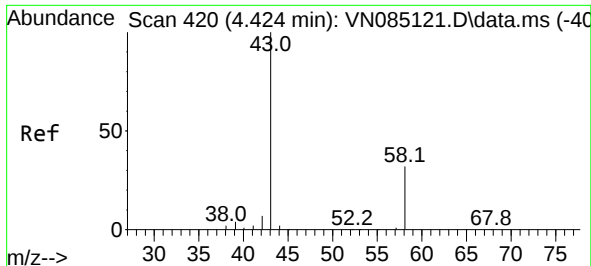
Tgt Ion: 94 Resp: 400
Ion Ratio Lower Upper
94 100
96 100.7 76.2 114.4



#12
Methyl Acetate
Concen: 0.245 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 43 Resp: 501
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#

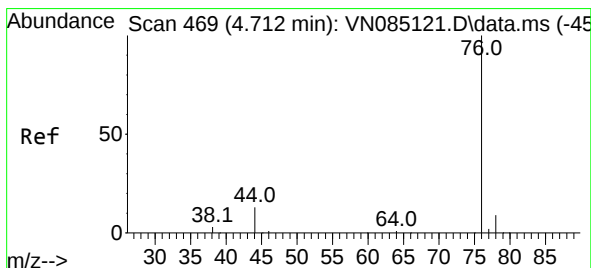
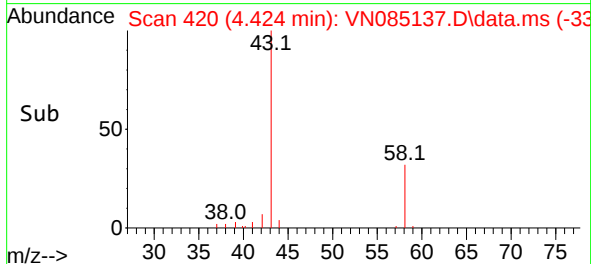
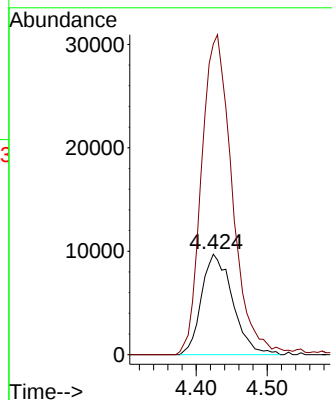
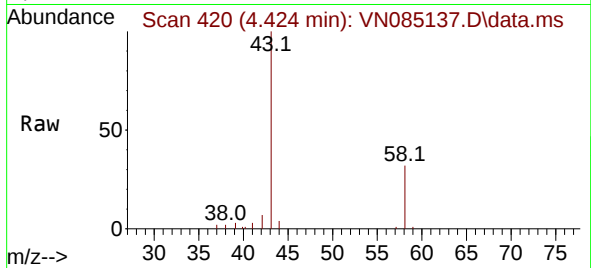




#15
Acetone
Concen: 128.781 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

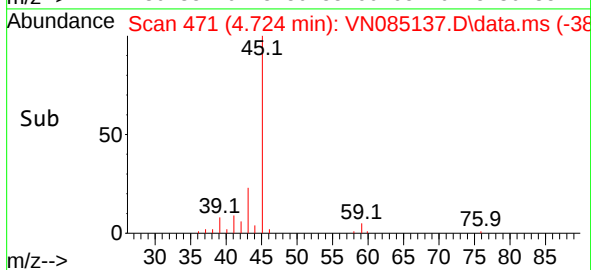
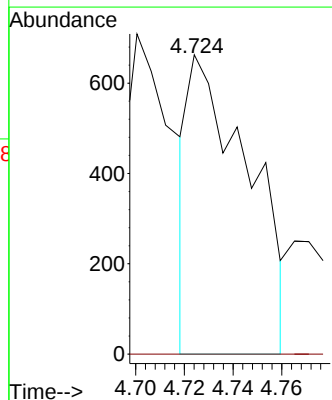
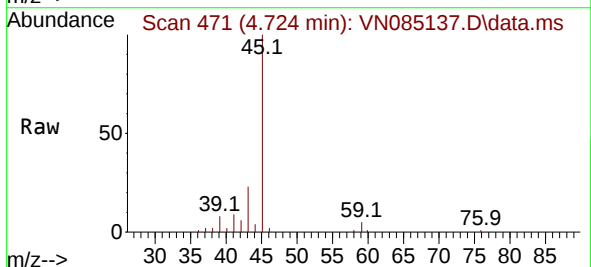
Instrument :
MSVOA_N
ClientSampleId :

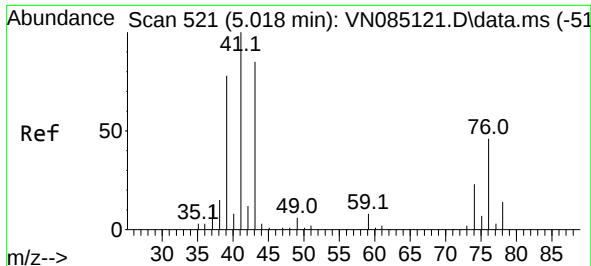
Tgt Ion: 58 Resp: 29638
Ion Ratio Lower Upper
58 100
43 306.4 242.3 363.5



#16
Carbon Disulfide
Concen: 0.218 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.012 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 76 Resp: 1132
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#





#17

Allyl chloride

Concen: 1.276 ug/l

RT: 4.953 min Scan# 51

Delta R.T. -0.070 min

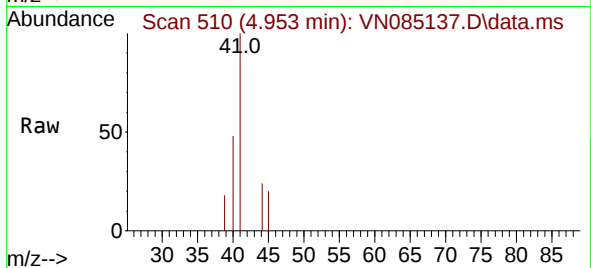
Lab File: VN085137.D

Acq: 06 Dec 2024 19:15

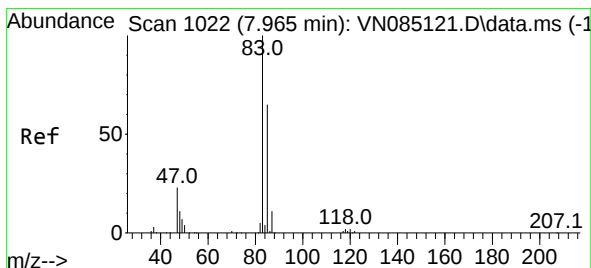
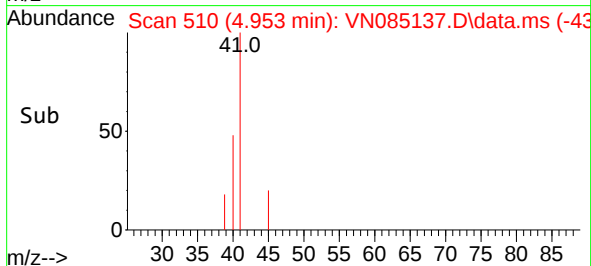
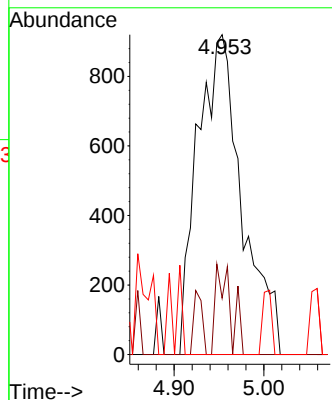
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	41	Resp:	3166
Ion	Ratio	Lower	Upper
41	100		
39	17.6	32.0	96.2#
76	0.0	20.2	60.5#



#25

Chloroform

Concen: 12.781 ug/l

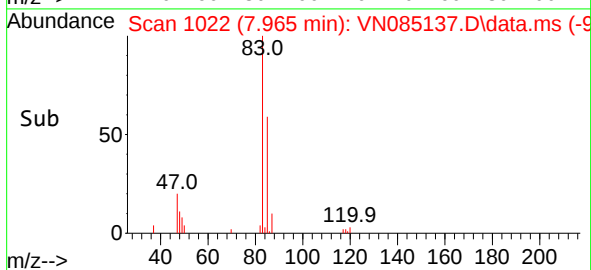
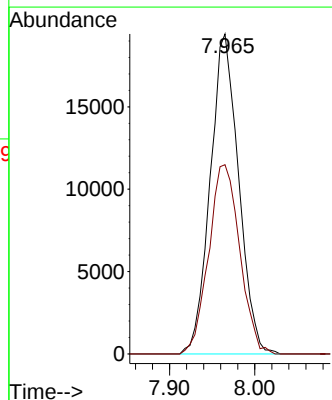
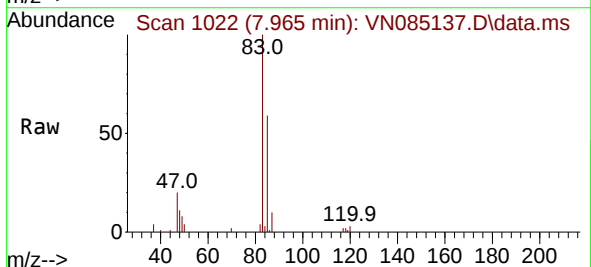
RT: 7.965 min Scan# 1022

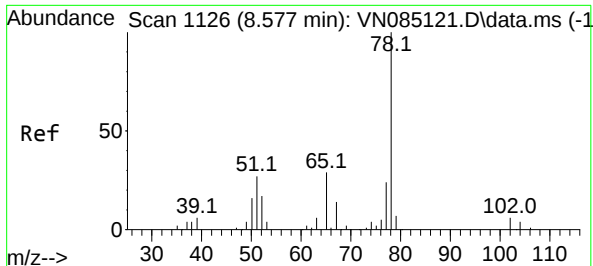
Delta R.T. 0.006 min

Lab File: VN085137.D

Acq: 06 Dec 2024 19:15

Tgt Ion:	83	Resp:	44991
Ion	Ratio	Lower	Upper
83	100		
85	59.1	49.4	74.0

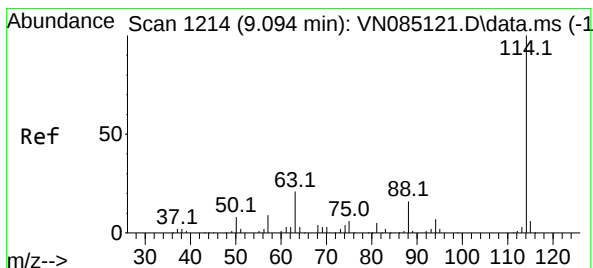
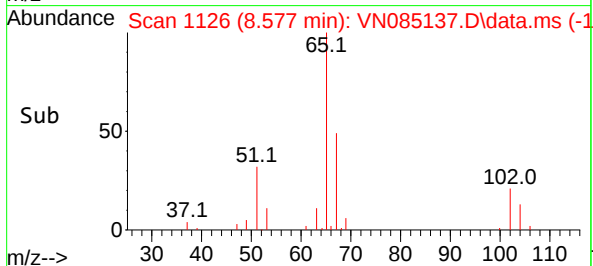
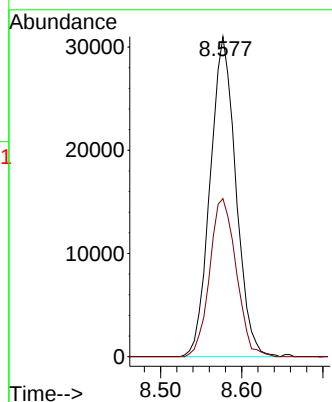
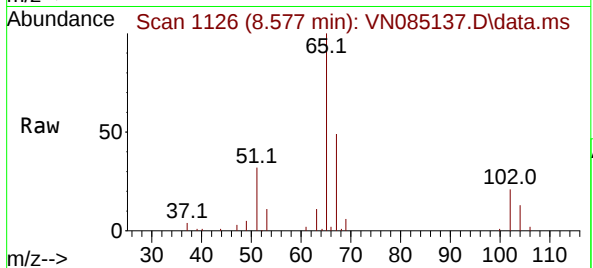




#27
1,2-Dichloroethane-d4
Concen: 30.211 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

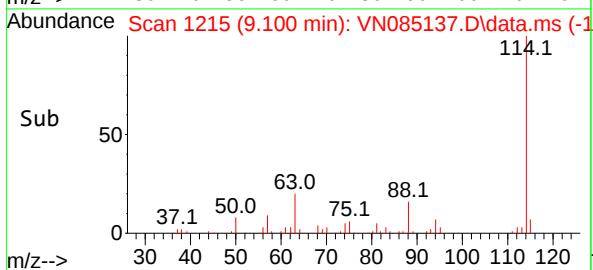
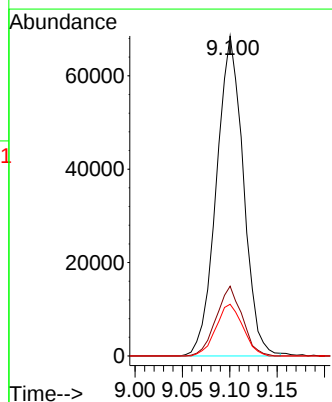
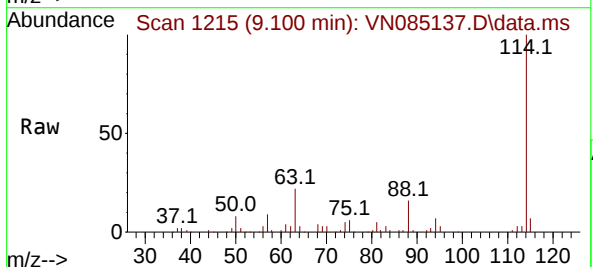
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MSVOA_N
ClientSampleId :

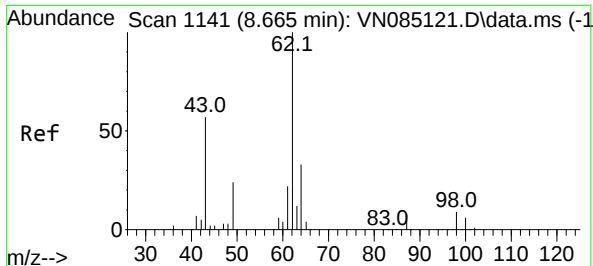
Tgt Ion: 65 Resp: 68242
Ion Ratio Lower Upper
65 100
67 50.9 39.9 59.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 114 Resp: 135463
Ion Ratio Lower Upper
114 100
63 21.1 16.2 24.2
88 16.2 12.5 18.7





#36

1,2-Dichloroethane

Concen: 2.159 ug/l

RT: 9.106 min Scan# 1141

Delta R.T. 0.441 min

Lab File: VN085137.D

Acq: 06 Dec 2024 19:15

Instrument :

MSVOA_N

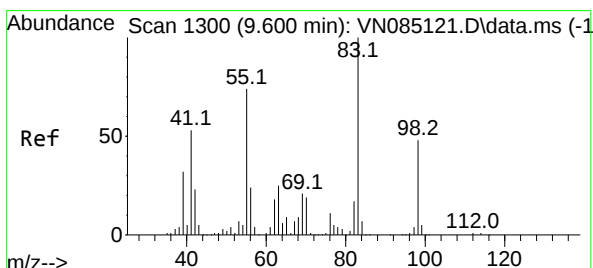
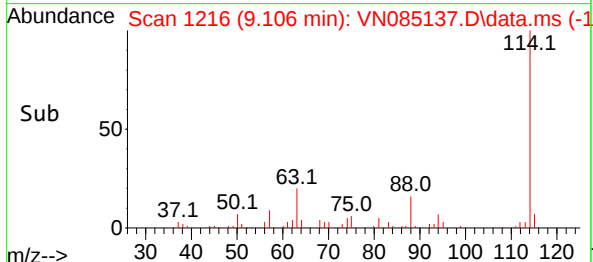
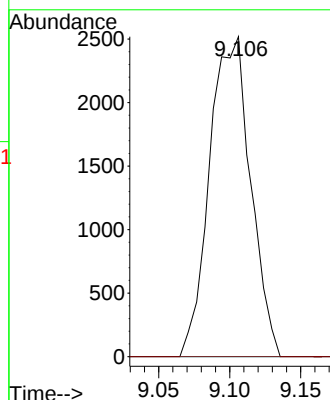
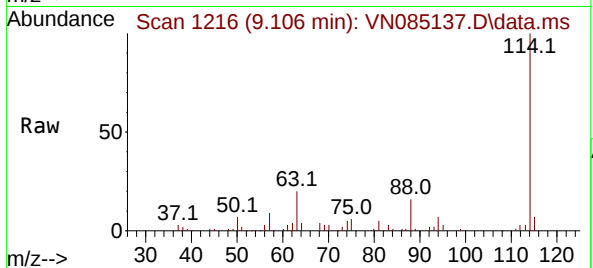
ClientSampleId :

Tgt Ion: 62 Resp: 5048

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#



#38

Methylcyclohexane

Concen: 0.791 ug/l

RT: 9.877 min Scan# 1347

Delta R.T. 0.277 min

Lab File: VN085137.D

Acq: 06 Dec 2024 19:15

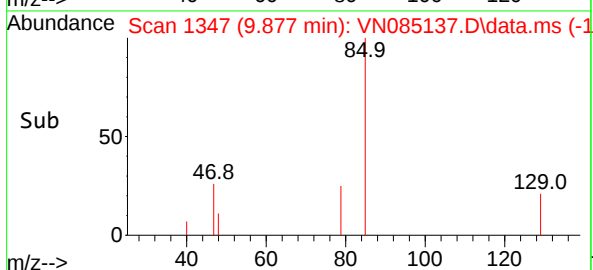
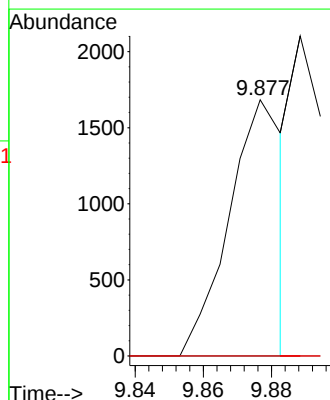
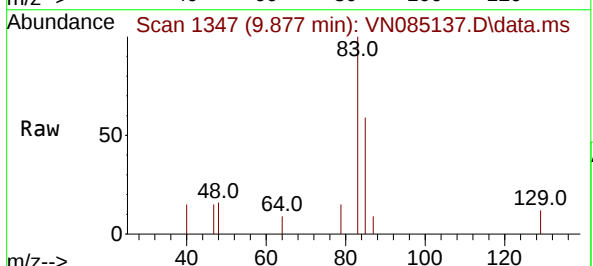
Tgt Ion: 83 Resp: 1879

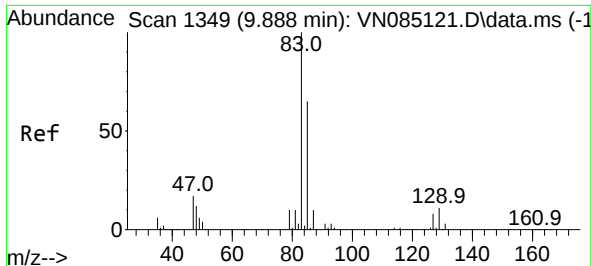
Ion Ratio Lower Upper

83 100

55 0.0 41.4 124.4#

98 0.0 25.7 77.1#

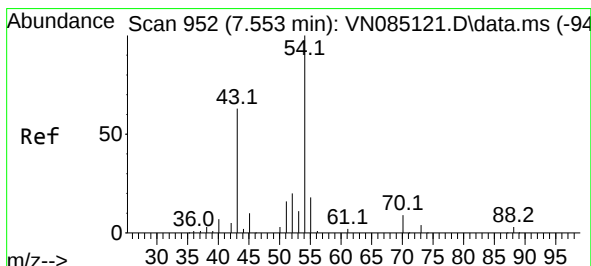
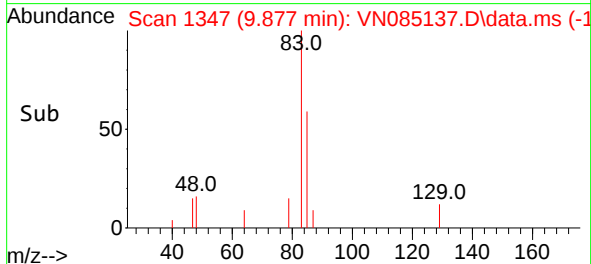
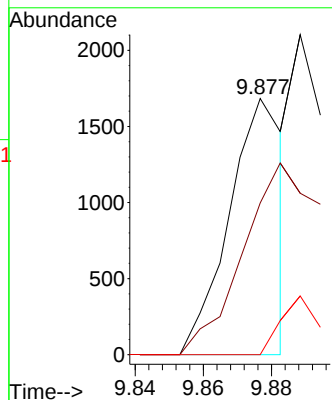
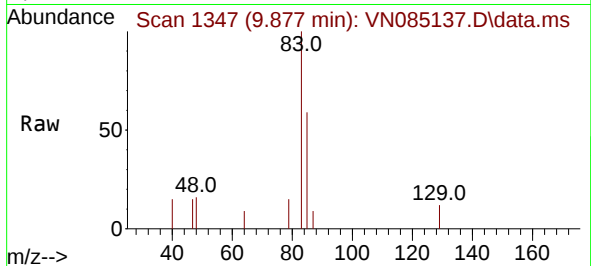




#41
Bromodichloromethane
Concen: 0.737 ug/l
RT: 9.877 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

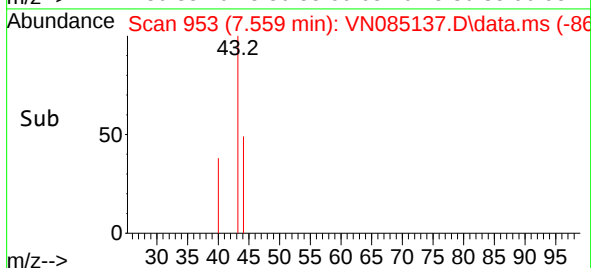
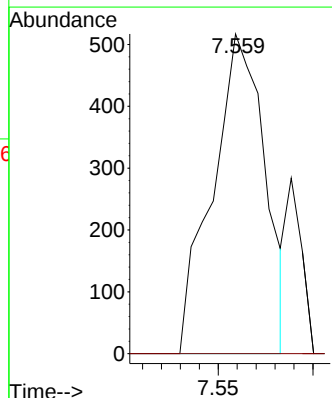
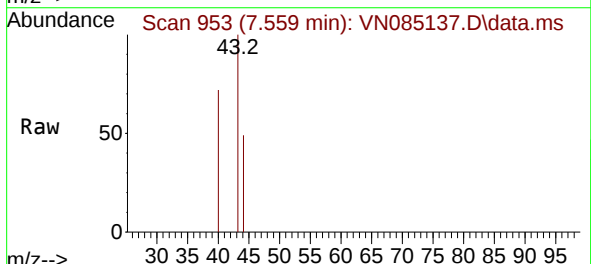
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MSVOA_N
ClientSampleId :

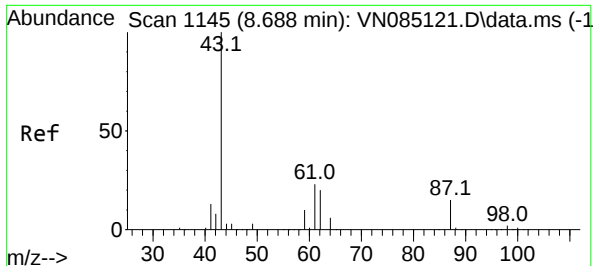
Tgt Ion: 83 Resp: 1879
Ion Ratio Lower Upper
83 100
85 59.2 54.6 81.8
127 0.0 7.0 10.6#



#43
Ethyl Acetate
Concen: 0.499 ug/l
RT: 7.559 min Scan# 953
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 43 Resp: 995
Ion Ratio Lower Upper
43 100
45 0.0 13.3 19.9#

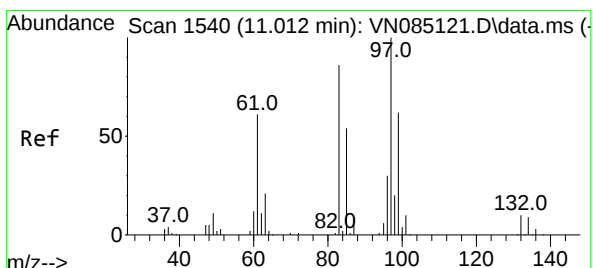
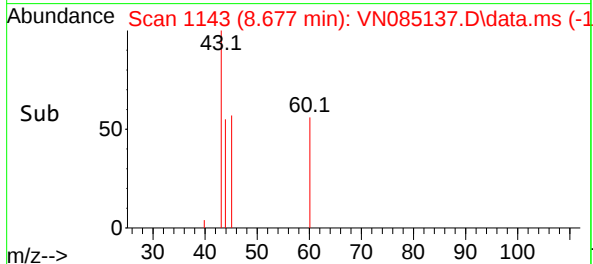
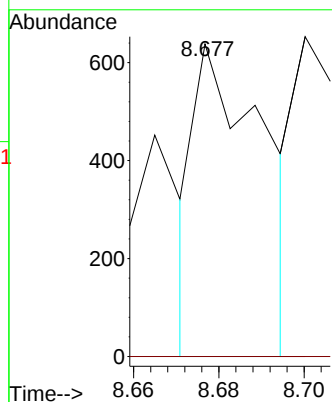
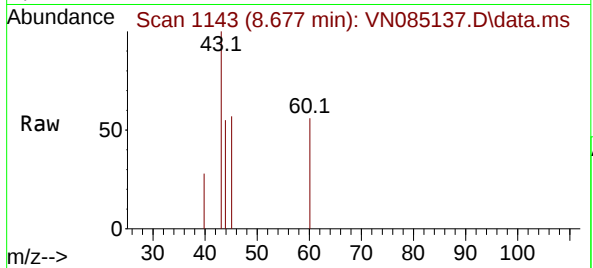




#44
Isopropyl Acetate
Concen: 0.206 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.012 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

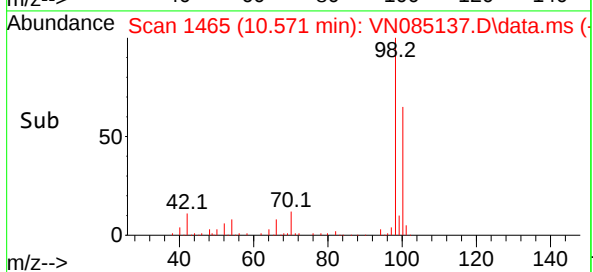
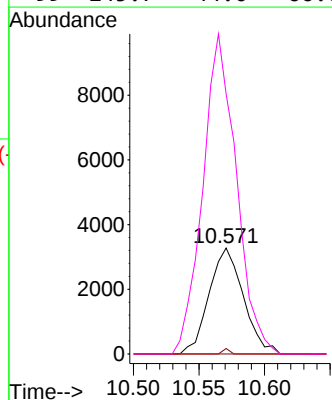
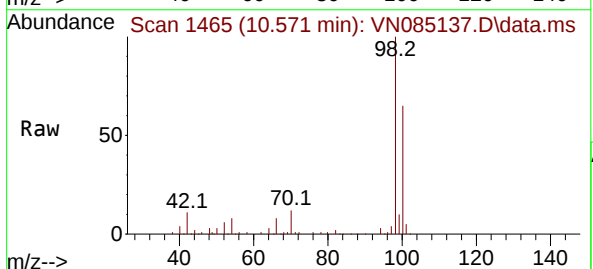
Instrument :
MSVOA_N
ClientSampleId :

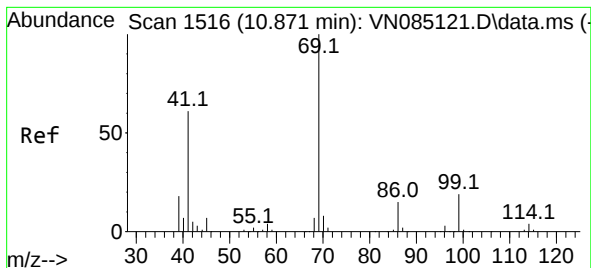
Tgt Ion: 43 Resp: 716
Ion Ratio Lower Upper
43 100
61 0.0 21.5 32.3#



#50
1,1,2-Trichloroethane
Concen: 3.703 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.441 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 97 Resp: 5953
Ion Ratio Lower Upper
97 100
83 5.1 65.8 98.8#
85 0.0 40.8 61.2#
99 245.7 44.0 66.0#

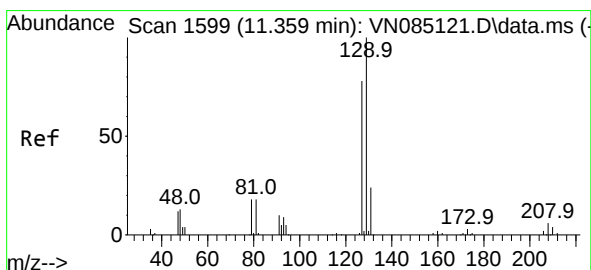
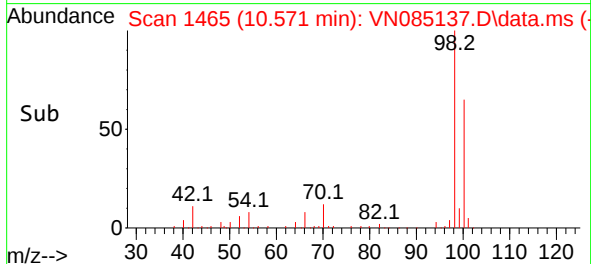
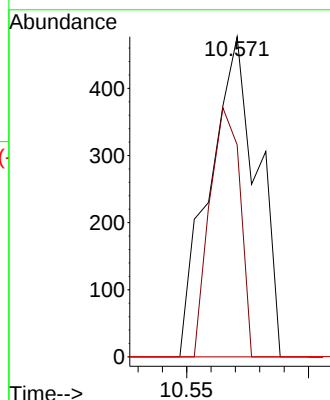
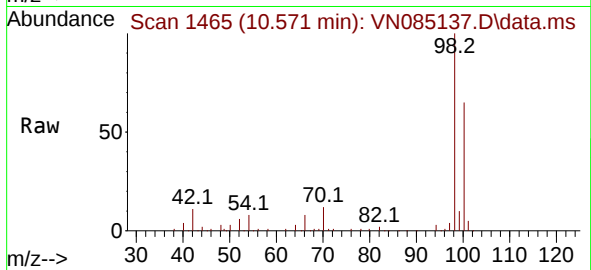




#51
Ethyl methacrylate
Concen: 0.267 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.300 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

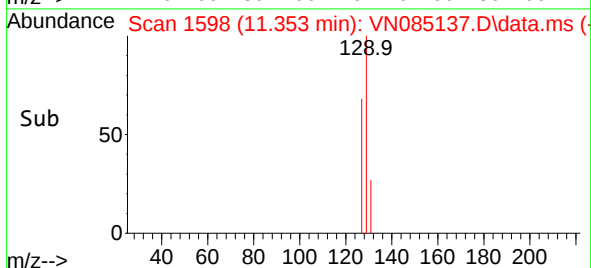
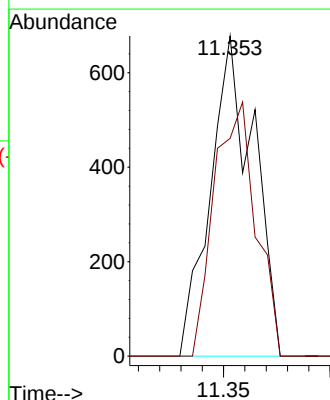
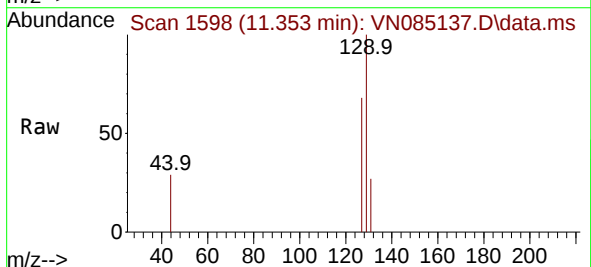
Instrument :
MSVOA_N
ClientSampleId :

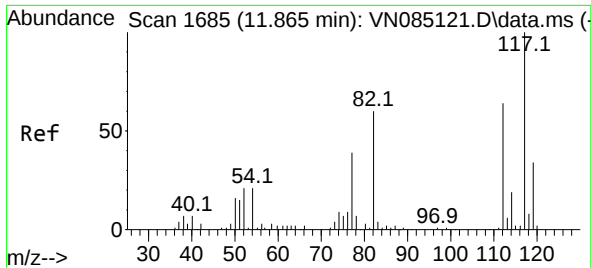
Tgt Ion: 69 Resp: 652
Ion Ratio Lower Upper
69 100
41 66.2 32.1 96.3
39 0.0 18.8 56.4#



#53
Dibromochloromethane
Concen: 0.491 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

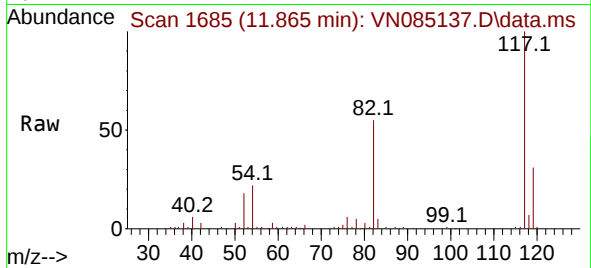
Tgt Ion:129 Resp: 962
Ion Ratio Lower Upper
129 100
127 76.2 37.3 111.9



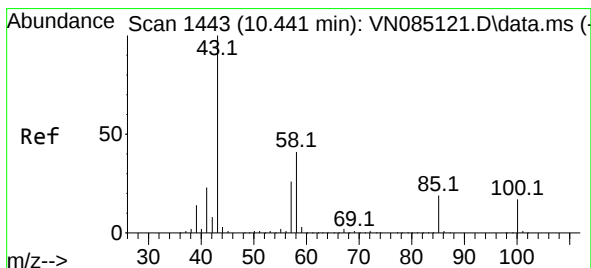
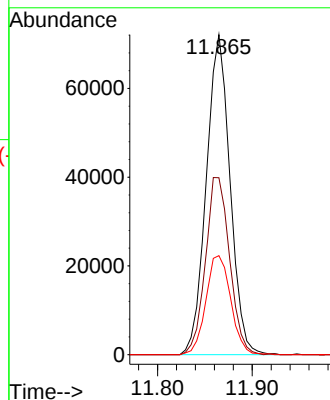
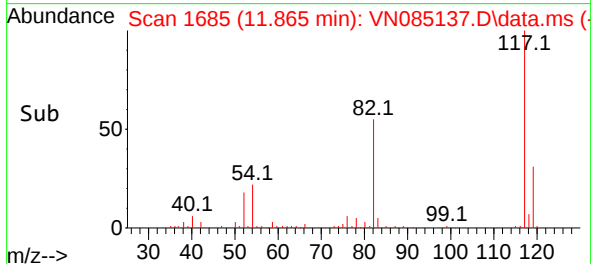


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Instrument :
MSVOA_N
ClientSampleId :

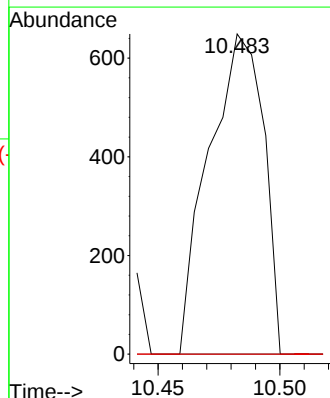
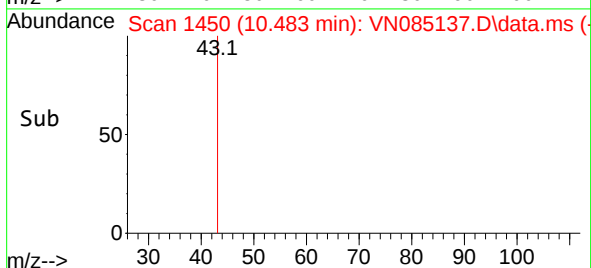
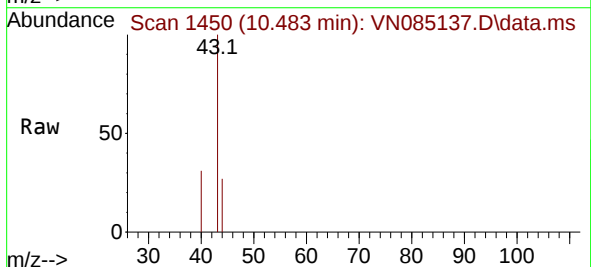


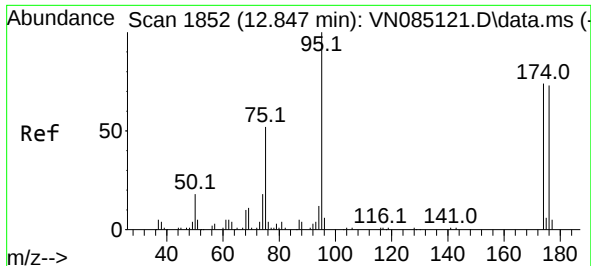
Tgt Ion:117 Resp: 125958
Ion Ratio Lower Upper
117 100
82 56.3 44.2 66.4
119 32.4 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.495 ug/l
RT: 10.483 min Scan# 1450
Delta R.T. 0.041 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 43 Resp: 1018
Ion Ratio Lower Upper
43 100
58 0.0 31.6 47.4#
85 0.0 15.0 22.6#

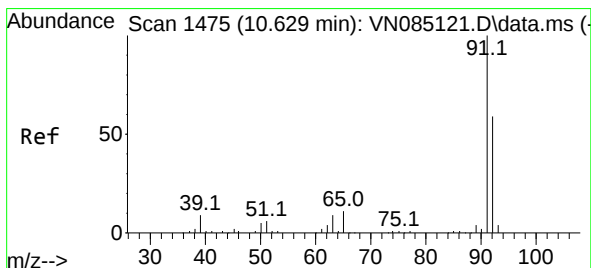
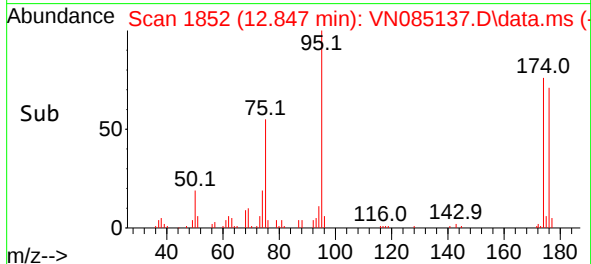
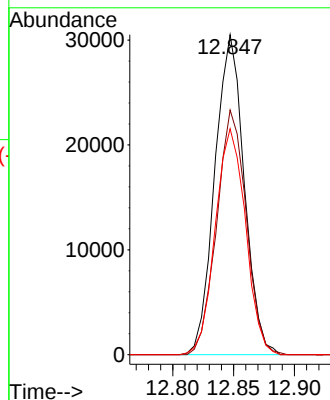
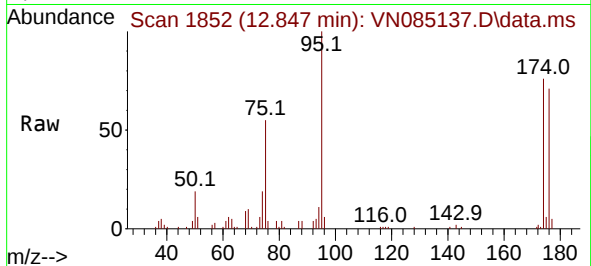




#60
4-Bromofluorobenzene
Concen: 24.555 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

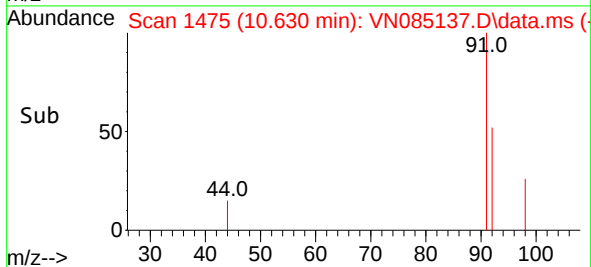
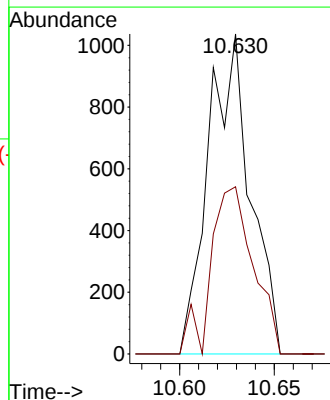
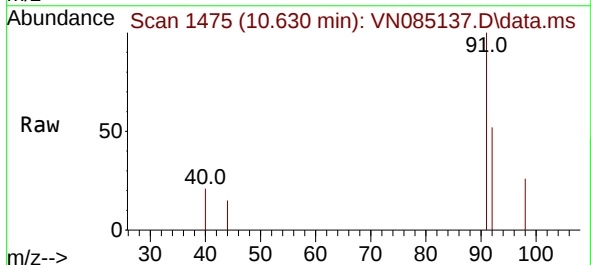
Instrument :
MSVOA_N
ClientSampleId :

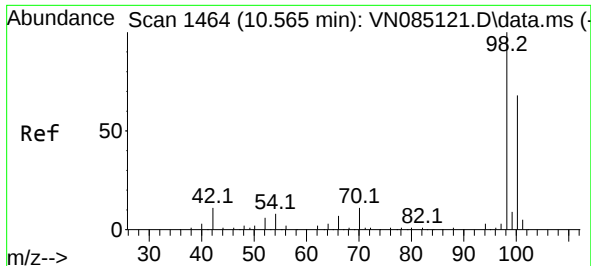
Tgt Ion: 95 Resp: 51175
Ion Ratio Lower Upper
95 100
174 77.0 60.3 90.5
176 72.7 57.4 86.0



#62
Toluene
Concen: 0.218 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 91 Resp: 1600
Ion Ratio Lower Upper
91 100
92 49.2 46.5 69.7

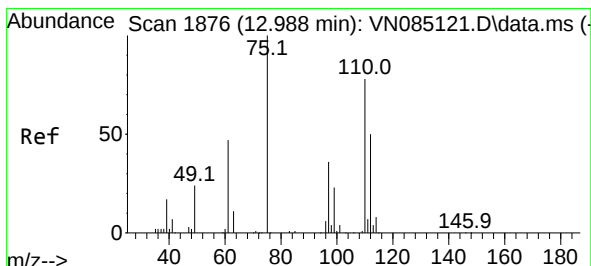
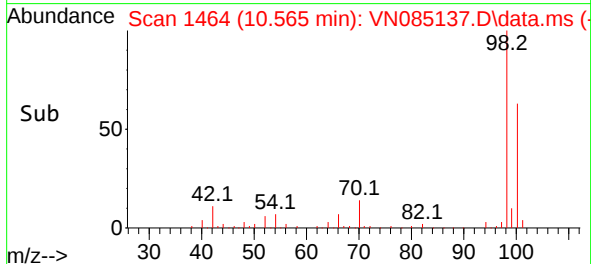
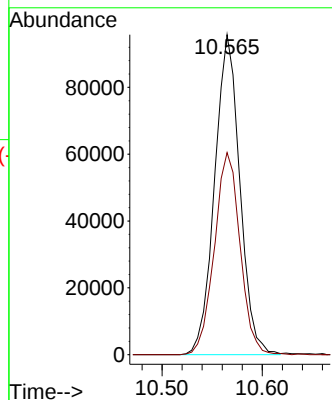
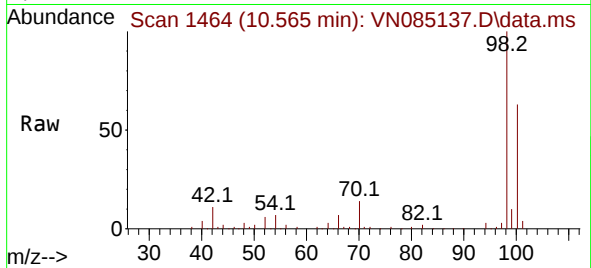




#63
Toluene-d8
Concen: 28.284 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

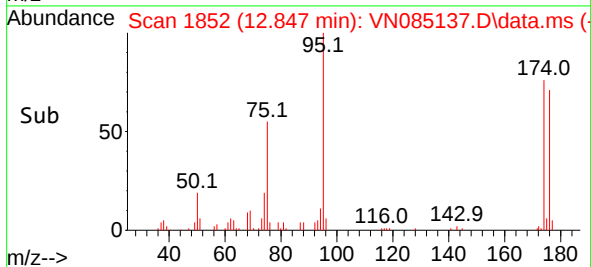
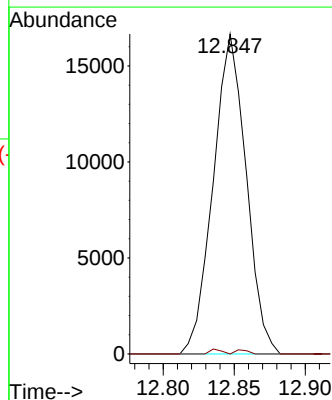
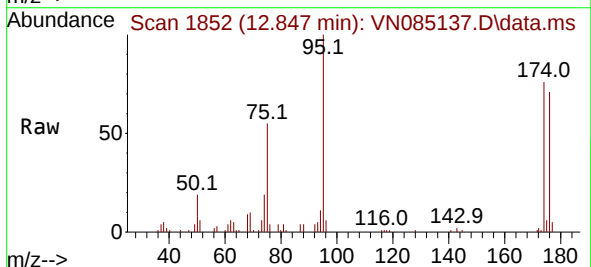
Instrument :
MSVOA_N
ClientSampleId :

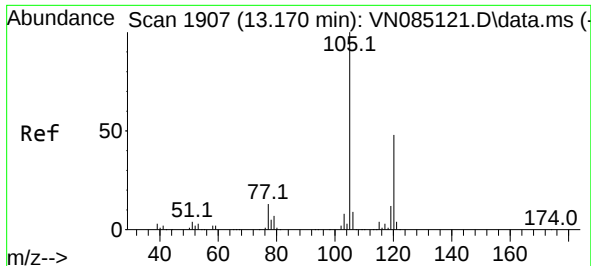
Tgt Ion: 98 Resp: 167117
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#72
1,2,3-Trichloropropane
Concen: 12.295 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 75 Resp: 26847
Ion Ratio Lower Upper
75 100
77 0.5 0.0 339.0

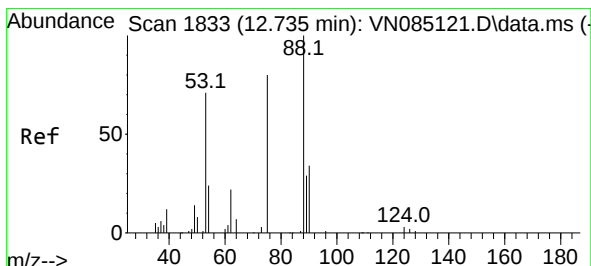
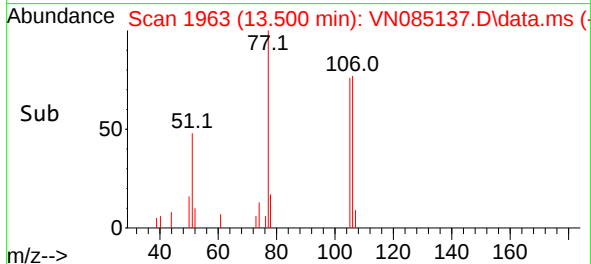
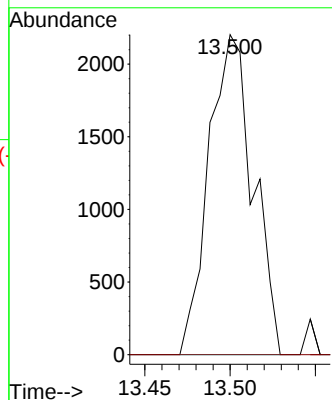
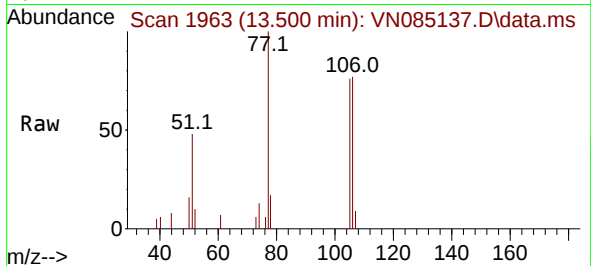




#76
1,3,5-Trimethylbenzene
Concen: 0.641 ug/l
RT: 13.500 min Scan# 1907
Delta R.T. 0.330 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

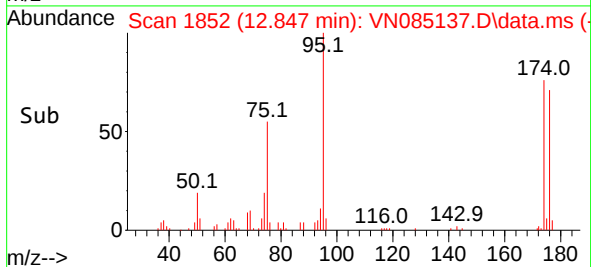
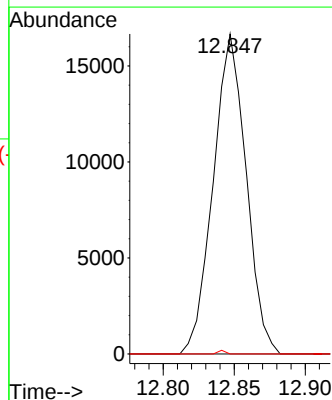
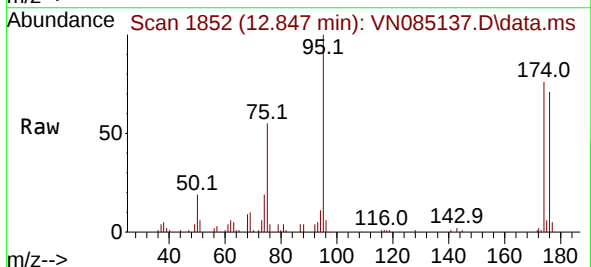
Instrument :
MSVOA_N
ClientSampleId :

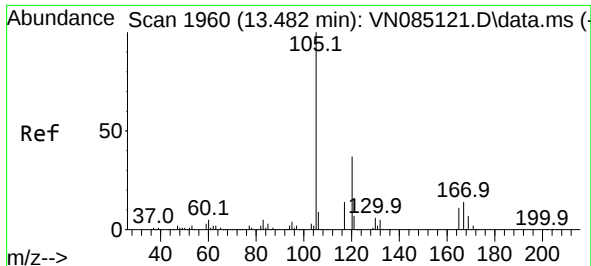
Tgt Ion:105 Resp: 3991
Ion Ratio Lower Upper
105 100
120 0.0 0.0 94.4



#77
t-1,4-Dichloro-2-butene
Concen: 33.837 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Tgt Ion: 75 Resp: 26847
Ion Ratio Lower Upper
75 100
53 0.0 49.1 147.3#
89 0.0 22.9 68.5#

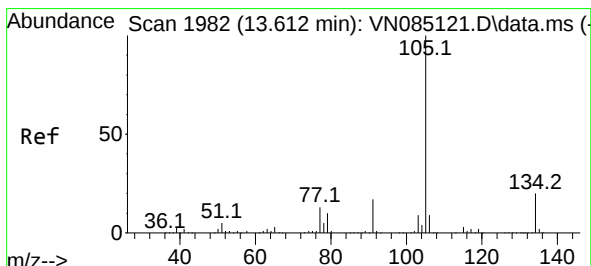
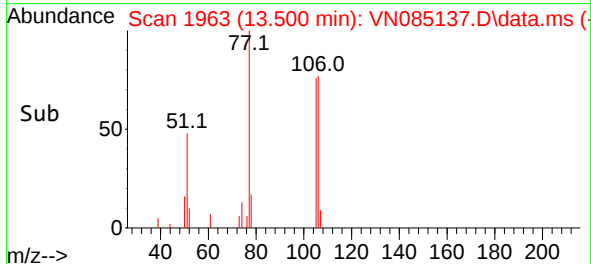
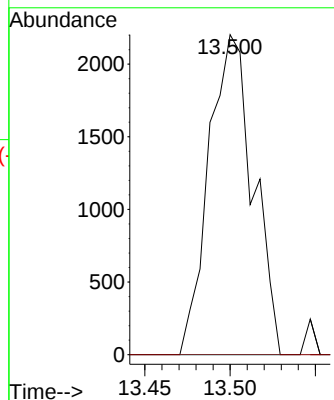
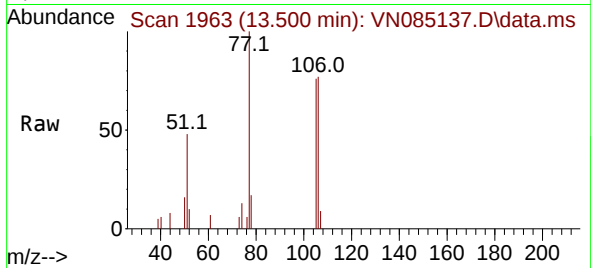




#80
1,2,4-Trimethylbenzene
Concen: 0.649 ug/l
RT: 13.500 min Scan# 1963
Delta R.T. 0.024 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

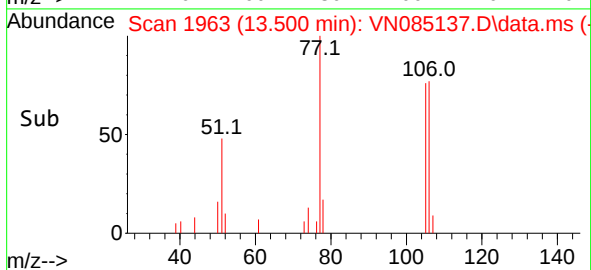
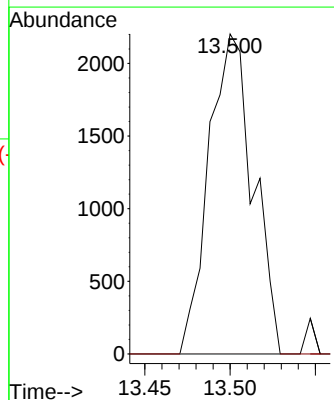
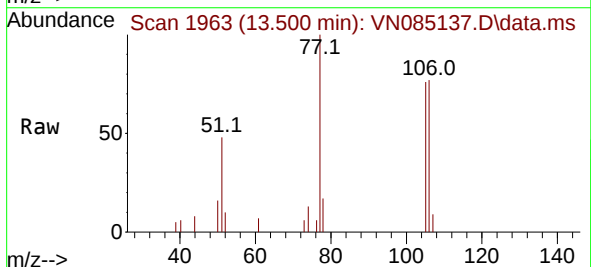
Instrument :
MSVOA_N
ClientSampleId :

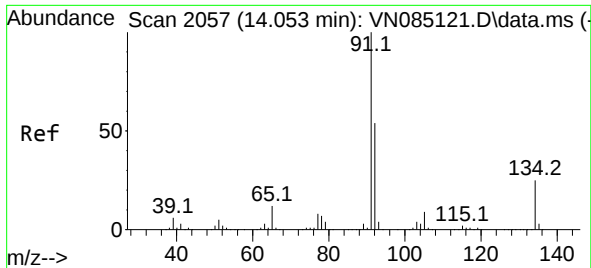
Tgt Ion:105 Resp: 3991
Ion Ratio Lower Upper
105 100
120 0.0 0.0 87.4



#81
sec-Butylbenzene
Concen: 0.550 ug/l
RT: 13.500 min Scan# 1963
Delta R.T. -0.112 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

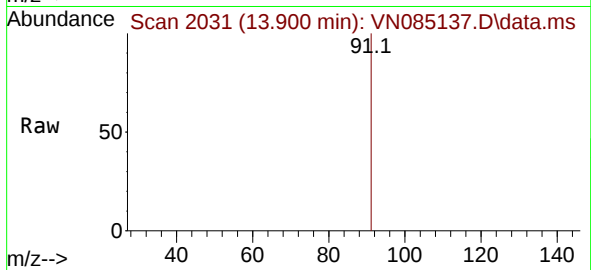
Tgt Ion:105 Resp: 3991
Ion Ratio Lower Upper
105 100
134 0.0 0.0 38.0





#85
n-Butylbenzene
Concen: 0.218 ug/l
RT: 13.900 min Scan# 2057
Delta R.T. -0.153 min
Lab File: VN085137.D
Acq: 06 Dec 2024 19:15

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 91 Resp: 1102

Ion	Ratio	Lower	Upper
91	100		
92	0.0	0.0	104.0
134	0.0	0.0	49.2

