

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085210.D
 Acq On : 16 Dec 2024 11:21
 Operator : JC\MD
 Sample : VN1216WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 16 12:22:18 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)

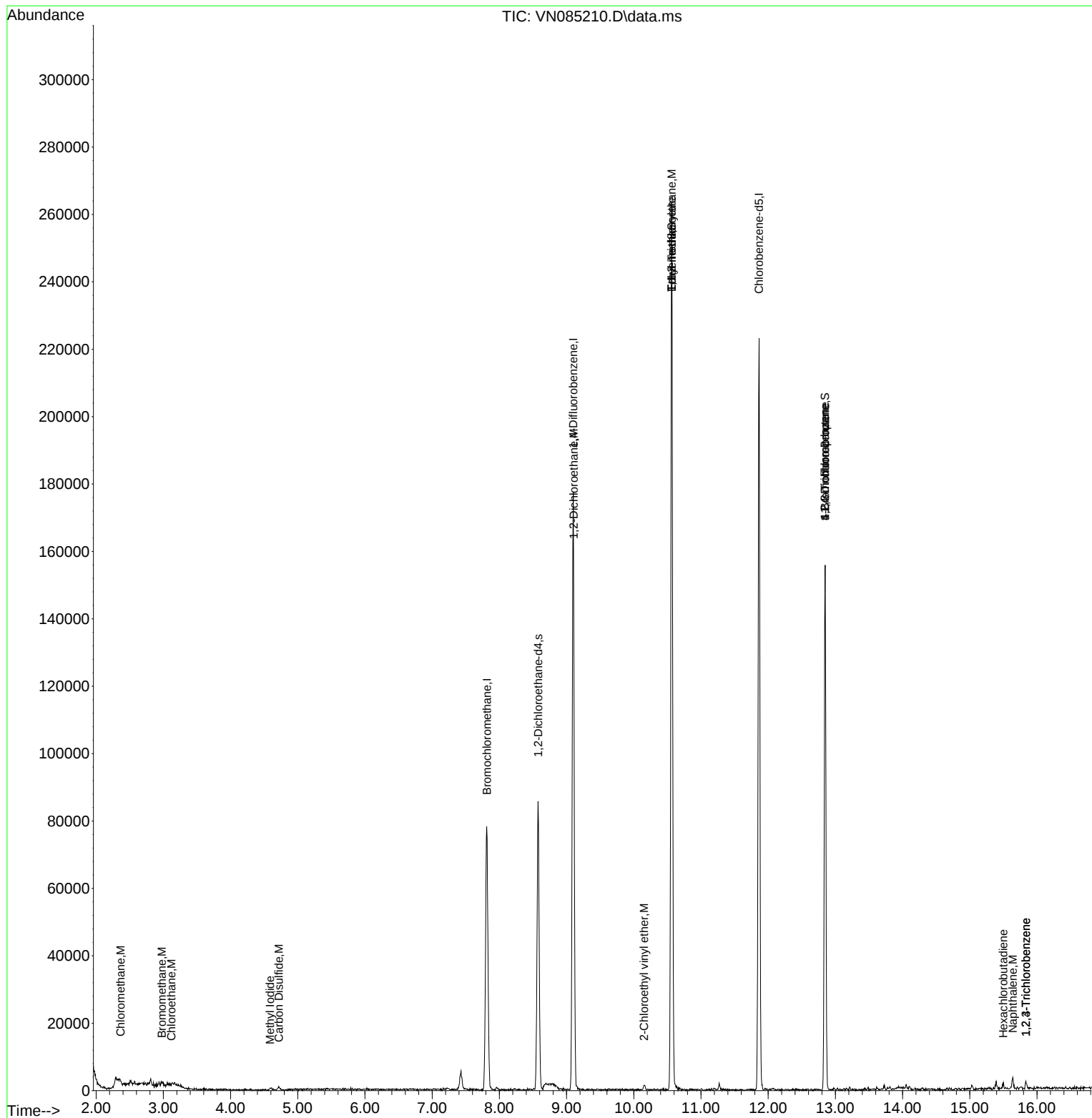
Internal Standards						
1) Bromochloromethane	7.818	128	28325	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	149220	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	129681	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	69798	31.056	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.533%
60) 4-Bromofluorobenzene	12.847	95	54141	25.232	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.100%
63) Toluene-d8	10.565	98	177437	29.169	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.233%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	561	0.280	ug/l #	43
5) Bromomethane	2.977	94	745	0.572	ug/l #	60
6) Chloroethane	3.118	64	321	0.255	ug/l #	43
11) Methyl Iodide	4.589	142	602	0.252	ug/l #	39
16) Carbon Disulfide	4.718	76	1069	0.207	ug/l #	75
36) 1,2-Dichloroethane	9.106	62	5625	2.184	ug/l #	75
50) 1,1,2-Trichloroethane	10.565	97	5432	3.067	ug/l #	1
51) Ethyl methacrylate	10.565	69	547	0.203	ug/l #	67
55) 2-Chloroethyl vinyl ether	10.153	63	656	0.524	ug/l #	84
72) 1,2,3-Trichloropropane	12.847	75	28686	12.760	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	28686	35.116	ug/l #	10
89) 1,2,4-Trichlorobenzene	15.835	180	894	0.563	ug/l	94
90) Hexachlorobutadiene	15.500	225	286	0.347	ug/l #	1
91) Naphthalene	15.641	128	3981	0.807	ug/l #	76
92) 1,2,3-Trichlorobenzene	15.835	180	894	0.563	ug/l	94

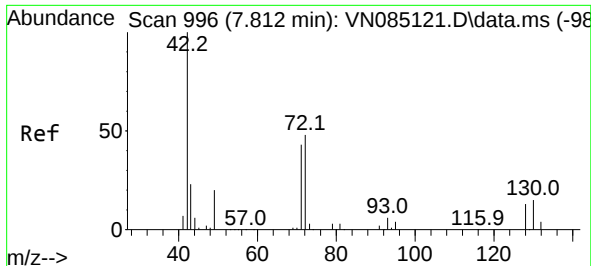
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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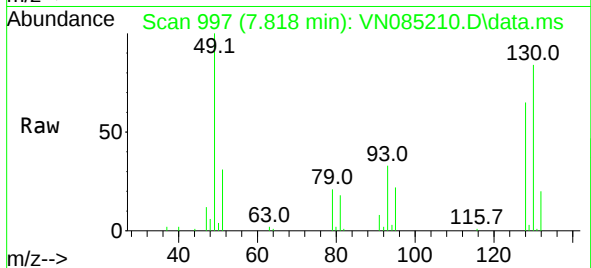
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
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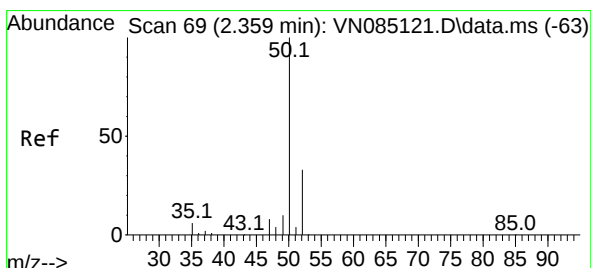
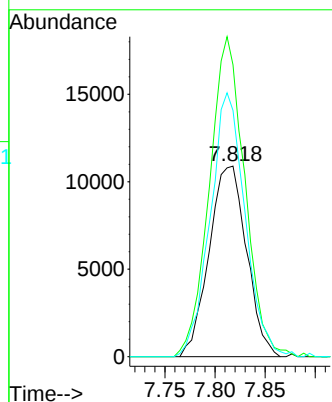
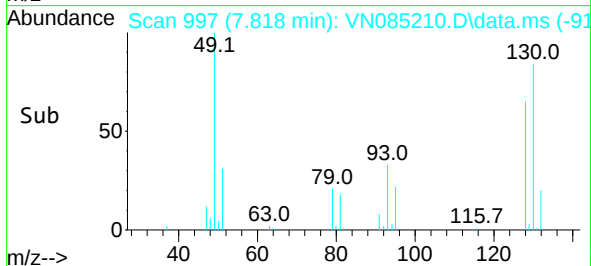


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

Instrument :
MSVOA_N
ClientSampleId :

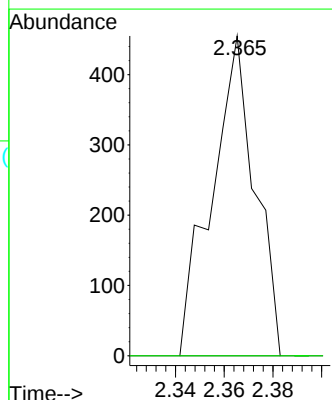
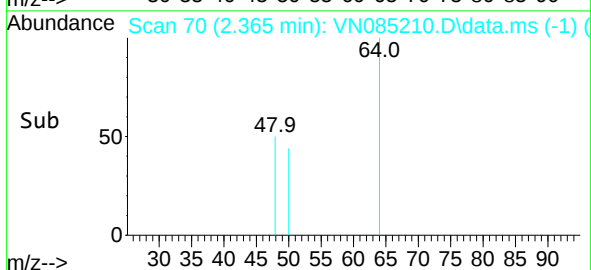
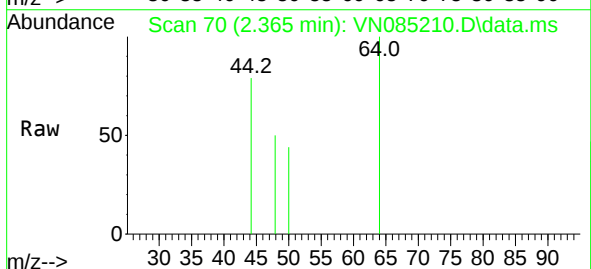


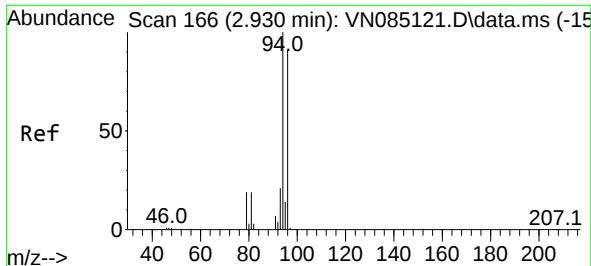
Tgt Ion:128 Resp: 28325
Ion Ratio Lower Upper
128 100
49 158.0 0.0 394.5
130 129.1 0.0 316.5



#3
Chloromethane
Concen: 0.280 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

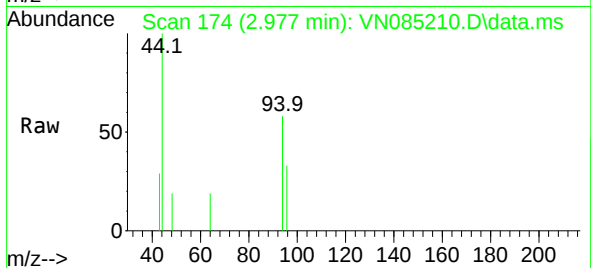
Tgt Ion: 50 Resp: 561
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



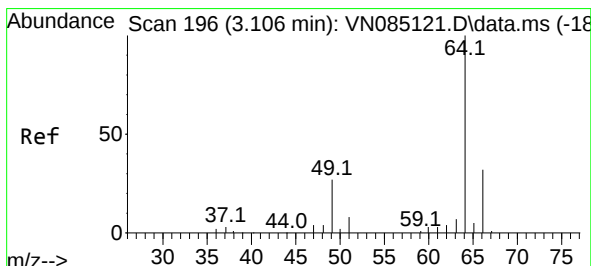
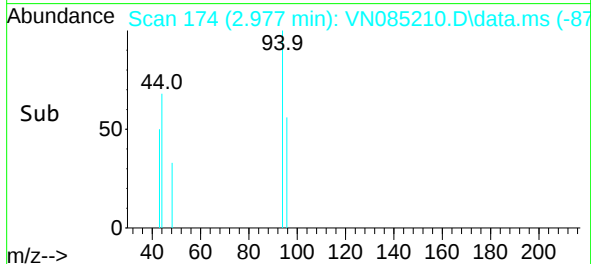
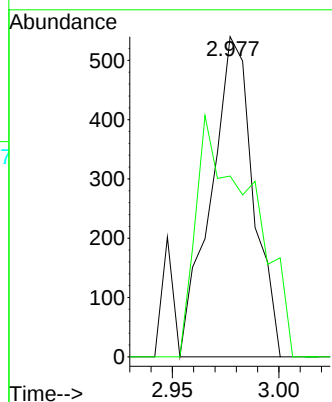


#5
Bromomethane
Concen: 0.572 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

Instrument :
MSVOA_N
ClientSampleId :

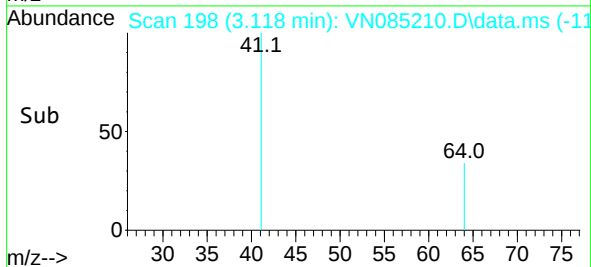
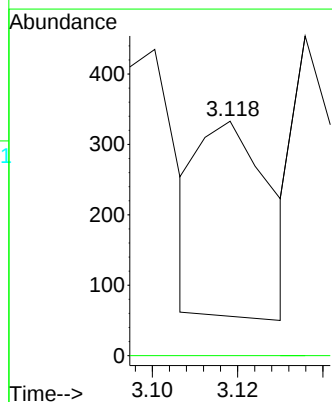
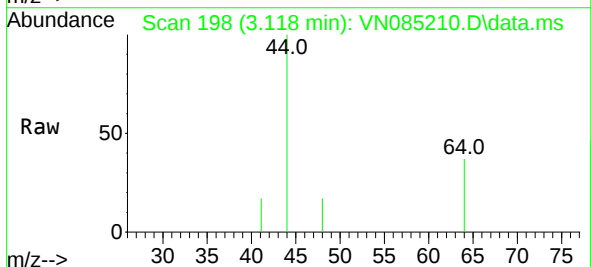


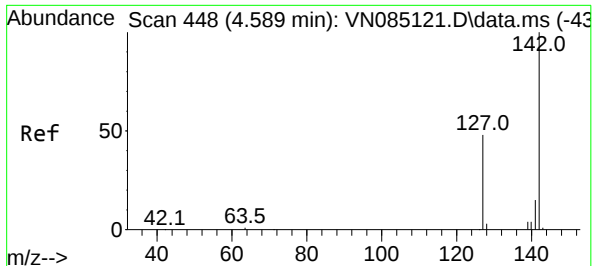
Tgt Ion: 94 Resp: 745
Ion Ratio Lower Upper
94 100
96 56.5 76.2 114.4#



#6
Chloroethane
Concen: 0.255 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

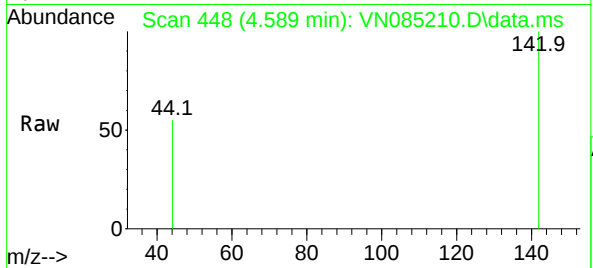
Tgt Ion: 64 Resp: 321
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



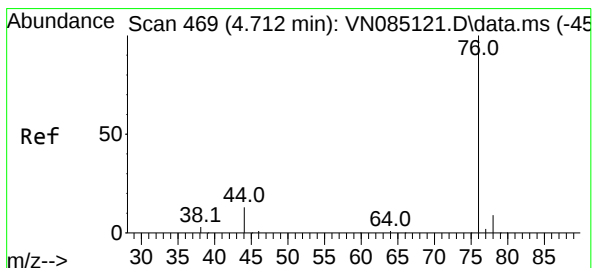
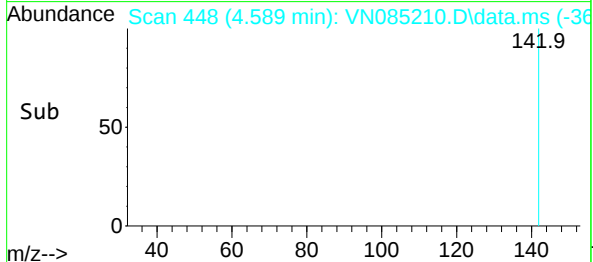
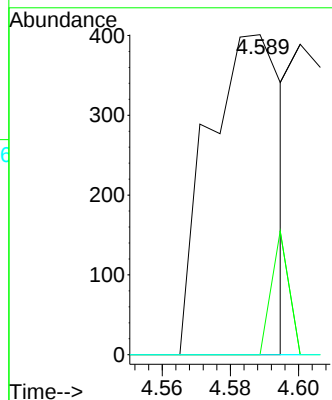


#11
Methyl Iodide
Concen: 0.252 ug/l
RT: 4.589 min Scan# 44
Delta R.T. 0.000 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

Instrument :
MSVOA_N
ClientSampleId :

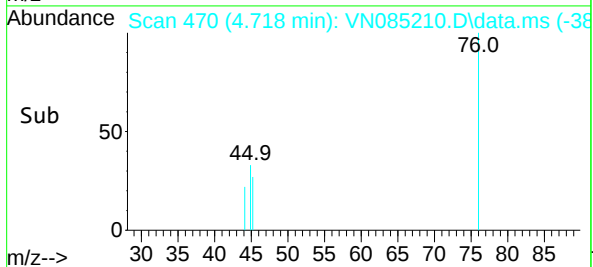
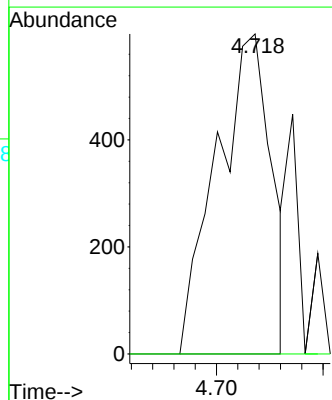
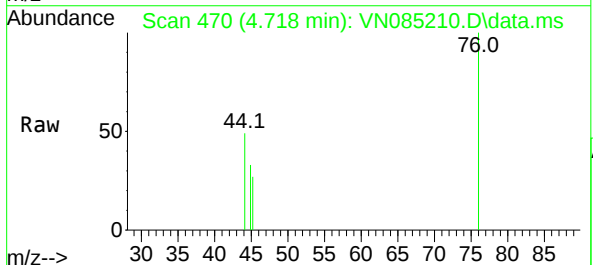


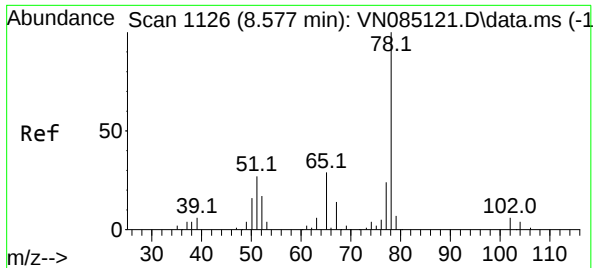
Tgt Ion:142 Resp: 602
Ion Ratio Lower Upper
142 100
127 0.0 22.5 67.5#
141 0.0 8.3 24.9#



#16
Carbon Disulfide
Concen: 0.207 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

Tgt Ion: 76 Resp: 1069
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

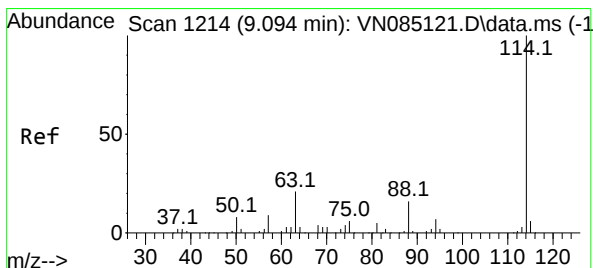
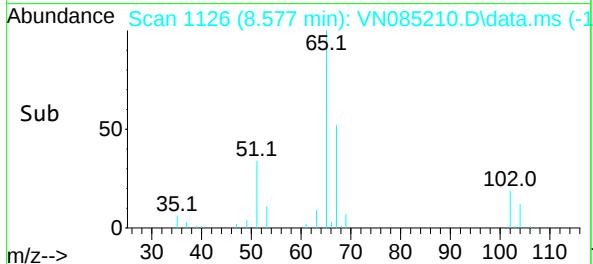
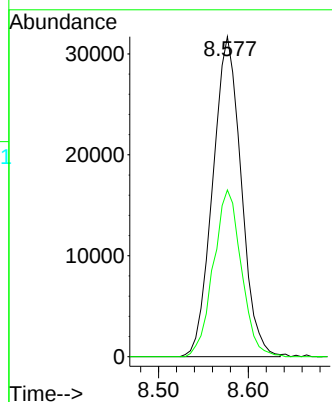
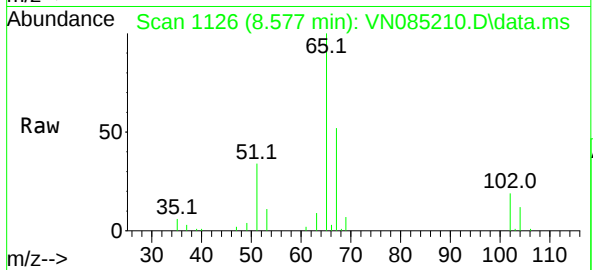




#27
 1,2-Dichloroethane-d4
 Concen: 31.056 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN085210.D
 Acq: 16 Dec 2024 11:21

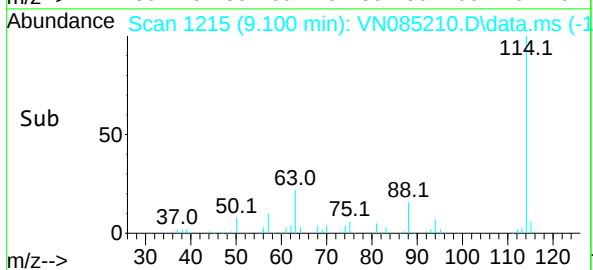
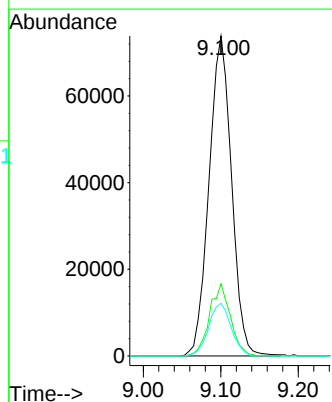
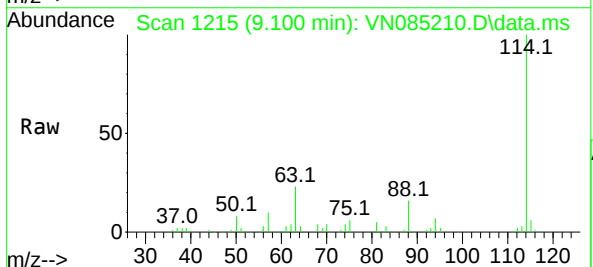
Instrument :
 MSVOA_N
 ClientSampleId :

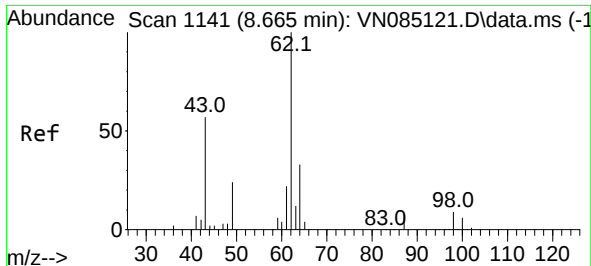
Tgt Ion: 65 Resp: 69798
 Ion Ratio Lower Upper
 65 100
 67 51.1 39.9 59.9



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN085210.D
 Acq: 16 Dec 2024 11:21

Tgt Ion: 114 Resp: 149220
 Ion Ratio Lower Upper
 114 100
 63 20.9 16.2 24.2
 88 16.4 12.5 18.7





#36

1,2-Dichloroethane

Concen: 2.184 ug/l

RT: 9.106 min Scan# 1141

Delta R.T. 0.441 min

Lab File: VN085210.D

Acq: 16 Dec 2024 11:21

Instrument :

MSVOA_N

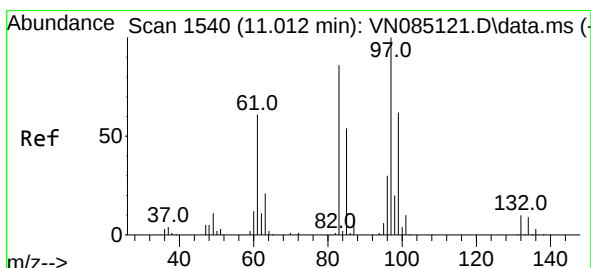
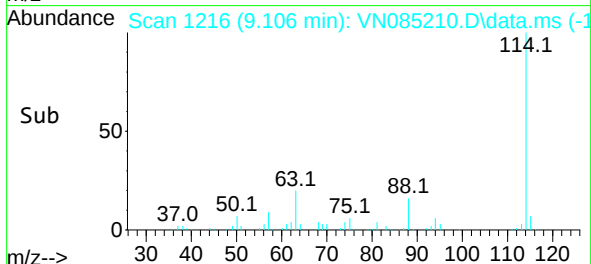
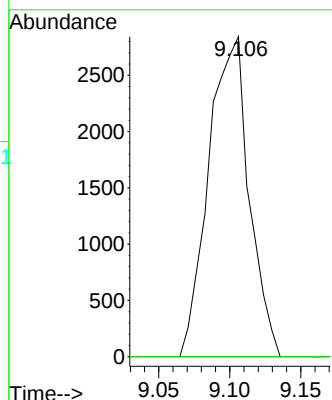
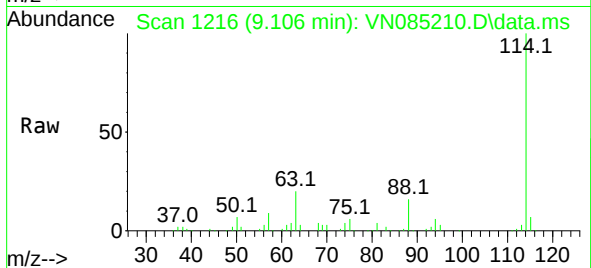
ClientSampleId :

Tgt Ion: 62 Resp: 5625

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#



#50

1,1,2-Trichloroethane

Concen: 3.067 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.447 min

Lab File: VN085210.D

Acq: 16 Dec 2024 11:21

Tgt Ion: 97 Resp: 5432

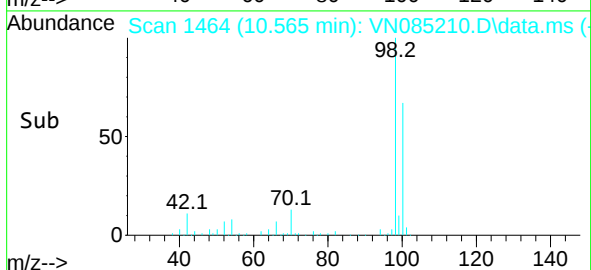
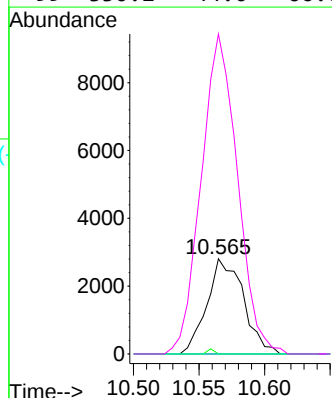
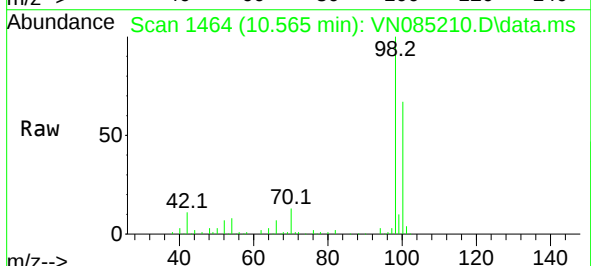
Ion Ratio Lower Upper

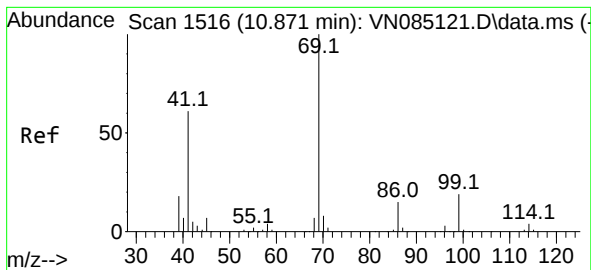
97 100

83 0.0 65.8 98.8#

85 0.0 40.8 61.2#

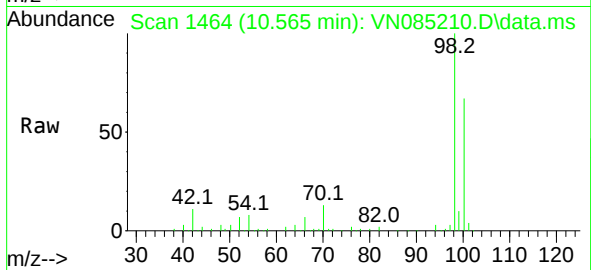
99 330.2 44.0 66.0#



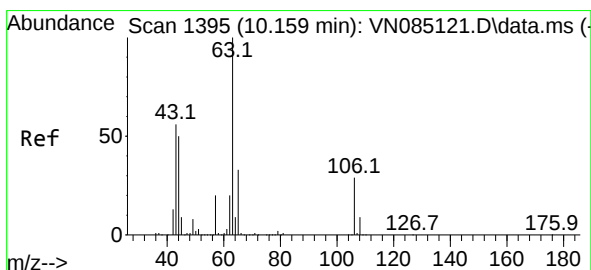
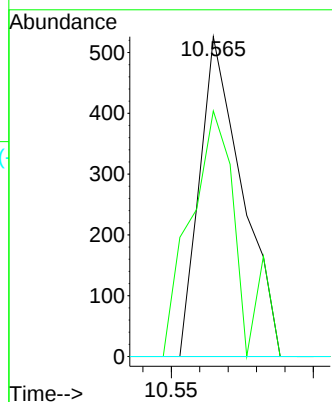
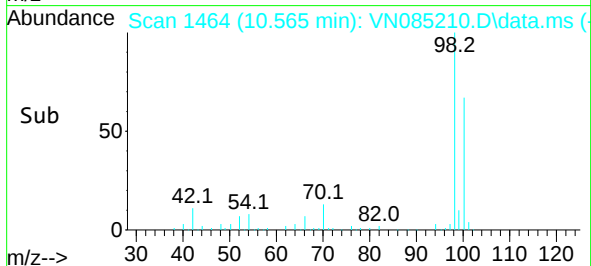


#51
Ethyl methacrylate
Concen: 0.203 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.306 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

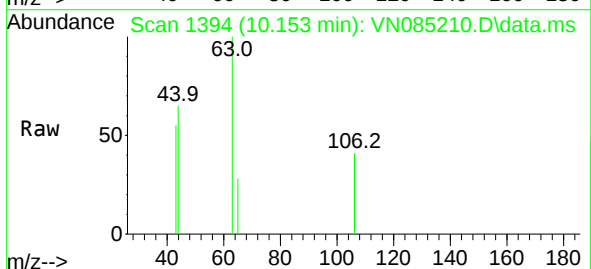
Instrument :
MSVOA_N
ClientSampleId :



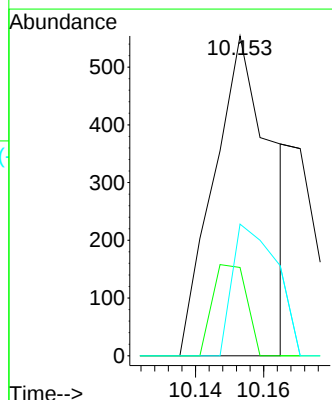
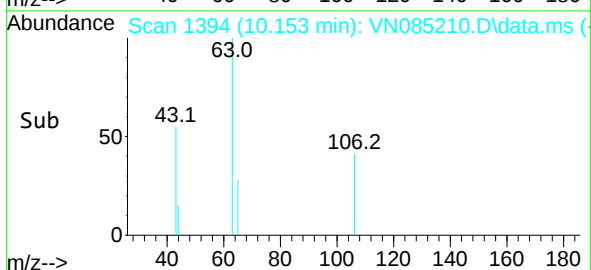
Tgt Ion: 69 Resp: 547
Ion Ratio Lower Upper
69 100
41 76.8 32.1 96.3
39 0.0 18.8 56.4#

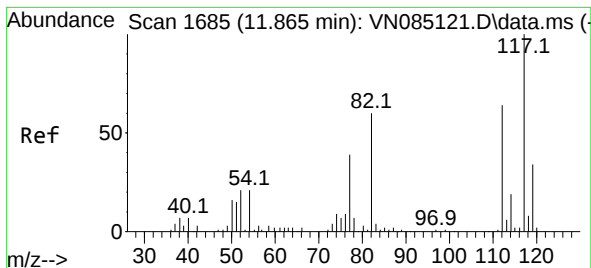


#55
2-Chloroethyl vinyl ether
Concen: 0.524 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21



Tgt Ion: 63 Resp: 656
Ion Ratio Lower Upper
63 100
65 16.8 25.9 38.9#
106 31.4 23.5 35.3

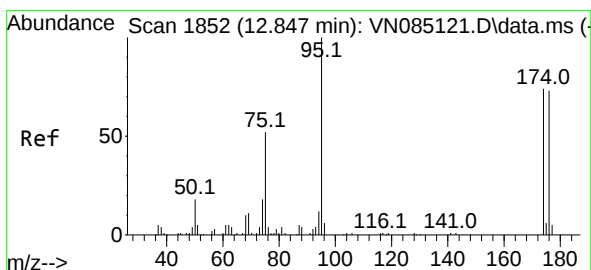
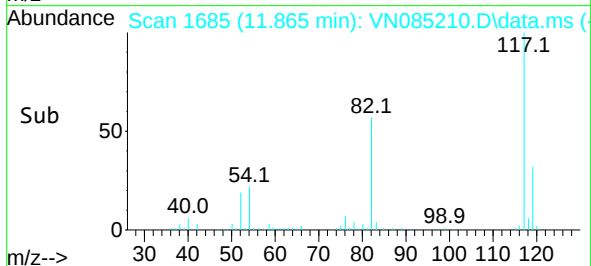
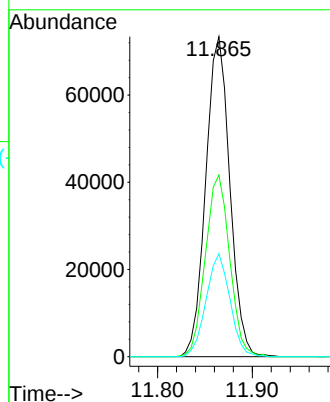
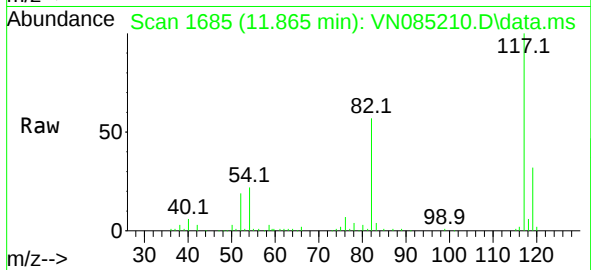




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

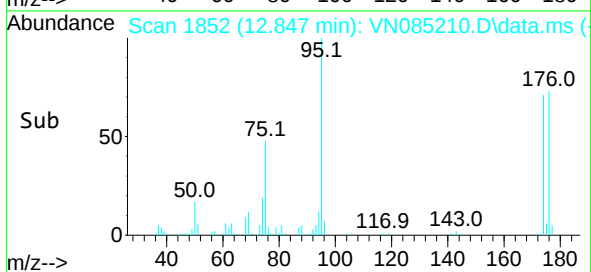
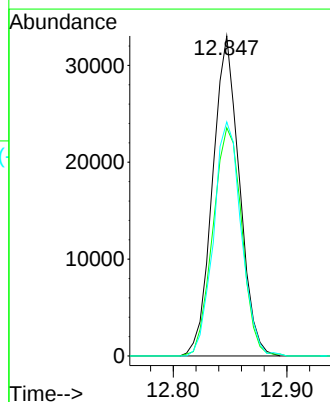
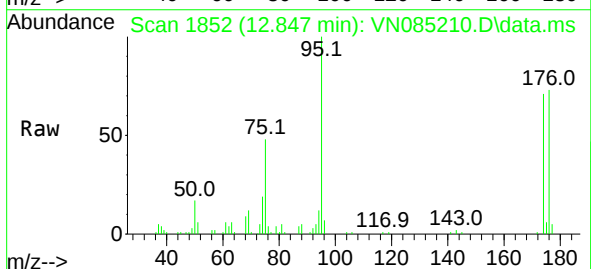
Instrument :
MSVOA_N
ClientSampleId :

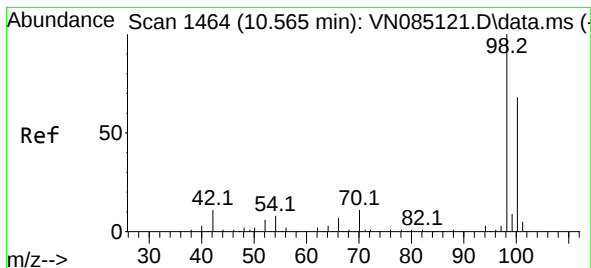
Tgt Ion:117 Resp: 129681
Ion Ratio Lower Upper
117 100
82 57.3 44.2 66.4
119 31.9 25.4 38.2



#60
4-Bromofluorobenzene
Concen: 25.232 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

Tgt Ion: 95 Resp: 54141
Ion Ratio Lower Upper
95 100
174 76.7 60.3 90.5
176 75.3 57.4 86.0





#63

Toluene-d8

Concen: 29.169 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085210.D

Acq: 16 Dec 2024 11:21

Instrument :

MSVOA_N

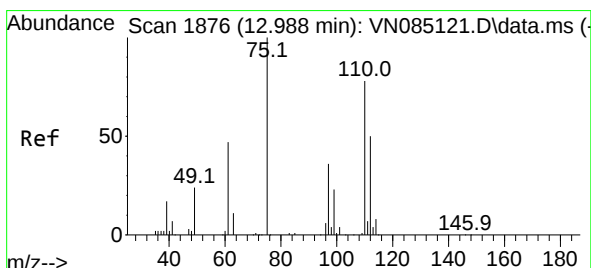
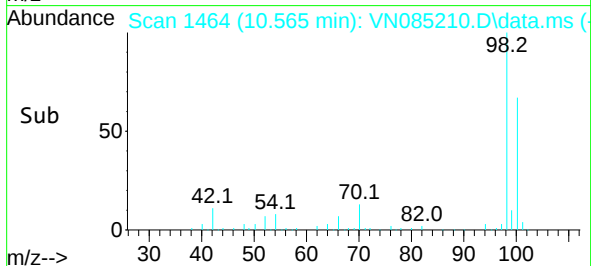
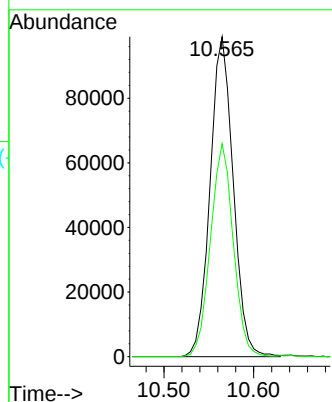
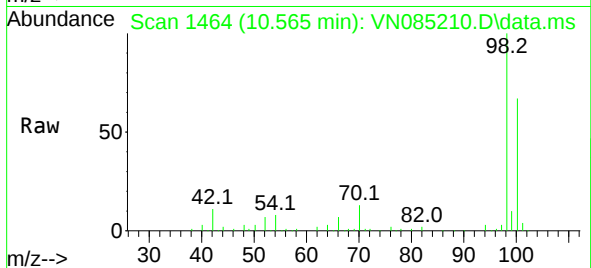
ClientSampleId :

Tgt Ion: 98 Resp: 177437

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0



#72

1,2,3-Trichloropropane

Concen: 12.760 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN085210.D

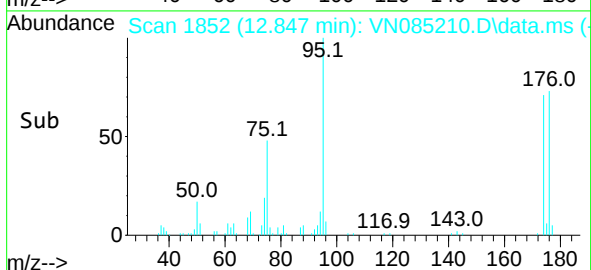
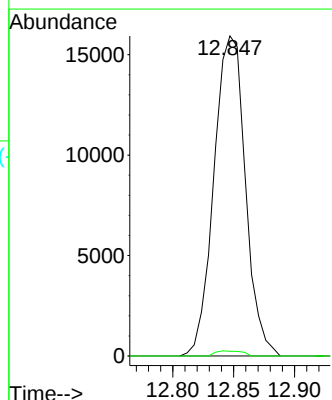
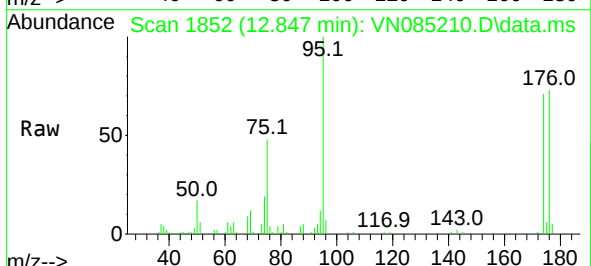
Acq: 16 Dec 2024 11:21

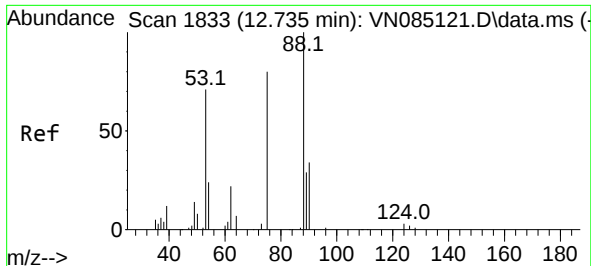
Tgt Ion: 75 Resp: 28686

Ion Ratio Lower Upper

75 100

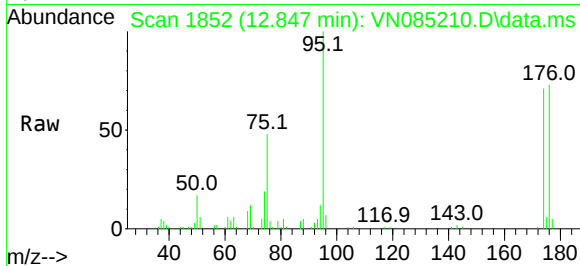
77 1.4 0.0 339.0



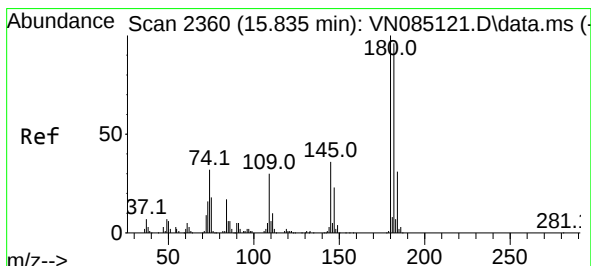
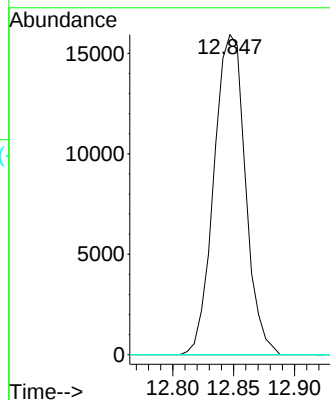
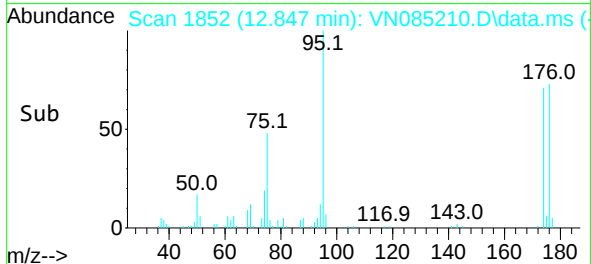


#77
t-1,4-Dichloro-2-butene
Concen: 35.116 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

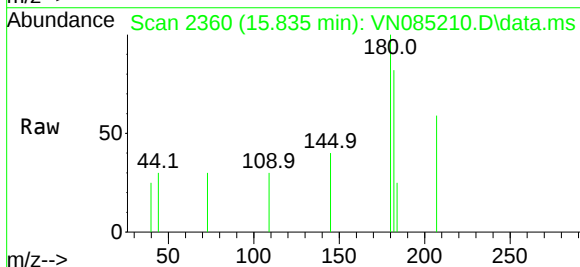
Instrument :
MSVOA_N
ClientSampleId :



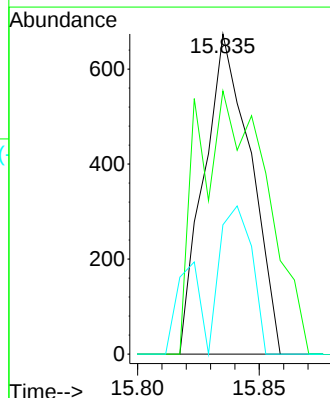
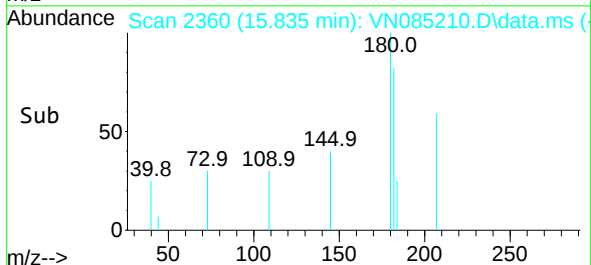
Tgt Ion: 75 Resp: 28686
Ion Ratio Lower Upper
75 100
53 0.0 49.1 147.3#
89 0.0 22.9 68.5#

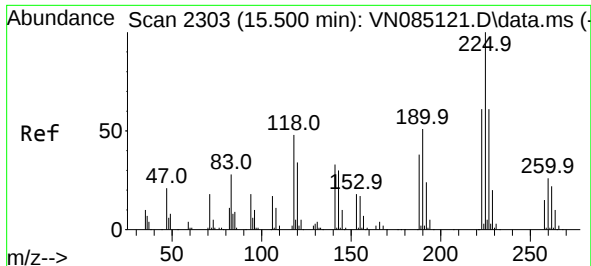


#89
1,2,4-Trichlorobenzene
Concen: 0.563 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21



Tgt Ion: 180 Resp: 894
Ion Ratio Lower Upper
180 100
182 87.6 74.0 111.0
145 32.0 28.6 43.0

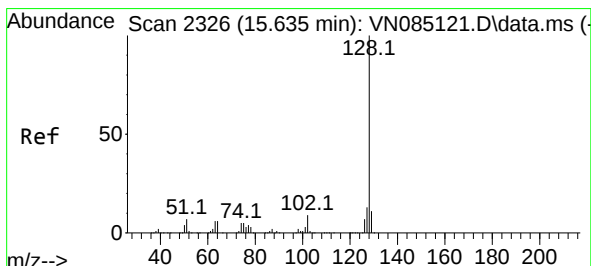
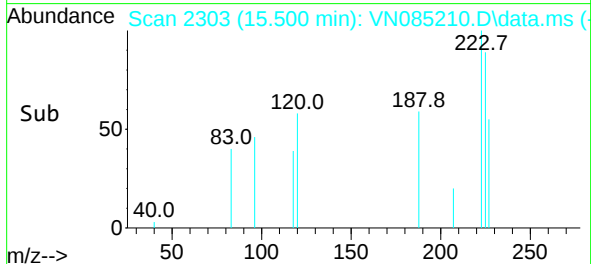
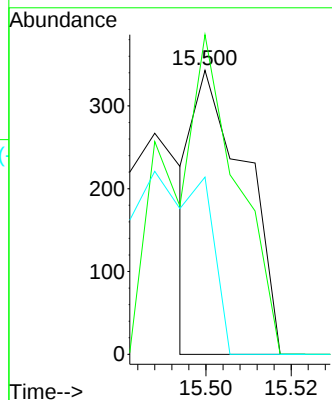
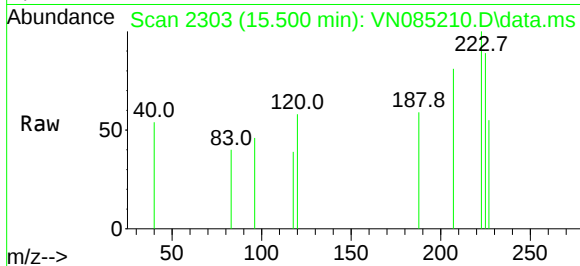




#90
Hexachlorobutadiene
Concen: 0.347 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

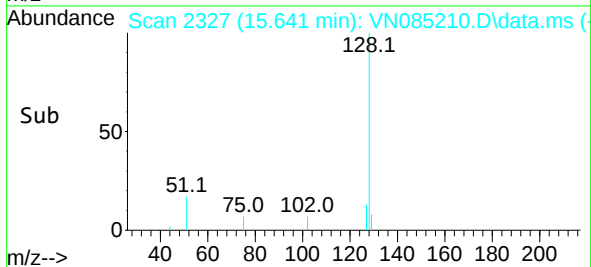
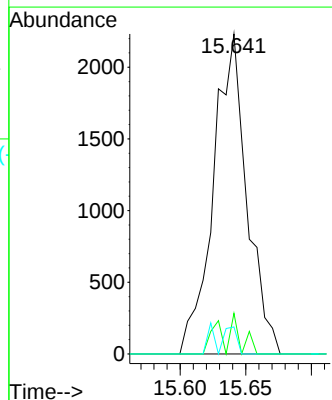
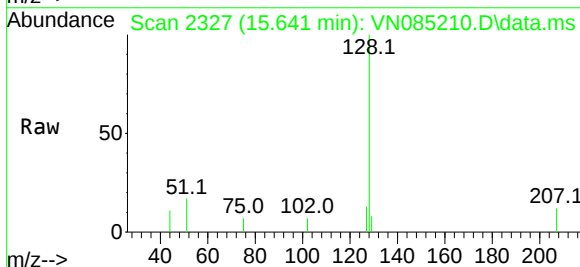
Instrument :
MSVOA_N
ClientSampleId :

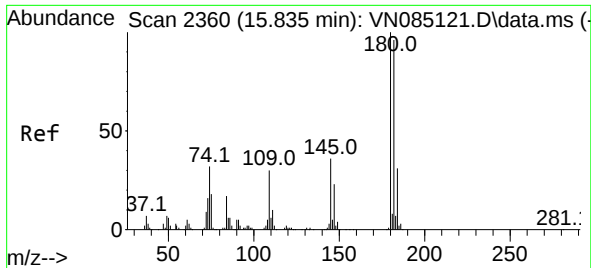
Tgt Ion:225 Resp: 286
Ion Ratio Lower Upper
225 100
223 149.7 0.0 121.8#
227 0.0 0.0 126.8



#91
Naphthalene
Concen: 0.807 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN085210.D
Acq: 16 Dec 2024 11:21

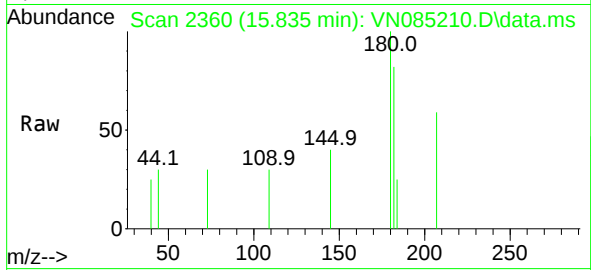
Tgt Ion:128 Resp: 3981
Ion Ratio Lower Upper
128 100
127 2.5 11.0 16.4#
129 3.2 8.7 13.1#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.563 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN085210.D
 Acq: 16 Dec 2024 11:21

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	894
Ion	Ratio	Lower	Upper
180	100		
182	87.6	0.0	185.0
145	32.0	0.0	71.6

