

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083534.D
 Acq On : 28 Aug 2024 14:30
 Operator : JC\MD
 Sample : P3759-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 28 15:37:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 12:23:16 2024
 Response via : Initial Calibration

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

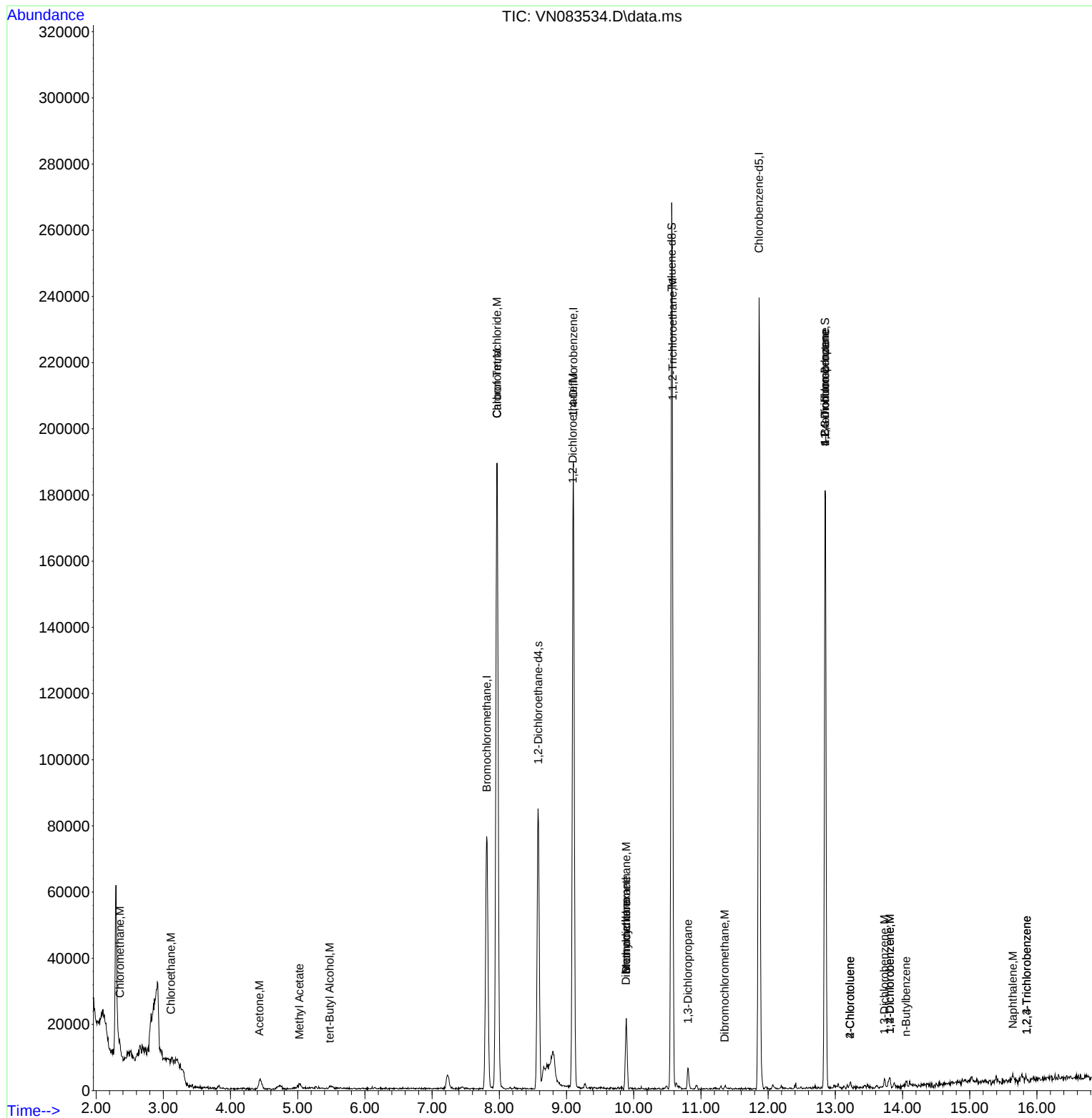
Internal Standards						
1) Bromochloromethane	7.812	128	26514	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	154836	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	131583	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	73589	30.879	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.933%
60) 4-Bromofluorobenzene	12.847	95	65938	28.305	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.367%
63) Toluene-d8	10.565	98	181667	29.906	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.700%
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	1260	0.688	ug/l #	73
6) Chloroethane	3.112	64	471	0.374	ug/l	96
12) Methyl Acetate	5.024	43	1386	0.486	ug/l #	36
15) Acetone	4.430	58	132	0.504	ug/l #	43
23) tert-Butyl Alcohol	5.477	59	387	1.035	ug/l #	100
25) Chloroform	7.965	83	185174	51.832	ug/l	97
33) Carbon Tetrachloride	7.965	117	1149	0.406	ug/l #	82
36) 1,2-Dichloroethane	9.094	62	5973	2.173	ug/l #	72
38) Methylcyclohexane	9.888	83	13502	4.533	ug/l #	19
40) Dibromomethane	9.883	93	430	0.334	ug/l #	5
41) Bromodichloromethane	9.888	83	13502	4.856	ug/l	97
50) 1,1,2-Trichloroethane	10.577	97	5336	3.095	ug/l #	1
52) 1,3-Dichloropropane	10.806	76	957	0.318	ug/l #	42
53) Dibromochloromethane	11.353	129	484	0.240	ug/l	93
72) 1,2,3-Trichloropropane	12.847	75	35669	17.131	ug/l	1
75) 2-Chlorotoluene	13.218	91	1314	0.215	ug/l	69
77) t-1,4-Dichloro-2-butene	12.847	75	35669	39.477	ug/l #	12
78) 4-Chlorotoluene	13.218	91	1314	0.216	ug/l	68
83) 1,3-Dichlorobenzene	13.729	146	1187	0.325	ug/l	81
84) 1,4-Dichlorobenzene	13.812	146	1042	0.284	ug/l	91
85) n-Butylbenzene	14.053	91	1282	0.206	ug/l	81
87) 1,2-Dichlorobenzene	13.812	146	1042	0.290	ug/l	89
89) 1,2,4-Trichlorobenzene	15.847	180	580	0.294	ug/l #	58
91) Naphthalene	15.641	128	2513	0.369	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.847	180	580	0.294	ug/l #	58

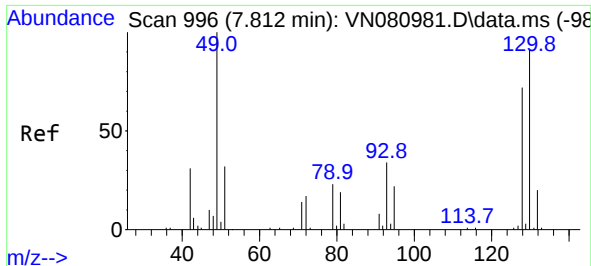
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
Data File : VN083534.D
Acq On : 28 Aug 2024 14:30
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Sample : P3759-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

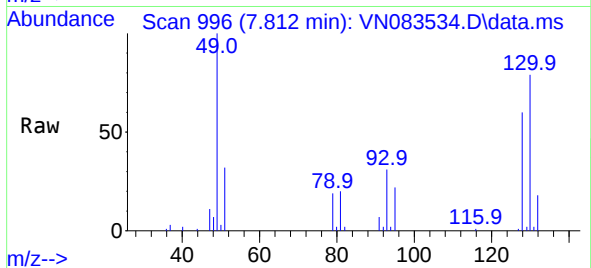
Quant Time: Aug 28 15:37:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 28 12:23:16 2024
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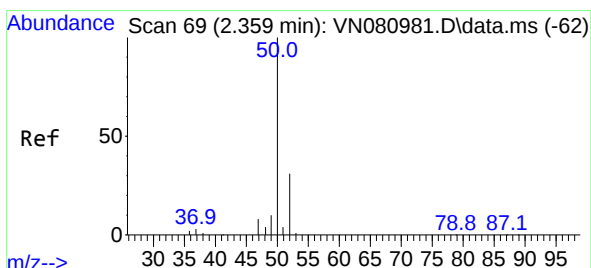
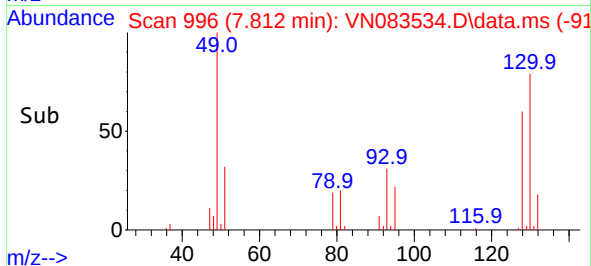
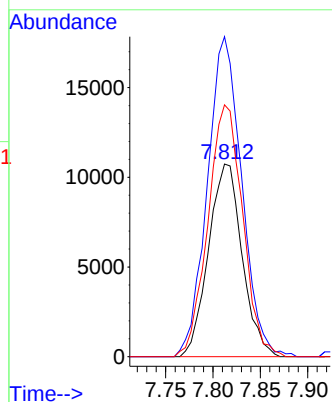


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :

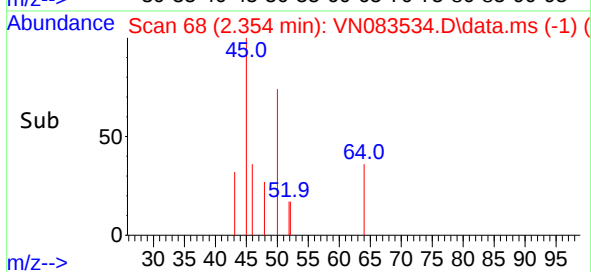
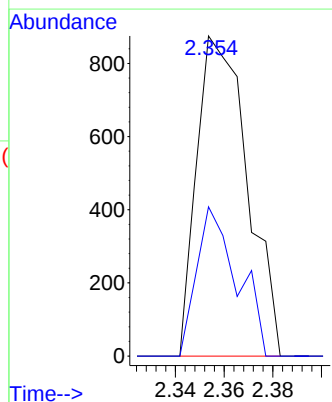
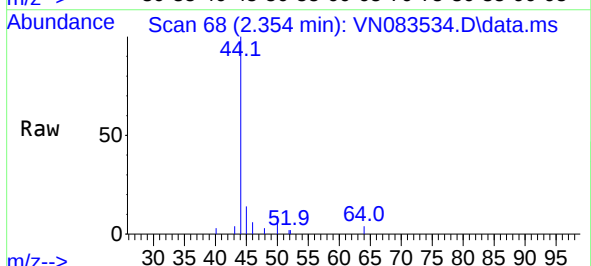


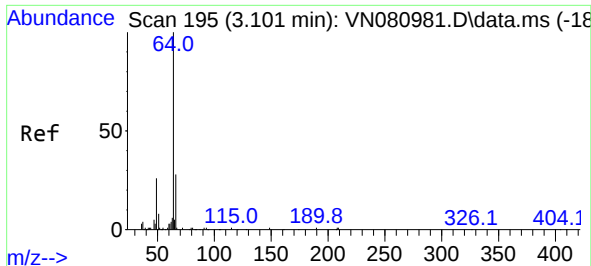
Tgt Ion:128 Resp: 26514
Ion Ratio Lower Upper
128 100
49 169.6 0.0 403.7
130 135.0 0.0 323.3



#3
Chloromethane
Concen: 0.688 ug/l
RT: 2.354 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion: 50 Resp: 1260
Ion Ratio Lower Upper
50 100
52 46.6 25.4 38.0#

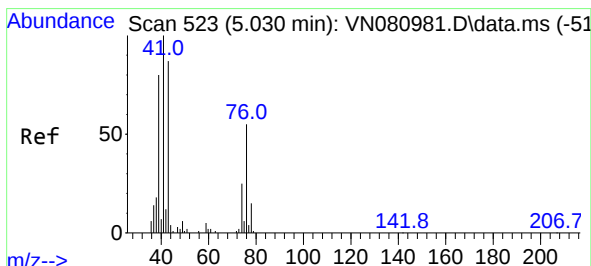
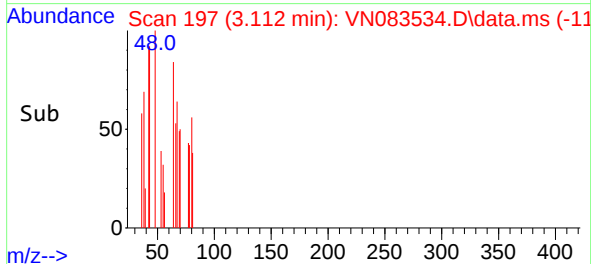
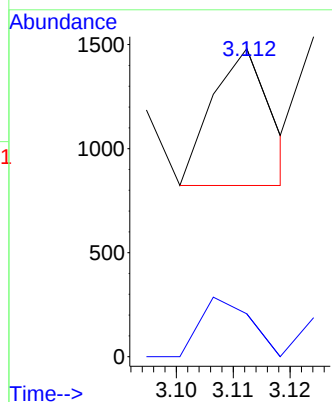
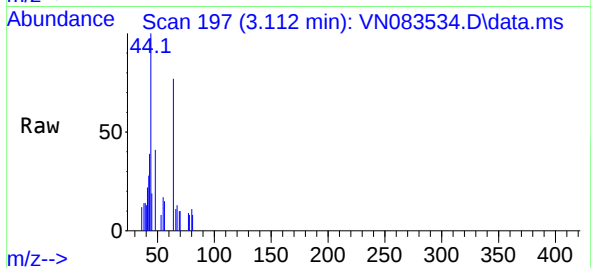




#6
Chloroethane
Concen: 0.374 ug/l
RT: 3.112 min Scan# 197
Delta R.T. 0.012 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

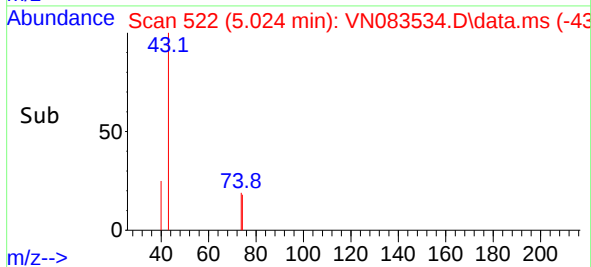
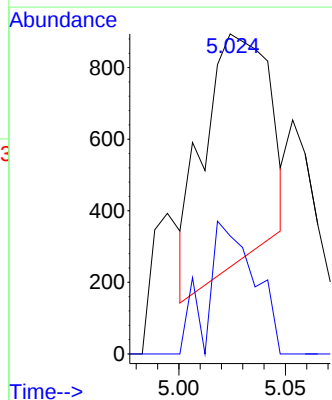
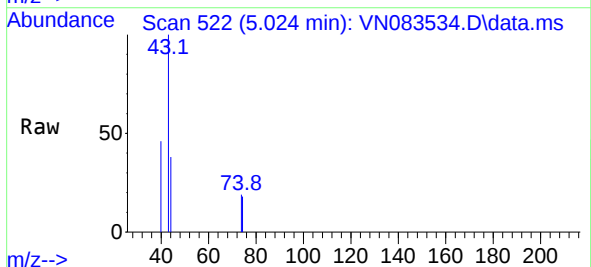
Instrument :
MSVOA_N
ClientSampleId :

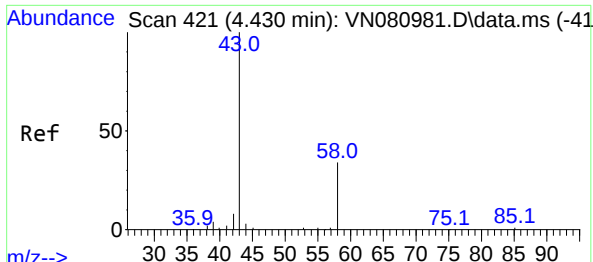
Tgt Ion: 64 Resp: 471
Ion Ratio Lower Upper
64 100
66 31.4 26.7 40.1



#12
Methyl Acetate
Concen: 0.486 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion: 43 Resp: 1386
Ion Ratio Lower Upper
43 100
74 71.3 27.7 41.5#

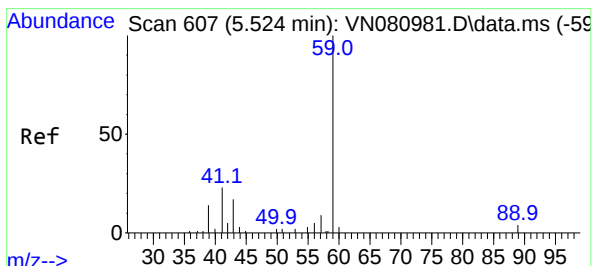
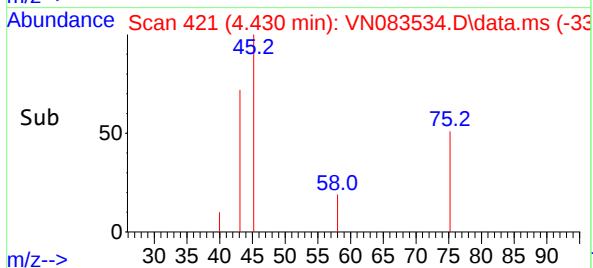
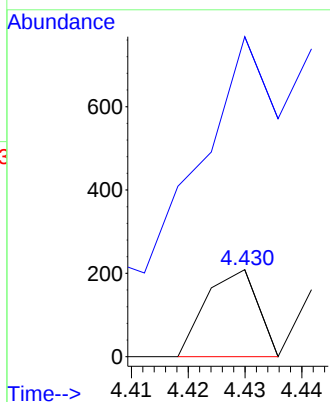
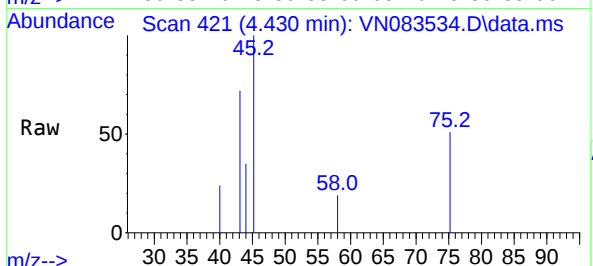




#15
Acetone
Concen: 0.504 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

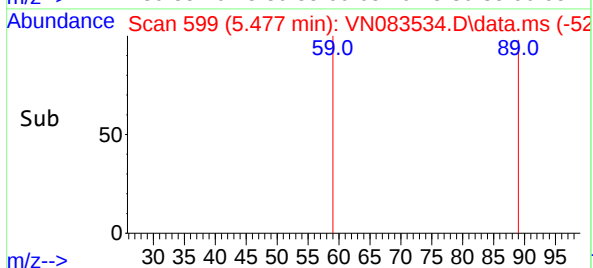
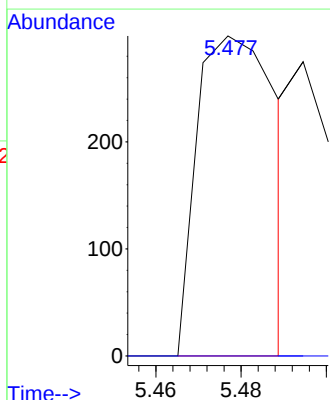
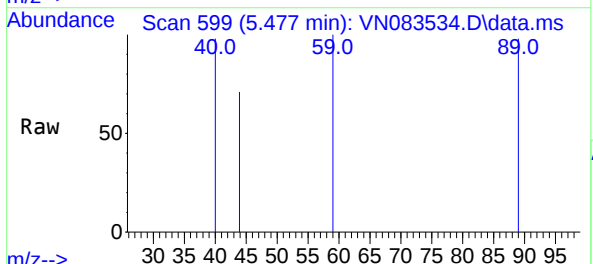
Instrument :
MSVOA_N
ClientSampleId :

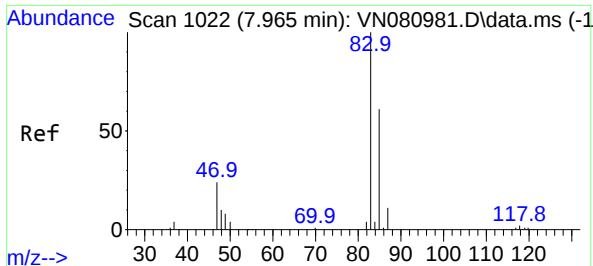
Tgt Ion: 58 Resp: 132
Ion Ratio Lower Upper
58 100
43 171.8 223.1 334.7#



#23
tert-Butyl Alcohol
Concen: 1.035 ug/l
RT: 5.477 min Scan# 599
Delta R.T. -0.047 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion: 59 Resp: 387
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

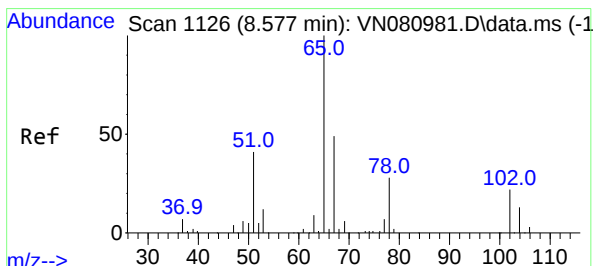
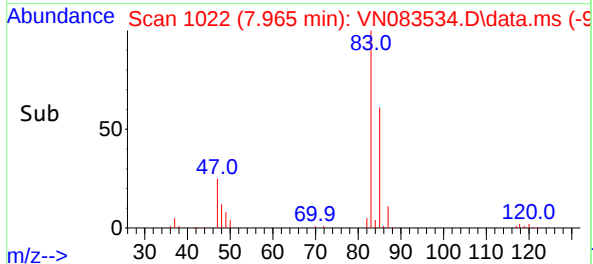
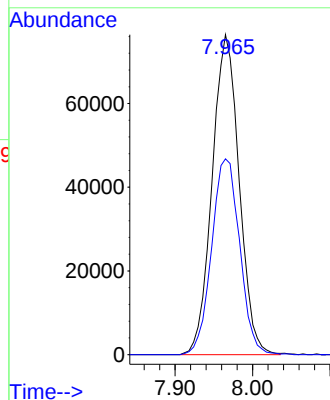
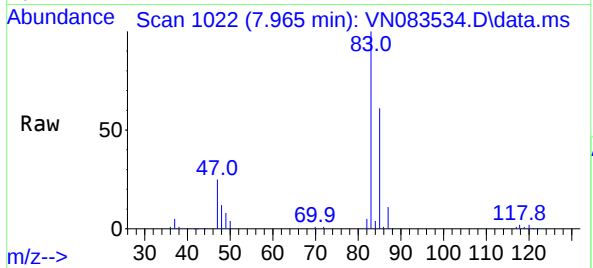




#25
Chloroform
Concen: 51.832 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

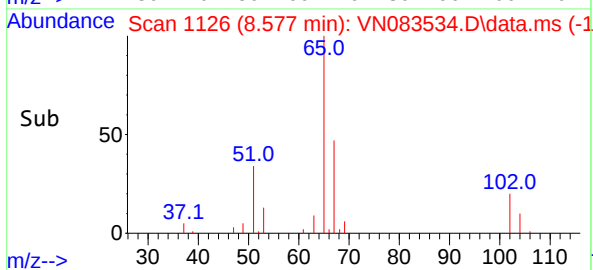
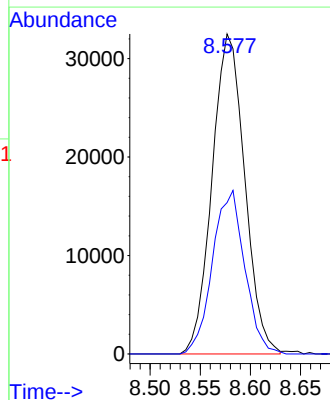
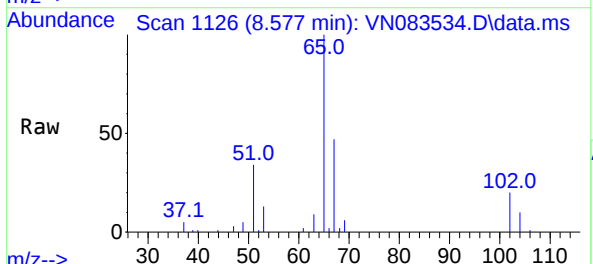
Instrument :
MSVOA_N
ClientSampleId :

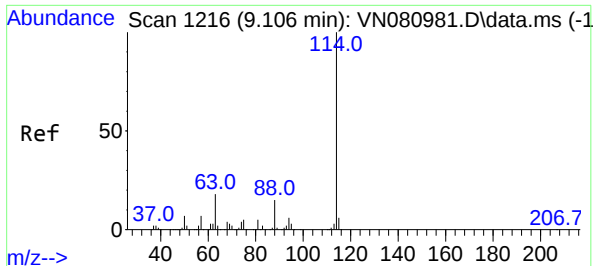
Tgt Ion: 83 Resp: 185174
Ion Ratio Lower Upper
83 100
85 61.2 50.9 76.3



#27
1,2-Dichloroethane-d4
Concen: 30.879 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion: 65 Resp: 73589
Ion Ratio Lower Upper
65 100
67 50.4 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN083534.D

Acq: 28 Aug 2024 14:30

Instrument :

MSVOA_N

ClientSampleId :

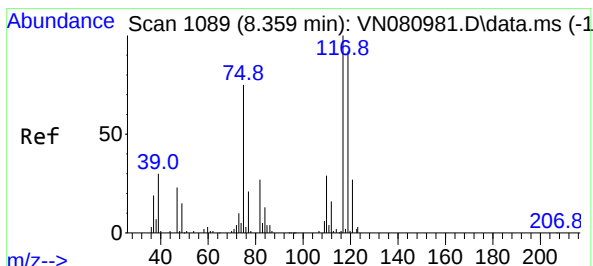
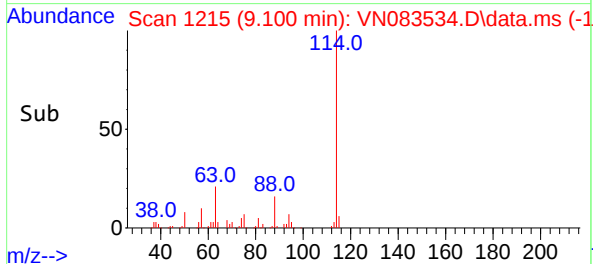
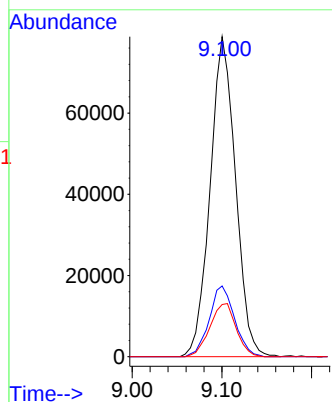
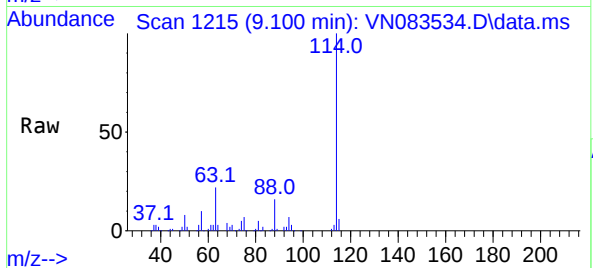
Tgt Ion:114 Resp: 154836

Ion Ratio Lower Upper

114 100

63 22.1 15.9 23.9

88 17.2 12.7 19.1



#33

Carbon Tetrachloride

Concen: 0.406 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.394 min

Lab File: VN083534.D

Acq: 28 Aug 2024 14:30

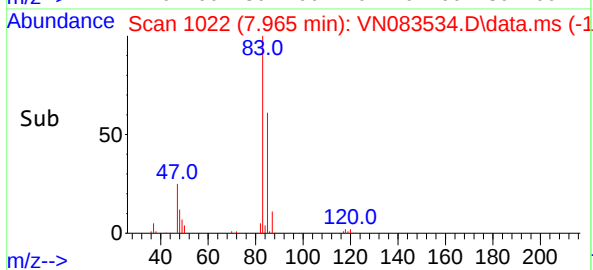
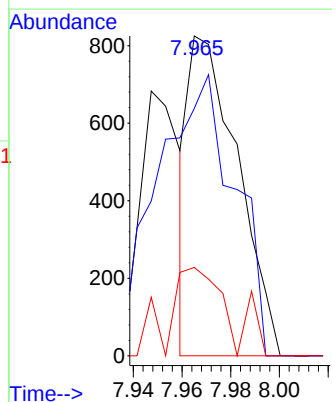
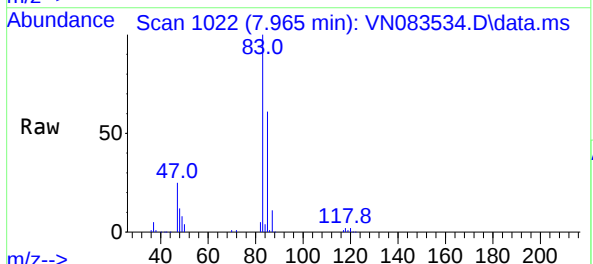
Tgt Ion:117 Resp: 1149

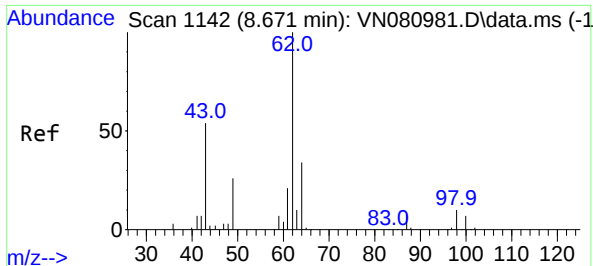
Ion Ratio Lower Upper

117 100

119 77.3 77.7 116.5#

121 27.6 27.0 40.6

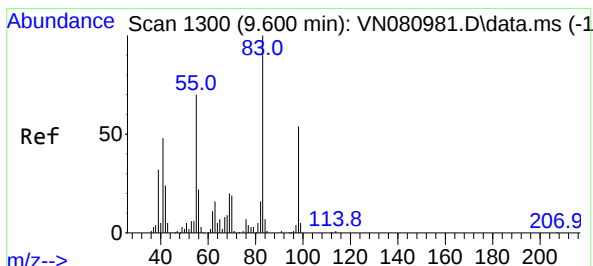
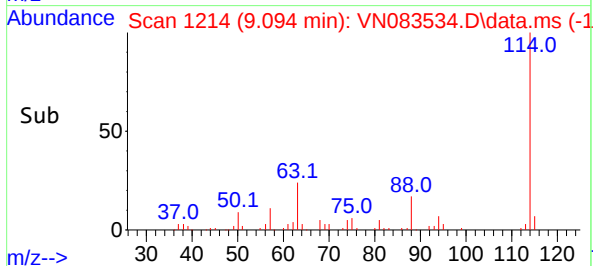
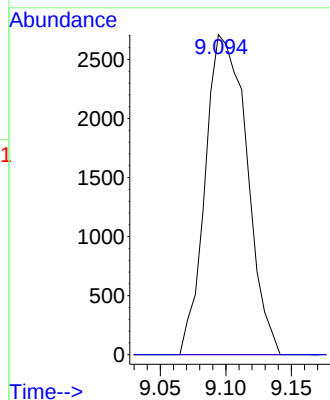
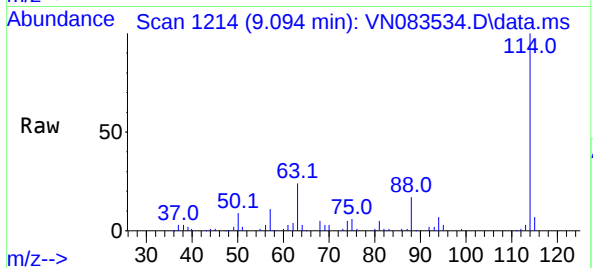




#36
1,2-Dichloroethane
Concen: 2.173 ug/l
RT: 9.094 min Scan# 1142
Delta R.T. 0.424 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

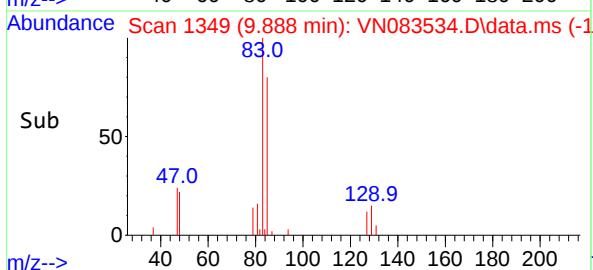
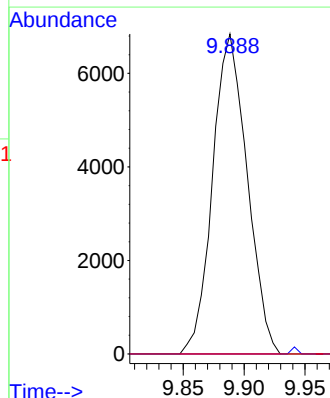
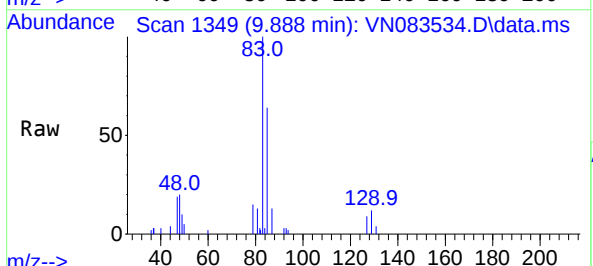
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MSVOA_N
ClientSampleId :

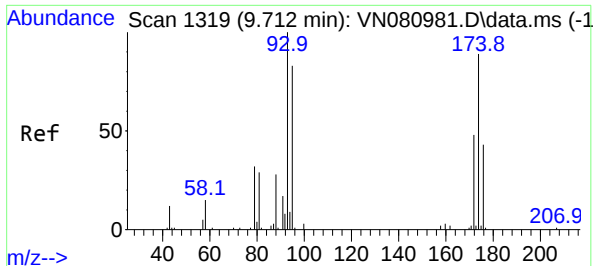
Tgt Ion: 62 Resp: 5973
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



#38
Methylcyclohexane
Concen: 4.533 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.288 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

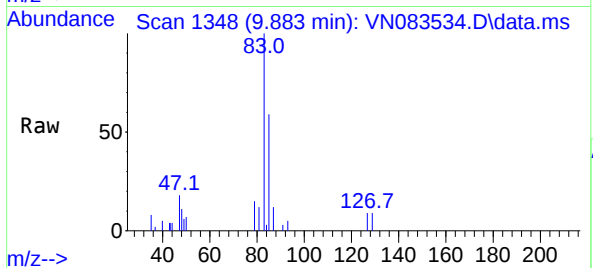
Tgt Ion: 83 Resp: 13502
Ion Ratio Lower Upper
83 100
55 0.0 36.6 109.9#
98 0.0 23.8 71.5#





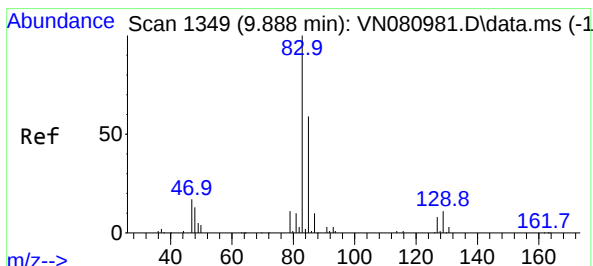
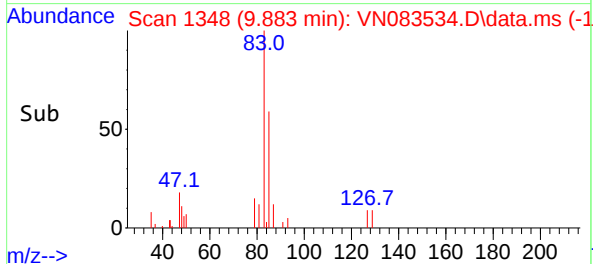
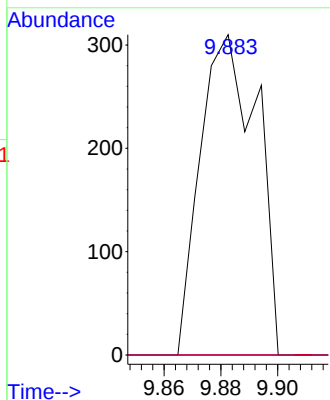
#40
Dibromomethane
Concen: 0.334 ug/l
RT: 9.883 min Scan# 1319
Delta R.T. 0.171 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 93 Resp: 430

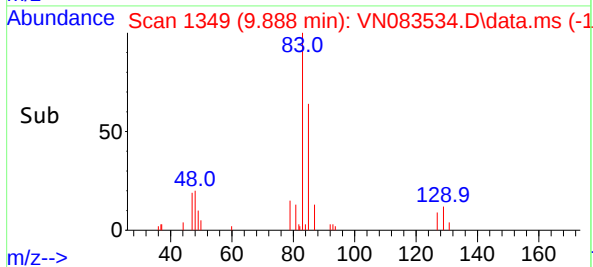
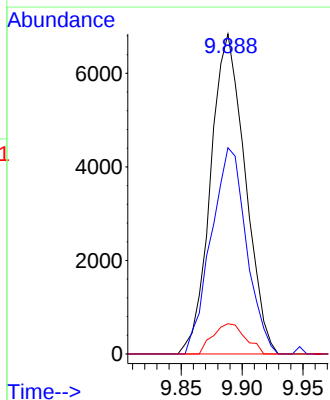
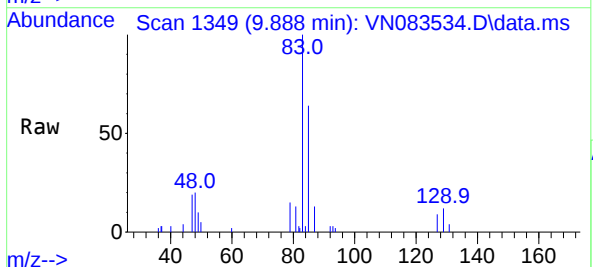
Ion	Ratio	Lower	Upper
93	100		
95	0.0	0.0	164.6
174	0.0	0.0	193.2

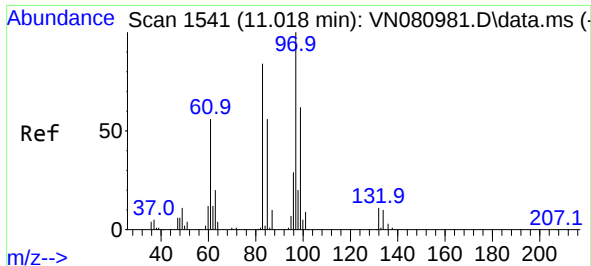


#41
Bromodichloromethane
Concen: 4.856 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion: 83 Resp: 13502

Ion	Ratio	Lower	Upper
83	100		
85	64.5	49.4	74.2
127	9.5	7.3	10.9





#50

1,1,2-Trichloroethane

Concen: 3.095 ug/l

RT: 10.577 min Scan# 14

Delta R.T. -0.441 min

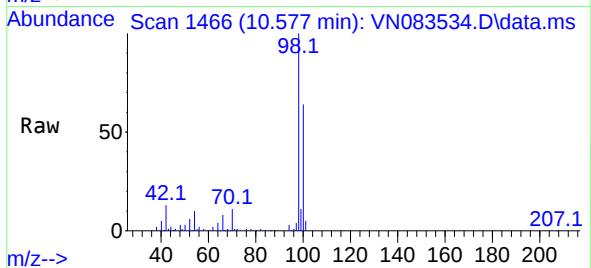
Lab File: VN083534.D

Acq: 28 Aug 2024 14:30

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 5336

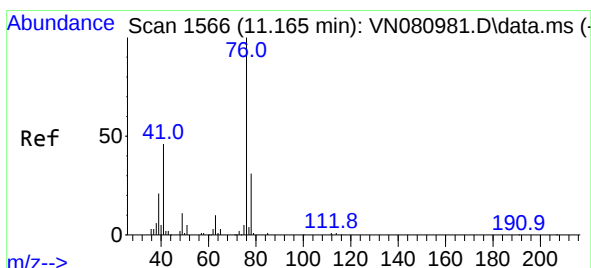
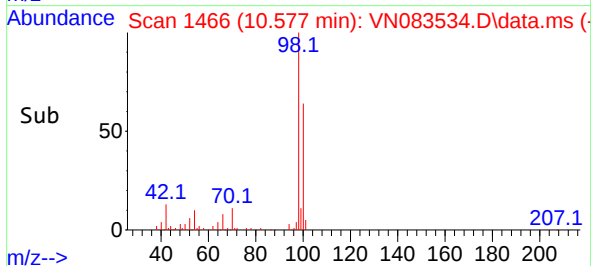
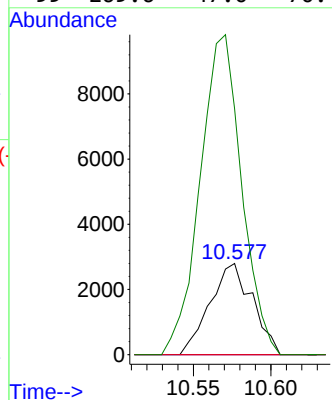
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 0.0 41.8 62.6#

99 269.6 47.0 70.4#



#52

1,3-Dichloropropane

Concen: 0.318 ug/l

RT: 10.806 min Scan# 1505

Delta R.T. -0.359 min

Lab File: VN083534.D

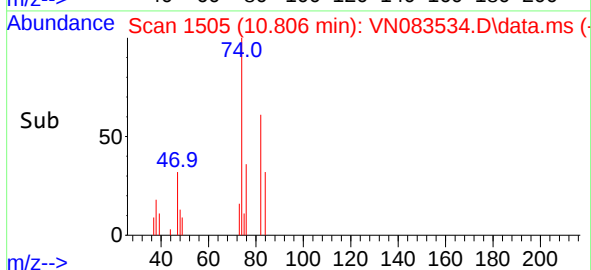
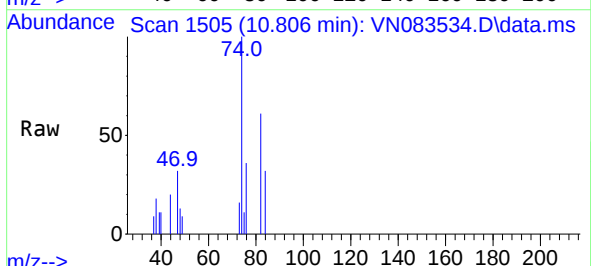
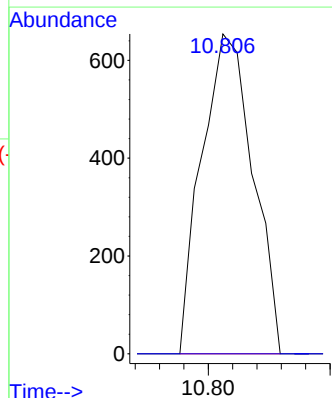
Acq: 28 Aug 2024 14:30

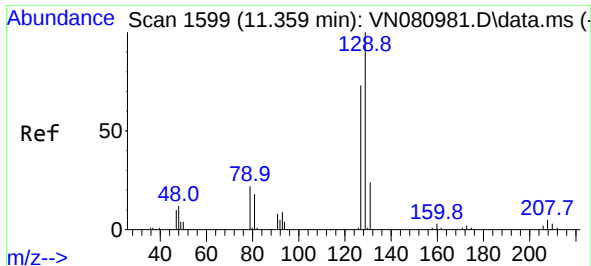
Tgt Ion: 76 Resp: 957

Ion Ratio Lower Upper

76 100

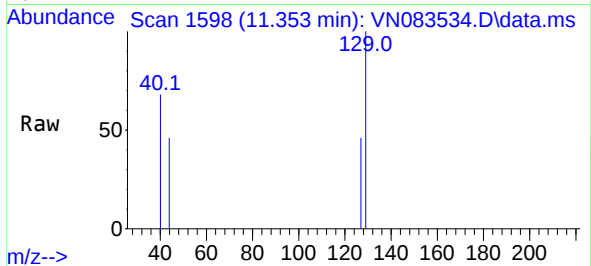
78 0.0 0.0 65.8



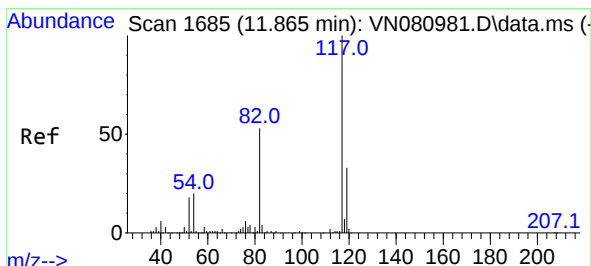
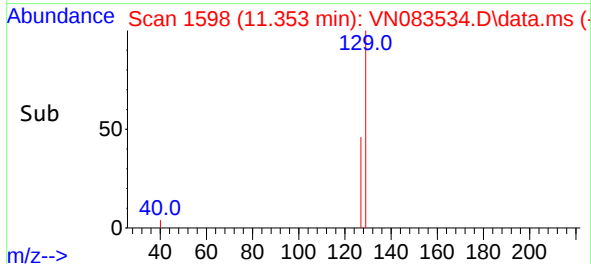
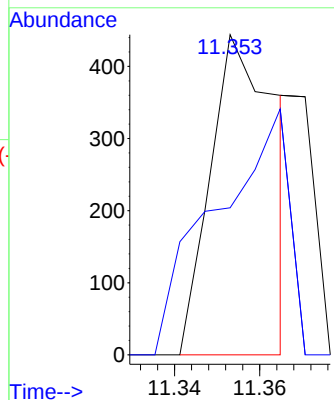


#53
Dibromochloromethane
Concen: 0.240 ug/l
RT: 11.353 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :

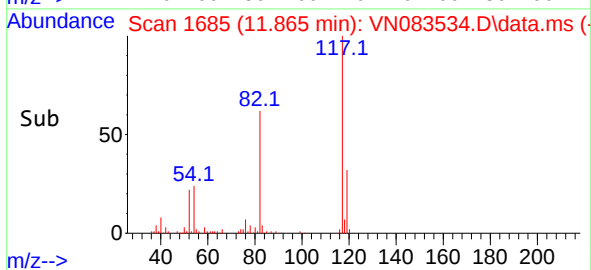
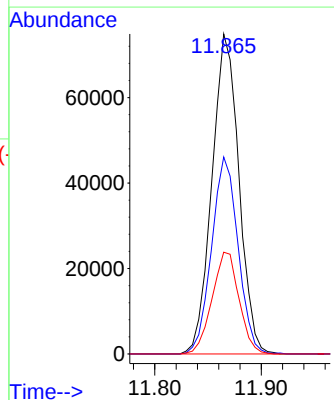
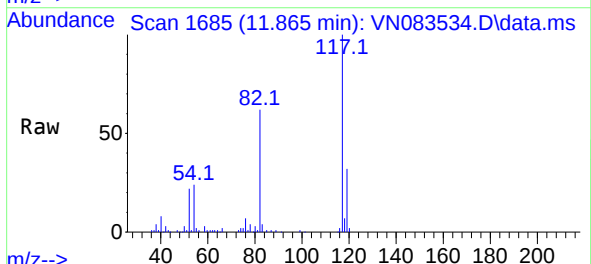


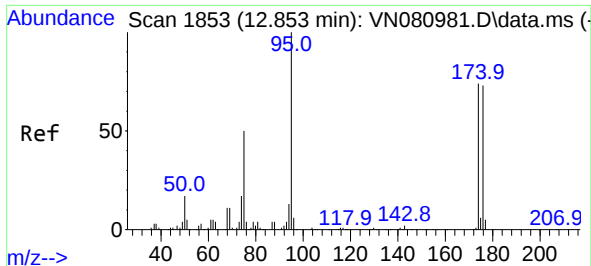
Tgt Ion:129 Resp: 484
Ion Ratio Lower Upper
129 100
127 84.5 39.4 118.1



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion:117 Resp: 131583
Ion Ratio Lower Upper
117 100
82 60.3 46.6 69.8
119 31.8 25.4 38.2

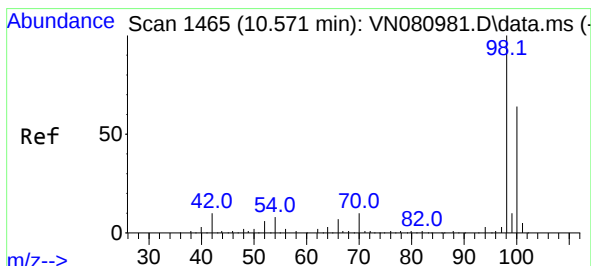
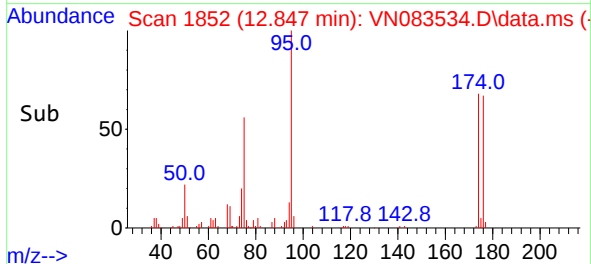
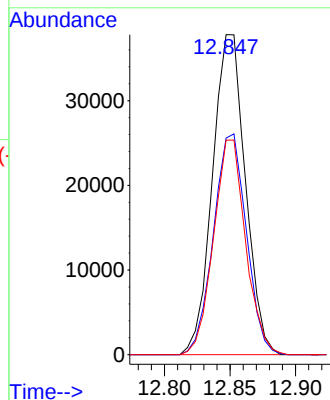
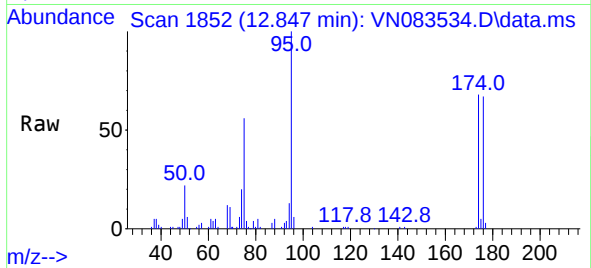




#60
4-Bromofluorobenzene
Concen: 28.305 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

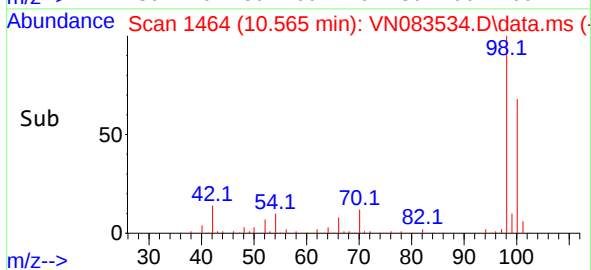
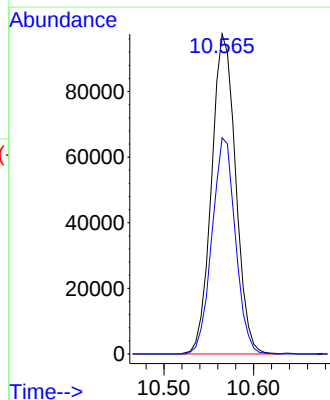
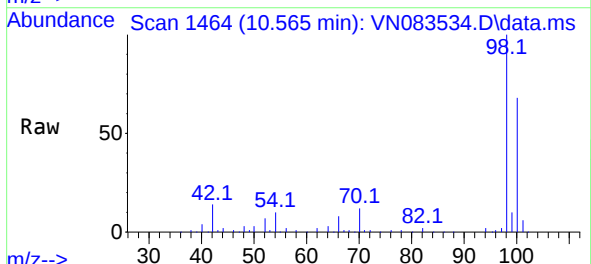
Instrument :
MSVOA_N
ClientSampleId :

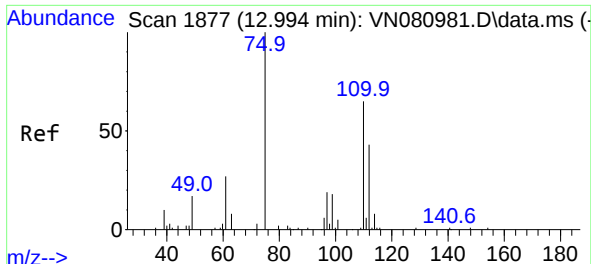
Tgt Ion: 95 Resp: 65938
Ion Ratio Lower Upper
95 100
174 69.1 60.5 90.7
176 65.5 57.8 86.6



#63
Toluene-d8
Concen: 29.906 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion: 98 Resp: 181667
Ion Ratio Lower Upper
98 100
100 65.7 52.7 79.1

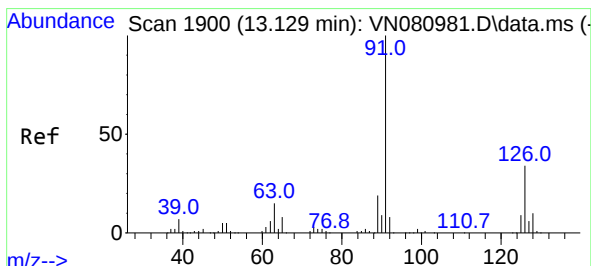
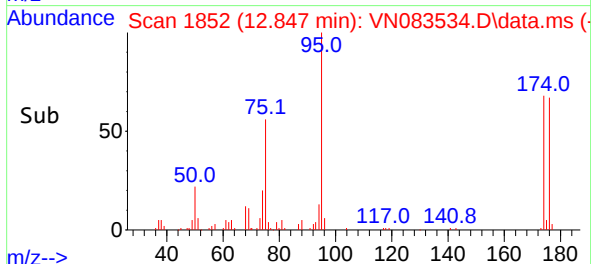
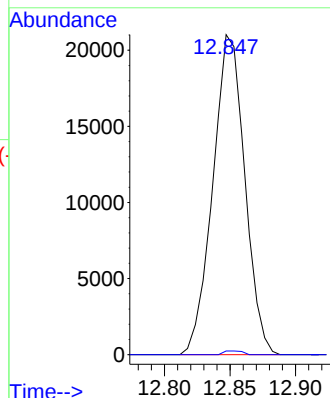
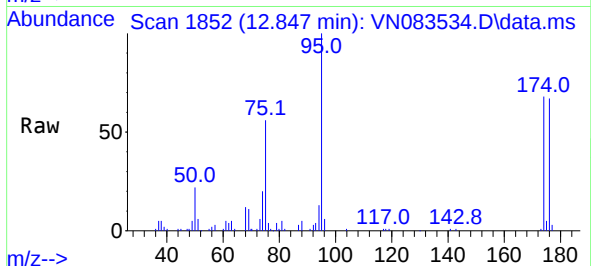




#72
1,2,3-Trichloropropane
Concen: 17.131 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.147 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

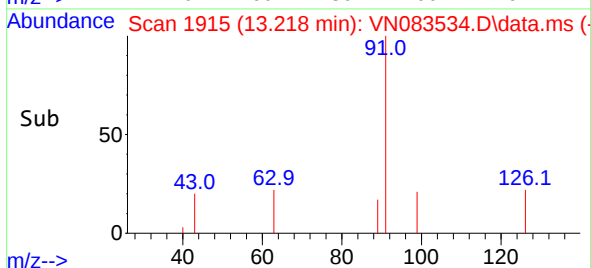
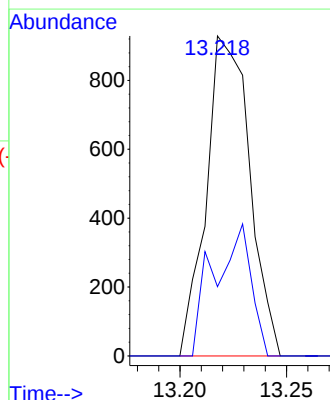
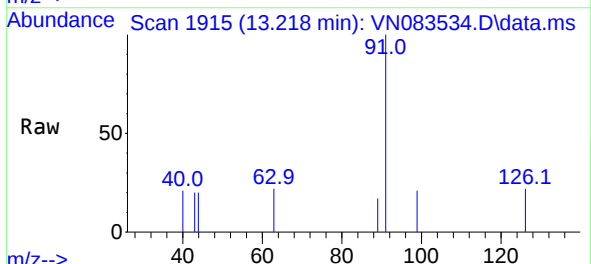
Instrument :
MSVOA_N
ClientSampleId :

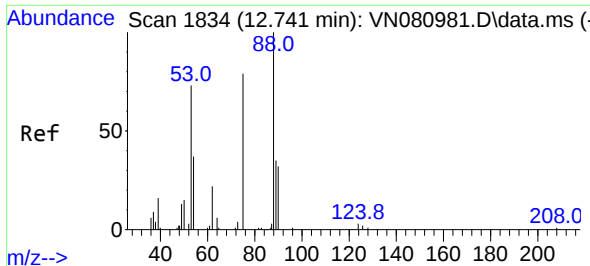
Tgt Ion: 75 Resp: 35669
Ion Ratio Lower Upper
75 100
77 0.7 0.0 367.6



#75
2-Chlorotoluene
Concen: 0.215 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.088 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

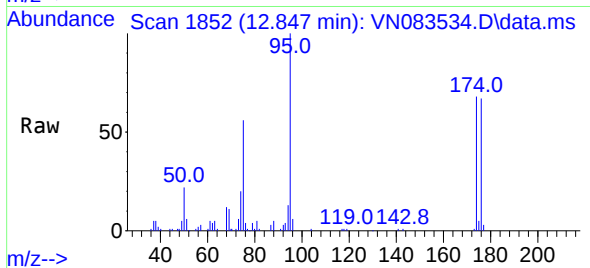
Tgt Ion: 91 Resp: 1314
Ion Ratio Lower Upper
91 100
126 13.5 0.0 61.2



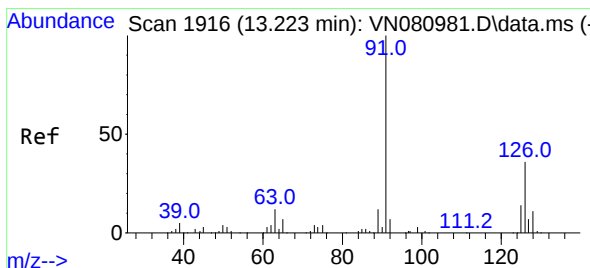
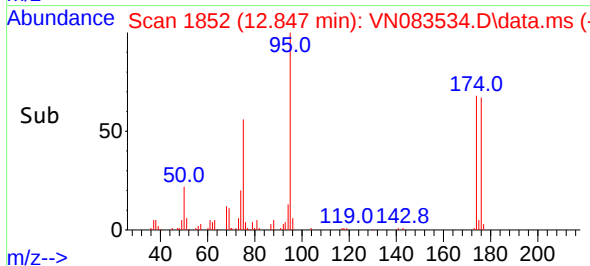
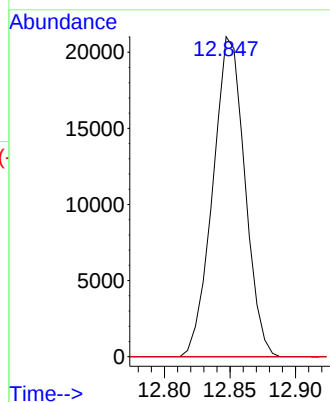


#77
t-1,4-Dichloro-2-butene
Concen: 39.477 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :

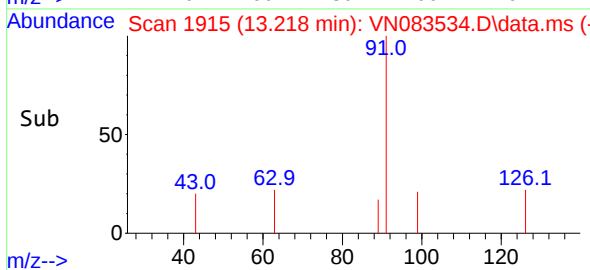
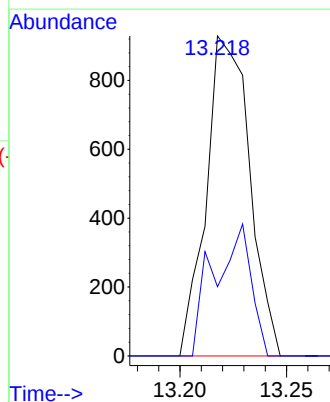
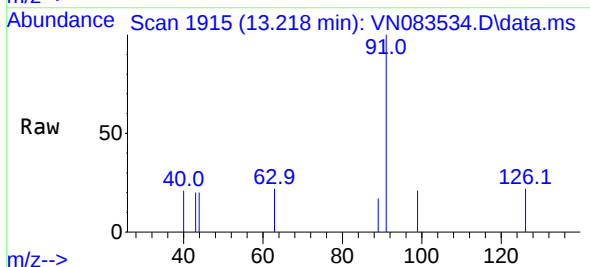


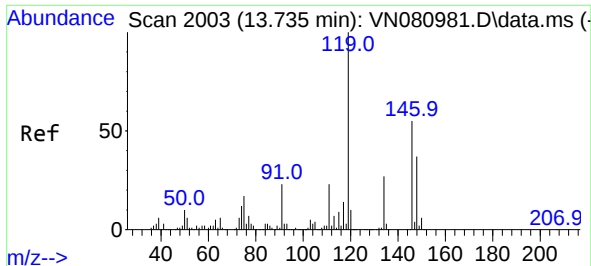
Tgt Ion: 75 Resp: 35669
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#78
4-Chlorotoluene
Concen: 0.216 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

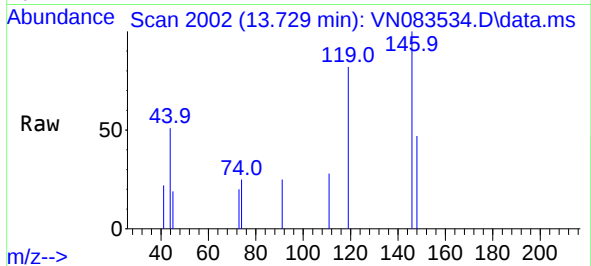
Tgt Ion: 91 Resp: 1314
Ion Ratio Lower Upper
91 100
126 13.5 0.0 62.8



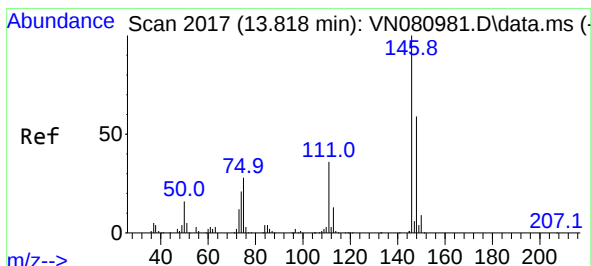
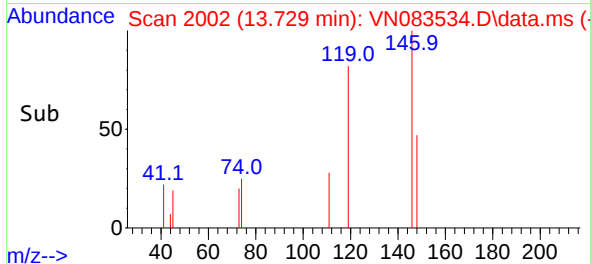
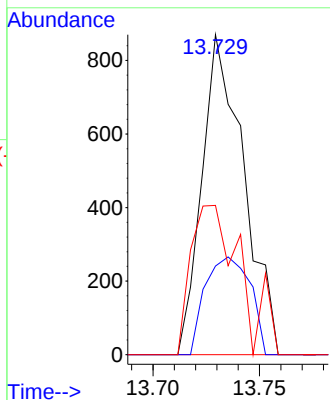


#83
1,3-Dichlorobenzene
Concen: 0.325 ug/l
RT: 13.729 min Scan# 2003
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :

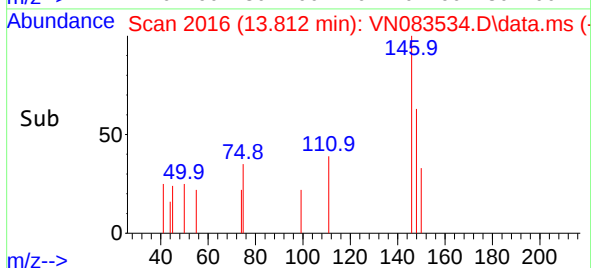
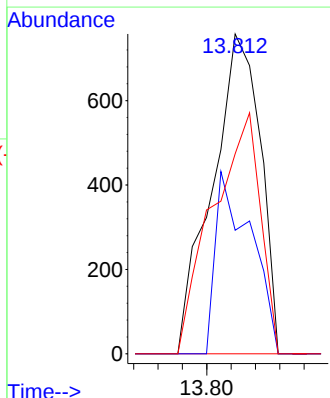
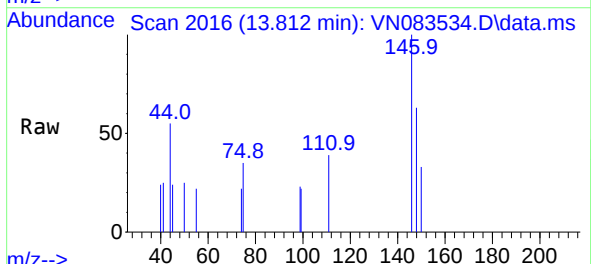


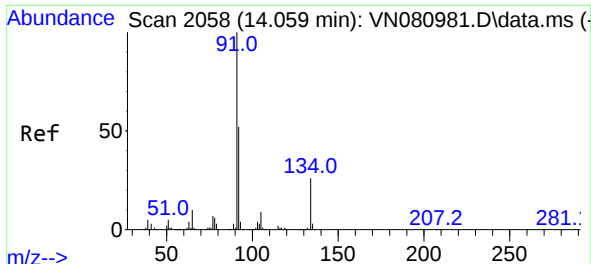
Tgt Ion:146 Resp: 1187
Ion Ratio Lower Upper
146 100
111 32.9 22.4 67.0
148 49.5 32.1 96.5



#84
1,4-Dichlorobenzene
Concen: 0.284 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

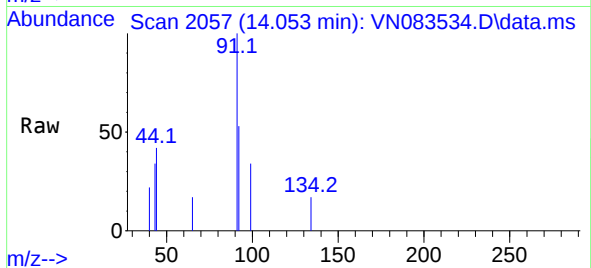
Tgt Ion:146 Resp: 1042
Ion Ratio Lower Upper
146 100
111 41.8 21.3 63.9
148 74.7 31.9 95.5





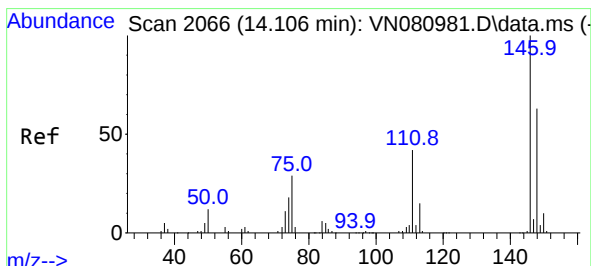
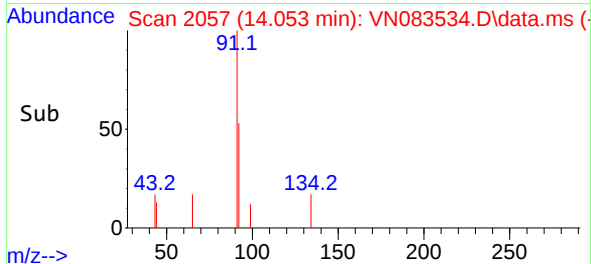
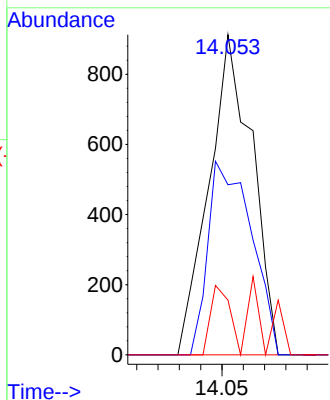
#85
n-Butylbenzene
Concen: 0.206 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 91 Resp: 1282

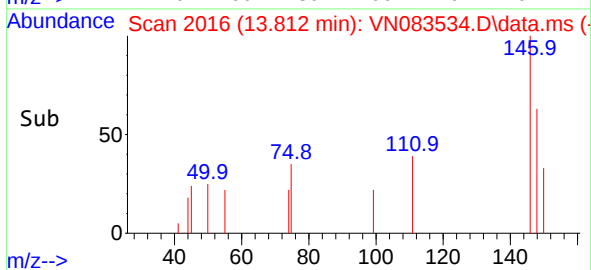
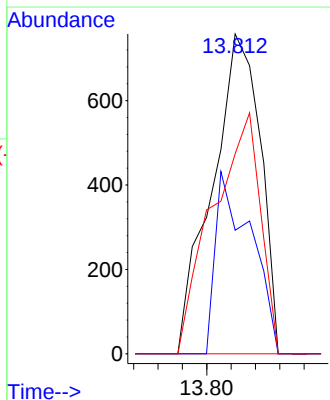
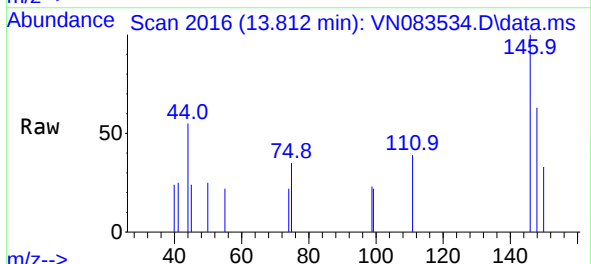
Ion	Ratio	Lower	Upper
91	100		
92	61.1	0.0	105.0
134	9.8	0.0	51.8

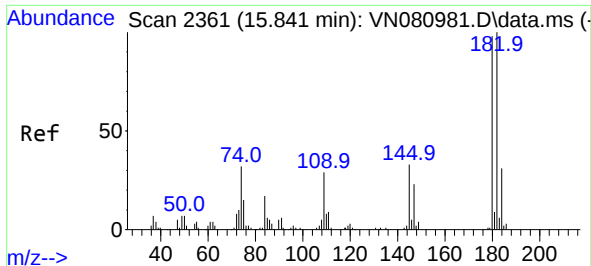


#87
1,2-Dichlorobenzene
Concen: 0.290 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.294 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Tgt Ion: 146 Resp: 1042

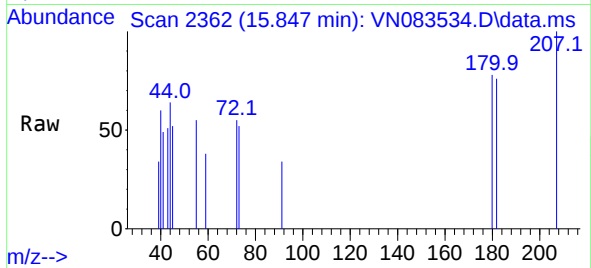
Ion	Ratio	Lower	Upper
146	100		
111	41.8	22.6	67.8
148	74.7	31.3	93.8



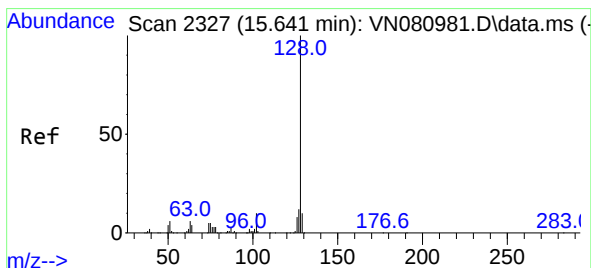
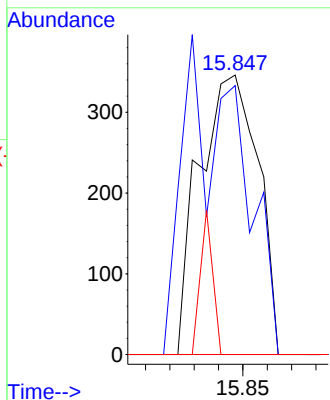
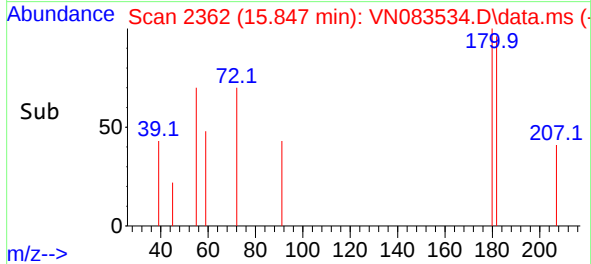


#89
1,2,4-Trichlorobenzene
Concen: 0.294 ug/l
RT: 15.847 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

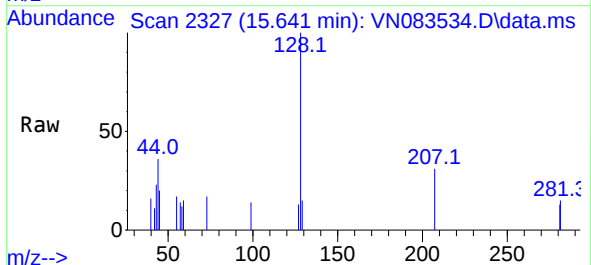
Instrument :
MSVOA_N
ClientSampleId :



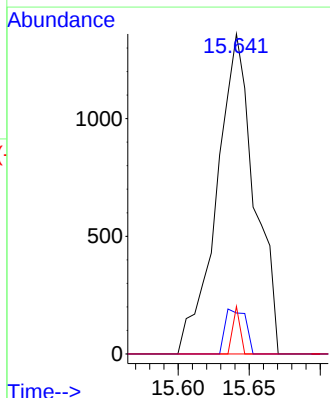
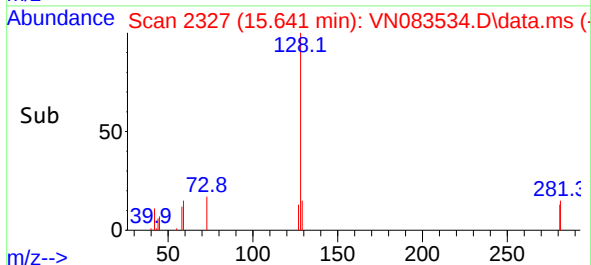
Tgt Ion:180 Resp: 580
Ion Ratio Lower Upper
180 100
182 61.0 76.4 114.6#
145 0.0 28.4 42.6#

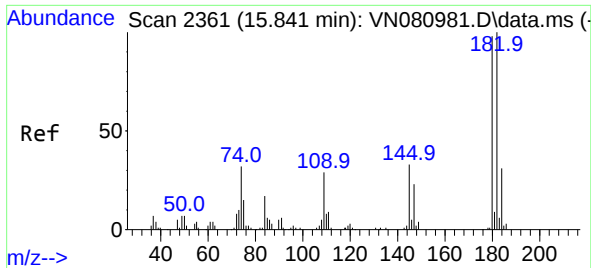


#91
Naphthalene
Concen: 0.369 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30



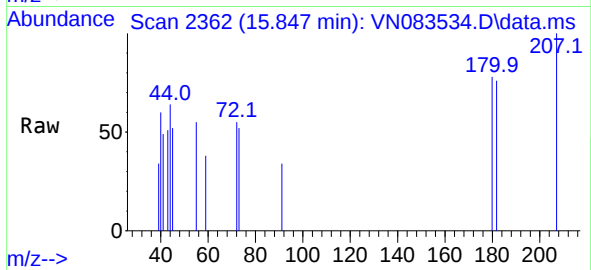
Tgt Ion:128 Resp: 2513
Ion Ratio Lower Upper
128 100
127 7.6 10.6 16.0#
129 0.0 8.6 13.0#





#92
1,2,3-Trichlorobenzene
Concen: 0.294 ug/l
RT: 15.847 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083534.D
Acq: 28 Aug 2024 14:30

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	180	Resp:	580
Ion	Ratio	Lower	Upper
180	100		
182	61.0	0.0	191.0
145	0.0	0.0	71.0

