

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041024\
 Data File : VN081690.D
 Acq On : 10 Apr 2024 19:17
 Operator : JC\MD
 Sample : P2023-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 11 09:28:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

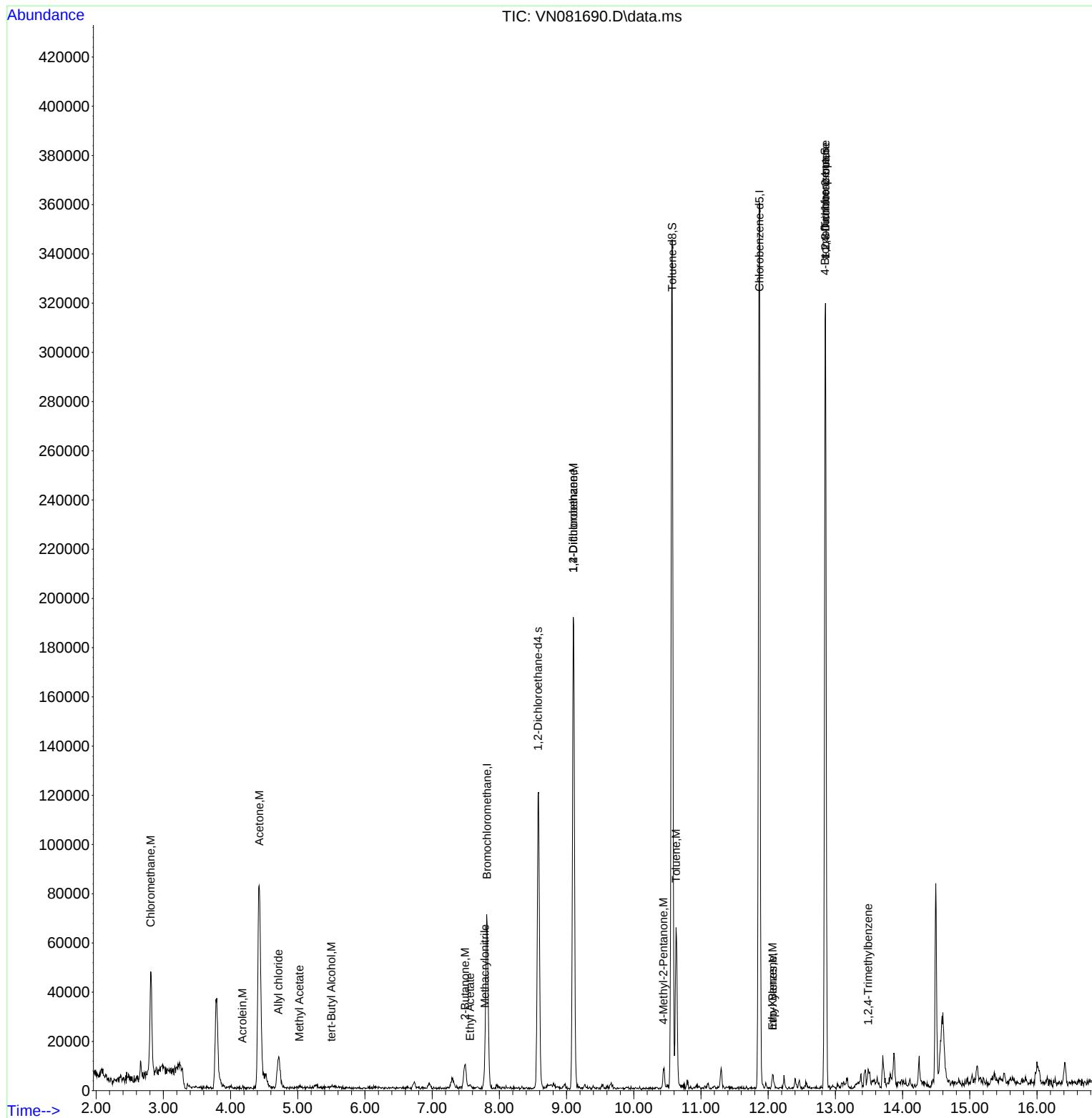
Internal Standards						
1) Bromochloromethane	7.818	128	25695	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	167444	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	215397	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	98164	31.098	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.667%
60) 4-Bromofluorobenzene	12.847	95	113111	26.710	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.033%
63) Toluene-d8	10.570	98	243666	28.202	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.000%
Target Compounds						
					Qvalue	
3) Chloromethane	2.812	50	806	0.259	ug/l	89
12) Methyl Acetate	5.024	43	917	0.302	ug/l #	40
13) Acrolein	4.177	56	331	0.827	ug/l	92
15) Acetone	4.430	58	50996	153.311	ug/l	95
17) Allyl chloride	4.712	41	2580	0.645	ug/l	73
23) tert-Butyl Alcohol	5.500	59	266	0.495	ug/l #	100
30) 2-Butanone	7.488	43	15180	9.029	ug/l #	55
35) Methacrylonitrile	7.782	41	575	0.302	ug/l #	39
36) 1,2-Dichloroethane	9.100	62	5732	1.232	ug/l #	72
43) Ethyl Acetate	7.565	43	2124	0.573	ug/l #	80
58) 4-Methyl-2-Pentanone	10.441	43	5939	1.603	ug/l #	61
62) Toluene	10.629	91	50836	3.244	ug/l	97
66) Ethyl Benzene	12.065	91	3557	0.213	ug/l	95
67) m/p-Xylenes	12.070	106	1851	0.280	ug/l	90
72) 1,2,3-Trichloropropane	12.853	75	58014	14.841	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	58014	35.838	ug/l #	12
80) 1,2,4-Trimethylbenzene	13.488	105	4726	0.345	ug/l	53

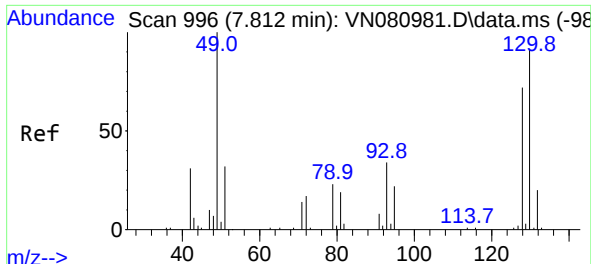
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :

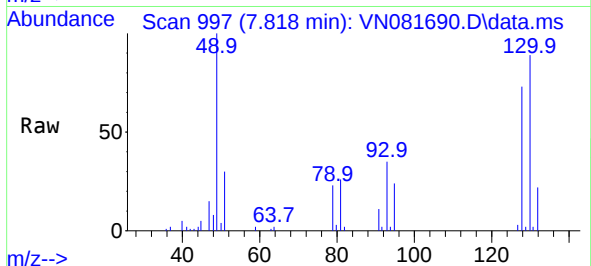
Quant Time: Apr 11 09:28:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 11 09:25:01 2024
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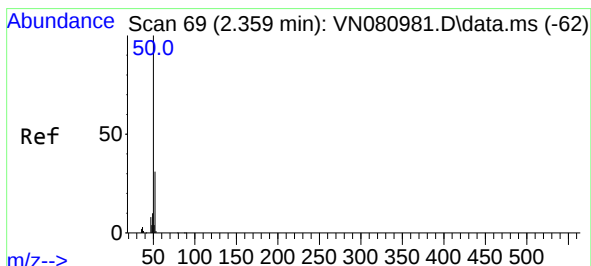
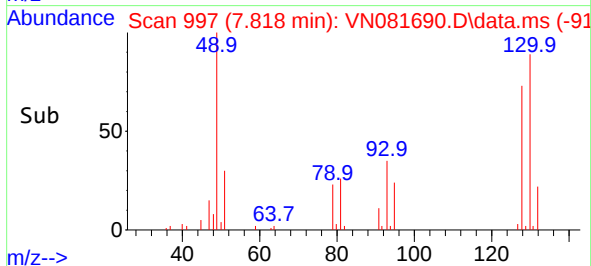
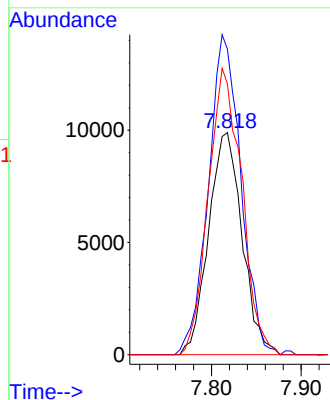


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Instrument :
MSVOA_N
ClientSampleId :

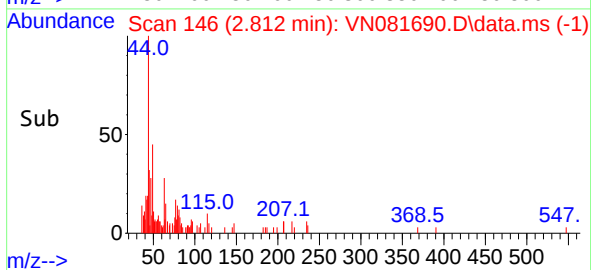
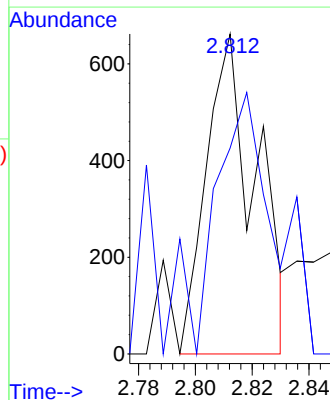
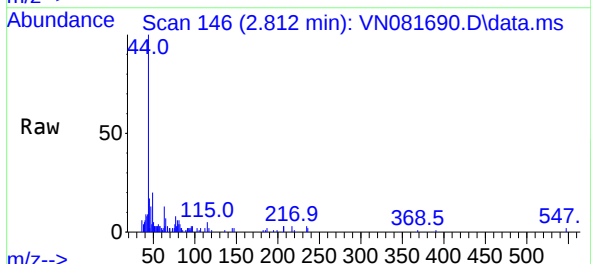


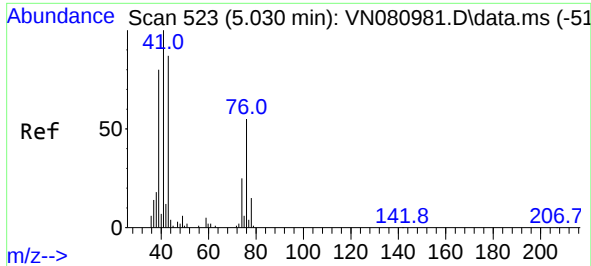
Tgt Ion:128 Resp: 25695
Ion Ratio Lower Upper
128 100
49 139.6 0.0 403.7
130 128.7 0.0 323.3



#3
Chloromethane
Concen: 0.259 ug/l
RT: 2.812 min Scan# 146
Delta R.T. 0.447 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Tgt Ion: 50 Resp: 806
Ion Ratio Lower Upper
50 100
52 37.6 25.4 38.0





#12

Methyl Acetate

Concen: 0.302 ug/l

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

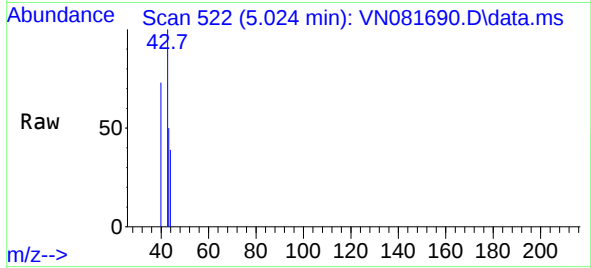
Lab File: VN081690.D

Acq: 10 Apr 2024 19:17

Instrument :

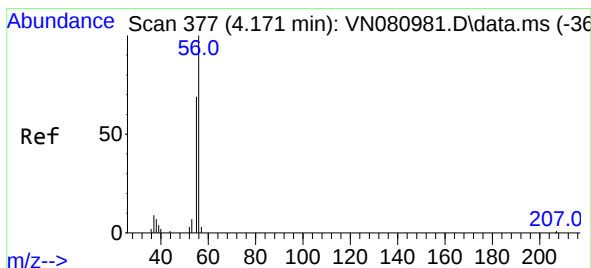
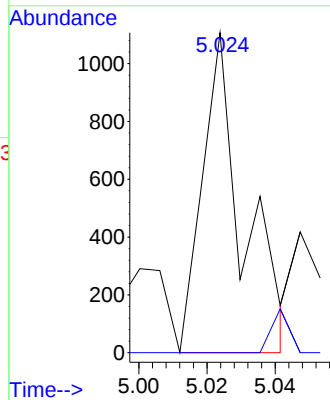
MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 917

Ion	Ratio	Lower	Upper
43	100		
74	0.0	27.7	41.5#



#13

Acrolein

Concen: 0.827 ug/l

RT: 4.177 min Scan# 378

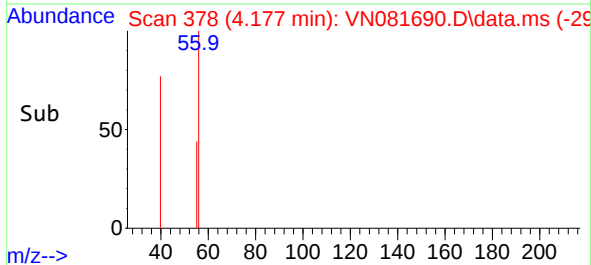
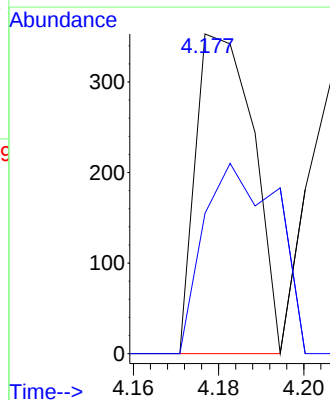
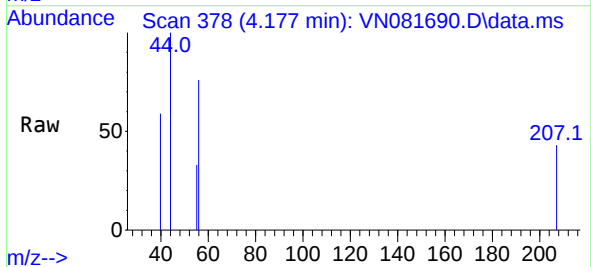
Delta R.T. -0.006 min

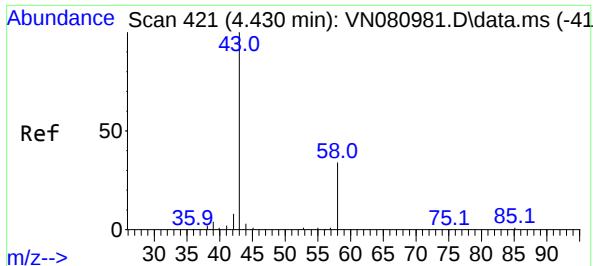
Lab File: VN081690.D

Acq: 10 Apr 2024 19:17

Tgt Ion: 56 Resp: 331

Ion	Ratio	Lower	Upper
56	100		
55	75.8	55.5	83.3

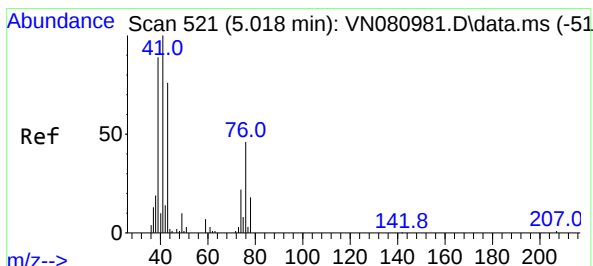
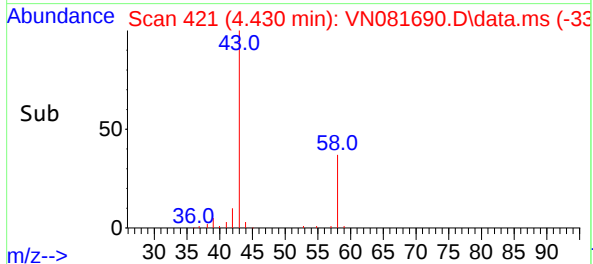
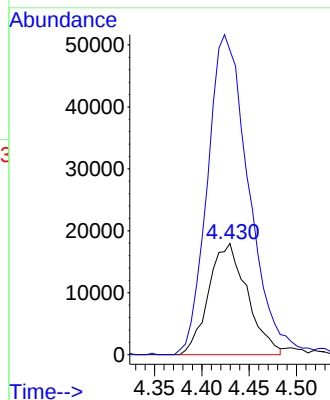
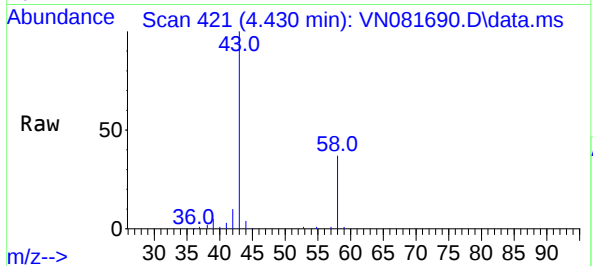




#15
Acetone
Concen: 153.311 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

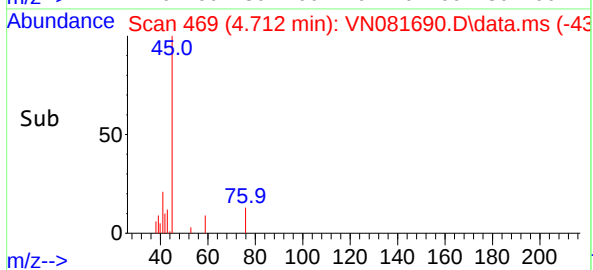
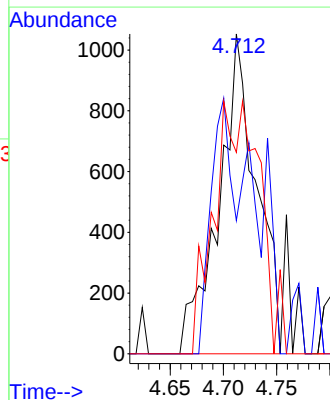
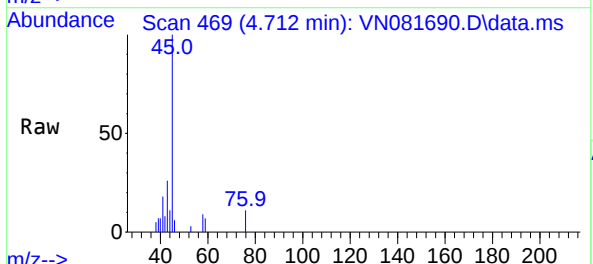
Instrument :
MSVOA_N
ClientSampleId :

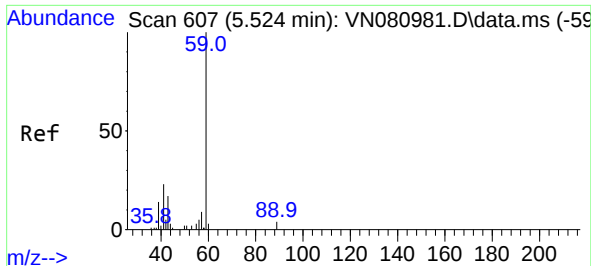
Tgt Ion: 58 Resp: 50996
Ion Ratio Lower Upper
58 100
43 269.3 223.1 334.7



#17
Allyl chloride
Concen: 0.645 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.312 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Tgt Ion: 41 Resp: 2580
Ion Ratio Lower Upper
41 100
39 41.7 37.6 112.9
76 63.0 27.8 83.4

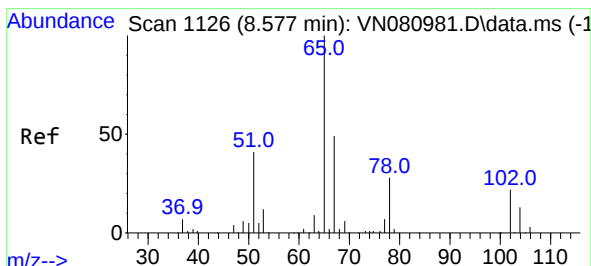
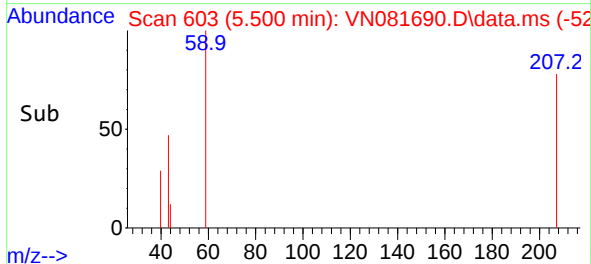
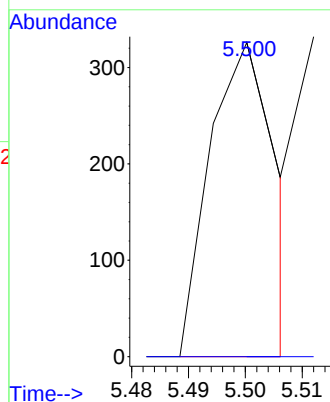
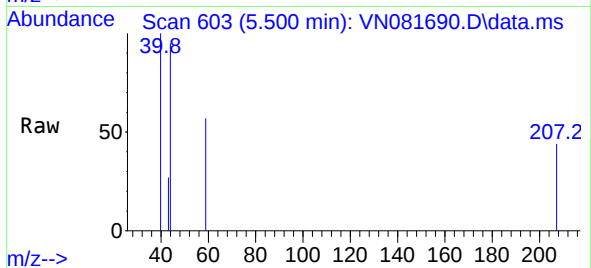




#23
tert-Butyl Alcohol
Concen: 0.495 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

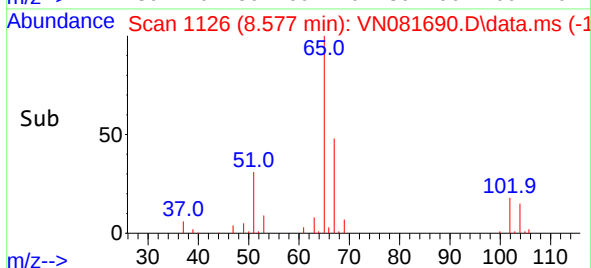
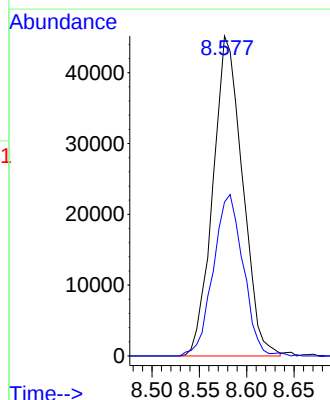
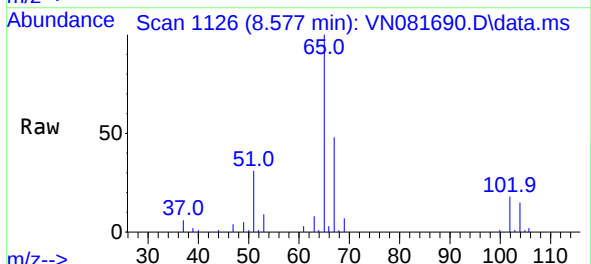
Instrument :
MSVOA_N
ClientSampleId :

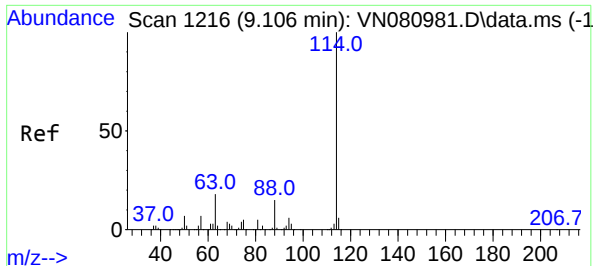
Tgt Ion: 59 Resp: 266
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 31.098 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Tgt Ion: 65 Resp: 98164
Ion Ratio Lower Upper
65 100
67 50.8 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN081690.D

Acq: 10 Apr 2024 19:17

Instrument :

MSVOA_N

ClientSampleId :

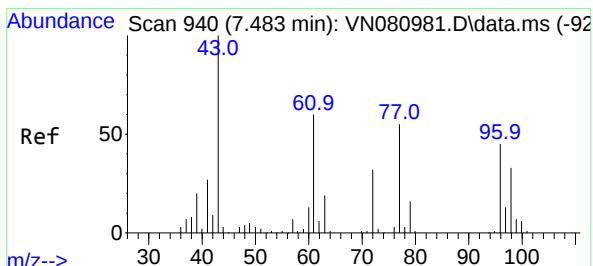
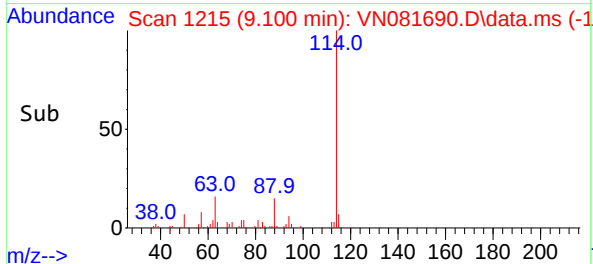
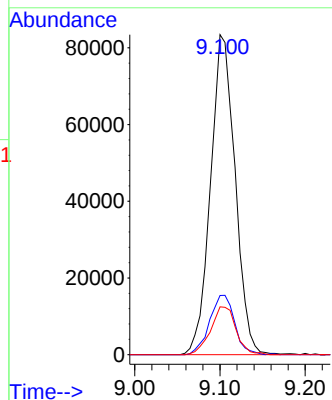
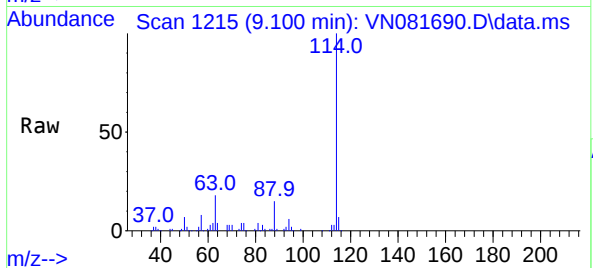
Tgt Ion:114 Resp: 167444

Ion Ratio Lower Upper

114 100

63 18.9 15.9 23.9

88 15.5 12.7 19.1



#30

2-Butanone

Concen: 9.029 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN081690.D

Acq: 10 Apr 2024 19:17

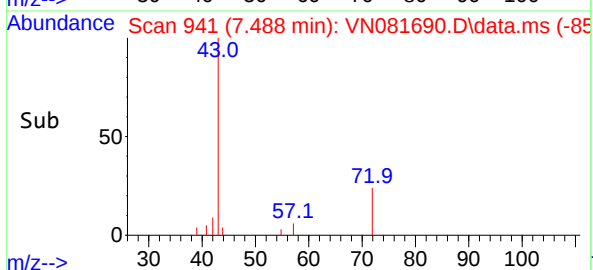
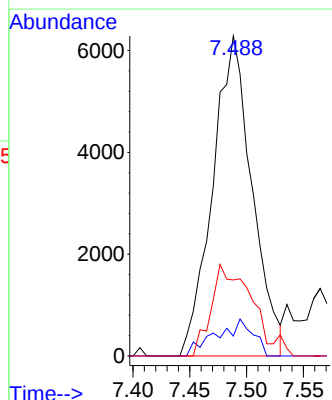
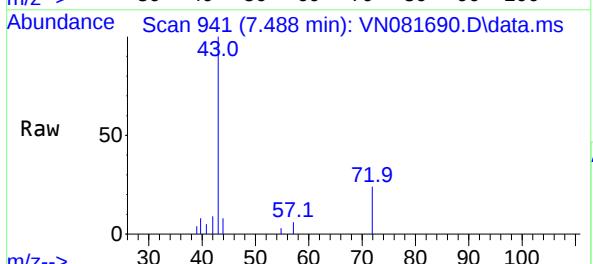
Tgt Ion: 43 Resp: 15180

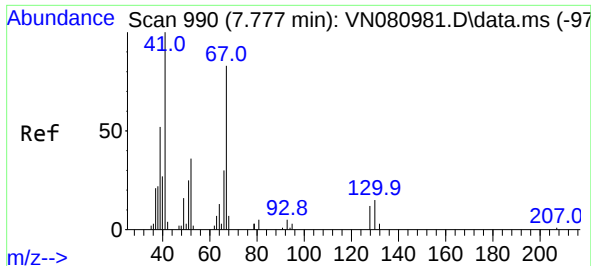
Ion Ratio Lower Upper

43 100

57 4.7 6.7 10.1#

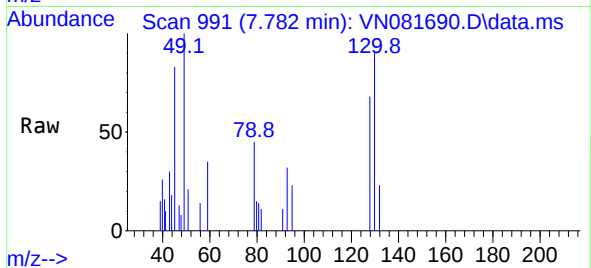
72 0.0 24.0 36.0#





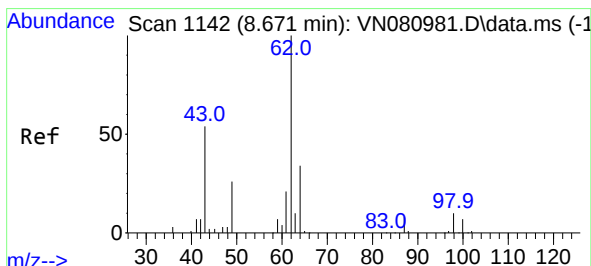
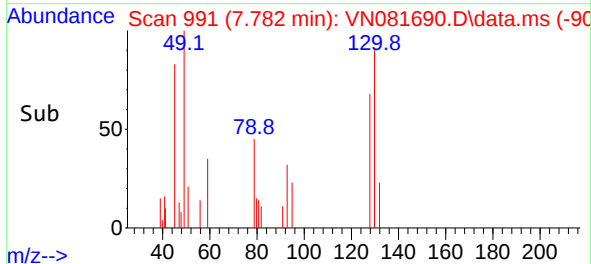
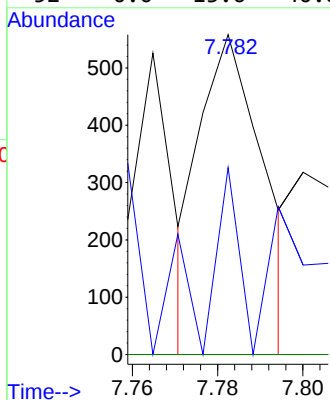
#35
Methacrylonitrile
Concen: 0.302 ug/l
RT: 7.782 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 41 Resp: 575

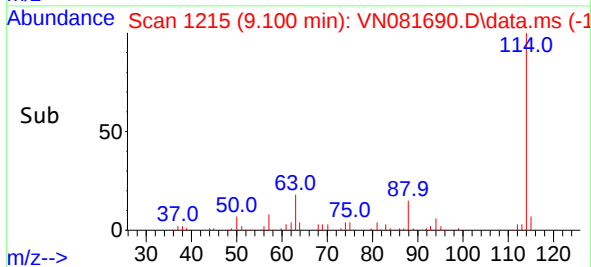
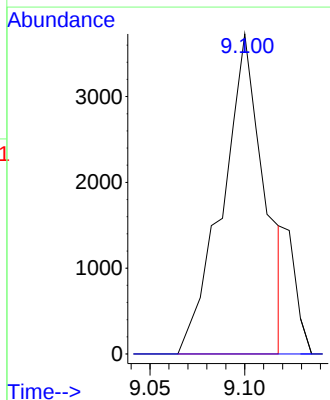
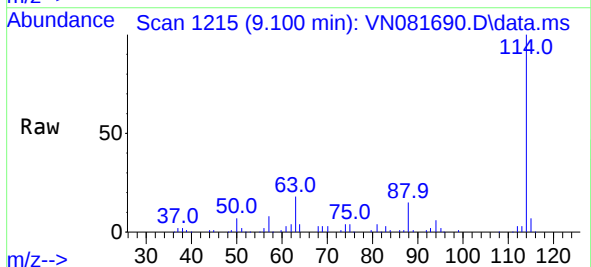
Ion	Ratio	Lower	Upper
41	100		
39	34.6	25.3	75.9
67	0.0	38.7	116.1#
52	0.0	13.6	40.8#

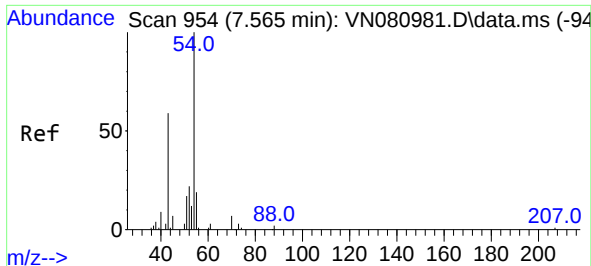


#36
1,2-Dichloroethane
Concen: 1.232 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Tgt Ion: 62 Resp: 5732

Ion	Ratio	Lower	Upper
62	100		
98	0.0	8.2	12.4#





#43

Ethyl Acetate

Concen: 0.573 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

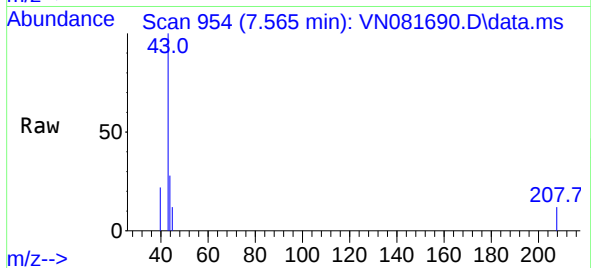
Lab File: VN081690.D

Acq: 10 Apr 2024 19:17

Instrument :

MSVOA_N

ClientSampleId :

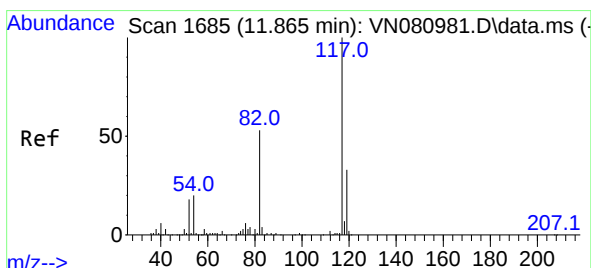
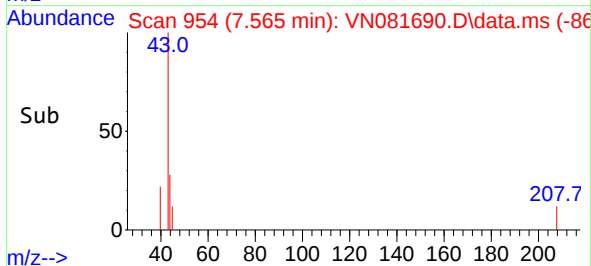
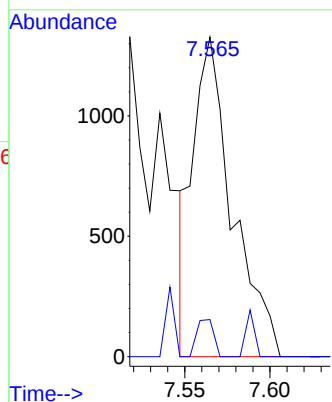


Tgt Ion: 43 Resp: 2124

Ion Ratio Lower Upper

43 100

45 5.0 10.6 15.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VN081690.D

Acq: 10 Apr 2024 19:17

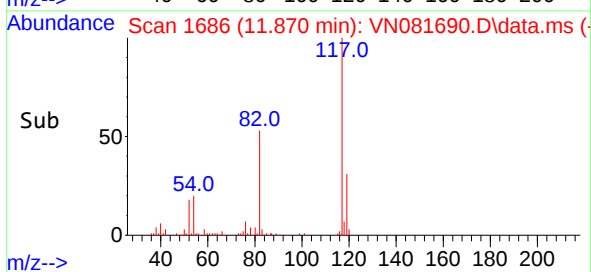
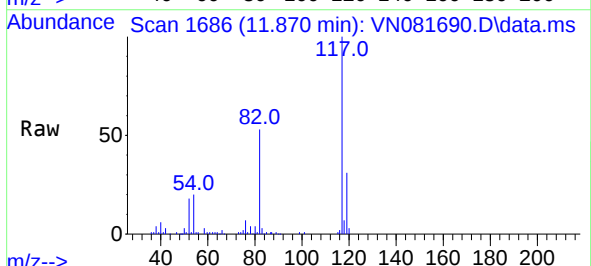
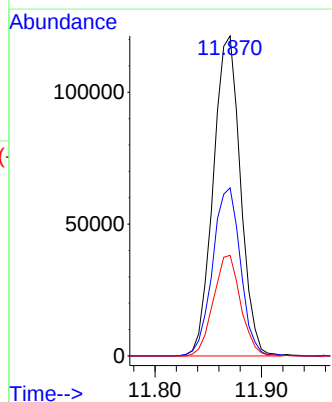
Tgt Ion: 117 Resp: 215397

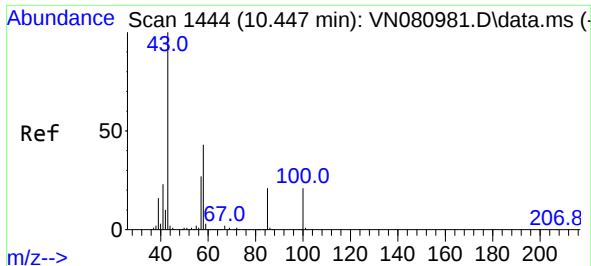
Ion Ratio Lower Upper

117 100

82 53.7 46.6 69.8

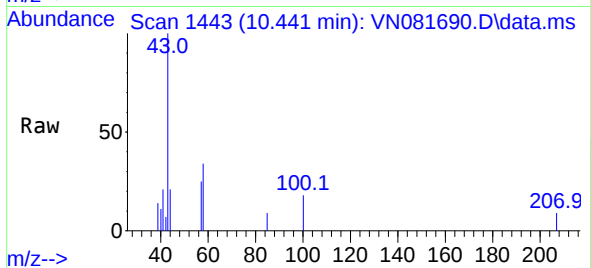
119 31.4 25.4 38.2



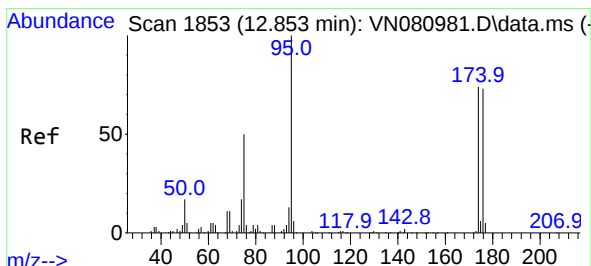
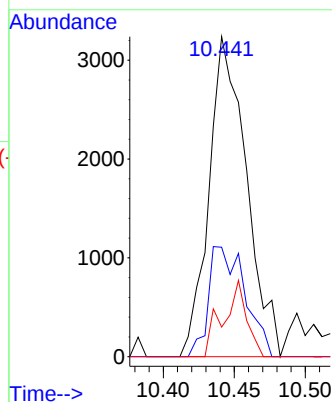
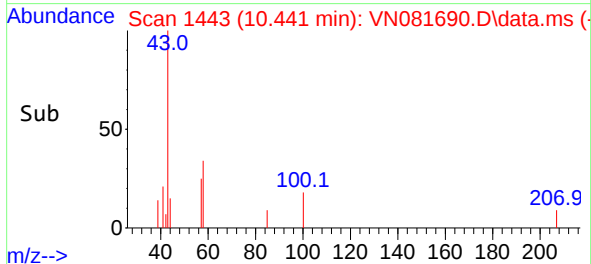


#58
4-Methyl-2-Pentanone
Concen: 1.603 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Instrument :
MSVOA_N
ClientSampleId :

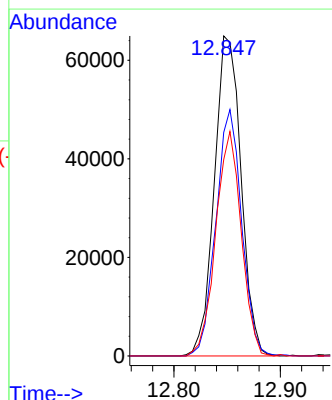
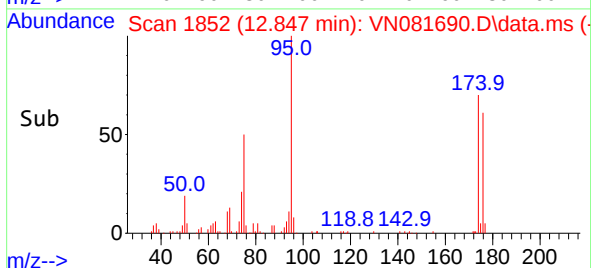
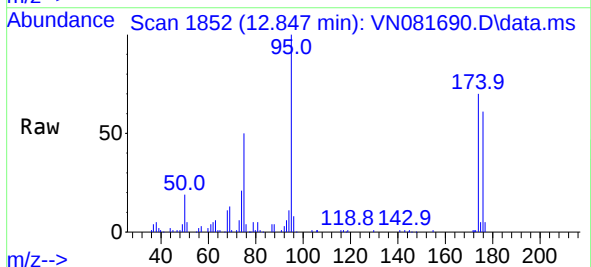


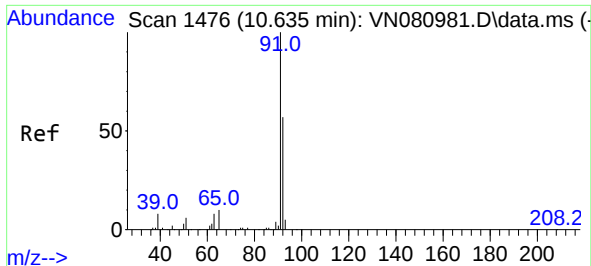
Tgt Ion: 43 Resp: 5939
Ion Ratio Lower Upper
43 100
58 20.5 36.5 54.7#
85 4.7 19.5 29.3#



#60
4-Bromofluorobenzene
Concen: 26.710 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Tgt Ion: 95 Resp: 113111
Ion Ratio Lower Upper
95 100
174 74.4 60.5 90.7
176 67.1 57.8 86.6

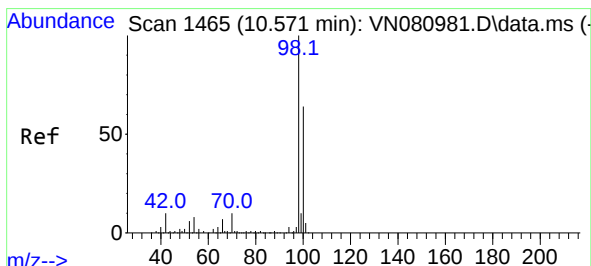
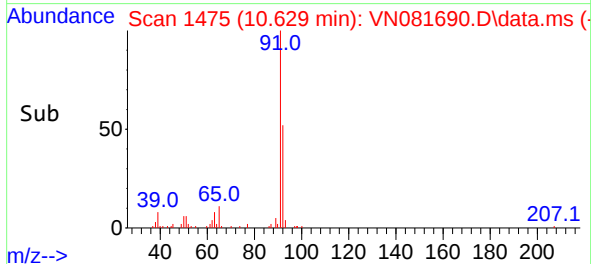
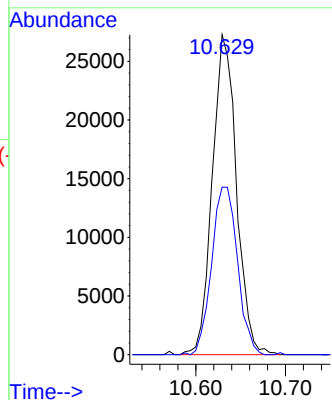
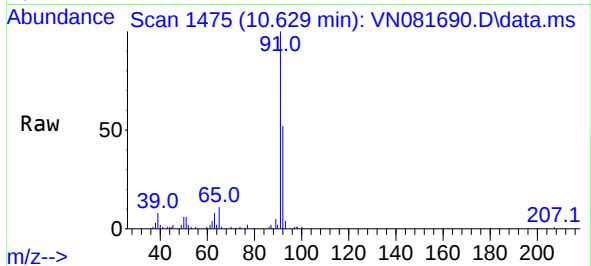




#62
Toluene
Concen: 3.244 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

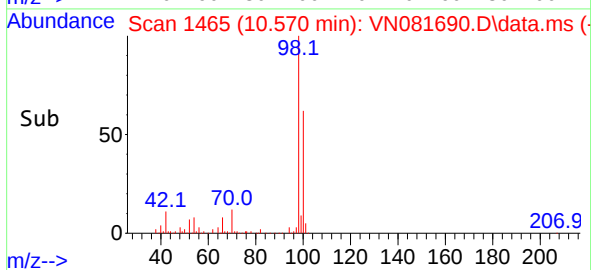
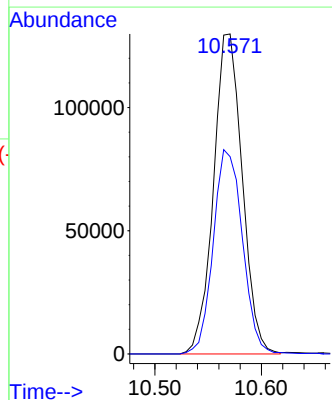
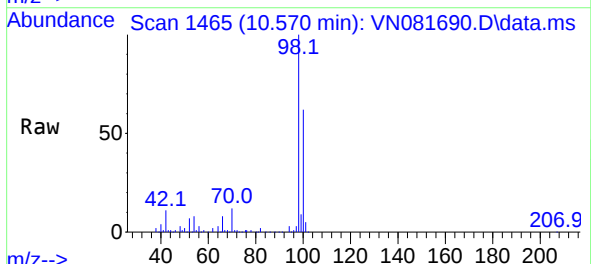
Instrument :
MSVOA_N
ClientSampleId :

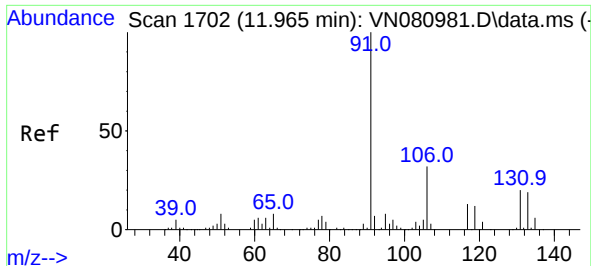
Tgt Ion: 91 Resp: 50836
Ion Ratio Lower Upper
91 100
92 56.1 46.5 69.7



#63
Toluene-d8
Concen: 28.202 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Tgt Ion: 98 Resp: 243666
Ion Ratio Lower Upper
98 100
100 64.5 52.7 79.1

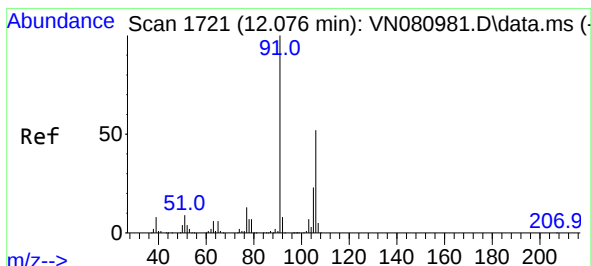
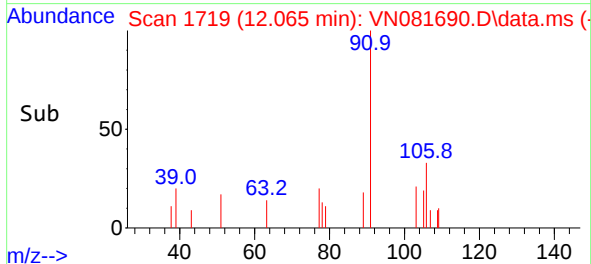
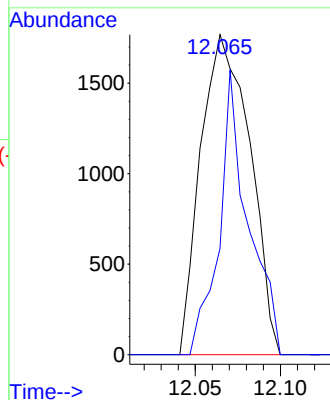
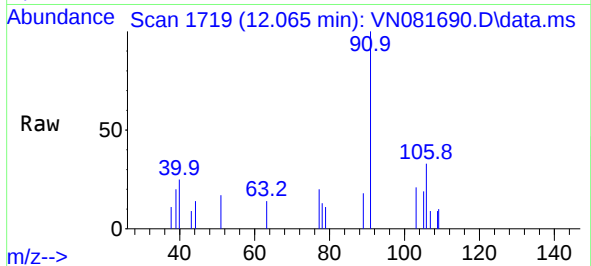




#66
Ethyl Benzene
Concen: 0.213 ug/l
RT: 12.065 min Scan# 11
Delta R.T. 0.100 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

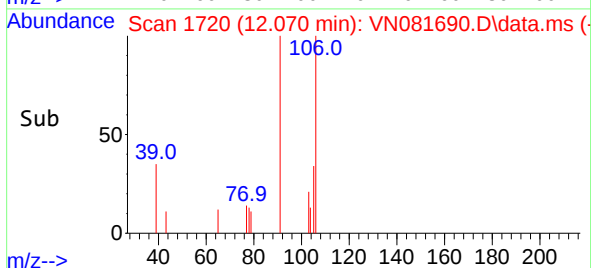
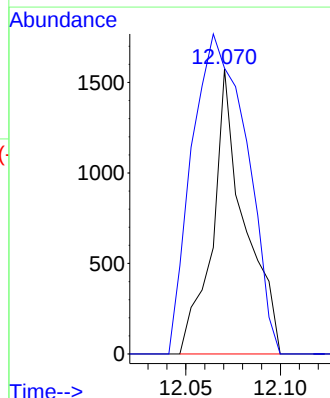
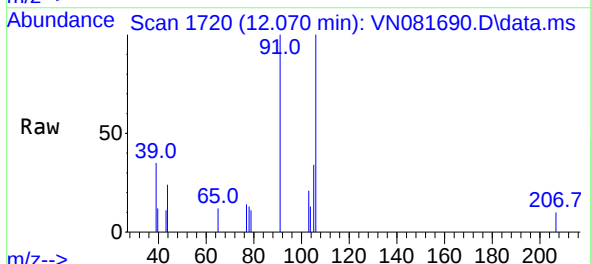
Instrument :
MSVOA_N
ClientSampleId :

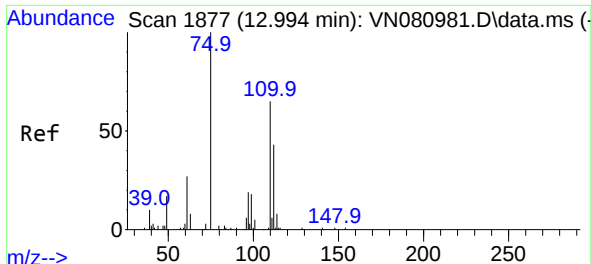
Tgt Ion: 91 Resp: 3557
Ion Ratio Lower Upper
91 100
106 33.3 24.4 36.6



#67
m/p-Xylenes
Concen: 0.280 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Tgt Ion: 106 Resp: 1851
Ion Ratio Lower Upper
106 100
91 192.2 166.6 249.8

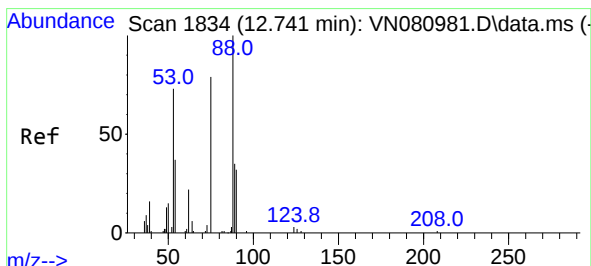
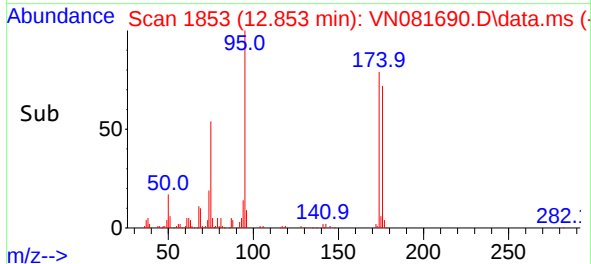
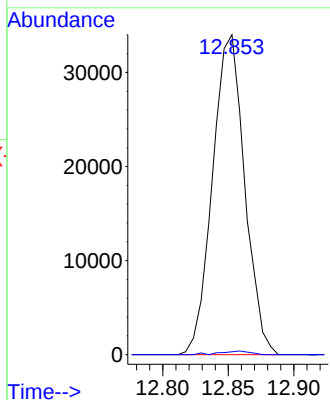
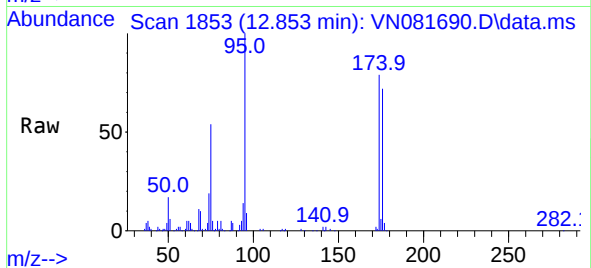




#72
1,2,3-Trichloropropane
Concen: 14.841 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

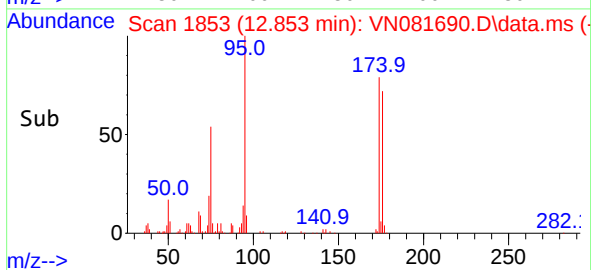
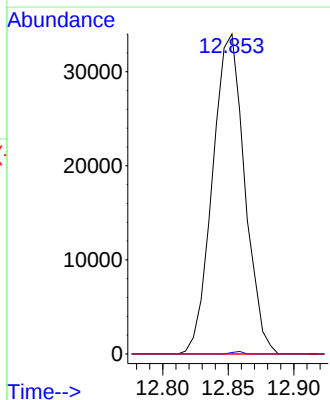
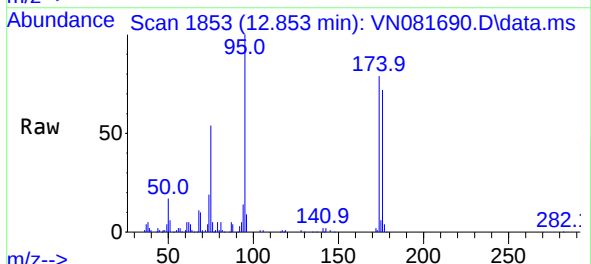
Instrument :
MSVOA_N
ClientSampleId :

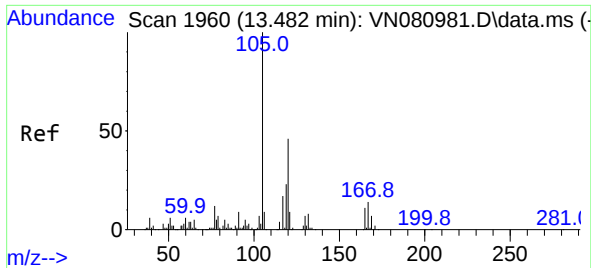
Tgt Ion: 75 Resp: 58014
Ion Ratio Lower Upper
75 100
77 0.9 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 35.838 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

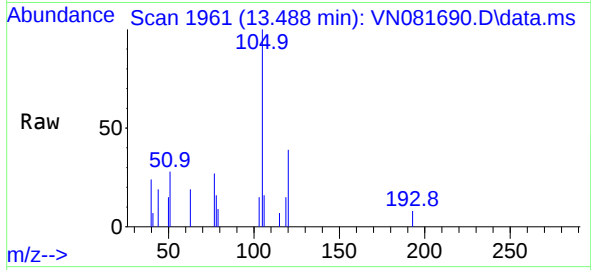
Tgt Ion: 75 Resp: 58014
Ion Ratio Lower Upper
75 100
53 0.5 45.9 137.7#
89 0.0 25.9 77.7#





#80
1,2,4-Trimethylbenzene
Concen: 0.345 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN081690.D
Acq: 10 Apr 2024 19:17

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	105	Resp:	4726
Ion Ratio	Lower	Upper	
105	100		
120	13.1	0.0	86.8

