

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041624\
 Data File : VN081754.D
 Acq On : 16 Apr 2024 13:15
 Operator : JC\MD
 Sample : P2070-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 17 03:23:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041524W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 15:37:39 2024
 Response via : Initial Calibration

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

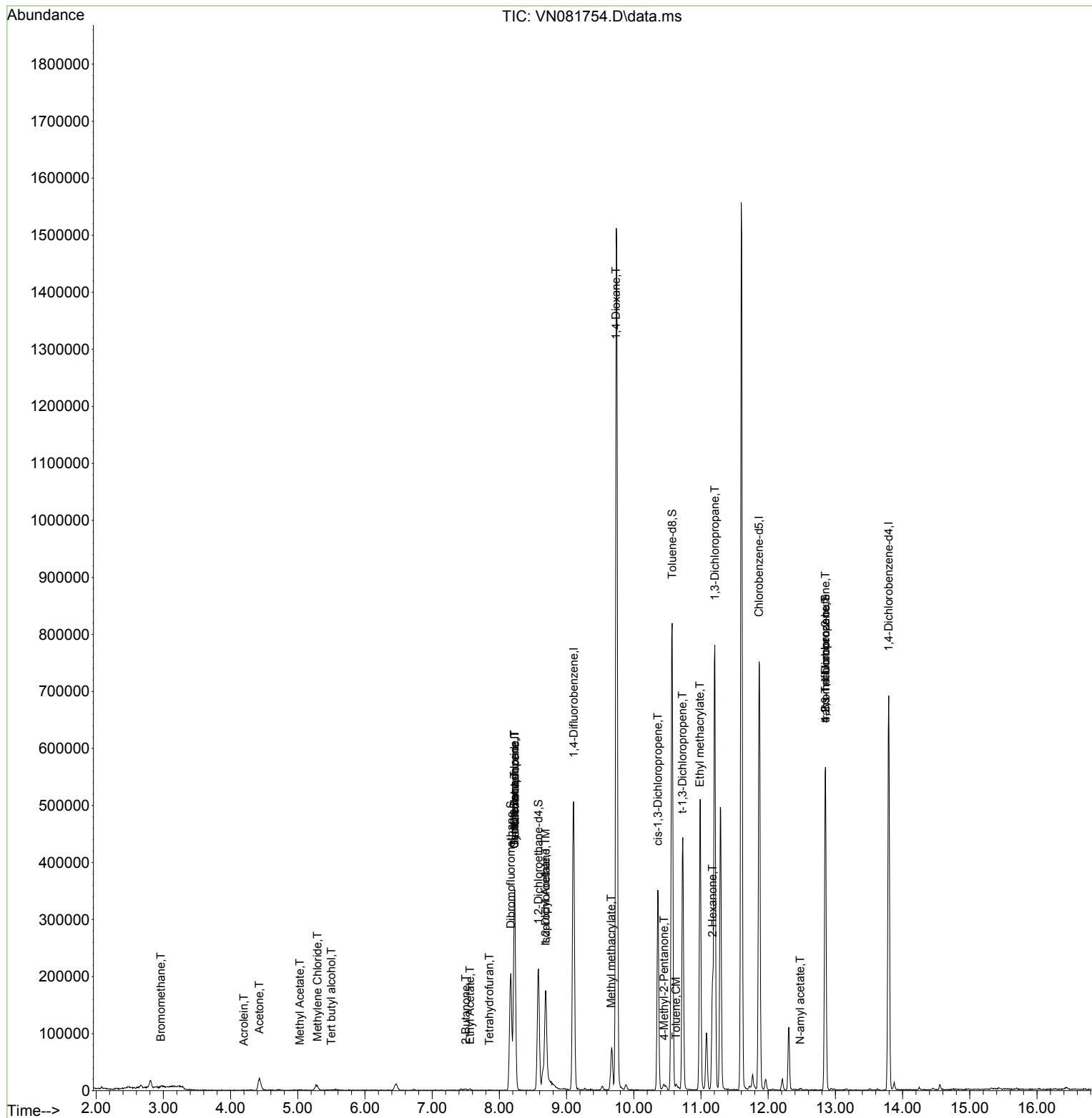
Internal Standards						
1) Pentafluorobenzene	8.229	168	248470	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	456436	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	442423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	180853	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	174631	49.946	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.900%		
35) Dibromofluoromethane	8.171	113	141723	47.021	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.040%		
50) Toluene-d8	10.570	98	574756	51.763	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.520%		
62) 4-Bromofluorobenzene	12.853	95	196262	51.724	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	103.440%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	627	Below Cal	#	43
5) Bromomethane	2.965	94	1523	0.655	ug/l #	75
6) Chloroethane	3.130	64	297	Below Cal	#	68
11) Tert butyl alcohol	5.500	59	374	0.784	ug/l #	71
13) Acrolein	4.200	56	432	0.852	ug/l #	50
16) Acetone	4.430	43	38664	39.732	ug/l	97
18) Methyl Acetate	5.030	43	1584	0.582	ug/l #	62
20) Methylene Chloride	5.294	84	7979	0.679	ug/l #	73
25) 2-Butanone	7.500	43	3947	2.460	ug/l #	61
29) Tetrahydrofuran	7.853	42	416	0.401	ug/l #	29
31) Cyclohexane	8.224	56	6095	1.271	ug/l #	33
36) 1,1-Dichloropropene	8.229	75	21867	5.207	ug/l #	49
37) Ethyl Acetate	7.565	43	4296	1.245	ug/l #	78
38) Carbon Tetrachloride	8.224	117	28698	5.874	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1442	0.316	ug/l #	73
43) Isopropyl Acetate	8.688	43	229414	35.636	ug/l #	80
48) Methyl methacrylate	9.665	41	5040	1.921	ug/l #	37
49) 1,4-Dioxane	9.735	88	207	3.146	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	6016	1.680	ug/l	90
52) Toluene	10.629	92	3617	0.435	ug/l	76
53) t-1,3-Dichloropropene	10.723	75	1098	0.229	ug/l #	75
54) cis-1,3-Dichloropropene	10.359	75	64602	12.661	ug/l #	68
56) Ethyl methacrylate	10.982	69	1962	0.457	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8583	1.643	ug/l #	42
59) 2-Hexanone	11.170	43	142898	55.128	ug/l #	23
74) N-amyl acetate	12.476	43	1686	0.342	ug/l #	43
76) 1,2,3-Trichloropropane	12.853	75	104663	30.325	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	104663	70.811	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.694	75	93	Below Cal	#	2

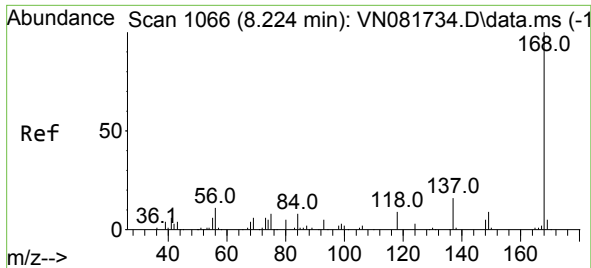
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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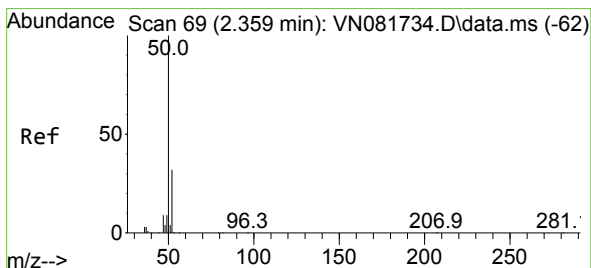
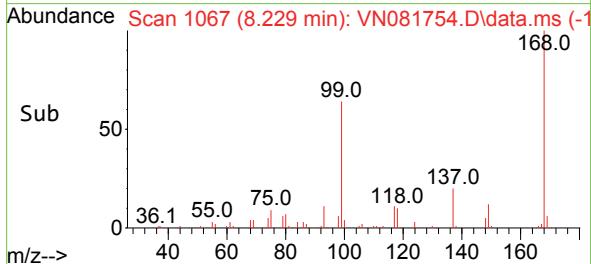
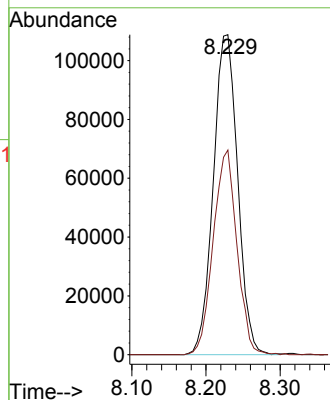
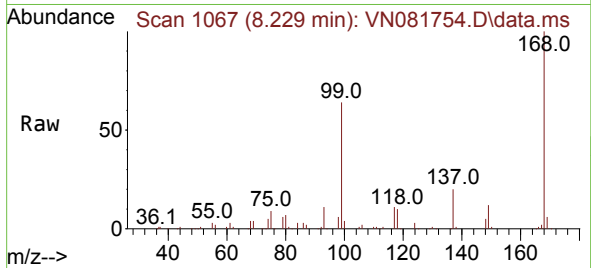




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1066
Delta R.T. 0.005 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

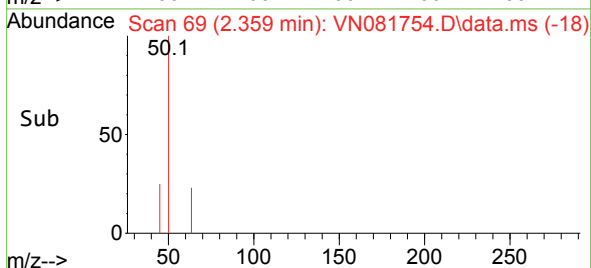
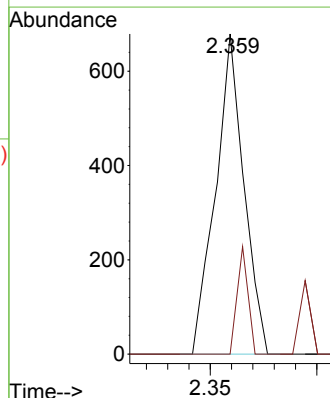
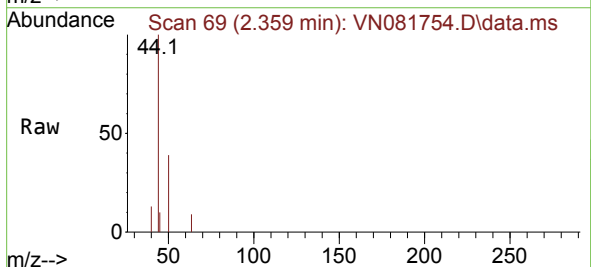
Instrument :
MSVOA_N
ClientSampleId :

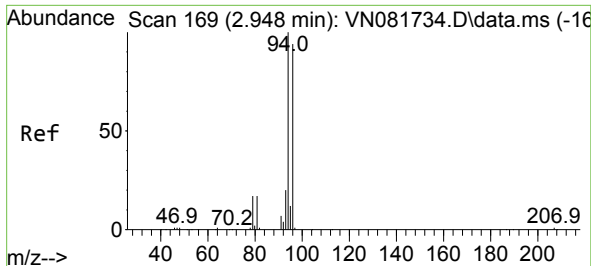
Tgt Ion:168 Resp: 248470
Ion Ratio Lower Upper
168 100
99 63.9 48.2 72.4



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

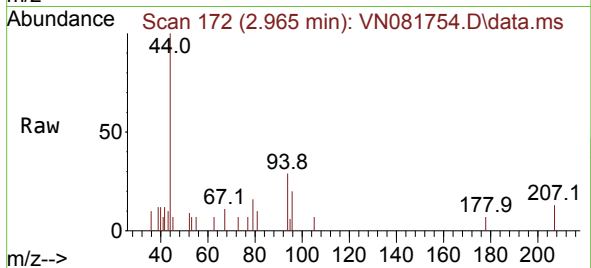
Tgt Ion: 50 Resp: 627
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#



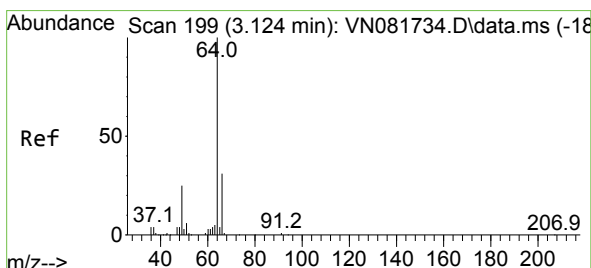
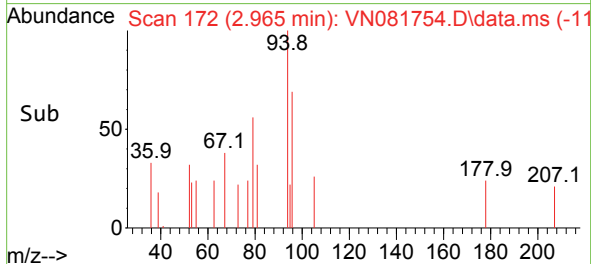
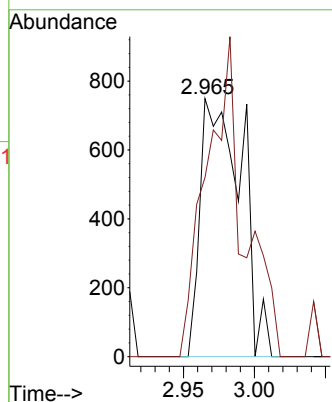


#5
Bromomethane
Concen: 0.655 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

Instrument :
MSVOA_N
ClientSampleId :

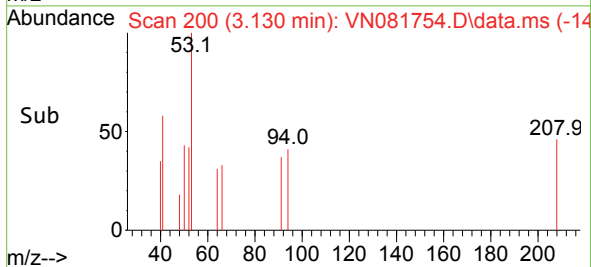
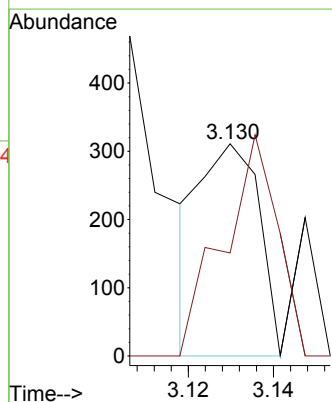
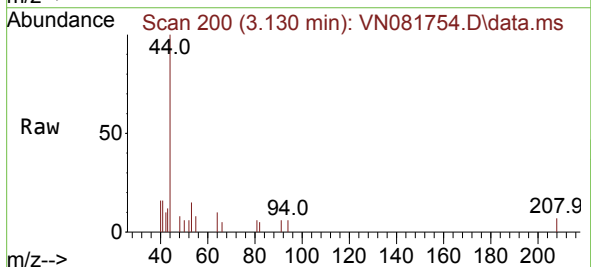


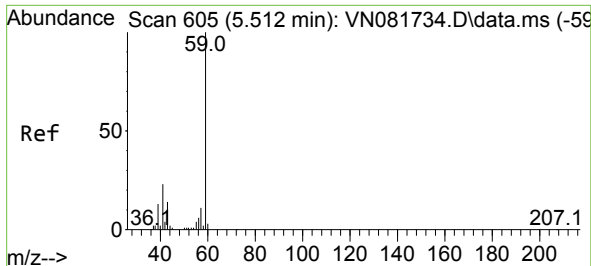
Tgt Ion: 94 Resp: 1523
Ion Ratio Lower Upper
94 100
96 69.4 74.8 112.2#



#6
Chloroethane
Concen: Below Cal
RT: 3.130 min Scan# 200
Delta R.T. 0.006 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

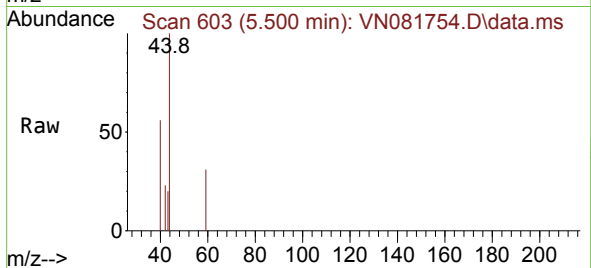
Tgt Ion: 64 Resp: 297
Ion Ratio Lower Upper
64 100
66 48.6 24.7 37.1#



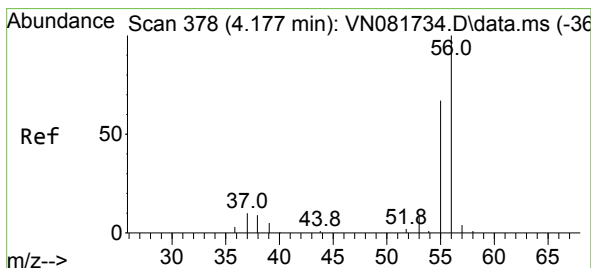
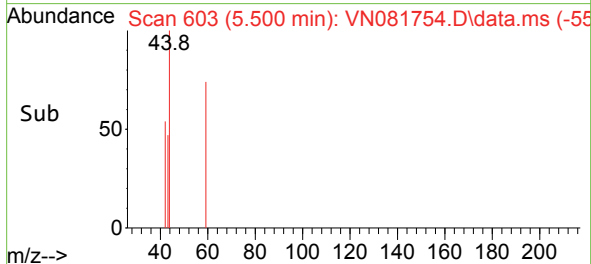
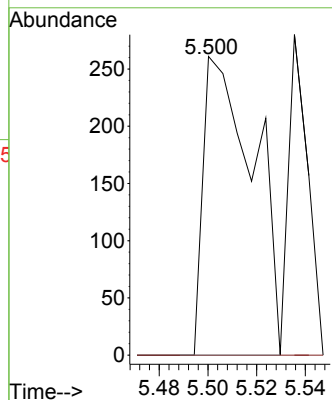


#11
Tert butyl alcohol
Concen: 0.784 ug/l
RT: 5.500 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

Instrument :
MSVOA_N
ClientSampleId :

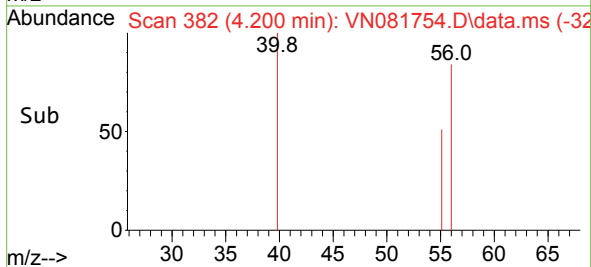
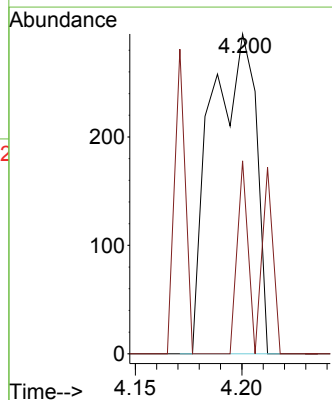
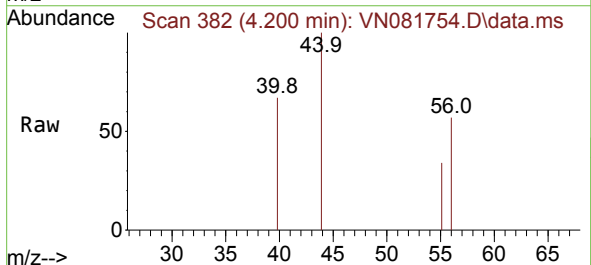


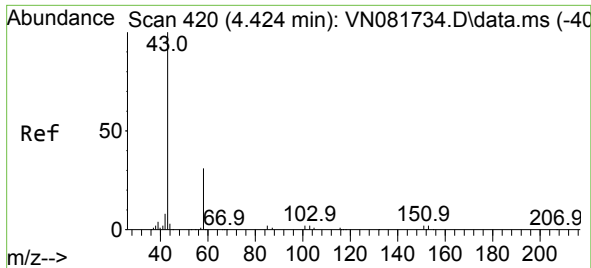
Tgt Ion: 59 Resp: 374
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



#13
Acrolein
Concen: 0.852 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.023 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

Tgt Ion: 56 Resp: 432
Ion Ratio Lower Upper
56 100
55 28.5 55.8 83.8#

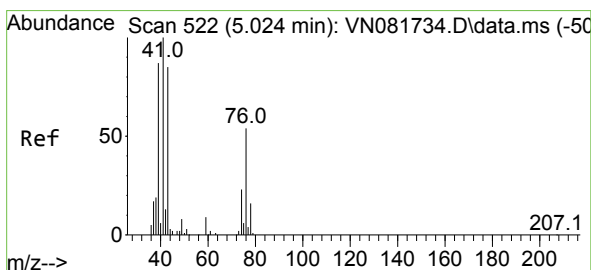
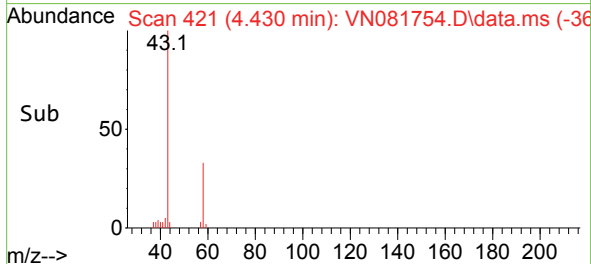
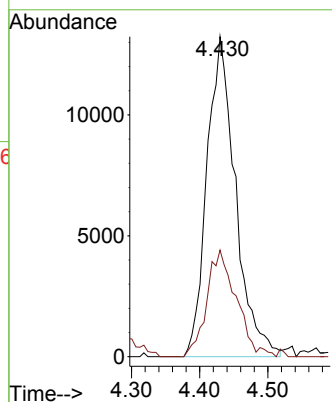
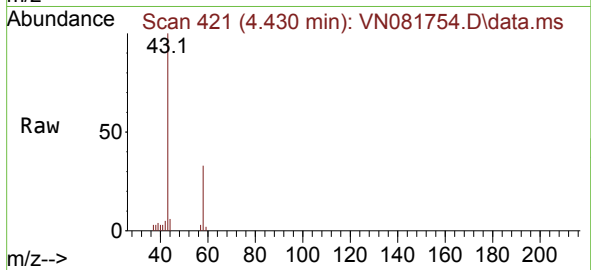




#16
Acetone
Concen: 39.732 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

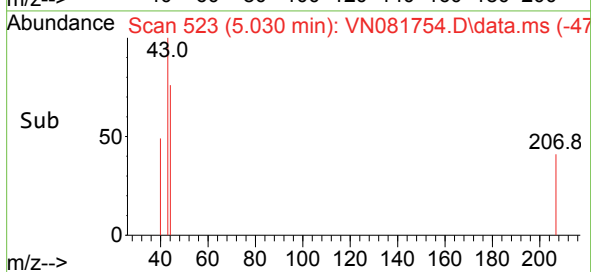
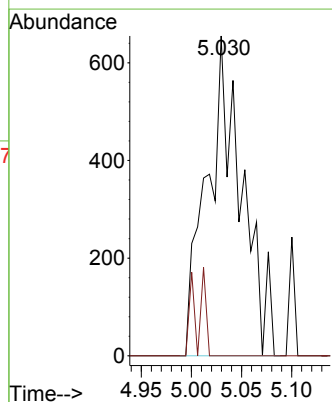
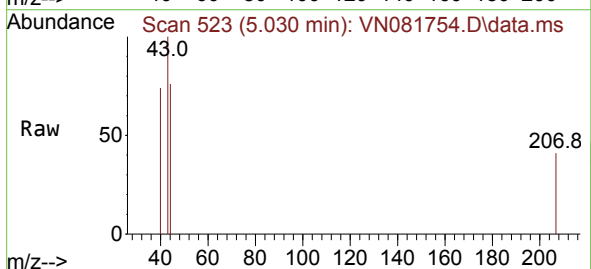
Instrument :
MSVOA_N
ClientSampleId :

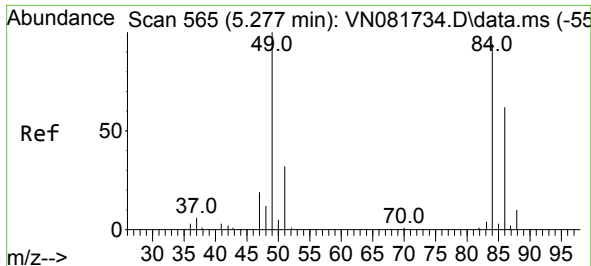
Tgt Ion: 43 Resp: 38664
Ion Ratio Lower Upper
43 100
58 33.3 25.2 37.8



#18
Methyl Acetate
Concen: 0.582 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

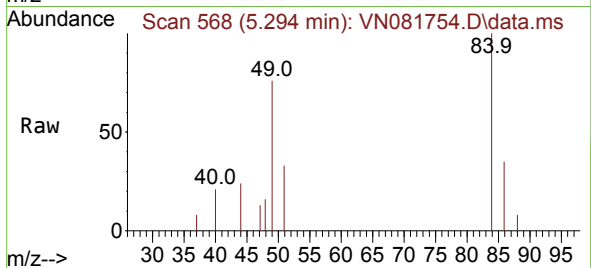
Tgt Ion: 43 Resp: 1584
Ion Ratio Lower Upper
43 100
74 7.8 22.2 33.2#



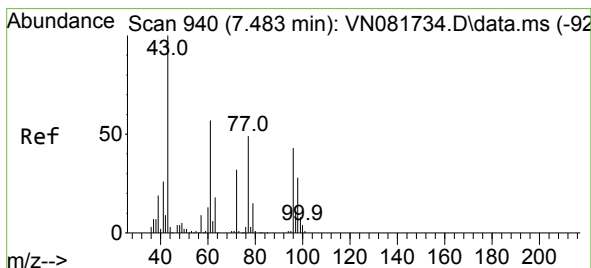
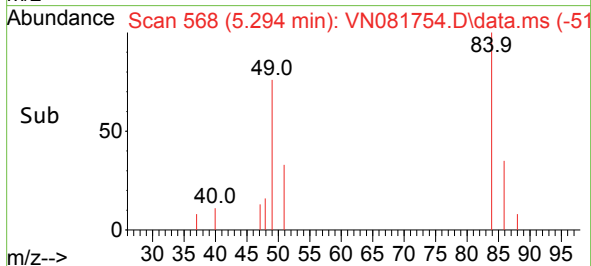
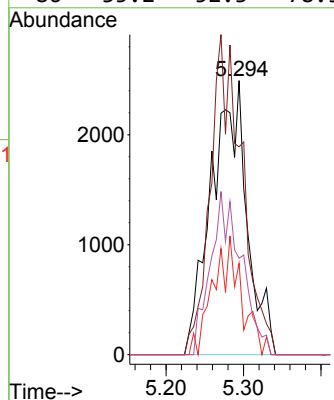


#20
Methylene Chloride
Concen: 0.679 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

Instrument :
MSVOA_N
ClientSampleId :

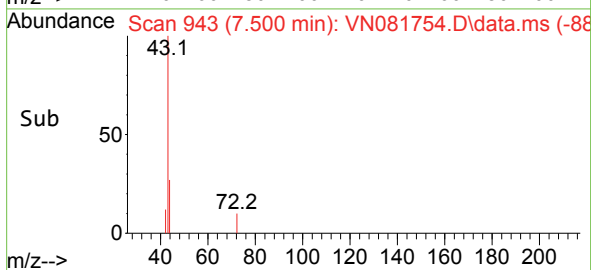
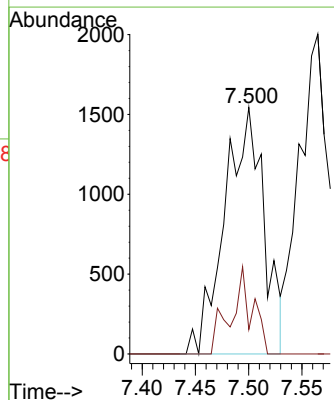
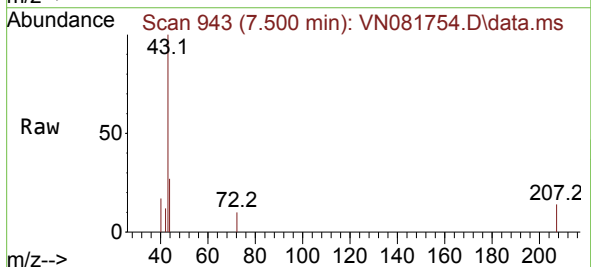


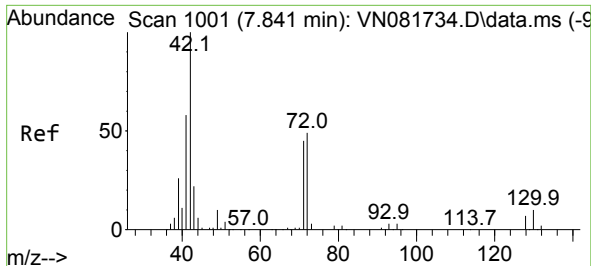
Tgt Ion: 84	Resp: 7979
Ion Ratio	Lower Upper
84 100	
49 75.8	84.9 127.3#
51 33.3	27.0 40.6
86 35.2	52.3 78.5#



#25
2-Butanone
Concen: 2.460 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.017 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

Tgt Ion: 43	Resp: 3947
Ion Ratio	Lower Upper
43 100	
72 9.9	25.3 37.9#





#29

Tetrahydrofuran

Concen: 0.401 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.012 min

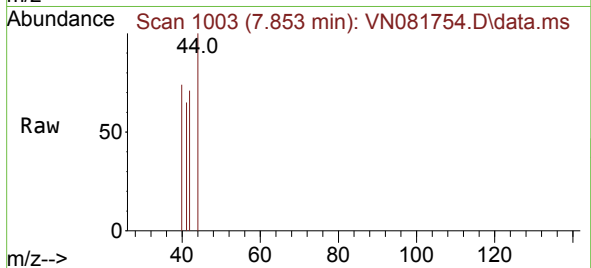
Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :



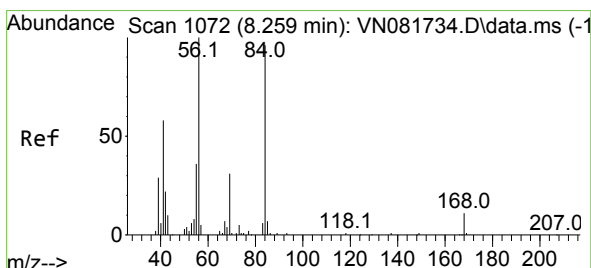
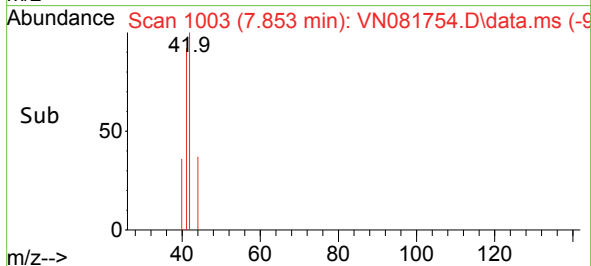
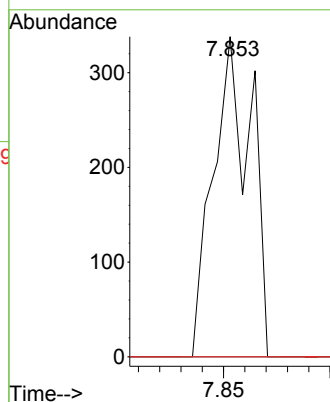
Tgt Ion: 42 Resp: 416

Ion Ratio Lower Upper

42 100

72 0.0 39.3 58.9#

71 0.0 37.4 56.0#



#31

Cyclohexane

Concen: 1.271 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.035 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

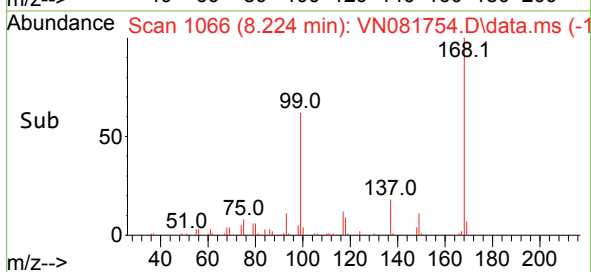
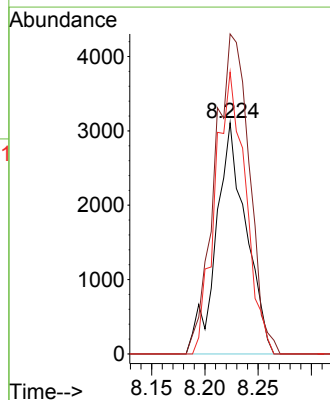
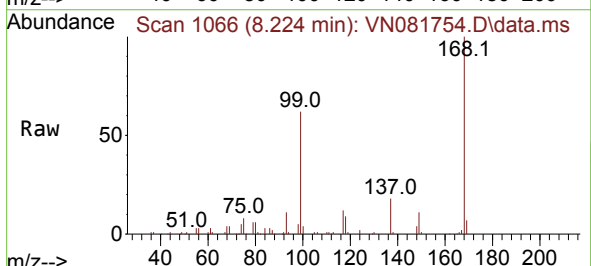
Tgt Ion: 56 Resp: 6095

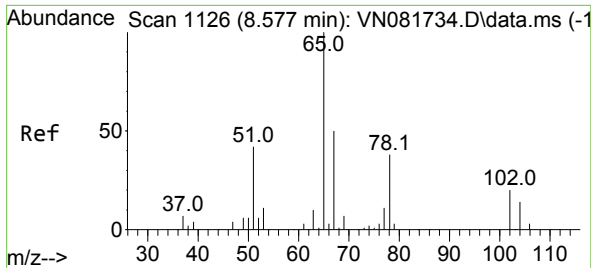
Ion Ratio Lower Upper

56 100

69 138.4 24.4 36.6#

84 121.9 77.0 115.4#

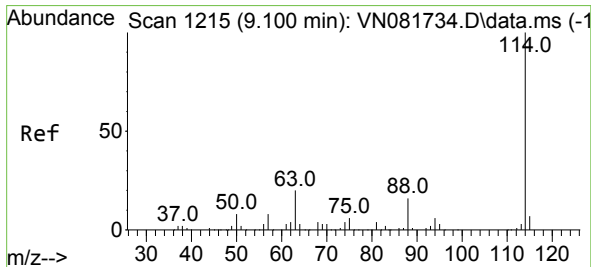
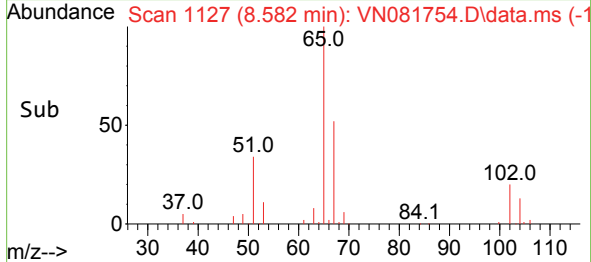
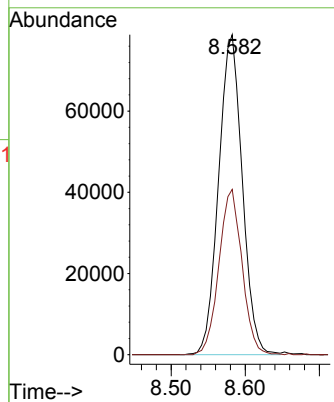
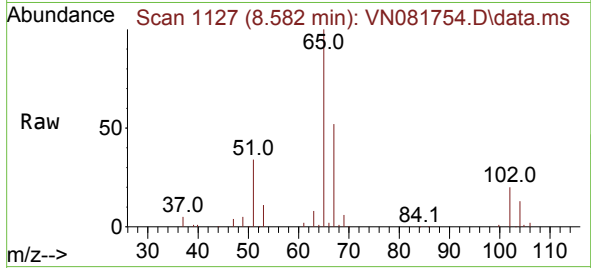




#33
1,2-Dichloroethane-d4
Concen: 49.946 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.005 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

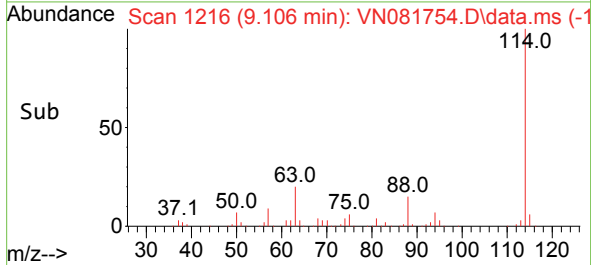
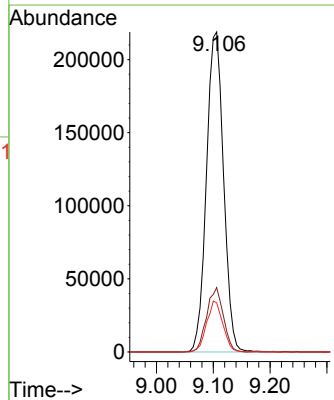
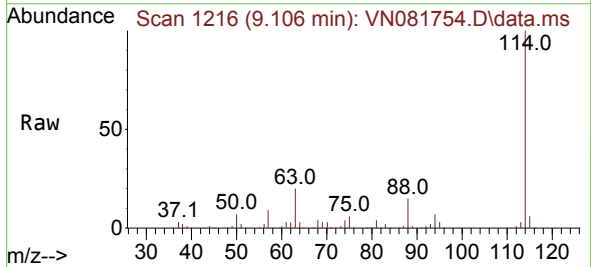
Instrument :
MSVOA_N
ClientSampleId :

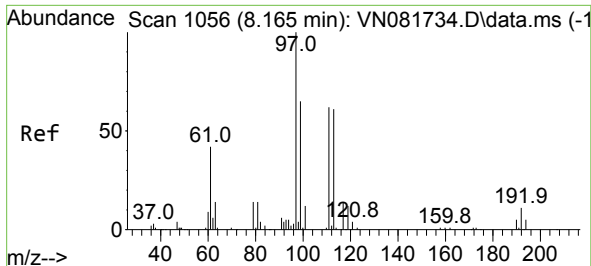
Tgt Ion: 65 Resp: 174631
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.006 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

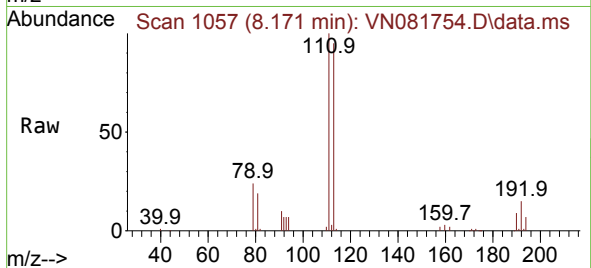
Tgt Ion:114 Resp: 456436
Ion Ratio Lower Upper
114 100
63 20.1 0.0 41.0
88 15.4 0.0 31.4



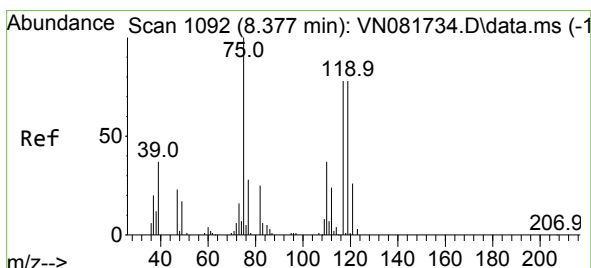
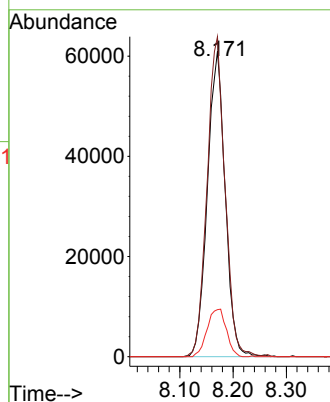
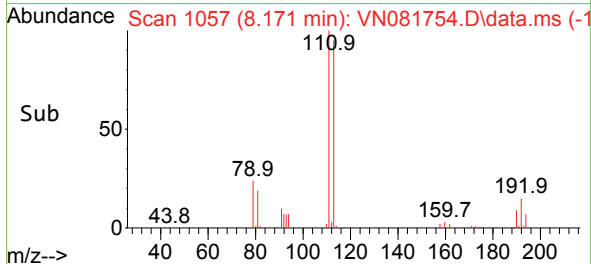


#35
 Dibromofluoromethane
 Concen: 47.021 ug/l
 RT: 8.171 min Scan# 1057
 Delta R.T. 0.006 min
 Lab File: VN081754.D
 Acq: 16 Apr 2024 13:15

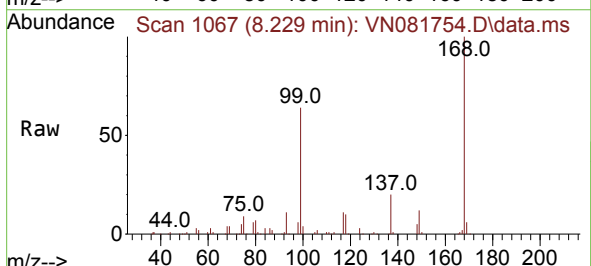
Instrument :
 MSVOA_N
 ClientSampleId :



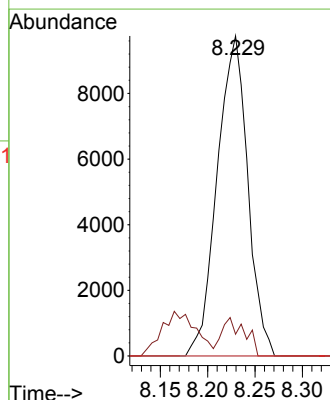
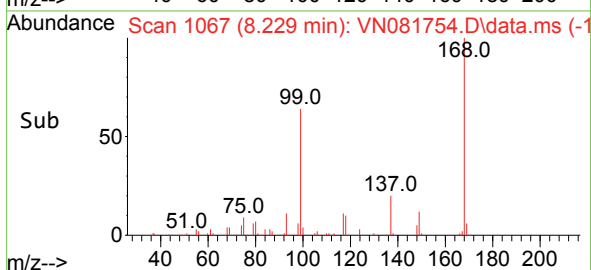
Tgt Ion: 113 Resp: 141723
 Ion Ratio Lower Upper
 113 100
 111 105.4 83.4 125.2
 192 16.8 14.0 21.0

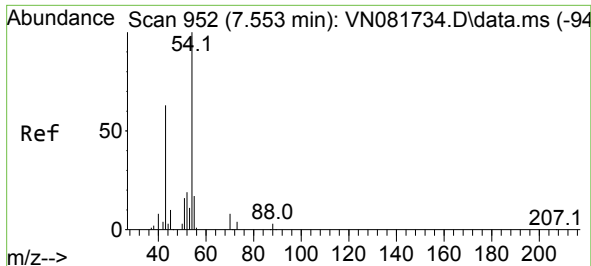


#36
 1,1-Dichloropropene
 Concen: 5.207 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.148 min
 Lab File: VN081754.D
 Acq: 16 Apr 2024 13:15



Tgt Ion: 75 Resp: 21867
 Ion Ratio Lower Upper
 75 100
 110 9.0 17.8 53.5#
 77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.245 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.012 min

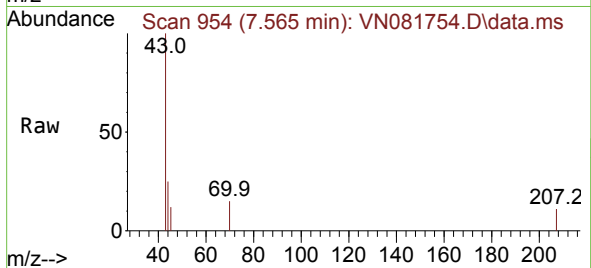
Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

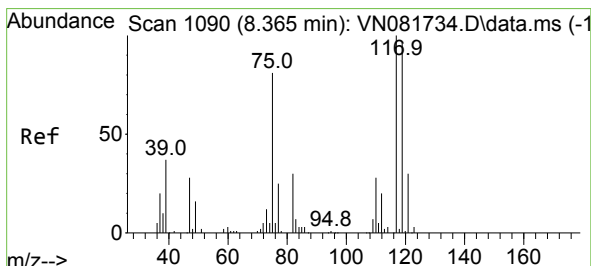
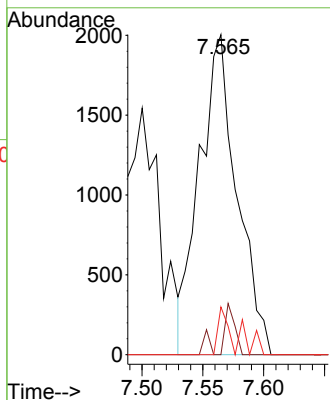
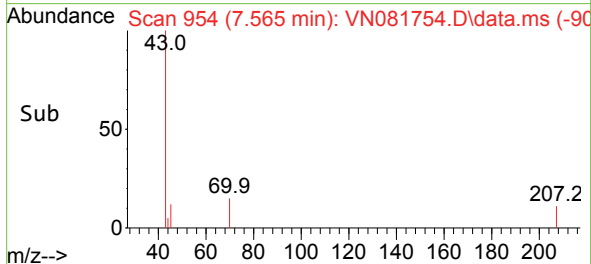
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4296
Ion	Ratio	Lower	Upper
43	100		
61	4.1	11.3	16.9#
70	3.9	8.7	13.1#



#38

Carbon Tetrachloride

Concen: 5.874 ug/l

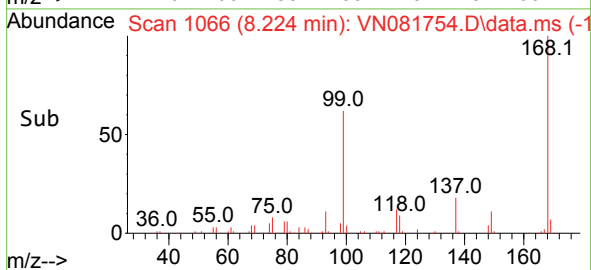
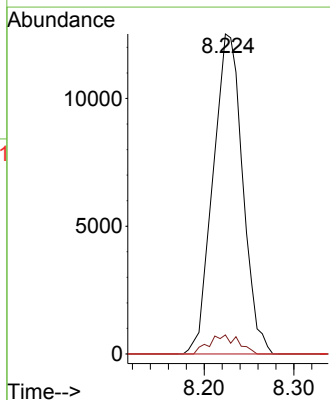
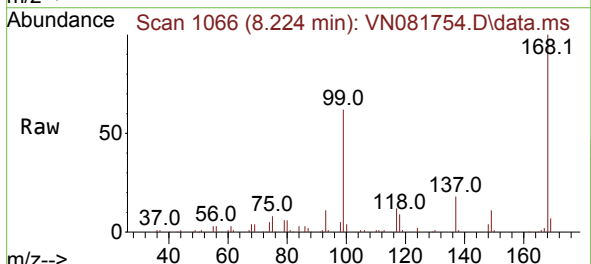
RT: 8.224 min Scan# 1066

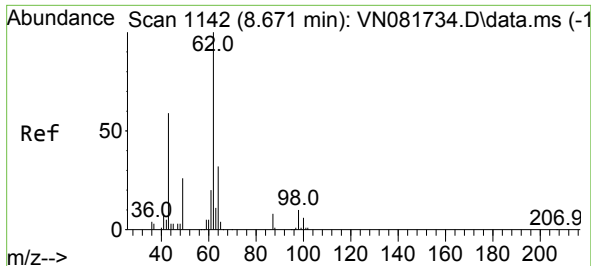
Delta R.T. -0.141 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Tgt Ion:	117	Resp:	28698
Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.5	114.7#
121	0.0	23.9	35.9#





#42

1,2-Dichloroethane

Concen: 0.316 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.017 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Instrument :

MSVOA_N

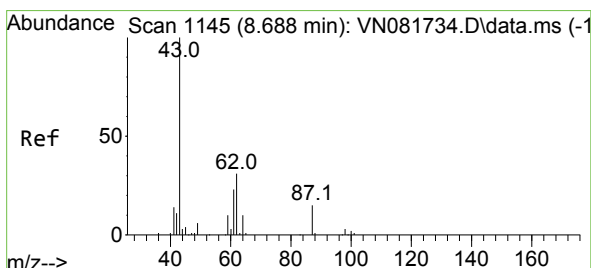
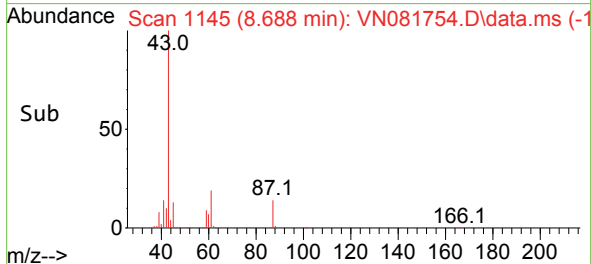
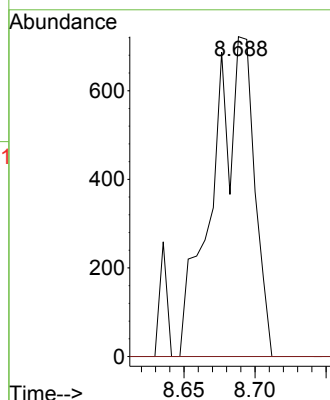
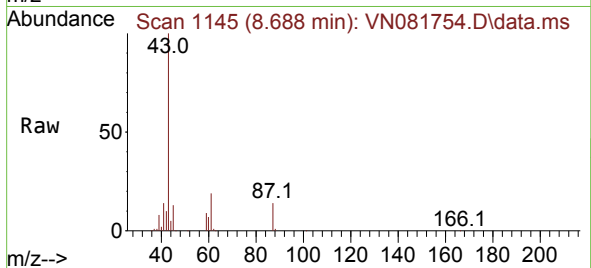
ClientSampleId :

Tgt Ion: 62 Resp: 1442

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 35.636 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

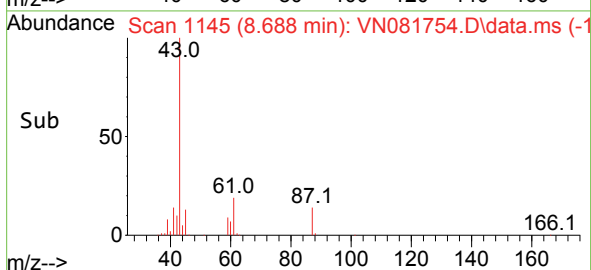
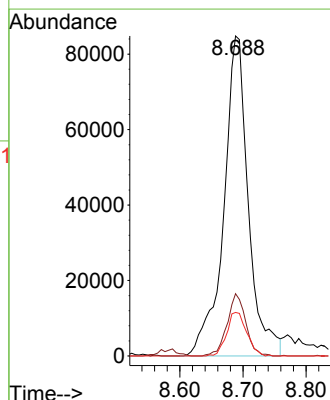
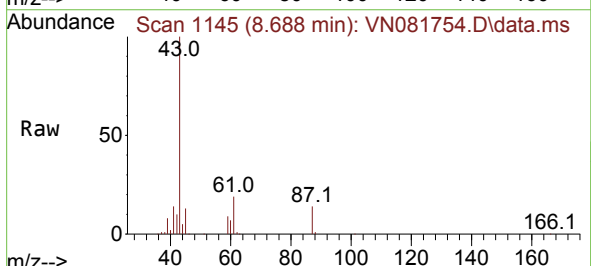
Tgt Ion: 43 Resp: 229414

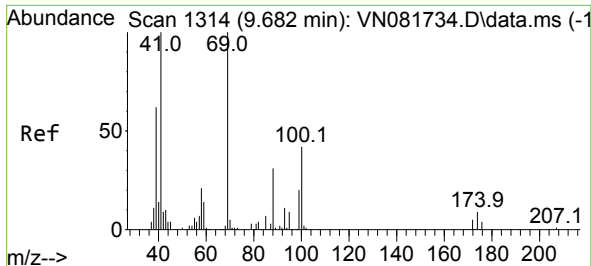
Ion Ratio Lower Upper

43 100

61 14.7 22.8 34.2#

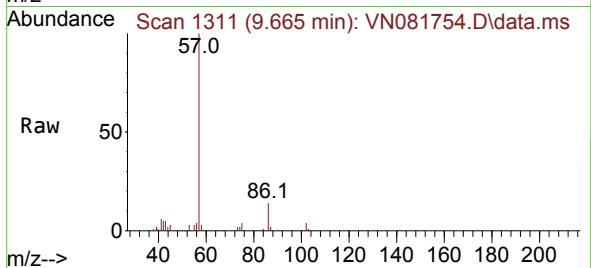
87 11.1 12.0 18.0#



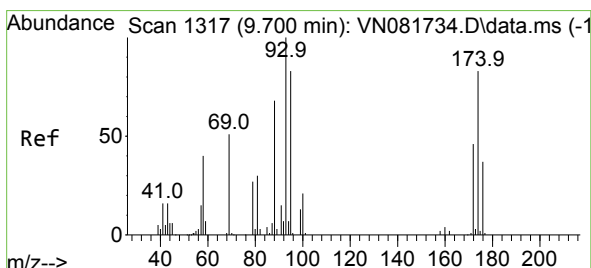
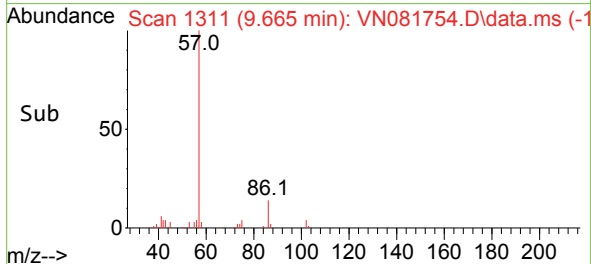
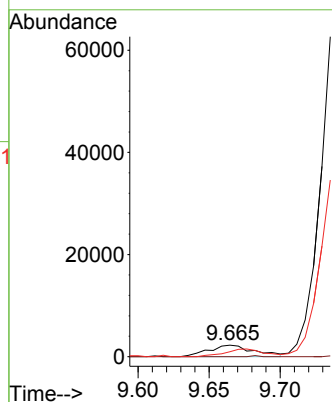


#48
Methyl methacrylate
Concen: 1.921 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

Instrument :
MSVOA_N
ClientSampleId :

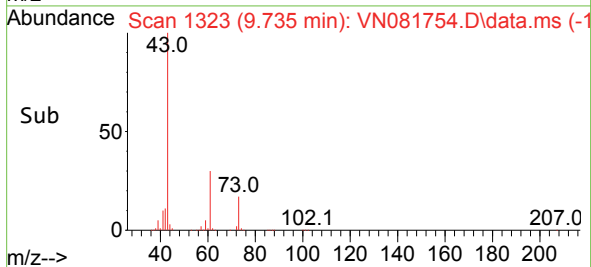
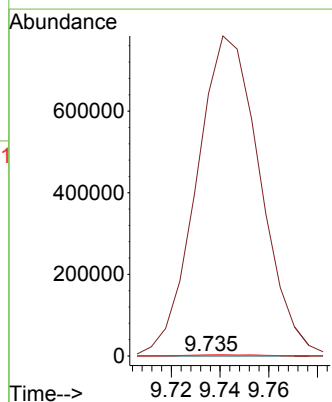
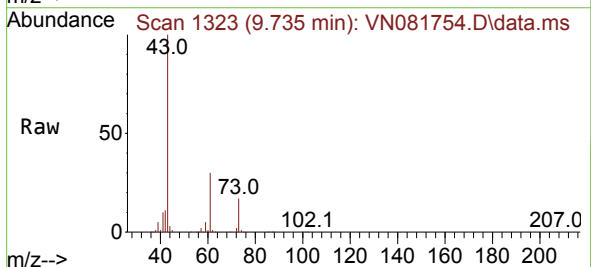


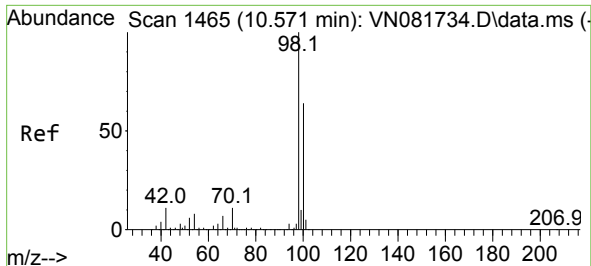
Tgt Ion: 41 Resp: 5040
Ion Ratio Lower Upper
41 100
69 1.6 77.9 116.9#
39 56.4 50.9 76.3



#49
1,4-Dioxane
Concen: 3.146 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.035 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

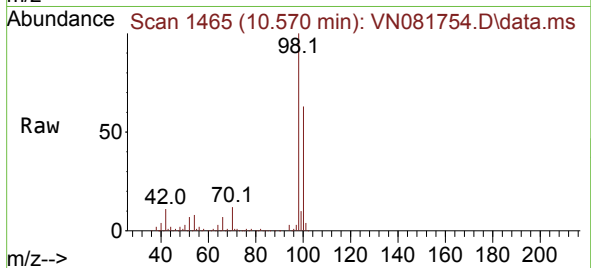
Tgt Ion: 88 Resp: 207
Ion Ratio Lower Upper
88 100
43 693702.9 19.0 28.6#
58 3185.5 50.6 76.0#



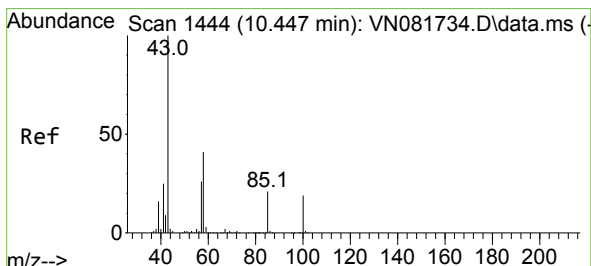
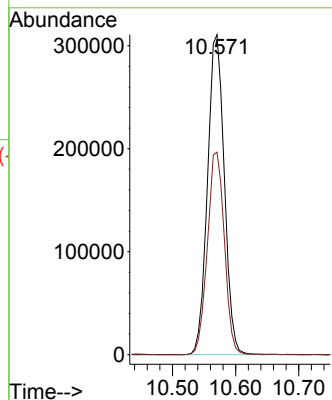
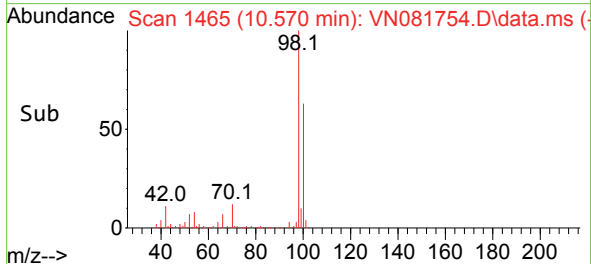


#50
Toluene-d8
Concen: 51.763 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

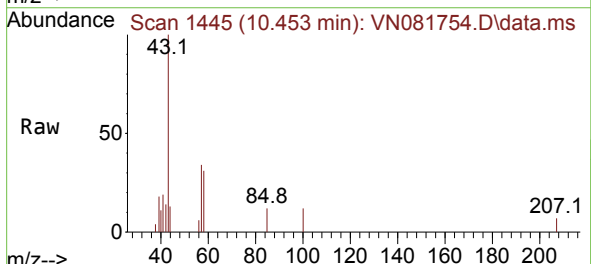
Instrument :
MSVOA_N
ClientSampleId :



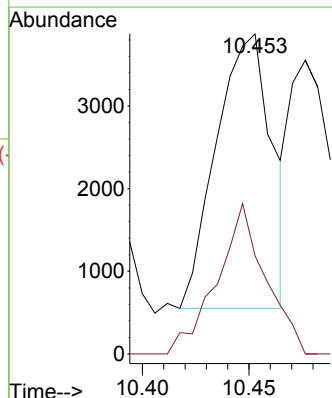
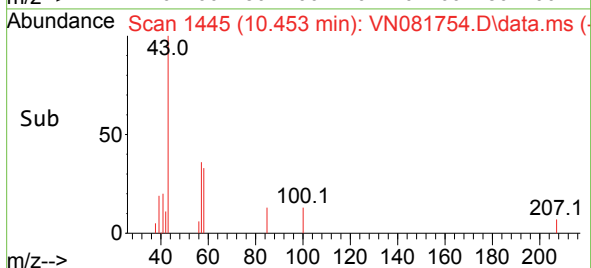
Tgt Ion: 98 Resp: 574756
Ion Ratio Lower Upper
98 100
100 63.9 51.8 77.6

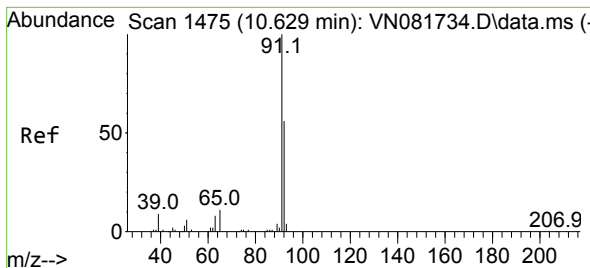


#51
4-Methyl-2-Pentanone
Concen: 1.680 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15



Tgt Ion: 43 Resp: 6016
Ion Ratio Lower Upper
43 100
58 47.8 33.2 49.8





#52

Toluene

Concen: 0.435 ug/l

RT: 10.629 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Instrument :

MSVOA_N

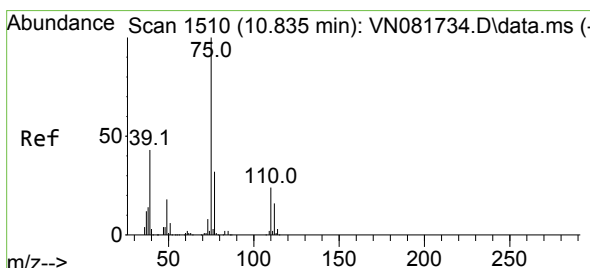
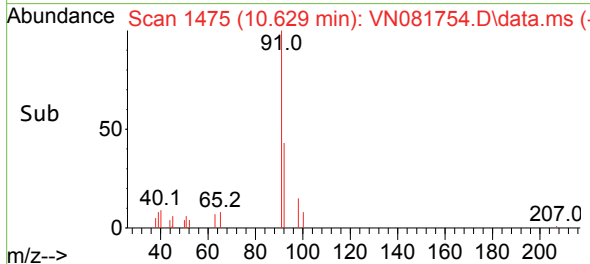
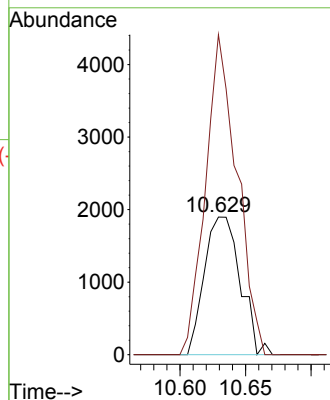
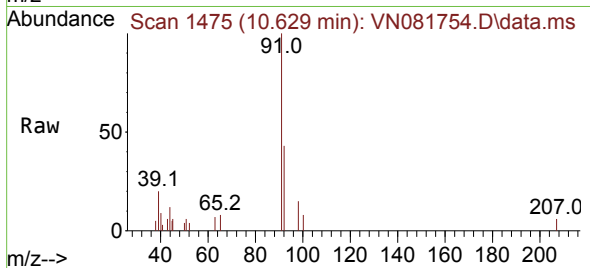
ClientSampleId :

Tgt Ion: 92 Resp: 3617

Ion Ratio Lower Upper

92 100

91 203.9 136.7 205.1



#53

t-1,3-Dichloropropene

Concen: 0.229 ug/l

RT: 10.723 min Scan# 1491

Delta R.T. -0.112 min

Lab File: VN081754.D

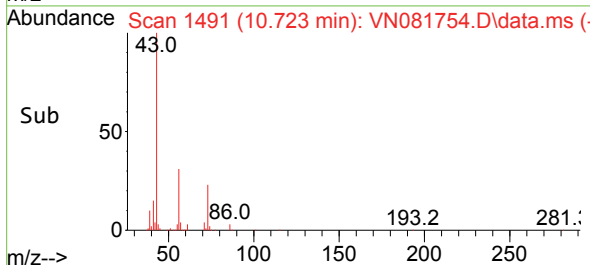
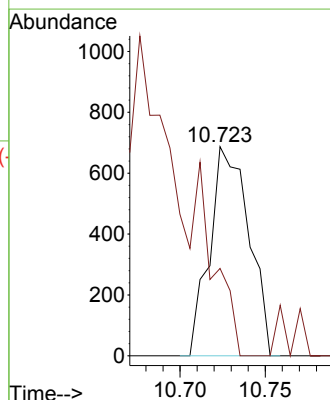
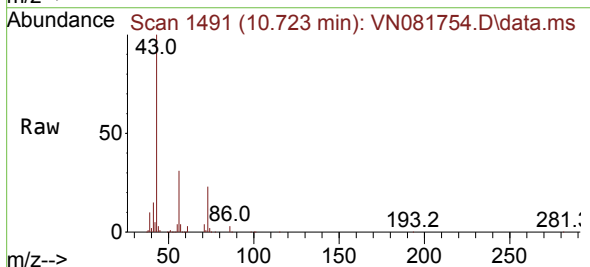
Acq: 16 Apr 2024 13:15

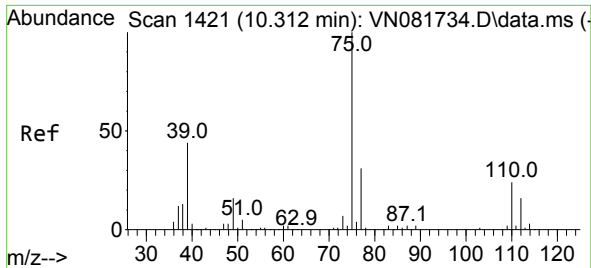
Tgt Ion: 75 Resp: 1098

Ion Ratio Lower Upper

75 100

77 17.6 25.4 38.0#

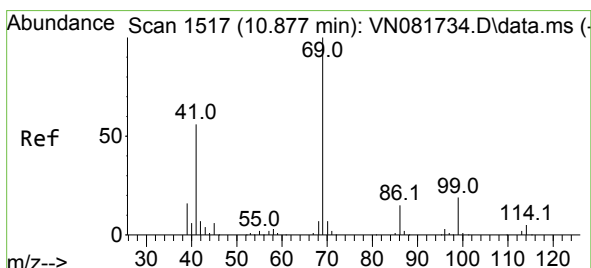
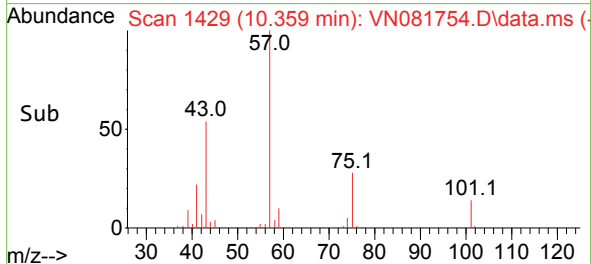
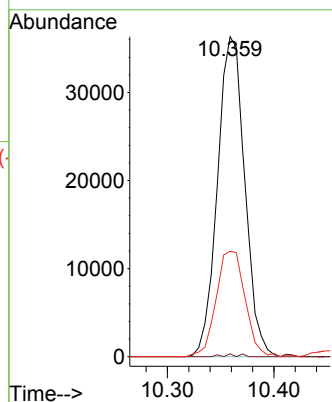
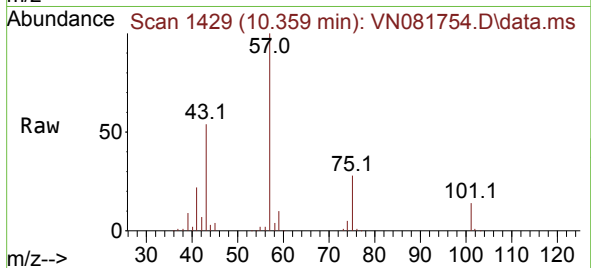




#54
 cis-1,3-Dichloropropene
 Concen: 12.661 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN081754.D
 Acq: 16 Apr 2024 13:15

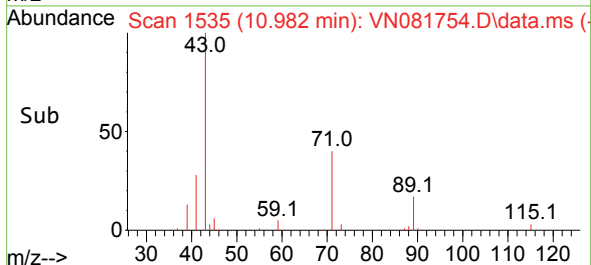
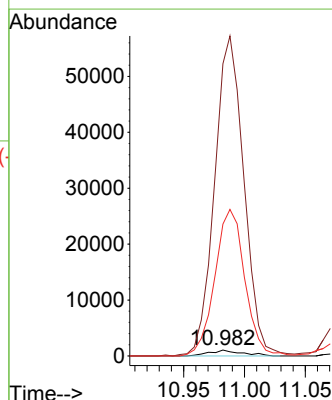
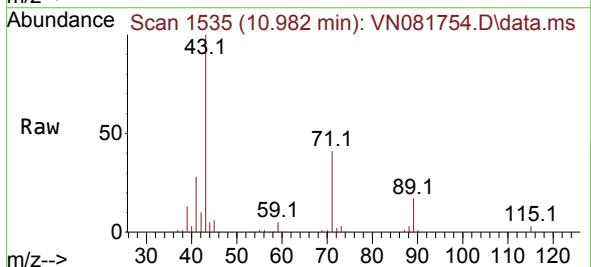
Instrument :
 MSVOA_N
 ClientSampleId :

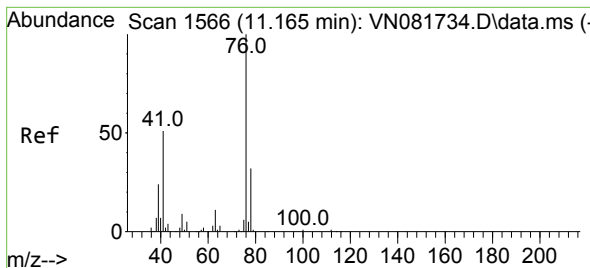
Tgt Ion: 75 Resp: 64602
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.0 37.4#
 39 33.0 34.8 52.2#



#56
 Ethyl methacrylate
 Concen: 0.457 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.105 min
 Lab File: VN081754.D
 Acq: 16 Apr 2024 13:15

Tgt Ion: 69 Resp: 1962
 Ion Ratio Lower Upper
 69 100
 41 4891.0 46.6 70.0#
 39 2288.4 26.5 39.7#





#57

1,3-Dichloropropane

Concen: 1.643 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

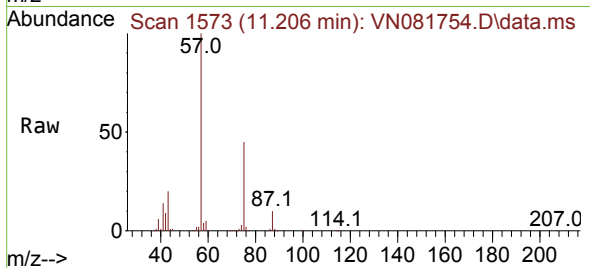
Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :

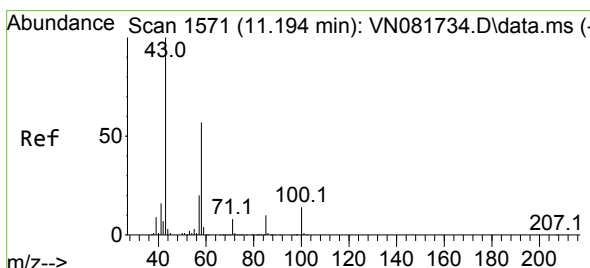
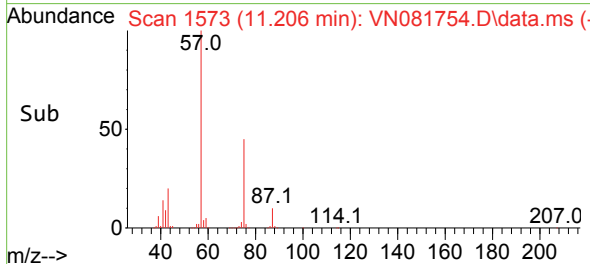
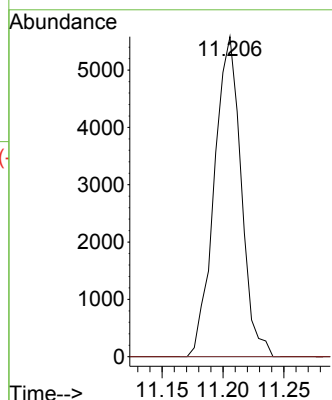


Tgt Ion: 76 Resp: 8583

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 55.128 ug/l

RT: 11.170 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN081754.D

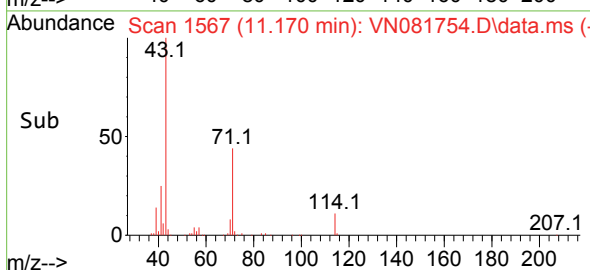
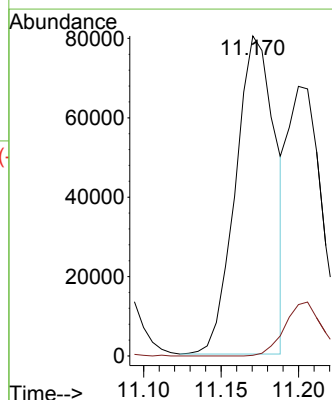
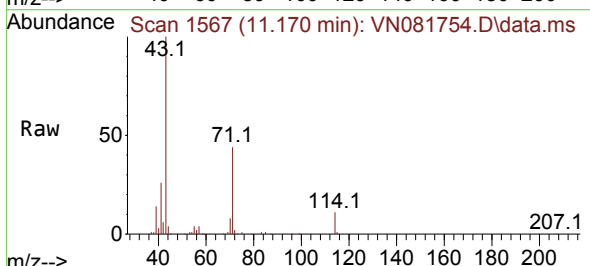
Acq: 16 Apr 2024 13:15

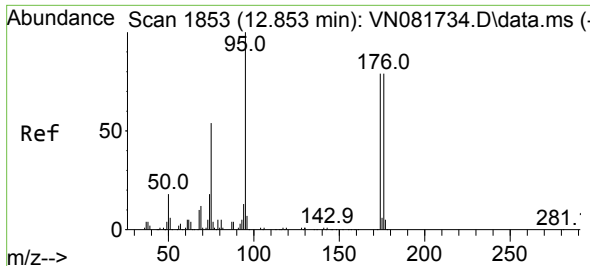
Tgt Ion: 43 Resp: 142898

Ion Ratio Lower Upper

43 100

58 0.0 28.3 84.9#

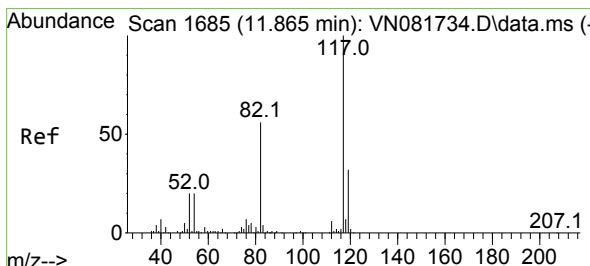
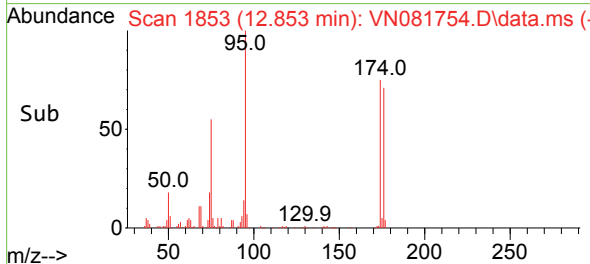
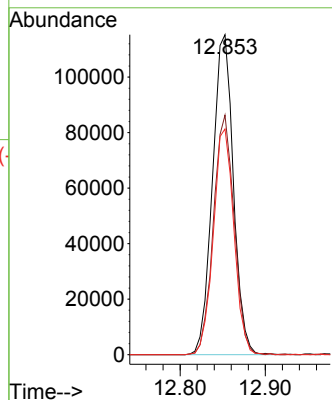
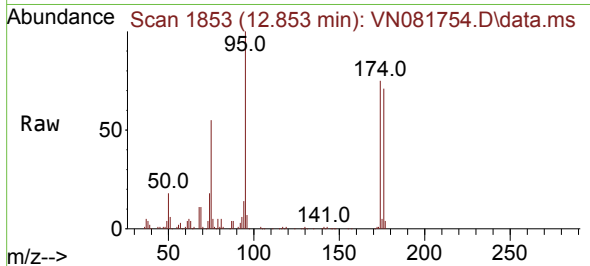




#62
4-Bromofluorobenzene
Concen: 51.724 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

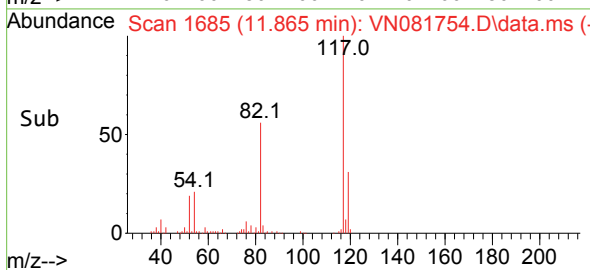
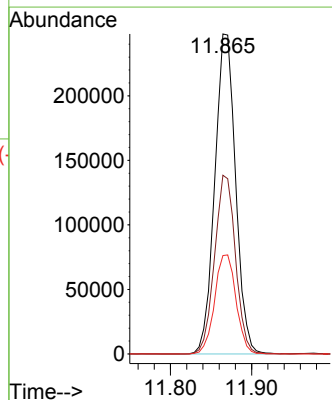
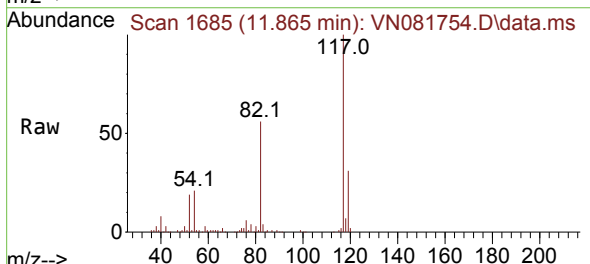
Instrument :
MSVOA_N
ClientSampleId :

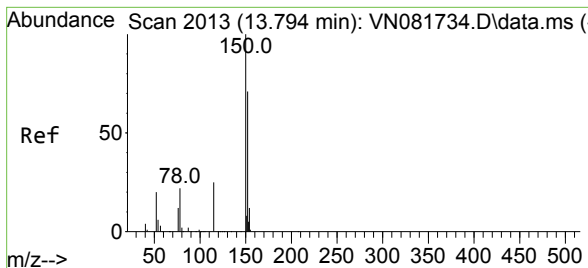
Tgt Ion: 95 Resp: 196262
Ion Ratio Lower Upper
95 100
174 74.5 0.0 160.6
176 69.6 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN081754.D
Acq: 16 Apr 2024 13:15

Tgt Ion: 117 Resp: 442423
Ion Ratio Lower Upper
117 100
82 55.9 44.6 66.8
119 30.8 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

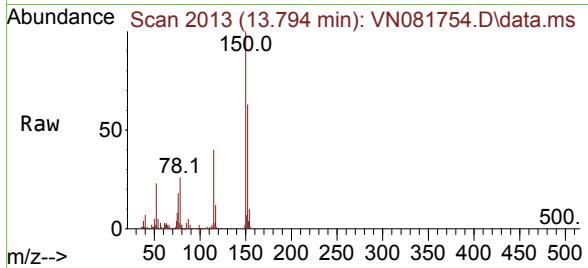
Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Instrument :

MSVOA_N

ClientSampleId :



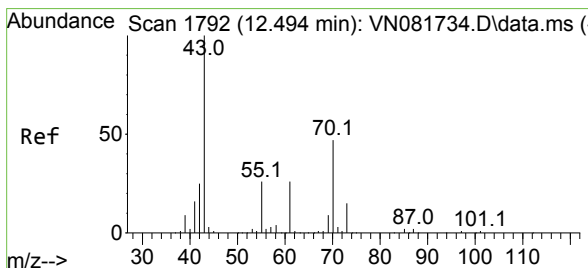
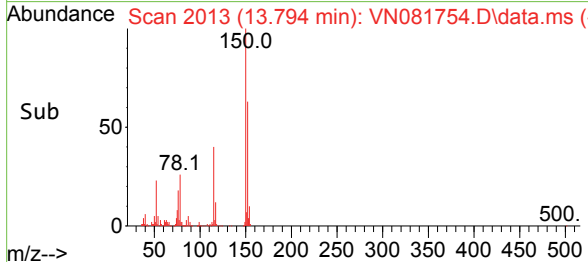
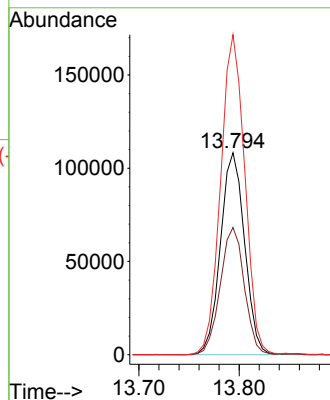
Tgt Ion:152 Resp: 180853

Ion Ratio Lower Upper

152 100

115 62.9 30.4 91.3

150 158.7 0.0 353.2



#74

N-ethyl acetate

Concen: 0.342 ug/l

RT: 12.476 min Scan# 1789

Delta R.T. -0.018 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Tgt Ion: 43 Resp: 1686

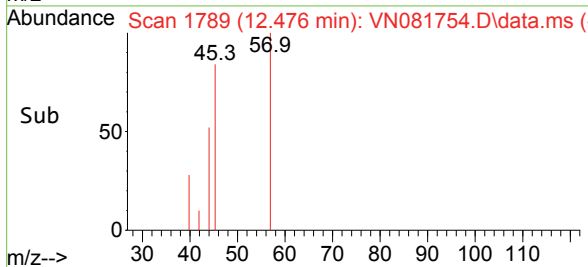
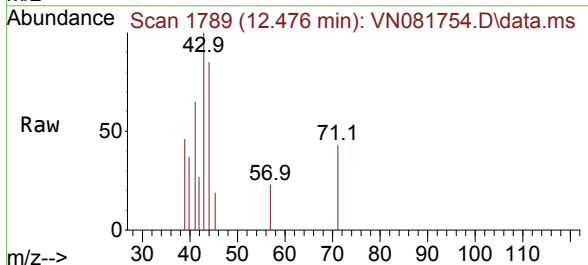
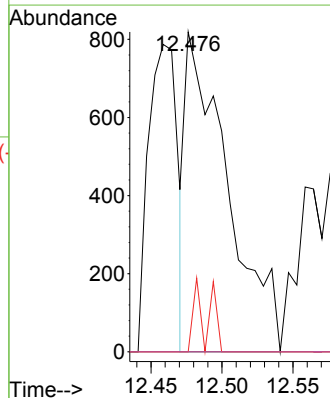
Ion Ratio Lower Upper

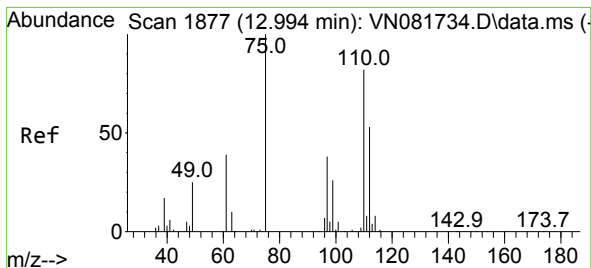
43 100

70 0.0 39.0 58.4#

55 7.7 21.3 31.9#

61 0.0 20.5 30.7#





#76

1,2,3-Trichloropropane

Concen: 30.325 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

Instrument :

MSVOA_N

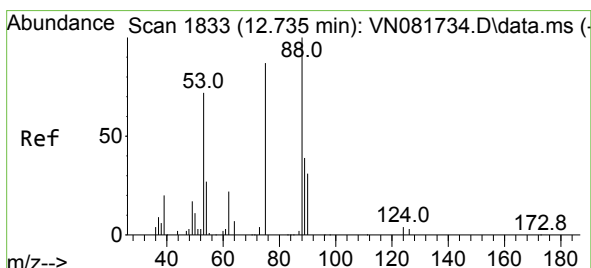
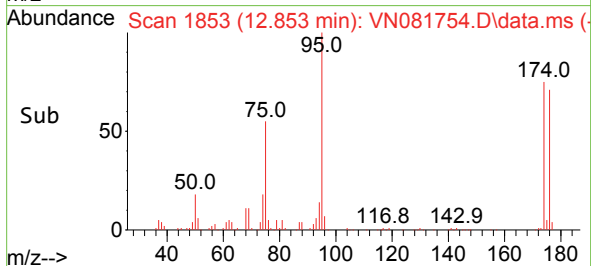
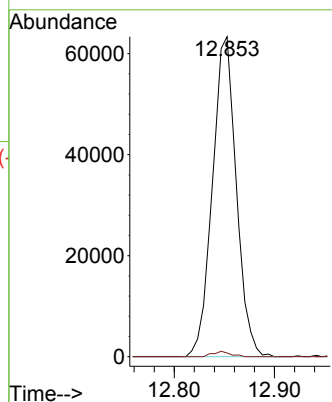
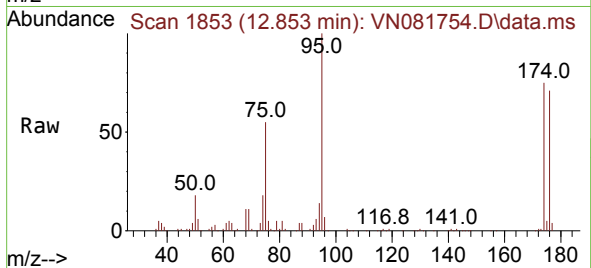
ClientSampleId :

Tgt Ion: 75 Resp: 104663

Ion Ratio Lower Upper

75 100

77 1.2 90.5 271.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.811 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN081754.D

Acq: 16 Apr 2024 13:15

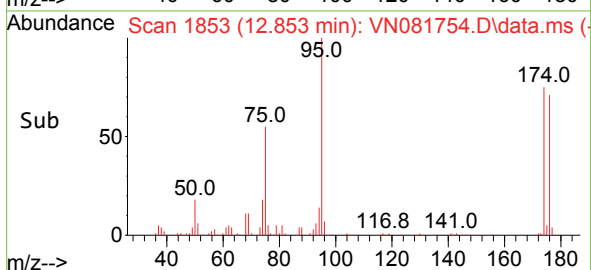
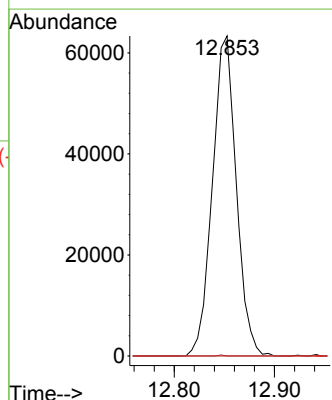
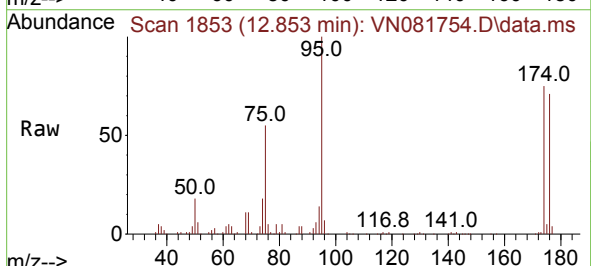
Tgt Ion: 75 Resp: 104663

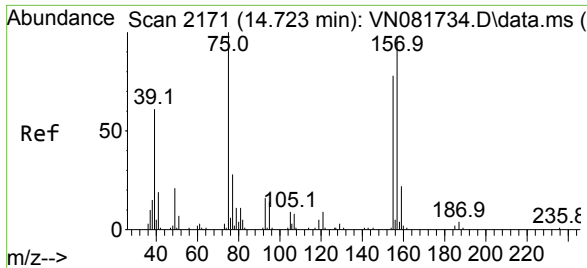
Ion Ratio Lower Upper

75 100

53 0.1 72.9 109.3#

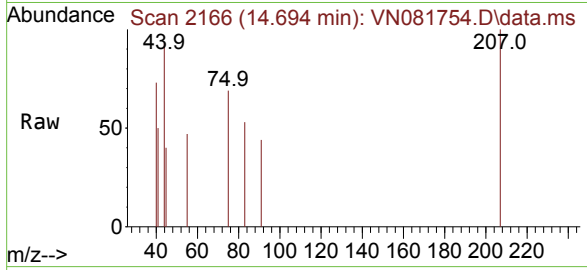
89 0.0 39.1 58.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.694 min Scan# 21
 Delta R.T. -0.029 min
 Lab File: VN081754.D
 Acq: 16 Apr 2024 13:15

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	75	Resp:	93
Ion	Ratio	Lower	Upper
75	100		
155	0.0	42.6	128.0#
157	0.0	53.0	159.0#

