

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051024\
 Data File : VN082083.D
 Acq On : 10 May 2024 20:33
 Operator : JC\MD
 Sample : PB160862TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 10 23:29:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042524W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 26 05:26:49 2024
 Response via : Initial Calibration

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

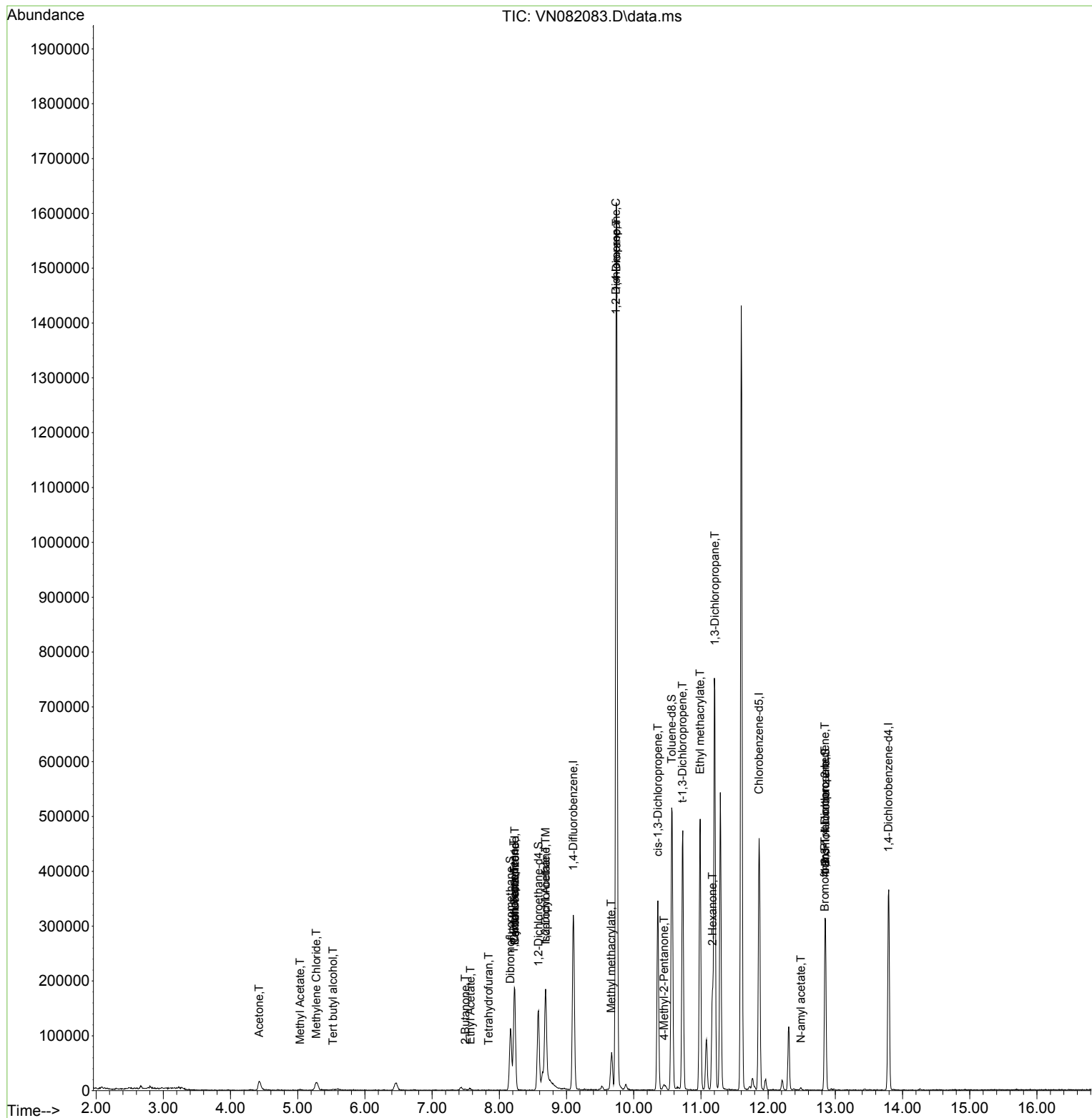
Internal Standards						
1) Pentafluorobenzene	8.230	168	121418	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	259169	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	240188	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	86270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	110922	54.129	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.260%	
35) Dibromofluoromethane	8.165	113	77764	49.835	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.680%	
50) Toluene-d8	10.565	98	340477	55.557	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 111.120%	
62) 4-Bromofluorobenzene	12.853	95	111532	46.038	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	= 92.080%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	196	Below Cal	#	3
11) Tert butyl alcohol	5.524	59	109	0.293	ug/l #	71
13) Acrolein	4.171	56	63	Below Cal	#	15
16) Acetone	4.424	43	31337	47.280	ug/l	97
18) Methyl Acetate	5.036	43	2869	1.382	ug/l #	51
20) Methylene Chloride	5.277	84	10555	6.010	ug/l #	77
25) 2-Butanone	7.495	43	3084	2.652	ug/l #	87
29) Tetrahydrofuran	7.842	42	292	0.350	ug/l #	64
31) Cyclohexane	8.224	56	4578	1.483	ug/l #	50
36) 1,1-Dichloropropene	8.218	75	13638	5.372	ug/l #	48
37) Ethyl Acetate	7.571	43	4764	1.736	ug/l #	90
38) Carbon Tetrachloride	8.230	117	13174	5.310	ug/l #	15
42) 1,2-Dichloroethane	8.689	62	1188	0.420	ug/l #	73
43) Isopropyl Acetate	8.689	43	246305	47.725	ug/l #	78
45) 1,2-Dichloropropane	9.736	63	1752	0.878	ug/l #	45
48) Methyl methacrylate	9.665	41	4978	2.020	ug/l #	35
49) 1,4-Dioxane	9.741	88	168	4.486	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	12756	4.391	ug/l #	67
53) t-1,3-Dichloropropene	10.724	75	1006	0.318	ug/l #	88
54) cis-1,3-Dichloropropene	10.359	75	62226	19.086	ug/l #	70
56) Ethyl methacrylate	10.988	69	1555	0.455	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7332	2.298	ug/l #	42
59) 2-Hexanone	11.171	43	151331	69.991	ug/l #	23
71) Bromoform	12.841	173	293	0.219	ug/l #	1
74) N-amyl acetate	12.488	43	2257	0.529	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	64457	28.817	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	64457	59.049	ug/l #	12

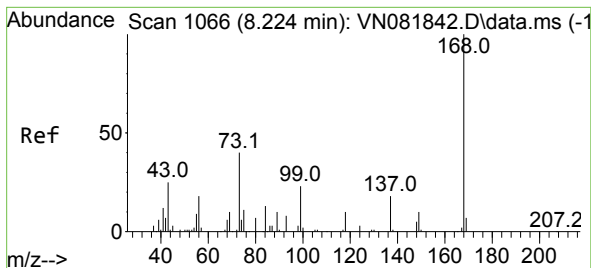
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 26 05:26:49 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

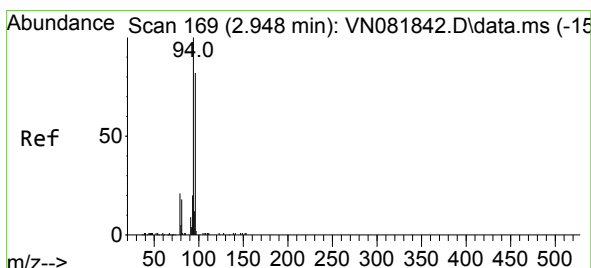
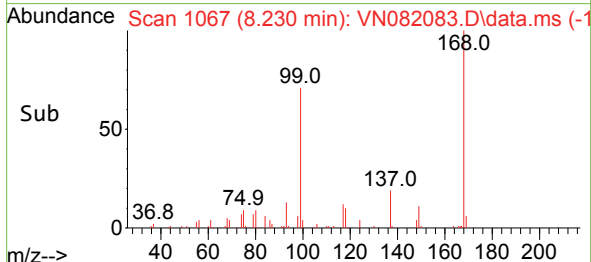
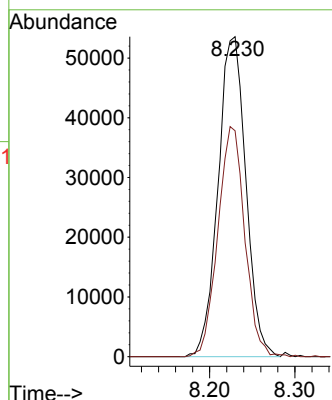
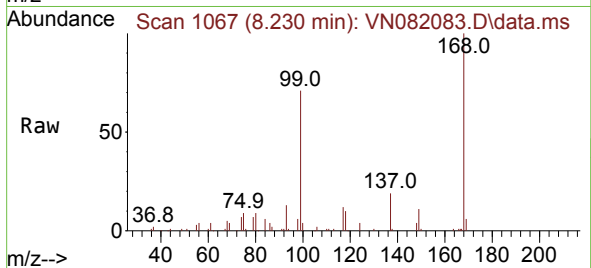
ClientSampleId :

Tgt Ion:168 Resp: 121418

Ion Ratio Lower Upper

168 100

99 70.6 48.2 72.4



#5

Bromomethane

Concen: Below Cal

RT: 2.971 min Scan# 173

Delta R.T. 0.023 min

Lab File: VN082083.D

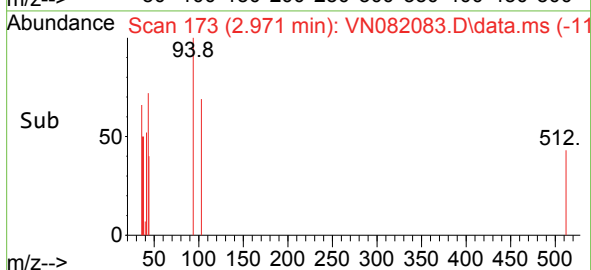
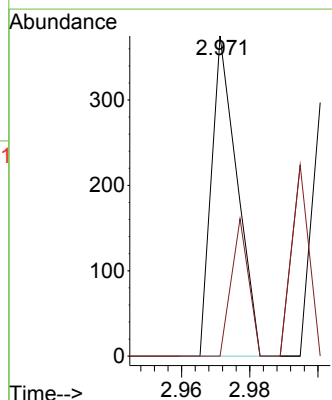
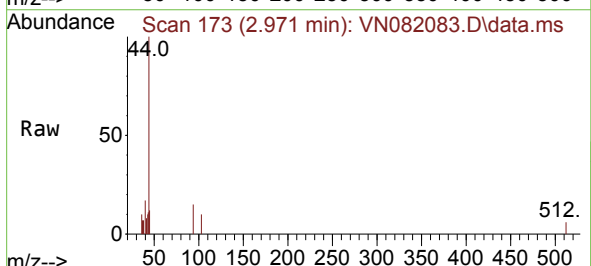
Acq: 10 May 2024 20:33

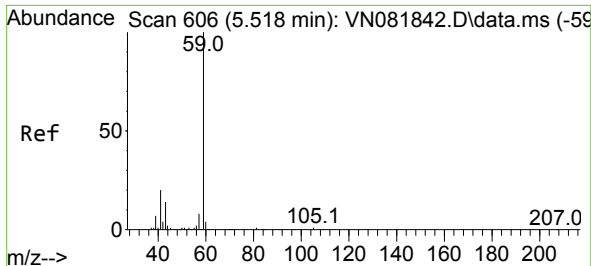
Tgt Ion: 94 Resp: 196

Ion Ratio Lower Upper

94 100

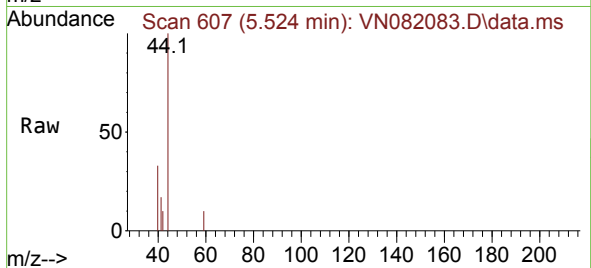
96 0.0 74.8 112.2#



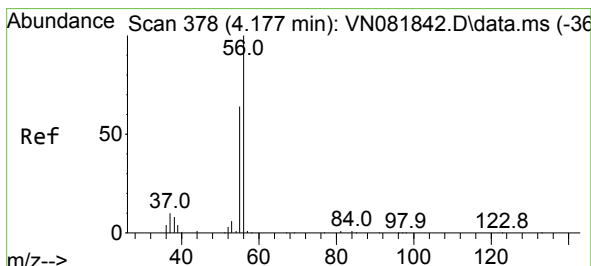
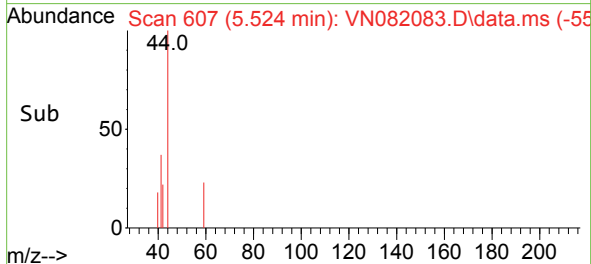
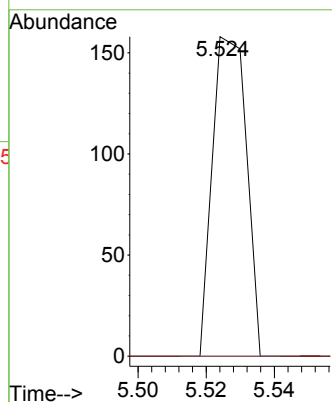


#11
Tert butyl alcohol
Concen: 0.293 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Instrument :
MSVOA_N
ClientSampleId :

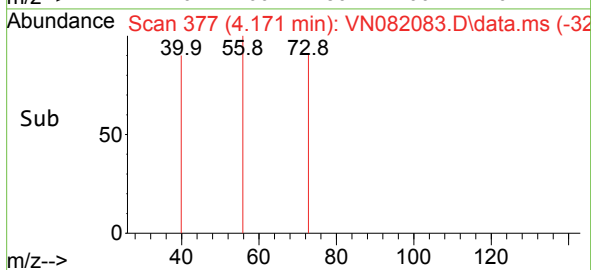
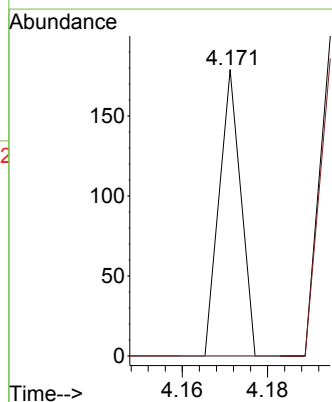
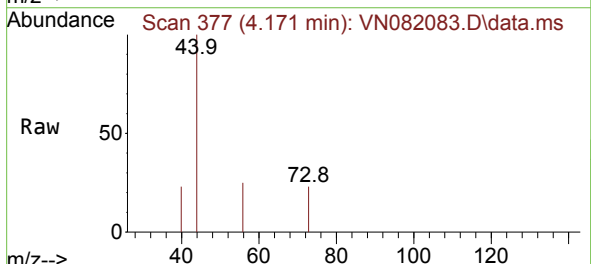


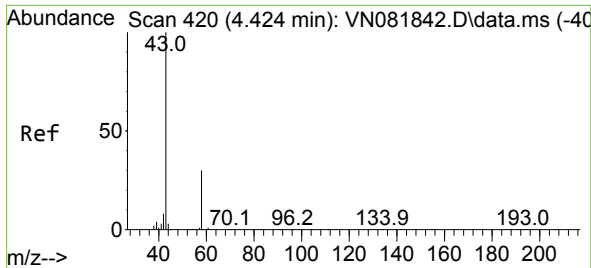
Tgt Ion: 59 Resp: 109
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



#13
Acrolein
Concen: Below Cal
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Tgt Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.8#

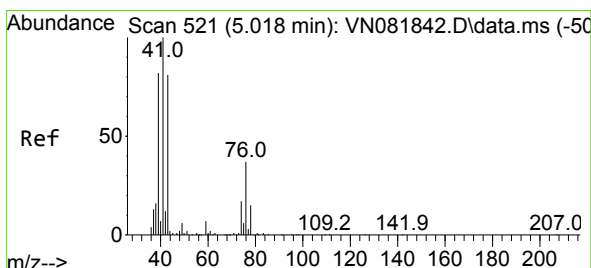
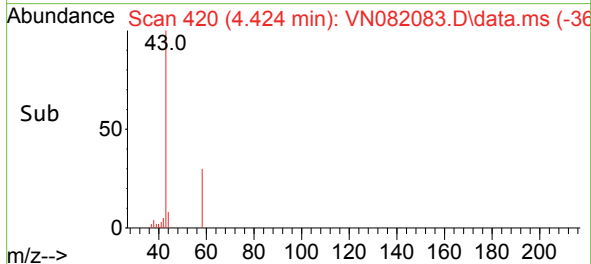
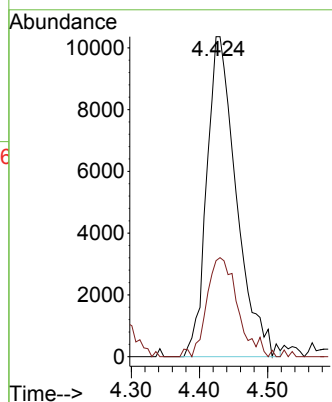
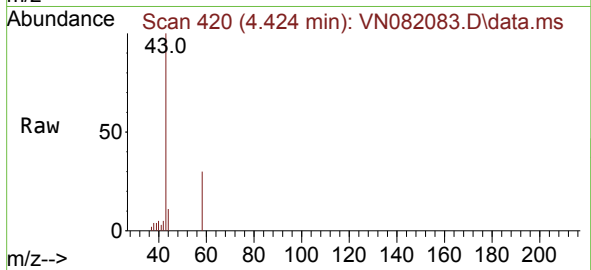




#16
Acetone
Concen: 47.280 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

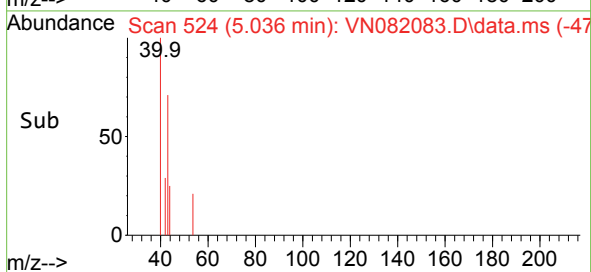
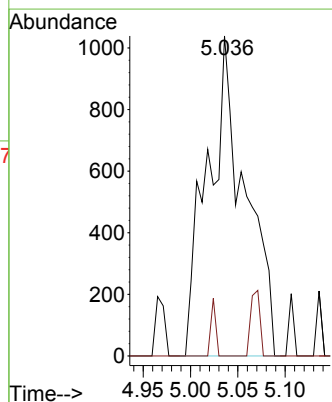
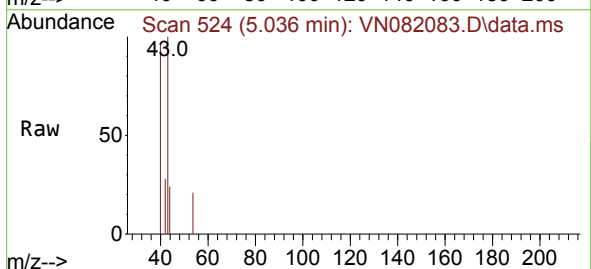
Instrument :
MSVOA_N
ClientSampleId :

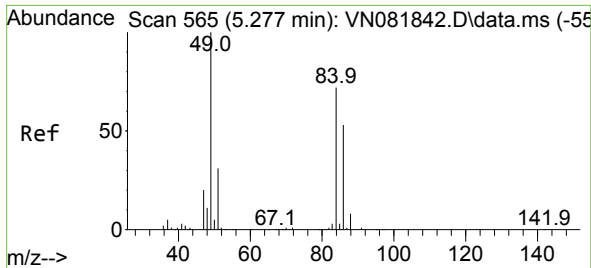
Tgt Ion: 43 Resp: 31337
Ion Ratio Lower Upper
43 100
58 30.0 25.2 37.8



#18
Methyl Acetate
Concen: 1.382 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

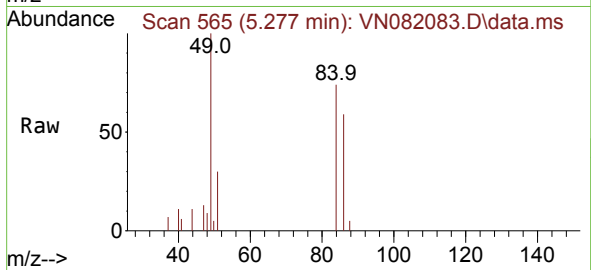
Tgt Ion: 43 Resp: 2869
Ion Ratio Lower Upper
43 100
74 2.3 22.2 33.2#



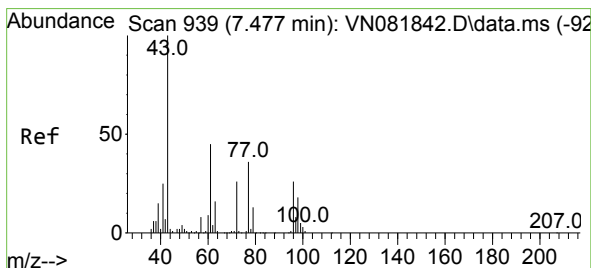
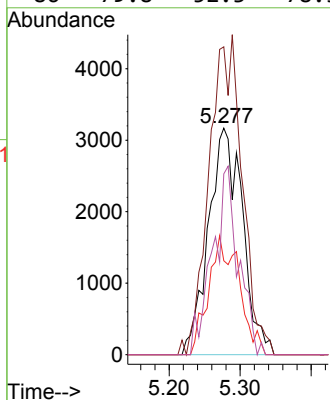
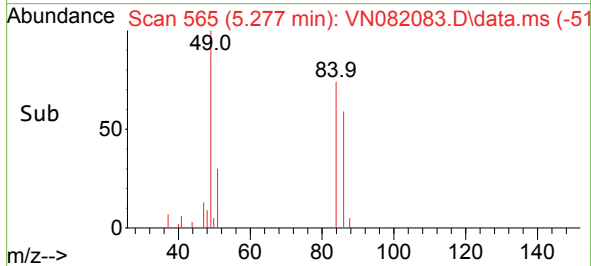


#20
Methylene Chloride
Concen: 6.010 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Instrument :
MSVOA_N
ClientSampleId :

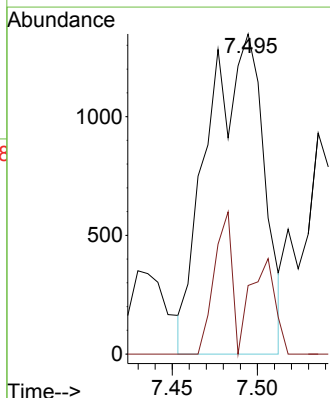
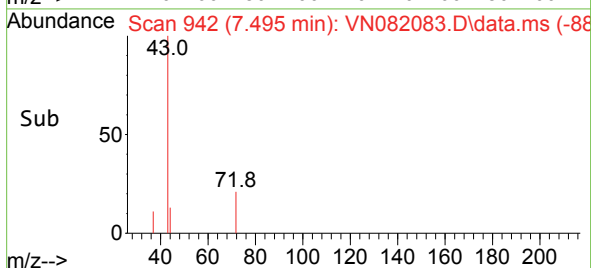
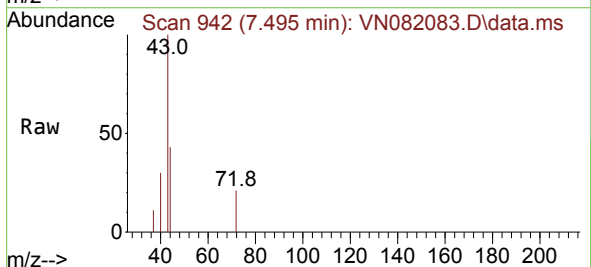


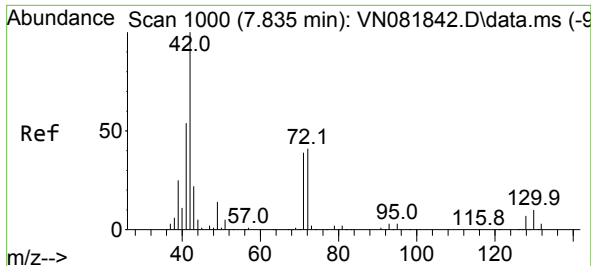
Tgt Ion:	84	Resp:	10555
Ion	Ratio	Lower	Upper
84	100		
49	135.8	84.9	127.3#
51	41.4	27.0	40.6#
86	79.8	52.3	78.5#



#25
2-Butanone
Concen: 2.652 ug/l
RT: 7.495 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Tgt Ion:	43	Resp:	3084
Ion	Ratio	Lower	Upper
43	100		
72	24.4	25.3	37.9#





#29

Tetrahydrofuran

Concen: 0.350 ug/l

RT: 7.842 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

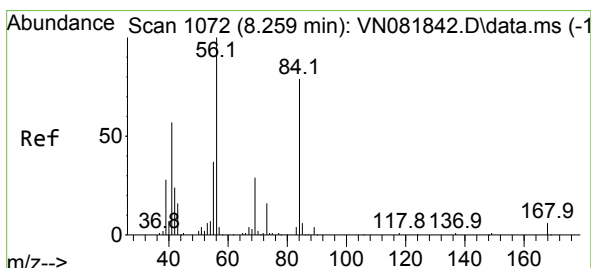
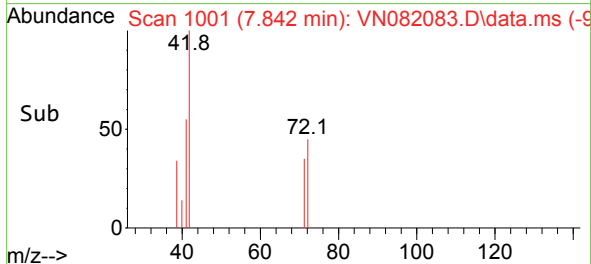
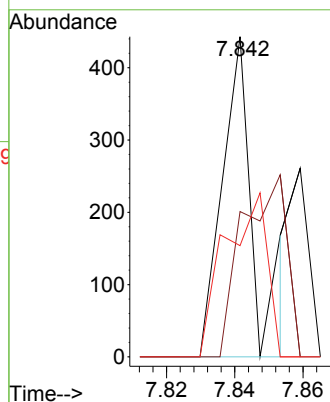
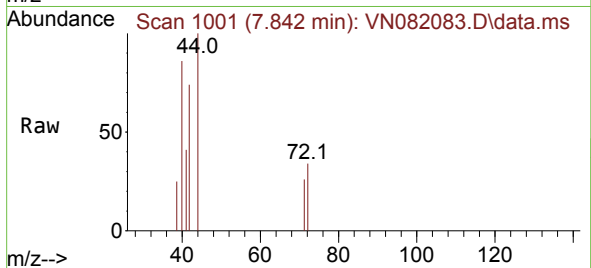
Tgt Ion: 42 Resp: 292

Ion Ratio Lower Upper

42 100

72 77.4 39.3 58.9#

71 66.4 37.4 56.0#



#31

Cyclohexane

Concen: 1.483 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.035 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

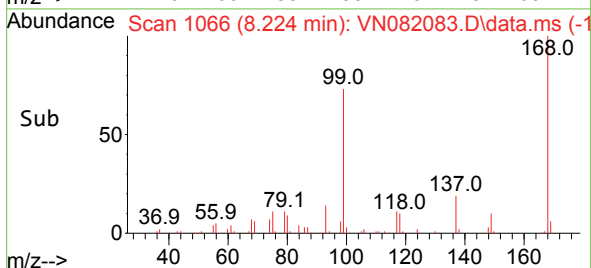
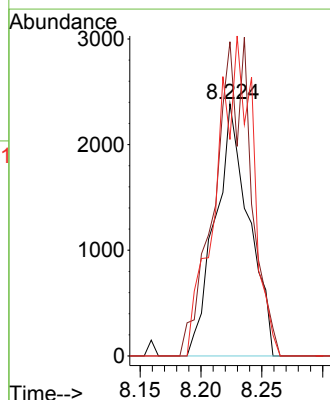
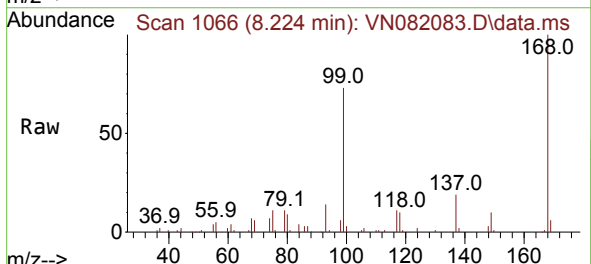
Tgt Ion: 56 Resp: 4578

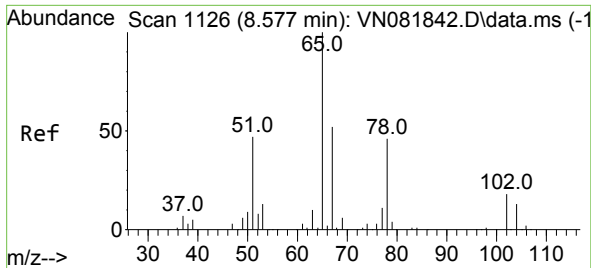
Ion Ratio Lower Upper

56 100

69 124.6 24.4 36.6#

84 85.9 77.0 115.4





#33

1,2-Dichloroethane-d4

Concen: 54.129 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

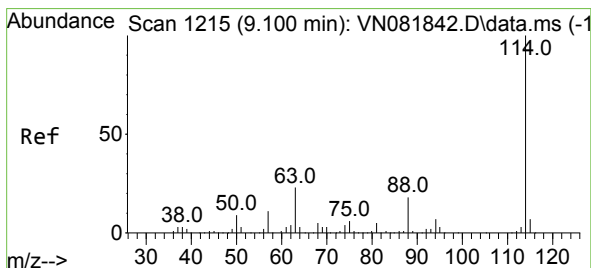
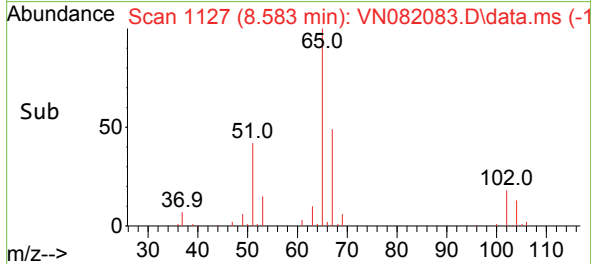
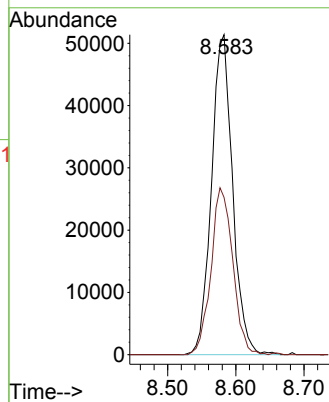
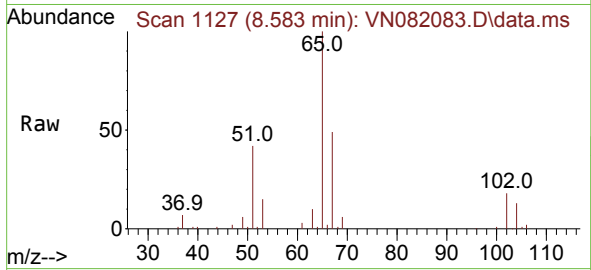
ClientSampleId :

Tgt Ion: 65 Resp: 110922

Ion Ratio Lower Upper

65 100

67 53.7 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

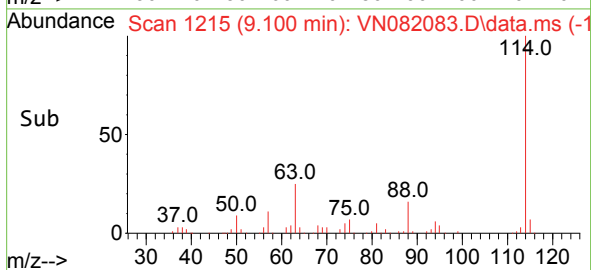
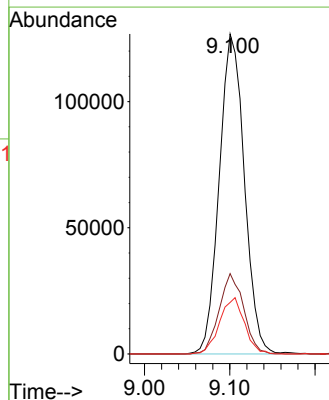
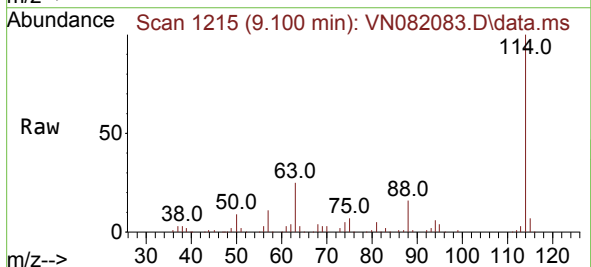
Tgt Ion: 114 Resp: 259169

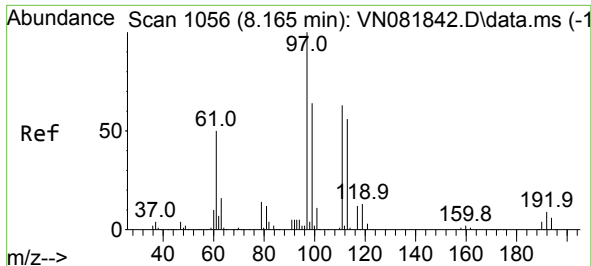
Ion Ratio Lower Upper

114 100

63 25.1 0.0 41.0

88 16.1 0.0 31.4

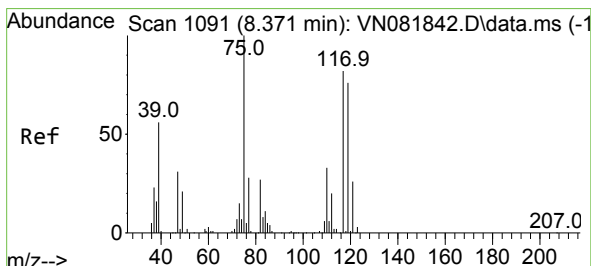
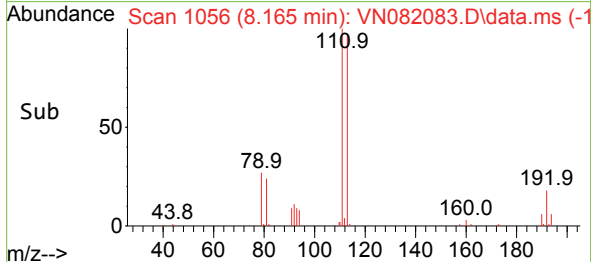
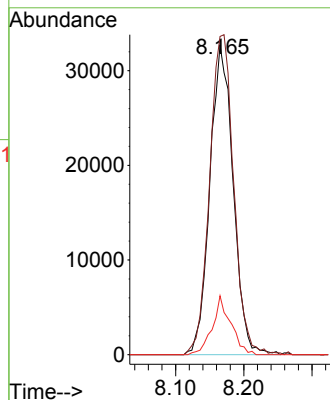
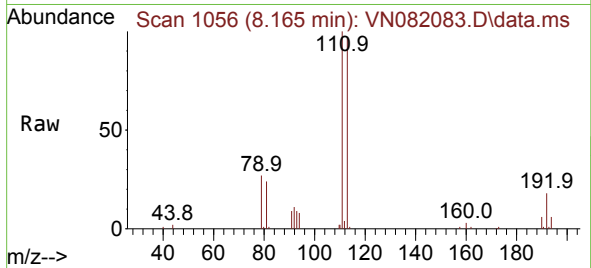




#35
Dibromofluoromethane
Concen: 49.835 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

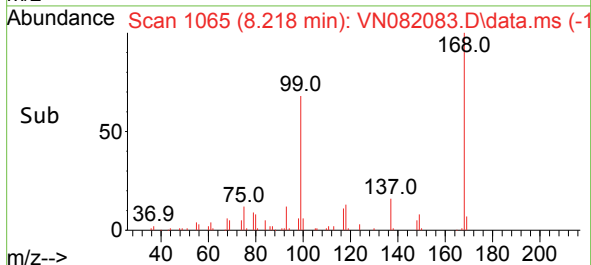
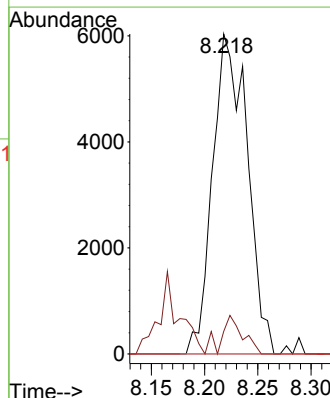
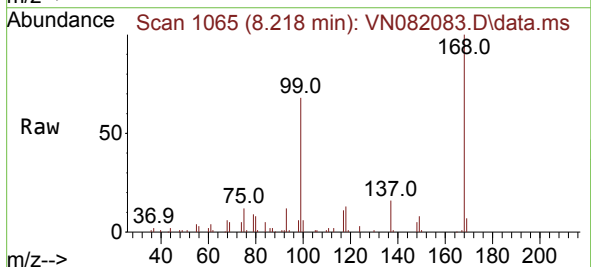
Instrument :
MSVOA_N
ClientSampleId :

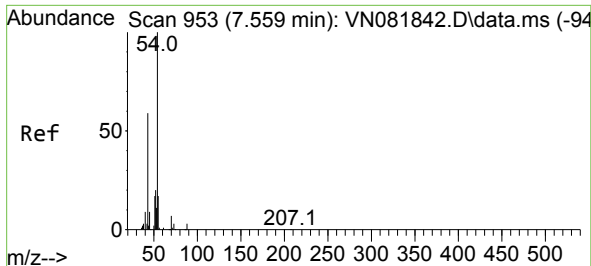
Tgt Ion:113 Resp: 77764
Ion Ratio Lower Upper
113 100
111 106.6 83.4 125.2
192 15.0 14.0 21.0



#36
1,1-Dichloropropene
Concen: 5.372 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

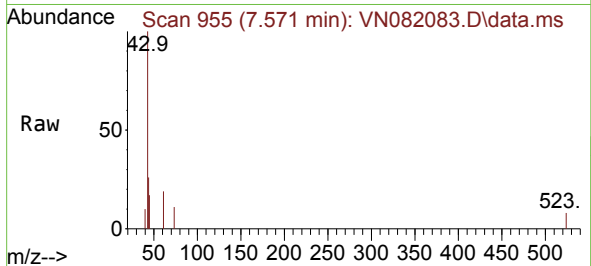
Tgt Ion: 75 Resp: 13638
Ion Ratio Lower Upper
75 100
110 7.5 17.8 53.5#
77 0.0 25.0 37.4#



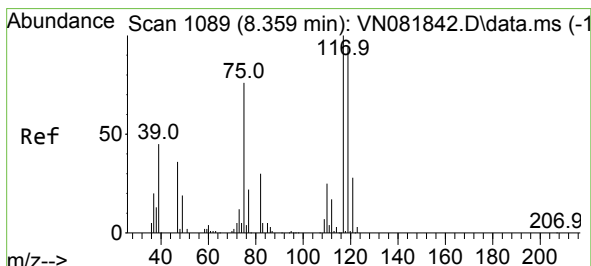
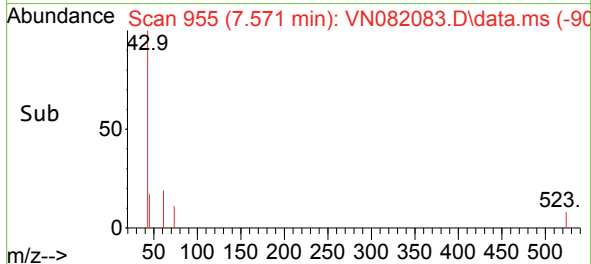
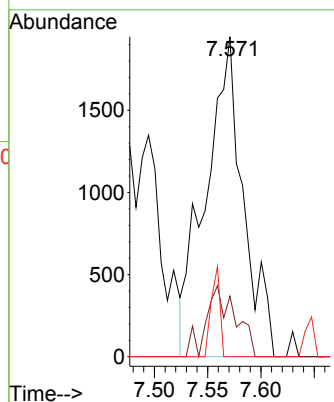


#37
Ethyl Acetate
Concen: 1.736 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Instrument :
MSVOA_N
ClientSampleId :

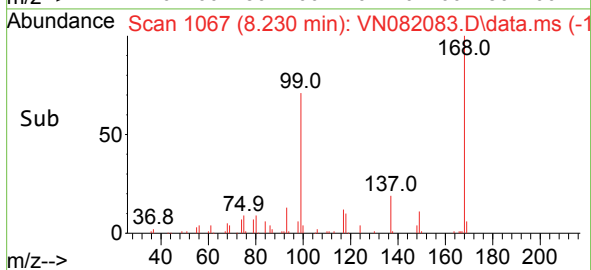
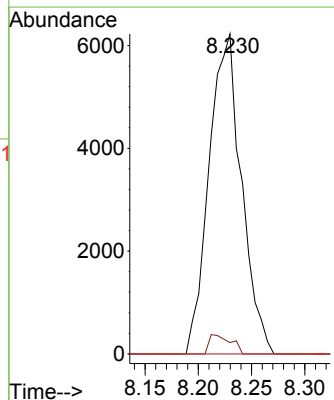
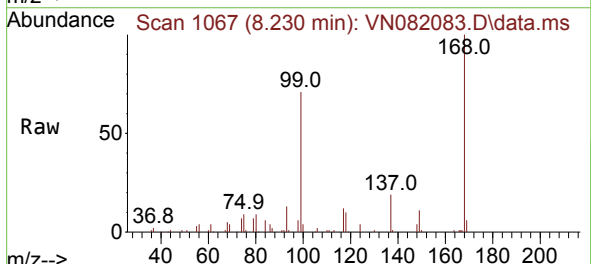


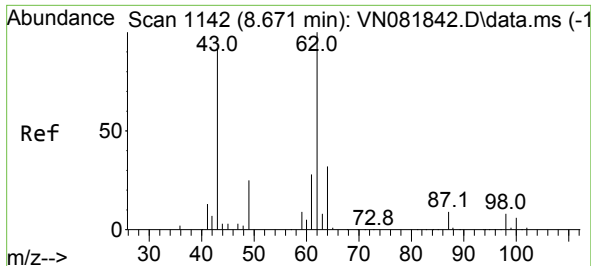
Tgt Ion: 43 Resp: 4764
Ion Ratio Lower Upper
43 100
61 17.4 11.3 16.9#
70 6.6 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.310 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Tgt Ion: 117 Resp: 13174
Ion Ratio Lower Upper
117 100
119 3.5 76.5 114.7#
121 0.0 23.9 35.9#





#42

1,2-Dichloroethane

Concen: 0.420 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

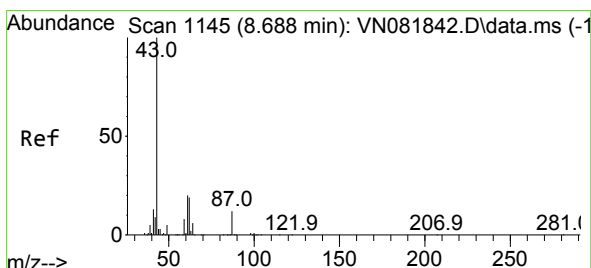
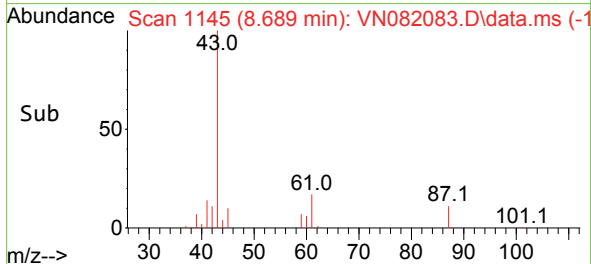
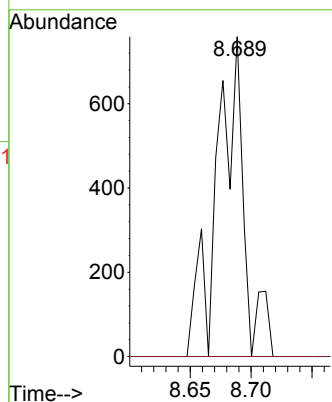
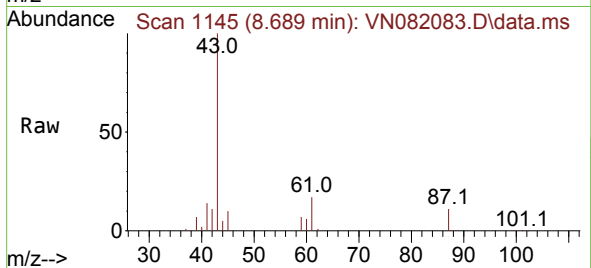
ClientSampleId :

Tgt Ion: 62 Resp: 1188

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 47.725 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

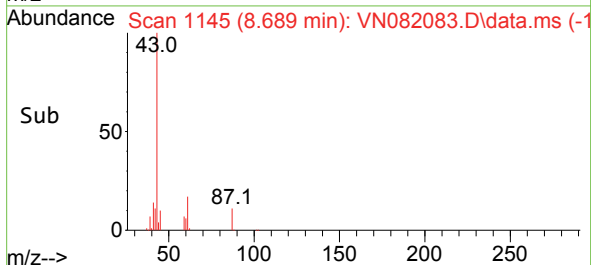
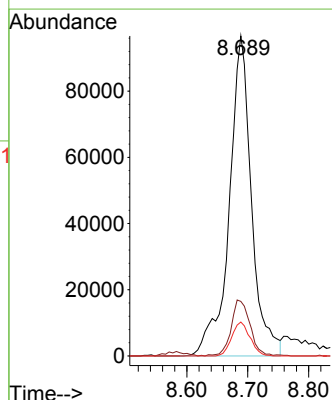
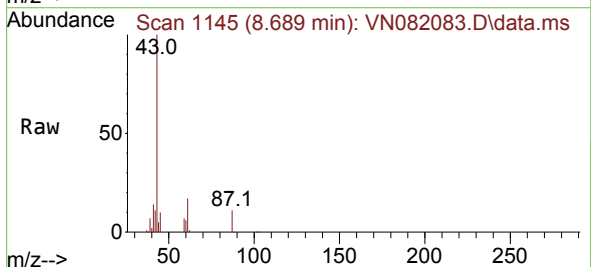
Tgt Ion: 43 Resp: 246305

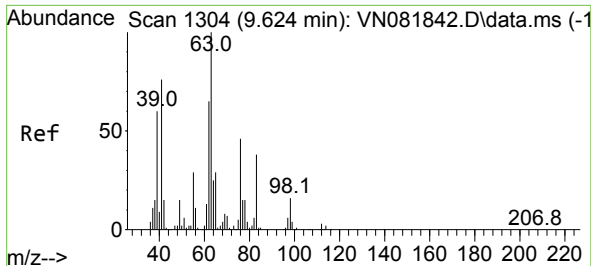
Ion Ratio Lower Upper

43 100

61 14.9 22.8 34.2#

87 8.6 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.878 ug/l

RT: 9.736 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

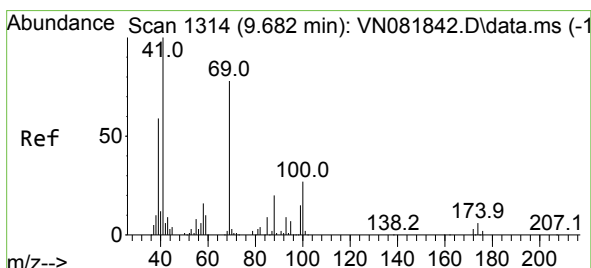
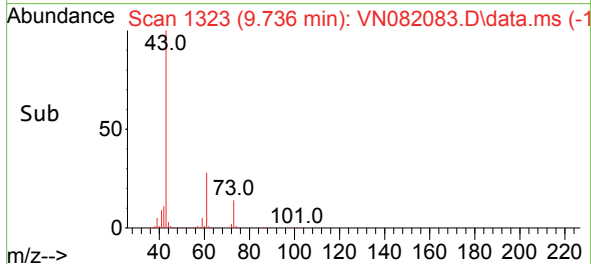
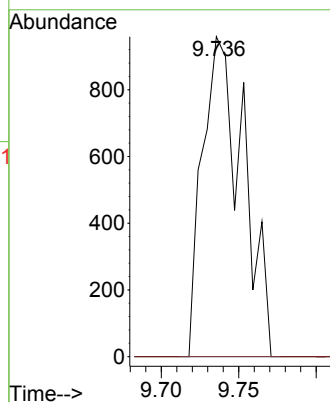
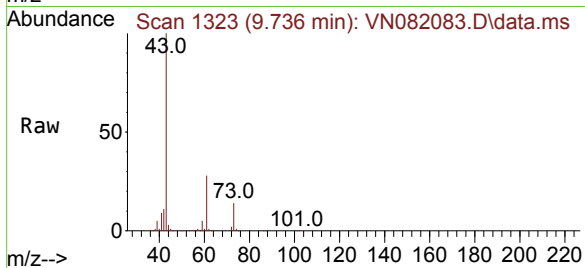
ClientSampleId :

Tgt Ion: 63 Resp: 1752

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



#48

Methyl methacrylate

Concen: 2.020 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.017 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

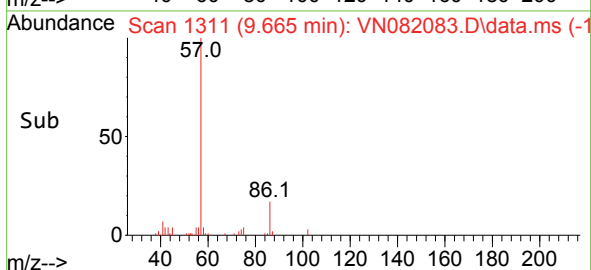
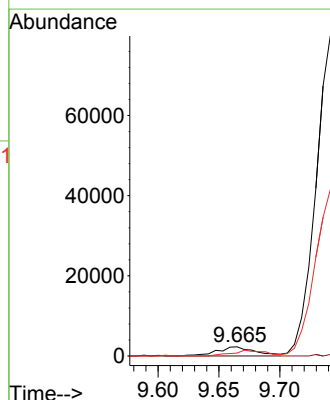
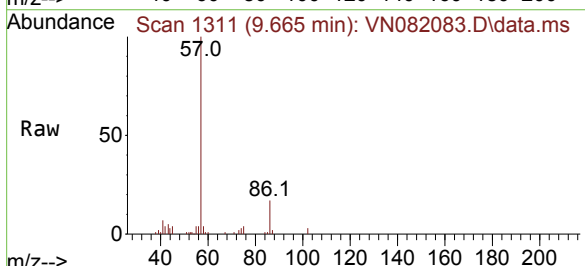
Tgt Ion: 41 Resp: 4978

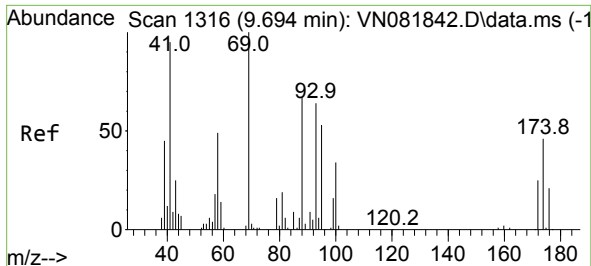
Ion Ratio Lower Upper

41 100

69 0.0 77.9 116.9#

39 53.9 50.9 76.3





#49

1,4-Dioxane

Concen: 4.486 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.047 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

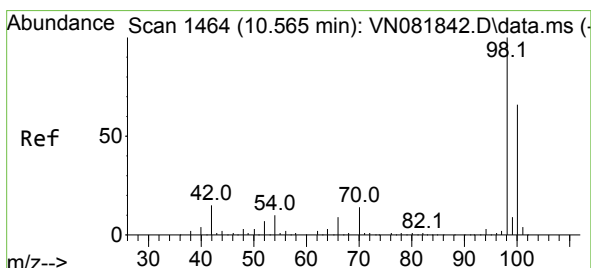
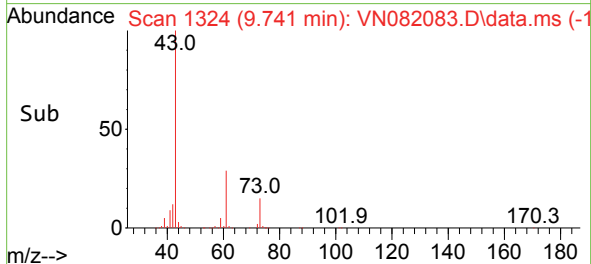
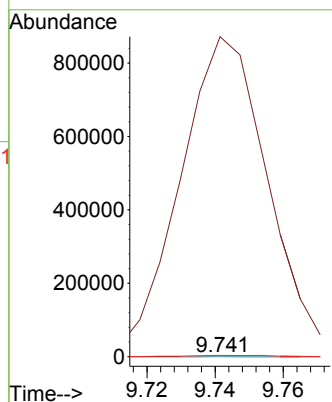
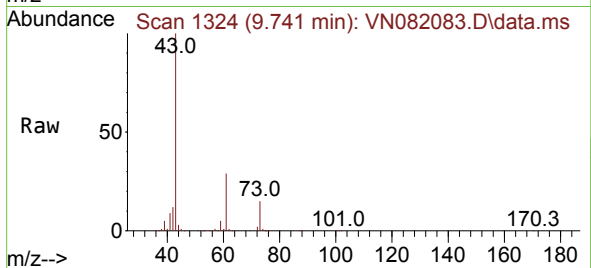
Tgt Ion: 88 Resp: 168

Ion Ratio Lower Upper

88 100

43 936347.6 19.0 28.6#

58 3888.7 50.6 76.0#



#50

Toluene-d8

Concen: 55.557 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN082083.D

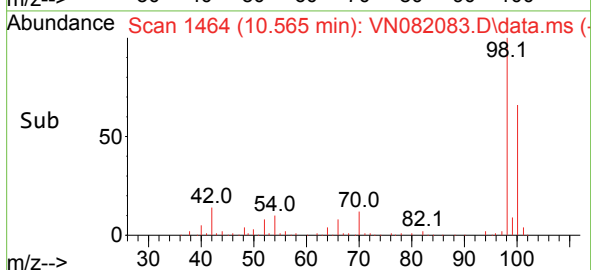
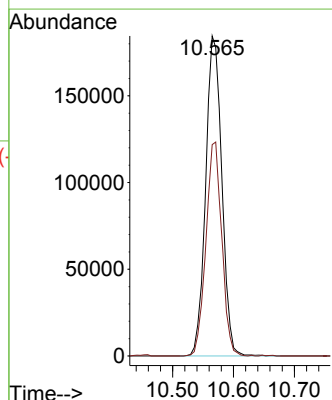
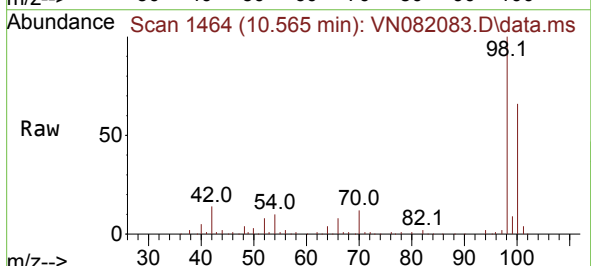
Acq: 10 May 2024 20:33

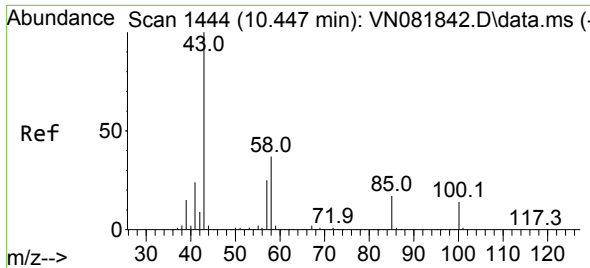
Tgt Ion: 98 Resp: 340477

Ion Ratio Lower Upper

98 100

100 65.5 51.8 77.6

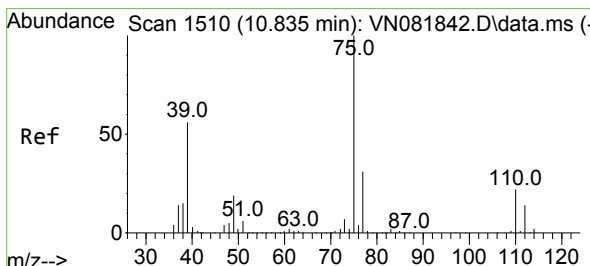
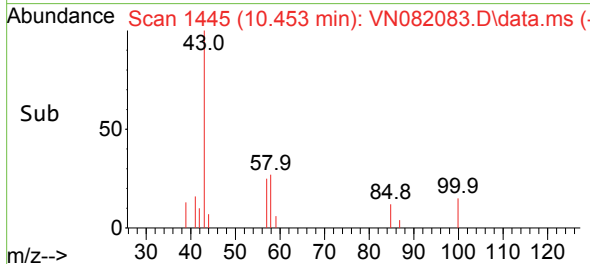
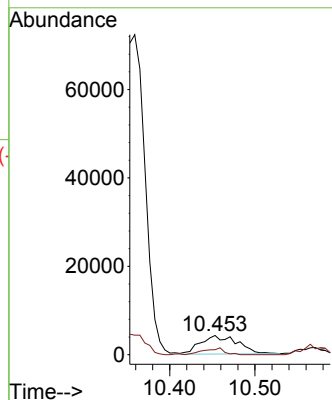
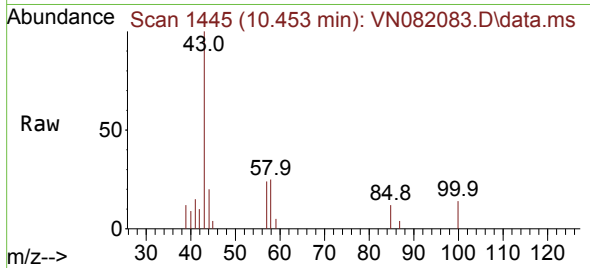




#51
4-Methyl-2-Pentanone
Concen: 4.391 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

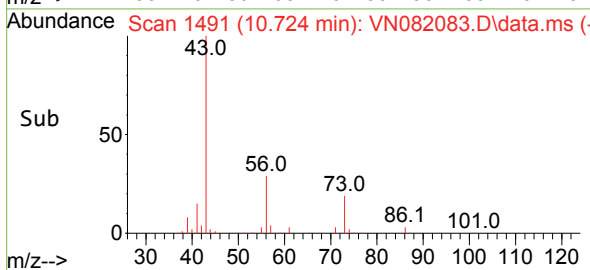
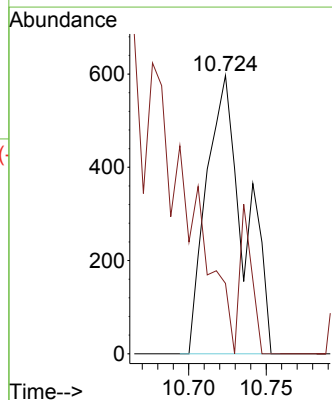
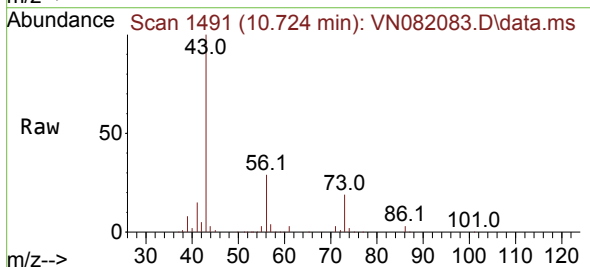
Instrument :
MSVOA_N
ClientSampleId :

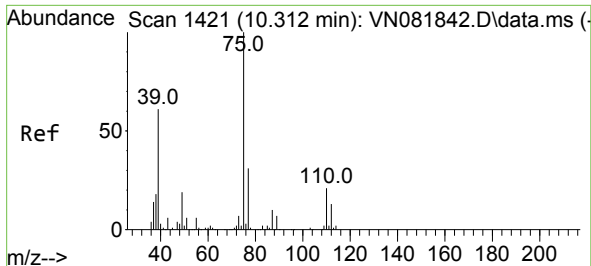
Tgt Ion: 43 Resp: 12756
Ion Ratio Lower Upper
43 100
58 21.0 33.2 49.8#



#53
t-1,3-Dichloropropene
Concen: 0.318 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Tgt Ion: 75 Resp: 1006
Ion Ratio Lower Upper
75 100
77 25.3 25.4 38.0#

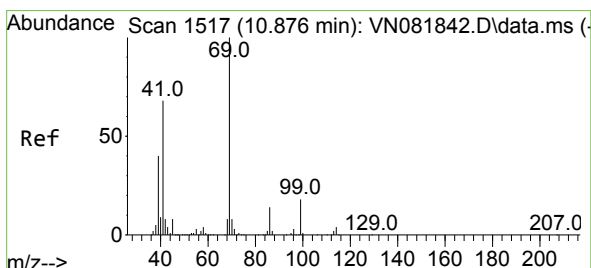
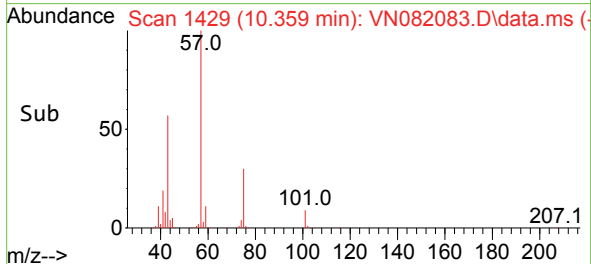
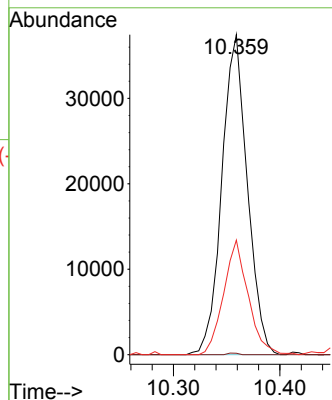
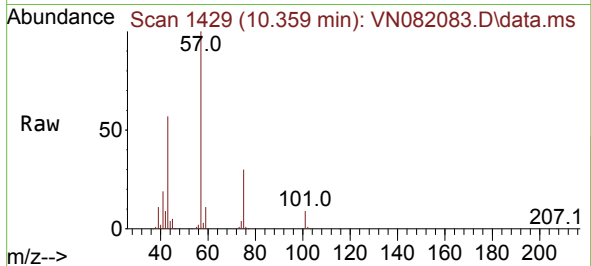




#54
cis-1,3-Dichloropropene
Concen: 19.086 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

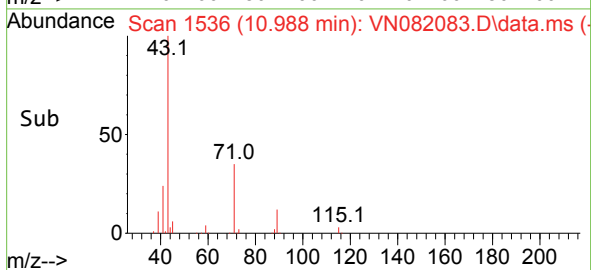
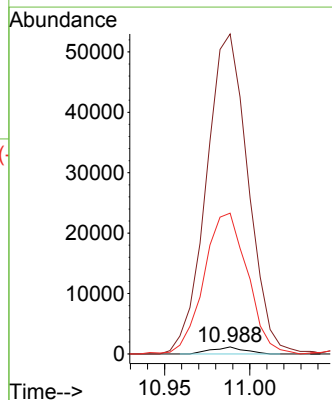
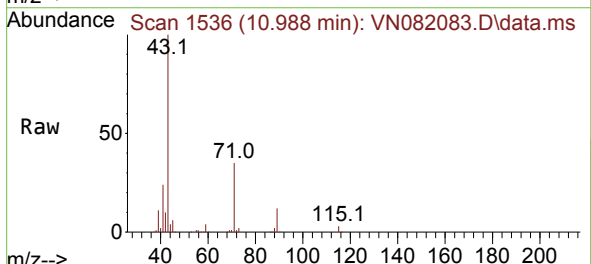
Instrument :
MSVOA_N
ClientSampleId :

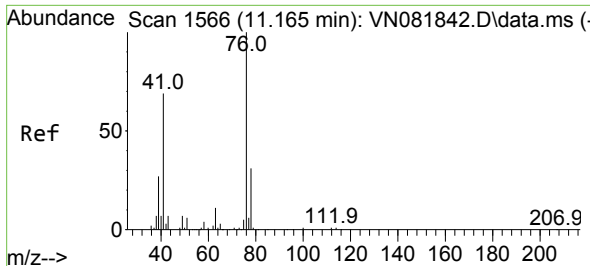
Tgt Ion: 75 Resp: 62226
Ion Ratio Lower Upper
75 100
77 0.4 25.0 37.4#
39 35.8 34.8 52.2



#56
Ethyl methacrylate
Concen: 0.455 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Tgt Ion: 69 Resp: 1555
Ion Ratio Lower Upper
69 100
41 5824.1 46.6 70.0#
39 2666.4 26.5 39.7#





#57

1,3-Dichloropropane

Concen: 2.298 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

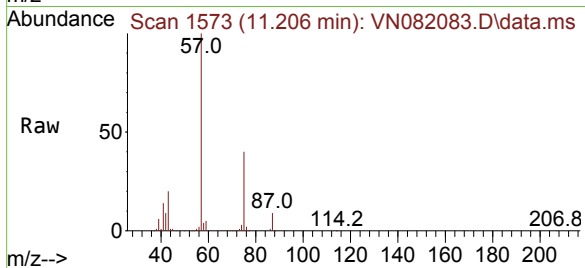
Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

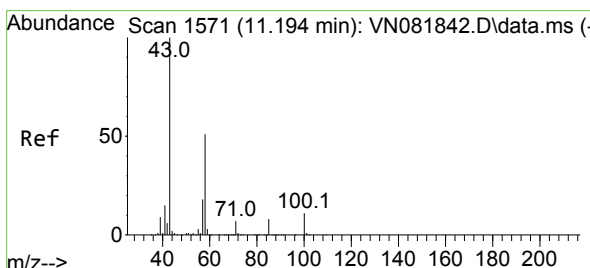
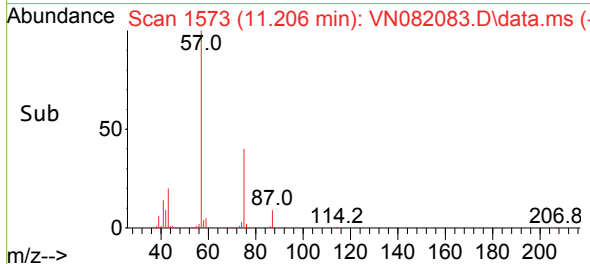
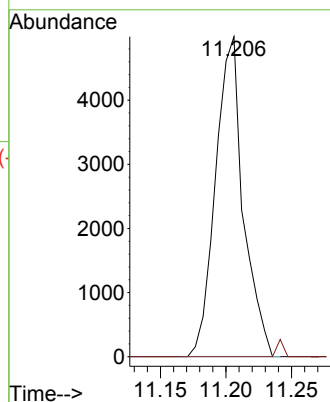


Tgt Ion: 76 Resp: 7332

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 69.991 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN082083.D

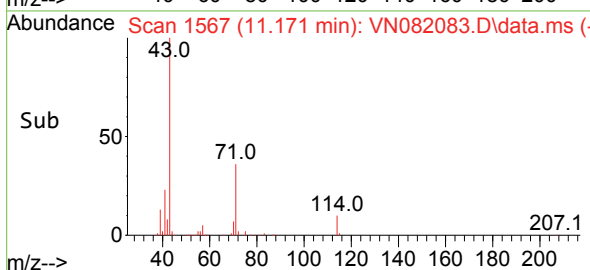
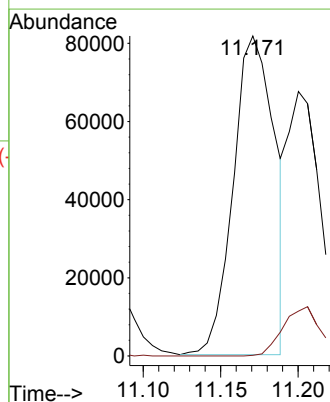
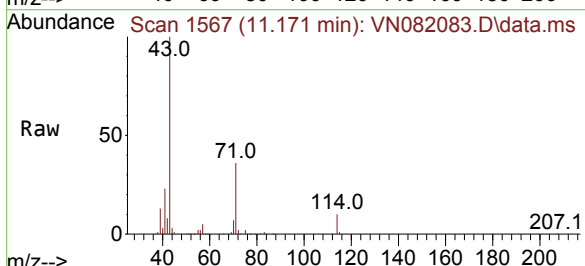
Acq: 10 May 2024 20:33

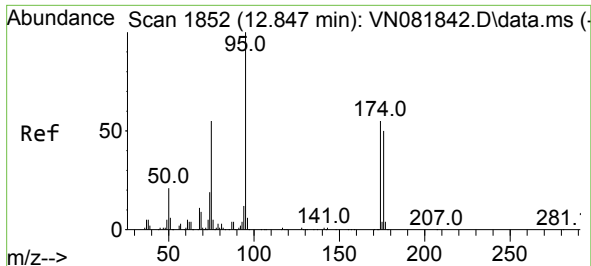
Tgt Ion: 43 Resp: 151331

Ion Ratio Lower Upper

43 100

58 0.0 28.3 84.9#

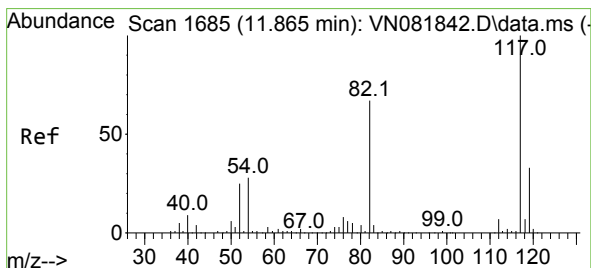
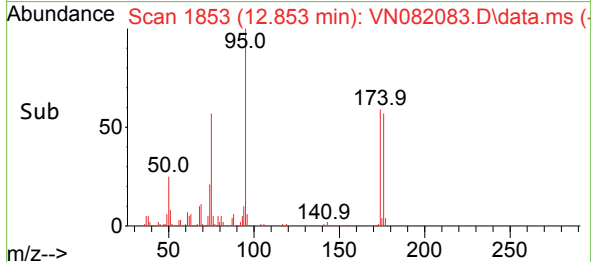
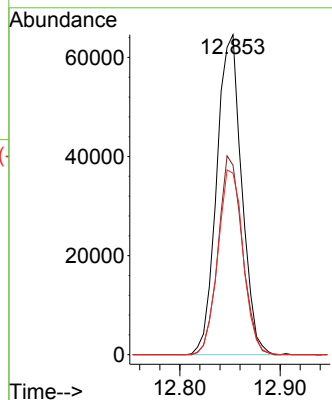
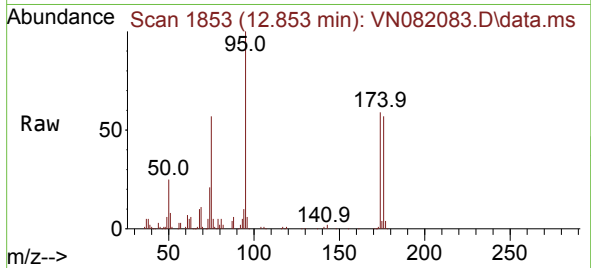




#62
4-Bromofluorobenzene
Concen: 46.038 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

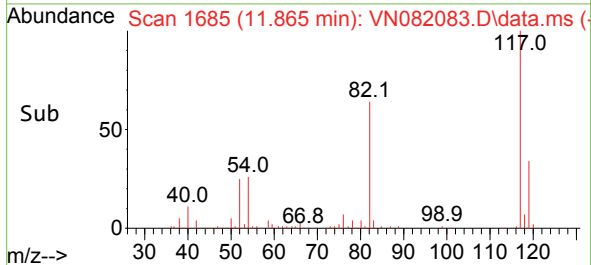
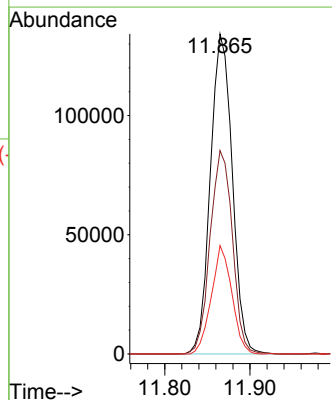
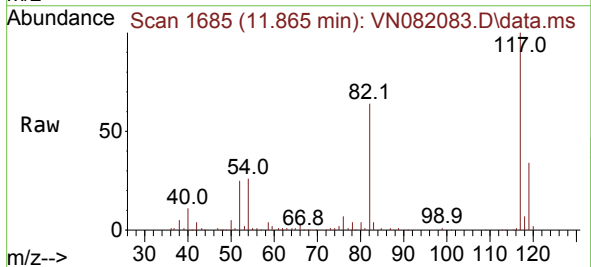
Instrument :
MSVOA_N
ClientSampleId :

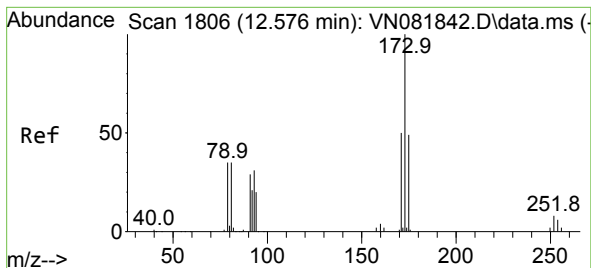
Tgt Ion: 95 Resp: 111532
Ion Ratio Lower Upper
95 100
174 60.2 0.0 160.6
176 58.3 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN082083.D
Acq: 10 May 2024 20:33

Tgt Ion: 117 Resp: 240188
Ion Ratio Lower Upper
117 100
82 63.5 44.6 66.8
119 33.9 25.9 38.9





#71

Bromoform

Concen: 0.219 ug/l

RT: 12.841 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN082083.D

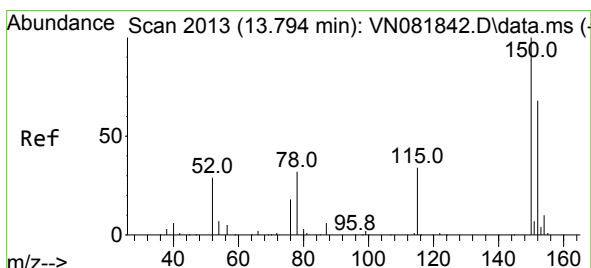
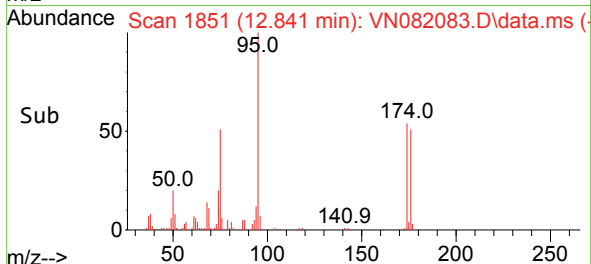
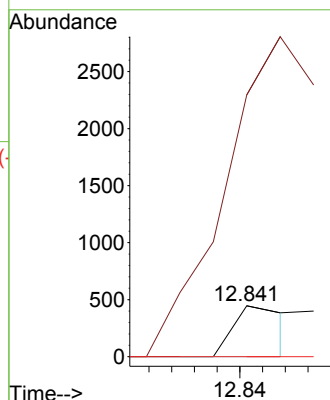
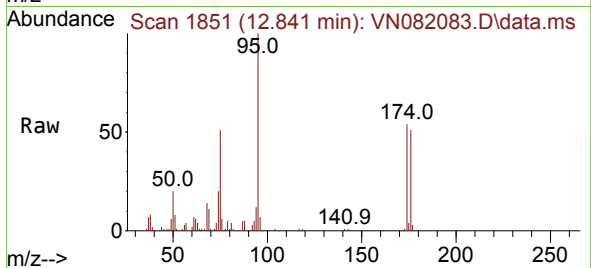
Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	173	Resp:	293
Ion Ratio	Lower	Upper	
173	100		
175	1090.4	24.6	74.0#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

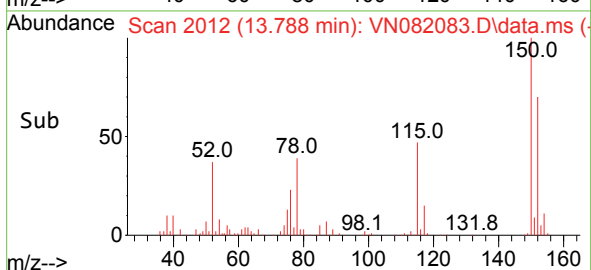
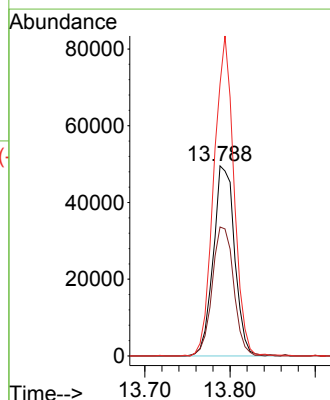
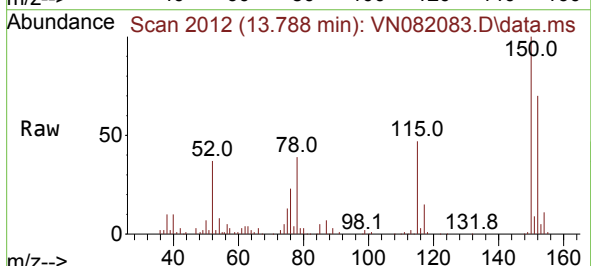
RT: 13.788 min Scan# 2012

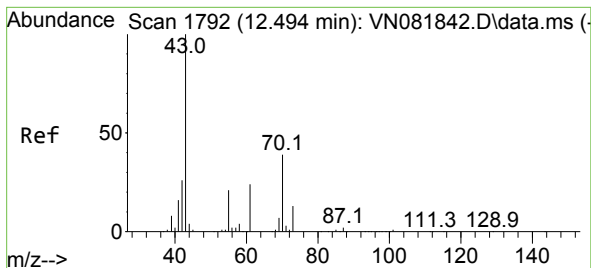
Delta R.T. -0.006 min

Lab File: VN082083.D

Acq: 10 May 2024 20:33

Tgt Ion:	152	Resp:	86270
Ion Ratio	Lower	Upper	
152	100		
115	68.1	30.4	91.3
150	158.2	0.0	353.2





#74

N-amy1 acetate

Concen: 0.529 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.006 min

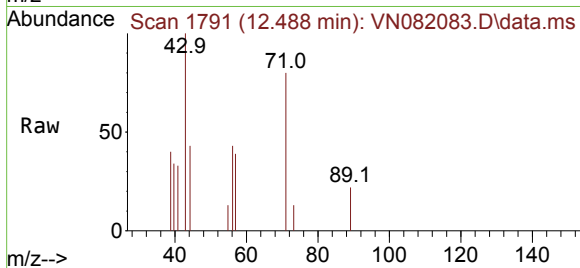
Lab File: VN082083.D

Acq: 10 May 2024 20:33

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 2257

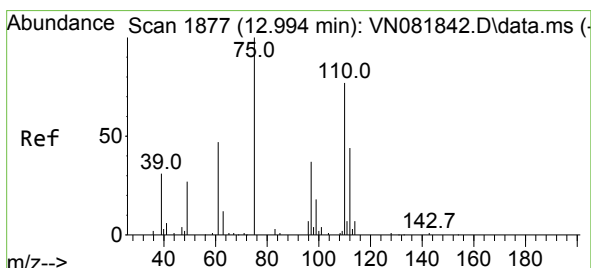
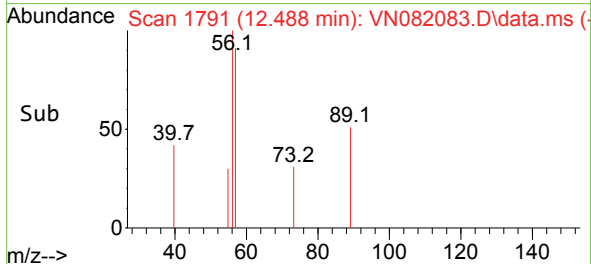
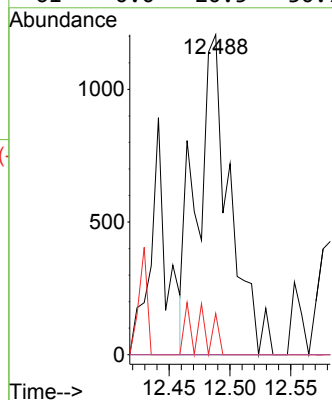
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.4#

55 0.0 21.3 31.9#

61 0.0 20.5 30.7#



#76

1,2,3-Trichloropropane

Concen: 28.817 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN082083.D

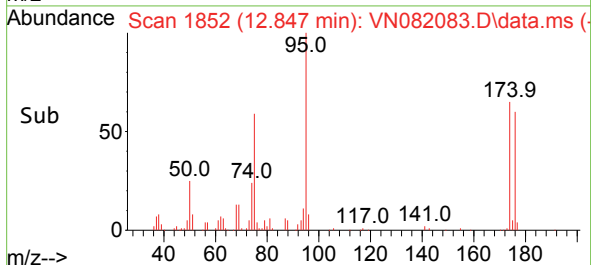
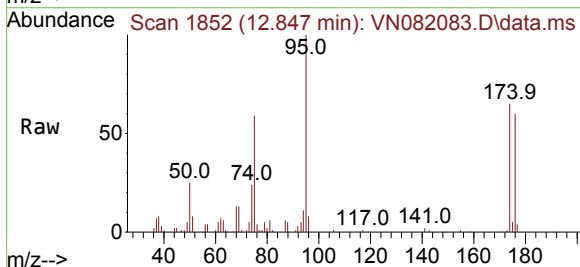
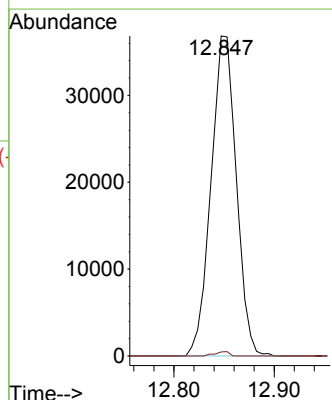
Acq: 10 May 2024 20:33

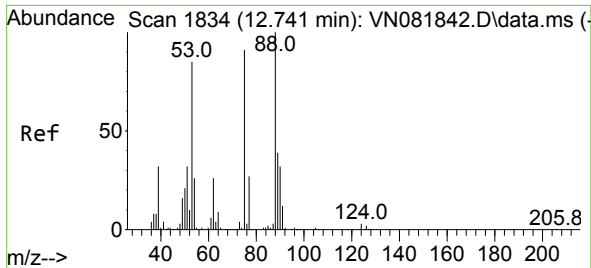
Tgt Ion: 75 Resp: 64457

Ion Ratio Lower Upper

75 100

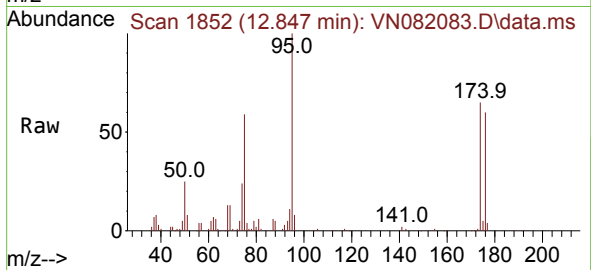
77 0.8 90.5 271.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.049 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN082083.D
 Acq: 10 May 2024 20:33

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 64457
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.9 109.3#
 89 0.0 39.1 58.7#

