

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050924\
 Data File : VN082056.D
 Acq On : 09 May 2024 17:22
 Operator : JC\MD
 Sample : P2411-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 10 03:54:20 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

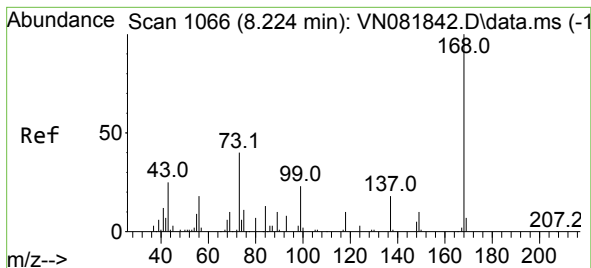
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	125229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	277370	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	259042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	93960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	118999	56.303	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.600%
35) Dibromofluoromethane	8.165	113	83070	49.742	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.480%
50) Toluene-d8	10.565	98	363135	55.366	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	110.740%
62) 4-Bromofluorobenzene	12.853	95	119515	46.096	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	92.200%
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	203	Below Cal	#	3
11) Tert butyl alcohol	5.506	59	1703	4.432	ug/l #	71
13) Acrolein	4.189	56	217	Below Cal	#	15
16) Acetone	4.430	43	21806	30.080	ug/l	100
18) Methyl Acetate	5.042	43	2498	1.167	ug/l #	86
20) Methylene Chloride	5.271	84	9466	5.226	ug/l #	82
25) 2-Butanone	7.489	43	21674	18.068	ug/l	96
29) Tetrahydrofuran	7.847	42	1084	1.260	ug/l #	42
31) Cyclohexane	8.224	56	4170	1.310	ug/l #	15
36) 1,1-Dichloropropene	8.224	75	14951	5.503	ug/l #	46
37) Ethyl Acetate	7.559	43	1251	0.426	ug/l #	91
38) Carbon Tetrachloride	8.224	117	14898	5.611	ug/l #	16
41) Methacrylonitrile	7.847	41	672	0.359	ug/l #	41
42) 1,2-Dichloroethane	8.683	62	987	0.326	ug/l #	73
43) Isopropyl Acetate	8.688	43	243869	44.152	ug/l #	73
48) Methyl methacrylate	9.659	41	5786	2.194	ug/l #	40
49) 1,4-Dioxane	9.747	88	66	1.647	ug/l #	1
51) 4-Methyl-2-Pentanone	10.359	43	105294	33.864	ug/l #	42
52) Toluene	10.635	92	2241	0.459	ug/l	89
53) t-1,3-Dichloropropene	10.730	75	848	0.250	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	46941	13.453	ug/l #	65
57) 1,3-Dichloropropane	11.212	76	5659	1.657	ug/l #	42
59) 2-Hexanone	11.171	43	123113	53.204	ug/l #	23
74) N-amyl acetate	12.459	43	6576	1.414	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.953	83	554	0.221	ug/l #	25
76) 1,2,3-Trichloropropane	12.853	75	69054	28.345	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	69054	58.083	ug/l #	12

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

Quant Time: May 10 03:54:20 2024
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QLast Update : Fri Apr 26 05:26:49 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN082056.D

Acq: 09 May 2024 17:22

Instrument :

MSVOA_N

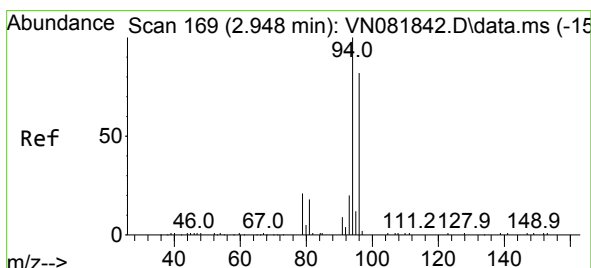
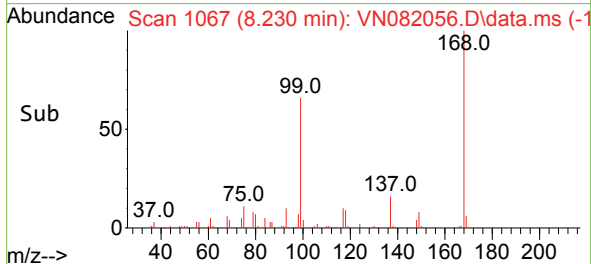
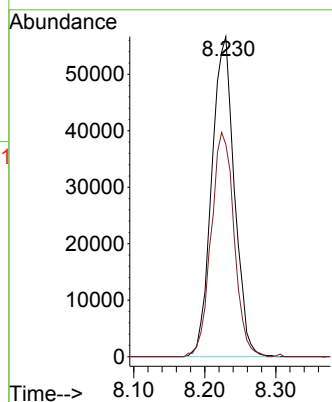
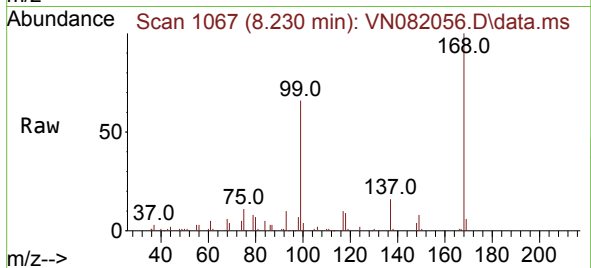
ClientSampleId :

Tgt Ion:168 Resp: 125229

Ion Ratio Lower Upper

168 100

99 66.3 48.2 72.4



#5

Bromomethane

Concen: Below Cal

RT: 2.965 min Scan# 172

Delta R.T. 0.017 min

Lab File: VN082056.D

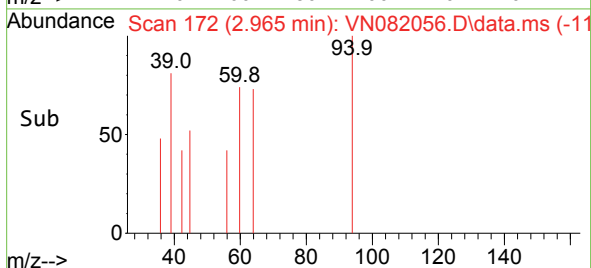
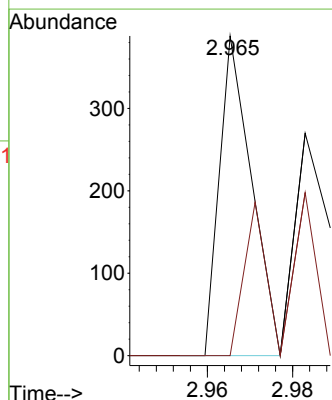
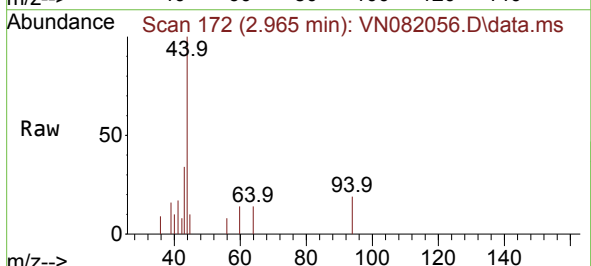
Acq: 09 May 2024 17:22

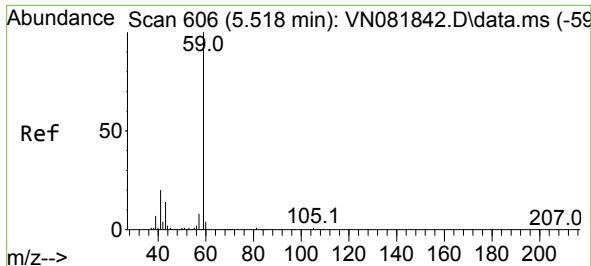
Tgt Ion: 94 Resp: 203

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#





#11

Tert butyl alcohol

Concen: 4.432 ug/l

RT: 5.506 min Scan# 606

Delta R.T. -0.012 min

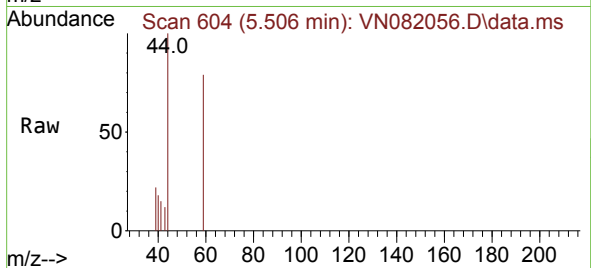
Lab File: VN082056.D

Acq: 09 May 2024 17:22

Instrument :

MSVOA_N

ClientSampleId :

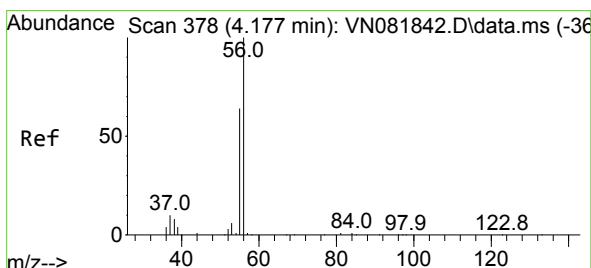
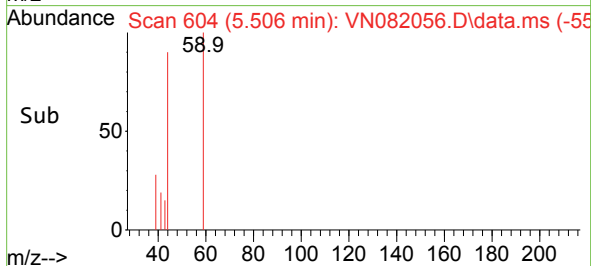
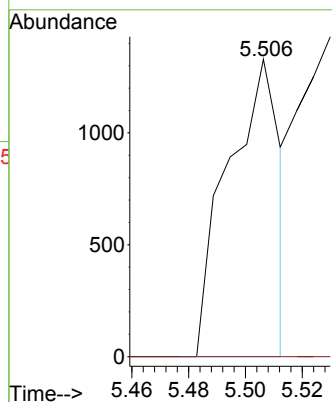


Tgt Ion: 59 Resp: 1703

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#13

Acrolein

Concen: Below Cal

RT: 4.189 min Scan# 380

Delta R.T. 0.012 min

Lab File: VN082056.D

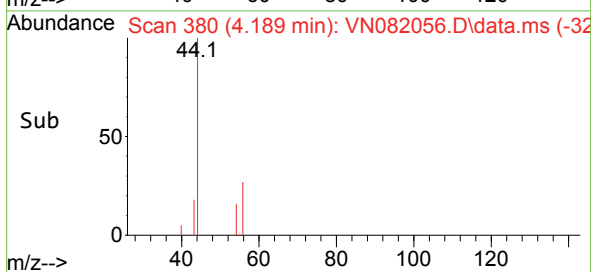
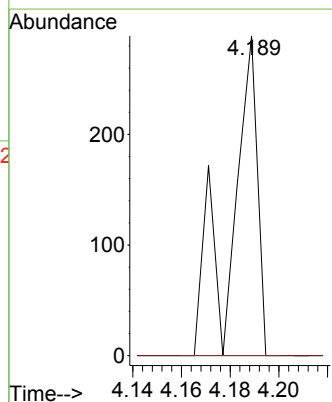
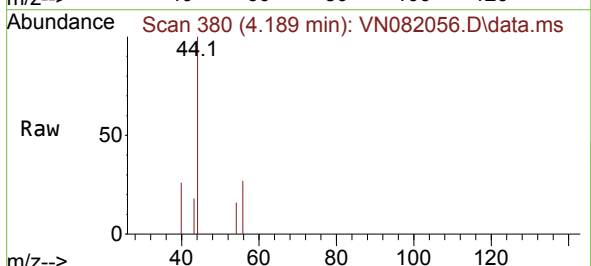
Acq: 09 May 2024 17:22

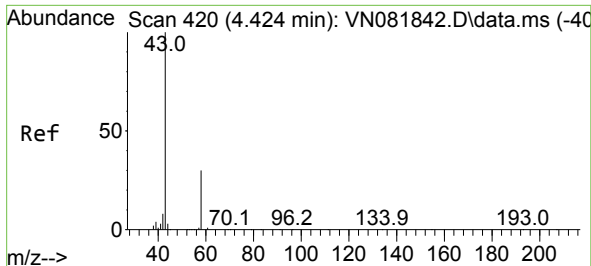
Tgt Ion: 56 Resp: 217

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#

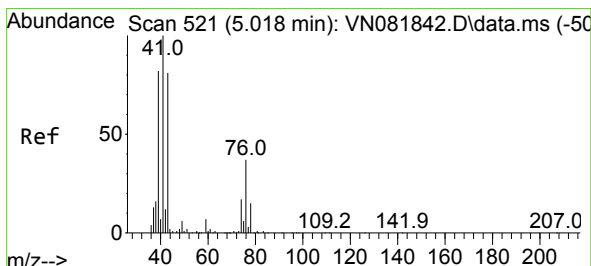
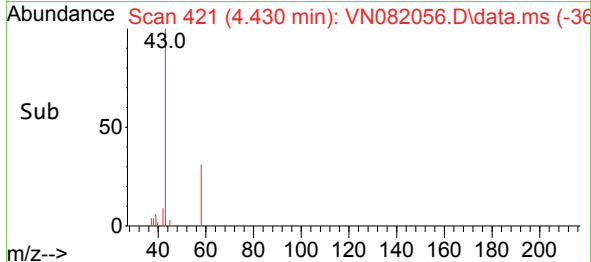
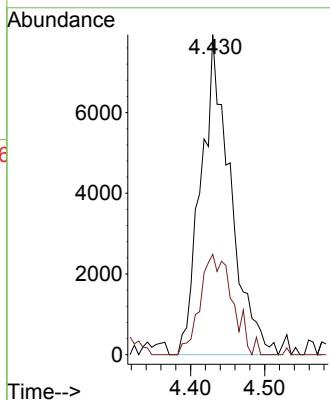
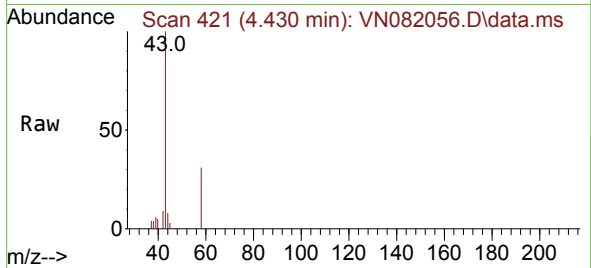




#16
Acetone
Concen: 30.080 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

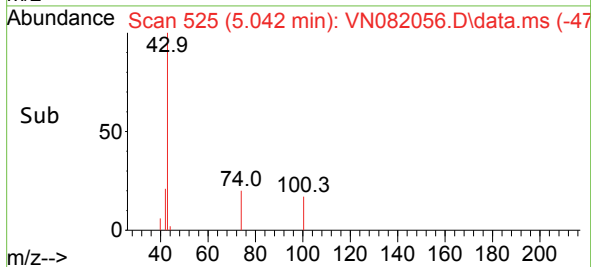
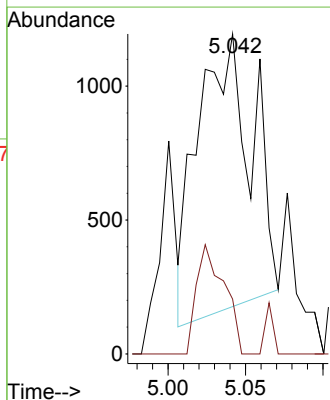
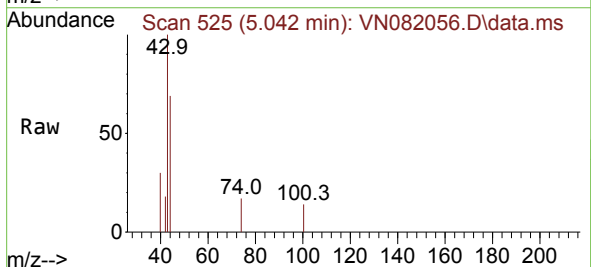
Instrument :
MSVOA_N
ClientSampleId :

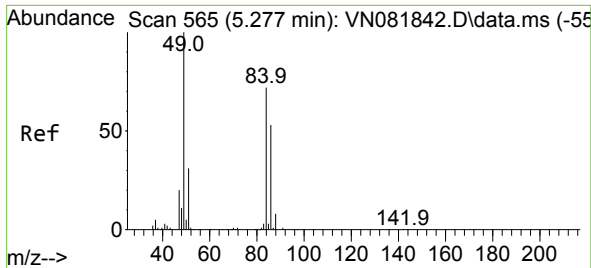
Tgt Ion: 43 Resp: 21806
Ion Ratio Lower Upper
43 100
58 31.4 25.2 37.8



#18
Methyl Acetate
Concen: 1.167 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.024 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

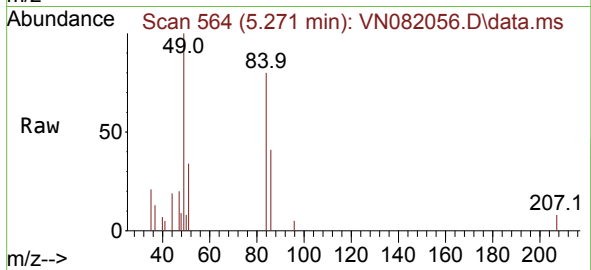
Tgt Ion: 43 Resp: 2498
Ion Ratio Lower Upper
43 100
74 20.3 22.2 33.2#



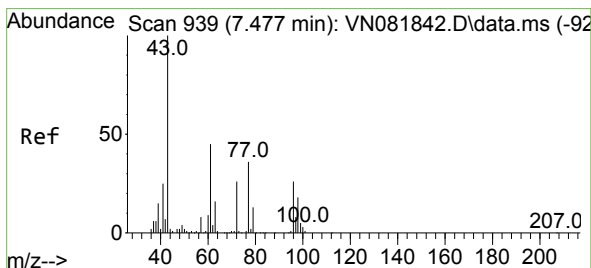
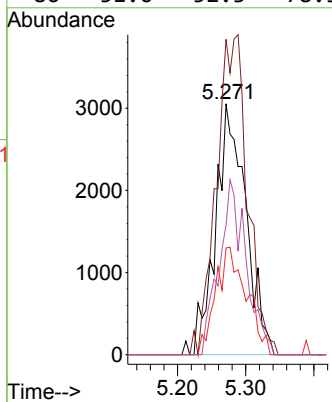
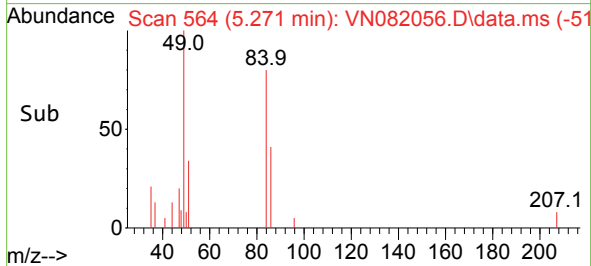


#20
Methylene Chloride
Concen: 5.226 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

Instrument :
MSVOA_N
ClientSampleId :

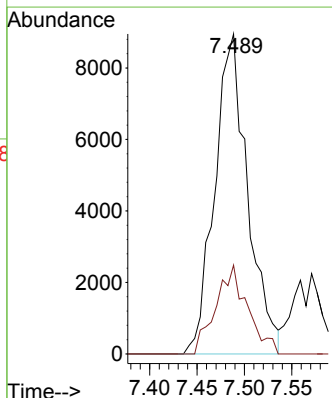
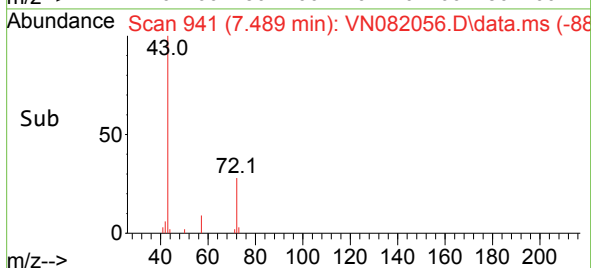
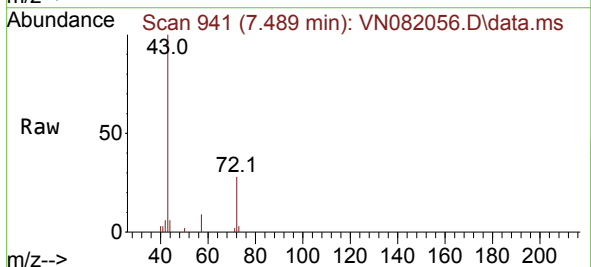


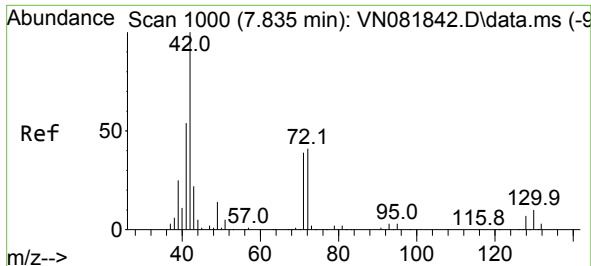
Tgt Ion:	84	Resp:	9466
Ion	Ratio	Lower	Upper
84	100		
49	125.7	84.9	127.3
51	42.5	27.0	40.6#
86	51.6	52.3	78.5#



#25
2-Butanone
Concen: 18.068 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

Tgt Ion:	43	Resp:	21674
Ion	Ratio	Lower	Upper
43	100		
72	29.1	25.3	37.9





#29

Tetrahydrofuran

Concen: 1.260 ug/l

RT: 7.847 min Scan# 1084

Delta R.T. 0.012 min

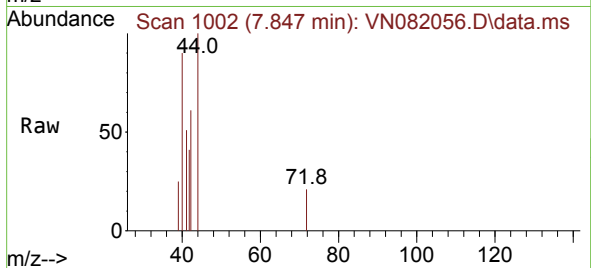
Lab File: VN082056.D

Acq: 09 May 2024 17:22

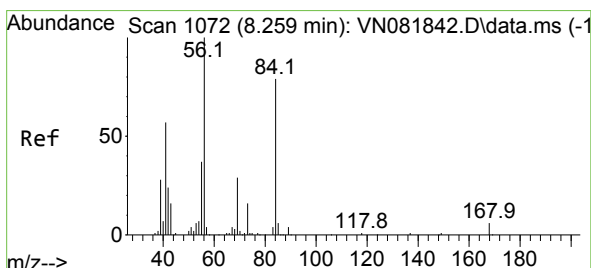
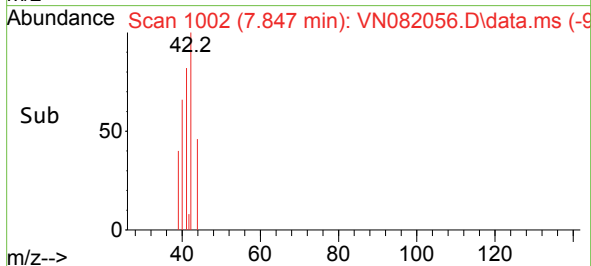
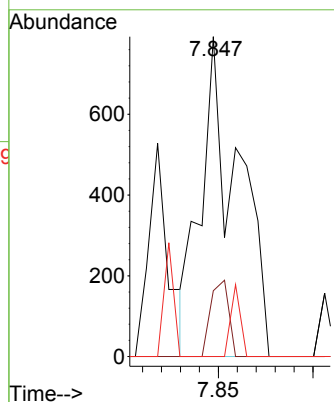
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1084
Ion	Ratio	Lower	Upper
42	100		
72	11.4	39.3	58.9#
71	5.8	37.4	56.0#



#31

Cyclohexane

Concen: 1.310 ug/l

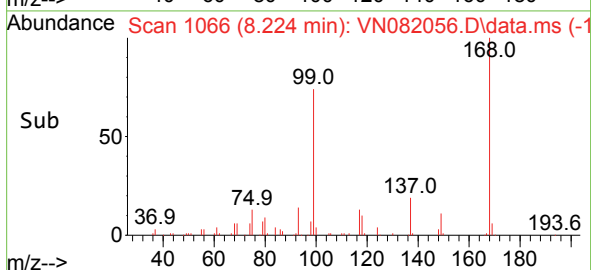
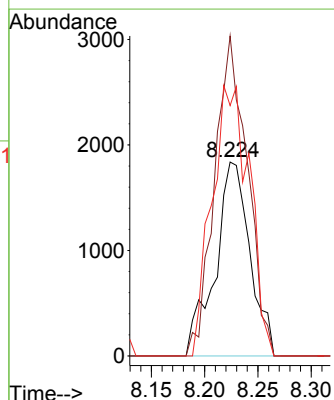
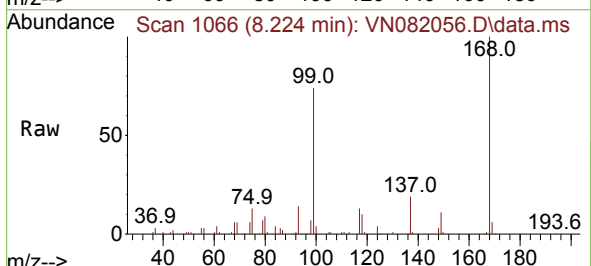
RT: 8.224 min Scan# 1066

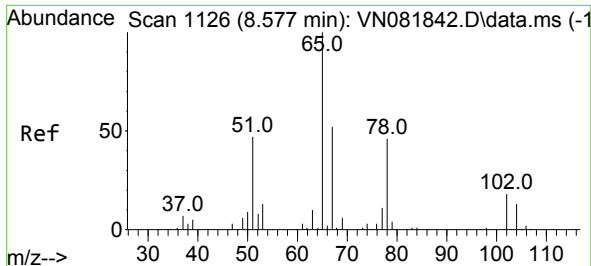
Delta R.T. -0.035 min

Lab File: VN082056.D

Acq: 09 May 2024 17:22

Tgt Ion:	56	Resp:	4170
Ion	Ratio	Lower	Upper
56	100		
69	165.0	24.4	36.6#
84	129.2	77.0	115.4#





#33

1,2-Dichloroethane-d4

Concen: 56.303 ug/l

RT: 8.583 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN082056.D

Acq: 09 May 2024 17:22

Instrument :

MSVOA_N

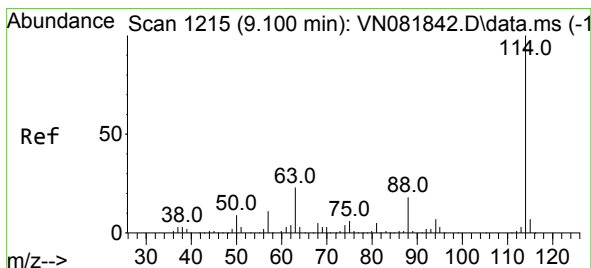
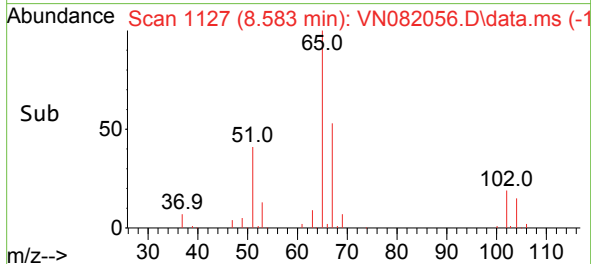
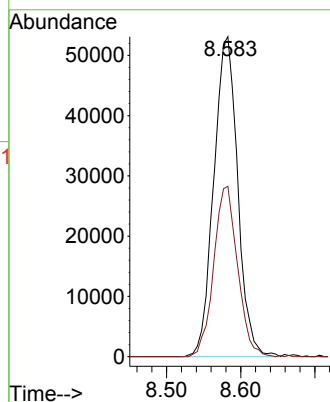
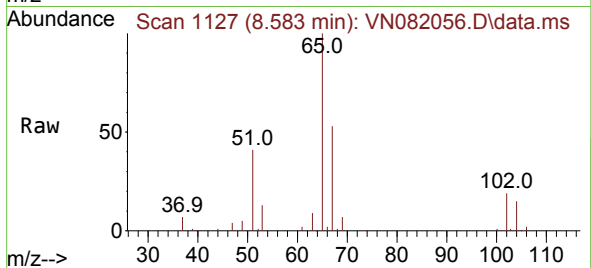
ClientSampleId :

Tgt Ion: 65 Resp: 118999

Ion Ratio Lower Upper

65 100

67 53.0 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: VN082056.D

Acq: 09 May 2024 17:22

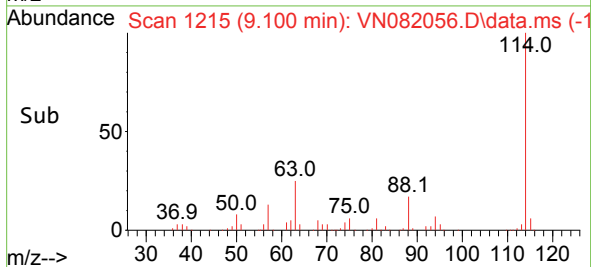
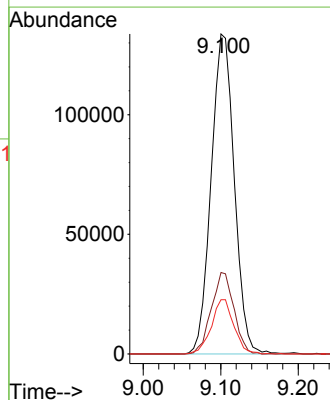
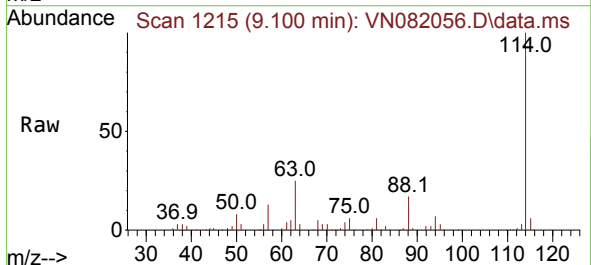
Tgt Ion: 114 Resp: 277370

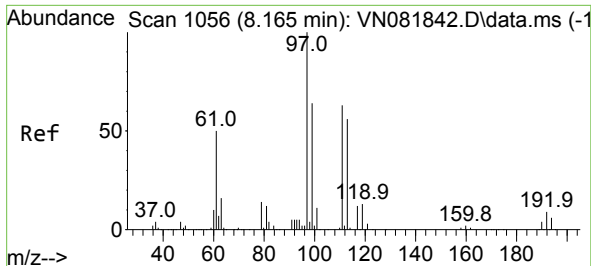
Ion Ratio Lower Upper

114 100

63 25.4 0.0 41.0

88 17.0 0.0 31.4

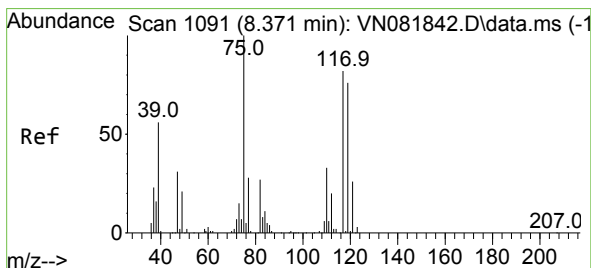
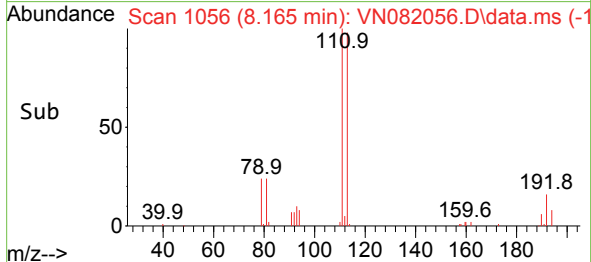
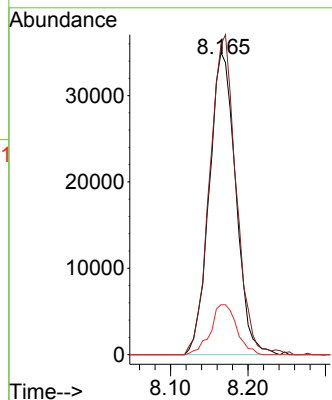
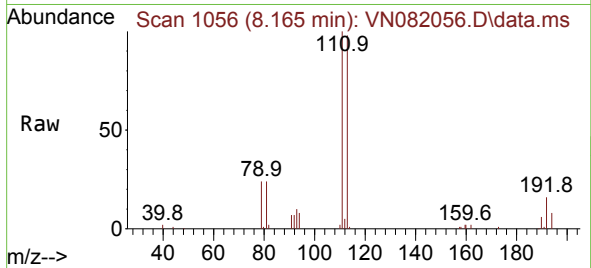




#35
Dibromofluoromethane
Concen: 49.742 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

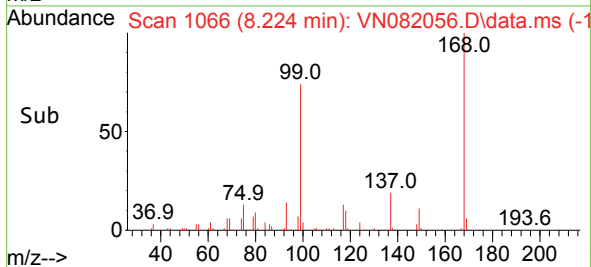
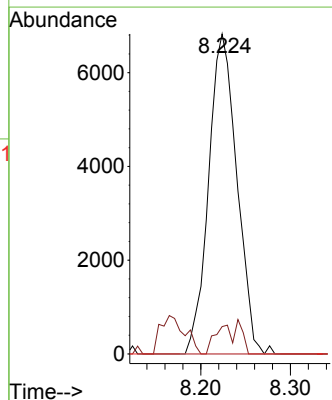
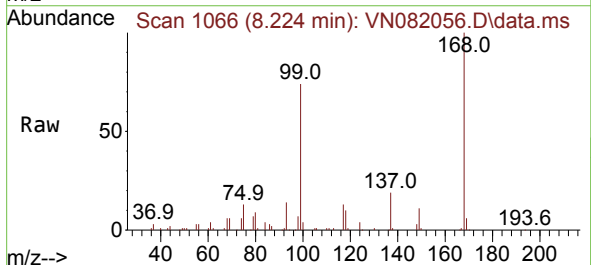
Instrument :
MSVOA_N
ClientSampleId :

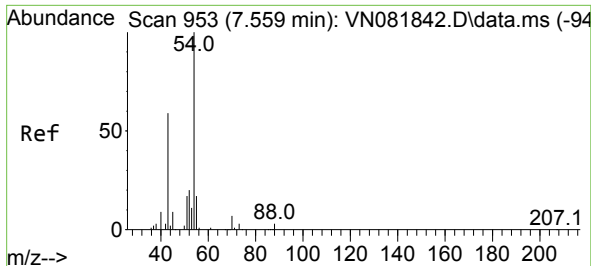
Tgt Ion:113 Resp: 83070
Ion Ratio Lower Upper
113 100
111 105.5 83.4 125.2
192 16.3 14.0 21.0



#36
1,1-Dichloropropene
Concen: 5.503 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

Tgt Ion: 75 Resp: 14951
Ion Ratio Lower Upper
75 100
110 5.3 17.8 53.5#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.426 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

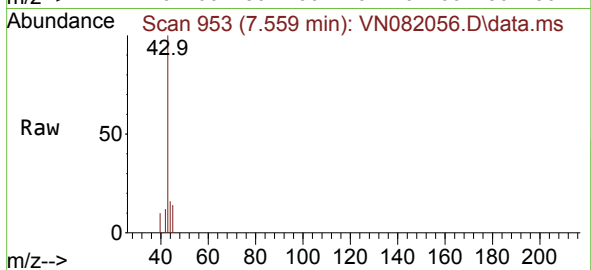
Lab File: VN082056.D

Acq: 09 May 2024 17:22

Instrument :

MSVOA_N

ClientSampleId :



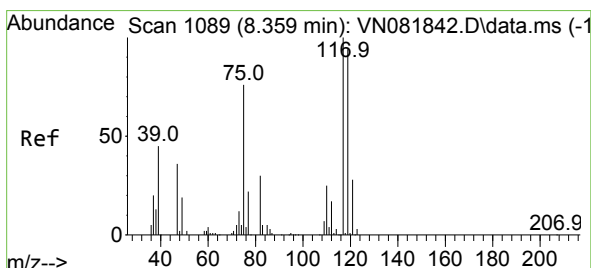
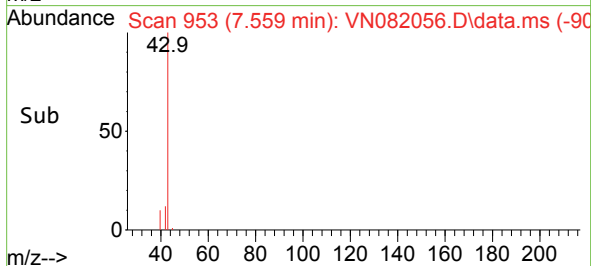
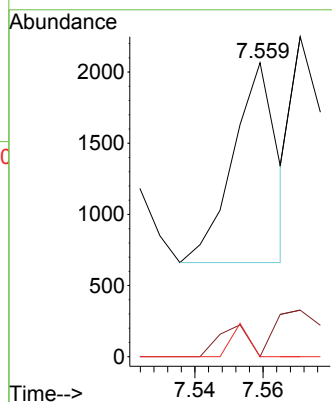
Tgt Ion: 43 Resp: 1251

Ion Ratio Lower Upper

43 100

61 10.8 11.3 16.9#

70 6.6 8.7 13.1#



#38

Carbon Tetrachloride

Concen: 5.611 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN082056.D

Acq: 09 May 2024 17:22

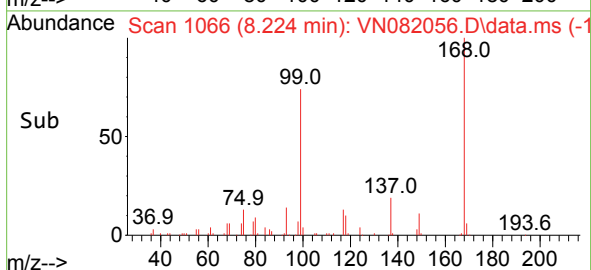
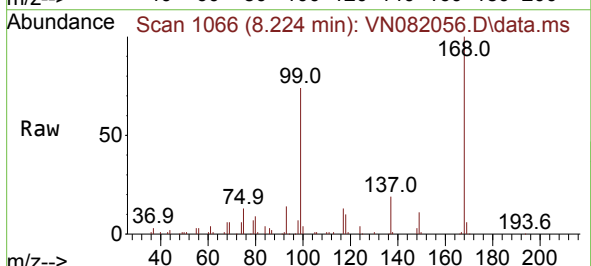
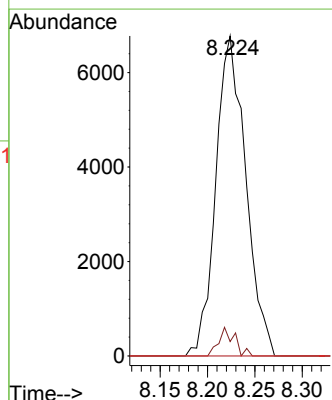
Tgt Ion: 117 Resp: 14898

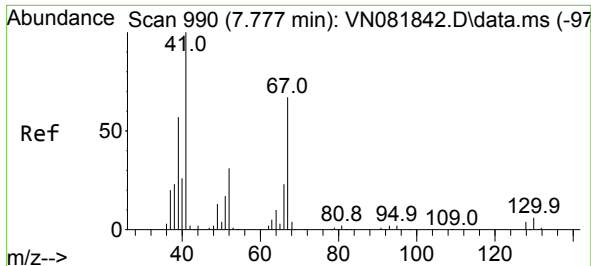
Ion Ratio Lower Upper

117 100

119 4.5 76.5 114.7#

121 0.0 23.9 35.9#

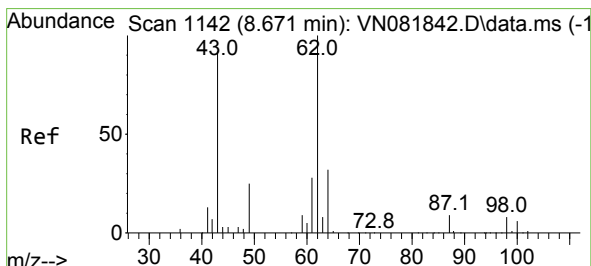
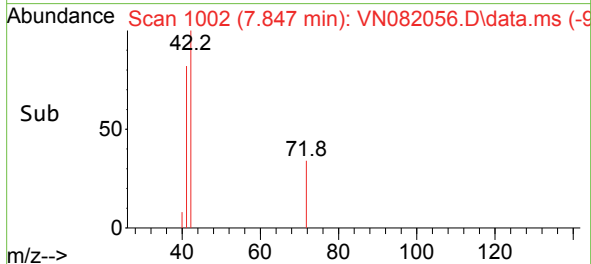
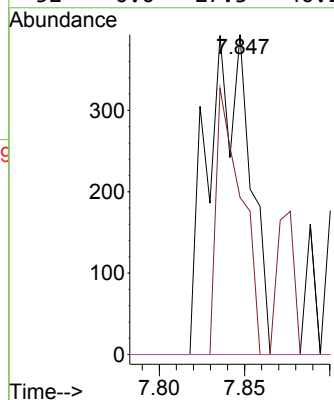
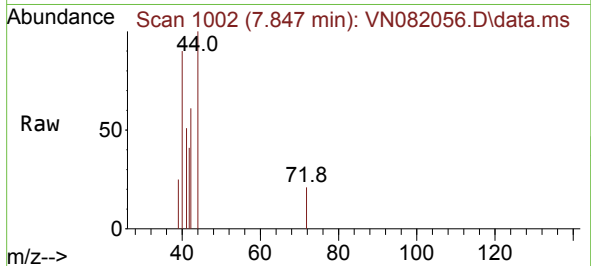




#41
Methacrylonitrile
Concen: 0.359 ug/l
RT: 7.847 min Scan# 1100
Delta R.T. 0.071 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

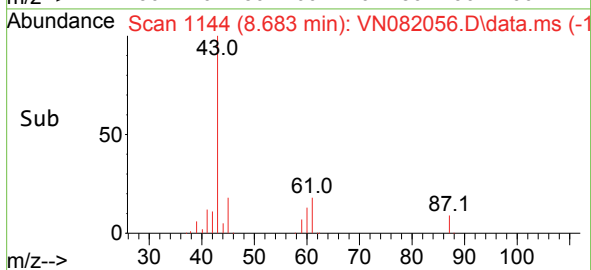
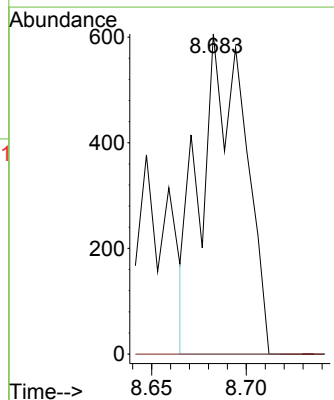
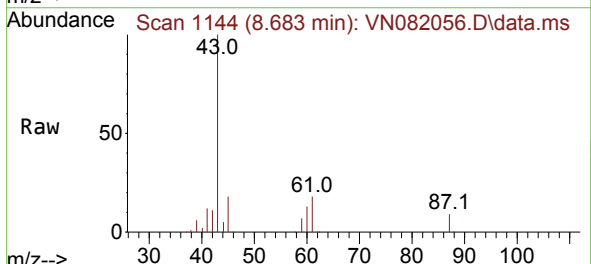
Instrument :
MSVOA_N
ClientSampleId :

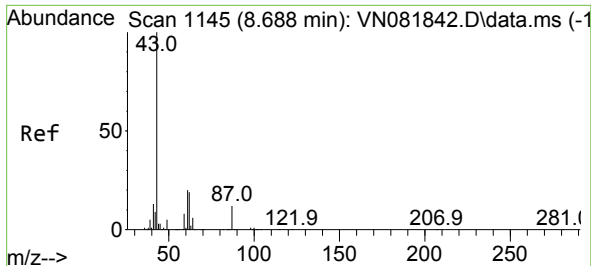
Tgt Ion: 41 Resp: 672
Ion Ratio Lower Upper
41 100
39 50.0 46.6 69.8
67 0.0 67.3 100.9#
52 0.0 27.3 40.9#



#42
1,2-Dichloroethane
Concen: 0.326 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

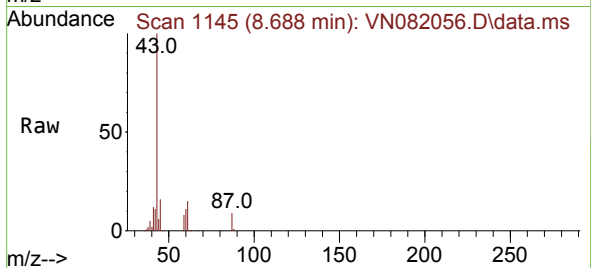
Tgt Ion: 62 Resp: 987
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.6



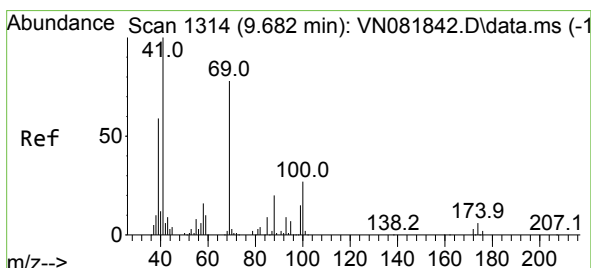
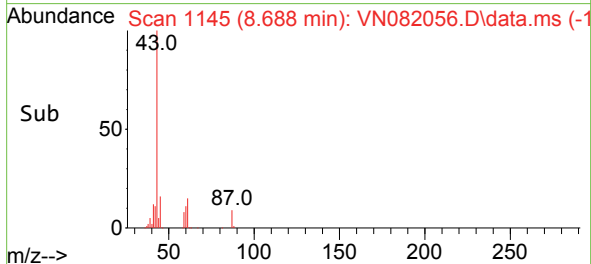
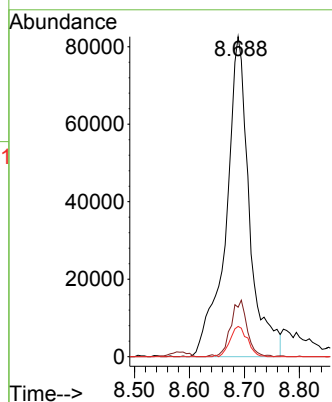


#43
Isopropyl Acetate
Concen: 44.152 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

Instrument :
MSVOA_N
ClientSampleId :

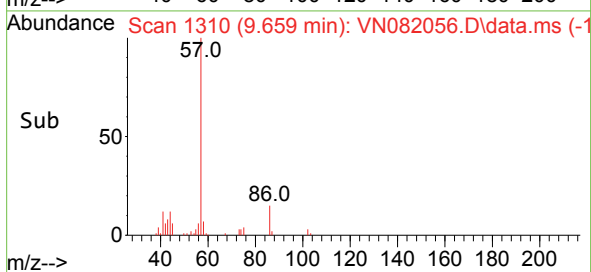
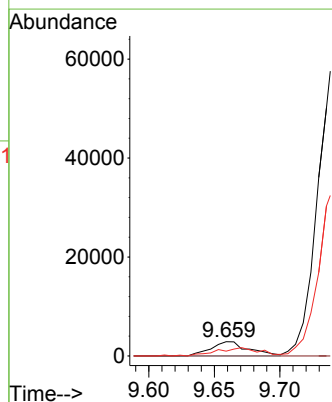
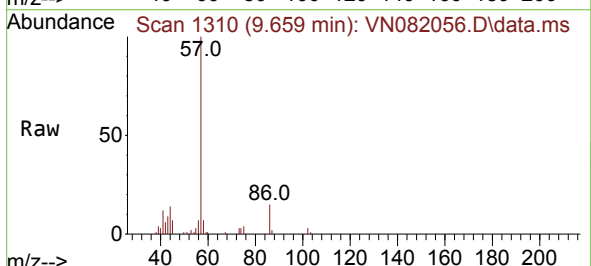


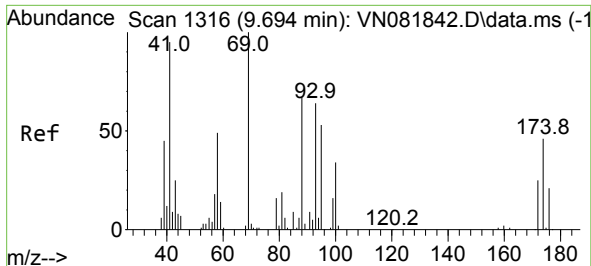
Tgt Ion: 43 Resp: 243869
Ion Ratio Lower Upper
43 100
61 12.4 22.8 34.2#
87 7.0 12.0 18.0#



#48
Methyl methacrylate
Concen: 2.194 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.023 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

Tgt Ion: 41 Resp: 5786
Ion Ratio Lower Upper
41 100
69 0.0 77.9 116.9#
39 64.2 50.9 76.3





#49

1,4-Dioxane

Concen: 1.647 ug/l

RT: 9.747 min Scan# 1316

Delta R.T. 0.053 min

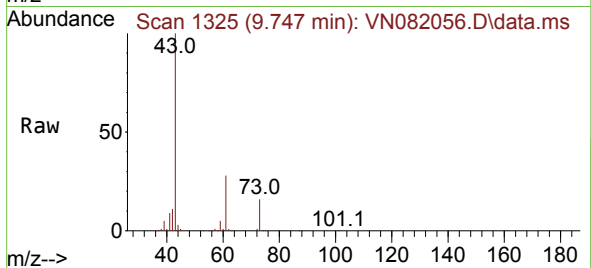
Lab File: VN082056.D

Acq: 09 May 2024 17:22

Instrument :

MSVOA_N

ClientSampleId :



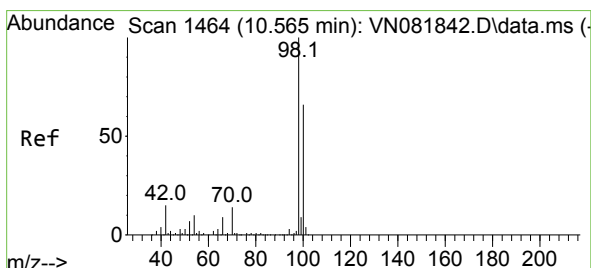
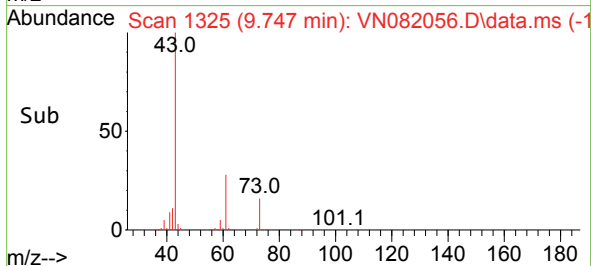
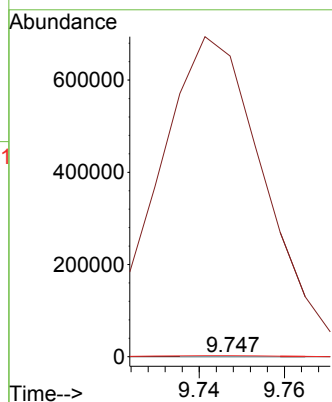
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 1878216.7 19.0 28.6#

58 6825.8 50.6 76.0#



#50

Toluene-d8

Concen: 55.366 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN082056.D

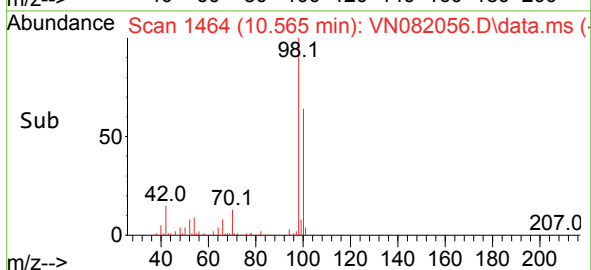
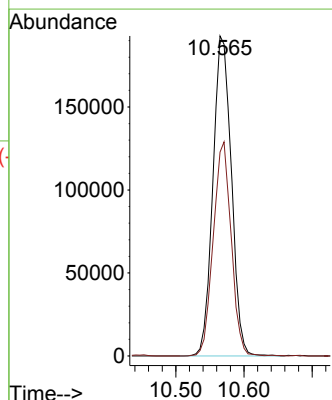
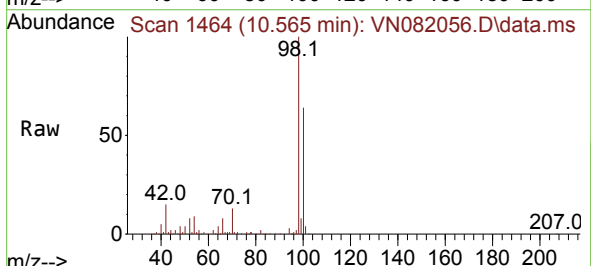
Acq: 09 May 2024 17:22

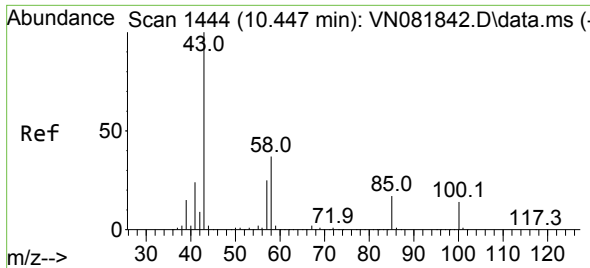
Tgt Ion: 98 Resp: 363135

Ion Ratio Lower Upper

98 100

100 64.9 51.8 77.6

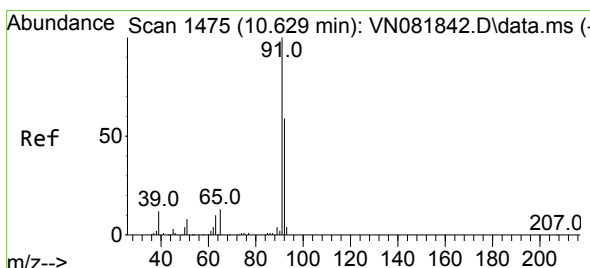
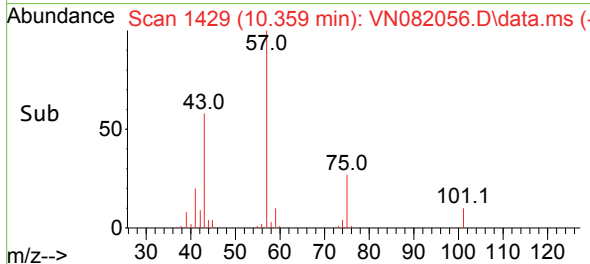
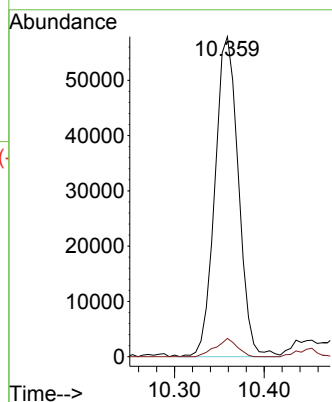
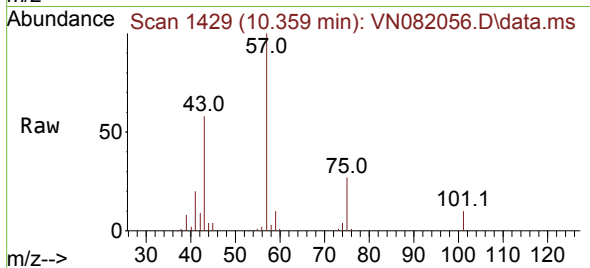




#51
4-Methyl-2-Pentanone
Concen: 33.864 ug/l
RT: 10.359 min Scan# 1444
Delta R.T. -0.088 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

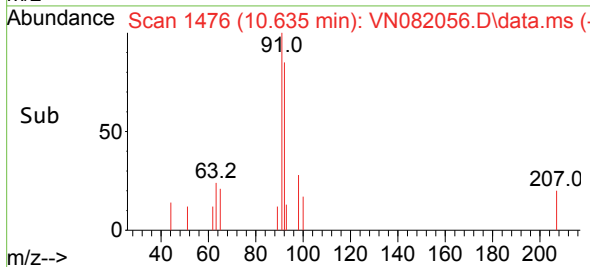
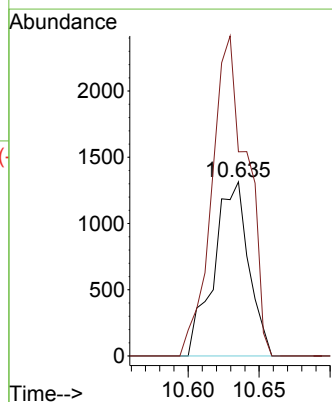
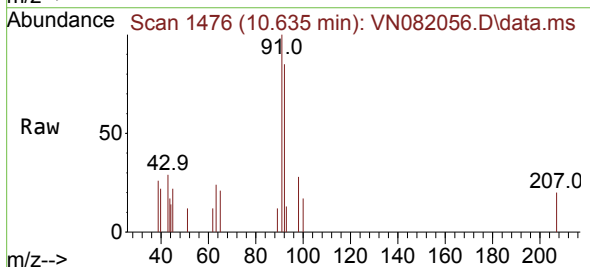
Instrument :
MSVOA_N
ClientSampleId :

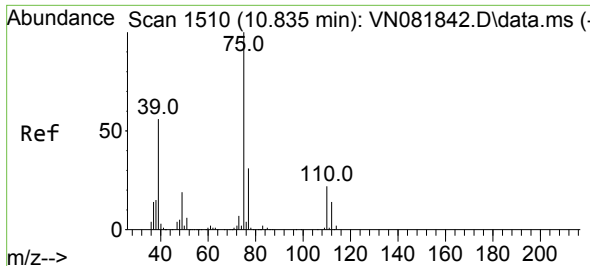
Tgt Ion: 43 Resp: 105294
Ion Ratio Lower Upper
43 100
58 5.2 33.2 49.8#



#52
Toluene
Concen: 0.459 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

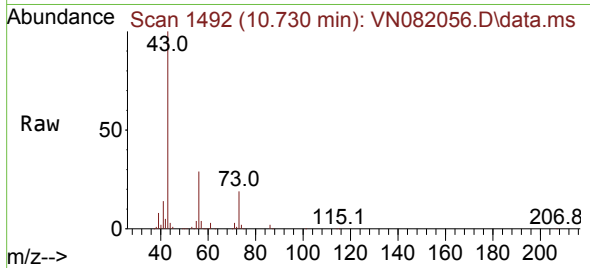
Tgt Ion: 92 Resp: 2241
Ion Ratio Lower Upper
92 100
91 185.7 136.7 205.1



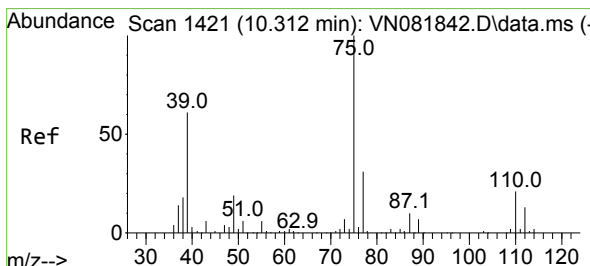
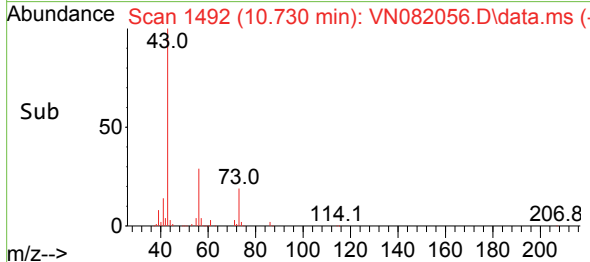
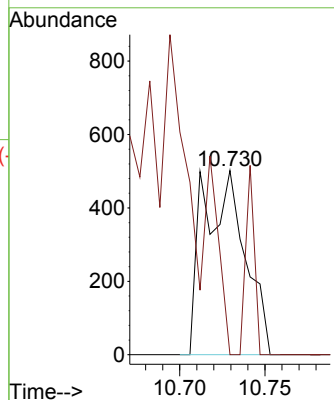


#53
 t-1,3-Dichloropropene
 Concen: 0.250 ug/l
 RT: 10.730 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN082056.D
 Acq: 09 May 2024 17:22

Instrument :
 MSVOA_N
 ClientSampleId :

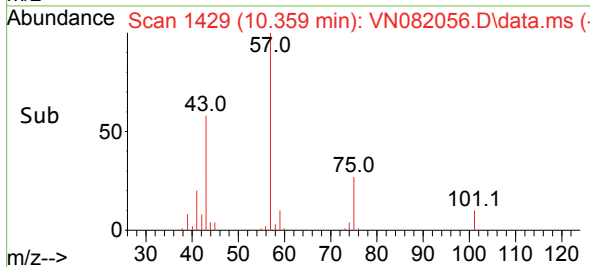
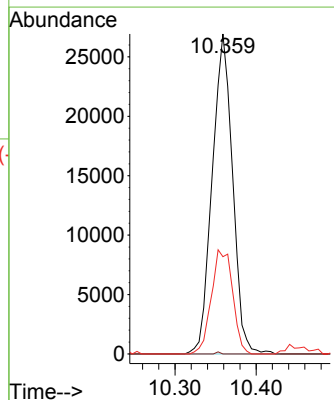
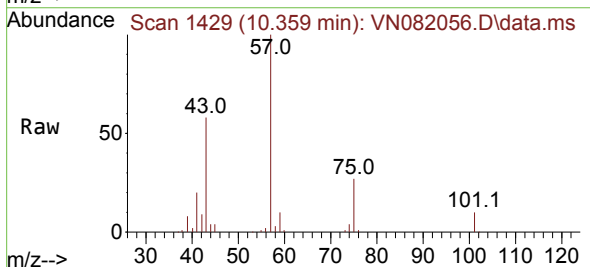


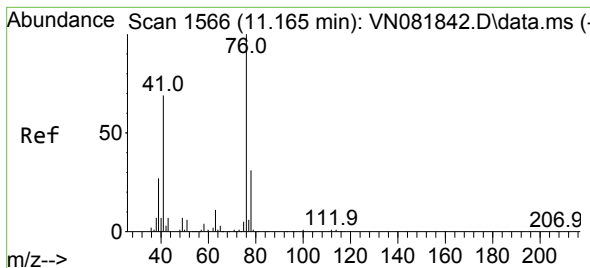
Tgt Ion: 75 Resp: 848
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 13.453 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN082056.D
 Acq: 09 May 2024 17:22

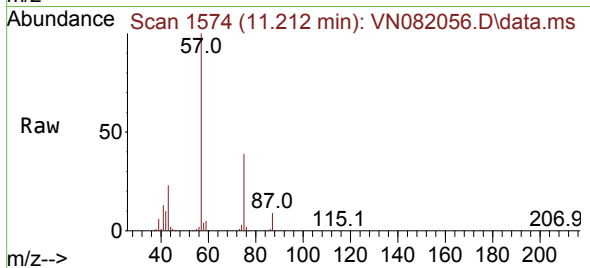
Tgt Ion: 75 Resp: 46941
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 30.4 34.8 52.2#



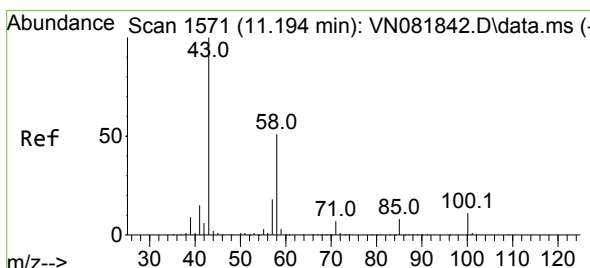
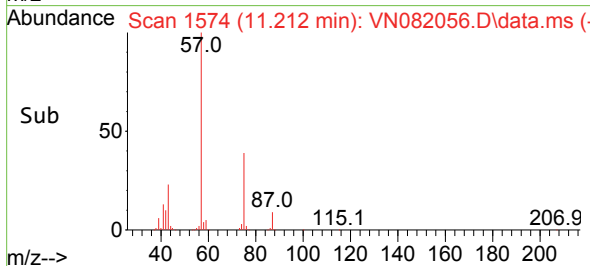
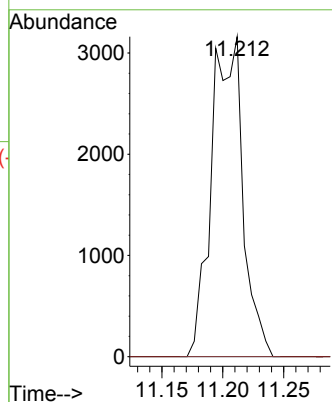


#57
1,3-Dichloropropane
Concen: 1.657 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

Instrument :
MSVOA_N
ClientSampleId :

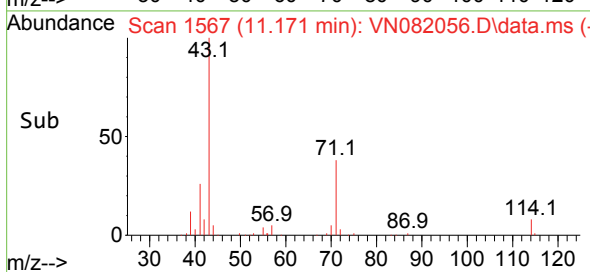
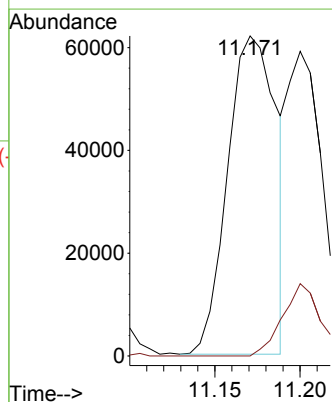
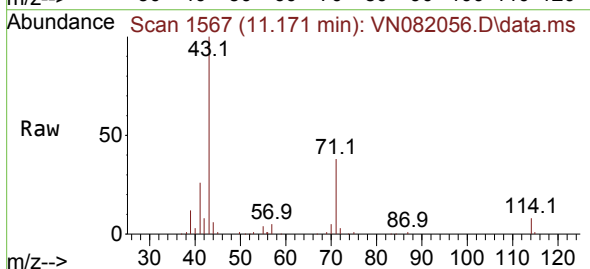


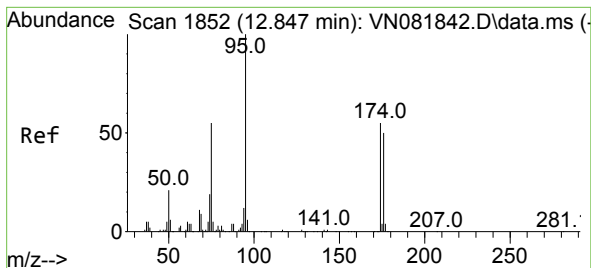
Tgt Ion: 76 Resp: 5659
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#



#59
2-Hexanone
Concen: 53.204 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

Tgt Ion: 43 Resp: 123113
Ion Ratio Lower Upper
43 100
58 0.0 28.3 84.9#

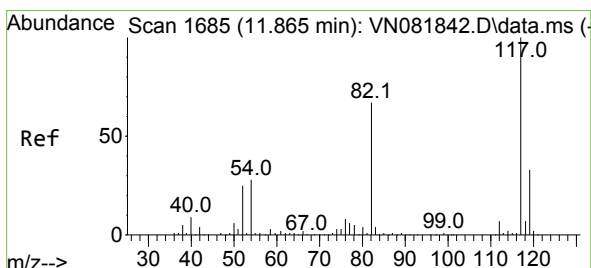
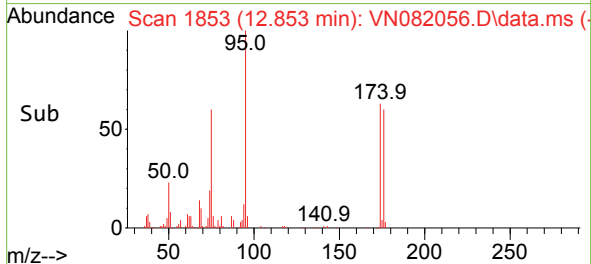
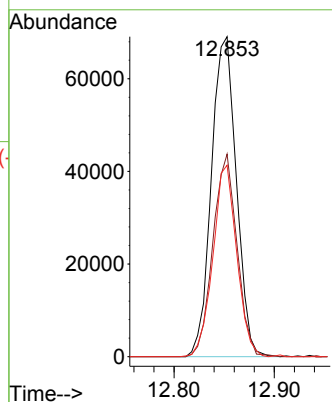
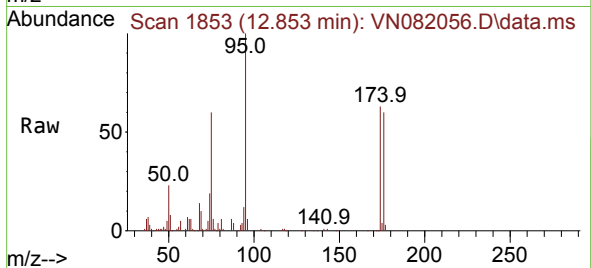




#62
4-Bromofluorobenzene
Concen: 46.096 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

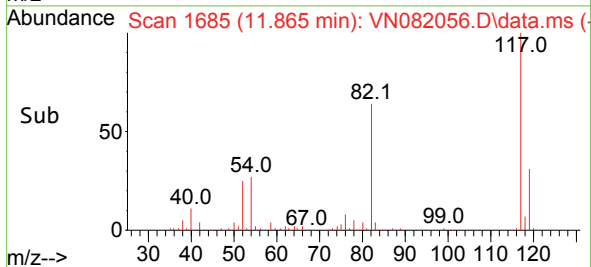
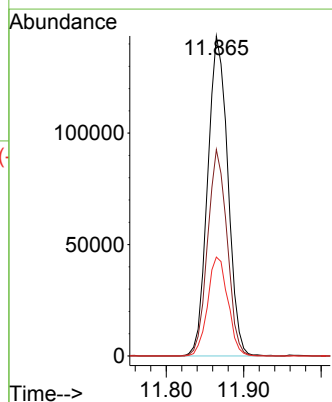
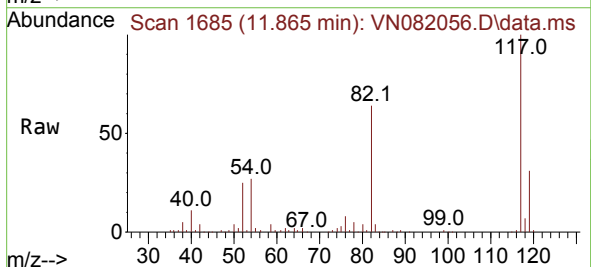
Instrument :
MSVOA_N
ClientSampleId :

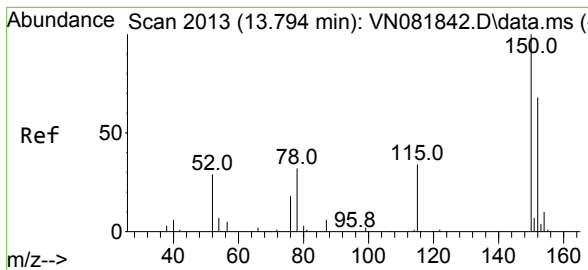
Tgt Ion: 95 Resp: 119515
Ion Ratio Lower Upper
95 100
174 61.1 0.0 160.6
176 57.1 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN082056.D
Acq: 09 May 2024 17:22

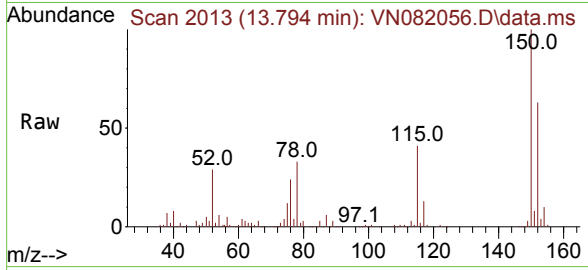
Tgt Ion: 117 Resp: 259042
Ion Ratio Lower Upper
117 100
82 64.5 44.6 66.8
119 30.9 25.9 38.9



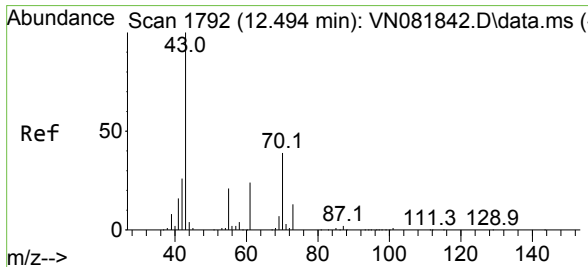
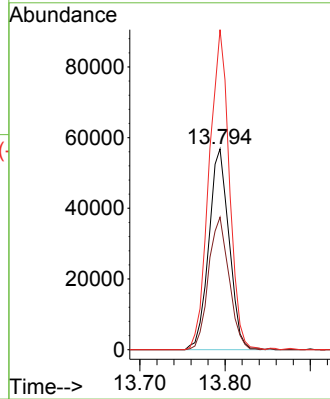
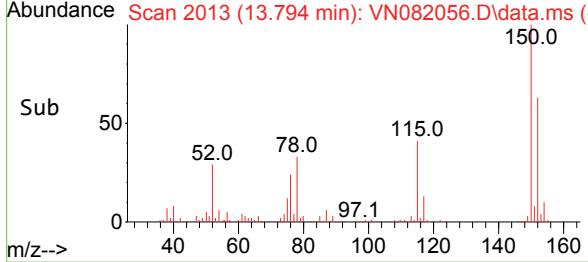


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN082056.D
 Acq: 09 May 2024 17:22

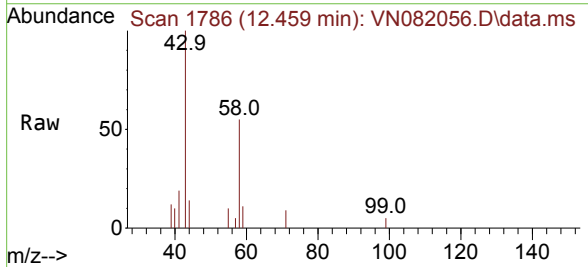
Instrument :
 MSVOA_N
 ClientSampleId :



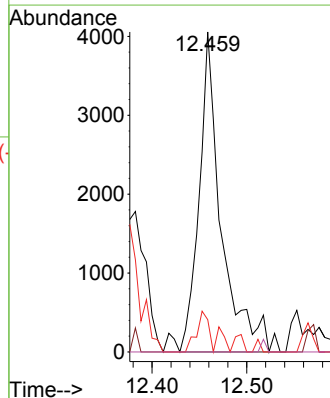
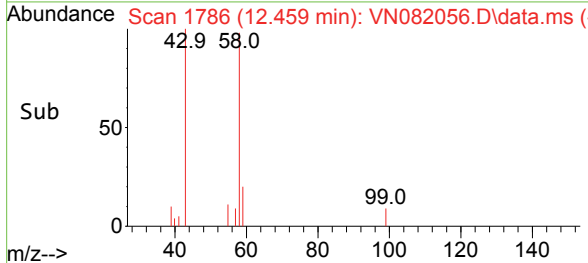
Tgt Ion:152 Resp: 93960
 Ion Ratio Lower Upper
 152 100
 115 66.7 30.4 91.3
 150 158.2 0.0 353.2

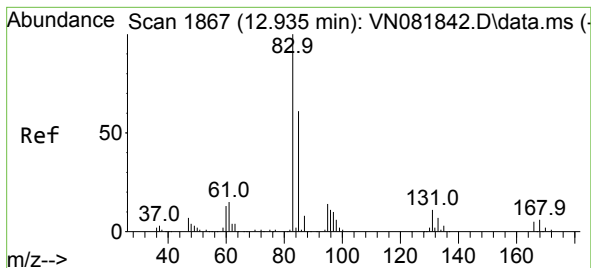


#74
 N-ethyl acetate
 Concen: 1.414 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.035 min
 Lab File: VN082056.D
 Acq: 09 May 2024 17:22



Tgt Ion: 43 Resp: 6576
 Ion Ratio Lower Upper
 43 100
 70 0.0 39.0 58.4#
 55 7.0 21.3 31.9#
 61 0.0 20.5 30.7#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.221 ug/l

RT: 12.953 min Scan# 1867

Delta R.T. 0.018 min

Lab File: VN082056.D

Acq: 09 May 2024 17:22

Instrument :

MSVOA_N

ClientSampleId :

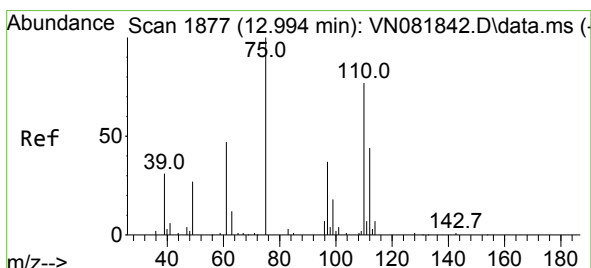
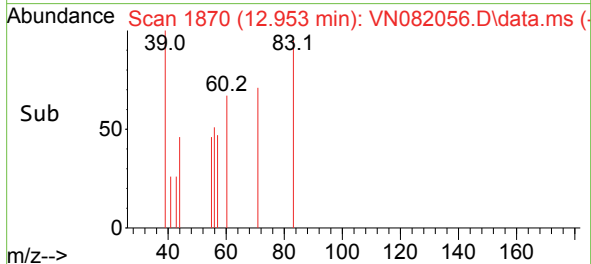
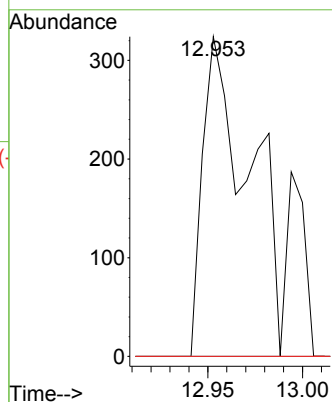
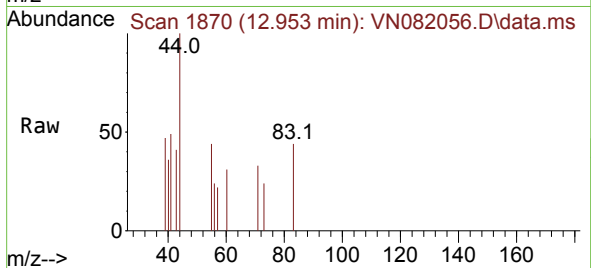
Tgt Ion: 83 Resp: 554

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 0.0 32.9 98.6#



#76

1,2,3-Trichloropropane

Concen: 28.345 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN082056.D

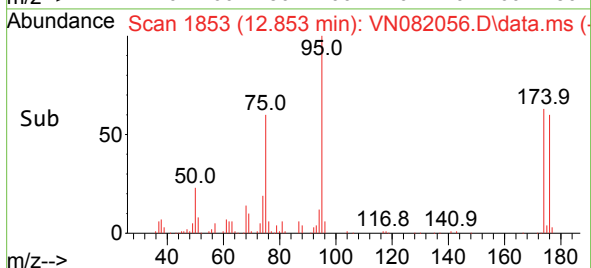
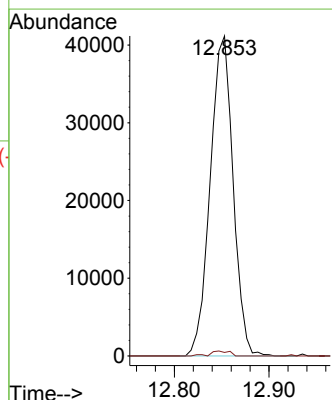
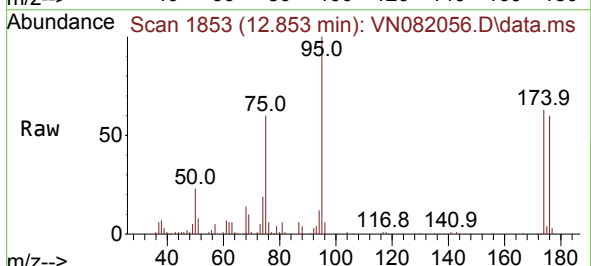
Acq: 09 May 2024 17:22

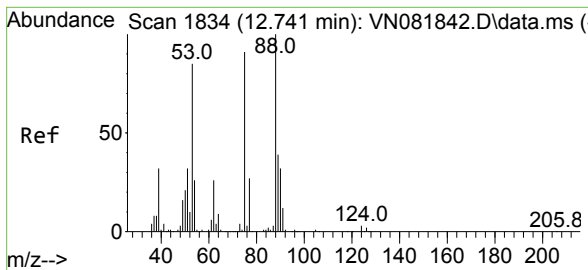
Tgt Ion: 75 Resp: 69054

Ion Ratio Lower Upper

75 100

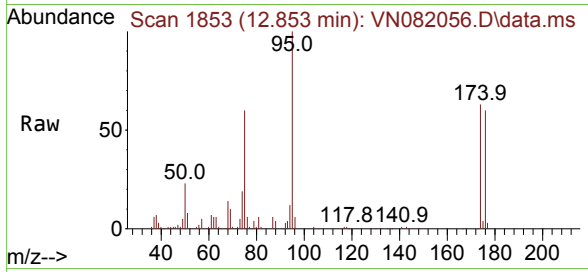
77 1.3 90.5 271.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.083 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN082056.D
 Acq: 09 May 2024 17:22

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 69054
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.9 109.3#
 89 0.0 39.1 58.7#

