

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022823\
 Data File : VN076829.D
 Acq On : 28 Feb 2023 15:46
 Operator : JC\MD
 Sample : PB151081ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151081ZHE#01

Quant Time: Mar 01 01:28:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

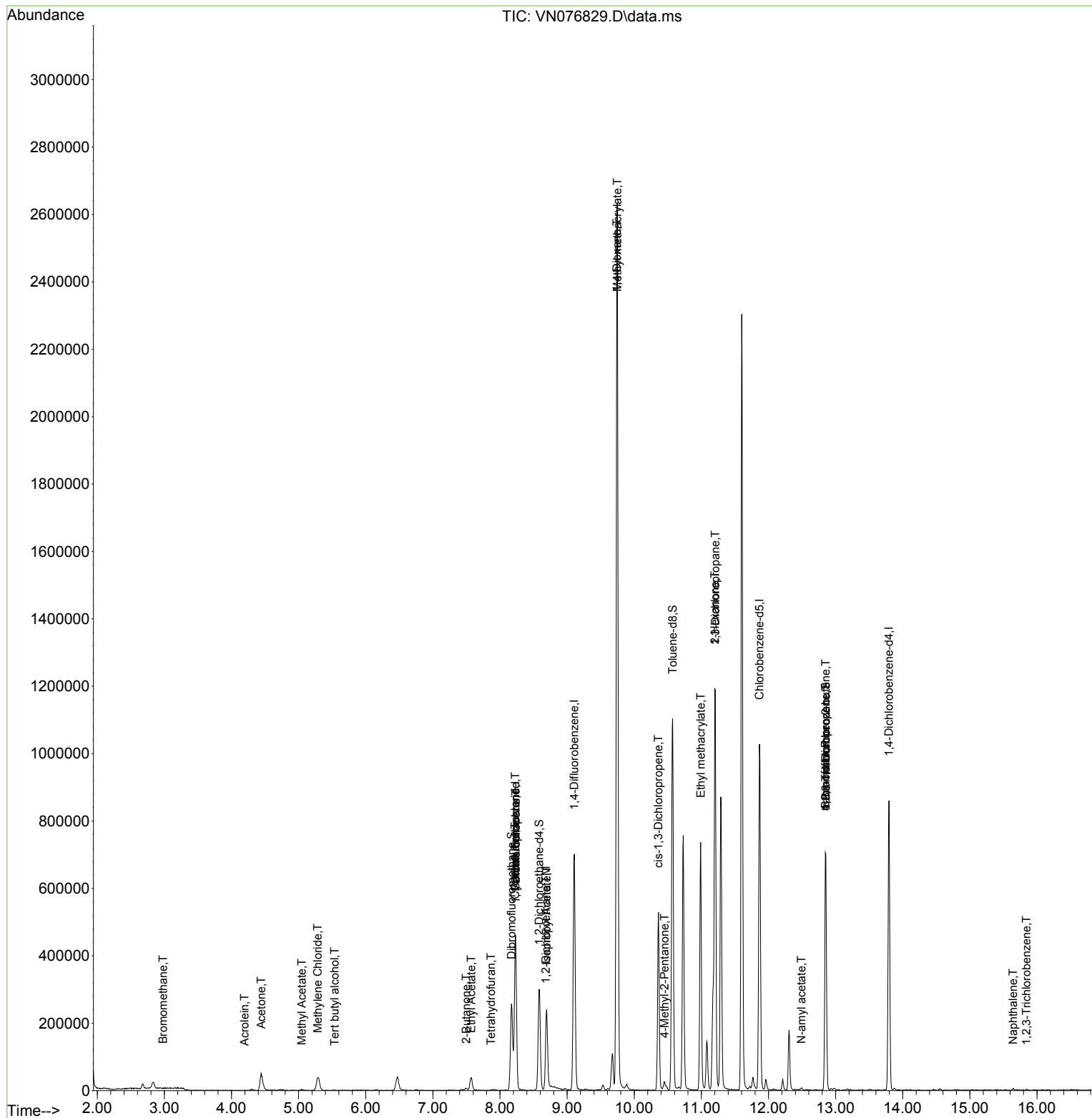
Internal Standards						
1) Pentafluorobenzene	8.230	168	330747	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	586865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	576380	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	207133	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	234739	51.398	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	=	102.800%	
35) Dibromofluoromethane	8.172	113	180494	46.964	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	=	93.920%	
50) Toluene-d8	10.571	98	753715	52.513	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	=	105.020%	
62) 4-Bromofluorobenzene	12.854	95	230592	48.508	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery	=	97.020%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.978	94	657	0.240	ug/l #	58
11) Tert butyl alcohol	5.537	59	1833	3.041	ug/l #	85
13) Acrolein	4.195	56	400	0.442	ug/l #	82
16) Acetone	4.442	43	92531	45.356	ug/l #	88
18) Methyl Acetate	5.048	43	4916	0.738	ug/l #	91
20) Methylene Chloride	5.284	84	28747	6.723	ug/l	95
25) 2-Butanone	7.495	43	10202	3.390	ug/l	96
29) Tetrahydrofuran	7.866	42	1041	0.529	ug/l #	64
31) Cyclohexane	8.225	56	9075	1.267	ug/l #	28
36) 1,1-Dichloropropene	8.236	75	29847	5.375	ug/l #	50
37) Ethyl Acetate	7.572	43	61879	10.591	ug/l	96
38) Carbon Tetrachloride	8.230	117	33294	5.944	ug/l #	16
42) 1,2-Dichloroethane	8.683	62	1856	0.312	ug/l #	74
43) Isopropyl Acetate	8.695	43	279209	29.369	ug/l #	88
48) Methyl methacrylate	9.748	41	252120	55.887	ug/l #	44
49) 1,4-Dioxane	9.742	88	310	3.973	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	25313	4.185	ug/l #	78
54) cis-1,3-Dichloropropene	10.360	75	85778	13.316	ug/l #	69
56) Ethyl methacrylate	10.989	69	3315	0.563	ug/l #	1
57) 1,3-Dichloropropane	11.207	76	12622	1.755	ug/l #	42
59) 2-Hexanone	11.201	43	177976	40.808	ug/l #	56
71) Bromoform	12.848	173	2022	0.621	ug/l #	1
74) N-amyl acetate	12.489	43	3785	0.553	ug/l #	53
76) 1,2,3-Trichloropropane	12.854	75	133670	31.920	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	133670	92.969	ug/l #	4
95) Naphthalene	15.642	128	3608	0.325	ug/l	95
96) 1,2,3-Trichlorobenzene	15.842	180	727	0.205	ug/l	93

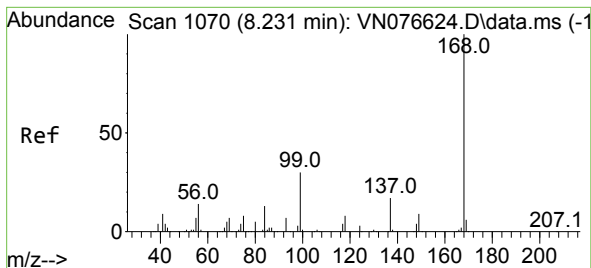
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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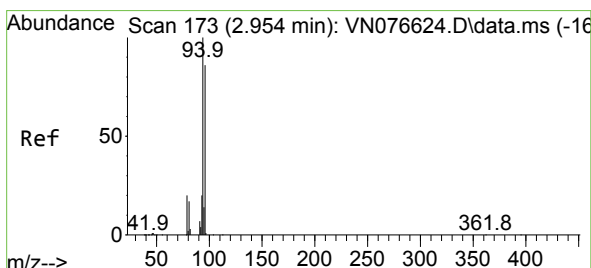
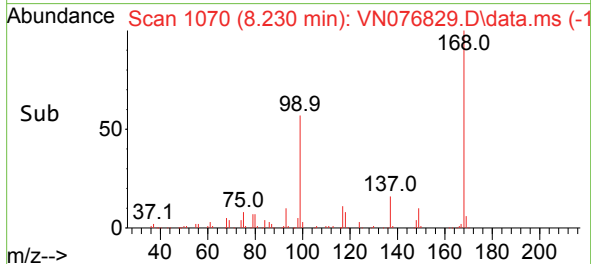
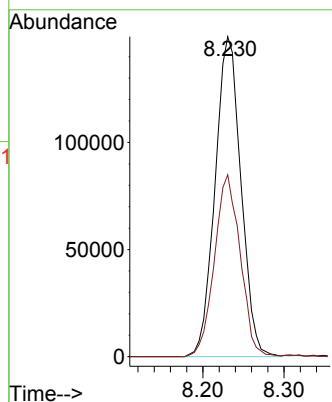
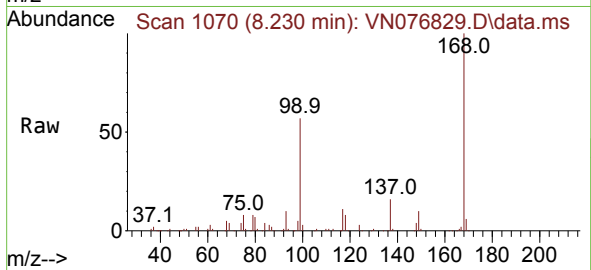




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

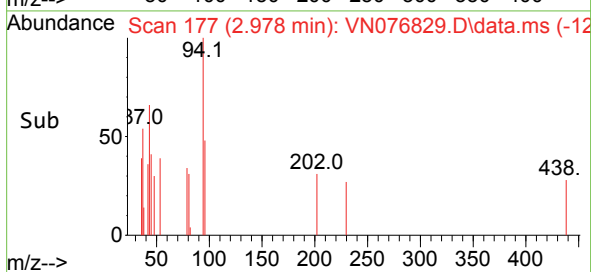
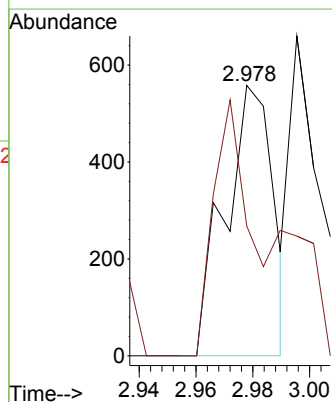
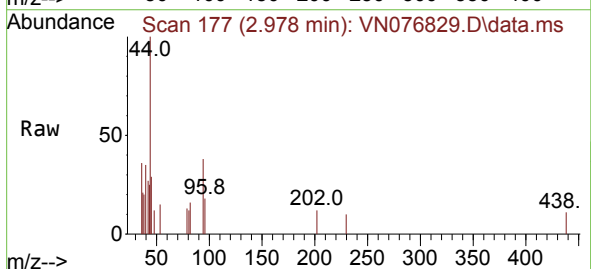
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

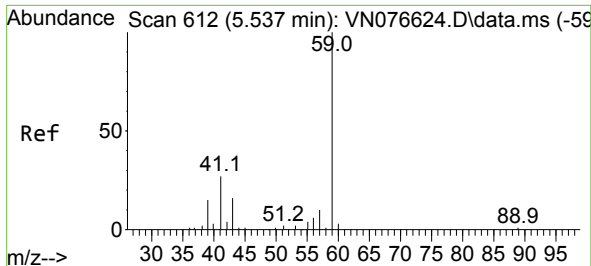
Tgt Ion:168 Resp: 330747
Ion Ratio Lower Upper
168 100
99 56.9 44.8 67.2



#5
Bromomethane
Concen: 0.240 ug/l
RT: 2.978 min Scan# 177
Delta R.T. 0.024 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 94 Resp: 657
Ion Ratio Lower Upper
94 100
96 48.0 69.0 103.4#

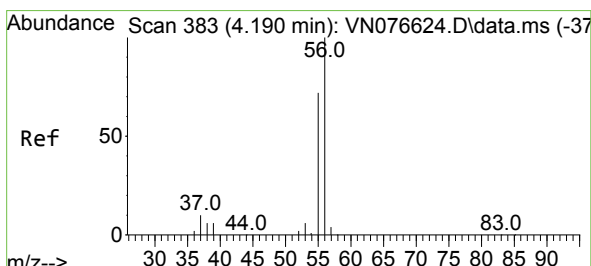
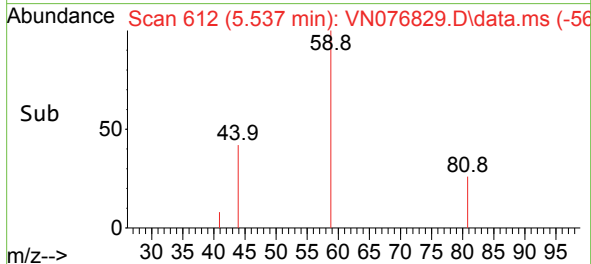
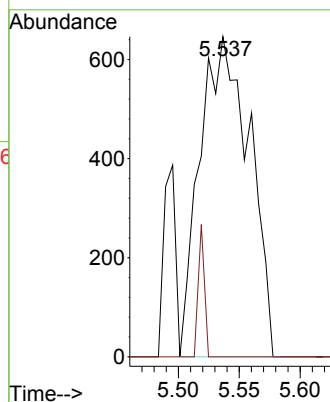
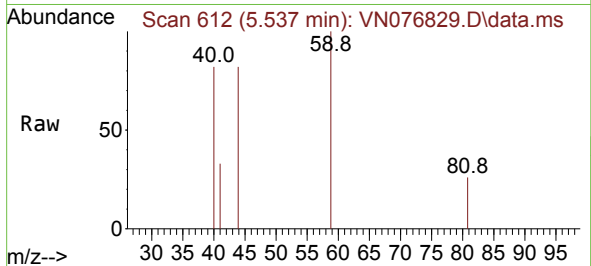




#11
Tert butyl alcohol
Concen: 3.041 ug/l
RT: 5.537 min Scan# 612
Delta R.T. -0.000 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

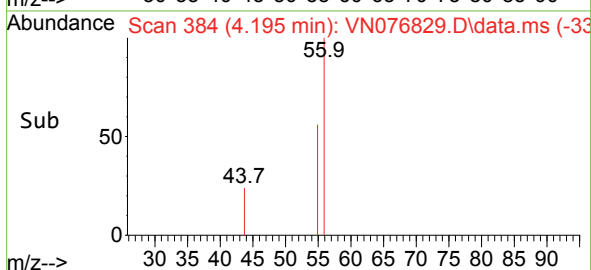
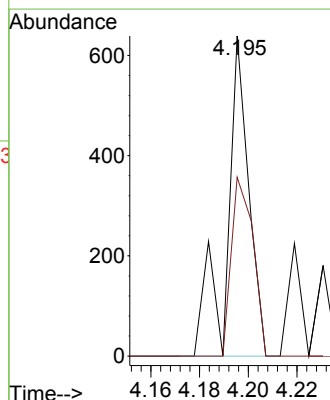
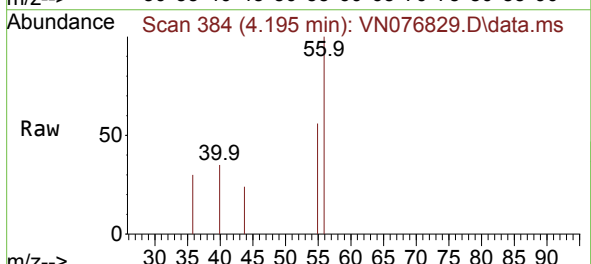
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

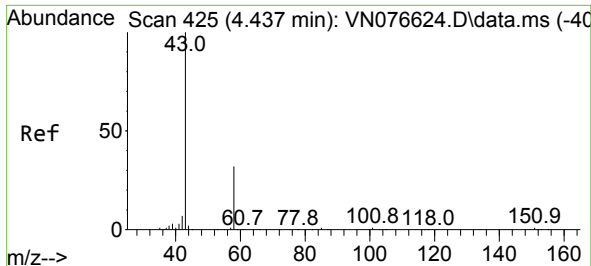
Tgt Ion: 59 Resp: 1833
Ion Ratio Lower Upper
59 100
57 5.1 8.7 13.1#



#13
Acrolein
Concen: 0.442 ug/l
RT: 4.195 min Scan# 384
Delta R.T. 0.005 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 56 Resp: 400
Ion Ratio Lower Upper
56 100
55 55.3 56.3 84.5#

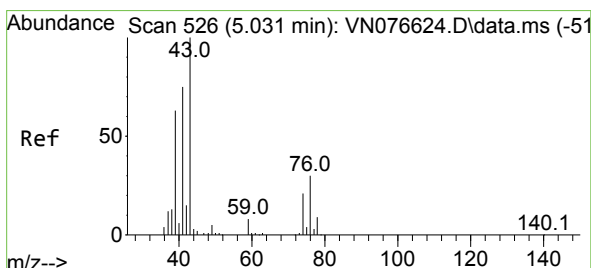
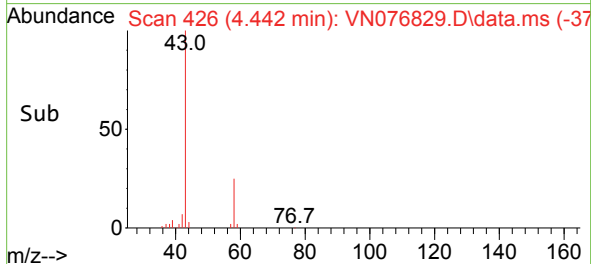
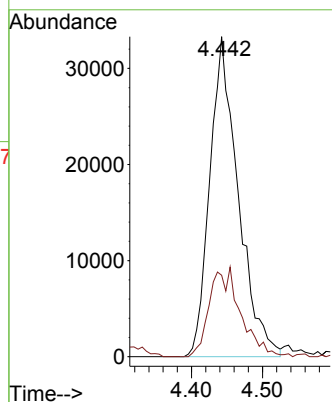
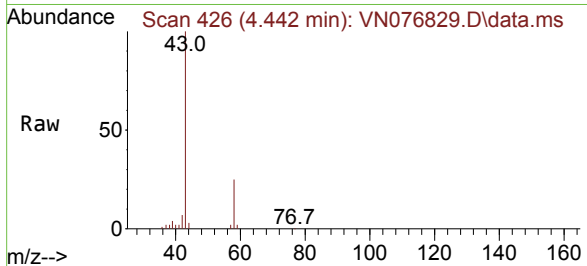




#16
Acetone
Concen: 45.356 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

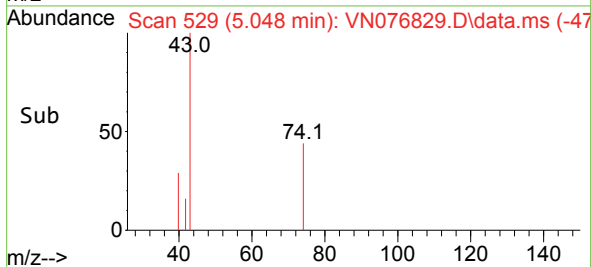
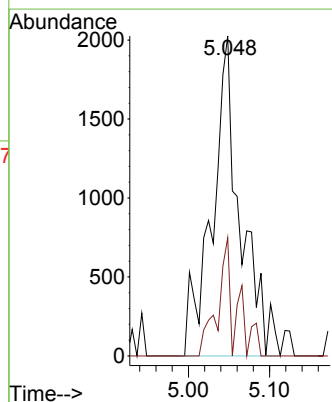
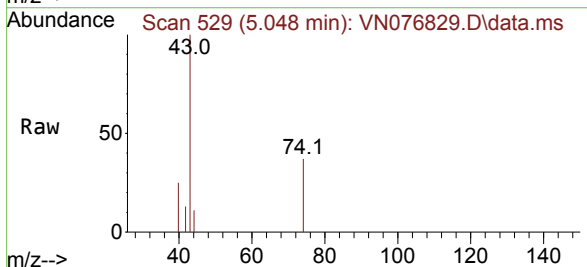
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

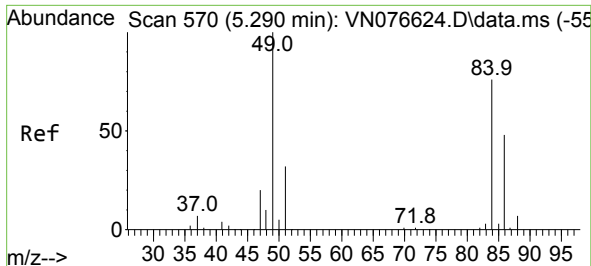
Tgt Ion: 43 Resp: 92531
Ion Ratio Lower Upper
43 100
58 25.4 25.9 38.9#



#18
Methyl Acetate
Concen: 0.738 ug/l
RT: 5.048 min Scan# 529
Delta R.T. 0.017 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

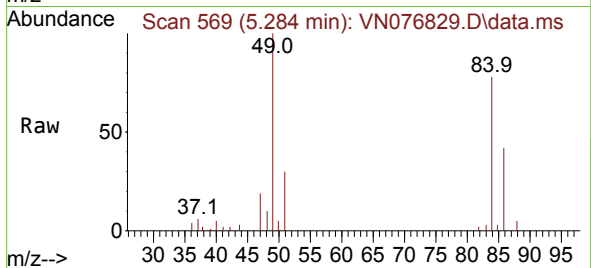
Tgt Ion: 43 Resp: 4916
Ion Ratio Lower Upper
43 100
74 17.6 17.7 26.5#



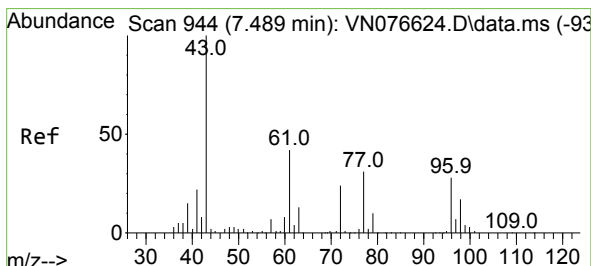
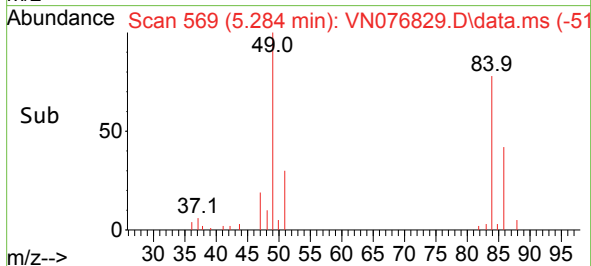
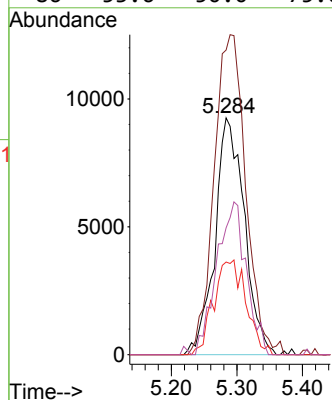


#20
Methylene Chloride
Concen: 6.723 ug/l
RT: 5.284 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

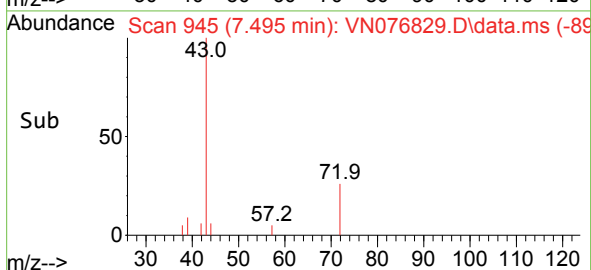
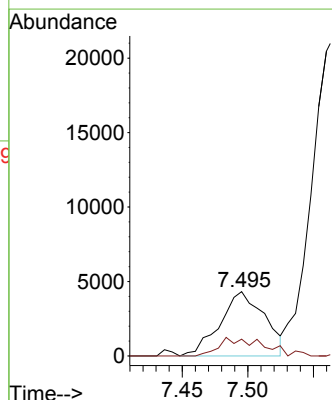
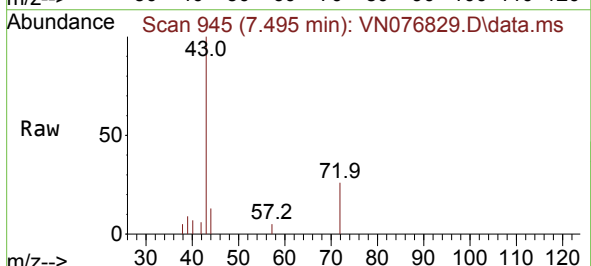


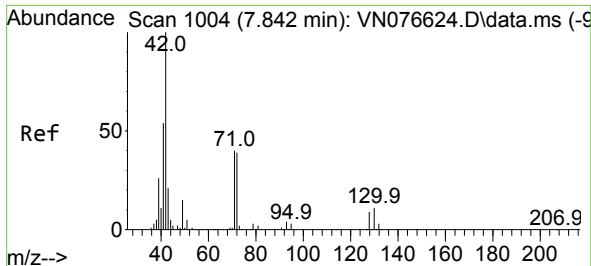
Tgt Ion: 84	Resp: 28747		
Ion	Ratio	Lower	Upper
84	100		
49	128.6	104.9	157.3
51	39.1	33.8	50.8
86	53.6	50.0	75.0



#25
2-Butanone
Concen: 3.390 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 43	Resp: 10202		
Ion Ratio	Lower	Upper	
43 100			
72 26.1	19.4	29.2	





#29

Tetrahydrofuran

Concen: 0.529 ug/l

RT: 7.866 min Scan# 1041

Delta R.T. 0.024 min

Lab File: VN076829.D

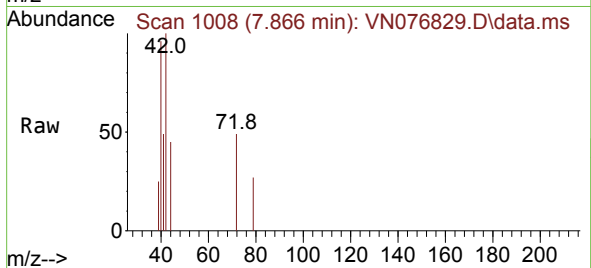
Acq: 28 Feb 2023 15:46

Instrument :

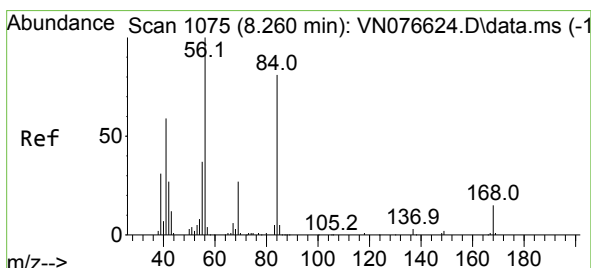
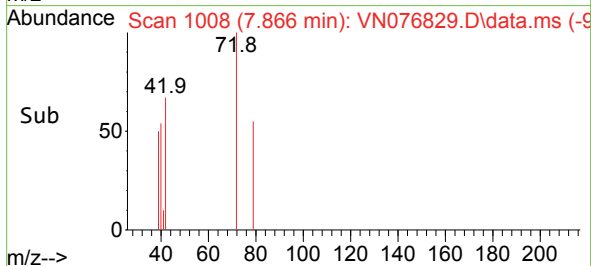
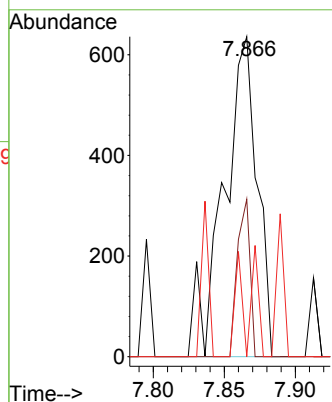
MSVOA_N

ClientSampleId :

PB151081ZHE#01



Tgt Ion:	42	Resp:	1041
Ion	Ratio	Lower	Upper
42	100		
72	18.5	31.5	47.3#
71	14.6	29.8	44.8#



#31

Cyclohexane

Concen: 1.267 ug/l

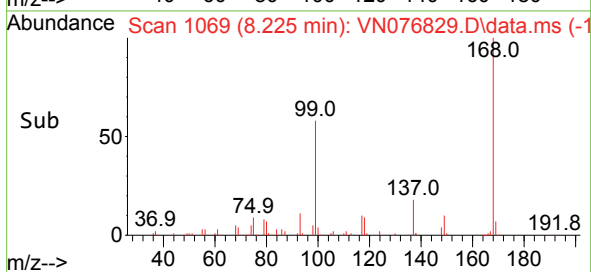
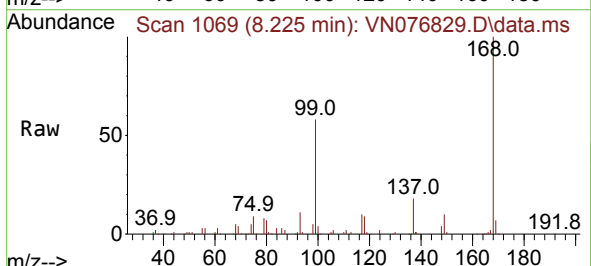
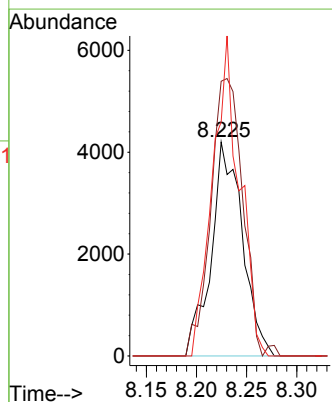
RT: 8.225 min Scan# 1069

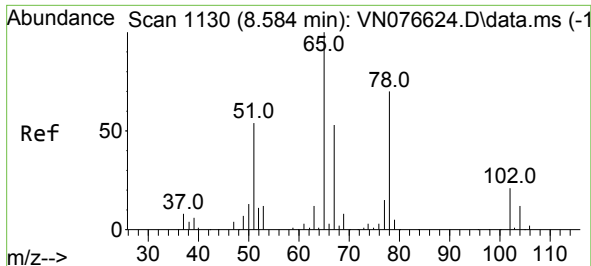
Delta R.T. -0.035 min

Lab File: VN076829.D

Acq: 28 Feb 2023 15:46

Tgt Ion:	56	Resp:	9075
Ion	Ratio	Lower	Upper
56	100		
69	128.4	21.6	32.4#
84	109.4	65.1	97.7#





#33

1,2-Dichloroethane-d4

Concen: 51.398 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN076829.D

Acq: 28 Feb 2023 15:46

Instrument :

MSVOA_N

ClientSampleId :

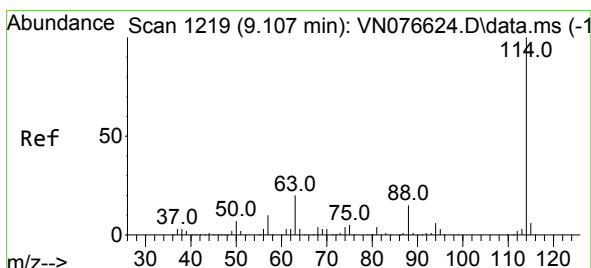
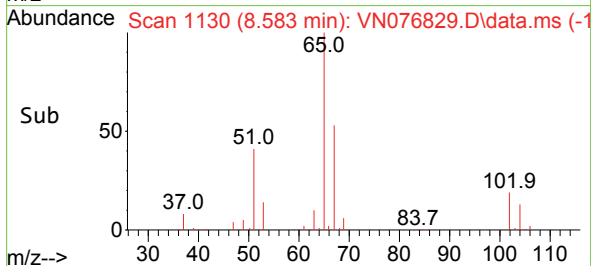
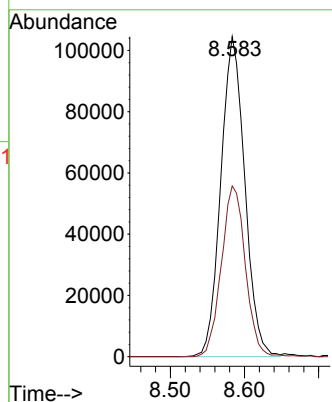
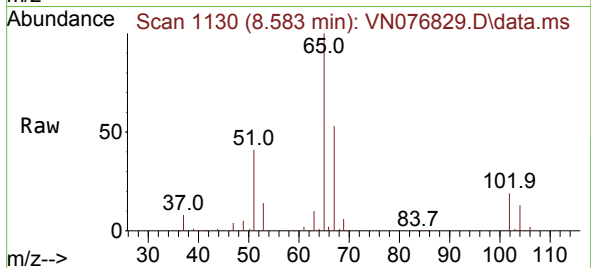
PB151081ZHE#01

Tgt Ion: 65 Resp: 234739

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076829.D

Acq: 28 Feb 2023 15:46

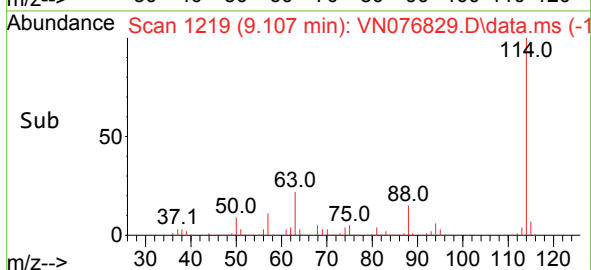
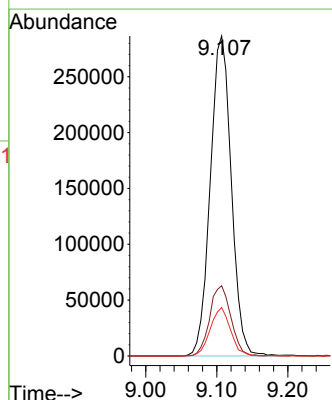
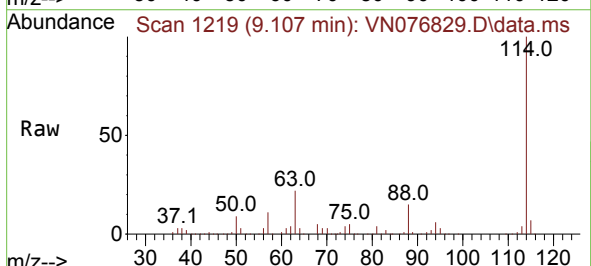
Tgt Ion: 114 Resp: 586865

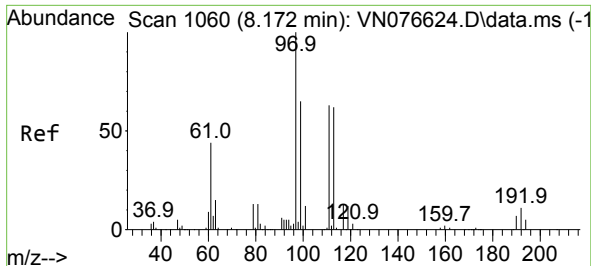
Ion Ratio Lower Upper

114 100

63 21.9 0.0 40.0

88 15.2 0.0 29.6

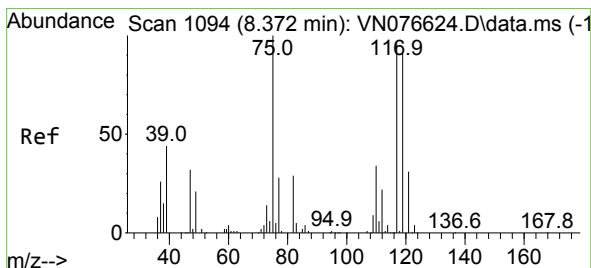
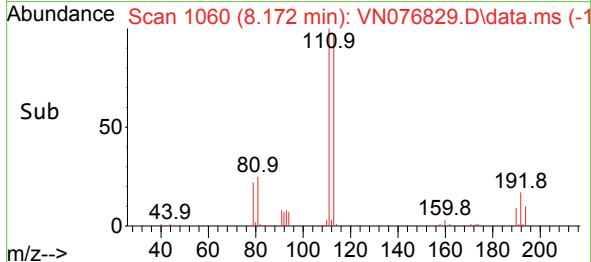
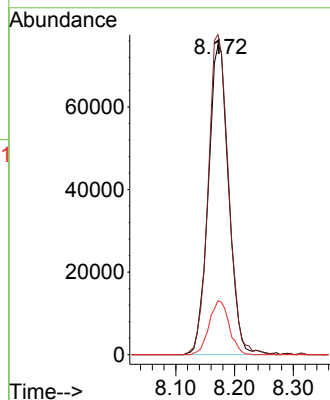
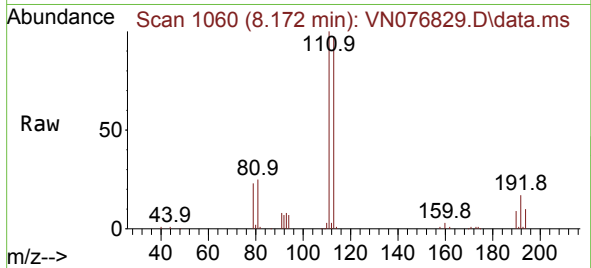




#35
Dibromofluoromethane
Concen: 46.964 ug/l
RT: 8.172 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

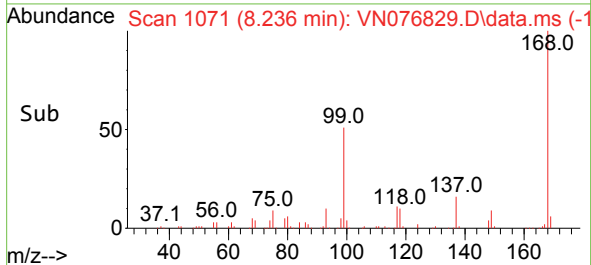
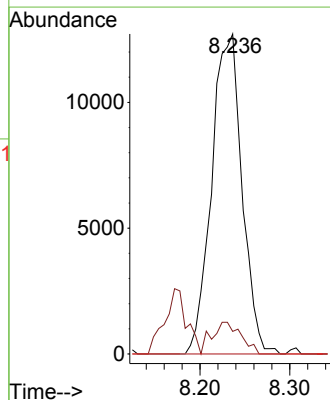
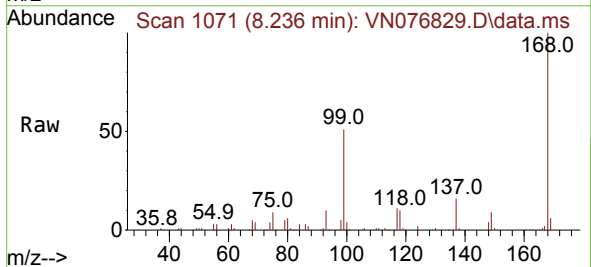
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

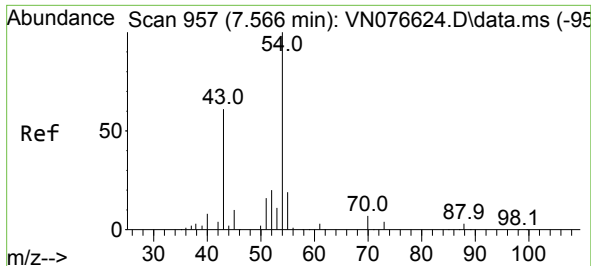
Tgt Ion:113 Resp: 180494
Ion Ratio Lower Upper
113 100
111 103.4 83.1 124.7
192 17.1 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.375 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.136 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 75 Resp: 29847
Ion Ratio Lower Upper
75 100
110 9.5 17.5 52.5#
77 0.0 24.5 36.7#

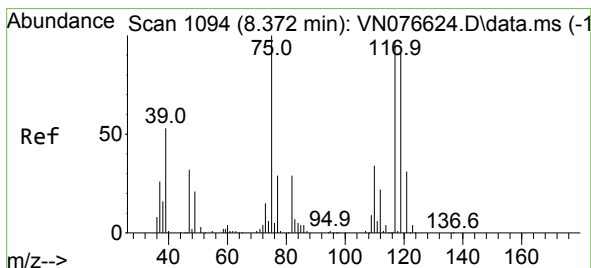
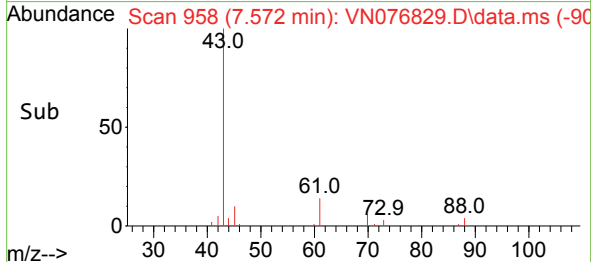
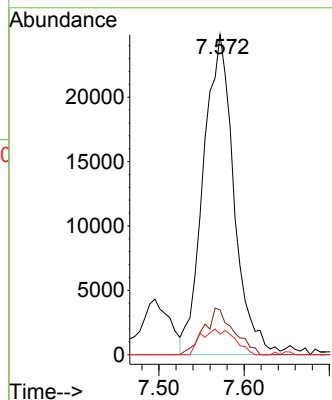
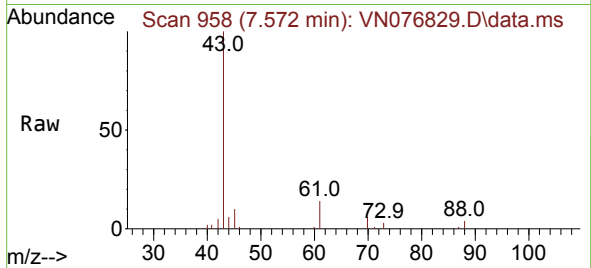




#37
Ethyl Acetate
Concen: 10.591 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

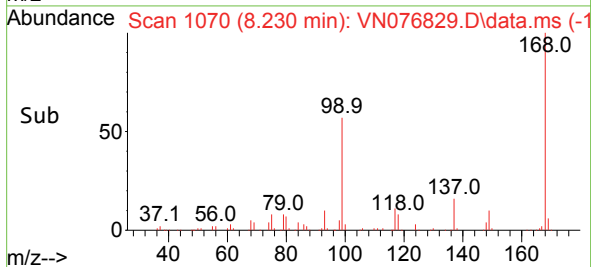
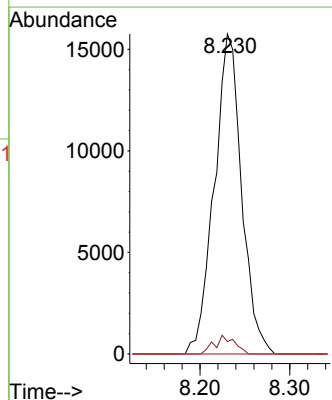
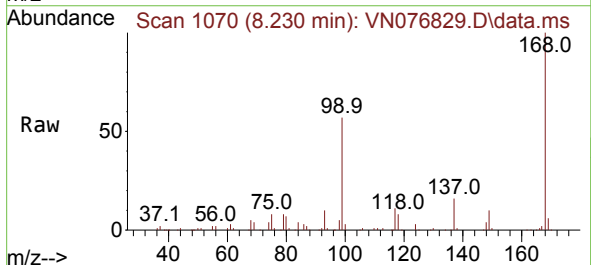
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

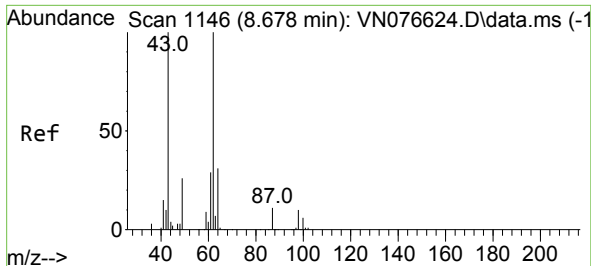
Tgt Ion: 43 Resp: 61879
Ion Ratio Lower Upper
43 100
61 14.1 9.9 14.9
70 8.7 7.8 11.6



#38
Carbon Tetrachloride
Concen: 5.944 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.142 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 117 Resp: 33294
Ion Ratio Lower Upper
117 100
119 3.9 75.4 113.0#
121 0.0 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 0.312 ug/l

RT: 8.683 min Scan# 1147

Delta R.T. 0.005 min

Lab File: VN076829.D

Acq: 28 Feb 2023 15:46

Instrument :

MSVOA_N

ClientSampleId :

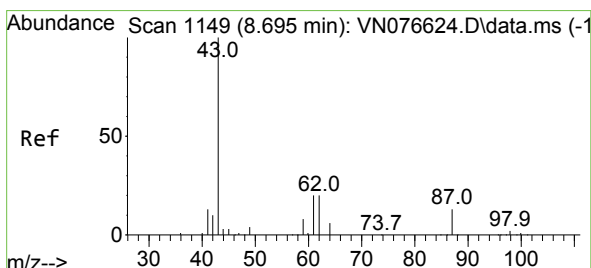
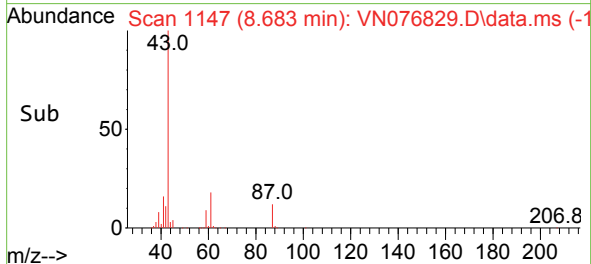
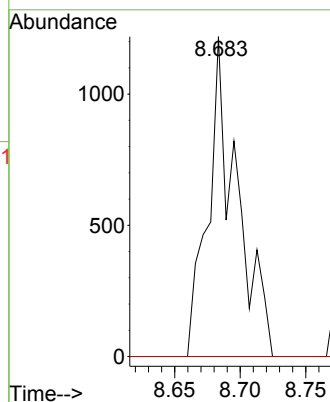
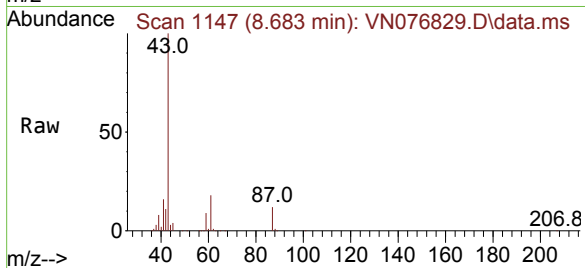
PB151081ZHE#01

Tgt Ion: 62 Resp: 1856

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.2



#43

Isopropyl Acetate

Concen: 29.369 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN076829.D

Acq: 28 Feb 2023 15:46

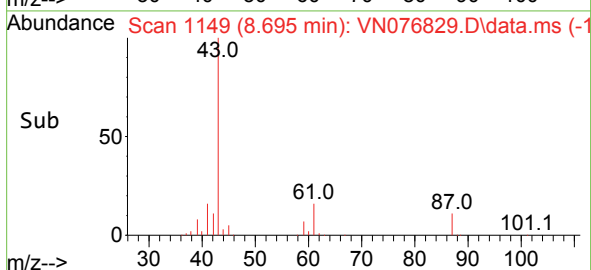
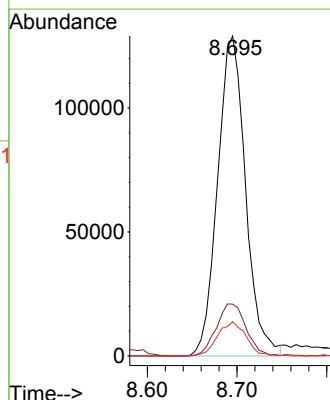
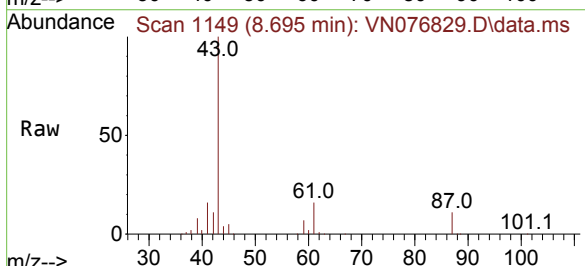
Tgt Ion: 43 Resp: 279209

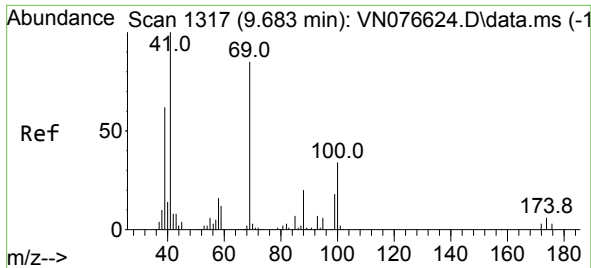
Ion Ratio Lower Upper

43 100

61 17.3 20.0 30.0#

87 10.9 9.9 14.9

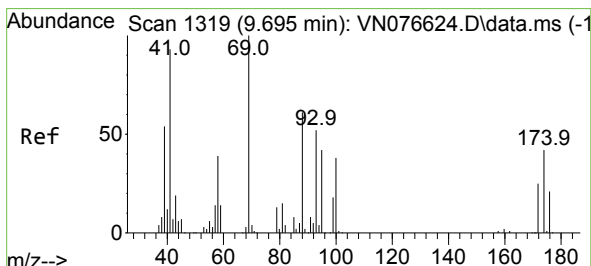
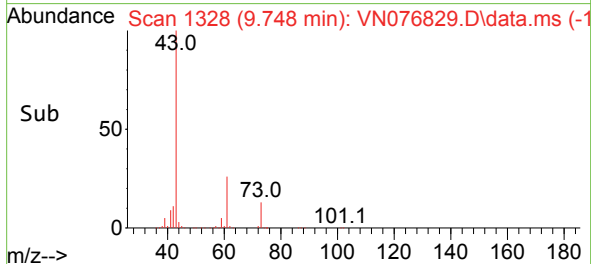
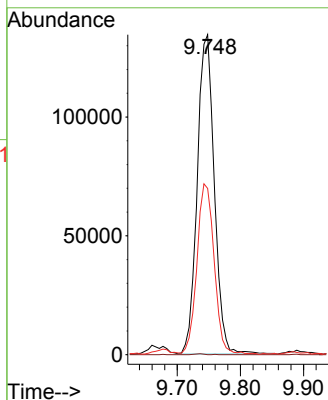
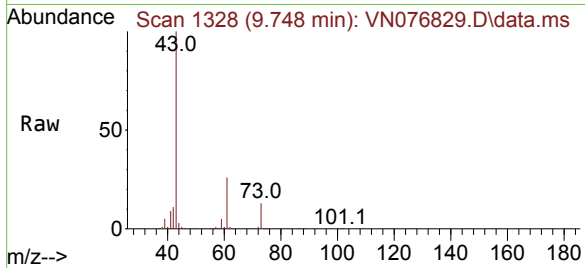




#48
Methyl methacrylate
Concen: 55.887 ug/l
RT: 9.748 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

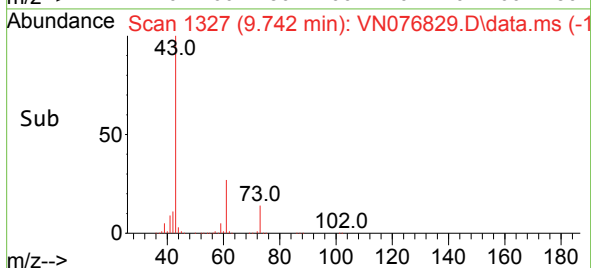
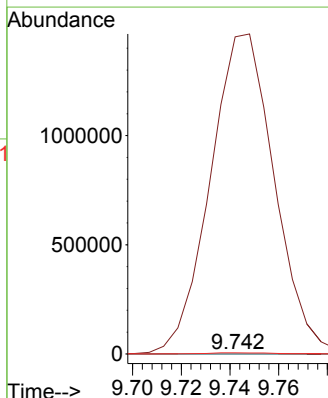
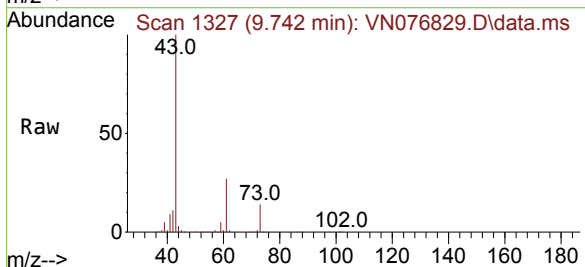
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

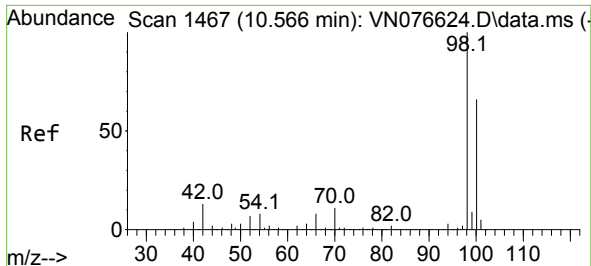
Tgt Ion: 41 Resp: 252120
Ion Ratio Lower Upper
41 100
69 0.2 65.4 98.0#
39 54.0 49.3 73.9



#49
1,4-Dioxane
Concen: 3.973 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.047 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 88 Resp: 310
Ion Ratio Lower Upper
88 100
43 872356.8 22.6 33.8#
58 3679.0 57.6 86.4#

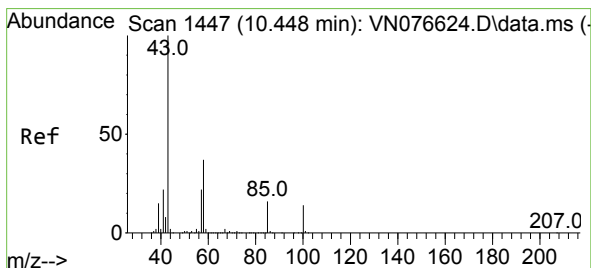
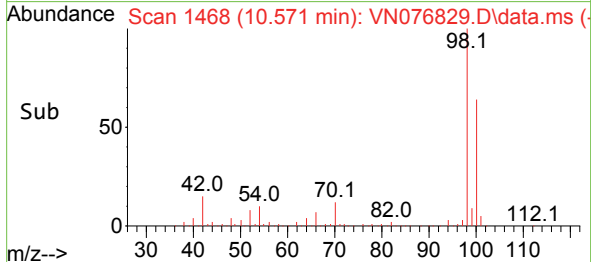
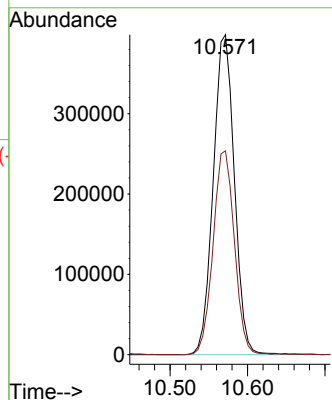
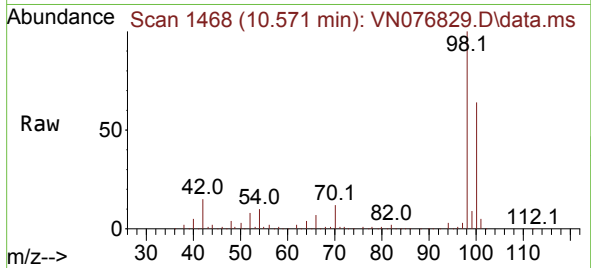




#50
Toluene-d8
Concen: 52.513 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.005 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

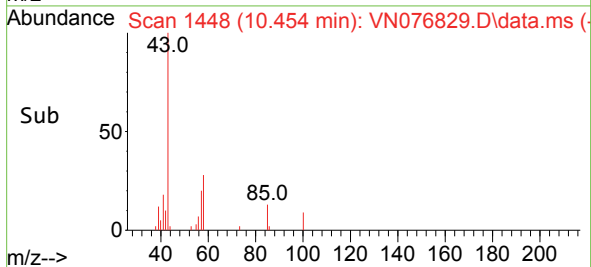
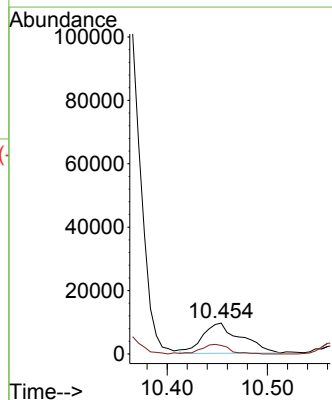
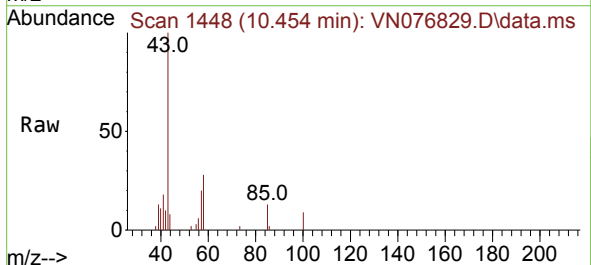
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

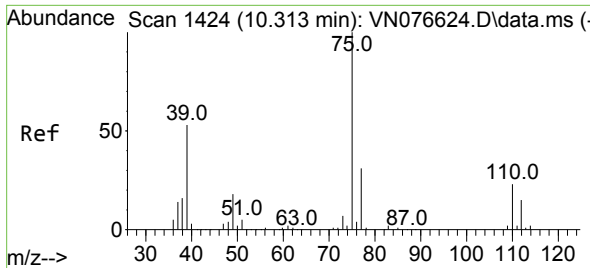
Tgt Ion: 98 Resp: 753715
Ion Ratio Lower Upper
98 100
100 64.4 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 4.185 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 43 Resp: 25313
Ion Ratio Lower Upper
43 100
58 23.7 29.5 44.3#

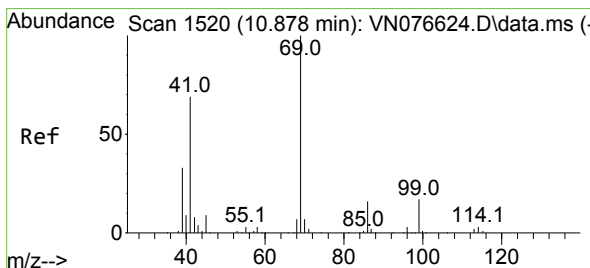
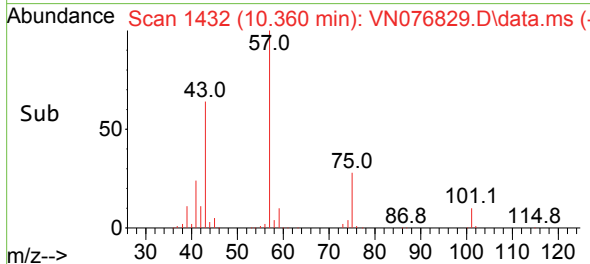
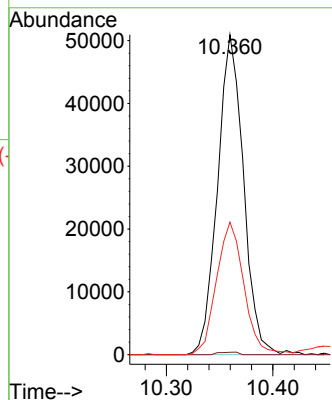
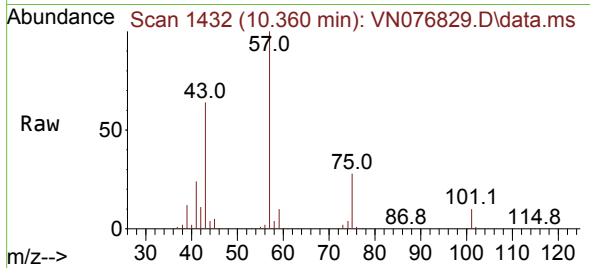




#54
 cis-1,3-Dichloropropene
 Concen: 13.316 ug/l
 RT: 10.360 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN076829.D
 Acq: 28 Feb 2023 15:46

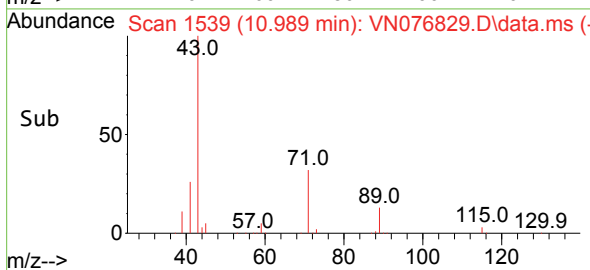
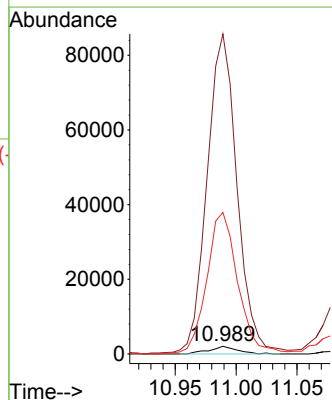
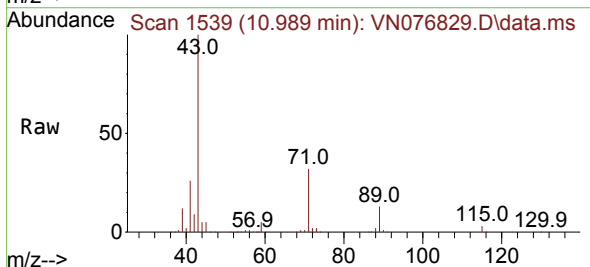
Instrument :
 MSVOA_N
 ClientSampleId :
 PB151081ZHE#01

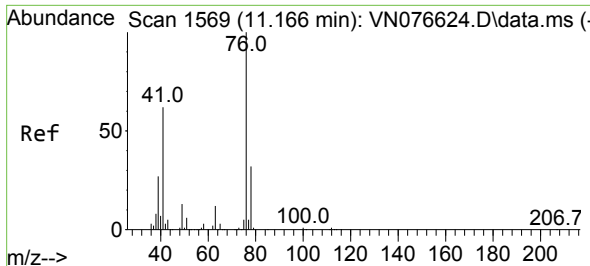
Tgt Ion: 75 Resp: 85778
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.1 37.7#
 39 41.4 42.3 63.5#



#56
 Ethyl methacrylate
 Concen: 0.563 ug/l
 RT: 10.989 min Scan# 1539
 Delta R.T. 0.111 min
 Lab File: VN076829.D
 Acq: 28 Feb 2023 15:46

Tgt Ion: 69 Resp: 3315
 Ion Ratio Lower Upper
 69 100
 41 4449.5 55.1 82.7#
 39 2032.1 30.7 46.1#





#57

1,3-Dichloropropane

Concen: 1.755 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN076829.D

Acq: 28 Feb 2023 15:46

Instrument :

MSVOA_N

ClientSampleId :

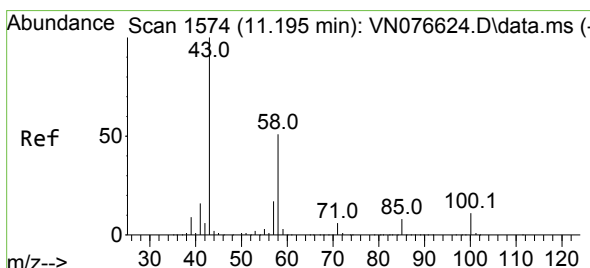
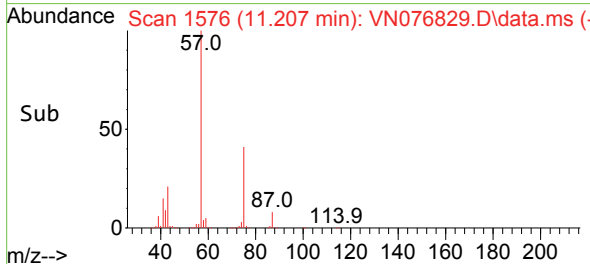
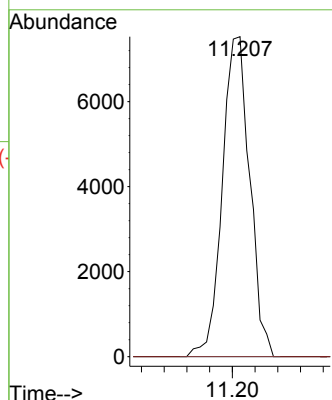
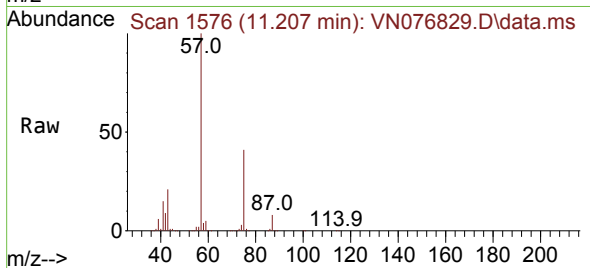
PB151081ZHE#01

Tgt Ion: 76 Resp: 12622

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 40.808 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.006 min

Lab File: VN076829.D

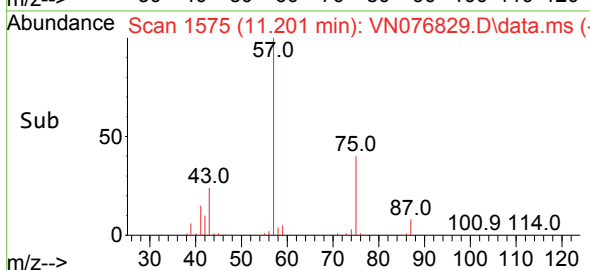
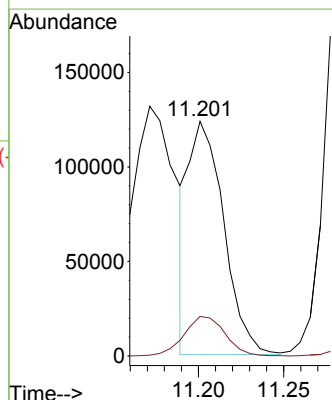
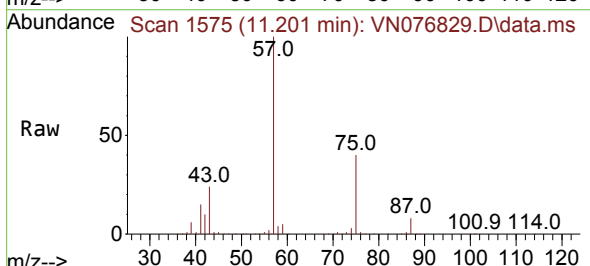
Acq: 28 Feb 2023 15:46

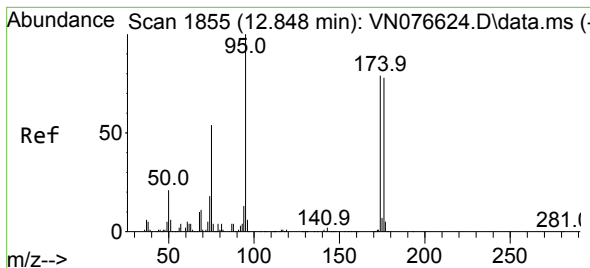
Tgt Ion: 43 Resp: 177976

Ion Ratio Lower Upper

43 100

58 19.9 25.4 76.0#

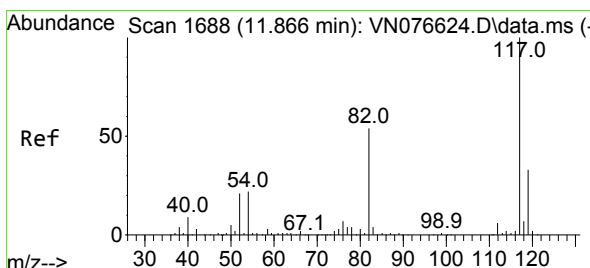
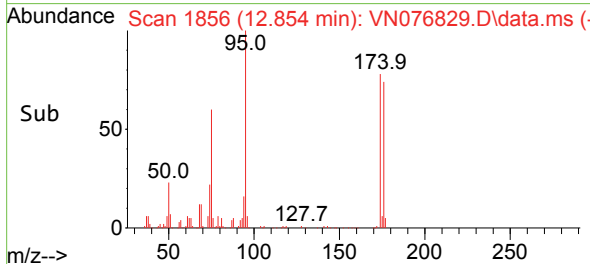
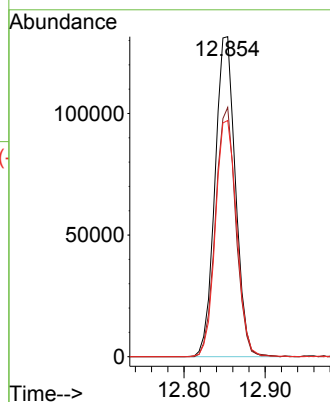
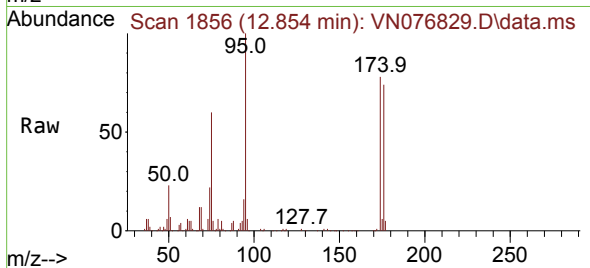




#62
4-Bromofluorobenzene
Concen: 48.508 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

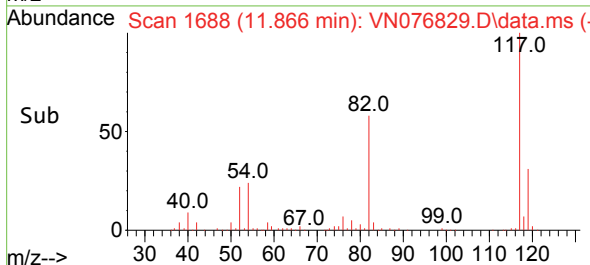
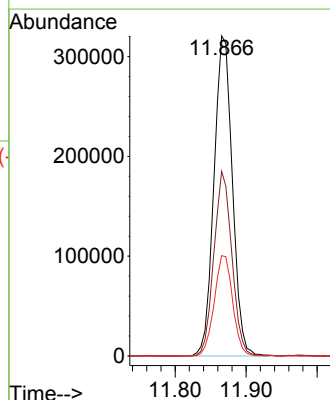
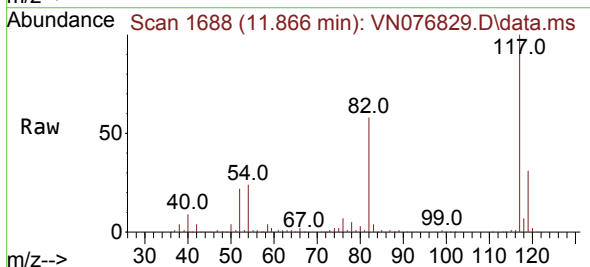
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

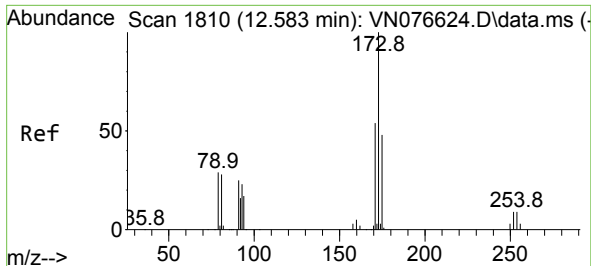
Tgt Ion: 95 Resp: 230592
Ion Ratio Lower Upper
95 100
174 77.4 0.0 169.2
176 76.4 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion: 117 Resp: 576380
Ion Ratio Lower Upper
117 100
82 57.7 43.4 65.2
119 31.3 26.1 39.1

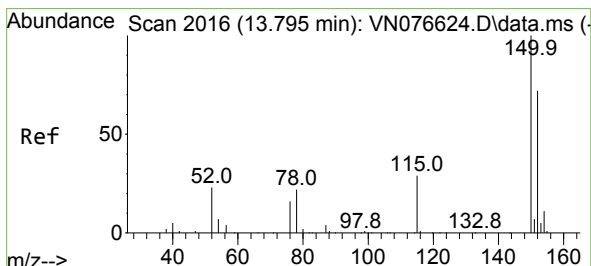
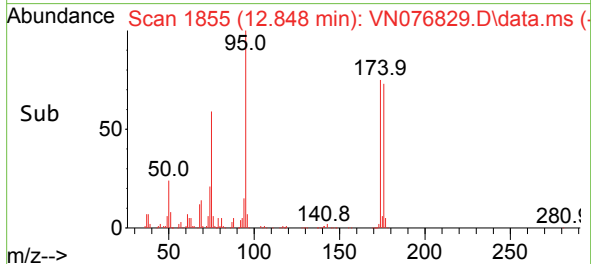
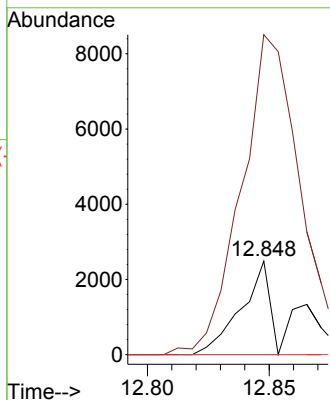
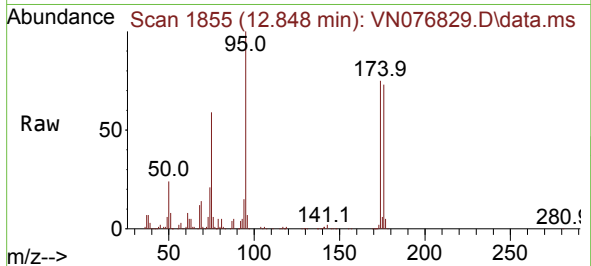




#71
Bromoform
Concen: 0.621 ug/l
RT: 12.848 min Scan# 1810
Delta R.T. 0.265 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

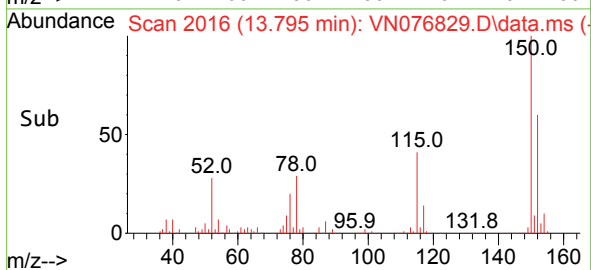
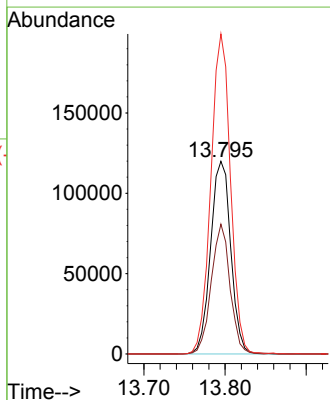
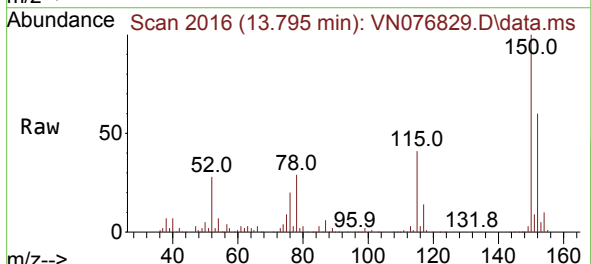
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

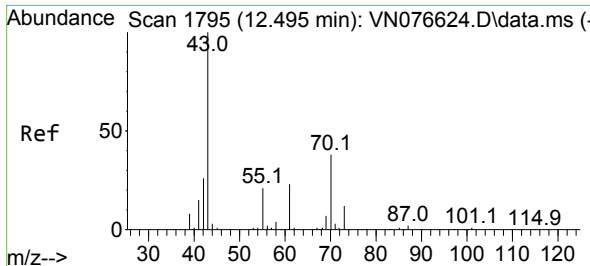
Tgt Ion:173 Resp: 2022
Ion Ratio Lower Upper
173 100
175 596.8 24.9 74.7#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion:152 Resp: 207133
Ion Ratio Lower Upper
152 100
115 62.6 29.3 87.9
150 161.4 0.0 349.8

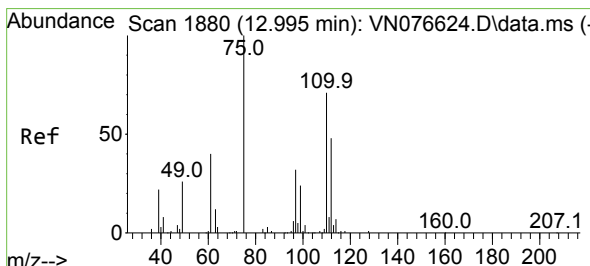
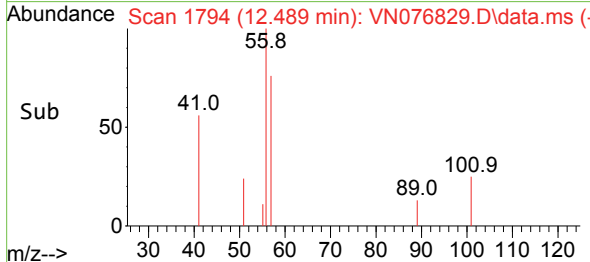
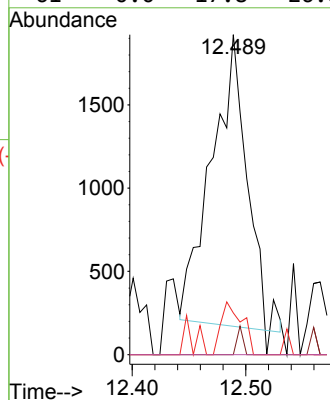
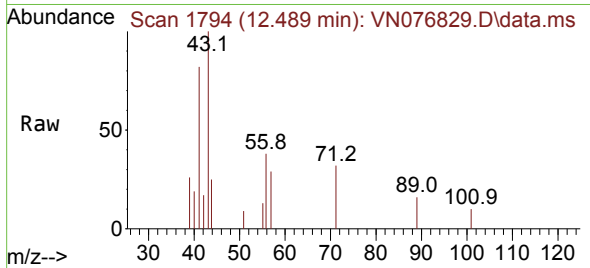




#74
N-amy1 acetate
Concen: 0.553 ug/l
RT: 12.489 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

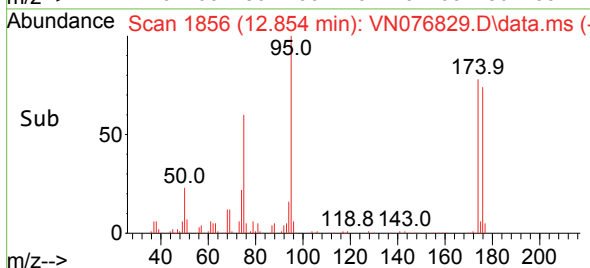
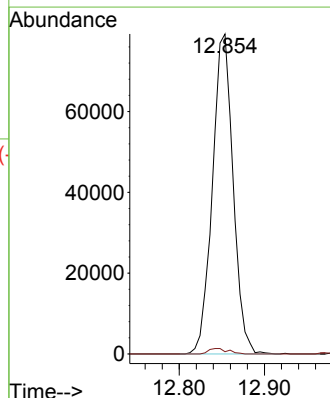
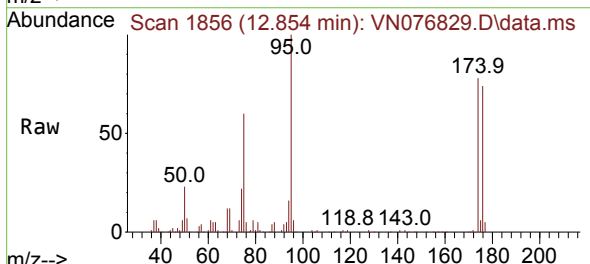
Instrument :
MSVOA_N
ClientSampleId :
PB151081ZHE#01

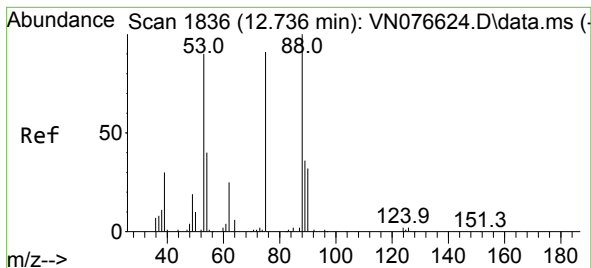
Tgt Ion:	43	Resp:	3785
Ion	Ratio	Lower	Upper
43	100		
70	1.6	30.5	45.7#
55	10.8	17.8	26.8#
61	0.0	17.8	26.8#



#76
1,2,3-Trichloropropane
Concen: 31.920 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076829.D
Acq: 28 Feb 2023 15:46

Tgt Ion:	75	Resp:	133670
Ion	Ratio	Lower	Upper
75	100		
77	1.6	93.1	279.3#

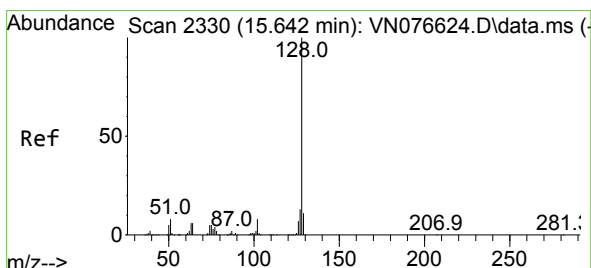
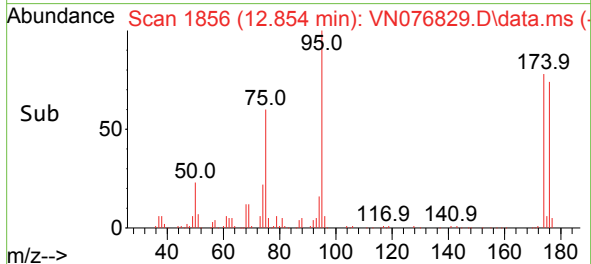
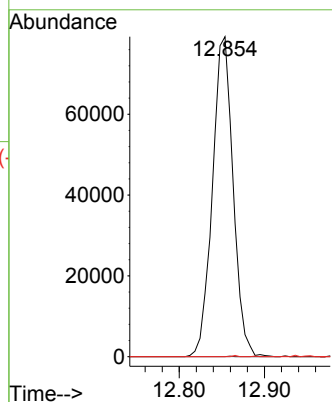
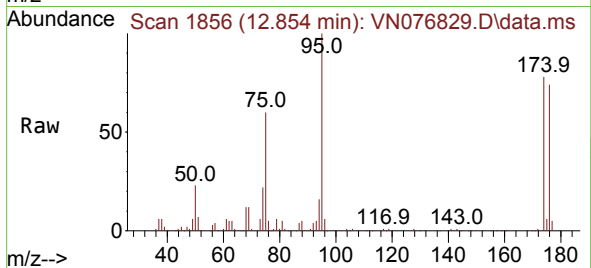




#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.969 ug/l
 RT: 12.854 min Scan# 1856
 Delta R.T. 0.118 min
 Lab File: VN076829.D
 Acq: 28 Feb 2023 15:46

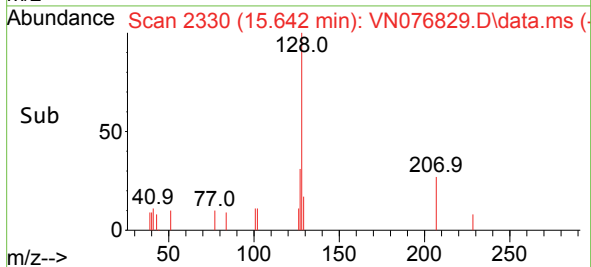
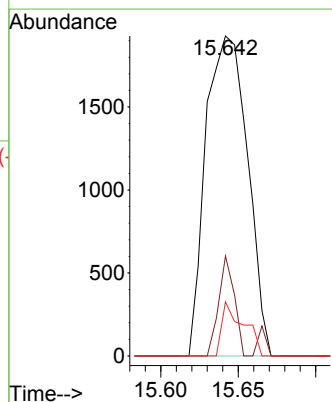
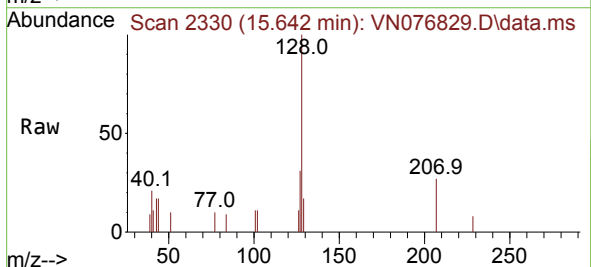
Instrument :
 MSVOA_N
 ClientSampleId :
 PB151081ZHE#01

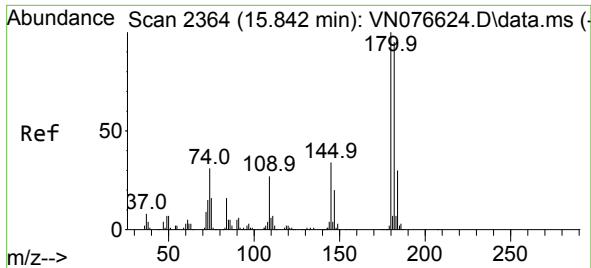
Tgt Ion: 75 Resp: 133670
 Ion Ratio Lower Upper
 75 100
 53 0.0 92.1 138.1#
 89 0.1 37.5 56.3#



#95
 Naphthalene
 Concen: 0.325 ug/l
 RT: 15.642 min Scan# 2330
 Delta R.T. -0.000 min
 Lab File: VN076829.D
 Acq: 28 Feb 2023 15:46

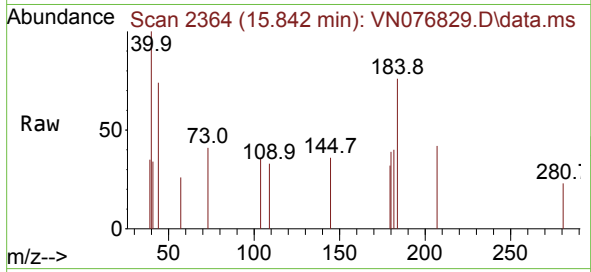
Tgt Ion:128 Resp: 3608
 Ion Ratio Lower Upper
 128 100
 127 11.7 10.6 16.0
 129 8.8 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.205 ug/l
 RT: 15.842 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN076829.D
 Acq: 28 Feb 2023 15:46

Instrument :
 MSVOA_N
 ClientSampleId :
 PB151081ZHE#01



Tgt Ion:	180	Resp:	727
Ion	Ratio	Lower	Upper
180	100		
182	100.3	46.7	140.1
145	28.6	16.0	47.9

