

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080922\
 Data File : VN073784.D
 Acq On : 09 Aug 2022 12:58
 Operator : JC\MD
 Sample : PB146833ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146833ZHE#01

Quant Time: Aug 09 21:07:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

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

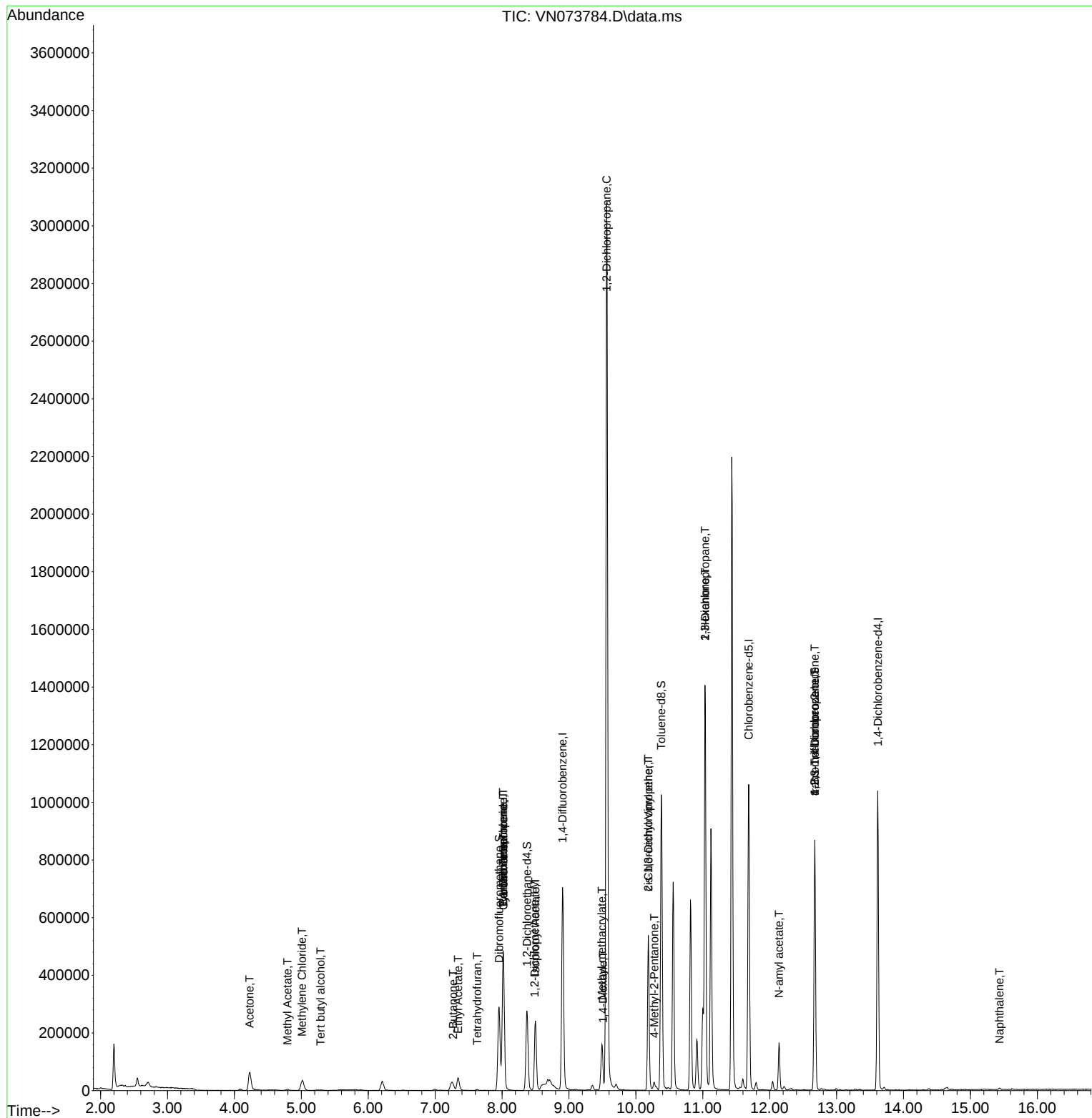
Internal Standards						
1) Pentafluorobenzene	8.016	168	393207	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	645893	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	640696	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	296092	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	226981	47.368	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.740%		
35) Dibromofluoromethane	7.957	113	217123	53.534	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	107.060%		
50) Toluene-d8	10.380	98	739452	46.331	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.660%		
62) 4-Bromofluorobenzene	12.674	95	277883	51.761	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.520%		
Target Compounds					Qvalue	
3) Chloromethane	2.263	50	1700	Below Cal	#	86
6) Chloroethane	2.910	64	1620	Below Cal	#	42
11) Tert butyl alcohol	5.287	59	1197	1.158	ug/l #	72
16) Acetone	4.228	43	117653	45.713	ug/l	100
18) Methyl Acetate	4.792	43	8314	1.298	ug/l #	88
20) Methylene Chloride	5.010	84	30238	5.292	ug/l	98
25) 2-Butanone	7.269	43	24288	6.077	ug/l	95
29) Tetrahydrofuran	7.628	42	2379	0.941	ug/l #	76
31) Cyclohexane	8.022	56	7417	1.040	ug/l #	8
36) 1,1-Dichloropropene	8.016	75	28466	4.924	ug/l #	50
37) Ethyl Acetate	7.345	43	69420	9.119	ug/l	98
38) Carbon Tetrachloride	8.016	117	36575	6.230	ug/l #	17
42) 1,2-Dichloroethane	8.486	62	1813	0.287	ug/l #	74
43) Isopropyl Acetate	8.498	43	264650	25.738	ug/l #	92
45) 1,2-Dichloropropane	9.563	63	4146	0.884	ug/l #	44
48) Methyl methacrylate	9.492	41	9572	2.127	ug/l #	39
49) 1,4-Dioxane	9.510	88	244	1.923	ug/l #	25
51) 4-Methyl-2-Pentanone	10.274	43	25651	3.478	ug/l #	78
54) cis-1,3-Dichloropropene	10.186	75	97153	13.963	ug/l #	63
57) 1,3-Dichloropropane	11.033	76	14958	1.844	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.186	63	59	9.958	ug/l #	44
59) 2-Hexanone	11.033	43	198534	35.532	ug/l #	49
74) N-amyl acetate	12.139	43	45912	5.606	ug/l #	51
76) 1,2,3-Trichloropropane	12.674	75	141292	24.398	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	141292	61.840	ug/l #	10
95) Naphthalene	15.433	128	5977	0.355	ug/l #	91

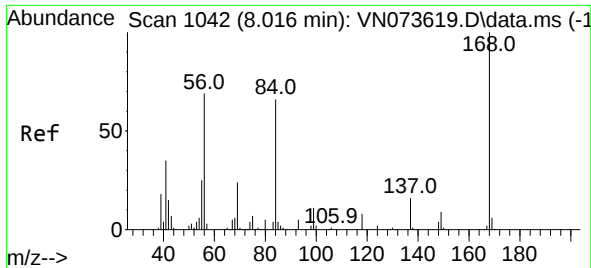
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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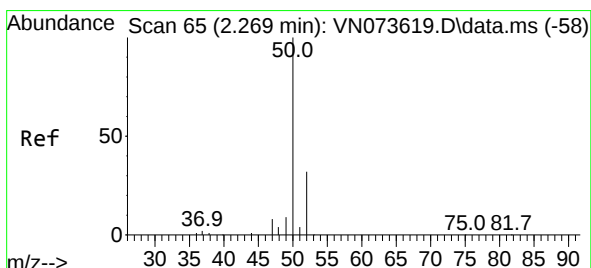
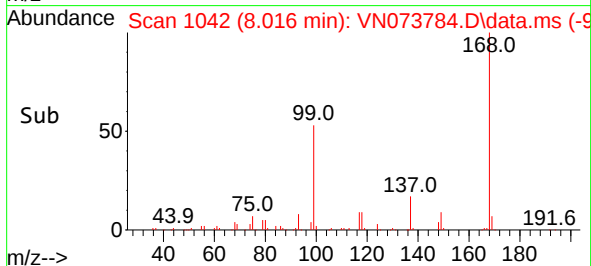
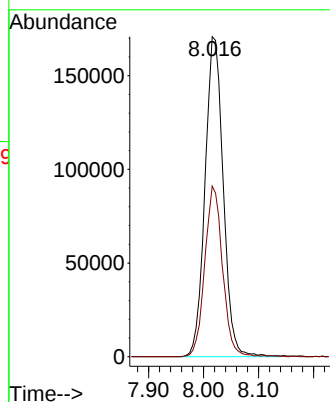
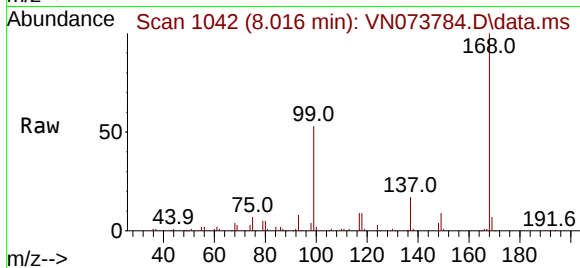




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

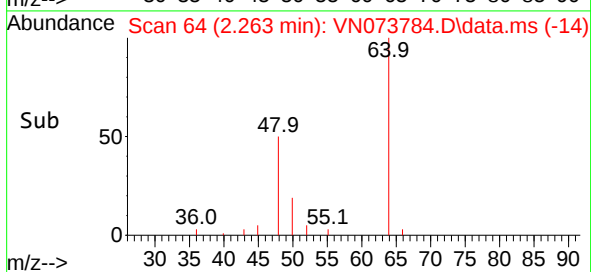
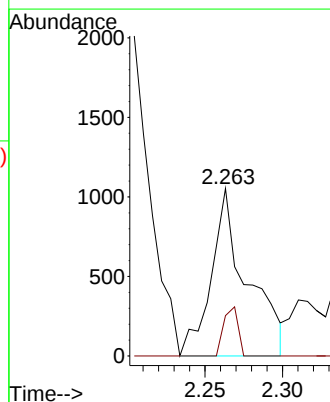
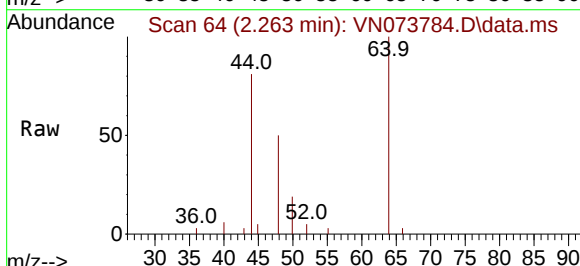
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

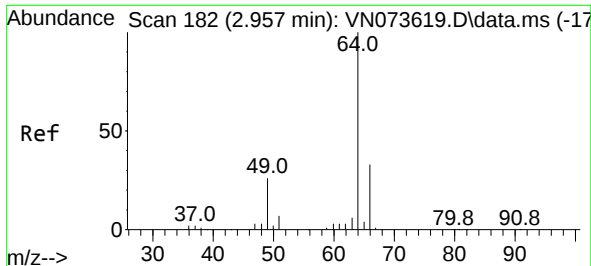
Tgt Ion:168 Resp: 393207
Ion Ratio Lower Upper
168 100
99 53.3 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion: 50 Resp: 1700
Ion Ratio Lower Upper
50 100
52 24.1 25.7 38.5#

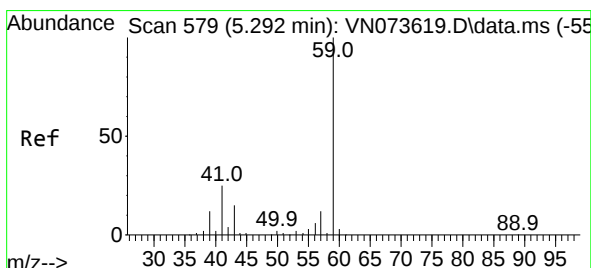
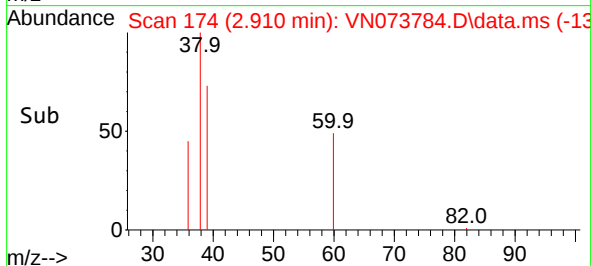
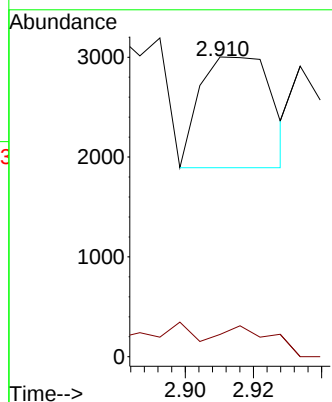
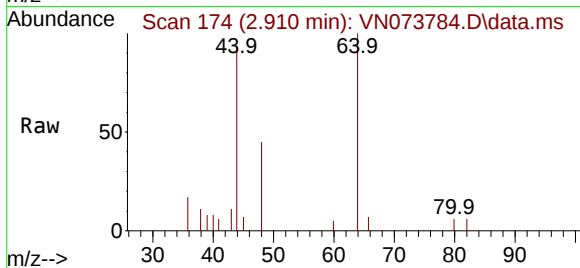




#6
Chloroethane
Concen: Below Cal
RT: 2.910 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

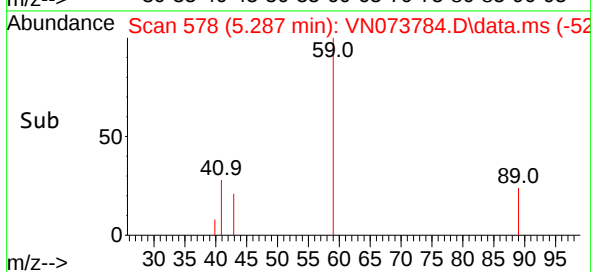
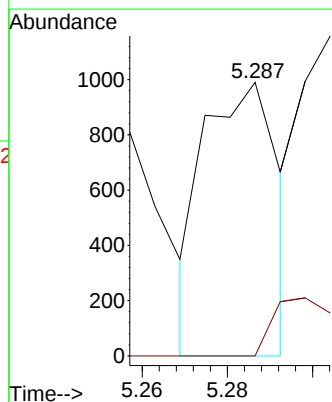
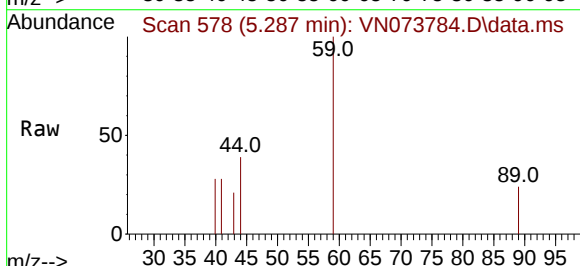
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

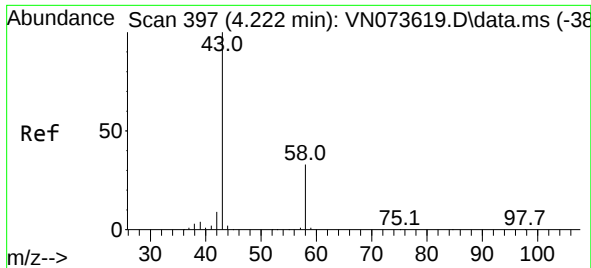
Tgt Ion: 64 Resp: 1620
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 1.158 ug/l
RT: 5.287 min Scan# 578
Delta R.T. -0.005 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion: 59 Resp: 1197
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

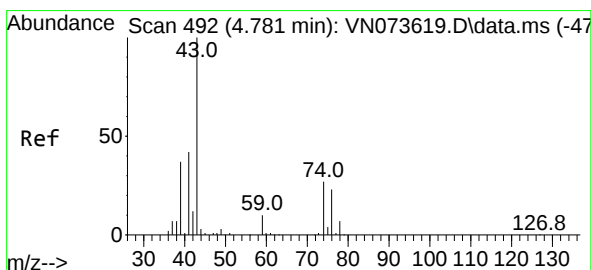
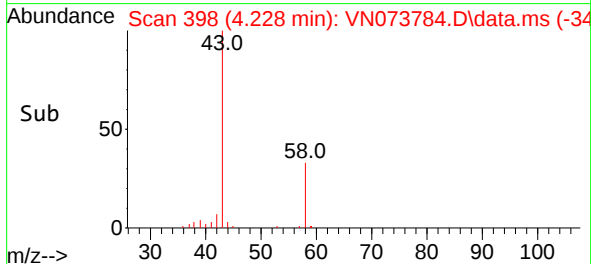
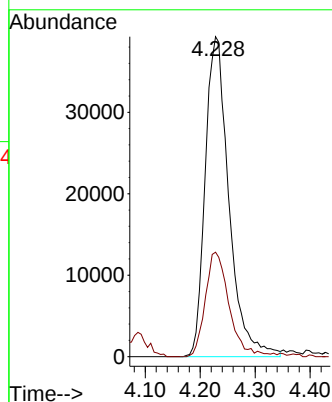
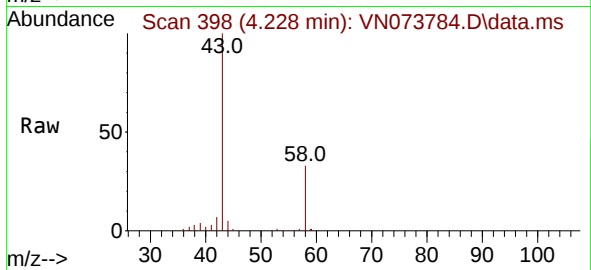




#16
Acetone
Concen: 45.713 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

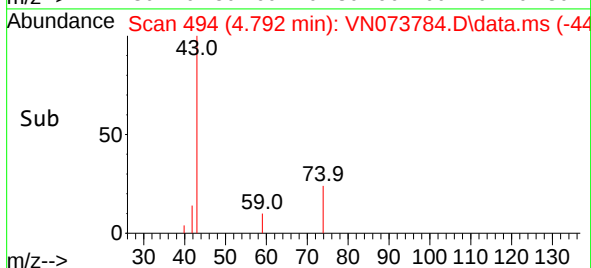
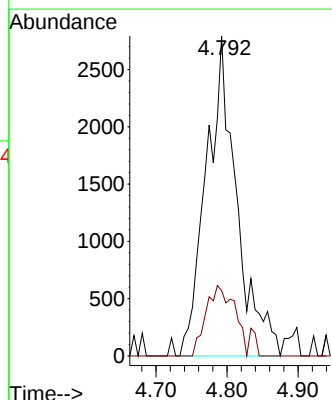
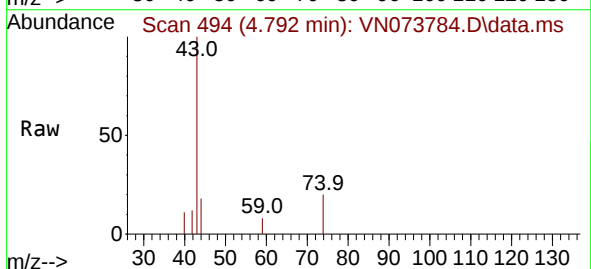
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

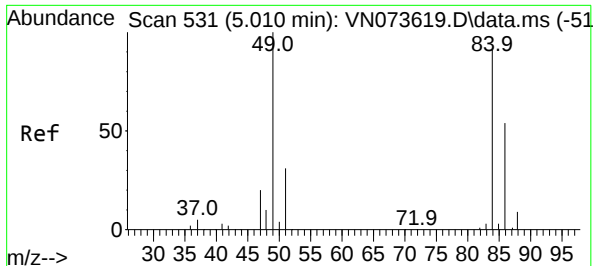
Tgt Ion: 43 Resp: 117653
Ion Ratio Lower Upper
43 100
58 32.7 26.0 39.0



#18
Methyl Acetate
Concen: 1.298 ug/l
RT: 4.792 min Scan# 494
Delta R.T. 0.012 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion: 43 Resp: 8314
Ion Ratio Lower Upper
43 100
74 20.6 21.6 32.4#

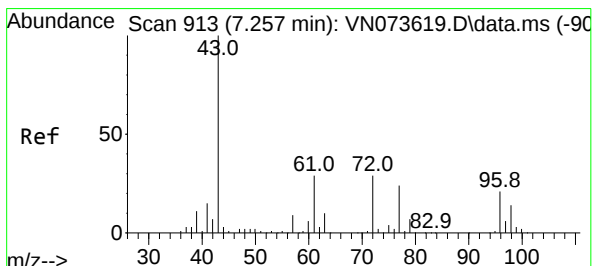
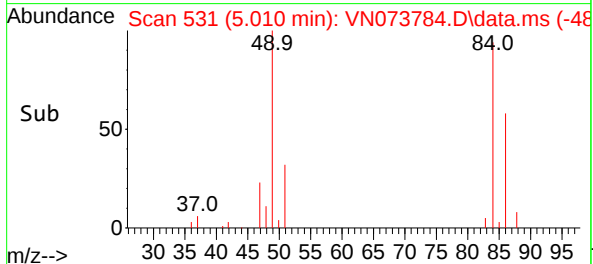
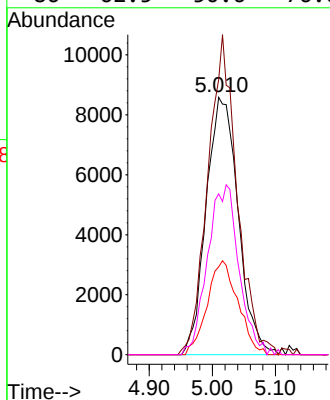
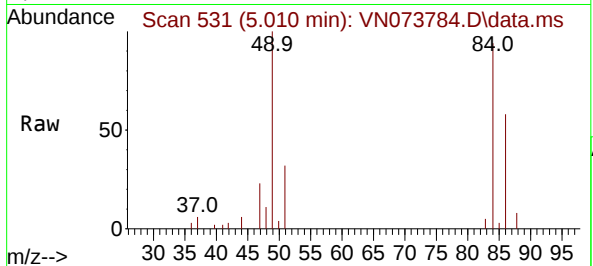




#20
Methylene Chloride
Concen: 5.292 ug/l
RT: 5.010 min Scan# 511
Delta R.T. 0.000 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

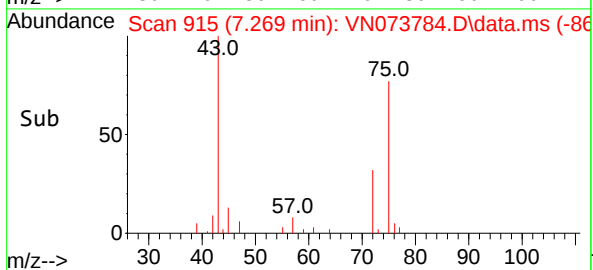
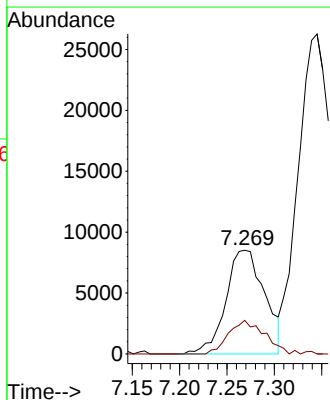
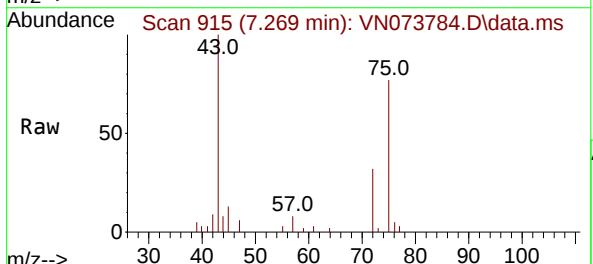
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

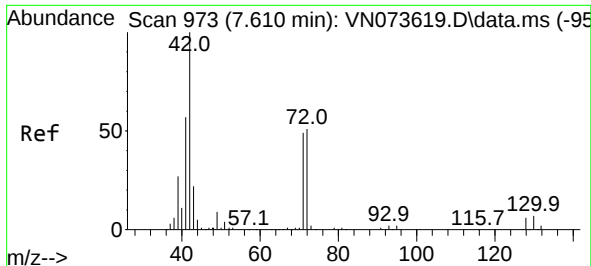
Tgt Ion: 84	Resp: 30238
Ion Ratio	Lower Upper
84 100	
49 106.9	88.3 132.5
51 34.1	28.2 42.2
86 62.5	50.6 76.0



#25
2-Butanone
Concen: 6.077 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion: 43	Resp: 24288
Ion Ratio	Lower Upper
43 100	
72 32.5	23.7 35.5





#29

Tetrahydrofuran

Concen: 0.941 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB146833ZHE#01

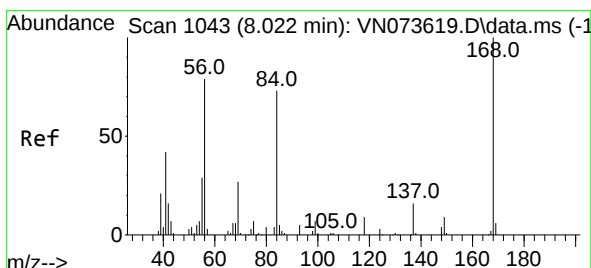
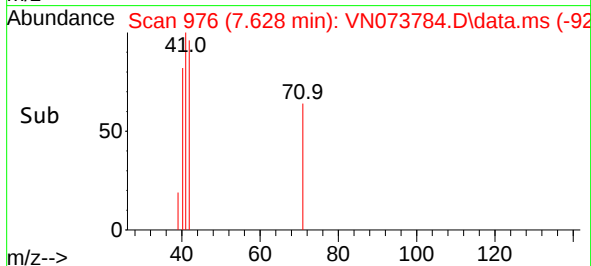
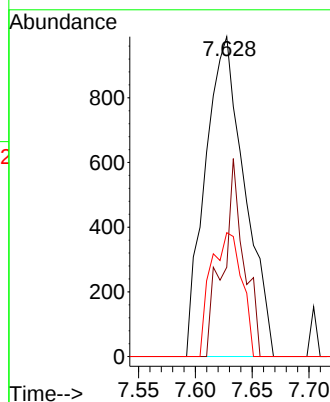
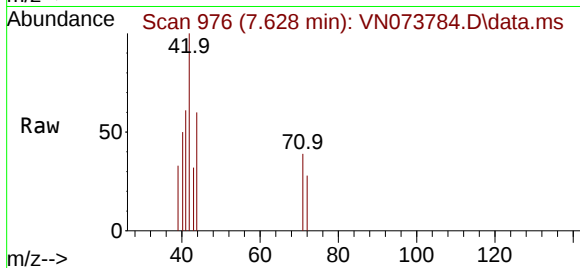
Tgt Ion: 42 Resp: 2379

Ion Ratio Lower Upper

42 100

72 33.0 39.7 59.5#

71 30.4 36.6 55.0#



#31

Cyclohexane

Concen: 1.040 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.000 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

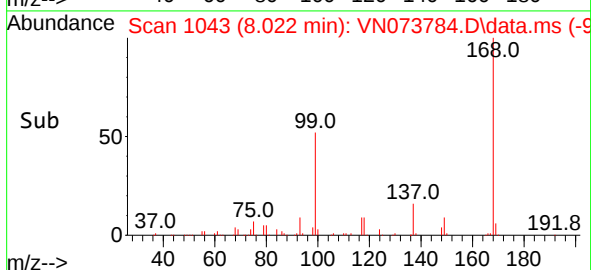
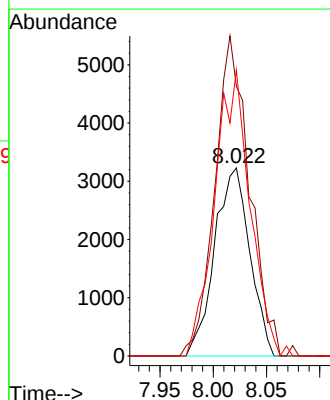
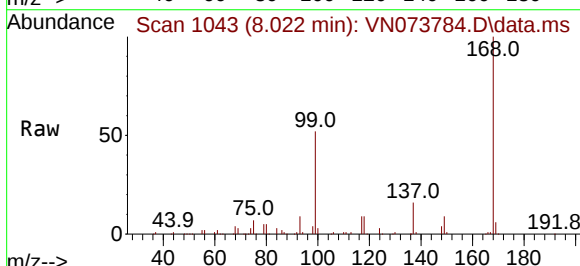
Tgt Ion: 56 Resp: 7417

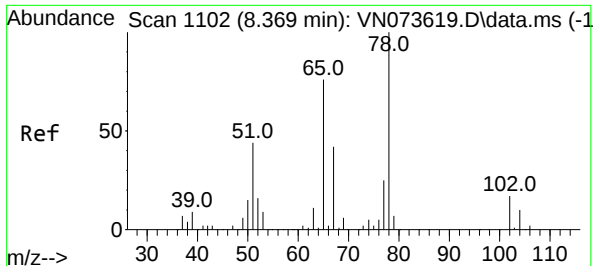
Ion Ratio Lower Upper

56 100

69 143.6 27.8 41.8#

84 152.1 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 47.368 ug/l

RT: 8.375 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

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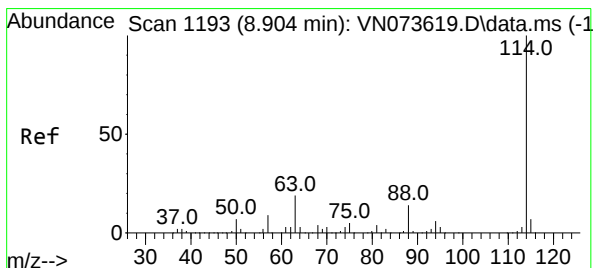
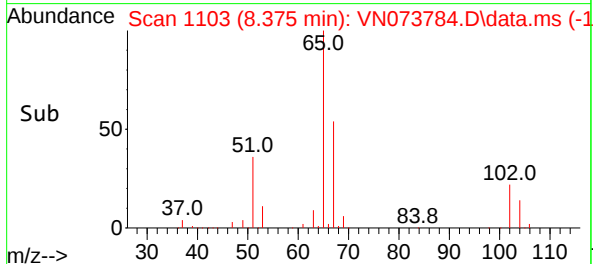
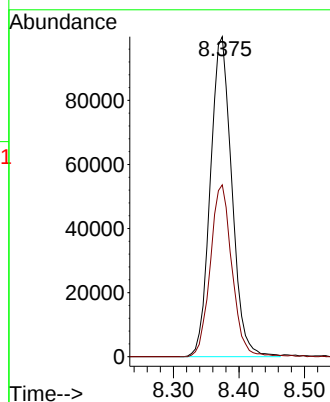
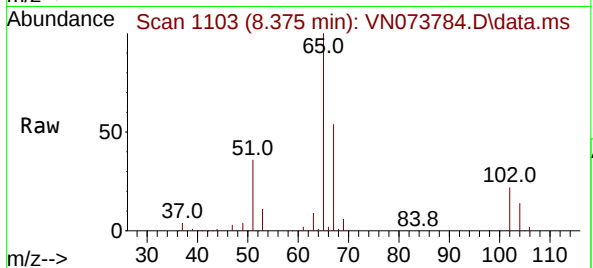
PB146833ZHE#01

Tgt Ion: 65 Resp: 226981

Ion Ratio Lower Upper

65 100

67 54.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

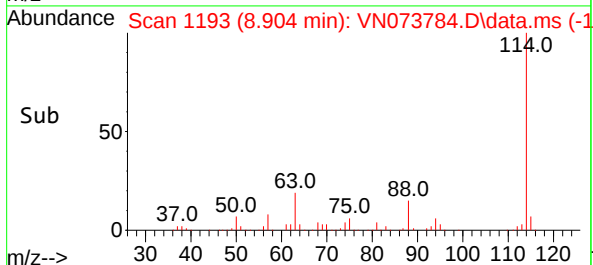
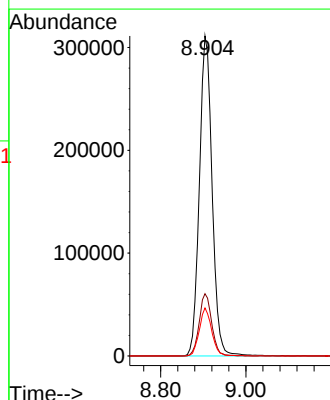
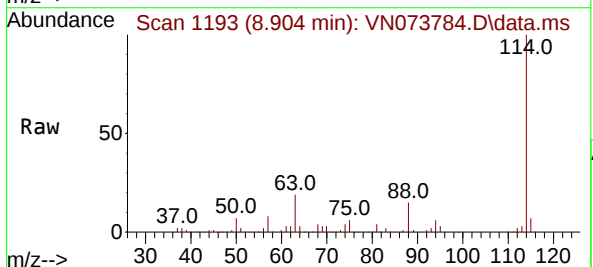
Tgt Ion: 114 Resp: 645893

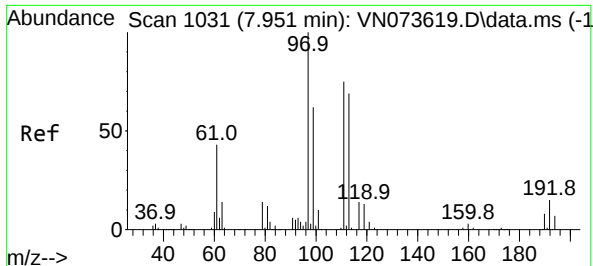
Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.0

88 15.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 53.534 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB146833ZHE#01

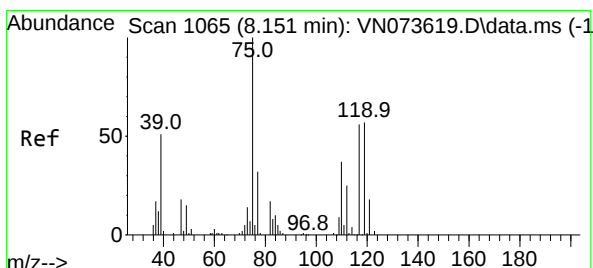
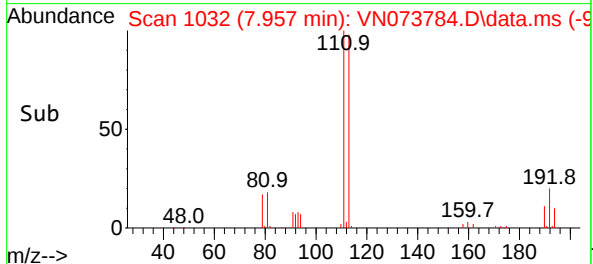
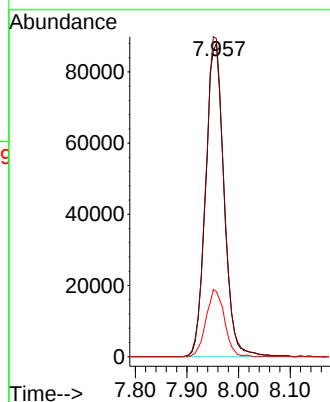
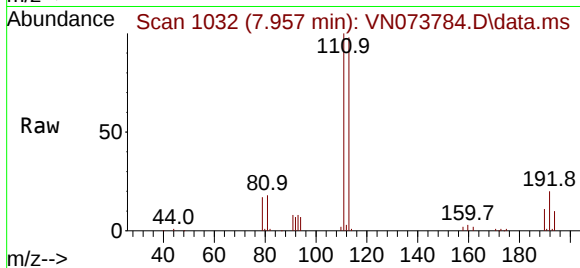
Tgt Ion:113 Resp: 217123

Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.0

192 21.4 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.924 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

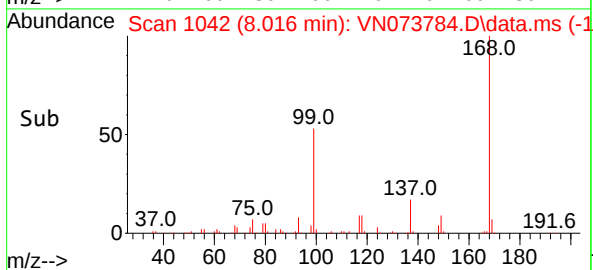
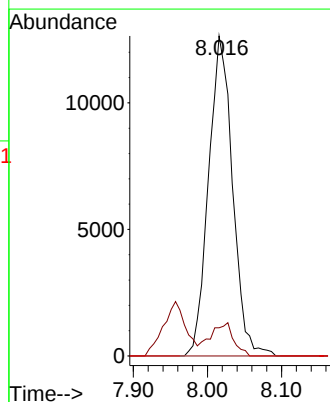
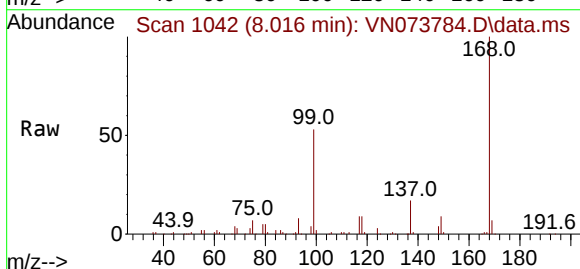
Tgt Ion: 75 Resp: 28466

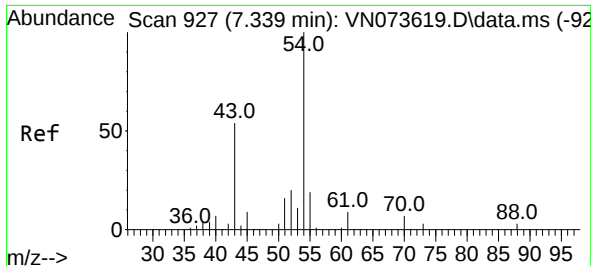
Ion Ratio Lower Upper

75 100

110 10.2 18.3 54.8#

77 0.0 25.1 37.7#

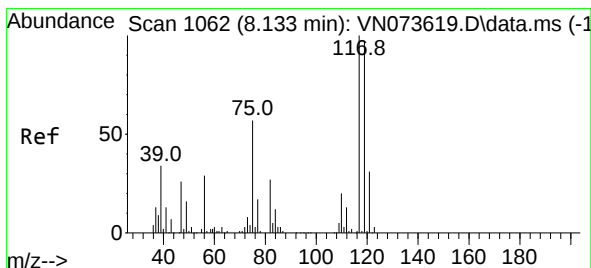
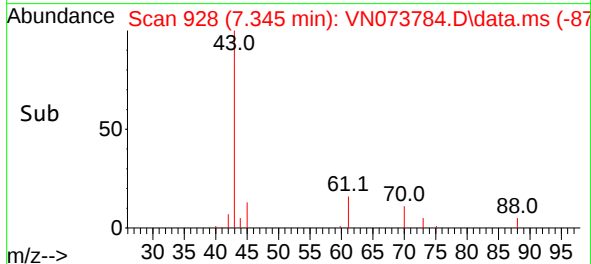
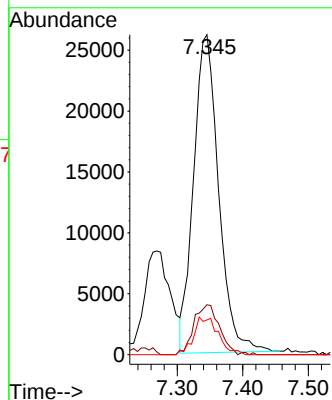
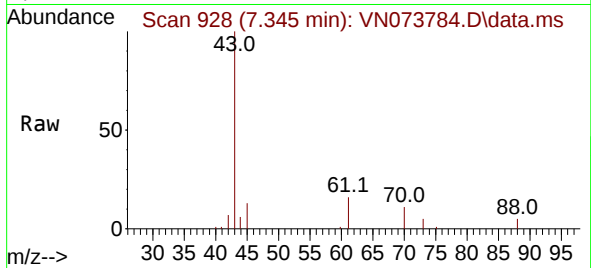




#37
Ethyl Acetate
Concen: 9.119 ug/l
RT: 7.345 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

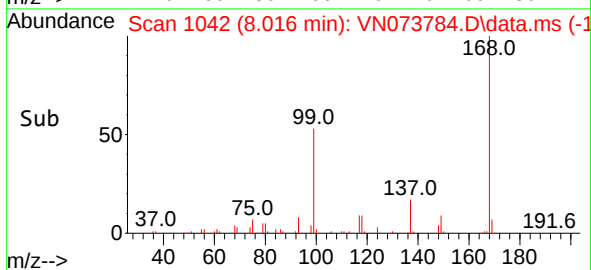
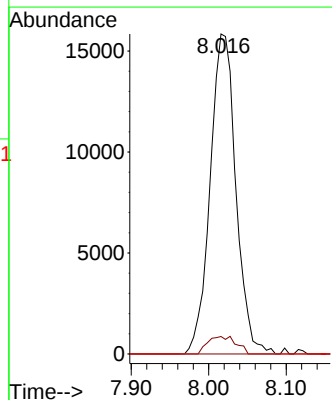
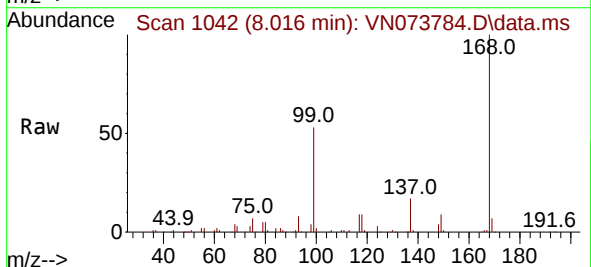
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

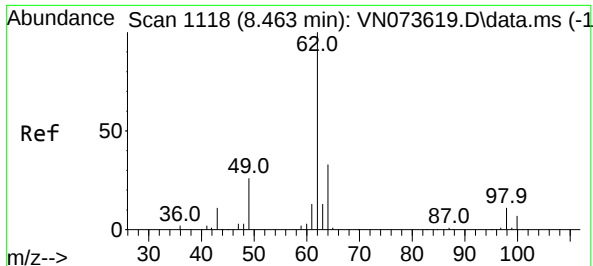
Tgt Ion: 43 Resp: 69420
Ion Ratio Lower Upper
43 100
61 16.0 11.8 17.6
70 11.5 9.3 13.9



#38
Carbon Tetrachloride
Concen: 6.230 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion: 117 Resp: 36575
Ion Ratio Lower Upper
117 100
119 5.5 75.8 113.8#
121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.287 ug/l

RT: 8.486 min Scan# 1118

Delta R.T. 0.023 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

Instrument :

MSVOA_N

ClientSampleId :

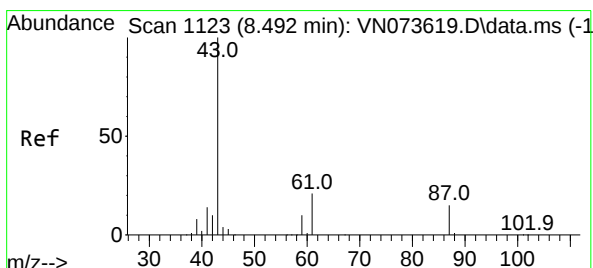
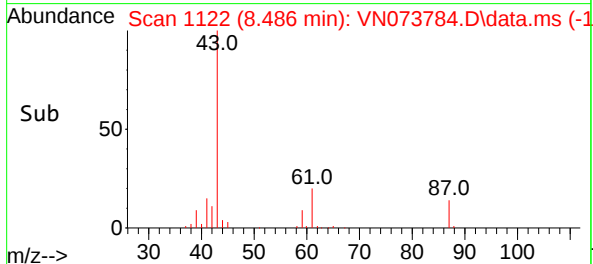
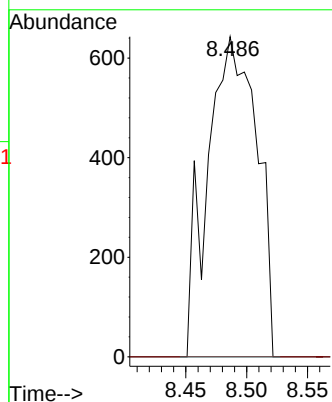
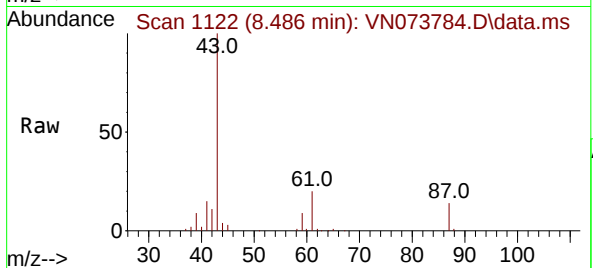
PB146833ZHE#01

Tgt Ion: 62 Resp: 1813

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 25.738 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

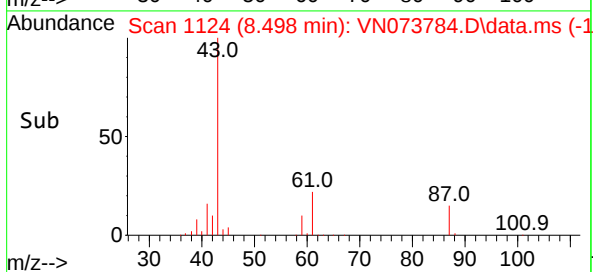
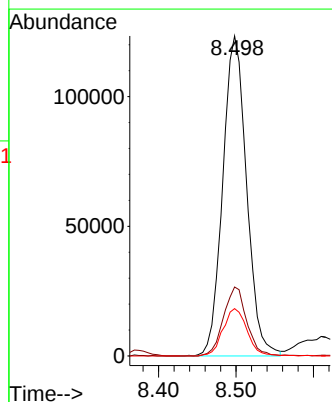
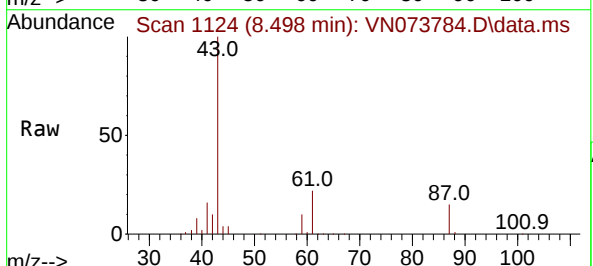
Tgt Ion: 43 Resp: 264650

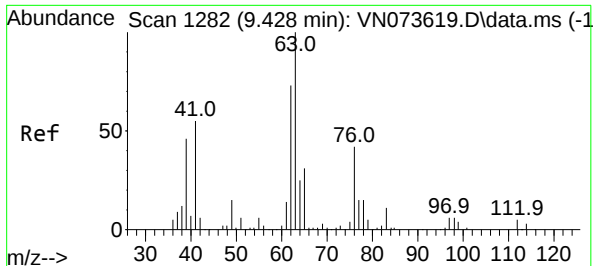
Ion Ratio Lower Upper

43 100

61 21.1 21.9 32.9#

87 14.9 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.884 ug/l

RT: 9.563 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

Instrument :

MSVOA_N

ClientSampleId :

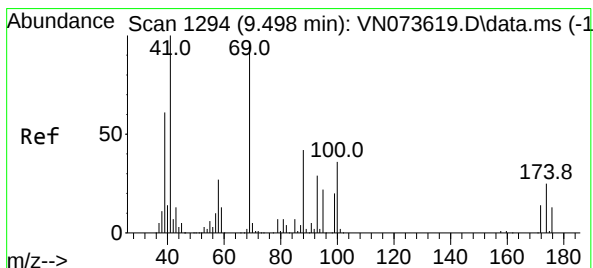
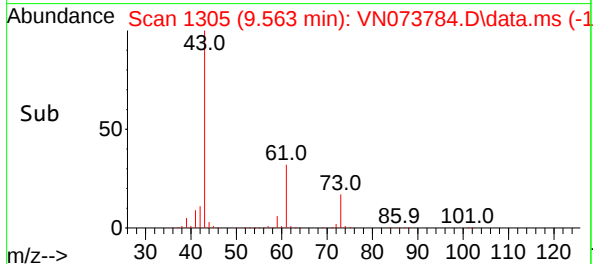
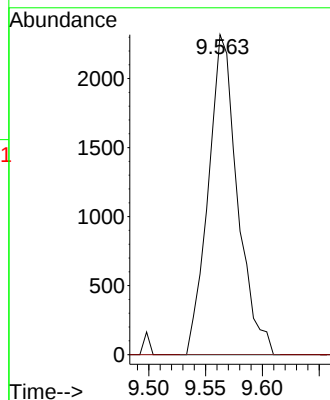
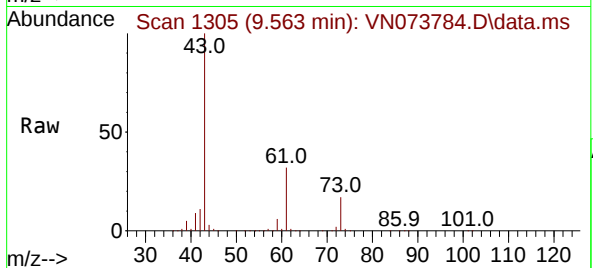
PB146833ZHE#01

Tgt Ion: 63 Resp: 4146

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.127 ug/l

RT: 9.492 min Scan# 1293

Delta R.T. -0.006 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

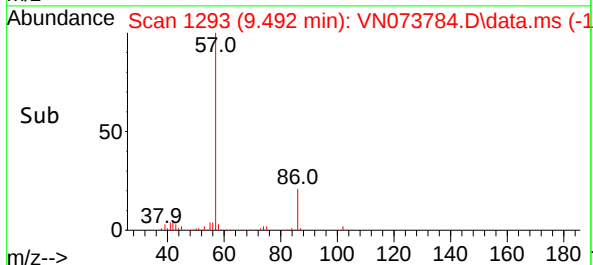
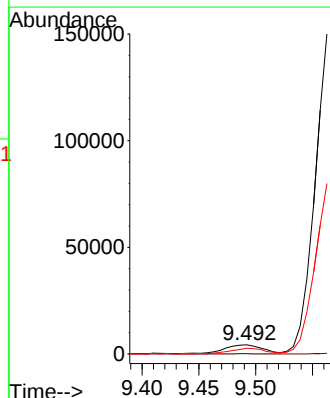
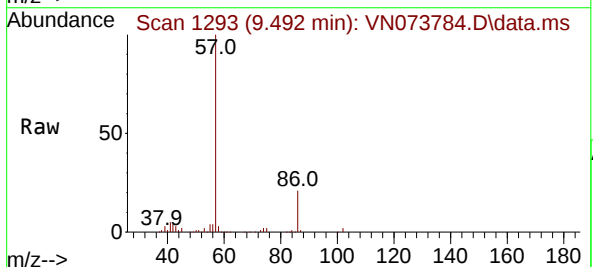
Tgt Ion: 41 Resp: 9572

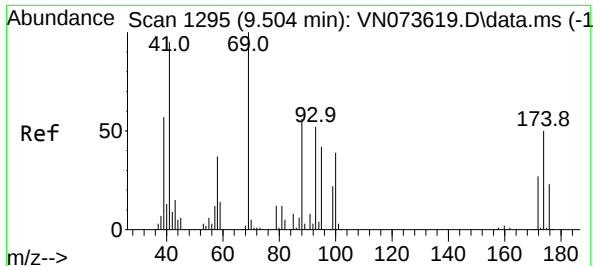
Ion Ratio Lower Upper

41 100

69 1.1 74.7 112.1#

39 59.0 45.6 68.4





#49

1,4-Dioxane

Concen: 1.923 ug/l

RT: 9.510 min Scan# 1295

Delta R.T. 0.006 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB146833ZHE#01

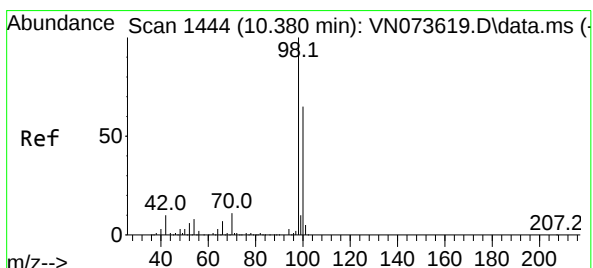
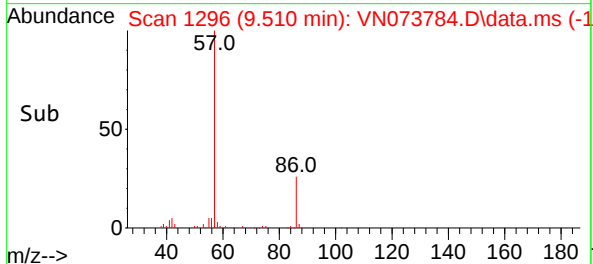
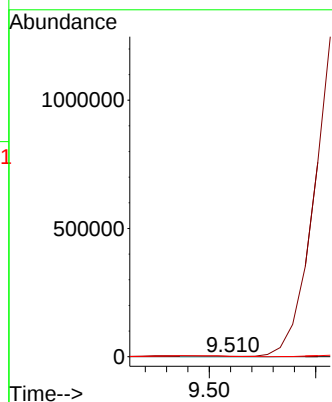
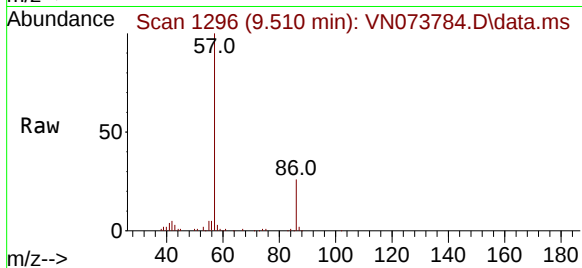
Tgt Ion: 88 Resp: 244

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.4#

58 0.0 54.2 81.4#



#50

Toluene-d8

Concen: 46.331 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN073784.D

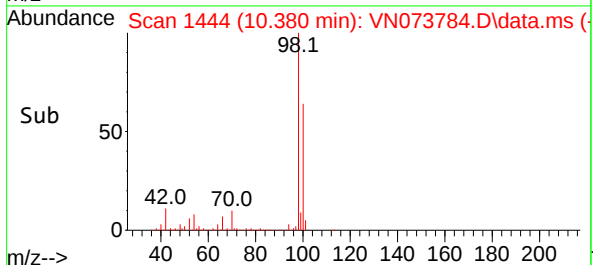
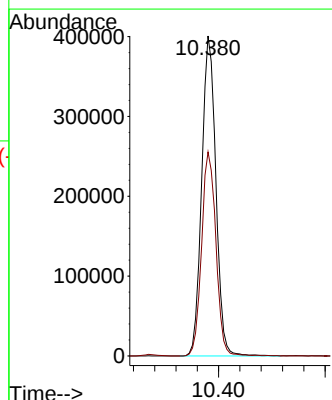
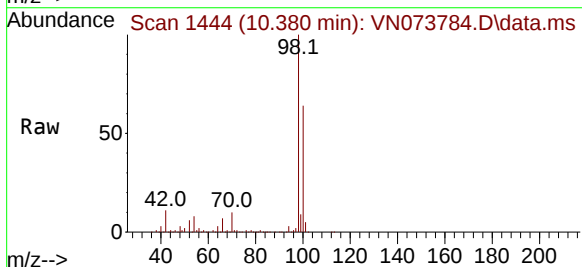
Acq: 09 Aug 2022 12:58

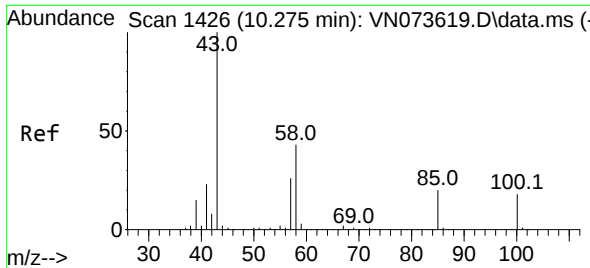
Tgt Ion: 98 Resp: 739452

Ion Ratio Lower Upper

98 100

100 64.5 52.6 78.8

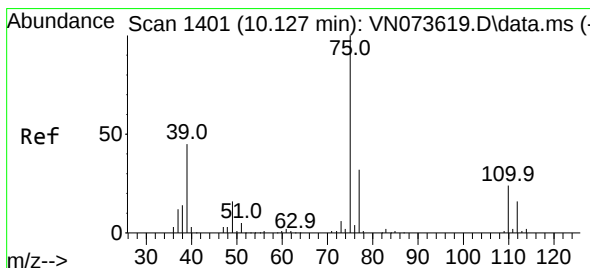
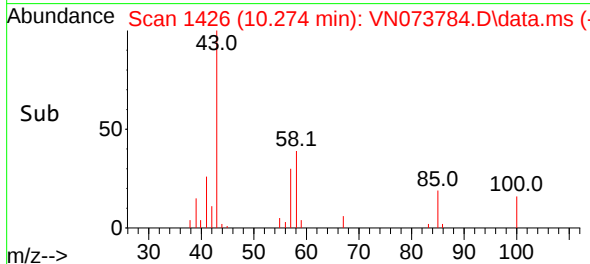
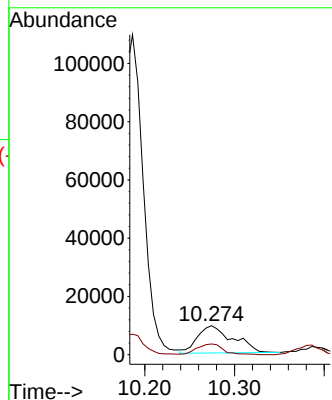
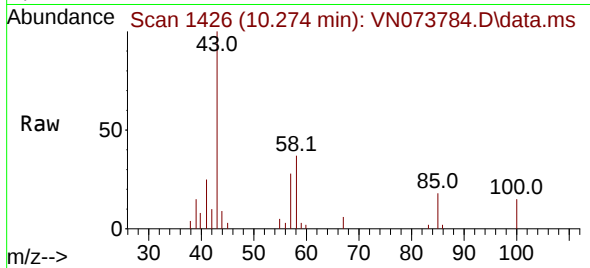




#51
4-Methyl-2-Pentanone
Concen: 3.478 ug/l
RT: 10.274 min Scan# 1426
Delta R.T. -0.001 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

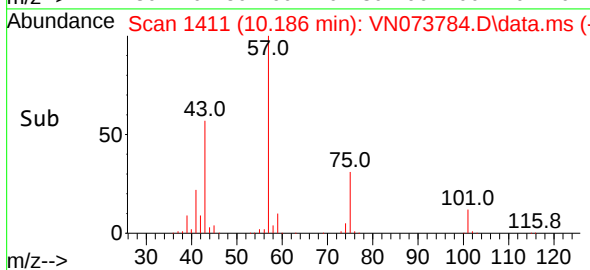
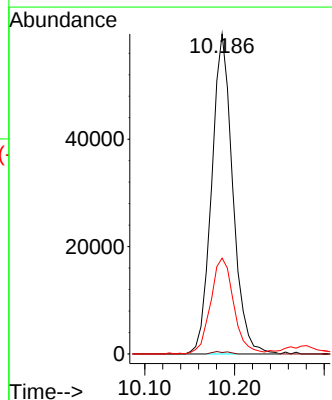
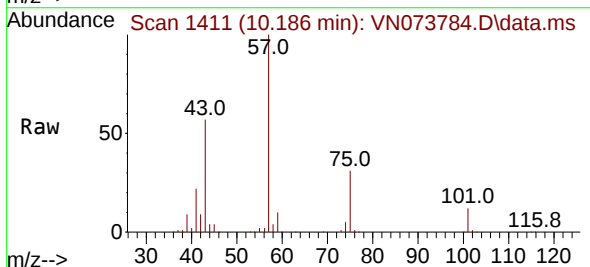
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

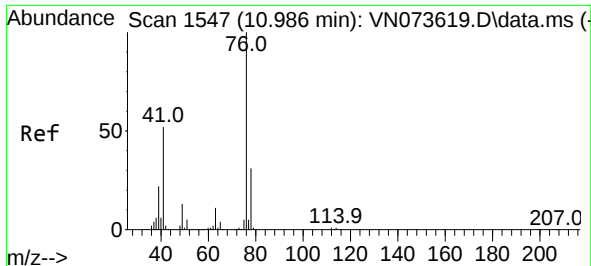
Tgt Ion: 43 Resp: 25651
Ion Ratio Lower Upper
43 100
58 28.9 34.1 51.1#



#54
cis-1,3-Dichloropropene
Concen: 13.963 ug/l
RT: 10.186 min Scan# 1411
Delta R.T. 0.059 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion: 75 Resp: 97153
Ion Ratio Lower Upper
75 100
77 0.4 25.2 37.8#
39 29.7 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 1.844 ug/l

RT: 11.033 min Scan# 1411

Delta R.T. 0.047 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

Instrument :

MSVOA_N

ClientSampleId :

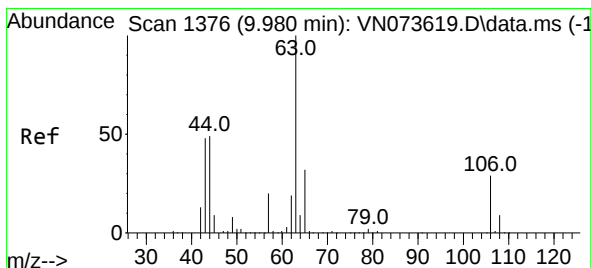
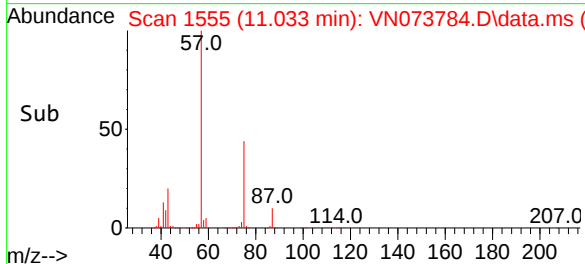
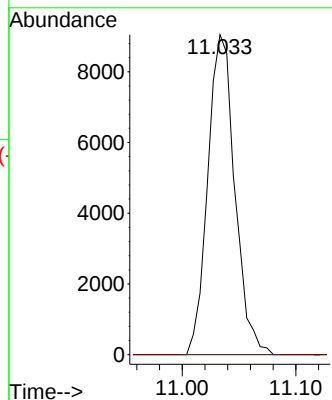
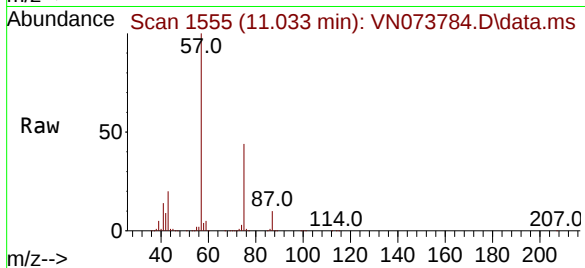
PB146833ZHE#01

Tgt Ion: 76 Resp: 14958

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#58

2-Chloroethyl Vinyl ether

Concen: 9.958 ug/l

RT: 10.186 min Scan# 1411

Delta R.T. 0.206 min

Lab File: VN073784.D

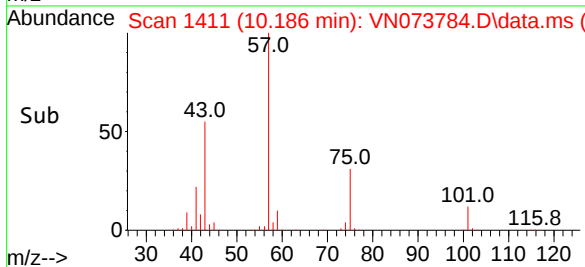
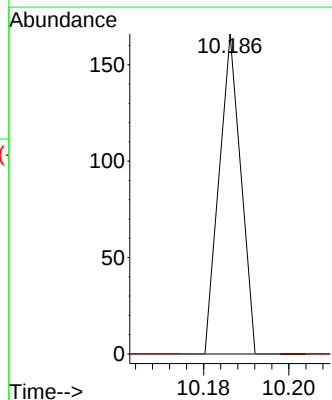
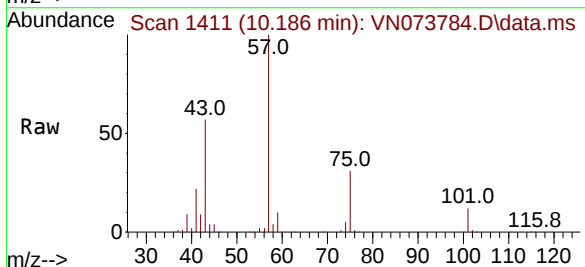
Acq: 09 Aug 2022 12:58

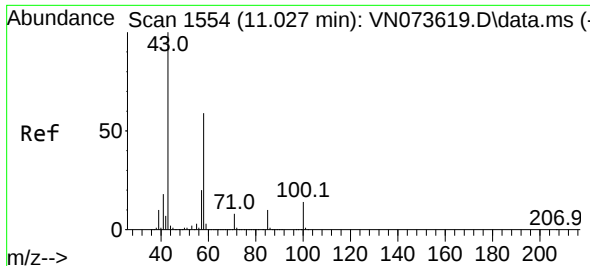
Tgt Ion: 63 Resp: 59

Ion Ratio Lower Upper

63 100

106 0.0 24.6 36.8#

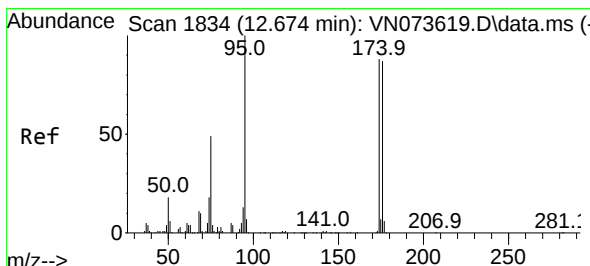
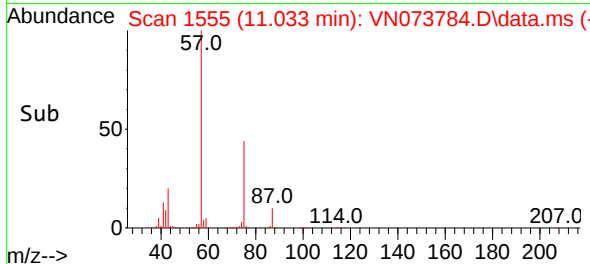
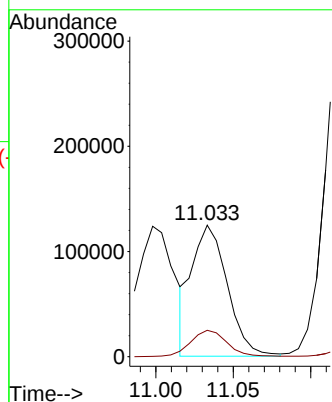
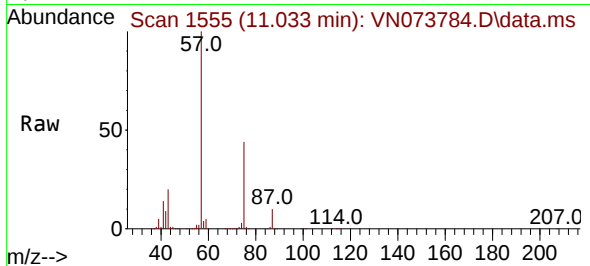




#59
2-Hexanone
Concen: 35.532 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

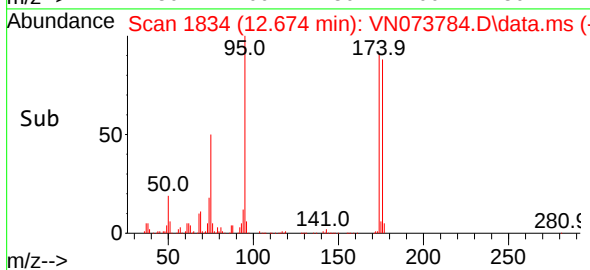
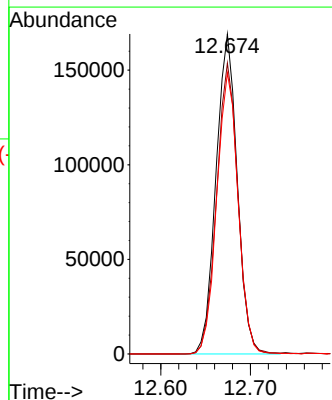
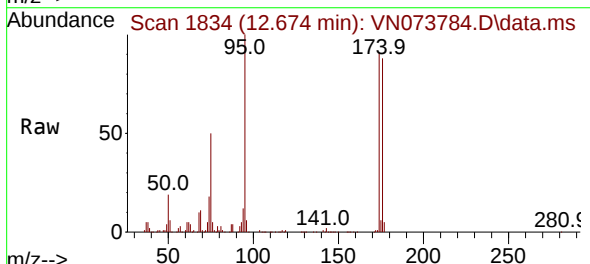
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

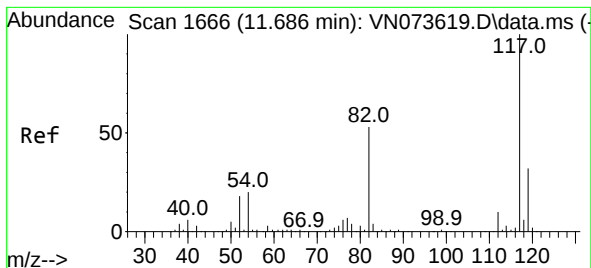
Tgt Ion: 43 Resp: 198534
Ion Ratio Lower Upper
43 100
58 21.1 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 51.761 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion: 95 Resp: 277883
Ion Ratio Lower Upper
95 100
174 91.3 0.0 167.6
176 88.2 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB146833ZHE#01

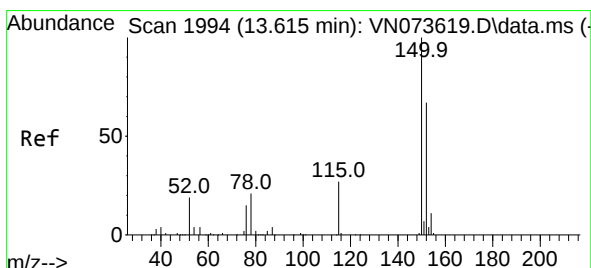
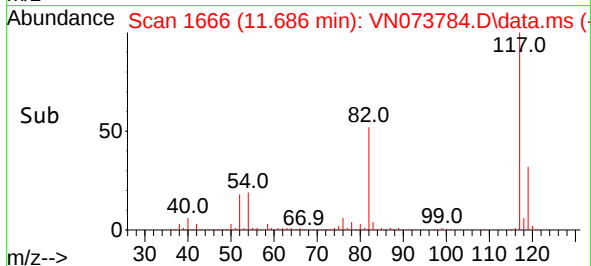
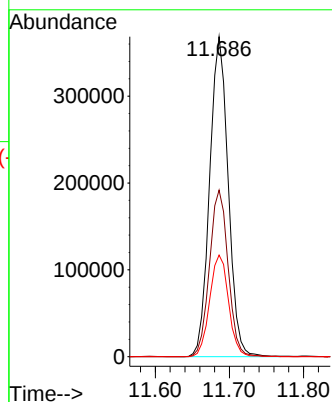
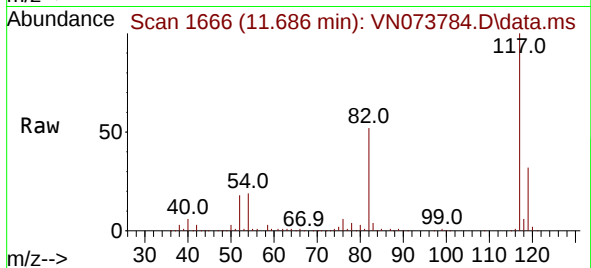
Tgt Ion:117 Resp: 640696

Ion Ratio Lower Upper

117 100

82 52.1 44.2 66.2

119 31.8 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.615 min Scan# 1994

Delta R.T. -0.000 min

Lab File: VN073784.D

Acq: 09 Aug 2022 12:58

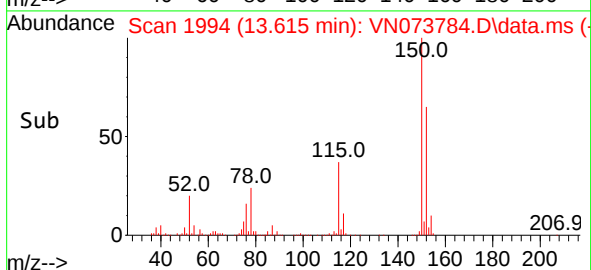
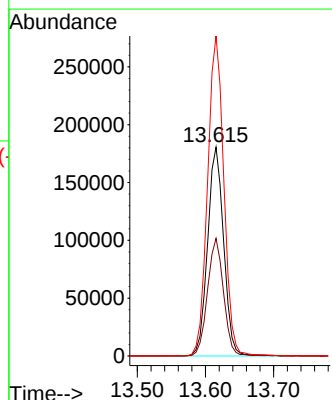
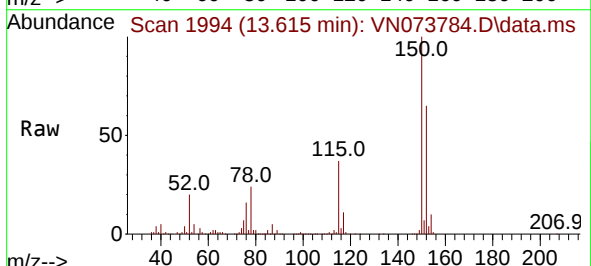
Tgt Ion:152 Resp: 296092

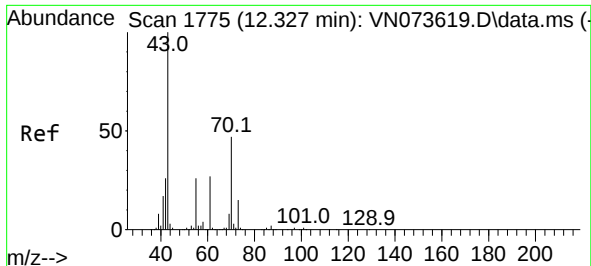
Ion Ratio Lower Upper

152 100

115 56.1 28.9 86.7

150 155.1 0.0 356.2

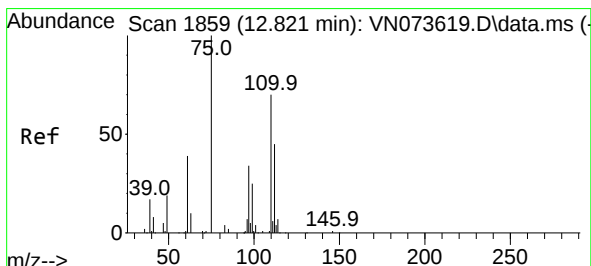
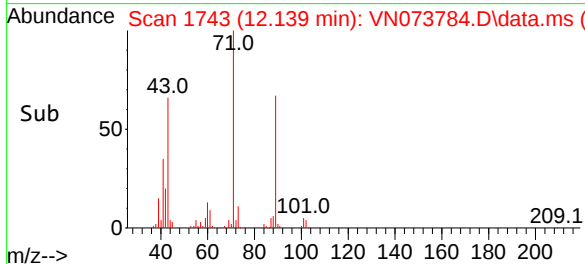
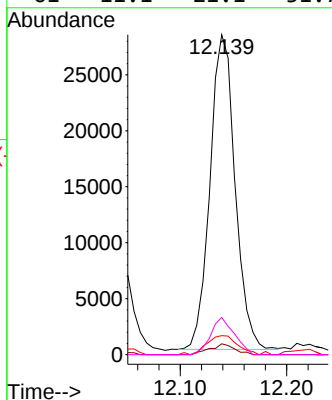
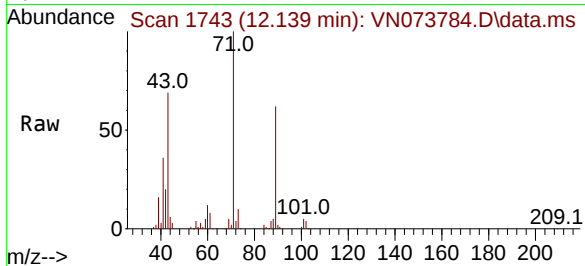




#74
N-amy1 acetate
Concen: 5.606 ug/l
RT: 12.139 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

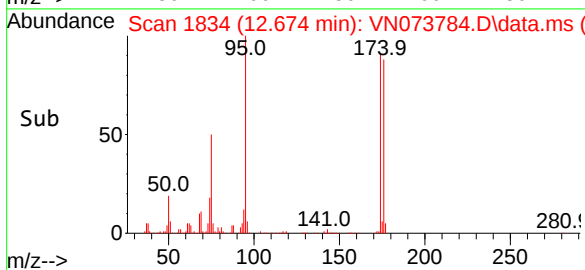
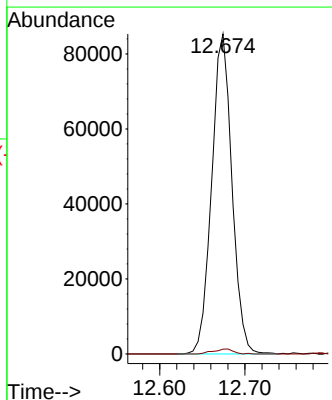
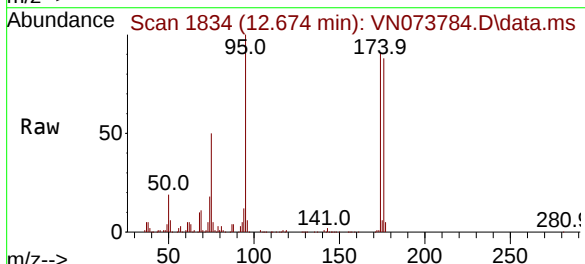
Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

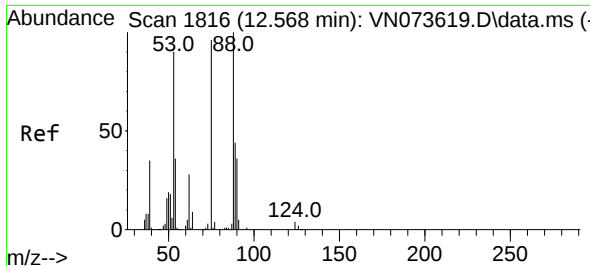
Tgt Ion:	43	Resp:	45912
Ion	Ratio	Lower	Upper
43	100		
70	3.4	39.0	58.4#
55	7.6	21.1	31.7#
61	11.1	21.1	31.7#



#76
1,2,3-Trichloropropane
Concen: 24.398 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion:	75	Resp:	141292
Ion	Ratio	Lower	Upper
75	100		
77	1.5	98.5	295.5#

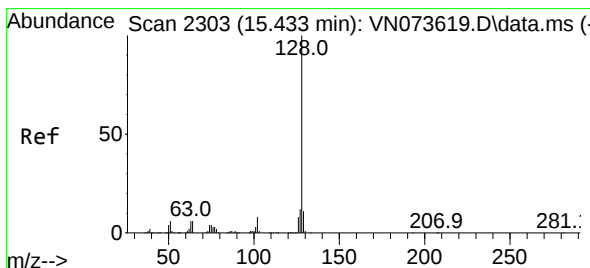
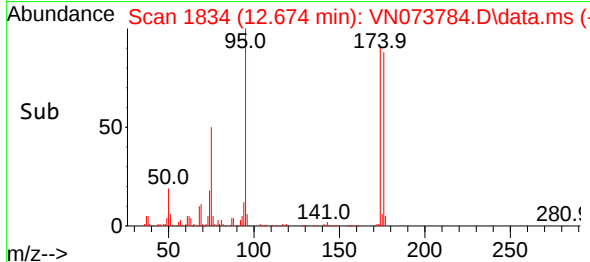
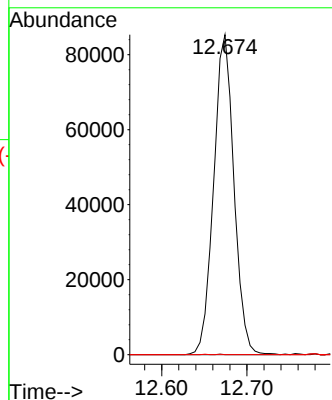
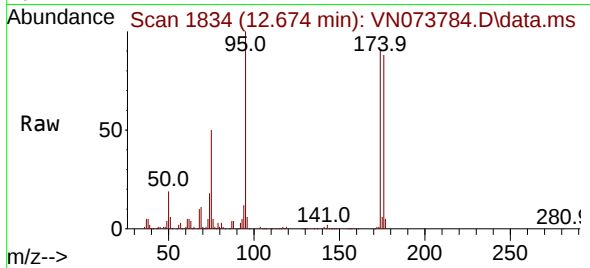




#81
trans-1,4-Dichloro-2-butene
Concen: 61.840 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Instrument :
MSVOA_N
ClientSampleId :
PB146833ZHE#01

Tgt Ion: 75 Resp: 141292
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#95
Naphthalene
Concen: 0.355 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN073784.D
Acq: 09 Aug 2022 12:58

Tgt Ion:128 Resp: 5977
Ion Ratio Lower Upper
128 100
127 10.2 10.3 15.5#
129 6.5 8.6 13.0#

