

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072922\
 Data File : VN073643.D
 Acq On : 29 Jul 2022 18:37
 Operator : JC\MD
 Sample : PB146545ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#04

Quant Time: Aug 01 04:08:09 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

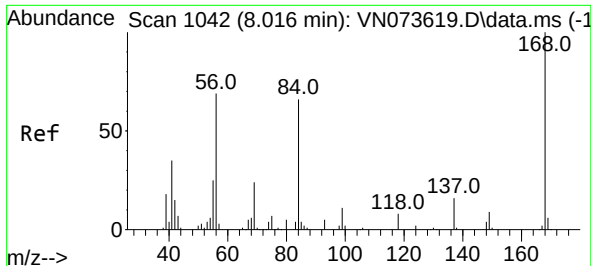
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.016	168	340497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	563391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	553623	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	237887	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	191763	46.213	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.420%		
35) Dibromofluoromethane	7.951	113	179578	50.761	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.520%		
50) Toluene-d8	10.380	98	629762	45.237	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.480%		
62) 4-Bromofluorobenzene	12.674	95	225858	48.789	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.580%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	674	Below Cal	#	87
6) Chloroethane	2.969	64	754	Below Cal	#	42
11) Tert butyl alcohol	5.292	59	2088	2.333	ug/l #	72
16) Acetone	4.222	43	104540	46.905	ug/l	98
18) Methyl Acetate	4.787	43	6921	1.248	ug/l #	88
20) Methylene Chloride	5.016	84	23781	4.594	ug/l	95
25) 2-Butanone	7.269	43	31377	9.065	ug/l	96
26) 2,2-Dichloropropane	7.233	77	1107	0.210	ug/l #	53
29) Tetrahydrofuran	7.622	42	9776	4.467	ug/l	96
31) Cyclohexane	8.016	56	6771	1.096	ug/l #	4
36) 1,1-Dichloropropene	8.016	75	24877	4.934	ug/l #	49
37) Ethyl Acetate	7.345	43	58968	8.880	ug/l	99
38) Carbon Tetrachloride	8.016	117	31162	6.085	ug/l #	17
41) Methacrylonitrile	7.628	41	5795	1.929	ug/l #	38
42) 1,2-Dichloroethane	8.498	62	1688	0.306	ug/l #	74
43) Isopropyl Acetate	8.498	43	238645	26.608	ug/l #	92
48) Methyl methacrylate	9.492	41	8401	2.140	ug/l #	37
49) 1,4-Dioxane	9.504	88	239	2.160	ug/l #	1
51) 4-Methyl-2-Pentanone	10.274	43	26180	4.070	ug/l #	82
54) cis-1,3-Dichloropropene	10.186	75	90490	14.910	ug/l #	65
57) 1,3-Dichloropropane	11.033	76	12332	1.743	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.192	63	54	9.959	ug/l #	44
59) 2-Hexanone	11.033	43	163221	33.489	ug/l #	49
71) Bromoform	12.668	173	1383	0.397	ug/l #	28
74) N-amyl acetate	12.316	43	3271	0.497	ug/l #	39
76) 1,2,3-Trichloropropane	12.668	75	118131	25.530	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.668	75	118131	64.354	ug/l #	11

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

Quant Time: Aug 01 04:08:09 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

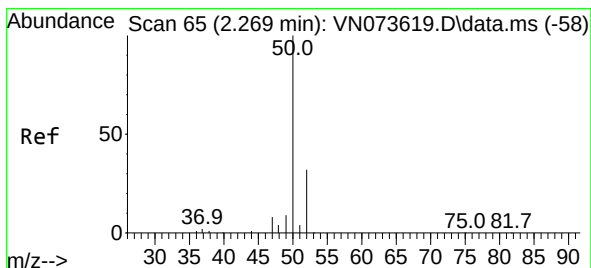
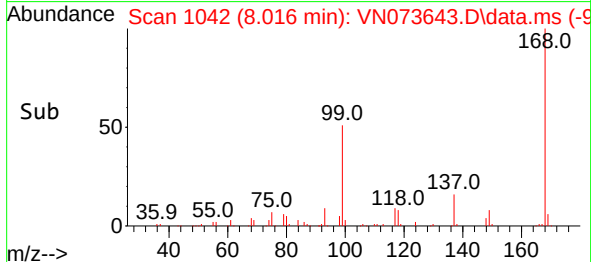
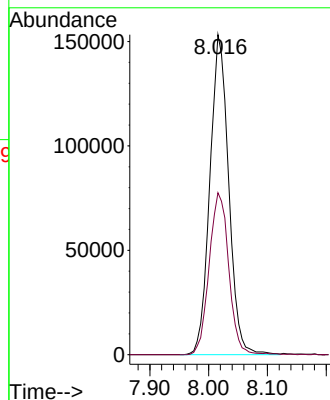
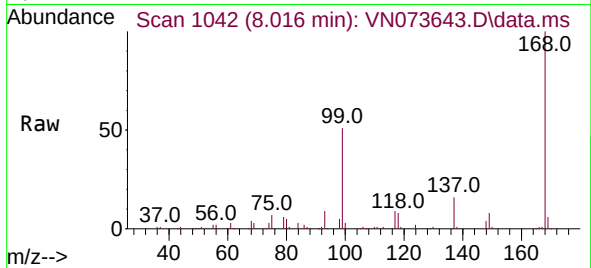




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

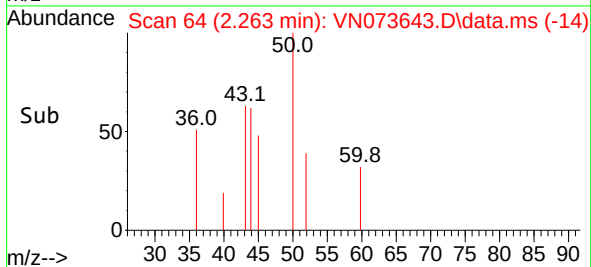
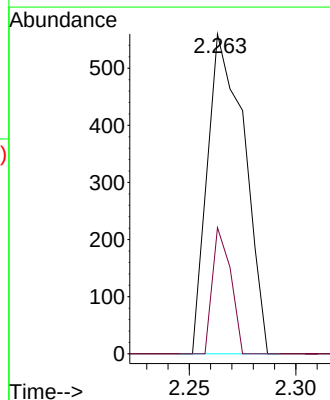
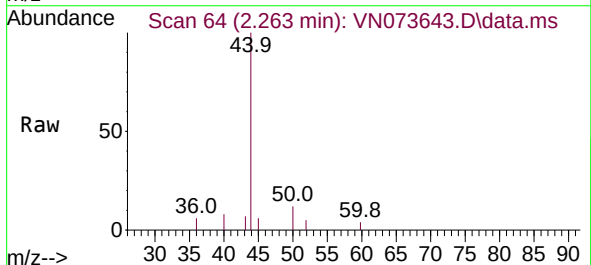
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

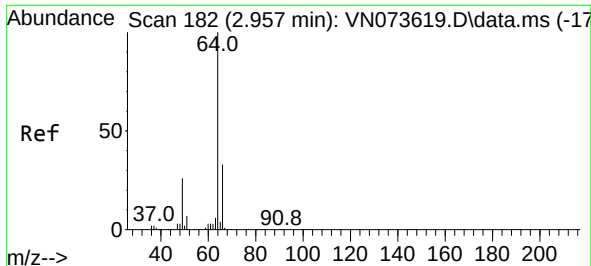
Tgt Ion:168 Resp: 340497
Ion Ratio Lower Upper
168 100
99 50.6 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 50 Resp: 674
Ion Ratio Lower Upper
50 100
52 39.5 25.7 38.5#

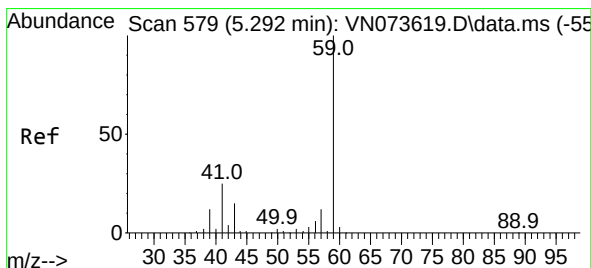
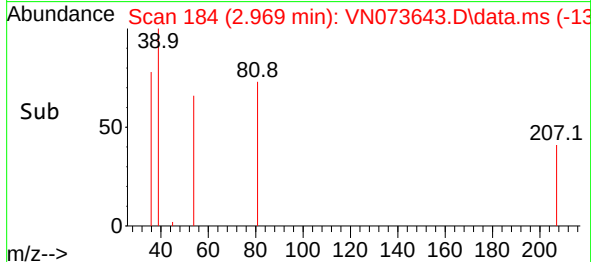
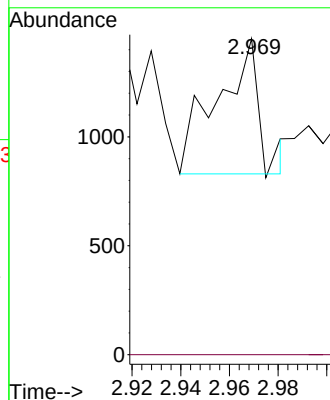
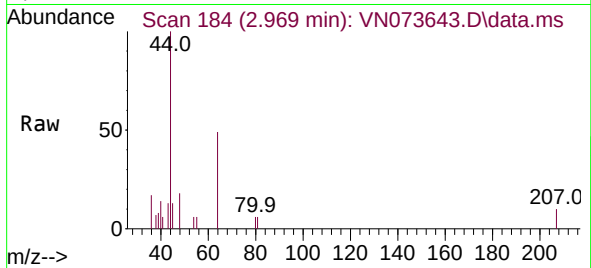




#6
Chloroethane
Concen: Below Cal
RT: 2.969 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

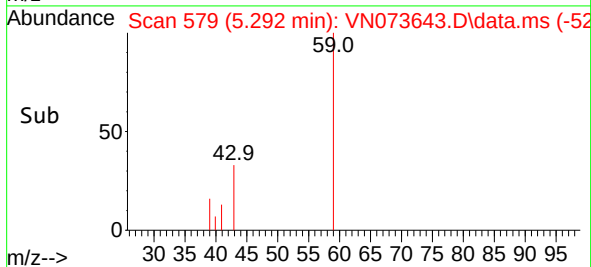
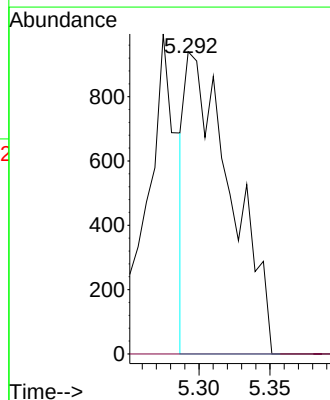
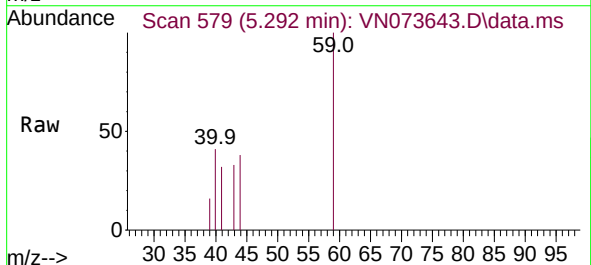
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

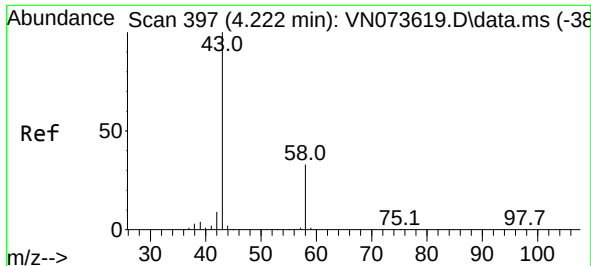
Tgt Ion: 64 Resp: 754
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 2.333 ug/l
RT: 5.292 min Scan# 579
Delta R.T. 0.000 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 59 Resp: 2088
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 46.905 ug/l

RT: 4.222 min Scan# 397

Delta R.T. -0.000 min

Lab File: VN073643.D

Acq: 29 Jul 2022 18:37

Instrument :

MSVOA_N

ClientSampleId :

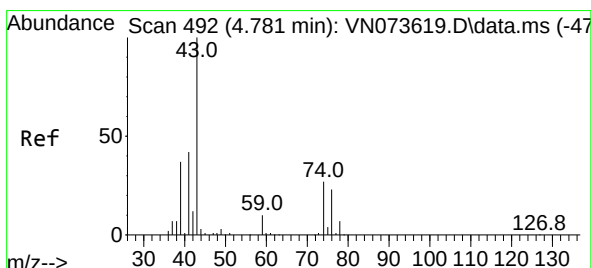
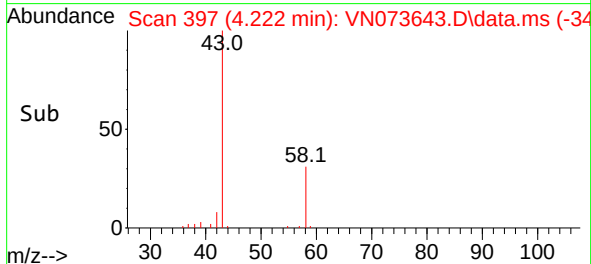
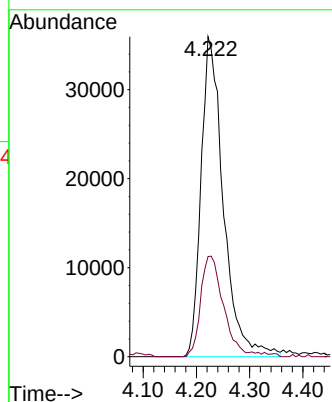
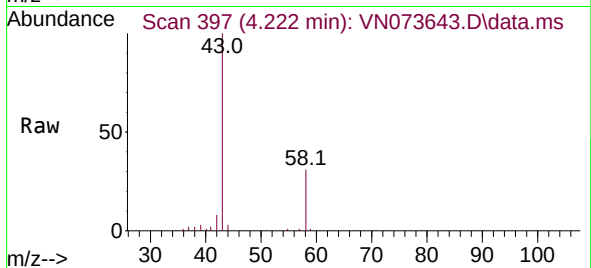
PB146545ZHE#04

Tgt Ion: 43 Resp: 104540

Ion Ratio Lower Upper

43 100

58 31.3 26.0 39.0



#18

Methyl Acetate

Concen: 1.248 ug/l

RT: 4.787 min Scan# 493

Delta R.T. 0.006 min

Lab File: VN073643.D

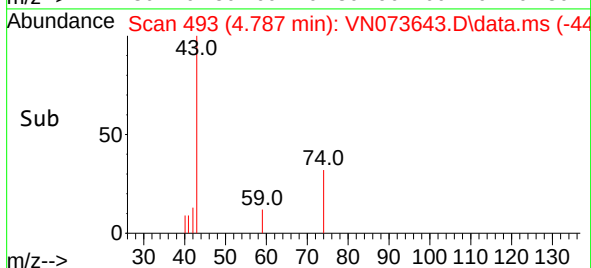
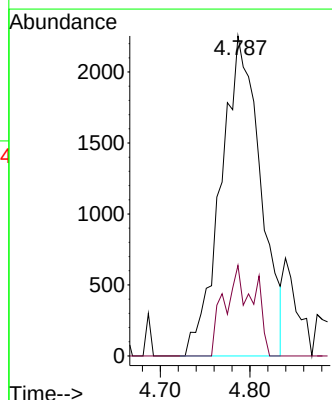
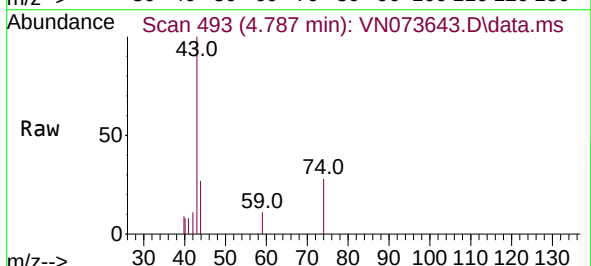
Acq: 29 Jul 2022 18:37

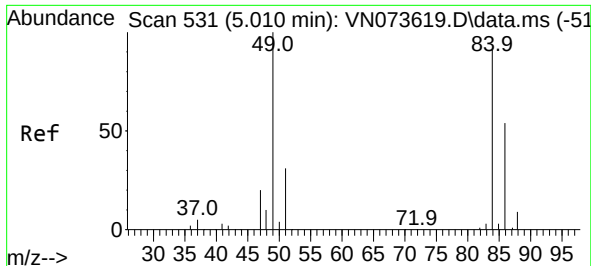
Tgt Ion: 43 Resp: 6921

Ion Ratio Lower Upper

43 100

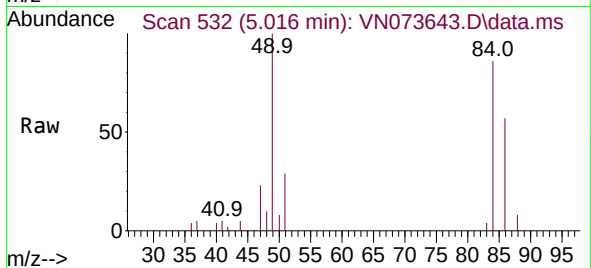
74 20.8 21.6 32.4#



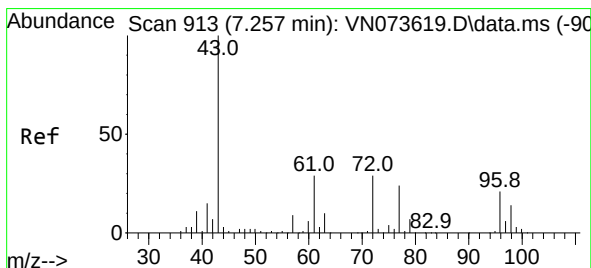
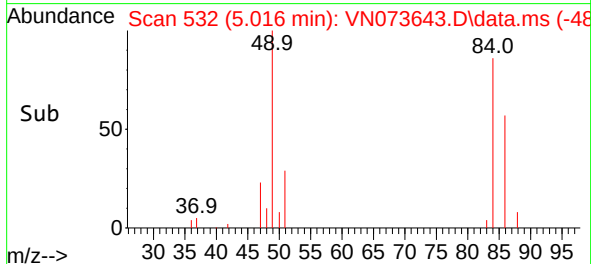
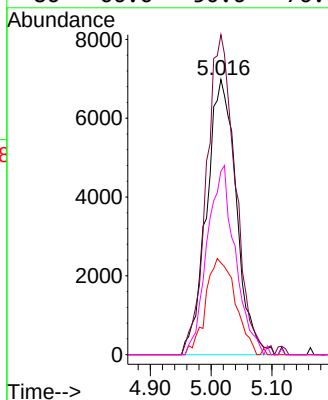


#20
Methylene Chloride
Concen: 4.594 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

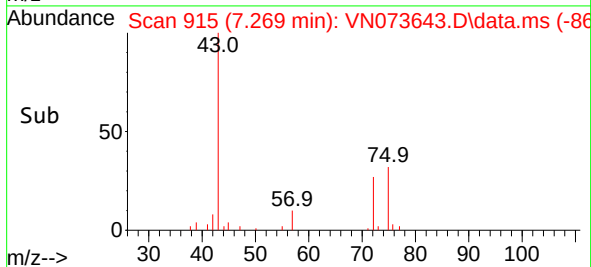
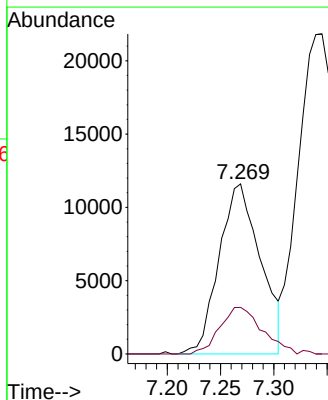
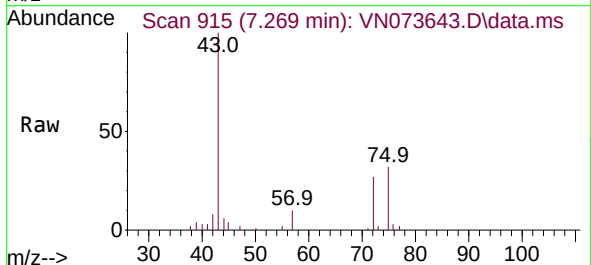


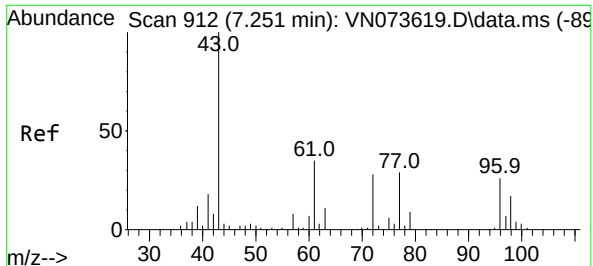
Tgt Ion: 84	Resp: 23781
Ion Ratio	Lower Upper
84 100	
49 116.2	88.3 132.5
51 33.4	28.2 42.2
86 66.6	50.6 76.0



#25
2-Butanone
Concen: 9.065 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 43	Resp: 31377
Ion Ratio	Lower Upper
43 100	
72 27.4	23.7 35.5

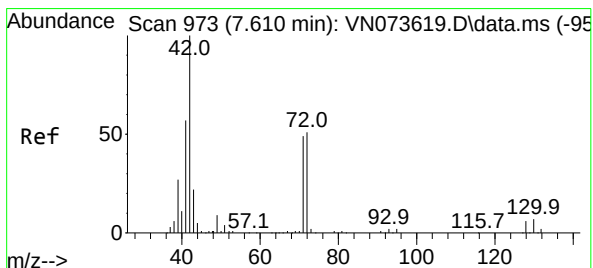
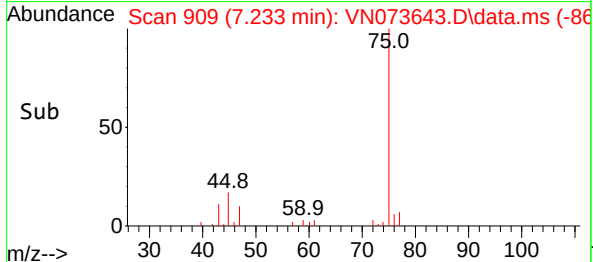
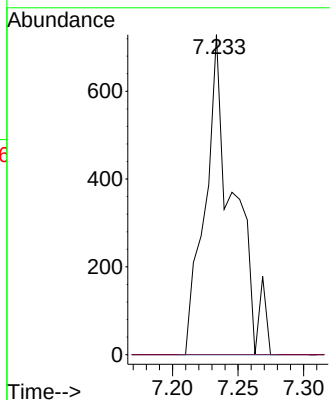
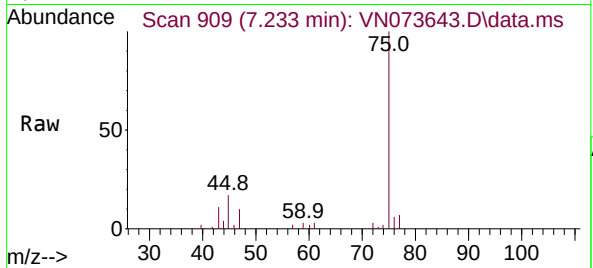




#26
2,2-Dichloropropane
Concen: 0.210 ug/l
RT: 7.233 min Scan# 909
Delta R.T. -0.018 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

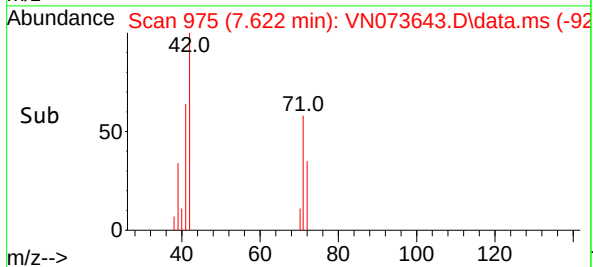
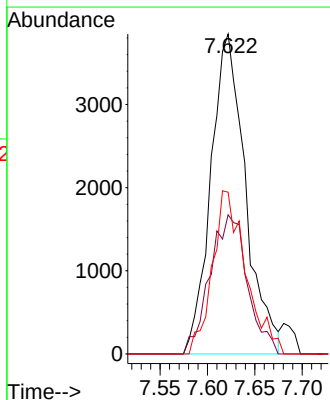
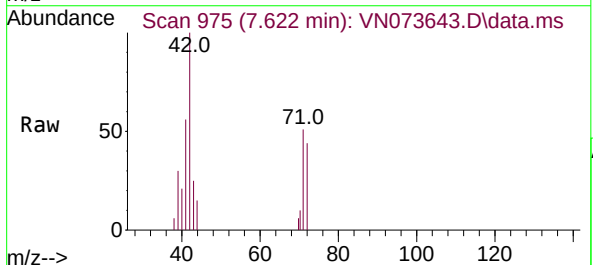
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

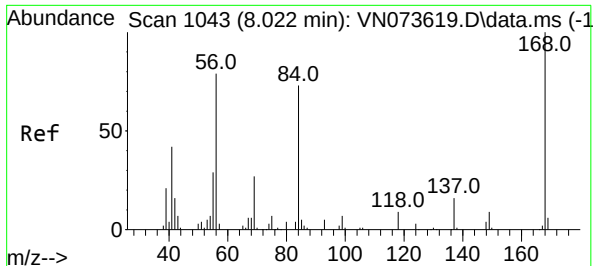
Tgt Ion: 77 Resp: 1107
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 4.467 ug/l
RT: 7.622 min Scan# 975
Delta R.T. 0.012 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 42 Resp: 9776
Ion Ratio Lower Upper
42 100
72 47.0 39.7 59.5
71 49.3 36.6 55.0





#31

Cyclohexane

Concen: 1.096 ug/l

RT: 8.016 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VN073643.D

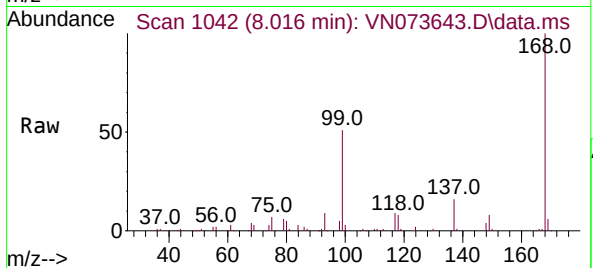
Acq: 29 Jul 2022 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB146545ZHE#04



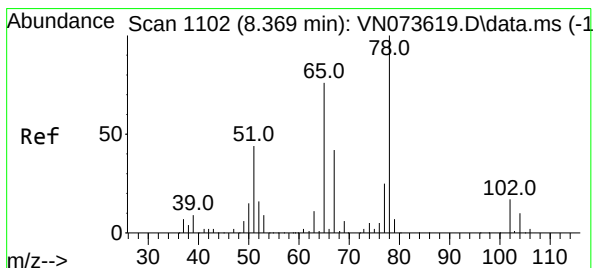
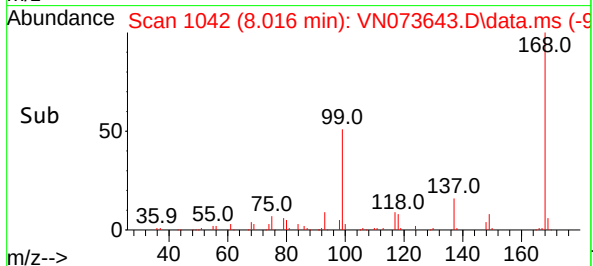
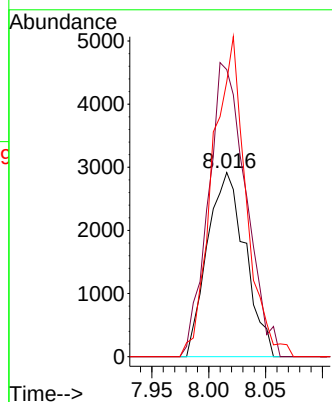
Tgt Ion: 56 Resp: 6771

Ion Ratio Lower Upper

56 100

69 155.9 27.8 41.8#

84 149.3 76.9 115.3#



#33

1,2-Dichloroethane-d4

Concen: 46.213 ug/l

RT: 8.375 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VN073643.D

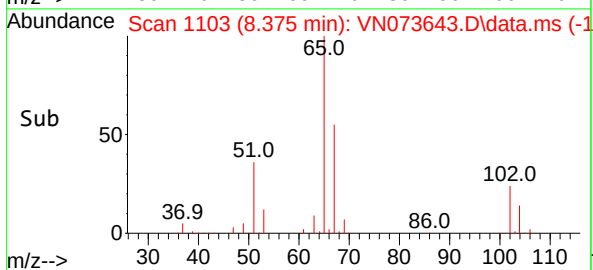
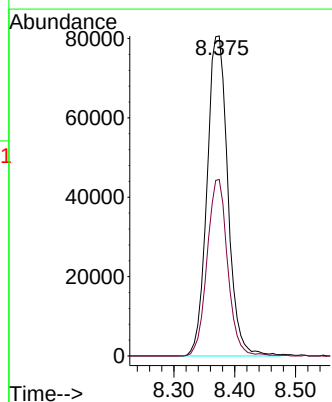
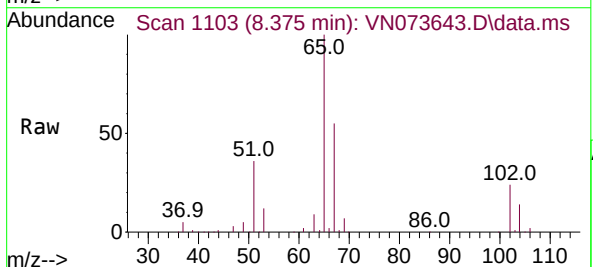
Acq: 29 Jul 2022 18:37

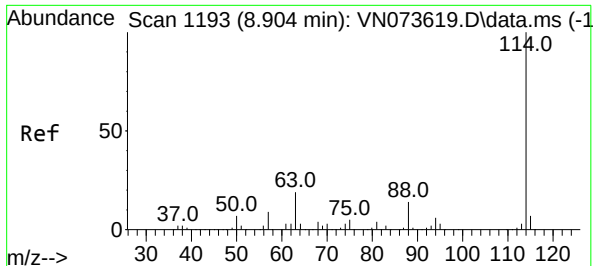
Tgt Ion: 65 Resp: 191763

Ion Ratio Lower Upper

65 100

67 54.5 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: VN073643.D

Acq: 29 Jul 2022 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB146545ZHE#04

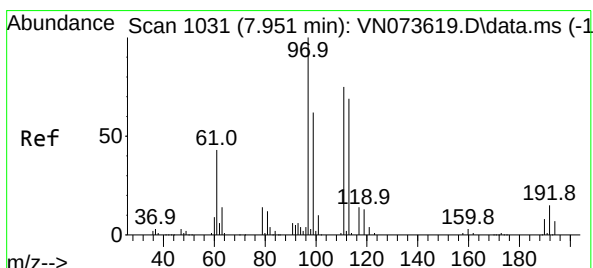
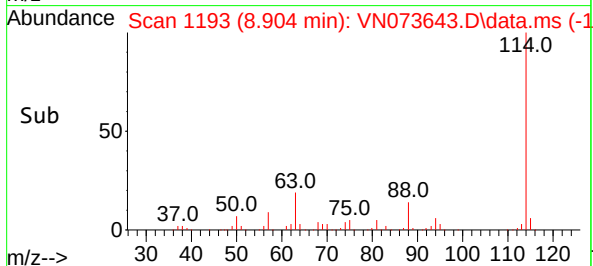
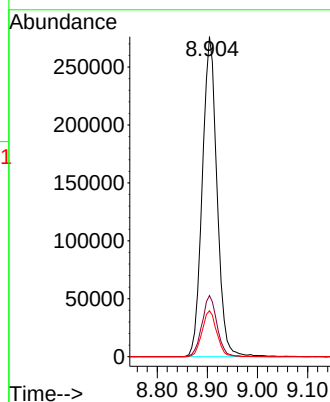
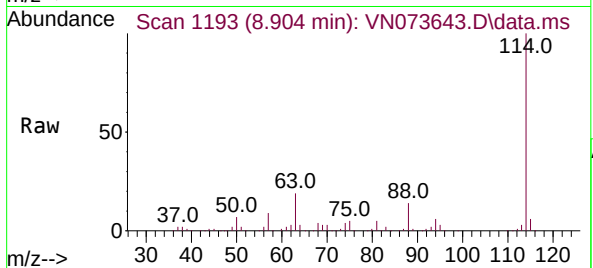
Tgt Ion:114 Resp: 563391

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 14.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.761 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN073643.D

Acq: 29 Jul 2022 18:37

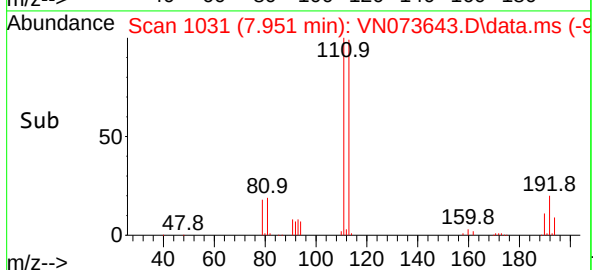
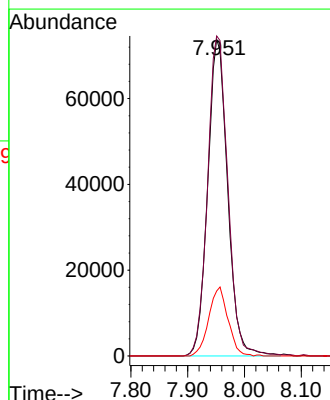
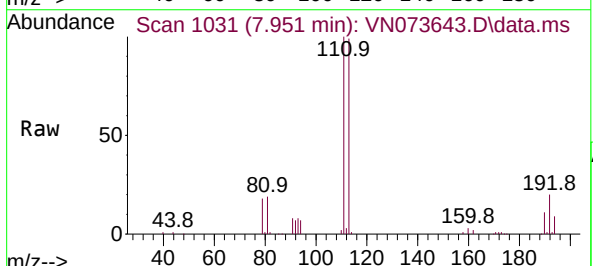
Tgt Ion:113 Resp: 179578

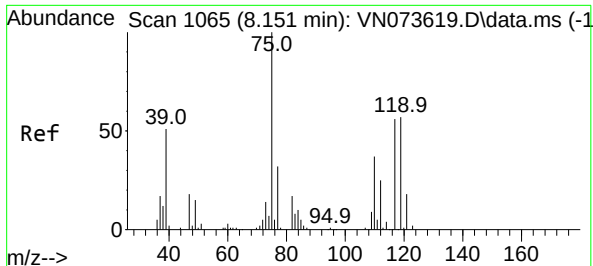
Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

192 21.0 17.0 25.6

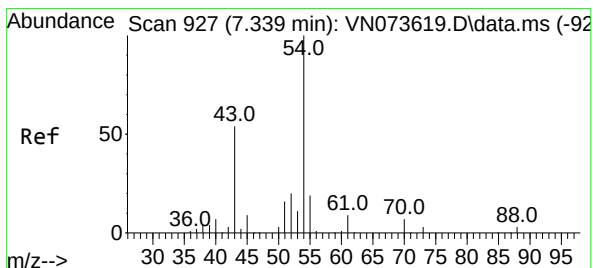
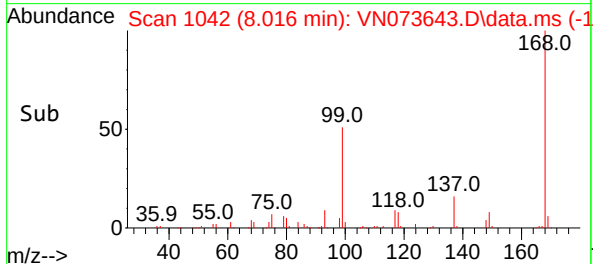
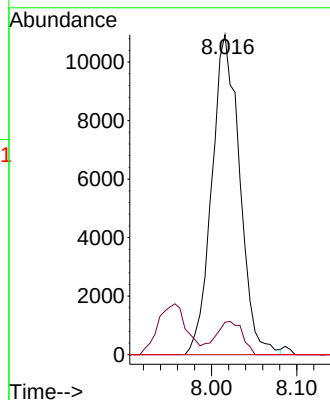
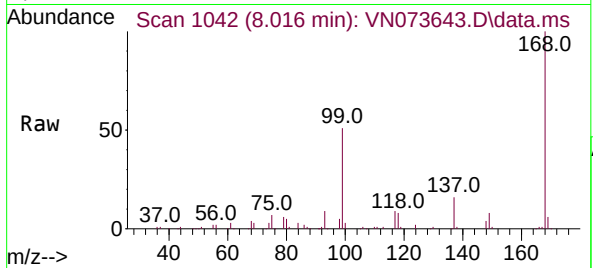




#36
1,1-Dichloropropene
Concen: 4.934 ug/l
RT: 8.016 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

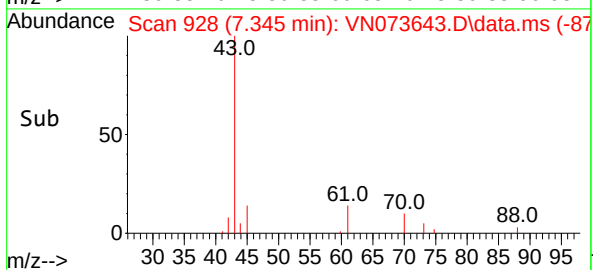
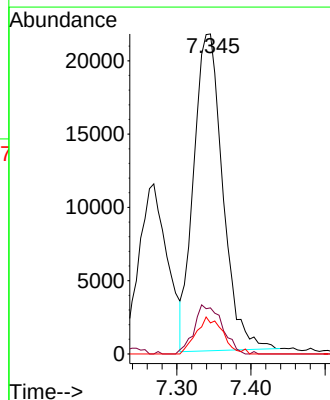
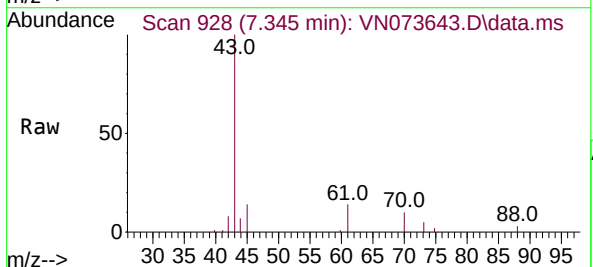
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

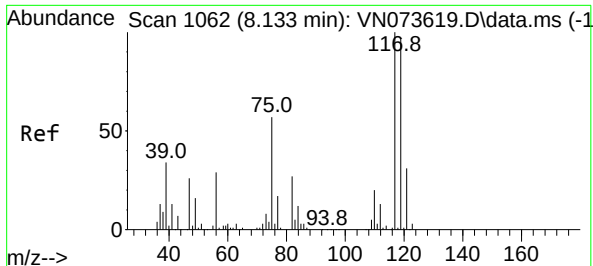
Tgt Ion: 75 Resp: 24877
Ion Ratio Lower Upper
75 100
110 9.7 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 8.880 ug/l
RT: 7.345 min Scan# 928
Delta R.T. 0.006 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

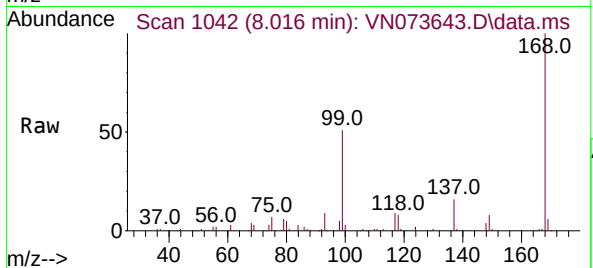
Tgt Ion: 43 Resp: 58968
Ion Ratio Lower Upper
43 100
61 14.9 11.8 17.6
70 10.7 9.3 13.9



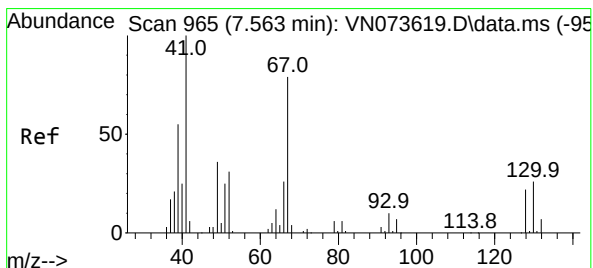
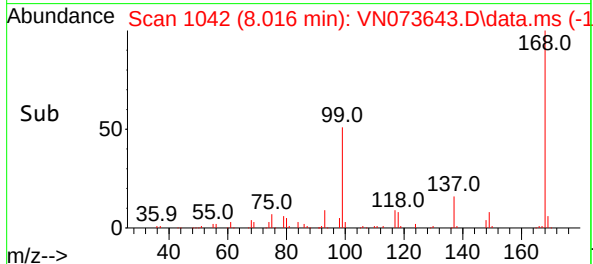
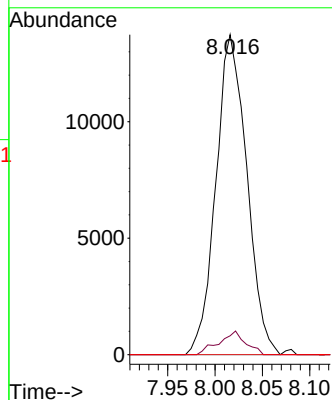


#38
Carbon Tetrachloride
Concen: 6.085 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

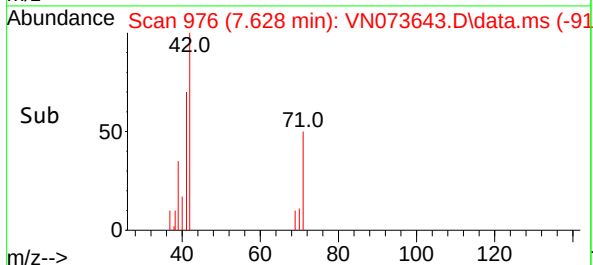
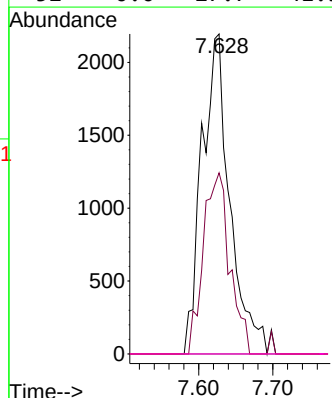
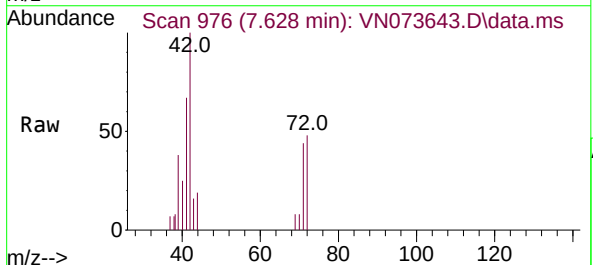


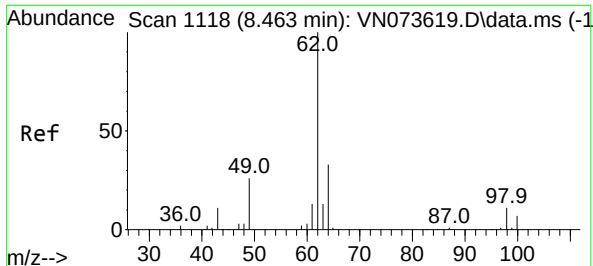
Tgt Ion:117 Resp: 31162
Ion Ratio Lower Upper
117 100
119 5.9 75.8 113.8#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 1.929 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.065 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 41 Resp: 5795
Ion Ratio Lower Upper
41 100
39 53.0 48.6 73.0
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#





#42

1,2-Dichloroethane

Concen: 0.306 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.035 min

Lab File: VN073643.D

Acq: 29 Jul 2022 18:37

Instrument :

MSVOA_N

ClientSampleId :

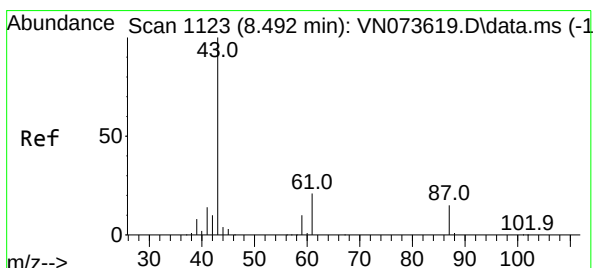
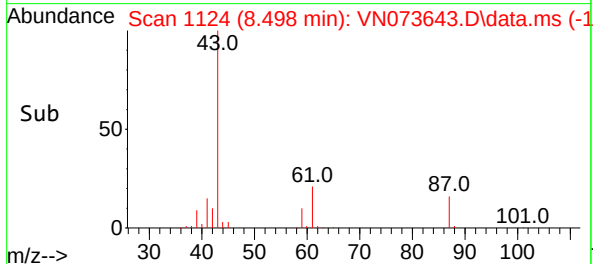
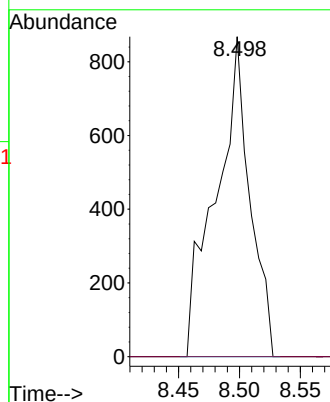
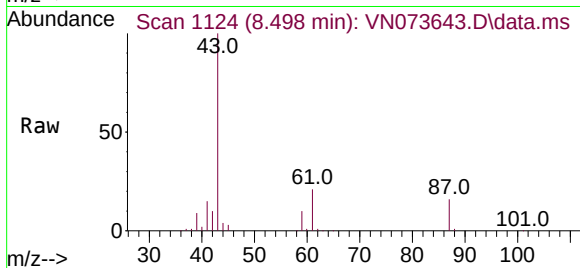
PB146545ZHE#04

Tgt Ion: 62 Resp: 1688

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 26.608 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073643.D

Acq: 29 Jul 2022 18:37

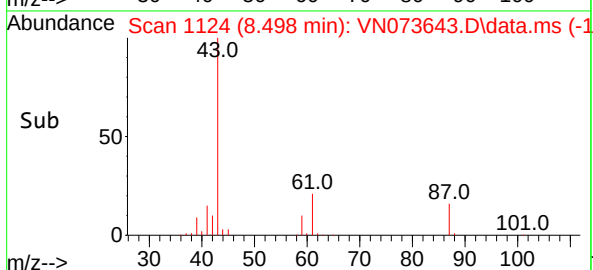
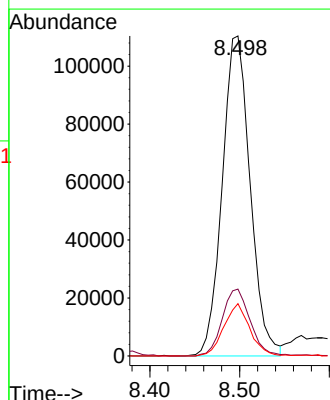
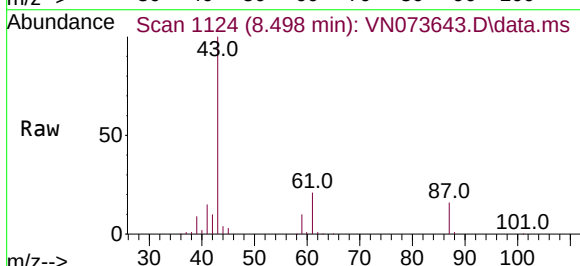
Tgt Ion: 43 Resp: 238645

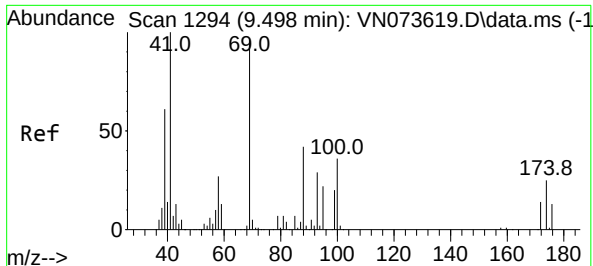
Ion Ratio Lower Upper

43 100

61 20.9 21.9 32.9#

87 15.3 12.0 18.0

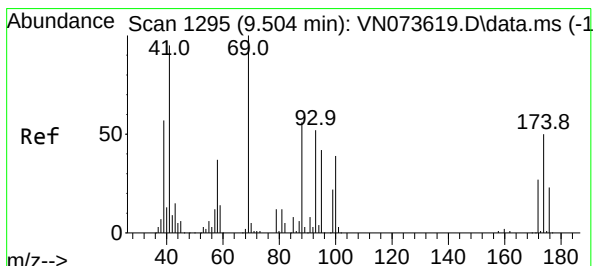
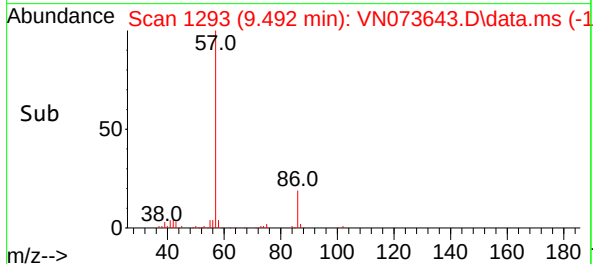
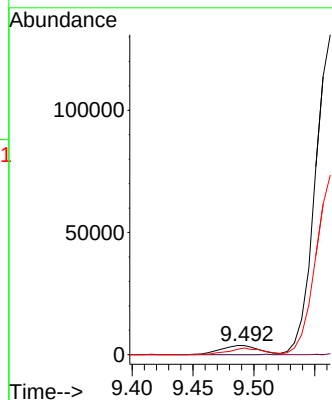
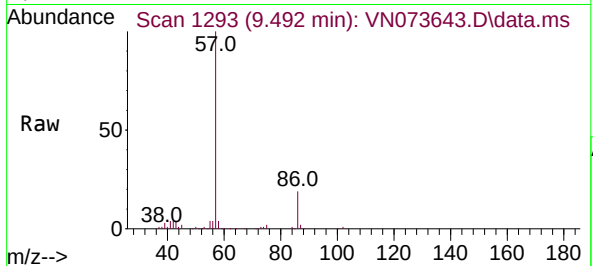




#48
Methyl methacrylate
Concen: 2.140 ug/l
RT: 9.492 min Scan# 1293
Delta R.T. -0.006 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

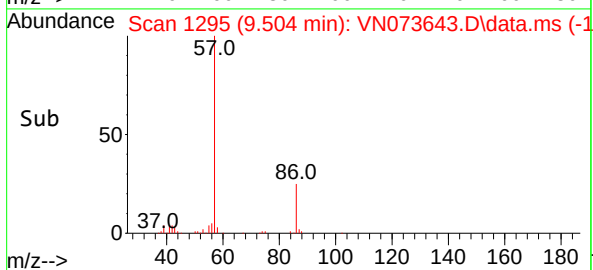
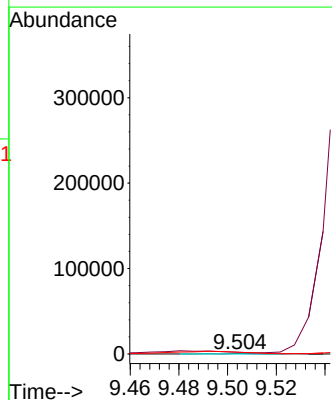
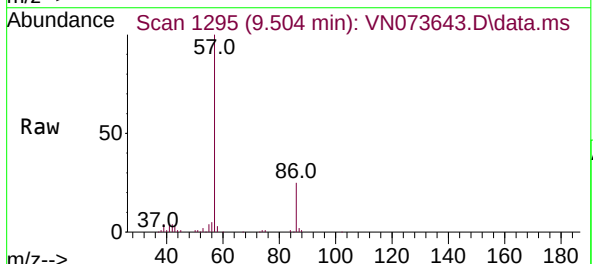
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

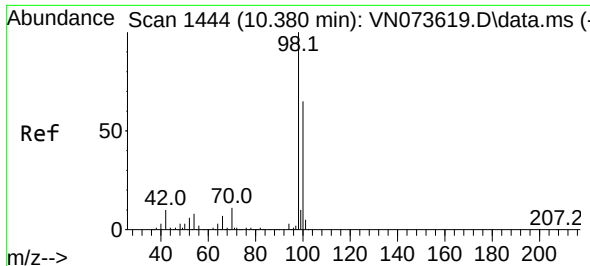
Tgt Ion: 41 Resp: 8401
Ion Ratio Lower Upper
41 100
69 0.8 74.7 112.1#
39 64.1 45.6 68.4



#49
1,4-Dioxane
Concen: 2.160 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. -0.000 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 88 Resp: 239
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 2866.9 54.2 81.4#

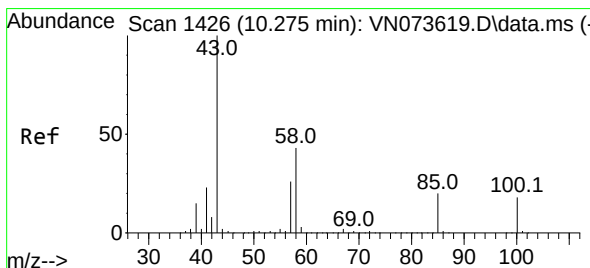
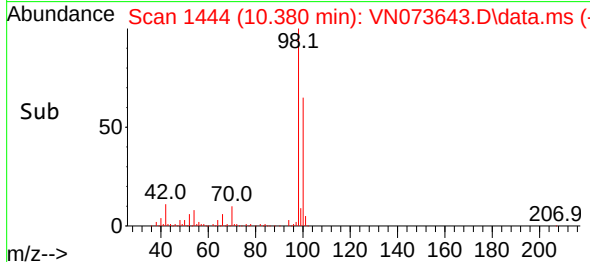
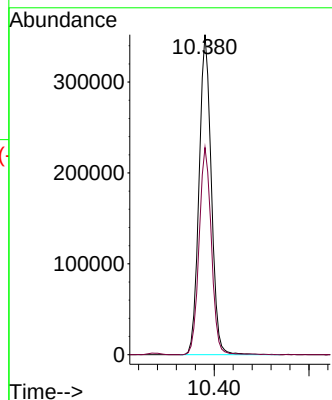
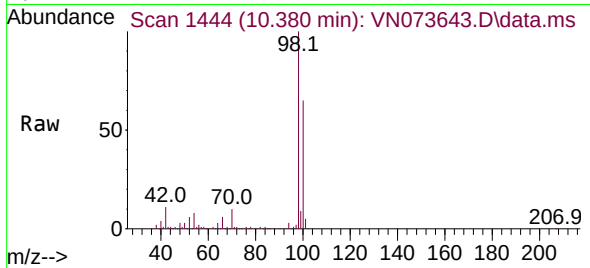




#50
Toluene-d8
Concen: 45.237 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

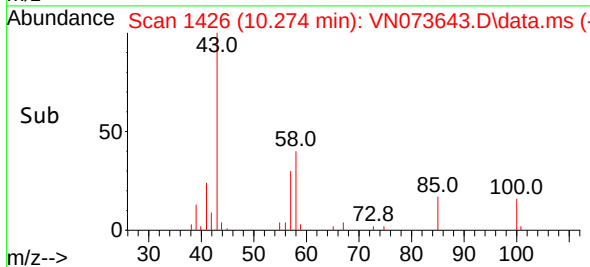
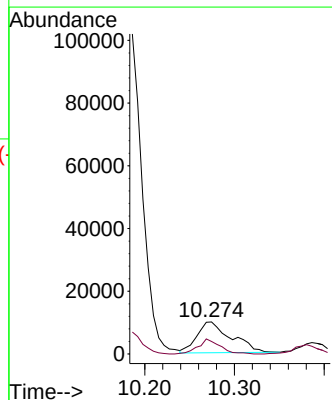
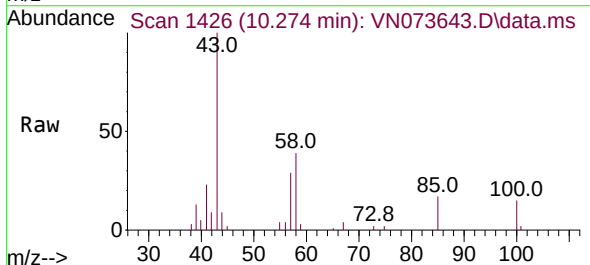
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

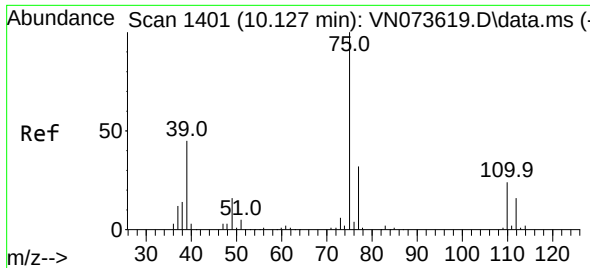
Tgt Ion: 98 Resp: 629762
Ion Ratio Lower Upper
98 100
100 65.1 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 4.070 ug/l
RT: 10.274 min Scan# 1426
Delta R.T. -0.001 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 43 Resp: 26180
Ion Ratio Lower Upper
43 100
58 31.1 34.1 51.1#

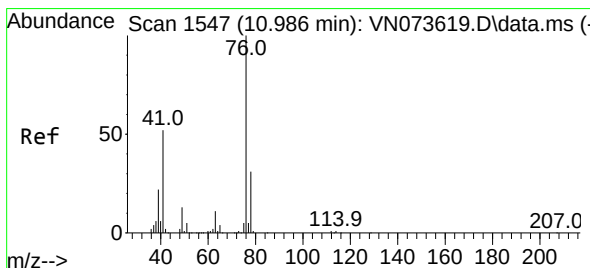
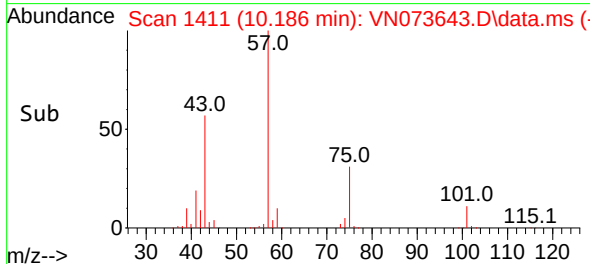
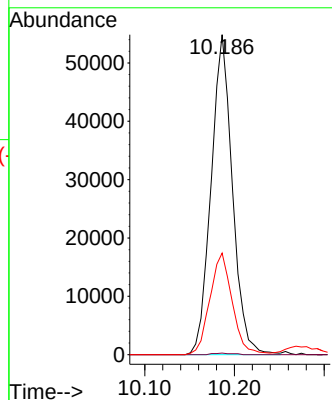
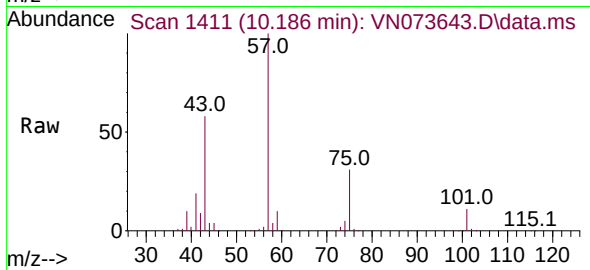




#54
 cis-1,3-Dichloropropene
 Concen: 14.910 ug/l
 RT: 10.186 min Scan# 14
 Delta R.T. 0.059 min
 Lab File: VN073643.D
 Acq: 29 Jul 2022 18:37

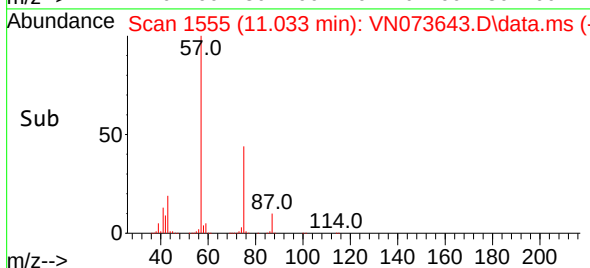
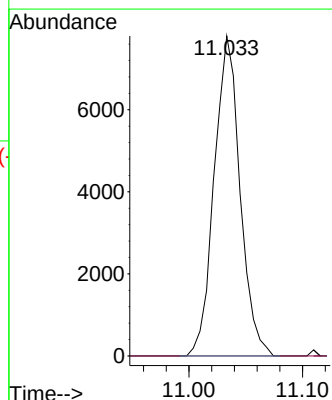
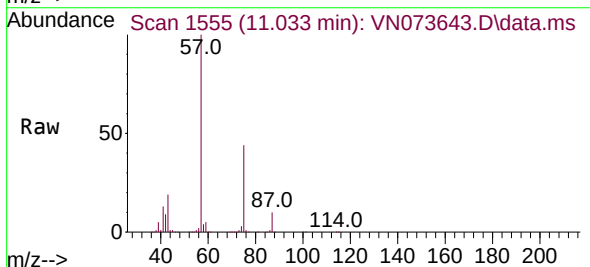
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#04

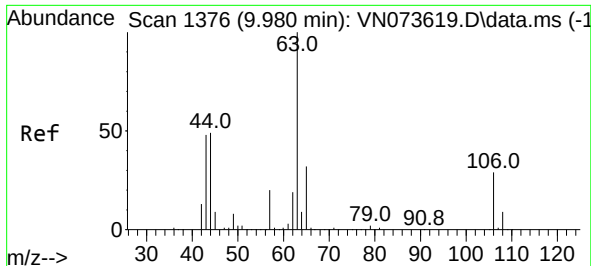
Tgt Ion: 75 Resp: 90490
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.2 37.8#
 39 31.7 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 1.743 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN073643.D
 Acq: 29 Jul 2022 18:37

Tgt Ion: 76 Resp: 12332
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#





#58

2-Chloroethyl Vinyl ether

Concen: 9.959 ug/l

RT: 10.192 min Scan# 1412

Delta R.T. 0.212 min

Lab File: VN073643.D

Acq: 29 Jul 2022 18:37

Instrument :

MSVOA_N

ClientSampleId :

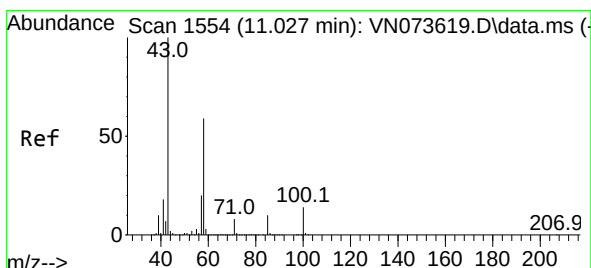
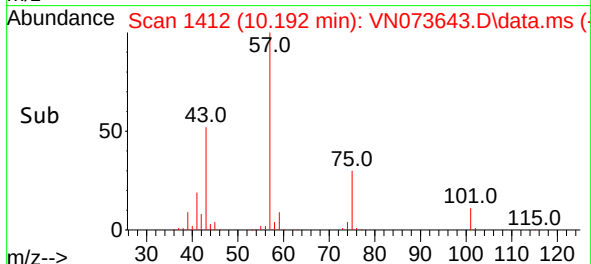
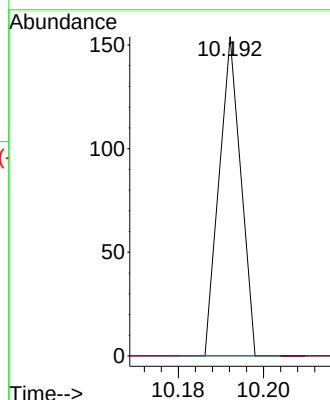
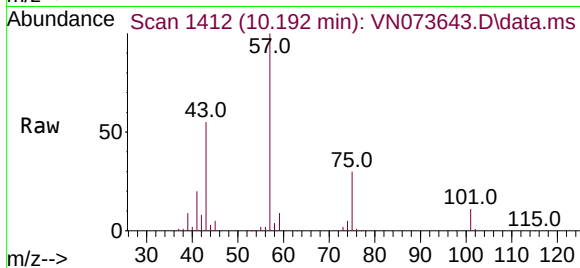
PB146545ZHE#04

Tgt Ion: 63 Resp: 54

Ion Ratio Lower Upper

63 100

106 0.0 24.6 36.8#



#59

2-Hexanone

Concen: 33.489 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN073643.D

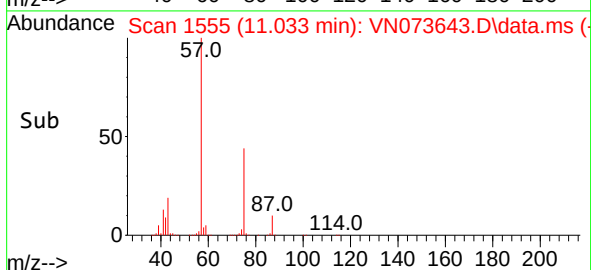
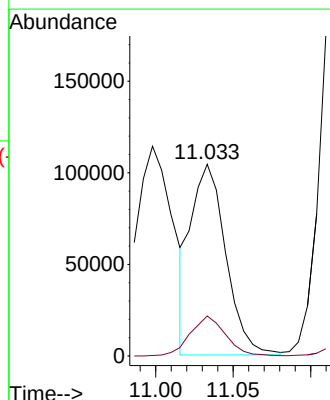
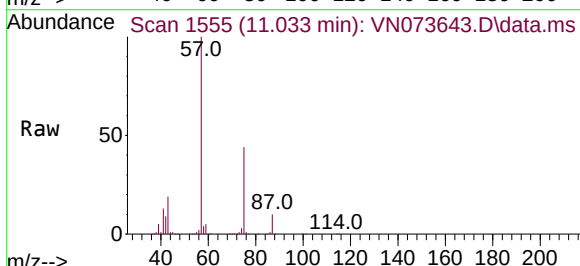
Acq: 29 Jul 2022 18:37

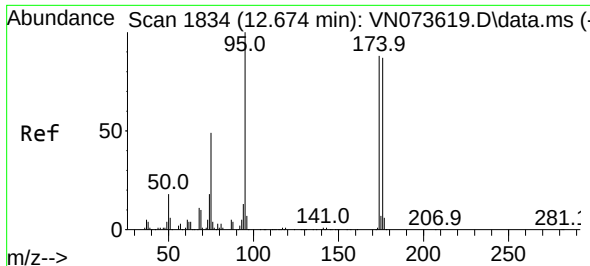
Tgt Ion: 43 Resp: 163221

Ion Ratio Lower Upper

43 100

58 21.3 29.7 89.1#

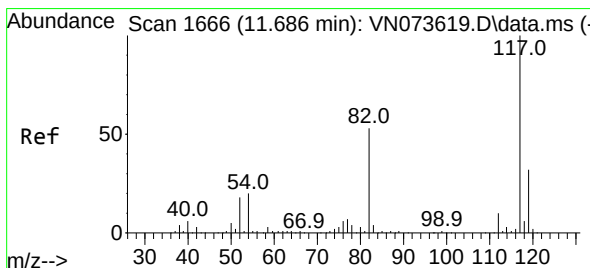
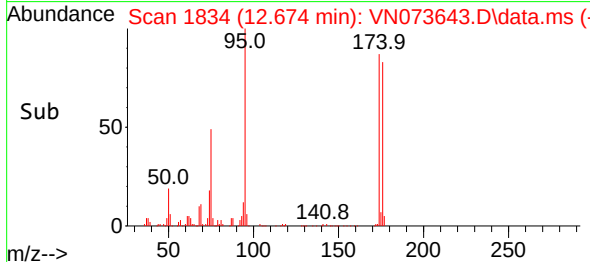
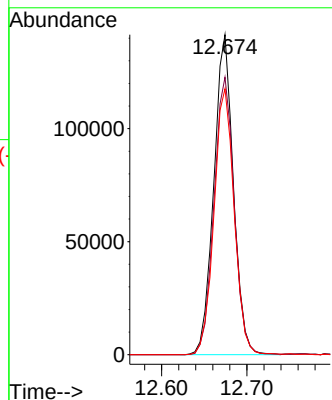
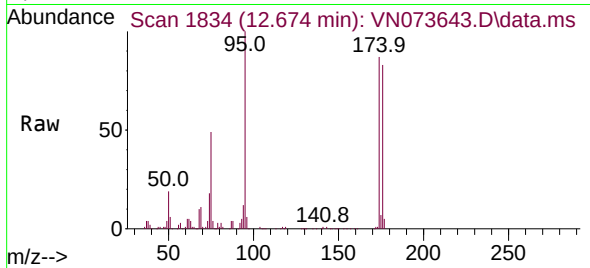




#62
4-Bromofluorobenzene
Concen: 48.789 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

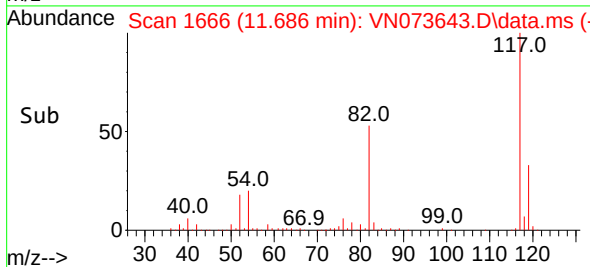
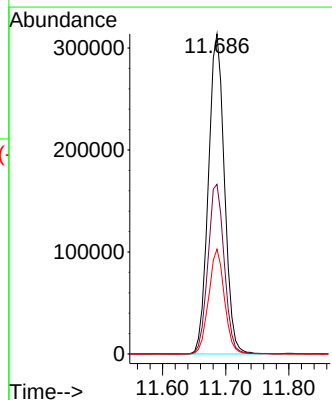
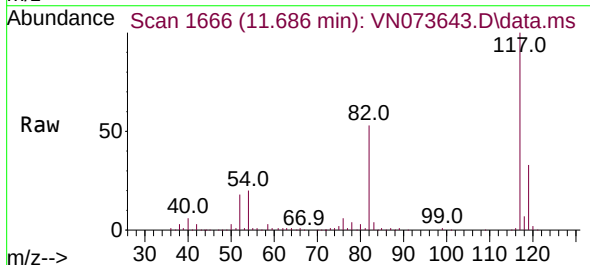
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

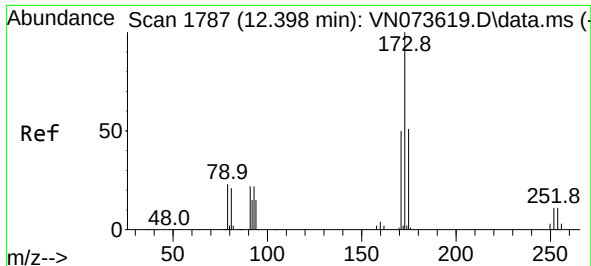
Tgt Ion: 95 Resp: 225858
Ion Ratio Lower Upper
95 100
174 89.4 0.0 167.6
176 85.5 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. -0.000 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 117 Resp: 553623
Ion Ratio Lower Upper
117 100
82 53.0 44.2 66.2
119 32.8 25.4 38.0

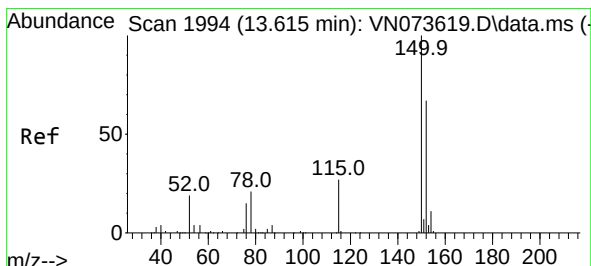
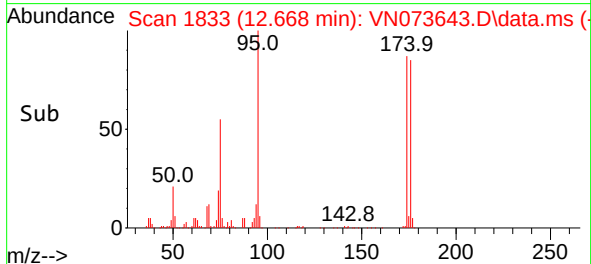
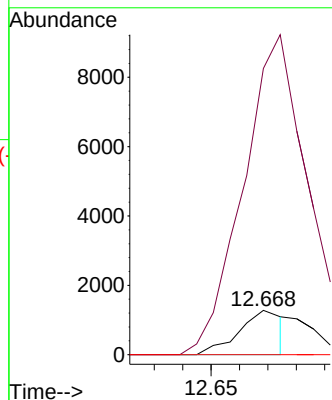
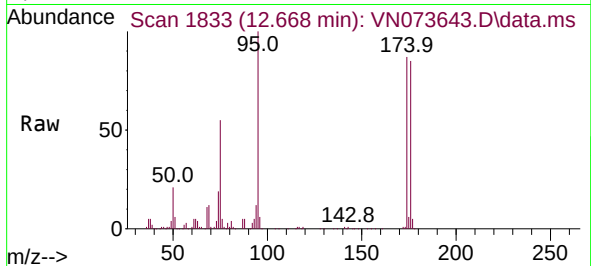




#71
Bromoform
Concen: 0.397 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

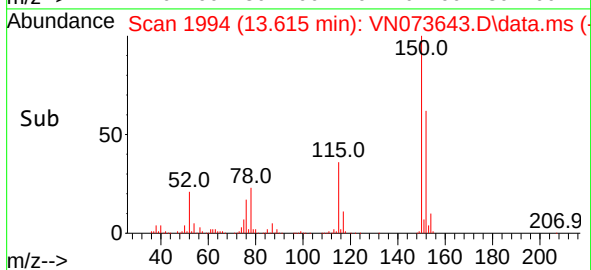
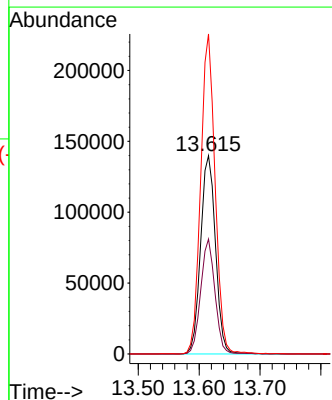
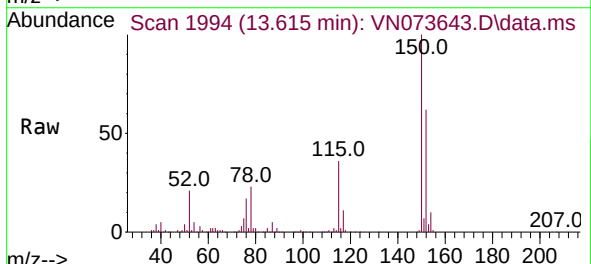
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

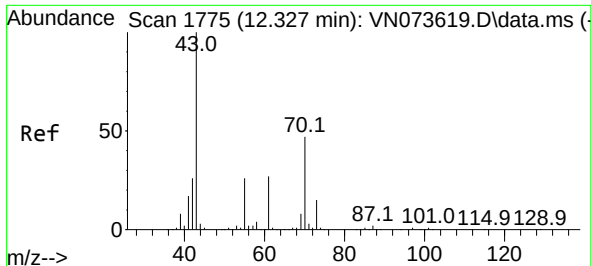
Tgt Ion:173 Resp: 1383
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.615 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion:152 Resp: 237887
Ion Ratio Lower Upper
152 100
115 55.5 28.9 86.7
150 156.4 0.0 356.2

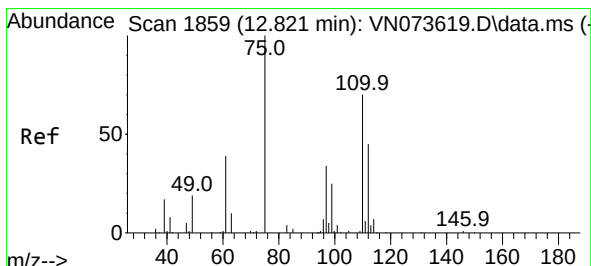
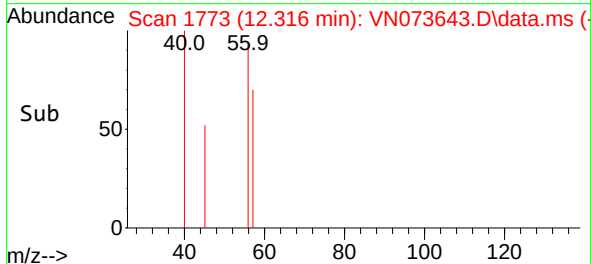
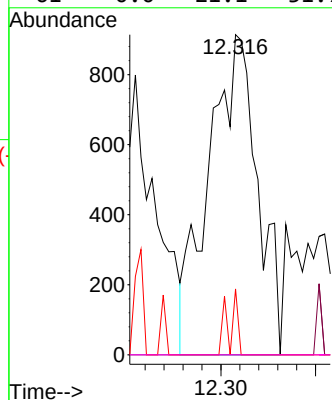
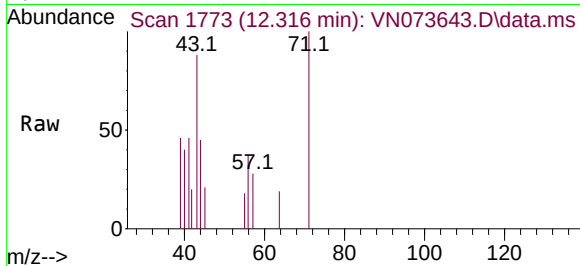




#74
N-amy1 acetate
Concen: 0.497 ug/l
RT: 12.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

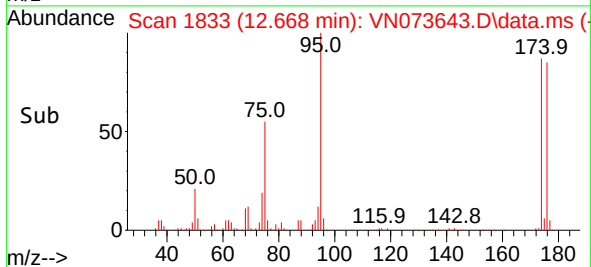
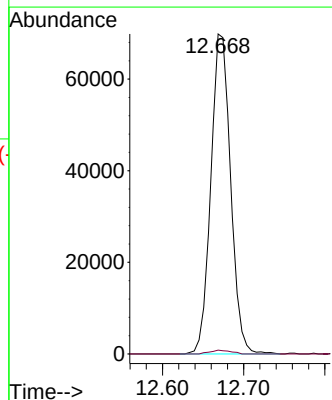
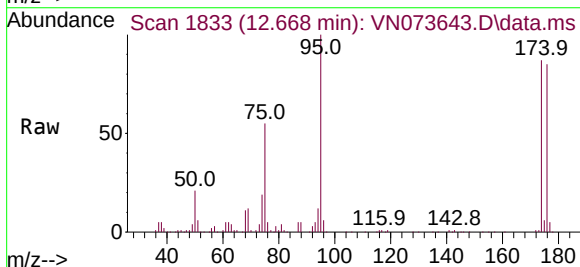
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#04

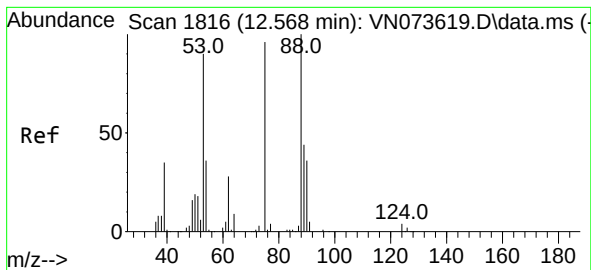
Tgt Ion: 43	Resp: 3271
Ion Ratio	Lower Upper
43 100	
70 0.0	39.0 58.4#
55 0.0	21.1 31.7#
61 0.0	21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 25.530 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.153 min
Lab File: VN073643.D
Acq: 29 Jul 2022 18:37

Tgt Ion: 75	Resp: 118131
Ion Ratio	Lower Upper
75 100	
77 1.3	98.5 295.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.354 ug/l
 RT: 12.668 min Scan# 11
 Delta R.T. 0.100 min
 Lab File: VN073643.D
 Acq: 29 Jul 2022 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#04

Tgt Ion: 75 Resp: 118131
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.0 117.0#
 89 0.0 37.2 55.8#

