

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081122\
 Data File : VN073828.D
 Acq On : 11 Aug 2022 16:28
 Operator : JC\MD
 Sample : PB146912ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146912ZHE#03

Quant Time: Aug 12 06:03:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 10 05:09:32 2022
 Response via : Initial Calibration

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

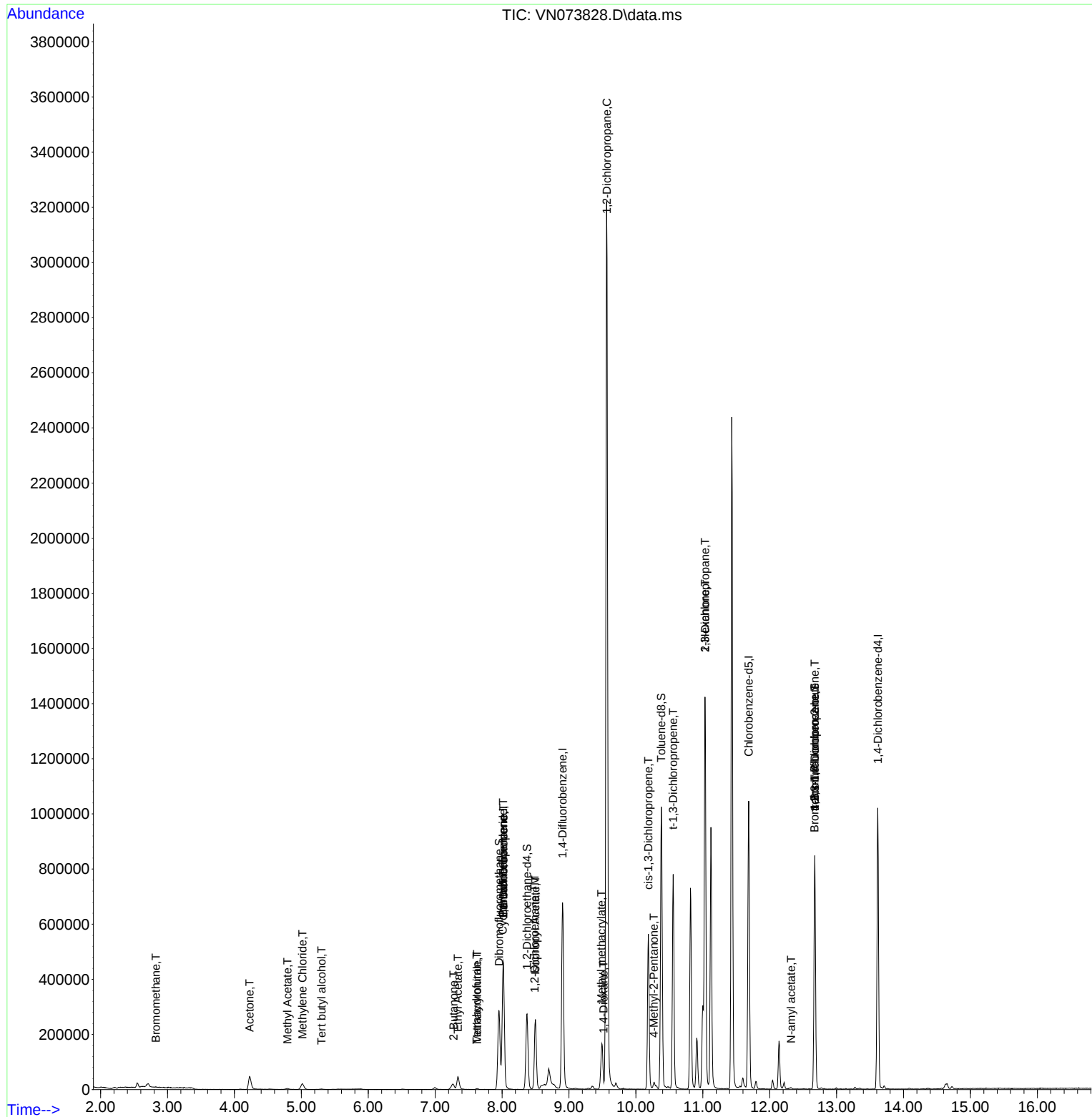
Internal Standards						
1) Pentafluorobenzene	8.016	168	383090	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	632028	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	618121	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	290364	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	227535	48.738	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.480%		
35) Dibromofluoromethane	7.957	113	215412	54.277	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.560%		
50) Toluene-d8	10.380	98	726495	46.518	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.040%		
62) 4-Bromofluorobenzene	12.674	95	270213	49.326	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.660%		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	811	Below Cal		99
5) Bromomethane	2.828	94	1010	0.268 ug/l #		75
6) Chloroethane	2.987	64	291	Below Cal #		42
11) Tert butyl alcohol	5.304	59	3256	3.234 ug/l #		78
16) Acetone	4.228	43	84446	33.677 ug/l		100
18) Methyl Acetate	4.793	43	7833	1.256 ug/l #		89
20) Methylene Chloride	5.016	84	17686	2.255 ug/l		98
25) 2-Butanone	7.275	43	26075	6.696 ug/l #		87
29) Tetrahydrofuran	7.622	42	2195	0.892 ug/l		90
31) Cyclohexane	8.010	56	7113	1.023 ug/l #		1
36) 1,1-Dichloropropene	8.022	75	26386	4.665 ug/l #		50
37) Ethyl Acetate	7.339	43	73089	9.812 ug/l		99
38) Carbon Tetrachloride	8.016	117	35210	6.129 ug/l #		19
41) Methacrylonitrile	7.628	41	1211	0.359 ug/l #		37
42) 1,2-Dichloroethane	8.486	62	2077	0.336 ug/l #		74
43) Isopropyl Acetate	8.498	43	277498	27.580 ug/l #		92
45) 1,2-Dichloropropane	9.569	63	4194	0.913 ug/l #		44
48) Methyl methacrylate	9.486	41	10207	2.318 ug/l #		38
49) 1,4-Dioxane	9.516	88	64	0.516 ug/l #		25
51) 4-Methyl-2-Pentanone	10.269	43	13228	1.833 ug/l		89
53) t-1,3-Dichloropropene	10.557	75	2040	0.338 ug/l #		69
54) cis-1,3-Dichloropropene	10.186	75	105153	15.445 ug/l #		65
57) 1,3-Dichloropropane	11.033	76	15385	1.938 ug/l #		43
59) 2-Hexanone	11.033	43	198400	36.287 ug/l #		50
71) Bromoform	12.669	173	1591	0.409 ug/l #		28
74) N-amyl acetate	12.322	43	1822	0.227 ug/l #		45
76) 1,2,3-Trichloropropane	12.674	75	136978	24.080 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.674	75	136978	61.135 ug/l #		11

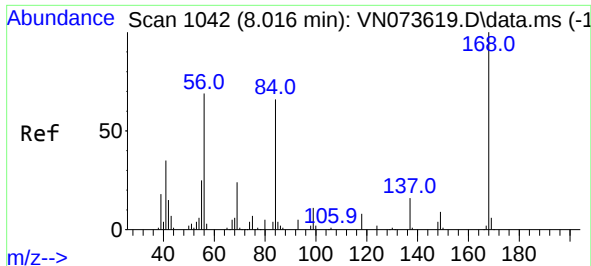
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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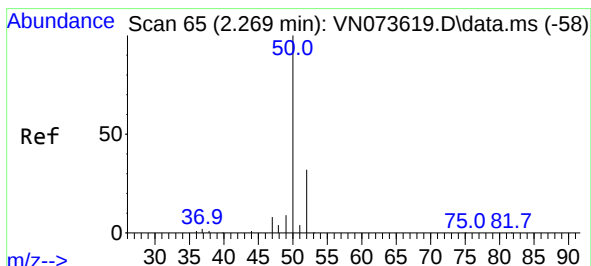
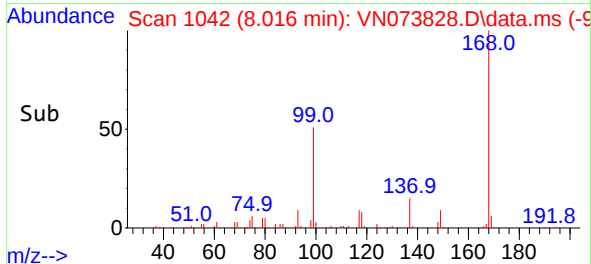
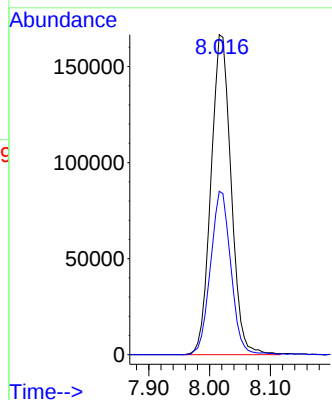
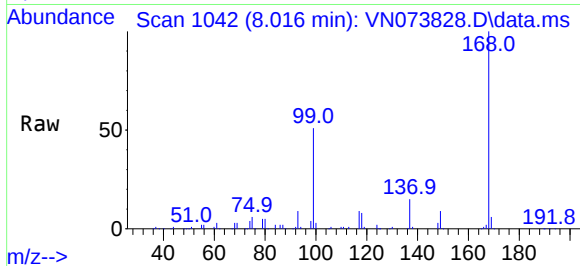




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

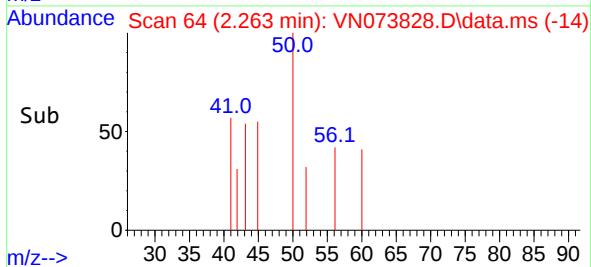
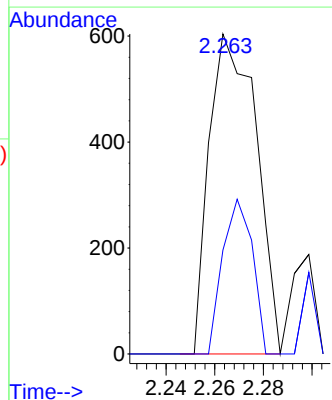
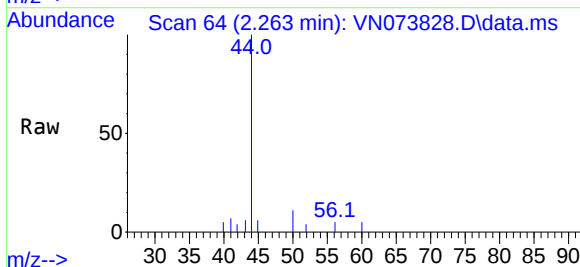
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

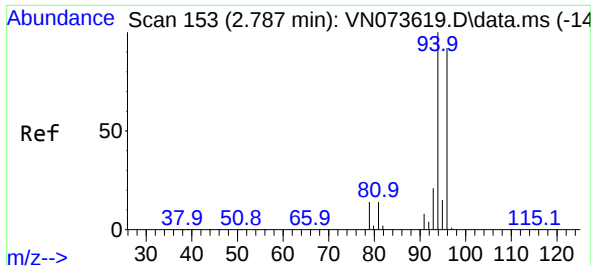
Tgt Ion:168 Resp: 383090
Ion Ratio Lower Upper
168 100
99 51.0 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 50 Resp: 811
Ion Ratio Lower Upper
50 100
52 32.5 25.7 38.5

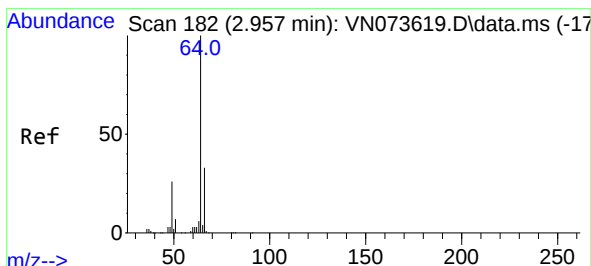
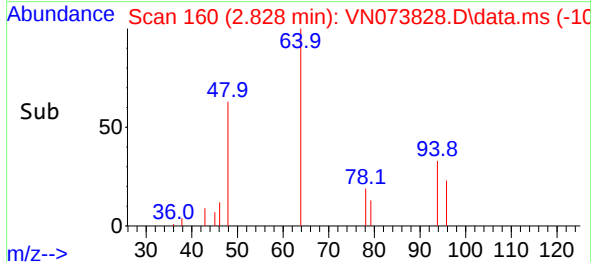
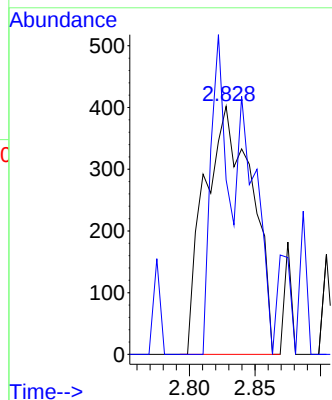
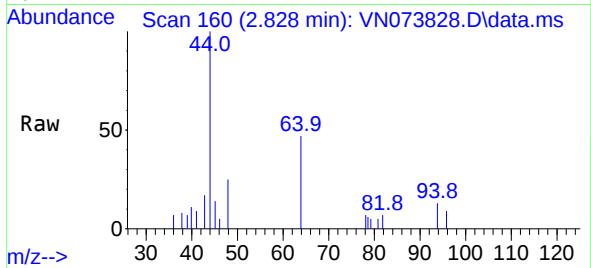




#5
Bromomethane
Concen: 0.268 ug/l
RT: 2.828 min Scan# 10
Delta R.T. 0.041 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

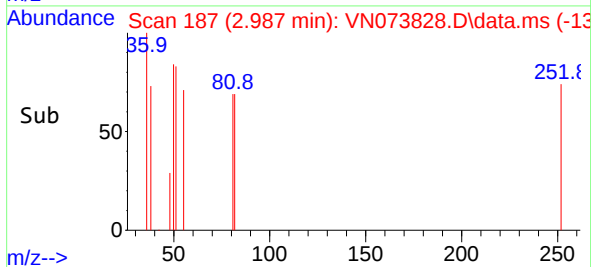
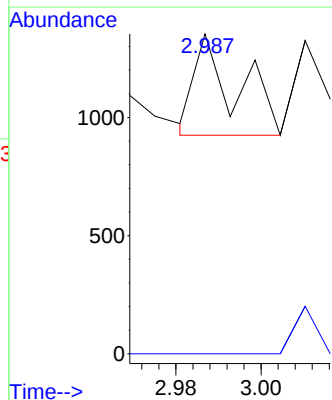
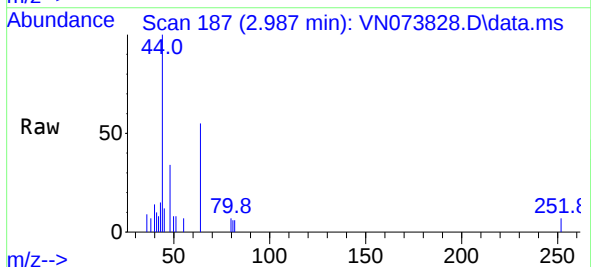
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

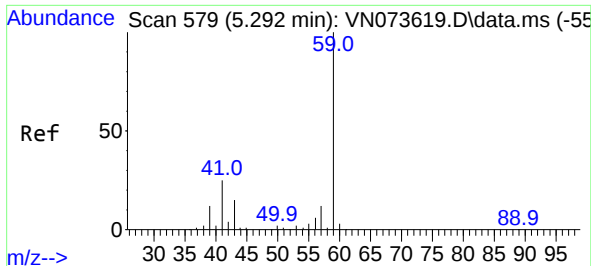
Tgt Ion: 94 Resp: 1010
Ion Ratio Lower Upper
94 100
96 70.4 76.0 114.0#



#6
Chloroethane
Concen: Below Cal
RT: 2.987 min Scan# 187
Delta R.T. 0.030 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 64 Resp: 291
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#

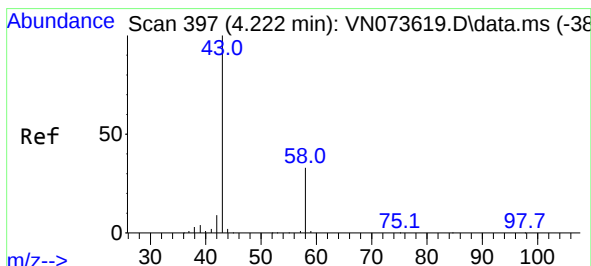
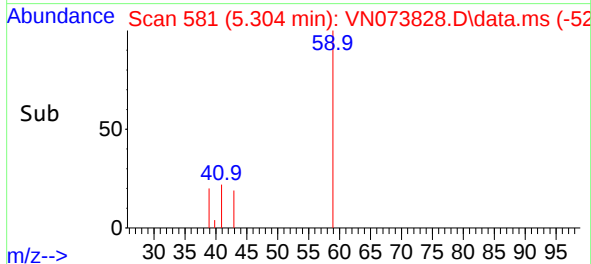
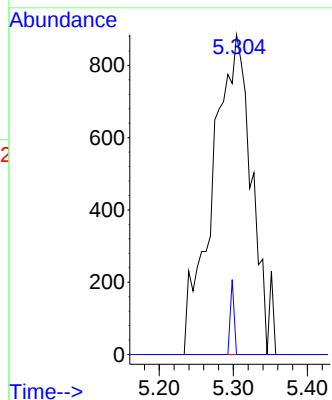
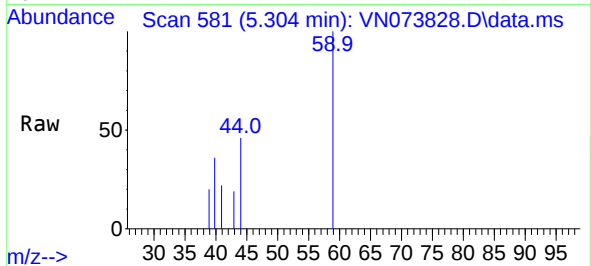




#11
Tert butyl alcohol
Concen: 3.234 ug/l
RT: 5.304 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

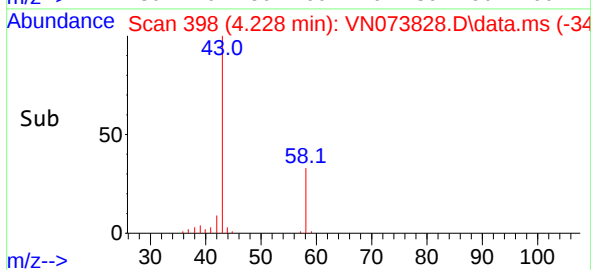
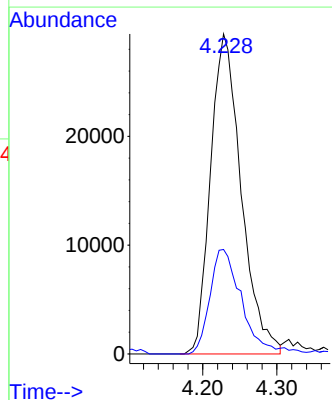
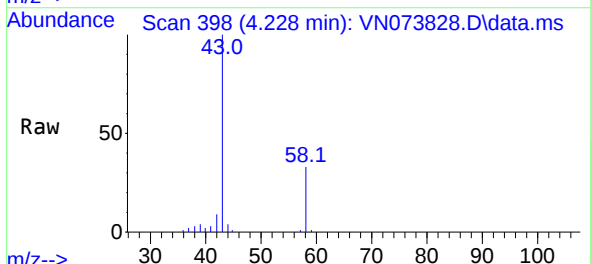
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

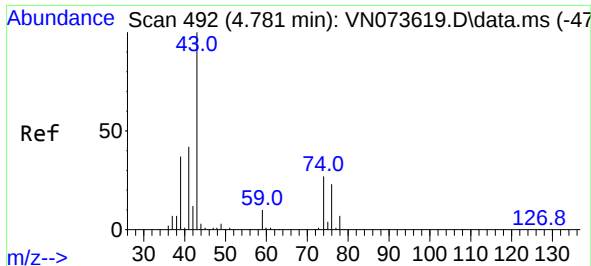
Tgt Ion: 59 Resp: 3256
Ion Ratio Lower Upper
59 100
57 2.2 8.3 12.5#



#16
Acetone
Concen: 33.677 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.006 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 43 Resp: 84446
Ion Ratio Lower Upper
43 100
58 32.7 26.0 39.0

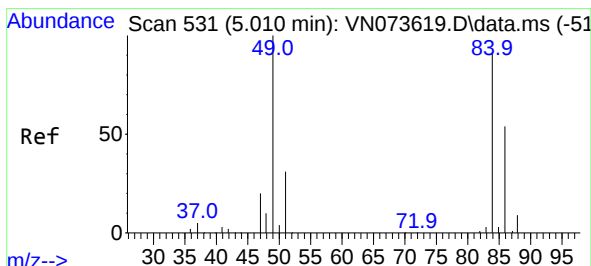
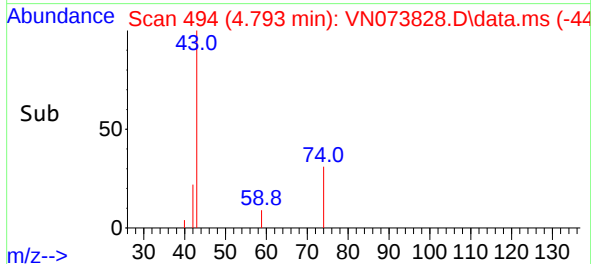
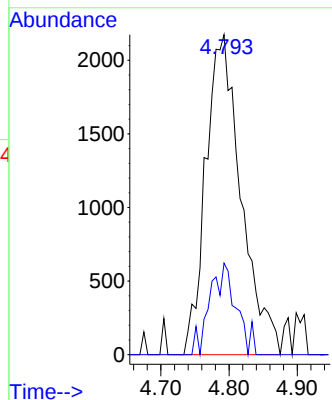
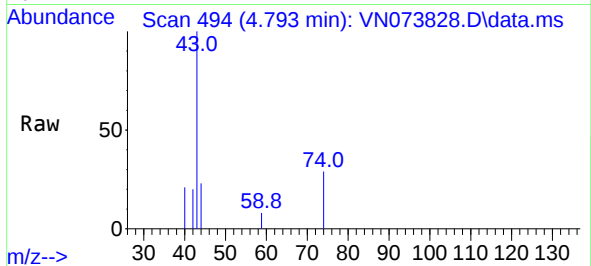




#18
Methyl Acetate
Concen: 1.256 ug/l
RT: 4.793 min Scan# 494
Delta R.T. 0.012 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

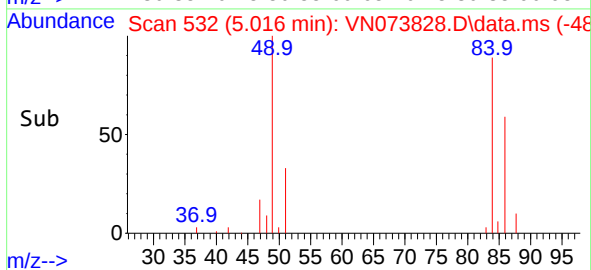
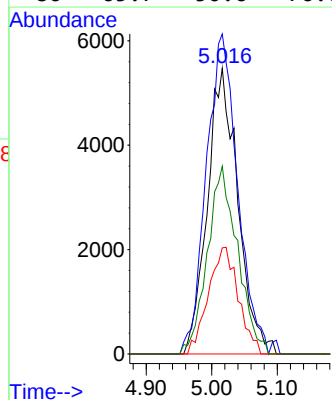
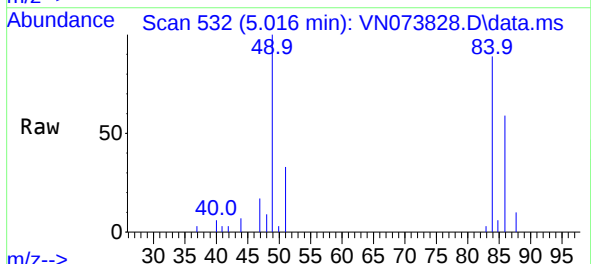
Instrument :
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ClientSampleId :
PB146912ZHE#03

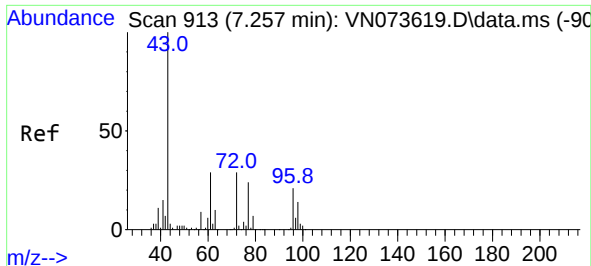
Tgt Ion: 43 Resp: 7833
Ion Ratio Lower Upper
43 100
74 21.4 21.6 32.4#



#20
Methylene Chloride
Concen: 2.255 ug/l
RT: 5.016 min Scan# 532
Delta R.T. 0.006 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 84 Resp: 17686
Ion Ratio Lower Upper
84 100
49 112.0 88.3 132.5
51 37.1 28.2 42.2
86 65.7 50.6 76.0





#25

2-Butanone

Concen: 6.696 ug/l

RT: 7.275 min Scan# 916

Delta R.T. 0.018 min

Lab File: VN073828.D

Acq: 11 Aug 2022 16:28

Instrument :

MSVOA_N

ClientSampleId :

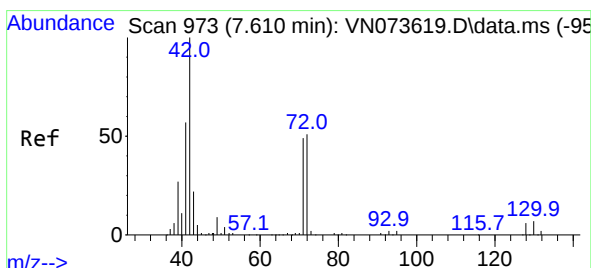
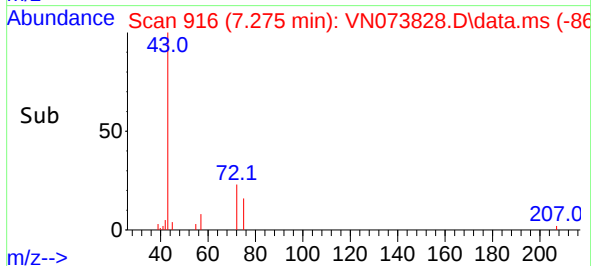
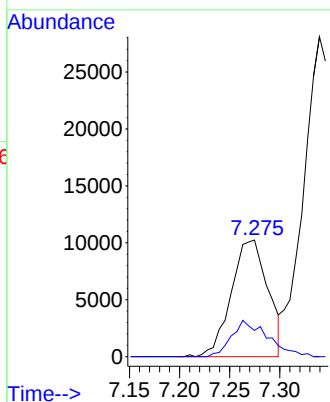
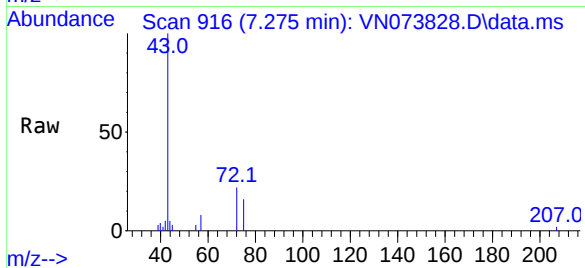
PB146912ZHE#03

Tgt Ion: 43 Resp: 26075

Ion Ratio Lower Upper

43 100

72 22.4 23.7 35.5#



#29

Tetrahydrofuran

Concen: 0.892 ug/l

RT: 7.622 min Scan# 975

Delta R.T. 0.012 min

Lab File: VN073828.D

Acq: 11 Aug 2022 16:28

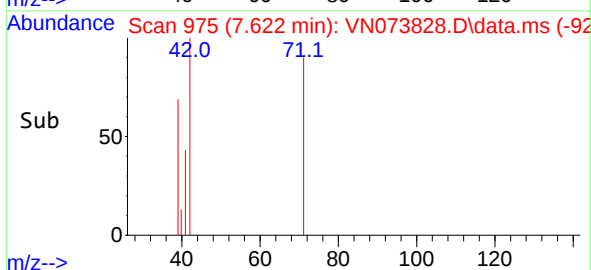
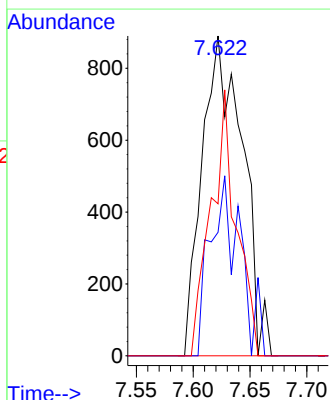
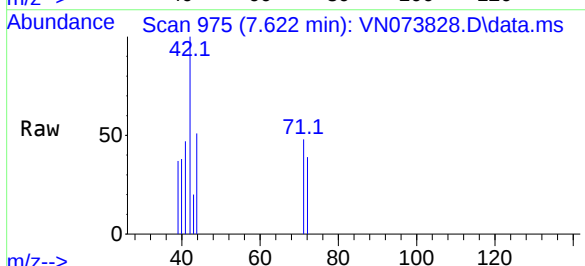
Tgt Ion: 42 Resp: 2195

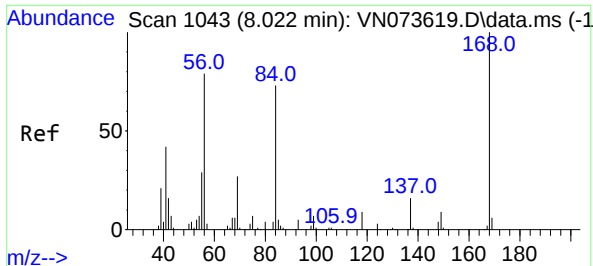
Ion Ratio Lower Upper

42 100

72 42.2 39.7 59.5

71 52.4 36.6 55.0

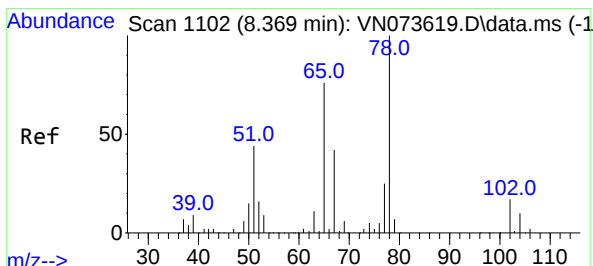
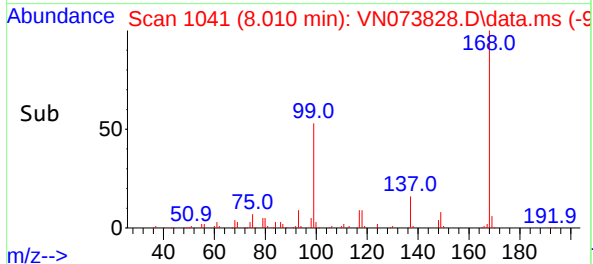
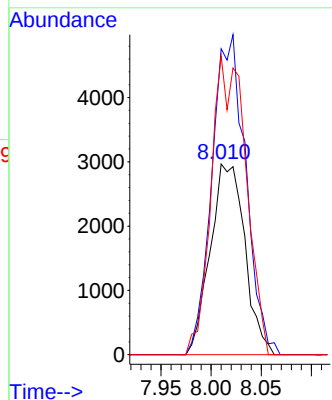
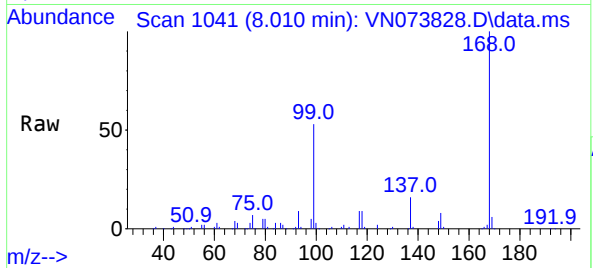




#31
Cyclohexane
Concen: 1.023 ug/l
RT: 8.010 min Scan# 1103
Delta R.T. -0.012 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

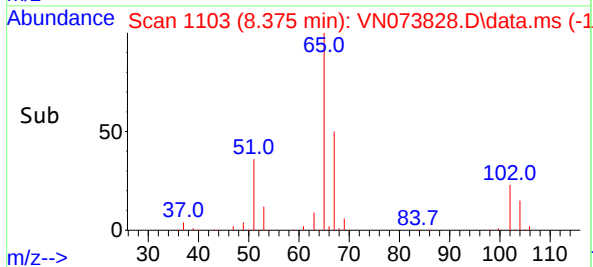
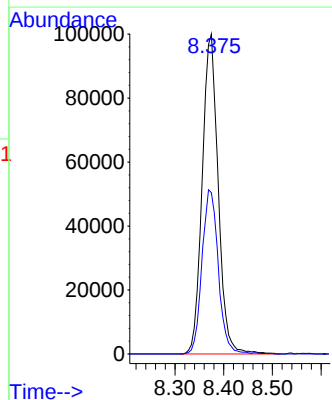
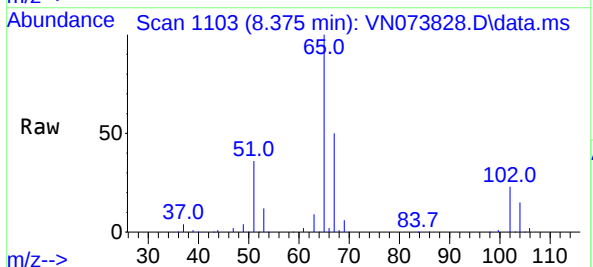
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

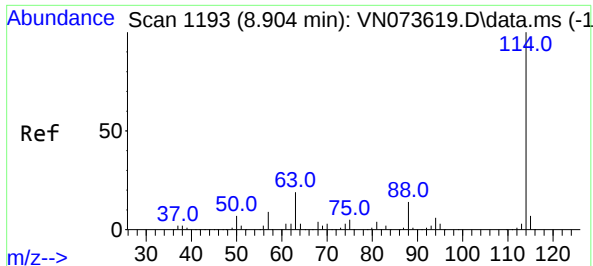
Tgt Ion: 56 Resp: 7113
Ion Ratio Lower Upper
56 100
69 160.5 27.8 41.8#
84 156.7 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 48.738 ug/l
RT: 8.375 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 65 Resp: 227535
Ion Ratio Lower Upper
65 100
67 52.3 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: VN073828.D

Acq: 11 Aug 2022 16:28

Instrument :

MSVOA_N

ClientSampleId :

PB146912ZHE#03

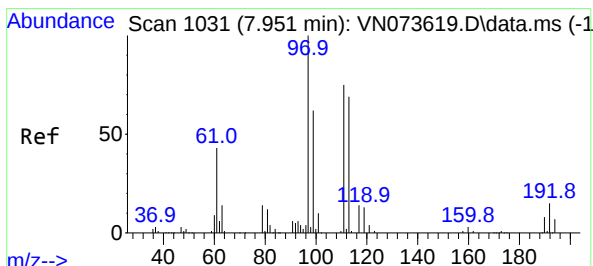
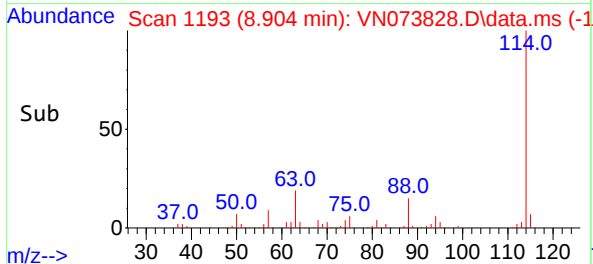
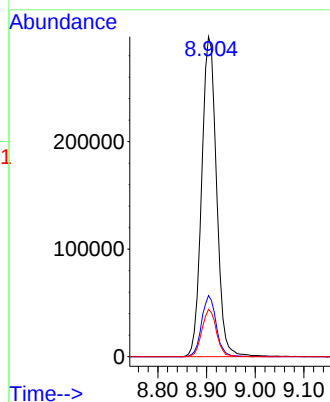
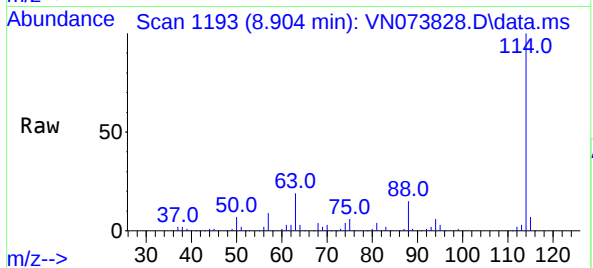
Tgt Ion:114 Resp: 632028

Ion Ratio Lower Upper

114 100

63 19.1 0.0 40.0

88 14.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.277 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN073828.D

Acq: 11 Aug 2022 16:28

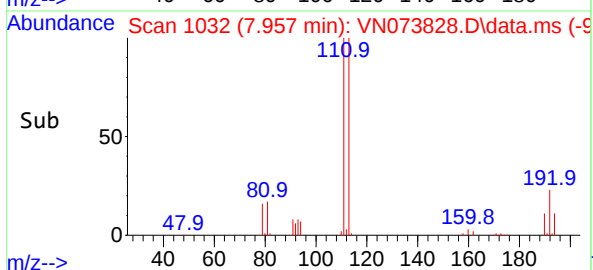
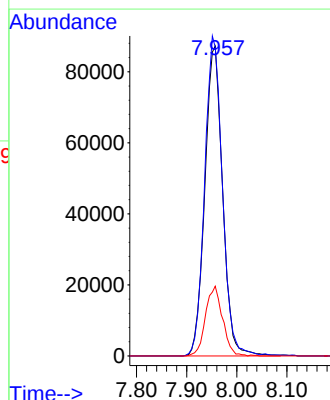
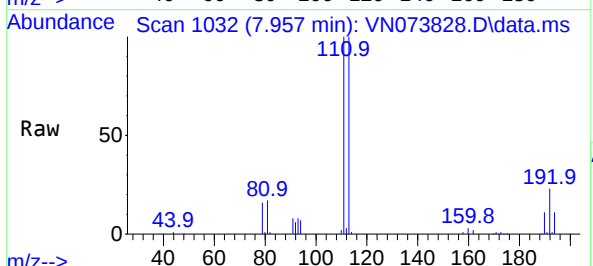
Tgt Ion:113 Resp: 215412

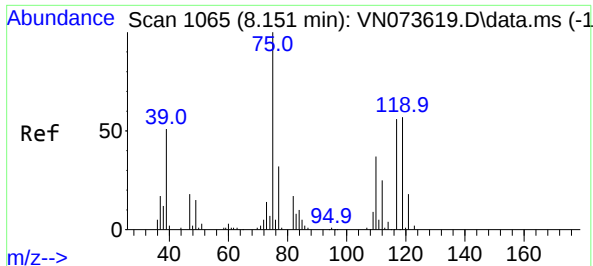
Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

192 21.5 17.0 25.6

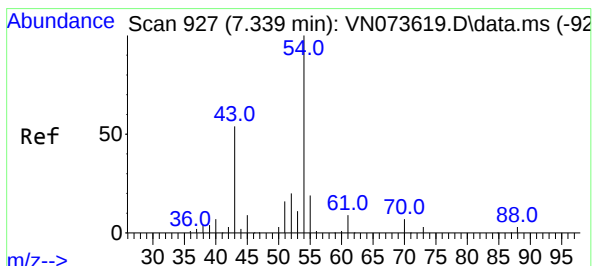
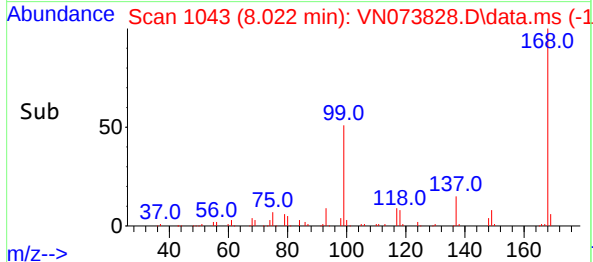
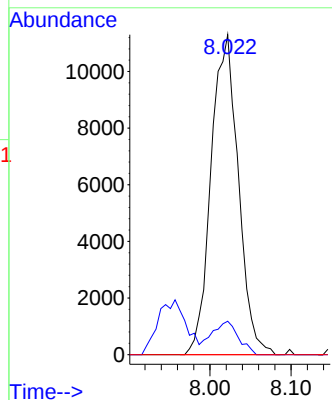
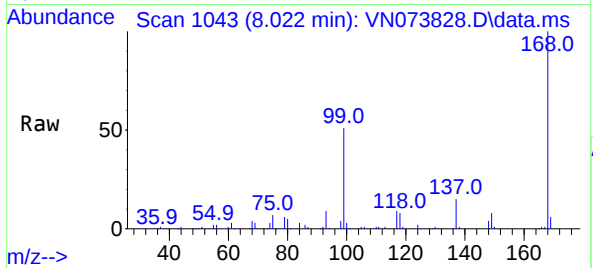




#36
1,1-Dichloropropene
Concen: 4.665 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.129 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

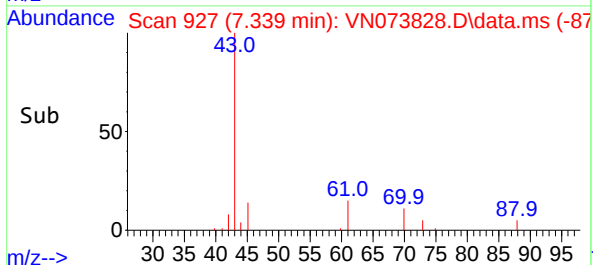
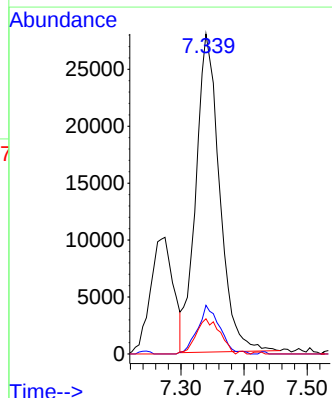
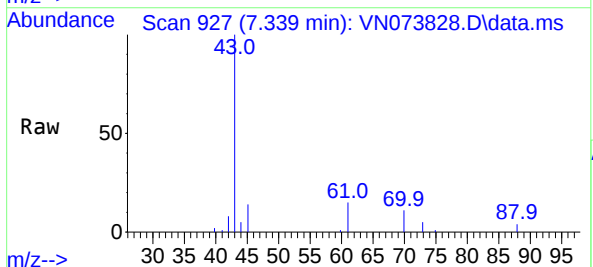
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

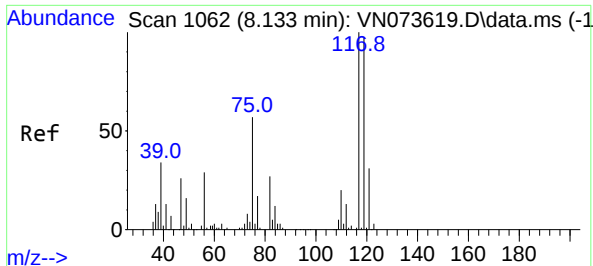
Tgt Ion: 75 Resp: 26386
Ion Ratio Lower Upper
75 100
110 10.4 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 9.812 ug/l
RT: 7.339 min Scan# 927
Delta R.T. 0.000 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

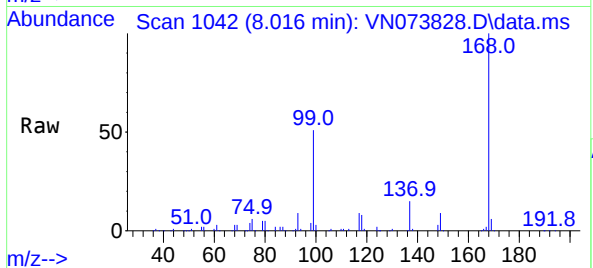
Tgt Ion: 43 Resp: 73089
Ion Ratio Lower Upper
43 100
61 14.3 11.8 17.6
70 11.1 9.3 13.9



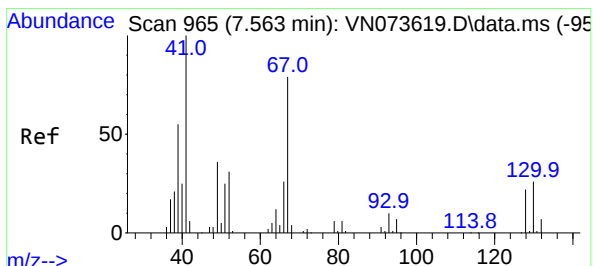
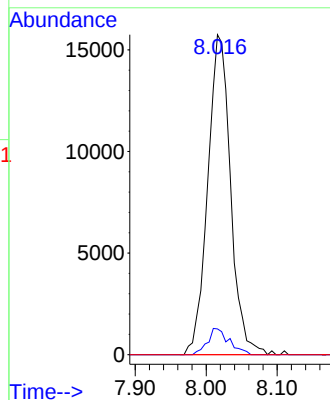
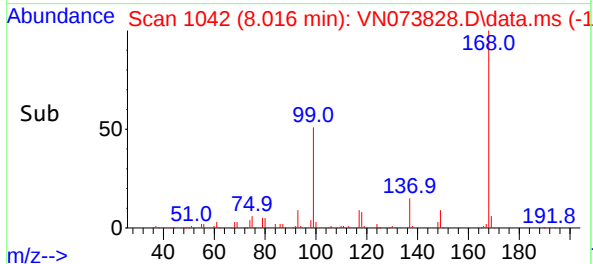


#38
Carbon Tetrachloride
Concen: 6.129 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

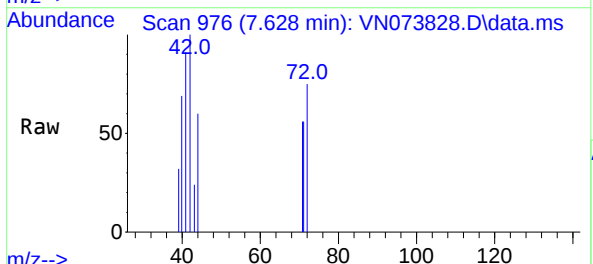
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03



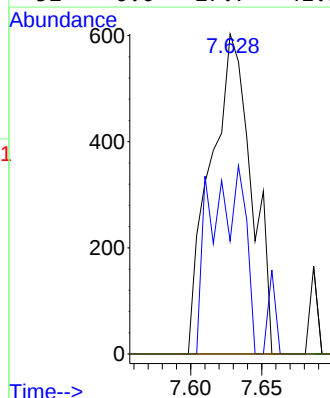
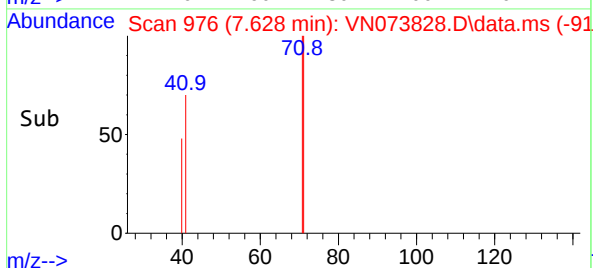
Tgt Ion:117 Resp: 35210
Ion Ratio Lower Upper
117 100
119 8.0 75.8 113.8#
121 0.0 24.6 37.0#

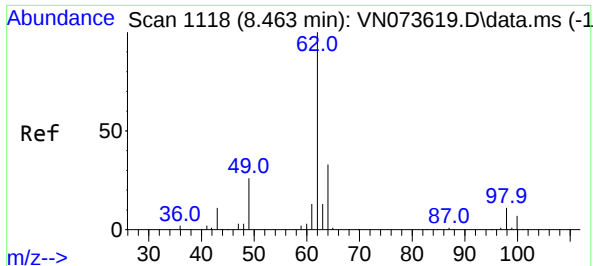


#41
Methacrylonitrile
Concen: 0.359 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.065 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28



Tgt Ion: 41 Resp: 1211
Ion Ratio Lower Upper
41 100
39 49.3 48.6 73.0
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#





#42

1,2-Dichloroethane

Concen: 0.336 ug/l

RT: 8.486 min Scan# 1118

Delta R.T. 0.024 min

Lab File: VN073828.D

Acq: 11 Aug 2022 16:28

Instrument :

MSVOA_N

ClientSampleId :

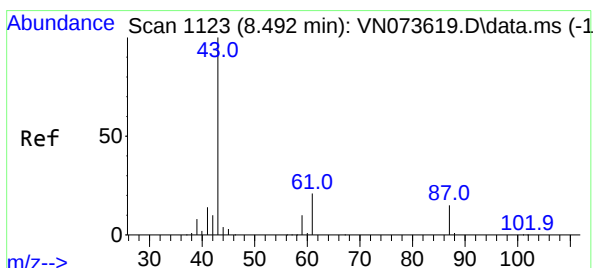
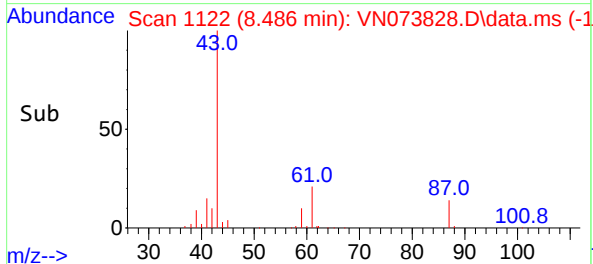
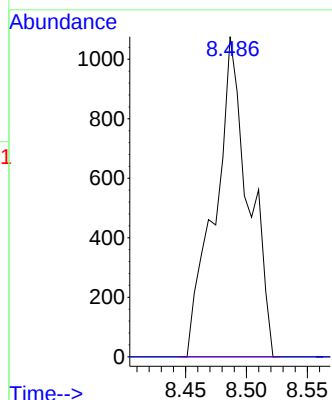
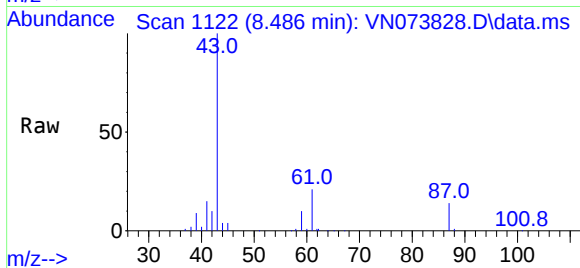
PB146912ZHE#03

Tgt Ion: 62 Resp: 2077

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 27.580 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN073828.D

Acq: 11 Aug 2022 16:28

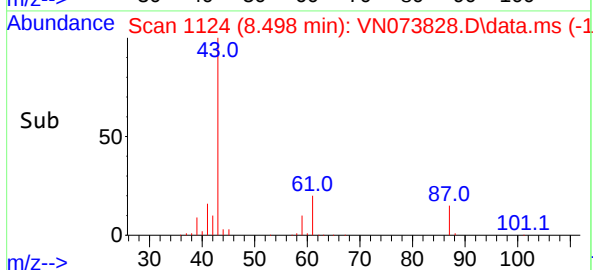
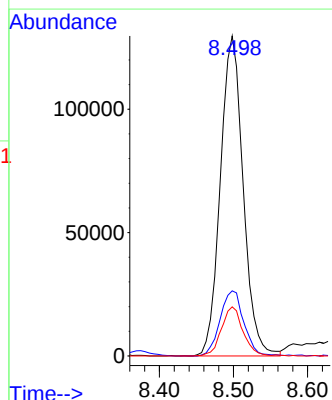
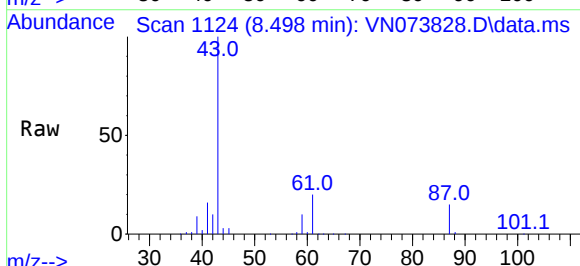
Tgt Ion: 43 Resp: 277498

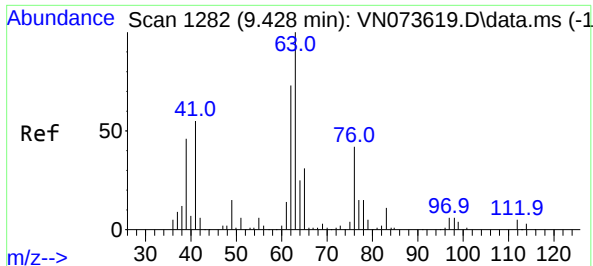
Ion Ratio Lower Upper

43 100

61 21.2 21.9 32.9#

87 14.5 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.913 ug/l

RT: 9.569 min Scan# 11

Delta R.T. 0.141 min

Lab File: VN073828.D

Acq: 11 Aug 2022 16:28

Instrument :

MSVOA_N

ClientSampleId :

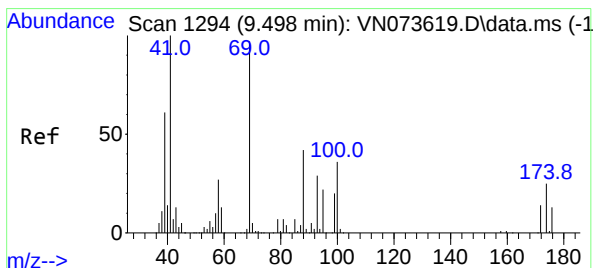
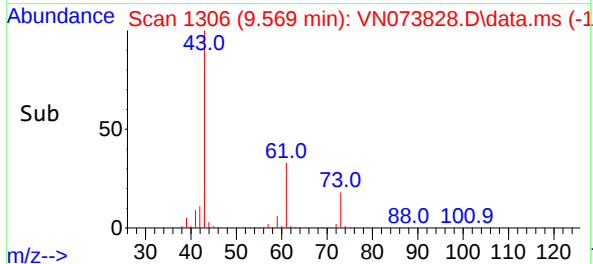
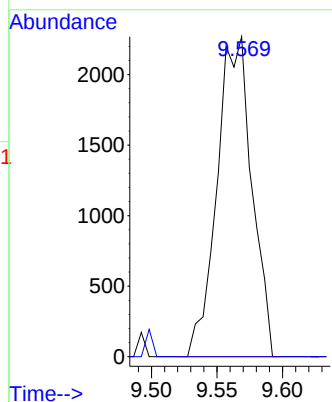
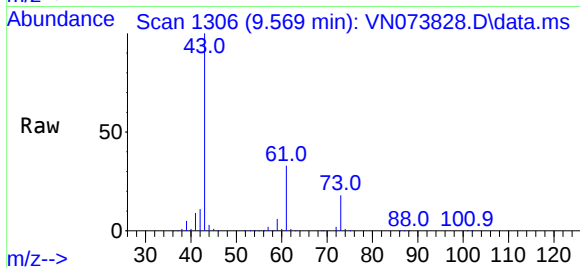
PB146912ZHE#03

Tgt Ion: 63 Resp: 4194

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.318 ug/l

RT: 9.486 min Scan# 1292

Delta R.T. -0.012 min

Lab File: VN073828.D

Acq: 11 Aug 2022 16:28

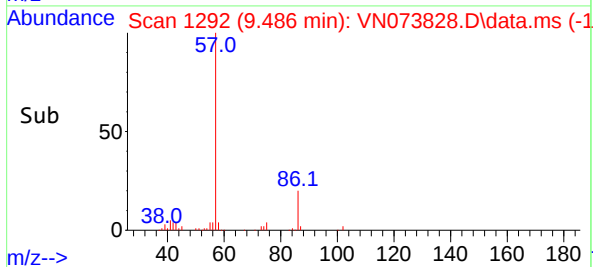
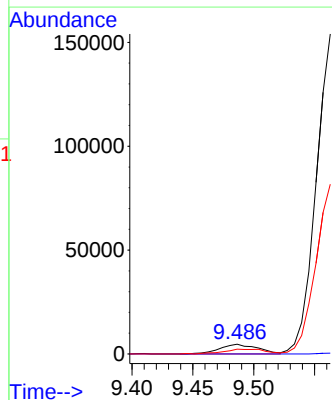
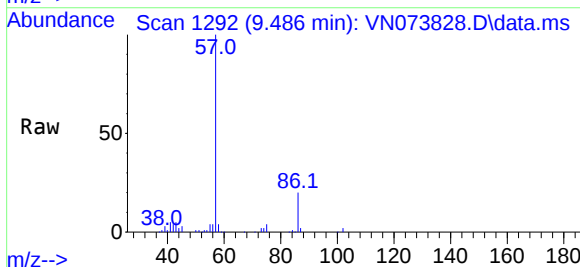
Tgt Ion: 41 Resp: 10207

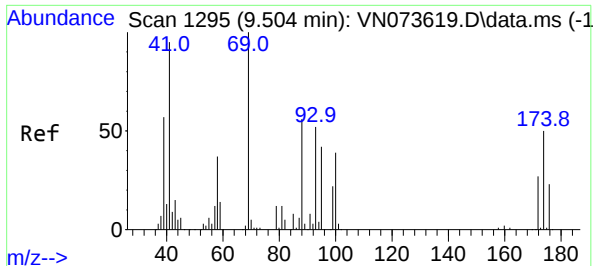
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 54.6 45.6 68.4

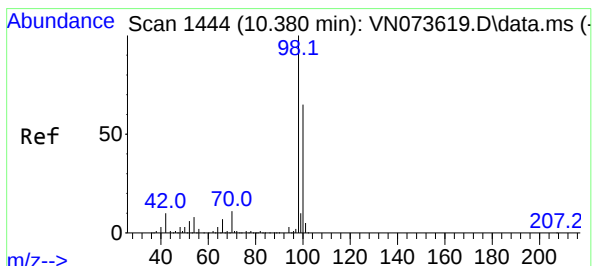
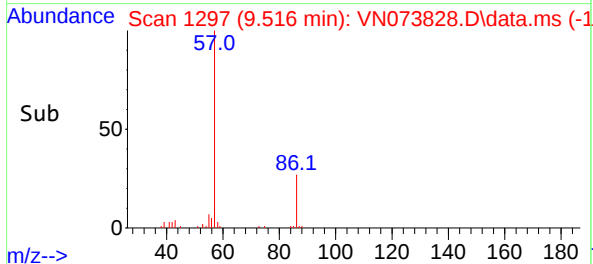
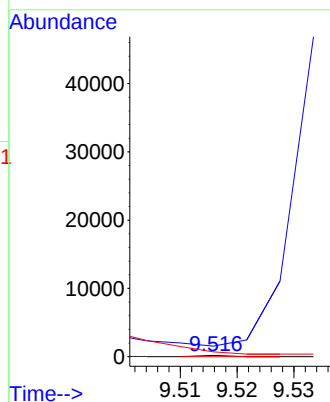
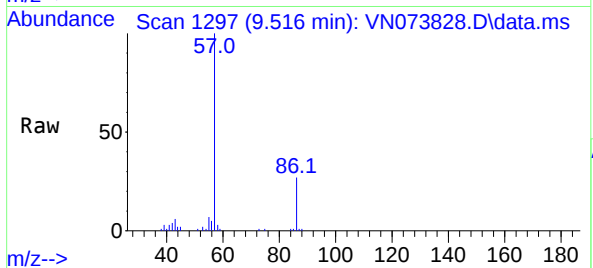




#49
1,4-Dioxane
Concen: 0.516 ug/l
RT: 9.516 min Scan# 1297
Delta R.T. 0.012 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

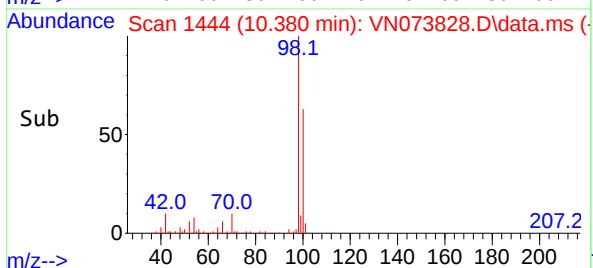
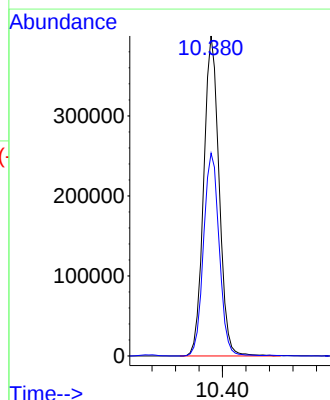
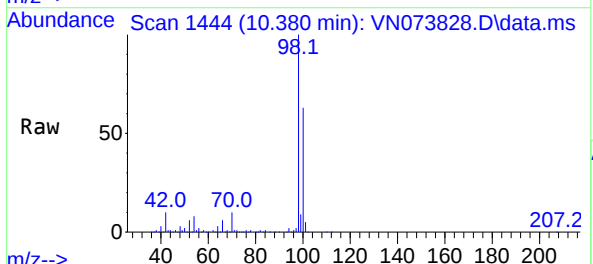
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

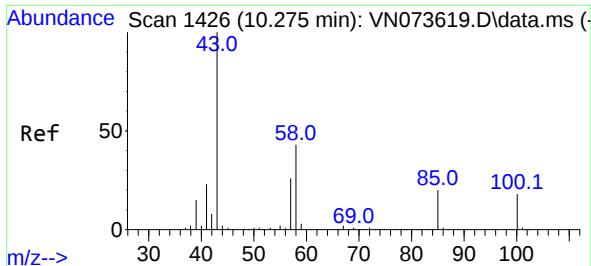
Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.4#
58 0.0 54.2 81.4#



#50
Toluene-d8
Concen: 46.518 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 98 Resp: 726495
Ion Ratio Lower Upper
98 100
100 64.4 52.6 78.8

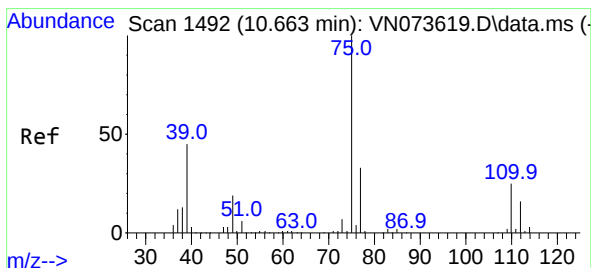
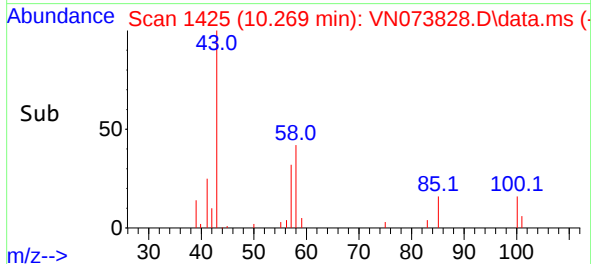
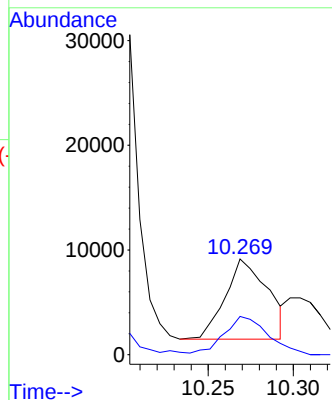
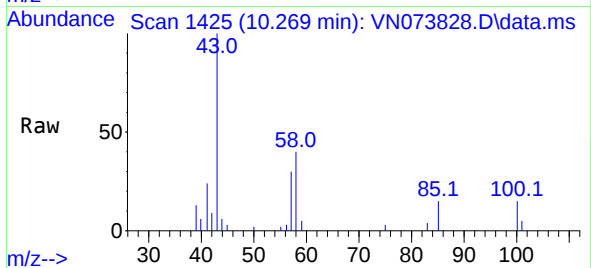




#51
4-Methyl-2-Pentanone
Concen: 1.833 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.006 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

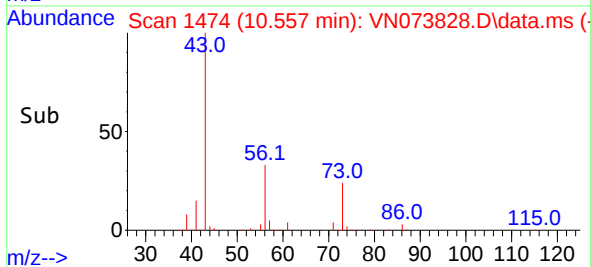
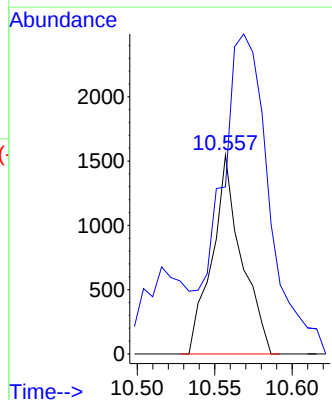
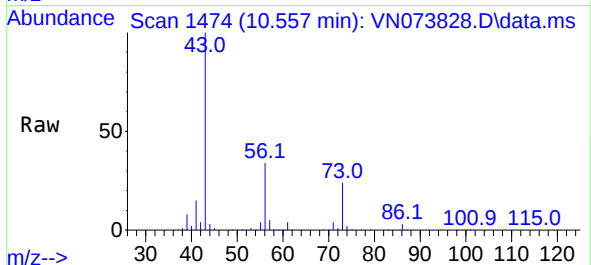
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

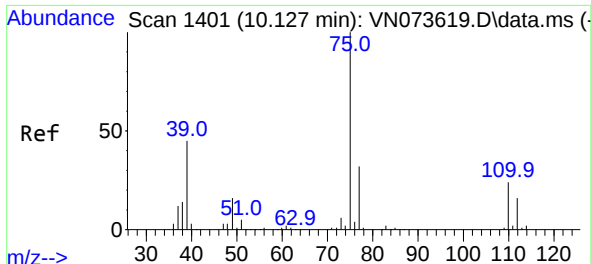
Tgt Ion: 43 Resp: 13228
Ion Ratio Lower Upper
43 100
58 49.6 34.1 51.1



#53
t-1,3-Dichloropropene
Concen: 0.338 ug/l
RT: 10.557 min Scan# 1474
Delta R.T. -0.106 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 75 Resp: 2040
Ion Ratio Lower Upper
75 100
77 49.3 25.6 38.4#

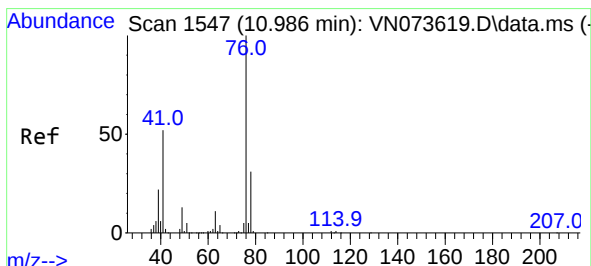
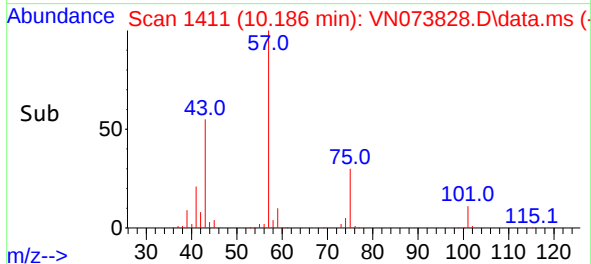
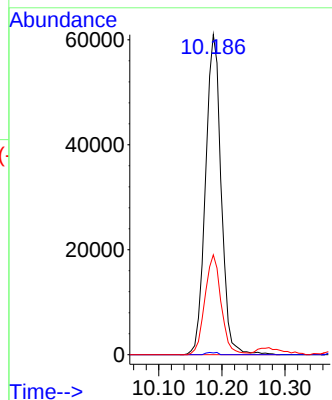
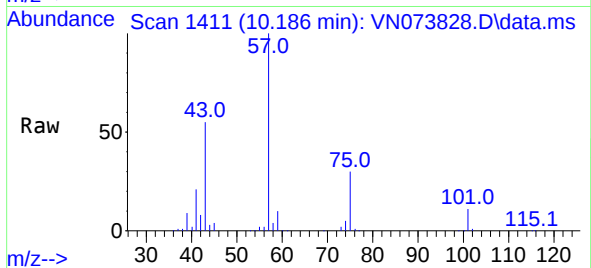




#54
 cis-1,3-Dichloropropene
 Concen: 15.445 ug/l
 RT: 10.186 min Scan# 14
 Delta R.T. 0.059 min
 Lab File: VN073828.D
 Acq: 11 Aug 2022 16:28

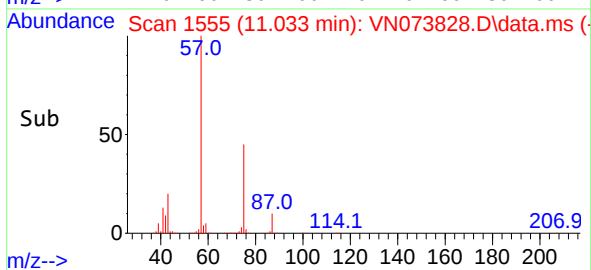
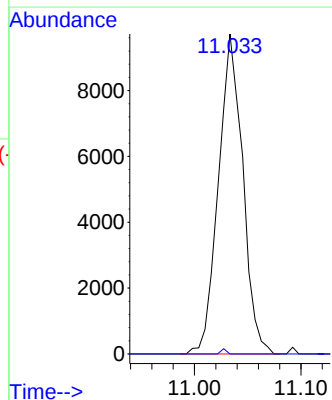
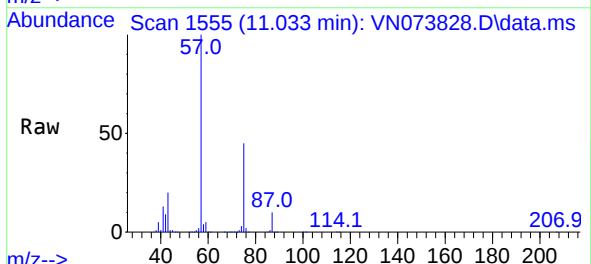
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146912ZHE#03

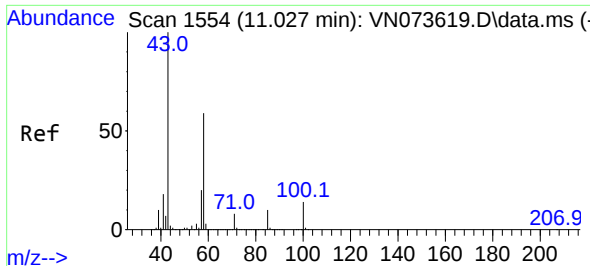
Tgt Ion: 75 Resp: 105153
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 31.2 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 1.938 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN073828.D
 Acq: 11 Aug 2022 16:28

Tgt Ion: 76 Resp: 15385
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.2 39.2#

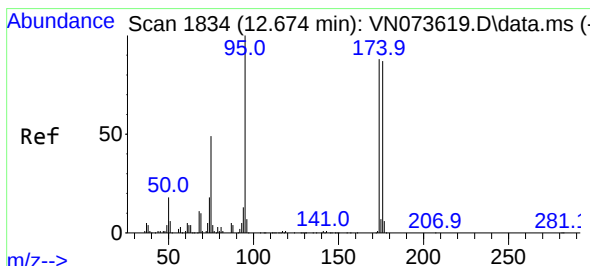
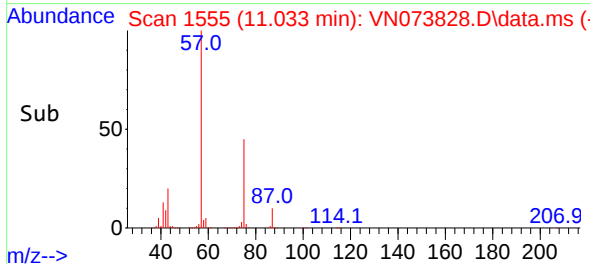
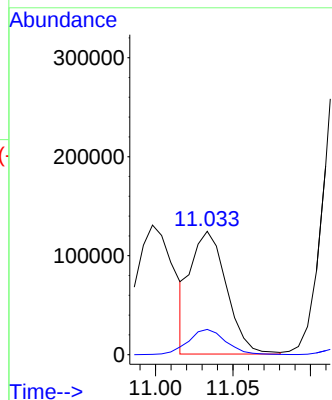
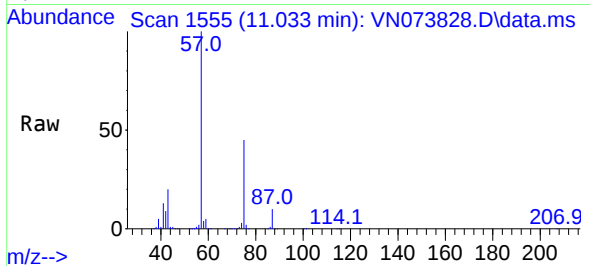




#59
2-Hexanone
Concen: 36.287 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

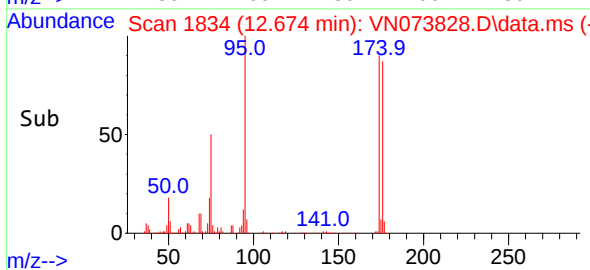
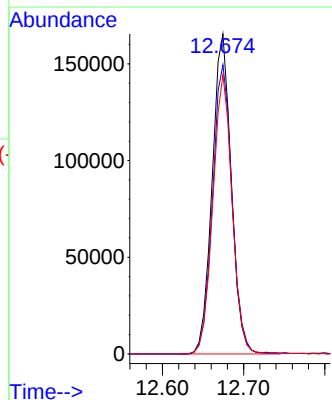
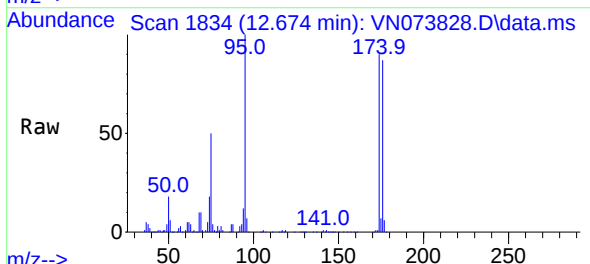
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

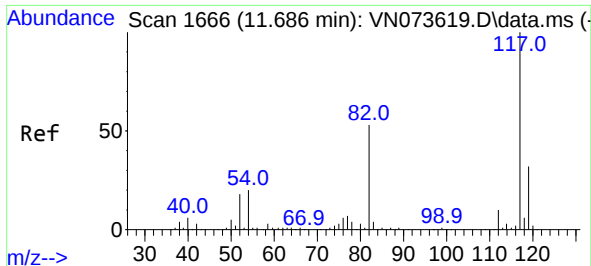
Tgt Ion: 43 Resp: 198400
Ion Ratio Lower Upper
43 100
58 22.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 49.326 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 95 Resp: 270213
Ion Ratio Lower Upper
95 100
174 92.3 0.0 167.6
176 87.8 0.0 163.4

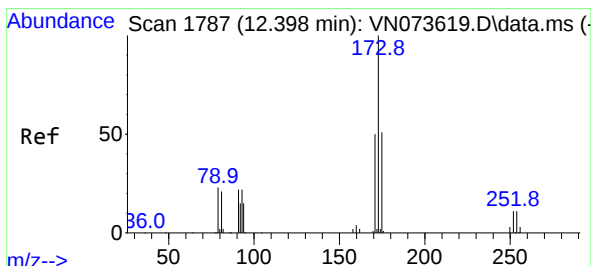
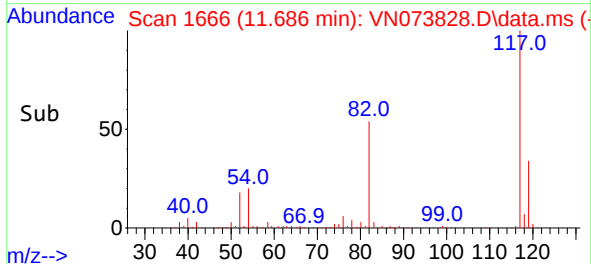
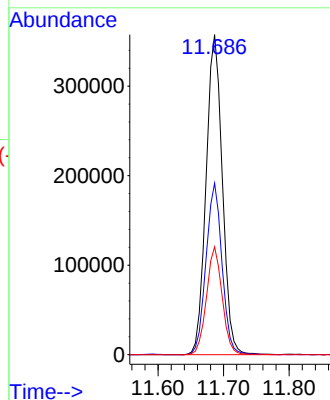
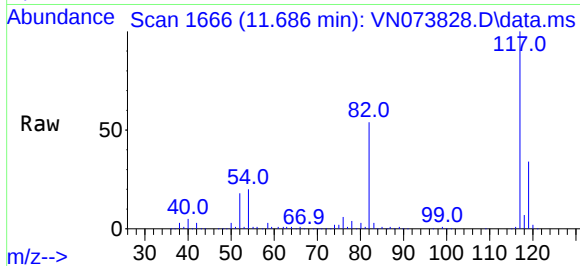




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

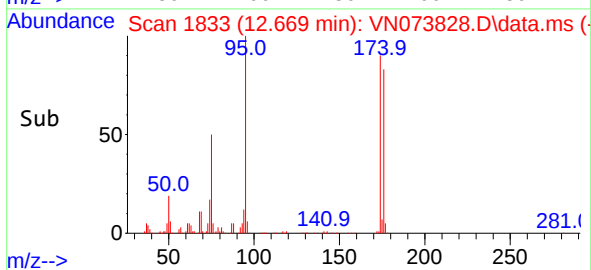
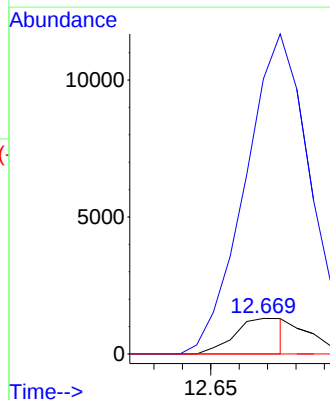
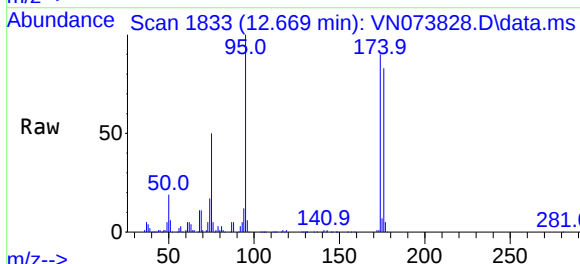
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

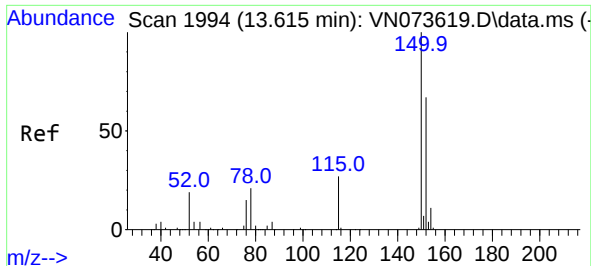
Tgt Ion:117 Resp: 618121
Ion Ratio Lower Upper
117 100
82 53.6 44.2 66.2
119 33.7 25.4 38.0



#71
Bromoform
Concen: 0.409 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

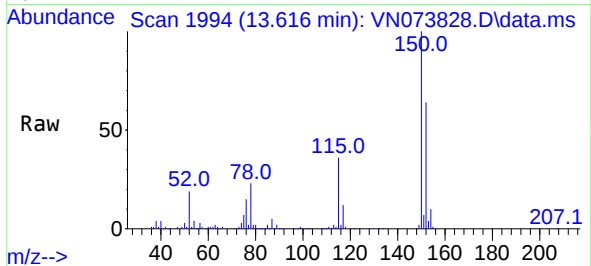
Tgt Ion:173 Resp: 1591
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#



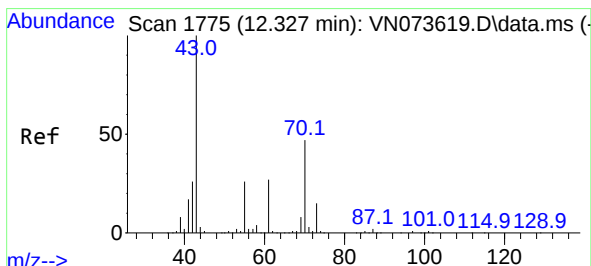
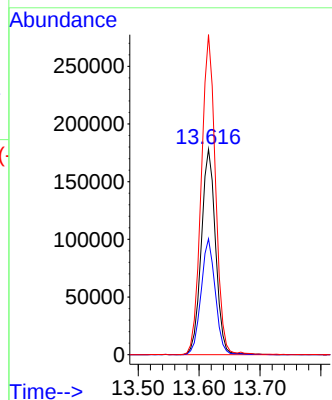
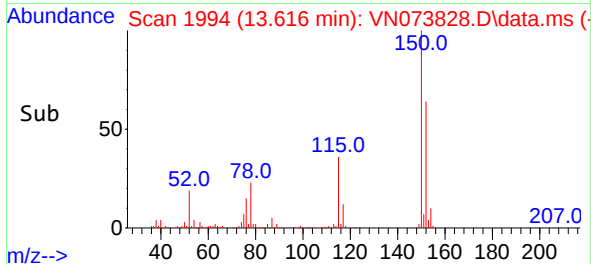


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

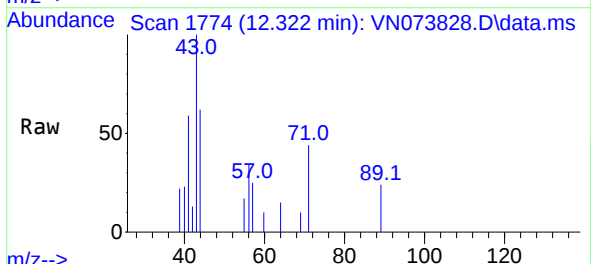
Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03



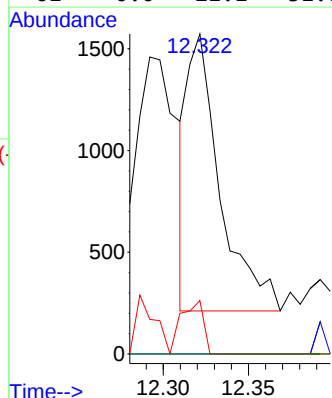
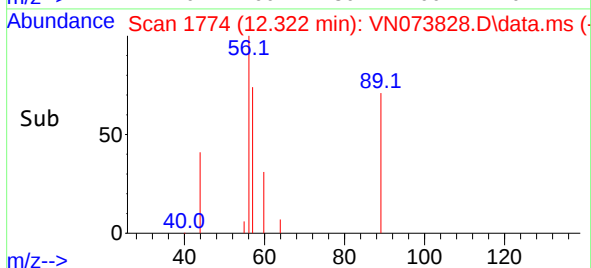
Tgt Ion:152 Resp: 290364
Ion Ratio Lower Upper
152 100
115 56.2 28.9 86.7
150 155.8 0.0 356.2

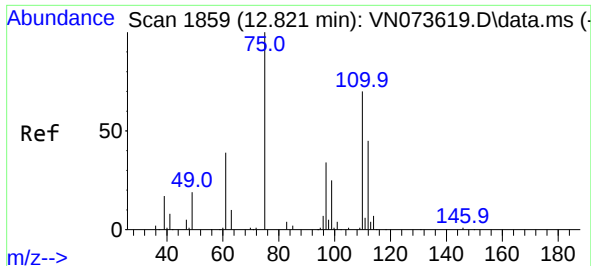


#74
N-ethyl acetate
Concen: 0.227 ug/l
RT: 12.322 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28



Tgt Ion: 43 Resp: 1822
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 13.1 21.1 31.7#
61 0.0 21.1 31.7#

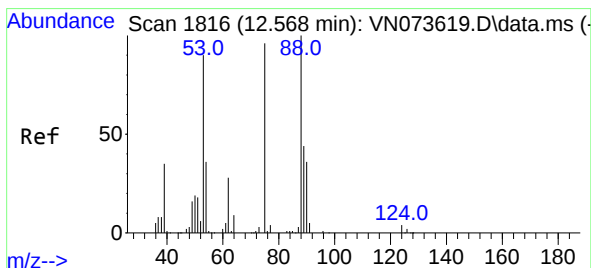
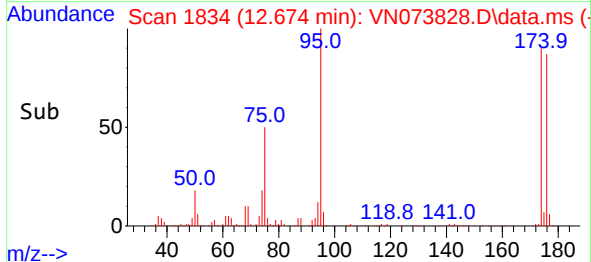
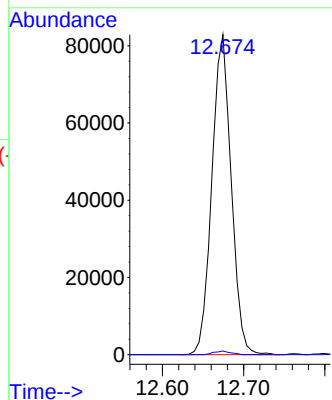
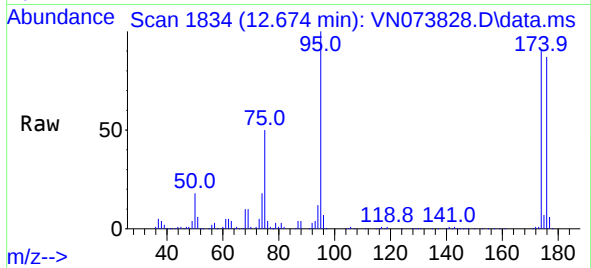




#76
1,2,3-Trichloropropane
Concen: 24.080 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Instrument :
MSVOA_N
ClientSampleId :
PB146912ZHE#03

Tgt Ion: 75 Resp: 136978
Ion Ratio Lower Upper
75 100
77 1.0 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.135 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN073828.D
Acq: 11 Aug 2022 16:28

Tgt Ion: 75 Resp: 136978
Ion Ratio Lower Upper
75 100
53 0.2 78.0 117.0#
89 0.0 37.2 55.8#

