

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072922\
 Data File : VN073641.D
 Acq On : 29 Jul 2022 17:48
 Operator : JC\MD
 Sample : PB146545ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#02

Quant Time: Aug 01 04:07:19 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)

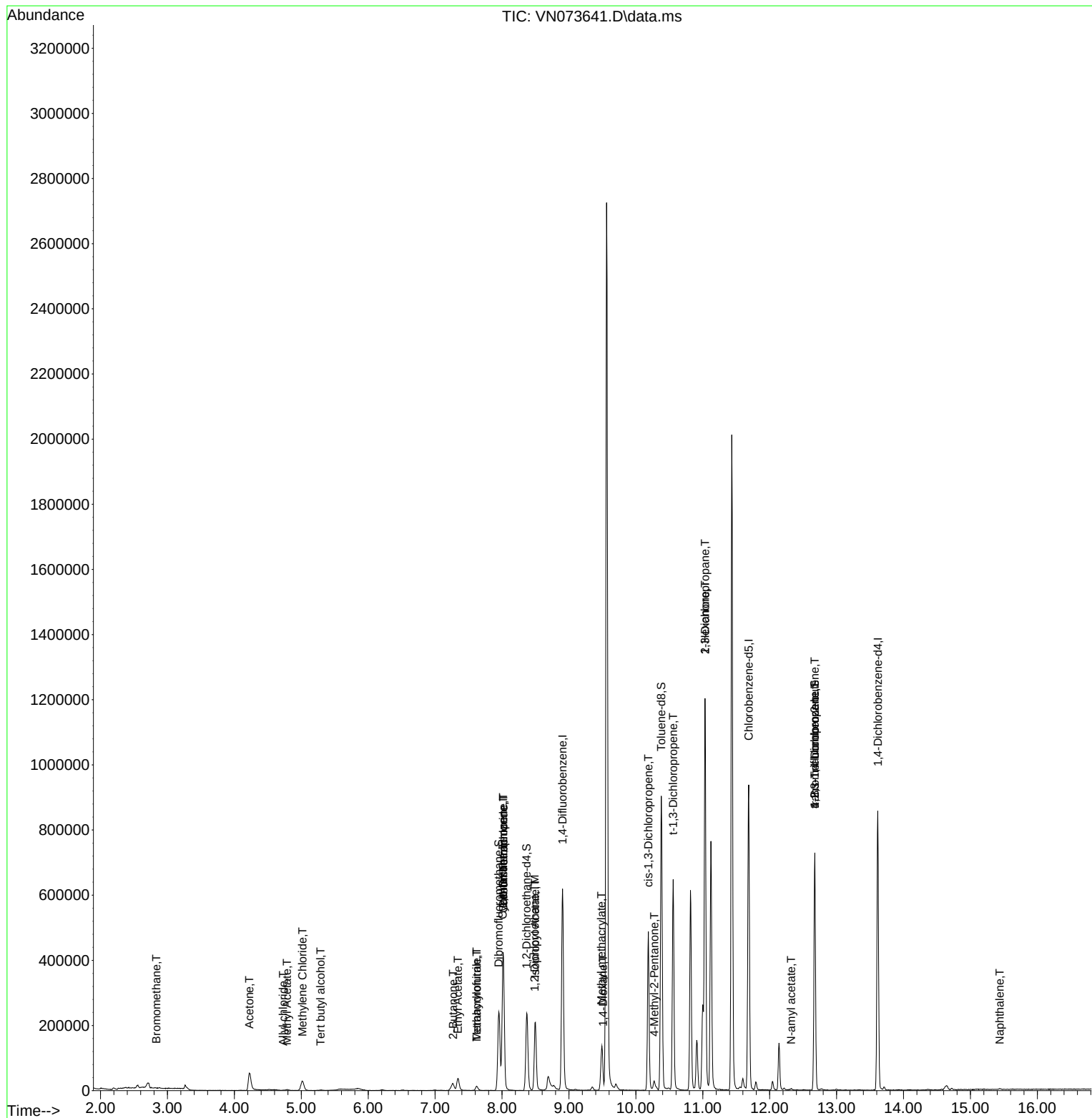
Internal Standards						
1) Pentafluorobenzene	8.016	168	345883	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	560729	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	559615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	239803	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	196704	46.666	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.340%		
35) Dibromofluoromethane	7.951	113	180629	51.300	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.600%		
50) Toluene-d8	10.381	98	631732	45.594	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.180%		
62) 4-Bromofluorobenzene	12.675	95	230260	49.783	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.560%		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	836	Below Cal		97
5) Bromomethane	2.834	94	1360	0.400 ug/l #		80
6) Chloroethane	2.916	64	203	Below Cal #		42
11) Tert butyl alcohol	5.287	59	3099	3.409 ug/l #		72
14) Allyl chloride	4.728	41	1990	0.379 ug/l #		30
16) Acetone	4.222	43	98829	43.653 ug/l		97
18) Methyl Acetate	4.787	43	5449	0.967 ug/l		98
20) Methylene Chloride	5.016	84	25144	4.876 ug/l		91
25) 2-Butanone	7.269	43	30825	8.767 ug/l		98
29) Tetrahydrofuran	7.622	42	10102	4.544 ug/l		95
31) Cyclohexane	8.010	56	6905	1.100 ug/l #		33
36) 1,1-Dichloropropene	8.016	75	25493	5.080 ug/l #		48
37) Ethyl Acetate	7.340	43	59848	9.056 ug/l		99
38) Carbon Tetrachloride	8.022	117	32633	6.403 ug/l #		17
41) Methacrylonitrile	7.622	41	5780	1.933 ug/l #		38
42) 1,2-Dichloroethane	8.487	62	1610	0.293 ug/l #		74
43) Isopropyl Acetate	8.492	43	236614	26.507 ug/l #		92
48) Methyl methacrylate	9.486	41	8498	2.175 ug/l #		39
49) 1,4-Dioxane	9.510	88	314	2.851 ug/l #		1
51) 4-Methyl-2-Pentanone	10.275	43	25848	4.037 ug/l #		82
53) t-1,3-Dichloropropene	10.557	75	1736	0.324 ug/l #		1
54) cis-1,3-Dichloropropene	10.186	75	87171	14.432 ug/l #		65
57) 1,3-Dichloropropane	11.033	76	12764	1.812 ug/l #		42
59) 2-Hexanone	11.033	43	164656	33.944 ug/l #		49
74) N-amyl acetate	12.322	43	1348	0.203 ug/l #		42
76) 1,2,3-Trichloropropane	12.675	75	120282	25.821 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.675	75	120282	65.002 ug/l #		10
95) Naphthalene	15.439	128	2865	0.210 ug/l #		91

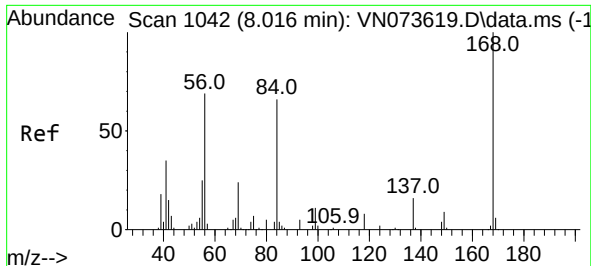
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

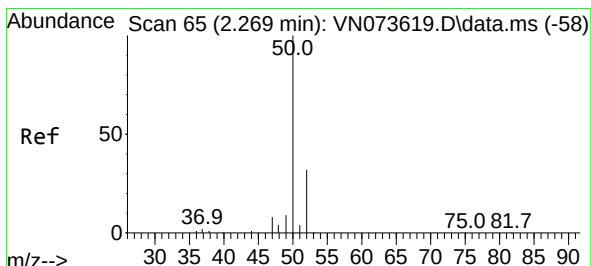
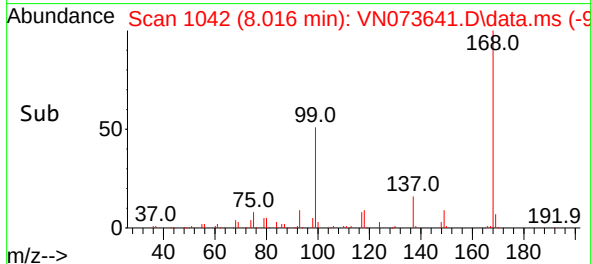
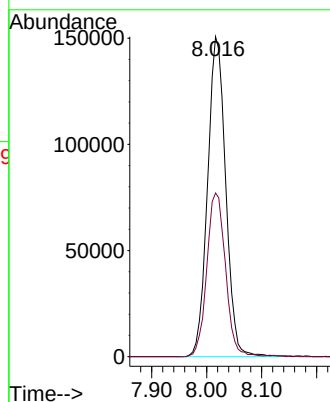
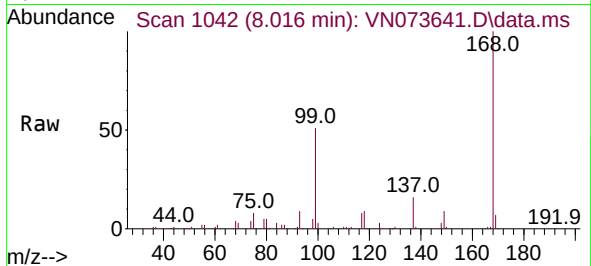




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

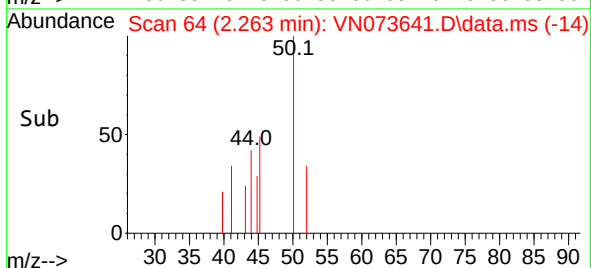
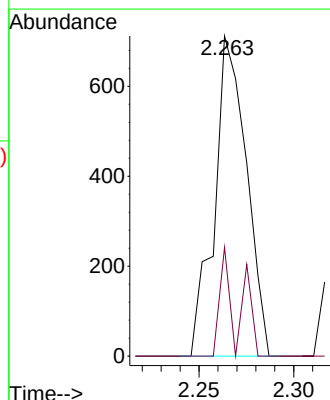
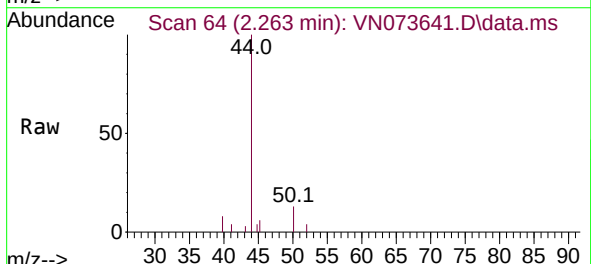
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

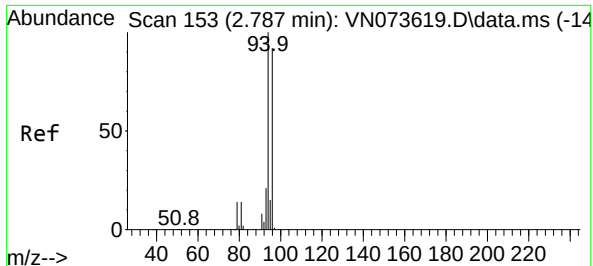
Tgt Ion:168 Resp: 345883
Ion Ratio Lower Upper
168 100
99 51.2 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion: 50 Resp: 836
Ion Ratio Lower Upper
50 100
52 34.0 25.7 38.5

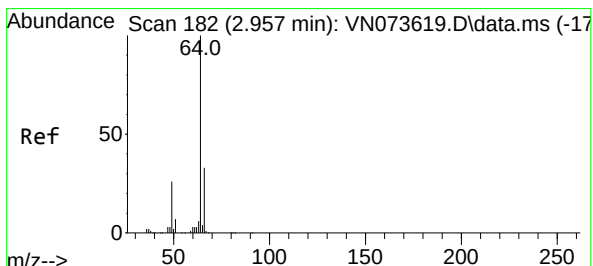
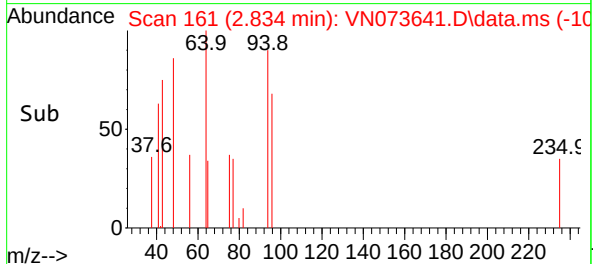
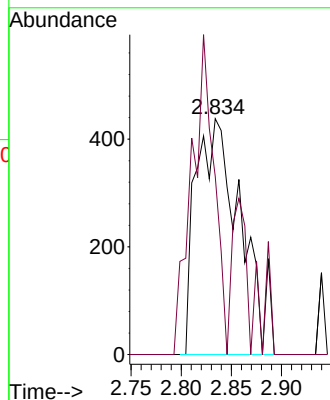
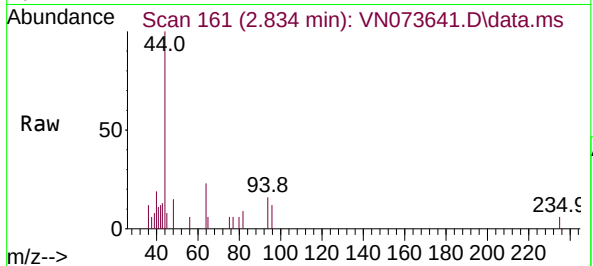




#5
Bromomethane
Concen: 0.400 ug/l
RT: 2.834 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

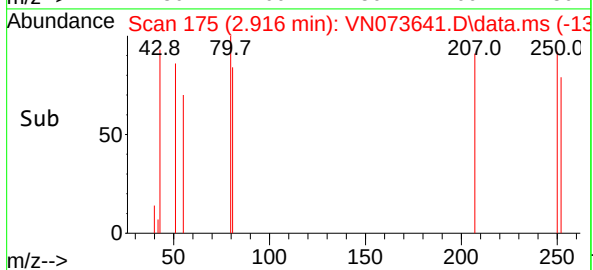
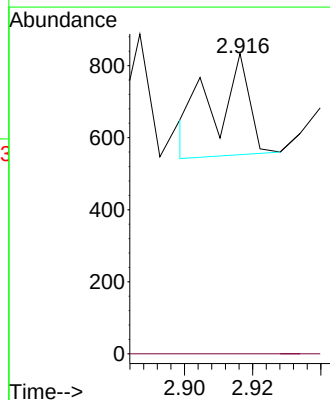
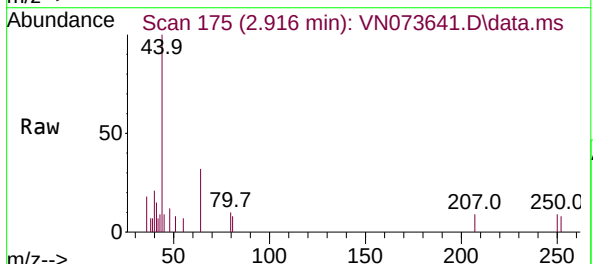
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

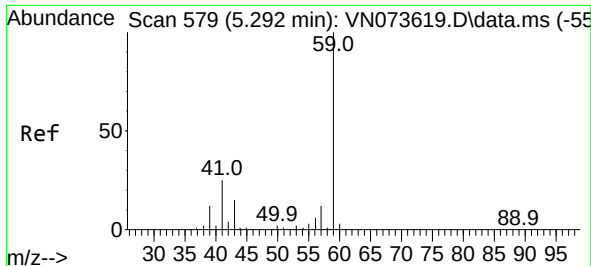
Tgt Ion: 94 Resp: 1360
Ion Ratio Lower Upper
94 100
96 75.6 76.0 114.0#



#6
Chloroethane
Concen: Below Cal
RT: 2.916 min Scan# 175
Delta R.T. -0.041 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion: 64 Resp: 203
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#

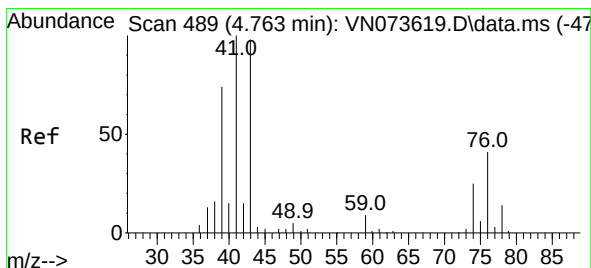
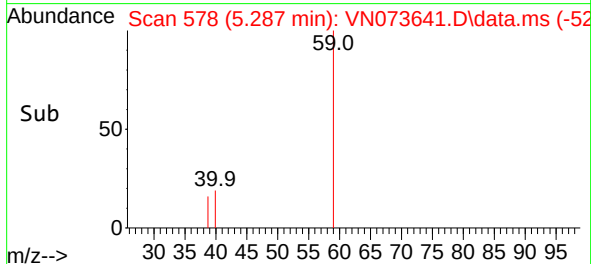
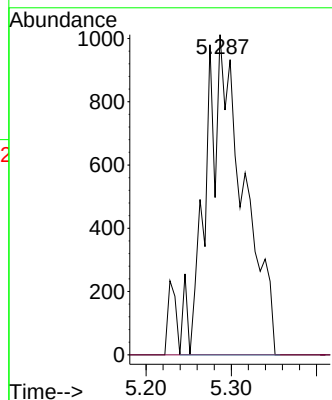
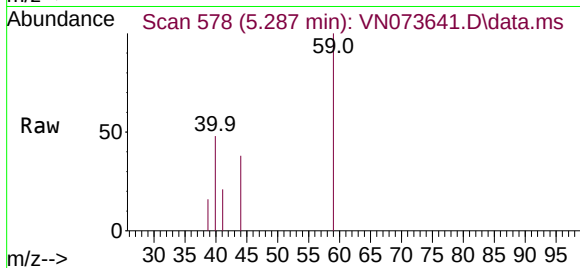




#11
Tert butyl alcohol
Concen: 3.409 ug/l
RT: 5.287 min Scan# 51
Delta R.T. -0.005 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

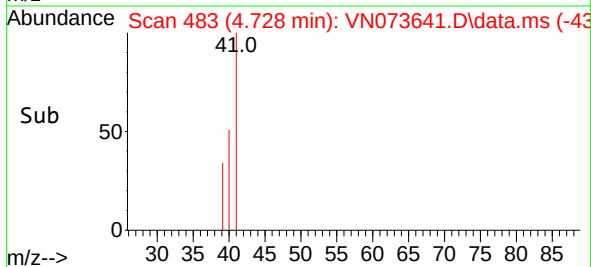
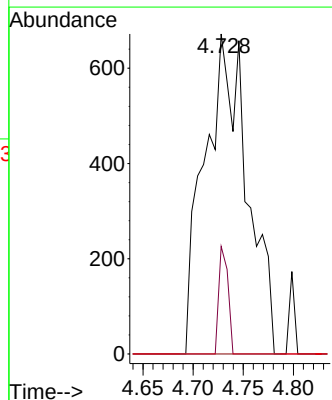
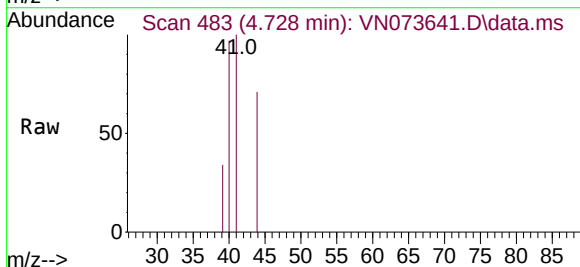
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

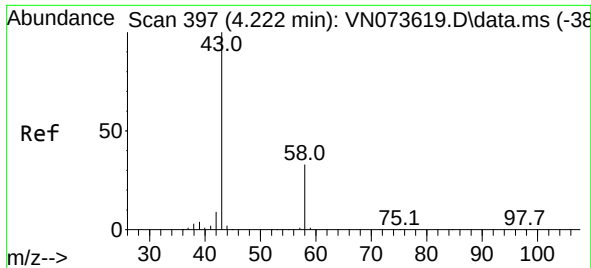
Tgt Ion: 59 Resp: 3099
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#14
Allyl chloride
Concen: 0.379 ug/l
RT: 4.728 min Scan# 483
Delta R.T. -0.035 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion: 41 Resp: 1990
Ion Ratio Lower Upper
41 100
39 7.2 53.2 79.8#
76 0.0 29.9 44.9#





#16

Acetone

Concen: 43.653 ug/l

RT: 4.222 min Scan# 397

Delta R.T. 0.000 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

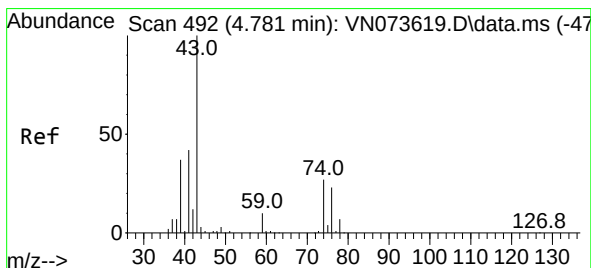
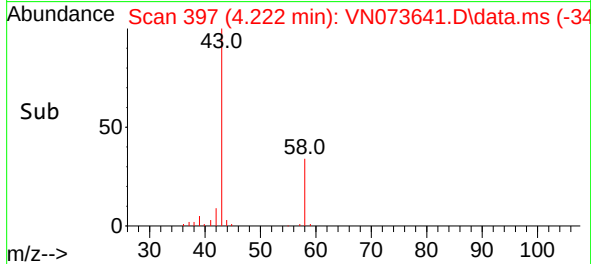
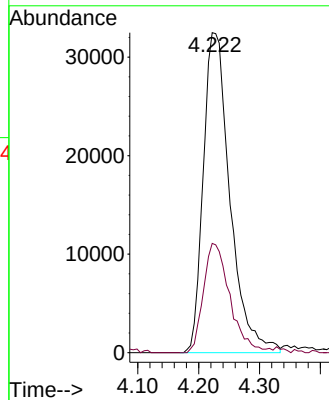
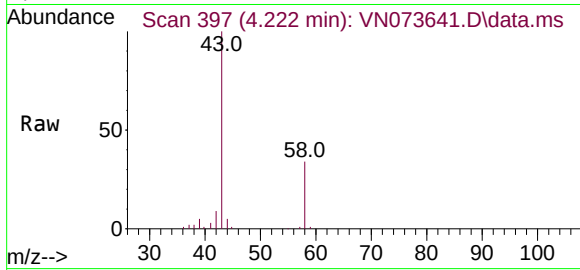
PB146545ZHE#02

Tgt Ion: 43 Resp: 98829

Ion Ratio Lower Upper

43 100

58 34.2 26.0 39.0



#18

Methyl Acetate

Concen: 0.967 ug/l

RT: 4.787 min Scan# 493

Delta R.T. 0.006 min

Lab File: VN073641.D

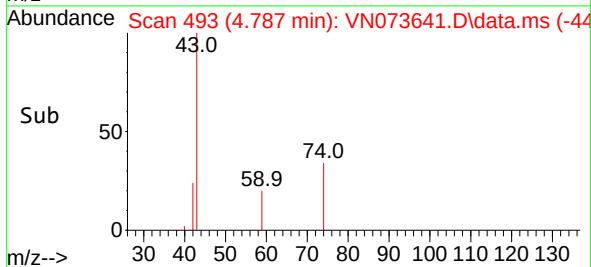
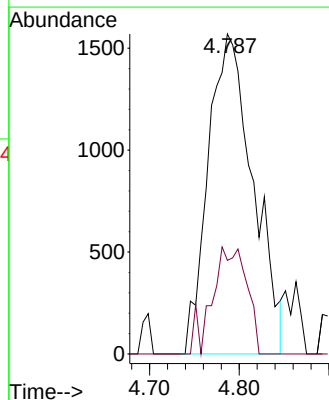
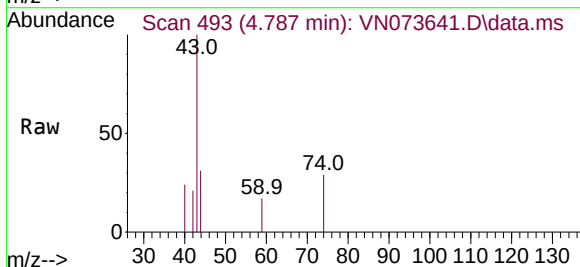
Acq: 29 Jul 2022 17:48

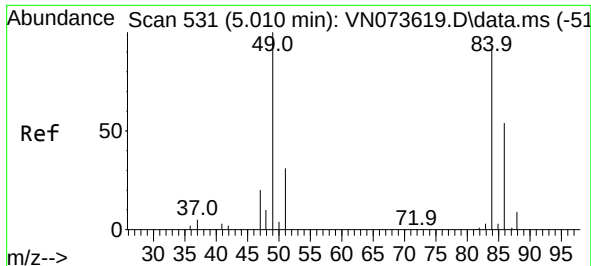
Tgt Ion: 43 Resp: 5449

Ion Ratio Lower Upper

43 100

74 25.8 21.6 32.4

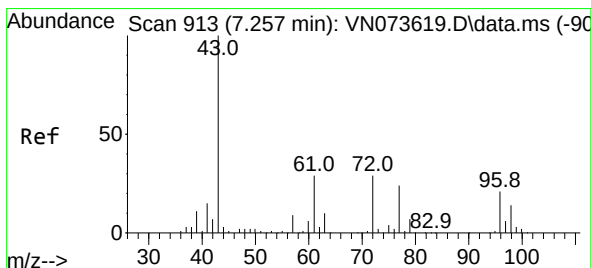
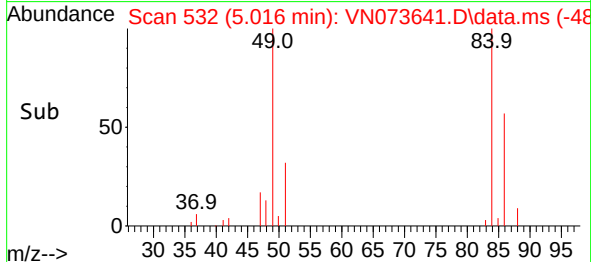
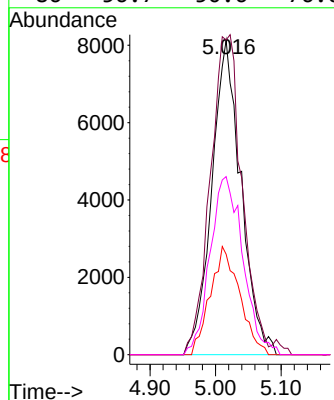
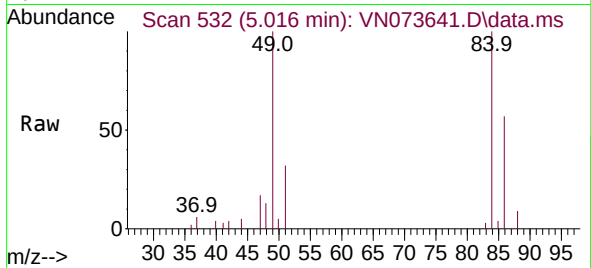




#20
Methylene Chloride
Concen: 4.876 ug/l
RT: 5.016 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

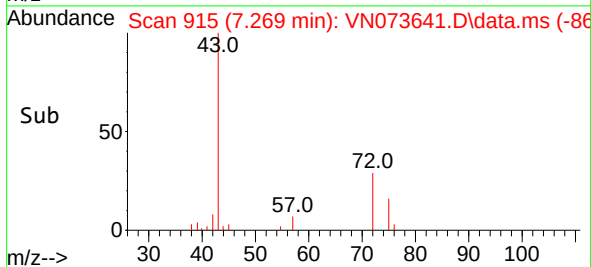
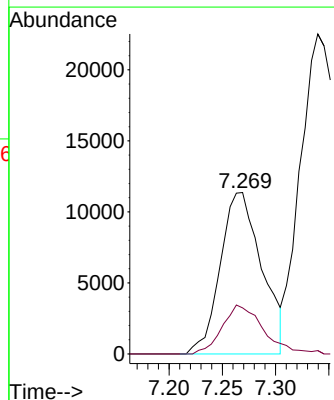
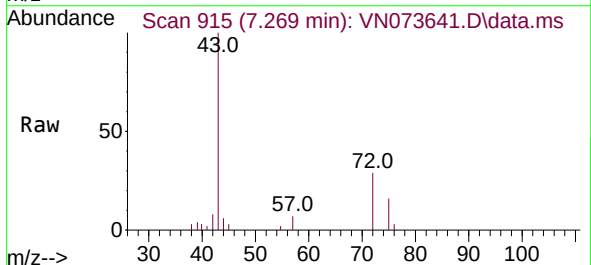
Instrument :
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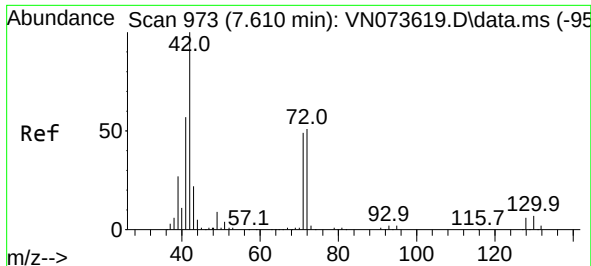
Tgt Ion: 84	Resp: 25144
Ion Ratio	Lower Upper
84 100	
49 100.1	88.3 132.5
51 31.9	28.2 42.2
86 56.7	50.6 76.0



#25
2-Butanone
Concen: 8.767 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion: 43	Resp: 30825
Ion Ratio	Lower Upper
43 100	
72 28.5	23.7 35.5





#29

Tetrahydrofuran

Concen: 4.544 ug/l

RT: 7.622 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB146545ZHE#02

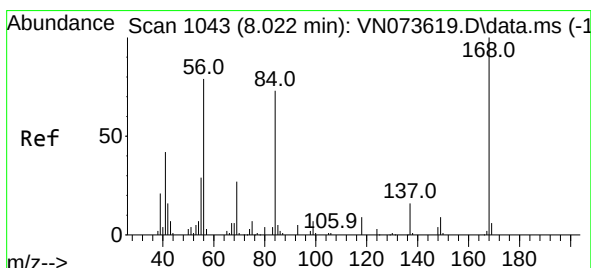
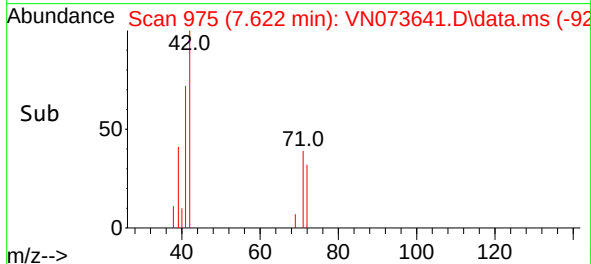
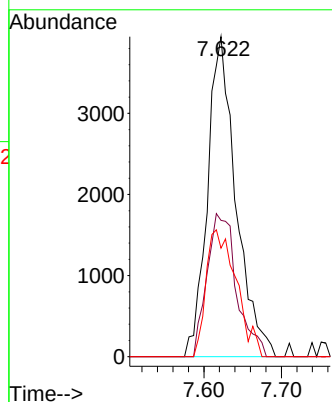
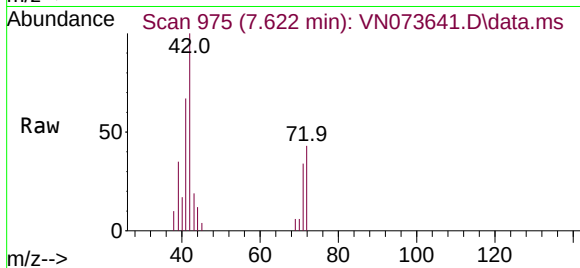
Tgt Ion: 42 Resp: 10102

Ion Ratio Lower Upper

42 100

72 46.2 39.7 59.5

71 41.9 36.6 55.0



#31

Cyclohexane

Concen: 1.100 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.012 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

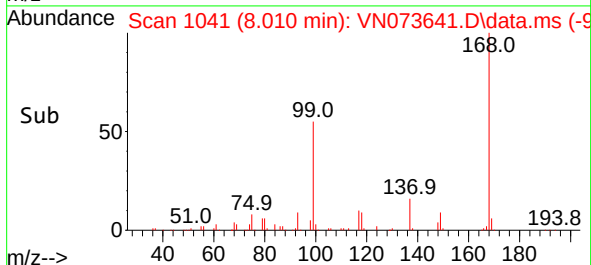
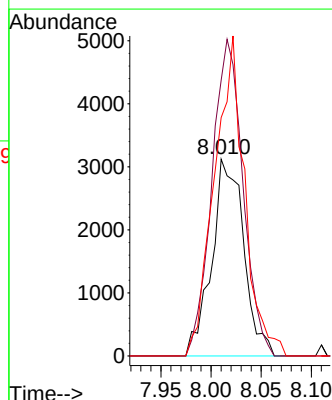
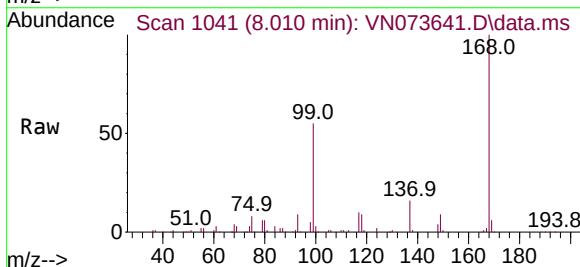
Tgt Ion: 56 Resp: 6905

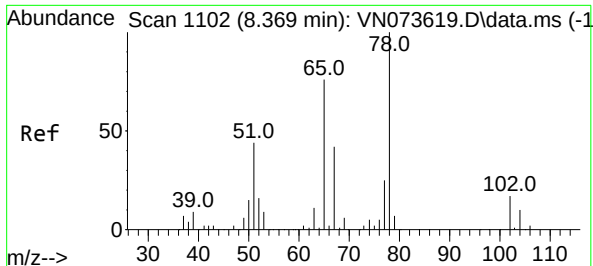
Ion Ratio Lower Upper

56 100

69 140.1 27.8 41.8#

84 121.1 76.9 115.3#

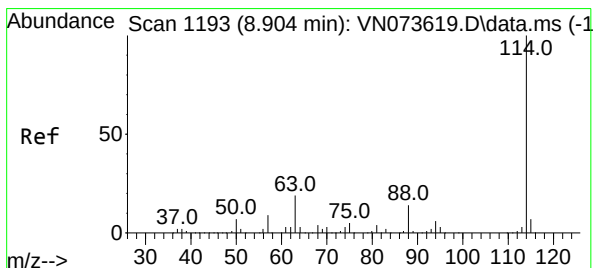
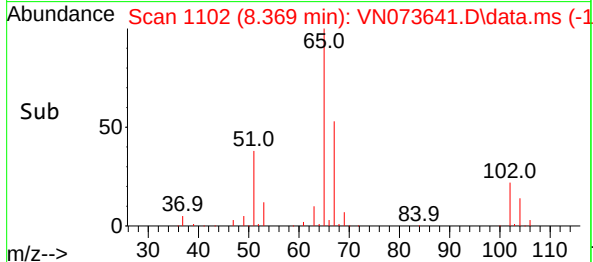
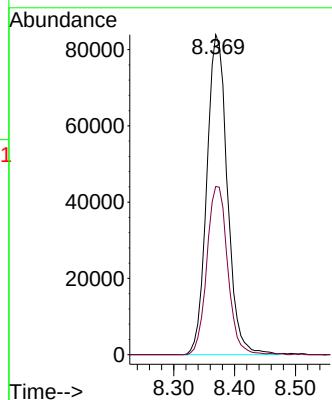
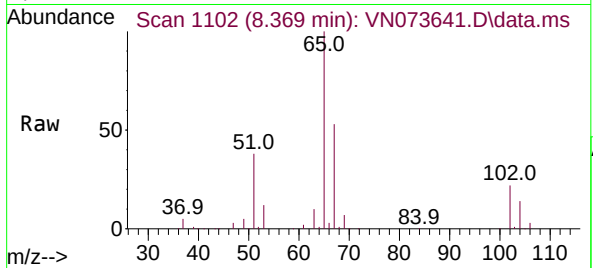




#33
 1,2-Dichloroethane-d4
 Concen: 46.666 ug/l
 RT: 8.369 min Scan# 1102
 Delta R.T. 0.000 min
 Lab File: VN073641.D
 Acq: 29 Jul 2022 17:48

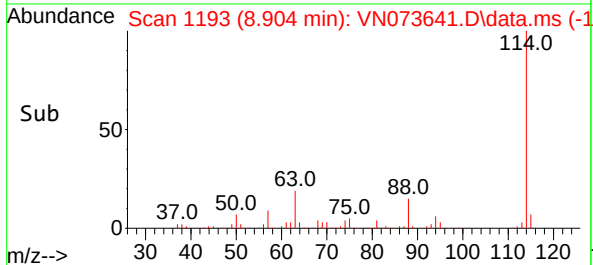
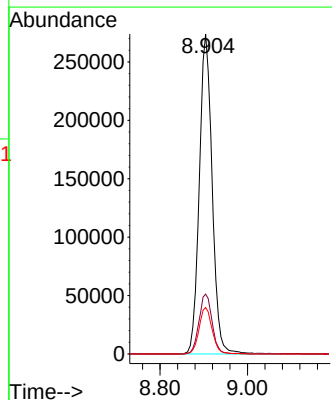
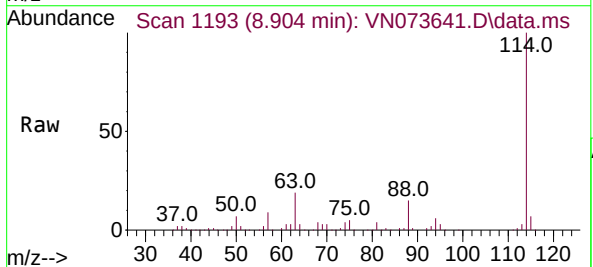
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#02

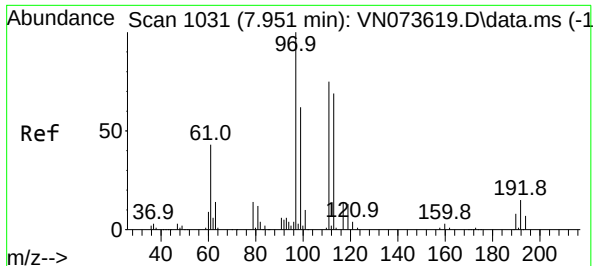
Tgt Ion: 65 Resp: 196704
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.904 min Scan# 1193
 Delta R.T. 0.000 min
 Lab File: VN073641.D
 Acq: 29 Jul 2022 17:48

Tgt Ion: 114 Resp: 560729
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 40.0
 88 14.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.300 ug/l

RT: 7.951 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB146545ZHE#02

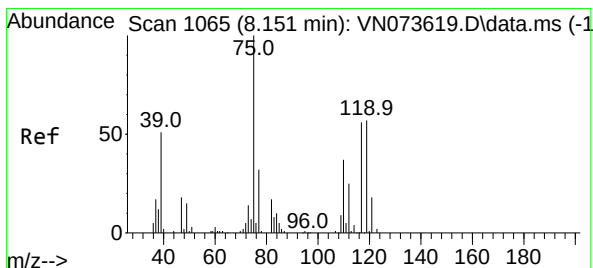
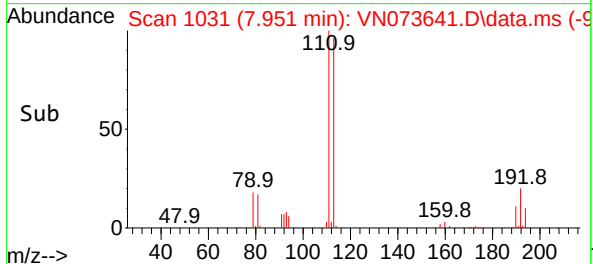
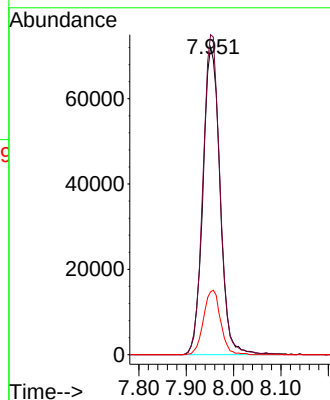
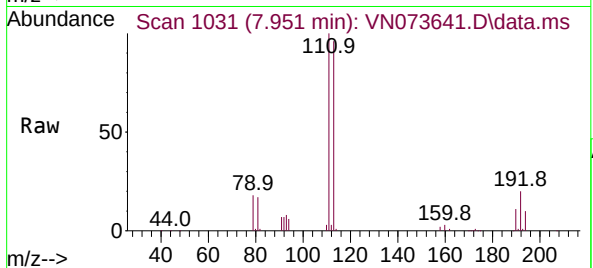
Tgt Ion:113 Resp: 180629

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.0

192 20.9 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.080 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

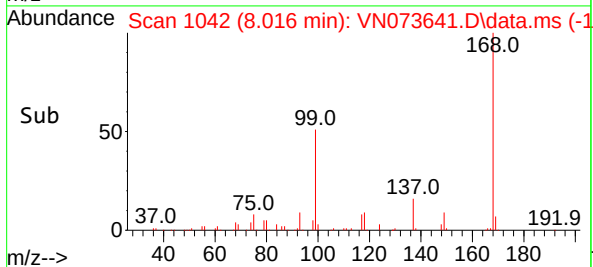
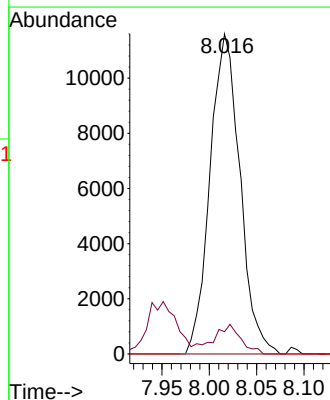
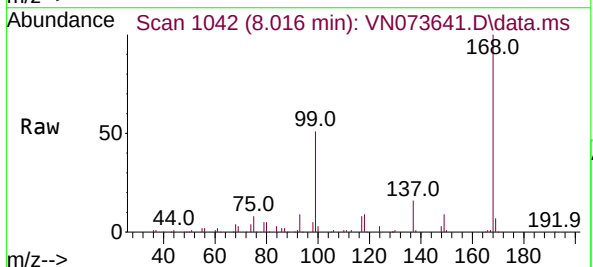
Tgt Ion: 75 Resp: 25493

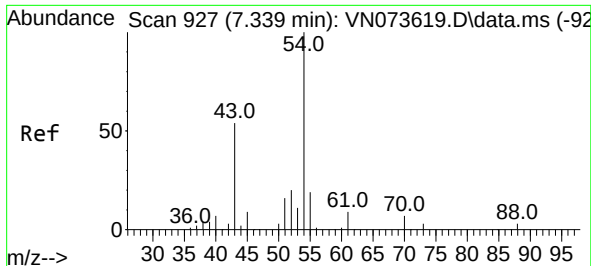
Ion Ratio Lower Upper

75 100

110 7.7 18.3 54.8#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 9.056 ug/l

RT: 7.340 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB146545ZHE#02

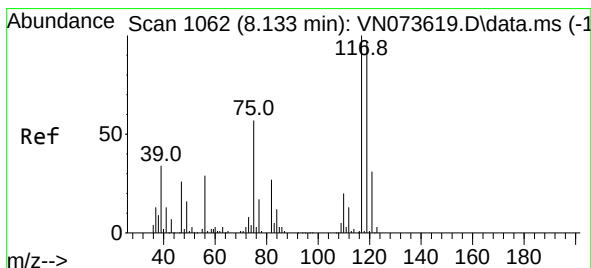
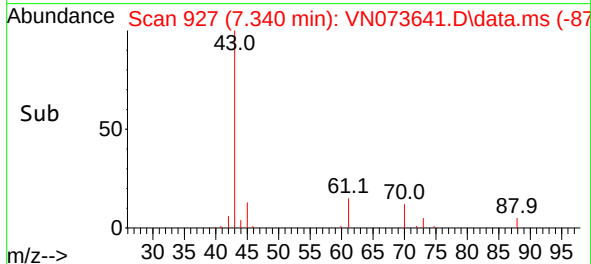
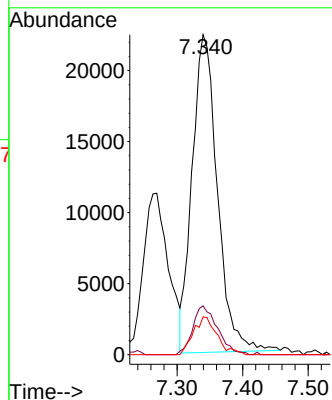
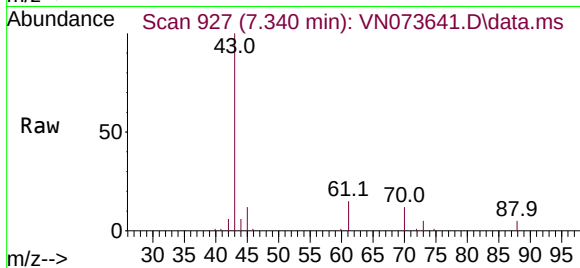
Tgt Ion: 43 Resp: 59848

Ion Ratio Lower Upper

43 100

61 15.1 11.8 17.6

70 11.2 9.3 13.9



#38

Carbon Tetrachloride

Concen: 6.403 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.112 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

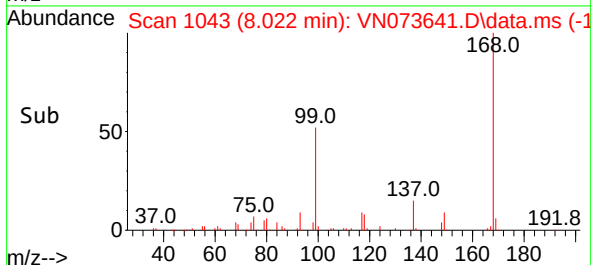
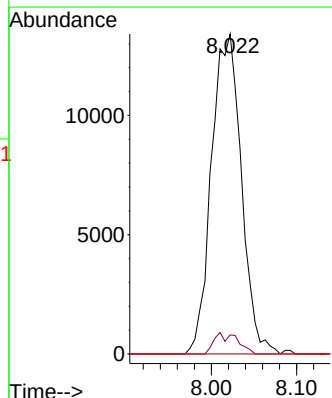
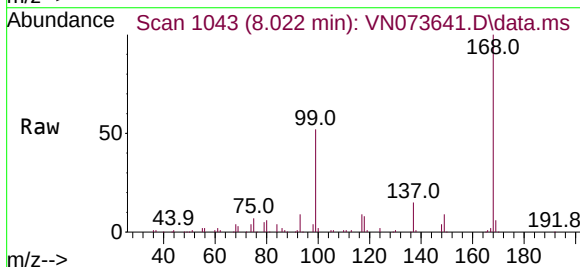
Tgt Ion: 117 Resp: 32633

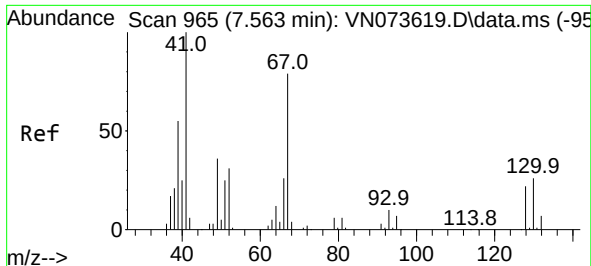
Ion Ratio Lower Upper

117 100

119 6.0 75.8 113.8#

121 0.0 24.6 37.0#

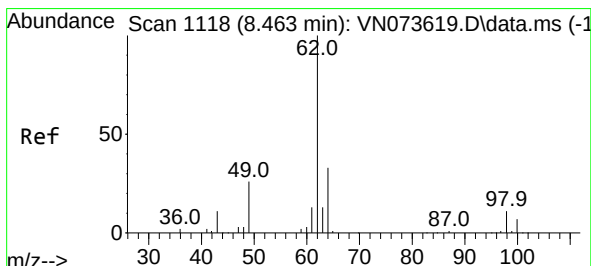
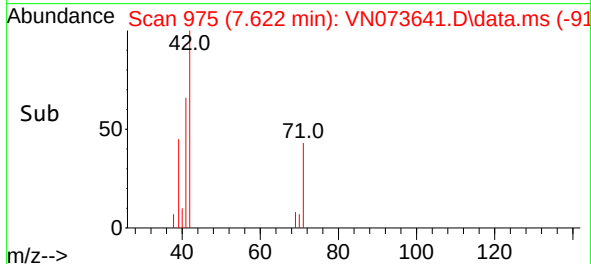
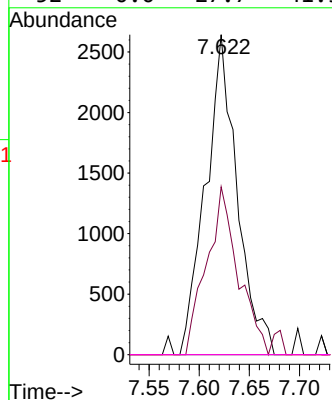
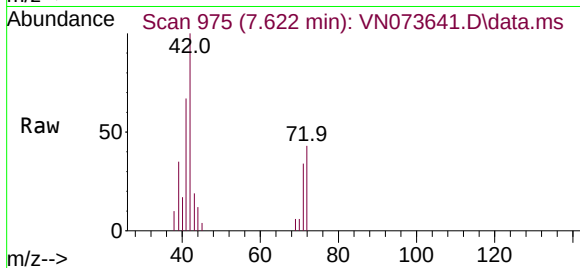




#41
Methacrylonitrile
Concen: 1.933 ug/l
RT: 7.622 min Scan# 91
Delta R.T. 0.059 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

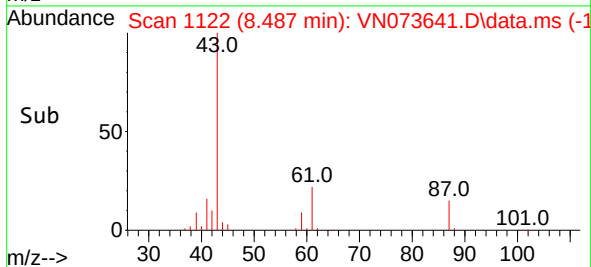
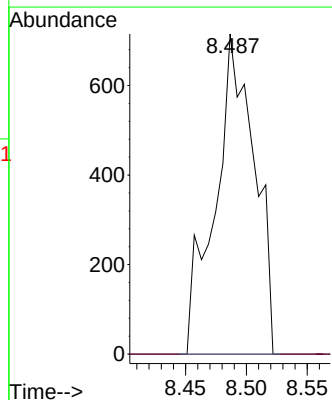
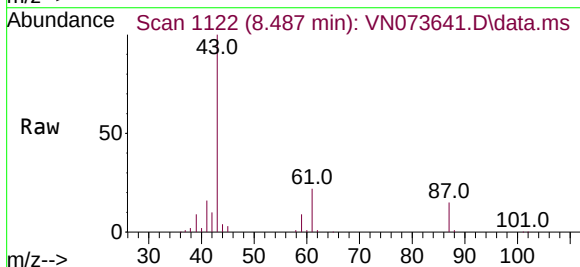
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

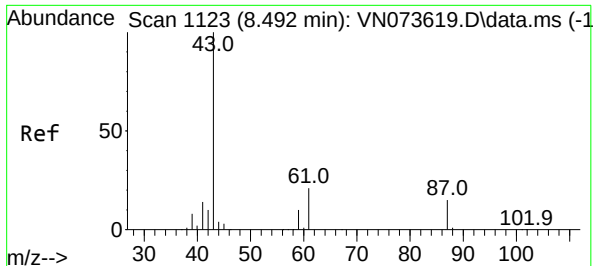
Tgt Ion:	41	Resp:	5780
Ion	Ratio	Lower	Upper
41	100		
39	52.8	48.6	73.0
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



#42
1,2-Dichloroethane
Concen: 0.293 ug/l
RT: 8.487 min Scan# 1122
Delta R.T. 0.024 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion:	62	Resp:	1610
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	19.4

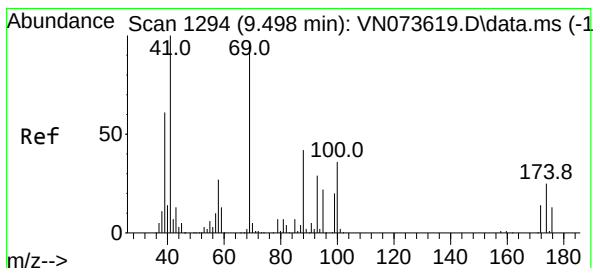
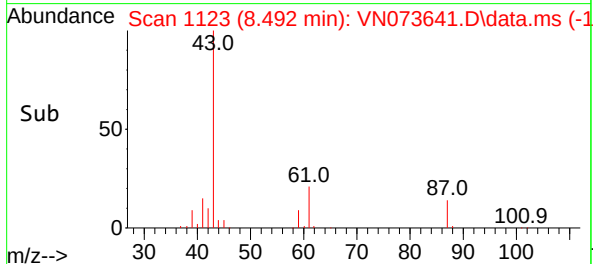
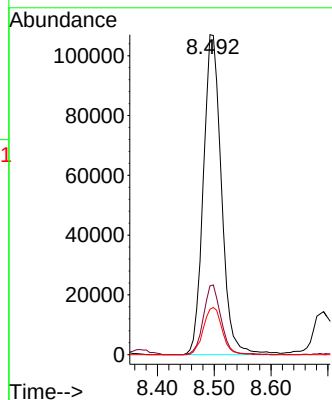
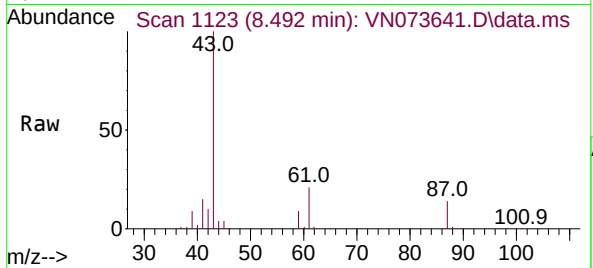




#43
Isopropyl Acetate
Concen: 26.507 ug/l
RT: 8.492 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

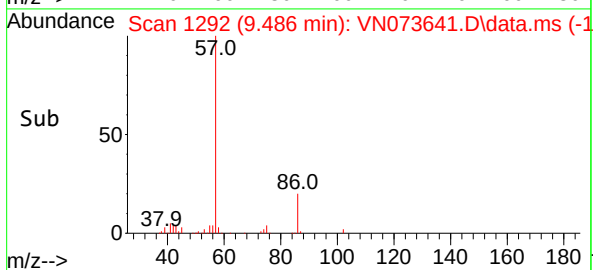
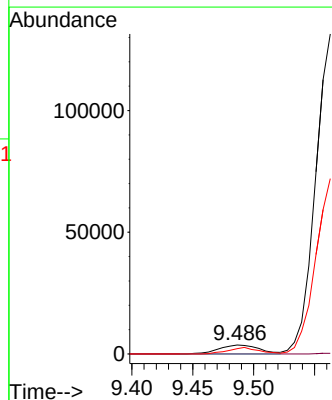
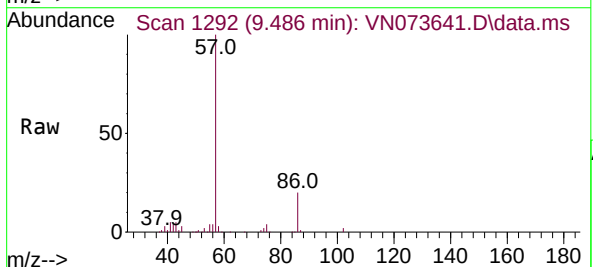
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

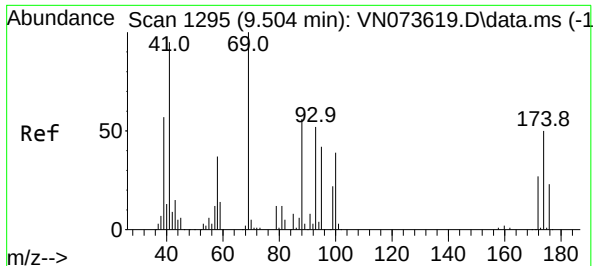
Tgt Ion: 43 Resp: 236614
Ion Ratio Lower Upper
43 100
61 21.2 21.9 32.9#
87 15.2 12.0 18.0



#48
Methyl methacrylate
Concen: 2.175 ug/l
RT: 9.486 min Scan# 1292
Delta R.T. -0.012 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion: 41 Resp: 8498
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 54.8 45.6 68.4





#49

1,4-Dioxane

Concen: 2.851 ug/l

RT: 9.510 min Scan# 1295

Delta R.T. 0.006 min

Lab File: VN073641.D

Acq: 29 Jul 2022 17:48

Instrument :

MSVOA_N

ClientSampleId :

PB146545ZHE#02

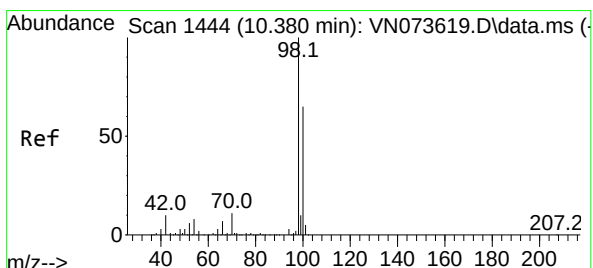
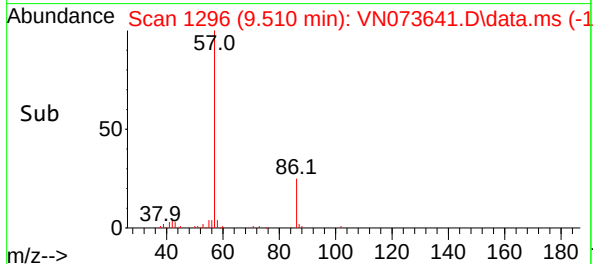
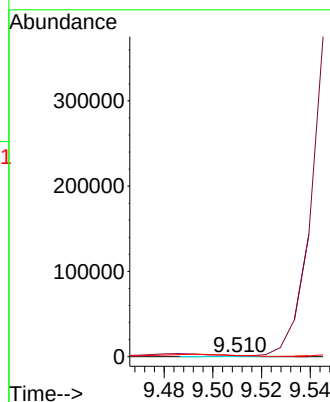
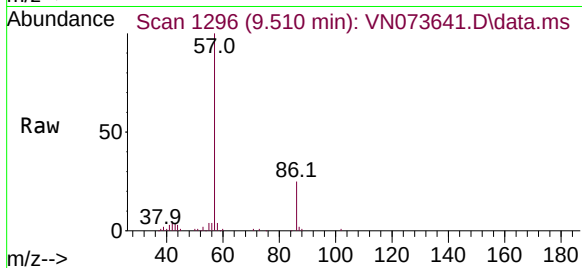
Tgt Ion: 88 Resp: 314

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.4#

58 2108.9 54.2 81.4#



#50

Toluene-d8

Concen: 45.594 ug/l

RT: 10.381 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN073641.D

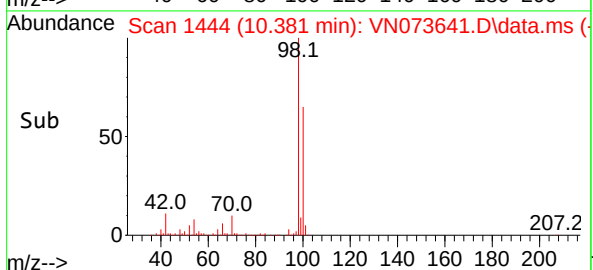
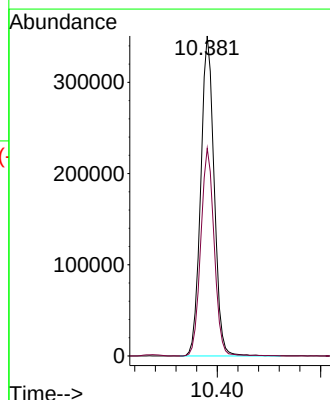
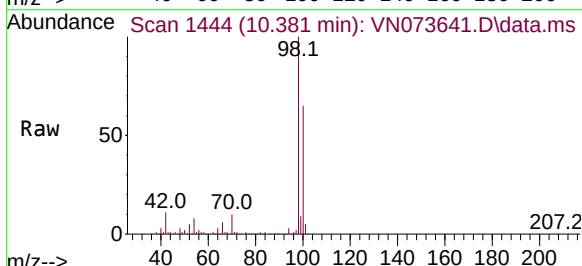
Acq: 29 Jul 2022 17:48

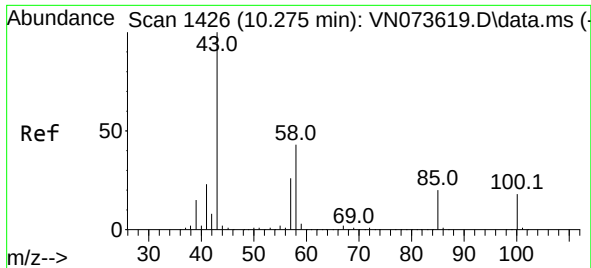
Tgt Ion: 98 Resp: 631732

Ion Ratio Lower Upper

98 100

100 65.2 52.6 78.8

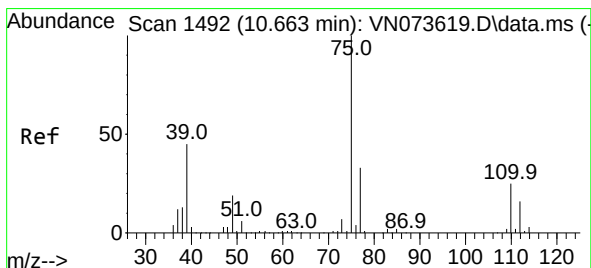
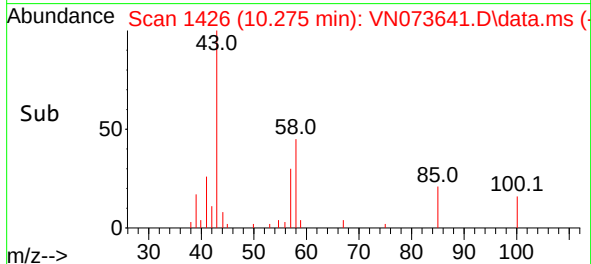
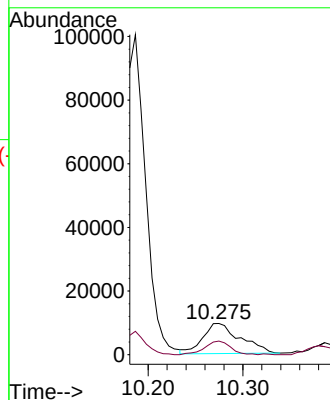
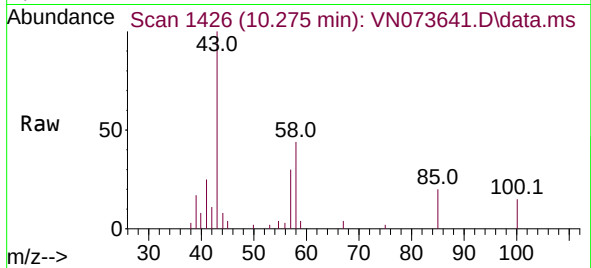




#51
4-Methyl-2-Pentanone
Concen: 4.037 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

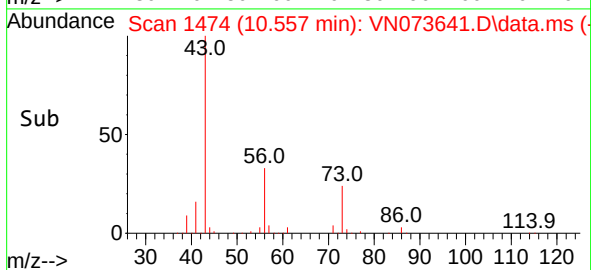
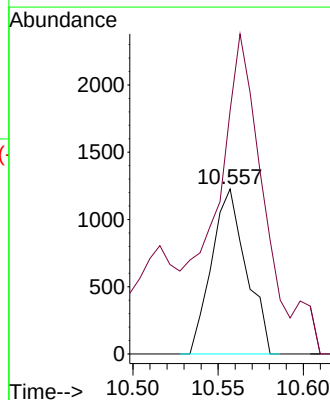
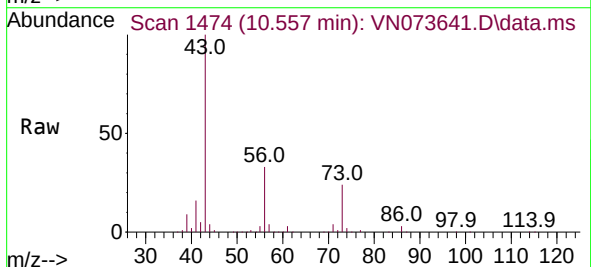
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

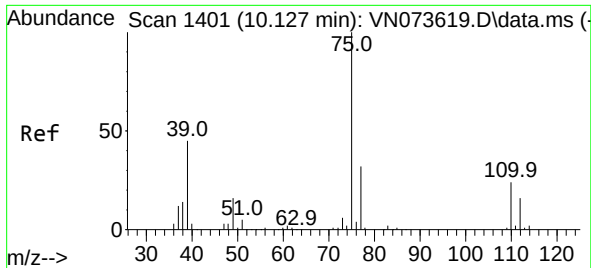
Tgt Ion: 43 Resp: 25848
Ion Ratio Lower Upper
43 100
58 31.2 34.1 51.1#



#53
t-1,3-Dichloropropene
Concen: 0.324 ug/l
RT: 10.557 min Scan# 1474
Delta R.T. -0.106 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion: 75 Resp: 1736
Ion Ratio Lower Upper
75 100
77 114.9 25.6 38.4#

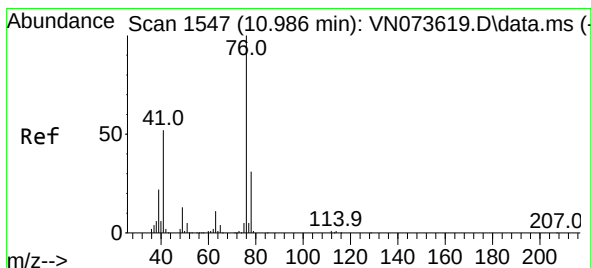
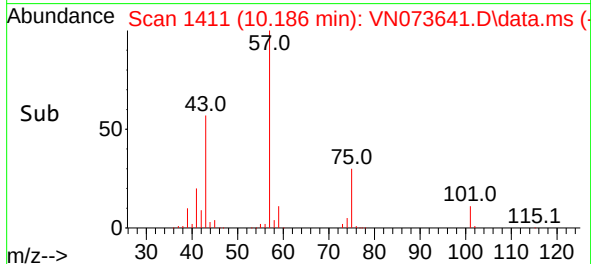
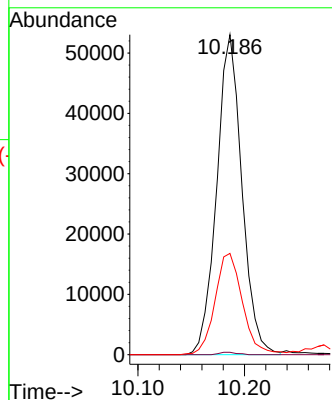
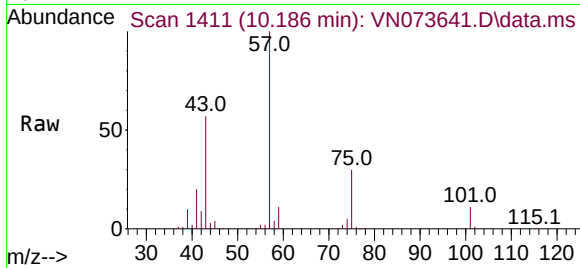




#54
 cis-1,3-Dichloropropene
 Concen: 14.432 ug/l
 RT: 10.186 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN073641.D
 Acq: 29 Jul 2022 17:48

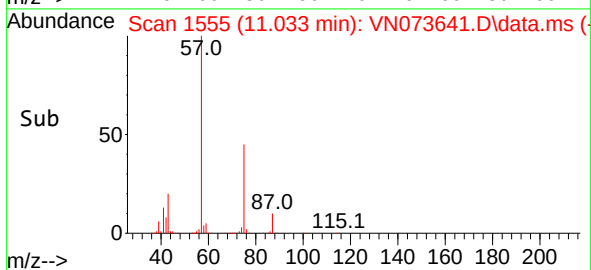
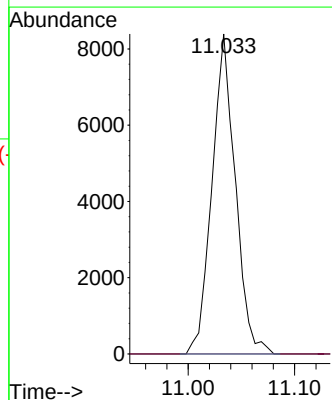
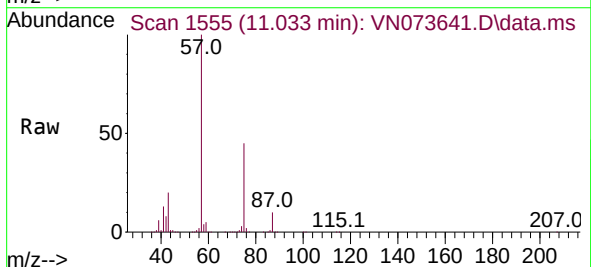
Instrument :
 MSVOA_N
 ClientSampleId :
 PB146545ZHE#02

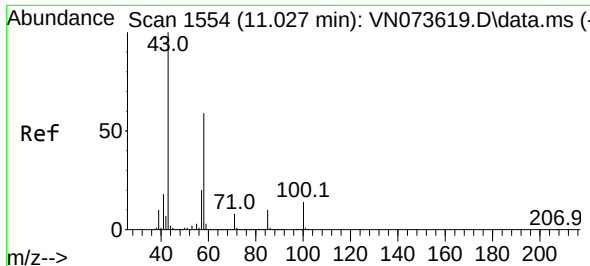
Tgt Ion: 75 Resp: 87171
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 31.6 35.7 53.5#



#57
 1,3-Dichloropropane
 Concen: 1.812 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN073641.D
 Acq: 29 Jul 2022 17:48

Tgt Ion: 76 Resp: 12764
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#

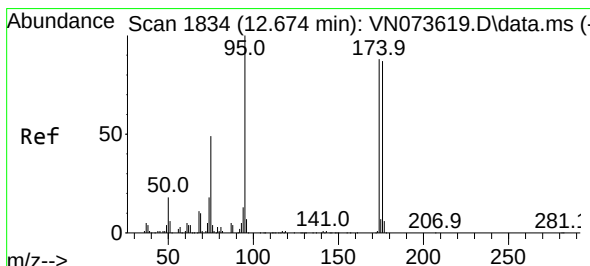
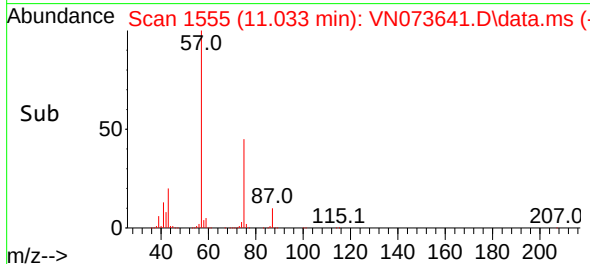
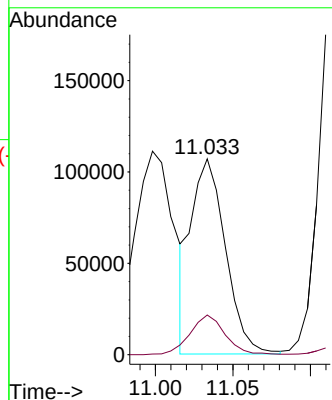
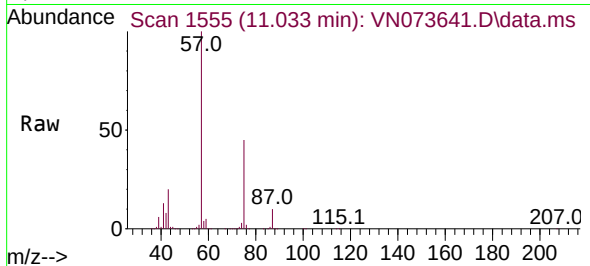




#59
2-Hexanone
Concen: 33.944 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

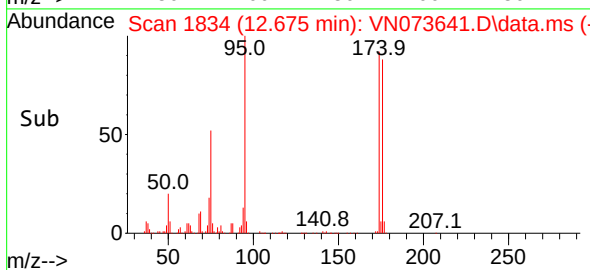
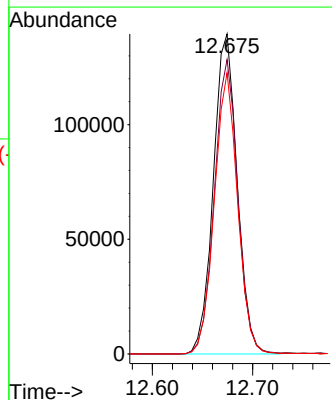
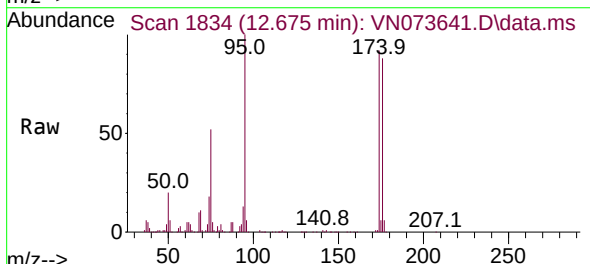
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

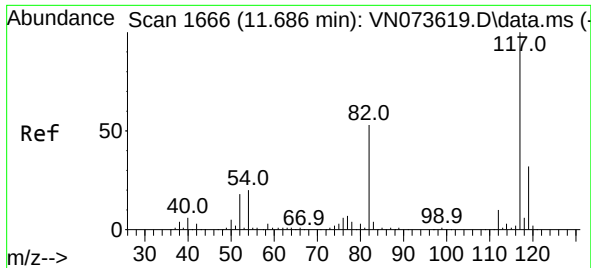
Tgt Ion: 43 Resp: 164656
Ion Ratio Lower Upper
43 100
58 20.9 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 49.783 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.001 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion: 95 Resp: 230260
Ion Ratio Lower Upper
95 100
174 90.6 0.0 167.6
176 85.6 0.0 163.4

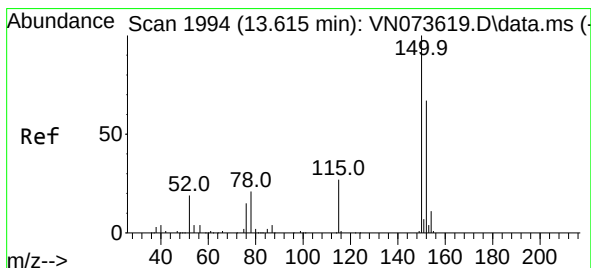
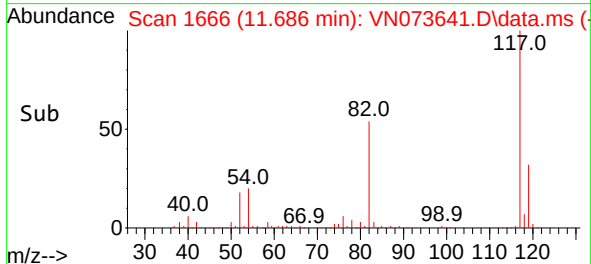
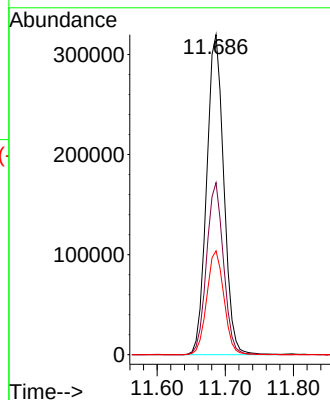
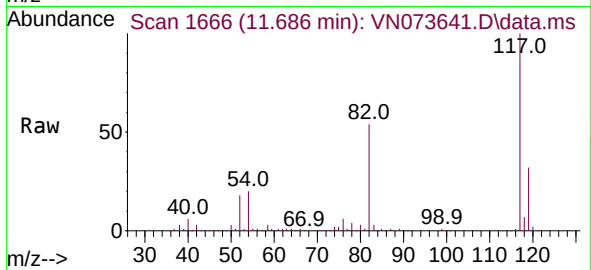




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

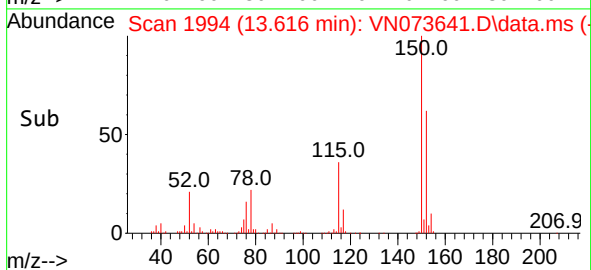
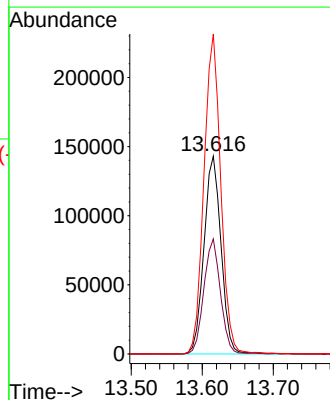
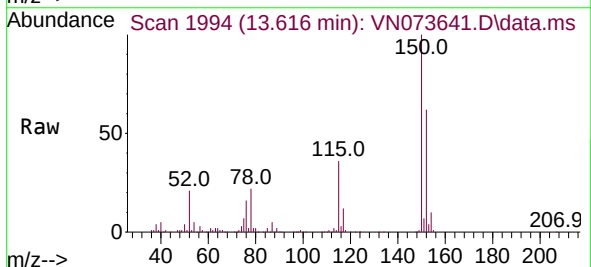
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

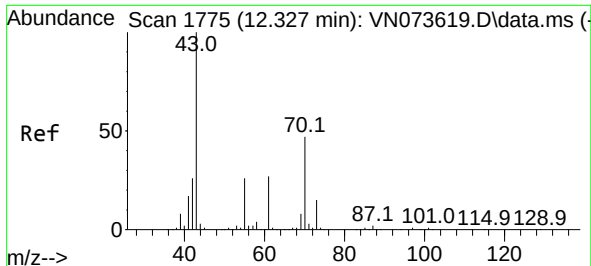
Tgt Ion:117 Resp: 559615
Ion Ratio Lower Upper
117 100
82 53.8 44.2 66.2
119 32.5 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion:152 Resp: 239803
Ion Ratio Lower Upper
152 100
115 56.6 28.9 86.7
150 159.3 0.0 356.2

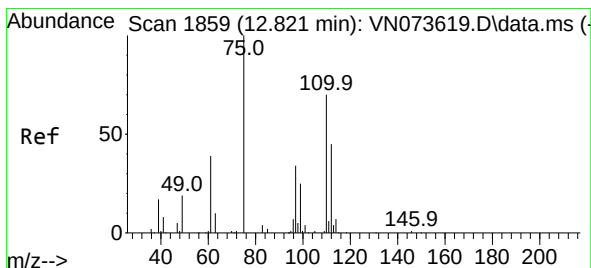
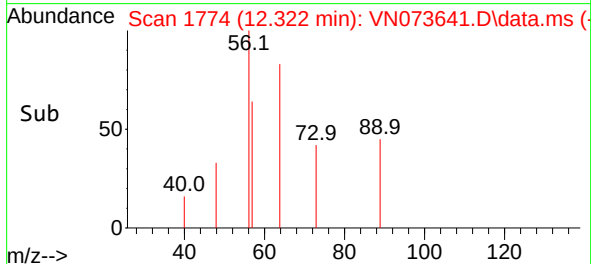
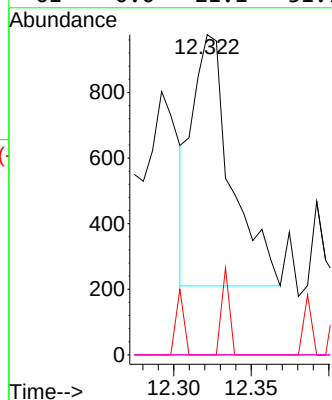
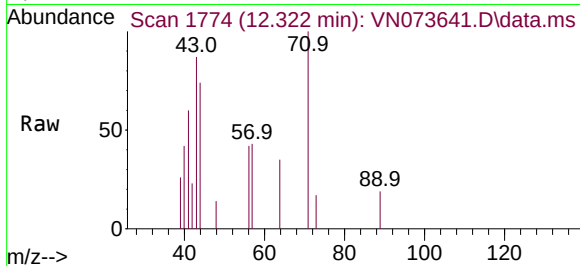




#74
N-amy1 acetate
Concen: 0.203 ug/l
RT: 12.322 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

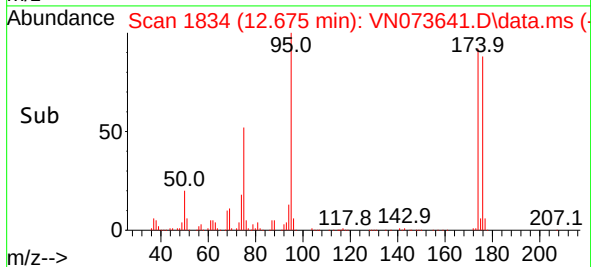
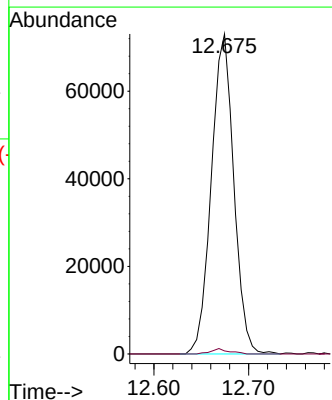
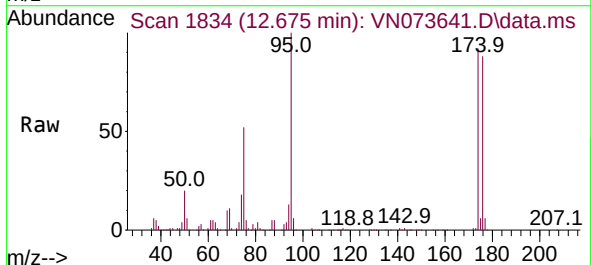
Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

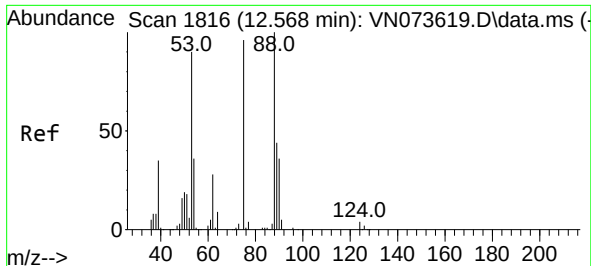
Tgt Ion: 43	Resp: 1348
Ion Ratio	Lower Upper
43 100	
70 0.0	39.0 58.4#
55 6.9	21.1 31.7#
61 0.0	21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 25.821 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. -0.146 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion:	75	Resp:	120282
Ion	Ratio	Lower	Upper
75	100		
77	1.3	98.5	295.5#

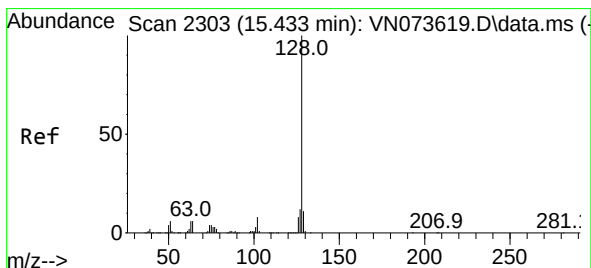
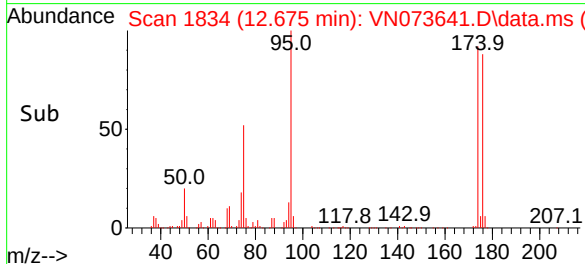
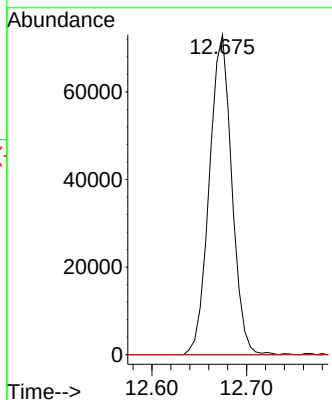
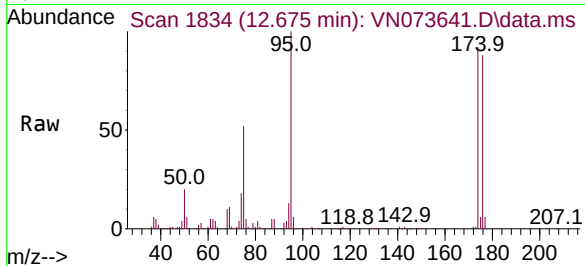




#81
trans-1,4-Dichloro-2-butene
Concen: 65.002 ug/l
RT: 12.675 min Scan# 1816
Delta R.T. 0.106 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Instrument :
MSVOA_N
ClientSampleId :
PB146545ZHE#02

Tgt Ion: 75 Resp: 120282
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#95
Naphthalene
Concen: 0.210 ug/l
RT: 15.439 min Scan# 2304
Delta R.T. 0.006 min
Lab File: VN073641.D
Acq: 29 Jul 2022 17:48

Tgt Ion:128 Resp: 2865
Ion Ratio Lower Upper
128 100
127 11.1 10.3 15.5
129 5.8 8.6 13.0#

