

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122822\
 Data File : VN076024.D
 Acq On : 29 Dec 2022 01:43
 Operator : JC\MD
 Sample : PB149923ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB149923ZHE#05

Quant Time: Dec 29 07:49:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

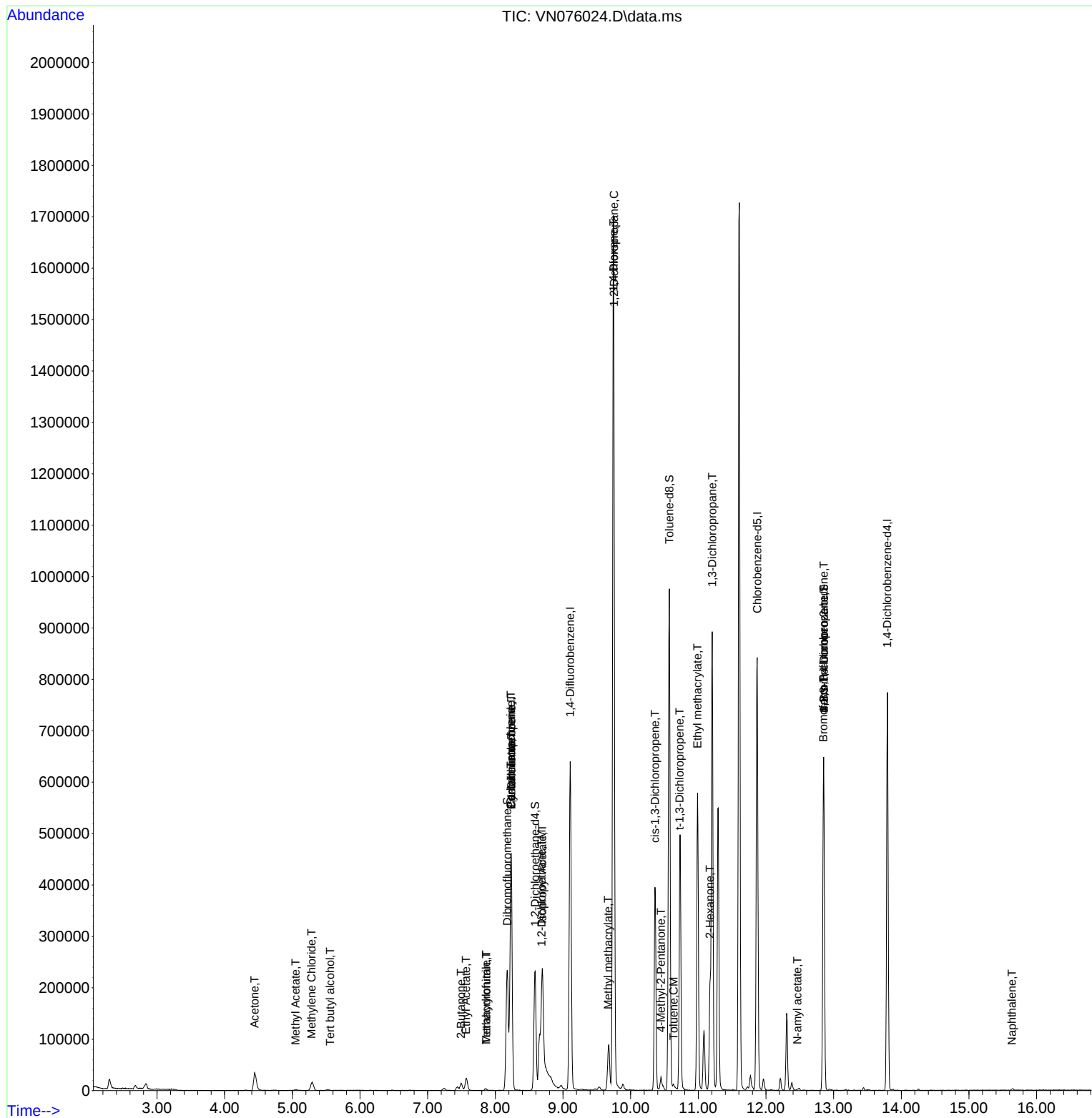
Internal Standards						
1) Pentafluorobenzene	8.235	168	364058	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	595028	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	520582	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	214084	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	189858	47.937	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.880%		
35) Dibromofluoromethane	8.177	113	169270	45.936	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.880%		
50) Toluene-d8	10.571	98	682323	49.524	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.040%		
62) 4-Bromofluorobenzene	12.853	95	217547	47.674	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.340%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.559	59	568	1.014	ug/l	100
16) Acetone	4.442	43	64830	47.484	ug/l	99
18) Methyl Acetate	5.047	43	2887	0.715	ug/l #	58
20) Methylene Chloride	5.283	84	13616	3.128	ug/l	94
25) 2-Butanone	7.494	43	20986	10.978	ug/l	92
29) Tetrahydrofuran	7.865	42	2244	1.873	ug/l #	89
31) Cyclohexane	8.235	56	6511	1.148	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	26134	5.339	ug/l #	49
37) Ethyl Acetate	7.565	43	36496	9.282	ug/l	98
38) Carbon Tetrachloride	8.230	117	36809	6.719	ug/l #	16
41) Methacrylonitrile	7.865	41	1272	0.622	ug/l #	28
42) 1,2-Dichloroethane	8.682	62	2067	0.412	ug/l #	72
43) Isopropyl Acetate	8.694	43	419025	64.605	ug/l #	69
45) 1,2-Dichloropropane	9.753	63	2418	0.658	ug/l #	43
48) Methyl methacrylate	9.665	41	5454	1.867	ug/l #	33
49) 1,4-Dioxane	9.747	88	147	2.047	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	19570	4.989	ug/l #	86
52) Toluene	10.635	92	4248	0.432	ug/l	99
53) t-1,3-Dichloropropene	10.724	75	1300	0.248	ug/l #	58
54) cis-1,3-Dichloropropene	10.359	75	78599	13.681	ug/l #	64
56) Ethyl methacrylate	10.988	69	1677	0.327	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	10156	1.604	ug/l #	42
59) 2-Hexanone	11.171	43	151571	52.987	ug/l #	20
71) Bromoform	12.847	173	1382	0.480	ug/l #	1
74) N-amyl acetate	12.465	43	3047	0.671	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	110078	25.508	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	110078	91.816	ug/l #	12
95) Naphthalene	15.635	128	4479	2.545	ug/l #	82

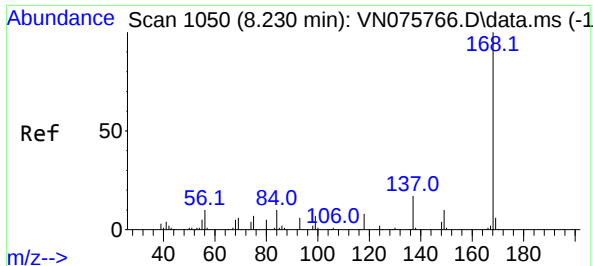
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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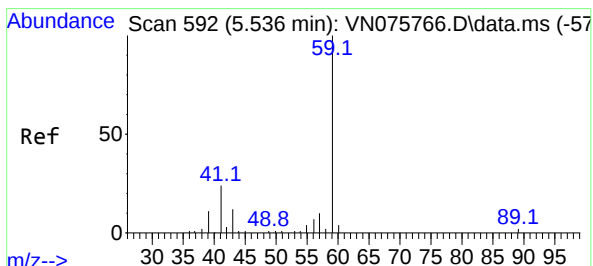
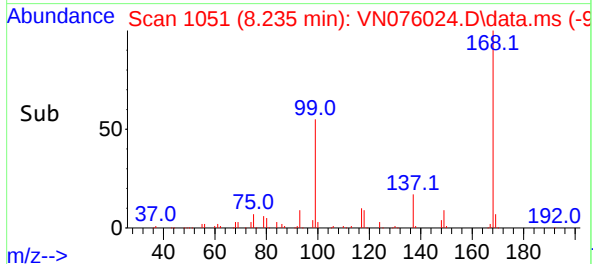
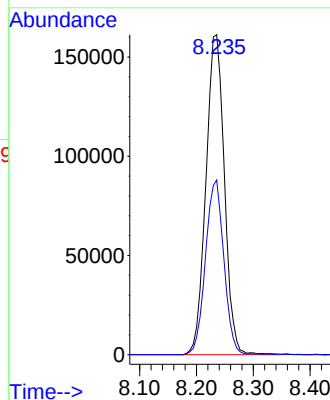
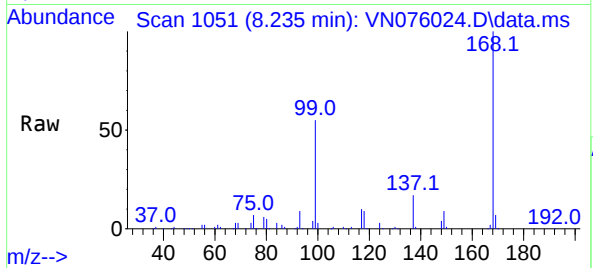




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1050
Delta R.T. 0.005 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

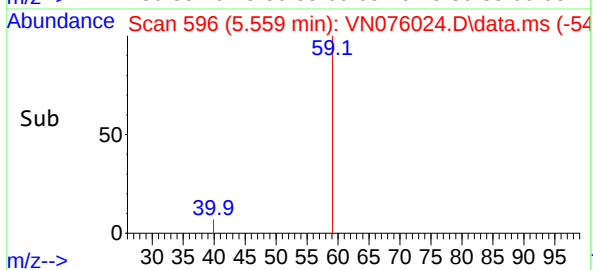
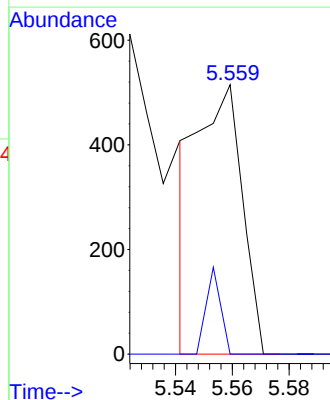
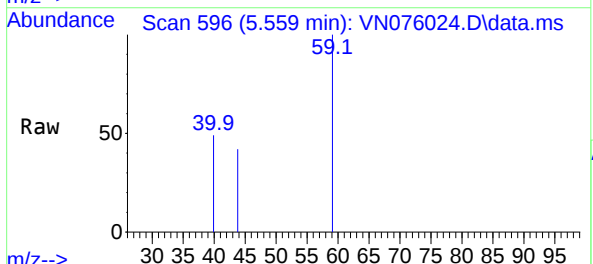
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

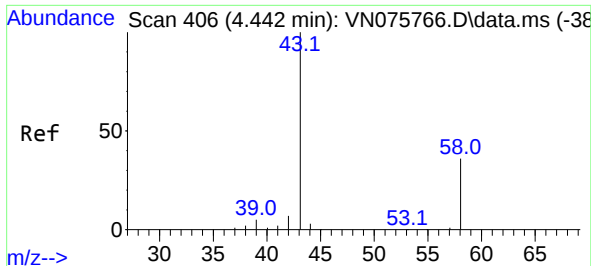
Tgt Ion:168 Resp: 364058
Ion Ratio Lower Upper
168 100
99 54.6 44.2 66.4



#11
Tert butyl alcohol
Concen: 1.014 ug/l
RT: 5.559 min Scan# 596
Delta R.T. 0.024 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 59 Resp: 568
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.4

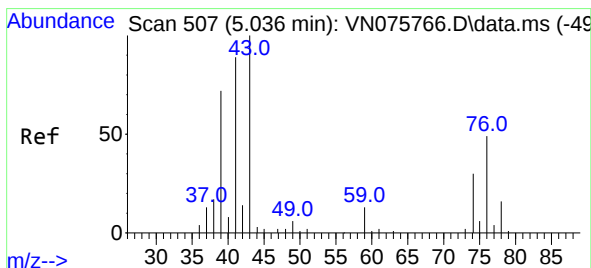
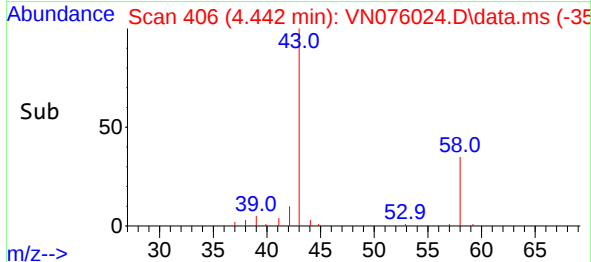
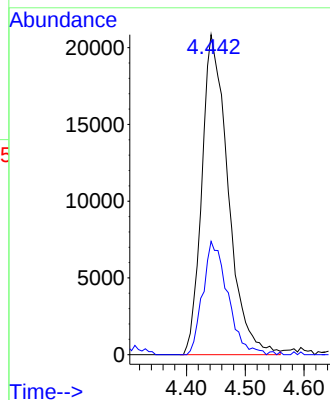
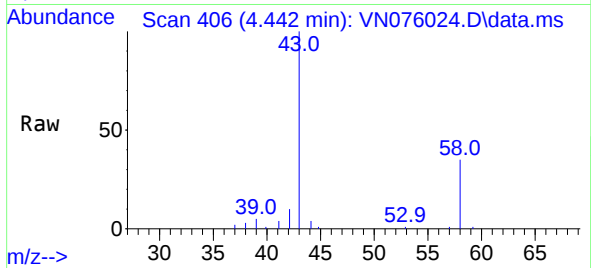




#16
Acetone
Concen: 47.484 ug/l
RT: 4.442 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

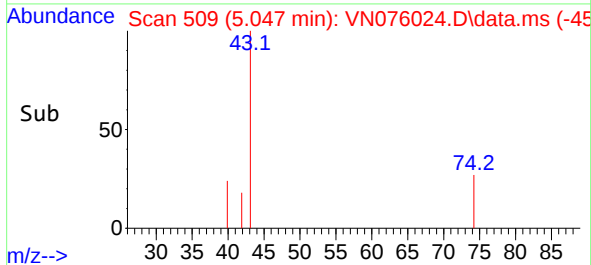
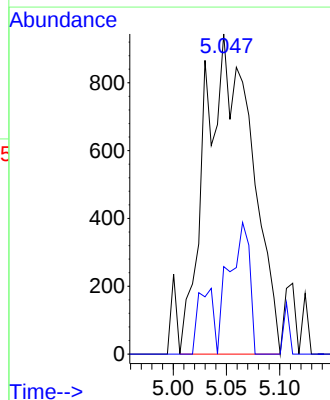
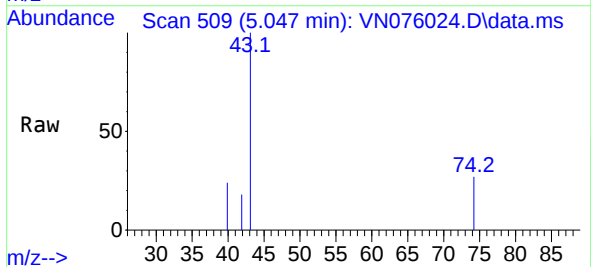
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

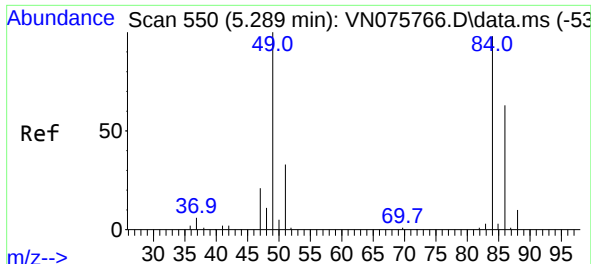
Tgt Ion: 43 Resp: 64830
Ion Ratio Lower Upper
43 100
58 35.4 28.6 43.0



#18
Methyl Acetate
Concen: 0.715 ug/l
RT: 5.047 min Scan# 509
Delta R.T. 0.012 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

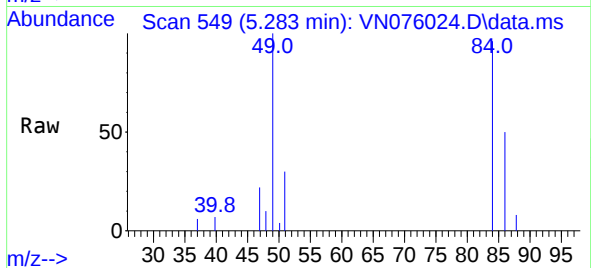
Tgt Ion: 43 Resp: 2887
Ion Ratio Lower Upper
43 100
74 6.7 23.6 35.4#





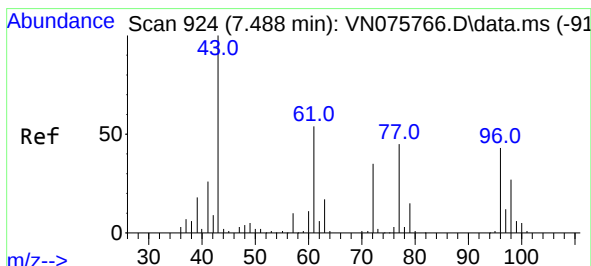
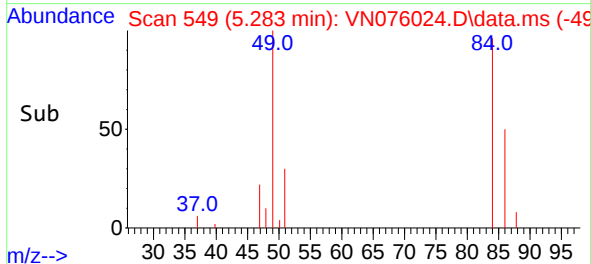
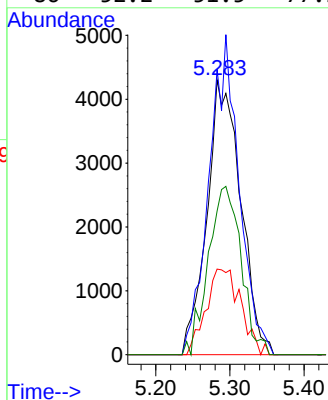
#20
Methylene Chloride
Concen: 3.128 ug/l
RT: 5.283 min Scan# 54
Delta R.T. -0.006 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05



Tgt Ion: 84 Resp: 13616

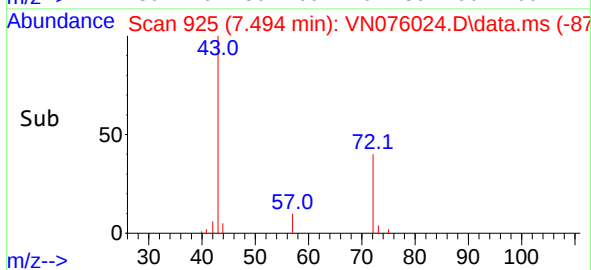
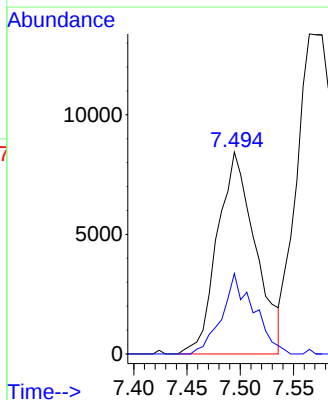
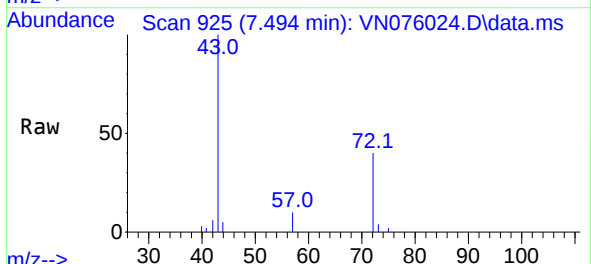
Ion	Ratio	Lower	Upper
84	100		
49	103.8	81.8	122.6
51	31.2	26.7	40.1
86	52.2	51.5	77.3

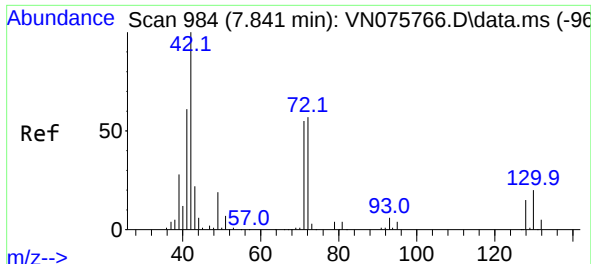


#25
2-Butanone
Concen: 10.978 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 43 Resp: 20986

Ion	Ratio	Lower	Upper
43	100		
72	39.8	28.0	42.0

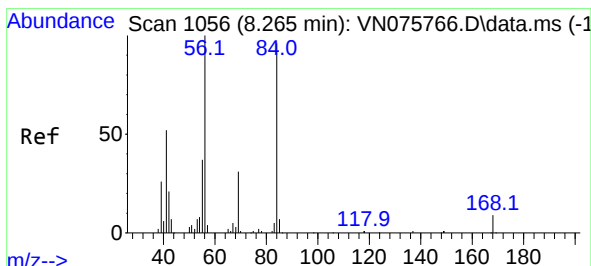
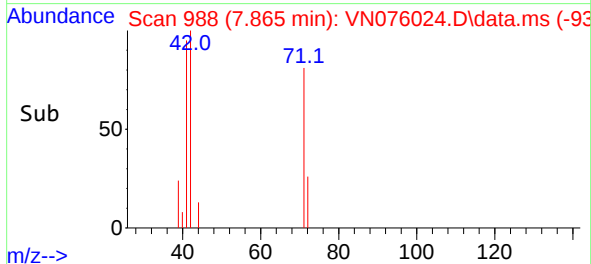
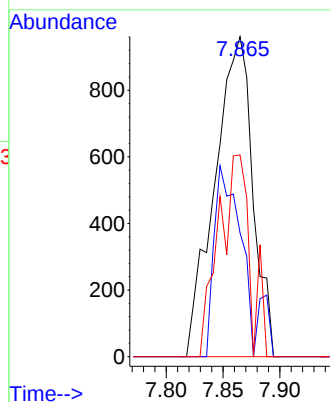
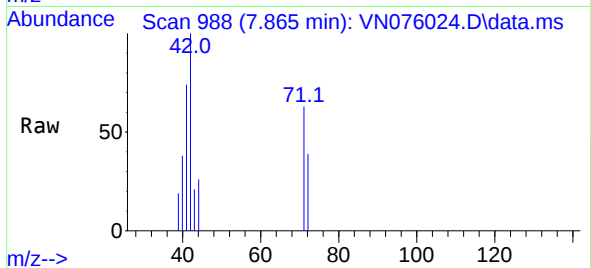




#29
Tetrahydrofuran
Concen: 1.873 ug/l
RT: 7.865 min Scan# 91
Delta R.T. 0.023 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

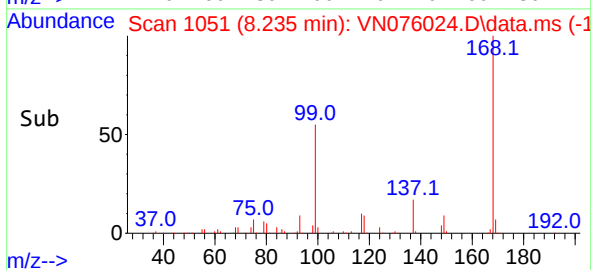
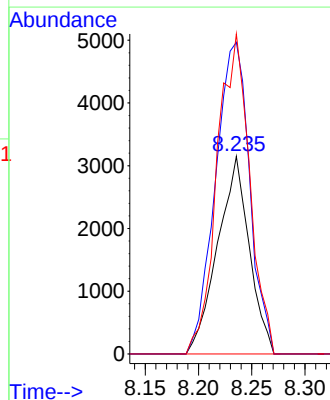
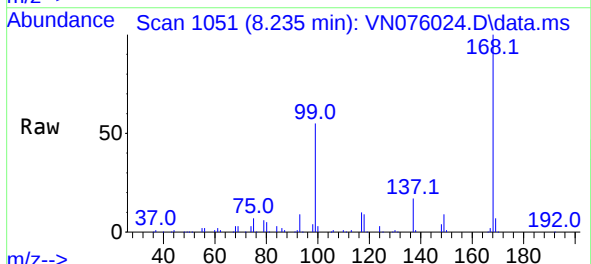
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

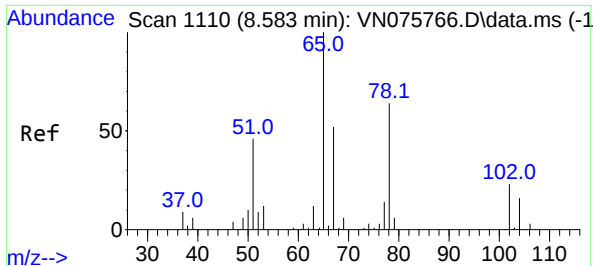
Tgt Ion: 42 Resp: 2244
Ion Ratio Lower Upper
42 100
72 40.2 44.5 66.7#
71 51.4 41.0 61.6



#31
Cyclohexane
Concen: 1.148 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.029 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 56 Resp: 6511
Ion Ratio Lower Upper
56 100
69 157.7 24.7 37.1#
84 161.9 76.5 114.7#

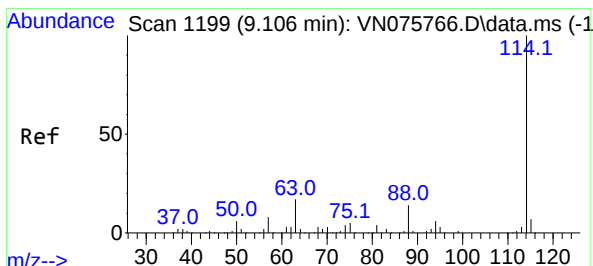
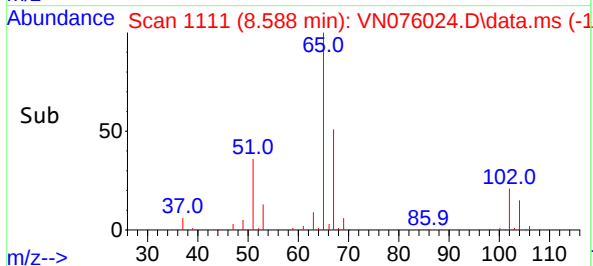
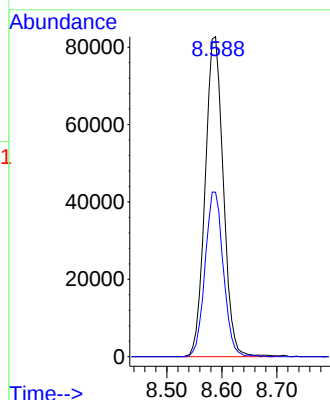
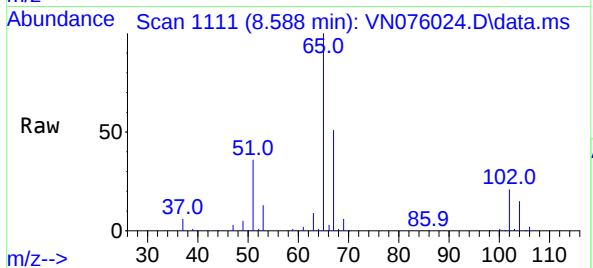




#33
1,2-Dichloroethane-d4
Concen: 47.937 ug/l
RT: 8.588 min Scan# 1110
Delta R.T. 0.006 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

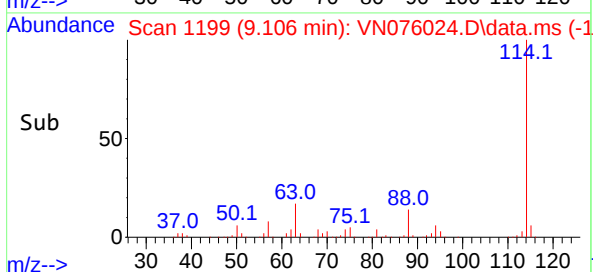
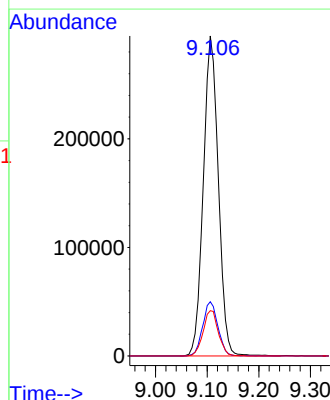
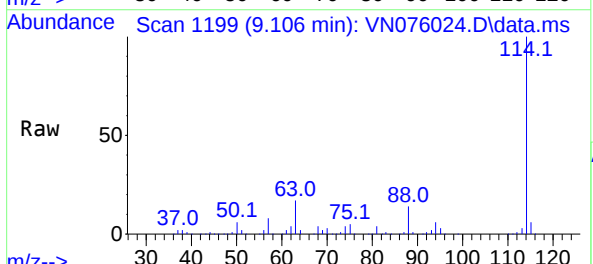
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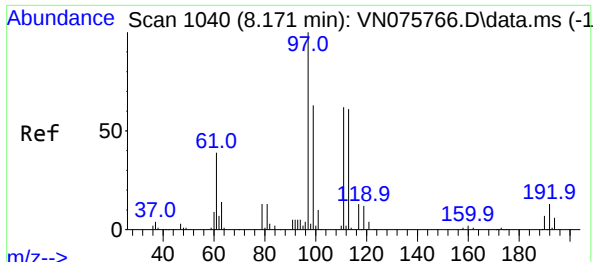
Tgt Ion: 65 Resp: 189858
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

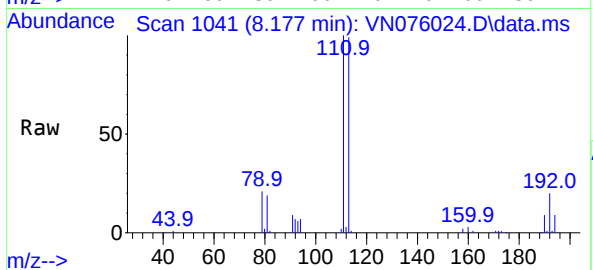
Tgt Ion: 114 Resp: 595028
Ion Ratio Lower Upper
114 100
63 16.9 0.0 34.4
88 14.2 0.0 28.8



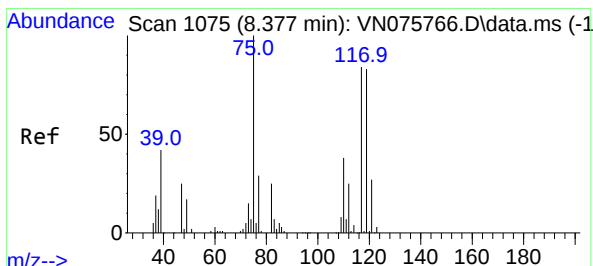
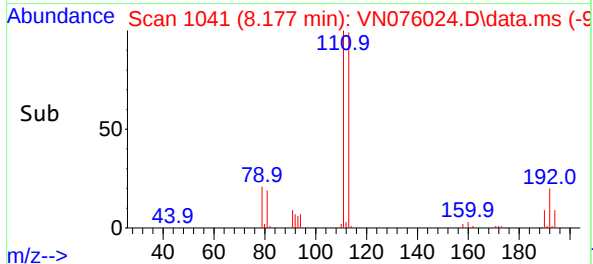
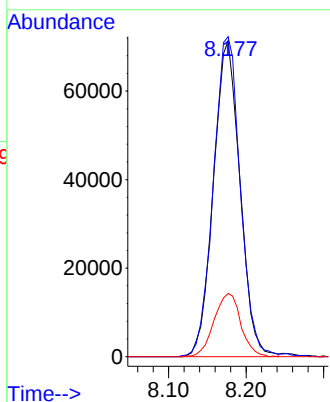


#35
Dibromofluoromethane
Concen: 45.936 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Instrument :
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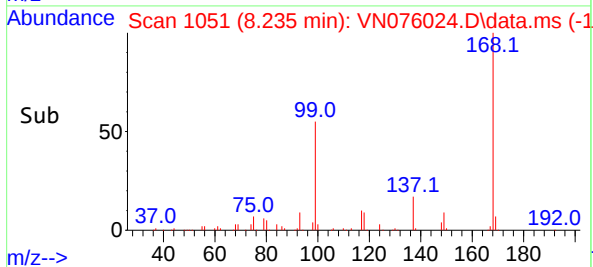
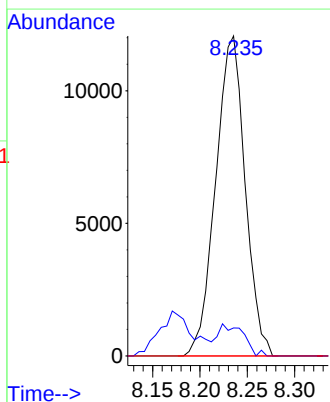
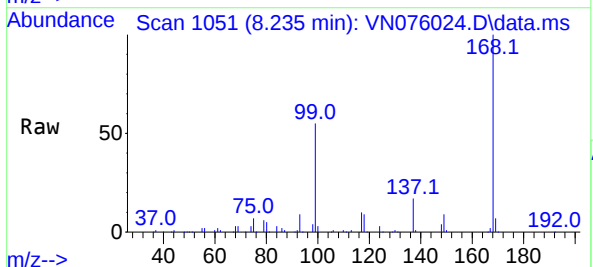


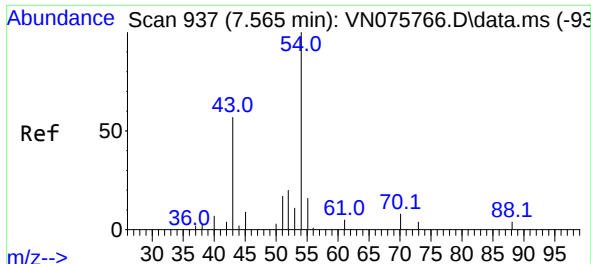
Tgt Ion:113 Resp: 169270
Ion Ratio Lower Upper
113 100
111 103.2 83.4 125.2
192 20.3 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.339 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.141 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 75 Resp: 26134
Ion Ratio Lower Upper
75 100
110 8.7 18.8 56.4#
77 0.0 24.1 36.1#





#37

Ethyl Acetate

Concen: 9.282 ug/l

RT: 7.565 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN076024.D

Acq: 29 Dec 2022 01:43

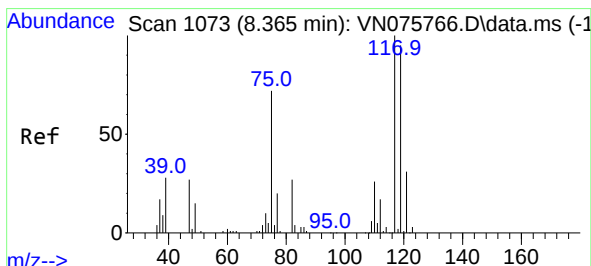
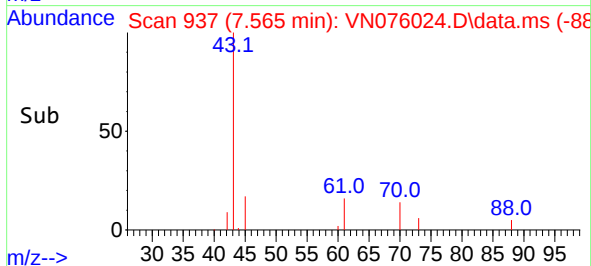
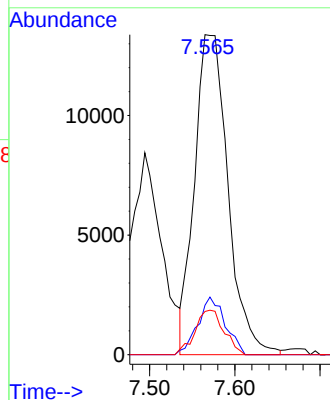
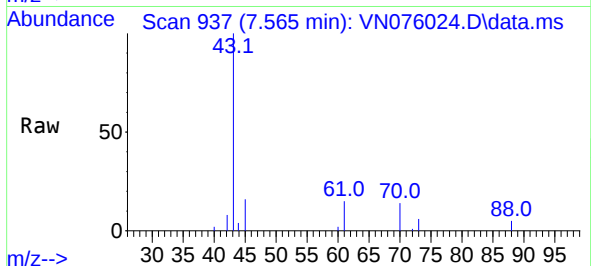
Instrument :

MSVOA_N

ClientSampleId :

PB149923ZHE#05

Tgt Ion:	43	Resp:	36496
Ion	Ratio	Lower	Upper
43	100		
61	14.8	13.0	19.4
70	12.0	9.4	14.0



#38

Carbon Tetrachloride

Concen: 6.719 ug/l

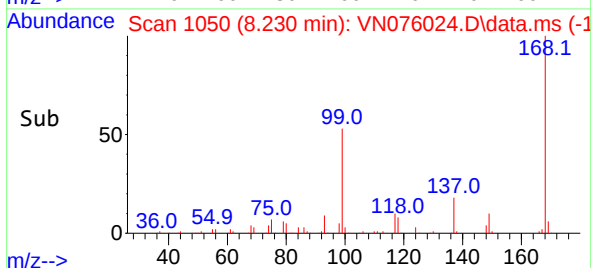
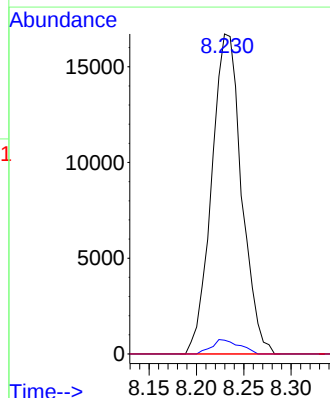
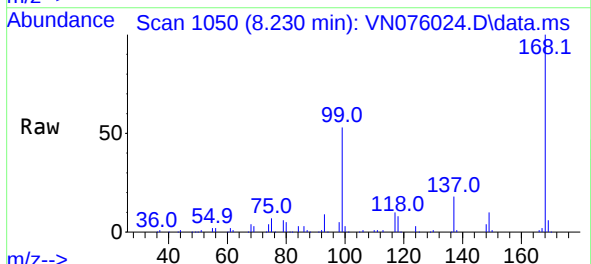
RT: 8.230 min Scan# 1050

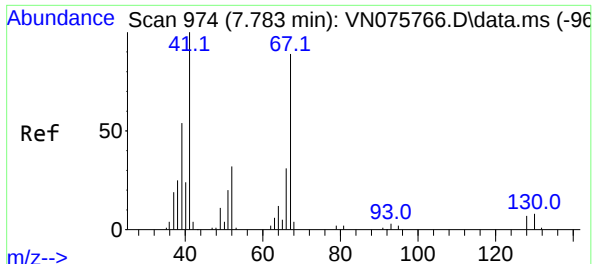
Delta R.T. -0.135 min

Lab File: VN076024.D

Acq: 29 Dec 2022 01:43

Tgt Ion:	117	Resp:	36809
Ion	Ratio	Lower	Upper
117	100		
119	4.3	76.1	114.1#
121	0.0	24.5	36.7#

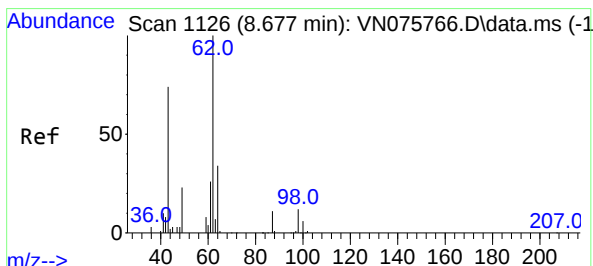
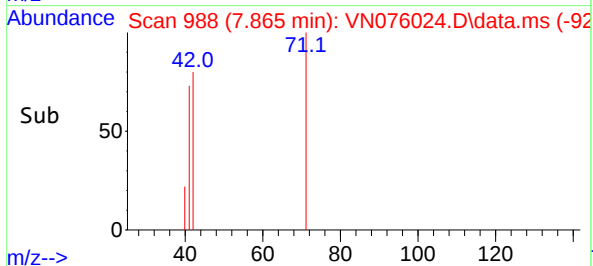
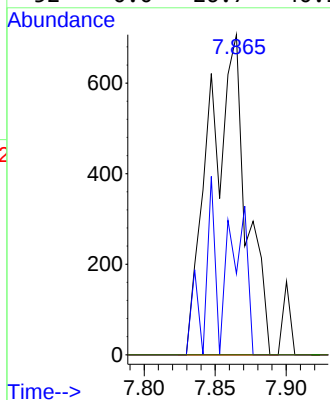
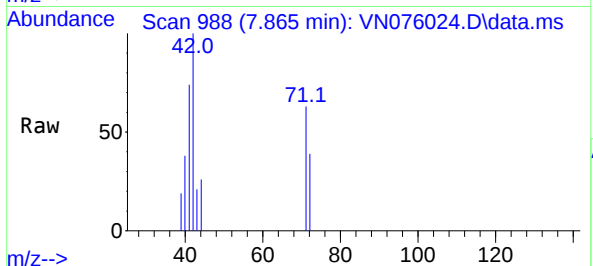




#41
Methacrylonitrile
Concen: 0.622 ug/l
RT: 7.865 min Scan# 91
Delta R.T. 0.082 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

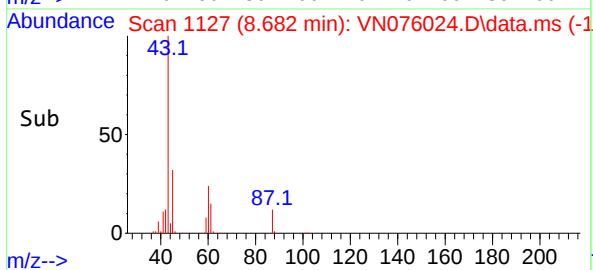
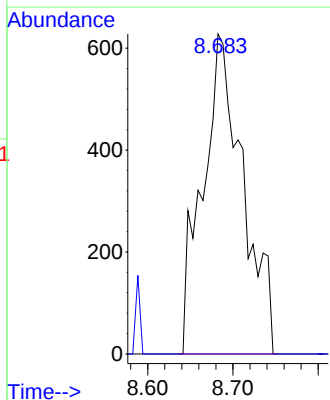
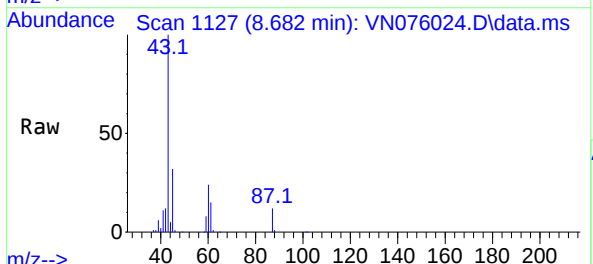
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

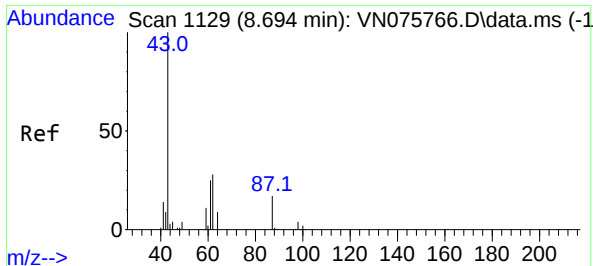
Tgt Ion: 41 Resp: 1272
Ion Ratio Lower Upper
41 100
39 22.3 43.1 64.7#
67 0.0 70.7 106.1#
52 0.0 26.7 40.1#



#42
1,2-Dichloroethane
Concen: 0.412 ug/l
RT: 8.682 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 62 Resp: 2067
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.8

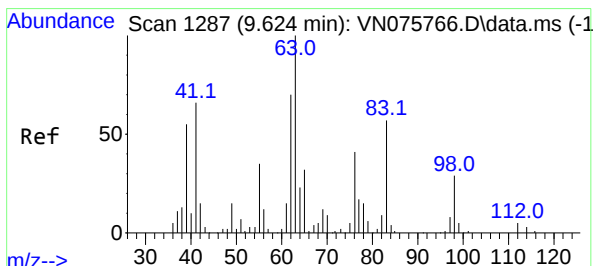
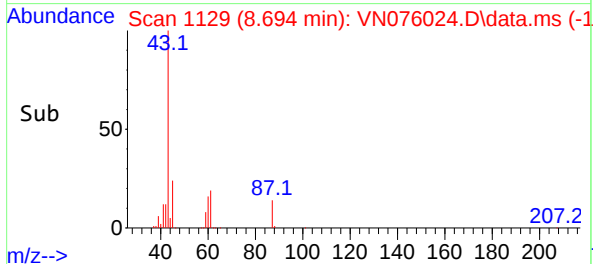
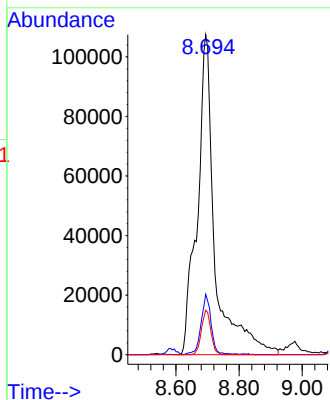
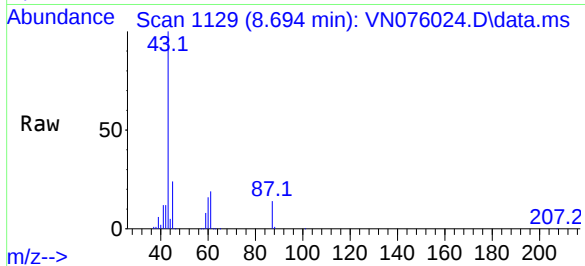




#43
Isopropyl Acetate
Concen: 64.605 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

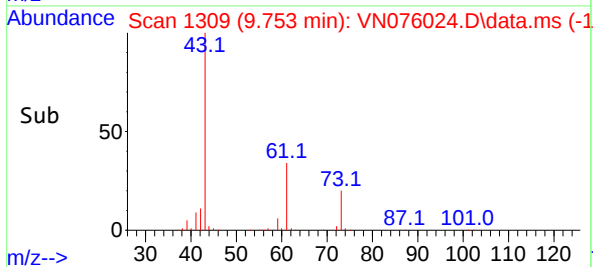
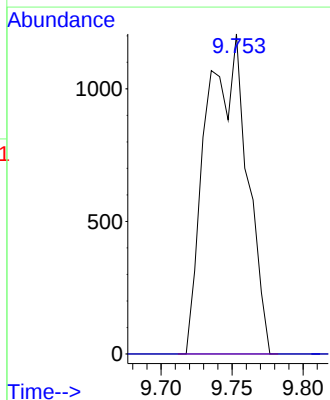
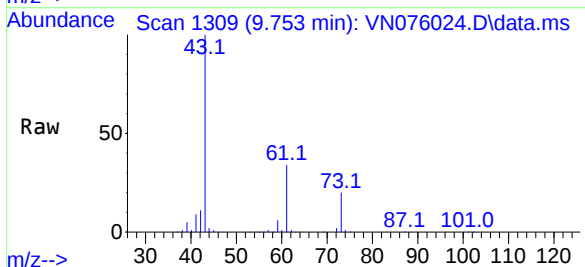
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

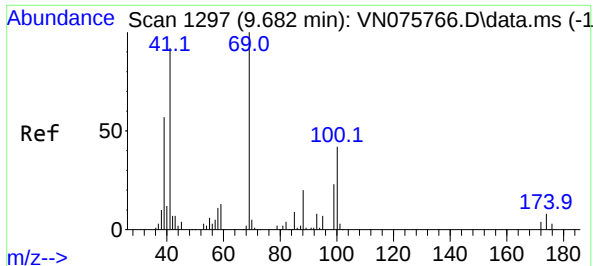
Tgt Ion: 43 Resp: 419025
Ion Ratio Lower Upper
43 100
61 10.7 24.2 36.4#
87 7.3 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.658 ug/l
RT: 9.753 min Scan# 1309
Delta R.T. 0.129 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 63 Resp: 2418
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#





#48

Methyl methacrylate

Concen: 1.867 ug/l

RT: 9.665 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN076024.D

Acq: 29 Dec 2022 01:43

Instrument :

MSVOA_N

ClientSampleId :

PB149923ZHE#05

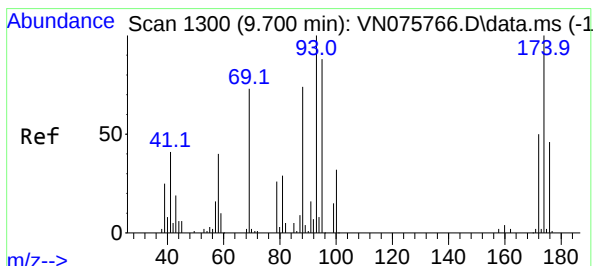
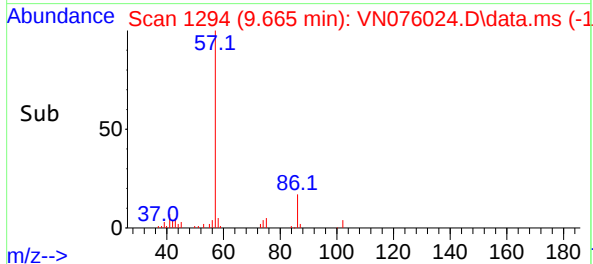
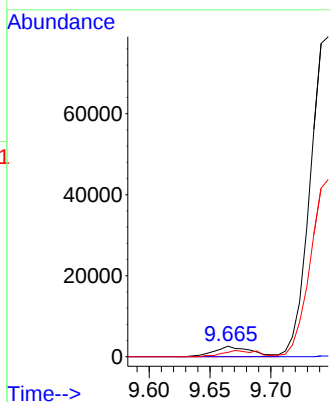
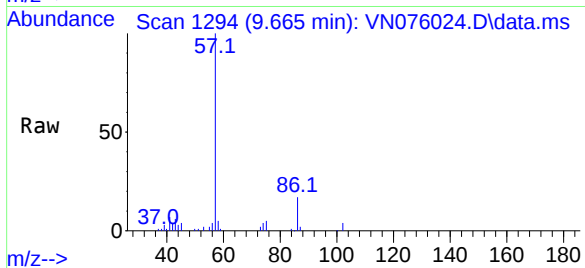
Tgt Ion: 41 Resp: 5454

Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 54.9 51.6 77.4



#49

1,4-Dioxane

Concen: 2.047 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076024.D

Acq: 29 Dec 2022 01:43

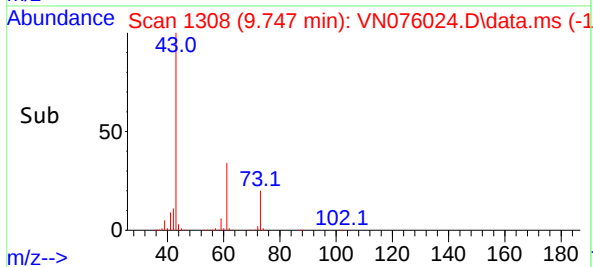
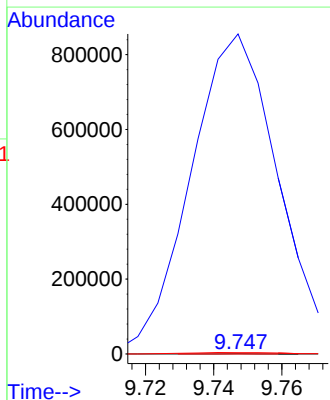
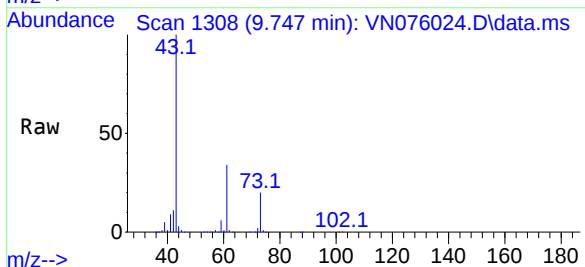
Tgt Ion: 88 Resp: 147

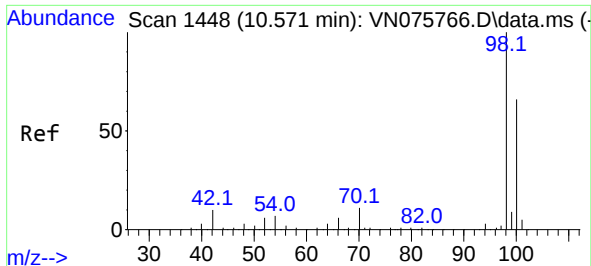
Ion Ratio Lower Upper

88 100

43 1054691.8 17.1 25.7#

58 5136.7 47.8 71.8#

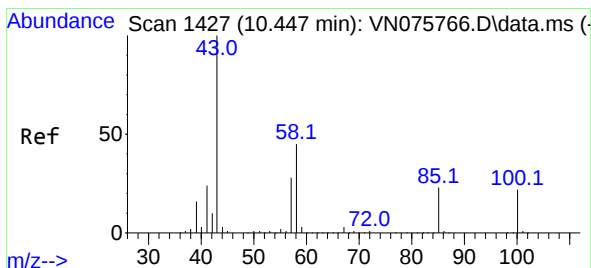
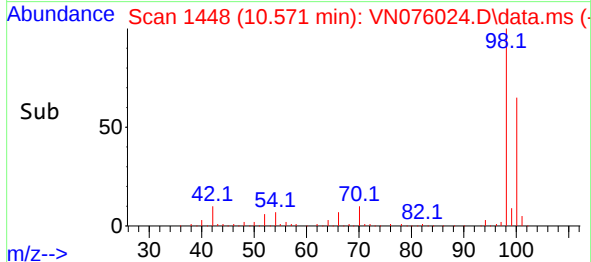
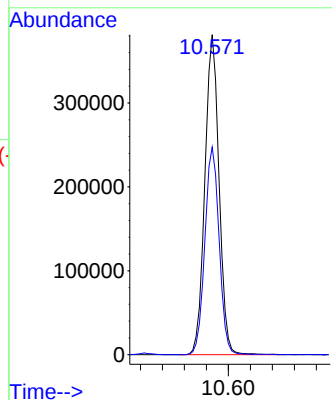
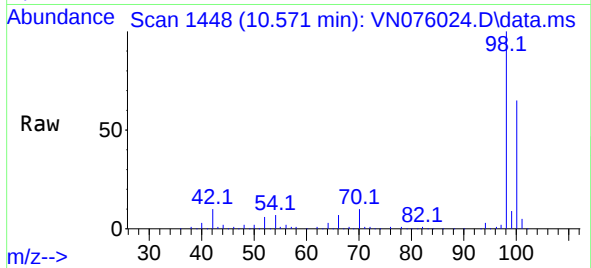




#50
Toluene-d8
Concen: 49.524 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

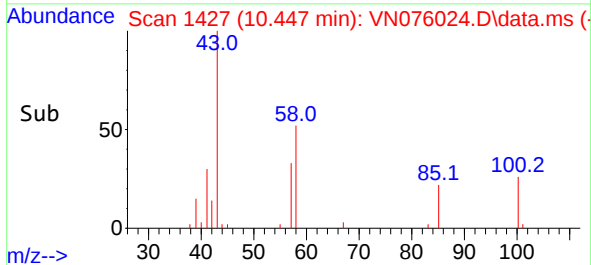
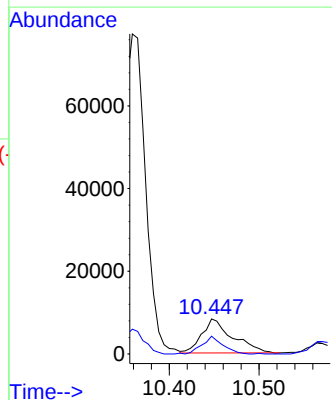
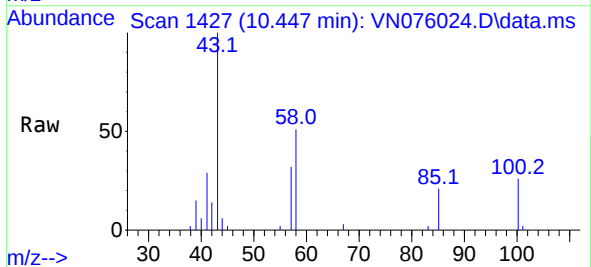
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

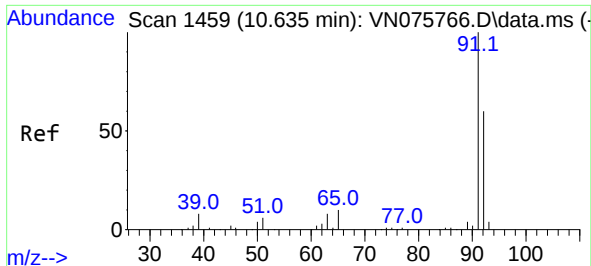
Tgt Ion: 98 Resp: 682323
Ion Ratio Lower Upper
98 100
100 65.5 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 4.989 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 43 Resp: 19570
Ion Ratio Lower Upper
43 100
58 35.1 35.5 53.3#

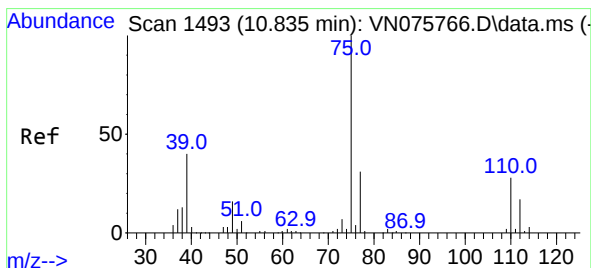
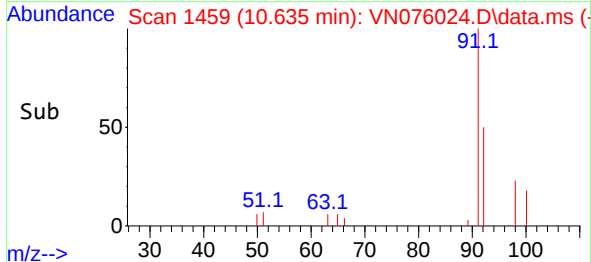
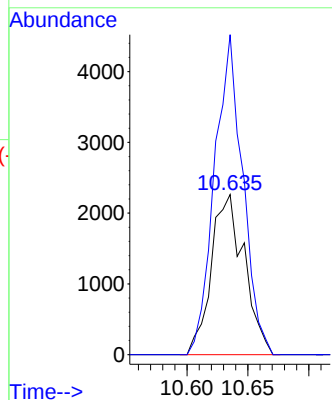
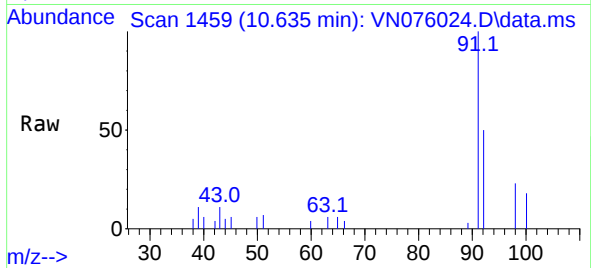




#52
Toluene
Concen: 0.432 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

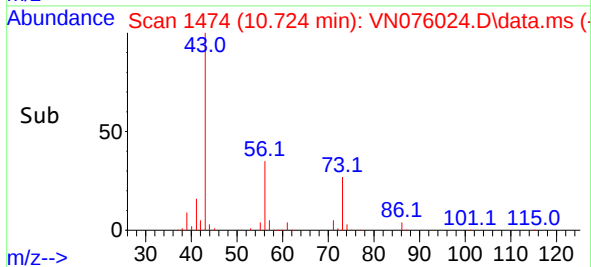
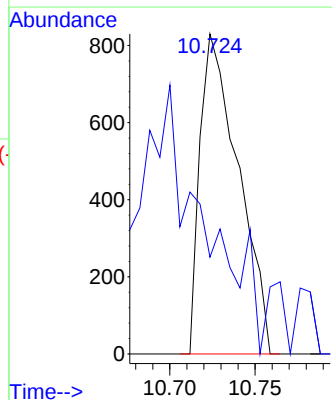
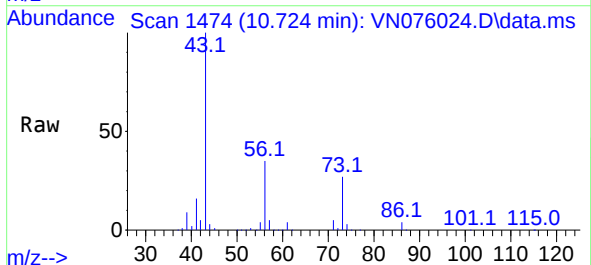
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

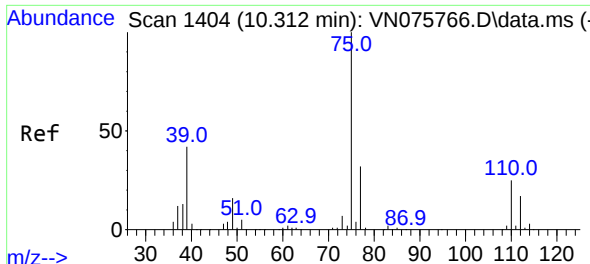
Tgt Ion: 92 Resp: 4248
Ion Ratio Lower Upper
92 100
91 172.5 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.248 ug/l
RT: 10.724 min Scan# 1474
Delta R.T. -0.112 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 75 Resp: 1300
Ion Ratio Lower Upper
75 100
77 7.7 24.9 37.3#

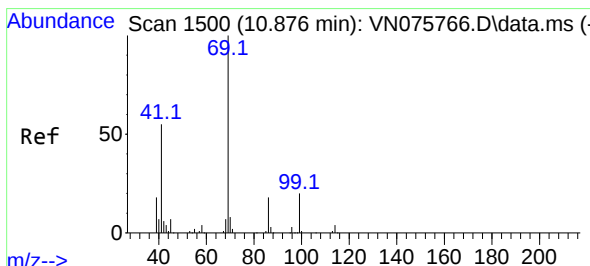
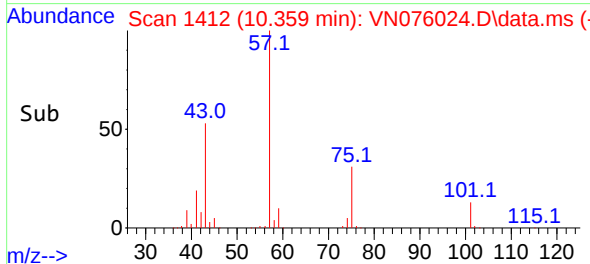
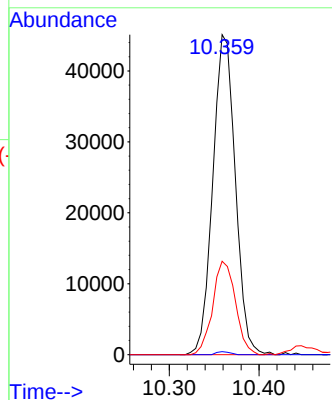
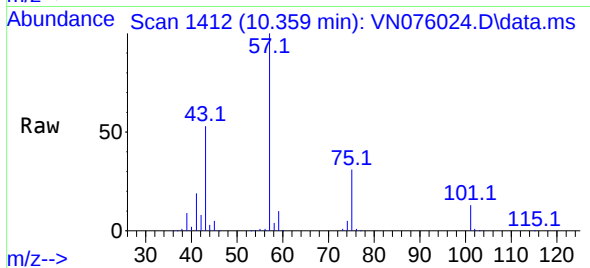




#54
cis-1,3-Dichloropropene
Concen: 13.681 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.047 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

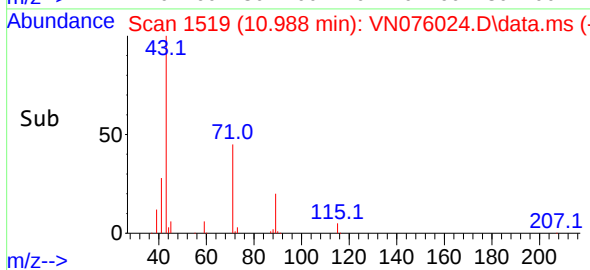
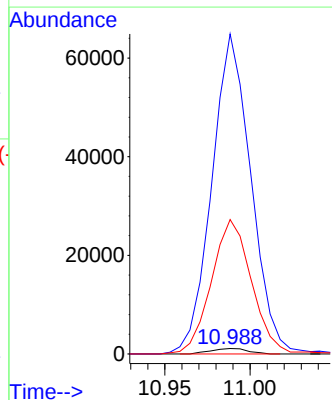
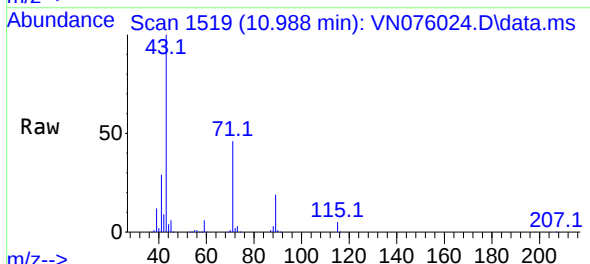
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

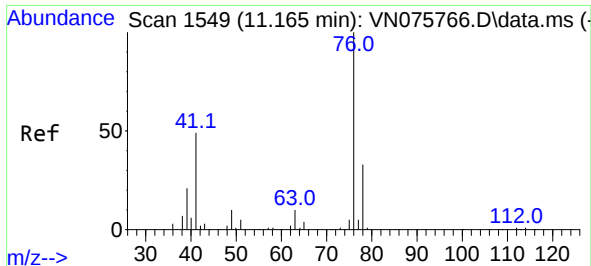
Tgt Ion: 75 Resp: 78599
Ion Ratio Lower Upper
75 100
77 0.9 25.8 38.8#
39 29.2 33.4 50.2#



#56
Ethyl methacrylate
Concen: 0.327 ug/l
RT: 10.988 min Scan# 1519
Delta R.T. 0.112 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 69 Resp: 1677
Ion Ratio Lower Upper
69 100
41 6217.1 44.2 66.4#
39 2676.8 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.604 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN076024.D

Acq: 29 Dec 2022 01:43

Instrument :

MSVOA_N

ClientSampleId :

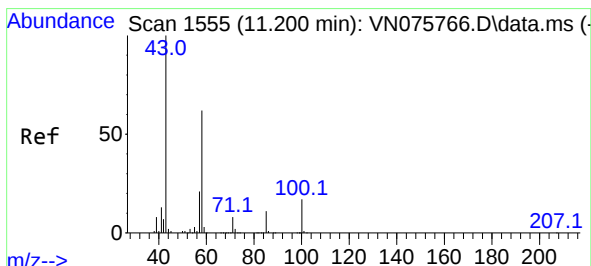
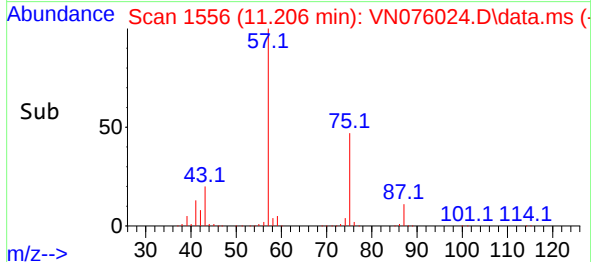
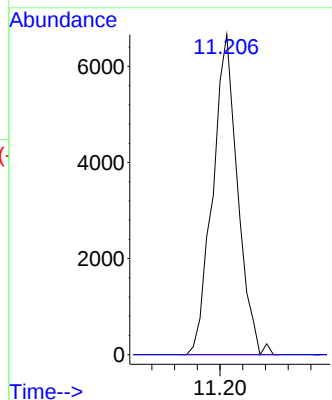
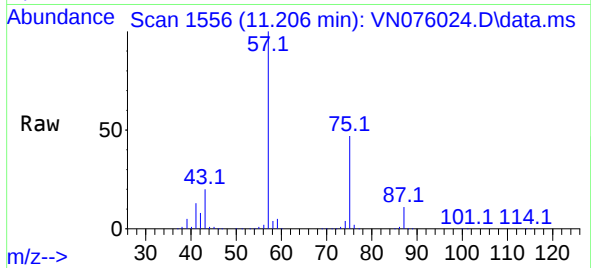
PB149923ZHE#05

Tgt Ion: 76 Resp: 10156

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 52.987 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.029 min

Lab File: VN076024.D

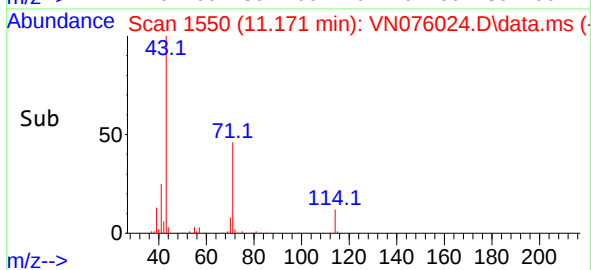
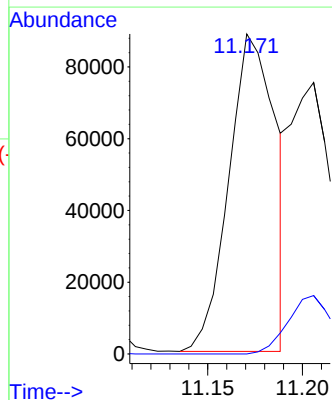
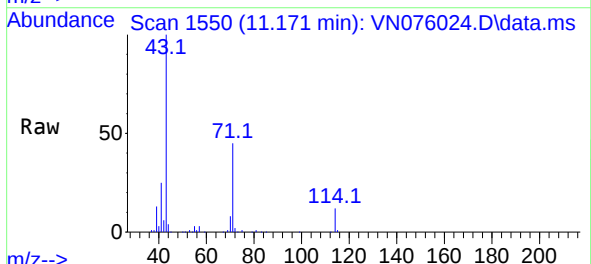
Acq: 29 Dec 2022 01:43

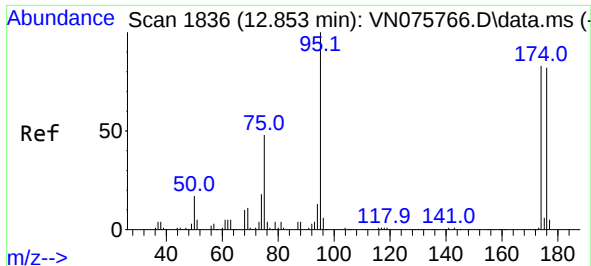
Tgt Ion: 43 Resp: 151571

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

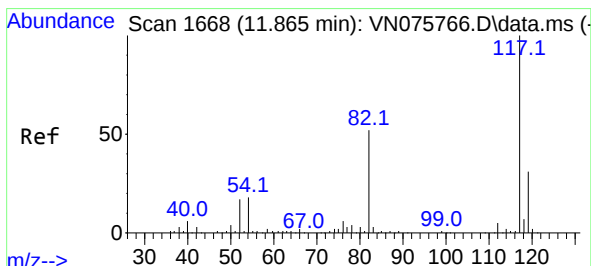
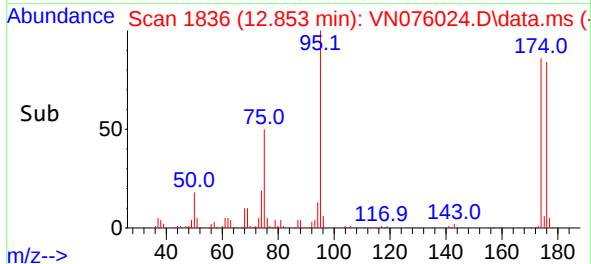
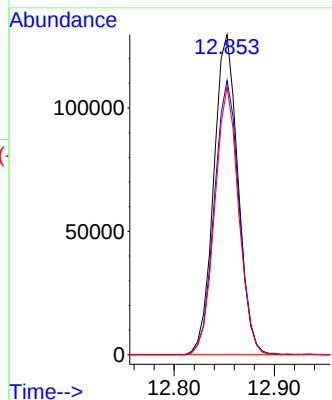
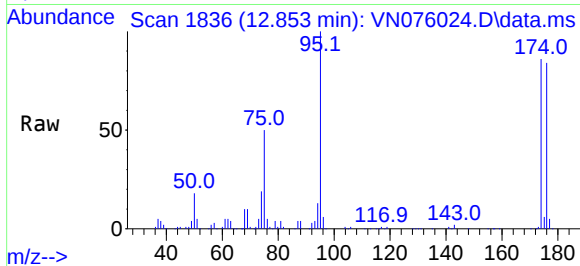




#62
4-Bromofluorobenzene
Concen: 47.674 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

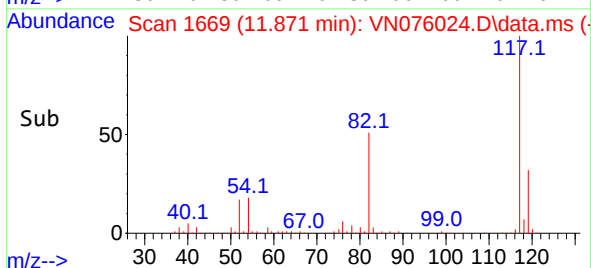
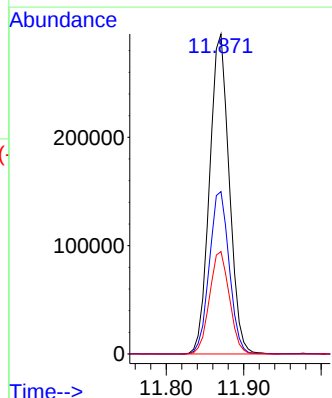
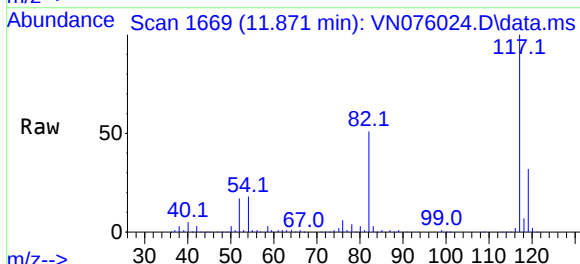
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

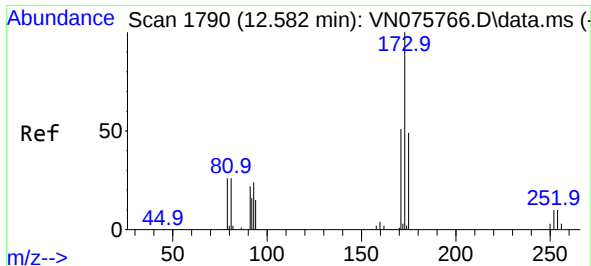
Tgt Ion: 95 Resp: 217547
Ion Ratio Lower Upper
95 100
174 87.2 0.0 171.6
176 82.8 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 117 Resp: 520582
Ion Ratio Lower Upper
117 100
82 50.8 41.3 61.9
119 32.0 24.6 37.0

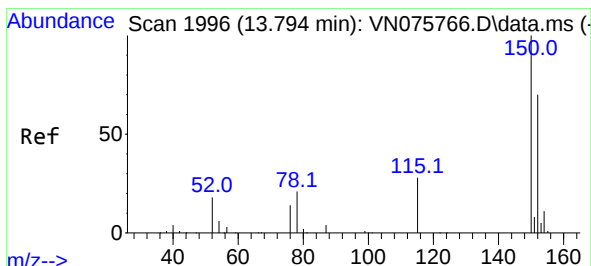
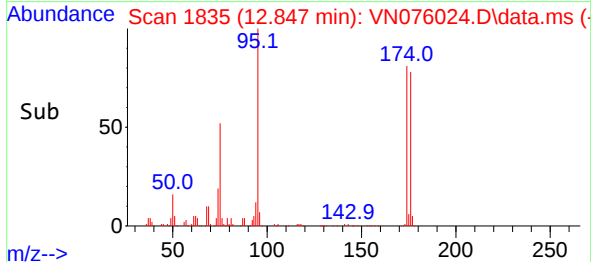
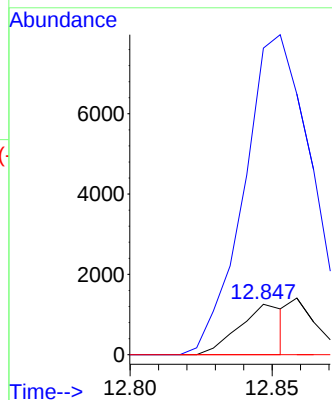
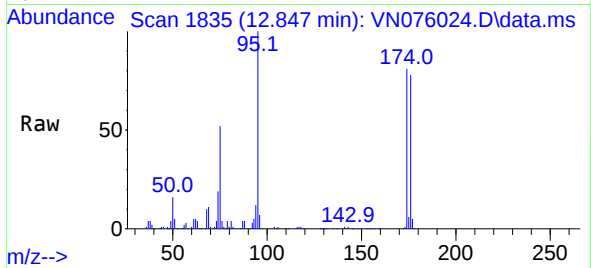




#71
Bromoform
Concen: 0.480 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

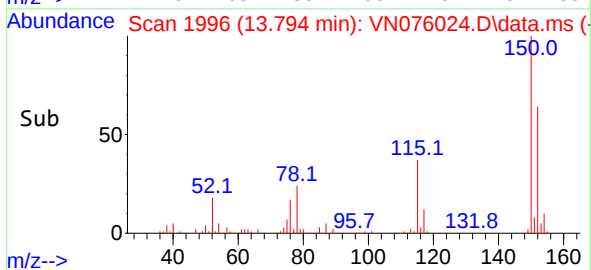
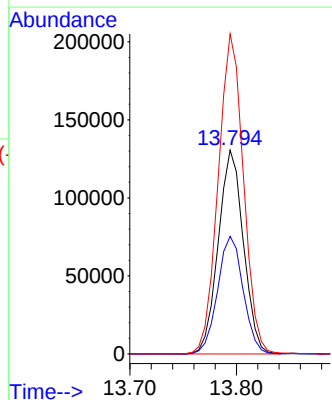
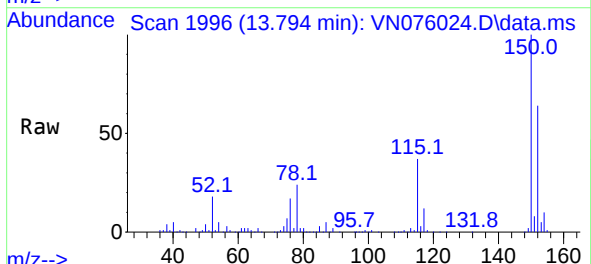
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

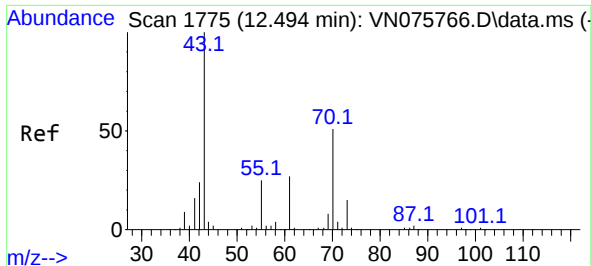
Tgt Ion:173 Resp: 1382
Ion Ratio Lower Upper
173 100
175 767.4 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion:152 Resp: 214084
Ion Ratio Lower Upper
152 100
115 58.5 29.1 87.4
150 157.8 0.0 347.0

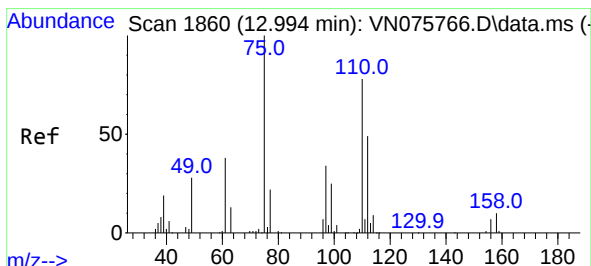
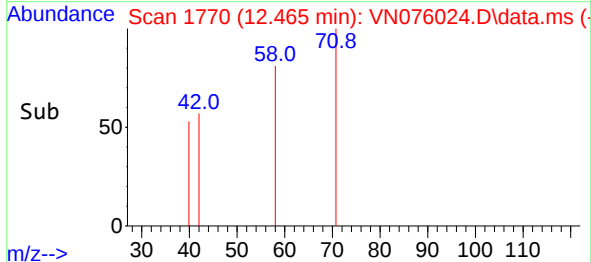
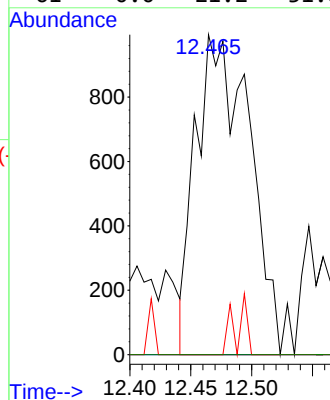
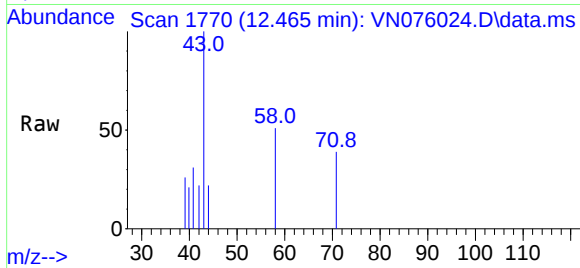




#74
N-amy1 acetate
Concen: 0.671 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

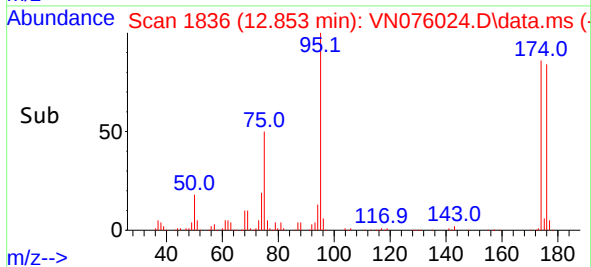
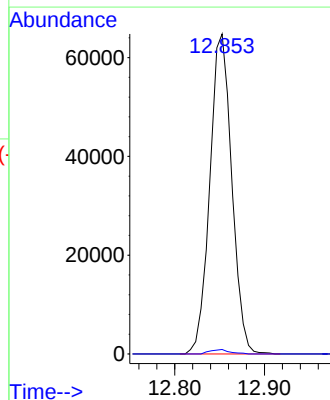
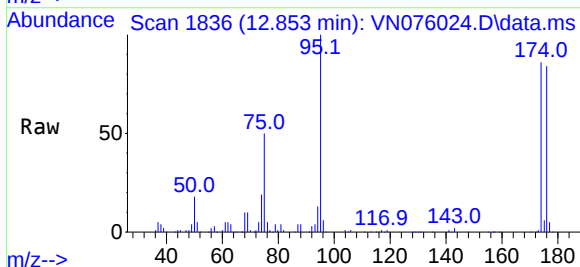
Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

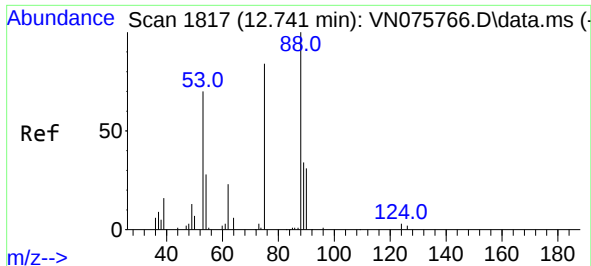
Tgt Ion: 43	Resp: 3047
Ion Ratio	Lower Upper
43 100	
70 0.0	41.4 62.0#
55 0.0	21.3 31.9#
61 0.0	21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 25.508 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion: 75	Resp: 110078
Ion Ratio	Lower Upper
75 100	
77 1.3	82.6 247.8#

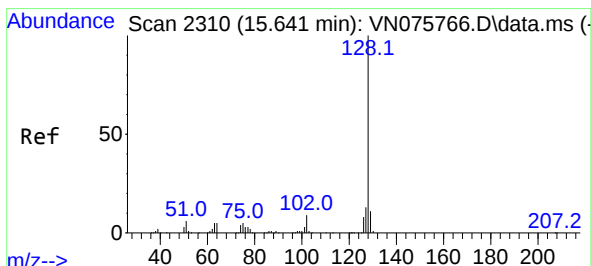
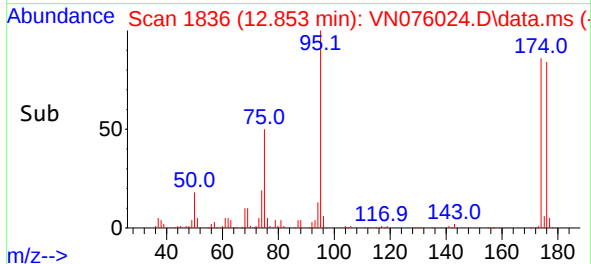
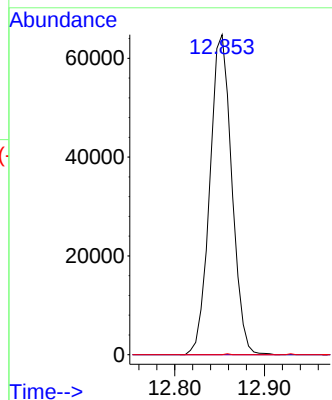
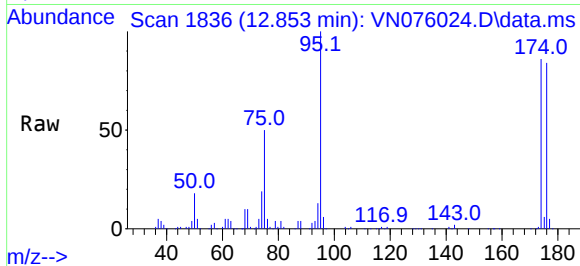




#81
trans-1,4-Dichloro-2-butene
Concen: 91.816 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Instrument :
MSVOA_N
ClientSampleId :
PB149923ZHE#05

Tgt Ion: 75 Resp: 110078
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.1 39.5 59.3#



#95
Naphthalene
Concen: 2.545 ug/l
RT: 15.635 min Scan# 2309
Delta R.T. -0.006 min
Lab File: VN076024.D
Acq: 29 Dec 2022 01:43

Tgt Ion:128 Resp: 4479
Ion Ratio Lower Upper
128 100
127 9.8 10.4 15.6#
129 0.0 8.7 13.1#

