

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091622\
 Data File : VN074521.D
 Acq On : 16 Sep 2022 19:39
 Operator : JC\MD
 Sample : N4628-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HW-54

Quant Time: Sep 16 22:35:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091522W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 15 19:20:33 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.016	168	313430	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	607195	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	599268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	275547	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	249357	46.888	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.780%
35) Dibromofluoromethane	7.951	113	206133	51.105	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.220%
50) Toluene-d8	10.381	98	758388	48.618	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.240%
62) 4-Bromofluorobenzene	12.675	95	292618	54.771	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.540%

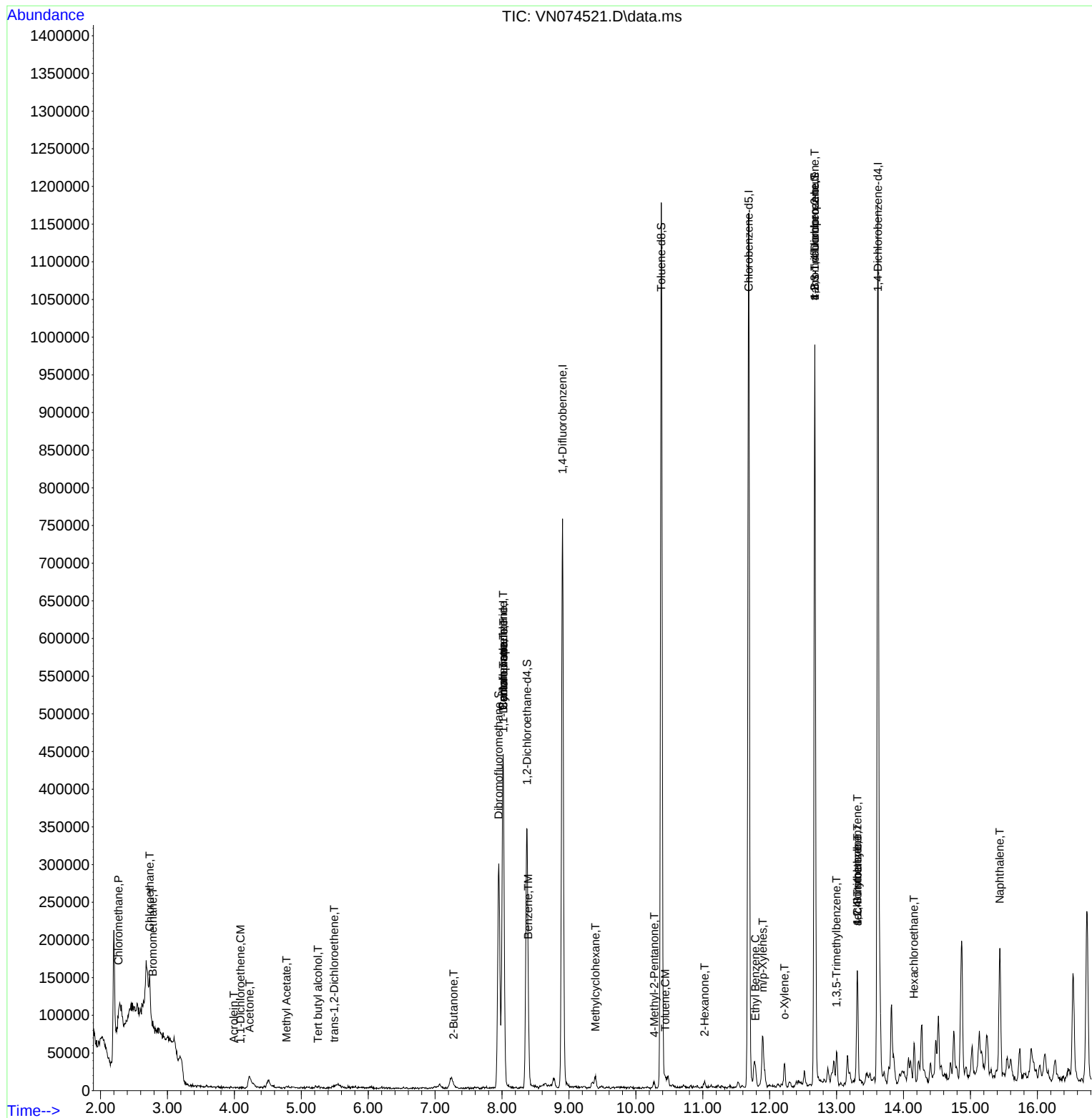
Target Compounds						Qvalue
3) Chloromethane	2.269	50	1990	0.603	ug/l #	72
5) Bromomethane	2.781	94	725	0.224	ug/l #	2
6) Chloroethane	2.734	64	18934	4.514	ug/l #	54
11) Tert butyl alcohol	5.252	59	1274	0.735	ug/l #	72
12) 1,1-Dichloroethene	4.093	96	211	0.735	ug/l #	1
13) Acrolein	3.993	56	449	0.710	ug/l #	37
16) Acetone	4.228	43	30555	8.979	ug/l #	84
18) Methyl Acetate	4.781	43	3272	0.310	ug/l	100
21) trans-1,2-Dichloroethene	5.493	96	53	0.441	ug/l #	1
25) 2-Butanone	7.275	43	12590	2.228	ug/l #	77
28) Bromochloromethane	7.469	49	62	Below Cal	#	1
31) Cyclohexane	8.016	56	14010	1.484	ug/l #	47
36) 1,1-Dichloropropene	8.022	75	31474	4.408	ug/l #	47
38) Carbon Tetrachloride	8.016	117	35791	5.430	ug/l #	15
39) Methylcyclohexane	9.398	83	5259	0.619	ug/l #	84
40) Benzene	8.393	78	29087	1.318	ug/l	98
51) 4-Methyl-2-Pentanone	10.275	43	5651	0.501	ug/l #	79
52) Toluene	10.440	92	4135	0.319	ug/l	89
59) 2-Hexanone	11.028	43	7874	0.915	ug/l	76
67) Ethyl Benzene	11.786	91	12700	0.460	ug/l	90
68) m/p-Xylenes	11.898	106	20221	1.980	ug/l	93
69) o-Xylene	12.222	106	6889	0.662	ug/l	91
76) 1,2,3-Trichloropropane	12.675	75	174670	20.594	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.998	105	14892	0.647	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.675	75	174670	44.449	ug/l #	11
82) 4-Chlorotoluene	13.310	91	6905	0.362	ug/l	72
84) 1,2,4-Trimethylbenzene	13.310	105	77602	3.353	ug/l	96
85) sec-Butylbenzene	13.310	105	77602	2.700	ug/l #	56
90) Hexachloroethane	14.157	117	3316	0.680	ug/l #	9
95) Naphthalene	15.439	128	147295	7.636	ug/l	98

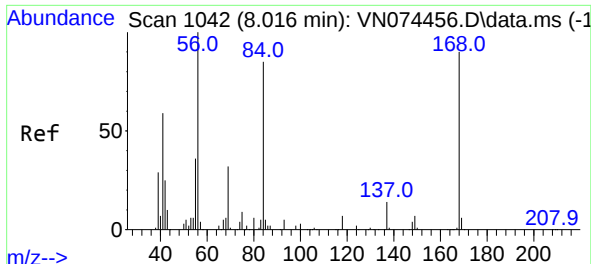
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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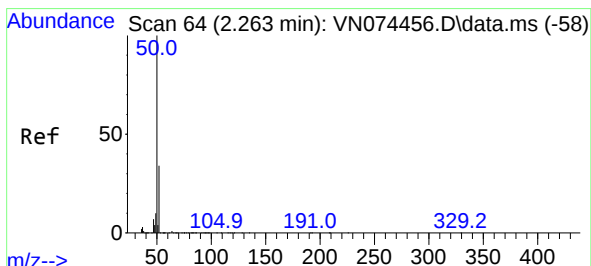
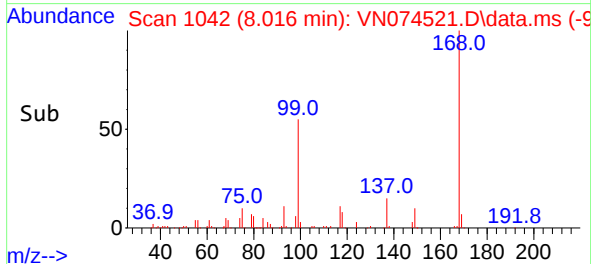
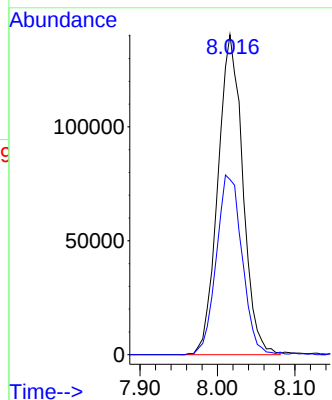
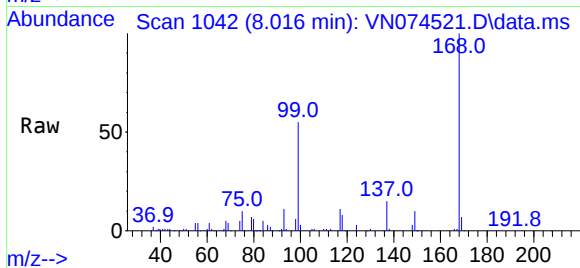




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

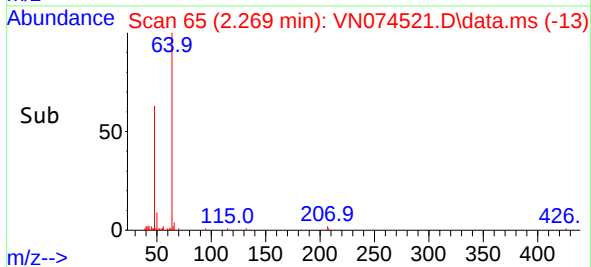
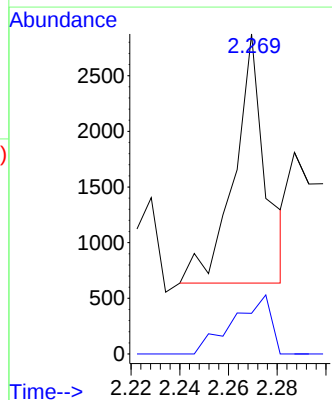
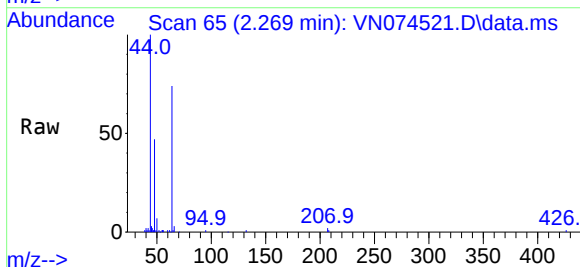
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MSVOA_N
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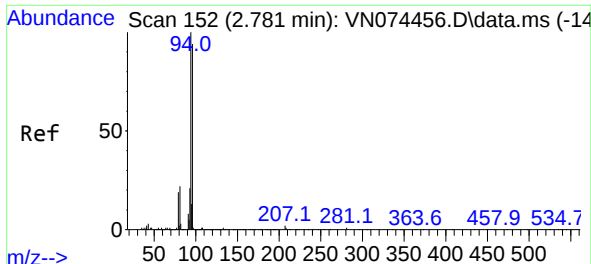
Tgt Ion:168 Resp: 313430
Ion Ratio Lower Upper
168 100
99 54.8 42.3 63.5



#3
Chloromethane
Concen: 0.603 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 50 Resp: 1990
Ion Ratio Lower Upper
50 100
52 16.4 25.7 38.5#

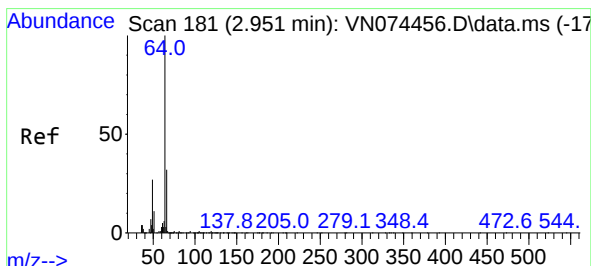
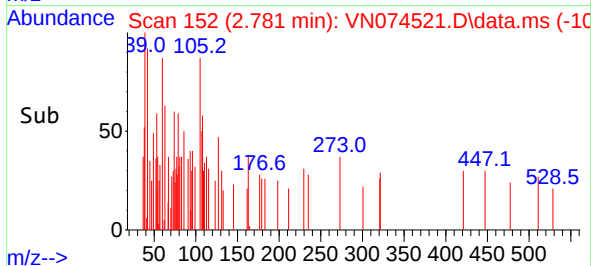
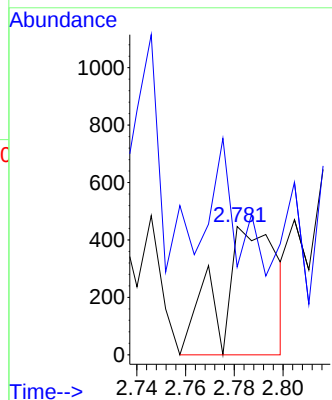
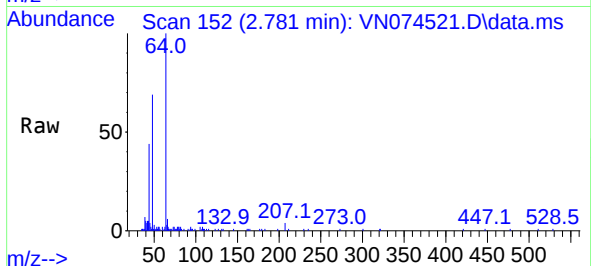




#5
Bromomethane
Concen: 0.224 ug/l
RT: 2.781 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

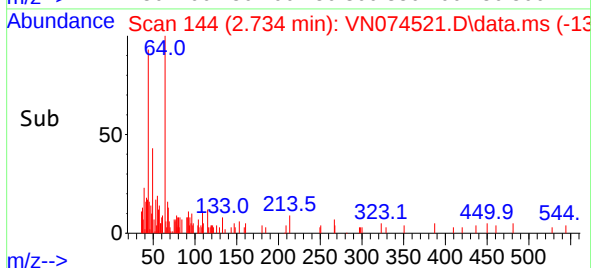
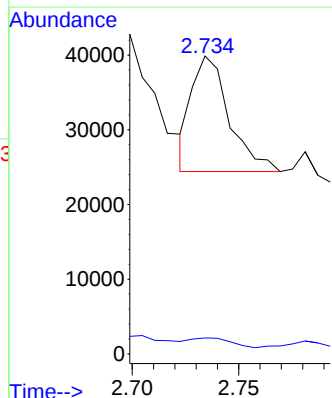
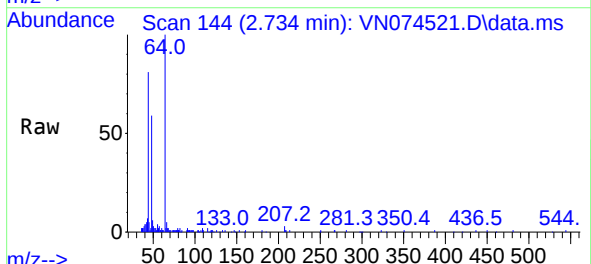
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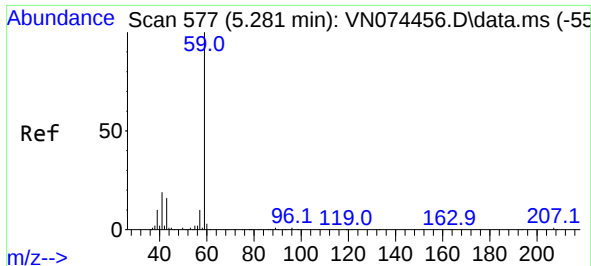
Tgt Ion: 94 Resp: 725
Ion Ratio Lower Upper
94 100
96 0.0 76.0 114.0#



#6
Chloroethane
Concen: 4.514 ug/l
RT: 2.734 min Scan# 144
Delta R.T. -0.217 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 64 Resp: 18934
Ion Ratio Lower Upper
64 100
66 6.9 26.2 39.4#





#11

Tert butyl alcohol

Concen: 0.735 ug/l

RT: 5.252 min Scan# 51

Delta R.T. -0.029 min

Lab File: VN074521.D

Acq: 16 Sep 2022 19:39

Instrument :

MSVOA_N

ClientSampleId :

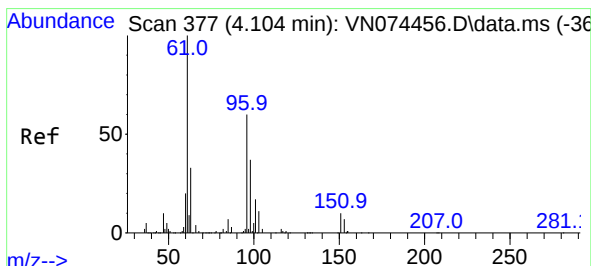
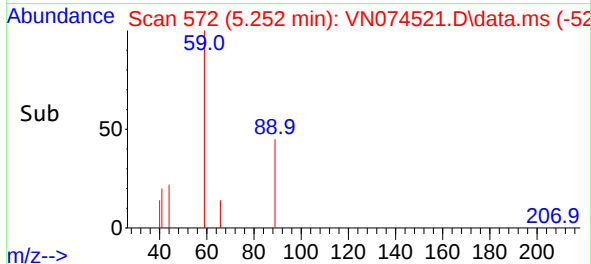
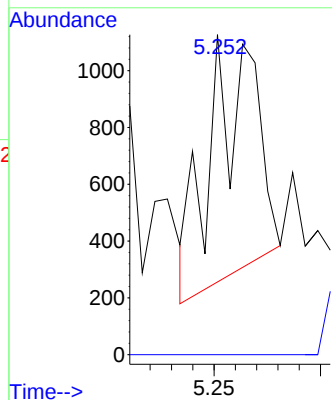
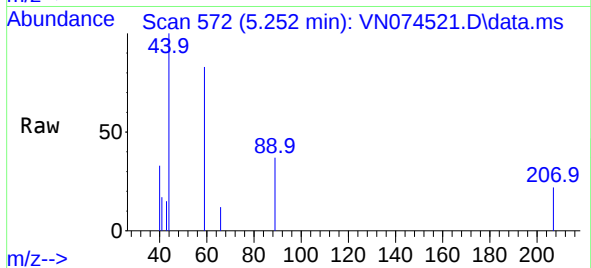
HW-54

Tgt Ion: 59 Resp: 1274

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#12

1,1-Dichloroethene

Concen: 0.735 ug/l

RT: 4.093 min Scan# 375

Delta R.T. -0.011 min

Lab File: VN074521.D

Acq: 16 Sep 2022 19:39

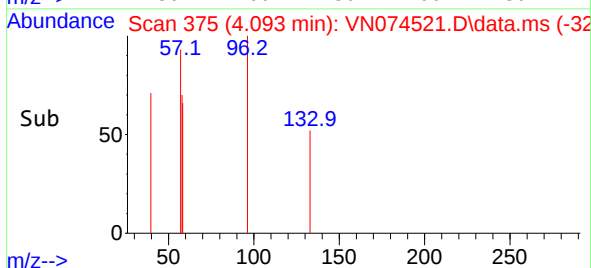
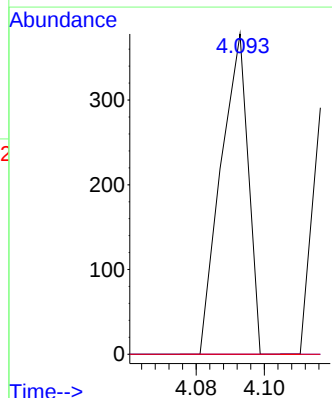
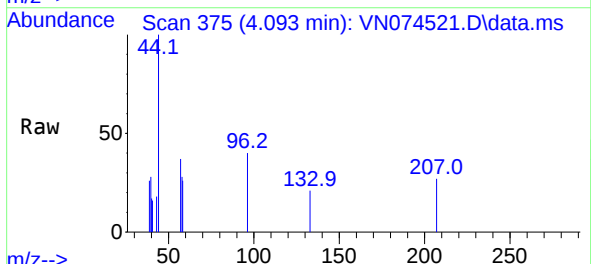
Tgt Ion: 96 Resp: 211

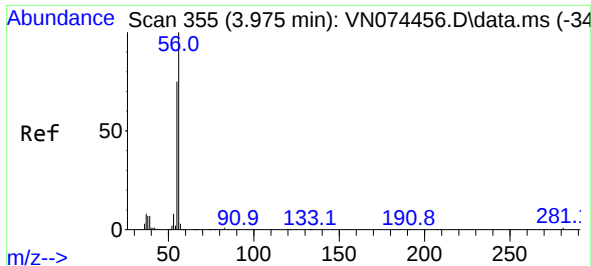
Ion Ratio Lower Upper

96 100

61 0.0 127.6 191.4#

98 0.0 51.2 76.8#

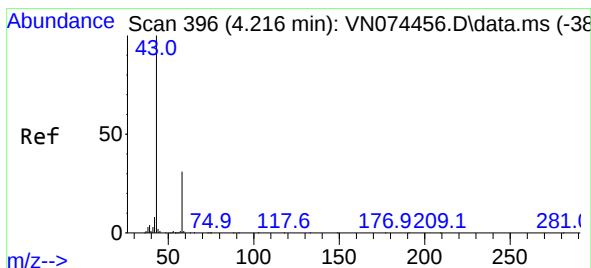
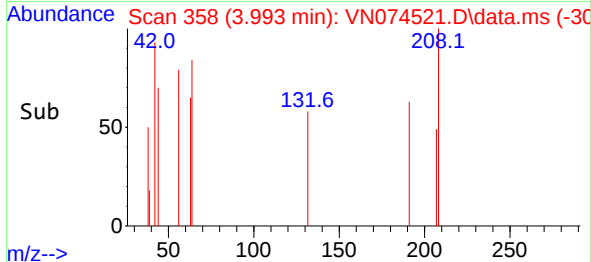
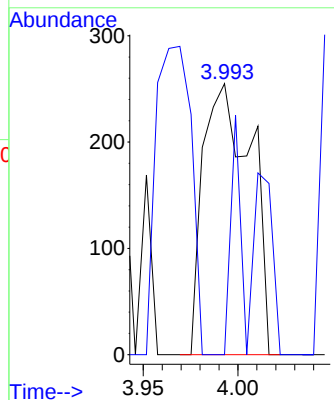
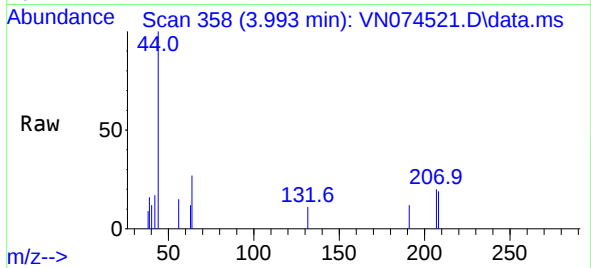




#13
Acrolein
Concen: 0.710 ug/l
RT: 3.993 min Scan# 31
Delta R.T. 0.018 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

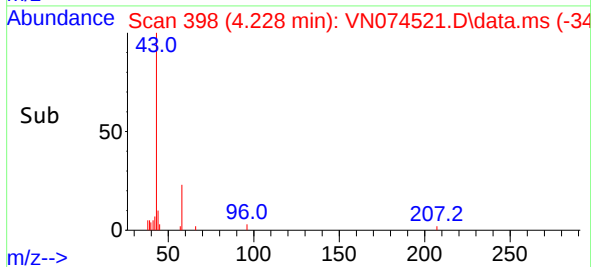
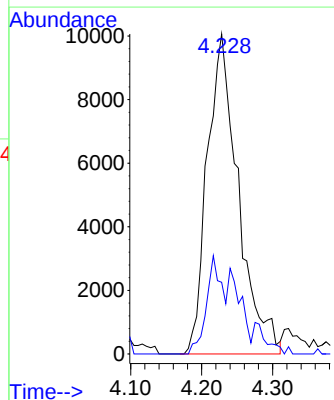
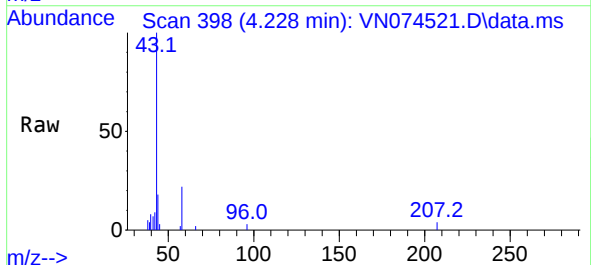
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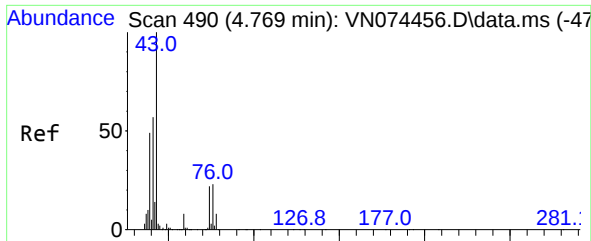
Tgt Ion: 56 Resp: 449
Ion Ratio Lower Upper
56 100
55 17.6 54.8 82.2#



#16
Acetone
Concen: 8.979 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.012 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 43 Resp: 30555
Ion Ratio Lower Upper
43 100
58 23.3 26.0 39.0#

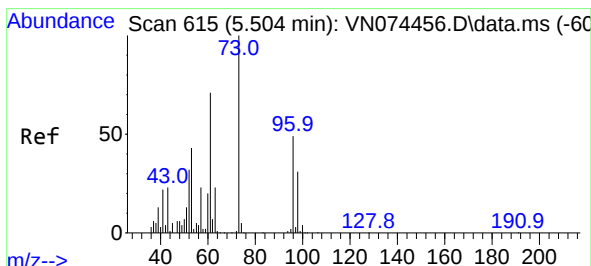
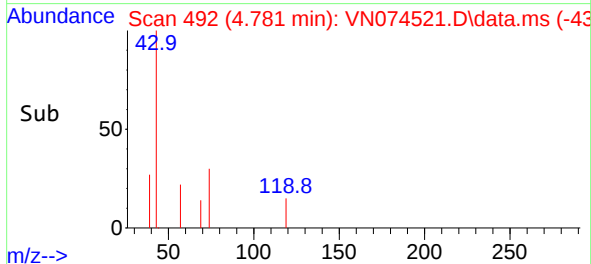
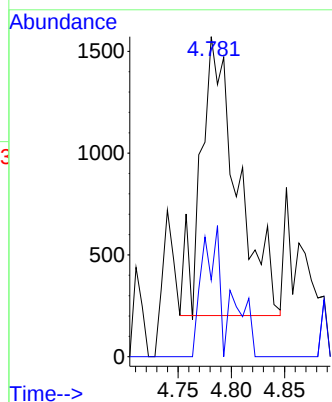
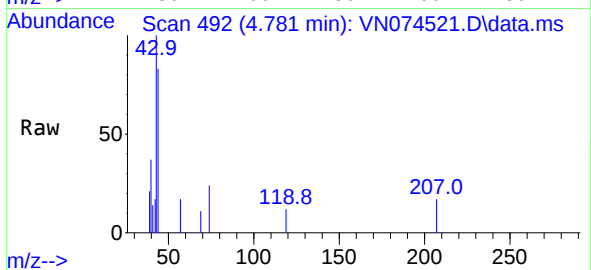




#18
Methyl Acetate
Concen: 0.310 ug/l
RT: 4.781 min Scan# 491
Delta R.T. 0.012 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

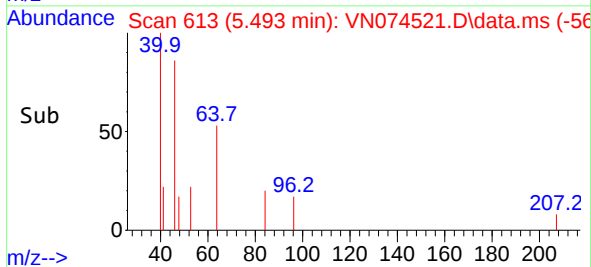
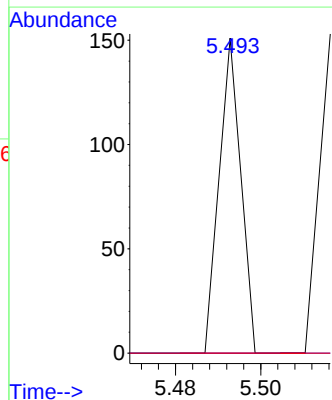
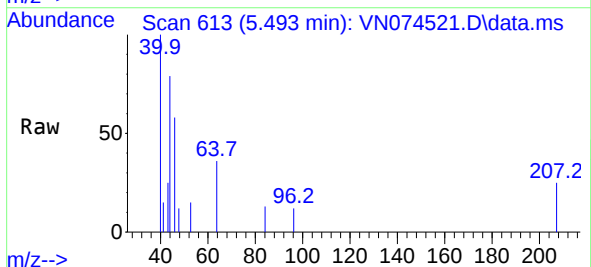
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ClientSampleId :
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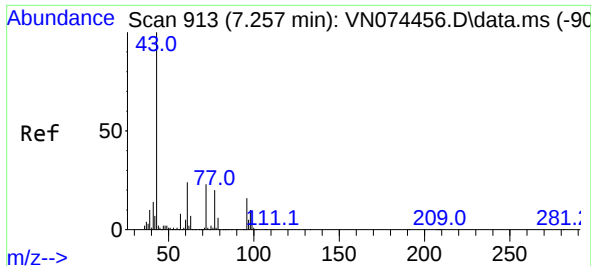
Tgt Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
74 27.1 21.6 32.4



#21
trans-1,2-Dichloroethene
Concen: 0.441 ug/l
RT: 5.493 min Scan# 613
Delta R.T. -0.011 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 96 Resp: 53
Ion Ratio Lower Upper
96 100
61 0.0 105.8 158.8#
98 0.0 50.3 75.5#

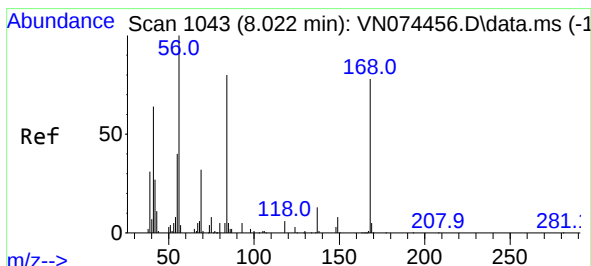
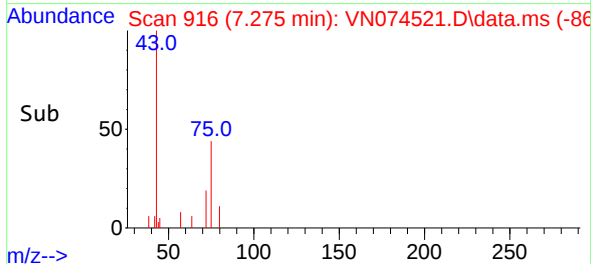
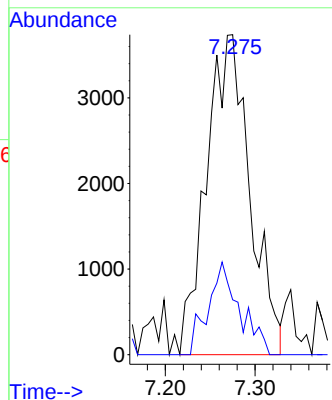
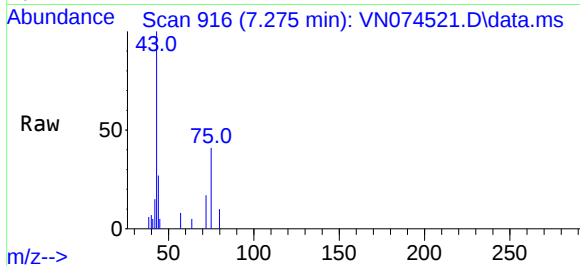




#25
2-Butanone
Concen: 2.228 ug/l
RT: 7.275 min Scan# 913
Delta R.T. 0.018 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

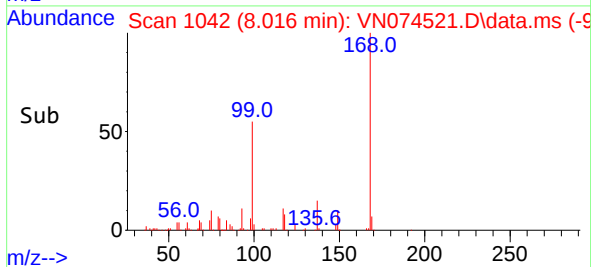
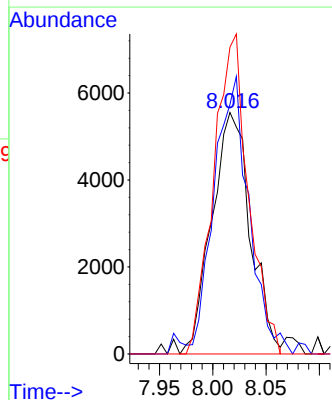
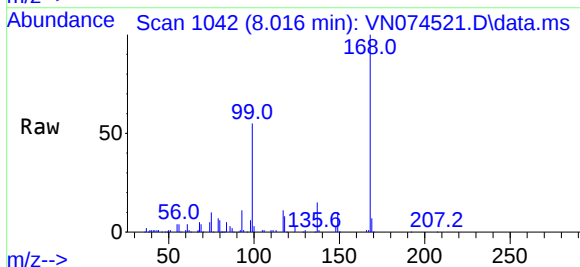
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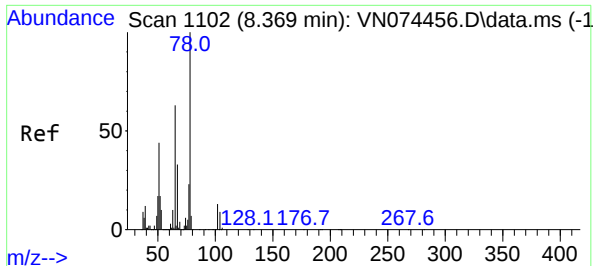
Tgt Ion: 43 Resp: 12590
Ion Ratio Lower Upper
43 100
72 17.2 23.7 35.5#



#31
Cyclohexane
Concen: 1.484 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 56 Resp: 14010
Ion Ratio Lower Upper
56 100
69 98.7 27.8 41.8#
84 127.1 76.9 115.3#

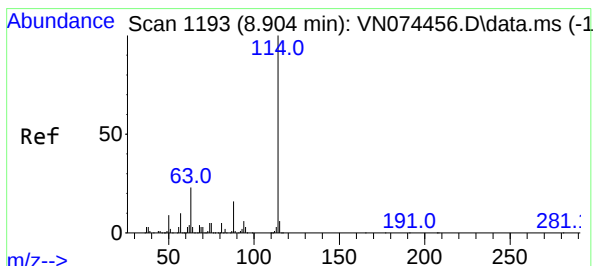
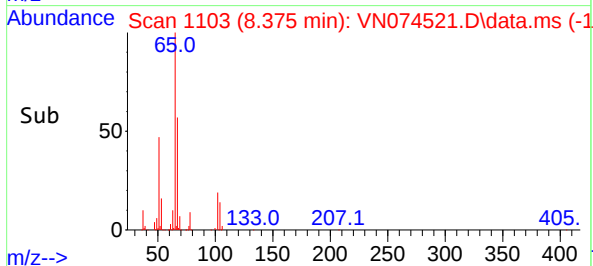
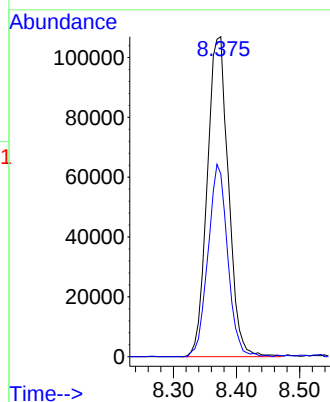
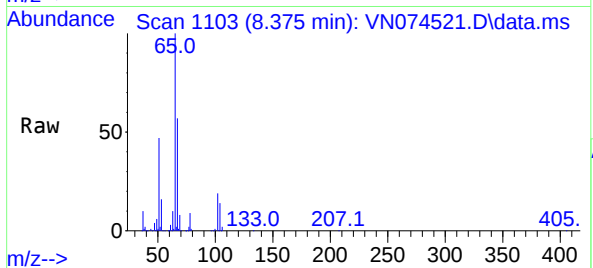




#33
1,2-Dichloroethane-d4
Concen: 46.888 ug/l
RT: 8.375 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

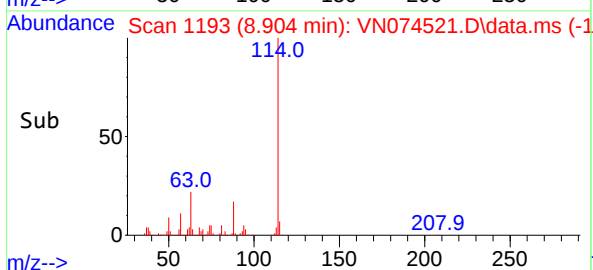
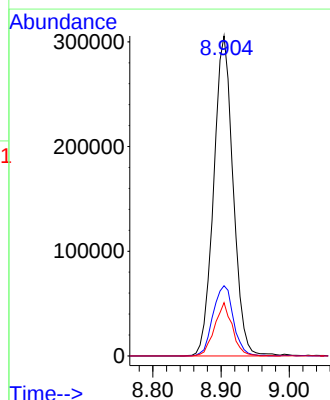
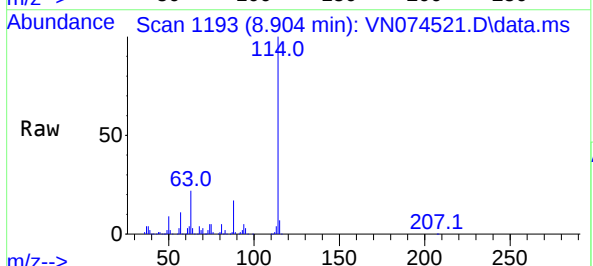
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ClientSampleId :
HW-54

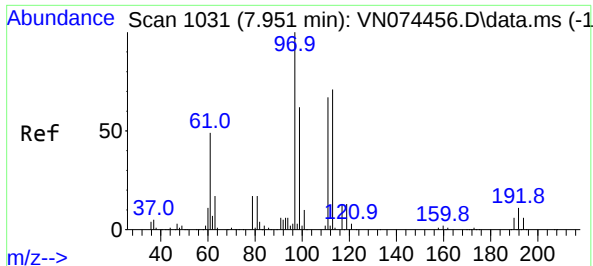
Tgt Ion: 65 Resp: 249357
Ion Ratio Lower Upper
65 100
67 55.8 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 114 Resp: 607195
Ion Ratio Lower Upper
114 100
63 22.0 0.0 40.0
88 16.6 0.0 32.6

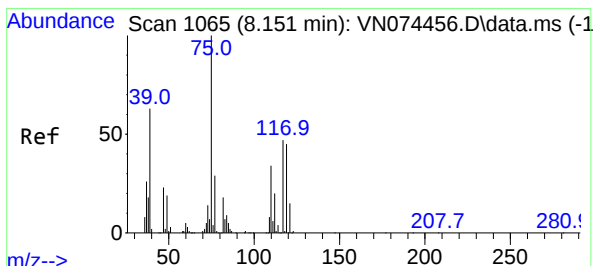
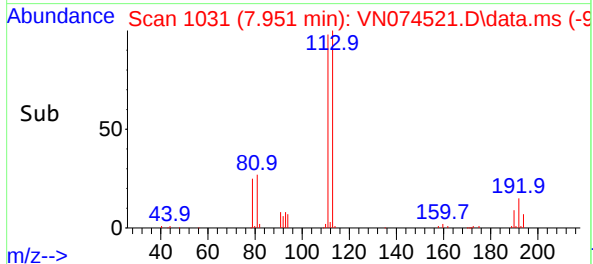
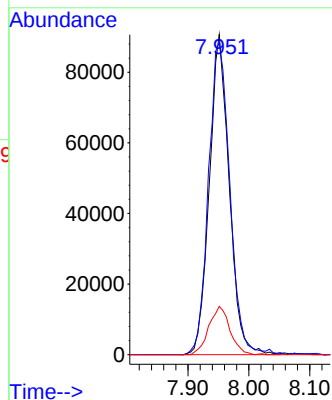
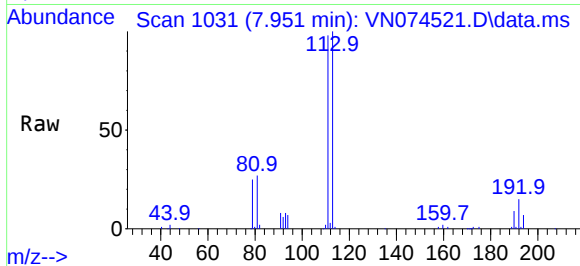




#35
Dibromofluoromethane
Concen: 51.105 ug/l
RT: 7.951 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

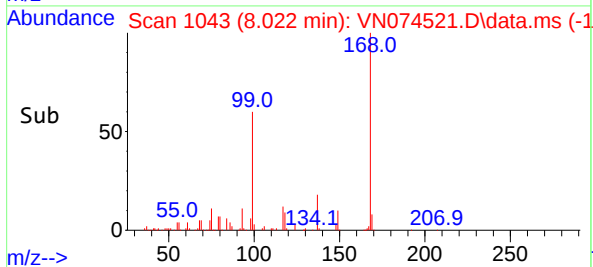
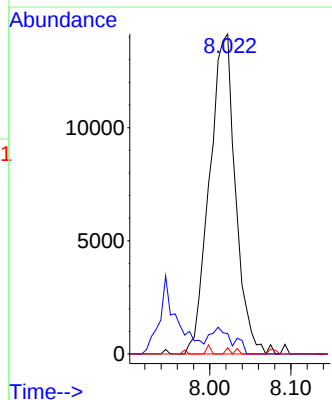
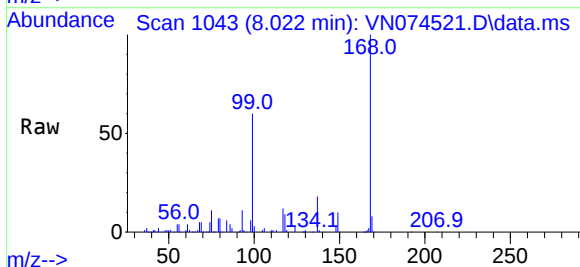
Instrument :
MSVOA_N
ClientSampleId :
HW-54

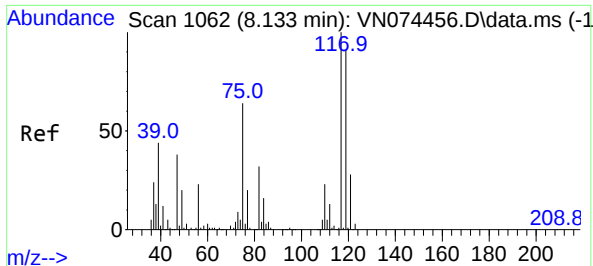
Tgt Ion:113 Resp: 206133
Ion Ratio Lower Upper
113 100
111 104.6 81.4 122.0
192 16.0 17.0 25.6#



#36
1,1-Dichloropropene
Concen: 4.408 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.129 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 75 Resp: 31474
Ion Ratio Lower Upper
75 100
110 7.2 18.3 54.8#
77 0.0 25.1 37.7#

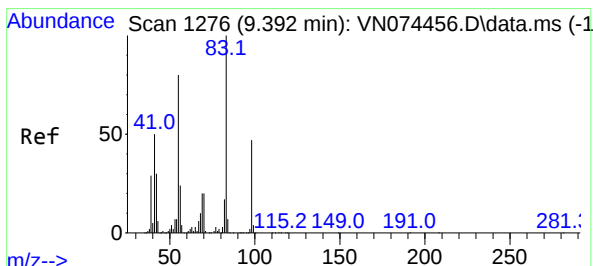
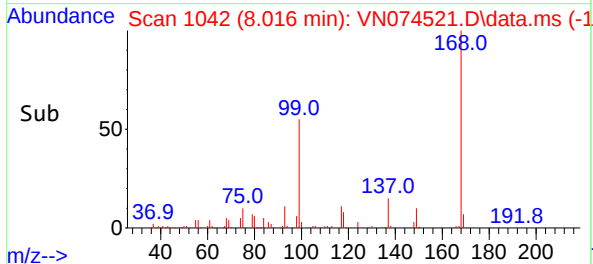
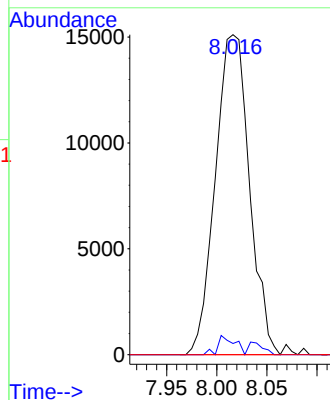
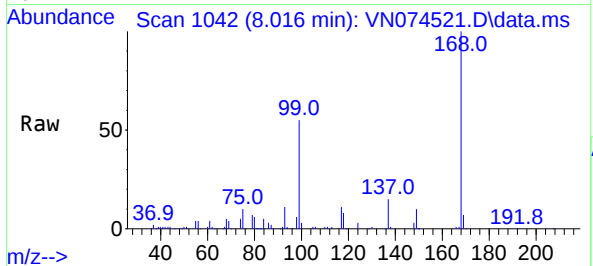




#38
Carbon Tetrachloride
Concen: 5.430 ug/l
RT: 8.016 min Scan# 117
Delta R.T. -0.117 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

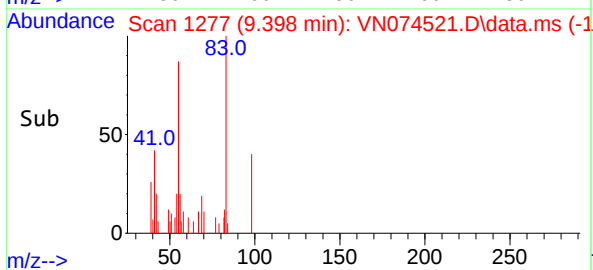
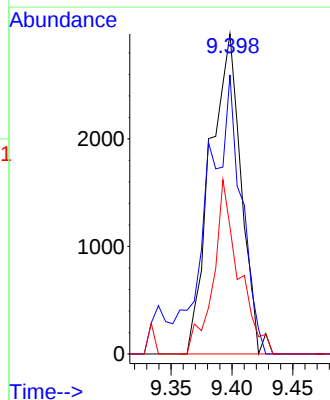
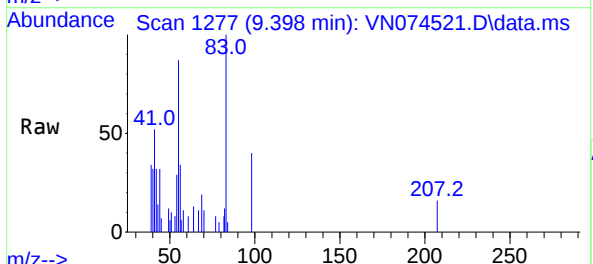
Instrument :
MSVOA_N
ClientSampleId :
HW-54

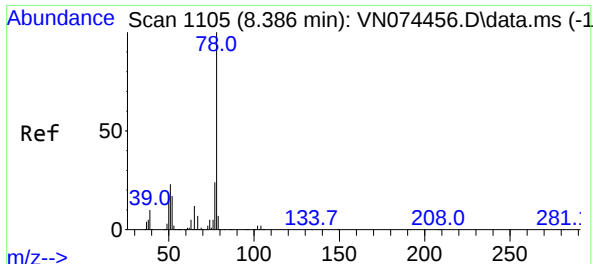
Tgt Ion:117 Resp: 35791
Ion Ratio Lower Upper
117 100
119 3.5 75.8 113.8#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 0.619 ug/l
RT: 9.398 min Scan# 1277
Delta R.T. 0.006 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 83 Resp: 5259
Ion Ratio Lower Upper
83 100
55 87.2 57.8 86.8#
98 39.7 39.4 59.2

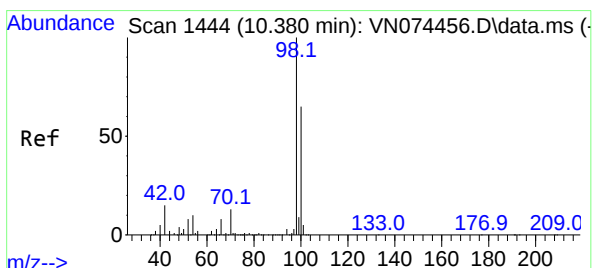
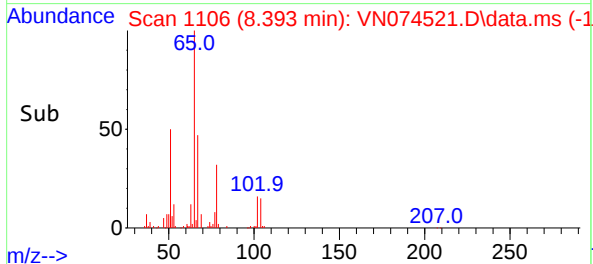
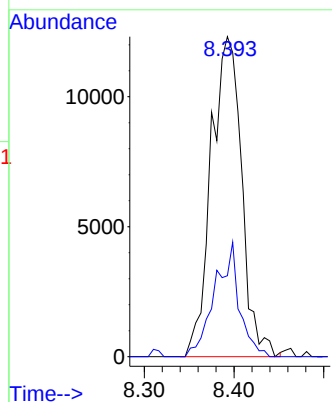
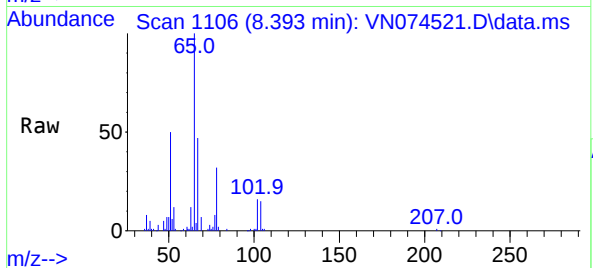




#40
Benzene
Concen: 1.318 ug/l
RT: 8.393 min Scan# 1105
Delta R.T. 0.007 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

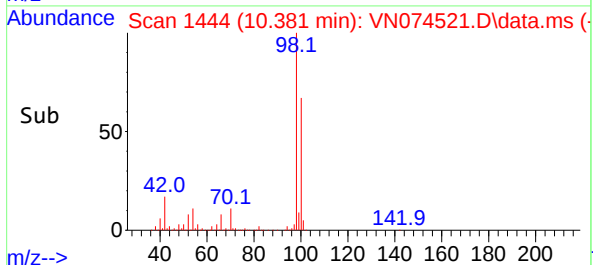
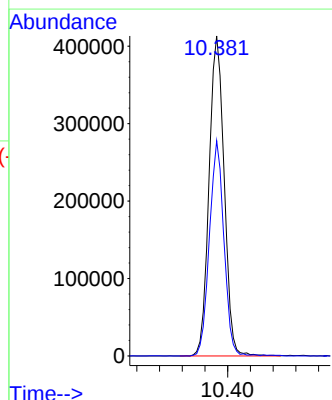
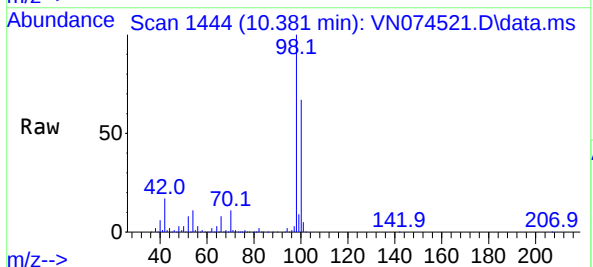
Instrument :
MSVOA_N
ClientSampleId :
HW-54

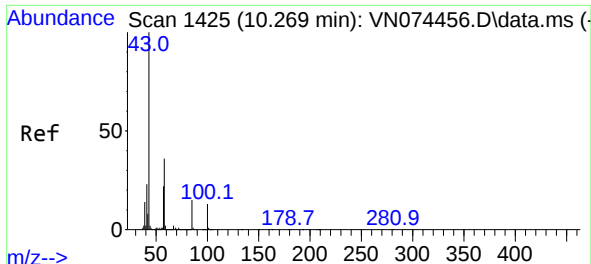
Tgt Ion: 78 Resp: 29087
Ion Ratio Lower Upper
78 100
77 25.3 19.4 29.0



#50
Toluene-d8
Concen: 48.618 ug/l
RT: 10.381 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 98 Resp: 758388
Ion Ratio Lower Upper
98 100
100 64.7 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 0.501 ug/l

RT: 10.275 min Scan# 1425

Delta R.T. 0.006 min

Lab File: VN074521.D

Acq: 16 Sep 2022 19:39

Instrument :

MSVOA_N

ClientSampleId :

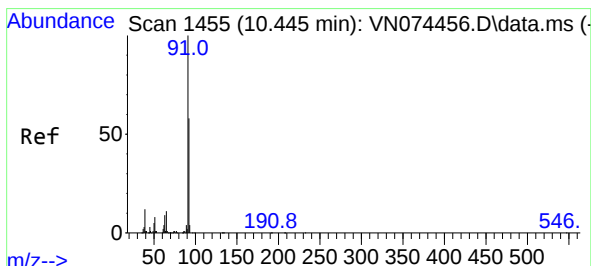
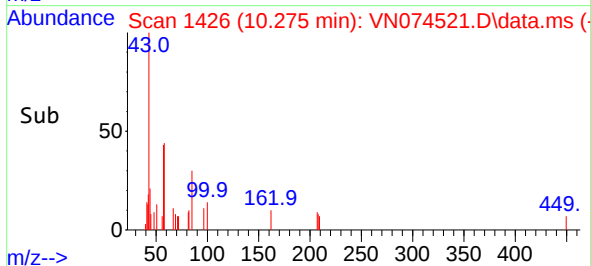
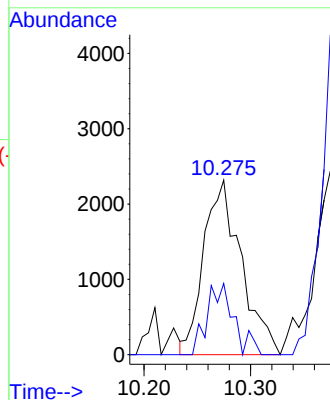
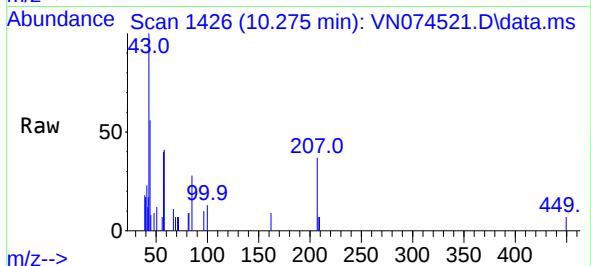
HW-54

Tgt Ion: 43 Resp: 5651

Ion Ratio Lower Upper

43 100

58 29.3 34.1 51.1#



#52

Toluene

Concen: 0.319 ug/l

RT: 10.440 min Scan# 1454

Delta R.T. -0.005 min

Lab File: VN074521.D

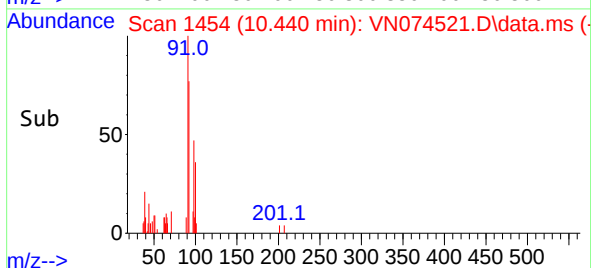
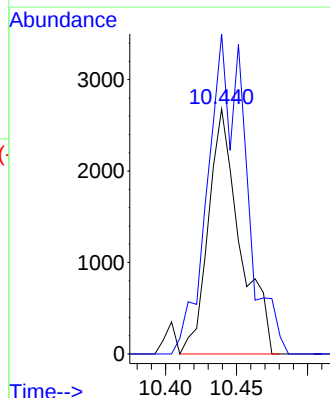
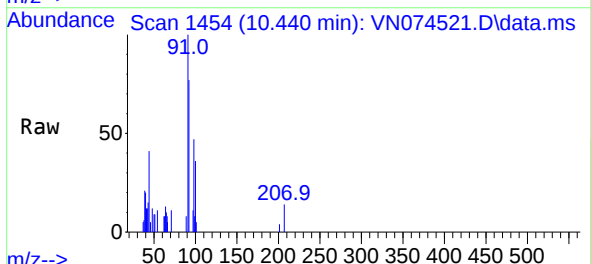
Acq: 16 Sep 2022 19:39

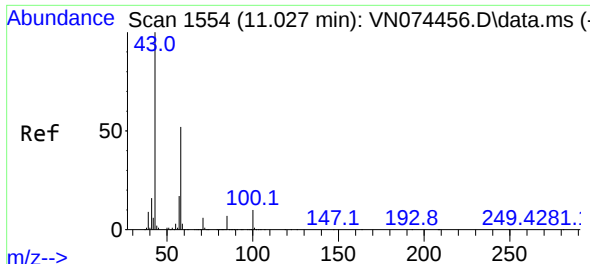
Tgt Ion: 92 Resp: 4135

Ion Ratio Lower Upper

92 100

91 158.2 138.6 207.8

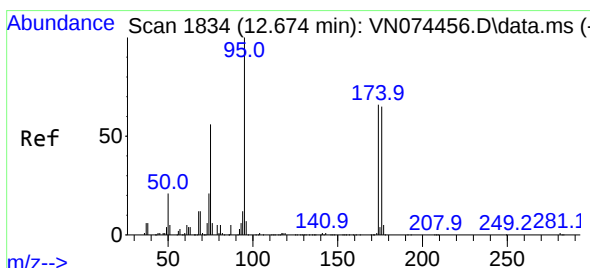
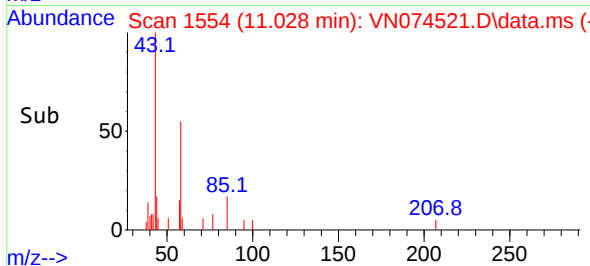
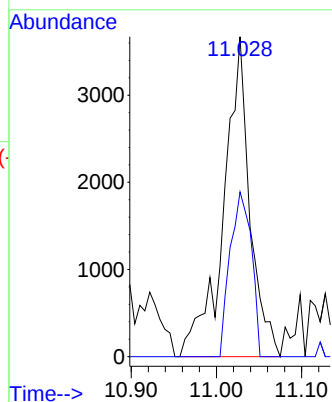
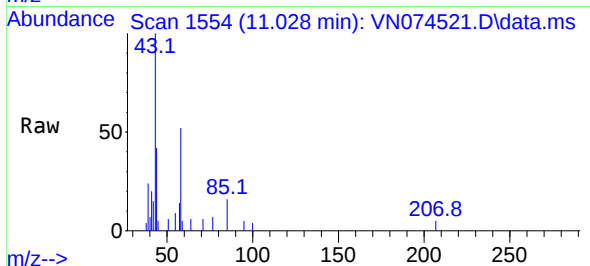




#59
2-Hexanone
Concen: 0.915 ug/l
RT: 11.028 min Scan# 1154
Delta R.T. 0.001 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

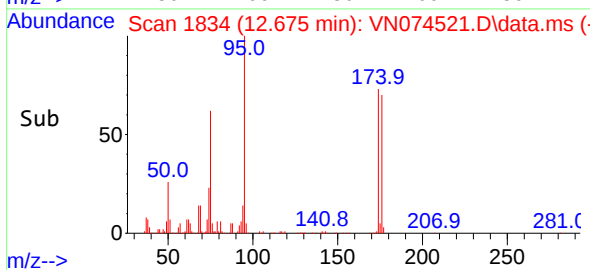
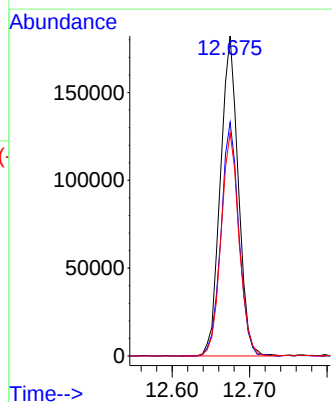
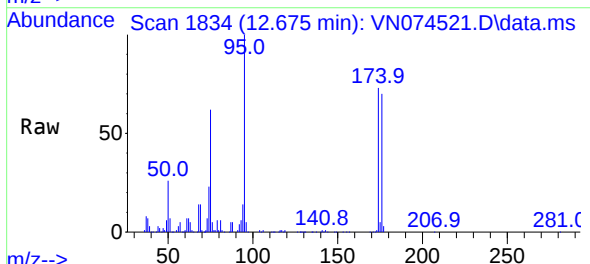
Instrument :
MSVOA_N
ClientSampleId :
HW-54

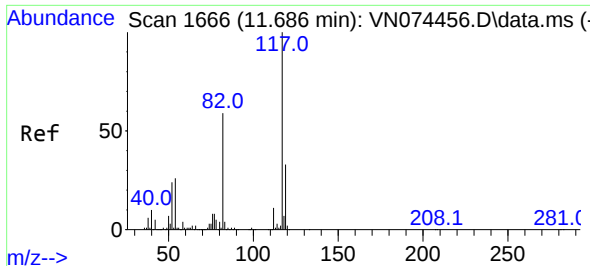
Tgt Ion: 43 Resp: 7874
Ion Ratio Lower Upper
43 100
58 41.7 29.7 89.1



#62
4-Bromofluorobenzene
Concen: 54.771 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.001 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 95 Resp: 292618
Ion Ratio Lower Upper
95 100
174 72.7 0.0 167.6
176 69.8 0.0 163.4

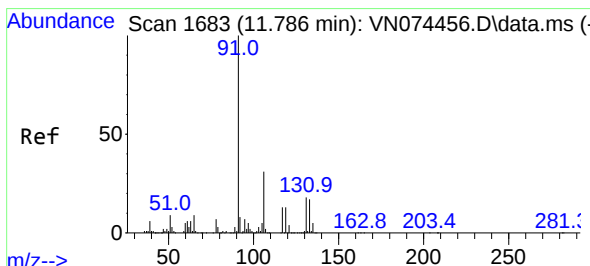
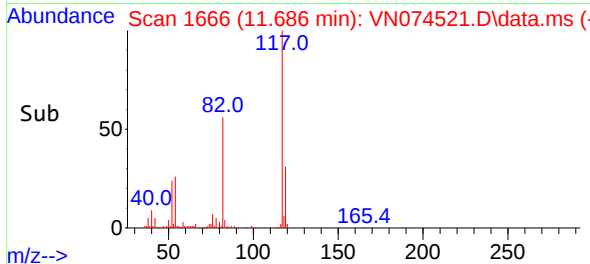
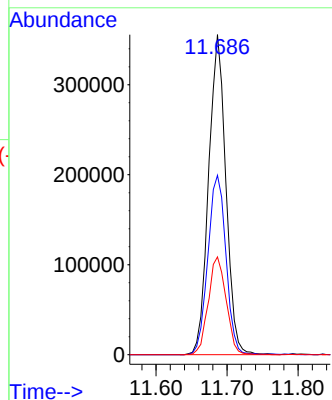
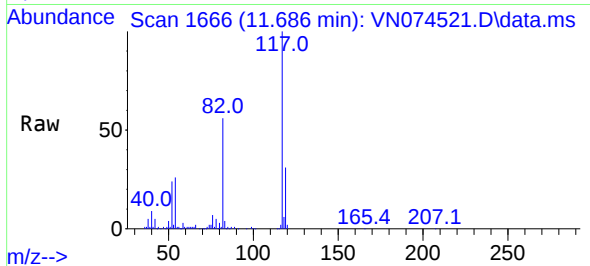




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

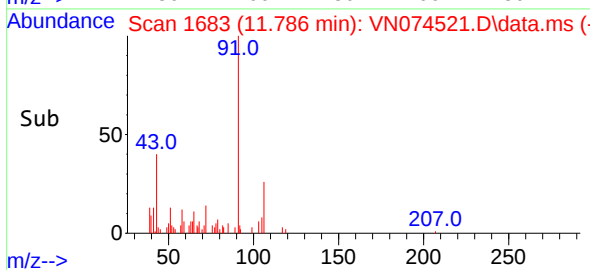
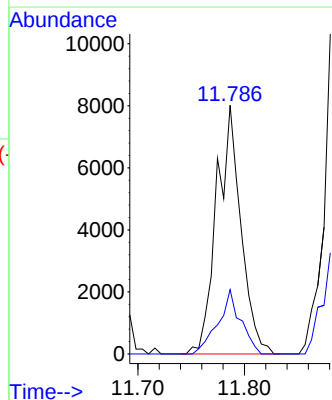
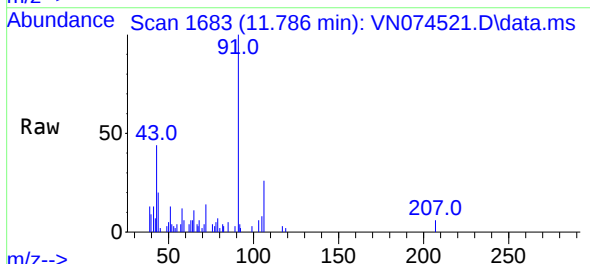
Instrument :
MSVOA_N
ClientSampleId :
HW-54

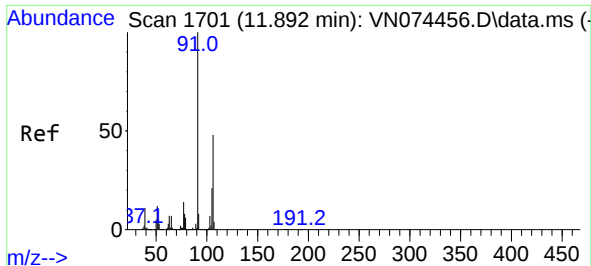
Tgt Ion:117 Resp: 599268
Ion Ratio Lower Upper
117 100
82 56.0 44.2 66.2
119 30.6 25.4 38.0



#67
Ethyl Benzene
Concen: 0.460 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 91 Resp: 12700
Ion Ratio Lower Upper
91 100
106 25.9 24.9 37.3

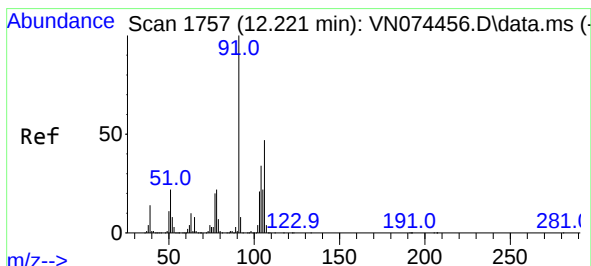
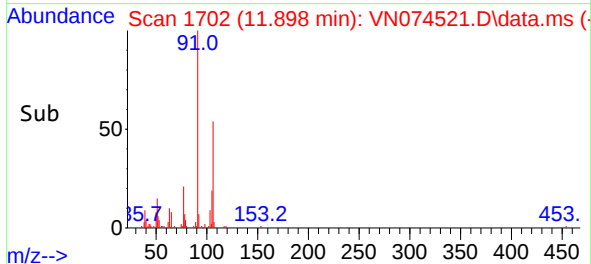
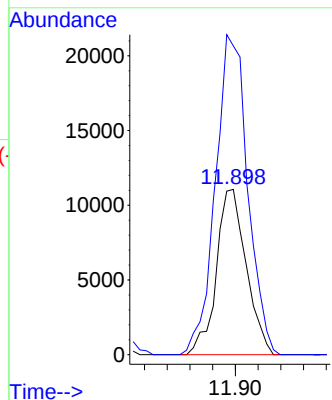
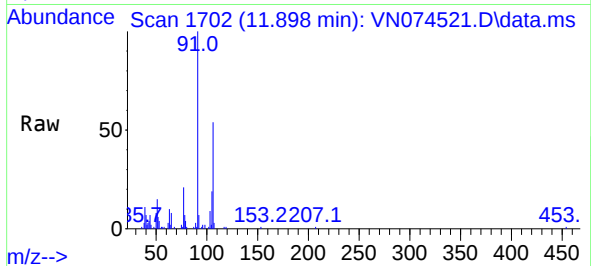




#68
m/p-Xylenes
Concen: 1.980 ug/l
RT: 11.898 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

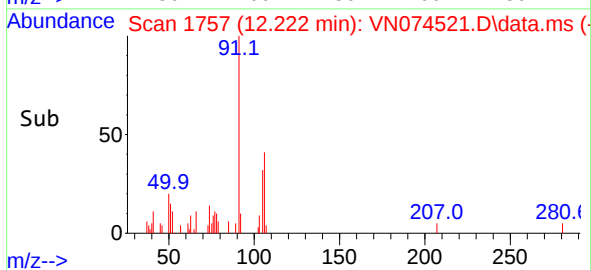
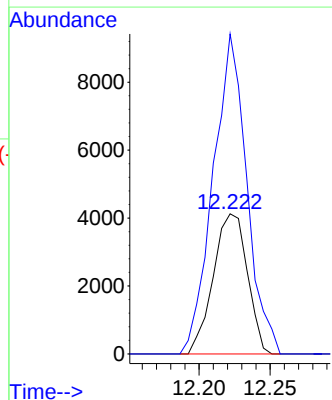
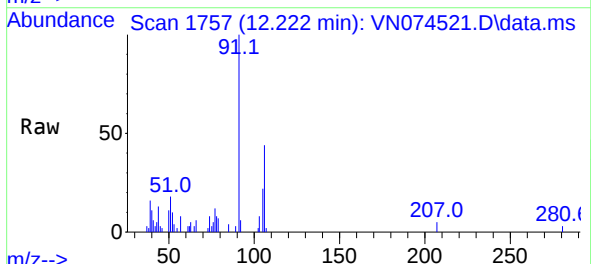
Instrument :
MSVOA_N
ClientSampleId :
HW-54

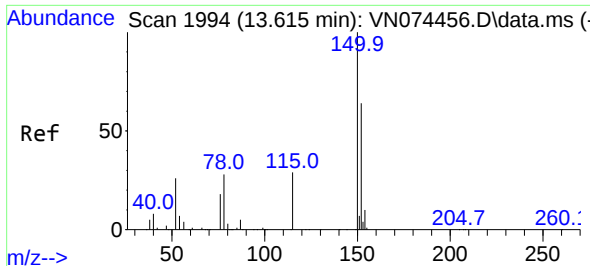
Tgt Ion:106 Resp: 20221
Ion Ratio Lower Upper
106 100
91 209.4 158.9 238.3



#69
o-Xylene
Concen: 0.662 ug/l
RT: 12.222 min Scan# 1757
Delta R.T. 0.001 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion:106 Resp: 6889
Ion Ratio Lower Upper
106 100
91 225.4 106.0 318.0

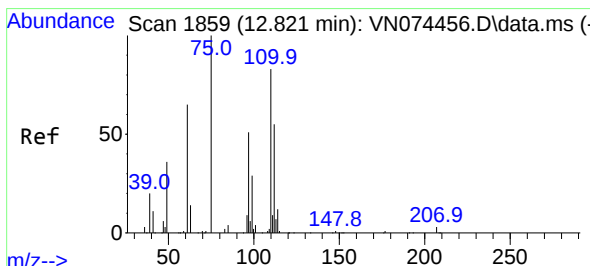
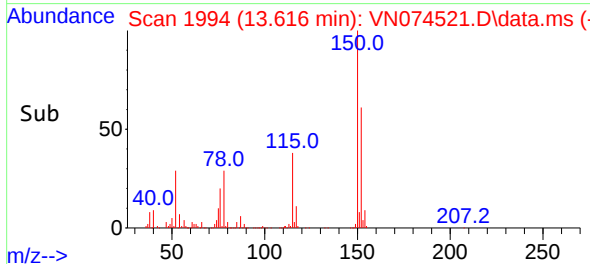
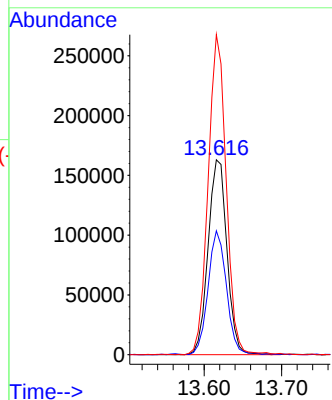
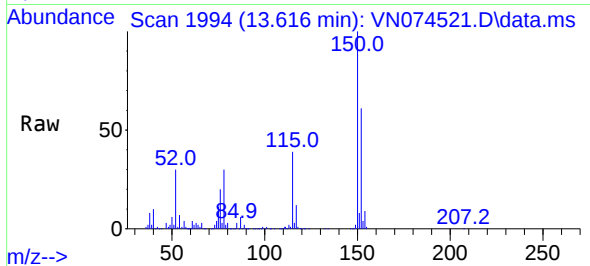




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.616 min Scan# 1994
 Delta R.T. 0.001 min
 Lab File: VN074521.D
 Acq: 16 Sep 2022 19:39

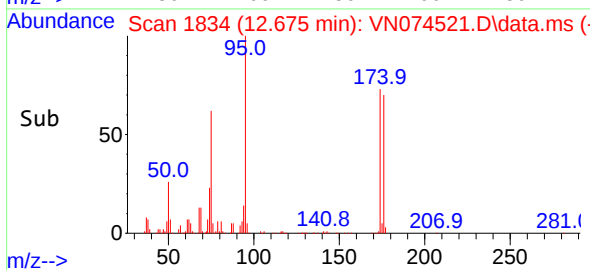
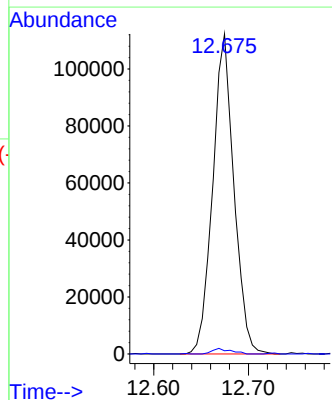
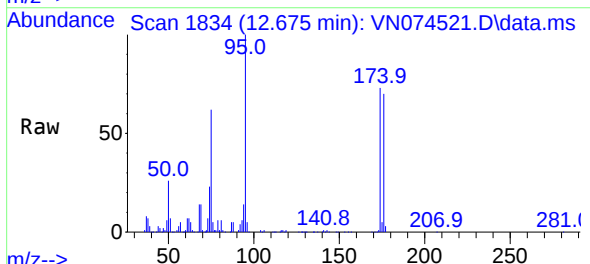
Instrument :
 MSVOA_N
 ClientSampleId :
 HW-54

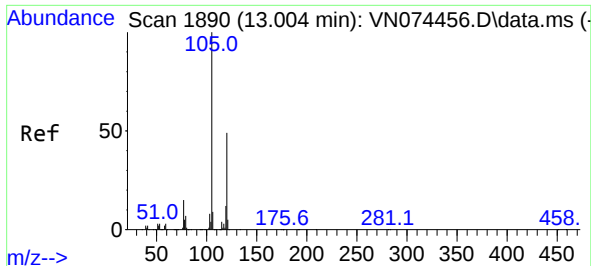
Tgt Ion:152 Resp: 275547
 Ion Ratio Lower Upper
 152 100
 115 62.4 28.9 86.7
 150 157.4 0.0 356.2



#76
 1,2,3-Trichloropropane
 Concen: 20.594 ug/l
 RT: 12.675 min Scan# 1834
 Delta R.T. -0.146 min
 Lab File: VN074521.D
 Acq: 16 Sep 2022 19:39

Tgt Ion: 75 Resp: 174670
 Ion Ratio Lower Upper
 75 100
 77 1.5 98.5 295.5#

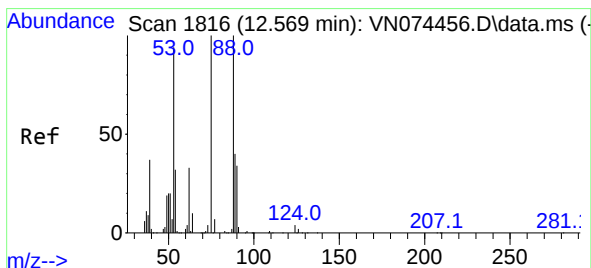
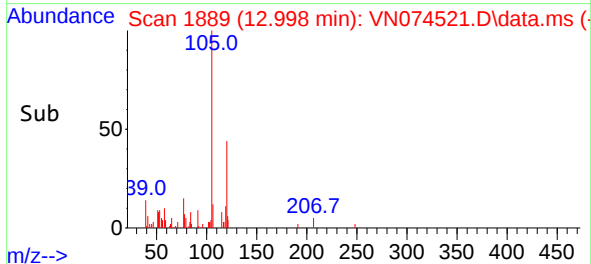
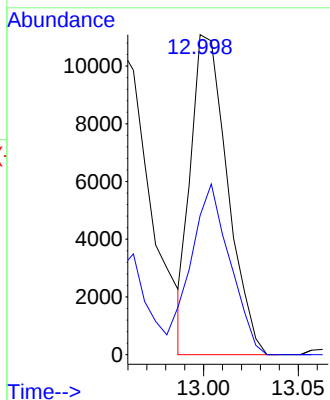
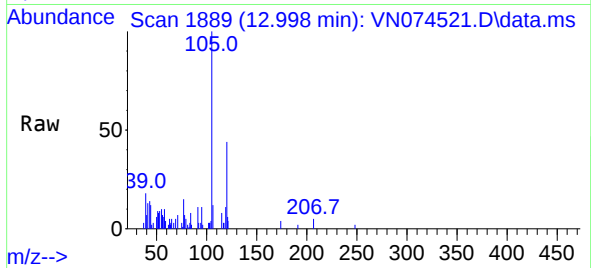




#80
1,3,5-Trimethylbenzene
Concen: 0.647 ug/l
RT: 12.998 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

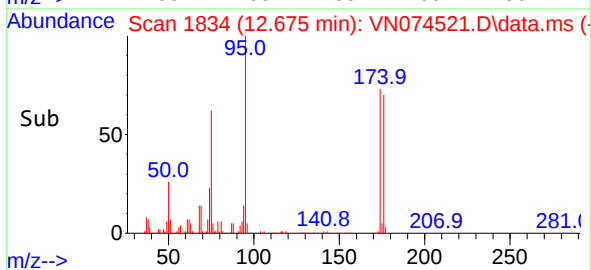
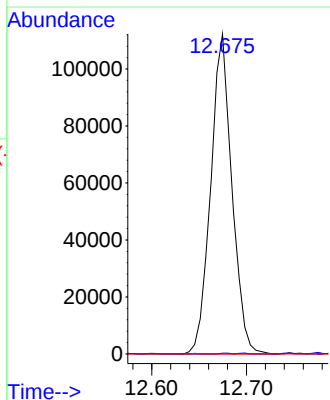
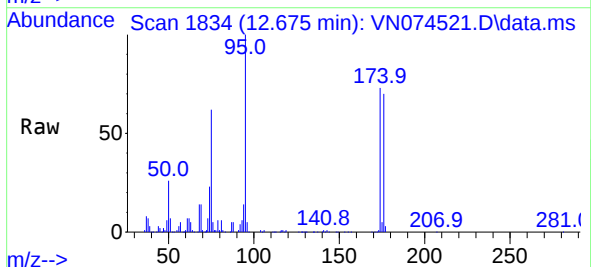
Instrument :
MSVOA_N
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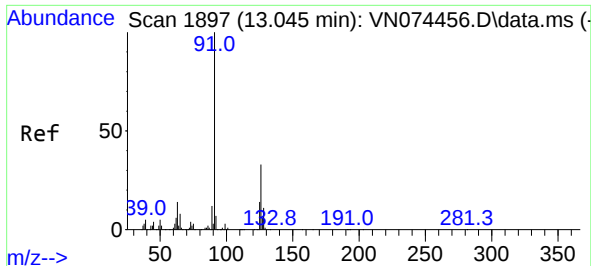
Tgt Ion:105 Resp: 14892
Ion Ratio Lower Upper
105 100
120 57.1 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 44.449 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 75 Resp: 174670
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

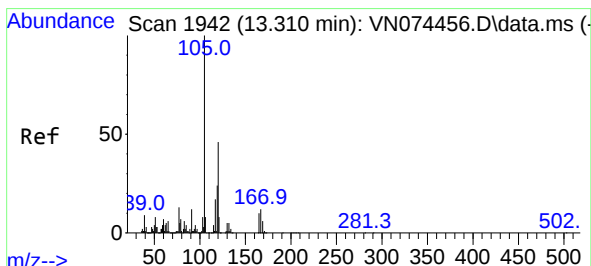
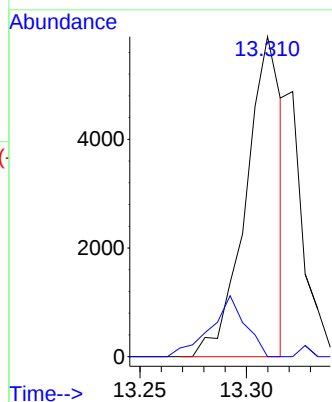
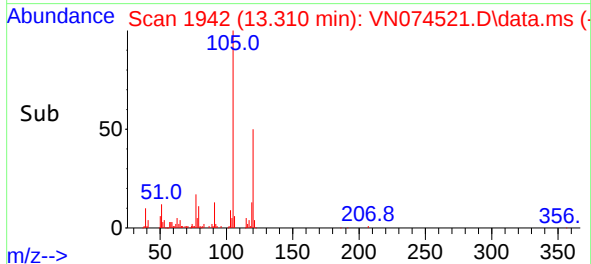
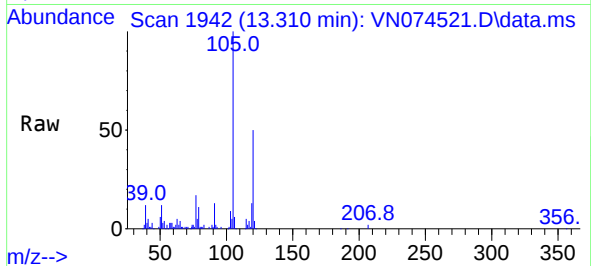




#82
4-Chlorotoluene
Concen: 0.362 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. 0.265 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

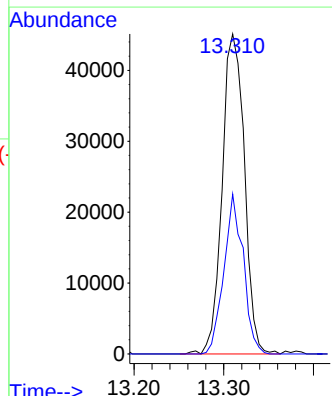
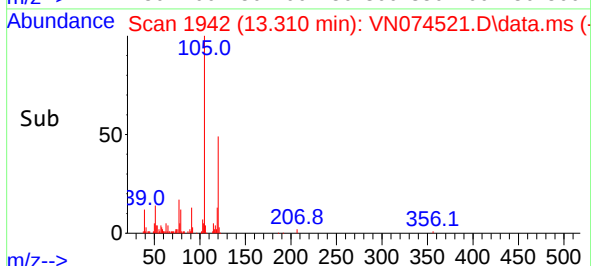
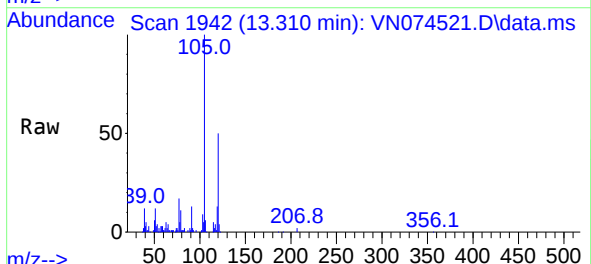
Instrument :
MSVOA_N
ClientSampleId :
HW-54

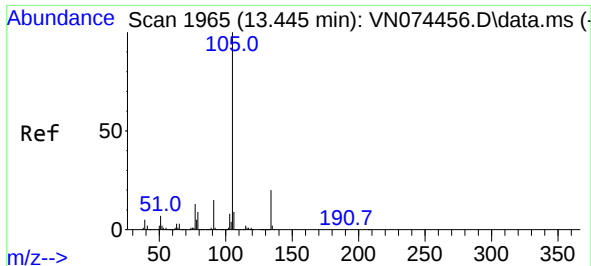
Tgt Ion: 91 Resp: 6905
Ion Ratio Lower Upper
91 100
126 18.4 17.2 51.6



#84
1,2,4-Trimethylbenzene
Concen: 3.353 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. -0.000 min
Lab File: VN074521.D
Acq: 16 Sep 2022 19:39

Tgt Ion: 105 Resp: 77602
Ion Ratio Lower Upper
105 100
120 43.6 23.3 69.8

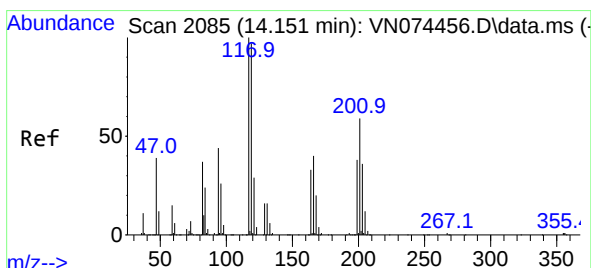
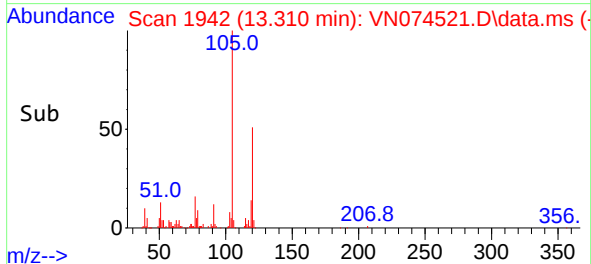
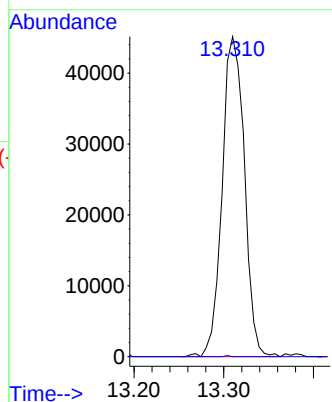
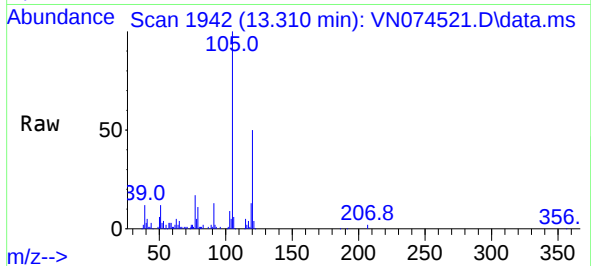




#85
 sec-Butylbenzene
 Concen: 2.700 ug/l
 RT: 13.310 min Scan# 1942
 Delta R.T. -0.135 min
 Lab File: VN074521.D
 Acq: 16 Sep 2022 19:39

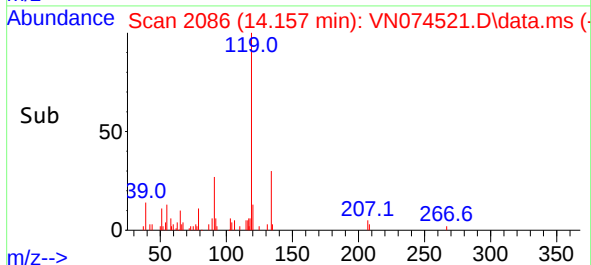
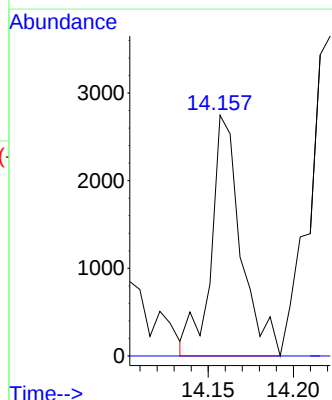
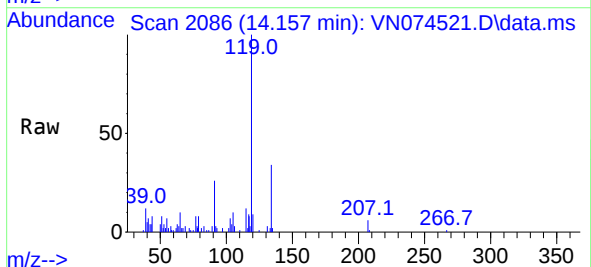
Instrument :
 MSVOA_N
 ClientSampleId :
 HW-54

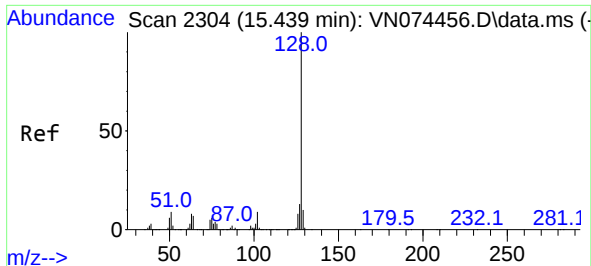
Tgt Ion:105 Resp: 77602
 Ion Ratio Lower Upper
 105 100
 134 0.1 10.4 31.1#



#90
 Hexachloroethane
 Concen: 0.680 ug/l
 RT: 14.157 min Scan# 2086
 Delta R.T. 0.006 min
 Lab File: VN074521.D
 Acq: 16 Sep 2022 19:39

Tgt Ion:117 Resp: 3316
 Ion Ratio Lower Upper
 117 100
 201 0.0 40.6 122.0#





#95

Naphthalene

Concen: 7.636 ug/l

RT: 15.439 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN074521.D

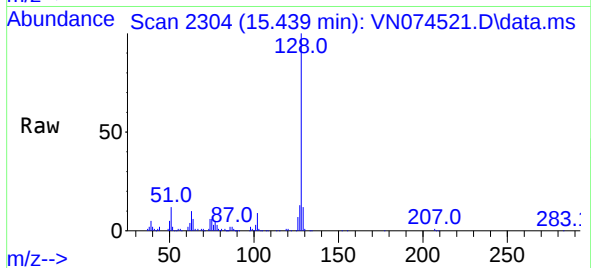
Acq: 16 Sep 2022 19:39

Instrument :

MSVOA_N

ClientSampleId :

HW-54



Tgt Ion:128 Resp: 147295

Ion Ratio Lower Upper

128 100

127 14.0 10.3 15.5

129 10.6 8.6 13.0

