

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090922\
 Data File : VN074388.D
 Acq On : 09 Sep 2022 21:23
 Operator : JC\MD
 Sample : N4471-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BR-03D-479.5-499.5-083122-H

Quant Time: Sep 10 07:27:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 10 06:10:29 2022
 Response via : Initial Calibration

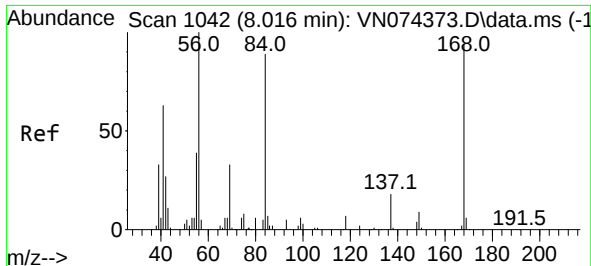
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.016	168	319509	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	571970	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	555694	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	242660	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	231903	41.951	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	83.900%		
35) Dibromofluoromethane	7.951	113	192449	49.840	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.680%		
50) Toluene-d8	10.380	98	646191	42.949	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	85.900%#		
62) 4-Bromofluorobenzene	12.674	95	266062	48.707	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.420%		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	3307	Below Cal		92
4) Vinyl Chloride	2.404	62	3022	0.437 ug/l #		35
11) Tert butyl alcohol	5.287	59	660	0.456 ug/l #		93
12) 1,1-Dichloroethene	4.110	96	151850	38.125 ug/l		99
13) Acrolein	3.969	56	336	0.350 ug/l #		15
16) Acetone	4.228	43	14016	4.696 ug/l #		87
17) Carbon Disulfide	4.457	76	66939	6.184 ug/l		97
18) Methyl Acetate	4.792	43	3121	0.355 ug/l #		71
20) Methylene Chloride	5.028	84	239	Below Cal #		23
21) trans-1,2-Dichloroethene	5.528	96	1286	0.288 ug/l #		84
24) 1,1-Dichloroethane	6.304	63	30825	3.410 ug/l #		95
25) 2-Butanone	7.275	43	4563	0.911 ug/l #		87
27) cis-1,2-Dichloroethene	7.251	96	170037	30.924 ug/l		86
28) Bromochloromethane	7.575	49	66	Below Cal #		20
29) Tetrahydrofuran	7.616	42	2151	0.650 ug/l #		84
30) Chloroform	7.745	83	3313	0.367 ug/l #		42
31) Cyclohexane	8.010	56	9875	1.123 ug/l #		35
36) 1,1-Dichloropropene	8.010	75	32102	5.046 ug/l #		53
38) Carbon Tetrachloride	8.022	117	37398	5.695 ug/l #		14
42) 1,2-Dichloroethane	8.457	62	14808	1.989 ug/l		99
44) Trichloroethene	9.151	130	104217	23.867 ug/l		95
49) 1,4-Dioxane	9.516	88	4538	32.378 ug/l #		84
51) 4-Methyl-2-Pentanone	10.269	43	3047	0.309 ug/l		97
52) Toluene	10.445	92	92928	7.715 ug/l		99
74) N-amyl acetate	12.298	43	1286	Below Cal #		51
76) 1,2,3-Trichloropropane	12.674	75	158581	24.999 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.674	75	158581	55.722 ug/l #		9
92) 1,2-Dibromo-3-Chloropr...	14.539	75	108	Below Cal #		8

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 10 06:10:29 2022
Response via : Initial Calibration

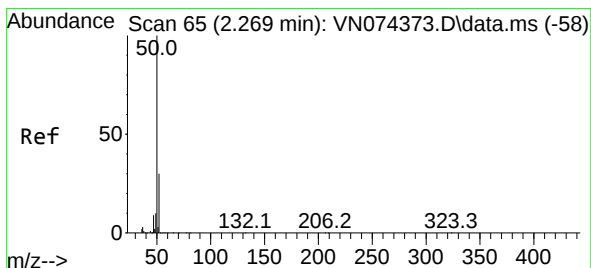
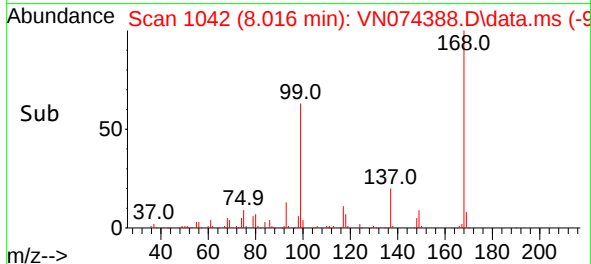
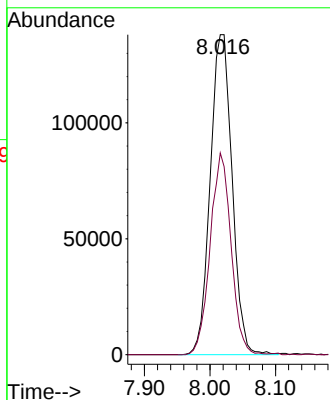
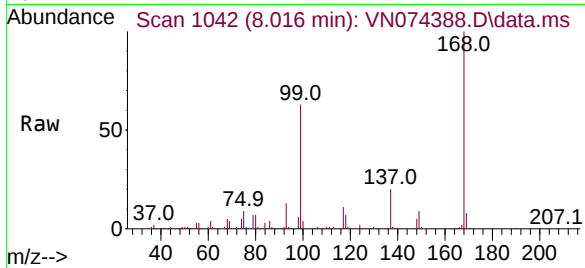




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

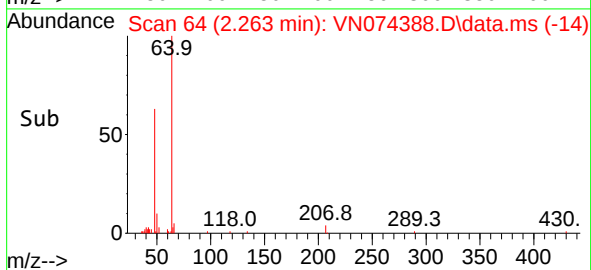
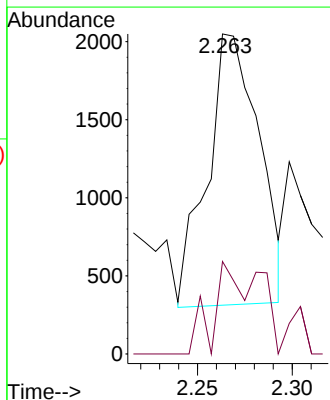
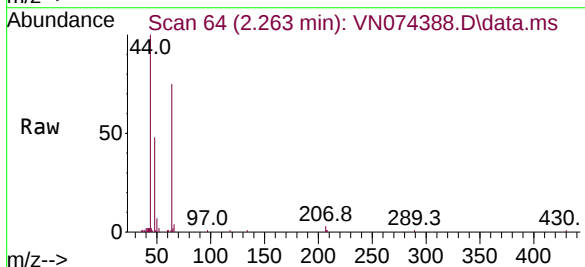
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

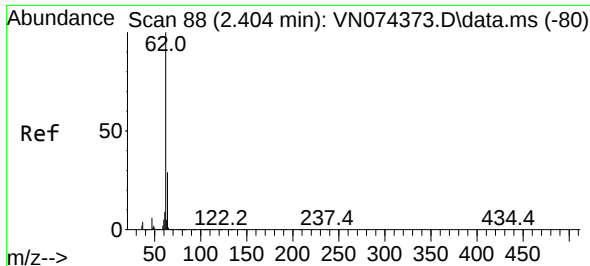
Tgt Ion:168 Resp: 319509
Ion Ratio Lower Upper
168 100
99 63.1 52.8 79.2



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 50 Resp: 3307
Ion Ratio Lower Upper
50 100
52 34.5 24.1 36.1

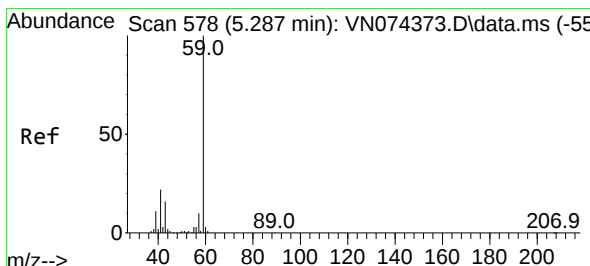
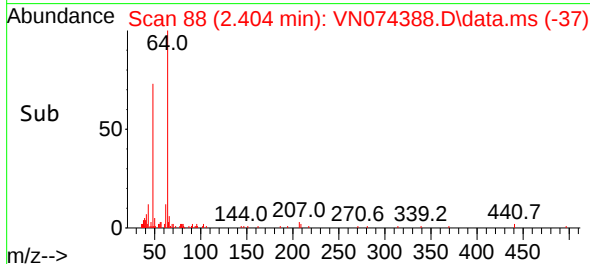
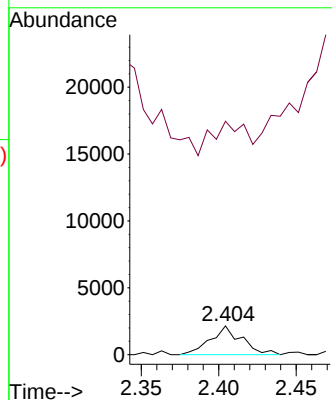
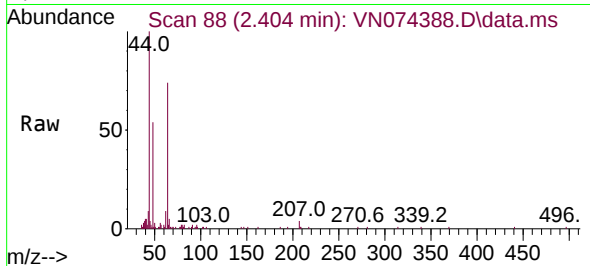




#4
 Vinyl Chloride
 Concen: 0.437 ug/l
 RT: 2.404 min Scan# 88
 Delta R.T. -0.000 min
 Lab File: VN074388.D
 Acq: 09 Sep 2022 21:23

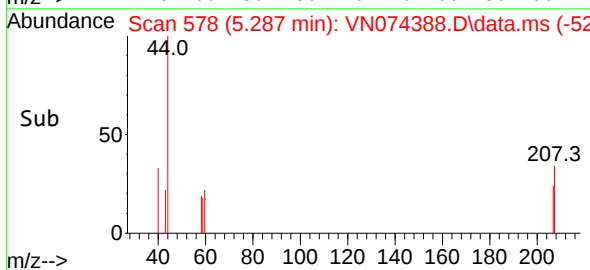
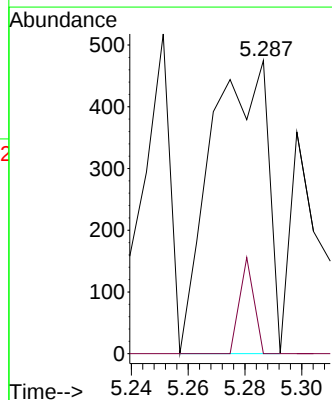
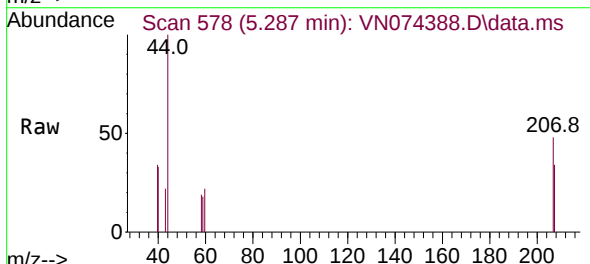
Instrument :
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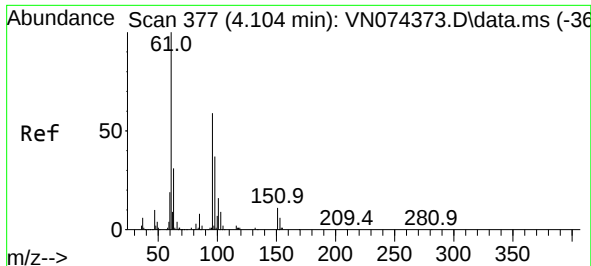
Tgt Ion: 62 Resp: 3022
 Ion Ratio Lower Upper
 62 100
 64 64.2 23.5 35.3#



#11
 Tert butyl alcohol
 Concen: 0.456 ug/l
 RT: 5.287 min Scan# 578
 Delta R.T. -0.000 min
 Lab File: VN074388.D
 Acq: 09 Sep 2022 21:23

Tgt Ion: 59 Resp: 660
 Ion Ratio Lower Upper
 59 100
 57 8.3 8.8 13.2#

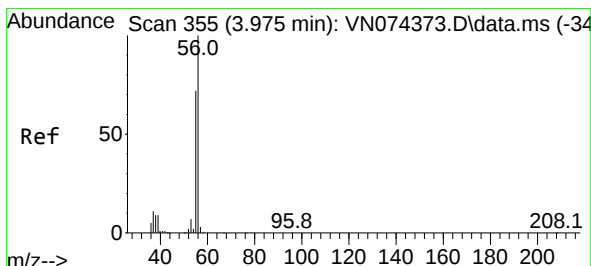
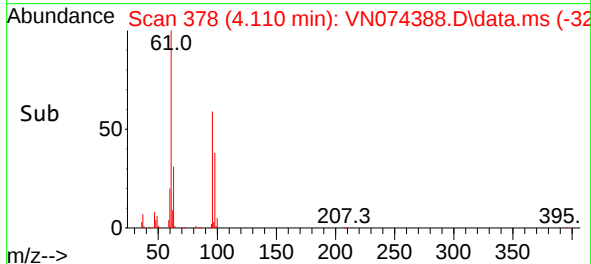
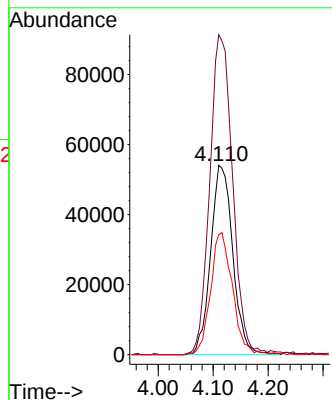
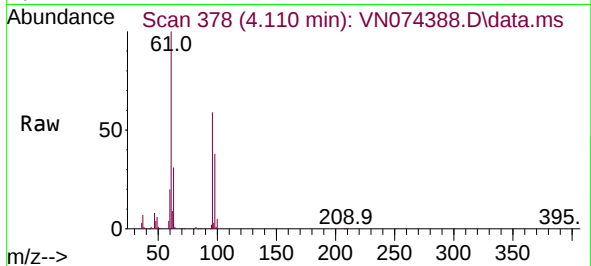




#12
1,1-Dichloroethene
Concen: 38.125 ug/l
RT: 4.110 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

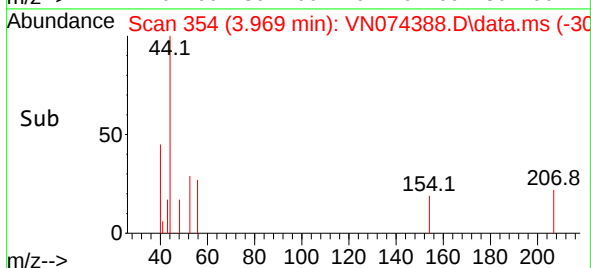
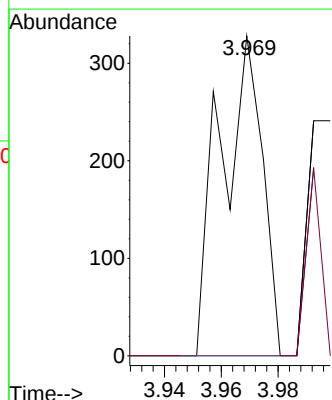
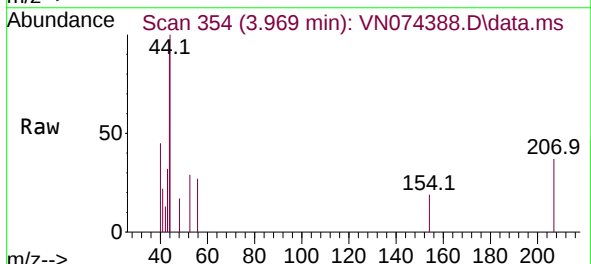
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

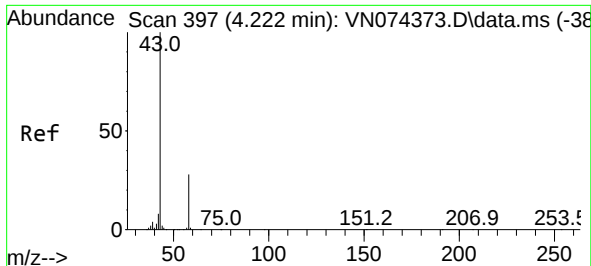
Tgt Ion: 96 Resp: 151850
Ion Ratio Lower Upper
96 100
61 169.1 134.7 202.1
98 63.5 50.2 75.4



#13
Acrolein
Concen: 0.350 ug/l
RT: 3.969 min Scan# 354
Delta R.T. -0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 56 Resp: 336
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

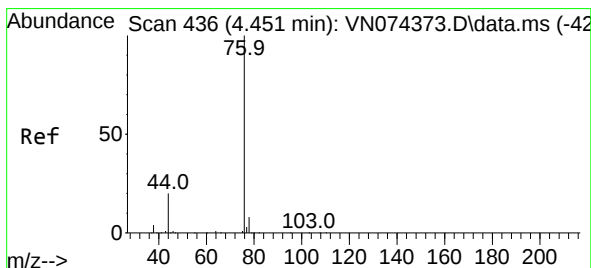
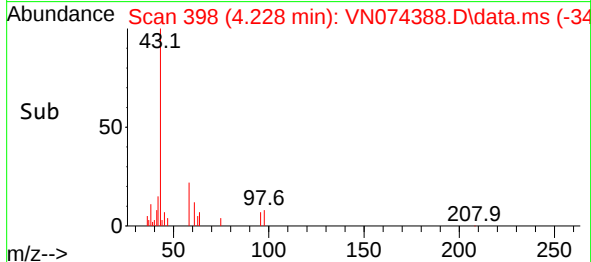
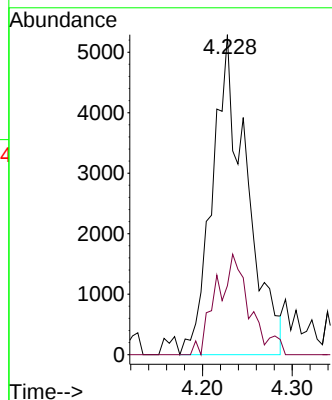
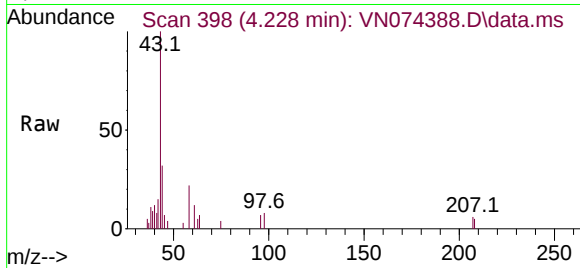




#16
Acetone
Concen: 4.696 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

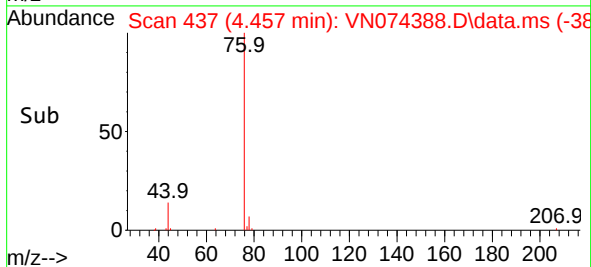
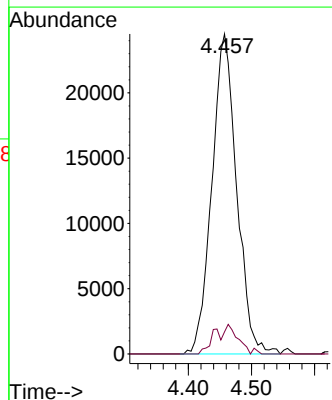
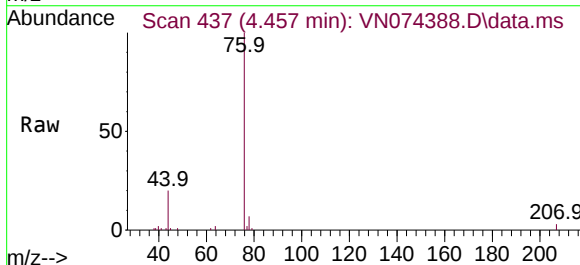
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

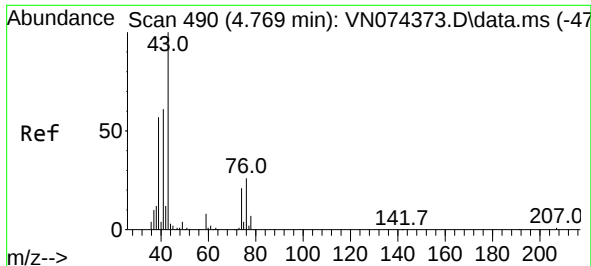
Tgt Ion: 43 Resp: 14016
Ion Ratio Lower Upper
43 100
58 21.5 22.7 34.1#



#17
Carbon Disulfide
Concen: 6.184 ug/l
RT: 4.457 min Scan# 437
Delta R.T. 0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 76 Resp: 66939
Ion Ratio Lower Upper
76 100
78 6.9 6.5 9.7

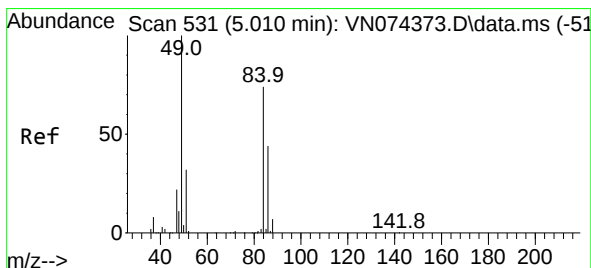
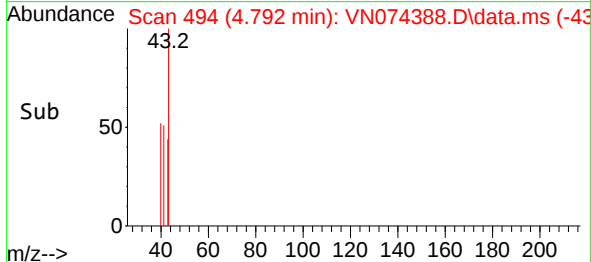
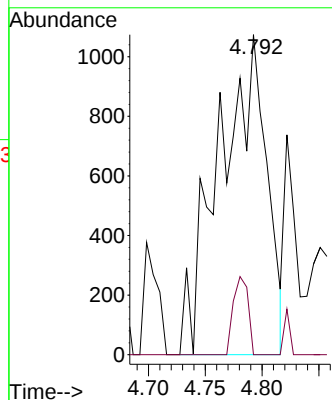
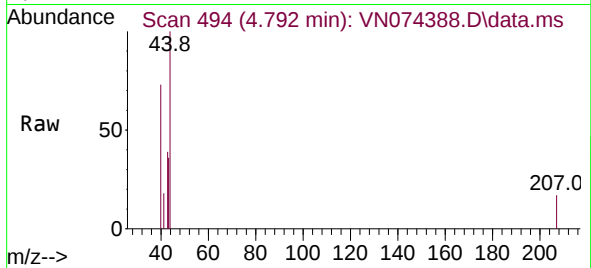




#18
Methyl Acetate
Concen: 0.355 ug/l
RT: 4.792 min Scan# 491
Delta R.T. 0.023 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

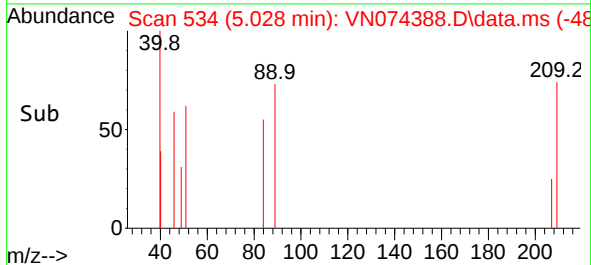
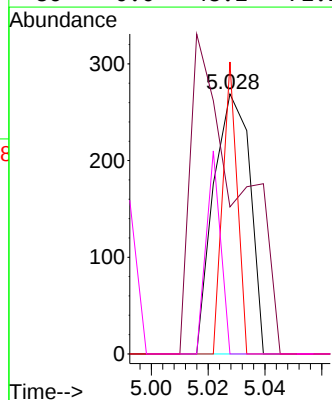
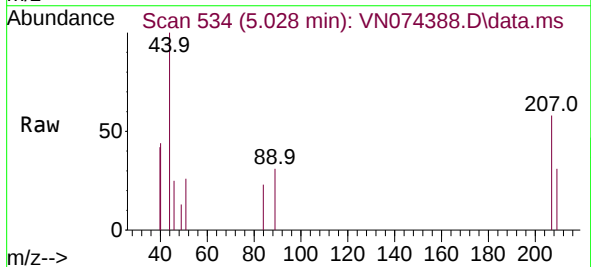
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ClientSampleId :
BR-03D-479.5-499.5-083122-H

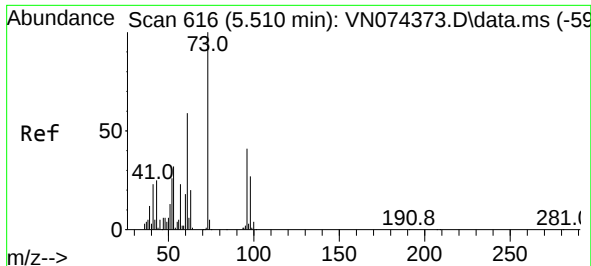
Tgt Ion: 43 Resp: 3121
Ion Ratio Lower Upper
43 100
74 7.6 16.7 25.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.028 min Scan# 534
Delta R.T. 0.018 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 84 Resp: 239
Ion Ratio Lower Upper
84 100
49 56.5 108.2 162.4#
51 112.3 34.3 51.5#
86 0.0 48.2 72.2#

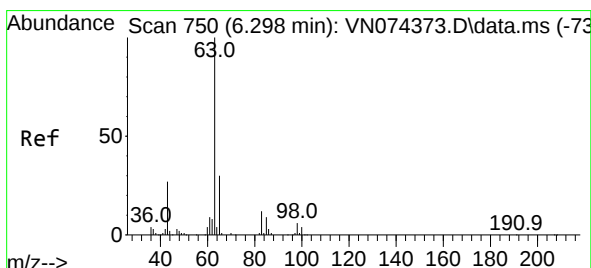
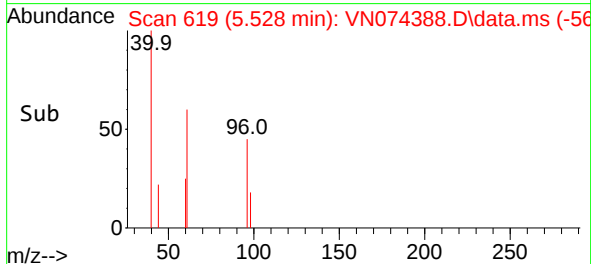
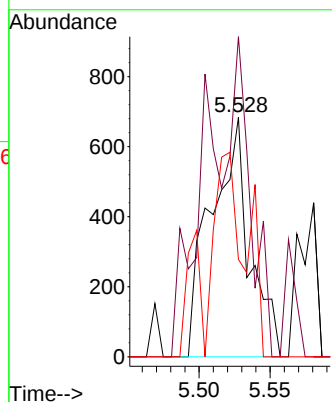
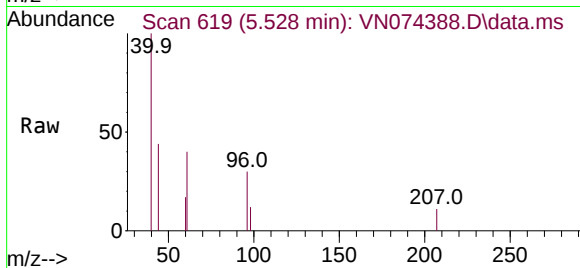




#21
trans-1,2-Dichloroethene
Concen: 0.288 ug/l
RT: 5.528 min Scan# 619
Delta R.T. 0.018 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

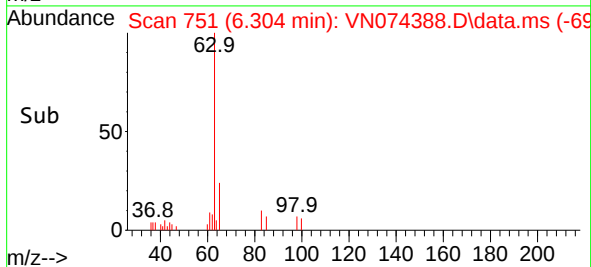
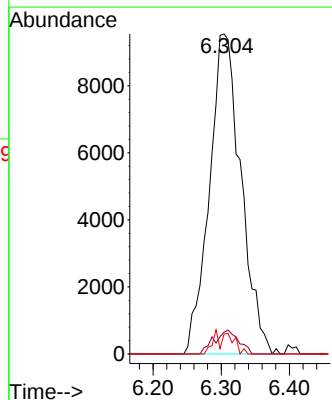
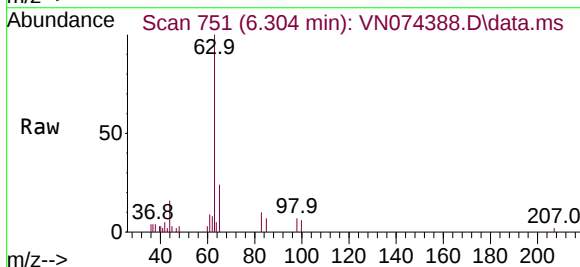
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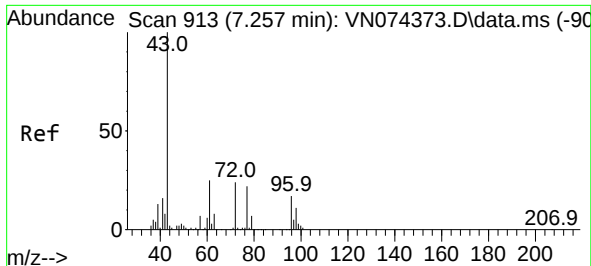
Tgt Ion: 96 Resp: 1286
Ion Ratio Lower Upper
96 100
61 133.6 115.3 172.9
98 40.6 53.4 80.0#



#24
1,1-Dichloroethane
Concen: 3.410 ug/l
RT: 6.304 min Scan# 751
Delta R.T. 0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 63 Resp: 30825
Ion Ratio Lower Upper
63 100
98 6.8 2.9 8.6
100 6.2 2.0 5.8#

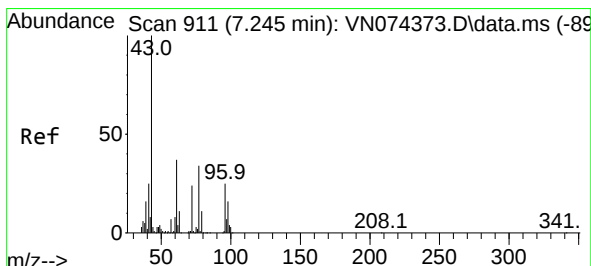
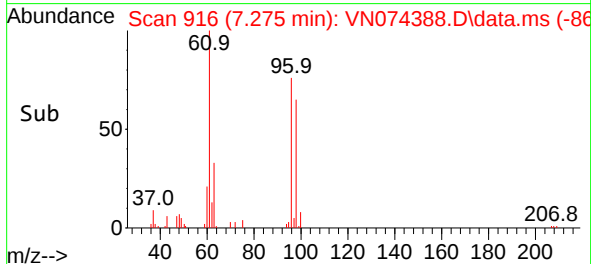
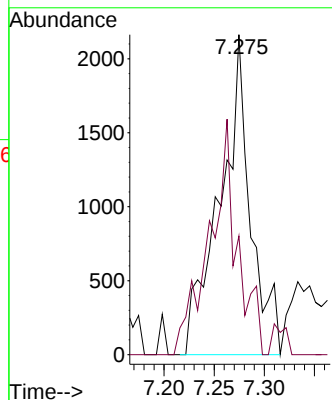
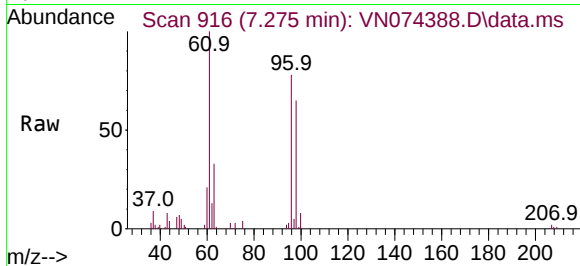




#25
2-Butanone
Concen: 0.911 ug/l
RT: 7.275 min Scan# 916
Delta R.T. 0.018 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

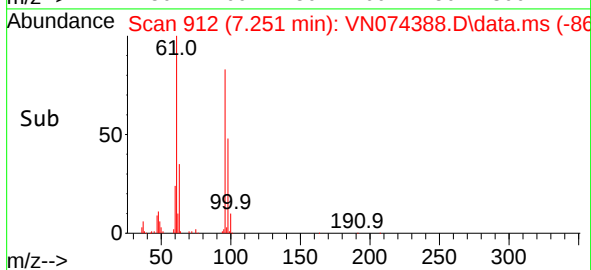
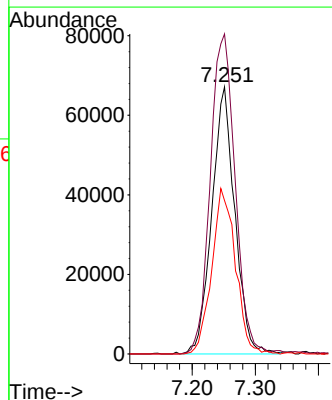
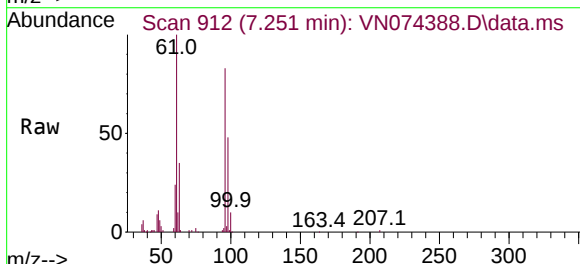
Instrument :
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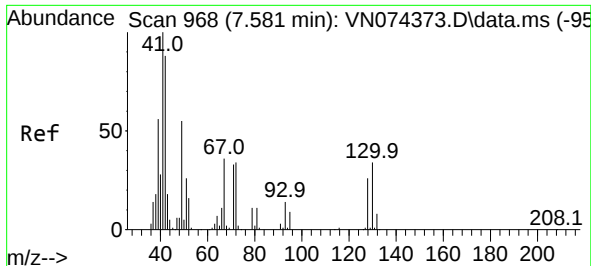
Tgt Ion: 43 Resp: 4563
Ion Ratio Lower Upper
43 100
72 30.1 18.9 28.3#



#27
cis-1,2-Dichloroethene
Concen: 30.924 ug/l
RT: 7.251 min Scan# 912
Delta R.T. 0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 96 Resp: 170037
Ion Ratio Lower Upper
96 100
61 128.9 0.0 306.2
98 63.9 0.0 129.8

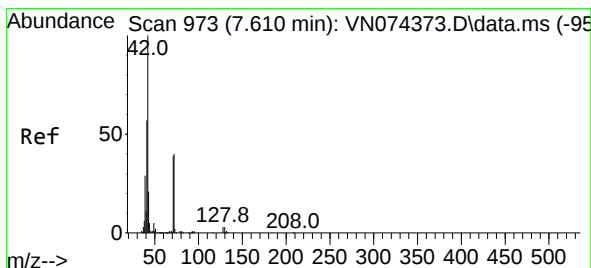
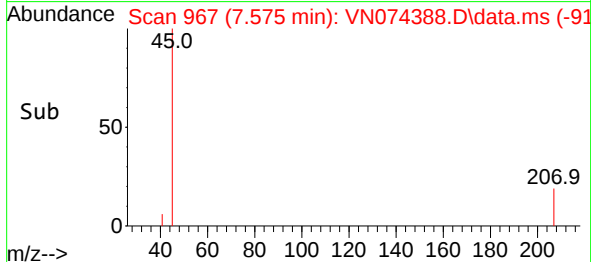
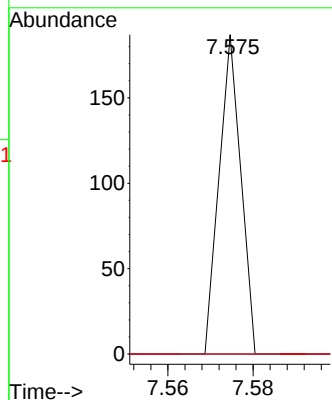
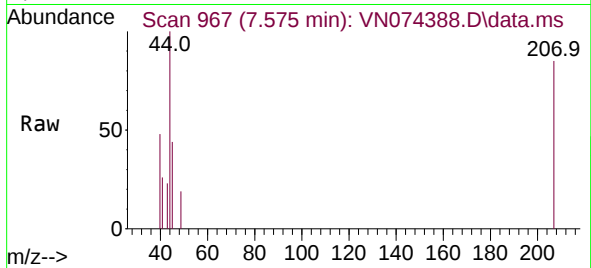




#28
Bromochloromethane
Concen: Below Cal
RT: 7.575 min Scan# 90
Delta R.T. -0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

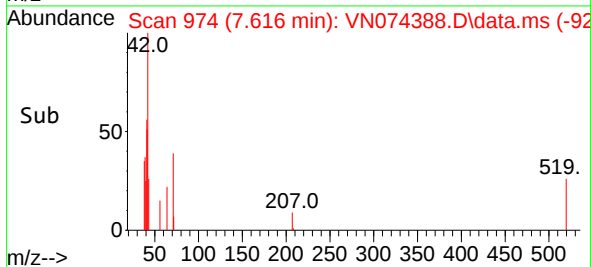
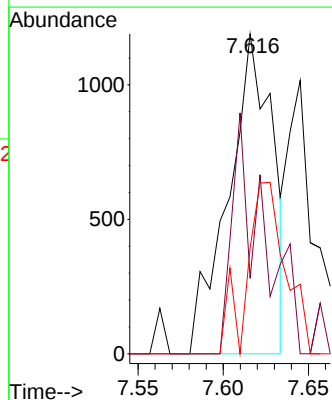
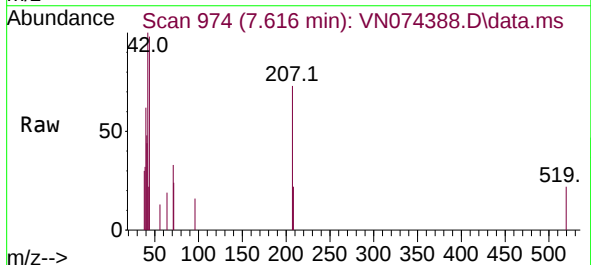
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

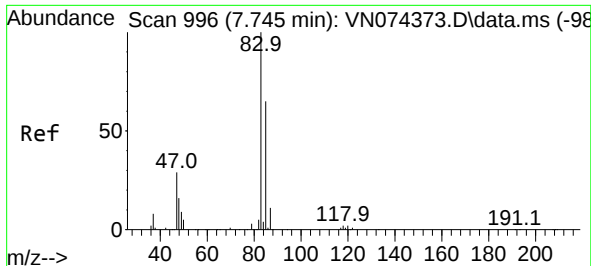
Tgt Ion: 49 Resp: 66
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.2
130 0.0 50.0 75.0#



#29
Tetrahydrofuran
Concen: 0.650 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 42 Resp: 2151
Ion Ratio Lower Upper
42 100
72 52.9 32.7 49.1#
71 46.8 31.0 46.6#

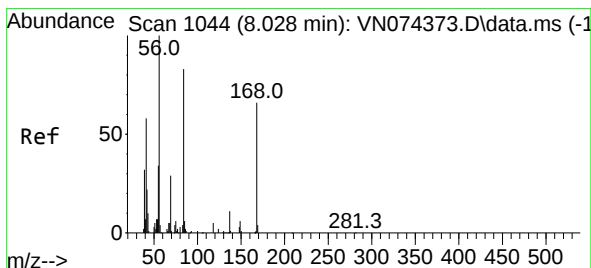
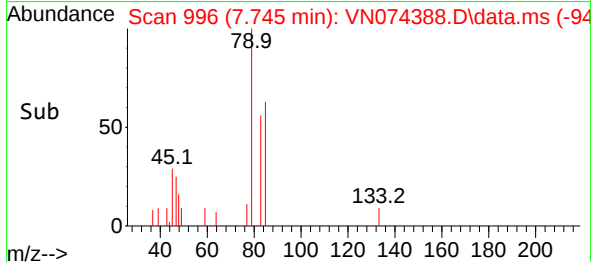
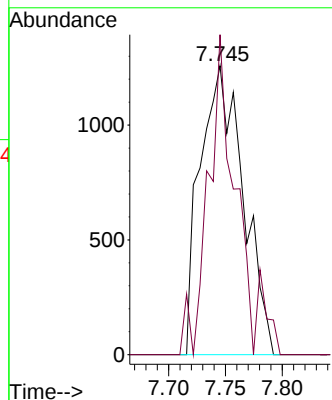
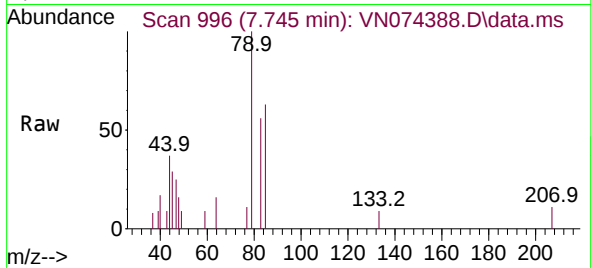




#30
Chloroform
Concen: 0.367 ug/l
RT: 7.745 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

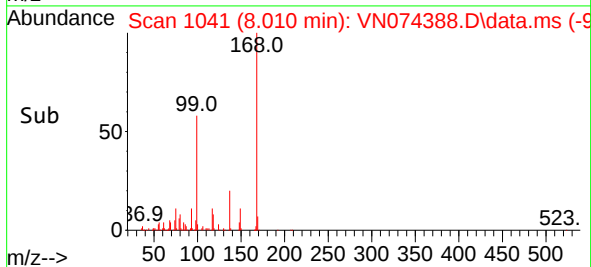
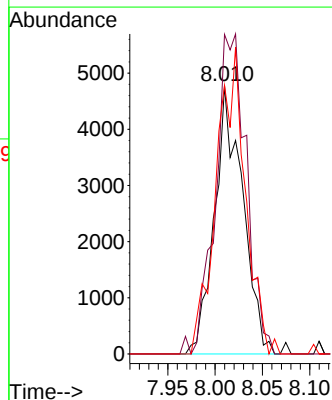
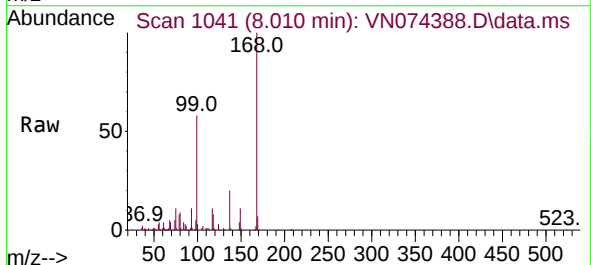
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

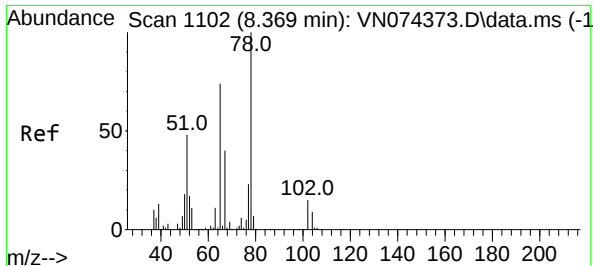
Tgt Ion: 83 Resp: 3313
Ion Ratio Lower Upper
83 100
85 110.7 51.8 77.6#



#31
Cyclohexane
Concen: 1.123 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.018 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 56 Resp: 9875
Ion Ratio Lower Upper
56 100
69 119.2 23.0 34.4#
84 108.0 66.3 99.5#





#33

1,2-Dichloroethane-d4

Concen: 41.951 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074388.D

Acq: 09 Sep 2022 21:23

Instrument :

MSVOA_N

ClientSampleId :

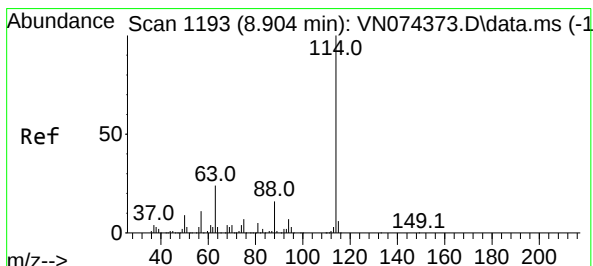
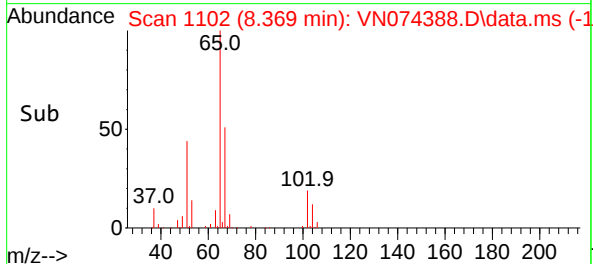
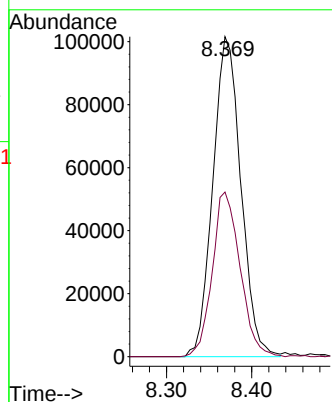
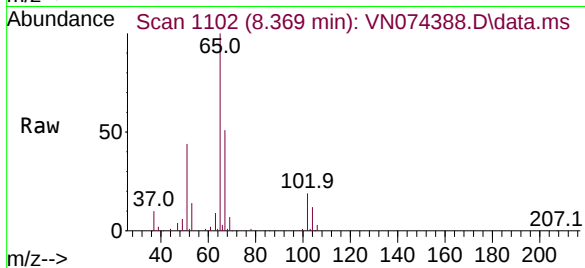
BR-03D-479.5-499.5-083122-H

Tgt Ion: 65 Resp: 231903

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074388.D

Acq: 09 Sep 2022 21:23

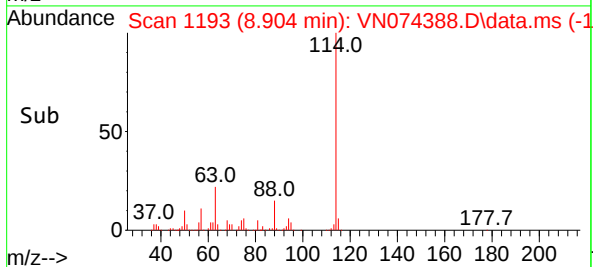
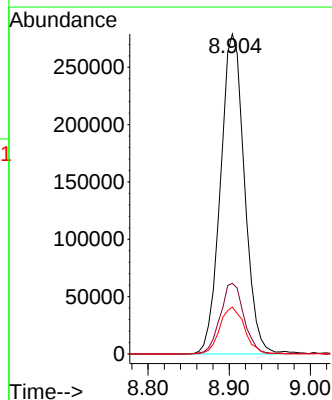
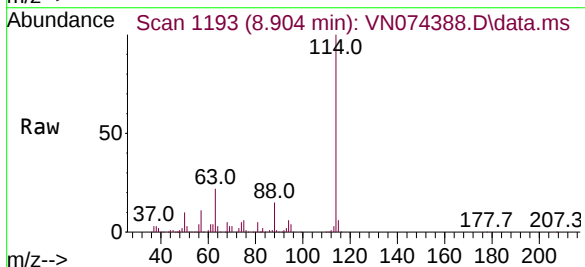
Tgt Ion: 114 Resp: 571970

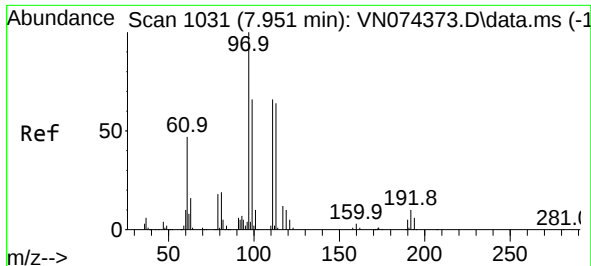
Ion Ratio Lower Upper

114 100

63 22.1 0.0 47.6

88 14.6 0.0 31.4

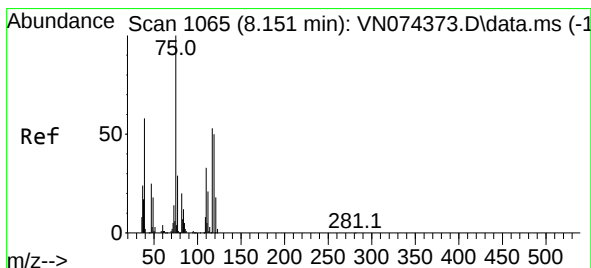
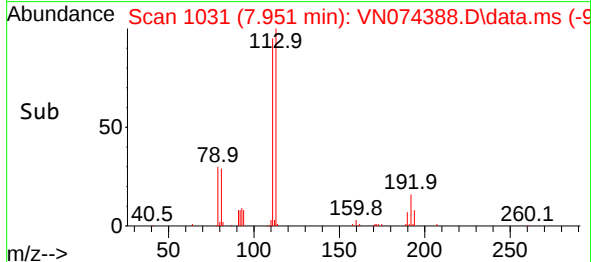
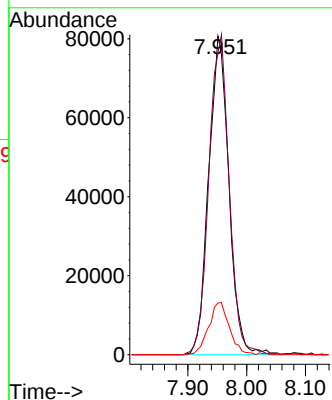
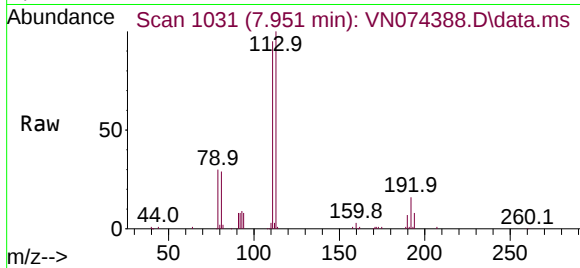




#35
Dibromofluoromethane
Concen: 49.840 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

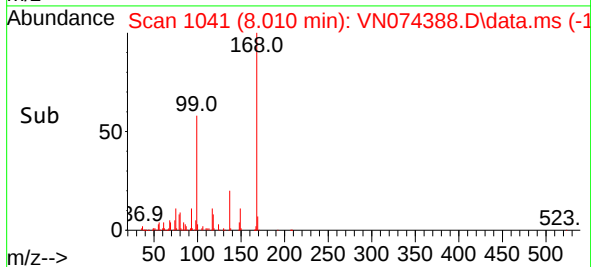
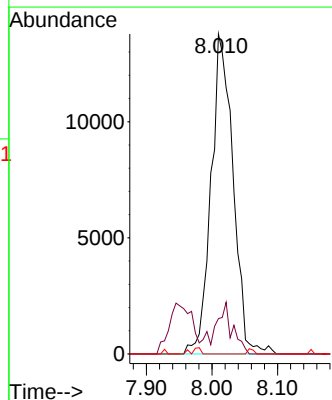
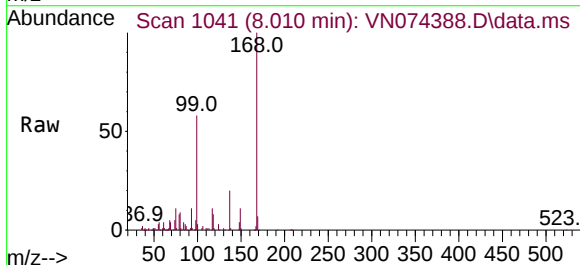
Instrument : MSVOA_N
ClientSampleId : BR-03D-479.5-499.5-083122-H

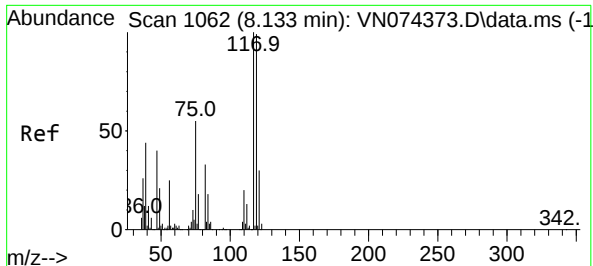
Tgt Ion:113 Resp: 192449
Ion Ratio Lower Upper
113 100
111 101.0 83.0 124.4
192 16.8 13.7 20.5



#36
1,1-Dichloropropene
Concen: 5.046 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.141 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 75 Resp: 32102
Ion Ratio Lower Upper
75 100
110 12.3 16.4 49.1#
77 0.0 25.4 38.2#

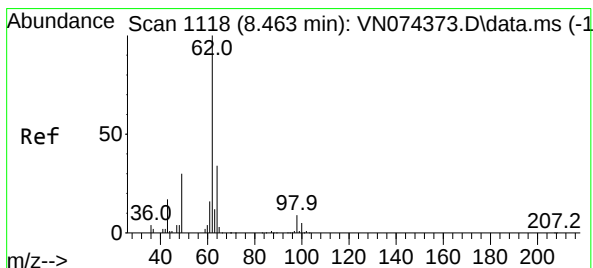
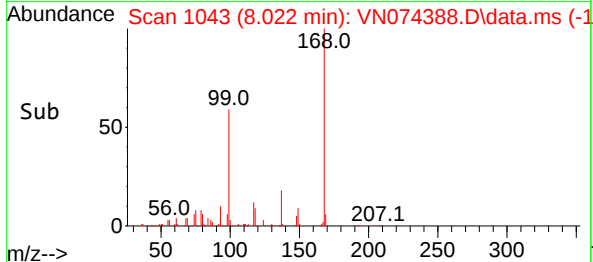
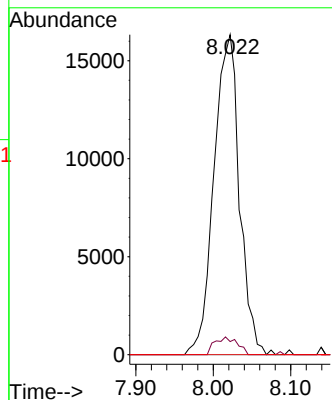
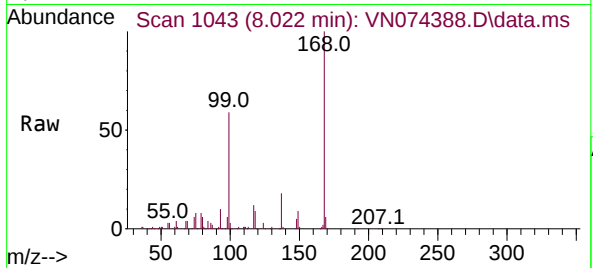




#38
Carbon Tetrachloride
Concen: 5.695 ug/l
RT: 8.022 min Scan# 1107
Delta R.T. -0.112 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

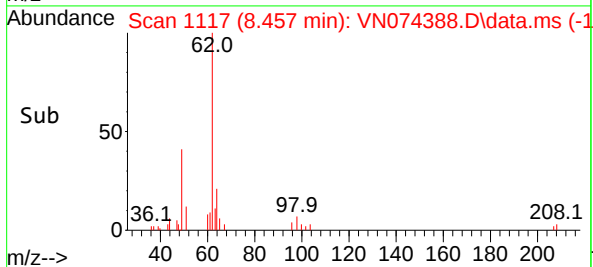
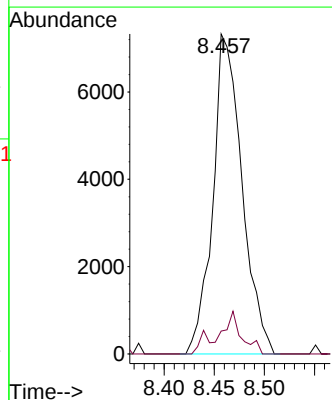
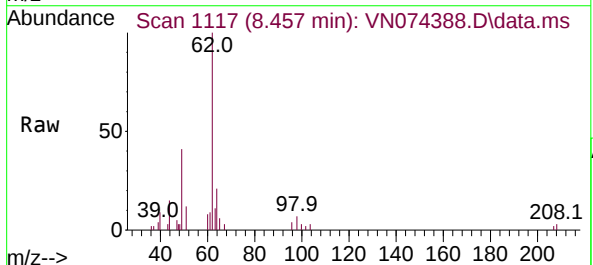
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

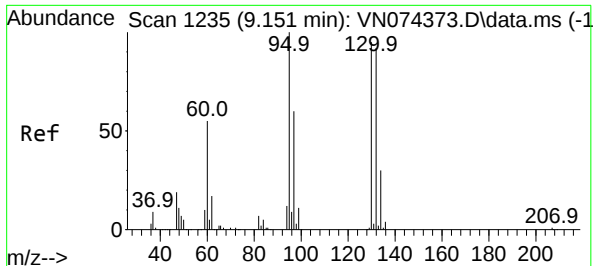
Tgt Ion:117 Resp: 37398
Ion Ratio Lower Upper
117 100
119 4.1 78.8 118.2#
121 0.0 24.1 36.1#



#42
1,2-Dichloroethane
Concen: 1.989 ug/l
RT: 8.457 min Scan# 1117
Delta R.T. -0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 62 Resp: 14808
Ion Ratio Lower Upper
62 100
98 8.4 0.0 17.6

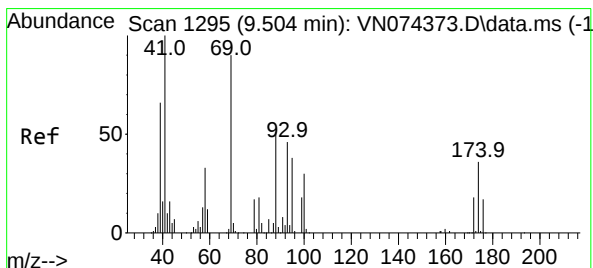
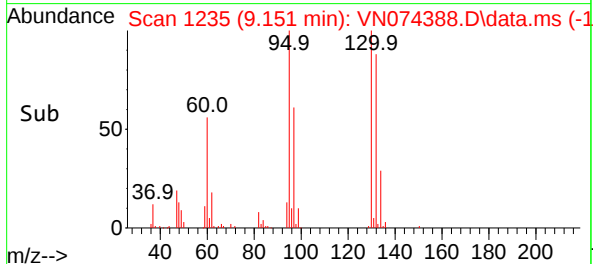
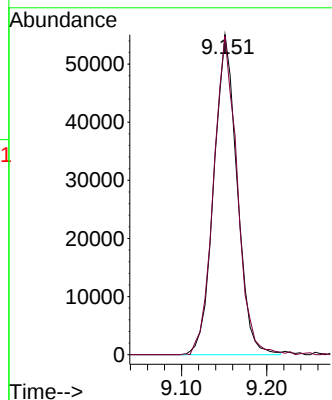
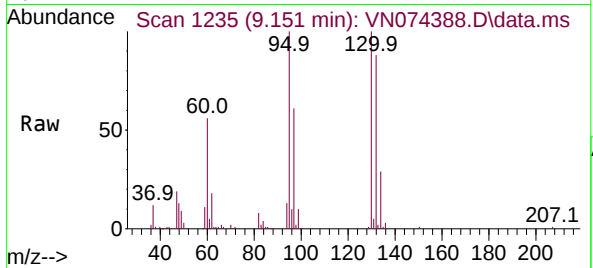




#44
Trichloroethene
Concen: 23.867 ug/l
RT: 9.151 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

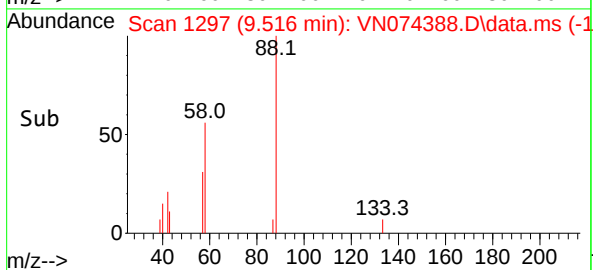
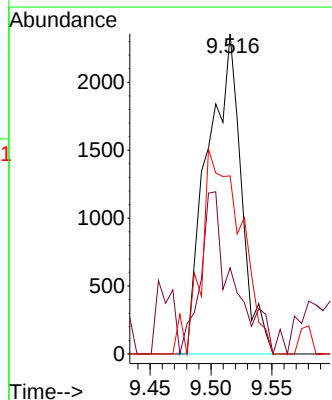
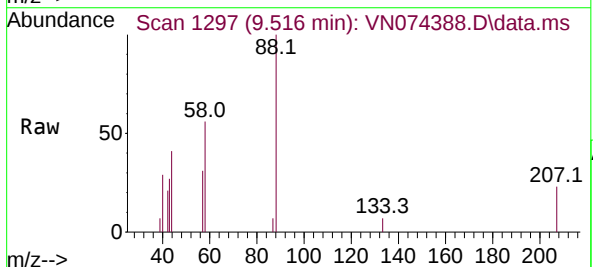
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

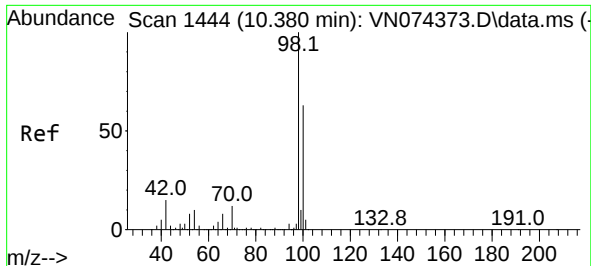
Tgt Ion:130 Resp: 104217
Ion Ratio Lower Upper
130 100
95 99.6 0.0 210.0



#49
1,4-Dioxane
Concen: 32.378 ug/l
RT: 9.516 min Scan# 1297
Delta R.T. 0.012 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 88 Resp: 4538
Ion Ratio Lower Upper
88 100
43 48.4 26.9 40.3#
58 75.1 52.7 79.1

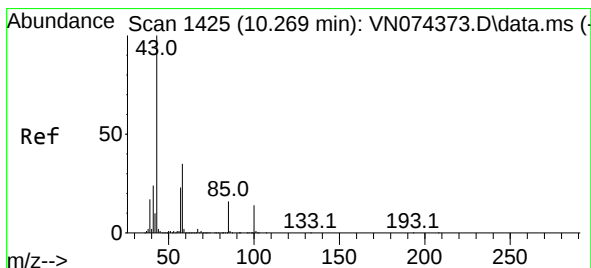
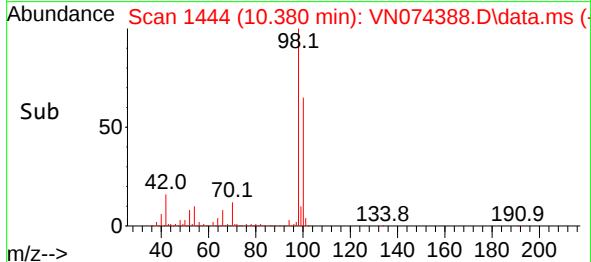
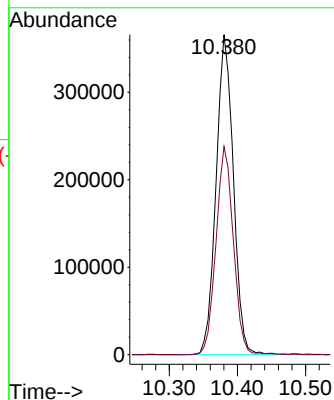
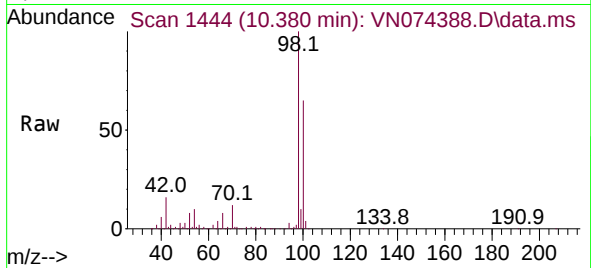




#50
Toluene-d8
Concen: 42.949 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

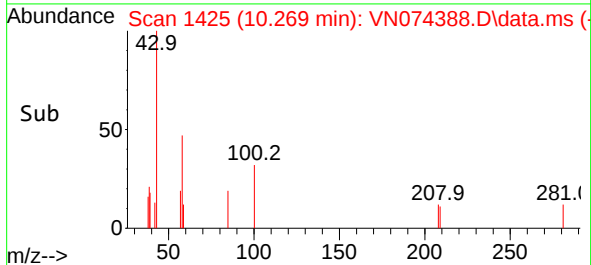
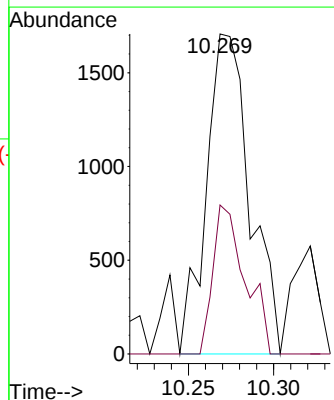
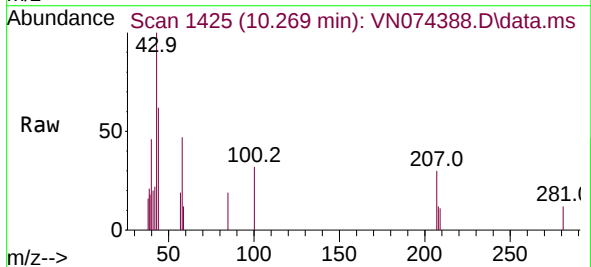
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

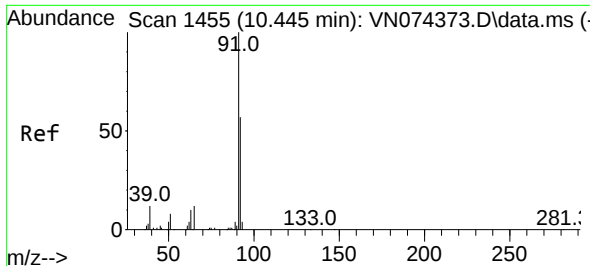
Tgt Ion: 98 Resp: 646191
Ion Ratio Lower Upper
98 100
100 65.5 50.6 76.0



#51
4-Methyl-2-Pentanone
Concen: 0.309 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 43 Resp: 3047
Ion Ratio Lower Upper
43 100
58 34.4 29.0 43.6

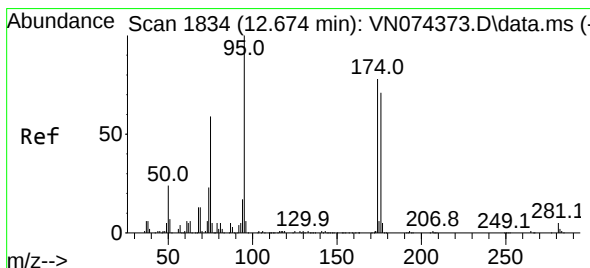
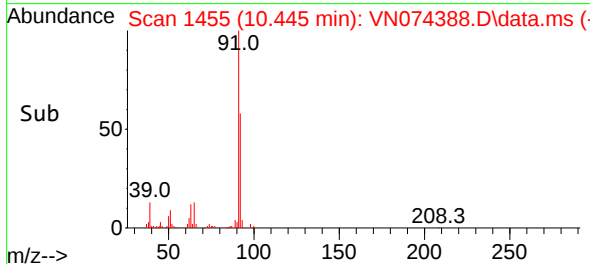
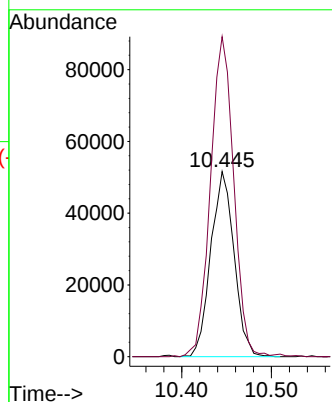
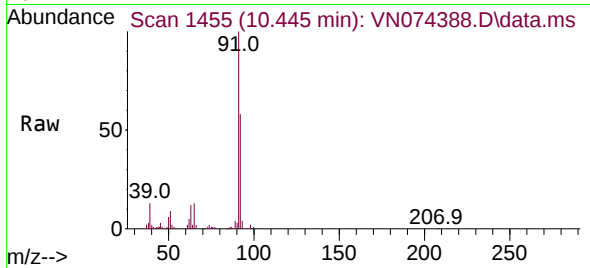




#52
Toluene
Concen: 7.715 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

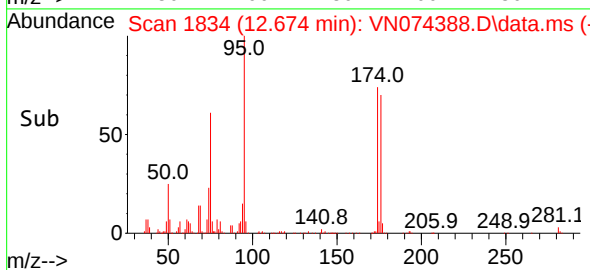
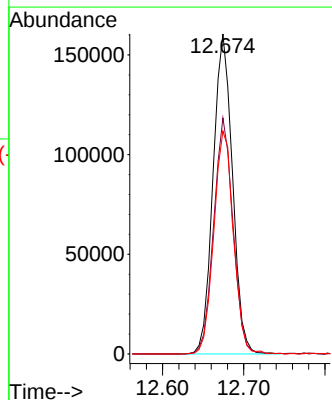
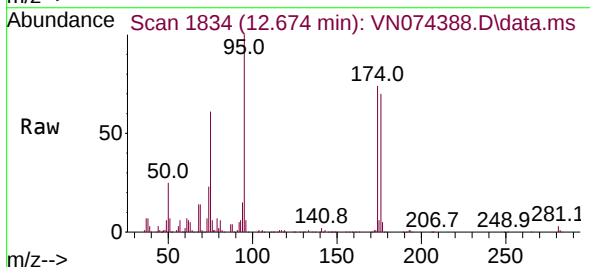
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

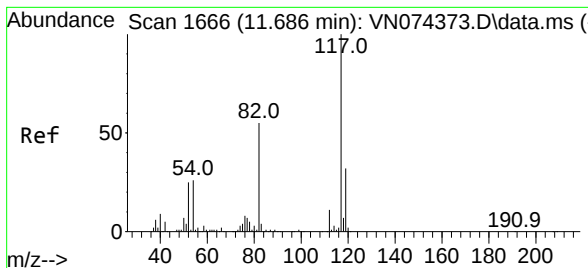
Tgt Ion: 92 Resp: 92928
Ion Ratio Lower Upper
92 100
91 173.5 139.8 209.6



#62
4-Bromofluorobenzene
Concen: 48.707 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.000 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 95 Resp: 266062
Ion Ratio Lower Upper
95 100
174 73.6 0.0 150.6
176 70.6 0.0 143.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN074388.D

Acq: 09 Sep 2022 21:23

Instrument :

MSVOA_N

ClientSampleId :

BR-03D-479.5-499.5-083122-H

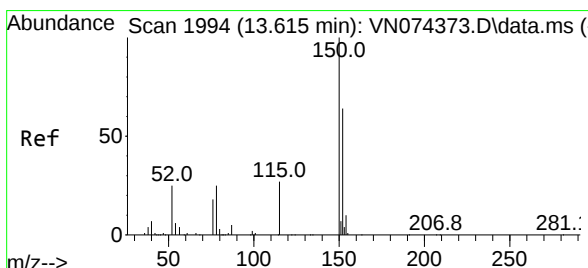
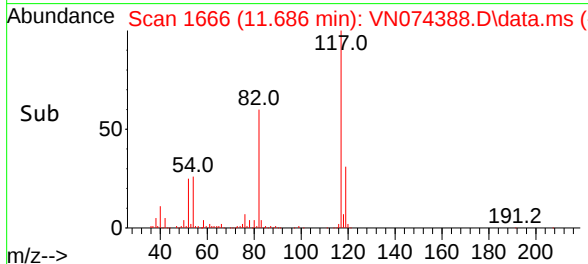
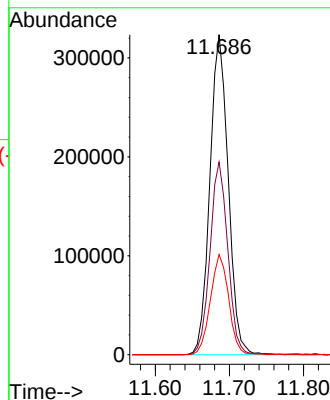
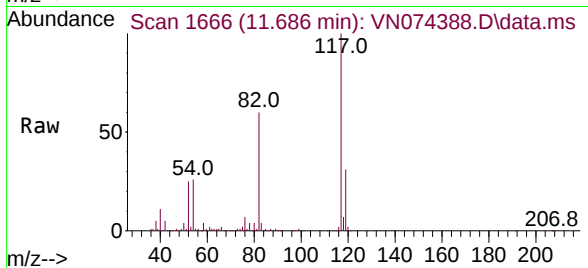
Tgt Ion:117 Resp: 555694

Ion Ratio Lower Upper

117 100

82 60.2 44.3 66.5

119 31.3 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.615 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VN074388.D

Acq: 09 Sep 2022 21:23

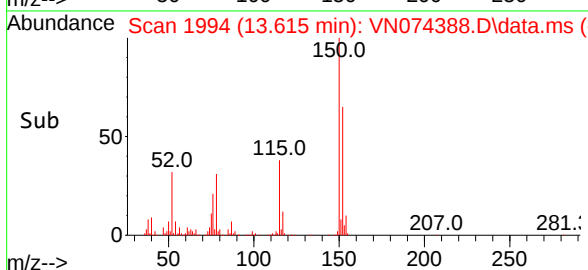
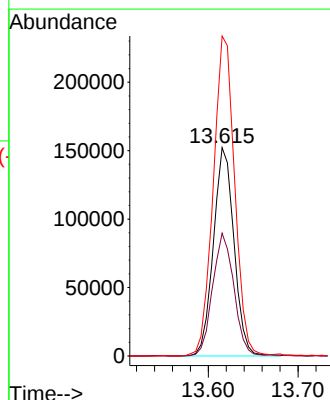
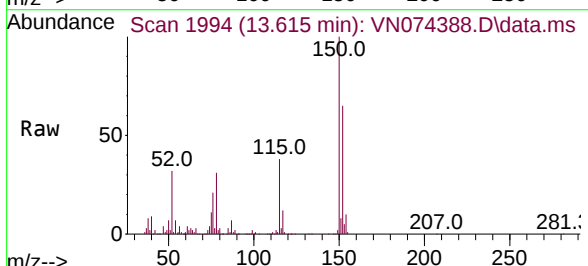
Tgt Ion:152 Resp: 242660

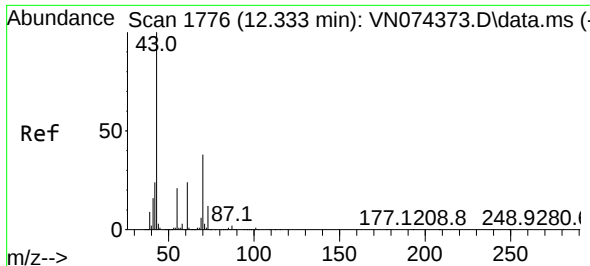
Ion Ratio Lower Upper

152 100

115 60.6 32.0 96.0

150 159.9 0.0 359.6

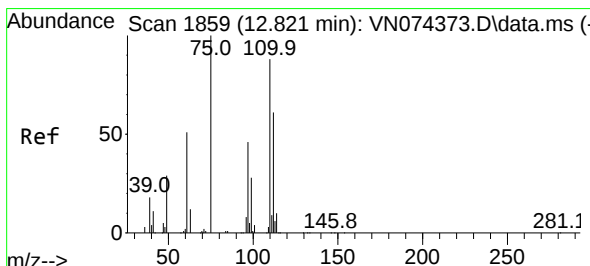
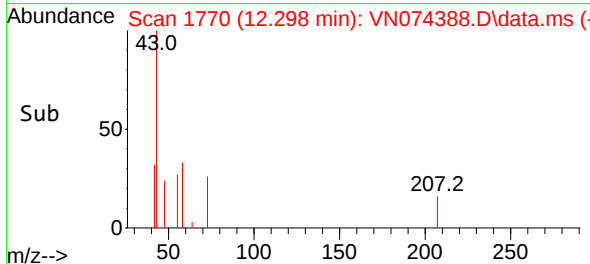
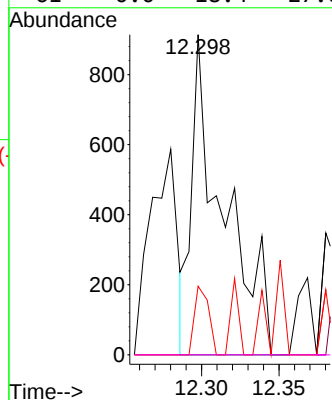
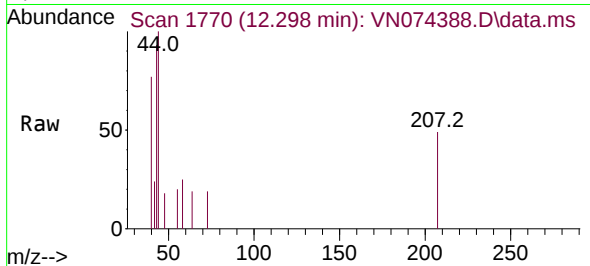




#74
N-amy1 acetate
Concen: Below Cal
RT: 12.298 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

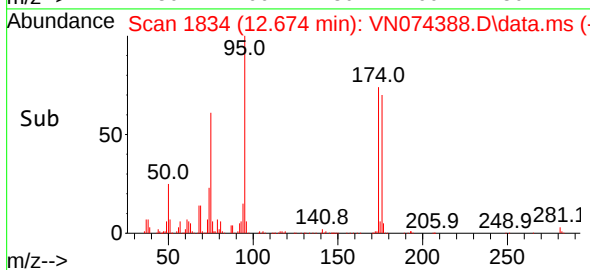
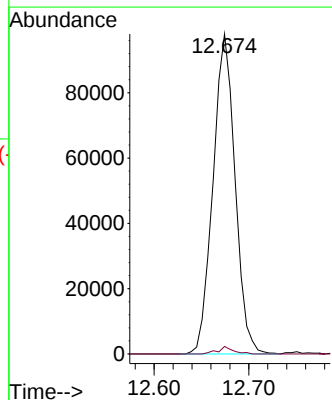
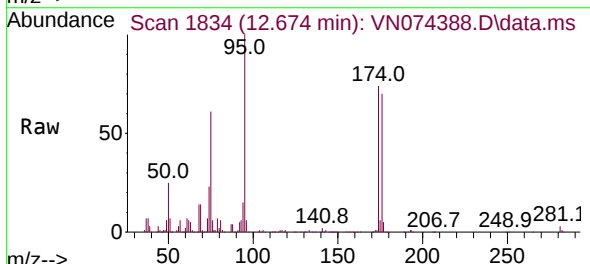
Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

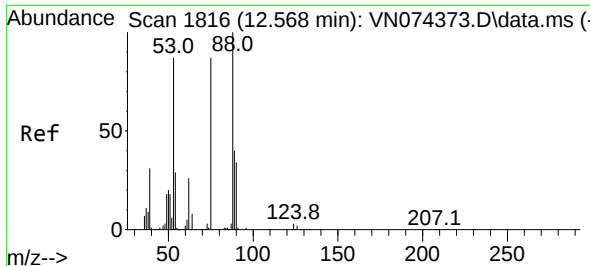
Tgt Ion: 43 Resp: 1286
Ion Ratio Lower Upper
43 100
70 0.0 31.4 47.0#
55 9.6 17.0 25.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 24.999 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 75 Resp: 158581
Ion Ratio Lower Upper
75 100
77 1.6 78.9 236.7#

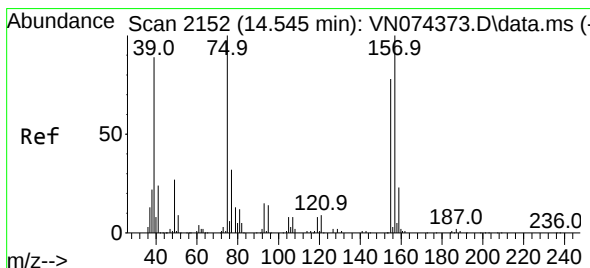
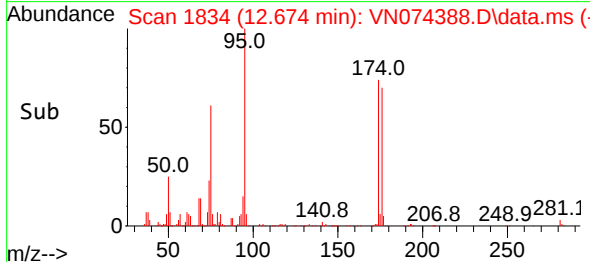
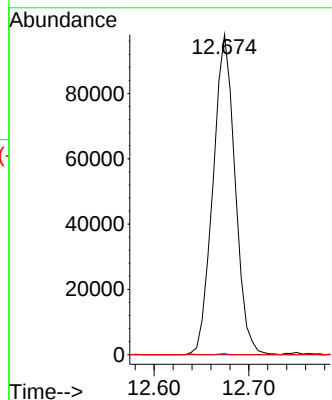
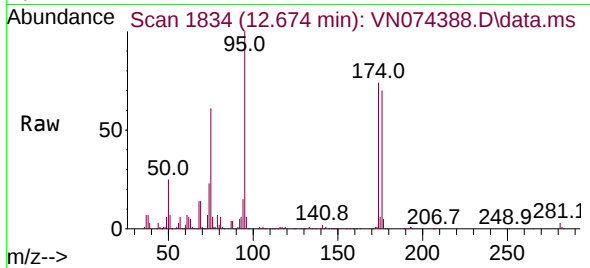




#81
trans-1,4-Dichloro-2-butene
Concen: 55.722 ug/l
RT: 12.674 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Instrument :
MSVOA_N
ClientSampleId :
BR-03D-479.5-499.5-083122-H

Tgt Ion: 75 Resp: 158581
Ion Ratio Lower Upper
75 100
53 0.0 82.2 123.2#
89 0.1 37.7 56.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.539 min Scan# 2151
Delta R.T. -0.006 min
Lab File: VN074388.D
Acq: 09 Sep 2022 21:23

Tgt Ion: 75 Resp: 108
Ion Ratio Lower Upper
75 100
155 0.0 36.6 109.9#
157 0.0 46.2 138.5#

