

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091222\
 Data File : VN074429.D
 Acq On : 13 Sep 2022 00:35
 Operator : JC\MD
 Sample : N4502-02 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW5-GW-238-240

Quant Time: Sep 13 06:55:19 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)

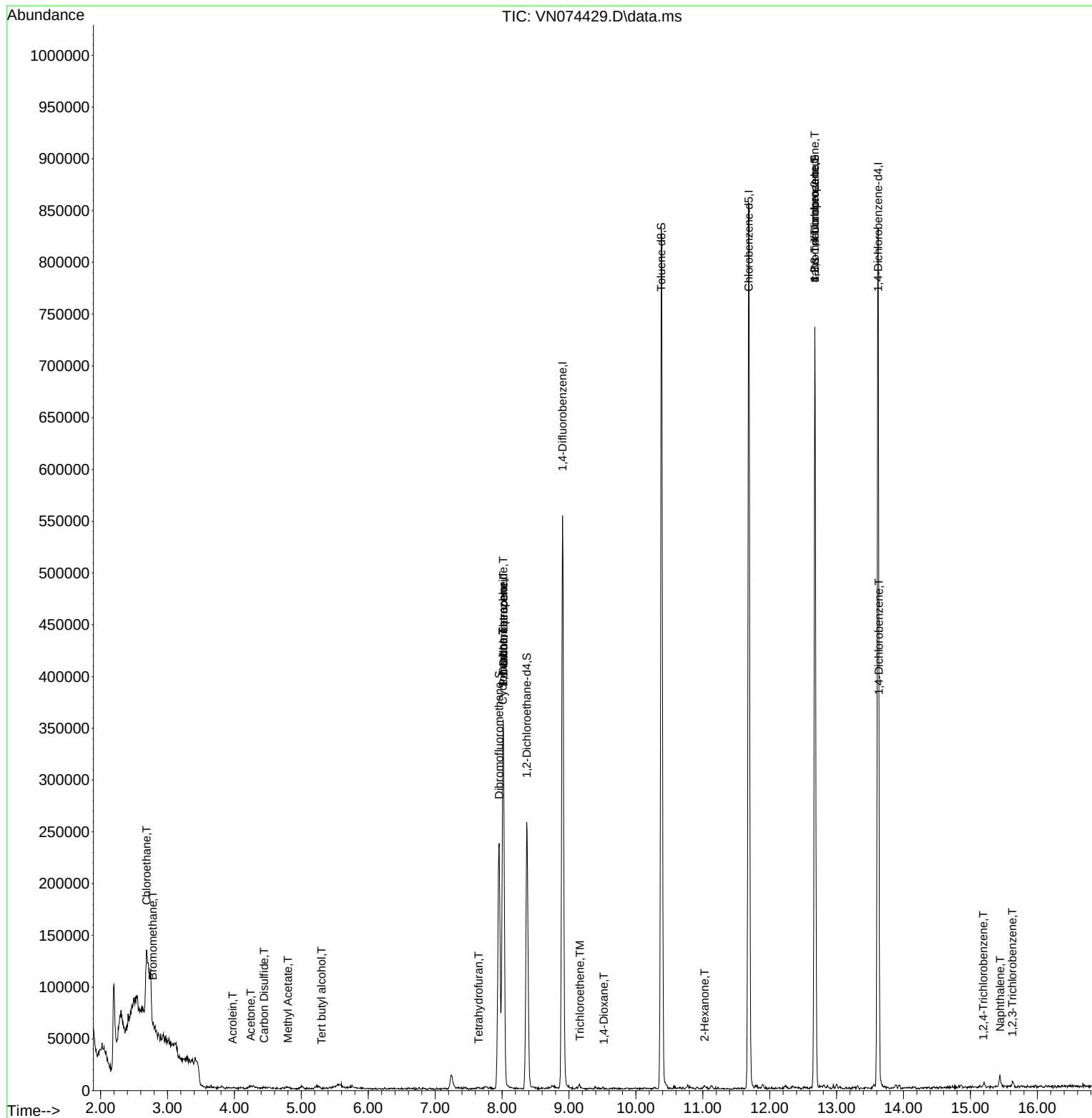
Internal Standards						
1) Pentafluorobenzene	8.022	168	255329	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	442203	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	434400	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.621	152	200585	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	199056	45.060	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.120%		
35) Dibromofluoromethane	7.957	113	161494	54.096	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.200%		
50) Toluene-d8	10.380	98	540377	46.456	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.920%		
62) 4-Bromofluorobenzene	12.674	95	210879	49.933	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.860%		
Target Compounds					Qvalue	
3) Chloromethane	2.257	50	1435	Below Cal	#	73
5) Bromomethane	2.781	94	1306	0.338	ug/l #	38
6) Chloroethane	2.687	64	34192	6.202	ug/l #	52
11) Tert butyl alcohol	5.304	59	326	0.282	ug/l #	71
13) Acrolein	3.975	56	245	0.319	ug/l #	24
16) Acetone	4.245	43	3477	1.458	ug/l #	64
17) Carbon Disulfide	4.445	76	2386	0.276	ug/l #	77
18) Methyl Acetate	4.798	43	2661	0.378	ug/l #	87
20) Methylene Chloride	5.004	84	996	Below Cal	#	26
28) Bromochloromethane	7.580	49	64	Below Cal	#	20
29) Tetrahydrofuran	7.651	42	1135	0.429	ug/l #	46
31) Cyclohexane	8.010	56	8485	1.208	ug/l #	1
36) 1,1-Dichloropropene	8.022	75	24358	4.953	ug/l #	50
38) Carbon Tetrachloride	8.016	117	28083	5.531	ug/l #	15
44) Trichloroethene	9.163	130	991	0.294	ug/l	65
49) 1,4-Dioxane	9.522	88	67	0.618	ug/l #	1
59) 2-Hexanone	11.027	43	2710	0.460	ug/l	79
74) N-amyl acetate	12.327	43	996	Below Cal	#	53
76) 1,2,3-Trichloropropane	12.674	75	130863	24.957	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	130863	55.628	ug/l #	9
88) 1,4-Dichlorobenzene	13.633	146	1757	0.227	ug/l #	1
92) 1,2-Dibromo-3-Chloropr...	14.545	75	191	Below Cal	#	29
93) 1,2,4-Trichlorobenzene	15.192	180	1300	0.324	ug/l	95
95) Naphthalene	15.445	128	9392	0.599	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.627	180	1809	0.436	ug/l #	46

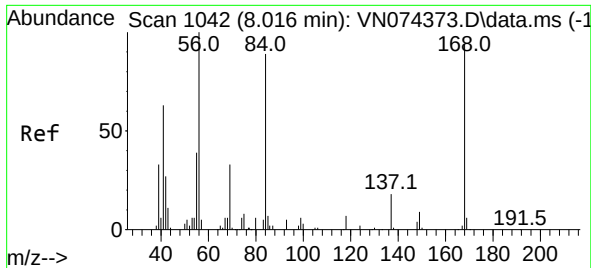
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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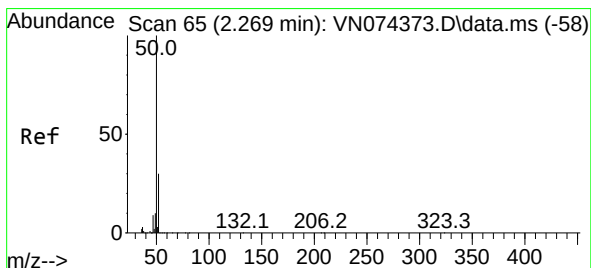
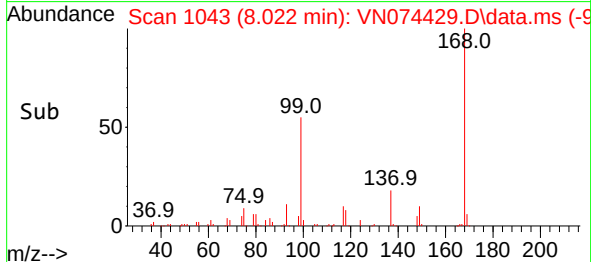
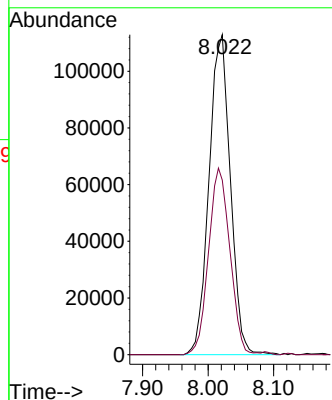
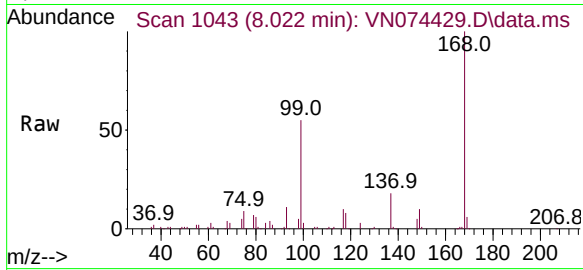




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

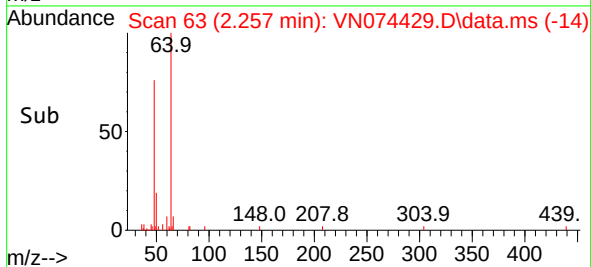
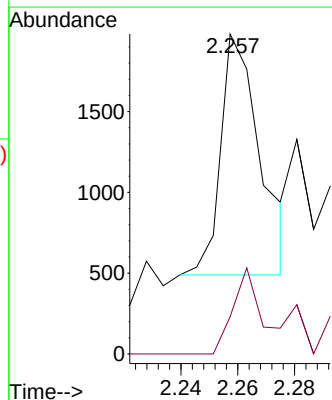
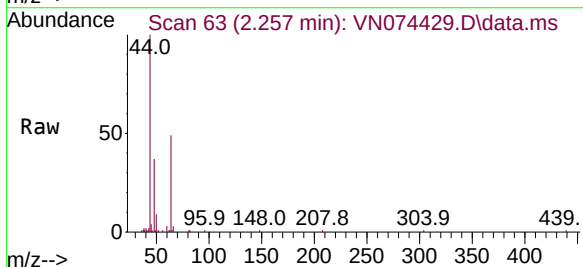
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

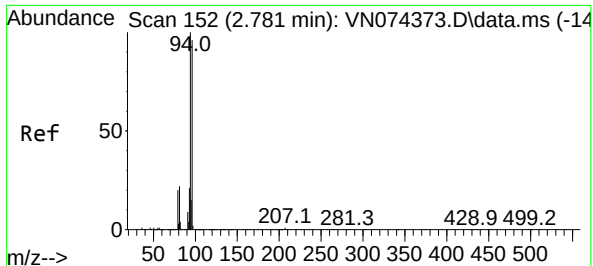
Tgt Ion:168 Resp: 255329
Ion Ratio Lower Upper
168 100
99 54.5 52.8 79.2



#3
Chloromethane
Concen: Below Cal
RT: 2.257 min Scan# 63
Delta R.T. -0.012 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 50 Resp: 1435
Ion Ratio Lower Upper
50 100
52 15.5 24.1 36.1#

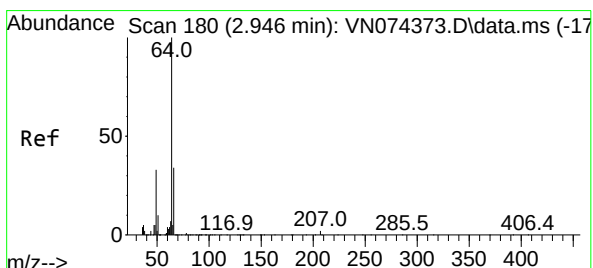
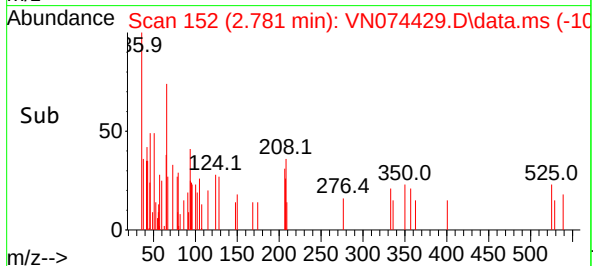
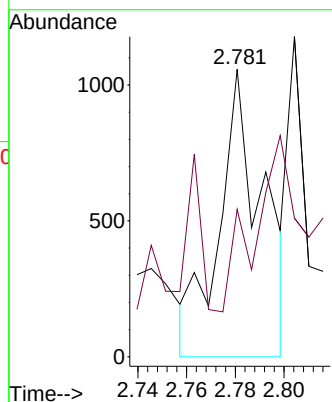
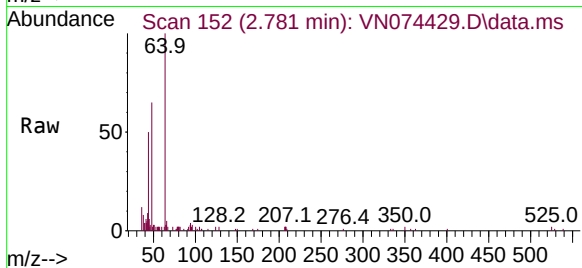




#5
Bromomethane
Concen: 0.338 ug/l
RT: 2.781 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

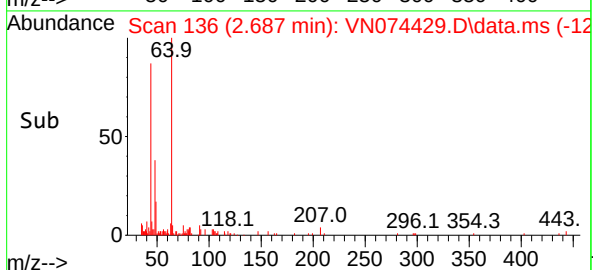
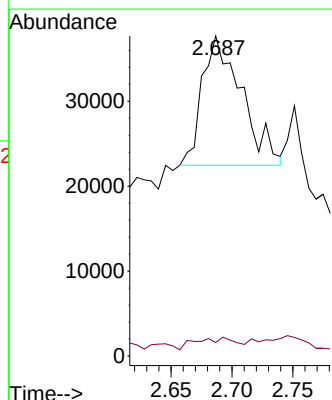
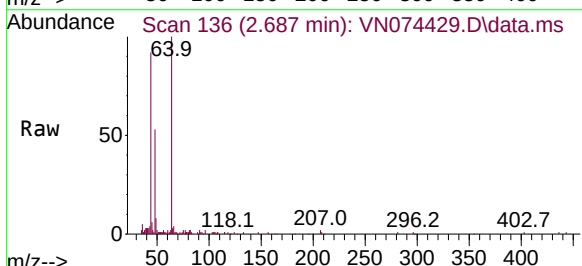
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

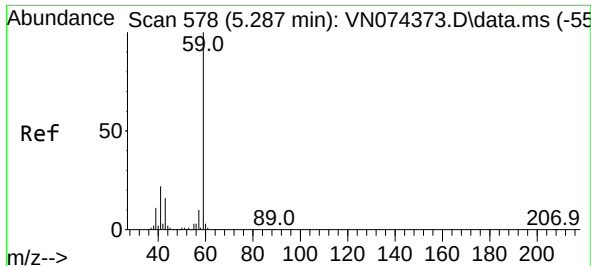
Tgt Ion: 94 Resp: 1306
Ion Ratio Lower Upper
94 100
96 34.9 76.7 115.1#



#6
Chloroethane
Concen: 6.202 ug/l
RT: 2.687 min Scan# 136
Delta R.T. -0.259 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 64 Resp: 34192
Ion Ratio Lower Upper
64 100
66 5.8 26.5 39.7#





#11

Tert butyl alcohol

Concen: 0.282 ug/l

RT: 5.304 min Scan# 581

Delta R.T. 0.018 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

Instrument :

MSVOA_N

ClientSampleId :

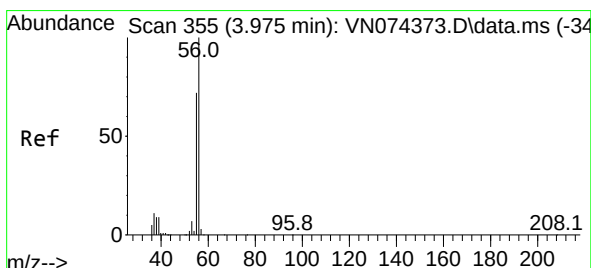
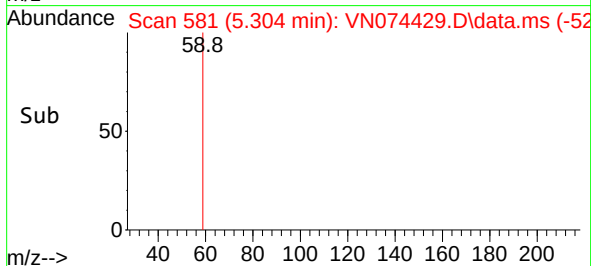
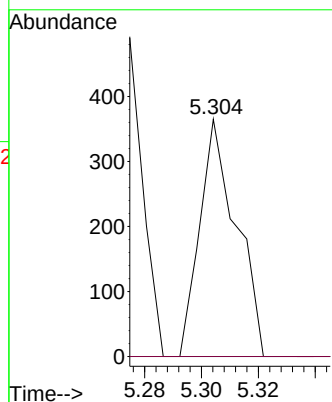
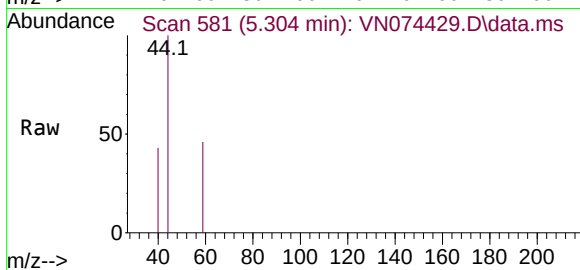
BP-VPB-RW5-GW-238-240

Tgt Ion: 59 Resp: 326

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



#13

Acrolein

Concen: 0.319 ug/l

RT: 3.975 min Scan# 355

Delta R.T. -0.000 min

Lab File: VN074429.D

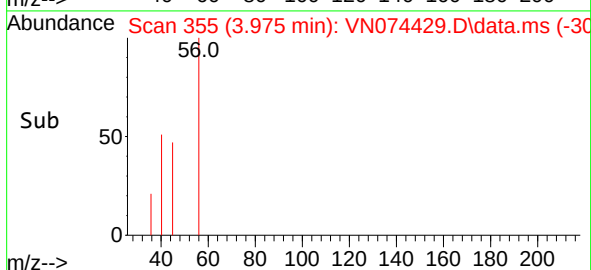
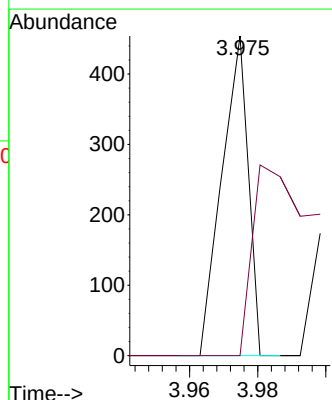
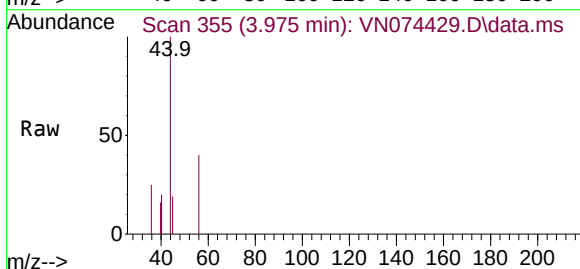
Acq: 13 Sep 2022 00:35

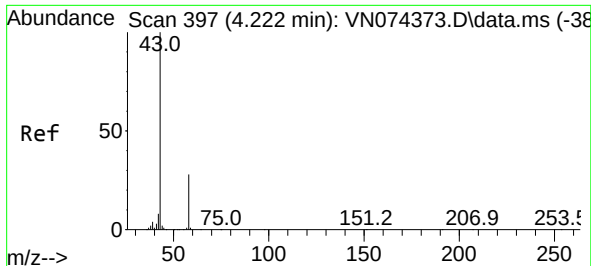
Tgt Ion: 56 Resp: 245

Ion Ratio Lower Upper

56 100

55 133.1 56.2 84.4#

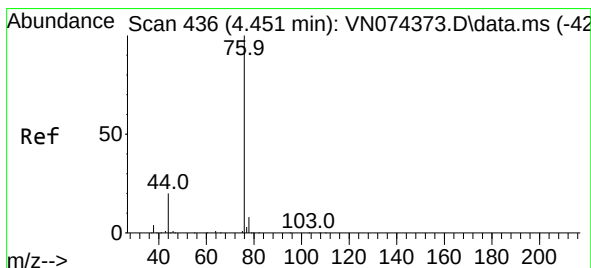
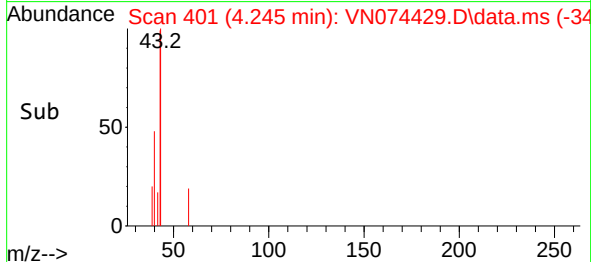
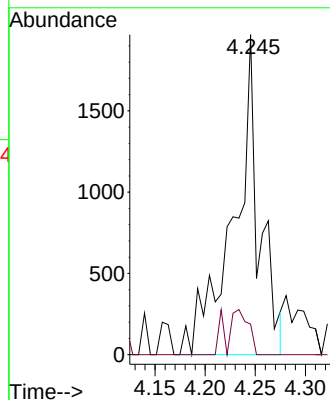
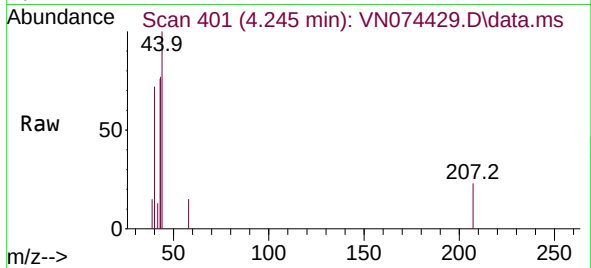




#16
Acetone
Concen: 1.458 ug/l
RT: 4.245 min Scan# 401
Delta R.T. 0.023 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

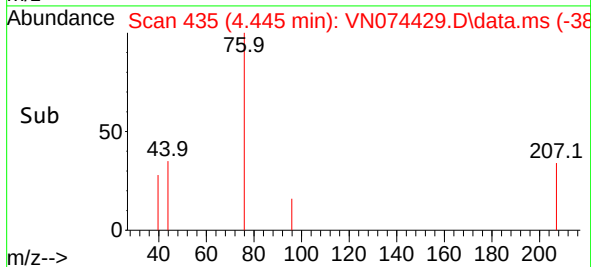
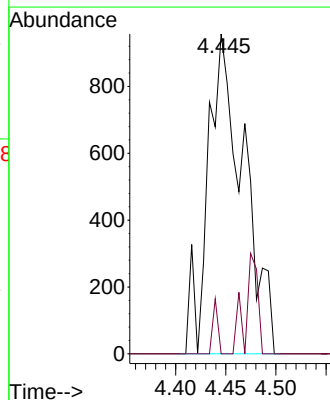
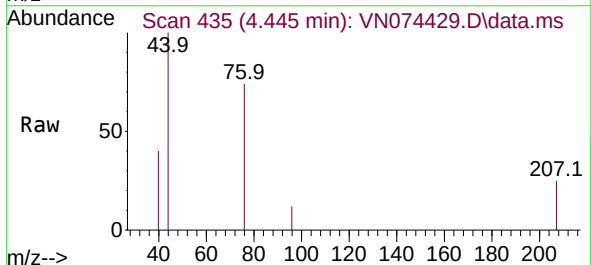
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

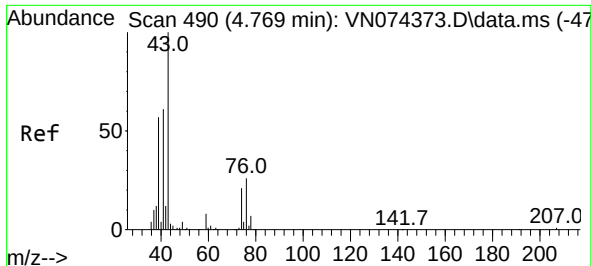
Tgt Ion: 43 Resp: 3477
Ion Ratio Lower Upper
43 100
58 9.5 22.7 34.1#



#17
Carbon Disulfide
Concen: 0.276 ug/l
RT: 4.445 min Scan# 435
Delta R.T. -0.006 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 76 Resp: 2386
Ion Ratio Lower Upper
76 100
78 0.0 6.5 9.7#

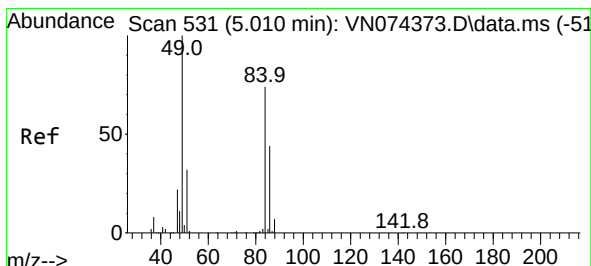
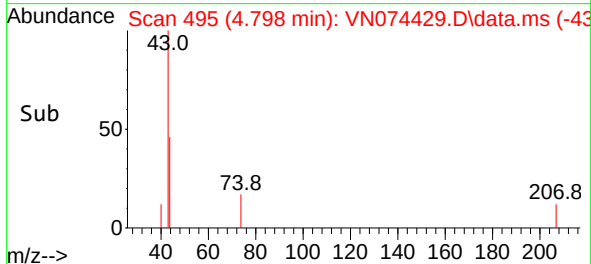
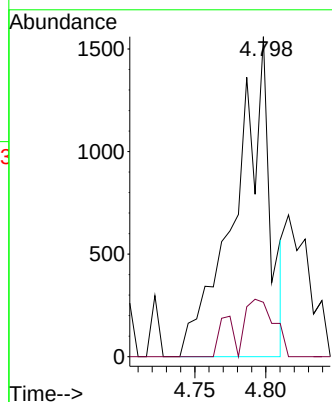
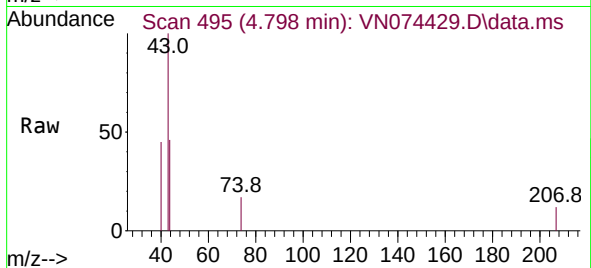




#18
Methyl Acetate
Concen: 0.378 ug/l
RT: 4.798 min Scan# 495
Delta R.T. 0.029 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

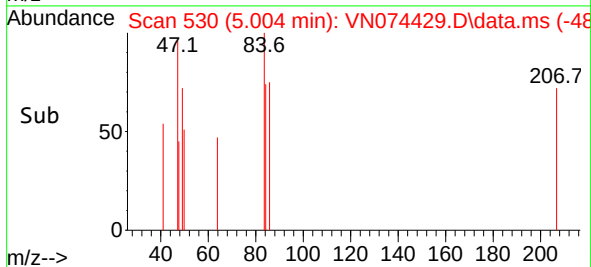
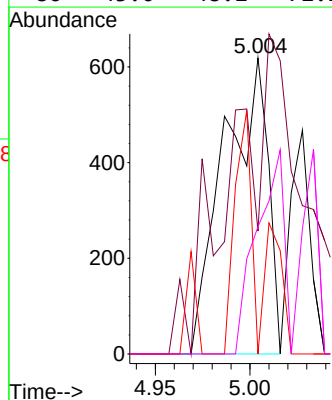
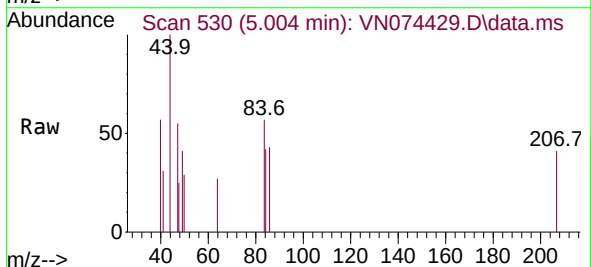
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

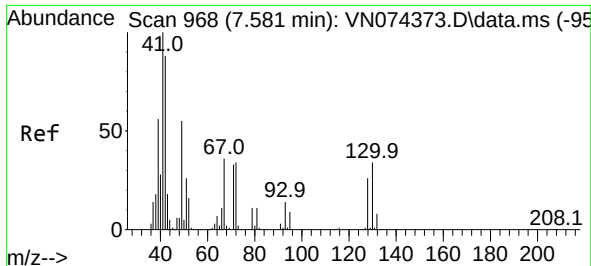
Tgt Ion: 43 Resp: 2661
Ion Ratio Lower Upper
43 100
74 14.7 16.7 25.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.004 min Scan# 530
Delta R.T. -0.006 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 84 Resp: 996
Ion Ratio Lower Upper
84 100
49 16.3 108.2 162.4#
51 0.0 34.3 51.5#
86 43.0 48.2 72.2#

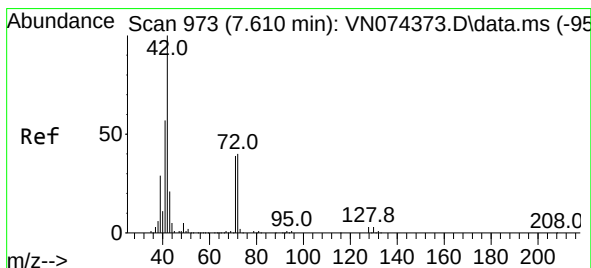
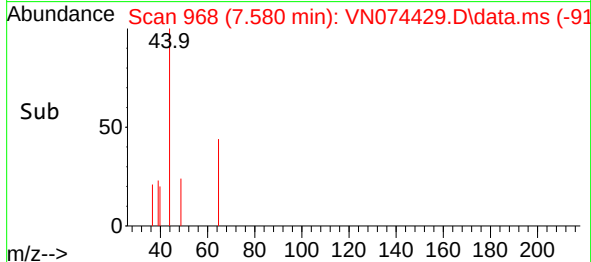
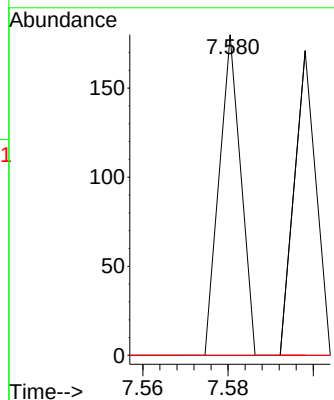
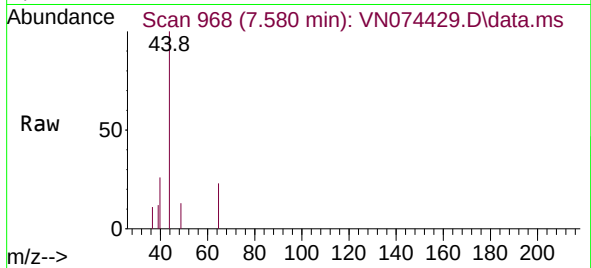




#28
Bromochloromethane
Concen: Below Cal
RT: 7.580 min Scan# 91
Delta R.T. -0.001 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

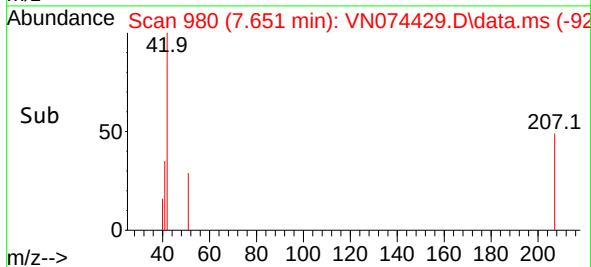
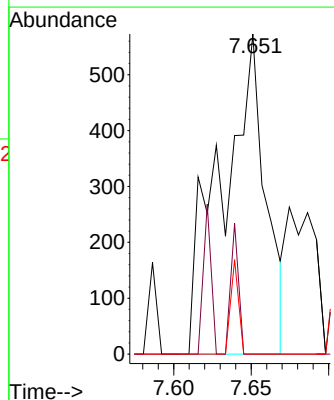
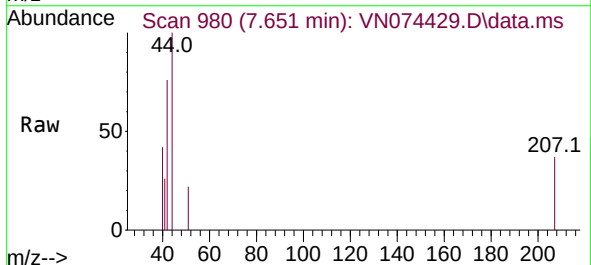
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

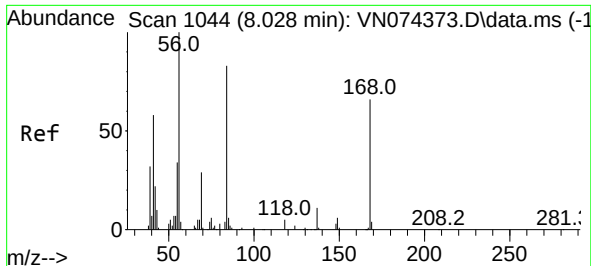
Tgt Ion: 49 Resp: 64
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.2
130 0.0 50.0 75.0#



#29
Tetrahydrofuran
Concen: 0.429 ug/l
RT: 7.651 min Scan# 980
Delta R.T. 0.041 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 42 Resp: 1135
Ion Ratio Lower Upper
42 100
72 7.3 32.7 49.1#
71 5.3 31.0 46.6#

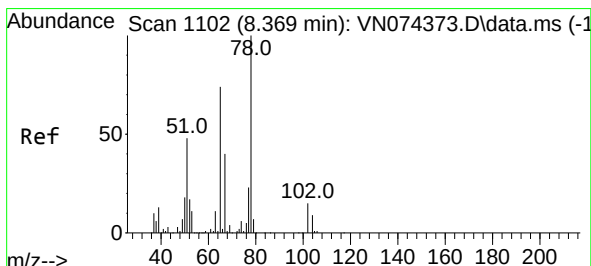
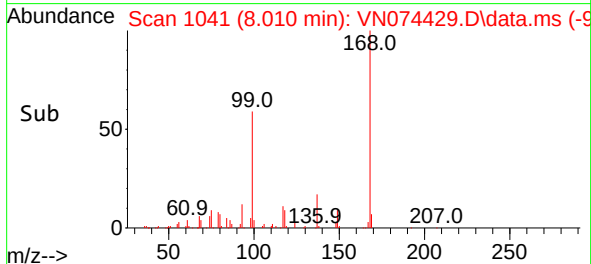
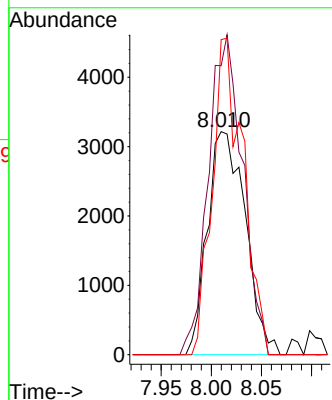
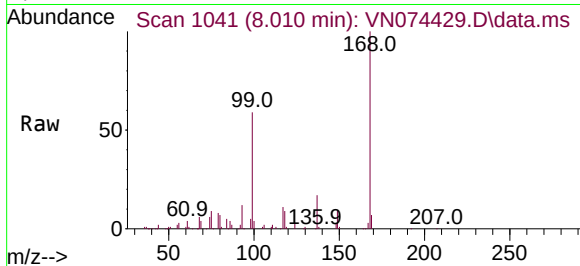




#31
Cyclohexane
Concen: 1.208 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.018 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

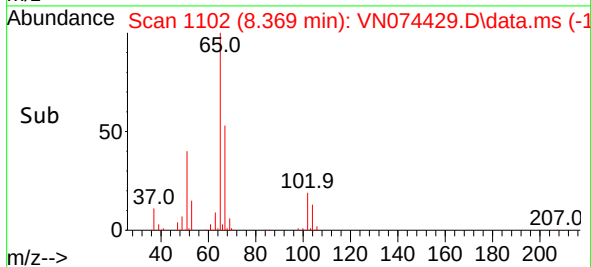
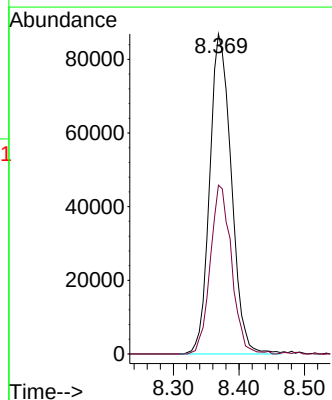
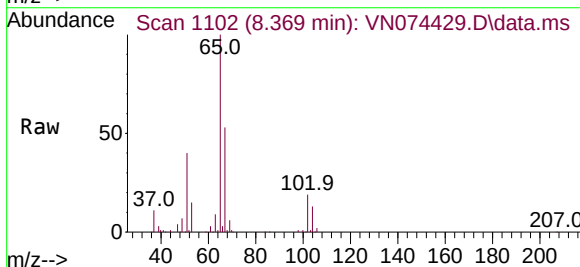
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

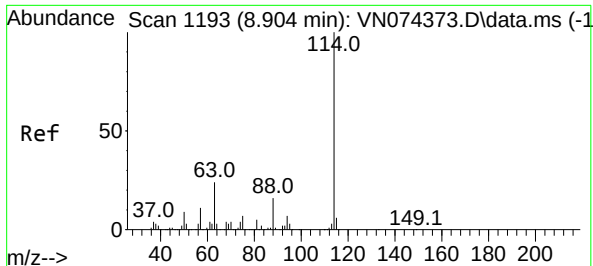
Tgt Ion: 56 Resp: 8485
Ion Ratio Lower Upper
56 100
69 129.5 23.0 34.4#
84 146.6 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 45.060 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 65 Resp: 199056
Ion Ratio Lower Upper
65 100
67 51.8 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: VN074429.D

Acq: 13 Sep 2022 00:35

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW5-GW-238-240

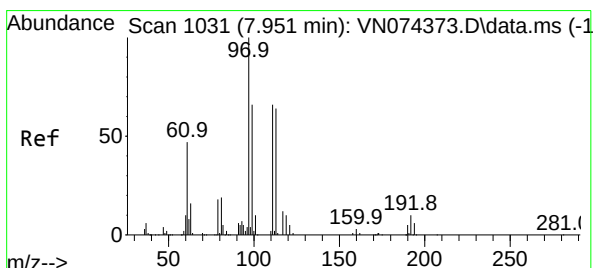
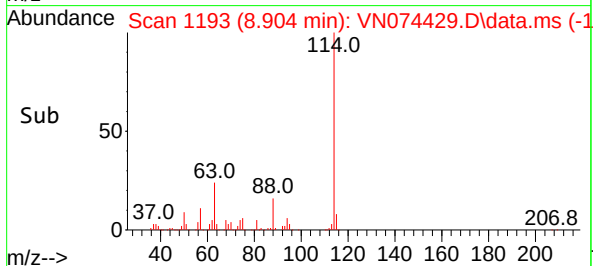
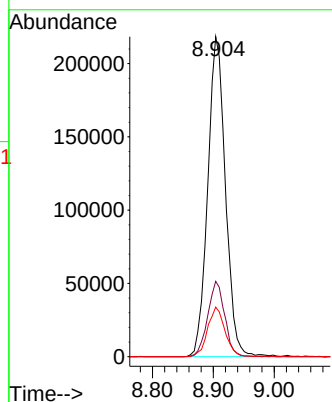
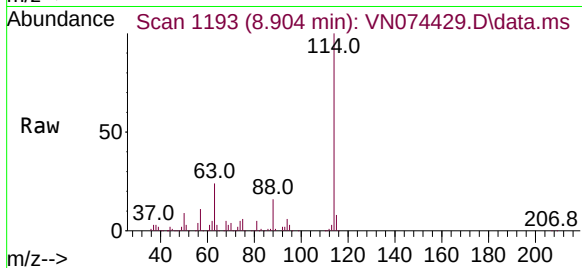
Tgt Ion:114 Resp: 442203

Ion Ratio Lower Upper

114 100

63 23.5 0.0 47.6

88 15.5 0.0 31.4



#35

Dibromofluoromethane

Concen: 54.096 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

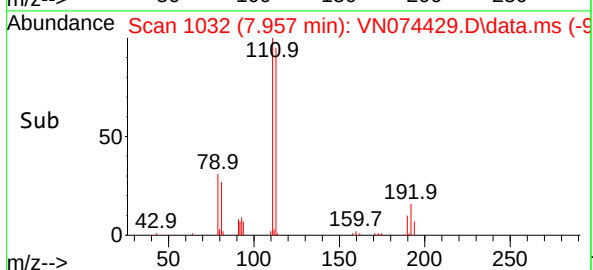
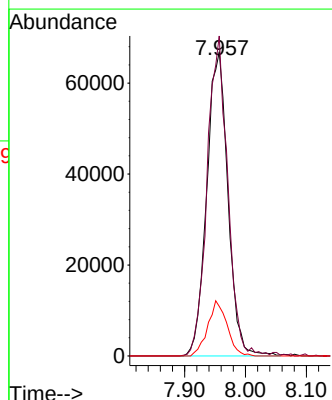
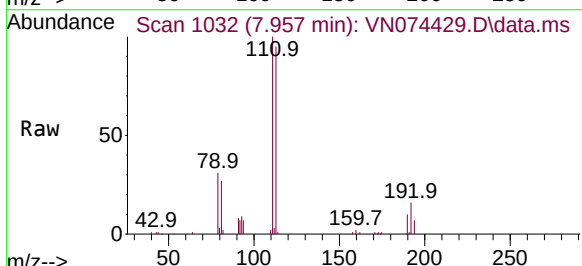
Tgt Ion:113 Resp: 161494

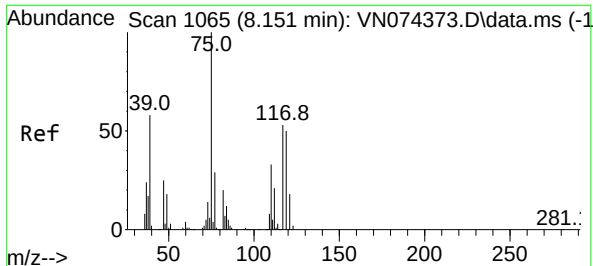
Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.4

192 16.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.953 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.129 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW5-GW-238-240

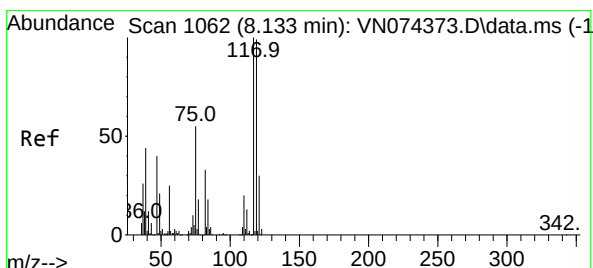
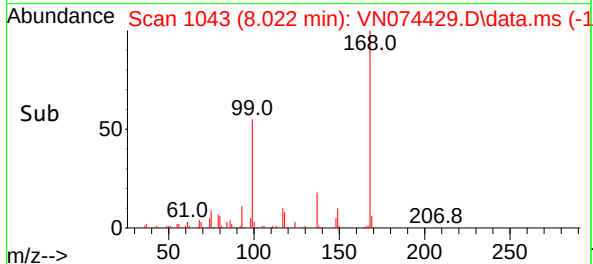
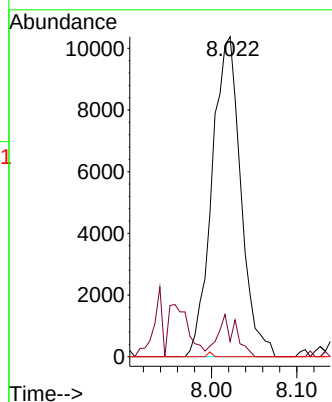
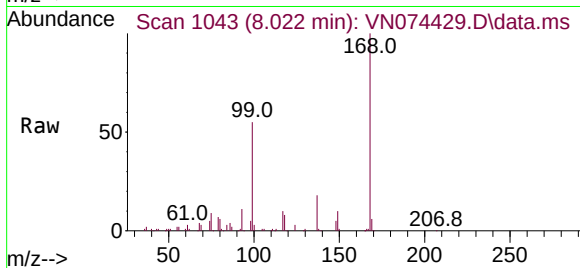
Tgt Ion: 75 Resp: 24358

Ion Ratio Lower Upper

75 100

110 8.3 16.4 49.1#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 5.531 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.118 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

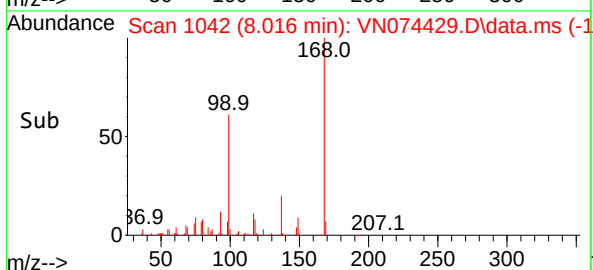
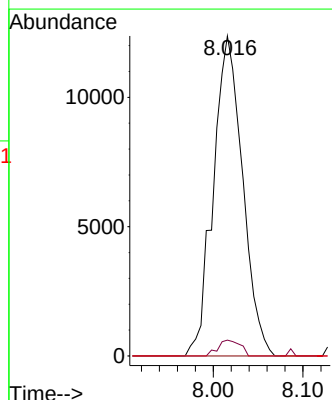
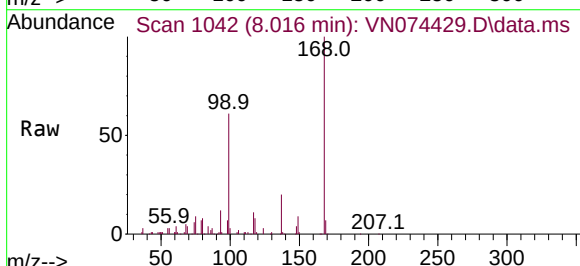
Tgt Ion: 117 Resp: 28083

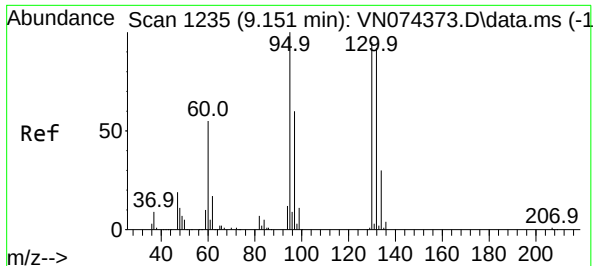
Ion Ratio Lower Upper

117 100

119 4.9 78.8 118.2#

121 0.0 24.1 36.1#





#44

Trichloroethene

Concen: 0.294 ug/l

RT: 9.163 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

Instrument :

MSVOA_N

ClientSampleId :

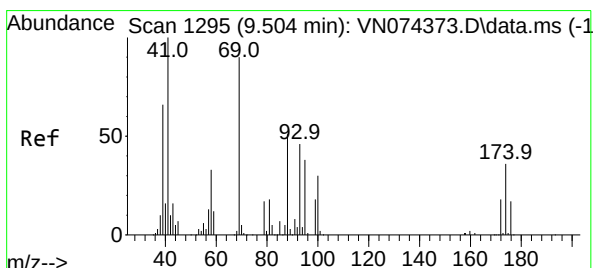
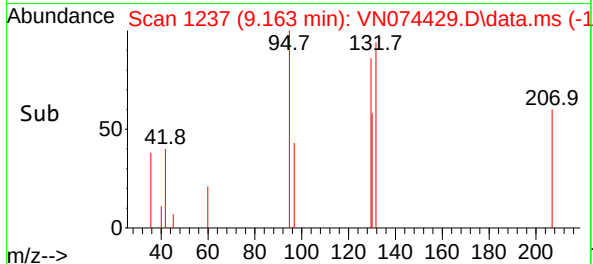
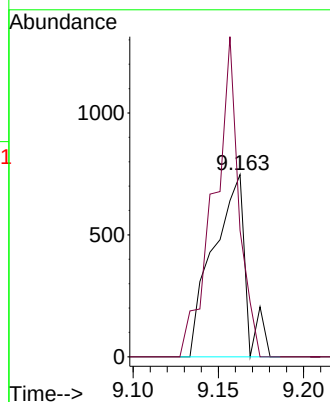
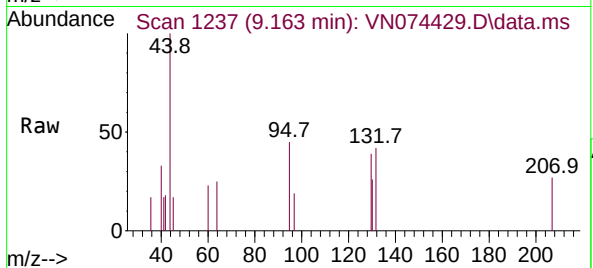
BP-VPB-RW5-GW-238-240

Tgt Ion:130 Resp: 991

Ion Ratio Lower Upper

130 100

95 69.3 0.0 210.0



#49

1,4-Dioxane

Concen: 0.618 ug/l

RT: 9.522 min Scan# 1298

Delta R.T. 0.018 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

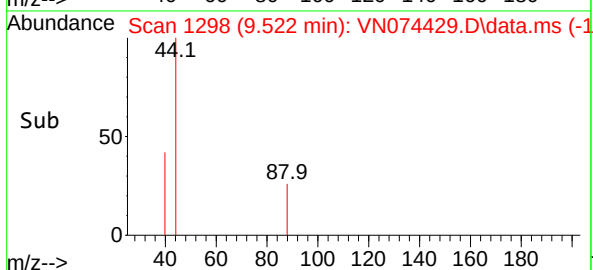
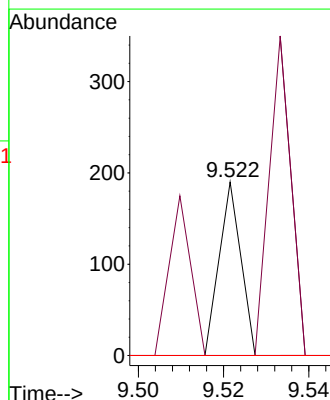
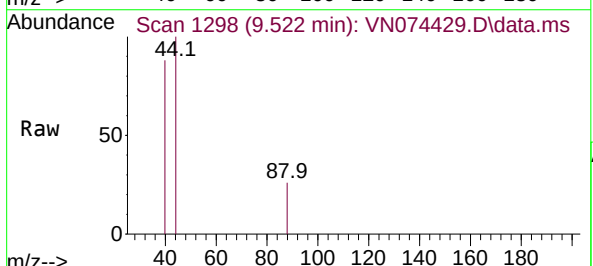
Tgt Ion: 88 Resp: 67

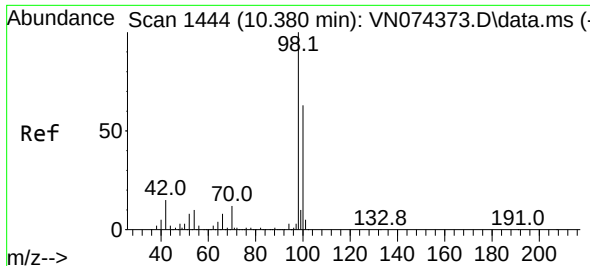
Ion Ratio Lower Upper

88 100

43 185.1 26.9 40.3#

58 0.0 52.7 79.1#

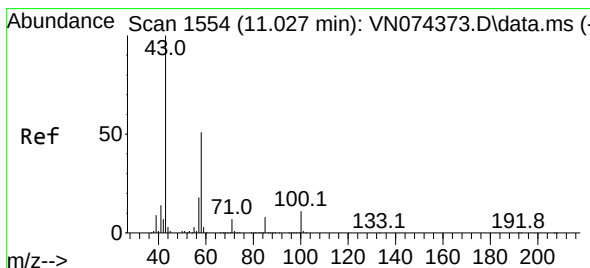
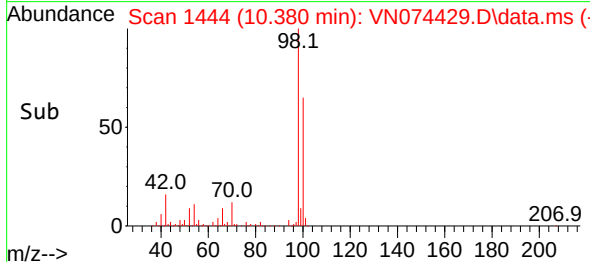
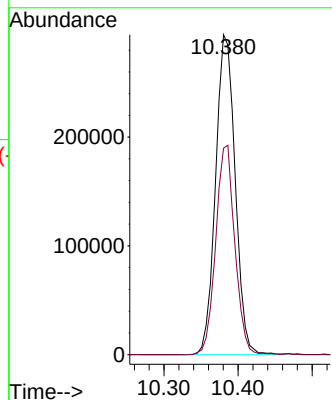
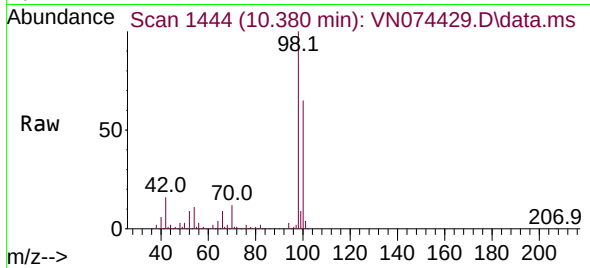




#50
Toluene-d8
Concen: 46.456 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

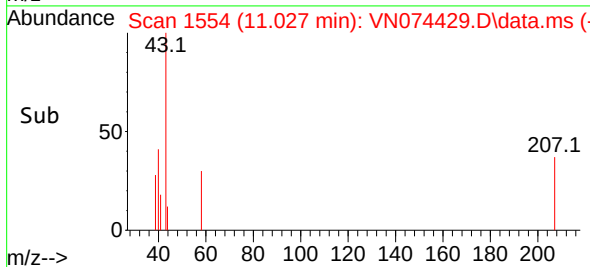
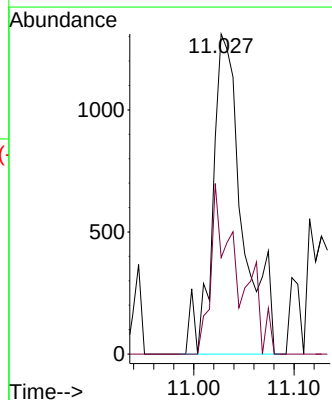
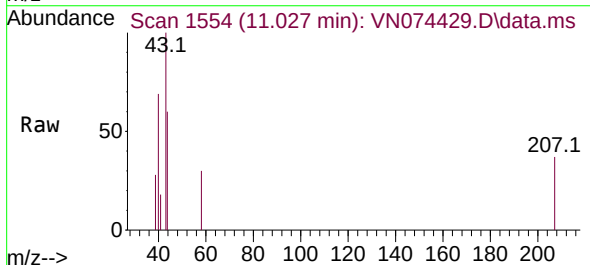
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

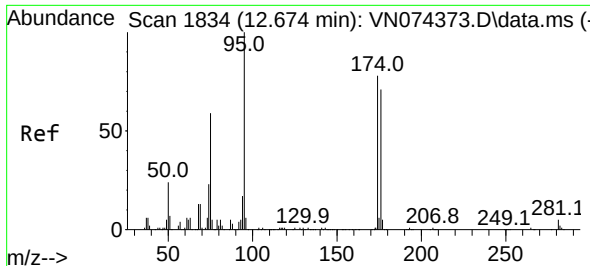
Tgt Ion: 98 Resp: 540377
Ion Ratio Lower Upper
98 100
100 63.9 50.6 76.0



#59
2-Hexanone
Concen: 0.460 ug/l
RT: 11.027 min Scan# 1554
Delta R.T. -0.000 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 43 Resp: 2710
Ion Ratio Lower Upper
43 100
58 37.1 25.8 77.3

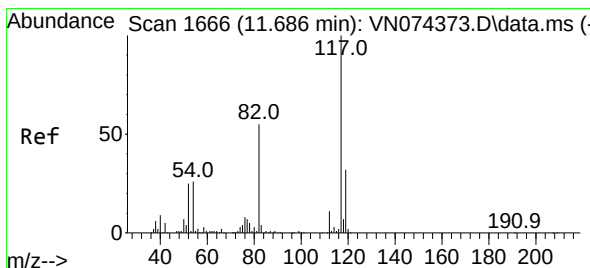
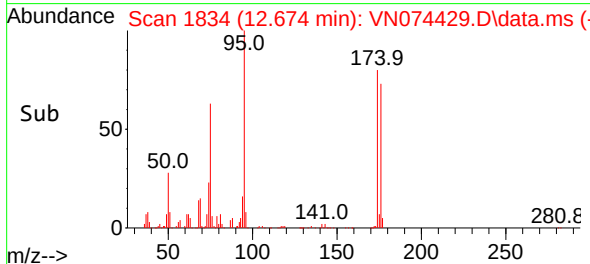
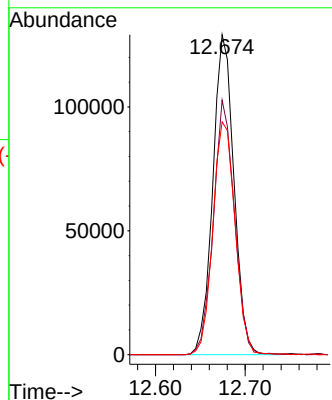
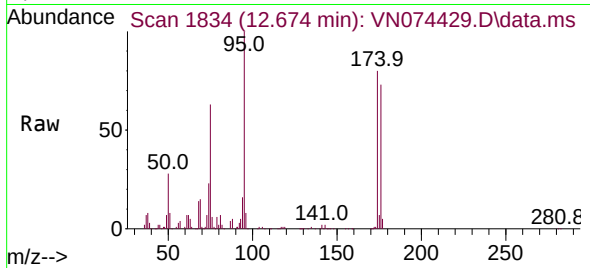




#62
4-Bromofluorobenzene
Concen: 49.933 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.000 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

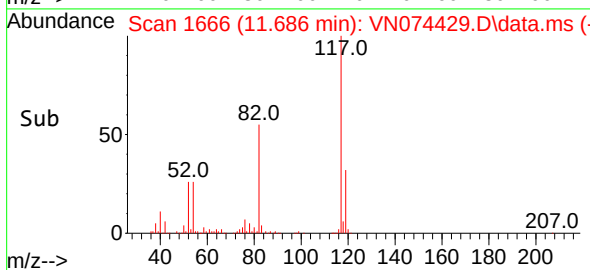
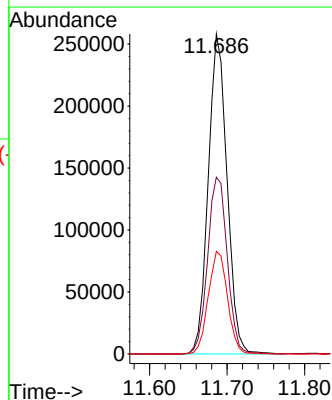
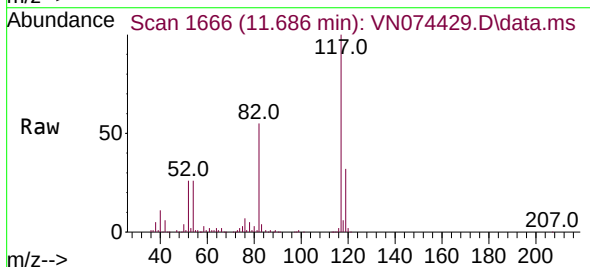
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

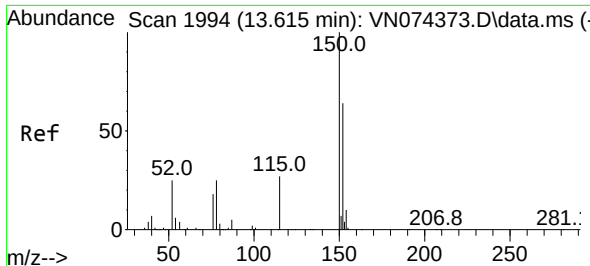
Tgt Ion: 95 Resp: 210879
Ion Ratio Lower Upper
95 100
174 79.5 0.0 150.6
176 76.7 0.0 143.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. -0.000 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 117 Resp: 434400
Ion Ratio Lower Upper
117 100
82 55.3 44.3 66.5
119 32.1 25.5 38.3

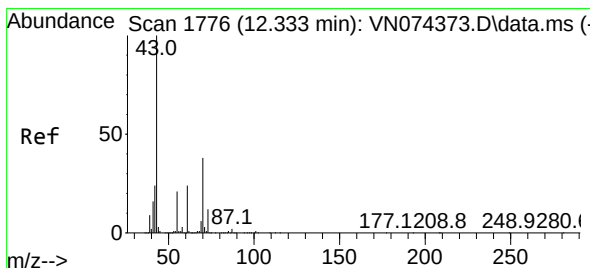
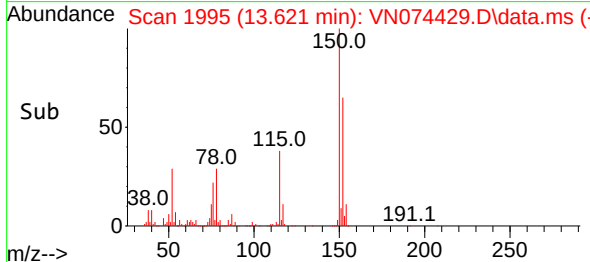
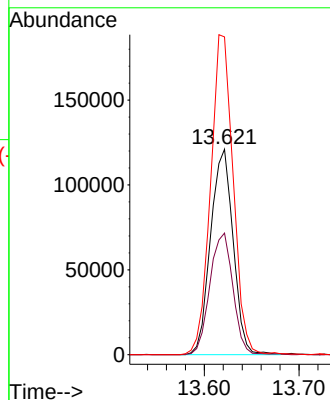
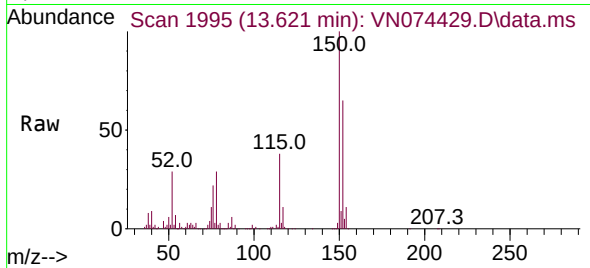




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.621 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

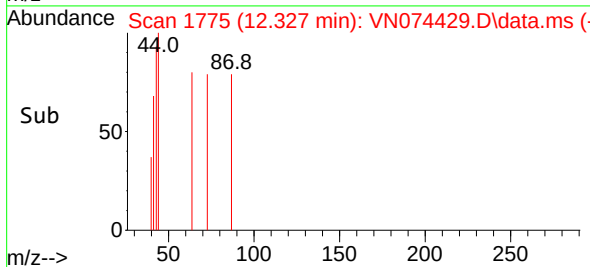
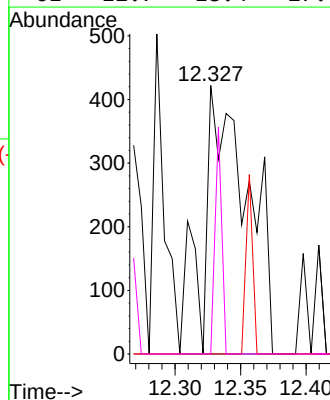
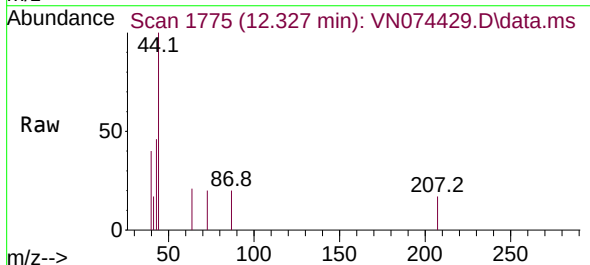
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

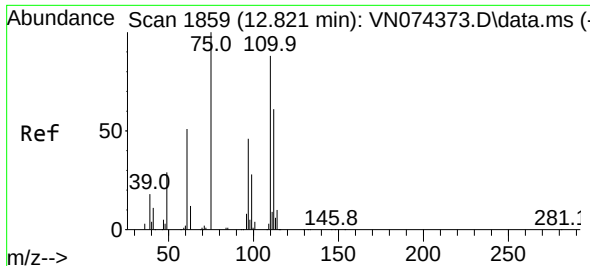
Tgt Ion:152 Resp: 200585
Ion Ratio Lower Upper
152 100
115 60.5 32.0 96.0
150 156.0 0.0 359.6



#74
N-ethyl acetate
Concen: Below Cal
RT: 12.327 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 43 Resp: 996
Ion Ratio Lower Upper
43 100
70 0.0 31.4 47.0#
55 0.0 17.0 25.6#
61 12.7 18.4 27.6#

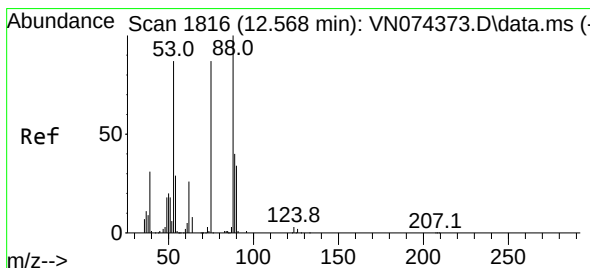
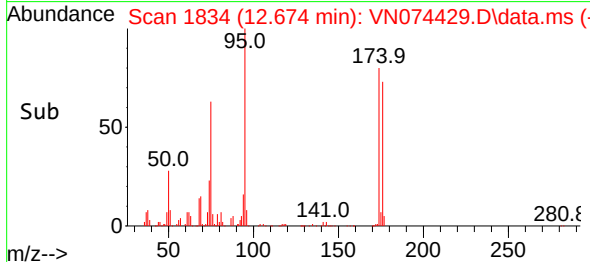
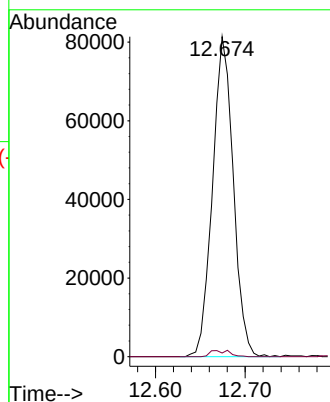
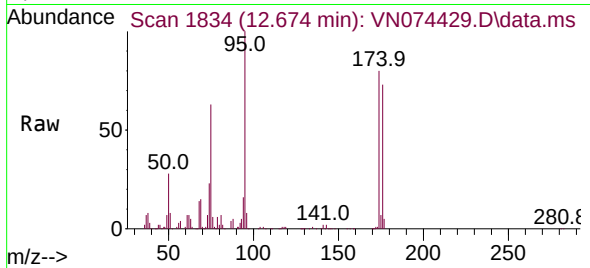




#76
1,2,3-Trichloropropane
Concen: 24.957 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

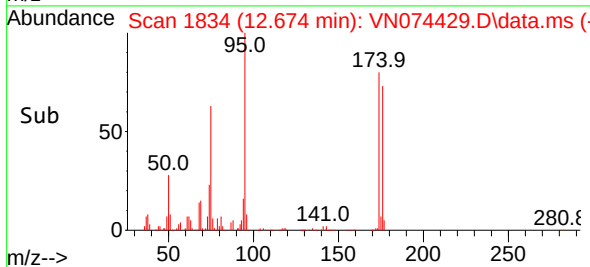
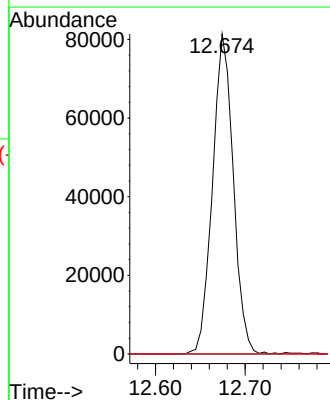
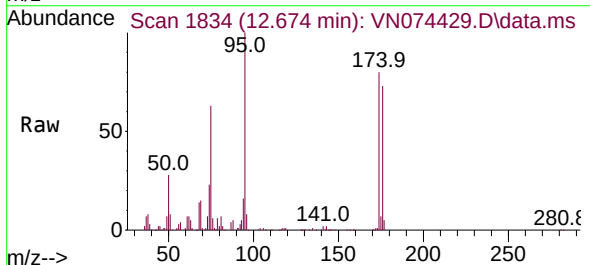
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW5-GW-238-240

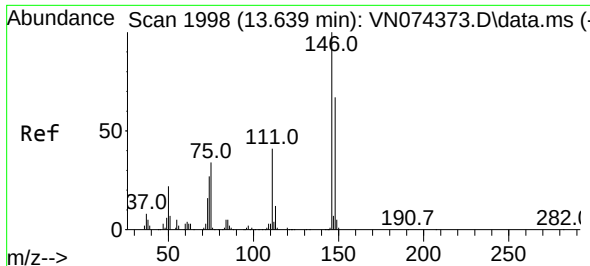
Tgt Ion: 75 Resp: 130863
Ion Ratio Lower Upper
75 100
77 1.8 78.9 236.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.628 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074429.D
Acq: 13 Sep 2022 00:35

Tgt Ion: 75 Resp: 130863
Ion Ratio Lower Upper
75 100
53 0.0 82.2 123.2#
89 0.0 37.7 56.5#

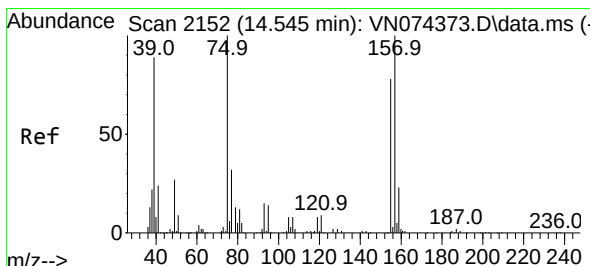
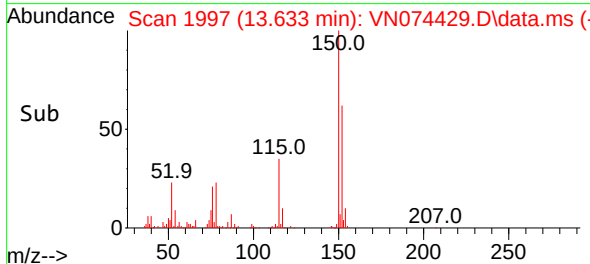
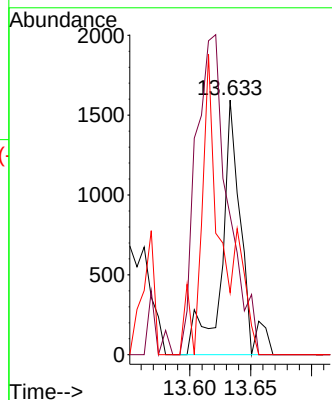
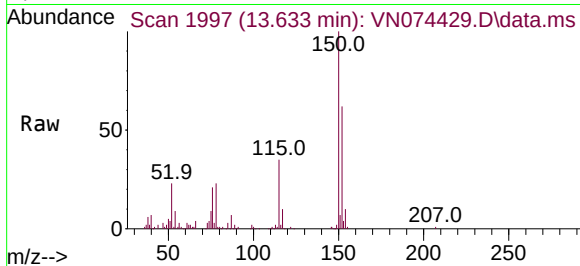




#88
 1,4-Dichlorobenzene
 Concen: 0.227 ug/l
 RT: 13.633 min Scan# 1998
 Delta R.T. -0.006 min
 Lab File: VN074429.D
 Acq: 13 Sep 2022 00:35

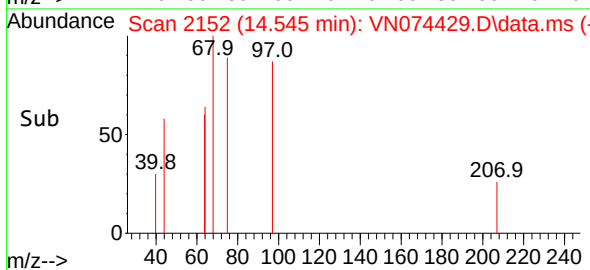
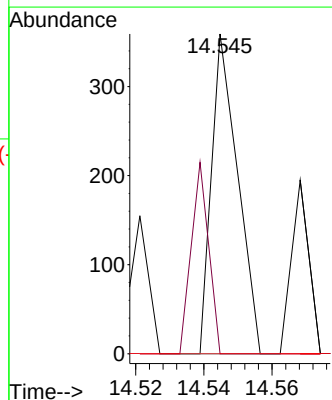
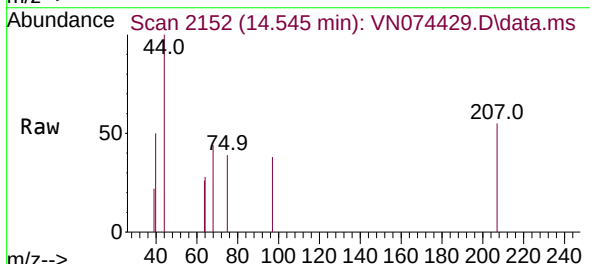
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW5-GW-238-240

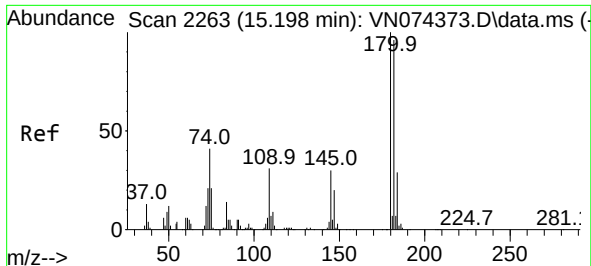
Tgt Ion:146 Resp: 1757
 Ion Ratio Lower Upper
 146 100
 111 208.3 20.8 62.2#
 148 100.1 32.1 96.5#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.545 min Scan# 2152
 Delta R.T. -0.000 min
 Lab File: VN074429.D
 Acq: 13 Sep 2022 00:35

Tgt Ion: 75 Resp: 191
 Ion Ratio Lower Upper
 75 100
 155 39.8 36.6 109.9
 157 0.0 46.2 138.5#





#93

1,2,4-Trichlorobenzene

Concen: 0.324 ug/l

RT: 15.192 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW5-GW-238-240

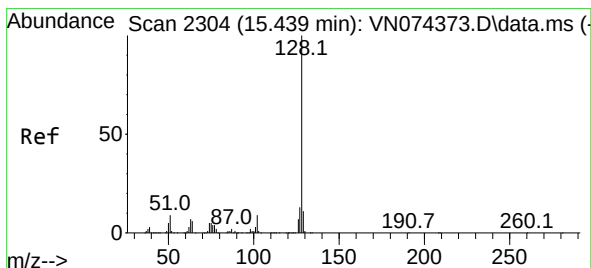
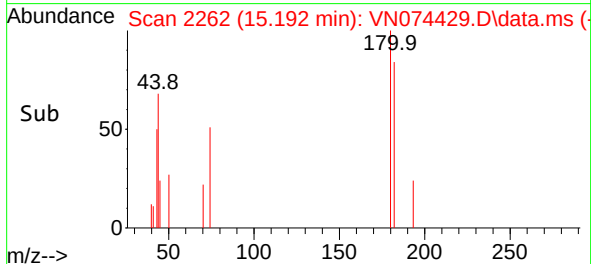
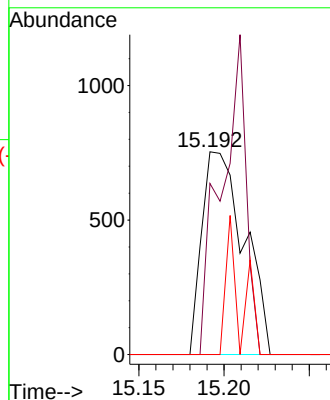
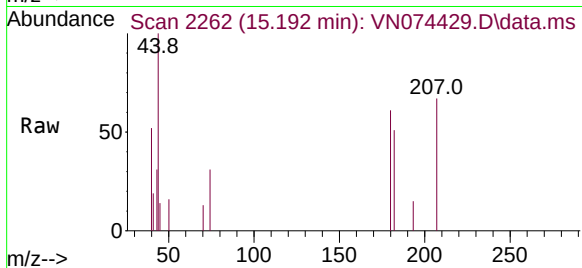
Tgt Ion:180 Resp: 1300

Ion Ratio Lower Upper

180 100

182 93.4 47.4 142.2

145 23.6 16.1 48.2



#95

Naphthalene

Concen: 0.599 ug/l

RT: 15.445 min Scan# 2305

Delta R.T. 0.006 min

Lab File: VN074429.D

Acq: 13 Sep 2022 00:35

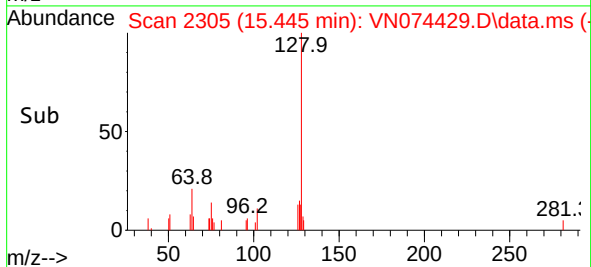
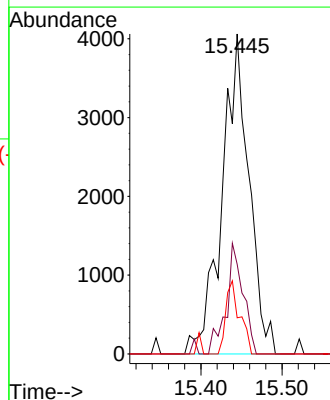
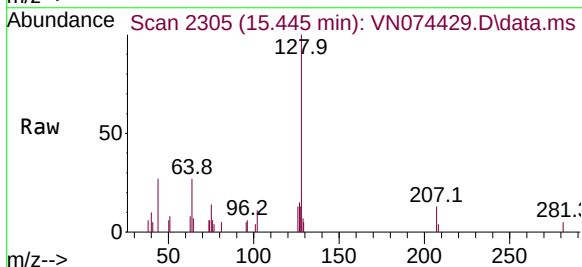
Tgt Ion:128 Resp: 9392

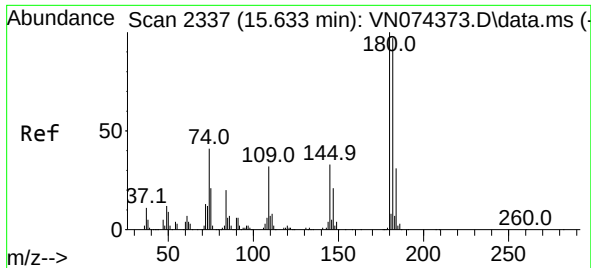
Ion Ratio Lower Upper

128 100

127 21.4 10.6 16.0#

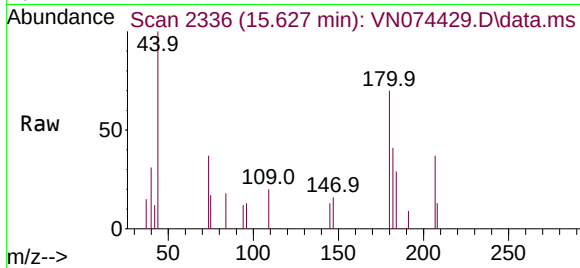
129 11.9 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.436 ug/l
 RT: 15.627 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN074429.D
 Acq: 13 Sep 2022 00:35

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW5-GW-238-240



Tgt Ion	Ratio	Lower	Upper
180	100		
182	45.2	47.6	142.8#
145	0.0	17.3	52.0#

