

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093022\
 Data File : VN074665.D
 Acq On : 30 Sep 2022 14:28
 Operator : JC\MD
 Sample : N4863-06DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 03 02:05:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092922W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 30 07:44:59 2022
 Response via : Initial Calibration

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

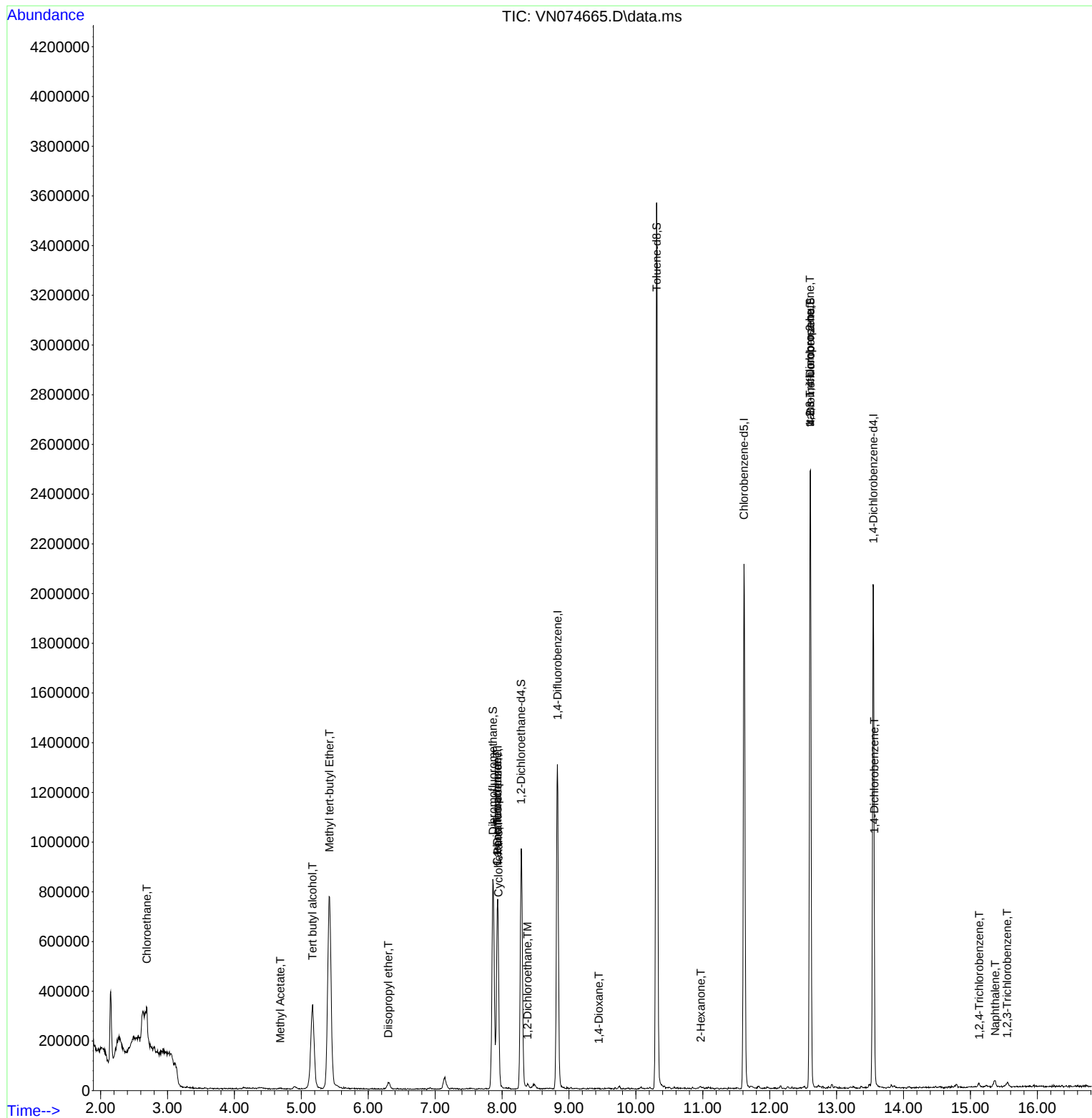
Internal Standards						
1) Pentafluorobenzene	7.934	168	553507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.828	114	1084339	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.616	117	1103723	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.551	152	490168	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.286	65	717372	51.713	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.420%			
35) Dibromofluoromethane	7.863	113	604035	52.629	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.260%			
50) Toluene-d8	10.310	98	2324989	48.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.320%			
62) 4-Bromofluorobenzene	12.610	95	760952	49.710	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.420%			
Target Compounds						Qvalue
6) Chloroethane	2.693	64	29228	1.545	ug/l #	53
8) Diethyl Ether	3.699	74	92	Below Cal	#	1
11) Tert butyl alcohol	5.169	59	666181	179.819	ug/l	99
13) Acrolein	3.875	56	405	Below Cal	#	16
16) Acetone	4.151	43	6491	Below Cal		93
18) Methyl Acetate	4.687	43	7397	0.289	ug/l #	67
19) Methyl tert-butyl Ether	5.422	73	1342806	34.034	ug/l	100
20) Methylene Chloride	4.910	84	6043	Below Cal	#	80
22) Diisopropyl ether	6.298	45	34434	0.758	ug/l #	81
31) Cyclohexane	7.945	56	18246	0.810	ug/l #	84
36) 1,1-Dichloropropene	7.928	75	53599	2.916	ug/l #	49
38) Carbon Tetrachloride	7.928	117	60910	3.617	ug/l #	14
42) 1,2-Dichloroethane	8.381	62	4220	0.222	ug/l	83
49) 1,4-Dioxane	9.445	88	452	1.322	ug/l #	23
59) 2-Hexanone	10.969	43	7372	0.354	ug/l	83
74) N-amyl acetate	12.274	43	4226	Below Cal		94
75) 1,1,2,2-Tetrachloroethane	12.704	83	408	Below Cal	#	56
76) 1,2,3-Trichloropropane	12.604	75	447862	40.428	ug/l #	1
77) Bromobenzene	12.727	156	364	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.604	75	447862	76.354	ug/l #	10
88) 1,4-Dichlorobenzene	13.563	146	4709	0.258	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.133	180	4764	0.573	ug/l	80
94) Hexachlorobutadiene	15.233	225	343	Below Cal		99
95) Naphthalene	15.368	128	24458	0.751	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.551	180	5948	0.718	ug/l	83

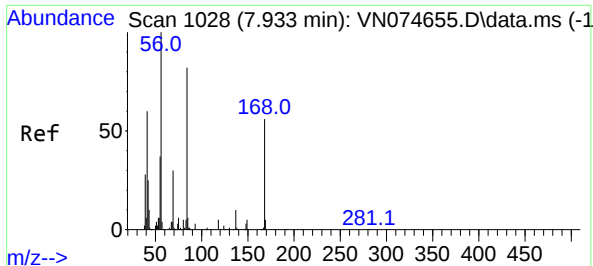
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092922W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 30 07:44:59 2022
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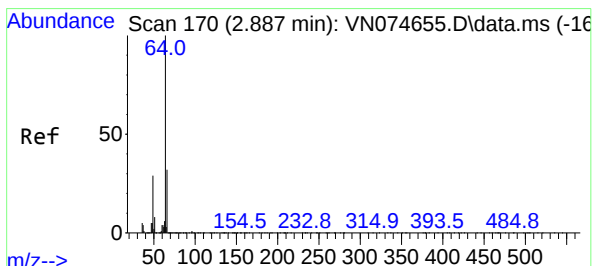
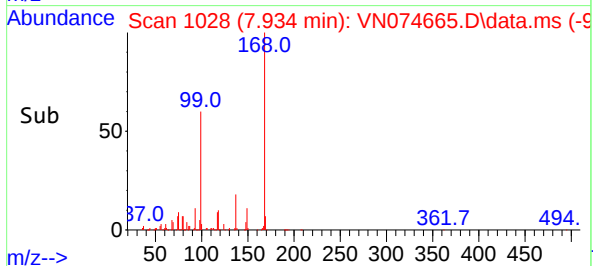
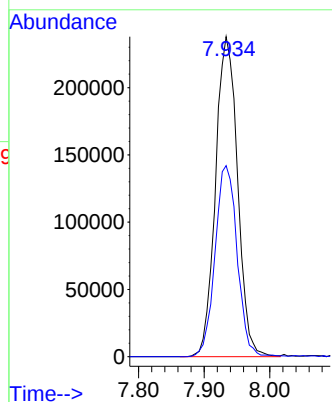
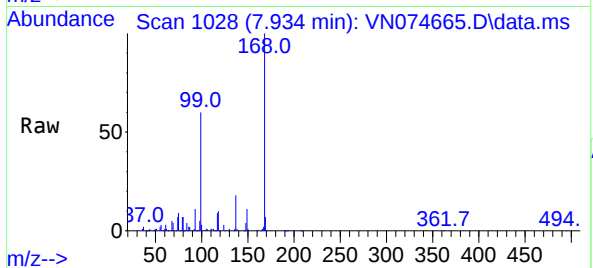




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.934 min Scan# 10
Delta R.T. 0.001 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

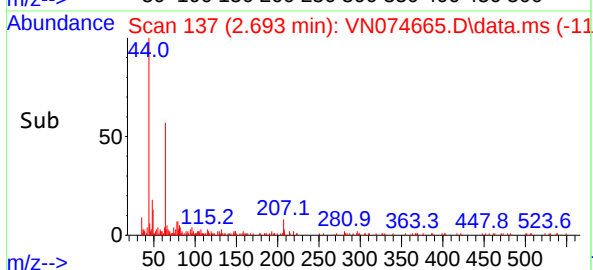
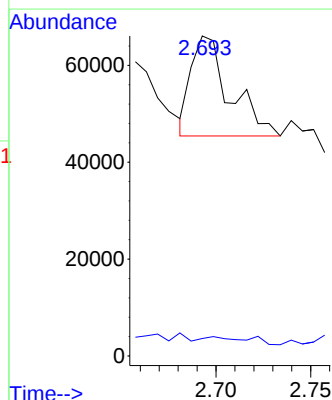
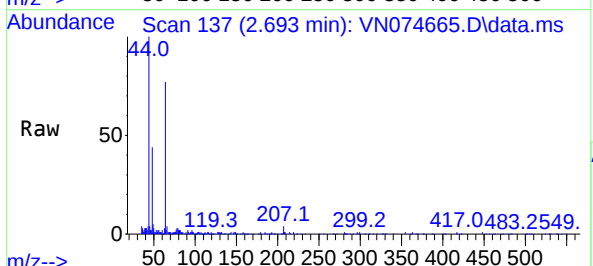
Instrument :
MSVOA_N
ClientSampleId :

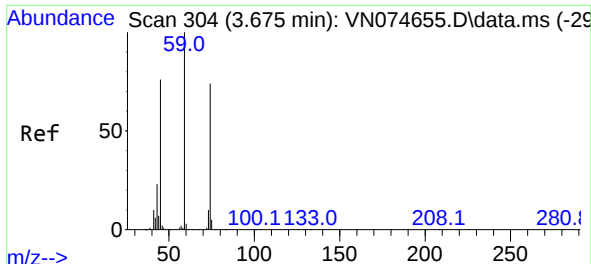
Tgt Ion:168 Resp: 553507
Ion Ratio Lower Upper
168 100
99 59.7 42.3 63.5



#6
Chloroethane
Concen: 1.545 ug/l
RT: 2.693 min Scan# 137
Delta R.T. -0.194 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 64 Resp: 29228
Ion Ratio Lower Upper
64 100
66 6.3 26.2 39.4#

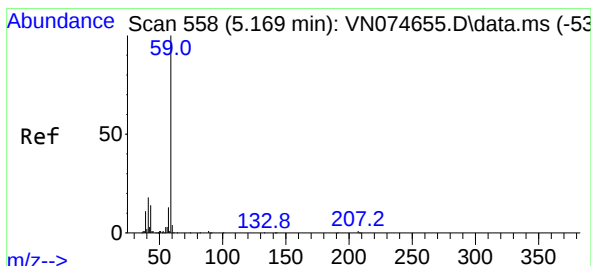
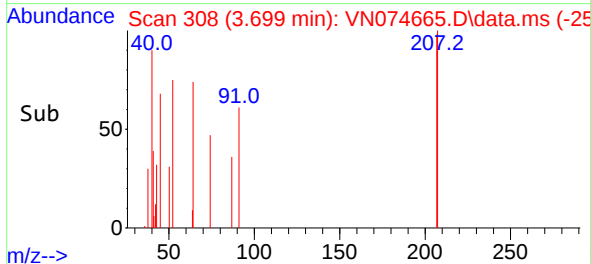
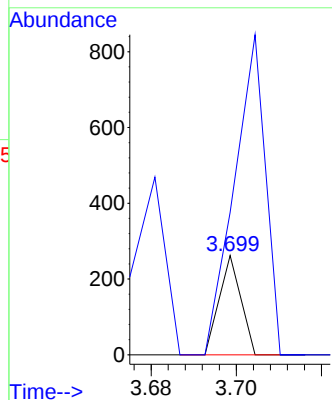
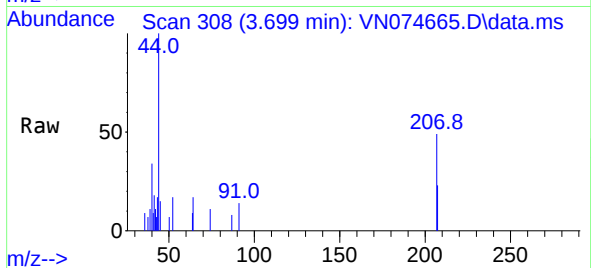




#8
Diethyl Ether
Concen: Below Cal
RT: 3.699 min Scan# 30
Delta R.T. 0.024 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

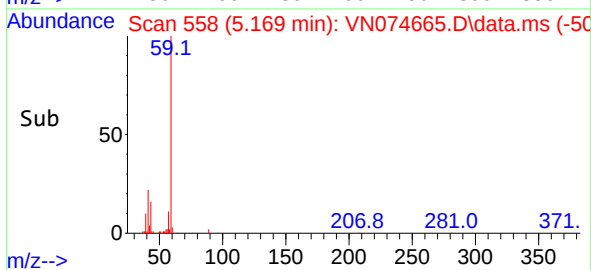
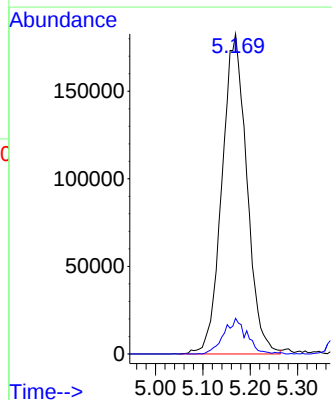
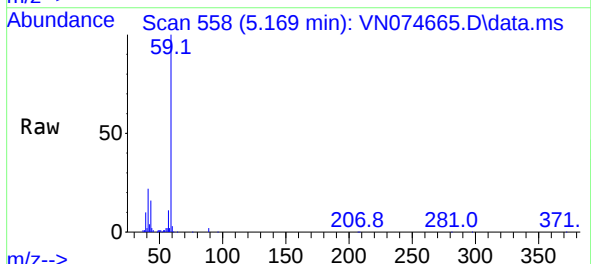
Instrument :
MSVOA_N
ClientSampleId :

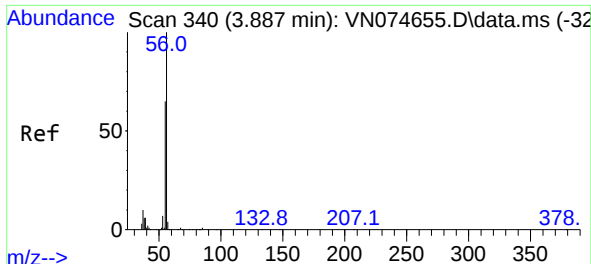
Tgt Ion: 74 Resp: 92
Ion Ratio Lower Upper
74 100
45 468.5 42.9 128.5#



#11
Tert butyl alcohol
Concen: 179.819 ug/l
RT: 5.169 min Scan# 558
Delta R.T. 0.000 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 59 Resp: 666181
Ion Ratio Lower Upper
59 100
57 10.2 8.3 12.5

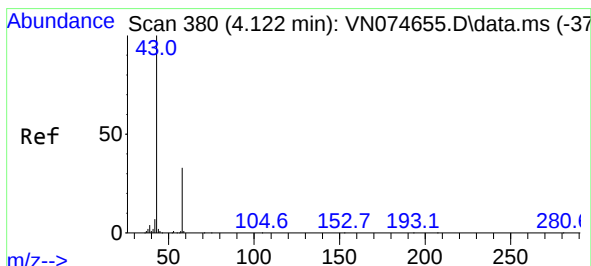
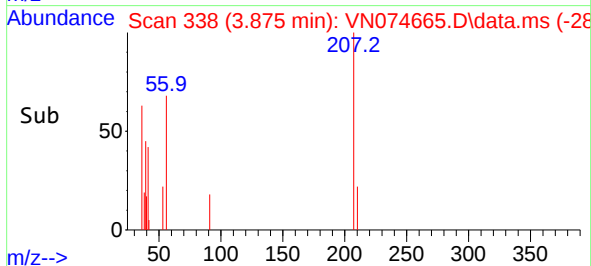
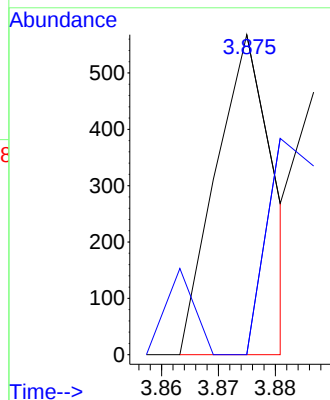
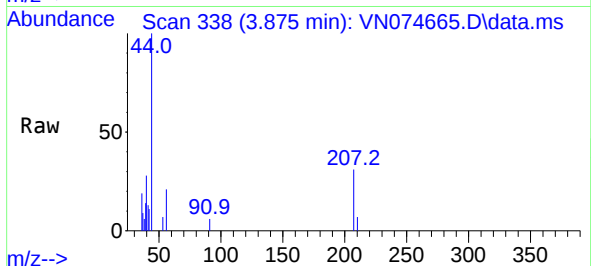




#13
Acrolein
Concen: Below Cal
RT: 3.875 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

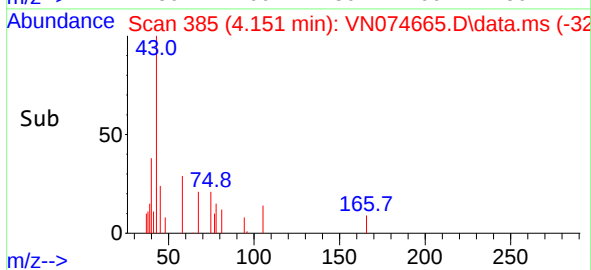
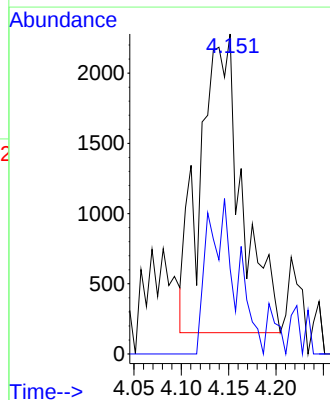
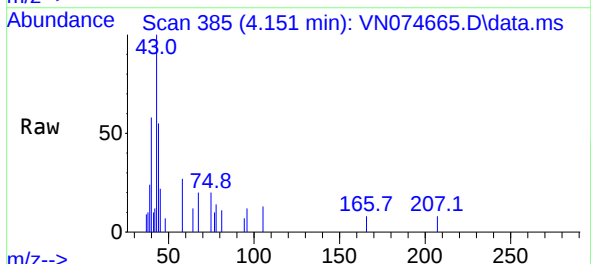
Instrument :
MSVOA_N
ClientSampleId :

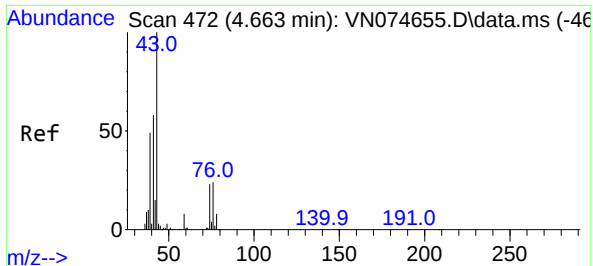
Tgt Ion: 56 Resp: 405
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#



#16
Acetone
Concen: Below Cal
RT: 4.151 min Scan# 385
Delta R.T. 0.029 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 43 Resp: 6491
Ion Ratio Lower Upper
43 100
58 28.6 26.0 39.0

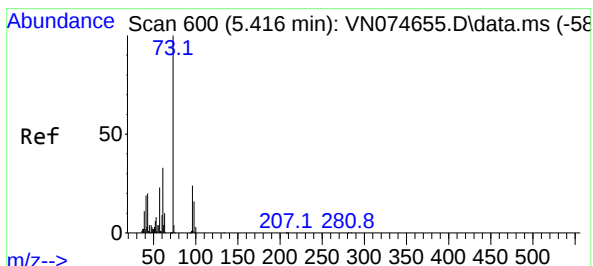
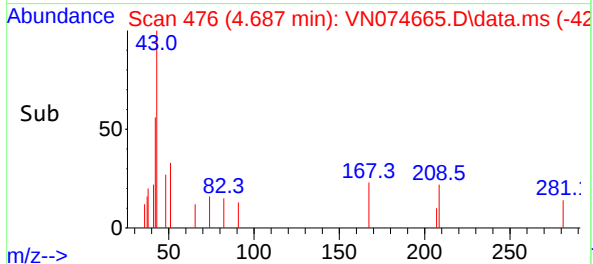
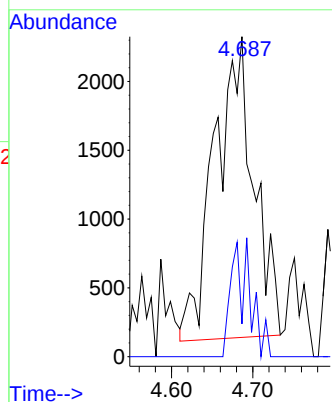
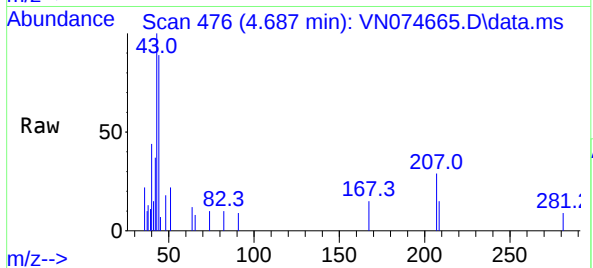




#18
Methyl Acetate
Concen: 0.289 ug/l
RT: 4.687 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

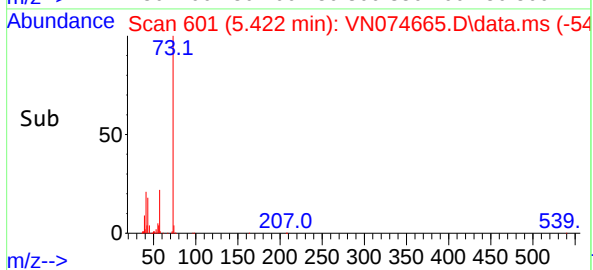
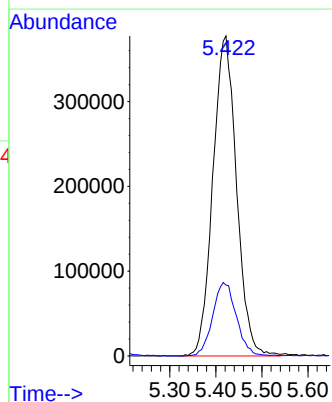
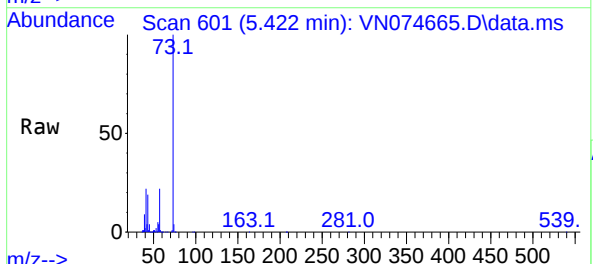
Instrument :
MSVOA_N
ClientSampleId :

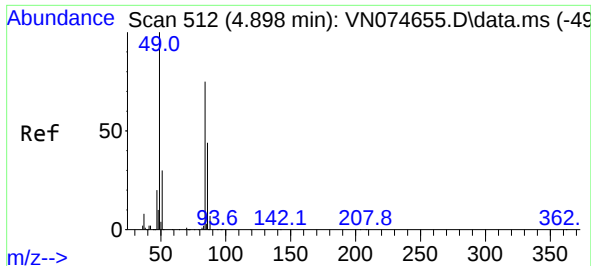
Tgt Ion: 43 Resp: 7397
Ion Ratio Lower Upper
43 100
74 9.9 21.6 32.4#



#19
Methyl tert-butyl Ether
Concen: 34.034 ug/l
RT: 5.422 min Scan# 601
Delta R.T. 0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

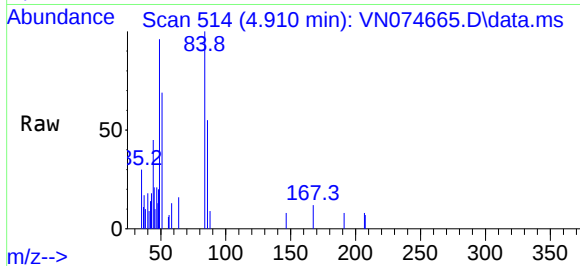
Tgt Ion: 73 Resp: 1342806
Ion Ratio Lower Upper
73 100
57 22.1 17.6 26.4



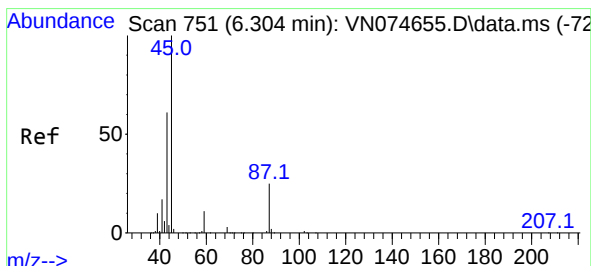
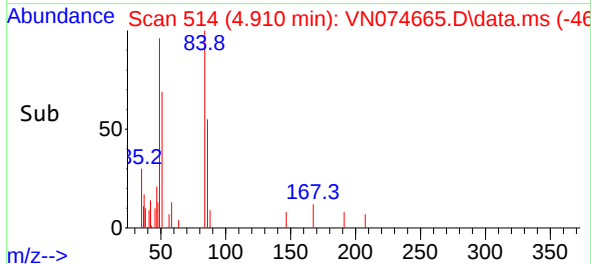
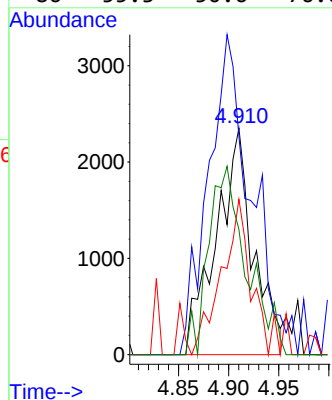


#20
Methylene Chloride
Concen: Below Cal
RT: 4.910 min Scan# 512
Delta R.T. 0.012 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Instrument :
MSVOA_N
ClientSampleId :

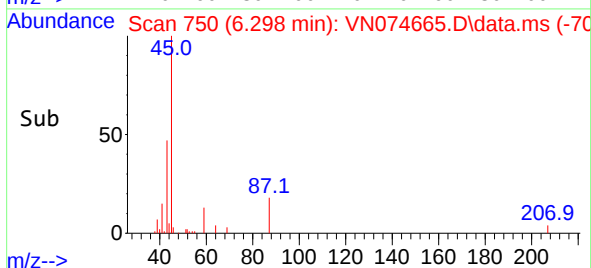
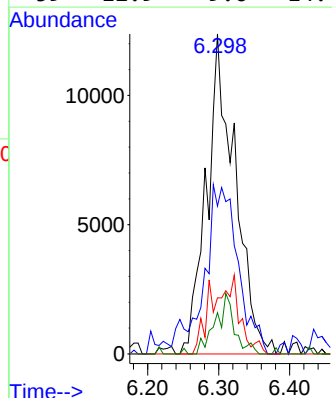
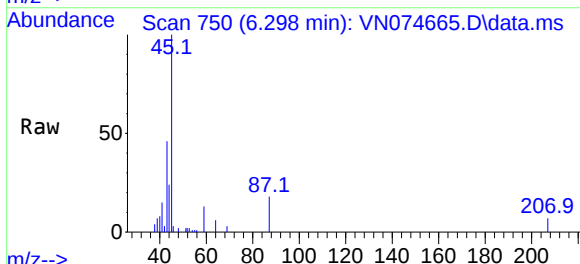


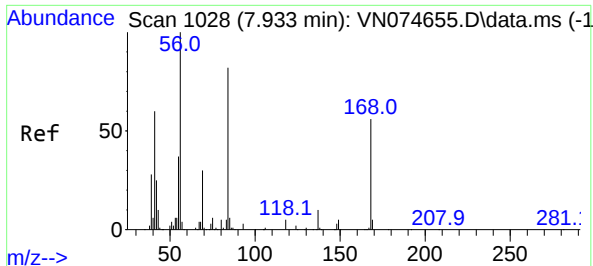
Tgt Ion: 84 Resp: 6043
Ion Ratio Lower Upper
84 100
49 96.3 88.3 132.5
51 68.6 28.2 42.2#
86 55.3 50.6 76.0



#22
Diisopropyl ether
Concen: 0.758 ug/l
RT: 6.298 min Scan# 750
Delta R.T. -0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 45 Resp: 34434
Ion Ratio Lower Upper
45 100
43 43.3 46.6 70.0#
87 17.5 24.3 36.5#
59 12.9 9.6 14.4





#31

Cyclohexane

Concen: 0.810 ug/l

RT: 7.945 min Scan# 1030

Delta R.T. 0.012 min

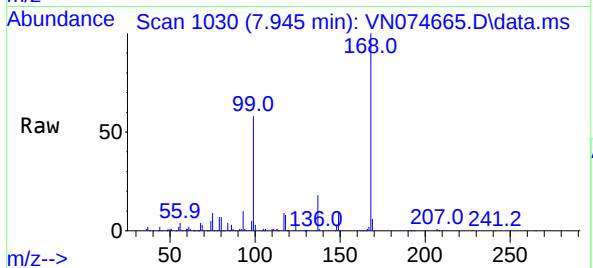
Lab File: VN074665.D

Acq: 30 Sep 2022 14:28

Instrument :

MSVOA_N

ClientSampleId :



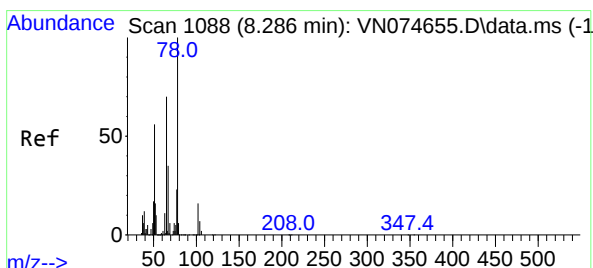
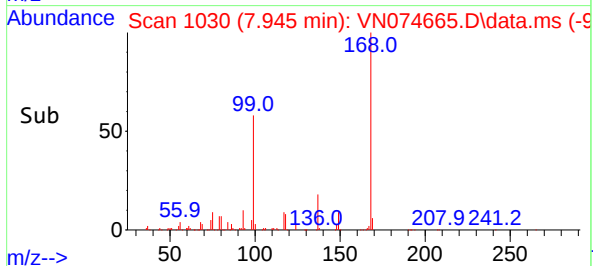
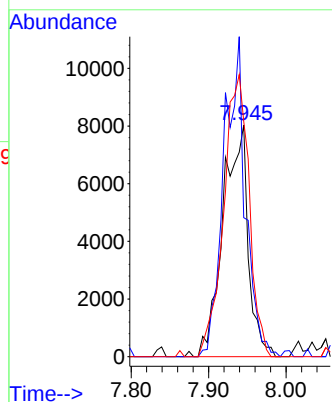
Tgt Ion: 56 Resp: 18246

Ion Ratio Lower Upper

56 100

69 60.0 27.8 41.8#

84 101.6 76.9 115.3



#33

1,2-Dichloroethane-d4

Concen: 51.713 ug/l

RT: 8.286 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VN074665.D

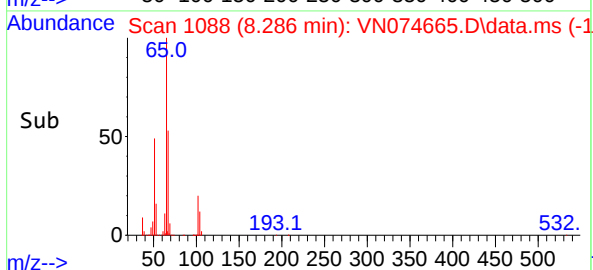
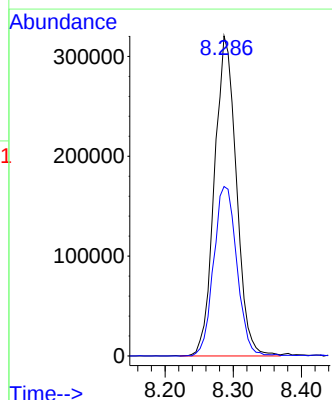
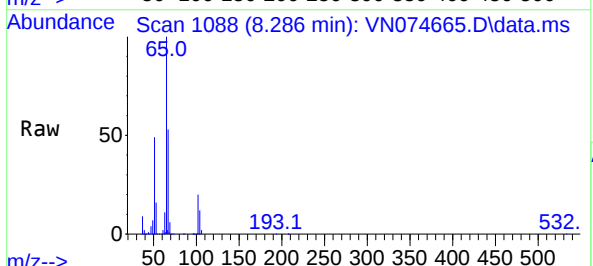
Acq: 30 Sep 2022 14:28

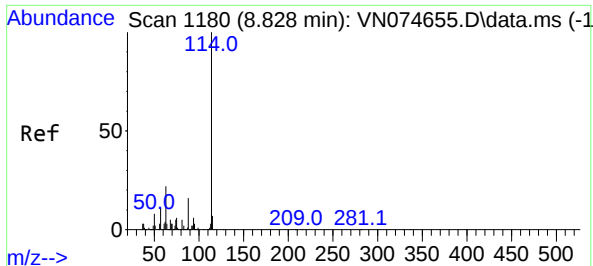
Tgt Ion: 65 Resp: 717372

Ion Ratio Lower Upper

65 100

67 56.3 0.0 104.8

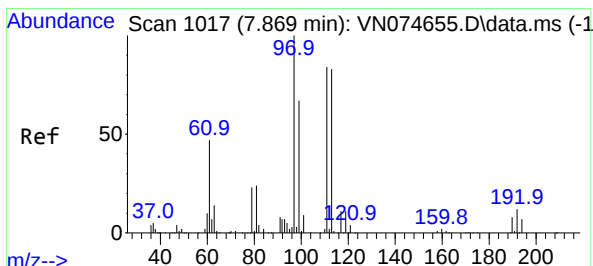
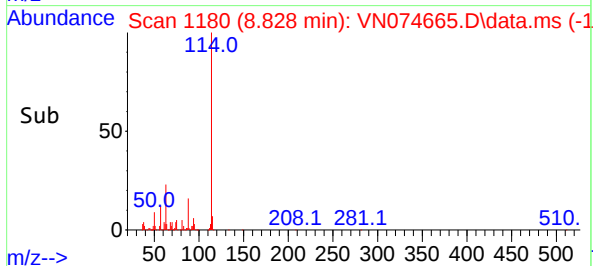
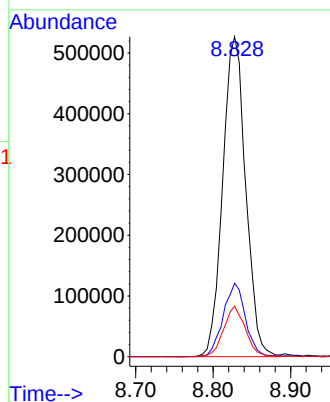
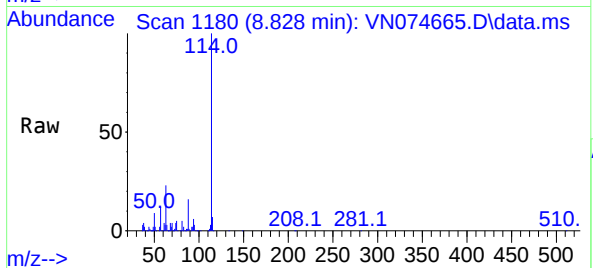




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.828 min Scan# 1180
Delta R.T. -0.000 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

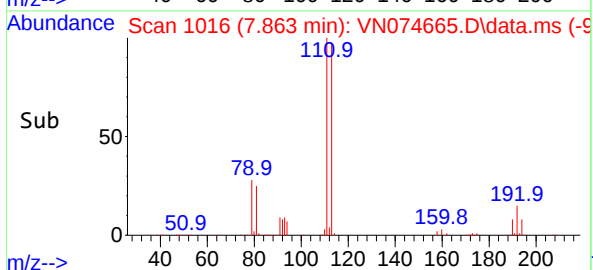
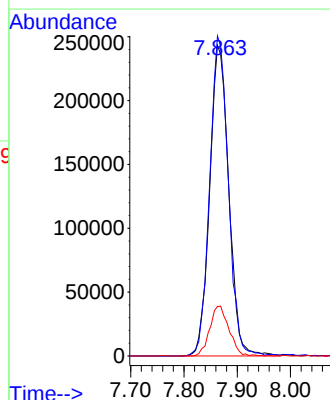
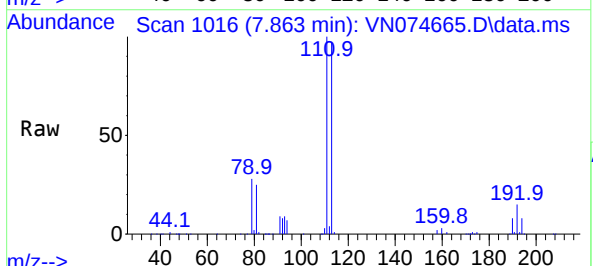
Instrument :
MSVOA_N
ClientSampleId :

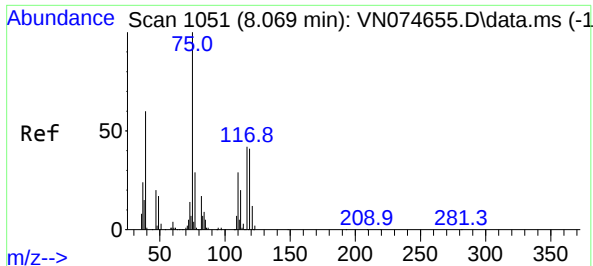
Tgt Ion:114 Resp: 1084339
Ion Ratio Lower Upper
114 100
63 23.0 0.0 40.0
88 15.8 0.0 32.6



#35
Dibromofluoromethane
Concen: 52.629 ug/l
RT: 7.863 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion:113 Resp: 604035
Ion Ratio Lower Upper
113 100
111 100.5 81.4 122.0
192 16.2 17.0 25.6#





#36

1,1-Dichloropropene

Concen: 2.916 ug/l

RT: 7.928 min Scan# 1027

Delta R.T. -0.141 min

Lab File: VN074665.D

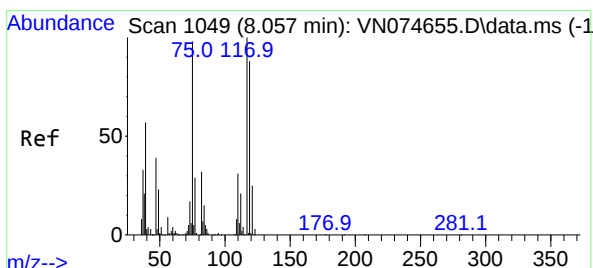
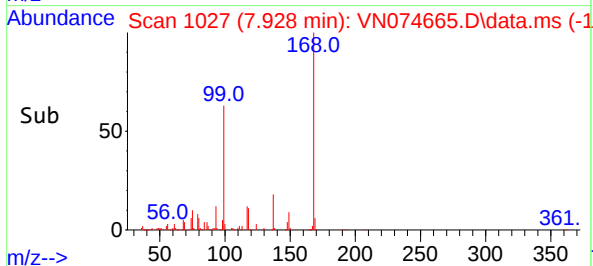
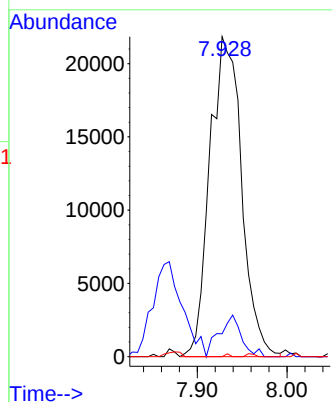
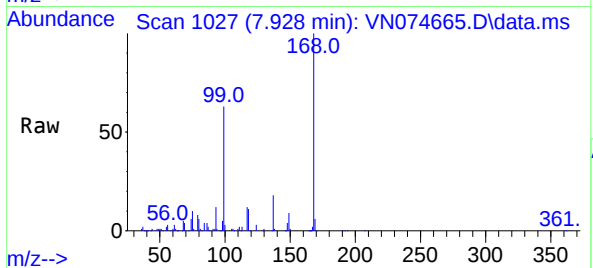
Acq: 30 Sep 2022 14:28

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 75	Resp: 53599
Ion Ratio	Lower Upper
75 100	
110 9.1	18.3 54.8#
77 0.1	25.1 37.7#



#38

Carbon Tetrachloride

Concen: 3.617 ug/l

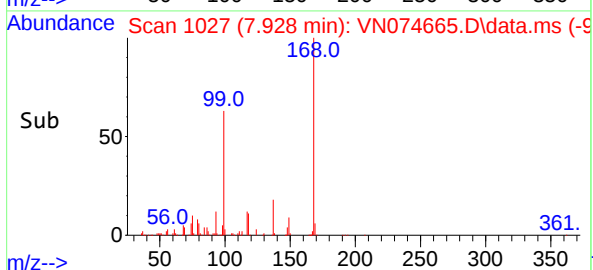
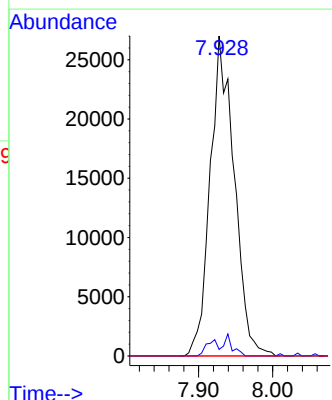
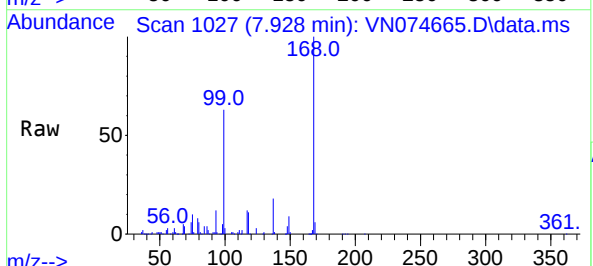
RT: 7.928 min Scan# 1027

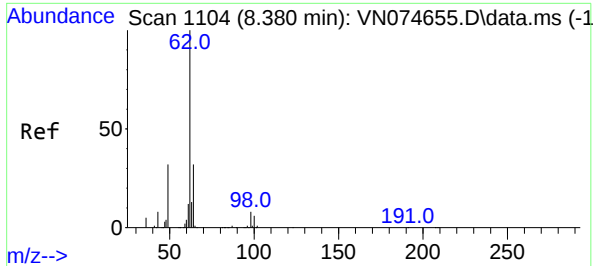
Delta R.T. -0.129 min

Lab File: VN074665.D

Acq: 30 Sep 2022 14:28

Tgt Ion: 117	Resp: 60910
Ion Ratio	Lower Upper
117 100	
119 2.0	75.8 113.8#
121 0.0	24.6 37.0#

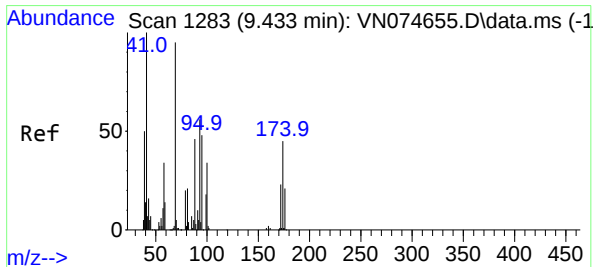
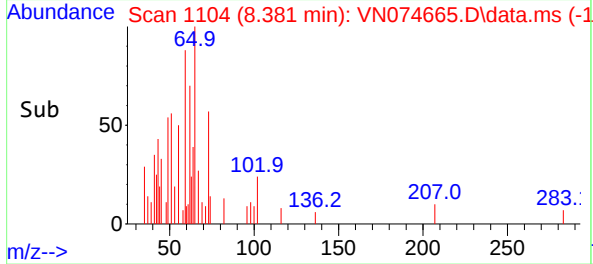
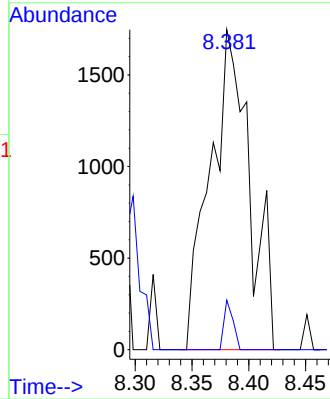
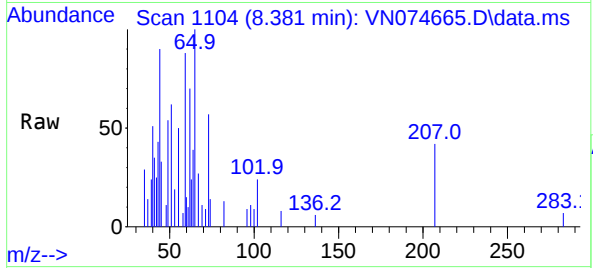




#42
 1,2-Dichloroethane
 Concen: 0.222 ug/l
 RT: 8.381 min Scan# 1104
 Delta R.T. 0.001 min
 Lab File: VN074665.D
 Acq: 30 Sep 2022 14:28

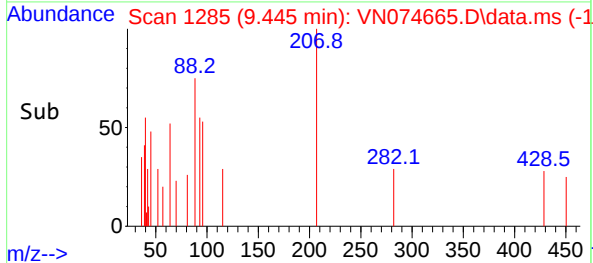
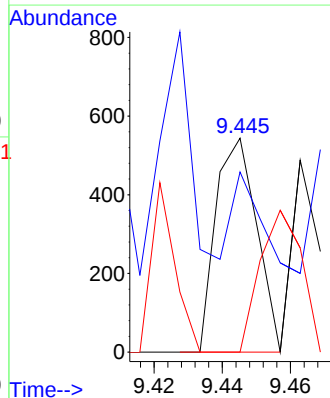
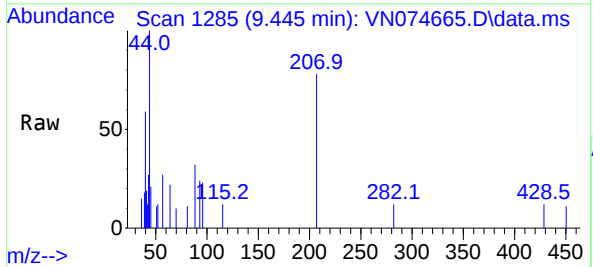
Instrument :
 MSVOA_N
 ClientSampleId :

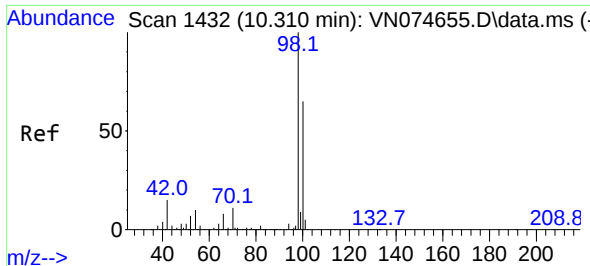
Tgt Ion:	62	Resp:	4220
Ion Ratio	Lower	Upper	
62	100		
98	3.6	0.0	19.4



#49
 1,4-Dioxane
 Concen: 1.322 ug/l
 RT: 9.445 min Scan# 1285
 Delta R.T. 0.012 min
 Lab File: VN074665.D
 Acq: 30 Sep 2022 14:28

Tgt Ion:	88	Resp:	452
Ion Ratio	Lower	Upper	
88	100		
43	53.8	20.2	30.4#
58	0.0	54.2	81.4#

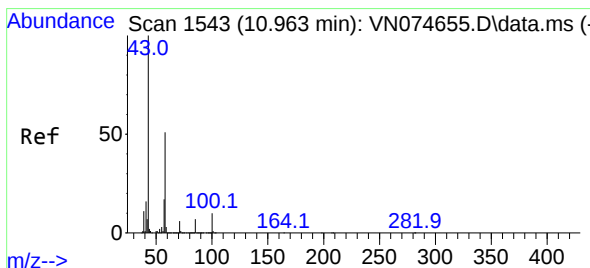
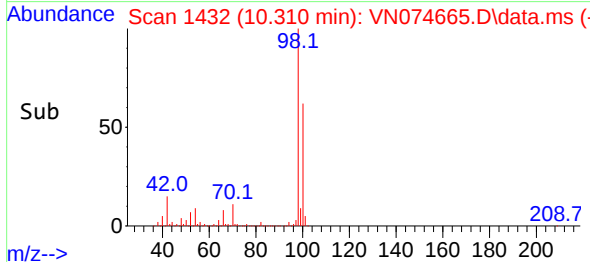
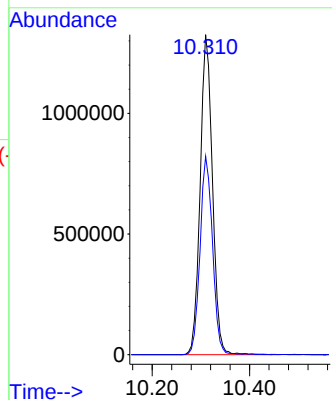
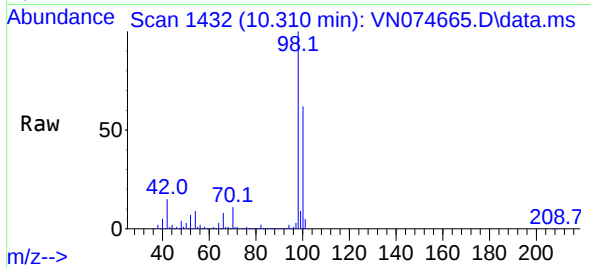




#50
Toluene-d8
Concen: 48.160 ug/l
RT: 10.310 min Scan# 1432
Delta R.T. -0.000 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

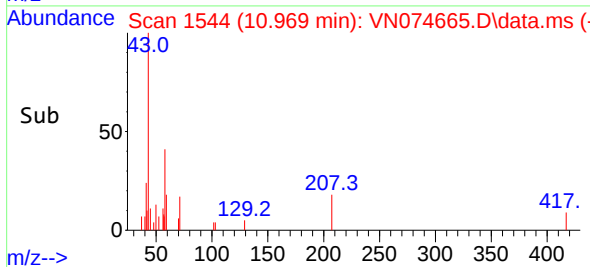
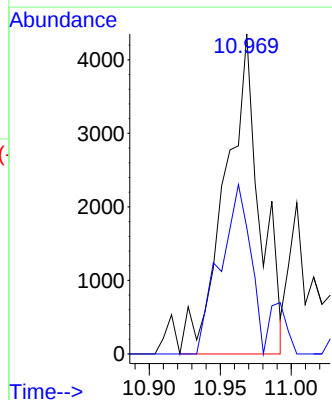
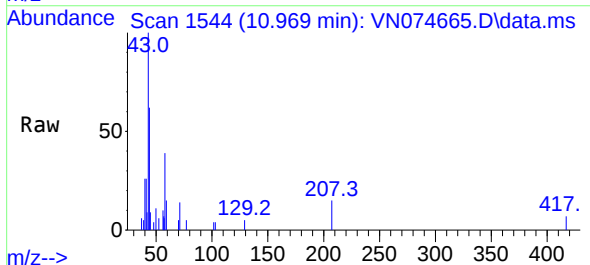
Instrument :
MSVOA_N
ClientSampleId :

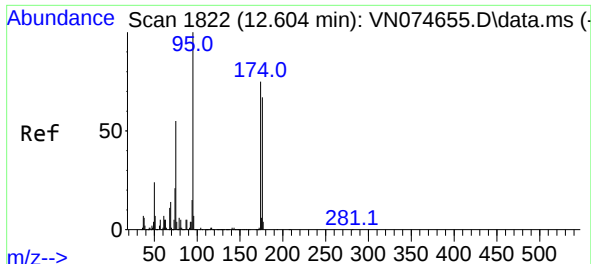
Tgt Ion: 98 Resp: 2324989
Ion Ratio Lower Upper
98 100
100 63.0 52.6 78.8



#59
2-Hexanone
Concen: 0.354 ug/l
RT: 10.969 min Scan# 1544
Delta R.T. 0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 43 Resp: 7372
Ion Ratio Lower Upper
43 100
58 46.4 29.7 89.1

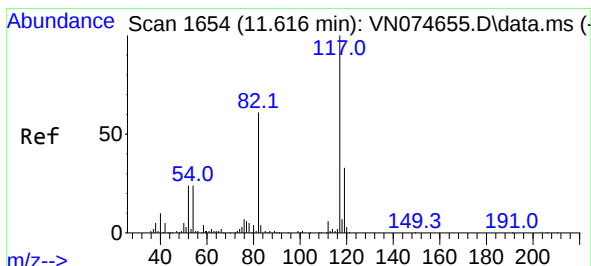
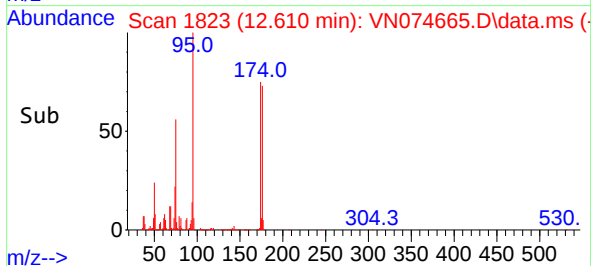
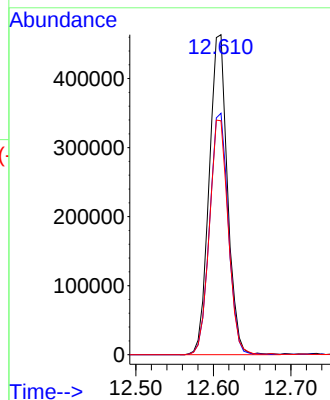
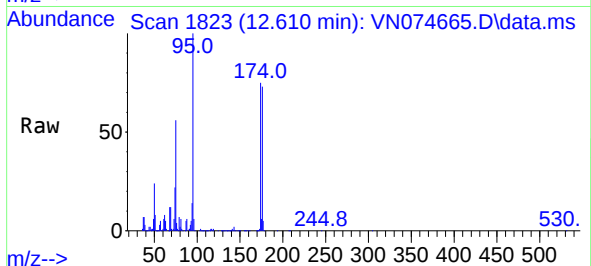




#62
4-Bromofluorobenzene
Concen: 49.710 ug/l
RT: 12.610 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

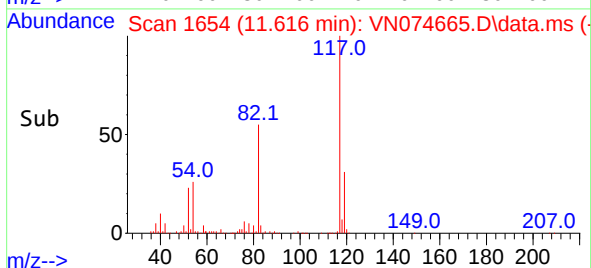
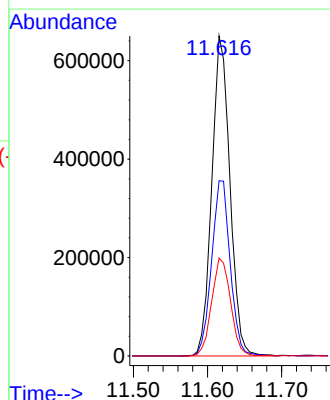
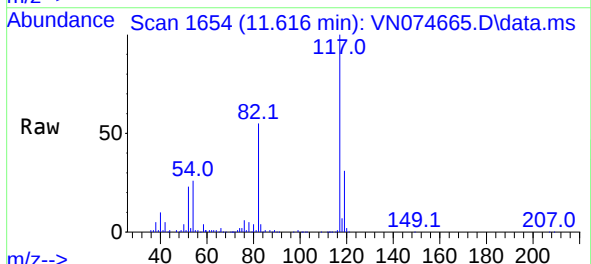
Instrument :
MSVOA_N
ClientSampleId :

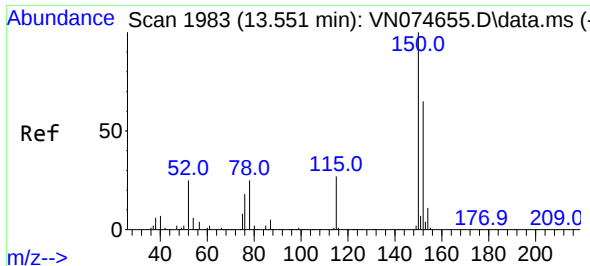
Tgt Ion: 95 Resp: 760952
Ion Ratio Lower Upper
95 100
174 76.5 0.0 167.6
176 74.9 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.616 min Scan# 1654
Delta R.T. -0.000 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 117 Resp: 1103723
Ion Ratio Lower Upper
117 100
82 54.7 44.2 66.2
119 30.6 25.4 38.0

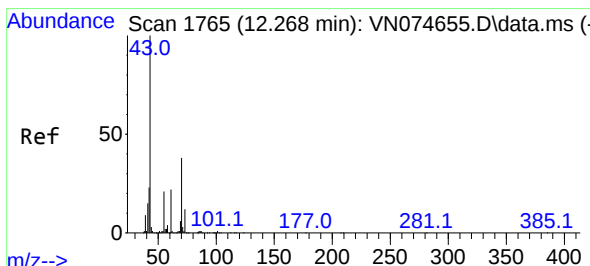
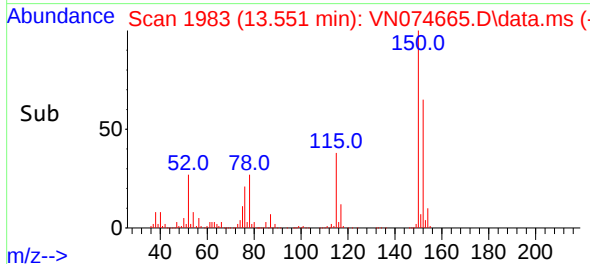
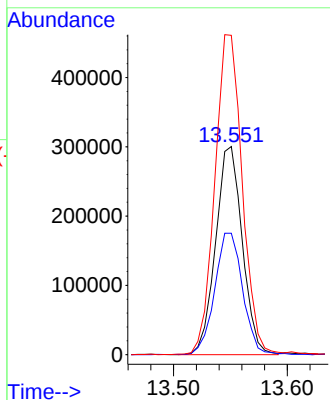
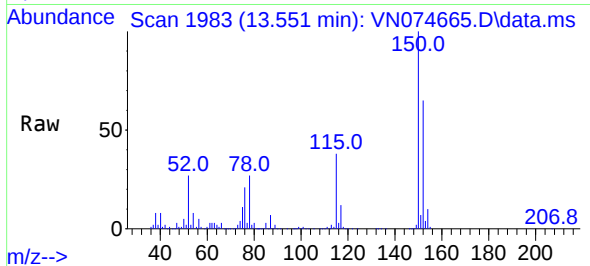




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.551 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

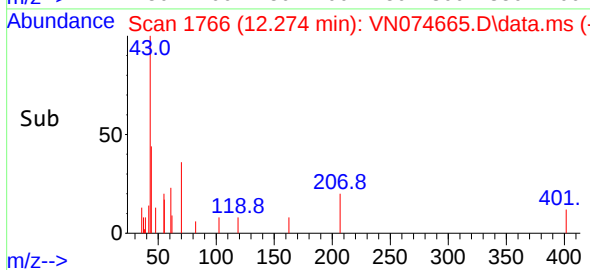
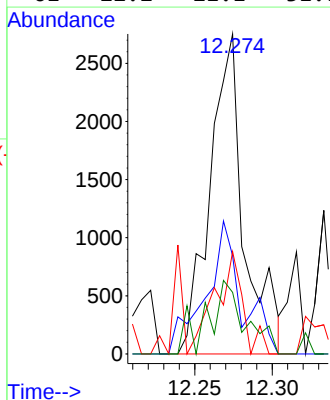
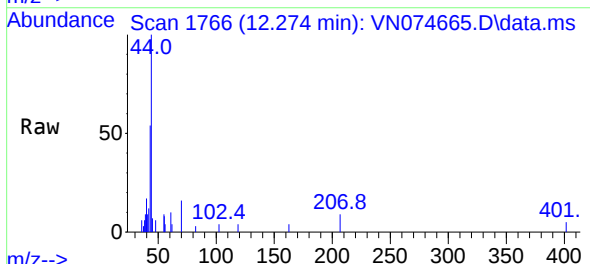
Instrument :
MSVOA_N
ClientSampleId :

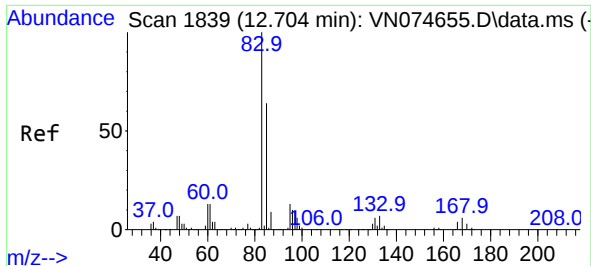
Tgt Ion:152 Resp: 490168
Ion Ratio Lower Upper
152 100
115 61.3 28.9 86.7
150 158.4 0.0 356.2



#74
N-ethyl acetate
Concen: Below Cal
RT: 12.274 min Scan# 1766
Delta R.T. 0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 43 Resp: 4226
Ion Ratio Lower Upper
43 100
70 43.6 39.0 58.4
55 24.9 21.1 31.7
61 22.2 21.1 31.7

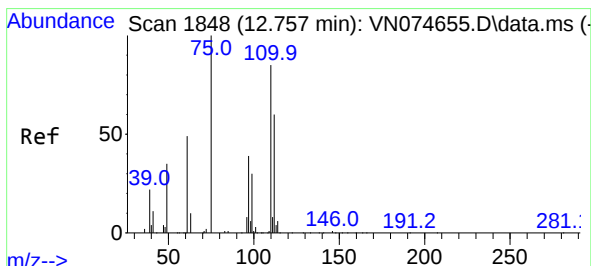
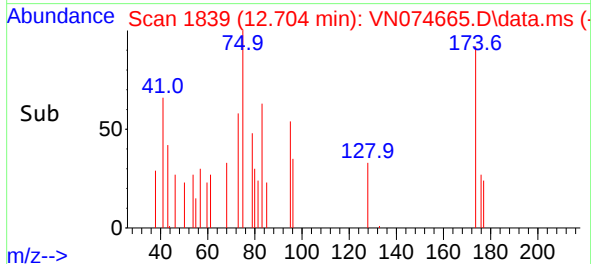
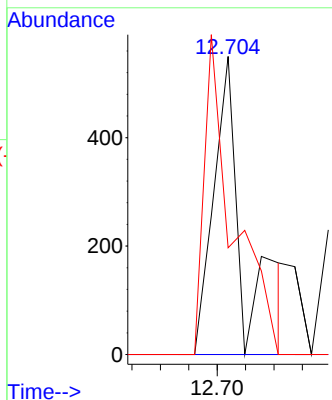
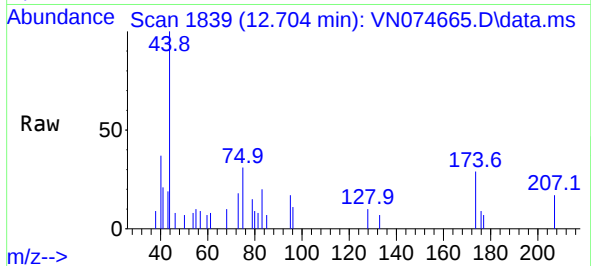




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.704 min Scan# 1839
Delta R.T. -0.000 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

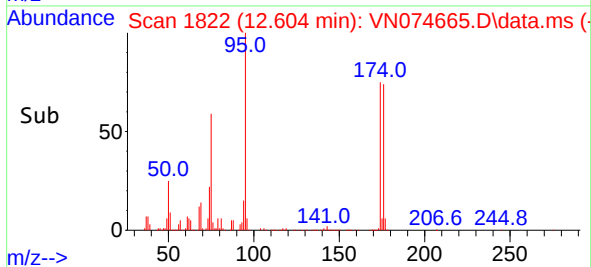
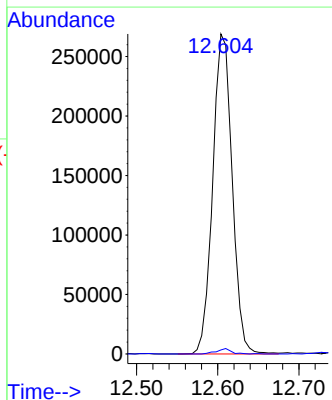
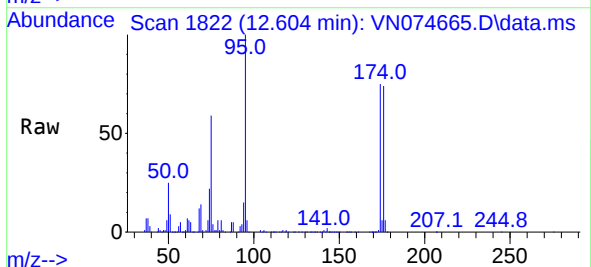
Instrument :
MSVOA_N
ClientSampleId :

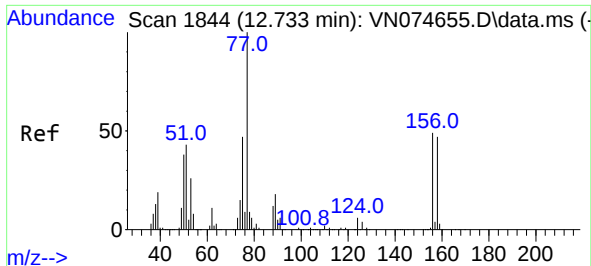
Tgt Ion: 83 Resp: 408
Ion Ratio Lower Upper
83 100
131 0.0 5.3 15.9#
85 101.2 32.3 96.9#



#76
1,2,3-Trichloropropane
Concen: 40.428 ug/l
RT: 12.604 min Scan# 1822
Delta R.T. -0.153 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 75 Resp: 447862
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#

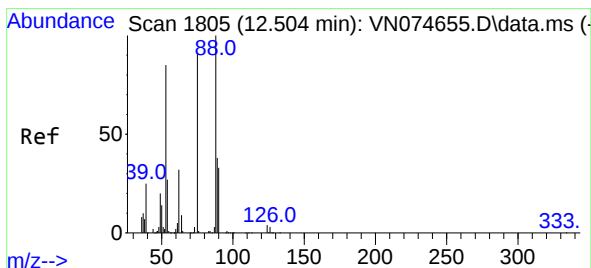
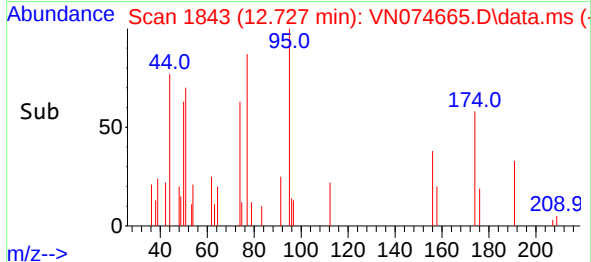
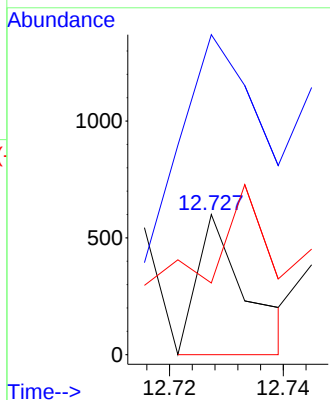
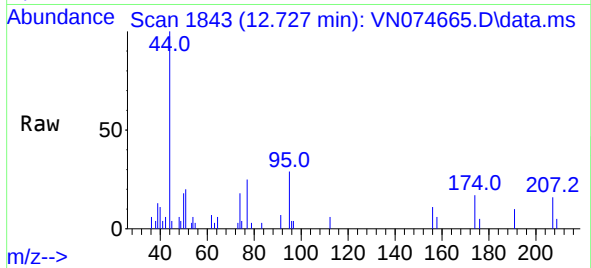




#77
Bromobenzene
Concen: Below Cal
RT: 12.727 min Scan# 1843
Delta R.T. -0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

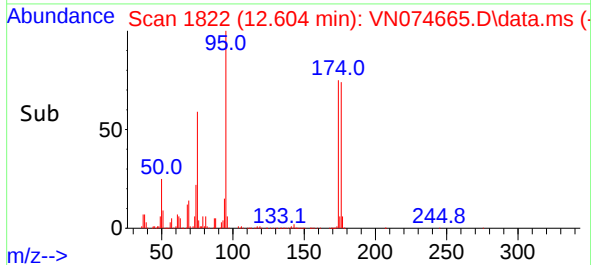
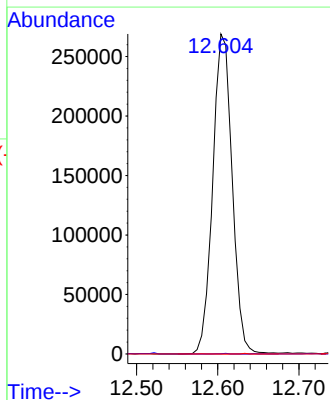
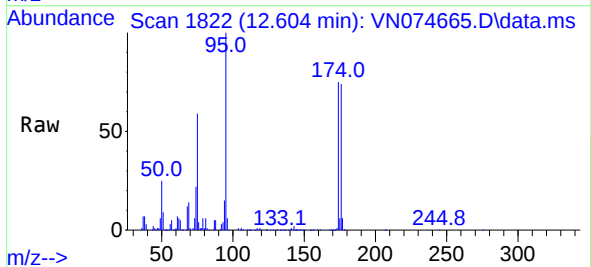
Instrument :
MSVOA_N
ClientSampleId :

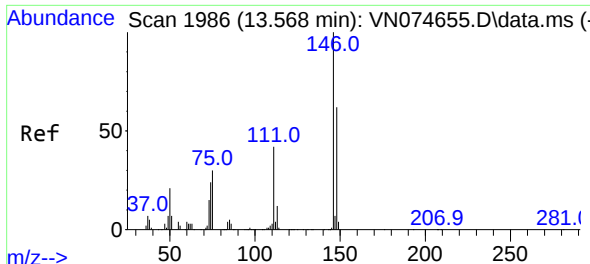
Tgt Ion:156 Resp: 364
Ion Ratio Lower Upper
156 100
77 733.0 100.5 301.5#
158 305.5 48.9 146.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.354 ug/l
RT: 12.604 min Scan# 1822
Delta R.T. 0.100 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

Tgt Ion: 75 Resp: 447862
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#

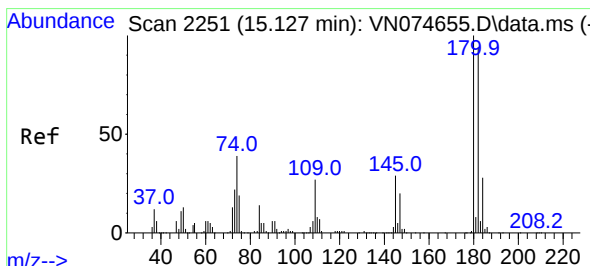
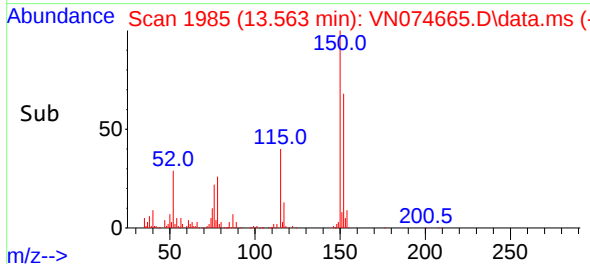
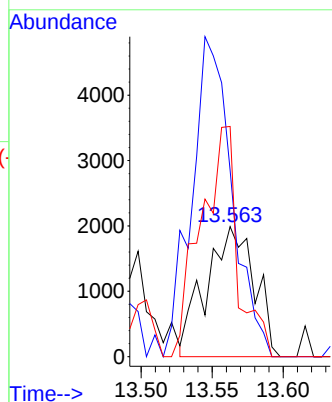
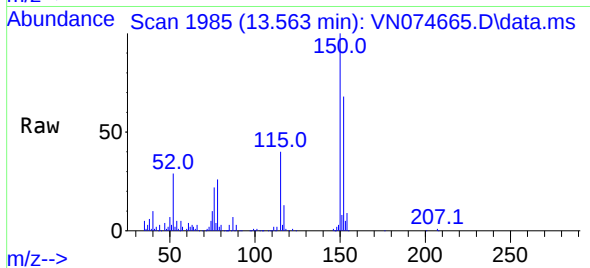




#88
 1,4-Dichlorobenzene
 Concen: 0.258 ug/l
 RT: 13.563 min Scan# 1985
 Delta R.T. -0.005 min
 Lab File: VN074665.D
 Acq: 30 Sep 2022 14:28

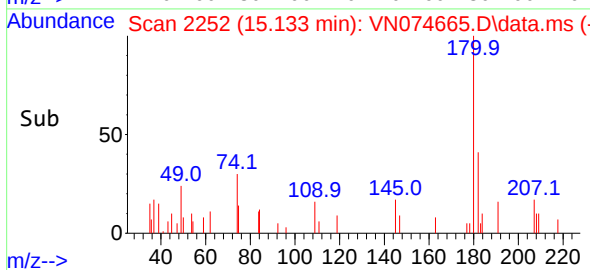
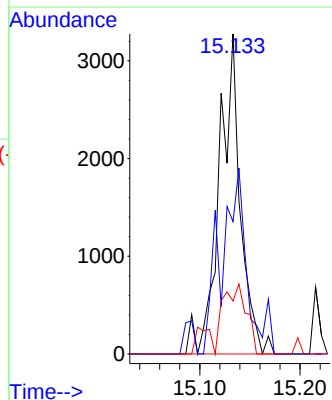
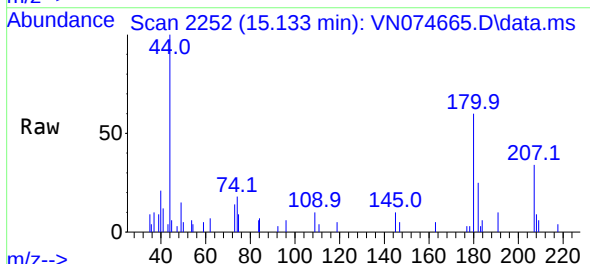
Instrument :
 MSVOA_N
 ClientSampleId :

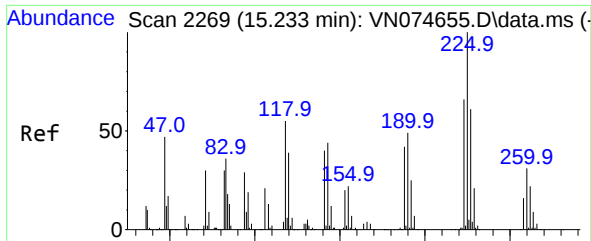
Tgt Ion:146 Resp: 4709
 Ion Ratio Lower Upper
 146 100
 111 205.4 19.1 57.1#
 148 135.5 31.4 94.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.573 ug/l
 RT: 15.133 min Scan# 2252
 Delta R.T. 0.006 min
 Lab File: VN074665.D
 Acq: 30 Sep 2022 14:28

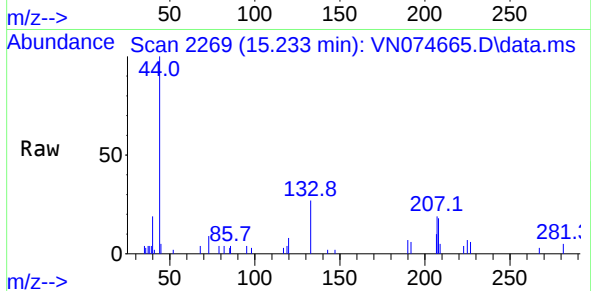
Tgt Ion:180 Resp: 4764
 Ion Ratio Lower Upper
 180 100
 182 71.8 47.5 142.5
 145 24.2 14.5 43.5



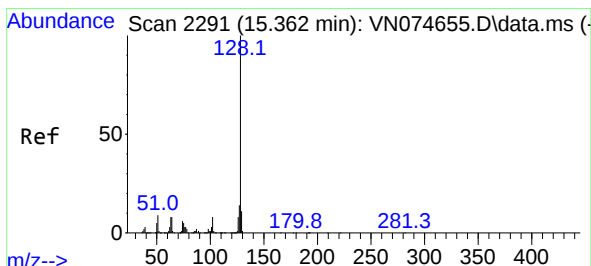
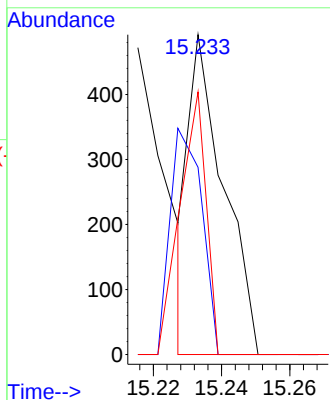
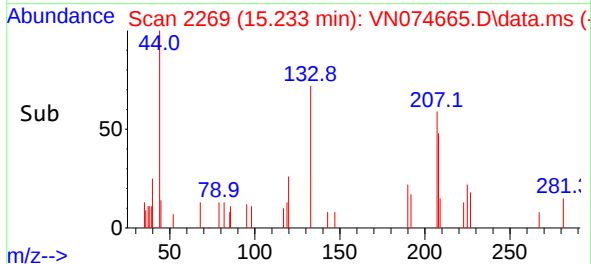


#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.233 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28

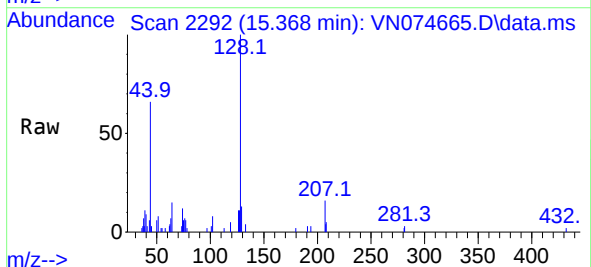
Instrument :
MSVOA_N
ClientSampleId :



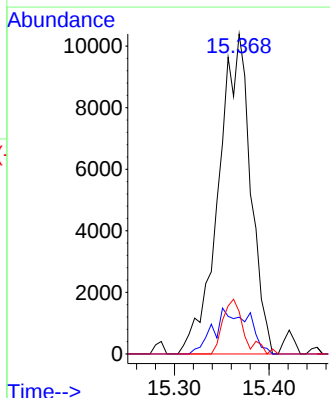
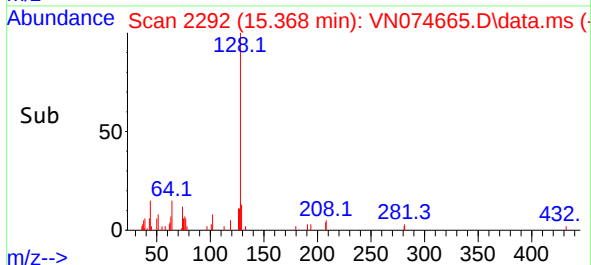
Tgt Ion:	225	Resp:	343
Ion	Ratio	Lower	Upper
225	100		
223	65.6	32.4	97.2
227	63.3	31.8	95.4

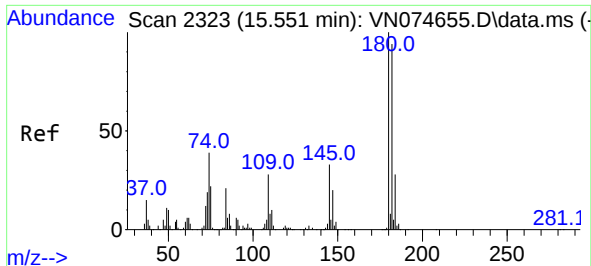


#95
Naphthalene
Concen: 0.751 ug/l
RT: 15.368 min Scan# 2292
Delta R.T. 0.006 min
Lab File: VN074665.D
Acq: 30 Sep 2022 14:28



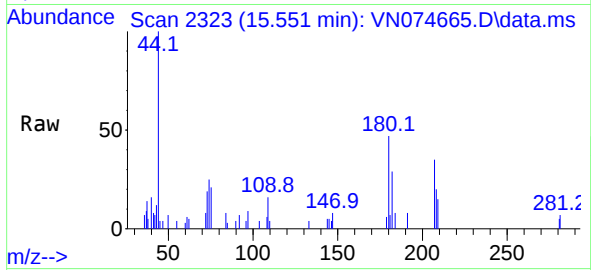
Tgt Ion:	128	Resp:	24458
Ion	Ratio	Lower	Upper
128	100		
127	15.7	10.3	15.5#
129	11.2	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.718 ug/l
 RT: 15.551 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN074665.D
 Acq: 30 Sep 2022 14:28

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	5948
Ion	Ratio	Lower	Upper
180	100		
182	81.0	47.8	143.3
145	18.8	15.5	46.5

