

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091622\
 Data File : VN074543.D
 Acq On : 17 Sep 2022 05:21
 Operator : JC\MD
 Sample : N4549-15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-59

Quant Time: Sep 17 06:19:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091522W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 15 19:20:33 2022
 Response via : Initial Calibration

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

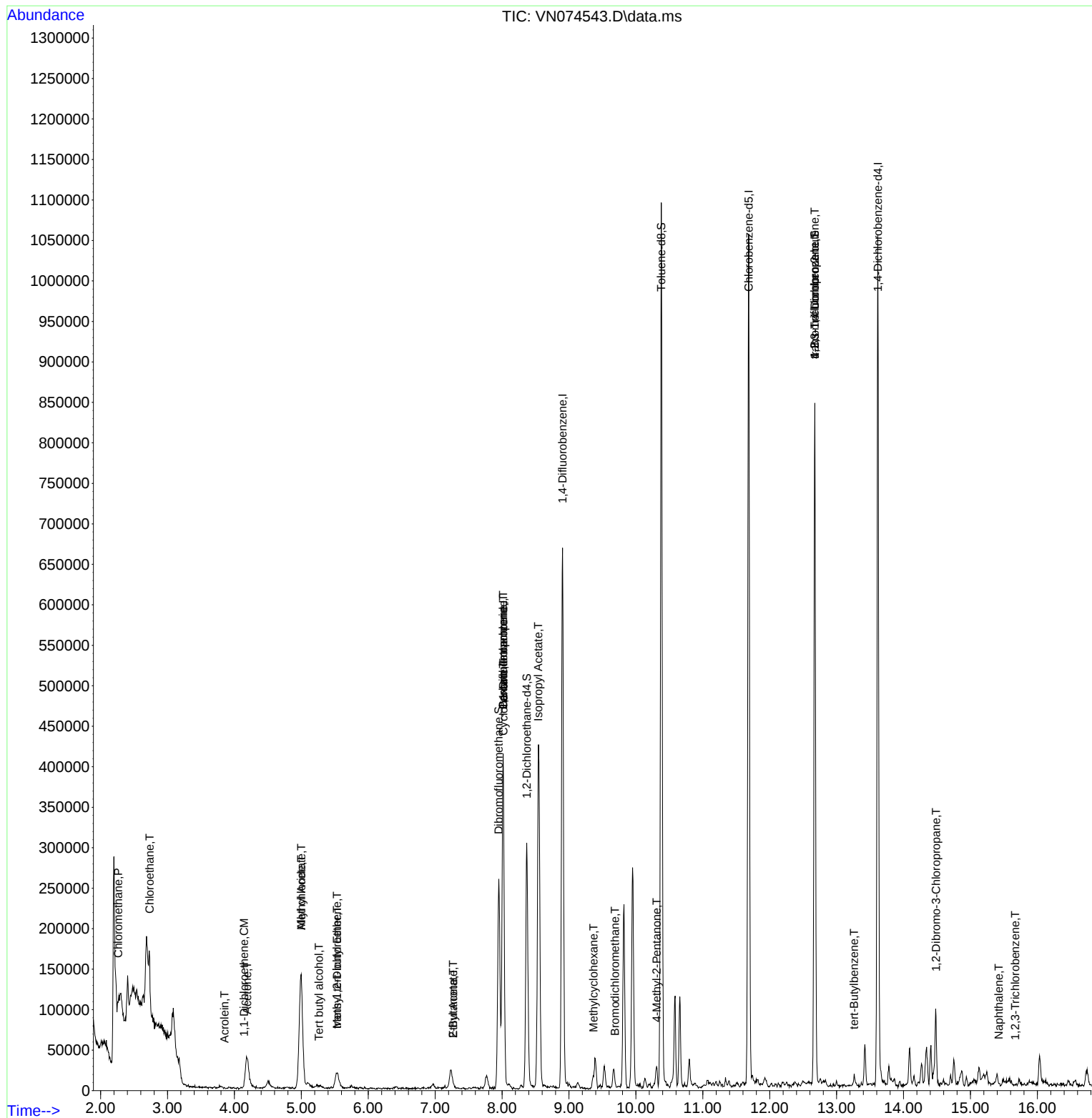
Internal Standards						
1) Pentafluorobenzene	8.016	168	278048	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.904	114	541365	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	534446	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	237972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	218540	46.323	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.640%		
35) Dibromofluoromethane	7.951	113	182568	50.767	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.540%		
50) Toluene-d8	10.380	98	681893	49.030	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.060%		
62) 4-Bromofluorobenzene	12.674	95	254592	53.448	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.900%		
Target Compounds					Qvalue	
3) Chloromethane	2.263	50	3600	0.962	ug/l	# 43
6) Chloroethane	2.734	64	38462	10.337	ug/l	# 46
11) Tert butyl alcohol	5.263	59	490	0.319	ug/l	# 72
12) 1,1-Dichloroethene	4.145	96	110	0.714	ug/l	# 1
13) Acrolein	3.851	56	316	0.563	ug/l	# 16
14) Allyl chloride	4.998	41	65866	7.533	ug/l	# 64
16) Acetone	4.192	43	34655	11.479	ug/l	# 56
18) Methyl Acetate	4.998	43	157594	16.807	ug/l	# 48
19) Methyl tert-butyl Ether	5.534	73	25335	1.642	ug/l	# 88
21) trans-1,2-Dichloroethene	5.534	96	65	0.445	ug/l	# 1
25) 2-Butanone	7.269	43	6416	1.280	ug/l	# 45
31) Cyclohexane	8.022	56	11772	1.406	ug/l	# 46
36) 1,1-Dichloropropene	8.016	75	29434	4.624	ug/l	# 47
37) Ethyl Acetate	7.269	43	6416	0.653	ug/l	# 69
38) Carbon Tetrachloride	8.016	117	29749	5.062	ug/l	# 16
39) Methylcyclohexane	9.369	83	2972	0.393	ug/l	# 52
43) Isopropyl Acetate	8.539	43	93863	6.096	ug/l	# 53
47) Bromodichloromethane	9.686	83	1837	0.277	ug/l	# 26
51) 4-Methyl-2-Pentanone	10.310	43	2874	0.286	ug/l	# 59
76) 1,2,3-Trichloropropane	12.674	75	156528	21.369	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.674	75	156528	46.121	ug/l	# 11
83) tert-Butylbenzene	13.262	119	5780	0.320	ug/l	# 89
92) 1,2-Dibromo-3-Chloropr...	14.486	75	580	0.269	ug/l	# 11
95) Naphthalene	15.421	128	626	1.619	ug/l	# 85
96) 1,2,3-Trichlorobenzene	15.668	180	55	1.348	ug/l	# 1

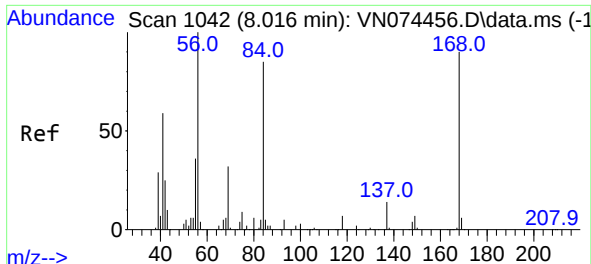
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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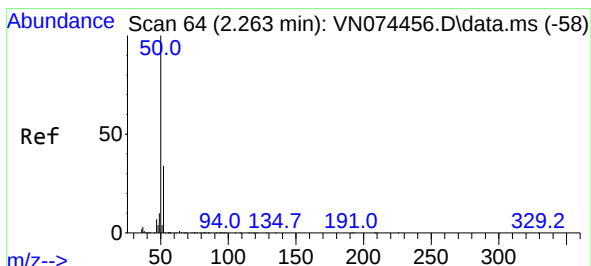
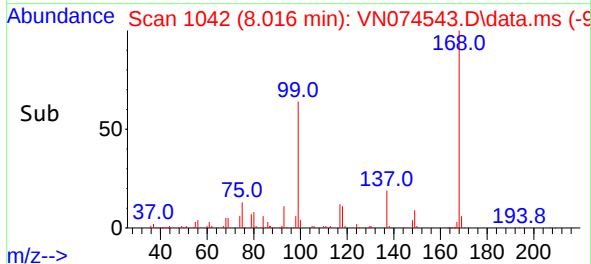
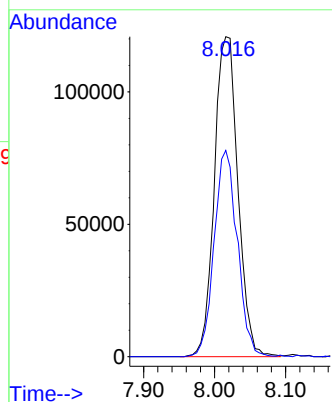
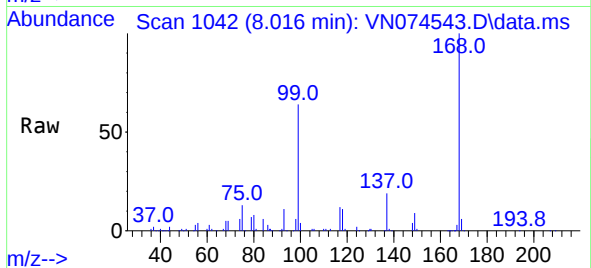




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

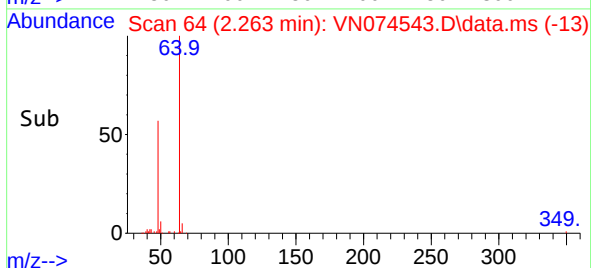
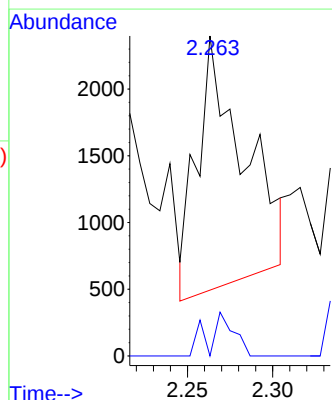
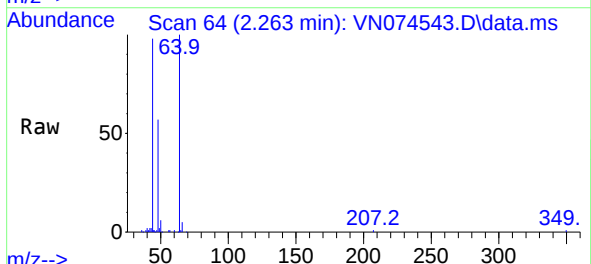
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MSVOA_N
ClientSampleId :
MW-59

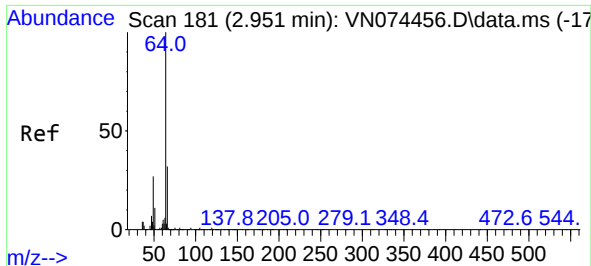
Tgt Ion:168 Resp: 278048
Ion Ratio Lower Upper
168 100
99 64.4 42.3 63.5#



#3
Chloromethane
Concen: 0.962 ug/l
RT: 2.263 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 50 Resp: 3600
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

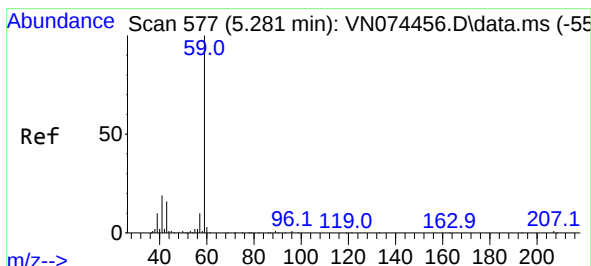
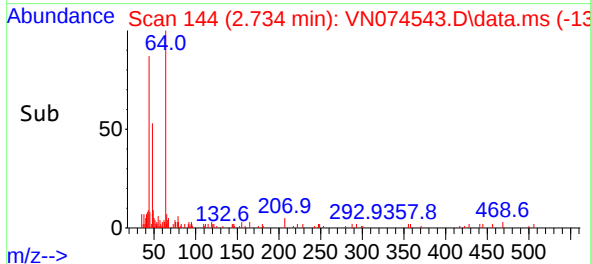
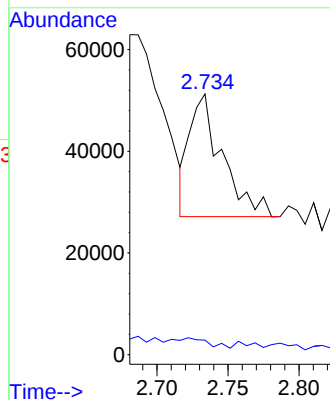
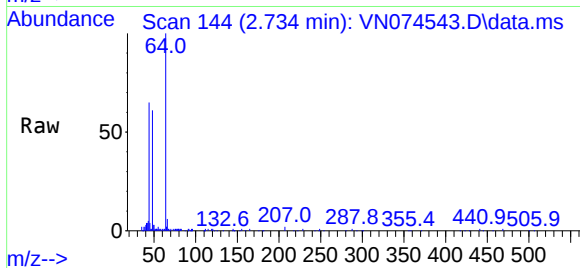




#6
Chloroethane
Concen: 10.337 ug/l
RT: 2.734 min Scan# 14
Delta R.T. -0.217 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

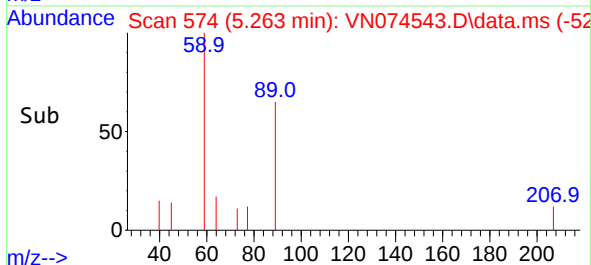
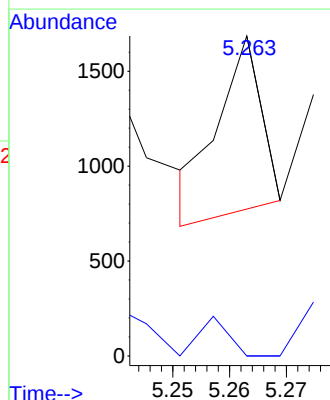
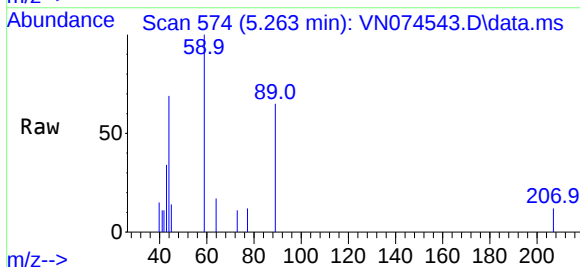
Instrument :
MSVOA_N
ClientSampleId :
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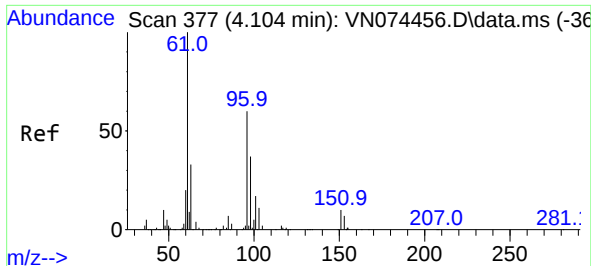
Tgt Ion: 64 Resp: 38462
Ion Ratio Lower Upper
64 100
66 2.5 26.2 39.4#



#11
Tert butyl alcohol
Concen: 0.319 ug/l
RT: 5.263 min Scan# 574
Delta R.T. -0.018 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 59 Resp: 490
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

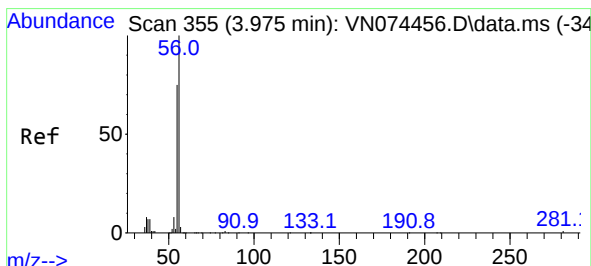
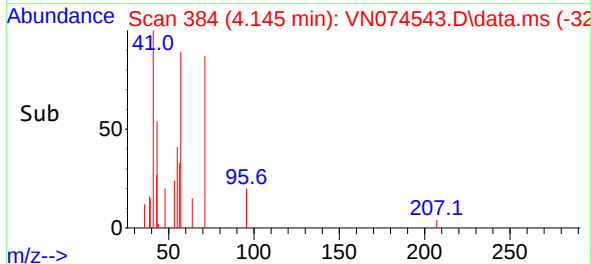
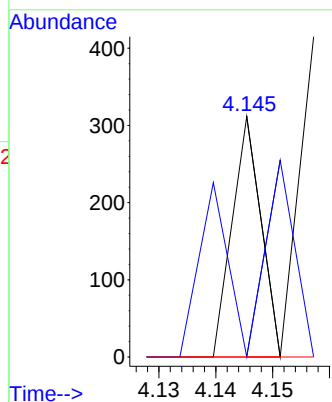
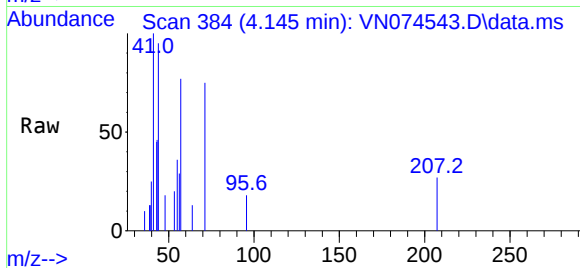




#12
1,1-Dichloroethene
Concen: 0.714 ug/l
RT: 4.145 min Scan# 31
Delta R.T. 0.041 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

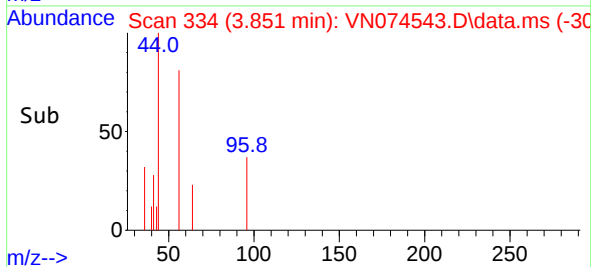
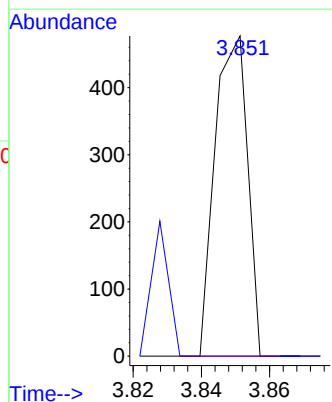
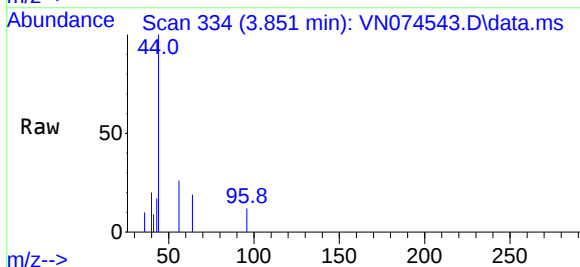
Instrument :
MSVOA_N
ClientSampleId :
MW-59

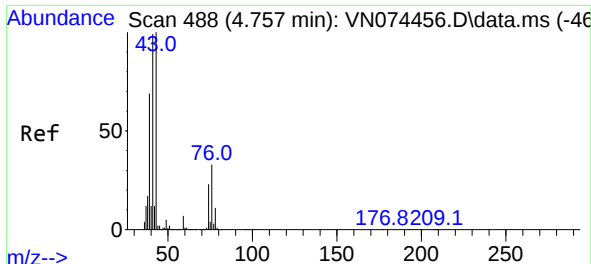
Tgt Ion: 96 Resp: 110
Ion Ratio Lower Upper
96 100
61 0.0 127.6 191.4#
98 0.0 51.2 76.8#



#13
Acrolein
Concen: 0.563 ug/l
RT: 3.851 min Scan# 334
Delta R.T. -0.124 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 56 Resp: 316
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#

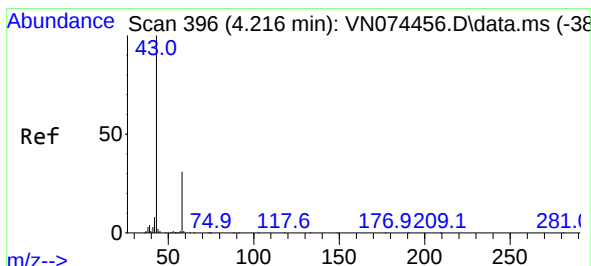
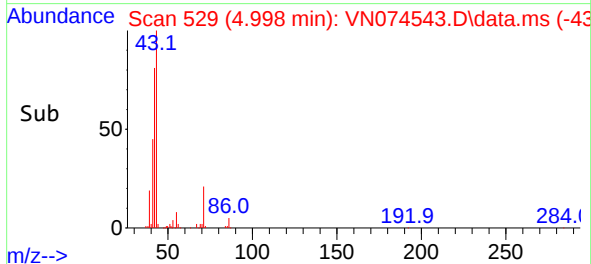
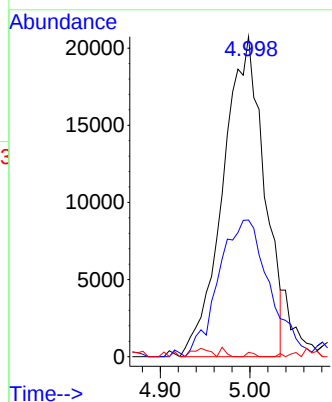
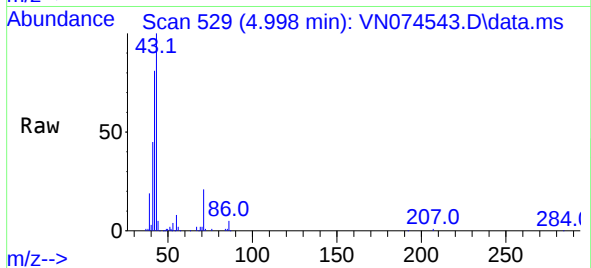




#14
Allyl chloride
Concen: 7.533 ug/l
RT: 4.998 min Scan# 51
Delta R.T. 0.241 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

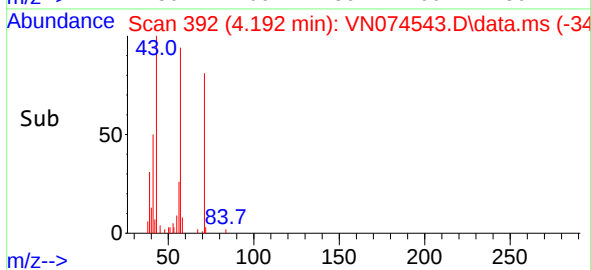
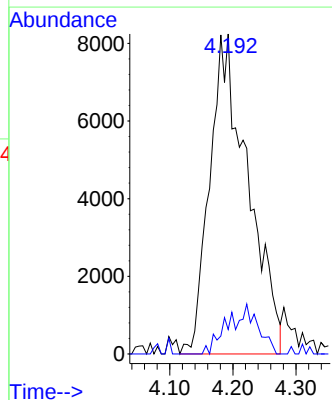
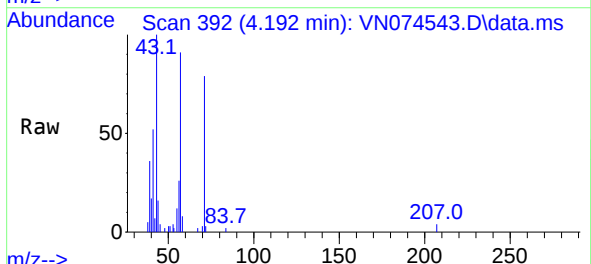
Instrument :
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ClientSampleId :
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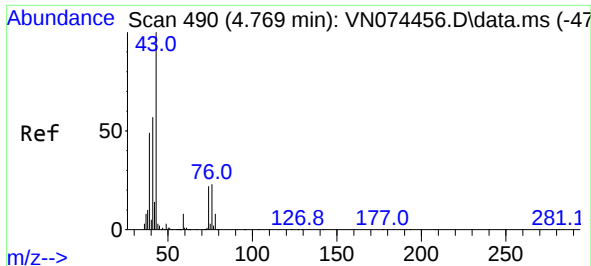
Tgt Ion: 41 Resp: 65866
Ion Ratio Lower Upper
41 100
39 49.0 53.2 79.8#
76 0.3 29.9 44.9#



#16
Acetone
Concen: 11.479 ug/l
RT: 4.192 min Scan# 392
Delta R.T. -0.024 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 43 Resp: 34655
Ion Ratio Lower Upper
43 100
58 7.6 26.0 39.0#

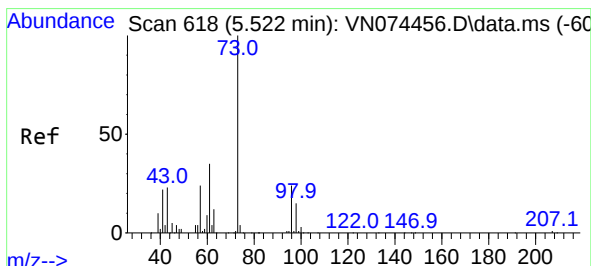
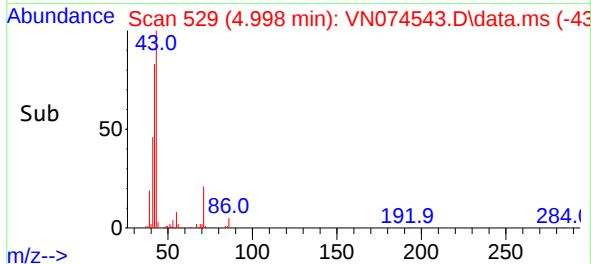
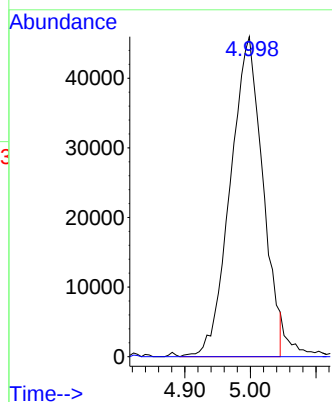
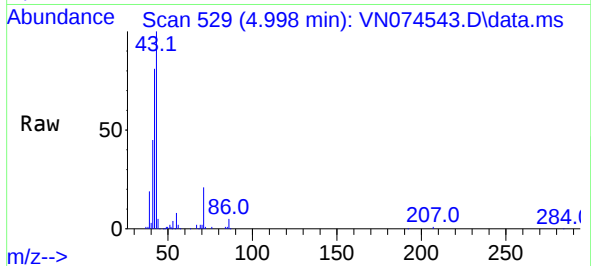




#18
Methyl Acetate
Concen: 16.807 ug/l
RT: 4.998 min Scan# 51
Delta R.T. 0.229 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

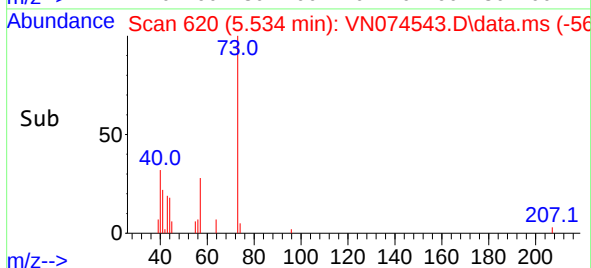
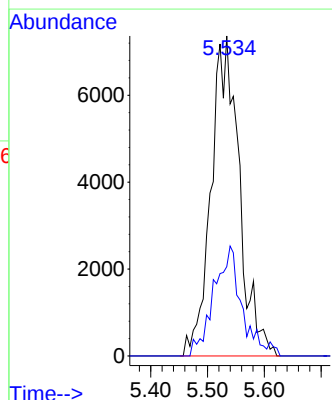
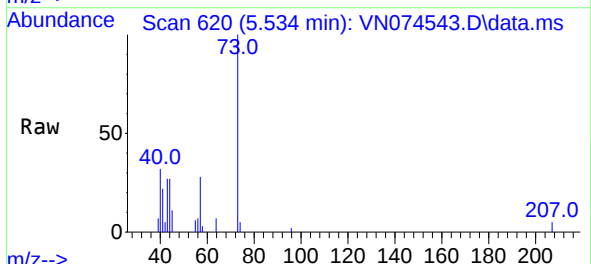
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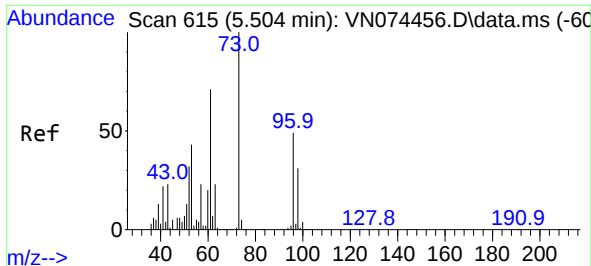
Tgt Ion: 43 Resp: 157594
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4#



#19
Methyl tert-butyl Ether
Concen: 1.642 ug/l
RT: 5.534 min Scan# 620
Delta R.T. 0.012 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 73 Resp: 25335
Ion Ratio Lower Upper
73 100
57 27.9 17.6 26.4#

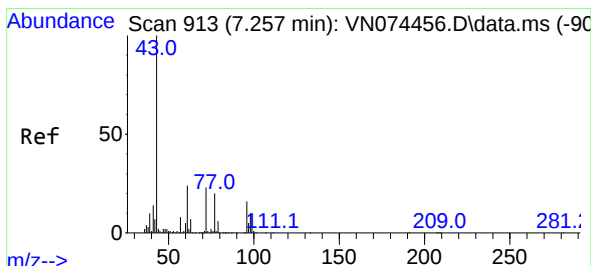
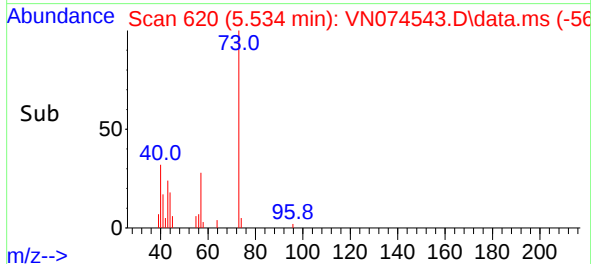
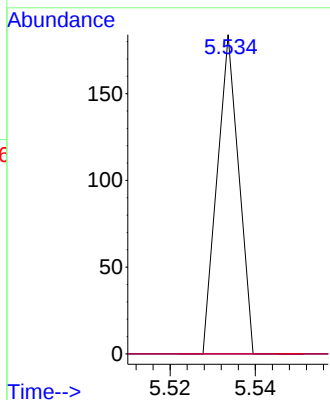
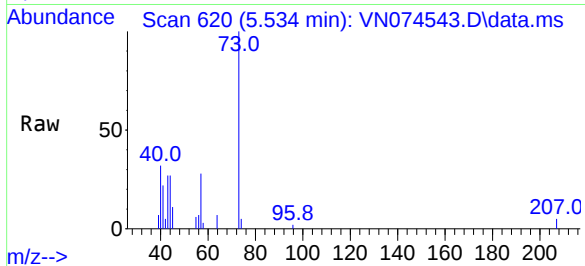




#21
trans-1,2-Dichloroethene
Concen: 0.445 ug/l
RT: 5.534 min Scan# 615
Delta R.T. 0.030 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

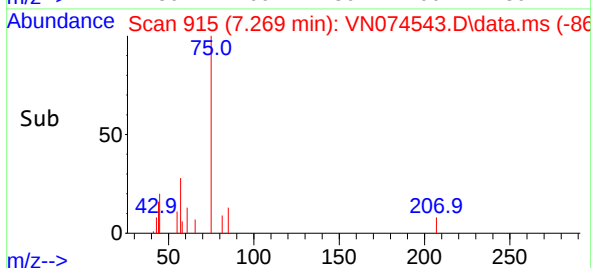
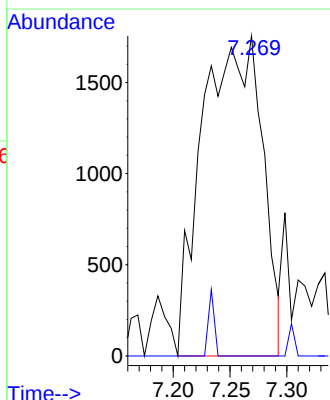
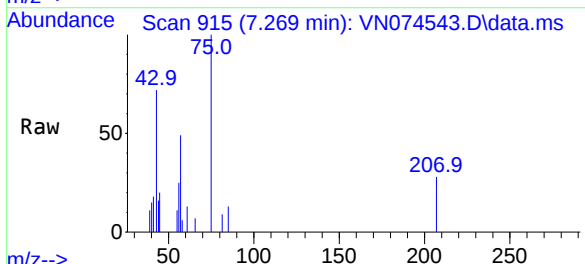
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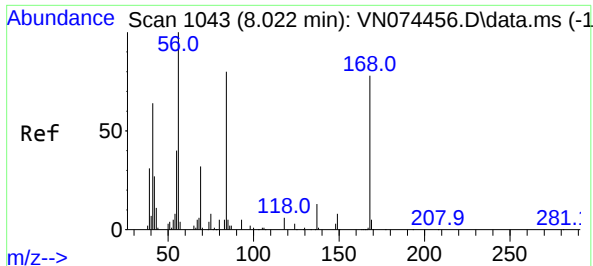
Tgt Ion: 96 Resp: 65
Ion Ratio Lower Upper
96 100
61 0.0 105.8 158.8#
98 0.0 50.3 75.5#



#25
2-Butanone
Concen: 1.280 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 43 Resp: 6416
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#

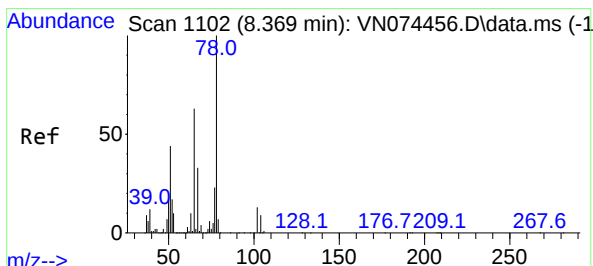
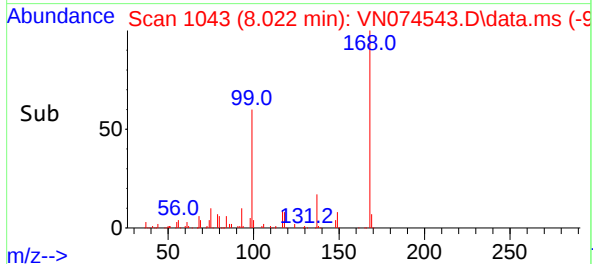
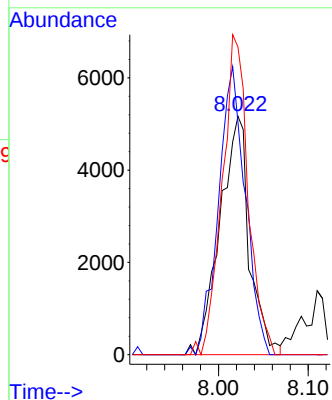
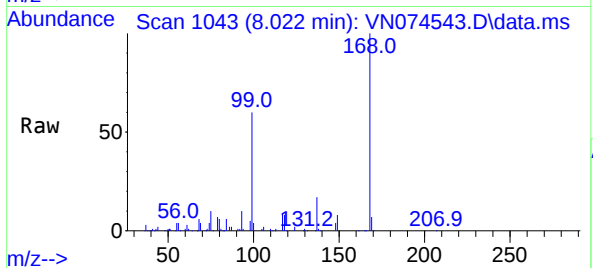




#31
Cyclohexane
Concen: 1.406 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

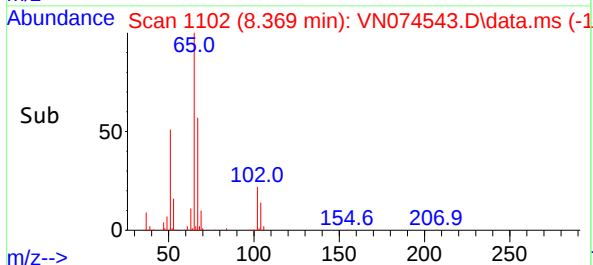
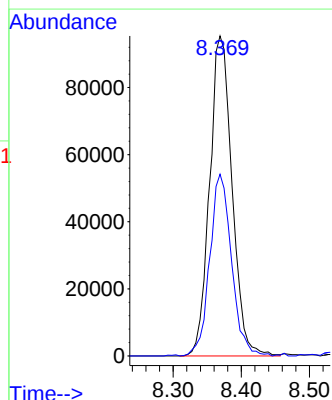
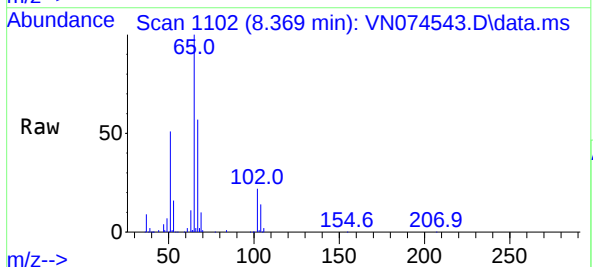
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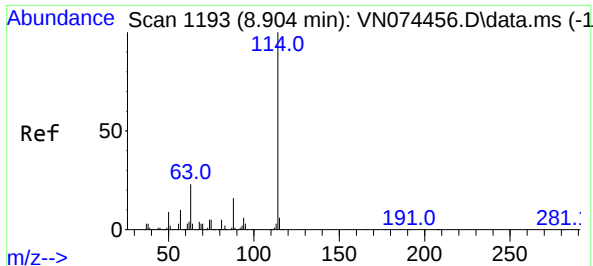
Tgt Ion: 56 Resp: 11772
Ion Ratio Lower Upper
56 100
69 97.5 27.8 41.8#
84 129.0 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 46.323 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 65 Resp: 218540
Ion Ratio Lower Upper
65 100
67 55.1 0.0 104.8

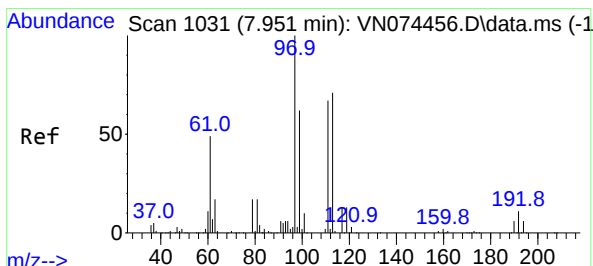
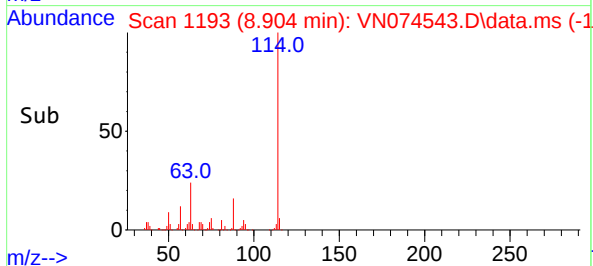
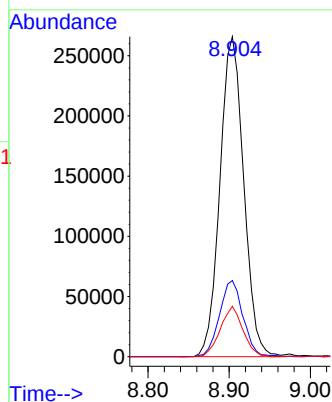
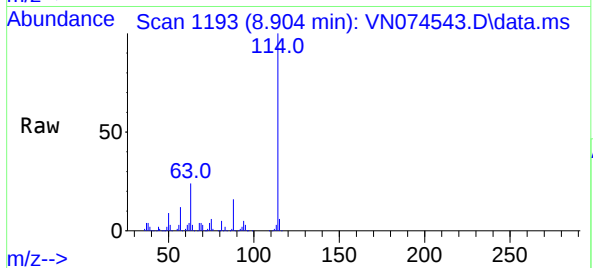




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

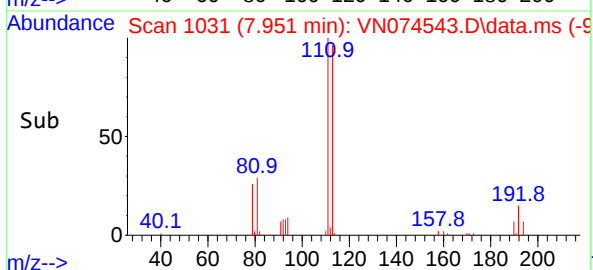
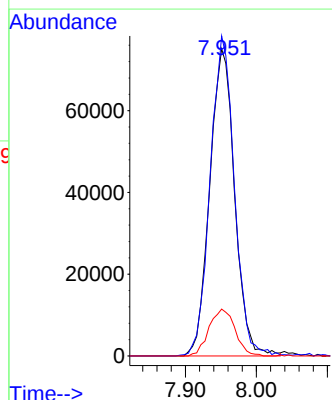
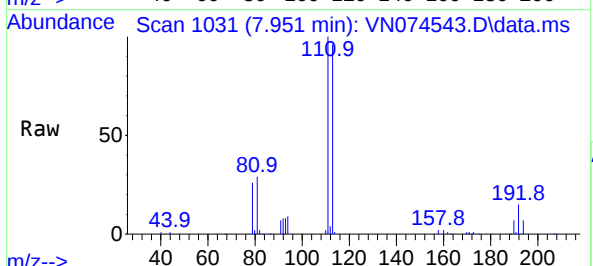
Instrument :
MSVOA_N
ClientSampleId :
MW-59

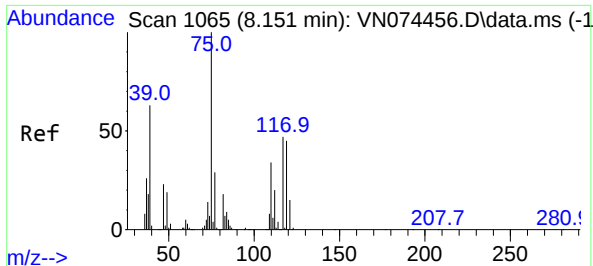
Tgt Ion:	114	Resp:	541365
Ion Ratio	Lower	Upper	
114	100		
63	23.8	0.0	40.0
88	15.8	0.0	32.6



#35
Dibromofluoromethane
Concen: 50.767 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion:	113	Resp:	182568
Ion Ratio	Lower	Upper	
113	100		
111	101.6	81.4	122.0
192	16.0	17.0	25.6#

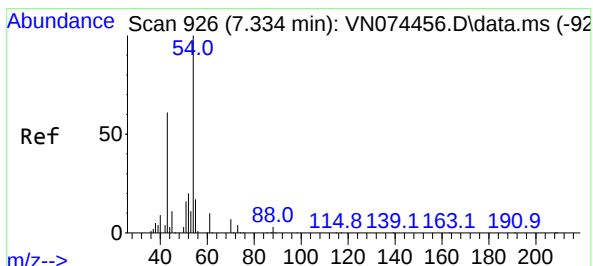
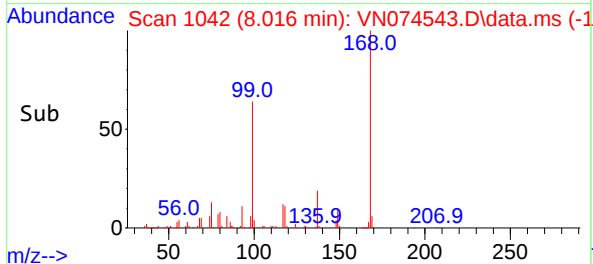
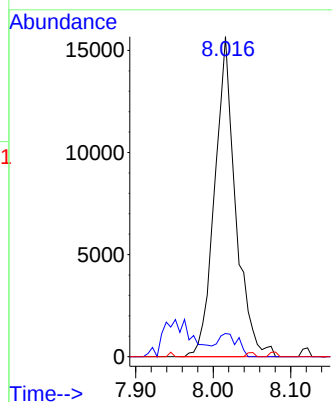
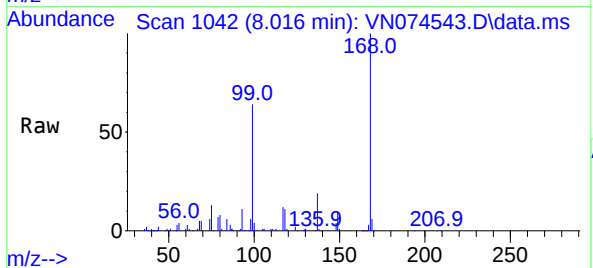




#36
1,1-Dichloropropene
Concen: 4.624 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.135 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

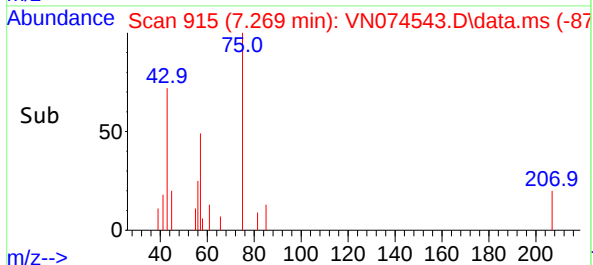
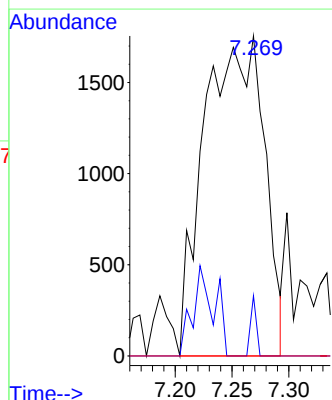
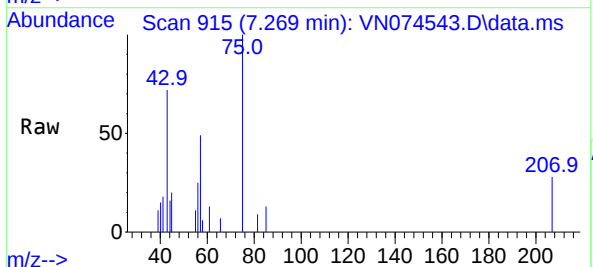
Instrument :
MSVOA_N
ClientSampleId :
MW-59

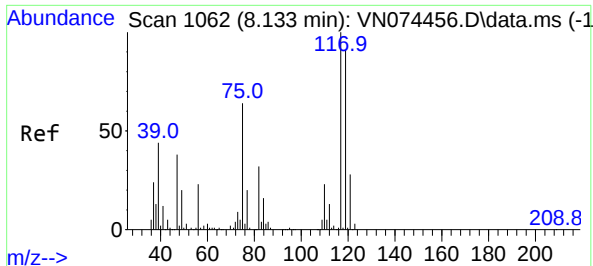
Tgt Ion: 75 Resp: 29434
Ion Ratio Lower Upper
75 100
110 6.9 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 0.653 ug/l
RT: 7.269 min Scan# 915
Delta R.T. -0.065 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 43 Resp: 6416
Ion Ratio Lower Upper
43 100
61 1.8 11.8 17.6#
70 0.0 9.3 13.9#

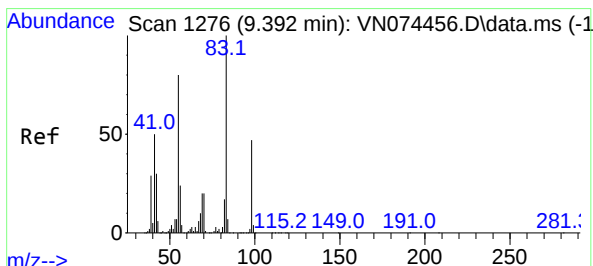
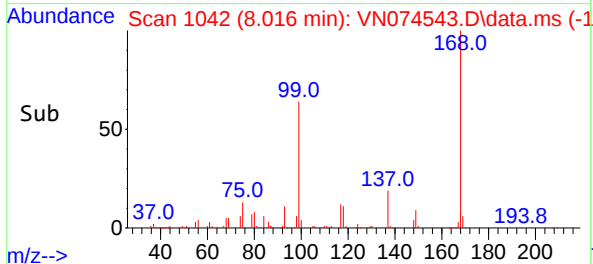
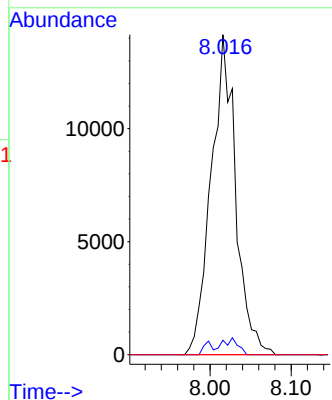
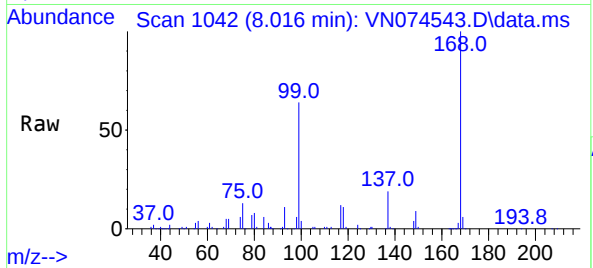




#38
Carbon Tetrachloride
Concen: 5.062 ug/l
RT: 8.016 min Scan# 1062
Delta R.T. -0.117 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

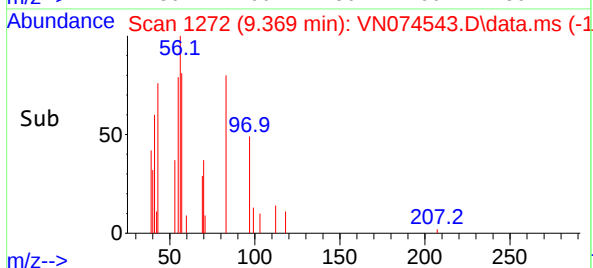
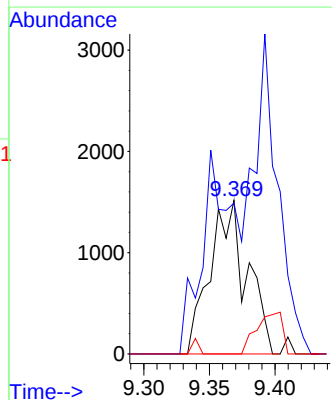
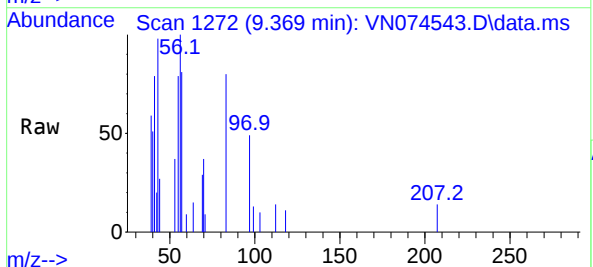
Instrument :
MSVOA_N
ClientSampleId :
MW-59

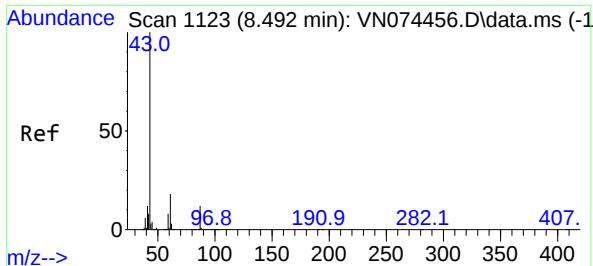
Tgt Ion:117 Resp: 29749
Ion Ratio Lower Upper
117 100
119 4.5 75.8 113.8#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 0.393 ug/l
RT: 9.369 min Scan# 1272
Delta R.T. -0.023 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 83 Resp: 2972
Ion Ratio Lower Upper
83 100
55 98.3 57.8 86.8#
98 0.0 39.4 59.2#

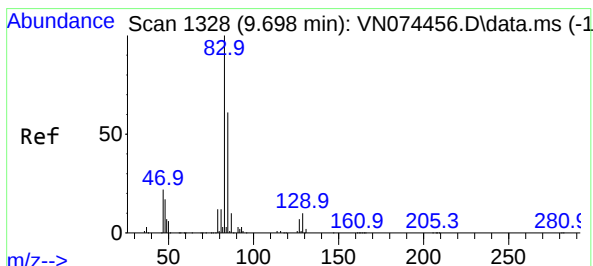
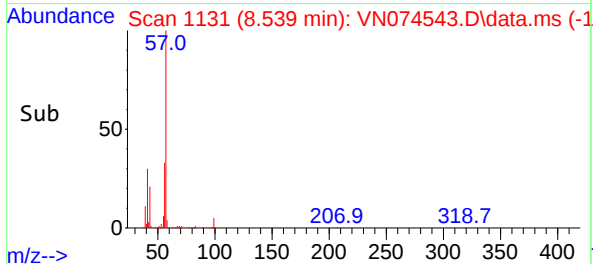
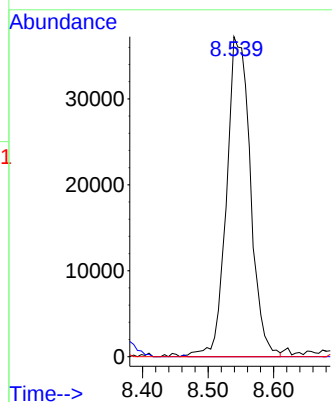
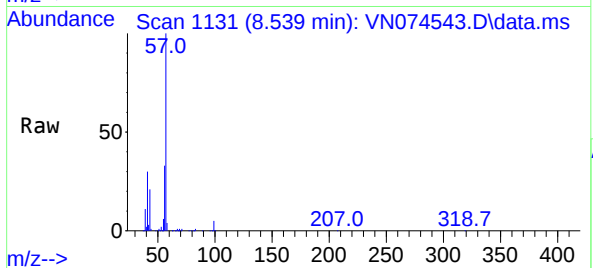




#43
Isopropyl Acetate
Concen: 6.096 ug/l
RT: 8.539 min Scan# 1123
Delta R.T. 0.047 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

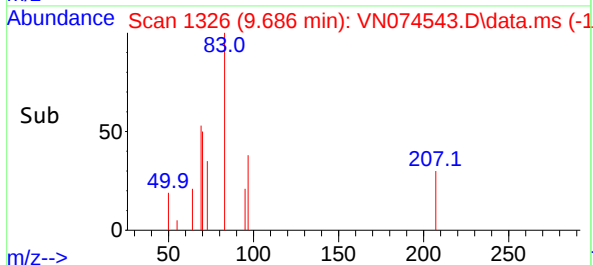
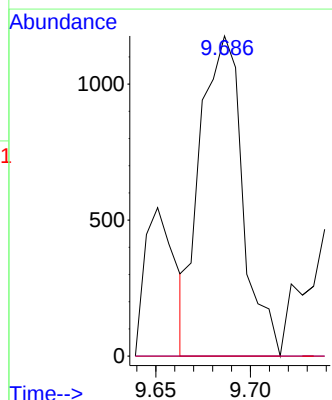
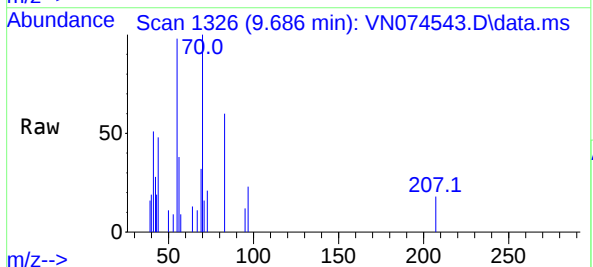
Instrument :
MSVOA_N
ClientSampleId :
MW-59

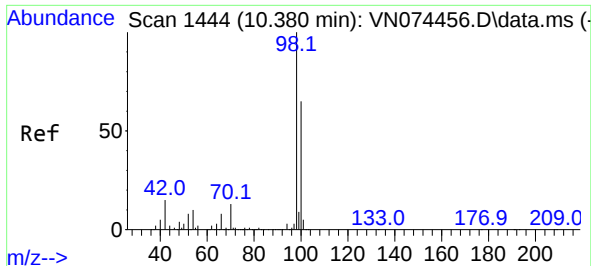
Tgt Ion: 43 Resp: 93863
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#



#47
Bromodichloromethane
Concen: 0.277 ug/l
RT: 9.686 min Scan# 1326
Delta R.T. -0.012 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 83 Resp: 1837
Ion Ratio Lower Upper
83 100
85 0.0 50.5 75.7#
127 0.0 6.8 10.2#

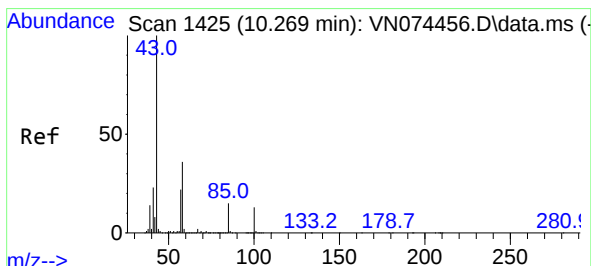
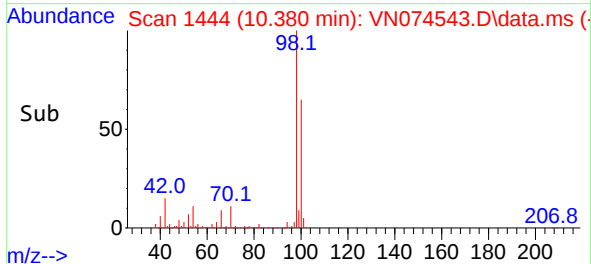
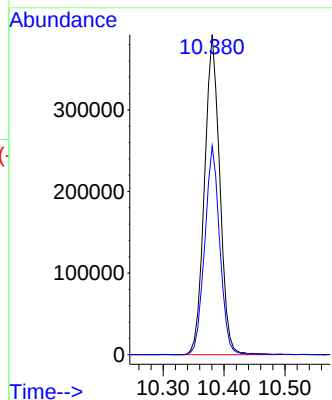
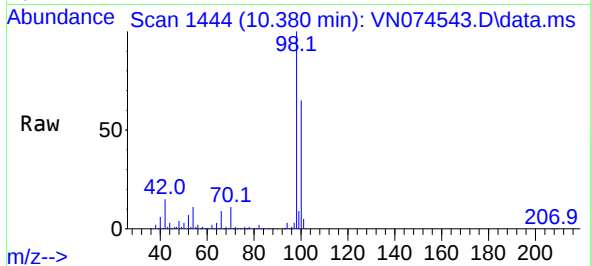




#50
Toluene-d8
Concen: 49.030 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

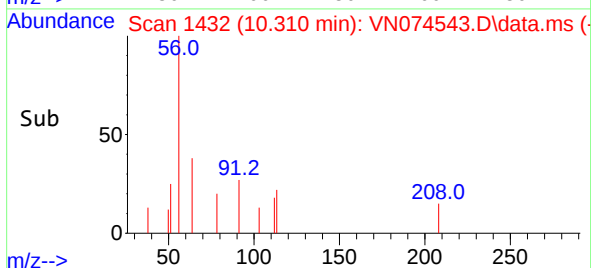
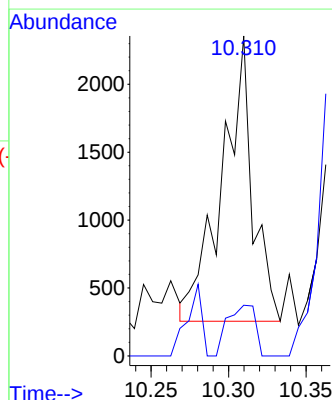
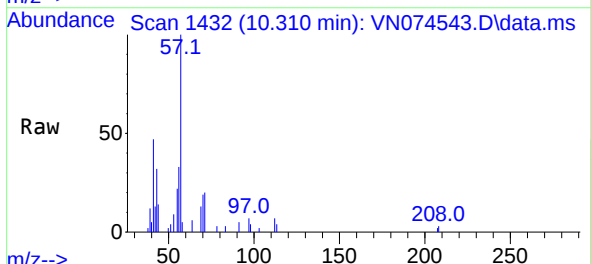
Instrument :
MSVOA_N
ClientSampleId :
MW-59

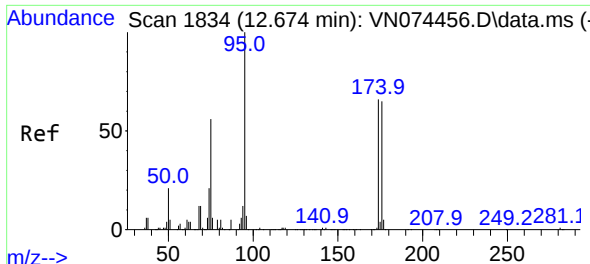
Tgt Ion: 98 Resp: 681893
Ion Ratio Lower Upper
98 100
100 64.4 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.286 ug/l
RT: 10.310 min Scan# 1432
Delta R.T. 0.041 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 43 Resp: 2874
Ion Ratio Lower Upper
43 100
58 16.2 34.1 51.1#

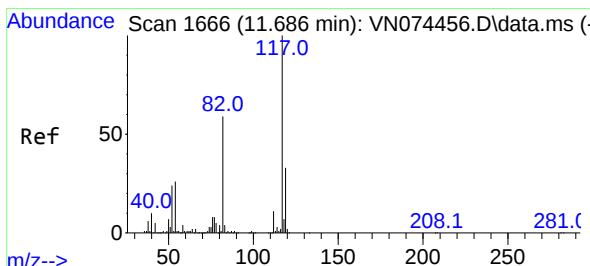
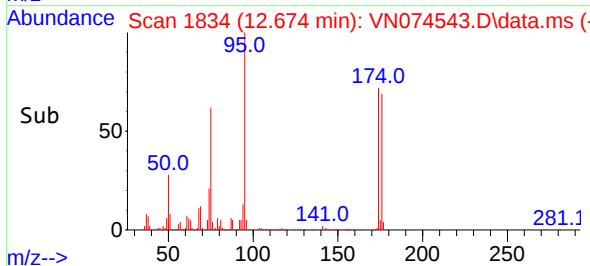
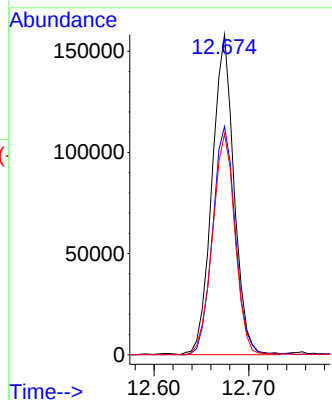
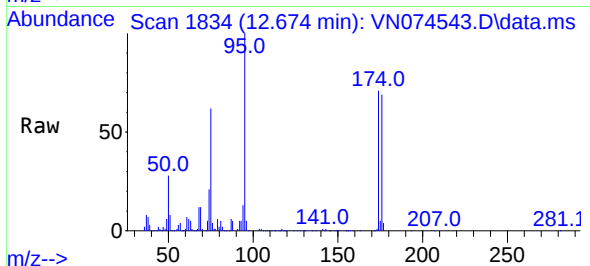




#62
4-Bromofluorobenzene
Concen: 53.448 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

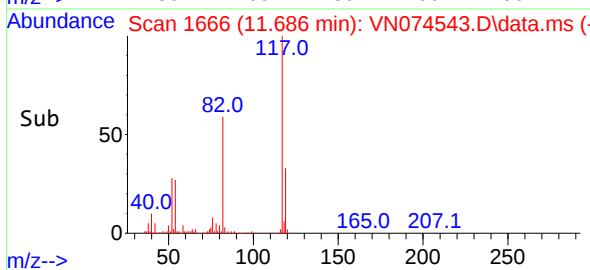
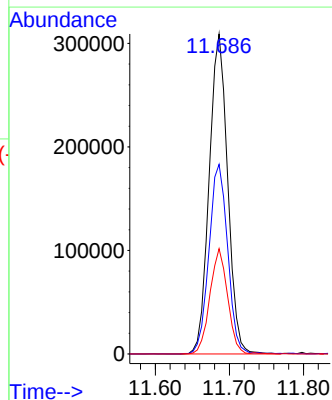
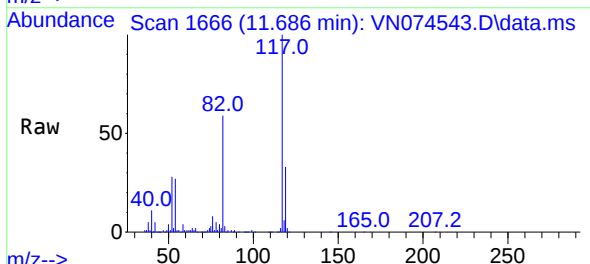
Instrument :
MSVOA_N
ClientSampleId :
MW-59

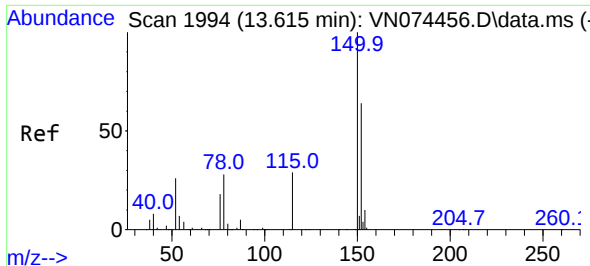
Tgt Ion: 95 Resp: 254592
Ion Ratio Lower Upper
95 100
174 73.9 0.0 167.6
176 70.9 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 117 Resp: 534446
Ion Ratio Lower Upper
117 100
82 59.3 44.2 66.2
119 32.9 25.4 38.0



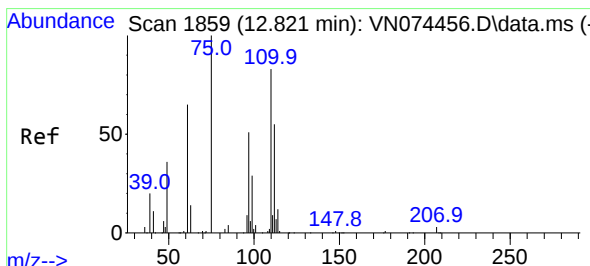
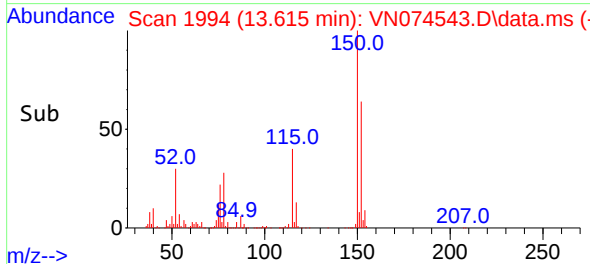
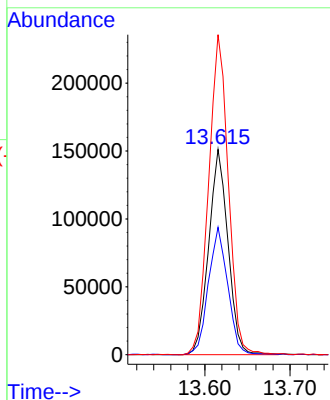
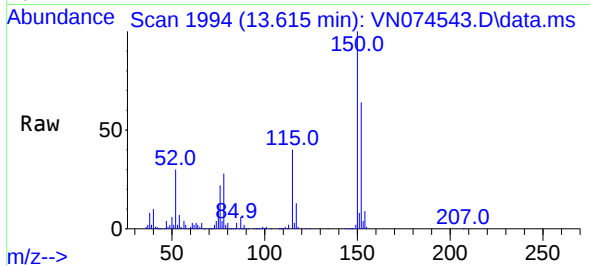


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.615 min Scan# 1994
 Delta R.T. 0.000 min
 Lab File: VN074543.D
 Acq: 17 Sep 2022 05:21

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-59

Tgt Ion:152 Resp: 237972

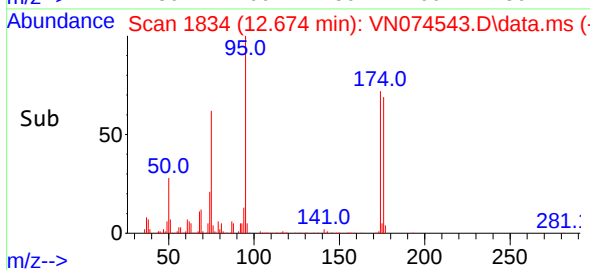
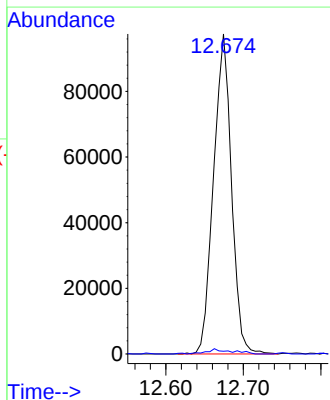
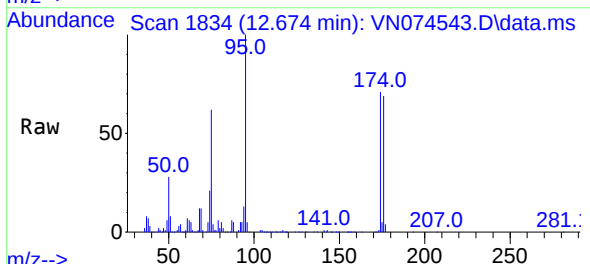
Ion	Ratio	Lower	Upper
152	100		
115	62.3	28.9	86.7
150	158.7	0.0	356.2

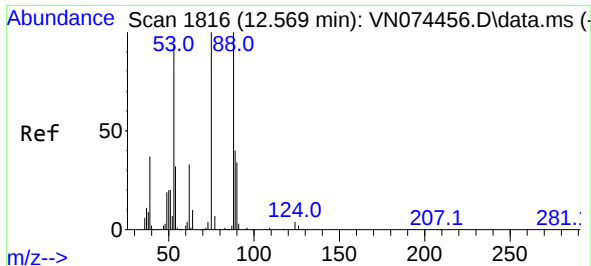


#76
 1,2,3-Trichloropropane
 Concen: 21.369 ug/l
 RT: 12.674 min Scan# 1834
 Delta R.T. -0.147 min
 Lab File: VN074543.D
 Acq: 17 Sep 2022 05:21

Tgt Ion: 75 Resp: 156528

Ion	Ratio	Lower	Upper
75	100		
77	1.6	98.5	295.5#

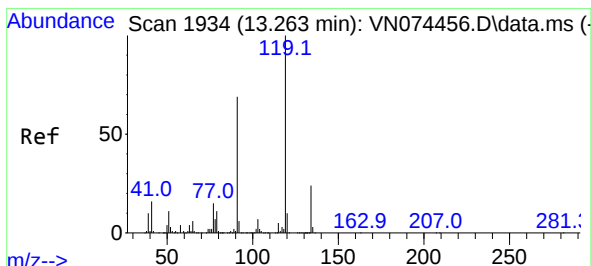
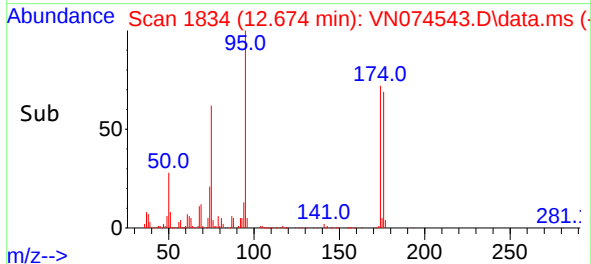
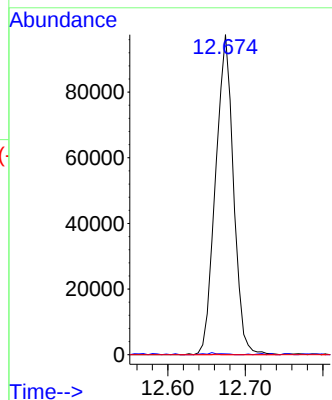
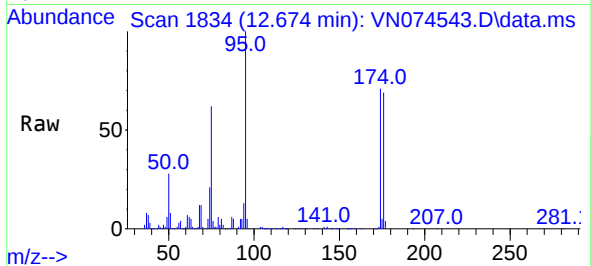




#81
trans-1,4-Dichloro-2-butene
Concen: 46.121 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.105 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

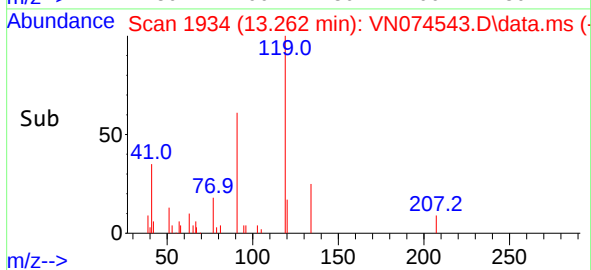
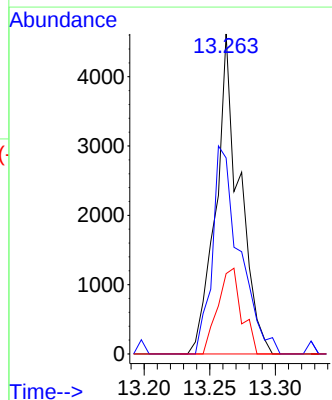
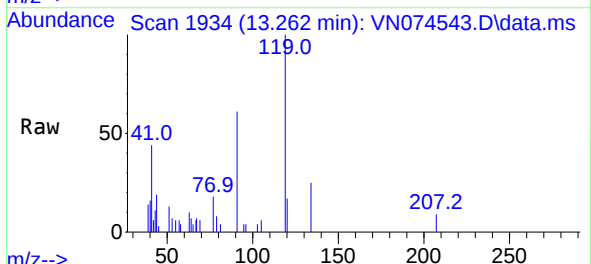
Instrument :
MSVOA_N
ClientSampleId :
MW-59

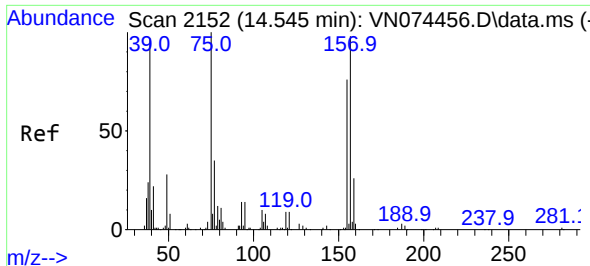
Tgt Ion: 75 Resp: 156528
Ion Ratio Lower Upper
75 100
53 0.5 78.0 117.0#
89 0.0 37.2 55.8#



#83
tert-Butylbenzene
Concen: 0.320 ug/l
RT: 13.262 min Scan# 1934
Delta R.T. -0.001 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Tgt Ion: 119 Resp: 5780
Ion Ratio Lower Upper
119 100
91 74.9 31.6 94.8
134 27.0 13.7 41.1

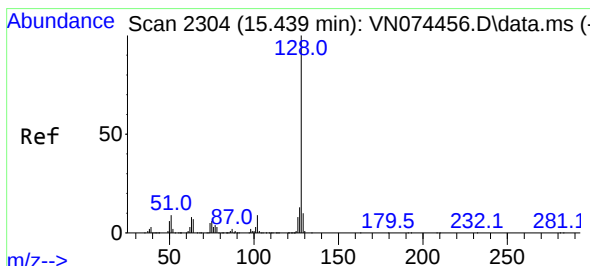
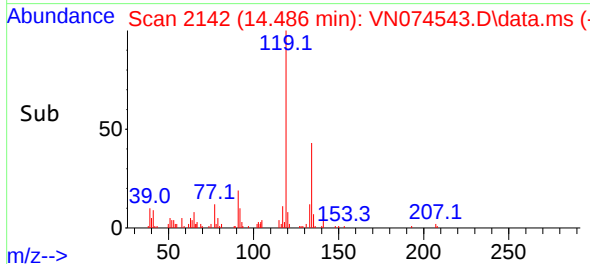
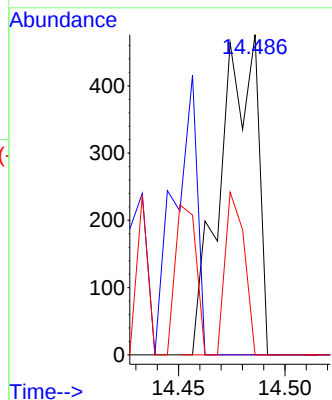
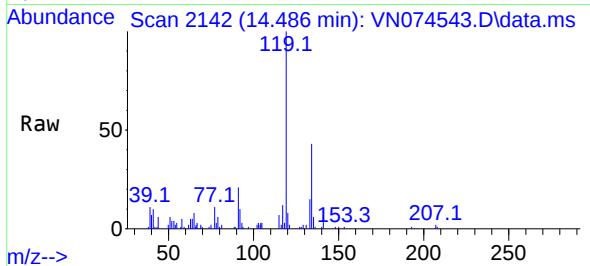




#92
1,2-Dibromo-3-Chloropropane
Concen: 0.269 ug/l
RT: 14.486 min Scan# 2152
Delta R.T. -0.059 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

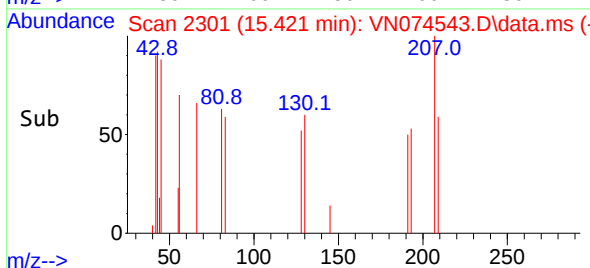
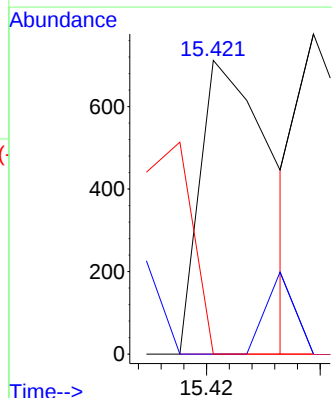
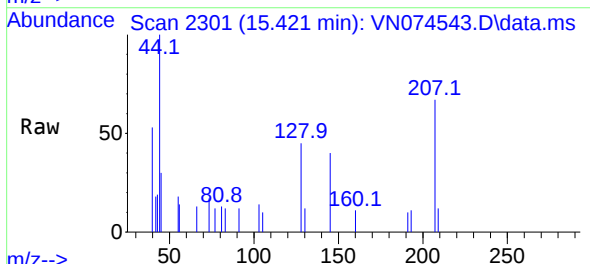
Instrument :
MSVOA_N
ClientSampleId :
MW-59

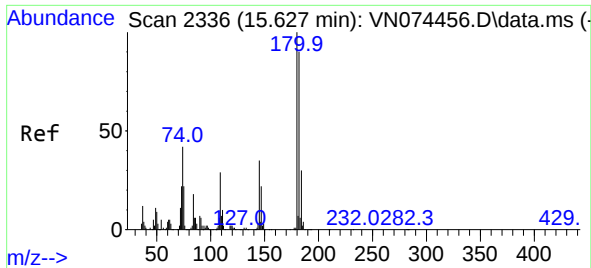
Tgt Ion: 75 Resp: 580
Ion Ratio Lower Upper
75 100
155 0.0 44.9 134.5#
157 26.0 59.0 176.8#



#95
Naphthalene
Concen: 1.619 ug/l
RT: 15.421 min Scan# 2301
Delta R.T. -0.018 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

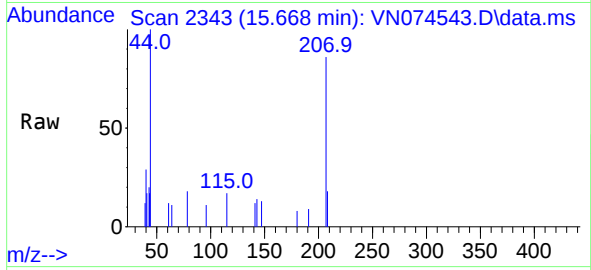
Tgt Ion:128 Resp: 626
Ion Ratio Lower Upper
128 100
127 11.2 10.3 15.5
129 0.0 8.6 13.0#





#96
1,2,3-Trichlorobenzene
Concen: 1.348 ug/l
RT: 15.668 min Scan# 21
Delta R.T. 0.041 min
Lab File: VN074543.D
Acq: 17 Sep 2022 05:21

Instrument :
MSVOA_N
ClientSampleId :
MW-59



Tgt Ion:180 Resp: 55
Ion Ratio Lower Upper
180 100
182 147.3 47.8 143.3#
145 518.2 15.5 46.5#

