

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078724.D
 Acq On : 01 Aug 2023 18:37
 Operator : JC\MD
 Sample : VN0801WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0801WBL01

Quant Time: Aug 02 04:27:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:20:43 2023
 Response via : Initial Calibration

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

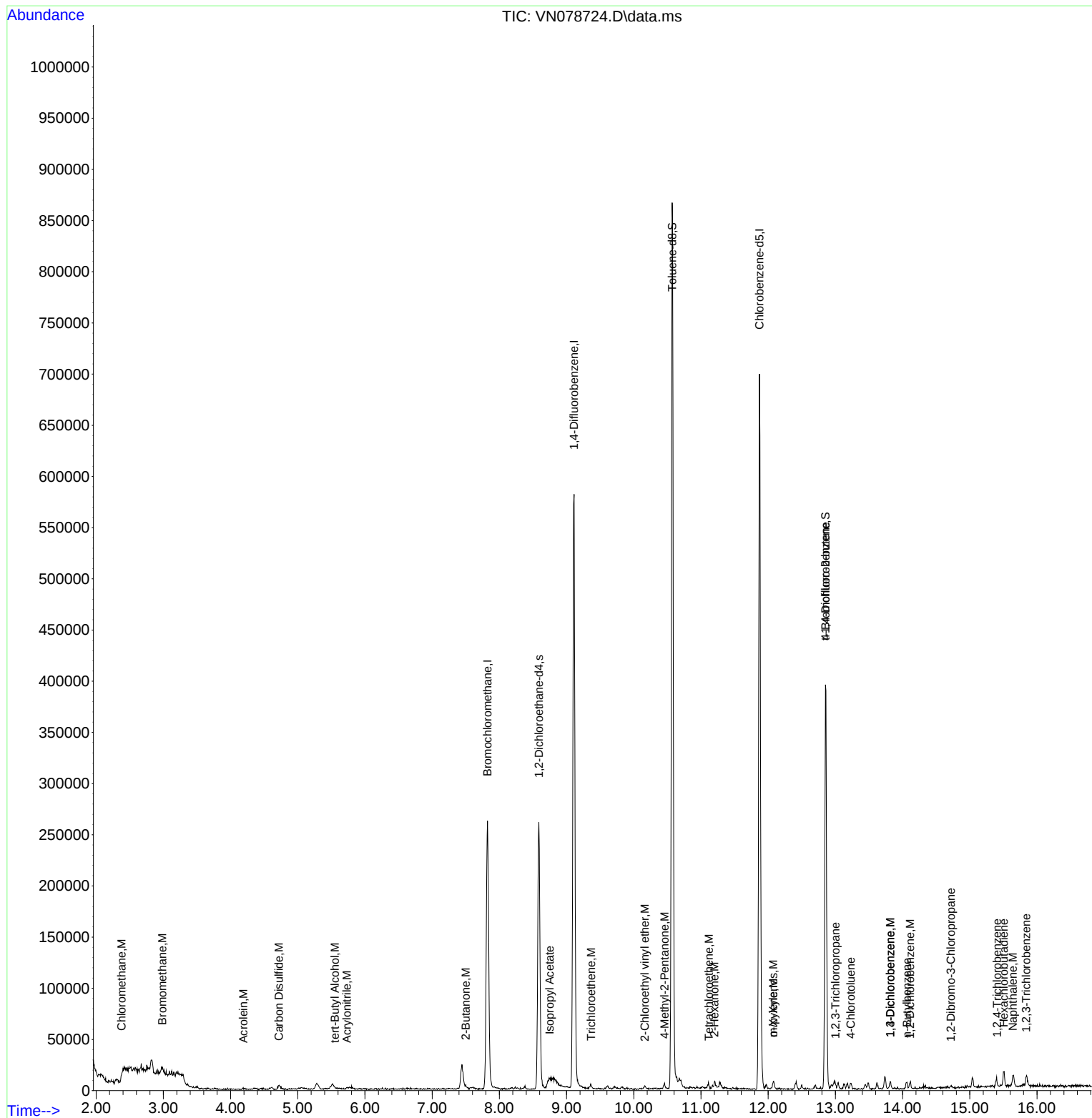
Internal Standards						
1) Bromochloromethane	7.824	128	98908	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	524307	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	423670	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	215438	29.058	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.867%
60) 4-Bromofluorobenzene	12.853	95	139819	22.021	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	73.400%
63) Toluene-d8	10.571	98	637285	30.450	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.500%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1872	0.244	ug/l #	64
5) Bromomethane	2.983	94	5143	0.659	ug/l	98
13) Acrolein	4.189	56	742	0.780	ug/l #	44
14) Acrylonitrile	5.730	53	787	0.301	ug/l	89
16) Carbon Disulfide	4.718	76	4417	0.284	ug/l	95
23) tert-Butyl Alcohol	5.553	59	409	0.382	ug/l #	100
30) 2-Butanone	7.500	43	641	0.210	ug/l #	52
37) Trichloroethene	9.365	130	1513	0.233	ug/l #	63
44) Isopropyl Acetate	8.747	43	10831	0.979	ug/l	90
55) 2-Chloroethyl vinyl ether	10.165	63	1748	0.658	ug/l #	68
58) 4-Methyl-2-Pentanone	10.459	43	3655	0.576	ug/l #	68
59) 2-Hexanone	11.200	43	4006	0.834	ug/l #	88
61) Tetrachloroethene	11.118	164	1117	0.200	ug/l #	63
67) m/p-Xylenes	12.076	106	2810	0.286	ug/l	98
68) o-Xylene	12.076	106	2810	0.281	ug/l	93
72) 1,2,3-Trichloropropane	13.000	75	1899	0.282	ug/l	81
77) t-1,4-Dichloro-2-butene	12.853	75	75707	32.189	ug/l #	15
78) 4-Chlorotoluene	13.229	91	3890	0.213	ug/l	93
83) 1,3-Dichlorobenzene	13.818	146	2882	0.268	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	2882	0.287	ug/l	93
85) n-Butylbenzene	14.065	91	4032	0.291	ug/l	90
87) 1,2-Dichlorobenzene	14.112	146	2862	0.285	ug/l	74
88) 1,2-Dibromo-3-Chloropr...	14.717	75	348	0.255	ug/l #	49
89) 1,2,4-Trichlorobenzene	15.406	180	1694	0.591	ug/l #	63
90) Hexachlorobutadiene	15.506	225	2534	1.160	ug/l	93
91) Naphthalene	15.641	128	9759	1.124	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.841	180	3646	1.118	ug/l	87

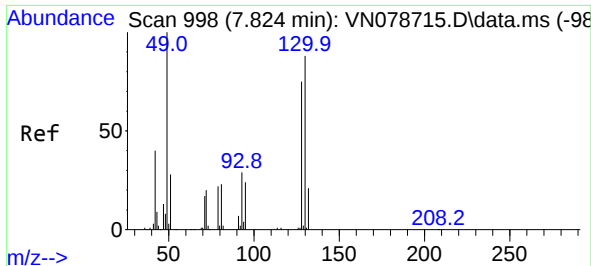
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 02 04:20:43 2023
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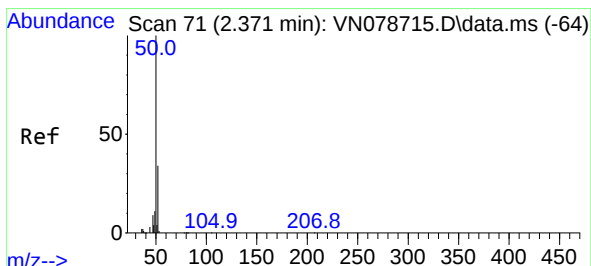
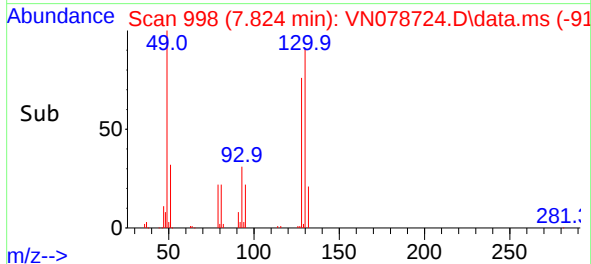
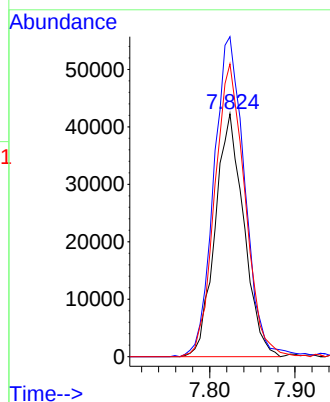
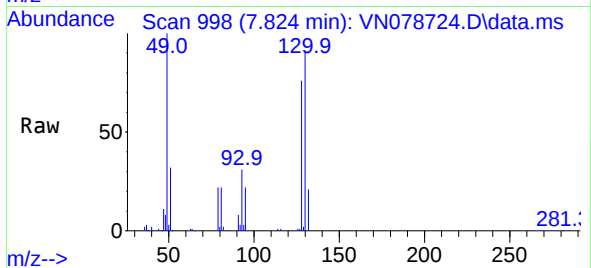




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

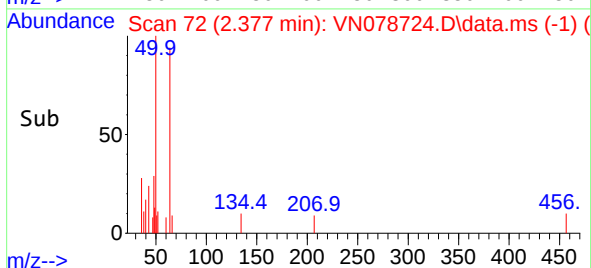
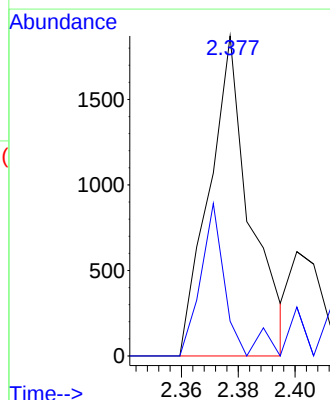
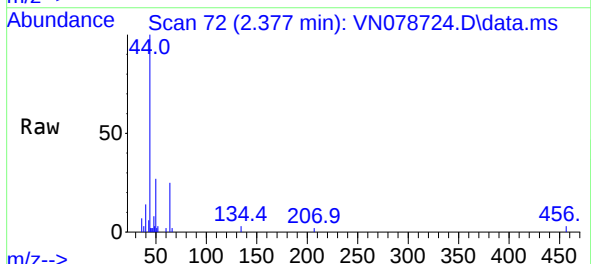
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

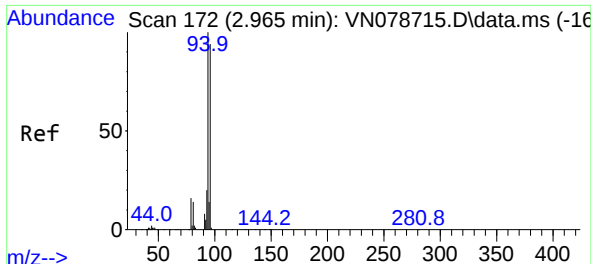
Tgt Ion:128 Resp: 98908
Ion Ratio Lower Upper
128 100
49 141.2 0.0 370.8
130 127.0 0.0 307.0



#3
Chloromethane
Concen: 0.244 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 50 Resp: 1872
Ion Ratio Lower Upper
50 100
52 10.8 24.6 36.8#

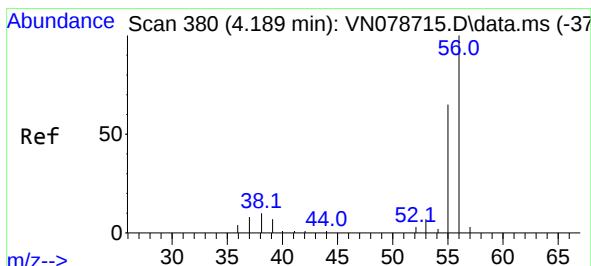
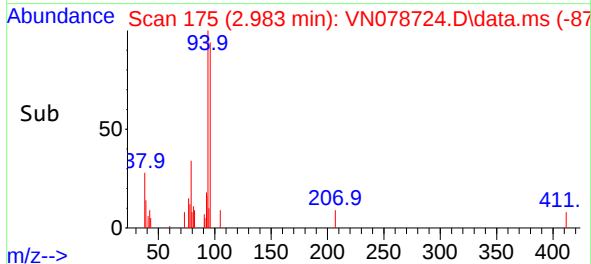
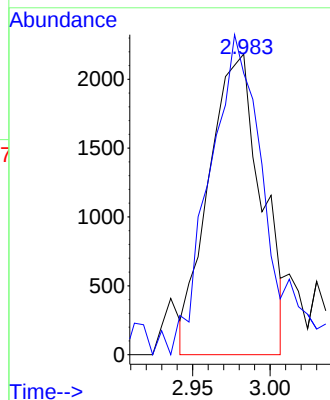
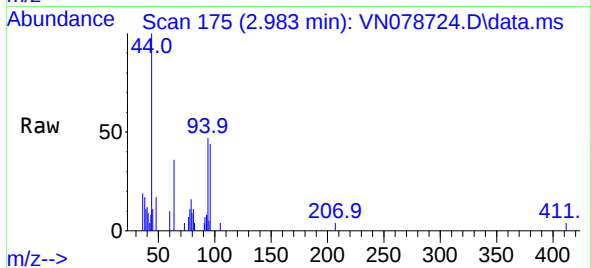




#5
Bromomethane
Concen: 0.659 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

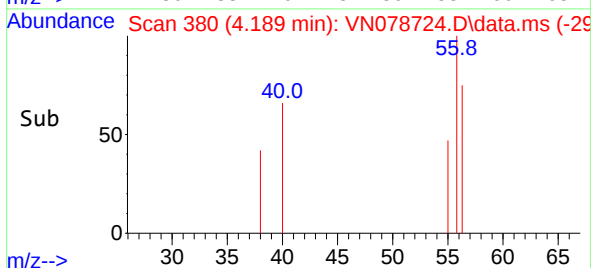
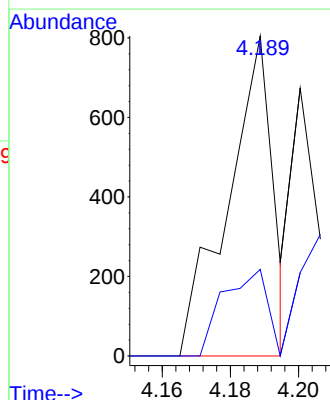
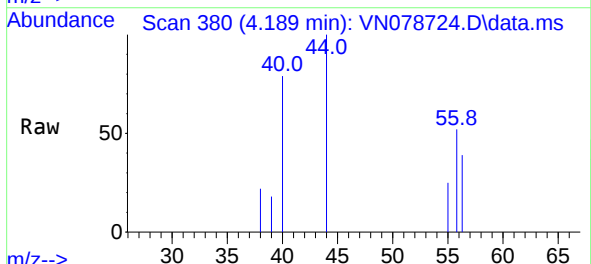
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

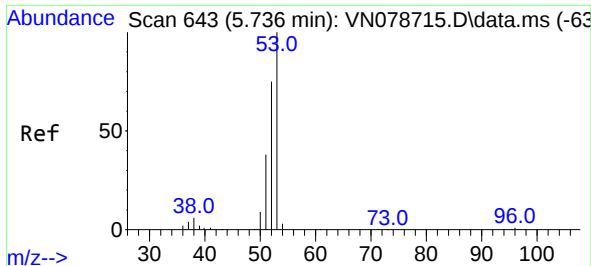
Tgt Ion: 94 Resp: 5143
Ion Ratio Lower Upper
94 100
96 90.9 73.9 110.9



#13
Acrolein
Concen: 0.780 ug/l
RT: 4.189 min Scan# 380
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 56 Resp: 742
Ion Ratio Lower Upper
56 100
55 26.1 59.0 88.4#

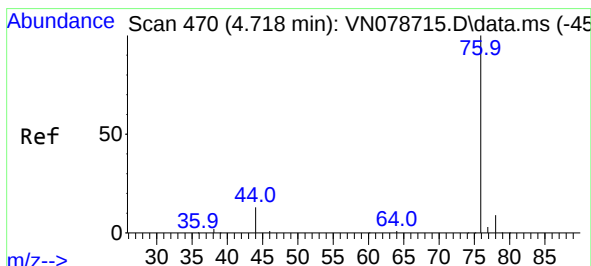
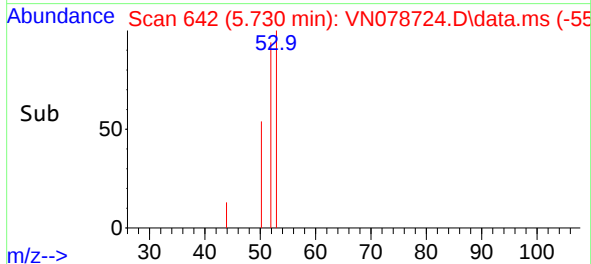
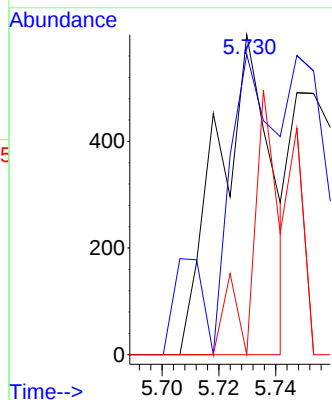
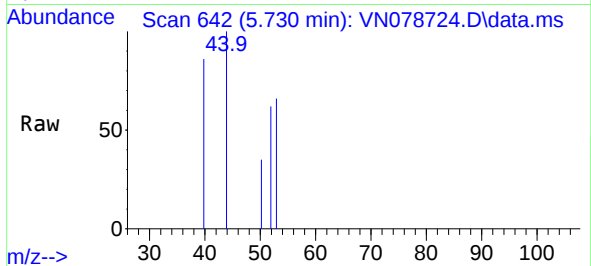




#14
Acrylonitrile
Concen: 0.301 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

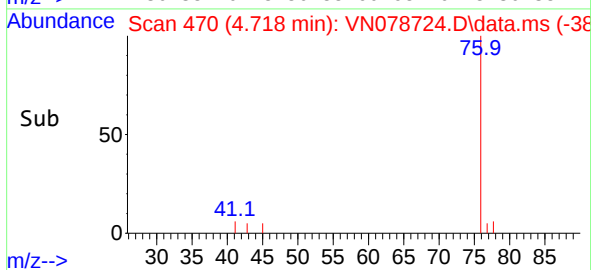
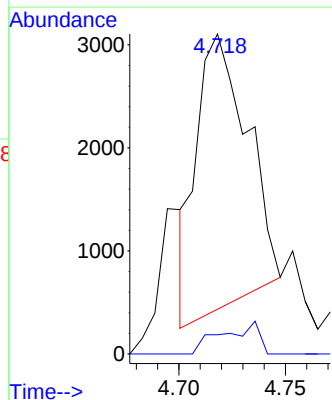
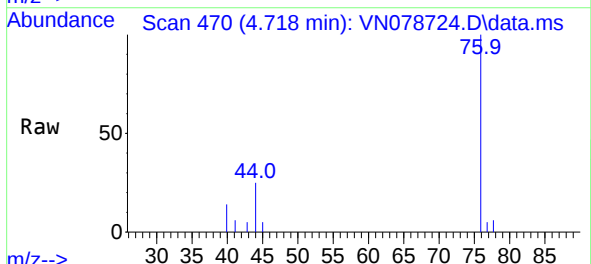
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

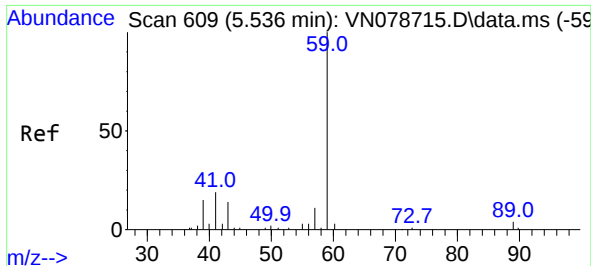
Tgt Ion: 53	Resp:	787	
Ion	Ratio	Lower	Upper
53	100		
52	80.1	42.3	126.9
51	51.5	18.4	55.4



#16
Carbon Disulfide
Concen: 0.284 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 76	Resp:	4417	
Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.7	11.5

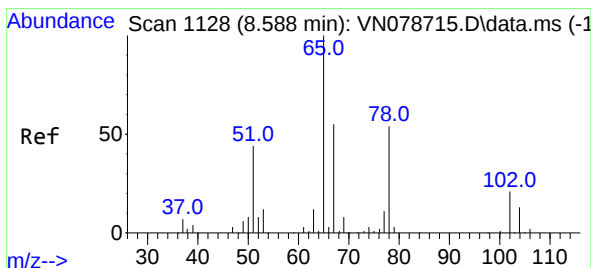
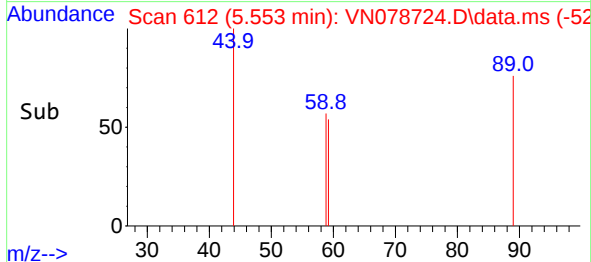
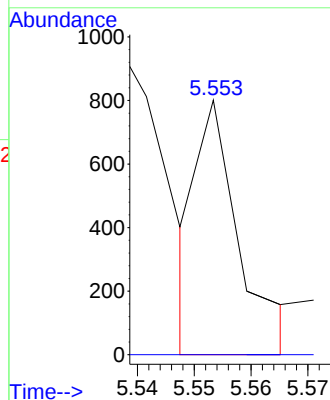
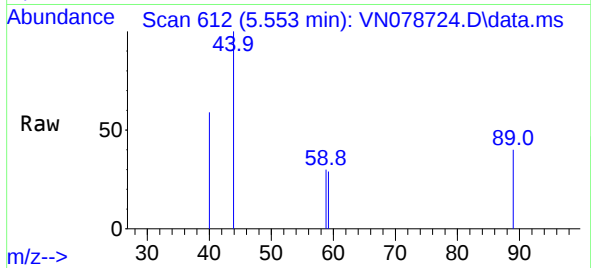




#23
tert-Butyl Alcohol
Concen: 0.382 ug/l
RT: 5.553 min Scan# 612
Delta R.T. 0.017 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

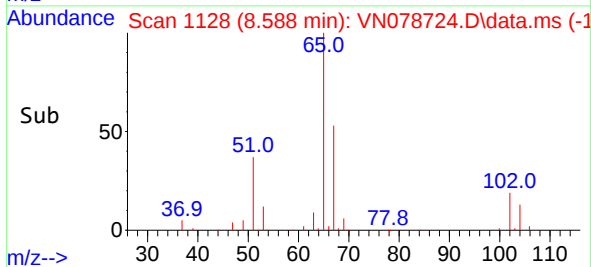
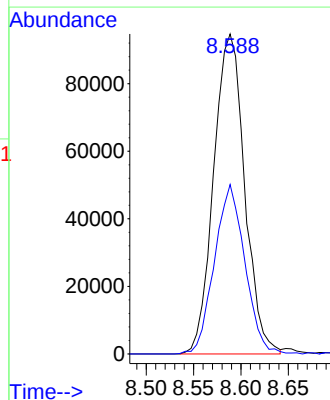
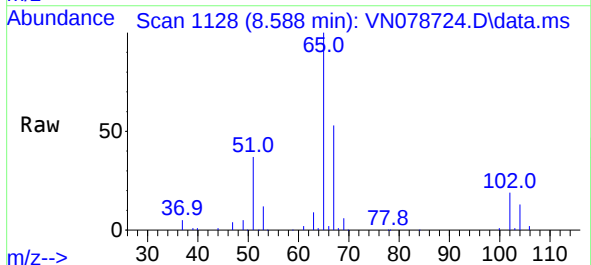
Instrument :
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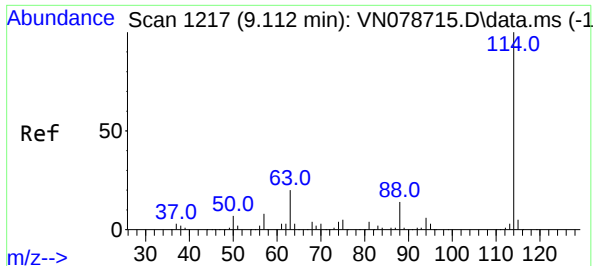
Tgt Ion: 59 Resp: 409
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 29.058 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 65 Resp: 215438
Ion Ratio Lower Upper
65 100
67 51.9 42.9 64.3

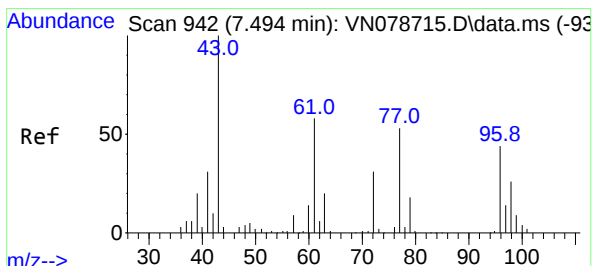
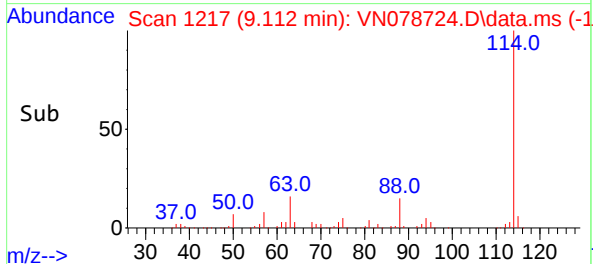
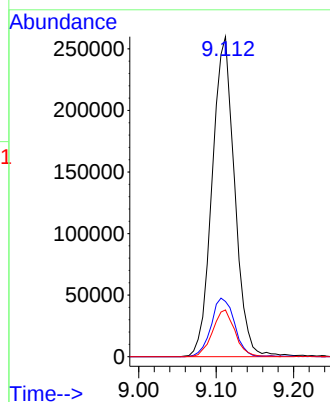
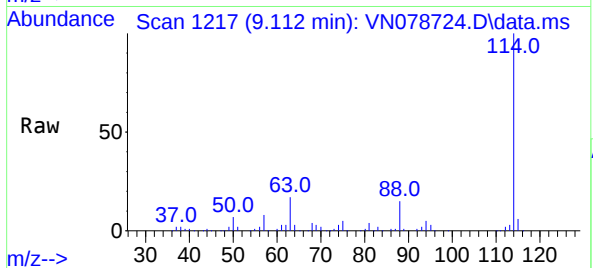




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

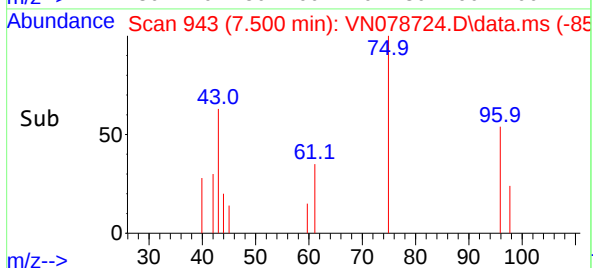
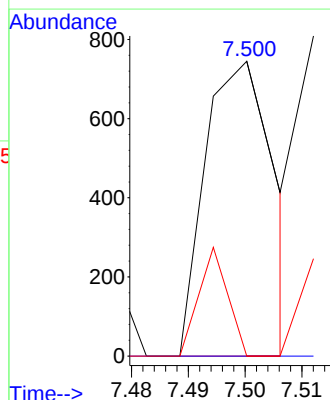
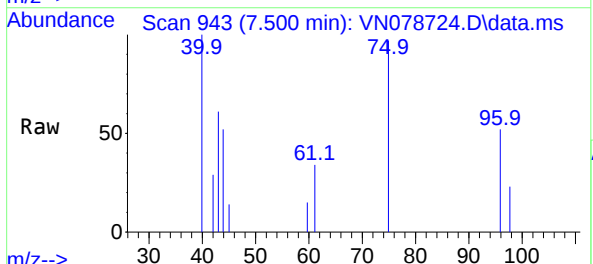
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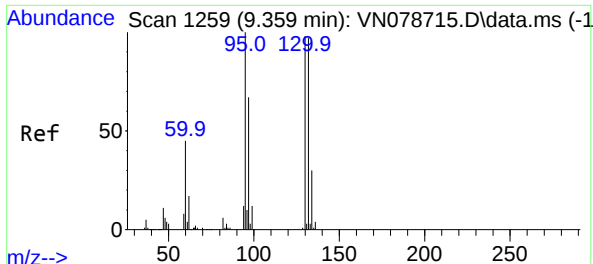
Tgt Ion:114 Resp: 524307
Ion Ratio Lower Upper
114 100
63 19.0 15.2 22.8
88 14.6 12.5 18.7



#30
2-Butanone
Concen: 0.210 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 43 Resp: 641
Ion Ratio Lower Upper
43 100
57 0.0 6.8 10.2#
72 0.0 23.8 35.6#

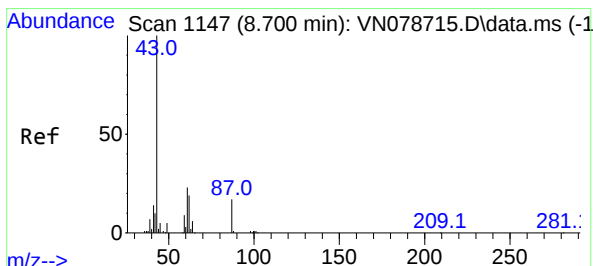
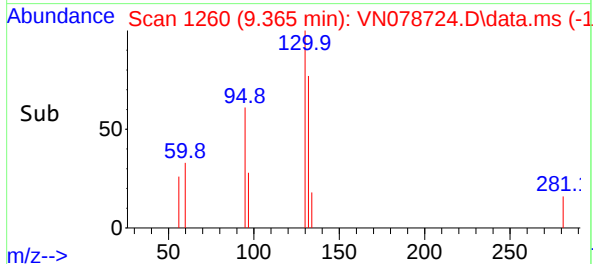
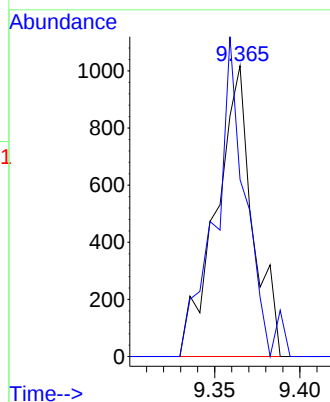
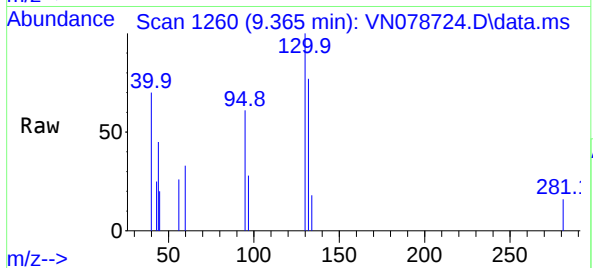




#37
Trichloroethene
Concen: 0.233 ug/l
RT: 9.365 min Scan# 1155
Delta R.T. 0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

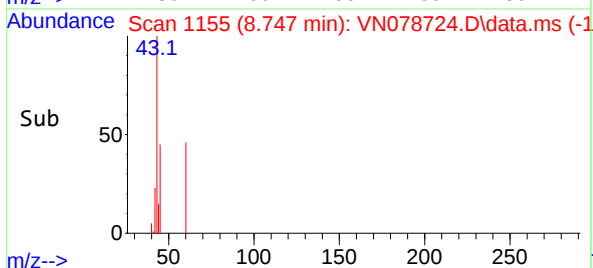
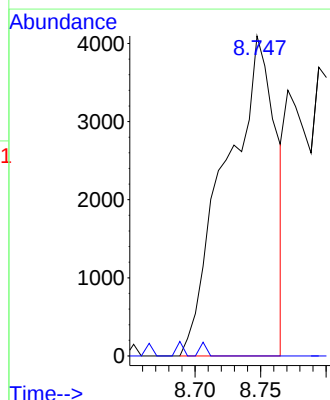
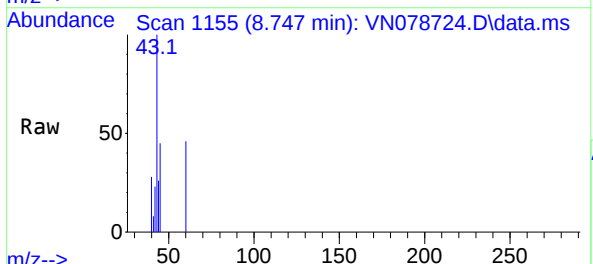
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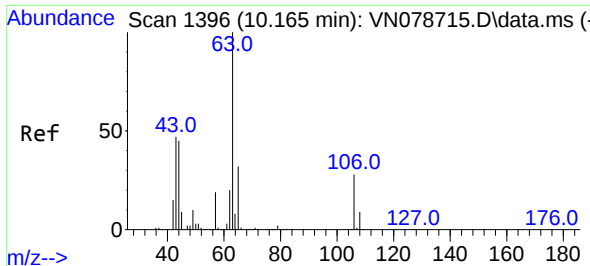
Tgt Ion:130 Resp: 1513
Ion Ratio Lower Upper
130 100
95 60.9 78.2 117.4#



#44
Isopropyl Acetate
Concen: 0.979 ug/l
RT: 8.747 min Scan# 1155
Delta R.T. 0.047 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 43 Resp: 10831
Ion Ratio Lower Upper
43 100
61 34.1 23.0 34.6

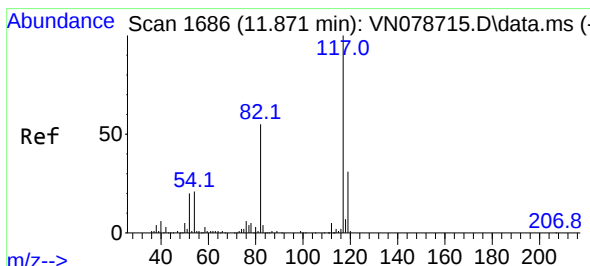
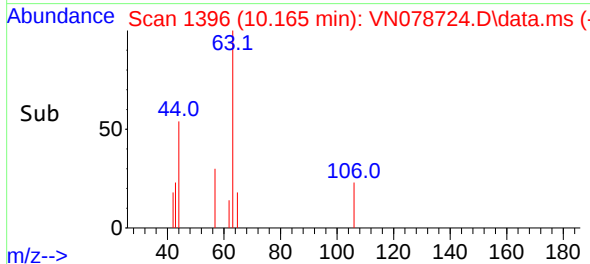
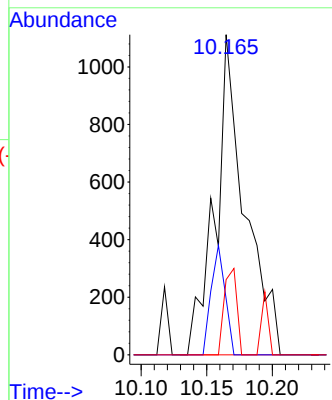
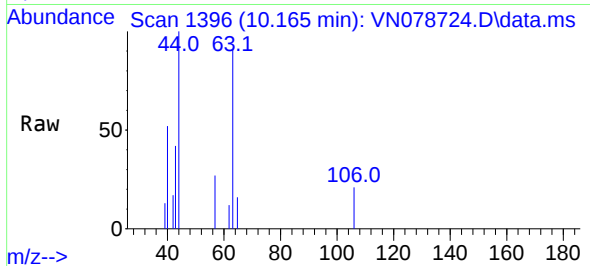




#55
2-Chloroethyl vinyl ether
Concen: 0.658 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

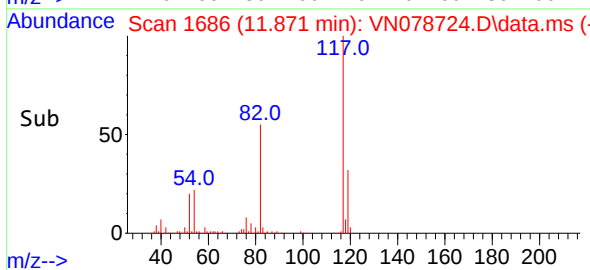
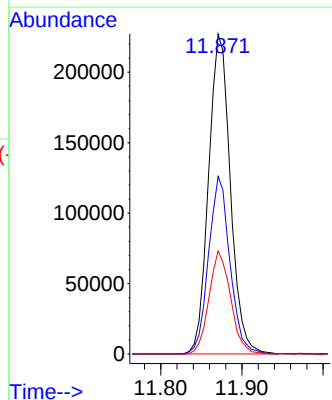
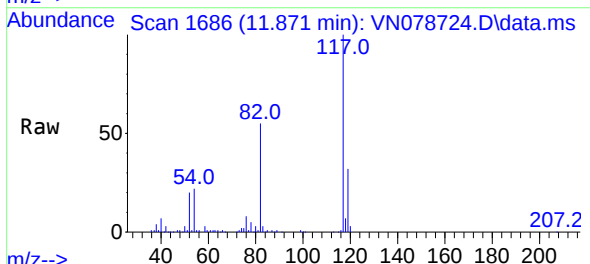
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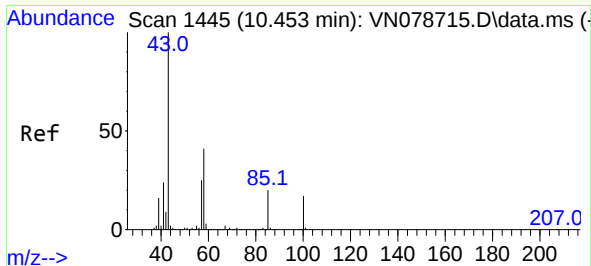
Tgt Ion: 63 Resp: 1748
Ion Ratio Lower Upper
63 100
65 16.1 26.3 39.5#
106 11.3 23.8 35.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

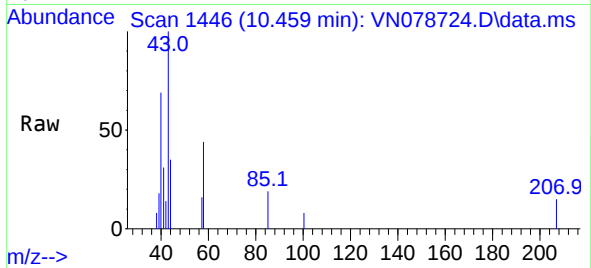
Tgt Ion: 117 Resp: 423670
Ion Ratio Lower Upper
117 100
82 54.4 43.9 65.9
119 31.8 26.2 39.4



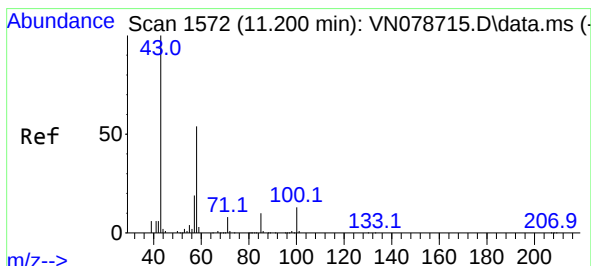
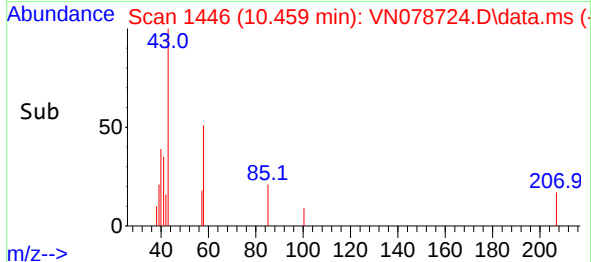
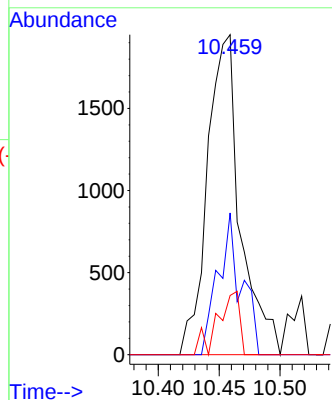


#58
4-Methyl-2-Pentanone
Concen: 0.576 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

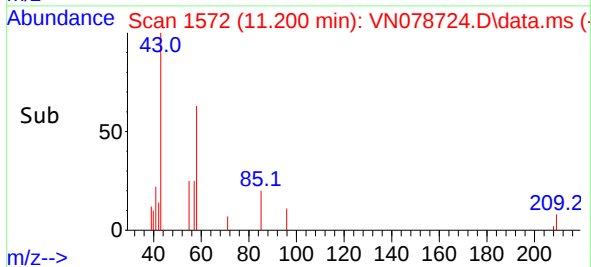
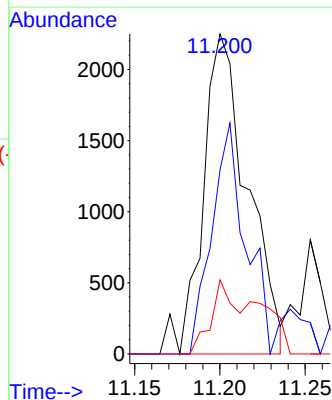
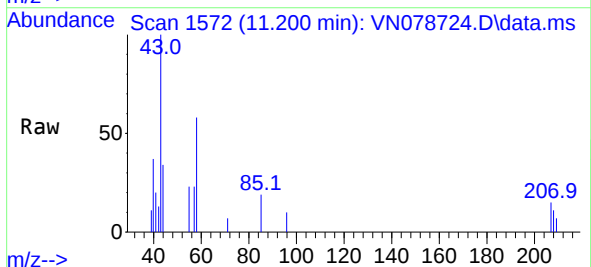


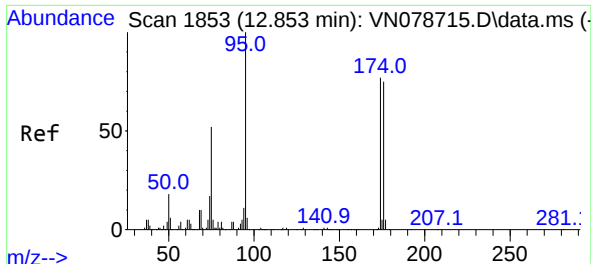
Tgt Ion: 43 Resp: 3655
Ion Ratio Lower Upper
43 100
58 23.2 32.6 48.8#
85 1.6 16.2 24.2#



#59
2-Hexanone
Concen: 0.834 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 43 Resp: 4006
Ion Ratio Lower Upper
43 100
58 49.4 45.9 68.9
57 13.1 15.8 23.6#

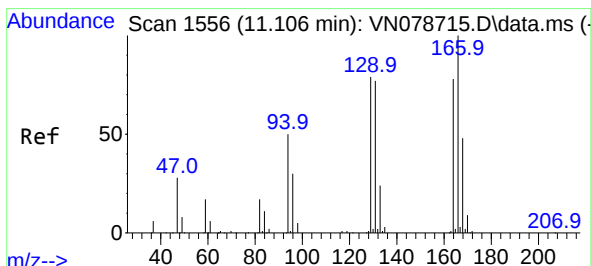
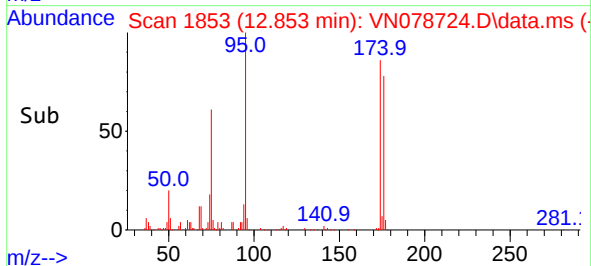
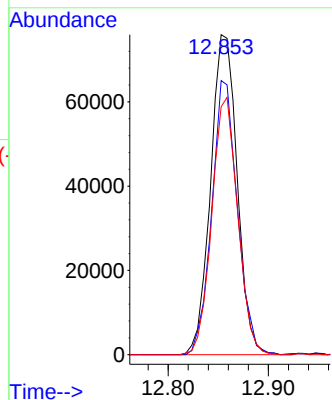
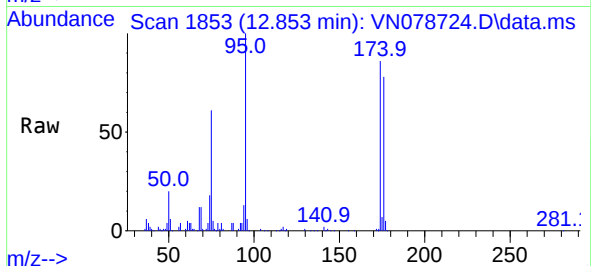




#60
4-Bromofluorobenzene
Concen: 22.021 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

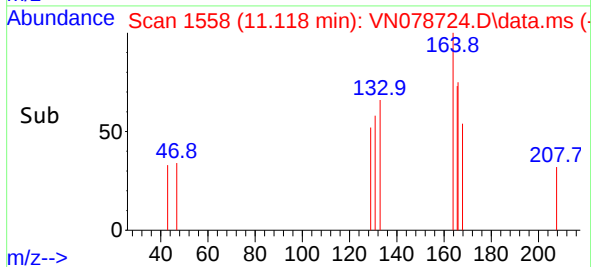
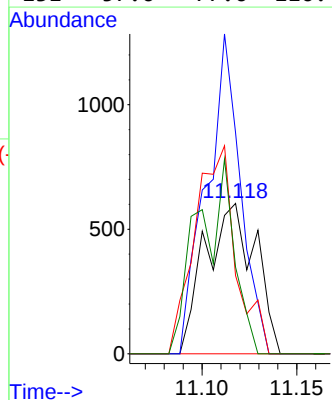
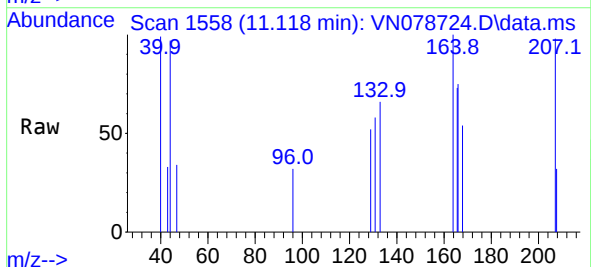
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

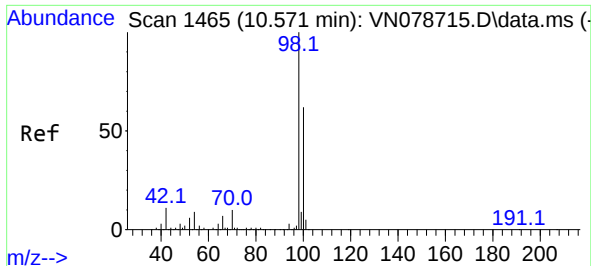
Tgt Ion: 95 Resp: 139819
Ion Ratio Lower Upper
95 100
174 82.6 61.7 92.5
176 78.3 58.1 87.1



#61
Tetrachloroethene
Concen: 0.200 ug/l
RT: 11.118 min Scan# 1558
Delta R.T. 0.012 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion:164 Resp: 1117
Ion Ratio Lower Upper
164 100
166 147.0 99.1 148.7
129 52.0 85.6 128.4#
131 57.6 77.6 116.4#

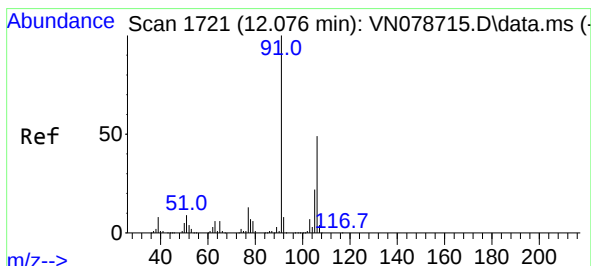
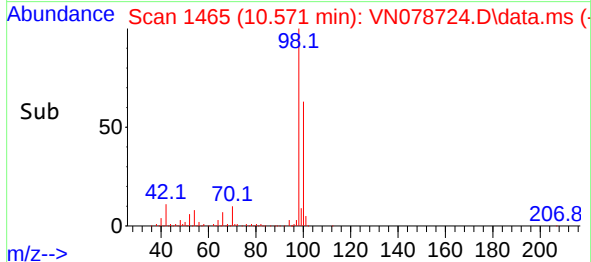
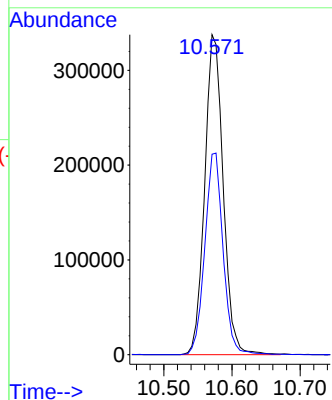
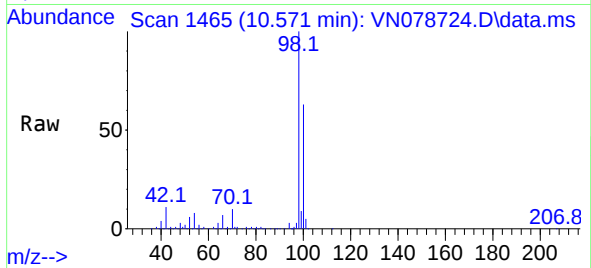




#63
Toluene-d8
Concen: 30.450 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

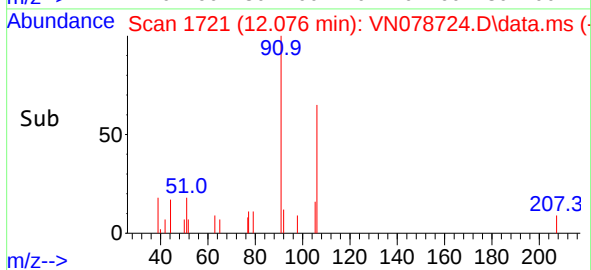
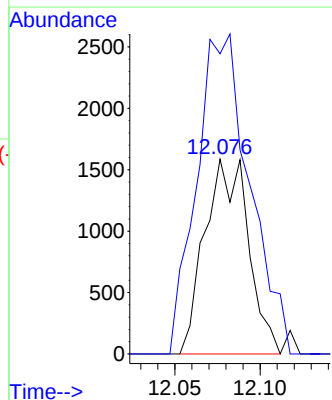
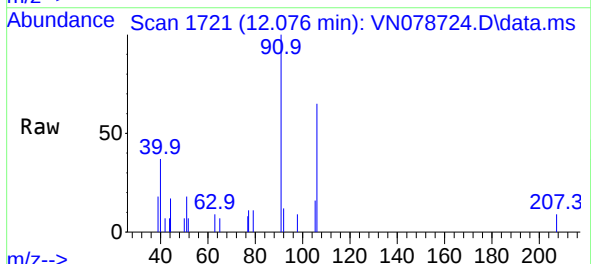
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

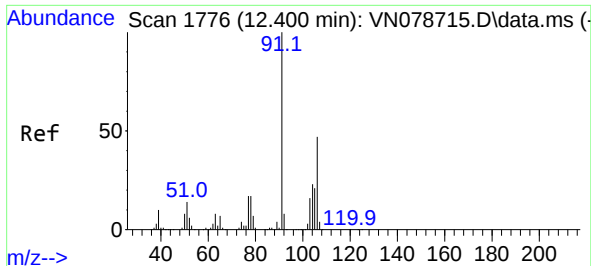
Tgt Ion: 98 Resp: 637285
Ion Ratio Lower Upper
98 100
100 62.2 49.7 74.5



#67
m/p-Xylenes
Concen: 0.286 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 106 Resp: 2810
Ion Ratio Lower Upper
106 100
91 200.7 162.5 243.7

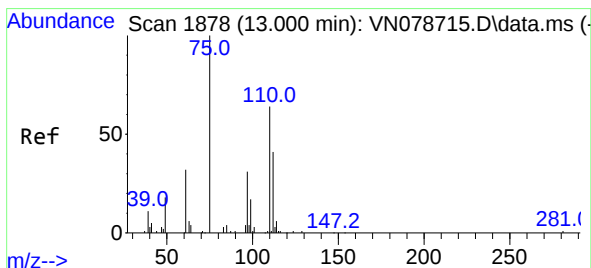
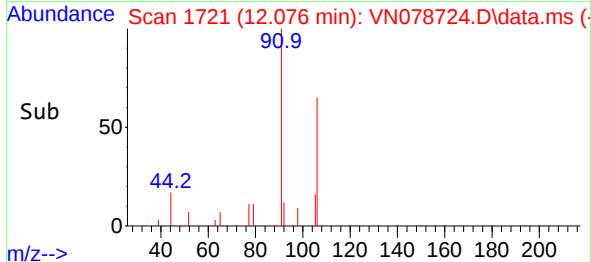
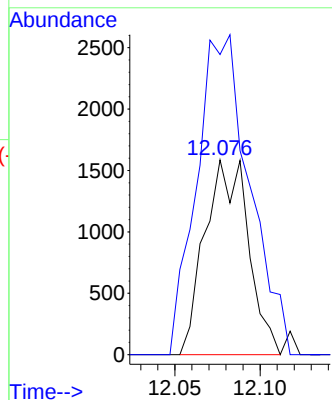
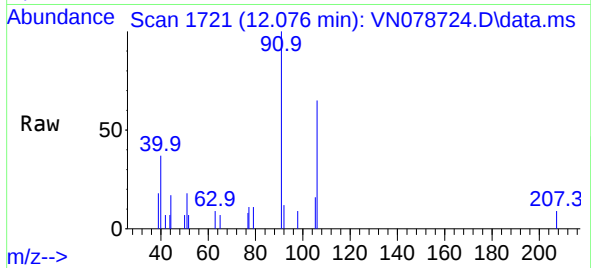




#68
o-Xylene
Concen: 0.281 ug/l
RT: 12.076 min Scan# 11
Delta R.T. -0.324 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

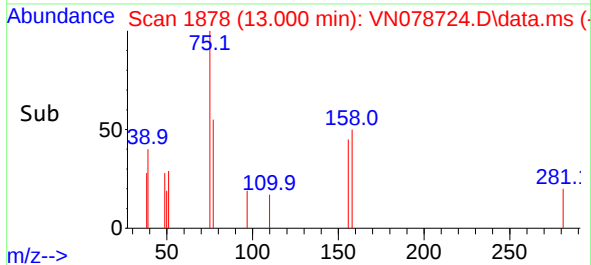
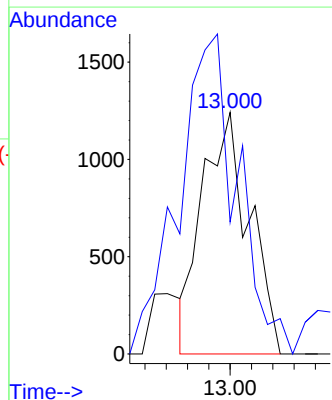
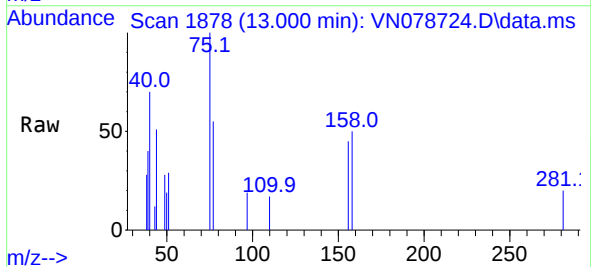
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

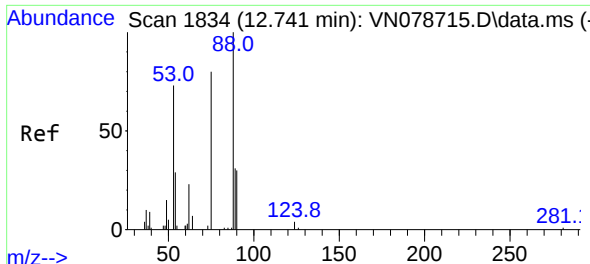
Tgt Ion:106 Resp: 2810
Ion Ratio Lower Upper
106 100
91 200.7 106.1 318.3



#72
1,2,3-Trichloropropane
Concen: 0.282 ug/l
RT: 13.000 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 75 Resp: 1899
Ion Ratio Lower Upper
75 100
77 166.1 0.0 387.4

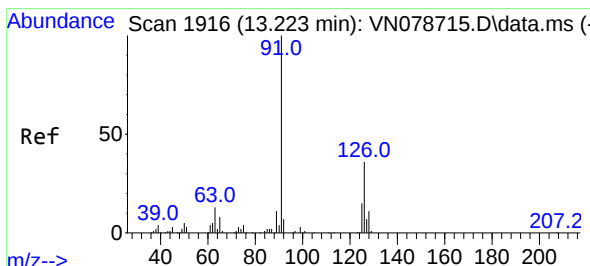
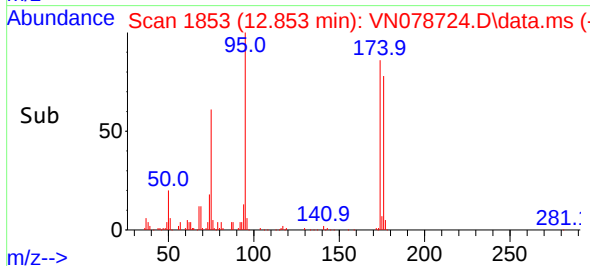
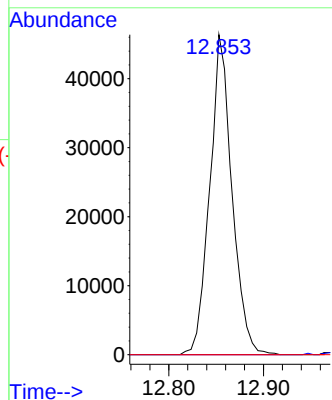
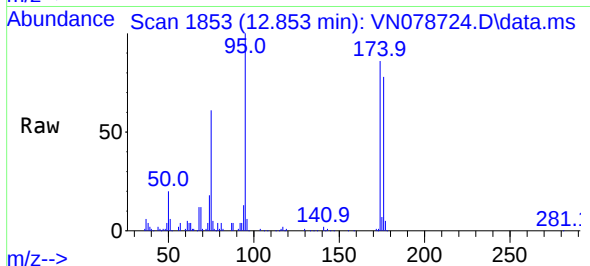




#77
t-1,4-Dichloro-2-butene
Concen: 32.189 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

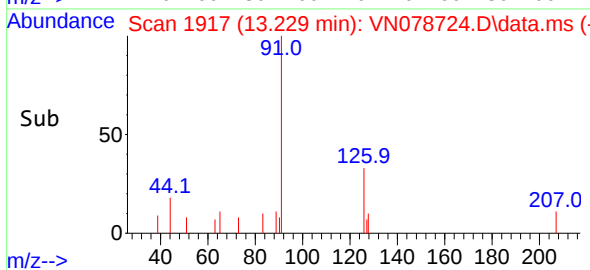
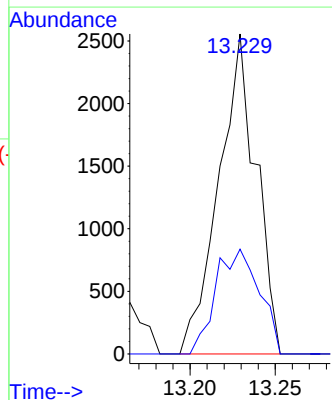
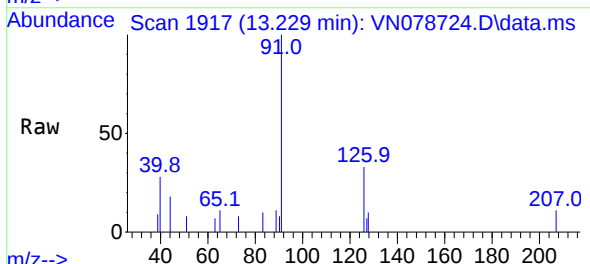
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

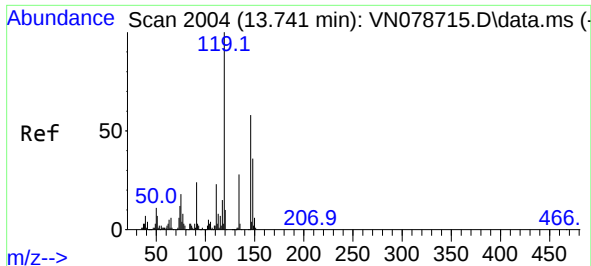
Tgt Ion: 75 Resp: 75707
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#



#78
4-Chlorotoluene
Concen: 0.213 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 91 Resp: 3890
Ion Ratio Lower Upper
91 100
126 38.4 0.0 68.8

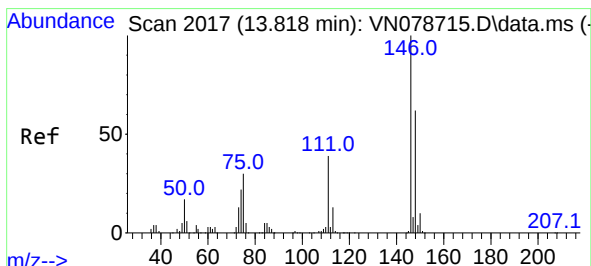
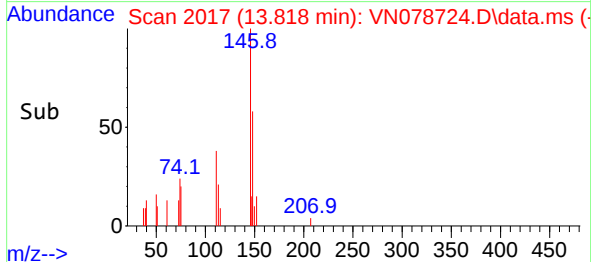
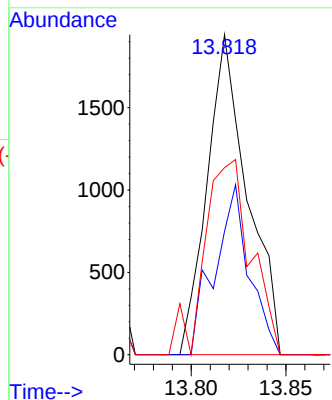
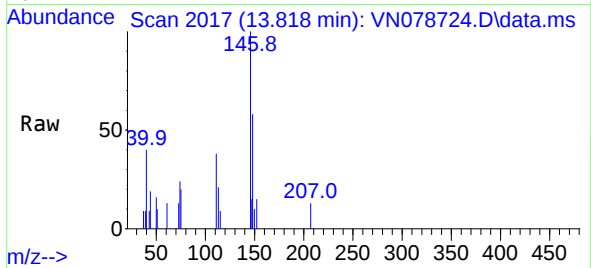




#83
1,3-Dichlorobenzene
Concen: 0.268 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. 0.077 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

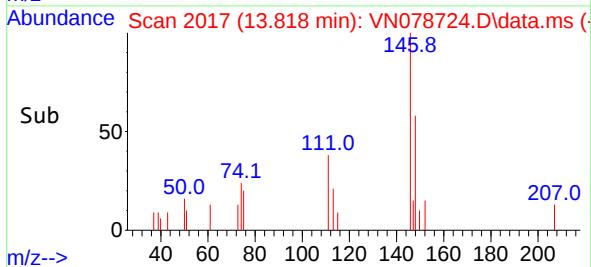
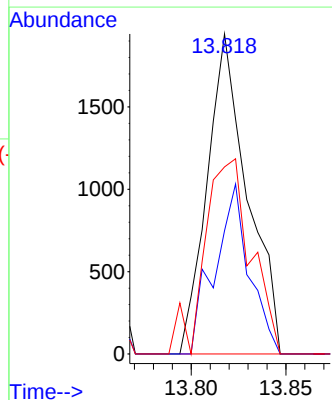
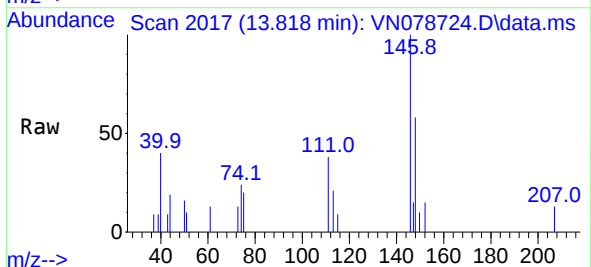
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

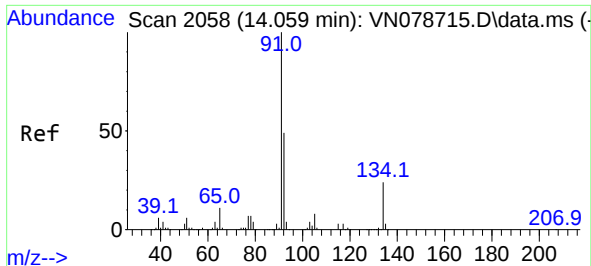
Tgt Ion:146 Resp: 2882
Ion Ratio Lower Upper
146 100
111 45.5 21.6 64.6
148 66.0 31.9 95.5



#84
1,4-Dichlorobenzene
Concen: 0.287 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion:146 Resp: 2882
Ion Ratio Lower Upper
146 100
111 45.5 19.4 58.2
148 66.0 31.4 94.3

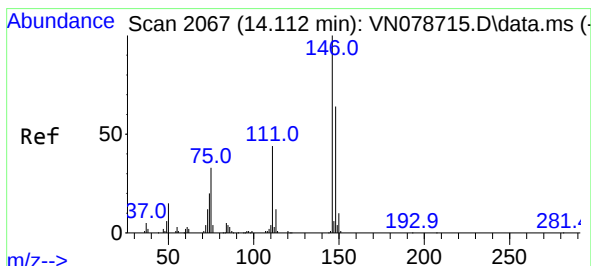
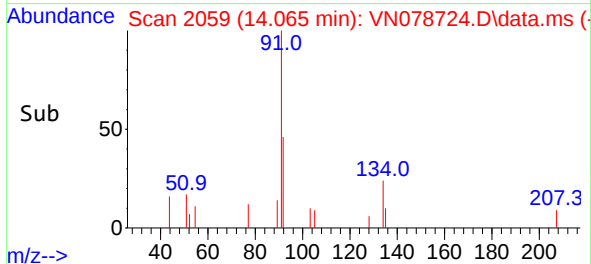
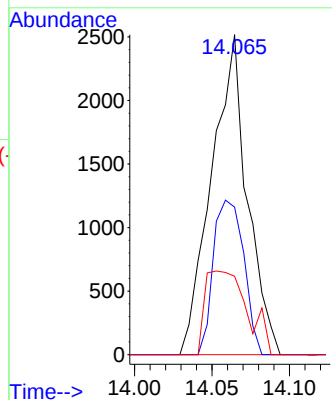
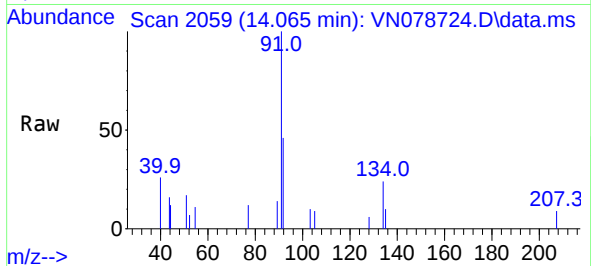




#85
n-Butylbenzene
Concen: 0.291 ug/l
RT: 14.065 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

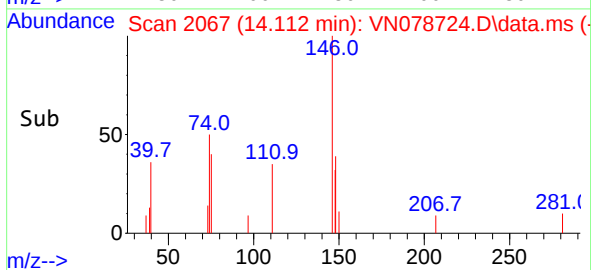
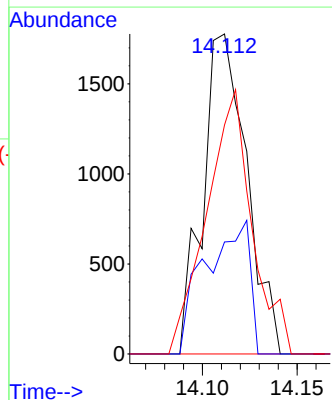
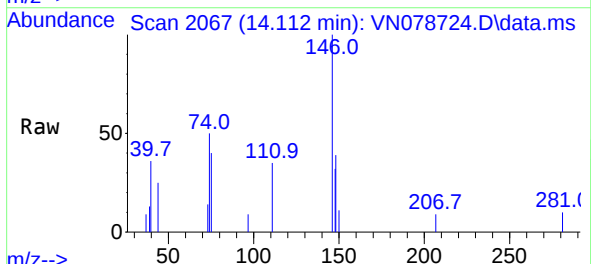
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

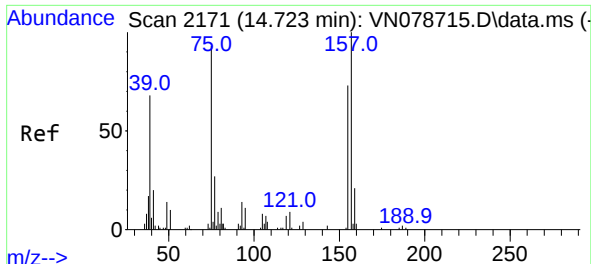
Tgt Ion: 91	Resp: 4032
Ion Ratio	Lower Upper
91	100
92	41.1 0.0 99.6
134	27.6 0.0 50.0



#87
1,2-Dichlorobenzene
Concen: 0.285 ug/l
RT: 14.112 min Scan# 2067
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion: 146	Resp: 2862
Ion Ratio	Lower Upper
146	100
111	24.6 22.4 67.3
148	85.3 33.4 100.1

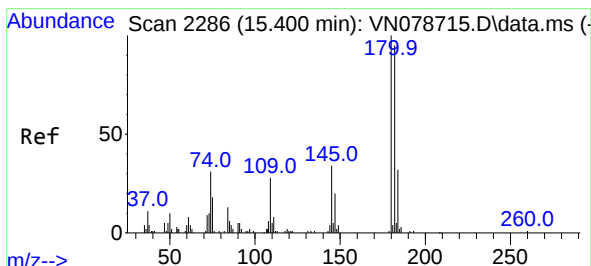
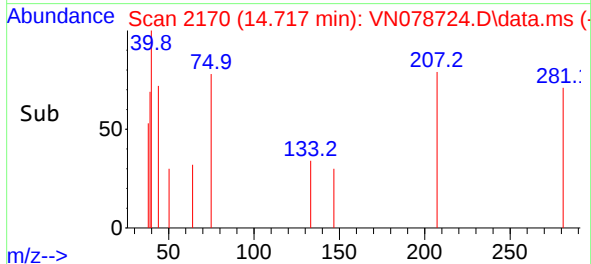
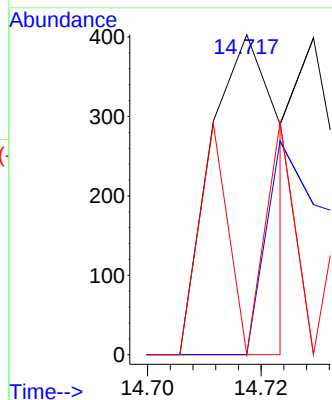
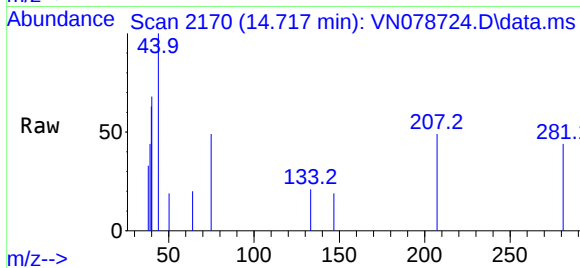




#88
1,2-Dibromo-3-Chloropropane
Concen: 0.255 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

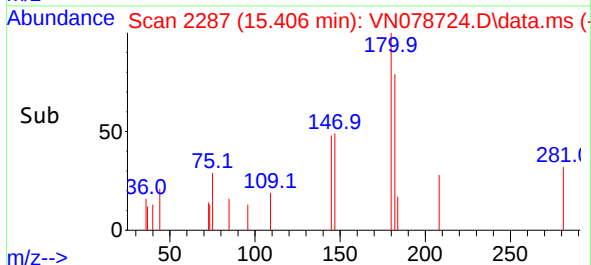
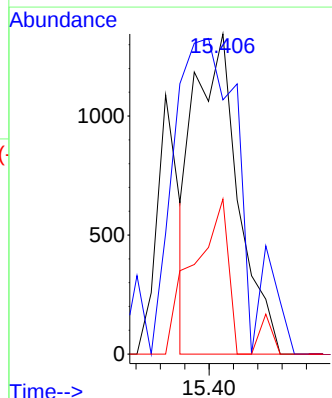
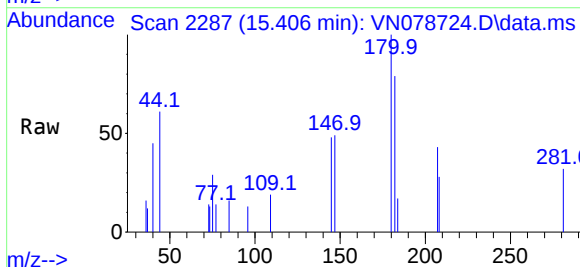
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

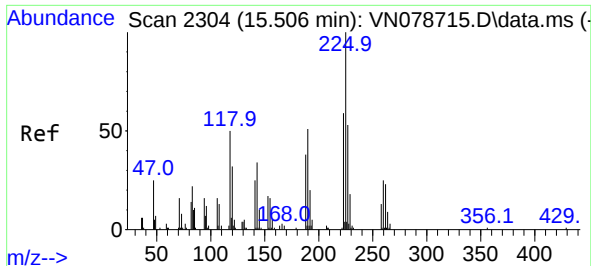
Tgt Ion: 75 Resp: 348
Ion Ratio Lower Upper
75 100
155 64.9 68.2 102.2#
157 29.6 84.7 127.1#



#89
1,2,4-Trichlorobenzene
Concen: 0.591 ug/l
RT: 15.406 min Scan# 2287
Delta R.T. 0.006 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion:180 Resp: 1694
Ion Ratio Lower Upper
180 100
182 135.0 73.7 110.5#
145 38.0 25.0 37.6#

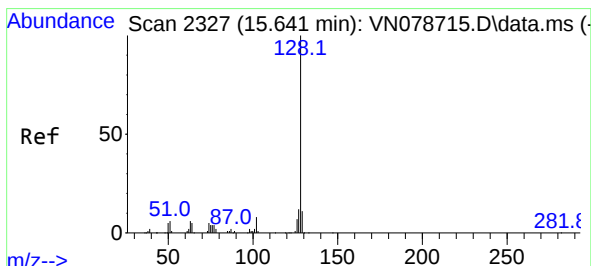
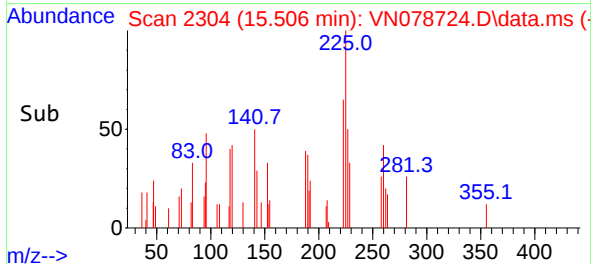
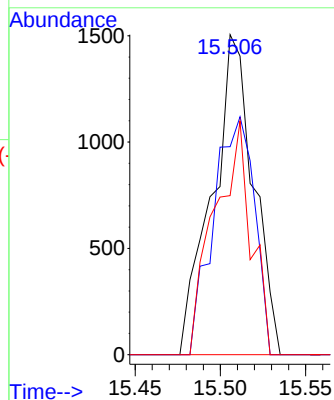
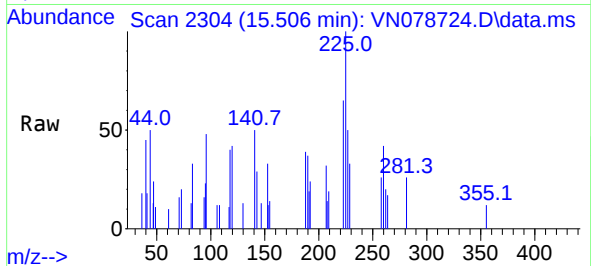




#90
Hexachlorobutadiene
Concen: 1.160 ug/l
RT: 15.506 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

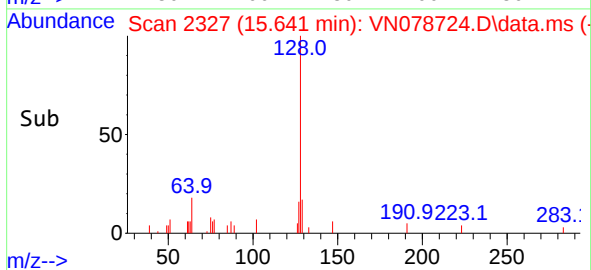
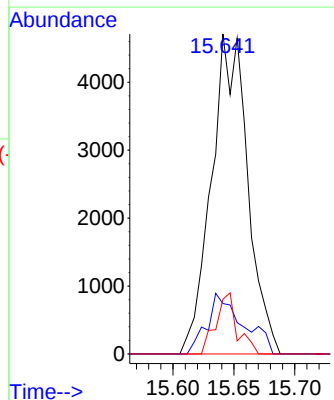
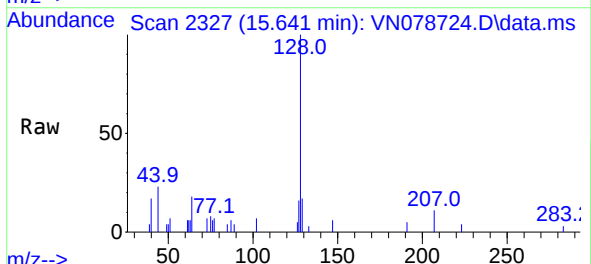
Instrument :
MSVOA_N
ClientSampleId :
VN0801WBL01

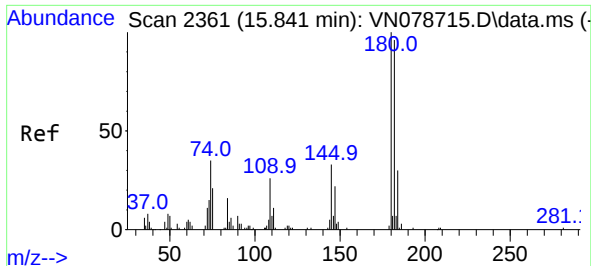
Tgt Ion:	225	Resp:	2534
Ion	Ratio	Lower	Upper
225	100		
223	74.1	0.0	130.0
227	64.5	0.0	124.0



#91
Naphthalene
Concen: 1.124 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN078724.D
Acq: 01 Aug 2023 18:37

Tgt Ion:	128	Resp:	9759
Ion	Ratio	Lower	Upper
128	100		
127	16.1	10.2	15.2#
129	9.4	9.0	13.4





#92

1,2,3-Trichlorobenzene

Concen: 1.118 ug/l

RT: 15.841 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078724.D

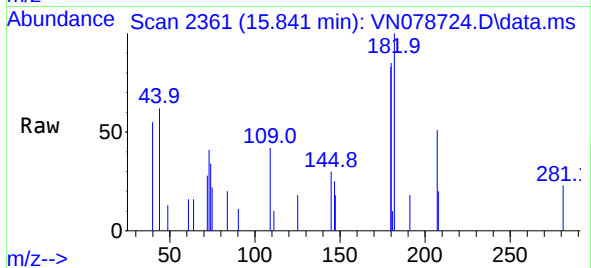
Acq: 01 Aug 2023 18:37

Instrument :

MSVOA_N

ClientSampleId :

VN0801WBL01



Tgt Ion:180 Resp: 3646

Ion Ratio Lower Upper

180 100

182 114.3 0.0 196.4

145 37.4 0.0 71.0

