

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091123\
 Data File : VN079213.D
 Acq On : 11 Sep 2023 12:40
 Operator : JC\MD
 Sample : 04376-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 02:46:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

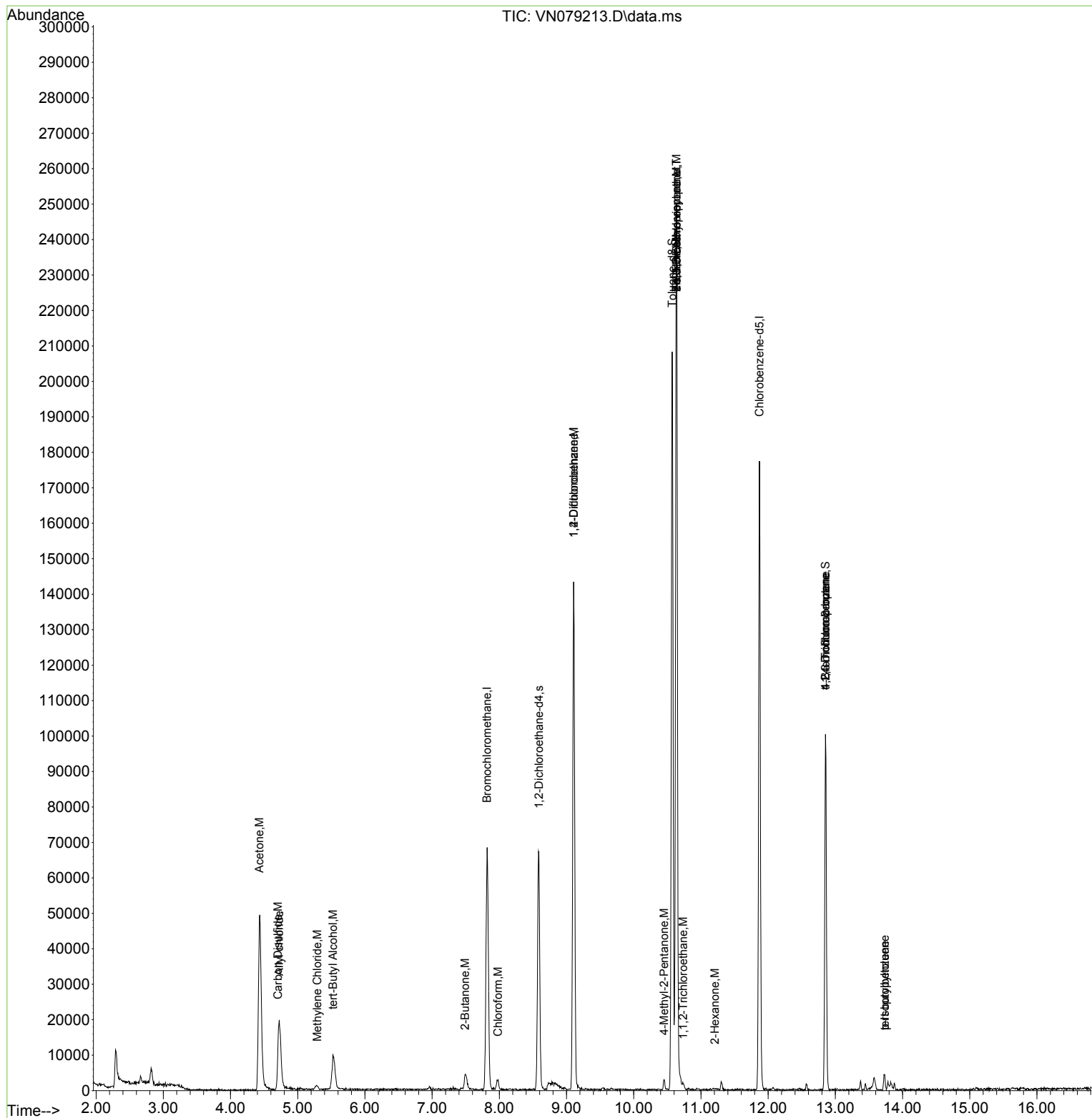
Internal Standards						
1) Bromochloromethane	7.818	128	24608	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	124149	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	106577	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	56400	30.506	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.700%
60) 4-Bromofluorobenzene	12.853	95	35822	22.811	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.033%
63) Toluene-d8	10.571	98	147600	29.634	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.767%
Target Compounds						
					Qvalue	
15) Acetone	4.430	58	30425	197.088	ug/l	95
16) Carbon Disulfide	4.706	76	798	0.312	ug/l #	76
17) Allyl chloride	4.724	41	3423	2.461	ug/l	85
18) Methylene Chloride	5.289	84	307	0.264	ug/l #	32
23) tert-Butyl Alcohol	5.524	59	16824	73.902	ug/l #	100
25) Chloroform	7.977	83	2946	1.004	ug/l	87
30) 2-Butanone	7.489	43	8338	8.328	ug/l #	55
36) 1,2-Dichloroethane	9.106	62	4347	2.084	ug/l #	73
48) t-1,3-Dichloropropene	10.635	75	1525	0.657	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	1525	0.630	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	1093	0.724	ug/l #	15
55) 2-Chloroethyl vinyl ether	10.635	63	12582	15.192	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	2423	1.239	ug/l #	82
59) 2-Hexanone	11.206	43	321	0.234	ug/l #	31
62) Toluene	10.635	91	201343	32.446	ug/l	99
72) 1,2,3-Trichloropropane	12.853	75	18673	10.294	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.853	75	18673	29.238	ug/l #	14
79) tert-butylbenzene	13.735	119	2587	0.661	ug/l	61
82) p-Isopropyltoluene	13.735	119	2587	0.612	ug/l	95

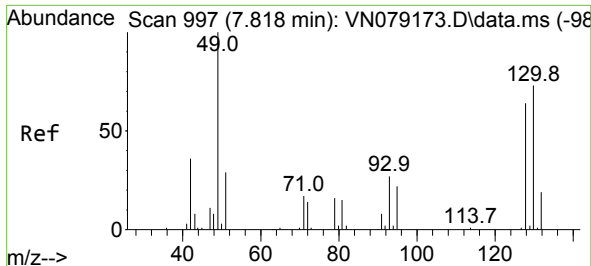
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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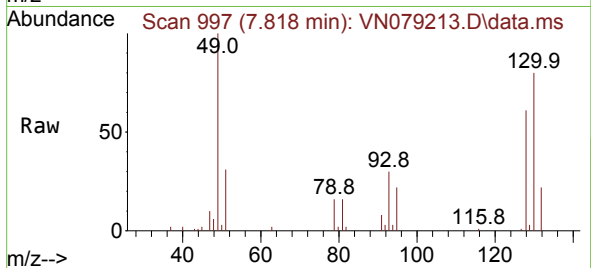
Quant Time: Sep 12 02:46:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
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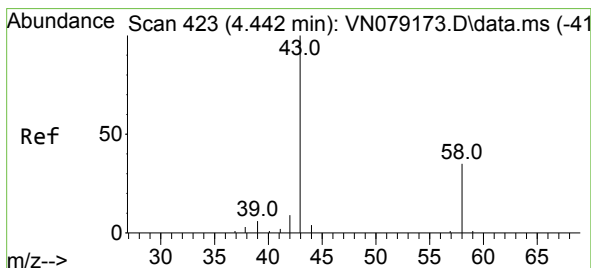
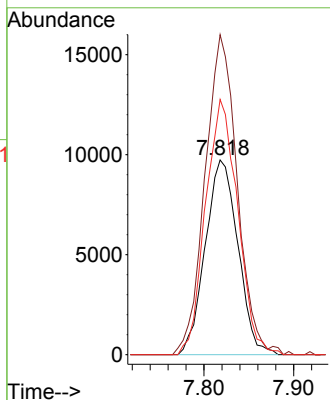
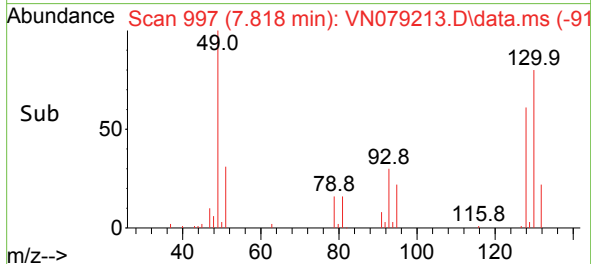


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

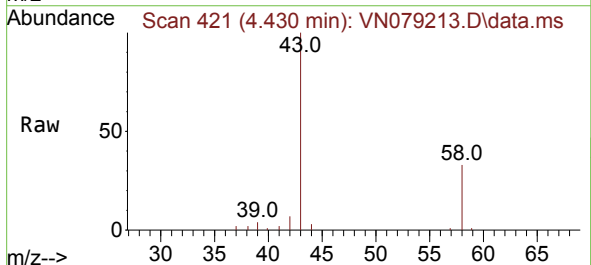
Instrument :
MSVOA_N
ClientSampleId :



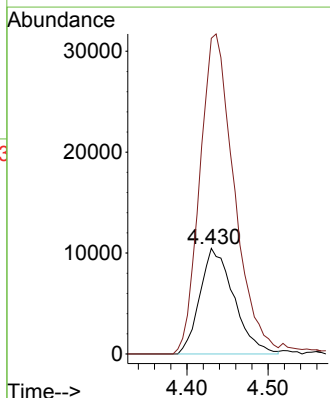
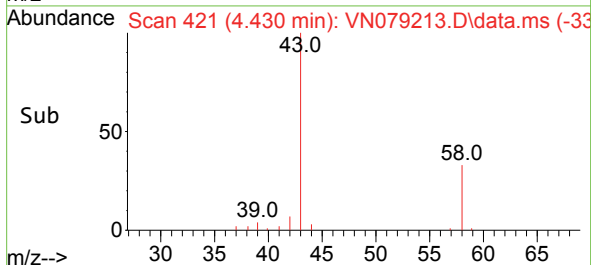
Tgt Ion:128 Resp: 24608
Ion Ratio Lower Upper
128 100
49 160.7 0.0 414.3
130 129.3 0.0 311.0

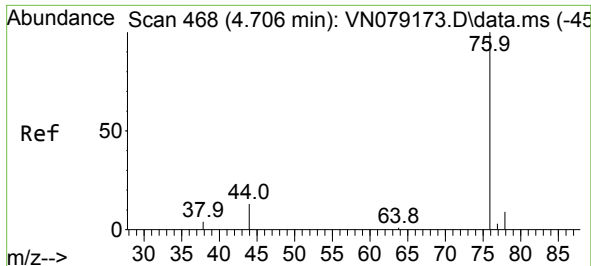


#15
Acetone
Concen: 197.088 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.012 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40



Tgt Ion: 58 Resp: 30425
Ion Ratio Lower Upper
58 100
43 294.2 228.3 342.5

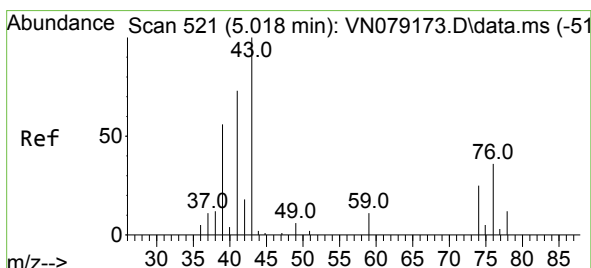
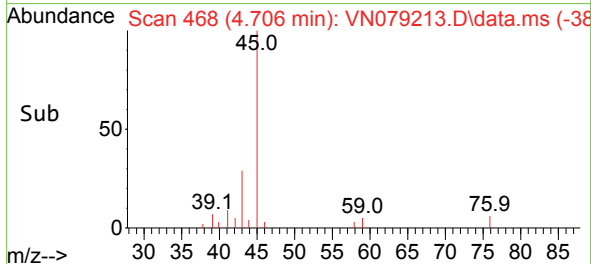
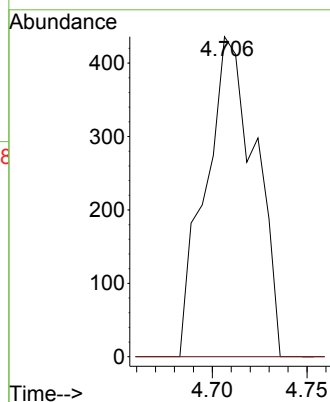
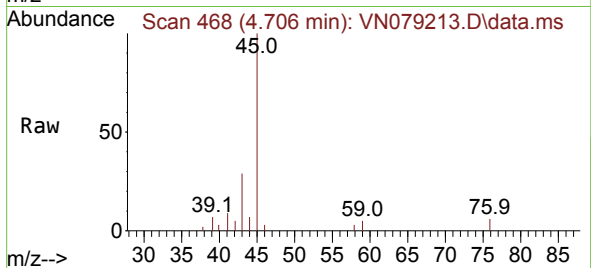




#16
Carbon Disulfide
Concen: 0.312 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.000 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

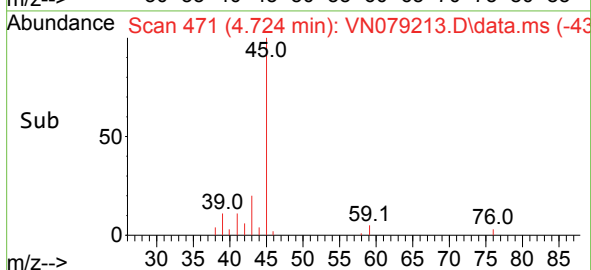
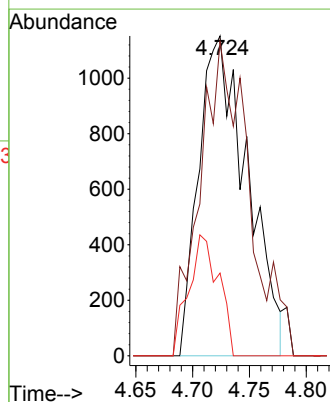
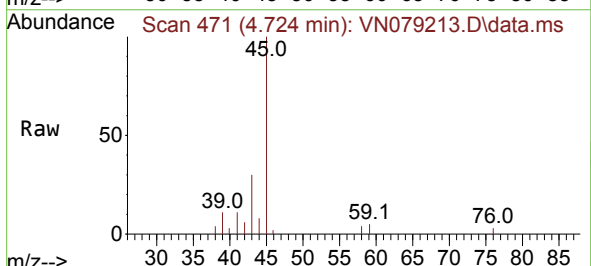
Instrument :
MSVOA_N
ClientSampleId :

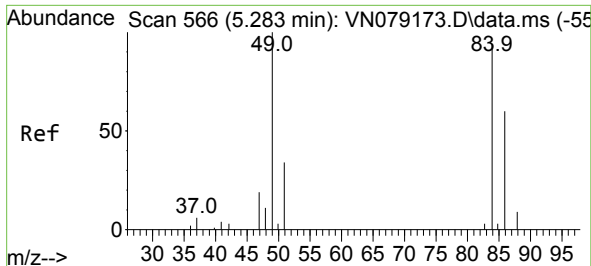
Tgt Ion: 76 Resp: 798
Ion Ratio Lower Upper
76 100
78 0.0 6.9 10.3#



#17
Allyl chloride
Concen: 2.461 ug/l
RT: 4.724 min Scan# 471
Delta R.T. -0.294 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

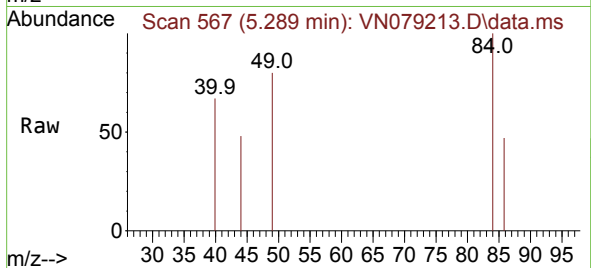
Tgt Ion: 41 Resp: 3423
Ion Ratio Lower Upper
41 100
39 80.7 38.3 114.8
76 25.9 23.7 71.1



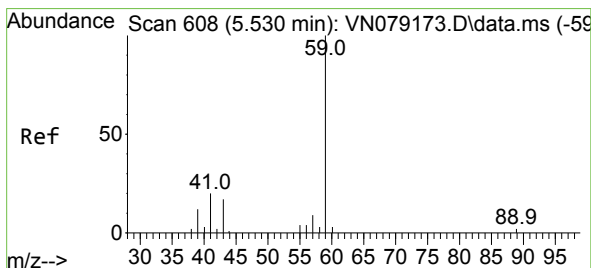
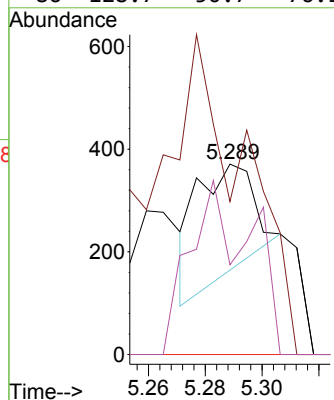


#18
Methylene Chloride
Concen: 0.264 ug/l
RT: 5.289 min Scan# 507
Delta R.T. 0.006 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Instrument :
MSVOA_N
ClientSampleId :

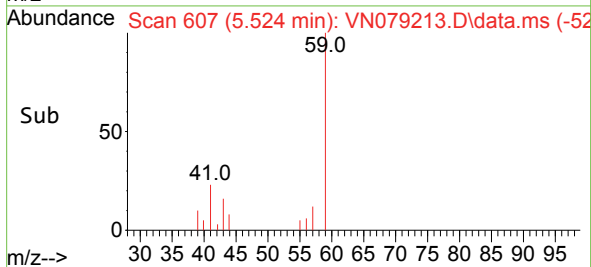
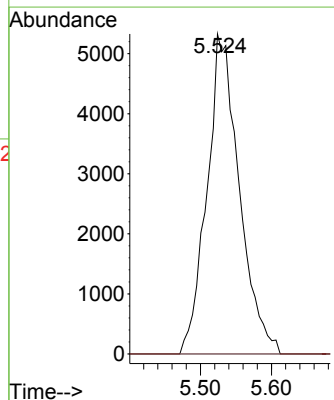
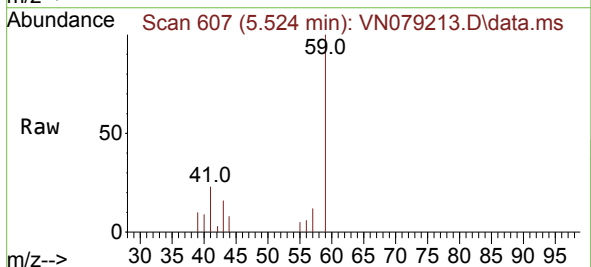


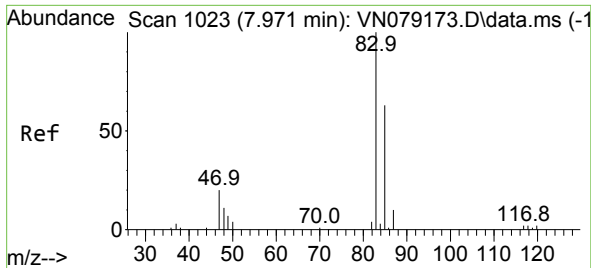
Tgt Ion:	84	Resp:	307
Ion	Ratio	Lower	Upper
84	100		
49	44.9	86.9	130.3#
51	0.0	28.6	43.0#
86	128.7	50.7	76.1#



#23
tert-Butyl Alcohol
Concen: 73.902 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Tgt Ion:	59	Resp:	16824
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

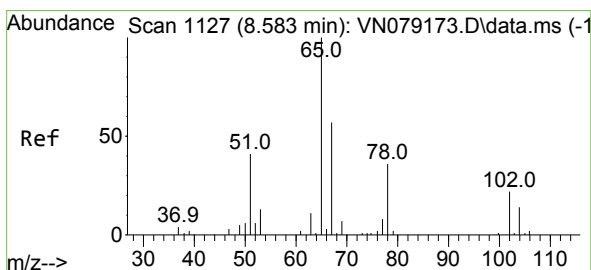
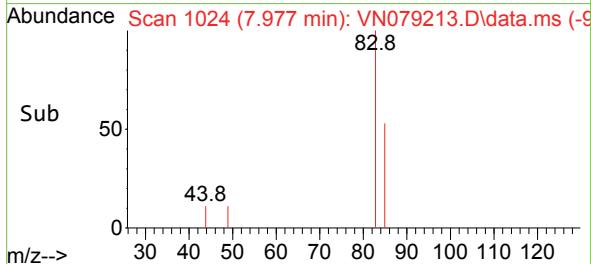
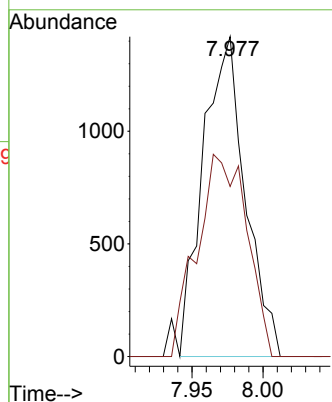
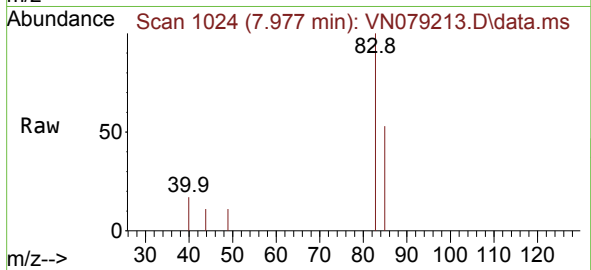




#25
Chloroform
Concen: 1.004 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.006 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

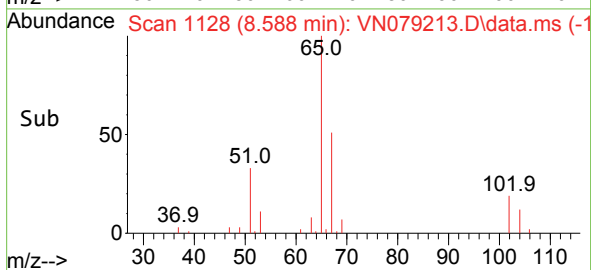
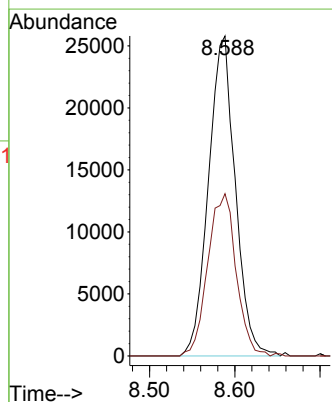
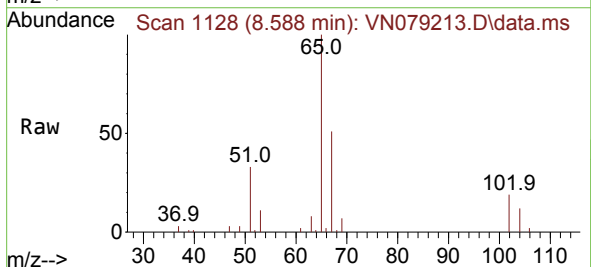
Instrument :
MSVOA_N
ClientSampleId :

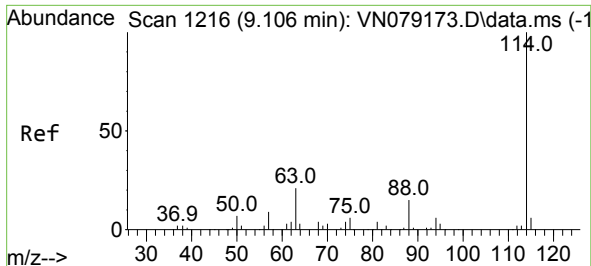
Tgt Ion: 83 Resp: 2946
Ion Ratio Lower Upper
83 100
85 53.2 50.6 76.0



#27
1,2-Dichloroethane-d4
Concen: 30.506 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Tgt Ion: 65 Resp: 56400
Ion Ratio Lower Upper
65 100
67 53.2 44.4 66.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN079213.D

Acq: 11 Sep 2023 12:40

Instrument :

MSVOA_N

ClientSampleId :

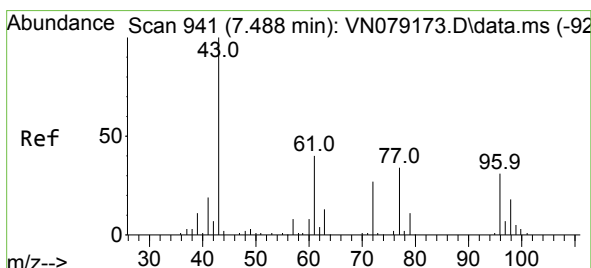
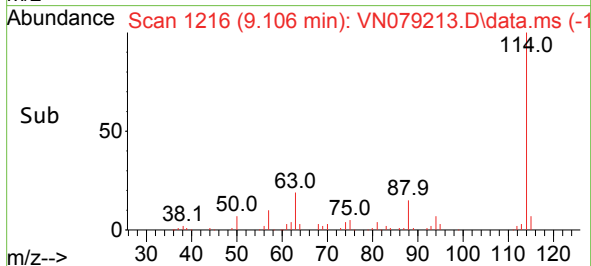
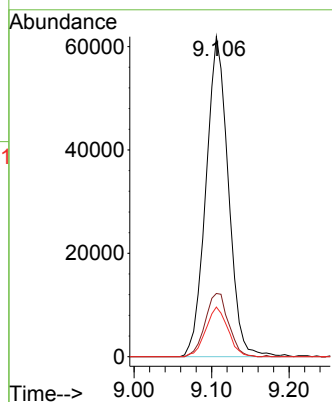
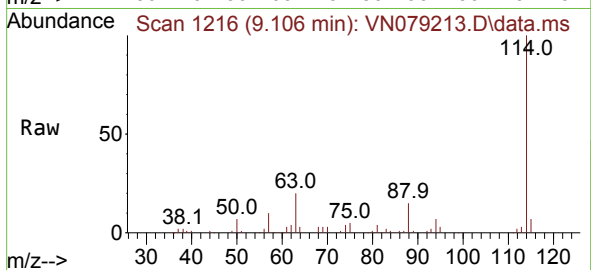
Tgt Ion:114 Resp: 124149

Ion Ratio Lower Upper

114 100

63 20.6 17.0 25.4

88 15.3 12.8 19.2



#30

2-Butanone

Concen: 8.328 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.001 min

Lab File: VN079213.D

Acq: 11 Sep 2023 12:40

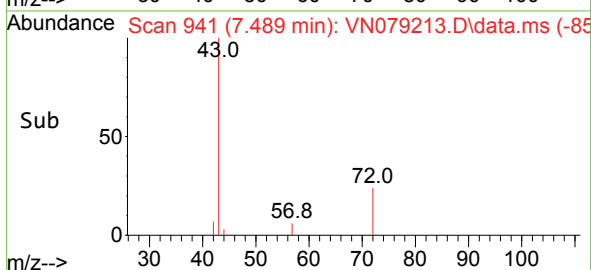
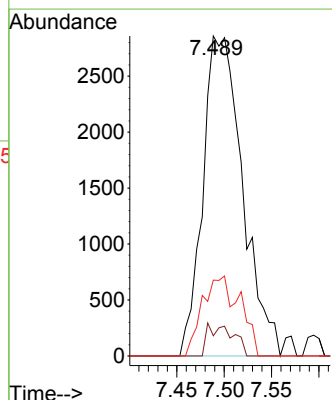
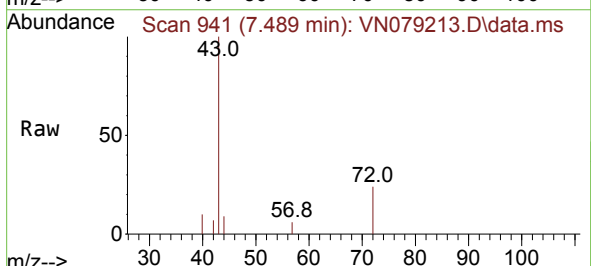
Tgt Ion: 43 Resp: 8338

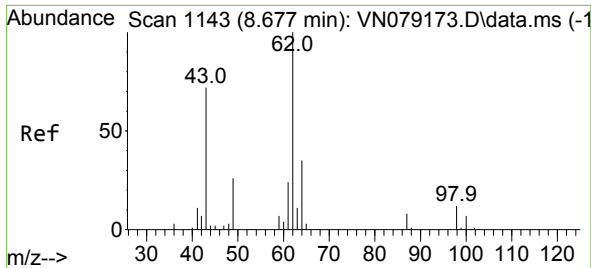
Ion Ratio Lower Upper

43 100

57 2.0 6.8 10.2#

72 0.0 22.4 33.6#

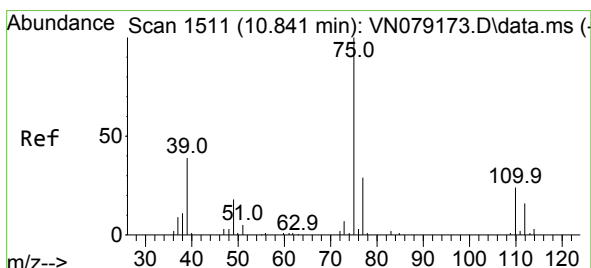
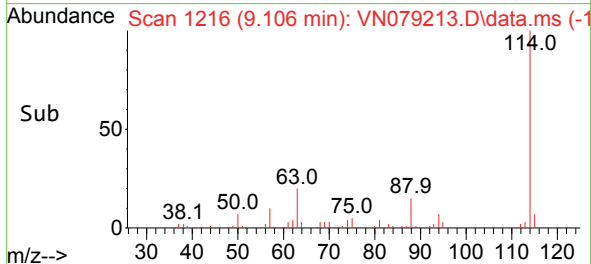
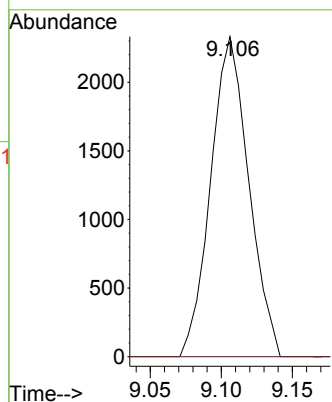
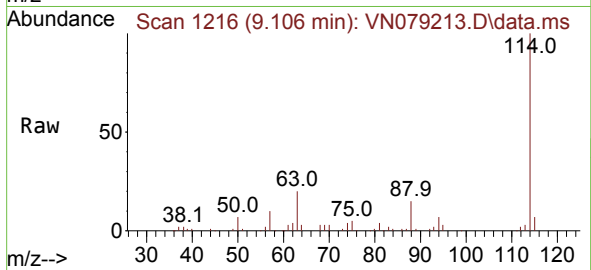




#36
1,2-Dichloroethane
Concen: 2.084 ug/l
RT: 9.106 min Scan# 1143
Delta R.T. 0.429 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

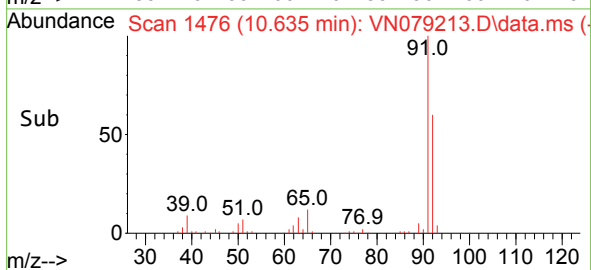
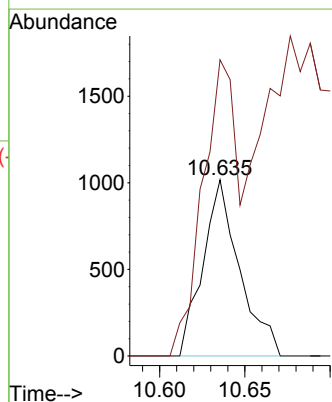
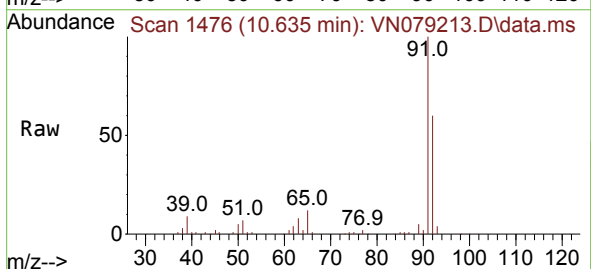
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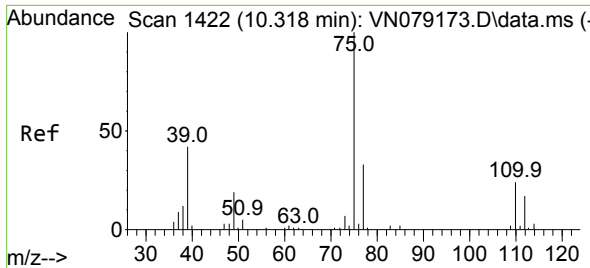
Tgt Ion: 62 Resp: 4347
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#



#48
t-1,3-Dichloropropene
Concen: 0.657 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

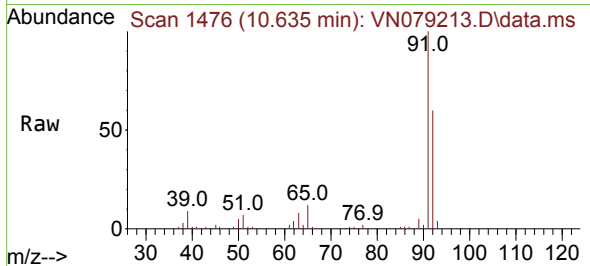
Tgt Ion: 75 Resp: 1525
Ion Ratio Lower Upper
75 100
77 149.0 22.9 34.3#



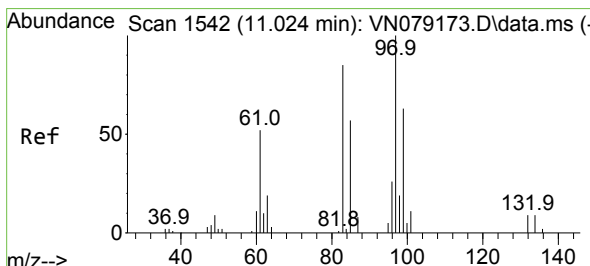
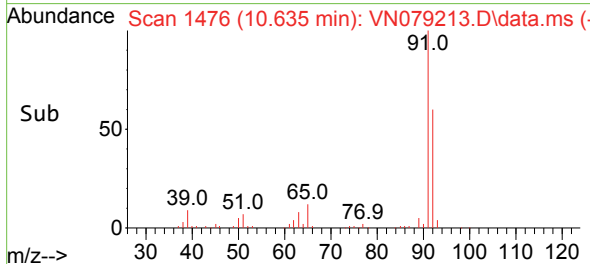
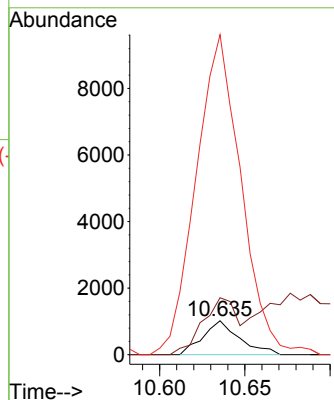


#49
 cis-1,3-Dichloropropene
 Concen: 0.630 ug/l
 RT: 10.635 min Scan# 1476
 Delta R.T. 0.317 min
 Lab File: VN079213.D
 Acq: 11 Sep 2023 12:40

Instrument :
 MSVOA_N
 ClientSampleId :

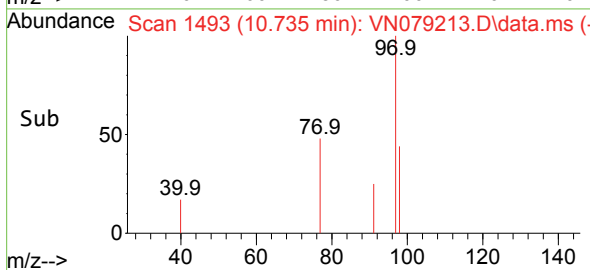
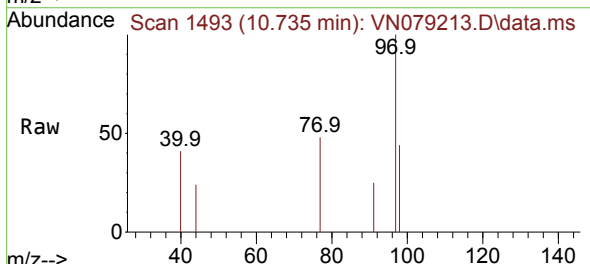
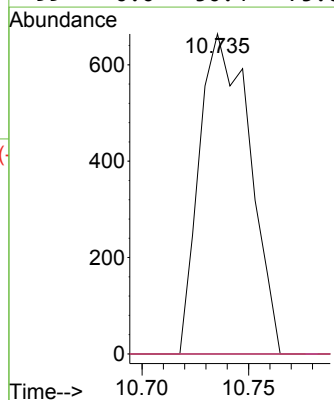


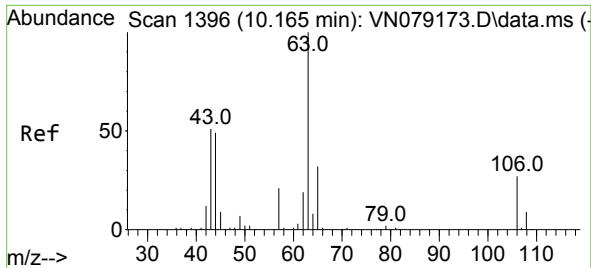
Tgt Ion: 75 Resp: 1525
 Ion Ratio Lower Upper
 75 100
 77 149.0 26.2 39.2#
 39 917.1 33.8 50.8#



#50
 1,1,2-Trichloroethane
 Concen: 0.724 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.289 min
 Lab File: VN079213.D
 Acq: 11 Sep 2023 12:40

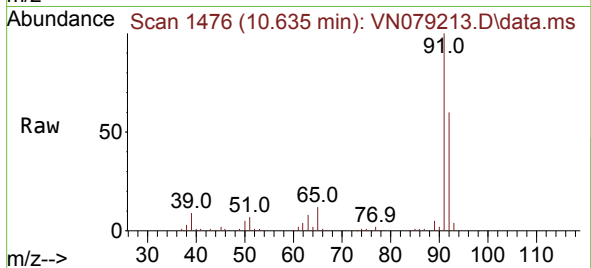
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 Ion Ratio Lower Upper
 97 100
 83 0.0 68.9 103.3#
 85 0.0 45.3 67.9#
 99 0.0 50.4 75.6#



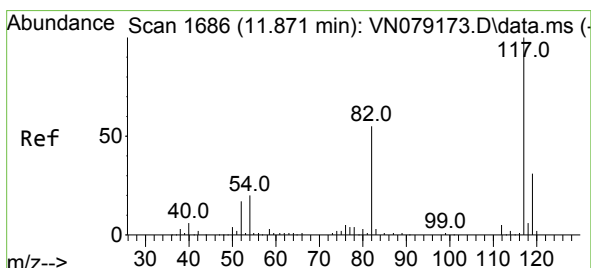
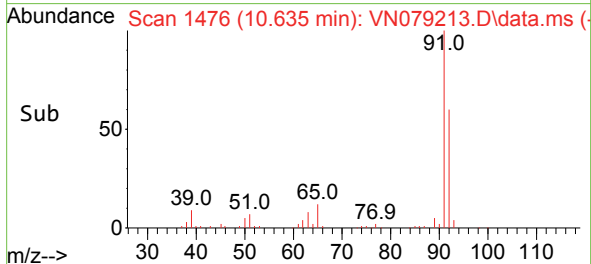
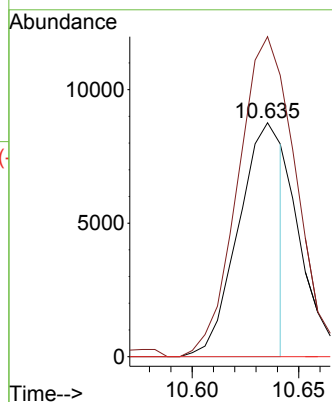


#55
2-Chloroethyl vinyl ether
Concen: 15.192 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.470 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Instrument :
MSVOA_N
ClientSampleId :

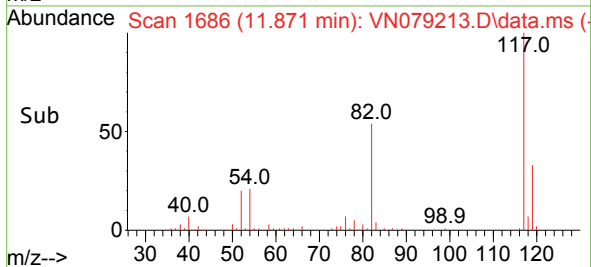
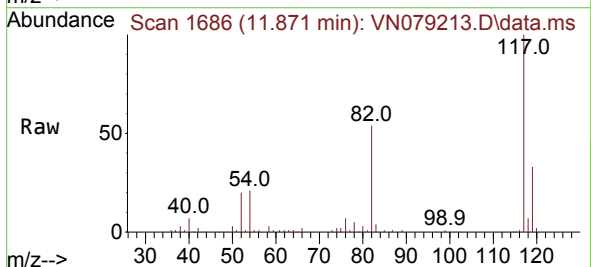
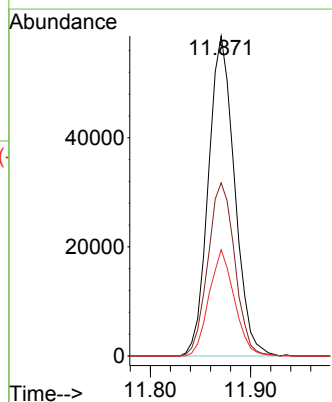


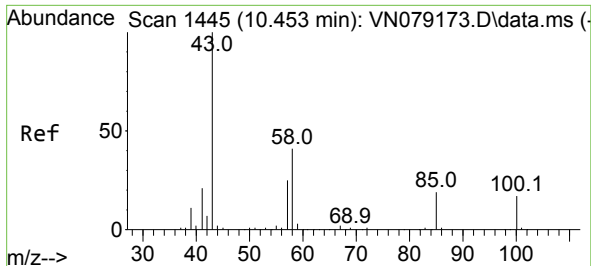
Tgt Ion: 63 Resp: 12582
Ion Ratio Lower Upper
63 100
65 137.4 25.7 38.5#
106 0.0 21.9 32.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Tgt Ion: 117 Resp: 106577
Ion Ratio Lower Upper
117 100
82 55.6 44.7 67.1
119 32.1 24.9 37.3

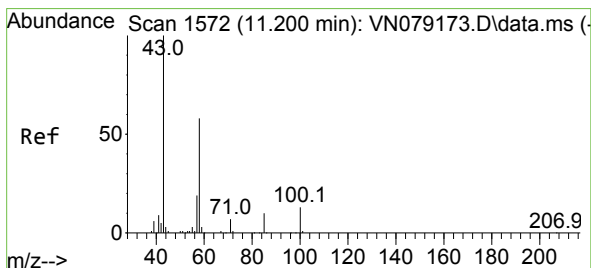
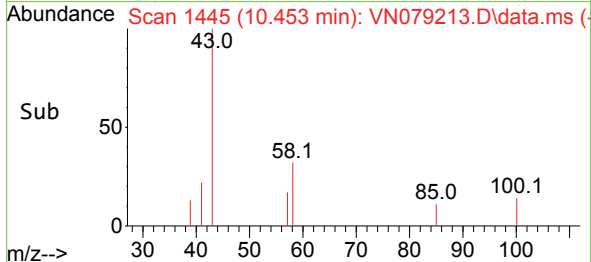
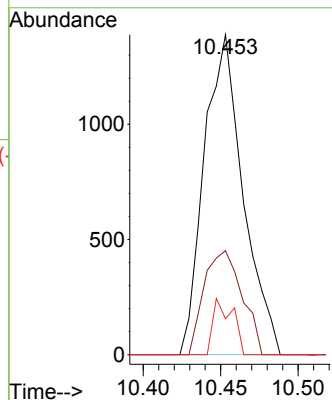
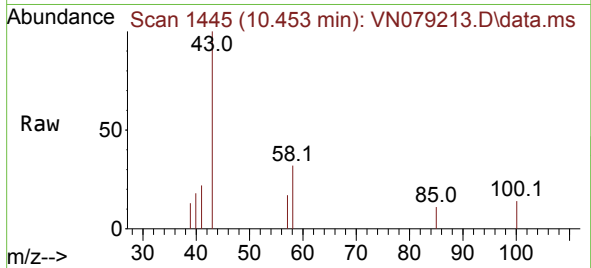




#58
4-Methyl-2-Pentanone
Concen: 1.239 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

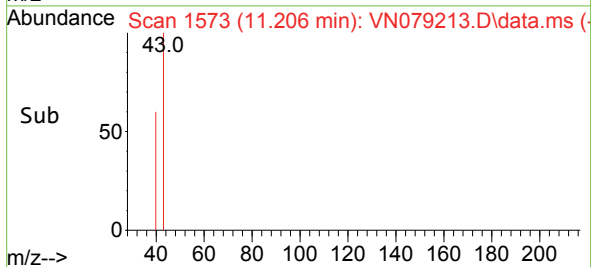
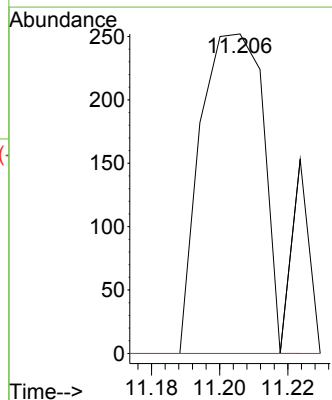
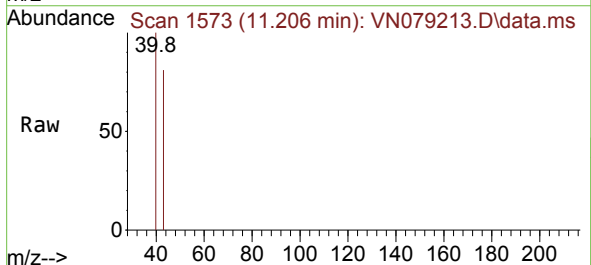
Instrument :
MSVOA_N
ClientSampleId :

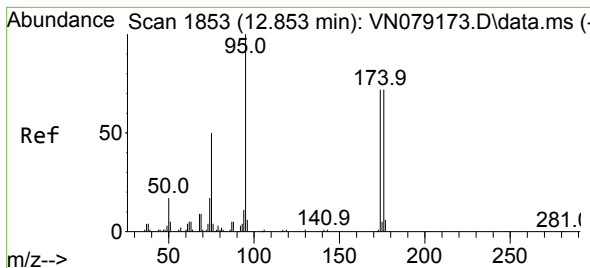
Tgt Ion: 43 Resp: 2423
Ion Ratio Lower Upper
43 100
58 31.7 33.6 50.4#
85 8.7 15.0 22.4#



#59
2-Hexanone
Concen: 0.234 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Tgt Ion: 43 Resp: 321
Ion Ratio Lower Upper
43 100
58 0.0 46.4 69.6#
57 0.0 15.3 22.9#

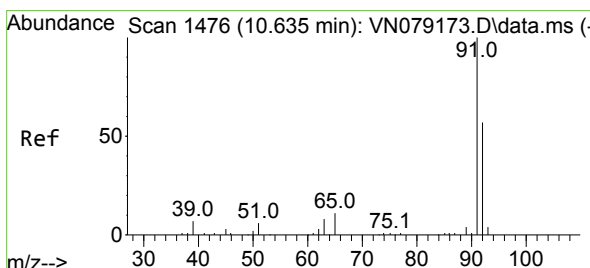
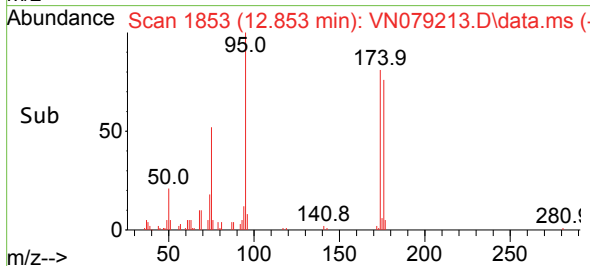
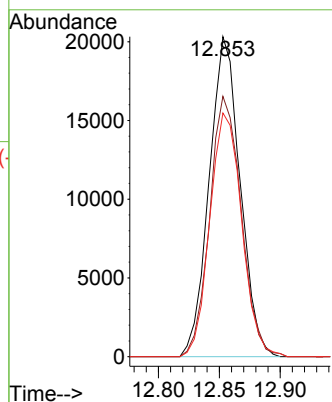
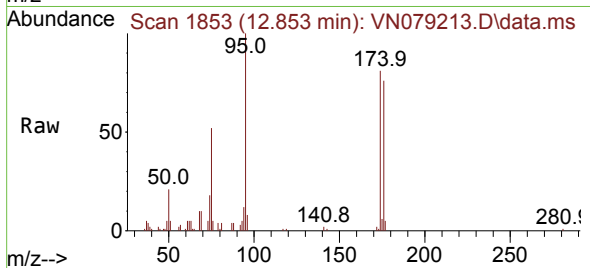




#60
4-Bromofluorobenzene
Concen: 22.811 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

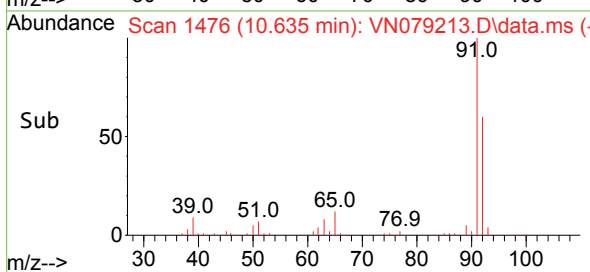
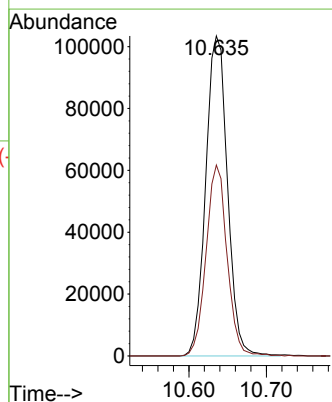
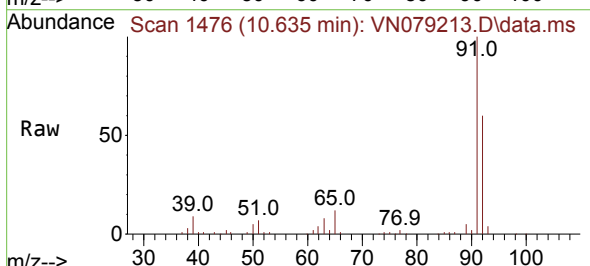
Instrument :
MSVOA_N
ClientSampleId :

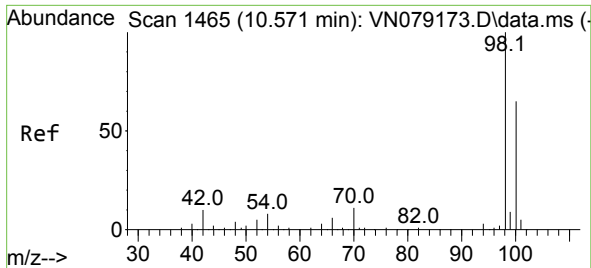
Tgt Ion: 95 Resp: 35822
Ion Ratio Lower Upper
95 100
174 82.9 59.5 89.3
176 78.5 59.1 88.7



#62
Toluene
Concen: 32.446 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Tgt Ion: 91 Resp: 201343
Ion Ratio Lower Upper
91 100
92 57.6 45.7 68.5

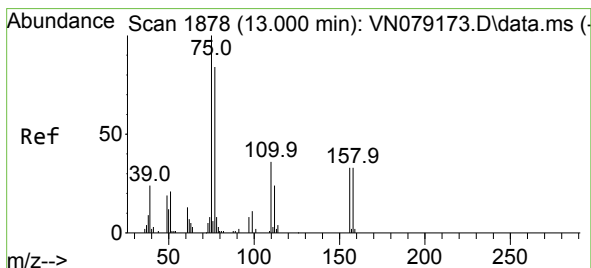
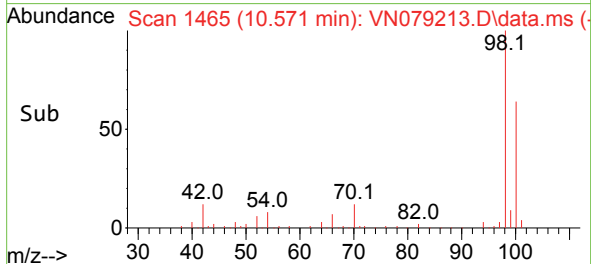
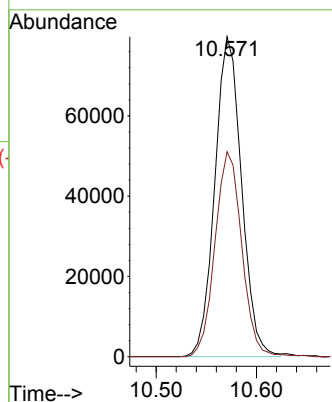
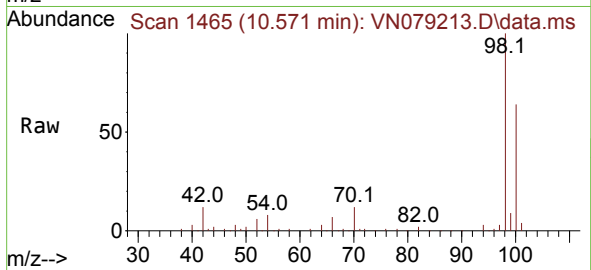




#63
Toluene-d8
Concen: 29.634 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

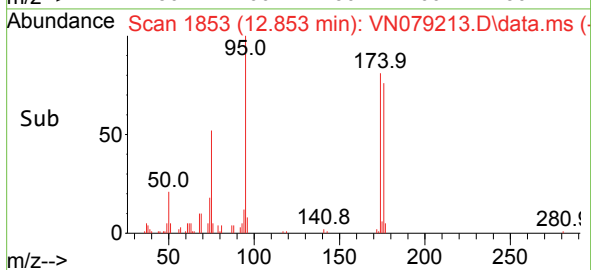
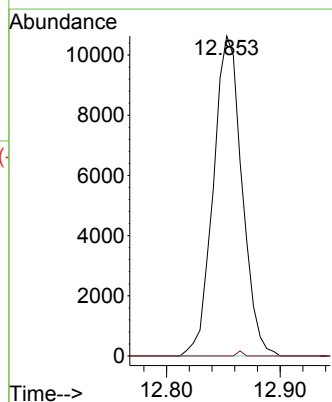
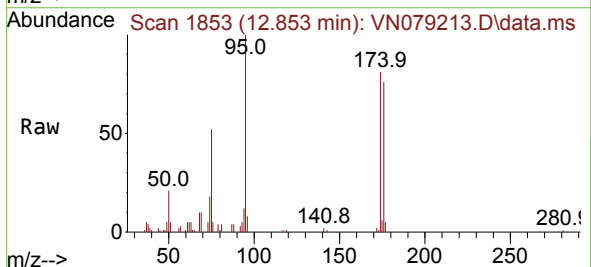
Instrument :
MSVOA_N
ClientSampleId :

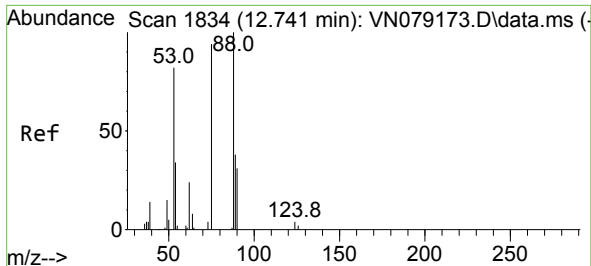
Tgt Ion: 98 Resp: 147600
Ion Ratio Lower Upper
98 100
100 64.1 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 10.294 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079213.D
Acq: 11 Sep 2023 12:40

Tgt Ion: 75 Resp: 18673
Ion Ratio Lower Upper
75 100
77 0.0 0.0 252.2





#77

t-1,4-Dichloro-2-butene

Concen: 29.238 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.112 min

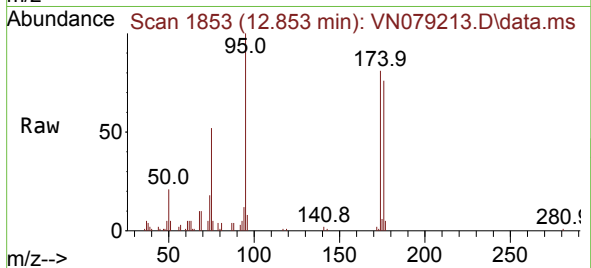
Lab File: VN079213.D

Acq: 11 Sep 2023 12:40

Instrument :

MSVOA_N

ClientSampleId :



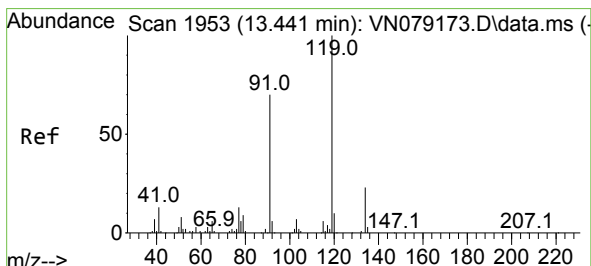
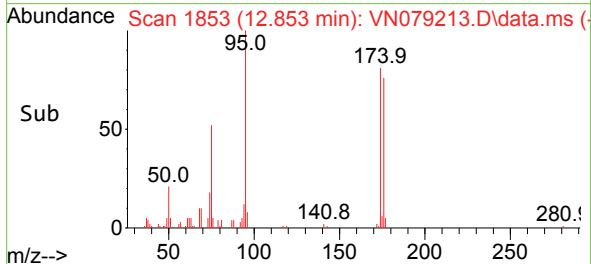
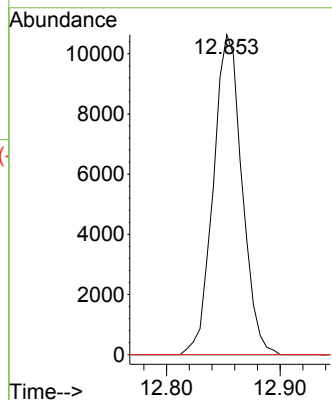
Tgt Ion: 75 Resp: 18673

Ion Ratio Lower Upper

75 100

53 0.0 44.1 132.4#

89 0.0 22.4 67.3#



#79

tert-butylbenzene

Concen: 0.661 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN079213.D

Acq: 11 Sep 2023 12:40

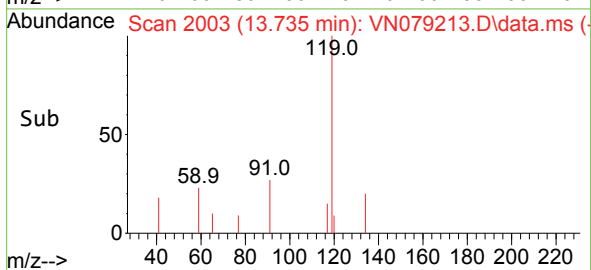
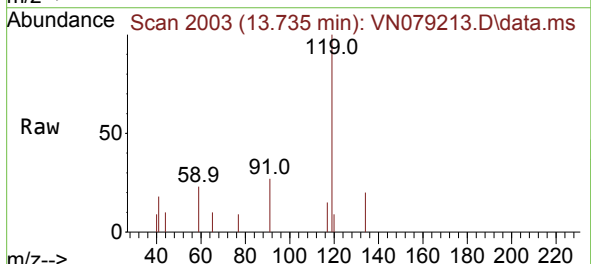
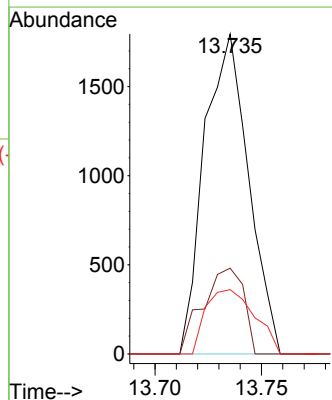
Tgt Ion: 119 Resp: 2587

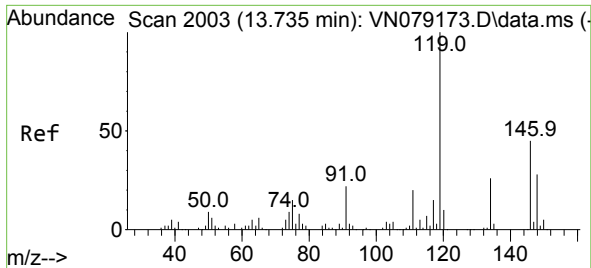
Ion Ratio Lower Upper

119 100

91 24.8 0.0 130.8

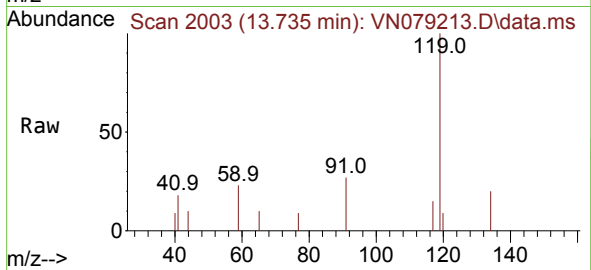
134 22.3 0.0 48.8





#82
 p-Isopropyltoluene
 Concen: 0.612 ug/l
 RT: 13.735 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN079213.D
 Acq: 11 Sep 2023 12:40

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	119	Resp:	2587
Ion	Ratio	Lower	Upper
119	100		
134	22.3	0.0	53.8
91	24.8	0.0	48.0

