

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100423\
 Data File : VN079410.D
 Acq On : 04 Oct 2023 18:00
 Operator : JC\MD
 Sample : 04712-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 05 02:24:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

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

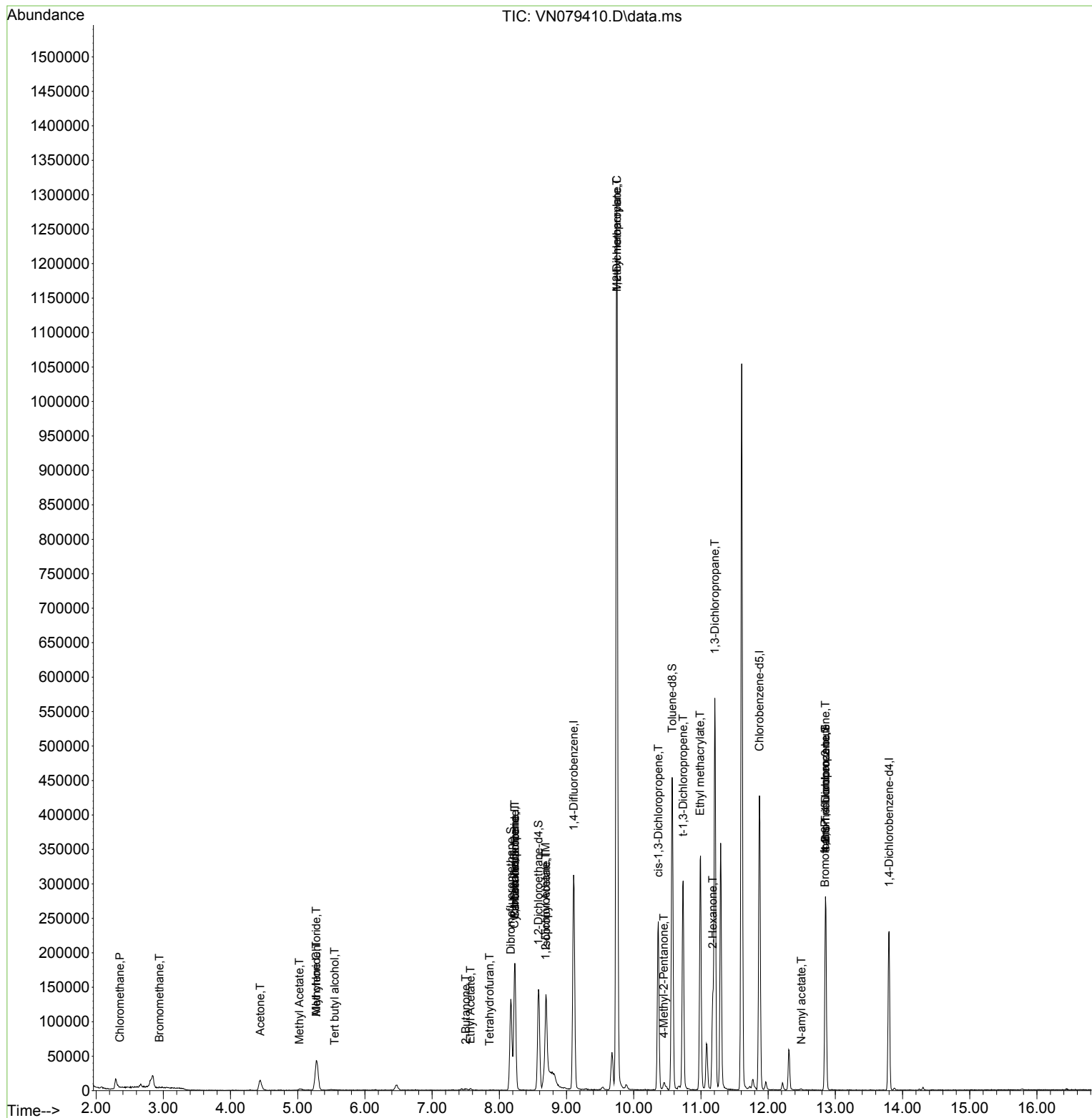
Internal Standards						
1) Pentafluorobenzene	8.230	168	128122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	258959	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	239224	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	60397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	117471	67.921	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 135.840%#	
35) Dibromofluoromethane	8.171	113	92612	53.765	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.520%	
50) Toluene-d8	10.571	98	302541	47.833	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.660%	
62) 4-Bromofluorobenzene	12.853	95	92957	46.075	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 92.140%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	557	0.335	ug/l #	42
5) Bromomethane	2.942	94	366	0.351	ug/l #	4
6) Chloroethane	3.112	64	298	Below Cal	#	43
11) Tert butyl alcohol	5.548	59	68	0.213	ug/l #	72
14) Allyl chloride	5.277	41	1625	0.745	ug/l #	19
16) Acetone	4.442	43	28235	38.439	ug/l	91
18) Methyl Acetate	5.024	43	1784	0.591	ug/l #	75
20) Methylene Chloride	5.277	84	33323	18.642	ug/l #	78
25) 2-Butanone	7.500	43	4117	3.863	ug/l #	66
29) Tetrahydrofuran	7.853	42	232	0.342	ug/l #	20
31) Cyclohexane	8.224	56	3695	1.463	ug/l #	50
36) 1,1-Dichloropropene	8.230	75	11677	4.398	ug/l #	50
37) Ethyl Acetate	7.571	43	3778	1.427	ug/l #	65
38) Carbon Tetrachloride	8.230	117	13929	5.070	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	899	0.321	ug/l #	73
43) Isopropyl Acetate	8.694	43	182404	42.212	ug/l #	72
45) 1,2-Dichloropropane	9.747	63	1544	0.765	ug/l #	45
48) Methyl methacrylate	9.747	41	121602	62.827	ug/l #	28
51) 4-Methyl-2-Pentanone	10.447	43	10901	4.346	ug/l #	72
53) t-1,3-Dichloropropene	10.735	75	700	0.237	ug/l	90
54) cis-1,3-Dichloropropene	10.365	75	40332	12.751	ug/l #	70
56) Ethyl methacrylate	10.988	69	2216	0.801	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5406	1.596	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.165	63	233	Below Cal	#	42
59) 2-Hexanone	11.177	43	108701	59.831	ug/l #	19
71) Bromoform	12.847	173	720	0.480	ug/l #	1
74) N-amyl acetate	12.494	43	1198	0.575	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	52453	32.224	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	52453	88.590	ug/l #	15

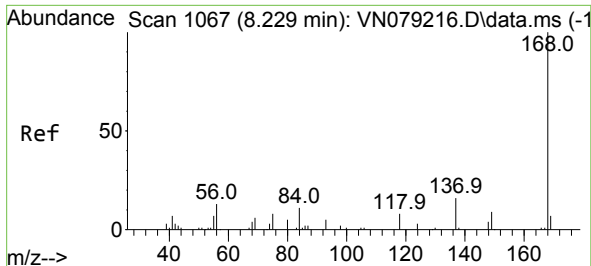
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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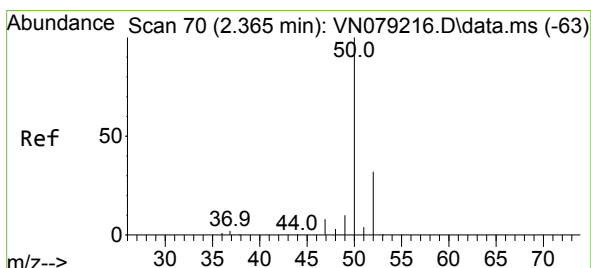
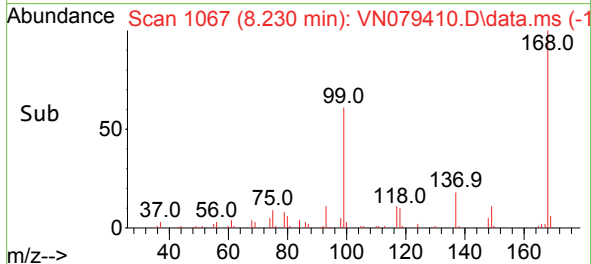
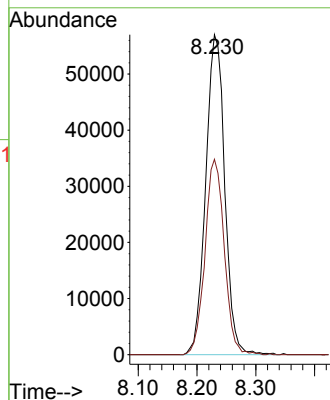
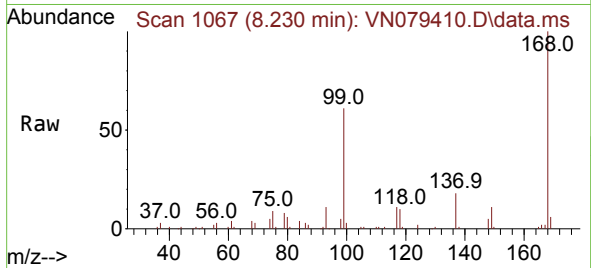




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

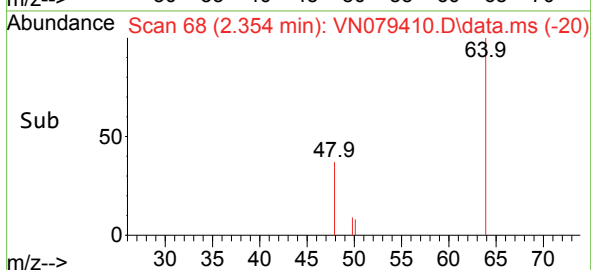
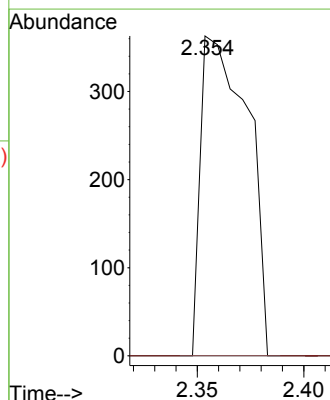
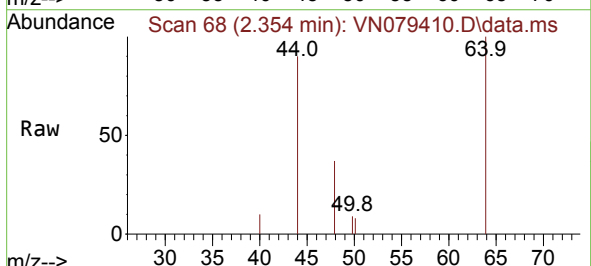
Instrument :
MSVOA_N
ClientSampleId :

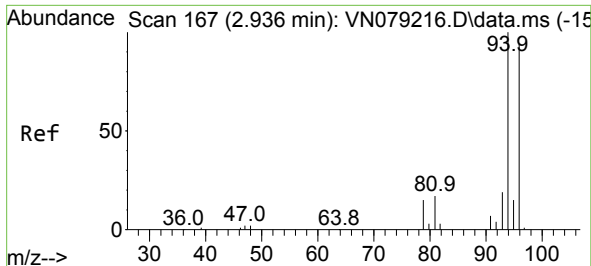
Tgt Ion:168 Resp: 128122
Ion Ratio Lower Upper
168 100
99 61.0 53.0 79.6



#3
Chloromethane
Concen: 0.335 ug/l
RT: 2.354 min Scan# 68
Delta R.T. -0.017 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

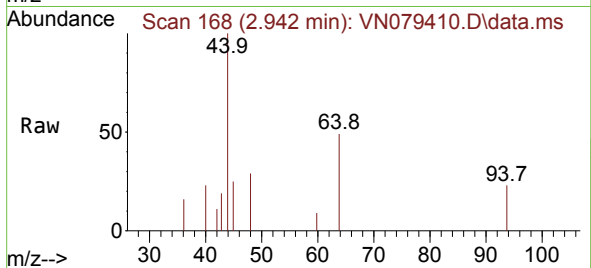
Tgt Ion: 50 Resp: 557
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



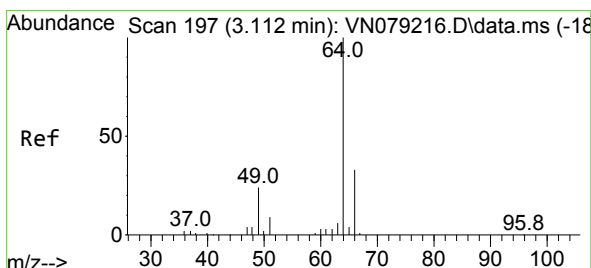
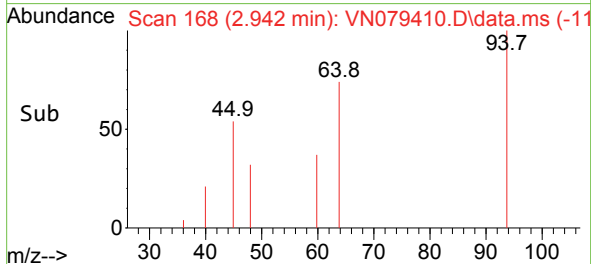
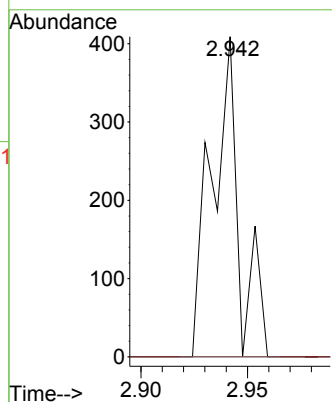


#5
Bromomethane
Concen: 0.351 ug/l
RT: 2.942 min Scan# 168
Delta R.T. -0.006 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Instrument :
MSVOA_N
ClientSampleId :

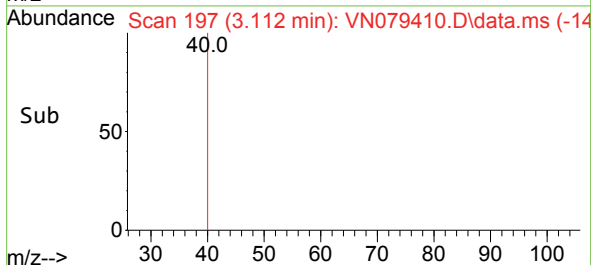
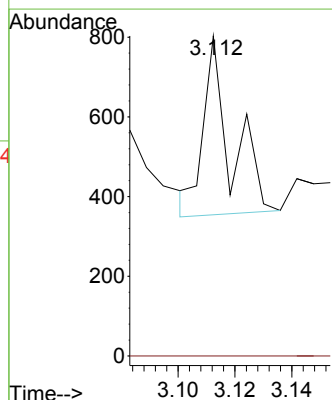
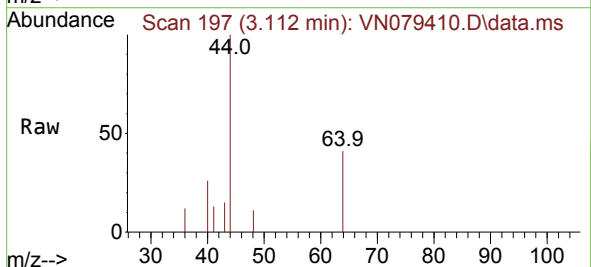


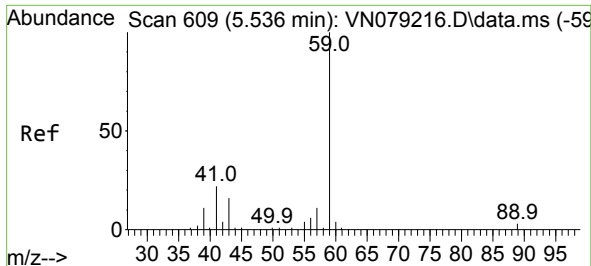
Tgt Ion: 94 Resp: 366
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 64 Resp: 298
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

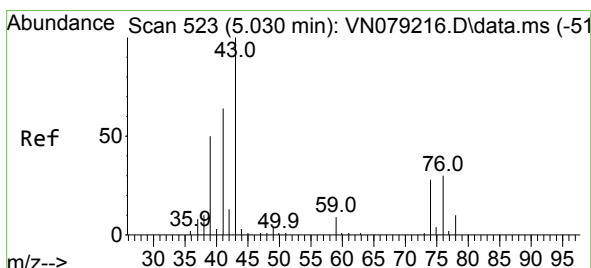
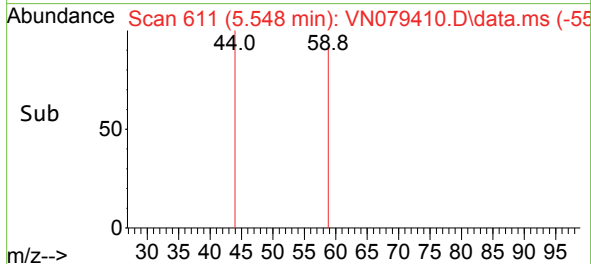
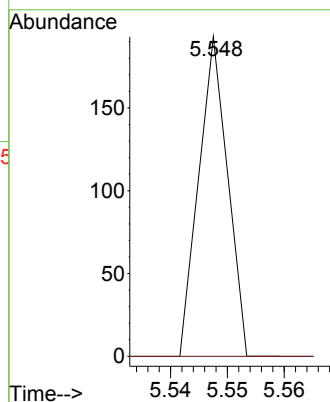
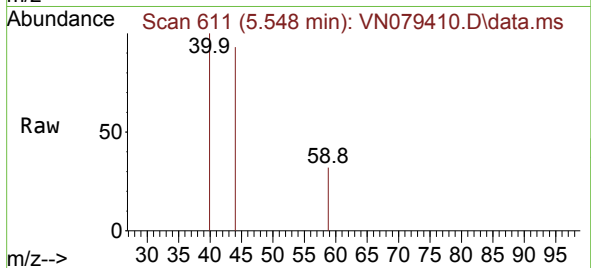




#11
Tert butyl alcohol
Concen: 0.213 ug/l
RT: 5.548 min Scan# 611
Delta R.T. 0.006 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

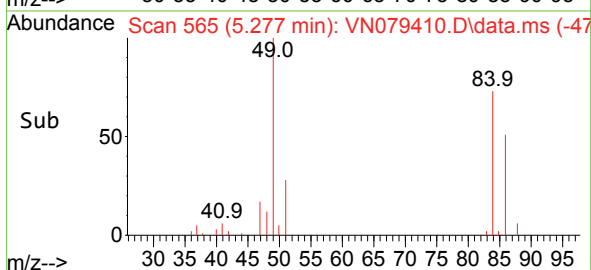
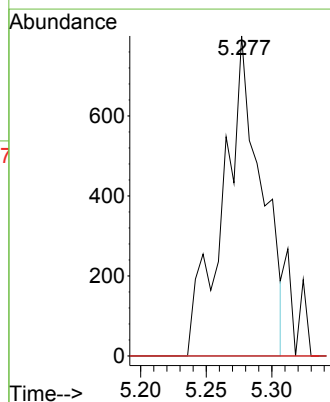
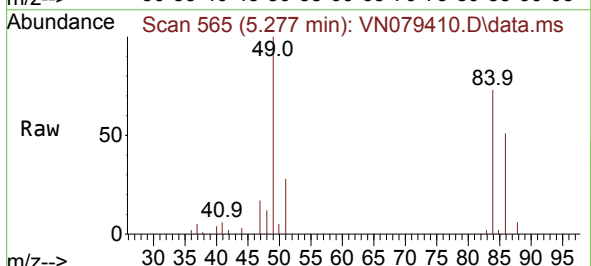
Instrument :
MSVOA_N
ClientSampleId :

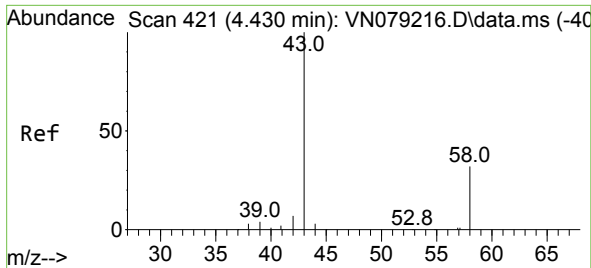
Tgt Ion: 59 Resp: 68
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#14
Allyl chloride
Concen: 0.745 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.247 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 41 Resp: 1625
Ion Ratio Lower Upper
41 100
39 0.0 58.8 88.2#
76 0.0 39.1 58.7#

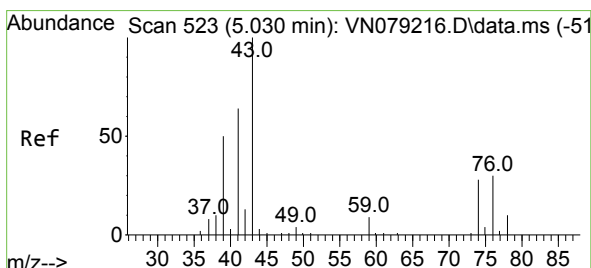
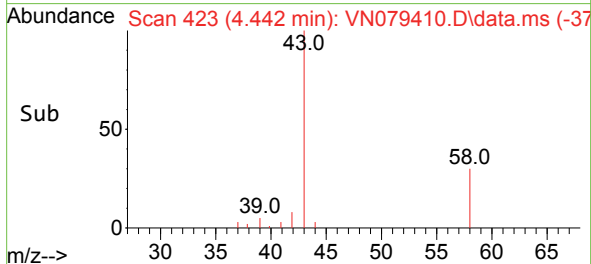
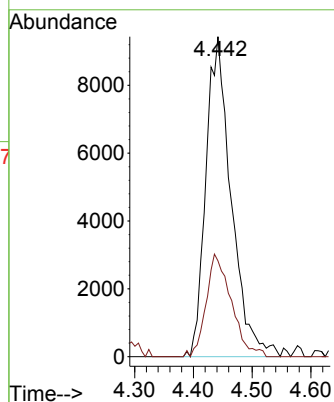
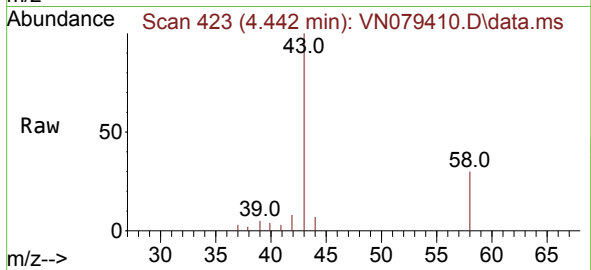




#16
Acetone
Concen: 38.439 ug/l
RT: 4.442 min Scan# 43
Delta R.T. -0.000 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

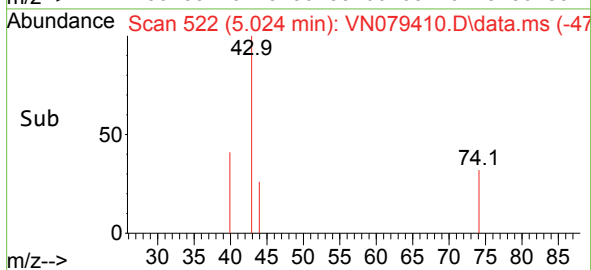
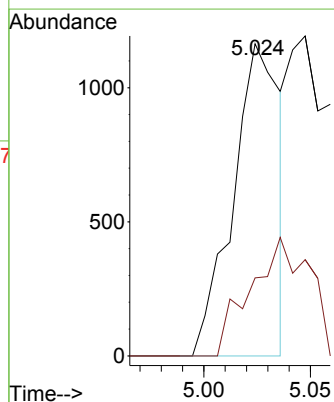
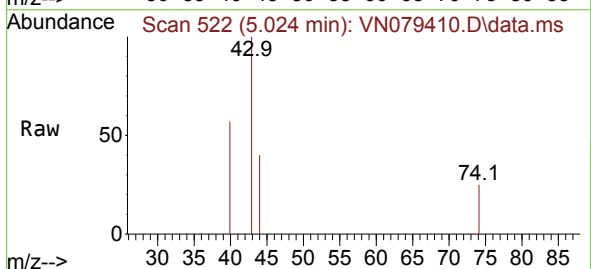
Instrument :
MSVOA_N
ClientSampleId :

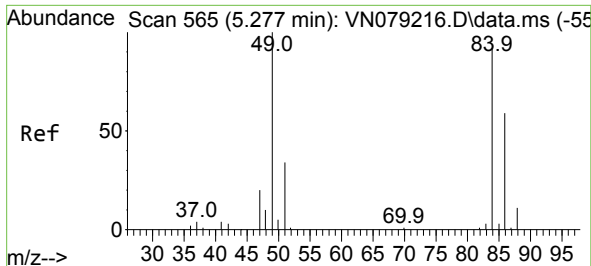
Tgt Ion: 43 Resp: 28235
Ion Ratio Lower Upper
43 100
58 30.0 28.0 42.0



#18
Methyl Acetate
Concen: 0.591 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.018 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

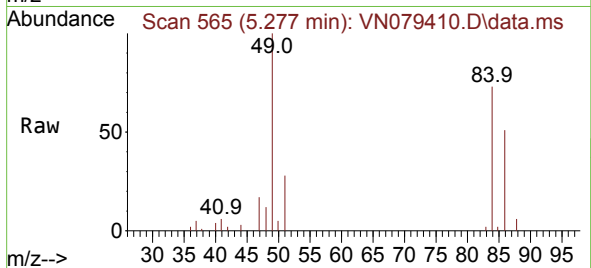
Tgt Ion: 43 Resp: 1784
Ion Ratio Lower Upper
43 100
74 46.9 26.2 39.4#





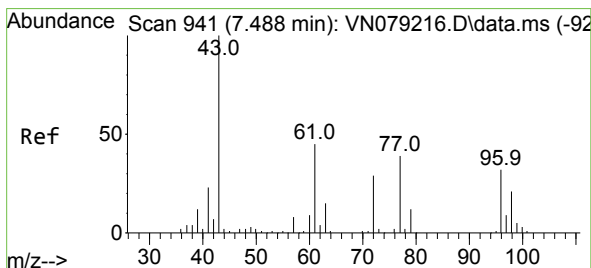
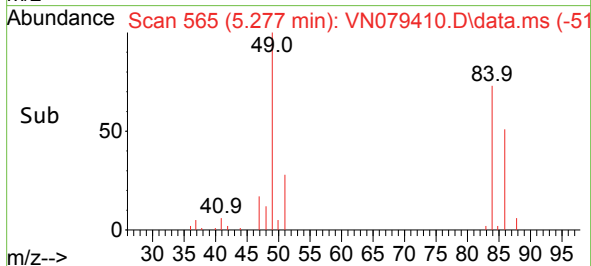
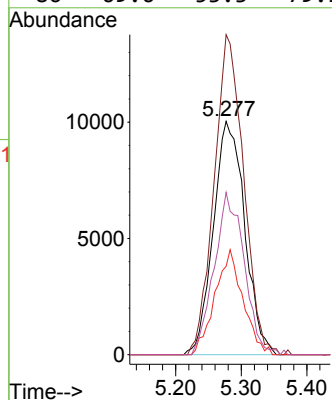
#20
Methylene Chloride
Concen: 18.642 ug/l
RT: 5.277 min Scan# 50
Delta R.T. -0.006 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 33323

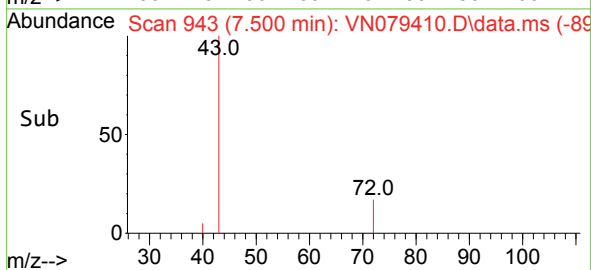
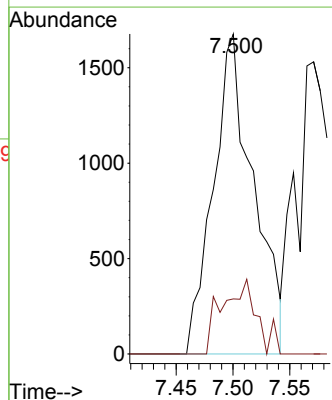
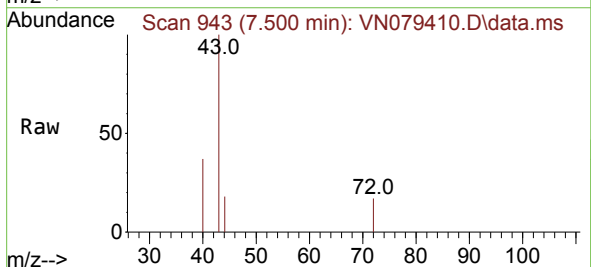
Ion	Ratio	Lower	Upper
84	100		
49	137.1	79.7	119.5#
51	37.8	25.2	37.8#
86	69.6	53.3	79.9

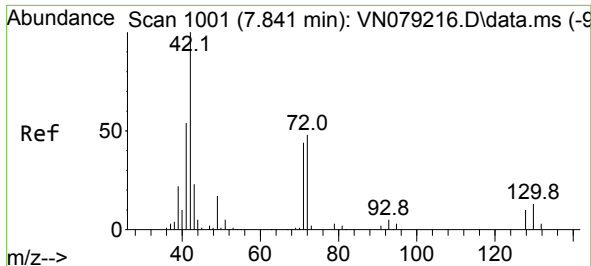


#25
2-Butanone
Concen: 3.863 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 43 Resp: 4117

Ion	Ratio	Lower	Upper
43	100		
72	17.2	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.342 ug/l

RT: 7.853 min Scan# 10

Delta R.T. 0.006 min

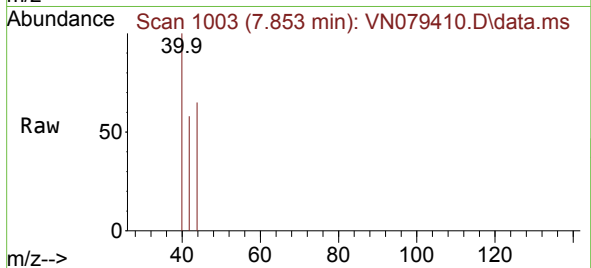
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Acq: 04 Oct 2023 18:00

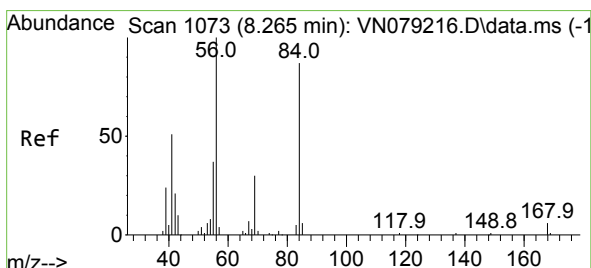
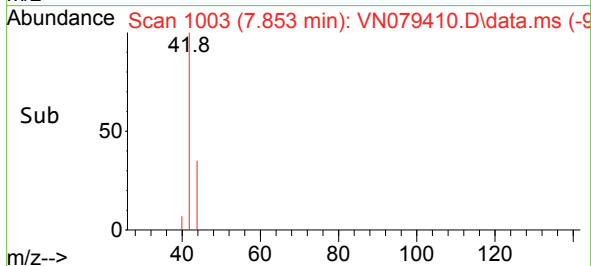
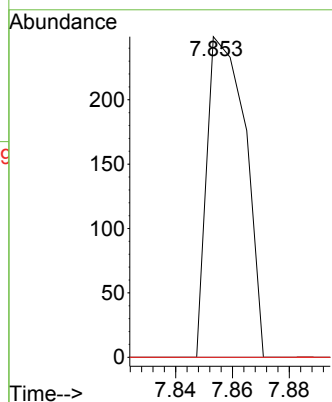
Instrument :

MSVOA_N

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Tgt Ion:	42	Resp:	232
Ion Ratio	Lower	Upper	
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.463 ug/l

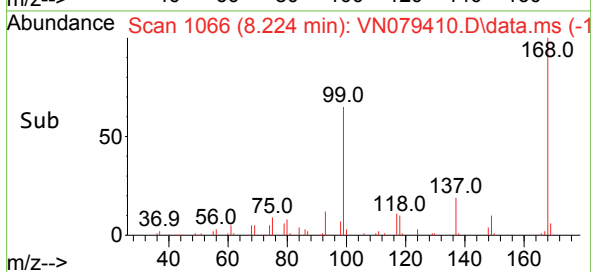
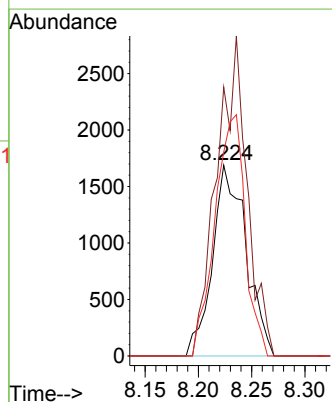
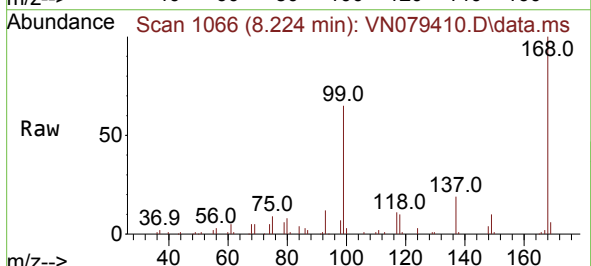
RT: 8.224 min Scan# 1066

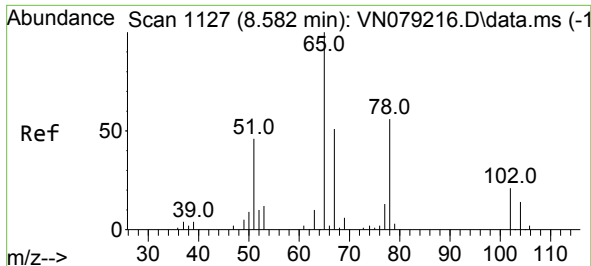
Delta R.T. -0.041 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

Tgt Ion:	56	Resp:	3695
Ion Ratio	Lower	Upper	
56	100		
69	140.9	26.8	40.2#
84	106.9	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 67.921 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

Instrument :

MSVOA_N

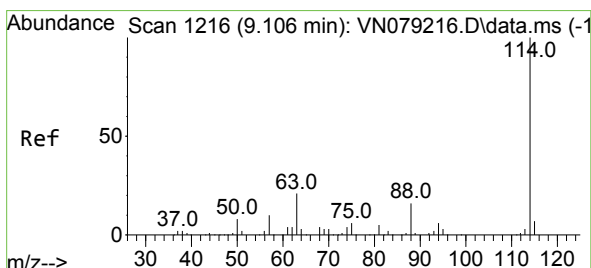
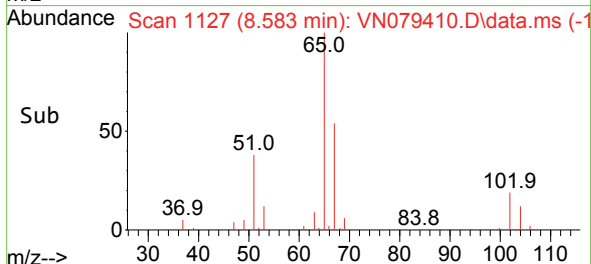
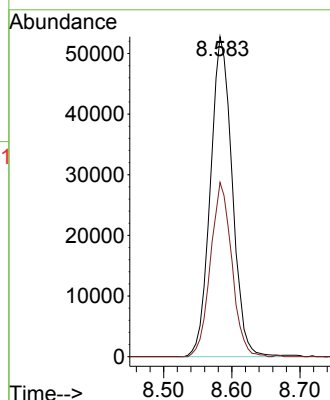
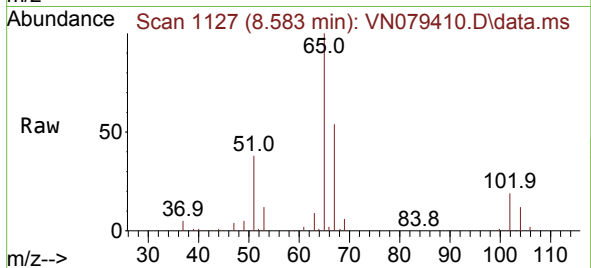
ClientSampleId :

Tgt Ion: 65 Resp: 117471

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

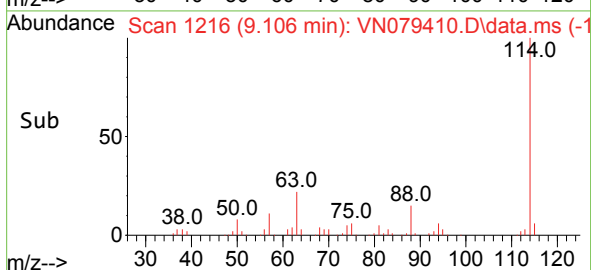
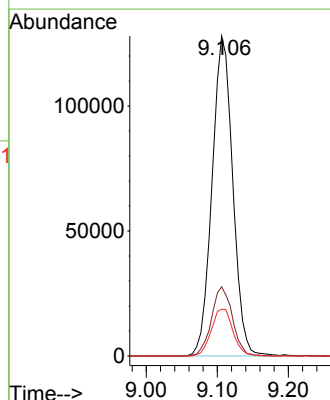
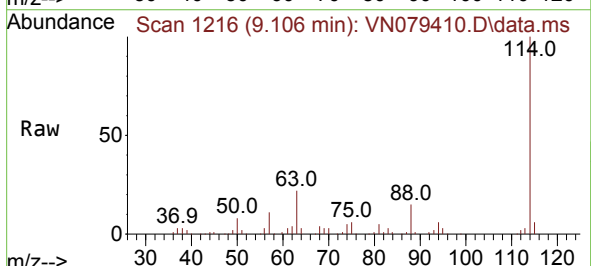
Tgt Ion:114 Resp: 258959

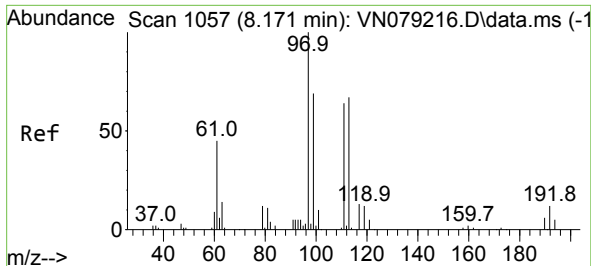
Ion Ratio Lower Upper

114 100

63 21.6 0.0 36.4

88 14.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.765 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

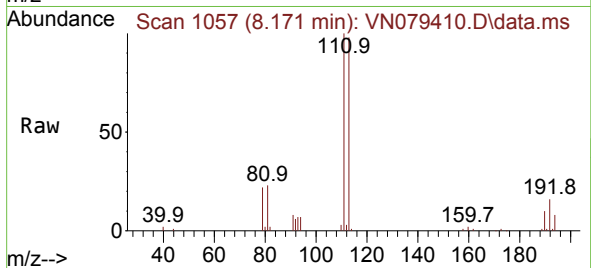
Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

Instrument :

MSVOA_N

ClientSampleId :



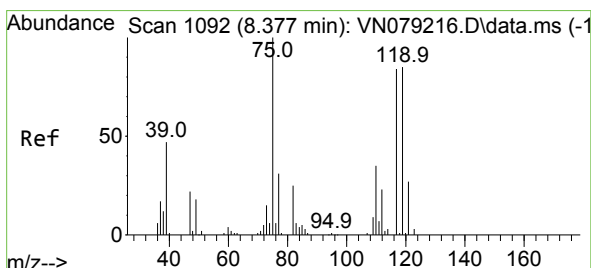
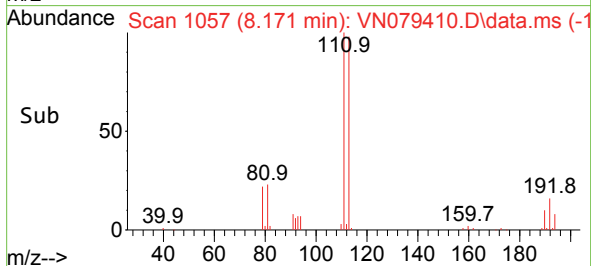
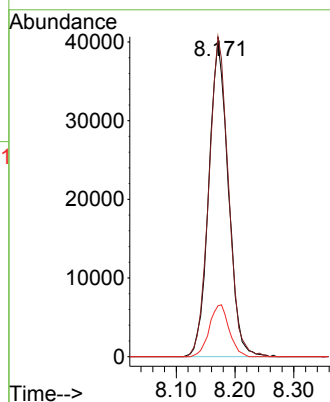
Tgt Ion:113 Resp: 92612

Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

192 16.6 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.398 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

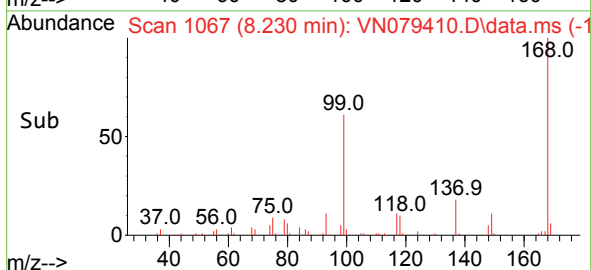
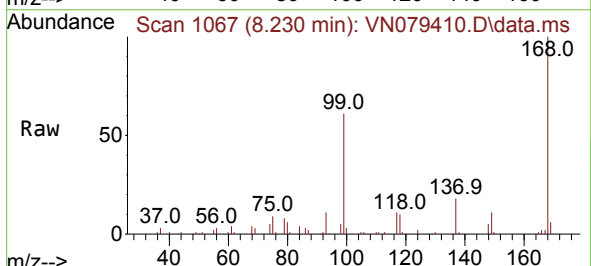
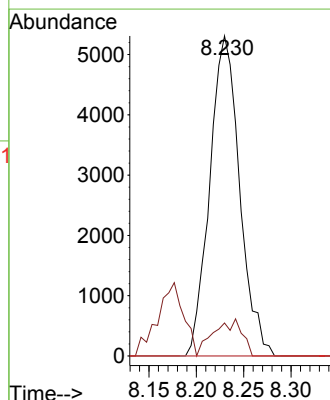
Tgt Ion: 75 Resp: 11677

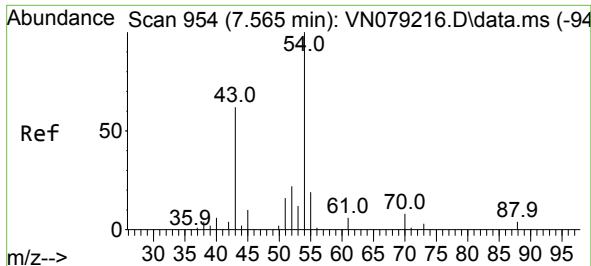
Ion Ratio Lower Upper

75 100

110 11.0 19.1 57.3#

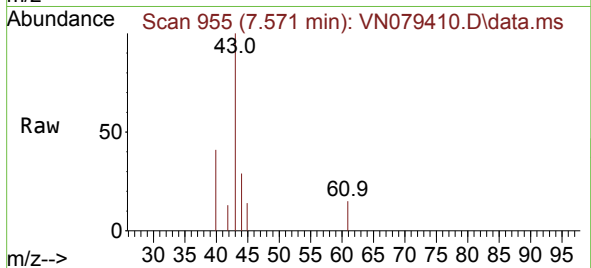
77 0.0 25.0 37.4#



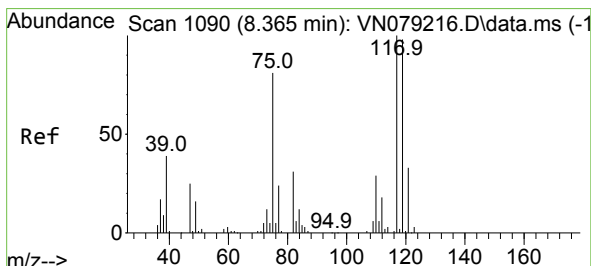
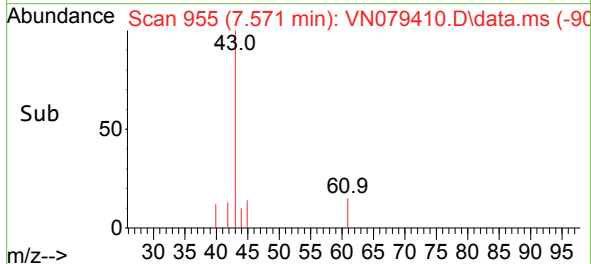
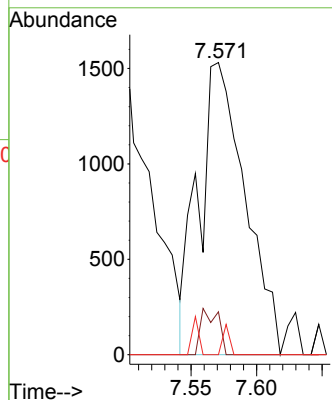


#37
Ethyl Acetate
Concen: 1.427 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Instrument :
MSVOA_N
ClientSampleId :

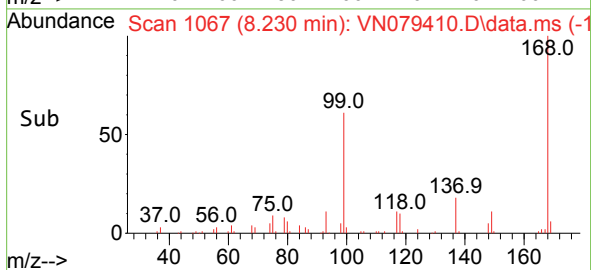
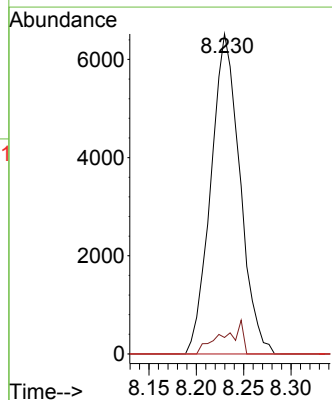
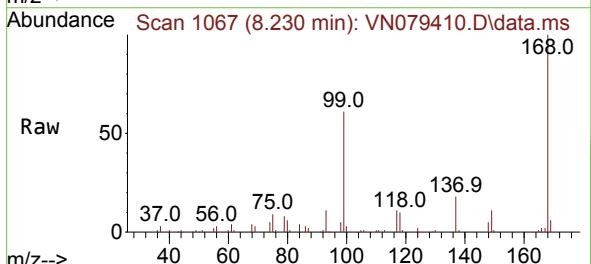


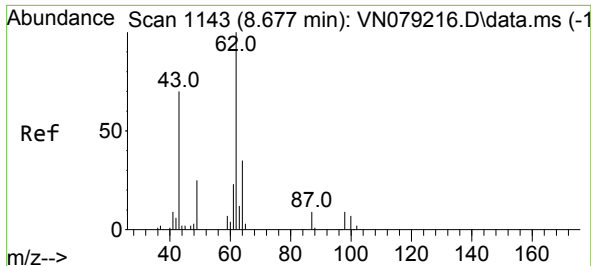
Tgt Ion: 43 Resp: 3778
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 1.5 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.070 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 117 Resp: 13929
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.321 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

Instrument :

MSVOA_N

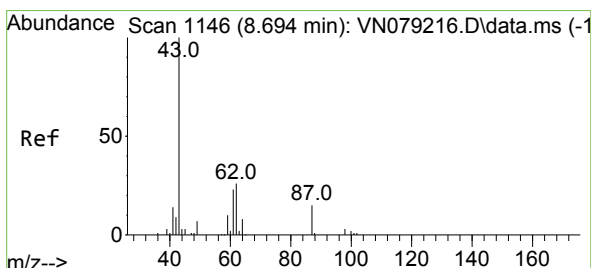
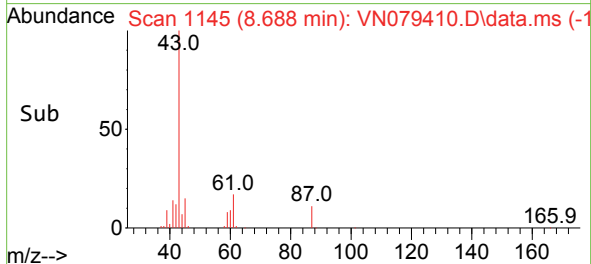
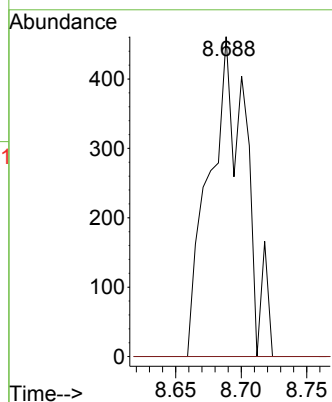
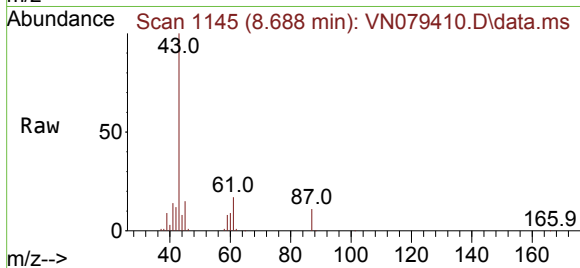
ClientSampleId :

Tgt Ion: 62 Resp: 899

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 42.212 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

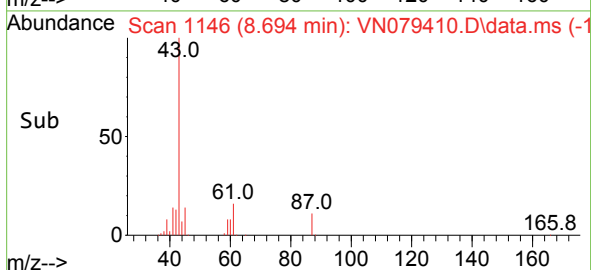
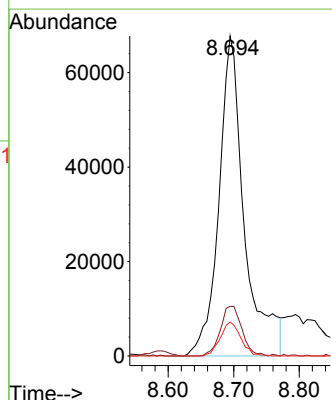
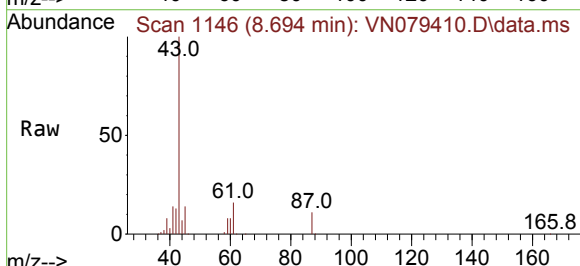
Tgt Ion: 43 Resp: 182404

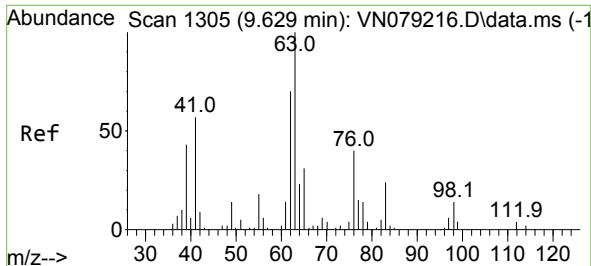
Ion Ratio Lower Upper

43 100

61 13.1 24.7 37.1#

87 8.5 14.6 21.8#

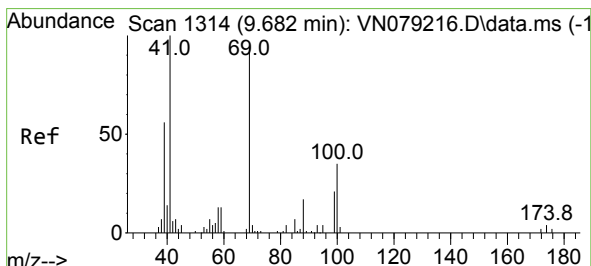
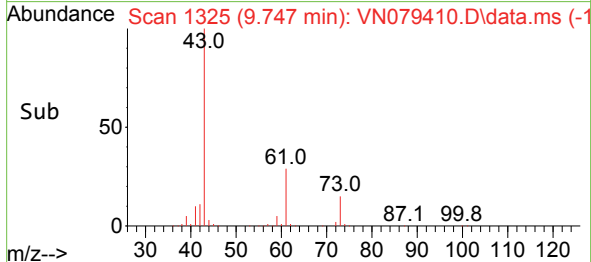
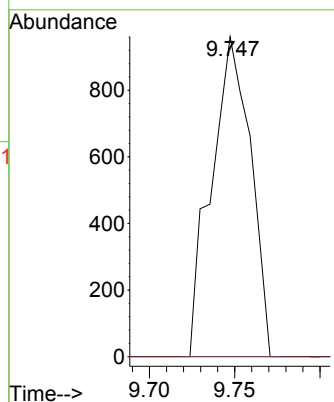
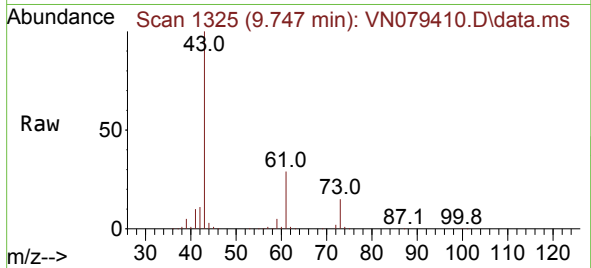




#45
1,2-Dichloropropane
Concen: 0.765 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

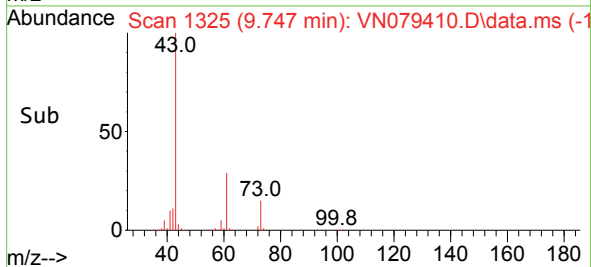
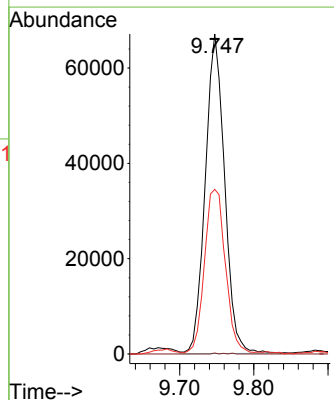
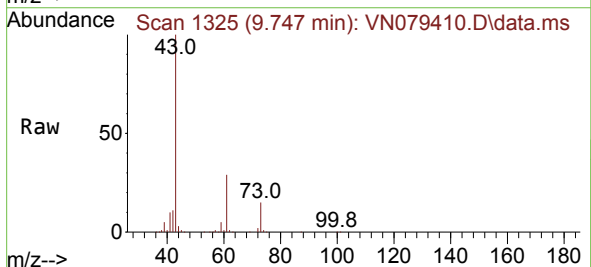
Instrument :
MSVOA_N
ClientSampleId :

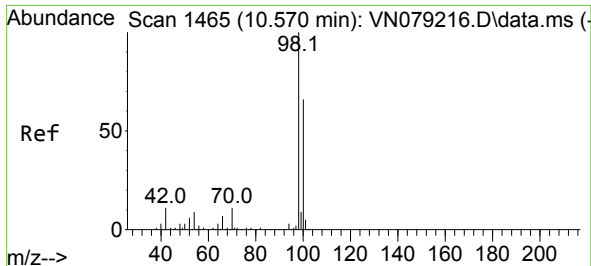
Tgt Ion: 63 Resp: 1544
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 62.827 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 41 Resp: 121602
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 55.1 54.6 81.8

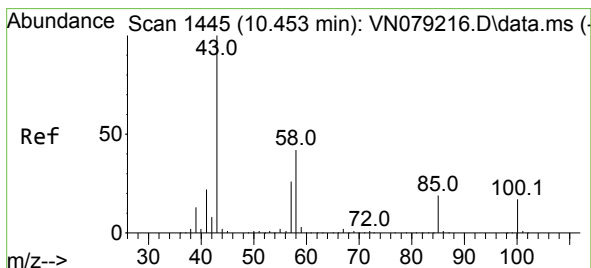
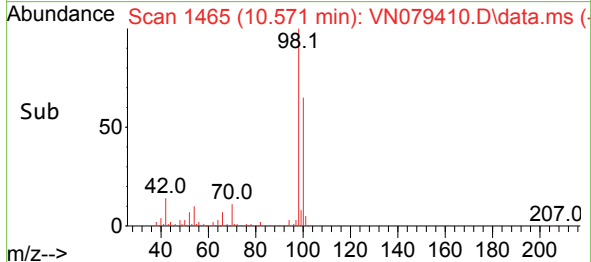
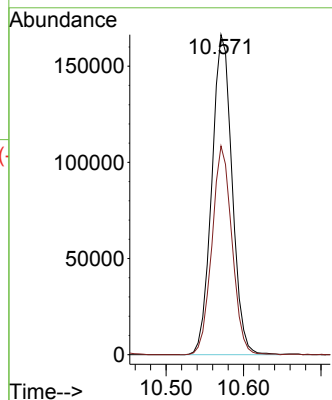
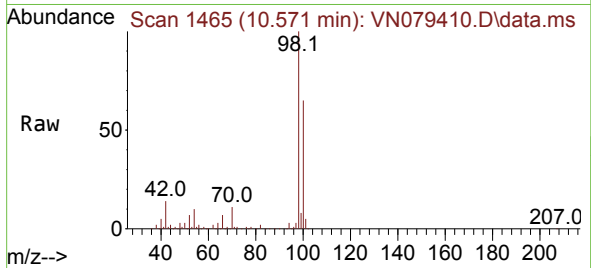




#50
Toluene-d8
Concen: 47.833 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

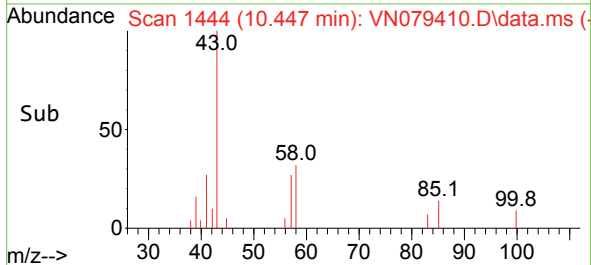
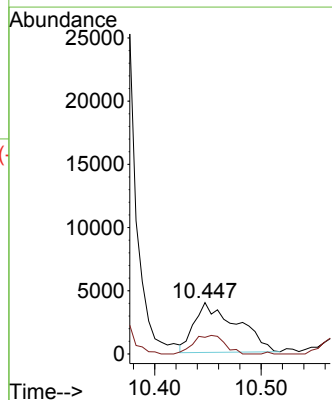
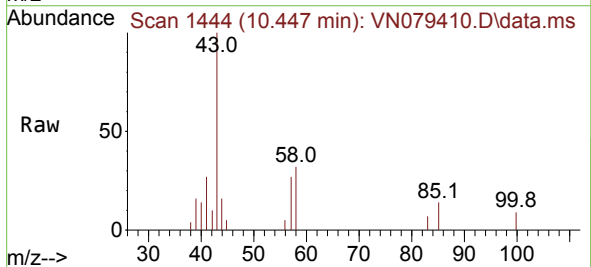
Instrument :
MSVOA_N
ClientSampleId :

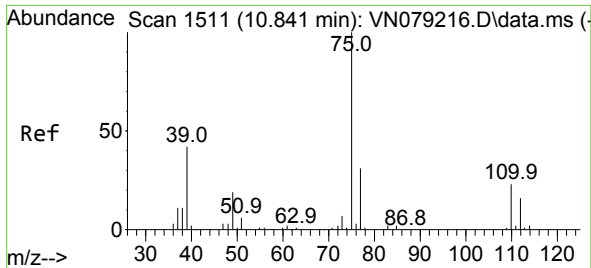
Tgt Ion: 98 Resp: 302541
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.346 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 43 Resp: 10901
Ion Ratio Lower Upper
43 100
58 27.3 36.6 54.8#

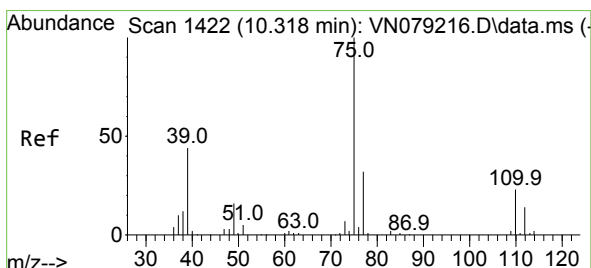
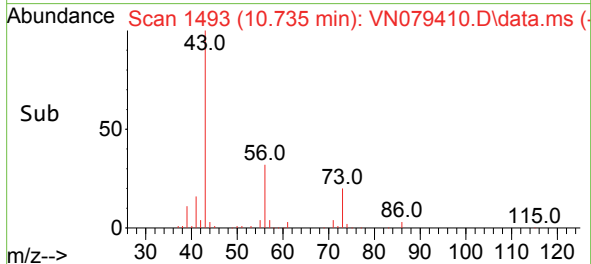
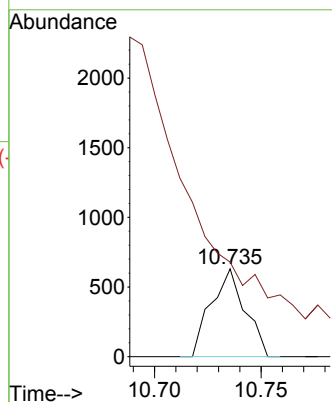
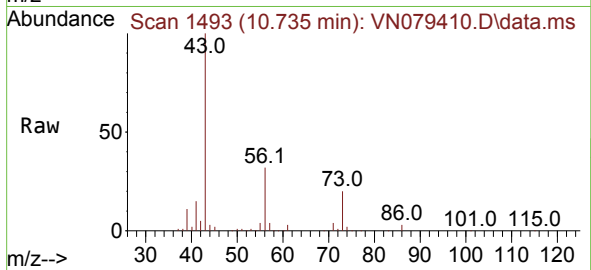




#53
 t-1,3-Dichloropropene
 Concen: 0.237 ug/l
 RT: 10.735 min Scan# 14
 Delta R.T. -0.106 min
 Lab File: VN079410.D
 Acq: 04 Oct 2023 18:00

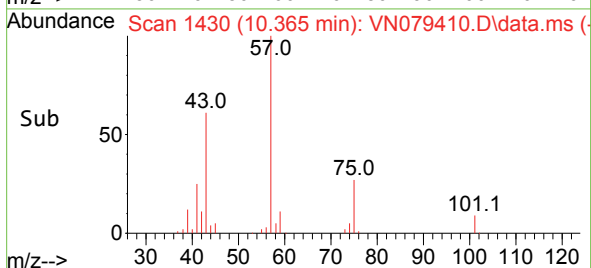
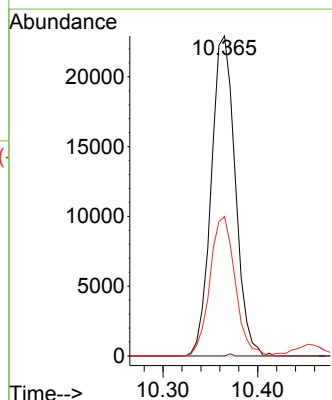
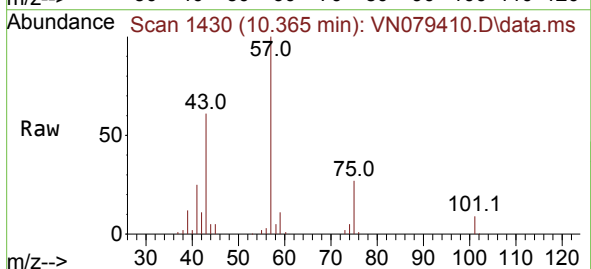
Instrument :
 MSVOA_N
 ClientSampleId :

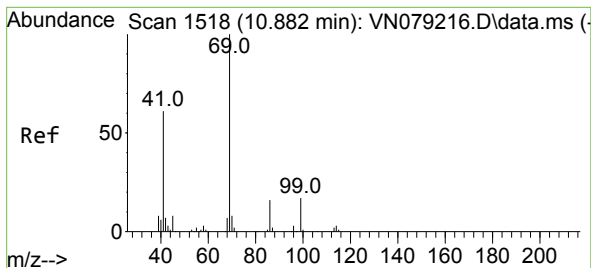
Tgt Ion: 75 Resp: 700
 Ion Ratio Lower Upper
 75 100
 77 37.4 25.4 38.0



#54
 cis-1,3-Dichloropropene
 Concen: 12.751 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079410.D
 Acq: 04 Oct 2023 18:00

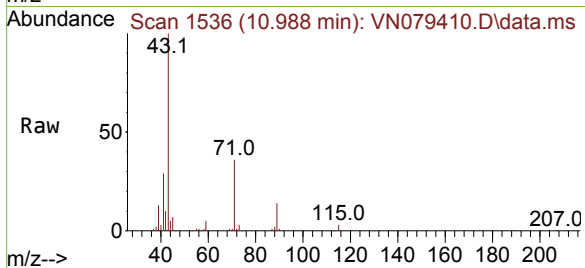
Tgt Ion: 75 Resp: 40332
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 43.6 31.6 47.4



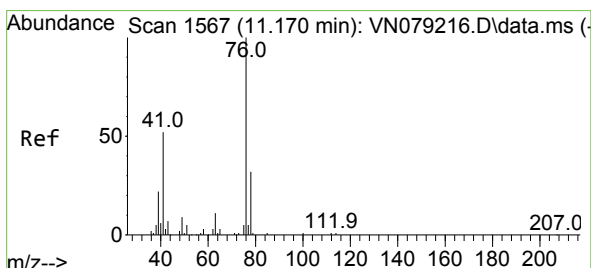
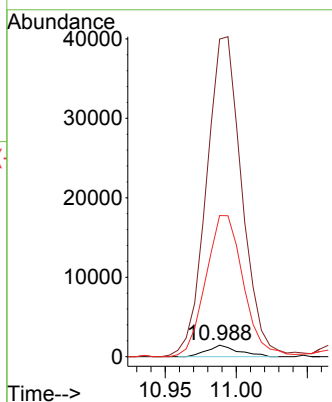
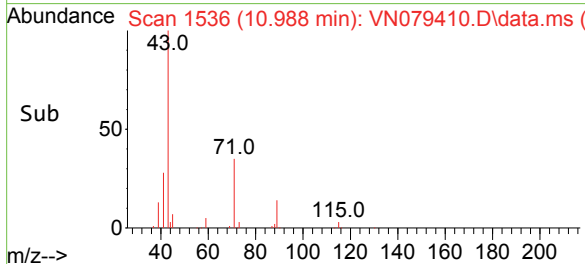


#56
Ethyl methacrylate
Concen: 0.801 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Instrument :
MSVOA_N
ClientSampleId :

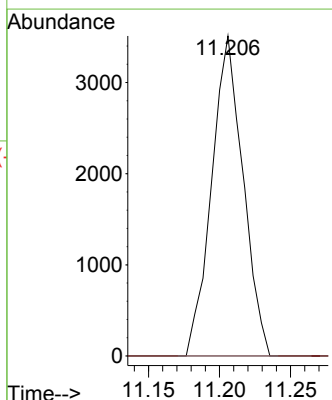
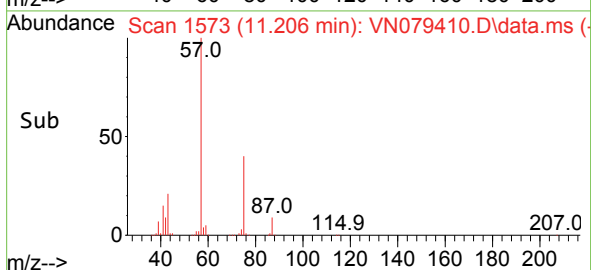
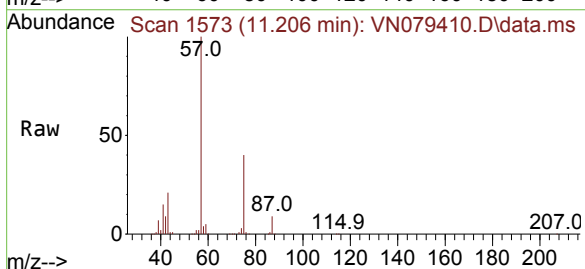


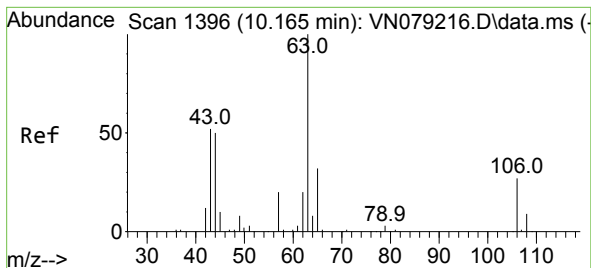
Tgt Ion: 69 Resp: 2216
Ion Ratio Lower Upper
69 100
41 3163.7 39.6 59.4#
39 1473.3 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.596 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 76 Resp: 5406
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

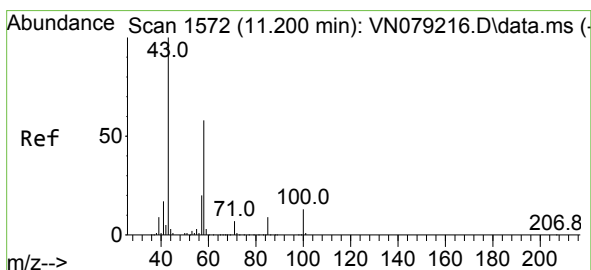
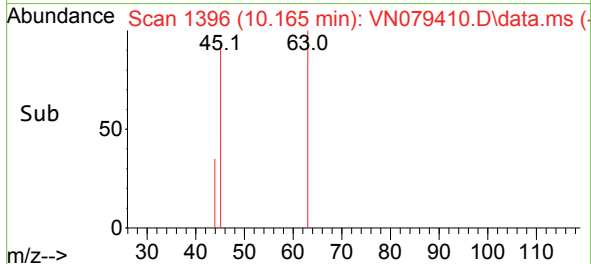
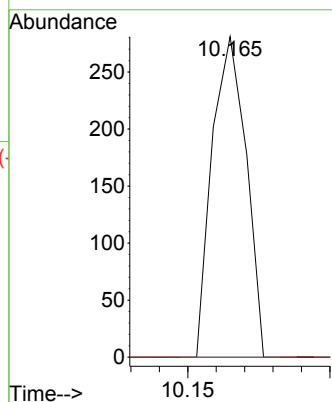
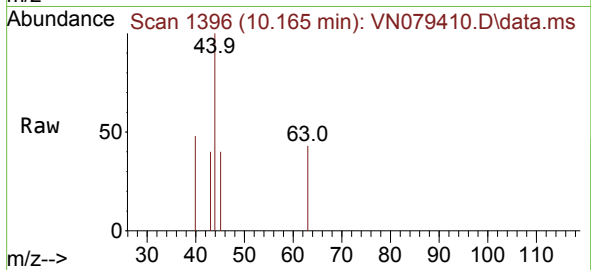




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 10.165 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

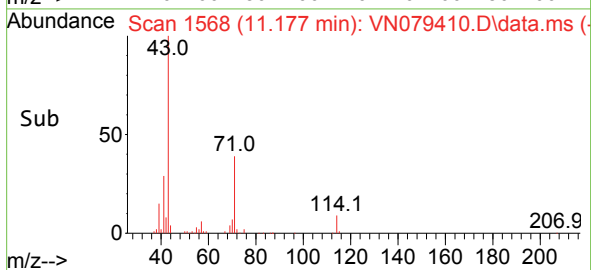
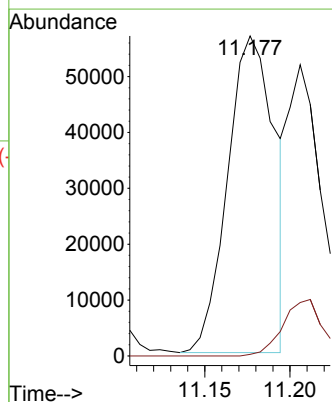
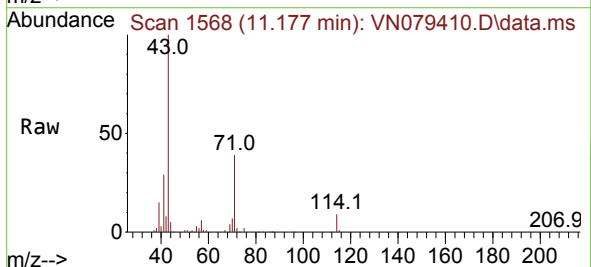
Instrument :
MSVOA_N
ClientSampleId :

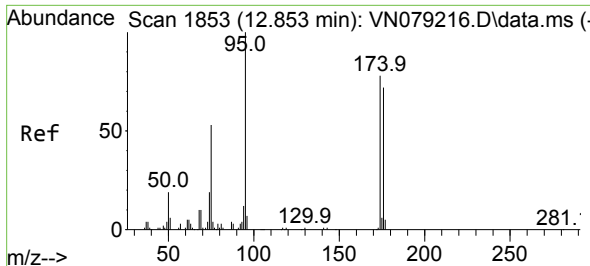
Tgt Ion: 63 Resp: 233
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 59.831 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 43 Resp: 108701
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

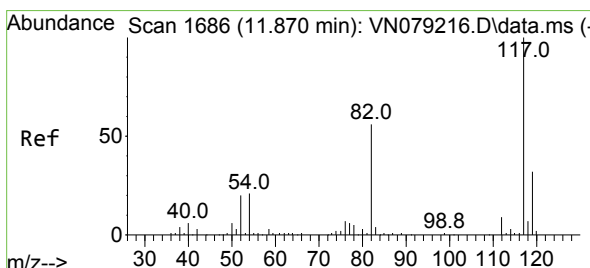
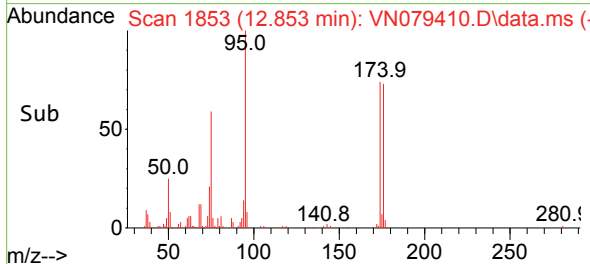
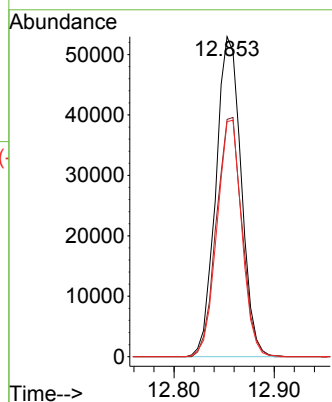
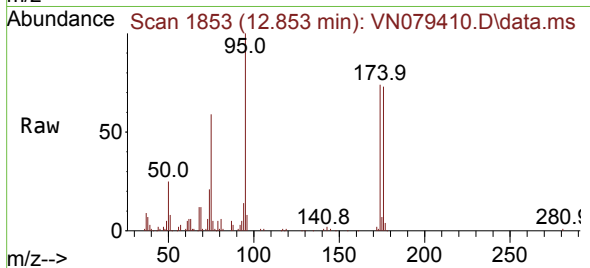




#62
4-Bromofluorobenzene
Concen: 46.075 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

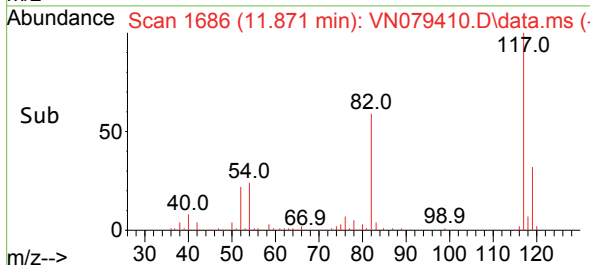
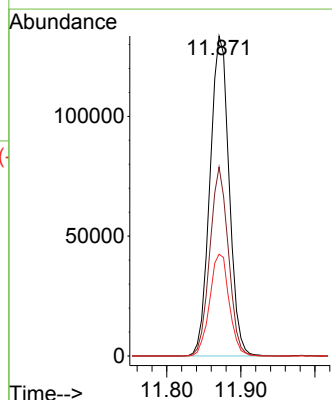
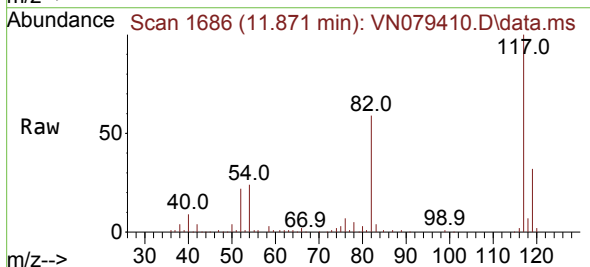
Instrument :
MSVOA_N
ClientSampleId :

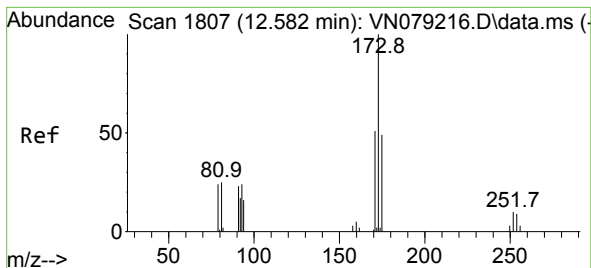
Tgt Ion: 95 Resp: 92957
Ion Ratio Lower Upper
95 100
174 75.4 0.0 143.8
176 72.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079410.D
Acq: 04 Oct 2023 18:00

Tgt Ion: 117 Resp: 239224
Ion Ratio Lower Upper
117 100
82 59.1 44.0 66.0
119 31.8 25.6 38.4





#71

Bromoform

Concen: 0.480 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

Instrument :

MSVOA_N

ClientSampleId :

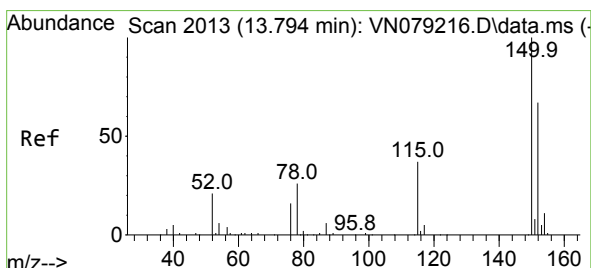
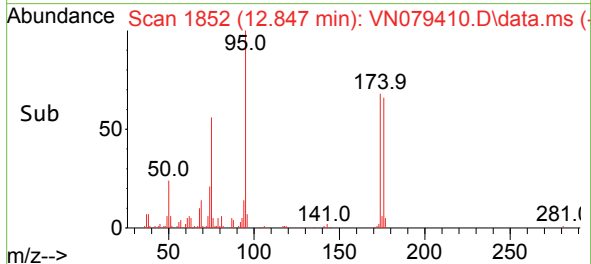
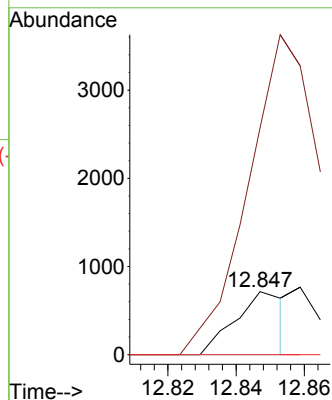
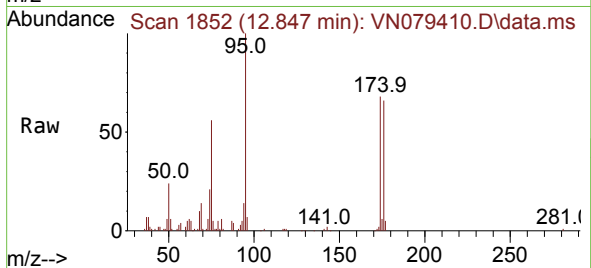
Tgt Ion:173 Resp: 720

Ion Ratio Lower Upper

173 100

175 580.7 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.006 min

Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

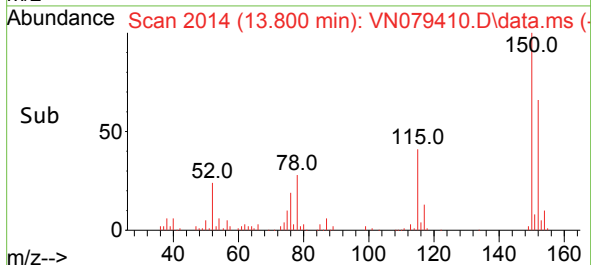
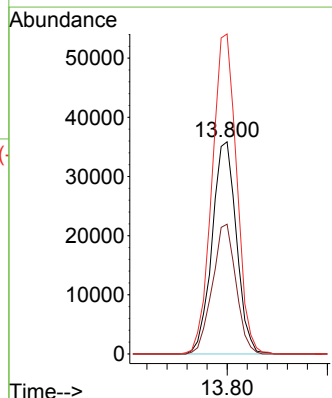
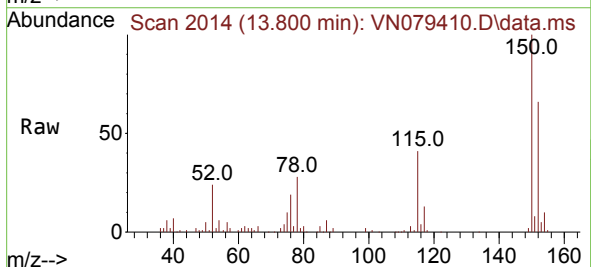
Tgt Ion:152 Resp: 60397

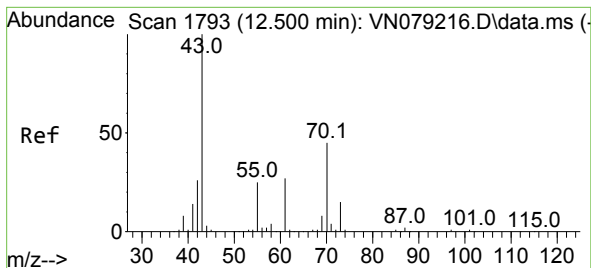
Ion Ratio Lower Upper

152 100

115 59.3 32.3 96.8

150 152.7 0.0 355.8





#74

N-amy1 acetate

Concen: 0.575 ug/l

RT: 12.494 min Scan# 1198

Delta R.T. -0.006 min

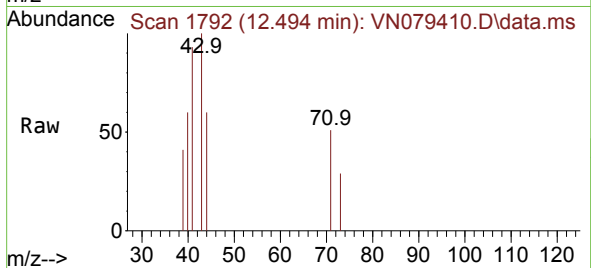
Lab File: VN079410.D

Acq: 04 Oct 2023 18:00

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1198

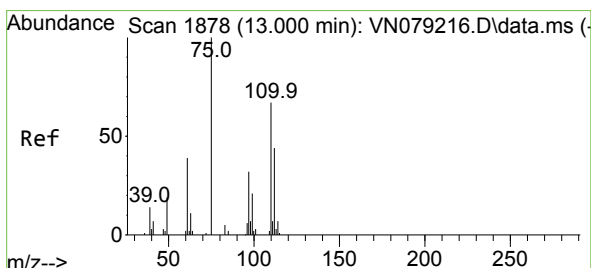
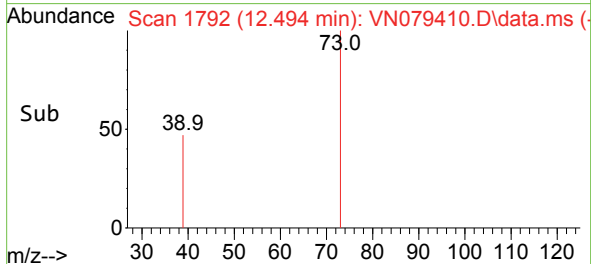
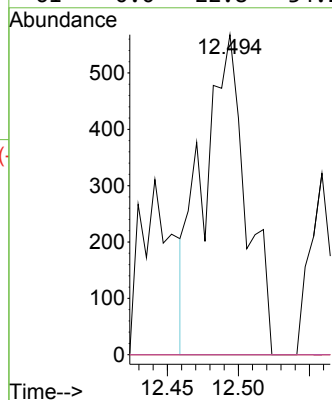
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 32.224 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079410.D

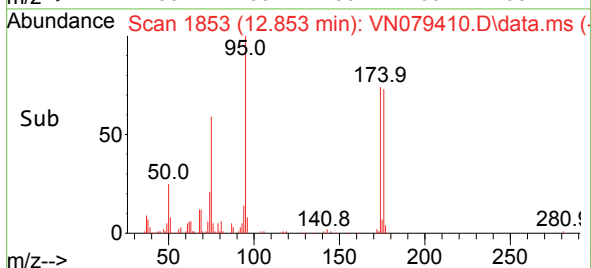
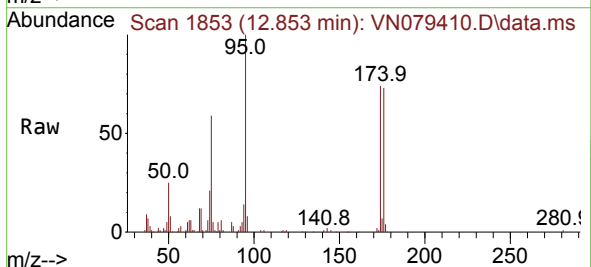
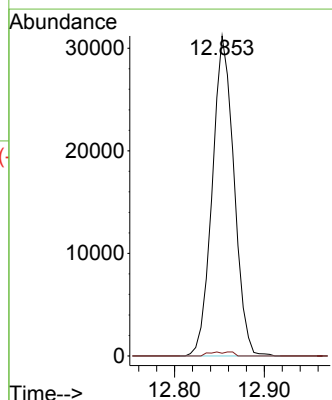
Acq: 04 Oct 2023 18:00

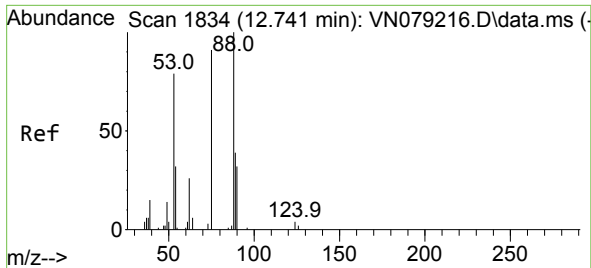
Tgt Ion: 75 Resp: 52453

Ion Ratio Lower Upper

75 100

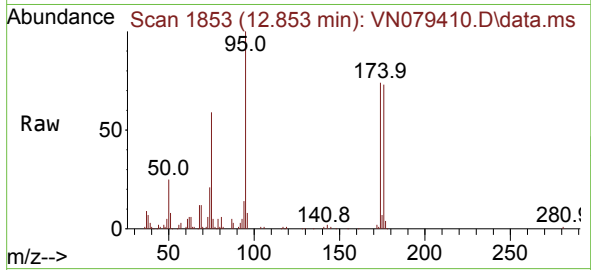
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.590 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079410.D
 Acq: 04 Oct 2023 18:00

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 52453
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

