

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042523\
 Data File : VN077469.D
 Acq On : 25 Apr 2023 14:06
 Operator : JC\MD
 Sample : VN0425WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0425WBL01

Quant Time: Apr 26 04:17:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

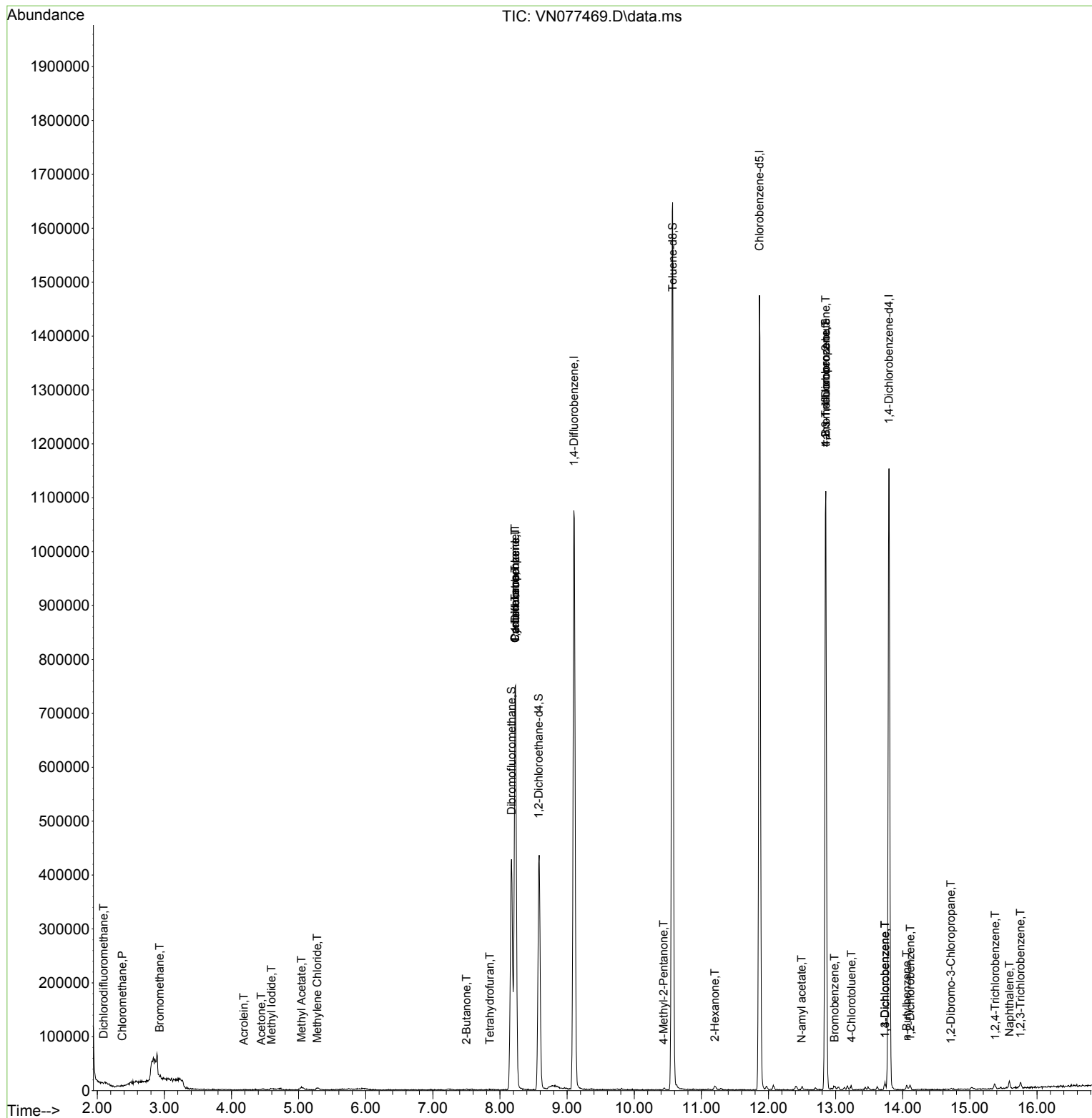
Internal Standards						
1) Pentafluorobenzene	8.231	168	546217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.101	114	992597	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	892826	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	313802	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.578	65	356267	49.985	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.960%
35) Dibromofluoromethane	8.172	113	309400	51.861	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.720%
50) Toluene-d8	10.572	98	1217679	53.255	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.520%
62) 4-Bromofluorobenzene	12.854	95	394635	52.753	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	105.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.096	85	58	0.318	ug/l #	43
3) Chloromethane	2.372	50	1437	0.262	ug/l #	80
5) Bromomethane	2.931	94	3033	0.480	ug/l #	61
10) Methyl Iodide	4.596	142	3642	0.475	ug/l	94
13) Acrolein	4.184	56	381	0.335	ug/l #	83
16) Acetone	4.443	43	468	0.206	ug/l #	40
18) Methyl Acetate	5.043	43	6885	0.786	ug/l #	75
20) Methylene Chloride	5.278	84	3303	0.459	ug/l #	54
25) 2-Butanone	7.501	43	1564	0.486	ug/l #	56
29) Tetrahydrofuran	7.848	42	445	0.221	ug/l #	42
31) Cyclohexane	8.225	56	13071	1.295	ug/l #	38
36) 1,1-Dichloropropene	8.225	75	46554	5.401	ug/l #	49
38) Carbon Tetrachloride	8.225	117	59038	6.208	ug/l #	16
51) 4-Methyl-2-Pentanone	10.436	43	2558	0.385	ug/l #	74
59) 2-Hexanone	11.201	43	5576	1.154	ug/l	89
74) N-amyl acetate	12.495	43	2896	0.336	ug/l #	90
76) 1,2,3-Trichloropropane	12.854	75	210398	28.833	ug/l #	1
77) Bromobenzene	12.983	156	2003	0.316	ug/l	59
81) trans-1,4-Dichloro-2-b...	12.854	75	210398	81.458	ug/l #	15
82) 4-Chlorotoluene	13.236	91	4830	0.260	ug/l	81
87) 1,3-Dichlorobenzene	13.736	146	3462	0.307	ug/l	90
88) 1,4-Dichlorobenzene	13.736	146	3462	0.311	ug/l	92
89) n-Butylbenzene	14.060	91	4873	0.284	ug/l	94
91) 1,2-Dichlorobenzene	14.113	146	3960	0.354	ug/l	88
92) 1,2-Dibromo-3-Chloropr...	14.719	75	757	0.447	ug/l	60
93) 1,2,4-Trichlorobenzene	15.377	180	3030	2.111	ug/l	92
95) Naphthalene	15.589	128	13422	2.708	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.754	180	3341	2.056	ug/l	83

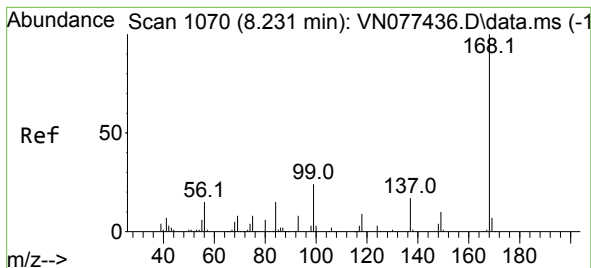
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Apr 25 02:50:59 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Instrument :

MSVOA_N

ClientSampleId :

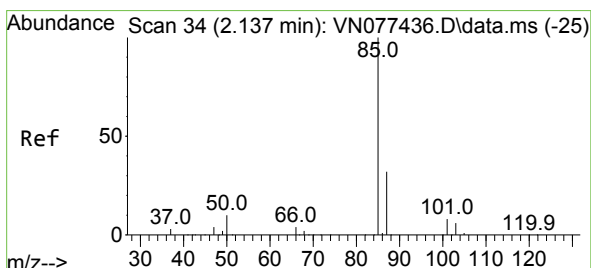
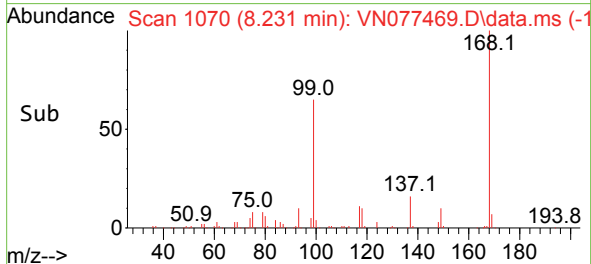
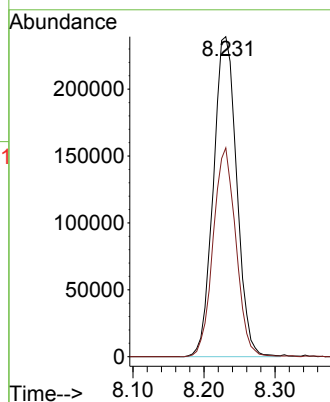
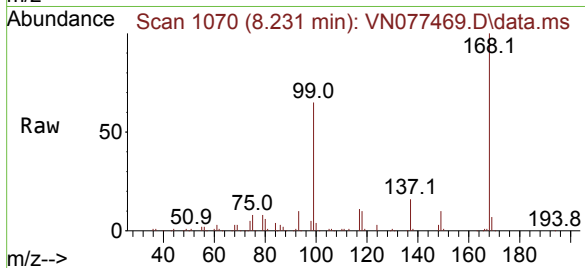
VN0425WBL01

Tgt Ion:168 Resp: 546217

Ion Ratio Lower Upper

168 100

99 65.2 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.318 ug/l

RT: 2.096 min Scan# 27

Delta R.T. -0.041 min

Lab File: VN077469.D

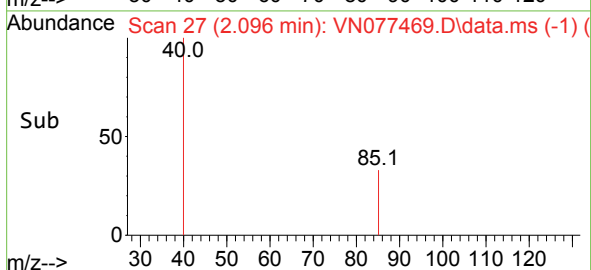
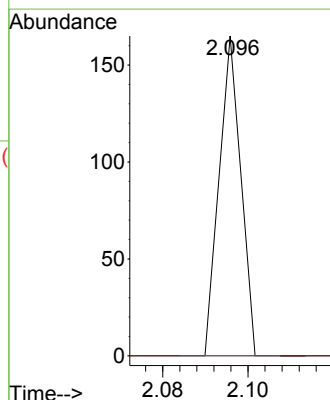
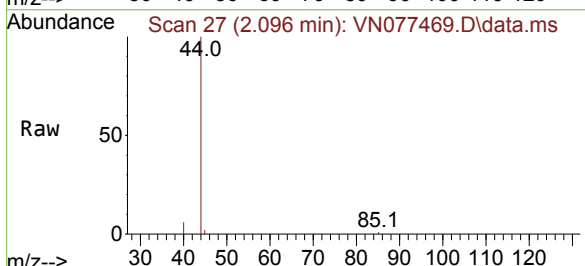
Acq: 25 Apr 2023 14:06

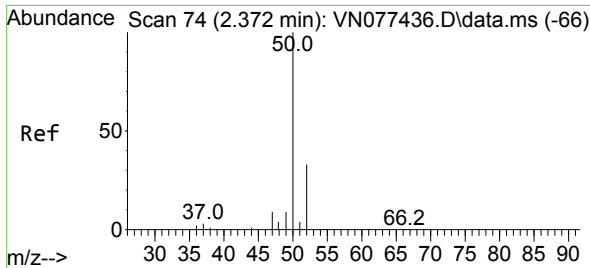
Tgt Ion: 85 Resp: 58

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#

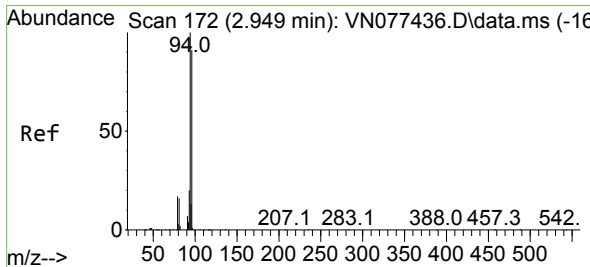
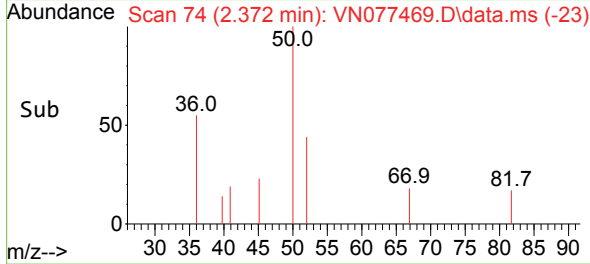
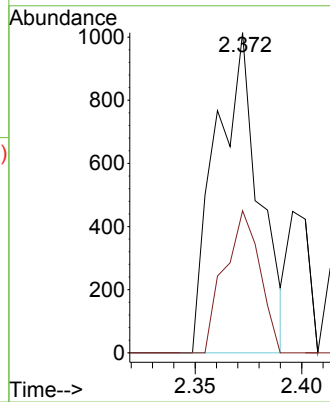
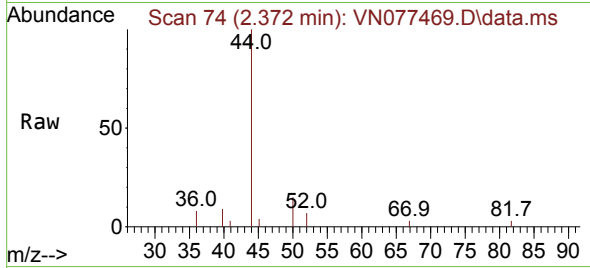




#3
Chloromethane
Concen: 0.262 ug/l
RT: 2.372 min Scan# 74
Delta R.T. 0.000 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

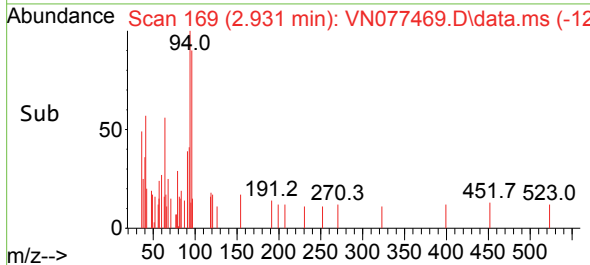
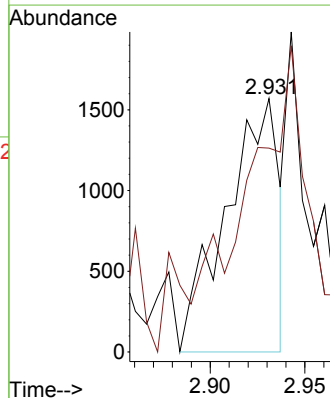
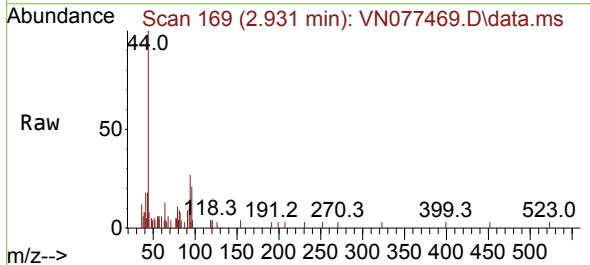
Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

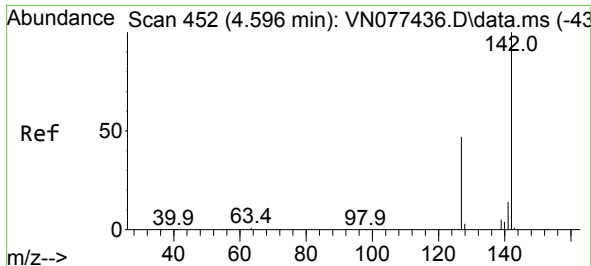
Tgt Ion: 50 Resp: 1437
Ion Ratio Lower Upper
50 100
52 44.4 26.5 39.7#



#5
Bromomethane
Concen: 0.480 ug/l
RT: 2.931 min Scan# 169
Delta R.T. -0.018 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

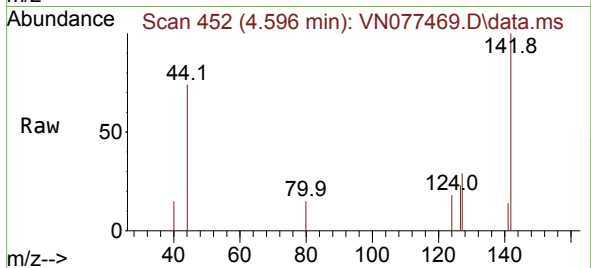
Tgt Ion: 94 Resp: 3033
Ion Ratio Lower Upper
94 100
96 54.1 73.1 109.7#



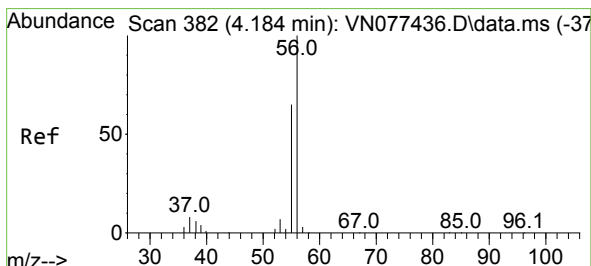
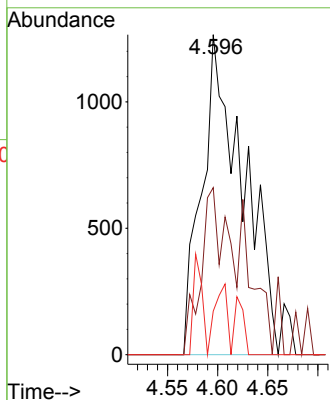
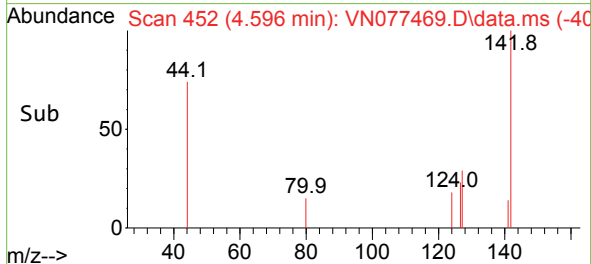


#10
Methyl Iodide
Concen: 0.475 ug/l
RT: 4.596 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

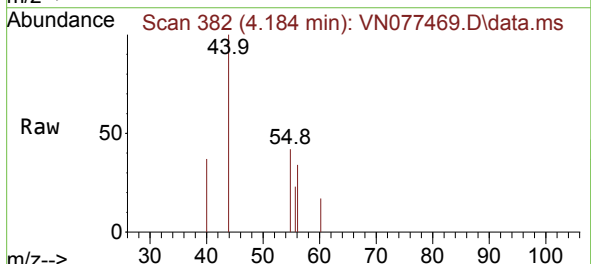
Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01



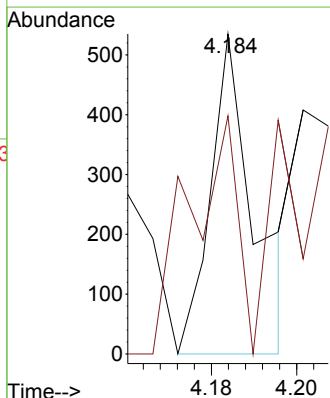
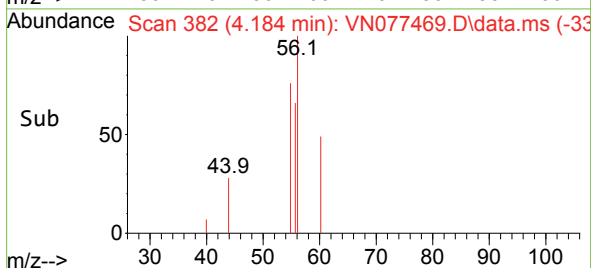
Tgt Ion:142 Resp: 3642
Ion Ratio Lower Upper
142 100
127 52.2 37.6 56.4
141 13.6 11.4 17.0

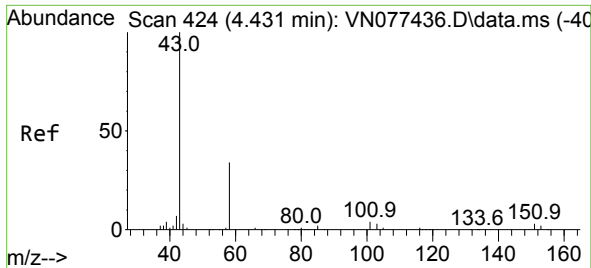


#13
Acrolein
Concen: 0.335 ug/l
RT: 4.184 min Scan# 382
Delta R.T. 0.000 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06



Tgt Ion: 56 Resp: 381
Ion Ratio Lower Upper
56 100
55 81.9 54.5 81.7#

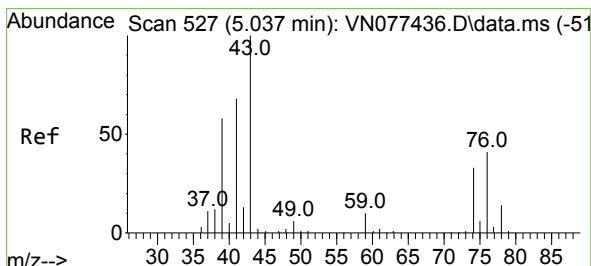
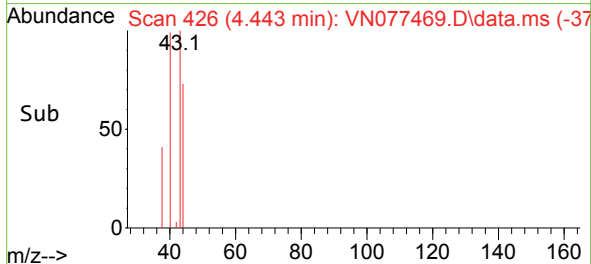
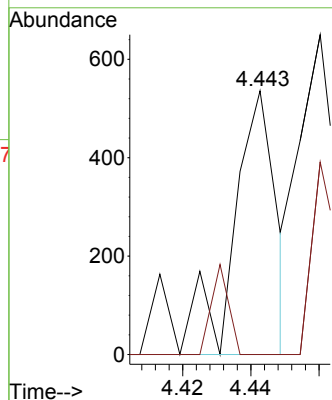
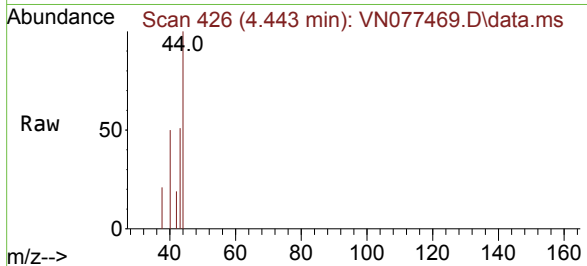




#16
Acetone
Concen: 0.206 ug/l
RT: 4.443 min Scan# 431
Delta R.T. 0.012 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

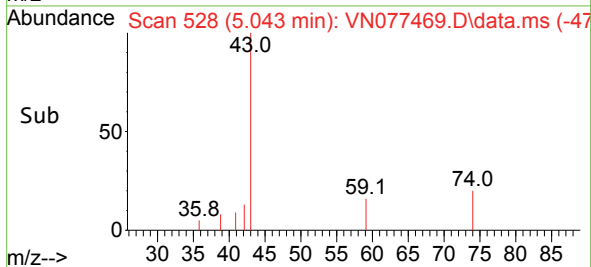
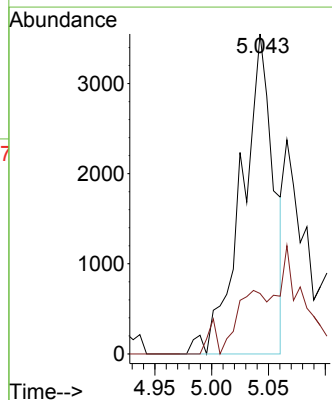
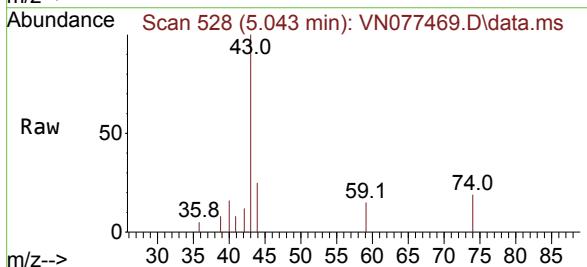
Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

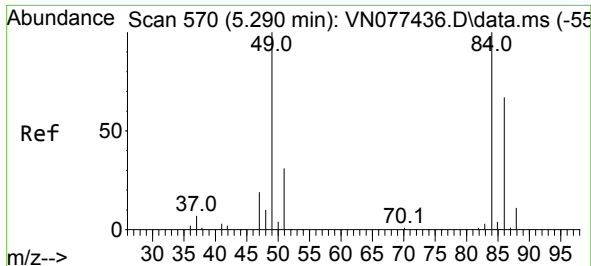
Tgt Ion: 43 Resp: 468
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#18
Methyl Acetate
Concen: 0.786 ug/l
RT: 5.043 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

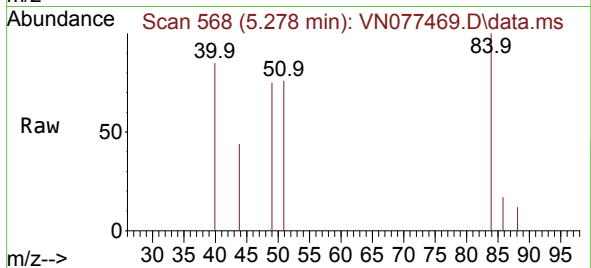
Tgt Ion: 43 Resp: 6885
Ion Ratio Lower Upper
43 100
74 18.4 26.2 39.4#



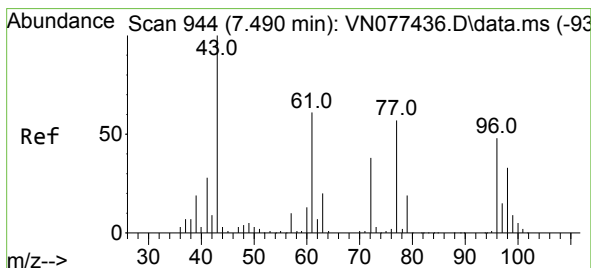
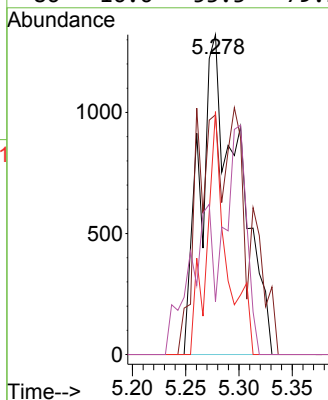


#20
Methylene Chloride
Concen: 0.459 ug/l
RT: 5.278 min Scan# 511
Delta R.T. -0.012 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

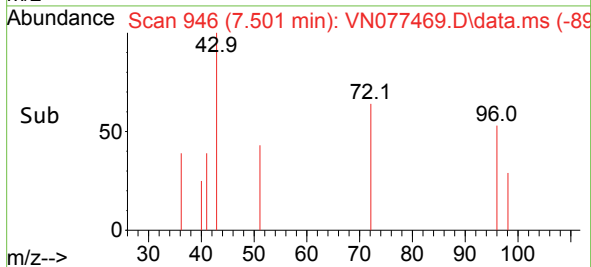
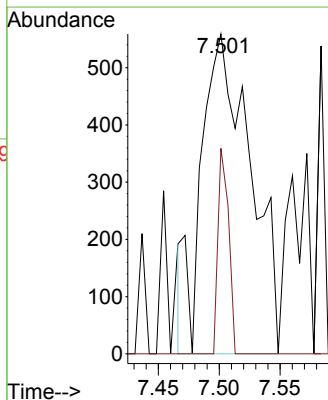
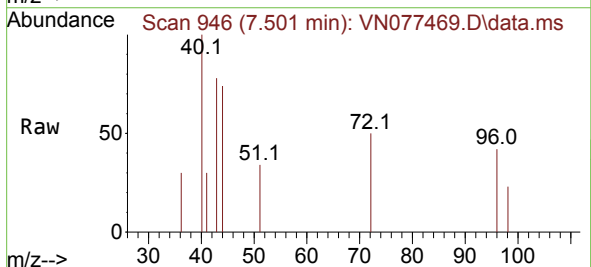


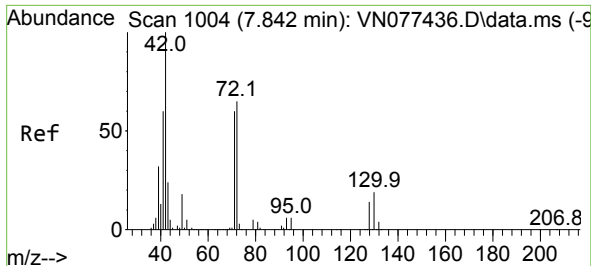
Tgt Ion:	84	Resp:	3303
Ion	Ratio	Lower	Upper
84	100		
49	74.9	79.7	119.5#
51	75.9	25.2	37.8#
86	16.6	53.3	79.9#



#25
2-Butanone
Concen: 0.486 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

Tgt Ion:	43	Resp:	1564
Ion	Ratio	Lower	Upper
43	100		
72	64.2	30.2	45.2#

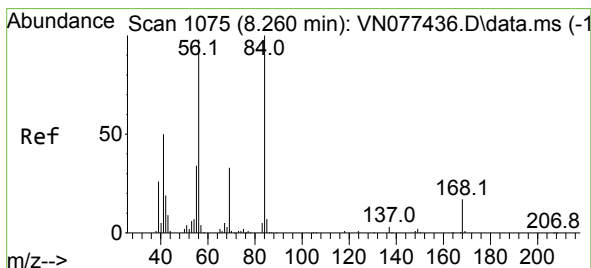
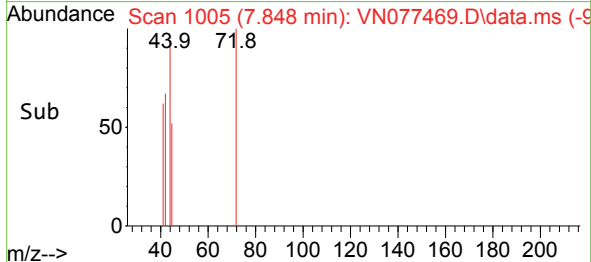
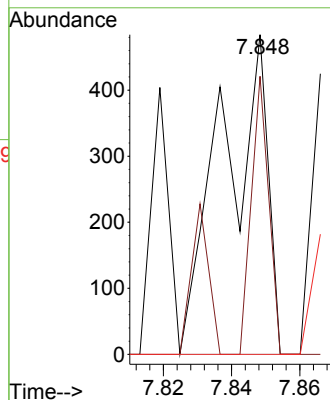
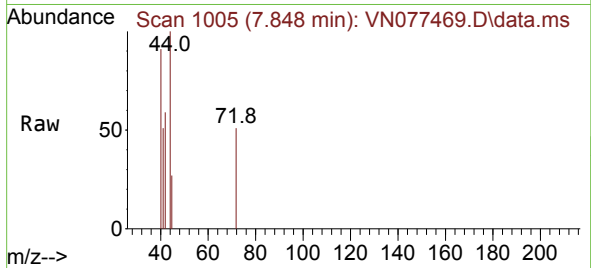




#29
Tetrahydrofuran
Concen: 0.221 ug/l
RT: 7.848 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

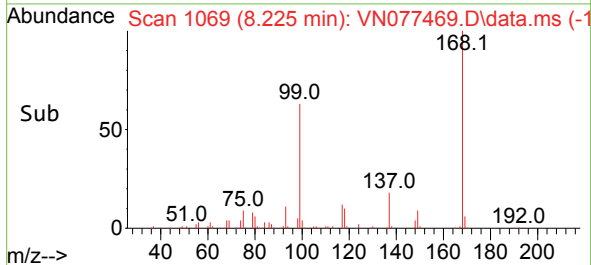
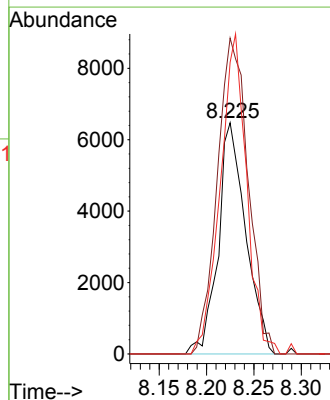
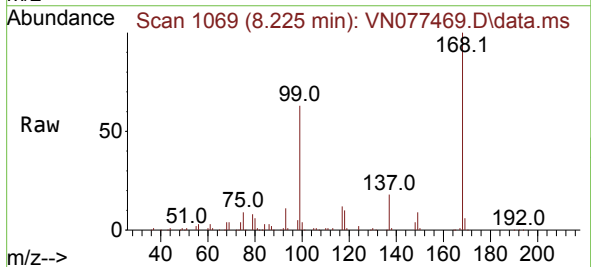
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VN0425WBL01

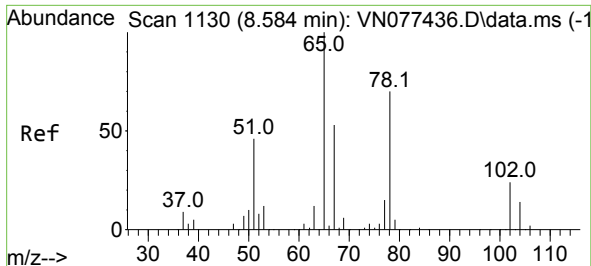
Tgt Ion: 42 Resp: 445
Ion Ratio Lower Upper
42 100
72 33.5 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.295 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.035 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

Tgt Ion: 56 Resp: 13071
Ion Ratio Lower Upper
56 100
69 136.6 26.8 40.2#
84 126.1 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 49.985 ug/l

RT: 8.578 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Instrument :

MSVOA_N

ClientSampleId :

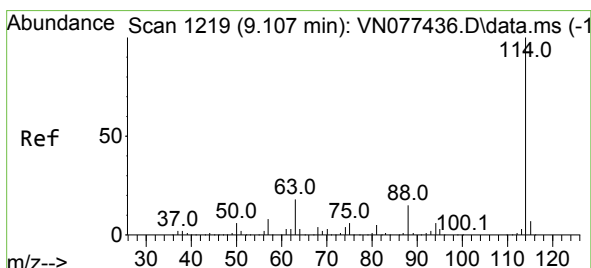
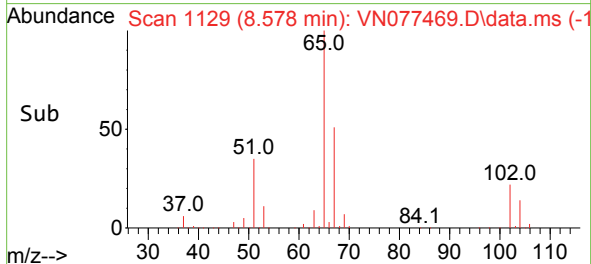
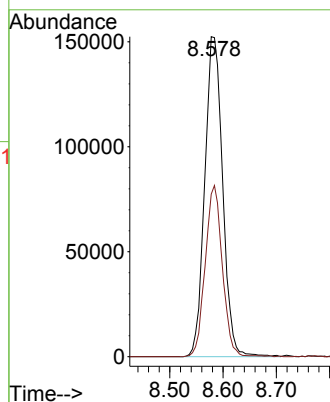
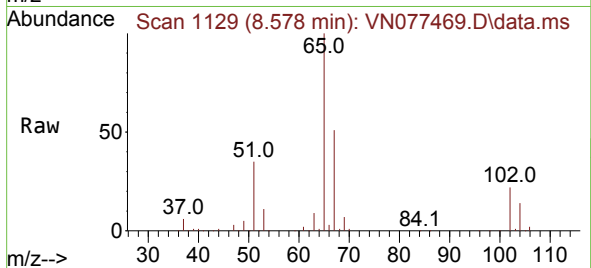
VN0425WBL01

Tgt Ion: 65 Resp: 356267

Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.101 min Scan# 1218

Delta R.T. -0.006 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

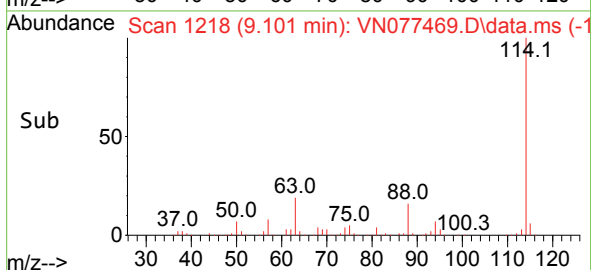
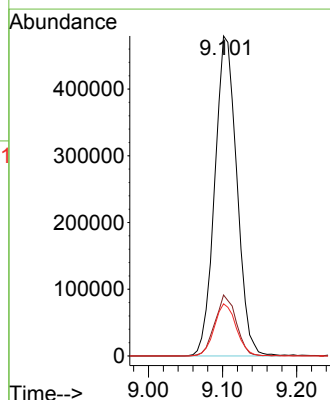
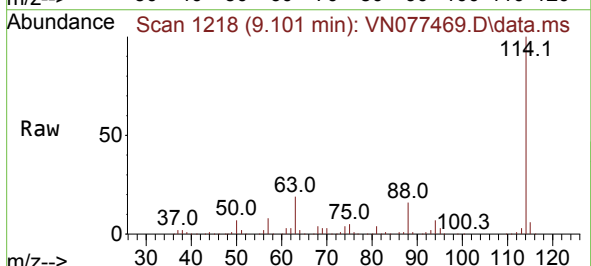
Tgt Ion: 114 Resp: 992597

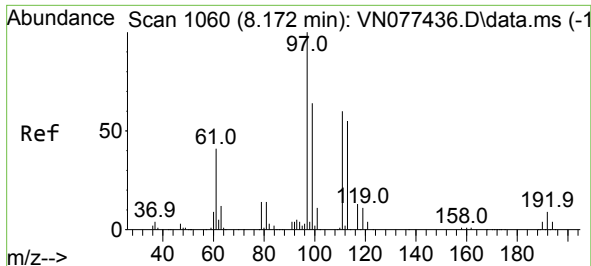
Ion Ratio Lower Upper

114 100

63 19.0 0.0 36.4

88 16.3 0.0 30.6

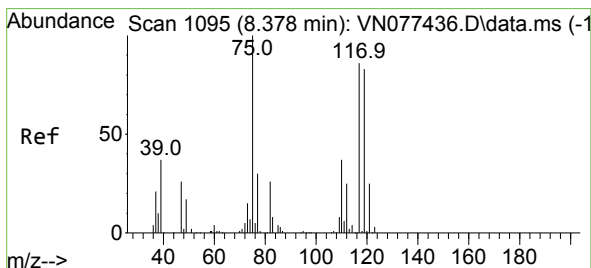
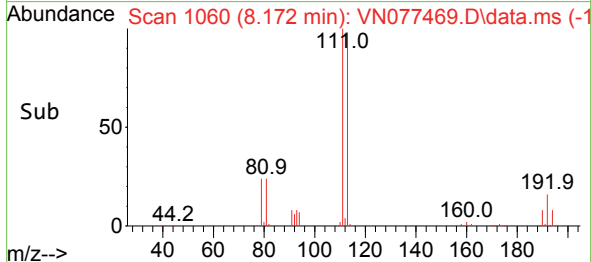
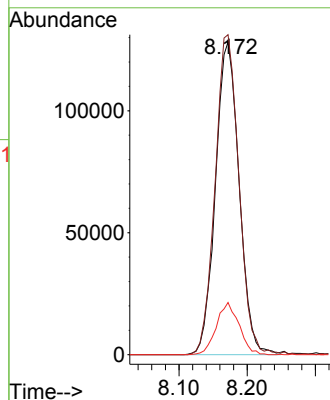
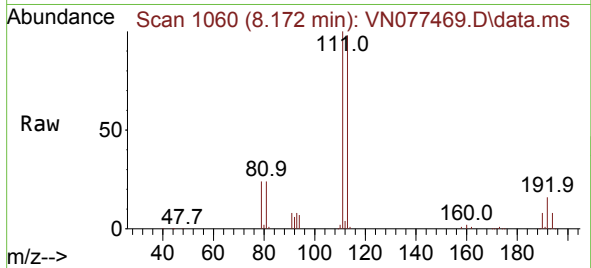




#35
 Dibromofluoromethane
 Concen: 51.861 ug/l
 RT: 8.172 min Scan# 1060
 Delta R.T. 0.000 min
 Lab File: VN077469.D
 Acq: 25 Apr 2023 14:06

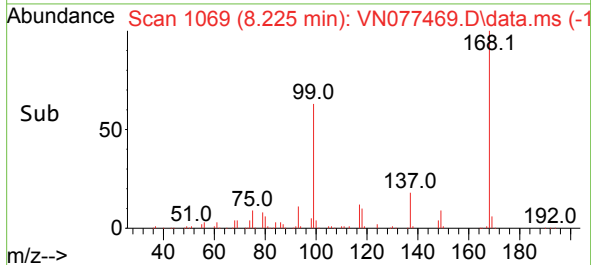
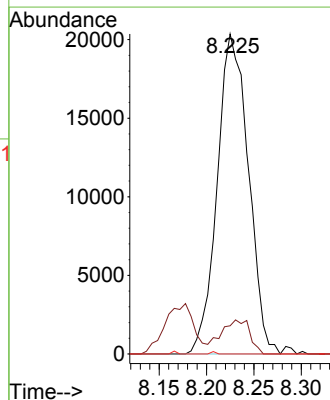
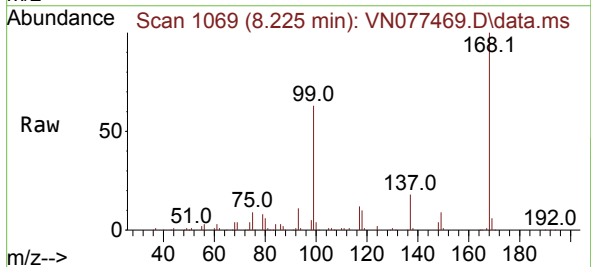
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0425WBL01

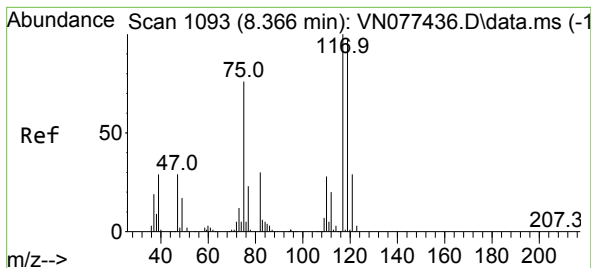
Tgt Ion:113 Resp: 309400
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.6 123.8
 192 16.0 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 5.401 ug/l
 RT: 8.225 min Scan# 1069
 Delta R.T. -0.153 min
 Lab File: VN077469.D
 Acq: 25 Apr 2023 14:06

Tgt Ion: 75 Resp: 46554
 Ion Ratio Lower Upper
 75 100
 110 9.8 19.1 57.3#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.208 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.141 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

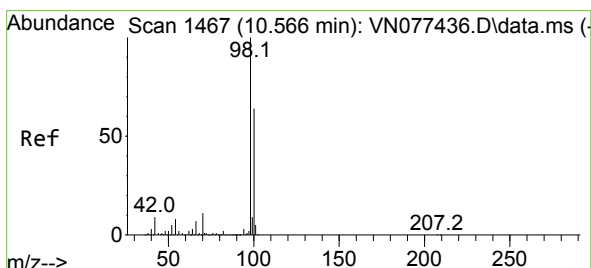
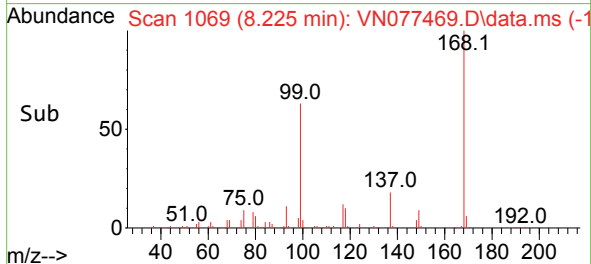
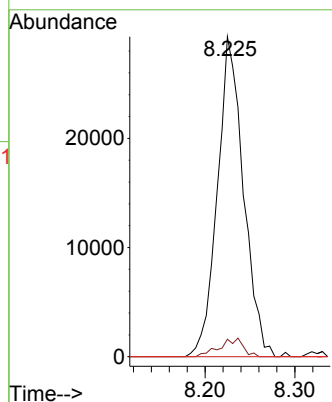
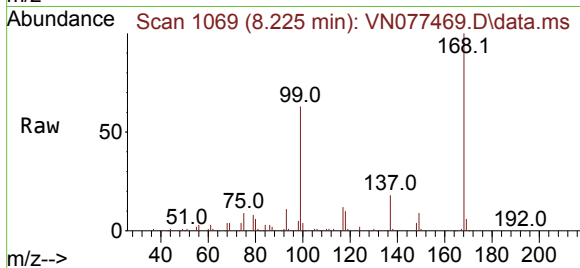
Tgt Ion:117 Resp: 59038

Ion Ratio Lower Upper

117 100

119 5.5 77.3 115.9#

121 0.0 23.3 34.9#



#50

Toluene-d8

Concen: 53.255 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN077469.D

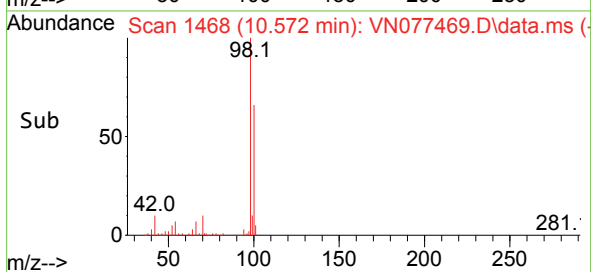
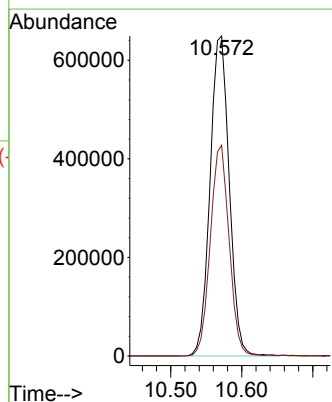
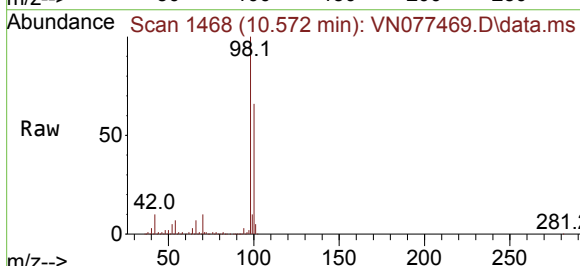
Acq: 25 Apr 2023 14:06

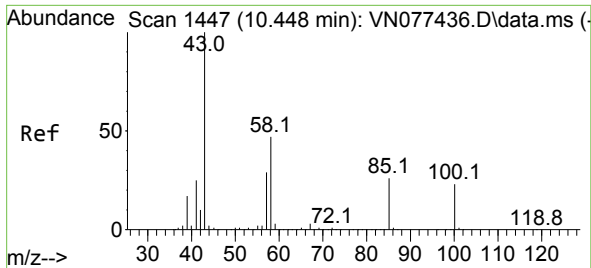
Tgt Ion: 98 Resp: 1217679

Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0

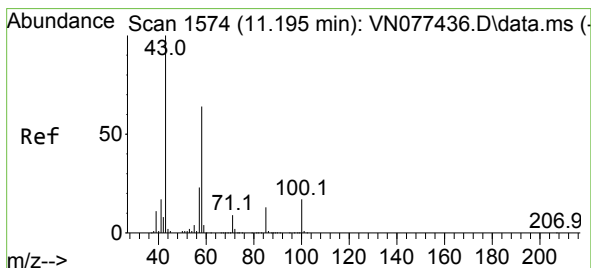
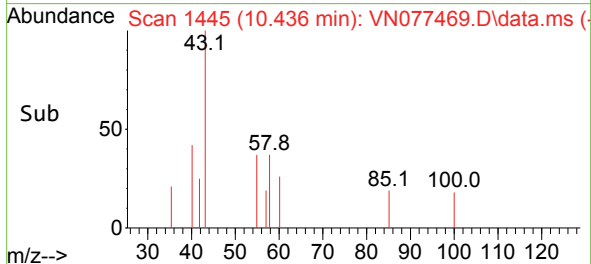
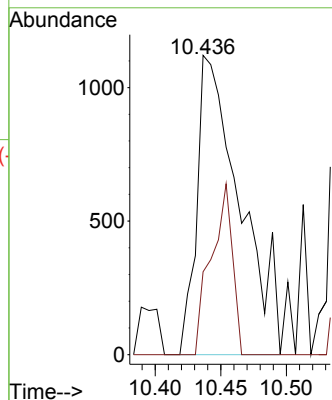
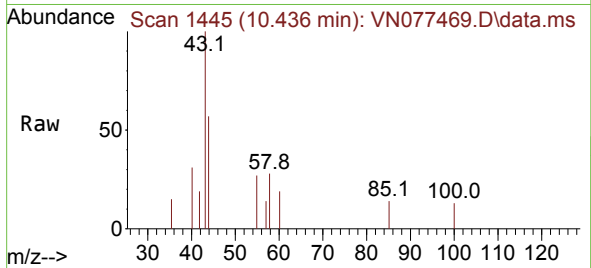




#51
4-Methyl-2-Pentanone
Concen: 0.385 ug/l
RT: 10.436 min Scan# 1445
Delta R.T. -0.012 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

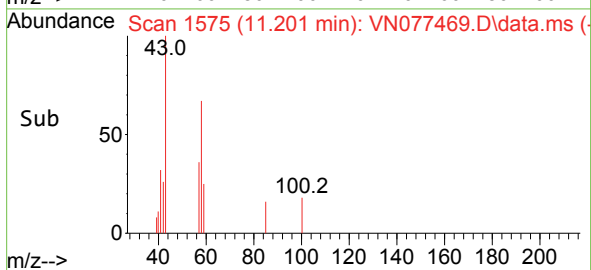
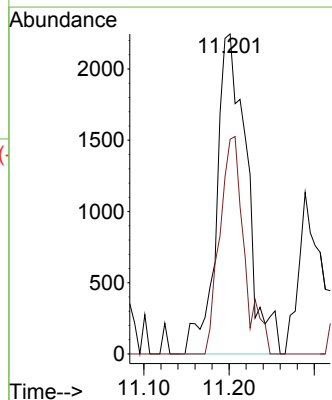
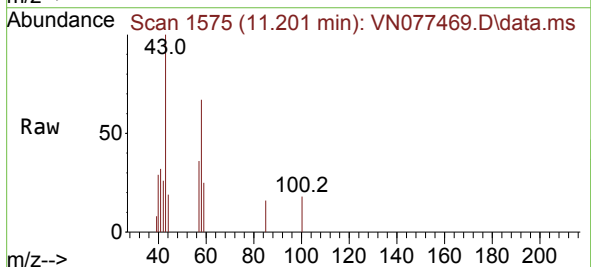
Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

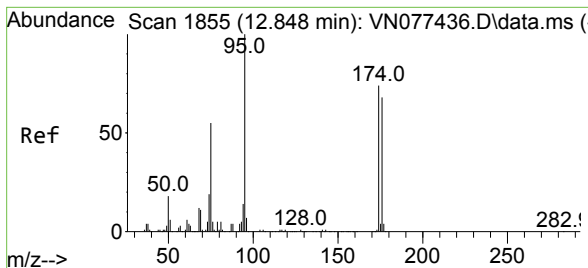
Tgt Ion: 43 Resp: 2558
Ion Ratio Lower Upper
43 100
58 28.3 36.6 54.8#



#59
2-Hexanone
Concen: 1.154 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.006 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

Tgt Ion: 43 Resp: 5576
Ion Ratio Lower Upper
43 100
58 54.8 31.7 95.1

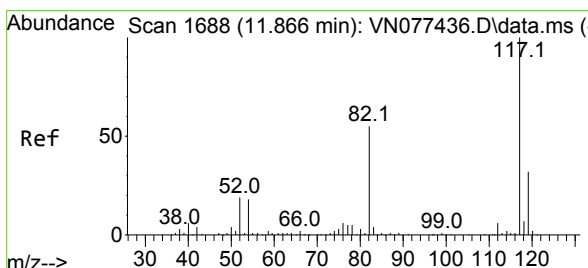
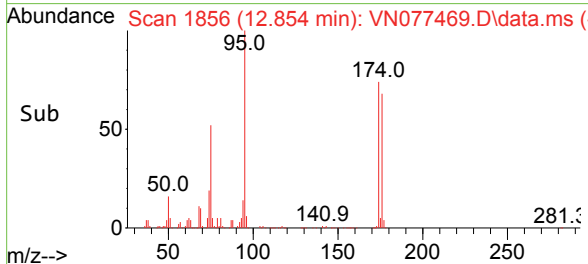
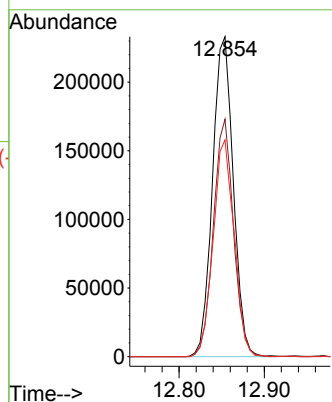
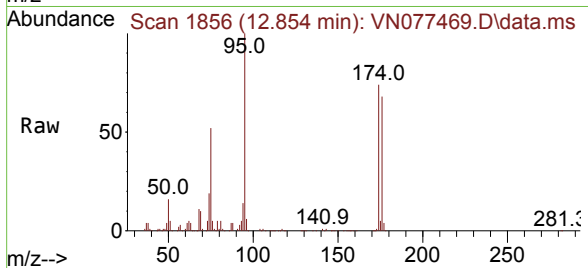




#62
4-Bromofluorobenzene
Concen: 52.753 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

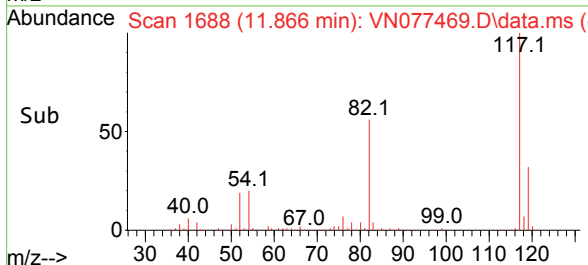
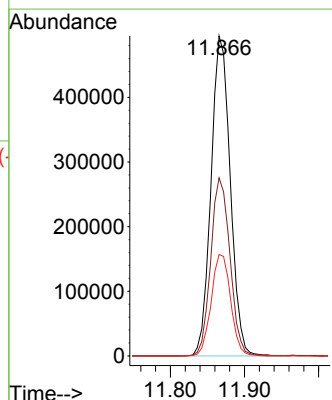
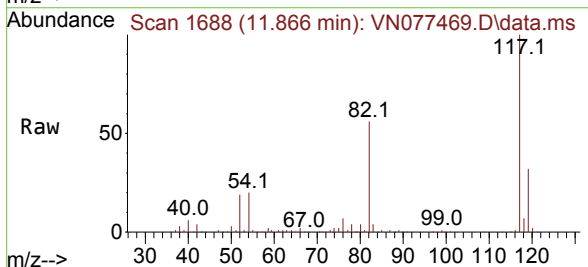
Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

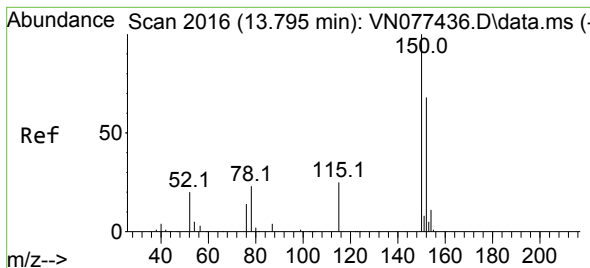
Tgt Ion: 95 Resp: 394635
Ion Ratio Lower Upper
95 100
174 72.0 0.0 143.8
176 68.3 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

Tgt Ion: 117 Resp: 892826
Ion Ratio Lower Upper
117 100
82 55.6 44.0 66.0
119 31.7 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

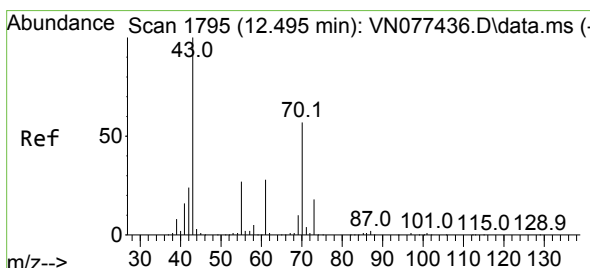
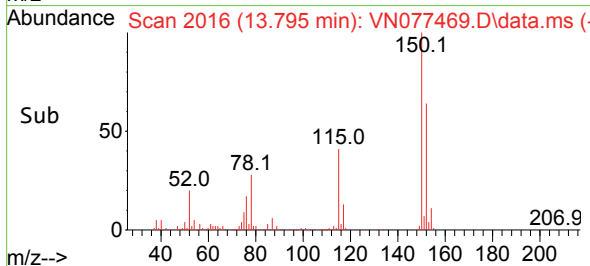
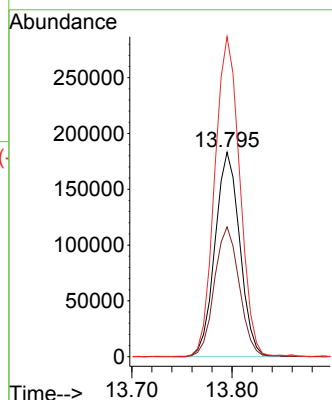
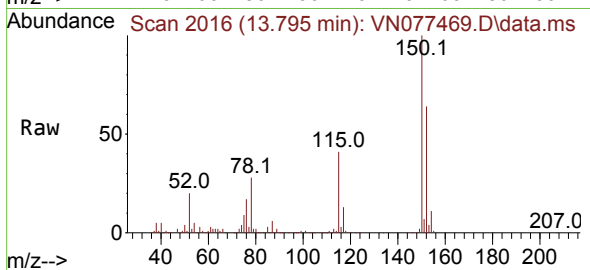
Tgt Ion:152 Resp: 313802

Ion Ratio Lower Upper

152 100

115 64.1 32.3 96.8

150 158.9 0.0 355.8



#74

N-ethyl acetate

Concen: 0.336 ug/l

RT: 12.495 min Scan# 1795

Delta R.T. 0.000 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Tgt Ion: 43 Resp: 2896

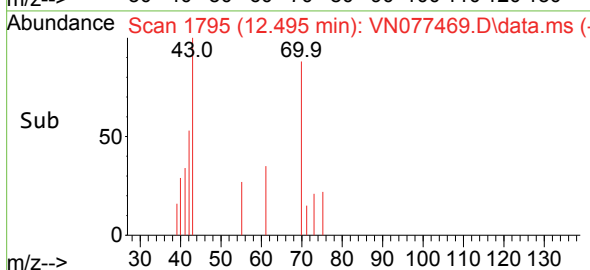
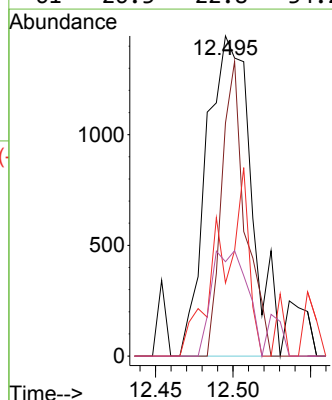
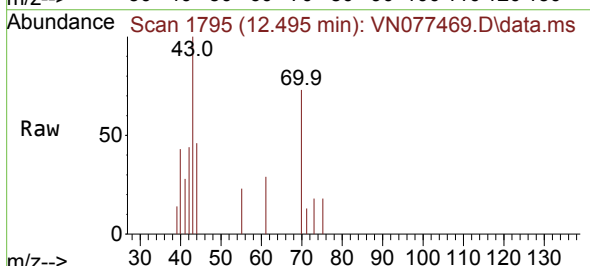
Ion Ratio Lower Upper

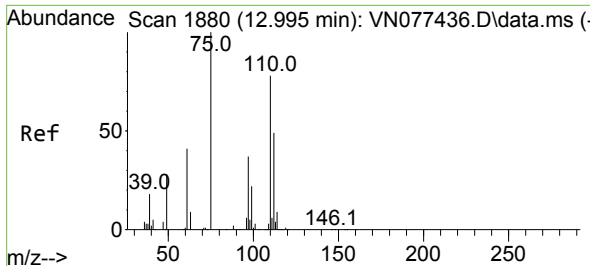
43 100

70 48.9 43.4 65.2

55 37.1 21.4 32.0#

61 26.3 22.8 34.2

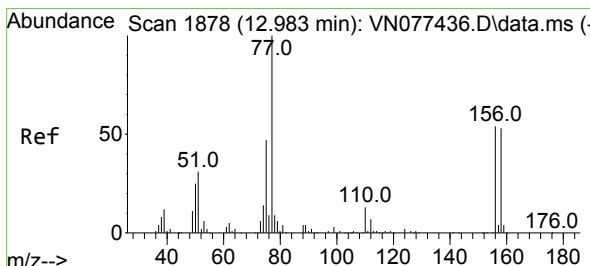
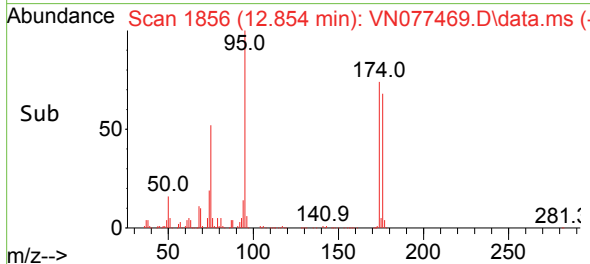
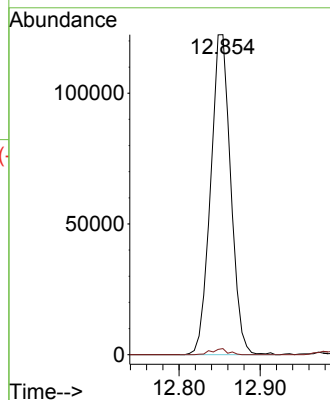
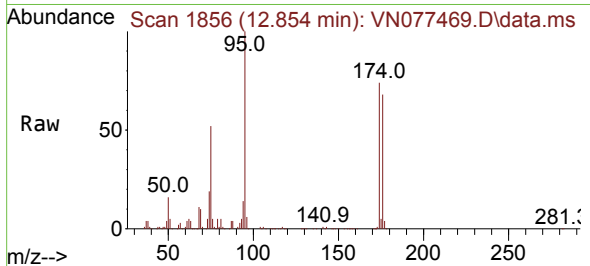




#76
1,2,3-Trichloropropane
Concen: 28.833 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

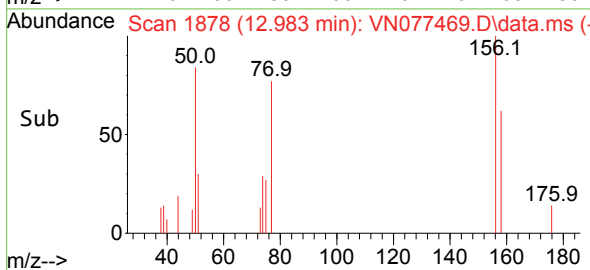
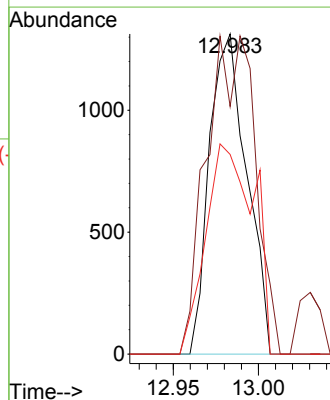
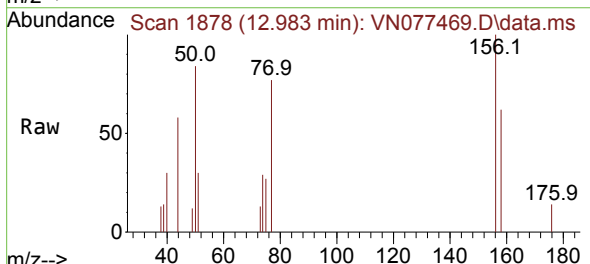
Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

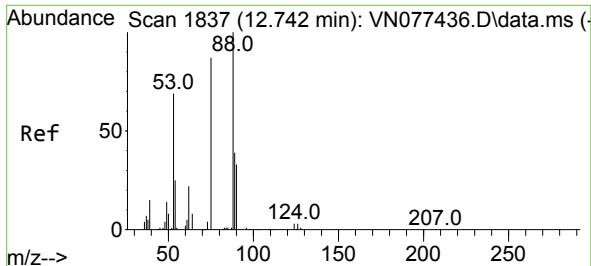
Tgt Ion: 75 Resp: 210398
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#



#77
Bromobenzene
Concen: 0.316 ug/l
RT: 12.983 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

Tgt Ion: 156 Resp: 2003
Ion Ratio Lower Upper
156 100
77 129.5 107.7 323.3
158 84.6 48.4 145.3

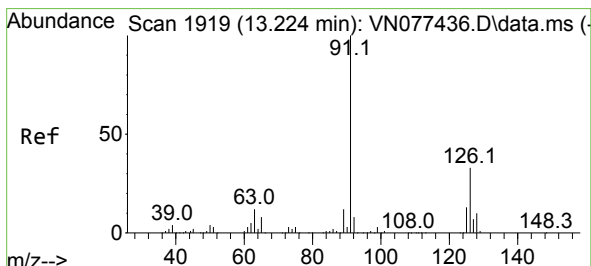
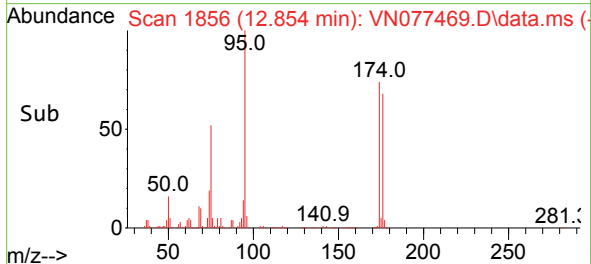
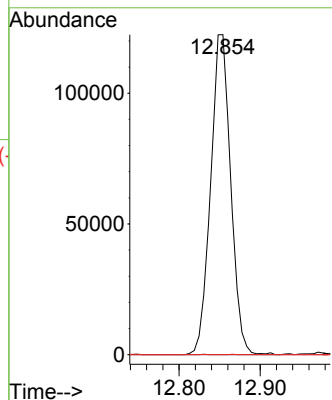
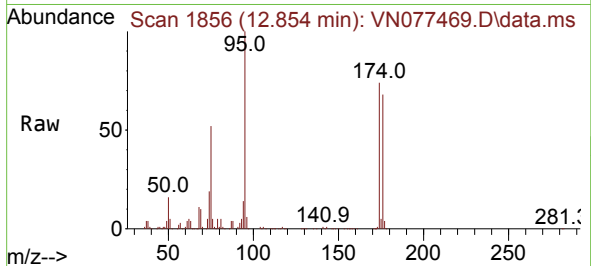




#81
trans-1,4-Dichloro-2-butene
Concen: 81.458 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

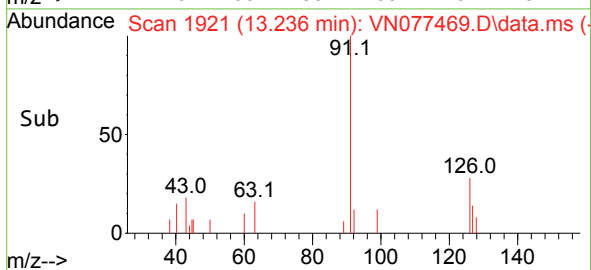
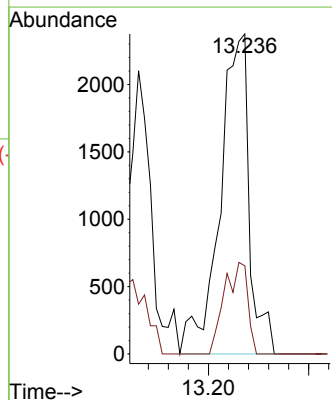
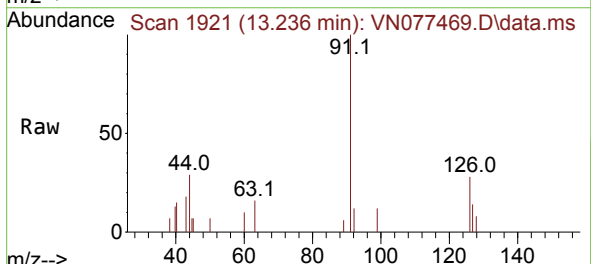
Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

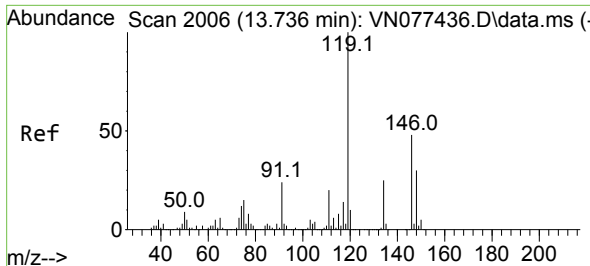
Tgt Ion: 75 Resp: 210398
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#82
4-Chlorotoluene
Concen: 0.260 ug/l
RT: 13.236 min Scan# 1921
Delta R.T. 0.012 min
Lab File: VN077469.D
Acq: 25 Apr 2023 14:06

Tgt Ion: 91 Resp: 4830
Ion Ratio Lower Upper
91 100
126 22.7 16.7 50.0

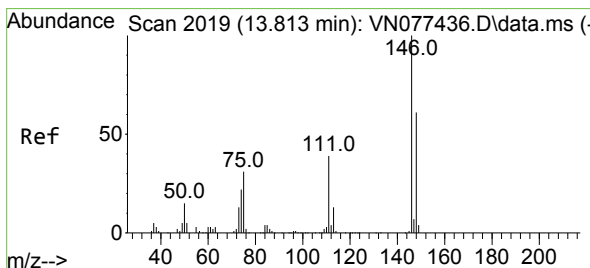
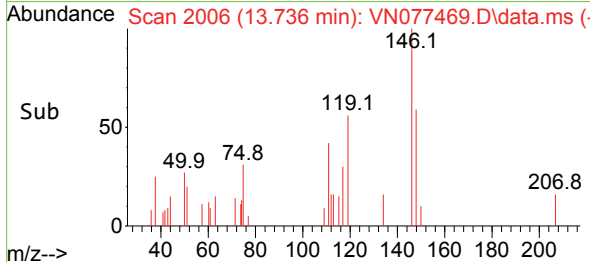
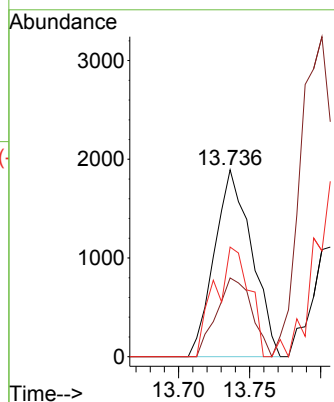
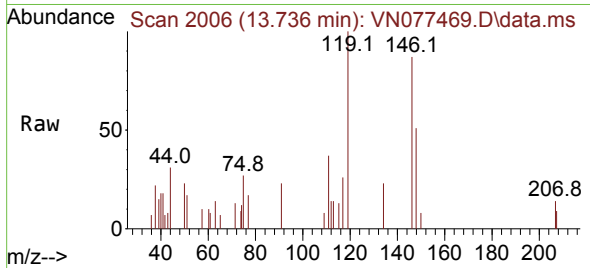




#87
 1,3-Dichlorobenzene
 Concen: 0.307 ug/l
 RT: 13.736 min Scan# 2006
 Delta R.T. 0.000 min
 Lab File: VN077469.D
 Acq: 25 Apr 2023 14:06

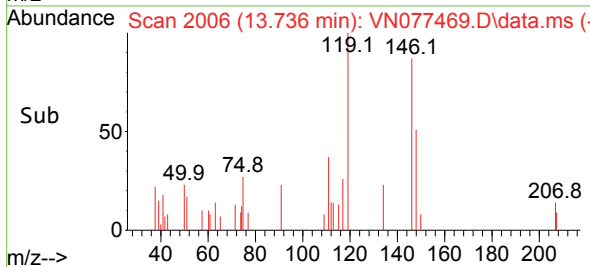
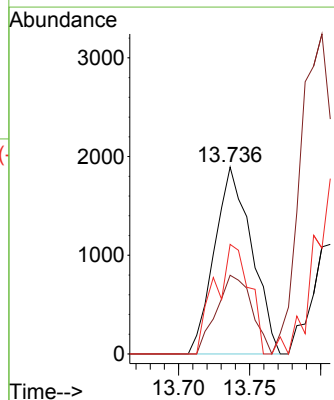
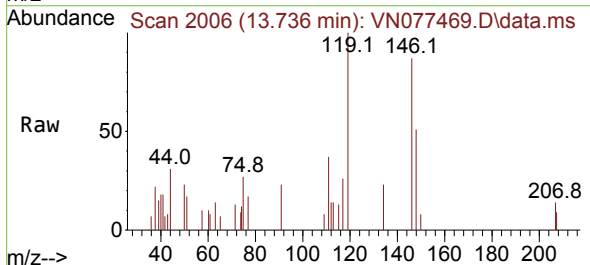
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0425WBL01

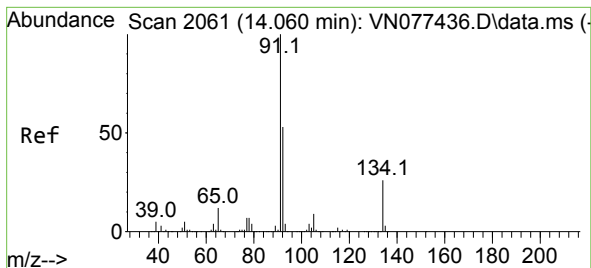
Tgt Ion:	146	Resp:	3462
Ion Ratio	Lower	Upper	
146	100		
111	39.8	22.1	66.3
148	54.0	32.0	96.0



#88
 1,4-Dichlorobenzene
 Concen: 0.311 ug/l
 RT: 13.736 min Scan# 2006
 Delta R.T. -0.076 min
 Lab File: VN077469.D
 Acq: 25 Apr 2023 14:06

Tgt Ion:	146	Resp:	3462
Ion Ratio	Lower	Upper	
146	100		
111	39.8	20.6	61.8
148	54.0	31.6	94.8





#89

n-Butylbenzene

Concen: 0.284 ug/l

RT: 14.060 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

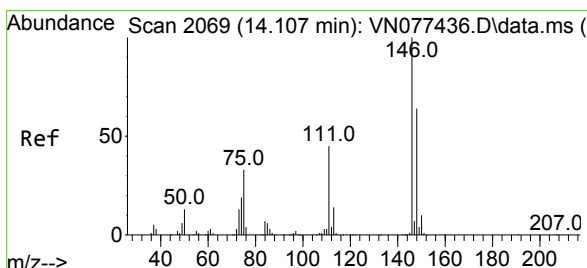
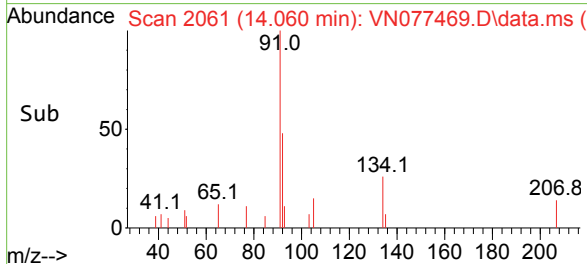
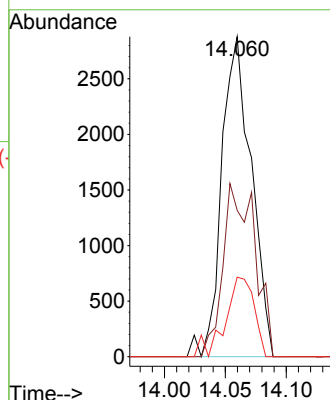
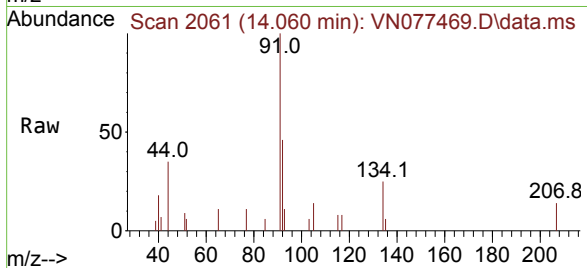
Tgt Ion: 91 Resp: 4873

Ion Ratio Lower Upper

91 100

92 58.2 26.4 79.0

134 24.2 12.6 37.6



#91

1,2-Dichlorobenzene

Concen: 0.354 ug/l

RT: 14.113 min Scan# 2070

Delta R.T. 0.006 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

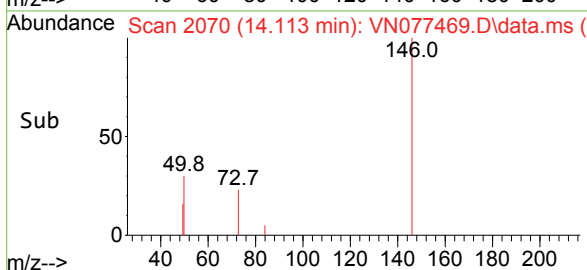
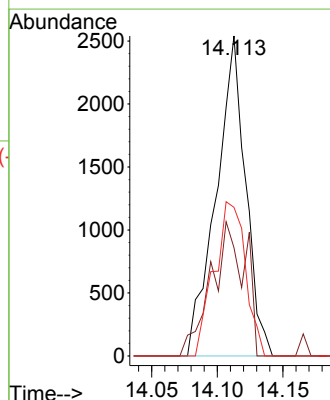
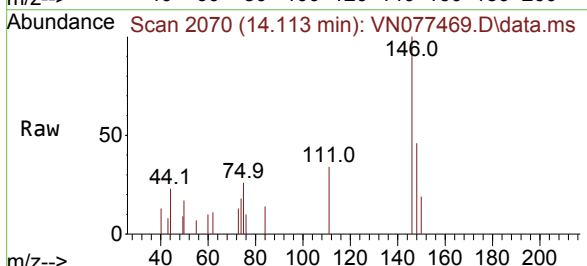
Tgt Ion: 146 Resp: 3960

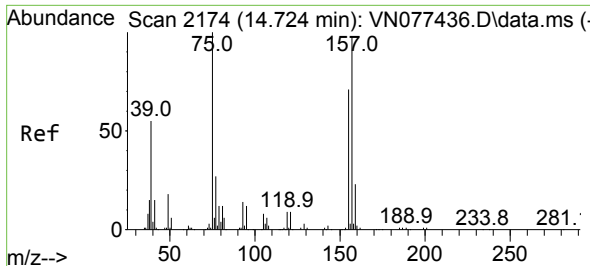
Ion Ratio Lower Upper

146 100

111 48.2 22.0 66.0

148 51.1 31.8 95.3

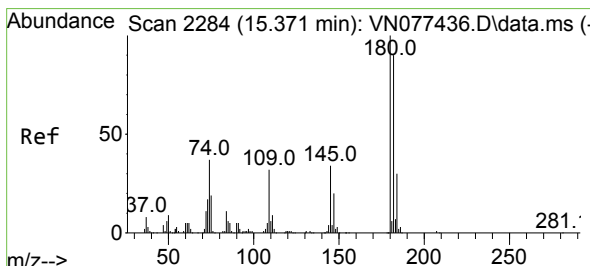
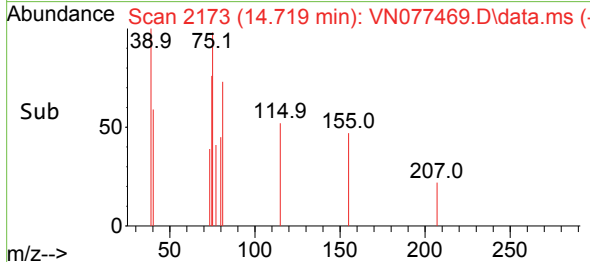
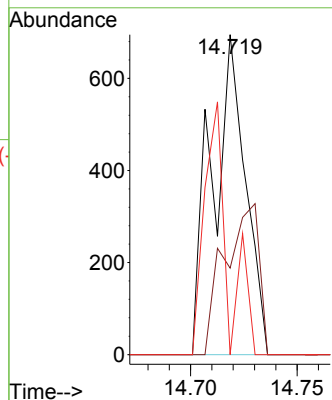
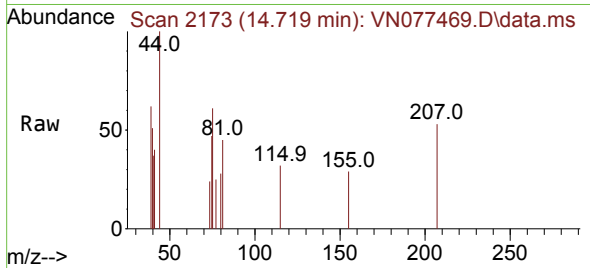




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.447 ug/l
 RT: 14.719 min Scan# 2173
 Delta R.T. -0.005 min
 Lab File: VN077469.D
 Acq: 25 Apr 2023 14:06

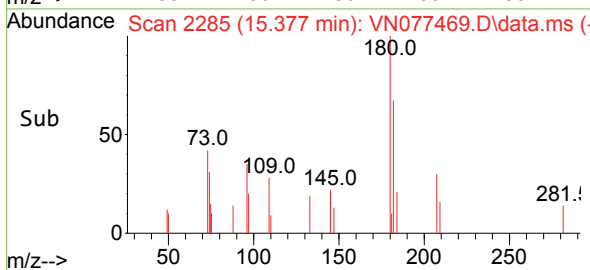
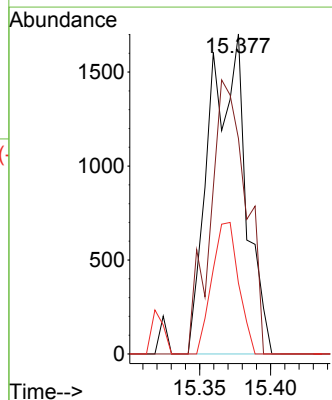
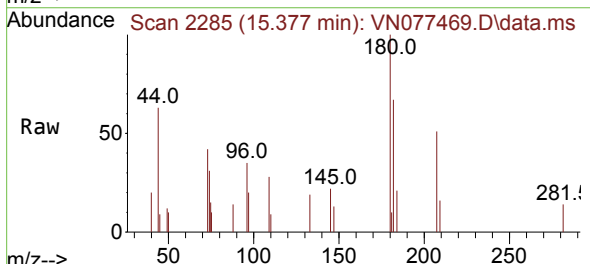
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0425WBL01

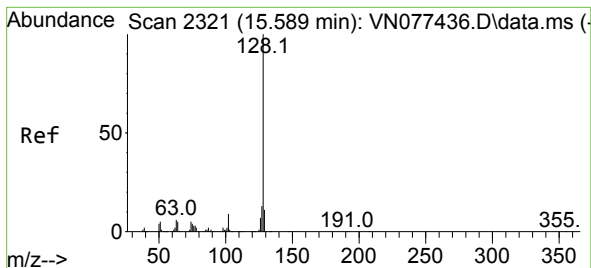
Tgt Ion: 75 Resp: 757
 Ion Ratio Lower Upper
 75 100
 155 48.7 39.1 117.2
 157 54.8 50.3 150.9



#93
 1,2,4-Trichlorobenzene
 Concen: 2.111 ug/l
 RT: 15.377 min Scan# 2285
 Delta R.T. 0.006 min
 Lab File: VN077469.D
 Acq: 25 Apr 2023 14:06

Tgt Ion: 180 Resp: 3030
 Ion Ratio Lower Upper
 180 100
 182 84.2 46.1 138.2
 145 30.0 16.6 49.8





#95

Naphthalene

Concen: 2.708 ug/l

RT: 15.589 min Scan# 2321

Delta R.T. 0.000 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

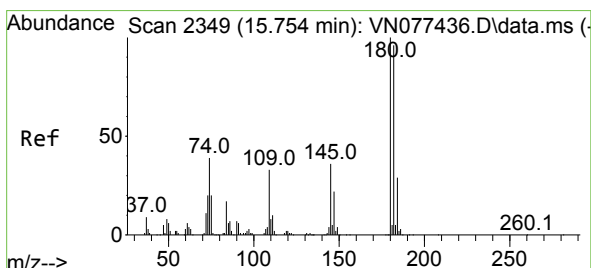
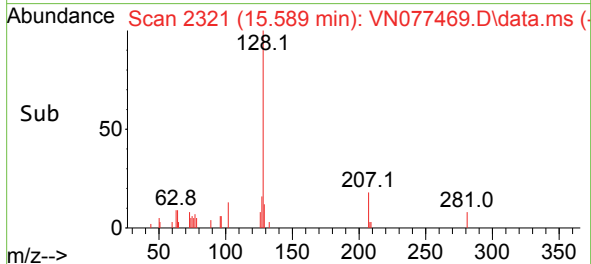
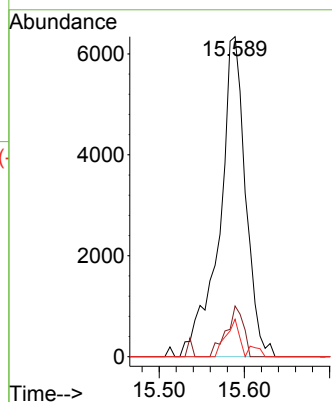
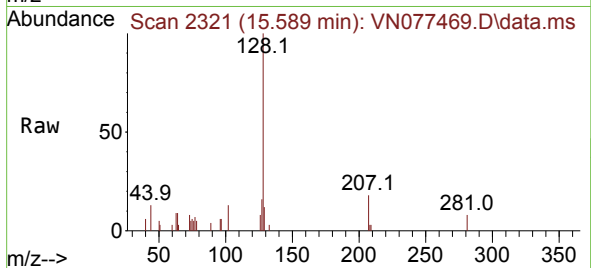
Tgt Ion:128 Resp: 13422

Ion Ratio Lower Upper

128 100

127 10.4 10.0 15.0

129 6.0 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 2.056 ug/l

RT: 15.754 min Scan# 2349

Delta R.T. -0.000 min

Lab File: VN077469.D

Acq: 25 Apr 2023 14:06

Tgt Ion:180 Resp: 3341

Ion Ratio Lower Upper

180 100

182 108.9 46.2 138.6

145 24.8 17.5 52.6

