



Lecture 5 CH101 A1 (MWF 9 am) Fall 2016		Copyright © 2016 Dan Dill dan@bu.edu
	Malagular maga anastra	
	Molecular mass spectra	
BOSTON		
UNIVERSITY		











Element	Isotope	Relative Abundance	Exact Mass	Isotope	Relative Abundance	Exact Mass
carbon	<sup>12</sup> C	98.90%	12.00000	13C	1.10%	13.00335
oxygen	<sup>16</sup> 0	99.76%	15.99491	180	0.20%	17.99916
nitrogen	<sup>14</sup> N	99.63%	14.00307	<sup>15</sup> N	0.37%	15.00011
hydrogen	<sup>1</sup> H	99.99%	1.00783	<sup>2</sup> H	0.01%	2.01410
chlorine	<sup>35</sup> Cl	75.78%	34.968852	37CL	24.20%	36.965902
bromine	<sup>79</sup> Br	50.69%	78.918337	<sup>81</sup> Br	49.31%	80.916291
N and H	each hav	50.69% e a <mark>one</mark> imp otope	78.918337	ope	49.31%	80.91629