

Question	Answer	Marks	Guidance																																			
3 (a) (iv)	<p style="text-align: center;"><b><sup>1</sup>H NMR spectrum for methionine</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of proton(s)</th> <th>Chemical shift</th> <th>Splitting pattern</th> <th>Relative peak area</th> <th></th> </tr> </thead> <tbody> <tr> <td>NH<sub>2</sub></td> <td>4.5</td> <td>triplet</td> <td>2</td> <td></td> </tr> <tr> <td>H-C-β-</td> <td>2.1</td> <td>triplet</td> <td>3</td> <td>*</td> </tr> <tr> <td>-β-CH<sub>2</sub>-</td> <td>2.4</td> <td>triplet</td> <td>2</td> <td>*</td> </tr> <tr> <td>β-CH<sub>2</sub>-CH<sub>3</sub></td> <td>0.7-2.0</td> <td>multiplet OR quartet</td> <td>2</td> <td>*</td> </tr> <tr> <td>CHNH<sub>2</sub></td> <td>2.0-3.0</td> <td>triplet</td> <td>1</td> <td>*</td> </tr> <tr> <td>OH</td> <td>11-12</td> <td>triplet</td> <td>1</td> <td>*</td> </tr> </tbody> </table> <p>Rows can be in any order  <b>IGNORE</b> extra rows            Do not need to show bonds between atoms</p>	Type of proton(s)	Chemical shift	Splitting pattern	Relative peak area		NH <sub>2</sub>	4.5	triplet	2		H-C-β-	2.1	triplet	3	*	-β-CH <sub>2</sub> -	2.4	triplet	2	*	β-CH <sub>2</sub> -CH <sub>3</sub>	0.7-2.0	multiplet OR quartet	2	*	CHNH <sub>2</sub>	2.0-3.0	triplet	1	*	OH	11-12	triplet	1	*	<b>Total</b> 14	<p><b>5</b></p> <p><b>ALLOW</b> any value within ranges given for δ (ppm) on the Data Sheet</p> <p><b>IGNORE</b> reference to NH<sub>2</sub> signals (given as example)</p> <p><b>GUIDANCE</b></p> <ul style="list-style-type: none"> <li>• mark by rows</li> <li>• <b>ALL</b> data in row must be correct for each mark</li> <li>• <b>ALLOW</b> 'triplet of doublets' or 'doublet of triplets' for multiplet/quartet signal from -CH<sub>2</sub>CH<sub>2</sub>-</li> </ul> <p><b>ALLOW</b> quadruplet</p> <p><b>ALLOW</b> a response that implies a single peak <b>OR</b> 'no splitting'</p> <p><b>ALLOW</b> a response that implies a splitting into three for a triplet/into four for a quartet</p> <p><b>Clear and unambiguous identification of the protons</b> (when more than one type is present) other than by position number <b>should be credited</b></p> <p>eg for CHNH<sub>2</sub> could be HCOO or CHN or HCN or CH<sub>2</sub>CH</p> <p>eg for β-CH<sub>2</sub>-CH<sub>3</sub> could be CH<sub>2</sub>CH(NH<sub>2</sub>) or CO<sub>2</sub>C or CH<sub>2</sub>CH<sub>2</sub> or RCH<sub>2</sub>R or RCHR</p> <p>eg 'OH between COOH and NH<sub>2</sub>' <b>OR</b> identification by number labels on chemical structures</p>
Type of proton(s)	Chemical shift	Splitting pattern	Relative peak area																																			
NH <sub>2</sub>	4.5	triplet	2																																			
H-C-β-	2.1	triplet	3	*																																		
-β-CH <sub>2</sub> -	2.4	triplet	2	*																																		
β-CH <sub>2</sub> -CH <sub>3</sub>	0.7-2.0	multiplet OR quartet	2	*																																		
CHNH <sub>2</sub>	2.0-3.0	triplet	1	*																																		
OH	11-12	triplet	1	*																																		

# F324 June 2014 Unofficial Markscheme

**Sabine Zange**



**F324 June 2014 Unofficial Markscheme:**

## Reviewing **F324 June 2014 Unofficial Markscheme**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**F324 June 2014 Unofficial Markscheme**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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