

Question	Answer	Marks	Guidance																																
3 (a) (iii)	<table><tr><th colspan="4">¹H NMR spectrum for methionine</th></tr><tr><th>Type of proton(s)</th><th>Chemical shift</th><th>Splitting pattern</th><th>Relative peak area</th></tr><tr><td>NH₂</td><td>4.5</td><td>singlet</td><td>2</td></tr><tr><td>H₂C-S-</td><td>2.1</td><td>triplet</td><td>3</td></tr><tr><td>-S-CH₂-</td><td>2.4</td><td>triplet</td><td>2</td></tr><tr><td>S-CH₂-CH₂</td><td>0.7-2.0</td><td>multiplet OR quartet</td><td>2</td></tr><tr><td>CHNH₂</td><td>2.5-3.0</td><td>triplet</td><td>1</td></tr><tr><td>OH</td><td>11-12</td><td>singlet</td><td>1</td></tr></table> Rows can be in any order IGNORE extra rows Do not need to show bonds between atoms	¹ H NMR spectrum for methionine				Type of proton(s)	Chemical shift	Splitting pattern	Relative peak area	NH ₂	4.5	singlet	2	H ₂ C-S-	2.1	triplet	3	-S-CH ₂ -	2.4	triplet	2	S-CH ₂ -CH ₂	0.7-2.0	multiplet OR quartet	2	CHNH ₂	2.5-3.0	triplet	1	OH	11-12	singlet	1	5	ALLOW any value within ranges given for δ (ppm) on the Data Sheet IGNORE reference to NH₂ signals (given as example) GUIDANCE - mark by rows - ALL data in row must be correct for each mark - ALLOW "triplet of doublets" or "doublet of triplets" for multiplet/quartet signal from —CH₂CH₂S— ALLOW quartet ALLOW a response that implies a single peak OR "no splitting" ALLOW a response that implies a splitting into three for a triplet/into four for a quartet Clear and unambiguous identification of the protons (when more than one type is present) other than by position number should be credited eg for CHNH₂ could be HCOO or CHN or HCN or CH₂CH eg for S-CH₂-CH₂ could be CH₂CH(NH₂) or COCH₂C or CH₂CH₂ or RCH₂R or RCH₂R eg "OH between COOH and NH₂" OR identification by number labels on chemical structures
¹ H NMR spectrum for methionine																																			
Type of proton(s)	Chemical shift	Splitting pattern	Relative peak area																																
NH ₂	4.5	singlet	2																																
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	Total	14																																	

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Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Lei Shi'.

F324 June 2014 Unofficial Markscheme:

The Enigmatic Realm of **F324 June 2014 Unofficial Markscheme**: Unleashing the Language is Inner Magic

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