PROTON NMR SPECTRA

Molecule 1:



|  |  |  |
| --- | --- | --- |
| Shift | Relative peak intensity | Splitting |
| 4.1 | 2 | Quartet |
| 2.1 | 3 | Singlet |
| 1.3 | 3 | Triplet |

Molecule 2:



|  |  |  |
| --- | --- | --- |
| Shift | Relative peak intensity | Splitting |
| 2.4 | 2 | Quartet |
| 2.2 | 3 | Singlet |
| 1.1 | 3 | Triplet |

Molecule 3



|  |  |  |
| --- | --- | --- |
| Shift | Relative peak intensity | Splitting |
| 3.6 | 1 | Sextet |
| 2.3 | 1 | Singlet |
| 1.4 | 2 | Pentet |
| 1.2 | 3 | Doublet |
| 0.9 | 3 | Triplet |

Molecule 4



|  |  |  |
| --- | --- | --- |
| Shift | Relative peak intensity | Splitting |
| 11.6 | 1 | Singlet |
| 2.2 | 2 | Triplet |
| 1.9 | 2 | Sextet |
| 1.0 | 3 | Triplet |

Molecule 5



|  |  |  |
| --- | --- | --- |
| Shift | Relative peak intensity | Splitting |
| 9.6 | 1 | Doublet |
| 2.3 | 1 | Octet |
| 1.1 | 6 | Doublet |