

a. Segment 1: "microwaves" as they are the normal method used for ~~transmission~~ ^{transmission through air} and are used with mobile phones.

Segment 2: "~~radio~~" "radio/microwave" again as they need no medium for propagation as they are electromagnetic waves. Good for long ^{distances}

Segment 3: "Coaxial cable" as it is good for long distances and ~~is~~ has little interference from such a sector

Segment 4: "fibre optic" as it will not be interrupted in transmission by electromagnetic "noise" created in ~~city~~ ^{city} areas

b. By Jill using her mobile phone as a source for transmitting data she can work from anywhere she has a signal. This allows her to easily have updated information and saves her using other methods to transmit data. It also allows her company to have continually updated details about Jill's sales.

- e. By having a data dictionary Jill would be able to know what fields she can use in the query and what types of data are available, as the data dictionary provides details on field name, data type, ~~data~~^{field} size and a data description. This would allow Jill to construct her queries much quicker and more efficiently because of the data she would have.