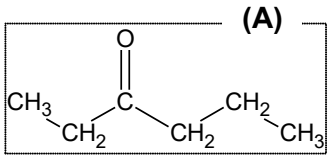
Séquence 2	La spectroscopie IR	EXERCICES

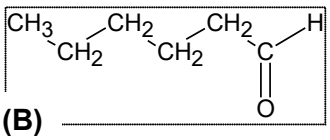
EX1/

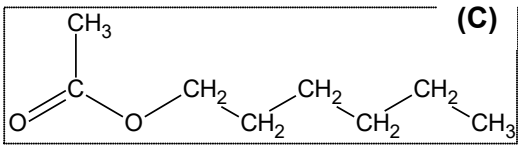
Un laborantin maladroit a mélangé les 3 étiquettes de 3 produits. Il effectue une analyse IR et il doit remettre les étiquettes en place.

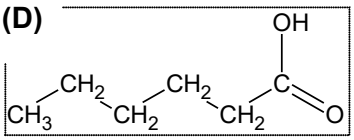
S1 : **hexanal** *(aldéhyde)* ; *S2* : **éthanoate d'hexyle** *(ester)* ; *S3 :* **hexan-1-ol** *(alcool)*

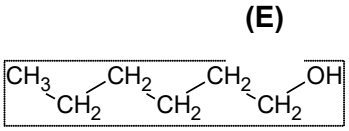
1) Déterminer les groupes fonctionnels présents dans les molécules ci-contre, puis retrouver les formules semi-développées correspondant aux molécules analysées par le laborantin



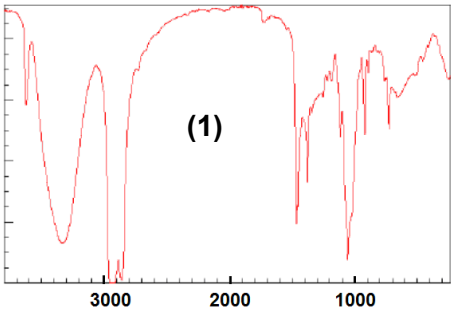


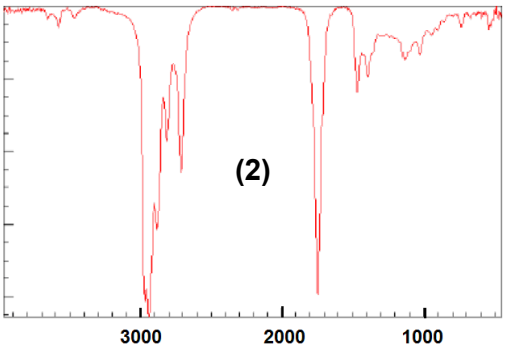


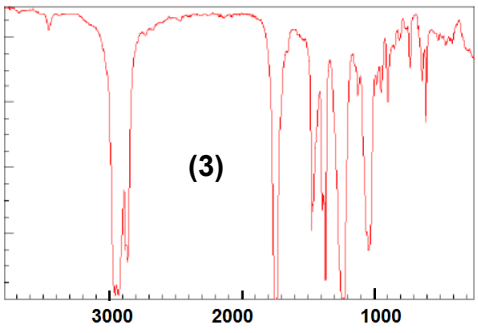




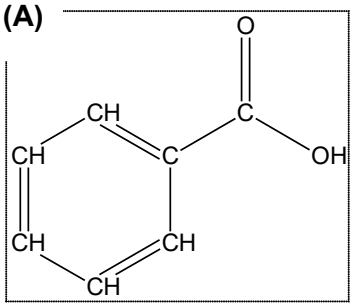
2) Retrouver le spectre IR des 3 molécules parmi ceux présentés ci-dessous

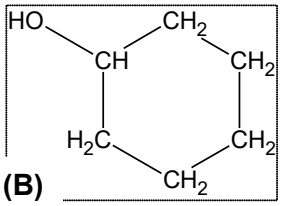


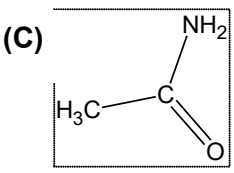


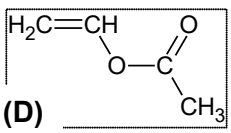


EX2/

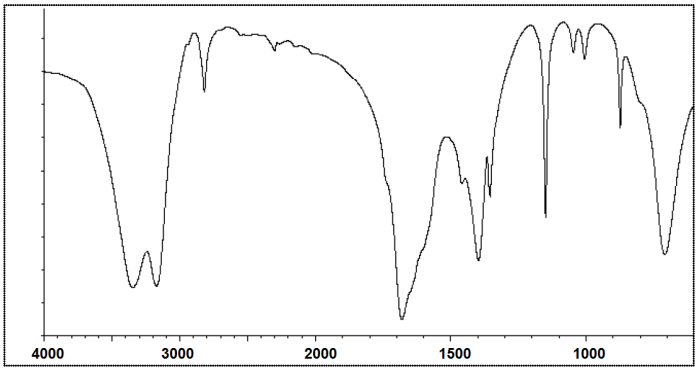








- Donner la formule topologique des molécules
- Entourer et nommer le groupe fonctionnel présent dans chacune des molécules
- Identifier la molécule dont on donne le spectre IR ci-dessous



EX3/

- Associer à chaque spectre IR sa molécule

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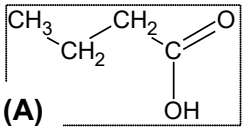

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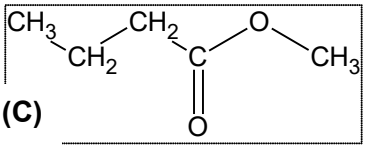

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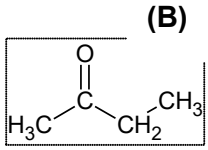

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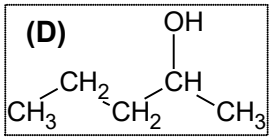

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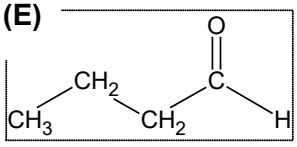

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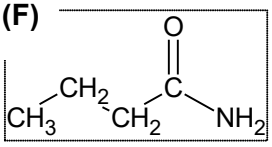

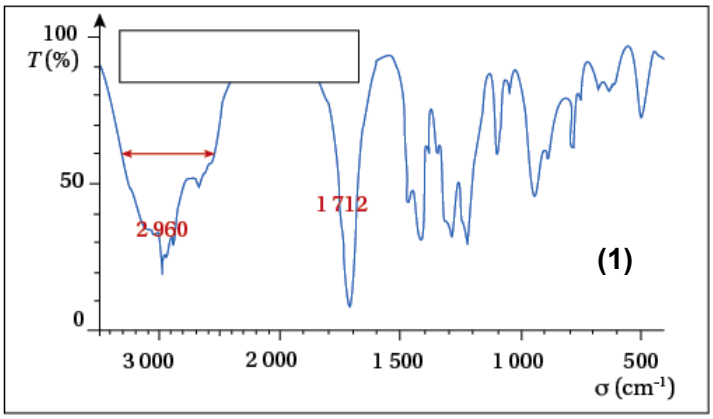

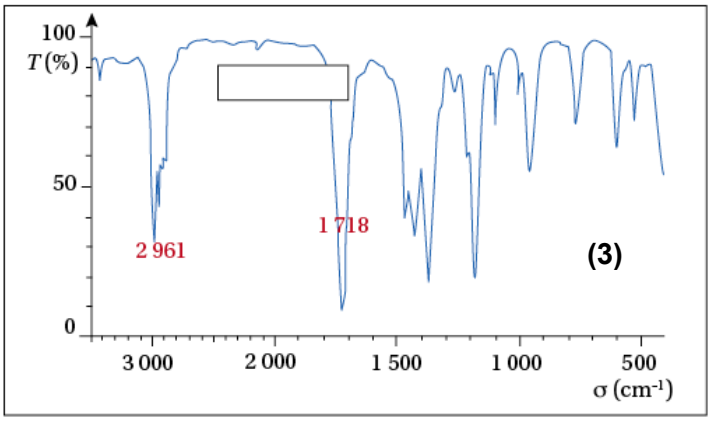

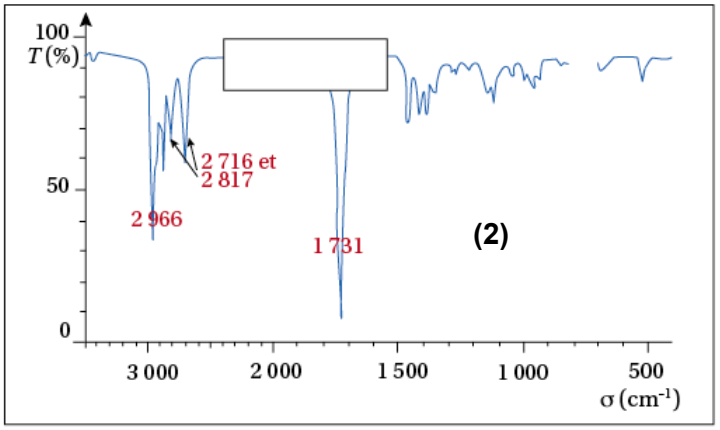

EX4/

- Associer à chaque molécule son spectre IR

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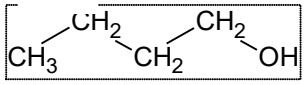

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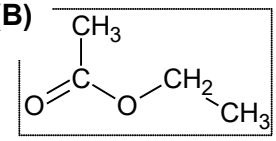

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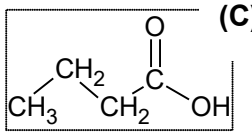
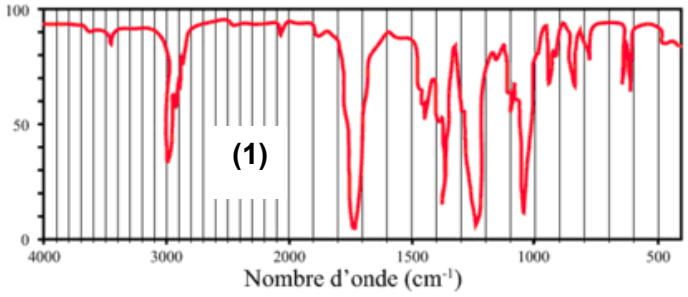
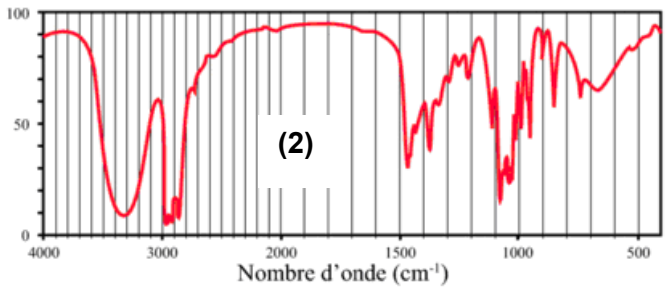
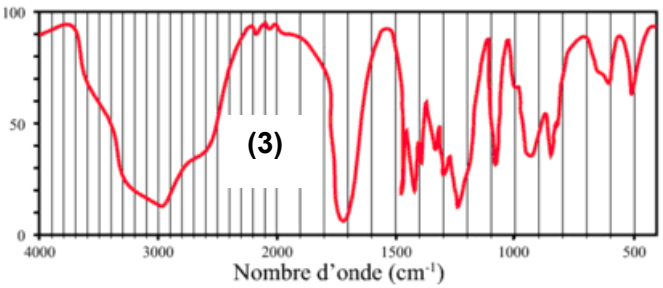


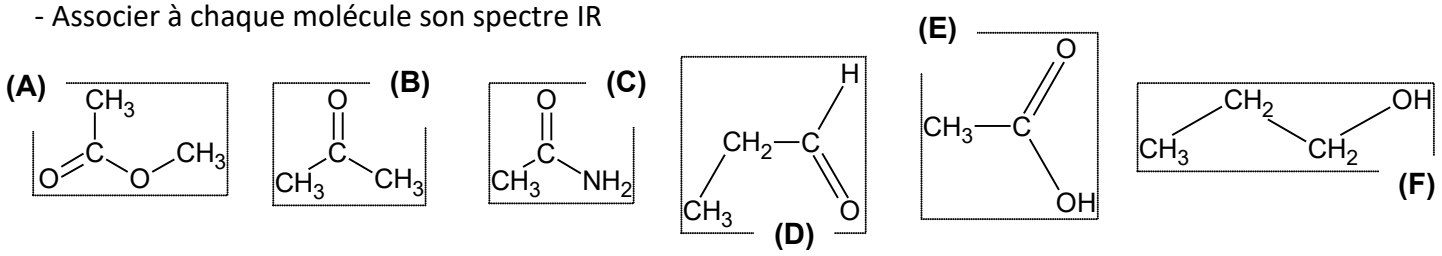


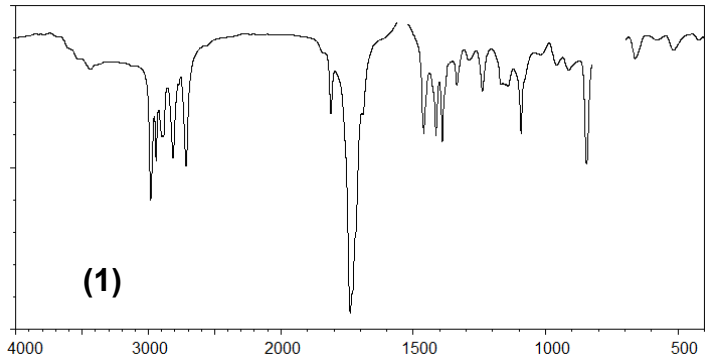


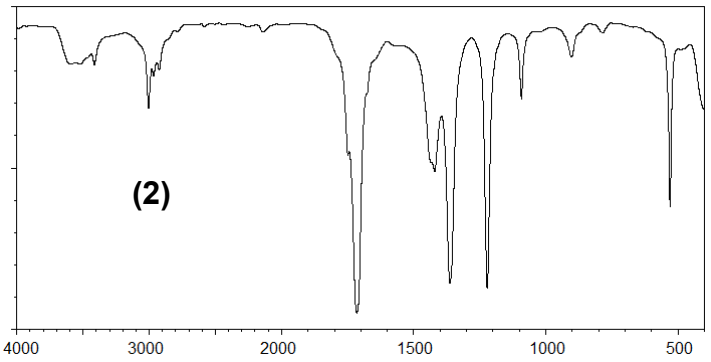


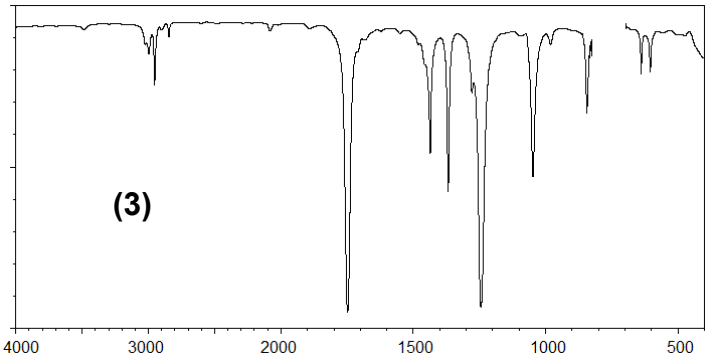
EX5/

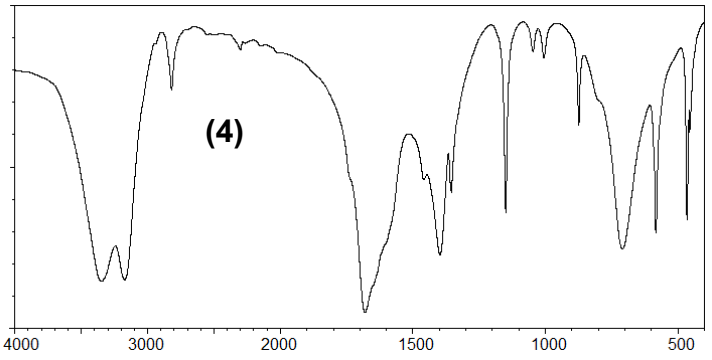
- Associer à chaque molécule son spectre IR

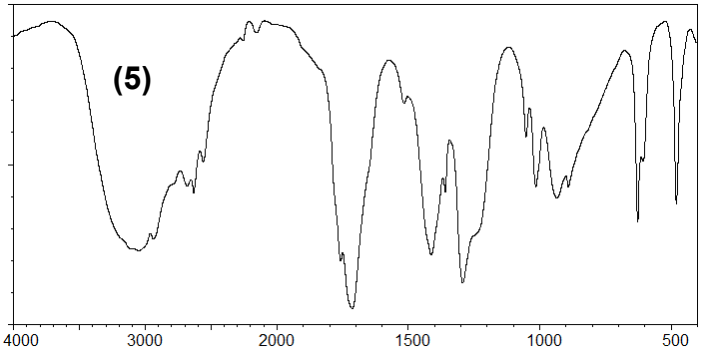


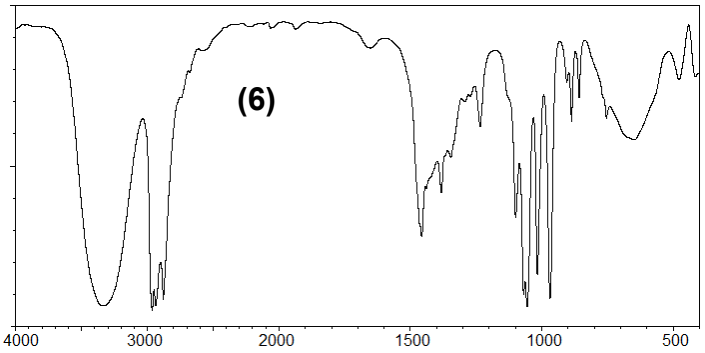






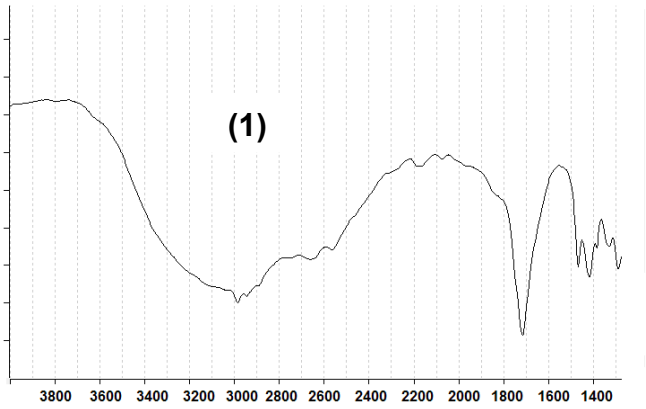


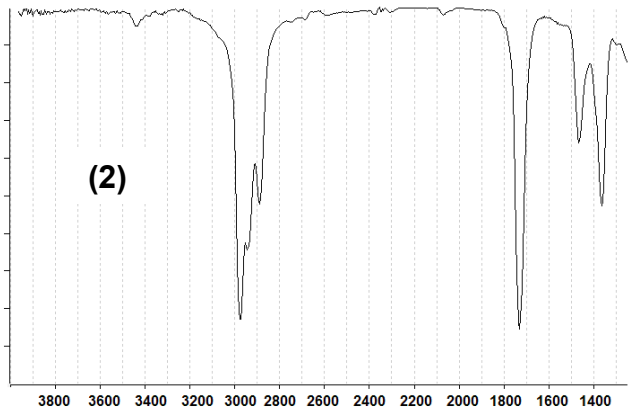


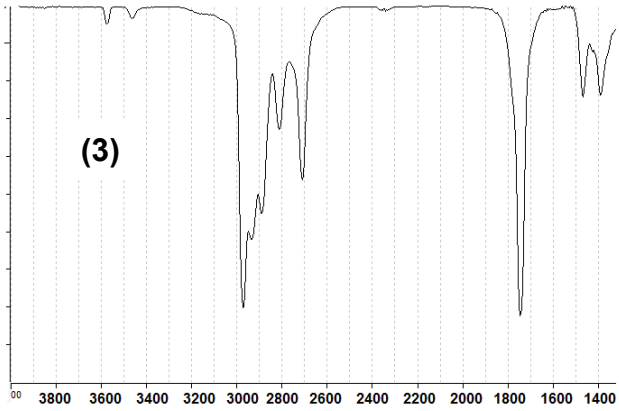


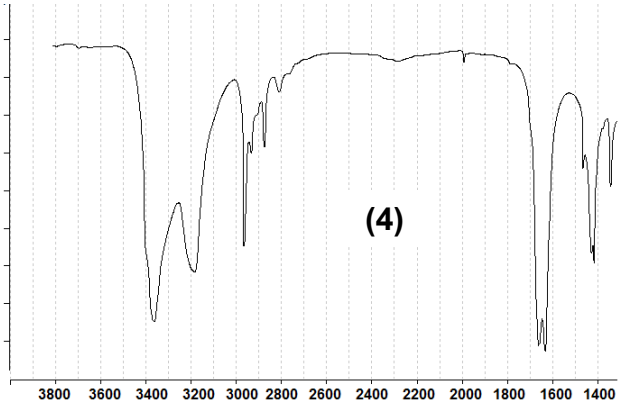
EX6/

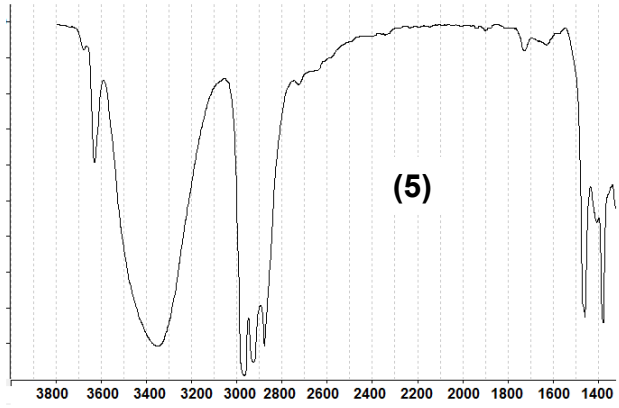
- Associer à chaque molécule son spectre IR



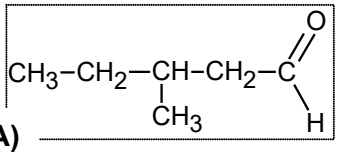








(A)



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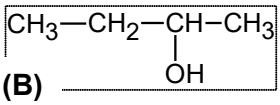

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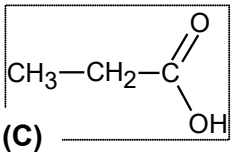

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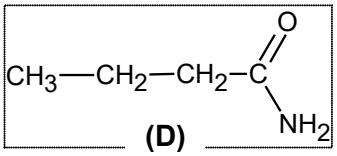

(E)