Figure 2

Acquired attenuation data (fig2y) for a range of wavelengths (fig2x)

Figure 4

Collected Raman spectrum when light was coupled to the hollow core (fig4yHCF) and the solid core (fig4solidcore) for the relevant range of wavelengths (fig4x)

Figure 5

Collected SERS spectrum when light was coupled to the hollow core (fig5HCF) and the solid core (fig5solidcore) for the relevant range of wavelengths (fig5x)

Figure 6

Collected Raman spectrum when light was coupled to the hollow core (fig6back) and when it was immersed in ethylene glycol (fig6y) for the relevant range of wavelengths (fig6x)

Figure 7

Collected Raman spectrum of ethylene glycol (ethyleneglycol) using Renishaw inVia confocal Raman microscope with a 785 nm laser.

Figure 8

Collected Raman spectrum when light was coupled to the hollow core (fig8back) without additional collection cores and when it was immersed in ethylene glycol (fig8y) for the relevant range of wavelengths (fig8x)

Figure 9

Collected Raman spectrum when light was coupled to the hollow core (fig9back) and when the fibre was in contact with the porcine fat (fig9y) for the relevant range of wavelengths (fig9x)

Figure 10

Collected Raman spectrum when the fibre was in contact the porcine fat (fig10porcinefat) and the porcine meat (fig10porcinemeat) for the relevant range of wavelengths (fig10x)

Figure 11

Collected Raman spectrum when light was coupled to the hollow core (fig11back) and tissue Raman spectrum from the porcine fat collected using free space (fig11freespace) or through the fibre (fig11throughfibre) for the relevant range of wavelengths (fig11x).

Units for each text file

Fig2y: dB/m

Fig2x: nm

Fig4yHCF: Counts

Fig4x: cm-1

Fig5HCF: Counts

Fig5x: cm-1

Fig6back: Counts

Fig6y: Counts

Fig6x: cm-1

Ethyleneglycol: Counts/ cm-1

Fig8back: Counts

Fig8y: Counts

Fig8x: cm-1

Fig9back: Counts

Fig9y: Counts

Fig9x: cm-1

Fig10porcinefat: Counts

Fig10porcinemeat: Counts

Fig10x: cm-1

Fig11back: Counts

Fig11freespace: Counts

Fig11x: cm-1