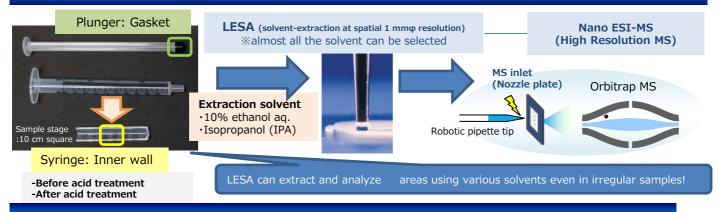
HR-MS of solvent extracts at 1mm φ spatial resolution ~Elution Profile based on Solvent Polarity, Analyte Region~

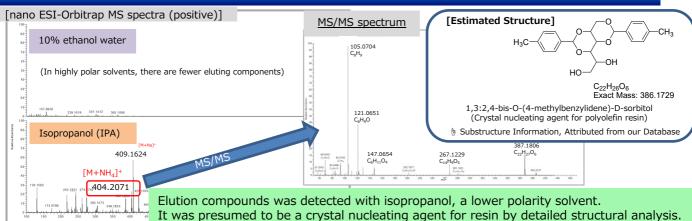
LESA(Liquid Extract Surface Analysis) nano ESI-MS systems capable of surface analysis under atmospheric pressure can solvent-extract surfaces at $1 \text{mm} \, \phi$ spatial resolution to assign the structure of eluted molecules from materials by HR(High Resolution)-MS.

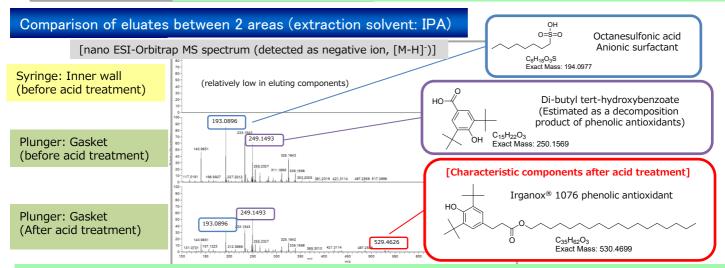
Extraction and direct analysis can rapidly provide information on various solvents in each area.

LESA(Liquid Extract Surface Analysis) nano ESI-MS Analysis Flow-Examples of Medical Materials



Comparison of eluates between 2 solvents (syringe: inner wall, before acid treatment)





- ✓ Characteristically anionic surfactant and phenolic antioxidant decomposition products were detected in the gasket.
- ✓ After acid treatment, phenolic antioxidants of high molecular weight components were further extracted.

LESA nano ESI-MS can be used to rapidly characterize differences in solvent species, respective analyte regions, and eluted components with degradation.