

DART-SVP vs ASAP Probe

| | ASAP | DART-SVP |
|-------------------------------|--|--|
| Direct Insertion | Solids and liquids | Gases , solids or liquids |
| Variety of Ionization | Predominantly Positive ion formation of $[M+H]^+$, and $[M+Na]^+$ | Easily accomplishes either positive $[M+H]^+$ or negative ion formation $[M-H]^-$ with no cationization |
| Sampling | Great care required for analysis of powders due to capability of the heating gas to displace the solids = contamination | Use of sampler with the VAPUR removes the desorption and ionization region from close to the atmospheric pressure inlet |
| Automated Sample Introduction | Samples submitted one-by-one in manual process | Many automated sample handling modules make high throughput measurements routine |
| Desorption Temperature | Usually fixed temperature since APCI spray source block is used to heat the desorbing gas changing temperature requires significant time | Operation at temperatures ranging from room temperature to 450C easily selected with only short time intervals require for temperature stabilization. Automated temperature profiling. |