**PRALLETHRIN ULTRA LOW VOLUME SOLUTIONS**

 \*743/LV/M-

1. **Sampling**. Take at least 200ml
2. Identity tests. As for Prallethrin Liquid Vaporizer 743/LV/M/- CIPAC L, page 117. An additional GC-MS identity test is proposed for UL formulations as outlined below:

The following instrument parameters were utilized in the GC/MS analysis:

|  |  |
| --- | --- |
| Oven Program | 50ºC for 2 minutes10ºC/min to 250ºC for 5 min10ºC/min to 325ºC for 10min |
| Run time | 44.5min, Prallethrin ret. time ca 19.9 min |
| Inlet Temperature | 325ºC |
| Injection Volume | 1µL |
| Split Injection – Split flow | 100mL/min |
| Flow velocity | Helium at 45cm/s |
| Column | Agilent HP-5ms: 30m x 250µm x 0.25µm |
| MSD Transfer Line | 335ºC |
| MS Source | 230ºC |
| MS Quad | 150ºC |
| Solvent Delay | 5min |

Prallethrin is identified in the standard and sample solution with a clear peak which matched the NIST library search for prallethrin, containing the major ion fragment of 123 AMU.

1. **Prallethrin**. As for Prallethrin Liquid Vaporizer 743/LV/M/- CIPAC L, page 117 except
2. Detector temperature and Inlet temperature both changed to 325ºC.
3. If specific UL formulations are demonstrating a matrix effect (e.g. suppression or amplification of the analyte signal), then quantitation by the method of standard addition is acceptable.

**Figure 1. Prallethrin standard solution analysis – GC/MS
**

**Figure 2. Formulation Analysis for Prallethrin – GC/MS
**