FOOD ANALYSIS

A VALIDATED GC/MS/MS SOLUTION FOR THE ANALYSIS OF PESTICIDES IN TOMATOES

Solutions for Your Analytical Business

Markets and Applications Programs

Agilent Technologies

Authorized Partner Laboratory

Matrix

- Tomatoes

Target Compounds

- Pesticides

Sample Prep

- QuEChERS

Agilent Guaranteed Solution | Developed Installed Tested Supported

The Measure of Confidence

A turn-key application for the analysis of more than 221 pesticides in Tomatoes.

Pesticides and other chemicals are used widely in tomatoe plantations. Residues may persist, possibly contaminating the tomatoe itself.

European Community regulations determine the maximum allowed amounts of those compounds in tomatoes for its member states.

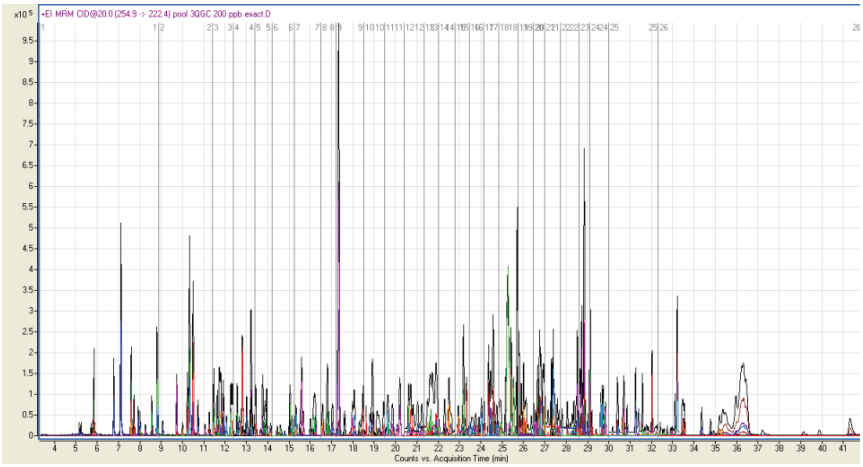
Agilent offers a turn-key Solution covering:

- Sample preparation
- GC-tandem MS analysis
- Data analysis
- Validation Protocol
- Full Agilent support

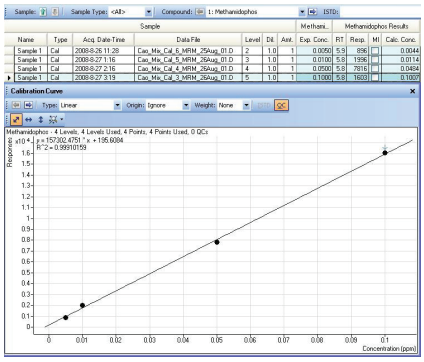
The working range goes from 0.01 mg/Kg to 0.50 mg/Kg for all analytes. LOQs, LODs, precision and recoveries are in accordance with DG SANCO guidelines.

Sample preparation is done following QuEChERS approach: extraction with organic solvent followed by dispersive SPE with Bond Elut material. Sample analysis is performed with an Agilent GC 7890 and an Agilent 7000 triple quadrupole. All compounds are determined in a single analytical run.

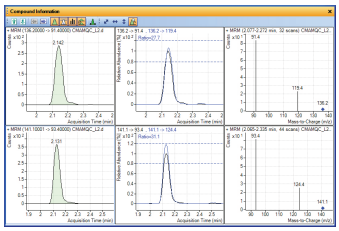
Agilent Technologies

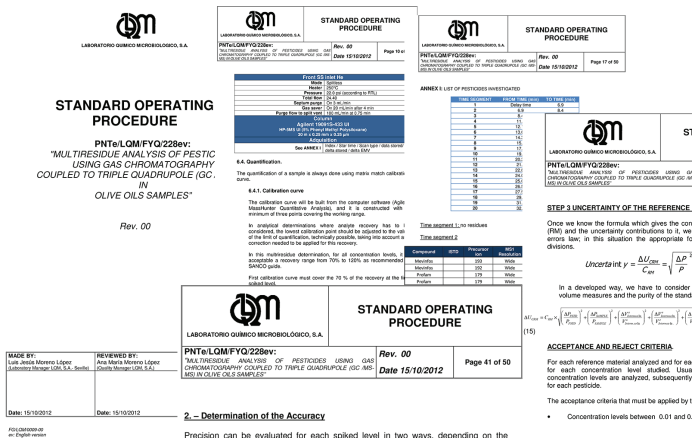


The Agilent Pesticides Solution for tomatoes comprises the following



- Complete hardware set-up (Agilent 7890 GC and Agilent 7000 GC/MSD triple quadrupole) with dedicated analytical column;
- Standard operating procedure (SOP) with detailed descriptions of the analysis and validation procedures;
- Method of analysis (a DVD/CD containing sample preparation and sample analysis methods, recommended consumables and materials);
- One week training at Laboratorio Quimico-Microbiologico (Murcia, Spain) on sample prep, validation procedures and analytical methods;
- On-site Training and Support (at customer site) covering Qualitative and Quantitative analysis;





STANDARD OPERATING PROCEDURE

PNTe/LQM/FYQ/228ev:
"MULTIRESIDUE ANALYSIS OF PESTIC USING GAS CHROMATOGRAPHY COUPLED TO TRIPLE QUADRUPOLE (GC . IN OLIVE OILS SAMPLES"

Rev. 00

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The Measure of Confidence

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