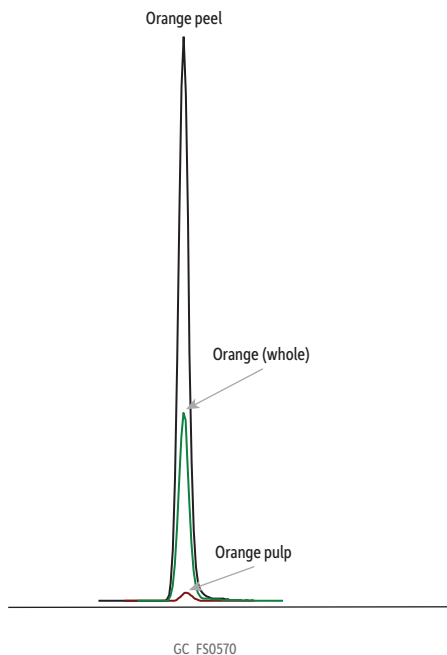


Comparison of Incurred Fludioxonil in Various Parts of Orange on Rxi-5ms



Peaks	tr (min)	Precursor Ion	Product Ion	Collision Energy (CE)
1. Fludioxonil	18.16	248	127	30

Column	Rxi-5ms, 30 m, 0.25 mm ID, 0.25 μ m (cat.# 13423)
Standard/Sample	Whole orange QuEChERS extract (318 ng/g) Orange peel QuEChERS extract (594 ng/g) Orange pulp QuEChERS extract (6.8 ng/g)
Diluent:	Acetonitrile
Injection	
Inj. Vol.:	1 μ L splitless (hold 0.5 min)
Liner:	Topaz 4.0 mm ID single taper inlet liner w/wool (cat.# 23447)
Inj. Temp.:	250 $^{\circ}$ C
Oven	
Oven Temp.:	90 $^{\circ}$ C (hold 1 min) to 330 $^{\circ}$ C at 8.5 $^{\circ}$ C/min (hold 5 min)
Carrier Gas	He, constant flow
Flow Rate:	1.4 mL/min
Detector	TSQ 8000
Transfer Line Temp.:	290 $^{\circ}$ C
Analyzer Type:	Quadrupole
Source Temp.:	280 $^{\circ}$ C
Tune Type:	PFTBA
Ionization Mode:	El
Instrument	Thermo Scientific TSQ 8000 Triple Quadrupole GC-MS
Sample Preparation	Sample Preparation (adapted from EN and AOAC QuEChERS methods):

Orange (Whole): 10 g of homogenized orange was fortified with an internal standard and mixed with 10 mL acetonitrile and two steel ball bearings (1/16") and shaken for 10 minutes. Q-sep QuEChERS extraction salts for EN 15662 (cat.# 25849) were added, and the sample was shaken for 1 minute. The sample was centrifuged for 5 minutes, and the supernatant was removed and further cleaned up with prefilled Q-sep QuEChERS dSPE tubes containing 150 mg MgSO₄, 50 mg PSA, and 50 mg C18-EC (cat.# 26125).

Orange Peel: 10 g of homogenized orange peel was fortified with an internal standard, hydrated with 4 mL water, and briefly shaken by hand. Acetonitrile (10 mL) was added, and the sample was shaken for an additional 1 minute. Q-sep QuEChERS extraction salts for EN 15662 (cat.# 25849) were added, and the sample was shaken for 1 minute. The sample was centrifuged for 5 minutes, and the supernatant was removed and further cleaned up with prefilled Q-sep QuEChERS dSPE tubes containing 150 mg MgSO₄, 25 mg PSA, and 25 mg C18-EC (cat.# 26216).

Orange Pulp: 15 g of homogenized orange pulp was fortified with an internal standard. Acetonitrile with 1% acetic acid (15 mL) was added, and the sample was shaken for 1 minute. Q-sep QuEChERS extraction salts for AOAC 2007.01 (cat.# 25851) were added, and the sample was shaken for an additional 1 minute. The sample was centrifuged for 5 minutes, and the supernatant was removed and further cleaned up with prefilled Q-sep QuEChERS dSPE tubes containing 150 mg MgSO₄ and 50 mg PSA (cat.# 26124).

The dSPE supernatant of all samples was analyzed directly (no further dilution) within 24 hours of the initial extraction.