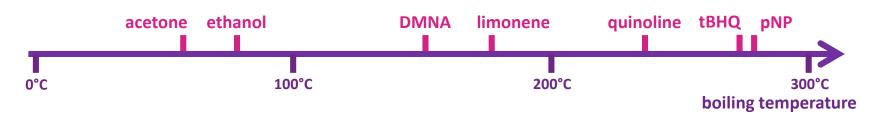
Volatile Compounds

Dimitrios Spiliotopoulos, PhD April 25th, 2019 Ames MPF / Ames II User Meeting

Working with Volatile Compounds A Caveat

- You might need to work with volatile test items and/or volatile impurities may be present in your test item
- We will not claim that <u>all</u> of the test items presented here are volatile



but they behave like it and we addressed the problems we had accordingly.

Working with Volatile Compounds Keep Them In!

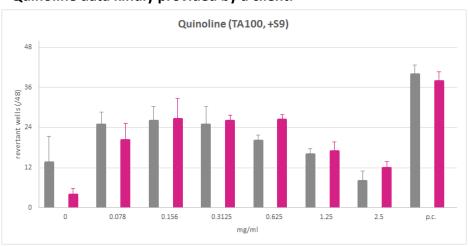
- Volatile test items are treated in the Ames in Petri dishes using bags or boxes to contain the volatilized sample
- For the Ames II and Ames MPF we recommend the use of impermeable foils

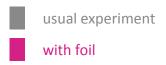


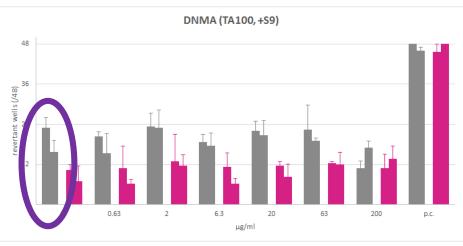
Xenometrix AG

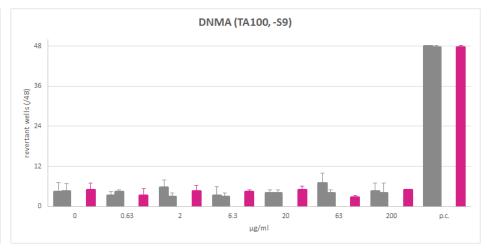
Working with Volatile Compounds A New Approach

Quinoline data kindly provided by a client.









Volatile Compounds

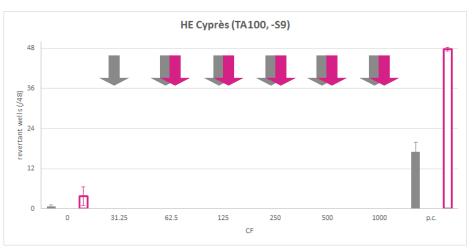
Working with Volatile Compounds A (Slightly) New Approach



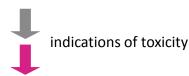
Volatile Compounds

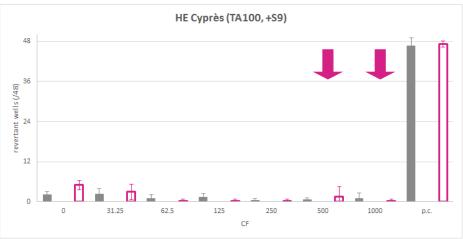


Working with Volatile Compounds Does It Work With Real-Life Samples?







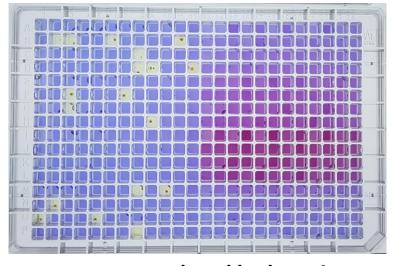




Working with Volatile Compounds Conclusions

 Volatile samples can be tested using the Ames MPF assay!

 Inappropriate control values or color indications might indicate that volatility is an issue.



tert-butyl hydroquinone