



**West Virginia State Police  
725 Jefferson Road  
South Charleston, West Virginia 25309-1698  
Forensic Laboratory**

**Colonel Jan Cahill  
Superintendent**

Date: January 18, 2023

To: Customers of the West Virginia State Police Forensic Laboratory

From: Sheri Lemons *Sheri Lemons*  
Director  
West Virginia State Police Forensic Laboratory

RE: Update on Toxicology Testing and Reporting Panel

There has been an update to the WVSP Toxicology Drug Blood/Urine Panels which are located on the [www.WVSP.gov](http://www.WVSP.gov) website and referenced on reports issued by the Toxicology Section of the Forensic Laboratory. Compounds were previously listed as specifically pertaining to the delta-9 isomer of tetrahydrocannabinol and its metabolites. Recent studies performed at the laboratory have shown that there is coelution of at least one positional isomer with the delta-9 isomer. Due to these studies, we want to clarify that the quantitative value that is displayed on the report could be delta-9THC and its metabolites or a combination of delta-9THC/metabolites and their positional isomers. The positional isomers, i.e. delta-8THC are known to also cause impairment. The potency in literature has been documented as being less than that of delta-9THC, however, qualitatively producing similar physiological effects. While the laboratory is currently in the process of developing methods to separate out the THC isomers, we feel that scientifically to be most accurate the change to the panel should reflect that the compounds reported can be a combination of positional isomers which would be included in the reported quantitative value. Any questions can be directed to the Toxicology Section which can be reached at 304-746-2288 or [toxicology@wvsp.gov](mailto:toxicology@wvsp.gov).

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