VALIDATION SUMMARY	
Procedure Name	**Screening for Drug Residues with the Smiths Detection IONSCAN (GENCHEM 508)**
Validation Summary	**The limit of detection (LOD) of each of the substances programmed to alarm (i.e., amphetamine, W-18, acetylfentanyl, butyrylfentanyl, carfentanil, cocaine, fentanyl, furanylfentanyl, heroin, ketamine, MDMA, methamphetamine, methylfentanyl, and THC) was assessed. All drugs were found to alarm within their respective 'channel' at ≤ 50 ng of material evaporated on an IMS swab on each of three separate days of testing, with the exception of MDMA and methylfentanyl. MDMA produced an alarm at 50 ng on the first 2 days of testing, however it did not alarm on the third day. Methylfentanyl (specifically, cis-3-methyl fentanyl as programmed by the instrument manufacturer) provided an alarm on all 3 days, however it provided hits in both the 'heroin' and 'methylfentanyl' channels.** **Selectivity was assessed as described above with regard to substances alarming within the appropriate channels. In addition, glass slide blanks, cotton swabs, blank syringes, and blank ion mobility spectrometer (IMS) swabs were sampled and analyzed for the presence of false positives. None of the analyzed matrices resulted in false positive alarms for the targeted substances.**

APPROVALS				
Technical Approval	Redacted		Date	7/1/2024
.iit Chief Approval			Date	7/2/2024