KKGT

DOA Round 2015.4B

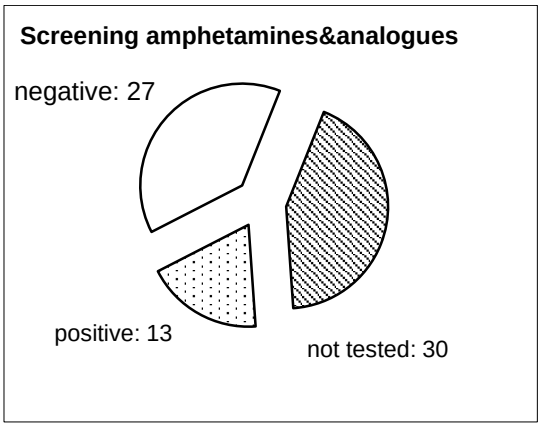
Casus:

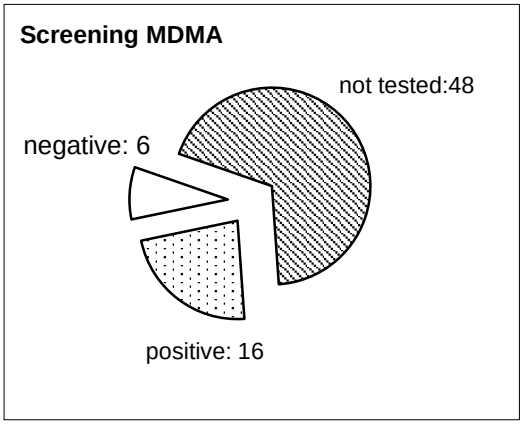
Urine from a person attending a dance event.

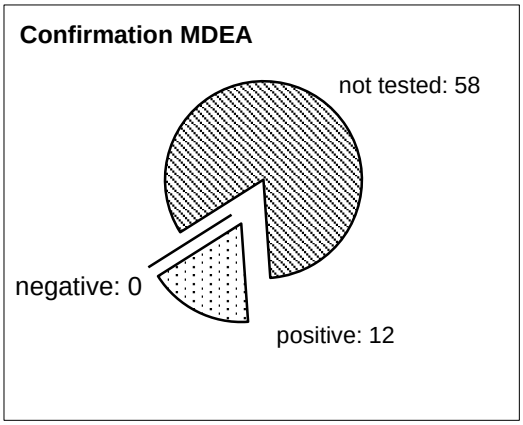
Composition: urine spiked with MDEA 1476 µg/, THCCOOH 80,5 µg/l en GHB 500 mg/l.

Results:

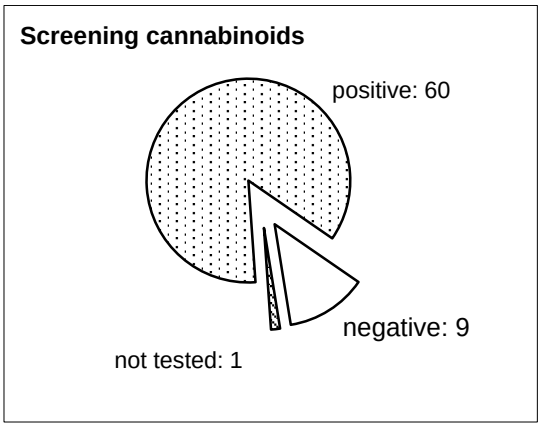
Amphetamines: screening positive (>1000 µg/l)					
Summary statistics:					
number of laboratories: 70					
screening:	pos.	neg.	not tested	FP*	FN*
amphetamines&analogues	13=19%	27=39%	30=43%	0	27=68%
amphetamine	1=1%	33=47%	36=51%	1=3%	0
methylamphetamine	0=%	26=37%	44=63%	0	0
MDMA	16=23%	6=9%	48=69%	16=73%	0
MDA	0=0%	0=0%	70=100%	0	0
MDEA	0=0%	0=0%	70=100%	0	0
confirmation:	pos.	neg.	not tested		
amphetamine	0=0%	7=10%	63=90%	0	0
methylamphetamine	0=0%	7=10%	63=90%	0	0
MDA	0=0%	6=9%	64=91%	0	0
MDMA	1=1%	6=9%	63=90%	1=14%	0
MDEA	12=17%	0=0%	58=83%	0	0

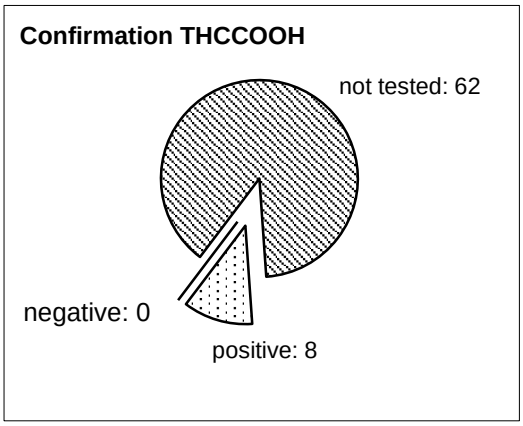






Cannabinoids: screening positive (>50 µg/l)					
Summary statistics:					
number of laboratories: 70					
screening:	pos.	neg.	not tested	FP*	FN*
	60=86%	9=13%	1=1%	0	9=13%
confirmation:	pos.	neg.	not tested		
benzoylecgonine	8=11%	0=0%	62=89%	0	0





Discussion by drs. P.G.M. Zweipfenning:

This was (blanc) urine spiked with Gammahydroxybutyric acid (GHB) 500 mg/L, MDEA 1476 µg/L and THCCOOH 80.5 µg/L. (Creatinine 5.9 mmol/L)

The results for MDEA show something peculiar. Based on the concentration spiked (1476) and the cut-off (1000 µg/L) positive should be the result. We see a mean value of all sceening tests of 1507 µg/L with a SD of 3071 (VC 204 %) ! Method nr. 3 (Cedia) give very high results. Type 4 (KIMS) show mean values and the others are low. Different antibodies and different calibrators cause these effects. Furthermore can be noted that type 2f is reported under “amphetamine & analogues” as well as “screening MDMA”. This is because method nr 2f is specified as “Architect” and this is an

analyser (machine) on which different tests (kits) with different antibodies can be run. This makes clear that a better specification of the test types is necessary. The KKGT bureau in The Hague is working on this together with the bureau of SKML so the specification can be implemented correctly in Qbase in the near future.

THCCOOH: 9 out of 69 labs reported negative. The mean value of all screening results is somewhat low (78%).

Only 13 labs tested for GHB, 11 also reported a concentration. All correctly positive. The mean value was excellent (101%) the VC (22%) is a bit high. There is no (or not yet) a formal cut-off. Mostly 10 mg/L is used as such. Under 5 mg/L one enters the range of endogenous GHB. And of course that does not reflects the use of GHB.