

Basic Drugs In Urine Clean Screen FAST® Column



UCT Part Numbers

CSFAS203
Clean Screen FAST®
200 mg, 3 mL

SLDA50ID21-5UM
Selectra® DA HPLC Column,
50 x 2.1 mm, 5 µm

Procedure:

1. Prepare Sample

- To 2 mL of urine add internal standard(s)
- Adjust pH to 6

2. Load Sample and Sample Dilute Ratio

Sample Dilution Ratio: Sample Volume* :
Diluent** Volume

Note: *If sample is hydrolyzed add appropriate aliquot
volume after hydrolysis is complete.

Dilution Ratio	Urine	Diluent**
1:1	500 uL	500 uL
1:4	200 uL	800 uL
1:9	100 uL	900 uL

** Diluent is 50:50 (Methanol: D.I. H₂O)

Sample and diluents are added in an appropriately
labeled tube.

Add appropriate volume internal standard(s). It is
recommended to use an internal standard volume of
no more than 200 uL.

3. Extraction and Collection

- Set up extraction manifold with FAST cartridges and
auto-sampler collection vials.
- Pour sample into FAST cartridge and elute sample
directly into auto-sampler vials.

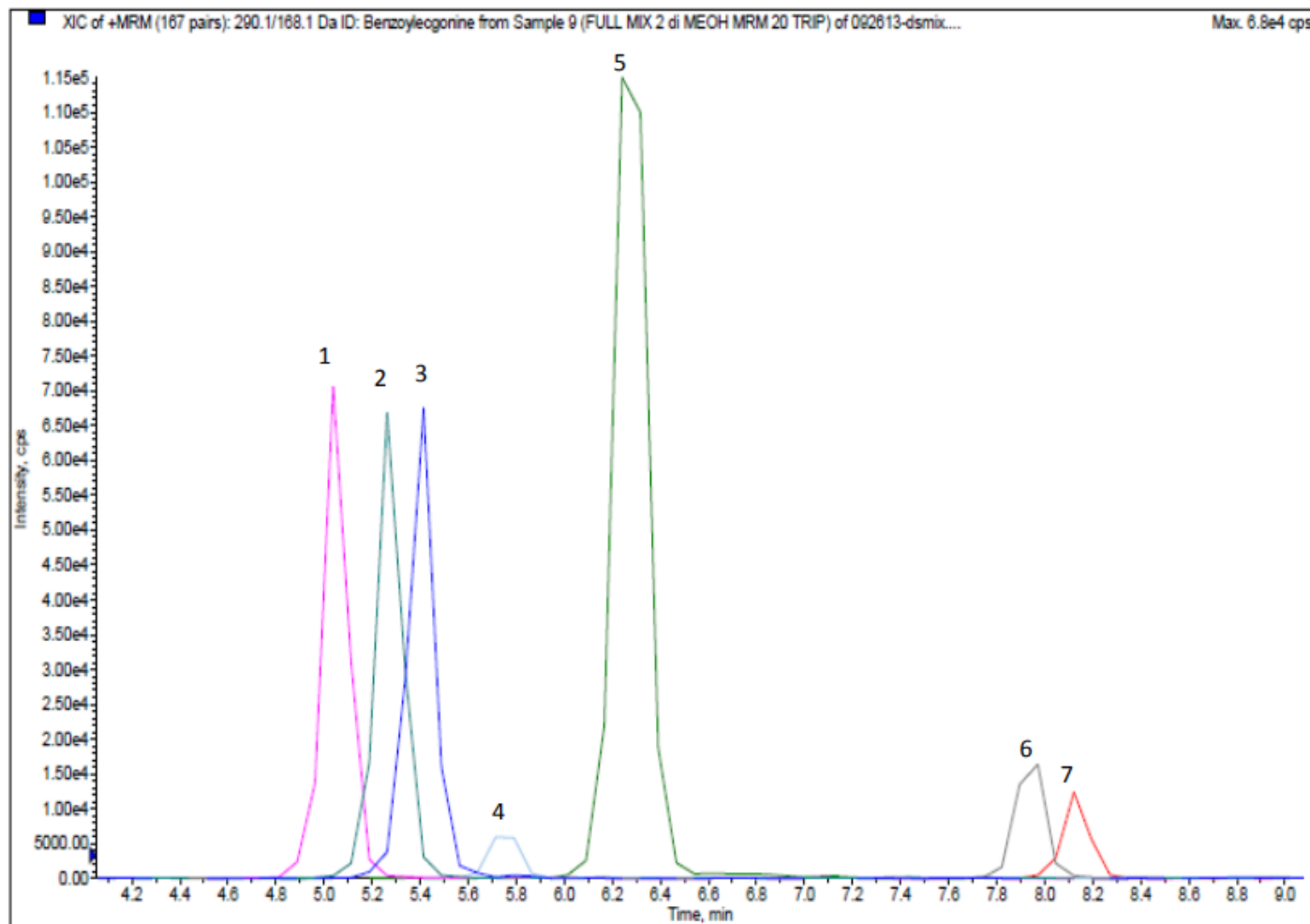
4. Analysis

- Cap vials and put directly onto LC/MS for analysis.



Instrument Conditions (LC-MS/MS):

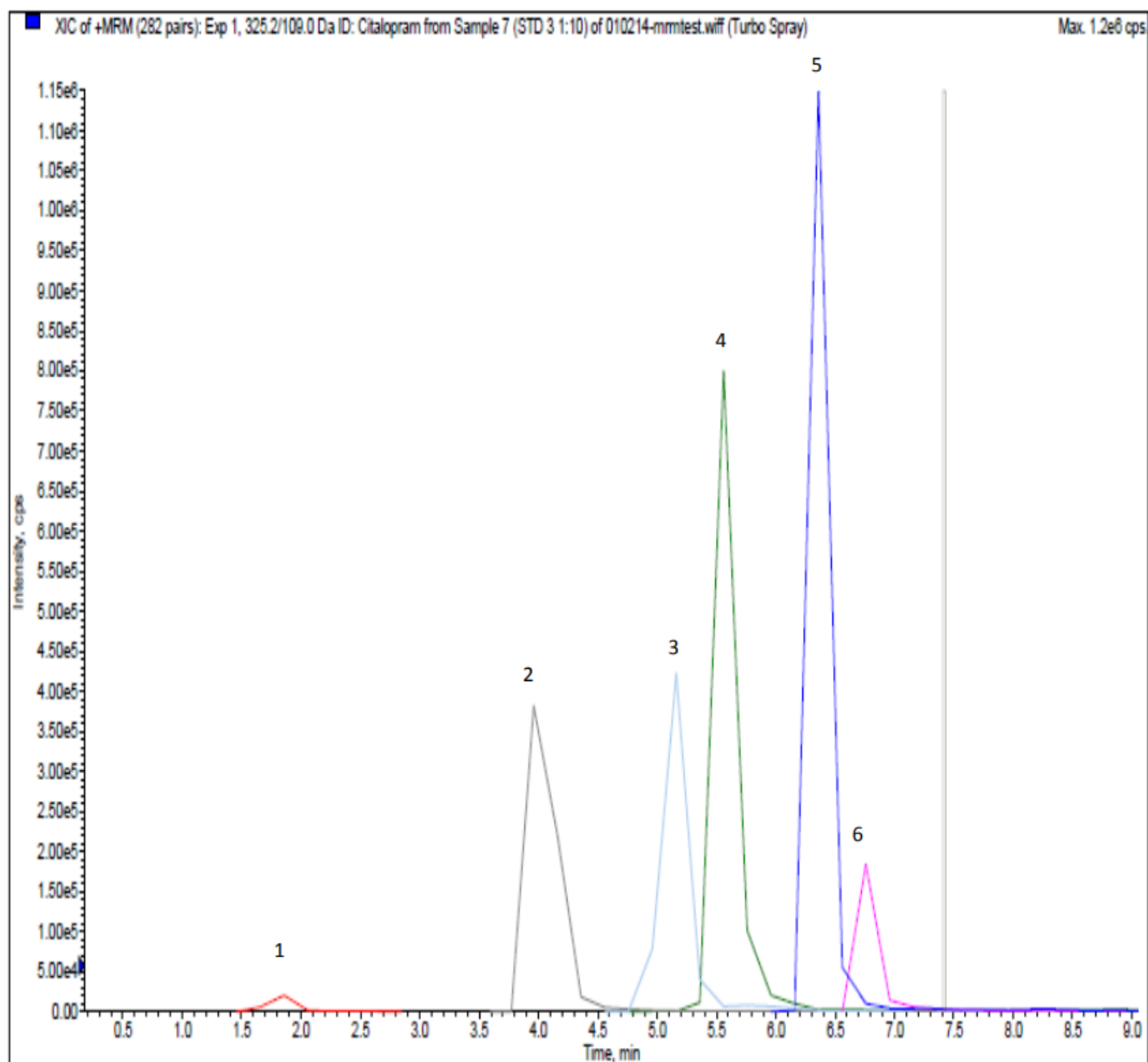
Chromatograms



Basic Panel 1

Analyte	MRM Transitions		Relative Retention Time (min)
	Q1	Q3	
1. Tapentadol	222.2	107.2	5.10
2. Tramadol	264.2	58.0	5.25
3. Benzoylcegonine	290.1	168.1	5.40
4. Meperidine	248.2	220.0	5.75
5. Cocaine	304.1	182.1	6.30
6. Fentanyl	337.2	188.2	7.90
7. Buprenorphine	468.3	396.3	8.15

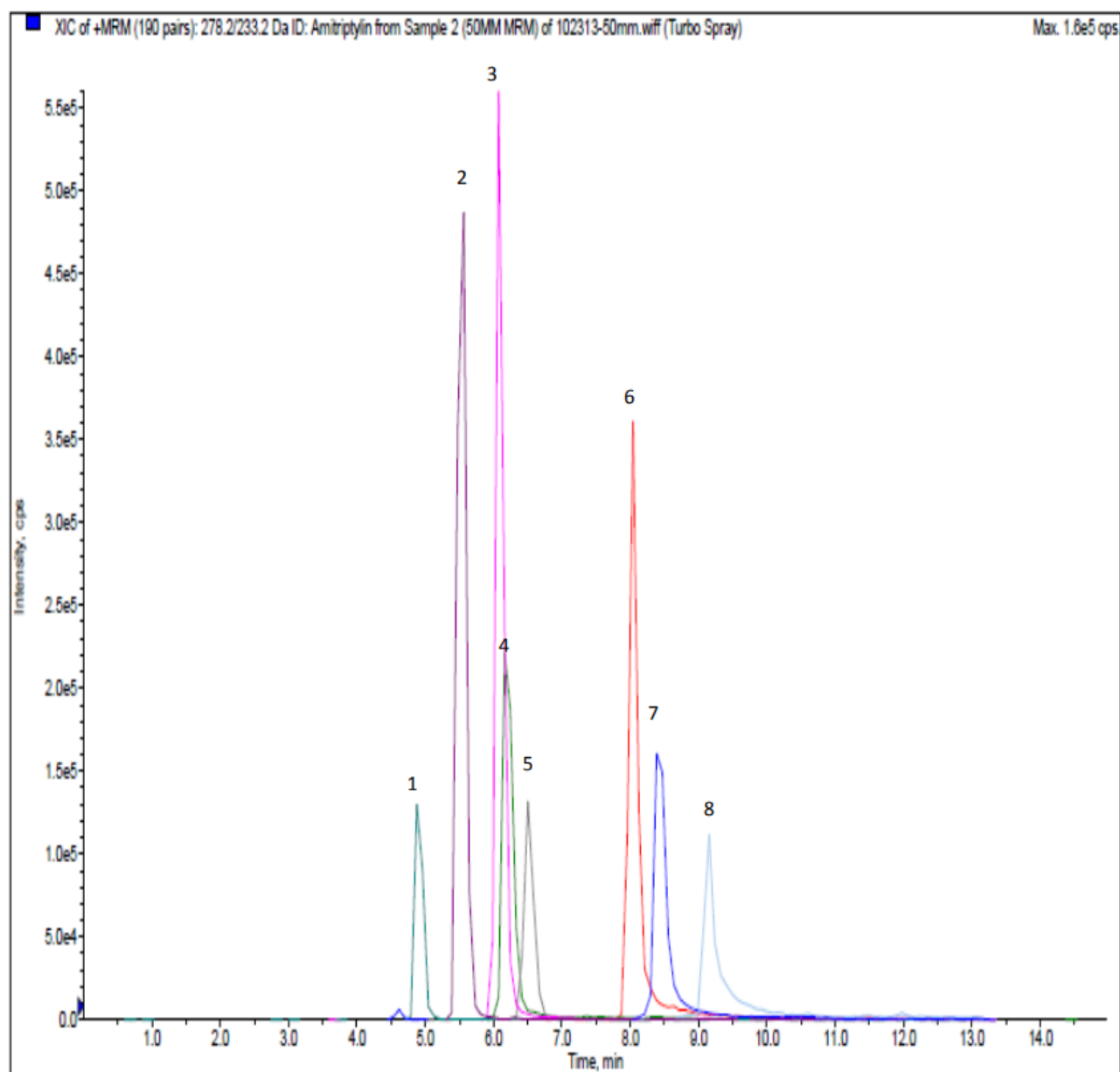




Basic Panel 2

Analyte	MRM Transitions		Relative Retention Time (min)
	Q1	Q3	
1. Clonidine	230.0	213.0	1.80
2. Ketamine	238.1	125.0	4.00
3. Mirtazepine	266.2	195.1	5.10
4. Clozapine	327.1	270.1	5.60
5. Citalopram	325.2	109.0	6.40
6. Norfluoxetine	296.2	134.2	6.80

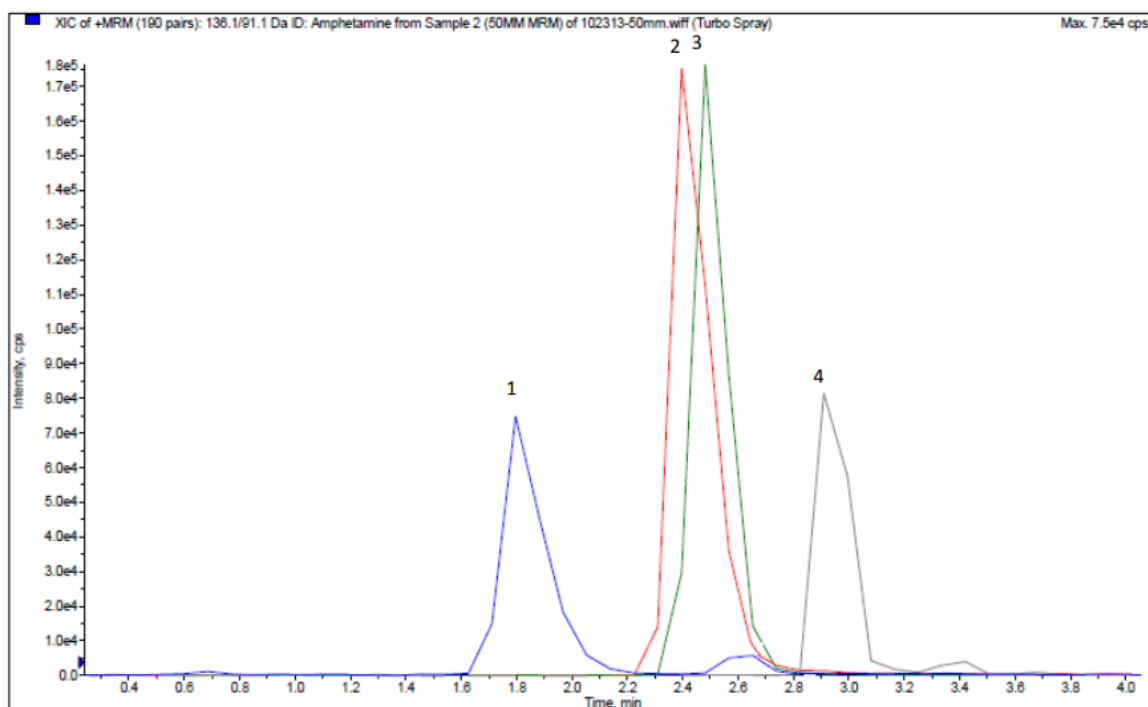




Antidepressant Panel

Analyte	MRM Transitions		Relative Retention Time (min)
	Q1	Q3	
1. Venlafaxine	278.2	260.2	4.90
2. Zolpidem	308.2	235.2	5.50
3. Trazadone	372.2	176.1	6.05
4. PCP	244.2	86.1	6.20
5. Quetiapine	384.2	253.1	6.50
6. Imipiramine	281.2	86.1	8.40
7. Amitriptyline	278.2	233.2	8.42
8. Sertraline	306.1	159	9.25





Amphetamine Panel

Analyte	MRM Transitions		Relative Retention Time (min)
	Q1	Q3	
1. Amphetamine	136.1	91.1	1.18
2. Methamphetamine	150.1	91.1	2.40
3. MDA	180.1	105.0	2.45
4. MDMA	194.1	105.1	2.95

LC-MS/MS Parameters

Mobile Phase A	0.1% Formic Acid in D.I. H ₂ O
Mobile Phase B	0.1% Formic Acid in Methanol
Injection Volume	20 µL
LC Column	Selectra® DA HPLC Column 50 x 2.1 mm 5 µm (PN: SLDA50ID21-5UM)
Instrument	API 3200 Qtrap MS/MS with Shimadzu Prominence UFLC
Flow Rate	0.5 mL/minute
Polarity	Positive

Gradient

Time	%A	%B
0.00	80	20
0.50	80	20
12.00	10	90
12.01	80	20
15.00	STOP	STOP



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