

## NDMA and NDEA detection with SCIEX 5500 system

### MS Ion source parameter



Ion source : APCI
Polarity : Positive
Nebulizer current : 3
Source temperature : 500

### HPLC condition



Column : Phenomenex Kinetex F5 (3.0 x 100mm, 2.6um)
Mobile Phase A : Water
Mobile Phase B : Acetonitrile
Flow rate : 0.4 mL/min
Column temperature : 40
Injection volume : 20uL

Gradient profile	Time (min)	% B
	0.0	5
	1.5	5
	3.0	30
	4.0	90
	5.0	90
	5.5	5
	10.0	5

Divert valve : Initial (Waste) – 1.5 min (MS) – 5.3 min (Waste)

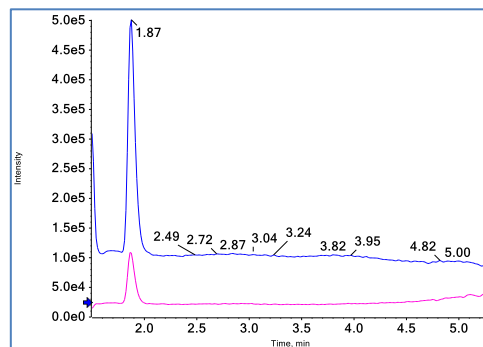


Figure 1 : NDMA

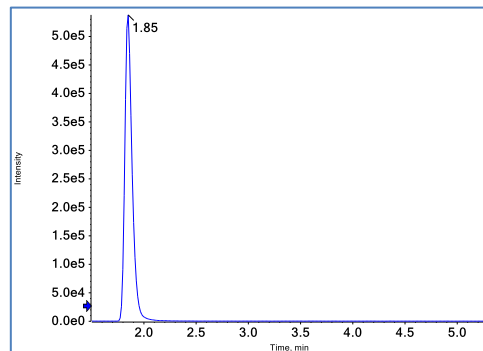


Figure 2 : NDMA-d6

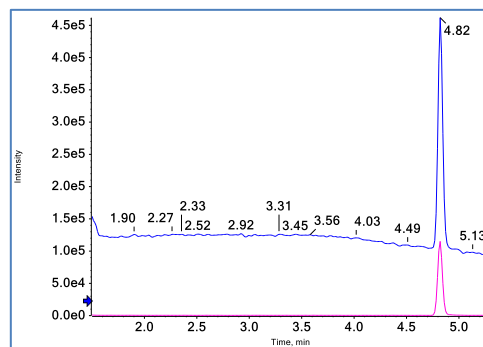


Figure 3 : NDEA

## MRM transition and parameters for 5500 system

	Q1	Q3	Dwell time	DP	EP	CE	CXP
NDMA 1	75	43	150	75	10	20	8
NDMA 2	75	58	150	75	10	16	8
NDMA-d6	81	46	150	81	10	23	8
NDEA 1	103	75	150	48	10	14	8
NDEA 2	103	47	150	48	10	20	8

Tip !!

### Probe position for APCI ion source

General probe position of APCI : vertical 7 and horizontal 5

