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Ultra-sensitive

CNLSD's ultra-sensitivity can be used:

- When analyzing ***non*** or ***semi volatile*** compound
- When only ***trace amount*** of analytes are available
- When searching for ***drug impurities*** and ***degradation*** products
- When identification and quantification of ***excipients*** is necessary
- When ***industrial hygiene*** is a concern
- When compounds have ***weak or no chromophores***
- Even when compounds ***have good chromophores***

Refer to chromatograms below showing ng levels of detection

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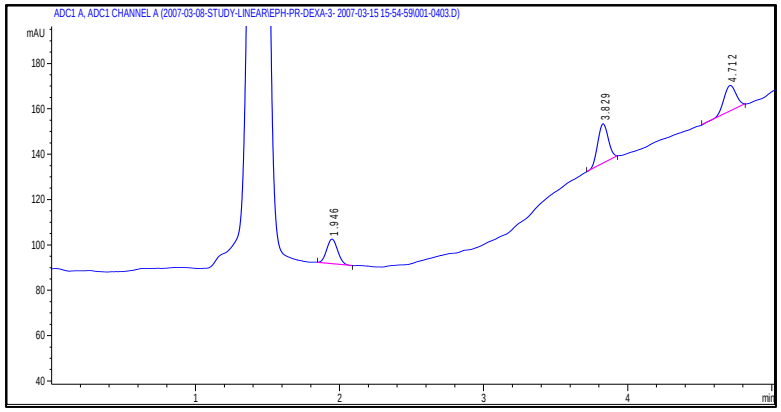
Detection of 2 ng (on column conc.)



Peak #	ID	Retention Time (min)
1	Ephedrine	1.946
2	Prednisone	3.829
3	Dexamethasone	4.712
Refer to the applications page for experimental conditions		

RetTime [min]	Area [mAU*s]	Height [mAU]	Symm.	Width [min]	Signal /Noise
1.946	54.21151	10.68454	0.94	0.0808	25.5
3.829	89.13013	17.42297	1.04	0.0817	41.5
4.712	67.69373	11.36119	1.13	0.0975	27.1

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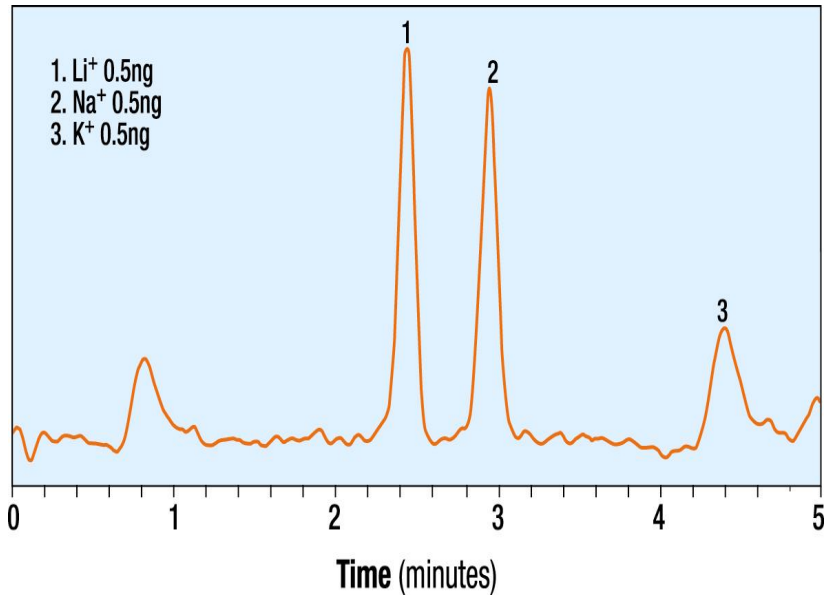
Detection of 0.5 ng (on column conc.)



Peak #	ID	Retention Time (min)
1	Li^+	2.429
2	Na^+	2.936
3	K^+	4.392
Refer to the applications page for experimental conditions		

RetTime [min]	Area [mAU*s]	Height [mAU]	Symm.	Width [min]	Signal /Noise
2.429	2369.87573	355.07587	1.01	0.1042	28.2
2.936	2241.30737	315.27234	1.01	0.1108	25.1
4.392	1084.76123	99.28452	0.91	0.1800	7.9

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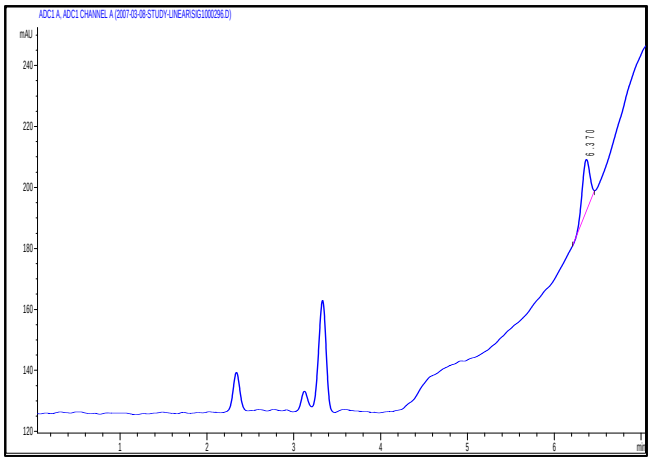
Detection of 9 ng of Lysozyme (on column conc.)



Peak #	ID	Retention Time (min)
1	Lysozyme	6.37
Refer to the applications page for experimental conditions		

RetTim [min]	Area [mAU*s]	Height [mAU]	Width [min]	Plates	Signal /Noise
6.37	105.07286	17.08284	0.1058	20068	65.1

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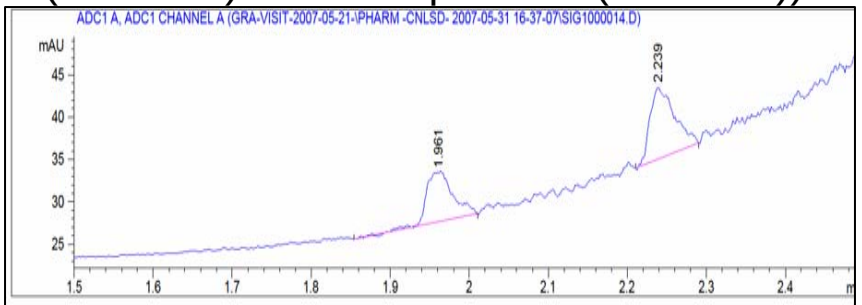
10 ng on column of Diphenhydramine (S/N=328) and Trimipramine (S/N=480)) Detection by CNLSD



Area Percent Report with Performance and Noise

Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ADC1 A, ADC1 CHANNEL A

Noise determination:

Time range from [min]	to [min]	Noise (6*SD) [mAU]	Noise (PtoP) [mAU]	Noise (ASTM) [mAU]	Wander [mAU]	Drift [mAU/h]
0.600	1.000	1.755e-2	1.103e-2	-	-	1.427

RetTime [min]	k'	Area [mAU*s]	Height [mAU]	Symm.	Width [min]	Plates	Resolution	Signal /Noise
1.961	-	13.96370	5.74834	0.88	0.0361	16343	-	327.6
2.239	-	18.35678	8.41714	0.50	0.0407	16796	4.25	479.7