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Analysis BegunLogged In Analyst: UM Jabatan Kimia                      Technique: AA Flame  
Spectrometer Model: AAnalyst 400, S/N 201S7081502 Autosampler Model:

Sample Information File: C:\data-AA\UM Jabatan Kimia\Sample Information\Nensi.sif

Batch ID:

Results Data Set:

Results Library:

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Method Loaded

Method Name: NensiCr

Method Last Saved: 3/5/2014 2:16:15 PM

Method Description: Cr Detection in crude oil samples

Sequence No.: 53

Autosampler Location:

Sample ID: blank

Date Collected: 3/5/2014 2:34:35 PM

Analyst:

Data Type: Original

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Replicate Data: blank

Repl #	SampleConc mg/L	StdConc mg/L	BlkCorr Signal	Time	Signal Stored
1		[0.00]	0.143	14:34:37	No
2		[0.00]	0.151	14:34:41	No
3		[0.00]	0.152	14:34:46	No
Mean:		[0.00]	0.149		
SD:		0.00	0.0050		
%RSD:		0.00	3.36		

Auto-zero performed.

Sequence No.: 54

Autosampler Location:

Sample ID: blank

Date Collected: 3/5/2014 2:34:55 PM

Analyst:

Data Type: Original

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Replicate Data: blank

Repl #	SampleConc mg/L	StdConc mg/L	BlkCorr Signal	Time	Signal Stored
1		[0.00]	0.004	14:34:55	No
2		[0.00]	0.003	14:34:59	No
3		[0.00]	0.004	14:35:03	No
Mean:		[0.00]	0.004		
SD:		0.00	0.0004		
%RSD:		0.00	11.62		

Auto-zero performed.

Sequence No.: 55

Autosampler Location:

Sample ID: Calib Std 1

Date Collected: 3/5/2014 2:35:17 PM

Analyst:

Data Type: Original

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Replicate Data: Calib Std 1

Repl #	SampleConc mg/L	StdConc mg/L	BlkCorr Signal	Time	Signal Stored
1		[3.5]	0.045	14:35:19	No
2		[3.5]	0.044	14:35:23	No
3		[3.5]	0.044	14:35:27	No
Mean:		[3.5]	0.044		
SD:		0.0	0.0005		
%RSD:		0.0	1.19		

Standard number 1 applied. [3.5]

Correlation Coef.: 1.000000    Slope: 0.01259    Intercept: 0.00000

Sequence No.: 56  
 Sample ID: Calib Std 2  
 Analyst:

Autosampler Location:  
 Date Collected: 3/5/2014 2:35:59 PM  
 Data Type: Original

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 Replicate Data: Calib Std 2

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1		[4.0]	0.050	14:36:03	No
2		[4.0]	0.051	14:36:08	No
3		[4.0]	0.050	14:36:12	No
Mean:		[4.0]	0.050		
SD:		0.0	0.0004		
%RSD:		0.0	0.80		
Standard number 2 applied. [4.0]					
Correlation Coef.: 0.999857 Slope: 0.01257 Intercept: 0.00000					

Sequence No.: 57  
 Sample ID: Calib Std 3  
 Analyst:

Autosampler Location:  
 Date Collected: 3/5/2014 2:36:34 PM  
 Data Type: Original

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 Replicate Data: Calib Std 3

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1		[4.5]	0.055	14:36:35	No
2		[4.5]	0.055	14:36:40	No
3		[4.5]	0.055	14:36:44	No
Mean:		[4.5]	0.055		
SD:		0.0	0.0003		
%RSD:		0.0	0.54		
Standard number 3 applied. [4.5]					
Correlation Coef.: 0.991500 Slope: 0.01243 Intercept: 0.00000					

Sequence No.: 58  
 Sample ID: Calib Std 4  
 Analyst:

Autosampler Location:  
 Date Collected: 3/5/2014 2:37:10 PM  
 Data Type: Original

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 Replicate Data: Calib Std 4

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1		[5.0]	0.062	14:37:13	No
2		[5.0]	0.061	14:37:18	No
3		[5.0]	0.061	14:37:22	No
Mean:		[5.0]	0.061		
SD:		0.0	0.0003		
%RSD:		0.0	0.55		
Standard number 4 applied. [5.0]					
Correlation Coef.: 0.995523 Slope: 0.01238 Intercept: 0.00000					

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 Calibration data for Cr 357.87

Equation: Linear Through Zero

ID	Mean Signal (Abs)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD
blank	0.0000	0	0.000	0.00	11.6
Calib Std 1	0.0440	3.5	3.558	0.00	1.2
Calib Std 2	0.0502	4.0	4.057	0.00	0.8
Calib Std 3	0.0551	4.5	4.448	0.00	0.5
Calib Std 4	0.0614	5.0	4.958	0.00	0.5
Correlation Coef.: 0.995523 Slope: 0.01238 Intercept: 0.00000					

Sequence No.: 59  
 Sample ID: North Lukut A-1

Autosampler Location:  
 Date Collected: 3/5/2014 2:37:50 PM

Analyst: Data Type: Original

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Replicate Data: North Lukut A-1

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.817	0.817	0.010	14:37:54	No
2	0.822	0.822	0.010	14:37:58	No
3	0.759	0.759	0.009	14:38:02	No
Mean:	0.799	0.799	0.010		
SD:	0.035	0.035	0.0004		
%RSD:	4.386	4.386	4.39		

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Sequence No.: 60

Autosampler Location:

Sample ID: North Lukut A-2

Date Collected: 3/5/2014 2:38:27 PM

Analyst:

Data Type: Original

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Replicate Data: North Lukut A-2

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.679	0.679	0.008	14:38:28	No
2	0.611	0.611	0.008	14:38:33	No
3	0.562	0.562	0.007	14:38:37	No
Mean:	0.617	0.617	0.008		
SD:	0.059	0.059	0.0007		
%RSD:	9.547	9.547	9.55		

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Sequence No.: 61

Autosampler Location:

Sample ID: North Lukut A-3

Date Collected: 3/5/2014 2:39:13 PM

Analyst:

Data Type: Original

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Replicate Data: North Lukut A-3

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.627	0.627	0.008	14:39:15	No
2	0.648	0.648	0.008	14:39:19	No
3	0.644	0.644	0.008	14:39:23	No
Mean:	0.640	0.640	0.008		
SD:	0.011	0.011	0.0001		
%RSD:	1.767	1.767	1.77		

=====

Sequence No.: 62

Autosampler Location:

Sample ID: North Lukut A-5

Date Collected: 3/5/2014 2:39:47 PM

Analyst:

Data Type: Original

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Replicate Data: North Lukut A-5

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.528	0.528	0.007	14:39:48	No
2	0.540	0.540	0.007	14:39:53	No
3	0.548	0.548	0.007	14:39:57	No
Mean:	0.539	0.539	0.007		
SD:	0.010	0.010	0.0001		
%RSD:	1.932	1.932	1.93		

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Sequence No.: 63

Autosampler Location:

Sample ID: North Lukut A-6

Date Collected: 3/5/2014 2:40:54 PM

Analyst:

Data Type: Original

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Replicate Data: North Lukut A-6

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal
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#	mg/L	mg/L	Signal		Stored
1	0.628	0.628	0.008	14:40:55	No
2	0.594	0.594	0.007	14:41:00	No
3	0.603	0.603	0.007	14:41:04	No
Mean:	0.608	0.608	0.008		
SD:	0.017	0.017	0.0002		
%RSD:	2.871	2.871	2.87		

Sequence No.: 64

Autosampler Location:

Sample ID: Penara A-2

Date Collected: 3/5/2014 2:41:27 PM

Analyst:

Data Type: Original

Replicate Data: Penara A-2

Repl	SampleConc	StndConc	Blncorr	Time	Signal
#	mg/L	mg/L	Signal		Stored
1	0.709	0.709	0.009	14:41:30	No
2	0.640	0.640	0.008	14:41:35	No
3	0.547	0.547	0.007	14:41:39	No
Mean:	0.632	0.632	0.008		
SD:	0.081	0.081	0.0010		
%RSD:	12.81	12.81	12.81		

Sequence No.: 65

Autosampler Location:

Sample ID: Penara A-5L

Date Collected: 3/5/2014 2:42:04 PM

Analyst:

Data Type: Original

Replicate Data: Penara A-5L

Repl	SampleConc	StndConc	Blncorr	Time	Signal
#	mg/L	mg/L	Signal		Stored
1	0.562	0.562	0.007	14:42:07	No
2	0.584	0.584	0.007	14:42:12	No
3	0.480	0.480	0.006	14:42:16	No
Mean:	0.542	0.542	0.007		
SD:	0.055	0.055	0.0007		
%RSD:	10.17	10.17	10.17		

Sequence No.: 66

Autosampler Location:

Sample ID: Penara A-6L

Date Collected: 3/5/2014 2:42:43 PM

Analyst:

Data Type: Original

Replicate Data: Penara A-6L

Repl	SampleConc	StndConc	Blncorr	Time	Signal
#	mg/L	mg/L	Signal		Stored
1	0.535	0.535	0.007	14:42:47	No
2	0.553	0.553	0.007	14:42:51	No
3	0.403	0.403	0.005	14:42:56	No
Mean:	0.497	0.497	0.006		
SD:	0.082	0.082	0.0010		
%RSD:	16.41	16.41	16.41		