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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: NensiCu

Method Last Saved: 3/5/2014 12:23:00 PM

Method Description: Cu Determination in Crude Oil Samples

Sequence No.: 25

Autosampler Location:

Sample ID: Blank

Date Collected: 3/5/2014 12:52:53 PM

Analyst:

Data Type: Original

Replicate Data: Blank

Repl #	SampleConc mg/L	StdConc mg/L	BlkCorr Signal	Time	Signal Stored
1		[0.00]	0.052	12:52:55	No
2		[0.00]	0.052	12:52:59	No
3		[0.00]	0.053	12:53:03	No
Mean:		[0.00]	0.052		
SD:		0.00	0.0002		
%RSD:		0.00	0.40		

Auto-zero performed.

Sequence No.: 26

Autosampler Location:

Sample ID: Blank

Date Collected: 3/5/2014 12:53:41 PM

Analyst:

Data Type: Original

Replicate Data: Blank

Repl #	SampleConc mg/L	StdConc mg/L	BlkCorr Signal	Time	Signal Stored
1		[0.00]	-0.001	12:53:42	No
2		[0.00]	-0.001	12:53:47	No
3		[0.00]	-0.001	12:53:51	No
Mean:		[0.00]	-0.001		
SD:		0.00	0.0001		
%RSD:		0.00	8.75		

Auto-zero performed.

Sequence No.: 27

Autosampler Location:

Sample ID: Calib Std 1

Date Collected: 3/5/2014 12:54:23 PM

Analyst:

Data Type: Original

Replicate Data: Calib Std 1

Repl #	SampleConc mg/L	StdConc mg/L	BlkCorr Signal	Time	Signal Stored
1		[1.0]	0.152	12:54:24	No
2		[1.0]	0.155	12:54:29	No
3		[1.0]	0.156	12:54:33	No
Mean:		[1.0]	0.154		
SD:		0.0	0.0019		
%RSD:		0.0	1.20		

Standard number 1 applied. [1.0]

Correlation Coef.: 1.000000 Slope: 0.15408 Intercept: 0.00000

Sequence No.: 28
 Sample ID: Calib Std 2
 Analyst:

Autosampler Location:
 Date Collected: 3/5/2014 12:55:05 PM
 Data Type: Original

Replicate Data: Calib Std 2

Repl #	SampleConc mg/L	StndConc mg/L	Blncorr Signal	Time	Signal Stored
1		[1.3]	0.204	12:55:07	No
2		[1.3]	0.206	12:55:11	No
3		[1.3]	0.207	12:55:15	No
Mean:		[1.3]	0.206		
SD:		0.0	0.0013		
%RSD:		0.0	0.61		
Standard number 2 applied. [1.3]					
Correlation Coef.: 0.995197 Slope: 0.15669 Intercept: 0.00000					

Sequence No.: 29
 Sample ID: Calib Std 3
 Analyst:

Autosampler Location:
 Date Collected: 3/5/2014 12:55:41 PM
 Data Type: Original

Replicate Data: Calib Std 3

Repl #	SampleConc mg/L	StndConc mg/L	Blncorr Signal	Time	Signal Stored
1		[1.4]	0.205	12:55:43	No
2		[1.4]	0.208	12:55:47	No
3		[1.4]	0.209	12:55:51	No
Mean:		[1.4]	0.208		
SD:		0.0	0.0020		
%RSD:		0.0	0.95		
Standard number 3 applied. [1.4]					
Correlation Coef.: 0.977355 Slope: 0.15324 Intercept: 0.00000					

Sequence No.: 30
 Sample ID: Calib Std 4
 Analyst:

Autosampler Location:
 Date Collected: 3/5/2014 12:56:20 PM
 Data Type: Original

Replicate Data: Calib Std 4

Repl #	SampleConc mg/L	StndConc mg/L	Blncorr Signal	Time	Signal Stored
1		[1.6]	0.243	12:56:21	No
2		[1.6]	0.246	12:56:26	No
3		[1.6]	0.245	12:56:30	No
Mean:		[1.6]	0.245		
SD:		0.0	0.0015		
%RSD:		0.0	0.60		
Standard number 4 applied. [1.6]					
Correlation Coef.: 0.989585 Slope: 0.15315 Intercept: 0.00000					

Calibration data for Cu 324.75

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	8.7
Calib Std 1	0.1541	1.0	1.006	0.00	1.2
Calib Std 2	0.2056	1.3	1.343	0.00	0.6
Calib Std 3	0.2075	1.4	1.355	0.00	0.9
Calib Std 4	0.2448	1.6	1.598	0.00	0.6
Correlation Coef.: 0.989585 Slope: 0.15315 Intercept: 0.00000					

Sequence No.: 31
 Sample ID: North Lukut A-1

Autosampler Location:
 Date Collected: 3/5/2014 12:57:18 PM

Analyst: Data Type: Original

Replicate Data: North Lukut A-1

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.101	0.101	0.015	12:57:19	No
2	0.100	0.100	0.015	12:57:23	No
3	0.102	0.102	0.016	12:57:28	No
Mean:	0.101	0.101	0.015		
SD:	0.001	0.001	0.0001		
%RSD:	0.556	0.556	0.56		

Sequence No.: 32

Autosampler Location:

Sample ID: North Lukut A-2

Date Collected: 3/5/2014 12:58:02 PM

Analyst:

Data Type: Original

Replicate Data: North Lukut A-2

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.106	0.106	0.016	12:58:04	No
2	0.108	0.108	0.017	12:58:08	No
3	0.108	0.108	0.016	12:58:13	No
Mean:	0.107	0.107	0.016		
SD:	0.001	0.001	0.0001		
%RSD:	0.799	0.799	0.80		

Sequence No.: 33

Autosampler Location:

Sample ID: North Lukut A-3

Date Collected: 3/5/2014 12:58:48 PM

Analyst:

Data Type: Original

Replicate Data: North Lukut A-3

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.103	0.103	0.016	12:58:49	No
2	0.103	0.103	0.016	12:58:54	No
3	0.103	0.103	0.016	12:58:58	No
Mean:	0.103	0.103	0.016		
SD:	0.000	0.000	0.0000		
%RSD:	0.183	0.183	0.18		

Sequence No.: 34

Autosampler Location:

Sample ID: North Lukut A-5

Date Collected: 3/5/2014 12:59:25 PM

Analyst:

Data Type: Original

Replicate Data: North Lukut A-5

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal Stored
1	0.170	0.170	0.026	12:59:27	No
2	0.171	0.171	0.026	12:59:31	No
3	0.173	0.173	0.027	12:59:35	No
Mean:	0.172	0.172	0.026		
SD:	0.001	0.001	0.0002		
%RSD:	0.765	0.765	0.77		

Sequence No.: 35

Autosampler Location:

Sample ID: North Lukut A-6

Date Collected: 3/5/2014 1:00:00 PM

Analyst:

Data Type: Original

Replicate Data: North Lukut A-6

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Time	Signal

#	mg/L	mg/L	Signal		Stored
1	0.122	0.122	0.019	13:00:02	No
2	0.120	0.120	0.018	13:00:06	No
3	0.122	0.122	0.019	13:00:11	No
Mean:	0.122	0.122	0.019		
SD:	0.001	0.001	0.0001		
%RSD:	0.787	0.787	0.79		

Sequence No.: 36

Autosampler Location:

Sample ID: Penara A-2

Date Collected: 3/5/2014 1:00:38 PM

Analyst:

Data Type: Original

Replicate Data: Penara A-2

Repl	SampleConc	StndConc	Blncorr	Time	Signal
#	mg/L	mg/L	Signal		Stored
1	0.097	0.097	0.015	13:00:40	No
2	0.097	0.097	0.015	13:00:44	No
3	0.097	0.097	0.015	13:00:48	No
Mean:	0.097	0.097	0.015		
SD:	0.000	0.000	0.0000		
%RSD:	0.216	0.216	0.22		

Sequence No.: 37

Autosampler Location:

Sample ID: Penara A-5L

Date Collected: 3/5/2014 1:01:12 PM

Analyst:

Data Type: Original

Replicate Data: Penara A-5L

Repl	SampleConc	StndConc	Blncorr	Time	Signal
#	mg/L	mg/L	Signal		Stored
1	0.094	0.094	0.014	13:01:14	No
2	0.095	0.095	0.015	13:01:18	No
3	0.095	0.095	0.015	13:01:22	No
Mean:	0.095	0.095	0.015		
SD:	0.000	0.000	0.0000		
%RSD:	0.249	0.249	0.25		

Sequence No.: 38

Autosampler Location:

Sample ID: Penara A-6L

Date Collected: 3/5/2014 1:01:46 PM

Analyst:

Data Type: Original

Replicate Data: Penara A-6L

Repl	SampleConc	StndConc	Blncorr	Time	Signal
#	mg/L	mg/L	Signal		Stored
1	0.112	0.112	0.017	13:01:48	No
2	0.112	0.112	0.017	13:01:52	No
3	0.112	0.112	0.017	13:01:57	No
Mean:	0.112	0.112	0.017		
SD:	0.000	0.000	0.0000		
%RSD:	0.204	0.204	0.20		