Ap.16 X線回折結果一覧表

Ap. 16 Lista de Resultado de Analisis Difractario Rayo-X

No.	No. de muestra	Tipo de muestra \ Minerales	Quarzo	K-feldespato	Calcita	Ankerita	Dolomita	Kutnahorita	Rodocrocita	Goethita	Todorokita	7 ° A- MnO_2	Hollandita	Psilomelano	Pirolusita	Yeso	Pirita	Manganita	Smectita	Sericita	Sericita/Smectita	Clorita	Kaolinita	
1	①-A-1	Veta	4													4								
2	①-A-2	"	4		4						2	2												
3	①-G	Ganga	4	3												2			2	1	1	2		
4	②-A	Veta	4		1									1									1	
5	②-G	Ganga	4								2					3	2					2		
6	③-A	Veta	4		1									1										
7	④-A	"	4		1										2									
8	④-G	Ganga	3	2	3					1						1			3	1		1		
9	⑤-A	Veta	4		1																			
10	⑥-A-1	"	4	2													1				1	2		
11	⑥-A-2	"	4				4																	
12	⑦-A-1	"	4		2		2									1								
13	⑦-A-2	"	4		2										4	1								
14	⑦-G	Ganga	2		4						1					1								
15	⑧-A	Veta	4		2	1						1				1								
16	⑧-G	Ganga	2					4								2				2		2		
17	⑨-A-1	Veta	4						3															
18	⑨-A-2	"	4		2				2		2				1									
19	⑨-B	Caballo	4					2	1		1					2								
20	⑨-G	Ganga	4	2													1				2	2		
21	⑩-F	Aliment. para planta	4		2			2		2	1	1		1		1				1				
22	⑩-T	Cola de planta	4		2			2		1	1	1		1		1				1	1?			
23	⑪-F	Aliment. para playa	4	1	3								2		2	2				1	1			
24	⑪-T	Cola de playa	4	2	3							1				2				1	1			
25	⑫	Mineral crudo (mixt)	4		2			2	2		1			1	1			1						
26	⑬	Mineral blanco	4					3				1					1							
27	⑭	Mineral negro	2		4						2			1										
28	⑮	Atractado mag. (5000G)	4					3			1				1	1	1	1						

Cantidad : 4 Abundante 3 Medio 2 Poco 1 Escaso

Ａｐ．１６　Ｘ線回折分析

Tab.1 及びＸ線回折チャート参照

なお，Ｘ線回折用試料は顕微鏡観察用試料から分取したものではなく，独立して採取された。従って両者は必ずしも１：１で対応しない。

ア．シリカ鉱物では石英が普遍的に認められ，供試料全てに検出された。

イ．粘土鉱物は出現頻度の多い順に絹雲母（７），緑泥石（６），絹雲母／スメクタイト混合層鉱物（５），スメクタイト（２）及びカオリナイト（１）が出現する。

ウ．炭酸塩鉱物は５種類認められ，特に方解石はほぼ普遍的に存在し15試料に出現する。次いで，クトナホライト（４），菱マンガン鉱（３），ドロマイト（２）及びアンケライト（１）が各々検出された。

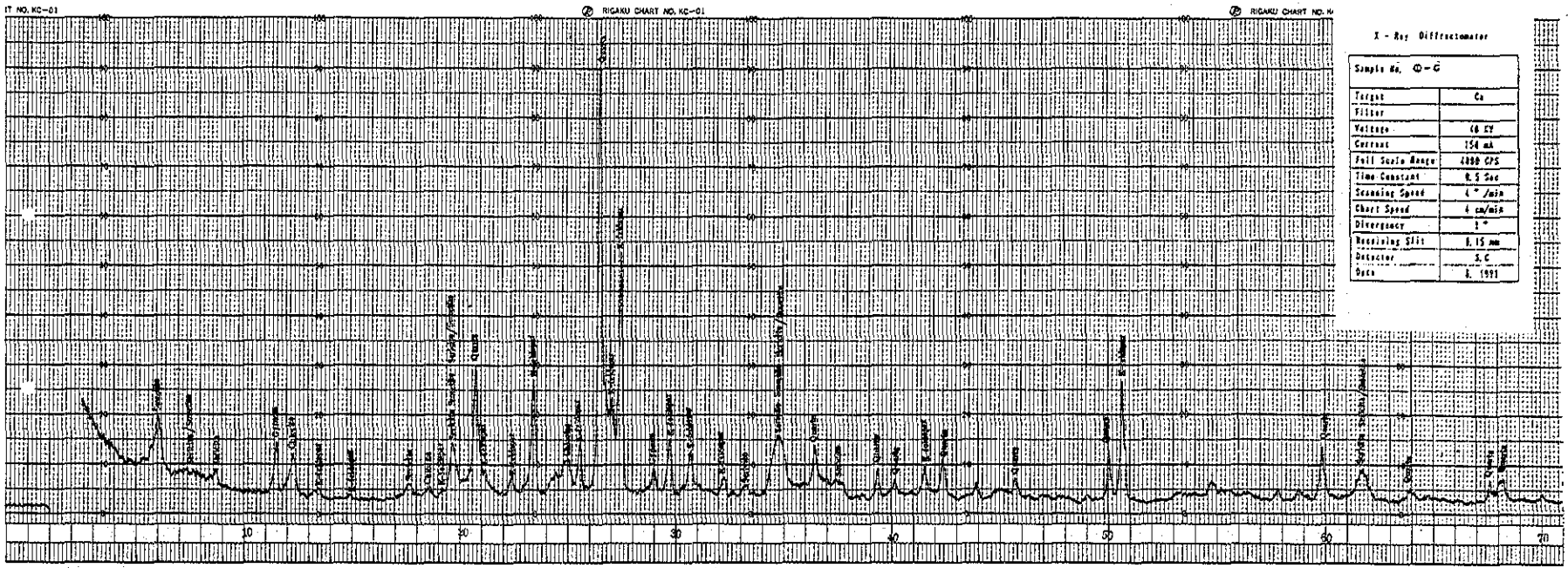
エ．硫酸塩鉱物として石膏が14試料に認められ，高い出現率を示す。本地域の特徴的な変質鉱物と考えられる。

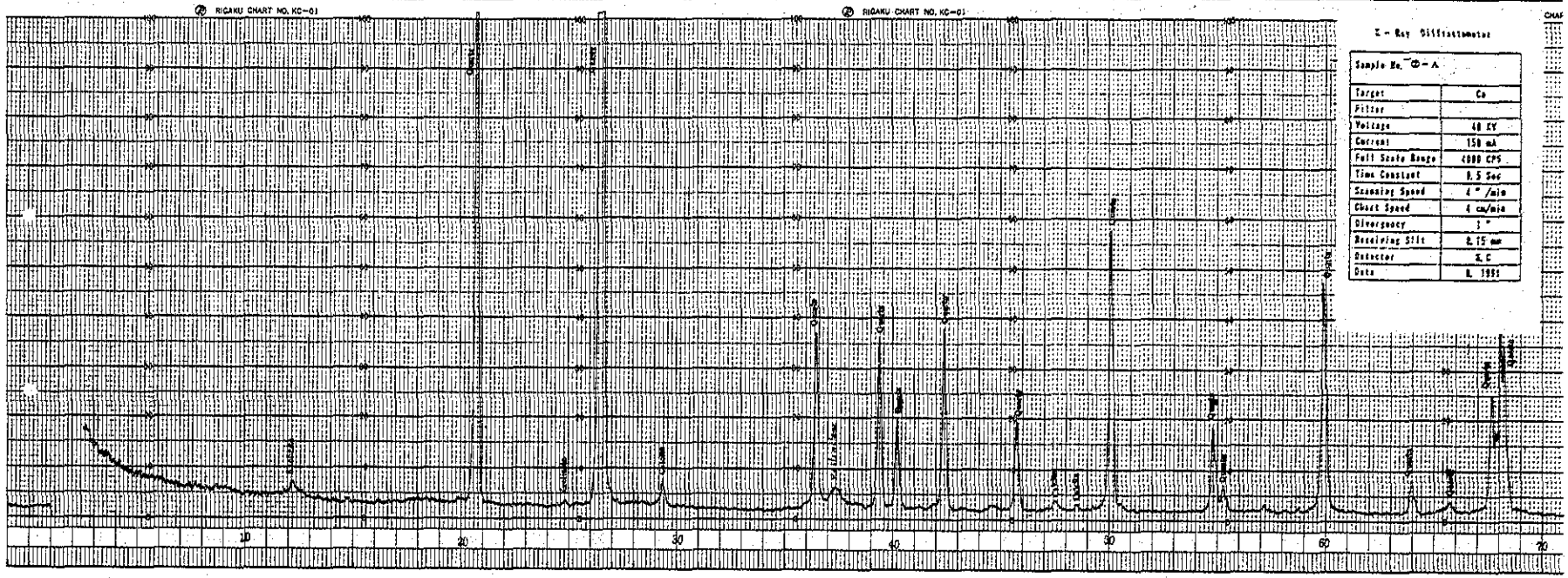
オ．Ｍｎ酸化物は５種類が認められた。出現頻度の多い順に，Todorokite（７），７－MnO_2（５），Pyrolusite［軟マンガン鉱］（４），Psilomelane（４）及びHollandite（１）よりなる。ただし，全体に回折ピークは弱く，該当ピークは１～２本で鉱物判定を行っており，他鉱物に比べ解析精度は劣る。なお，Hollanditeはクリプトメレーン族に含まれる。

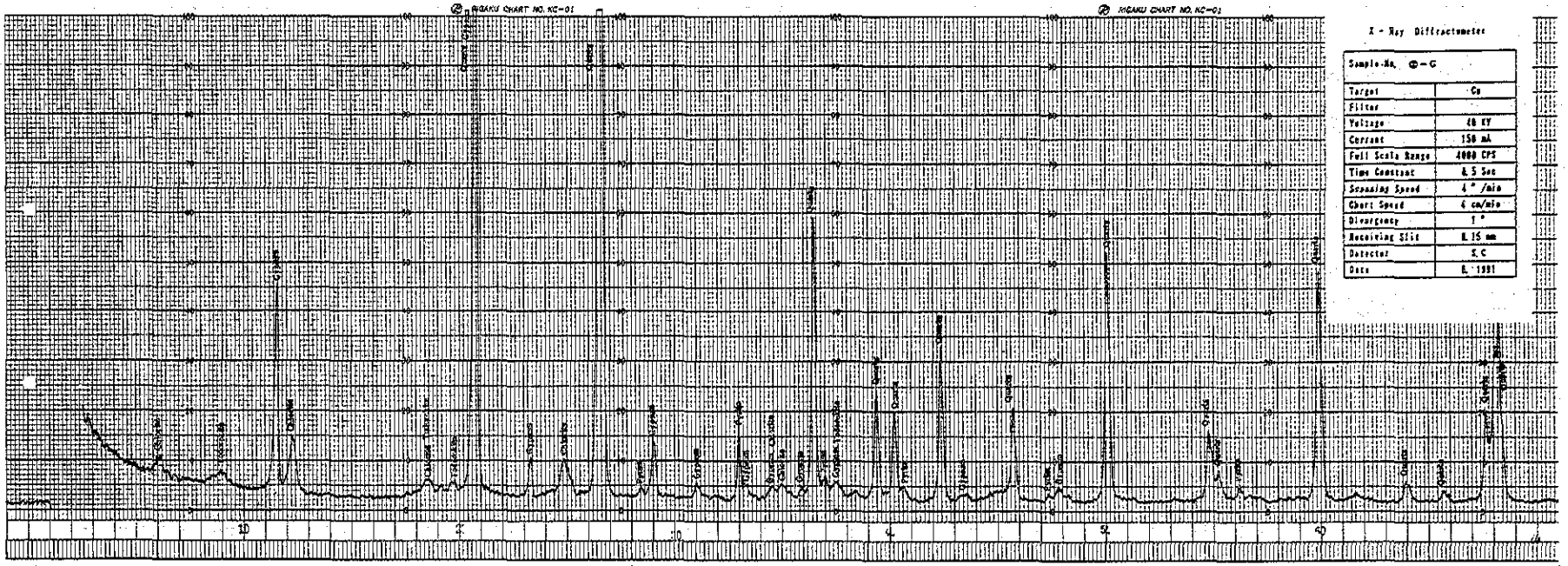
カ．鉄鉱物は黄鉄鉱及び針鉄鉱が出現する。

キ．その他として，カリ長石が母岩を中心に６試料より検出された。ただし，原岩が不明のため，検出されたカリ長石が初生鉱物か変質鉱物かの判断は不可。

X - Ray Diffractometer
Sample No. Φ-A-1
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 1 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991
RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. Φ-A-2
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constrod 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 1 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991
RIGAKU CHART NO. KC-01

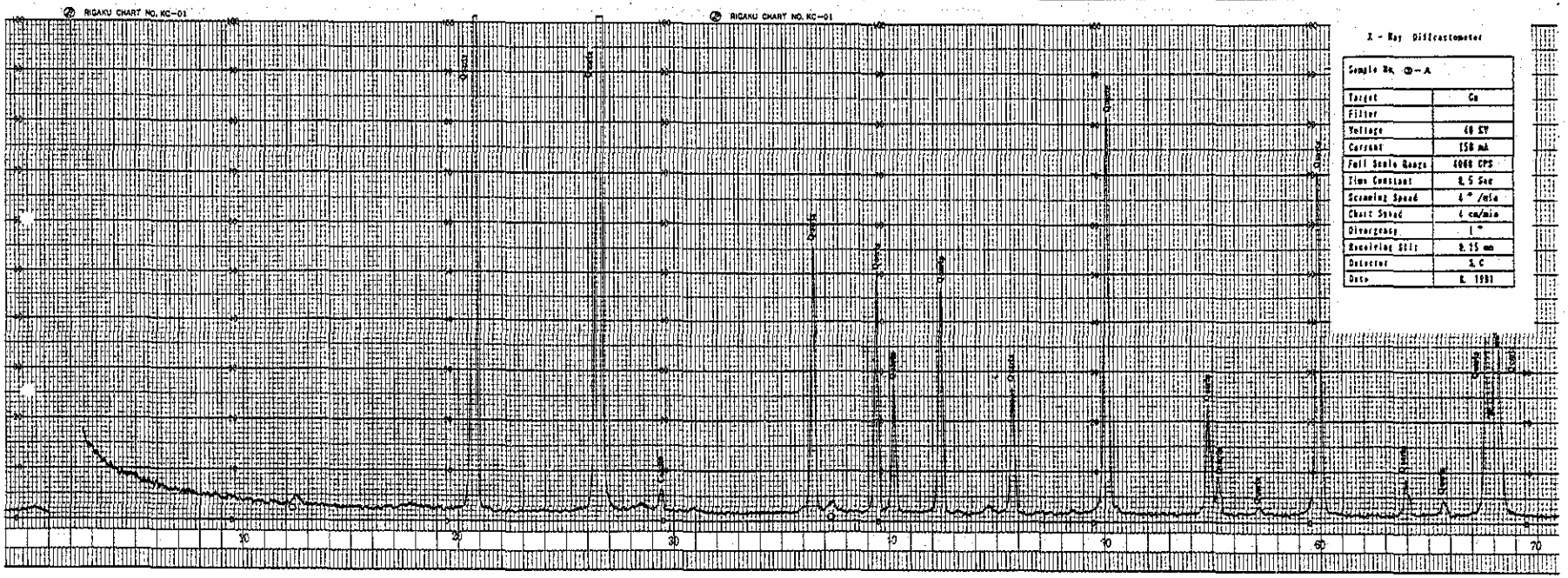

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. Φ-G
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. Φ-A
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991



X - Ray Diffractometer

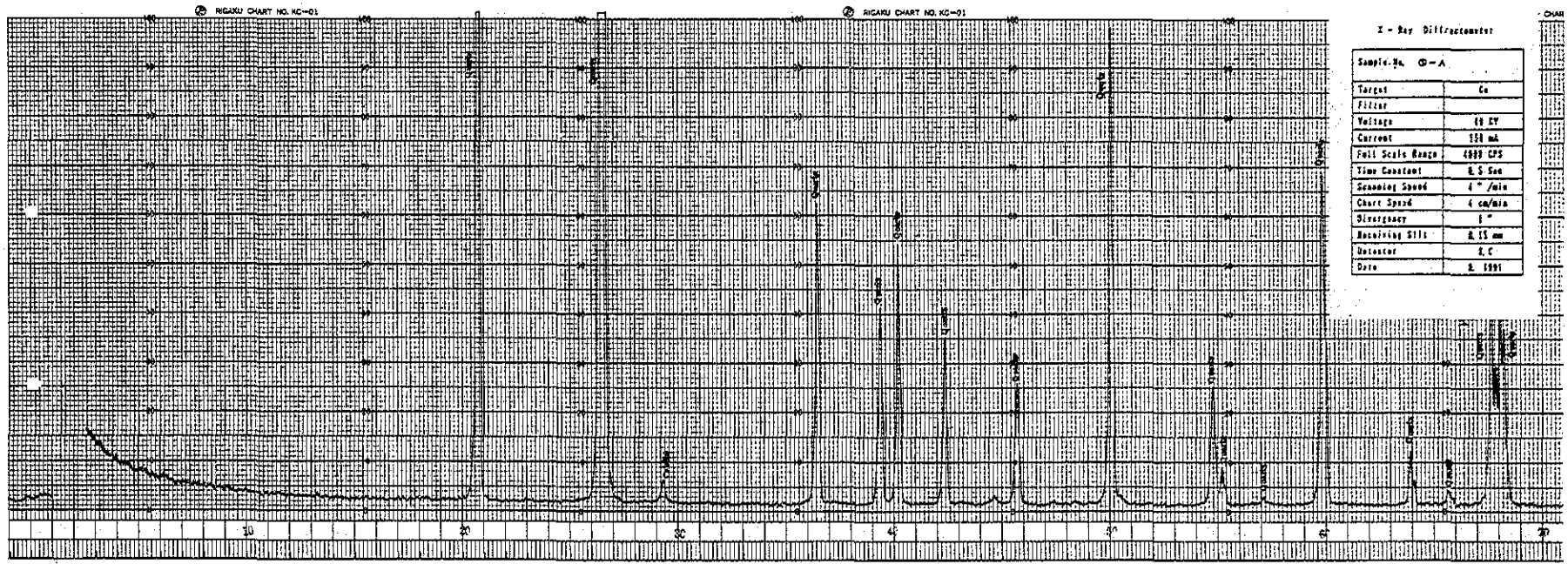
Sample No. ⑥ - C	
Target	Cu
Filter	
Voltage	40 KV
Current	150 mA
Full Scale Range	4000 CPS
Time Constant	0.5 Sec
Scanning Speed	4 °/min
Chart Speed	4 cm/min
Divergency	1 °
Receiving Slit	0.15 mm
Detector	S.C
Date	8. 1981

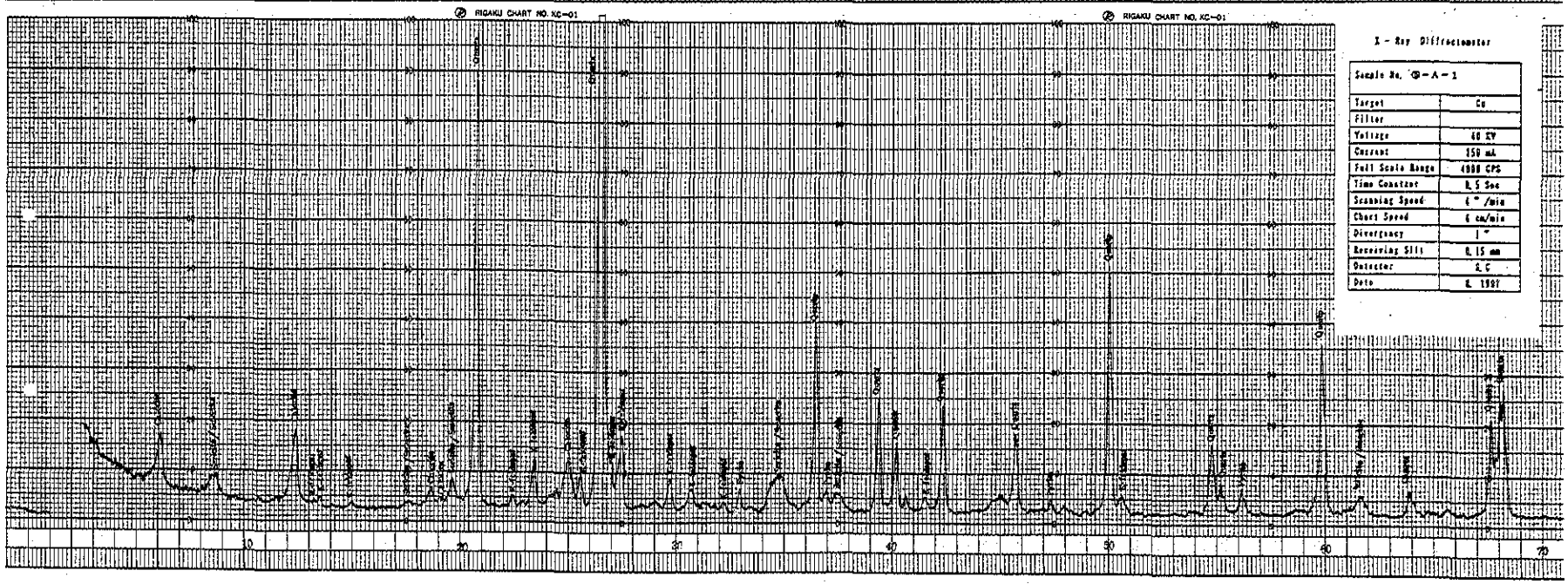


X - Ray Diffractometer

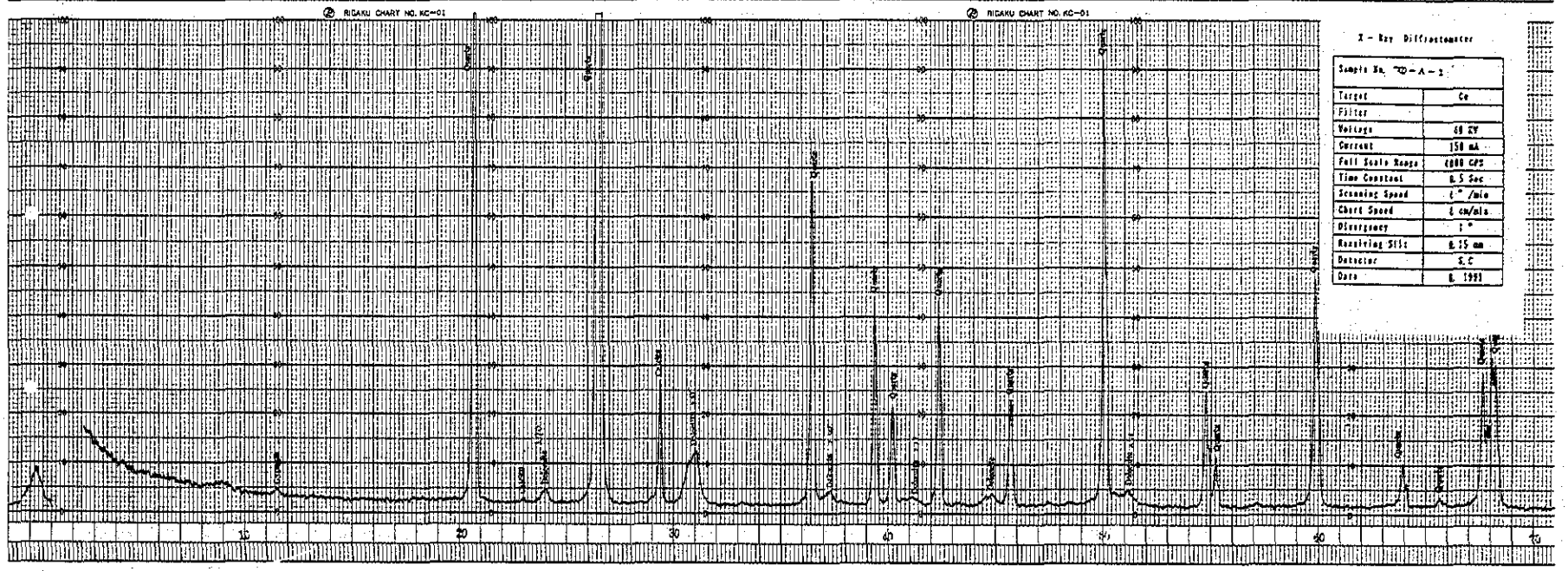
Sample No. ⑥ - A	
Target	Cu
Filter	
Voltage	40 KV
Current	150 mA
Full Scale Range	4000 CPS
Time Constant	0.5 Sec
Scanning Speed	4 °/min
Chart Speed	4 cm/min
Divergency	1 °
Receiving Slit	0.15 mm
Detector	S.C
Date	8. 1981

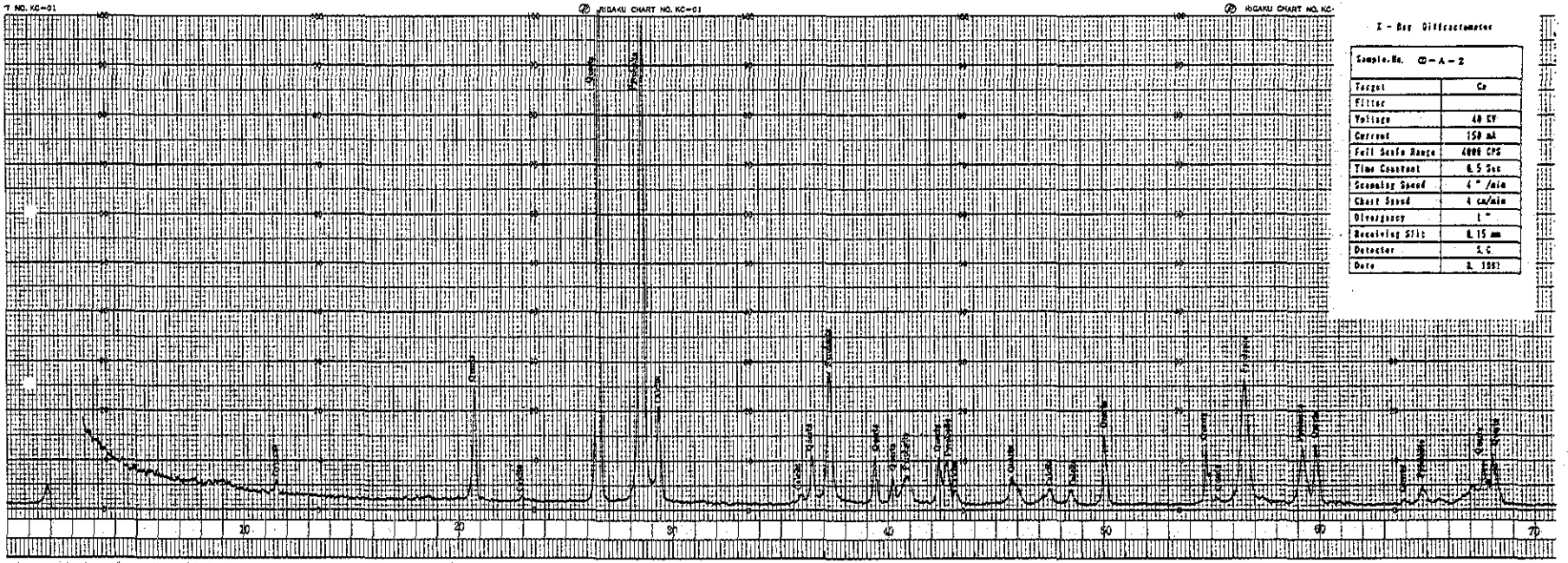
X - Ray Diffractometer
Sample No. Φ-A
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergence 1°
Receiving Slit 0.15 mm
Detector S.C
Date 6. 1991
RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. Φ-C
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergence 1°
Receiving Slit 0.15 mm
Detector S.C
Date 6. 1991
RIGAKU CHART NO. KC-01


RIGAKU CHART NO. XC-01
X - Ray Diffractometer
Sample No. ⑩-A
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991

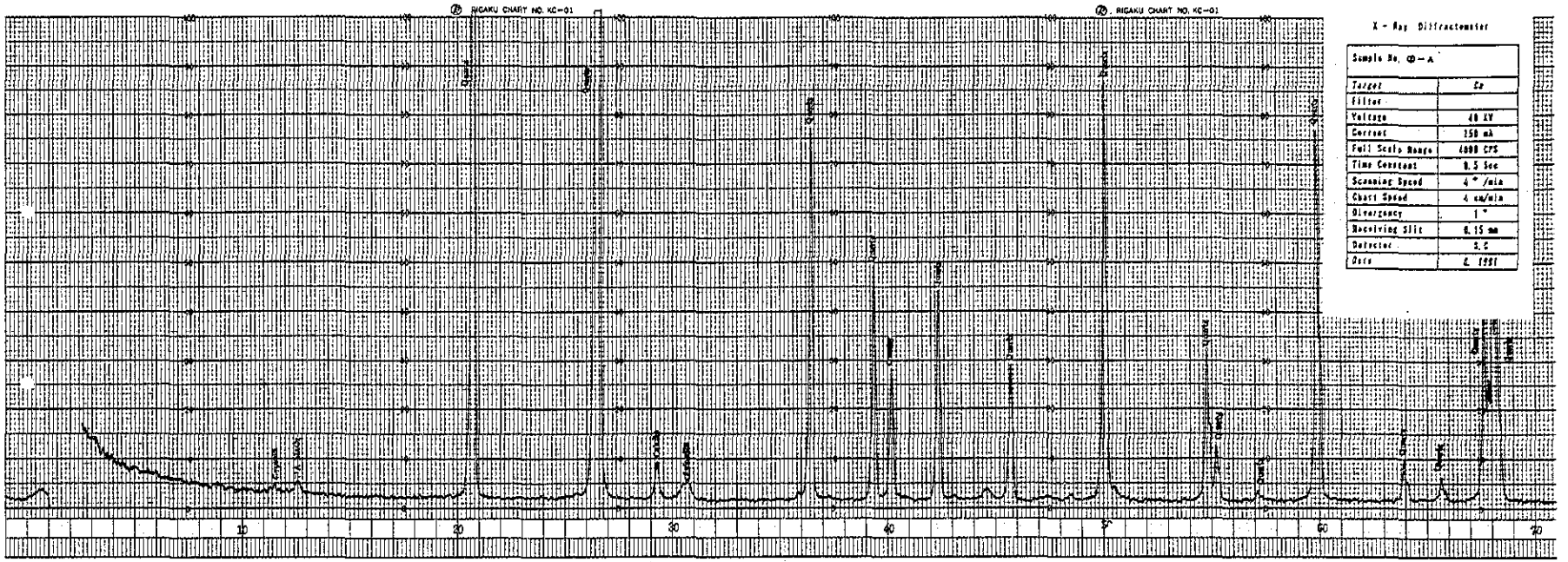

RIGAKU CHART NO. XC-01
X - Ray Diffractometer
Sample No. ⑩-A-1
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991

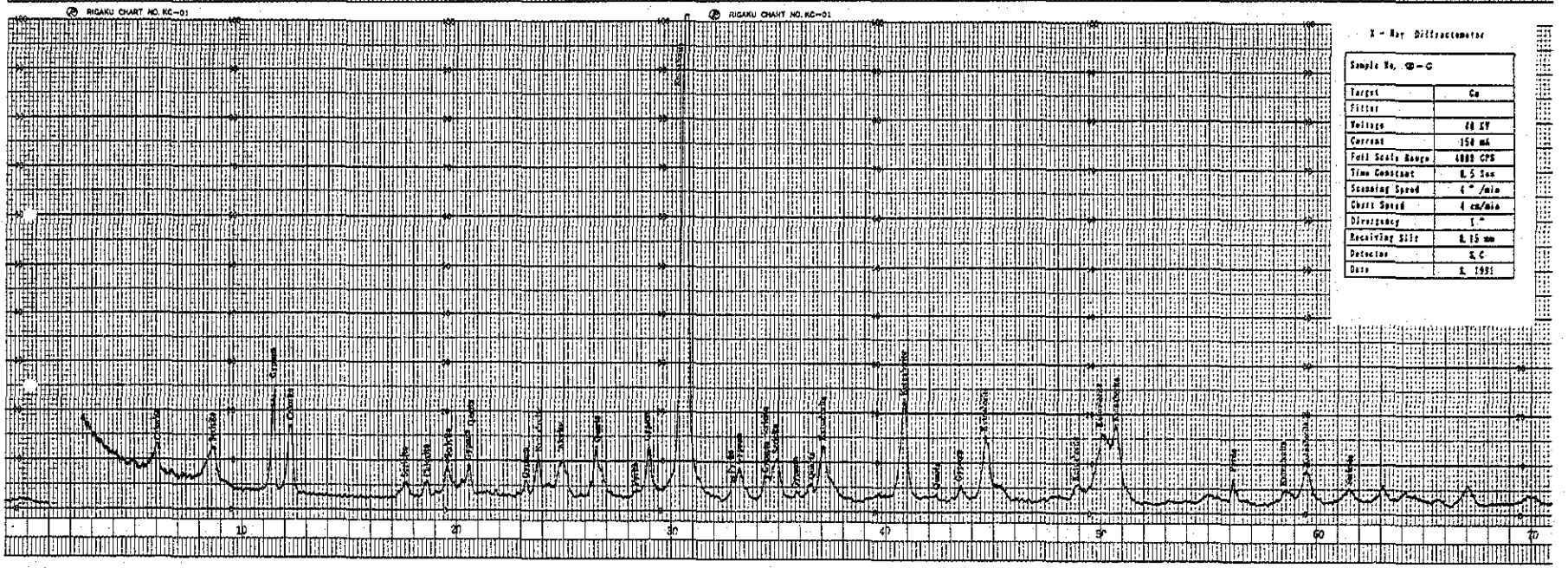

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑩ - A - 2
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 1 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 6. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑩ - A - 1
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 1 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 6. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑫ - A - 2
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 ° /min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S. C
Date X. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑫ - C
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 ° /min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S. C
Date X. 1991

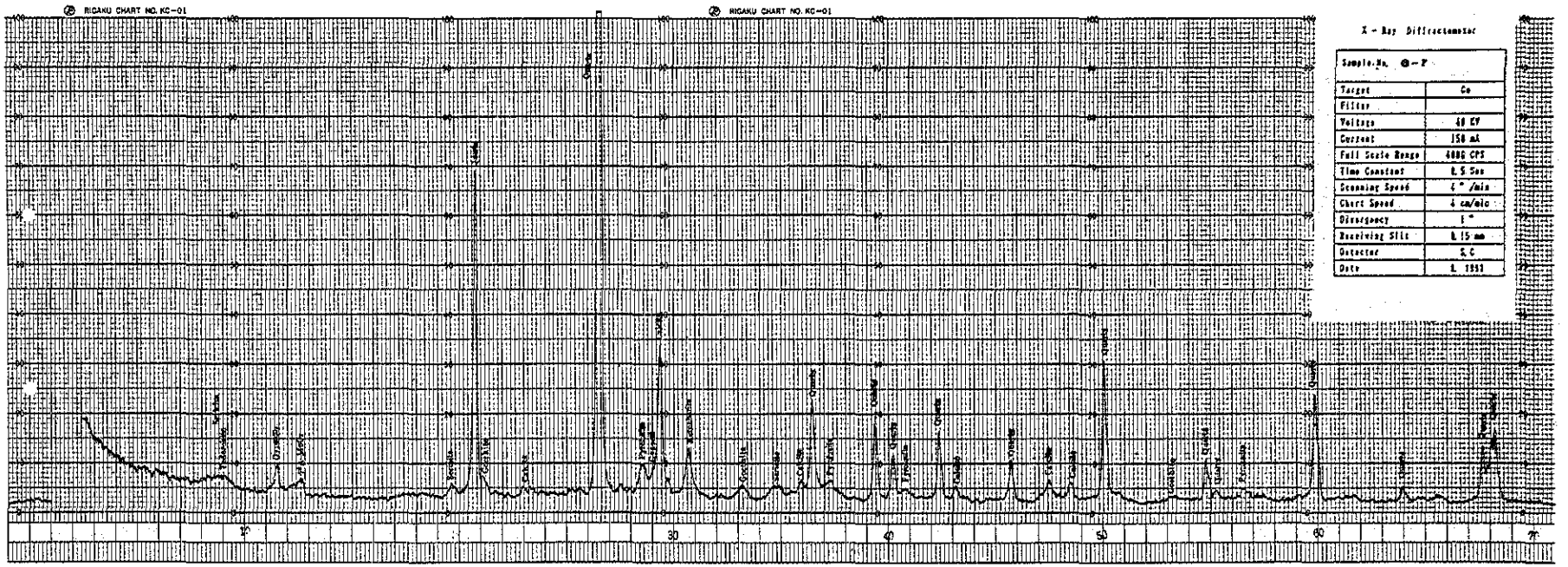

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ②－A
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 2. 1991

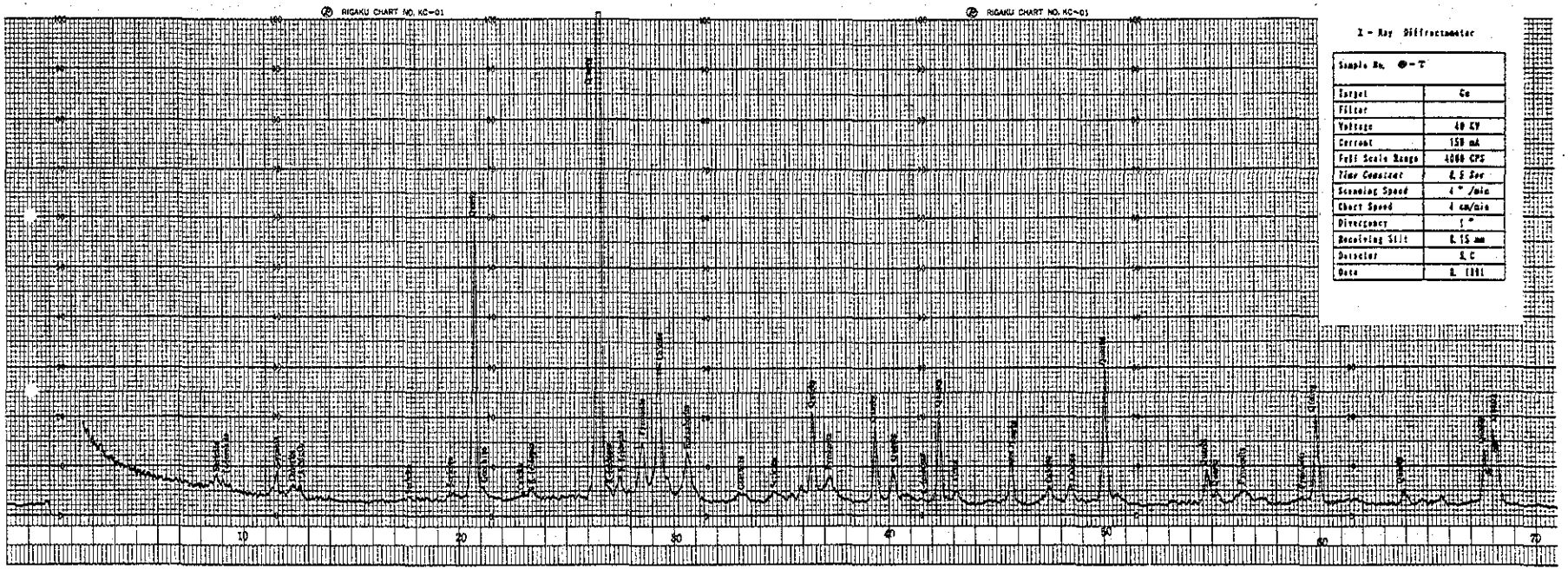

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ②－C
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 2. 1991

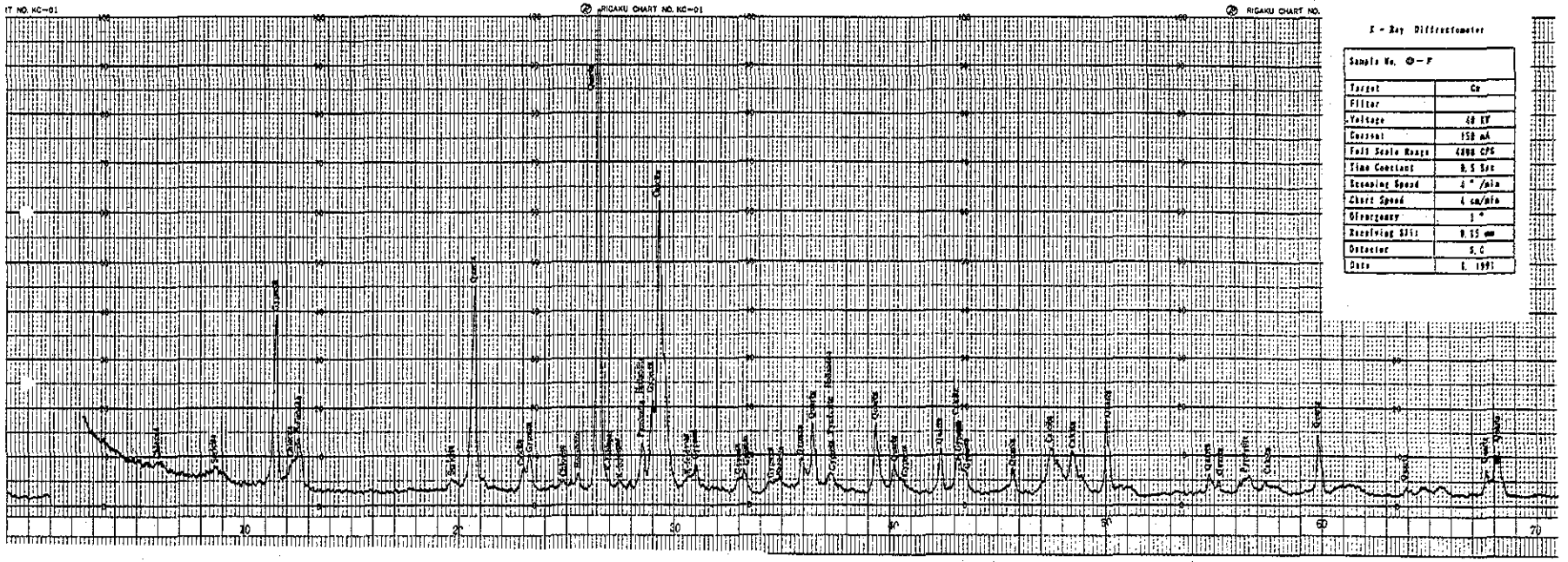

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑧－A－1
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1981

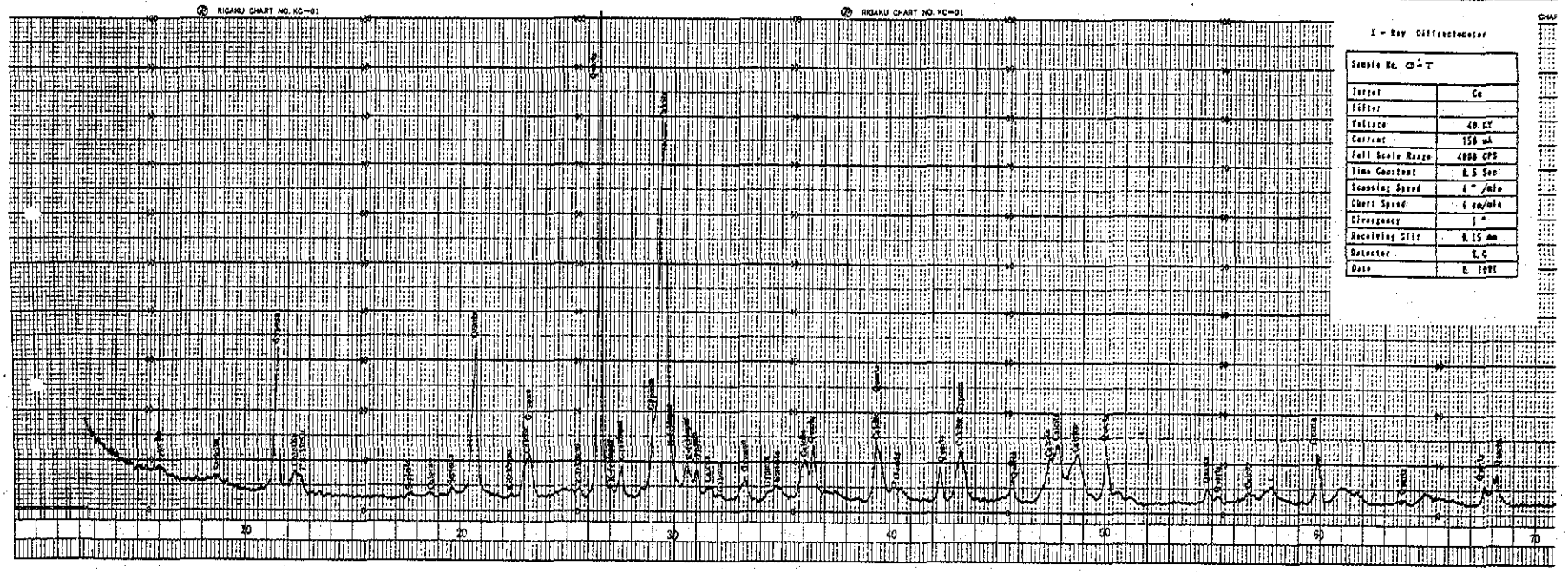

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑧－A－2
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1981

X-Ray Diffractometer
Sample No. ⑧-B
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 1°/min
Chart Speed 1 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991
RIGAKU CHART NO. XC-01
RIGAKU CHART NO. XC-01
X-Ray Diffractometer
Sample No. ⑧-G
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 1°/min
Chart Speed 1 cm/min
Divergency 1°
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991
RIGAKU CHART NO. XC-01
RIGAKU CHART NO. XC-01

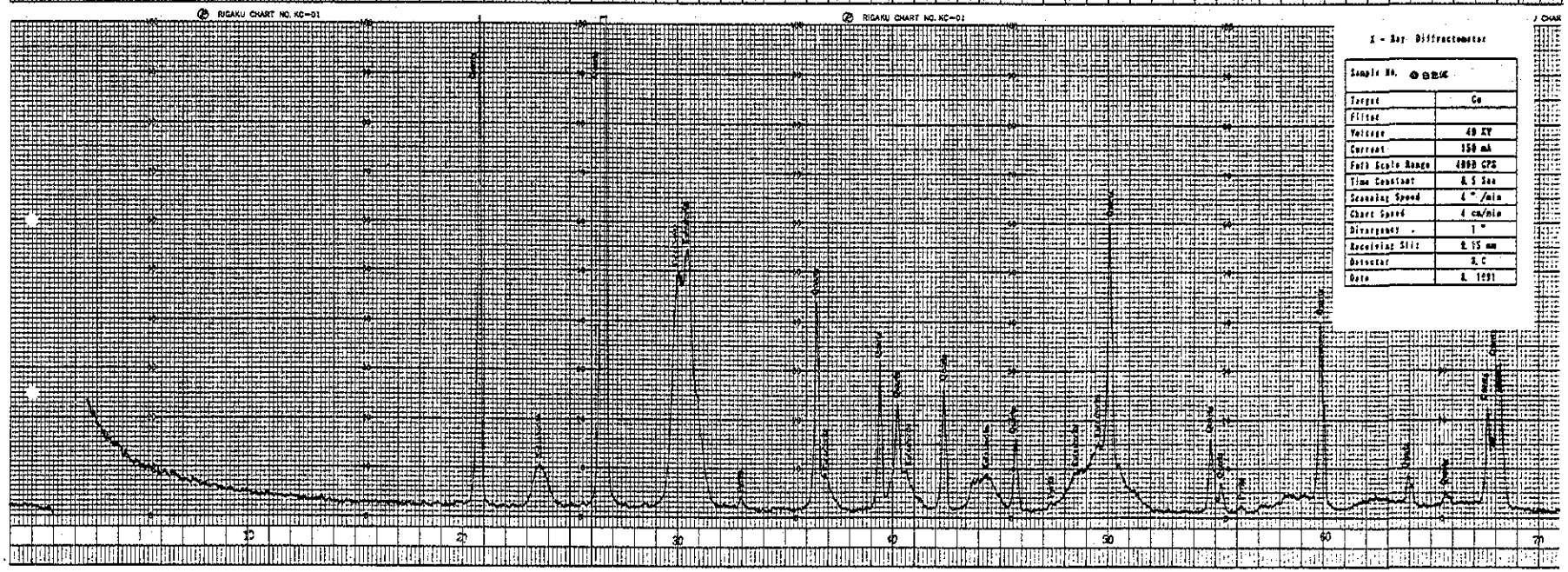

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑧-F
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 0. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⑧-T
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 0. 1991

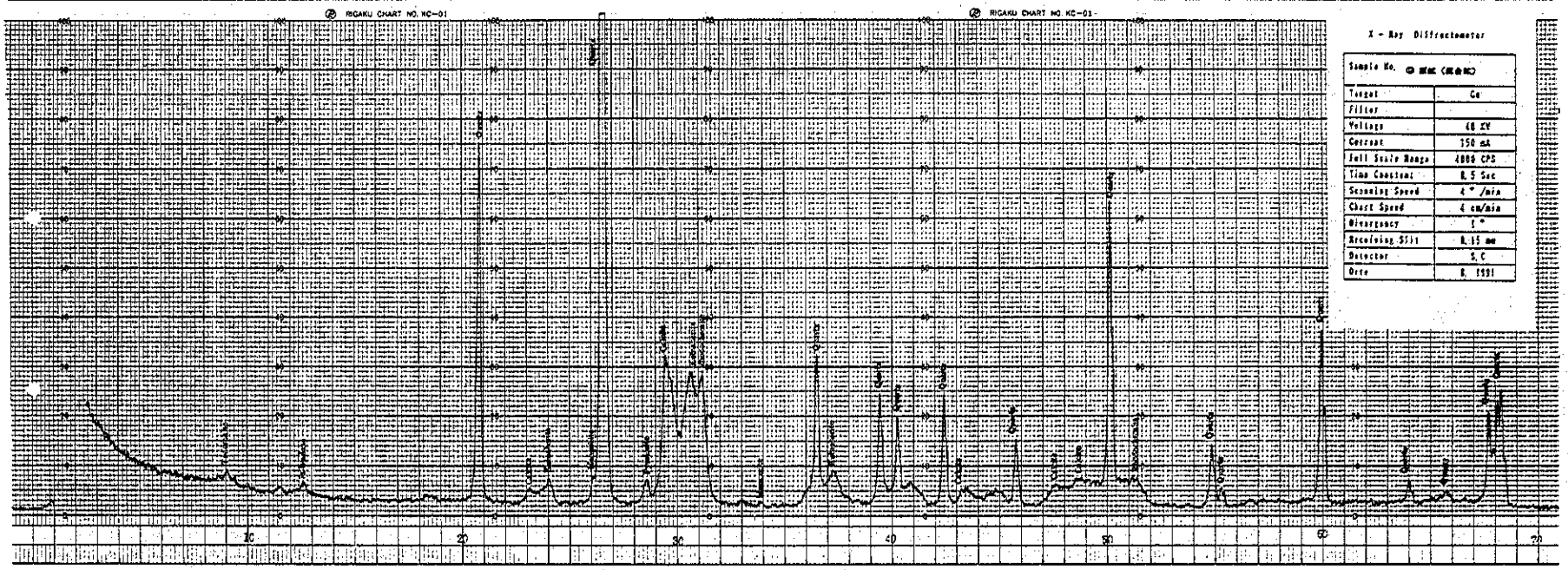

RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⊙ - F
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S. C
Date 8. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Sample No. ⊙ - T
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S. C
Date 8. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991


RIGAKU CHART NO. KC-01
X - Ray Diffractometer
Target Cu
Filter
Voltage 40 KV
Current 150 mA
Full Scale Range 4000 CPS
Time Constant 0.5 Sec
Scanning Speed 4 °/min
Chart Speed 4 cm/min
Divergency 1 °
Receiving Slit 0.15 mm
Detector S.C
Date 8. 1991

Ap.17 鉱石化学分析結果一覧表

Ap. 17 Resultado de Analisis Quimica de Muestras

No.	No. de Muestra	Au g/t	Ag g/t	Mn %	Cu ppm	Fe %	As ppm	Sb ppm	Bi ppm	Hg ppb	S %	SiO_2 %	Pb ppm	Zn ppm	Ti ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Pr ppm	T-RE ppm	Analisis Argentina Au g/t	Ag g/t	Mn %	Nota
1	①-A-1	6.7	118.0	12.0	231	0.51	57	69	<1	1,034	1.8	53.9	--	--	--	--	--	--	--	--	--	6.1	109	--	
2	①-A-2	8.0	81.0	6.0	164	0.79	34	40	<1	600	0.12	52.0	--	--	--	--	--	--	--	--	--	8.0	93	3.6	
3	①-G	1.1	38.5	0.91	23	5.0	102	3	<1	131	2.3	52.7	--	--	--	--	--	--	--	--	--	0.8	50	0.2	
4	②-A	2.3	168.0	9.9	409	0.47	68	173	<1	71	0.05	68.2	--	--	--	--	--	--	--	--	--	1.7	157	--	
5	②-G	1.7	18.7	1.6	38	2.4	74	6	<1	59	4.3	58.6	--	--	--	--	--	--	--	--	--	0.5	14	--	
6	③-A	10.3	298.3	13.5	559	0.52	50	55	<1	12	0.06	60.5	--	--	--	--	--	--	--	--	--	10.0	1,140	--	
7	④-A	8.7	112.7	14.7	49	0.37	17	13	<1	36	0.04	70.1	--	--	--	--	--	--	--	--	--	7.8	110	13.4	
8	④-G	2.0	11.5	0.91	6	4.8	96	1	<1	22	1.2	48.3	--	--	--	--	--	--	--	--	--	2.2	12	0.1	
9	⑤-A	13.0	338.0	3.7	785	0.98	165	302	<1	96	0.10	74.6	--	--	--	--	--	--	--	--	--	9.7	311	--	
10	⑥-A-1	2.0	19.0	6.5	19	1.5	45	15	<1	24	0.20	26.9	--	--	--	--	--	--	--	--	--	2.3	22	--	
11	⑥-A-2	3.3	120.3	12.8	215	0.28	26	57	<1	24	0.19	37.9	--	--	--	--	--	--	--	--	--	2.9	104	--	
12	⑦-A-1	1.5	125.3	10.3	157	0.42	48	55	<1	24	0.17	52.0	248	268	74	0.6	1.1	1.8	0.7	0.2	5.8	1.7	124	4.0	
13	⑦-A-2	9.0	66.0	11.8	34	0.45	14	13	<1	59	0.41	65.5	141	204	116	0.8	0.8	1.3	0.1	0.6	7.8	8.3	60	8.6	
14	⑦-G	1.0	12.0	2.7	24	2.0	34	4	<1	11	0.38	11.4	357	2,066	1,039	11.8	4.8	8.5	1.1	4.3	45.7	0.7	15	1.5	
15	⑧-A	3.3	38.7	3.3	80	1.0	99	173	<1	88	0.12	58.5	--	--	--	--	--	--	--	--	--	3.6	57	--	
16	⑧-G	0.1	3.1	1.2	45	4.5	144	2	<1	70	3.1	29.7	--	--	--	--	--	--	--	--	--	0.3	4	--	
17	⑨-A-1	1.5	50.7	11.5	93	0.36	16	15	<1	80	0.24	50.1	--	--	--	--	--	--	--	--	--	1.9	55	--	
18	⑨-A-2	4.7	35.7	7.7	30	0.36	22	11	<1	12	0.05	37.0	--	--	--	--	--	--	--	--	--	4.7	30	--	
19	⑨-B	4.3	143.7	4.8	183	1.8	136	50	<1	12	1.1	77.1	--	--	--	--	--	--	--	--	--	3.4	25	--	
20	⑨-G	0.3	4.7	0.66	27	5.3	195	4	<1	9	2.2	54.2	--	--	--	--	--	--	--	--	--	0.3	4	--	
21	⑩-F	5.7	103.7	9.1	243	3.9	385	115	<1	214	1.1	48.0	--	--	--	--	--	--	--	--	--	--	--	--	Cabeza de Planta
22	⑩-T	1.1	79.9	9.0	194	3.4	372	103	<1	170	0.40	50.0	--	--	--	--	--	--	--	--	--	--	--	--	Cola de Planta
23	⑪-F	1.4	79.1	5.8	166	2.7	100	29	<1	237	1.8	37.0	--	--	--	--	--	--	--	--	--	--	--	--	Cabeza de Playa
24	⑪-T	1.3	55.2	4.8	143	2.1	77	20	<1	139	2.2	33.3	--	--	--	--	--	--	--	--	--	--	--	--	Cola de Playa
25	⑫	7.6	144.6	11.8	200	0.83	74	37	<1	26	0.12	44.8	--	--	--	--	--	--	--	--	--	--	--	--	Mixto
26	⑬	10.0	162.0	15.8	245	0.61	67	34	<1	15	0.20	50.0	--	--	--	--	--	--	--	--	--	--	--	--	Blanco
27	⑭	7.3	147.0	14.8	150	1.10	45	40	<1	35	0.15	37.2	--	--	--	--	--	--	--	--	--	--	--	--	Negro
28	⑮	4.8	244	43.1	80	0.55	60	55	<1	60	0.10	18.0	--	--	--	--	--	--	--	--	--	--	--	--	5000G Mag