

**online Table 1.** Individual electron microprobe analyses

EMPA analyses							
	1*	2	3	4	5		
Pt	77.40	77.67	77.78	78.27	78.84		
Fe	9.23	9.20	9.10	9.08	9.41		
Ir	8.60	8.64	8.46	8.26	8.26		
Rh	0.98	0.96	0.95	1.03	0.97		
Cu	0.45	0.49	0.47	0.47	0.49		
Ni	1.00	1.01	1.01	0.99	1.03		
Ru	0.13	0.11	0.11	0.13	0.09		
Co	0.02	0.02	0.01	0.02	0.02		
Total	97.81	98.10	97.89	98.25	99.11		
normalized values							
	1	2	3	4	5	average	stdev
Pt	79.13	79.17	79.46	79.67	79.55	79.4	0.2
Fe	9.44	9.38	9.30	9.24	9.49	9.4	0.1
Ir	8.79	8.81	8.64	8.41	8.33	8.6	0.2
Rh	1.00	0.98	0.97	1.05	0.98	1.00	0.03
Cu	0.46	0.50	0.48	0.48	0.50	0.48	0.02
Ni	1.02	1.03	1.03	1.01	1.04	1.03	0.01
Ru	0.13	0.11	0.11	0.13	0.09	0.12	0.02
Co	0.02	0.02	0.01	0.02	0.02	0.018	0.005
Total	100.00	100.00	100.00	100.00	100.00	100.00	

\* values in wt%

**online Table 2.** Individual APT analyses

Uncorrected						Background Correct	
Sample	Ion Type	Ion Count	Ionic Fraction	Ionic Fraction (sigma)	Background Count	Ion Count	Ion Fract
<b>743</b>	Fe	318433	0.263538	5.25E-04	1899	316534	0.264
	Pt	730428	0.604508	8.96E-04	3829	726599	0.606
	Ir	89050	0.073698	2.56E-04	1183	87867	0.073
	Au	211	0.000175	1.20E-05	223	-12	0.000
	Rh	15454	0.012790	1.04E-04	502	14952	0.012
	Ru	4505	0.003728	5.57E-05	804	3701	0.003
	Ni	33648	0.027847	1.54E-04	1588	32060	0.026
	Cu	15653	0.012955	1.04E-04	663	14990	0.012
	Ga	318	0.000263	1.48E-05	229	89	0.000
	Co	602	0.000498	2.03E-05	207	395	0.000
<b>745</b>	Fe	981956	0.257431	2.91E-04	2012	979944	0.257
	Pt	2251747	0.590321	4.96E-04	3186	2248561	0.591
	Ir	296047	0.077612	1.48E-04	996	295051	0.077
	Au	41299	0.010827	5.36E-05	236	41063	0.010
	Rh	47753	0.012519	5.76E-05	532	47221	0.012
	Ru	10306	0.002702	2.67E-05	852	9454	0.002
	Ni	100666	0.026391	8.43E-05	1826	98840	0.025
	Cu	45137	0.011833	5.60E-05	902	44235	0.011
	Ga	14713	0.003857	3.19E-05	242	14471	0.003
	Co	1376	0.000361	9.73E-06	219	1157	0.000
	Os	23446	0.006147	4.03E-05	1139	22307	0.005
<b>746</b>	Fe	2212305	0.267396	2.02E-04	3191	2209114	0.267
	Pt	5002586	0.604650	3.42E-04	5054	4997532	0.605
	Ir	517970	0.062606	8.97E-05	1580	516390	0.062
	Au	61009	0.007374	3.00E-05	375	60634	0.007
	Rh	96981	0.011722	3.79E-05	844	96137	0.011

**online Table 2. (continued)**

Uncorrected						Background Correct	
Sample	Ion Type	Ion Count*	Ionic Fraction	Ionic Fraction (sigma)	Back-ground Count	Ion Count	Ionic Fraction
<b>746 (cont.)</b>	Ru	11890	0.001437	1.32E-05	1351	10539	0.001
	Ni	229042	0.027684	5.86E-05	2897	226145	0.027
	Cu	110512	0.013357	4.04E-05	1431	109081	0.013
	Ga	28676	0.003466	2.05E-05	384	28292	0.003
	Co	2554	0.000309	6.11E-06	347	2207	0.000

<b>747</b>	Fe	2281319	0.270327	2.02E-04	2167	2279152	0.270
	Pt	5159102	0.611333	3.42E-04	3433	5155669	0.611
	Ir	527172	0.062468	8.87E-05	1073	526099	0.062
	Au	22908	0.002715	1.80E-05	255	22653	0.002
	Rh	99380	0.011776	3.76E-05	573	98807	0.011
	Ru	8951	0.001061	1.12E-05	918	8033	0.000
	Ni	227828	0.026997	5.73E-05	1968	225860	0.026
	Cu	105277	0.012475	3.87E-05	972	104305	0.012
	Ga	5143	0.000609	8.50E-06	261	4882	0.000
	Co	2028	0.000240	5.34E-06	236	1792	0.000
<b>748</b>	Fe	369987	0.246780	4.53E-04	685	369302	0.246
	Pt	926061	0.617678	8.16E-04	1085	924976	0.618
	Ir	110296	0.073567	2.30E-04	339	109957	0.073
	Au	3170	0.002114	3.76E-05	80	3090	0.002
	Rh	17848	0.011905	8.96E-05	181	17667	0.011
	Ru	3927	0.002619	4.19E-05	290	3637	0.002
	Ni	38478	0.025665	1.33E-04	622	37856	0.025
	Cu	17051	0.011373	8.76E-05	307	16744	0.011
	Ga	11865	0.007914	7.29E-05	82	11783	0.007
	Co	578	0.000386	1.60E-05	75	503	0.000

\* - *ion count* are the raw counts, *ionic fraction* is the raw count divided by the total counts, *ionic fraction (sigma)* is the estimated error, *background count* is the estimated background, *background corrected* values have had background count subtracted from the raw ion count