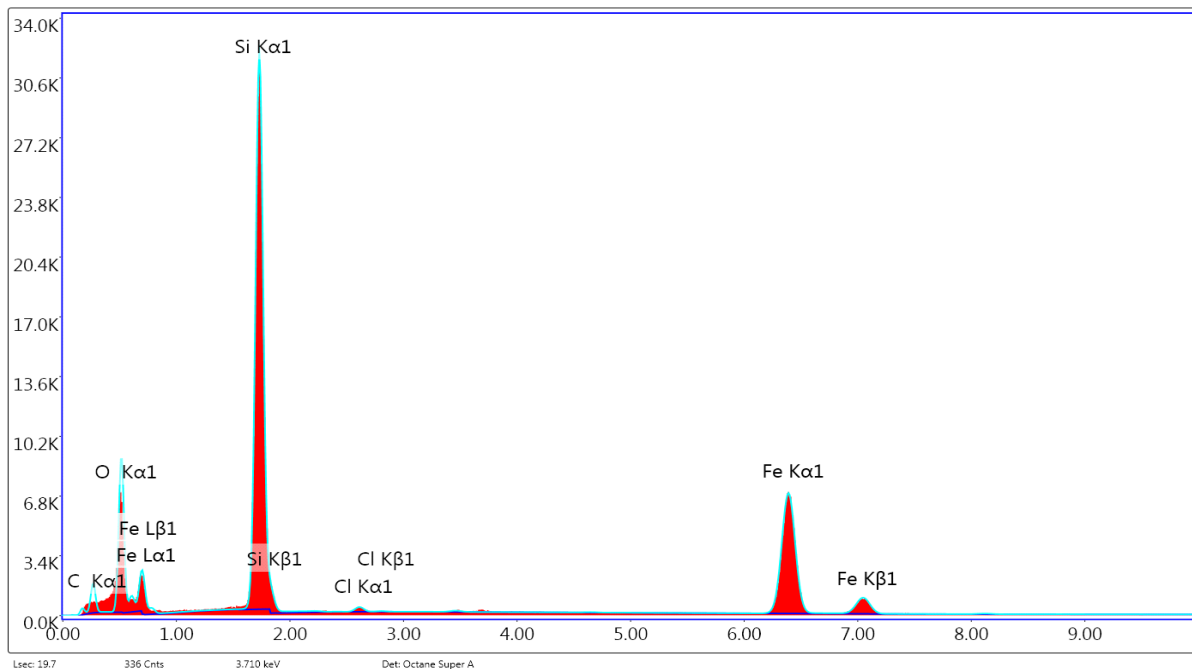


EDAX TEAM EDS

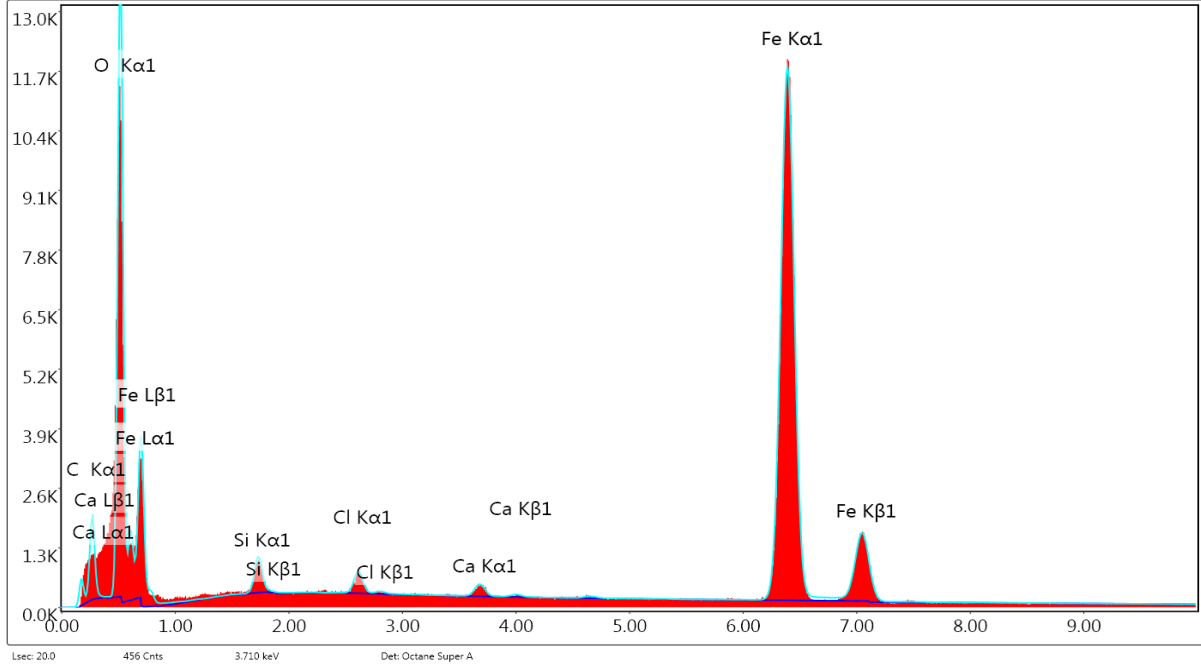
bare Fe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	18.04	31.33	10.76	406.00	0.0292	1.1042	0.0000	0.1466	1.0000
O K	28.39	37.02	9.05	2632.31	0.0676	1.0626	0.0000	0.2242	1.0000
Fe L	21.88	8.17	7.92	740.86	0.0688	0.8468	0.0000	0.3715	1.0000
Si K	31.37	23.29	4.41	13402.77	0.2031	0.9759	0.0000	0.6618	1.0028
Cl K	0.32	0.19	12.55	104.59	0.0021	0.9123	0.0000	0.7144	1.0132

EDAX TEAM EDS

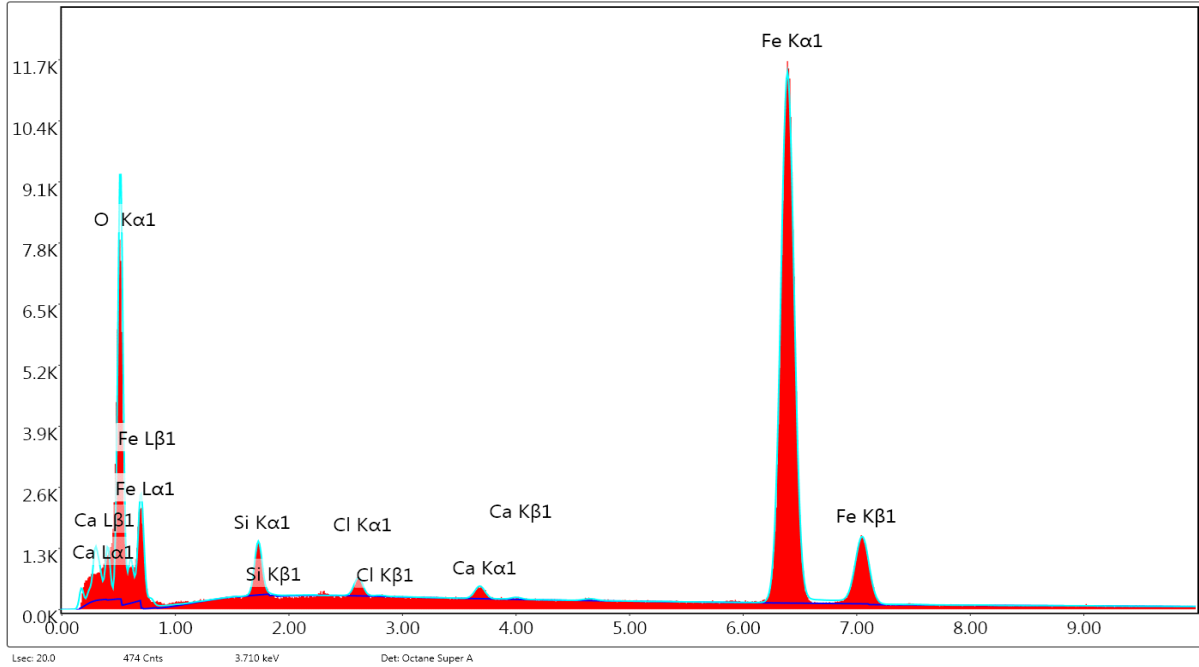
bare Fe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	12.69	24.77	9.68	405.08	0.0380	1.1413	0.0000	0.2624	1.0000
O K	36.18	53.03	7.73	4068.95	0.1363	1.0997	0.0000	0.3426	1.0000
Fe L	48.74	20.46	7.95	1246.99	0.1511	0.8769	0.0000	0.3535	1.0000
Si K	1.13	0.95	9.43	285.47	0.0056	1.0127	0.0000	0.4890	1.0058
Cl K	0.73	0.48	10.27	220.39	0.0058	0.9477	0.0000	0.8084	1.0261
Ca K	0.53	0.31	11.22	146.59	0.0053	0.9641	0.0000	0.9519	1.0901

EDAX TEAM EDS

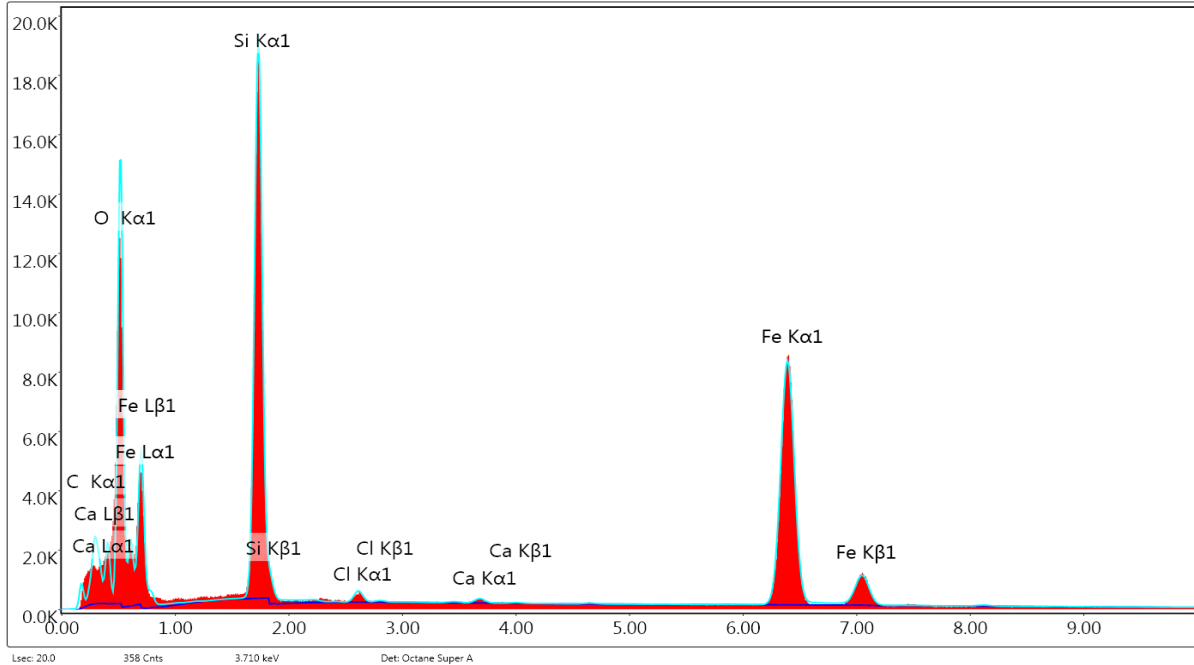
bare Fe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
O K	36.32	64.88	6.86	2758.57	0.1836	1.1347	0.0000	0.4455	1.0000
Fe L	57.50	29.43	8.20	822.85	0.1980	0.9051	0.0000	0.3805	1.0000
Si K	3.82	3.89	8.28	467.01	0.0183	1.0464	0.0000	0.4562	1.0057
Cl K	1.27	1.03	9.76	188.49	0.0098	0.9797	0.0000	0.7650	1.0251
Ca K	1.09	0.78	13.25	152.46	0.0109	0.9971	0.0000	0.9265	1.0857

EDAX TEAM EDS

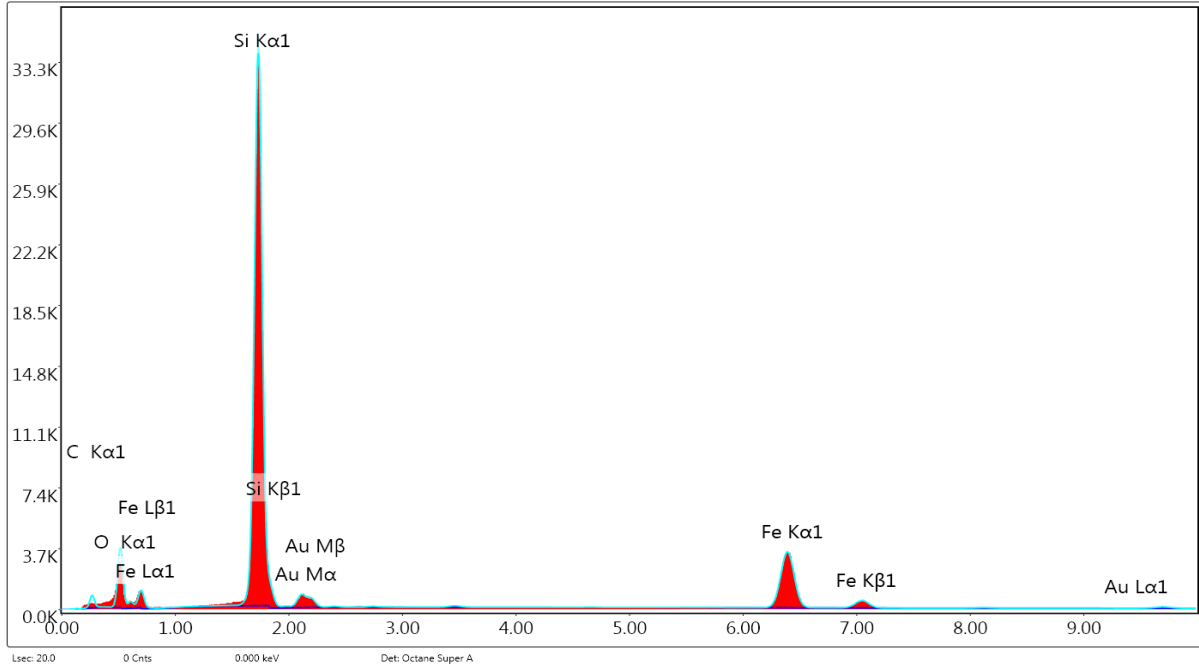
bare Fe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	15.61	29.13	9.96	616.53	0.0333	1.1261	0.0000	0.1894	1.0000
O K	30.47	42.69	8.40	4664.89	0.0900	1.0845	0.0000	0.2723	1.0000
Fe L	37.19	14.93	7.65	1719.97	0.1200	0.8646	0.0000	0.3731	1.0000
Si K	16.23	12.95	5.53	7983.76	0.0908	0.9977	0.0000	0.5585	1.0043
Cl K	0.32	0.20	11.84	152.90	0.0023	0.9333	0.0000	0.7558	1.0200
Ca K	0.18	0.10	17.42	82.51	0.0017	0.9491	0.0000	0.9282	1.0701

EDAX TEAM EDS

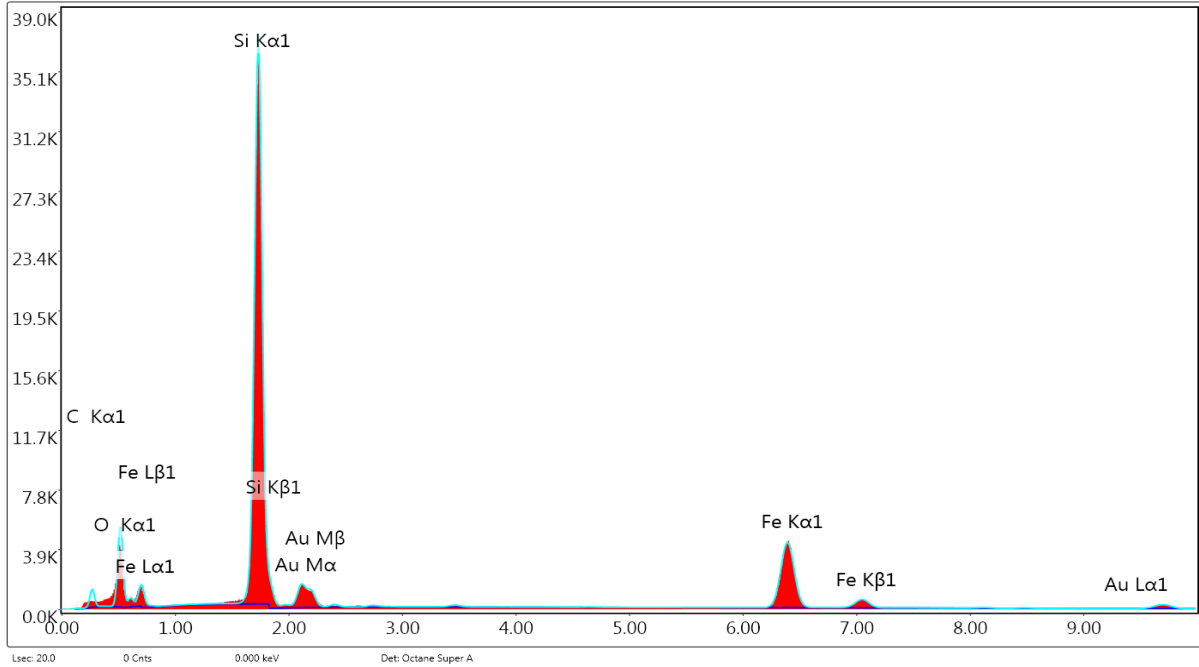
cysAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	16.31	29.58	12.10	183.62	0.0212	1.1104	0.0000	0.1172	1.0000
O K	21.07	28.70	9.60	1069.11	0.0441	1.0688	0.0000	0.1960	1.0000
Fe L	12.89	5.03	7.89	304.90	0.0455	0.8519	0.0000	0.4144	1.0000
Si K	46.90	36.38	3.54	14123.71	0.3440	0.9821	0.0000	0.7460	1.0012
Au L	2.83	0.31	17.79	66.03	0.0178	0.5973	0.0000	1.0532	0.9999

EDAX TEAM EDS

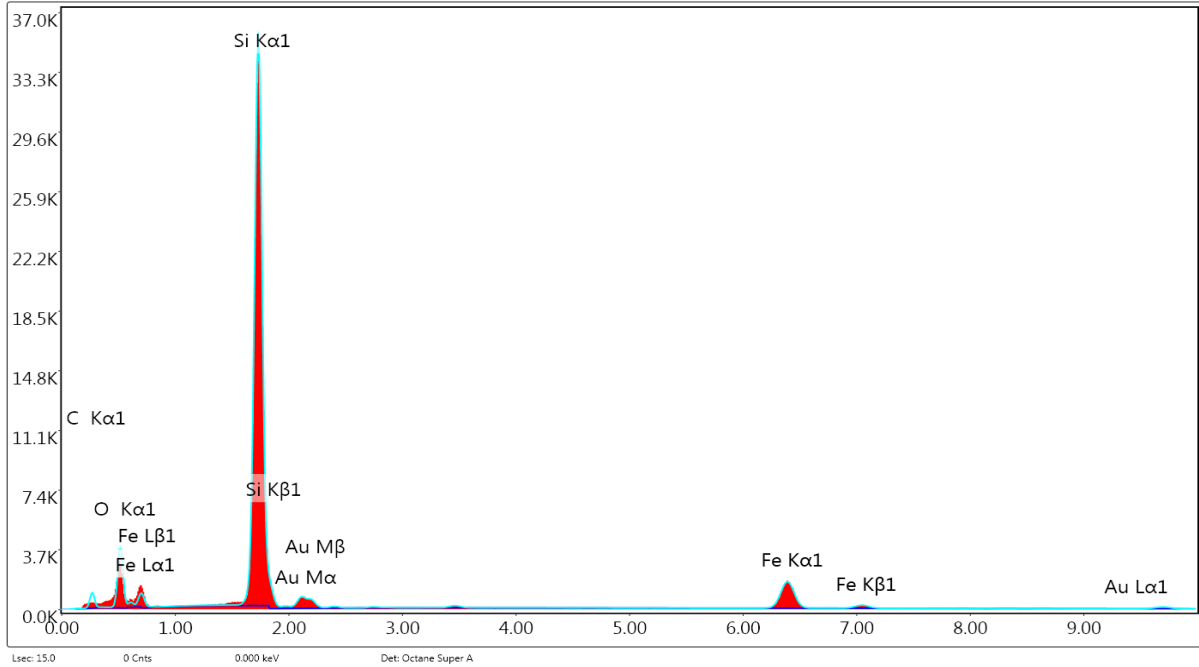
cysAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	17.55	32.14	11.51	300.17	0.0260	1.1213	0.0000	0.1322	1.0000
O K	22.63	31.12	9.46	1562.16	0.0483	1.0800	0.0000	0.1978	1.0000
Fe L	13.05	5.14	7.83	397.14	0.0444	0.8610	0.0000	0.3955	1.0000
Si K	39.27	30.76	3.83	15343.96	0.2801	0.9938	0.0000	0.7169	1.0013
Au L	7.51	0.84	12.11	236.84	0.0478	0.6067	0.0000	1.0512	0.9989

EDAX TEAM EDS

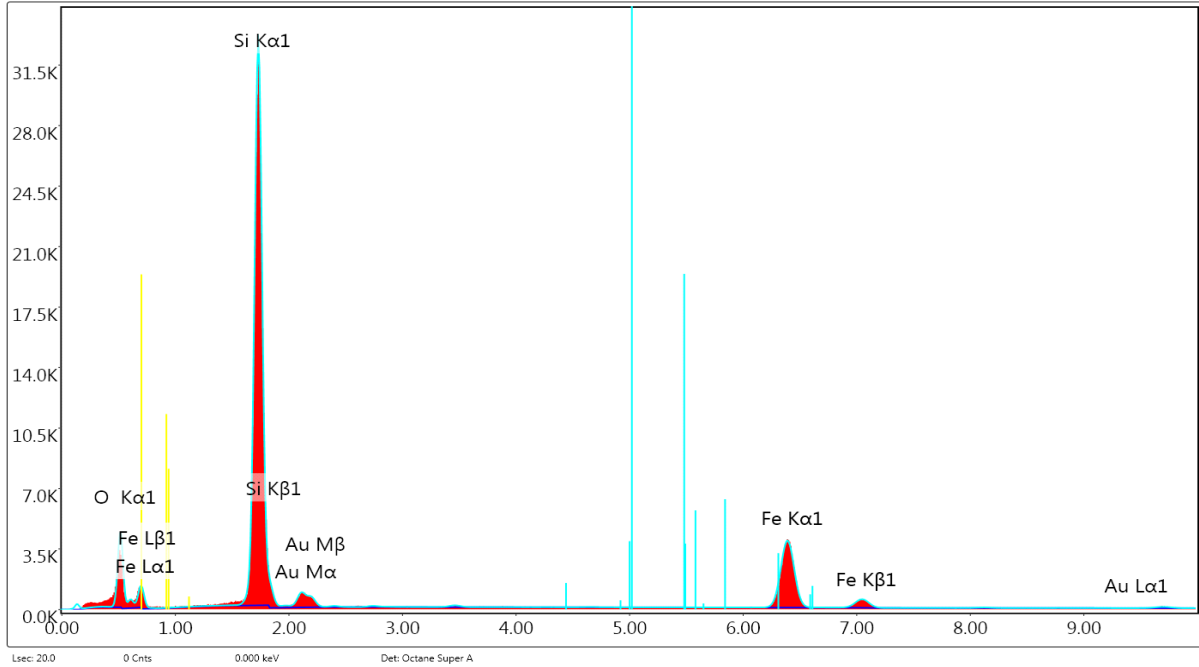
cysAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	17.70	32.48	11.75	322.82	0.0243	1.1161	0.0000	0.1230	1.0000
O K	19.48	26.84	9.59	1515.22	0.0408	1.0746	0.0000	0.1947	1.0000
Fe L	15.72	6.20	7.83	583.93	0.0568	0.8566	0.0000	0.4219	1.0000
Si K	43.40	34.06	3.78	19531.15	0.3099	0.9880	0.0000	0.7217	1.0013
Au L	3.71	0.41	17.46	133.30	0.0234	0.6018	0.0000	1.0509	0.9980

EDAX TEAM EDS

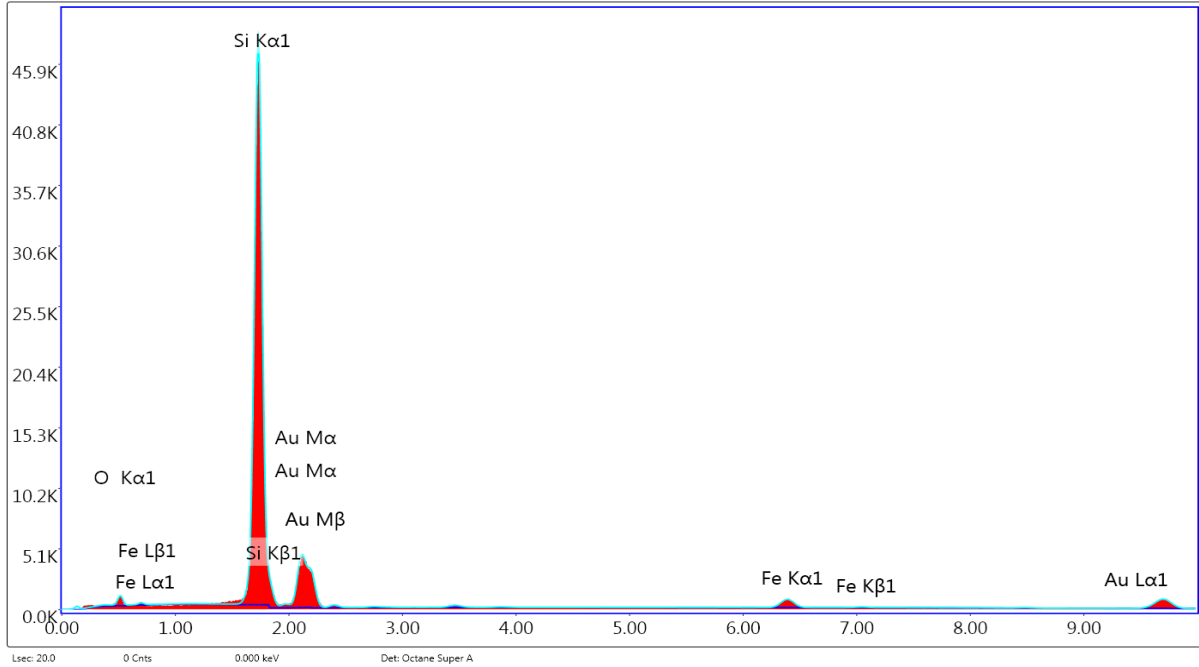
cysAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
O K	23.04	38.25	9.03	1244.37	0.0627	1.1007	0.0000	0.2471	1.0000
Fe L	17.75	8.44	7.47	377.09	0.0687	0.8775	0.0000	0.4408	1.0000
Si K	55.87	52.85	3.93	13499.62	0.4010	1.0128	0.0000	0.7078	1.0011
Au L	3.34	0.45	19.37	65.71	0.0216	0.6180	0.0000	1.0474	0.9970

EDAX TEAM EDS

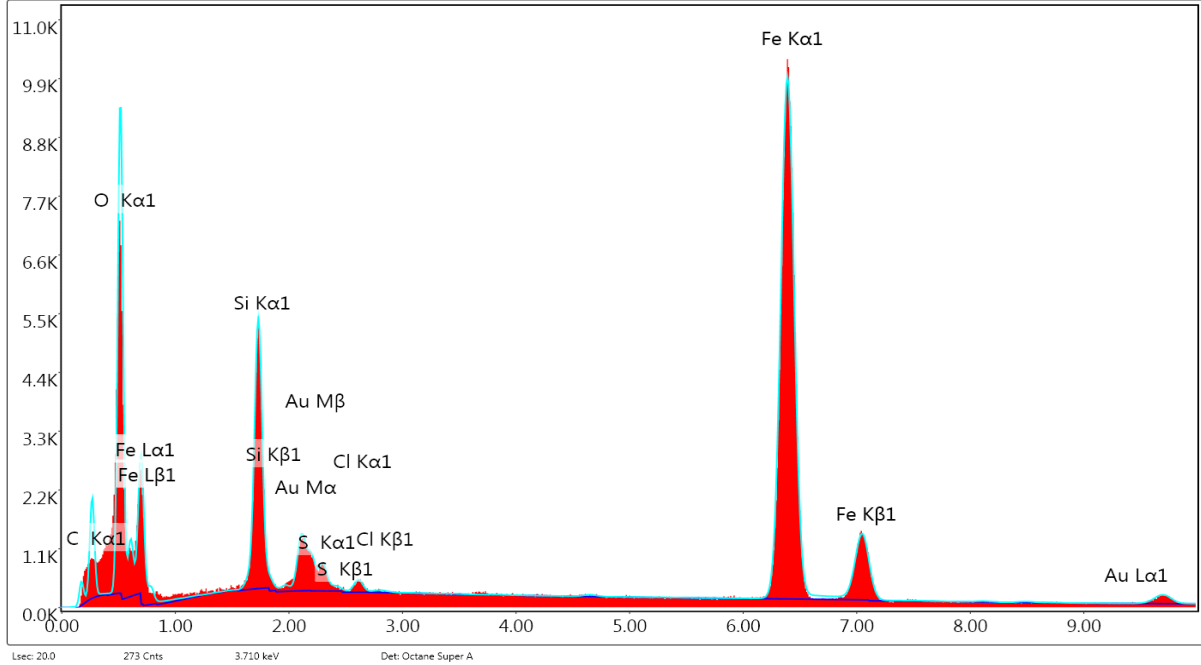
cysAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
O K	4.88	11.05	12.32	216.79	0.0103	1.1929	0.0000	0.1775	1.0000
Fe L	0.95	0.62	19.23	27.71	0.0048	0.9521	0.0000	0.5255	1.0000
Si K	64.17	82.81	3.15	19703.72	0.5538	1.1038	0.0000	0.7815	1.0004
Au M	30.00	5.52	3.81	1659.02	0.1765	0.7466	0.0000	0.7904	0.9971

EDAX TEAM EDS

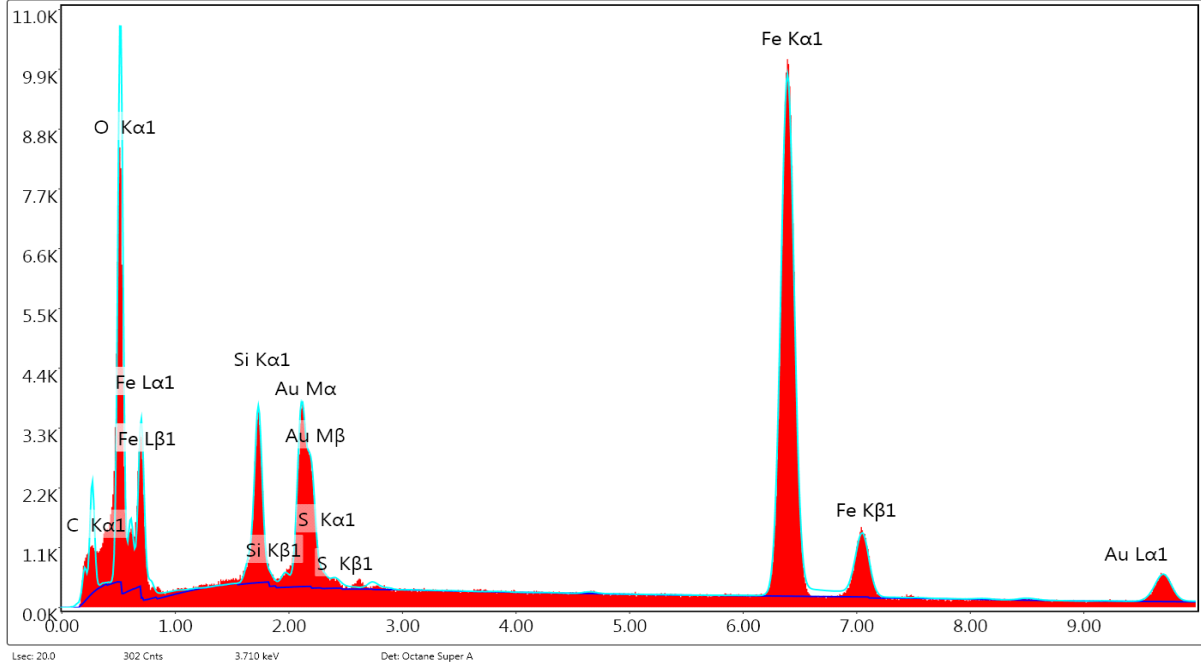
gluAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	17.35	32.53	9.93	467.09	0.0450	1.1374	0.0000	0.2279	1.0000
O K	32.15	45.27	8.62	2754.58	0.0948	1.0961	0.0000	0.2689	1.0000
Fe L	36.09	14.56	8.01	897.25	0.1116	0.8741	0.0000	0.3538	1.0000
Si K	7.71	6.18	6.10	2094.00	0.0425	1.0098	0.0000	0.5443	1.0026
S K	0.86	0.61	10.87	231.78	0.0058	0.9921	0.0000	0.6755	1.0072
Cl K	0.36	0.23	14.73	95.68	0.0026	0.9452	0.0000	0.7480	1.0115
Au L	5.48	0.63	16.07	155.28	0.0349	0.6187	0.0000	1.0383	0.9907

EDAX TEAM EDS

gluAuFe3O4

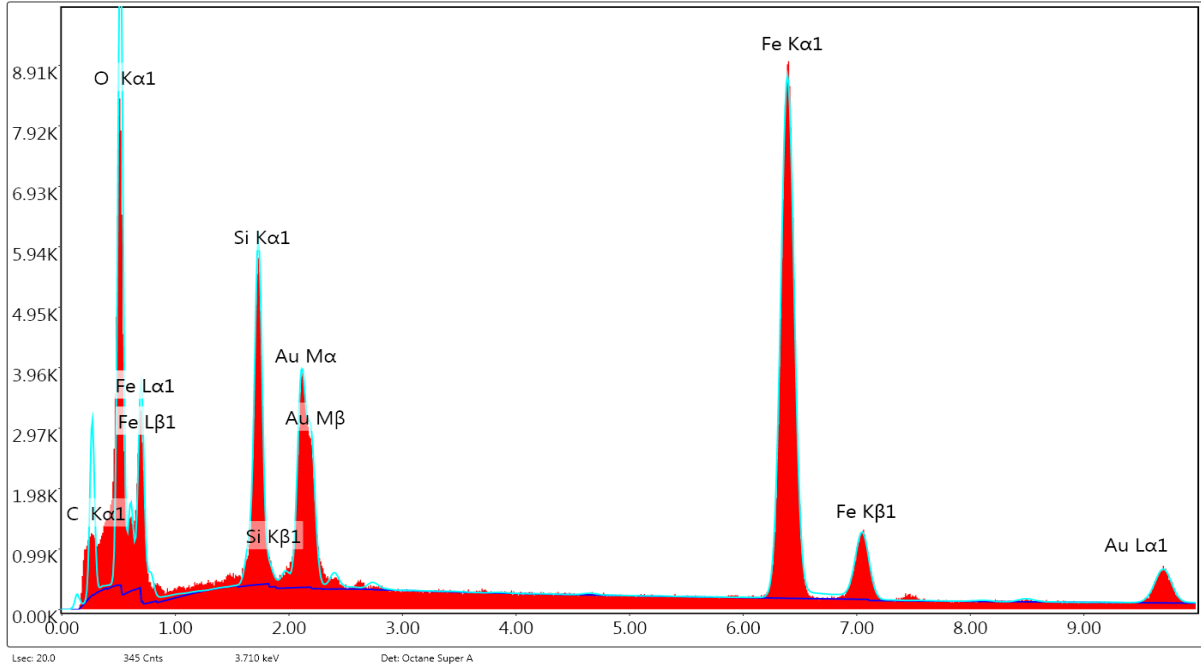


Lsec: 20.0 302 Cnts 3.710 keV Det: Octane Super-A

Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	15.88	31.64	9.53	566.99	0.0476	1.1580	0.0000	0.2587	1.0000
O K	31.99	47.85	8.60	3245.20	0.0948	1.1177	0.0000	0.2651	1.0000
Fe L	35.34	15.14	8.05	1018.69	0.1087	0.8945	0.0000	0.3440	1.0000
Si K	4.29	3.65	6.65	1385.26	0.0228	1.0331	0.0000	0.5134	1.0022
S K	0.31	0.23	20.27	99.47	0.0020	1.0159	0.0000	0.6316	1.0063
Au L	12.19	1.48	8.73	481.58	0.0809	0.6455	0.0000	1.0370	0.9918

EDAX TEAM EDS

gluAuFe3O4

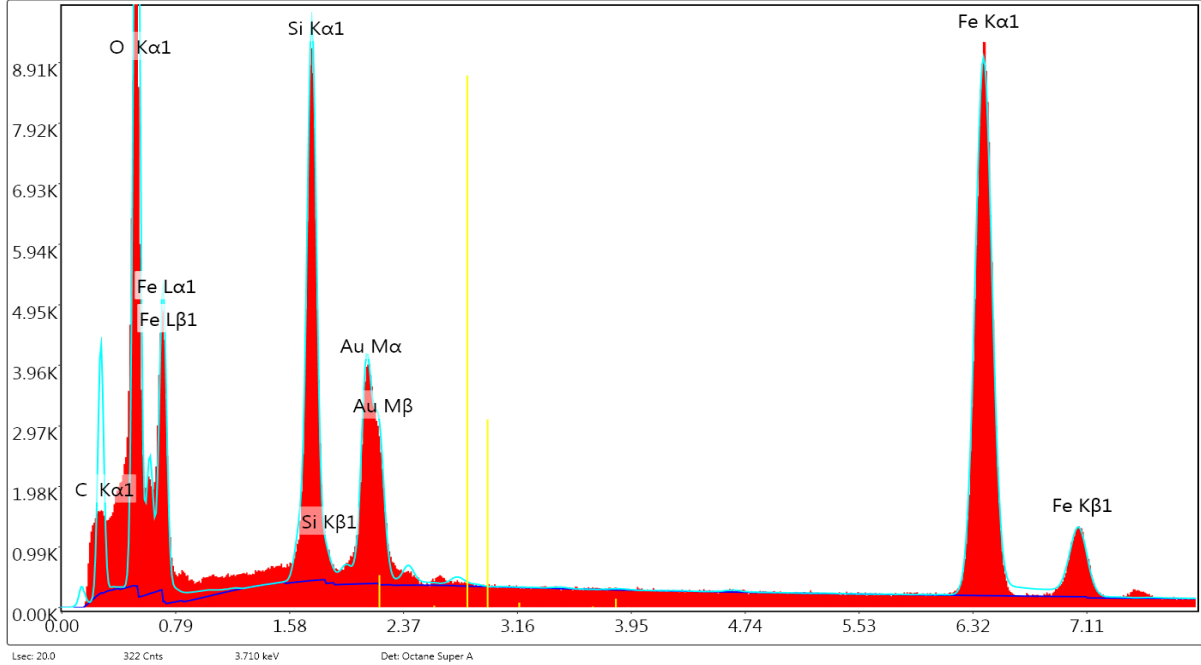


Lsec: 20.0 345 Cnts 3.710 keV Det: Octane Super-A

Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	18.81	36.10	9.42	753.95	0.0549	1.1492	0.0000	0.2540	1.0000
O K	30.42	43.83	8.79	3279.30	0.0831	1.1089	0.0000	0.2465	1.0000
Fe L	32.99	13.62	8.08	1095.00	0.1014	0.8874	0.0000	0.3466	1.0000
Si K	6.21	5.10	6.16	2364.41	0.0337	1.0246	0.0000	0.5294	1.0022
Au L	11.58	1.36	8.26	523.54	0.0764	0.6394	0.0000	1.0394	0.9922

EDAX TEAM EDS

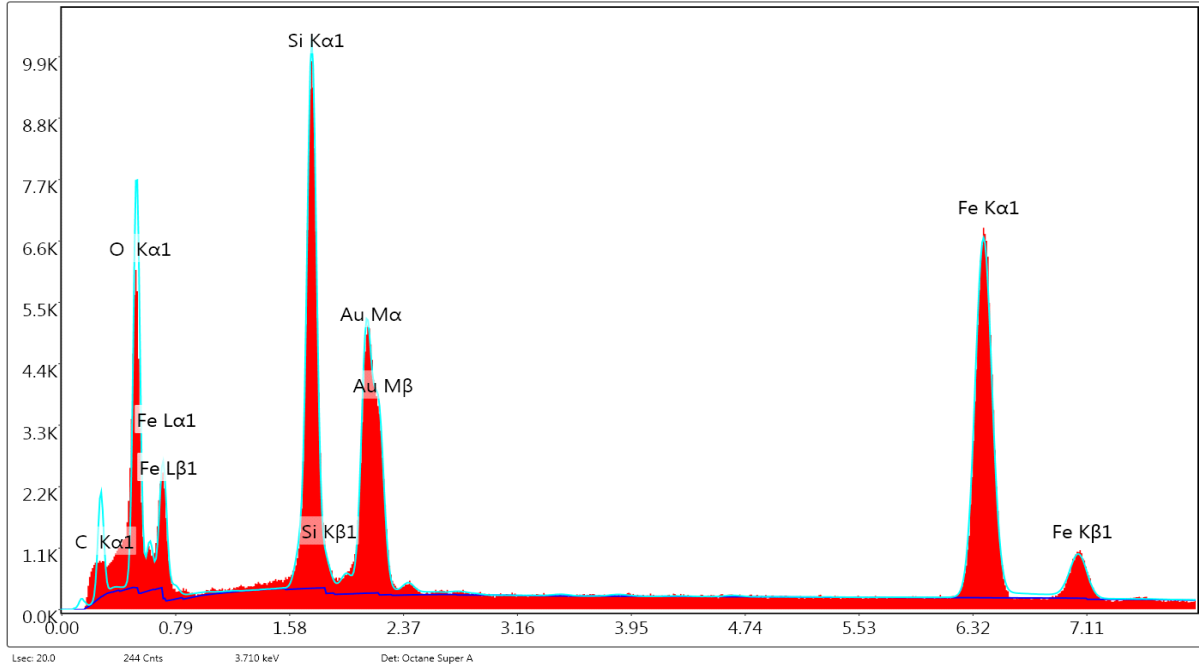
gluAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	19.31	36.60	9.18	1054.71	0.0536	1.1413	0.0000	0.2435	1.0000
O K	29.30	41.70	8.62	4555.28	0.0807	1.1010	0.0000	0.2501	1.0000
Fe L	36.49	14.88	7.77	1777.58	0.1150	0.8809	0.0000	0.3579	1.0000
Si K	7.35	5.96	6.06	3932.48	0.0392	1.0165	0.0000	0.5237	1.0024
Au L	7.55	0.87	8.52	483.07	0.0492	0.6327	0.0000	1.0390	0.9909

EDAX TEAM EDS

hisAuFe3O4

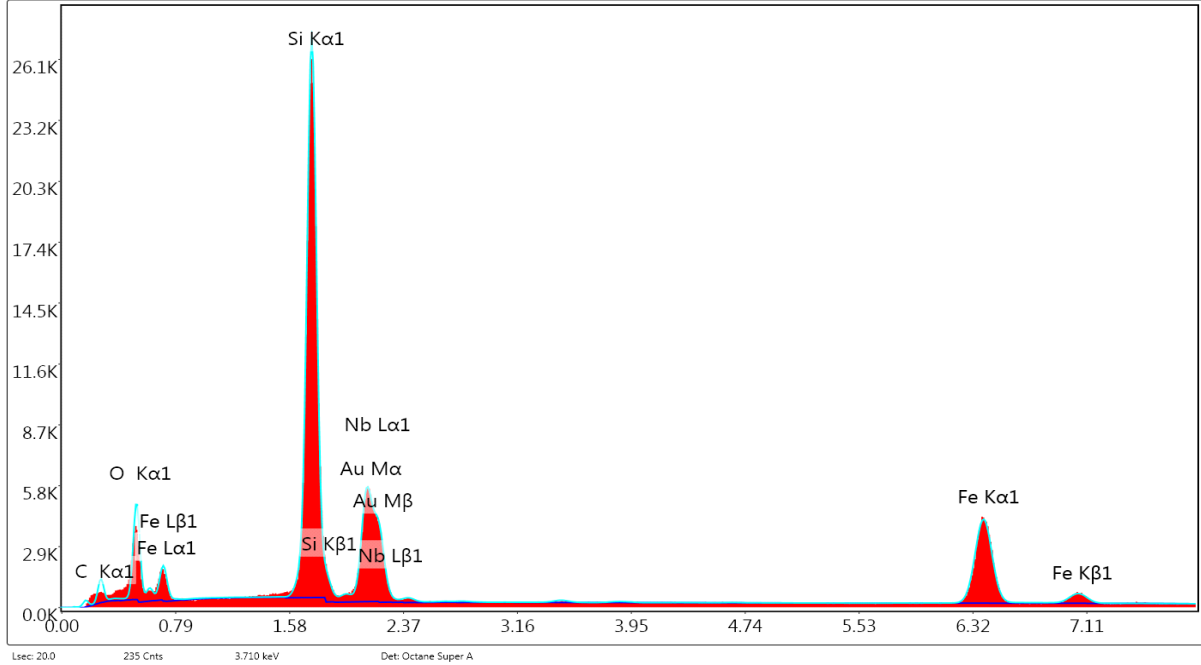


Lsec: 20.0 244 Cnts 3.710 keV Det: Octane Super-A

Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	16.57	33.90	10.07	473.59	0.0427	1.1721	0.0000	0.2200	1.0000
O K	28.06	43.08	9.14	2235.44	0.0702	1.1319	0.0000	0.2212	1.0000
Fe L	21.88	9.62	8.61	597.86	0.0687	0.9061	0.0000	0.3462	1.0000
Si K	12.30	10.76	5.52	4166.87	0.0737	1.0475	0.0000	0.5710	1.0018
Au L	21.19	2.64	6.17	799.04	0.1444	0.6575	0.0000	1.0414	0.9956

EDAX TEAM EDS

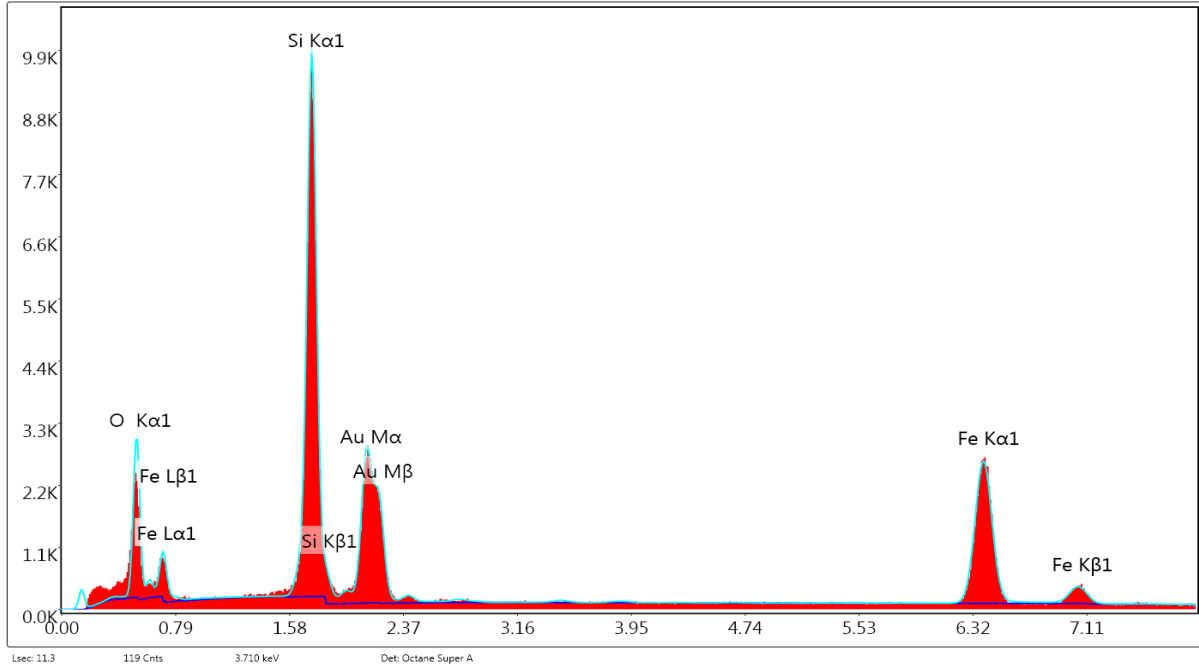
hisAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	13.48	30.25	11.54	277.77	0.0248	1.1900	0.0000	0.1546	1.0000
O K	19.37	32.64	9.62	1344.40	0.0418	1.1494	0.0000	0.1877	1.0000
Fe L	11.82	5.70	8.33	367.82	0.0418	0.9202	0.0000	0.3842	1.0000
Si K	28.69	27.53	4.58	11246.23	0.1968	1.0645	0.0000	0.6436	1.0015
Nb L	1.47	0.43	13.45	197.29	0.0088	0.8400	0.0000	0.7148	0.9997
Au L	25.18	3.45	4.89	984.01	0.1759	0.6700	0.0000	1.0443	0.9987

EDAX TEAM EDS

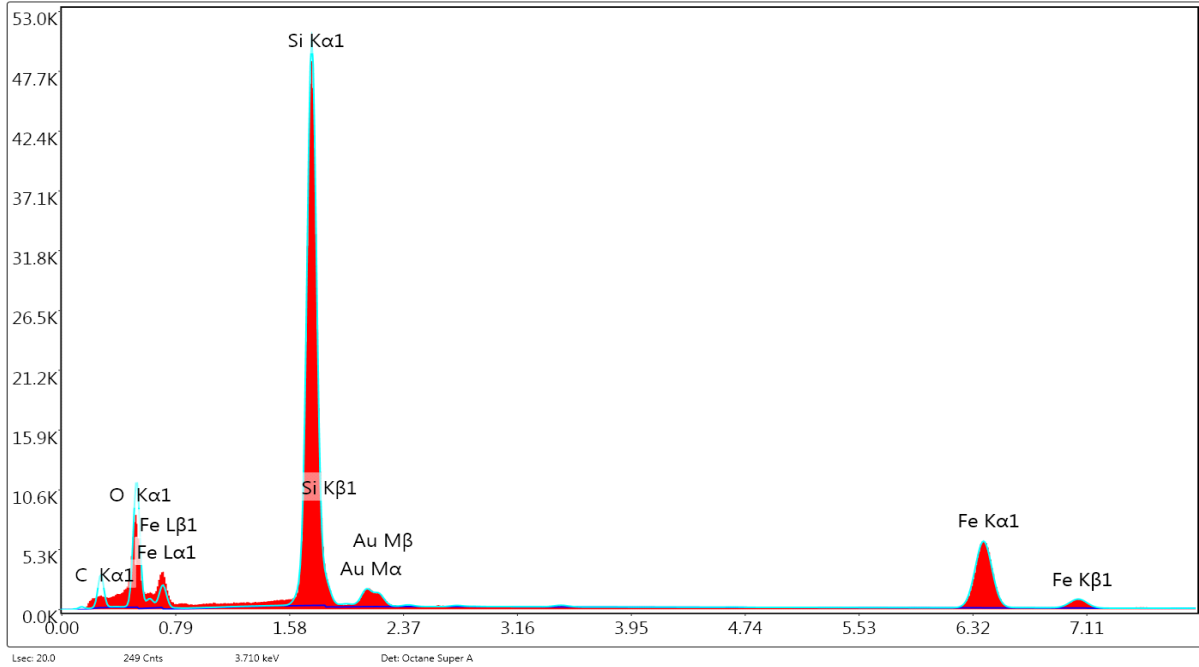
hisAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
O K	24.26	51.06	9.36	1500.24	0.0680	1.1972	0.0000	0.2343	1.0000
Fe L	15.72	9.48	9.21	343.12	0.0569	0.9587	0.0000	0.3773	1.0000
Si K	28.40	34.06	5.29	7327.86	0.1871	1.1101	0.0000	0.5926	1.0015
Au L	31.62	5.41	7.41	881.38	0.2300	0.7036	0.0000	1.0365	0.9972

EDAX TEAM EDS

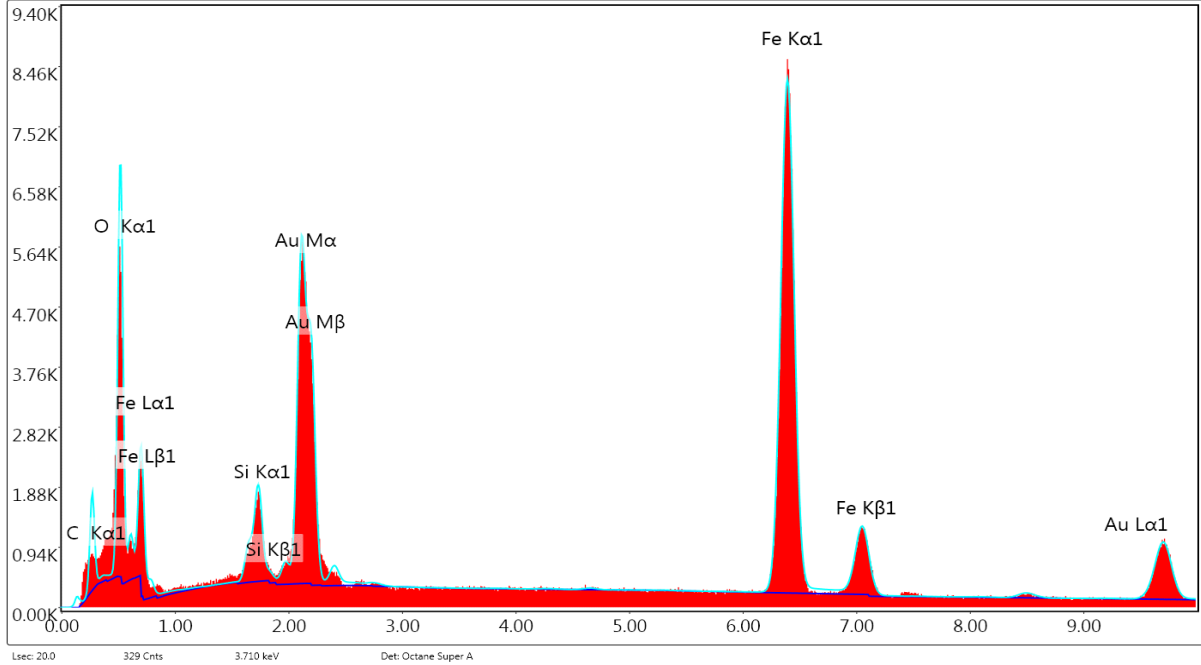
hisAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	20.76	36.26	10.23	728.90	0.0349	1.1079	0.0000	0.1520	1.0000
O K	24.96	32.73	9.12	3241.74	0.0541	1.0674	0.0000	0.2031	1.0000
Fe L	20.85	7.83	7.55	1095.29	0.0668	0.8535	0.0000	0.3755	1.0000
Si K	30.63	22.88	4.44	20860.12	0.1960	0.9826	0.0000	0.6503	1.0019
Au L	2.80	0.30	15.43	185.43	0.0178	0.6069	0.0000	1.0526	0.9956

EDAX TEAM EDS

tioAuFe3O4

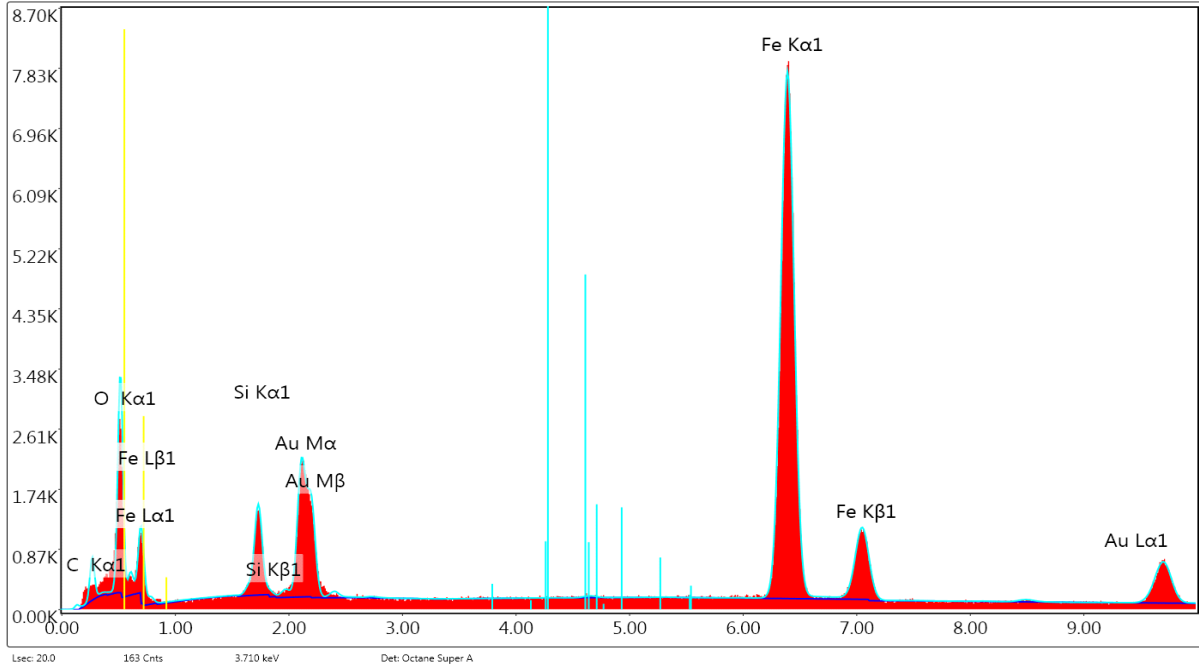


Lsec: 20.0 329 Cnts 3.710 keV Det: Octane Super-A

Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	12.57	29.75	10.04	362.13	0.0427	1.2302	0.0000	0.2761	1.0000
O K	28.85	51.25	9.04	1937.55	0.0816	1.1879	0.0000	0.2382	1.0000
Fe L	23.55	11.98	8.50	498.97	0.0760	0.9483	0.0000	0.3404	1.0000
Si K	2.26	2.28	7.01	544.39	0.0135	1.1003	0.0000	0.5435	1.0018
Au L	32.76	4.73	6.33	843.43	0.2319	0.6892	0.0000	1.0313	0.9957

EDAX TEAM EDS

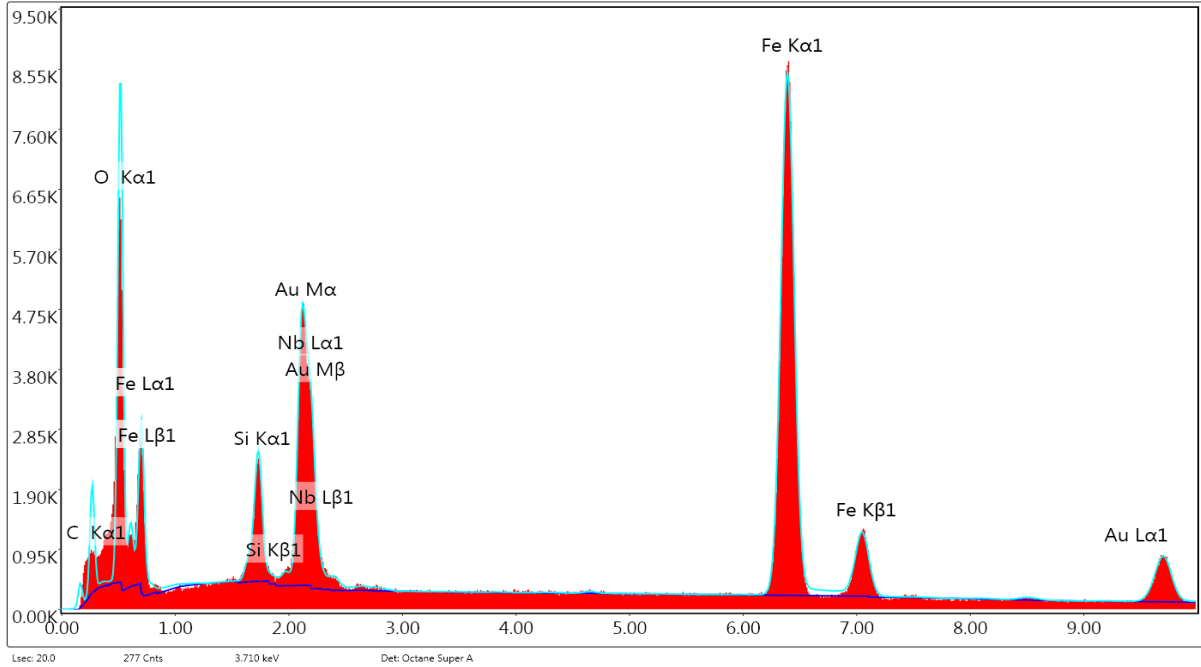
tioAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	10.22	26.45	11.70	150.13	0.0335	1.2600	0.0000	0.2599	1.0000
O K	26.84	52.17	9.38	935.63	0.0745	1.2168	0.0000	0.2282	1.0000
Fe L	19.68	10.96	9.21	227.44	0.0655	0.9715	0.0000	0.3426	1.0000
Si K	3.78	4.19	7.02	499.68	0.0235	1.1279	0.0000	0.5492	1.0017
Au L	39.48	6.23	8.14	554.19	0.2879	0.7106	0.0000	1.0297	0.9967

EDAX TEAM EDS

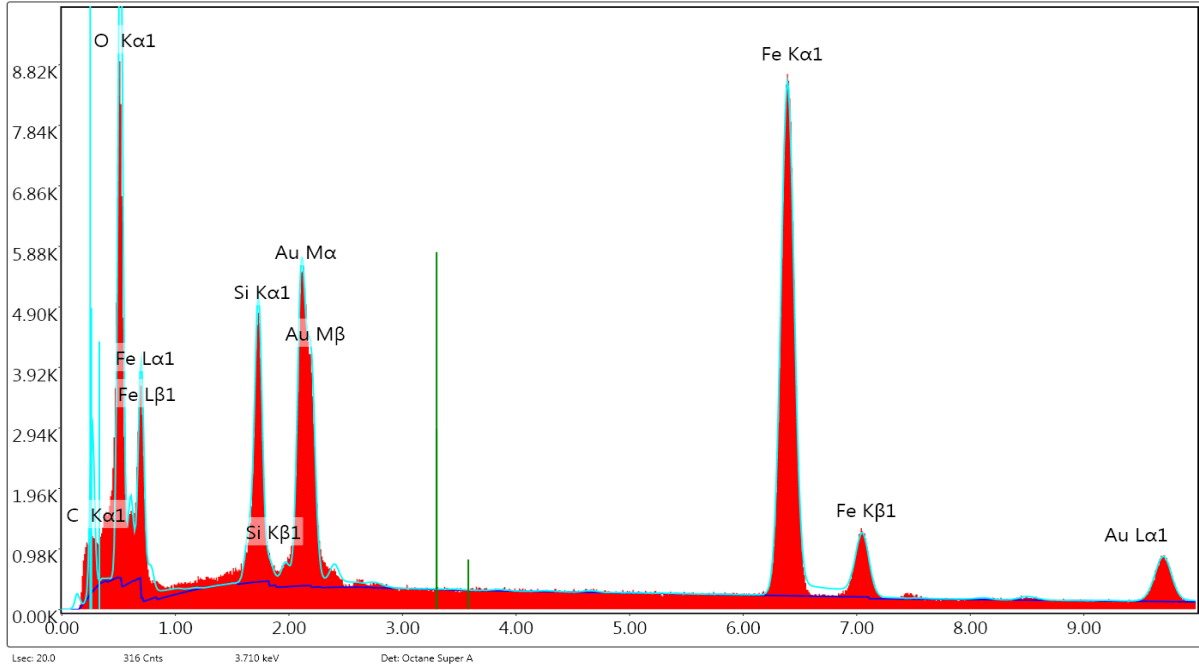
tiO₂AuFe₃O₄



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	13.55	30.01	10.11	426.76	0.0415	1.2013	0.0000	0.2551	1.0000
O K	30.07	50.02	8.97	2392.37	0.0831	1.1596	0.0000	0.2384	1.0000
Fe L	27.51	13.11	8.35	687.10	0.0863	0.9255	0.0000	0.3391	1.0000
Si K	3.06	2.90	7.00	869.46	0.0178	1.0728	0.0000	0.5420	1.0020
Nb L	3.13	0.90	6.96	447.33	0.0232	0.8439	0.0000	0.8776	1.0003
Au L	22.69	3.07	6.82	686.99	0.1557	0.6674	0.0000	1.0334	0.9952

EDAX TEAM EDS

tioAuFe3O4



Element	Wt %	Atomic %	Error %	Net Int.	K Ratio	Z	R	A	F
C K	16.50	33.59	9.44	695.85	0.0503	1.1737	0.0000	0.2596	1.0000
O K	30.47	46.57	8.77	3358.27	0.0867	1.1325	0.0000	0.2512	1.0000
Fe L	29.88	13.09	8.14	1007.21	0.0940	0.9036	0.0000	0.3481	1.0000
Si K	5.20	4.53	6.17	1959.43	0.0298	1.0463	0.0000	0.5473	1.0020
Au L	17.95	2.23	7.46	710.06	0.1196	0.6472	0.0000	1.0357	0.9935