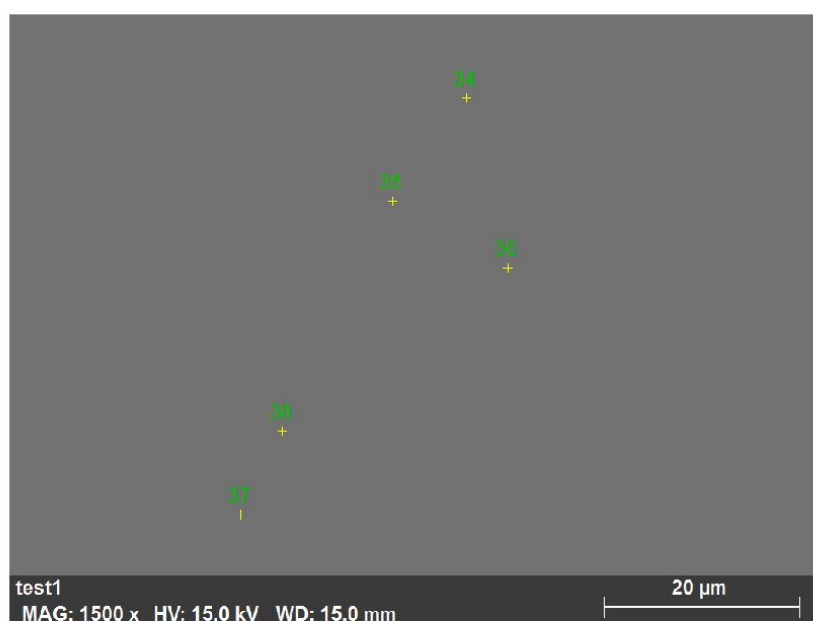
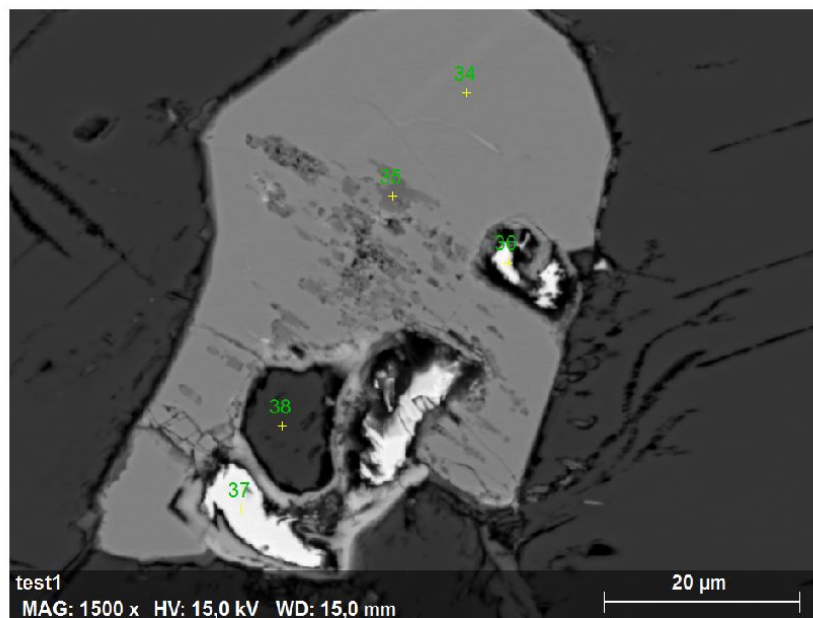
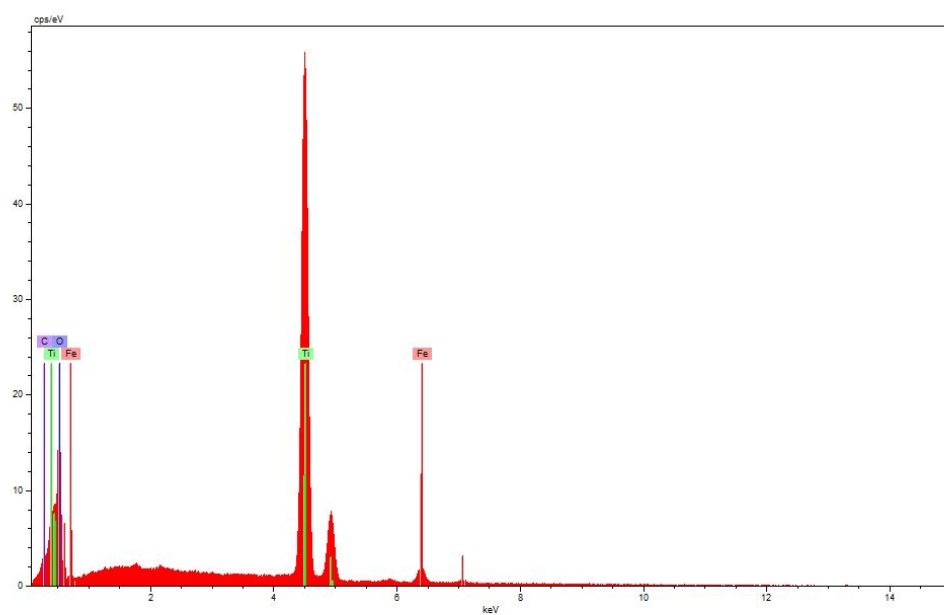
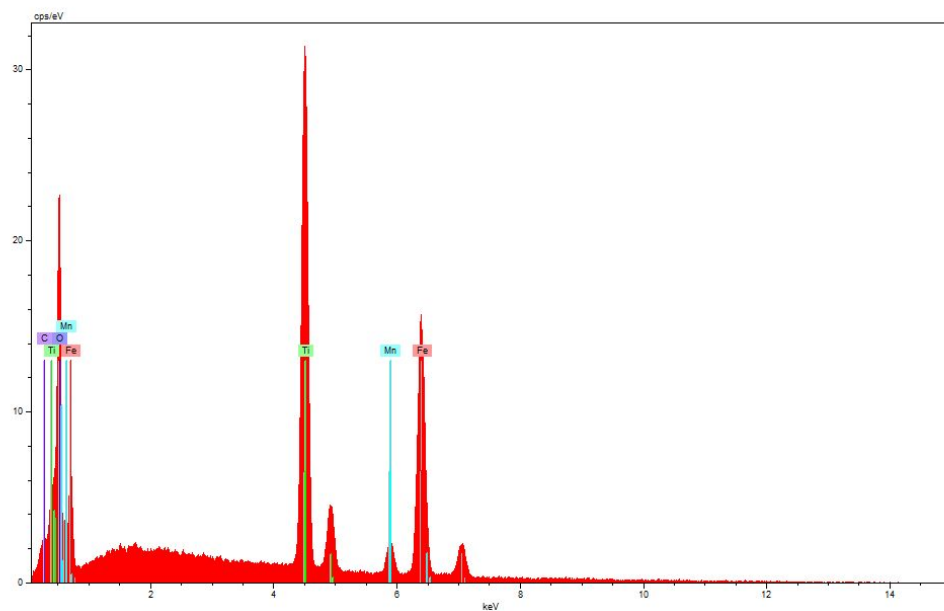
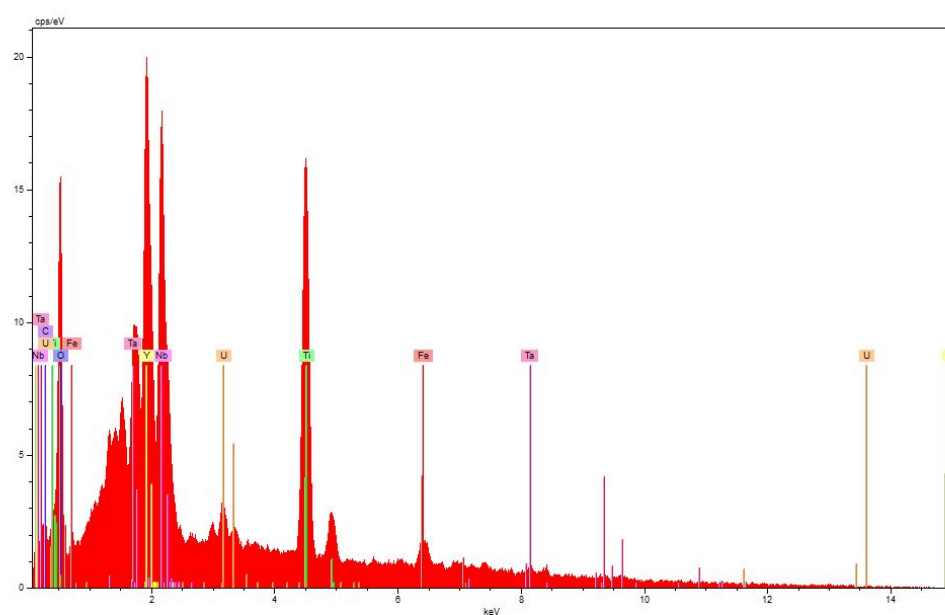
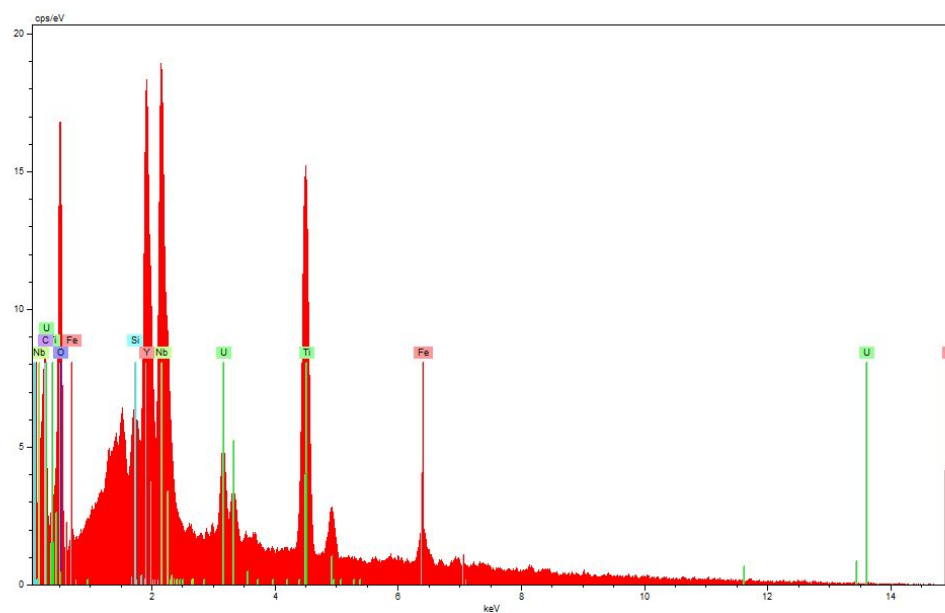


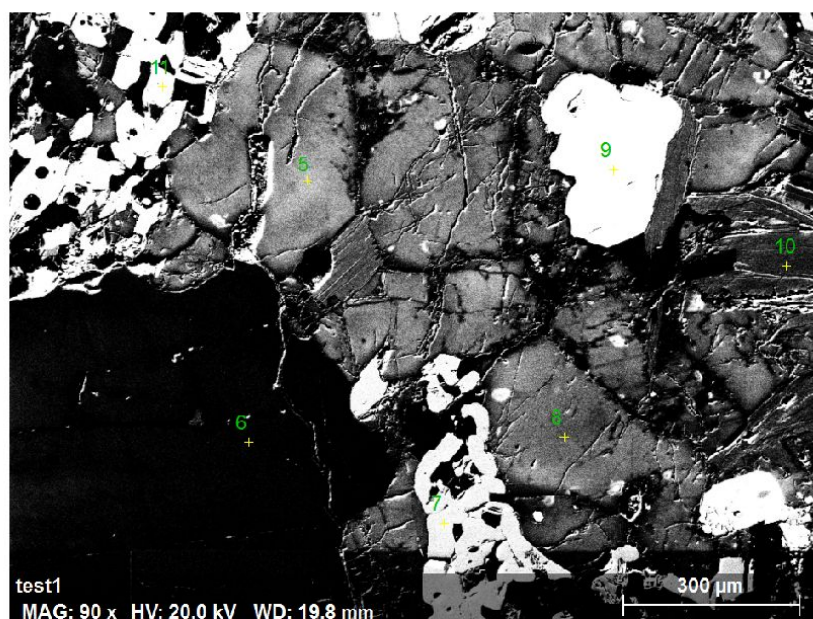
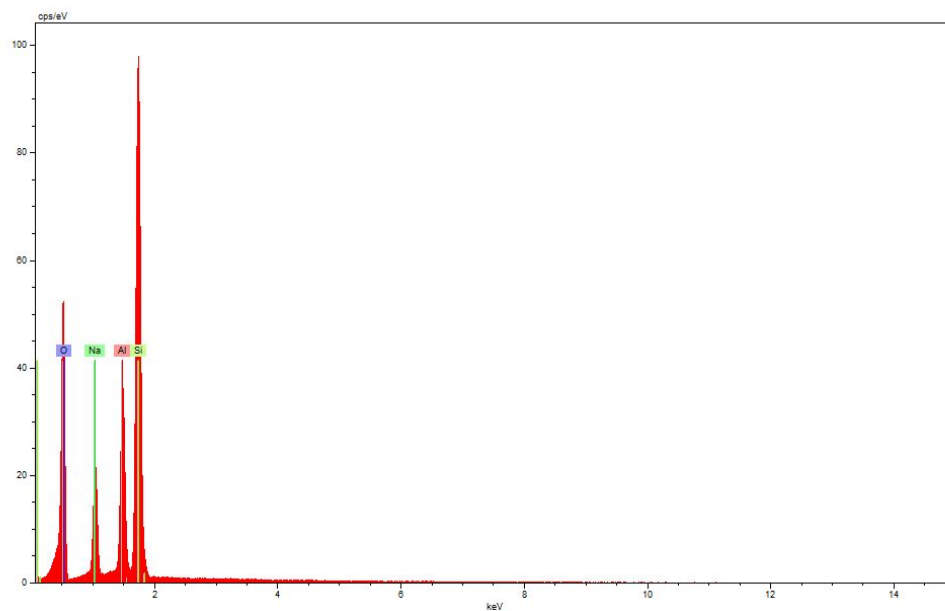
9.3 Appendix B – Scanning Electron Microscope

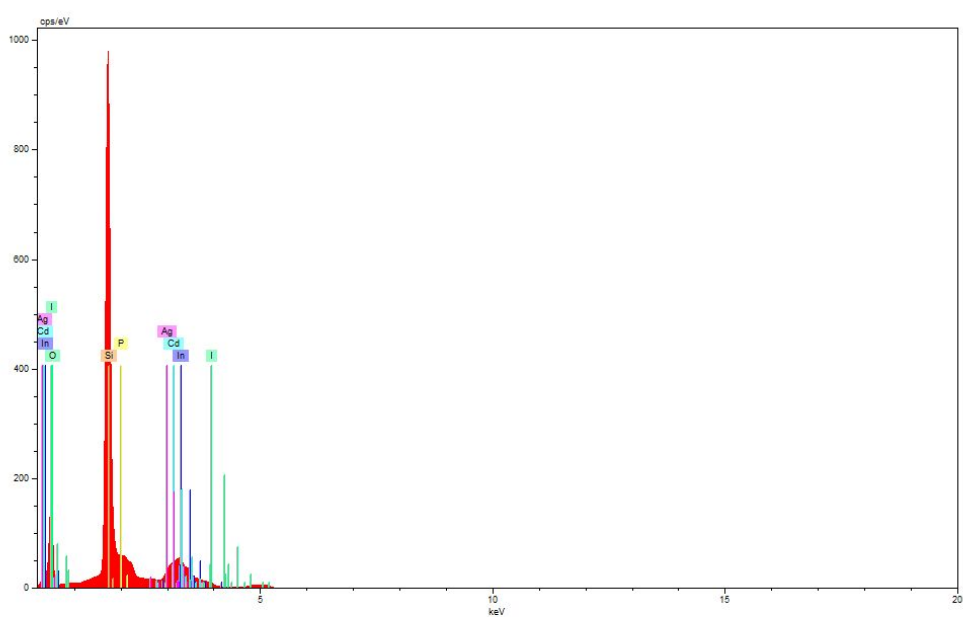
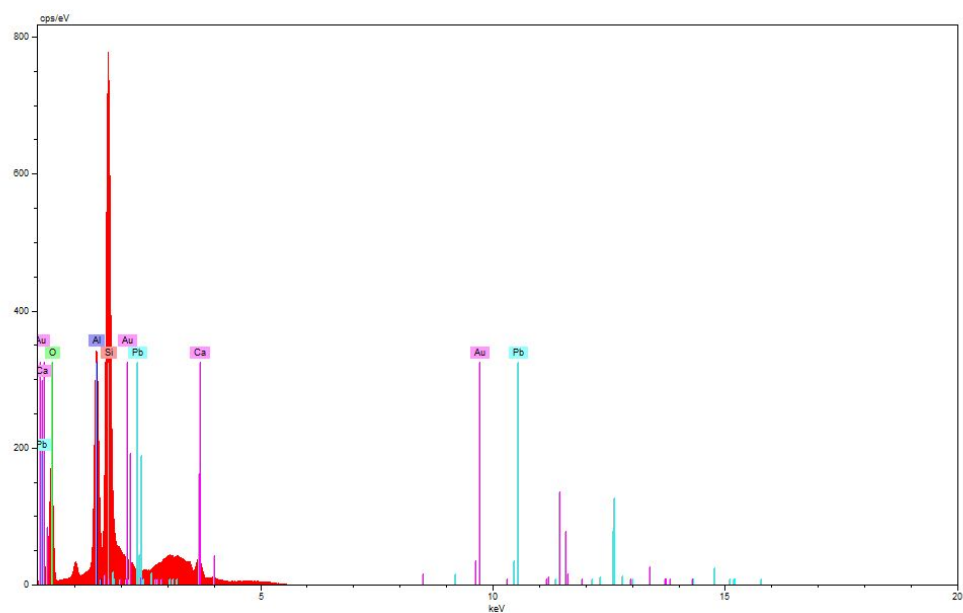
Application Note

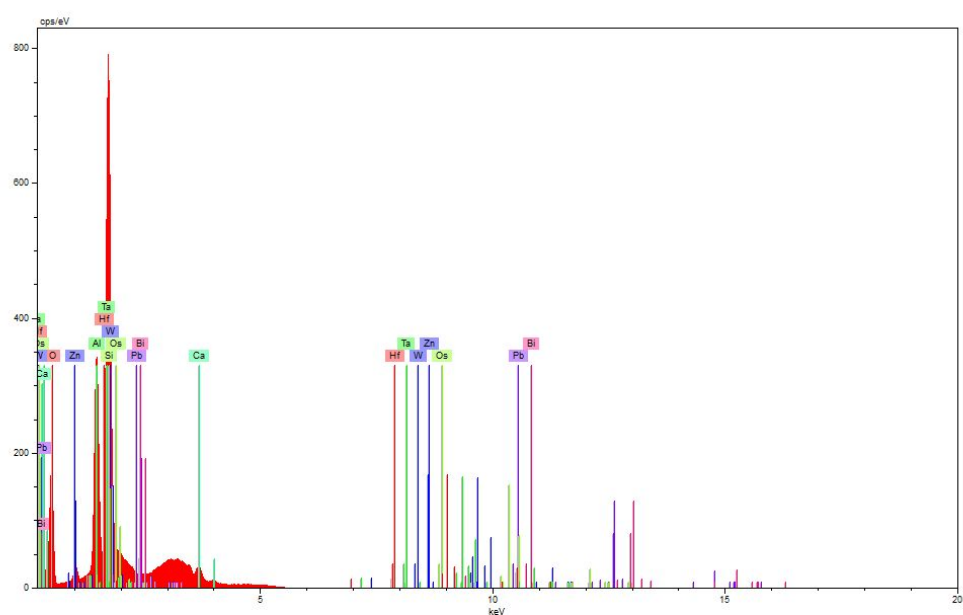
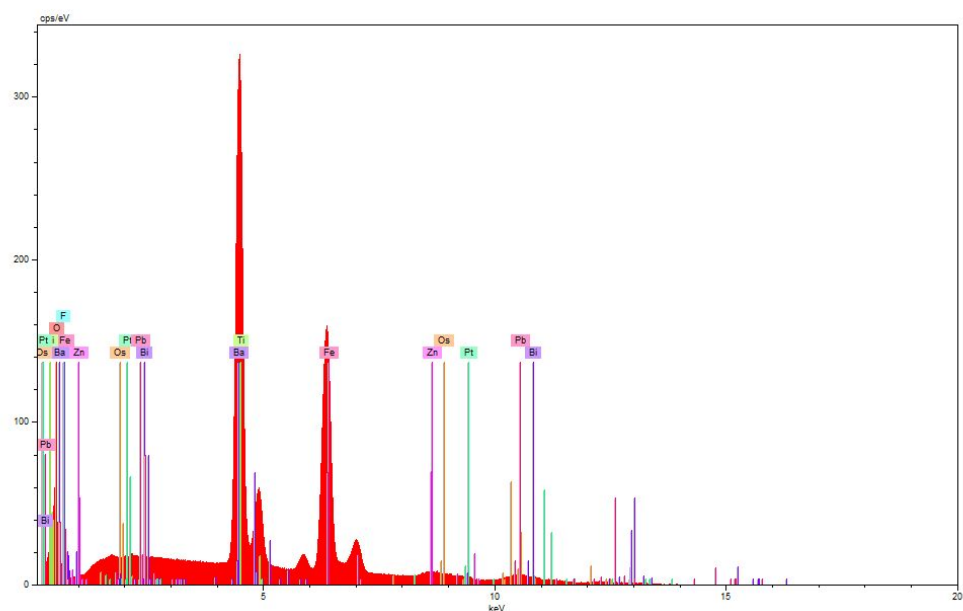


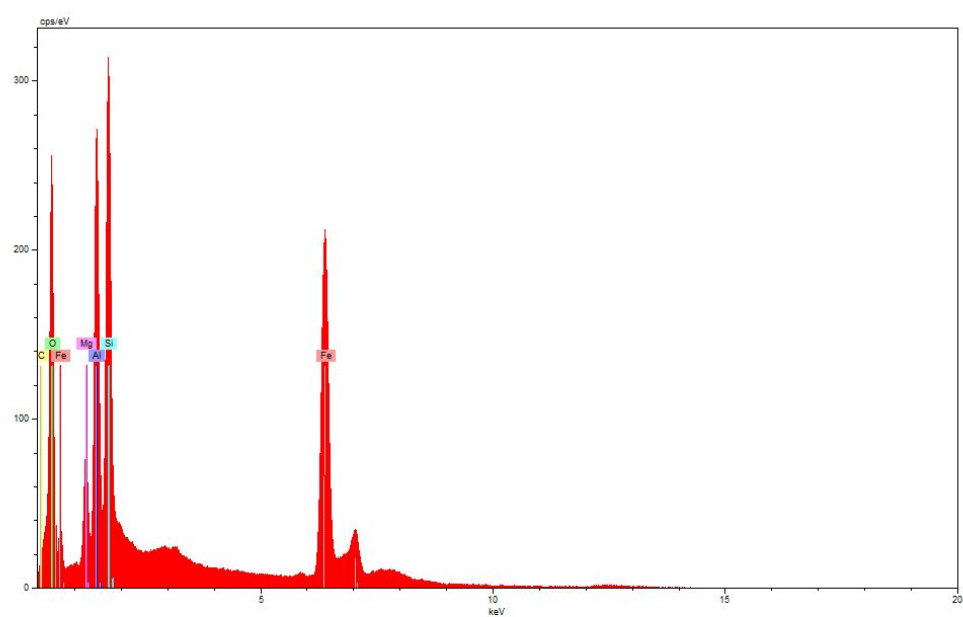
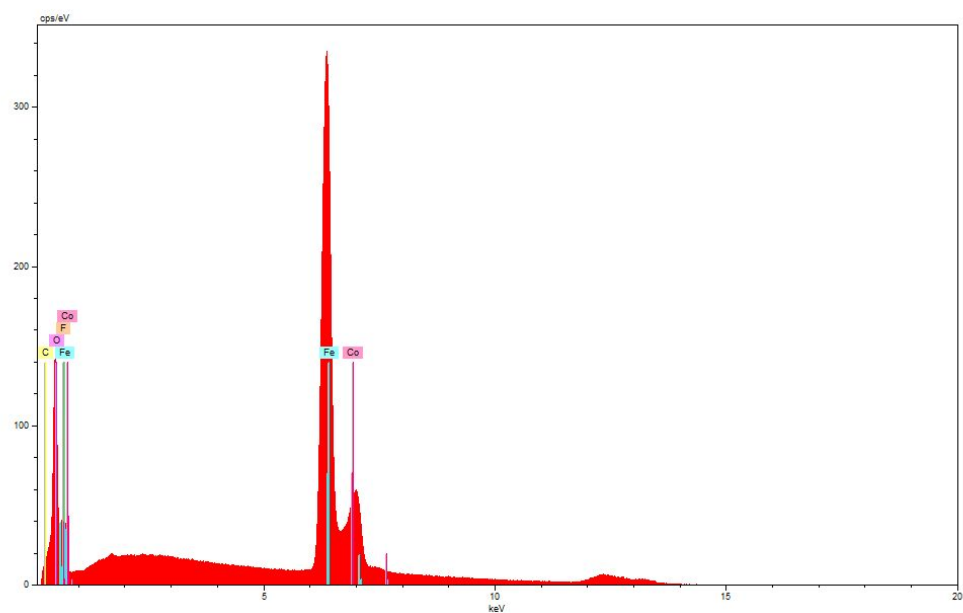


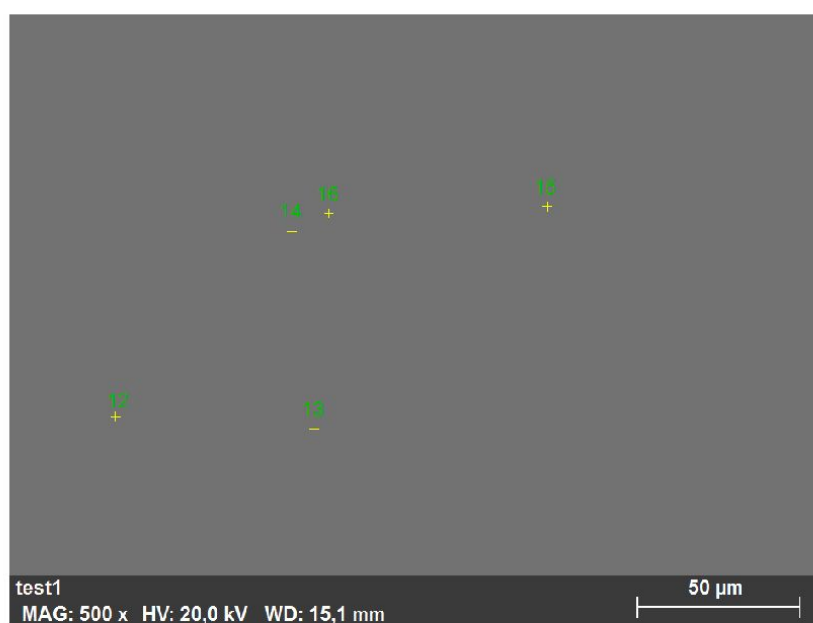
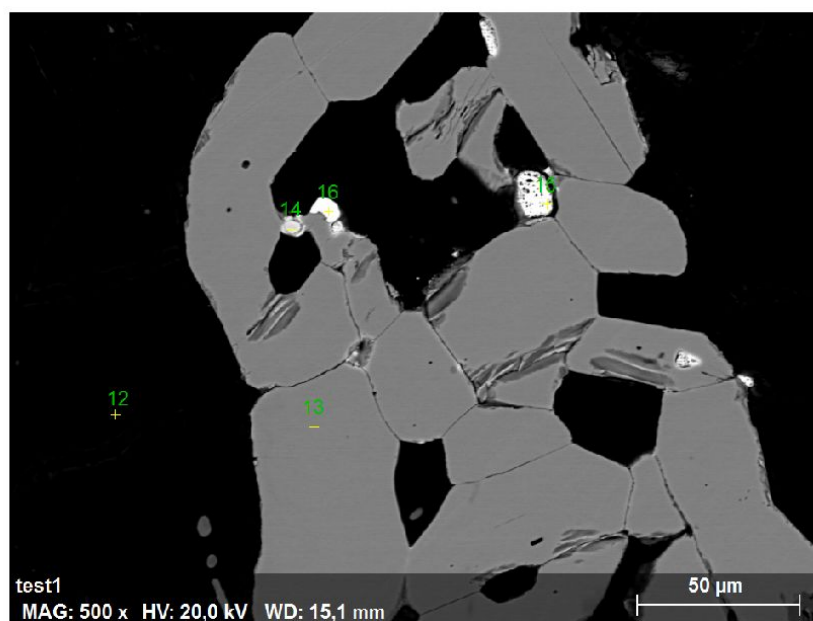


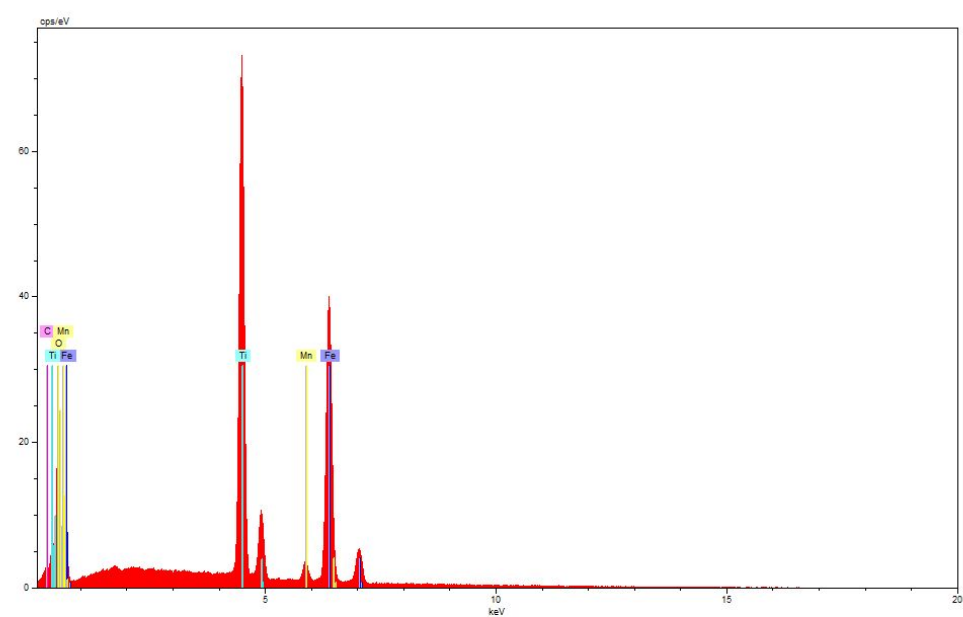
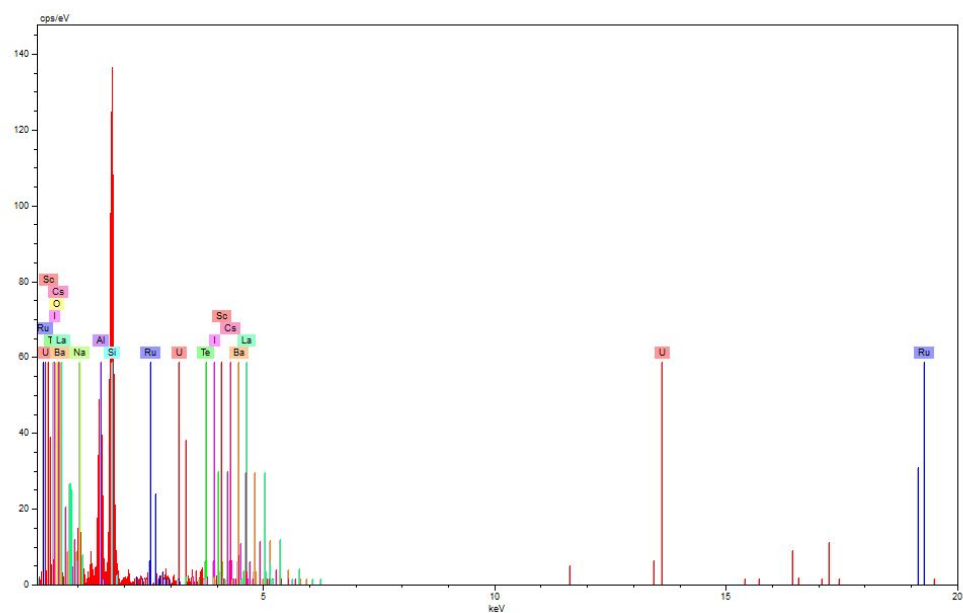


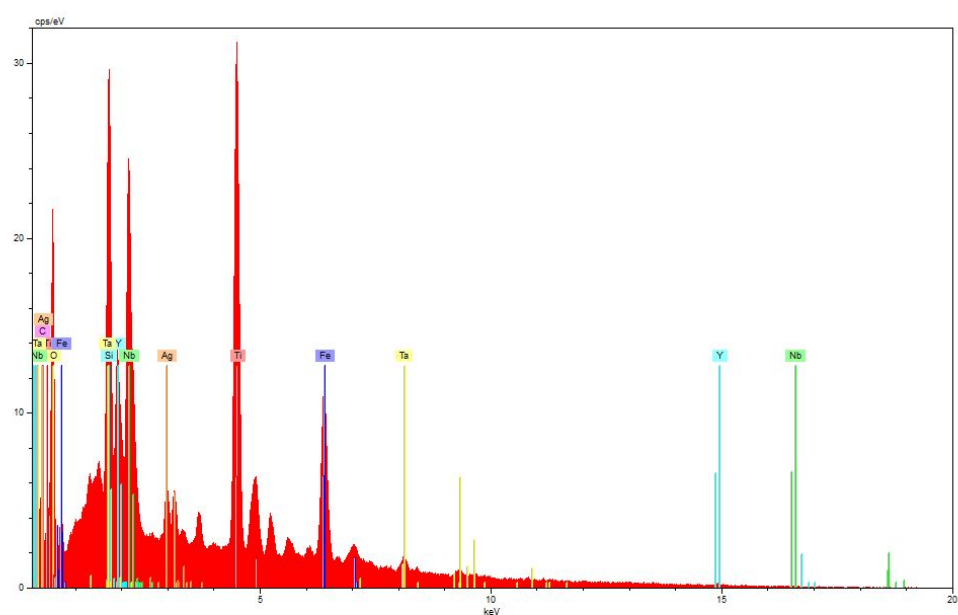
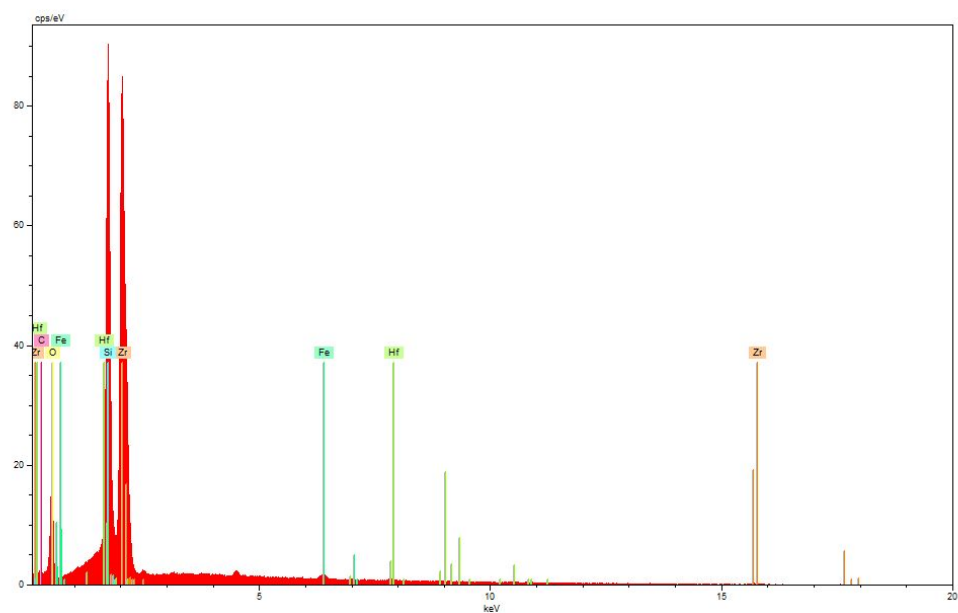


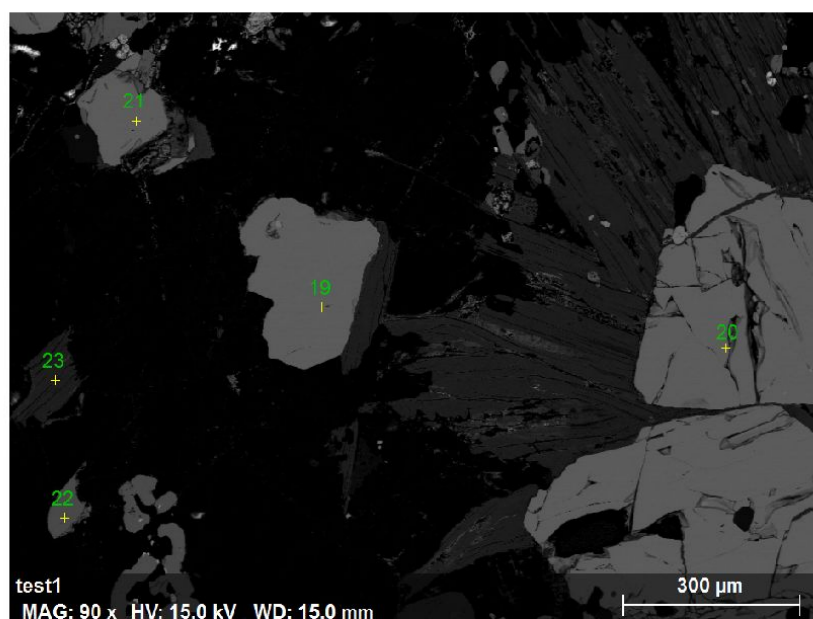
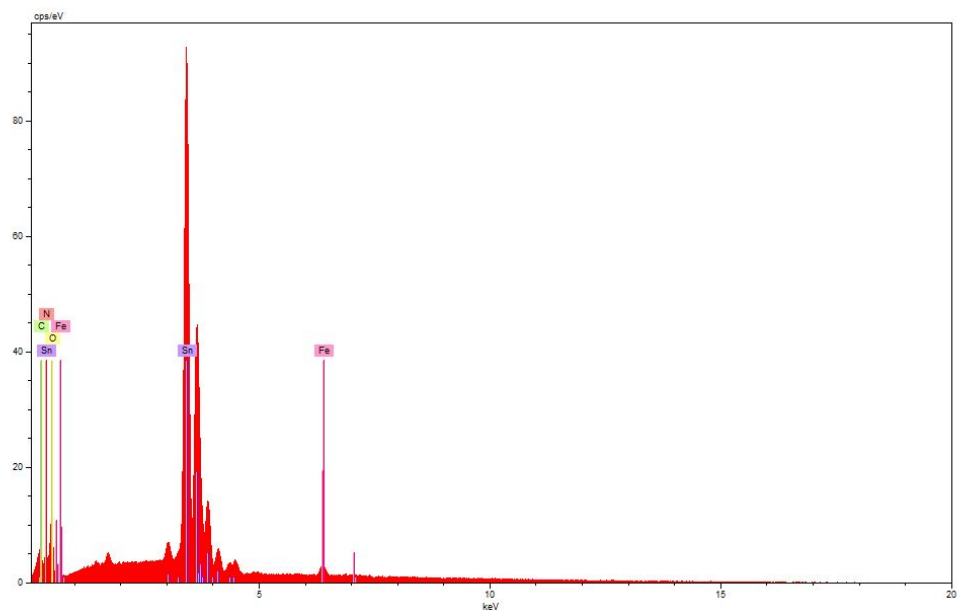


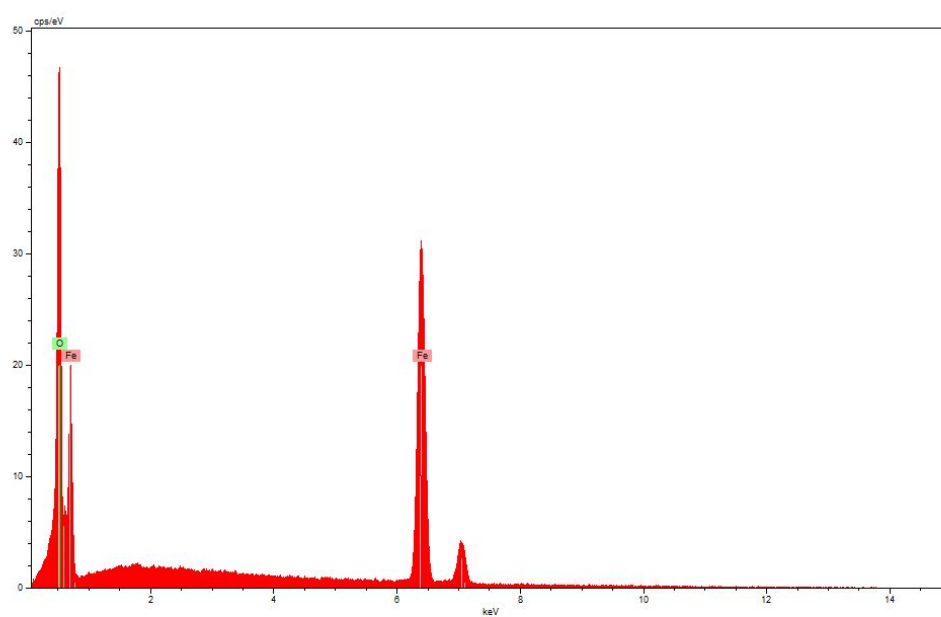
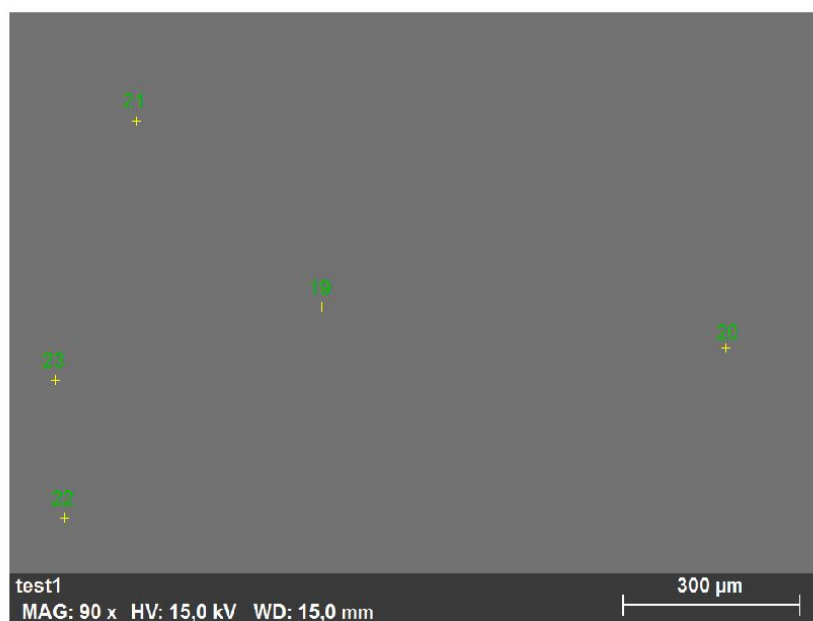


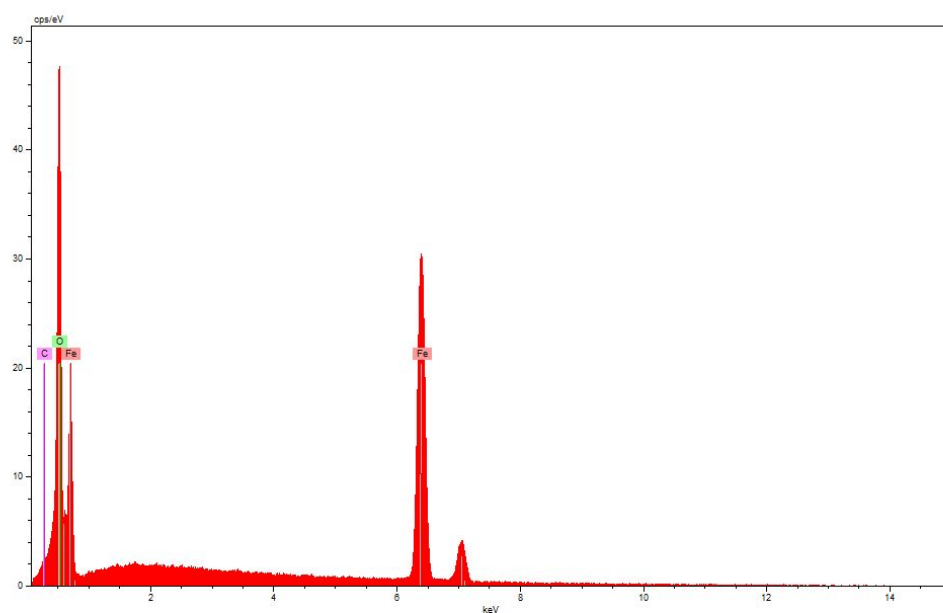
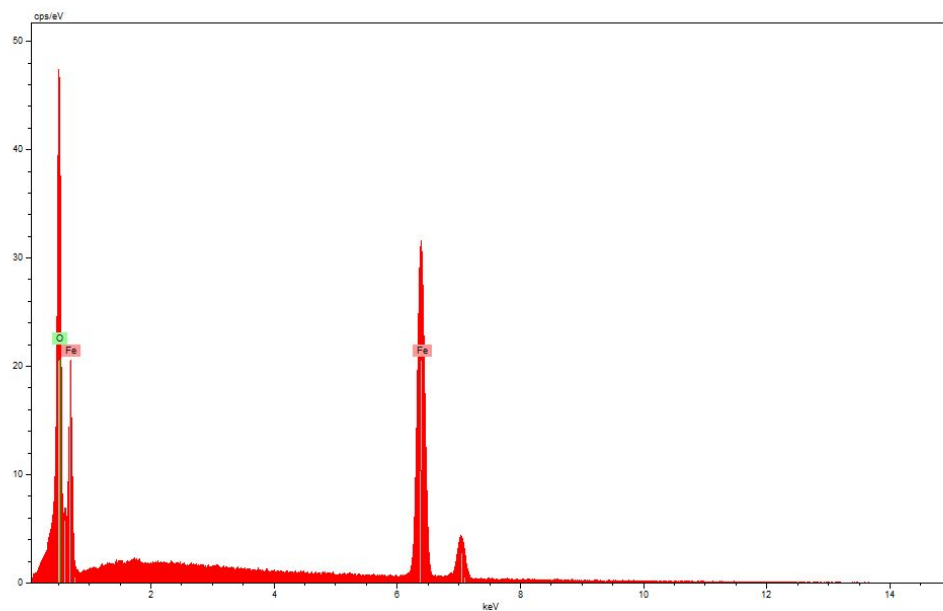


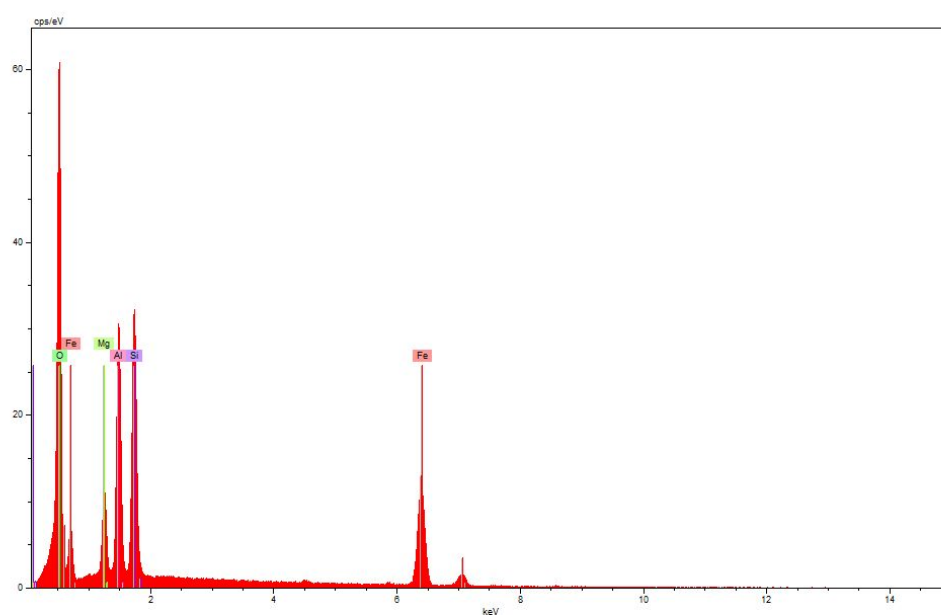
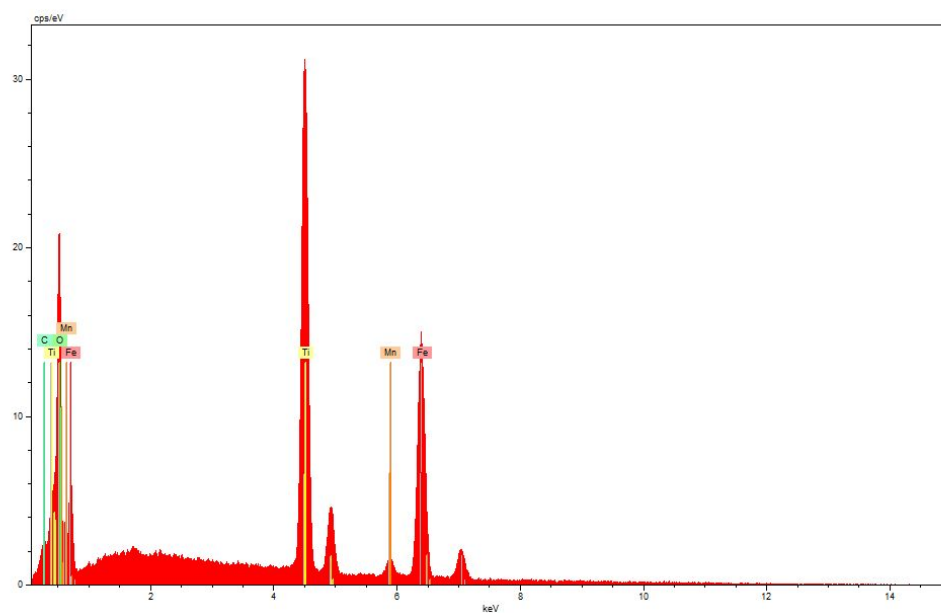


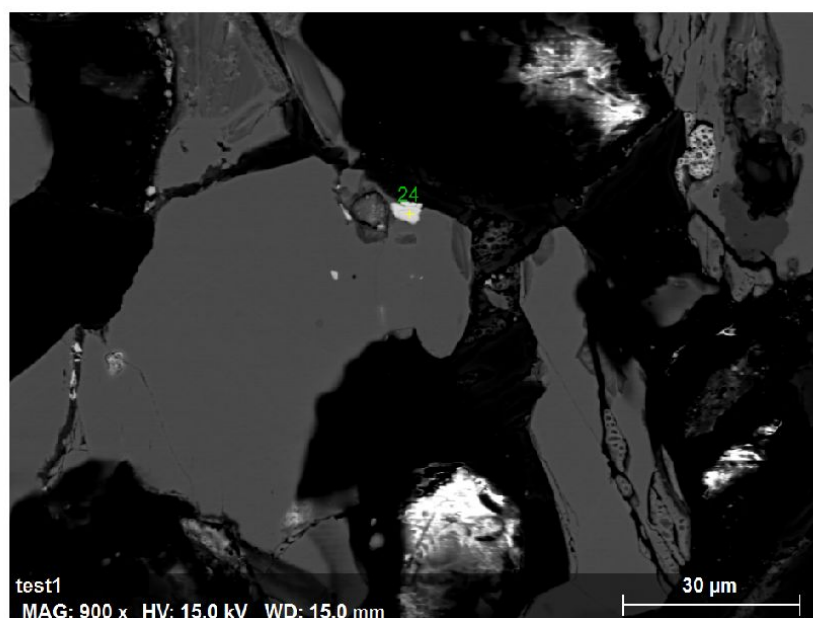


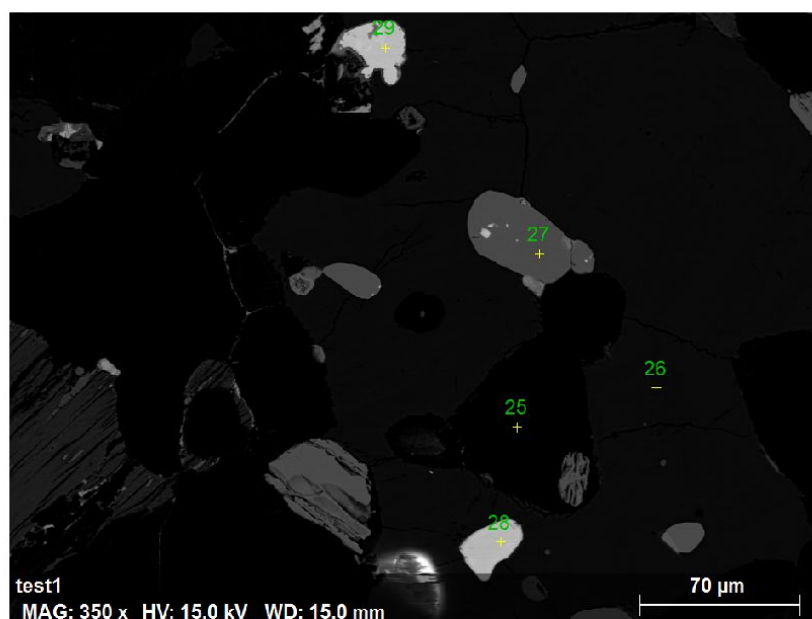
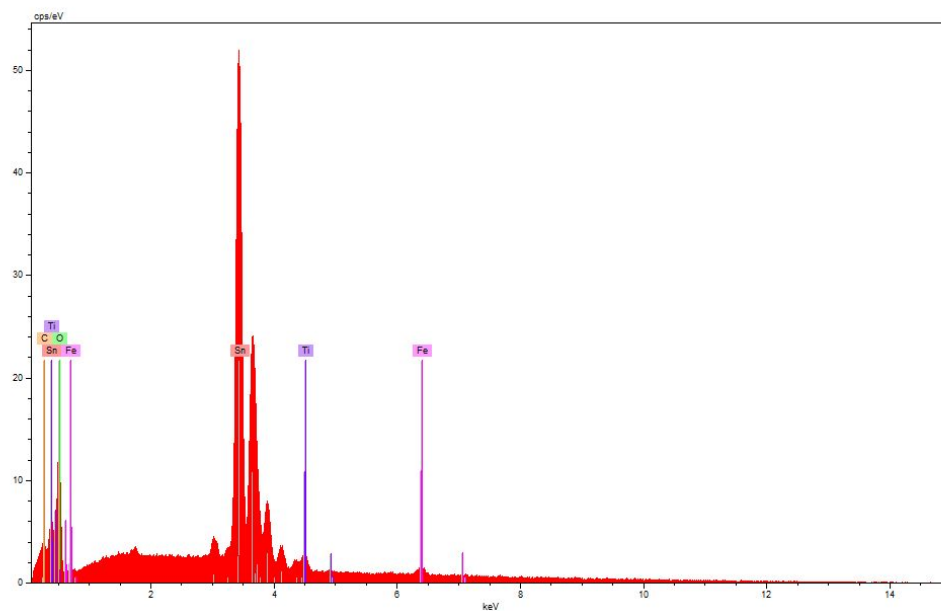


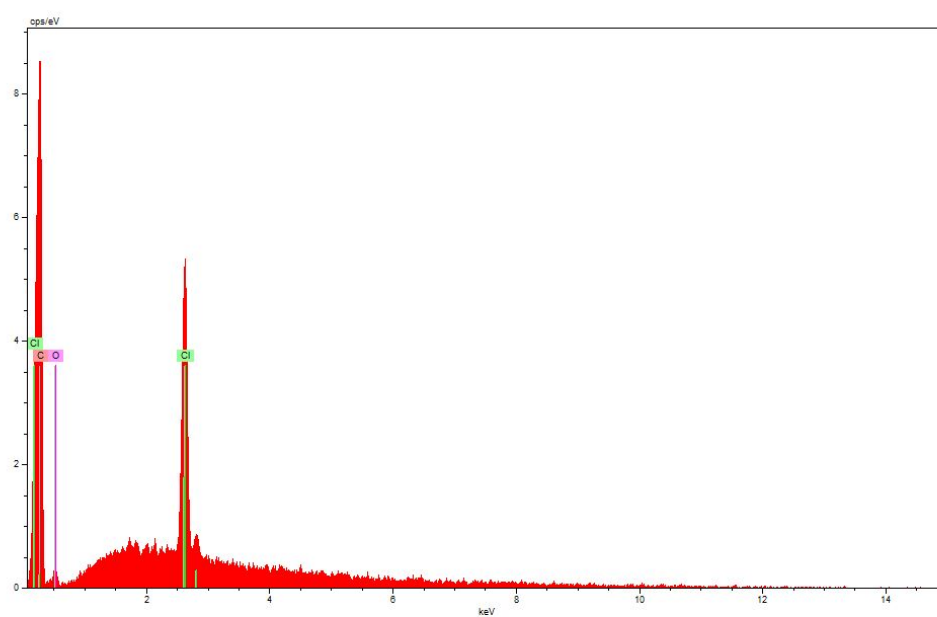
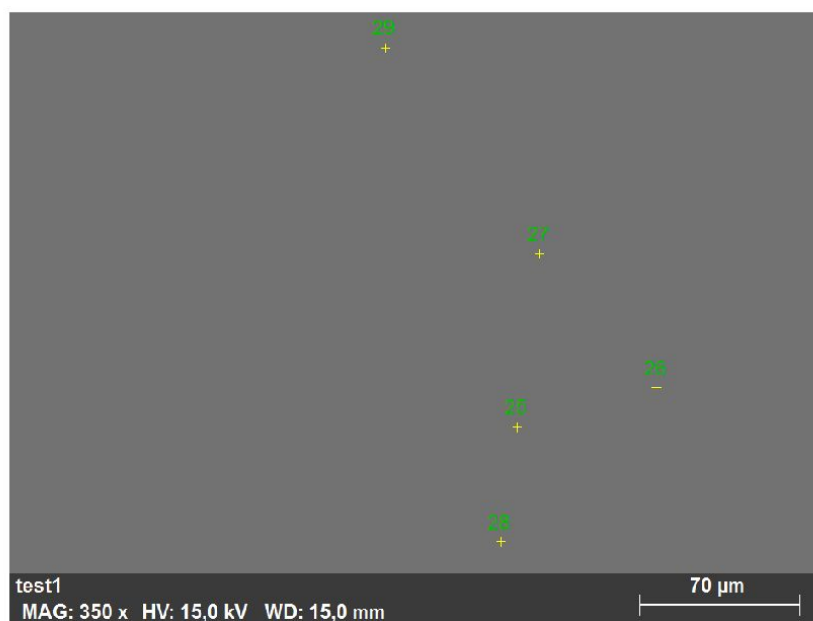


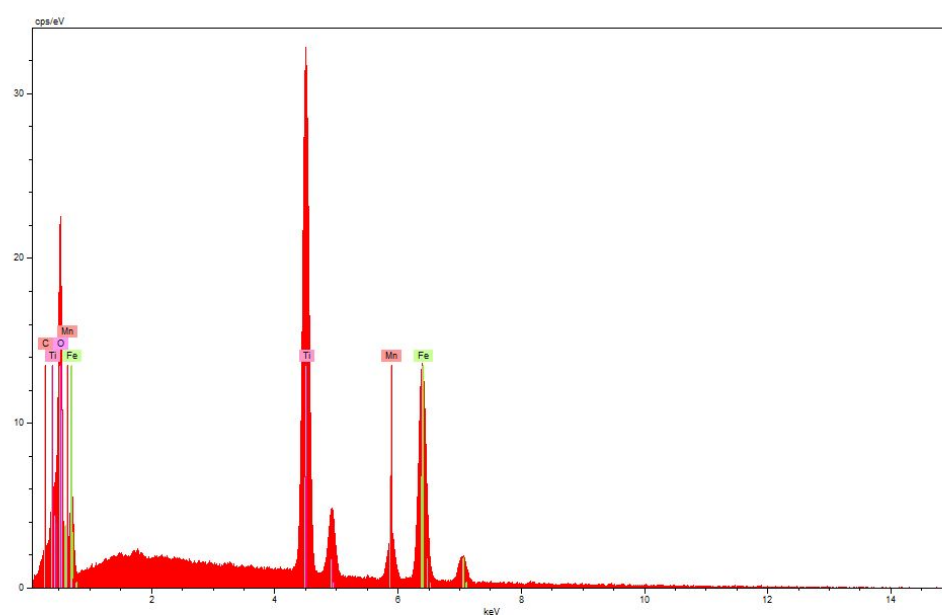
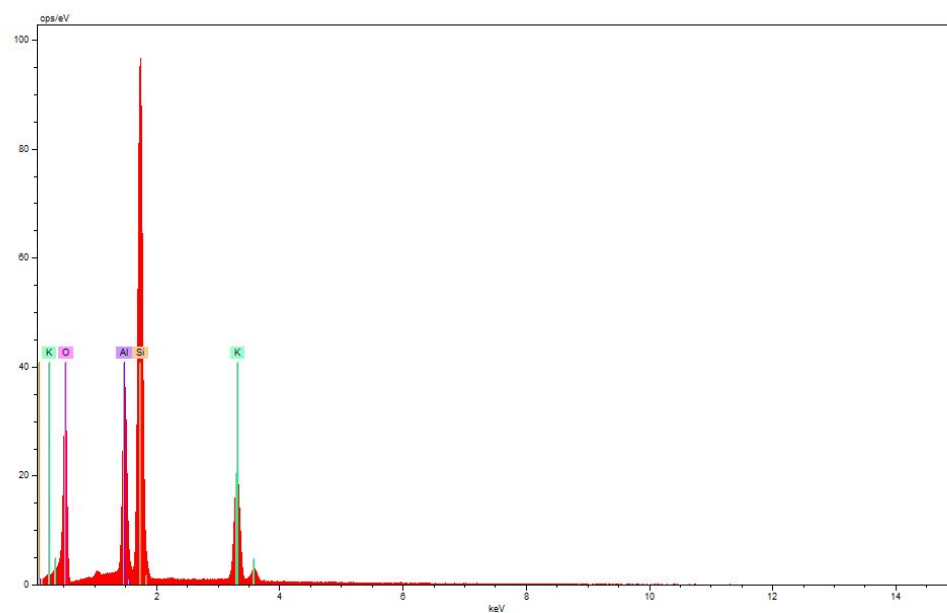


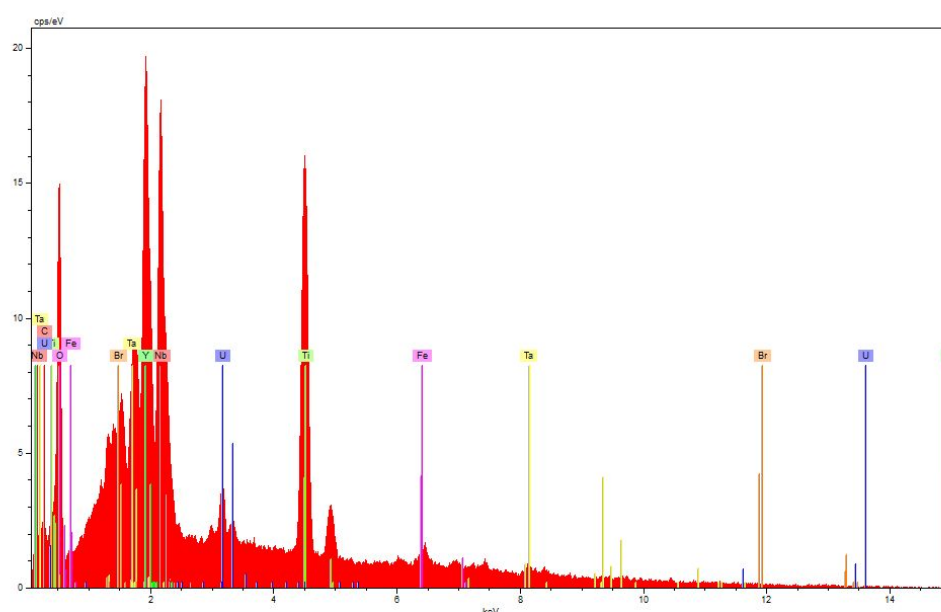
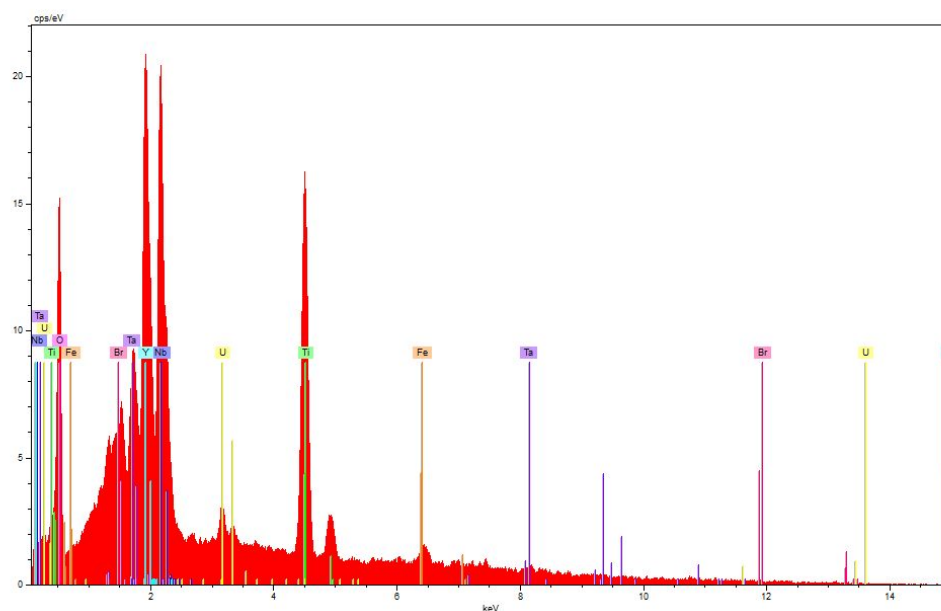


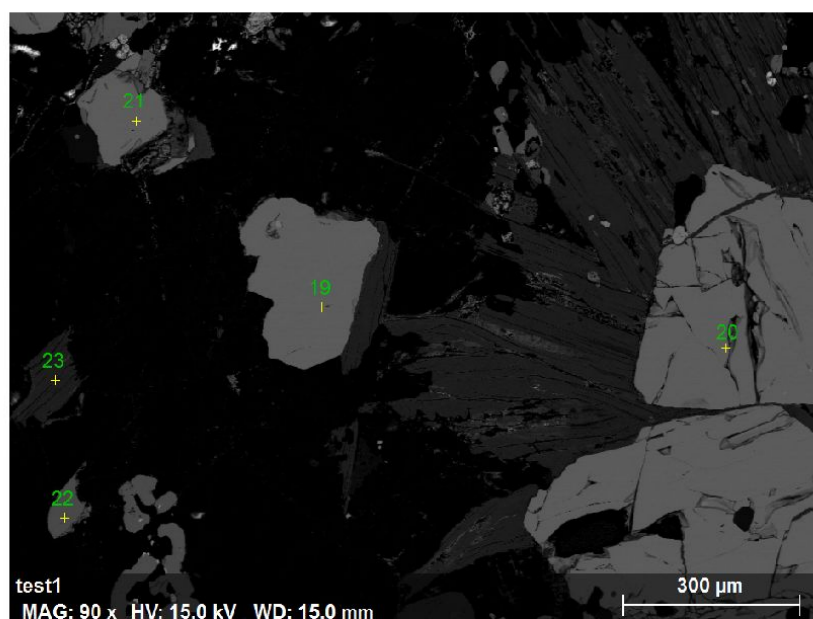
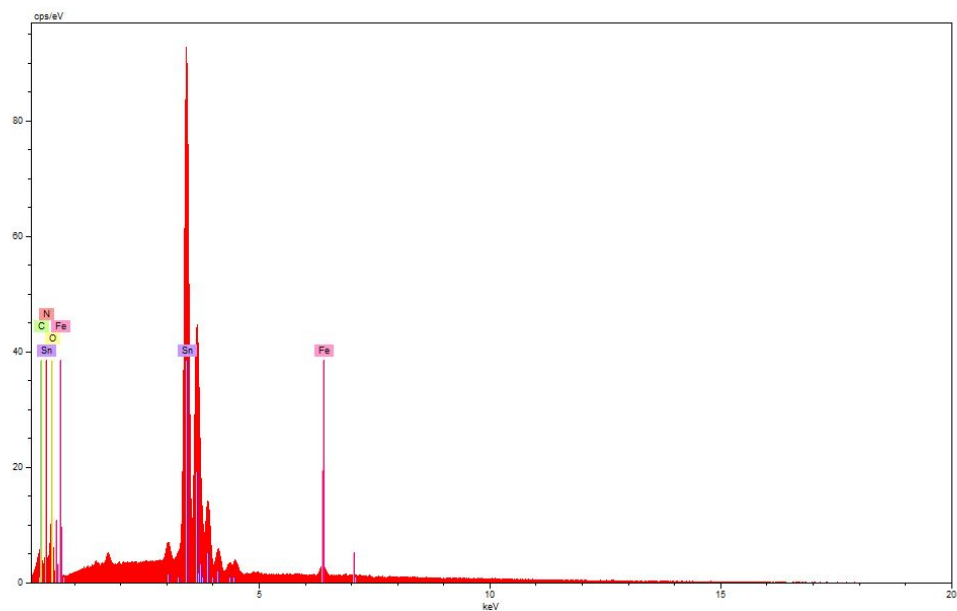


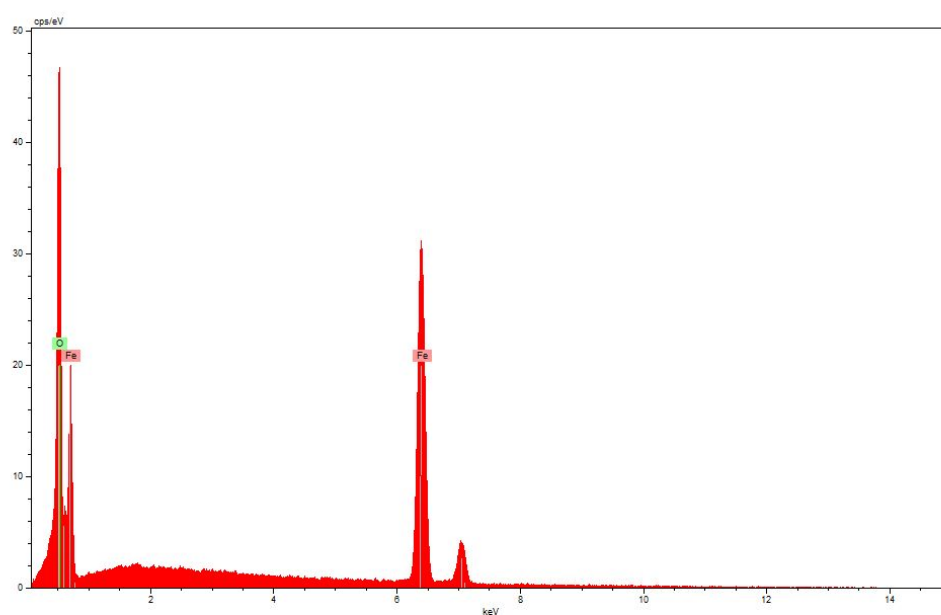
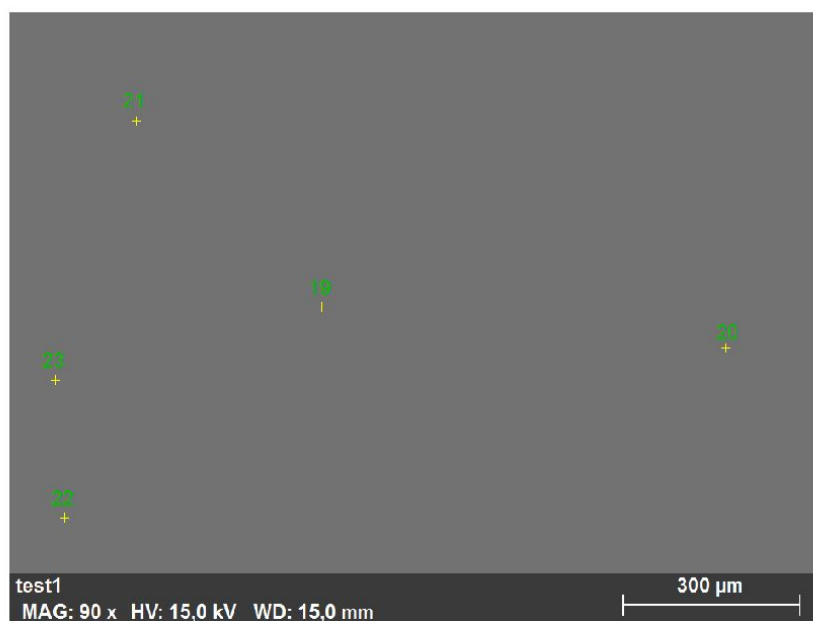


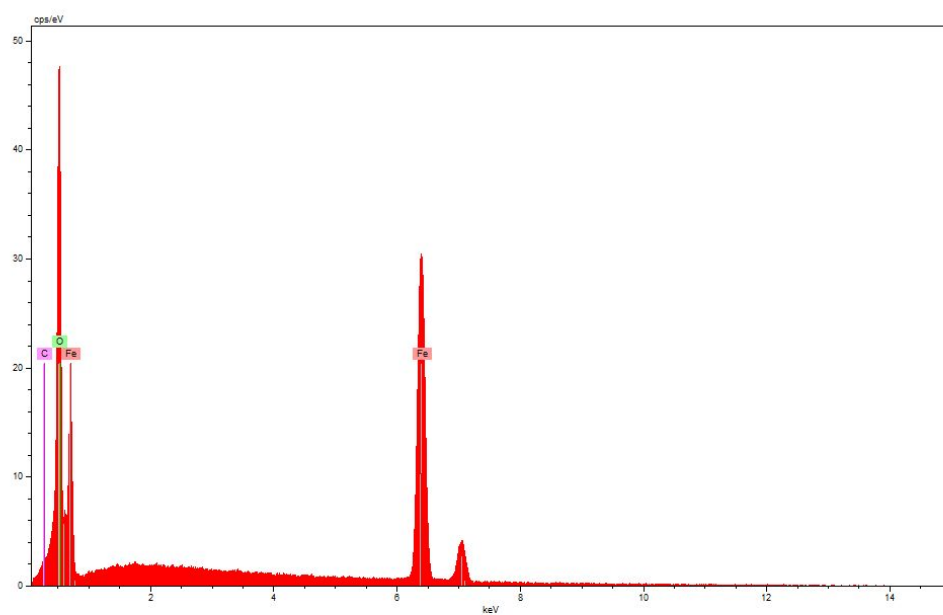
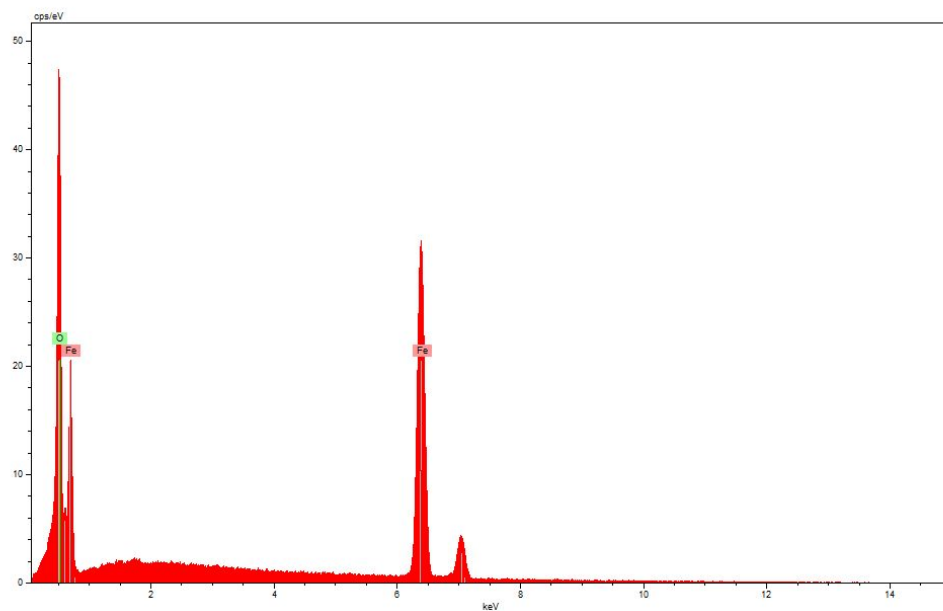


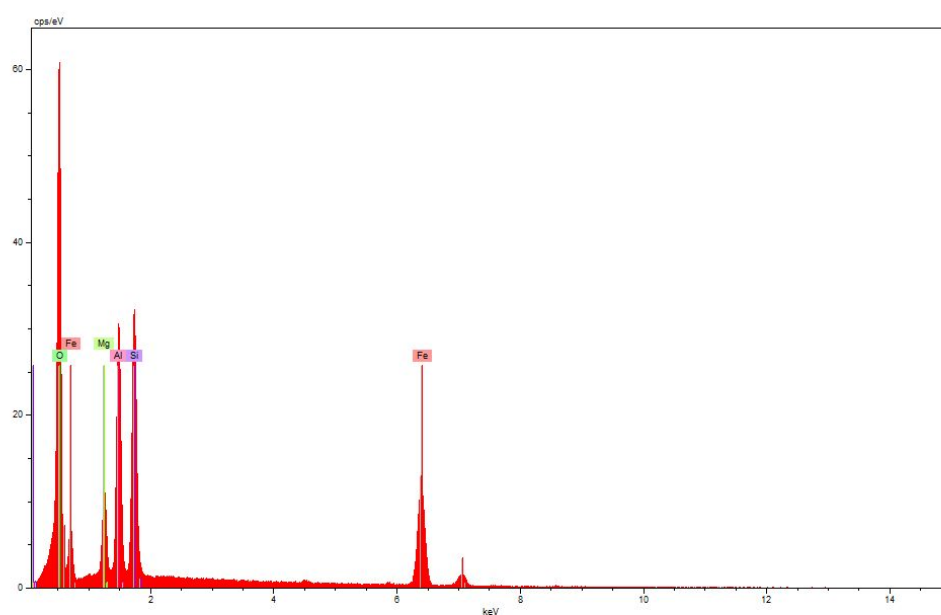
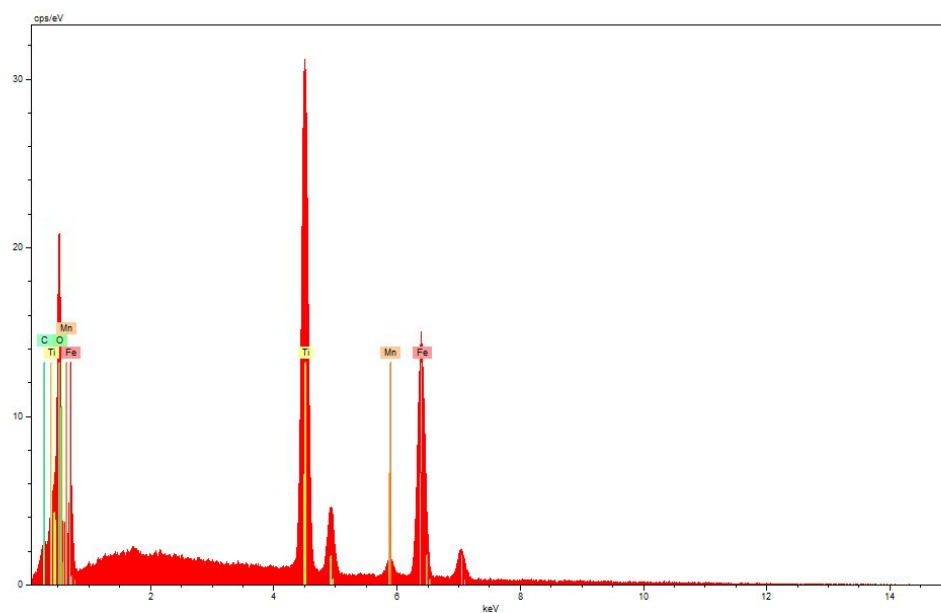


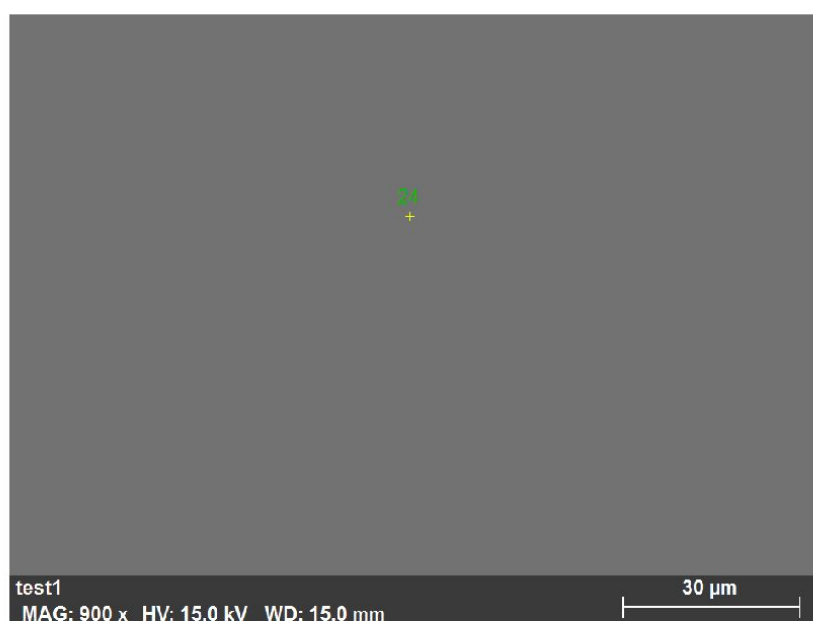
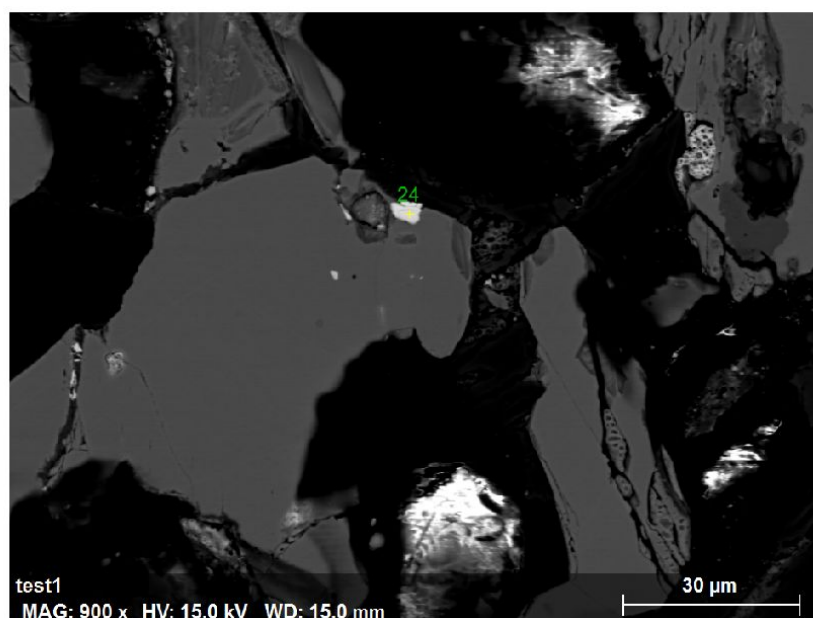


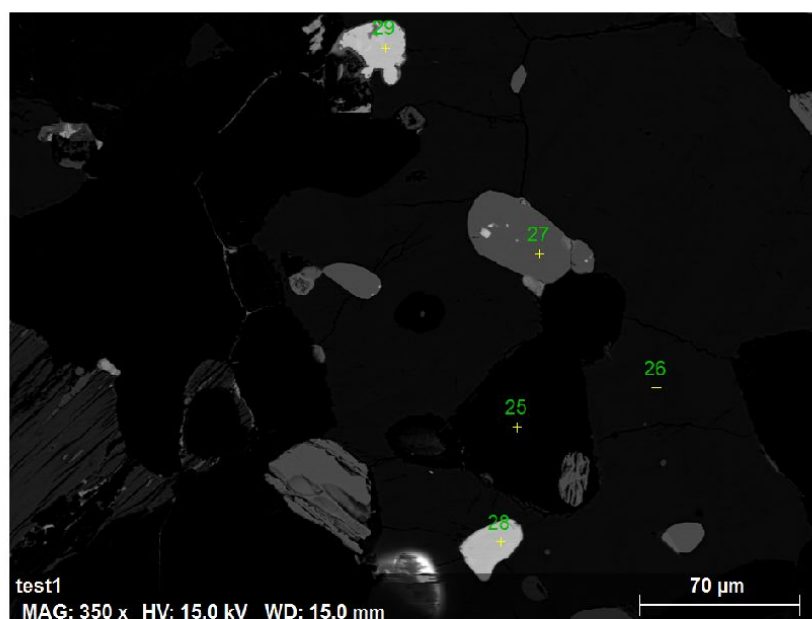
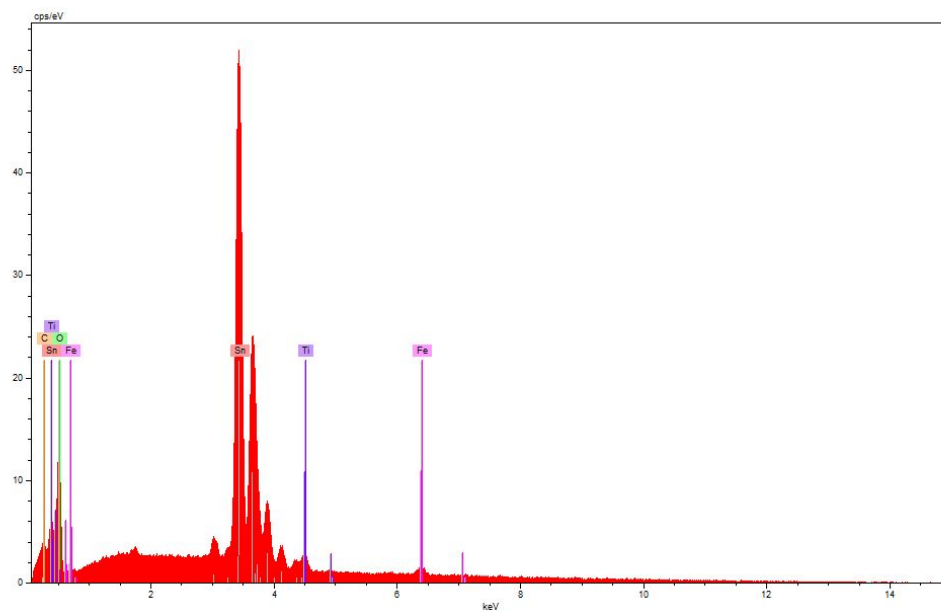


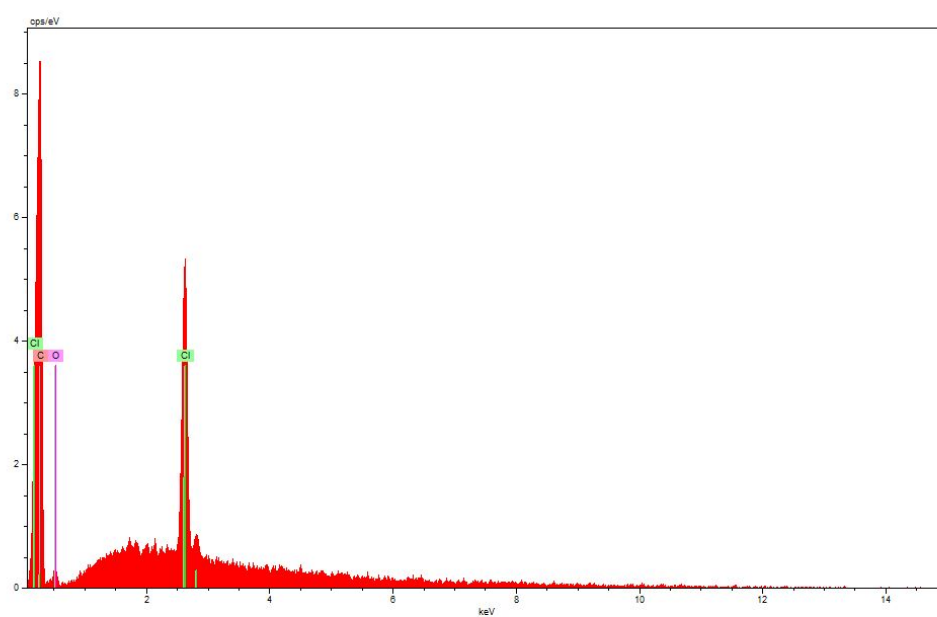
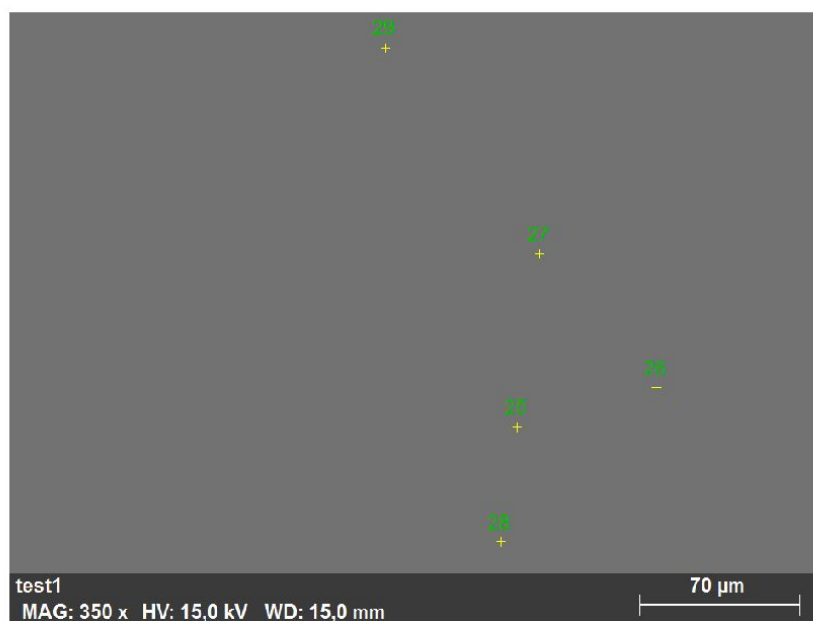


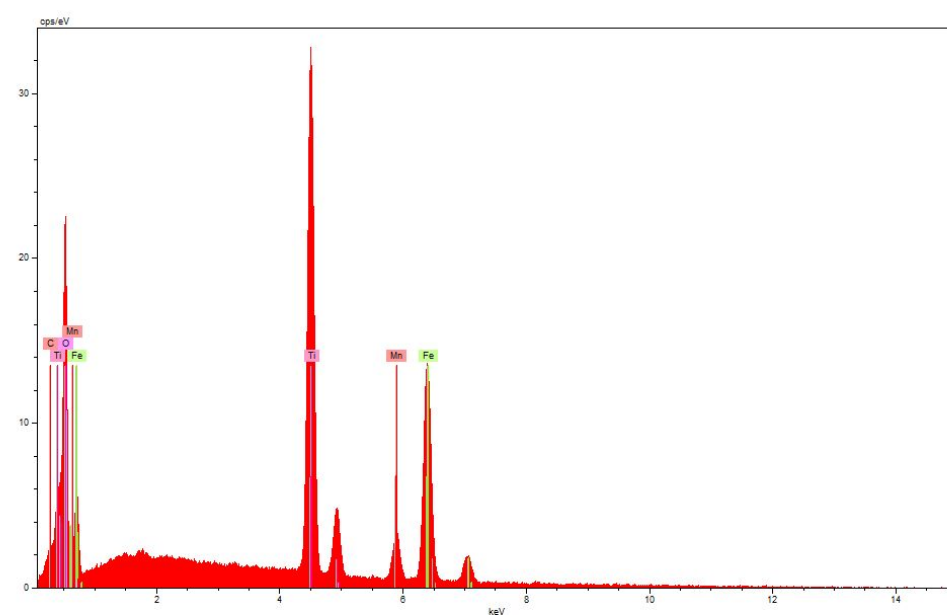
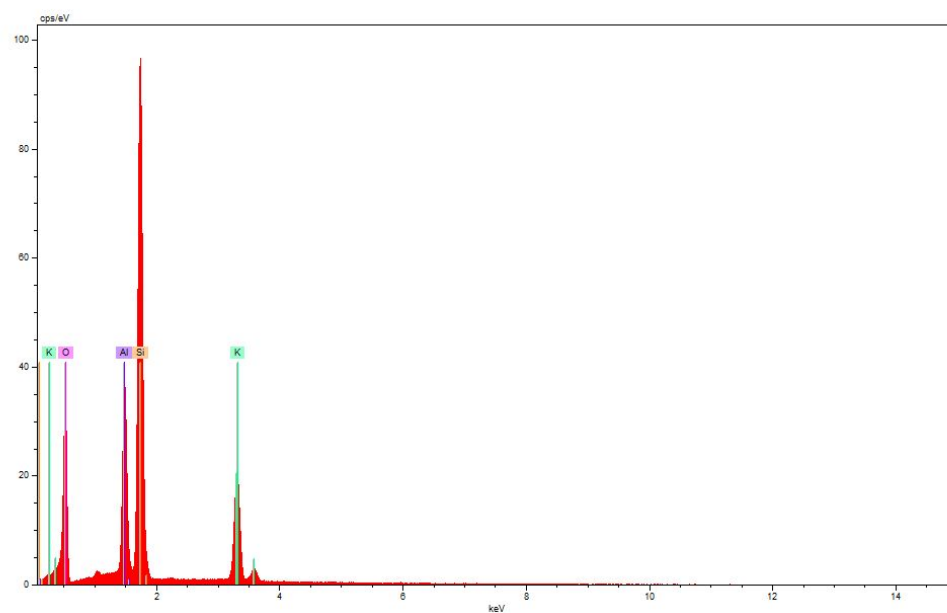


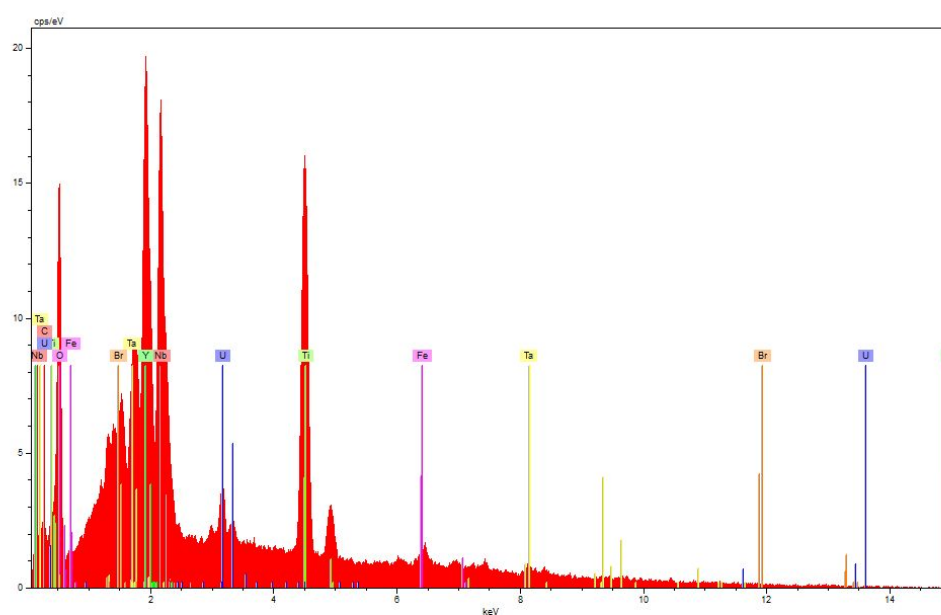
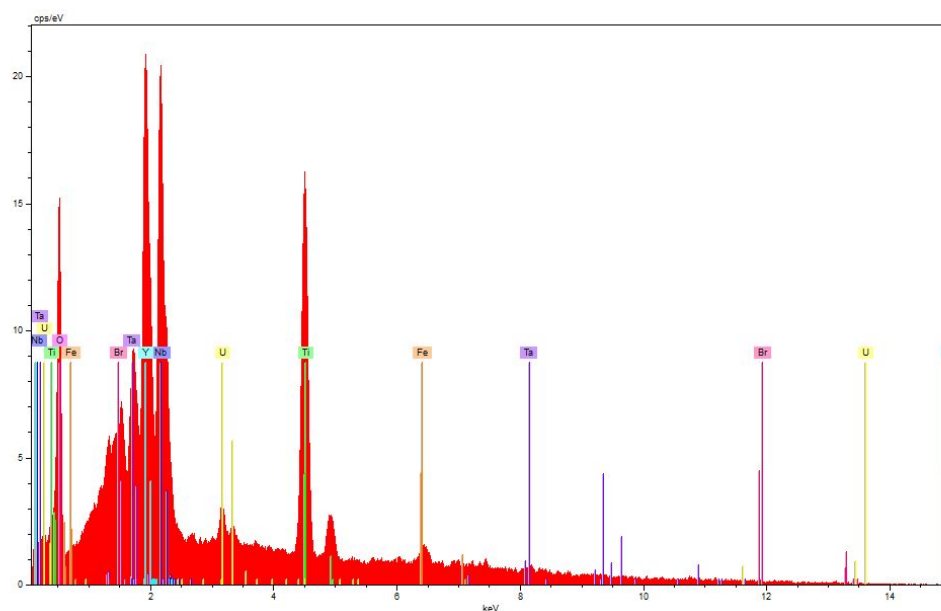


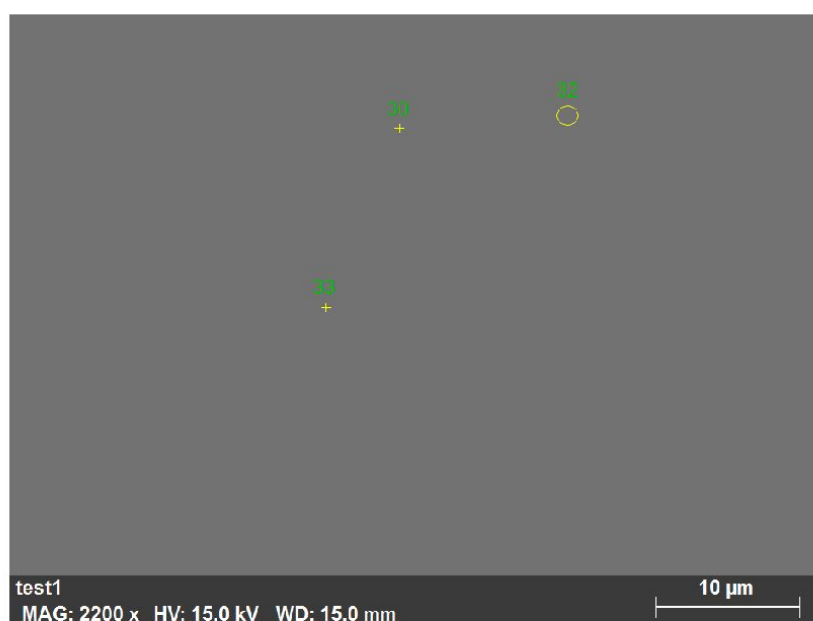
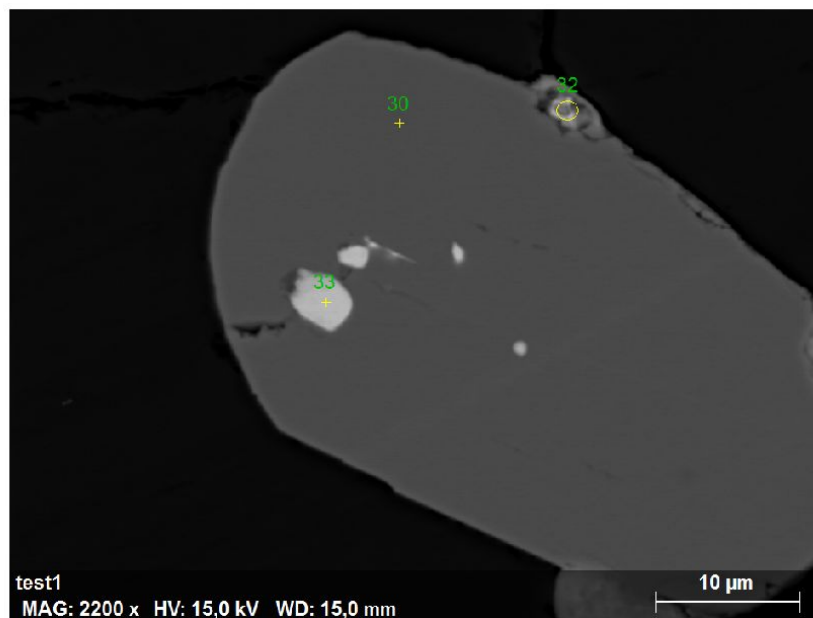


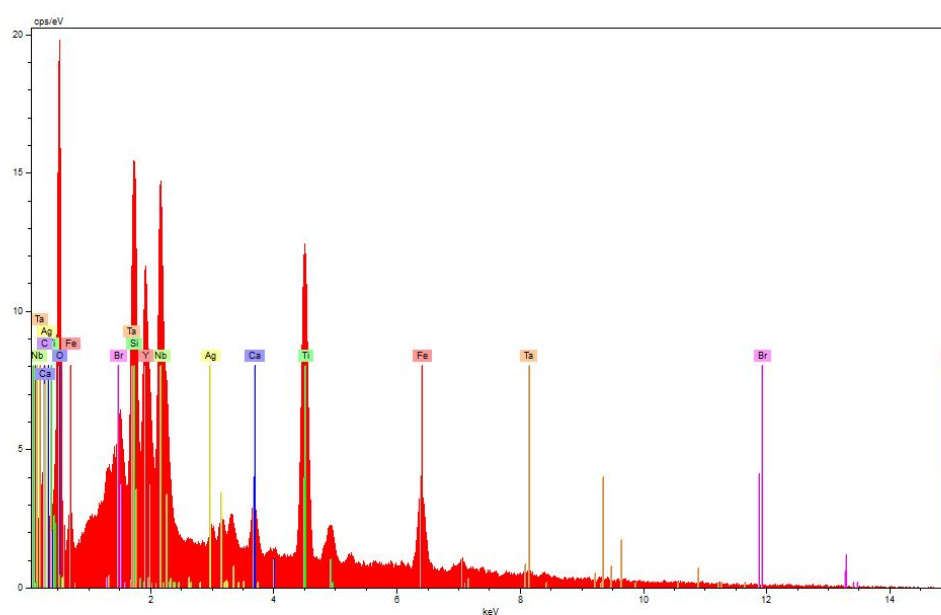
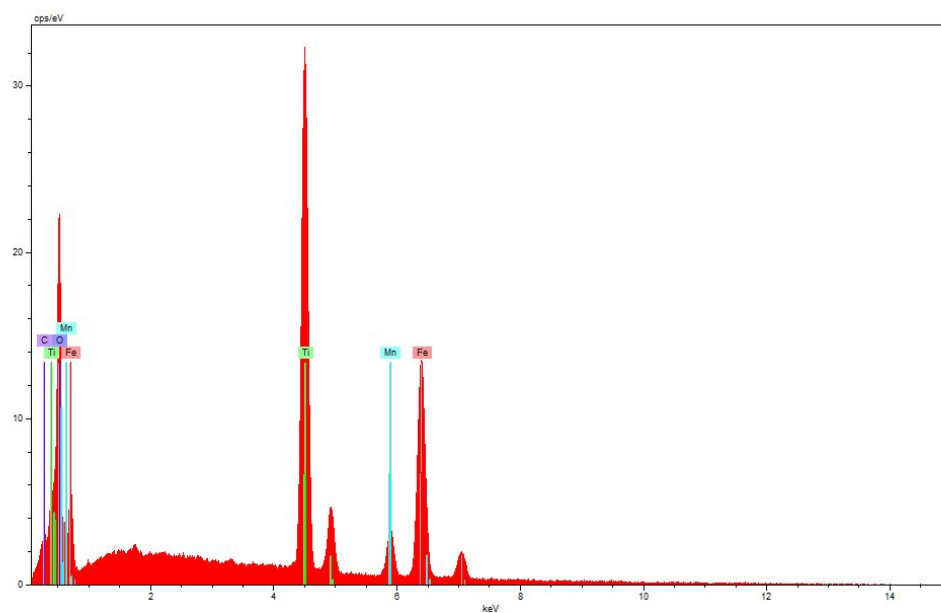


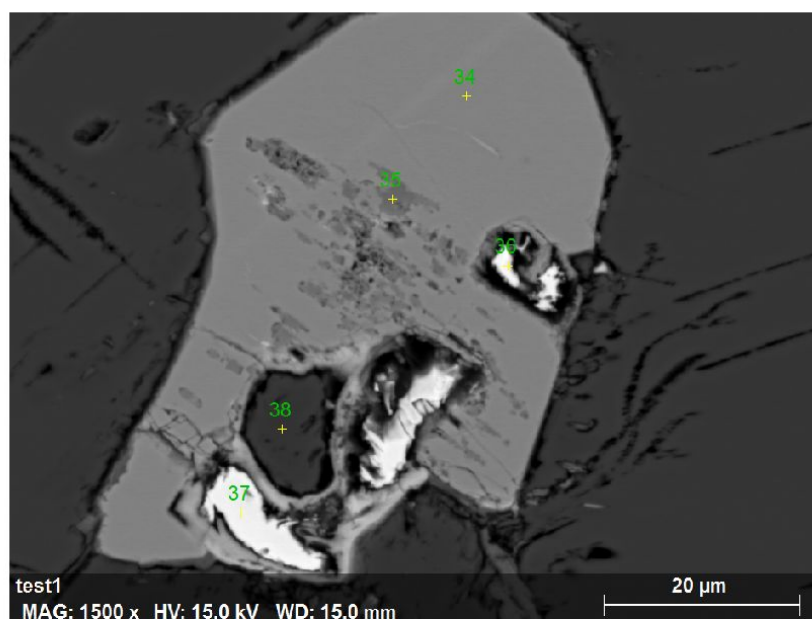
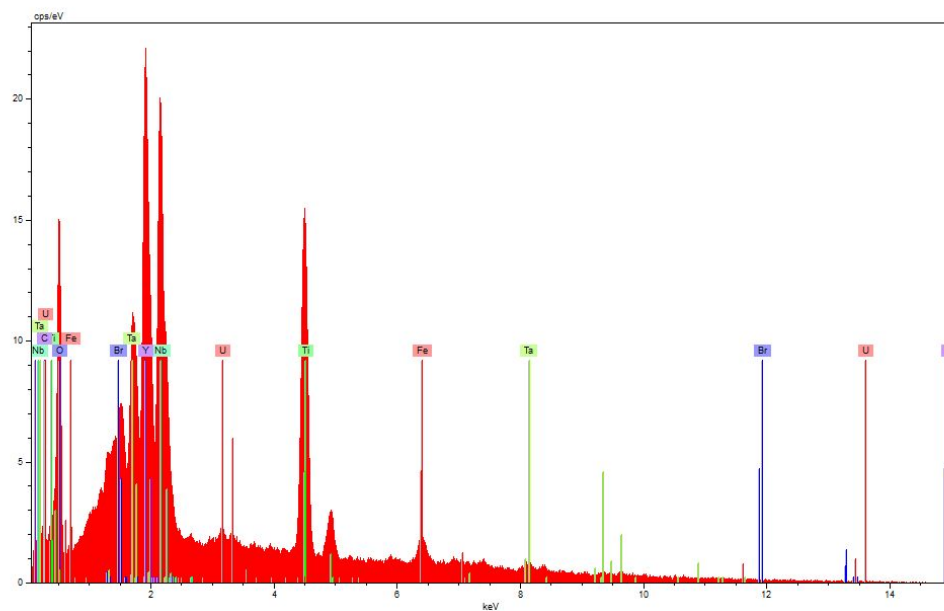


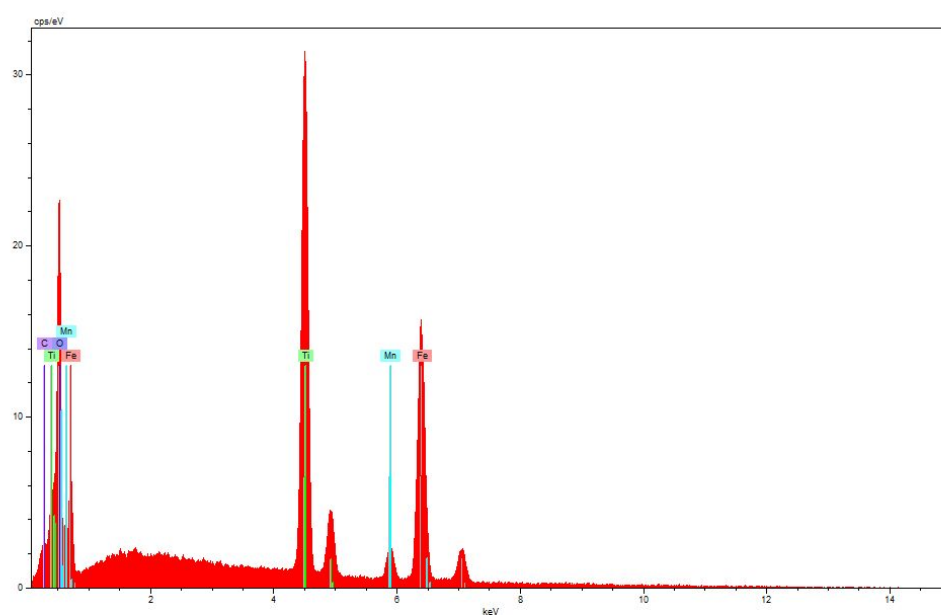
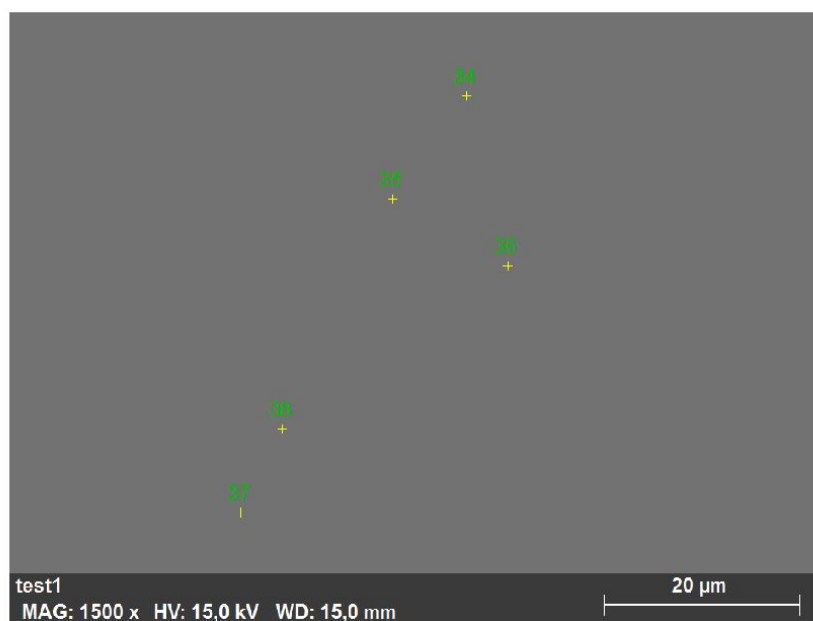


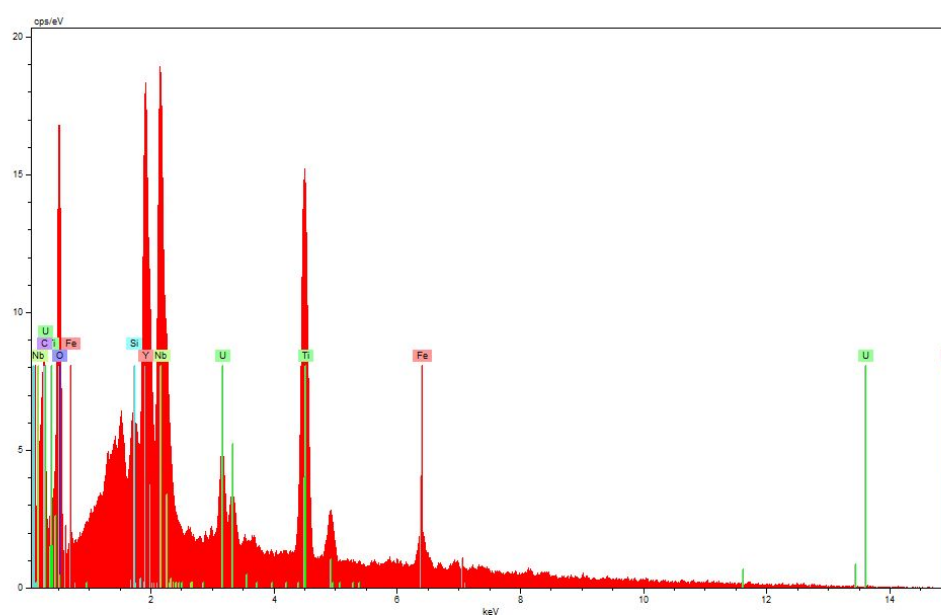
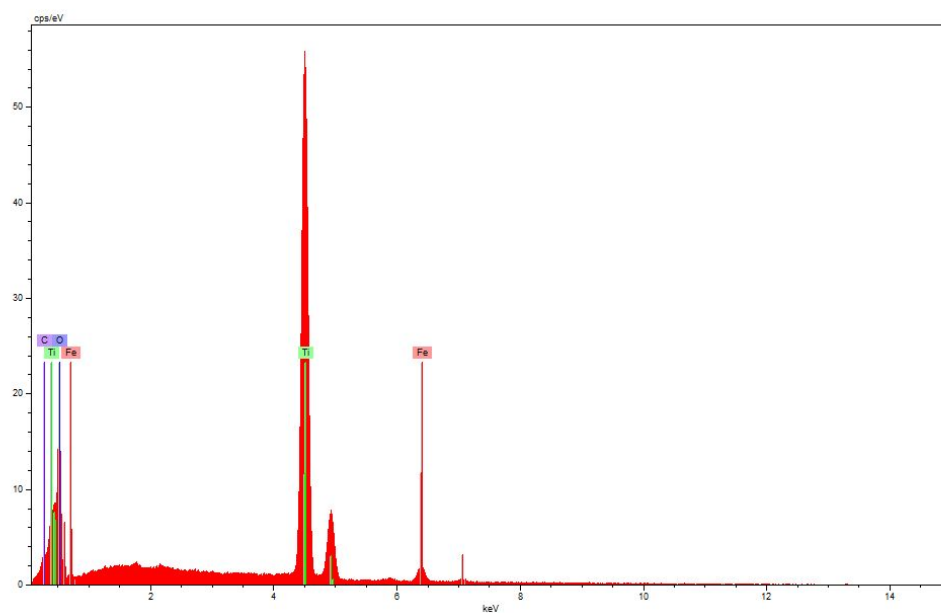


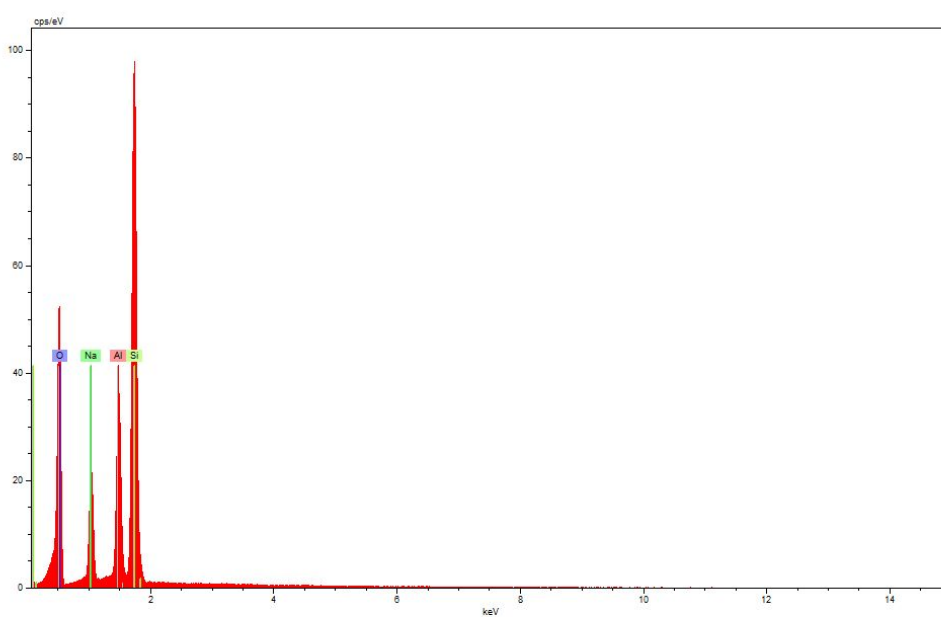
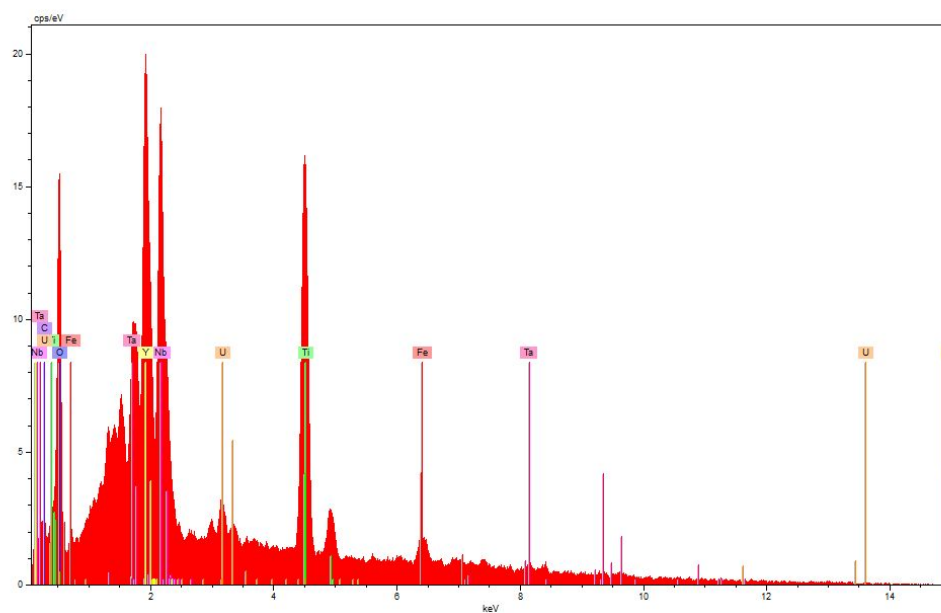


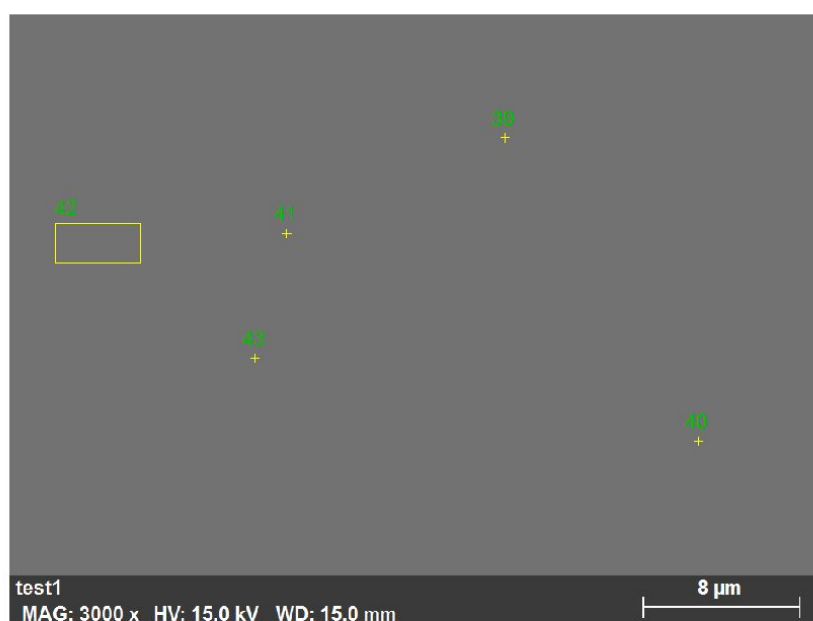
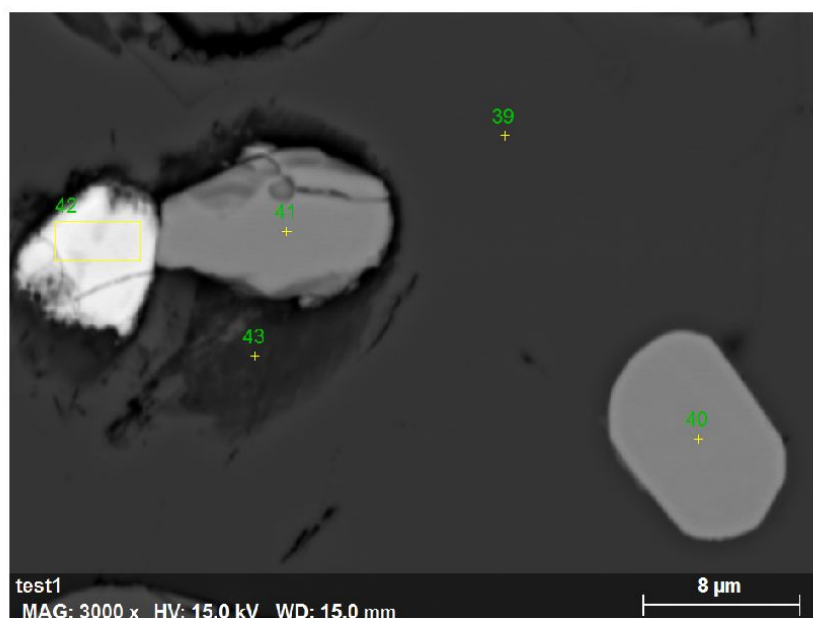


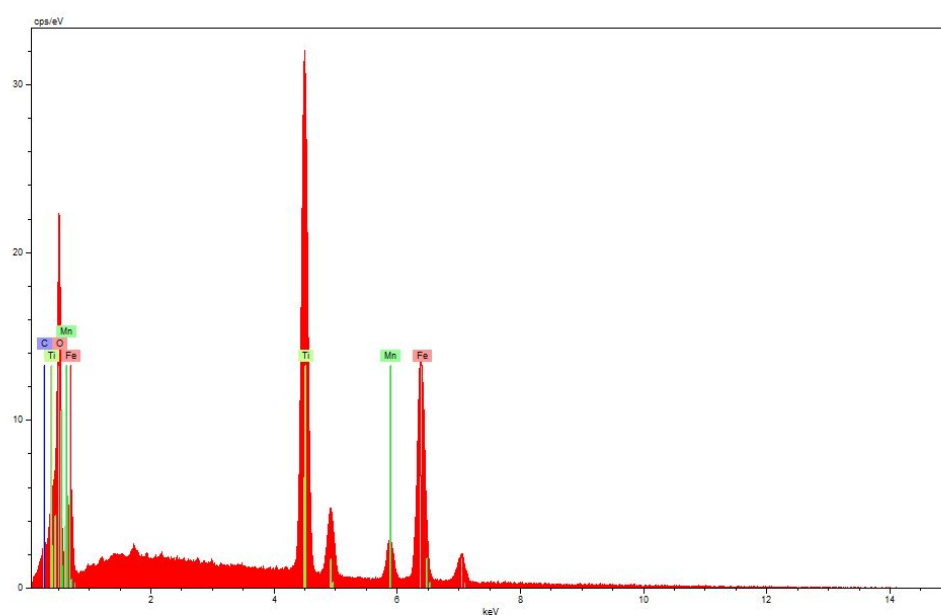
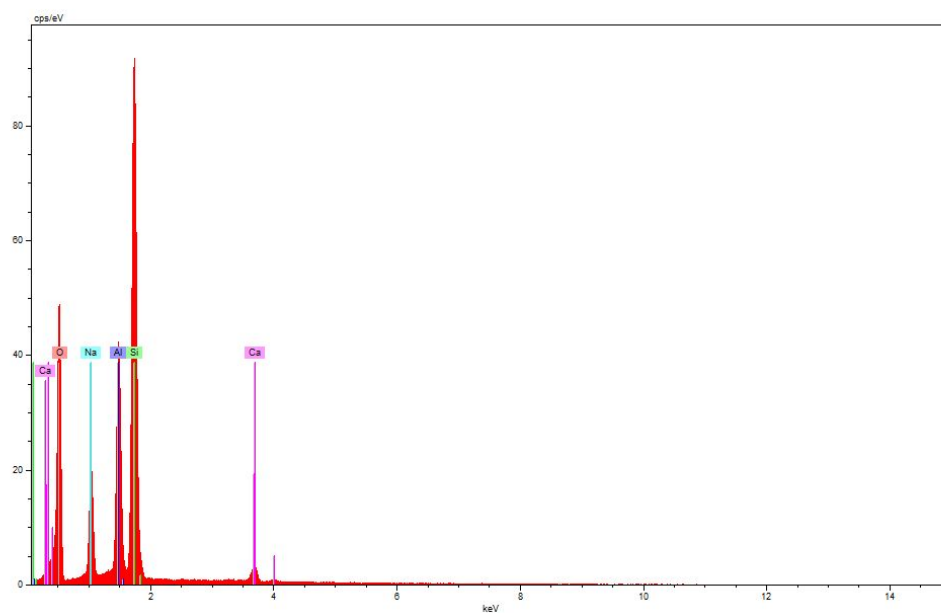


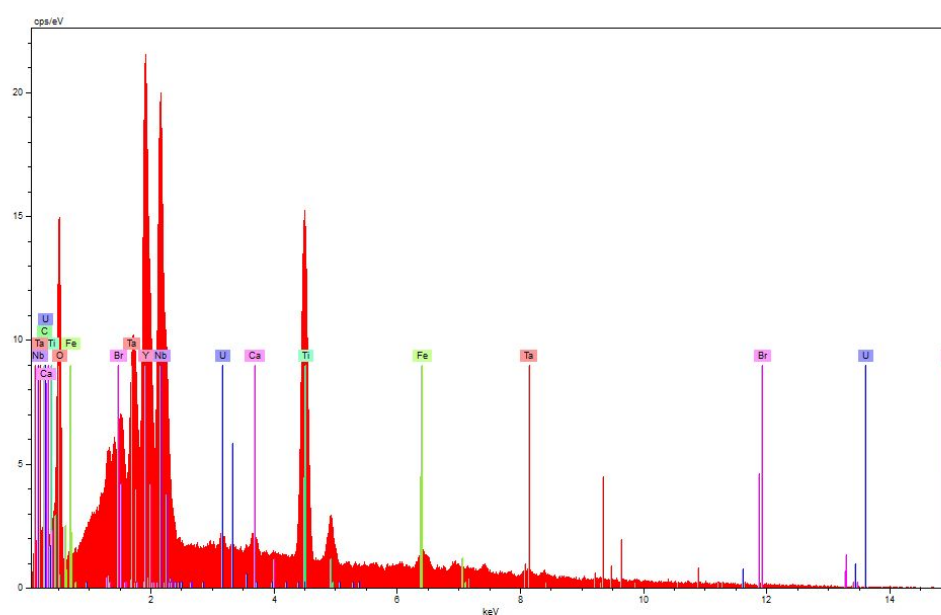
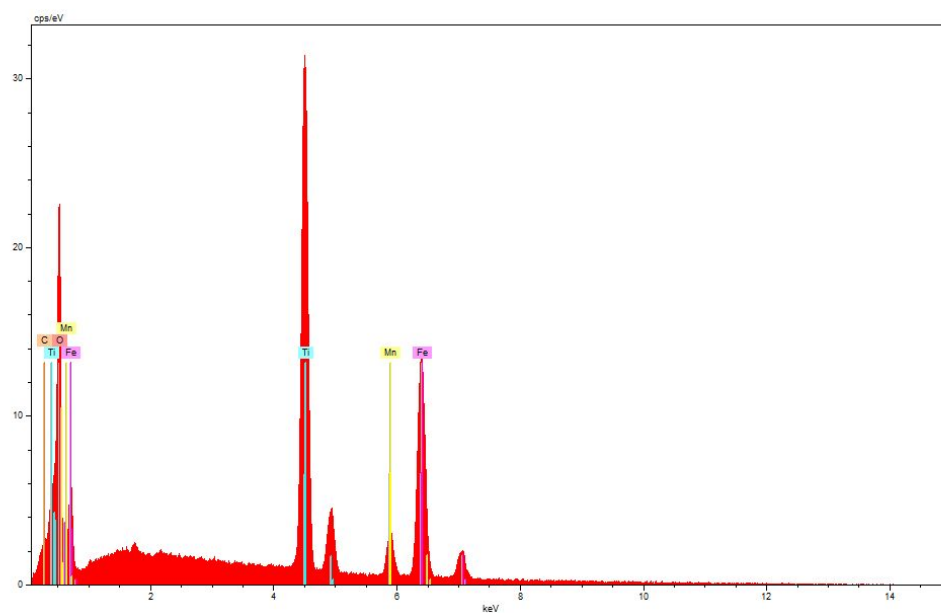


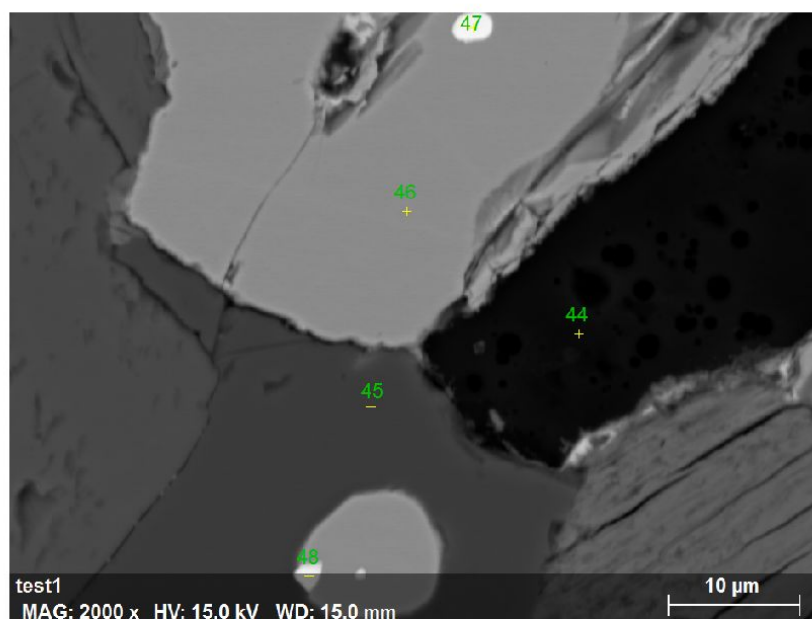
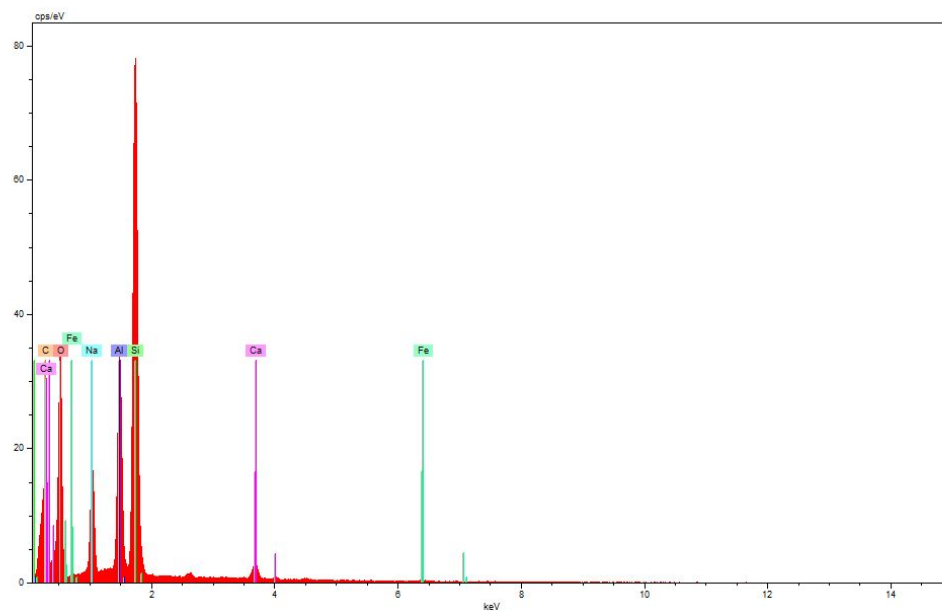


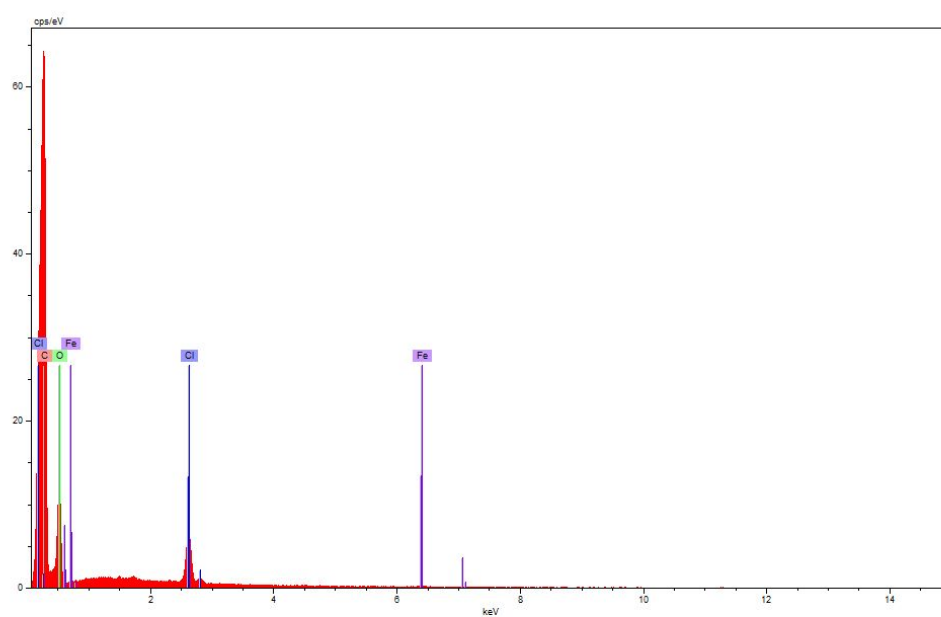
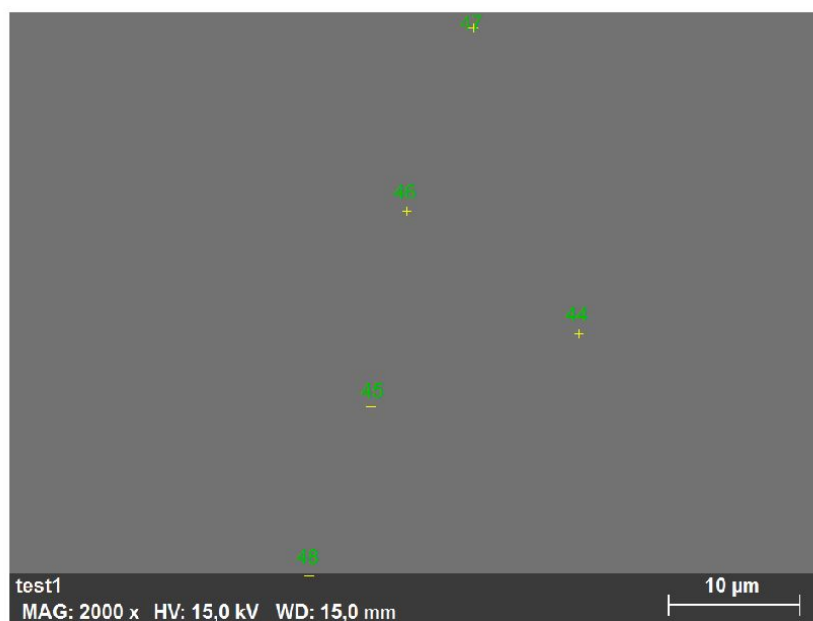


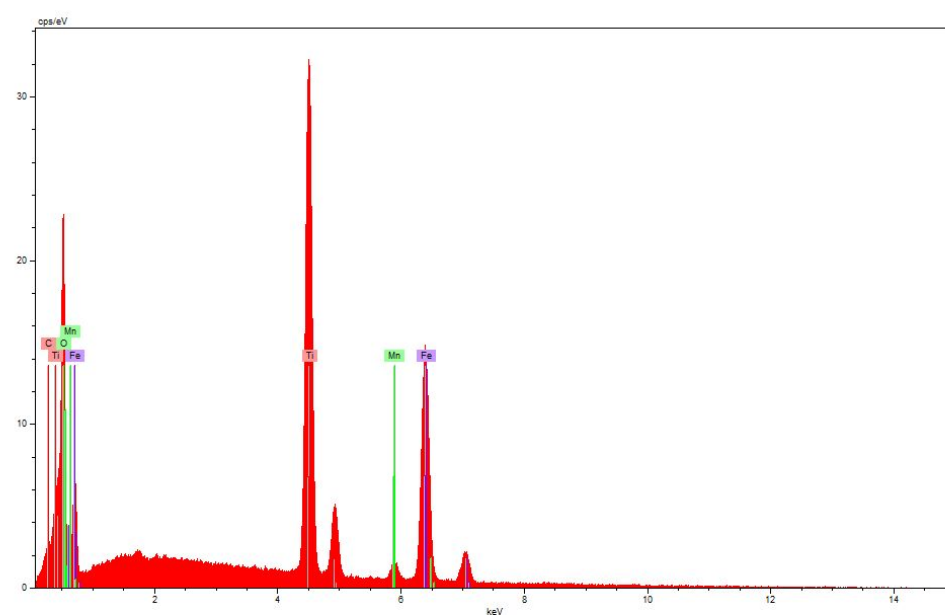
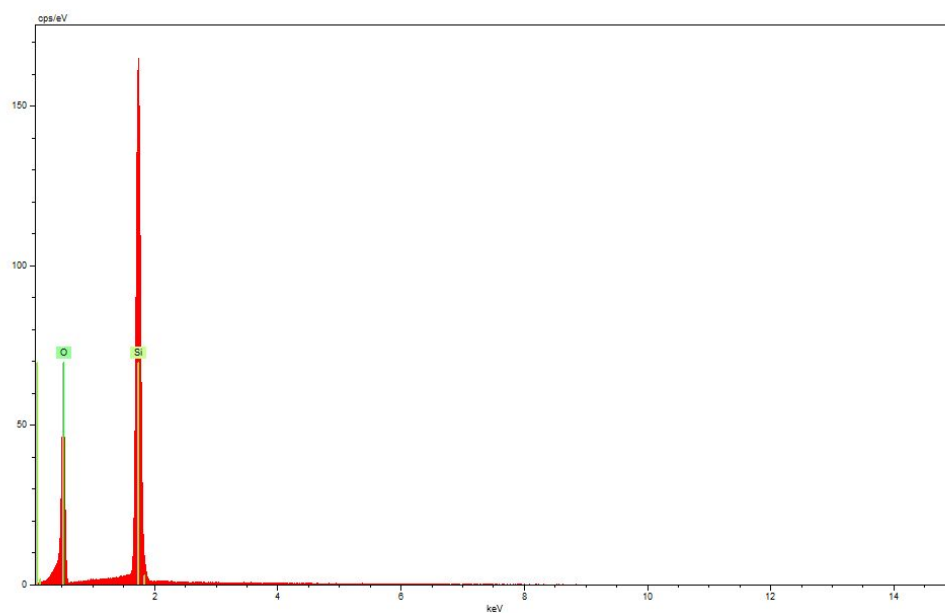


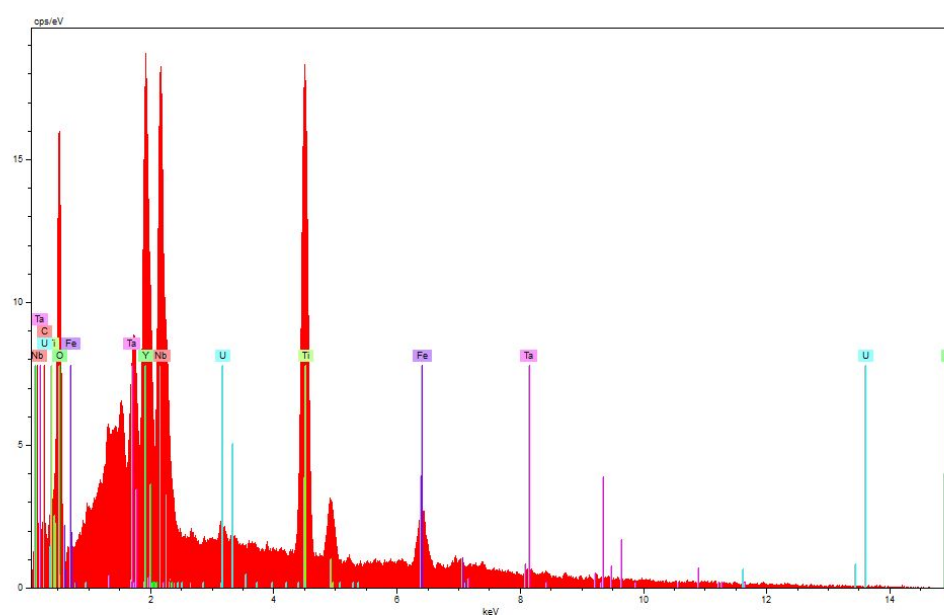
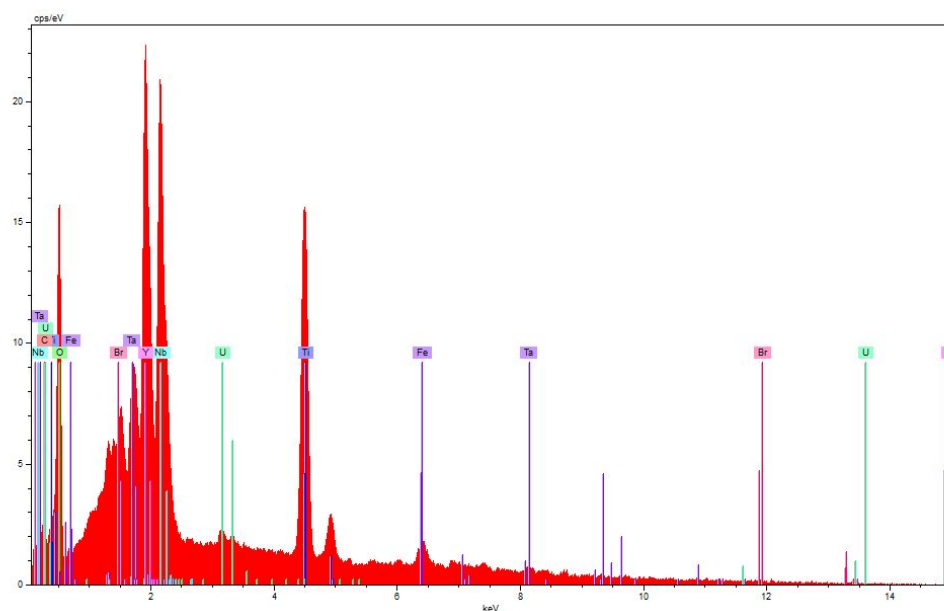


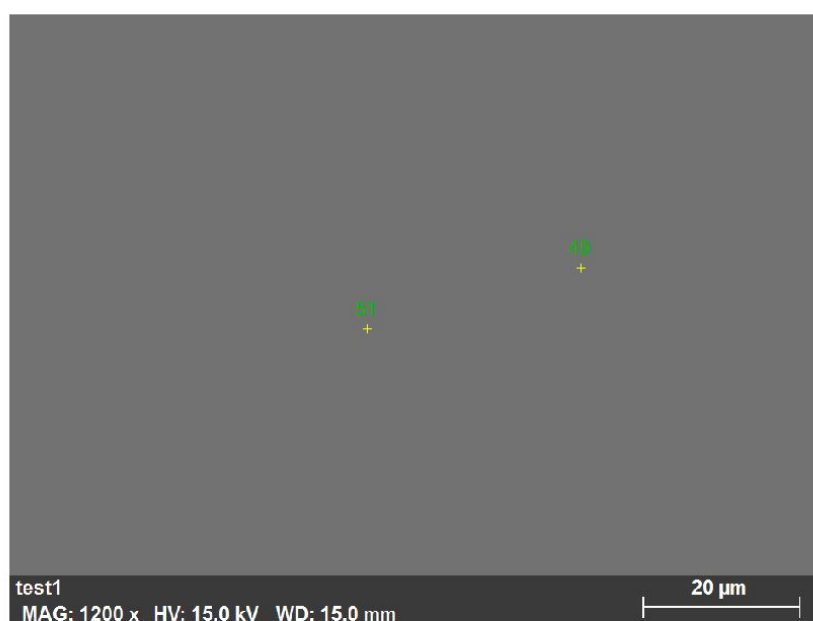
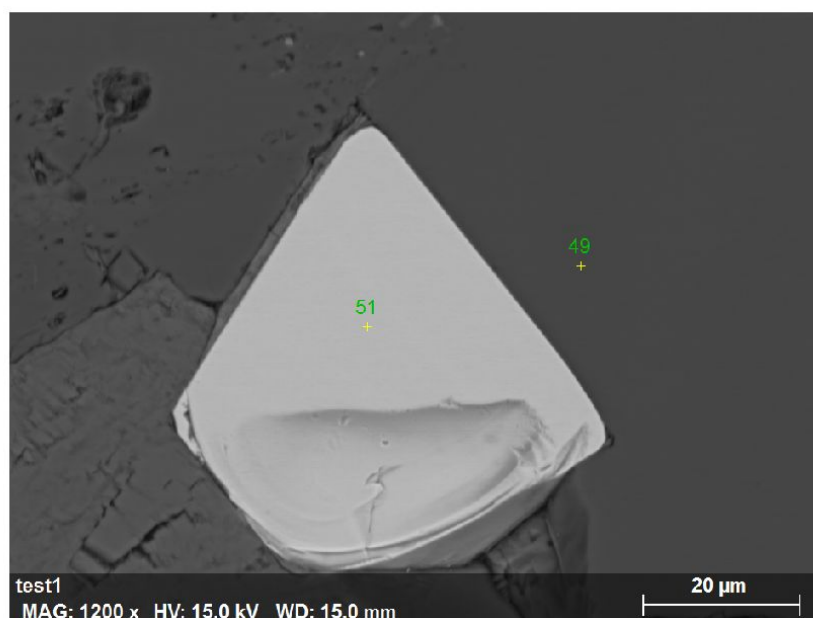


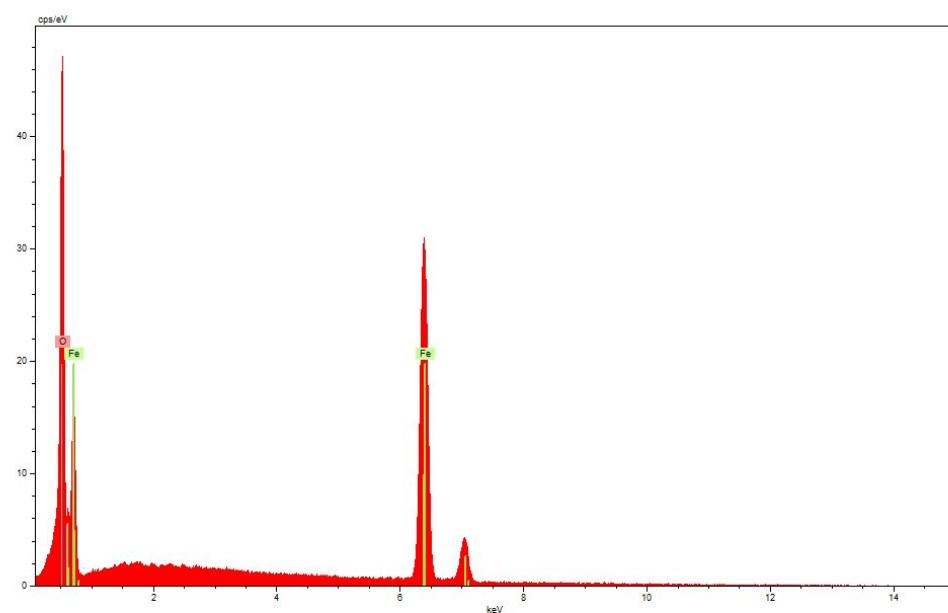
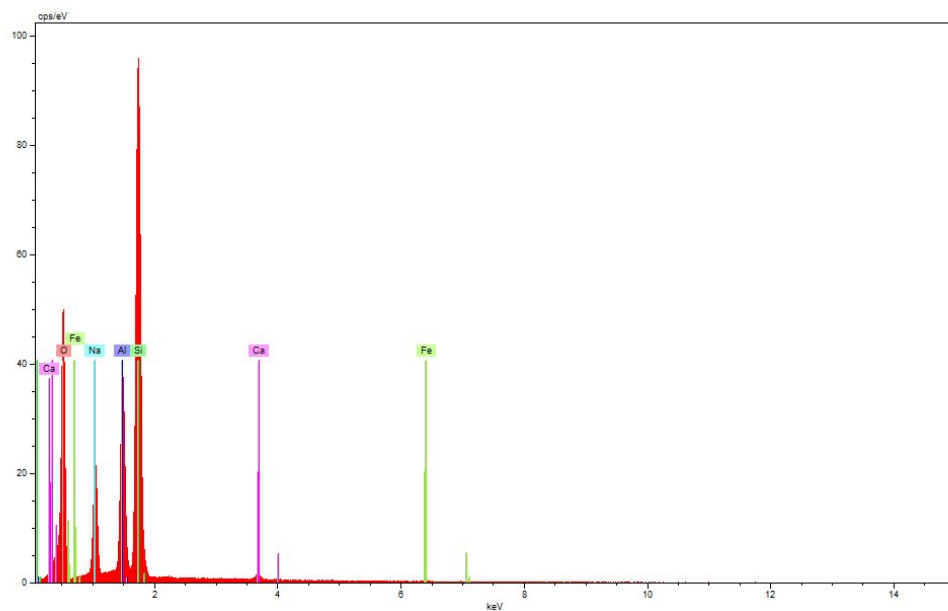


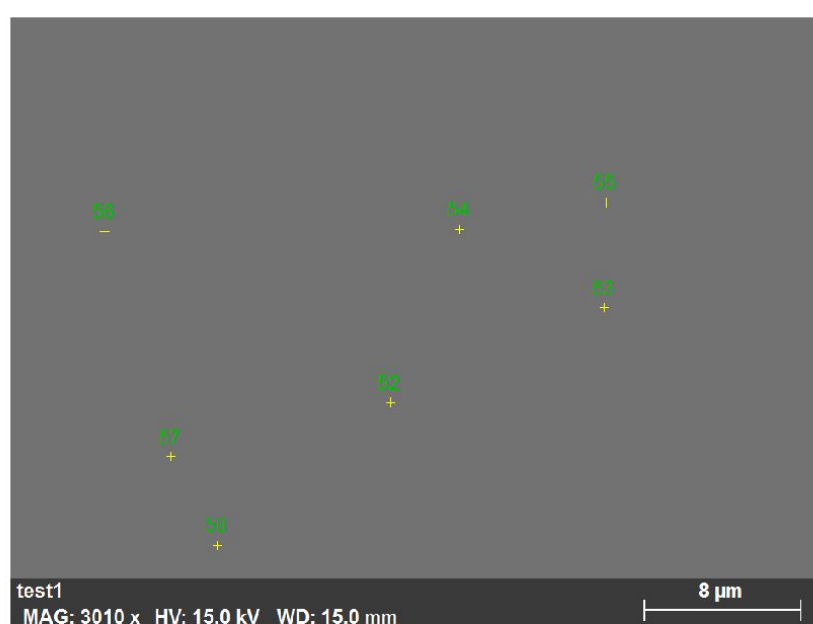
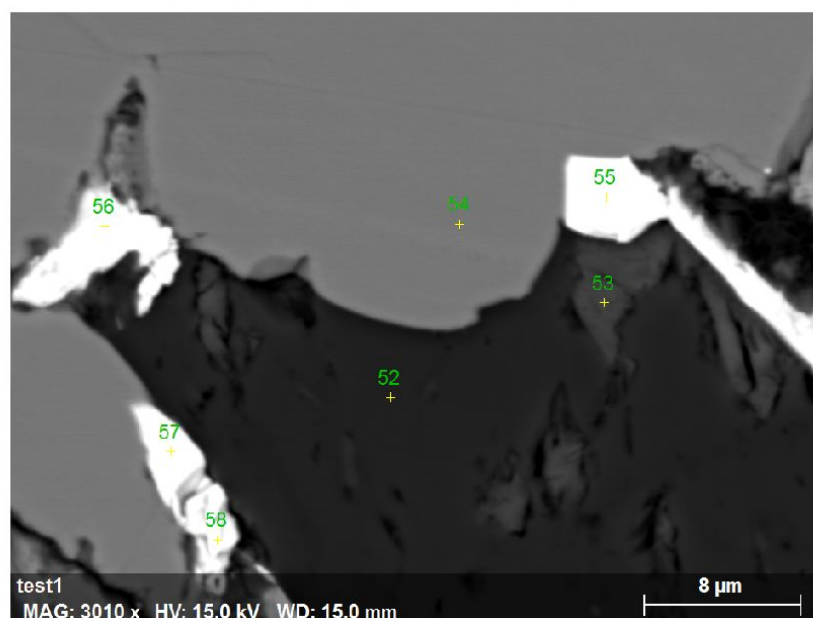


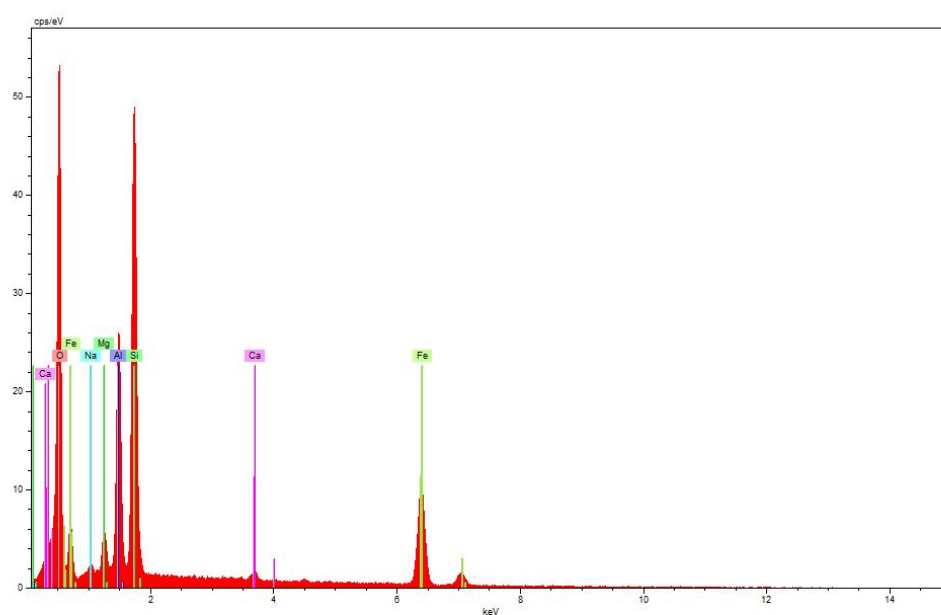
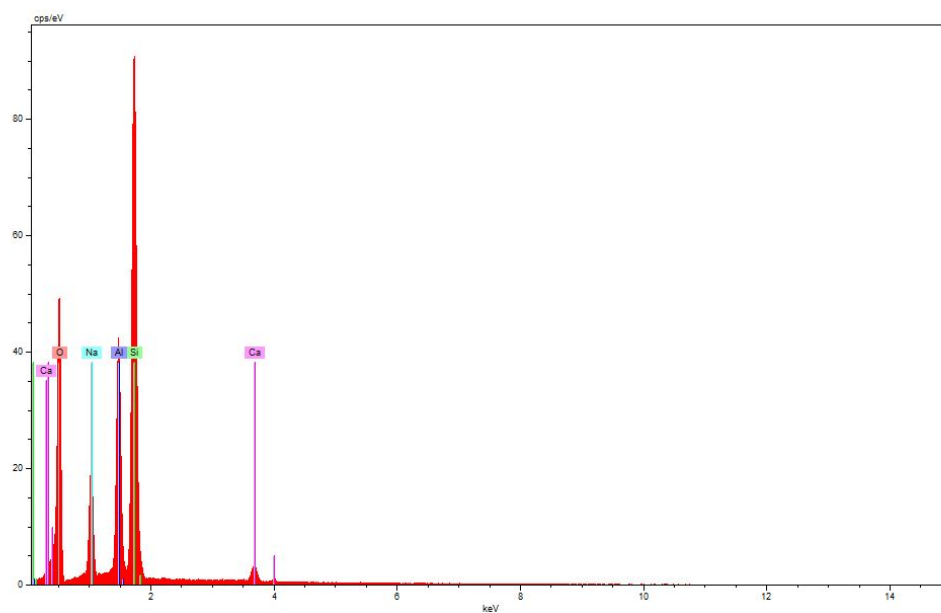


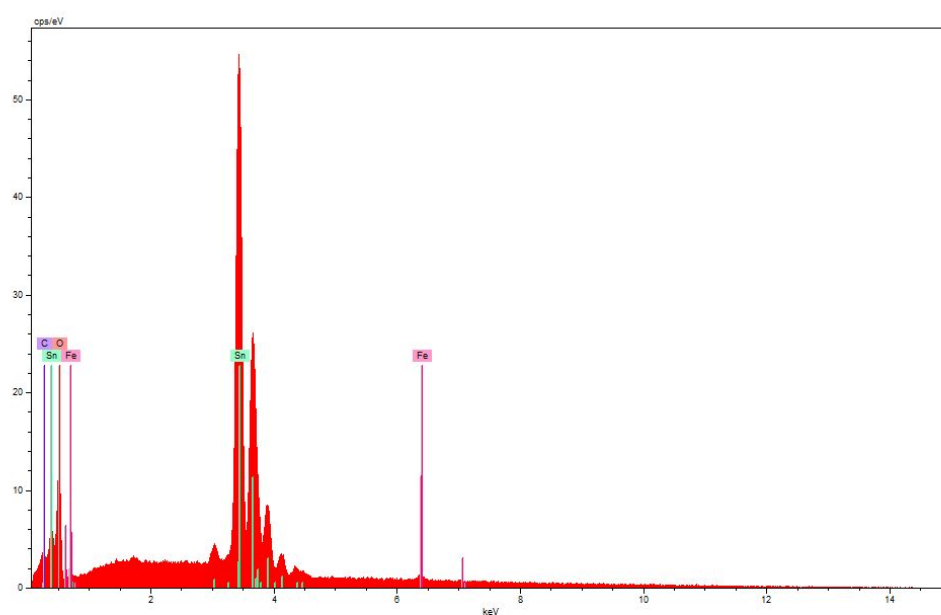
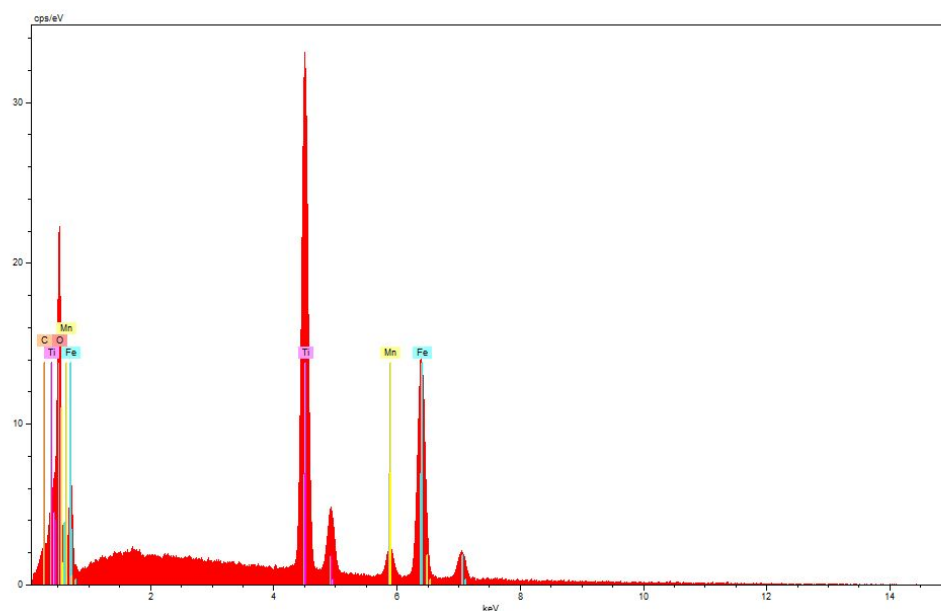


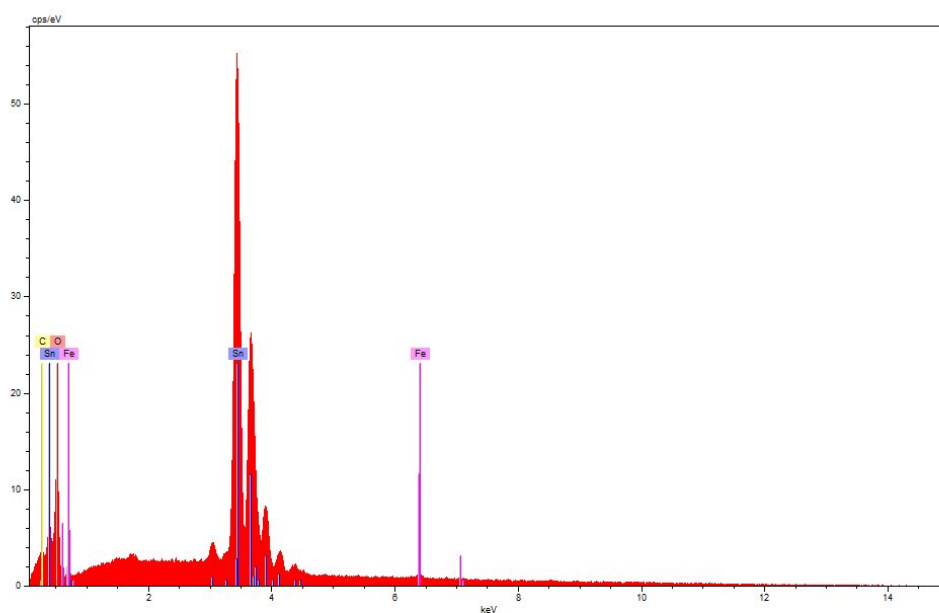
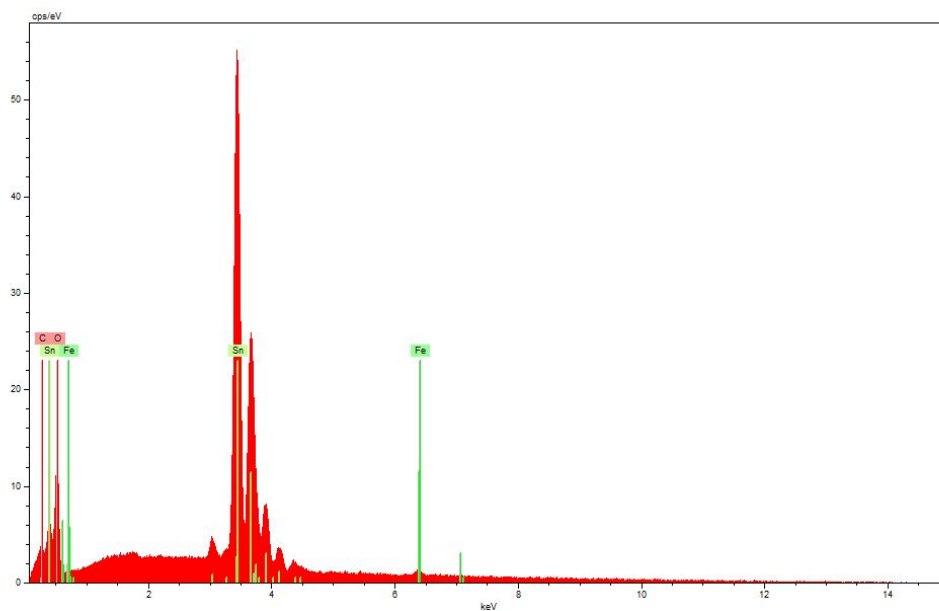


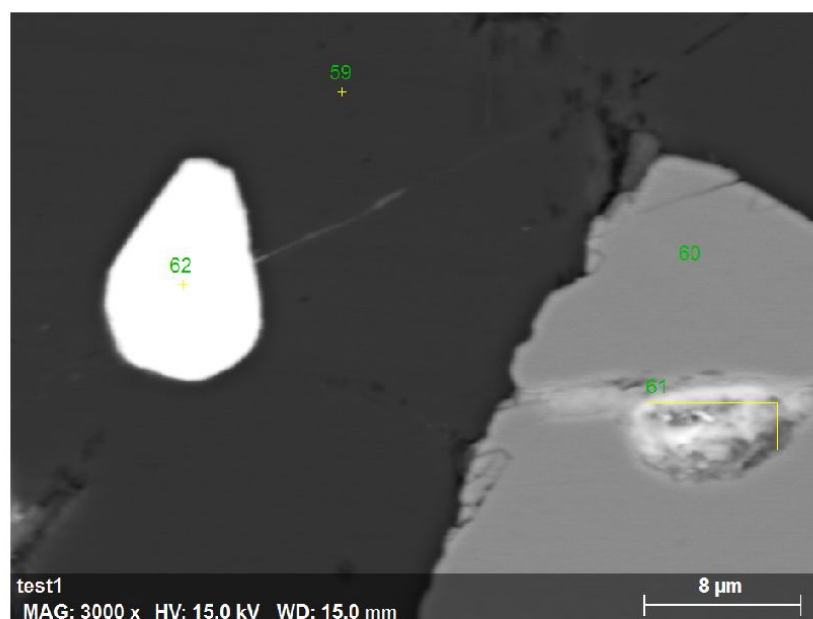
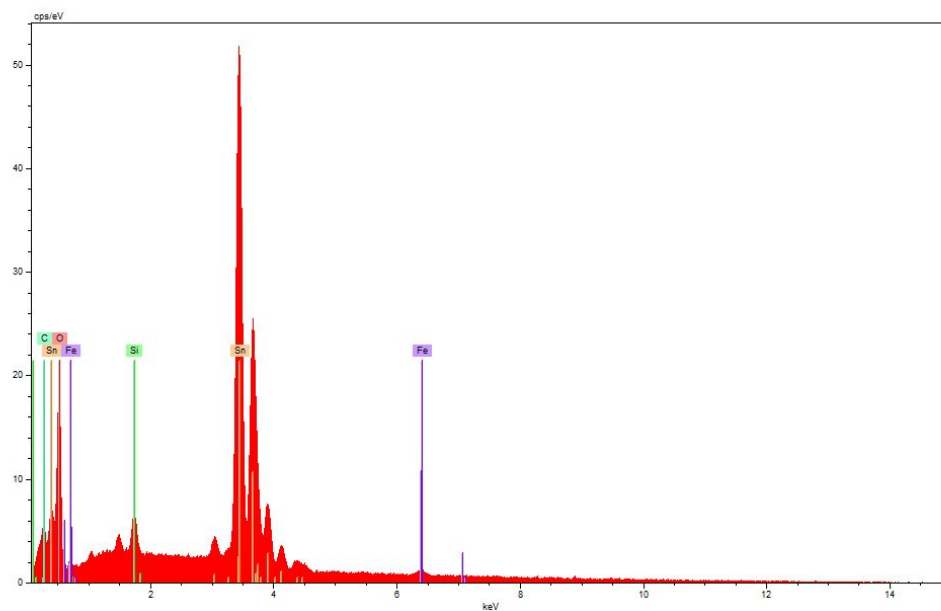


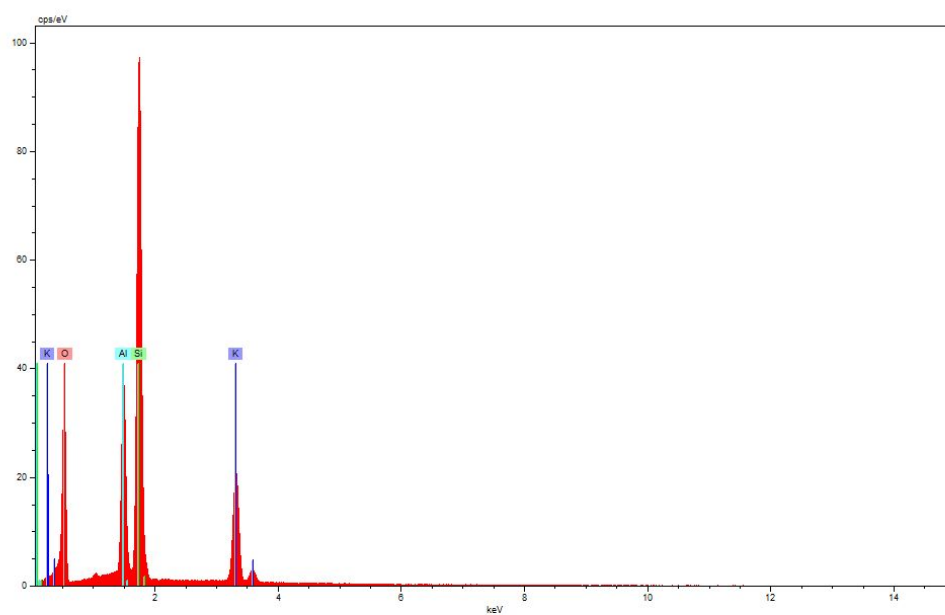
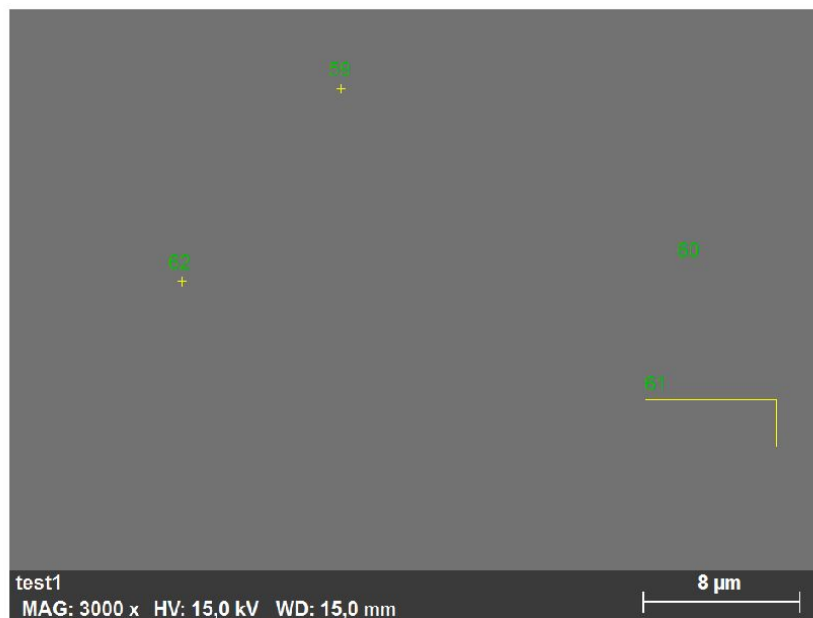


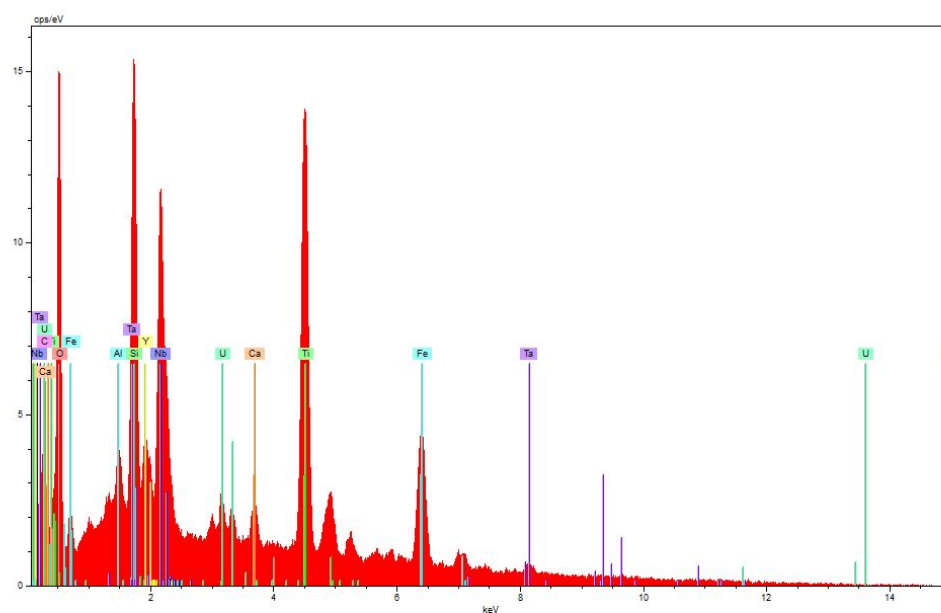
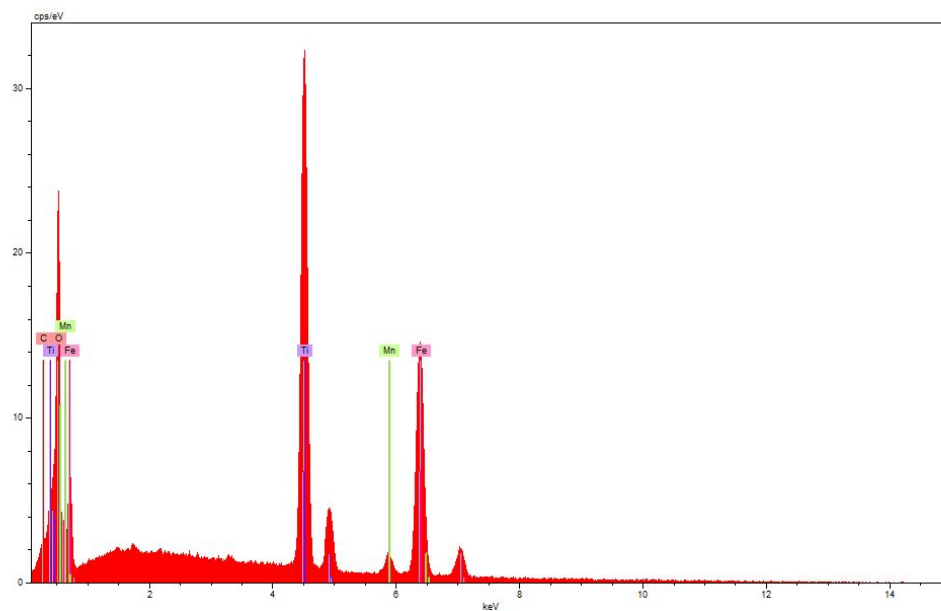


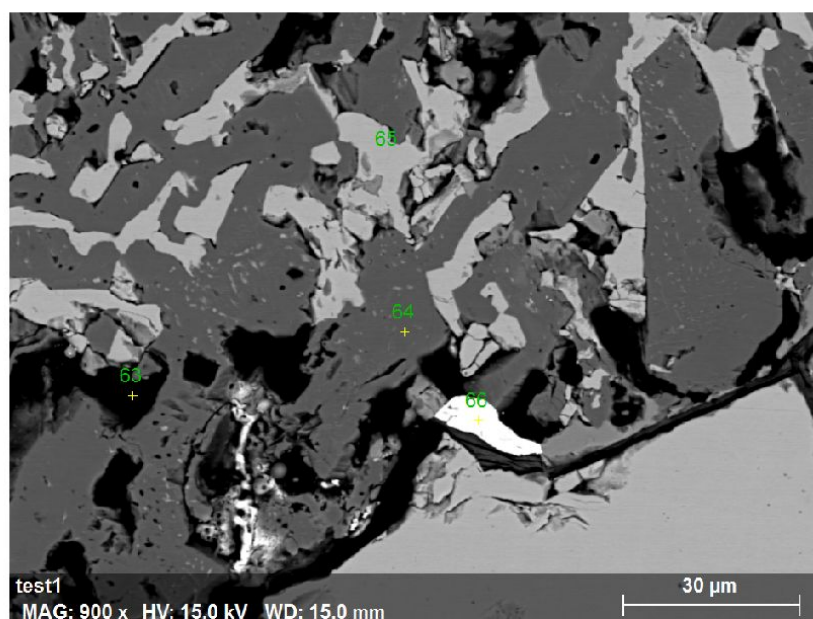
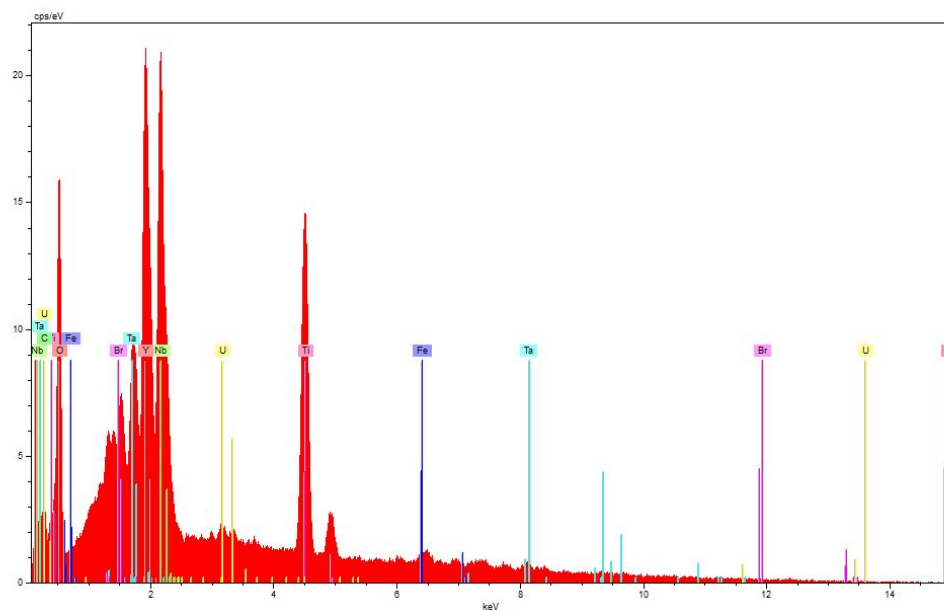


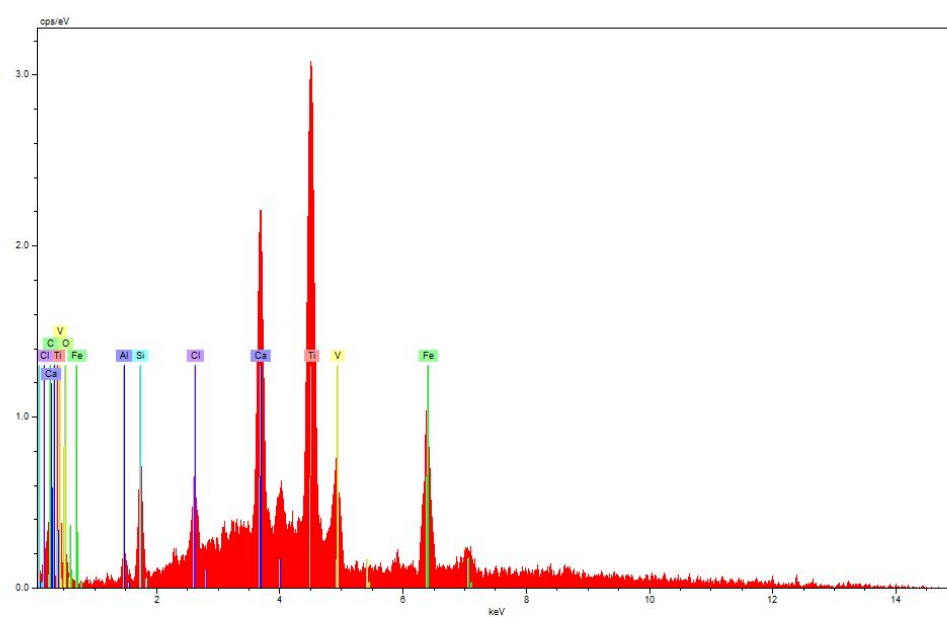
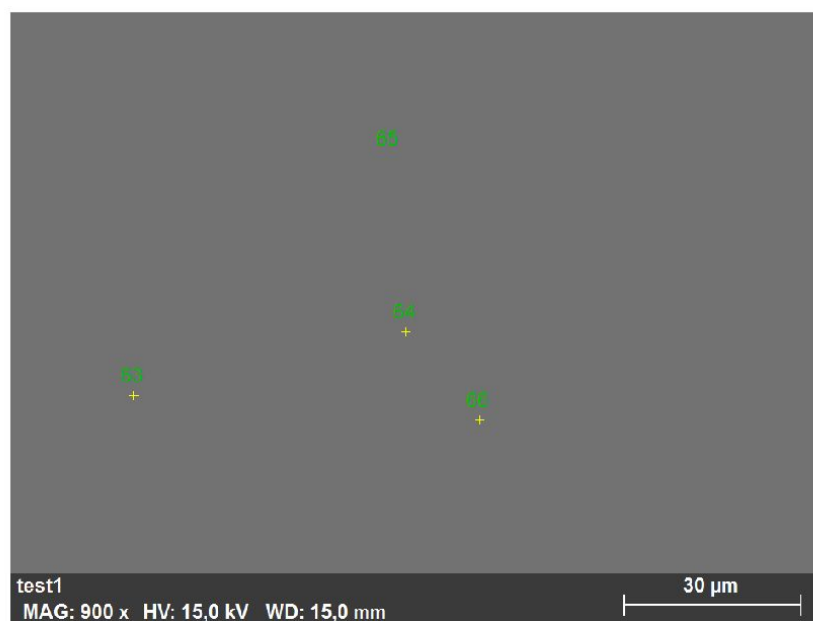


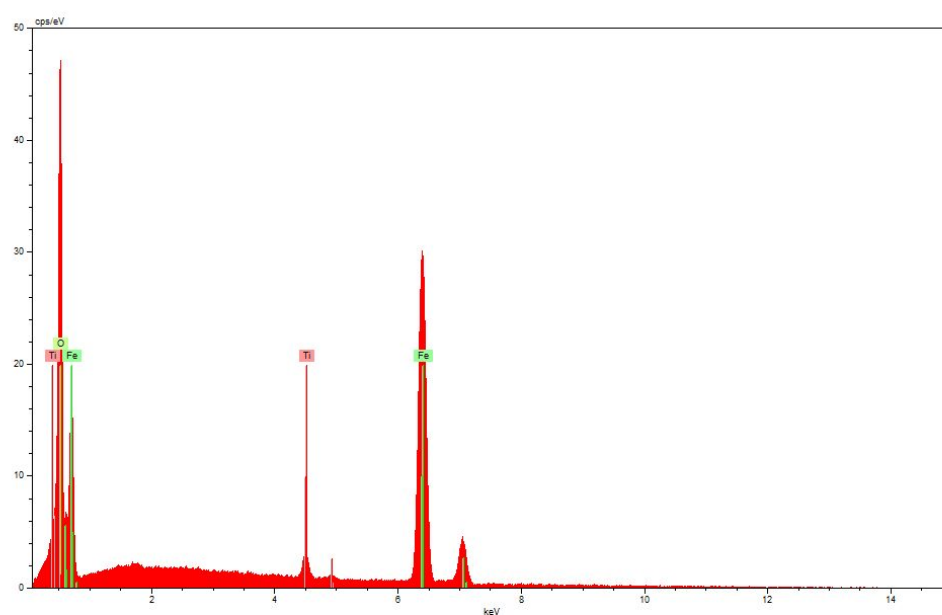
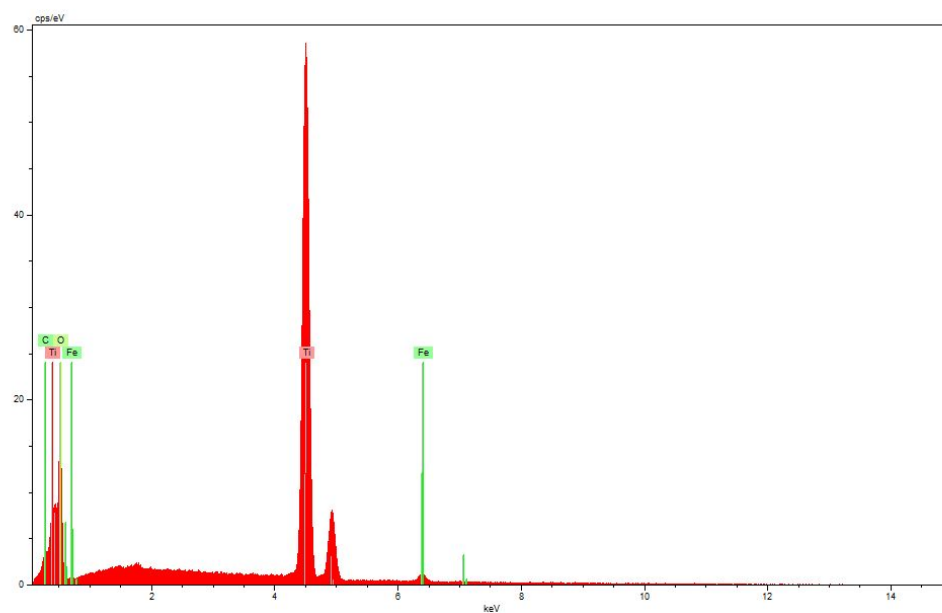


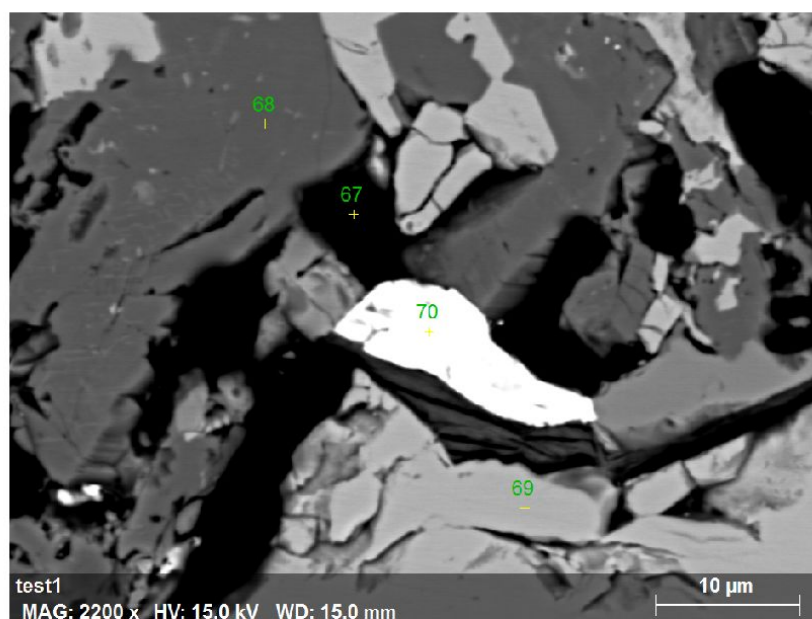
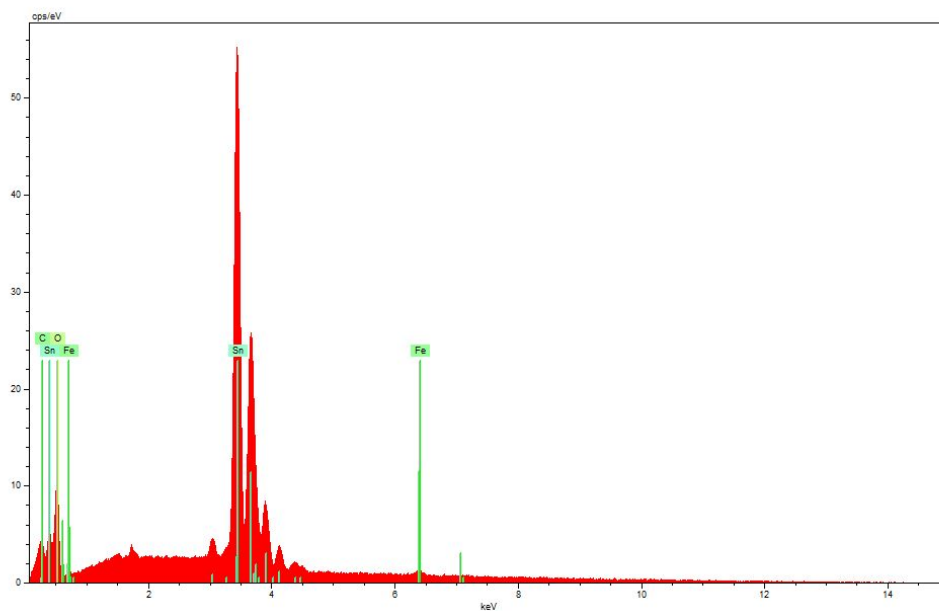


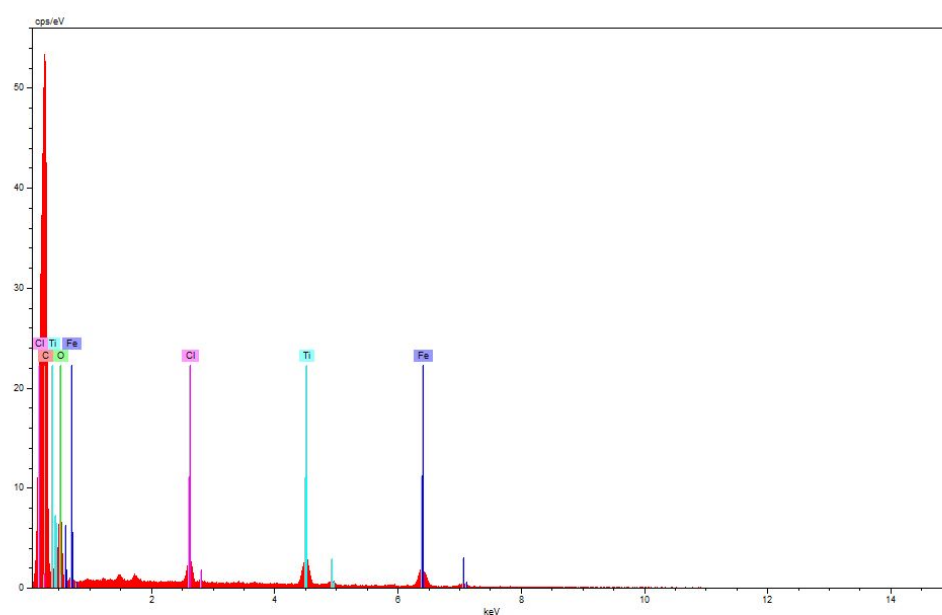
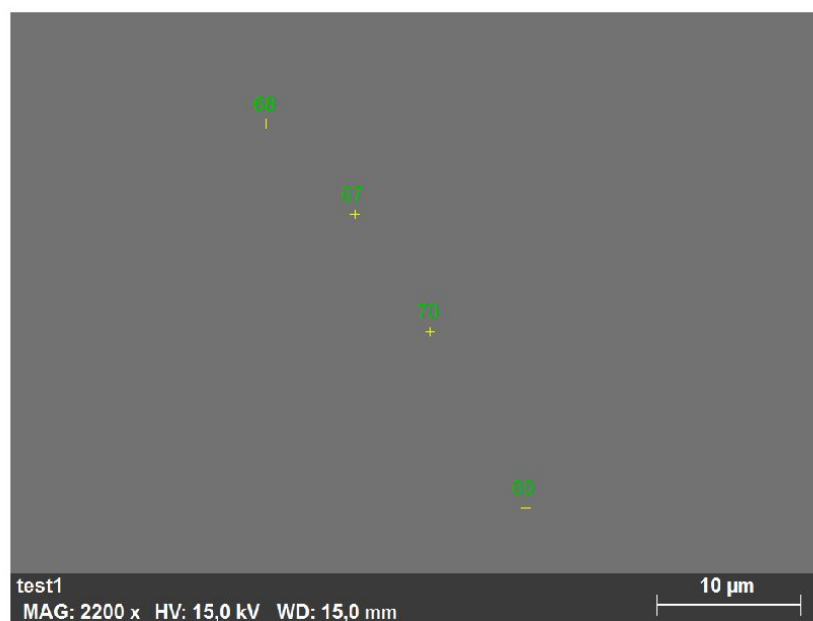


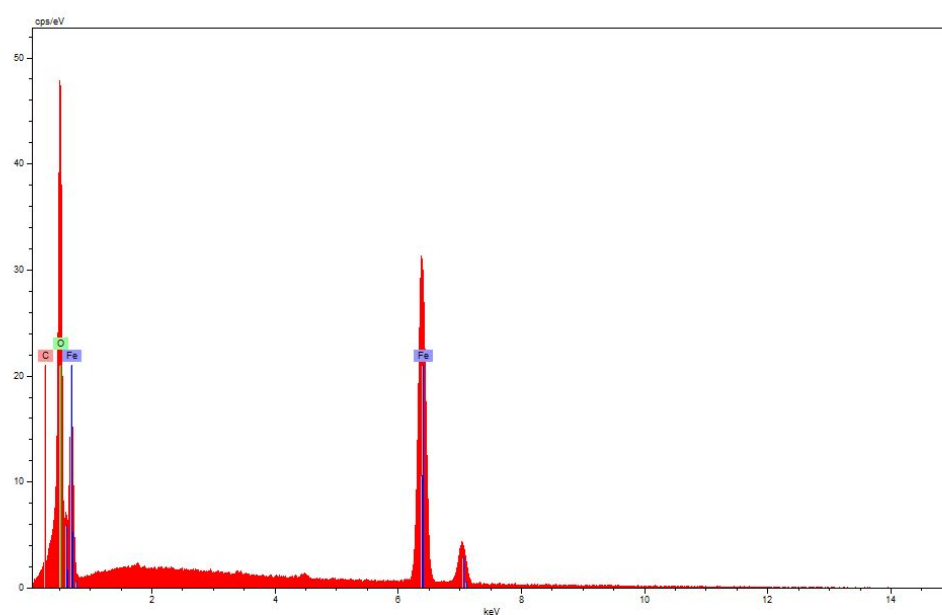
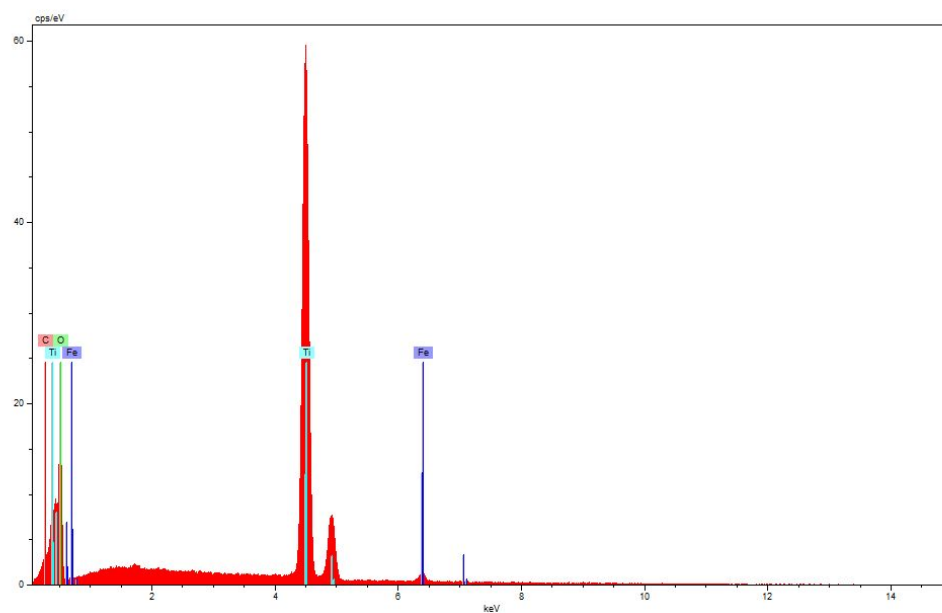


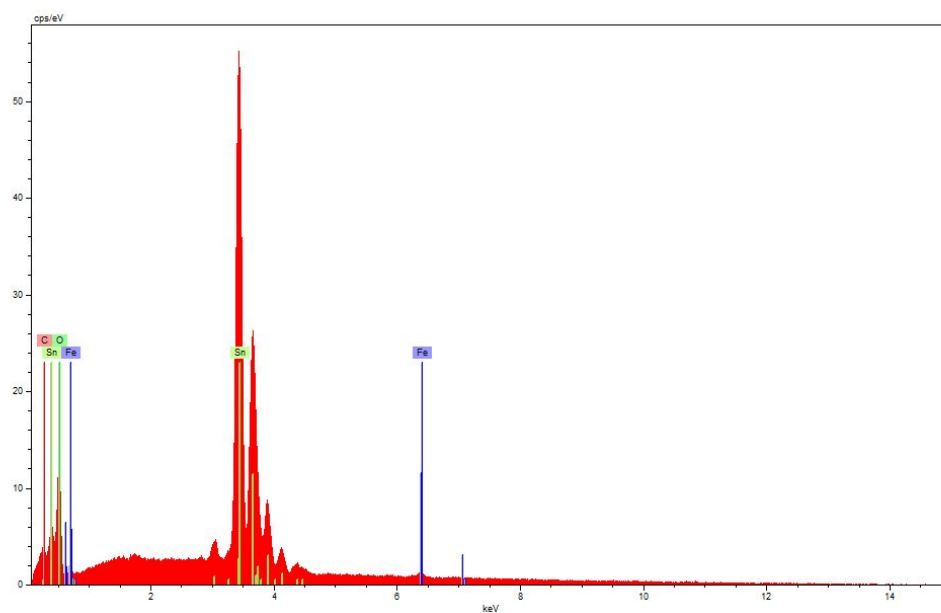




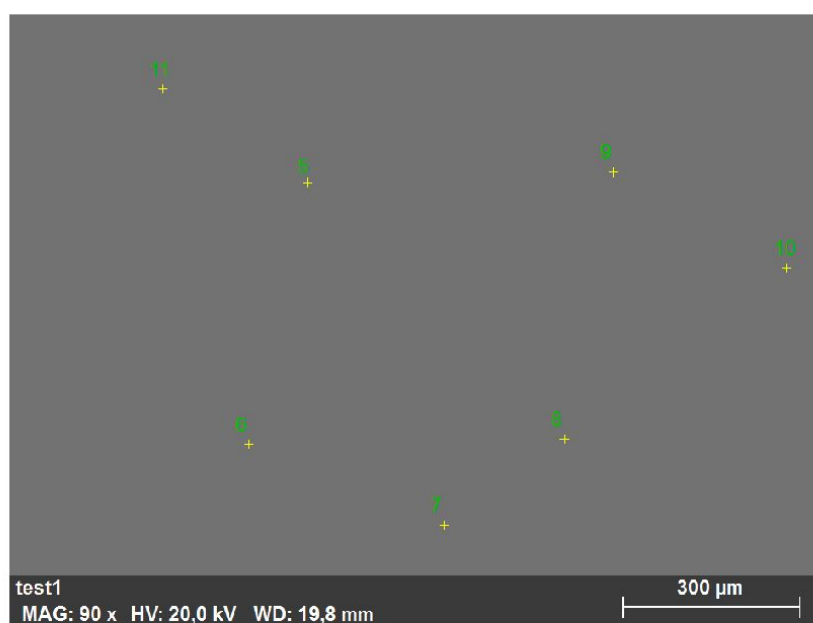
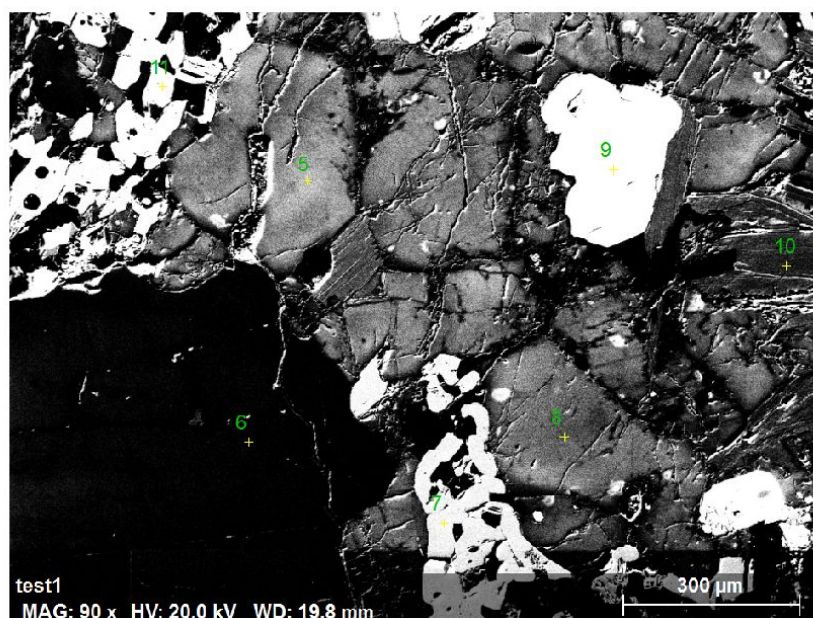








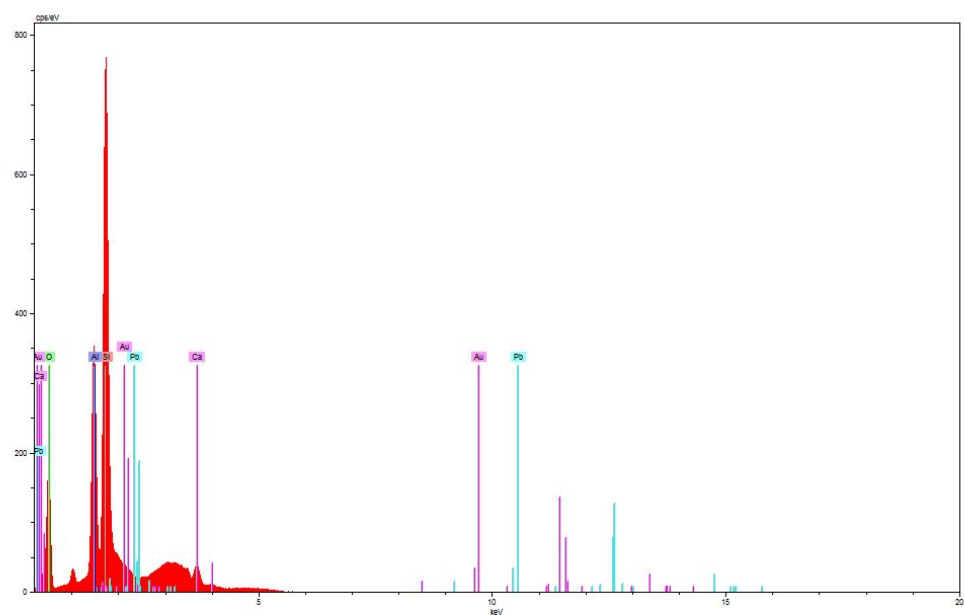
Application Note





Spectrum: 5

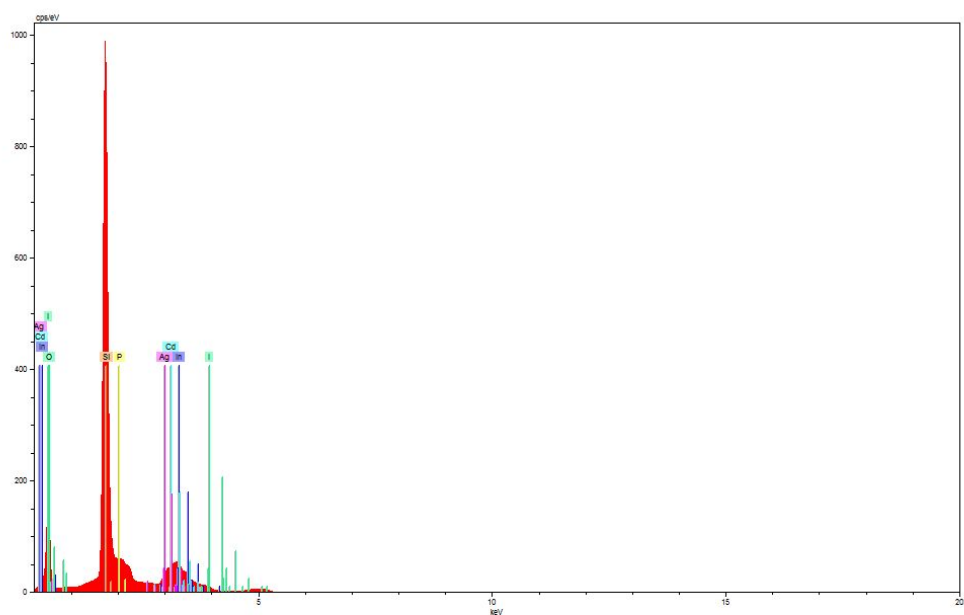
El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
Au	79	L-series	1683	98,77	40,18	6,29	3,98
O	8	K-series	144906	90,62	36,86	71,02	10,04
Si	14	K-series	821096	30,03	12,21	13,41	1,30
Al	13	K-series	344590	15,94	6,48	7,41	0,79
Pb	82	L-series	1787	5,54	2,25	0,34	0,08
Ca	20	K-series	53286	4,92	2,00	1,54	0,17
Total:			245,81	100,00	100,00		

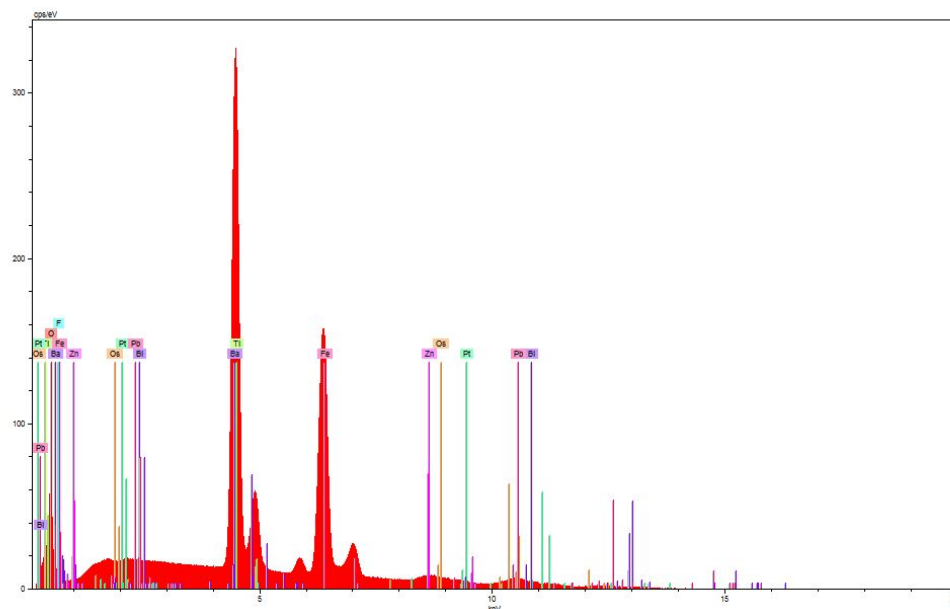




Spectrum: 6

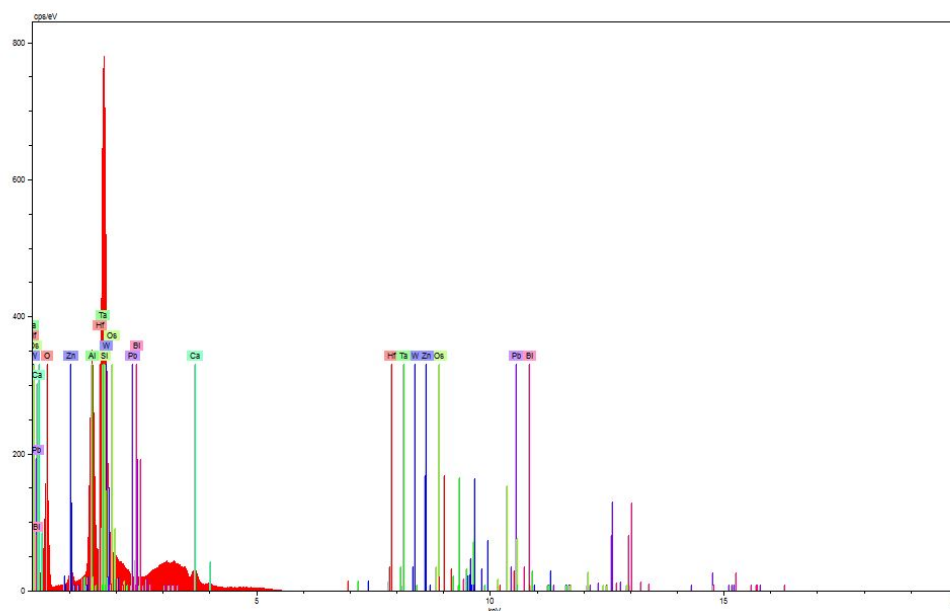
El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
Si	14	K-series	1073481	48,67	36,83	50,17	2,10
In	49	L-series	104682	22,38	16,93	5,64	0,70
Cd	48	L-series	88466	16,30	12,33	4,20	0,53
O	8	K-series	29560	15,59	11,80	28,21	1,95
I	53	L-series	23090	12,99	9,83	2,96	0,40
Ag	47	L-series	58847	9,52	7,20	2,55	0,32
P	15	K-series	87591	6,71	5,07	6,27	0,29
Total:			132,14	100,00	100,00		





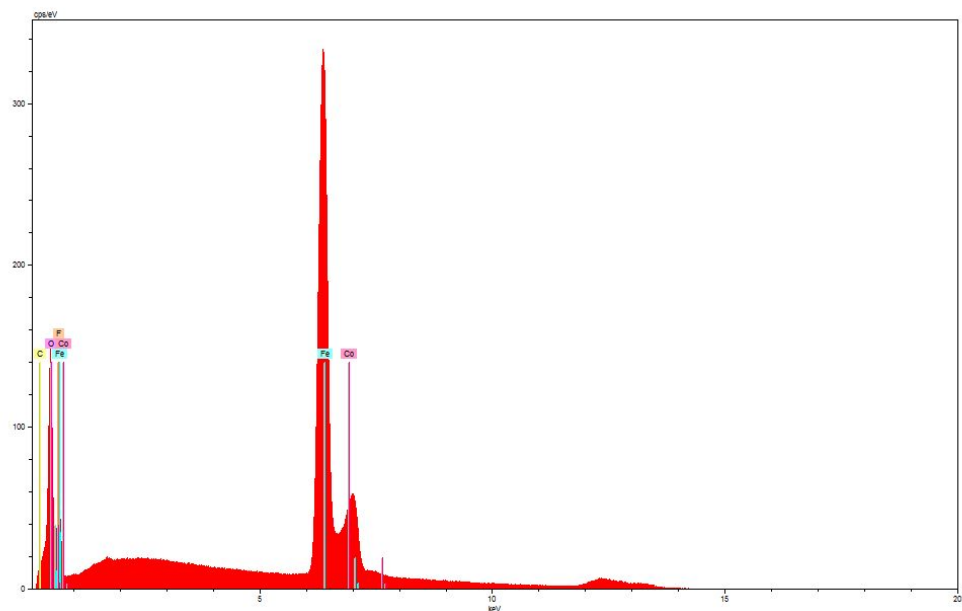
Spectrum: 7

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[at.%]		[wt.%]
Bi	83	L-series	17491	118,82	27,56	10,51	3,79
Pb	82	L-series	17937	83,66	19,41	7,46	2,63
Fe	26	K-series	325065	55,81	12,95	18,47	1,50
Ba	56	L-series	332327	39,54	9,17	5,32	1,11
Ti	22	K-series	375112	33,72	7,82	13,01	0,96
O	8	K-series	43200	29,70	6,89	34,30	3,57
Os	76	L-series	28236	29,61	6,87	2,88	0,87
Pt	78	L-series	18162	28,45	6,60	2,69	0,86
Zn	30	K-series	17008	8,84	2,05	2,50	0,28
F	9	K-series	5932	2,94	0,68	2,86	0,47
Total:			431,09	100,00	100,00		



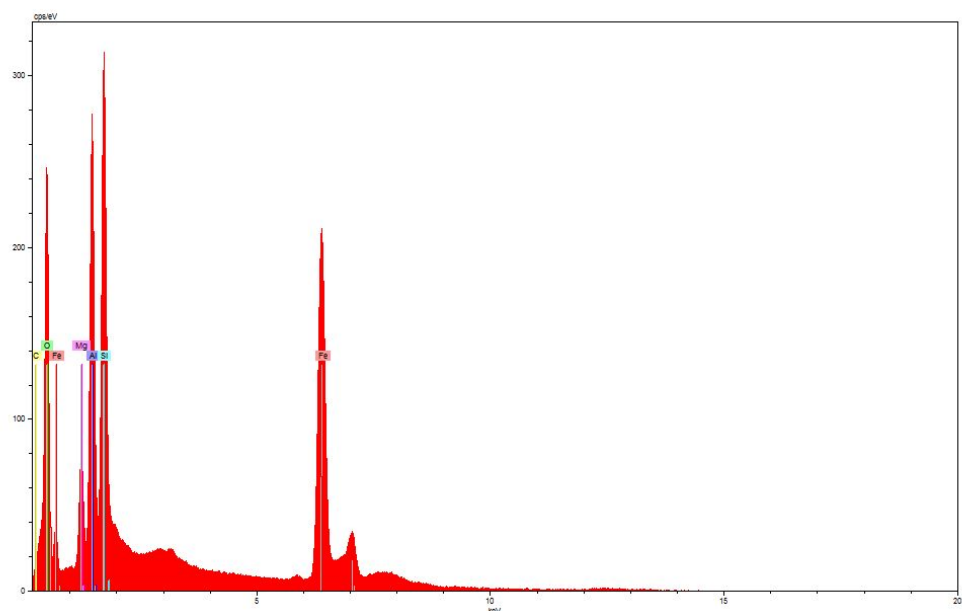
Spectrum: 8

El	AN	Series	Net unkn.	C norm.	C Atom.	C Error (1 Sigma)
			[wt.%]	[wt.%]	[at.%]	[wt.%]
O	8	K-series	146844	32,09	39,15	56,10
Si	14	K-series	575145	24,51	29,91	24,41
Al	13	K-series	351499	15,55	18,98	16,12
Ca	20	K-series	46819	3,25	3,97	2,27
Os	76	L-series	1959	1,41	1,72	0,21
W	74	L-series	3672	1,40	1,71	0,21
Bi	83	L-series	590	1,10	1,34	0,15
Hf	72	L-series	2215	0,86	1,05	0,13
Ta	73	L-series	2626	0,70	0,85	0,11
Pb	82	L-series	555	0,62	0,75	0,08
Zn	30	K-series	1932	0,47	0,57	0,20
Total:			81,96	100,00	100,00	



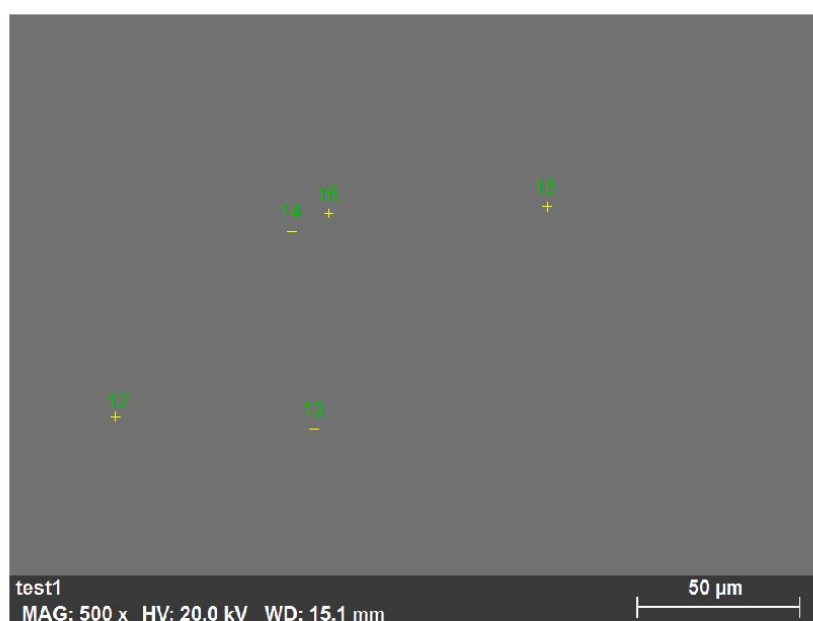
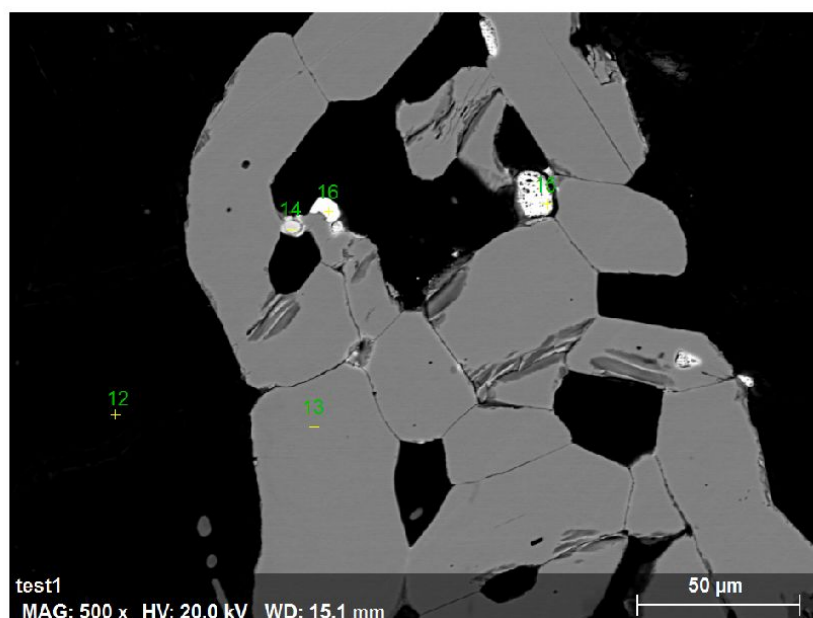
Spectrum: 9

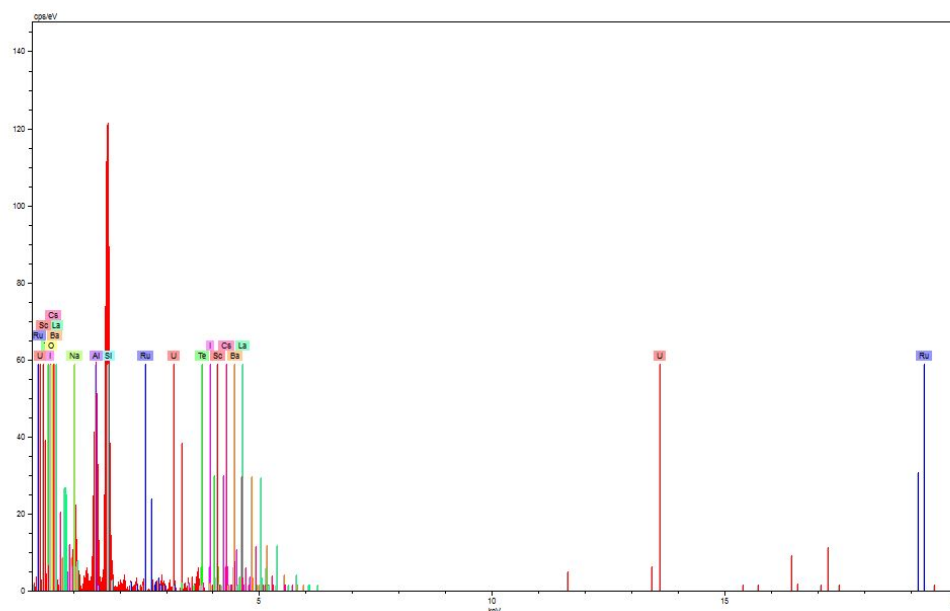
El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
Fe	26	K-series	691790	48,72	69,50	44,56	1,31
O	8	K-series	109965	10,32	14,73	32,96	1,18
Co	27	K-series	82217	6,41	9,14	5,55	0,20
C	6	K-series	9035	2,84	4,04	12,06	0,43
F	9	K-series	20554	1,81	2,58	4,87	0,26
Total:			70,10	100,00	100,00		



Spectrum: 10

El	AN	Series	Net unkn.	C norm.	C Atom.	C Error (1 Sigma)
			[wt.%]	[wt.%]	[at.%]	[wt.%]
Fe	26	K-series	156610	21,56	38,23	16,99
O	8	K-series	76040	15,93	28,25	43,82
Al	13	K-series	99292	6,51	11,54	10,62
Si	14	K-series	126161	6,42	11,38	10,06
C	6	K-series	5164	4,15	7,36	15,20
Mg	12	K-series	21859	1,83	3,24	3,31
Total:			56,39	100,00	100,00	

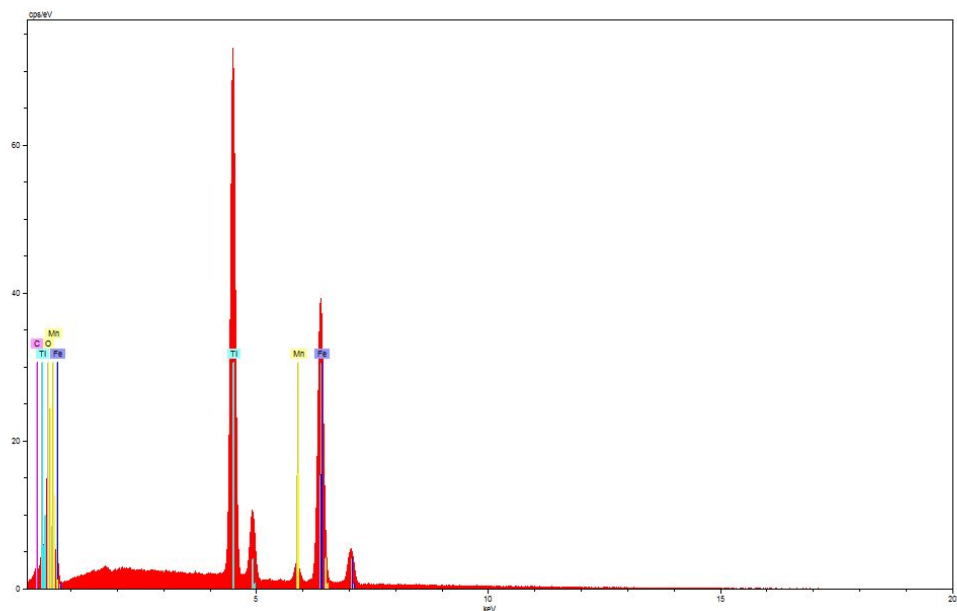




Spectrum: 12

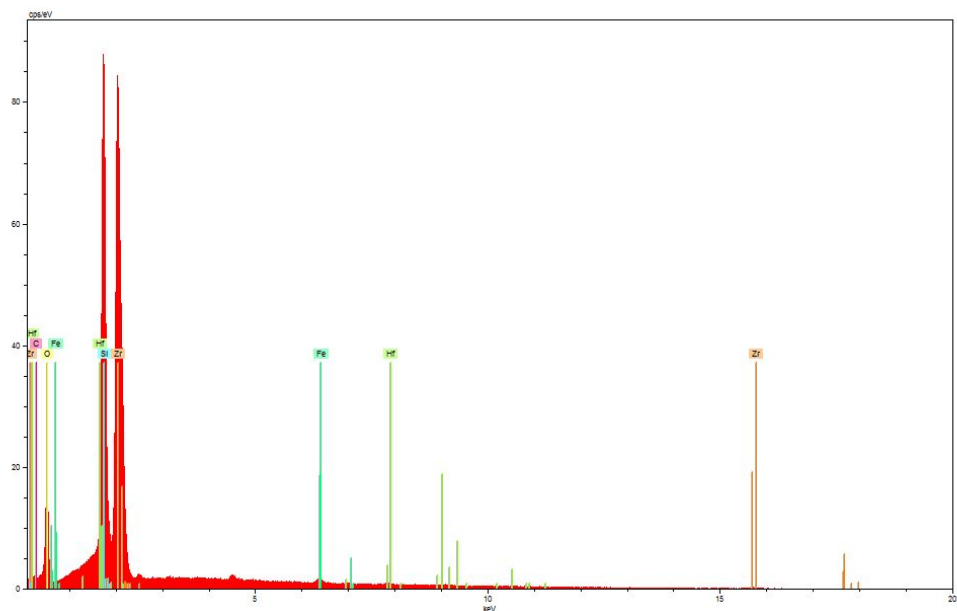
El	AN	Series	Net unnn.	C norm.	C Atom.	C Error (1 Sigma)
			[wt.%]	[wt.%]	[at.%]	[wt.%]
U	92	M-series	275	21,01	21,01	5,08
Te	52	L-series	219	12,41	12,41	5,60
Ru	44	L-series	285	10,76	10,76	6,13
Si	14	K-series	445	10,70	10,70	21,92
I	53	L-series	176	10,09	10,09	4,58
O	8	K-series	82	8,93	8,93	32,12
Ba	56	L-series	160	7,76	7,76	3,25
La	57	L-series	150	5,49	5,49	2,27
Al	13	K-series	168	4,77	4,77	10,18
Cs	55	L-series	74	4,74	4,74	2,05
Na	11	K-series	40	2,08	2,08	5,21
Sc	21	K-series	49	1,26	1,26	1,62

Total: 100,00 100,00 100,00



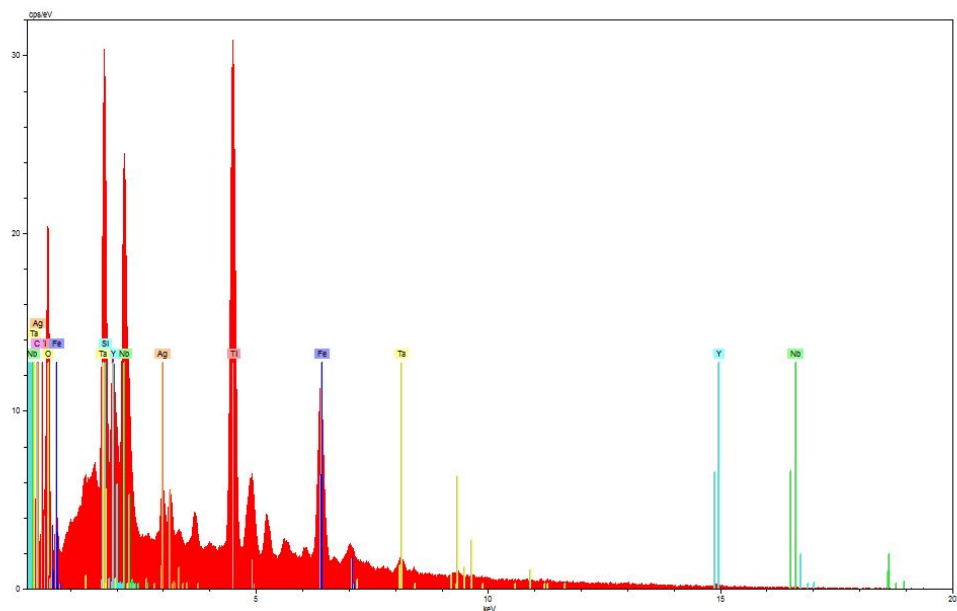
Spectrum: 13

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[at.%]		[wt.%]
Fe	26	K-series	61077	35,57	38,82	22,20	0,98
Ti	22	K-series	95806	29,87	32,60	21,75	0,86
O	8	K-series	11403	21,61	23,59	47,09	3,00
C	6	K-series	1363	2,67	2,92	7,75	0,58
Mn	25	K-series	3941	1,90	2,07	1,20	0,09
Total:			91,63	100,00	100,00		



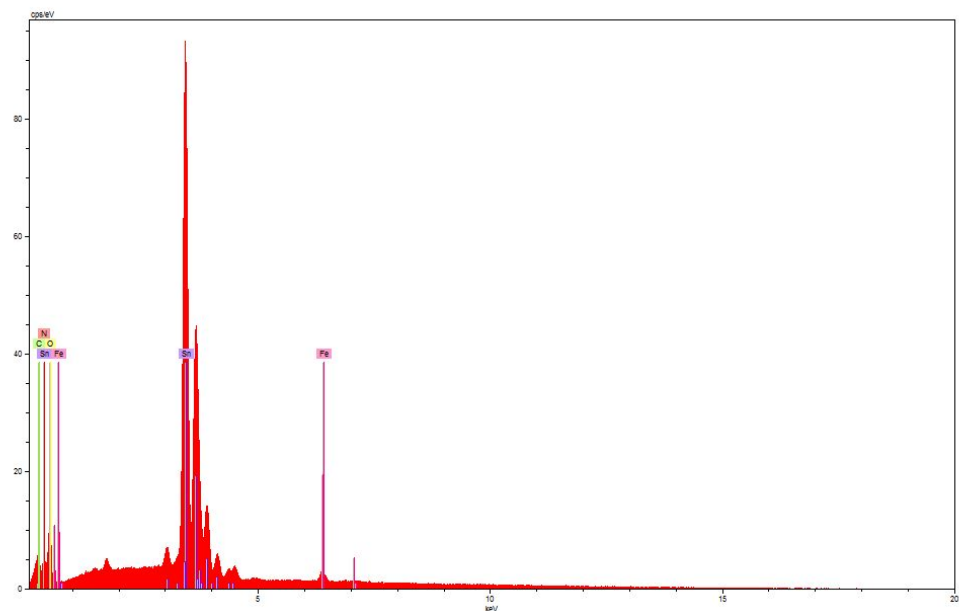
Spectrum: 14

El	AN	Series	Net unkn.	C norm.	C Atom.	C Error (1 Sigma)
			[wt.%]	[wt.%]	[at.%]	[wt.%]
Zr	40	L-series	111502	43,32	53,05	18,67
O	8	K-series	10793	18,74	22,95	46,05
Si	14	K-series	72553	12,28	15,04	17,20
C	6	K-series	1347	5,25	6,43	17,20
Hf	72	L-series	866	1,17	1,44	0,26
Fe	26	K-series	1422	0,89	1,08	0,62
Total:			81,65	100,00	100,00	



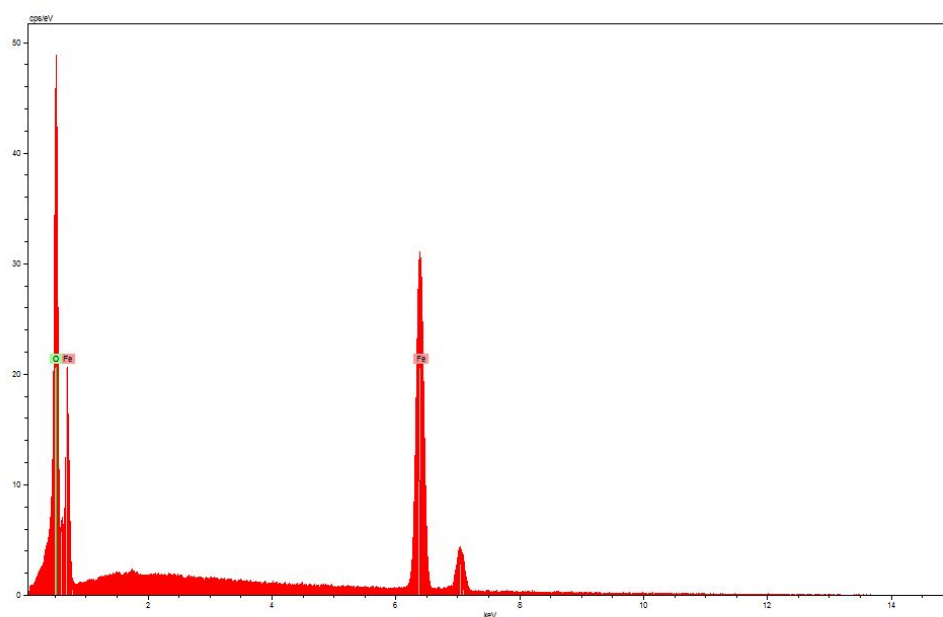
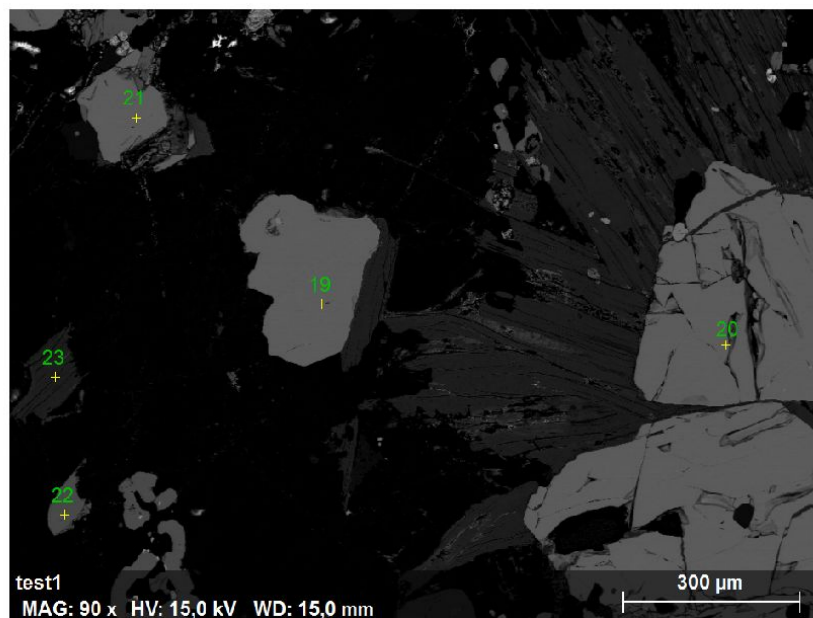
Spectrum: 15

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
				[wt.%]	[wt.%]	[at.%]	[wt.%]
O	8	K-series	11905	12,51	31,27	53,79	1,73
Ti	22	K-series	37610	7,93	19,83	11,40	0,25
Fe	26	K-series	15699	5,30	13,24	6,52	0,17
Nb	41	L-series	25989	5,13	12,83	3,80	0,22
C	6	K-series	1981	3,06	7,65	17,53	0,61
Y	39	L-series	9342	1,96	4,91	1,52	0,11
Ta	73	L-series	2107	1,88	4,69	0,71	0,09
Si	14	K-series	18307	1,82	4,55	4,46	0,10
Ag	47	L-series	2060	0,41	1,03	0,26	0,04
Total:			40,00	100,00	100,00		



Spectrum: 16

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
Sn	50	L-series	175760	65,99	75,93	29,36	1,97
O	8	K-series	6272	13,22	15,21	43,64	2,01
C	6	K-series	2459	4,48	5,15	19,70	0,83
Fe	26	K-series	2725	1,72	1,98	1,63	0,08
N	7	K-series	662	1,50	1,73	5,67	0,41
Total:			86,91	100,00	100,00		





Spectrum: 19

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
Fe	26	K-series	48283	76,06	77,51	49,68	2,28
O	8	K-series	27233	22,07	22,49	50,32	2,77
Total:			98,13	100,00	100,00		



Spectrum: 21

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
Fe	26	K-series	48176	72,51	74,12	44,18	2,18
O	8	K-series	27810	22,51	23,01	47,88	2,82
C	6	K-series	1206	2,80	2,86	7,94	0,63
Total:			97,82	100,00	100,00		



Spectrum: 22

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
Fe	26	K-series	21973	33,98	35,74	20,10	1,05
Ti	22	K-series	41632	32,90	34,60	22,70	0,99
O	8	K-series	12050	24,15	25,40	49,86	3,32
C	6	K-series	1129	2,28	2,40	6,27	0,52
Mn	25	K-series	1497	1,78	1,87	1,07	0,10
Total:			95,10	100,00	100,00		



Spectrum: 23

El	AN	Series	Net	unn. C	norm. C	Atom. C	Error (1 Sigma)
			[wt.%]	[wt.%]	[wt.%]	[at.%]	[wt.%]
O	8	K-series	34728	33,05	37,54	59,30	4,04
Fe	26	K-series	17612	32,26	36,64	16,58	1,01
Si	14	K-series	25933	10,58	12,02	10,81	0,47
Al	13	K-series	22425	9,01	10,23	9,58	0,45
Mg	12	K-series	7018	3,15	3,58	3,72	0,20
Total:				88,05	100,00	100,00	

