Warning: Point-survey spectra times vary. Most were between 5 and 10 minutes (live-time).

Concentration of Element (at%)	C	O	Nb	N	F	Na	Ta	Ni	Si
Plate B1									
B1-off pedestal	37	43	13	5	2.4				
B1-P3 control area	69	25	3.3	2.8	0.8				
B1-P3 SB#58									
• Center crater (previously a C particle): no F, some Na	58	25	11	3.5		2.8			
• 20 um from center (still inside starburst): no F, no Na	51	32	12	5					
• Between the (faintly visible) fringes of the starburst: found F	62	29	5	2.8	0.9				
• Note that the Nb content in both points inside the starburst is 11%, which is greater than the B1-P3 control areas (outside starbursts), but about the same as the off-pedestal control									
• A linescan was attempted for F, but it was soon clear that to detect such low levels would require more time than I wanted to spend on this. Similarly, a 2D map of F was too slow to continue.									
B1-P3 SB#4									
• Crater center (prev. Fe on top of C): no Fe, no F, no Na, high C?	71	21	5	2.3					
• 20 um from center (inside starburst): no F, some Na	64	27	4	2.3		2.7			
• Unfortunately the SEM resolution wasn't good enough to probe the satellite craters (Mickey-Mouse ears) around the larger central crater.									
B1-P3 SB#25									
• Largest crater in central splatter (previously C): no F	61	26	10	3.2					
• Smallest crater in central splatter: similar to largest crater	65	20	11	4					
• 5 um from splatter (outside splatter, inside burst): similar to craters	58	27	11	5					
• In particular, no Ta was found									
B1-P2 SB#1									
• Center smudge (previously C): no F, some Na	65	25	5	2.1		2.7			
• 10 um from center (just outside fringe): only 2 min scan, clear F	√	√	√	√	√				
• 50 um from center in the large darkened area of P2: some F, no Na	58	29	8	3.8	1.3				

Concentration of Element (at%)	C	O	Nb	N	F	Na	Ta	Ni	Si
• A half-hour (live-time) 2D map of F revealed a Fluorine depletion in the region of the starburst, clearly showing streamers and some fringe detail									
Plate B2									
B2-off pedestal P3 (N.B. This plate has been baked at 100C): low C	40	41	12	5	1.7				
B2-P3 SB#13									
• Center smudge (previously Si): no F, some Na—probably Si is present (in small amounts, the Si peak is very near the first peak of a the Nb doublet; almost always the first of this doublet is smaller than the second, but in this spectrum it's larger, probably indicating the presence of Si)—perhaps Ta is also weakly present.	50	36	8	3.5		2.8	?		
• 10 um below (EE—in Evans East orientation) center: no F, no Na, some Ta, maybe very weak Si, but it could just be Nb and Ta making a mess	46	41	7	3.3			3.3		?
• 10 um right (EE) of center: no F, no Na, some Ta	48	39	7	4			2.0		
• just outside starburst fringe: some F, no Na, weak Ta, high C?	67	27	3.5	3.3	1.0				
B2-P4 SB#8,9									
• SB#8 center smudge (previously Ni): Ni, Ta, no F, no Na,	61	23	3.0	2.9			5	6	
• between SB#8 and #9 (hard to tell whether it's inside or outside fringe): hint of F?, no Na, some Ta, less Ni	66	22	3.4	3.8	?		4	1.0	
• A quick 2D Ni map shows centers of Ni deposit at centers of SB#8 and SB#9									
• A (EE horizontal) Ni linescan through SB#8 center reveals a high peak 8um wide at center, and a lower peak 10um wide at closest point to SB#9 center									
• A (EE horizontal) Ni linescan through SB#9 center reveals an asymmetric double peak 13 um wide through center									
B2-P4 SB#18 (inverse starburst; though with the AES probe SEM, it looks that same as the other starbursts)									
• Off center (inside starburst): lots of Ta, no N, no F	50	34	6				11		

Concentration of Element (at%)	C	O	Nb	N	F	Na	Ta	Ni	Si
• Just above (EE) fringe: F, also Ta (only 1 minute scan)	√	√	√	?	√		√		?
• Central crater/melting (prev. Si, some Al): Si (probably; it could be Ta and Nb ganging up), Ta, strong Na	47	26	2.7	1.8		9	5		9?
• However (re: above "probably") a 2D Si map clearly shows more Si at center crater									
• A 2D map of Nb reveals a higher concentration inside starburst than outside (fringes are visible)									
• A 2D map of Ta shows depletion at center (where Si is) as well as below and to the right of (EE) center; it is clearly stronger to the north-west (EE).									
B2-P5 F1 (funny feature where sparked while at 100C)									
• Edge: usual stuff, including some F	67	26	4	2.5	0.8				
• Middle: no F	62	26	8	3.6					
<u>Plate B4</u>									
Plate B4 (N.B. This plate has been baked)									
B4-off pedestal 5, control 1: strong Na, F, low C	30	50	6	1.3	5	7.3			
B4-off pedestal 5, control 2: still strong Na, also Nb	35	40	14	2.7	2.7	5.3			
B4-P4-particle 6 (has halo): too hard to find									
B4-P4-particle 7 (has halo) (post test EDX: Si, Al, O)									
• Center: Si, **Al (6%)**, little N, F, low C (N.B. beam or sample drifted during survey, probably ~0.25 um)	22	28	6	1.4	0.4	3.3			32
• 1 um left (EE) of center (in halo): almost the same as center (**2.7% Al**)	25	18	6	2.8		6			41
• 2 um left (EE) of center (in halo): more N, no Na, less Si, no F, **no Al**	48	17	5	5					25
• 5 um left (EE) of center (not in halo): like controls, but no F, **no Al**	50	30	15	5					
• A quick 2D F map reveals F depletion in a ~10 um radius about center of particle 7									
B4-P4-UL-SB1 (heavily cratered/splattered starburst)									
• Center of largest crater: no F, high Nb	51	29	17	3.0					

Concentration of Element (at%)	C	O	Nb	N	F	Na	Ta	Ni	Si
• Off crater but still in splatter: some Ta, high Nb	49	29	16	2.7			4		
B4-P3-SB1									
• Center crater: no F, typical	58	22	16	4					
• Inside fringe: typical (high Nb?)	44	32	20	4					
• Inside fringe after 90A (SiO_2 equivalent) sputter: less C and O	11	11	71	8					
• Outside fringe: typical except Na here	31	25	5	2.7	1.5	3.7			
• Outside fringe after 90A (SiO_2 equivalent) sputter: similar to inside	16	10	68	6					

Summary of Controls:

Concentration of Element (at%)	C	O	Nb	N	F	Na	Ta	Ni	Si
B1-off pedestal	37	43	13	5	2.4				
B1-P3 control area	69	25	3.3	2.8	0.8				
B1-P3 between fringes of SB#58	62	29	5	2.8	0.9				
B1-P2 in a dark region (not a SB)	58	29	8	4	1.3				
B2-off pedestal (N.B. baked plate)	40	41	12	5	1.7				
B2-P3 outside SB#13	66	37	3.5	3.3	1.0				
B4-off pedestal 5, 1st (baked plate)	30	50	6	1.3	5	7.3			
B4-off pedestal 5, 2nd (baked plate)	35	40	14	2.7	2.7	5.3			