

Run 1			
Static Data		Start Time (peltier on):	
Size of cold stage:	51 mm	End Time (peltier off):	
Height of cold stage:	8 mm		
vacuum pressure (set)	50 Pa		
Z/TILT (distance of detector from stage)	5um		
vacuum current	12kv		
probe current		85	
Additional Comments	waited untill the pressure was 60Pa to trun on Peltier		
Additional Comments			
Kinetic Data			
Time	Action/observation	Temperature (actual)	Crystal Size
2:46	set temp to -34	25	none
2:54	took 3D image (case 1.0)	-34.8	
2:56	set temp to -33		
2:58	took 3D image of new crysatl (2.0)	-33.7	
3:00	set temp to -31 to ablate		
3:01	took 3D image of crystal ablating (2.1)	-31.8	
3:03	took 3D image of line on middle of crystal that formed while zoomed in (2.2)	-31.8	
3:05	took 3D image of whole crystal (2.3)	-31.8	
3:07	set temp to -33 to re-grow		
3:08	3D image of pockmarks that were present at the end of ablation (2.4)	-33.7	
3:12	took 3D image of new crysatl (3.0)	-33.7	
3:14	took 3D image of new crystal and adjusted contrast slightly (3.1)	-33.7	
3:14	set temp to -30 to ablate		
3:16	set temp to -32 to stop and take images	-30.8	
3:17	took 3D image (3.2)	-32.6	
3:19	took 3D image of edge (3.3)	-32.7	
3:21	set temp to -30 to ablate		
3:22	took 3D image of edge (right) (3.4)	-30.8	
3:24	set temp to -32 to stop ablation		
2:25	taking 3D image of another crystal that had pockmarks	-32.7	
2:28	taking 3D image of crystal with line (3.5)	-32.7	
3:34	set temp to -31 to ablate		
3:35	ended experiment		
Run 2 (Elemental Analysis)			
Static Data			
Sample name:	CH16132		
Size stage:	15mm		
Height of cold stage:		-5	
vacuum pressure (set)	40 Pa		
Z/TILT (distance of detector from stage)	10mm		
vacuum current	17kV		
probe current		85	
Additional Comments	I was working on figuring out all of the settings so did not write as much down		
Additional Comments	I was able to create the individual element spectrums		
Kinetic Data			
Time	Action/observation		