

Time	File name	Sample	Region	Spectrometer					Beamline				y	Comments
				Start-End	Step	scans	Epass	tint	hv	U gap	Current	I sample		
	140228	FTO (washed)	O1s	526-542	0.1	1	200	0.176	2200	14.4	$1.2 \times 10^{-9}$		-549.25	
	140230		F1s	680-697										
			N1s	396-409										
			Cl1s	282-295										
			Sn3d	484-503										
18:34	140231	Gd <sub>2</sub> O <sub>3</sub> N <sub>2</sub>	overview	-5-89	0.1	1	70	0.126	250	25.85	$1.8 \times 10^{-9}$	290	-155.25	
			valence	-1-25		5								
			overview	-5-89		1								
	140232	PTO washed	overview	-5-89		1							-549.35	
			valence	-1-25		5								
			overview	-5-89		1								
	140233	PH <sub>2</sub> /N <sub>2</sub> O <sub>x</sub>	overview	-5-89		1							-550	
			valence	-1-25		5								
			overview	-5-89		1								
19:16	140234	As <sub>4</sub>	As Fermi	-5-10		3								As position
	140235	As	As Fermi	-5-10		3	50		120	18.13	$0.58 \times 10^{-9}$	300		
	140236	Gd <sub>2</sub> O <sub>3</sub> (N <sub>2</sub> )	valence	-1-39		1							-550.5	
	140237	FTO	valence	-1-39									-550	
	140238	PH <sub>2</sub> (N <sub>2</sub> O <sub>x</sub> )											-550.25	

13

09/08/18

Spectrometer							Beamline							
Time	File name	Sample	Region	Start-End	Step	scans	Epass	tint	h $\nu$	U gap	Current	I sample	Y	Comments
20:07	140239	N <sub>2</sub> O <sub>x</sub>	N <sub>2</sub> P	845-892	0.1	1	200	0.126	2200	14.4	4.21-10 <sup>-4</sup>		-549.5	
			Volatiles	-2-40		15								
			N <sub>2</sub> P	845-892		1								
21:42	140240	N <sub>2</sub> O <sub>x</sub>	O <sub>4</sub> S	526-542	0.1	1	200	-						
	140245		N <sub>2</sub> P	<del>526-542</del>									-549	
			F <sub>15</sub>											
			M <sub>15</sub>											
			S <sub>2</sub> P											
			O <sub>2</sub> P <sub>8</sub> S <sub>15</sub>											
			C <sub>15</sub>											
			Sn <sub>3</sub> d											
21:50	140247	N <sub>2</sub> O <sub>x</sub>	valence	-1-39	0.1	1	50	0.126	120	18.13	0.58-10 <sup>-3</sup>	301	-548.5	
	140250		overview	-15-540	0.1	1	200	-	830	46.27	1.58-10 <sup>-3</sup>	201		X = -0.589
	140251	N <sub>2</sub> O <sub>x</sub>	O <sub>4</sub> S	520-536	0.1	1	200	0.126	830	-	-	-	-548.25	X = -0.589
	140253		N <sub>2</sub> P	55-80		1								
			F <sub>15</sub>	676-689		1								
			N <sub>15</sub>	390-418		1								
			O <sub>2</sub> P <sub>8</sub> S <sub>15</sub>	129-204		1								
			S <sub>2</sub> P	453-173		1								
			C <sub>15</sub>	228-289		1								
23:02	140255	Au	Au <sub>4</sub> P	74-89			50	0.126	830	-	-	-	Au pos.	
	140256	Au					200	-	-	-	-	-		
	140257	Au	Au <sub>4</sub> Fe <sub>15</sub>	-5-10		3	70	-	250	25.65	1.18-10 <sup>-3</sup>	201		

6X

3X

(14)

09/08/2018

Time	File name	Sample	Region	Spectrometer						Beamline				y	Comments
				Start-End	Step	scans	Epass	tint	hv	U gap	Current	I-sample			
23:12	140258	NiOx	overview	-5-89	0.1	1	70	0.176	250	25.65	11.7-10 <sup>-9</sup>	29	-548		
			valence	-1-25	-	5	-	-	-	-	-	-			
			overview	-5-89	-	1	-	-	-	-	-	-			
23:15	140259	PH2/CuCrO <sub>2</sub> ( <sup>63</sup> Ni)	overview	-5-1100	0.5	1	200	0.176	2200	14.4	12.10 <sup>-9</sup>	29	-549	✓	
	260	PI/CuCrO <sub>2</sub> (N)	-	-	-	-	-	-	-	-	-	-	-548	scratched sample	
	261	MNOO/CuCrO <sub>2</sub> (N <sub>2</sub> )	-	-	-	-	-	-	-	-	-	-	-542.5		
	262	BOD/CuCrO <sub>2</sub> (N <sub>2</sub> )	-	-	-	-	-	-	-	-	-	-	-543		
	263	PH2/CuCrO <sub>2</sub>	valence	-1-39	0.1	1	50	0.176	120	18.13	9.58-10 <sup>-9</sup>	30	-549.25		
	265	PI/CuCrO <sub>2</sub>	-	-	-	1	-	-	-	-	-	-	-548.25		
	266	MNOO/CuCrO <sub>2</sub>	-	-	-	1	-	-	-	-	-	-	-542.25		
	267	BOD/CuCrO <sub>2</sub>	-	-	-	1	-	-	-	-	-	-	-543.25		
	268	Ar <sub>2</sub>	Ar <sub>2</sub> fine	-5-10	0.1	3	50	-	-	-	-	-	Ar <sub>2</sub> pos		
	269	Ar <sub>2</sub>	Ar <sub>2</sub> 4f	74-89	0.1	1	200	-	830	46.27	1.57-10 <sup>-9</sup>	20	-		
	270	-	-	-	-	-	50	-	-	-	-	-	-		
	271	PH2/CuCrO <sub>2</sub>	overview	-5-540	0.5	1	200	-	830	-	-	-	-549.25		
	272	PI/CuCrO <sub>2</sub>	-	-	-	-	-	-	-	-	-	-	-548.25		
	273	MNOO/CuCrO <sub>2</sub>	-	-	-	-	-	-	-	-	-	-	-547.25		
	274	BOD/CuCrO <sub>2</sub>	-	-	-	-	-	-	-	-	-	-	-543.25		

15

9/8/2018

Time	File name	Sample	Region	Spectrometer				Beamline				y	Comments
				Start-End	Step	scans	Epass	tint	hv	U gap	Current	I sample	
	225	B09/Cu40x	O1s			1	200		830	46/22	1.58-10 <sup>-9</sup>	20p	-553.15
	226		F1s			1	50						
	227		N1s			1	200						
			Cu2p			2	"						
			S2p			1	"						
			Isolated			1	"						
			C1s			1	"						
			Sm3d			1	"						
	228		Cu2p			1	200		2200	14,4	1.2-10 <sup>-9</sup>		-553.75
	<del>229</del>		valence			10	"						
	229	--	Cu2p			1	"						
	230	--	O1s			1	"		2200	--	--		-554.25
	280	--	Cu2p			1	"						
	281	--	Cu2p			1	"						
			F1s			1	"						
			N1s			1	"						
			Cu2p			3	"						
			S2p			1	"						
			C1s			1	"						
			Sm3d			1	"						
3x	282-284	AlN001.40	REP						830				-553
1x	285	"	REP						2200				-553.25
3x	286-288	"	REP						2200				-553.25

16

10/08/2018



[illegible]

10/08/2018