

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18438 - L2 Version 1
Chandra X-Ray Center

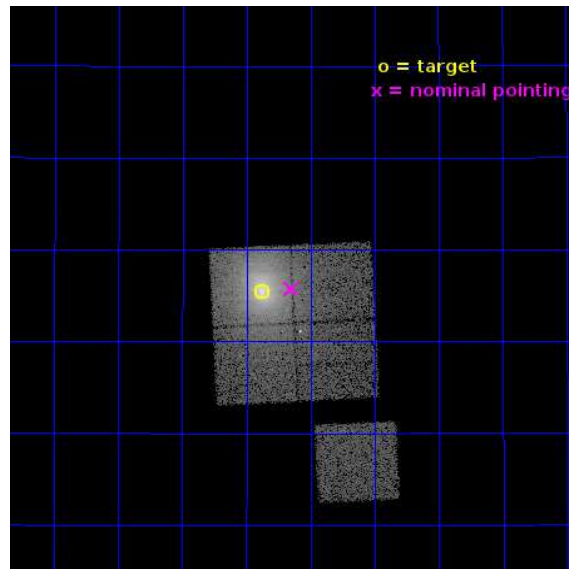
L2 Processing Date : Apr 17 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

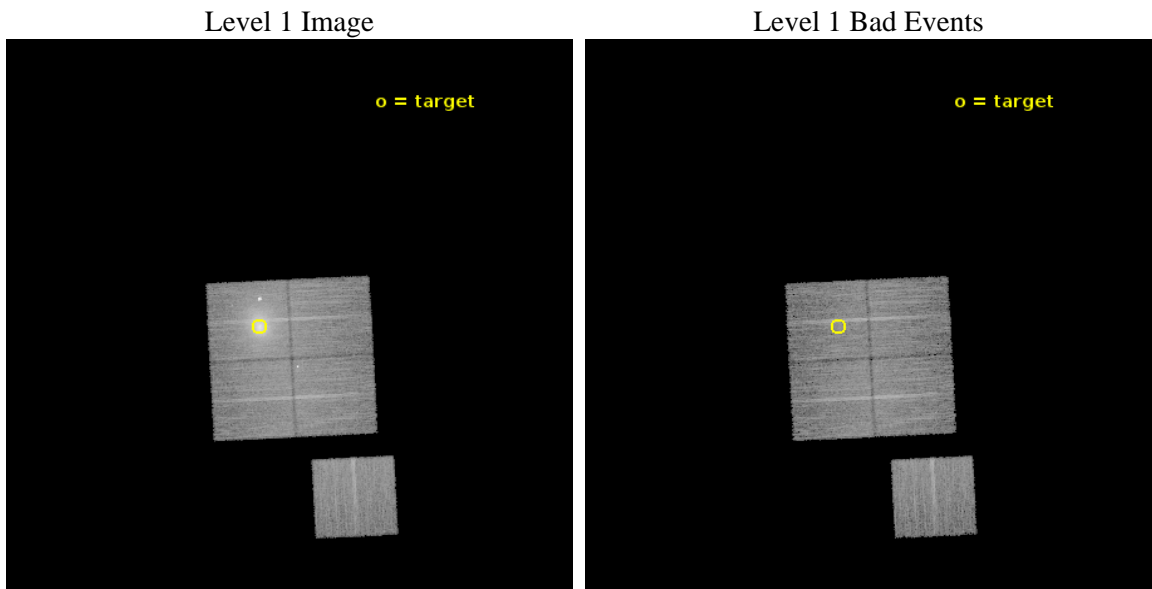
seq_num	890131	Sequence number
obs_id	18438	Observation id
title	AO-17 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.16229406464	Nominal RA [deg]
dec_nom	26.595997029437	Nominal Dec [deg]
roll_nom	177.07437714786	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14771.500113726	Sum of GTIs [s]
livetime	14578.49959012	Livetime [s]
ontime0	14771.500113726	Sum of GTIs [s]
ontime1	14771.500113726	Sum of GTIs [s]
ontime2	14771.500113726	Sum of GTIs [s]
ontime3	14771.500113726	Sum of GTIs [s]
ontime6	14771.500113726	Sum of GTIs [s]
l2events	130130	Number of level 2 events



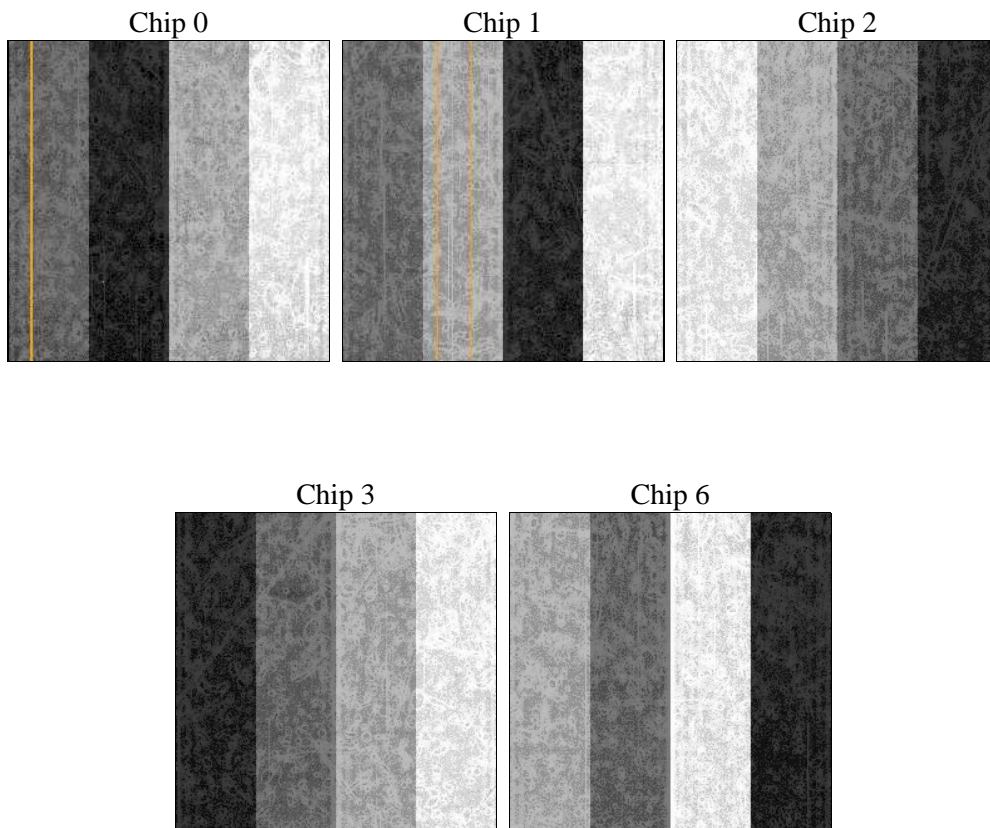
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	14771.500113726	Sum of GTIs [s]
caldbver	4.7.1	 	ontime0	14771.500113726	Sum of GTIs [s]
date	2016-04-17T19:27:05	Date and time of file creation	ontime1	14771.500113726	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	14771.500113726	Sum of GTIs [s]
			ontime3	14771.500113726	Sum of GTIs [s]
			ontime6	14771.500113726	Sum of GTIs [s]
			l1events	542404	Number of level 1 events

2.1.4 Events

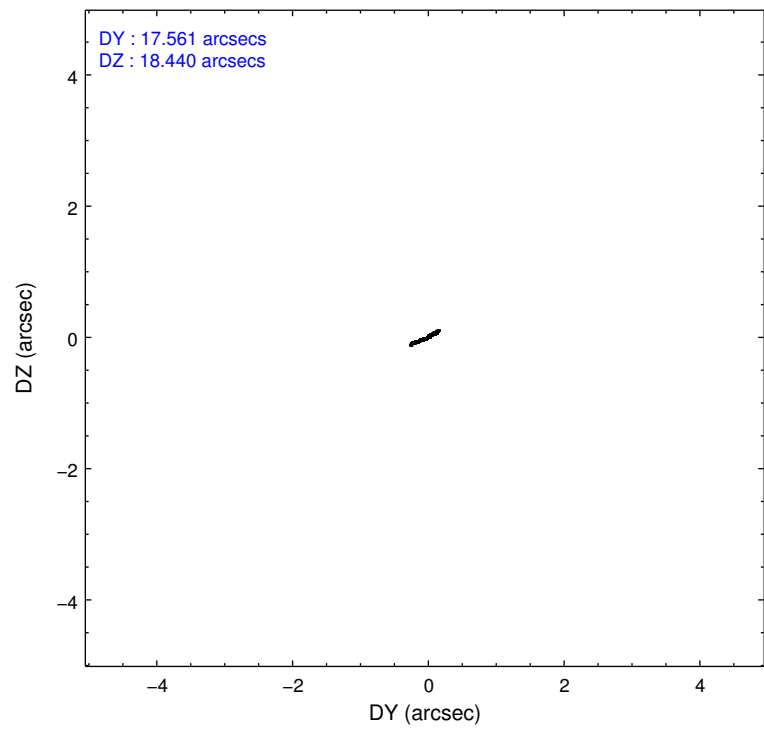
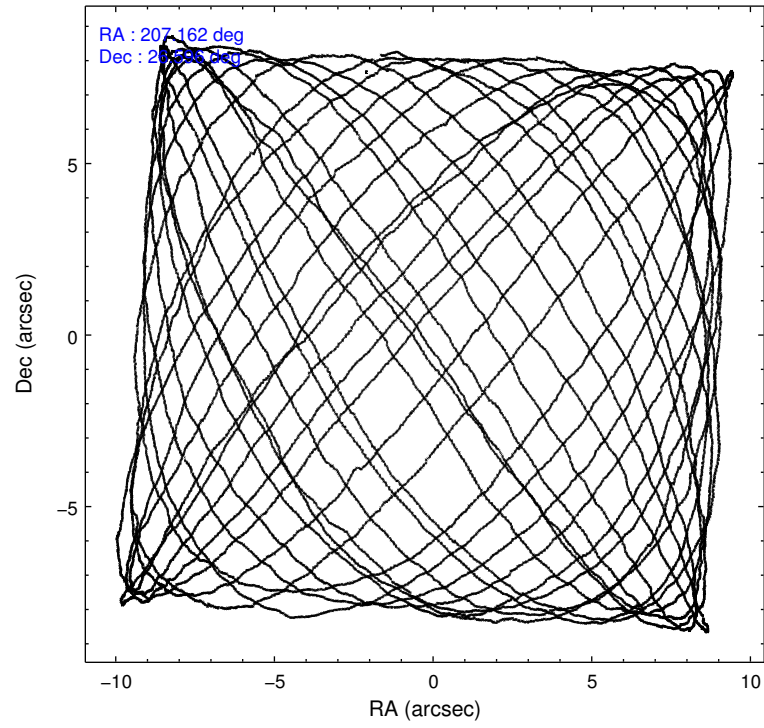
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	90284	170409	97250	93807	90654
rejected events	75426	74112	85046	79576	80404
rejected %	83%	43%	87%	84%	88%

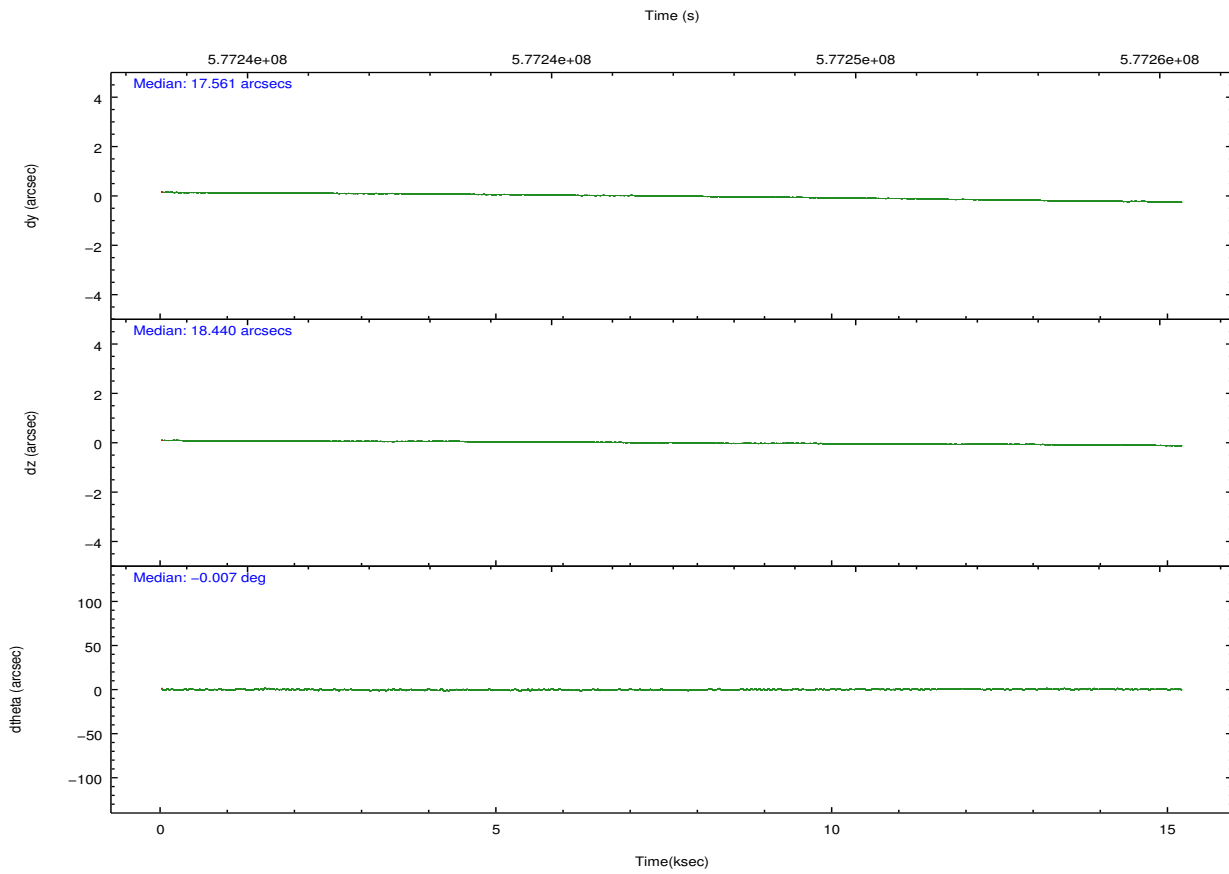
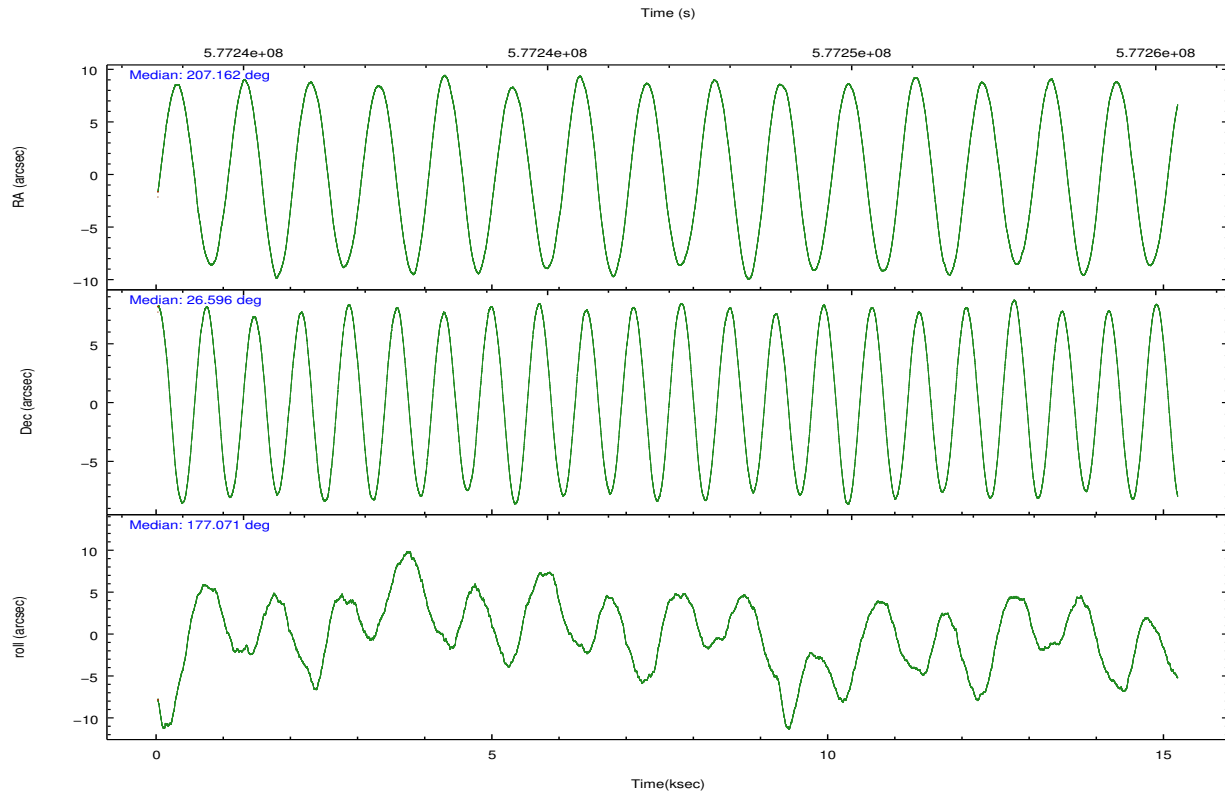
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	7151	70963	5534	7124	3304
	7%	41%	5%	7%	3%
grade 1 events	53	303	85	75	37
	0%	0%	0%	0%	0%
grade 2 events	3009	13097	2567	2562	2397
	3%	7%	2%	2%	2%
grade 3 events	1229	3651	1078	1183	976
	1%	2%	1%	1%	1%
grade 4 events	1143	3518	1086	1191	946
	1%	2%	1%	1%	1%
grade 5 events	3739	4239	3513	4326	4014
	4%	2%	3%	4%	4%
grade 6 events	2340	5121	1947	2174	2632
	2%	3%	2%	2%	2%
grade 7 events	71620	69517	81440	75172	76348
	79%	40%	83%	80%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	207.189723	207.1622940646382	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.608648	26.59599702943709	Alternating exposures requested	N	N
[deg] Pointing Roll	176.853404	177.0743771478634	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	575856068.184000	575856068.184000			
[s] Window stop time (MET)	578361668.184000	578361668.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-246.722463	-246.7272462267813			
[mm] SIM translation stage offset	13.13	13.13479322385157			
[s] Observation start time (MET)	577239572.184000	577239196.35191			
Observation start date	2016-04-17T00:18:24	2016-04-17T00:13:16			
[s] Observation end time (MET)	577254572.184000	577254706.65279			
Observation end date	2016-04-17T04:28:24	2016-04-17T04:31:46			
Read mode	TIMED	TIMED			

2.3 Aspect





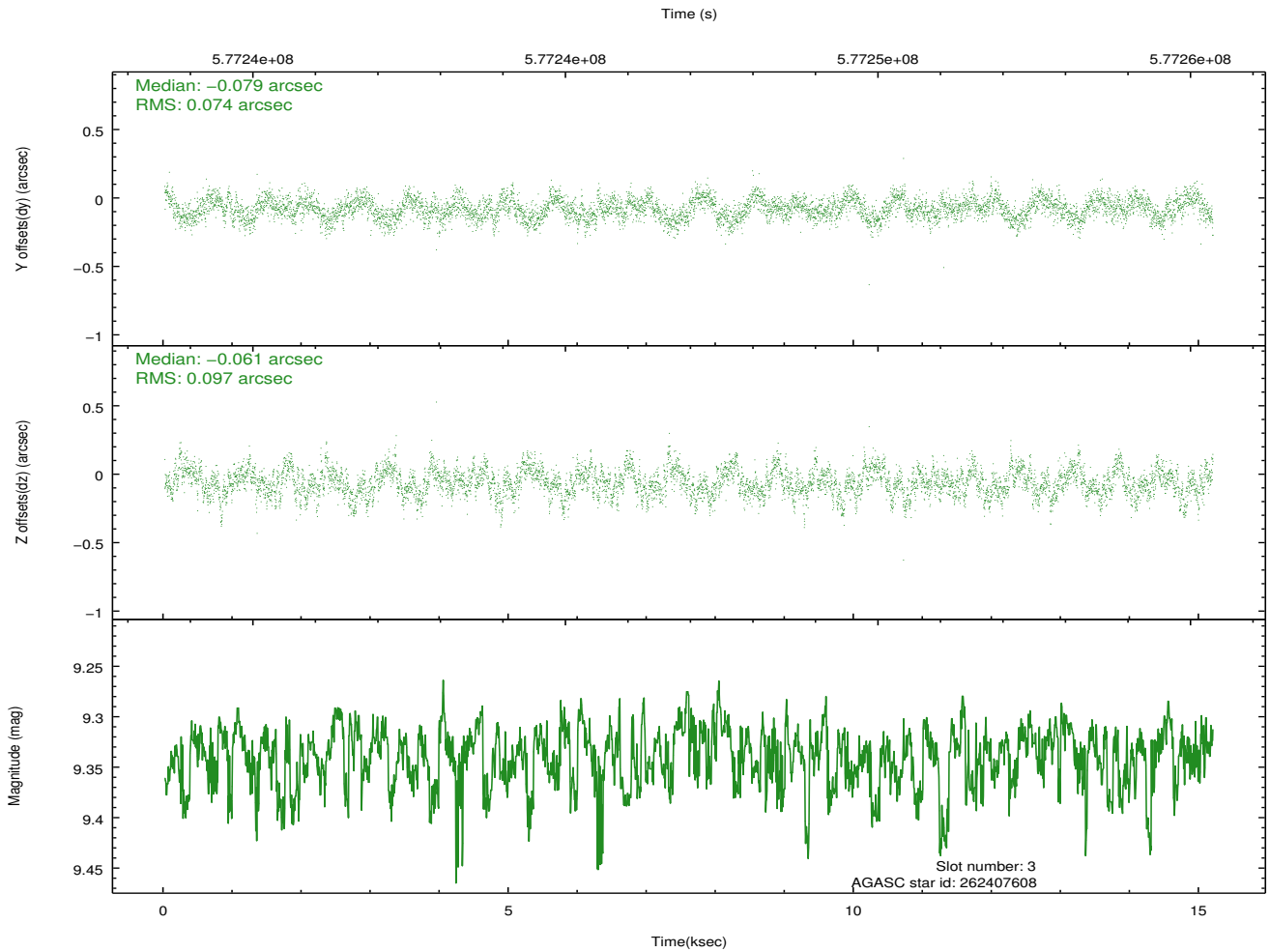
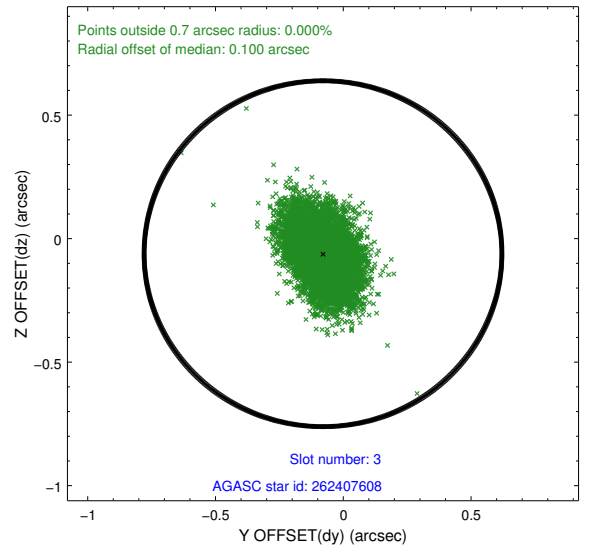
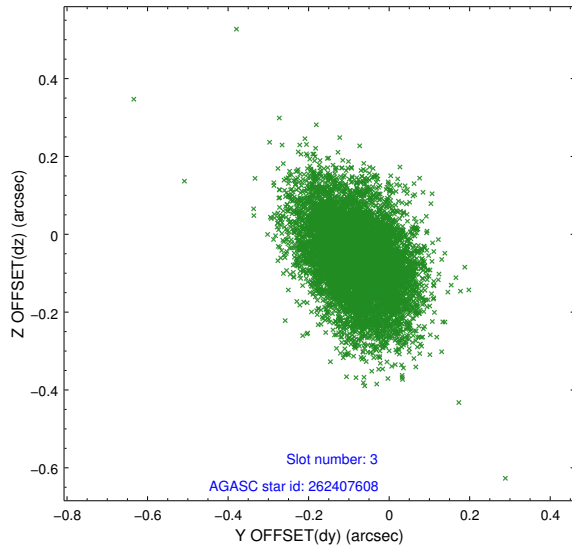
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.34	3704	-0.023	0.108	0.007	0.012	0.000000	0.000000	922.12	-572.03
1	FID		ACIS-I-5	7.28	3704	-0.233	-0.005	0.008	0.013	0.000000	0.000000	-1826.19	1325.04
2	FID		ACIS-I-6	7.25	3704	0.165	-0.033	0.009	0.013	0.000000	0.000000	387.32	1970.03
3	GUIDE	used	262407608	9.34	7382	-0.079	-0.061	0.128	0.214	207.378401	26.435507	-641.33	588.85
4	GUIDE	used	262408096	9.30	7398	-0.223	-0.174	0.148	0.230	207.011678	26.515421	555.03	366.28
5	GUIDE	used	262408512	7.97	7407	0.021	0.288	0.087	0.137	207.800210	27.128796	-1849.31	-1981.25
6	GUIDE	used	262409552	8.19	7404	0.113	0.104	0.138	0.223	206.584269	27.192805	2052.23	-1997.47
7	GUIDE	used	262275256	7.73	7405	0.166	-0.153	0.108	0.192	206.467522	27.226414	2432.03	-2100.30

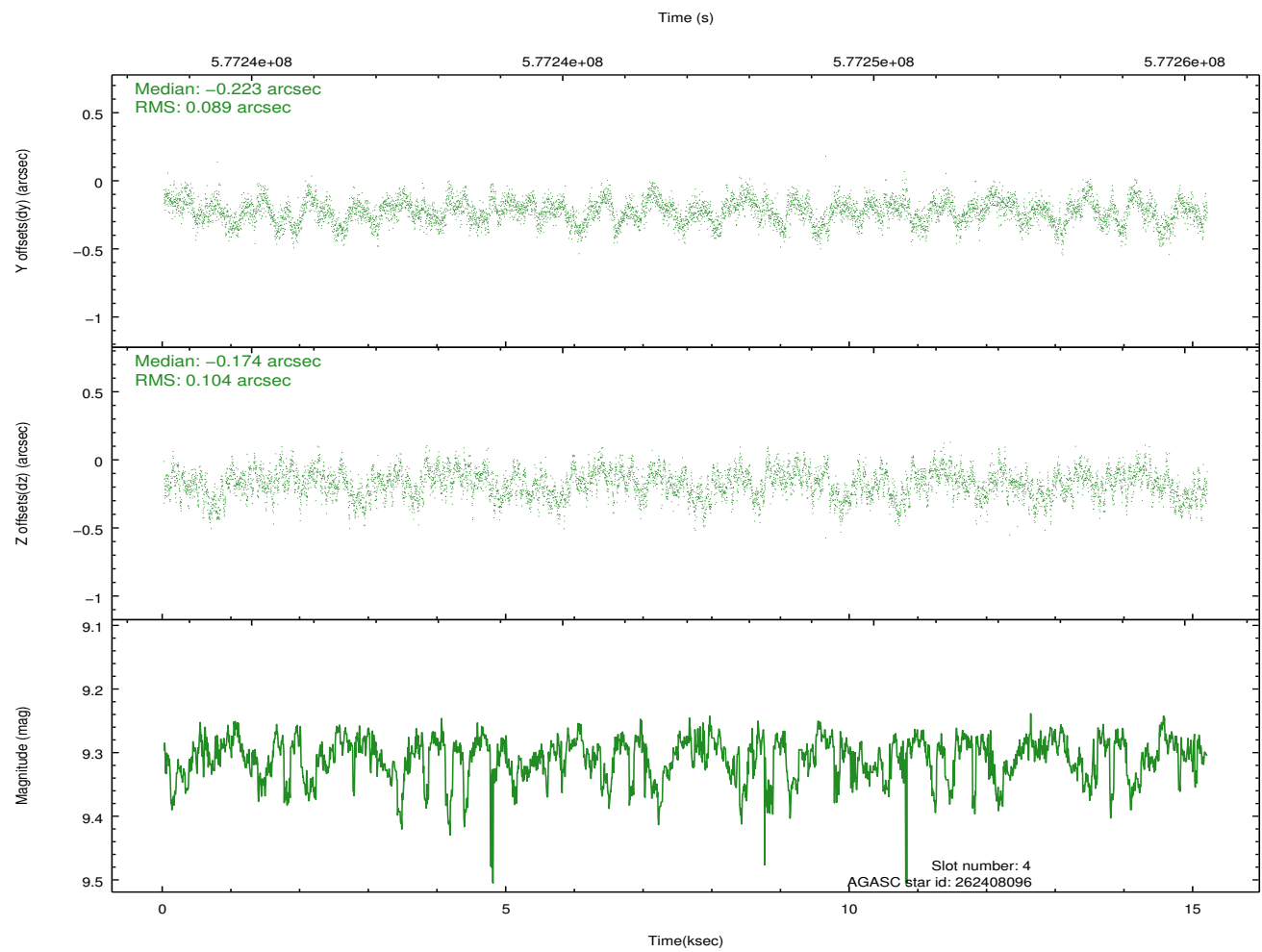
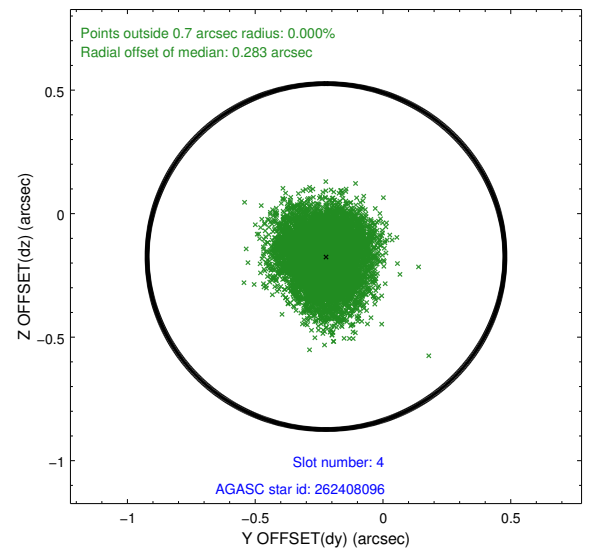
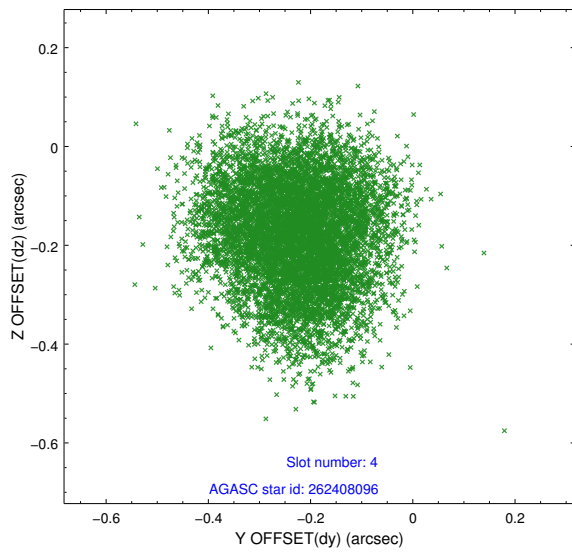
∞

2.4 Star Slots

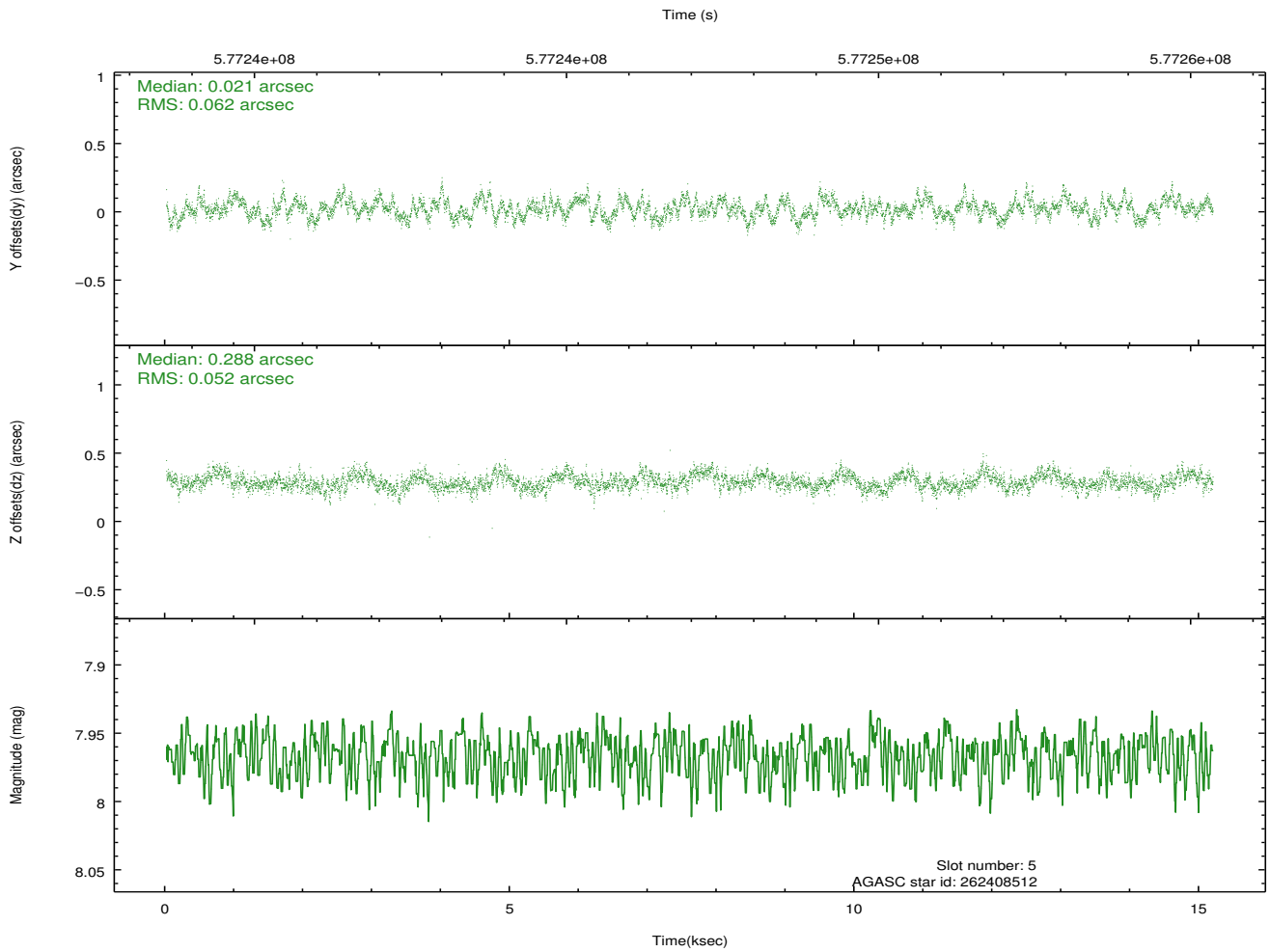
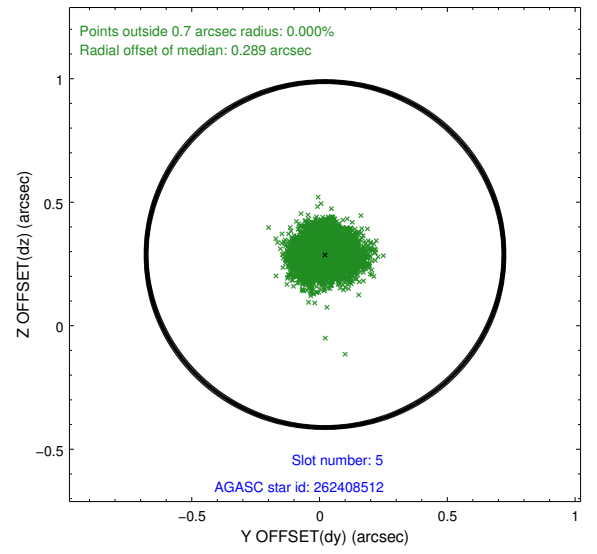
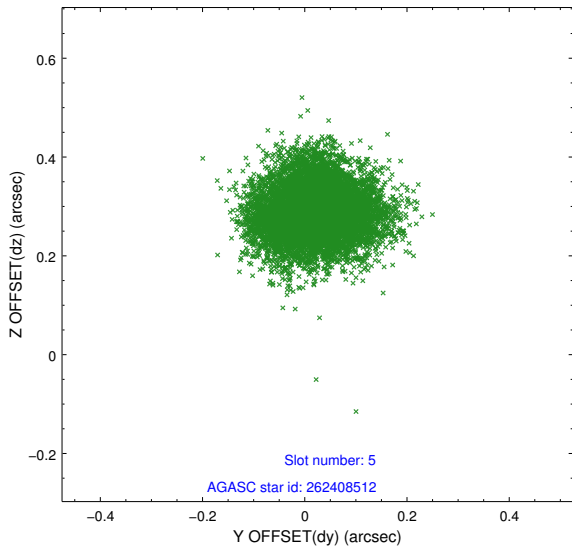
2.4.1 Slot 3



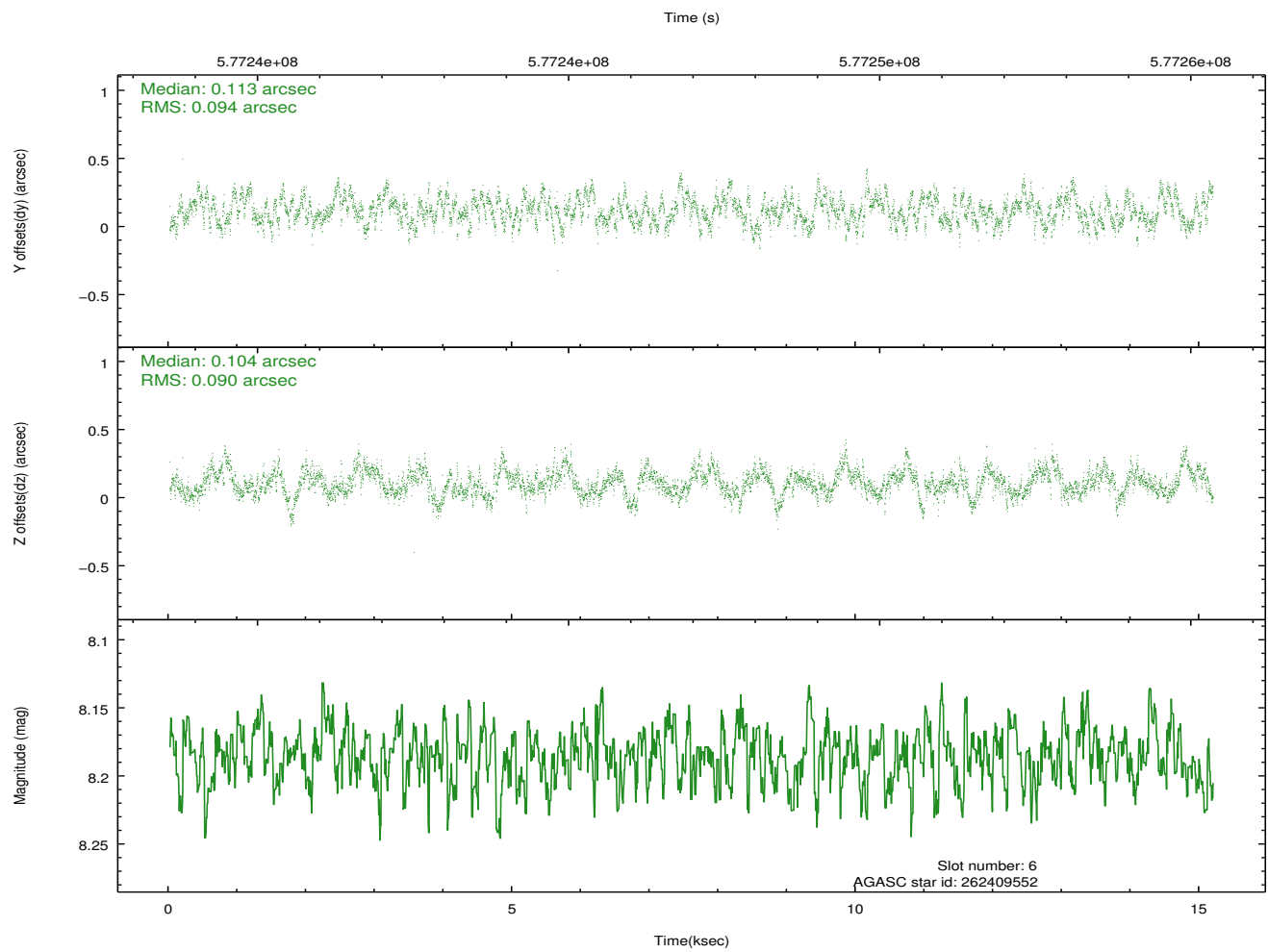
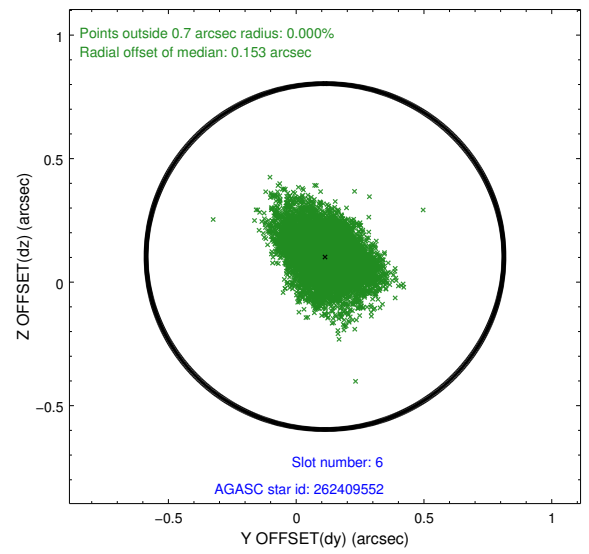
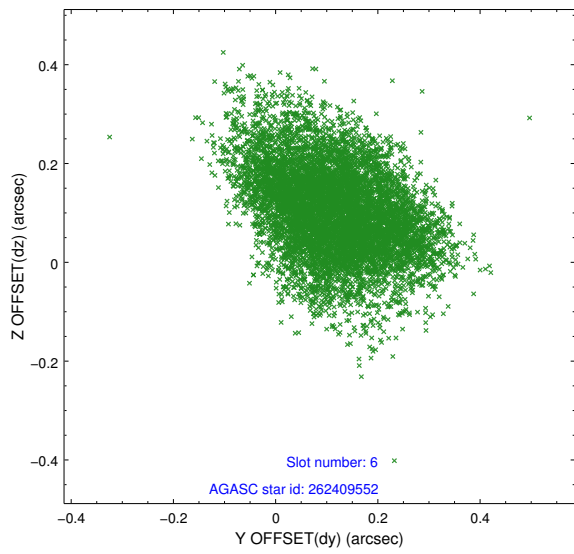
2.4.2 Slot 4



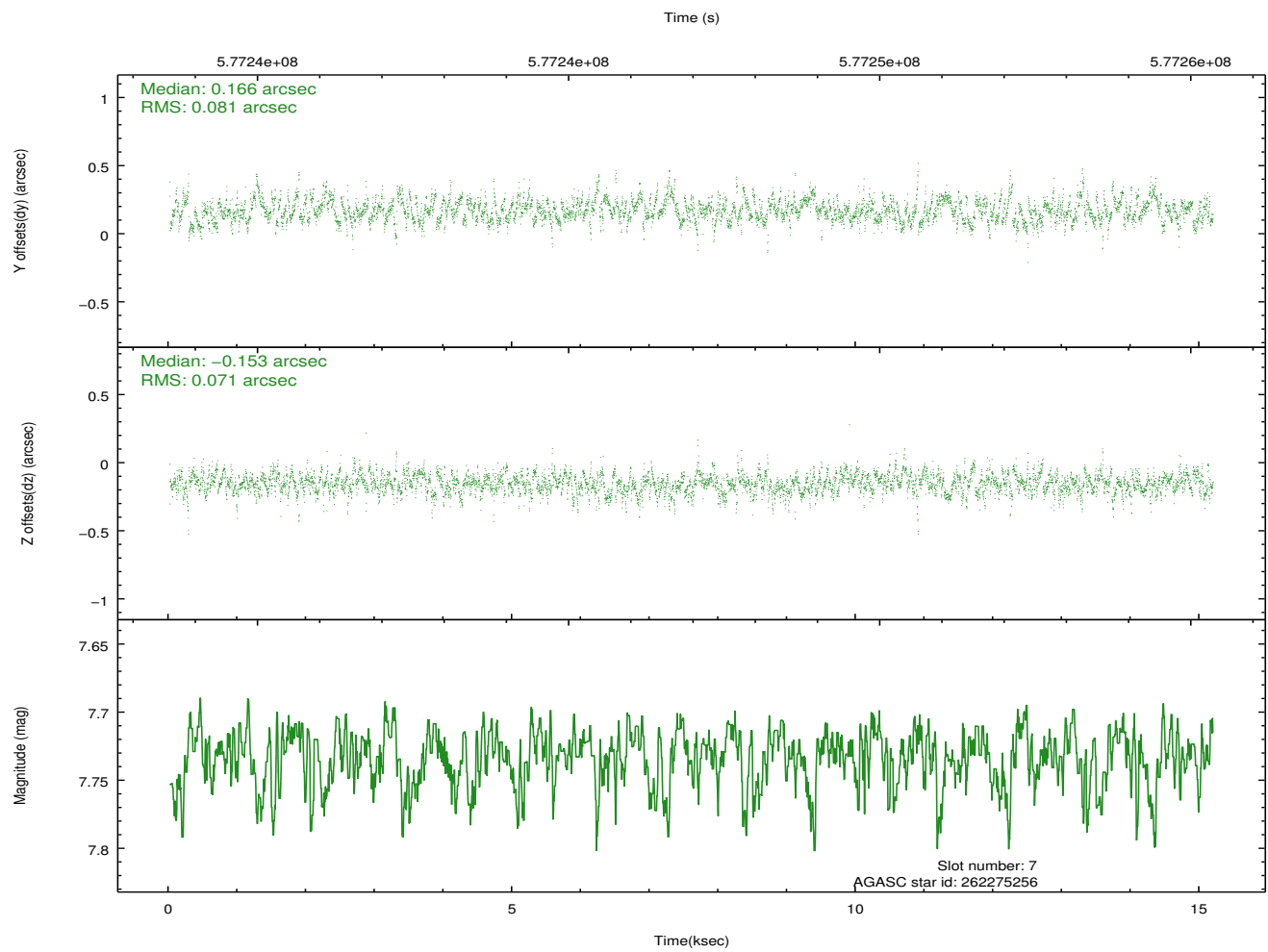
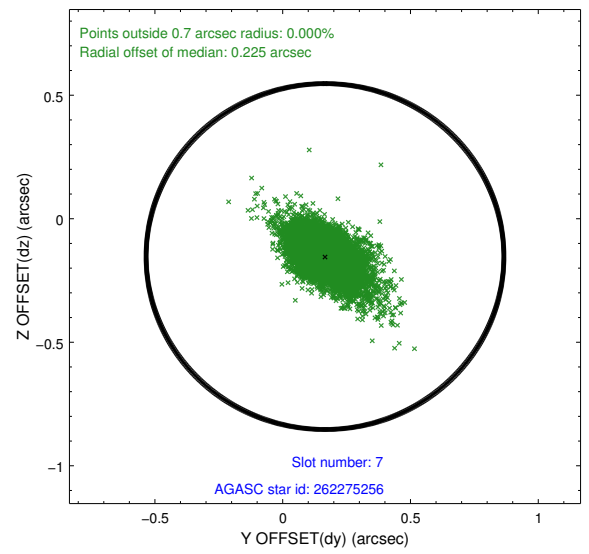
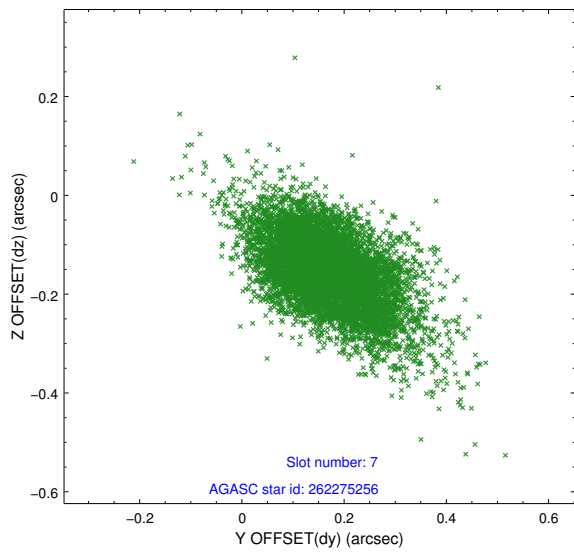
2.4.3 Slot 5



2.4.4 Slot 6

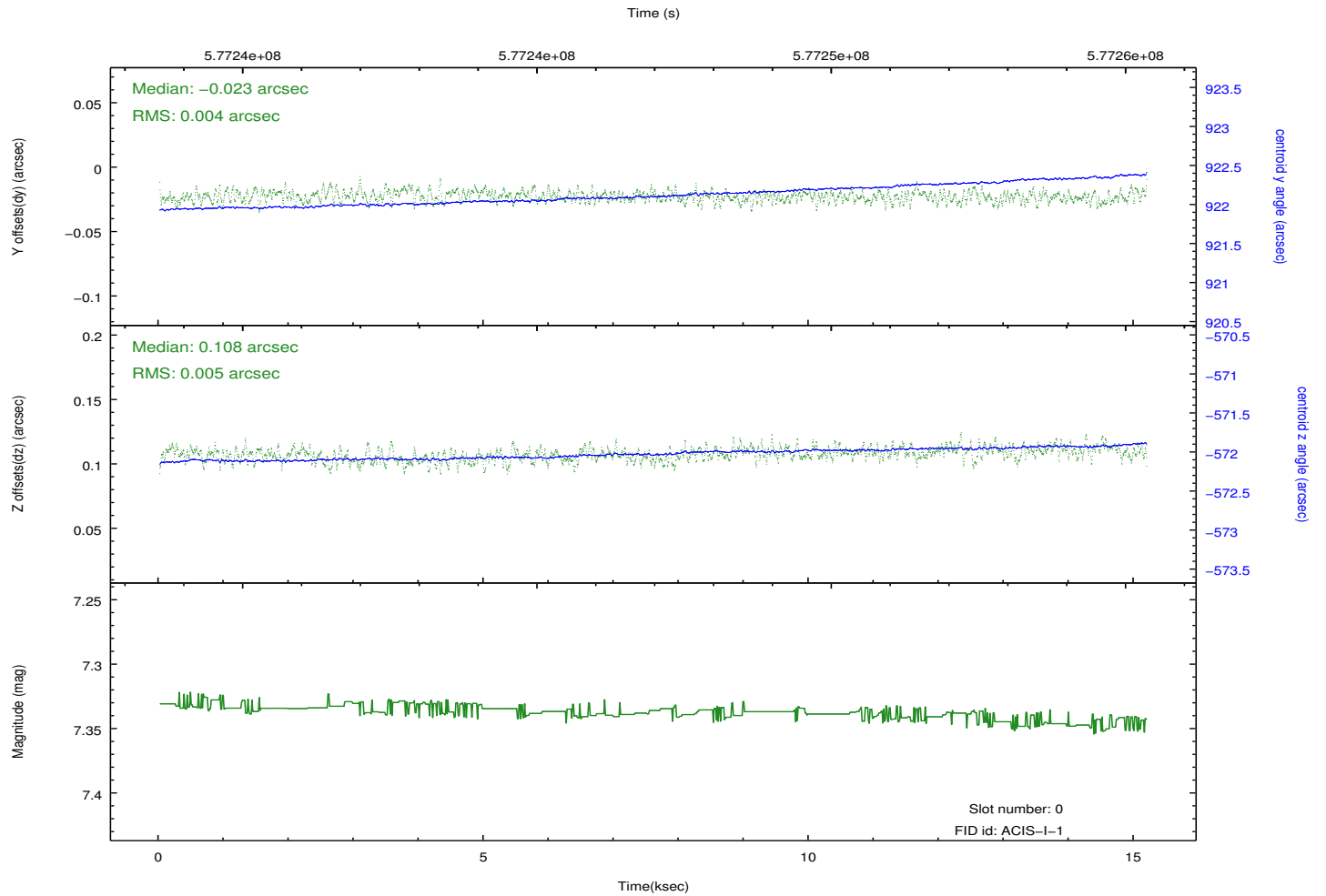
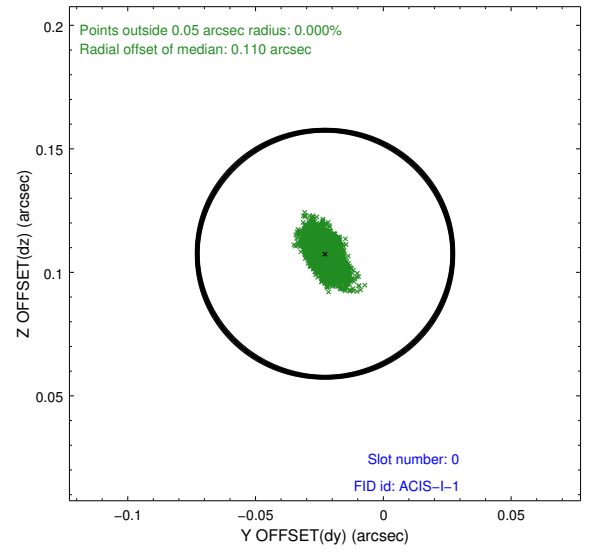
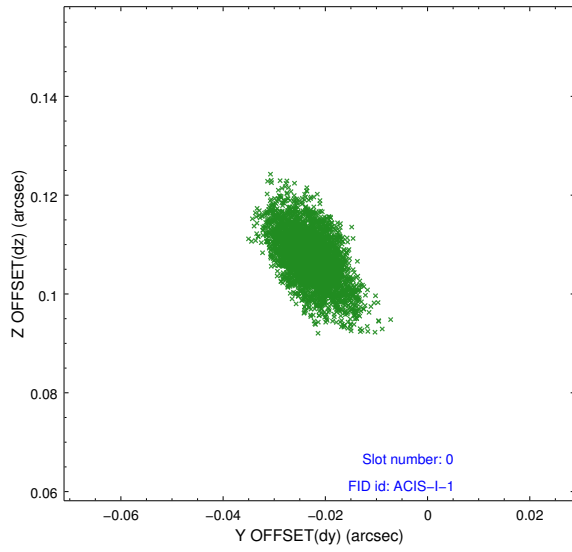


2.4.5 Slot 7

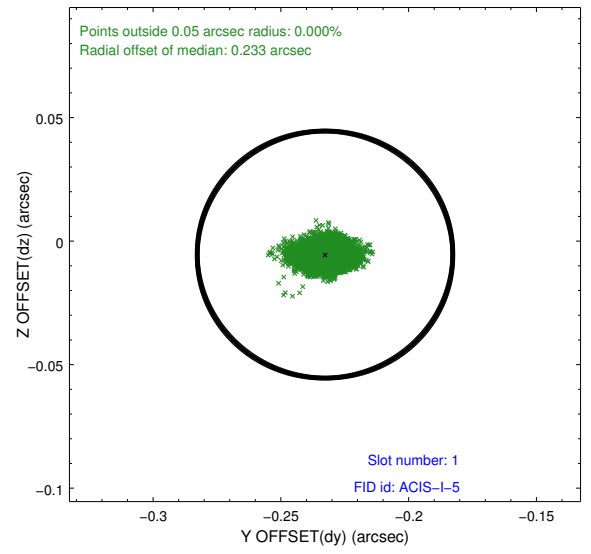
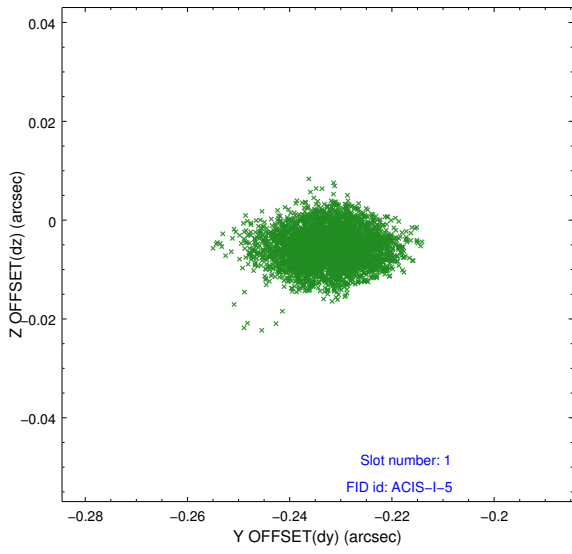


2.5 FID Slots

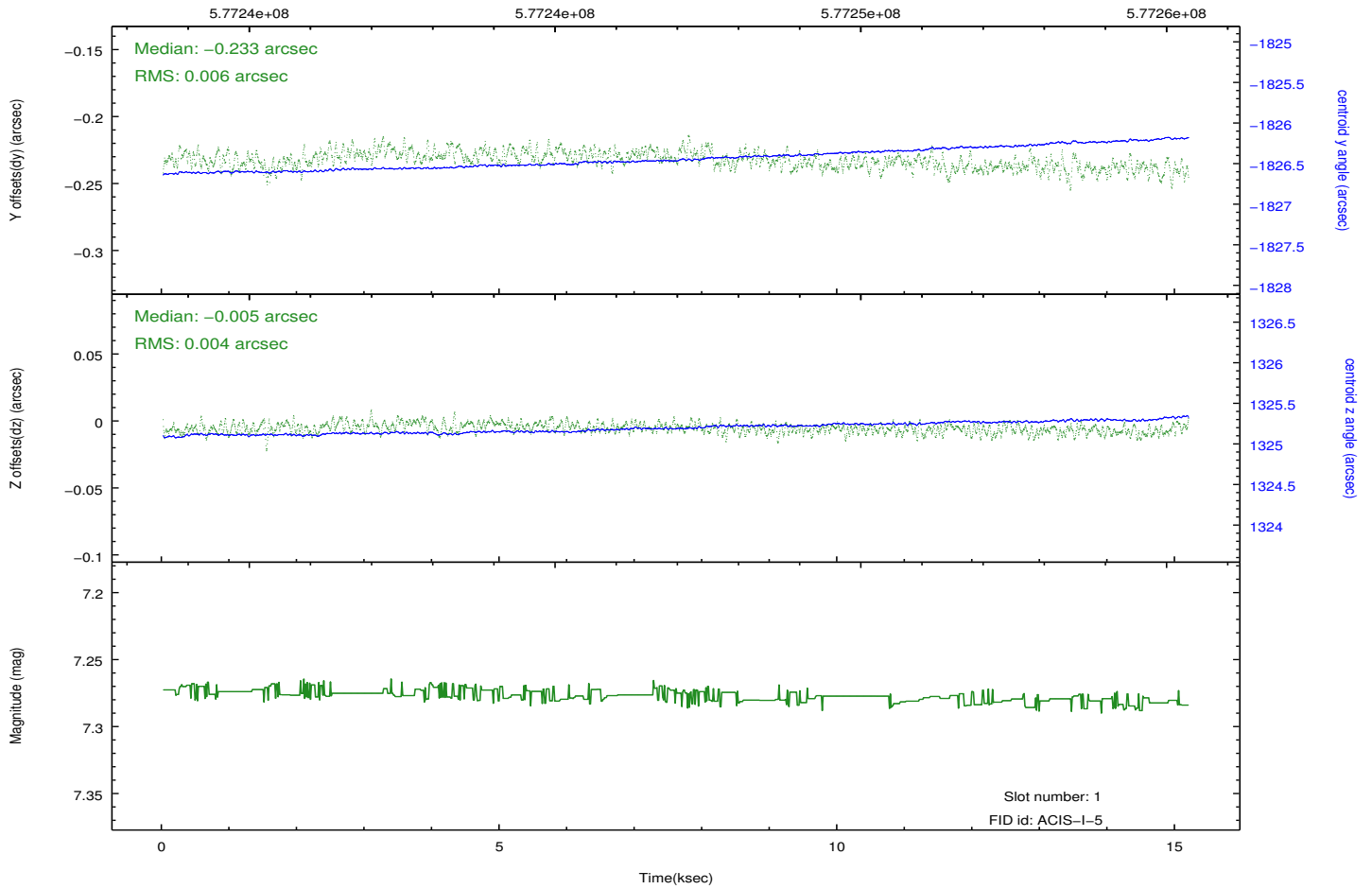
2.5.1 Slot 0



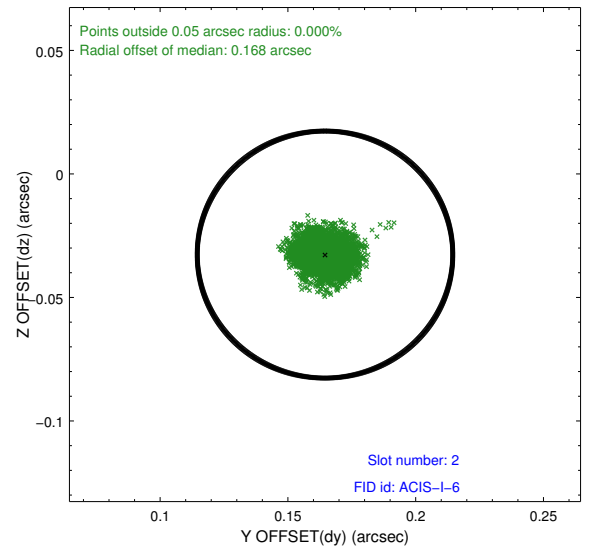
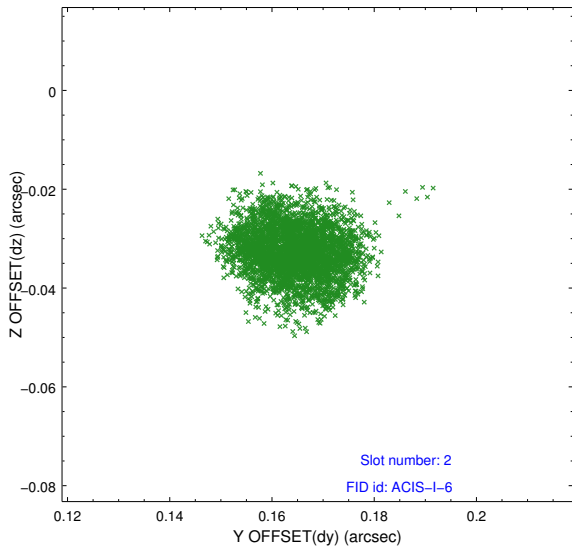
2.5.2 Slot 1



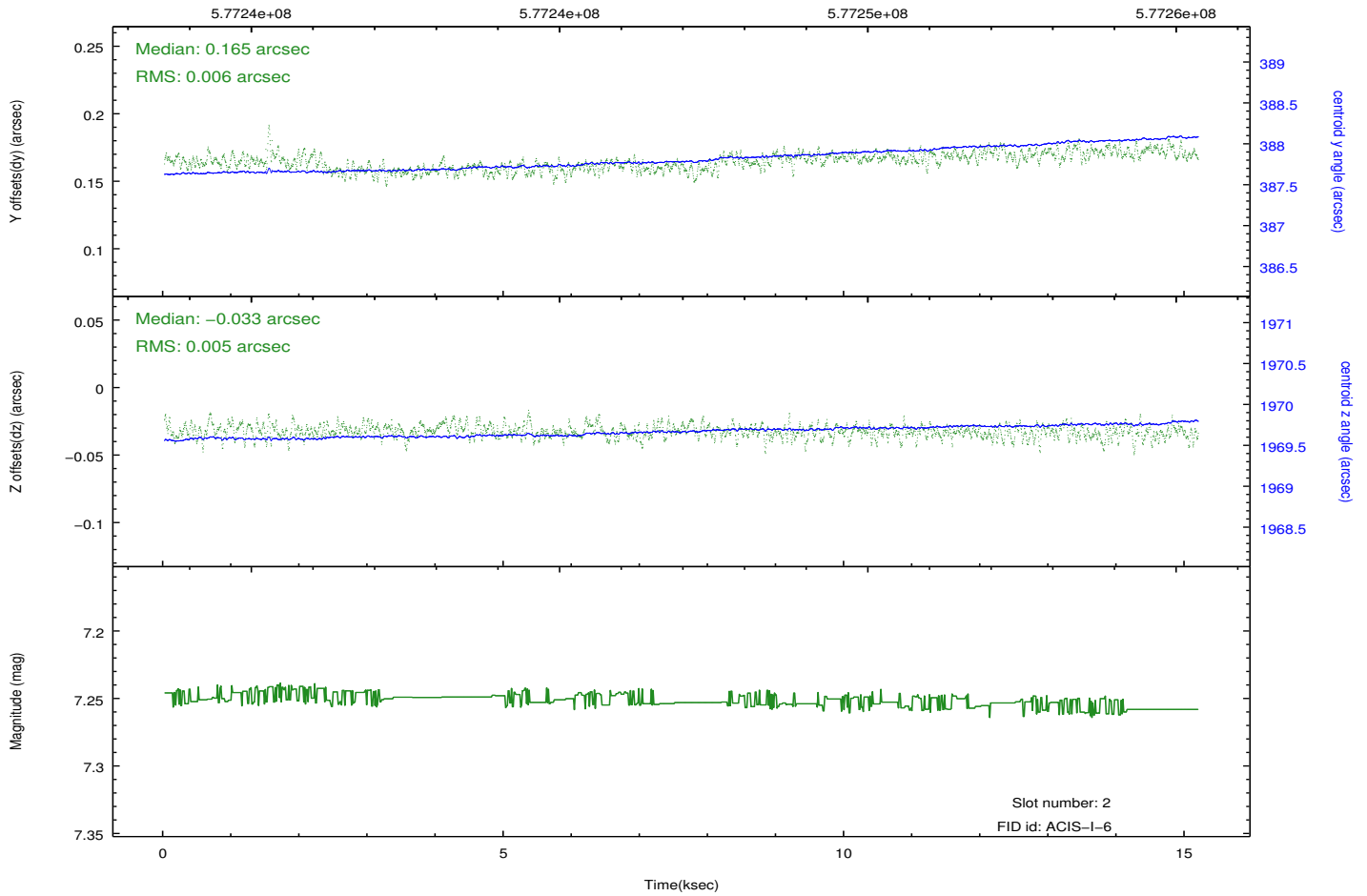
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.771500113726

A.2 Comments

Window preference met.