

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4165 - L2 Version 6
Chandra X-Ray Center

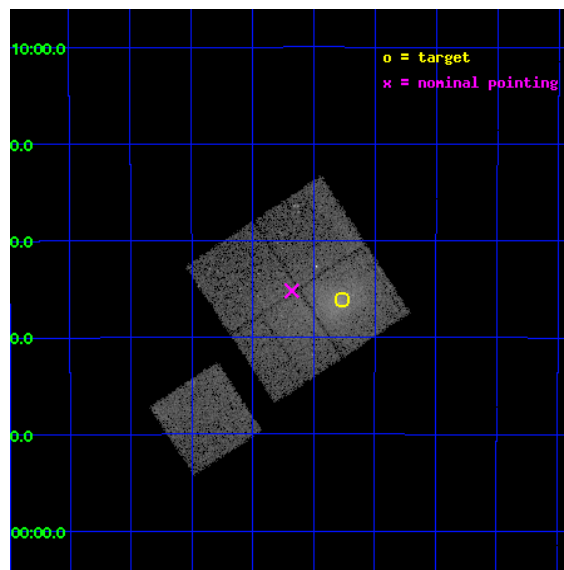
L2 Processing Date : Jan 22 2013

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1 Front

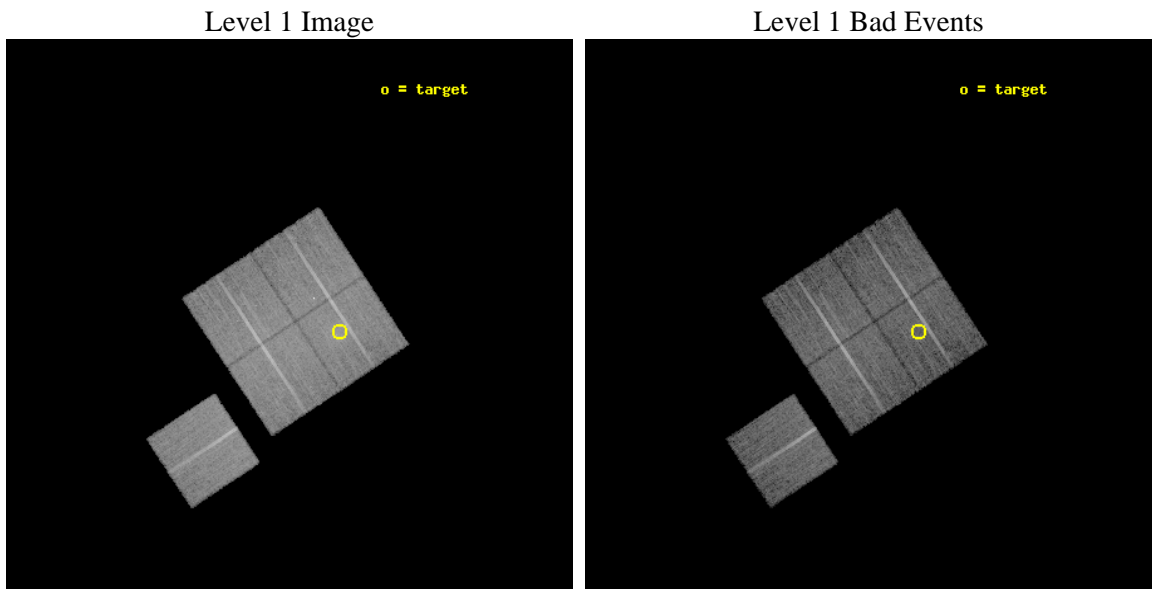
seq_num	800321	Sequence number
obs_id	4165	Observation id
title	SPATIALLY RESOLVED OBSERVATION OF A MAJOR MERGING EVENT IN THE SHAPLEY SUPERCLUSTER	Proposal title
observer	Dr. Stefano Etori	Principal investigator
object	SC1327-312	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.440833	Observer's specified target RA [deg]
dec_targ	-31.6025	Observer's specified target Dec [deg]
ra_nom	202.54481361701	Nominal RA [deg]
dec_nom	-31.586577301702	Nominal Dec [deg]
roll_nom	236.54333108478	Nominal Roll [deg]
revision	6	Processing version of data
ontime	18612.31799385	Sum of GTIs [s]
livetime	18369.134357071	Livetime [s]
ontime0	18612.31799385	Sum of GTIs [s]
ontime1	18618.599964172	Sum of GTIs [s]
ontime2	18615.459003925	Sum of GTIs [s]
ontime3	18615.458993912	Sum of GTIs [s]
ontime6	18615.458974004	Sum of GTIs [s]
l2events	72467	Number of level 2 events



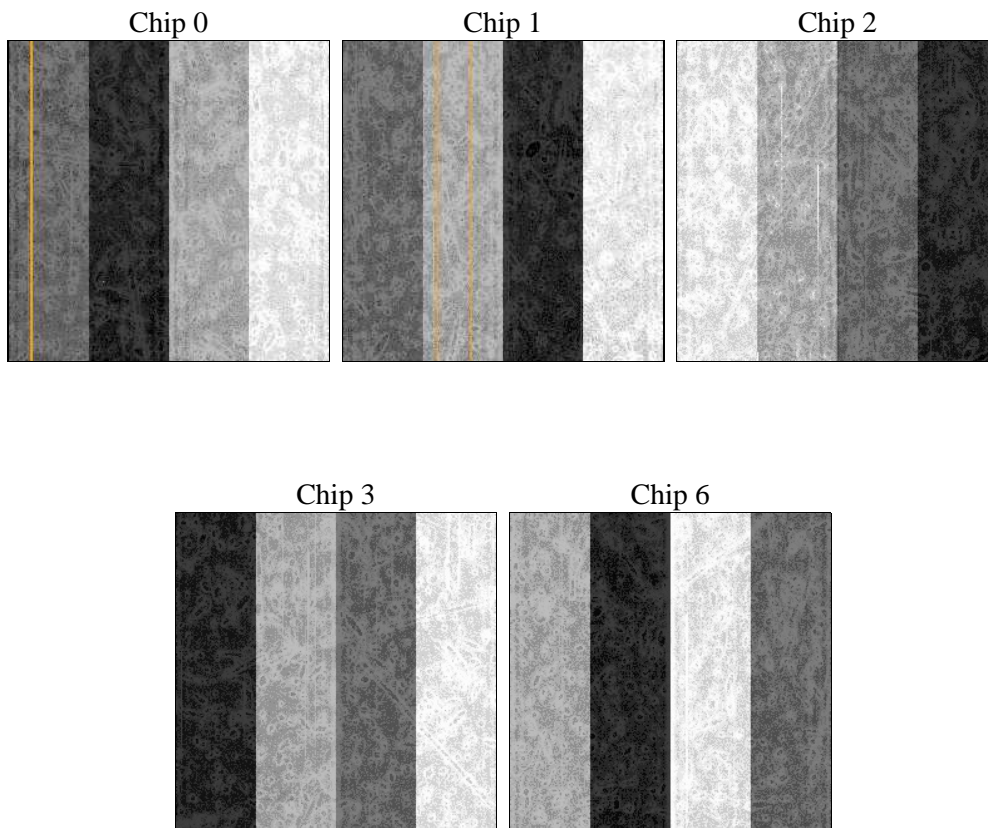
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18500.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	18612.31799385	Sum of GTIs [s]
caldbver	4.5.5	 	ontime0	18612.31799385	Sum of GTIs [s]
date	2013-01-22T20:36:13	Date and time of file creation	ontime1	18618.599964172	Sum of GTIs [s]
revision	6	Processing version of data	ontime2	18615.459003925	Sum of GTIs [s]
			ontime3	18615.458993912	Sum of GTIs [s]
			ontime6	18615.458974004	Sum of GTIs [s]
			l1events	522452	Number of level 1 events

2.1.4 Events

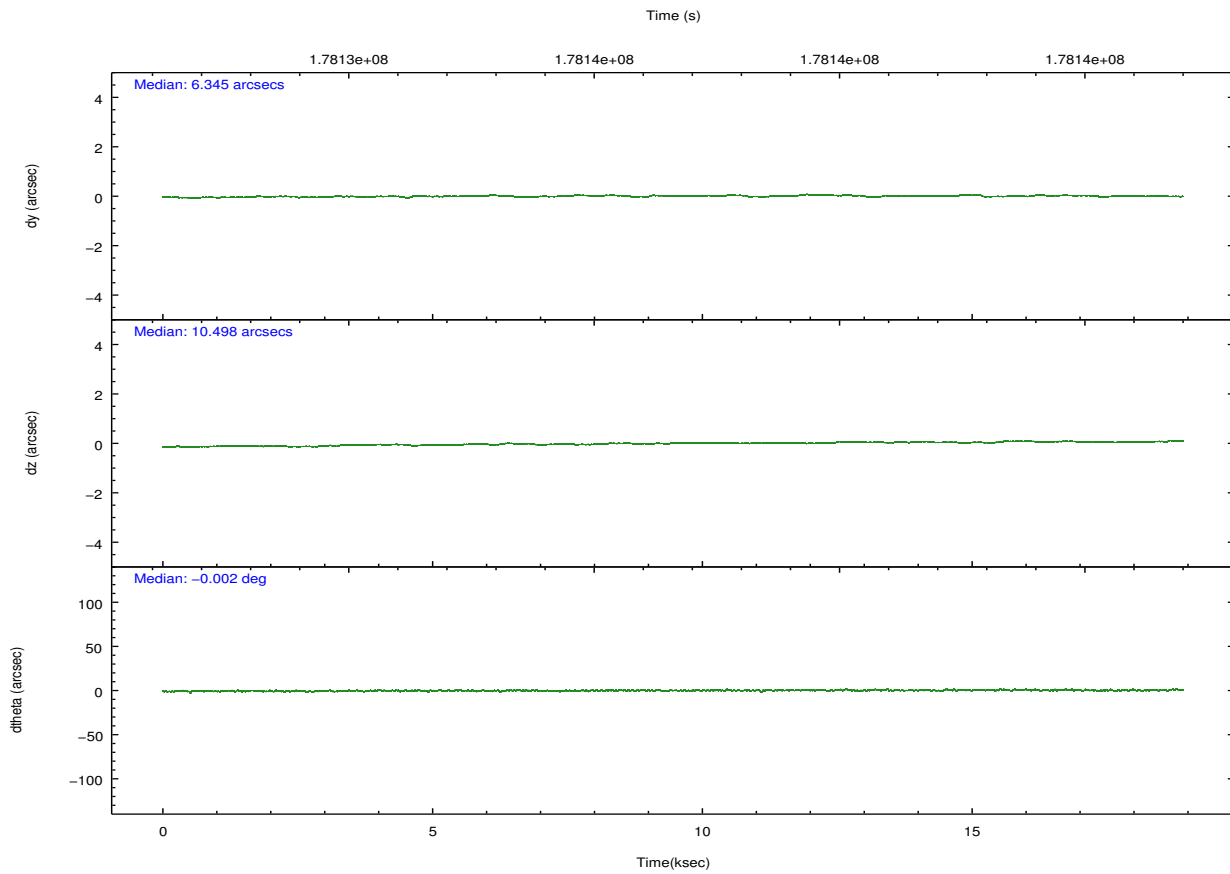
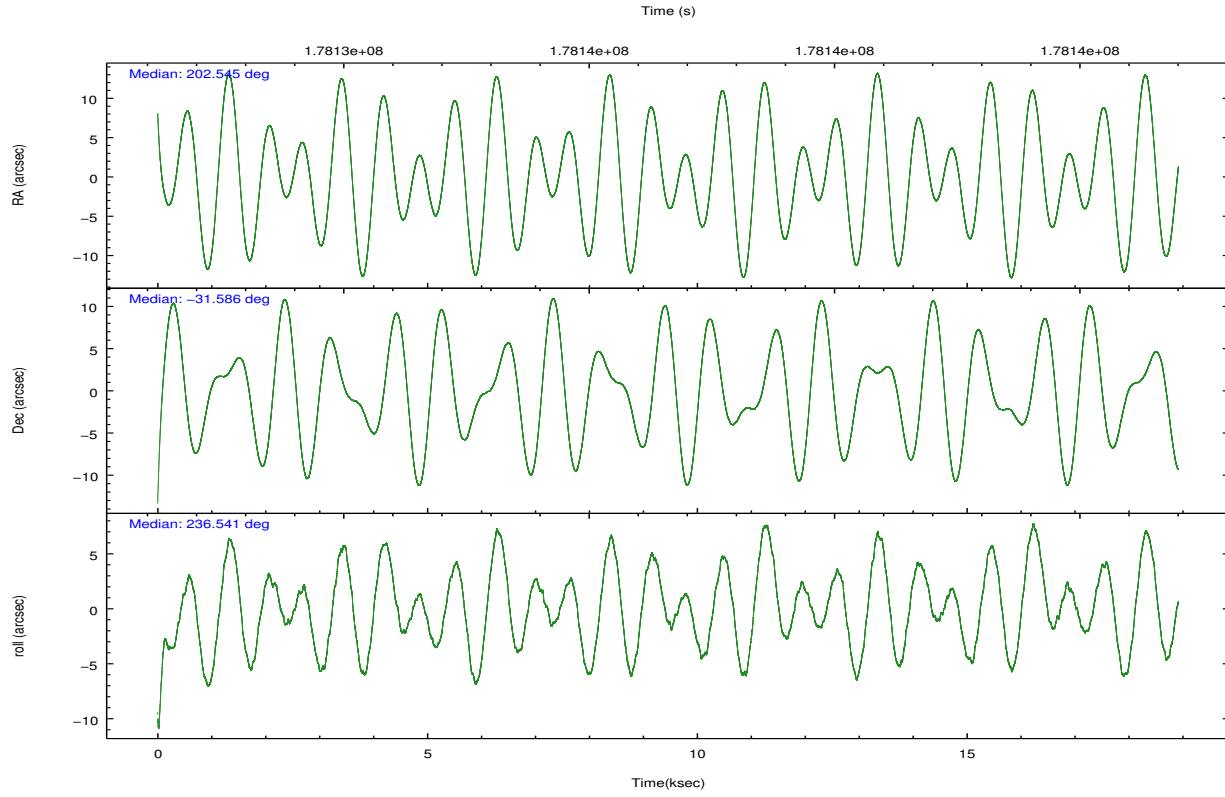
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	106596	97139	110522	102575	105620
rejected events	80924	81581	93945	90738	92349
rejected %	75%	83%	85%	88%	87%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	16399	7963	9276	5429	6108
	15%	8%	8%	5%	5%
grade 1 events	116	97	60	57	49
	0%	0%	0%	0%	0%
grade 2 events	3895	2628	2892	2205	2453
	3%	2%	2%	2%	2%
grade 3 events	1649	1381	1248	1172	1248
	1%	1%	1%	1%	1%
grade 4 events	1544	1318	1268	1168	1208
	1%	1%	1%	1%	1%
grade 5 events	3348	3723	3252	3751	3773
	3%	3%	2%	3%	3%
grade 6 events	2194	2272	1899	1867	2257
	2%	2%	1%	1%	2%
grade 7 events	77451	77757	90627	86926	88524
	72%	80%	81%	84%	83%

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	202.546643	202.5448136170102	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.559234	-31.58657730170211	Alternating exposures requested	N	N
[deg] Pointing Roll	236.335613	236.5433310847772	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	178127570.184000	178126479.79082			
Observation start date	2003-08-24T15:51:46	2003-08-24T15:34:39			
[s] Observation end time (MET)	178146070.184000	178146979.79169			
Observation end date	2003-08-24T21:00:06	2003-08-24T21:16:19			
Read mode	TIMED	TIMED			

2.3 Aspect

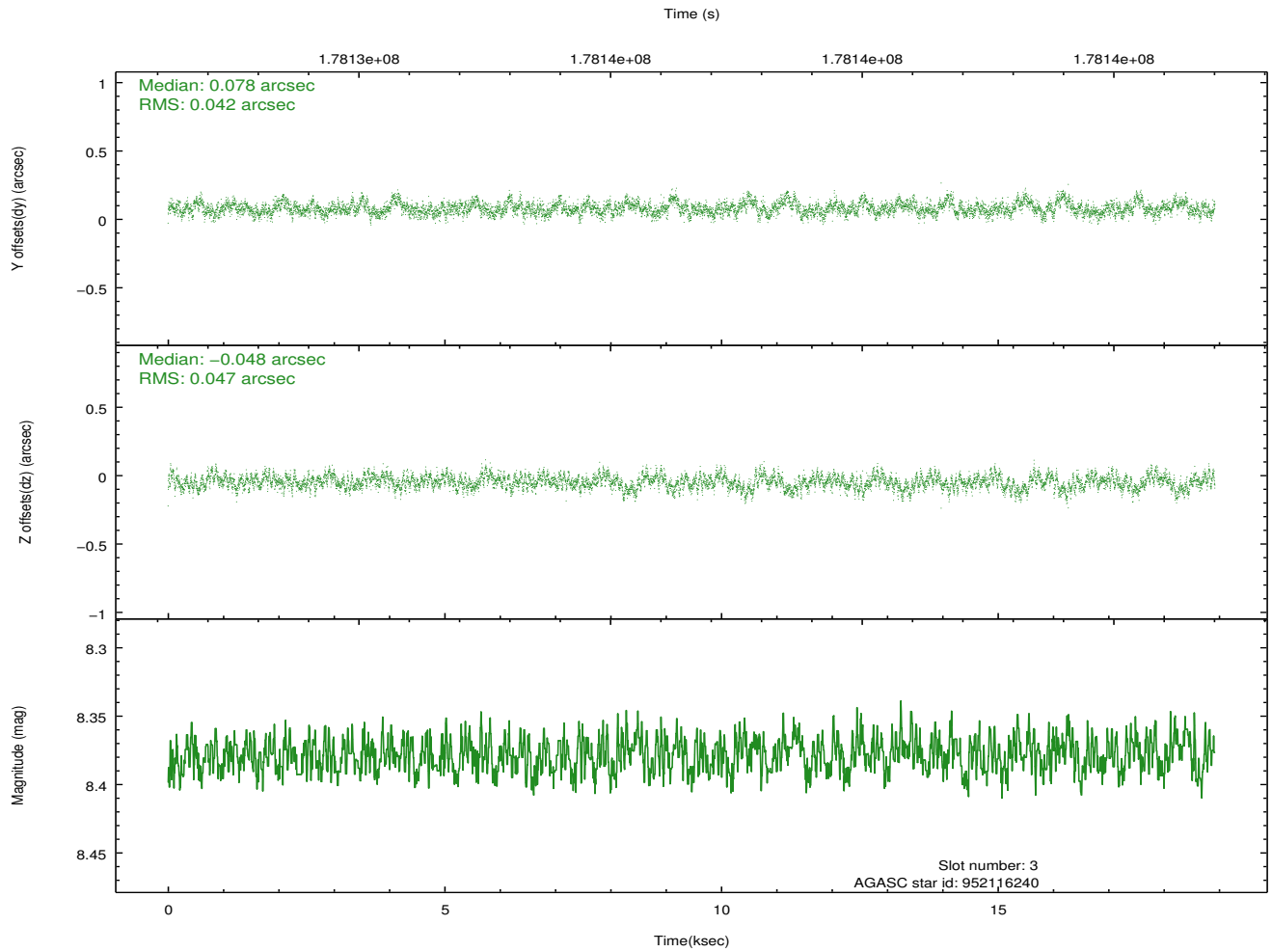
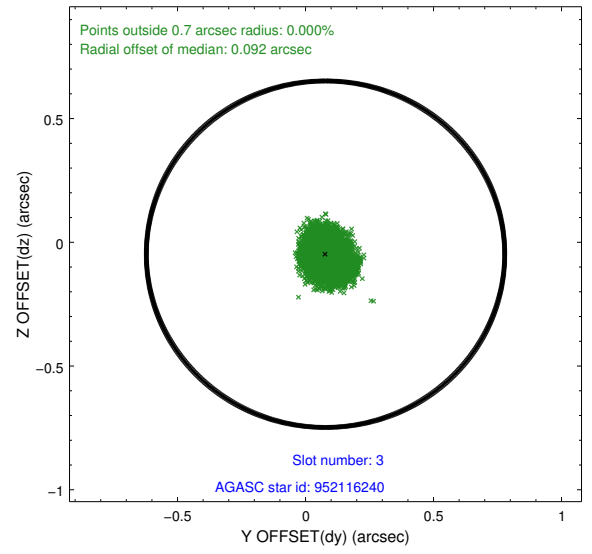
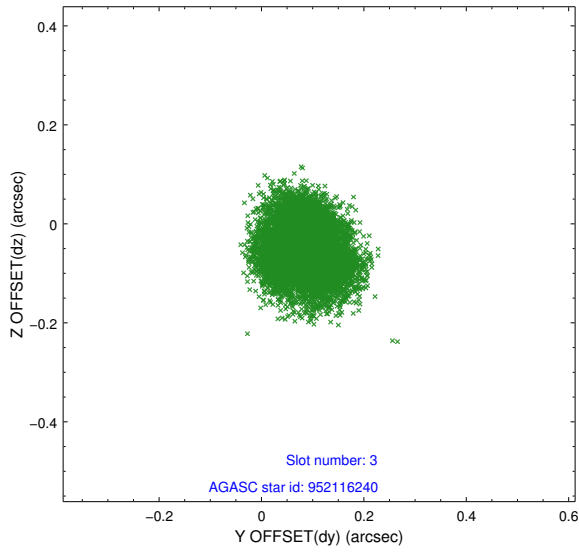


Slot Statistics

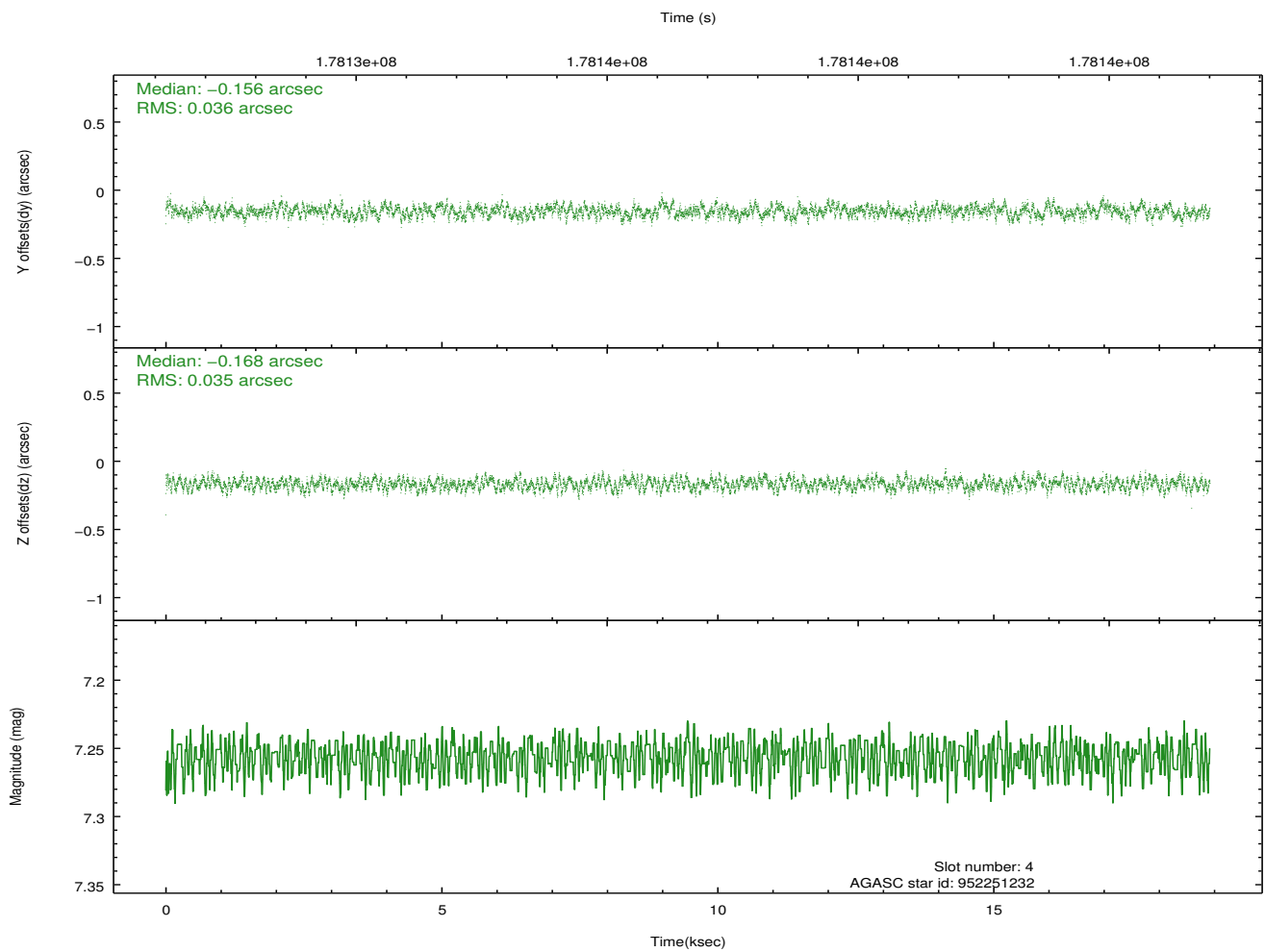
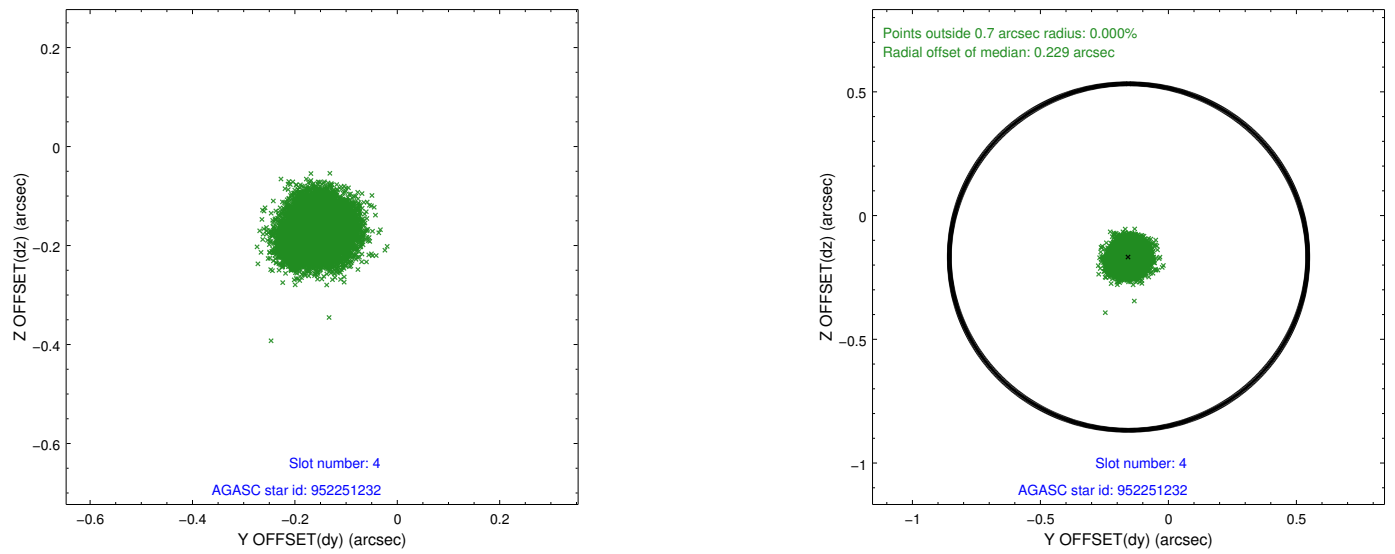
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	4615	0.030	-0.016	0.005	0.010	0.000000	0.000000	933.39	-833.98
1	FID	ACIS-I-5	7.23	4615	-0.090	0.066	0.005	0.010	0.000000	0.000000	-1814.73	1063.47
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	952116240	8.38	9226	0.078	-0.048	0.067	0.110	202.422973	-31.388320	-300.84	-657.11
4	GUIDE	952251232	7.26	9230	-0.156	-0.168	0.055	0.083	202.949910	-31.055331	-2197.42	30.87
5	GUIDE	952255936	9.43	9225	0.035	0.125	0.092	0.153	203.223088	-31.593032	-1043.39	1797.82
6	GUIDE	952256016	9.30	9226	0.066	0.136	0.075	0.123	202.982591	-31.594858	-632.19	1185.60
7	GUIDE	952646080	7.72	9229	-0.029	-0.042	0.054	0.086	202.214424	-32.002598	1892.00	42.00

2.4 Star Slots

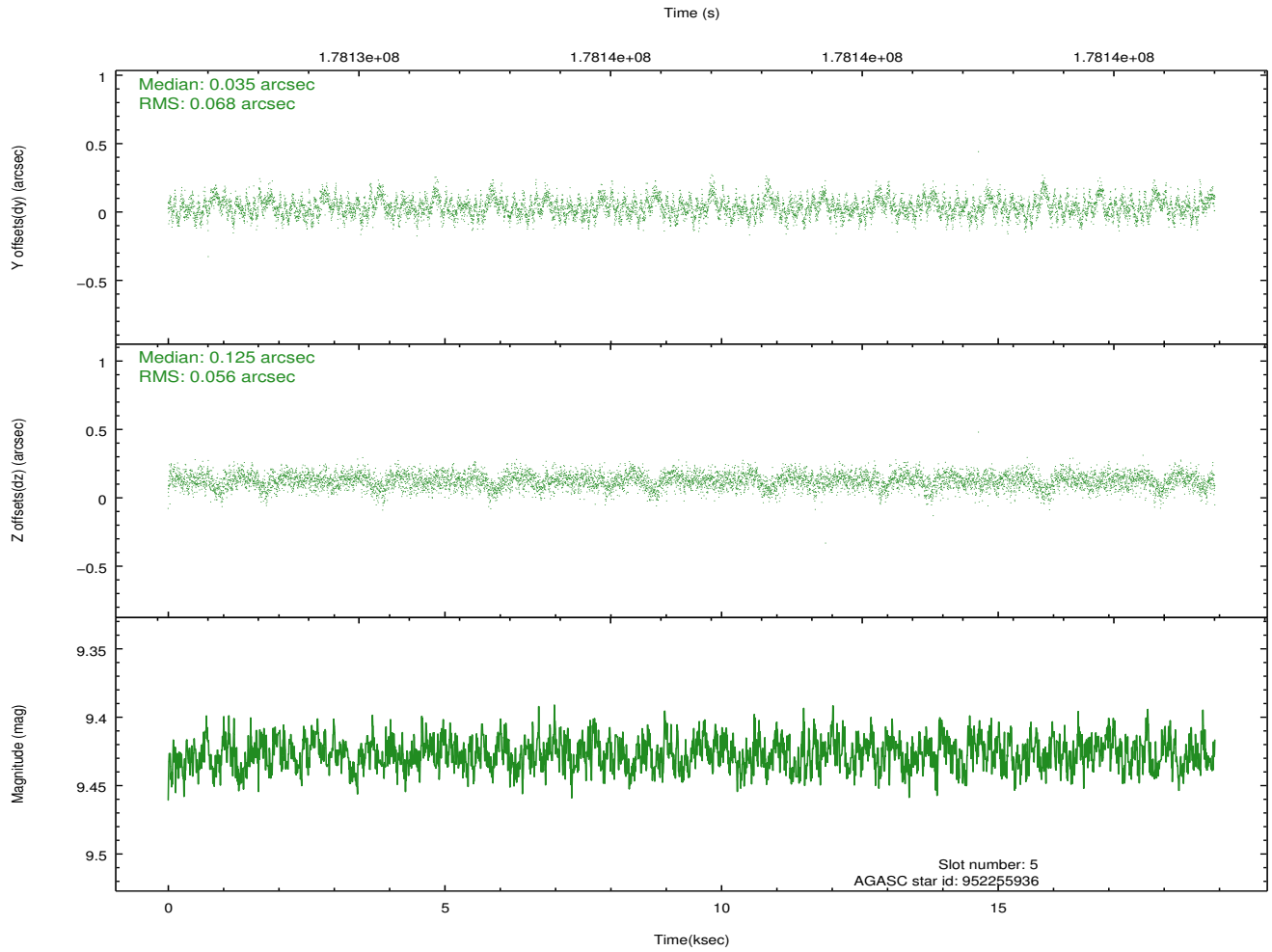
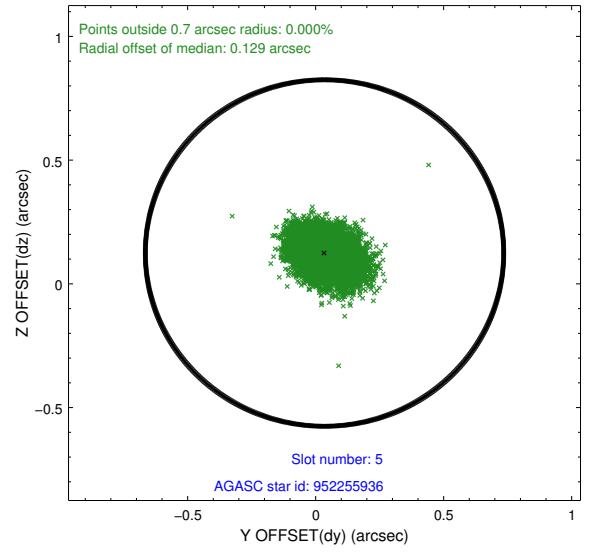
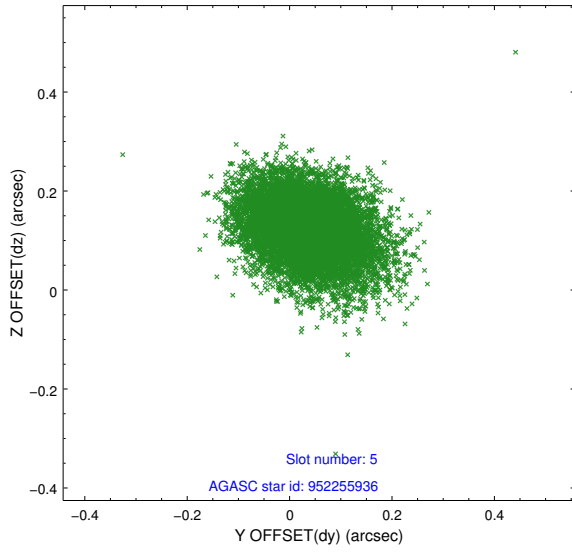
2.4.1 Slot 3



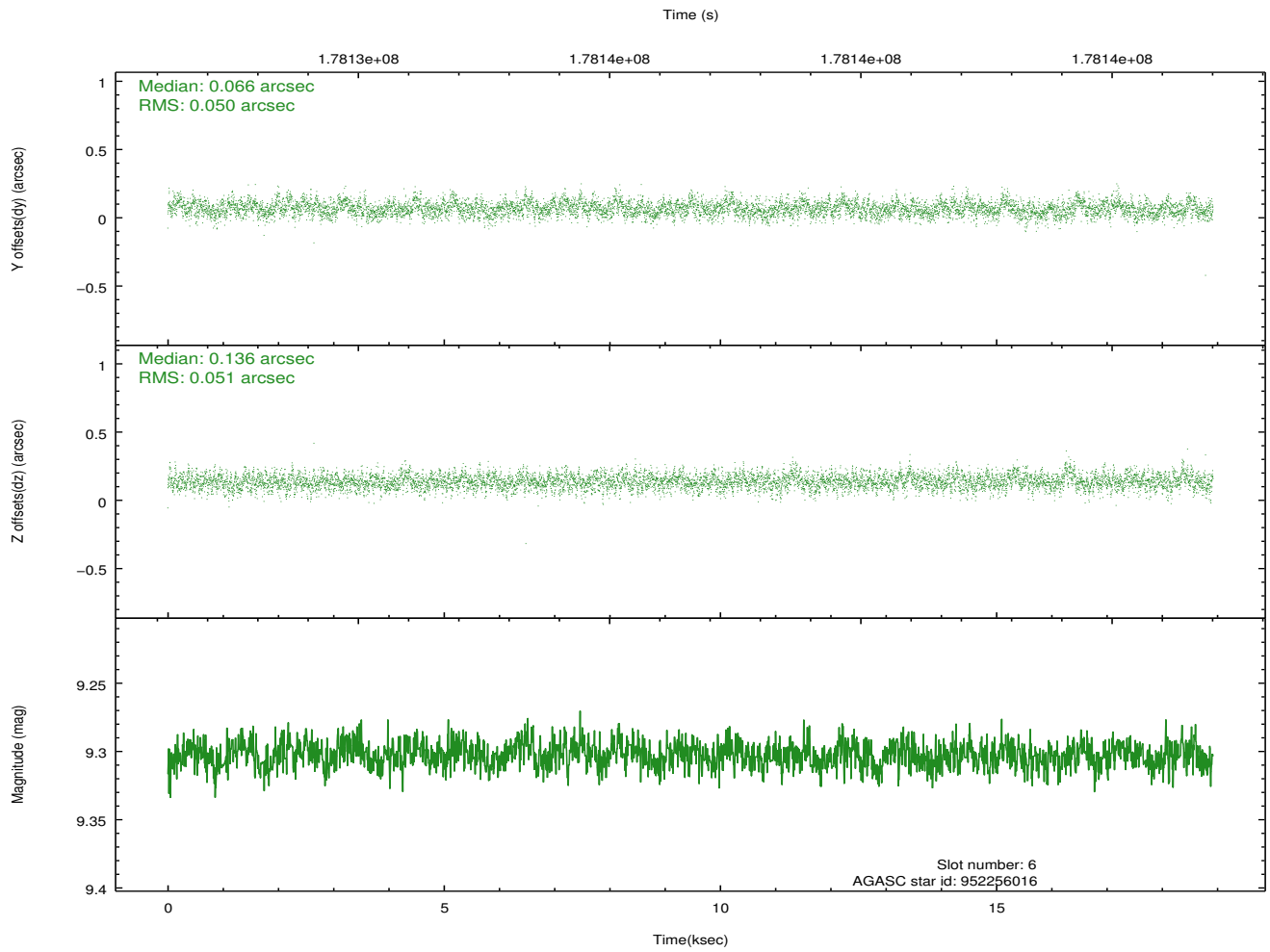
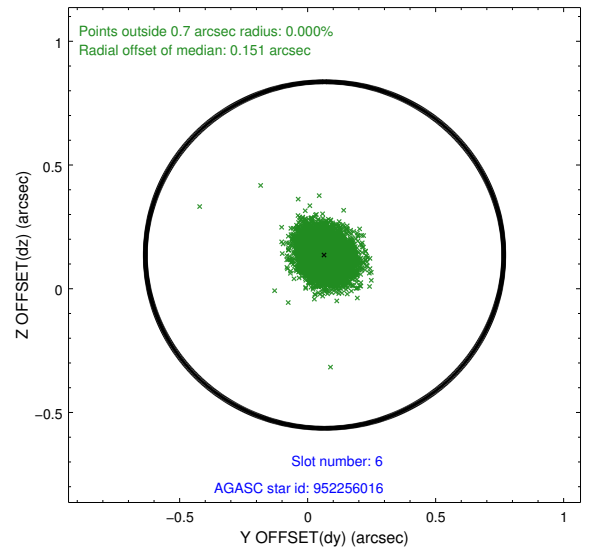
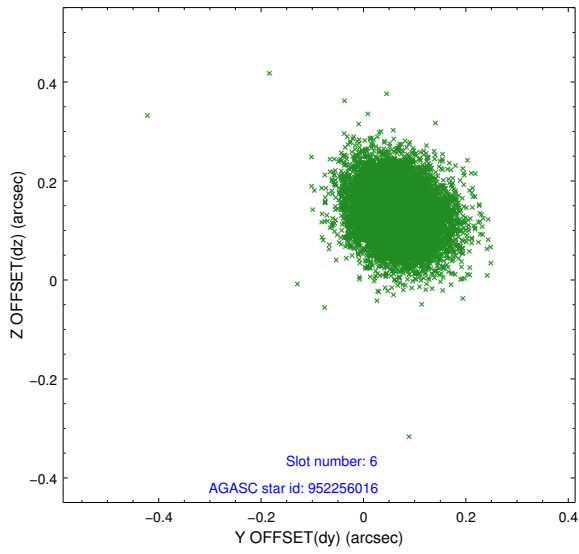
2.4.2 Slot 4



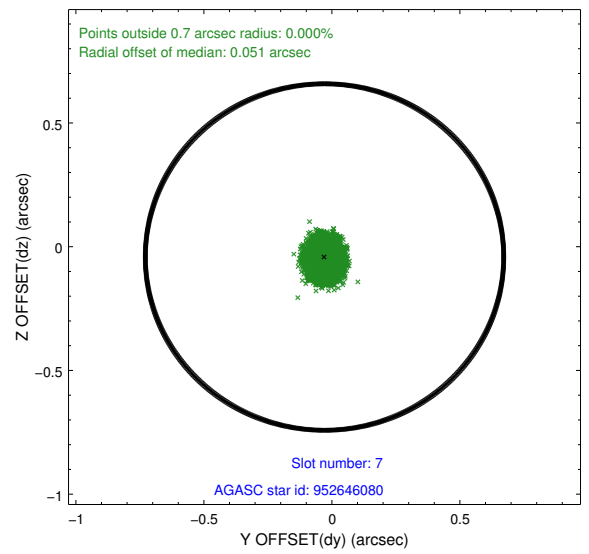
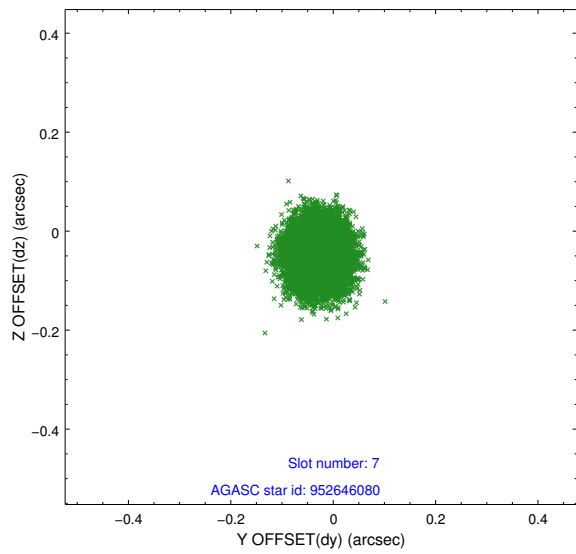
2.4.3 Slot 5



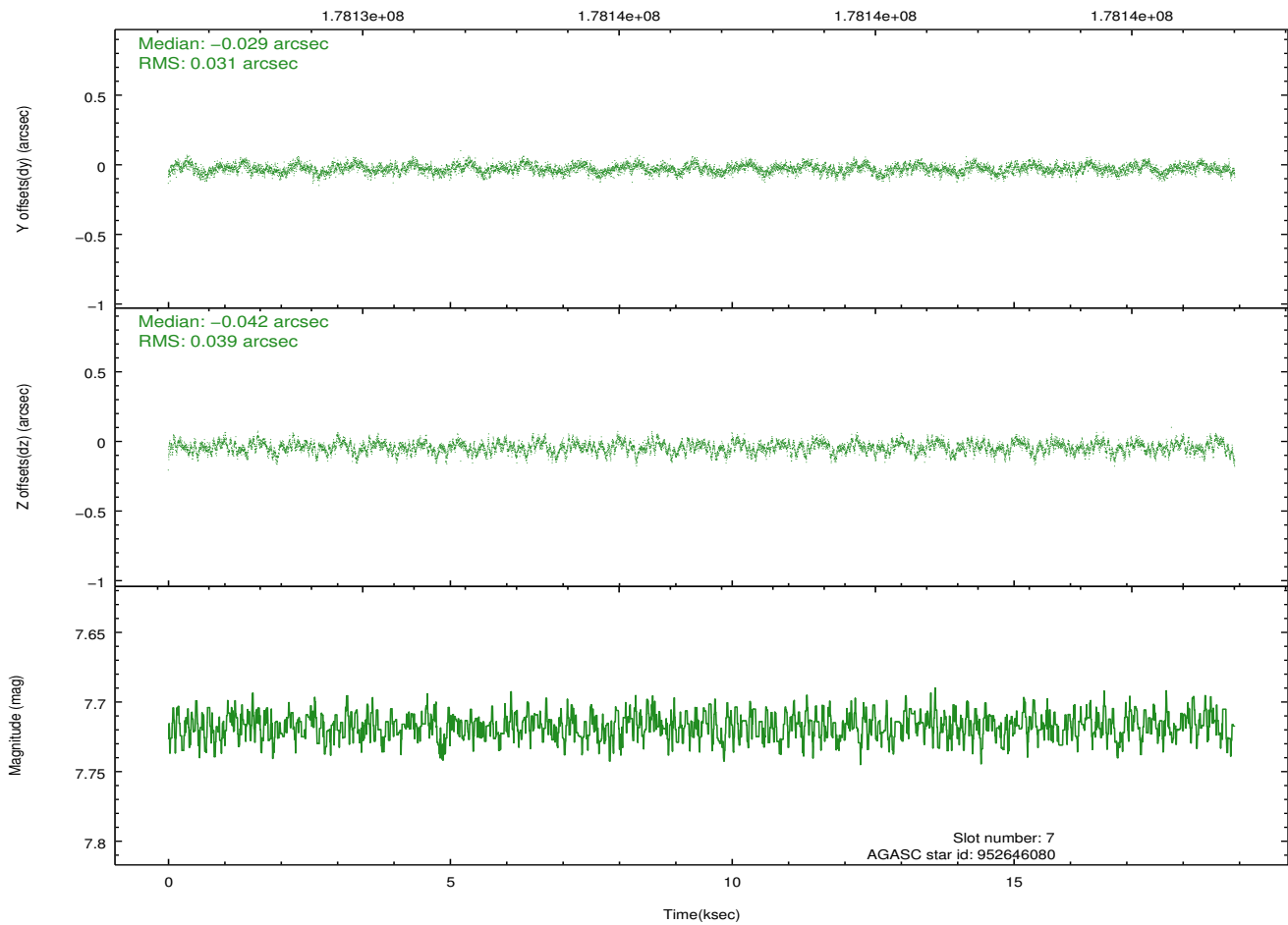
2.4.4 Slot 6



2.4.5 Slot 7

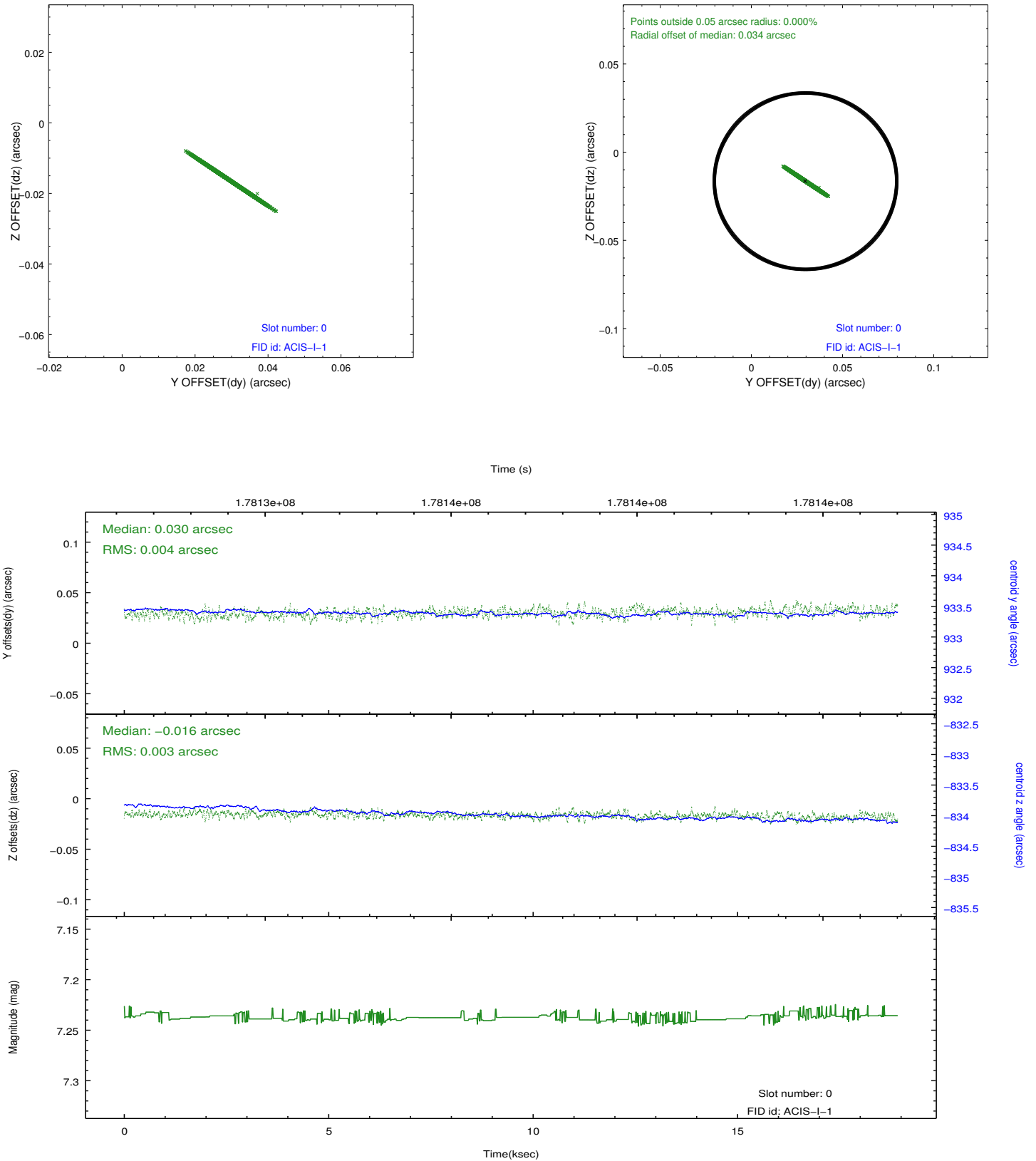


Time (s)

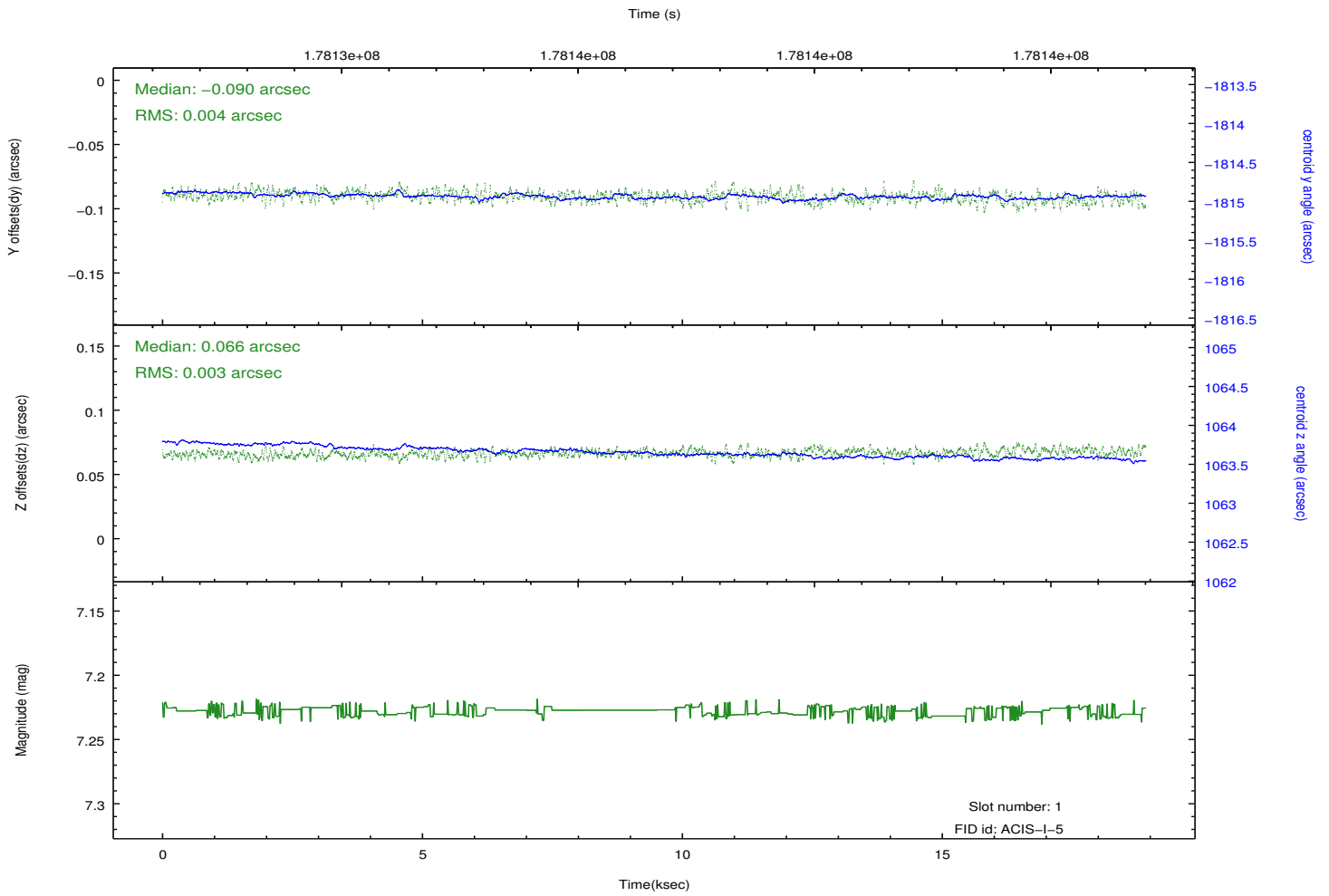
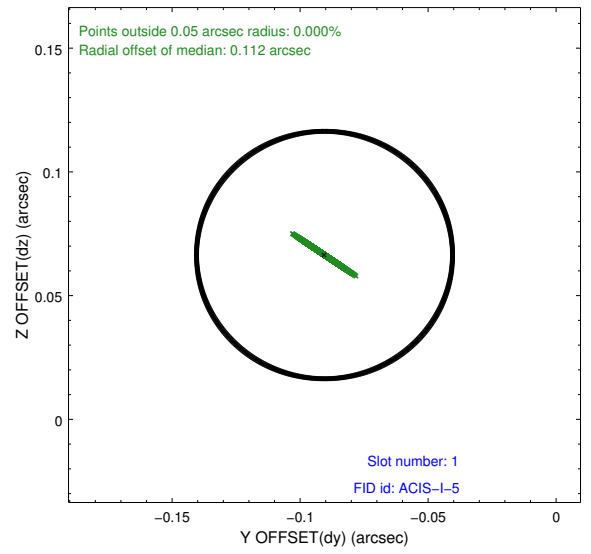
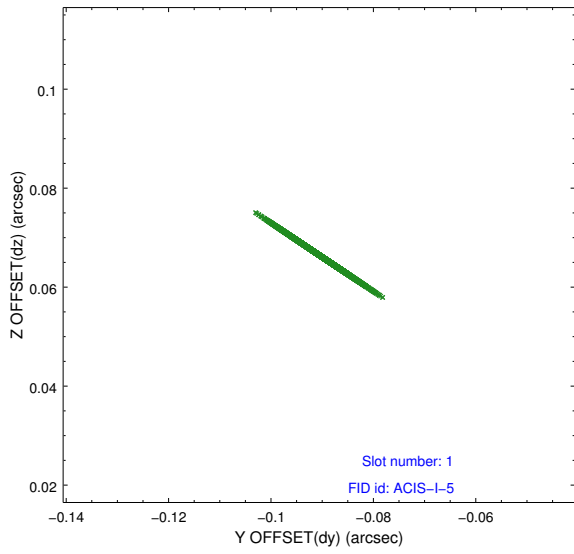


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.615

A.2 Comments

The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.