

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21593 - L2 Version 1
Chandra X-Ray Center

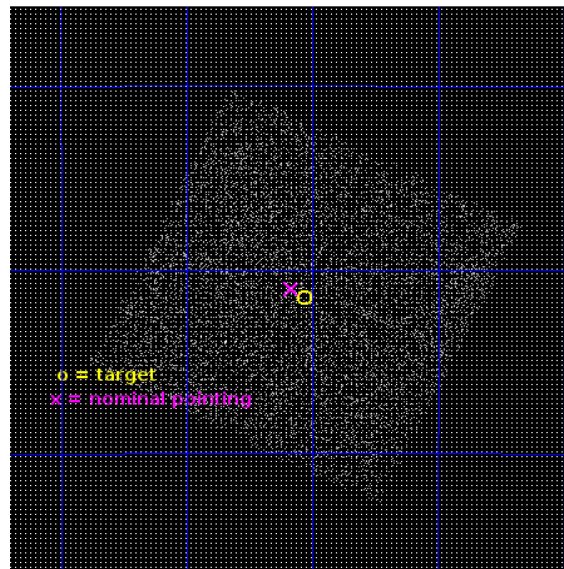
L2 Processing Date : Jul 3 2019

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1 Front

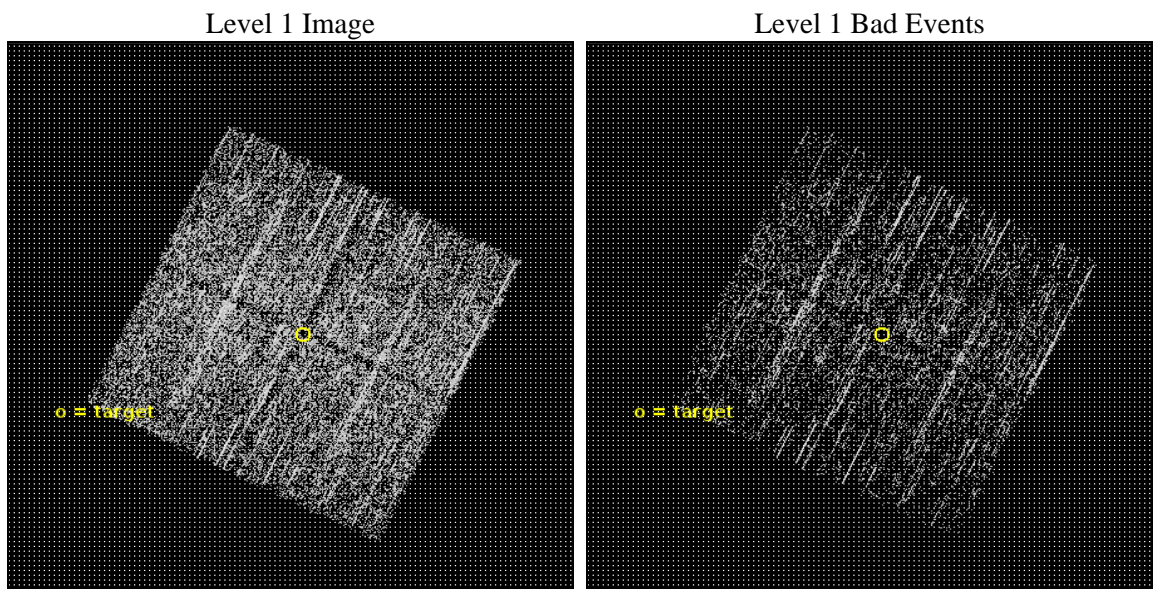
seq_num	300425	Sequence number
obs_id	21593	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.75767	Observer's specified target RA [deg]
dec_targ	-28.69182	Observer's specified target Dec [deg]
ra_nom	267.77094029813	Nominal RA [deg]
dec_nom	-28.68373169531	Nominal Dec [deg]
roll_nom	296.2150801685	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.0921547413	Sum of GTIs [s]
livetime	1883.1615260226	Livetime [s]
ontime0	1908.0511147976	Sum of GTIs [s]
ontime1	1908.0921547413	Sum of GTIs [s]
ontime2	1908.1331948042	Sum of GTIs [s]
ontime3	1908.1742347479	Sum of GTIs [s]
l2events	6582	Number of level 2 events



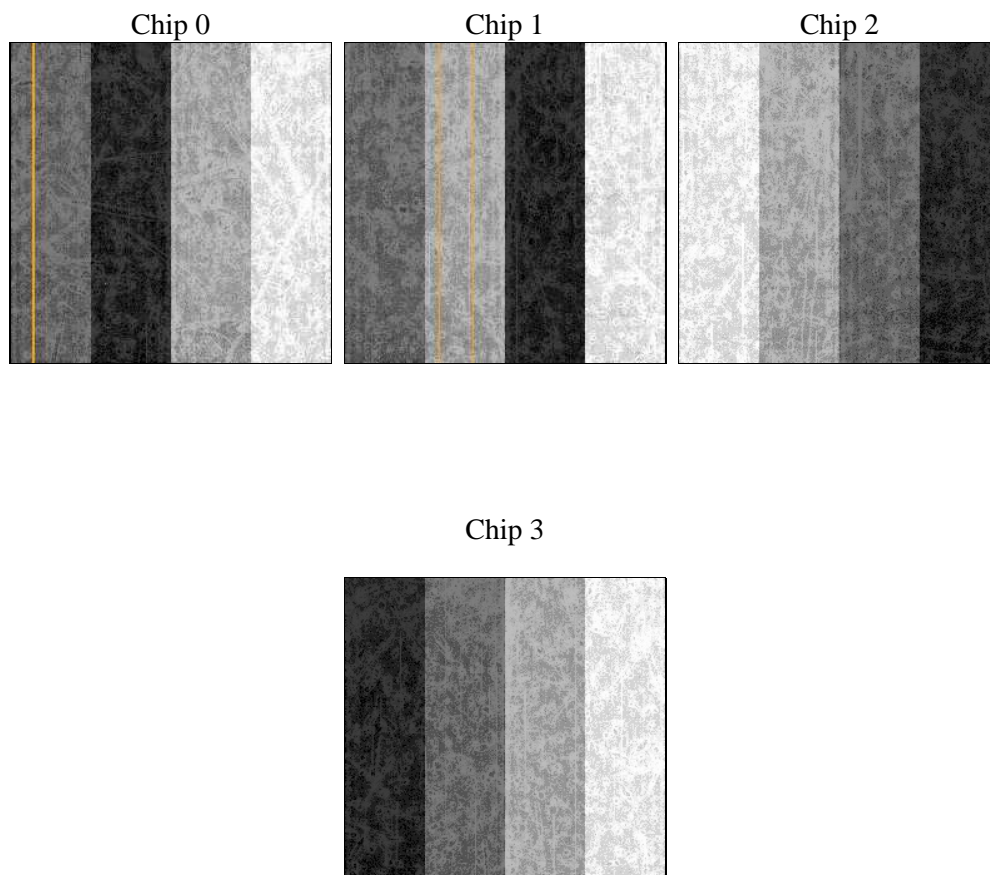
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.0921547413	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.0511147976	Sum of GTIs [s]
date	2019-07-03T20:55:59	Date and time of file creation	ontime1	1908.0921547413	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.1331948042	Sum of GTIs [s]
			ontime3	1908.1742347479	Sum of GTIs [s]
			l1events	56970	Number of level 1 events

2.1.4 Events

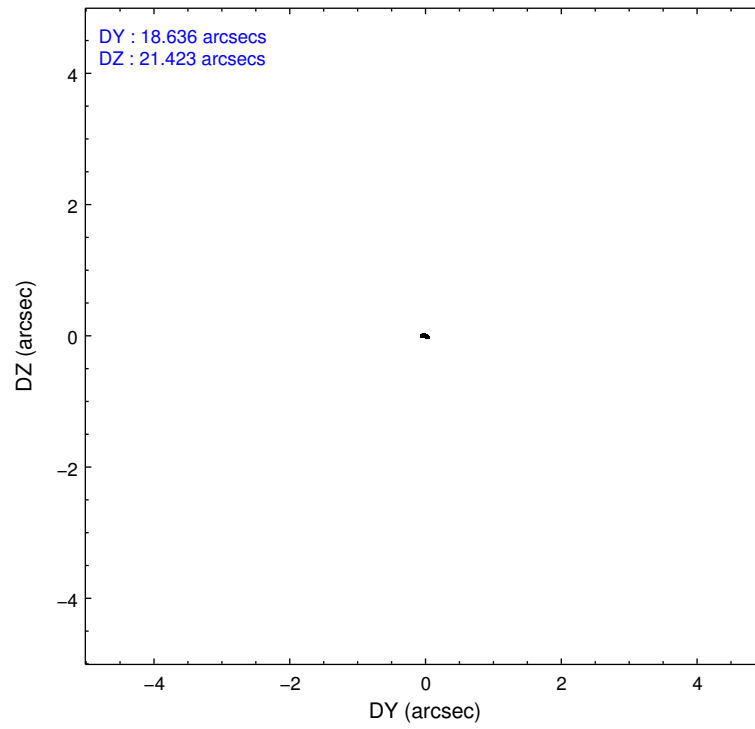
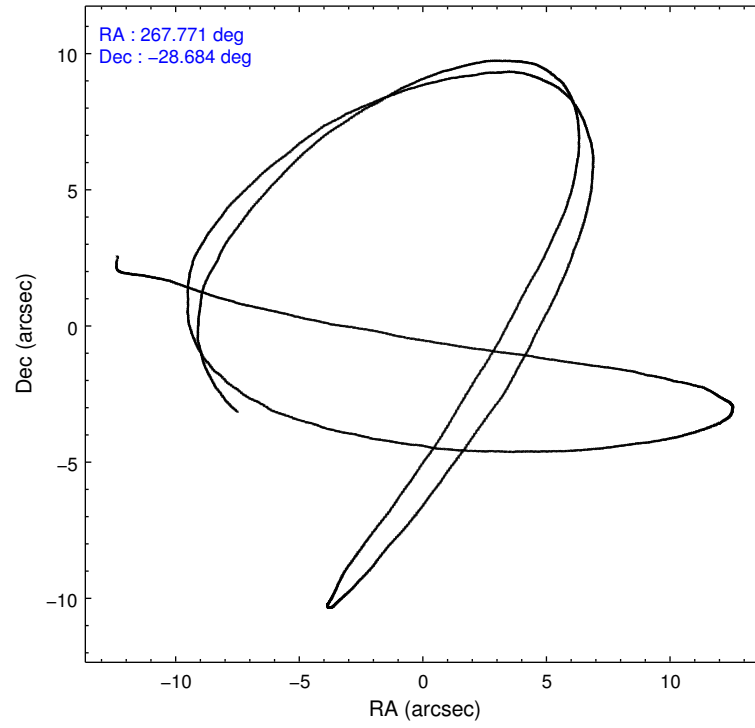
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	12962	14996	14729	14283
rejected events	11000	13021	12689	12518
rejected %	84%	86%	86%	87%

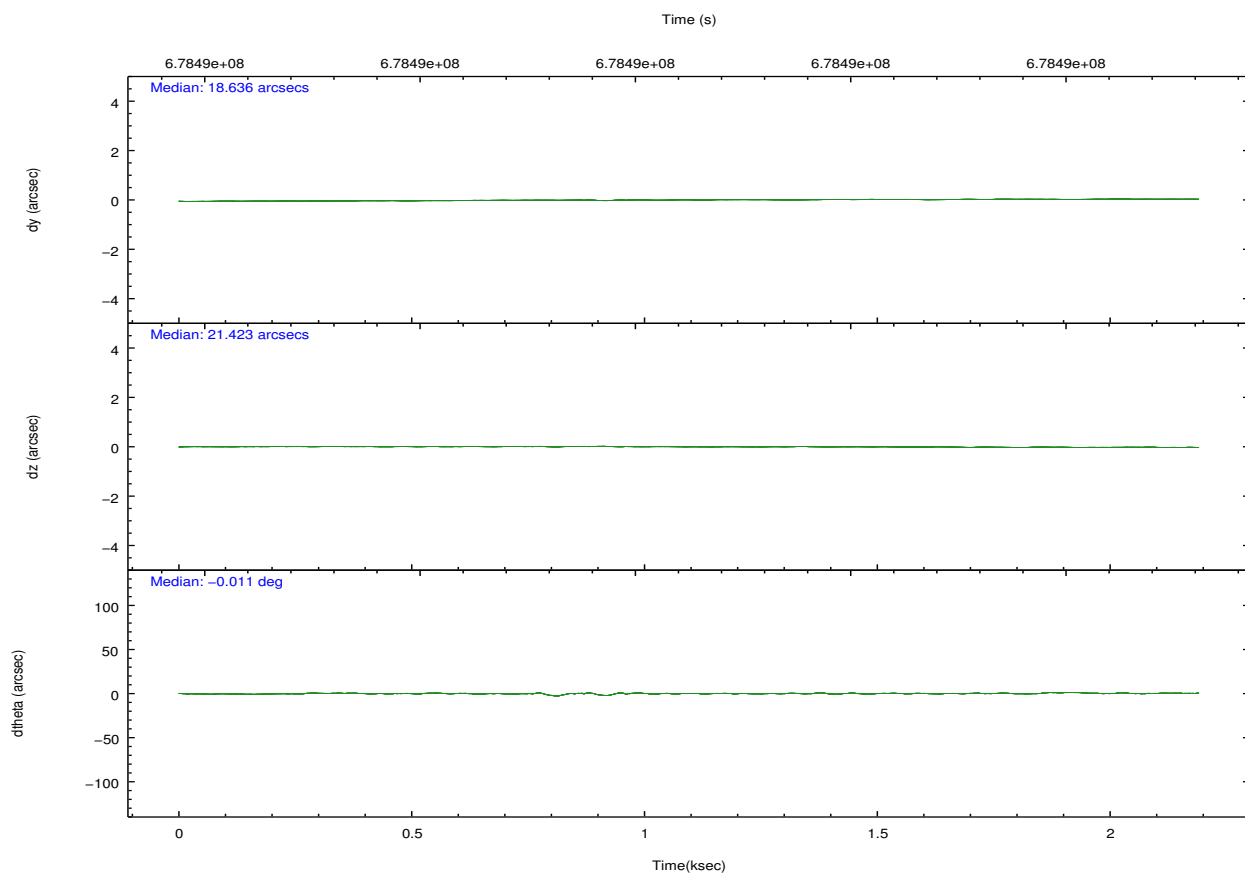
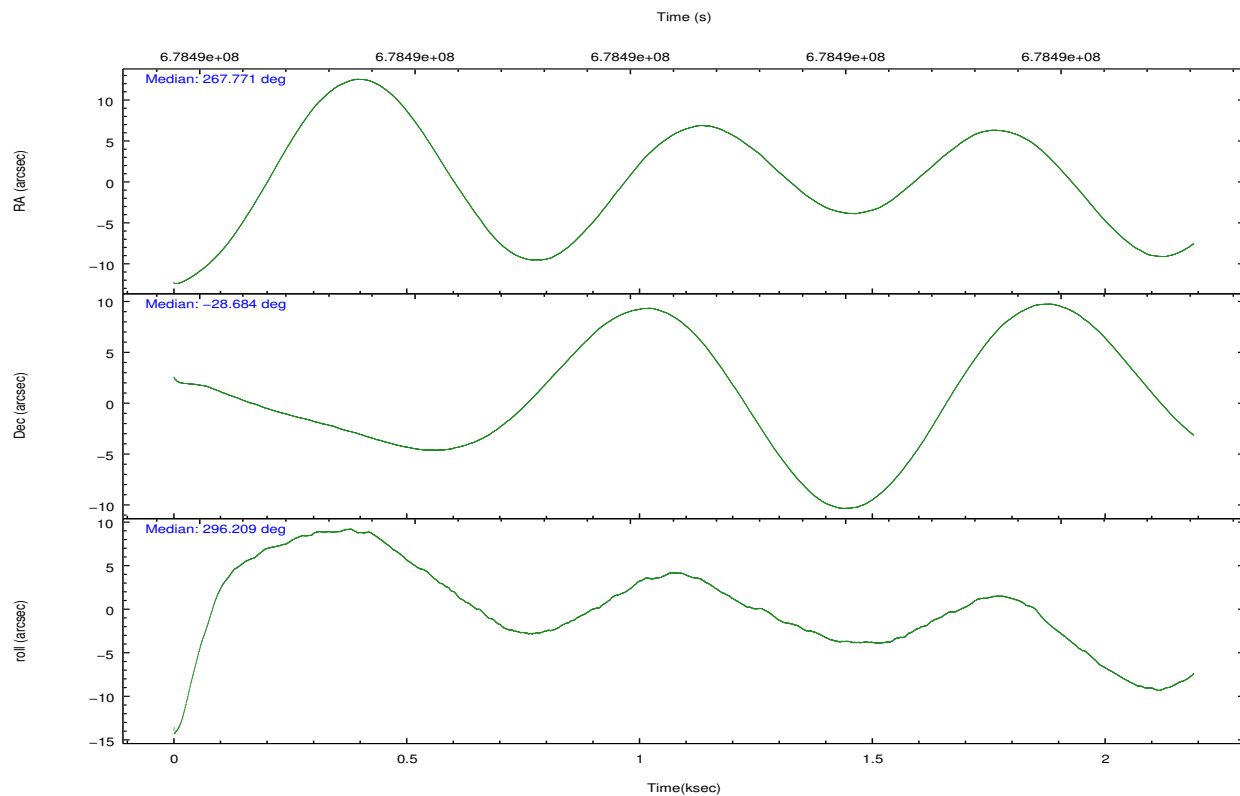
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	747	742	848	740
	5%	4%	5%	5%
grade 1 events	14	7	13	6
	0%	0%	0%	0%
grade 2 events	496	463	487	355
	3%	3%	3%	2%
grade 3 events	154	183	184	181
	1%	1%	1%	1%
grade 4 events	174	185	170	172
	1%	1%	1%	1%
grade 5 events	627	724	636	713
	4%	4%	4%	4%
grade 6 events	400	411	353	317
	3%	2%	2%	2%
grade 7 events	10350	12281	12038	11799
	79%	81%	81%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	267.744819	267.7709402981275	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.668534	-28.68373169530991	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993833	296.2150801685037	[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)	678485710.184000	678485334.22008			
Observation start date	2019-07-02T20:14:01	2019-07-02T20:08:54			
[s] Observation end time (MET)	678487710.184000	678487844.44523			
Observation end date	2019-07-02T20:47:21	2019-07-02T20:50:44			
Read mode	TIMED	TIMED			

2.3 Aspect



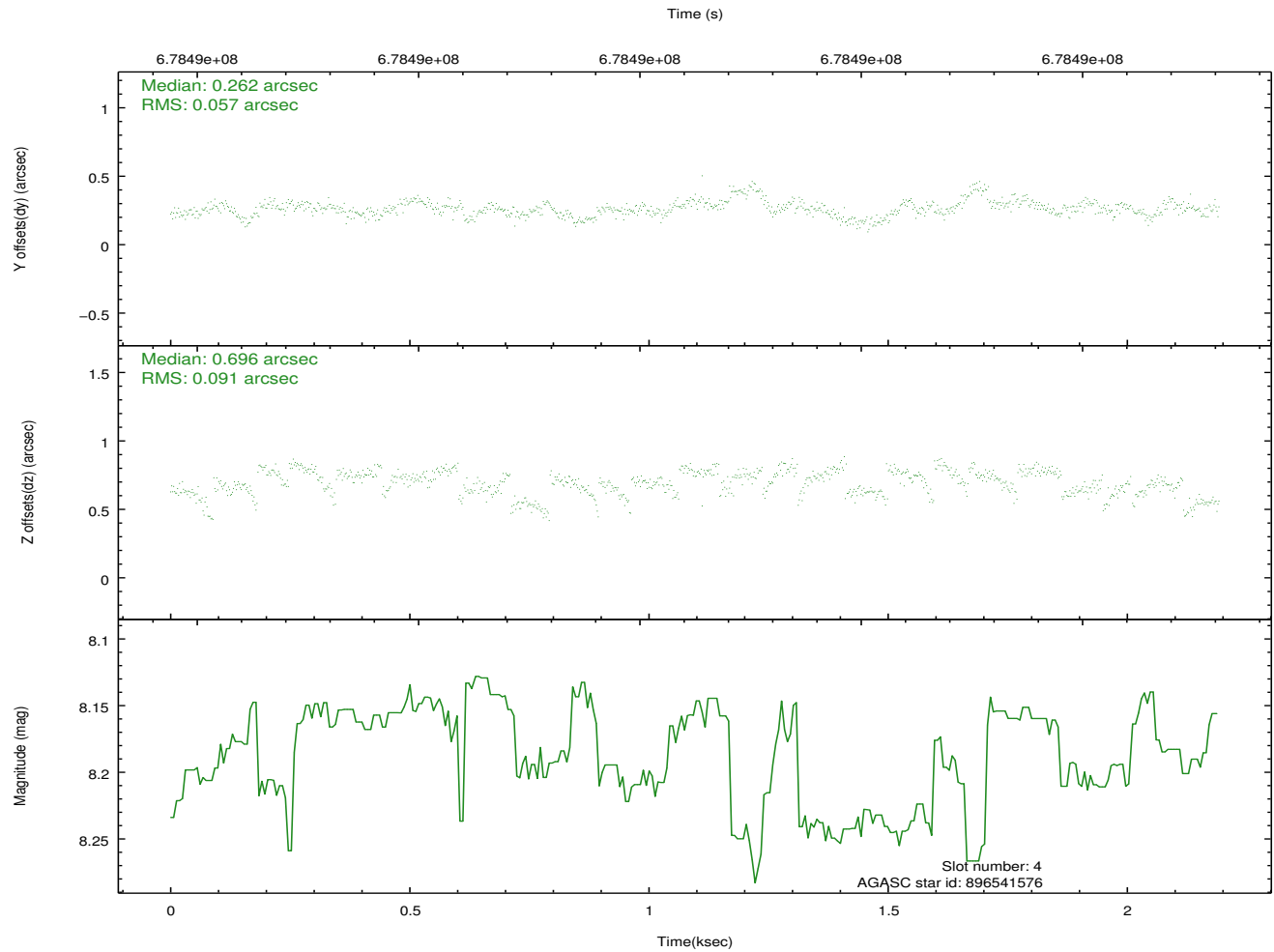
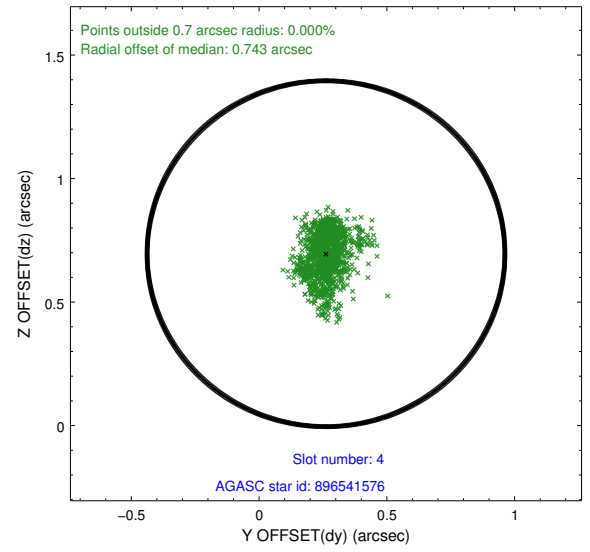
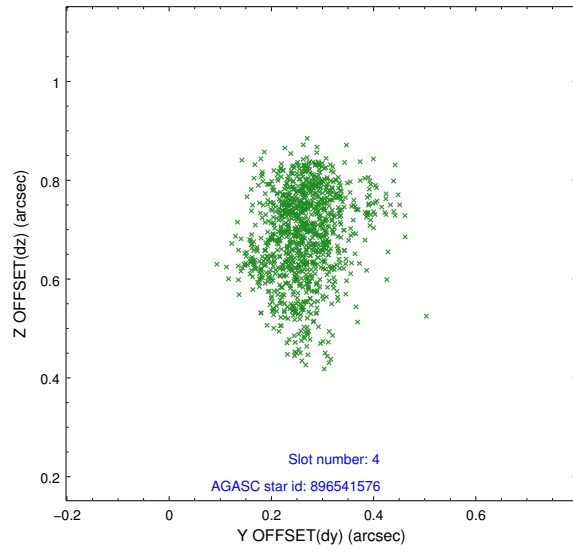


Slot Statistics

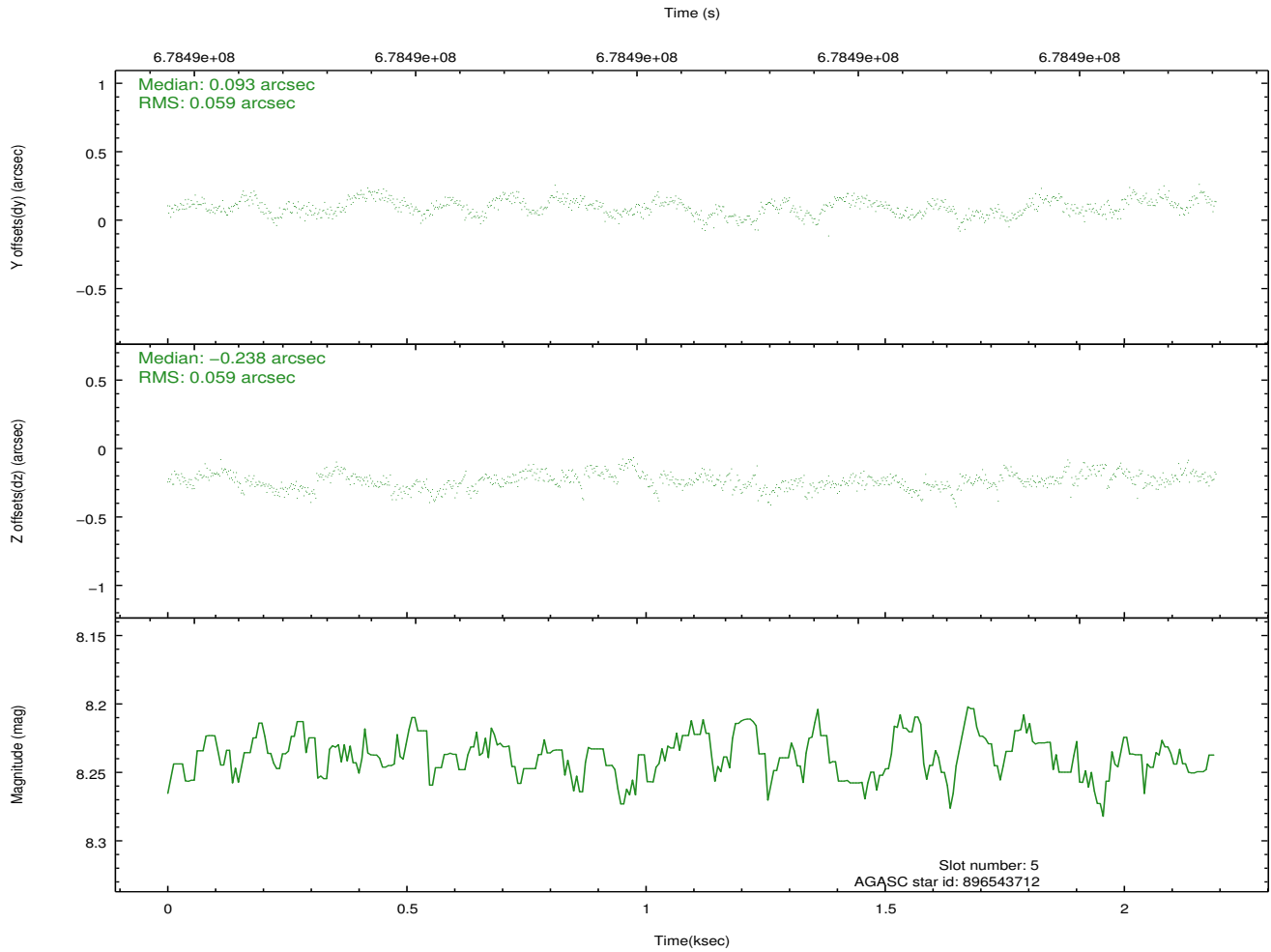
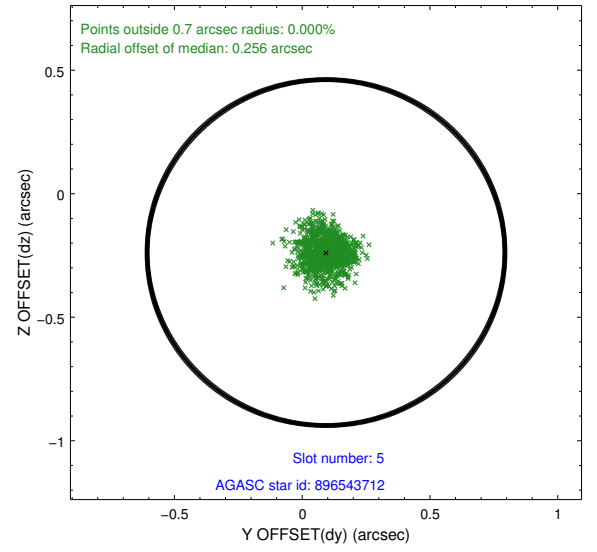
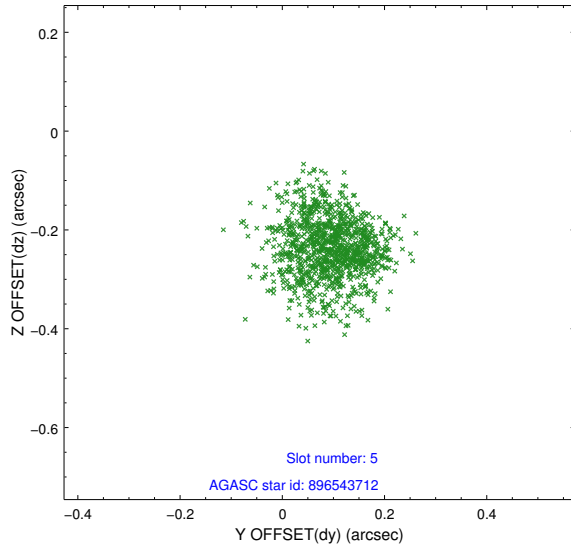
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.17	535	1.000	0.312	-0.128	0.008	0.015	0.000000	0.000000	921.17	-845
1	FID		ACIS-I-2	7.05	535	1.000	-0.137	-0.005	0.013	0.025	0.000000	0.000000	-771.73	-853
2	FID		ACIS-I-5	7.14	535	1.000	-0.268	0.205	0.009	0.016	0.000000	0.000000	-1829.34	1050
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	896541576	8.19	1067	1.000	0.262	0.696	0.114	0.189	267.051055	-28.762912	-646.85	-2118
5	GUIDE	used	896543712	8.24	1070	1.000	0.093	-0.238	0.090	0.142	267.764551	-28.659720	0.39	67
6	GUIDE	used	897712584	6.73	1070	1.000	-0.036	0.118	0.110	0.168	268.003029	-28.022394	-1729.52	1756
7	GUIDE	used	898238128	7.72	1069	1.000	-0.308	-0.557	0.129	0.184	268.450740	-28.688500	1046.84	1970

2.4 Star Slots

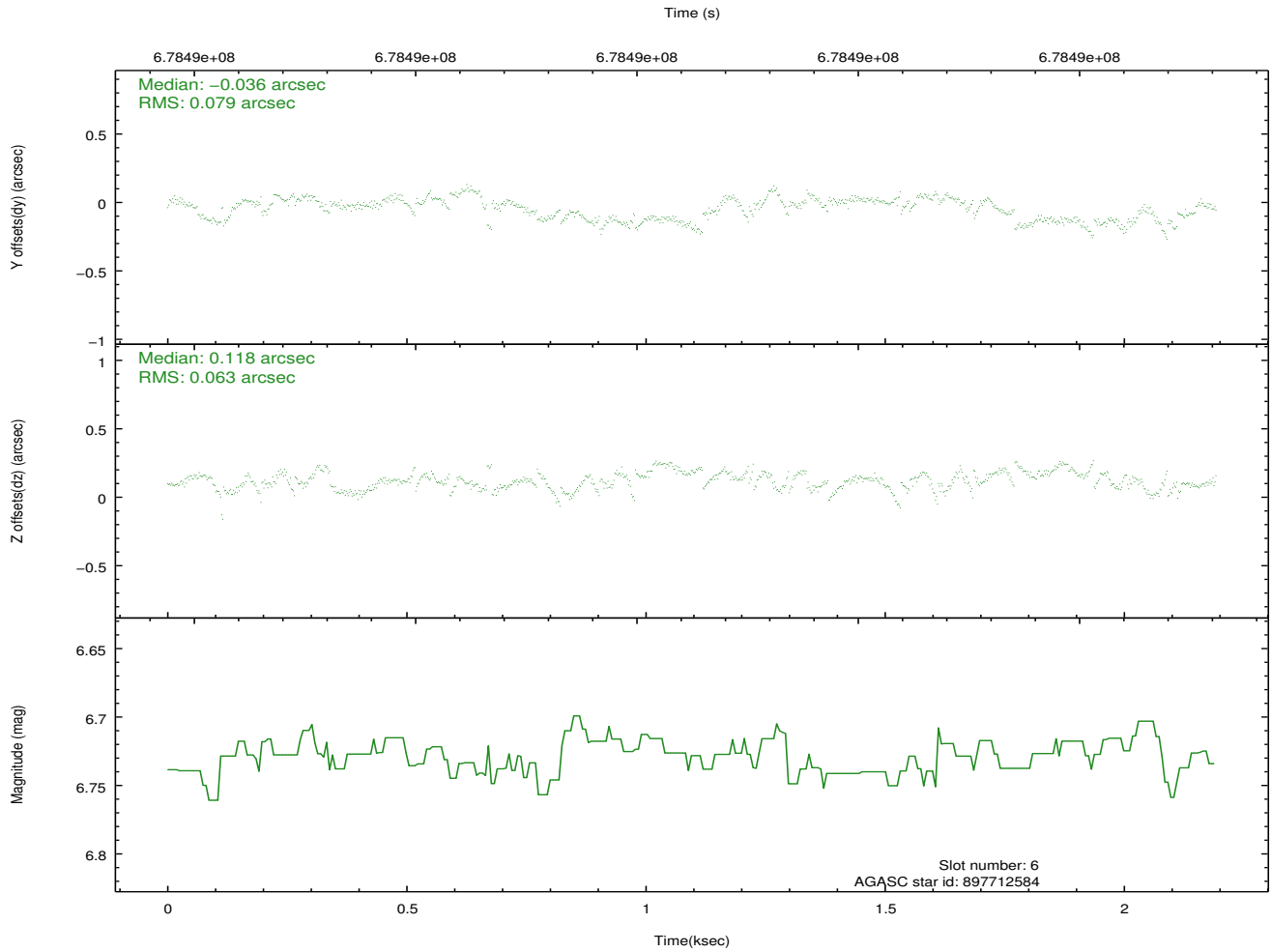
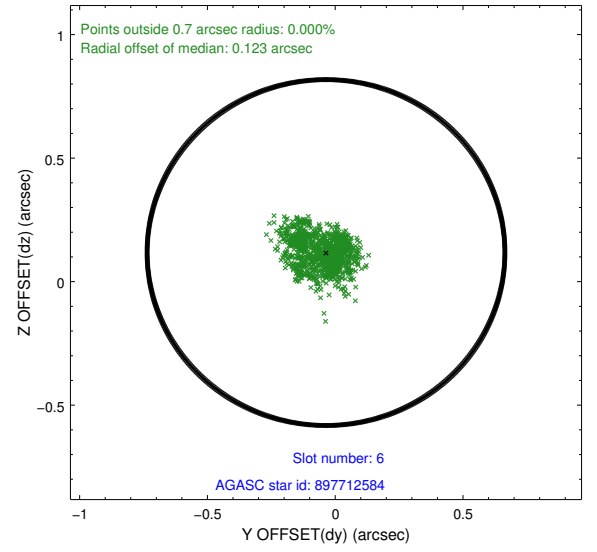
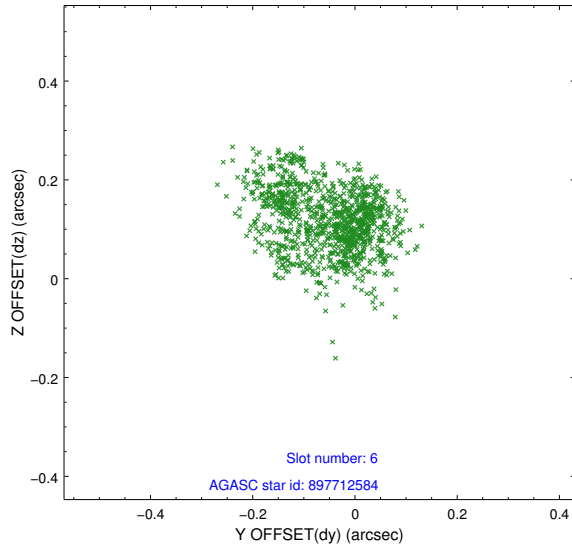
2.4.1 Slot 4



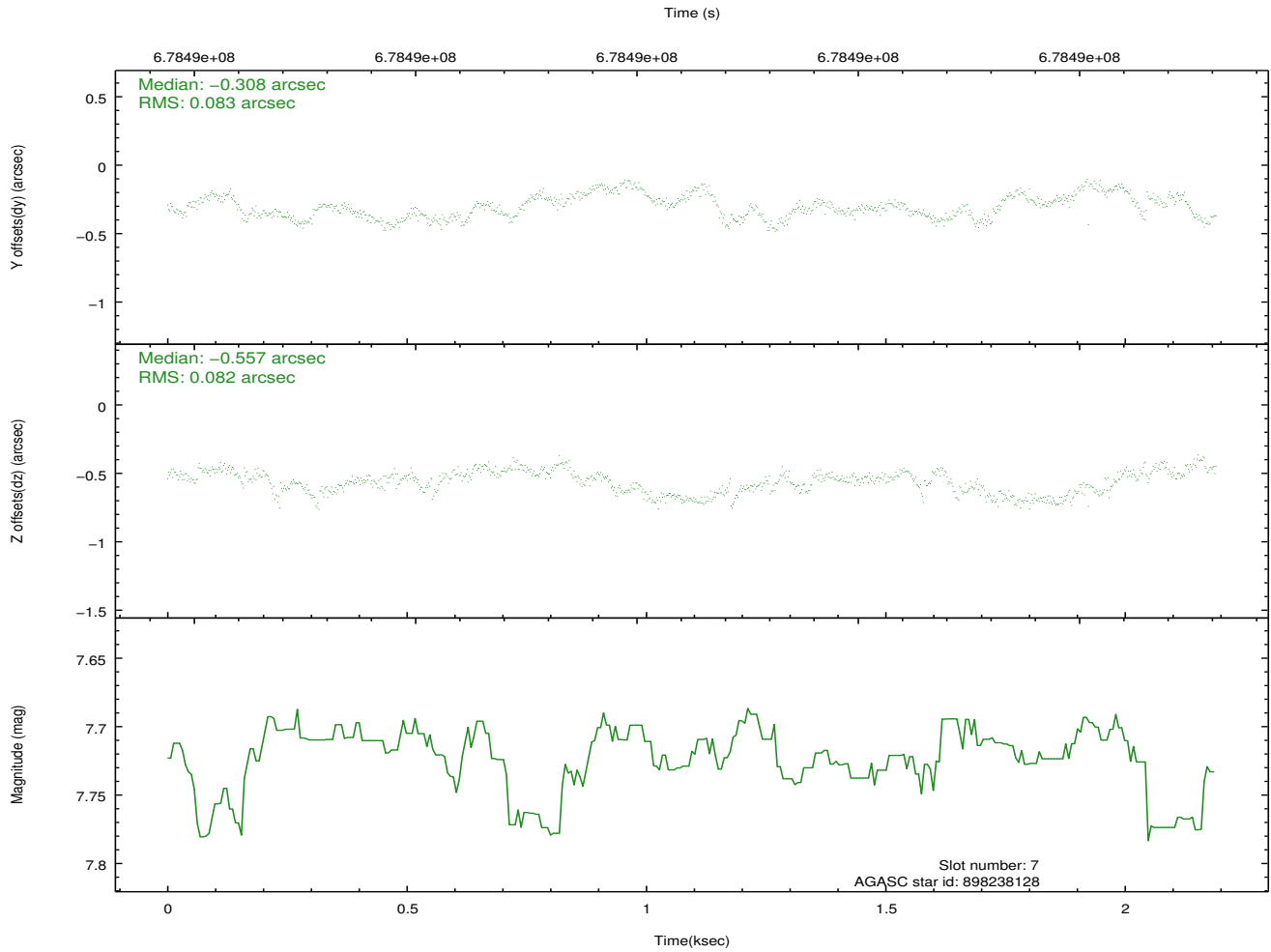
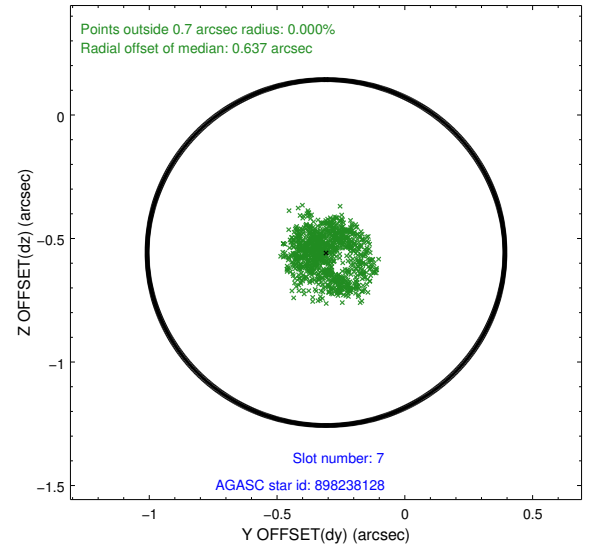
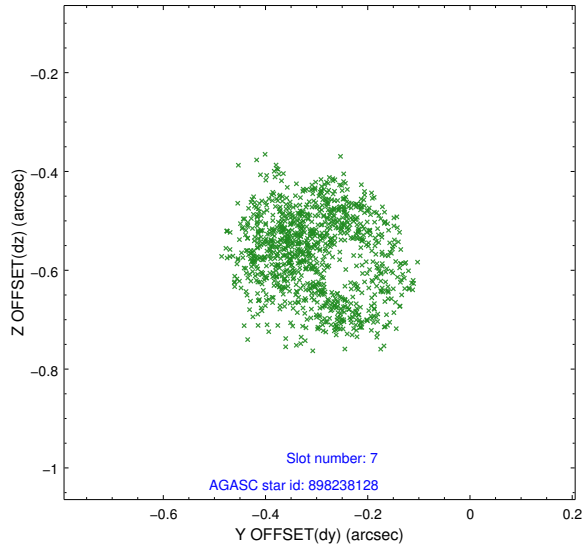
2.4.2 Slot 5



2.4.3 Slot 6

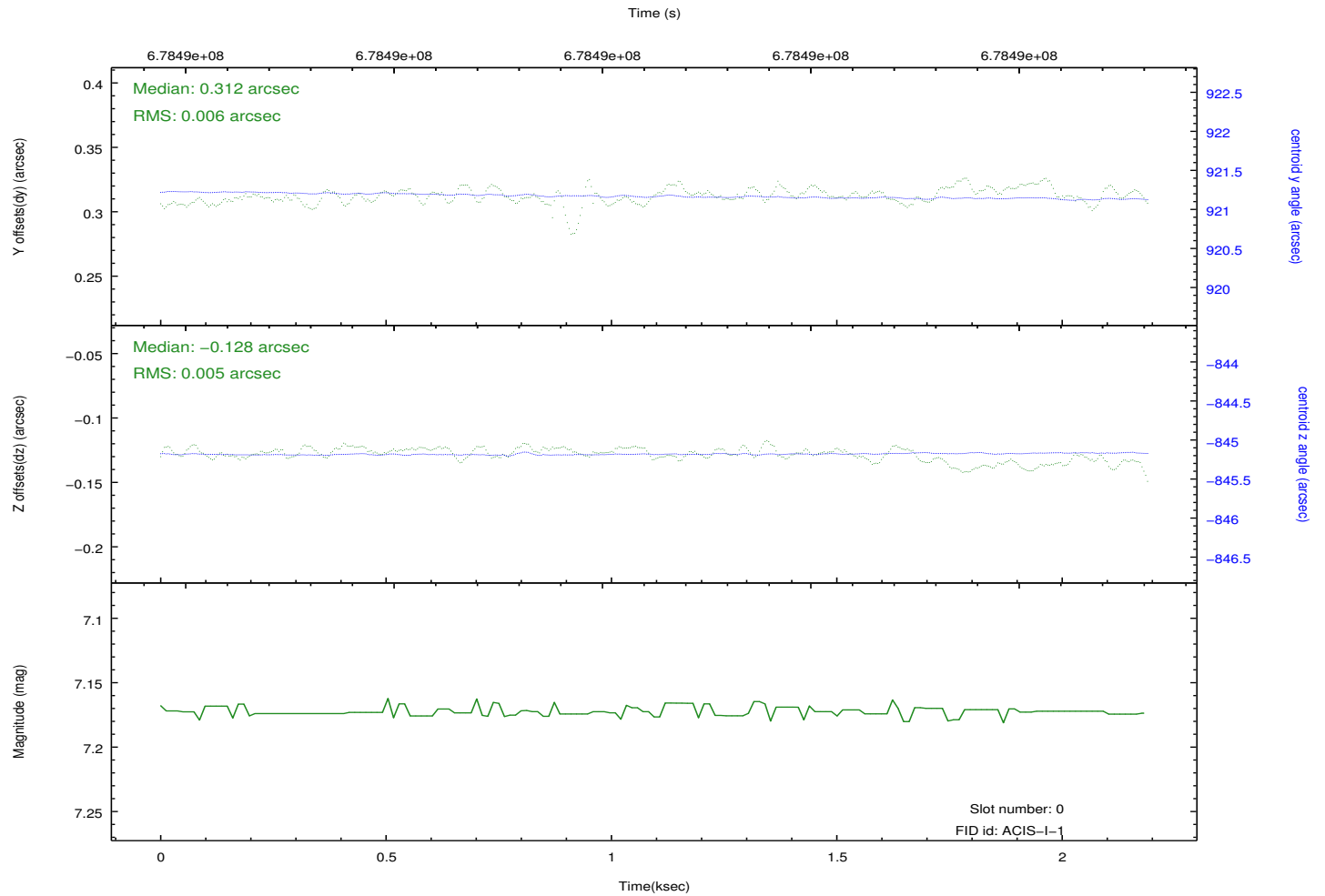
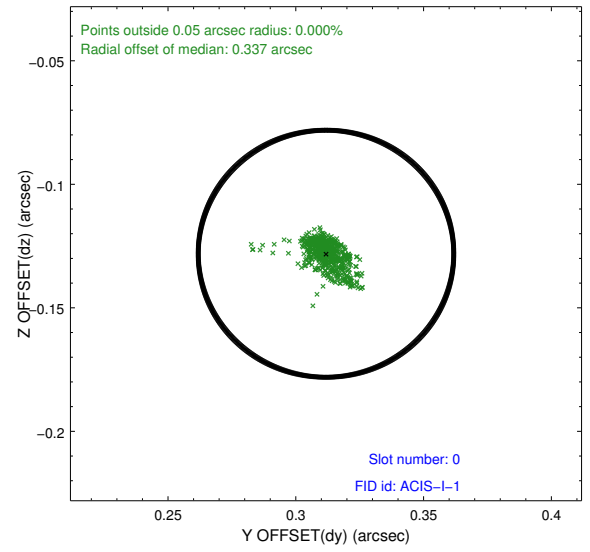
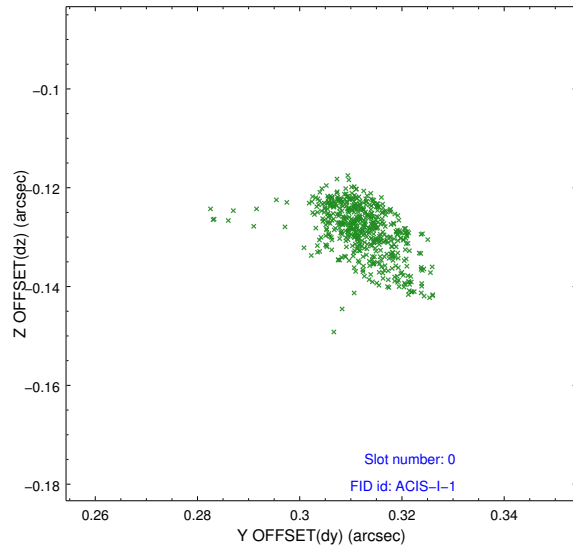


2.4.4 Slot 7

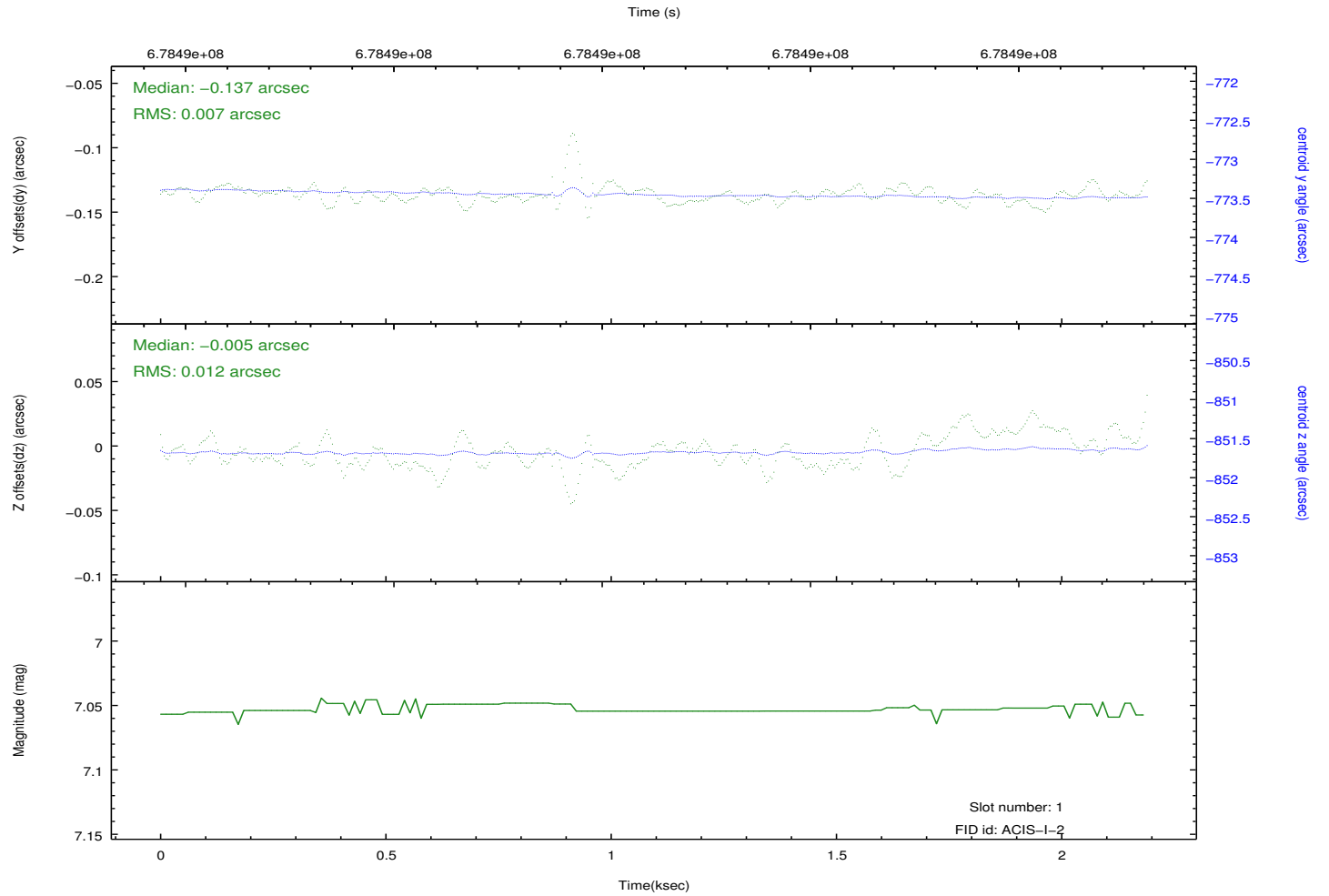
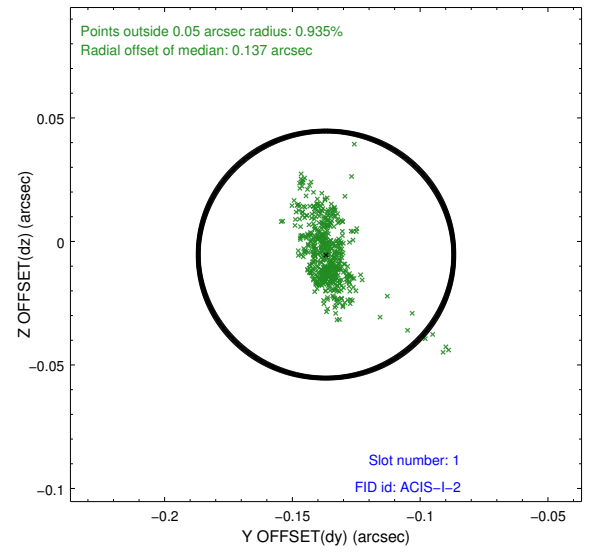
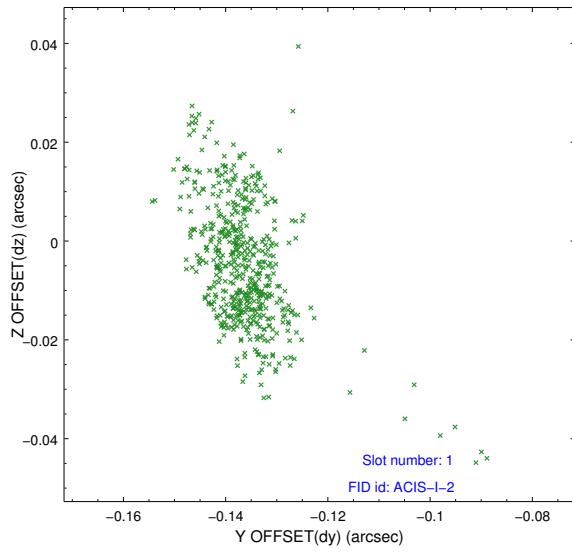


2.5 FID Slots

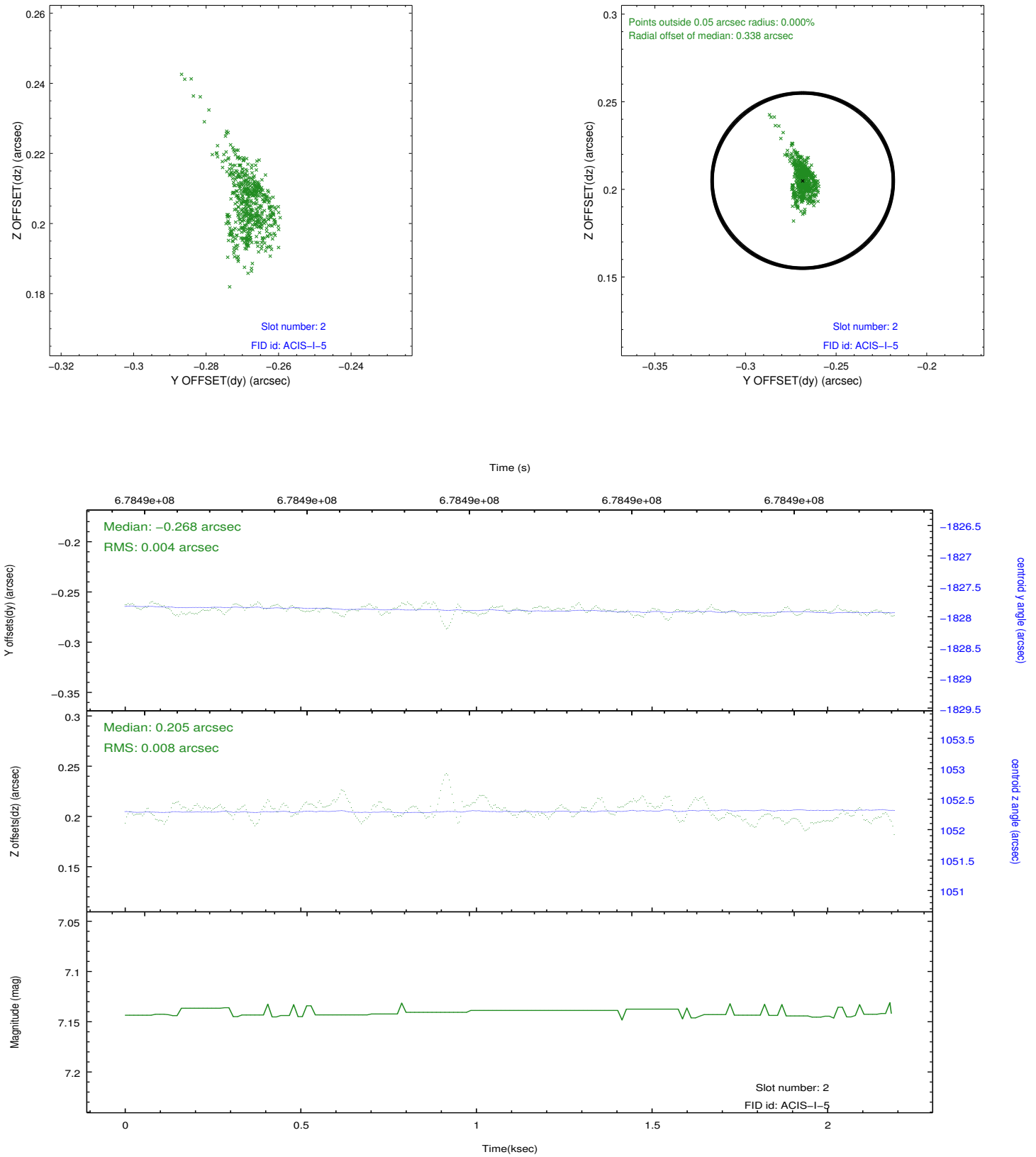
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9080921547413

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.