

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21723 - L2 Version 1
Chandra X-Ray Center

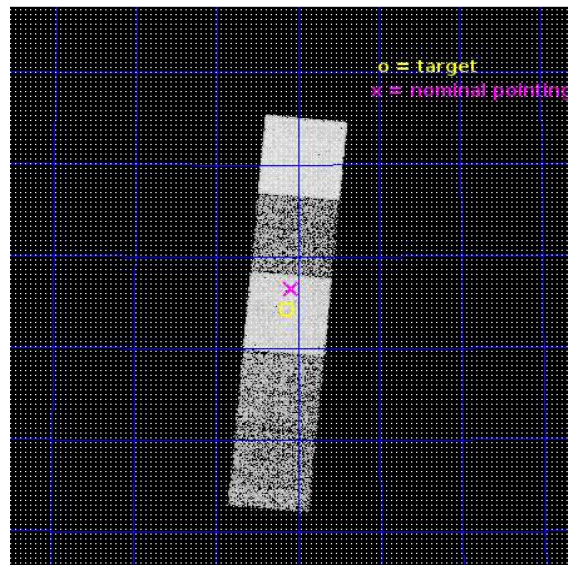
L2 Processing Date : Aug 27 2018

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1 Front

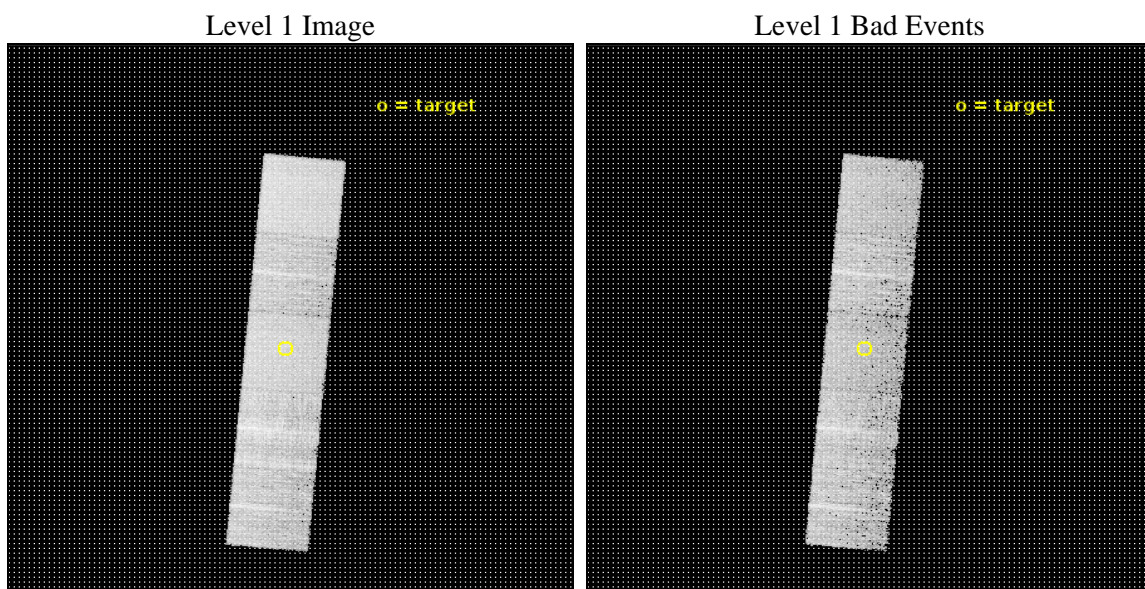
seq_num	100172	Sequence number
obs_id	21723	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	66.034669	Observer's specified target RA [deg]
dec_targ	55.237282	Observer's specified target Dec [deg]
ra_nom	66.02004048208	Nominal RA [deg]
dec_nom	55.274991892245	Nominal Dec [deg]
roll_nom	95.308885641986	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6175.2000476122	Sum of GTIs [s]
livetime	6094.516512874	Livetime [s]
ontime5	6175.2000476122	Sum of GTIs [s]
ontime6	6175.2000476122	Sum of GTIs [s]
ontime7	6175.2000476122	Sum of GTIs [s]
ontime8	6175.2000476122	Sum of GTIs [s]
ontime9	6175.2000476122	Sum of GTIs [s]
l2events	74803	Number of level 2 events



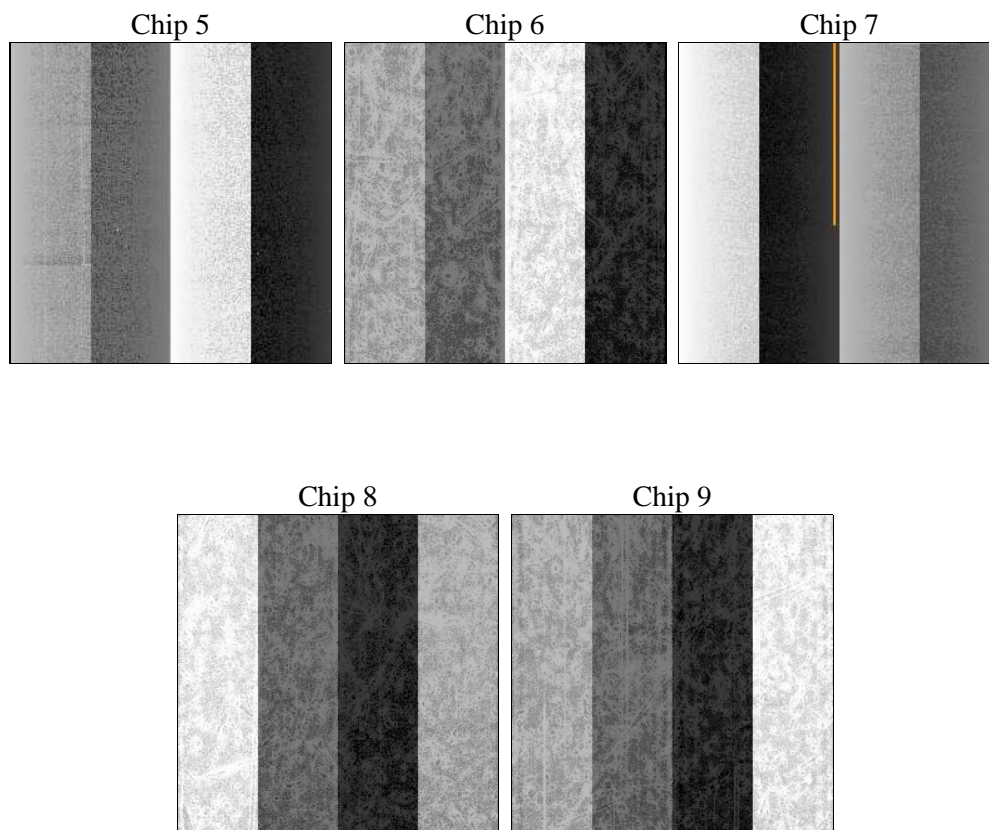
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	6175.2000476122	Sum of GTIs [s]
caldsver	4.7.8	 	ontime5	6175.2000476122	Sum of GTIs [s]
date	2018-08-27T05:23:07	Date and time of file creation	ontime6	6175.2000476122	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	6175.2000476122	Sum of GTIs [s]
			ontime8	6175.2000476122	Sum of GTIs [s]
			ontime9	6175.2000476122	Sum of GTIs [s]
			l1events	293947	Number of level 1 events

2.1.4 Events

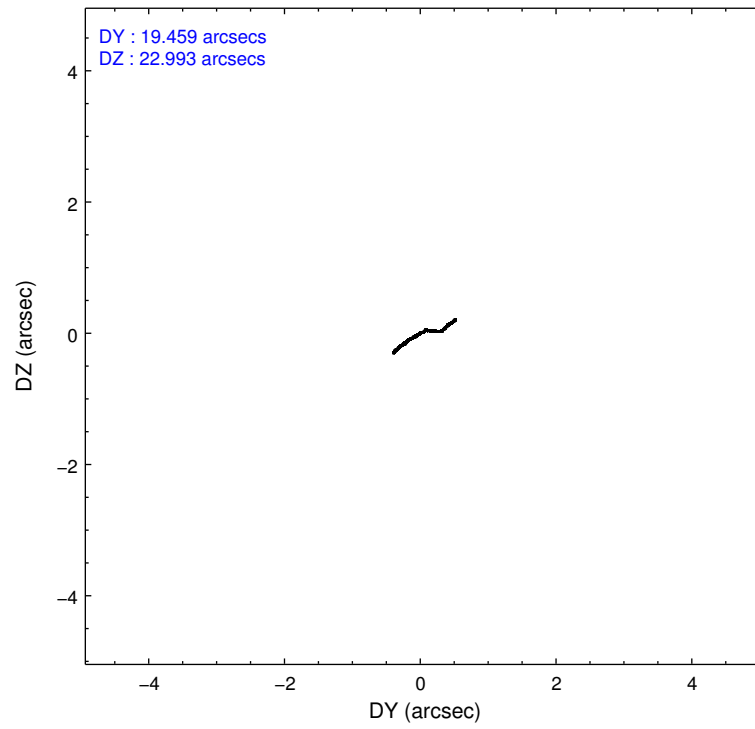
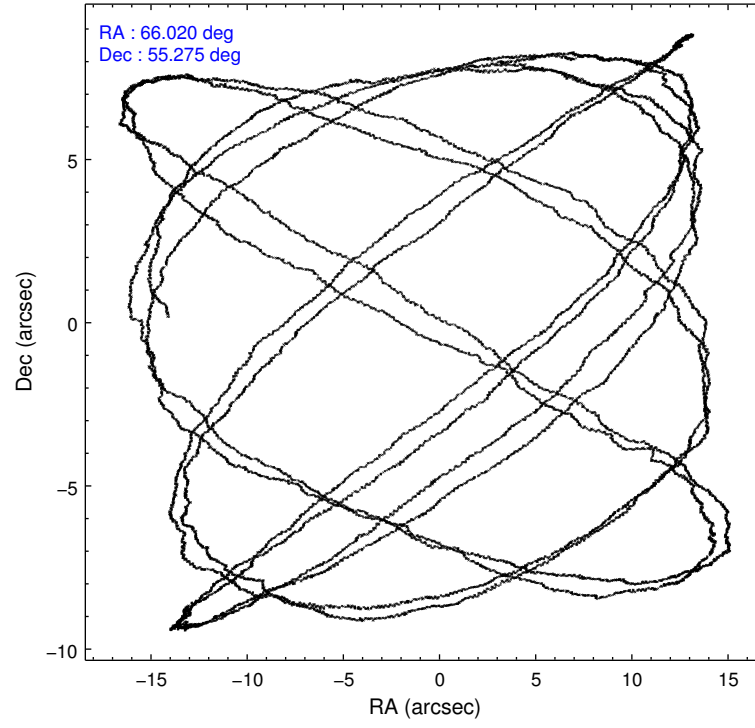
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	73647	49395	61572	62274	47059
rejected events	39563	44183	34961	45033	41312
rejected %	53%	89%	56%	72%	87%

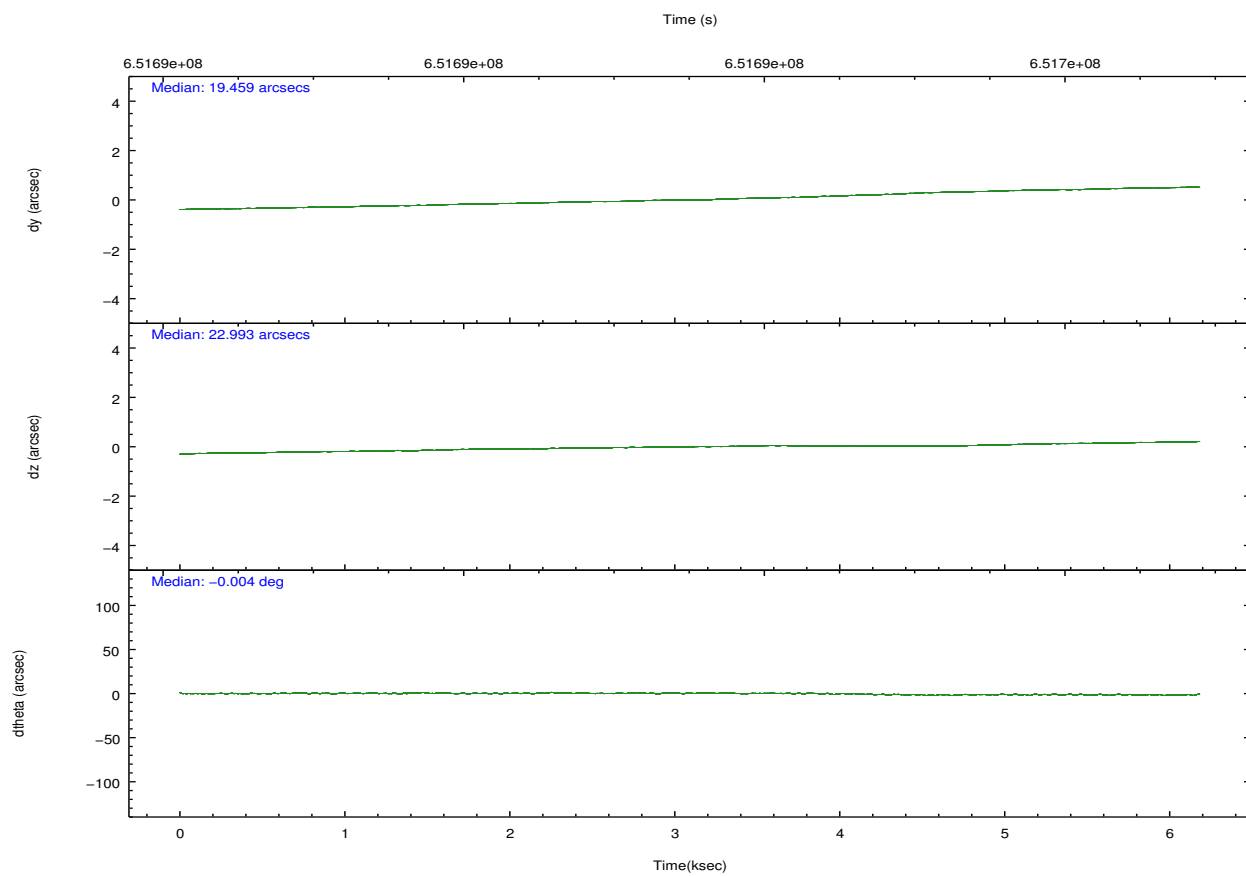
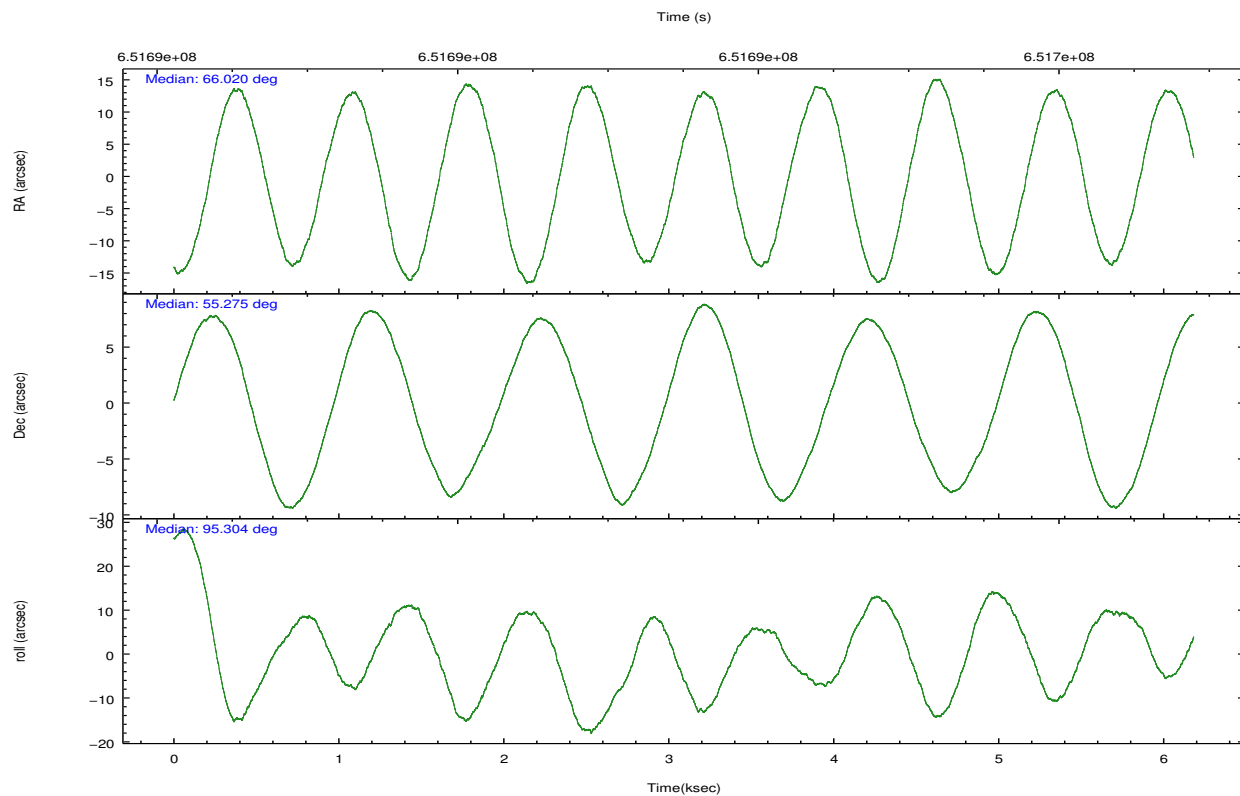
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2082	1830	2876	5323	2092
	2%	3%	4%	8%	4%
grade 1 events	156	25	77	60	28
	0%	0%	0%	0%	0%
grade 2 events	11222	1227	5874	4207	1379
	15%	2%	9%	6%	2%
grade 3 events	1215	546	2227	1976	587
	1%	1%	3%	3%	1%
grade 4 events	1106	550	2094	1893	605
	1%	1%	3%	3%	1%
grade 5 events	5320	2366	6129	3536	2638
	7%	4%	9%	5%	5%
grade 6 events	19589	1223	14449	4571	1285
	26%	2%	23%	7%	2%
grade 7 events	32957	41628	27846	40708	38445
	44%	84%	45%	65%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	66.048355	66.02004048207961	CCD I2 on	N	N
[deg] Pointing Dec	55.252756	55.2749918922453	CCD I3 on	N	N
[deg] Pointing Roll	95.128994	95.30888564198595	CCD S0 on	N	N
[s] Window start time (MET)	651196869.184000	651196869.184000	CCD S1 on	O1	Y
[s] Window stop time (MET)	655776069.184000	655776069.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	O2	Y
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	651690576.184000	651690200.7403001	On-chip summing requested	N	N
Observation start date	2018-08-26T17:08:27	2018-08-26T17:03:20	Subarray requested	NONE	NONE
[s] Observation end time (MET)	651696576.184000	651697378.30323	Alternating exposures requested	N	N
Observation end date	2018-08-26T18:48:27	2018-08-26T19:02:58	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



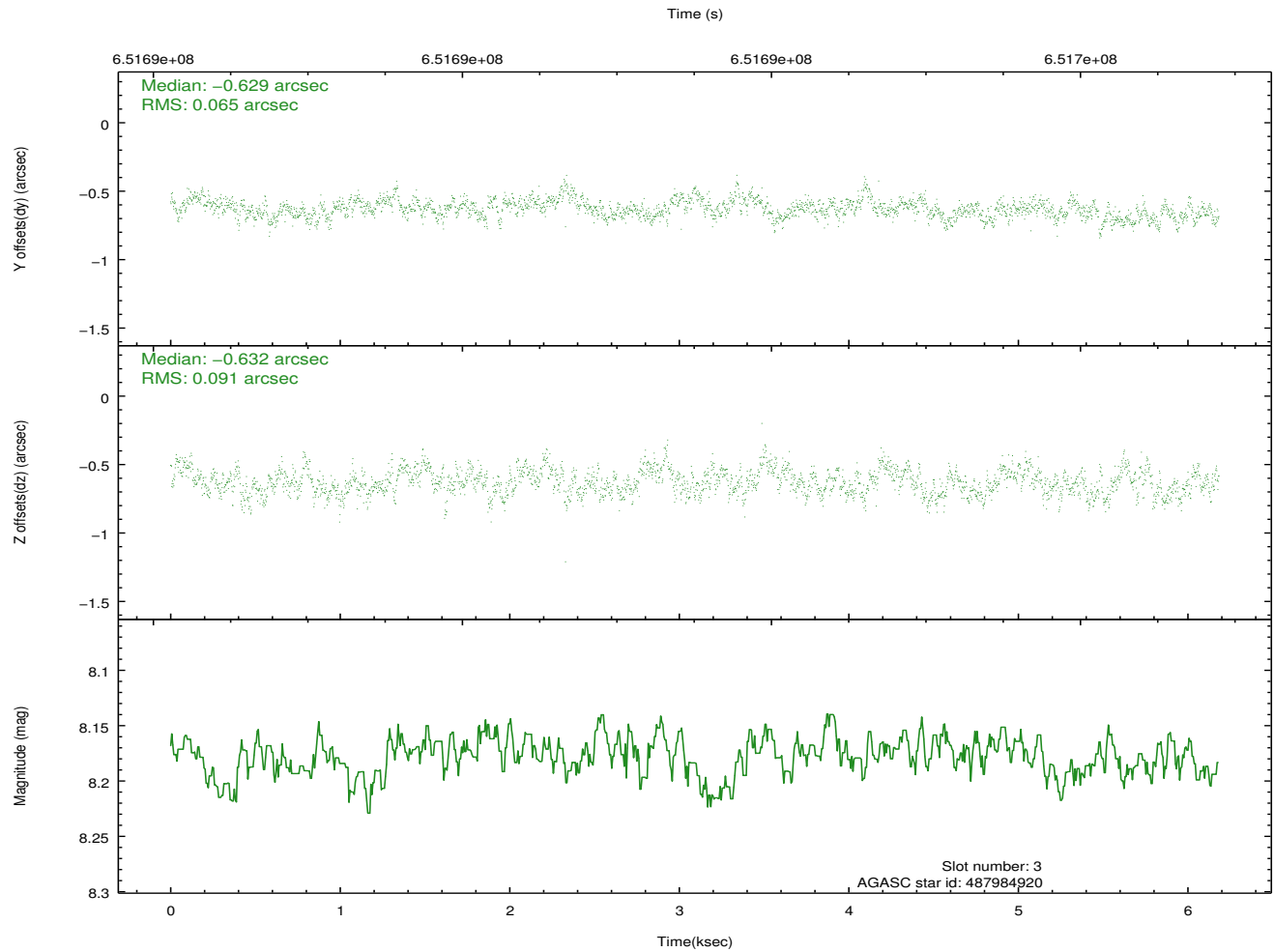
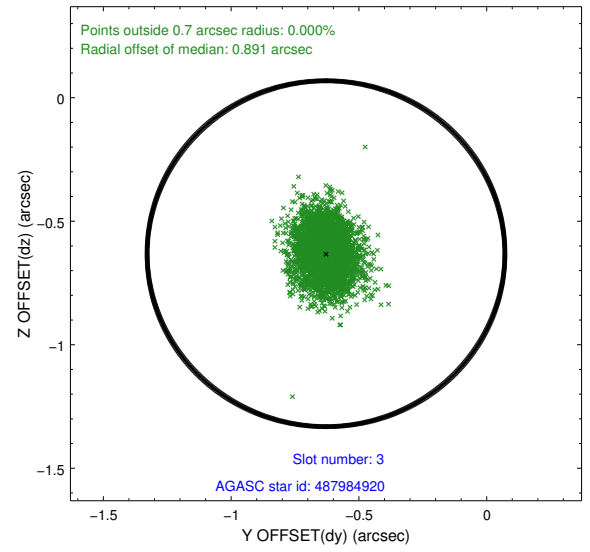
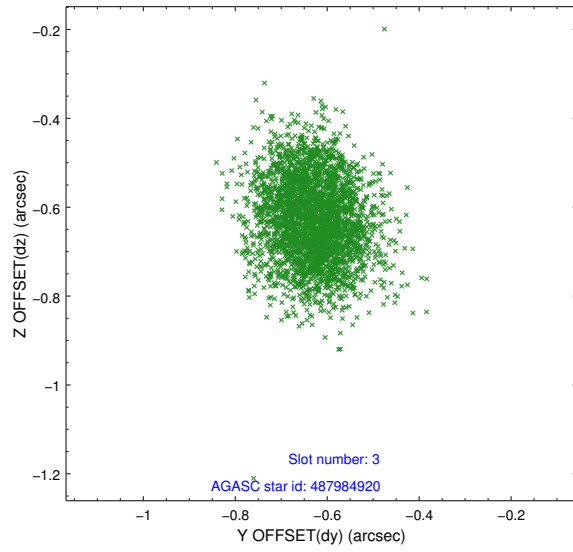


Slot Statistics

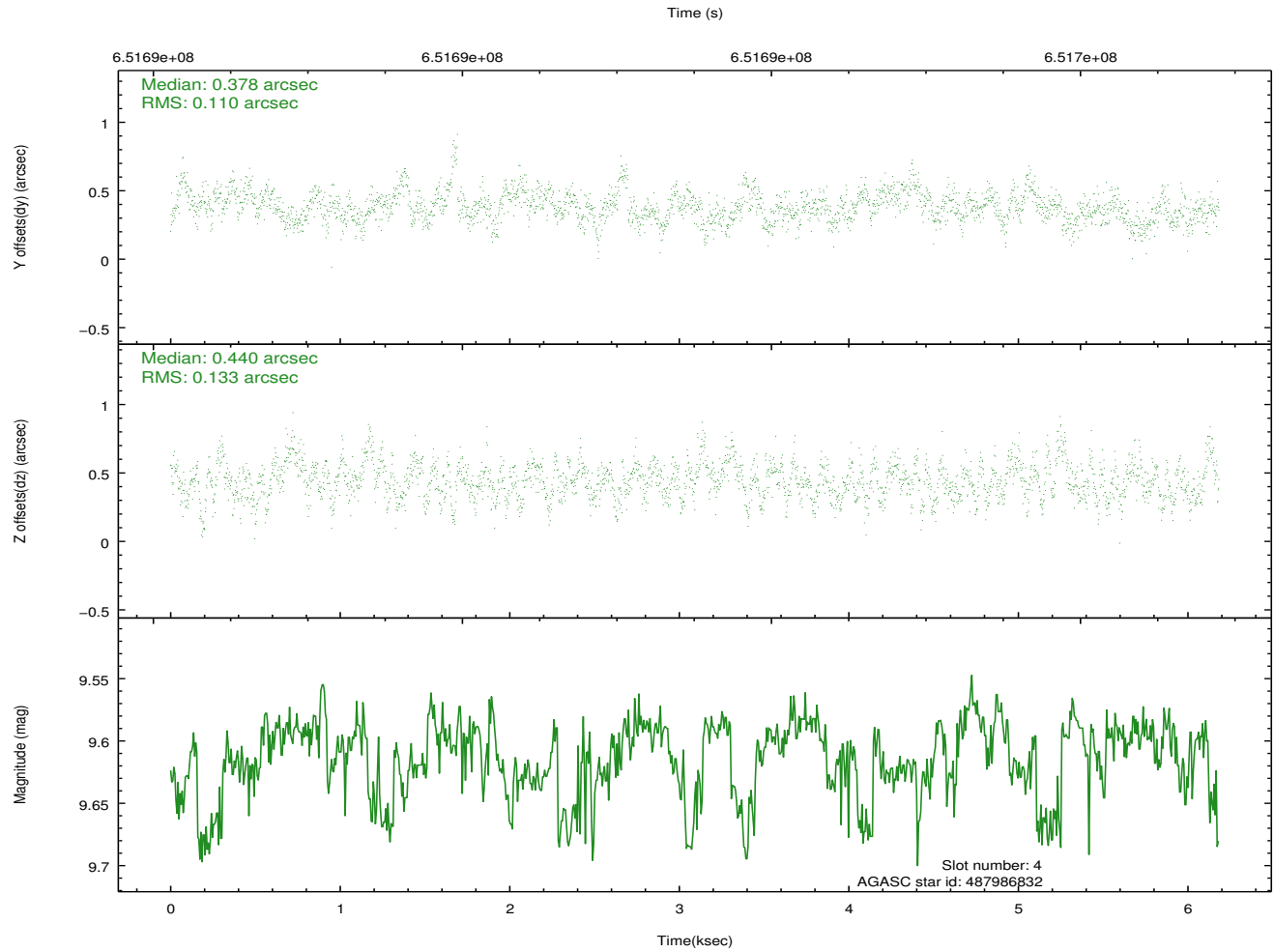
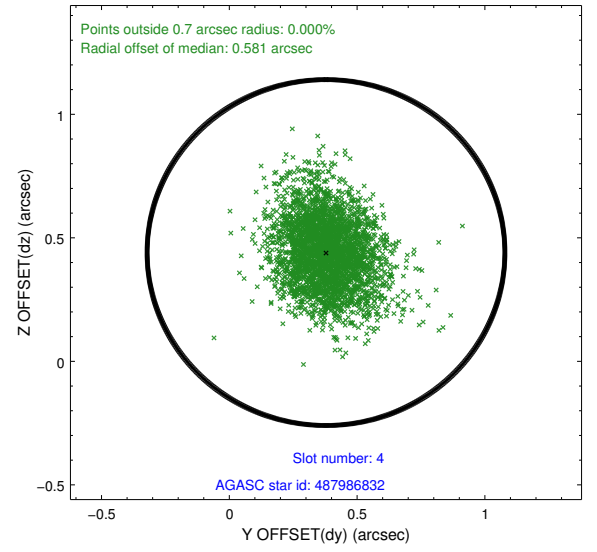
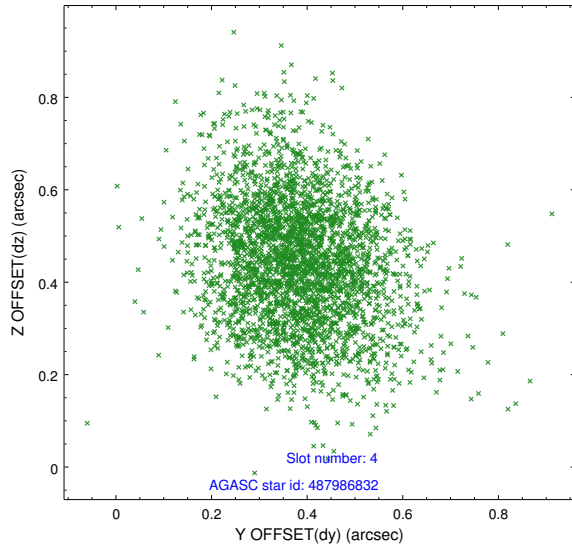
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	1508	1.000	-0.234	-0.149	0.015	0.024	0.000000	0.000000	-772.84	-1744
1	FID		ACIS-S-4	7.08	1508	1.000	0.507	0.153	0.007	0.012	0.000000	0.000000	2140.75	163
2	FID		ACIS-S-5	7.08	1508	1.000	-0.304	0.007	0.016	0.028	0.000000	0.000000	-1824.52	157
3	GUIDE	used	487984920	8.18	3015	1.000	-0.629	-0.632	0.118	0.191	65.279802	55.505250	1053.83	1478
4	GUIDE	used	487986832	9.61	3009	1.000	0.378	0.440	0.181	0.303	66.608481	54.720606	-2006.20	-988
5	GUIDE	used	487987840	9.58	3014	1.000	0.339	0.295	0.211	0.342	66.389470	54.818703	-1617.94	-565
6	GUIDE	used	487988744	9.72	3010	1.000	-0.524	-0.560	0.237	0.356	65.399717	55.288051	250.33	1311
7	GUIDE	used	489688784	9.48	3010	1.000	0.440	0.443	0.219	0.325	66.752591	54.907562	-1359.54	-1340

2.4 Star Slots

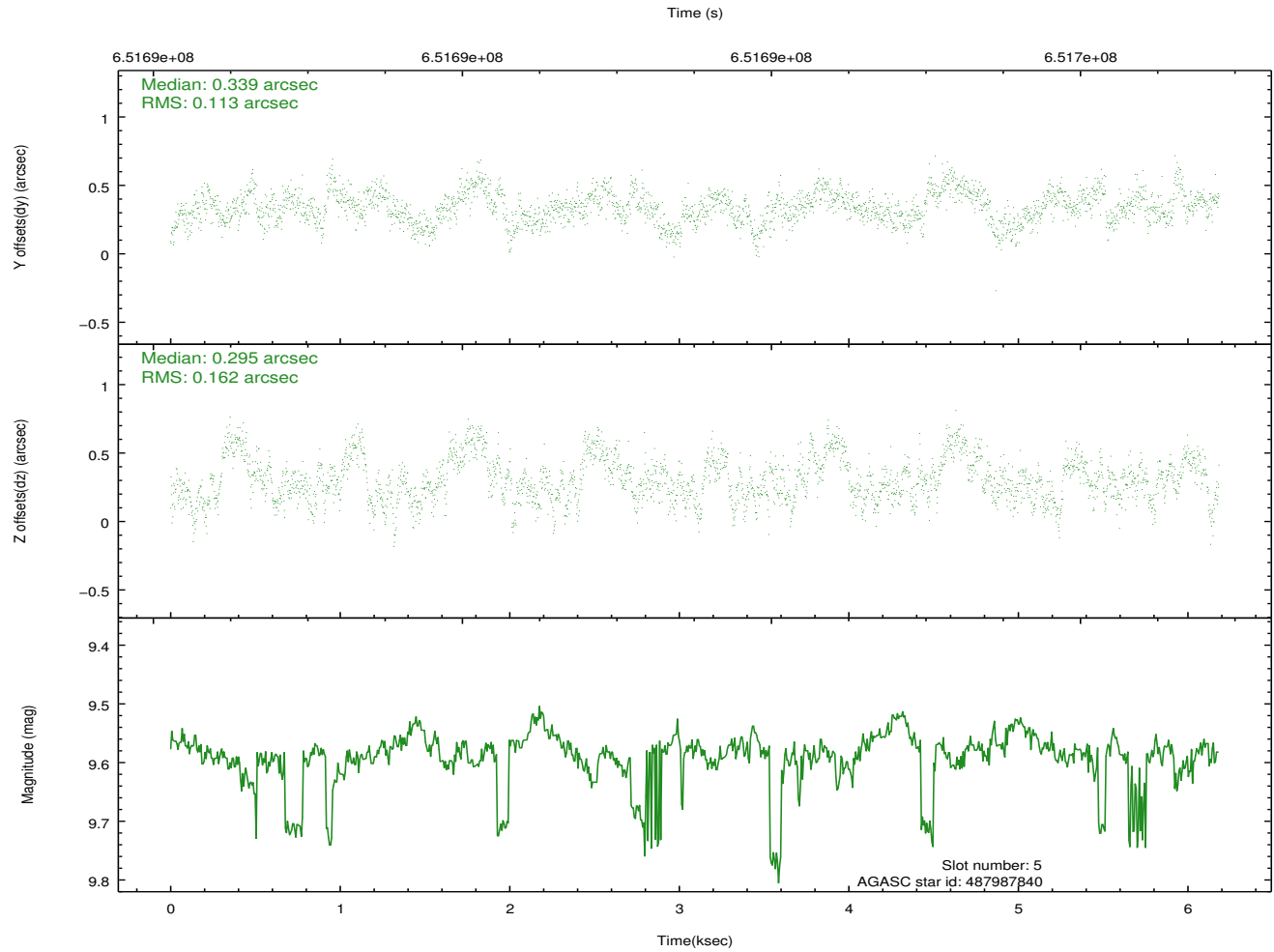
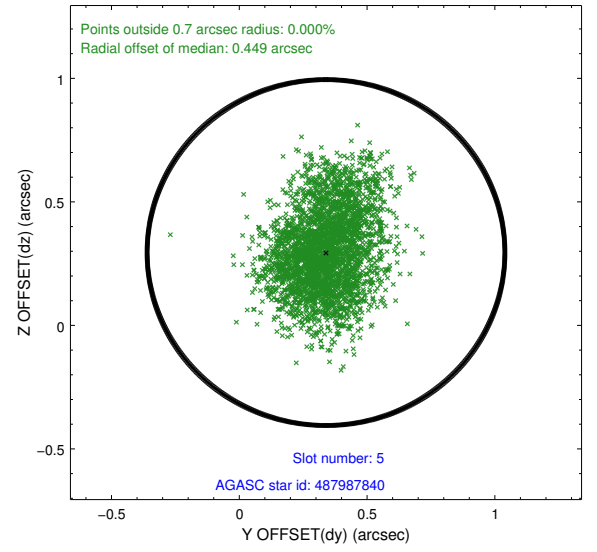
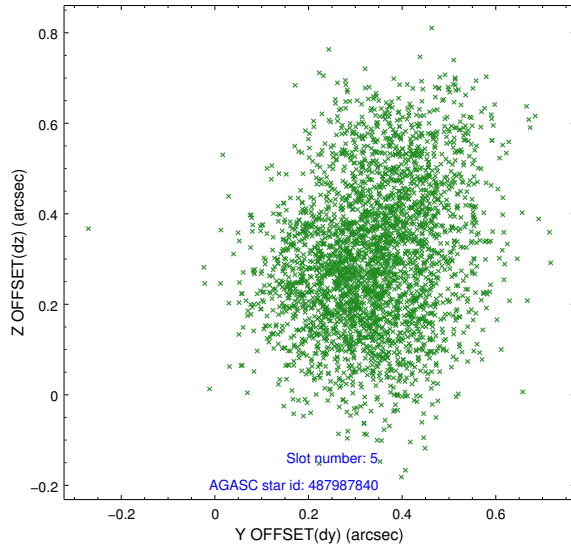
2.4.1 Slot 3



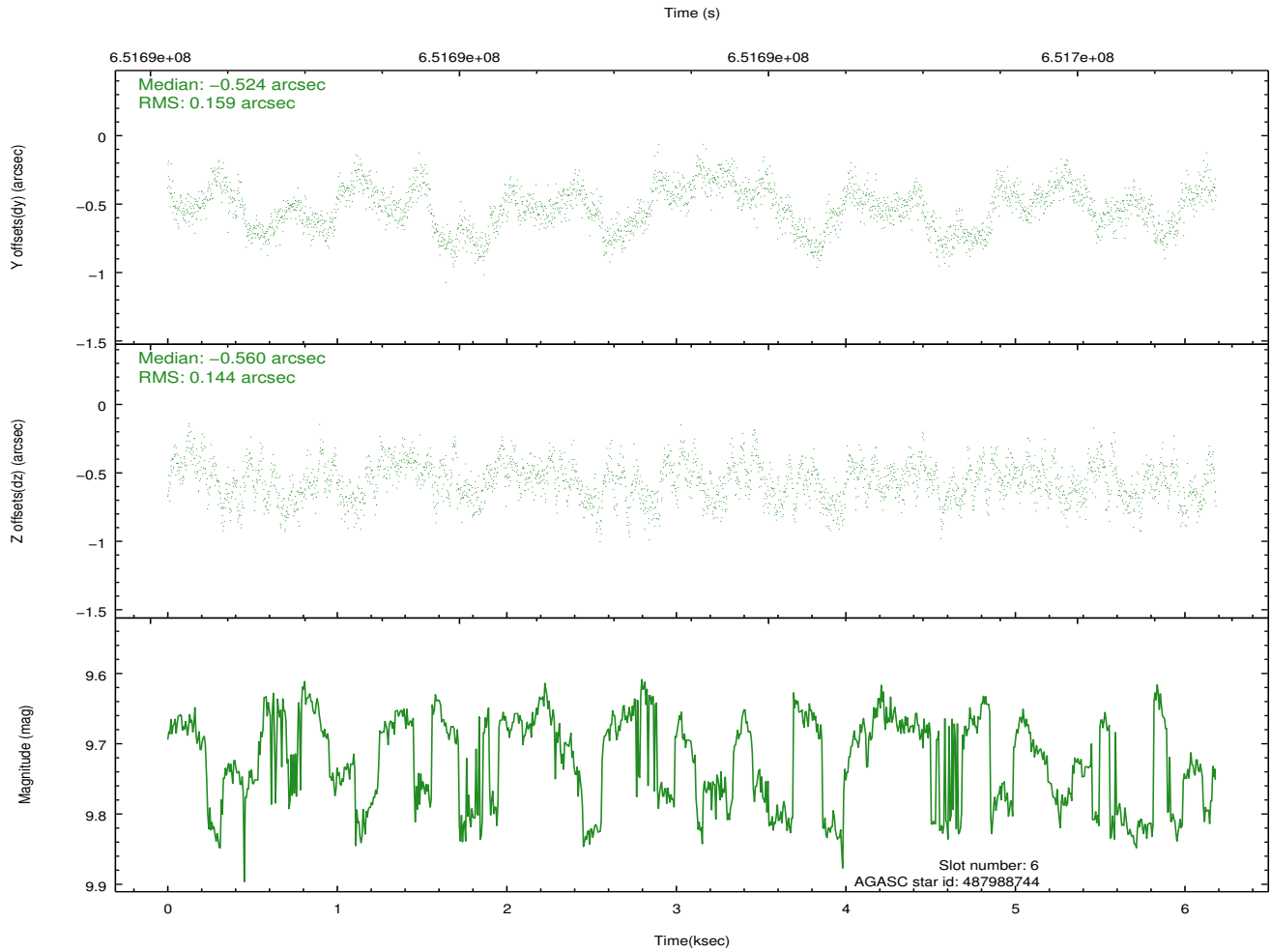
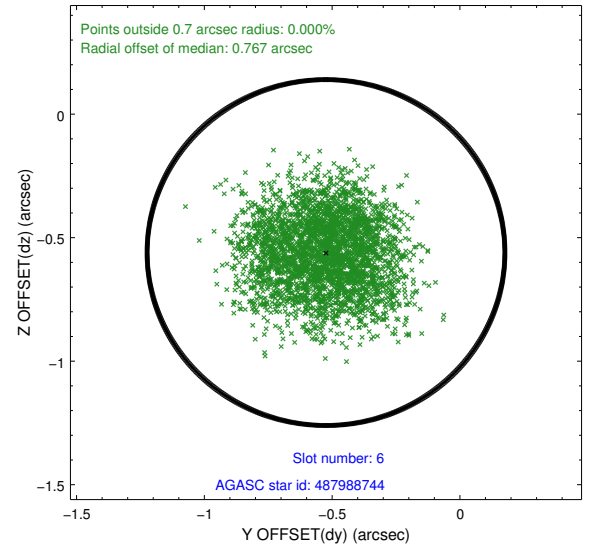
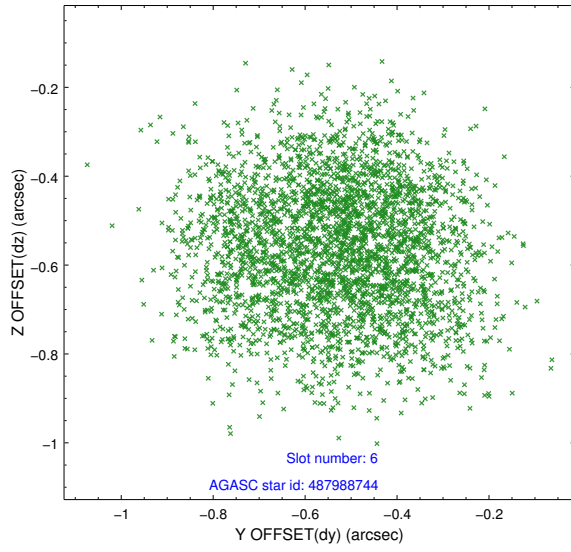
2.4.2 Slot 4



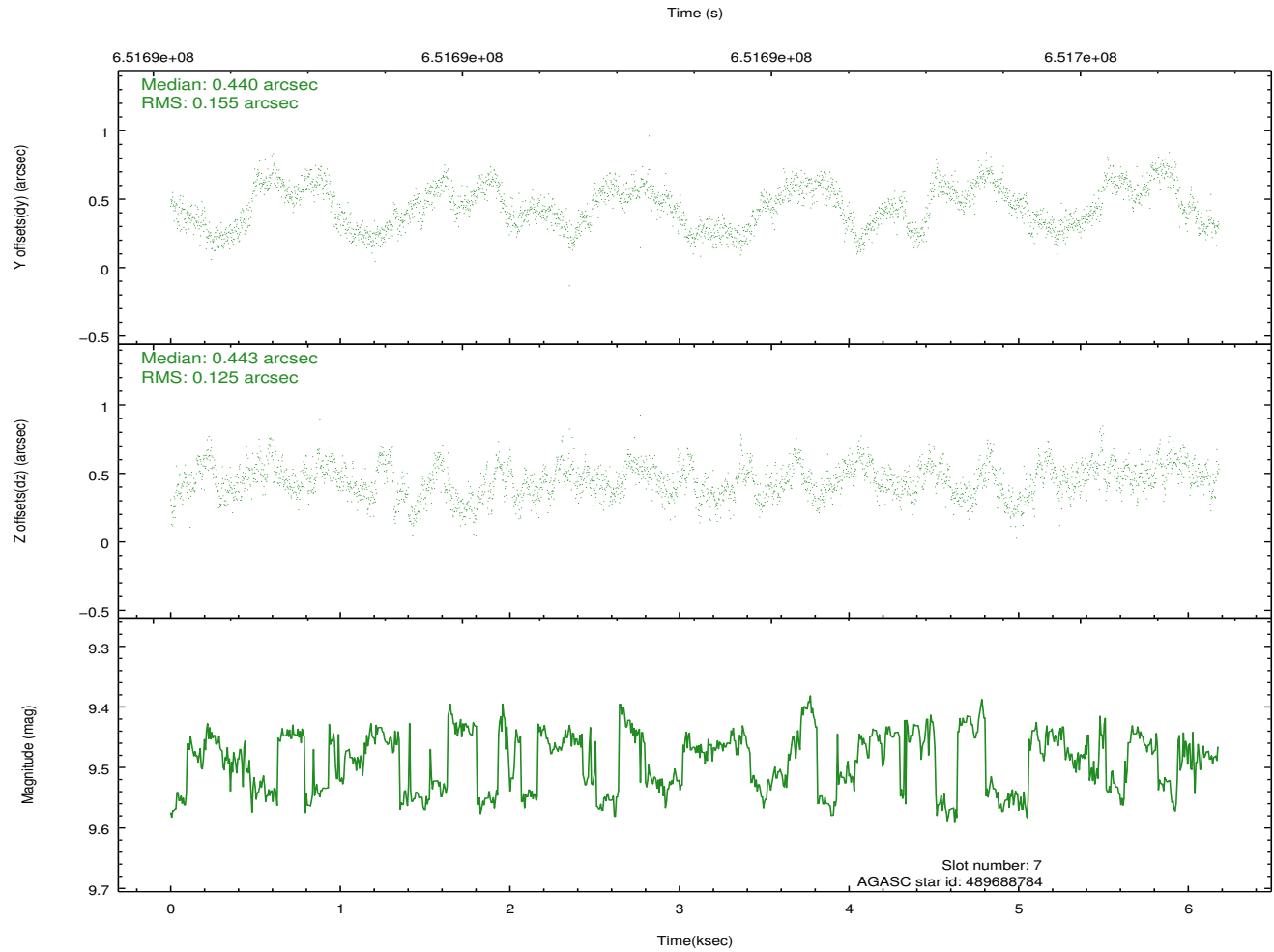
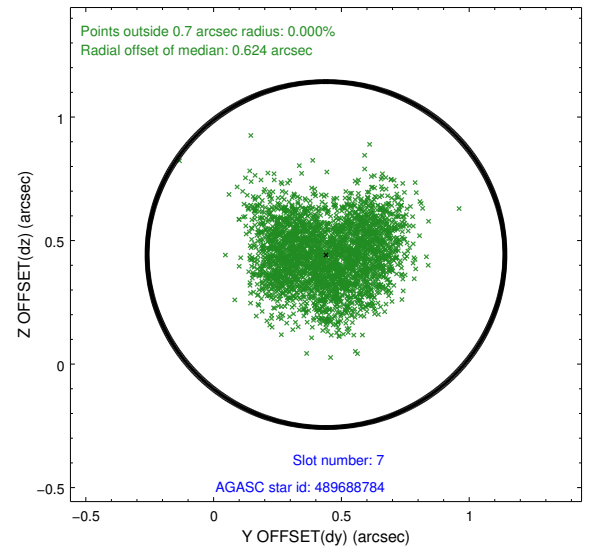
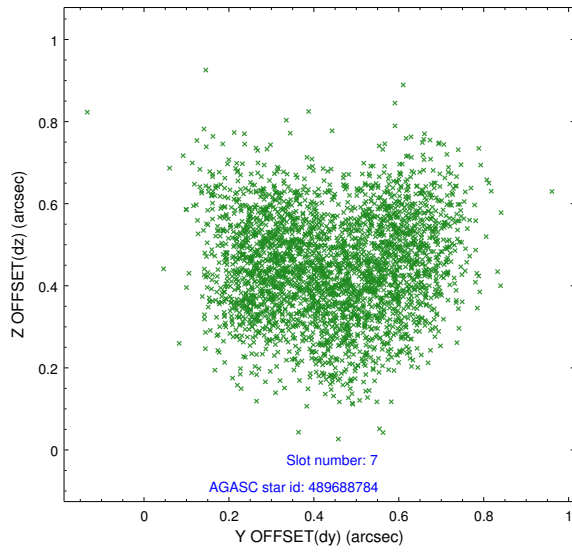
2.4.3 Slot 5



2.4.4 Slot 6

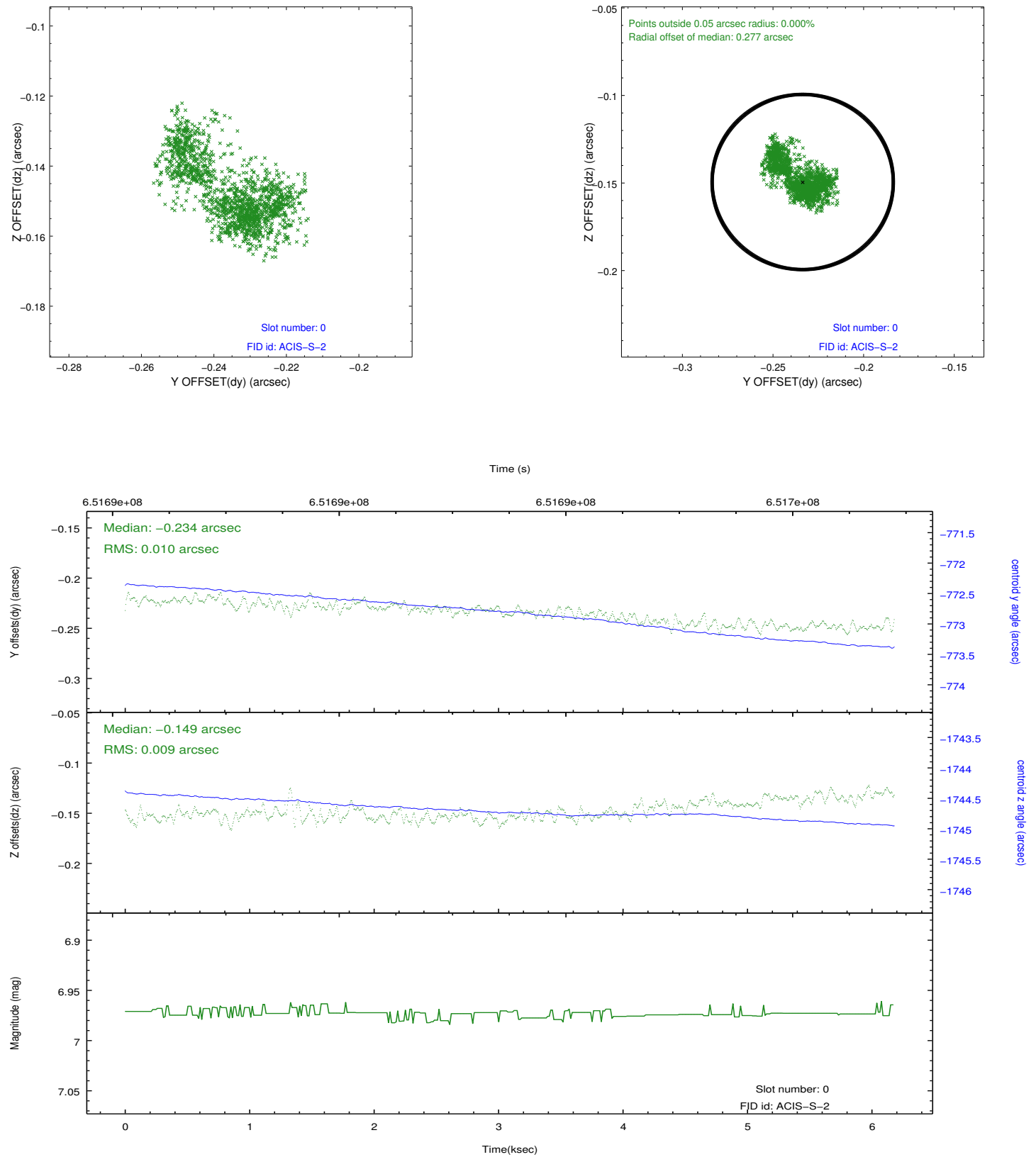


2.4.5 Slot 7

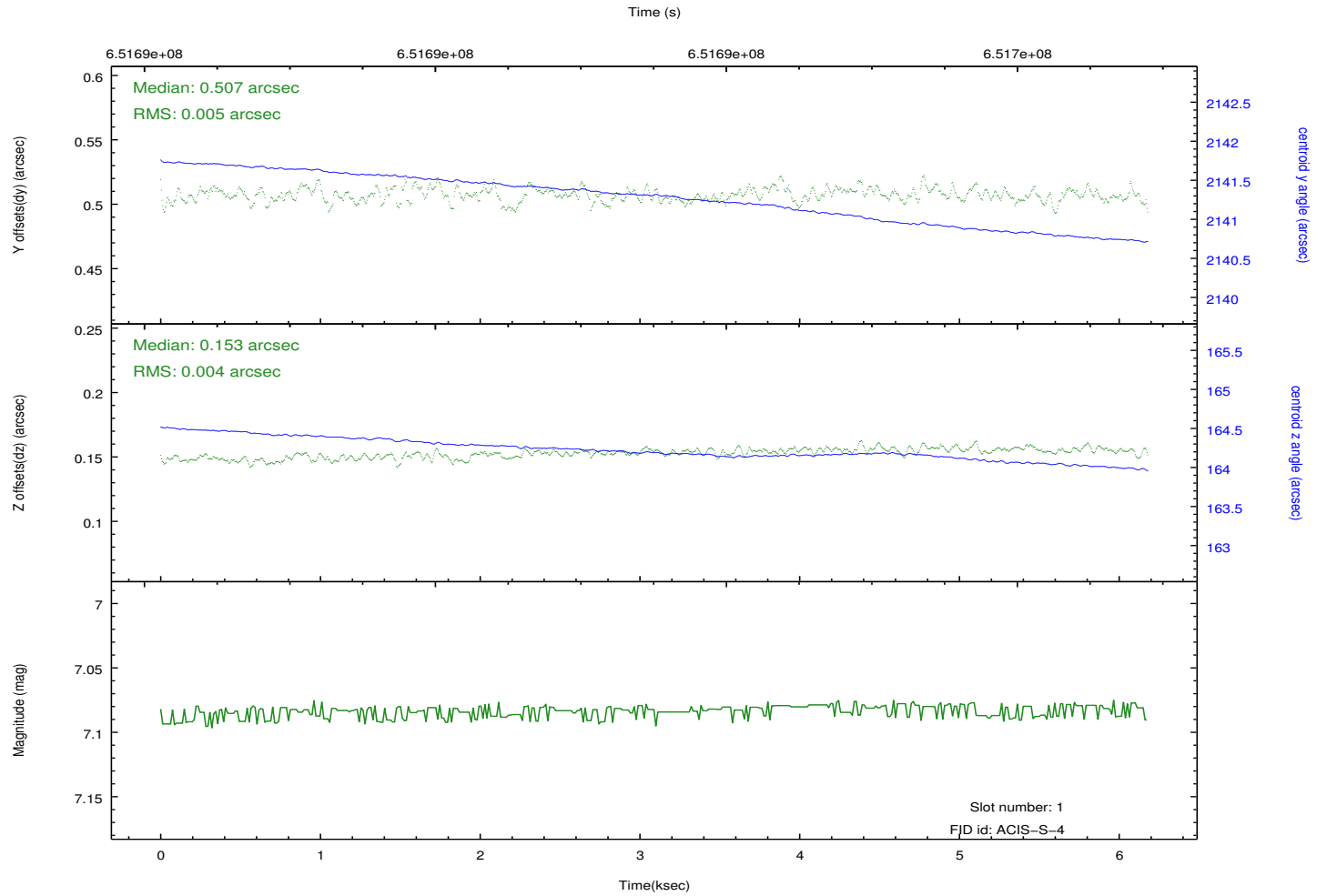
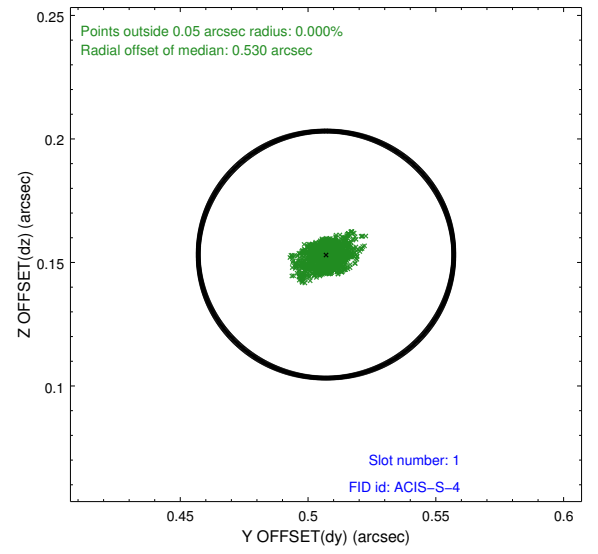
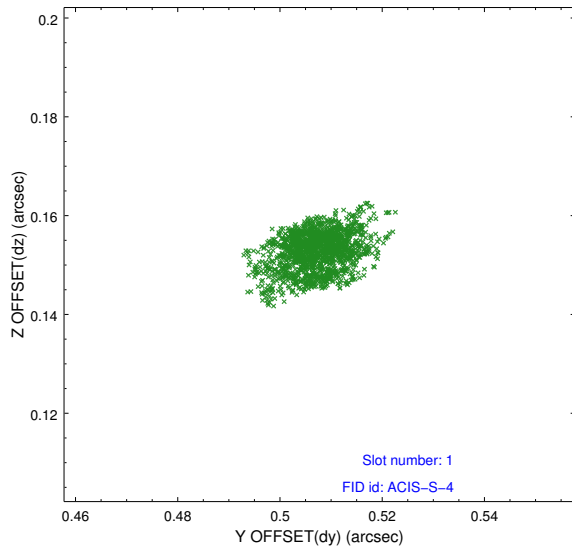


2.5 FID Slots

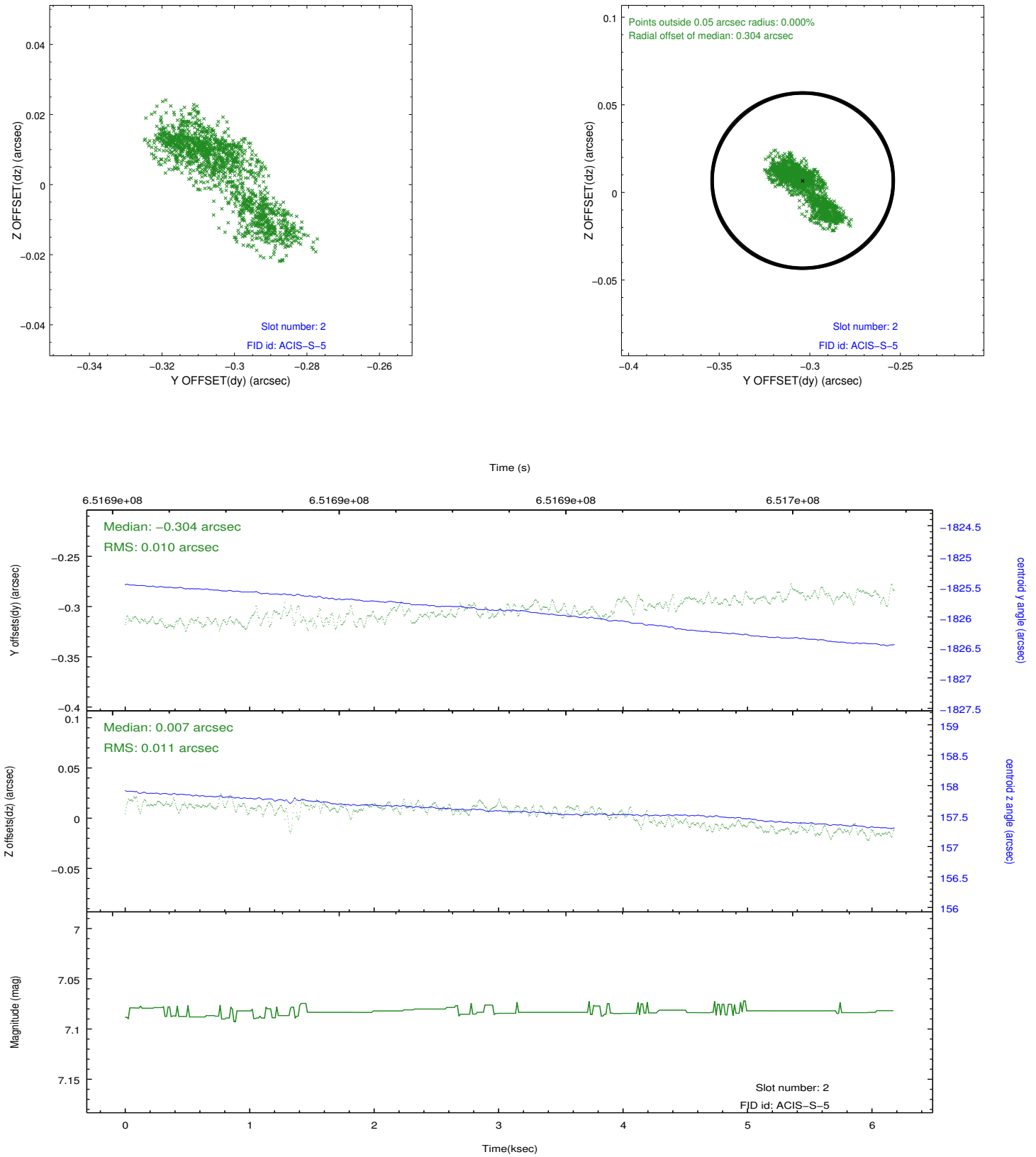
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1752000476122

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.