

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21731 - L2 Version 1
Chandra X-Ray Center

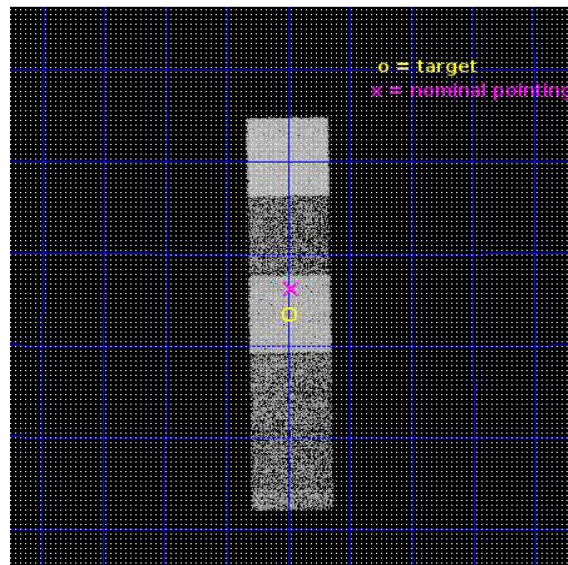
L2 Processing Date : Sep 13 2018

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1 Front

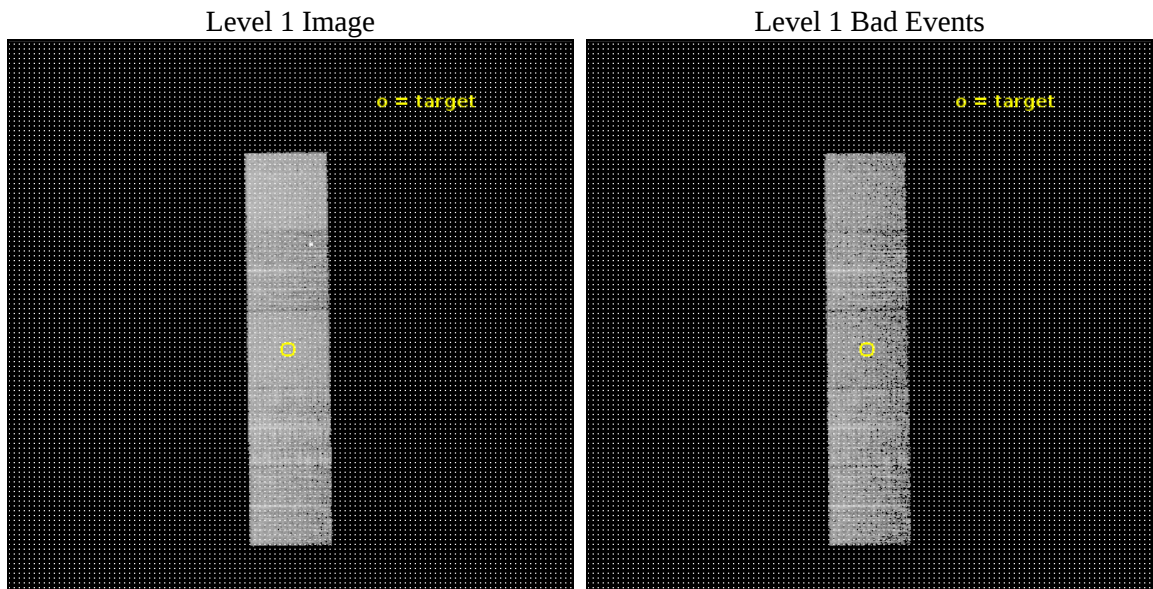
seq_num	100173	Sequence number
obs_id	21731	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.873318	Observer's specified target RA [deg]
dec_targ	30.724287	Observer's specified target Dec [deg]
ra_nom	88.868592743873	Nominal RA [deg]
dec_nom	30.770379251509	Nominal Dec [deg]
roll_nom	89.228144257853	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5170.8000398874	Sum of GTIs [s]
livetime	5103.2397306787	Livetime [s]
ontime5	5170.8000398874	Sum of GTIs [s]
ontime6	5170.8000398874	Sum of GTIs [s]
ontime7	5170.8000398874	Sum of GTIs [s]
ontime8	5170.8000398874	Sum of GTIs [s]
ontime9	5170.8000398874	Sum of GTIs [s]
l2events	62591	Number of level 2 events



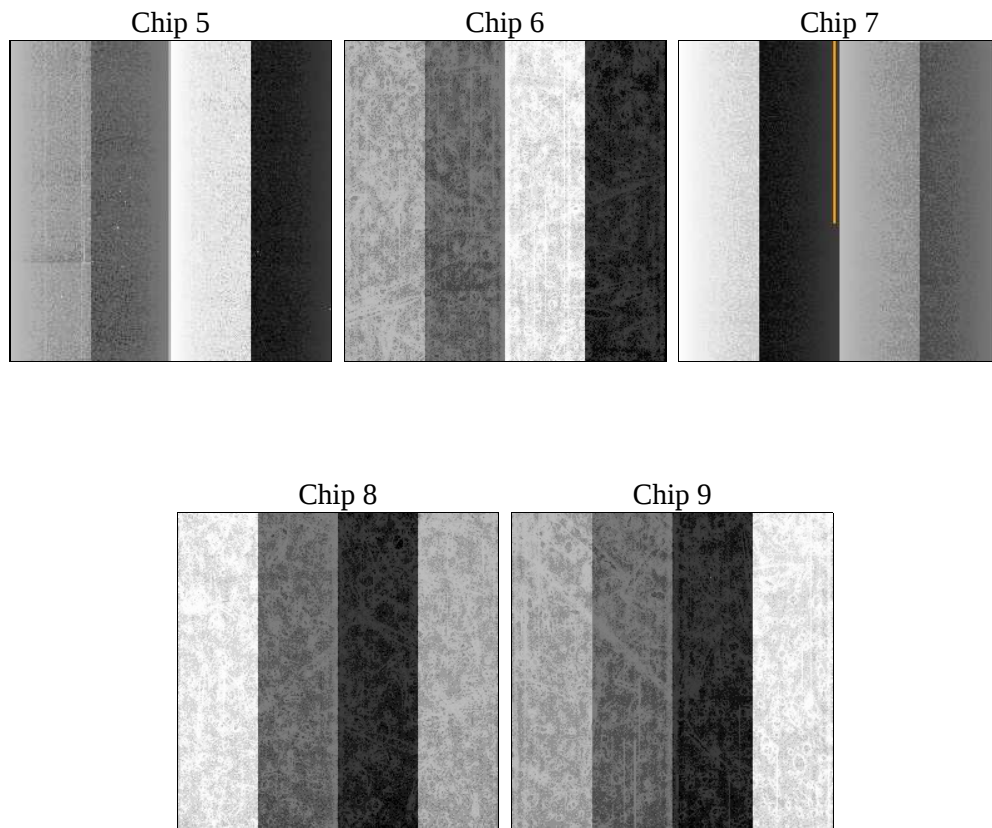
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	5170.8000398874	Sum of GTIs [s]
caldbver	4.8.0	 	ontime5	5170.8000398874	Sum of GTIs [s]
date	2018-09-13T07:26:53	Date and time of file creation	ontime6	5170.8000398874	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5170.8000398874	Sum of GTIs [s]
			ontime8	5170.8000398874	Sum of GTIs [s]
			ontime9	5170.8000398874	Sum of GTIs [s]
			l1events	247321	Number of level 1 events

2.1.4 Events

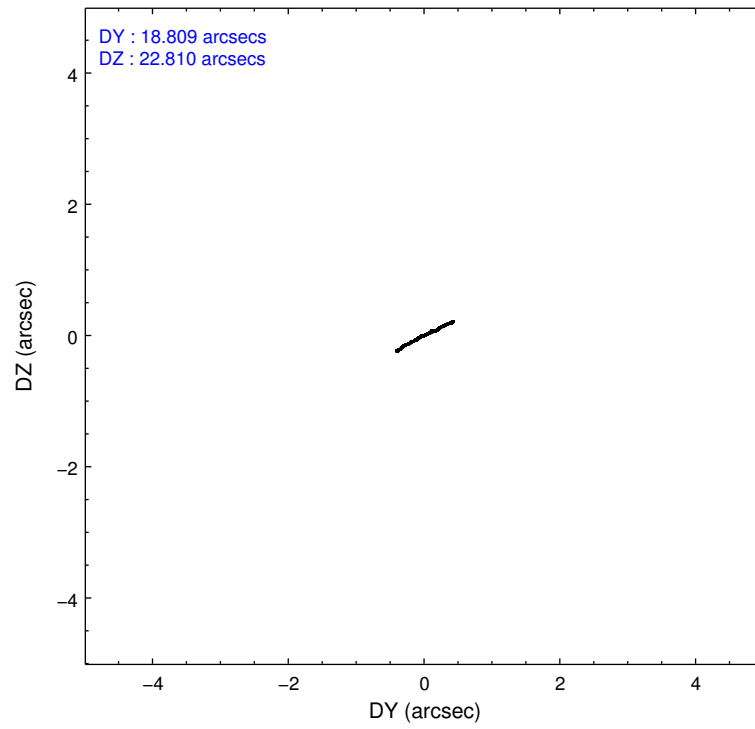
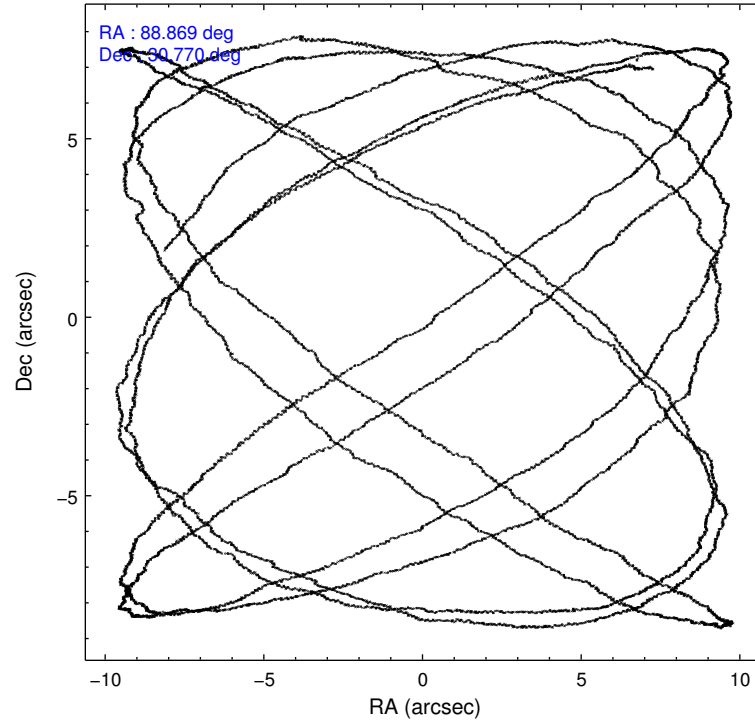
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	62587	41313	51413	52738	39270
rejected events	33730	35403	29508	38464	34478
rejected %	53%	85%	57%	72%	87%

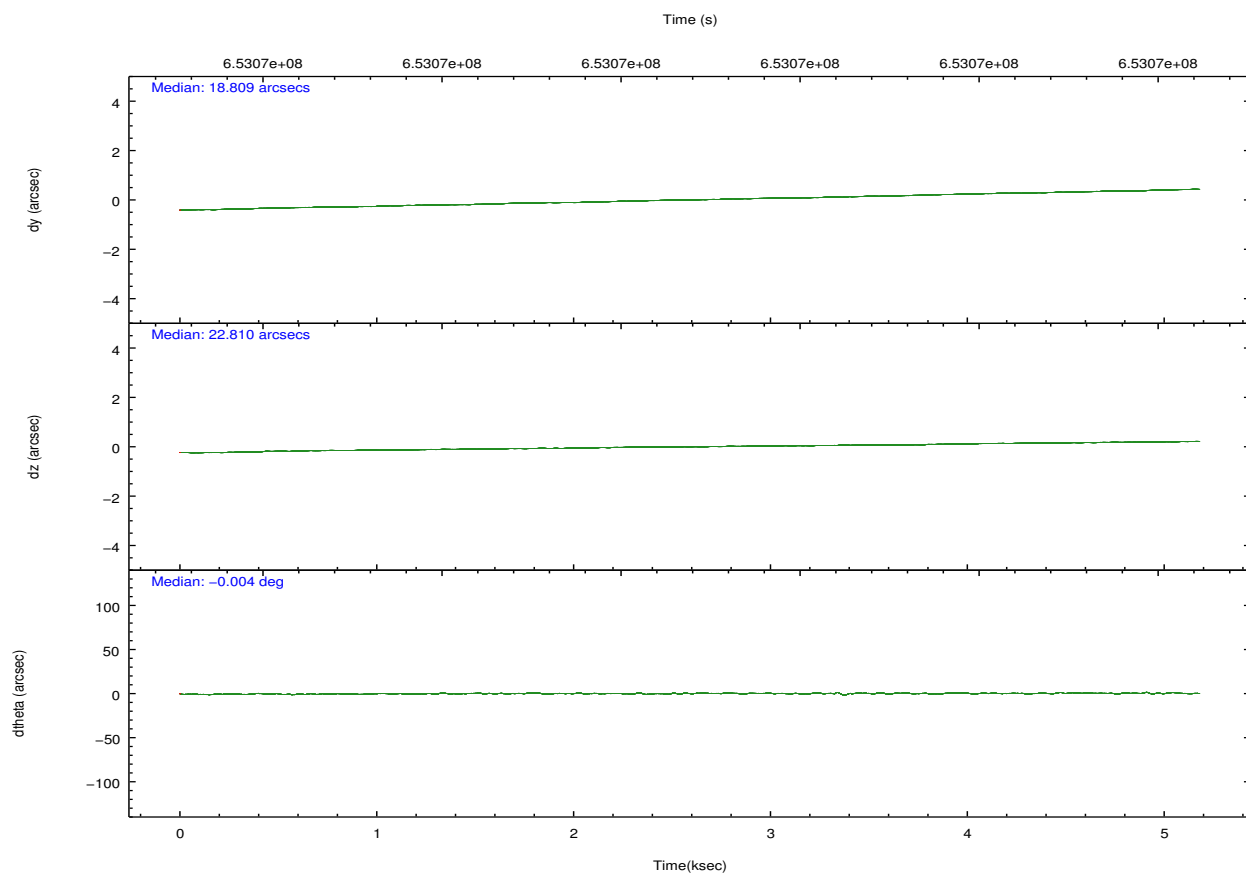
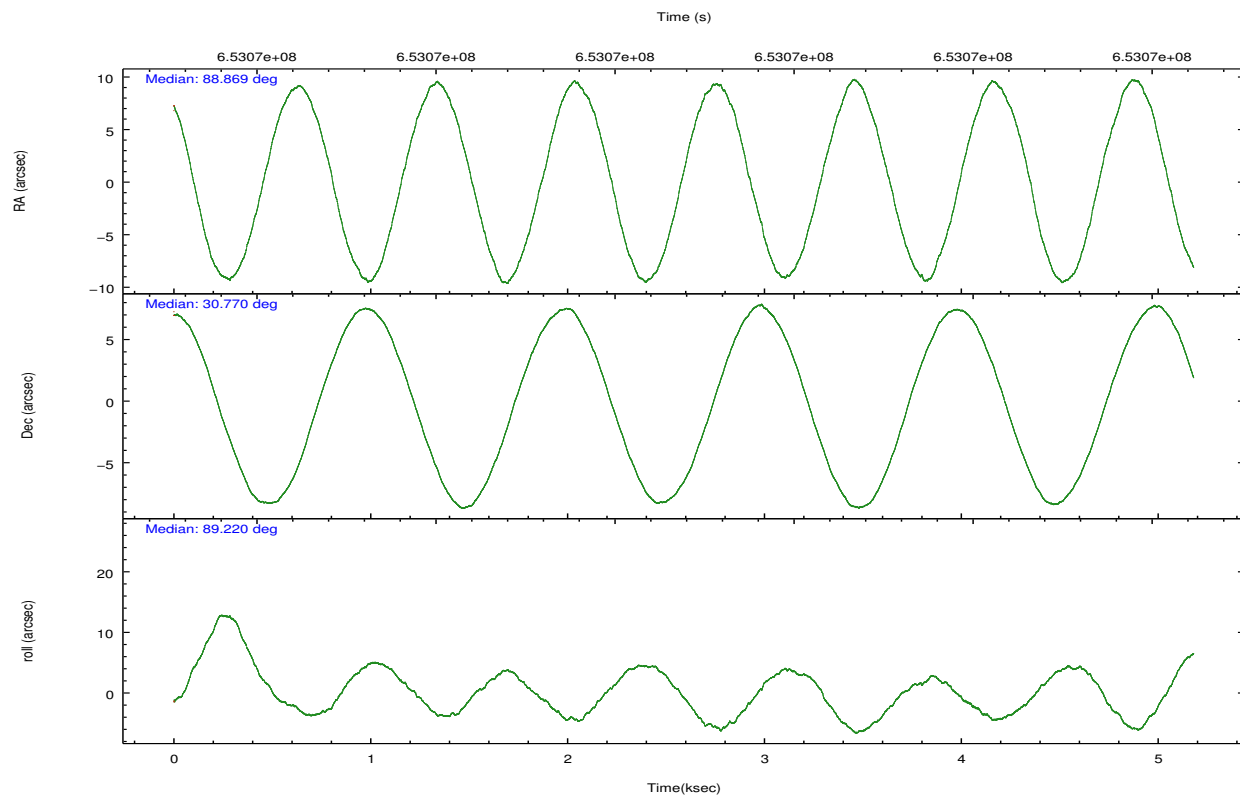
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1714	2991	2057	4407	1724
	2%	7%	4%	8%	4%
grade 1 events	123	22	80	32	19
	0%	0%	0%	0%	0%
grade 2 events	9578	1134	4893	3756	1134
	15%	2%	9%	7%	2%
grade 3 events	996	454	1860	1512	512
	1%	1%	3%	2%	1%
grade 4 events	977	468	1801	1423	473
	1%	1%	3%	2%	1%
grade 5 events	4688	1983	5078	2960	2234
	7%	4%	9%	5%	5%
grade 6 events	16737	1102	12144	3862	1118
	26%	2%	23%	7%	2%
grade 7 events	27774	33159	23500	34786	32056
	44%	80%	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	88.884564	88.86859274387261	CCD I2 on	N	N
[deg] Pointing Dec	30.746547	30.77037925150896	CCD I3 on	N	N
[deg] Pointing Roll	89.063357	89.22814425785302	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	653065993.184000	653065617.05949	CCD S5 on	O2	Y
Observation start date	2018-09-11T15:12:04	2018-09-11T15:06:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	653070993.184000	653072070.97237	On-chip summing requested	N	N
Observation end date	2018-09-11T16:35:24	2018-09-11T16:54:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



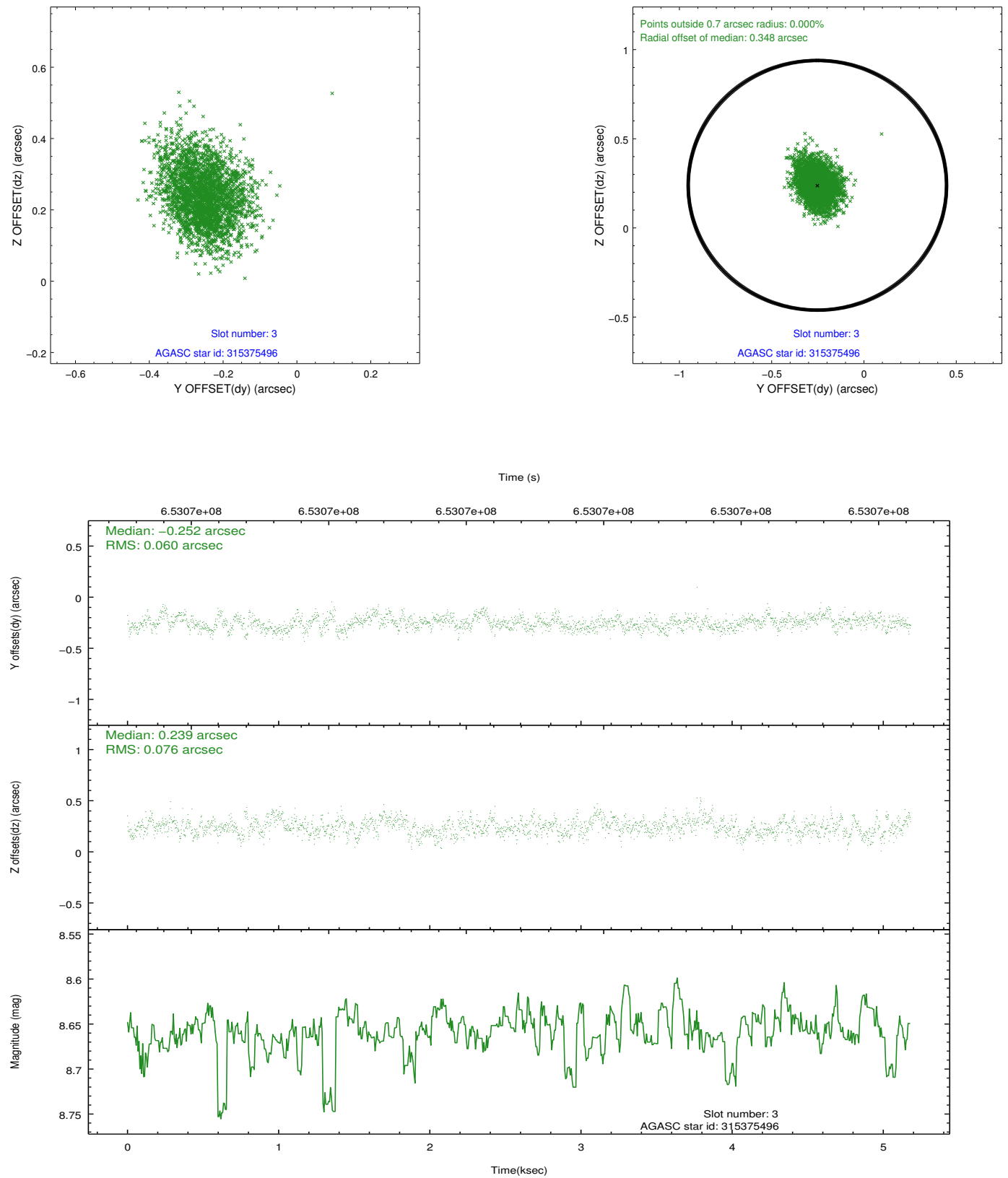


Slot Statistics

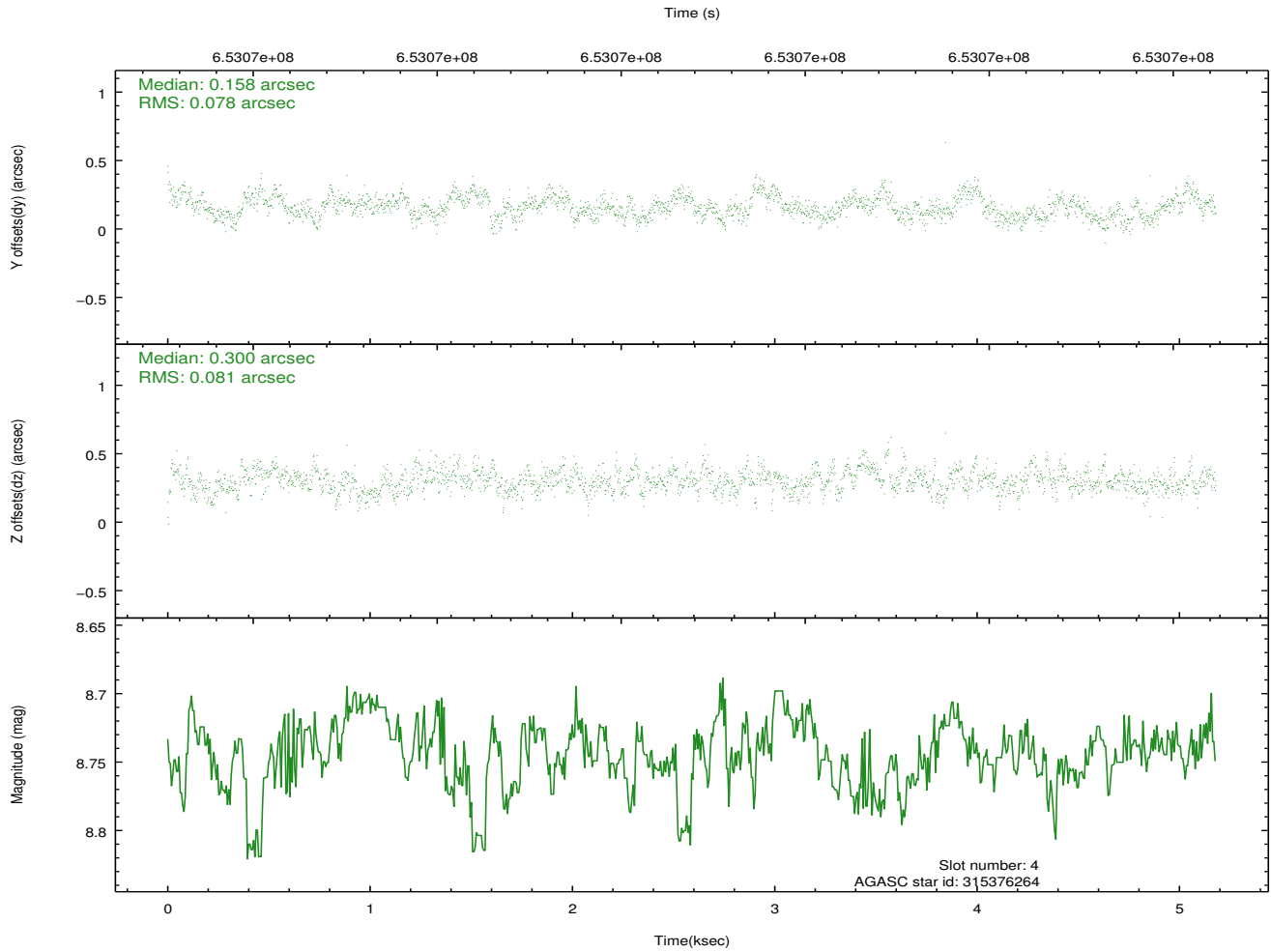
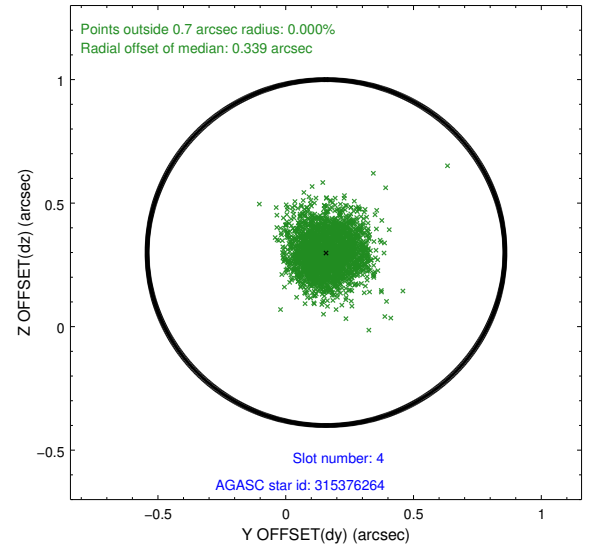
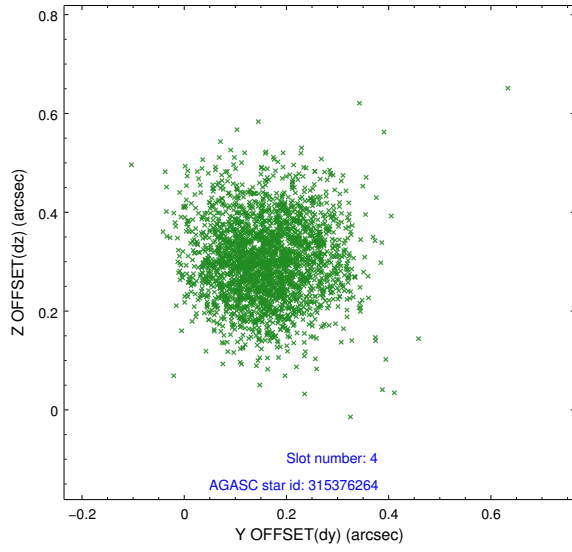
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	1264	1.000	-0.216	-0.146	0.012	0.019	0.000000	0.000000	-772.12	-1744
1	FID		ACIS-S-4	7.10	1264	1.000	0.499	0.143	0.013	0.024	0.000000	0.000000	2141.36	163
2	FID		ACIS-S-5	7.10	1264	1.000	-0.316	0.010	0.008	0.013	0.000000	0.000000	-1823.55	157
3	GUIDE	used	315375496	8.66	2526	1.000	-0.252	0.239	0.103	0.167	89.379333	31.109784	1335.84	-1502
4	GUIDE	used	315376264	8.74	2526	1.000	0.158	0.300	0.118	0.191	88.902699	30.711380	-124.78	-58
5	GUIDE	used	315376832	8.93	2523	1.000	-0.097	-0.264	0.117	0.191	88.765158	30.804192	201.41	372
6	GUIDE	used	315378784	8.30	2526	1.000	0.140	0.135	0.102	0.162	88.722786	30.337477	-1480.43	478
7	GUIDE	used	315375336	8.47	2525	1.000	0.044	-0.415	0.112	0.185	88.334590	30.449269	-1096.66	1688

2.4 Star Slots

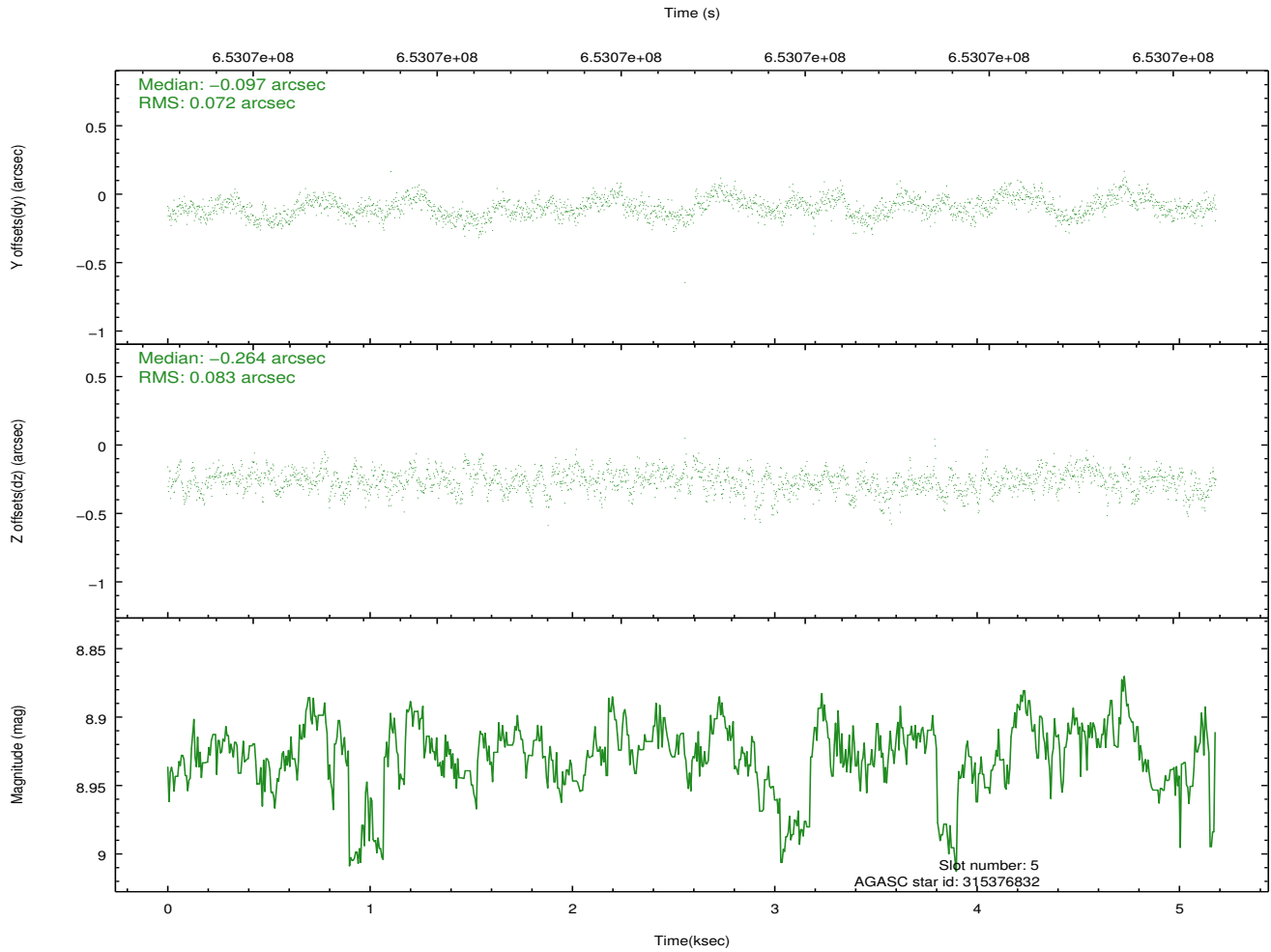
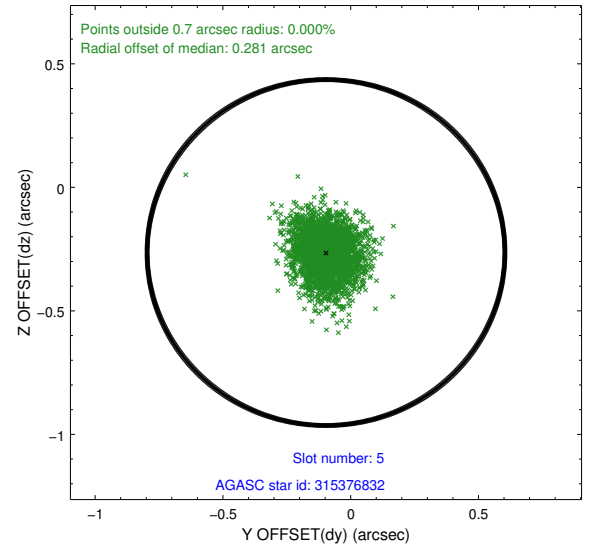
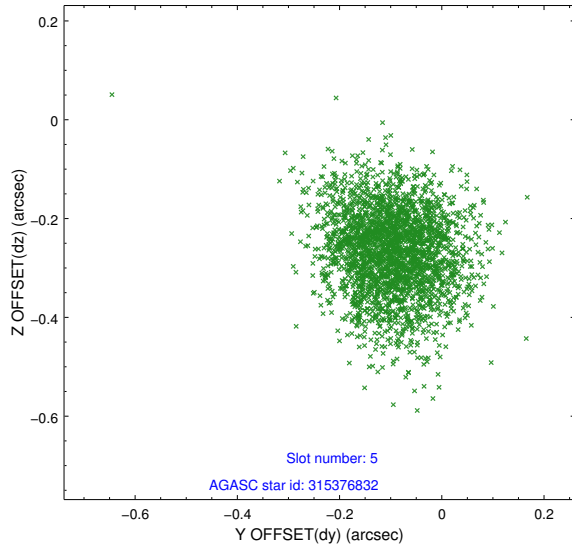
2.4.1 Slot 3



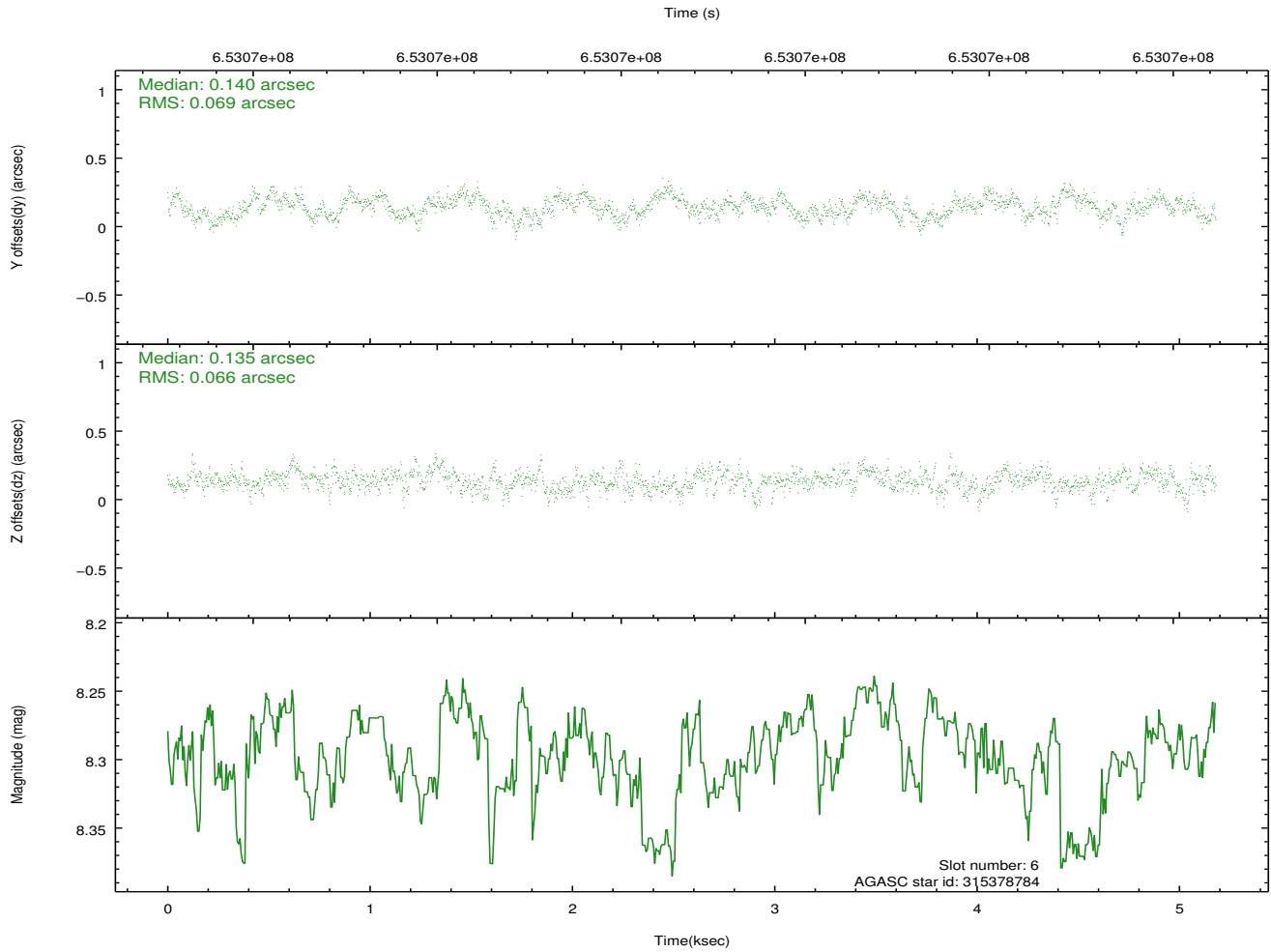
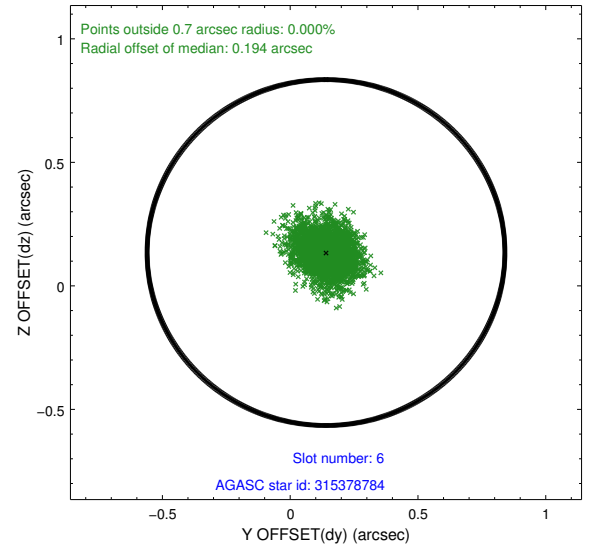
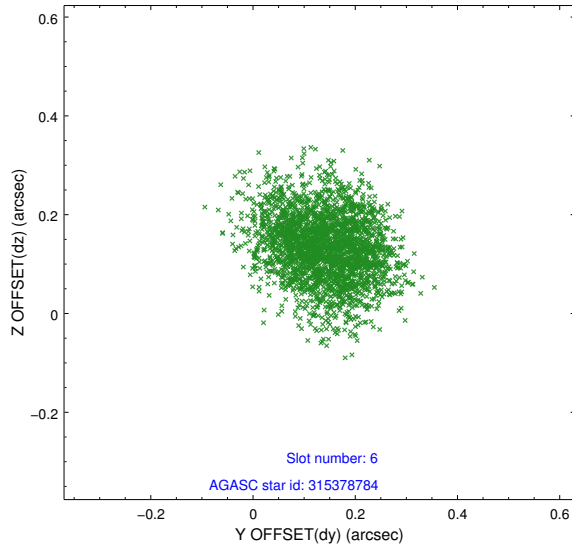
2.4.2 Slot 4



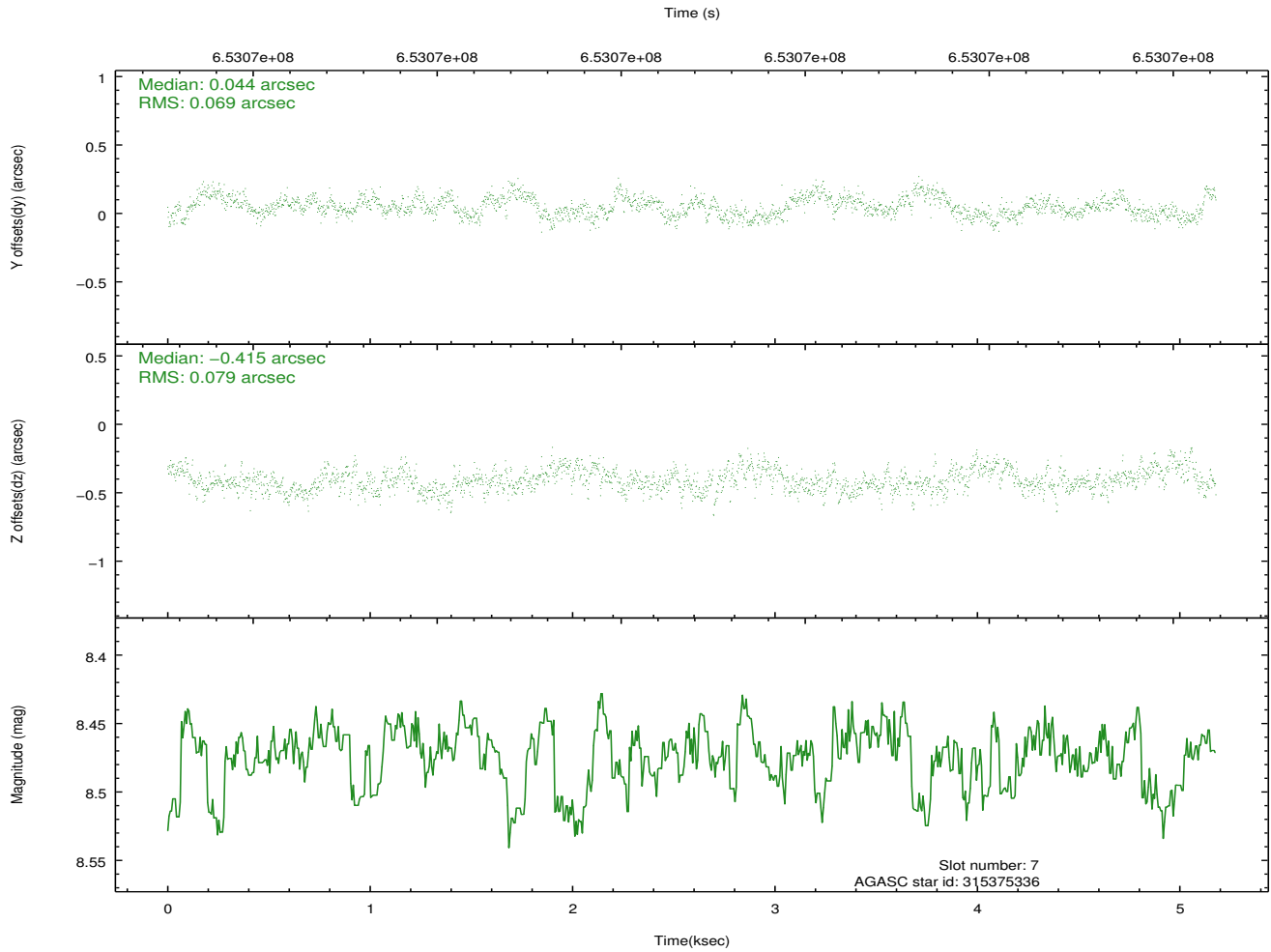
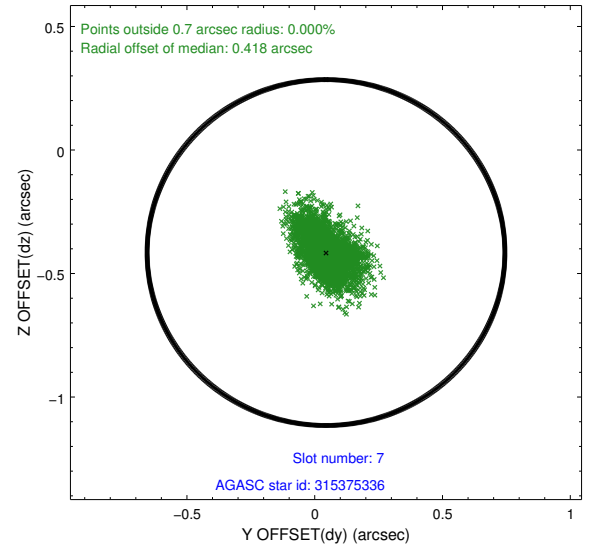
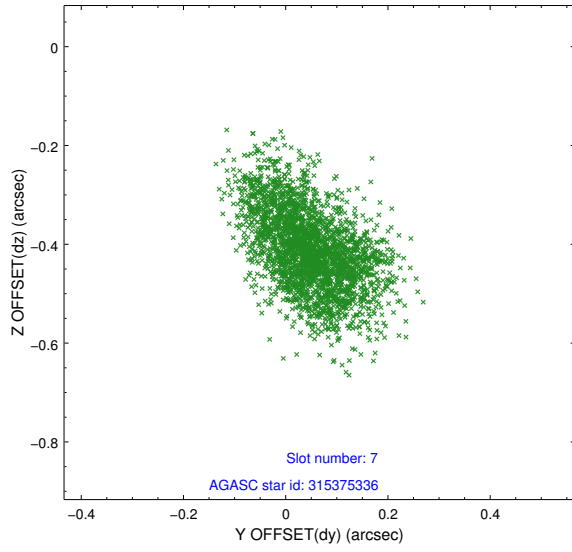
2.4.3 Slot 5



2.4.4 Slot 6

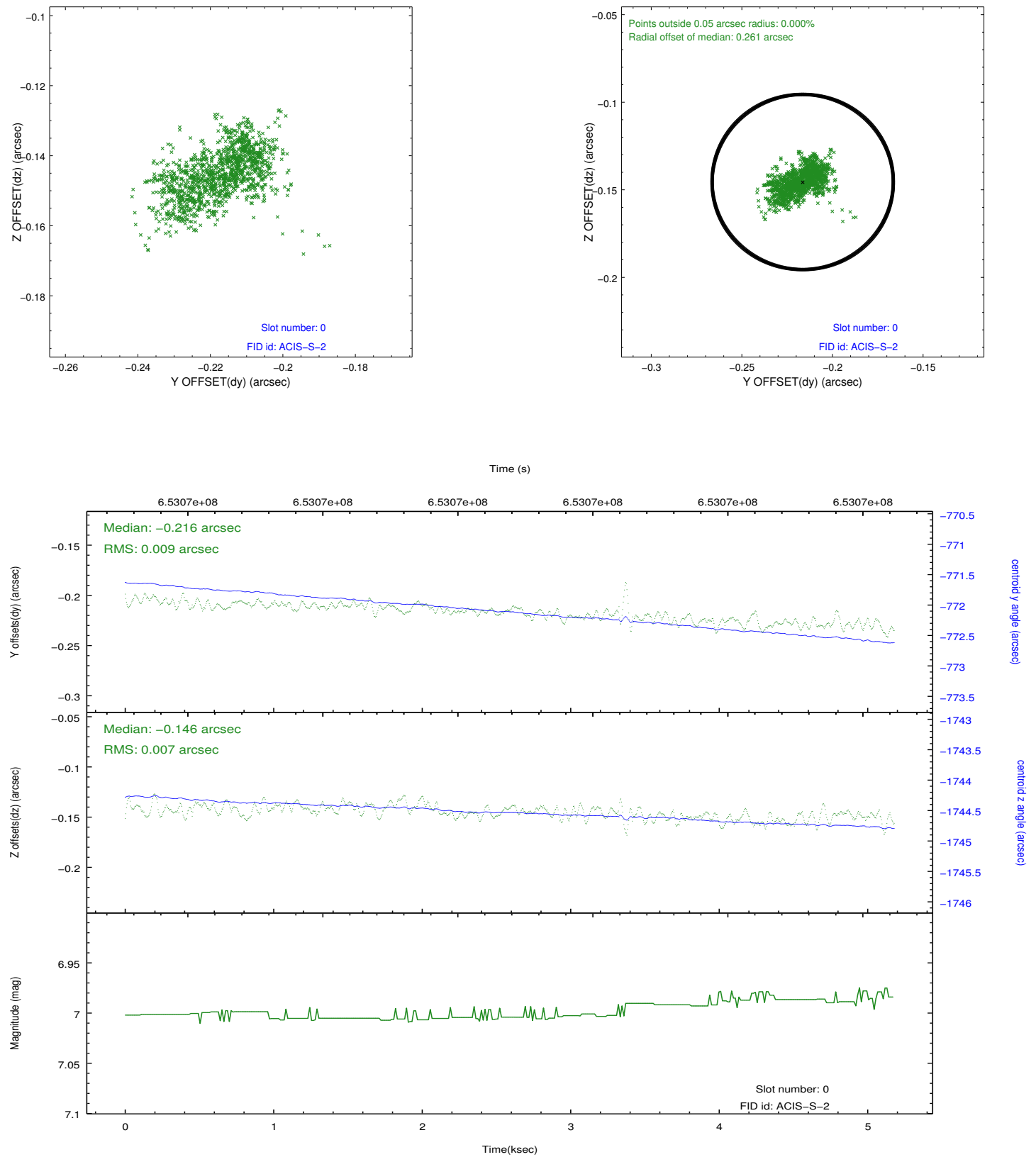


2.4.5 Slot 7

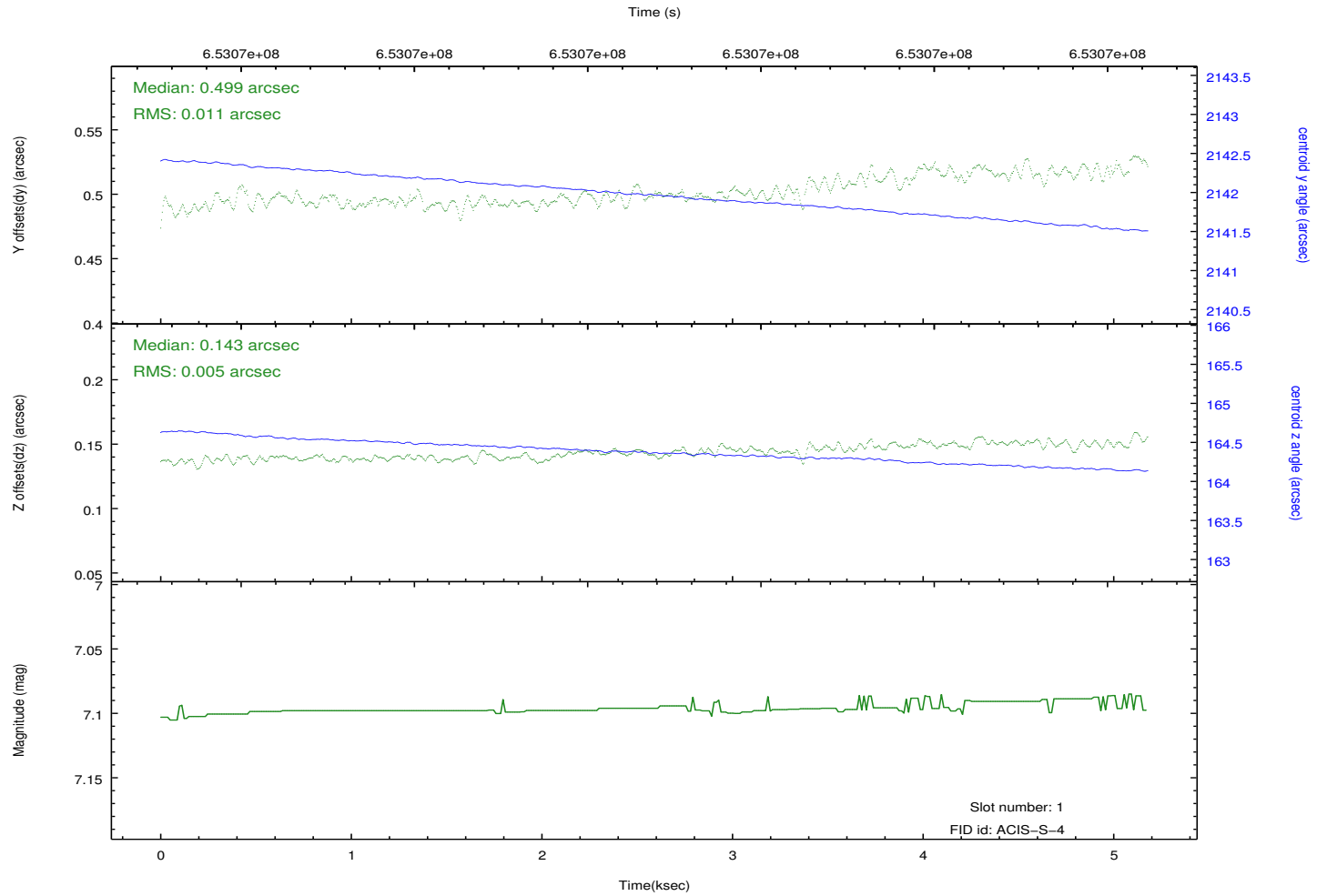
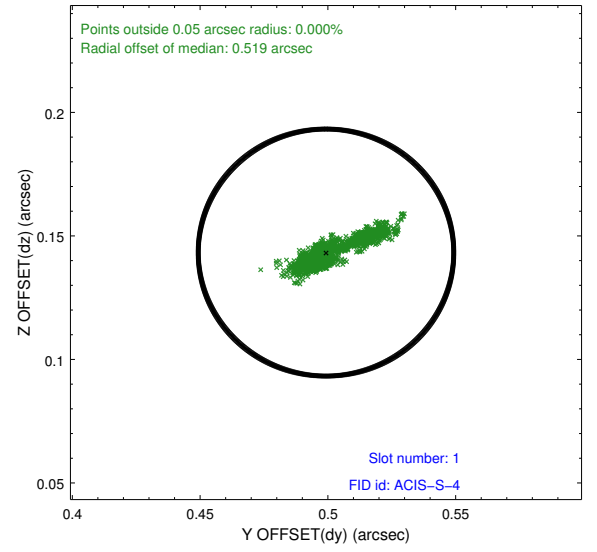
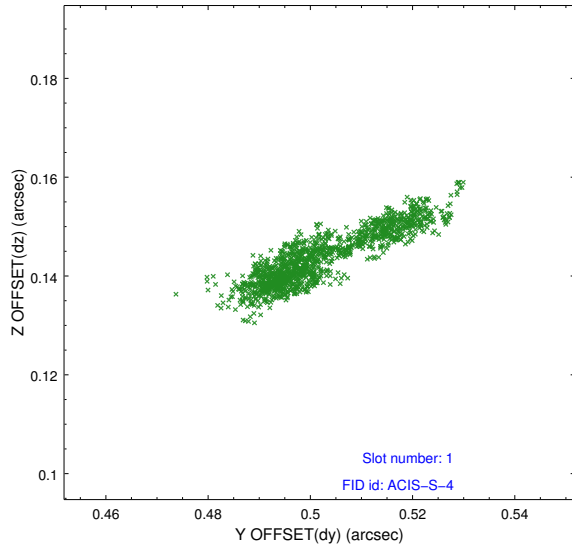


2.5 FID Slots

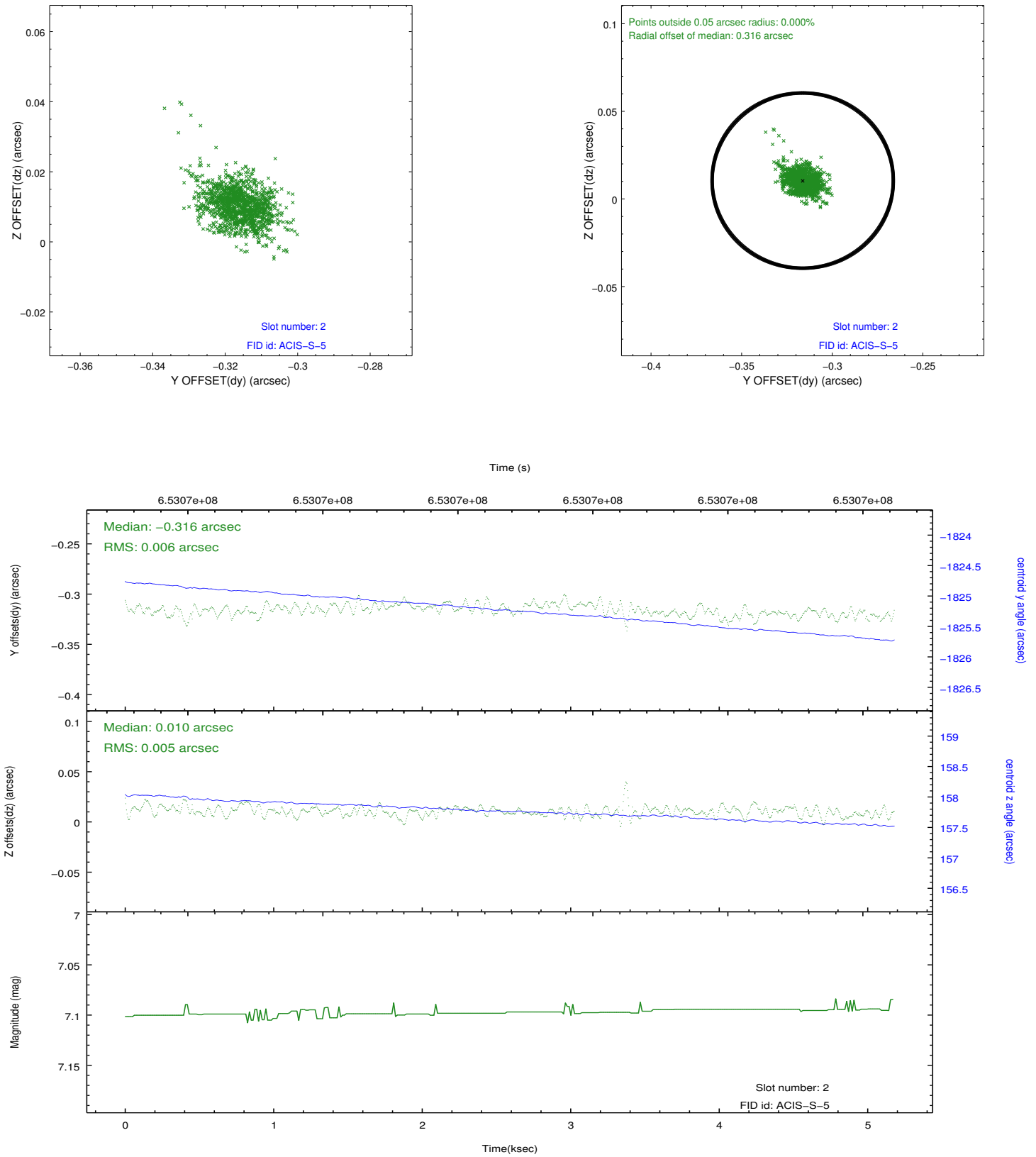
2.5.1 Slot 0



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)	2018.09.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1708000398874

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.