

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17702 - L2 Version 1
Chandra X-Ray Center

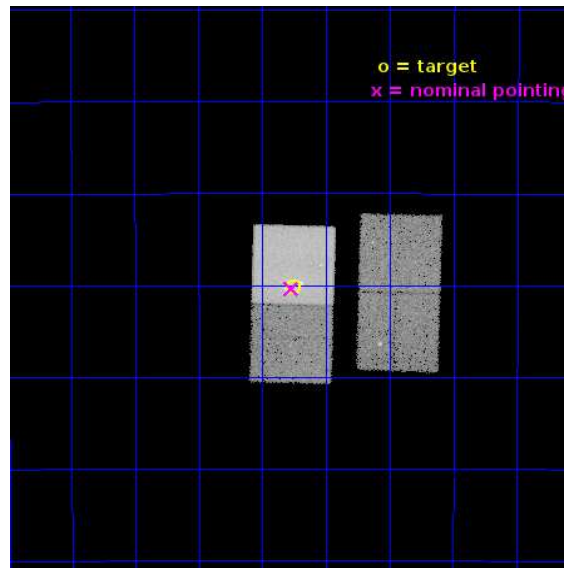
L2 Processing Date : Jul 15 2015

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1 Front

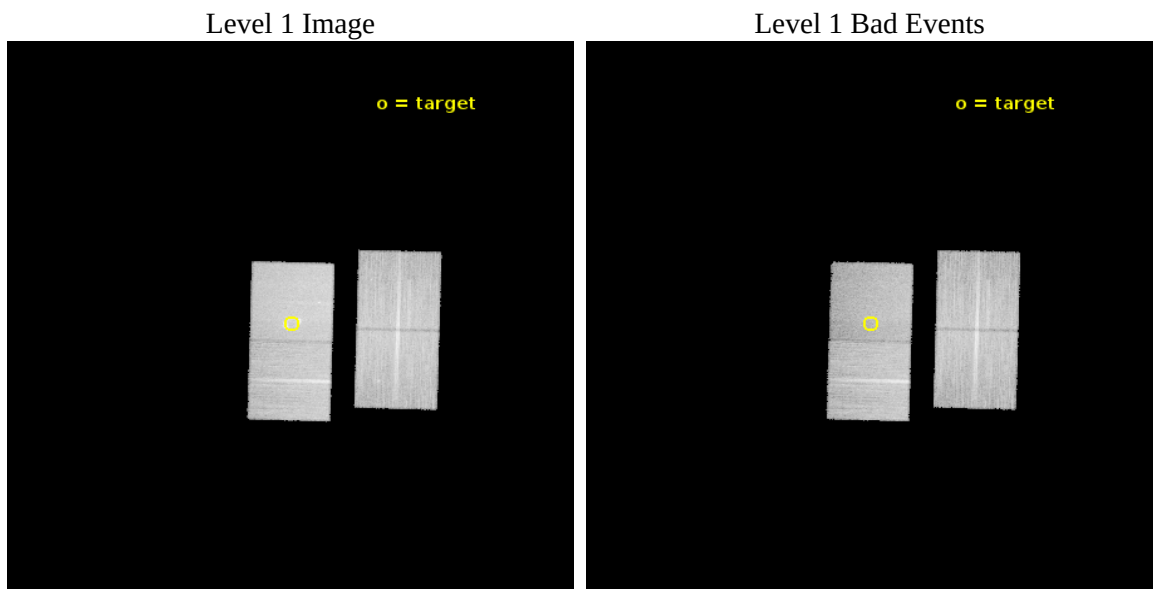
seq_num	502465	Sequence number
obs_id	17702	Observation id
title	Nonuniform expansion and brightening of the youngest Galactic SNR G1.9+0.3	Proposal title
observer	Dr. Kazimierz Borkowski	Principal investigator
object	G1.9+0.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.189167	Observer's specified target RA [deg]
dec_targ	-27.168889	Observer's specified target Dec [deg]
ra_nom	267.193144213	Nominal RA [deg]
dec_nom	-27.173025496664	Nominal Dec [deg]
roll_nom	271.55844817356	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37426.300287962	Sum of GTIs [s]
livetime	36937.298121858	Livetime [s]
ontime2	37423.159227729	Sum of GTIs [s]
ontime3	37423.15922761	Sum of GTIs [s]
ontime6	37423.159227729	Sum of GTIs [s]
ontime7	37426.300287962	Sum of GTIs [s]
l2events	162713	Number of level 2 events



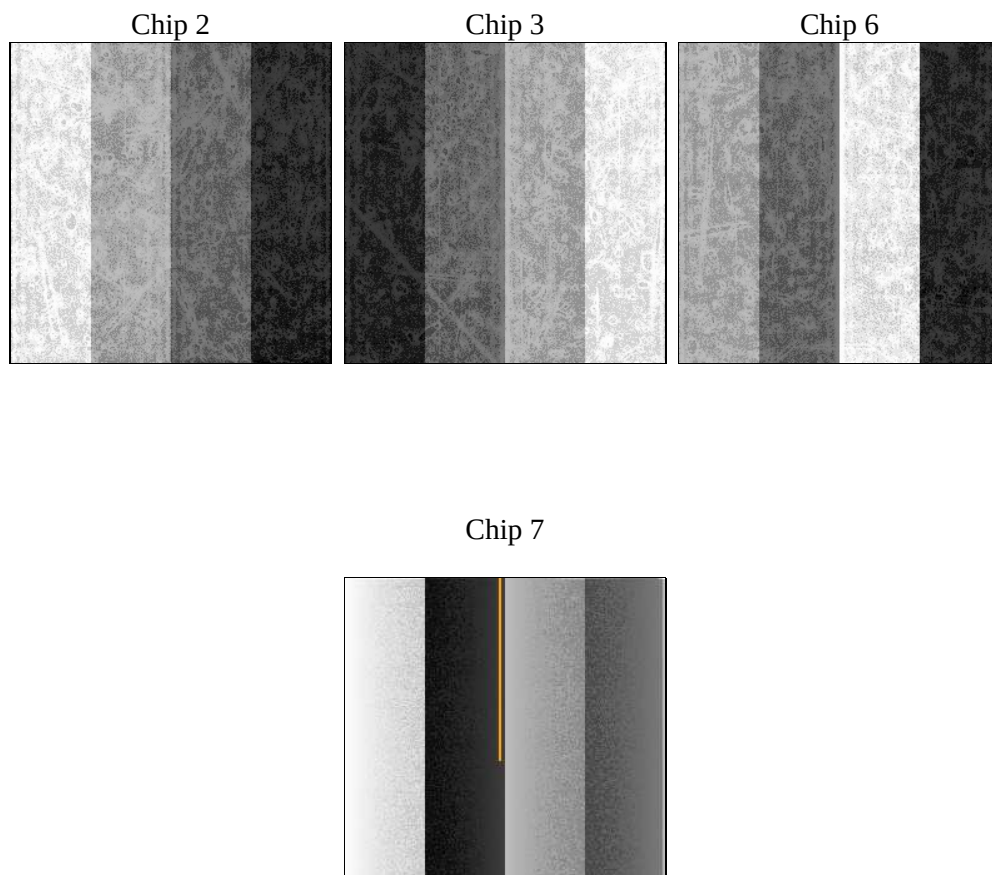
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37351.476000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	37426.300287962	Sum of GTIs [s]
caldbver	4.6.8	 	ontime2	37423.159227729	Sum of GTIs [s]
date	2015-07-15T23:24:15	Date and time of file creation	ontime3	37423.15922761	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	37423.159227729	Sum of GTIs [s]
			ontime7	37426.300287962	Sum of GTIs [s]
			l1events	751039	Number of level 1 events

2.1.4 Events

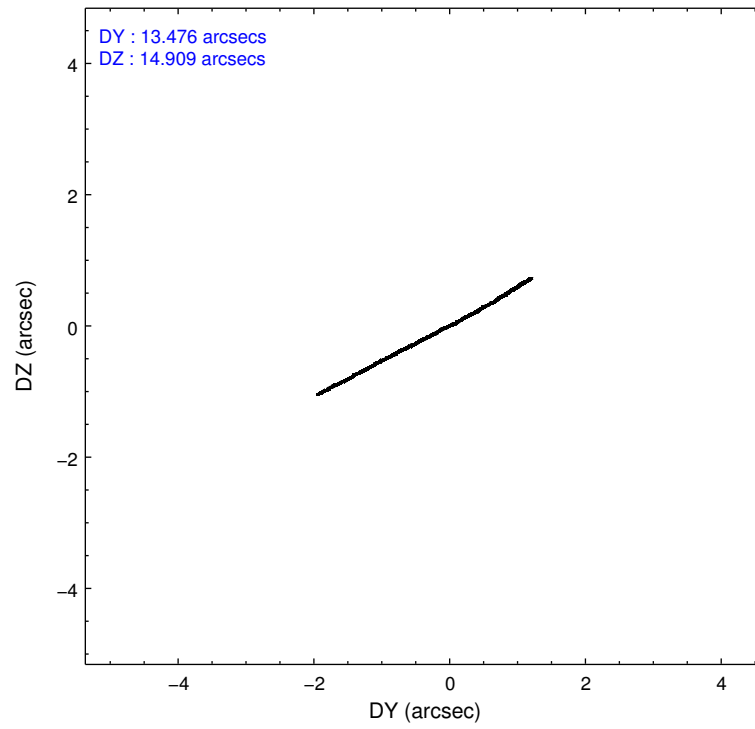
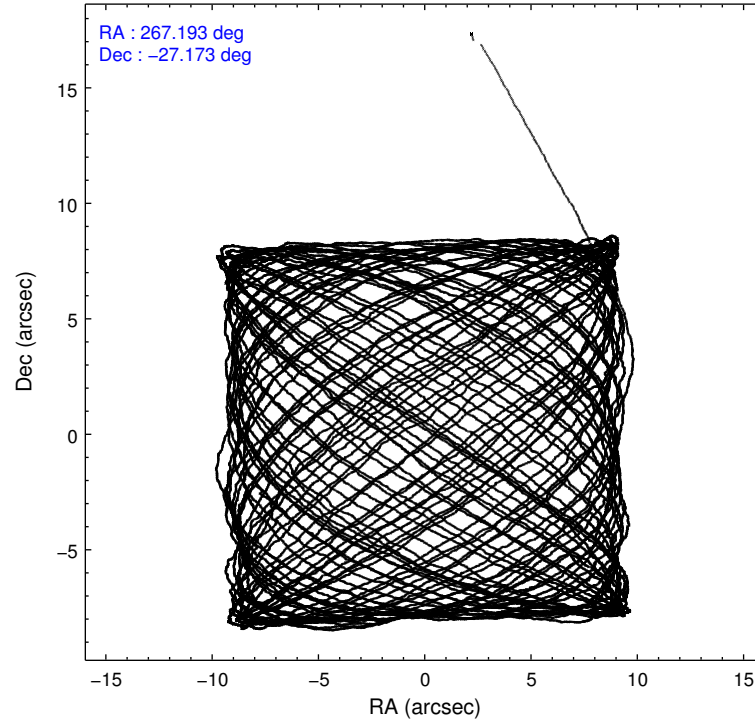
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	177223	172845	182975	217996
rejected events	155983	151155	159504	110974
rejected %	88%	87%	87%	50%

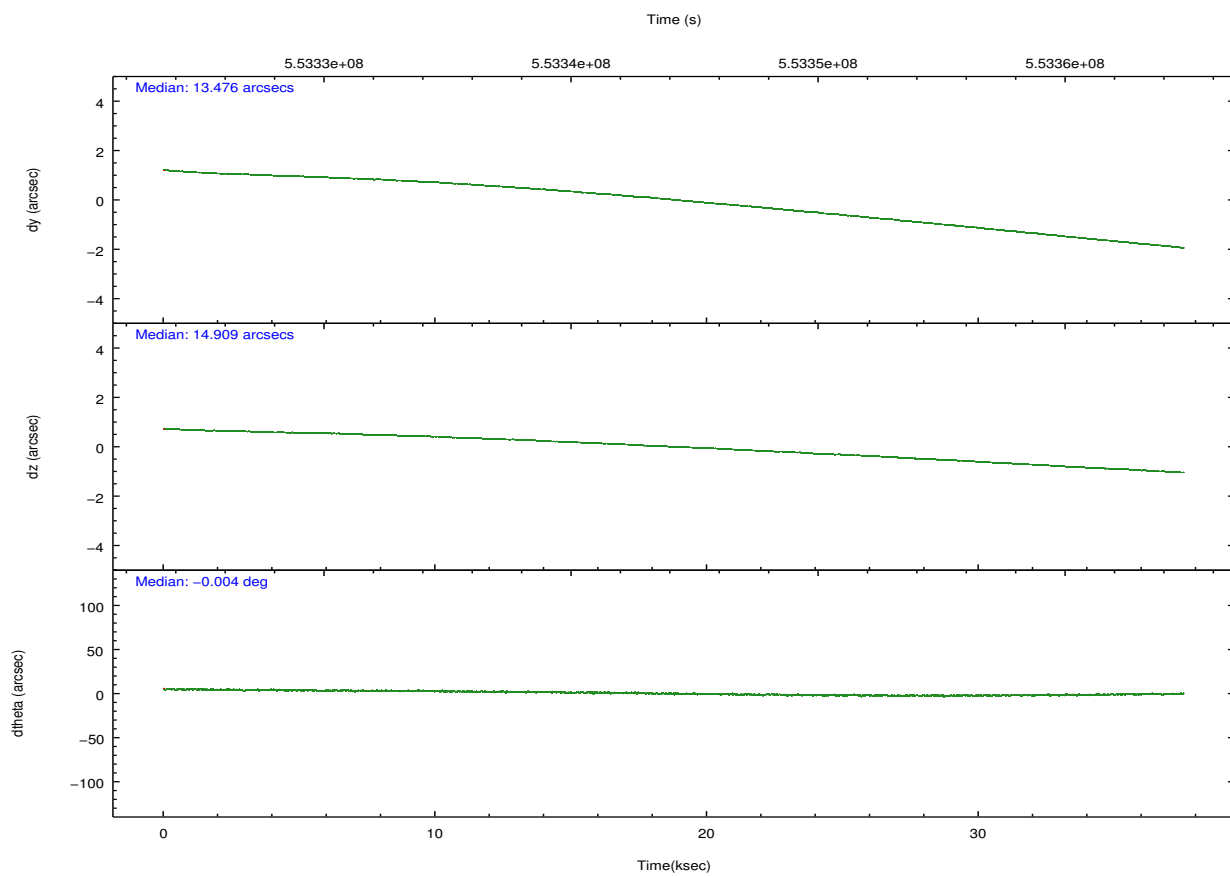
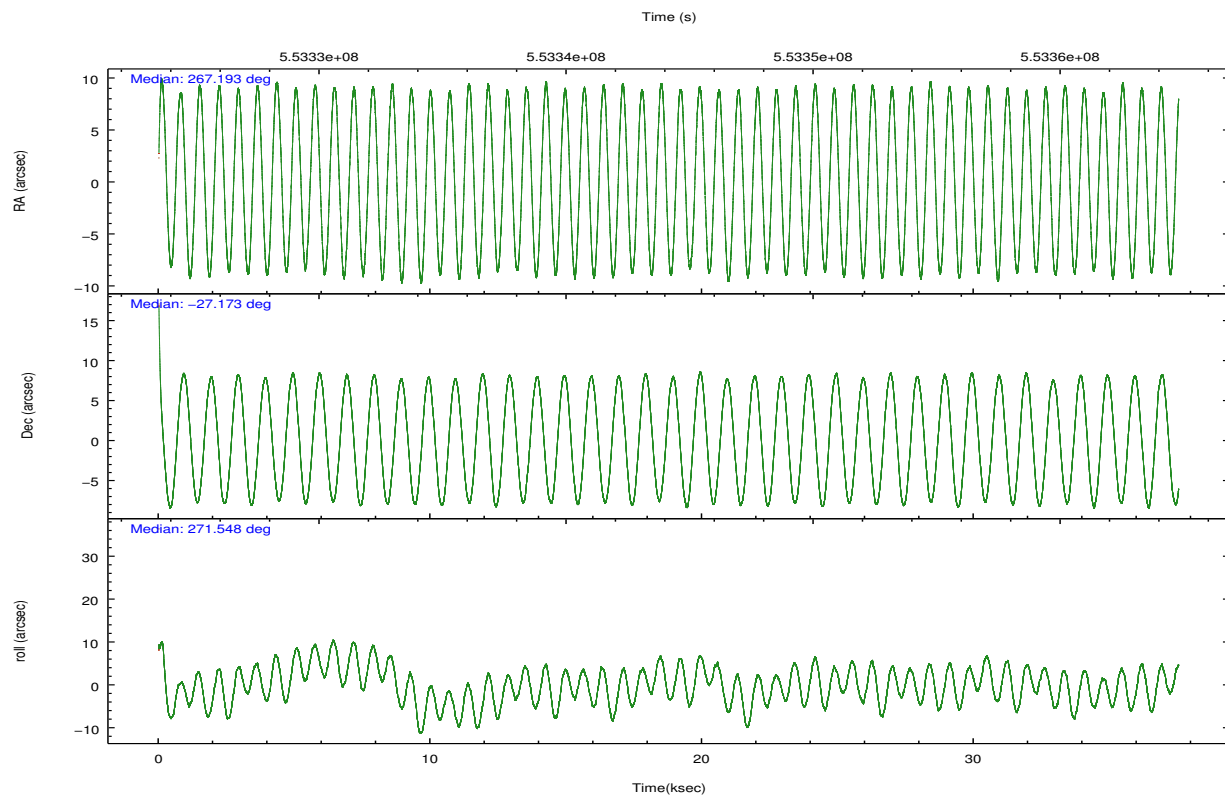
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	8765	9097	8931	10910
	4%	5%	4%	5%
grade 1 events	103	108	87	283
	0%	0%	0%	0%
grade 2 events	4817	4331	5353	23418
	2%	2%	2%	10%
grade 3 events	2040	2141	2159	9047
	1%	1%	1%	4%
grade 4 events	2023	2160	2149	8996
	1%	1%	1%	4%
grade 5 events	6118	7711	7710	20923
	3%	4%	4%	9%
grade 6 events	3596	3962	4883	54668
	2%	2%	2%	25%
grade 7 events	149761	143335	151703	89751
	84%	82%	82%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	267.176656	267.1931442129954	CCD I2 on	O1	Y
[deg] Pointing Dec	-27.149823	-27.17302549666381	CCD I3 on	O2	Y
[deg] Pointing Roll	271.394291	271.5584481735631	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	N	N
[s] Observation start time (MET)	553325591.184000	553324130.53426	CCD S5 on	N	N
Observation start date	2015-07-15T05:32:03	2015-07-15T05:08:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	553362942.184000	553363154.84895	On-chip summing requested	N	N
Observation end date	2015-07-15T15:54:34	2015-07-15T15:59:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



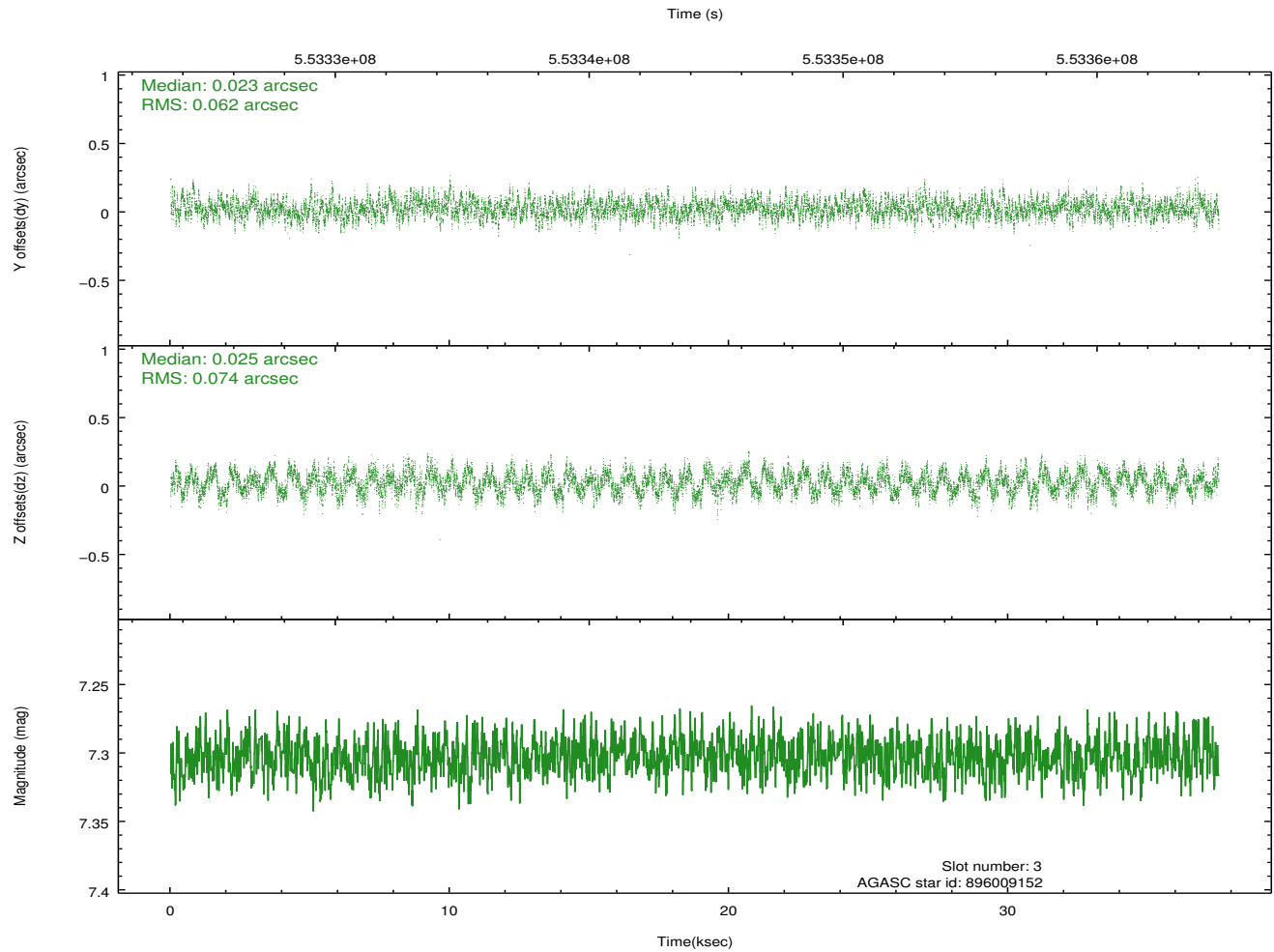
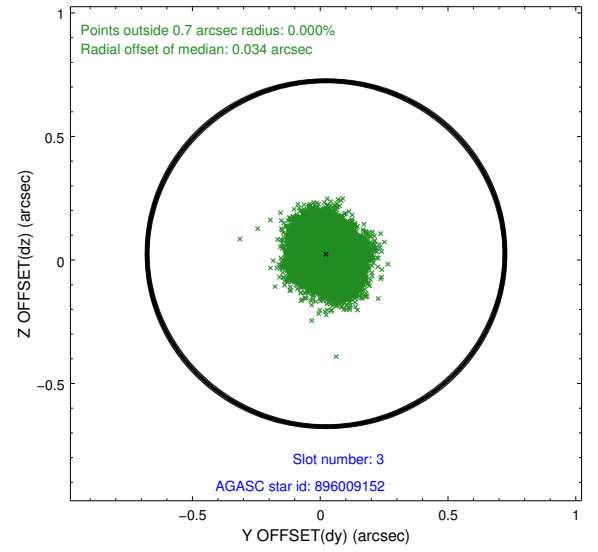
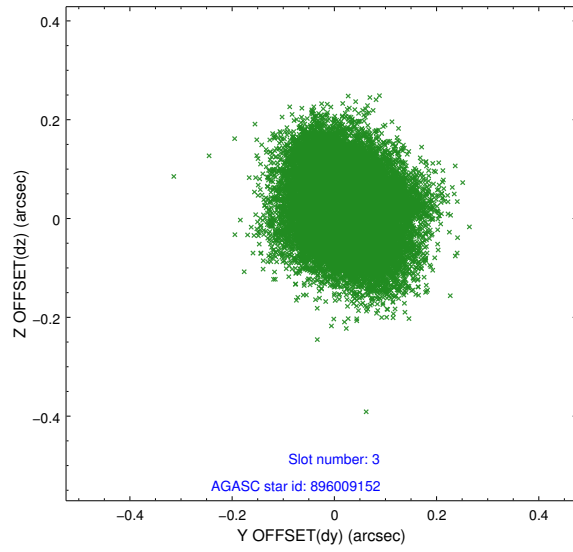


Slot Statistics

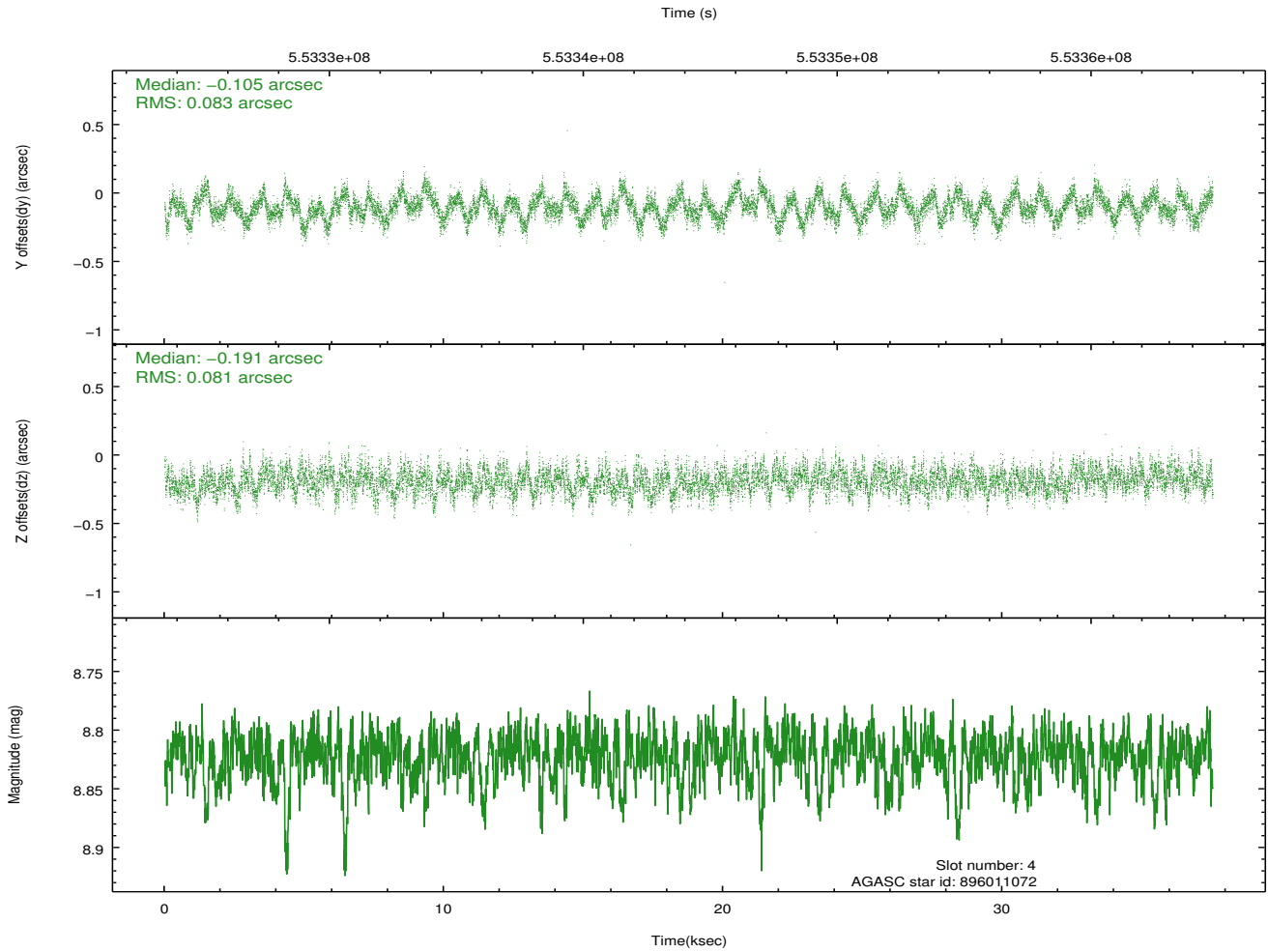
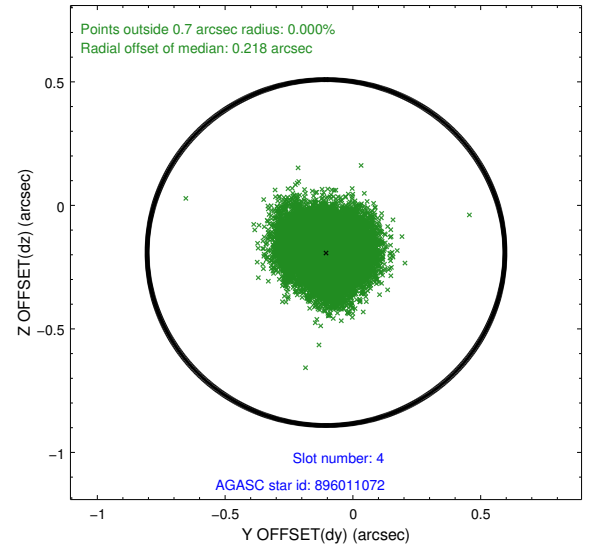
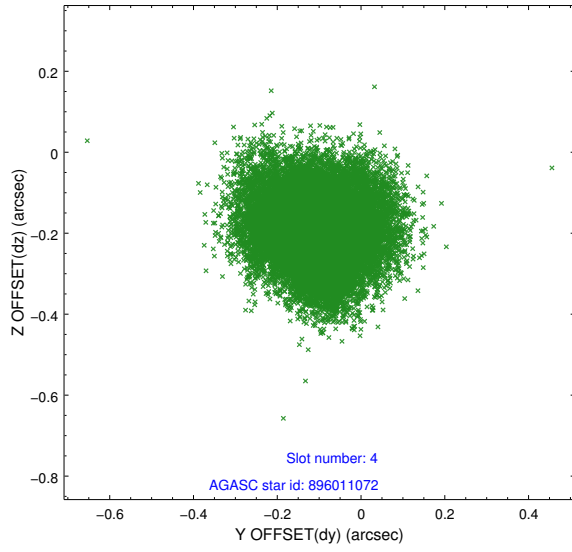
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	9156	-0.166	-0.096	0.032	0.042	0.000000	0.000000	-766.45	-1736.32
1	FID		ACIS-S-4	7.17	9156	0.216	0.088	0.025	0.033	0.000000	0.000000	2147.21	172.29
2	FID		ACIS-S-6	7.32	9155	-0.077	0.015	0.011	0.017	0.000000	0.000000	395.68	809.66
3	GUIDE	used	896009152	7.30	18310	0.023	0.025	0.105	0.160	267.588100	-27.061669	-282.26	1326.11
4	GUIDE	used	896011072	8.82	18304	-0.105	-0.191	0.126	0.197	267.780553	-27.396374	940.45	1907.18
5	GUIDE	used	896012968	8.67	18304	-0.067	-0.120	0.130	0.201	266.634547	-27.600471	1584.14	-1768.22
6	GUIDE	used	896013040	7.34	18310	0.130	0.164	0.084	0.137	266.506589	-26.972299	-684.64	-2133.75
7	GUIDE	used	896014528	7.68	18305	0.019	0.116	0.076	0.121	266.628858	-27.438607	1001.15	-1774.83

2.4 Star Slots

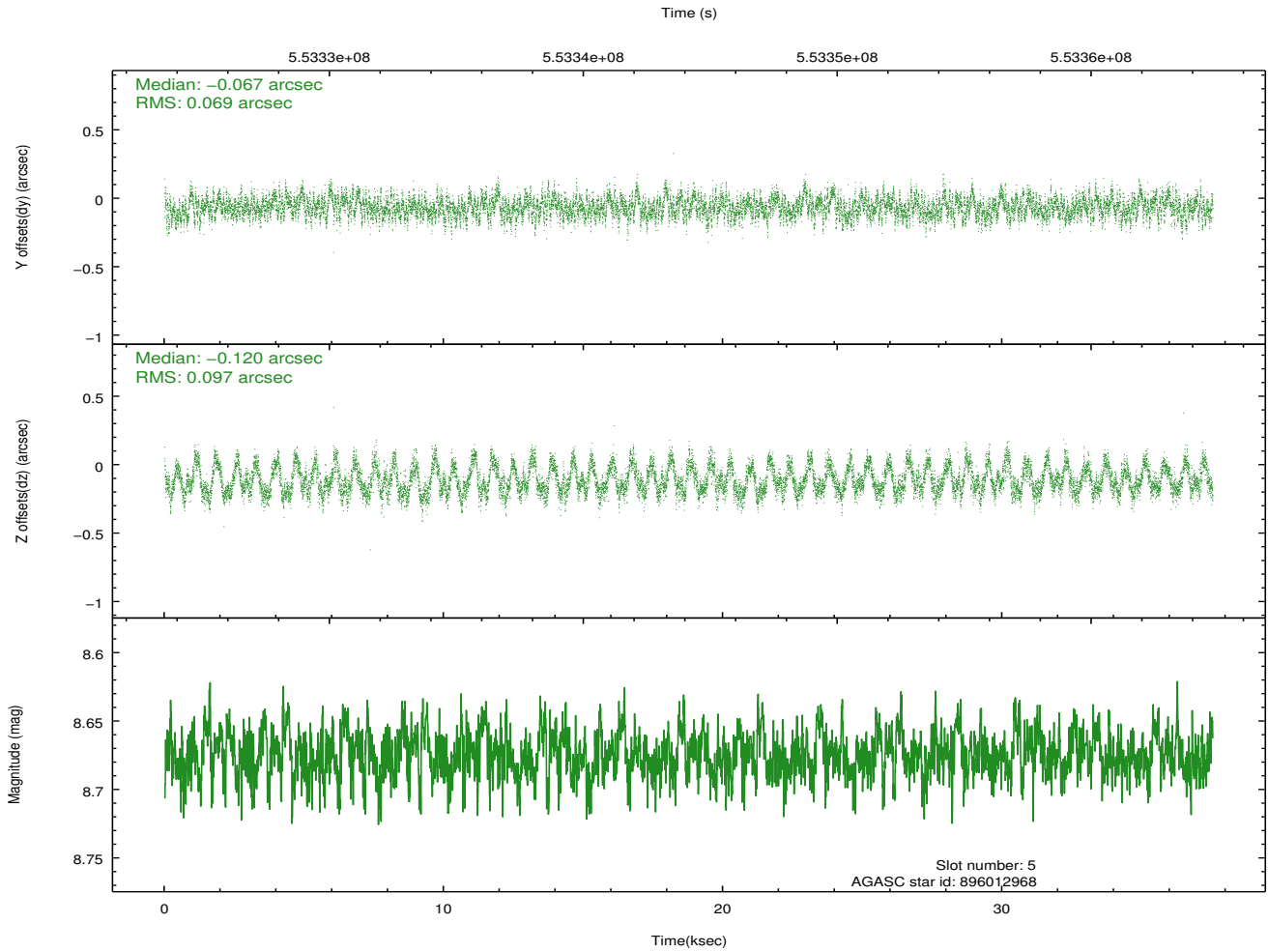
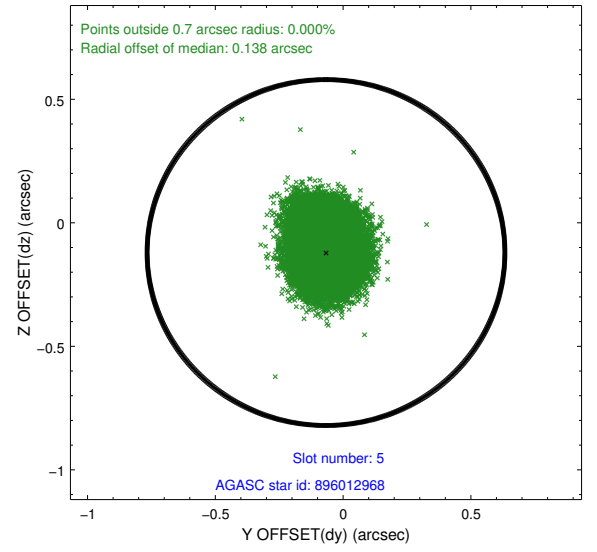
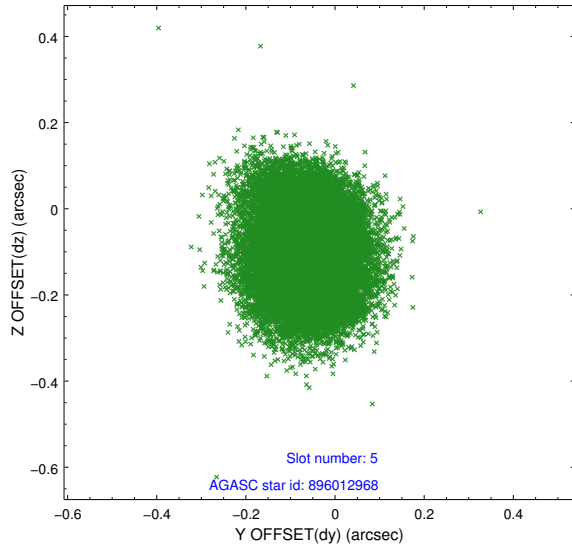
2.4.1 Slot 3



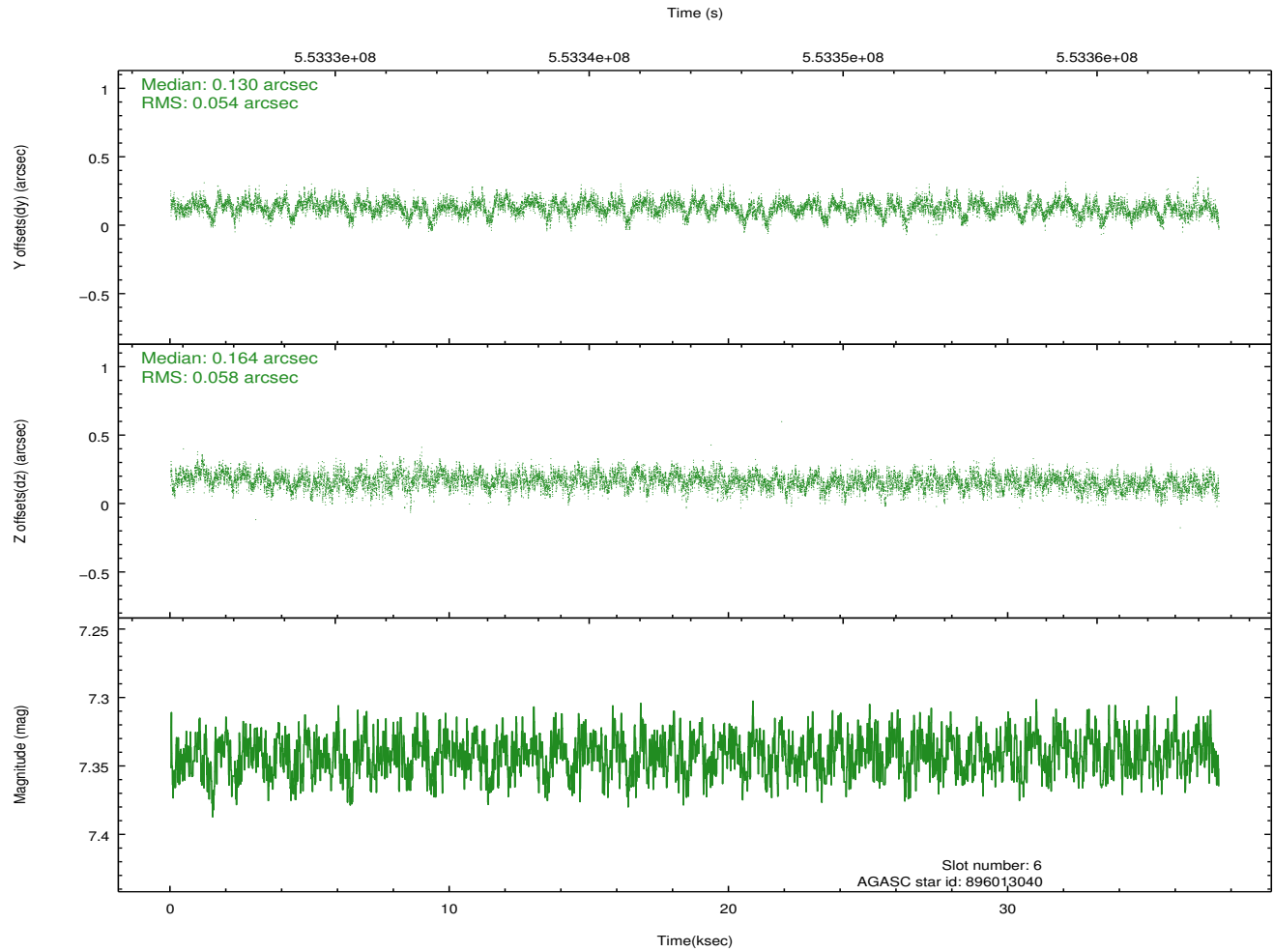
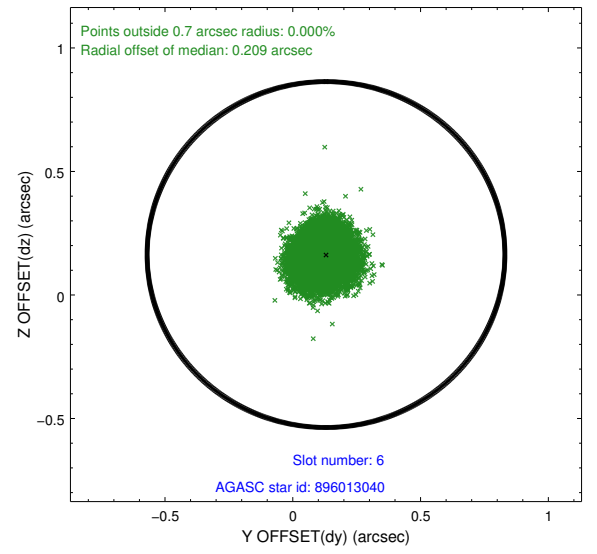
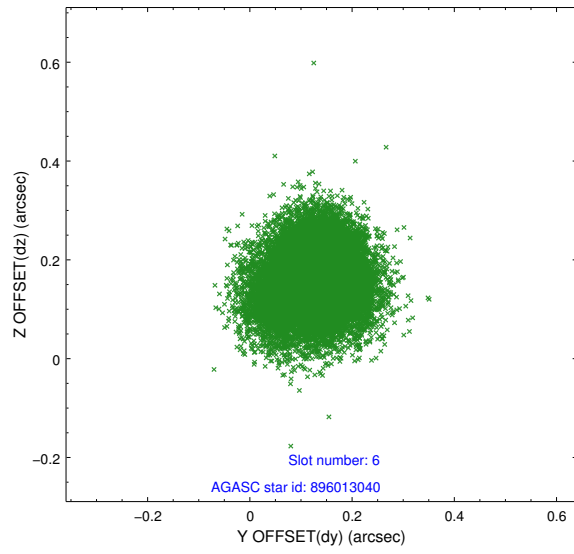
2.4.2 Slot 4



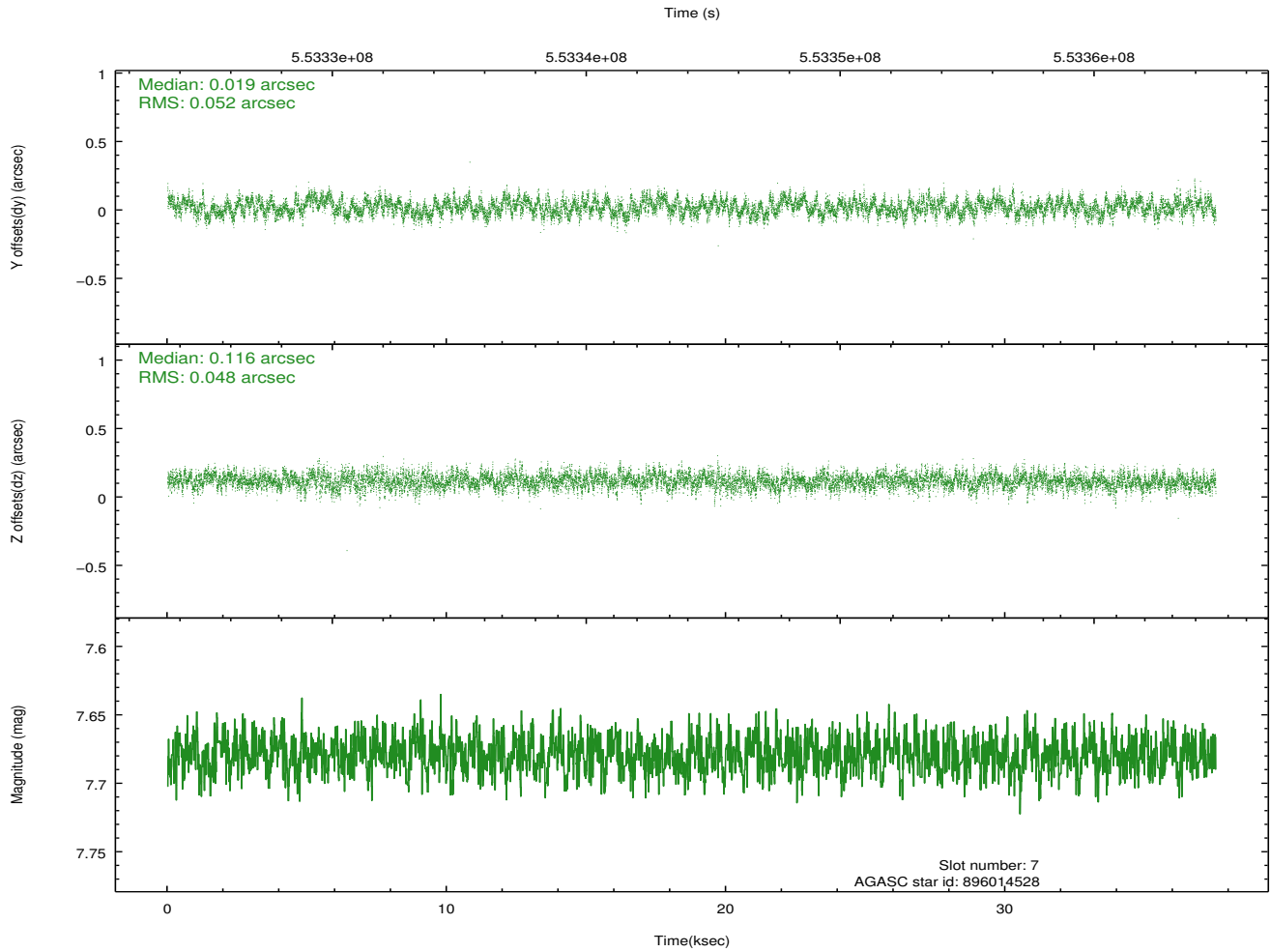
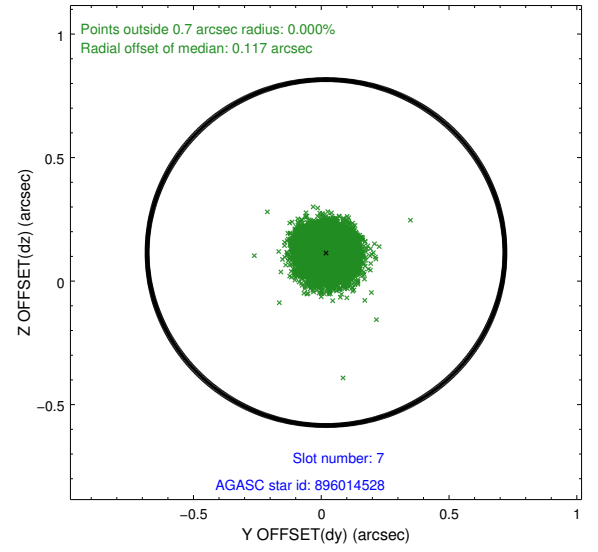
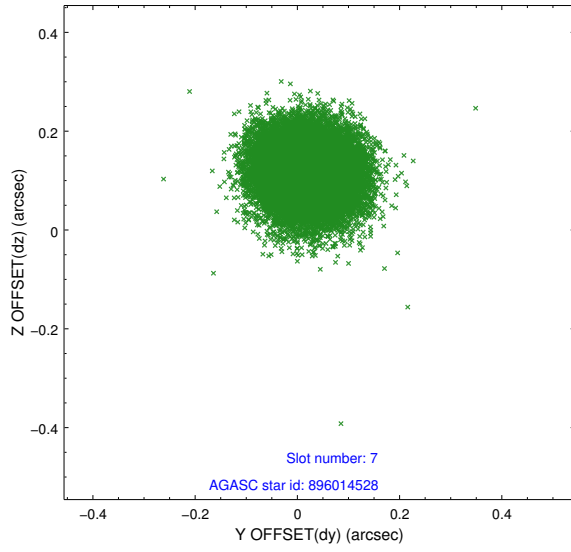
2.4.3 Slot 5



2.4.4 Slot 6

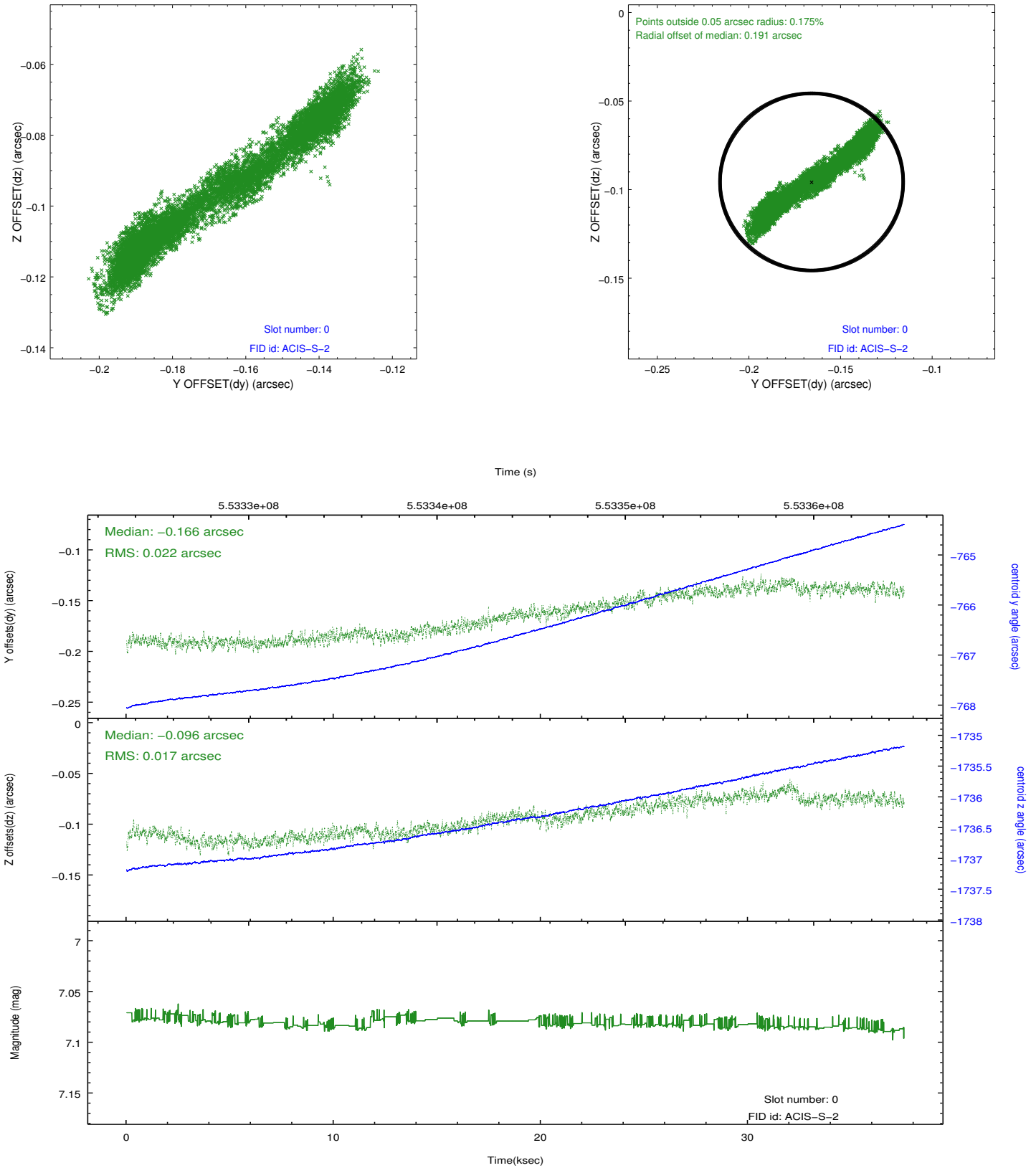


2.4.5 Slot 7

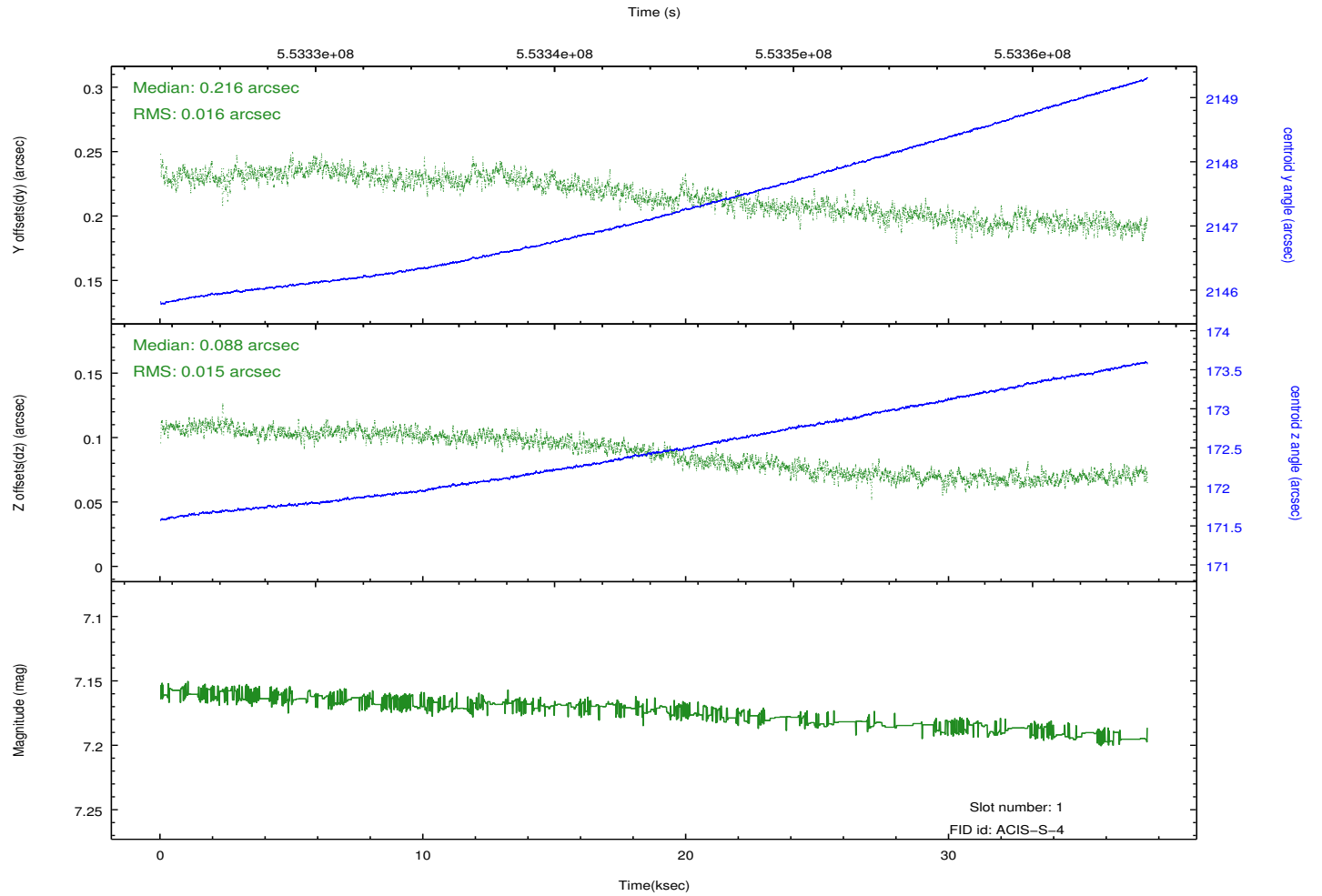
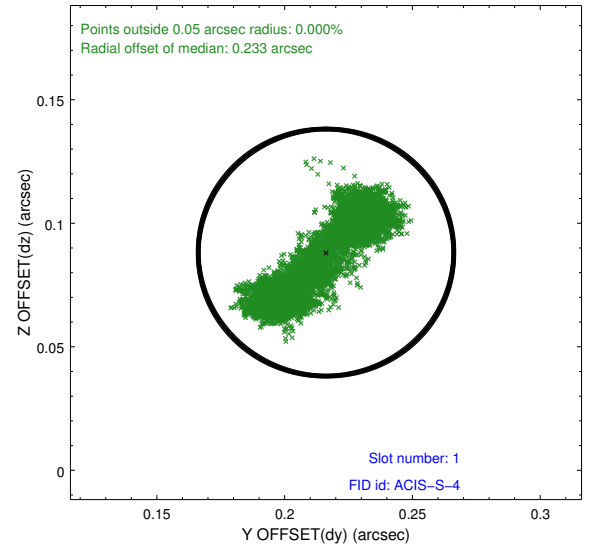
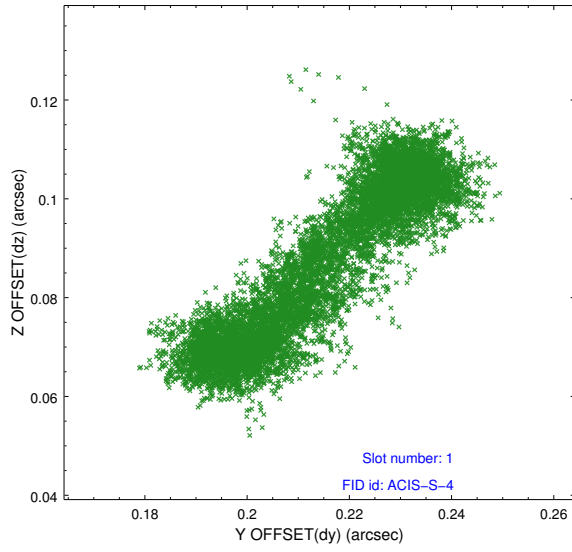


2.5 FID Slots

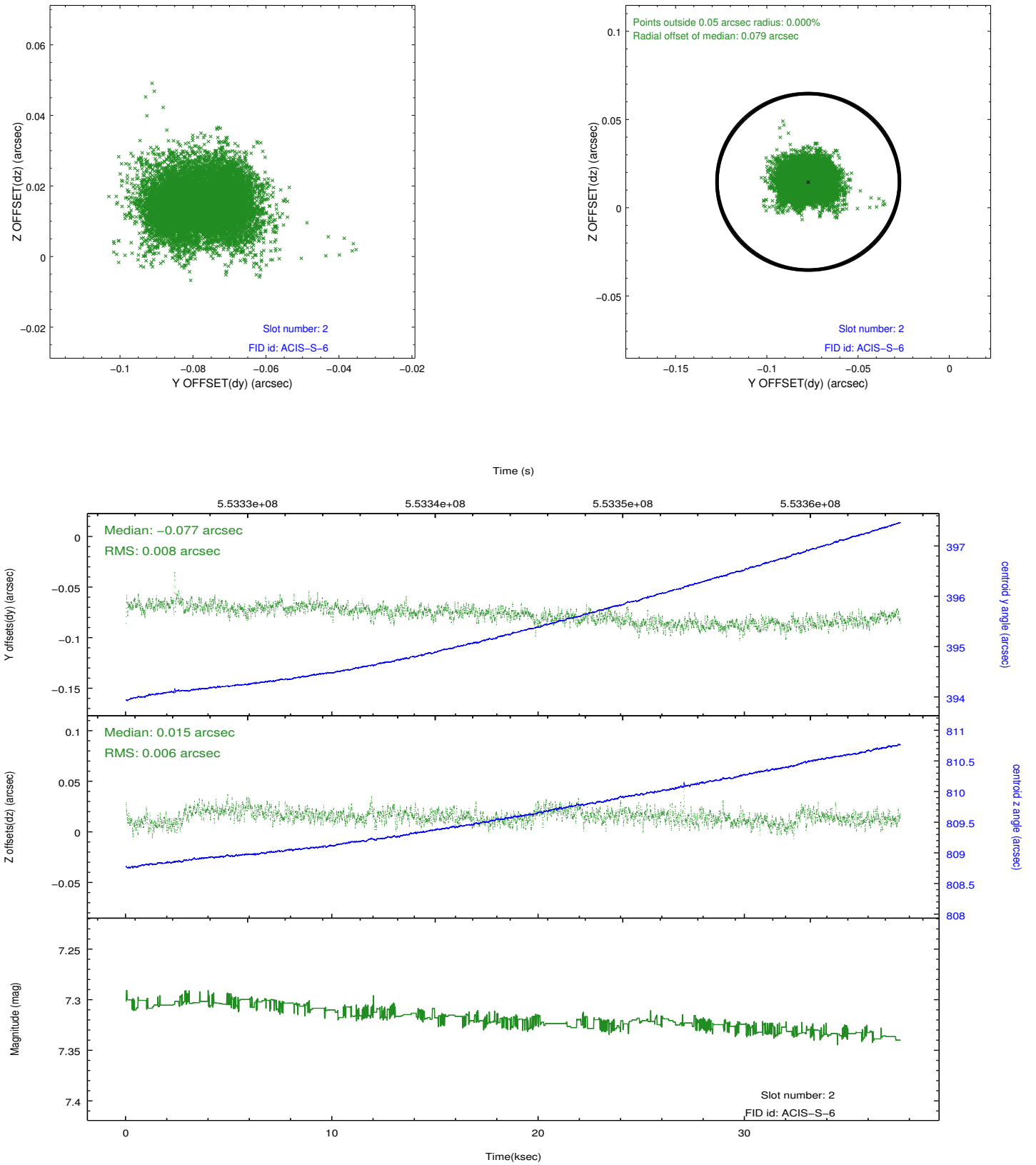
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.07.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.426300287962

A.2 Comments