

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18041 - L2 Version 1
Chandra X-Ray Center

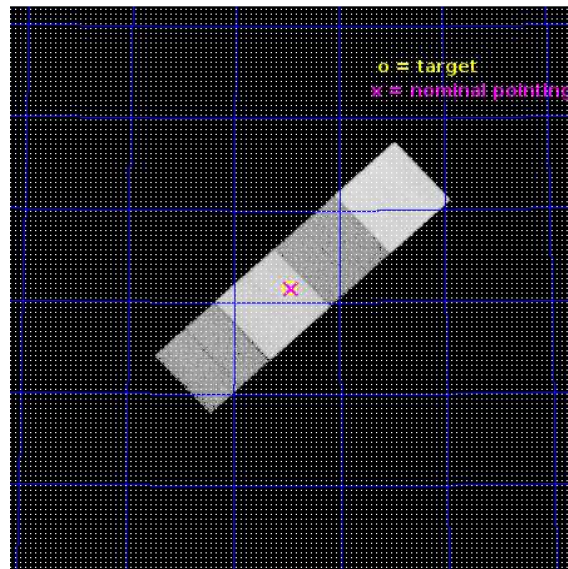
L2 Processing Date : May 12 2017

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1 Front

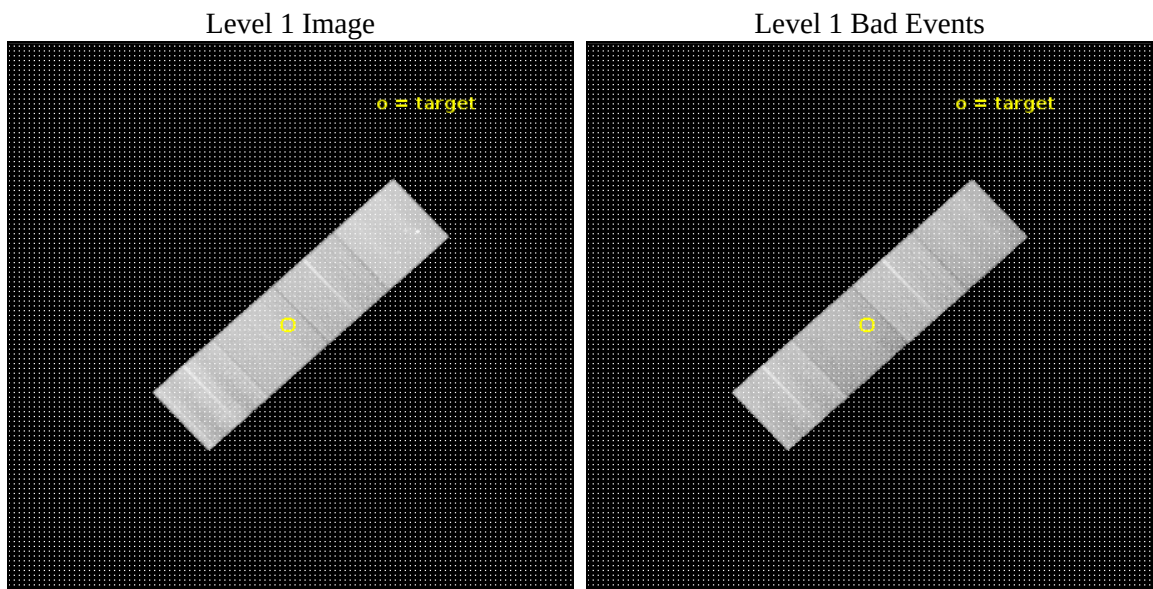
seq_num	601227	Sequence number
obs_id	18041	Observation id
title	The X-Ray Population of the Colliding Galaxy Pair Arp 81	Proposal
observer	Saul Rappaport	Principal investigator
object	Arp 81	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	273.24	Observer's specified target RA [deg]
dec_targ	68.358889	Observer's specified target Dec [deg]
ra_nom	273.22885547179	Nominal RA [deg]
dec_nom	68.358100016128	Nominal Dec [deg]
roll_nom	137.16699091932	Nominal Roll [deg]
revision	1	Processing version of data
ontime	43874.300337553	Sum of GTIs [s]
livetime	43301.050303853	Livetime [s]
ontime5	43874.300337553	Sum of GTIs [s]
ontime6	43874.300337553	Sum of GTIs [s]
ontime7	43874.300337553	Sum of GTIs [s]
ontime8	43874.300337553	Sum of GTIs [s]
l2events	410911	Number of level 2 events



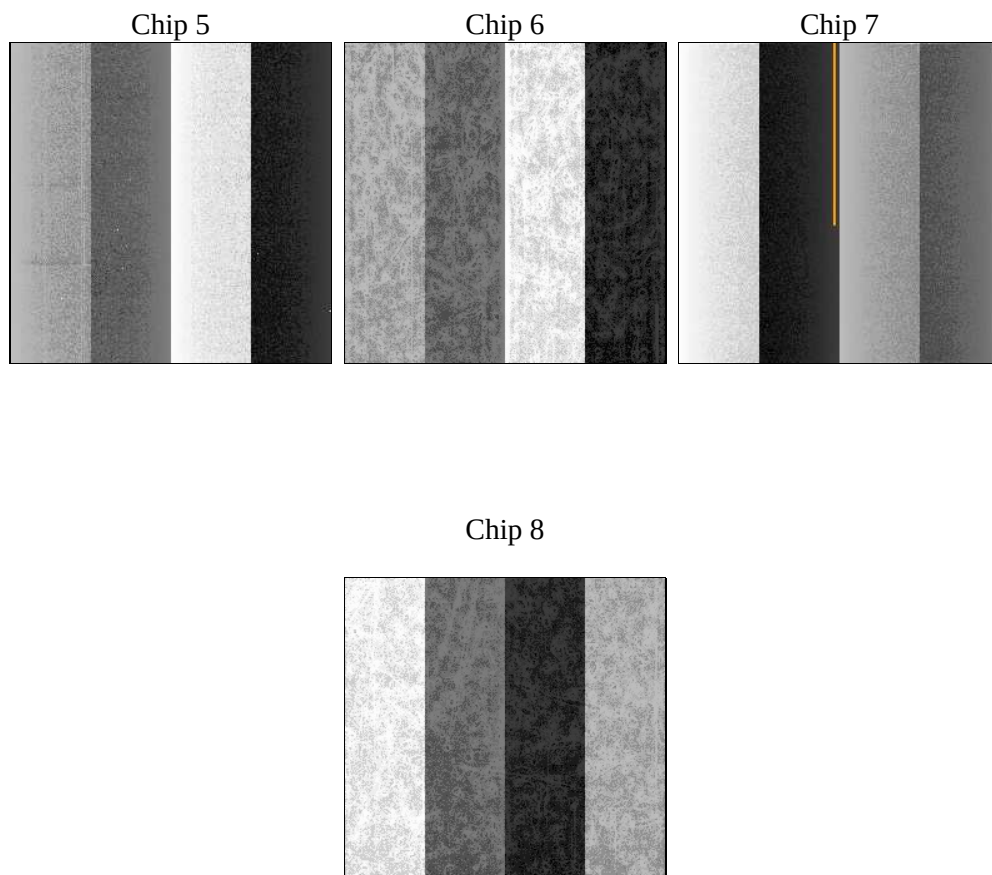
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	43815.620000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	43874.300337553	Sum of GTIs [s]
caldsver	4.7.4	 	ontime5	43874.300337553	Sum of GTIs [s]
date	2017-05-12T06:18:42	Date and time of file creation	ontime6	43874.300337553	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	43874.300337553	Sum of GTIs [s]
			ontime8	43874.300337553	Sum of GTIs [s]
			l1events	1411491	Number of level 1 events

2.1.4 Events

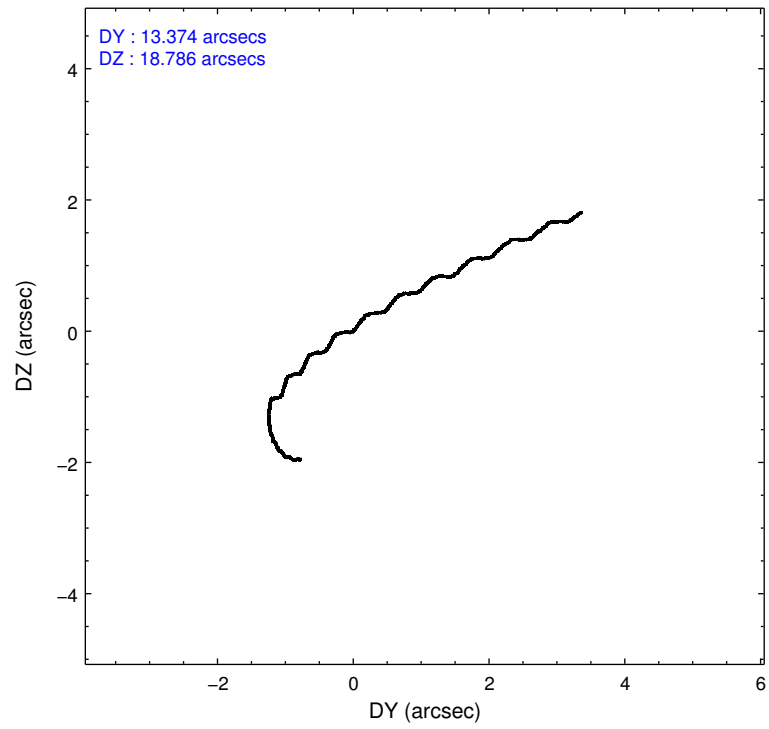
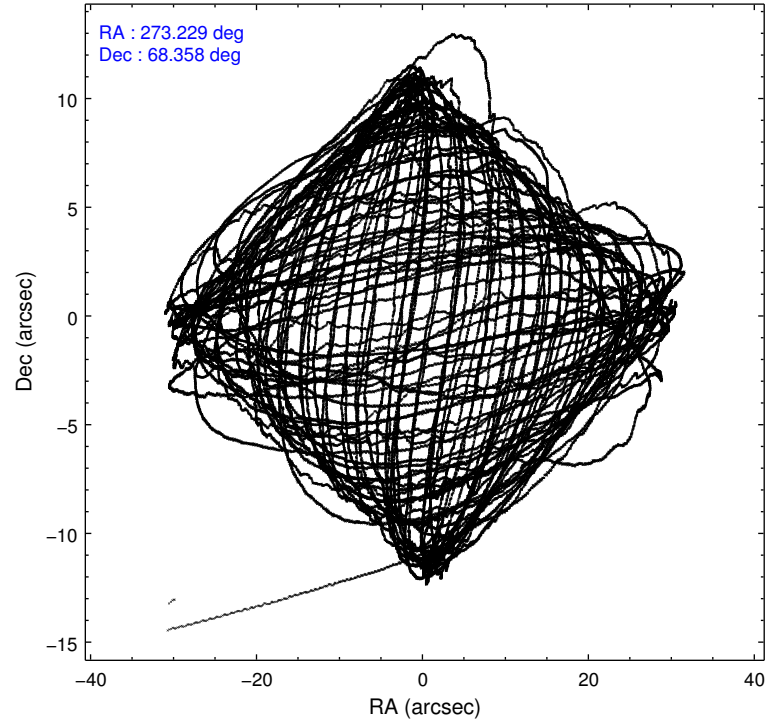
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	417937	298478	319953	375123
rejected events	203873	265798	169047	269736
rejected %	48%	89%	52%	71%

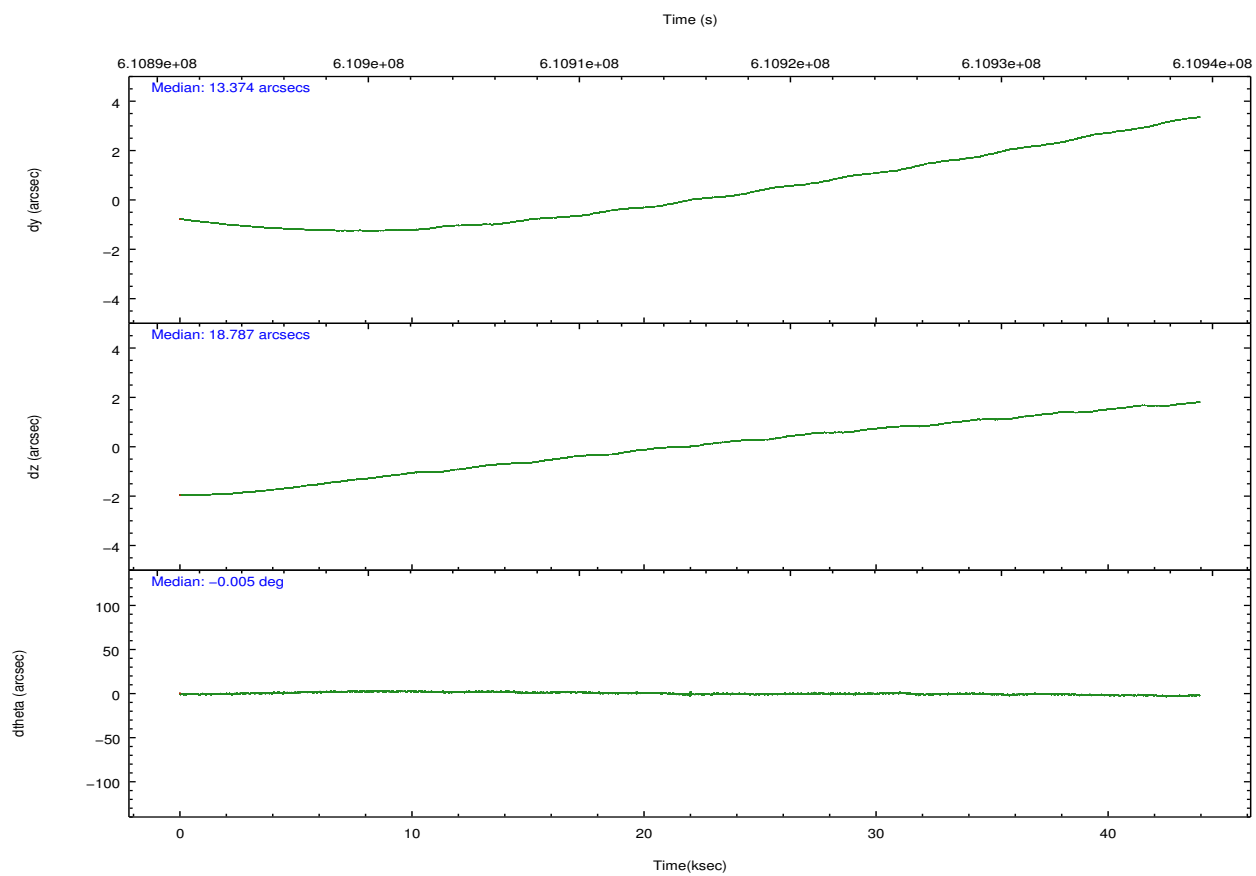
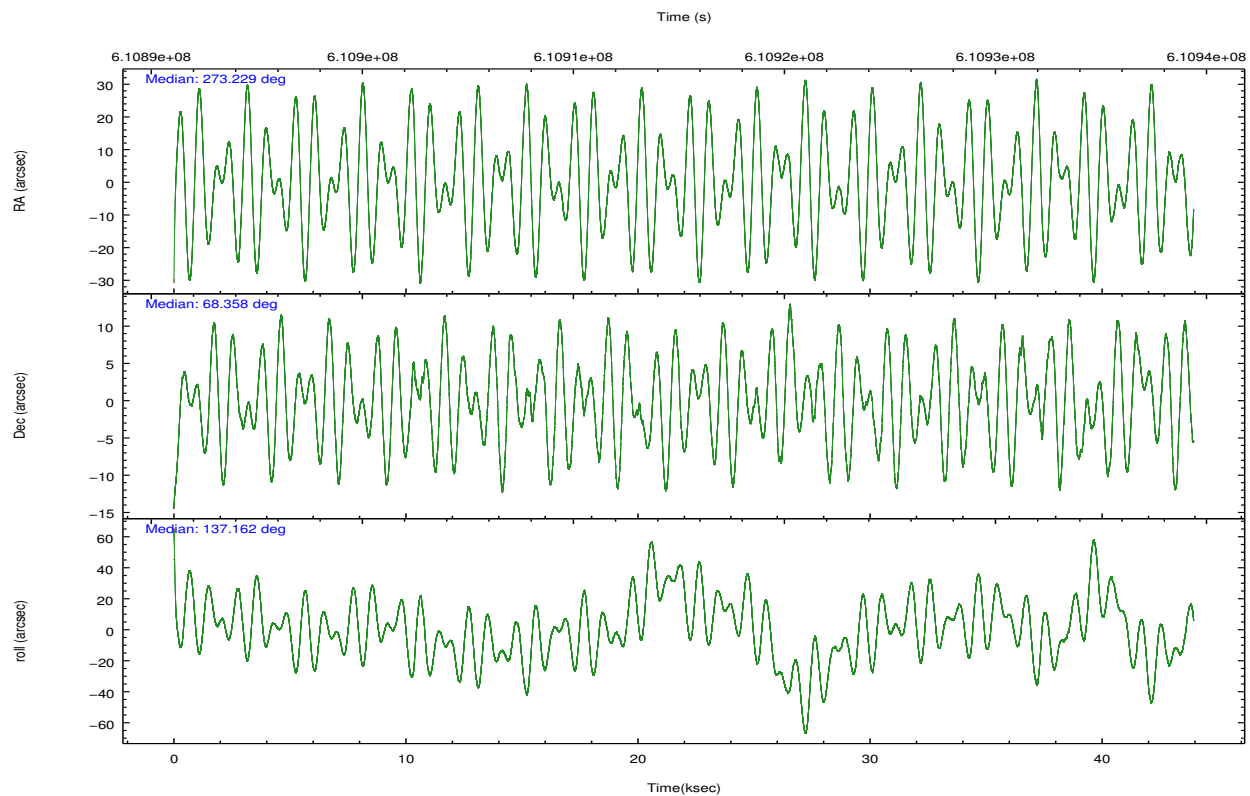
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	15486	11160	13677	29261
	3%	3%	4%	7%
grade 1 events	1399	133	510	310
	0%	0%	0%	0%
grade 2 events	68132	7962	33956	25760
	16%	2%	10%	6%
grade 3 events	7586	3111	12078	11145
	1%	1%	3%	2%
grade 4 events	7612	3203	11939	10448
	1%	1%	3%	2%
grade 5 events	30488	11500	31728	18476
	7%	3%	9%	4%
grade 6 events	115260	7246	79266	28779
	27%	2%	24%	7%
grade 7 events	171974	254163	136799	250944
	41%	85%	42%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	273.301602	273.2288554717864	CCD I2 on	N	N
[deg] Pointing Dec	68.352345	68.35810001612795	CCD I3 on	N	N
[deg] Pointing Roll	136.942745	137.1669909193209	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	610893403.184000	610892081.82986	CCD S5 on	N	N
Observation start date	2017-05-11T12:35:34	2017-05-11T12:14:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	610937219.184000	610937438.0825	On-chip summing requested	N	N
Observation end date	2017-05-12T00:45:50	2017-05-12T00:50:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



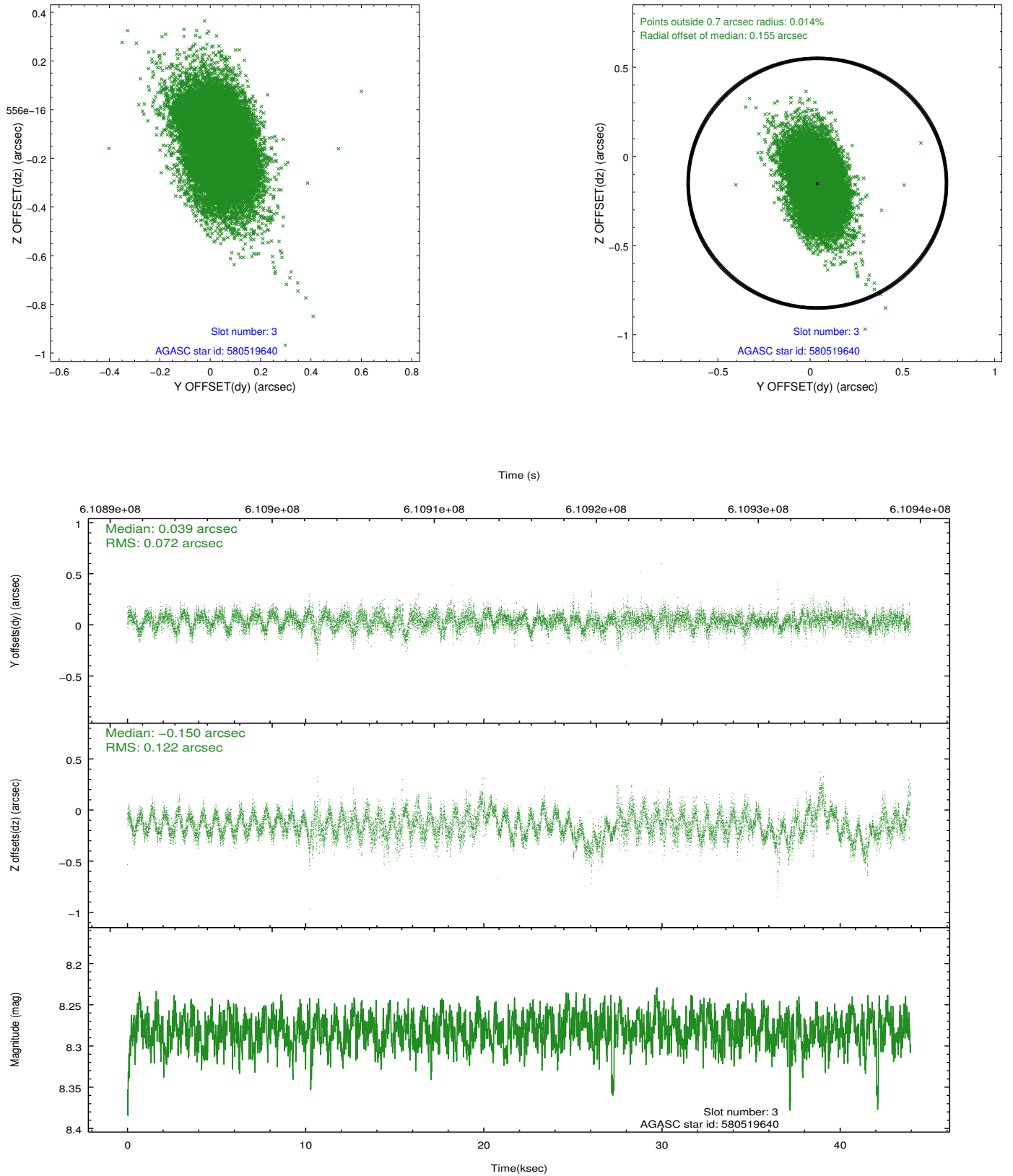


Slot Statistics

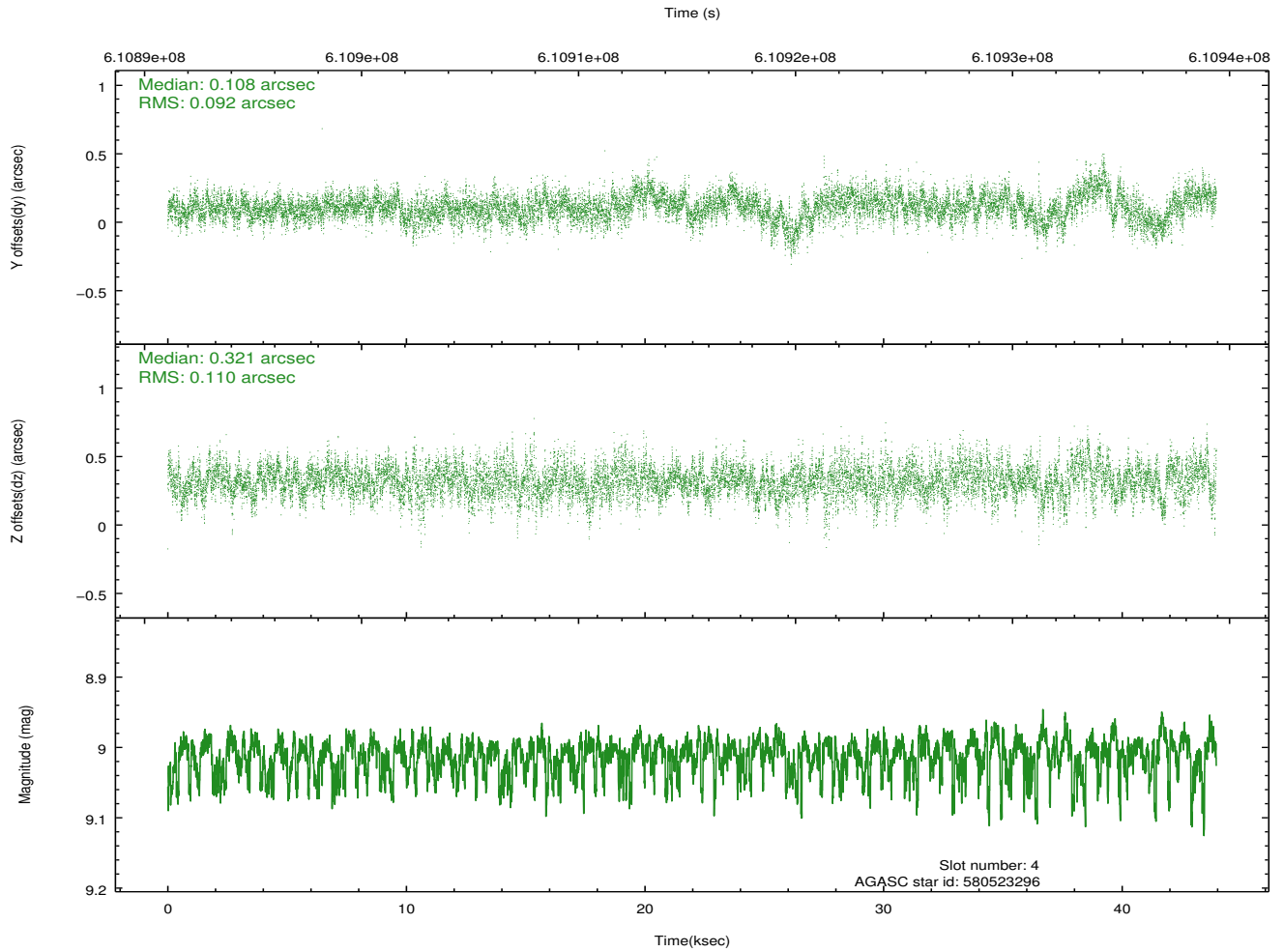
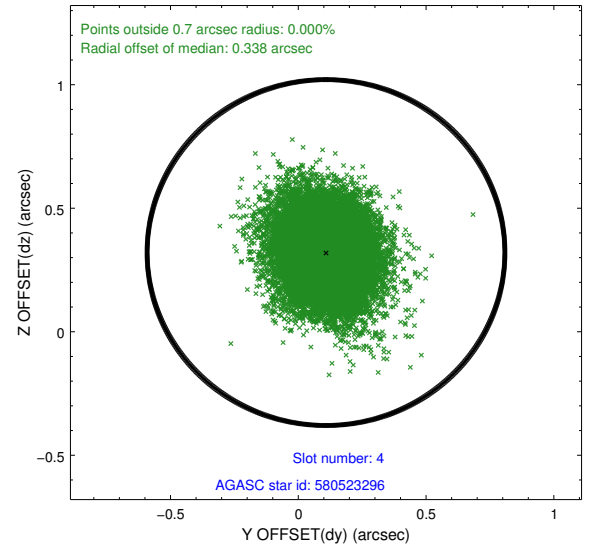
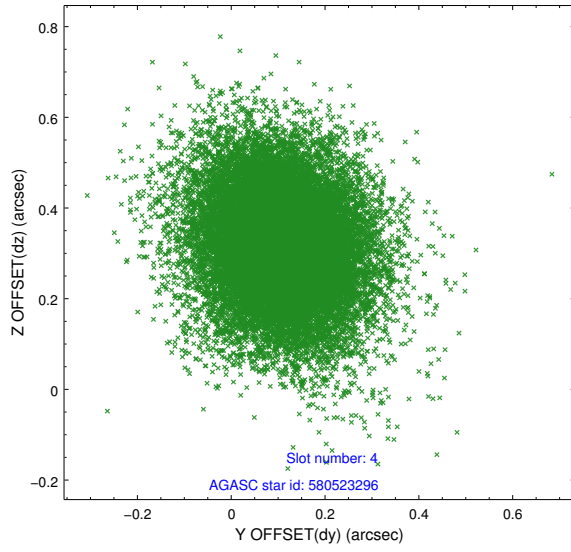
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	10718	-0.150	-0.108	0.053	0.082	0.000000	0.000000	-766.80	-1740.30
1	FID		ACIS-S-4	7.17	10719	0.448	0.102	0.043	0.055	0.000000	0.000000	2147.06	168.44
2	FID		ACIS-S-5	7.16	10718	-0.313	0.015	0.035	0.062	0.000000	0.000000	-1819.82	161.95
3	GUIDE	used	580519640	8.28	21431	0.039	-0.150	0.142	0.255	272.207004	68.580455	1620.92	374.11
4	GUIDE	used	580523296	9.01	21413	0.108	0.321	0.148	0.255	273.398543	68.638971	612.09	-840.17
5	GUIDE	used	580529216	8.37	21429	-0.150	-0.273	0.140	0.264	272.505547	67.781931	-606.78	2235.94
6	GUIDE	used	580532080	8.99	21418	0.105	0.278	0.153	0.275	274.203828	68.121720	-1444.64	-225.68
7	GUIDE	used	580527528	8.59	21423	-0.104	-0.180	0.116	0.215	272.064476	68.419932	1373.64	927.68

2.4 Star Slots

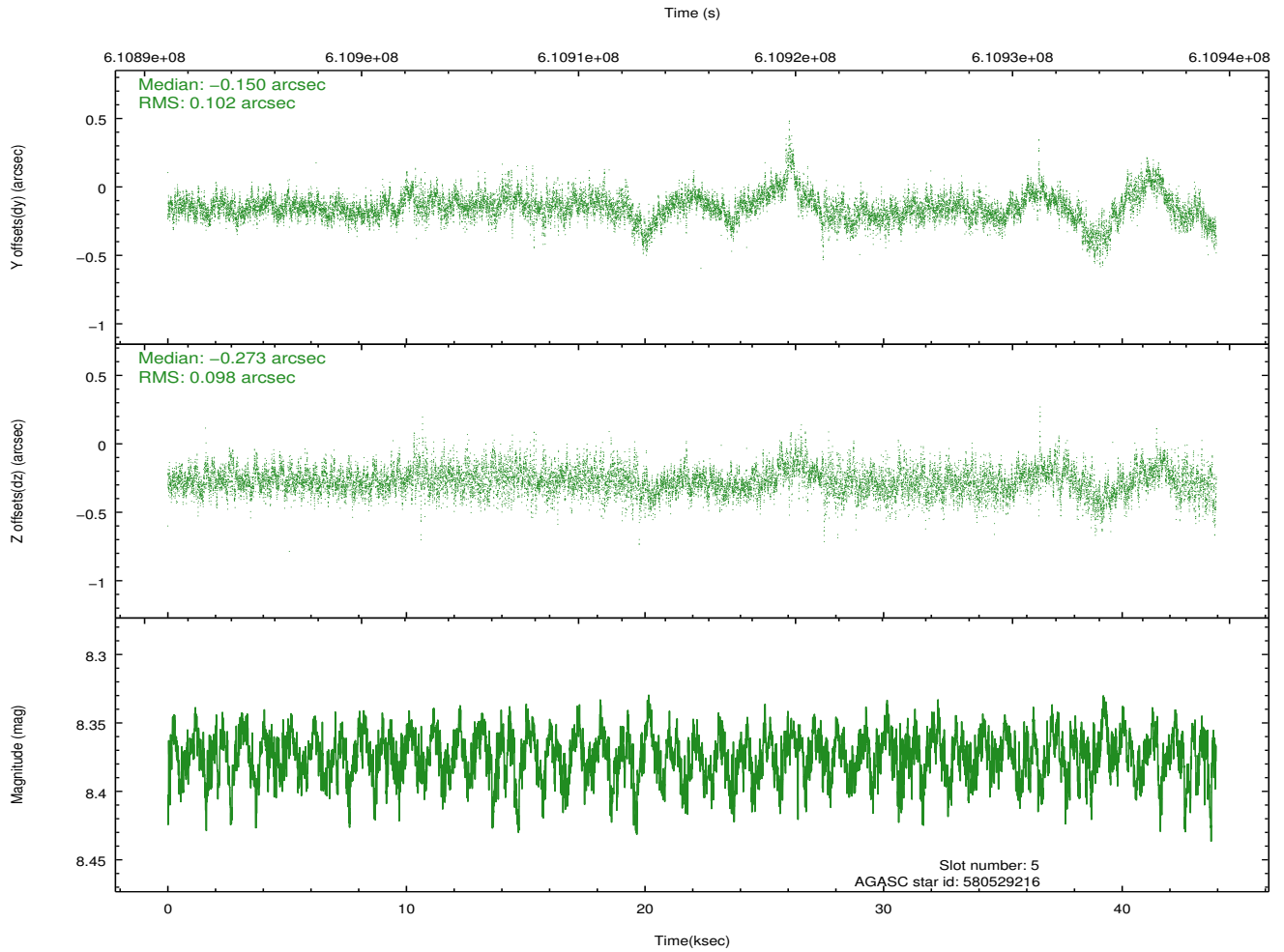
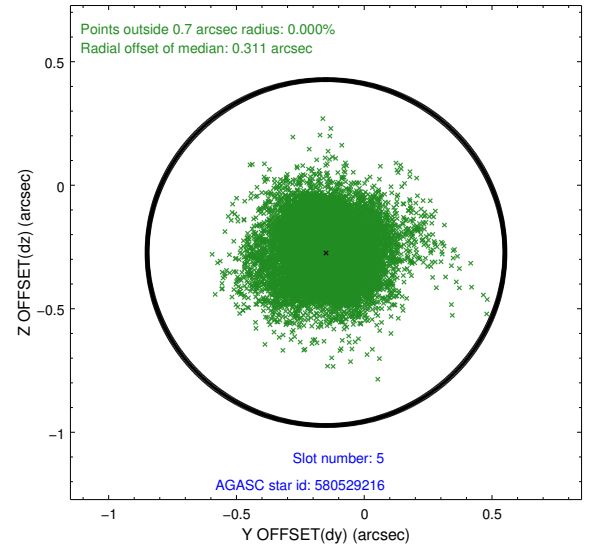
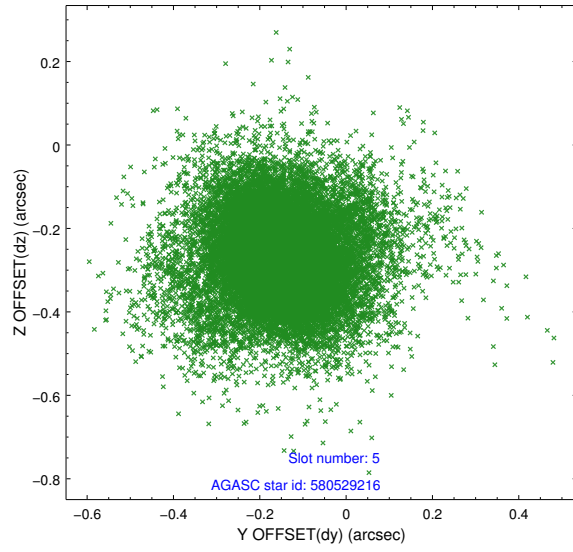
2.4.1 Slot 3



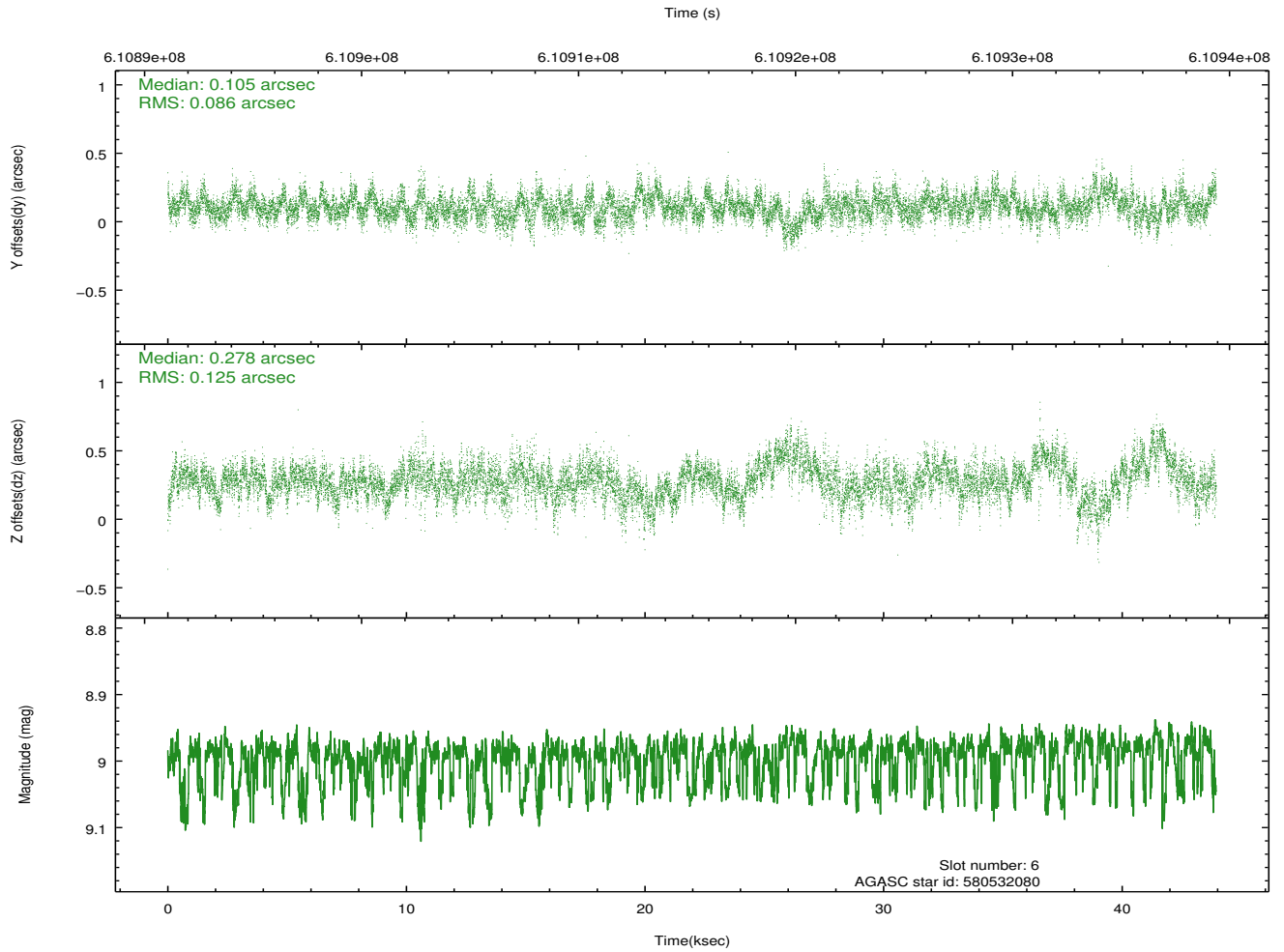
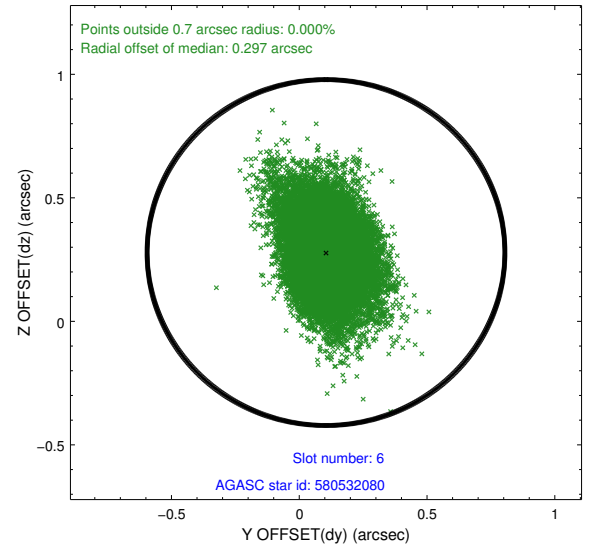
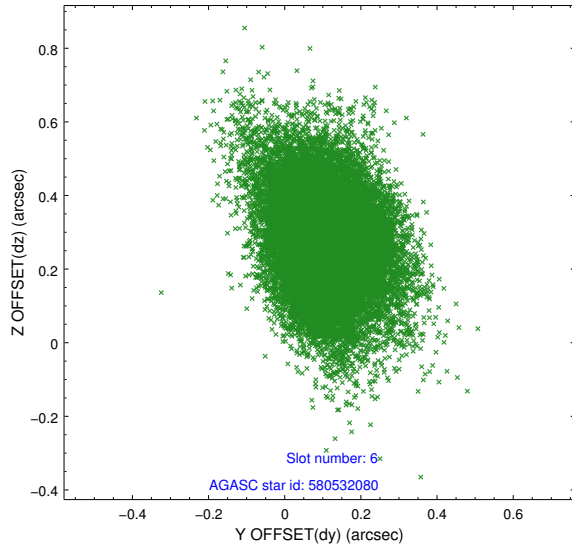
2.4.2 Slot 4



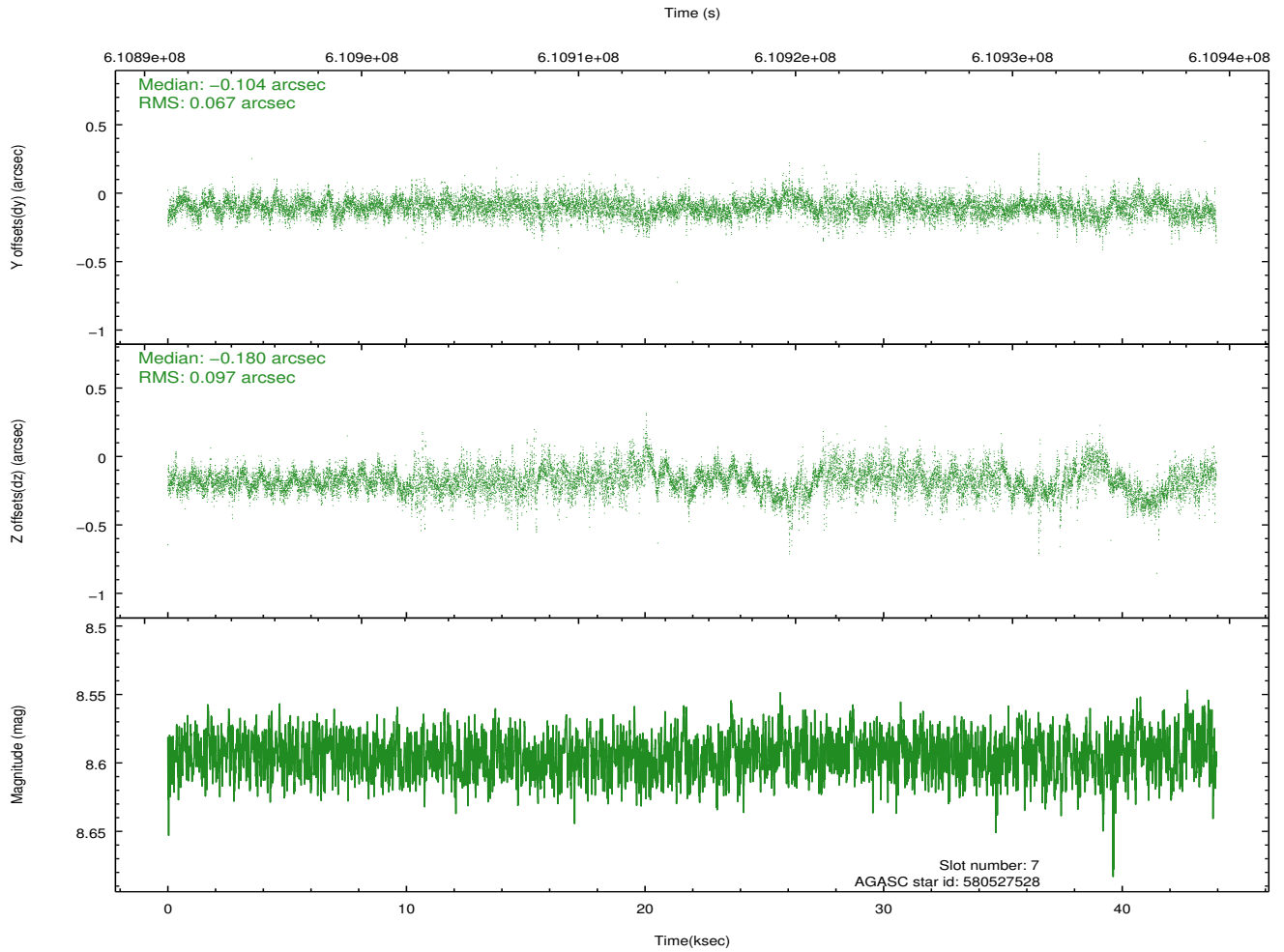
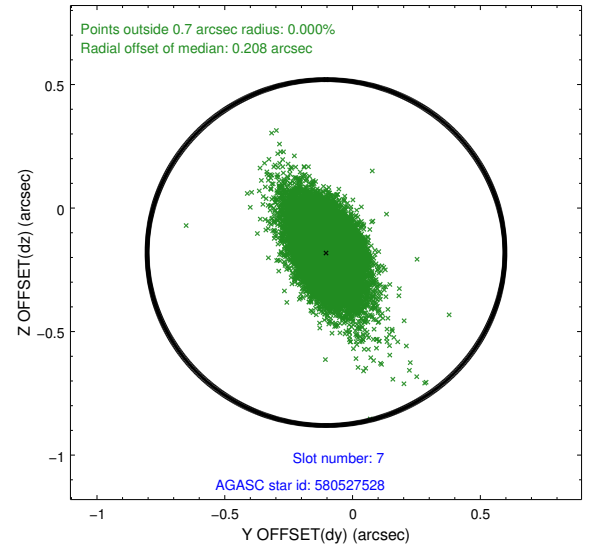
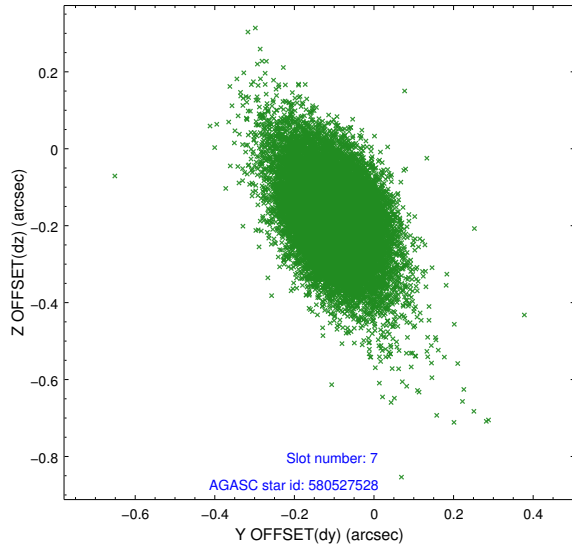
2.4.3 Slot 5



2.4.4 Slot 6

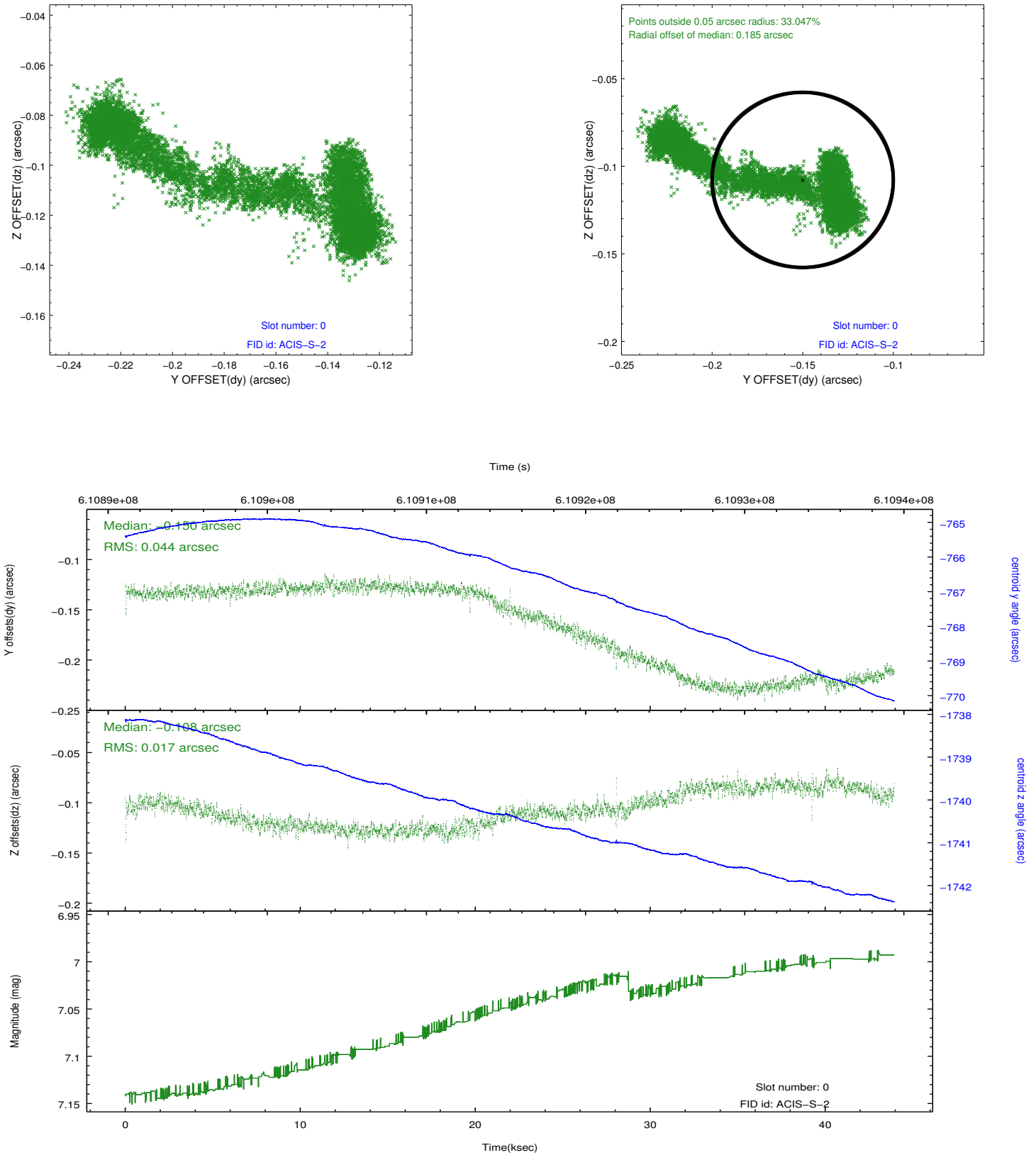


2.4.5 Slot 7

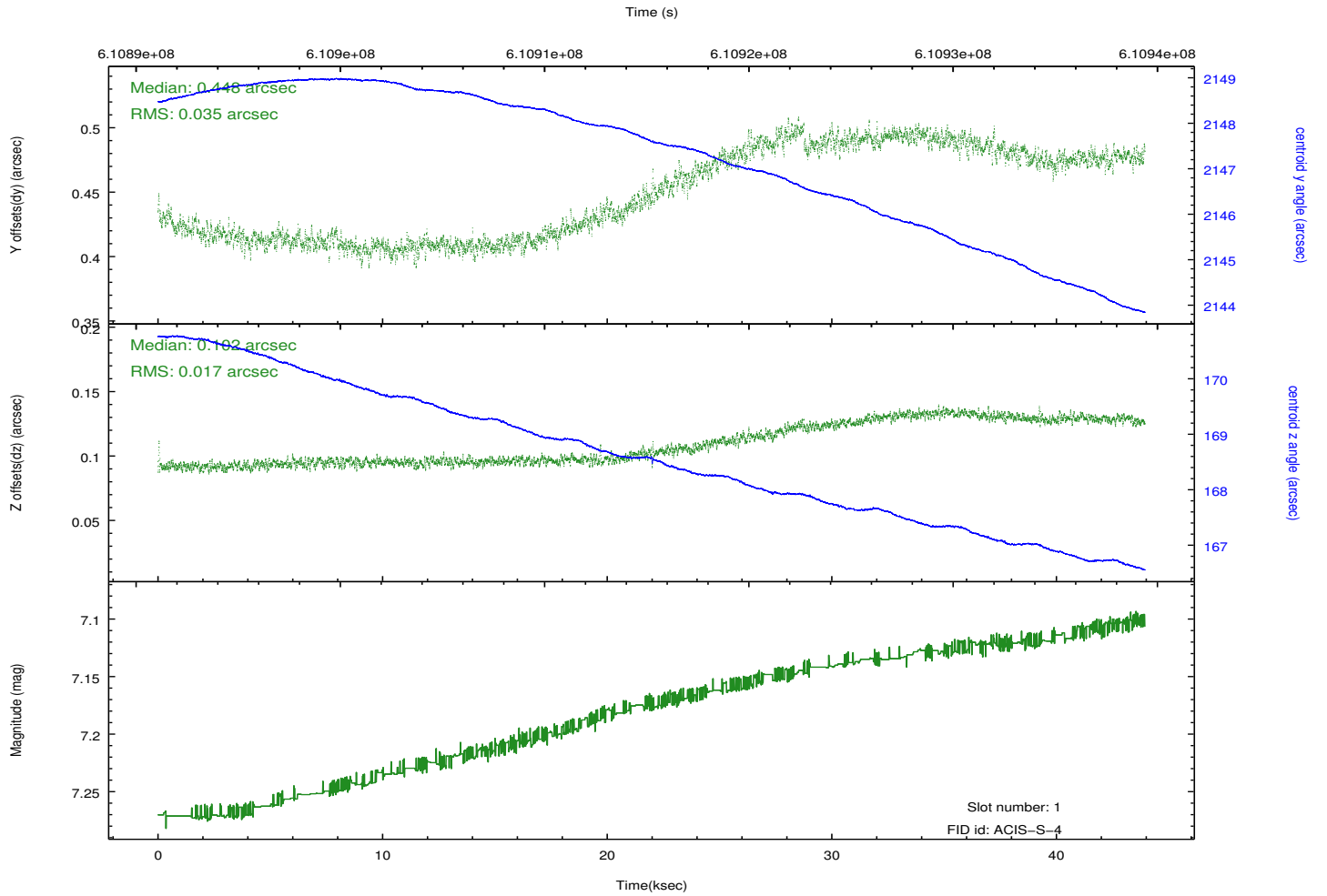
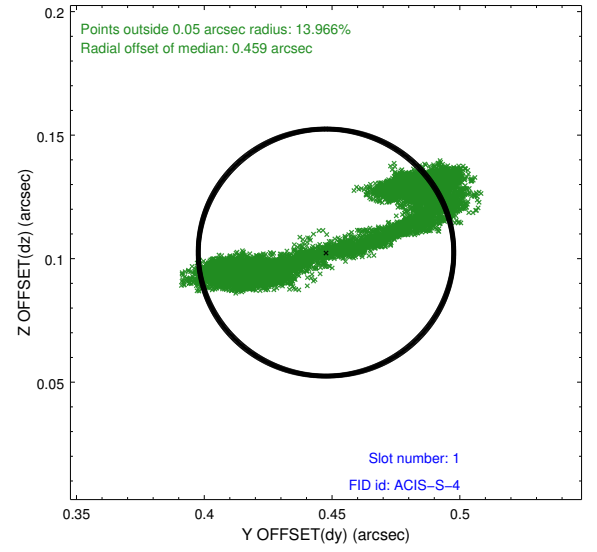
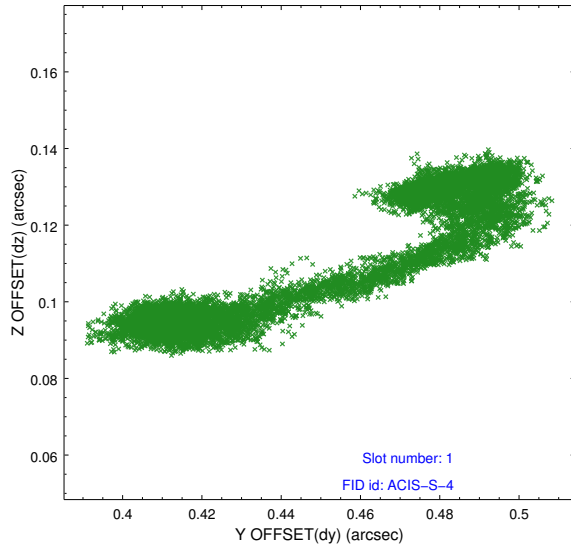


2.5 FID Slots

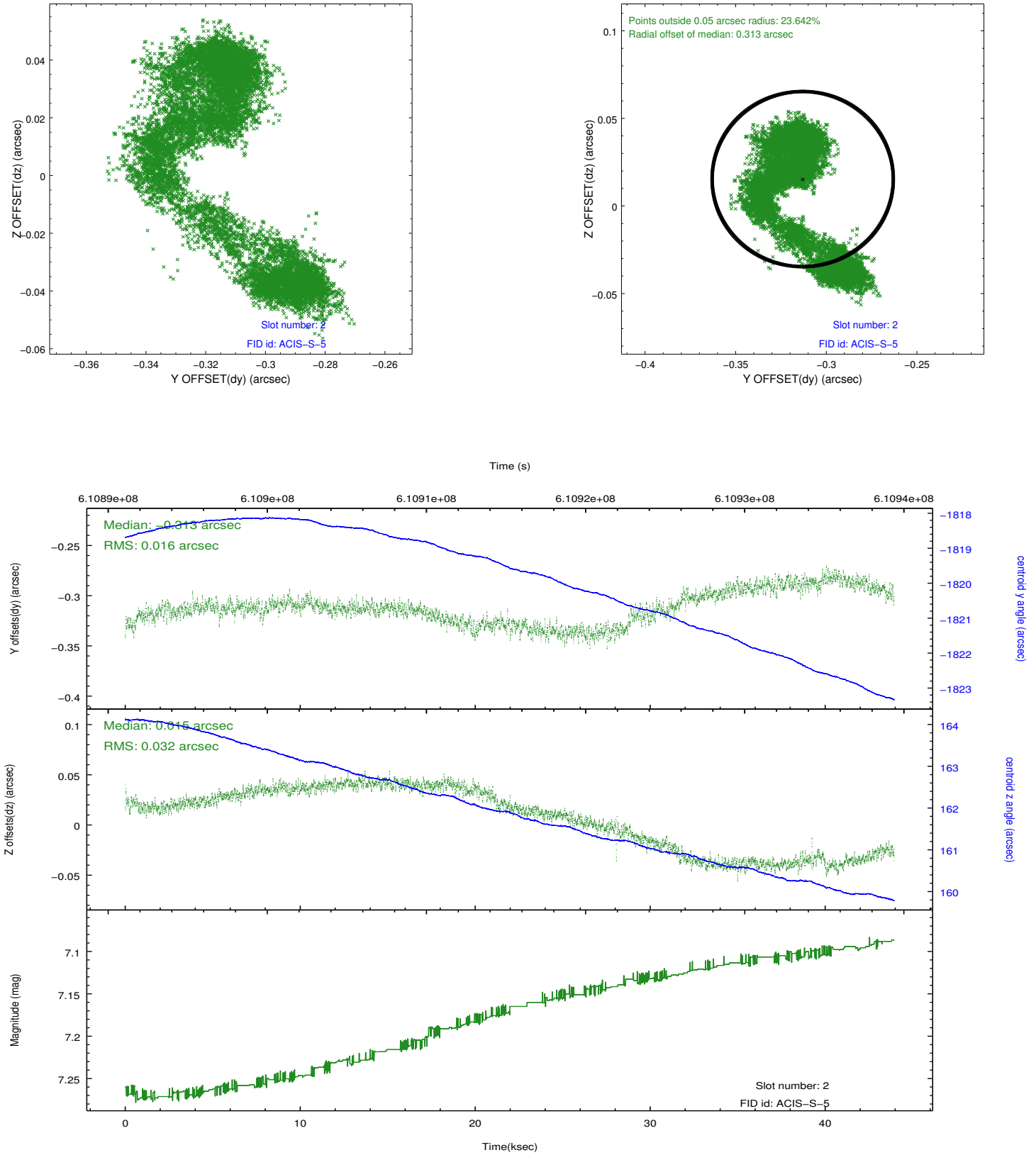
2.5.1 Slot 0



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)	2017.05.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.874300337553

A.2 Comments