

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15011 - L2 Version 2
Chandra X-Ray Center

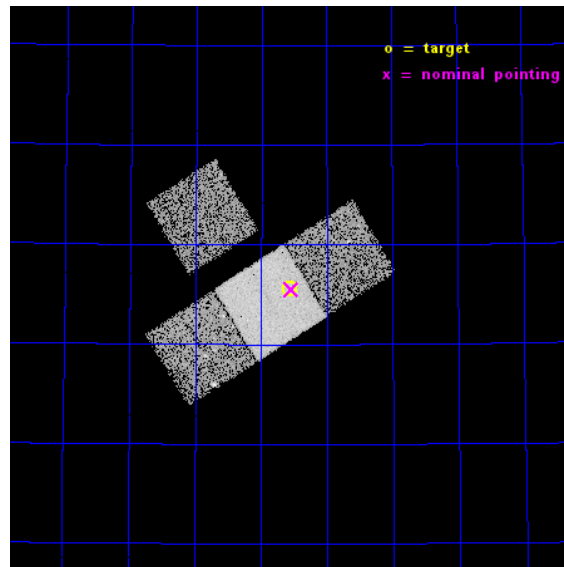
L2 Processing Date : Dec 2 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

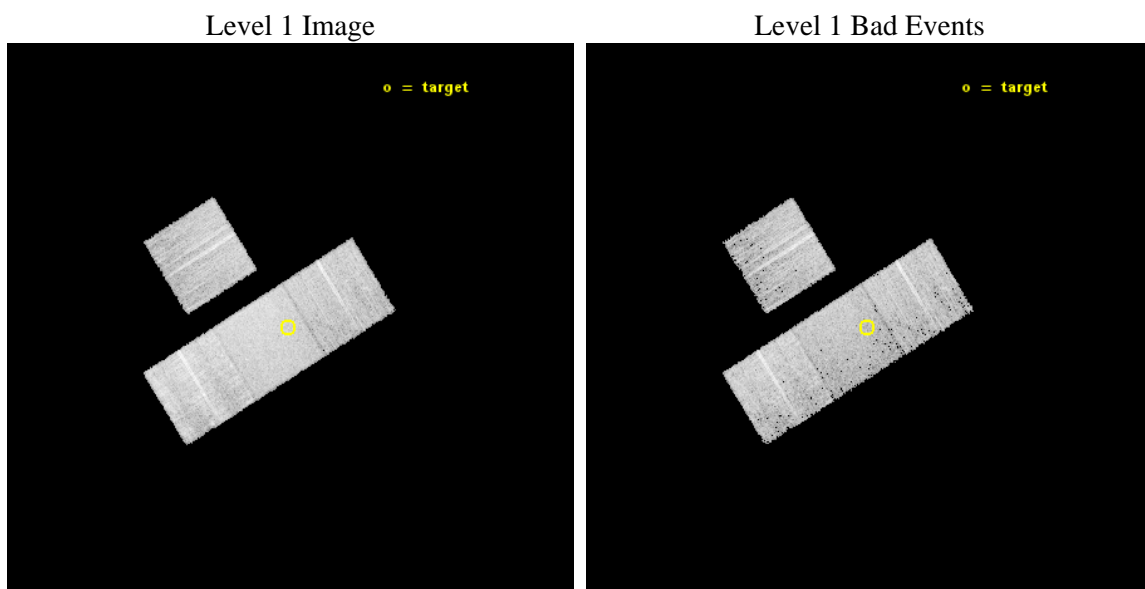
seq_num	702819	Sequence number
obs_id	15011	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C343	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	248.640833	Observer's specified target RA [deg]
dec_targ	62.759944	Observer's specified target Dec [deg]
ra_nom	248.6348720399	Nominal RA [deg]
dec_nom	62.758652594035	Nominal Dec [deg]
roll_nom	148.13340266923	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10071.679170907	Sum of GTIs [s]
livetime	9940.0852678763	Livetime [s]
ontime3	10071.5970909	Sum of GTIs [s]
ontime6	10071.638130903	Sum of GTIs [s]
ontime7	10071.679170907	Sum of GTIs [s]
ontime8	10071.556050897	Sum of GTIs [s]
l2events	49046	Number of level 2 events



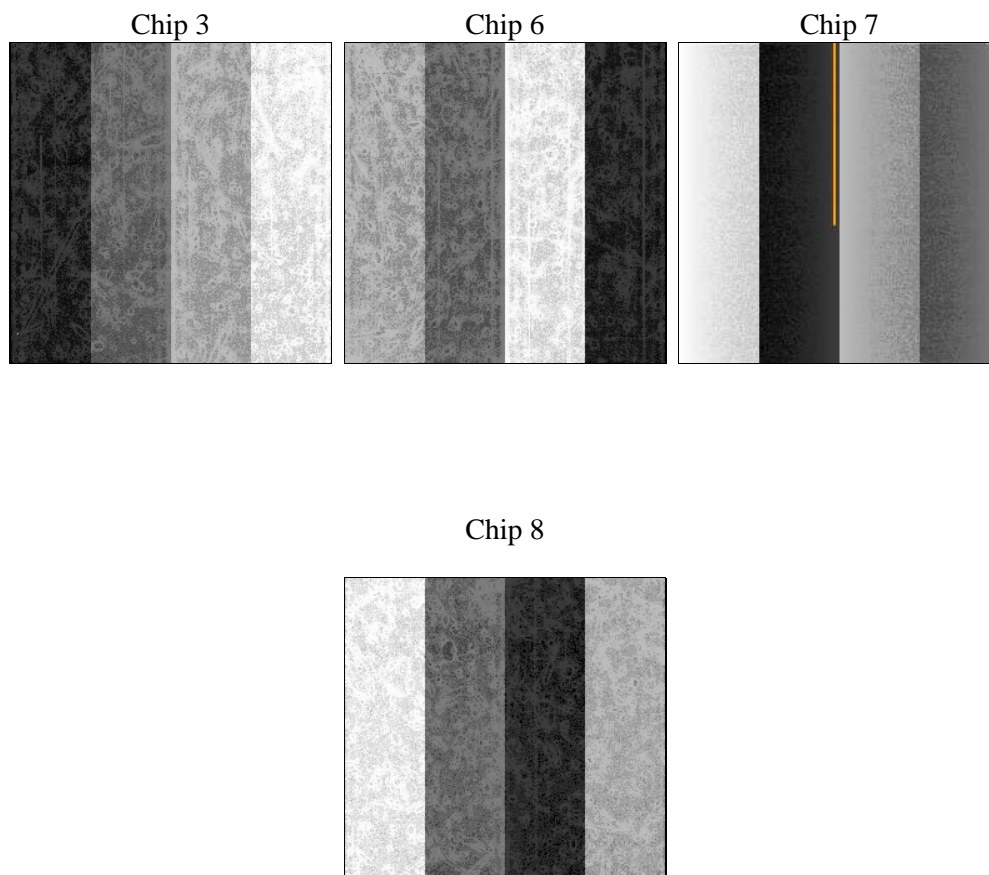
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10071.679170907	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	10071.5970909	Sum of GTIs [s]
date	2014-12-02T21:53:04	Date and time of file creation	ontime6	10071.638130903	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10071.679170907	Sum of GTIs [s]
			ontime8	10071.556050897	Sum of GTIs [s]
			l1events	255832	Number of level 1 events

2.1.4 Events

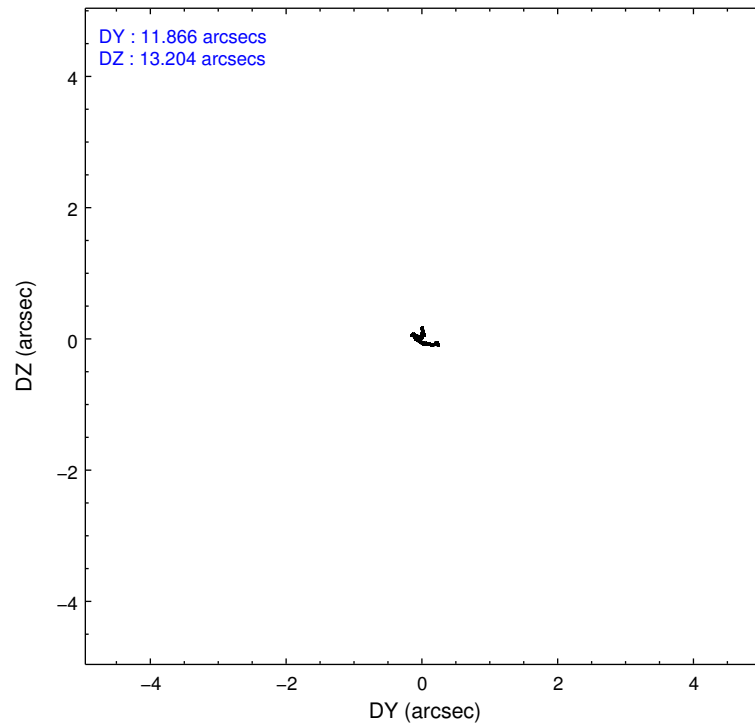
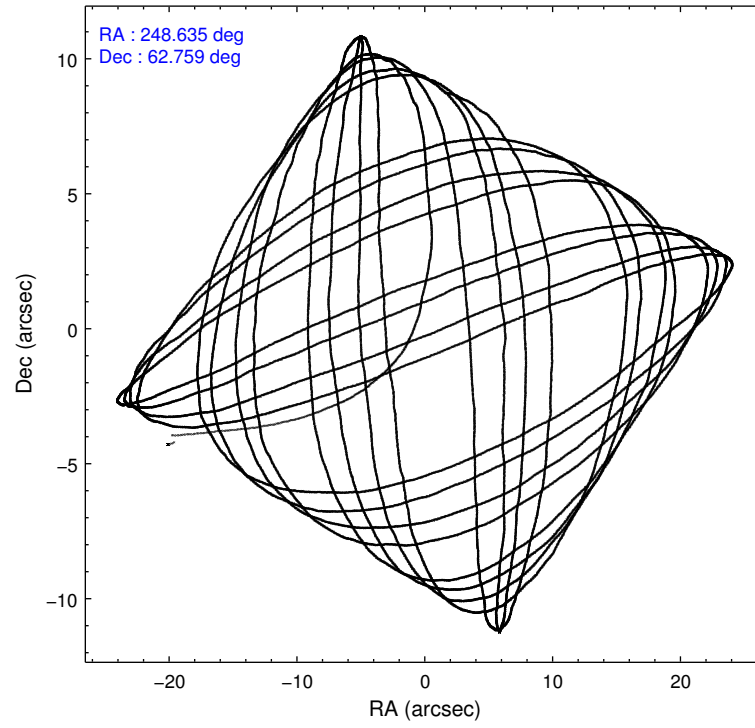
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	54024	55650	72922	73236
rejected events	48187	49034	41211	54560
rejected %	89%	88%	56%	74%

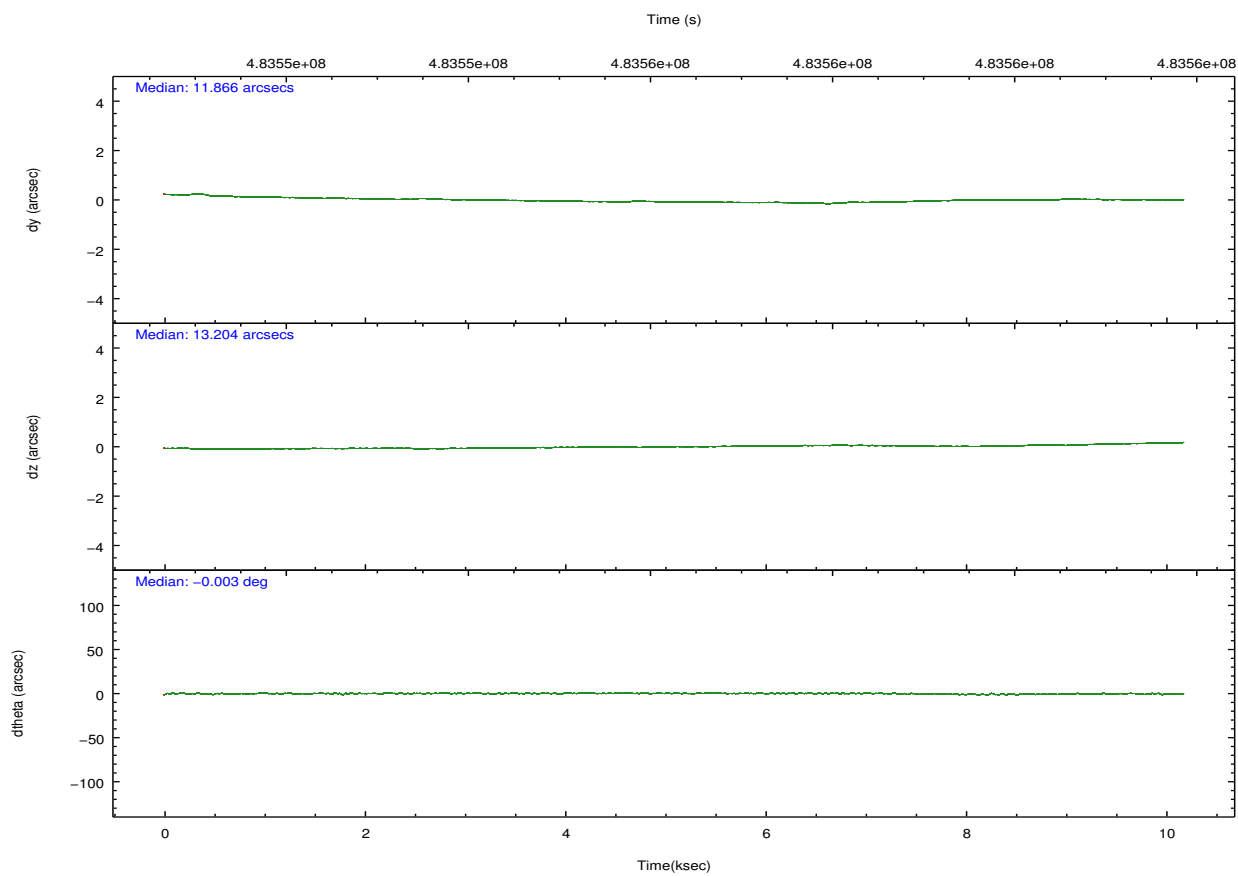
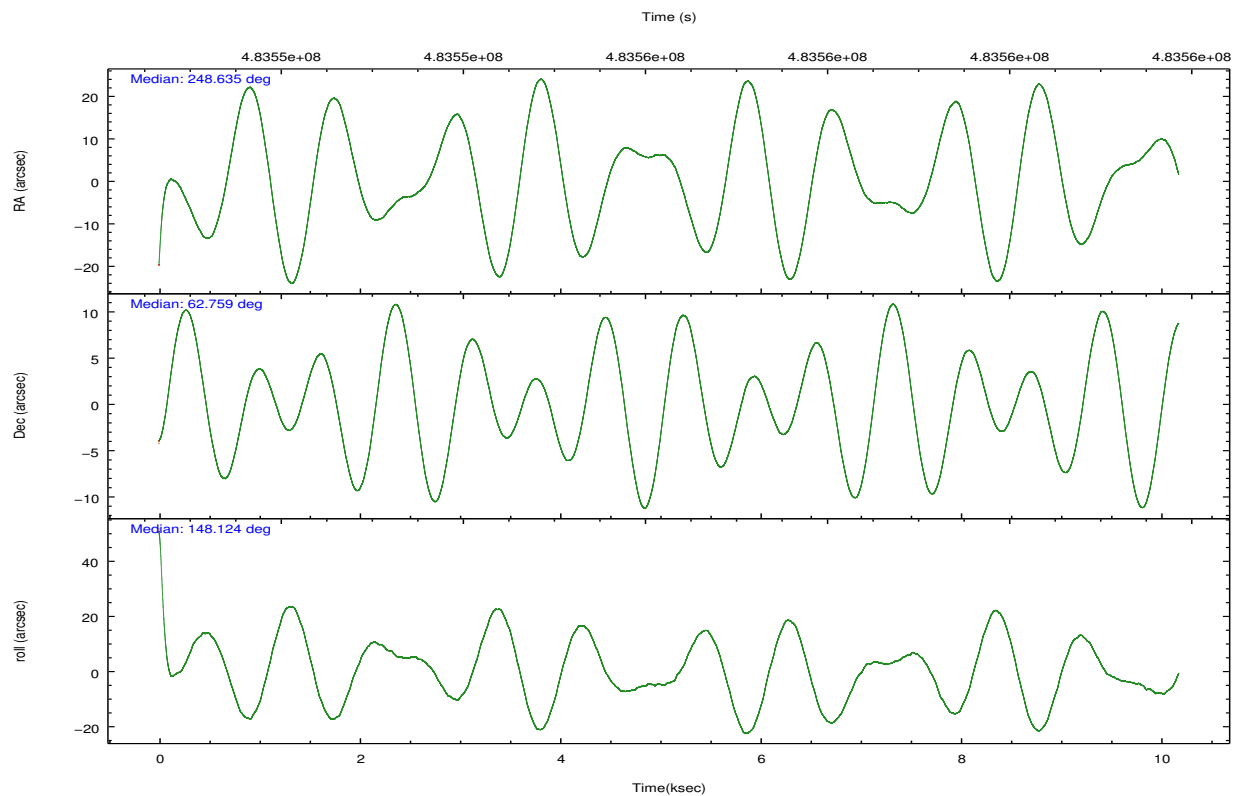
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2023	2213	2683	5550
	3%	3%	3%	7%
grade 1 events	24	31	68	58
	0%	0%	0%	0%
grade 2 events	1301	1480	6345	4341
	2%	2%	8%	5%
grade 3 events	644	665	2714	1916
	1%	1%	3%	2%
grade 4 events	632	663	2630	1822
	1%	1%	3%	2%
grade 5 events	2727	2809	7240	4057
	5%	5%	9%	5%
grade 6 events	1242	1599	17363	5051
	2%	2%	23%	6%
grade 7 events	45431	46190	33879	50441
	84%	83%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	248.694594	248.6348720399002	CCD I2 on	N	N
[deg] Pointing Dec	62.758103	62.75865259403528	CCD I3 on	O1	Y
[deg] Pointing Roll	147.923637	148.1334026692279	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	O3	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	O2	Y
[s] Observation start time (MET)	483551335.184000	483550331.80317	CCD S5 on	N	N
Observation start date	2013-04-28T15:47:48	2013-04-28T15:32:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	483561335.184000	483561789.25379	On-chip summing requested	N	N
Observation end date	2013-04-28T18:34:28	2013-04-28T18:43:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



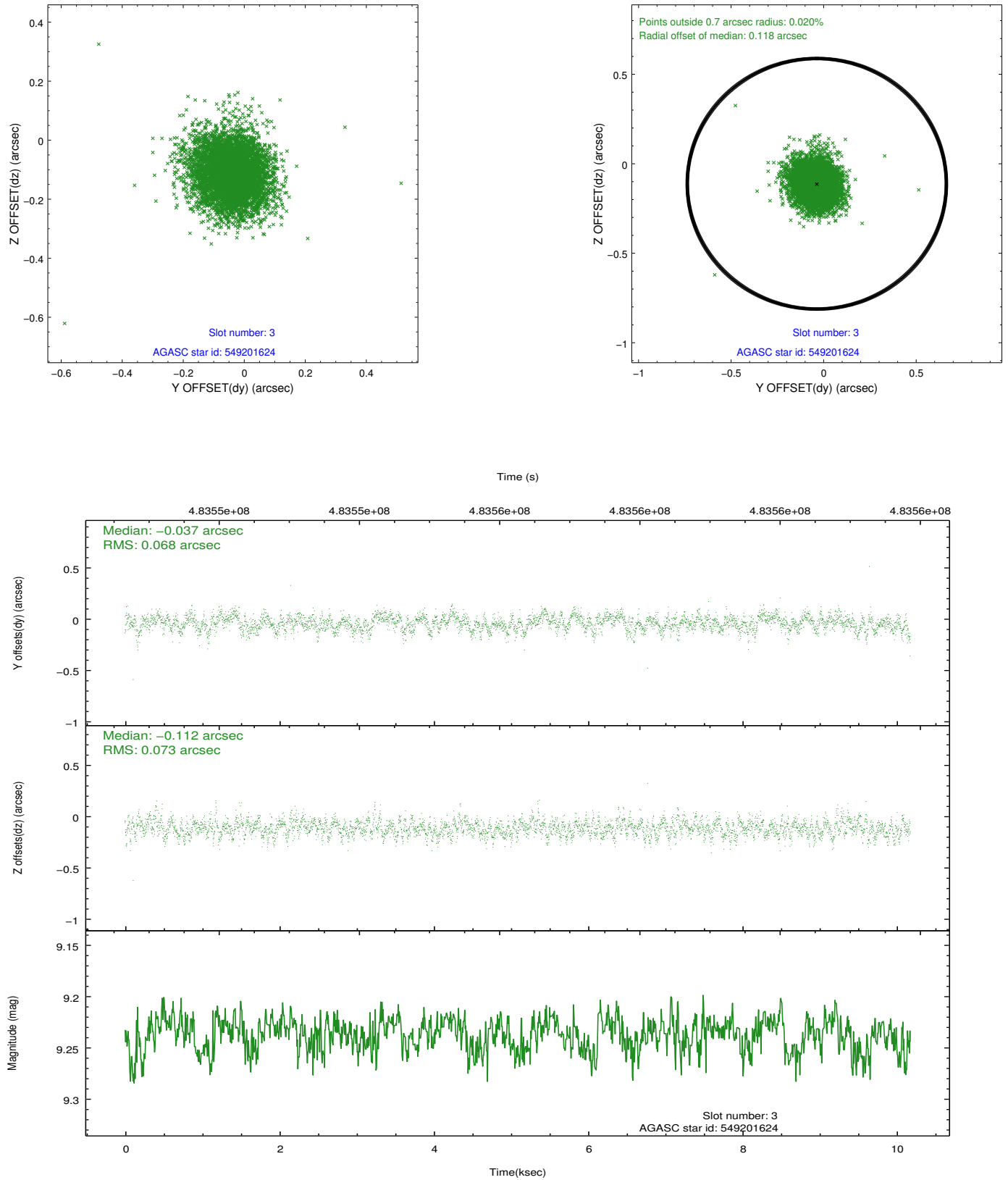


Slot Statistics

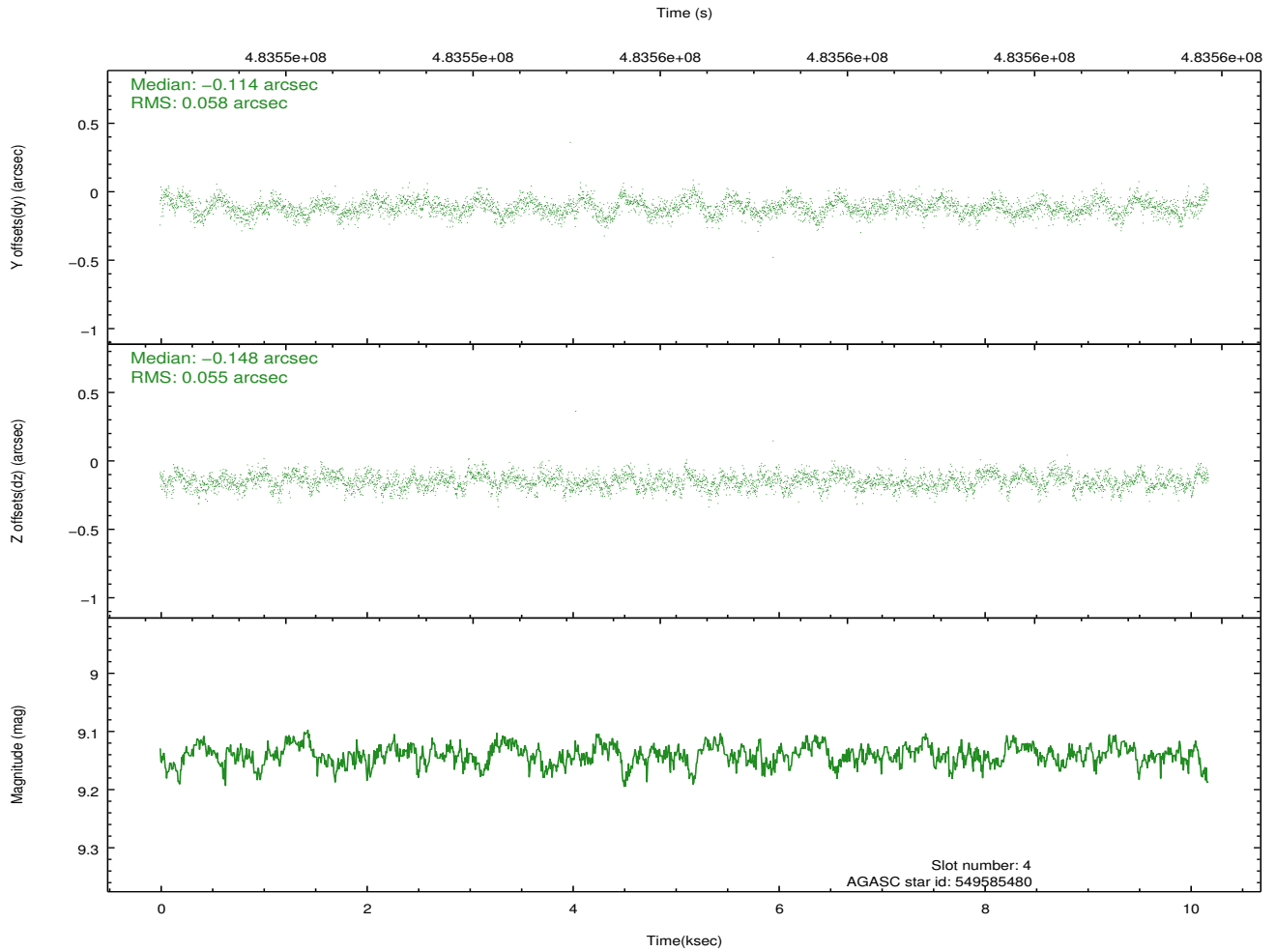
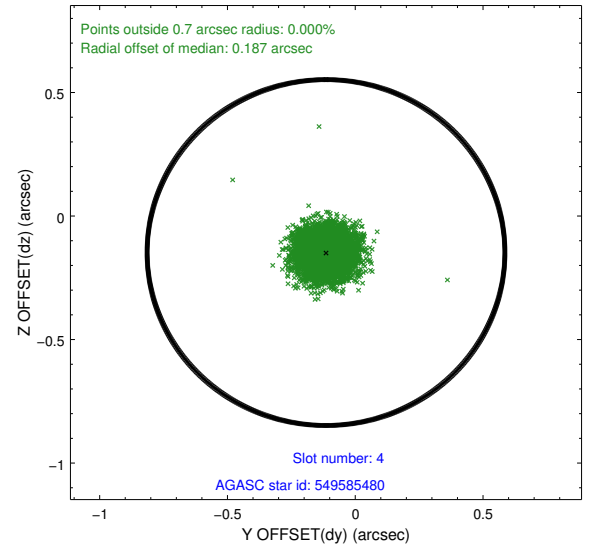
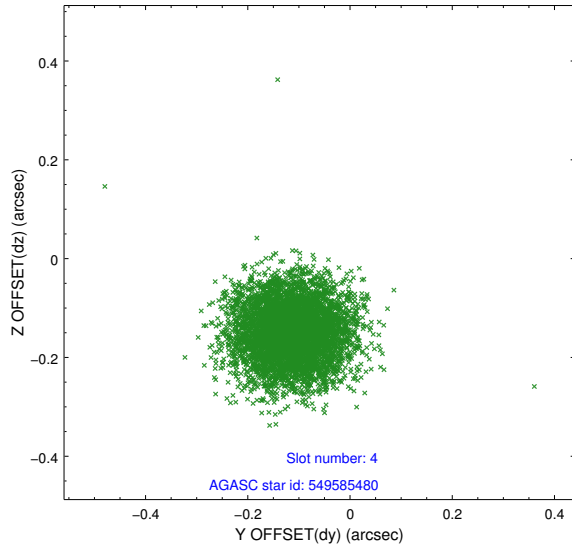
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	2483	-0.041	-0.043	0.007	0.011	0.000000	0.000000	-764.81	-1734.57
1	FID		ACIS-S-4	7.15	2483	0.154	0.031	0.005	0.010	0.000000	0.000000	2148.45	173.41
2	FID		ACIS-S-5	7.19	2483	-0.144	0.021	0.007	0.011	0.000000	0.000000	-1817.06	167.72
3	GUIDE	used	549201624	9.24	4963	-0.037	-0.112	0.103	0.171	247.854304	62.335348	386.49	2027.94
4	GUIDE	used	549585480	9.14	4965	-0.114	-0.148	0.086	0.135	247.129852	62.561760	1840.33	1951.15
5	GUIDE	used	549592504	8.34	4965	-0.088	0.147	0.063	0.105	248.286694	63.404567	1794.75	-1624.15
6	GUIDE	used	549604152	7.36	4966	-0.003	0.101	0.058	0.094	248.648678	63.258957	1023.30	-1488.36
7	GUIDE	used	549604672	9.14	4943	0.248	0.010	0.100	0.161	247.476746	62.801254	1791.84	916.09

2.4 Star Slots

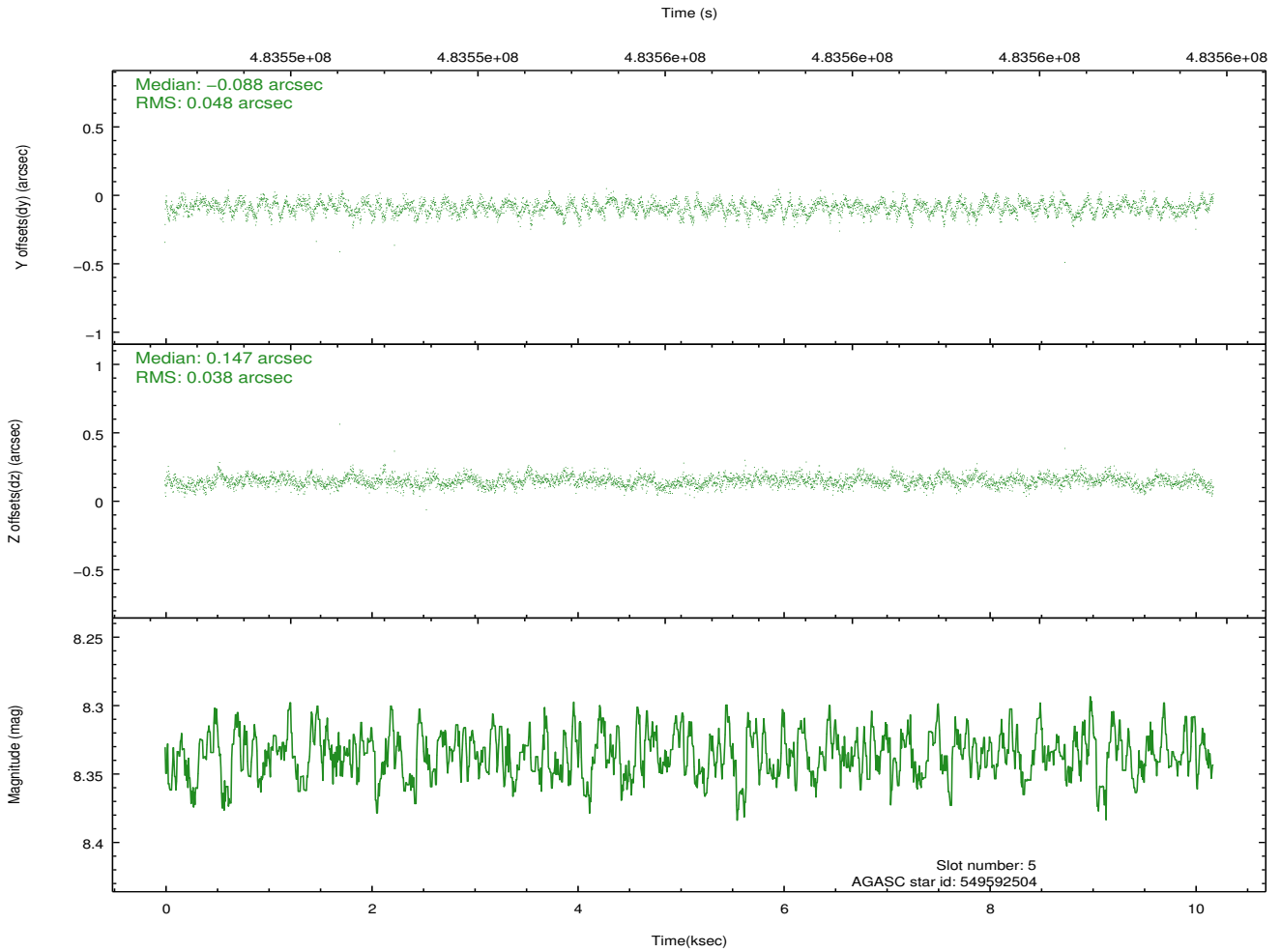
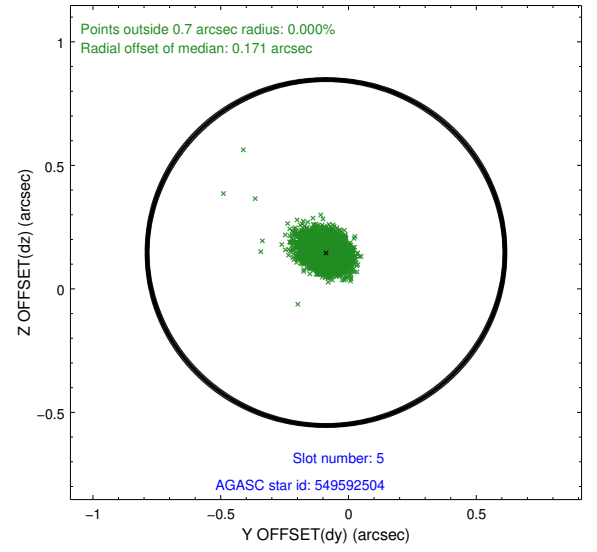
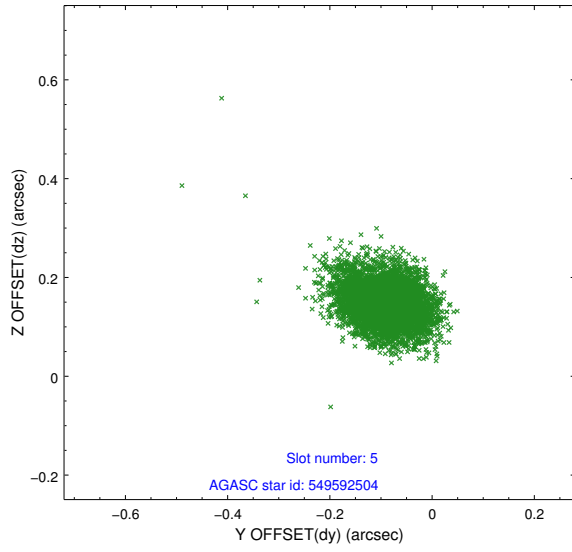
2.4.1 Slot 3



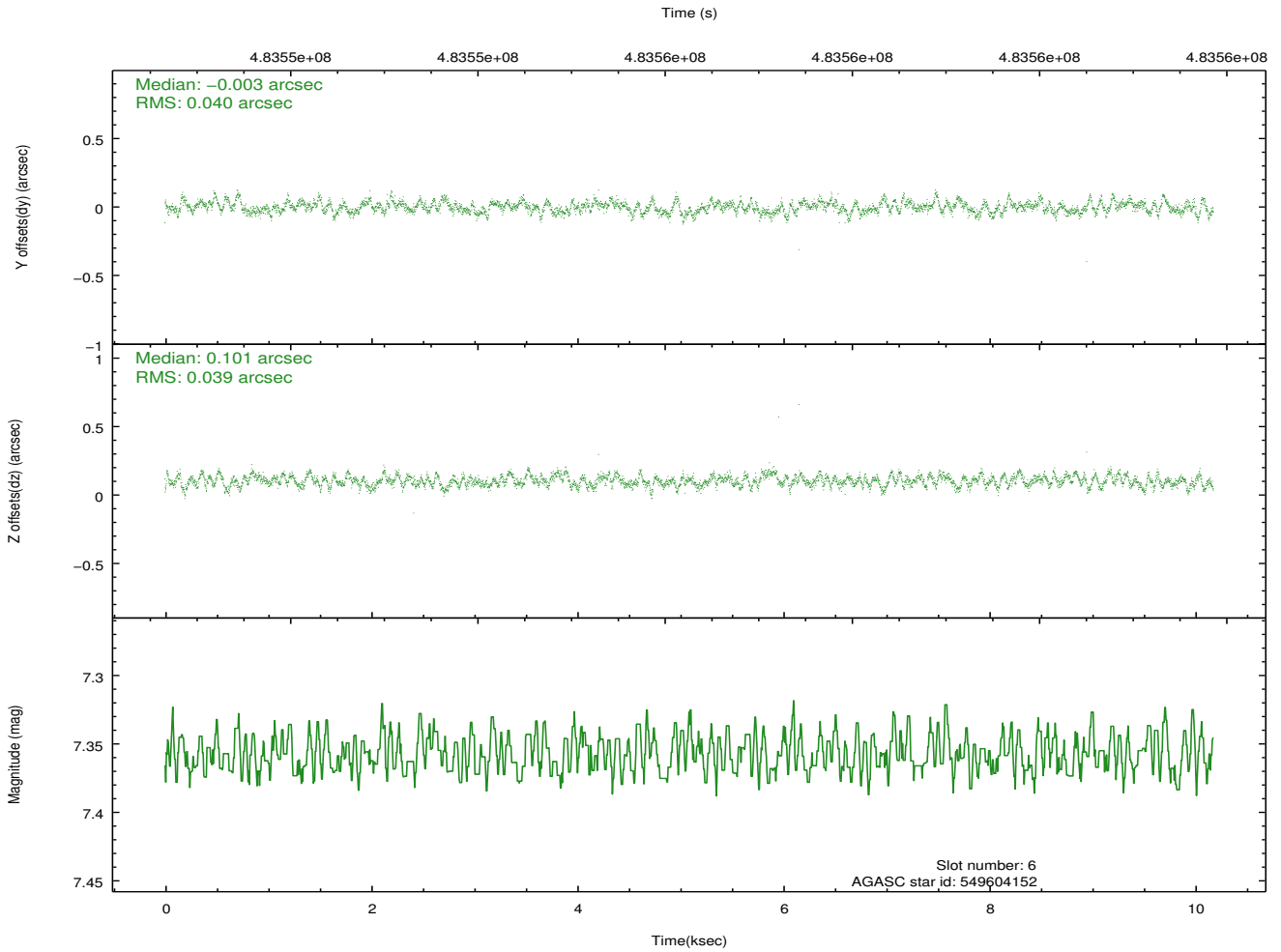
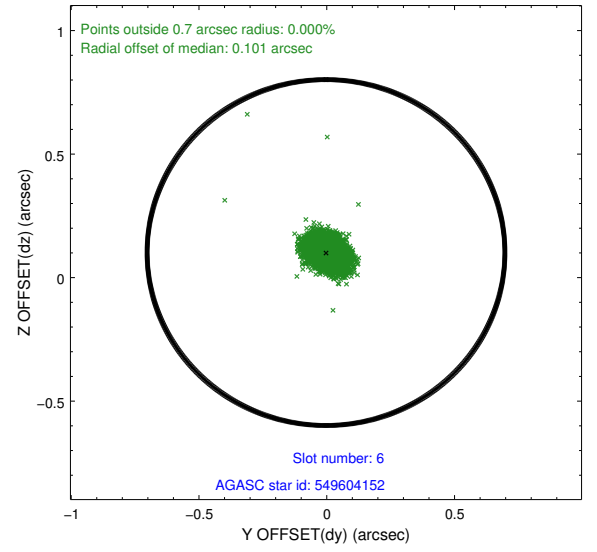
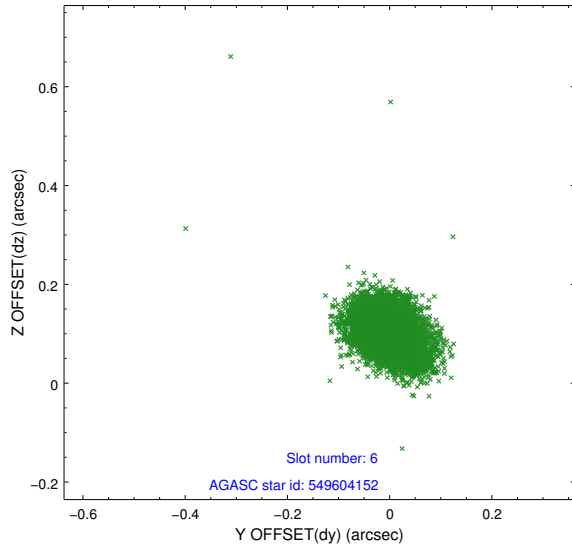
2.4.2 Slot 4



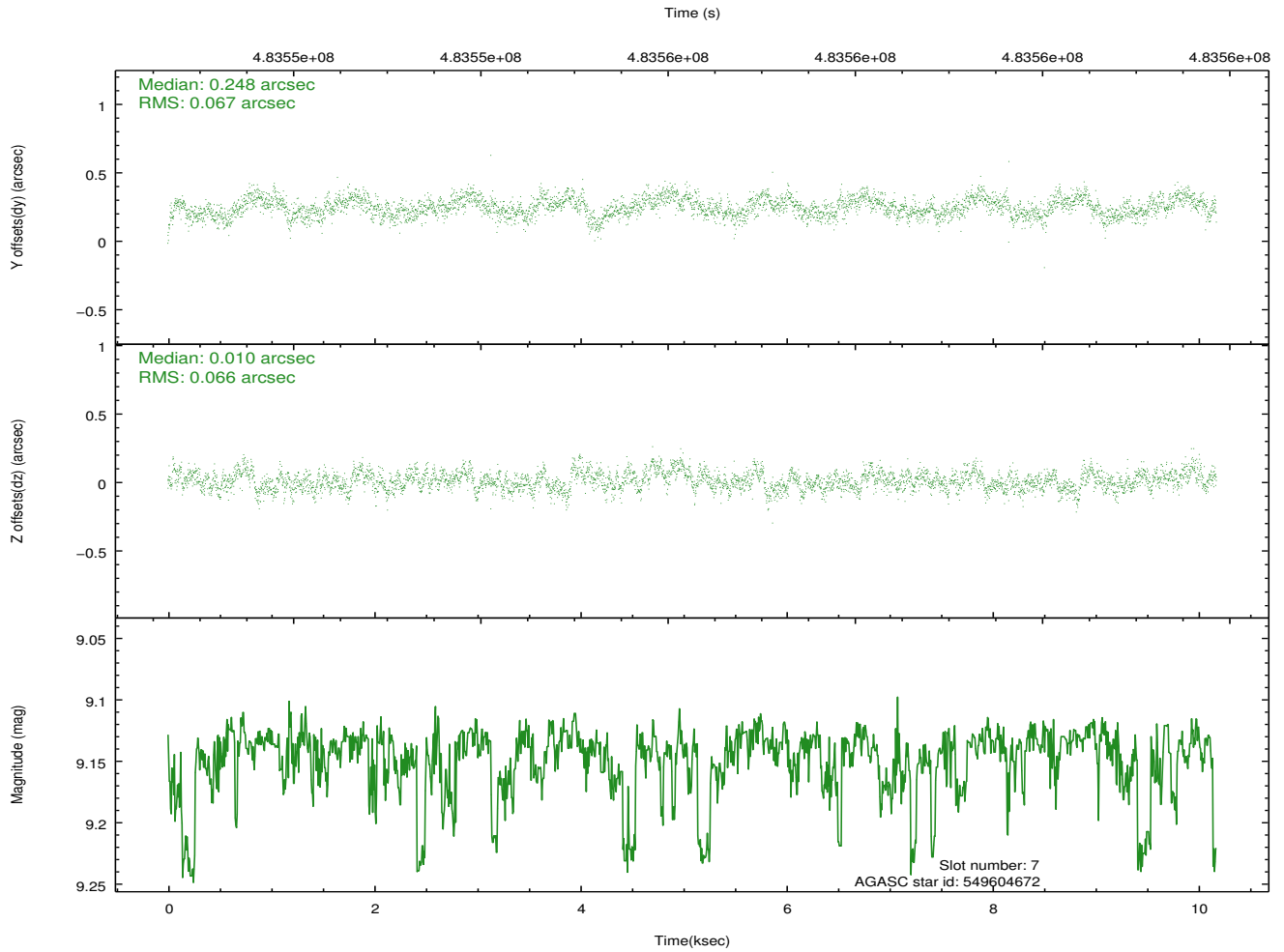
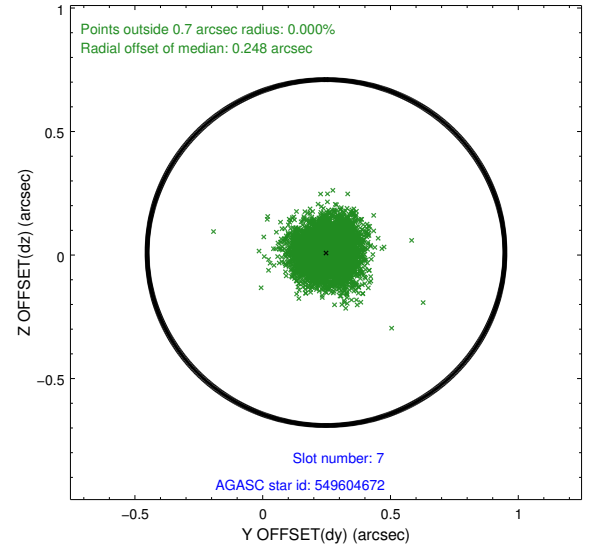
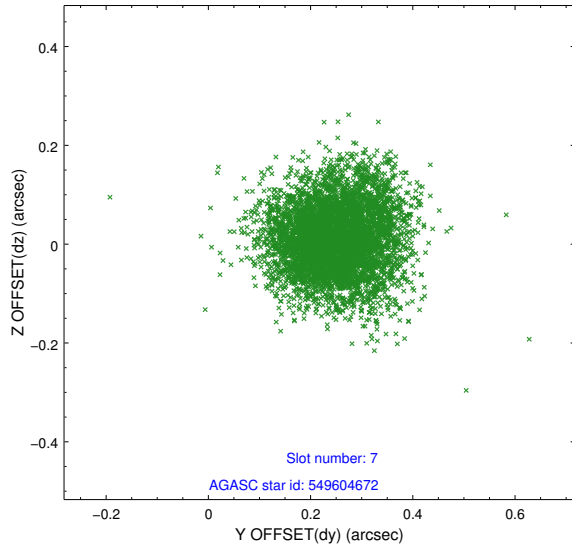
2.4.3 Slot 5



2.4.4 Slot 6

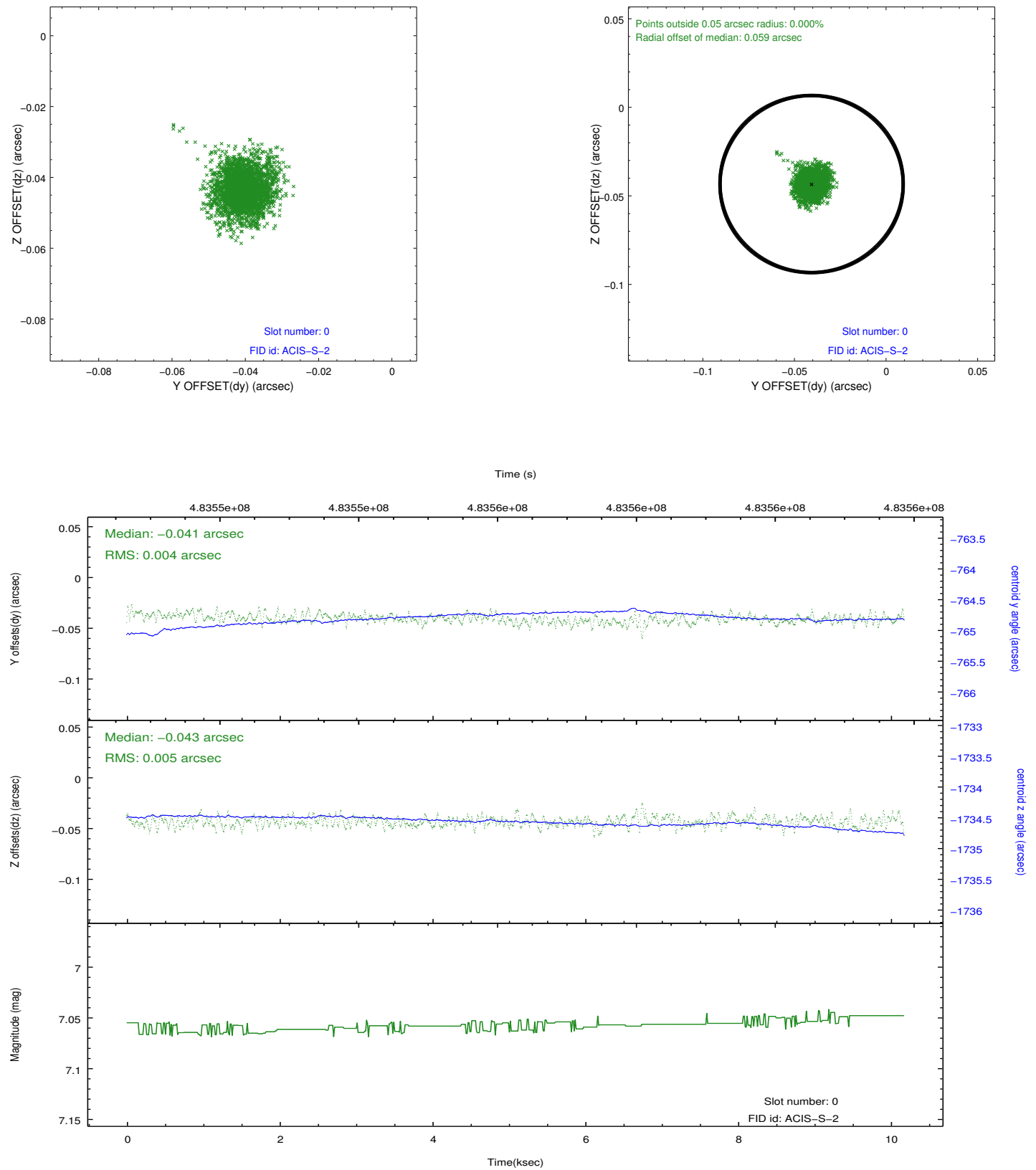


2.4.5 Slot 7

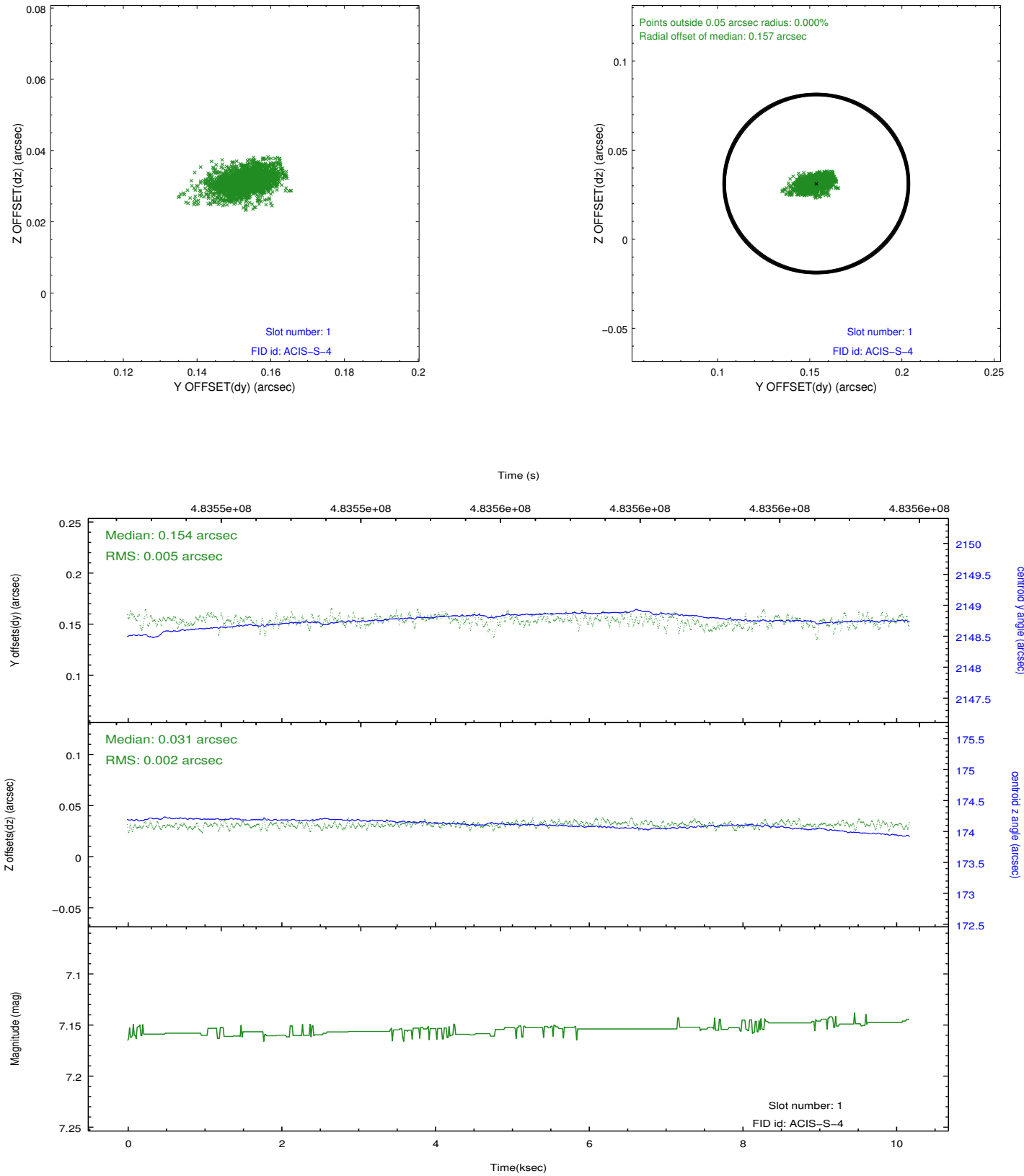


2.5 FID Slots

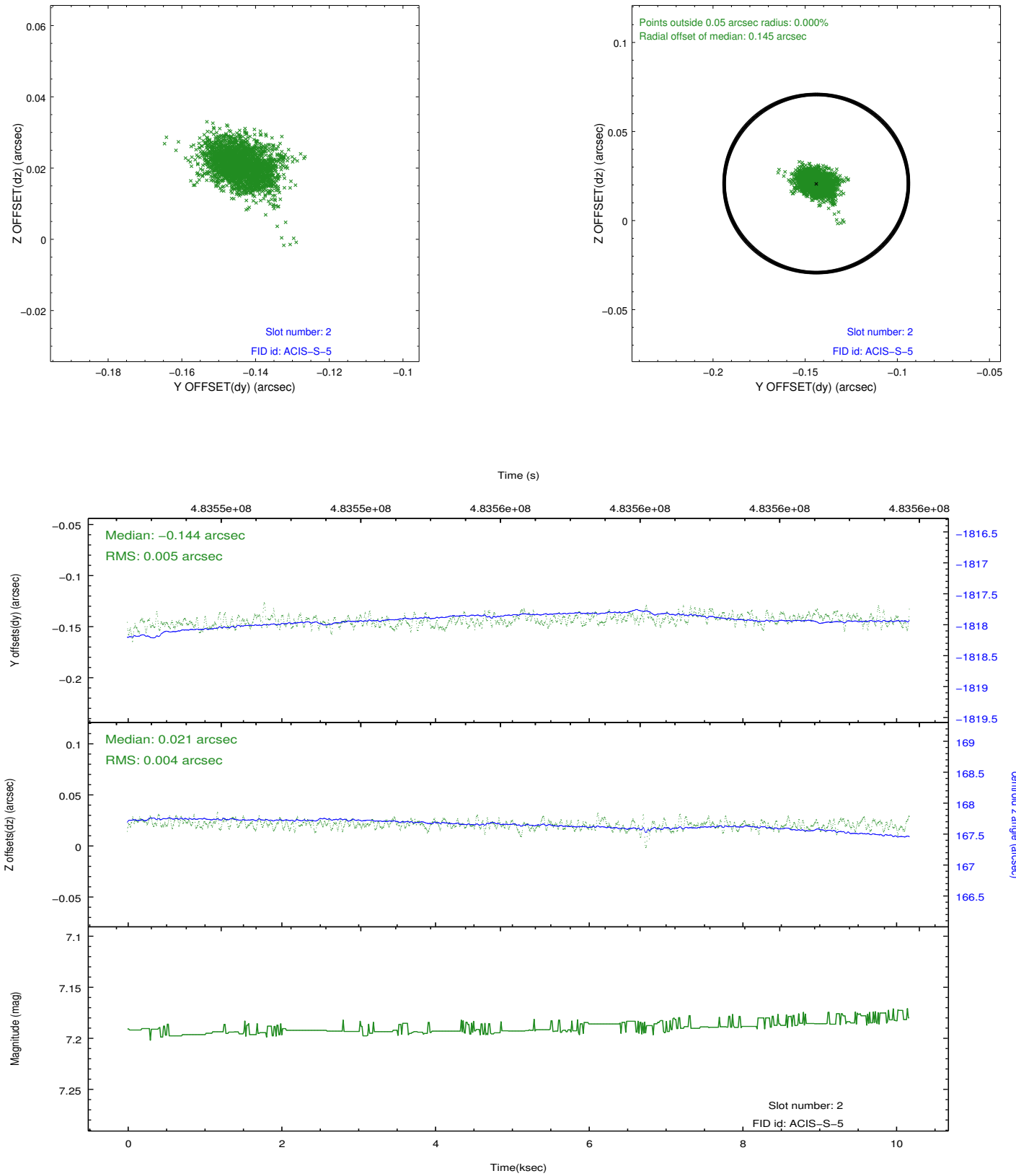
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.071679170907

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.