

V&V Reference Report

L2 ASCDS Version : 10.3

Observation 16145 - L2 Version 1
Chandra X-Ray Center

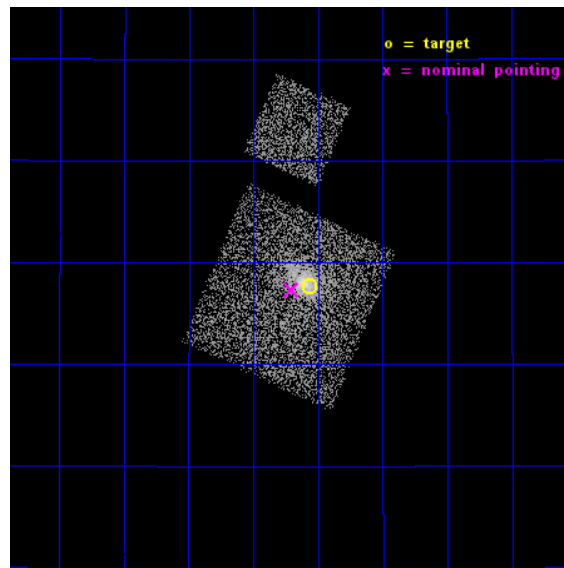
L2 Processing Date : Nov 21 2014

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1 Front

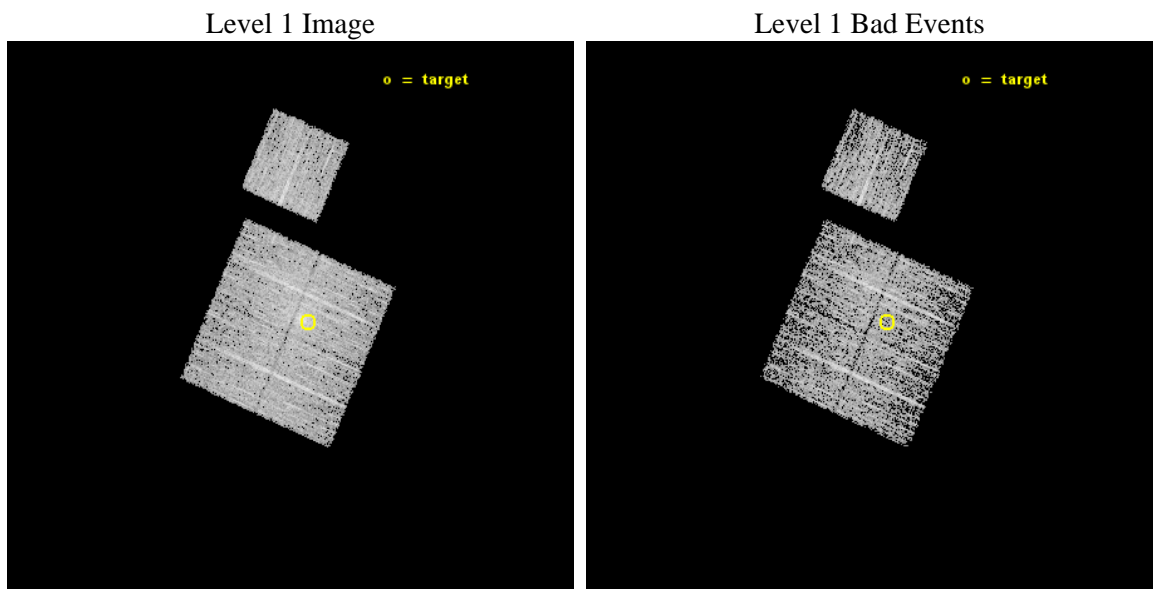
seq_num	801398	Sequence number
obs_id	16145	Observation id
title	Setting the Scale: Supporting precision cluster cosmology with Chandra observations of low-z lensing clusters	Proposal title
observer	Dr Adam Mantz	Principal investigator
object	A1927	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.765	Observer's specified target RA [deg]
dec_targ	25.628	Observer's specified target Dec [deg]
ra_nom	217.80139767394	Nominal RA [deg]
dec_nom	25.622181389543	Nominal Dec [deg]
roll_nom	23.562869645386	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5123.3604605794	Sum of GTIs [s]
livetime	5056.4199843988	Livetime [s]
ontime0	5123.2373405695	Sum of GTIs [s]
ontime1	5120.1373903751	Sum of GTIs [s]
ontime2	5123.3194205761	Sum of GTIs [s]
ontime3	5123.3604605794	Sum of GTIs [s]
ontime6	5123.1963005662	Sum of GTIs [s]
l2events	14637	Number of level 2 events



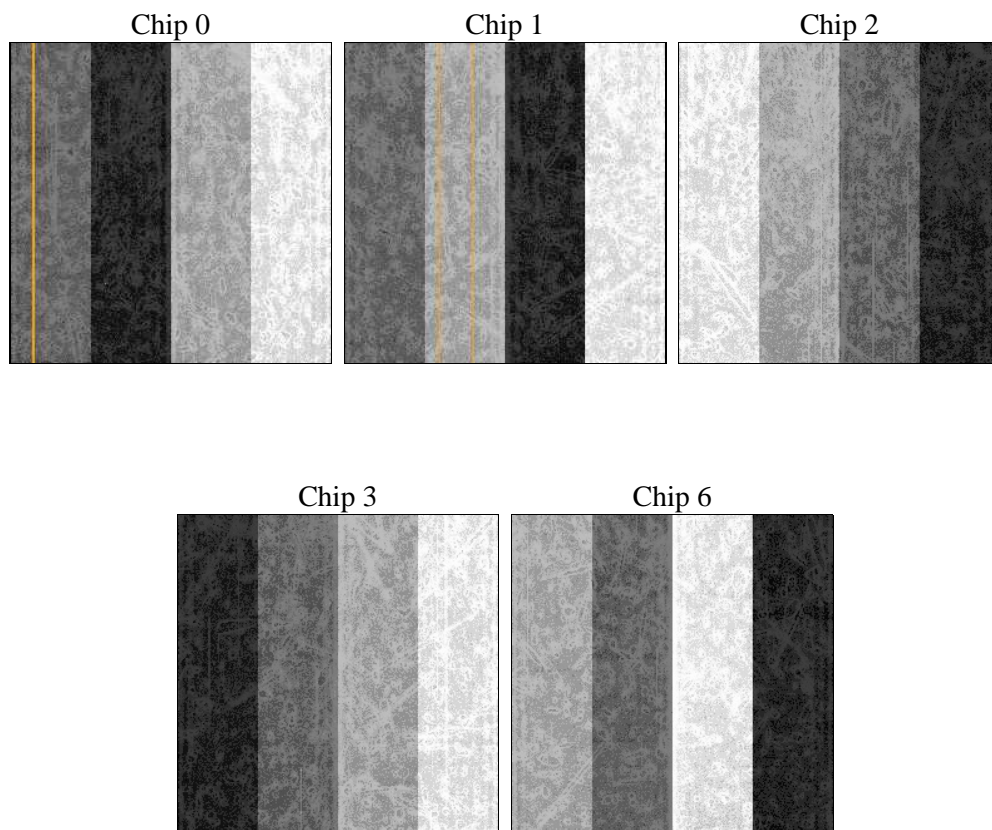
2 OBI

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	10.3	Processing system revision	ontime	5123.3604605794	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	5123.2373405695	Sum of GTIs [s]
date	2014-11-21T23:47:35	Date and time of file creation	ontime1	5120.1373903751	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5123.3194205761	Sum of GTIs [s]
			ontime3	5123.3604605794	Sum of GTIs [s]
			ontime6	5123.1963005662	Sum of GTIs [s]
			l1events	117046	Number of level 1 events

2.1.4 Events

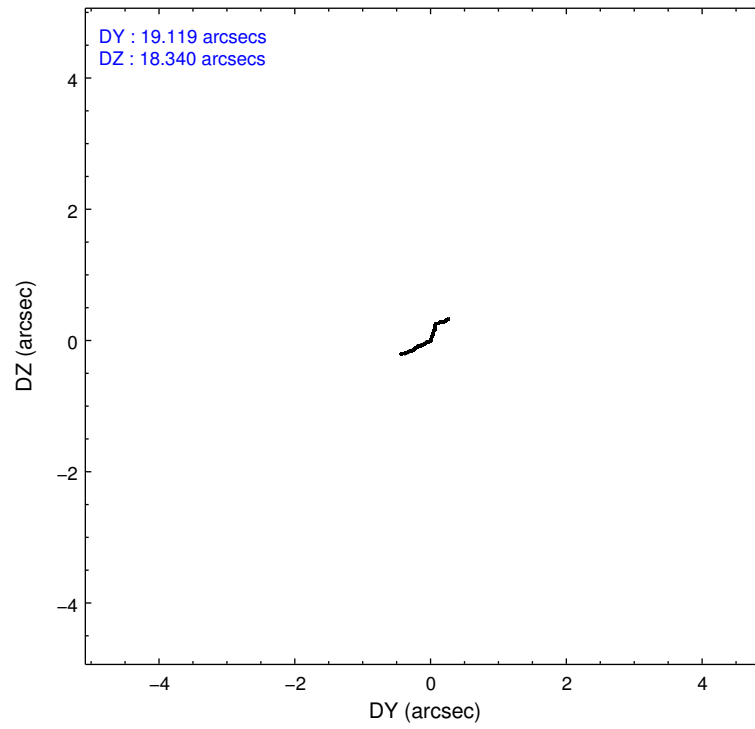
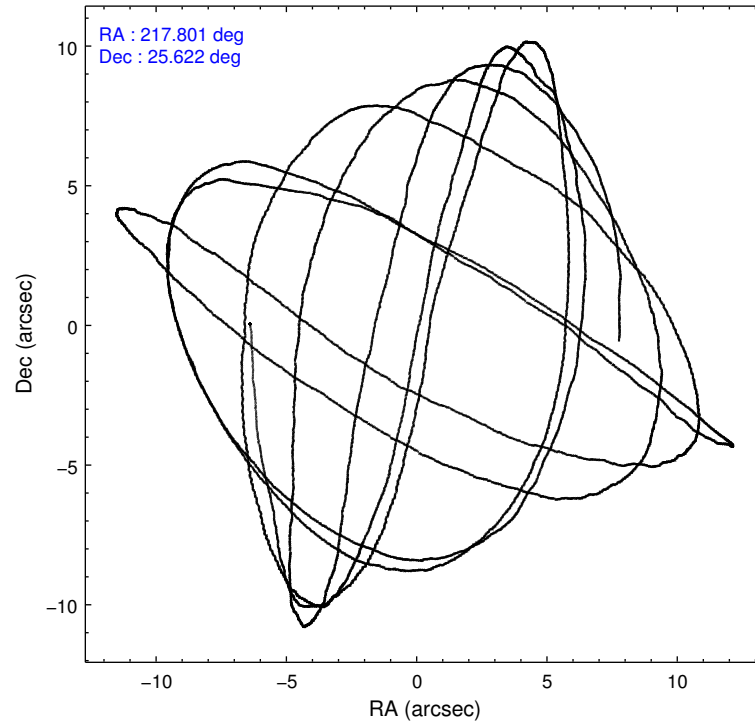
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21254	22601	24423	25036	23732
rejected events	18392	19369	21010	20035	20976
rejected %	86%	85%	86%	80%	88%

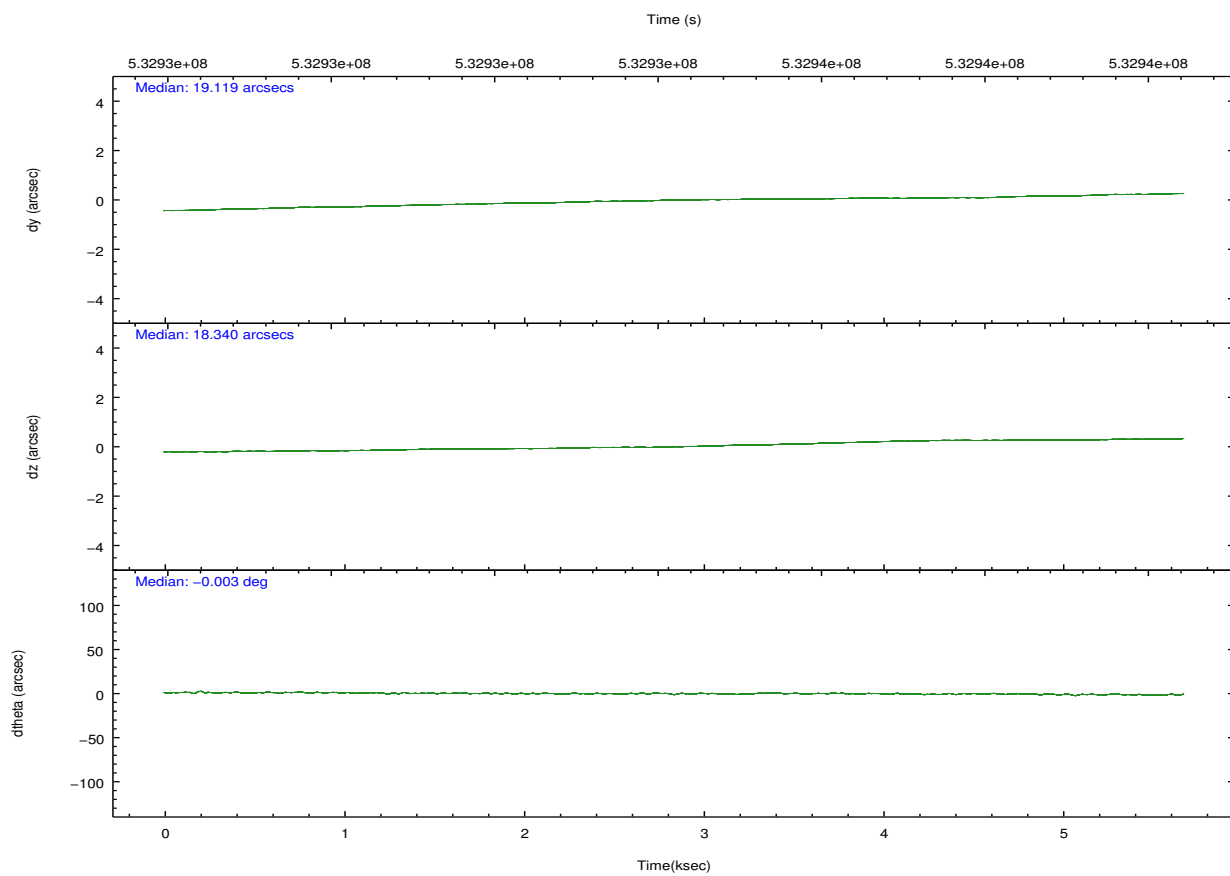
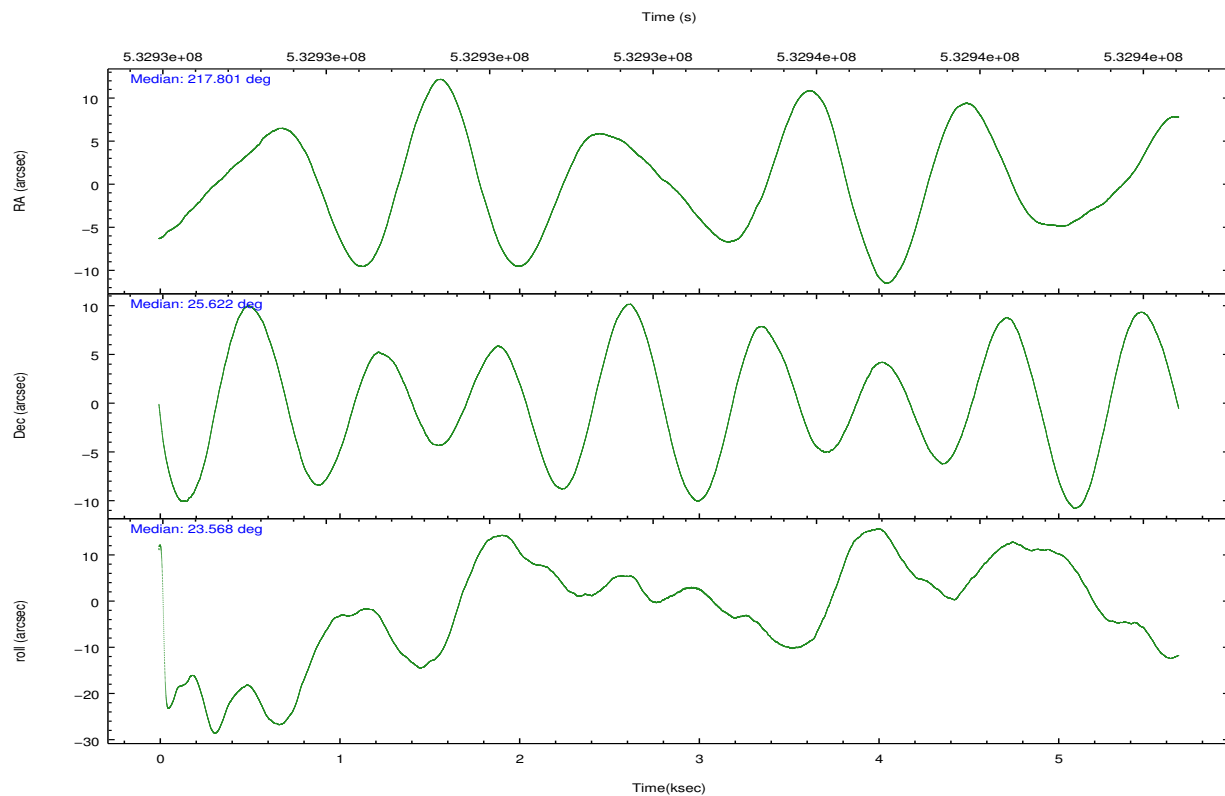
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1113	1347	1599	3020	1070
	5%	5%	6%	12%	4%
grade 1 events	11	18	20	28	20
	0%	0%	0%	0%	0%
grade 2 events	720	682	770	840	629
	3%	3%	3%	3%	2%
grade 3 events	303	344	274	328	253
	1%	1%	1%	1%	1%
grade 4 events	279	292	312	307	279
	1%	1%	1%	1%	1%
grade 5 events	810	928	727	918	825
	3%	4%	2%	3%	3%
grade 6 events	449	570	462	507	529
	2%	2%	1%	2%	2%
grade 7 events	17569	18420	20259	19088	20127
	82%	81%	82%	76%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	217.783294	217.8013976739405	CCD I2 on	Y	Y
[deg] Pointing Dec	25.599899	25.62218138954333	CCD I3 on	Y	Y
[deg] Pointing Roll	23.361890	23.56286964538559	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	532931931.184000	532930726.31792	CCD S5 on	N	N
Observation start date	2014-11-21T04:37:44	2014-11-21T04:18:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	532936931.184000	532937128.46827	On-chip summing requested	N	N
Observation end date	2014-11-21T06:01:04	2014-11-21T06:05:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



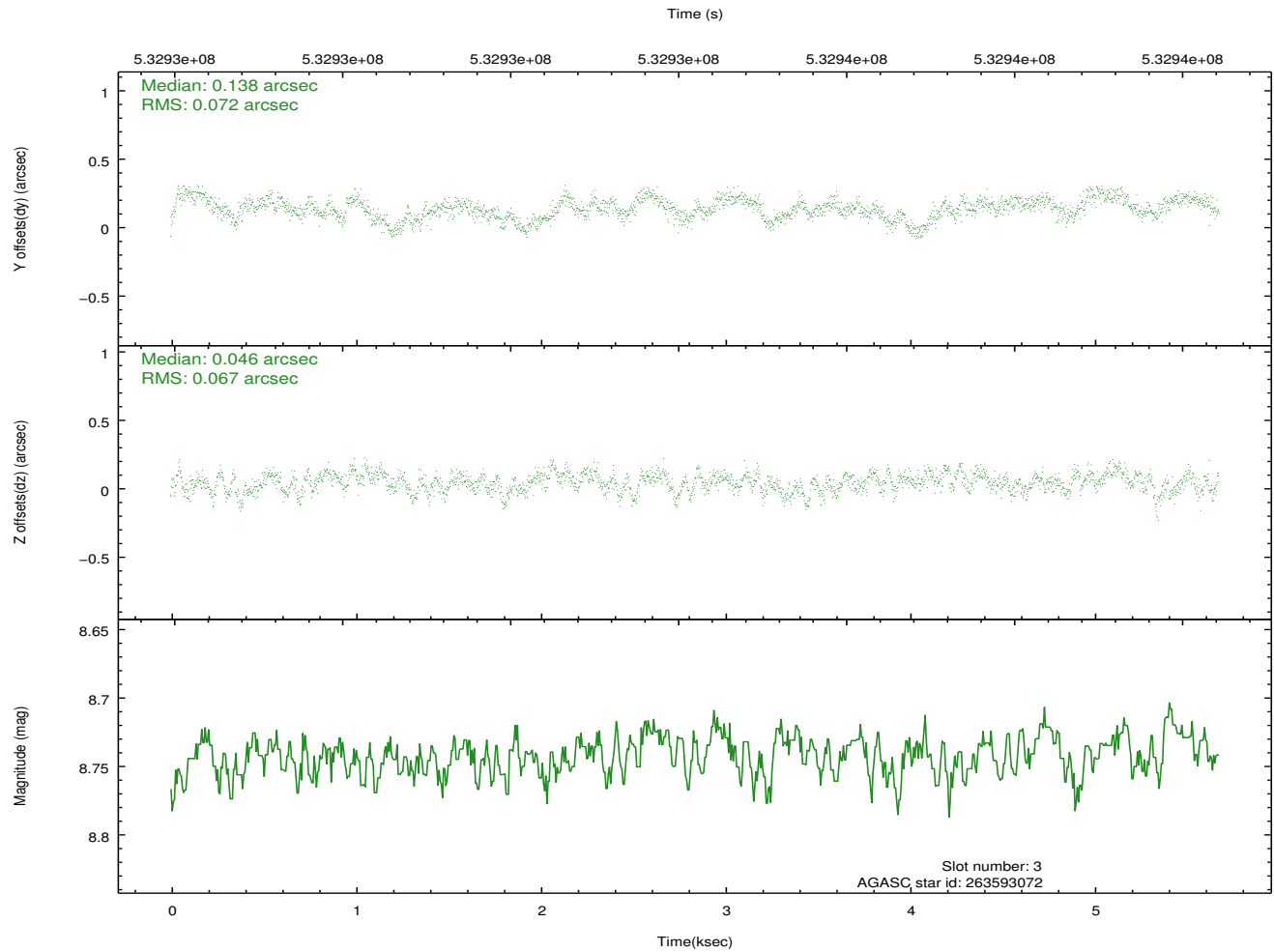
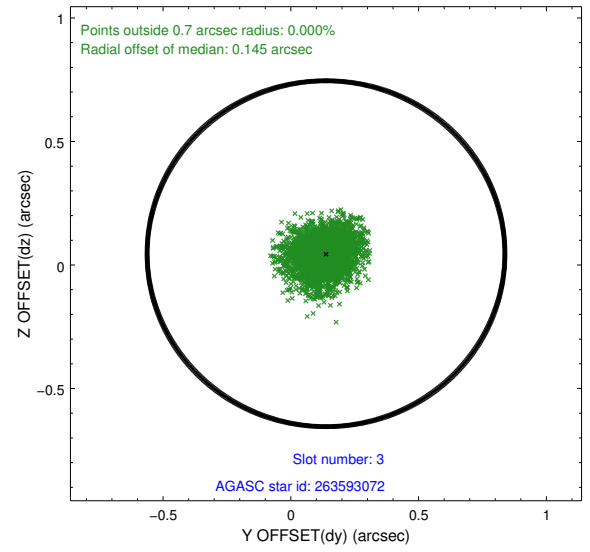
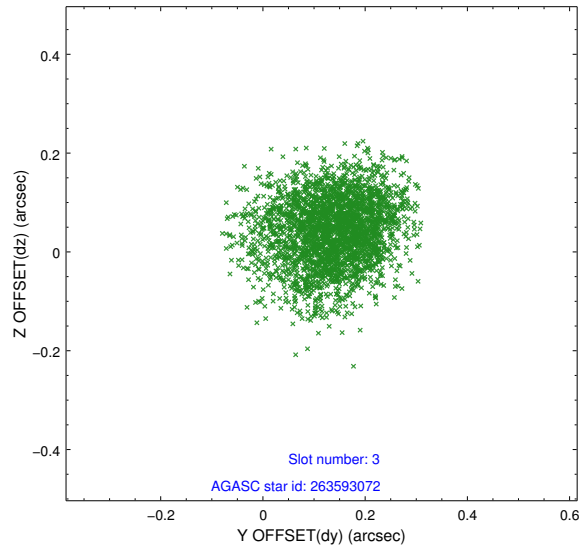


Slot Statistics

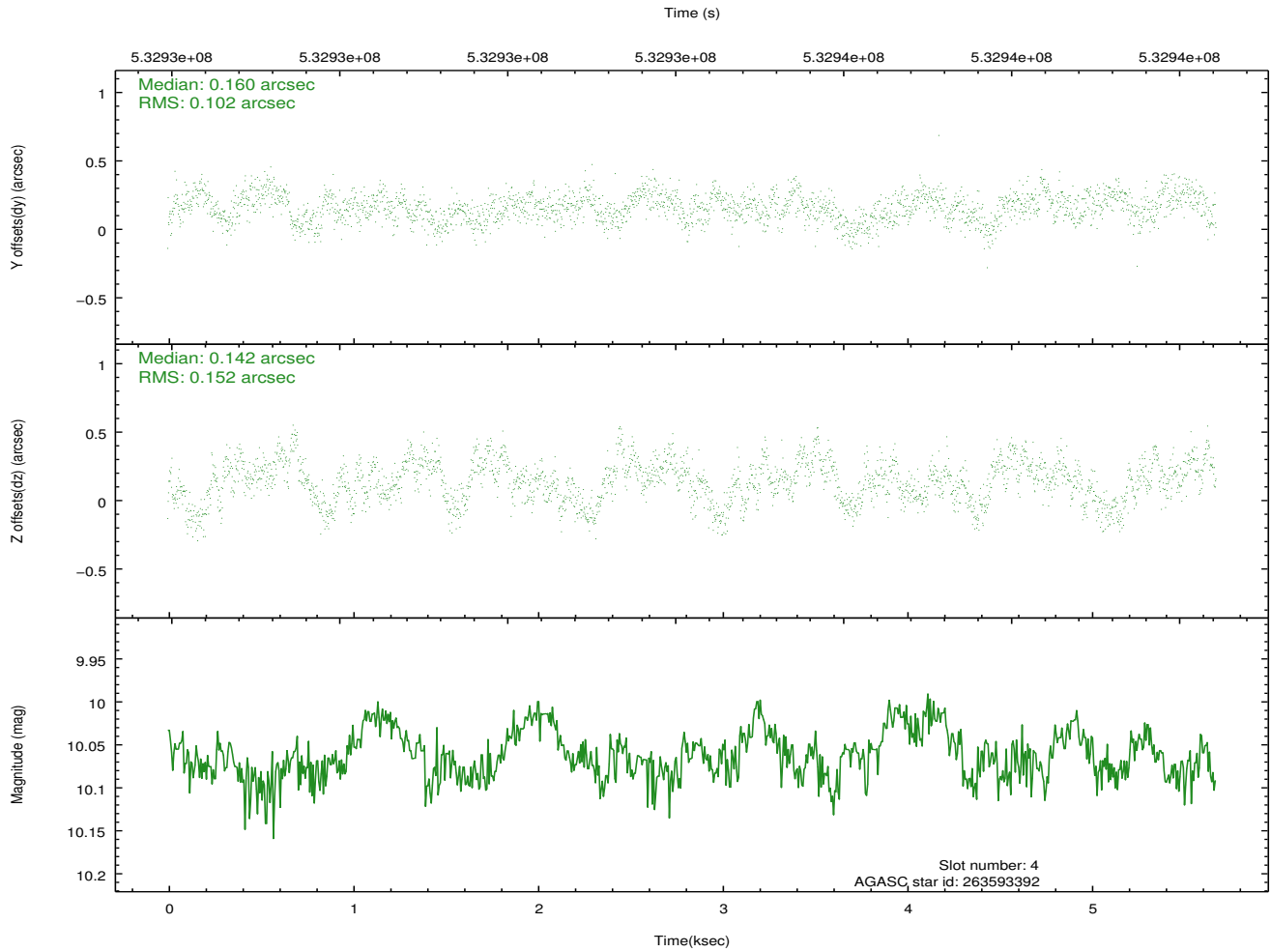
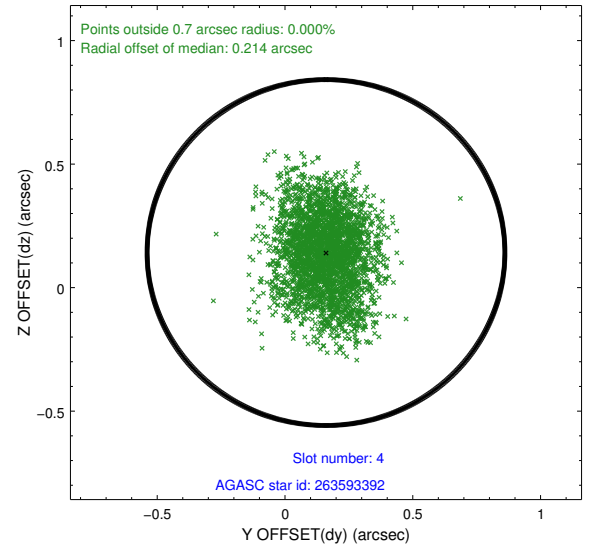
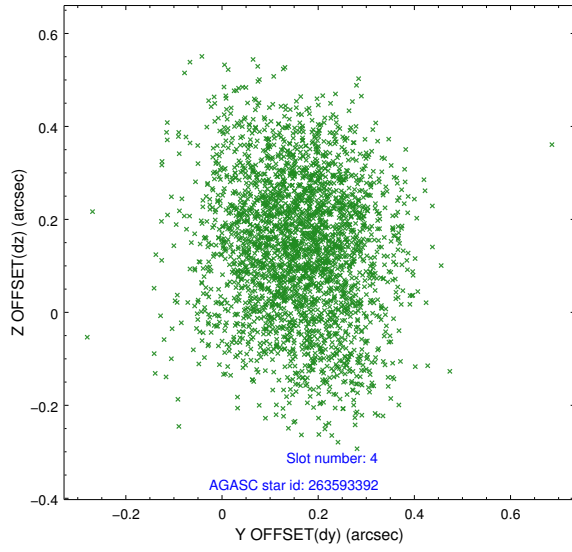
lot	status	used	id	mag	n_pts	med_dy	med_dz	drl	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.02	1385	0.052	0.038	0.013	0.028	0.000000	0.000000	920.35	-842.01
1	FID		ACIS-I-5	7.01	1385	-0.269	0.052	0.009	0.015	0.000000	0.000000	-1827.53	1054.90
2	FID		ACIS-I-6	7.02	1385	0.128	-0.022	0.009	0.014	0.000000	0.000000	384.77	1700.57
3	GUIDE	used	263593072	8.74	2770	0.138	0.046	0.104	0.169	217.618329	25.089921	-1220.96	-1471.90
4	GUIDE	used	263593392	10.06	2764	0.160	0.142	0.197	0.315	217.417665	25.334918	-1469.57	-404.05
5	BAD	used	263593672	5.51	1728	-0.326	0.098	0.084	0.136	217.191798	25.853880	-1395.50	1602.01
6	GUIDE	used	264508736	10.34	2734	0.332	0.372	0.269	0.466	218.677451	25.262092	2193.97	-2261.69
7	GUIDE	used	264509696	10.33	2734	-0.408	-0.606	0.245	0.404	218.526201	25.492086	2065.77	-1309.31

2.4 Star Slots

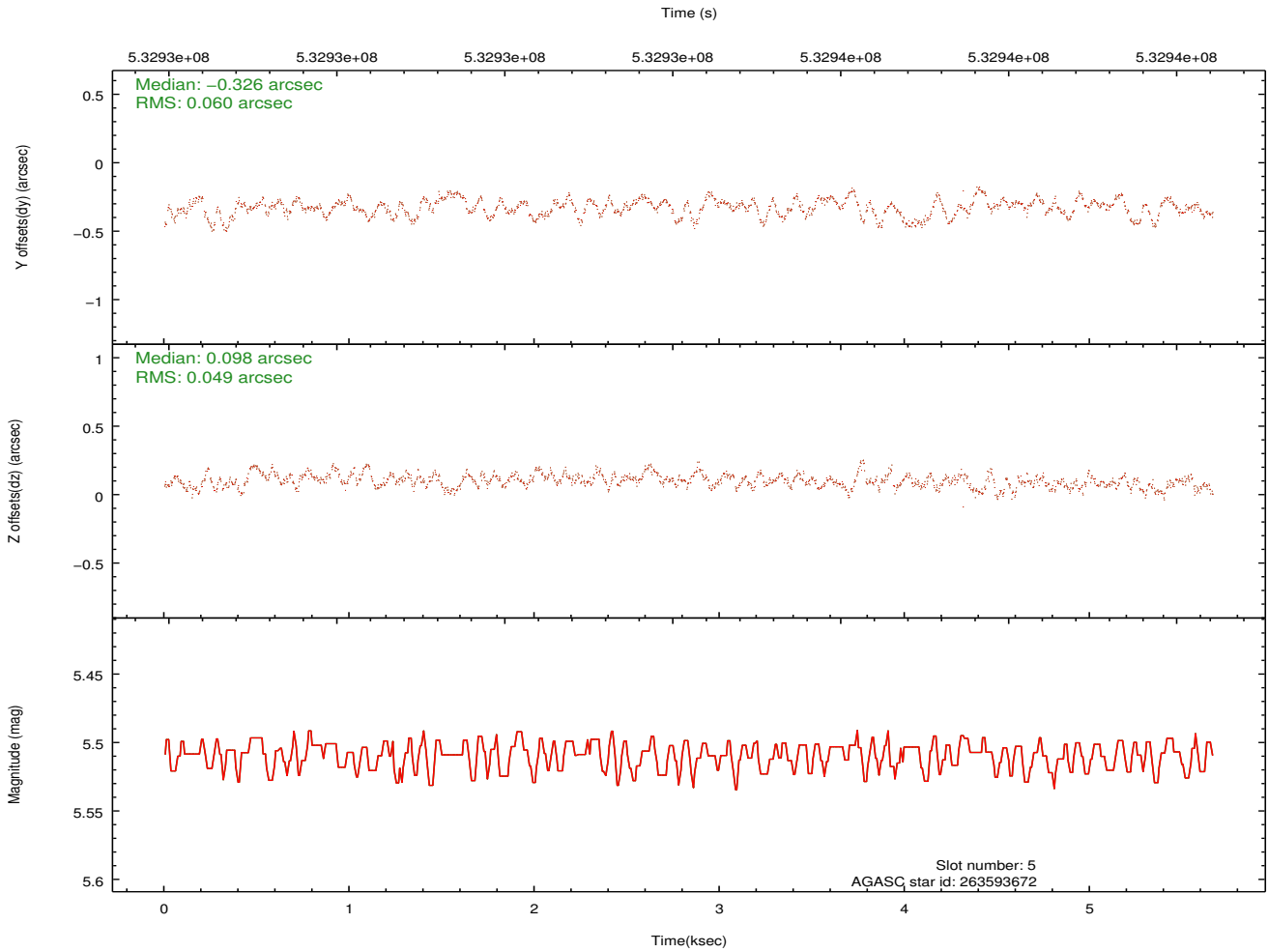
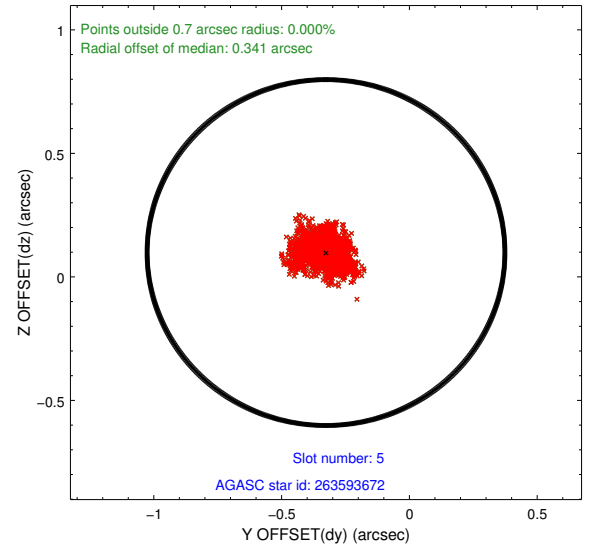
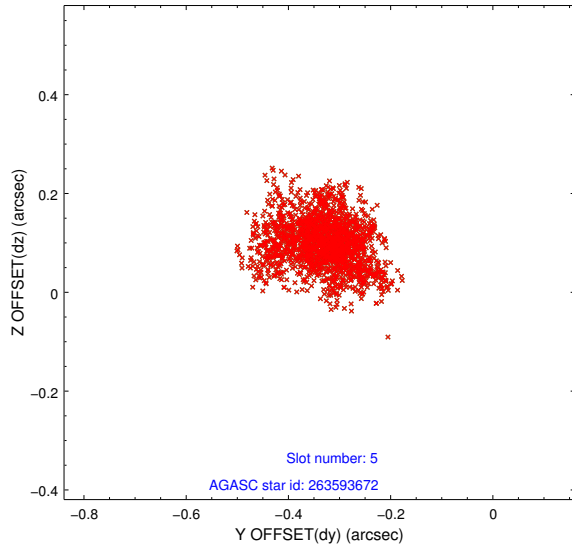
2.4.1 Slot 3



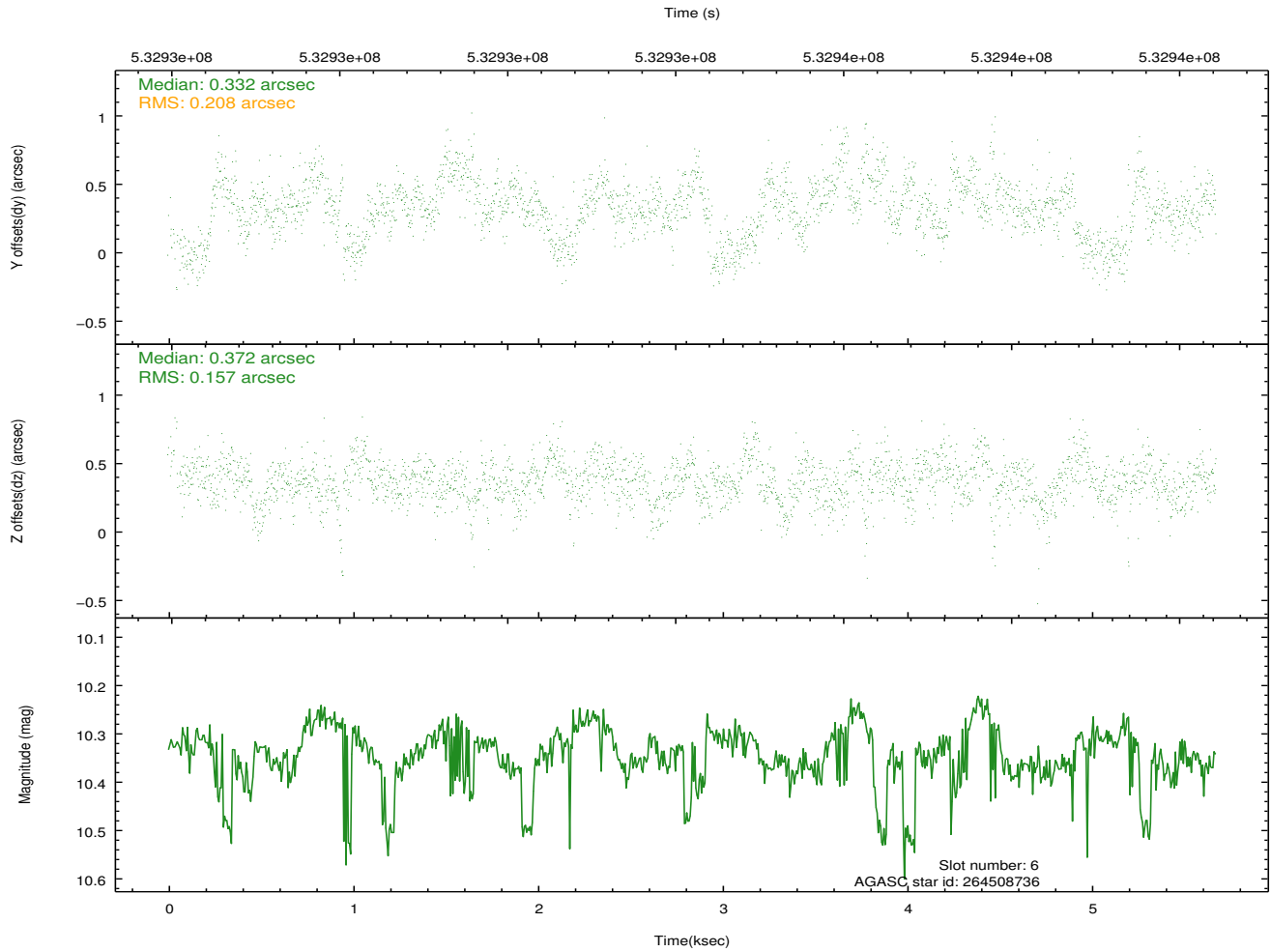
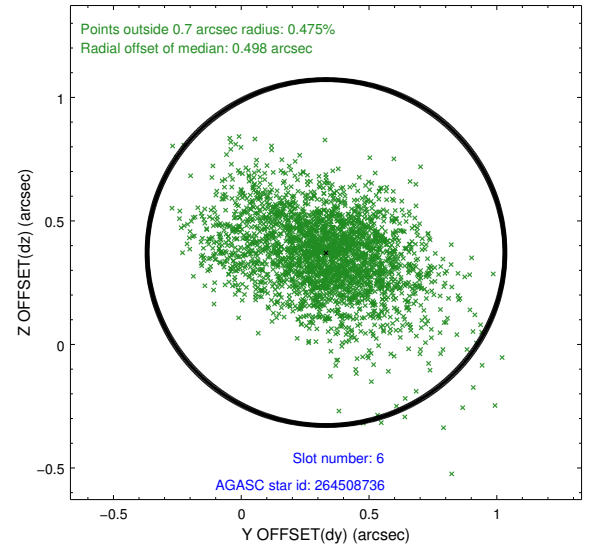
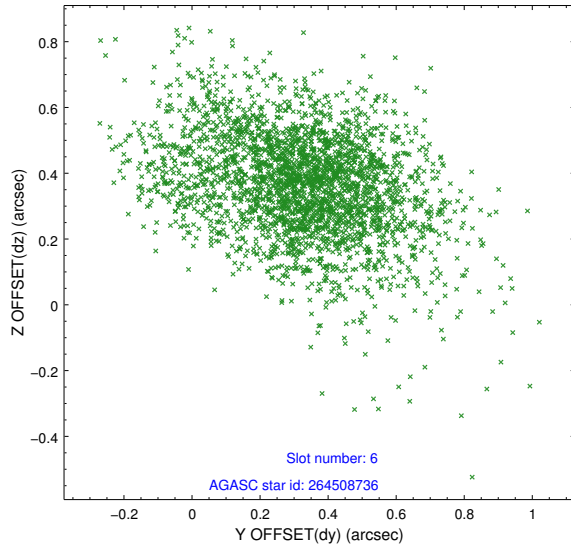
2.4.2 Slot 4



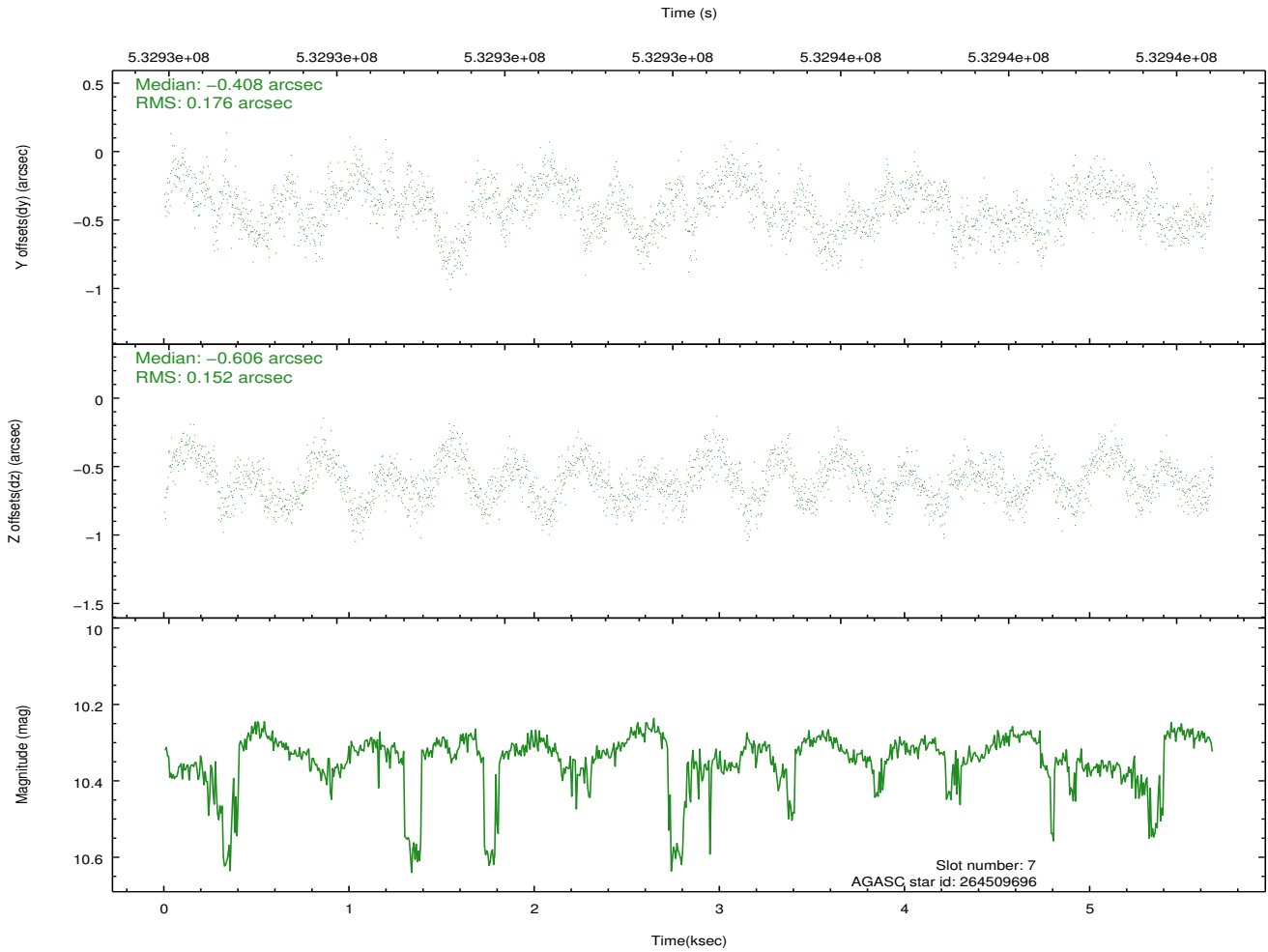
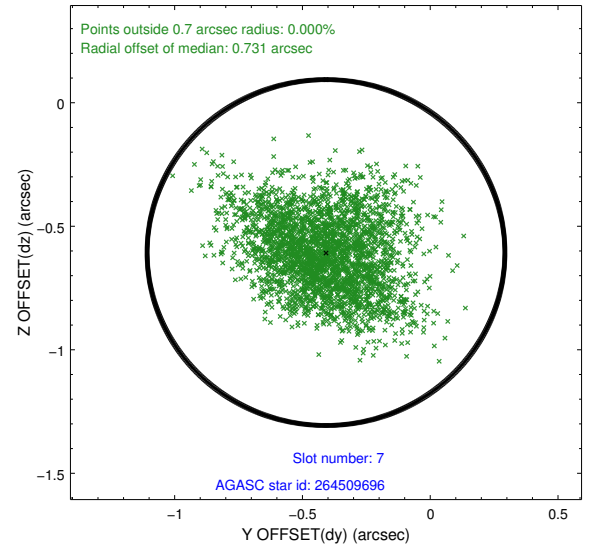
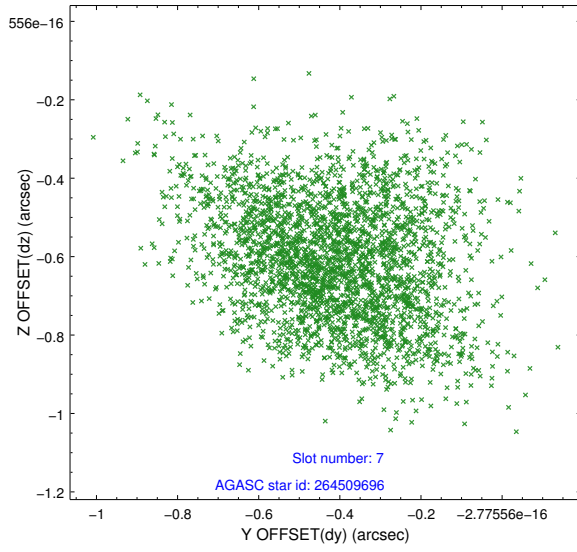
2.4.3 Slot 5



2.4.4 Slot 6

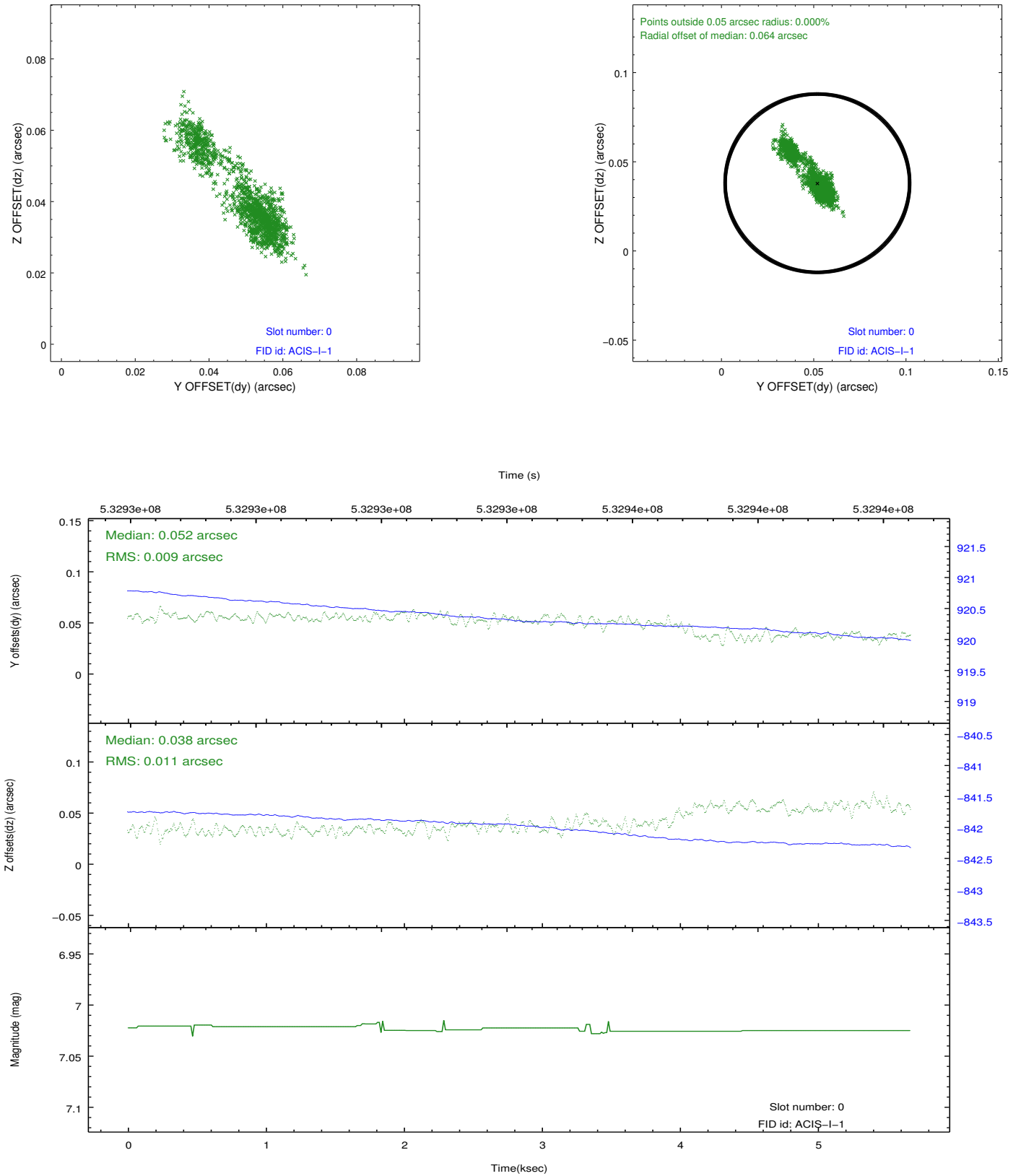


2.4.5 Slot 7

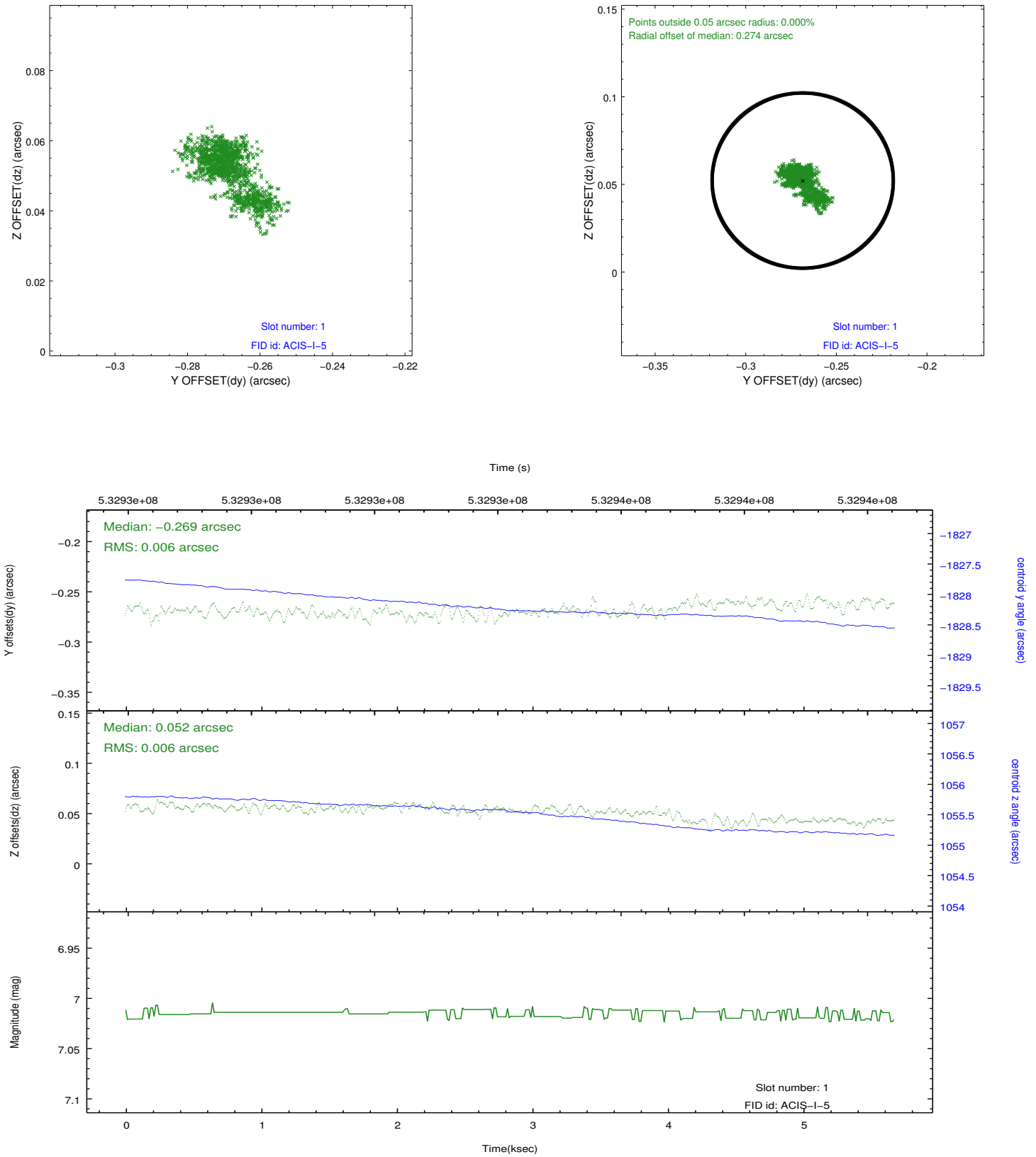


2.5 FID Slots

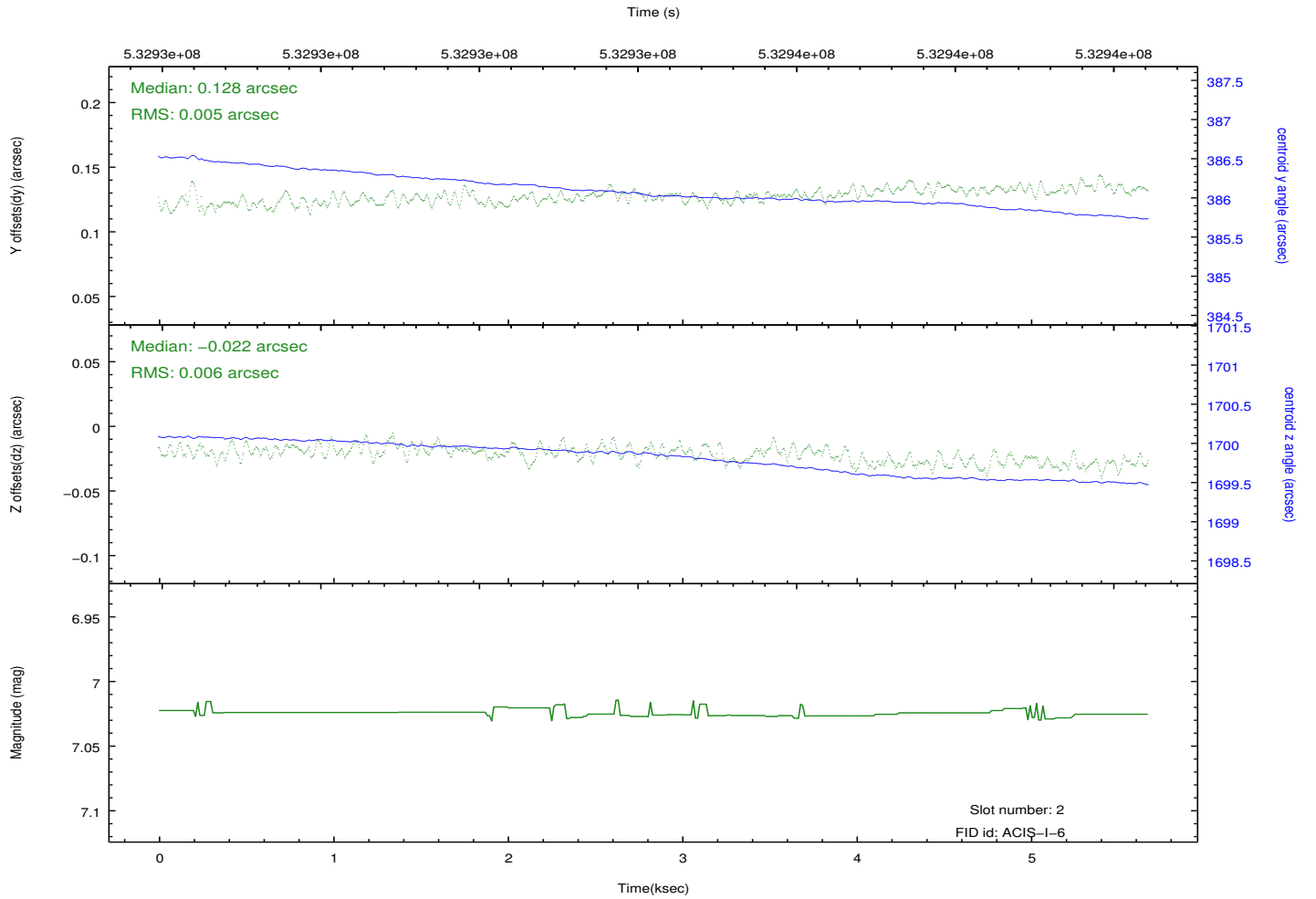
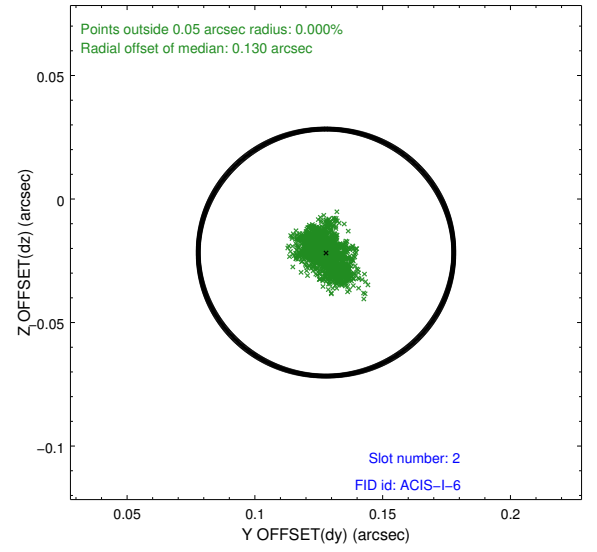
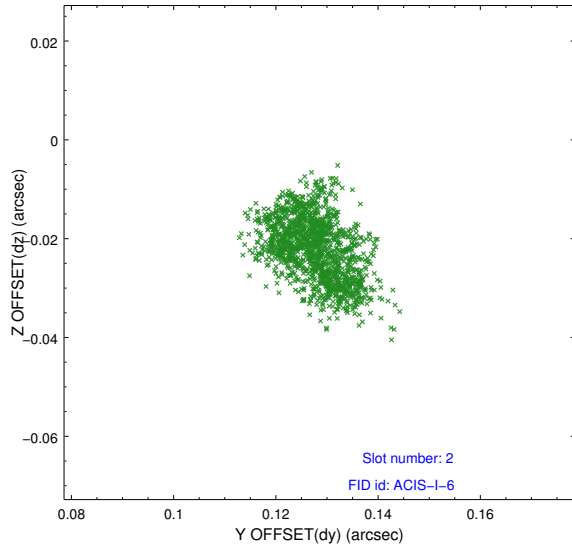
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.11.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1233604605794

A.2 Comments