

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16155 - L2 Version 1
Chandra X-Ray Center

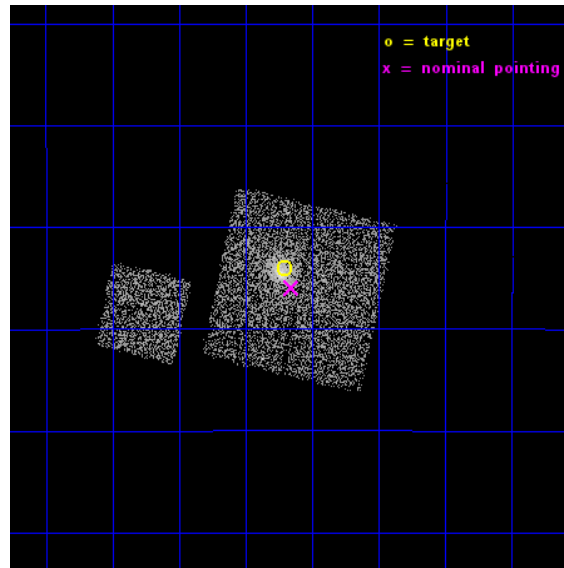
L2 Processing Date : Dec 6 2014

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1 Front

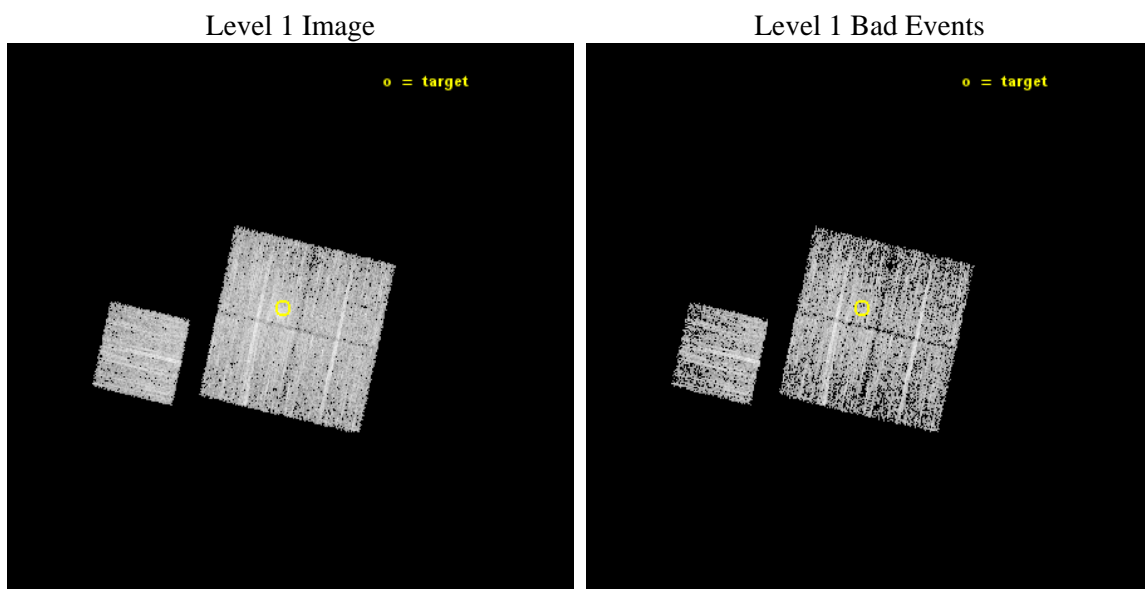
seq_num	801408	Sequence number
obs_id	16155	Observation id
title	Setting the Scale: Supporting precision cluster cosmology with Chandra observations of low-z lensing clusters	Proposal title
observer	Dr Adam Mantz	Principal investigator
object	RXJ2043.2-2144	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	310.802083	Observer's specified target RA [deg]
dec_targ	-21.735	Observer's specified target Dec [deg]
ra_nom	310.78931270795	Nominal RA [deg]
dec_nom	-21.766127060229	Nominal Dec [deg]
roll_nom	282.80186955058	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6125.6000471115	Sum of GTIs [s]
livetime	6045.5645728949	Livetime [s]
ontime0	6125.6000471115	Sum of GTIs [s]
ontime1	6125.6000471115	Sum of GTIs [s]
ontime2	6125.6000471115	Sum of GTIs [s]
ontime3	6125.6000471115	Sum of GTIs [s]
ontime6	6125.6000471115	Sum of GTIs [s]
l2events	13585	Number of level 2 events



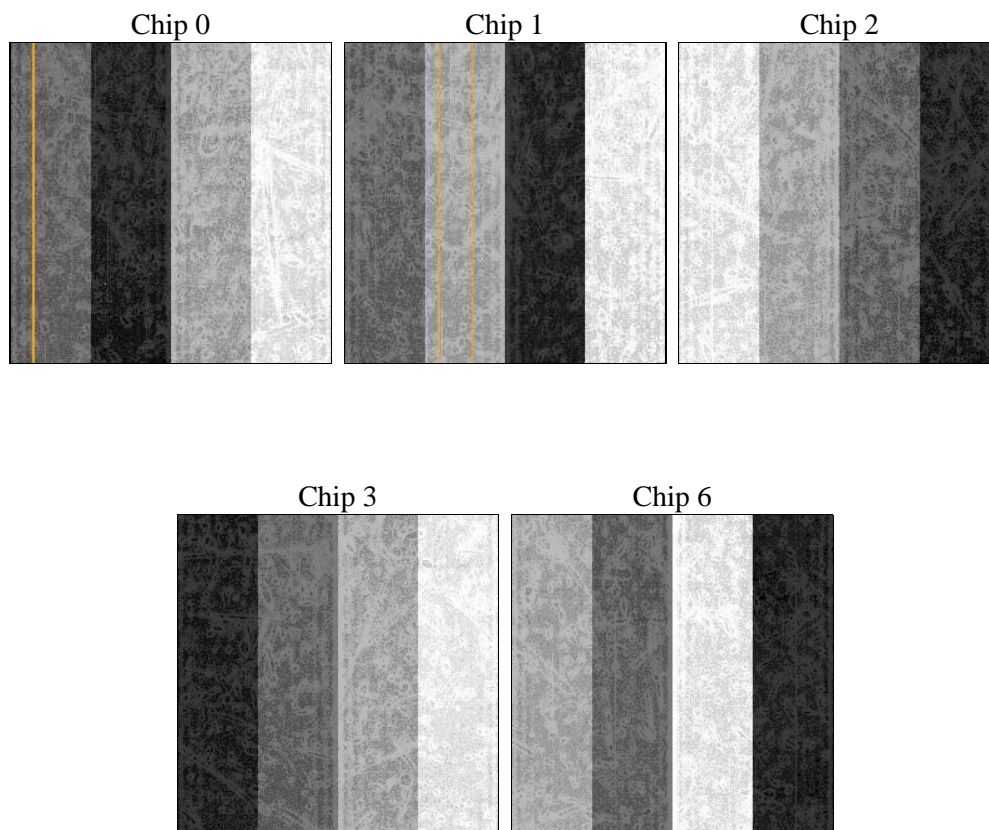
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	6125.6000471115	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	6125.6000471115	Sum of GTIs [s]
date	2014-12-06T22:27:38	Date and time of file creation	ontime1	6125.6000471115	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6125.6000471115	Sum of GTIs [s]
			ontime3	6125.6000471115	Sum of GTIs [s]
			ontime6	6125.6000471115	Sum of GTIs [s]
			l1events	120176	Number of level 1 events

2.1.4 Events

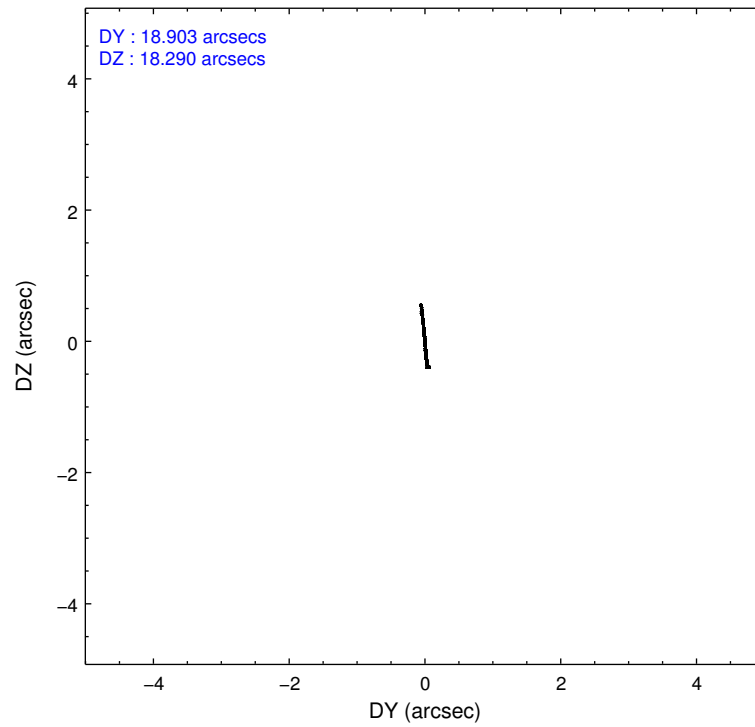
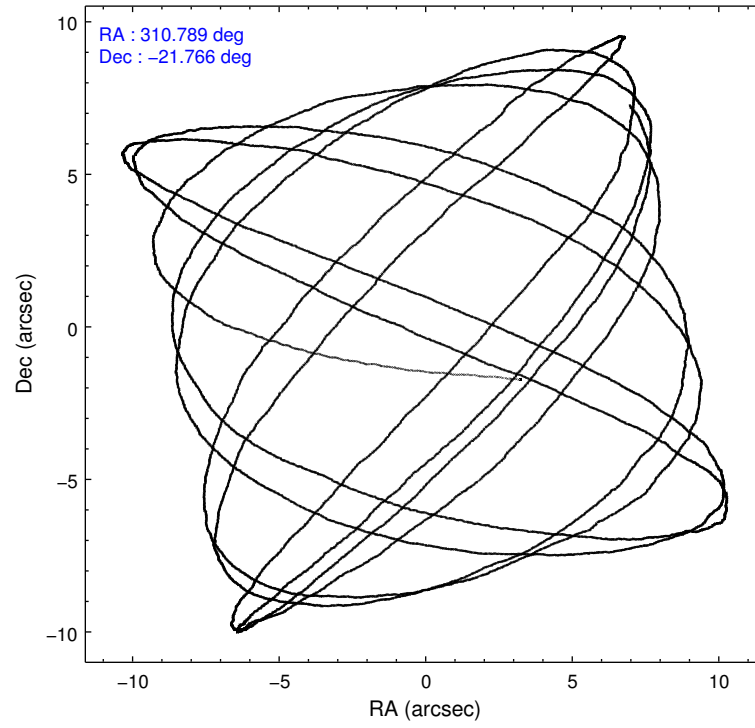
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21620	22091	25427	25937	25101
rejected events	18773	19053	22558	21639	22213
rejected %	86%	86%	88%	83%	88%

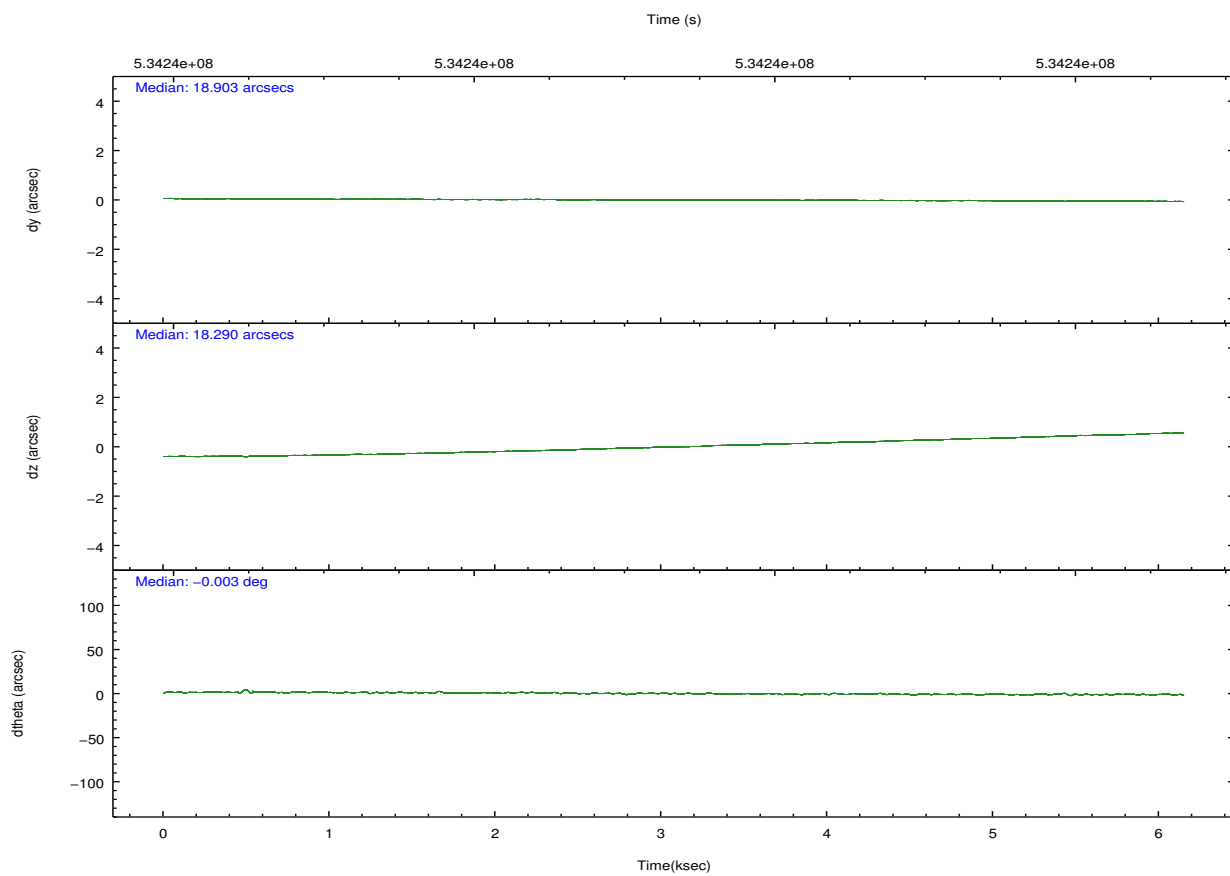
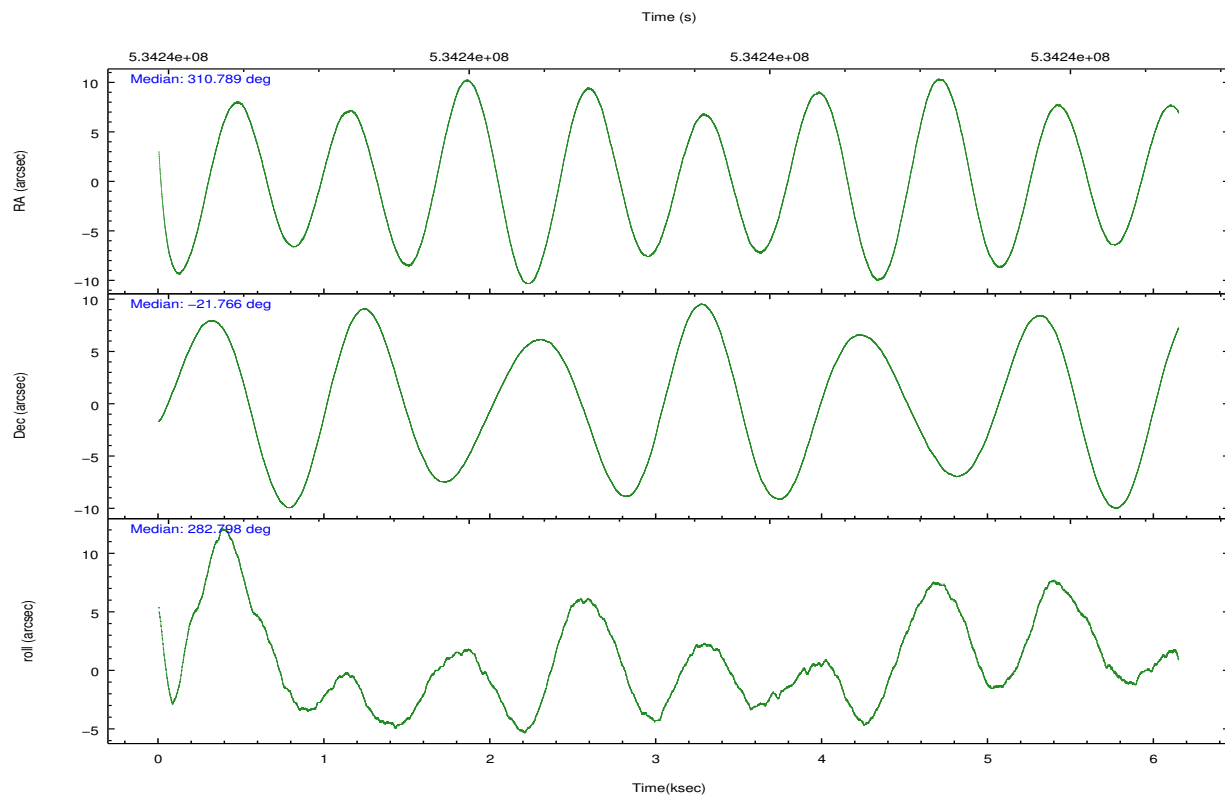
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1109	1192	1274	2417	1111
	5%	5%	5%	9%	4%
grade 1 events	15	12	12	23	12
	0%	0%	0%	0%	0%
grade 2 events	706	684	653	706	659
	3%	3%	2%	2%	2%
grade 3 events	314	310	236	340	310
	1%	1%	0%	1%	1%
grade 4 events	251	294	260	317	246
	1%	1%	1%	1%	0%
grade 5 events	804	882	753	933	846
	3%	3%	2%	3%	3%
grade 6 events	470	559	448	522	564
	2%	2%	1%	2%	2%
grade 7 events	17951	18158	21791	20679	21353
	83%	82%	85%	79%	85%

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	310.769047	310.7893127079458	CCD I2 on	Y	Y
[deg] Pointing Dec	-21.745945	-21.76612706022879	CCD I3 on	Y	Y
[deg] Pointing Roll	282.585661	282.8018695505762	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)	534236410.184000	534235182.90305	CCD S5 on	N	N
Observation start date	2014-12-06T06:59:03	2014-12-06T06:39:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	534242410.184000	534243768.81603	On-chip summing requested	N	N
Observation end date	2014-12-06T08:39:03	2014-12-06T09:02:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



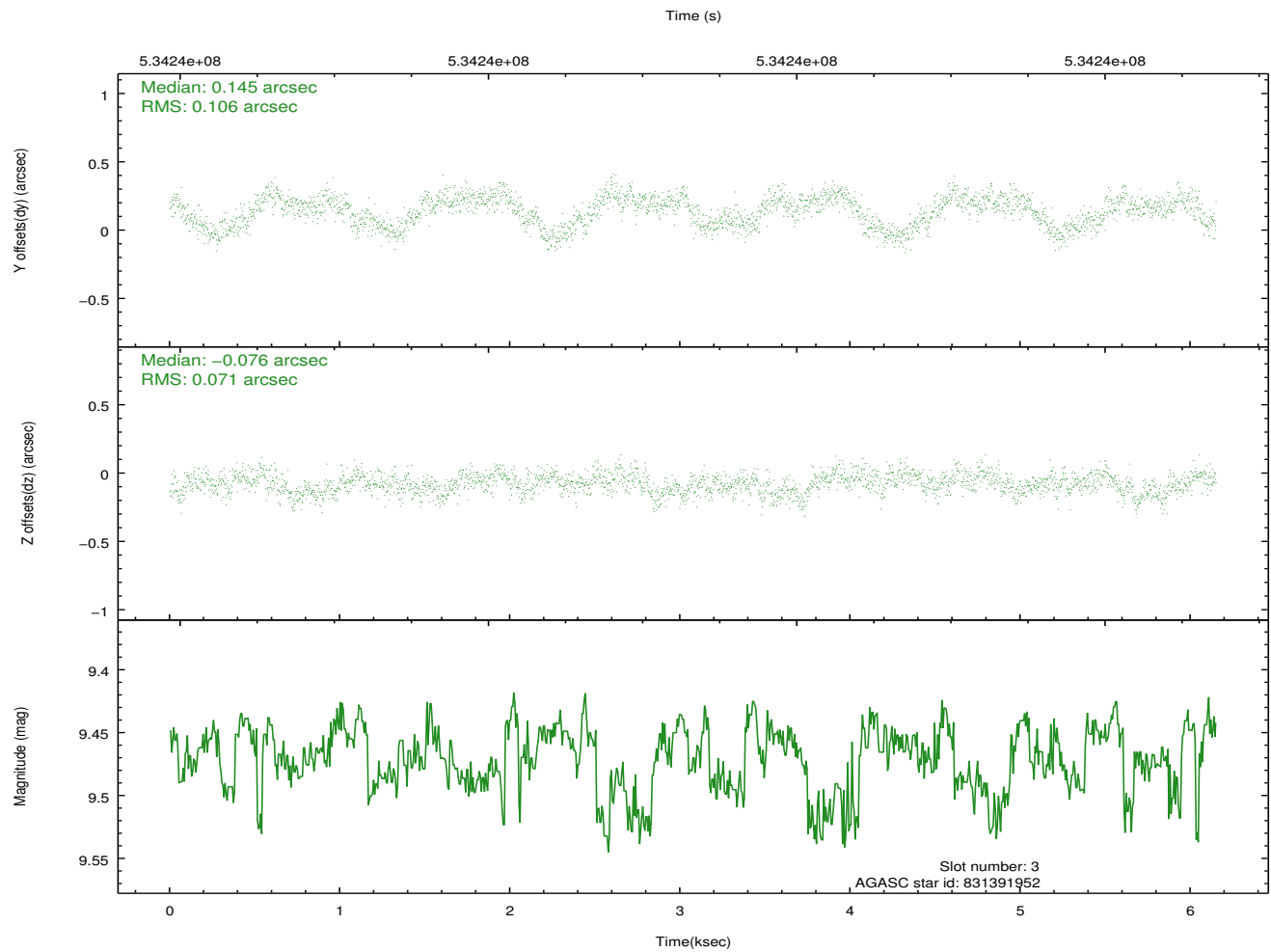
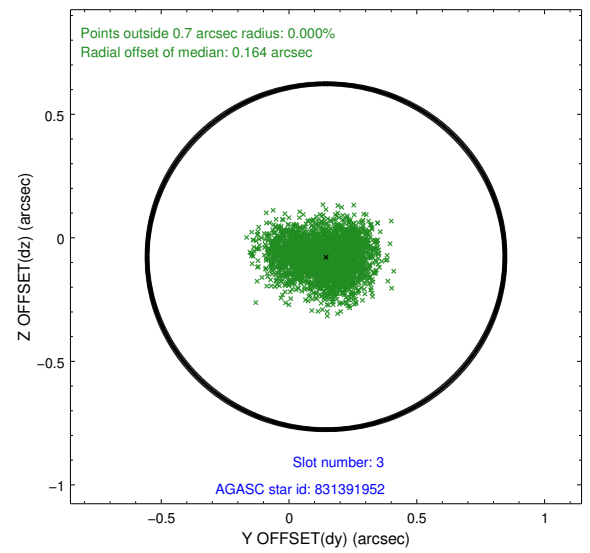
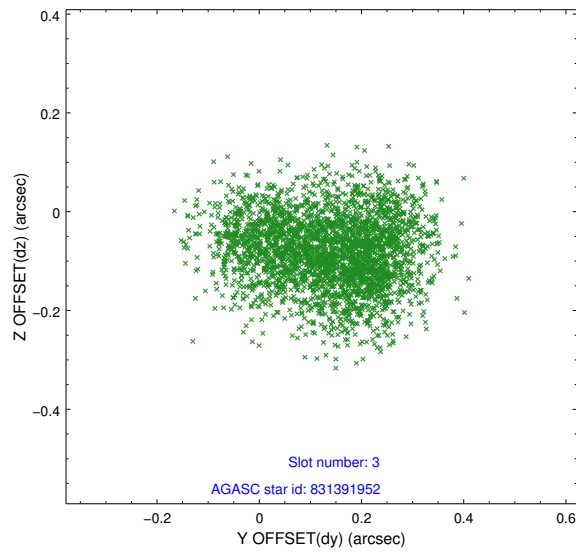


Slot Statistics

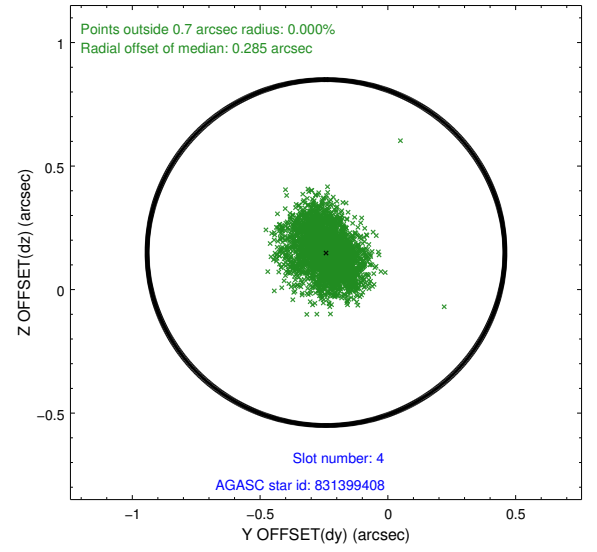
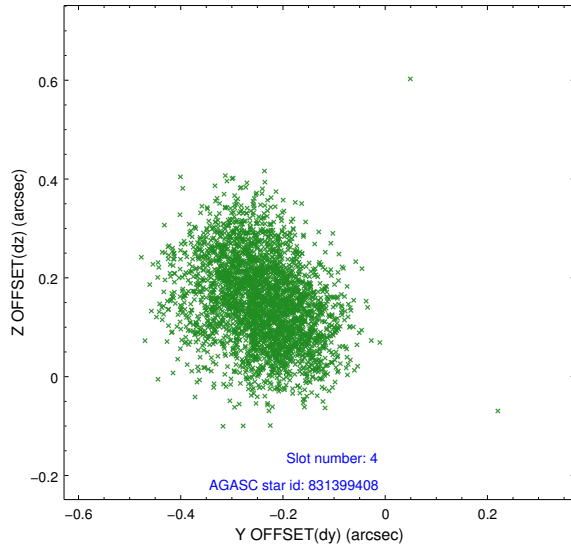
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.22	1500	0.056	0.019	0.014	0.023	0.000000	0.000000	920.52	-841.96
1	FID		ACIS-I-5	7.21	1500	-0.288	0.048	0.010	0.016	0.000000	0.000000	-1827.44	1055.03
2	FID		ACIS-I-6	7.22	1500	0.140	0.005	0.009	0.016	0.000000	0.000000	385.05	1700.62
3	GUIDE	used	831391952	9.47	2996	0.145	-0.076	0.138	0.214	311.339054	-22.257422	2214.81	1451.84
4	GUIDE	used	831399408	9.15	2996	-0.242	0.150	0.125	0.194	310.524525	-21.277067	-1823.31	-432.85
5	GUIDE	used	831403080	9.41	2999	-0.223	-0.086	0.140	0.226	311.138857	-21.605090	-223.89	1318.28
6	GUIDE	used	831403912	9.27	2997	0.237	0.062	0.113	0.182	310.072168	-21.572030	-1113.64	-2141.10
7	GUIDE	used	831393336	9.10	2995	0.102	-0.059	0.137	0.214	310.514049	-22.470236	2360.87	-1396.73

2.4 Star Slots

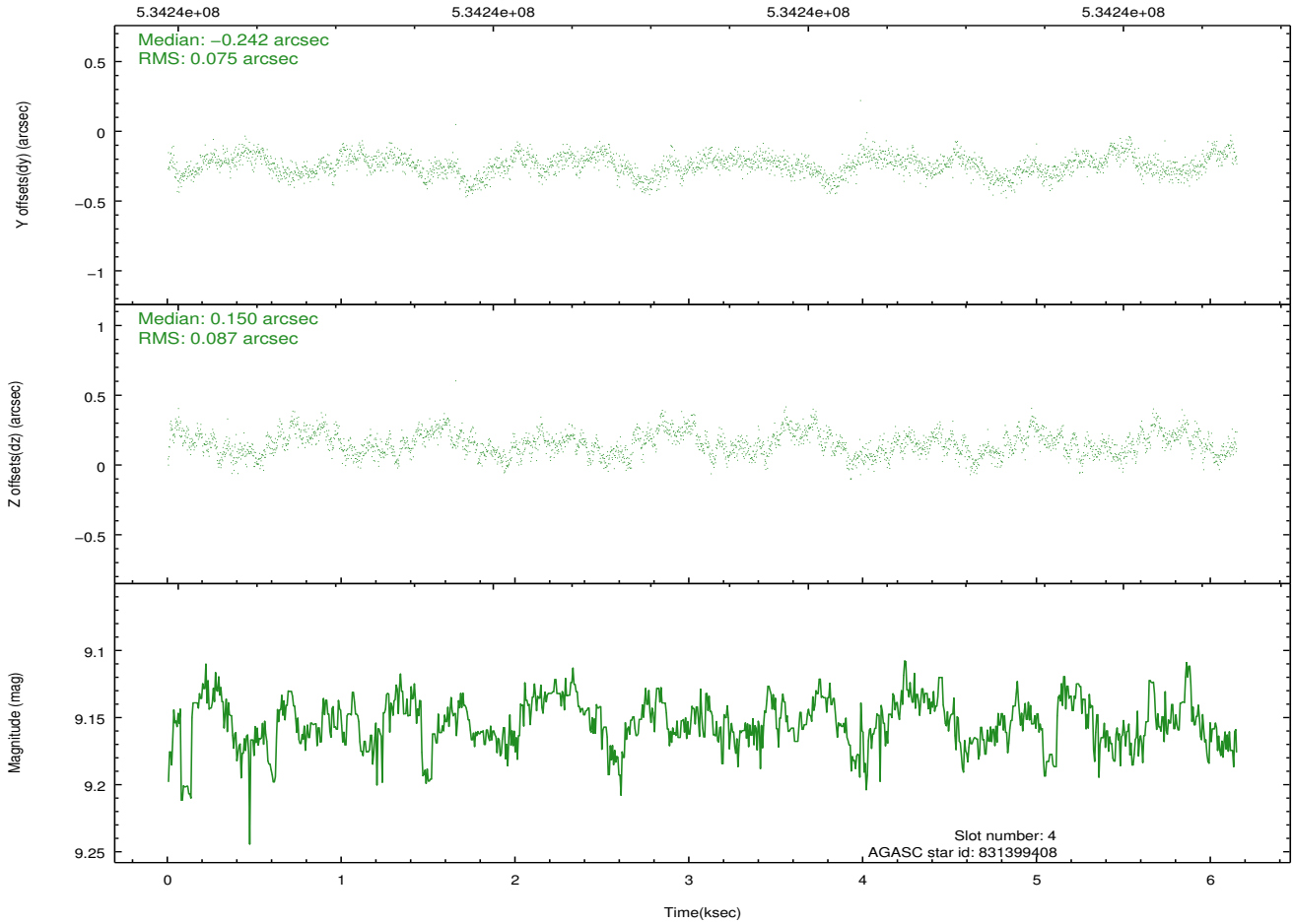
2.4.1 Slot 3



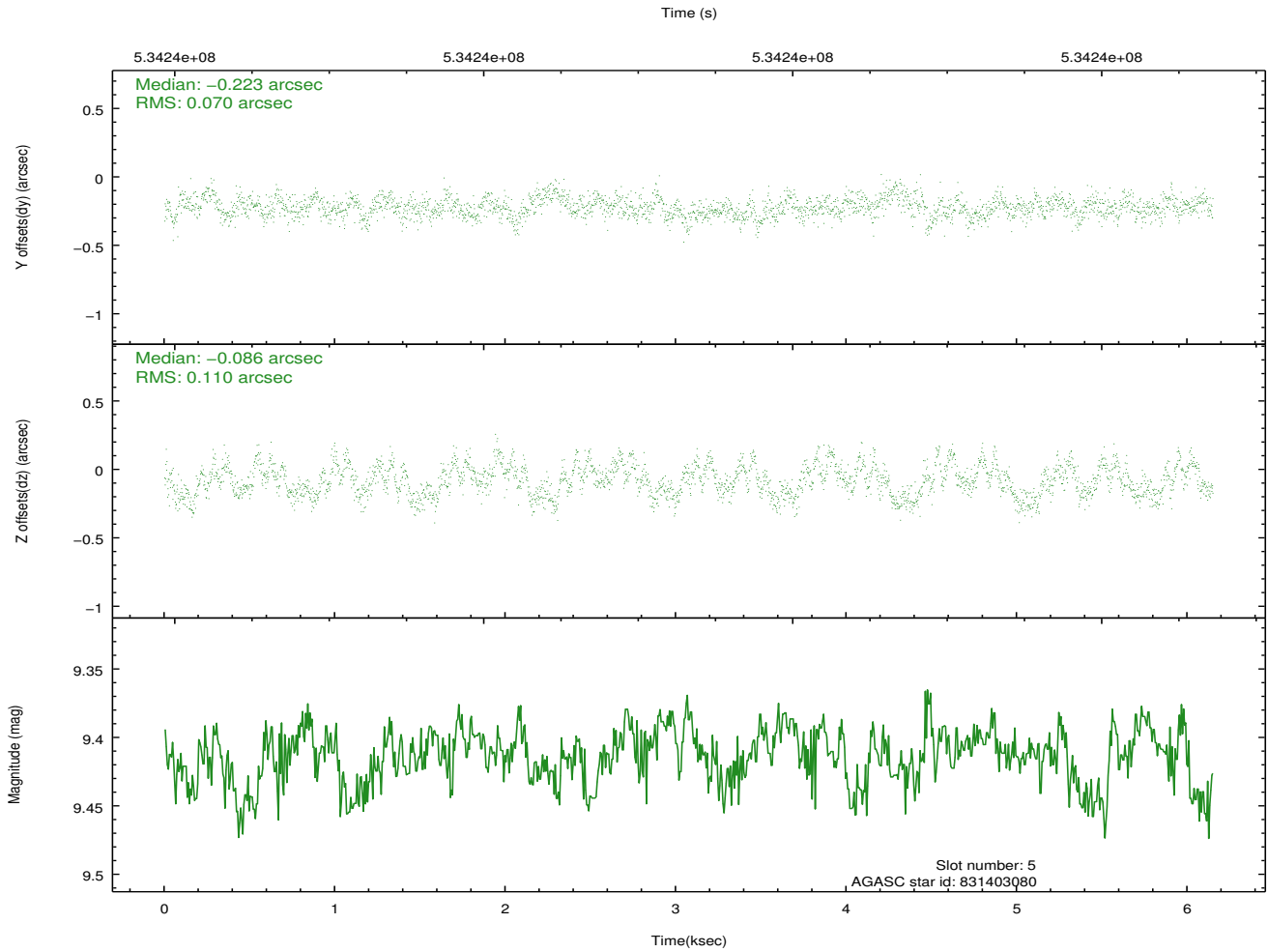
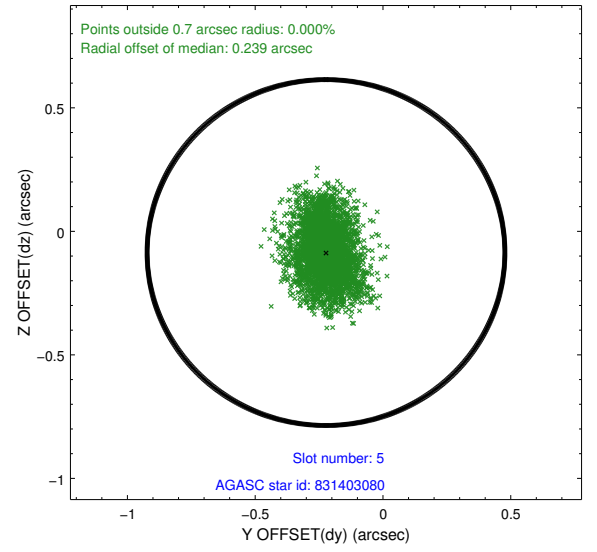
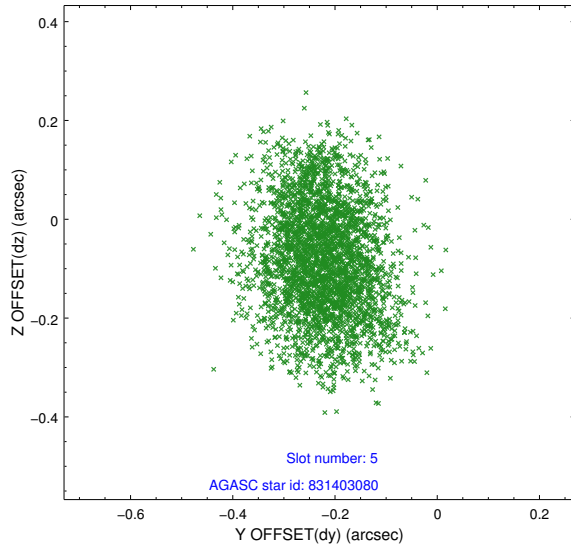
2.4.2 Slot 4



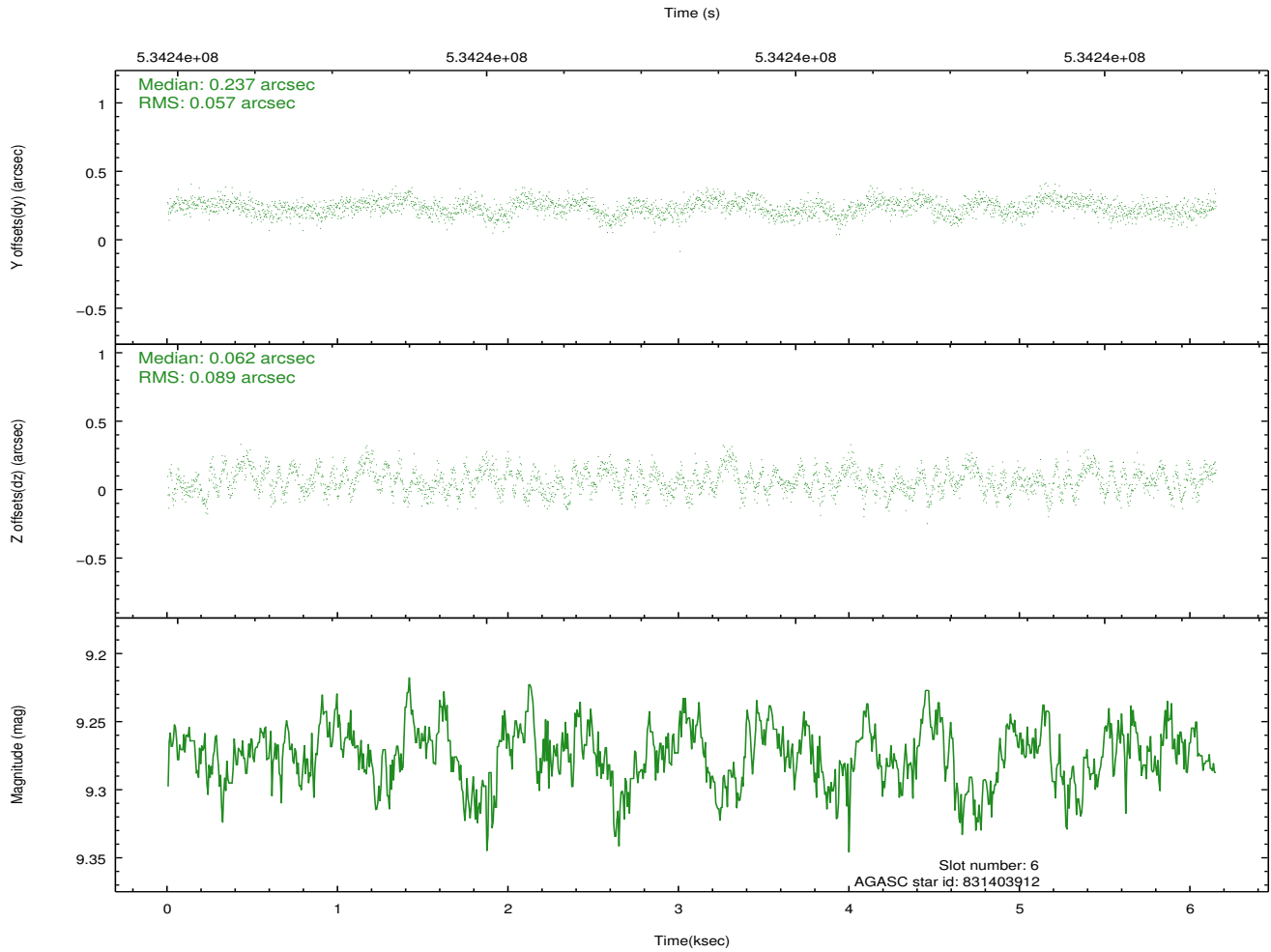
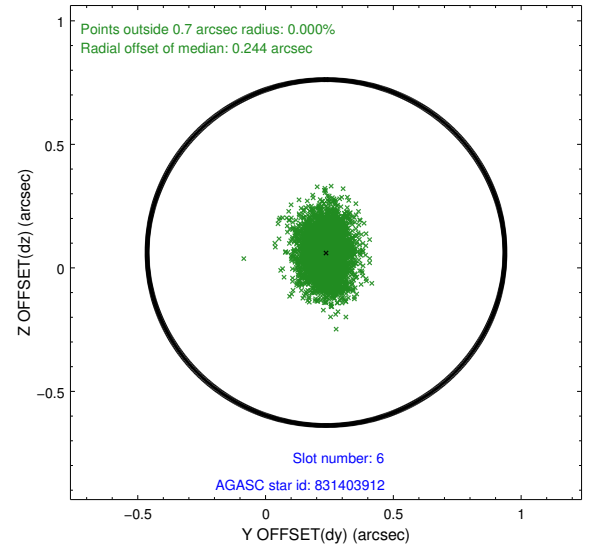
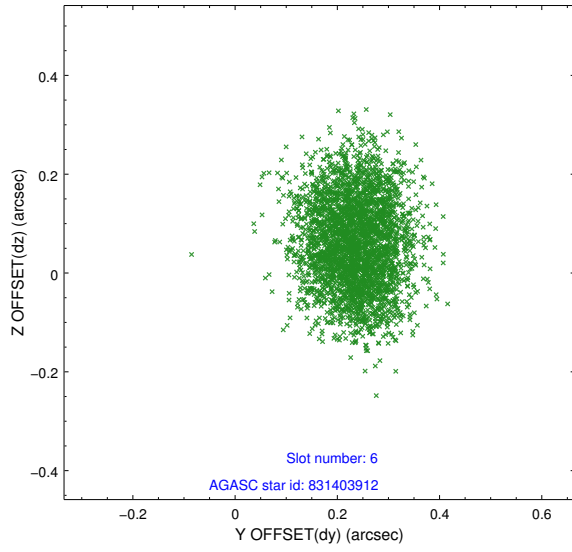
Time (s)



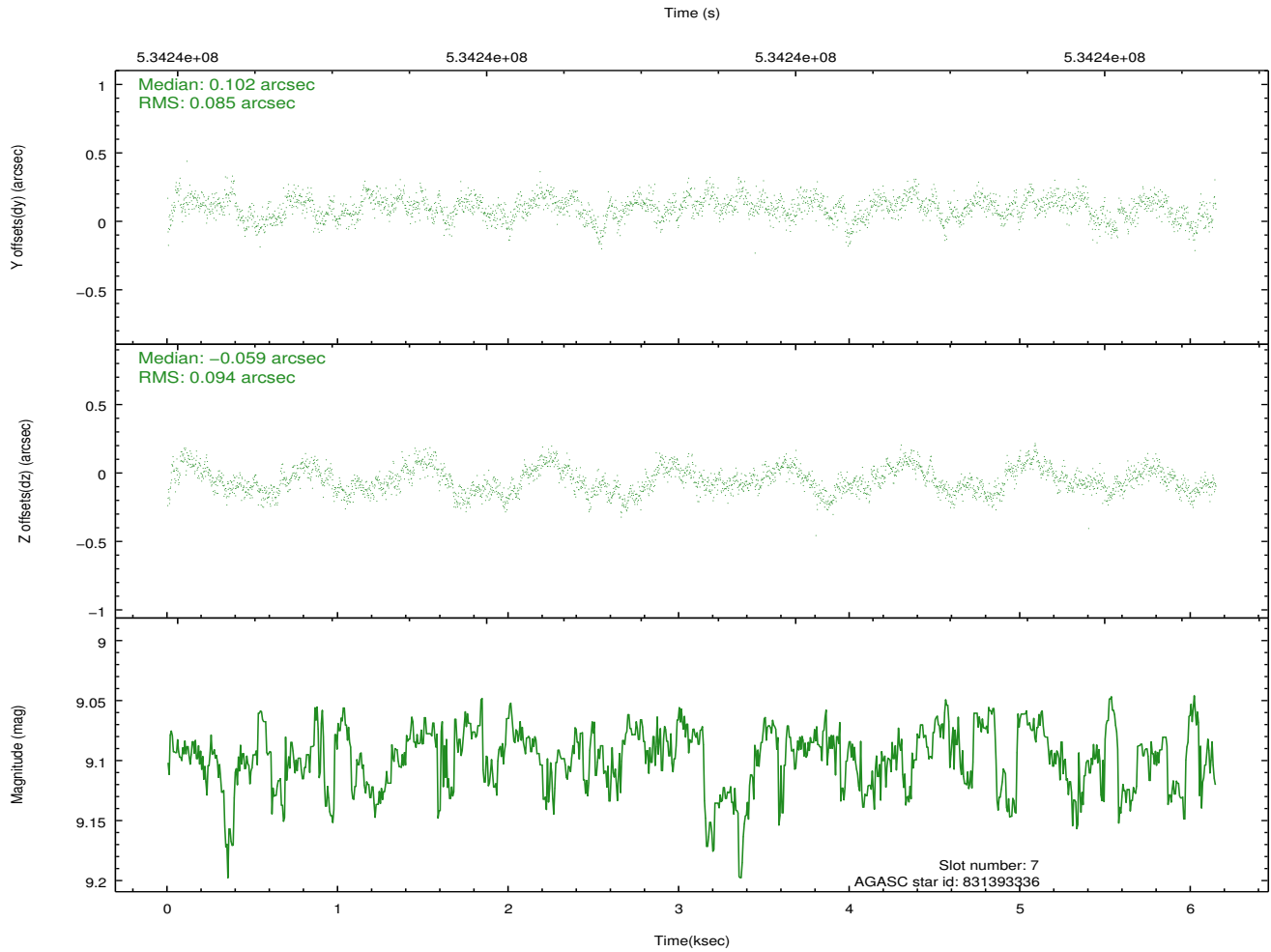
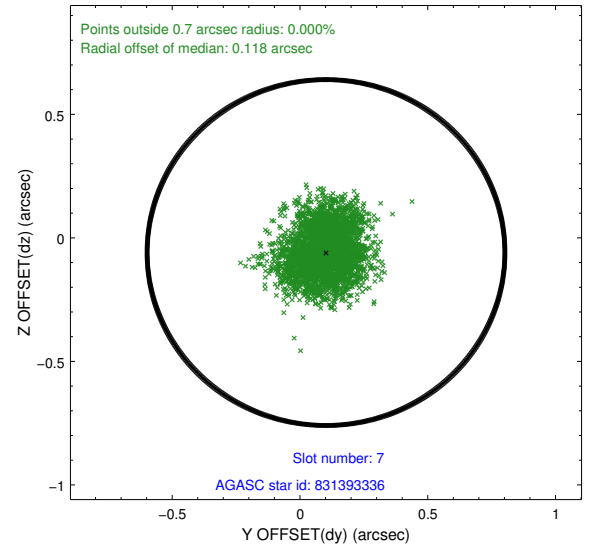
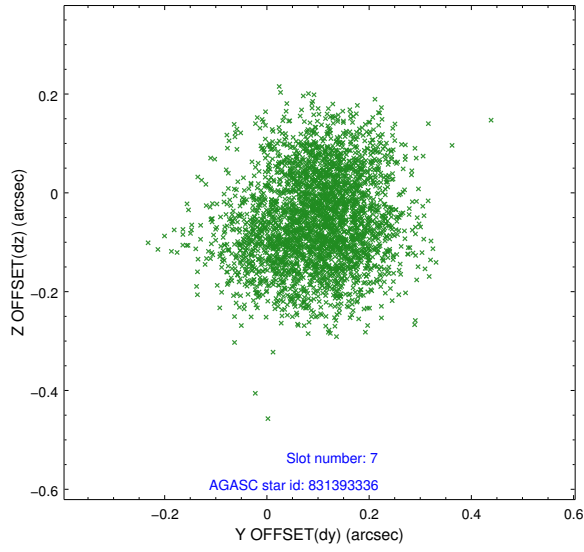
2.4.3 Slot 5



2.4.4 Slot 6

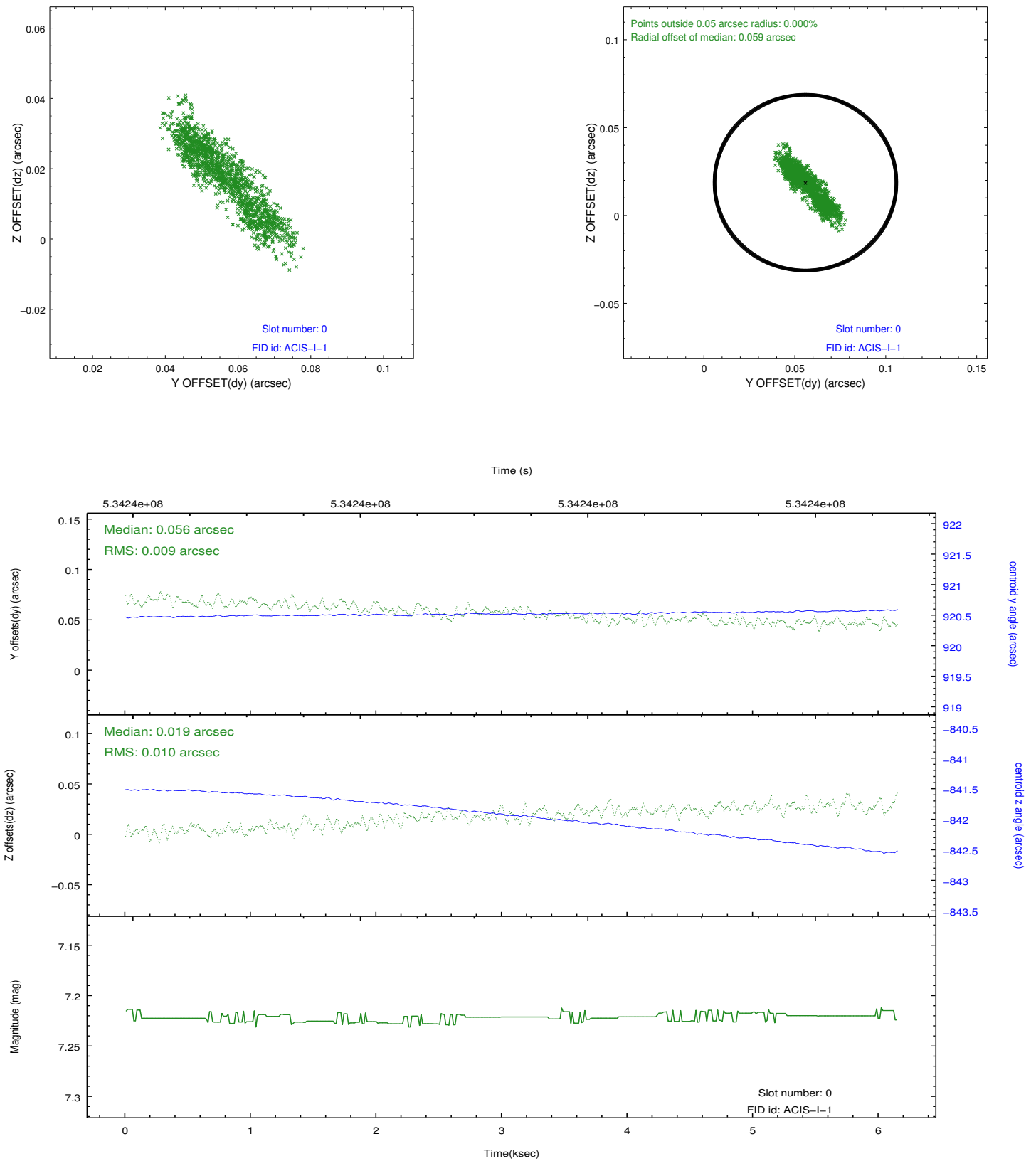


2.4.5 Slot 7

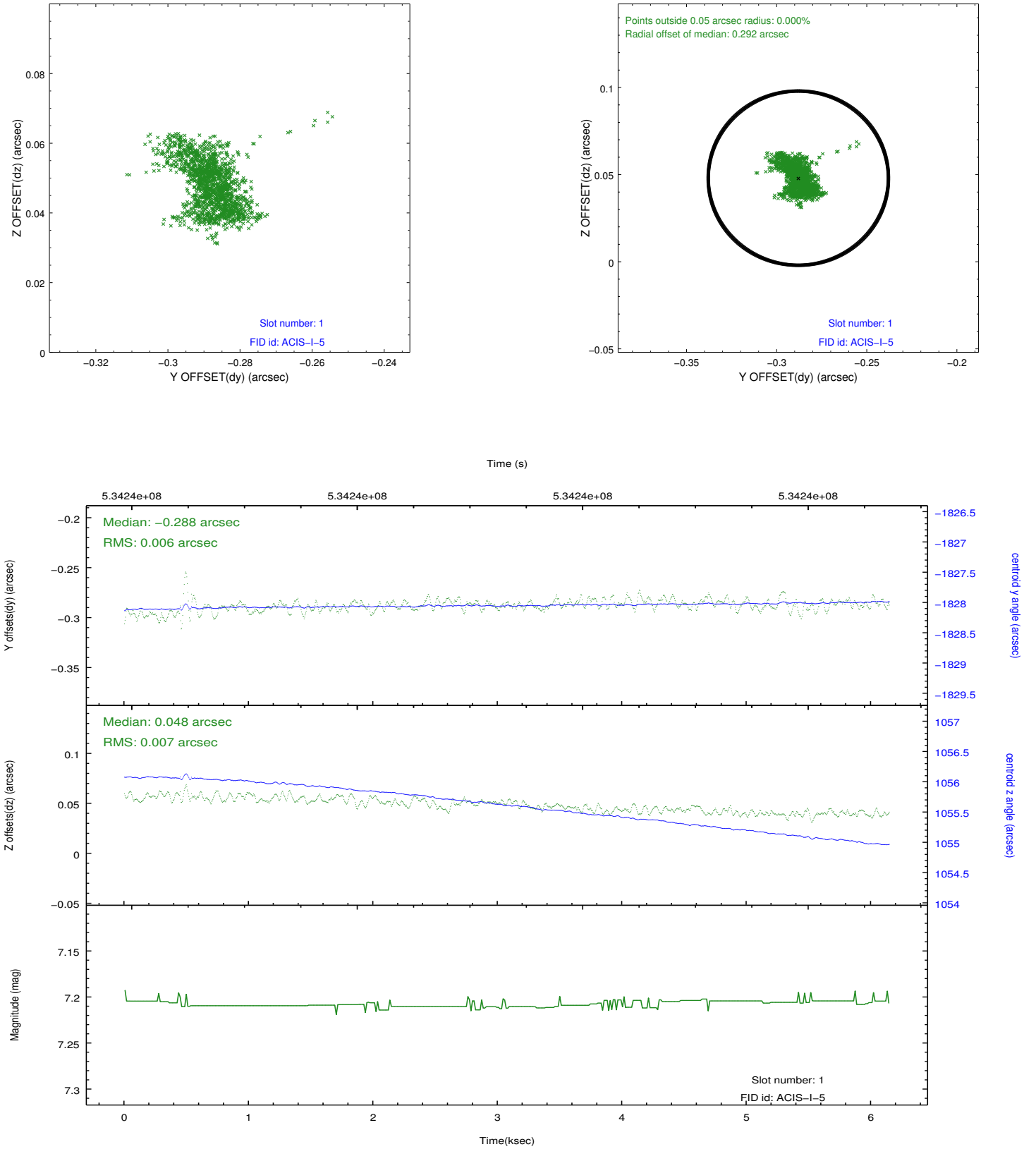


2.5 FID Slots

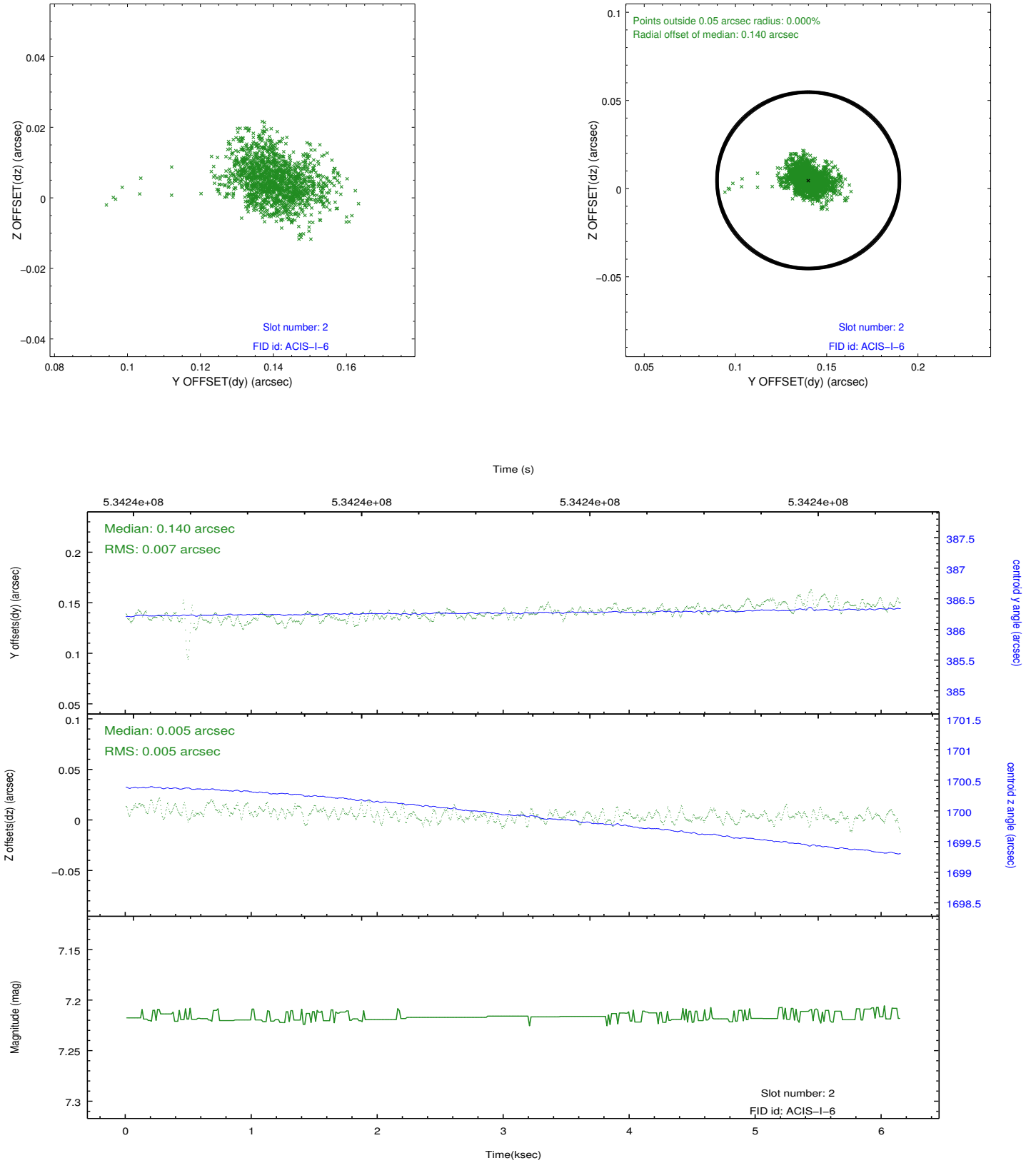
2.5.1 Slot 0



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)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1256000471115

A.2 Comments