

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 17001 - L2 Version 1
Chandra X-Ray Center

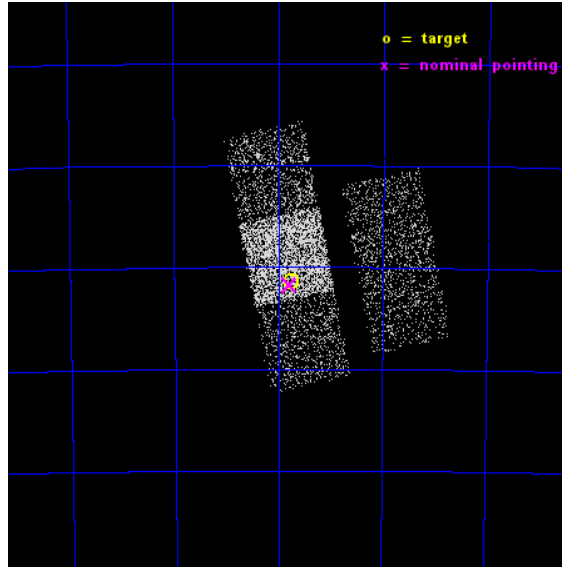
L2 Processing Date : Dec 26 2014

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1 Front

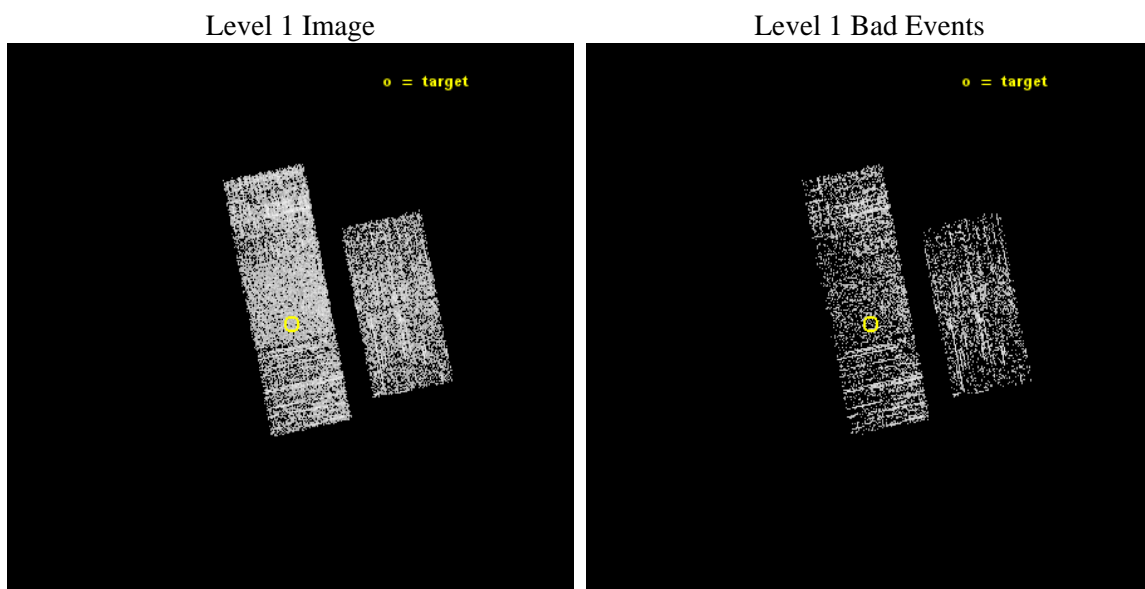
seq_num	601194	Sequence number
obs_id	17001	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	IC5256	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	342.440833	Observer's specified target RA [deg]
dec_targ	-68.690694	Observer's specified target Dec [deg]
ra_nom	342.44785214916	Nominal RA [deg]
dec_nom	-68.695479663217	Nominal Dec [deg]
roll_nom	258.52130071866	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1667.8000128269	Sum of GTIs [s]
livetime	1646.0089778428	Livetime [s]
ontime2	1667.8000128269	Sum of GTIs [s]
ontime3	1667.8000128269	Sum of GTIs [s]
ontime6	1667.8000128269	Sum of GTIs [s]
ontime7	1667.8000128269	Sum of GTIs [s]
ontime8	1667.8000128269	Sum of GTIs [s]
l2events	7847	Number of level 2 events



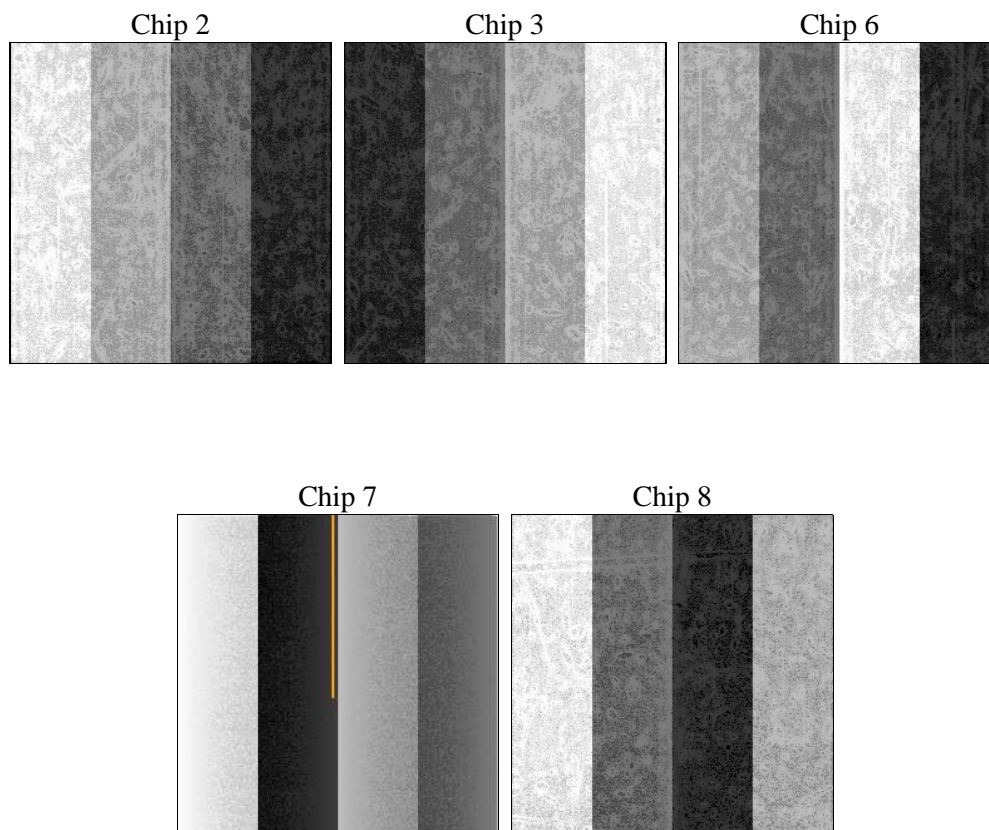
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	1600.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1667.8000128269	Sum of GTIs [s]
caldsver	4.6.5	 	ontime2	1667.8000128269	Sum of GTIs [s]
date	2014-12-26T18:05:16	Date and time of file creation	ontime3	1667.8000128269	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	1667.8000128269	Sum of GTIs [s]
			ontime7	1667.8000128269	Sum of GTIs [s]
			ontime8	1667.8000128269	Sum of GTIs [s]
			l1events	44012	Number of level 1 events

2.1.4 Events

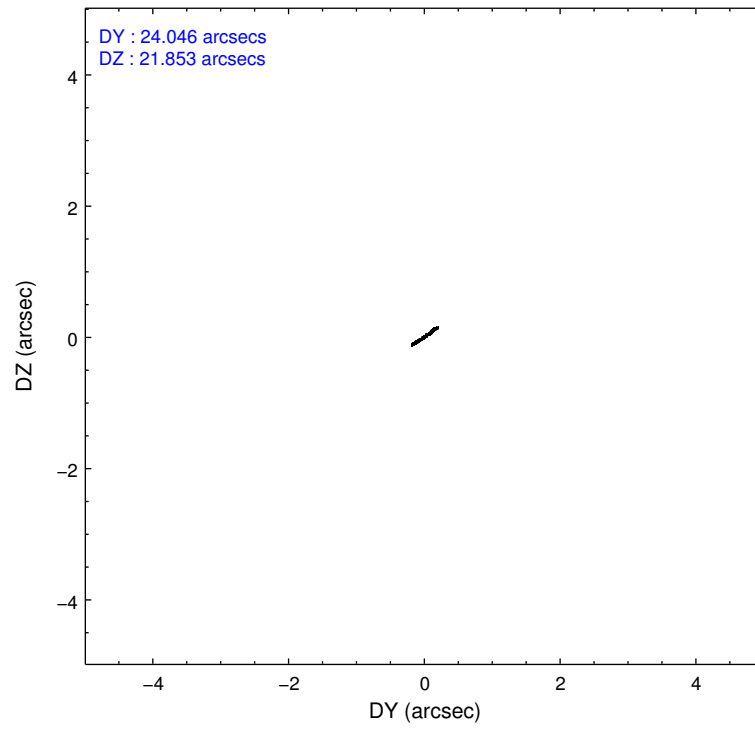
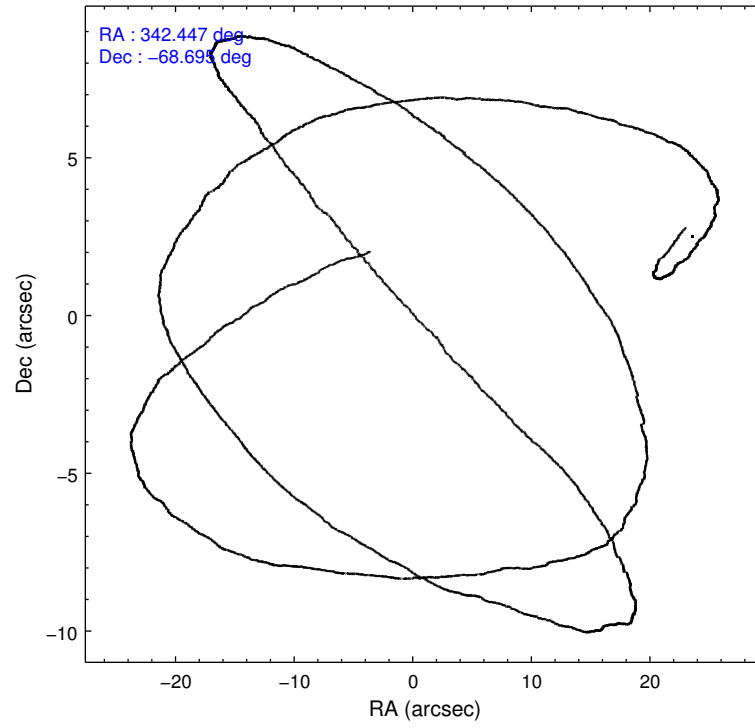
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6946	7086	8342	10385	11253
rejected events	6104	6199	7366	5901	8047
rejected %	87%	87%	88%	56%	71%

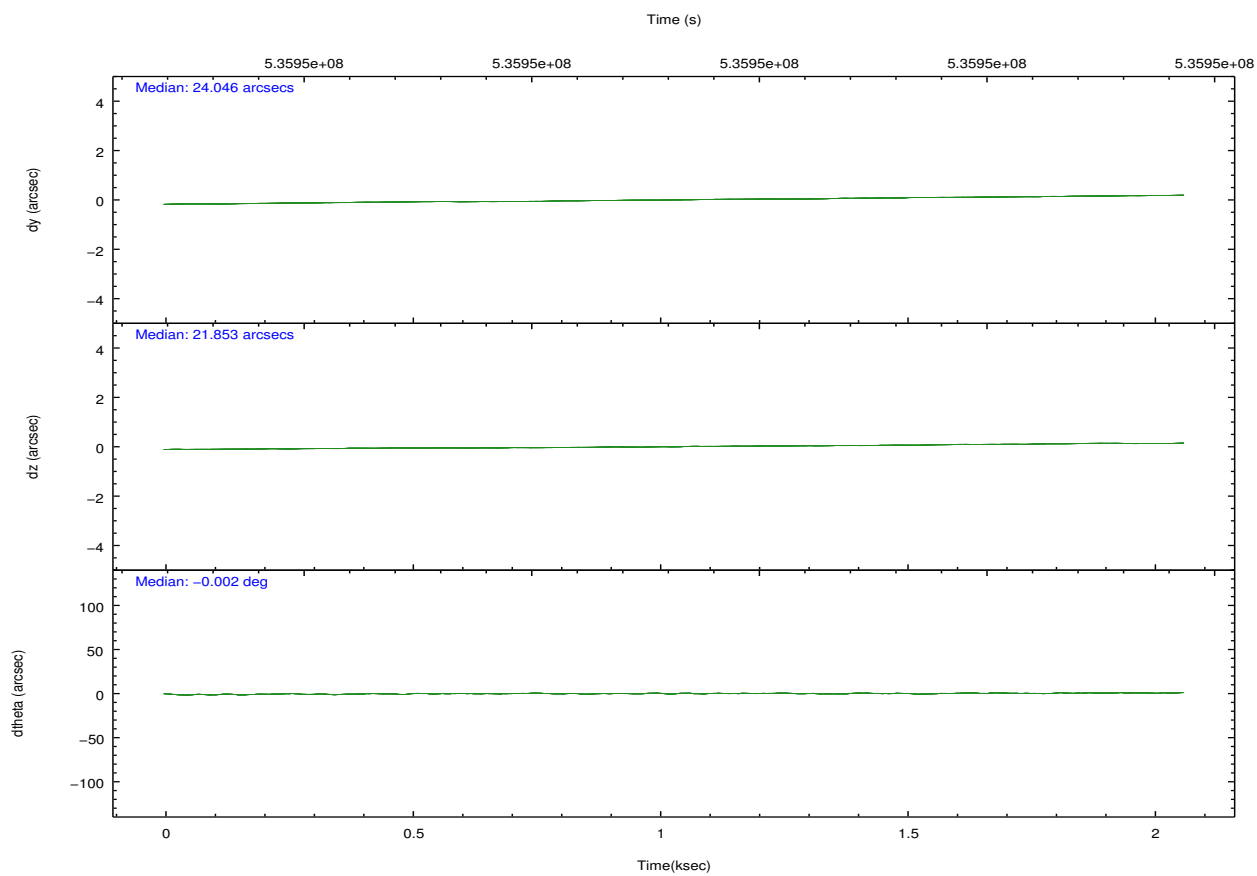
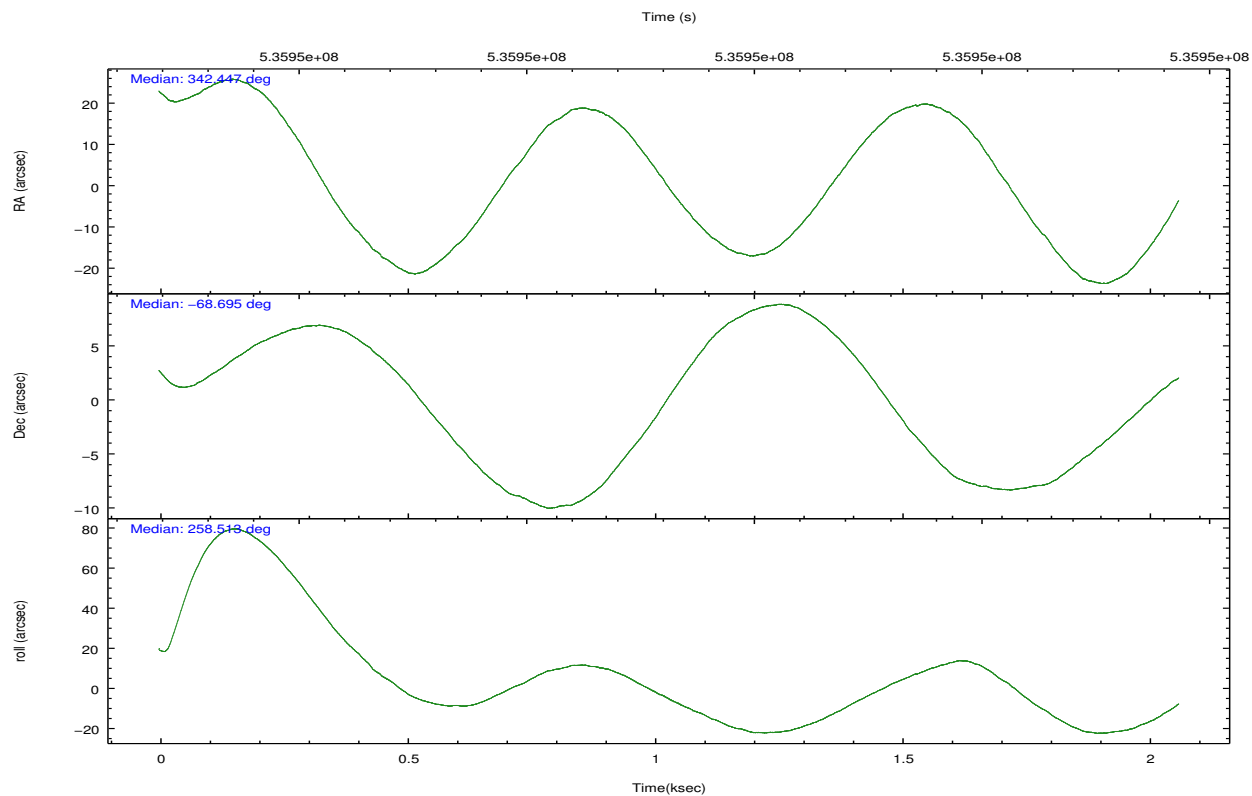
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	309	346	347	413	911
	4%	4%	4%	3%	8%
grade 1 events	8	3	12	16	12
	0%	0%	0%	0%	0%
grade 2 events	217	184	229	958	791
	3%	2%	2%	9%	7%
grade 3 events	83	107	110	391	308
	1%	1%	1%	3%	2%
grade 4 events	85	80	70	350	294
	1%	1%	0%	3%	2%
grade 5 events	317	427	387	1056	591
	4%	6%	4%	10%	5%
grade 6 events	154	174	223	2389	907
	2%	2%	2%	23%	8%
grade 7 events	5773	5765	6964	4812	7439
	83%	81%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	342.422832	342.4478521491632	CCD I2 on	O2	Y
[deg] Pointing Dec	-68.669619	-68.69547966321659	CCD I3 on	O1	Y
[deg] Pointing Roll	258.341719	258.5213007186622	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	535952745.184000	535951668.49876	CCD S5 on	N	N
Observation start date	2014-12-26T03:44:38	2014-12-26T03:27:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	535954345.184000	535955673.17398	On-chip summing requested	N	N
Observation end date	2014-12-26T04:11:18	2014-12-26T04:34:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



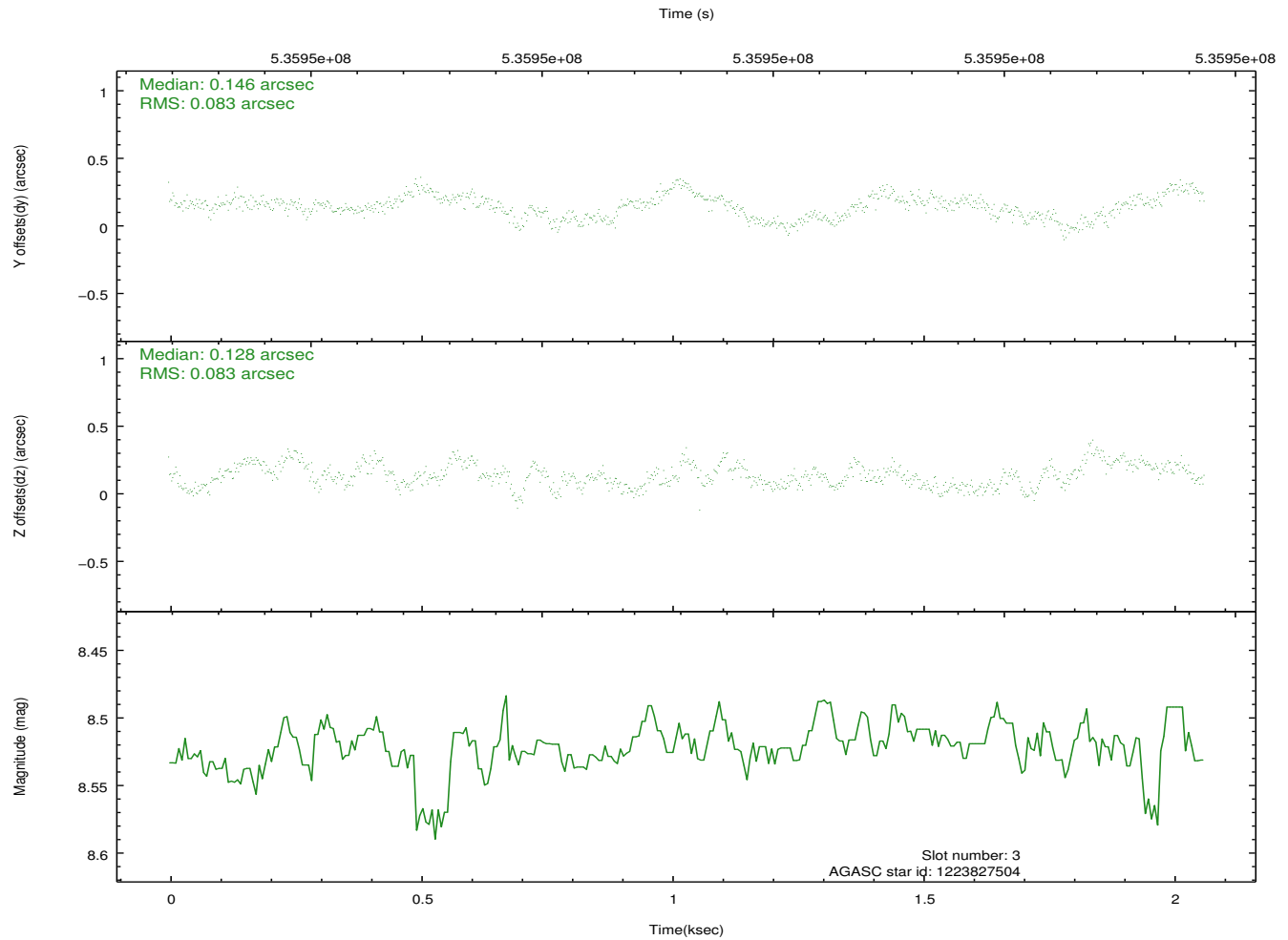
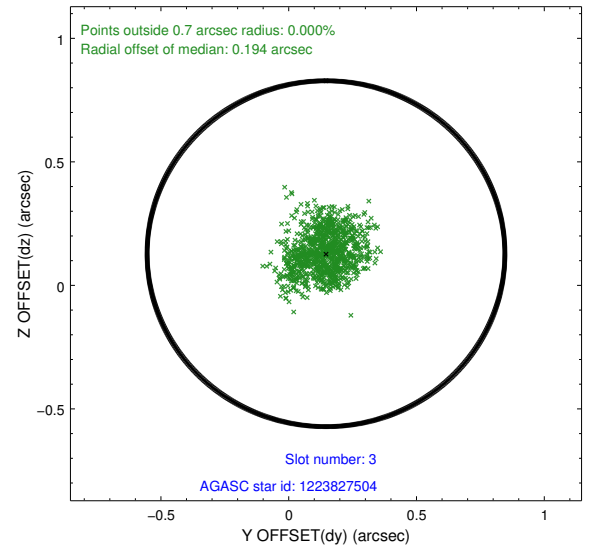
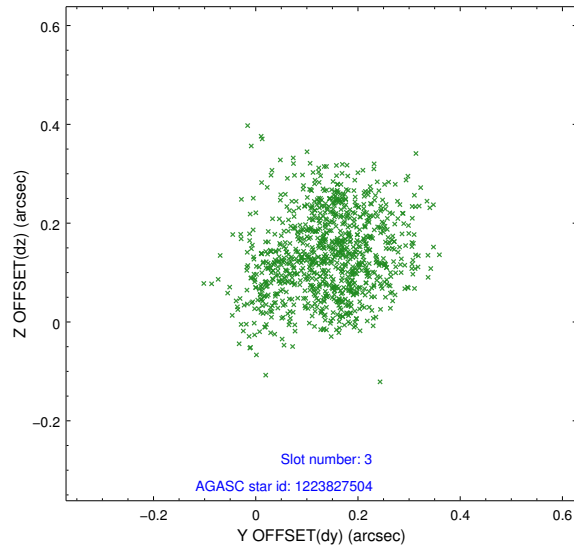


Slot Statistics

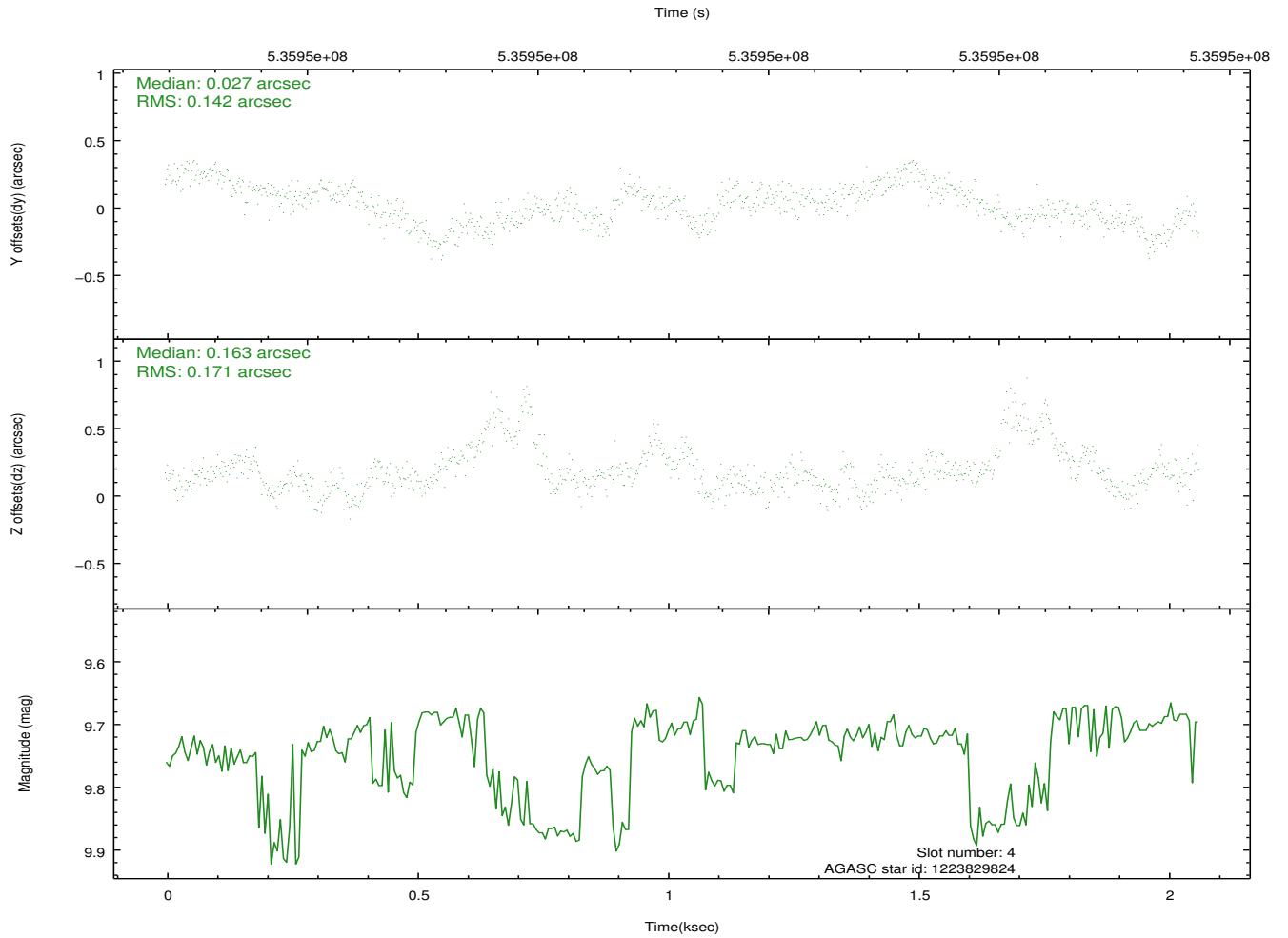
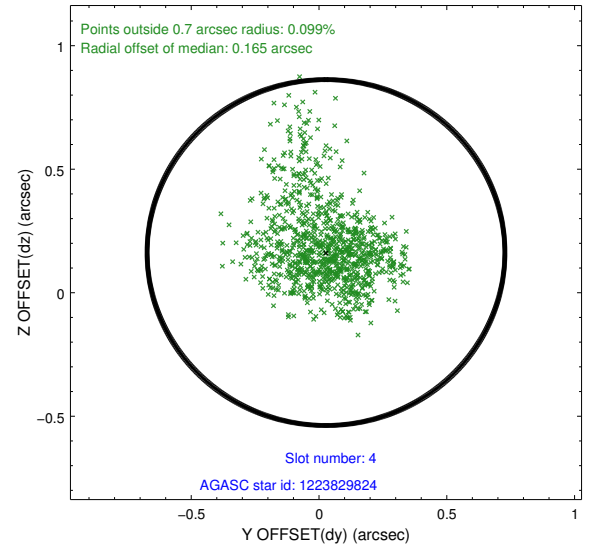
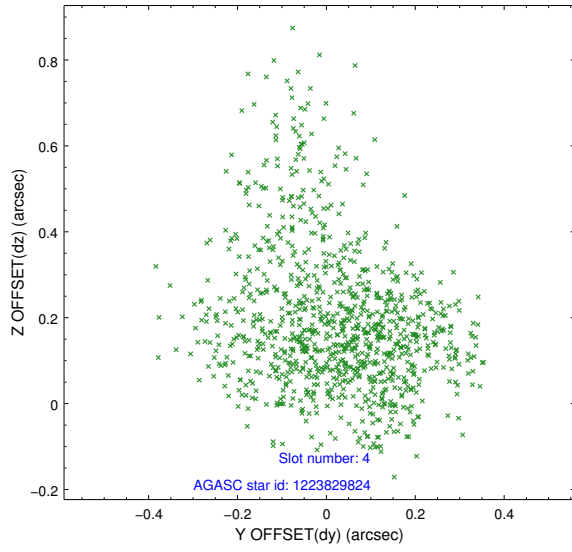
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	503	-0.123	-0.046	0.008	0.014	0.000000	0.000000	-777.45	-1743.39
1	FID		ACIS-S-4	7.03	503	0.301	0.072	0.006	0.010	0.000000	0.000000	2134.84	161.81
2	FID		ACIS-S-5	7.05	503	-0.209	-0.017	0.007	0.011	0.000000	0.000000	-1826.27	159.13
3	GUIDE	used	1223827504	8.52	1007	0.146	0.128	0.126	0.197	341.436366	-68.253905	-1189.20	-1588.43
4	GUIDE	used	1223829824	9.73	1007	0.027	0.163	0.223	0.414	343.501243	-68.632574	-405.23	1359.65
5	GUIDE	used	1223831496	10.03	1005	0.034	-0.023	0.310	0.501	340.337420	-68.994971	1736.08	-2387.04
6	GUIDE	used	1223960304	8.25	1007	-0.104	-0.414	0.111	0.174	344.110524	-68.783758	-10.62	2239.42
7	GUIDE	used	1223955224	9.86	1006	-0.062	0.111	0.186	0.304	344.058685	-68.121817	-2346.22	1758.77

2.4 Star Slots

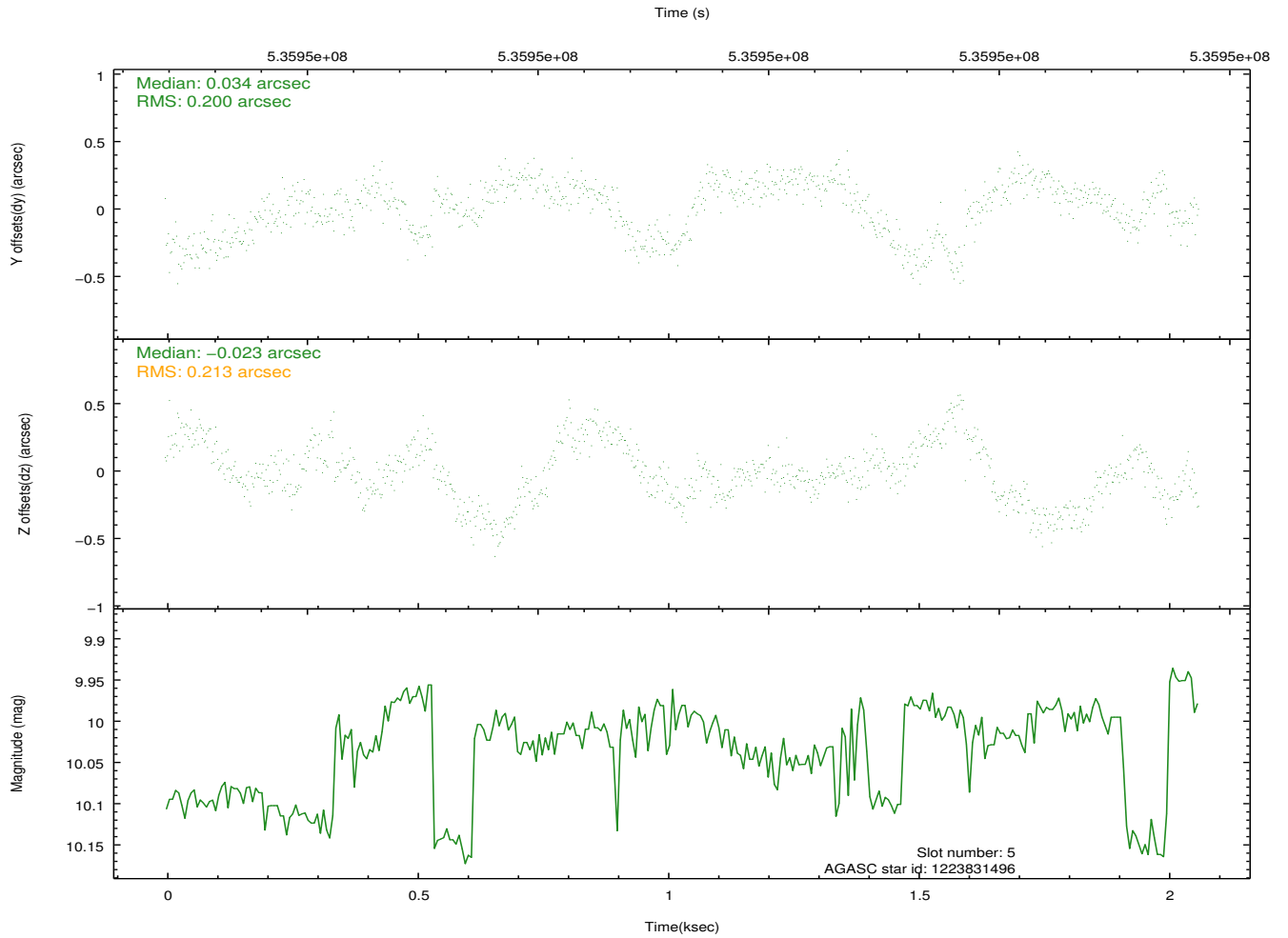
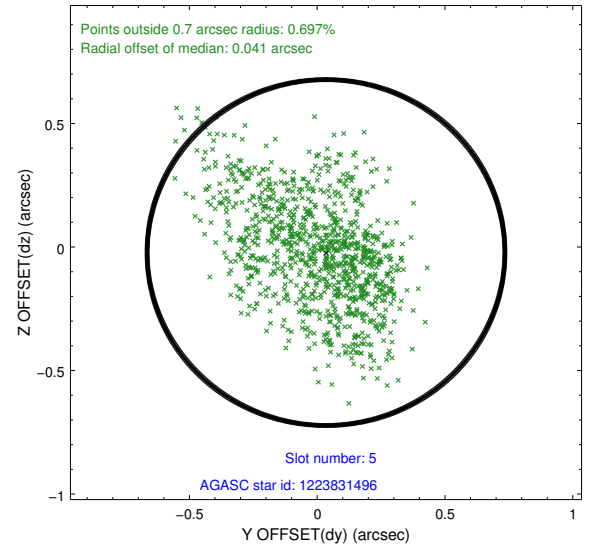
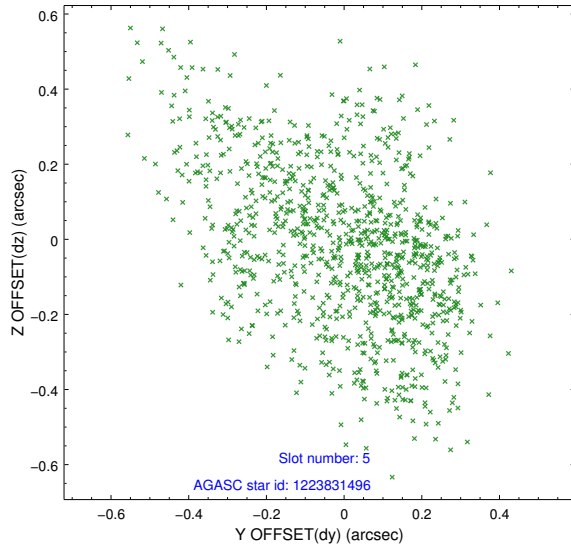
2.4.1 Slot 3



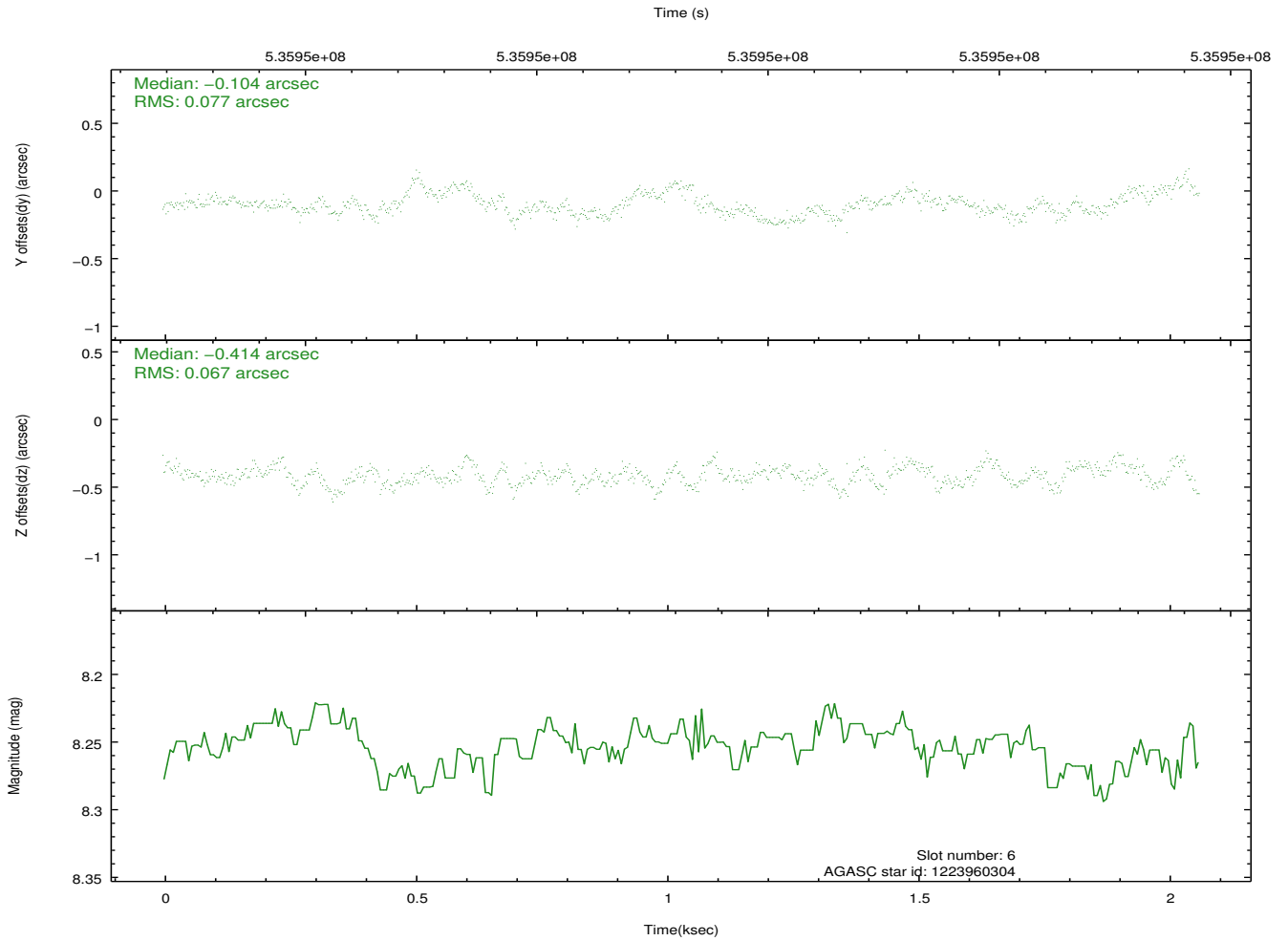
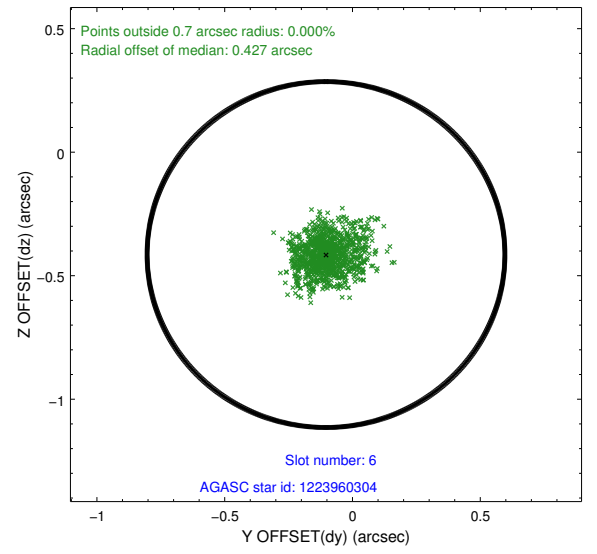
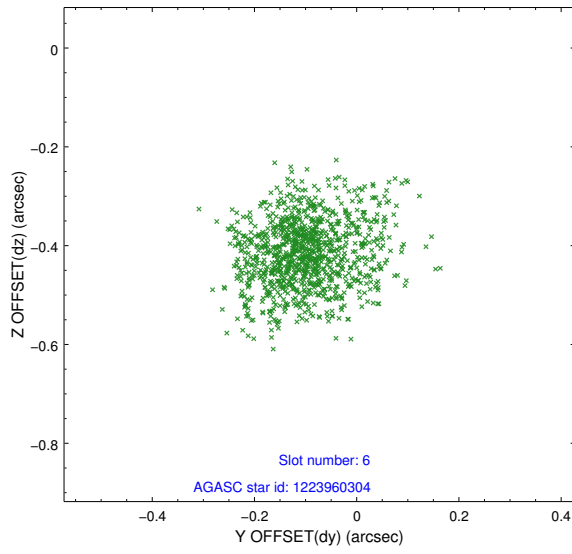
2.4.2 Slot 4



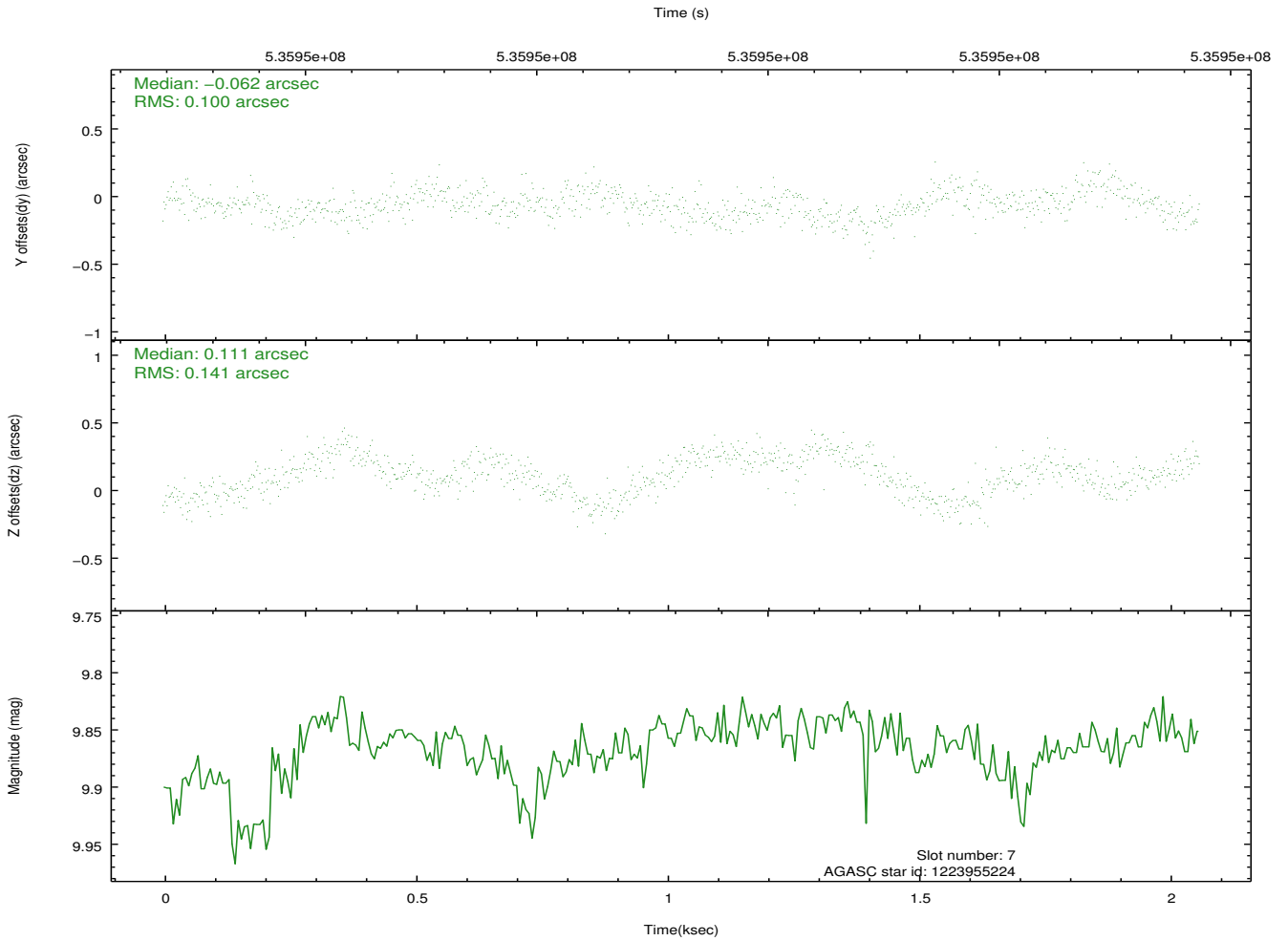
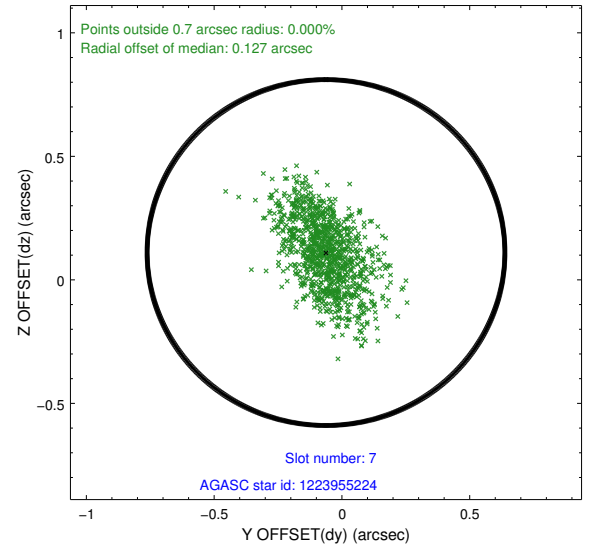
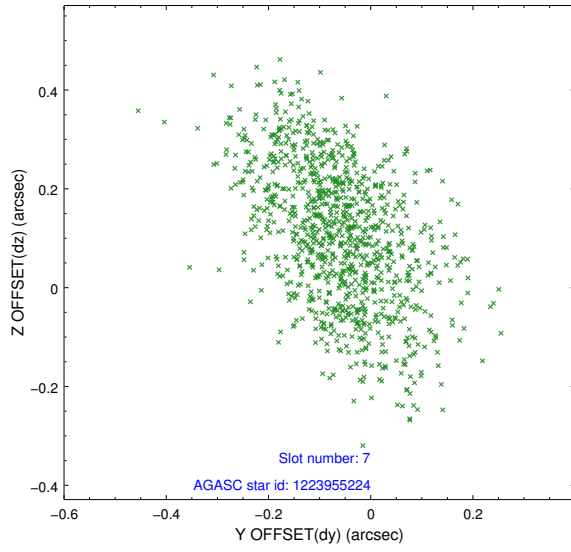
2.4.3 Slot 5



2.4.4 Slot 6

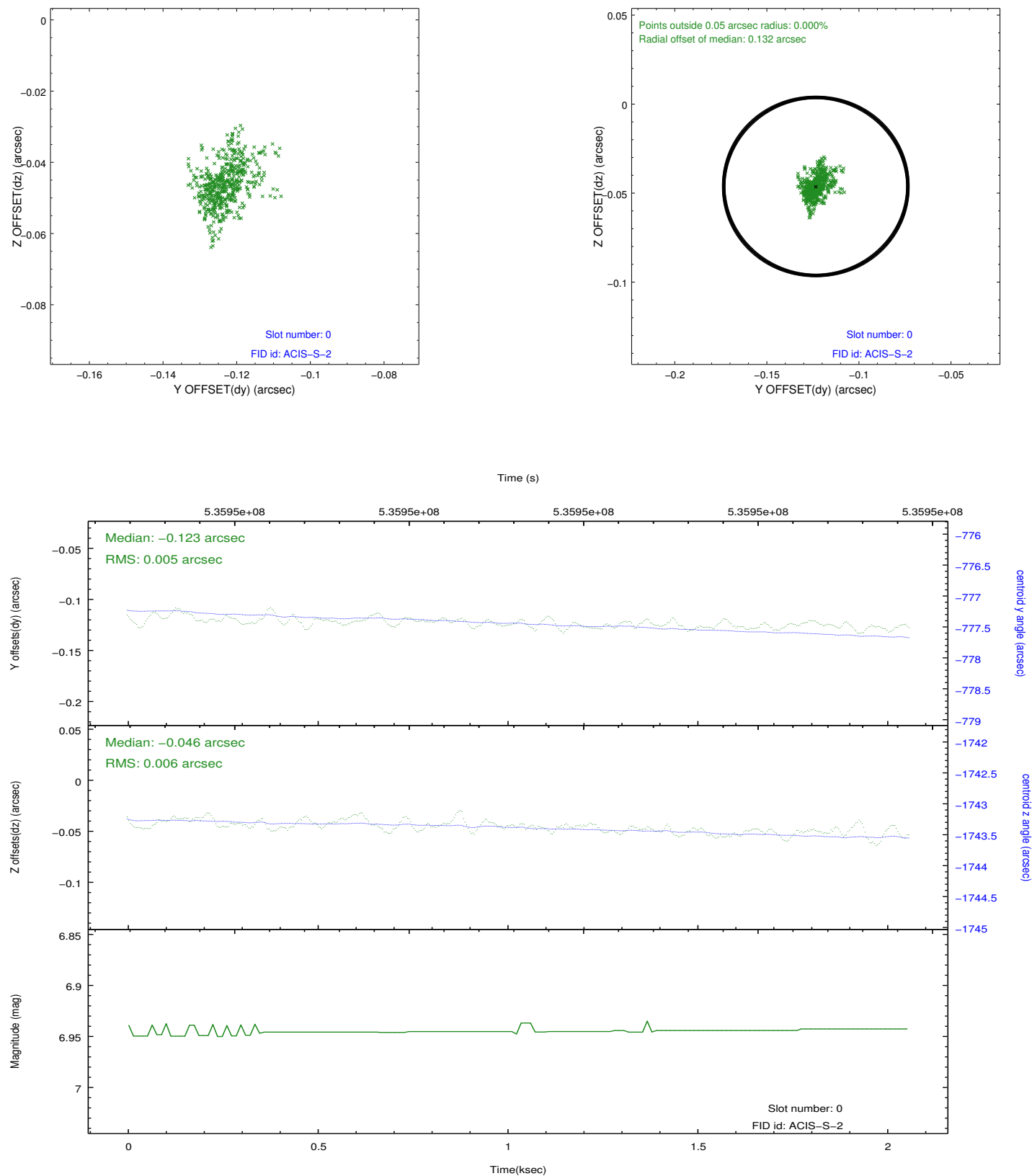


2.4.5 Slot 7

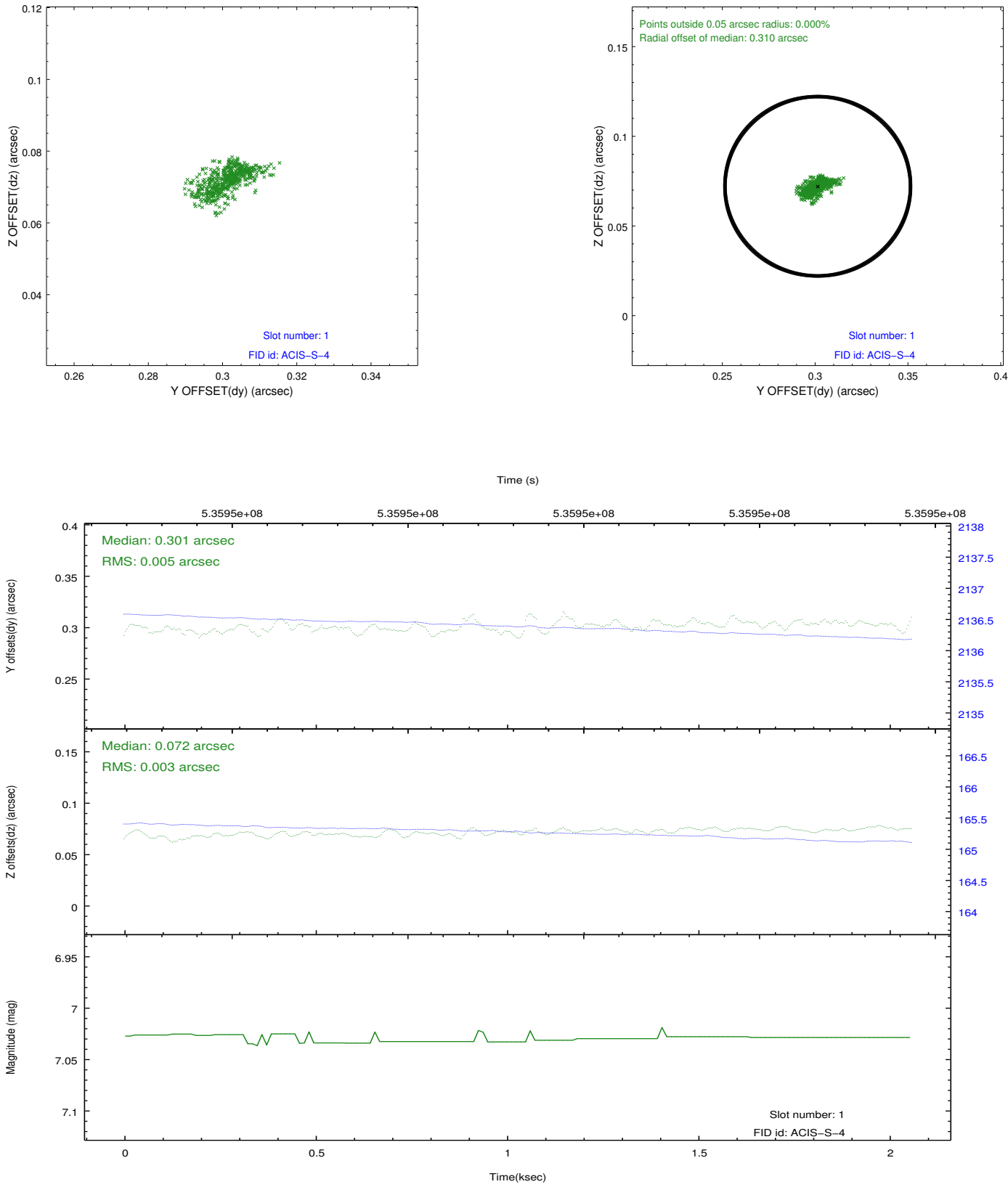


2.5 FID Slots

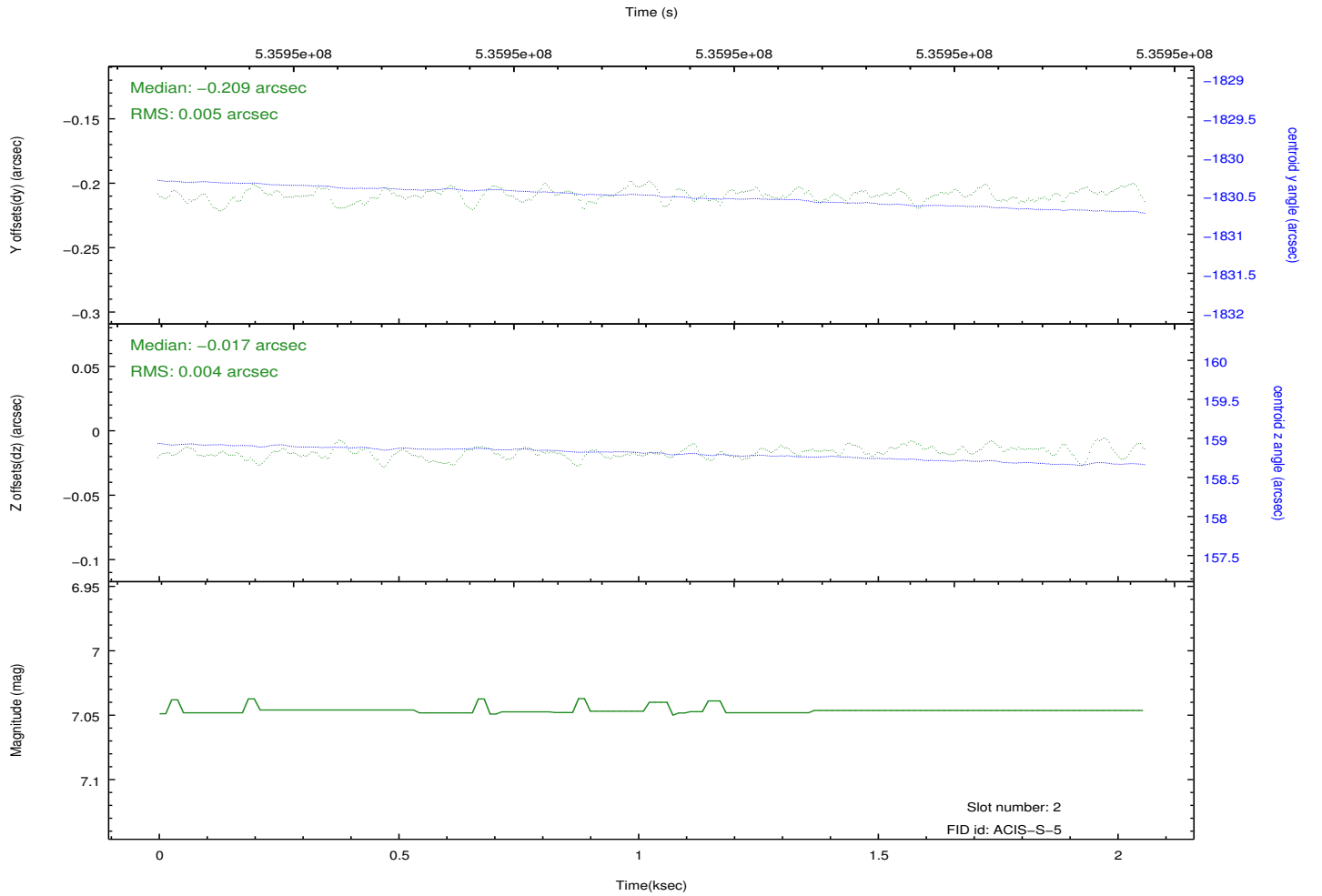
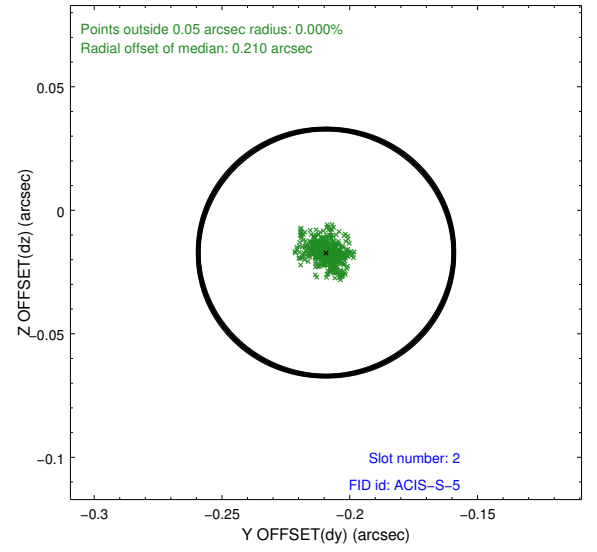
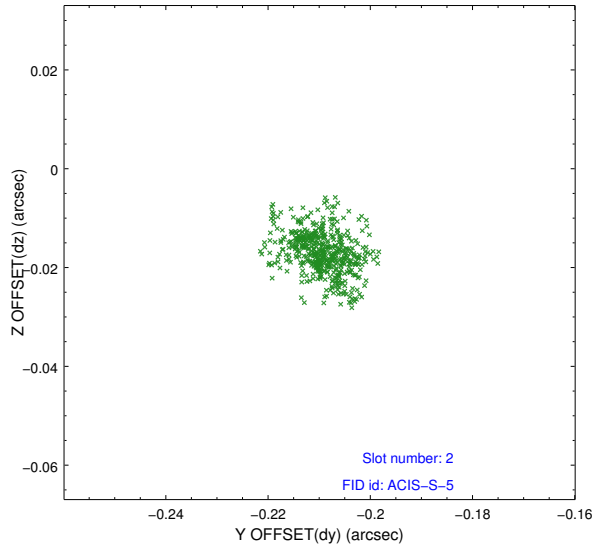
2.5.1 Slot 0



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)	2014.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.6678000128269

A.2 Comments