

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16050 - L2 Version 2
Chandra X-Ray Center

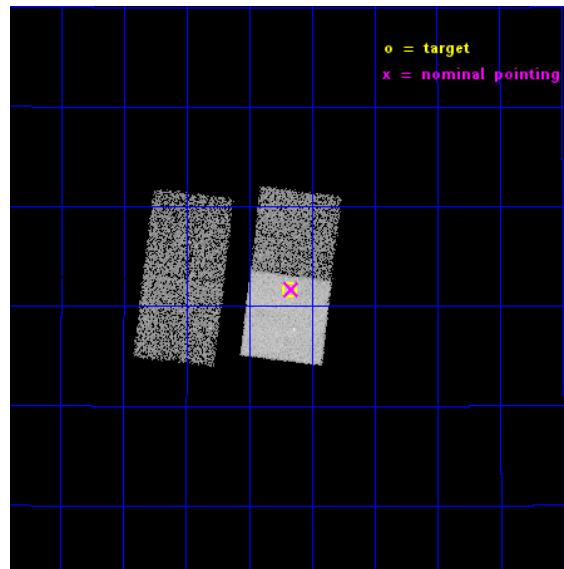
L2 Processing Date : Dec 11 2014

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

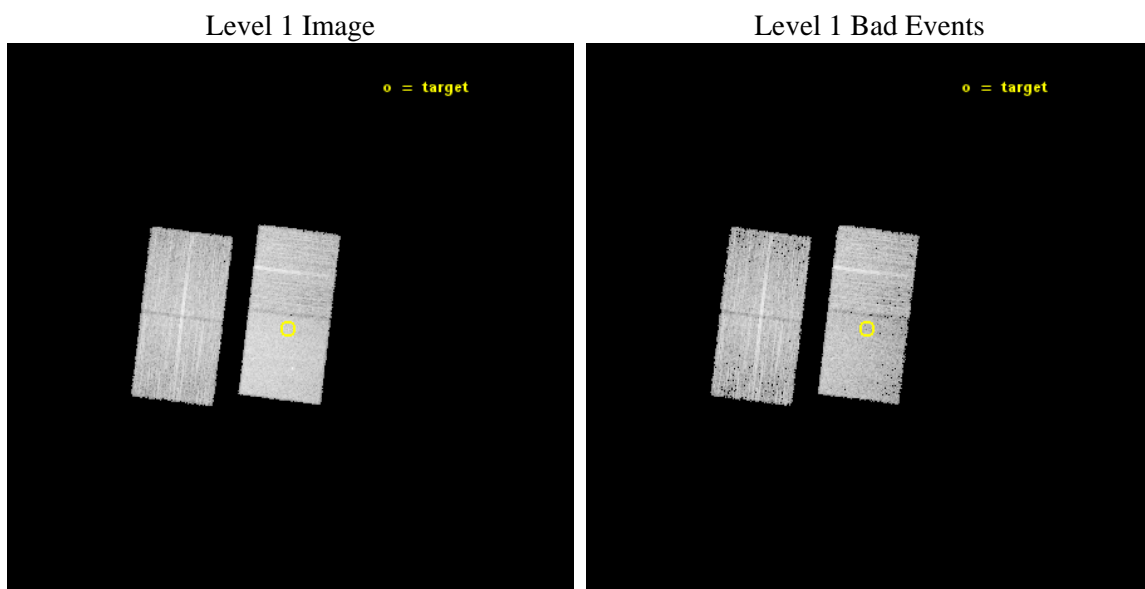
seq_num	702944	Sequence number
obs_id	16050	Observation id
title	Continuing the Chandra 3CR Snapshot Survey: 23 Radio Sources with 0.5	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3C55	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.29375	Observer's specified target RA [deg]
dec_targ	28.860417	Observer's specified target Dec [deg]
ra_nom	29.290661404312	Nominal RA [deg]
dec_nom	28.861691192471	Nominal Dec [deg]
roll_nom	97.036219900527	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12077.600092888	Sum of GTIs [s]
livetime	11919.797356274	Livetime [s]
ontime2	12077.600092888	Sum of GTIs [s]
ontime3	12077.600092888	Sum of GTIs [s]
ontime6	12077.600092888	Sum of GTIs [s]
ontime7	12077.600092888	Sum of GTIs [s]
l2events	51711	Number of level 2 events



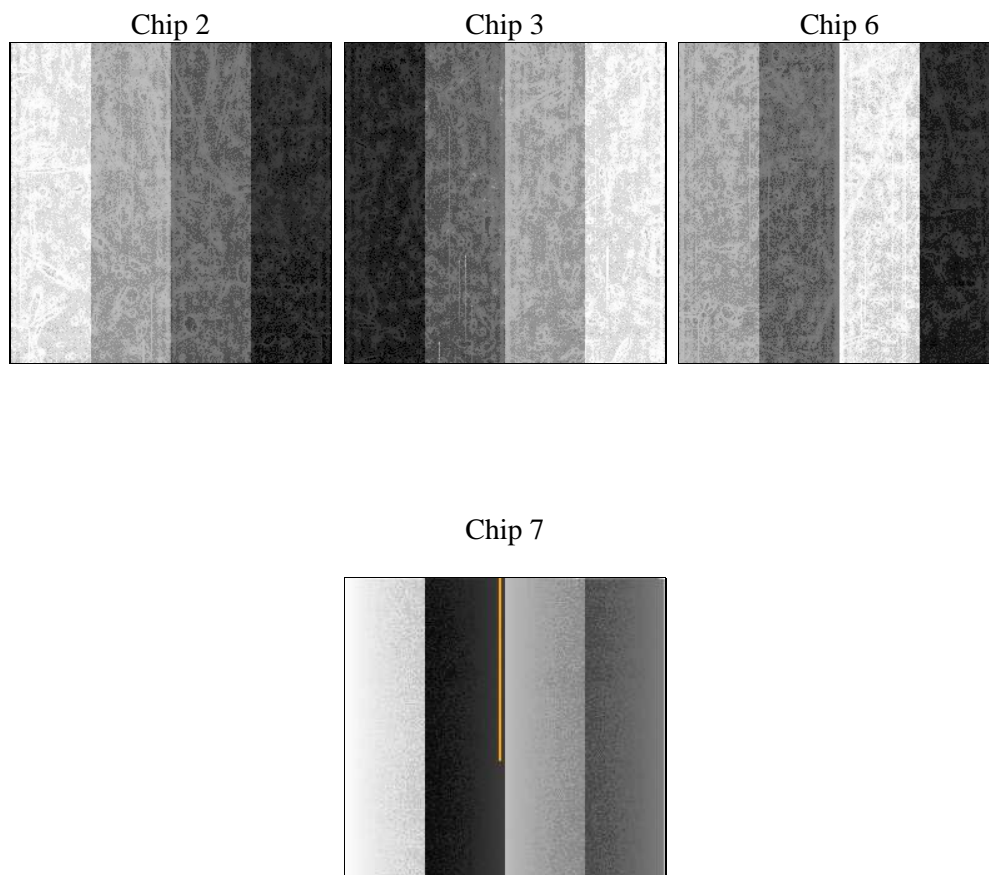
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	12077.600092888	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	12077.600092888	Sum of GTIs [s]
date	2014-12-12T02:44:36	Date and time of file creation	ontime3	12077.600092888	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12077.600092888	Sum of GTIs [s]
			ontime7	12077.600092888	Sum of GTIs [s]
			l1events	248300	Number of level 1 events

2.1.4 Events

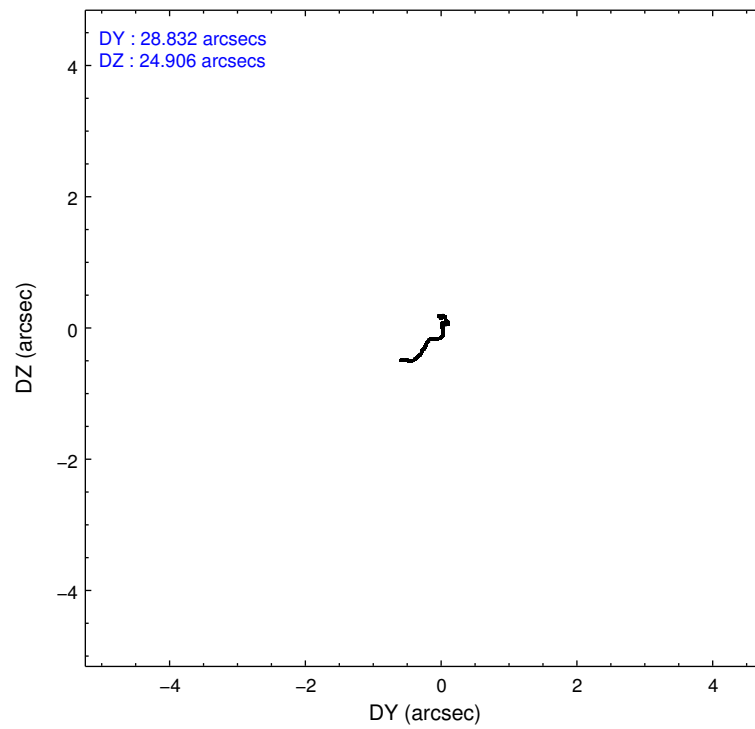
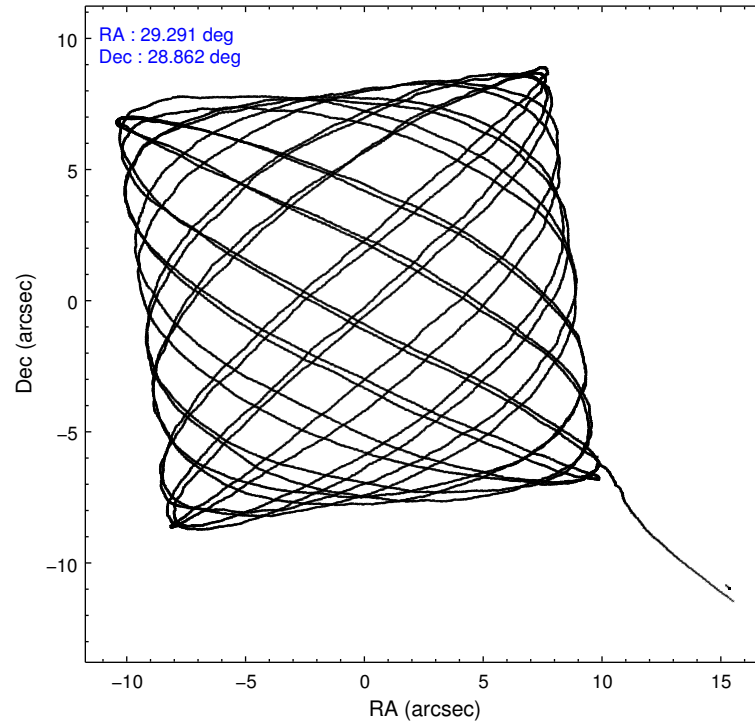
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	53741	54732	59761	80066
rejected events	47192	48189	52738	44943
rejected %	87%	88%	88%	56%

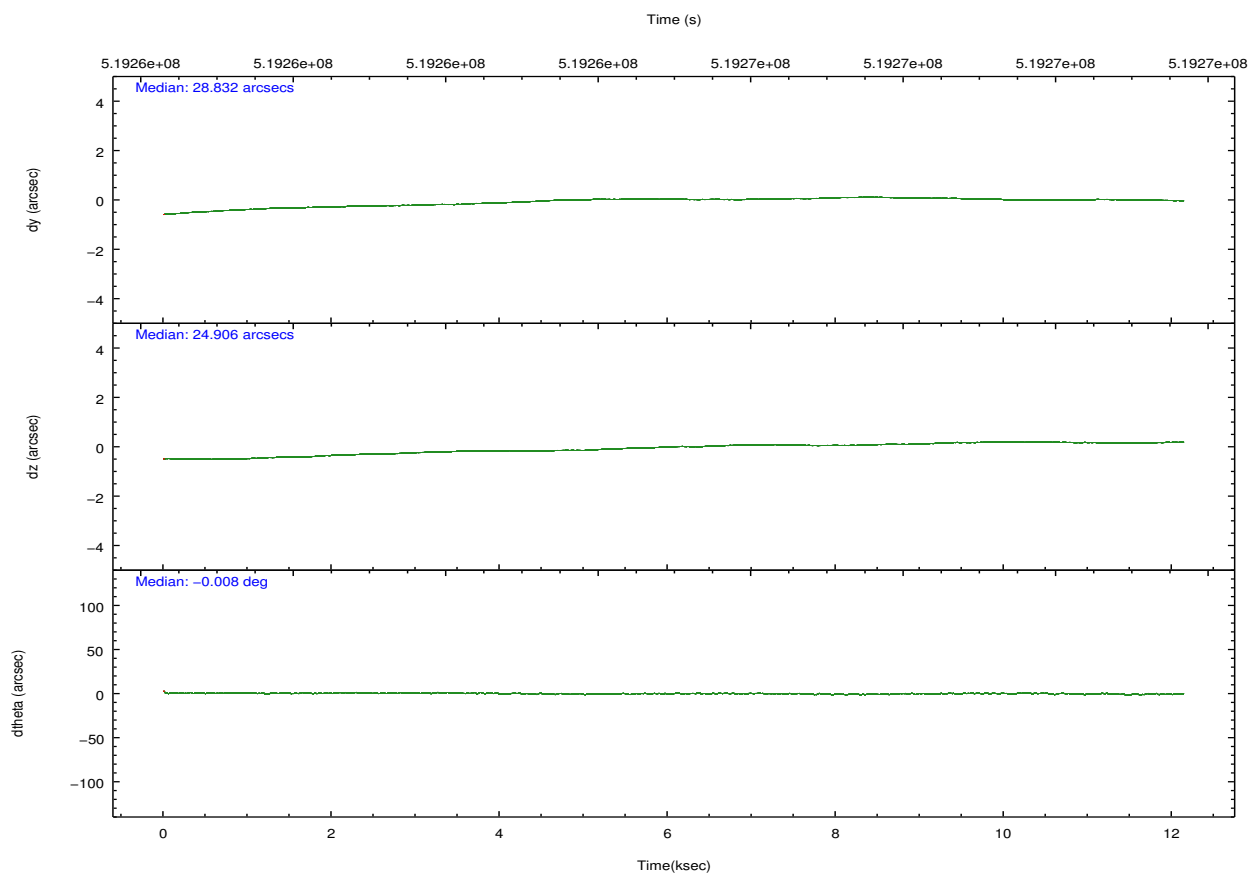
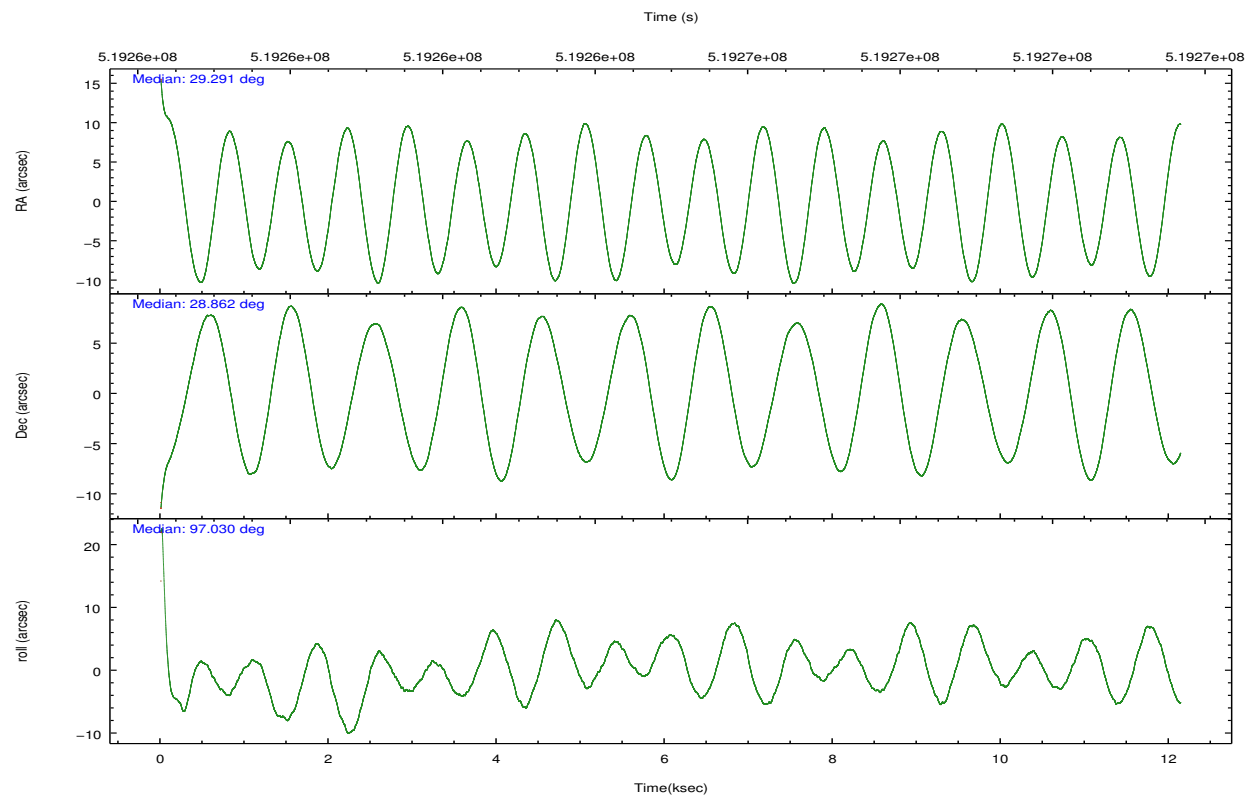
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2258	2476	2298	3175
	4%	4%	3%	3%
grade 1 events	38	28	33	85
	0%	0%	0%	0%
grade 2 events	1647	1430	1704	7144
	3%	2%	2%	8%
grade 3 events	696	643	716	3028
	1%	1%	1%	3%
grade 4 events	658	650	704	3044
	1%	1%	1%	3%
grade 5 events	2486	2982	3119	8552
	4%	5%	5%	10%
grade 6 events	1294	1349	1603	18750
	2%	2%	2%	23%
grade 7 events	44664	45174	49584	36288
	83%	82%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	29.309772	29.29066140431224	CCD I2 on	O1	Y
[deg] Pointing Dec	28.840122	28.86169119247063	CCD I3 on	O2	Y
[deg] Pointing Roll	96.870342	97.03621990052736	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	519259060.184000	519257986.62169	CCD S5 on	N	N
Observation start date	2014-06-15T22:36:33	2014-06-15T22:19:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	519271060.184000	519271930.20996	On-chip summing requested	N	N
Observation end date	2014-06-16T01:56:33	2014-06-16T02:12:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



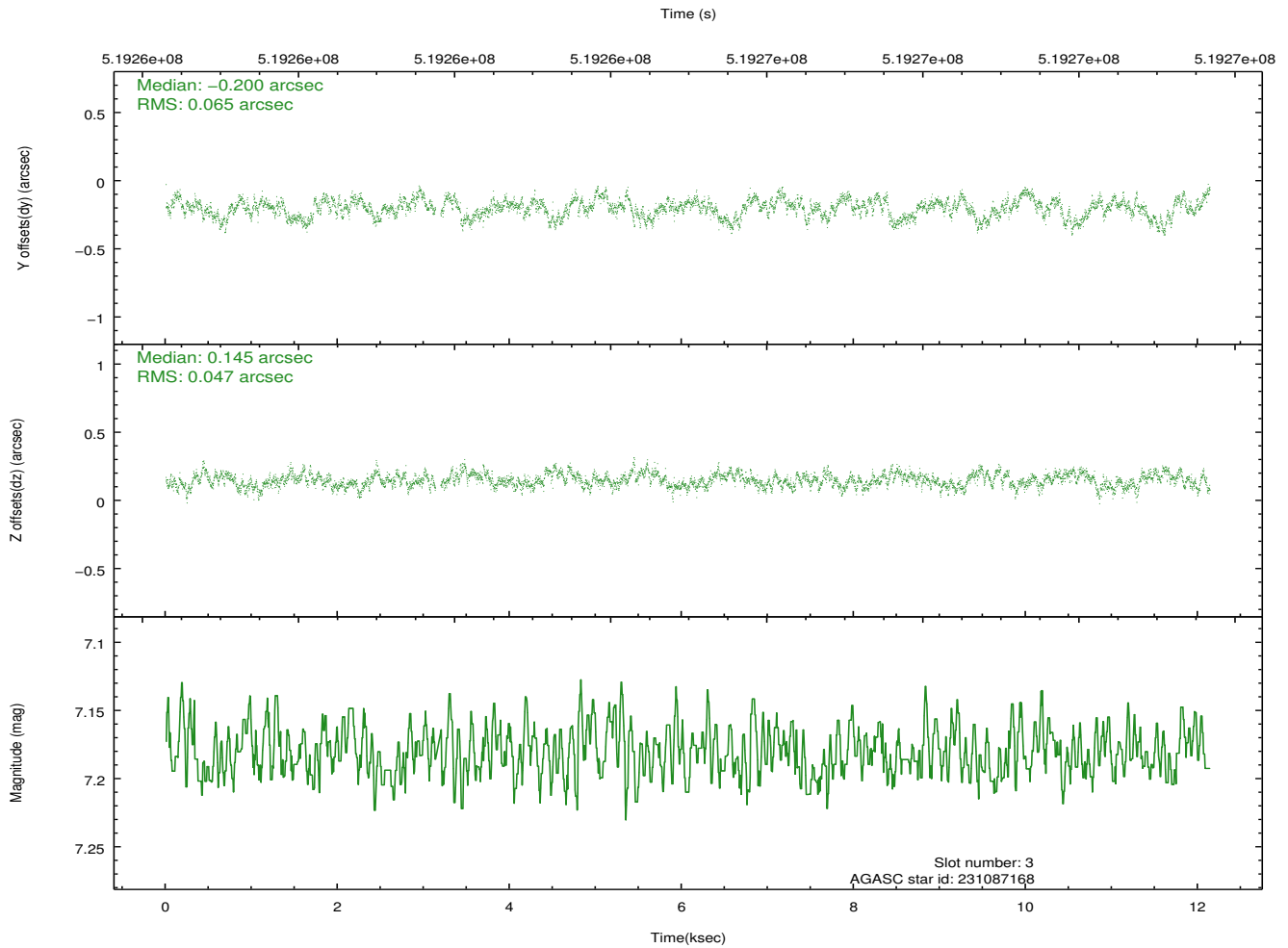
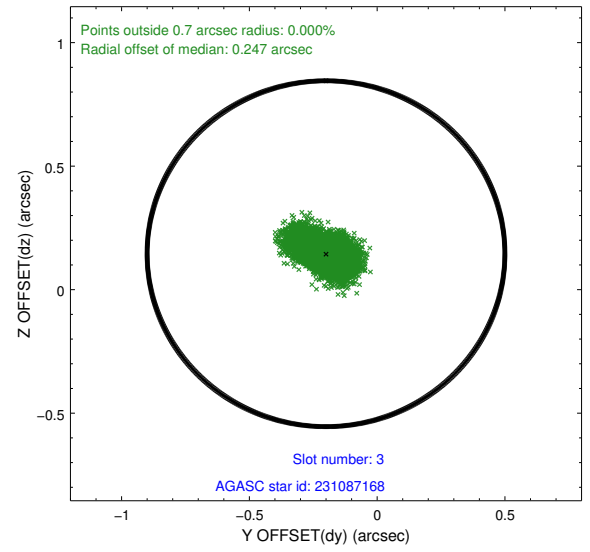
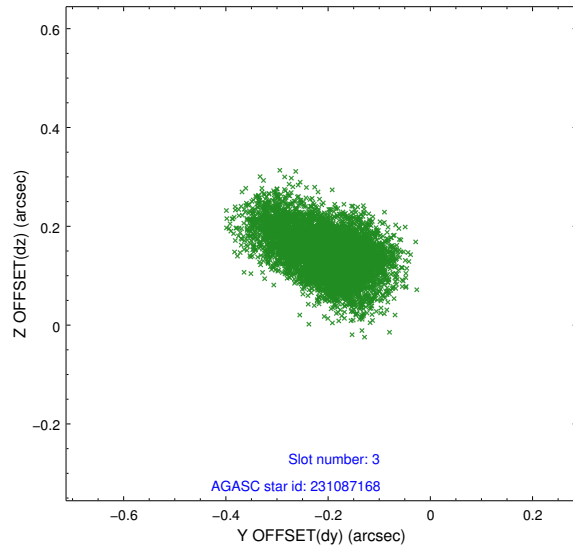


Slot Statistics

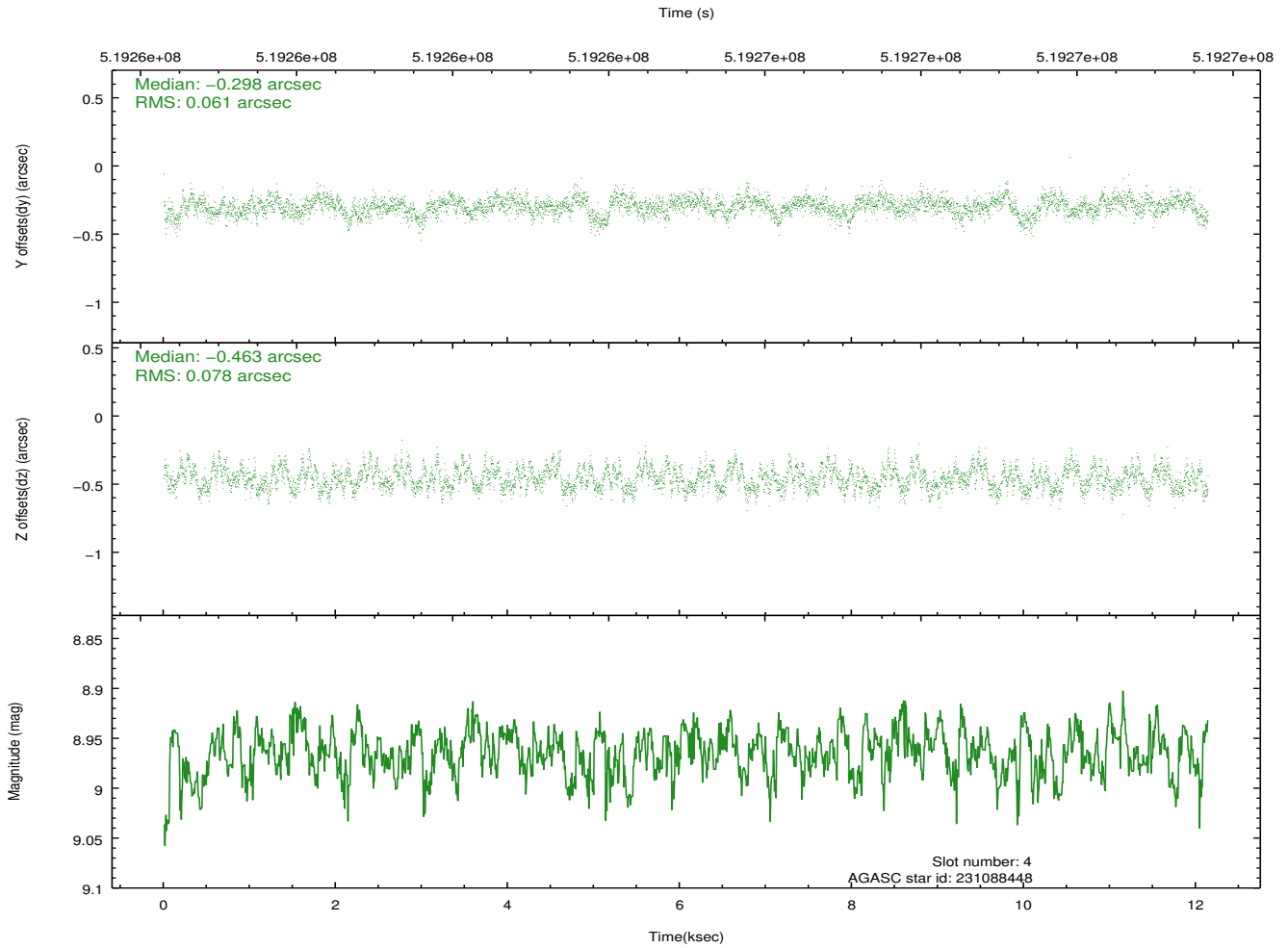
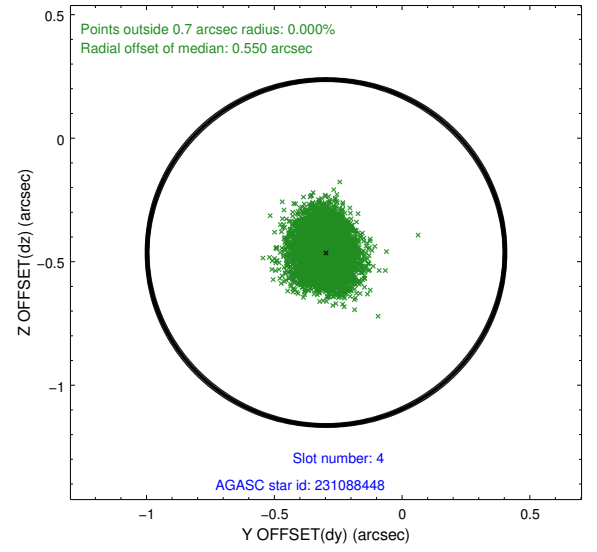
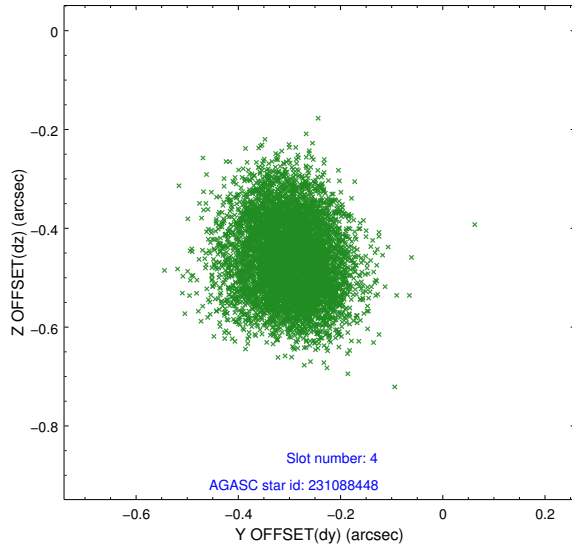
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.03	2961	-0.035	0.009	0.011	0.021	0.000000	0.000000	913.98	-1742.06
1	FID		ACIS-S-4	7.03	2961	0.314	0.016	0.011	0.019	0.000000	0.000000	2131.87	161.73
2	FID		ACIS-S-5	7.06	2961	-0.308	-0.012	0.008	0.016	0.000000	0.000000	-1834.72	155.59
3	GUIDE	used	231087168	7.18	5892	-0.200	0.145	0.085	0.144	29.674571	29.379925	1794.56	-1368.21
4	GUIDE	used	231088448	8.96	5918	-0.298	-0.463	0.107	0.168	28.689372	29.151995	1353.30	1801.65
5	GUIDE	used	231091040	9.13	5918	0.154	-0.192	0.130	0.205	28.915489	28.353113	-1588.86	1448.55
6	GUIDE	used	231095288	8.33	5921	0.253	0.242	0.077	0.126	29.723243	28.862613	-73.30	-1303.54
7	GUIDE	used	231098728	7.61	5914	0.086	0.267	0.107	0.167	29.504809	28.519940	-1217.45	-474.80

2.4 Star Slots

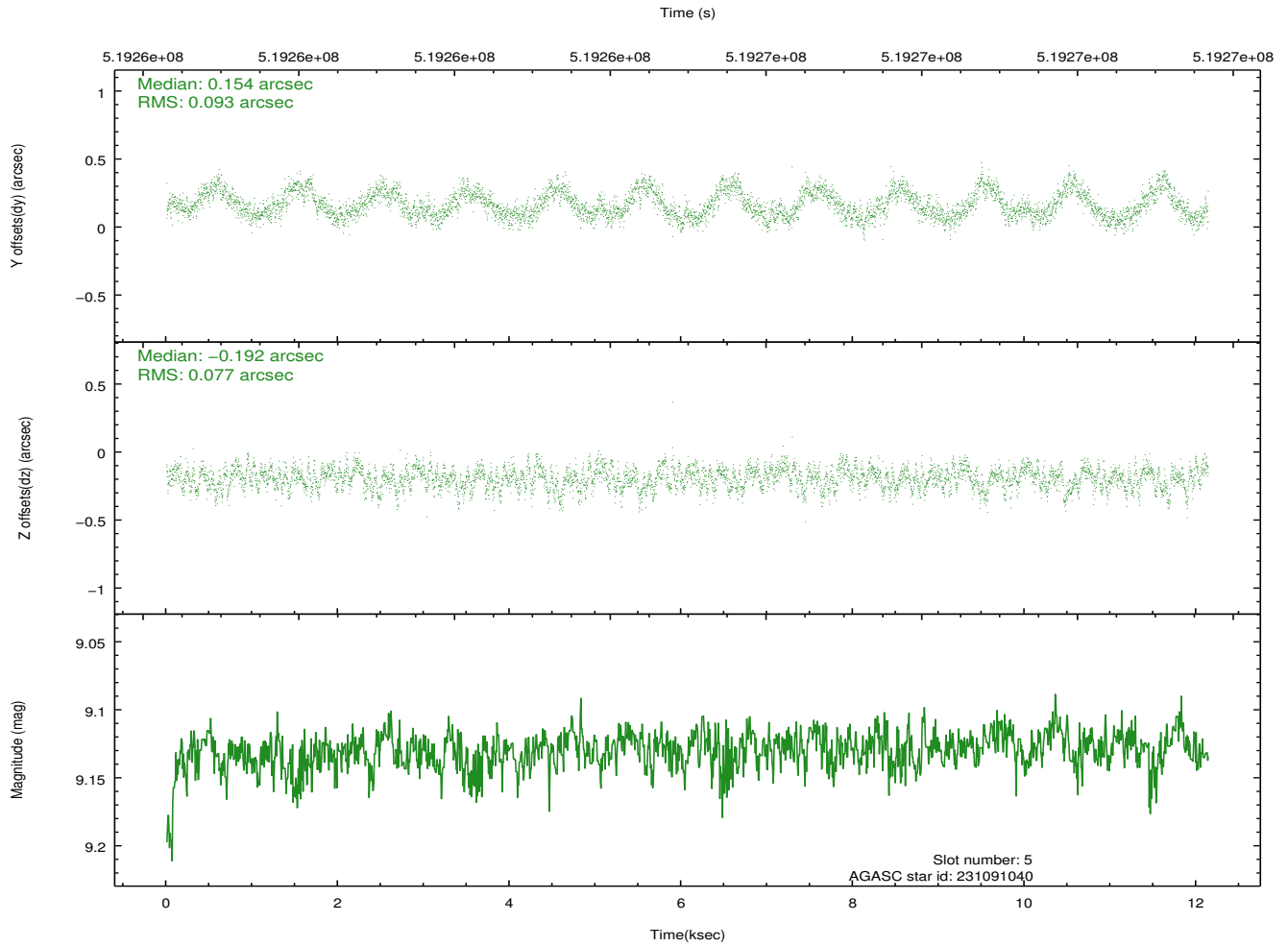
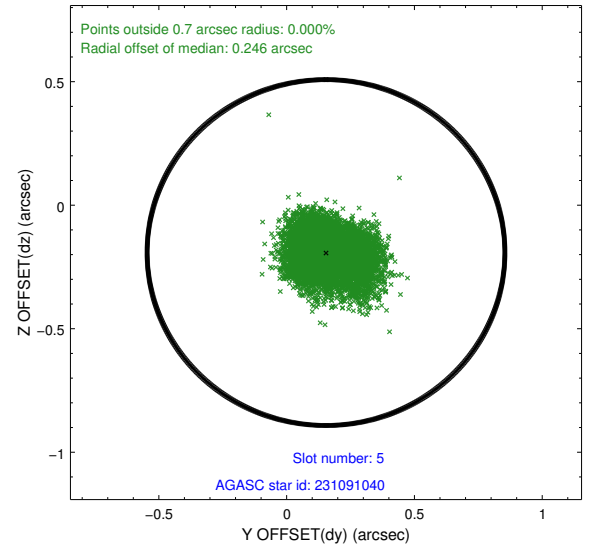
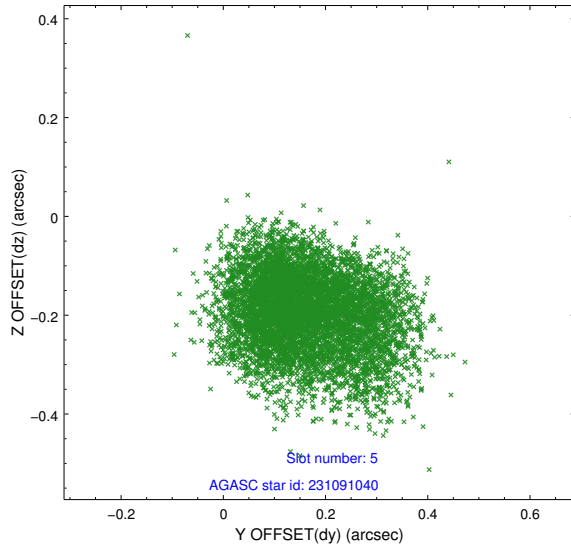
2.4.1 Slot 3



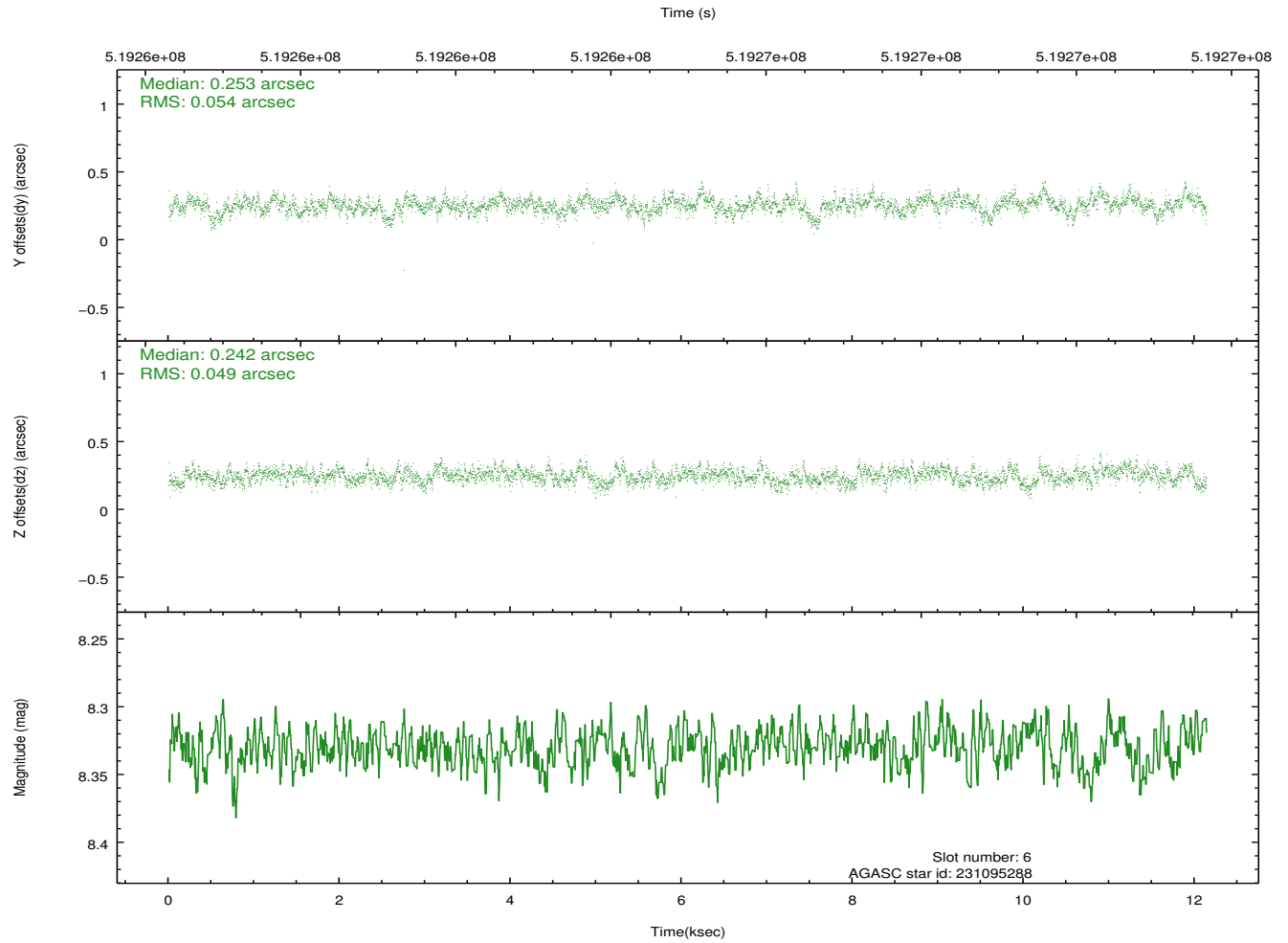
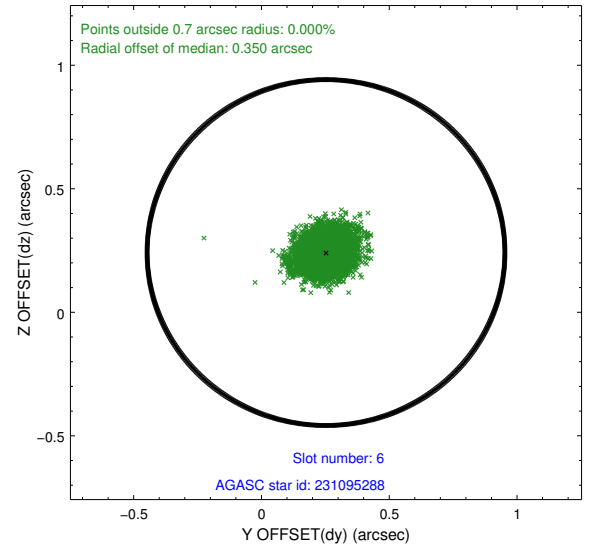
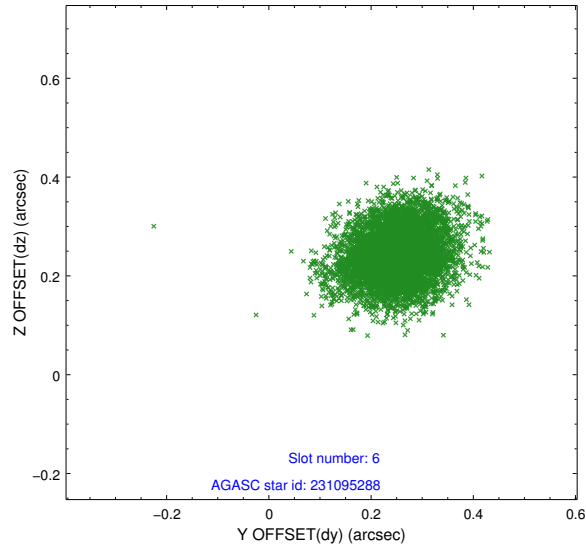
2.4.2 Slot 4



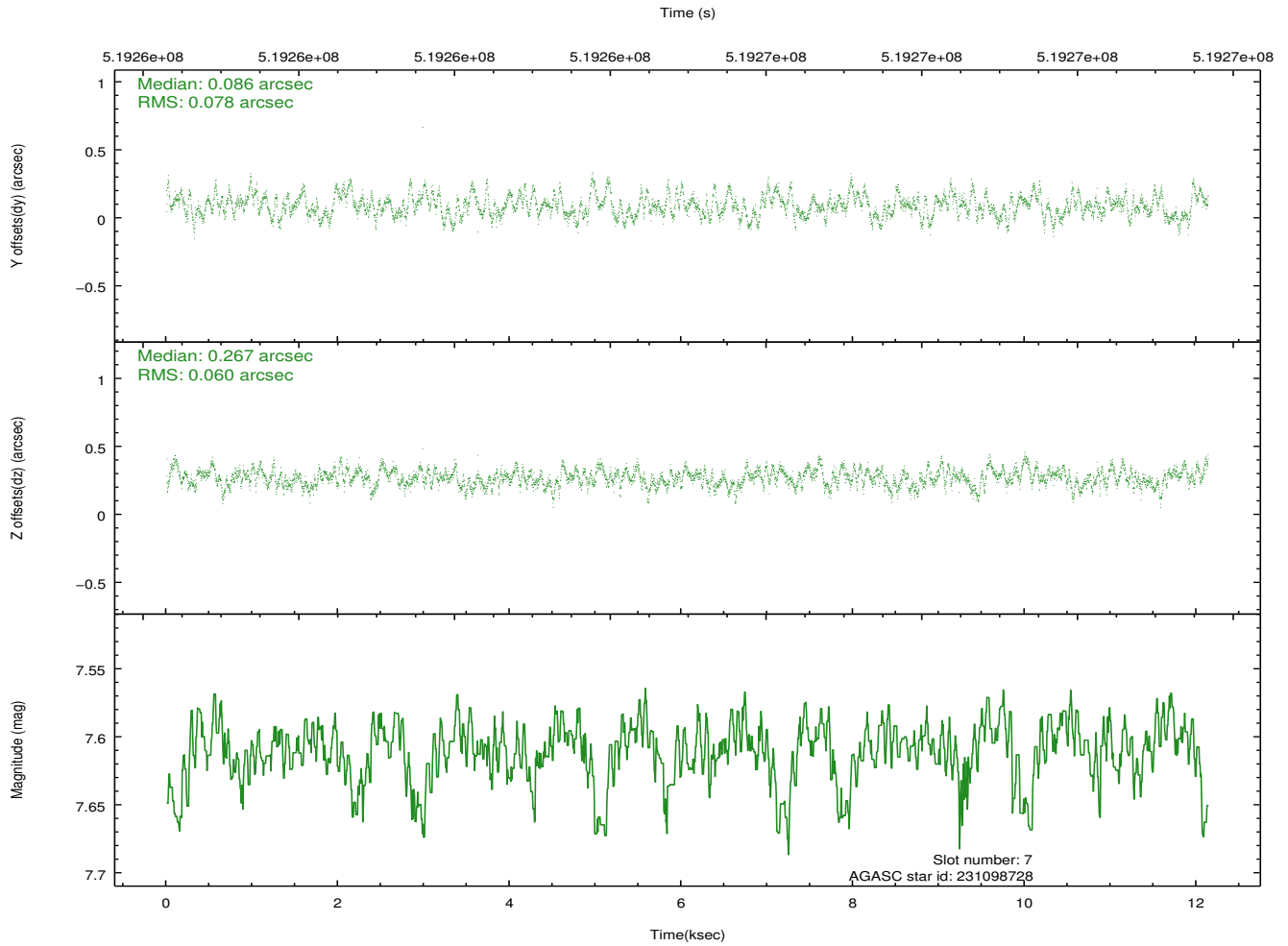
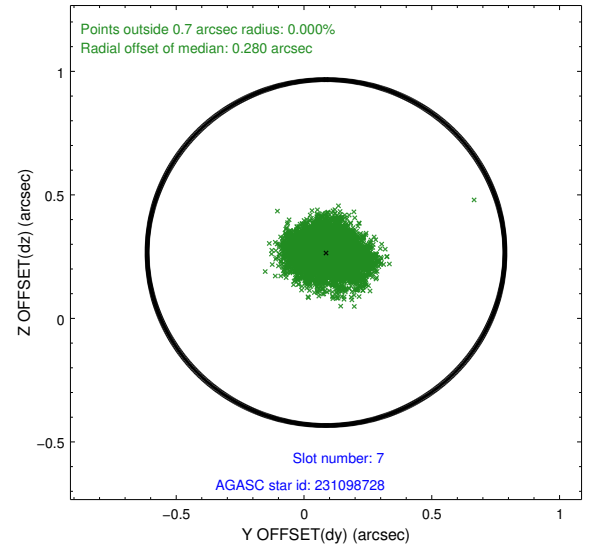
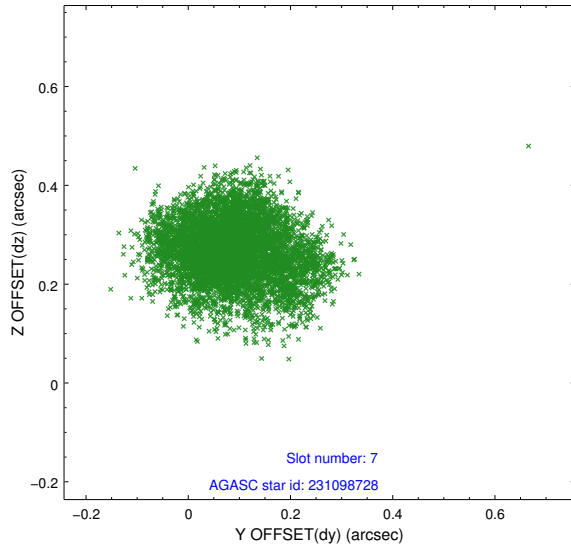
2.4.3 Slot 5



2.4.4 Slot 6

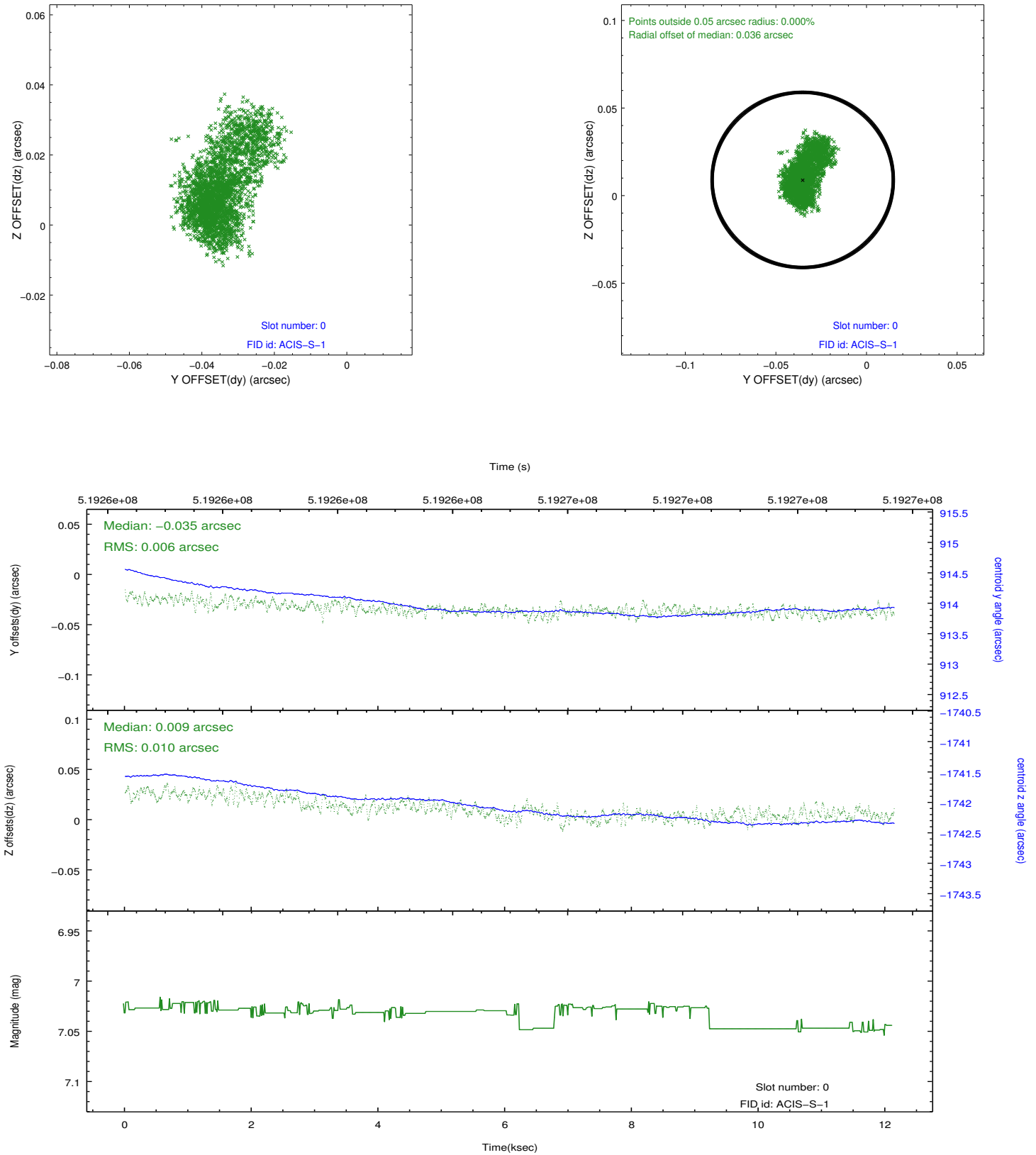


2.4.5 Slot 7

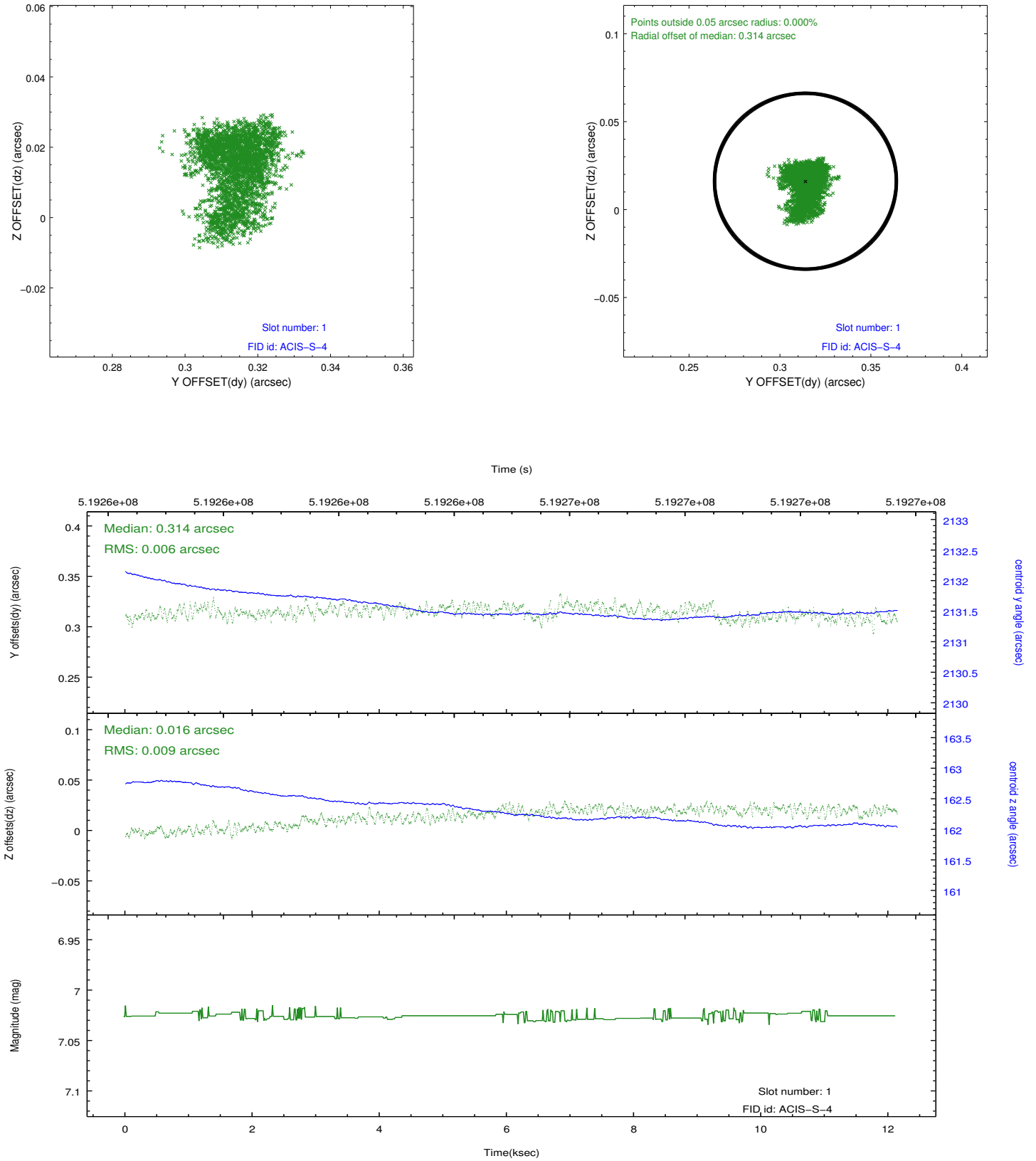


2.5 FID Slots

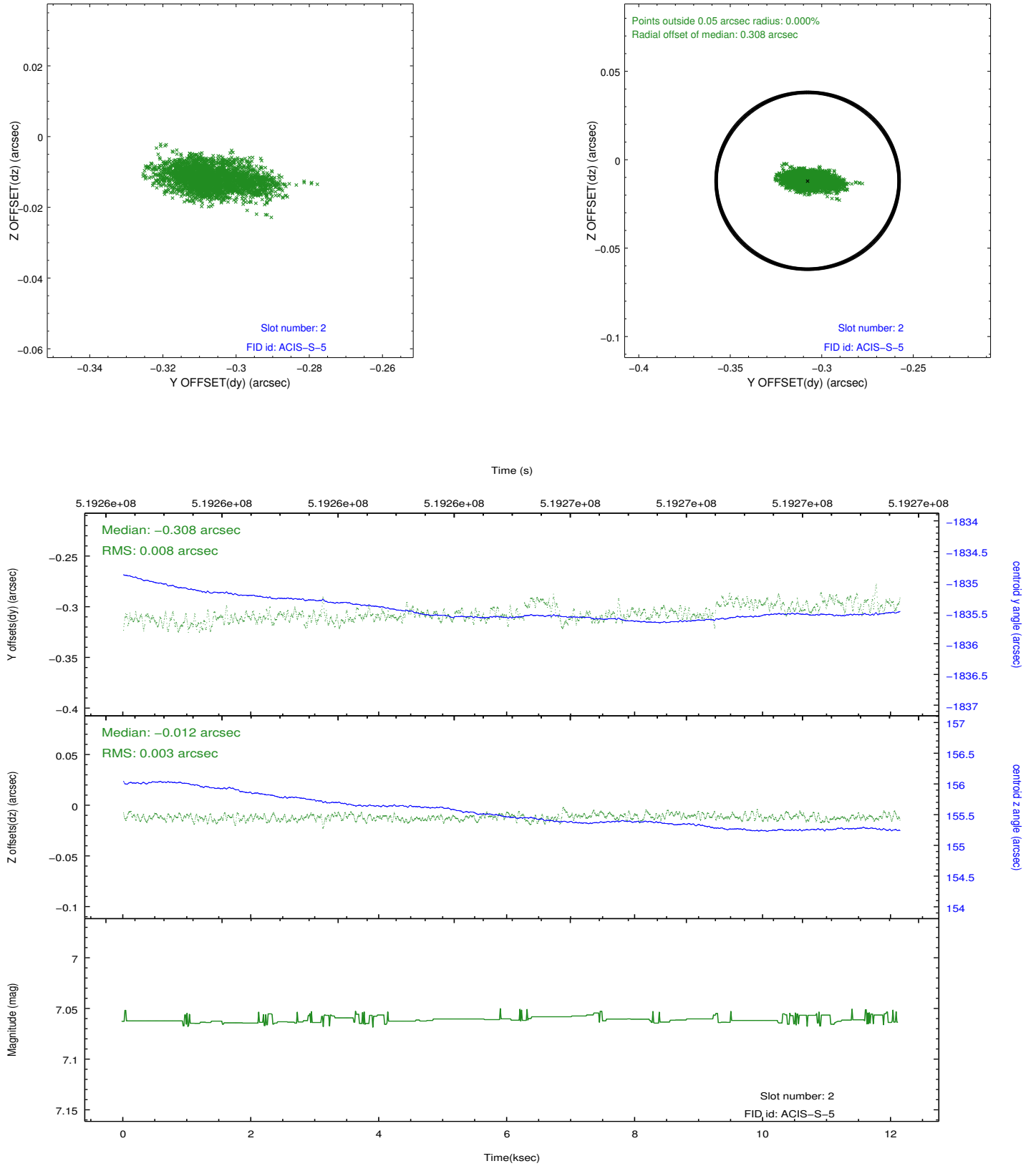
2.5.1 Slot 0



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)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.077600092888

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.