

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 408 - L2 Version 4
Chandra X-Ray Center

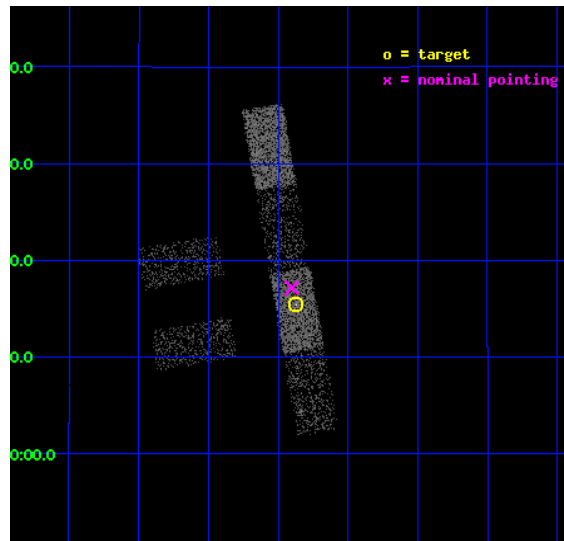
L2 Processing Date : Aug 21 2012

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1 Front

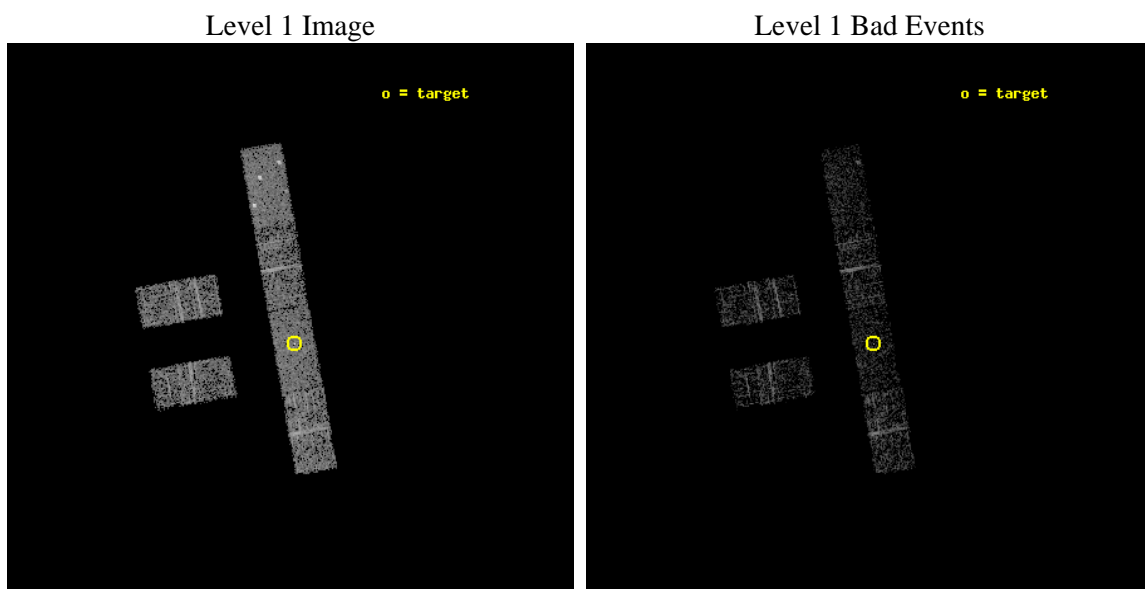
seq_num	700080	Sequence number
obs_id	408	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 4639	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.718125	Observer's specified target RA [deg]
dec_targ	13.257333	Observer's specified target Dec [deg]
ra_nom	190.72546102869	Nominal RA [deg]
dec_nom	13.28620200871	Nominal Dec [deg]
roll_nom	80.155753823831	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1463.3999975771	Sum of GTIs [s]
livetime	1430.7782533996	Livetime [s]
ontime2	1463.3999975771	Sum of GTIs [s]
ontime3	1463.3385164216	Sum of GTIs [s]
ontime5	1463.3999975771	Sum of GTIs [s]
ontime6	1463.3795564249	Sum of GTIs [s]
ontime7	1463.3999975771	Sum of GTIs [s]
ontime8	1463.3999975771	Sum of GTIs [s]
l2events	9105	Number of level 2 events



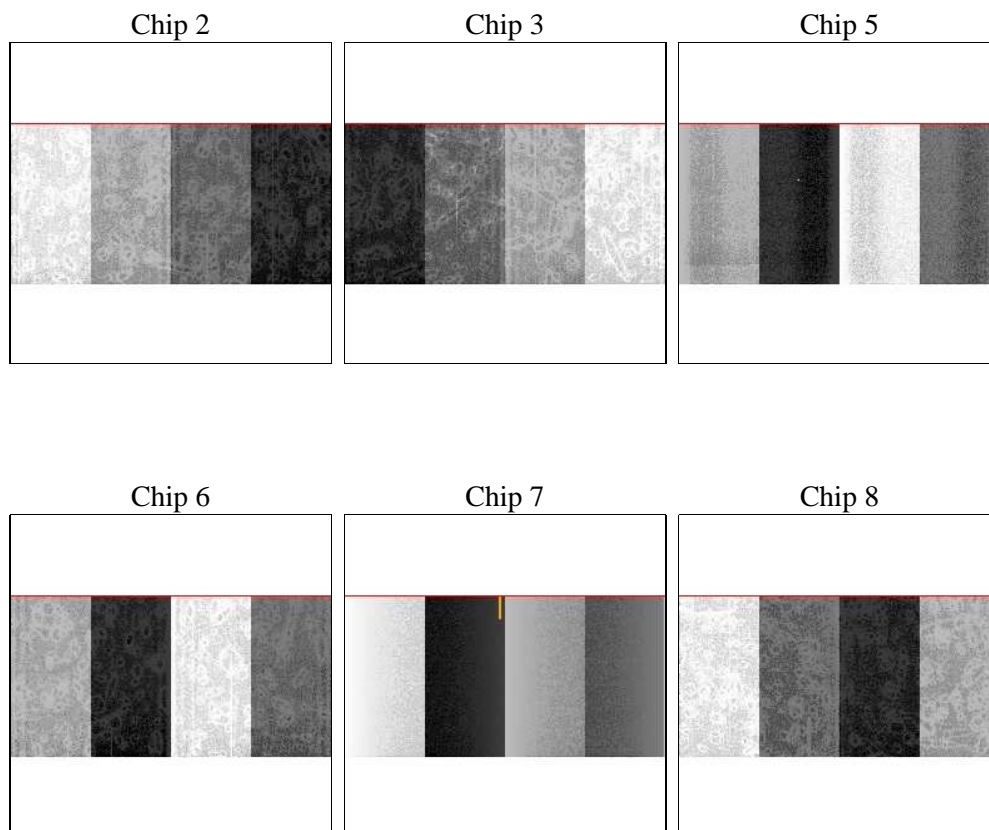
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1463.3999975771	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	1463.3999975771	Sum of GTIs [s]
date	2012-08-22T01:05:21	Date and time of file creation	ontime3	1463.3385164216	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1463.3999975771	Sum of GTIs [s]
			ontime6	1463.3795564249	Sum of GTIs [s]
			ontime7	1463.3999975771	Sum of GTIs [s]
			ontime8	1463.3999975771	Sum of GTIs [s]
			l1events	45960	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	7195	6442	9152	6725	7610	8836
rejected events	6508	5806	4110	6042	4058	7162
rejected %	90%	90%	44%	89%	53%	81%

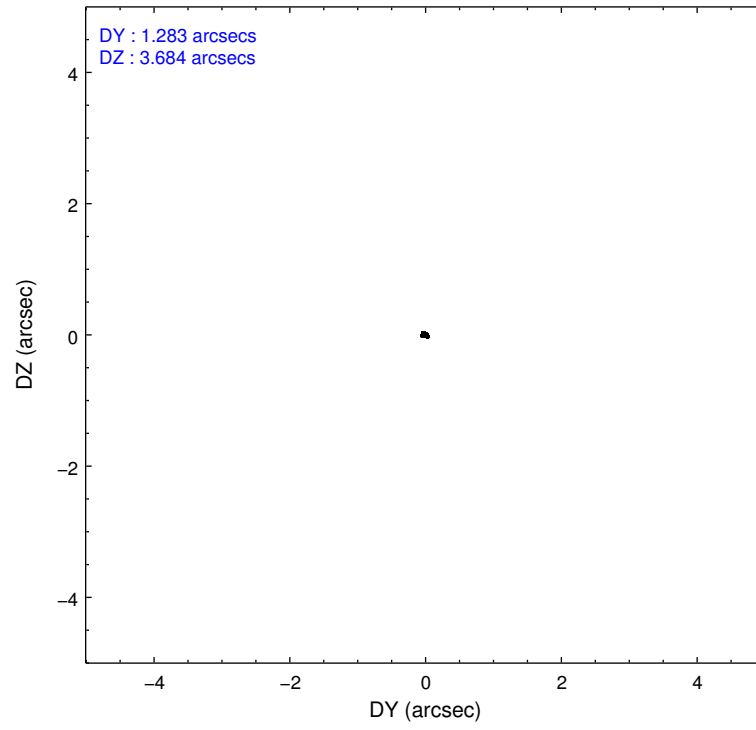
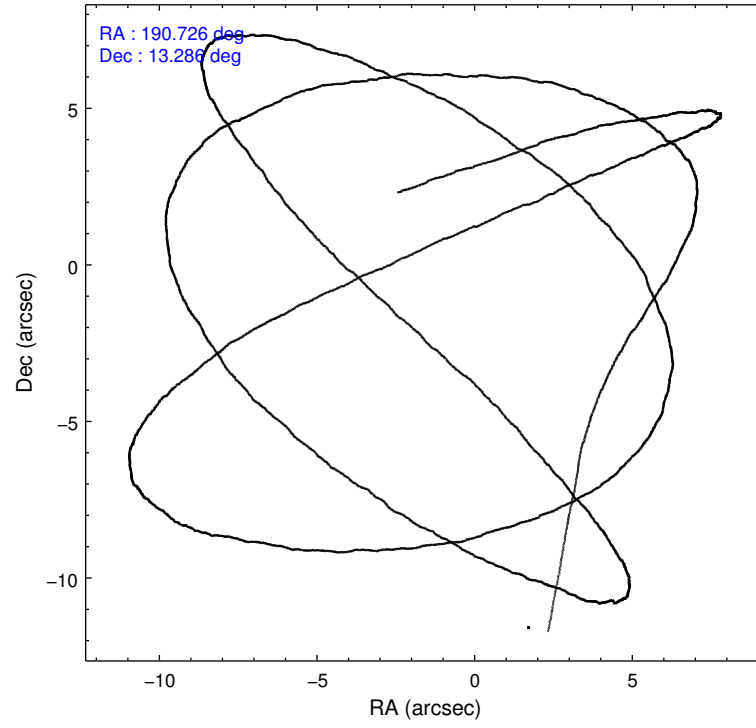
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	272	283	1730	266	474	477
	3%	4%	18%	3%	6%	5%
grade 1 events	3	3	27	2	18	5
	0%	0%	0%	0%	0%	0%
grade 2 events	134	97	1204	123	767	412
	1%	1%	13%	1%	10%	4%
grade 3 events	91	70	183	82	365	143
	1%	1%	1%	1%	4%	1%
grade 4 events	78	75	173	89	366	122
	1%	1%	1%	1%	4%	1%
grade 5 events	199	182	636	207	682	279
	2%	2%	6%	3%	8%	3%
grade 6 events	112	111	1758	123	1581	520
	1%	1%	19%	1%	20%	5%
grade 7 events	6306	5621	3441	5833	3357	6878
	87%	87%	37%	86%	44%	77%

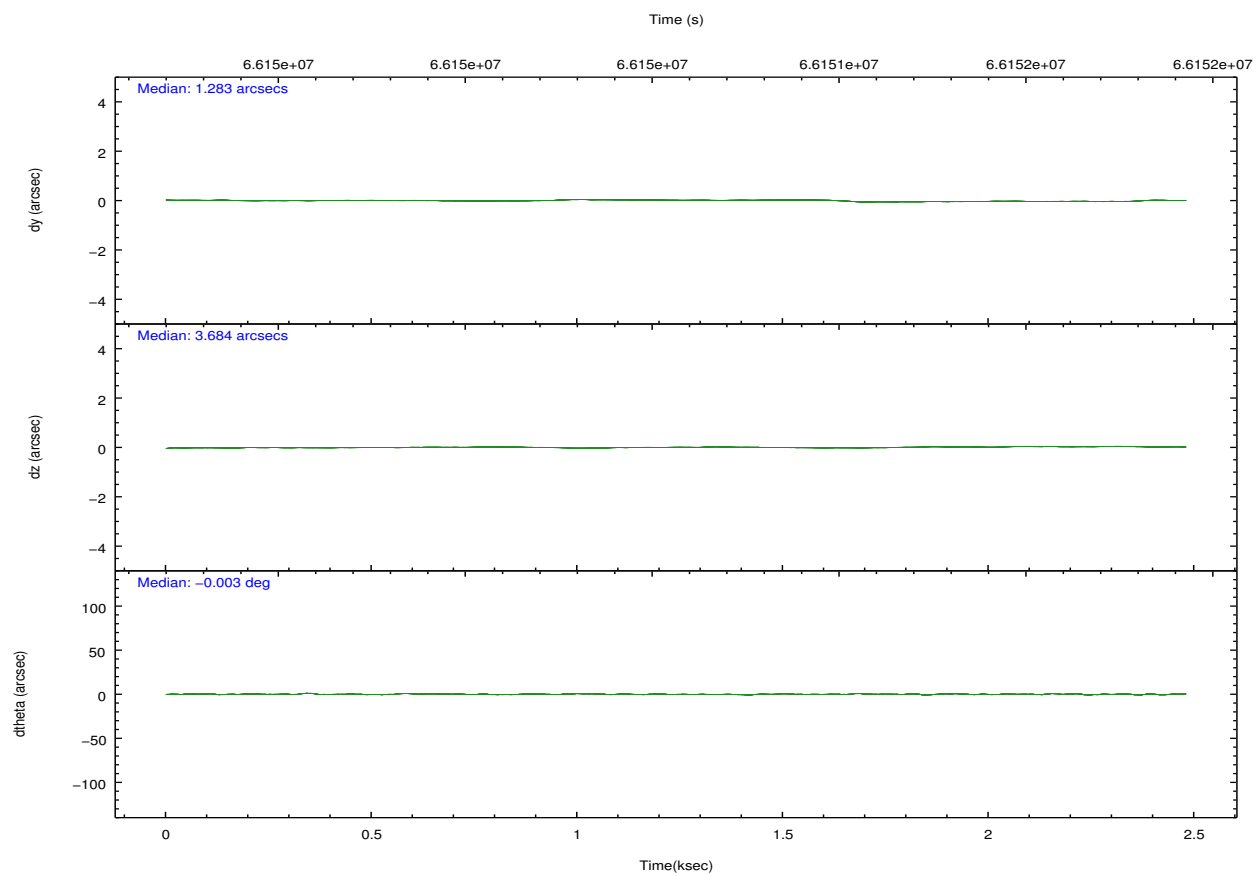
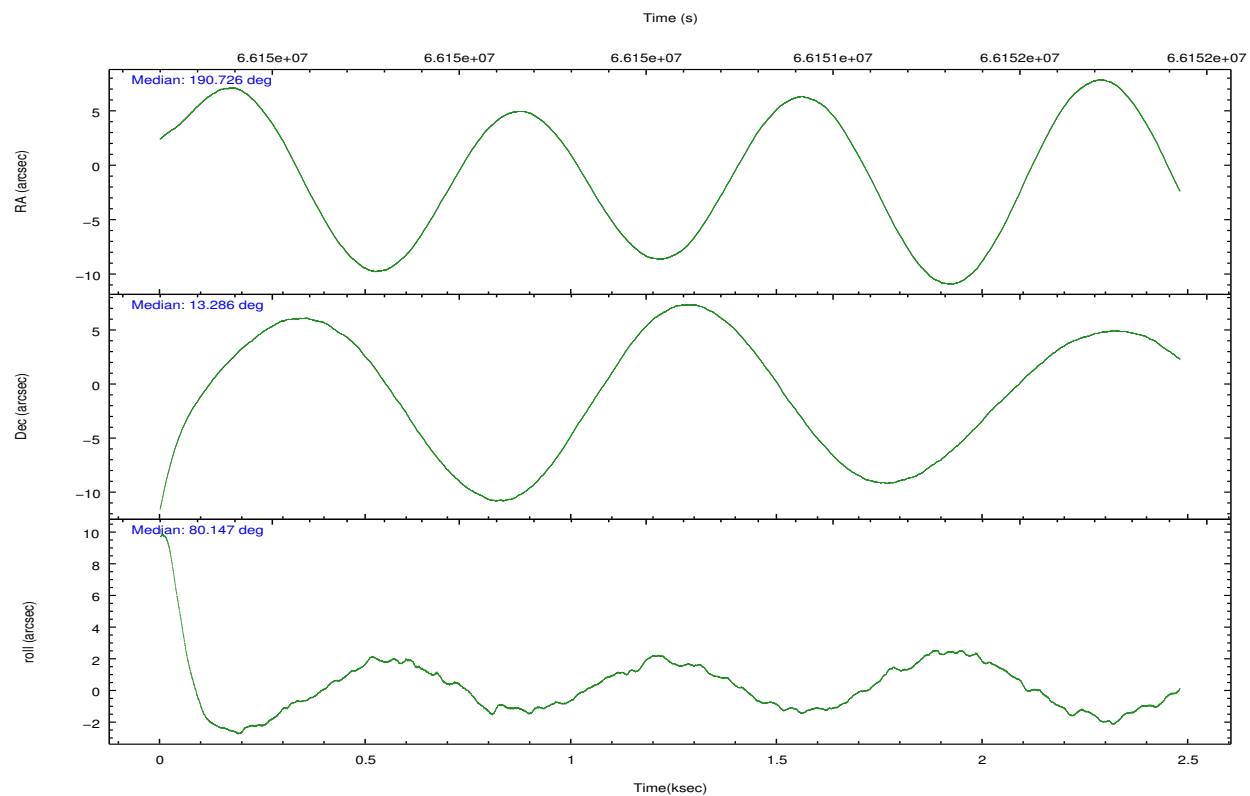
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	190.734983	190.7254610286872
[deg] Pointing Dec	13.260197	13.2862020087099
[deg] Pointing Roll	79.996877	80.15575382383129
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	66149805.184000	66148467.872171
Observation start date	2000-02-05T14:55:41	2000-02-05T14:34:27
[s] Observation end time (MET)	66151805.184000	66152313.159811
Observation end date	2000-02-05T15:29:01	2000-02-05T15:38:33
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/2
Subarray start row	255	255
Subarray row count	512	512
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1.8

2.3 Aspect



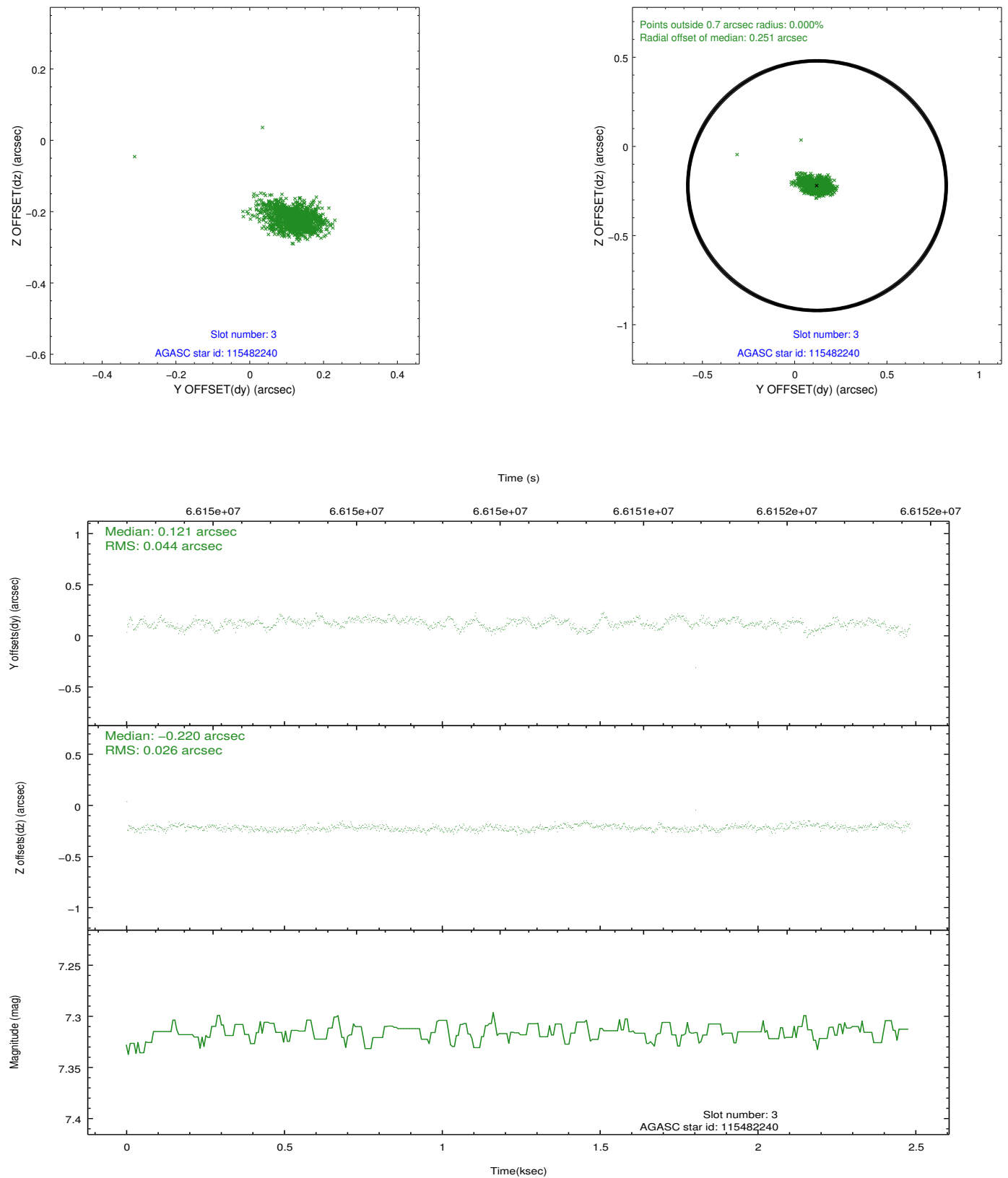


Slot Statistics

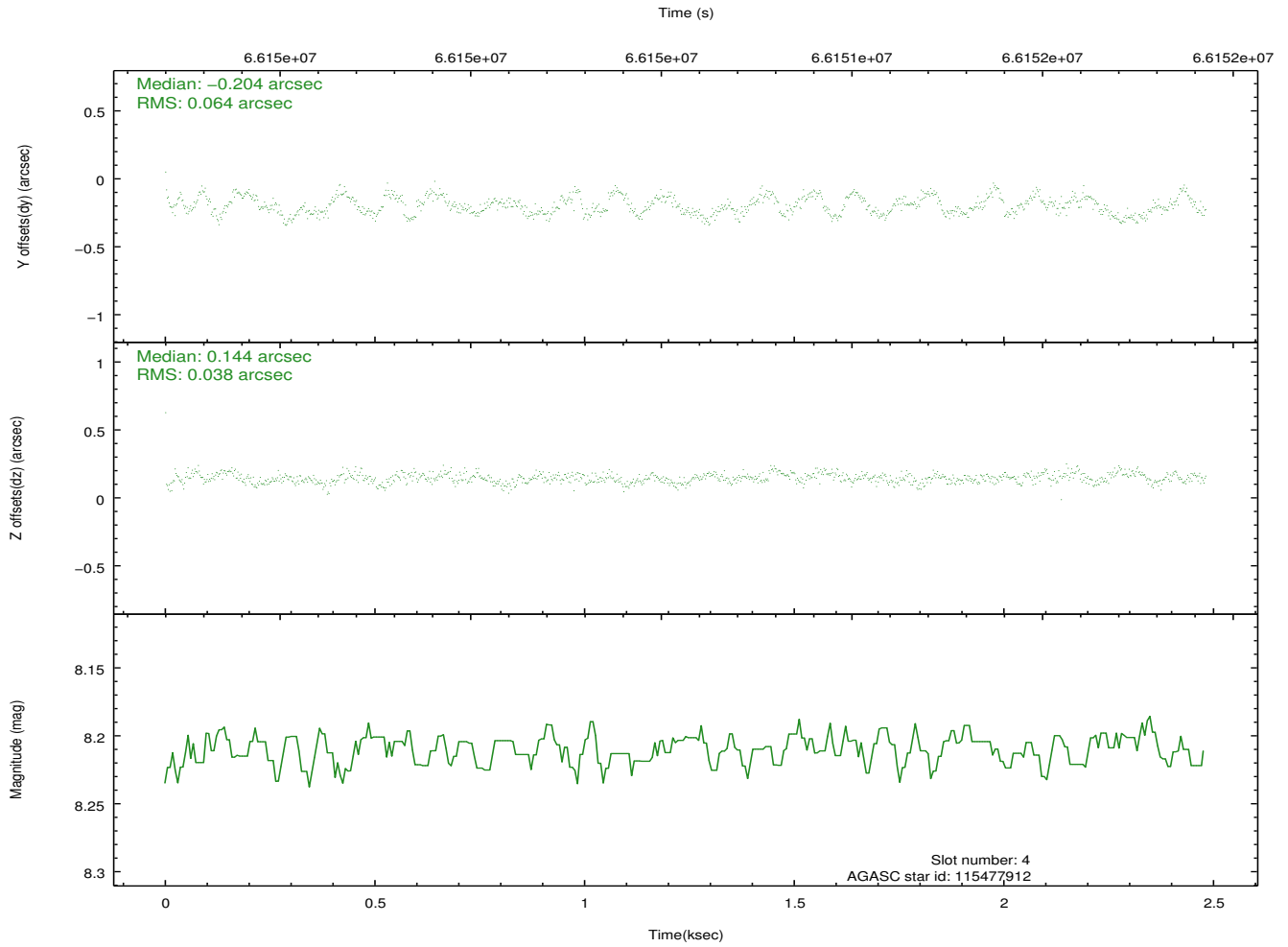
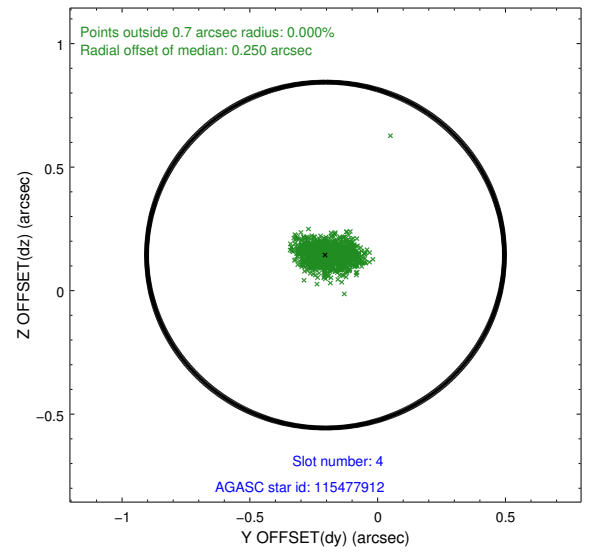
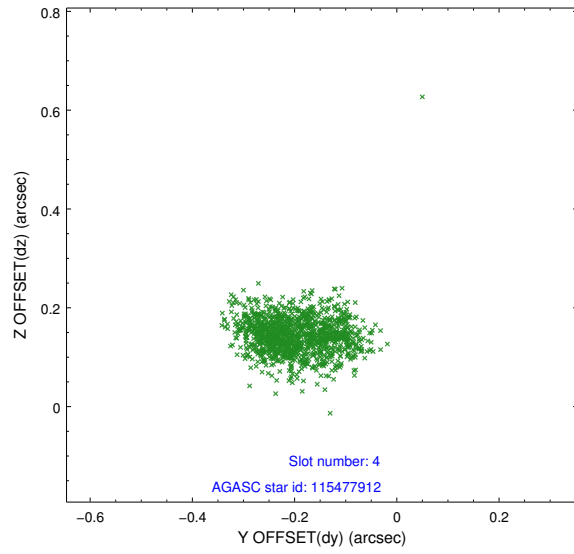
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	605	-0.005	-0.012	0.006	0.010	0.000000	0.000000	-753.92	-1724.75
1	FID	ACIS-S-4	7.21	605	-0.003	0.006	0.006	0.010	0.000000	0.000000	2158.23	180.98
2	FID	ACIS-S-5	7.23	605	-0.023	0.015	0.007	0.011	0.000000	0.000000	-1803.37	177.74
3	GUIDE	115482240	7.32	1211	0.121	-0.220	0.052	0.087	190.182782	12.715426	-2266.75	1569.76
4	GUIDE	115477912	8.21	1211	-0.204	0.144	0.079	0.127	191.480423	13.583124	1599.73	-2363.80
5	GUIDE	115476792	9.19	1210	0.013	-0.005	0.072	0.119	190.933104	13.143247	-292.73	-758.25
6	GUIDE	115477424	9.23	1210	0.115	0.058	0.074	0.129	190.783230	12.743104	-1804.32	-490.21
7	GUIDE	115477968	9.49	1206	-0.052	0.020	0.080	0.126	191.111314	13.477894	999.80	-1160.58

2.4 Star Slots

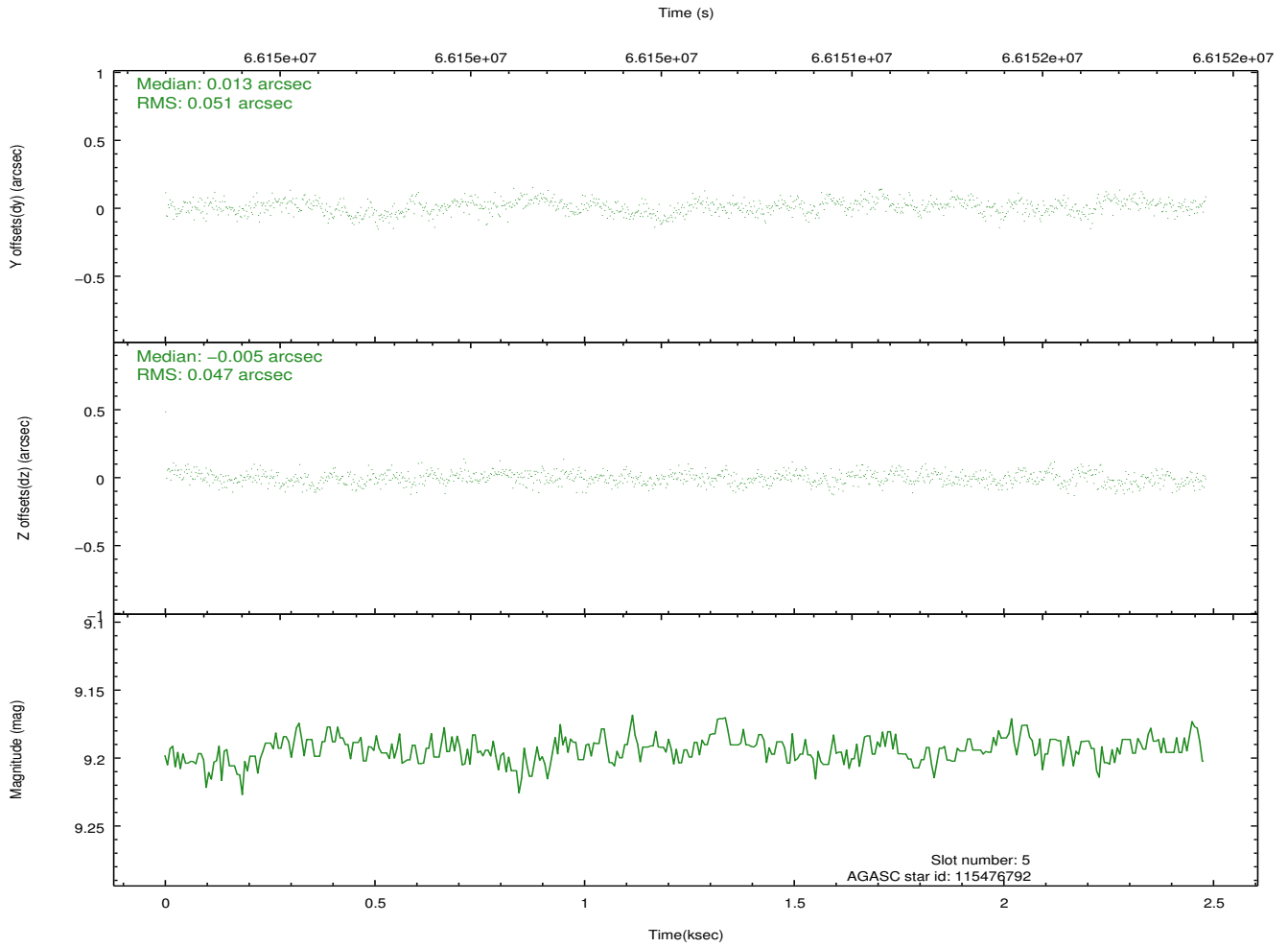
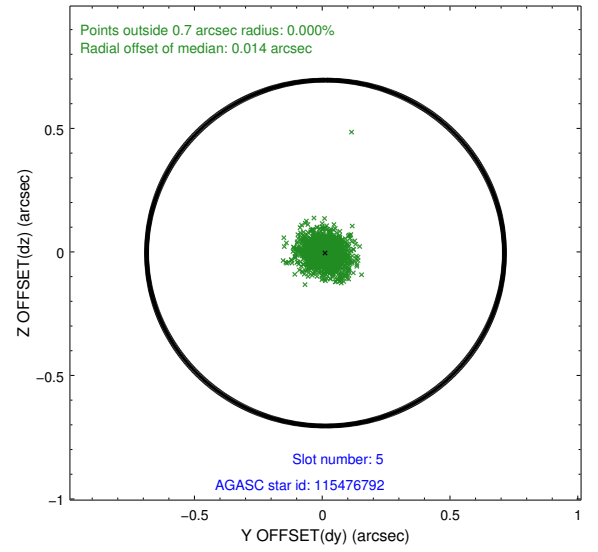
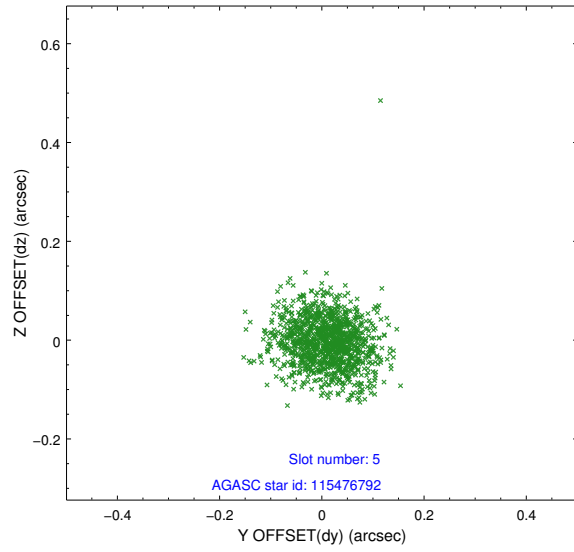
2.4.1 Slot 3



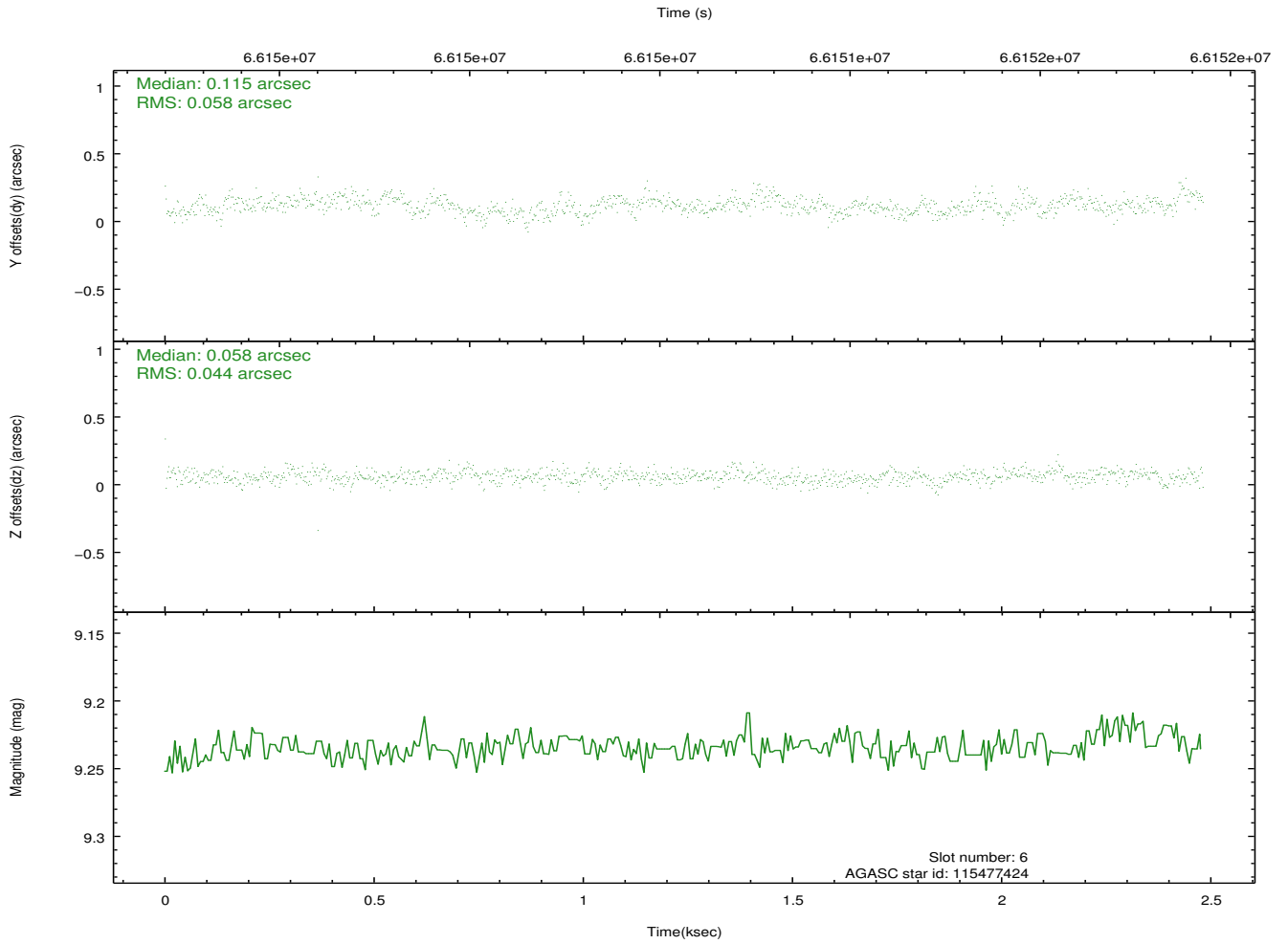
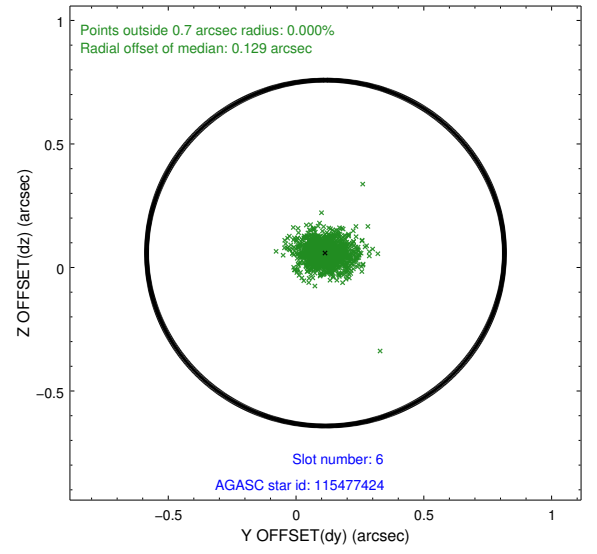
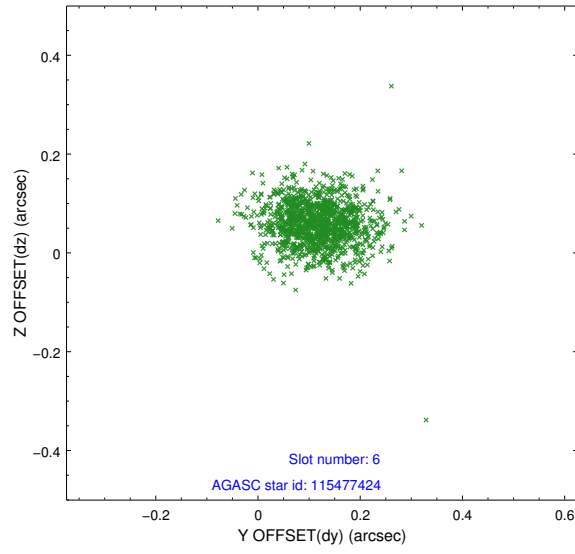
2.4.2 Slot 4



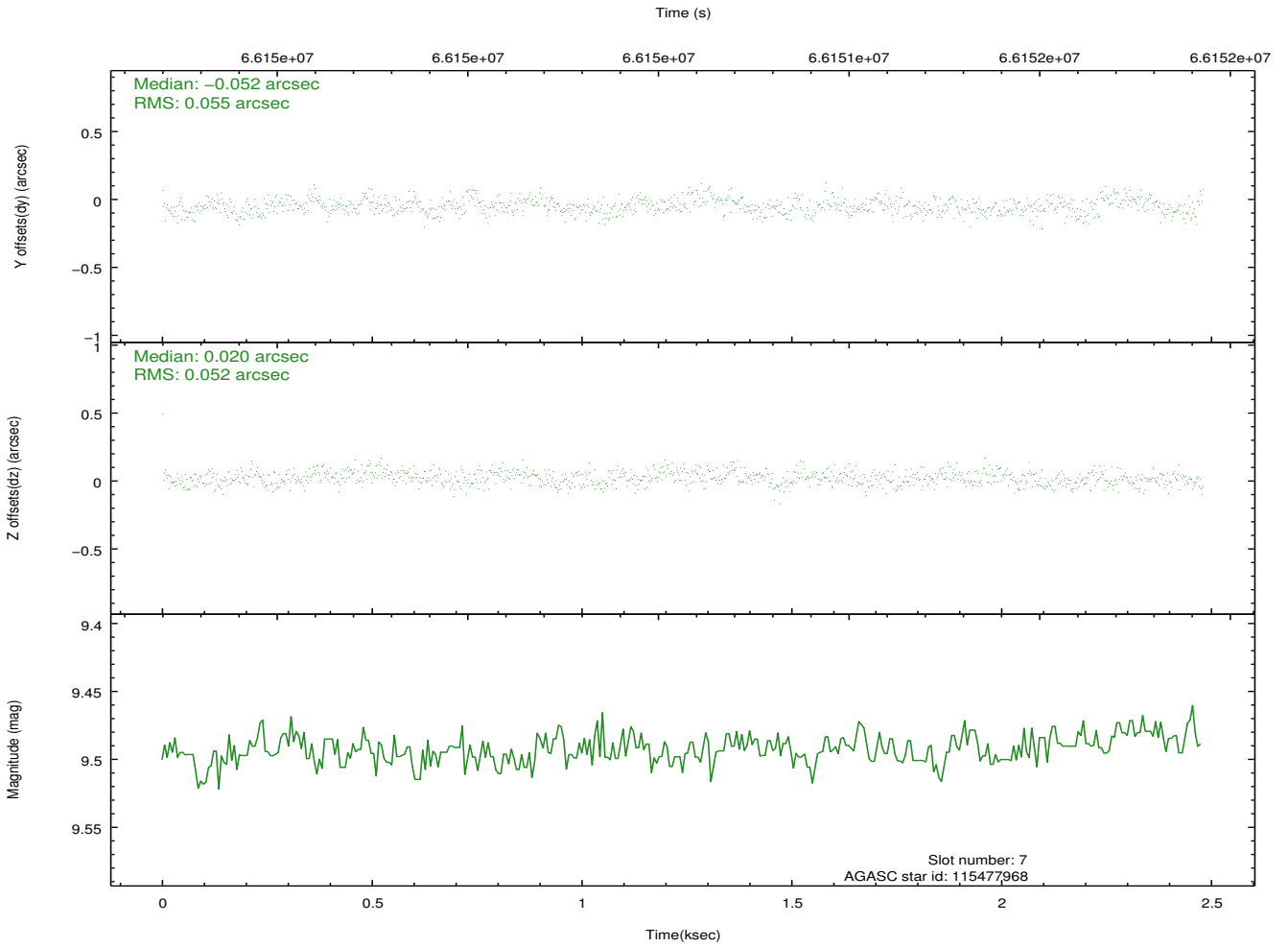
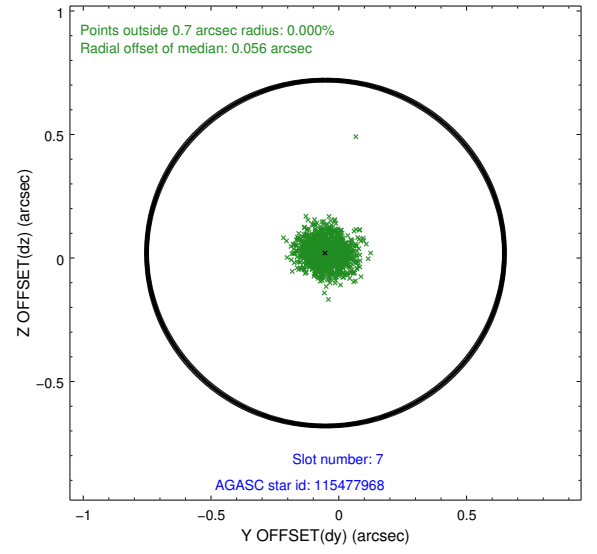
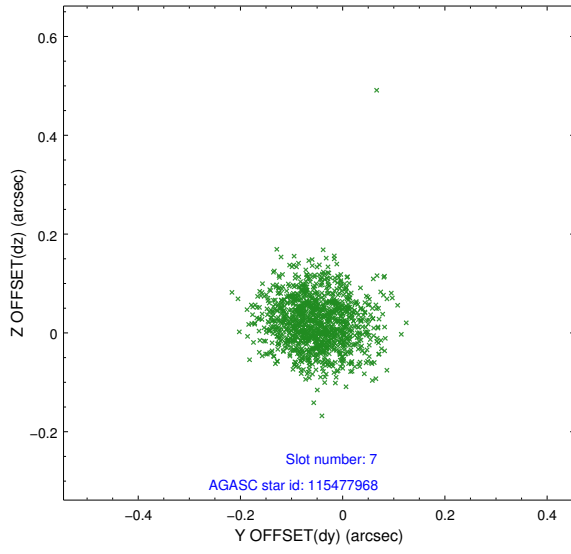
2.4.3 Slot 5



2.4.4 Slot 6

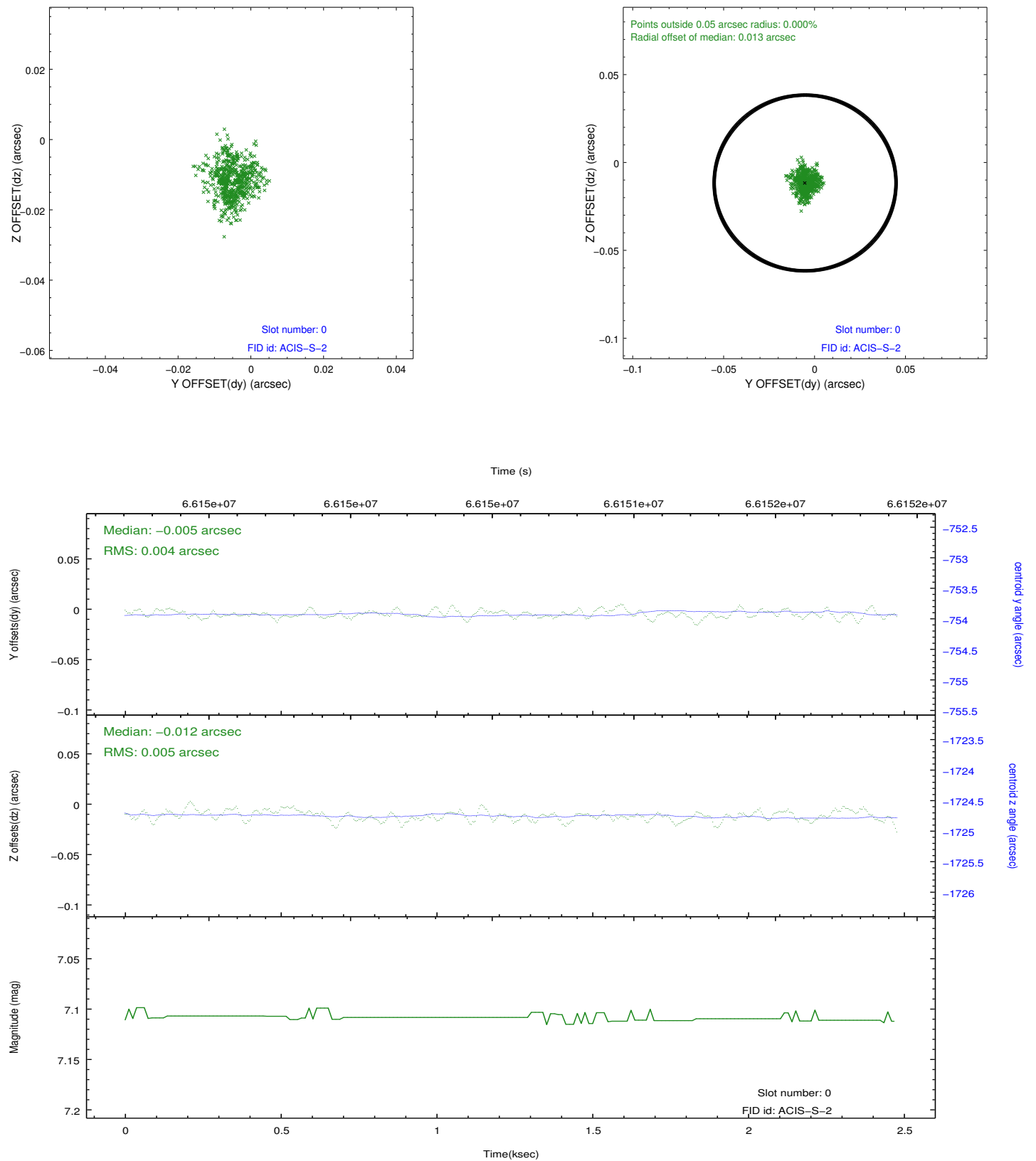


2.4.5 Slot 7

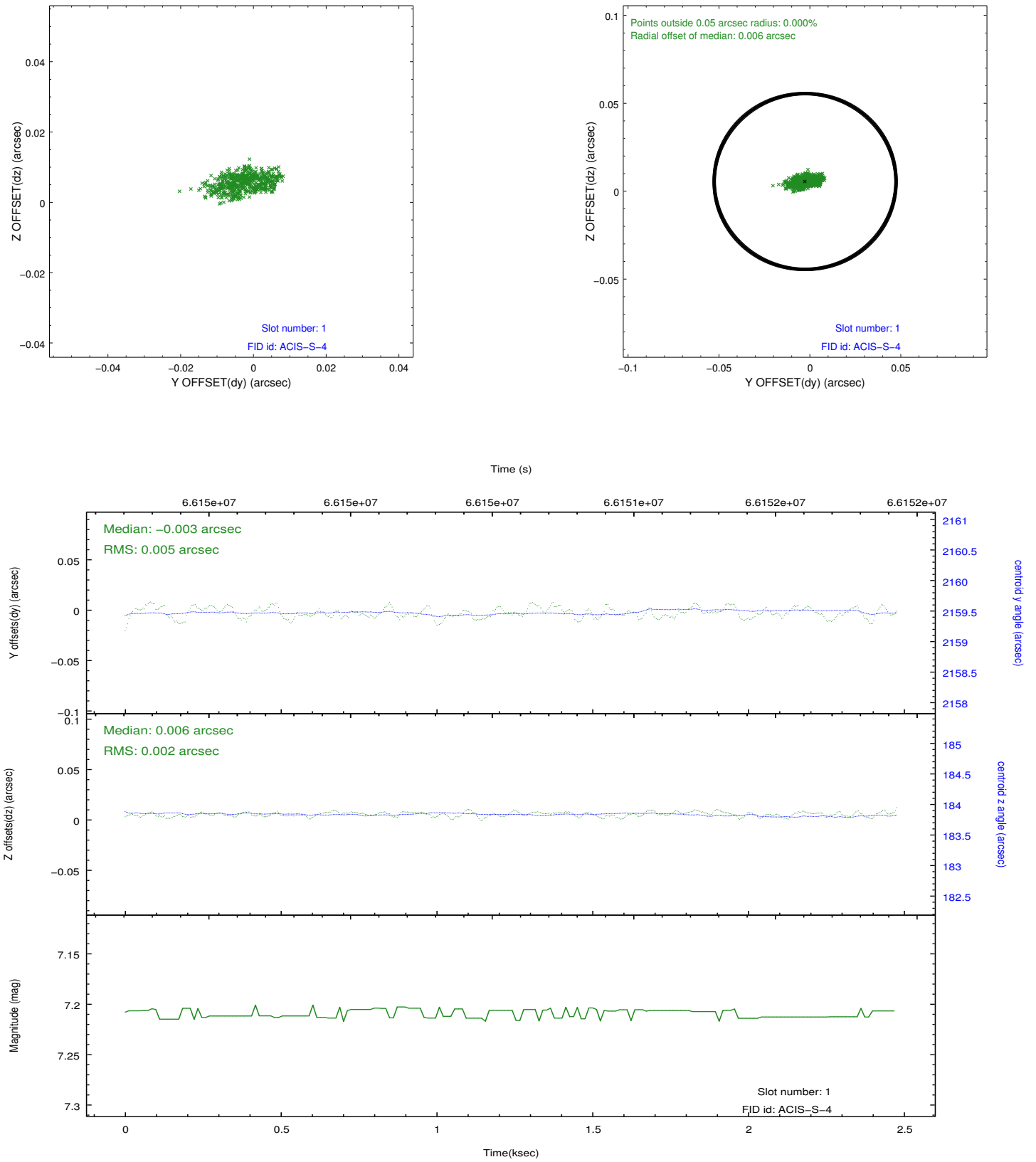


2.5 FID Slots

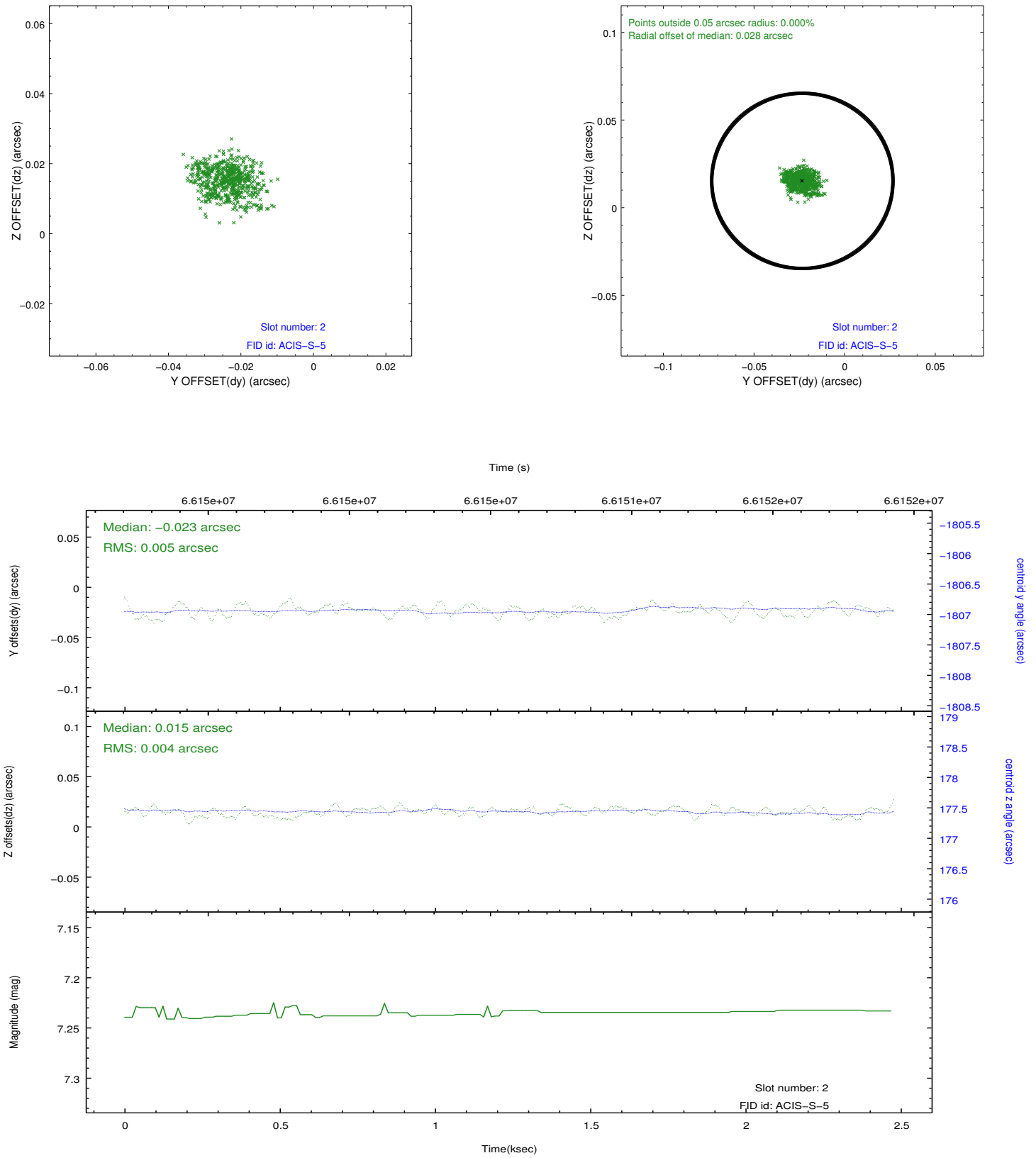
2.5.1 Slot 0



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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.465

A.2 Comments