

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4071 - L2 Version 3
Chandra X-Ray Center

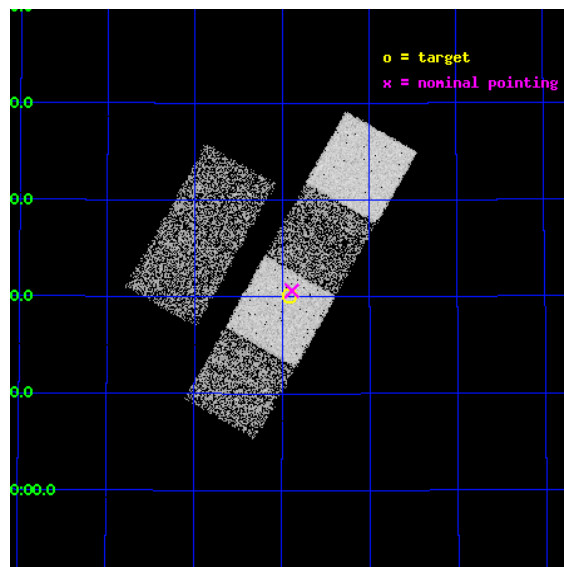
L2 Processing Date : Oct 24 2012

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

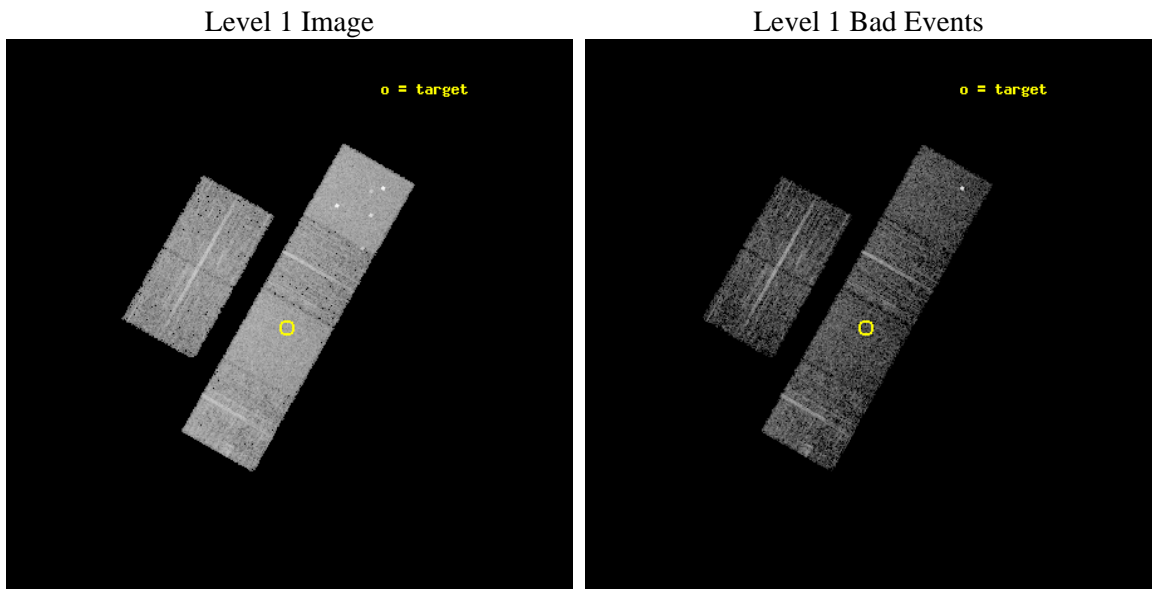
seq_num	700750	Sequence number
obs_id	4071	Observation id
title	A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT Z>4	Proposal titl
observer	Dr Cristian Vignali	Principal investigator
object	PSS 1506+5220	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	226.727083	Observer's specified target RA [deg]
dec_targ	52.334778	Observer's specified target Dec [deg]
ra_nom	226.72167607801	Nominal RA [deg]
dec_nom	52.343843856333	Nominal Dec [deg]
roll_nom	119.59521580641	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4918.1746706367	Sum of GTIs [s]
livetime	4855.8977815878	Livetime [s]
ontime2	4918.21571064	Sum of GTIs [s]
ontime3	4918.0515506268	Sum of GTIs [s]
ontime5	4918.1336306334	Sum of GTIs [s]
ontime6	4918.0925906301	Sum of GTIs [s]
ontime7	4918.1746706367	Sum of GTIs [s]
ontime8	4918.0105106533	Sum of GTIs [s]
l2events	52358	Number of level 2 events



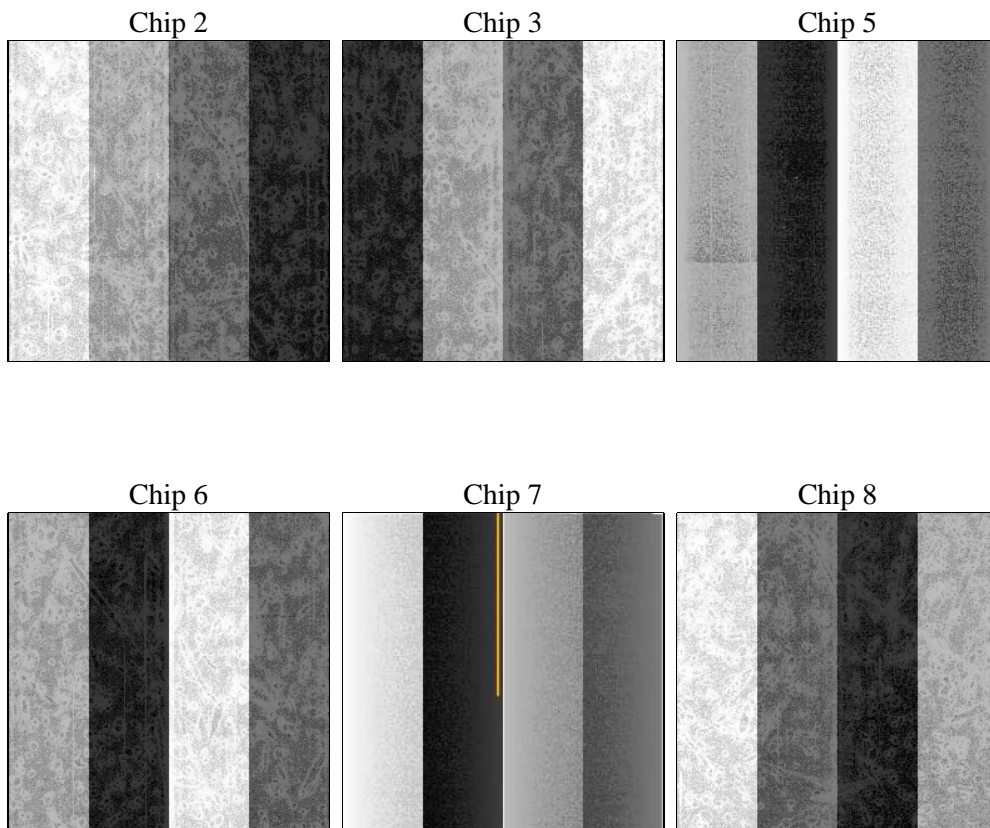
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4959.941000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4918.1746706367	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	4918.21571064	Sum of GTIs [s]
date	2012-10-24T12:50:13	Date and time of file creation	ontime3	4918.0515506268	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4918.1336306334	Sum of GTIs [s]
			ontime6	4918.0925906301	Sum of GTIs [s]
			ontime7	4918.1746706367	Sum of GTIs [s]
			ontime8	4918.0105106533	Sum of GTIs [s]
			l1events	228205	Number of level 1 events

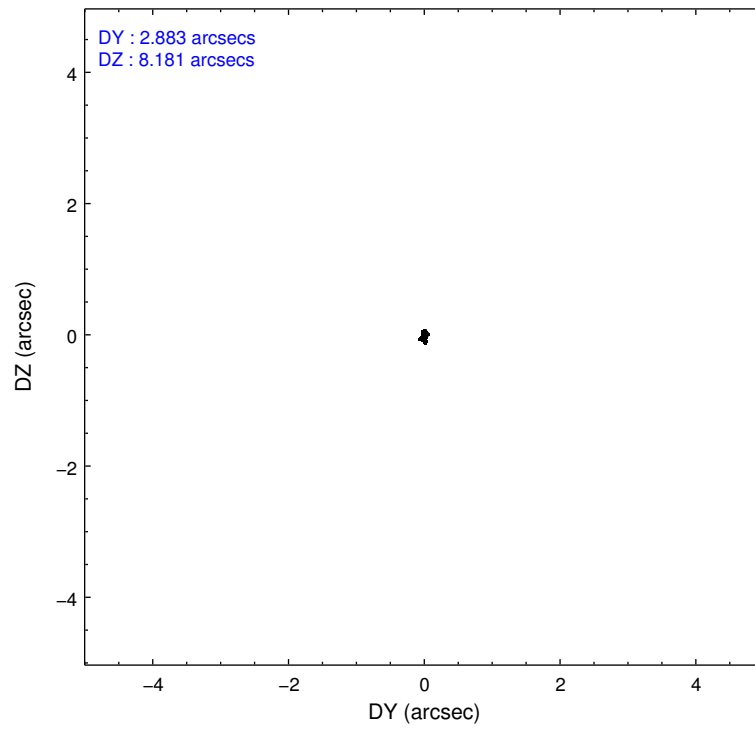
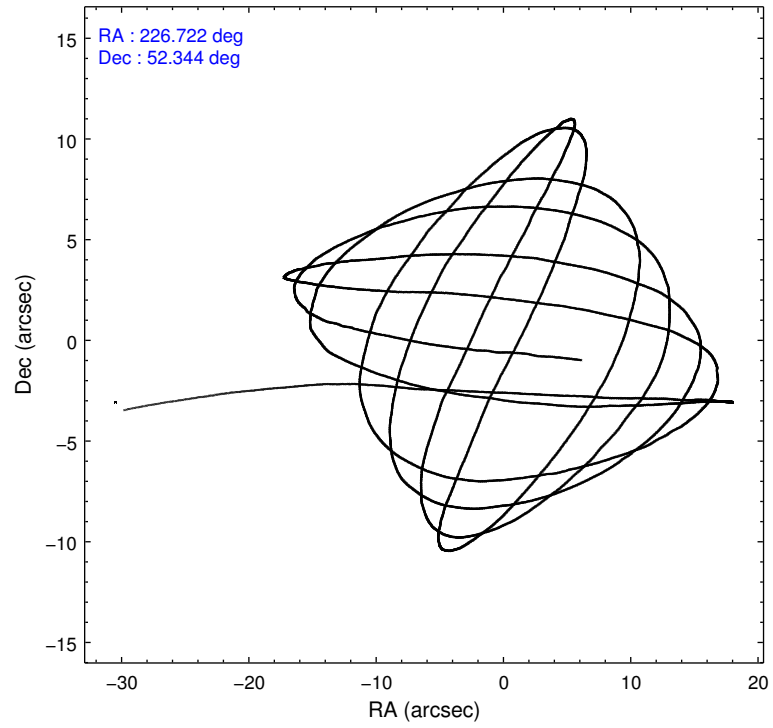
2.1.4 Events

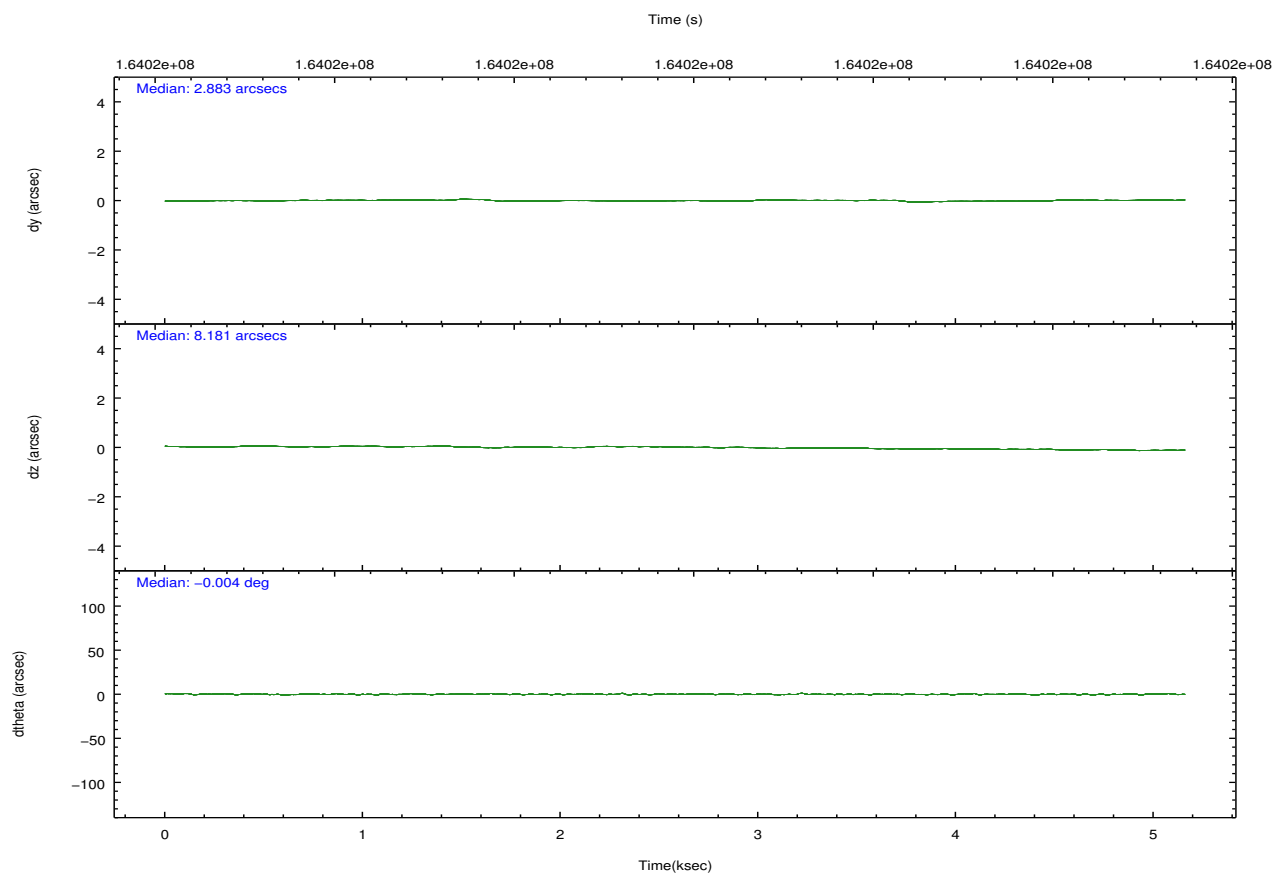
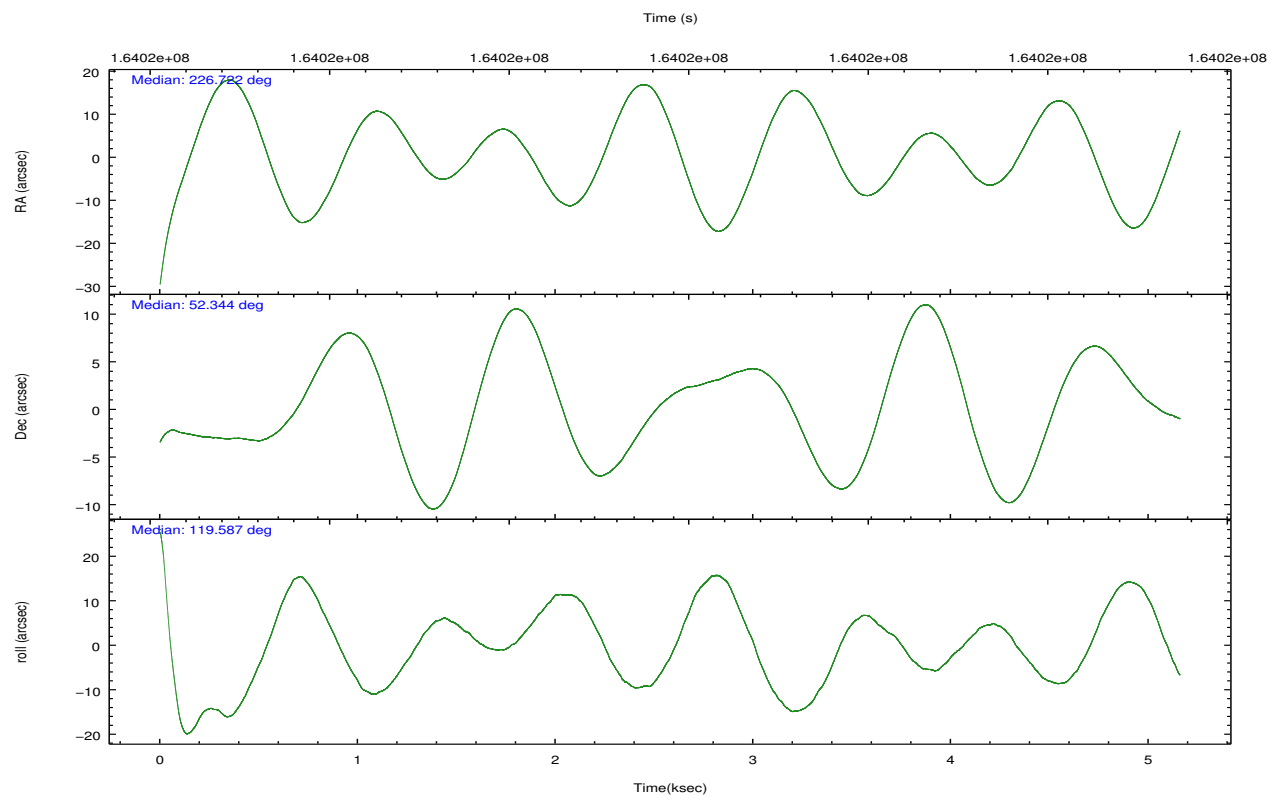
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	31886	29923	50564	31900	43569	40363	grade 0 events	1732	1566	3877	1507	1790	2671
rejected events	28147	26351	26365	28240	25148	32193		5%	5%	7%	4%	4%	6%
rejected %	88%	88%	52%	88%	57%	79%	grade 1 events	24	15	72	16	45	27
								0%	0%	0%	0%	0%	0%
							grade 2 events	674	672	6980	750	3594	1781
								2%	2%	13%	2%	8%	4%
							grade 3 events	360	339	940	372	1624	816
								1%	1%	1%	1%	3%	2%
							grade 4 events	376	363	938	317	1646	837
								1%	1%	1%	0%	3%	2%
							grade 5 events	1233	1382	4228	1377	4187	1903
								3%	4%	8%	4%	9%	4%
							grade 6 events	600	638	11507	720	9788	2069
								1%	2%	22%	2%	22%	5%
							grade 7 events	26887	24948	22022	26841	20895	30259
								84%	83%	43%	84%	47%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	226.760536	226.721676078008	Subarray requested	NONE	NONE
[deg] Pointing Dec	52.330421	52.34384385633251	Alternating exposures requested	N	N
[deg] Pointing Roll	119.407757	119.5952158064064	[s] Primary exposure time	0.000000	3.2
[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)	164019514.184000	164018536.52961			
Observation start date	2003-03-14T08:57:30	2003-03-14T08:42:16			
[s] Observation end time (MET)	164024474.184000	164024789.02988			
Observation end date	2003-03-14T10:20:10	2003-03-14T10:26:29			
Read mode	TIMED	TIMED			

2.3 Aspect



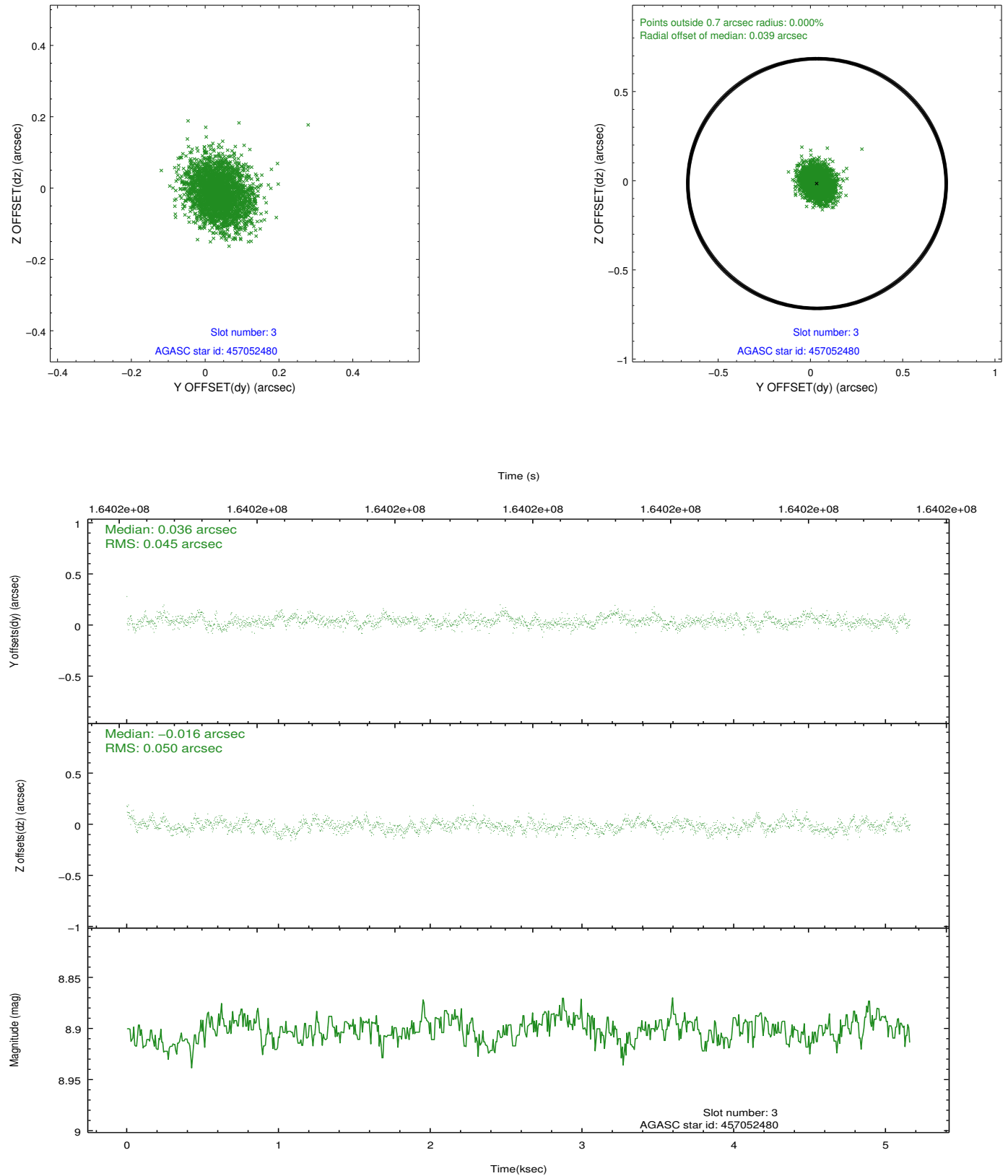


Slot Statistics

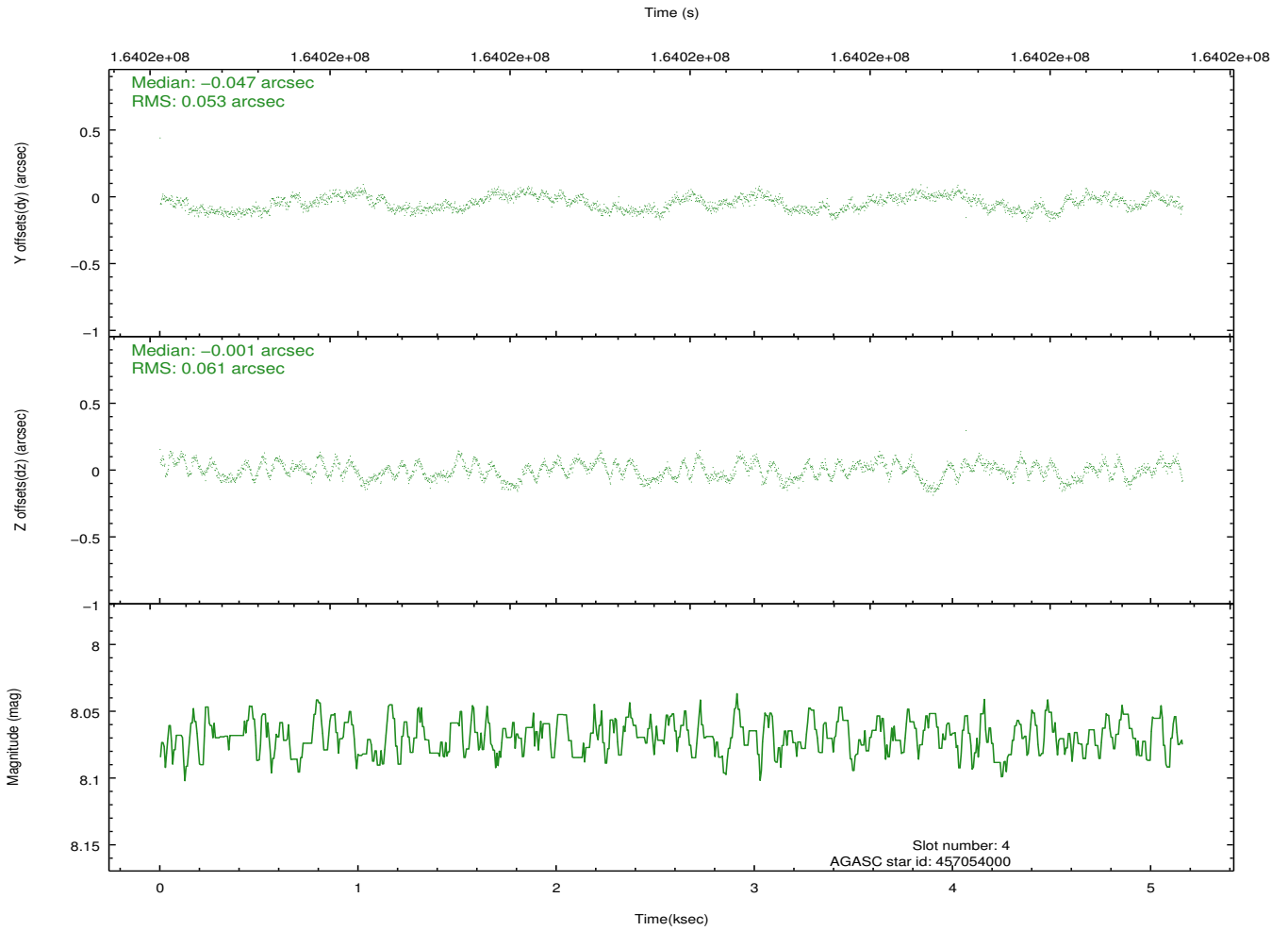
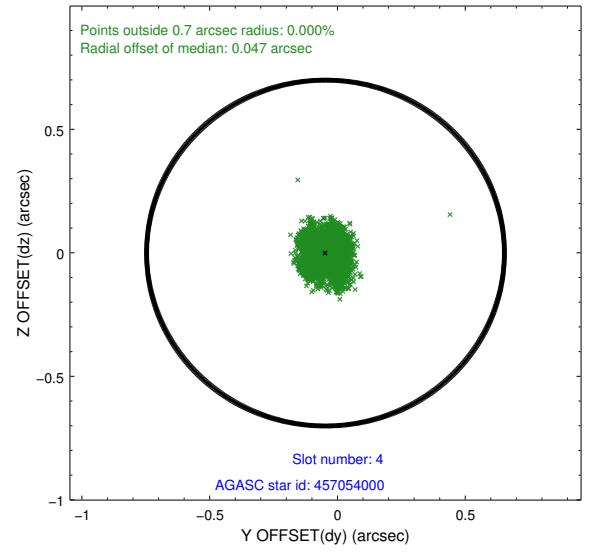
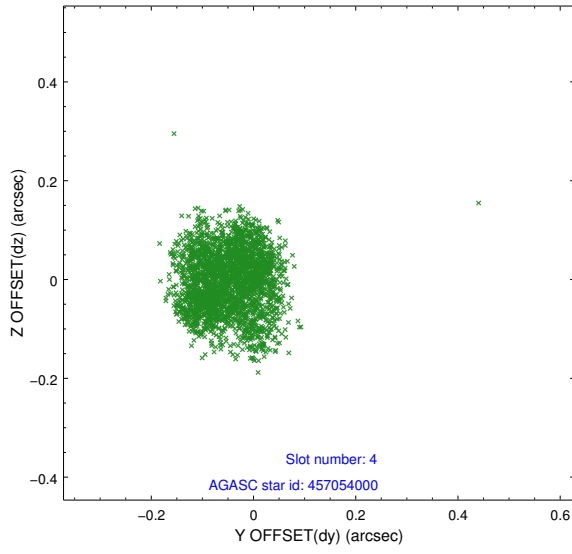
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1259	-0.013	-0.008	0.007	0.012	0.000000	0.000000	-755.54	-1729.37
1	FID	ACIS-S-4	7.20	1259	-0.006	0.009	0.005	0.010	0.000000	0.000000	2157.22	177.91
2	FID	ACIS-S-5	7.23	1259	-0.012	0.008	0.007	0.012	0.000000	0.000000	-1806.86	172.93
3	GUIDE	457052480	8.90	2517	0.036	-0.016	0.072	0.115	226.300607	52.017976	-476.67	1438.18
4	GUIDE	457054000	8.07	2518	-0.047	-0.001	0.088	0.129	227.461785	52.410832	-497.31	-1486.93
5	GUIDE	506993632	9.08	2518	0.003	0.047	0.087	0.136	227.059446	52.987072	1742.69	-1726.21
6	GUIDE	457051496	8.33	2517	-0.023	-0.176	0.077	0.117	225.793548	52.140332	465.85	2189.23
7	GUIDE	506993552	9.73	2469	0.034	0.156	0.117	0.195	227.693247	52.620854	-77.84	-2294.59

2.4 Star Slots

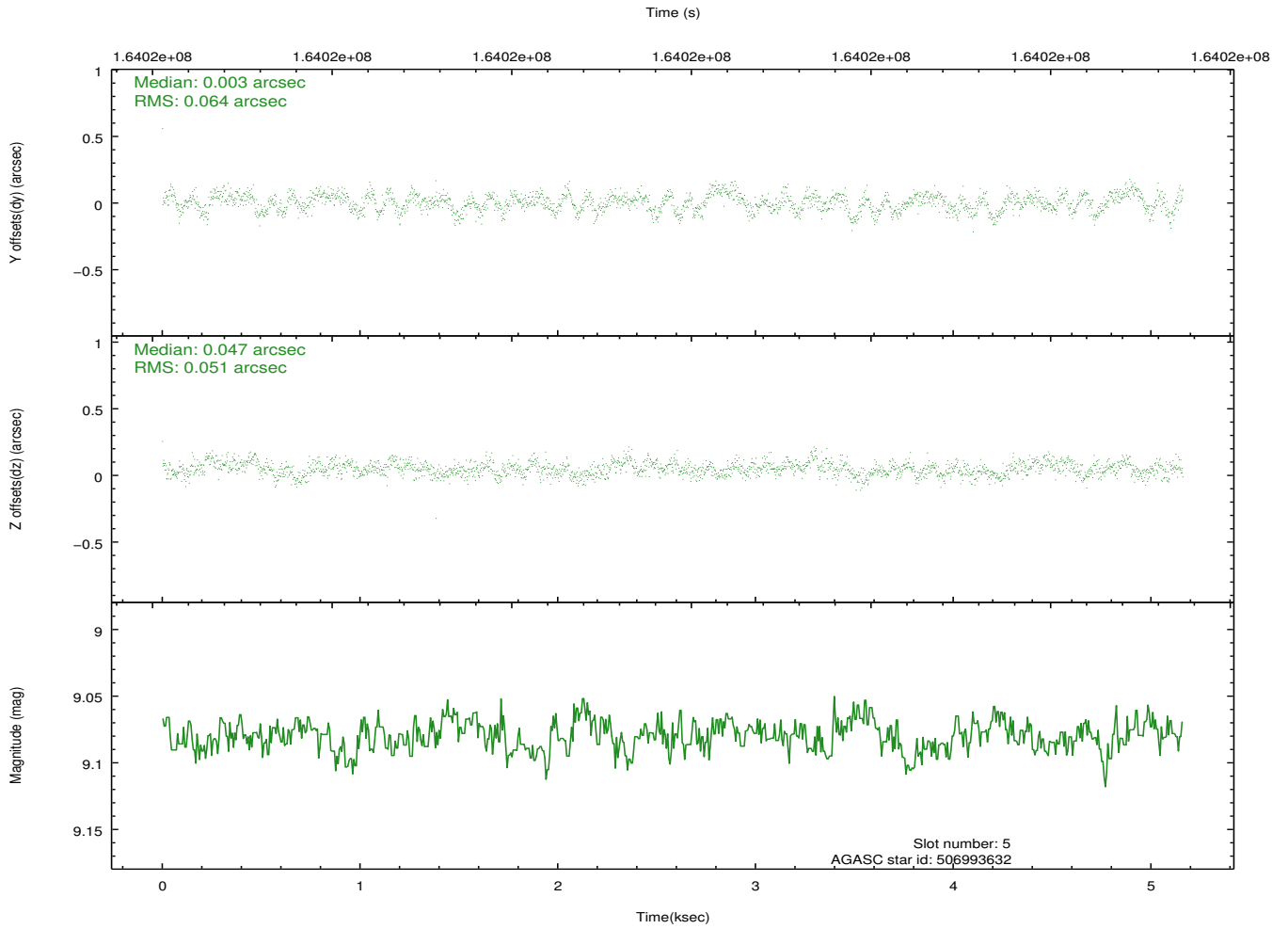
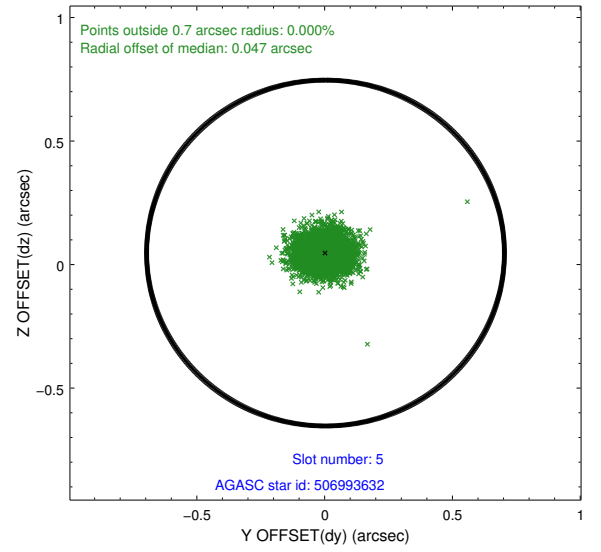
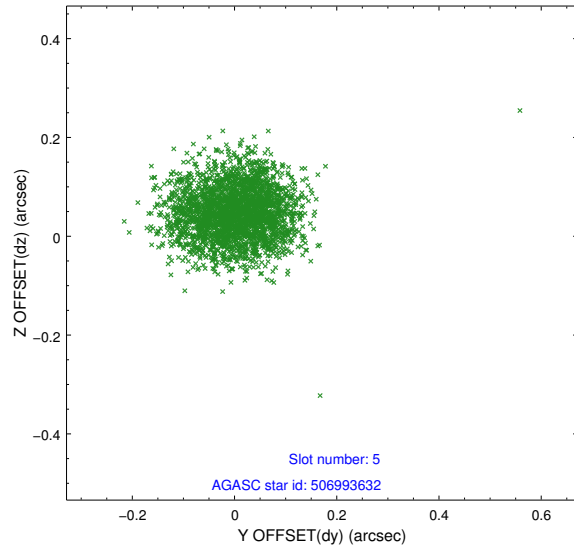
2.4.1 Slot 3



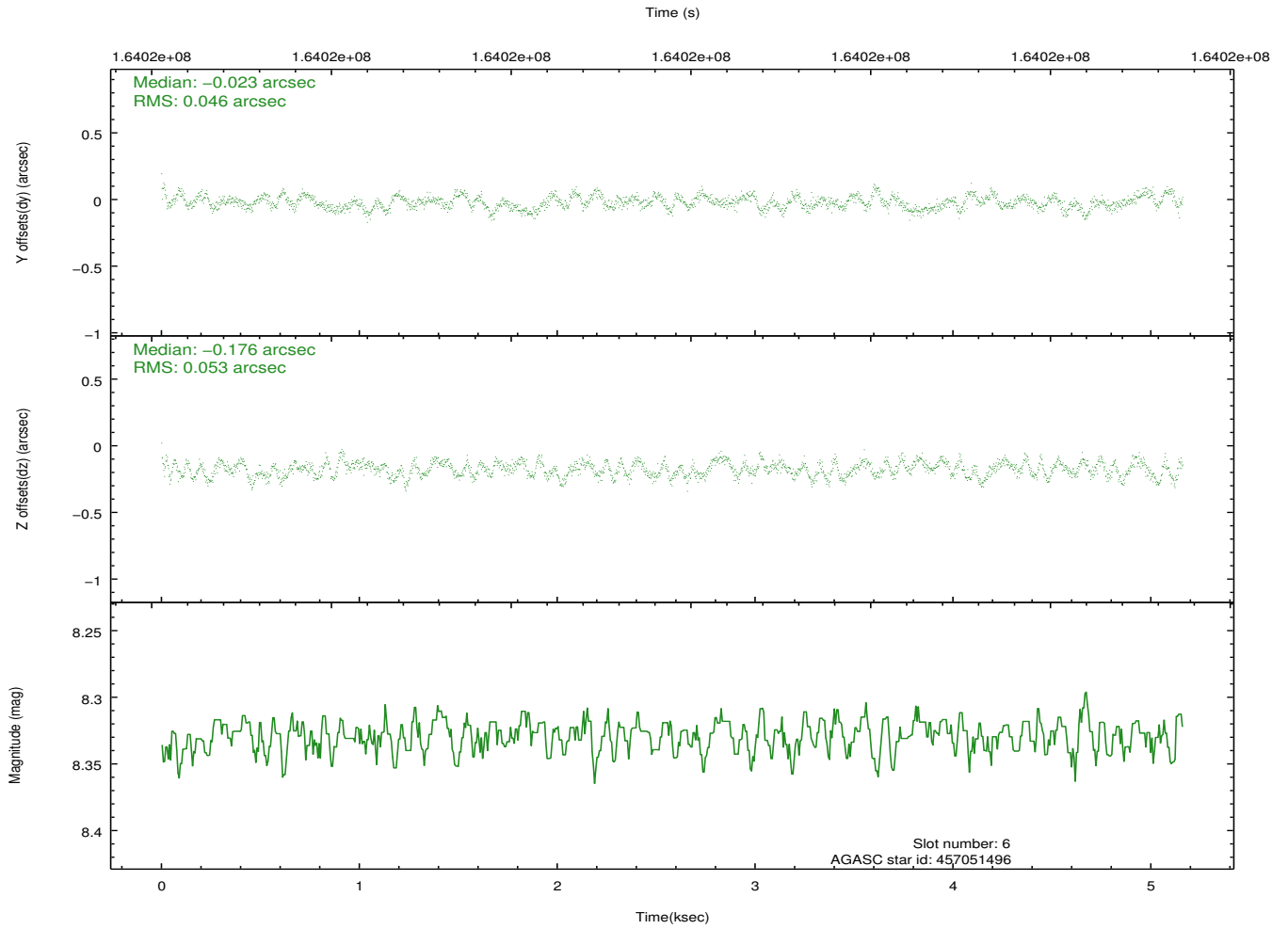
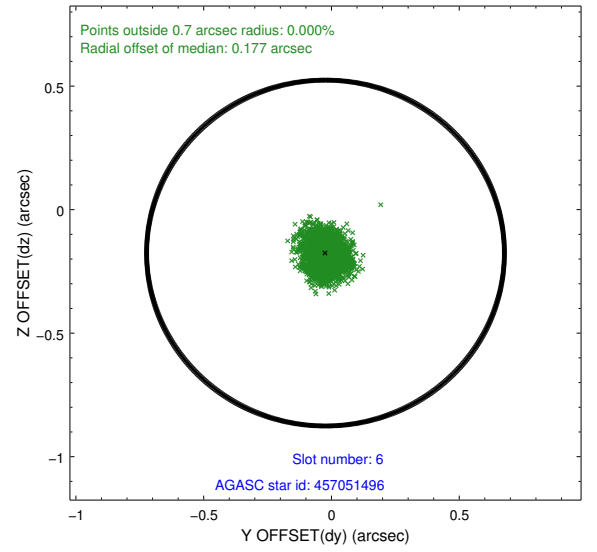
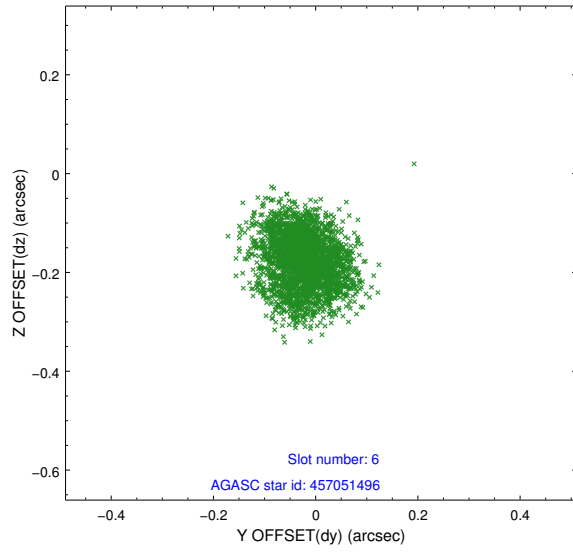
2.4.2 Slot 4



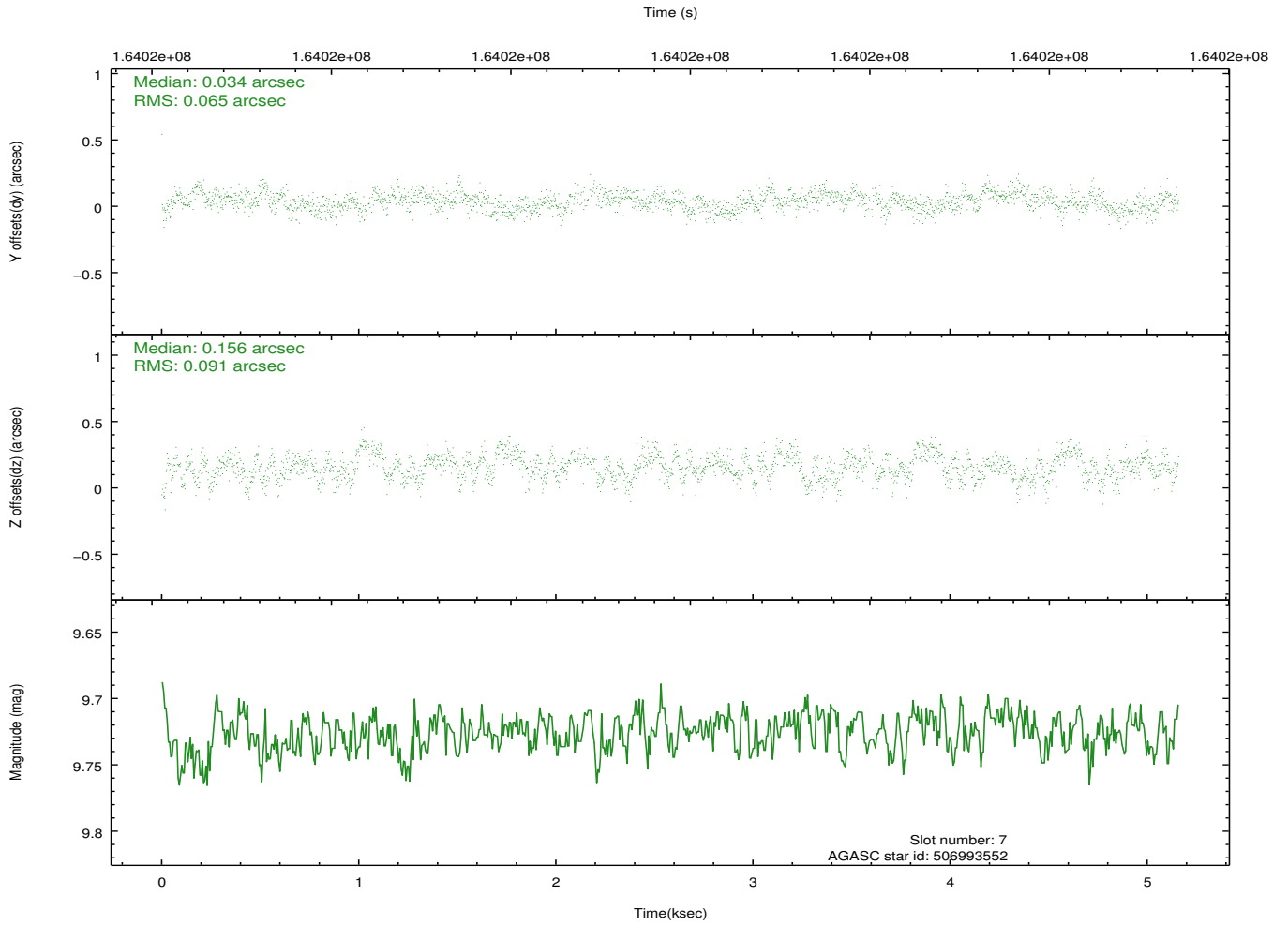
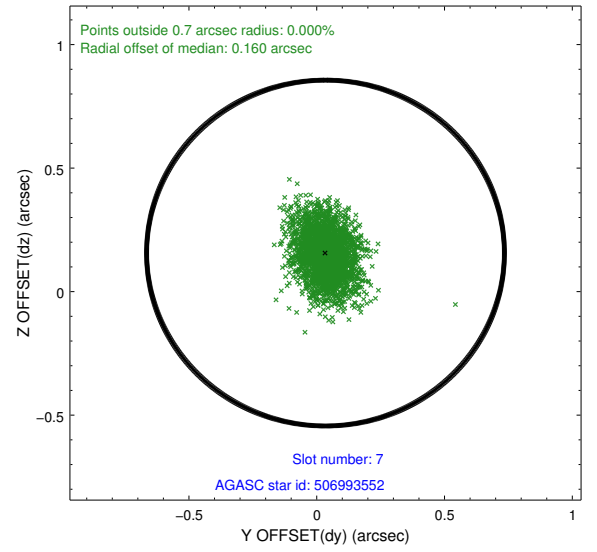
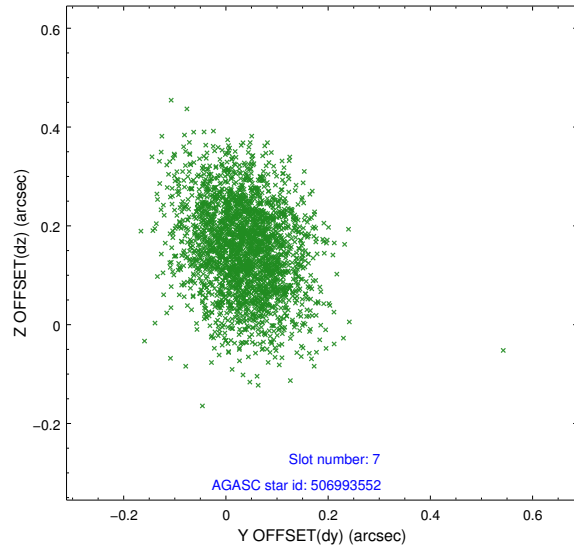
2.4.3 Slot 5



2.4.4 Slot 6

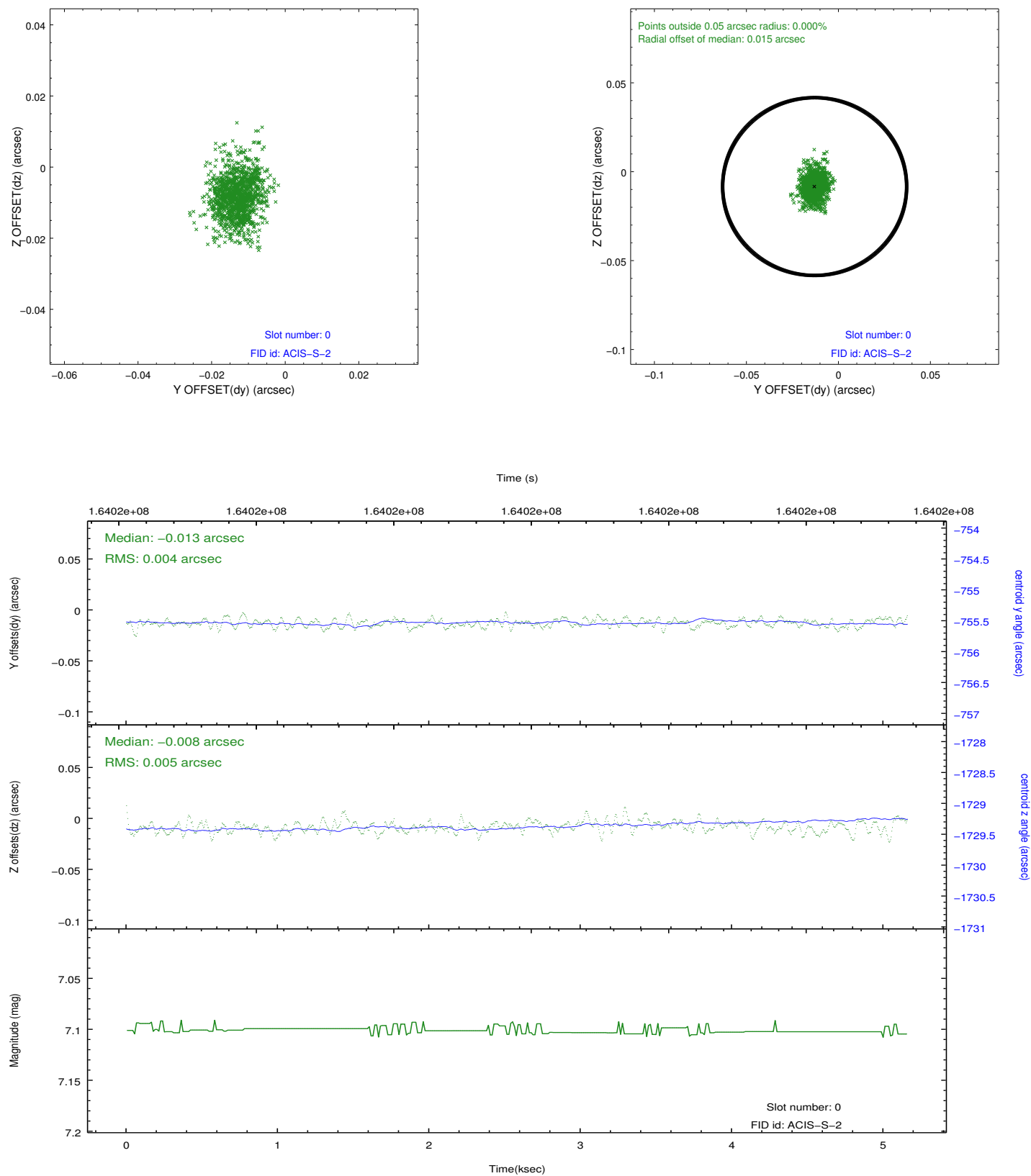


2.4.5 Slot 7

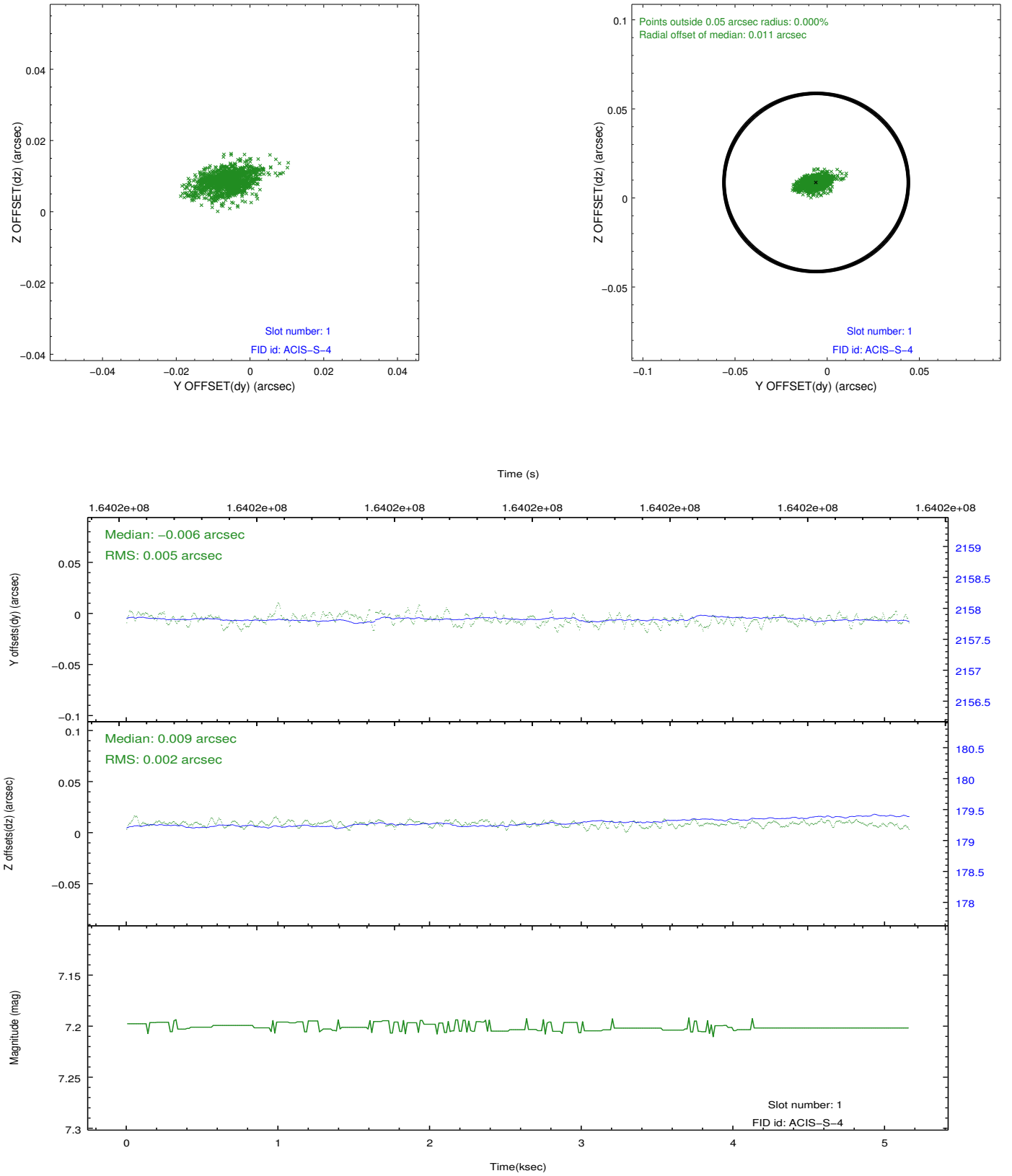


2.5 FID Slots

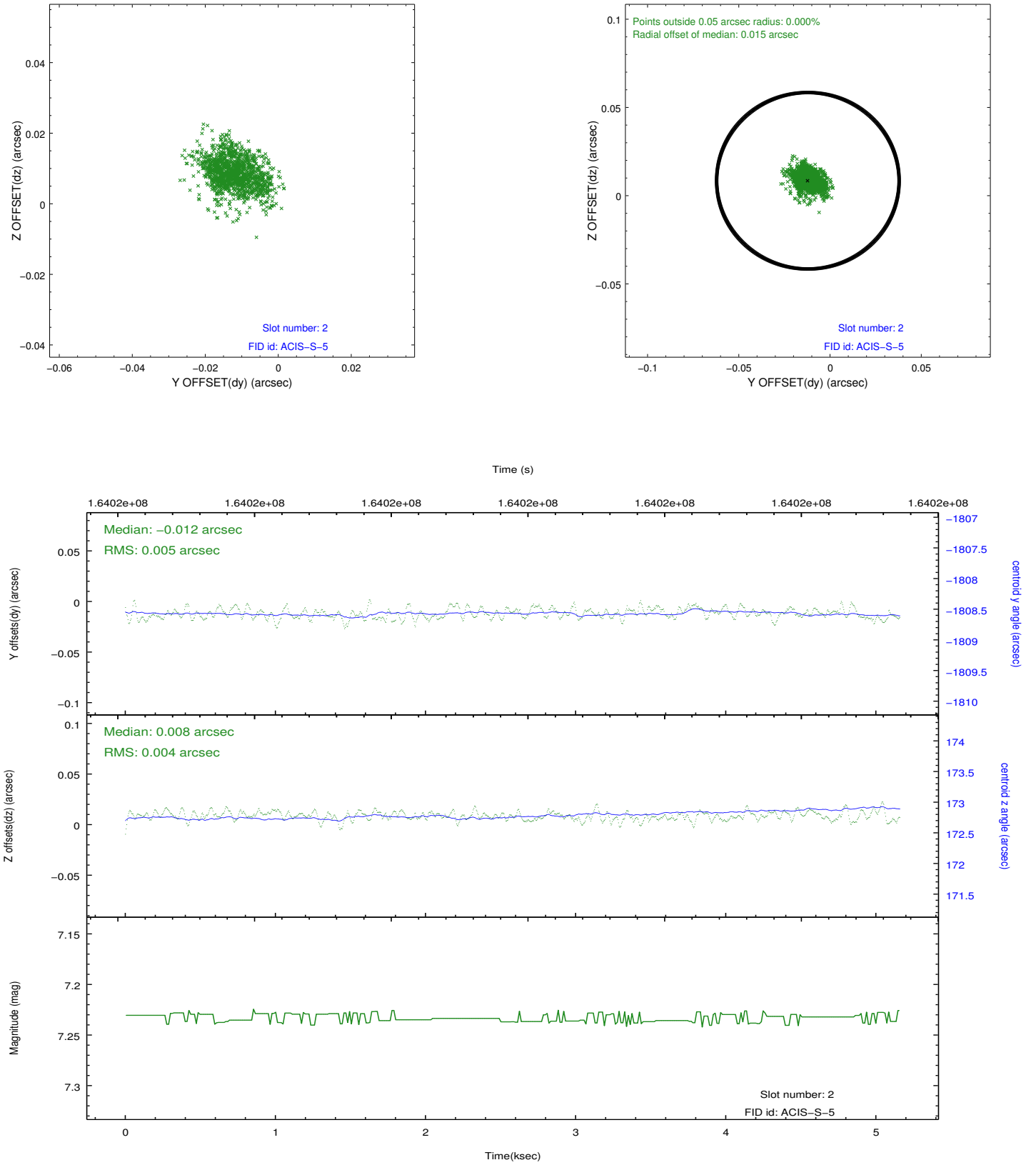
2.5.1 Slot 0



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)	2012.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.918

A.2 Comments