

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5137 - L2 Version 3
Chandra X-Ray Center

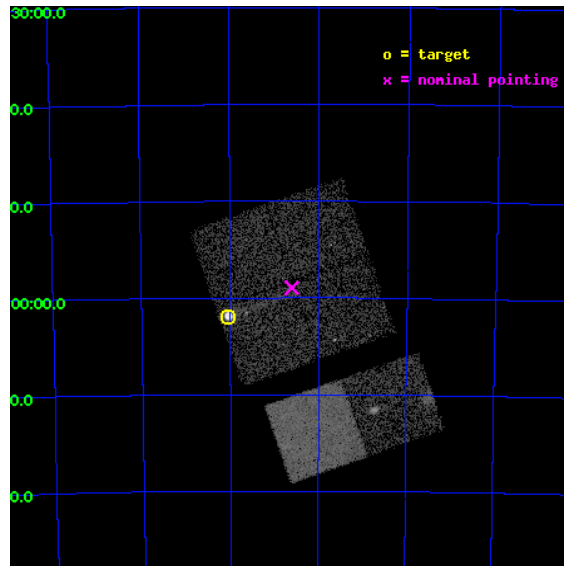
L2 Processing Date : Nov 30 2012

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

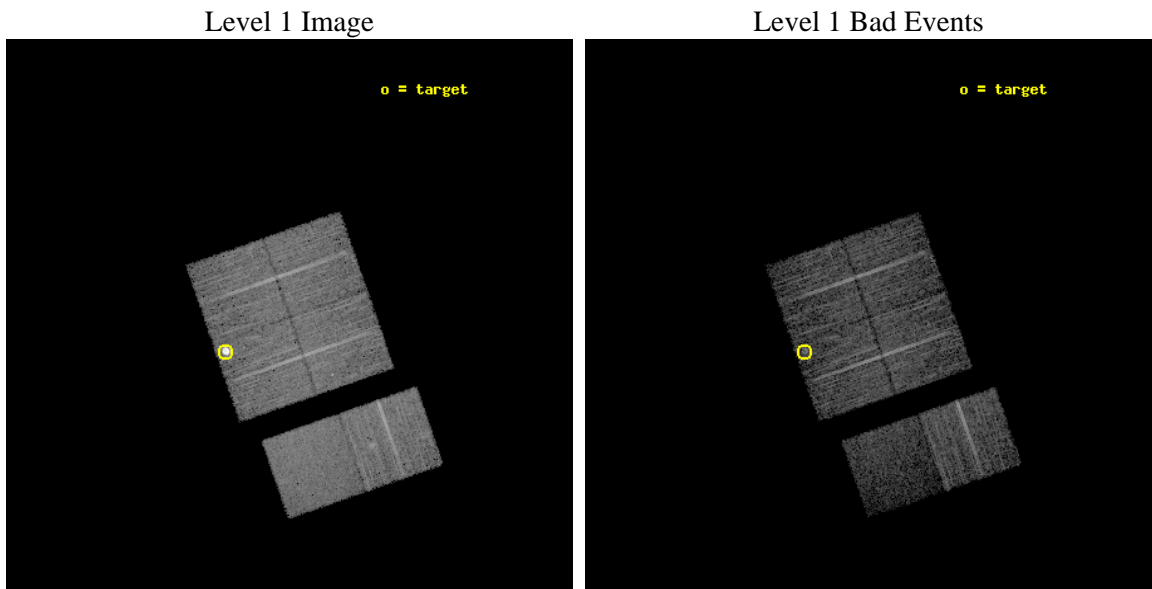
seq_num	590335	Sequence number
obs_id	5137	Observation id
title	AO5B ACIS-I Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I3,-120,-7,0.5,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.650850257067	Nominal RA [deg]
dec_nom	-71.982749491241	Nominal Dec [deg]
roll_nom	160.84855748585	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8140.7999696732	Sum of GTIs [s]
livetime	8037.7162586559	Livetime [s]
ontime0	8140.7999696732	Sum of GTIs [s]
ontime1	8140.7999696732	Sum of GTIs [s]
ontime2	8140.7999696732	Sum of GTIs [s]
ontime3	8140.7999696732	Sum of GTIs [s]
ontime6	8140.7999696732	Sum of GTIs [s]
ontime7	8140.7999696732	Sum of GTIs [s]
l2events	62021	Number of level 2 events



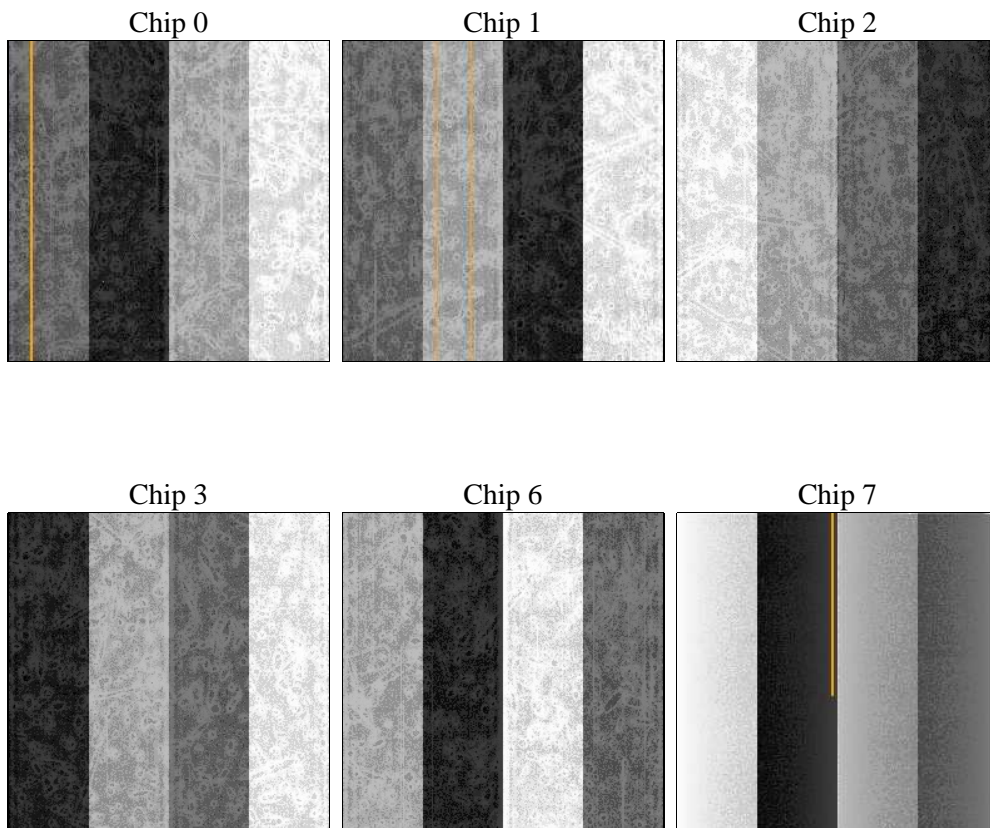
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8140.7999696732	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	8140.7999696732	Sum of GTIs [s]
date	2012-11-30T16:05:42	Date and time of file creation	ontime1	8140.7999696732	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8140.7999696732	Sum of GTIs [s]
			ontime3	8140.7999696732	Sum of GTIs [s]
			ontime6	8140.7999696732	Sum of GTIs [s]
			ontime7	8140.7999696732	Sum of GTIs [s]
			l1events	293613	Number of level 1 events

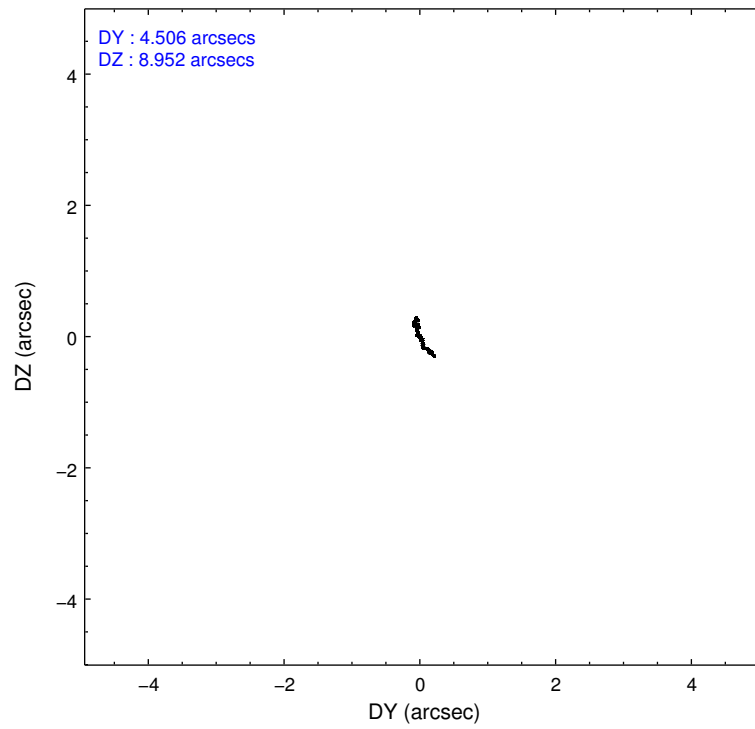
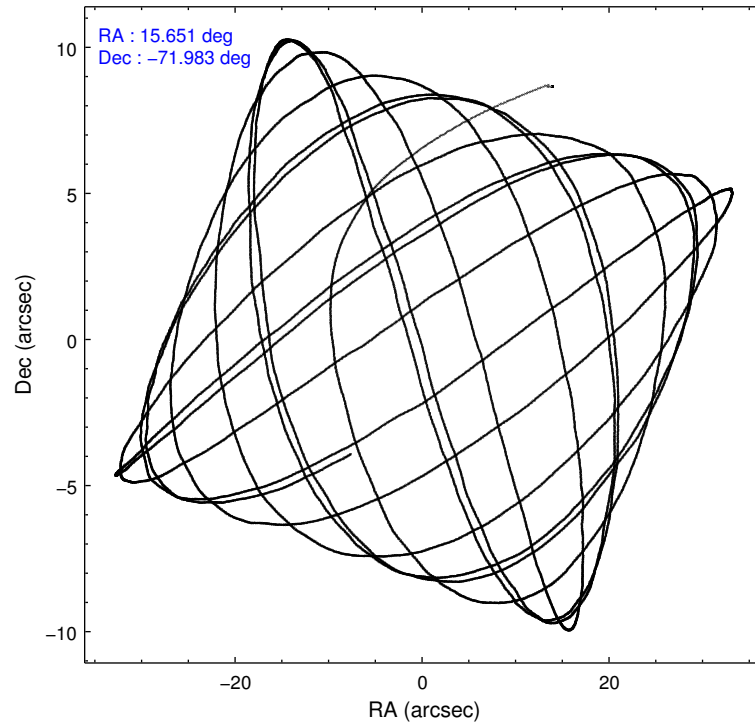
2.1.4 Events

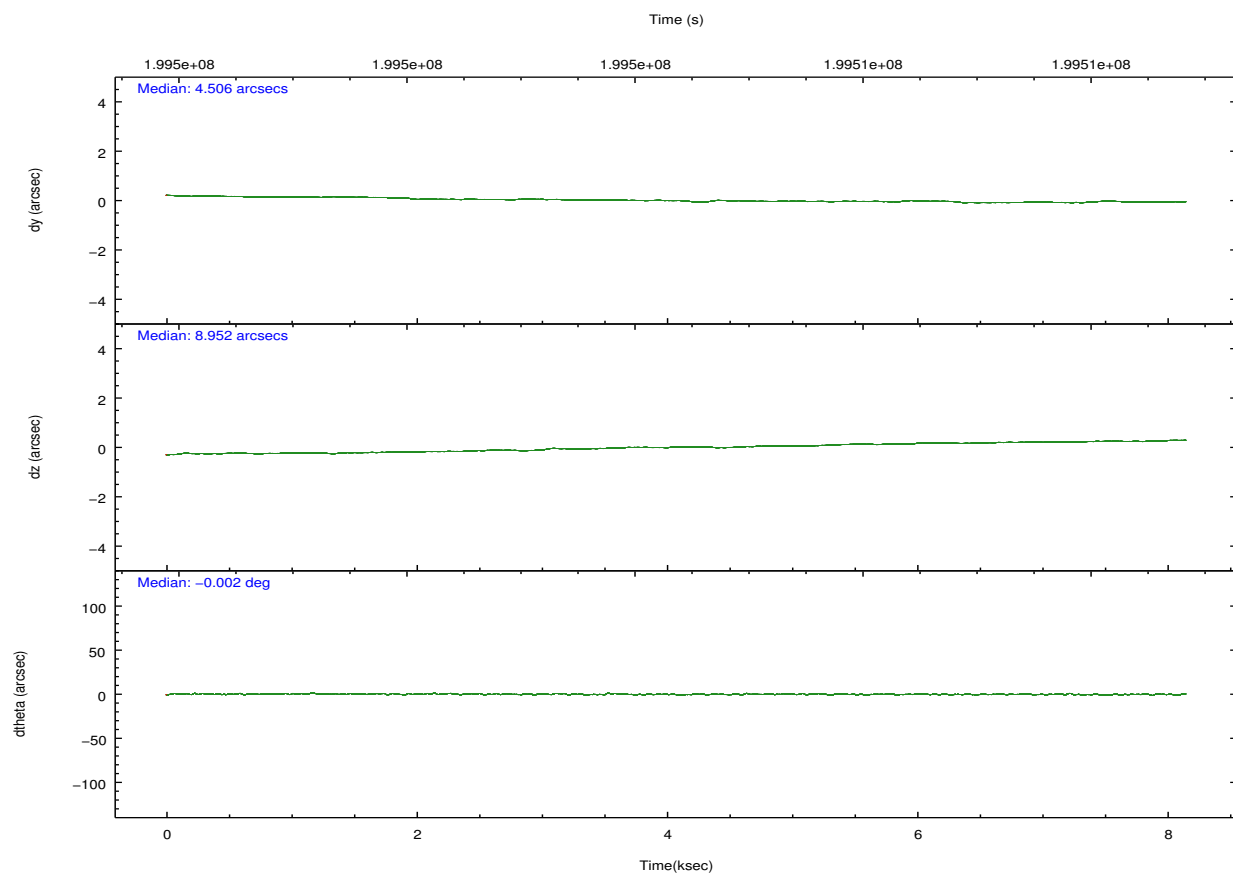
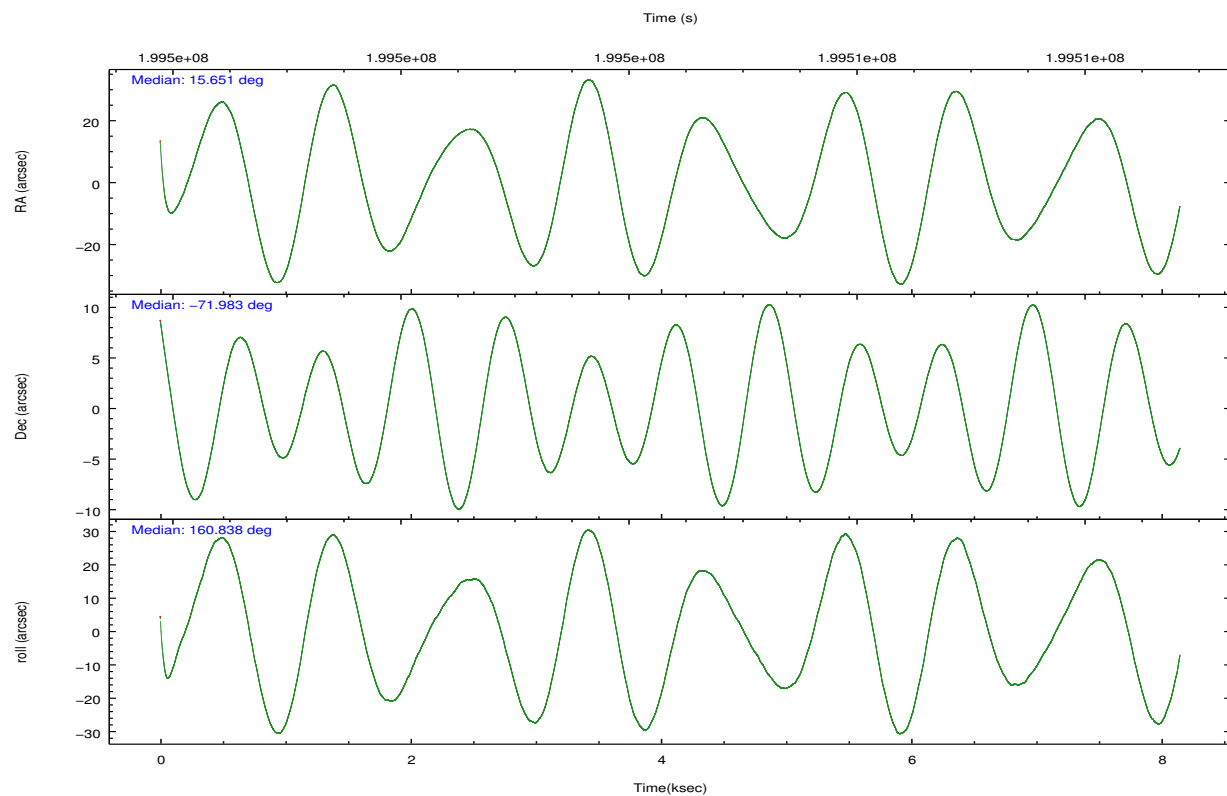
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	43129	42676	47060	68709	48837	43202	grade 0 events	1802	1896	1963	21720	2547	2123
rejected events	38490	37956	42347	42094	43454	22607		4%	4%	4%	31%	5%	4%
rejected %	89%	88%	89%	61%	88%	52%	grade 1 events	26	19	28	181	31	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	1051	1004	1081	2544	1080	4472
								2%	2%	2%	3%	2%	10%
							grade 3 events	565	545	503	910	519	2177
								1%	1%	1%	1%	1%	5%
							grade 4 events	504	574	530	986	499	2102
								1%	1%	1%	1%	1%	4%
							grade 5 events	1443	1455	1339	1601	1584	4609
								3%	3%	2%	2%	3%	10%
							grade 6 events	851	918	789	986	903	10301
								1%	2%	1%	1%	1%	23%
							grade 7 events	36887	36265	40827	39781	41674	17380
								85%	84%	86%	57%	85%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.737872	15.65085025706674	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.977449	-71.98274949124129	Alternating exposures requested	N	N
[deg] Pointing Roll	160.722632	160.8485574858474	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	197164864.184000	197164864.184000			
[s] Window stop time (MET)	199670464.184000	199670464.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	199500430.184000	199499264.11965			
Observation start date	2004-04-28T00:46:06	2004-04-28T00:27:44			
[s] Observation end time (MET)	199508430.184000	199508563.94506			
Observation end date	2004-04-28T02:59:26	2004-04-28T03:02:43			
Read mode	TIMED	TIMED			

2.3 Aspect



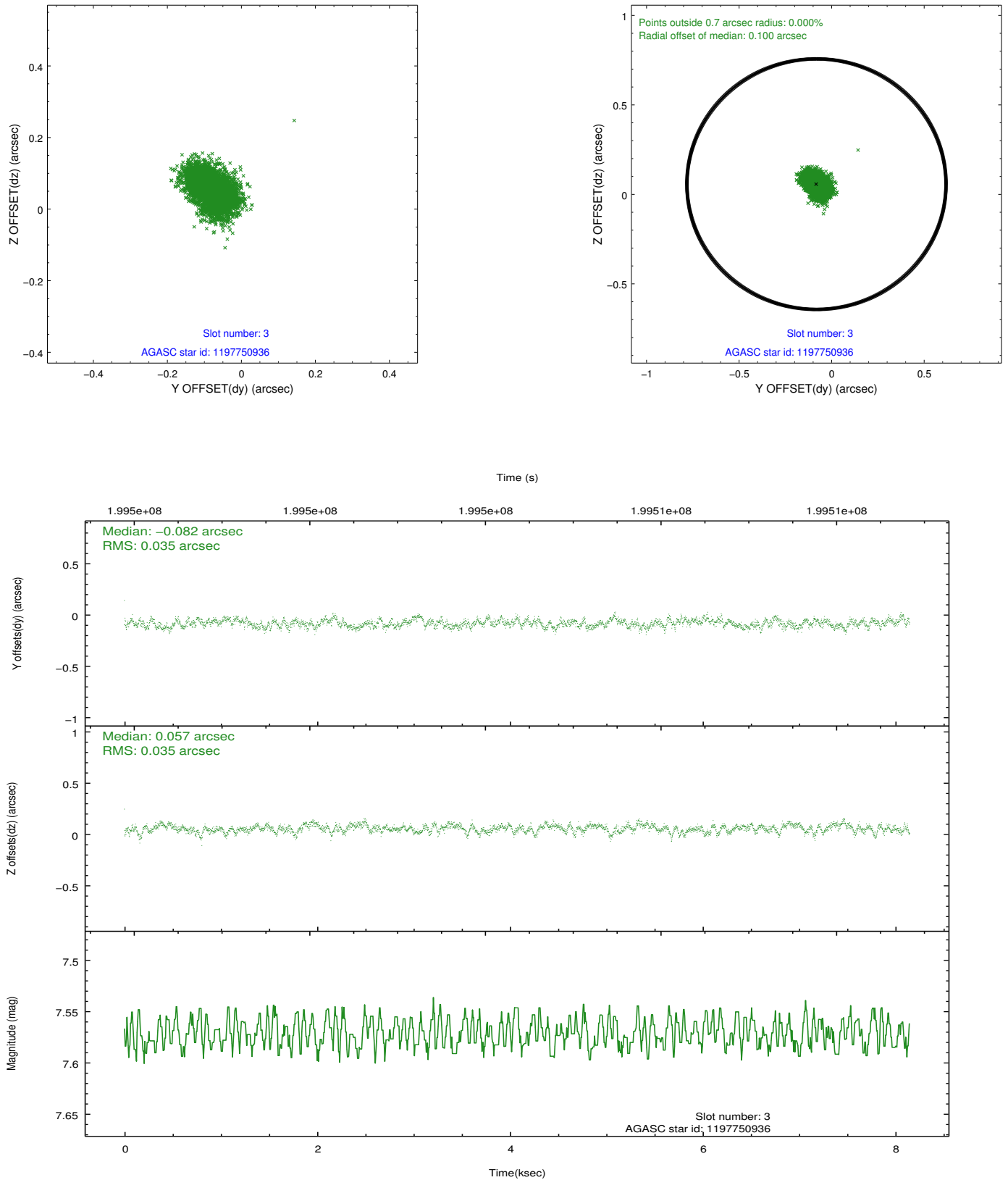


Slot Statistics

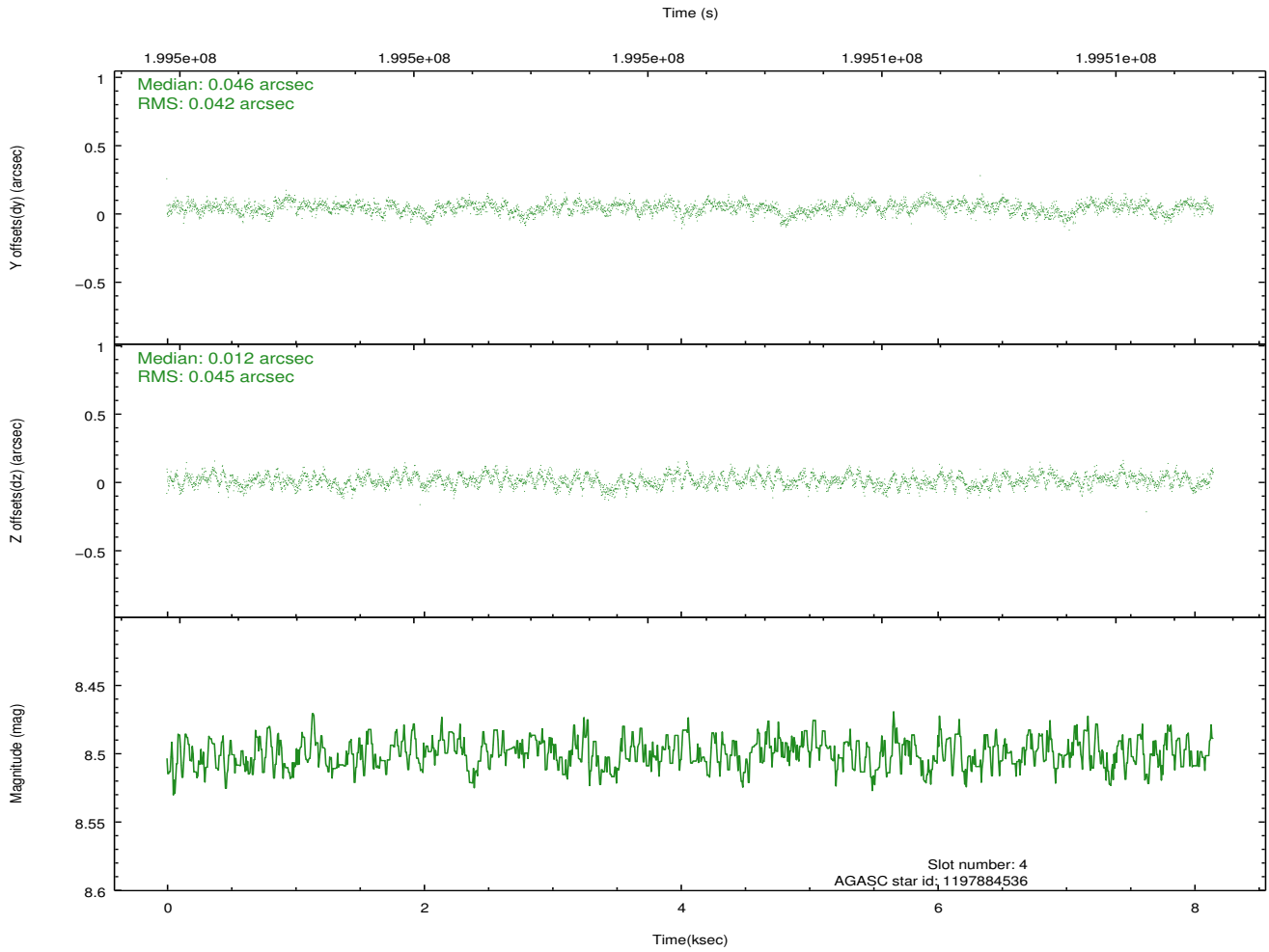
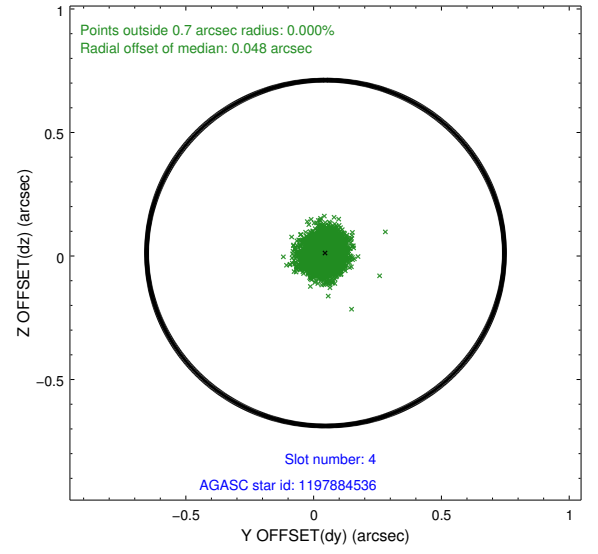
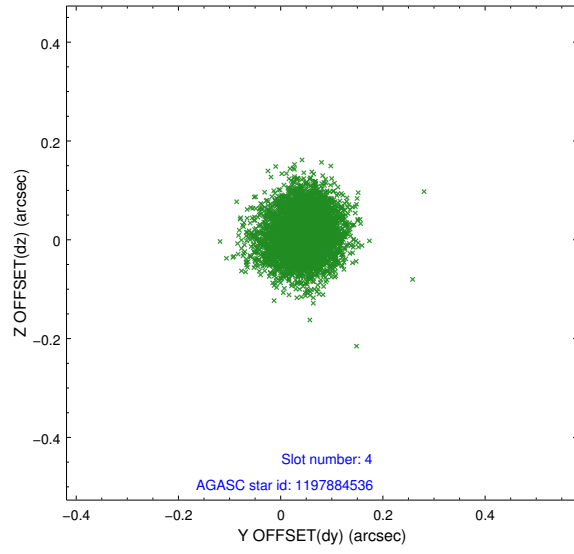
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1988	0.023	0.033	0.007	0.012	0.000000	0.000000	935.25	-832.35
1	FID	ACIS-I-5	7.23	1988	-0.180	0.045	0.007	0.011	0.000000	0.000000	-1812.69	1064.79
2	FID	ACIS-I-6	7.25	1988	0.066	-0.008	0.007	0.012	0.000000	0.000000	400.08	1710.03
3	GUIDE	1197750936	7.57	3976	-0.082	0.057	0.052	0.086	15.387940	-71.549550	884.82	-1320.83
4	GUIDE	1197884536	8.50	3976	0.046	0.012	0.065	0.103	17.160729	-71.835289	-1343.79	-992.89
5	GUIDE	1197884712	8.30	3975	0.062	-0.022	0.056	0.089	16.087398	-72.252690	-689.79	809.49
6	GUIDE	1197885328	7.23	3976	-0.010	0.055	0.065	0.102	16.283090	-71.733943	-292.33	-1027.94
7	GUIDE	1198190968	10.01	3971	-0.017	-0.102	0.132	0.217	15.749622	-72.545972	-687.93	1927.40

2.4 Star Slots

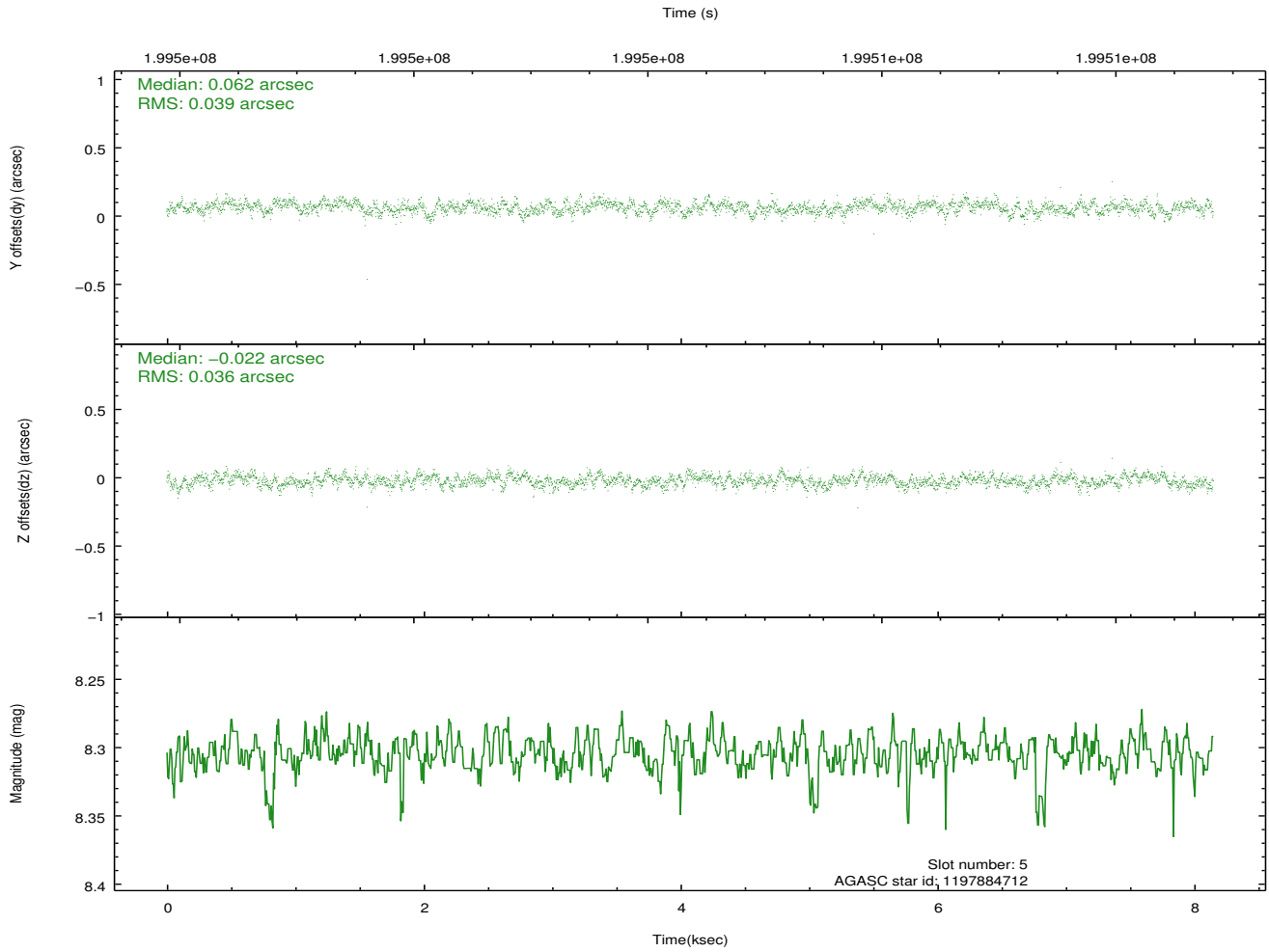
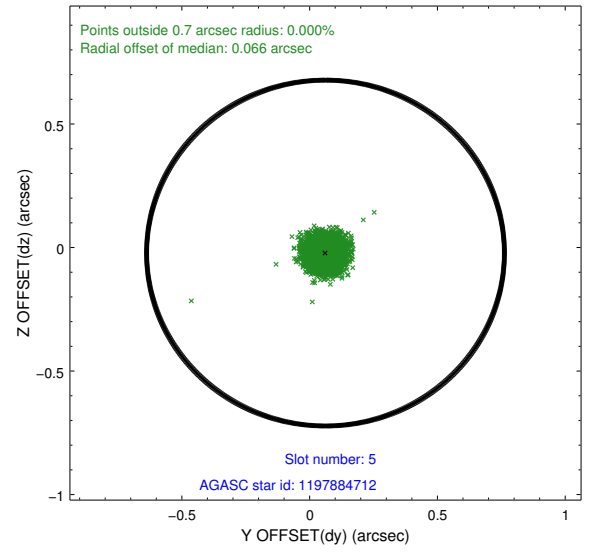
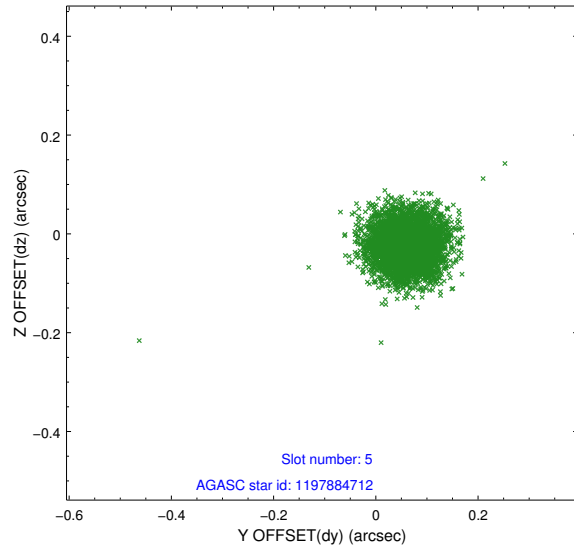
2.4.1 Slot 3



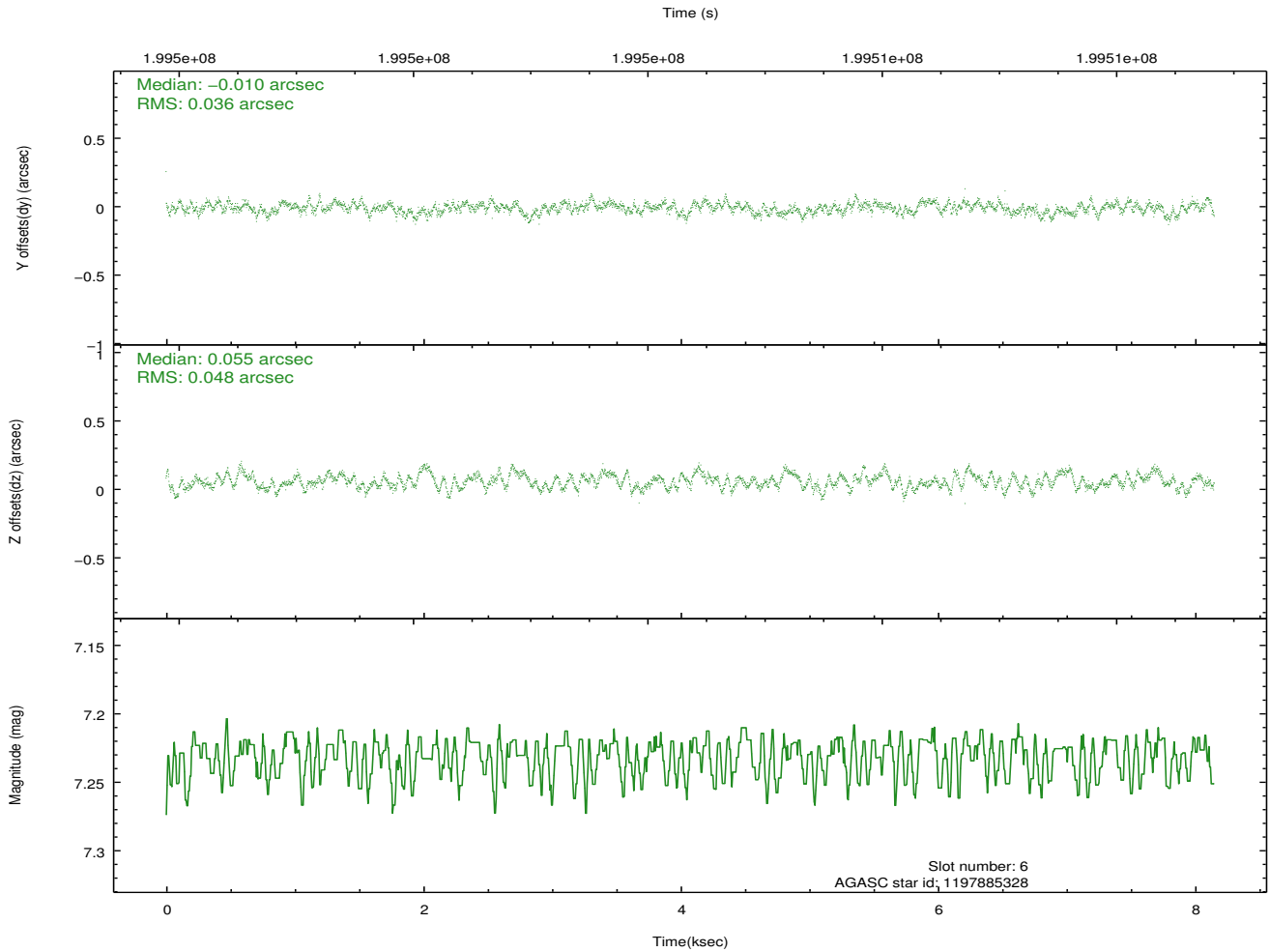
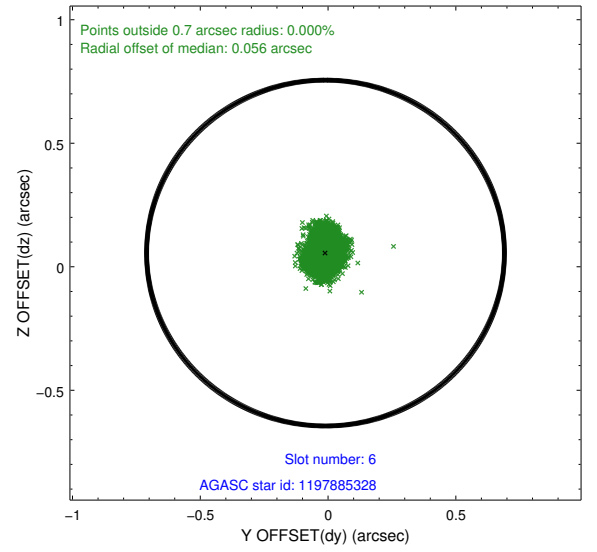
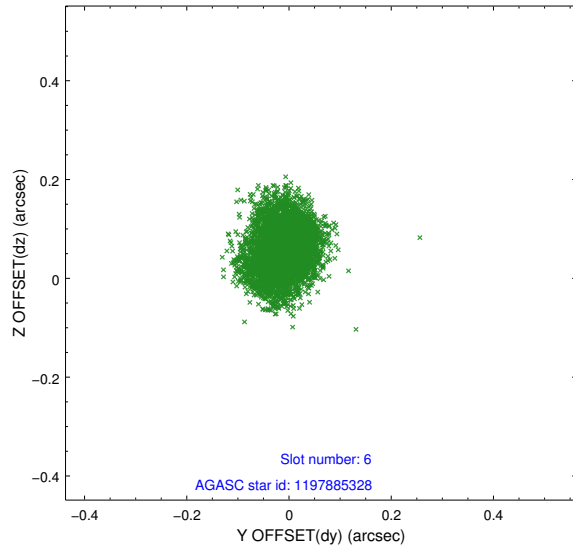
2.4.2 Slot 4



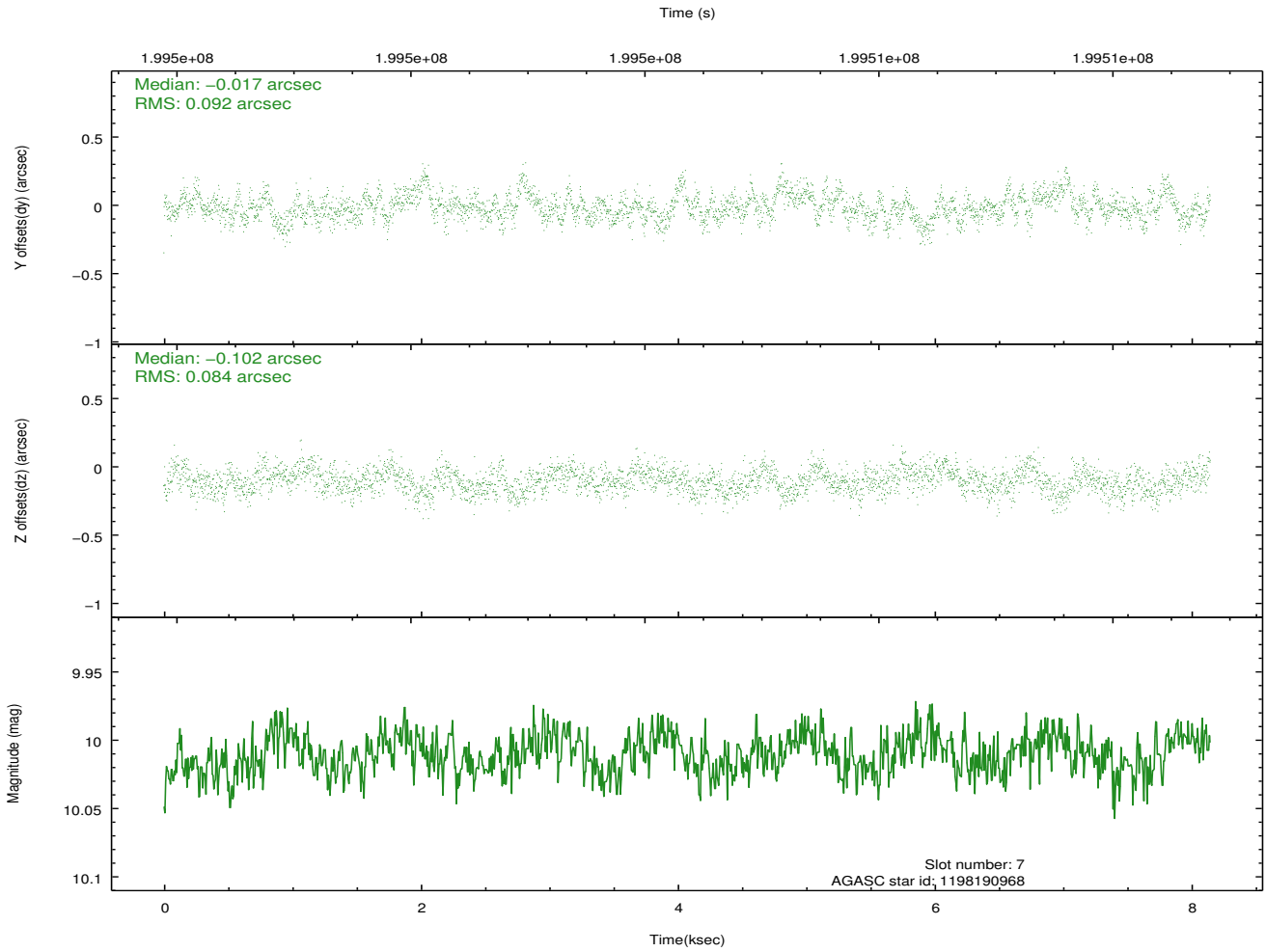
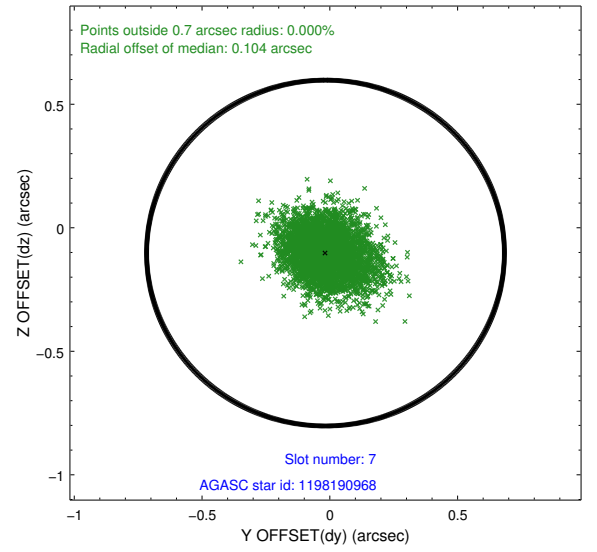
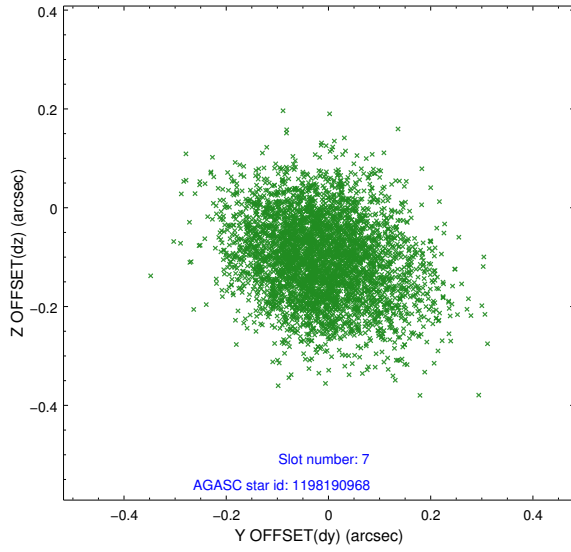
2.4.3 Slot 5



2.4.4 Slot 6

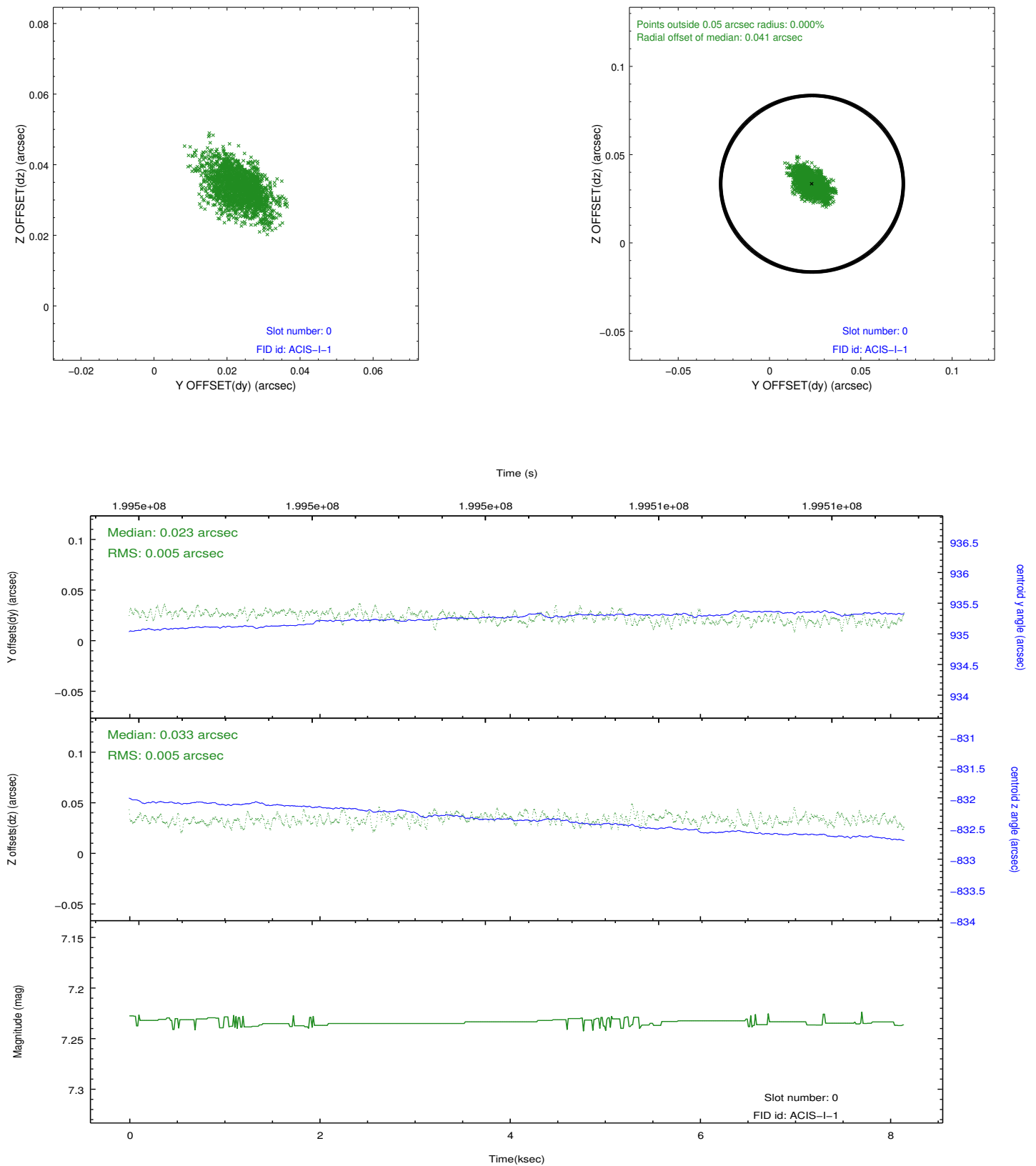


2.4.5 Slot 7

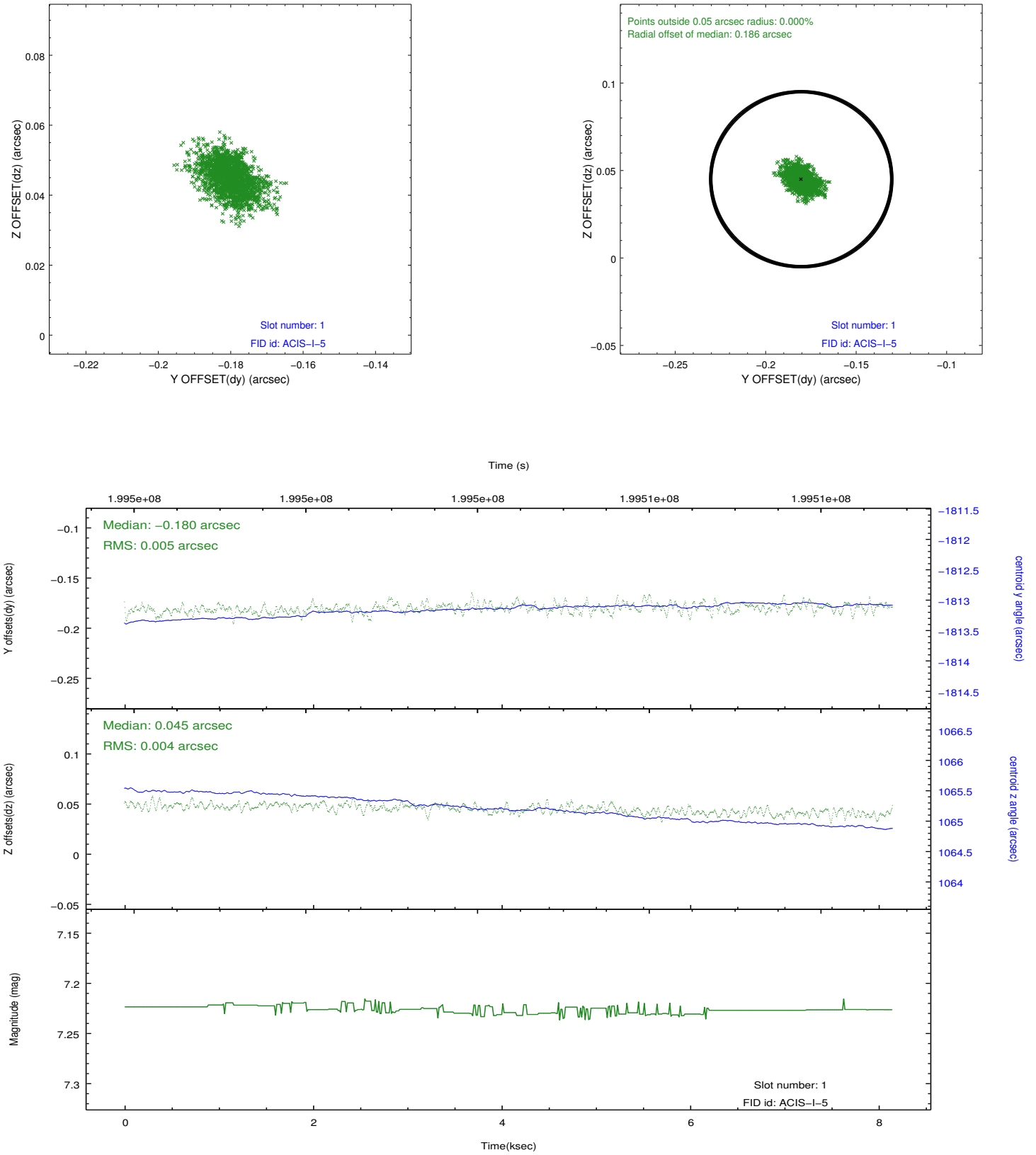


2.5 FID Slots

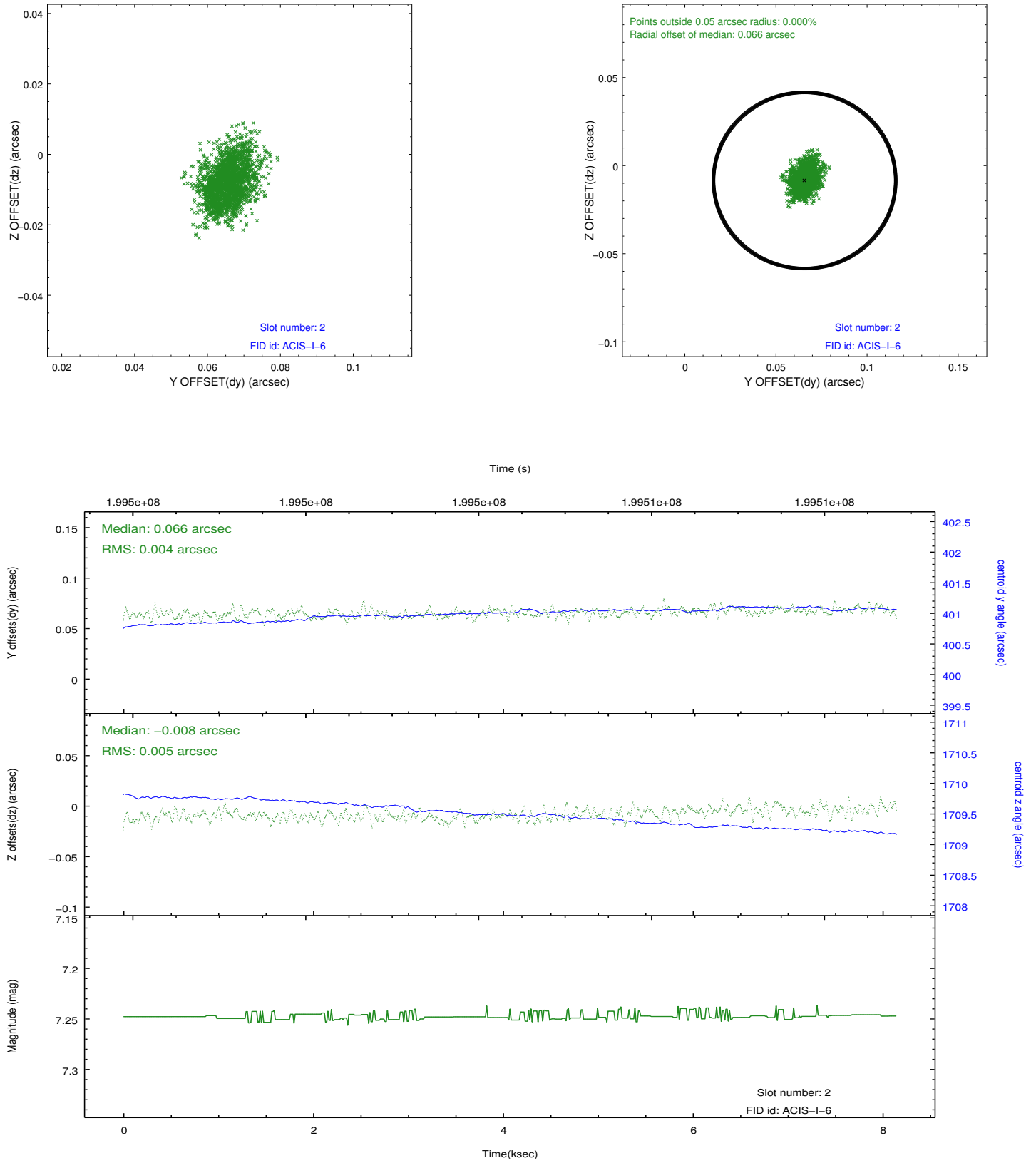
2.5.1 Slot 0



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)	2012.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.14

A.2 Comments

Window constraint satisfied.