

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10261 - L2 Version 2
Chandra X-Ray Center

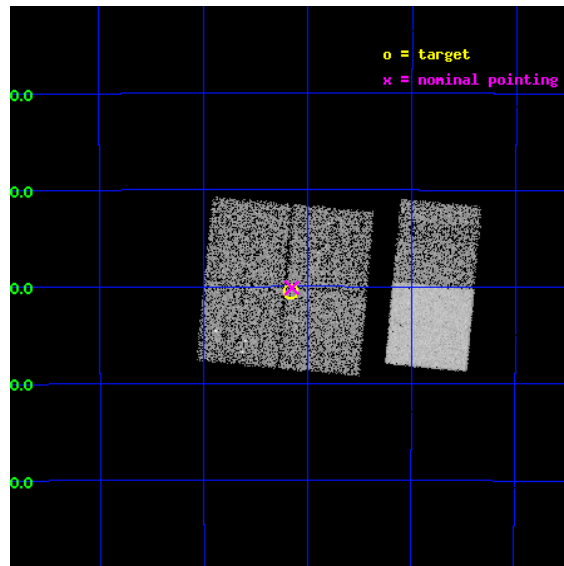
L2 Processing Date : May 28 2012

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

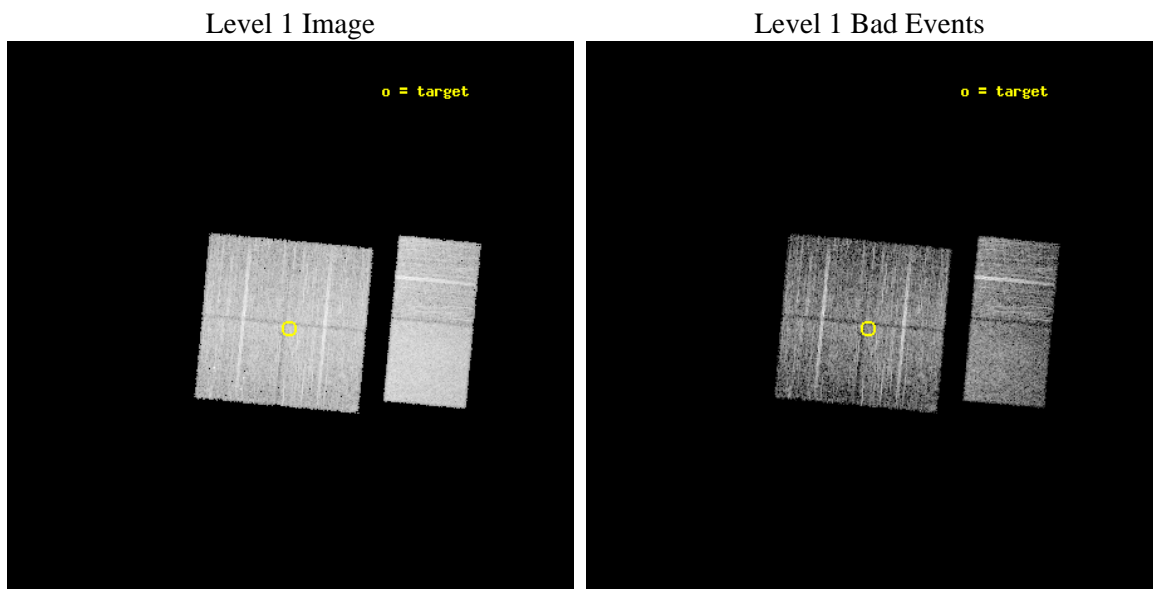
seq_num	701804	Sequence number
obs_id	10261	Observation id
title	Zeroing in on the sources of Ultrahigh Energy Cosmic Rays	Proposal
observer	Prof. Glennys Farrar	Principal investigator
object	IC 4523	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	226.292083	Observer's specified target RA [deg]
dec_targ	-43.509694	Observer's specified target Dec [deg]
ra_nom	226.28772213604	Nominal RA [deg]
dec_nom	-43.502314625695	Nominal Dec [deg]
roll_nom	95.36176232992	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5135.9999809265	Sum of GTIs [s]
livetime	5070.9648566401	Livetime [s]
ontime0	5135.9999809265	Sum of GTIs [s]
ontime1	5135.9999809265	Sum of GTIs [s]
ontime2	5135.9999809265	Sum of GTIs [s]
ontime3	5135.9999809265	Sum of GTIs [s]
ontime6	5132.7590106726	Sum of GTIs [s]
ontime7	5135.9999809265	Sum of GTIs [s]
l2events	58808	Number of level 2 events



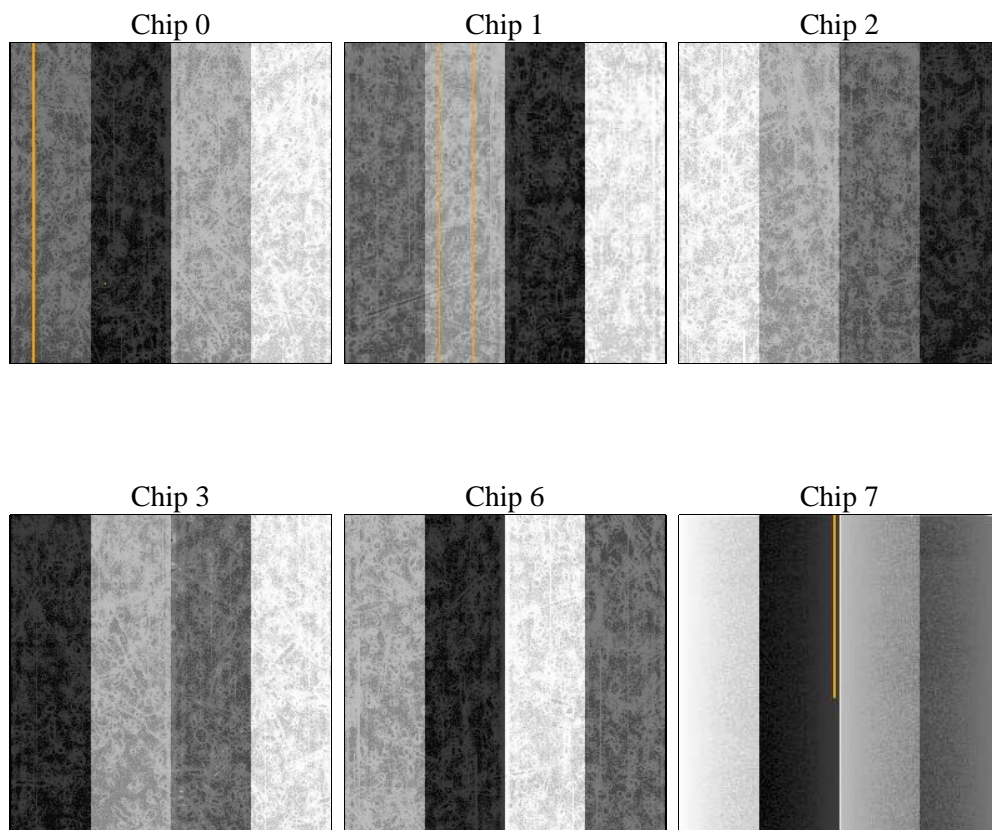
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5135.9999809265	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	5135.9999809265	Sum of GTIs [s]
date	2012-05-28T11:45:07	Date and time of file creation	ontime1	5135.9999809265	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5135.9999809265	Sum of GTIs [s]
			ontime3	5135.9999809265	Sum of GTIs [s]
			ontime6	5132.7590106726	Sum of GTIs [s]
			ontime7	5135.9999809265	Sum of GTIs [s]
			l1events	352458	Number of level 1 events

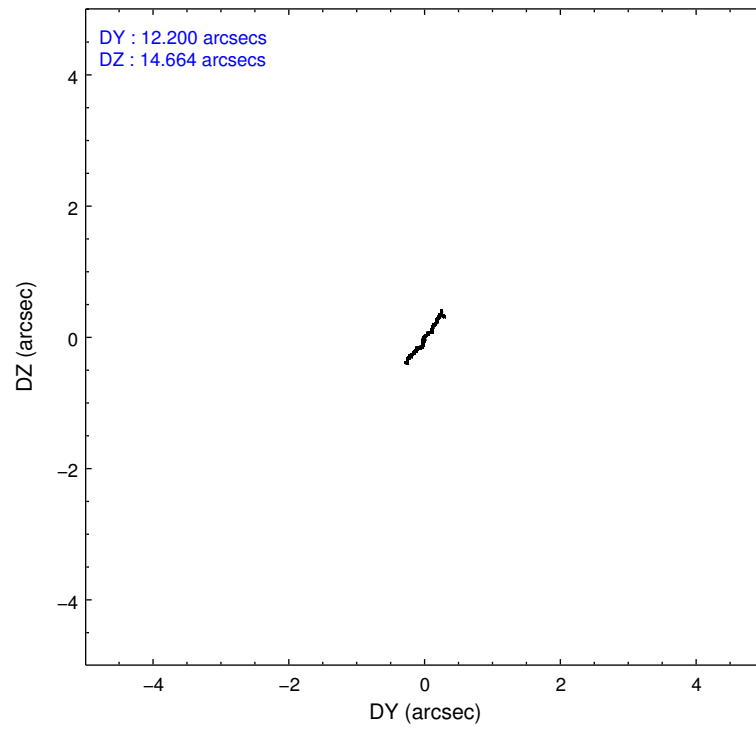
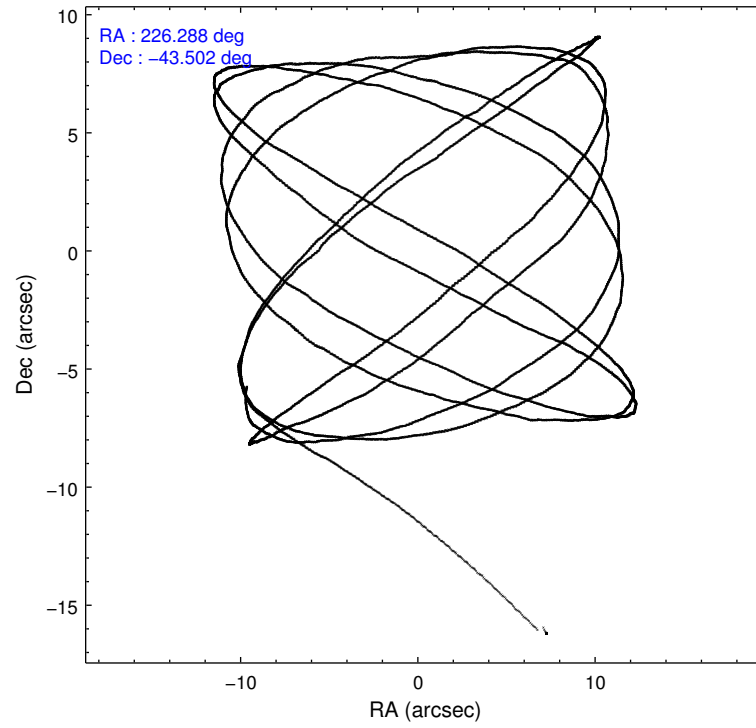
2.1.4 Events

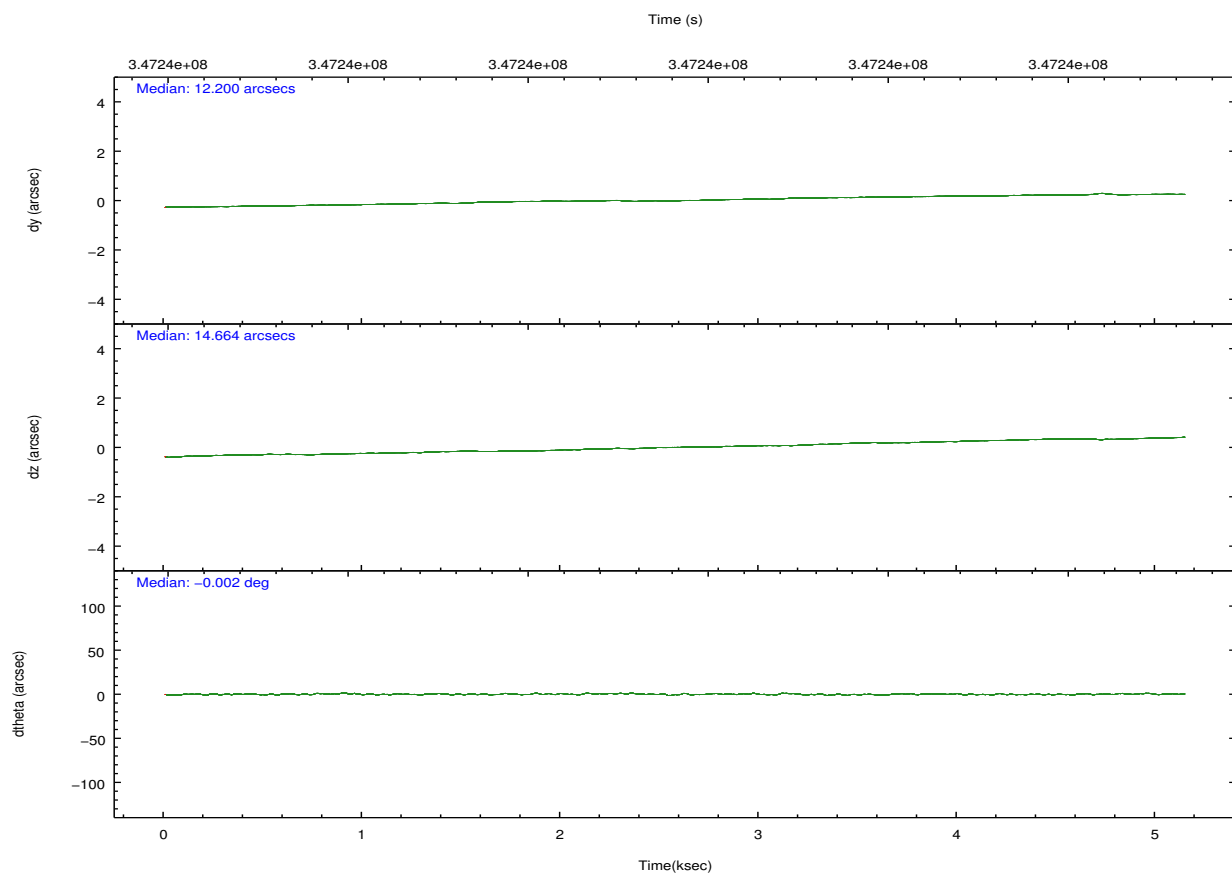
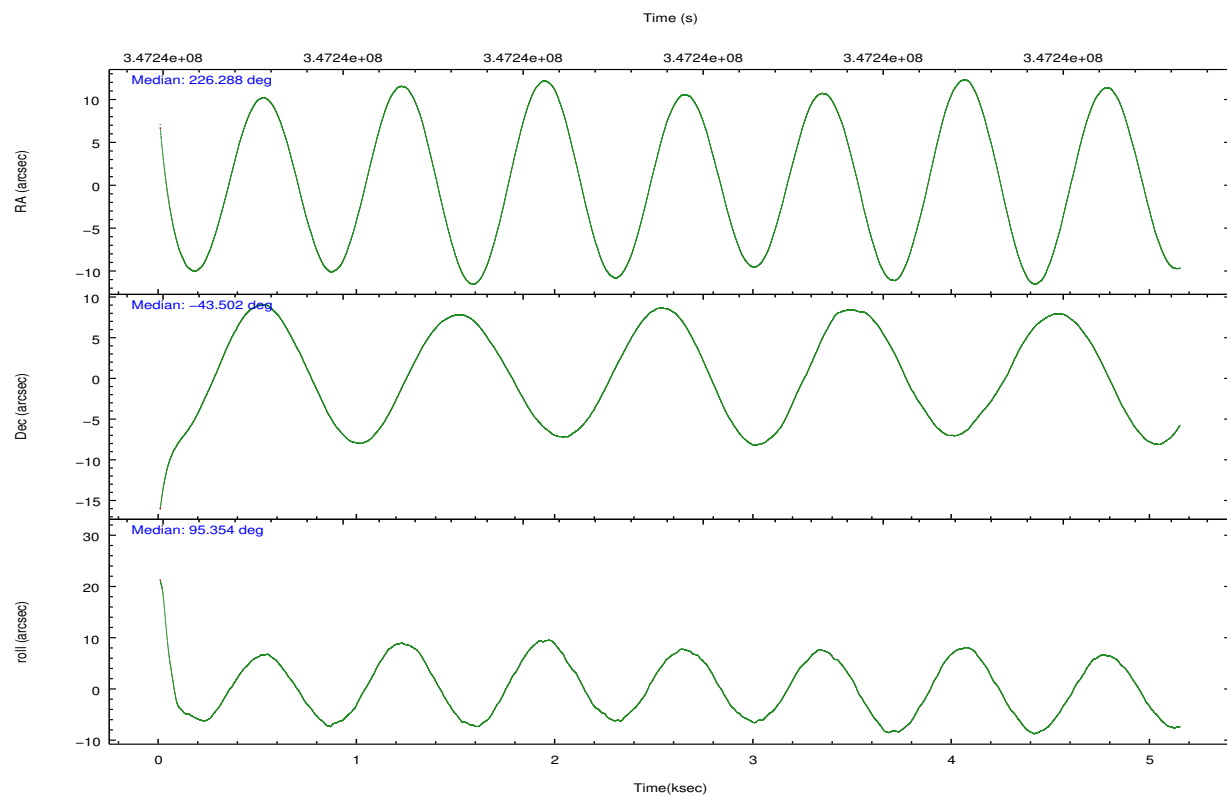
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	50995	52050	56319	55452	58894	78748	grade 0 events	3163	3314	3250	3294	2824	2860
rejected events	44348	44605	49794	48835	52306	48595		6%	6%	5%	5%	4%	3%
rejected %	86%	85%	88%	88%	88%	61%	grade 1 events	32	31	42	43	37	83
								0%	0%	0%	0%	0%	0%
							grade 2 events	1627	1910	1470	1352	1581	6796
								3%	3%	2%	2%	2%	8%
							grade 3 events	637	690	612	649	643	2785
								1%	1%	1%	1%	1%	3%
							grade 4 events	618	703	593	619	626	2748
								1%	1%	1%	1%	1%	3%
							grade 5 events	2365	2509	2199	2659	2695	7362
								4%	4%	3%	4%	4%	9%
							grade 6 events	1211	1511	1156	1232	1460	17578
								2%	2%	2%	2%	2%	22%
							grade 7 events	41342	41382	46997	45604	49028	38536
								81%	79%	83%	82%	83%	48%

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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	226.309869	226.287722136041	CCD I2 on	Y	Y
[deg] Pointing Dec	-43.524597	-43.50231462569518	CCD I3 on	Y	Y
[deg] Pointing Roll	95.168299	95.36176232991977	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	347238396.184000	347237124.61423	CCD S5 on	N	N
Observation start date	2009-01-01T23:05:30	2009-01-01T22:45:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	347243396.184000	347244765.98961	On-chip summing requested	N	N
Observation end date	2009-01-02T00:28:50	2009-01-02T00:52:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



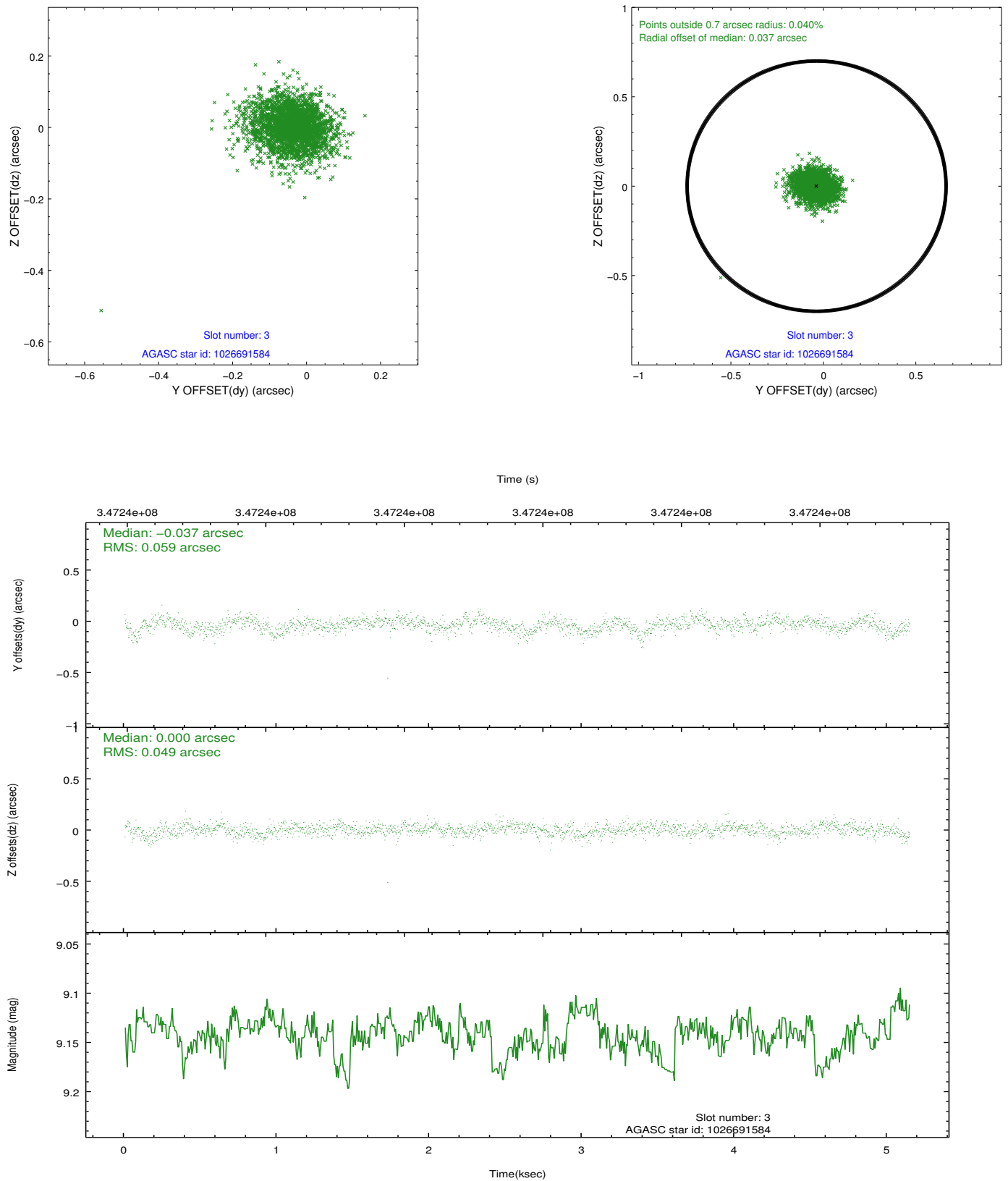


Slot Statistics

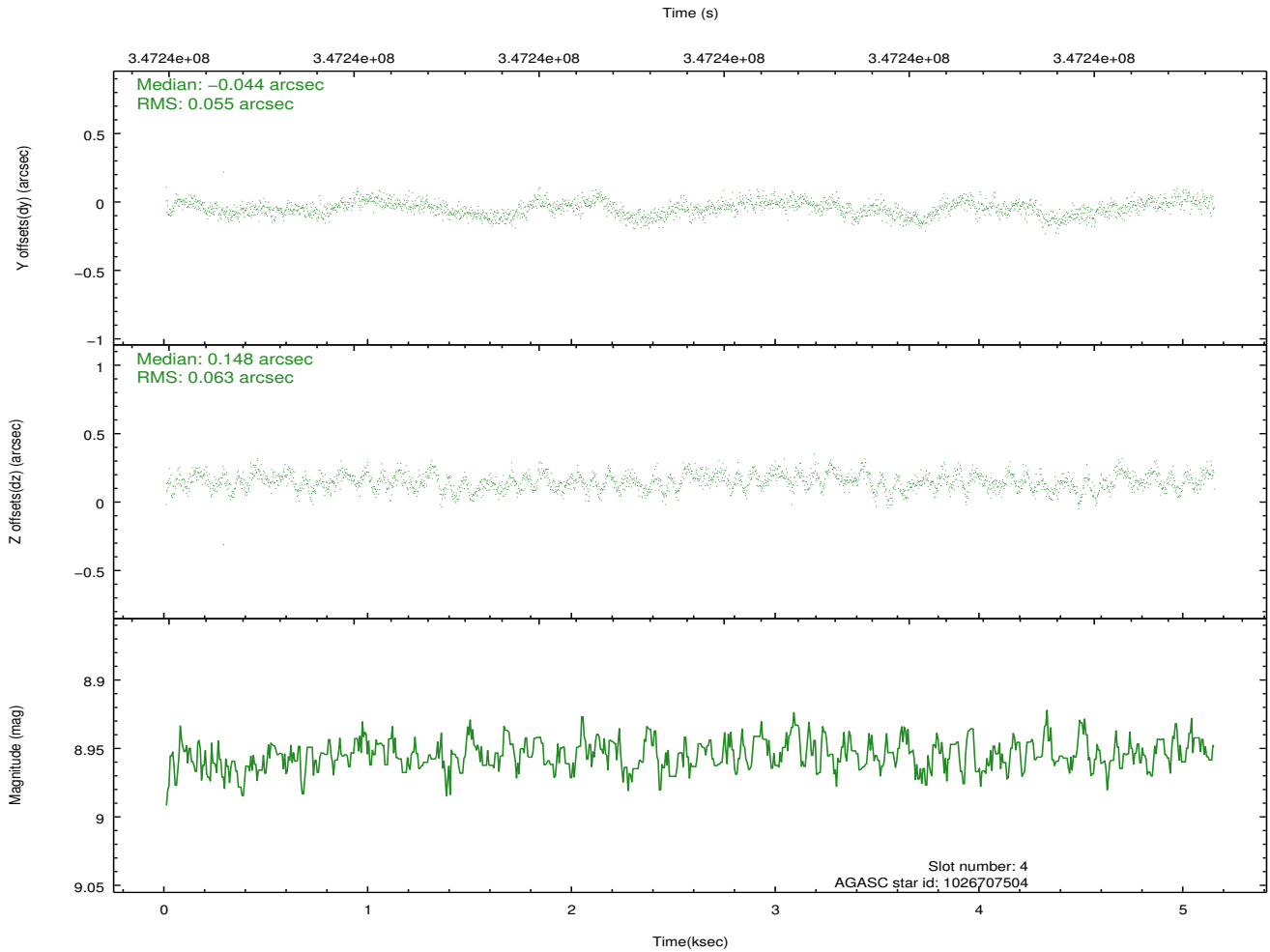
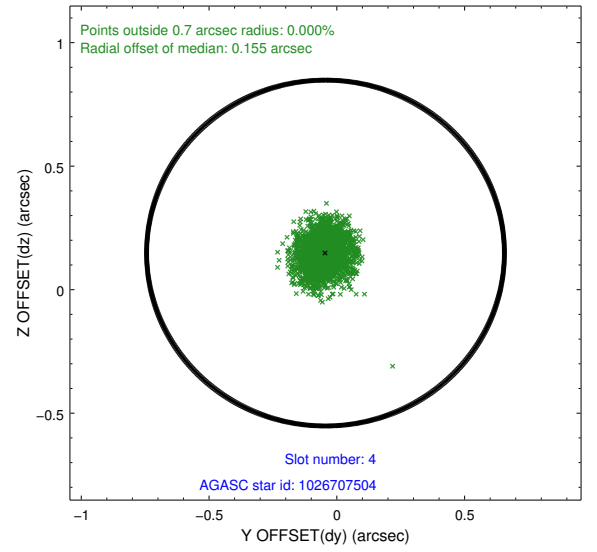
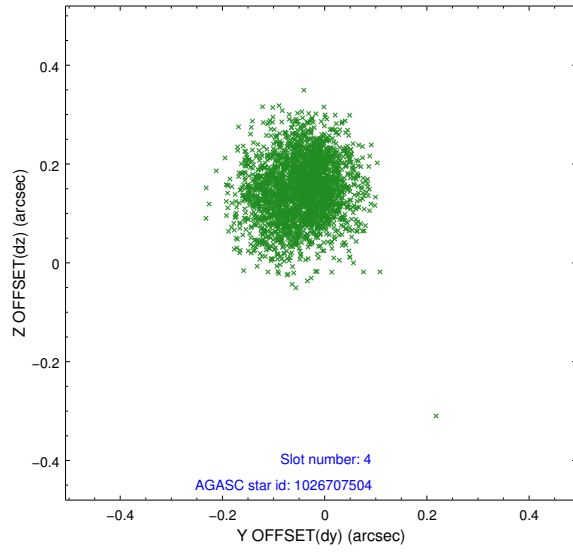
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	1255	-0.024	0.028	0.014	0.025	0.000000	0.000000	927.30	-838.24
1	FID	ACIS-I-4	6.99	1255	0.149	0.017	0.012	0.018	0.000000	0.000000	2148.17	1060.97
2	FID	ACIS-I-5	7.04	1255	-0.224	0.027	0.011	0.019	0.000000	0.000000	-1819.39	1060.18
3	GUIDE	1026691584	9.14	2507	-0.037	0.000	0.078	0.133	226.471802	-43.307452	740.59	-492.70
4	GUIDE	1026707504	8.96	2507	-0.044	0.148	0.089	0.142	227.140962	-43.550302	-297.14	-2150.32
5	GUIDE	1026707704	8.78	2508	0.059	-0.104	0.090	0.144	225.998203	-43.739571	-698.94	876.39
6	GUIDE	1026710544	7.49	2510	0.007	-0.057	0.054	0.087	227.004526	-43.712502	-843.73	-1738.11
7	GUIDE	1026189256	6.40	2508	0.016	0.014	0.085	0.148	227.163324	-42.867922	2140.67	-2454.87

2.4 Star Slots

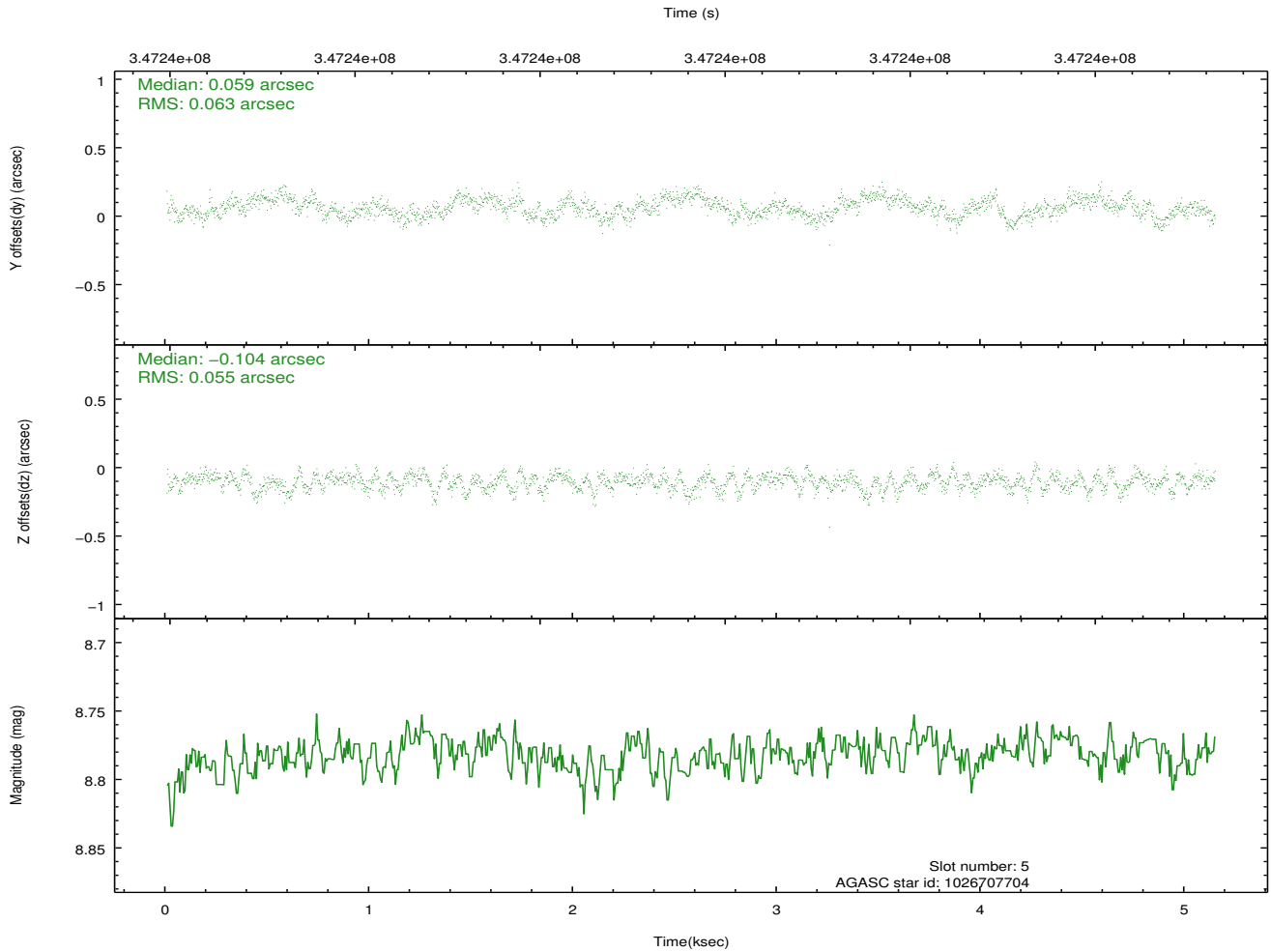
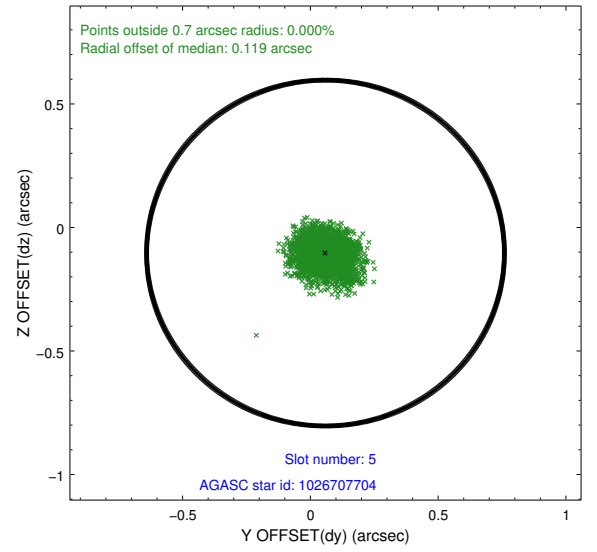
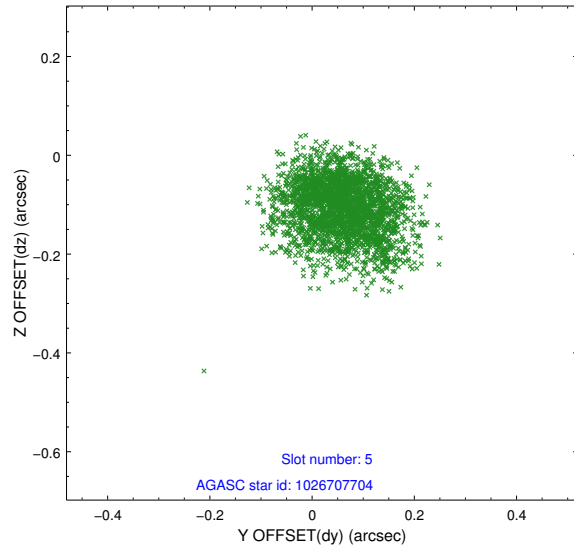
2.4.1 Slot 3



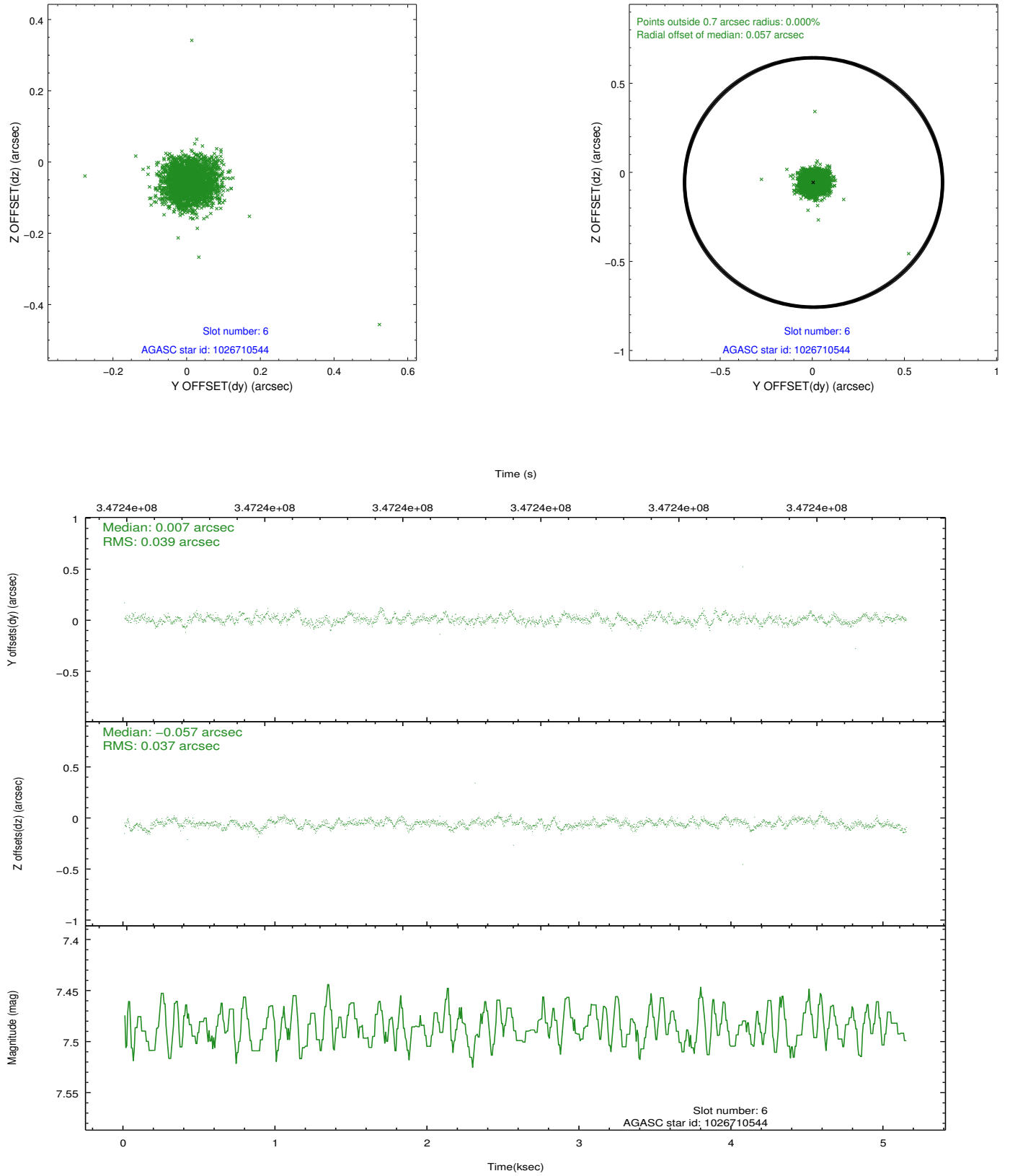
2.4.2 Slot 4



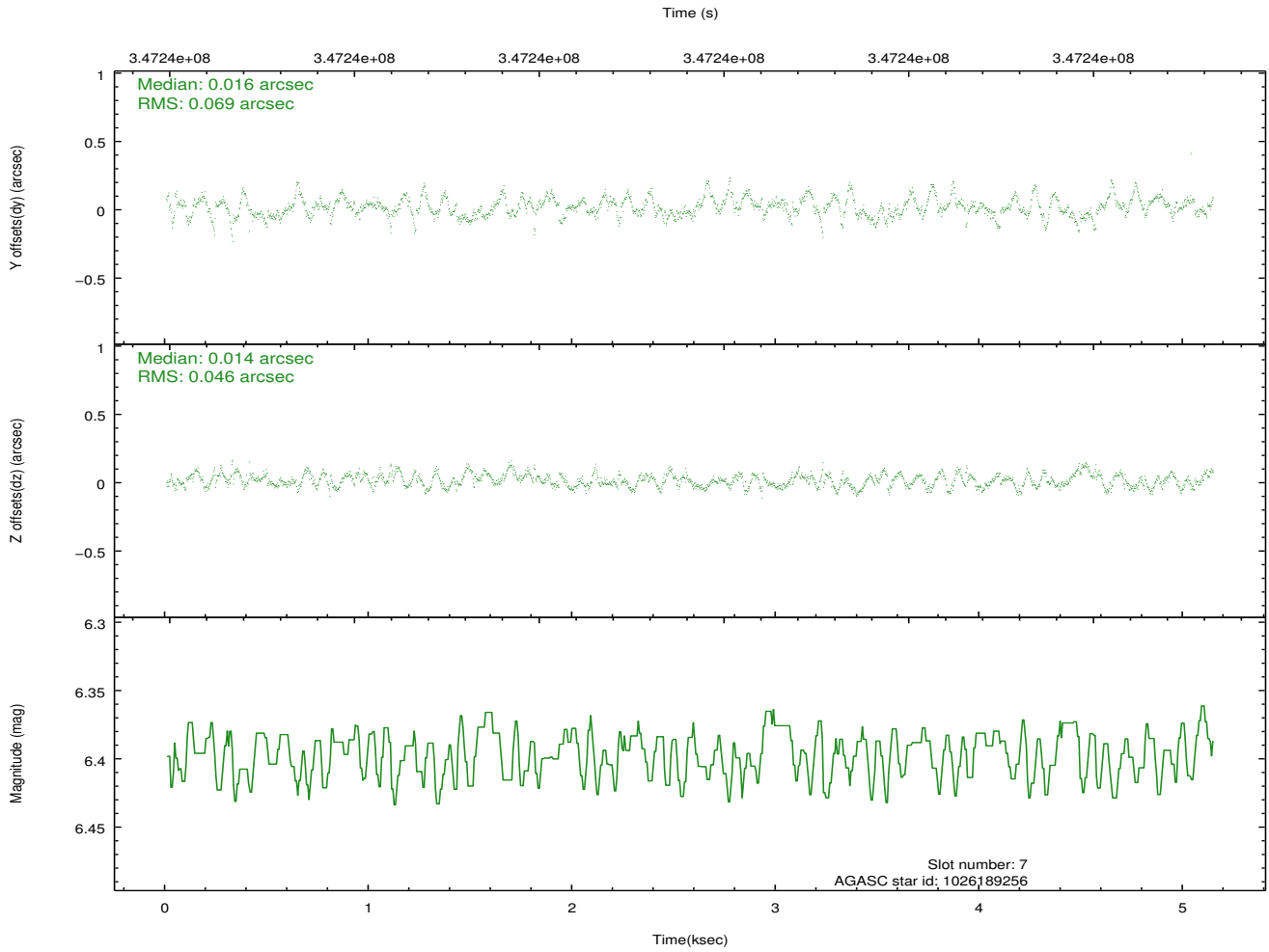
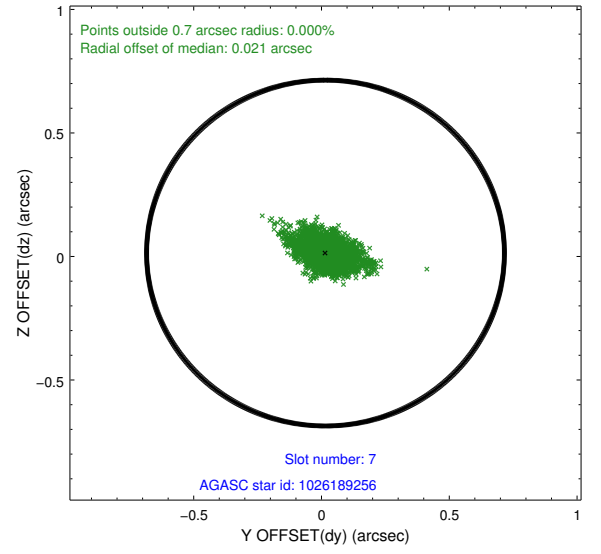
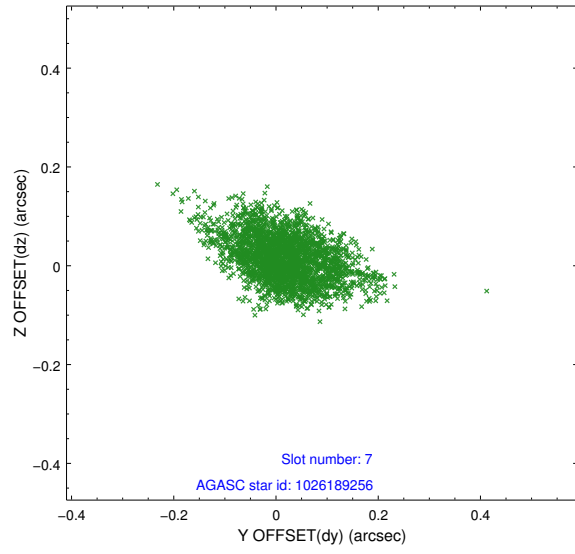
2.4.3 Slot 5



2.4.4 Slot 6

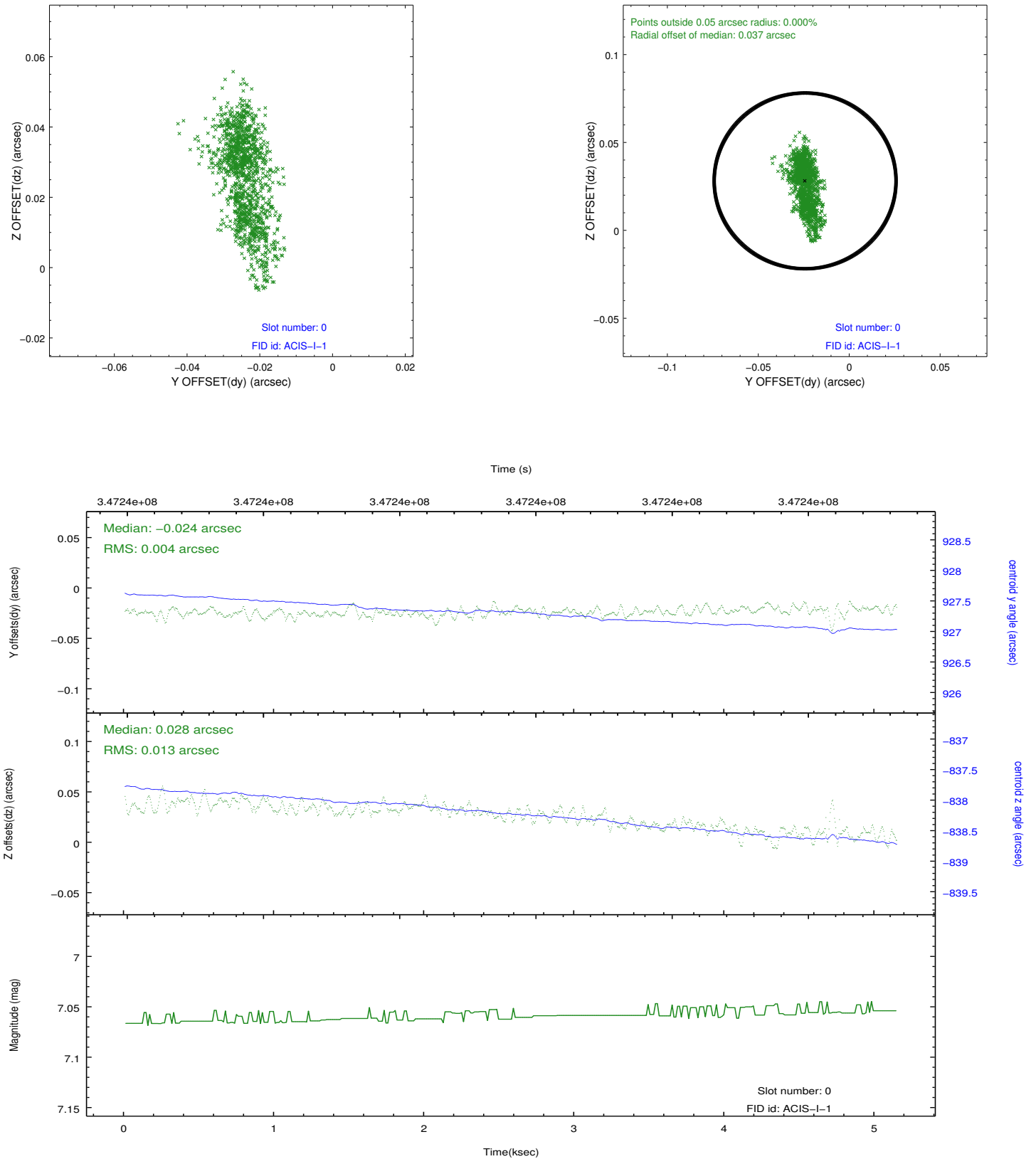


2.4.5 Slot 7

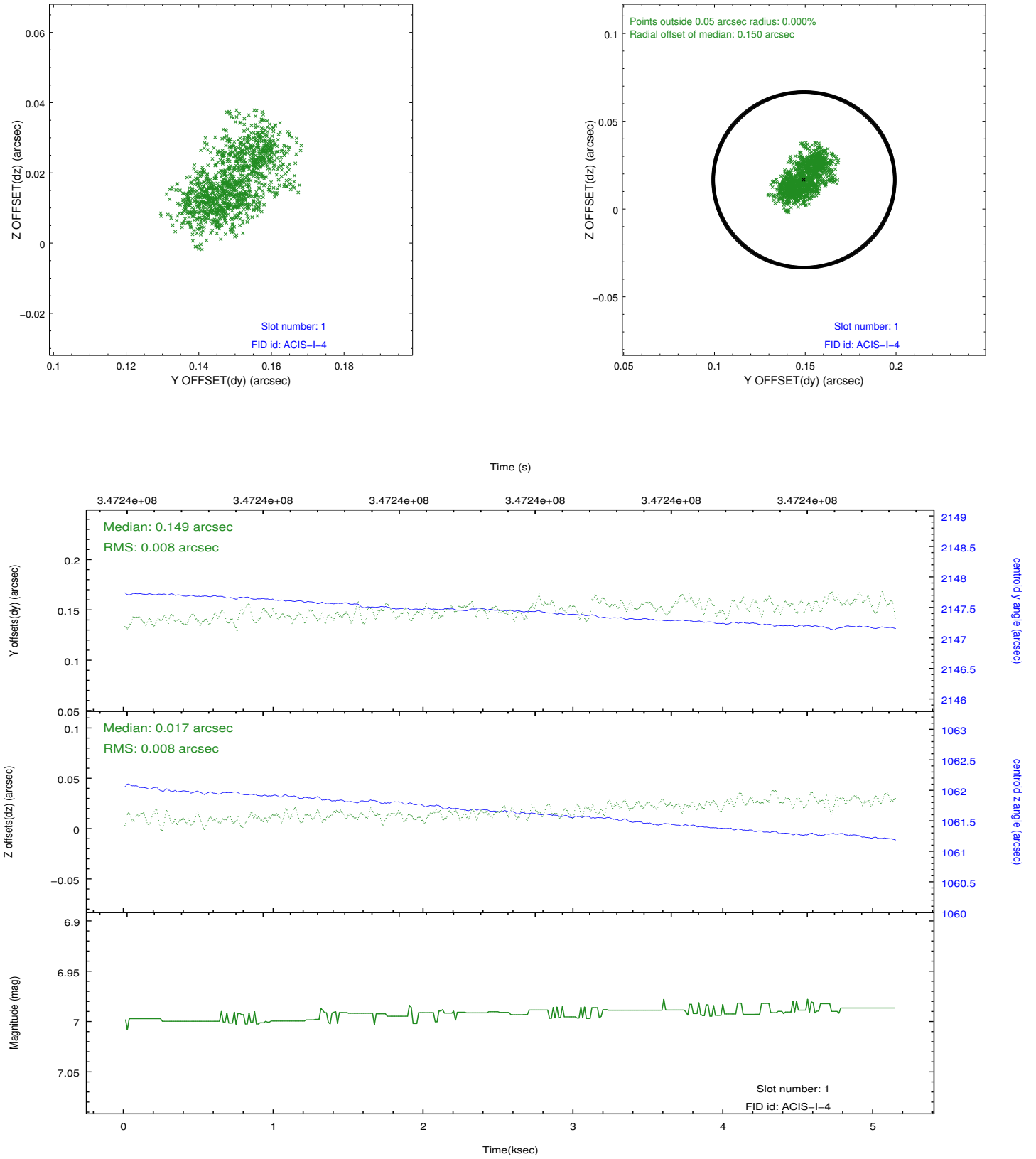


2.5 FID Slots

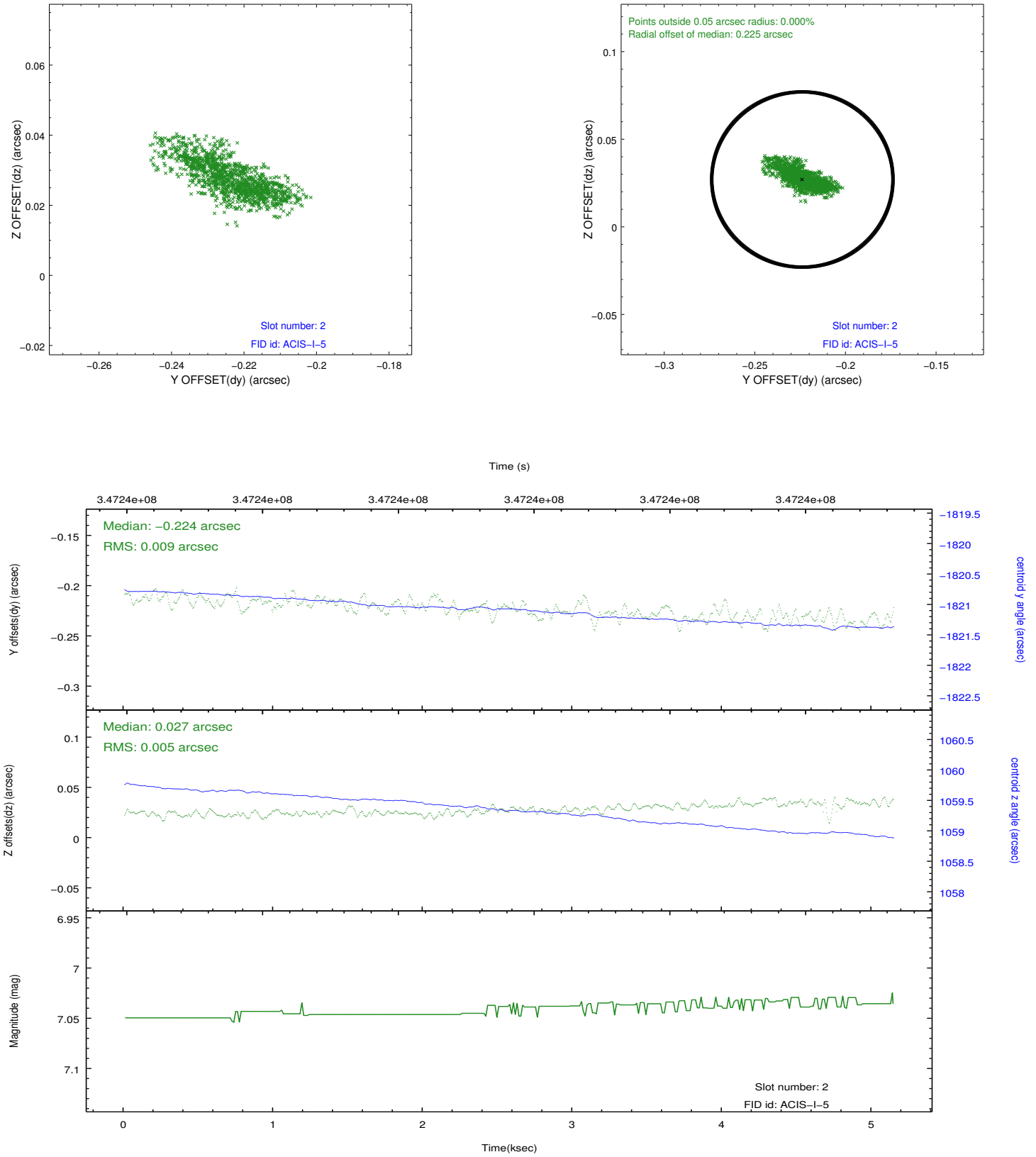
2.5.1 Slot 0



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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.13599998

A.2 Comments