

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8057 - L2 Version 2
Chandra X-Ray Center

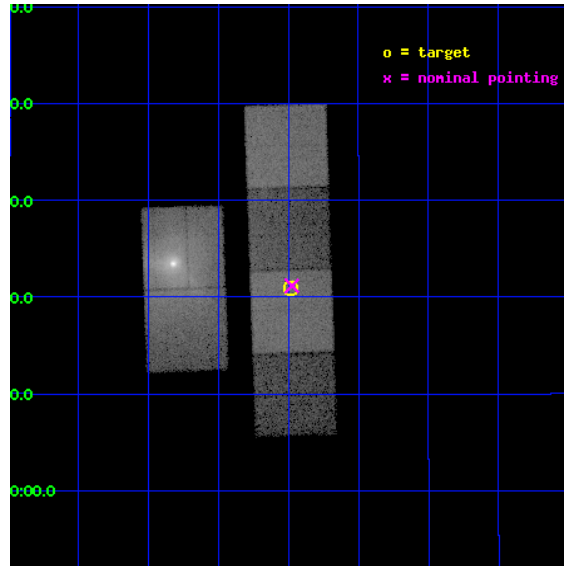
L2 Processing Date : May 9 2012

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1 Front

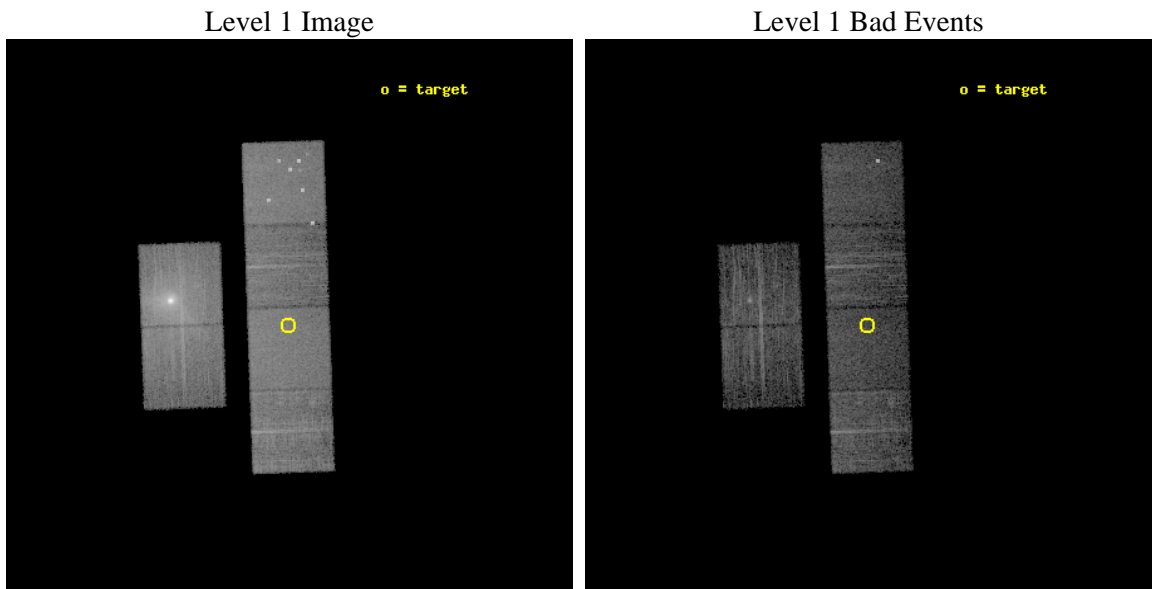
seq_num	900598	Sequence number
obs_id	8057	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1250	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.49625	Observer's specified target RA [deg]
dec_targ	12.348611	Observer's specified target Dec [deg]
ra_nom	187.49379406146	Nominal RA [deg]
dec_nom	12.352943450825	Nominal Dec [deg]
roll_nom	88.041649414316	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	5093.0812142701	Livetime [s]
ontime2	5158.3999808431	Sum of GTIs [s]
ontime3	5158.3999808431	Sum of GTIs [s]
ontime5	5158.3999808431	Sum of GTIs [s]
ontime6	5158.3999808431	Sum of GTIs [s]
ontime7	5158.3999808431	Sum of GTIs [s]
ontime8	5155.158960402	Sum of GTIs [s]
l2events	235485	Number of level 2 events



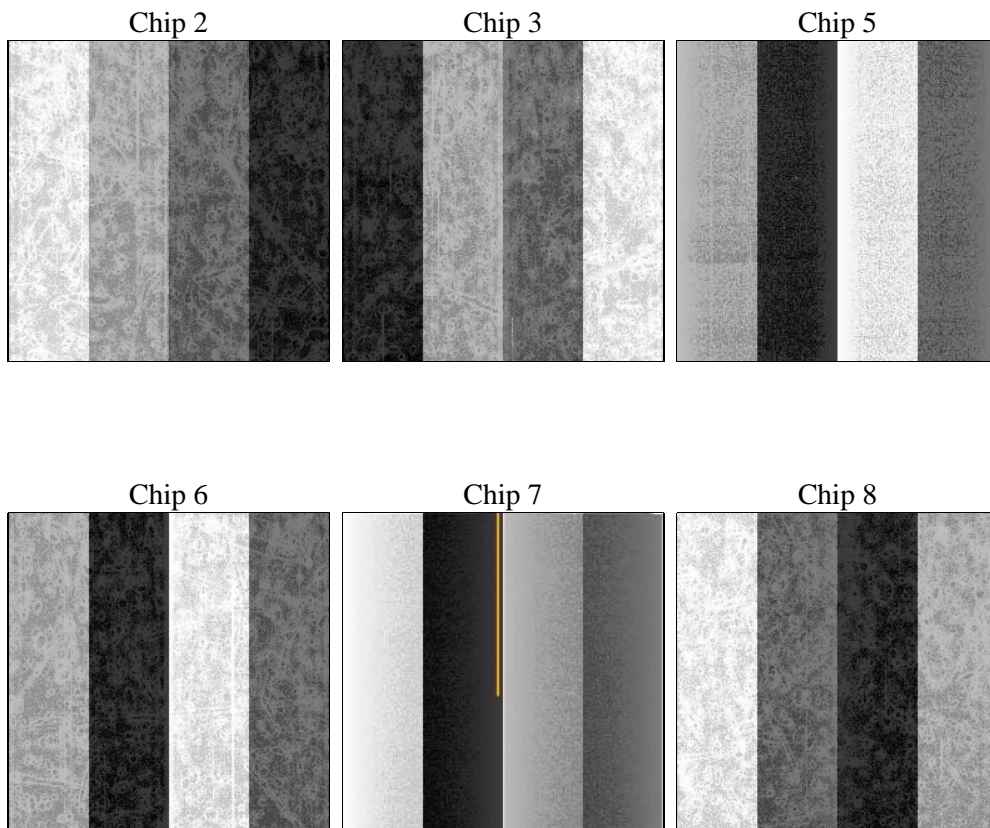
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.387000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5158.3999808431	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5158.3999808431	Sum of GTIs [s]
date	2012-05-09T19:29:01	Date and time of file creation	ontime3	5158.3999808431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.3999808431	Sum of GTIs [s]
			ontime6	5158.3999808431	Sum of GTIs [s]
			ontime7	5158.3999808431	Sum of GTIs [s]
			ontime8	5155.158960402	Sum of GTIs [s]
			l1events	533192	Number of level 1 events

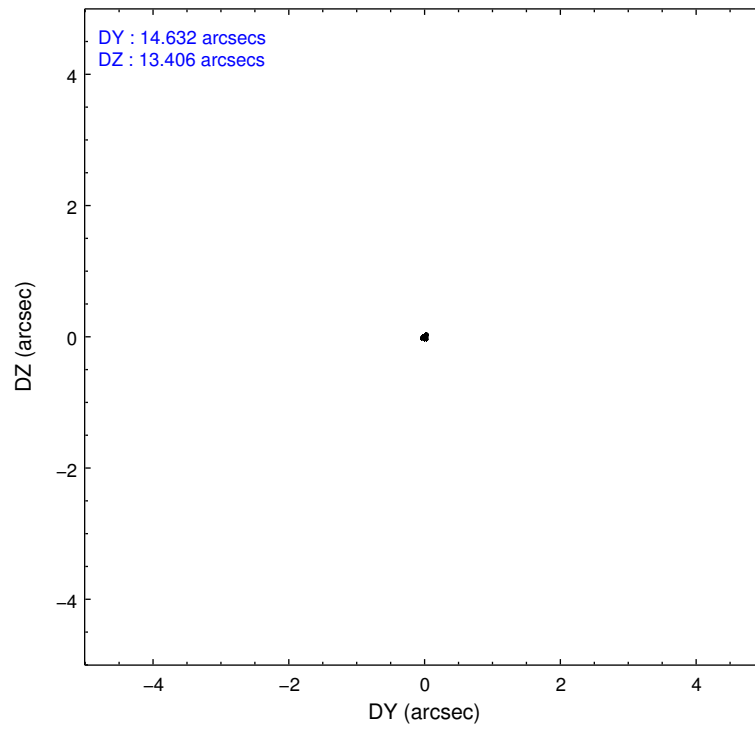
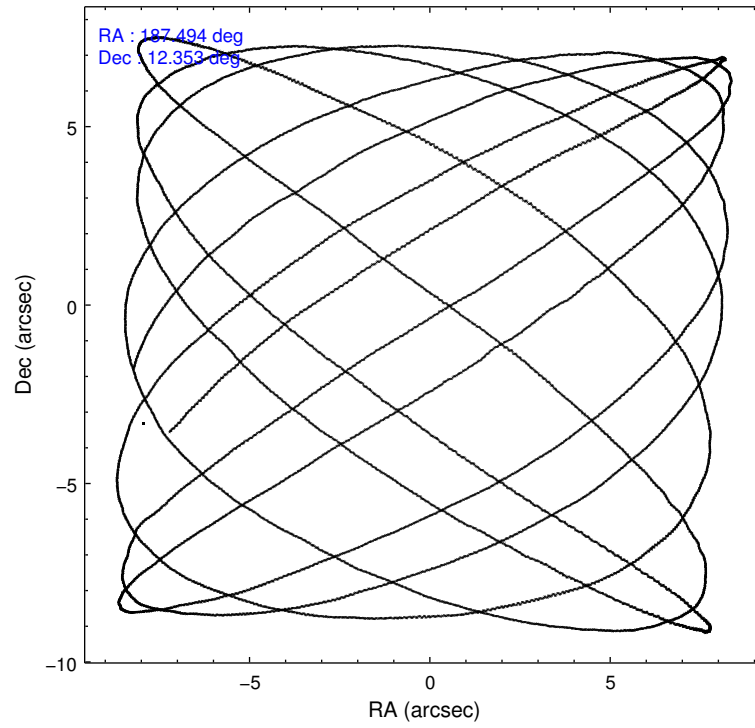
2.1.4 Events

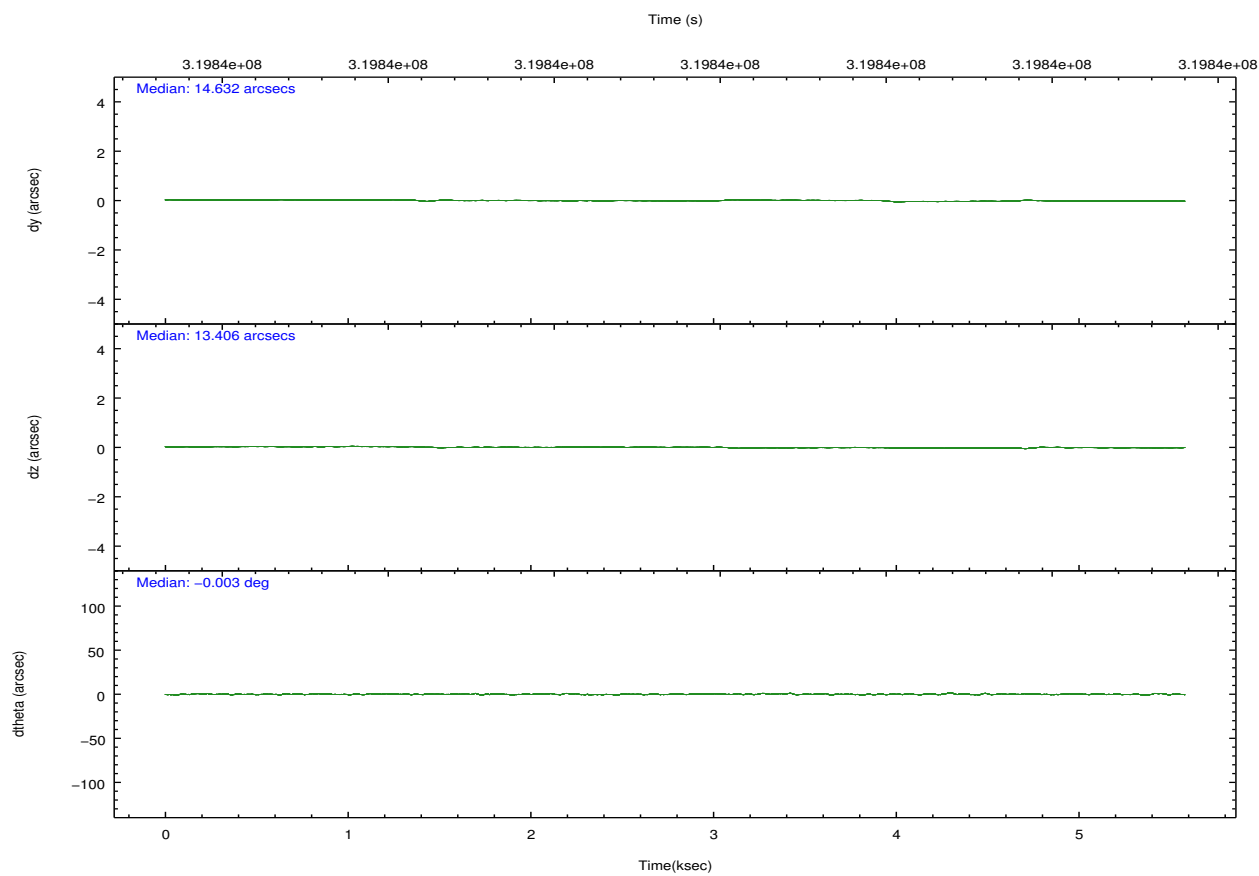
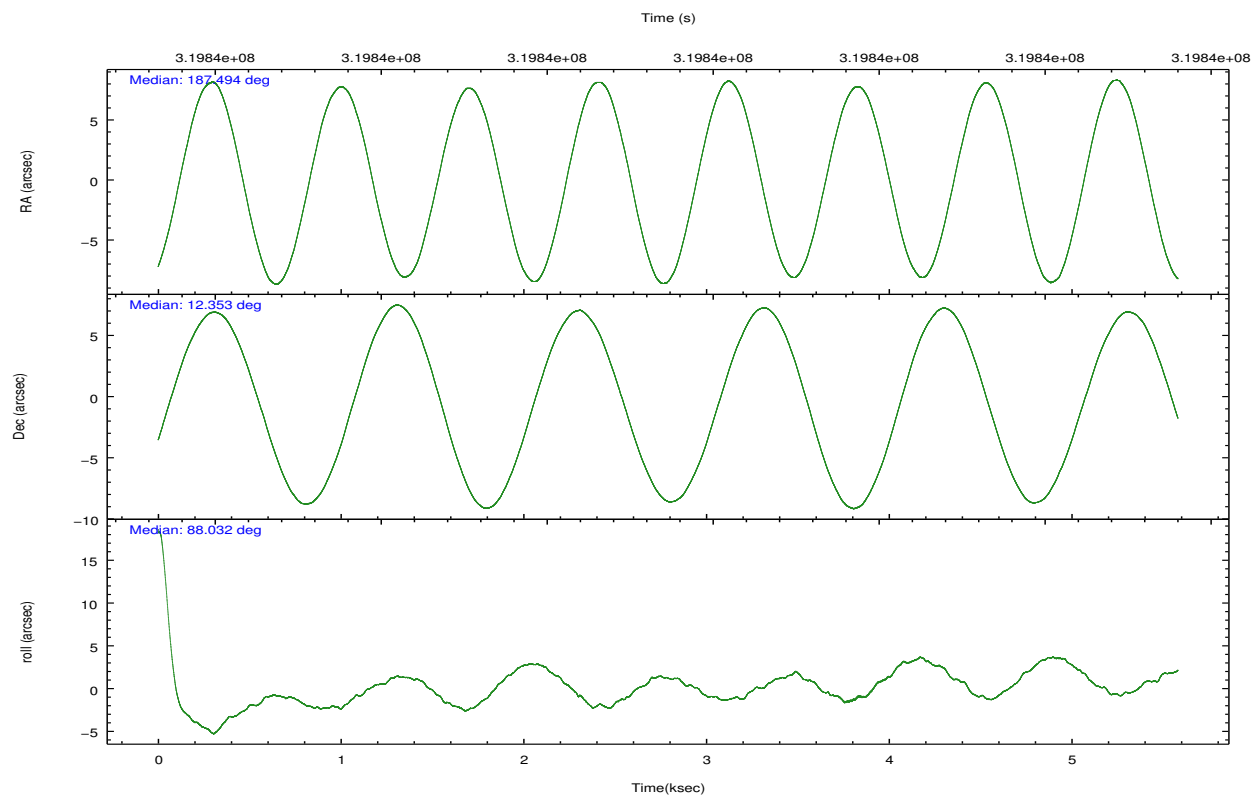
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	145259	75493	93915	62025	82794	73706	grade 0 events	79668	25808	10532	12429	6760	9277
rejected events	48580	42036	43103	43734	39508	53296		54%	34%	11%	20%	8%	12%
rejected %	33%	55%	45%	70%	47%	72%	grade 1 events	637	170	116	74	77	65
								0%	0%	0%	0%	0%	0%
							grade 2 events	9040	3575	14392	2519	9391	3885
								6%	4%	15%	4%	11%	5%
							grade 3 events	2818	1232	2006	916	3993	1698
								1%	1%	2%	1%	4%	2%
							grade 4 events	2803	1314	1872	865	3969	1543
								1%	1%	1%	1%	4%	2%
							grade 5 events	2387	2335	5305	2319	6331	3124
								1%	3%	5%	3%	7%	4%
							grade 6 events	2406	1550	22042	1573	19199	4020
								1%	2%	23%	2%	23%	5%
							grade 7 events	45500	39509	37650	41330	33074	50094
								31%	52%	40%	66%	39%	67%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	187.507282	187.4937940614607	CCD I2 on	O1	Y
[deg] Pointing Dec	12.328870	12.35294345082475	CCD I3 on	O2	Y
[deg] Pointing Roll	87.882127	88.04164941431564	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[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	O4	Y
[s] Observation start time (MET)	319835123.184000	319834731.98648	CCD S5 on	N	N
Observation start date	2008-02-19T19:04:18	2008-02-19T18:58:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319840524.184000	319840746.17427	On-chip summing requested	N	N
Observation end date	2008-02-19T20:34:19	2008-02-19T20:39:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



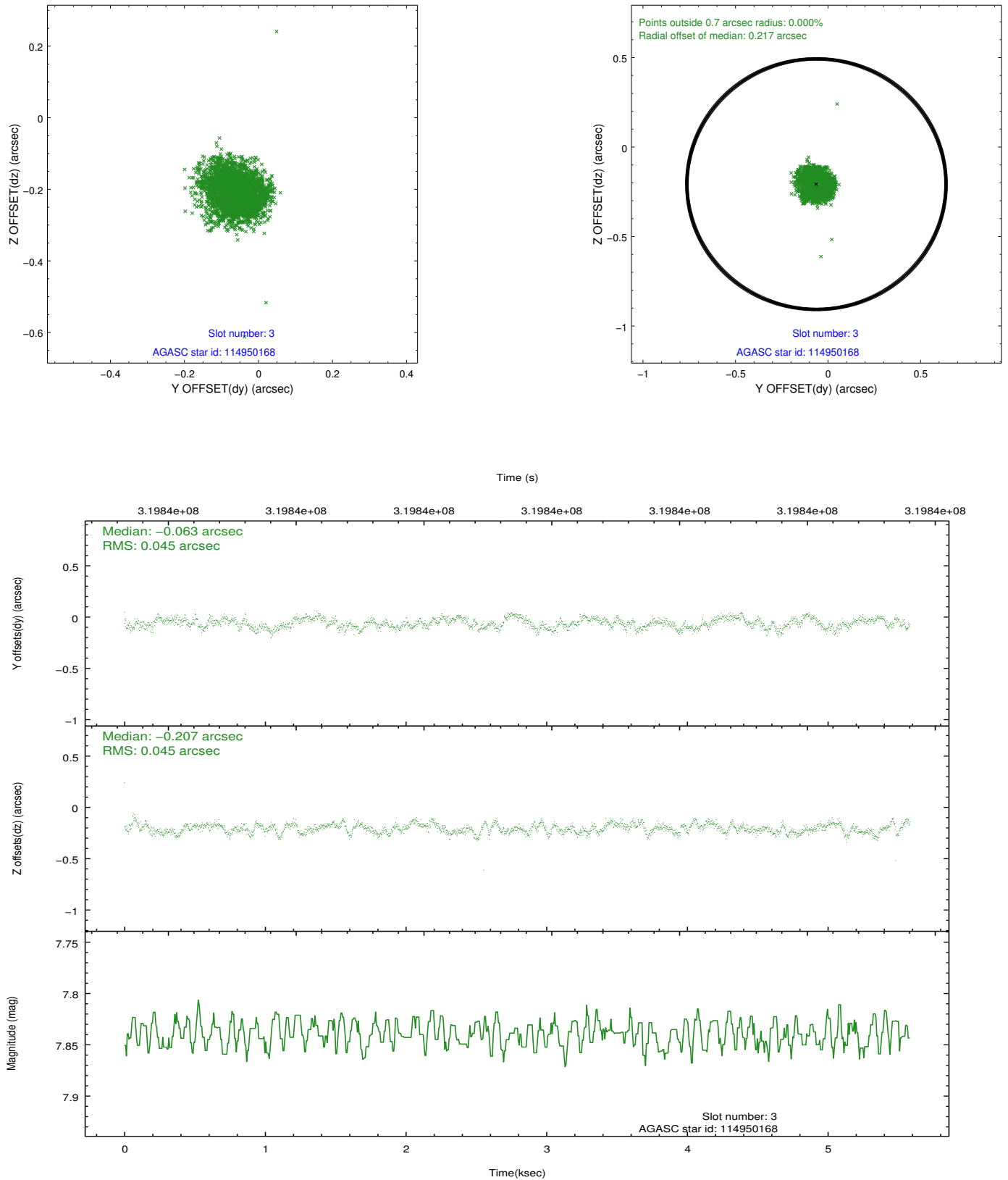


Slot Statistics

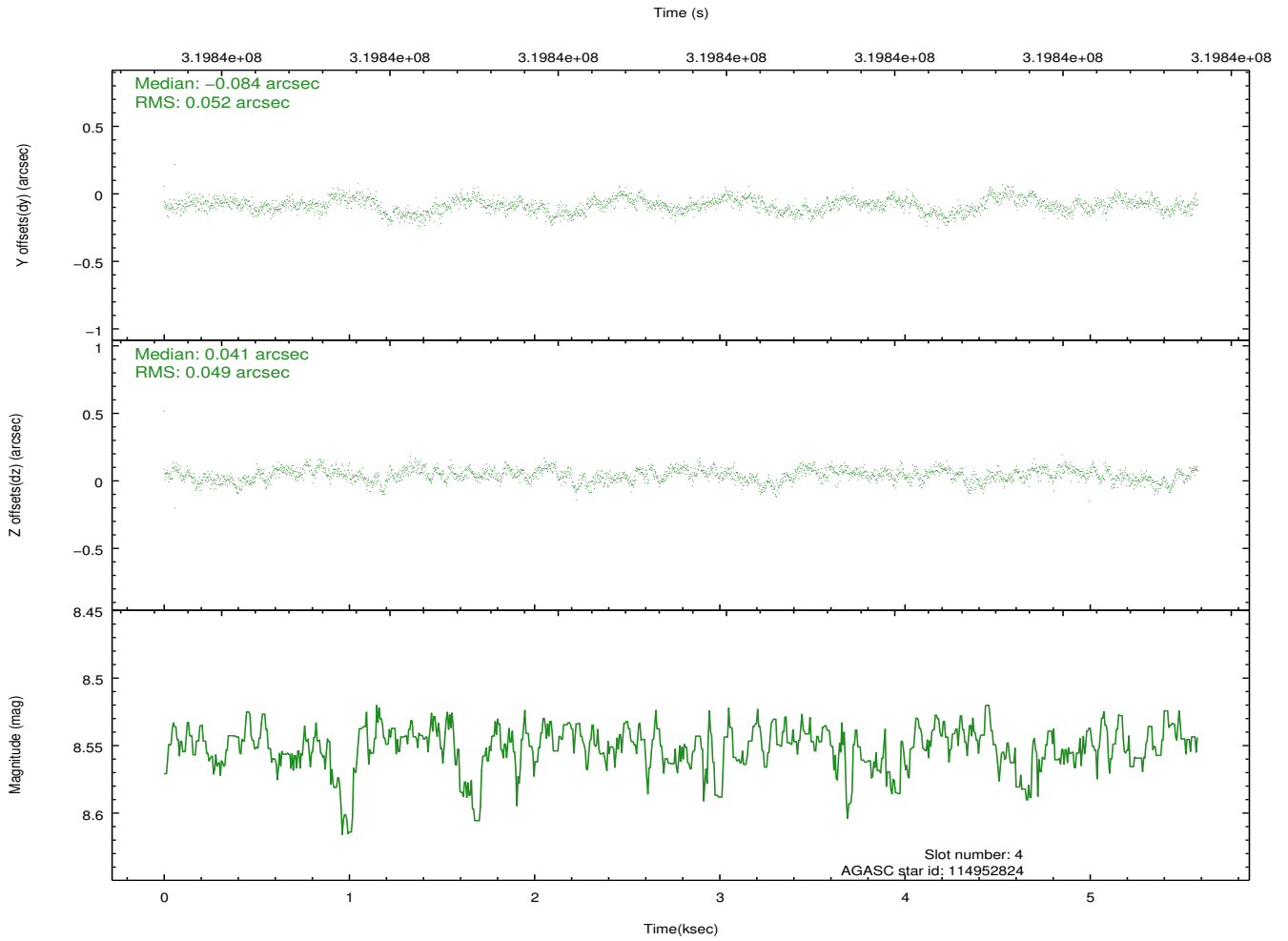
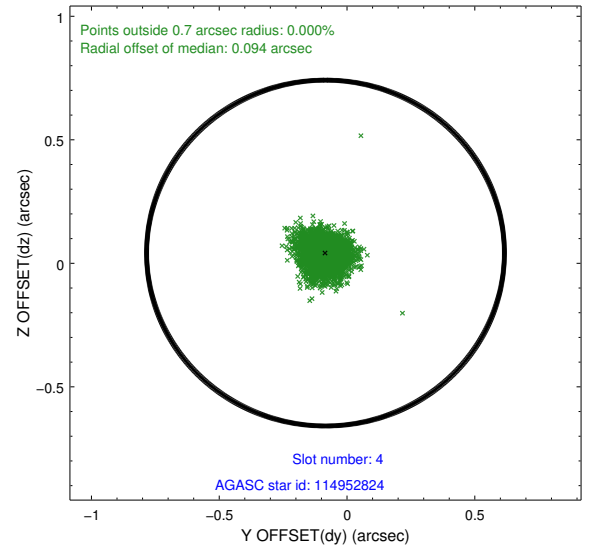
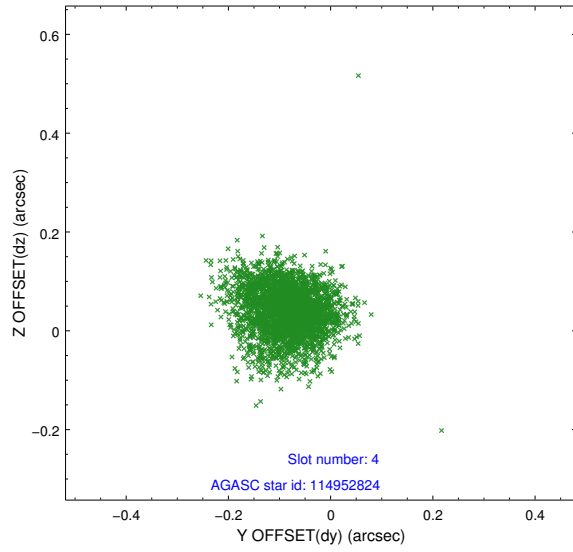
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.124	-0.083	0.005	0.010	0.000000	0.000000	-767.75	-1734.81
1	FID	ACIS-S-4	7.20	1362	0.126	0.068	0.006	0.010	0.000000	0.000000	2145.32	172.66
2	FID	ACIS-S-6	7.33	1362	-0.030	0.023	0.007	0.011	0.000000	0.000000	395.75	811.26
3	GUIDE	114950168	7.84	2722	-0.063	-0.207	0.069	0.103	187.143398	12.117441	-807.82	1251.84
4	GUIDE	114952824	8.55	2721	-0.084	0.041	0.076	0.123	187.703904	12.486727	593.06	-668.33
5	GUIDE	114955056	8.33	2722	0.098	0.332	0.083	0.132	187.914001	12.127854	-668.93	-1456.78
6	GUIDE	114955568	7.50	2724	-0.010	0.187	0.059	0.092	187.061916	11.826551	-1864.64	1501.33
7	GUIDE	114957008	8.24	2717	0.055	-0.352	0.066	0.106	186.894794	12.099160	-905.02	2125.00

2.4 Star Slots

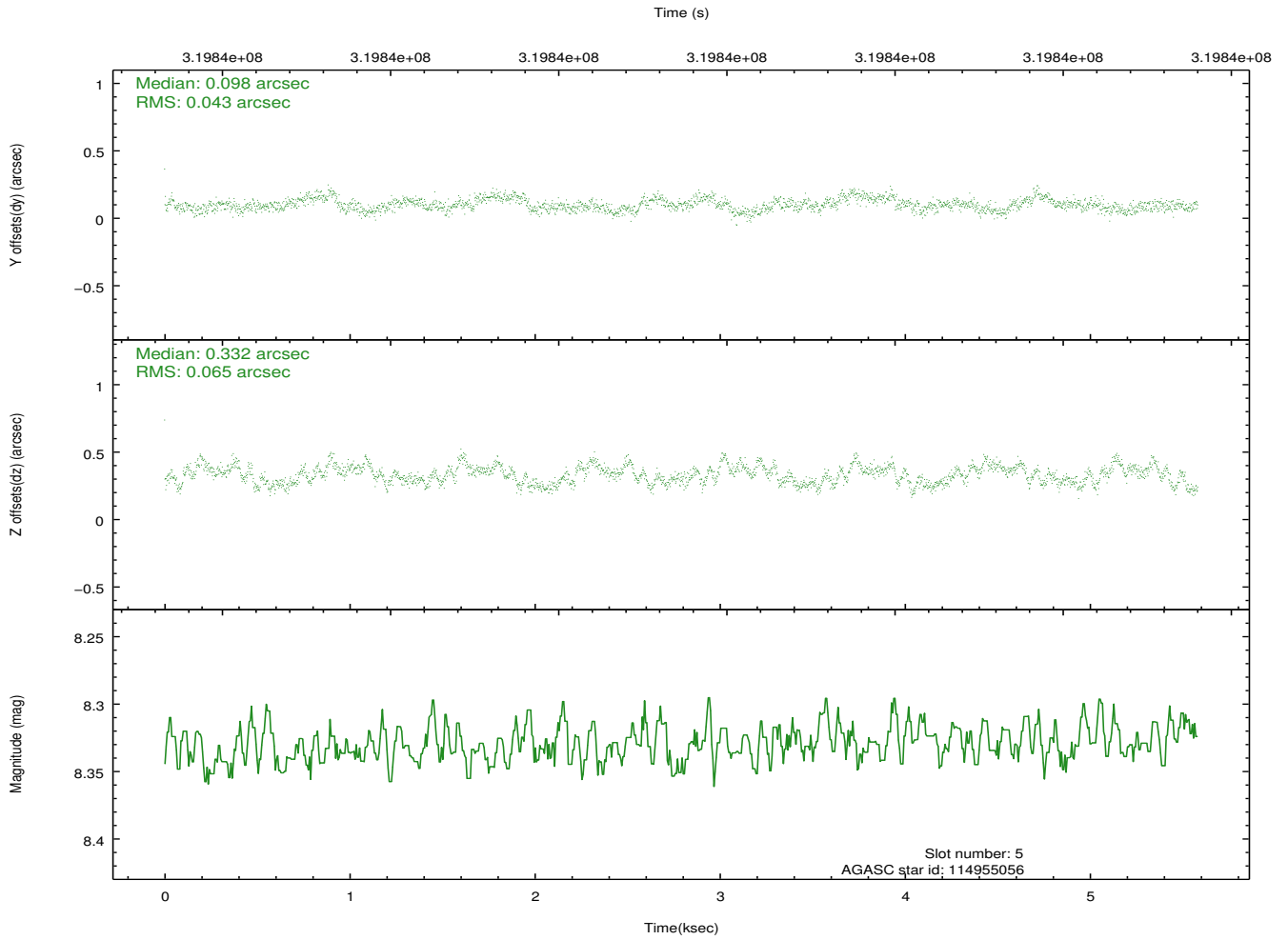
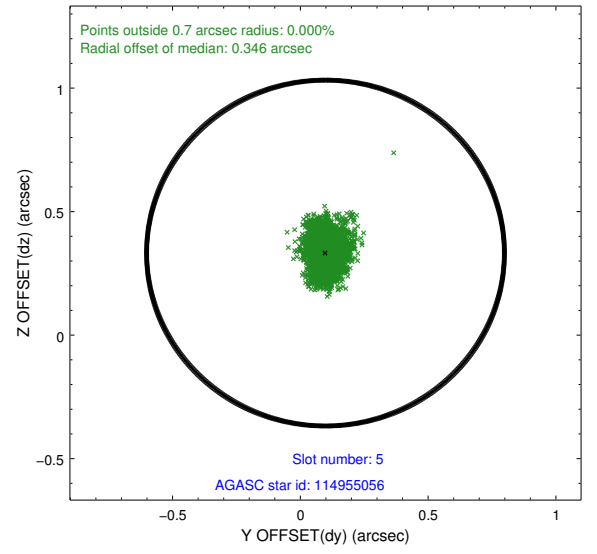
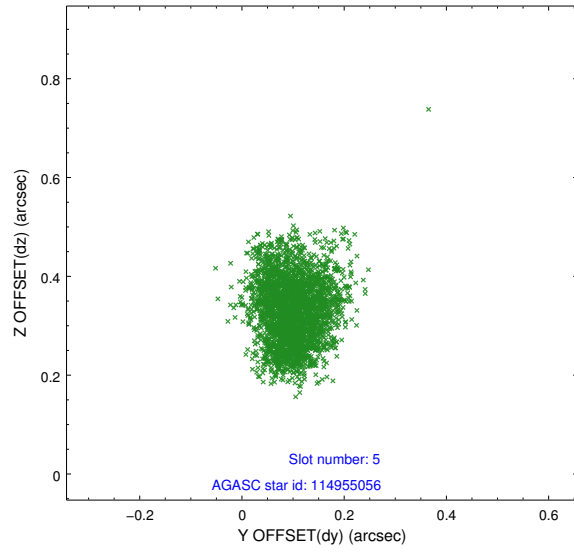
2.4.1 Slot 3



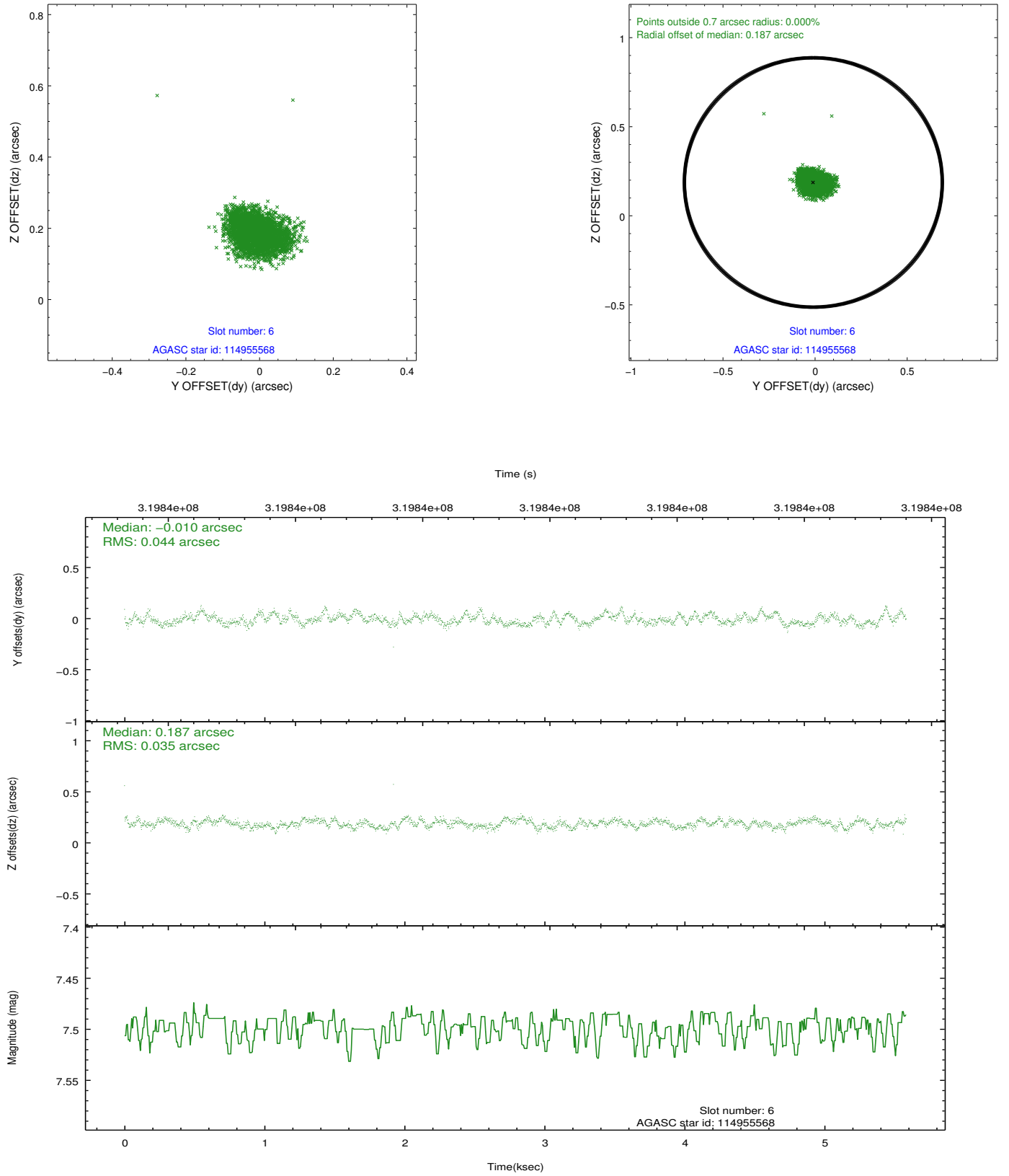
2.4.2 Slot 4



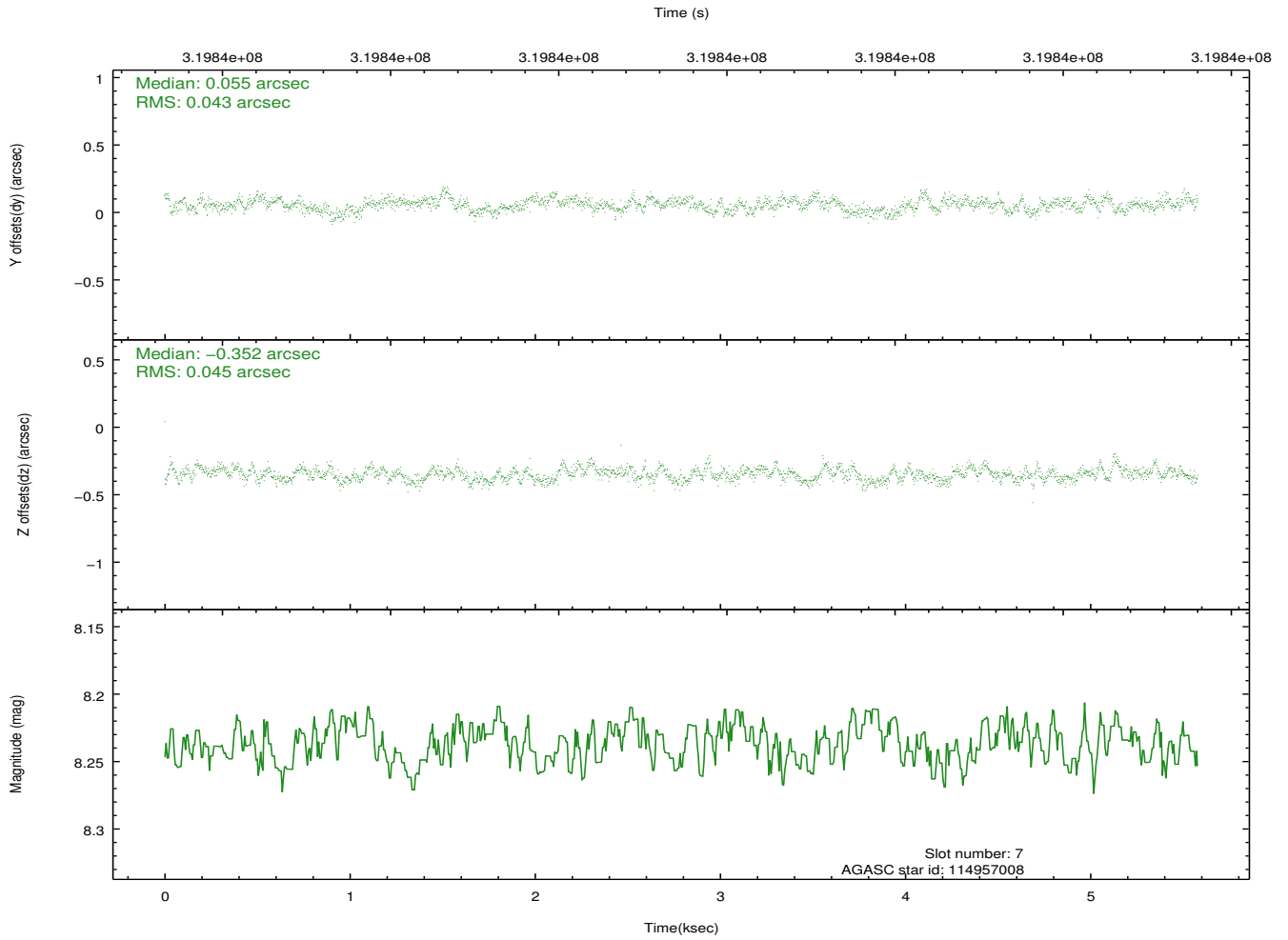
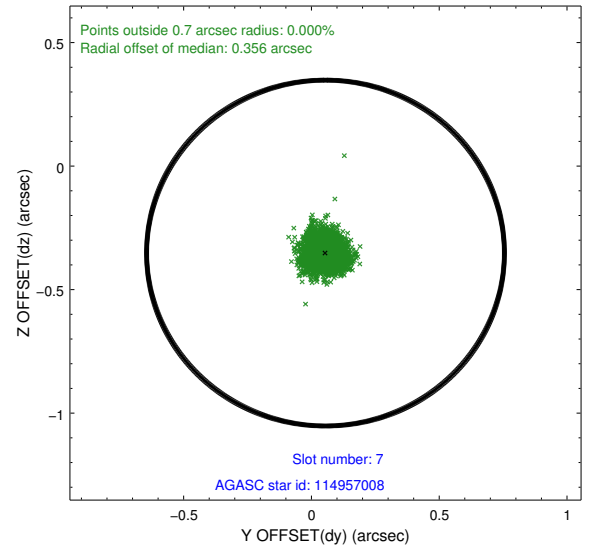
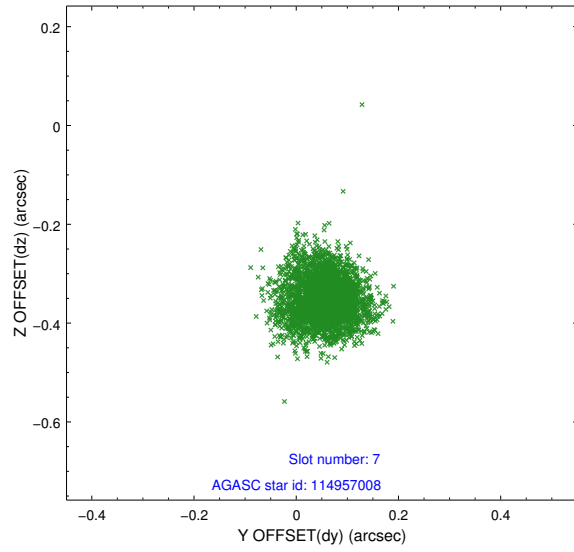
2.4.3 Slot 5



2.4.4 Slot 6

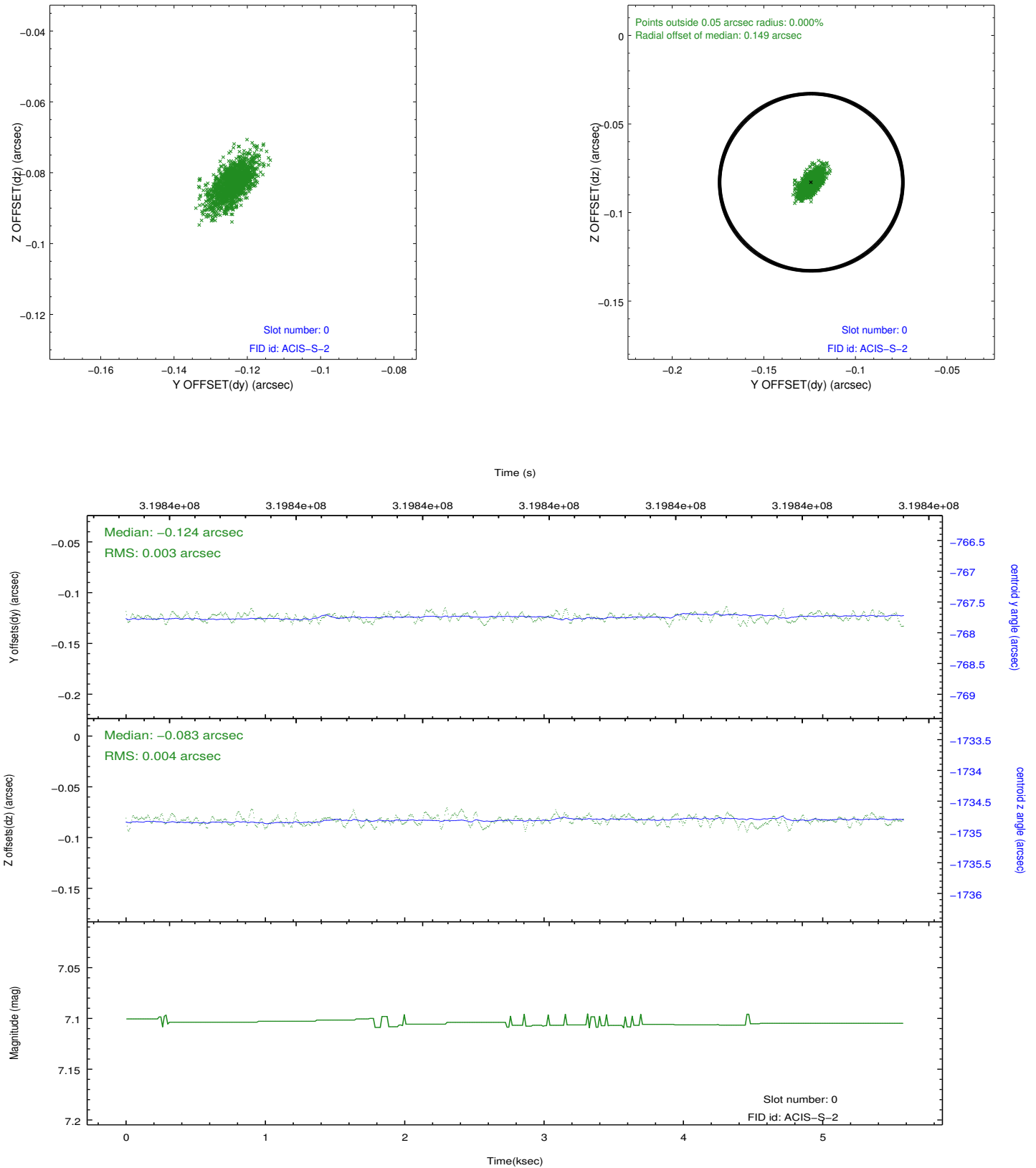


2.4.5 Slot 7

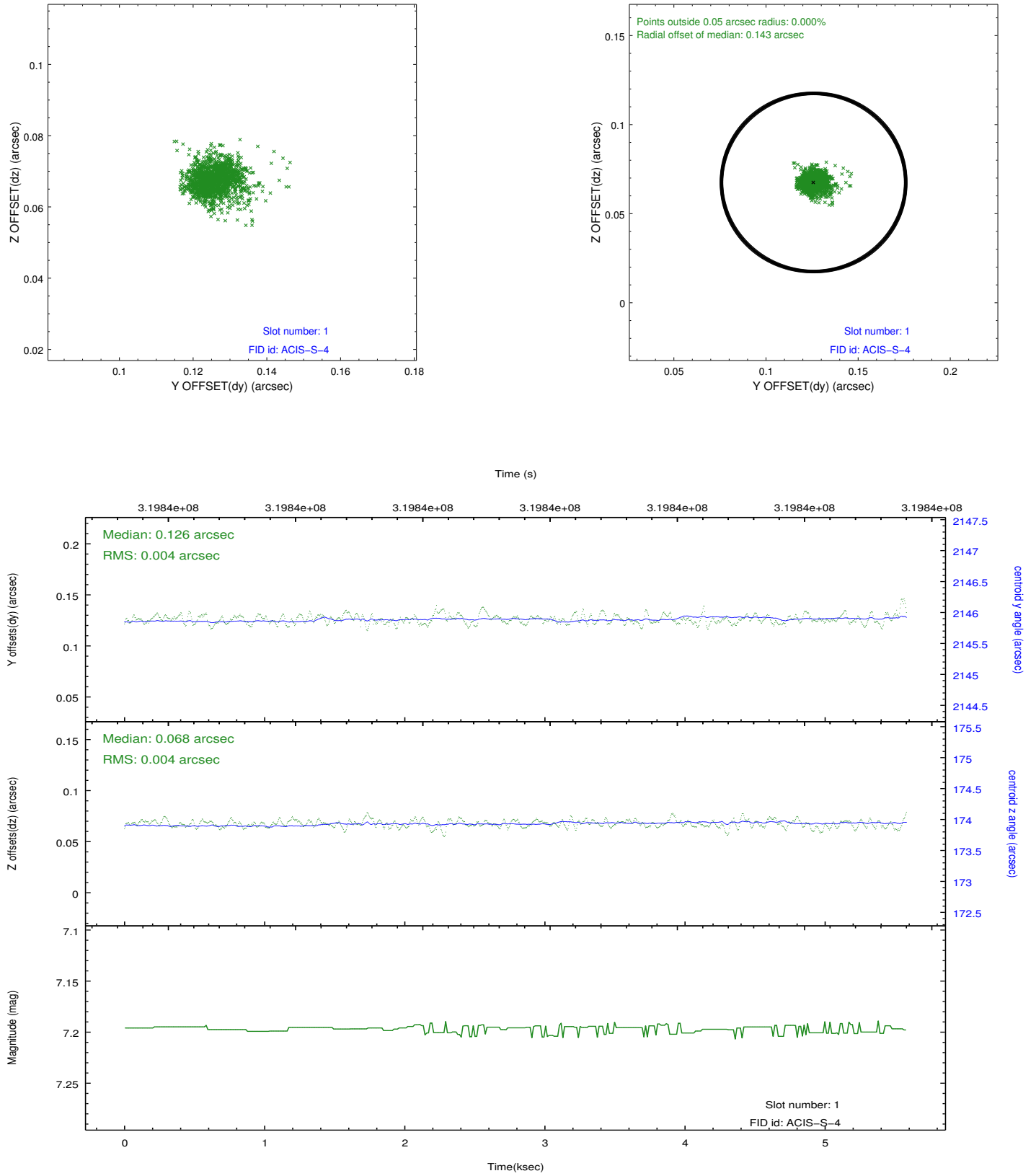


2.5 FID Slots

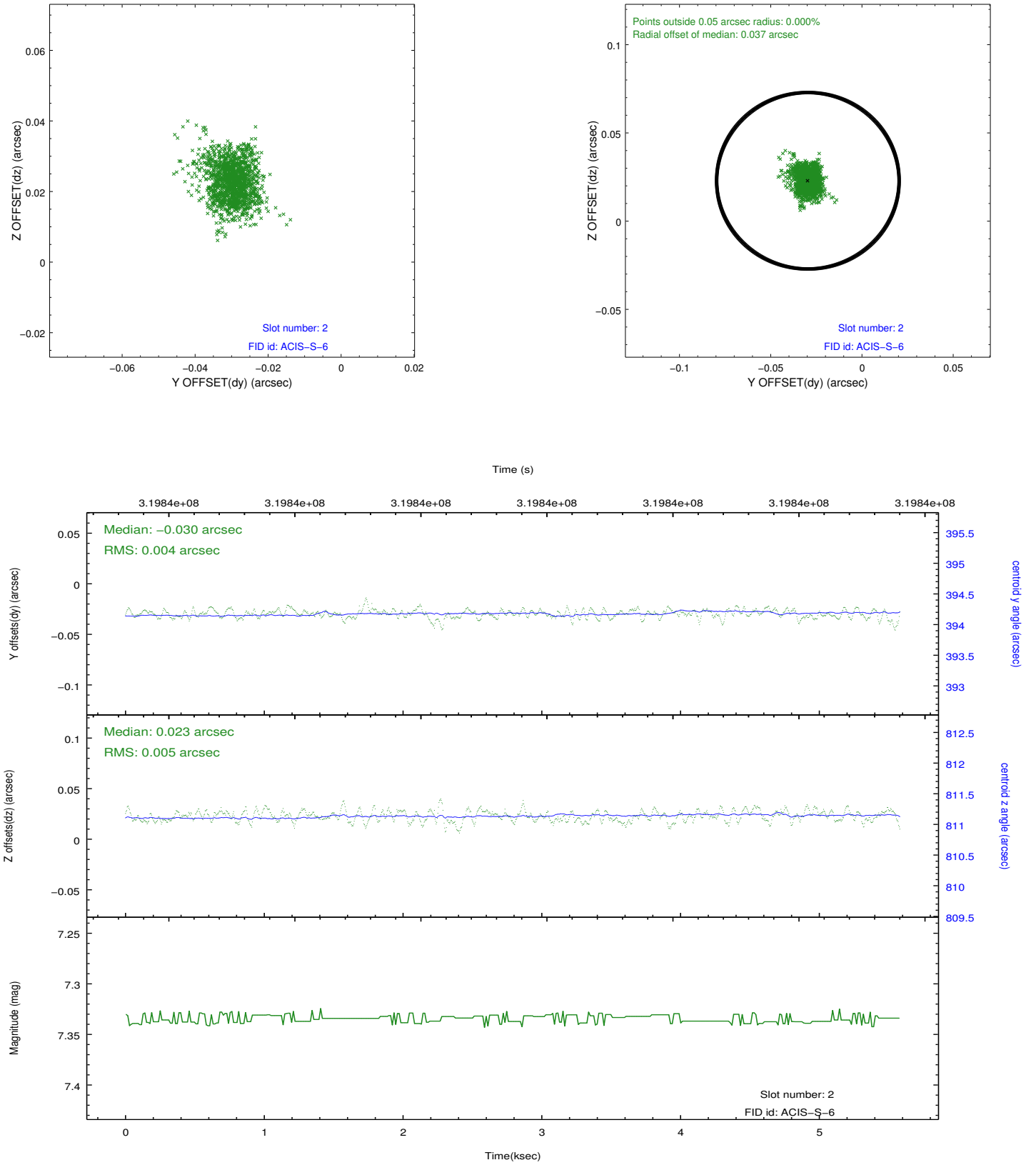
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint Proposal: Spitzer