

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10059 - L2 Version 2
Chandra X-Ray Center

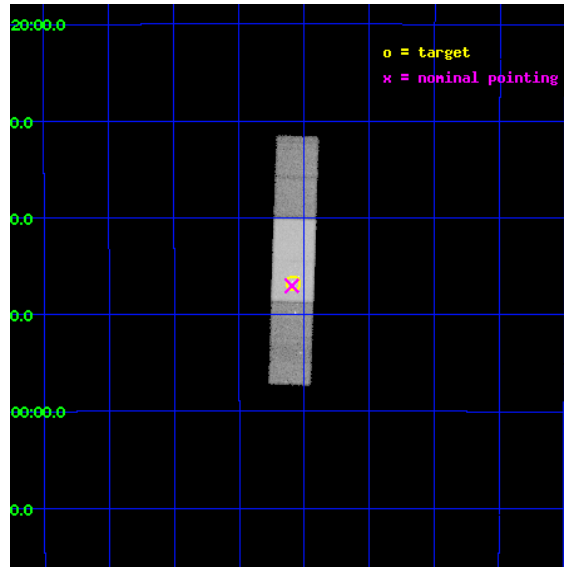
L2 Processing Date : Jun 10 2012

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1 Front

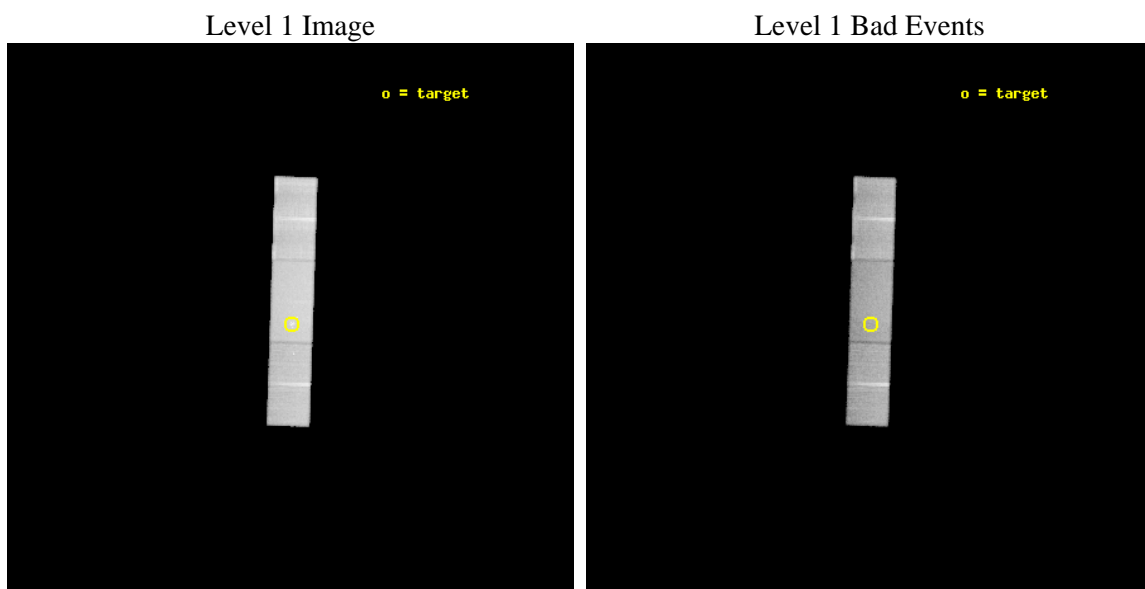
seq_num	401023	Sequence number
obs_id	10059	Observation id
title	Variability in Quiescent Neutron Star Binaries in Dense Globular Clusters	Proposal title
observer	Prof. Craig Heinke	Principal investigator
object	Terzan 5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.020833	Observer's specified target RA [deg]
dec_targ	-24.78	Observer's specified target Dec [deg]
ra_nom	267.02377605325	Nominal RA [deg]
dec_nom	-24.784048224827	Nominal Dec [deg]
roll_nom	271.84382780001	Nominal Roll [deg]
revision	2	Processing version of data
ontime	37187.200554132	Sum of GTIs [s]
livetime	36257.20328975	Livetime [s]
ontime6	37187.200554132	Sum of GTIs [s]
ontime7	37187.200554132	Sum of GTIs [s]
ontime8	37185.559553921	Sum of GTIs [s]
l2events	174839	Number of level 2 events



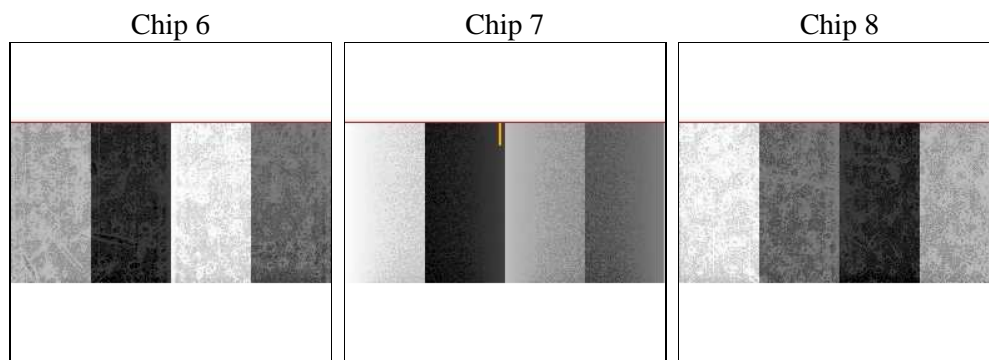
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	37187.200554132	Sum of GTIs [s]
caldbver	4.4.10	 	ontime6	37187.200554132	Sum of GTIs [s]
date	2012-06-10T12:17:45	Date and time of file creation	ontime7	37187.200554132	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	37185.559553921	Sum of GTIs [s]
			l1events	788007	Number of level 1 events

2.1.4 Events

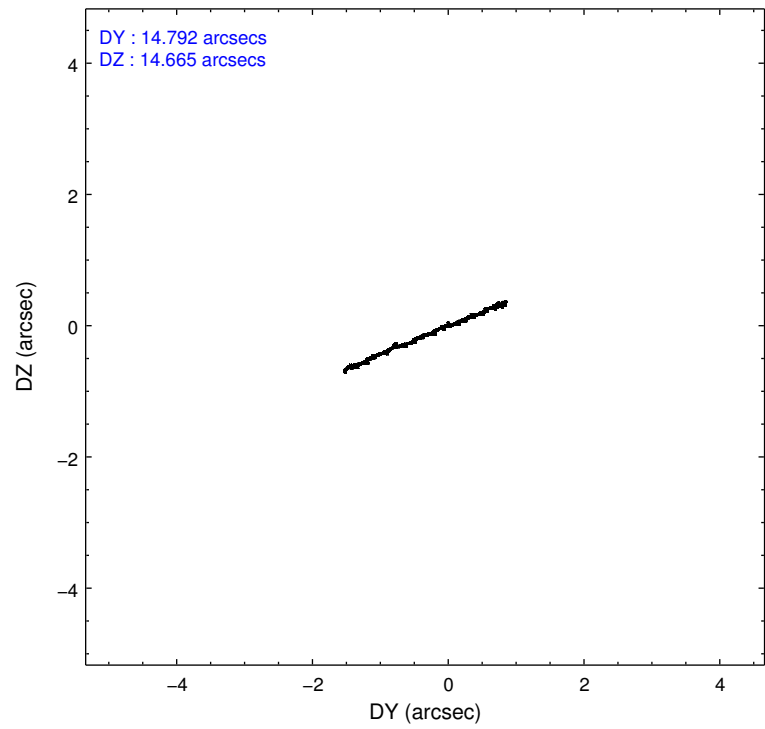
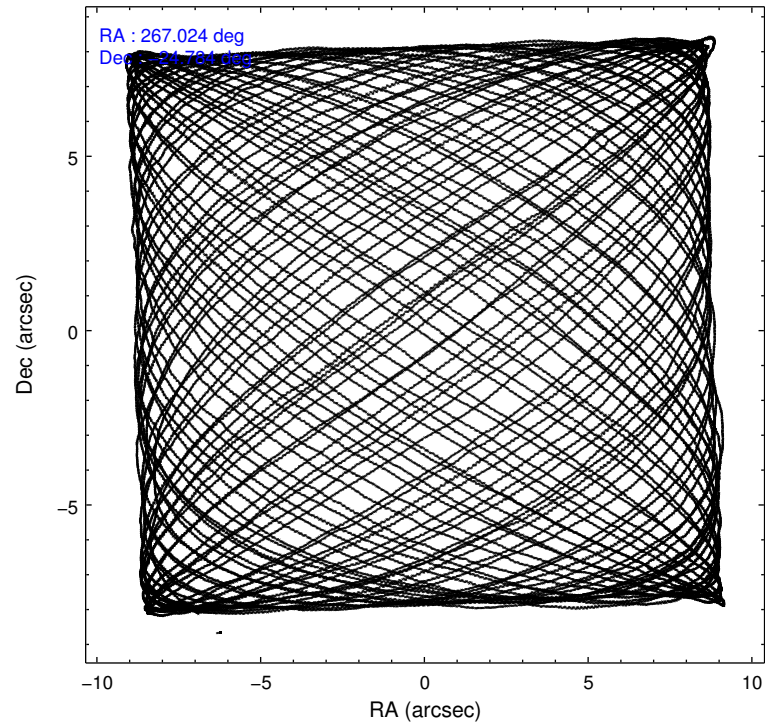
	ccd 6	ccd 7	ccd 8
level 1 events	213987	289847	284173
rejected events	185489	162388	219479
rejected %	86%	56%	77%

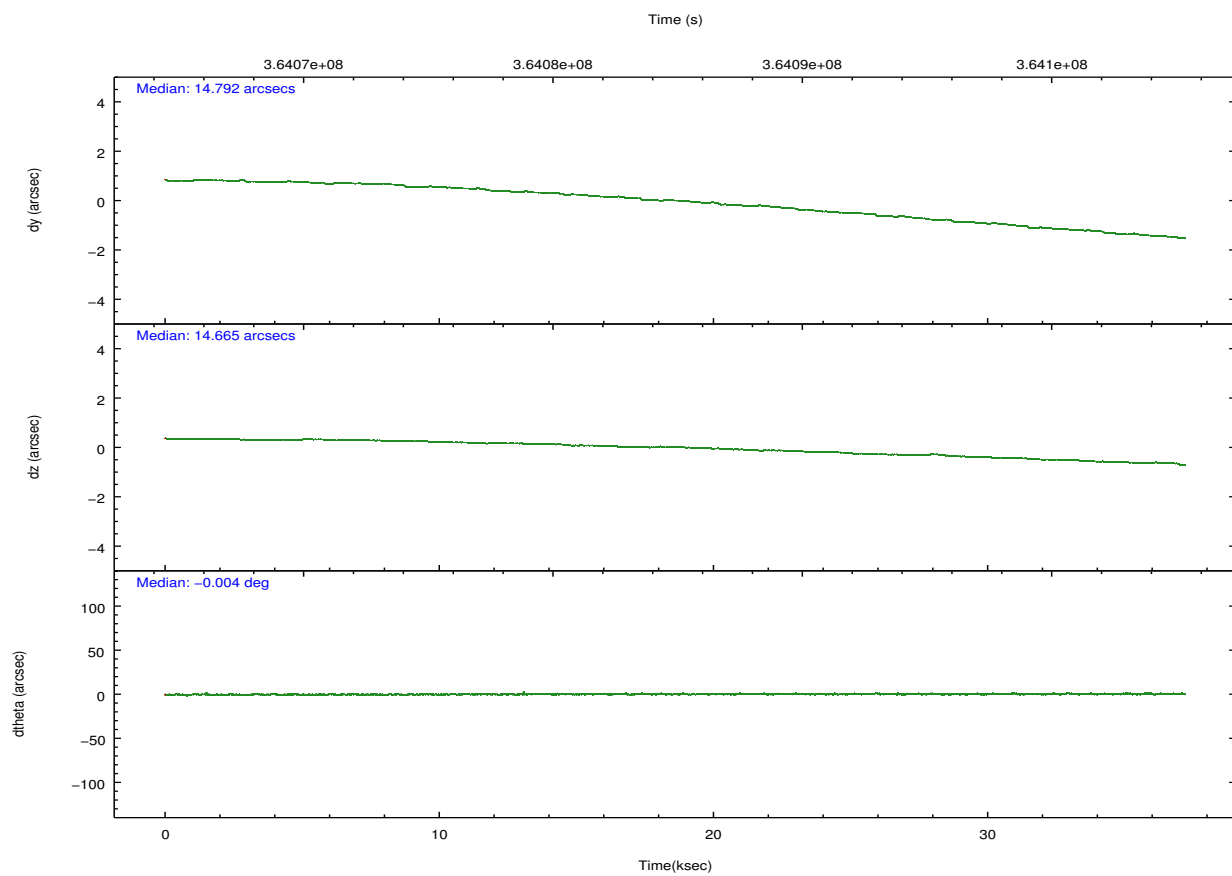
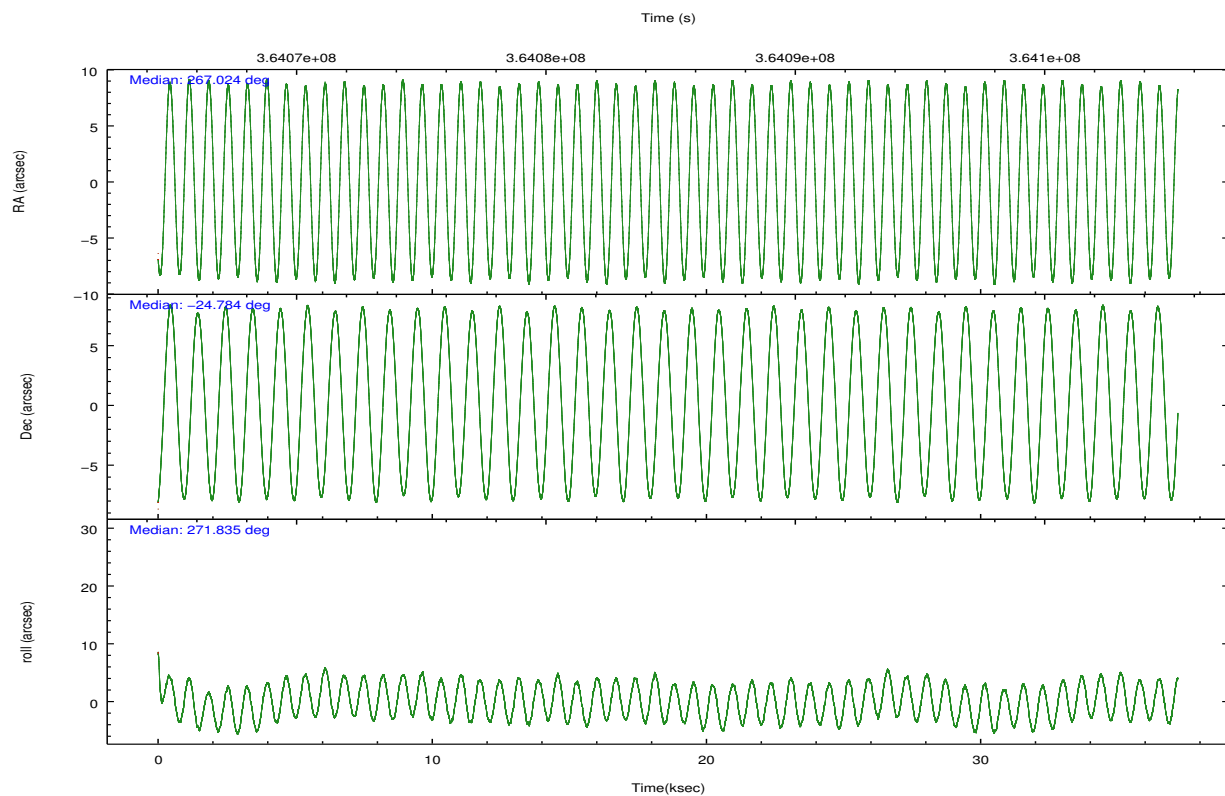
	ccd 6	ccd 7	ccd 8
grade 0 events	11708	12386	20073
	5%	4%	7%
grade 1 events	85	295	191
	0%	0%	0%
grade 2 events	5798	27055	14219
	2%	9%	5%
grade 3 events	2968	12075	6801
	1%	4%	2%
grade 4 events	2968	11940	6278
	1%	4%	2%
grade 5 events	10001	26709	13220
	4%	9%	4%
grade 6 events	5175	64574	17564
	2%	22%	6%
grade 7 events	175284	134813	205827
	81%	46%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	267.007551	267.0237760532482	CCD I2 on	N	N
[deg] Pointing Dec	-24.761014	-24.78404822482674	CCD I3 on	N	N
[deg] Pointing Roll	271.680395	271.843827800006	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	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	O1	Y
[s] Observation start time (MET)	364066498.184000	364065662.57631	CCD S5 on	N	N
Observation start date	2009-07-15T17:33:52	2009-07-15T17:21:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	364103498.184000	364104821.16577	On-chip summing requested	N	N
Observation end date	2009-07-16T03:50:32	2009-07-16T04:13:41	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.6

2.3 Aspect



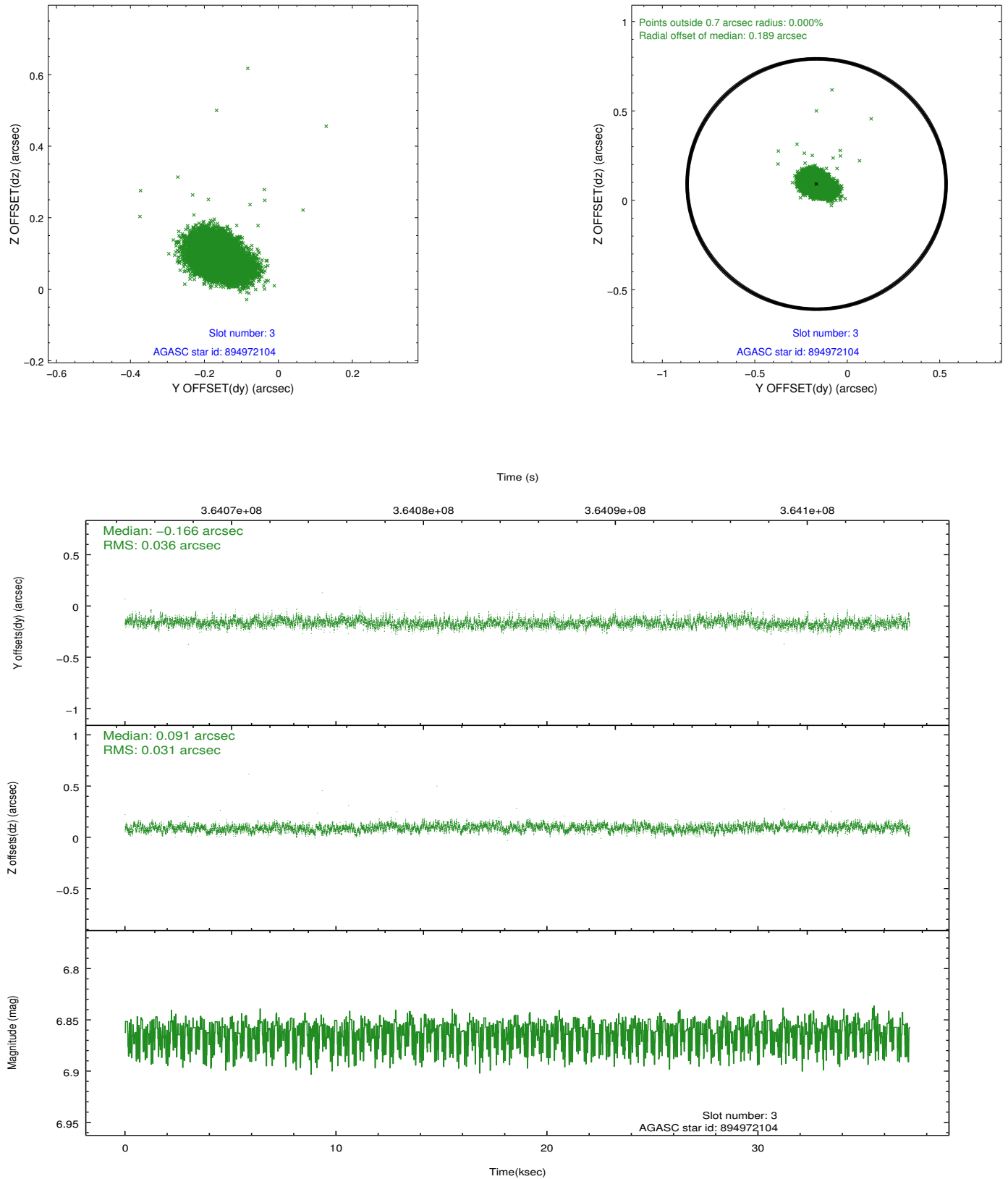


Slot Statistics

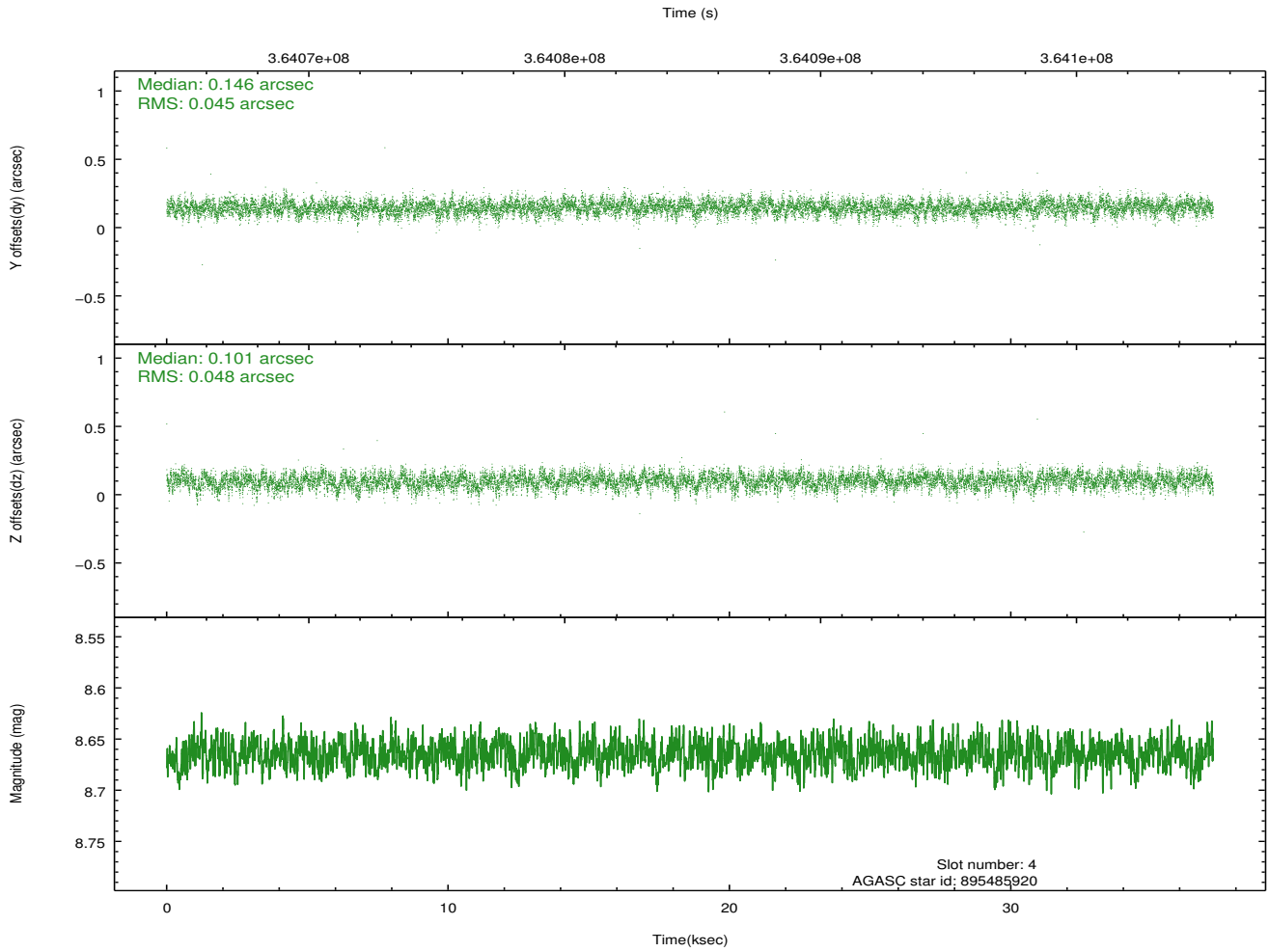
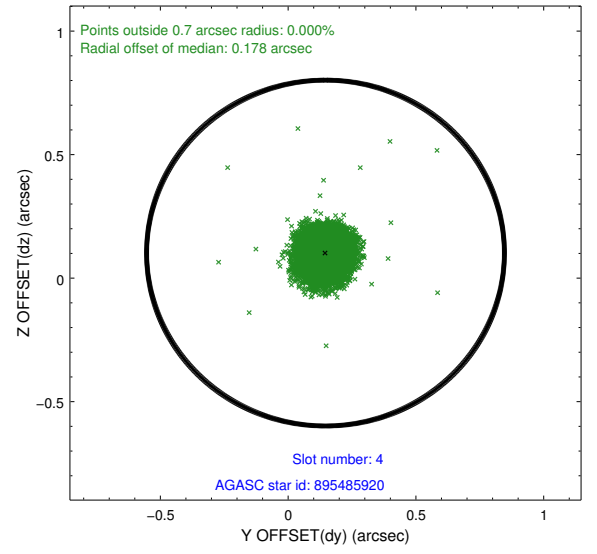
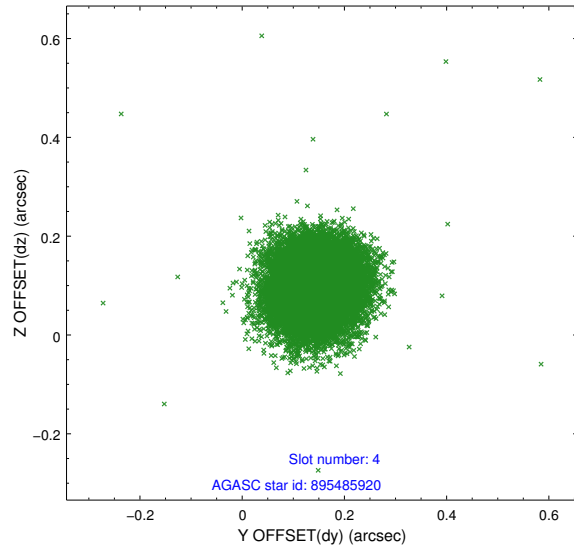
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	9072	-0.099	-0.051	0.025	0.047	0.000000	0.000000	-767.71	-1736.03
1	FID	ACIS-S-4	7.04	9070	0.221	0.059	0.016	0.028	0.000000	0.000000	2145.85	172.55
2	FID	ACIS-S-5	7.07	9071	-0.167	-0.001	0.035	0.045	0.000000	0.000000	-1820.60	166.17
3	GUIDE	894972104	6.86	18143	-0.166	0.091	0.049	0.081	267.489380	-24.207054	-1943.95	1639.30
4	GUIDE	895485920	8.66	18126	0.146	0.101	0.069	0.111	266.932426	-25.188840	1532.92	-289.17
5	GUIDE	895488888	8.53	18140	-0.003	-0.001	0.075	0.121	266.751949	-24.913497	525.67	-850.04
6	GUIDE	895489248	8.82	18125	-0.055	-0.021	0.087	0.142	266.526793	-24.872603	358.93	-1581.19
7	GUIDE	895489704	8.80	18129	0.080	-0.173	0.090	0.148	266.328076	-25.361339	2102.63	-2272.65

2.4 Star Slots

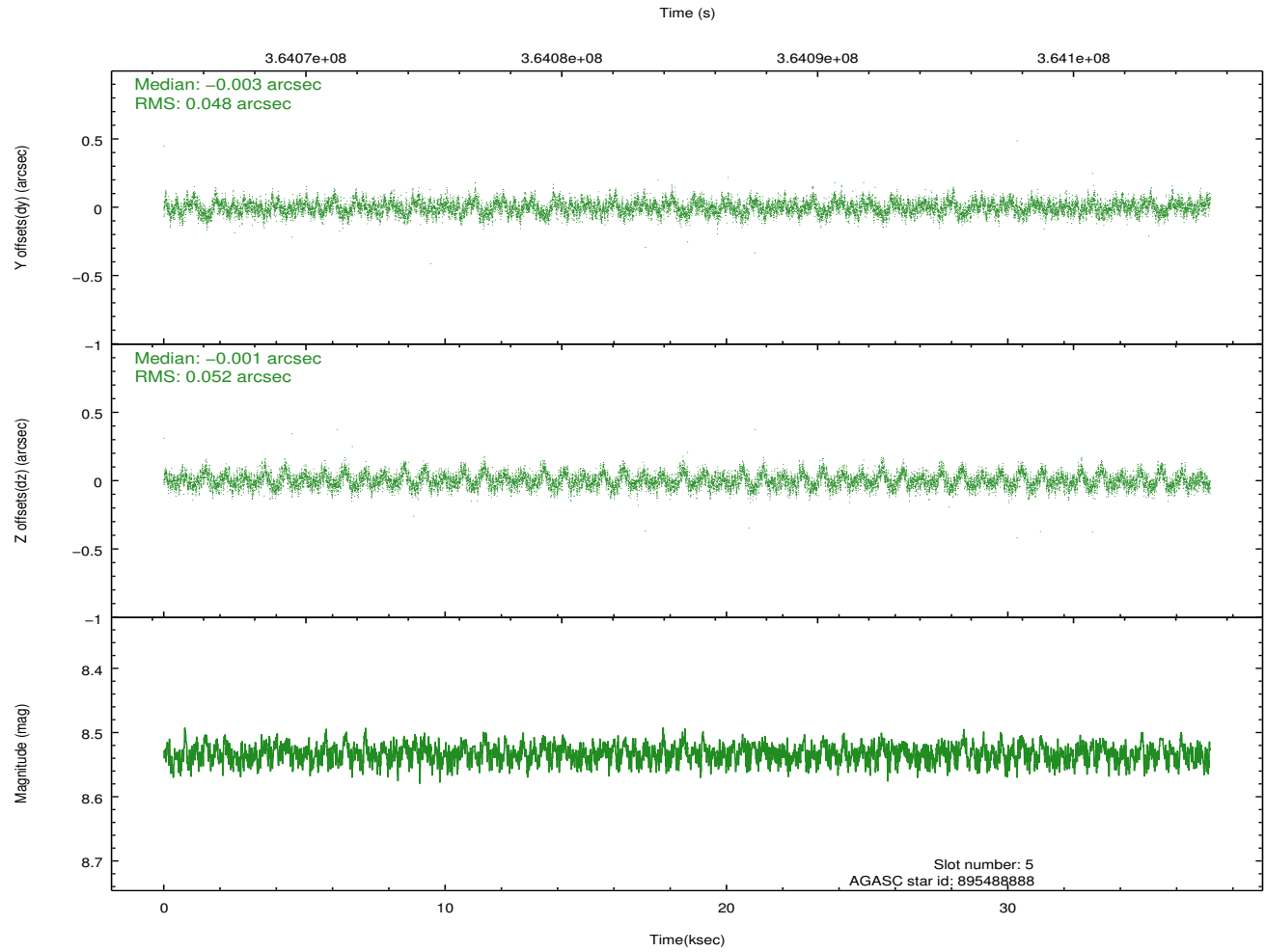
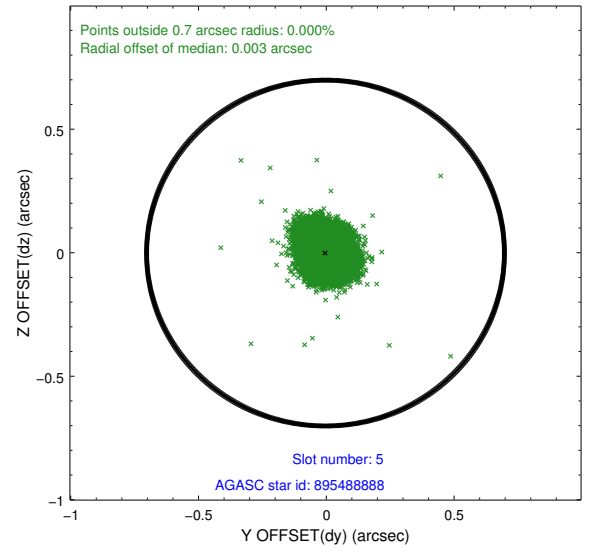
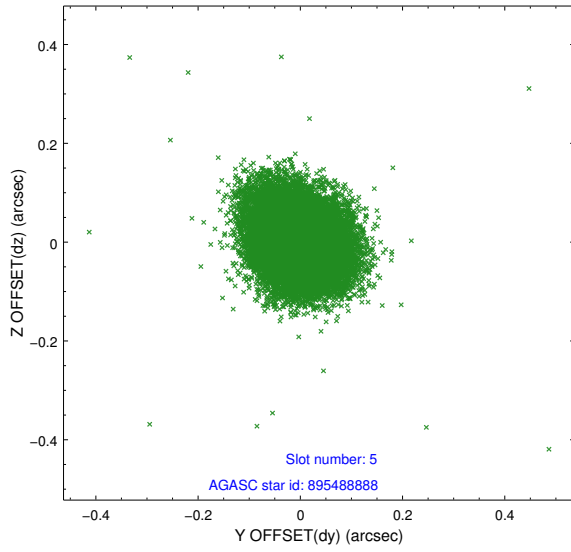
2.4.1 Slot 3



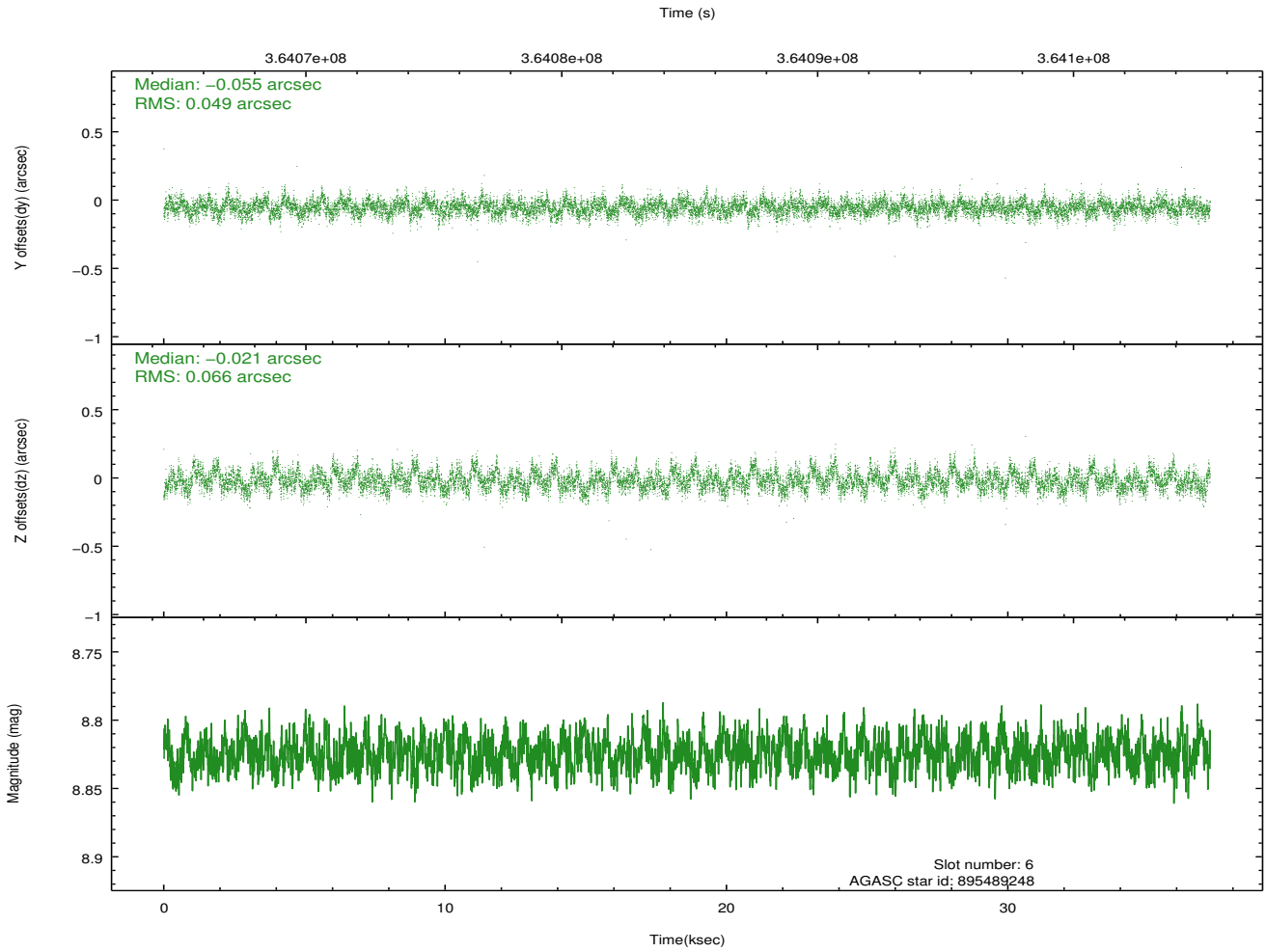
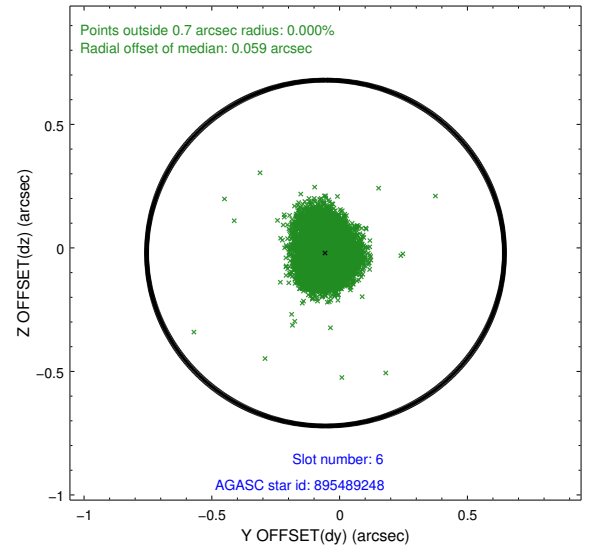
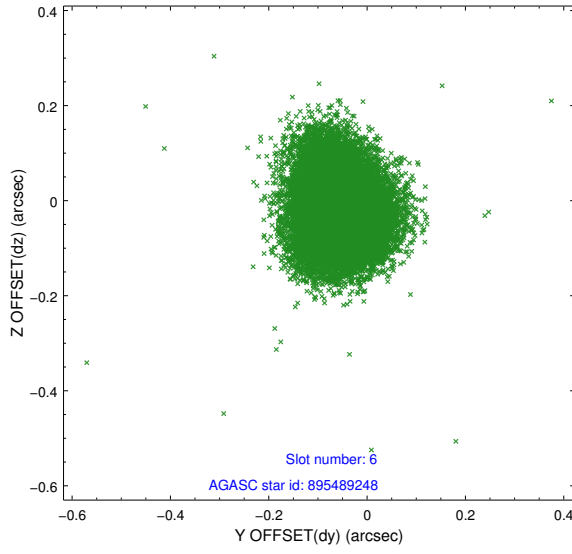
2.4.2 Slot 4



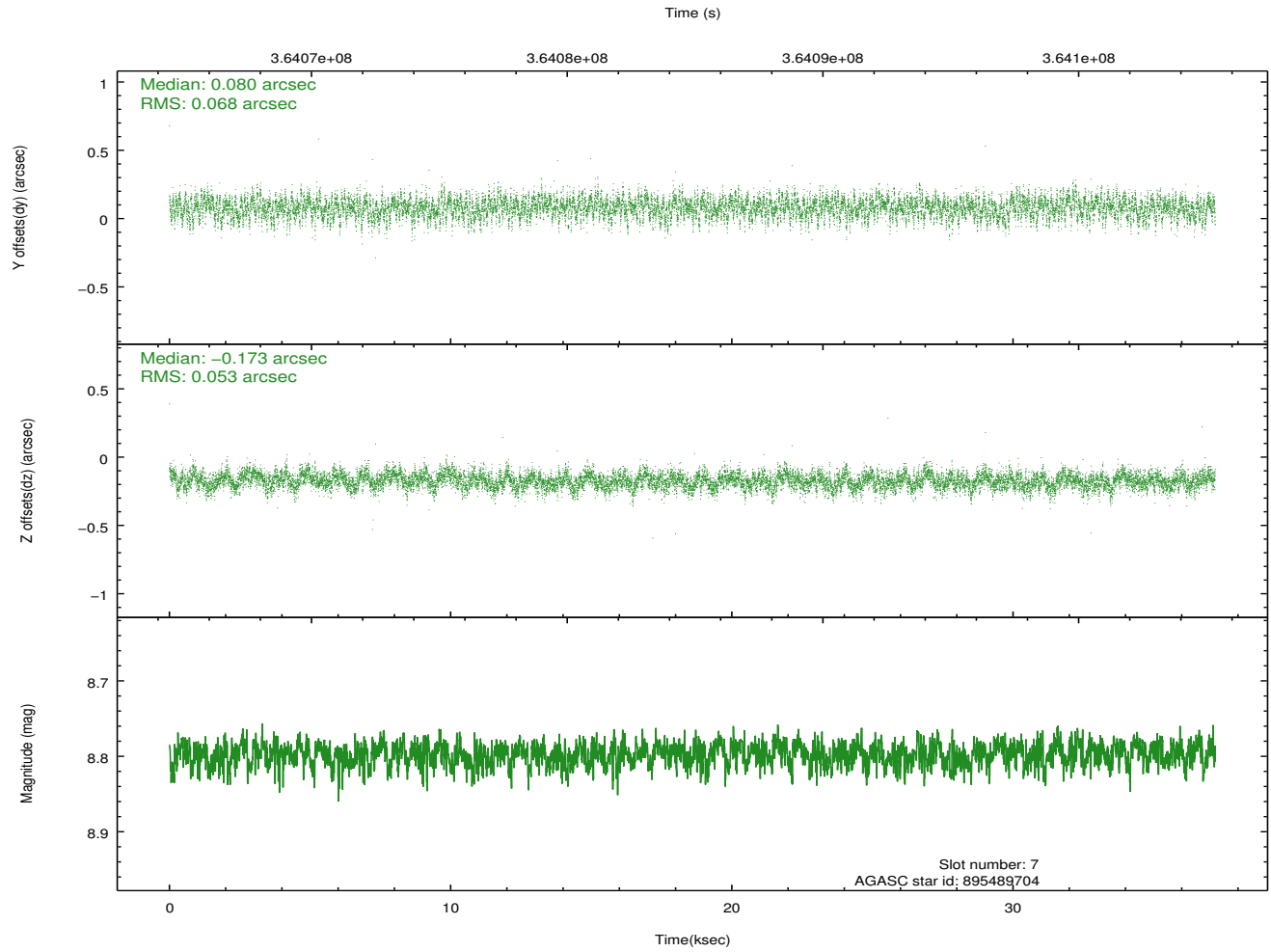
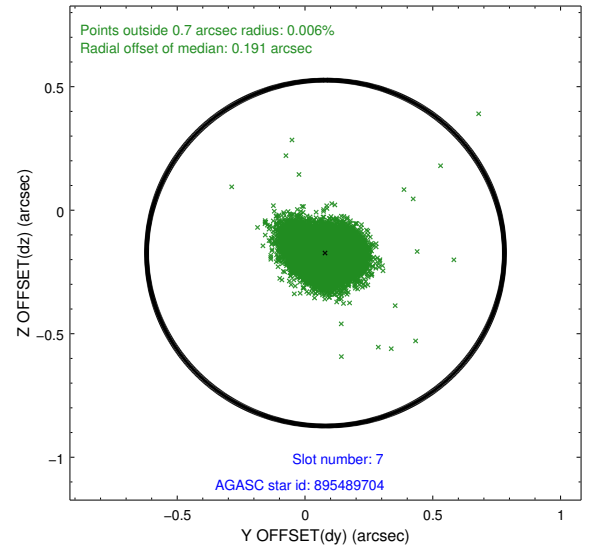
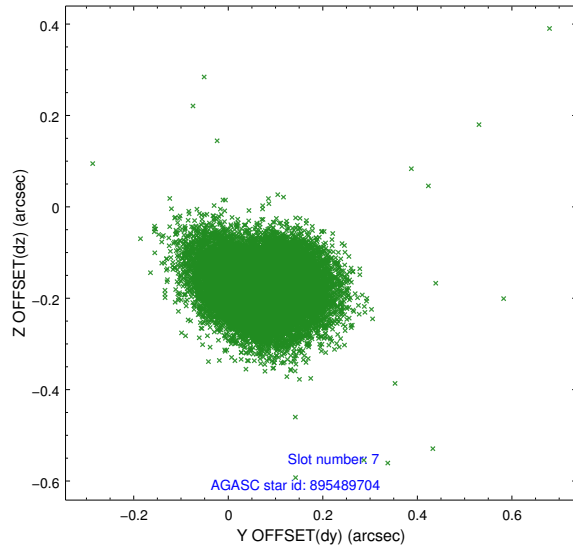
2.4.3 Slot 5



2.4.4 Slot 6

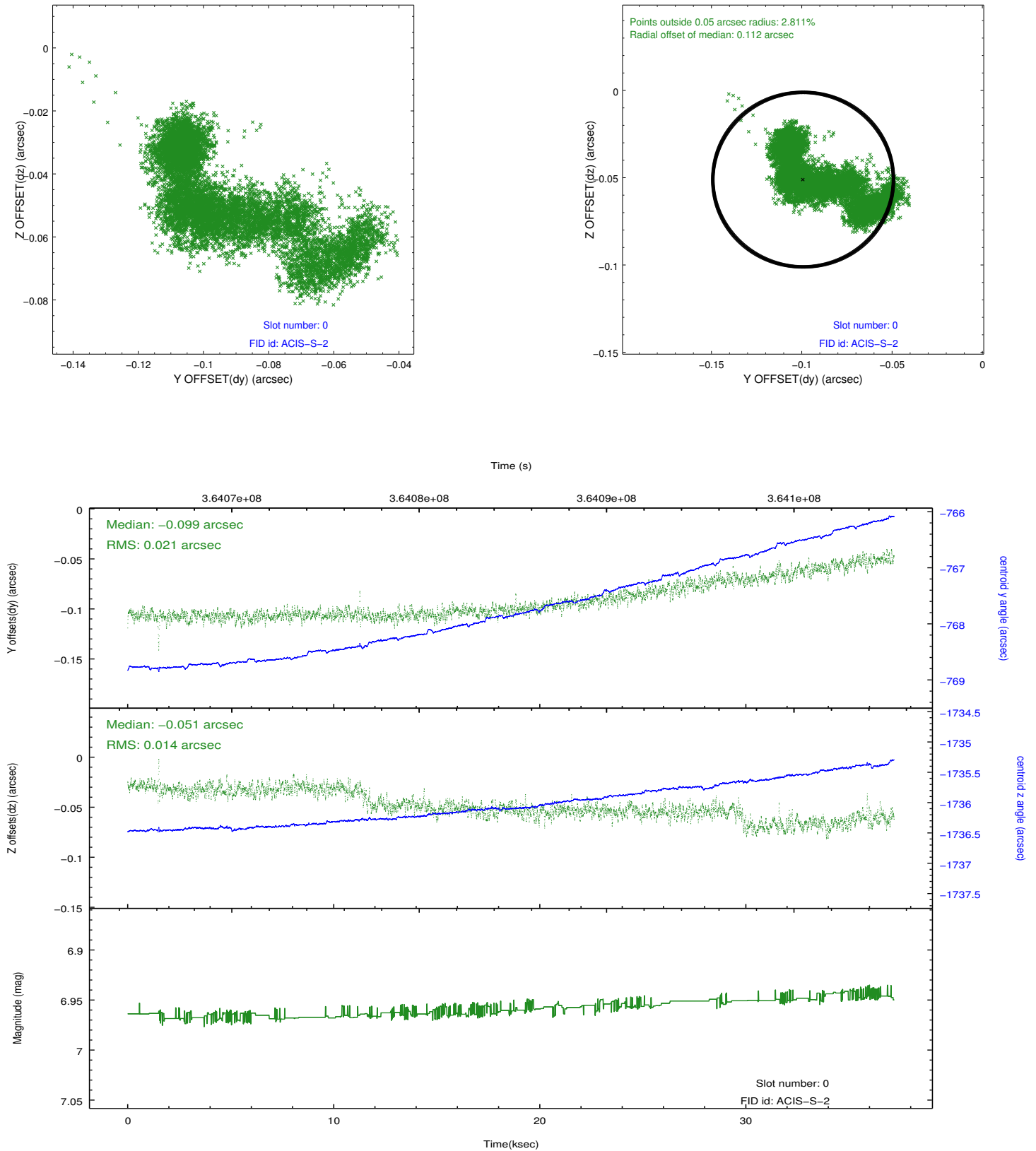


2.4.5 Slot 7

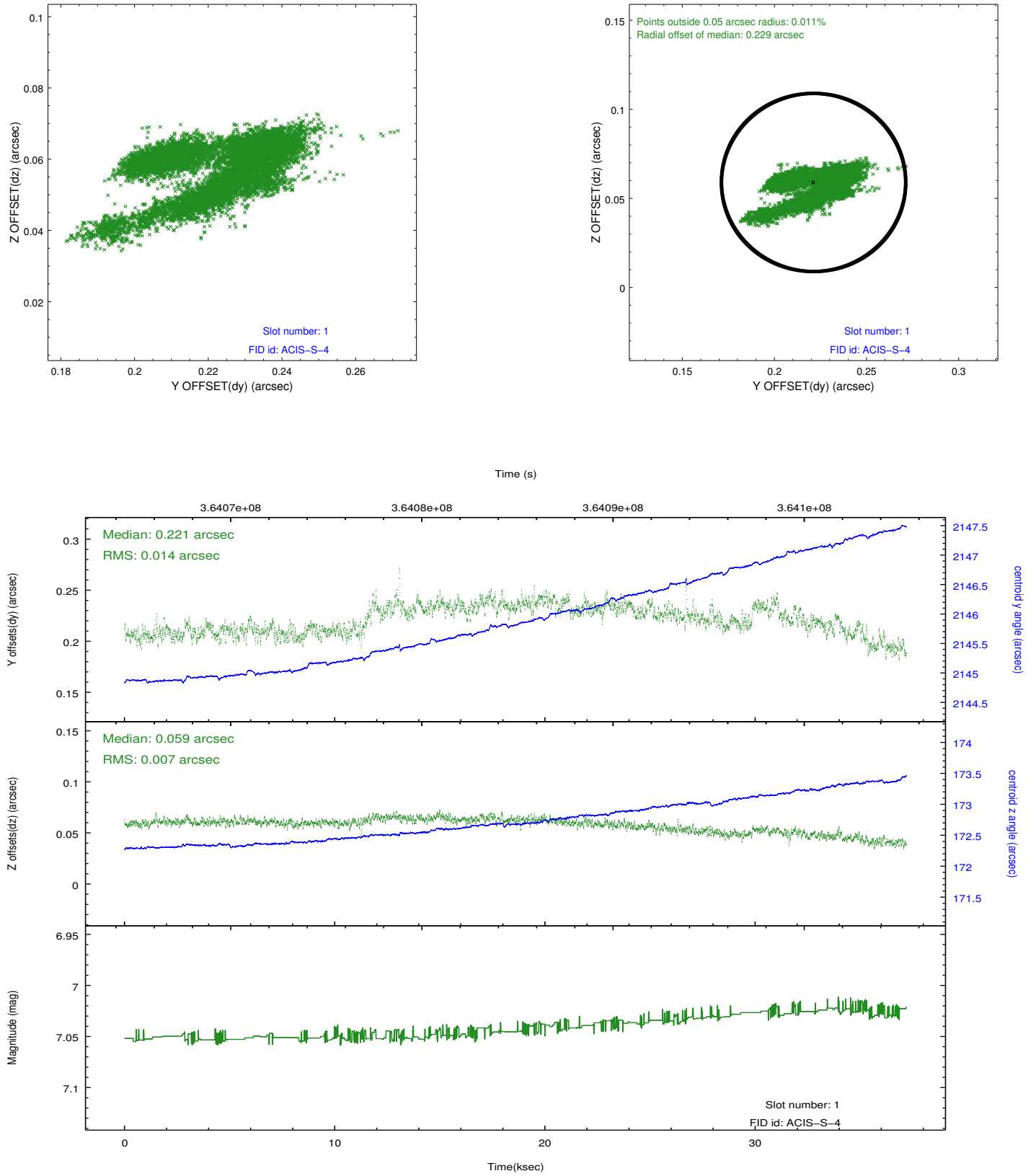


2.5 FID Slots

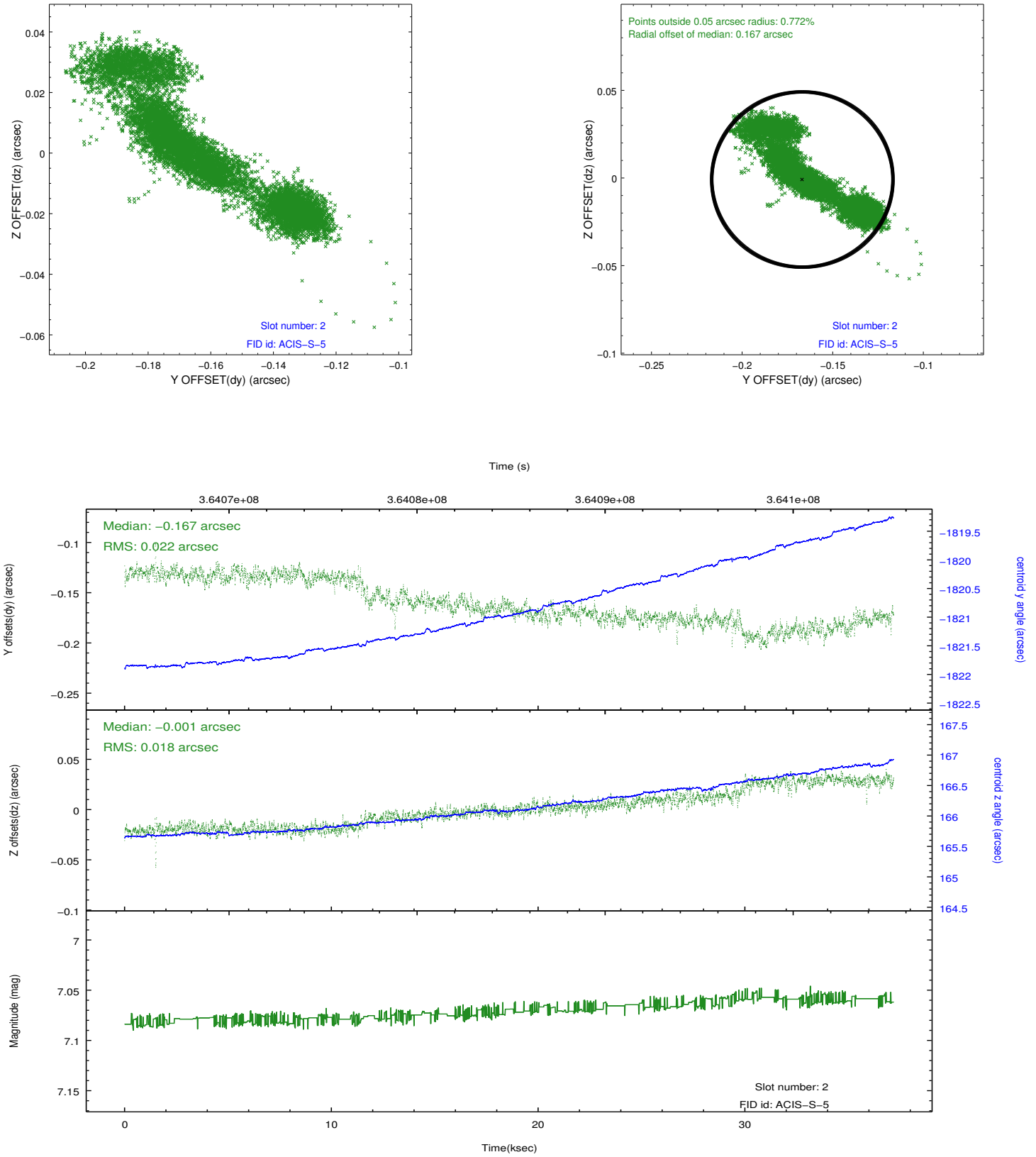
2.5.1 Slot 0



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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.187200554132

A.2 Comments