

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19440 - L2 Version 1
Chandra X-Ray Center

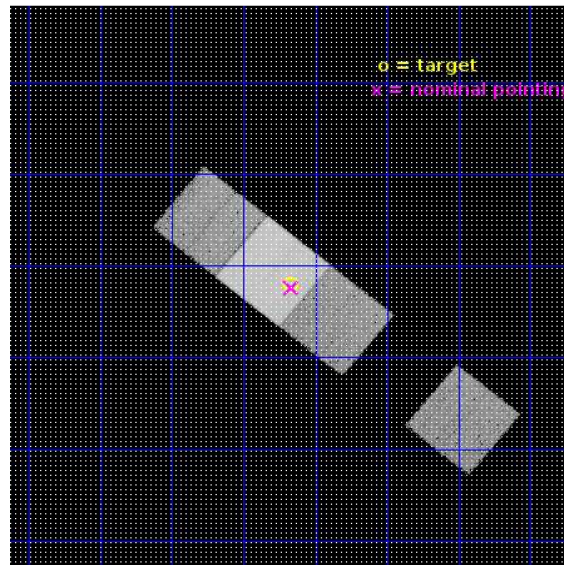
L2 Processing Date : Jun 12 2017

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1 Front

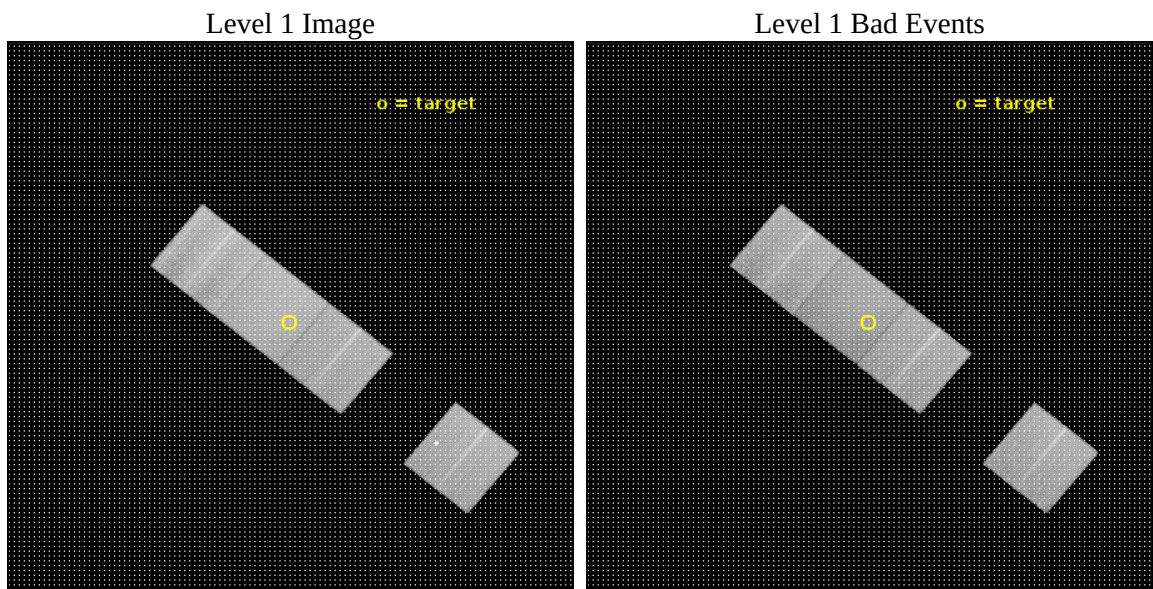
seq_num	601397	Sequence number
obs_id	19440	Observation id
title	Too young to shine? Nearby Primordial Starbursts and the X-ray Scaling Relations in the Early Universe	Proposal title
observer	Antara Basu-zych	Principal investigator
object	J162410.11-002202.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	246.042083	Observer's specified target RA [deg]
dec_targ	-0.367389	Observer's specified target Dec [deg]
ra_nom	246.04162541187	Nominal RA [deg]
dec_nom	-0.37359211028736	Nominal Dec [deg]
roll_nom	219.15664542043	Nominal Roll [deg]
revision	1	Processing version of data
ontime	34313.900264025	Sum of GTIs [s]
livetime	33865.563895549	Livetime [s]
ontime4	34310.75916326	Sum of GTIs [s]
ontime6	34313.900264025	Sum of GTIs [s]
ontime7	34313.900264025	Sum of GTIs [s]
ontime8	34310.759183764	Sum of GTIs [s]
l2events	214328	Number of level 2 events



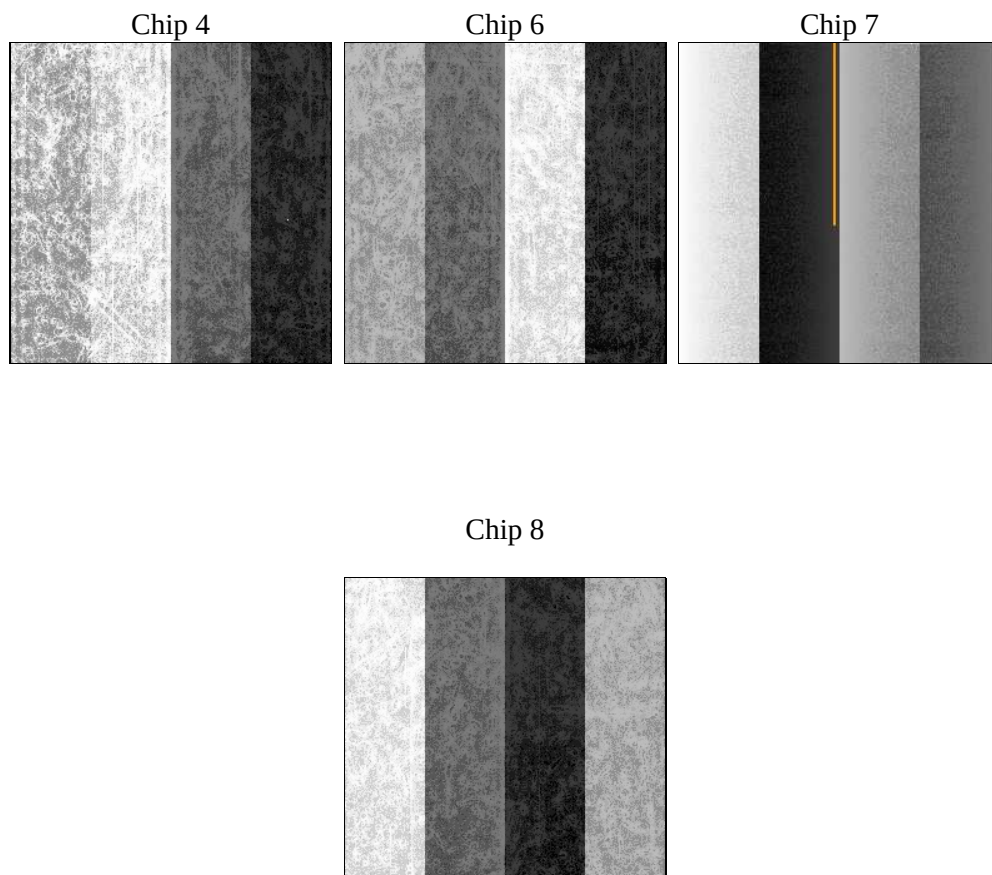
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34200.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	34313.900264025	Sum of GTIs [s]
caldsver	4.7.4	 	ontime4	34310.75916326	Sum of GTIs [s]
date	2017-06-13T00:30:45	Date and time of file creation	ontime6	34313.900264025	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	34313.900264025	Sum of GTIs [s]
			ontime8	34310.759183764	Sum of GTIs [s]
			l1events	1216868	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 6	ccd 7	ccd 8
level 1 events	290052	261943	324344	340529
rejected events	252843	232724	181854	248998
rejected %	87%	88%	56%	73%

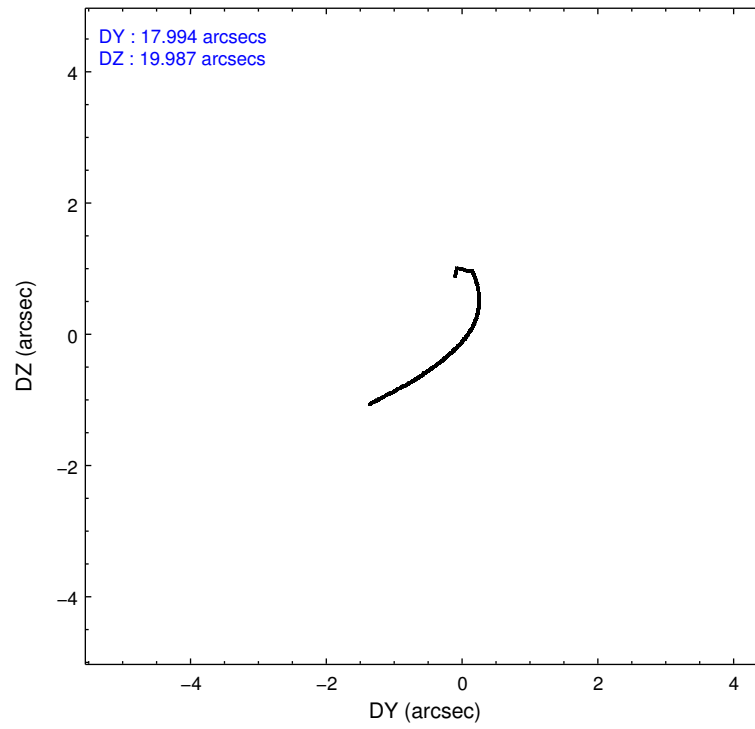
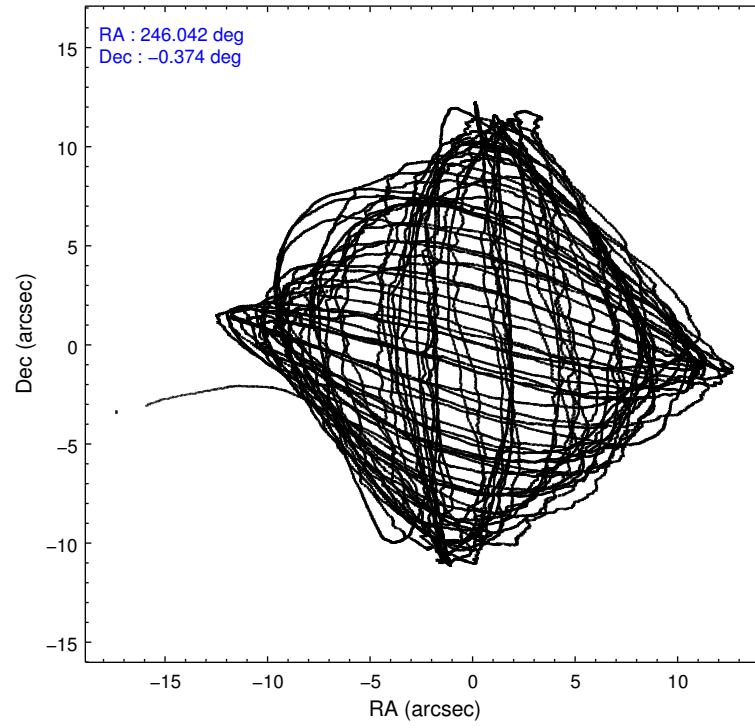
	ccd 4	ccd 6	ccd 7	ccd 8
grade 0 events	18098	9963	12296	25886
	6%	3%	3%	7%
grade 1 events	271	121	479	269
	0%	0%	0%	0%
grade 2 events	7552	6779	30366	22307
	2%	2%	9%	6%
grade 3 events	3322	2840	11640	9516
	1%	1%	3%	2%
grade 4 events	3124	2866	11614	8816
	1%	1%	3%	2%
grade 5 events	11723	12101	32539	18217
	4%	4%	10%	5%
grade 6 events	5114	6772	76585	25019
	1%	2%	23%	7%
grade 7 events	240848	220501	148825	230499
	83%	84%	45%	67%

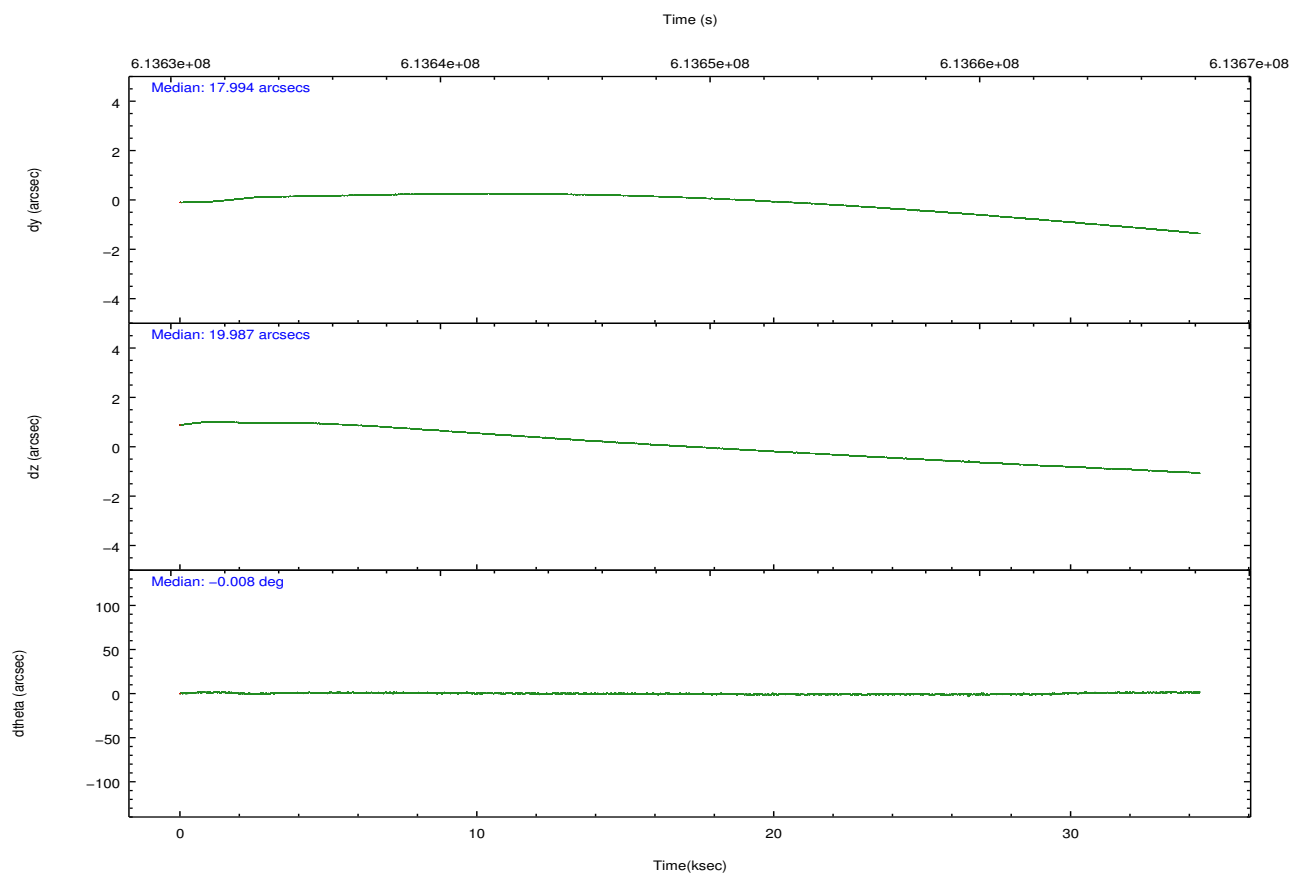
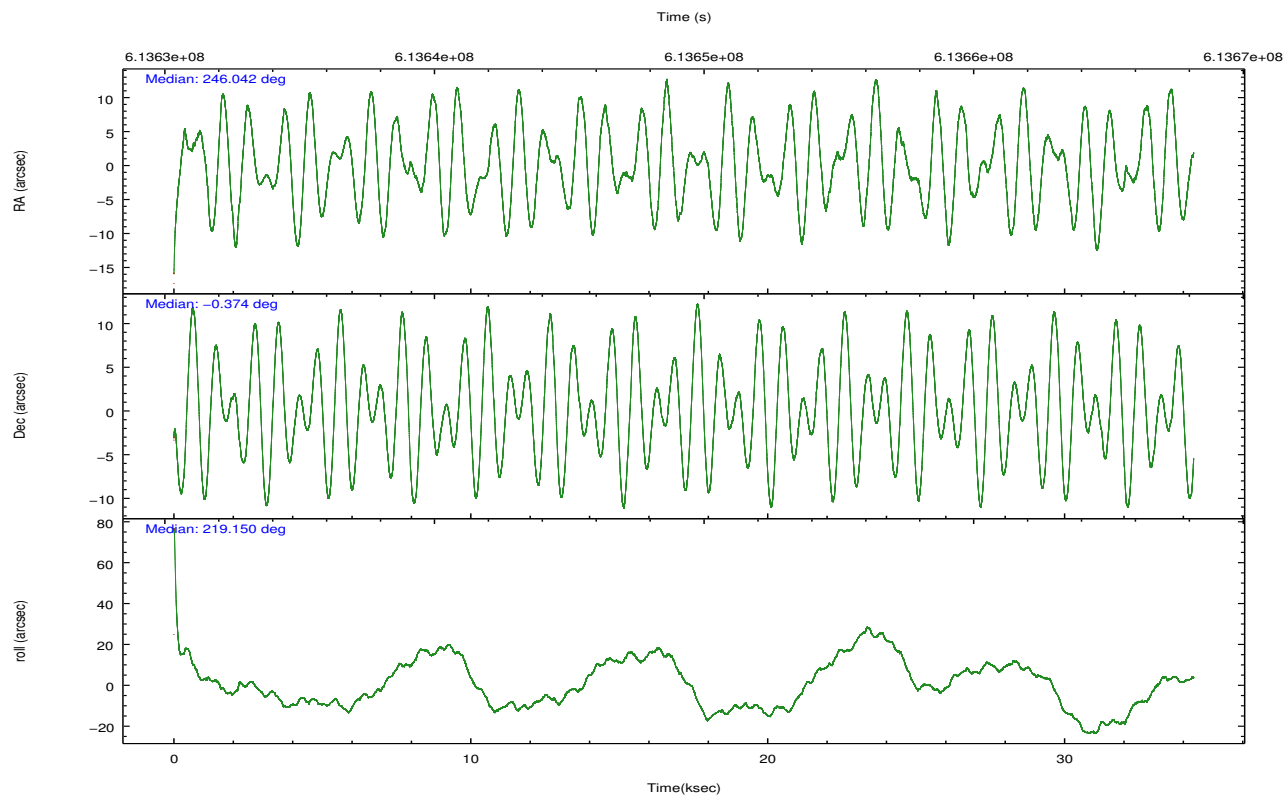
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-4678	ACIS-4678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	246.051063	246.0416254118736
[deg] Pointing Dec	-0.347790	-0.3735921102873582
[deg] Pointing Roll	219.000058	219.1566454204306
[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)	613632229.184000	613630853.2891999
Observation start date	2017-06-12T05:22:40	2017-06-12T05:00:53
[s] Observation end time (MET)	613666429.184000	613667243.86631
Observation end date	2017-06-12T14:52:40	2017-06-12T15:07:23
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	O3	Y
CCD S1 on	O2	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O1	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



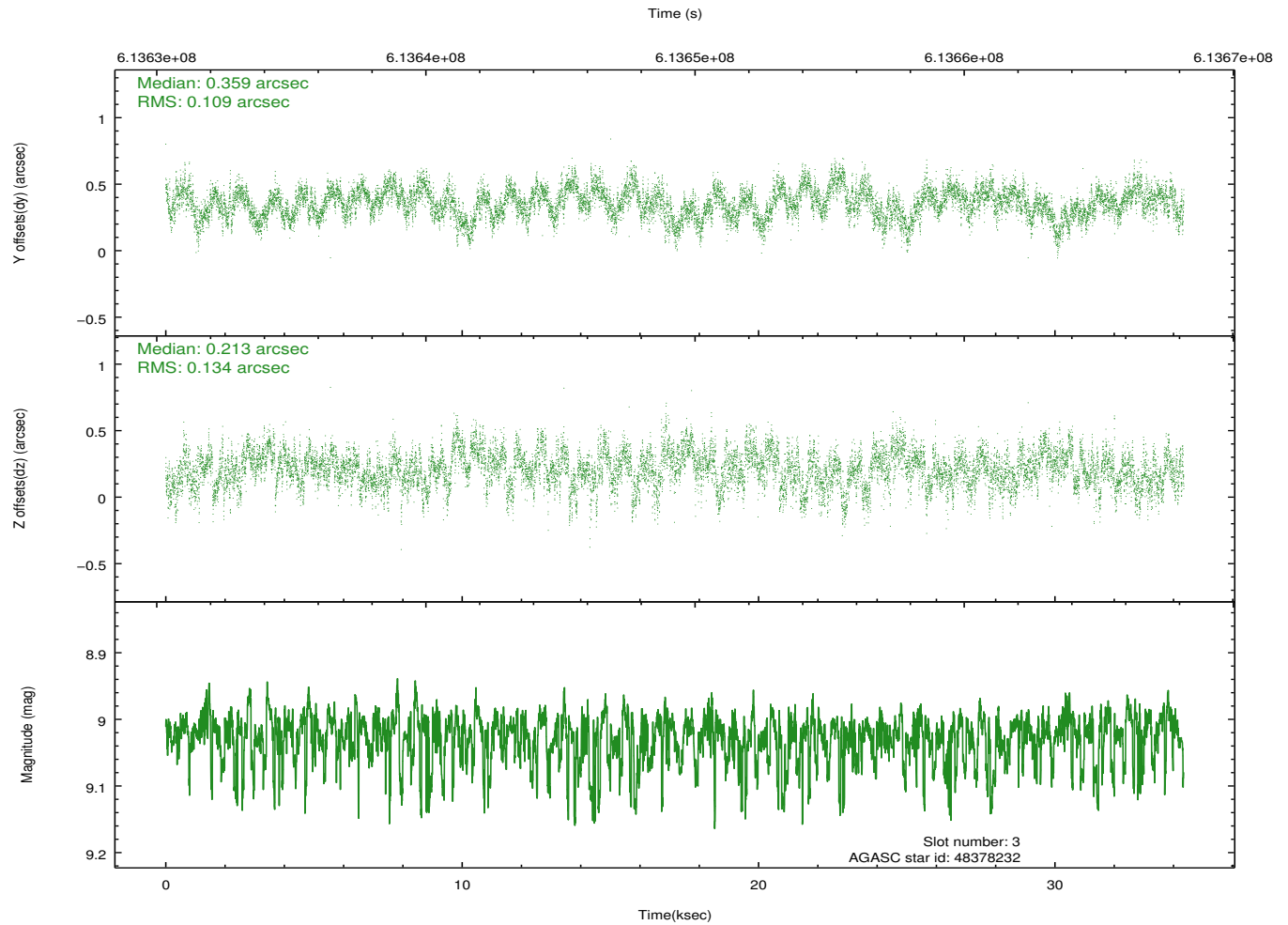
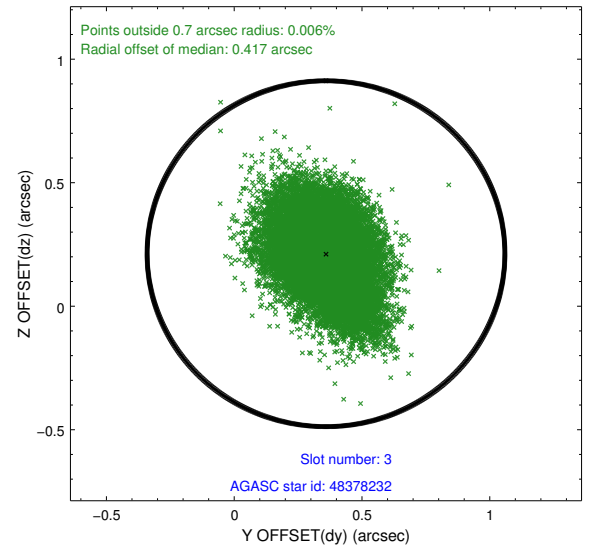
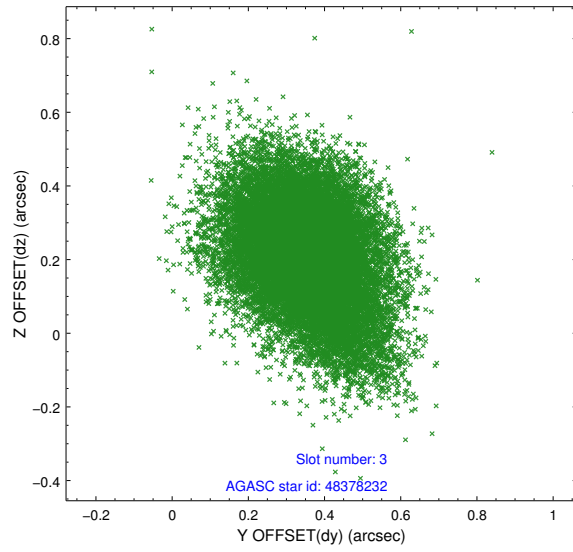


Slot Statistics

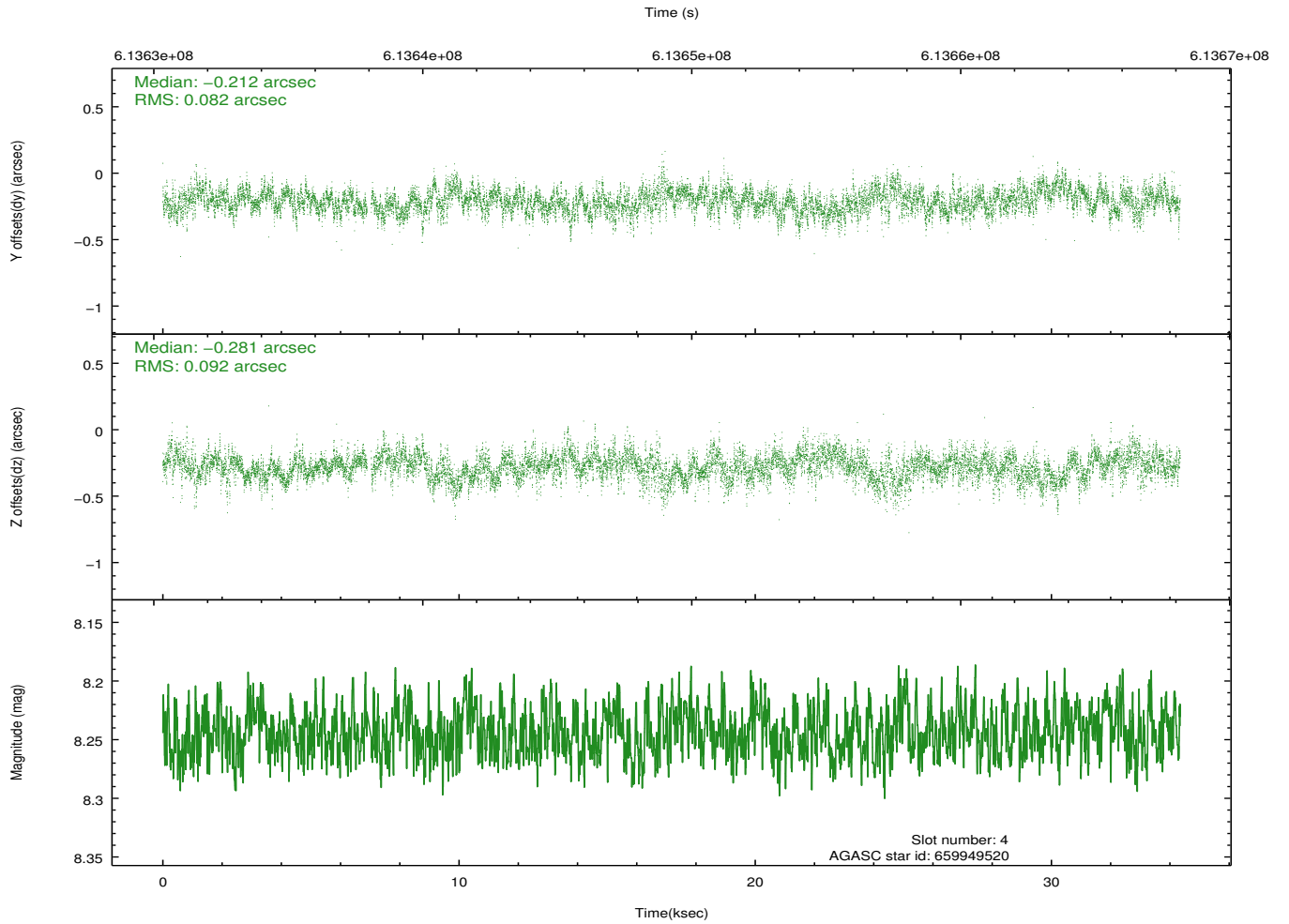
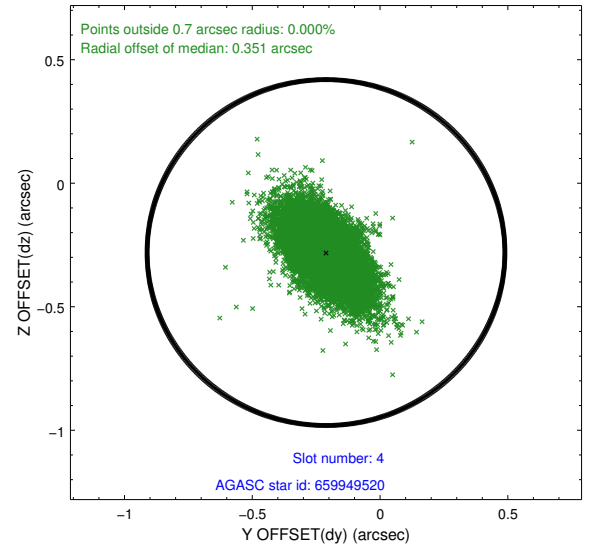
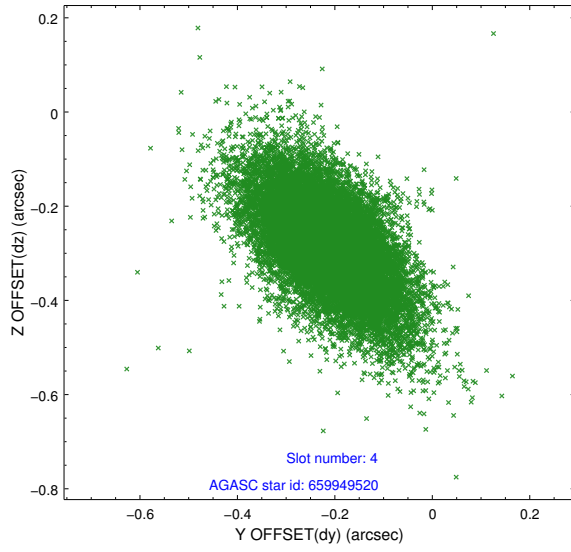
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.07	8378	0.043	-0.084	0.026	0.050	0.000000	0.000000	925.30	-1737.20
1	FID		ACIS-S-4	7.08	8378	0.390	0.044	0.021	0.040	0.000000	0.000000	2142.99	167.08
2	FID		ACIS-S-5	7.07	8375	-0.459	0.053	0.012	0.021	0.000000	0.000000	-1824.10	160.56
3	GUIDE	used	48378232	9.02	16738	0.359	0.213	0.182	0.302	245.894028	0.099230	-572.20	-1607.07
4	GUIDE	used	659949520	8.24	16683	-0.212	-0.281	0.125	0.226	245.789348	-0.708058	1552.18	416.27
5	GUIDE	used	659950792	7.69	16751	-0.337	-0.239	0.119	0.225	245.774659	-0.856177	1925.38	796.08
6	GUIDE	used	659952168	7.83	16750	0.086	0.194	0.124	0.219	246.101836	-0.196686	-483.75	-307.58
7	GUIDE	used	659952736	8.23	16745	0.102	0.123	0.124	0.220	245.781600	-0.263517	564.40	-846.37

2.4 Star Slots

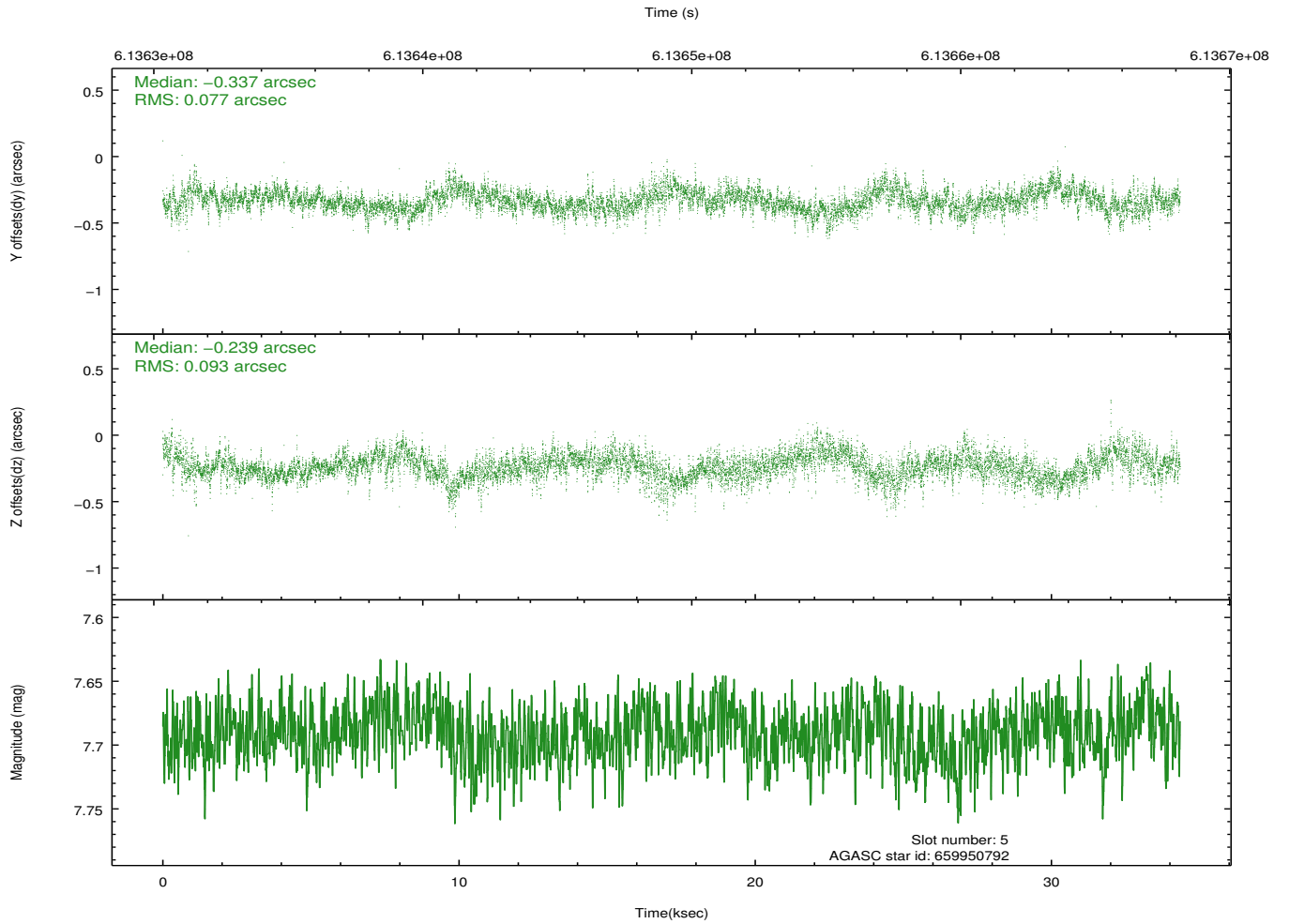
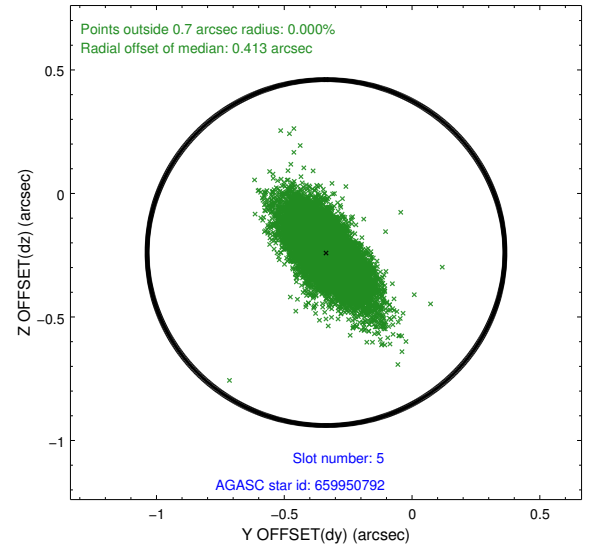
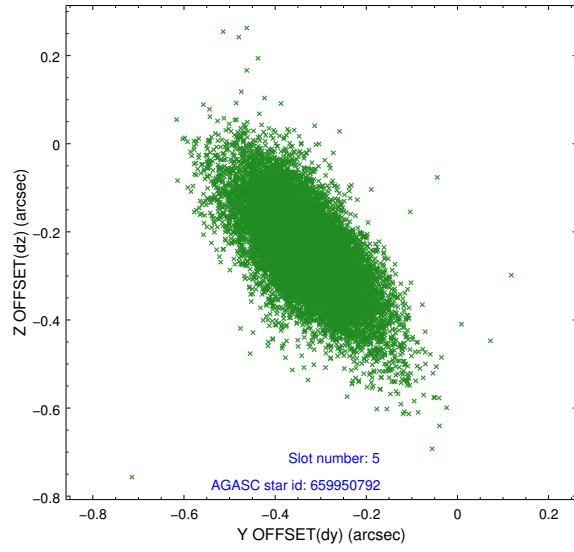
2.4.1 Slot 3



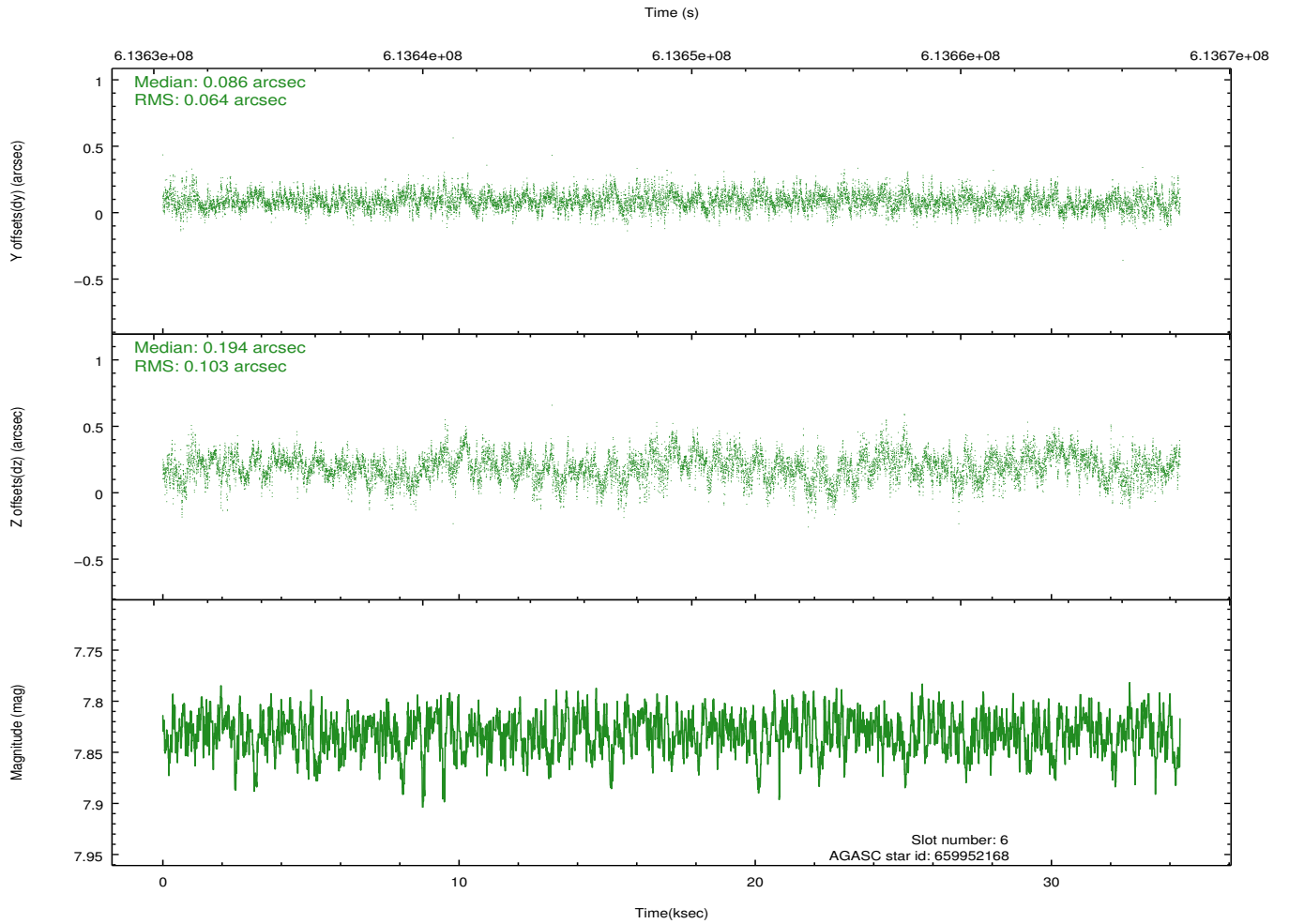
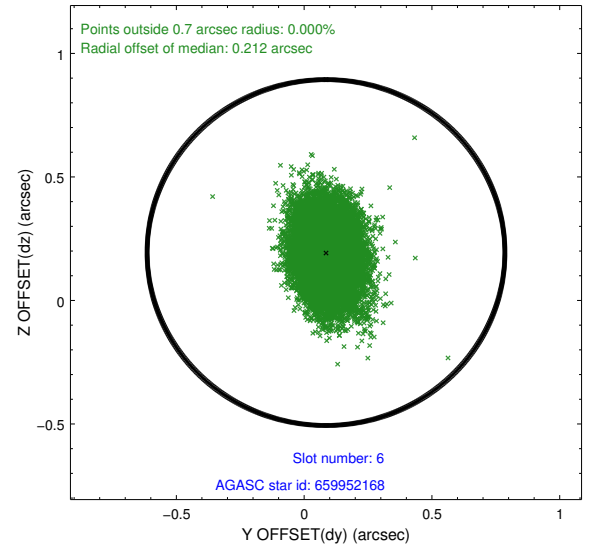
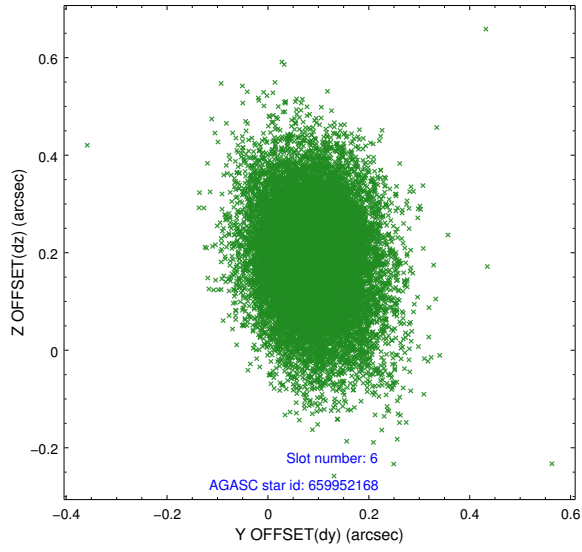
2.4.2 Slot 4



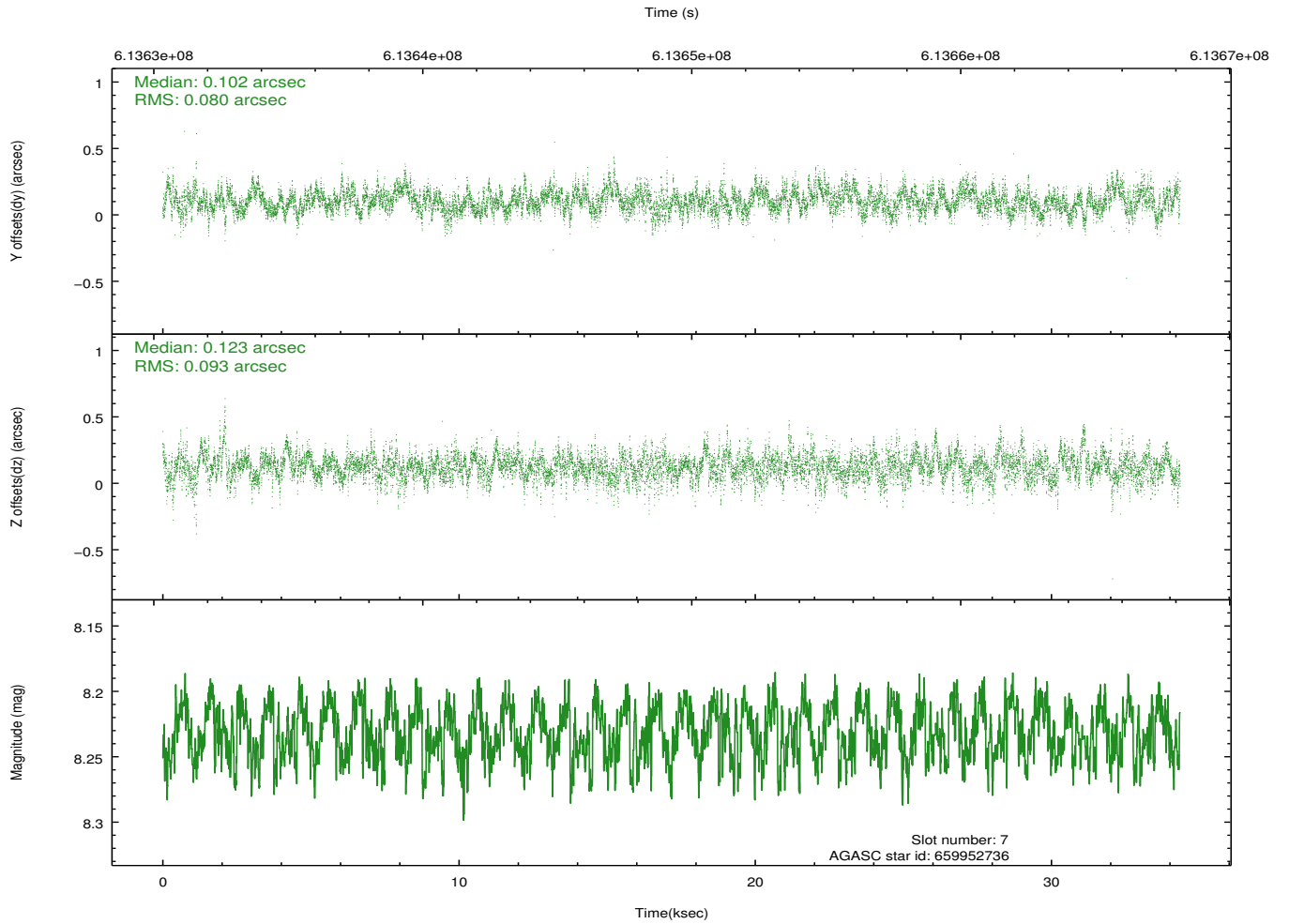
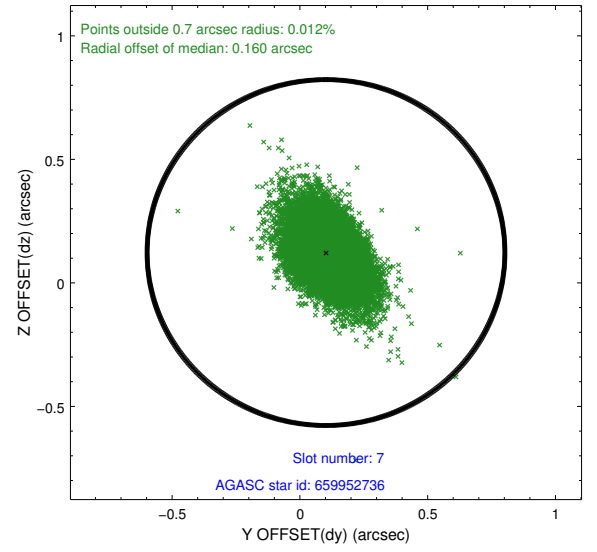
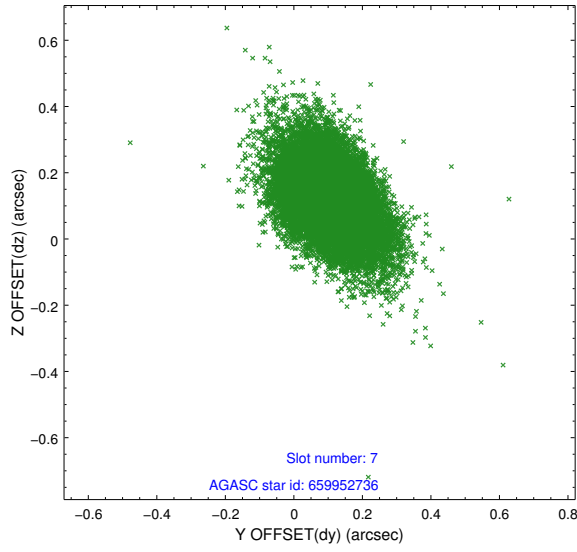
2.4.3 Slot 5



2.4.4 Slot 6

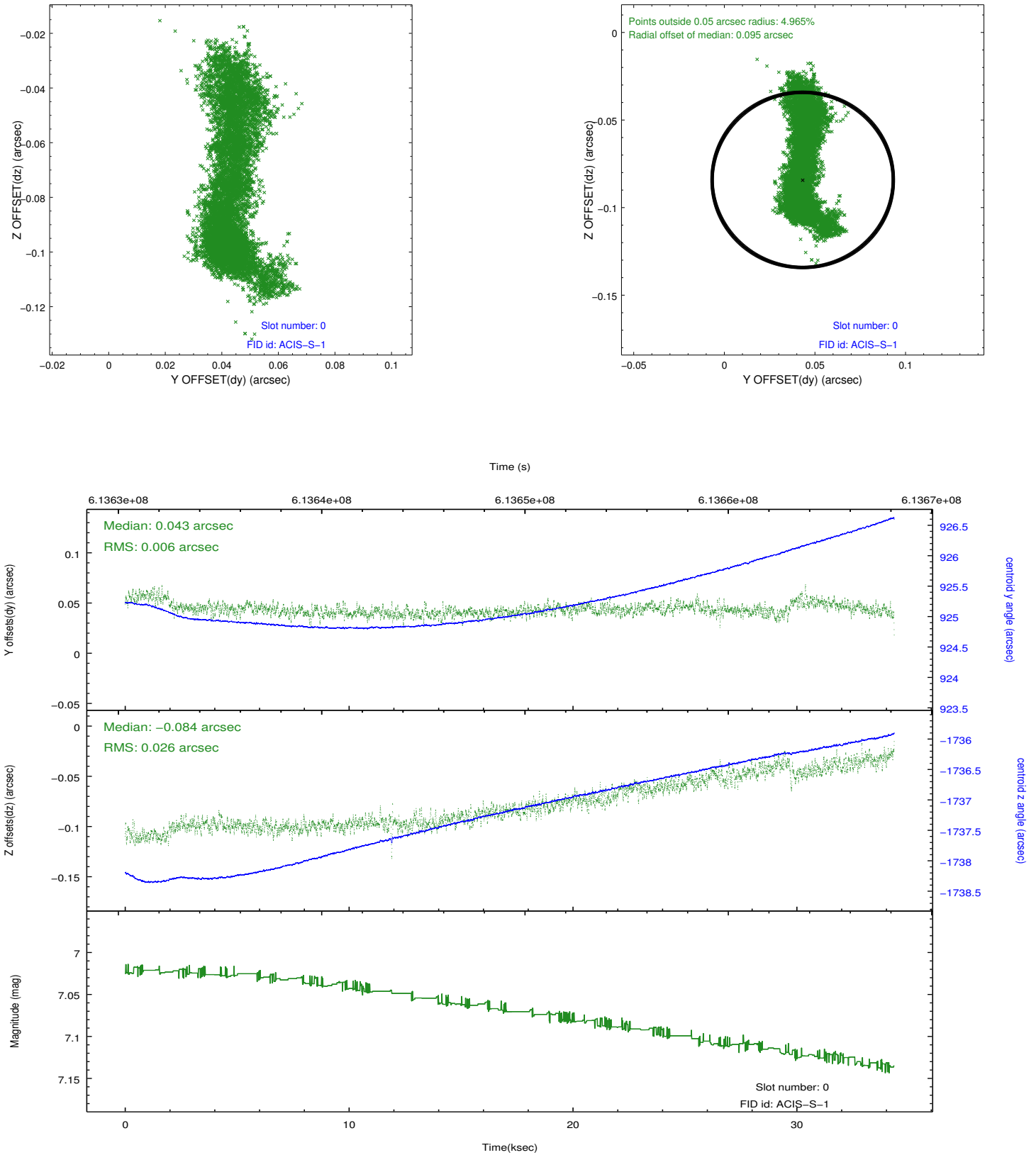


2.4.5 Slot 7

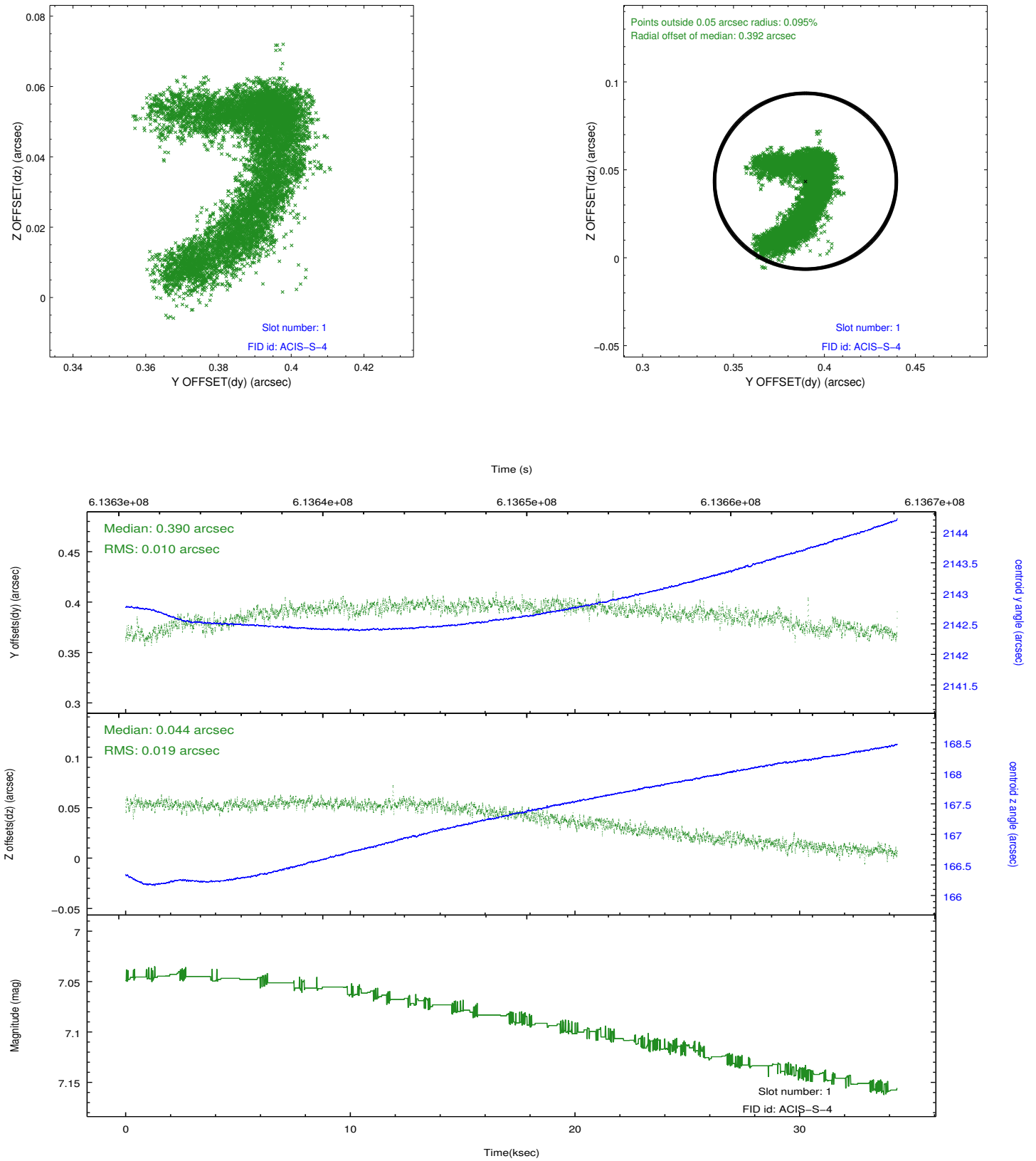


2.5 FID Slots

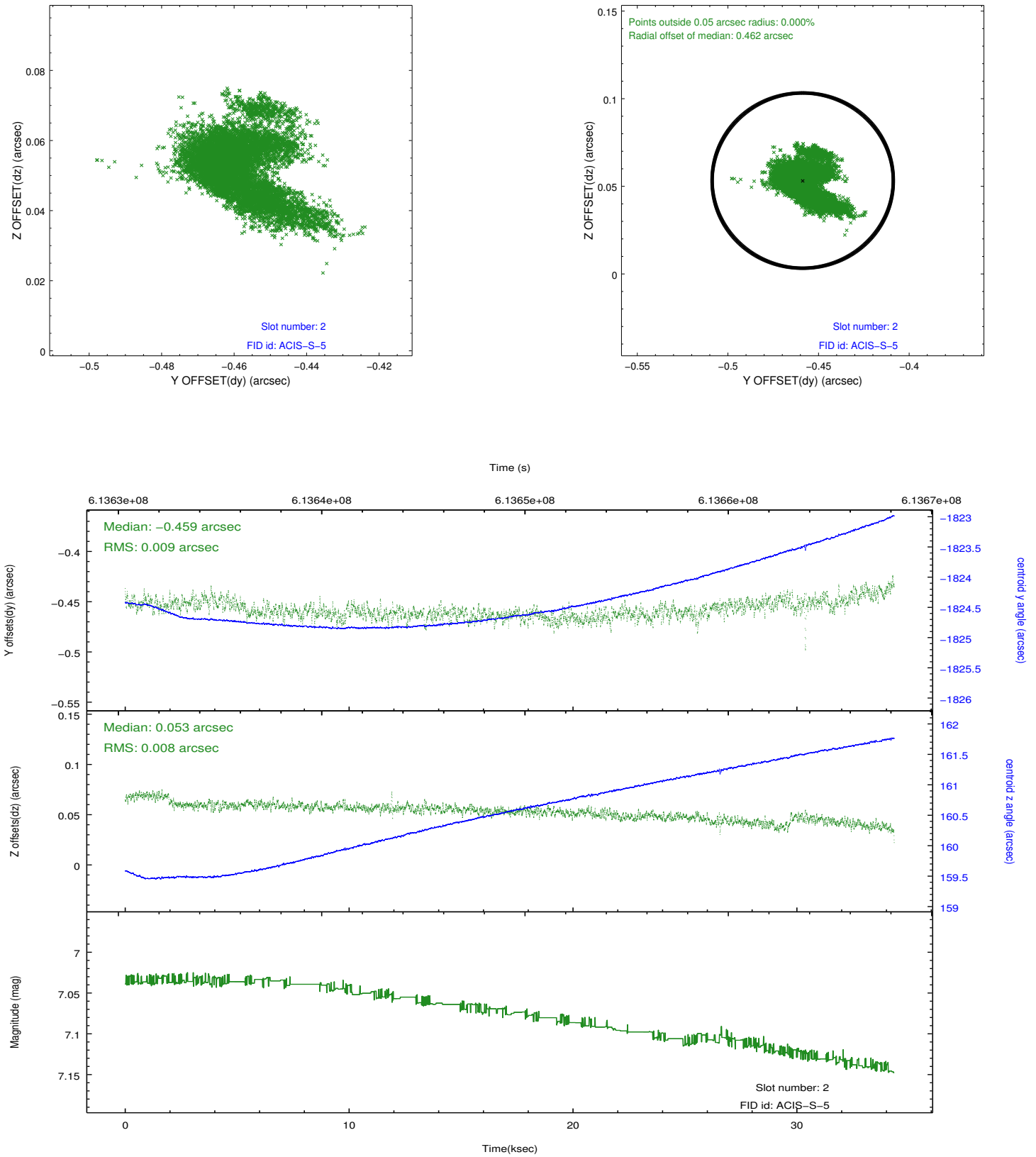
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.313900264025

A.2 Comments