

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19558 - L2 Version 2
Chandra X-Ray Center

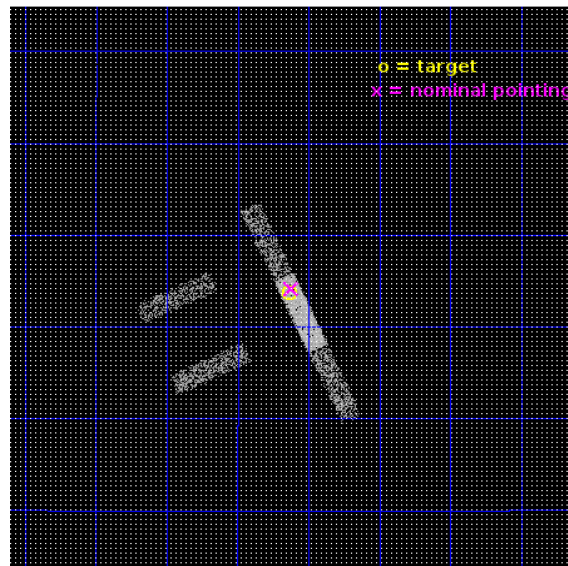
L2 Processing Date : Feb 1 2017

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1 Front

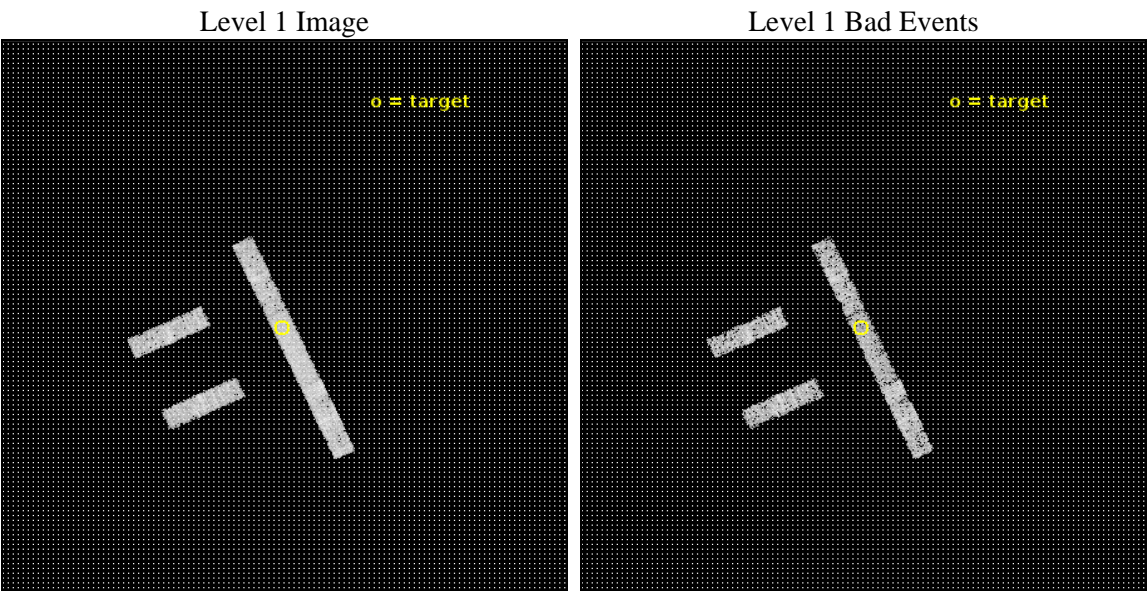
seq_num	703406	Sequence number
obs_id	19558	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ155837.77+081345.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.6575	Observer's specified target RA [deg]
dec_targ	8.229389	Observer's specified target Dec [deg]
ra_nom	239.65505238128	Nominal RA [deg]
dec_nom	8.2358946344315	Nominal Dec [deg]
roll_nom	65.175707422994	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3570.7823399305	Sum of GTIs [s]
livetime	3430.0145430824	Livetime [s]
ontime2	3570.6181799173	Sum of GTIs [s]
ontime3	3570.7002599239	Sum of GTIs [s]
ontime6	3570.7412999868	Sum of GTIs [s]
ontime7	3570.7823399305	Sum of GTIs [s]
ontime8	3570.6592199802	Sum of GTIs [s]
l2events	7004	Number of level 2 events



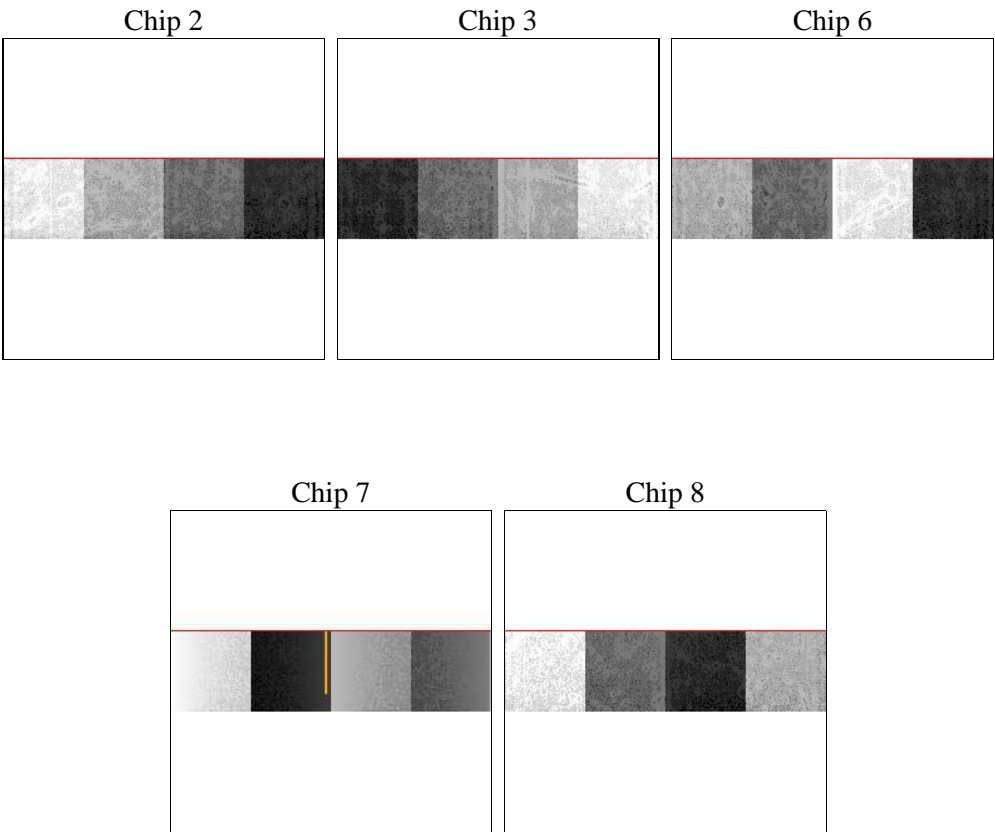
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



Chip 7



Chip 8



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3570.7823399305	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3570.6181799173	Sum of GTIs [s]
date	2017-02-01T23:55:53	Date and time of file creation	ontime3	3570.7002599239	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3570.7412999868	Sum of GTIs [s]
			ontime7	3570.7823399305	Sum of GTIs [s]
			ontime8	3570.6592199802	Sum of GTIs [s]
			l1events	41490	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	7115	7590	7375	9149	10261
rejected events	6326	6767	6478	4870	7672
rejected %	88%	89%	87%	53%	74%

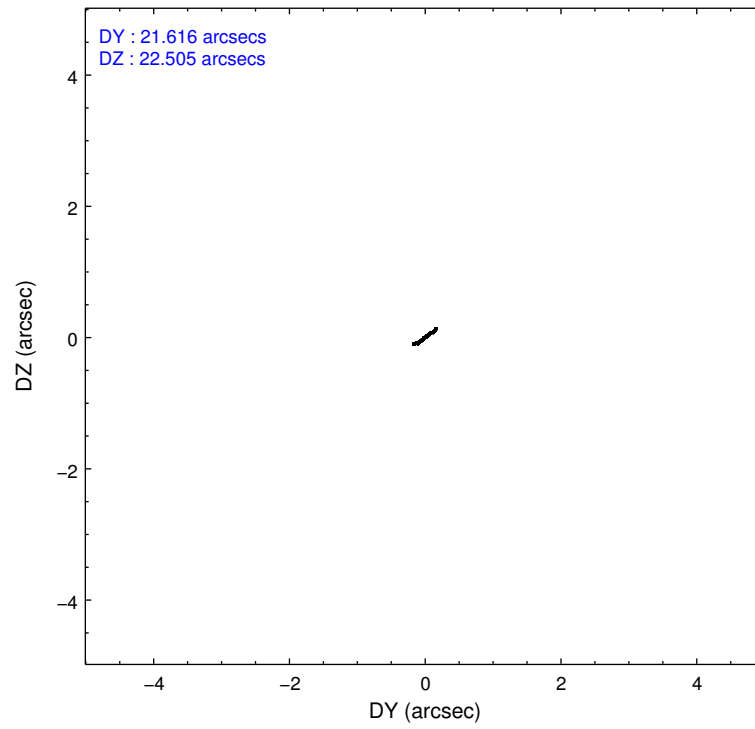
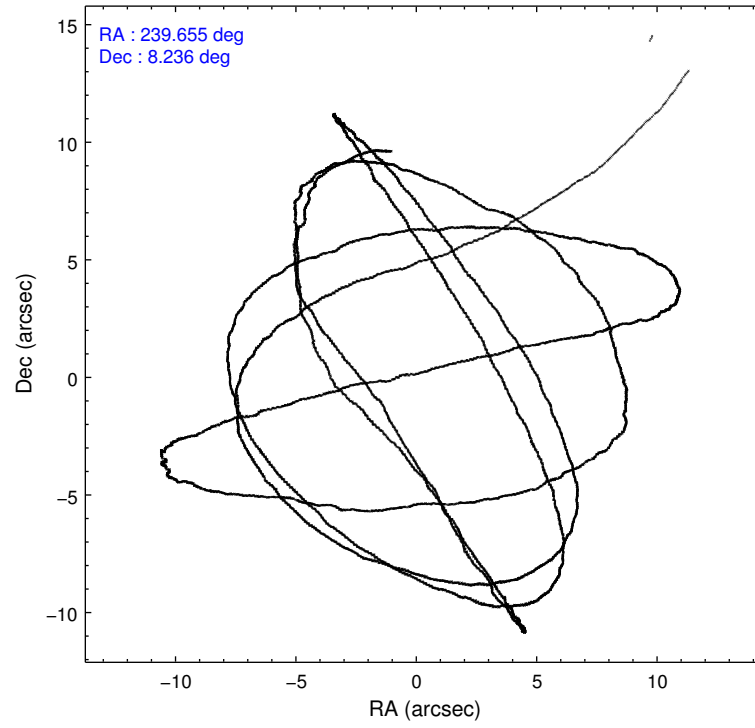
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	264	285	264	452	762
	3%	3%	3%	4%	7%
grade 1 events	5	3	2	20	10
	0%	0%	0%	0%	0%
grade 2 events	166	155	187	890	585
	2%	2%	2%	9%	5%
grade 3 events	110	112	138	446	290
	1%	1%	1%	4%	2%
grade 4 events	117	128	123	465	273
	1%	1%	1%	5%	2%
grade 5 events	284	292	340	986	397
	3%	3%	4%	10%	3%
grade 6 events	132	144	185	2033	680
	1%	1%	2%	22%	6%
grade 7 events	6037	6471	6136	3857	7264
	84%	85%	83%	42%	70%

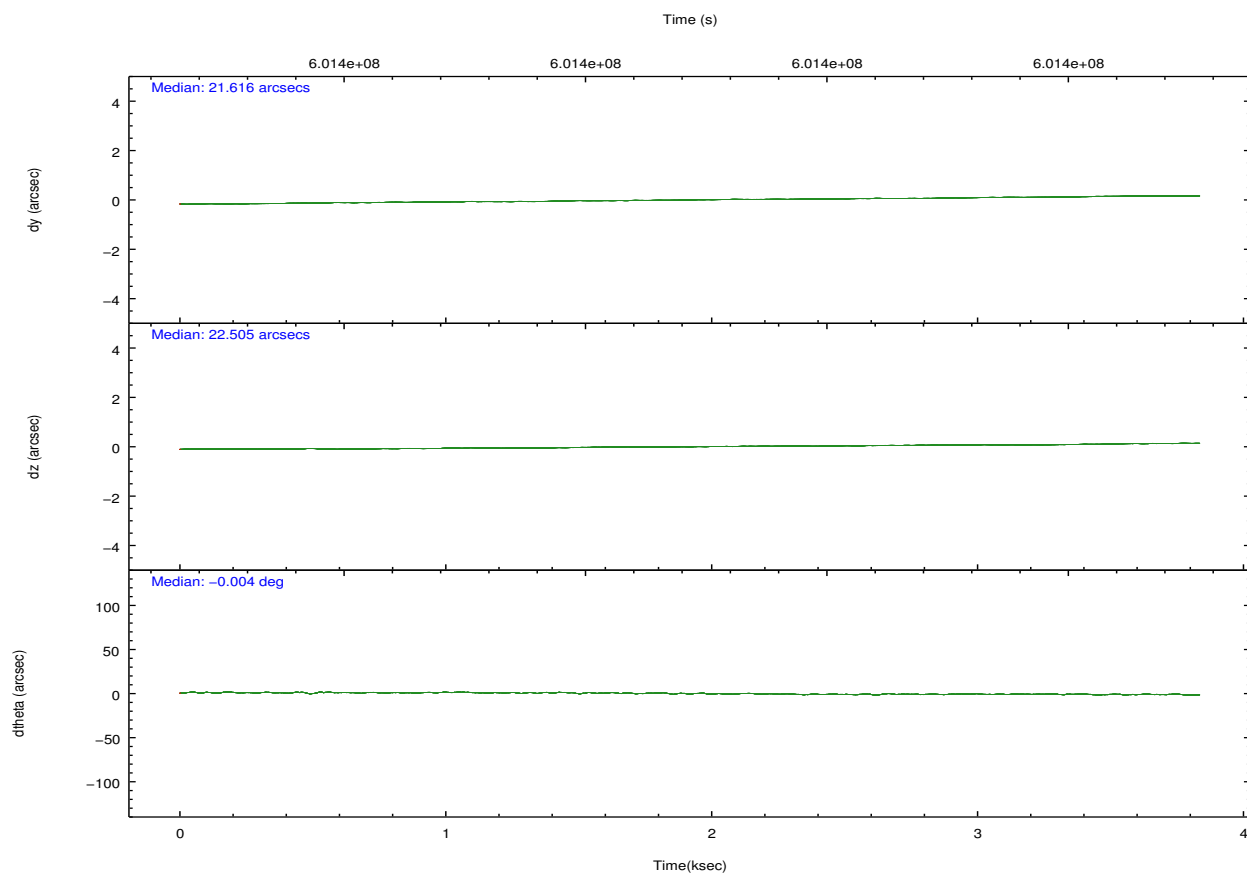
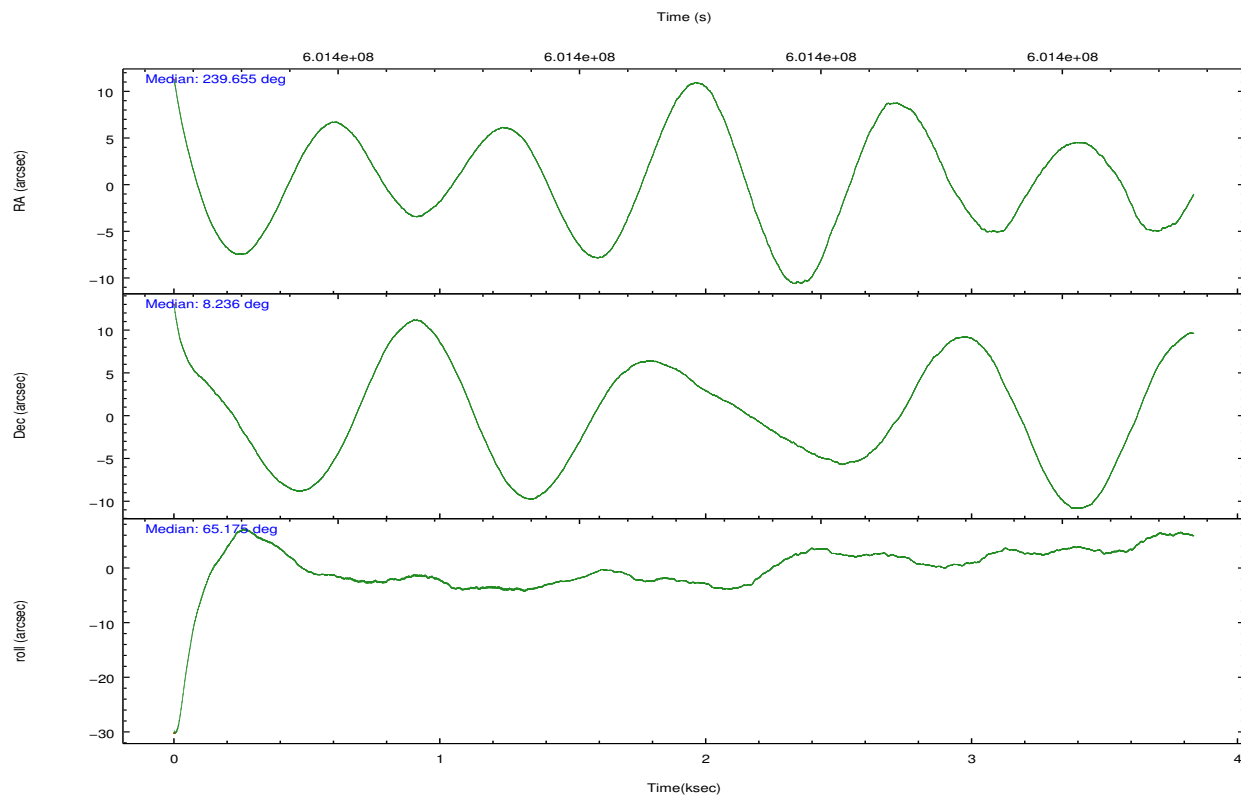
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	239.658045	239.6550523812801
[deg] Pointing Dec	8.208600	8.235894634431476
[deg] Pointing Roll	65.018765	65.17570742299388
[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)	601400874.184000	601398992.01659
Observation start date	2017-01-21T15:46:45	2017-01-21T15:16:32
[s] Observation end time (MET)	601404374.184000	601405262.9669501
Observation end date	2017-01-21T16:45:05	2017-01-21T17:01:02
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	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

2.3 Aspect



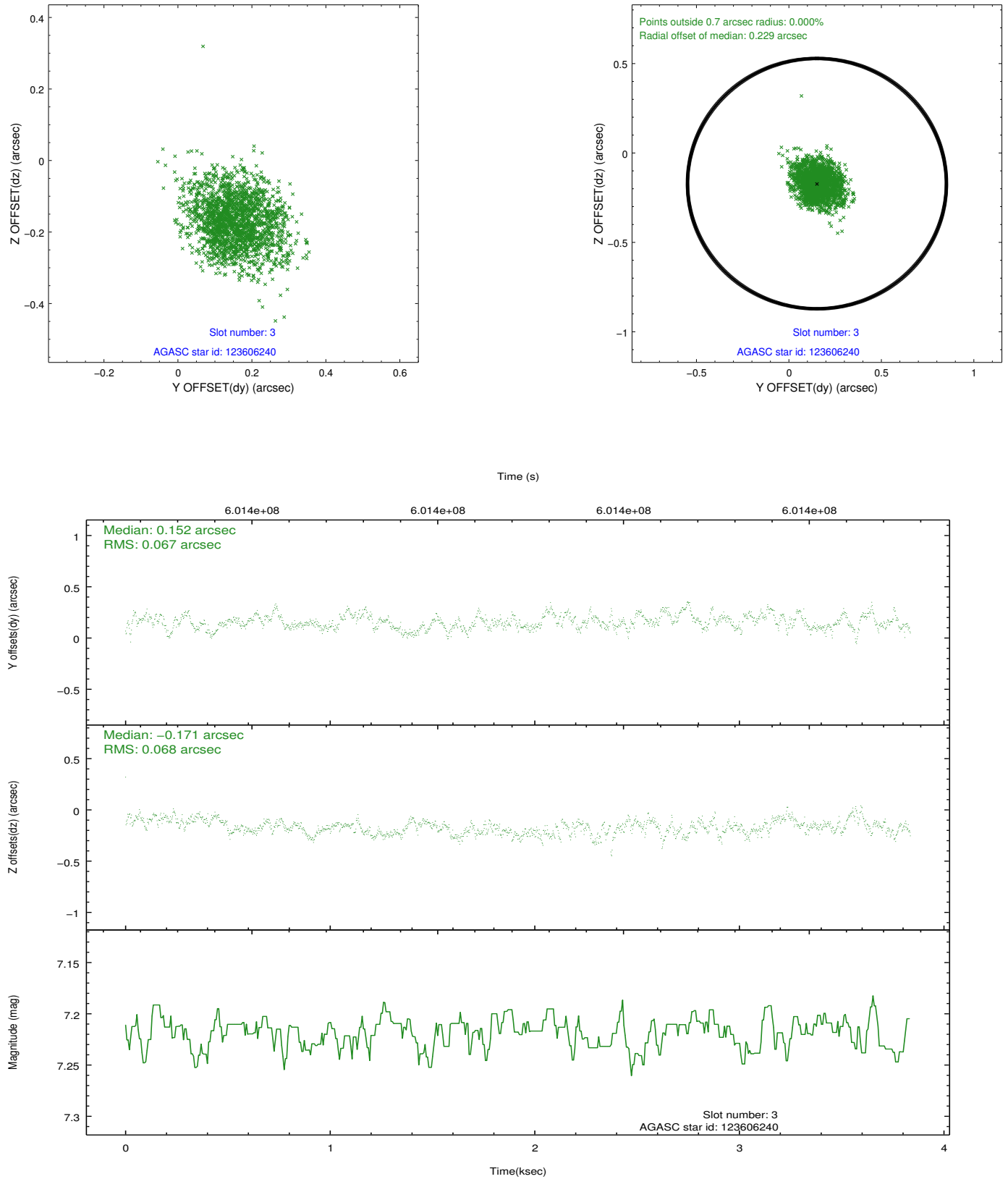


Slot Statistics

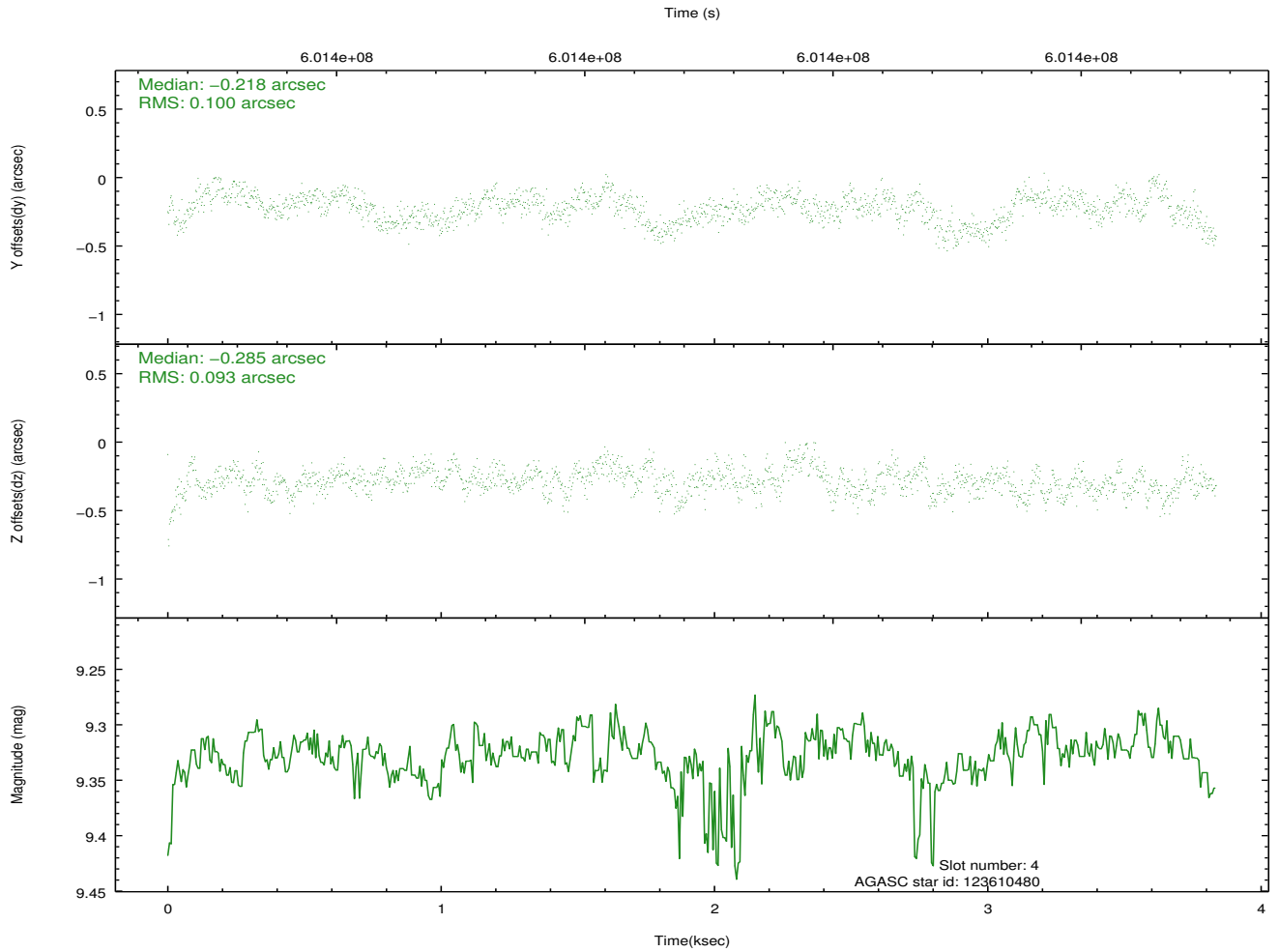
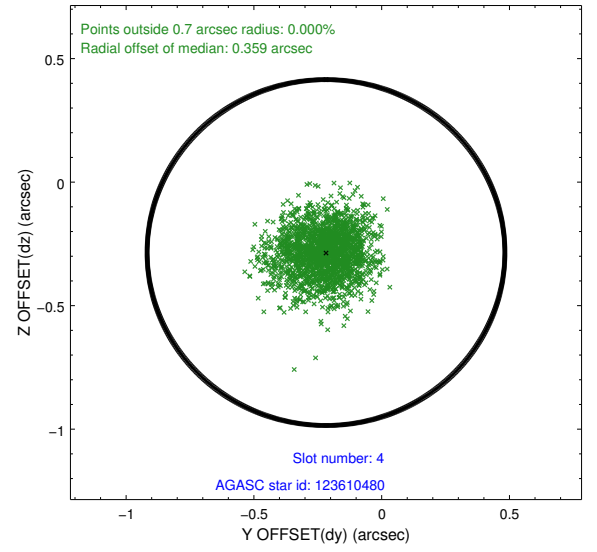
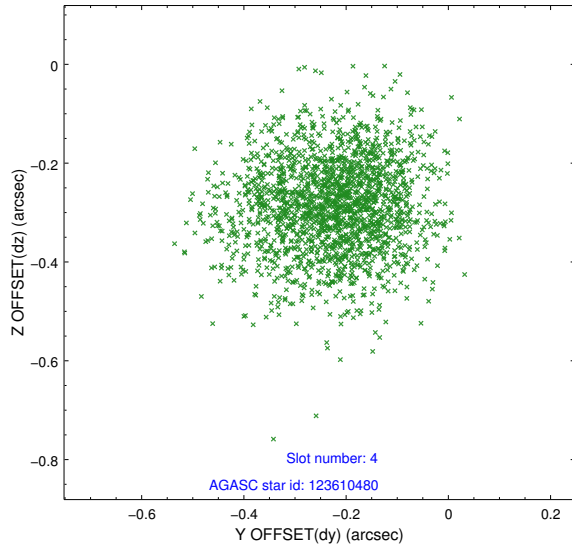
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	936	-0.203	-0.131	0.008	0.014	0.000000	0.000000	-774.96	-1744.22
1	FID		ACIS-S-4	7.00	936	0.457	0.133	0.007	0.014	0.000000	0.000000	2138.21	162.83
2	FID		ACIS-S-5	7.01	936	-0.285	0.007	0.007	0.012	0.000000	0.000000	-1825.81	158.23
3	GUIDE	used	123606240	7.22	1872	0.152	-0.171	0.101	0.160	239.024971	7.936492	-1838.97	1632.51
4	GUIDE	used	123610480	9.33	1871	-0.218	-0.285	0.146	0.237	239.332205	8.960456	1963.43	2193.42
5	GUIDE	used	123735248	9.07	1870	0.324	0.688	0.136	0.214	239.782071	8.100417	-164.49	-563.63
6	GUIDE	used	123737040	8.89	1869	0.101	-0.078	0.109	0.182	239.727525	8.565485	1269.61	319.53
7	GUIDE	used	123738736	8.26	1871	-0.360	-0.149	0.120	0.190	239.634547	8.905939	2240.62	1136.05

2.4 Star Slots

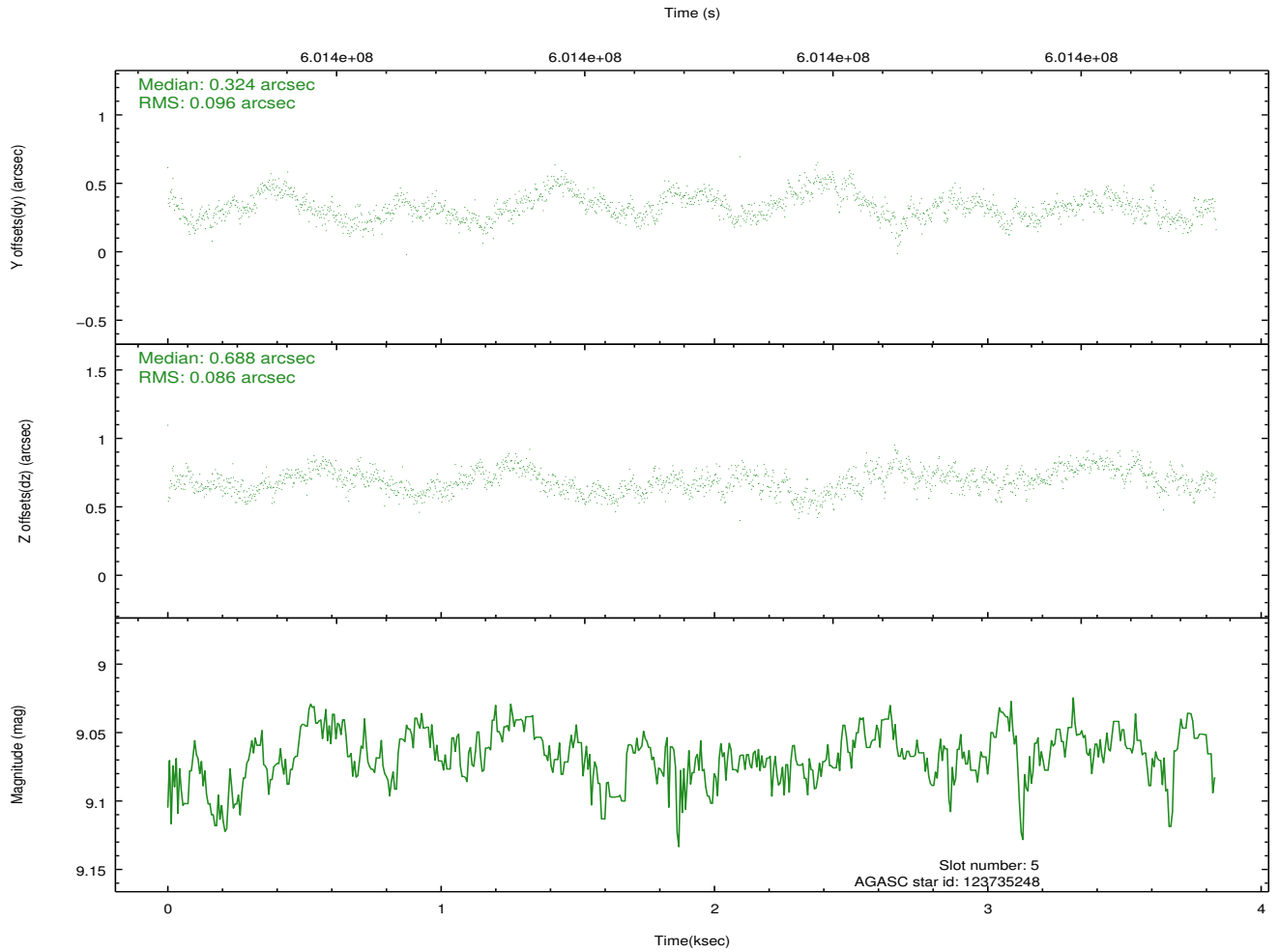
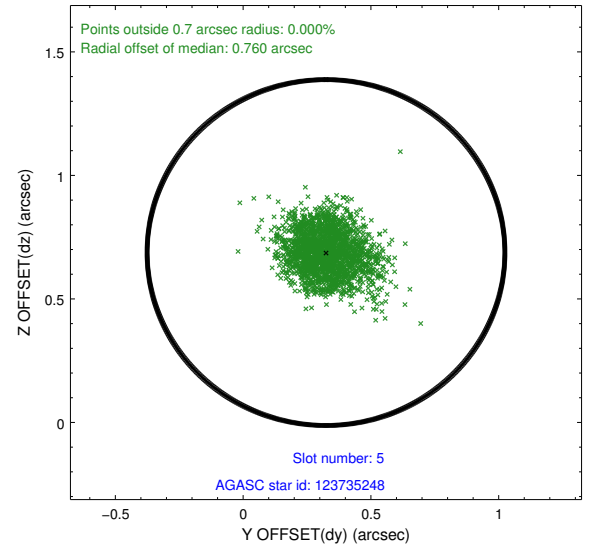
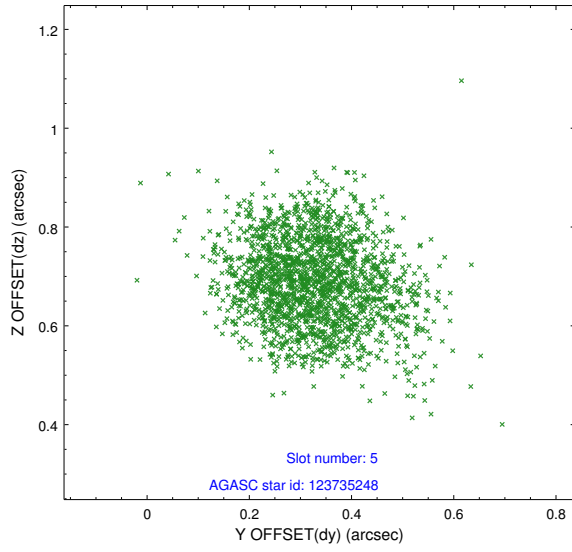
2.4.1 Slot 3



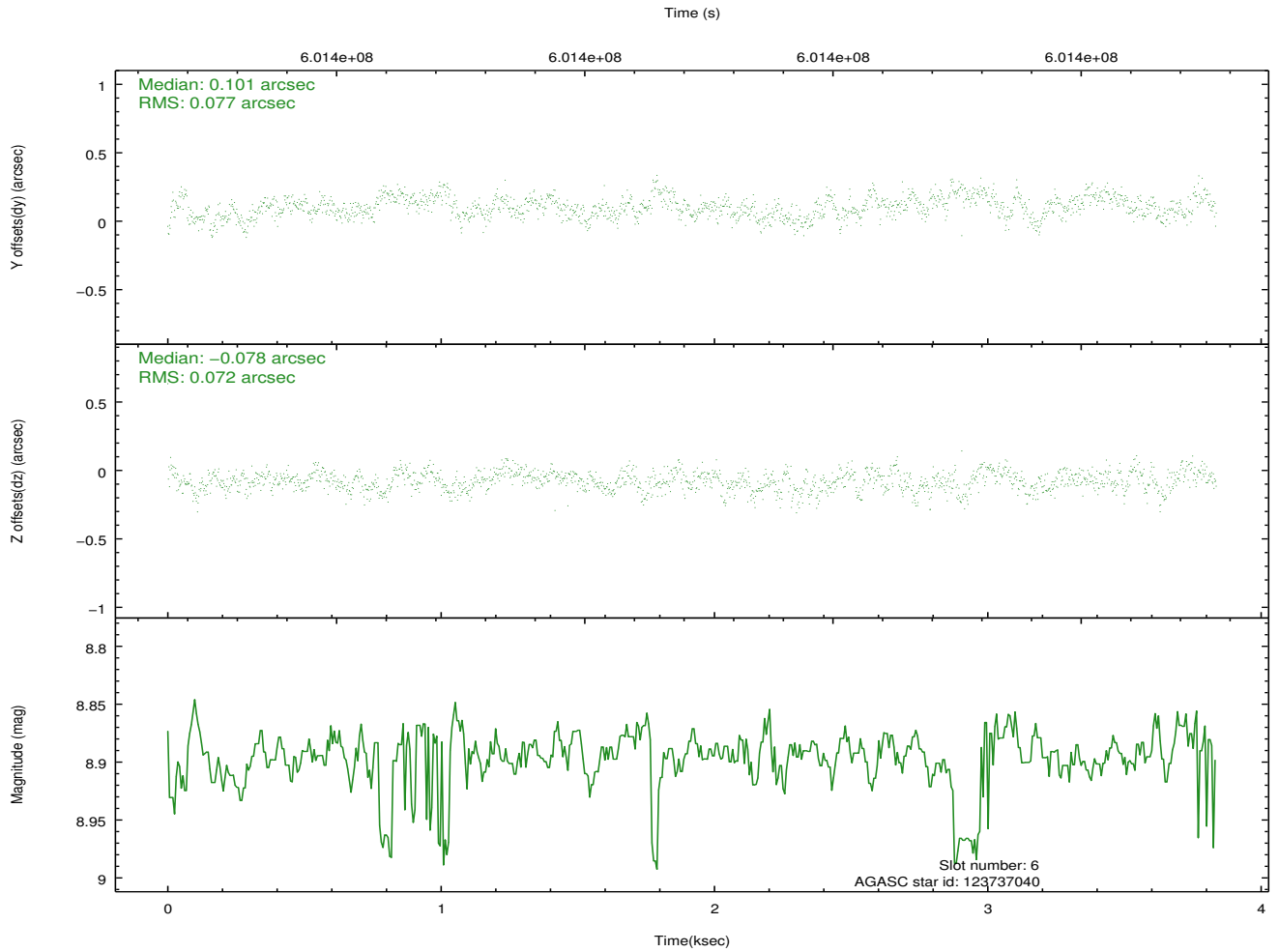
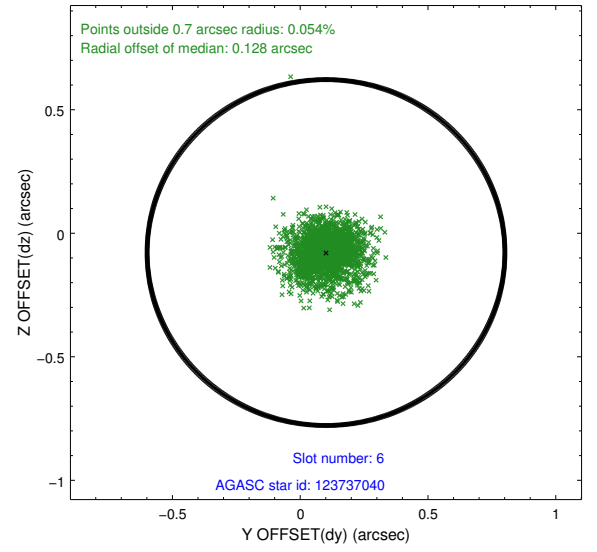
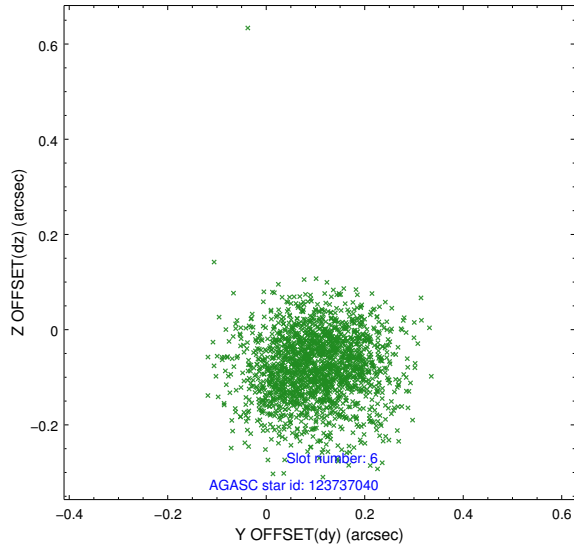
2.4.2 Slot 4



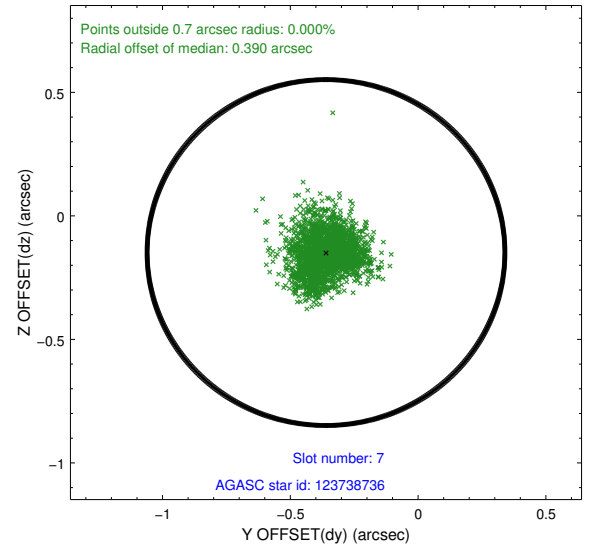
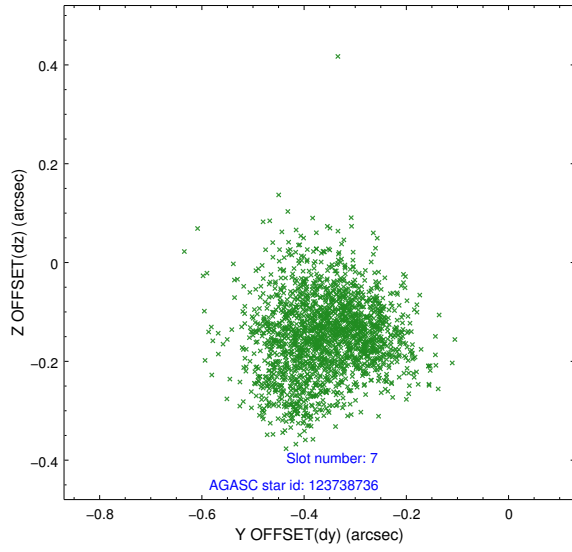
2.4.3 Slot 5



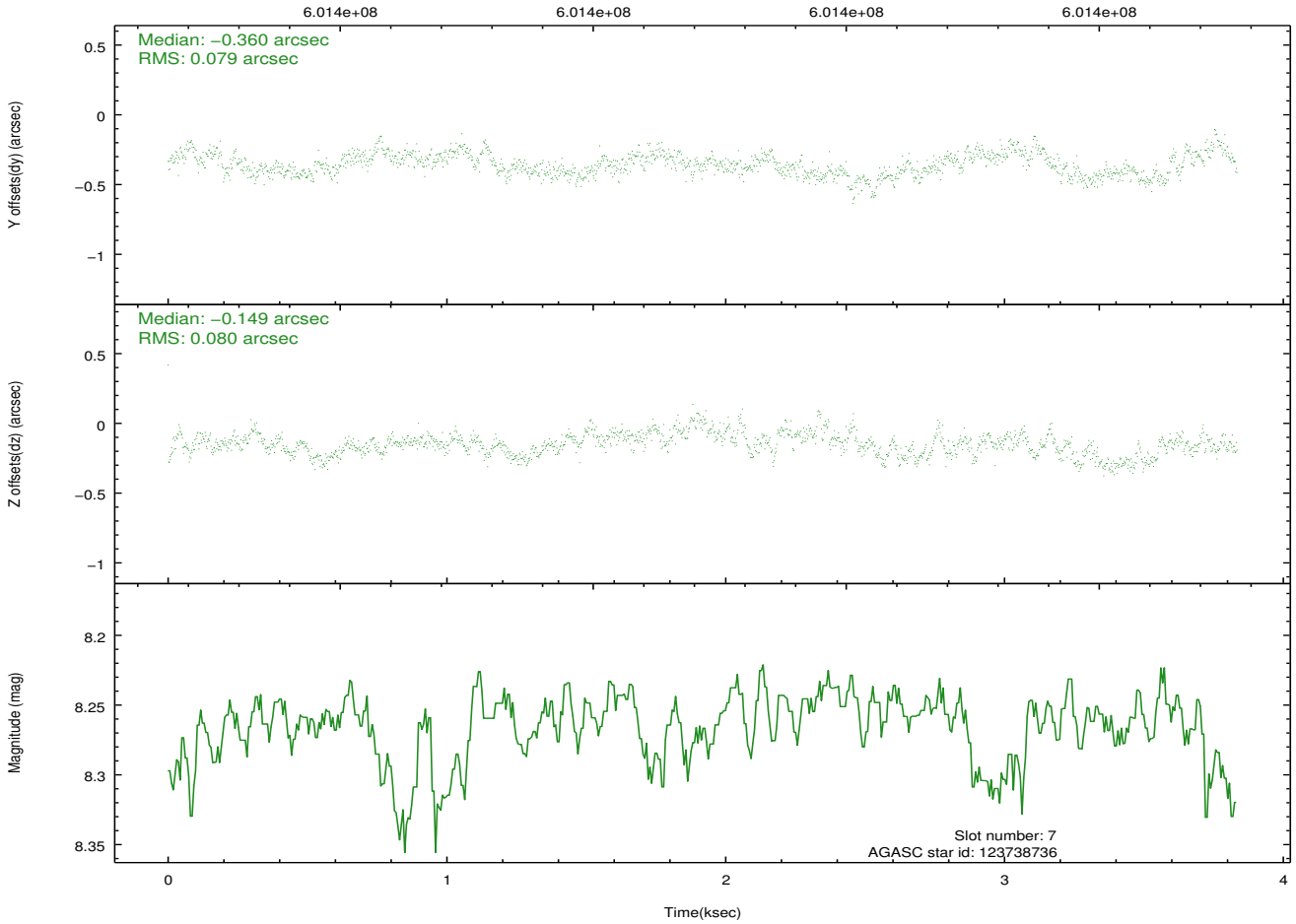
2.4.4 Slot 6



2.4.5 Slot 7

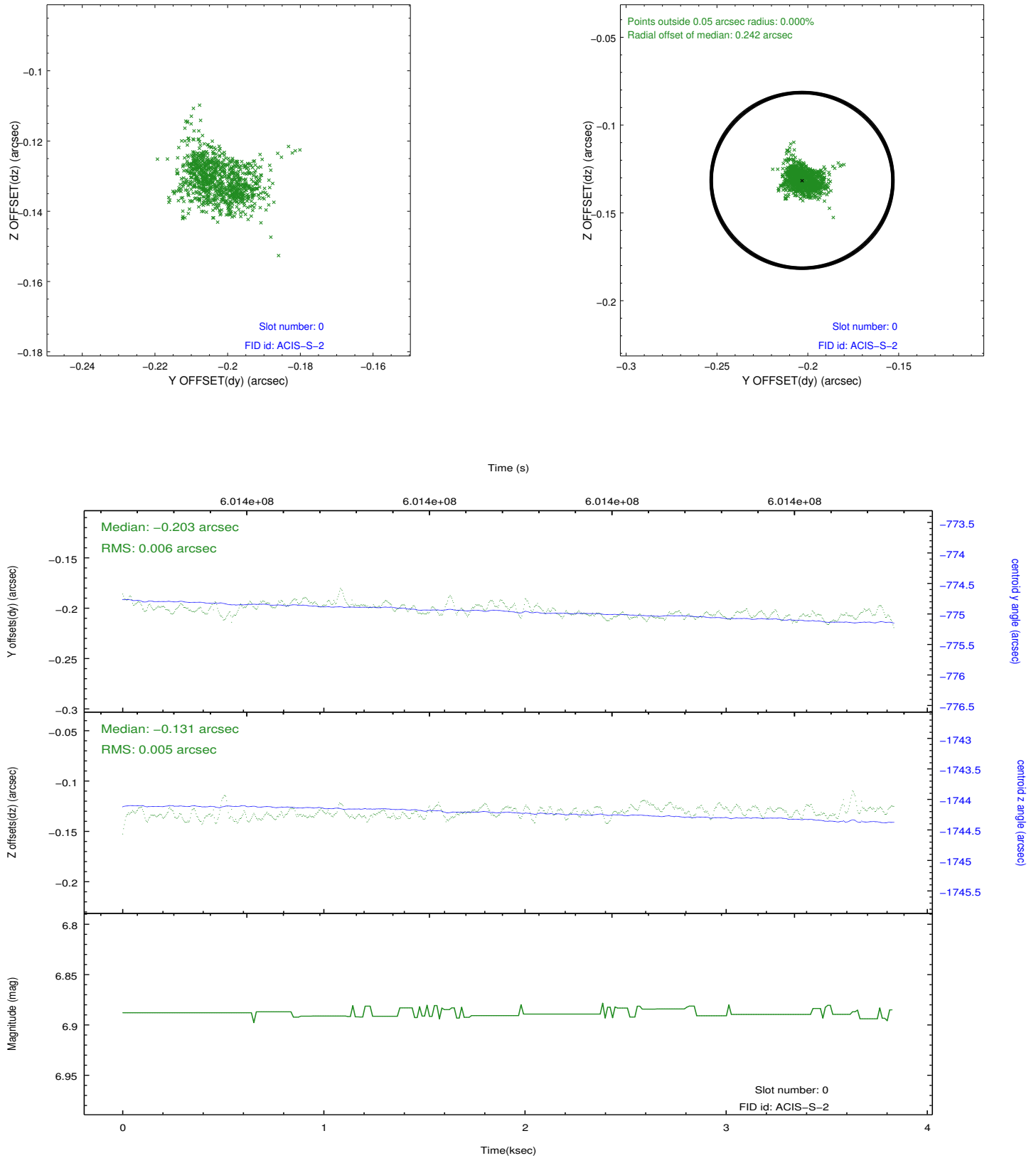


Time (s)

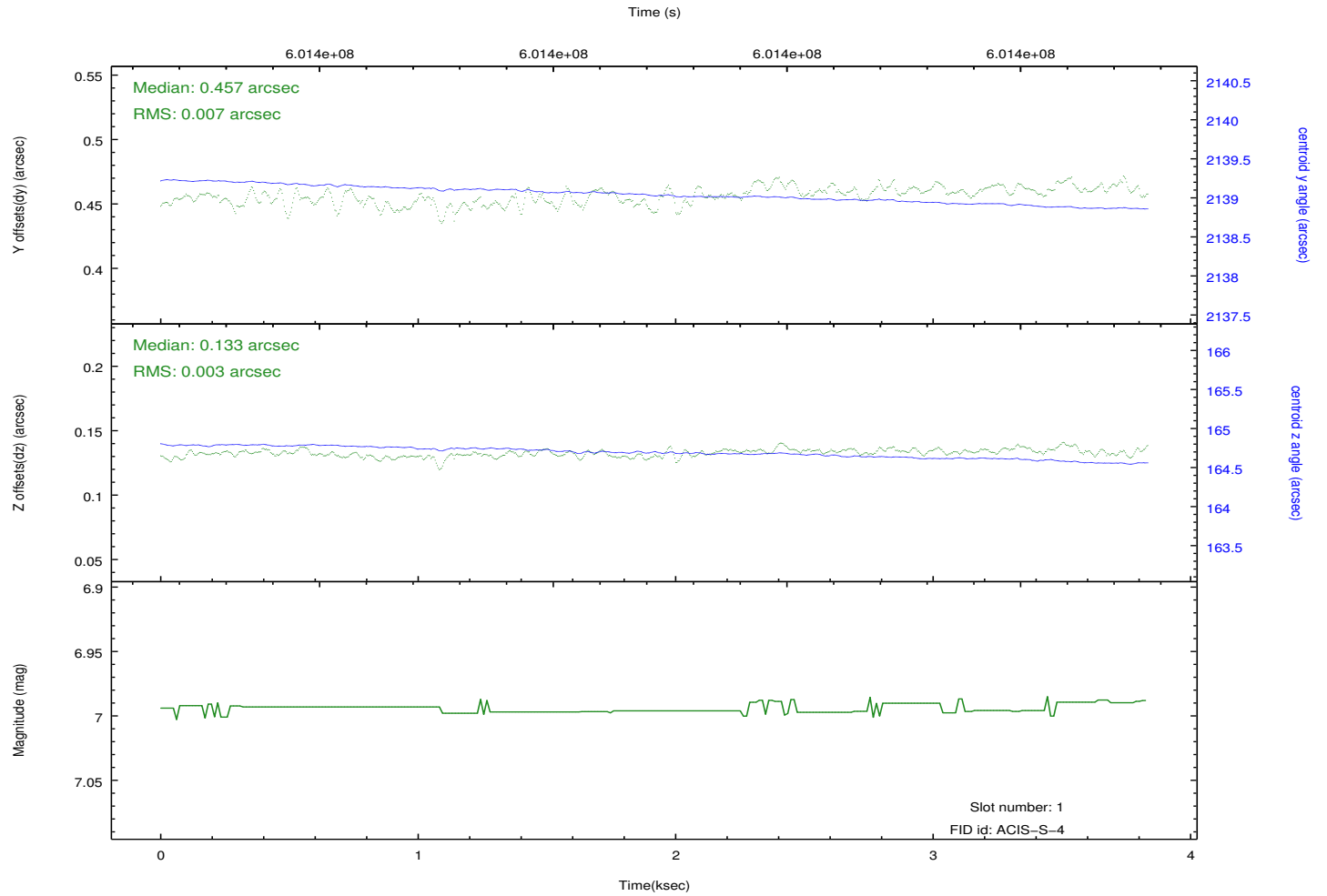
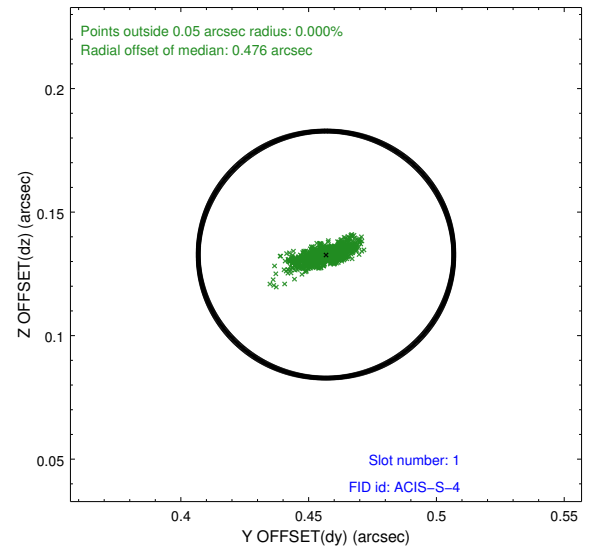
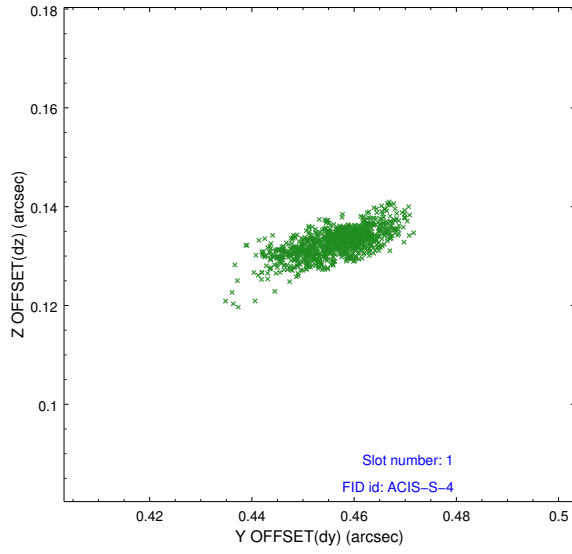


2.5 FID Slots

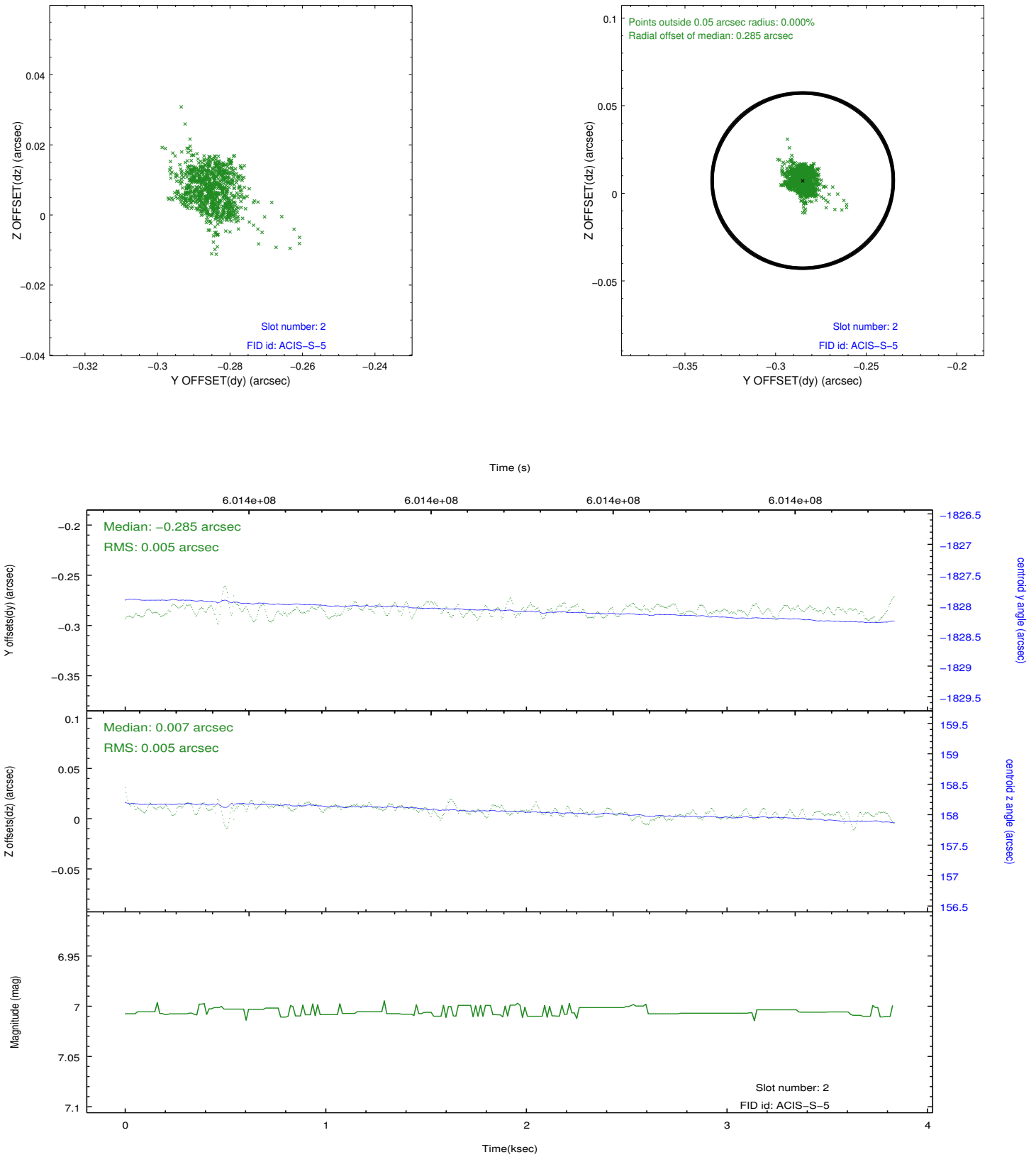
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.02.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5707823377848

A.2 Comments