

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19543 - L2 Version 1
Chandra X-Ray Center

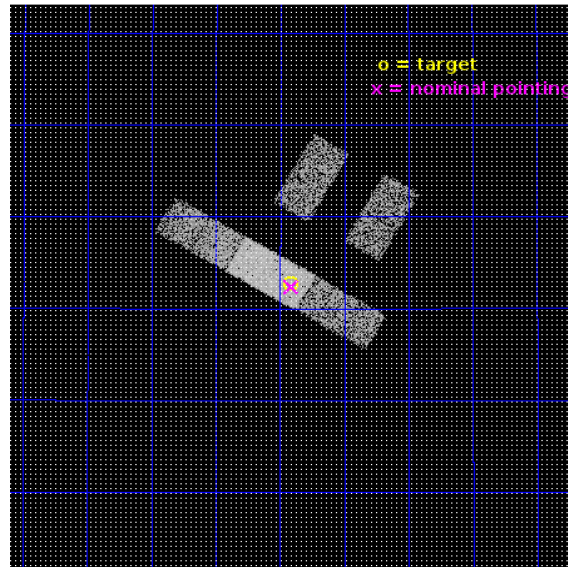
L2 Processing Date : Mar 5 2017

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1 Front

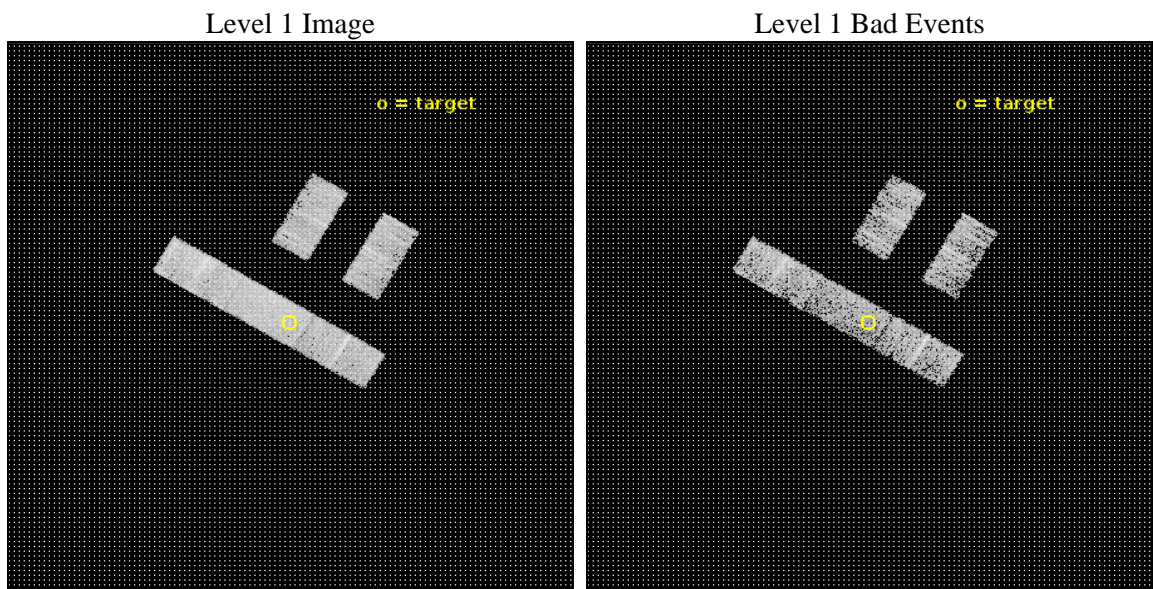
seq_num	703391	Sequence number
obs_id	19543	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ100054.96+262242.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.229167	Observer's specified target RA [deg]
dec_targ	26.378444	Observer's specified target Dec [deg]
ra_nom	150.22800857008	Nominal RA [deg]
dec_nom	26.373031307847	Nominal Dec [deg]
roll_nom	210.15690600981	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3585.1135977507	Sum of GTIs [s]
livetime	3500.6048776456	Livetime [s]
ontime2	3584.9494377375	Sum of GTIs [s]
ontime3	3585.0315177441	Sum of GTIs [s]
ontime6	3585.072557807	Sum of GTIs [s]
ontime7	3585.1135977507	Sum of GTIs [s]
ontime8	3584.9904778004	Sum of GTIs [s]
l2events	20184	Number of level 2 events



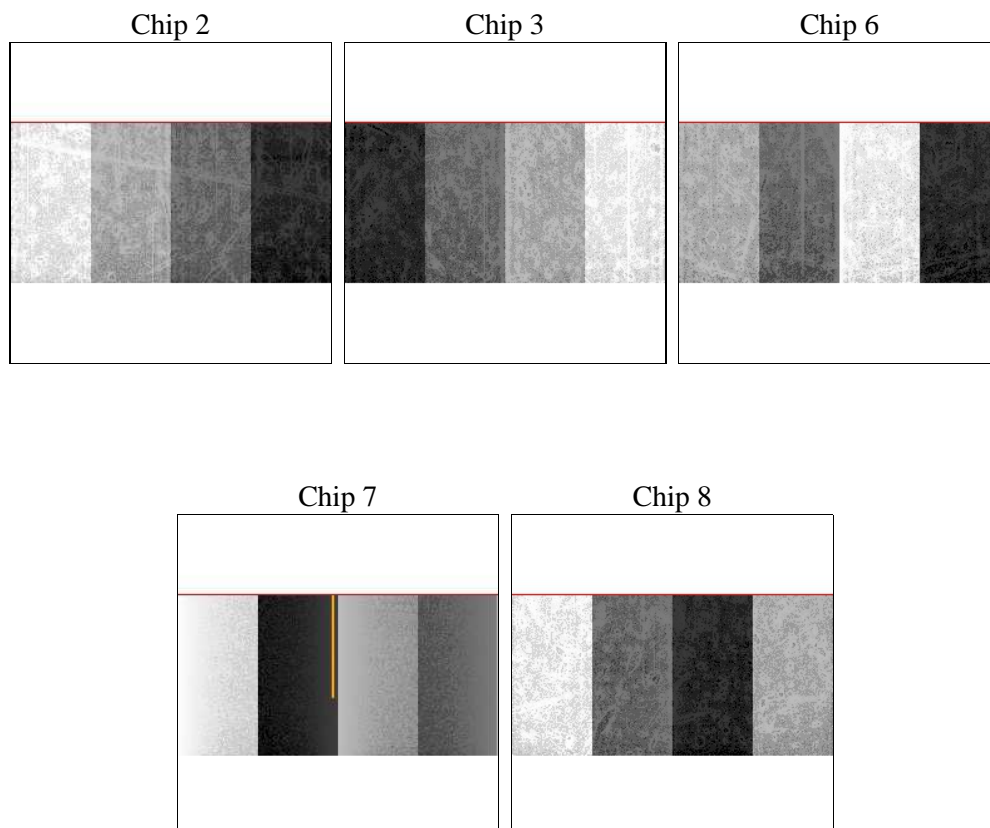
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3585.1135977507	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3584.9494377375	Sum of GTIs [s]
date	2017-03-05T05:34:52	Date and time of file creation	ontime3	3585.0315177441	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3585.072557807	Sum of GTIs [s]
			ontime7	3585.1135977507	Sum of GTIs [s]
			ontime8	3584.9904778004	Sum of GTIs [s]
			l1events	84291	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	14131	15008	15305	19694	20153
rejected events	11576	12476	12329	9580	13812
rejected %	81%	83%	80%	48%	68%

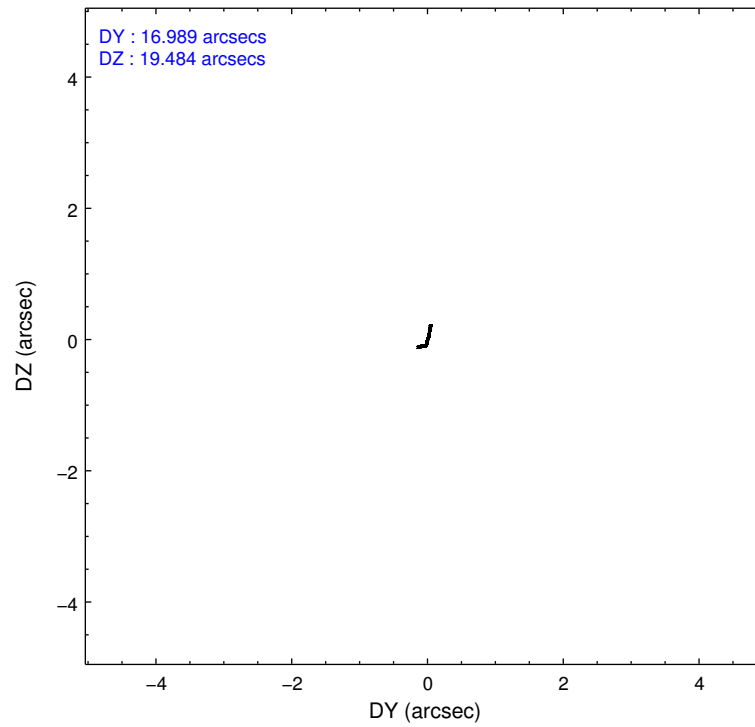
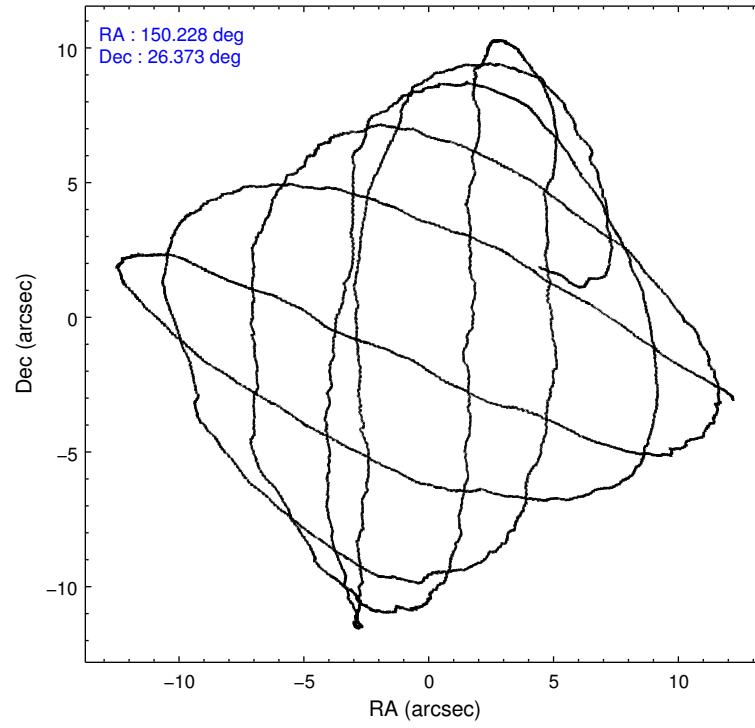
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1199	1190	1340	1083	2563
	8%	7%	8%	5%	12%
grade 1 events	10	5	14	27	10
	0%	0%	0%	0%	0%
grade 2 events	468	458	524	2069	1276
	3%	3%	3%	10%	6%
grade 3 events	221	240	247	892	545
	1%	1%	1%	4%	2%
grade 4 events	241	224	267	939	535
	1%	1%	1%	4%	2%
grade 5 events	509	683	633	1842	921
	3%	4%	4%	9%	4%
grade 6 events	426	421	598	5140	1424
	3%	2%	3%	26%	7%
grade 7 events	11057	11787	11682	7702	12879
	78%	78%	76%	39%	63%

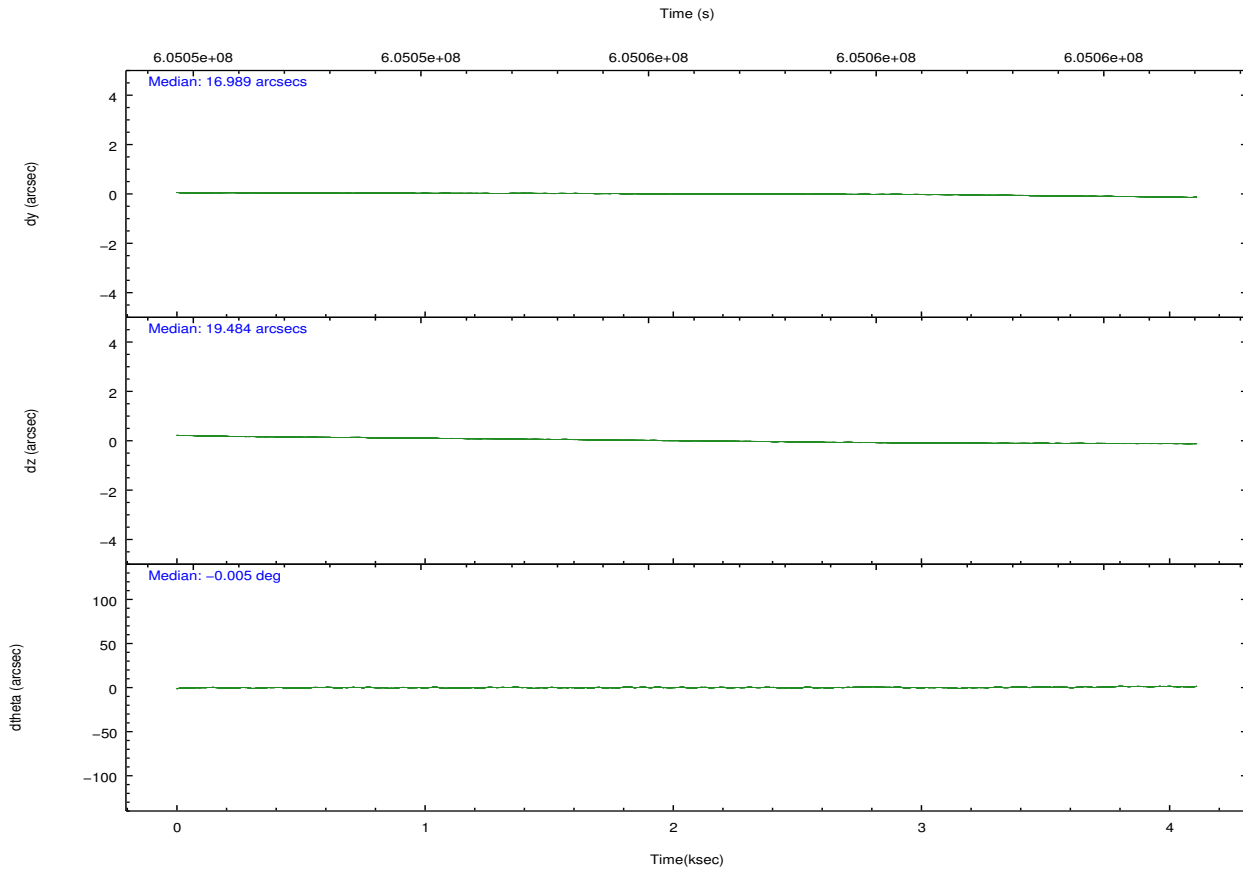
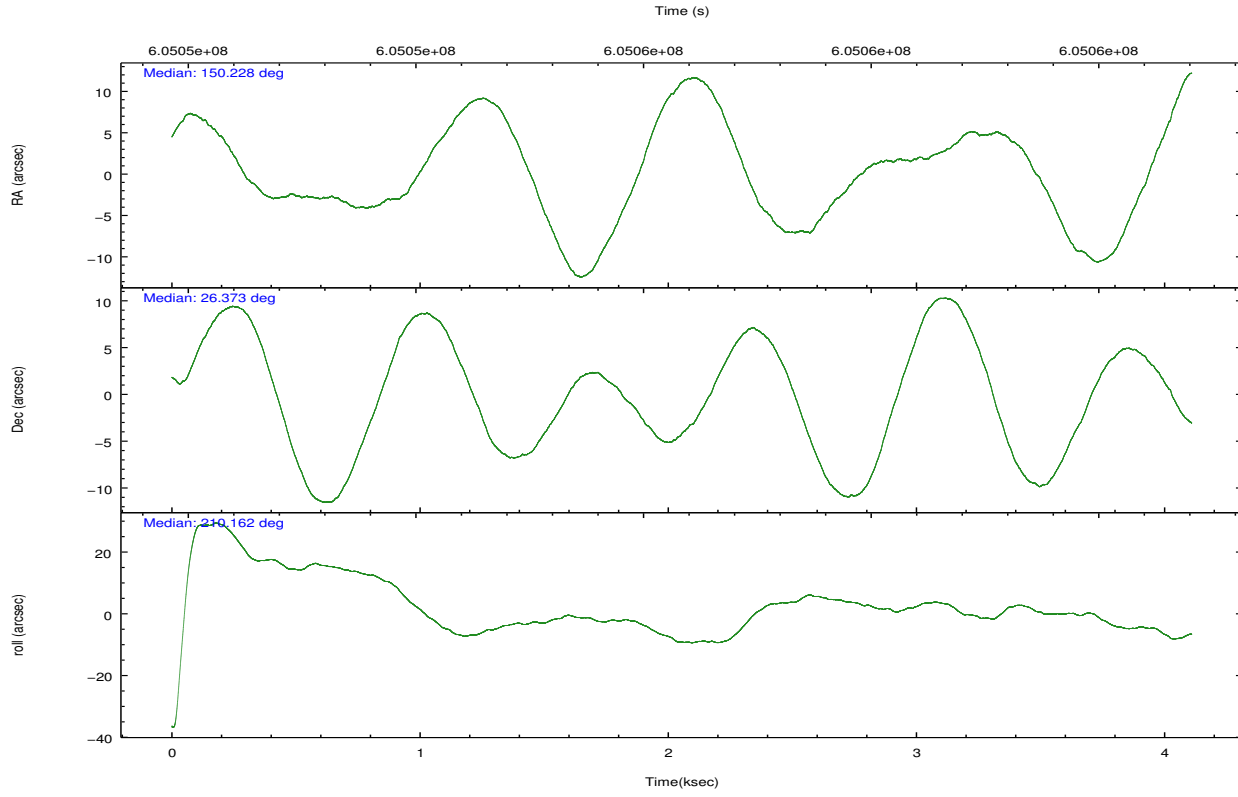
2.2 Compared Parameters

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	150.242884	150.2280085700811
[deg] Pointing Dec	26.396953	26.37303130784658
[deg] Pointing Roll	209.993906	210.1569060098081
[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)	605053727.184000	605052519.6533099
Observation start date	2017-03-04T22:27:38	2017-03-04T22:08:39
[s] Observation end time (MET)	605057227.184000	605058204.8161401
Observation end date	2017-03-04T23:25:58	2017-03-04T23:43:24
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	1/2
Subarray start row	257	257
Subarray row count	512	512
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1.7

2.3 Aspect



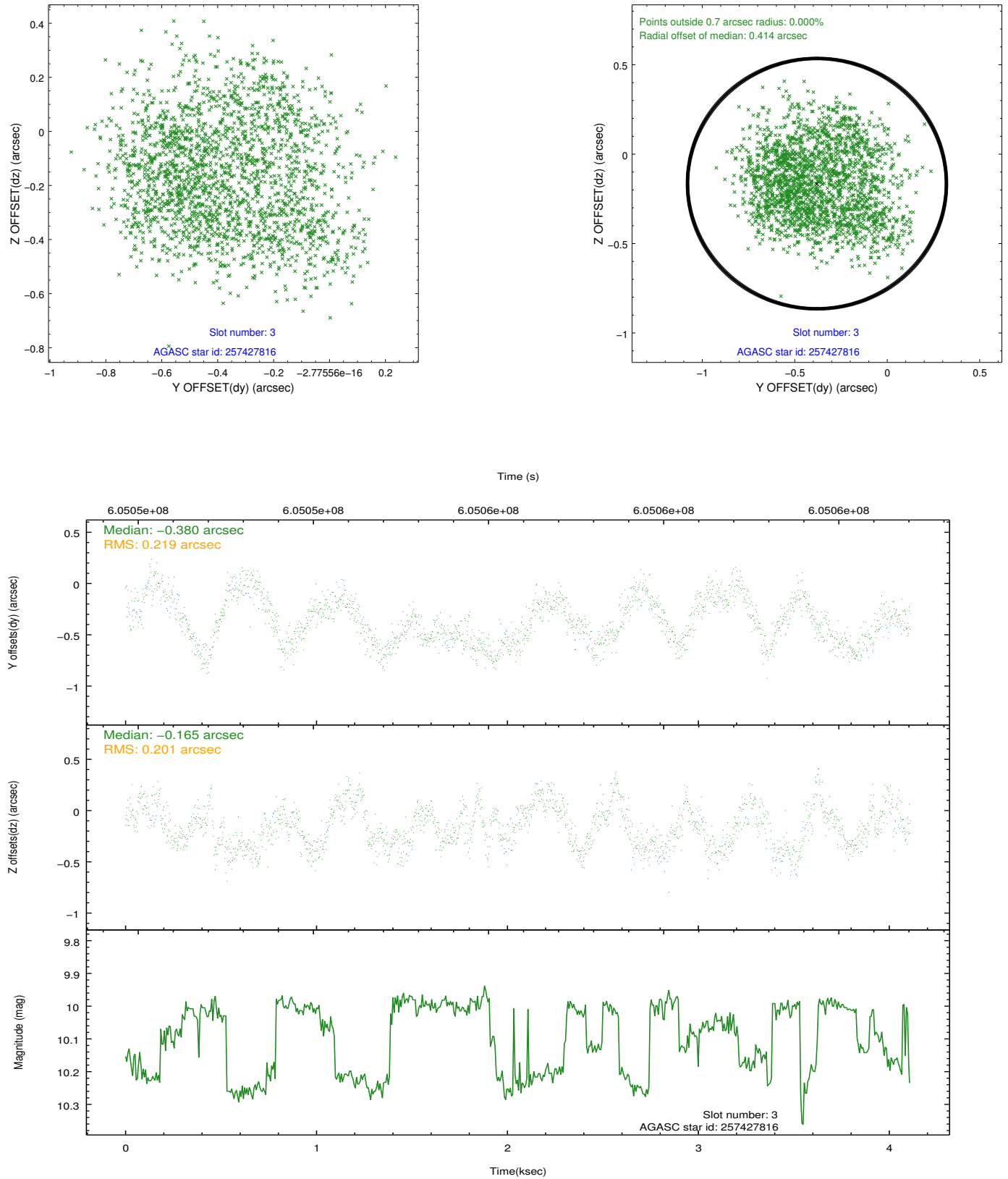


Slot Statistics

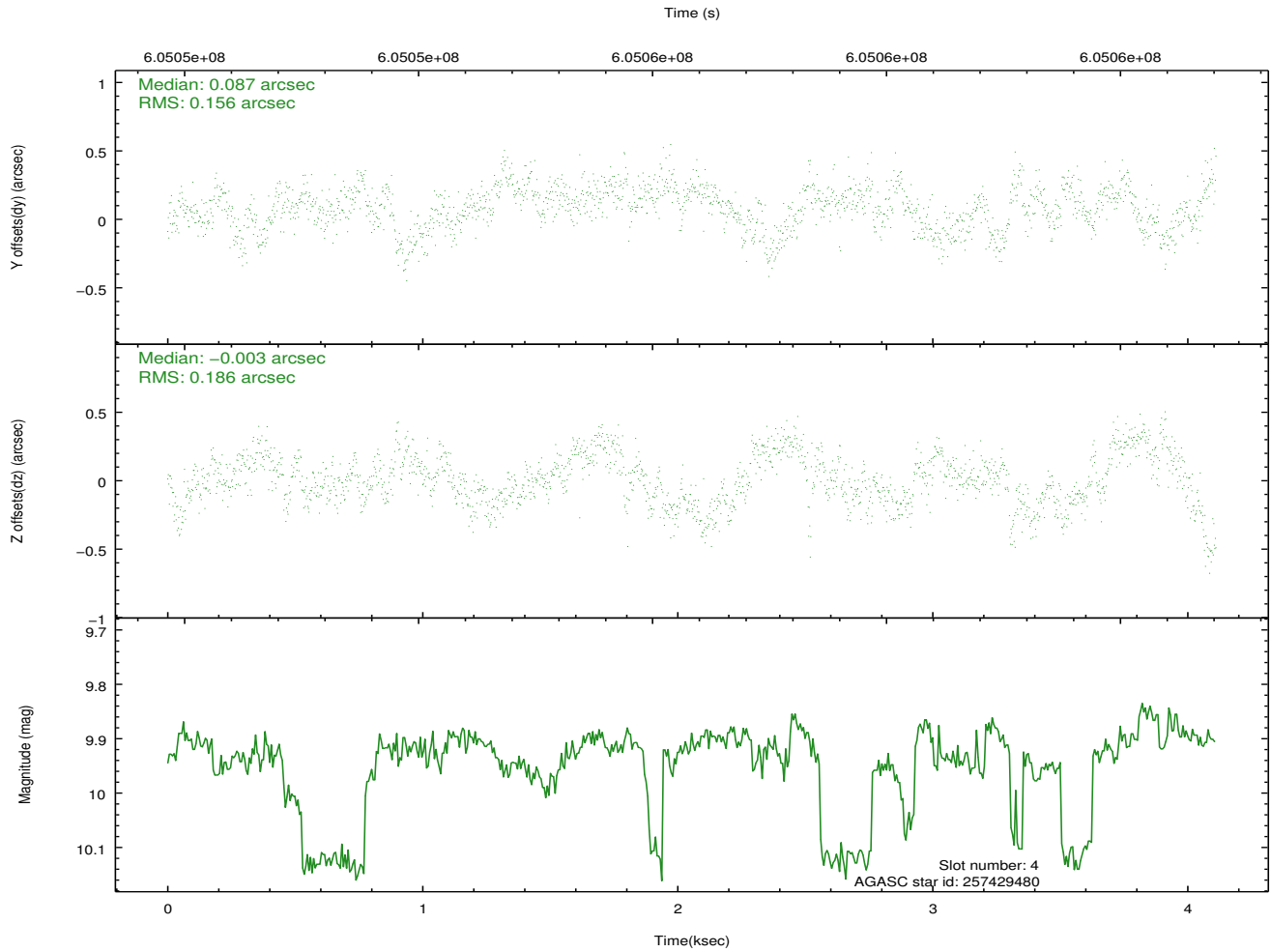
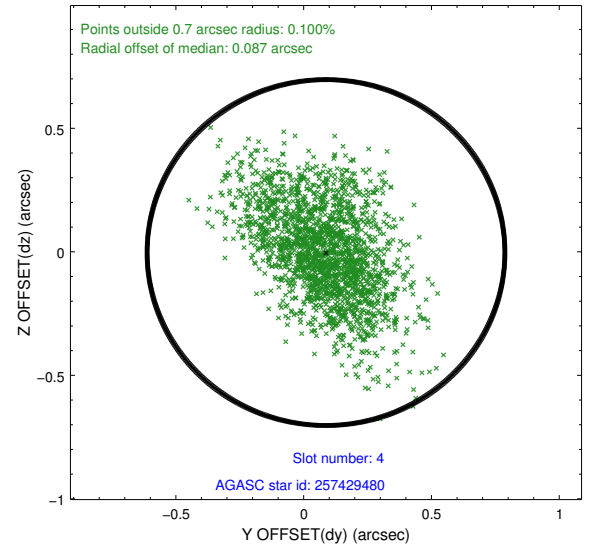
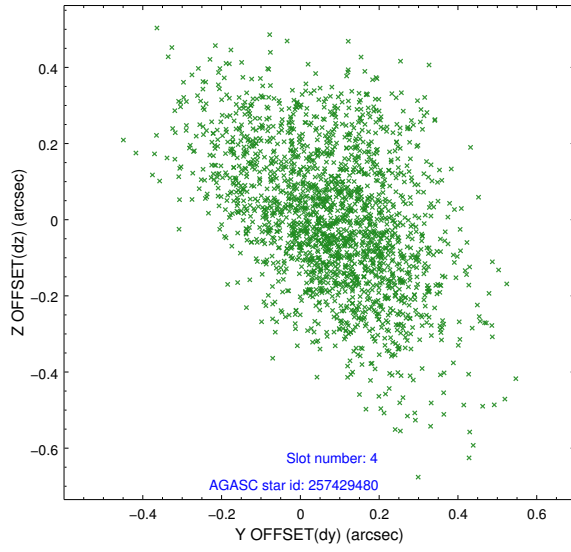
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.88	1003	-0.188	-0.073	0.007	0.012	0.000000	0.000000	-770.15	-1741.08
1	FID		ACIS-S-4	6.99	1003	0.422	0.110	0.006	0.011	0.000000	0.000000	2143.00	166.06
2	FID		ACIS-S-5	6.97	1003	-0.266	-0.028	0.006	0.011	0.000000	0.000000	-1821.17	161.24
3	GUIDE	used	257427816	10.08	2000	-0.380	-0.165	0.327	0.492	149.778757	26.426170	1242.32	-841.27
4	GUIDE	used	257429480	9.93	2002	0.087	-0.003	0.262	0.431	149.400464	26.533432	2101.73	-1789.69
5	GUIDE	used	257431616	10.04	1998	0.401	-0.016	0.279	0.437	150.087741	26.890260	-454.41	-1787.75
6	GUIDE	used	258345568	9.97	1999	-0.108	0.001	0.278	0.416	150.721546	26.669447	-1825.18	-82.31
7	GUIDE	used	258347080	10.14	1998	-0.020	0.165	0.203	0.335	150.709703	26.826983	-2074.01	-592.65

2.4 Star Slots

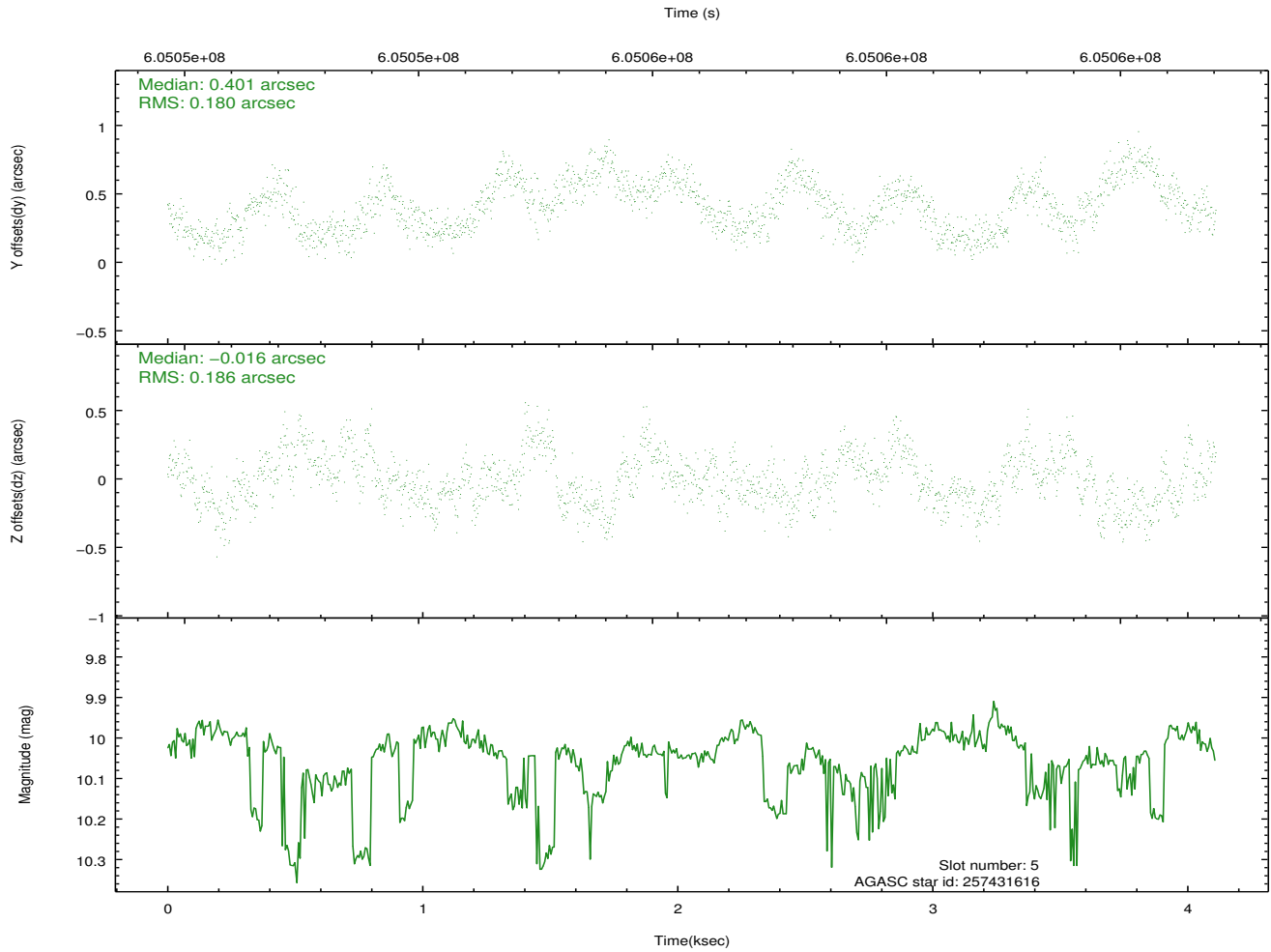
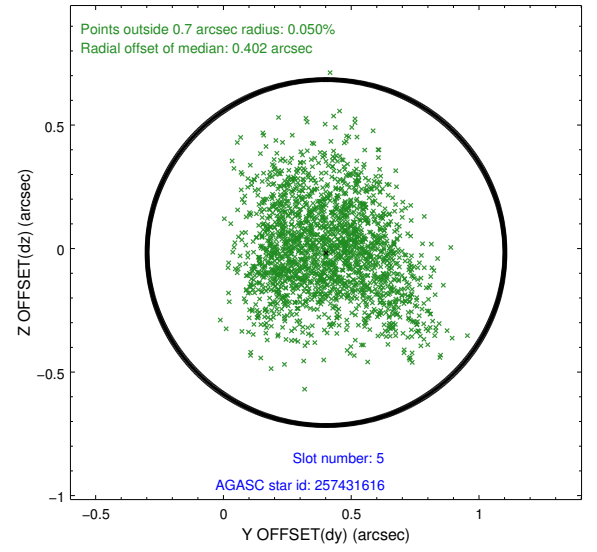
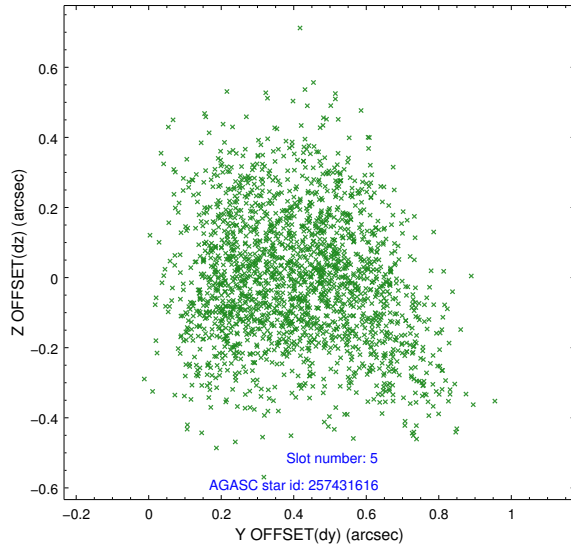
2.4.1 Slot 3



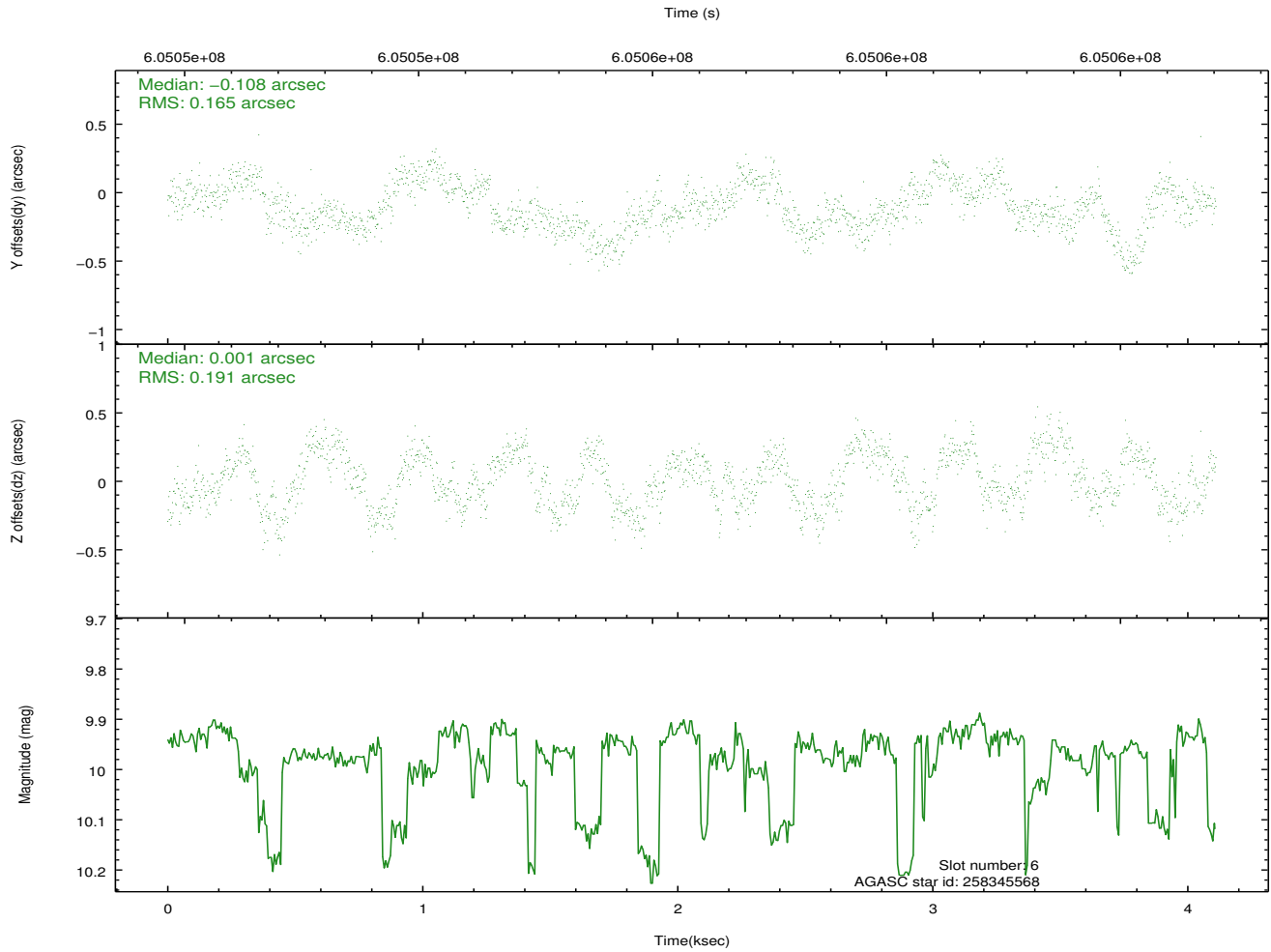
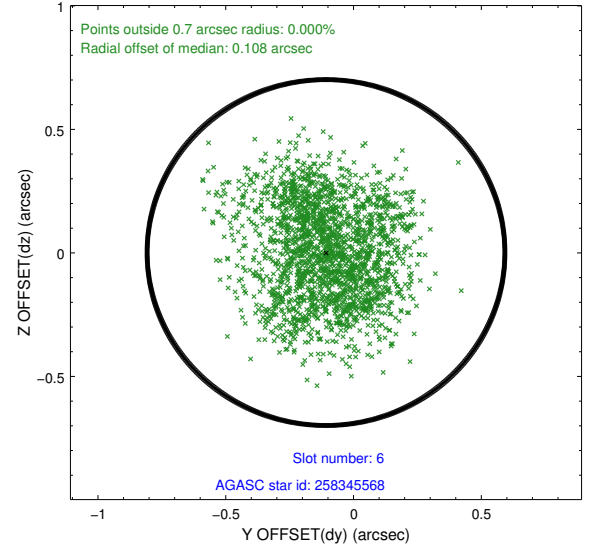
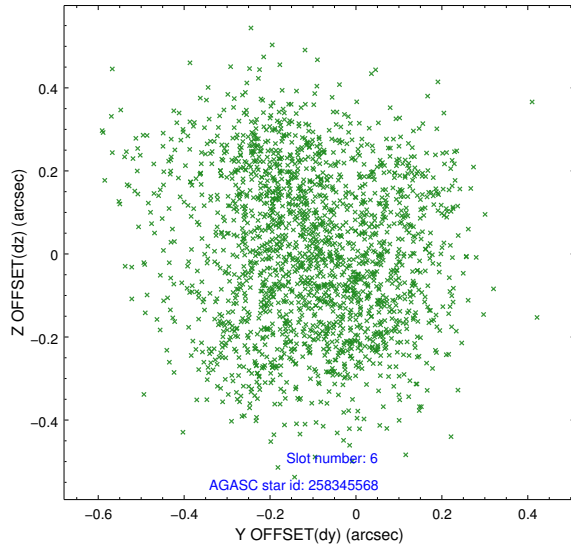
2.4.2 Slot 4



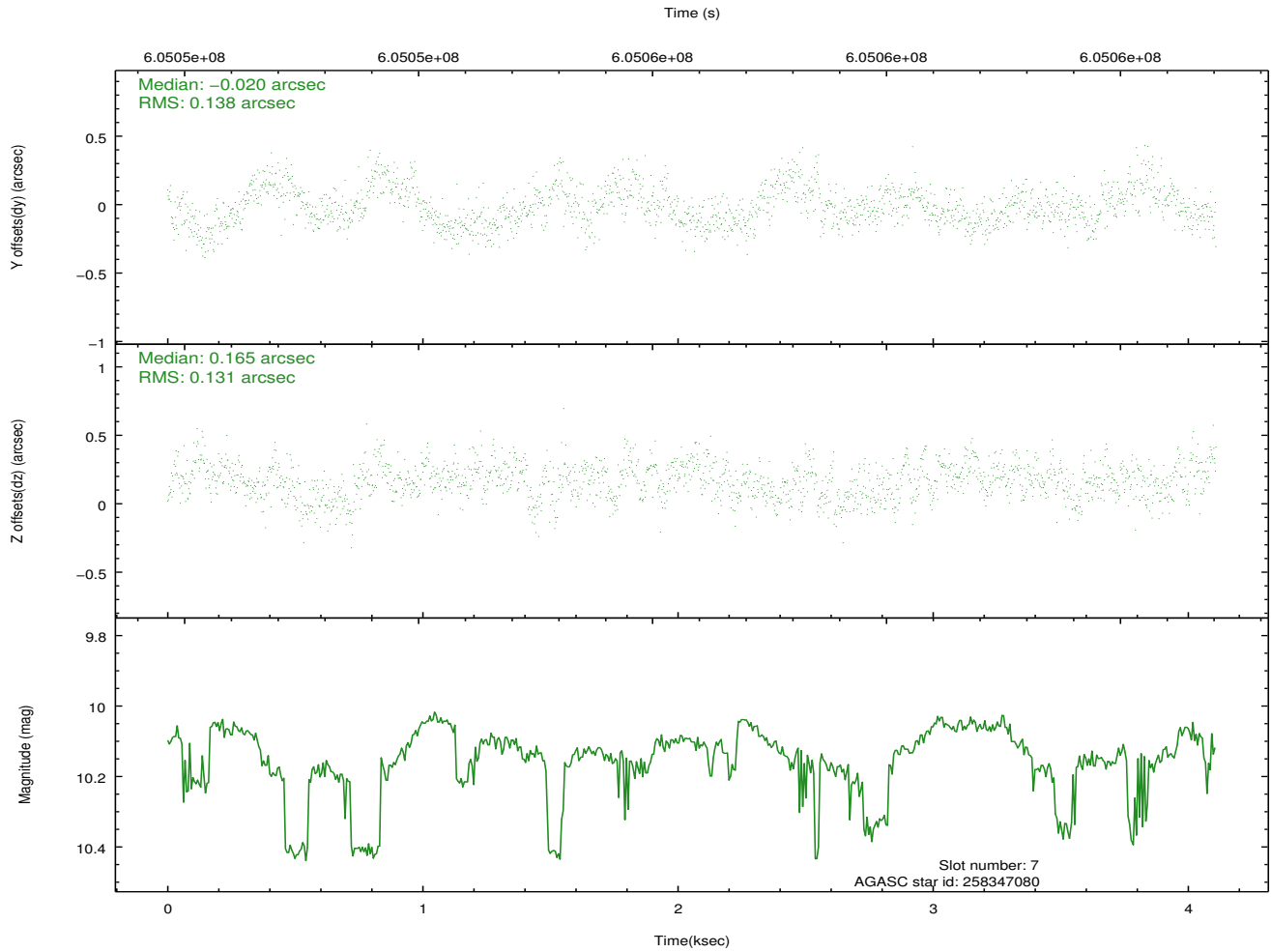
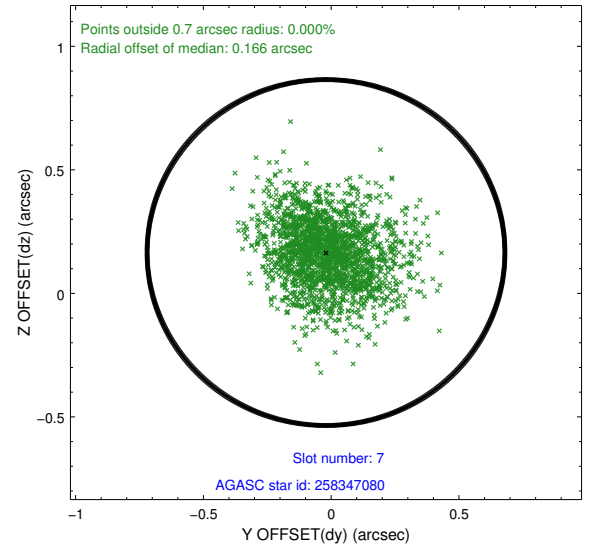
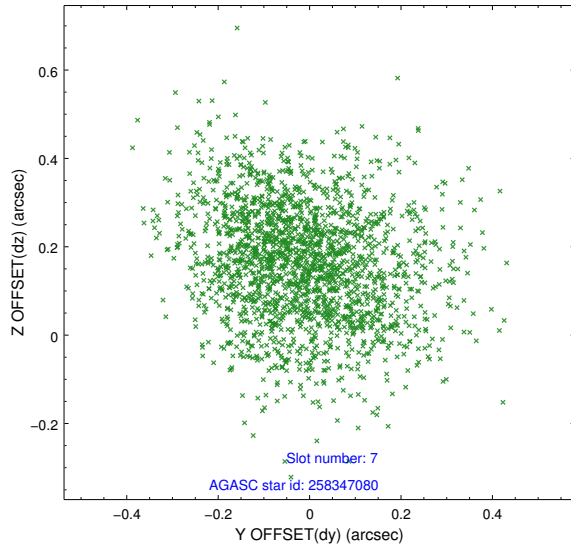
2.4.3 Slot 5



2.4.4 Slot 6

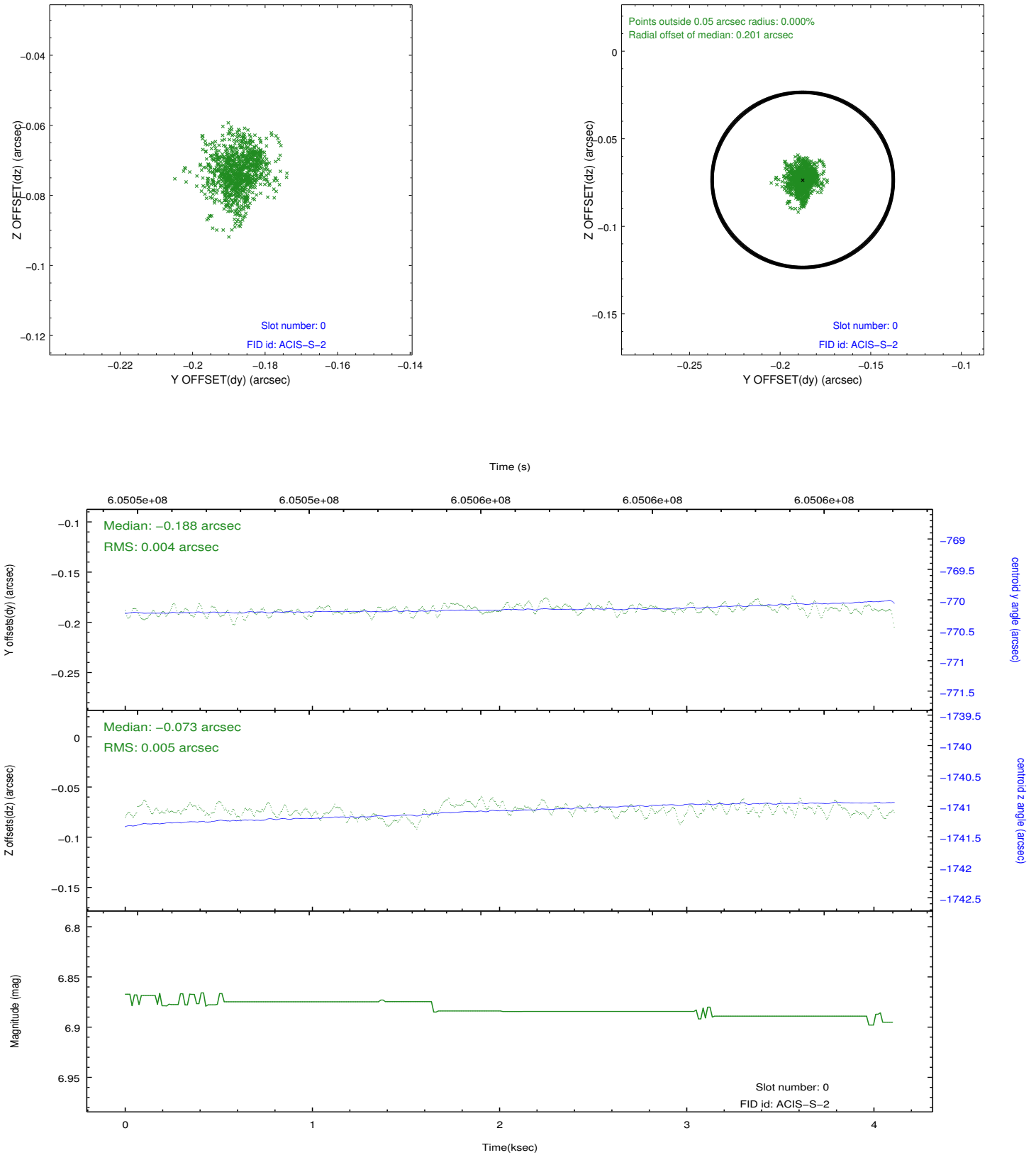


2.4.5 Slot 7

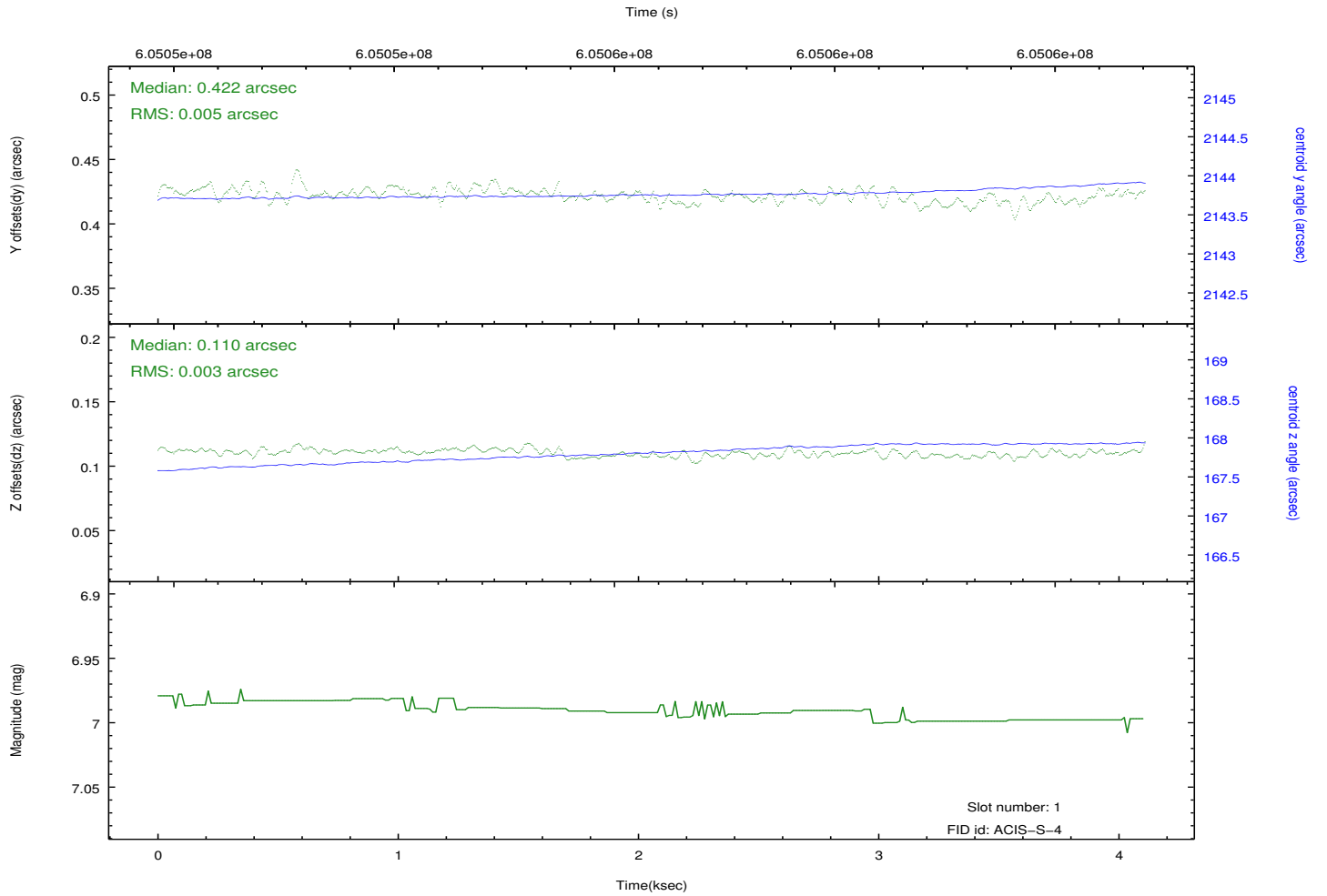
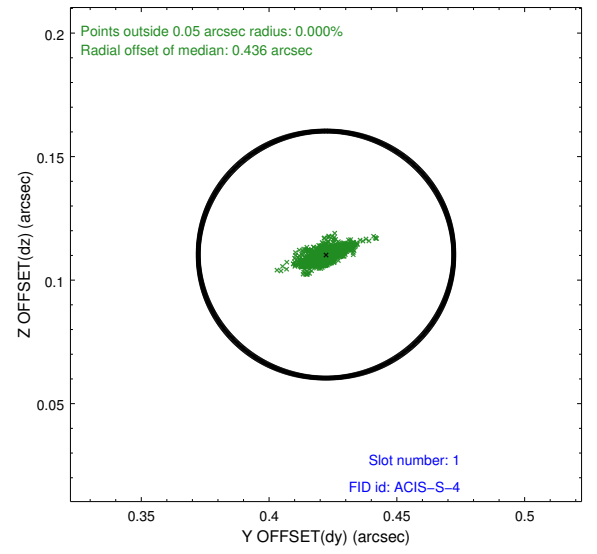
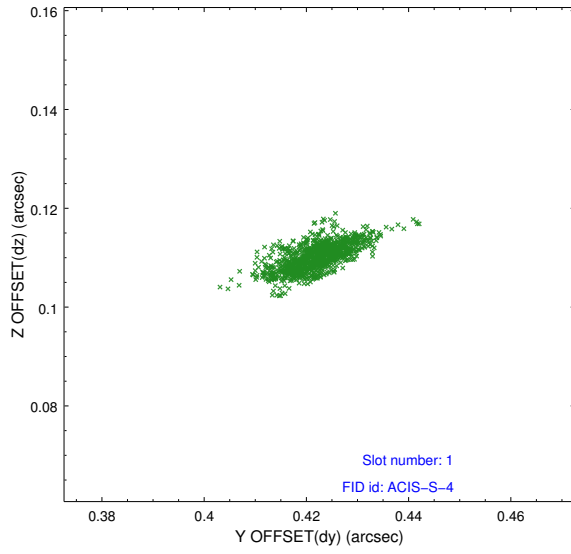


2.5 FID Slots

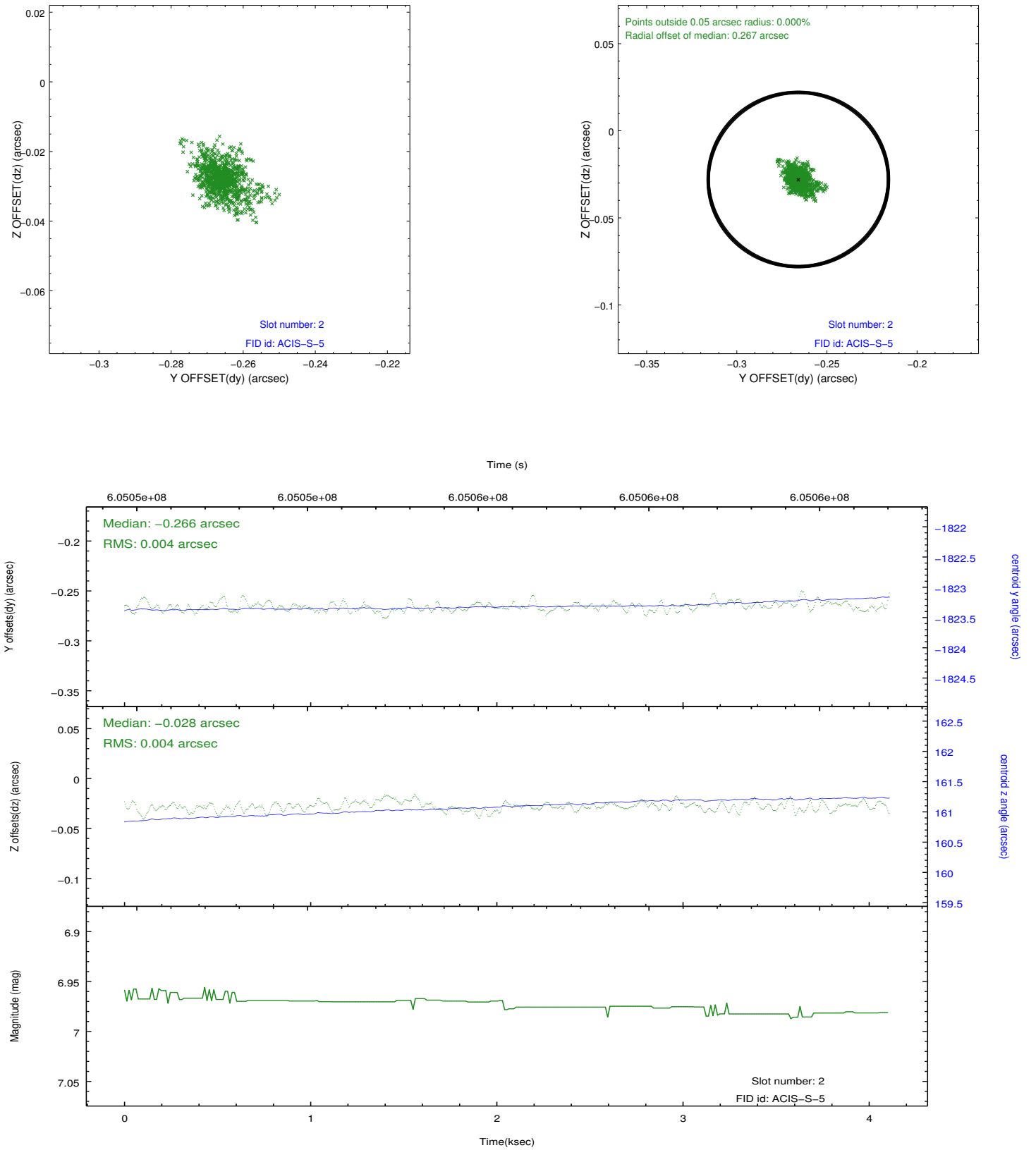
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.03.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5851135977507

A.2 Comments