

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21511 - L2 Version 1
Chandra X-Ray Center

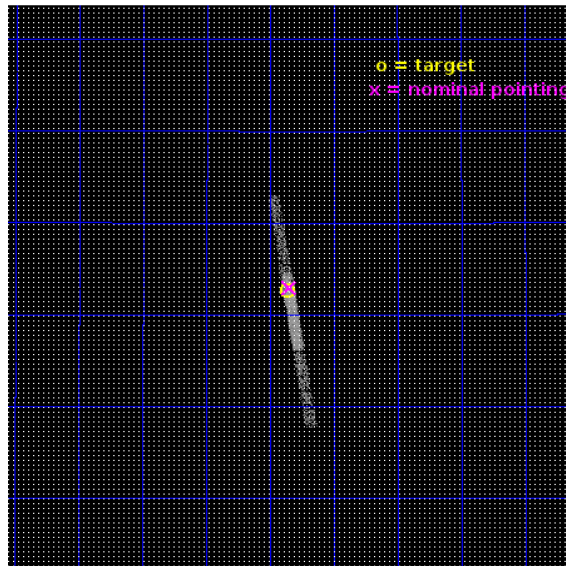
L2 Processing Date : Oct 27 2018

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1 Front

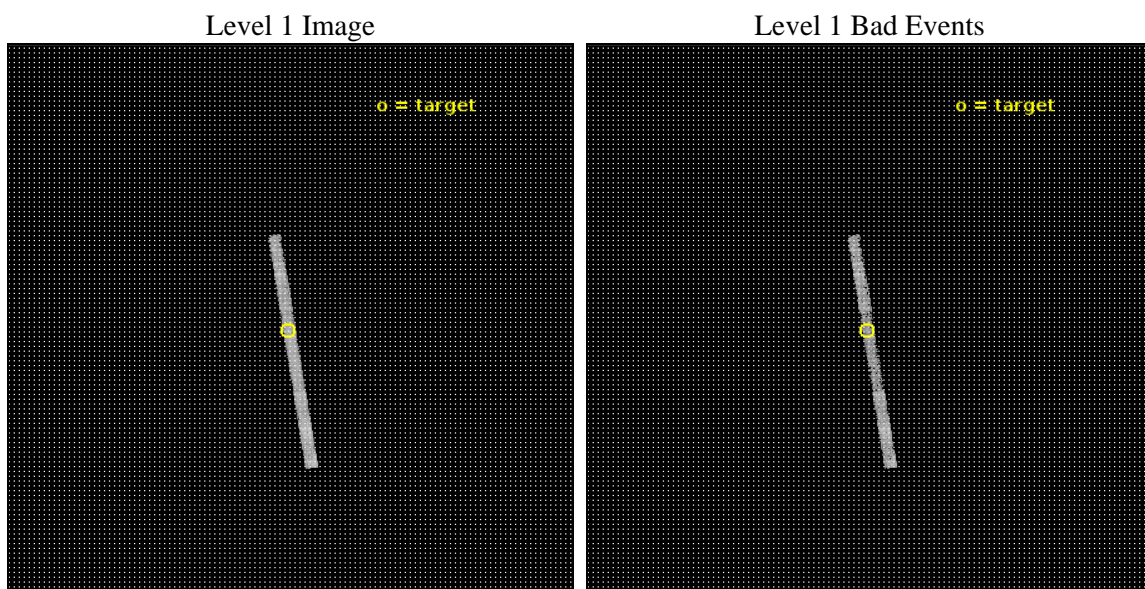
seq_num	703804	Sequence number
obs_id	21511	Observation id
title	X-ray Properties of Extreme Super Eddington Accreting Massive Black Holes	Proposal title
observer	Michael Brotherton	Principal investigator
object	SDSS J074352.02+271239.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	115.966667	Observer's specified target RA [deg]
dec_targ	27.210972	Observer's specified target Dec [deg]
ra_nom	115.96237733306	Nominal RA [deg]
dec_nom	27.215829769231	Nominal Dec [deg]
roll_nom	81.124566076463	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4863.0001933575	Sum of GTIs [s]
livetime	4551.6662236592	Livetime [s]
ontime6	4863.0001933575	Sum of GTIs [s]
ontime7	4863.0001933575	Sum of GTIs [s]
ontime8	4863.0001933575	Sum of GTIs [s]
l2events	4303	Number of level 2 events



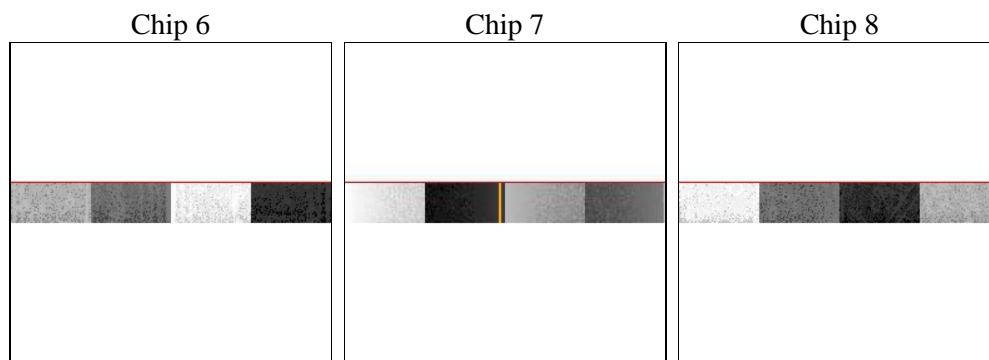
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4760.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	4863.0001933575	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	4863.0001933575	Sum of GTIs [s]
date	2018-10-28T02:27:00	Date and time of file creation	ontime7	4863.0001933575	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	4863.0001933575	Sum of GTIs [s]
			l1events	22247	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	6485	6682	9080
rejected events	5810	3389	7086
rejected %	89%	50%	78%

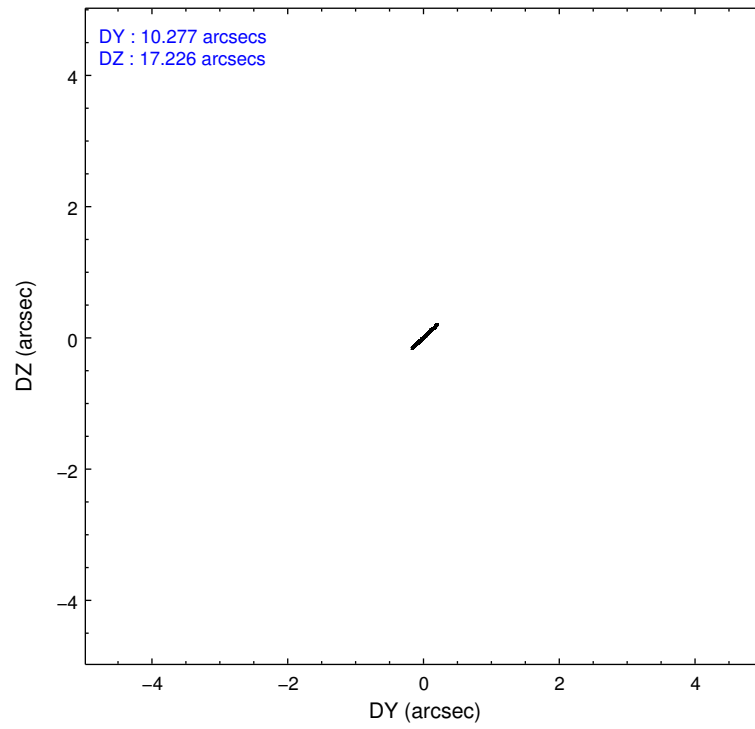
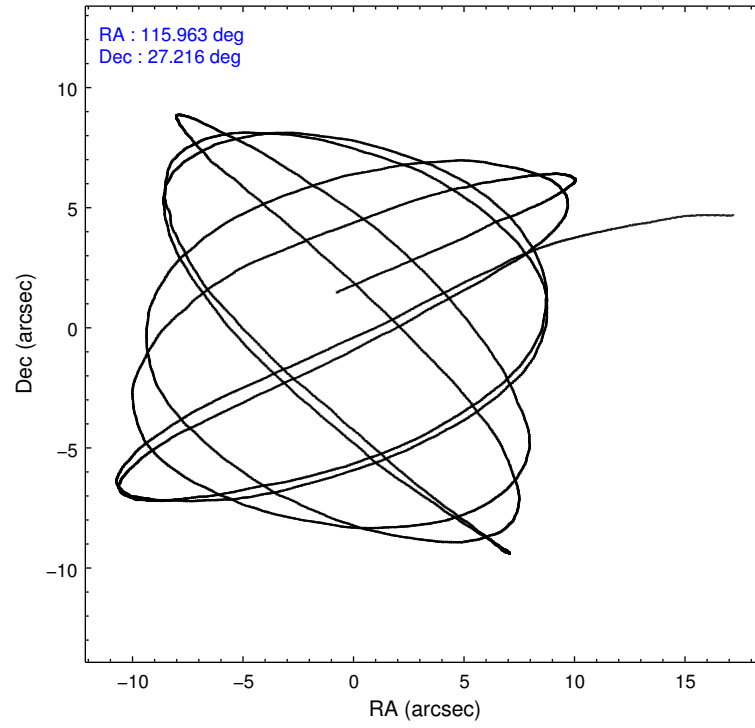
	ccd 6	ccd 7	ccd 8
grade 0 events	178	318	472
	2%	4%	5%
grade 1 events	0	8	6
	0%	0%	0%
grade 2 events	119	627	466
	1%	9%	5%
grade 3 events	99	386	213
	1%	5%	2%
grade 4 events	131	447	206
	2%	6%	2%
grade 5 events	173	643	356
	2%	9%	3%
grade 6 events	148	1518	637
	2%	22%	7%
grade 7 events	5637	2735	6724
	86%	40%	74%

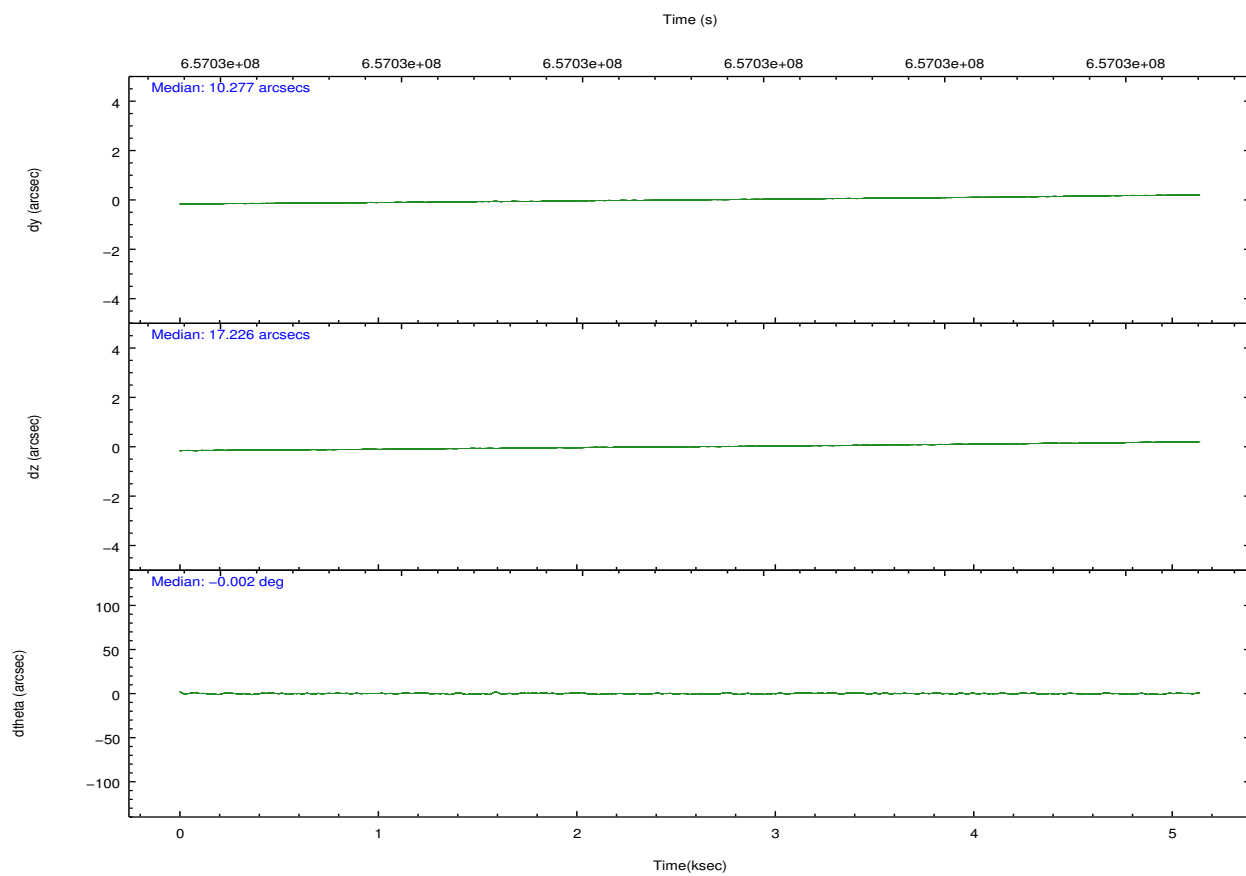
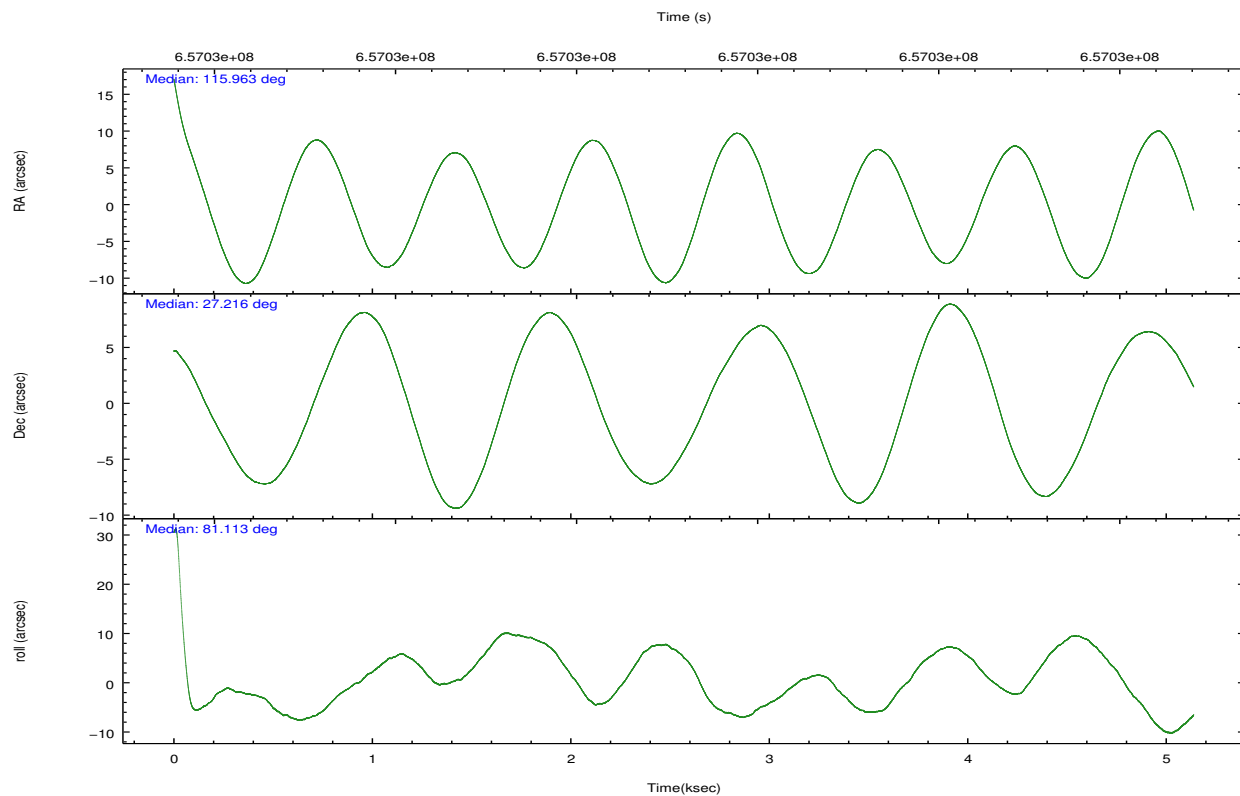
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	115.973815	115.9623773330623
[deg] Pointing Dec	27.190330	27.21582976923097
[deg] Pointing Roll	80.962574	81.12456607646335
[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)	657028389.184000	657027566.78738
Observation start date	2018-10-27T11:52:00	2018-10-27T11:39:26
[s] Observation end time (MET)	657033149.184000	657033531.7752399
Observation end date	2018-10-27T13:11:20	2018-10-27T13:18:51
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.6

2.3 Aspect



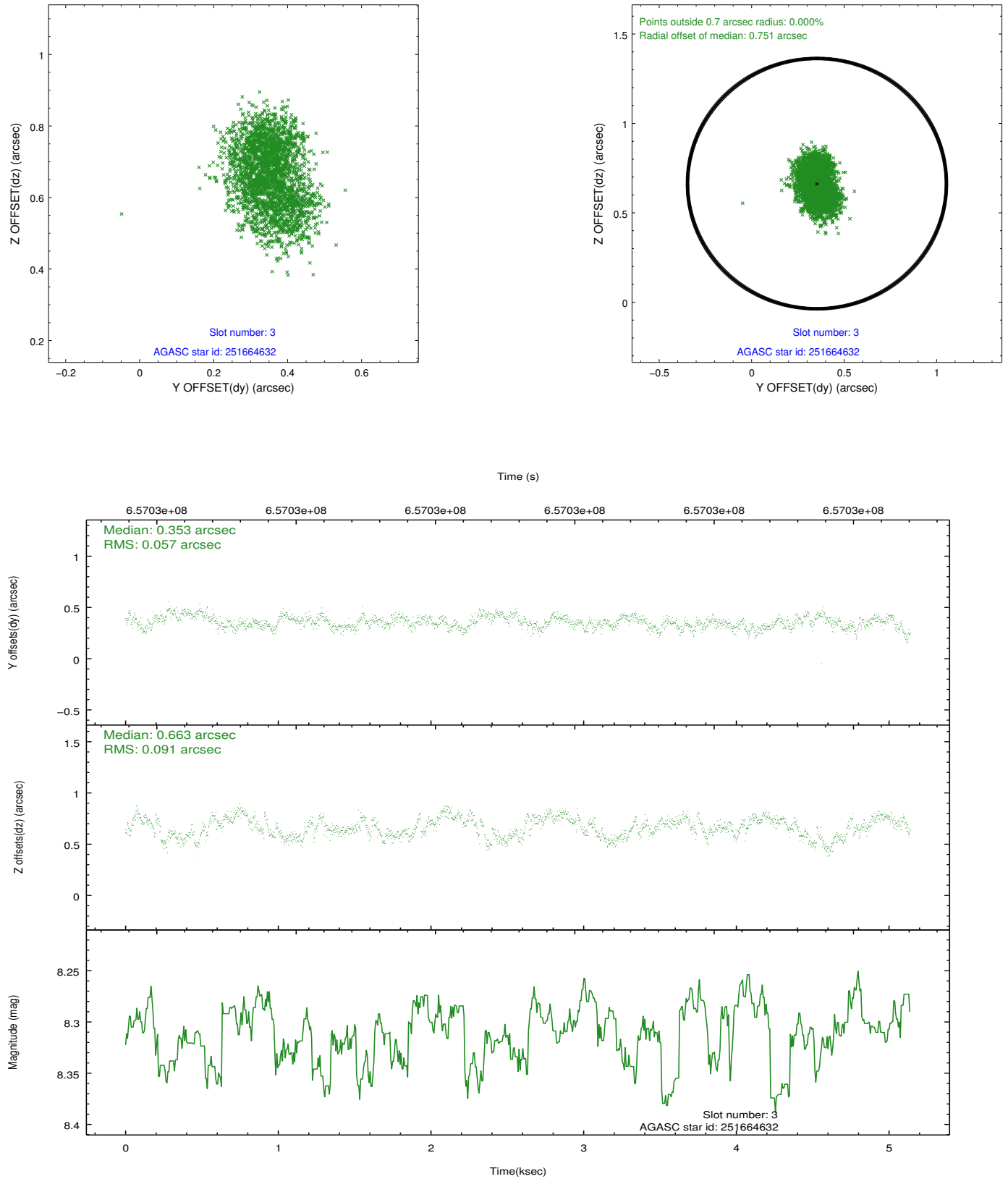


Slot Statistics

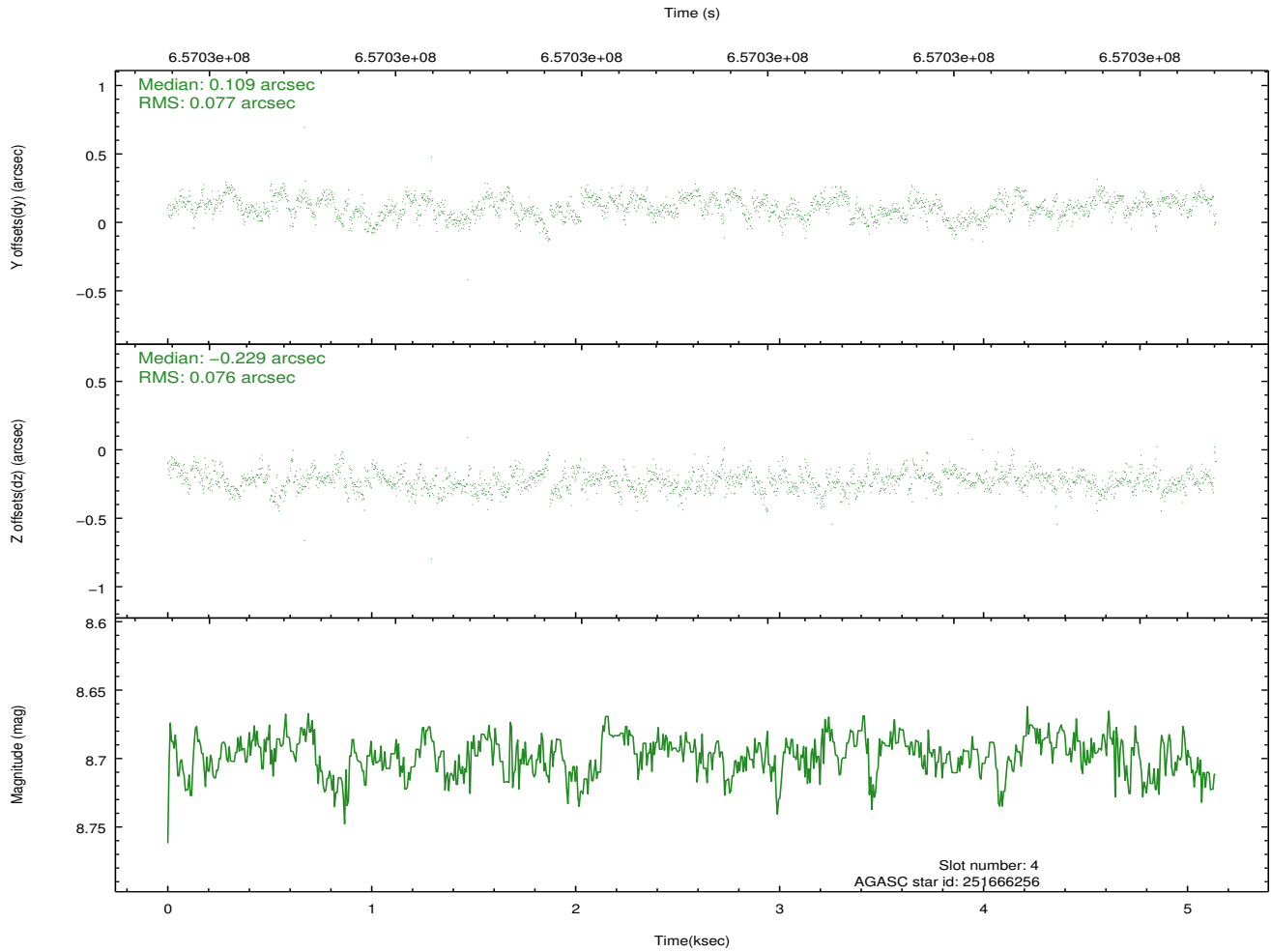
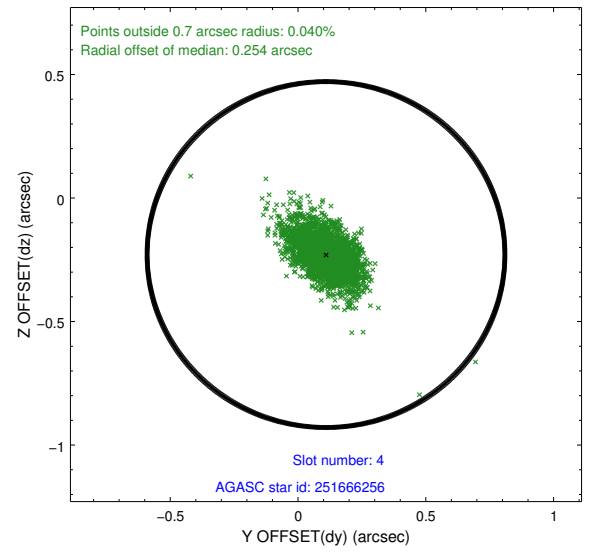
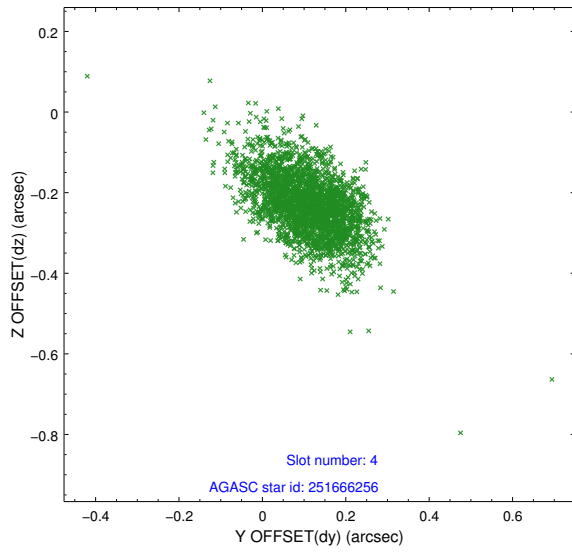
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.14	1254	1.000	-0.447	-0.316	0.006	0.012	0.000000	0.000000	-763.63	-1738
1	FID		ACIS-S-4	7.30	1254	1.000	0.476	0.256	0.007	0.012	0.000000	0.000000	2150.09	168
2	FID		ACIS-S-6	7.42	1254	1.000	-0.056	0.067	0.007	0.012	0.000000	0.000000	400.34	807
3	GUIDE	used	251664632	8.31	2505	1.000	0.353	0.663	0.116	0.176	116.470994	26.725552	-1397.48	-1840
4	GUIDE	used	251666256	8.70	2507	1.000	0.109	-0.229	0.110	0.189	115.231251	26.707444	-2085.66	2085
5	GUIDE	used	251671960	9.34	2503	1.000	0.215	-0.074	0.218	0.337	115.616226	26.995175	-873.26	1023
6	GUIDE	used	251675640	9.59	2499	1.000	-0.207	0.170	0.272	0.458	116.710049	27.249352	586.67	-2291
7	GUIDE	used	251672120	9.21	2504	1.000	-0.444	-0.516	0.242	0.403	115.307448	27.550963	953.51	2304

2.4 Star Slots

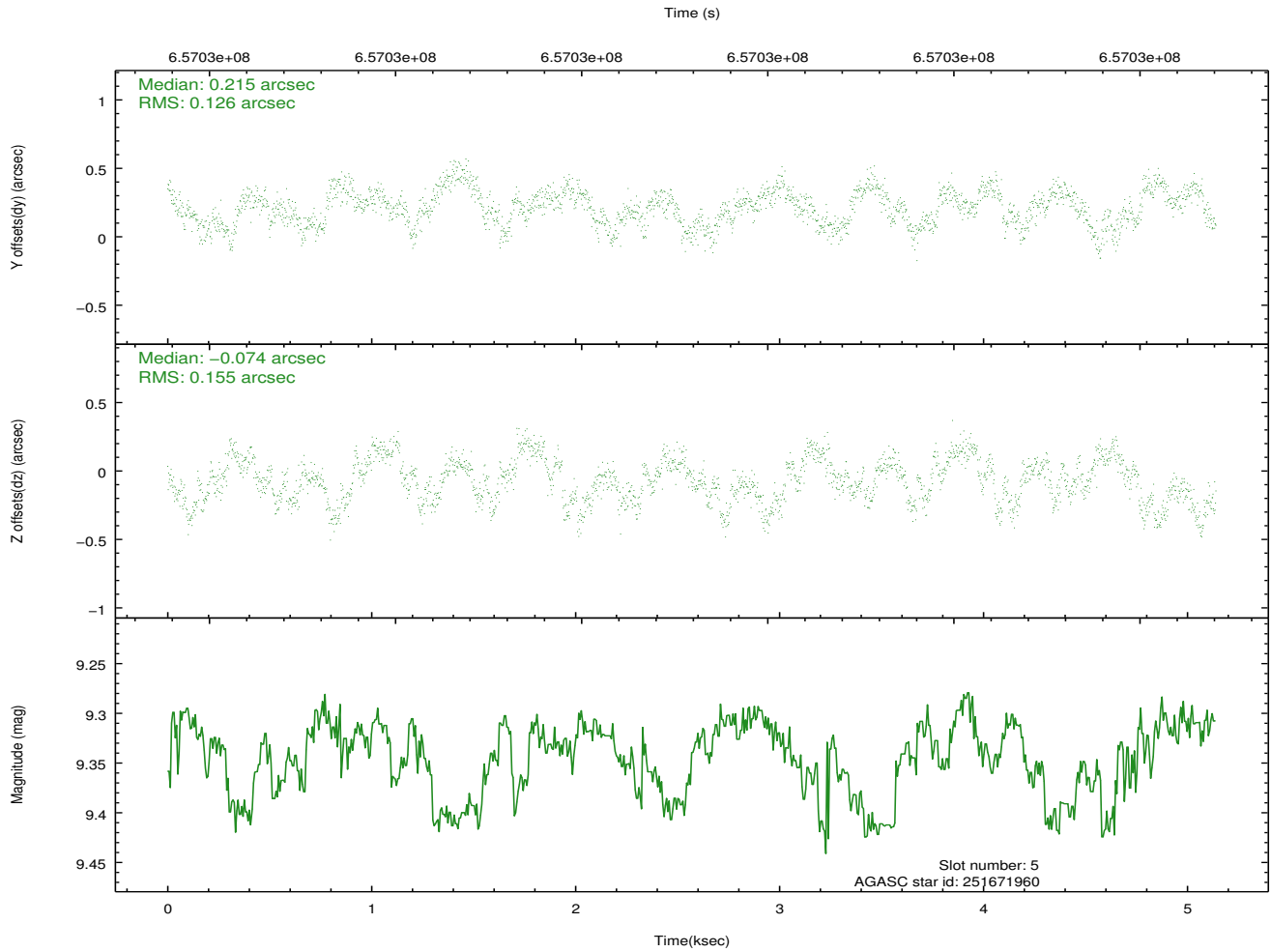
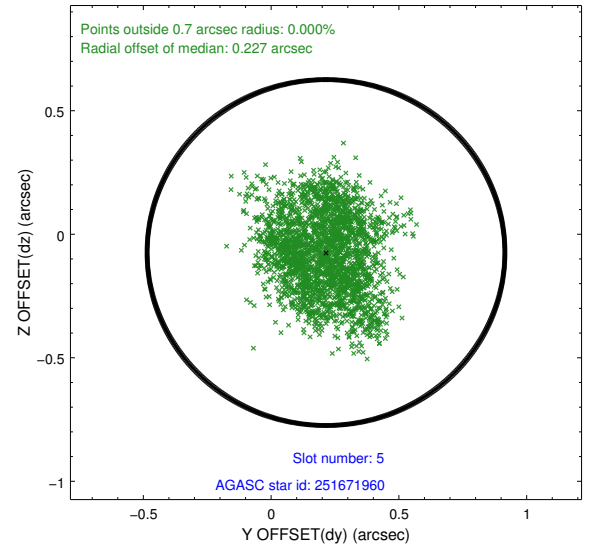
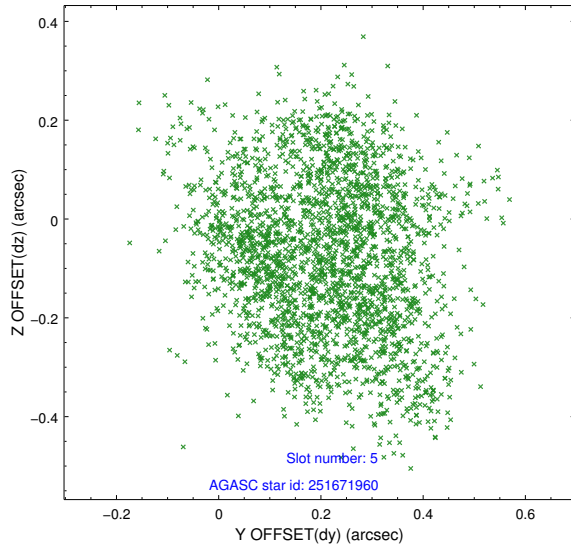
2.4.1 Slot 3



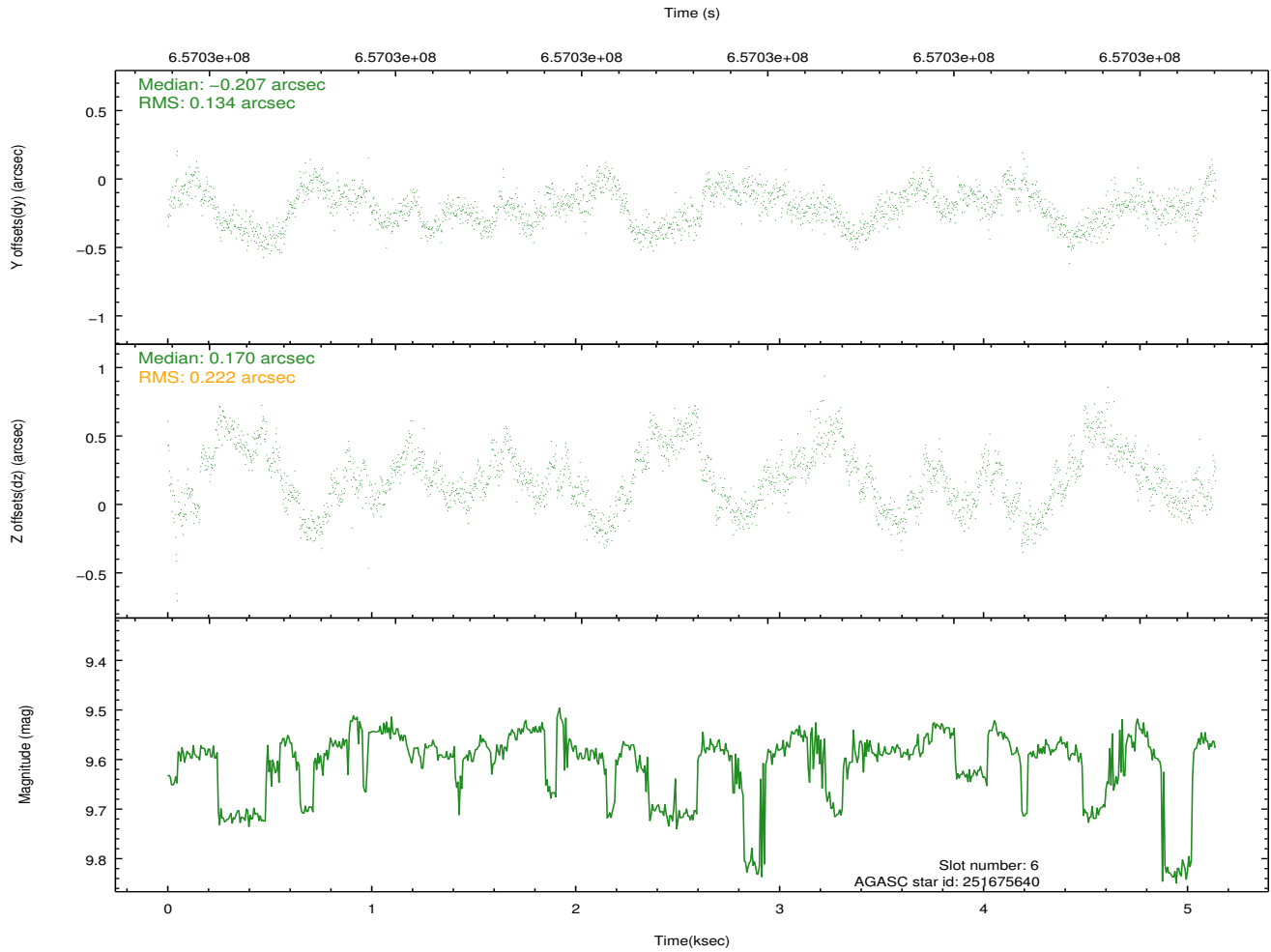
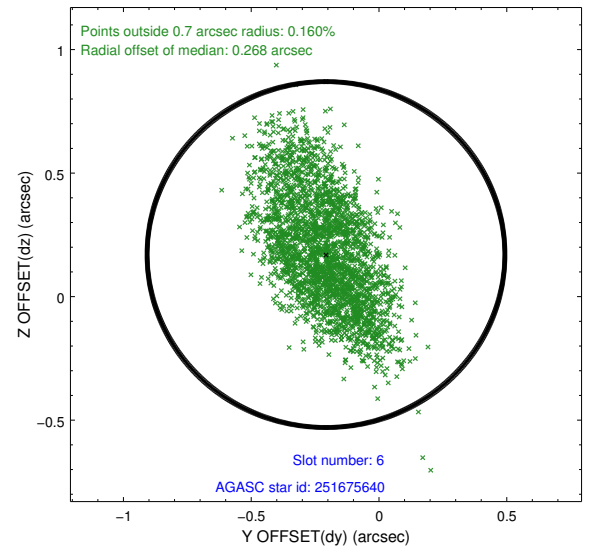
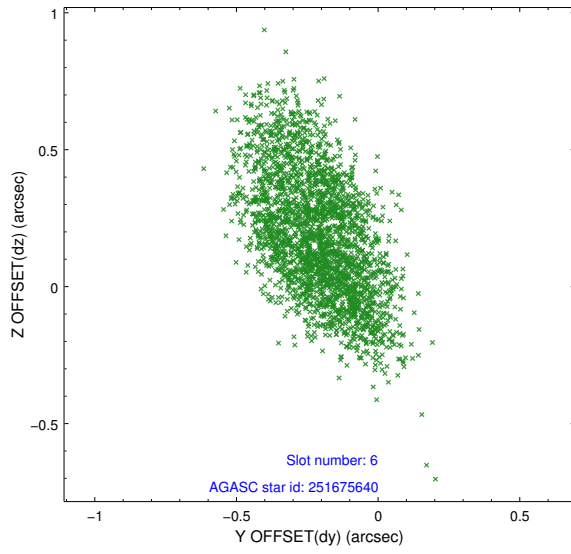
2.4.2 Slot 4



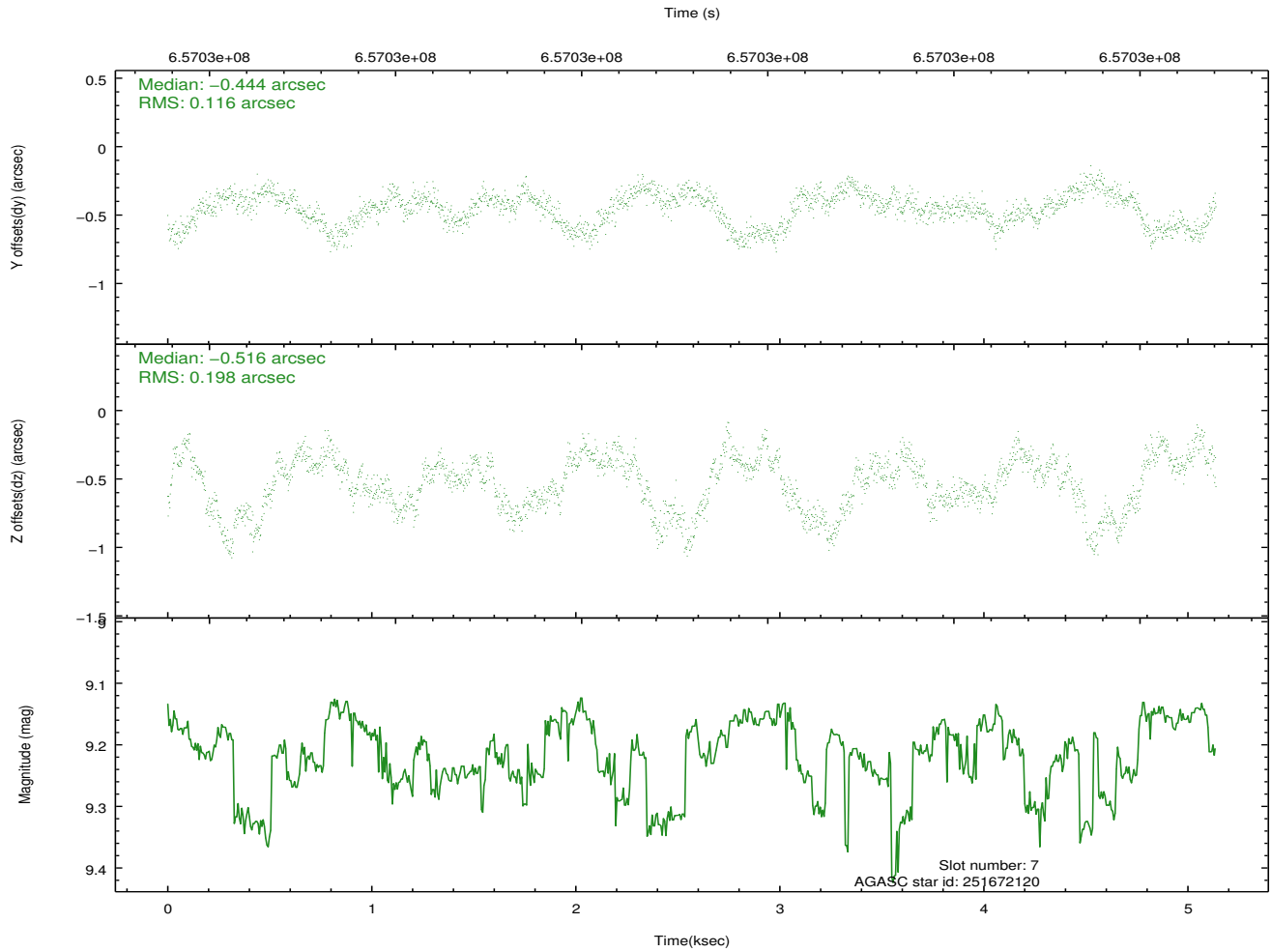
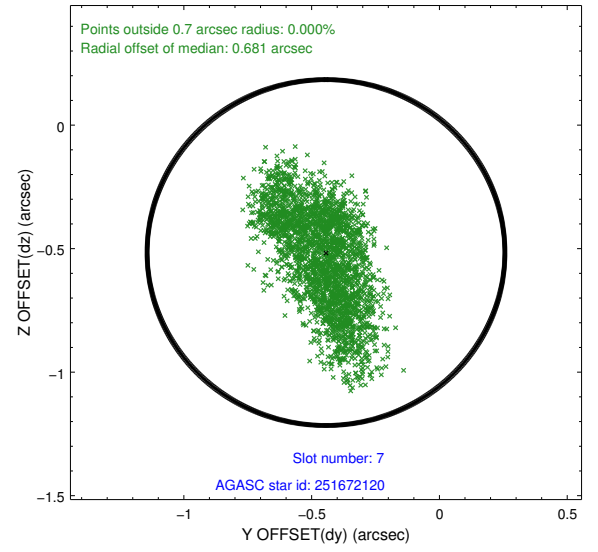
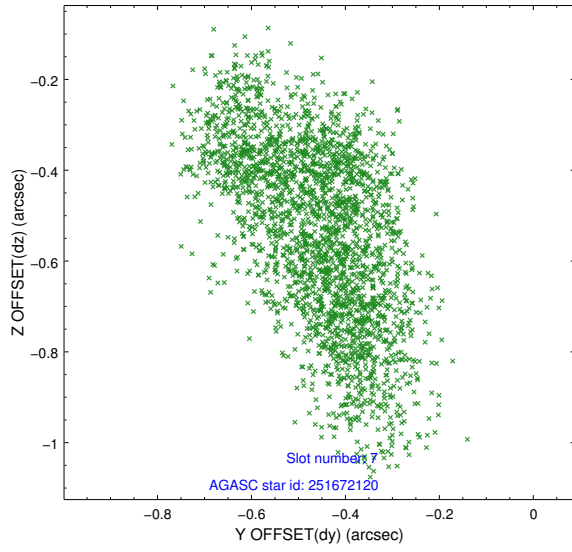
2.4.3 Slot 5



2.4.4 Slot 6

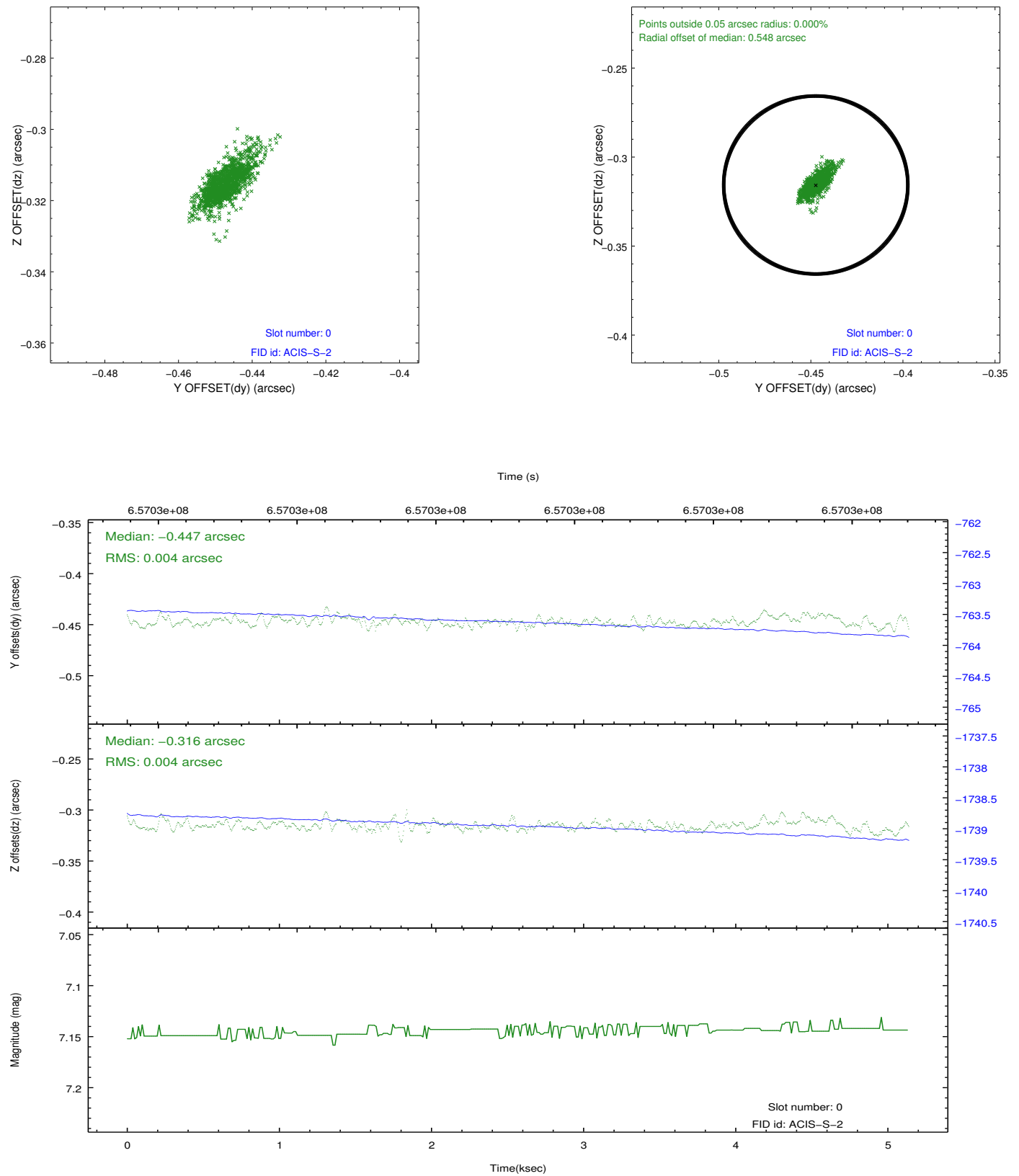


2.4.5 Slot 7

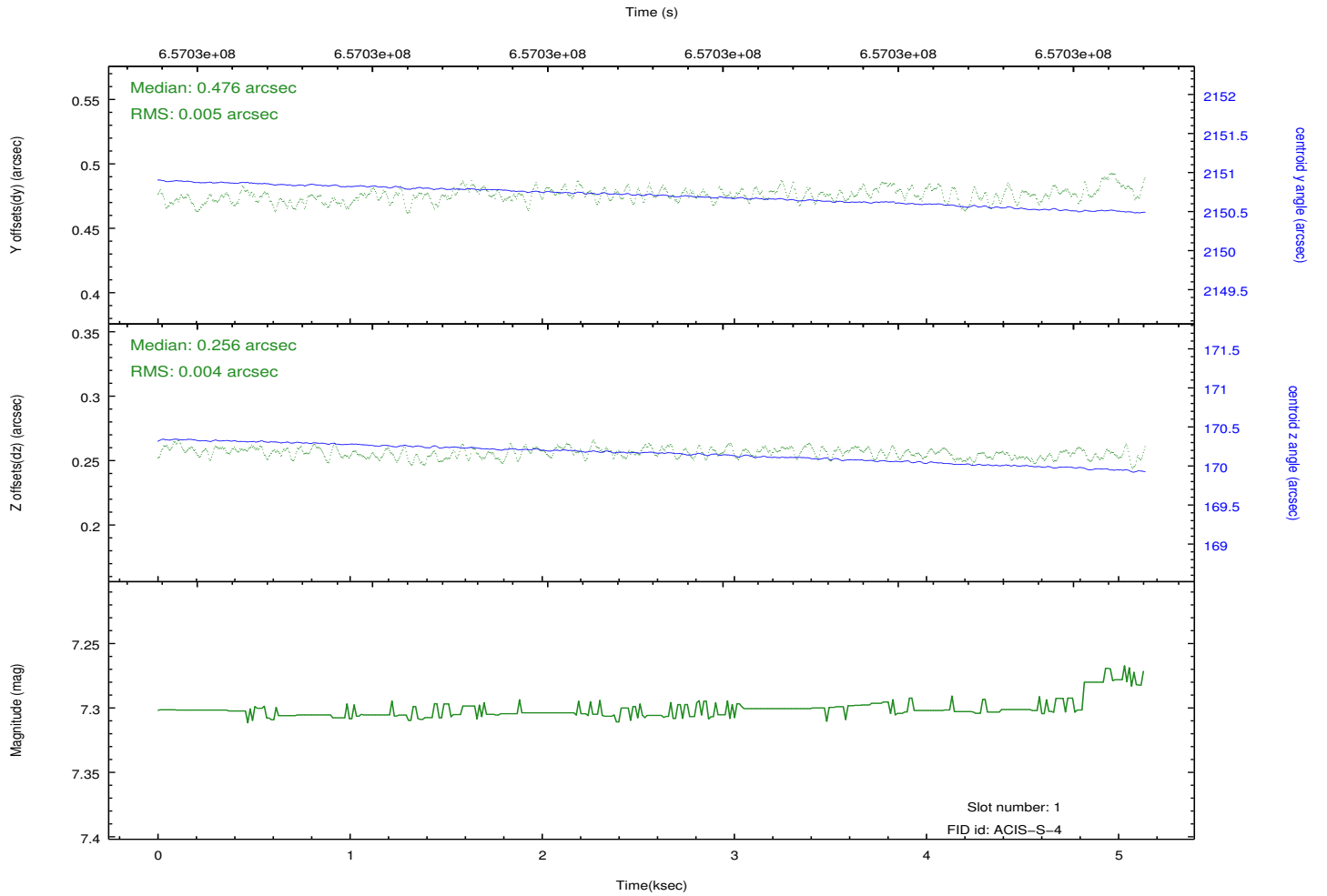
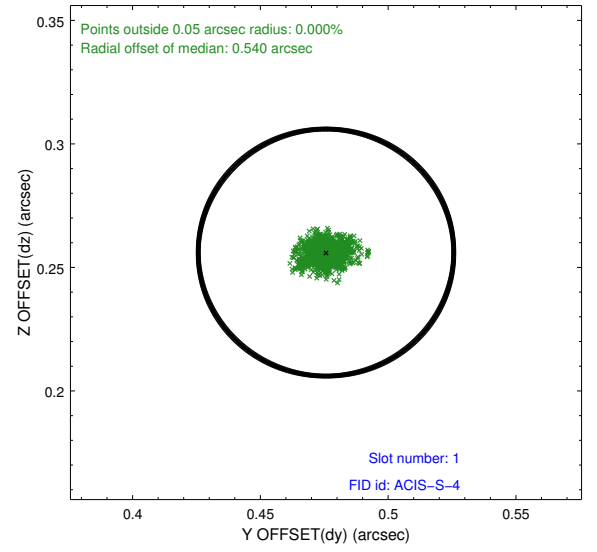
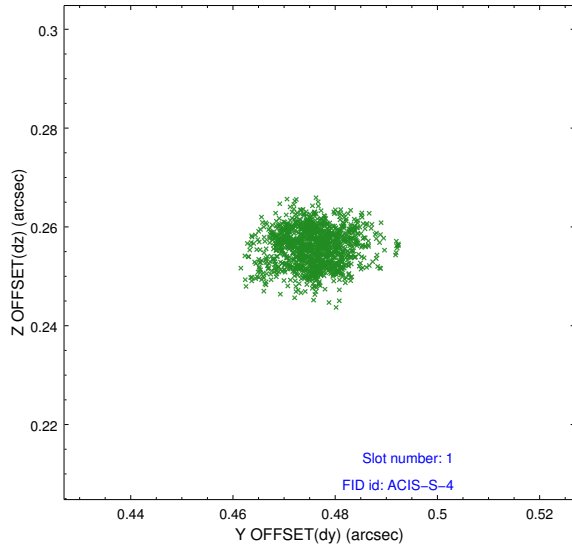


2.5 FID Slots

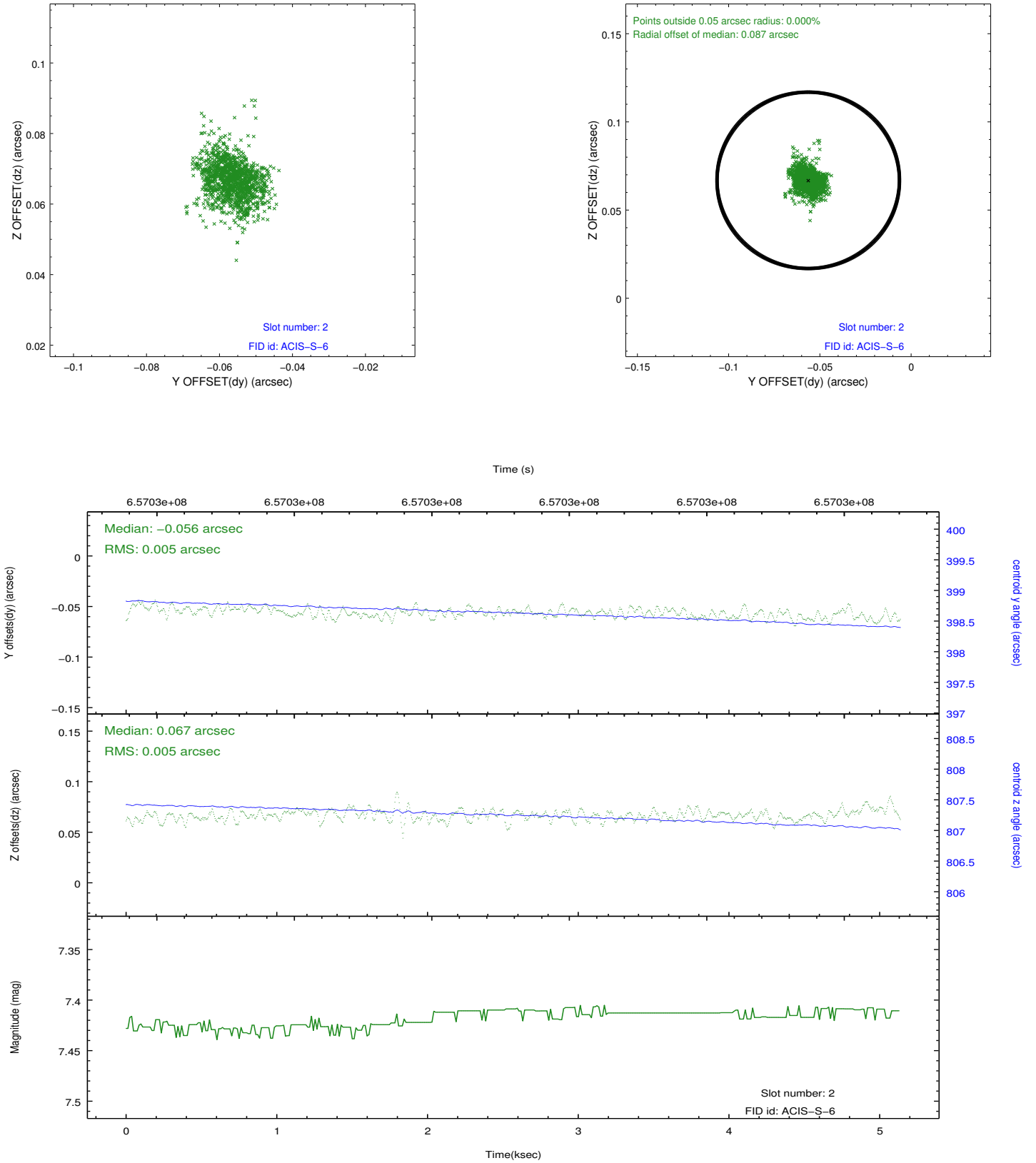
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2018.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8630001933575

A.2 Comments