

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19879 - L2 Version 1
Chandra X-Ray Center

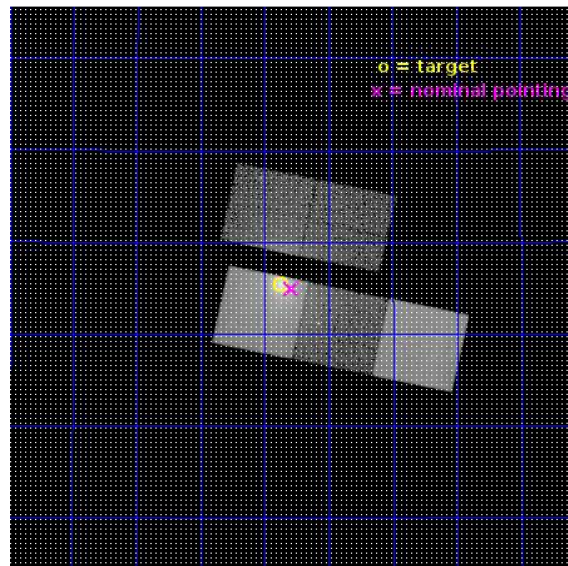
L2 Processing Date : Apr 28 2017

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1 Front

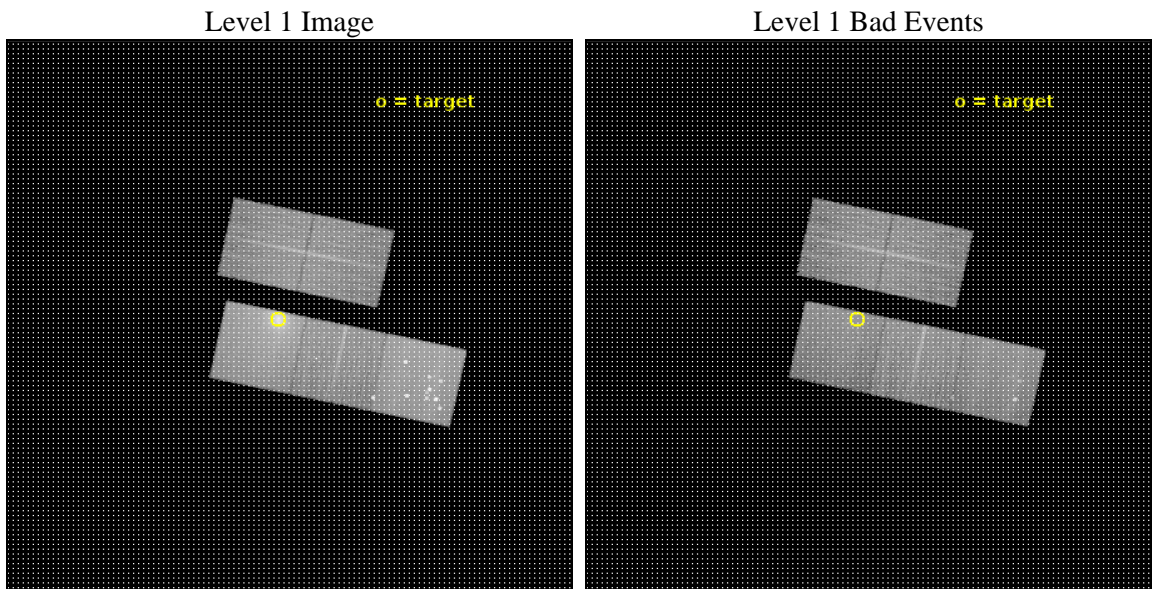
seq_num	890144	Sequence number
obs_id	19879	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.1979795085	Nominal RA [deg]
dec_nom	26.582257958422	Nominal Dec [deg]
roll_nom	192.03928777032	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20050.800154328	Sum of GTIs [s]
livetime	19788.821689128	Livetime [s]
ontime2	20050.800154328	Sum of GTIs [s]
ontime3	20050.800154328	Sum of GTIs [s]
ontime5	20050.800154328	Sum of GTIs [s]
ontime6	20044.517903447	Sum of GTIs [s]
ontime7	20050.800154328	Sum of GTIs [s]
l2events	317713	Number of level 2 events



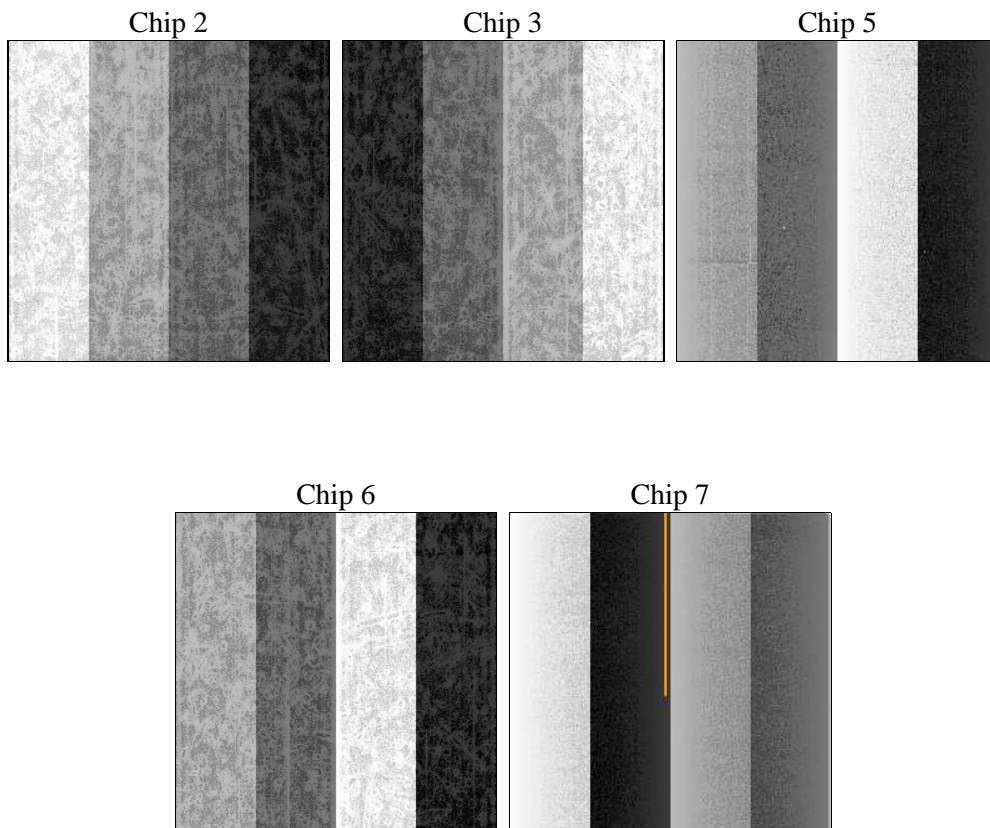
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	20050.800154328	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	20050.800154328	Sum of GTIs [s]
date	2017-04-28T15:19:27	Date and time of file creation	ontime3	20050.800154328	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	20050.800154328	Sum of GTIs [s]
			ontime6	20044.517903447	Sum of GTIs [s]
			ontime7	20050.800154328	Sum of GTIs [s]
			l1events	976271	Number of level 1 events

2.1.4 Events

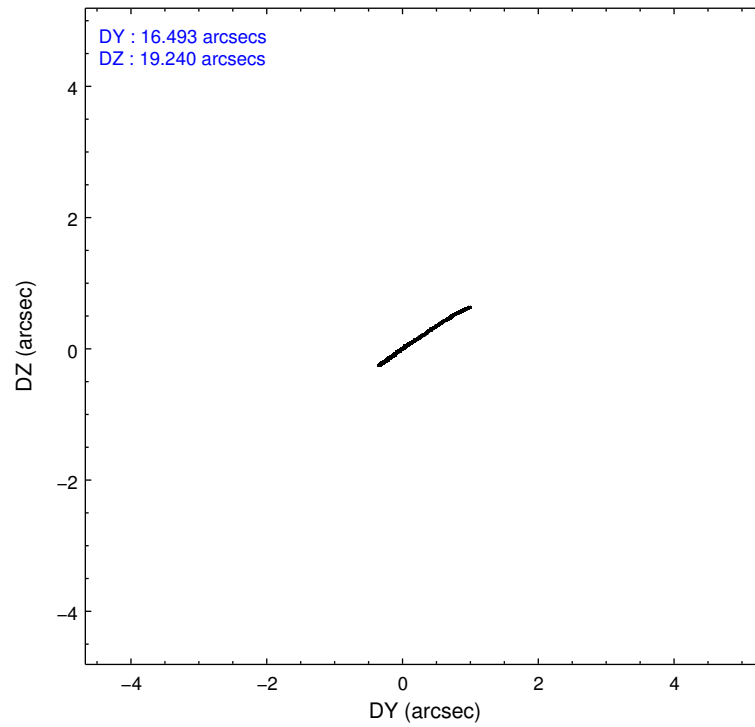
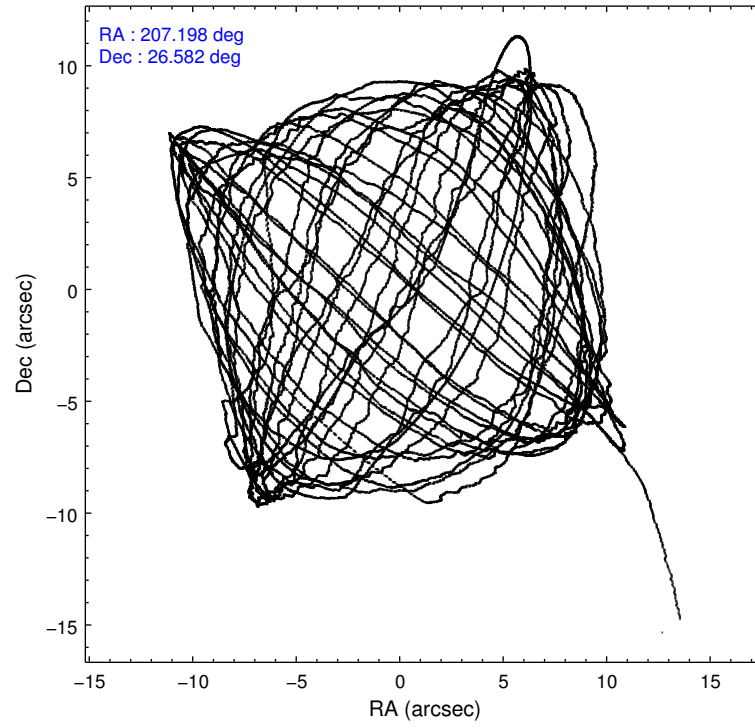
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	142200	144000	264261	155346	270464
rejected events	124916	122926	120486	131613	105360
rejected %	87%	85%	45%	84%	38%

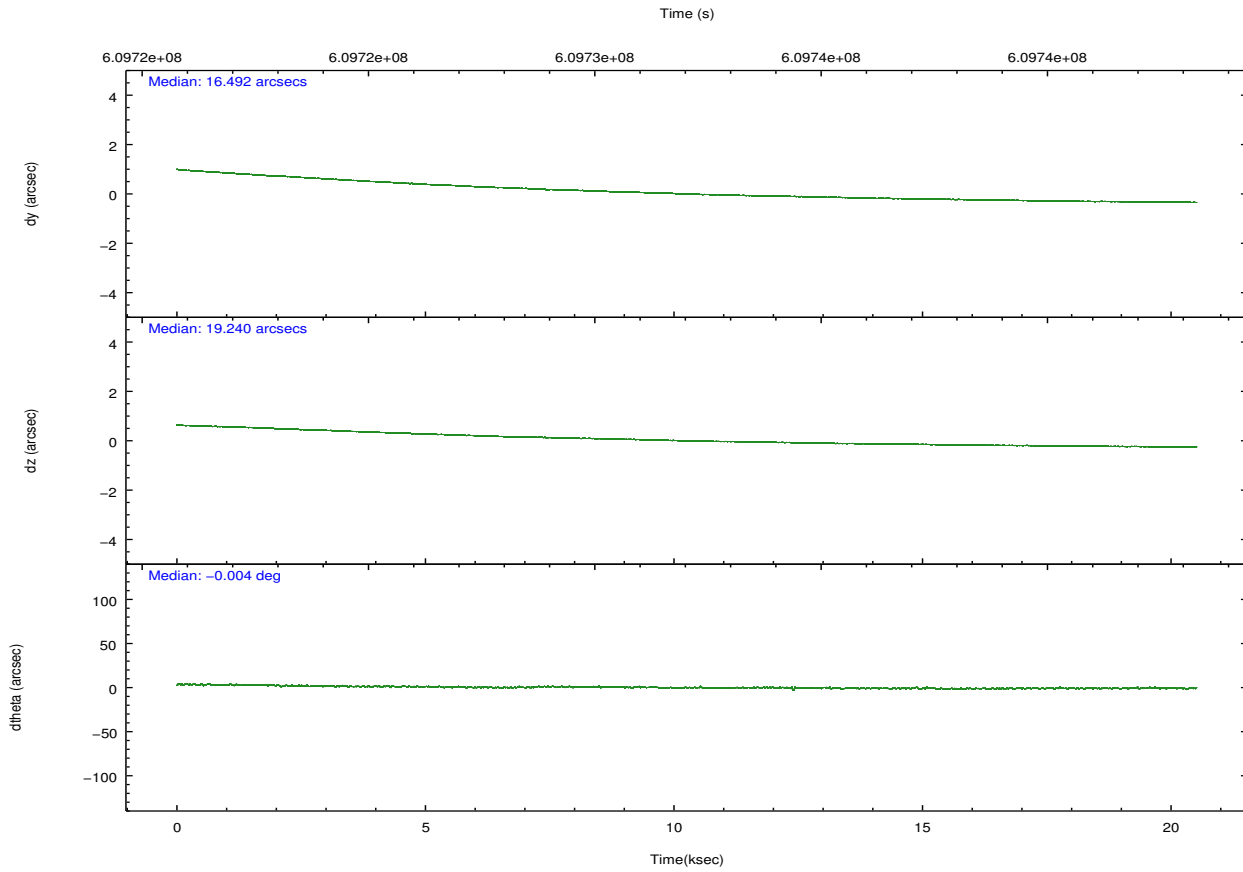
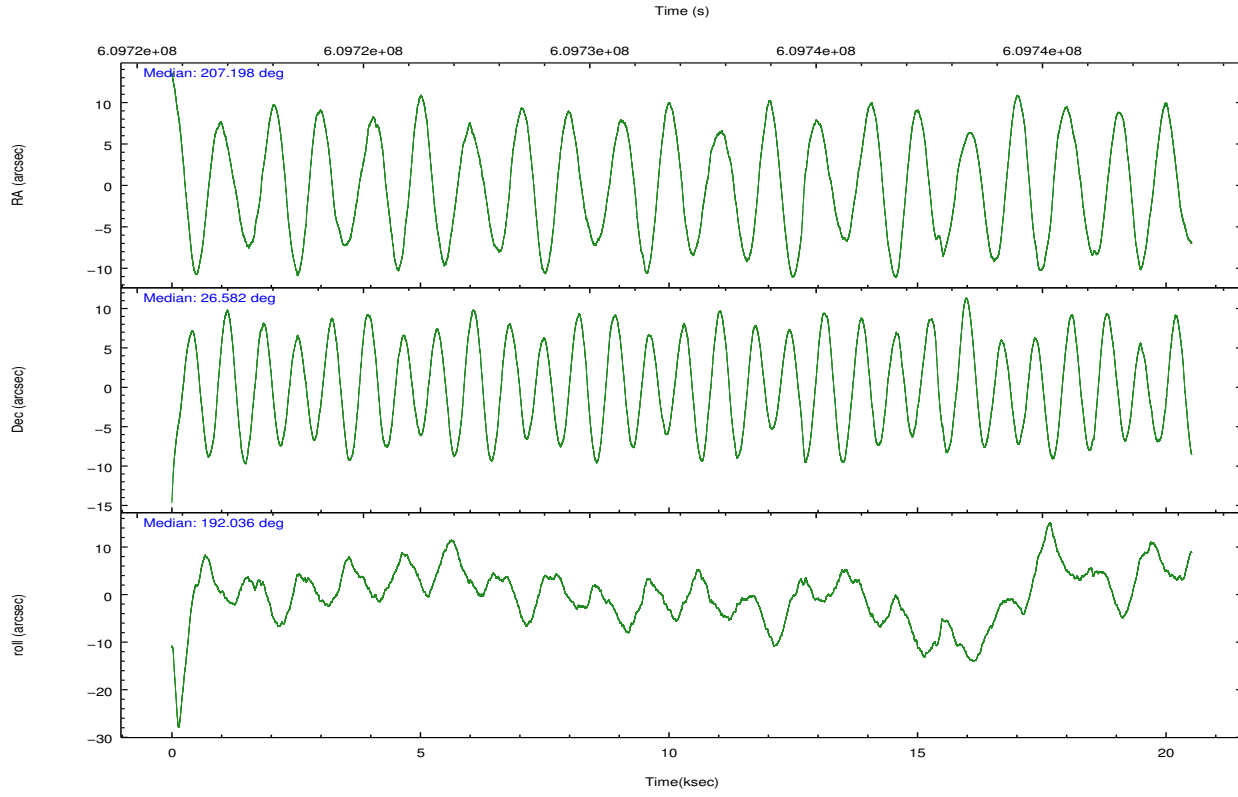
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7463	10465	33428	11093	28580
	5%	7%	12%	7%	10%
grade 1 events	98	88	711	99	252
	0%	0%	0%	0%	0%
grade 2 events	3616	3723	40761	4990	40906
	2%	2%	15%	3%	15%
grade 3 events	1605	1835	4892	1669	15085
	1%	1%	1%	1%	5%
grade 4 events	1635	1760	4842	1639	14708
	1%	1%	1%	1%	5%
grade 5 events	5150	6228	15250	6295	17366
	3%	4%	5%	4%	6%
grade 6 events	2966	3293	59881	4343	65853
	2%	2%	22%	2%	24%
grade 7 events	119667	116608	104496	125218	87714
	84%	80%	39%	80%	32%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	207.220493	207.1979795084999	CCD I2 on	Y	Y
[deg] Pointing Dec	26.600920	26.58225795842162	CCD I3 on	O1	Y
[deg] Pointing Roll	191.872564	192.0392877703199	CCD S0 on	N	N
[s] Window start time (MET)	607392069.184000	607392069.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	609897669.184000	609897669.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	N	N
[mm] SIM translation stage pos	-199.932523	-199.9358384647497	CCD S5 on	N	N
[mm] SIM translation stage offset	9.8000000000000001	9.803315881741838	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	609722278.184000	609721170.4493099	On-chip summing requested	N	N
Observation start date	2017-04-27T23:16:49	2017-04-27T22:59:30	Subarray requested	NONE	NONE
[s] Observation end time (MET)	609742278.184000	609742412.55055	Alternating exposures requested	N	N
Observation end date	2017-04-28T04:50:09	2017-04-28T04:53:32	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



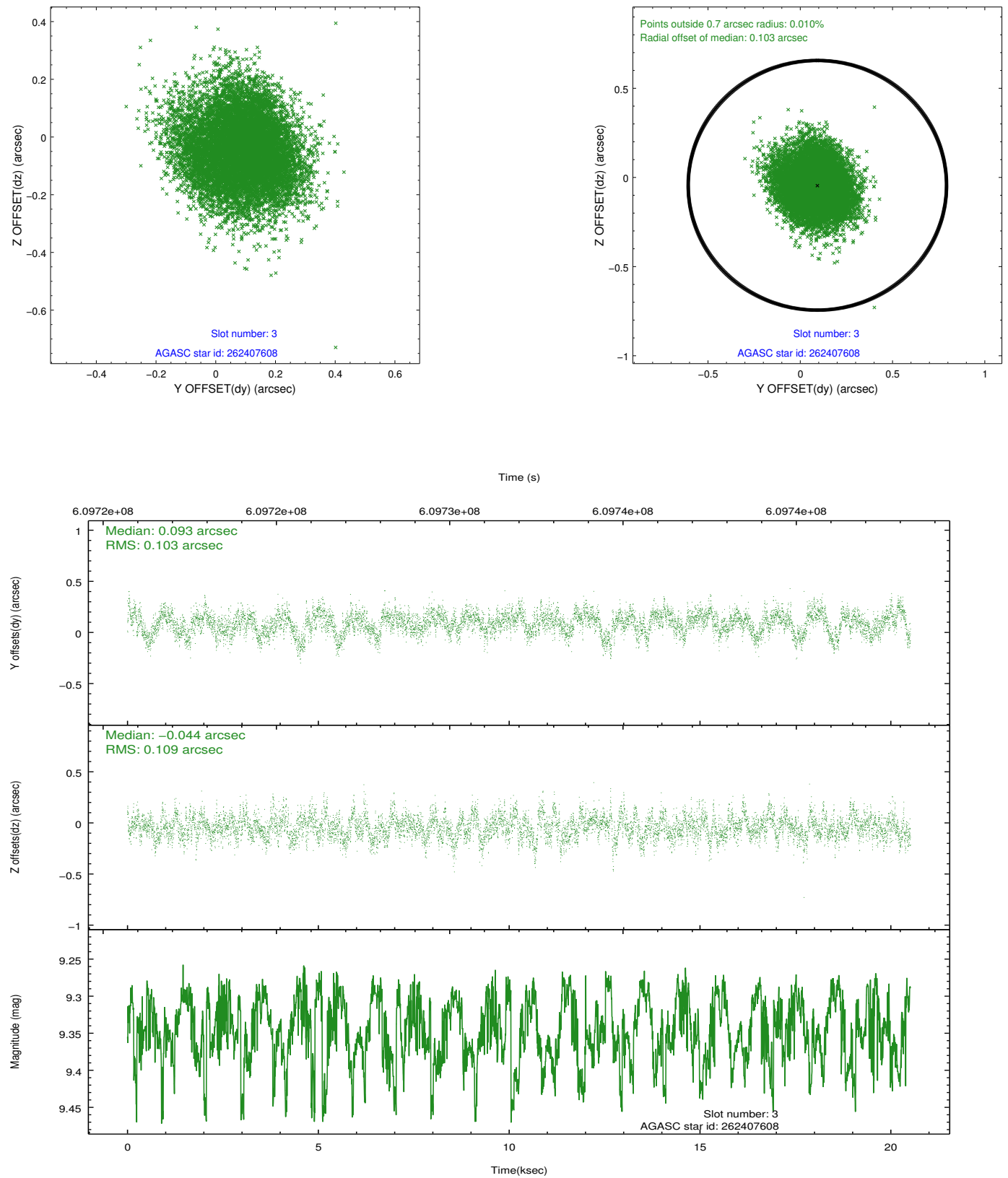


Slot Statistics

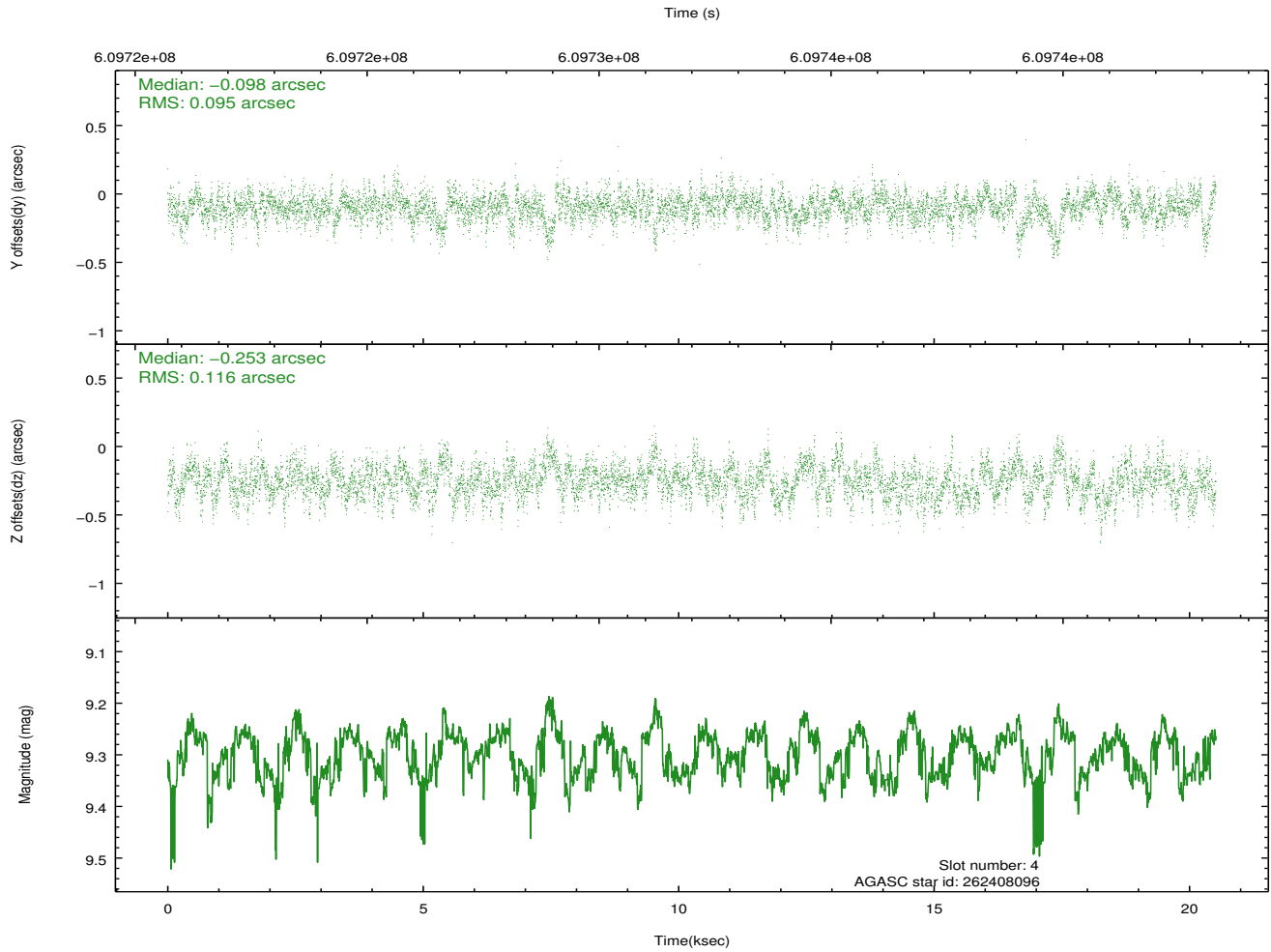
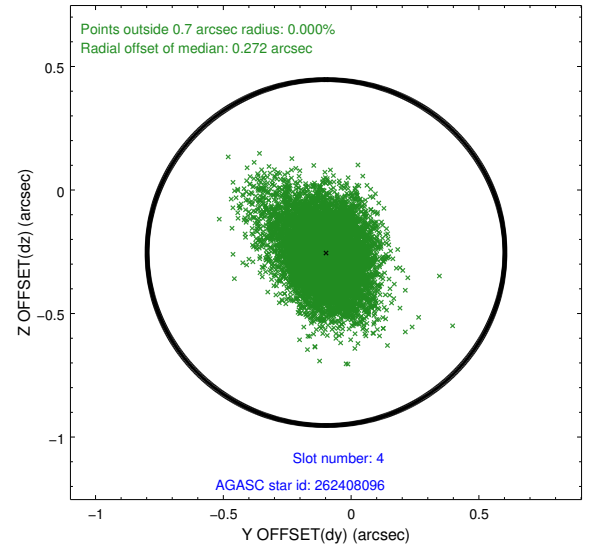
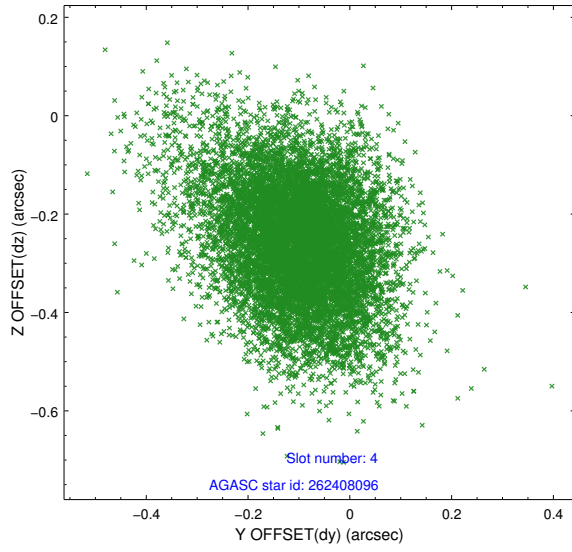
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	5004	-0.124	0.051	0.009	0.016	0.000000	0.000000	-770.33	-1538.68
1	FID		ACIS-S-4	7.22	5004	0.474	0.047	0.009	0.017	0.000000	0.000000	2143.47	369.66
2	FID		ACIS-S-5	7.23	5004	-0.382	-0.088	0.014	0.022	0.000000	0.000000	-1823.20	363.40
3	GUIDE	used	262407608	9.35	9993	0.093	-0.044	0.161	0.255	207.378401	26.435507	-375.54	687.41
4	GUIDE	used	262408096	9.30	9989	-0.098	-0.253	0.155	0.266	207.011678	26.515421	722.19	161.94
5	GUIDE	used	262408512	7.97	10008	0.125	0.287	0.147	0.235	207.800210	27.128796	-2208.93	-1481.44
6	GUIDE	used	262408936	9.64	9925	0.026	0.142	0.233	0.397	207.154731	26.726554	113.76	-485.70
7	GUIDE	used	262414456	9.24	9996	-0.144	-0.124	0.186	0.332	208.043290	26.129682	-2255.30	2199.24

2.4 Star Slots

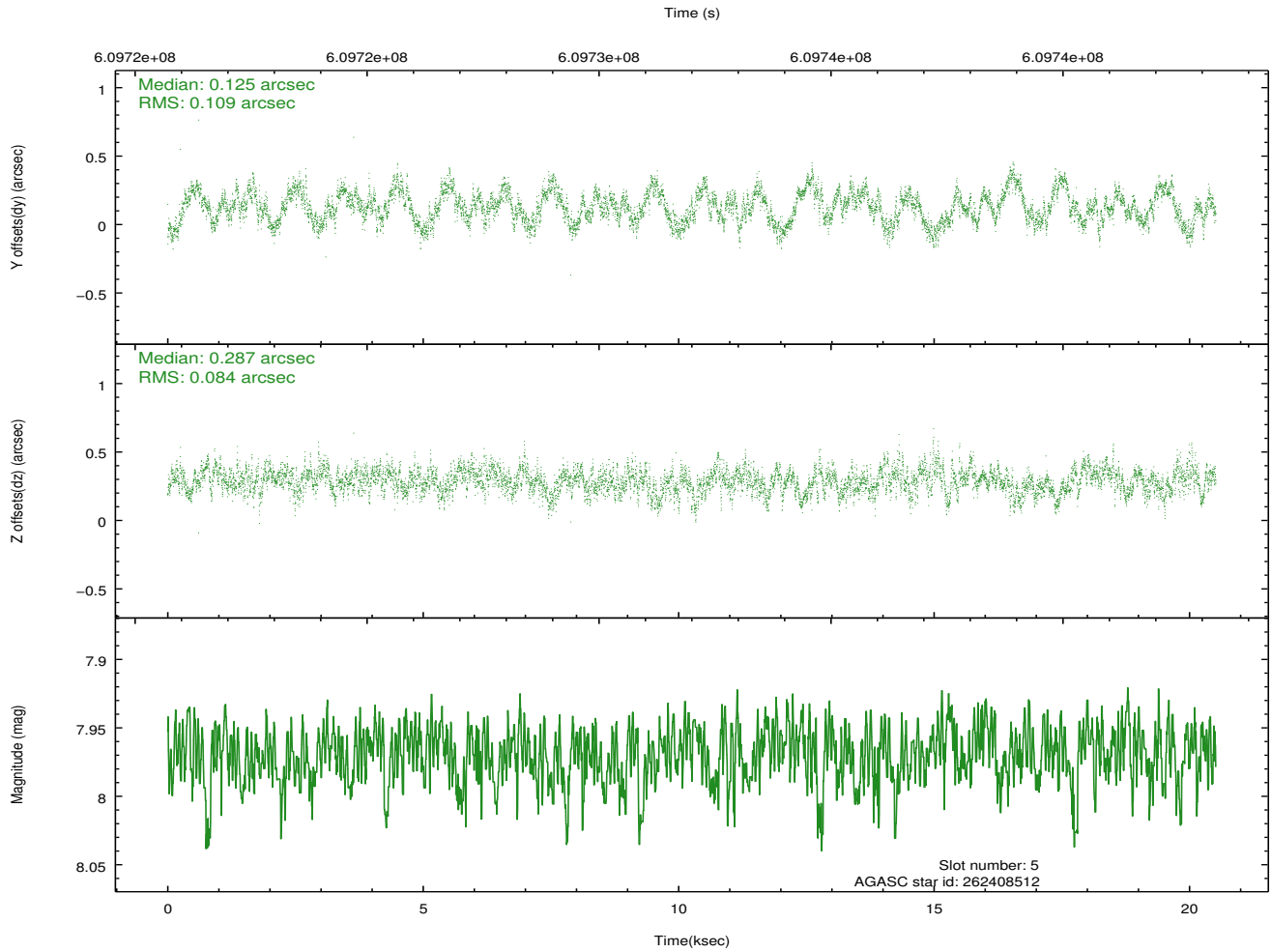
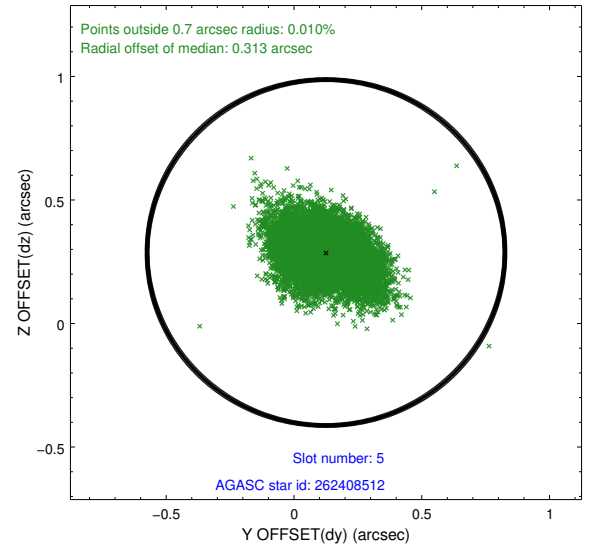
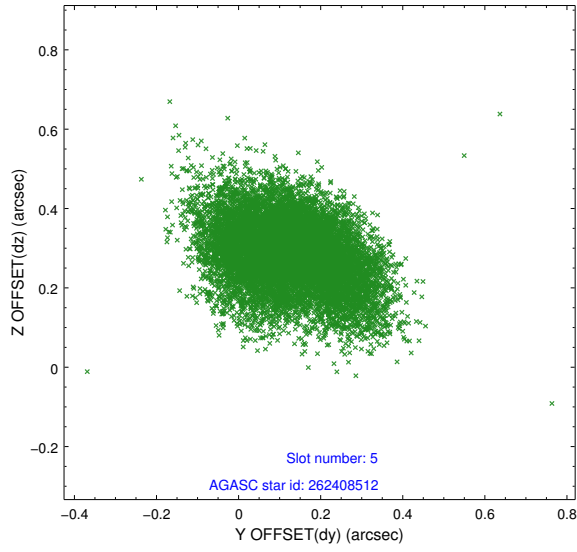
2.4.1 Slot 3



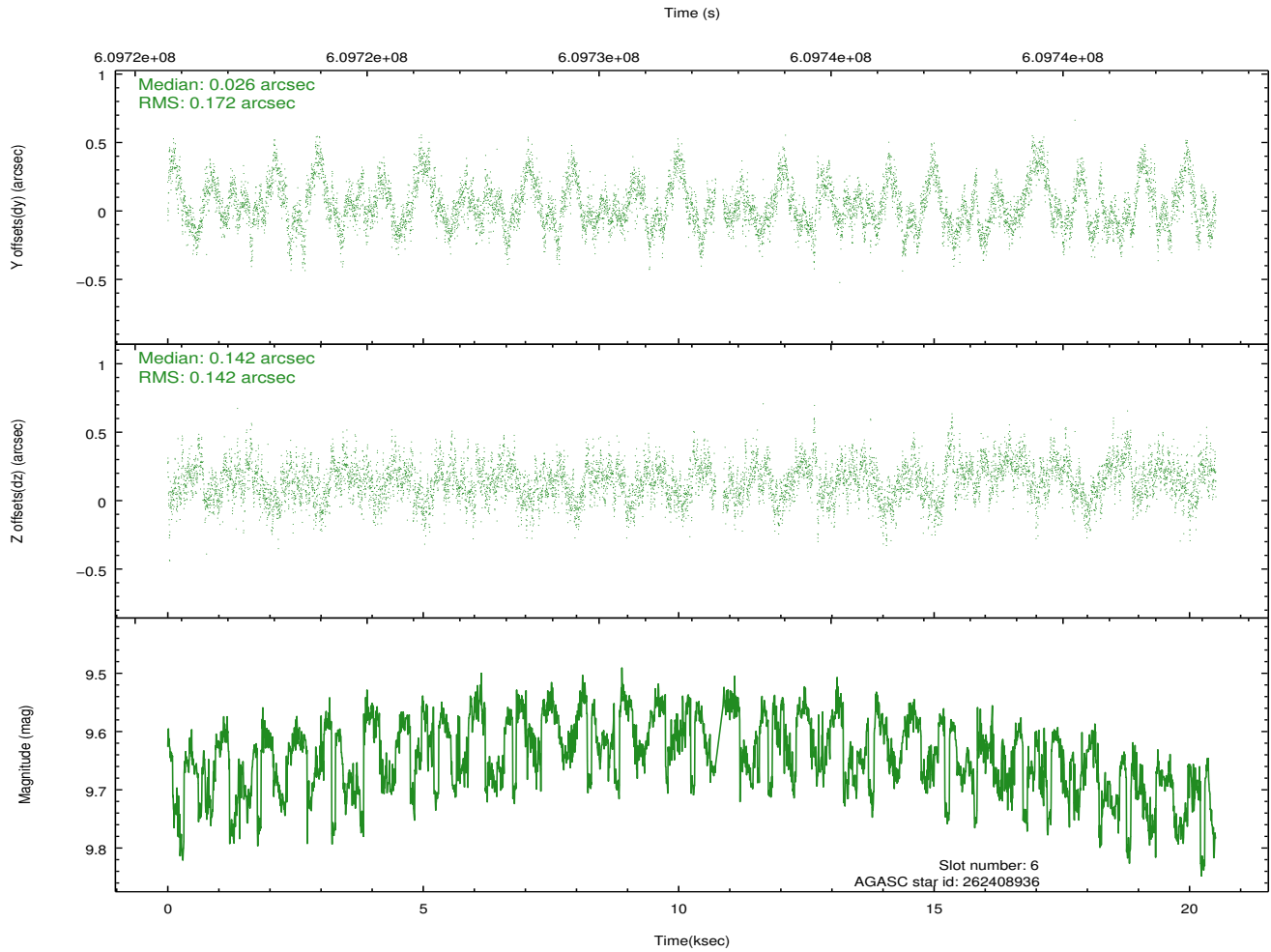
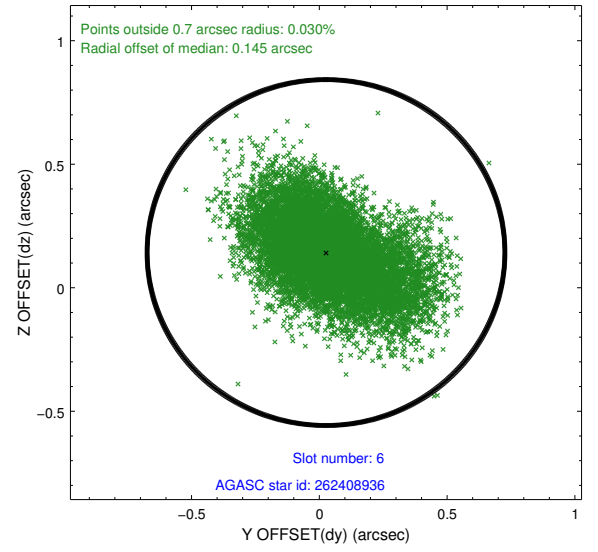
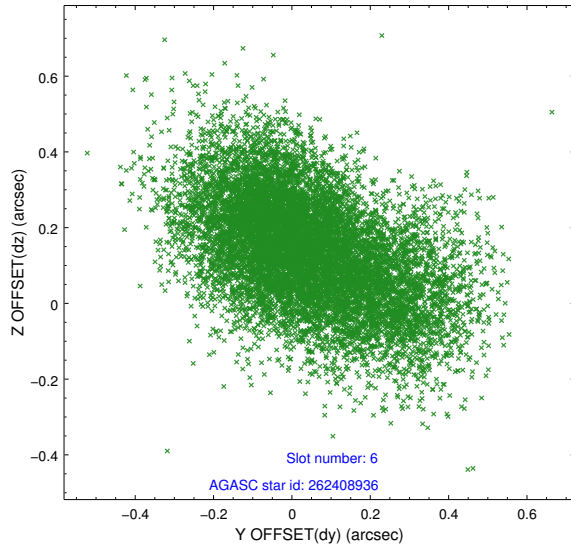
2.4.2 Slot 4



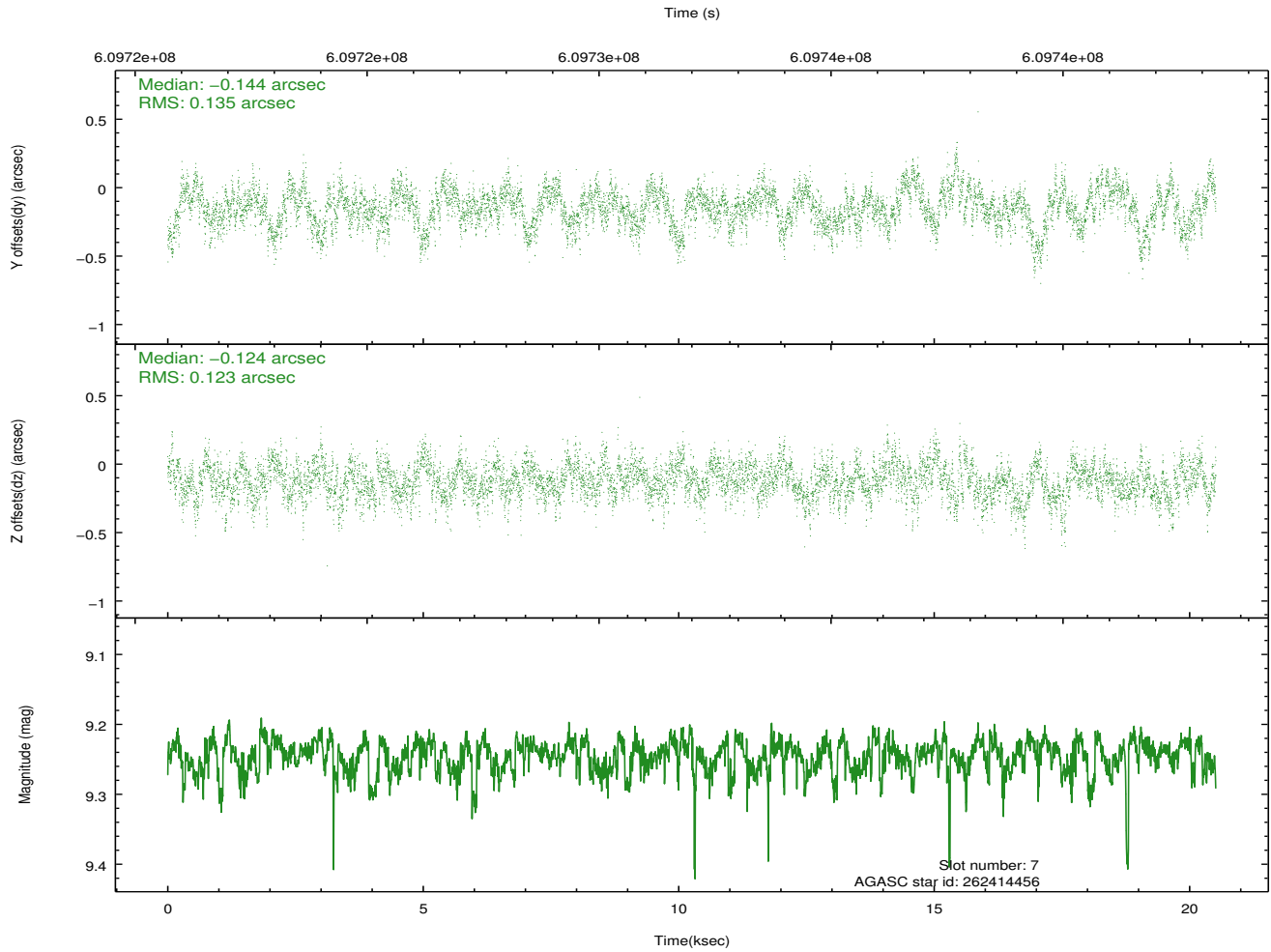
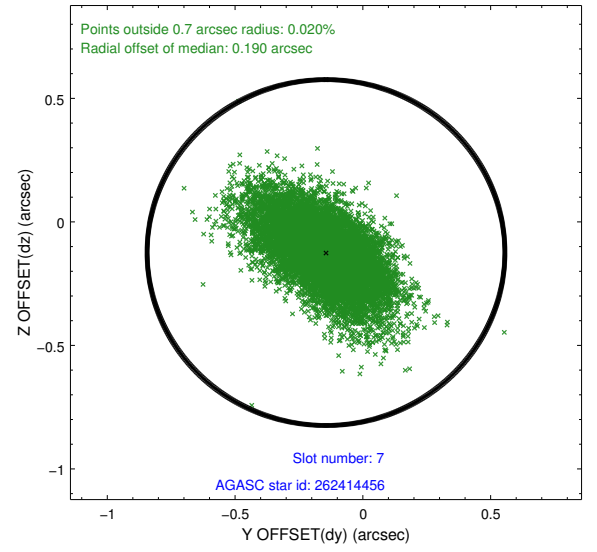
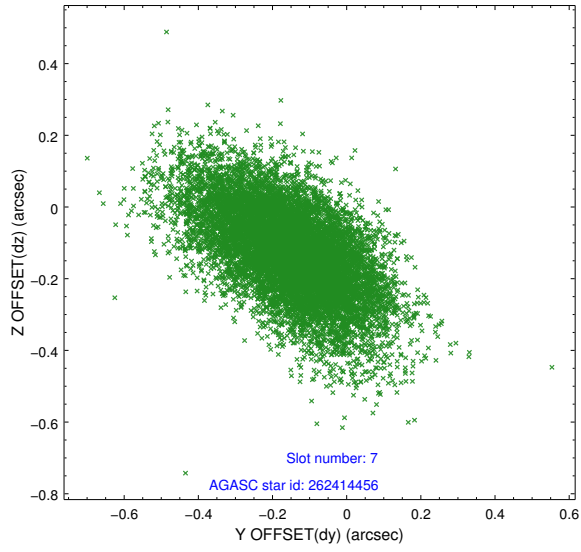
2.4.3 Slot 5



2.4.4 Slot 6

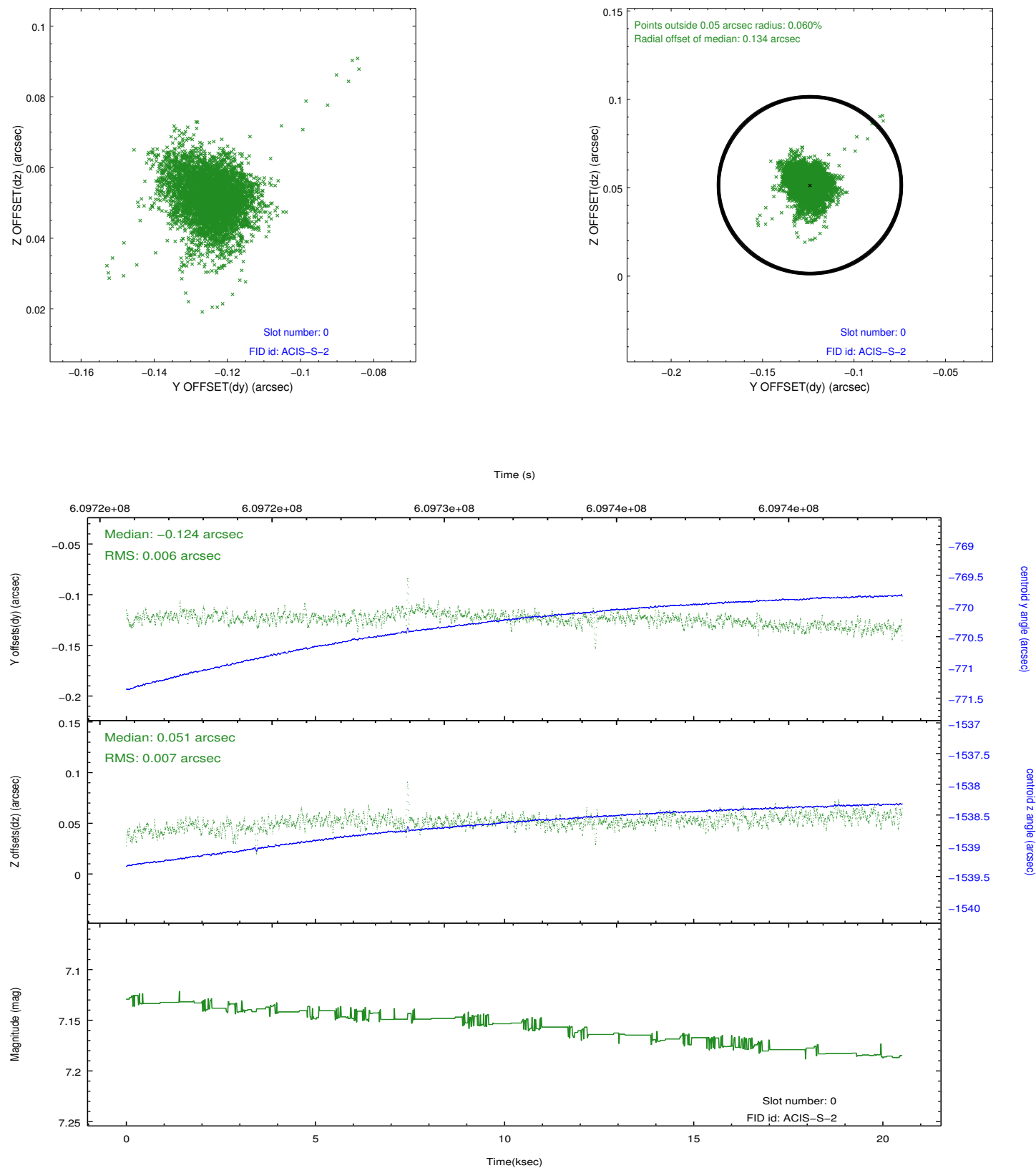


2.4.5 Slot 7

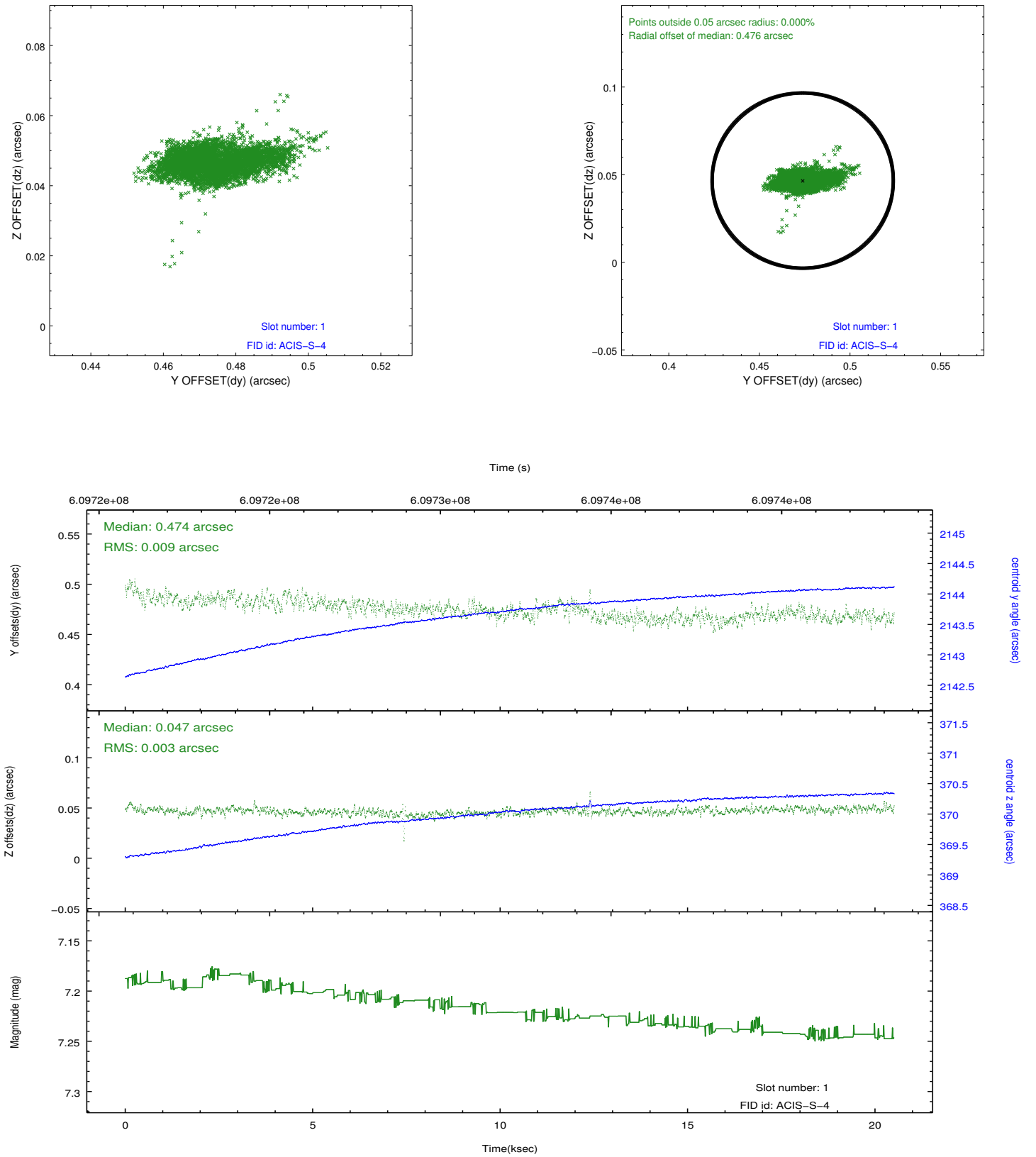


2.5 FID Slots

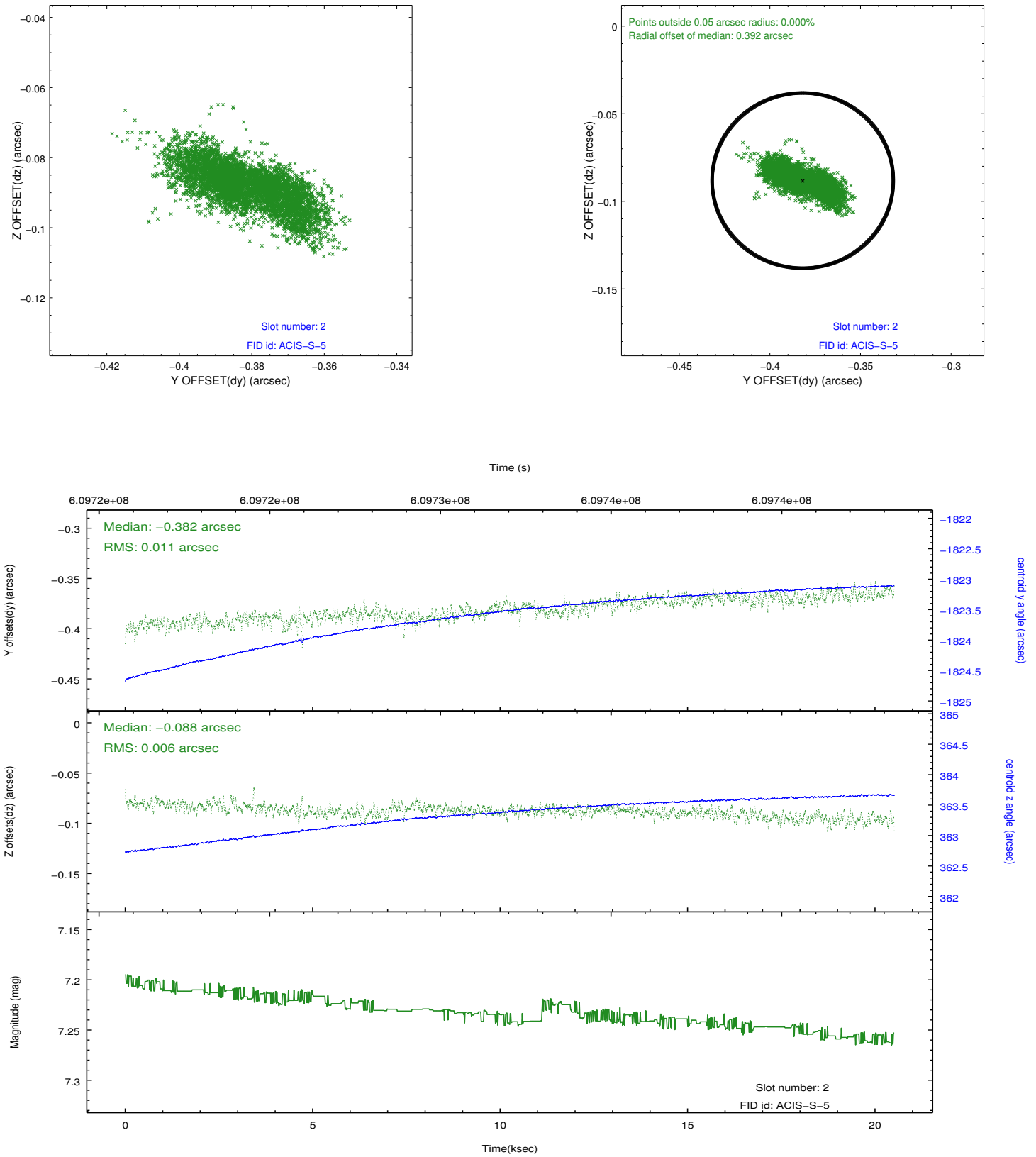
2.5.1 Slot 0



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)	2017.04.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.050800154328

A.2 Comments

Window preference met.