

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21141 - L2 Version 1
Chandra X-Ray Center

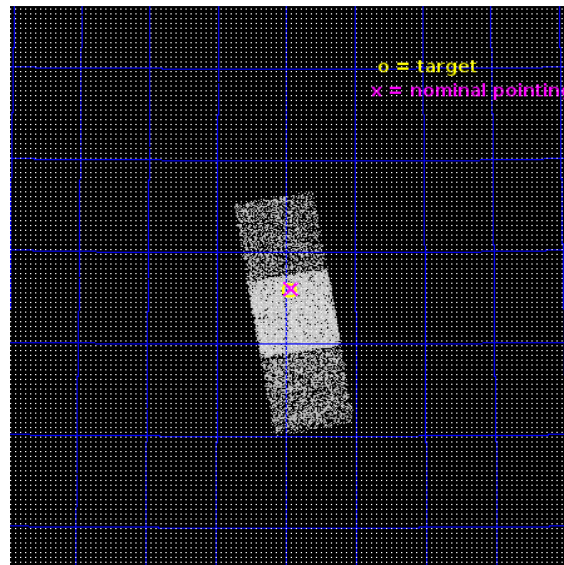
L2 Processing Date : Dec 25 2018

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

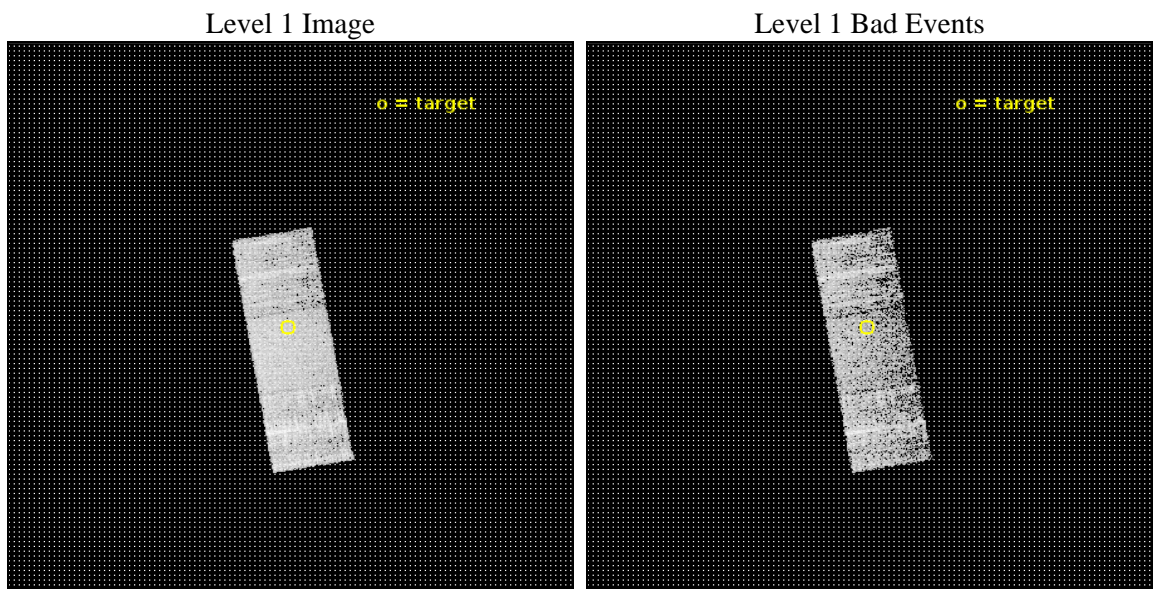
seq_num	703681	Sequence number
obs_id	21141	Observation id
title	A Chandra view of Eddington-limited accretion in DOGs	Proposal tit
observer	Dr. Gordon Garmire	Principal investigator
object	J1210+6105	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.737083	Observer's specified target RA [deg]
dec_targ	61.097639	Observer's specified target Dec [deg]
ra_nom	182.73048706346	Nominal RA [deg]
dec_nom	61.100602830178	Nominal Dec [deg]
roll_nom	80.162234469914	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3109.3000240326	Sum of GTIs [s]
livetime	3068.6747301852	Livetime [s]
ontime6	3109.3000240326	Sum of GTIs [s]
ontime7	3109.3000240326	Sum of GTIs [s]
ontime8	3109.3000240326	Sum of GTIs [s]
l2events	18120	Number of level 2 events



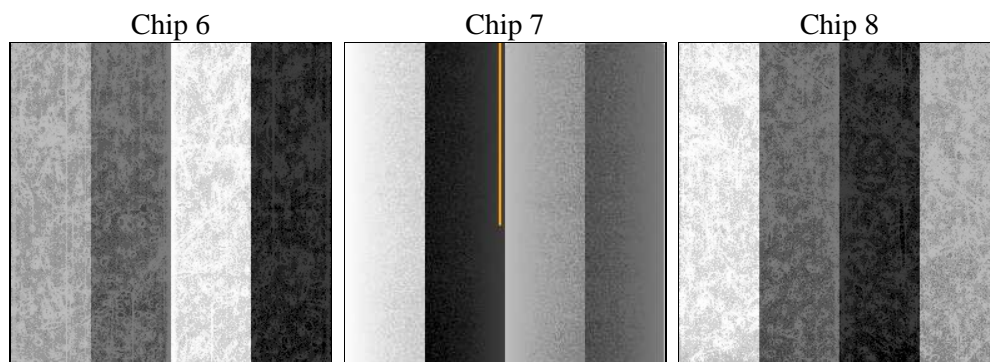
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	3109.3000240326	Sum of GTIs [s]
caldbver	4.8.2	 	ontime6	3109.3000240326	Sum of GTIs [s]
date	2018-12-25T06:25:13	Date and time of file creation	ontime7	3109.3000240326	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3109.3000240326	Sum of GTIs [s]
			l1events	86438	Number of level 1 events

2.1.4 Events

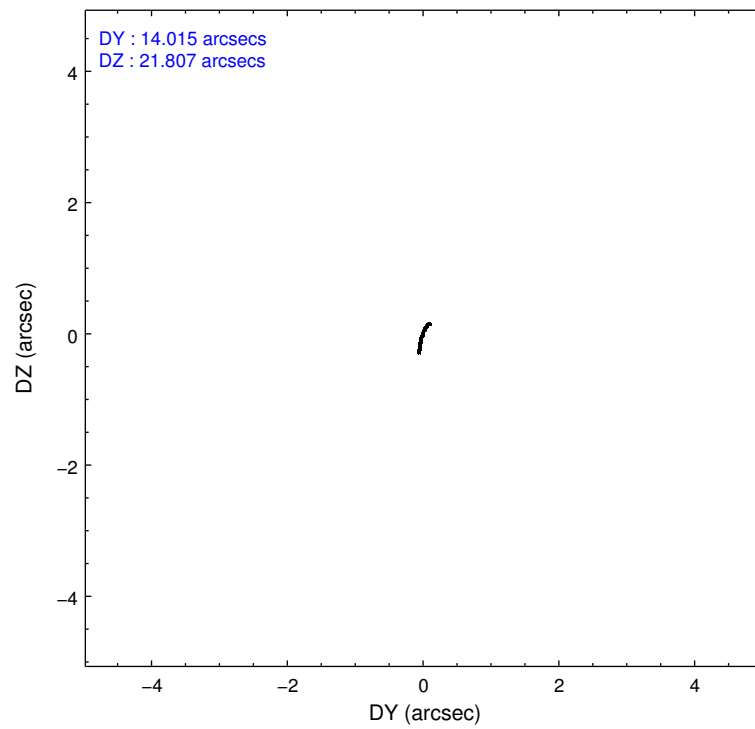
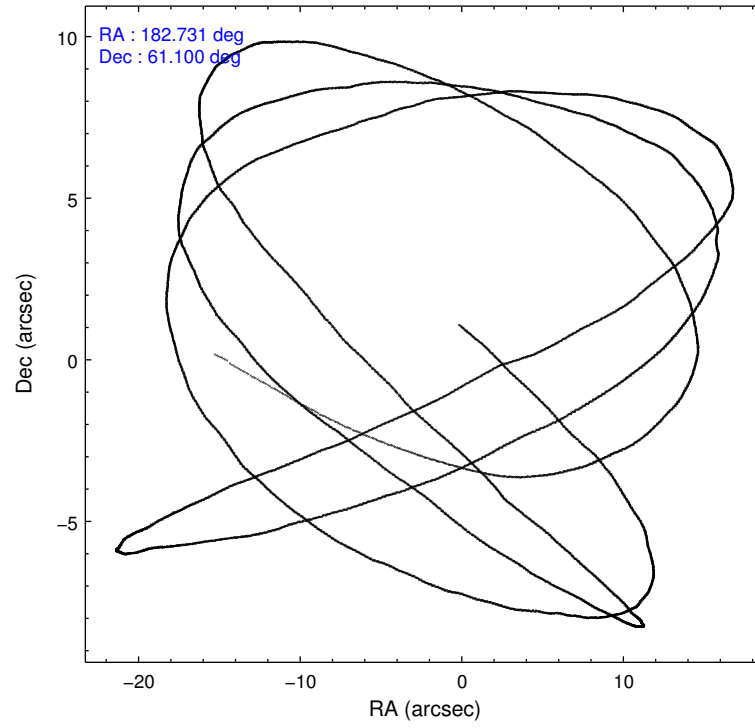
	ccd 6	ccd 7	ccd 8
level 1 events	23871	30341	32226
rejected events	21225	17105	22792
rejected %	88%	56%	70%

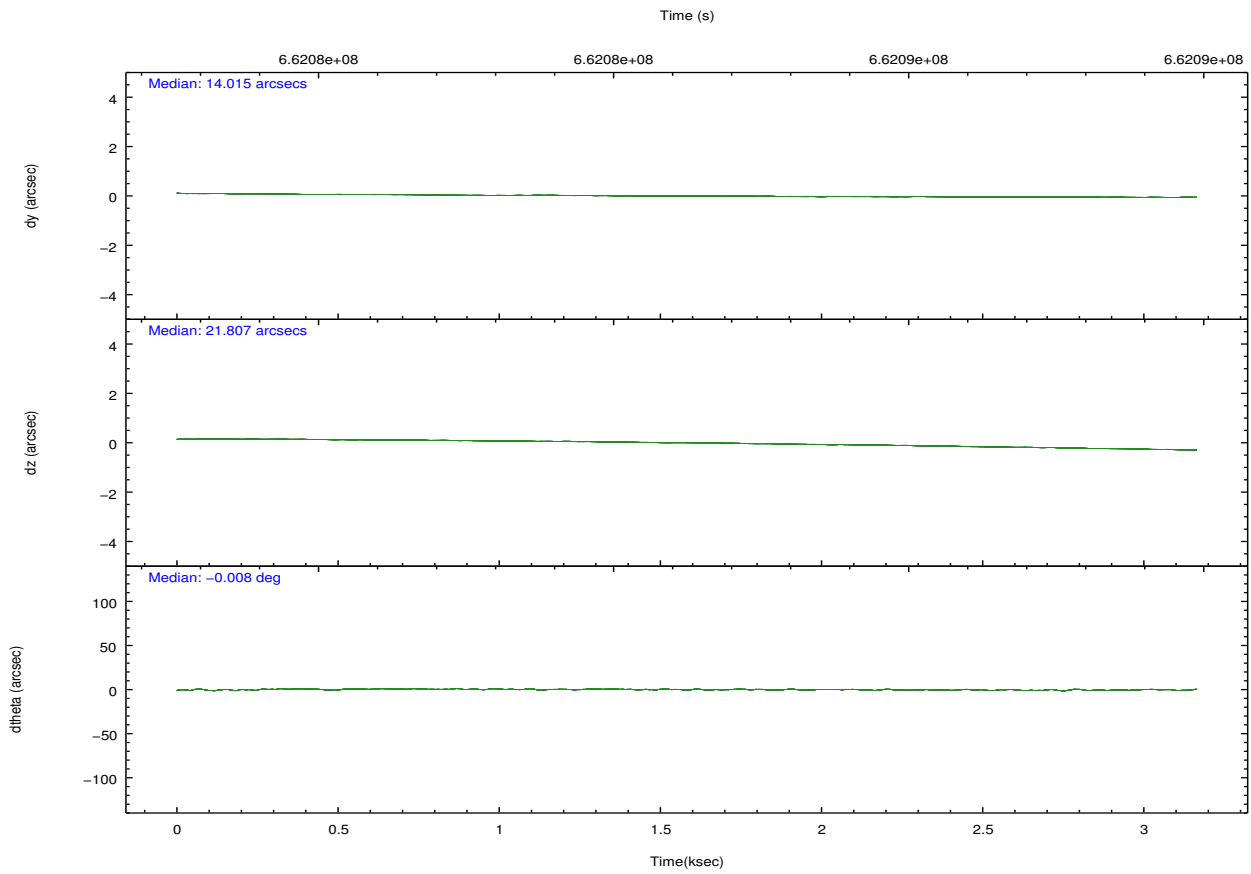
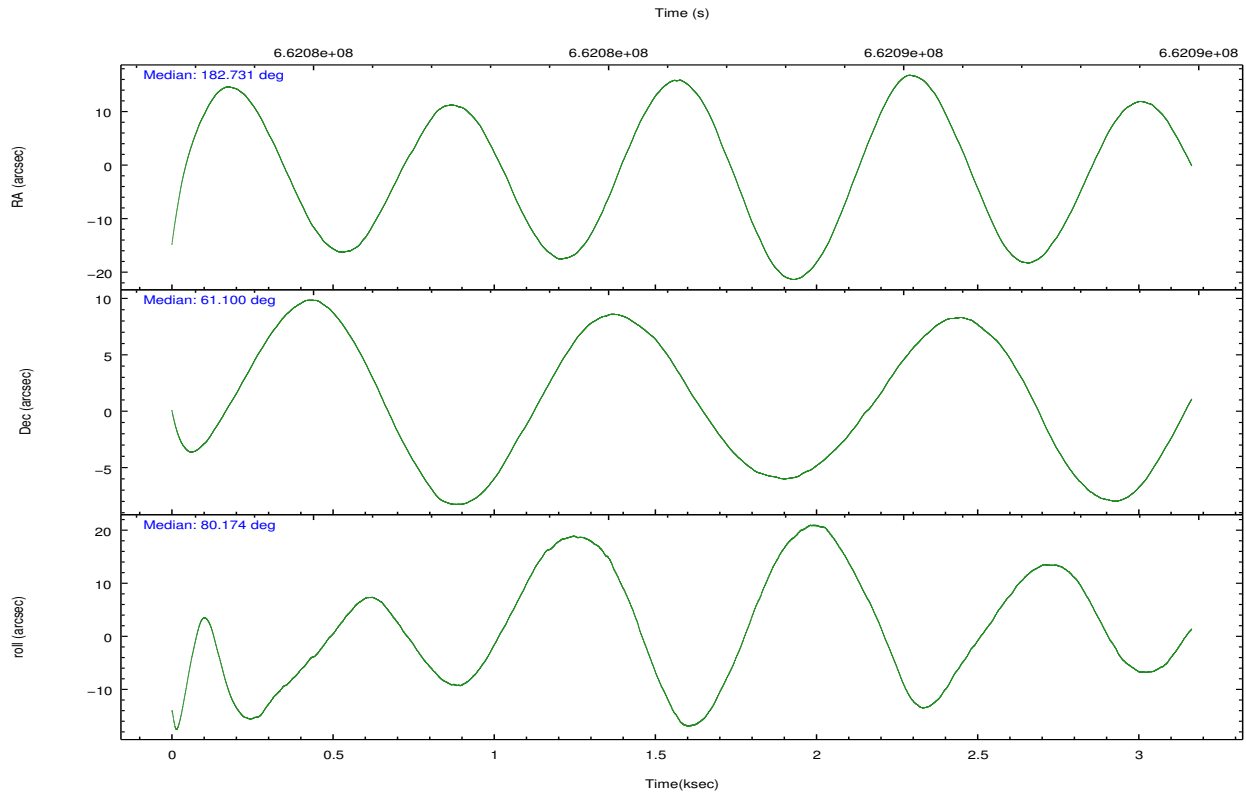
	ccd 6	ccd 7	ccd 8
grade 0 events	887	1120	2535
	3%	3%	7%
grade 1 events	10	41	24
	0%	0%	0%
grade 2 events	623	2798	2350
	2%	9%	7%
grade 3 events	244	1075	978
	1%	3%	3%
grade 4 events	244	1029	912
	1%	3%	2%
grade 5 events	1068	2957	1712
	4%	9%	5%
grade 6 events	656	7240	2676
	2%	23%	8%
grade 7 events	20139	14081	21039
	84%	46%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	182.750535	182.7304870634607	Subarray requested	NONE	NONE
[deg] Pointing Dec	61.075021	61.10060283017776	Alternating exposures requested	N	N
[deg] Pointing Roll	79.988229	80.16223446991356	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	662083827.184000	662082804.0510401			
Observation start date	2018-12-25T00:09:18	2018-12-24T23:53:24			
[s] Observation end time (MET)	662086827.184000	662087559.02633			
Observation end date	2018-12-25T00:59:18	2018-12-25T01:12:39			
Read mode	TIMED	TIMED			

2.3 Aspect





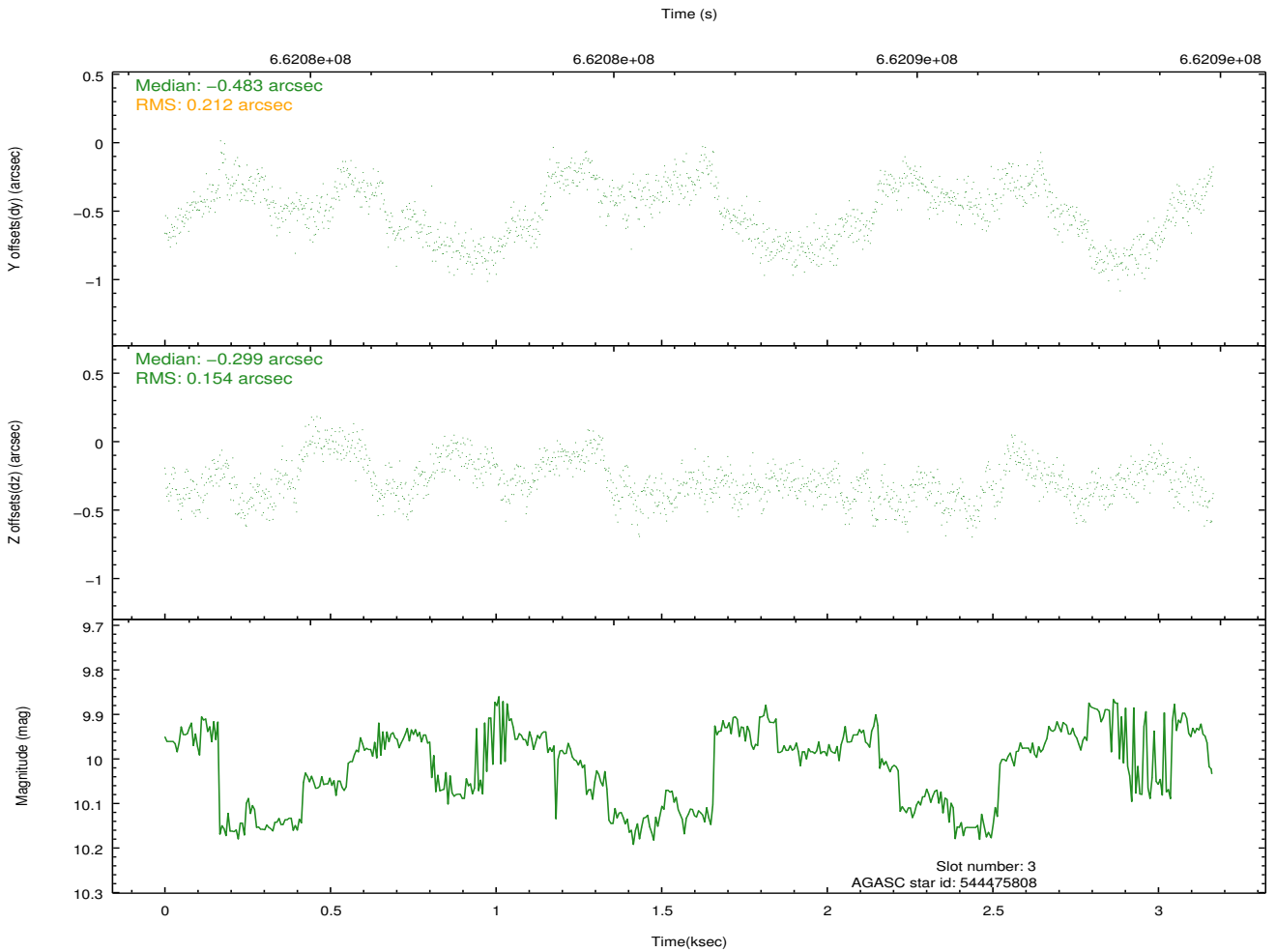
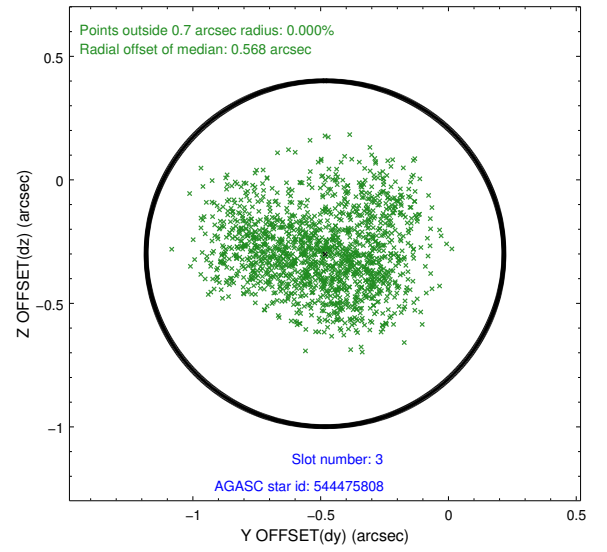
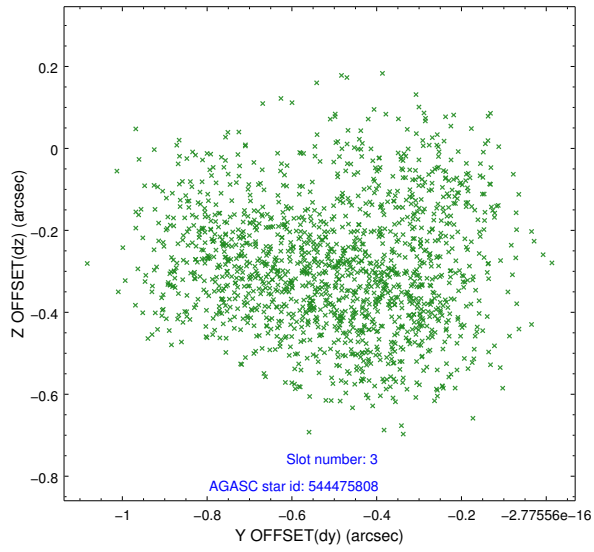
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.14	772	1.000	0.176	-0.096	0.010	0.020	0.000000	0.000000	929.33	-1738
1	FID		ACIS-S-5	7.15	772	1.000	-0.477	0.053	0.007	0.011	0.000000	0.000000	-1819.29	156
2	FID		ACIS-S-6	7.29	772	1.000	0.280	0.054	0.010	0.018	0.000000	0.000000	392.69	802
3	GUIDE	used	544475808	9.99	1540	1.000	-0.483	-0.299	0.288	0.434	182.712064	61.667576	2090.41	436
4	GUIDE	used	544608544	8.86	1544	1.000	0.298	0.134	0.184	0.277	183.261627	60.409880	-2194.13	-1307
5	GUIDE	used	544612144	7.89	1543	1.000	0.369	0.175	0.161	0.231	183.528550	60.449646	-1968.77	-1748
6	GUIDE	used	544612592	9.97	1526	1.000	-0.719	-0.203	0.294	0.473	183.182605	61.555983	1835.84	-429
7	GUIDE	used	544612920	9.74	1531	1.000	0.527	0.168	0.237	0.351	183.581105	60.375892	-2209.54	-1890

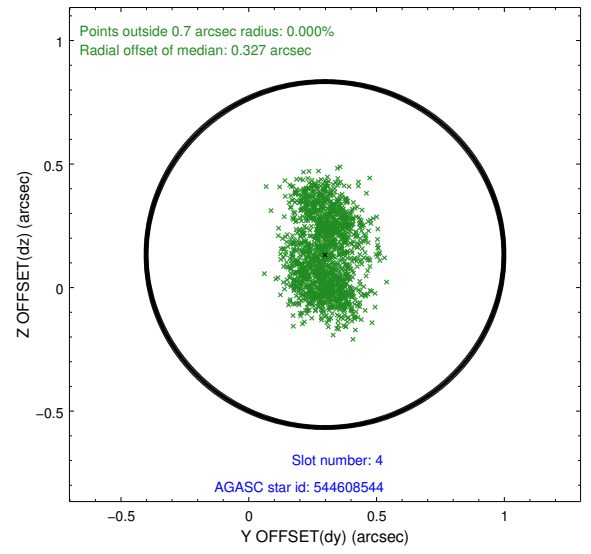
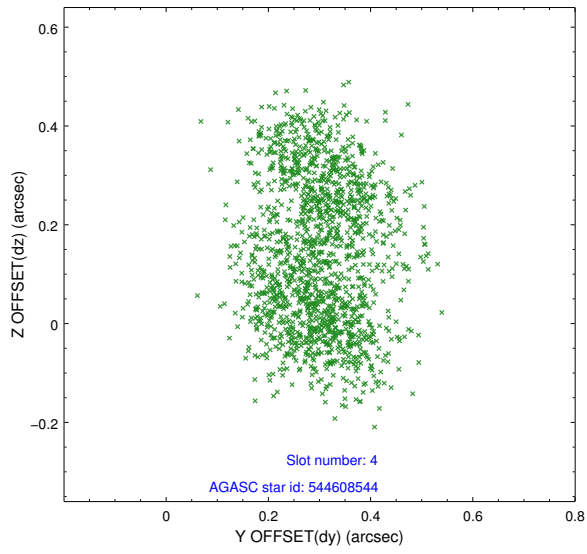
∞

2.4 Star Slots

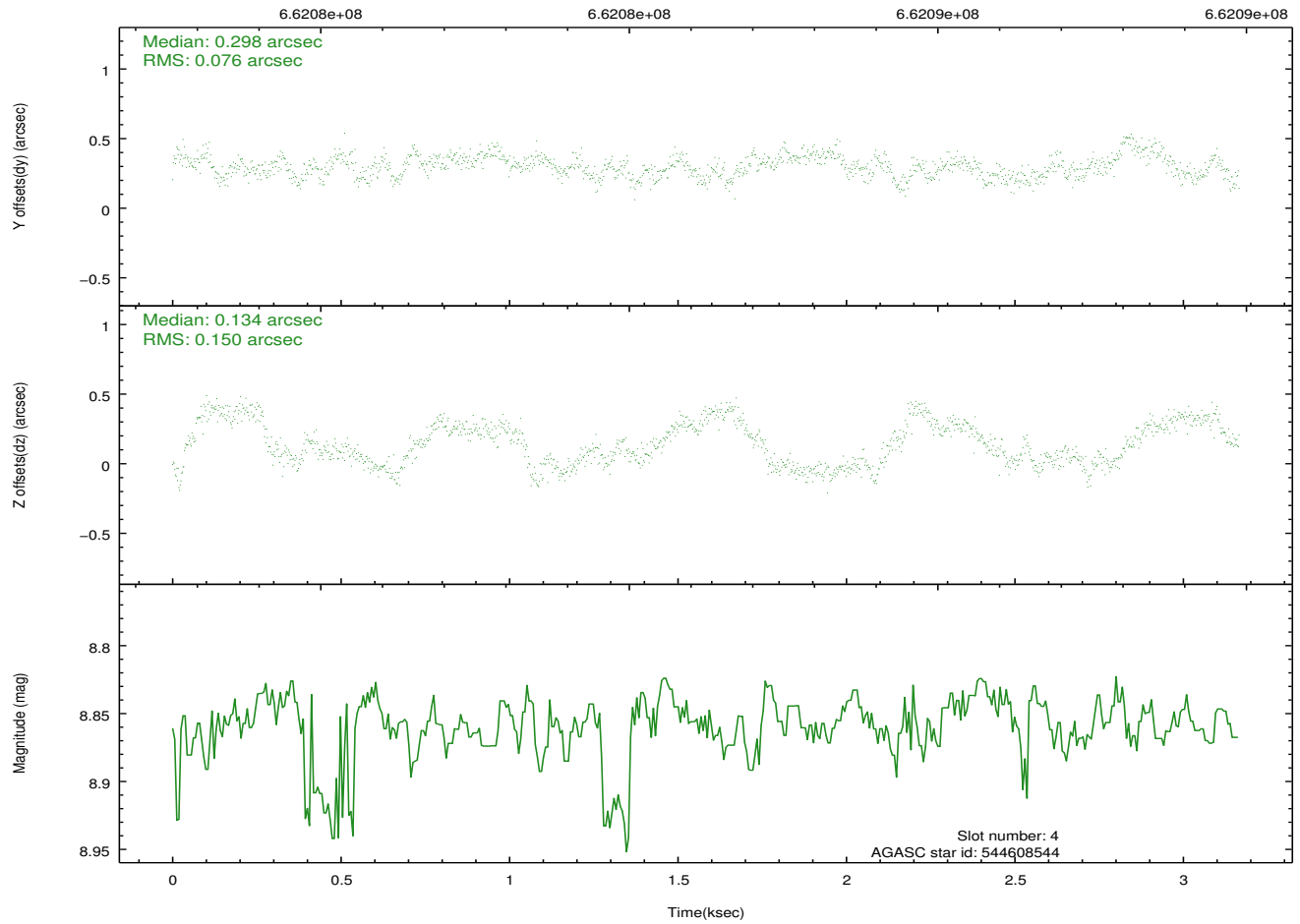
2.4.1 Slot 3



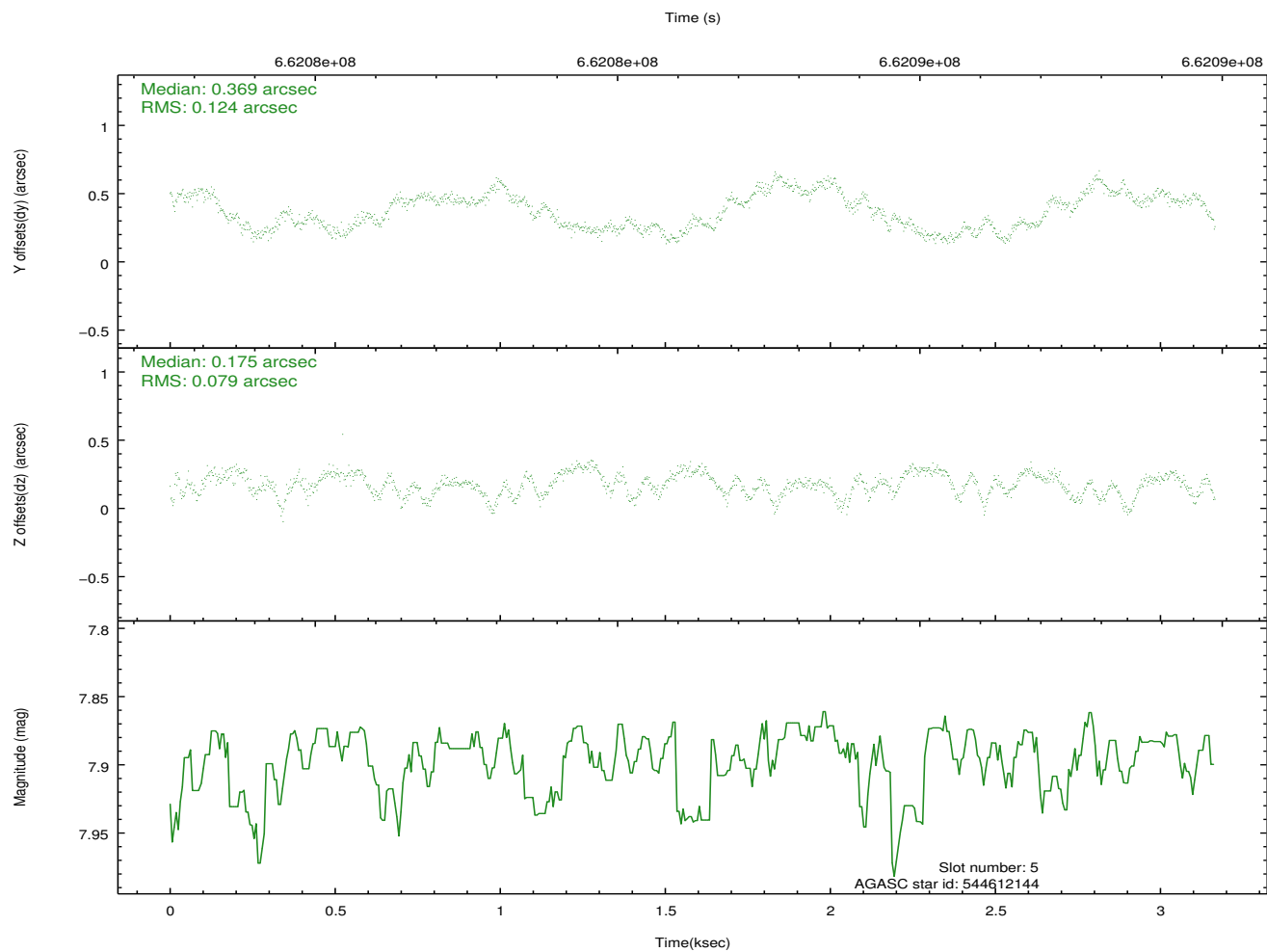
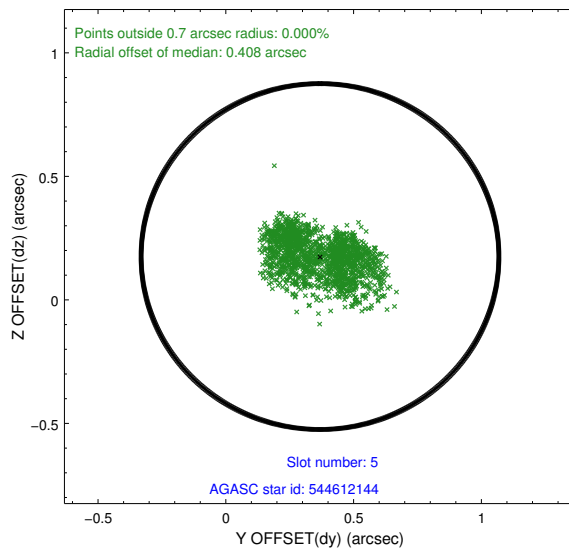
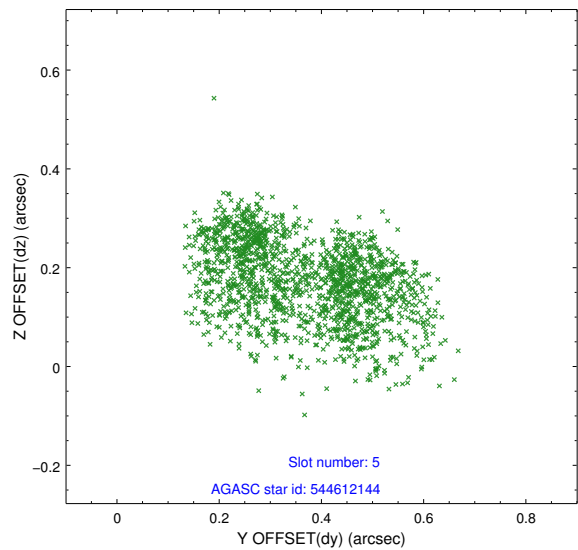
2.4.2 Slot 4



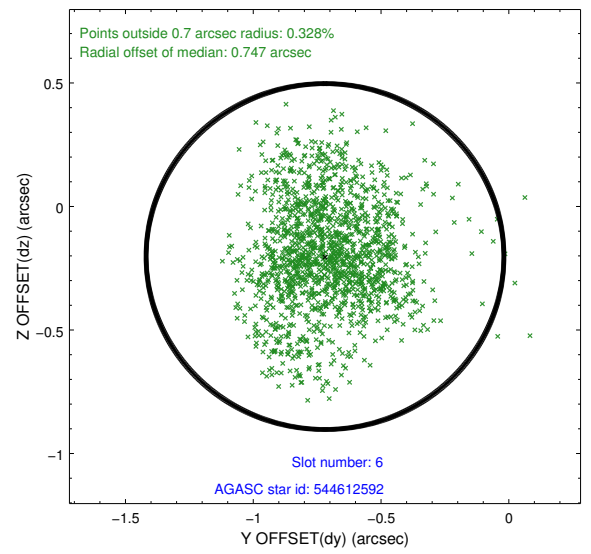
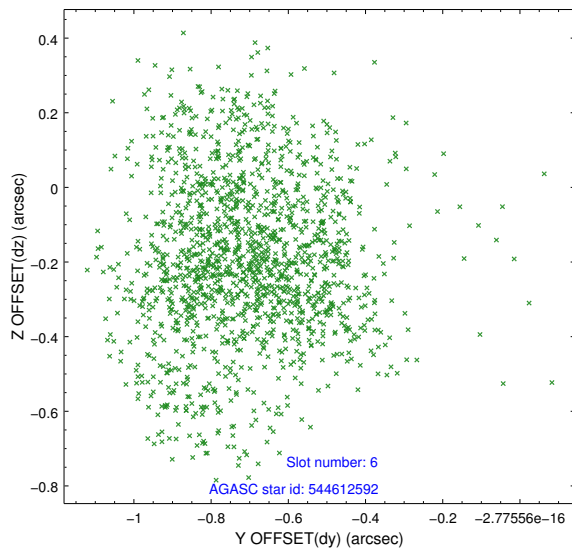
Time (s)



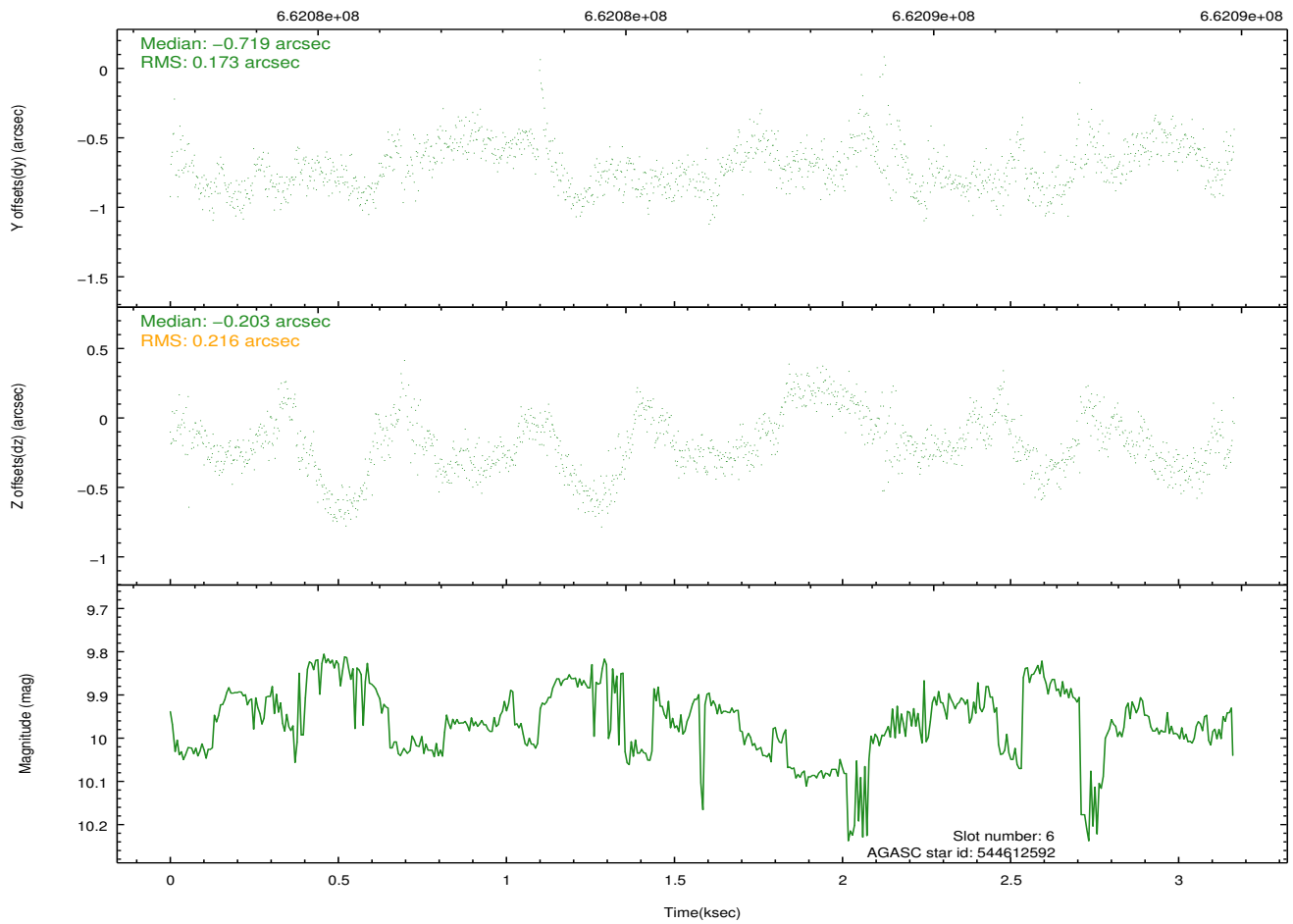
2.4.3 Slot 5



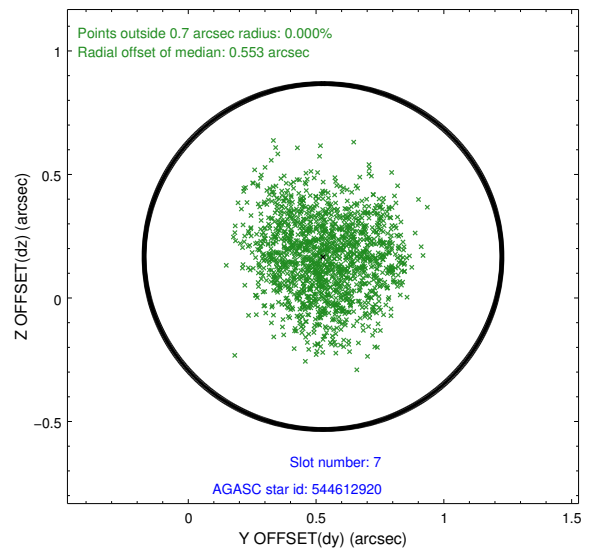
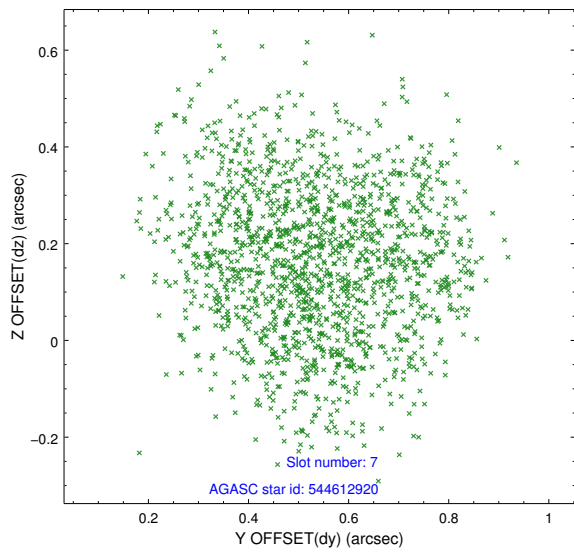
2.4.4 Slot 6



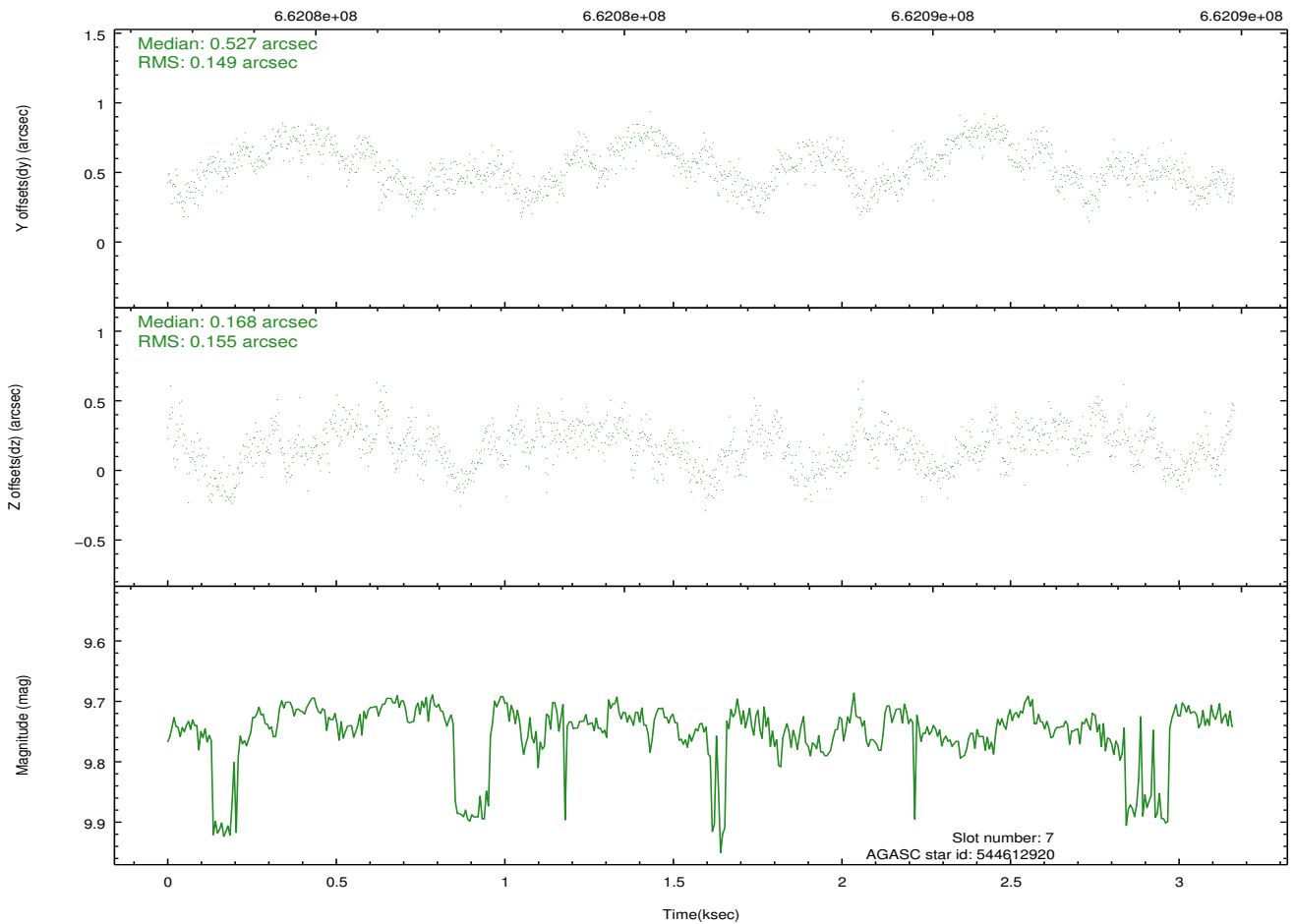
Time (s)



2.4.5 Slot 7

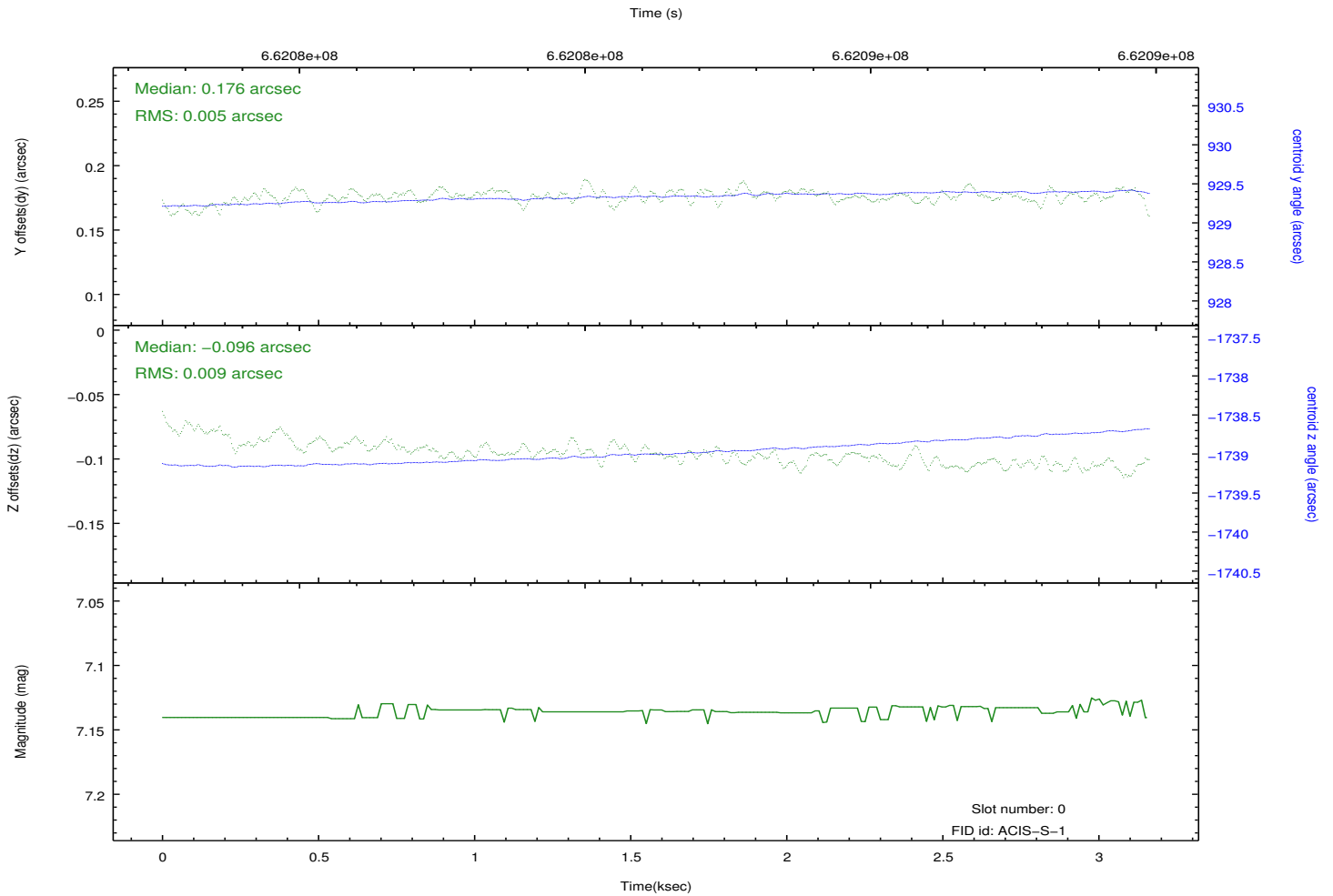
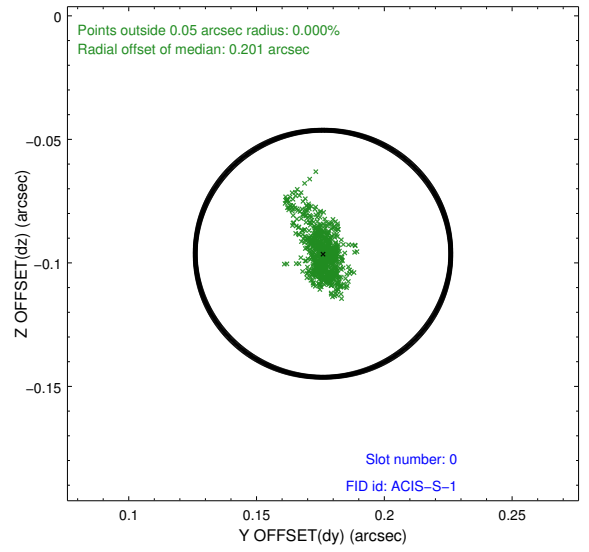
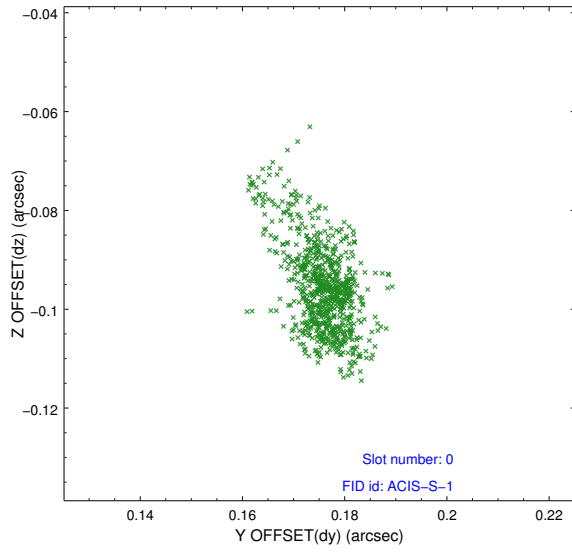


Time (s)

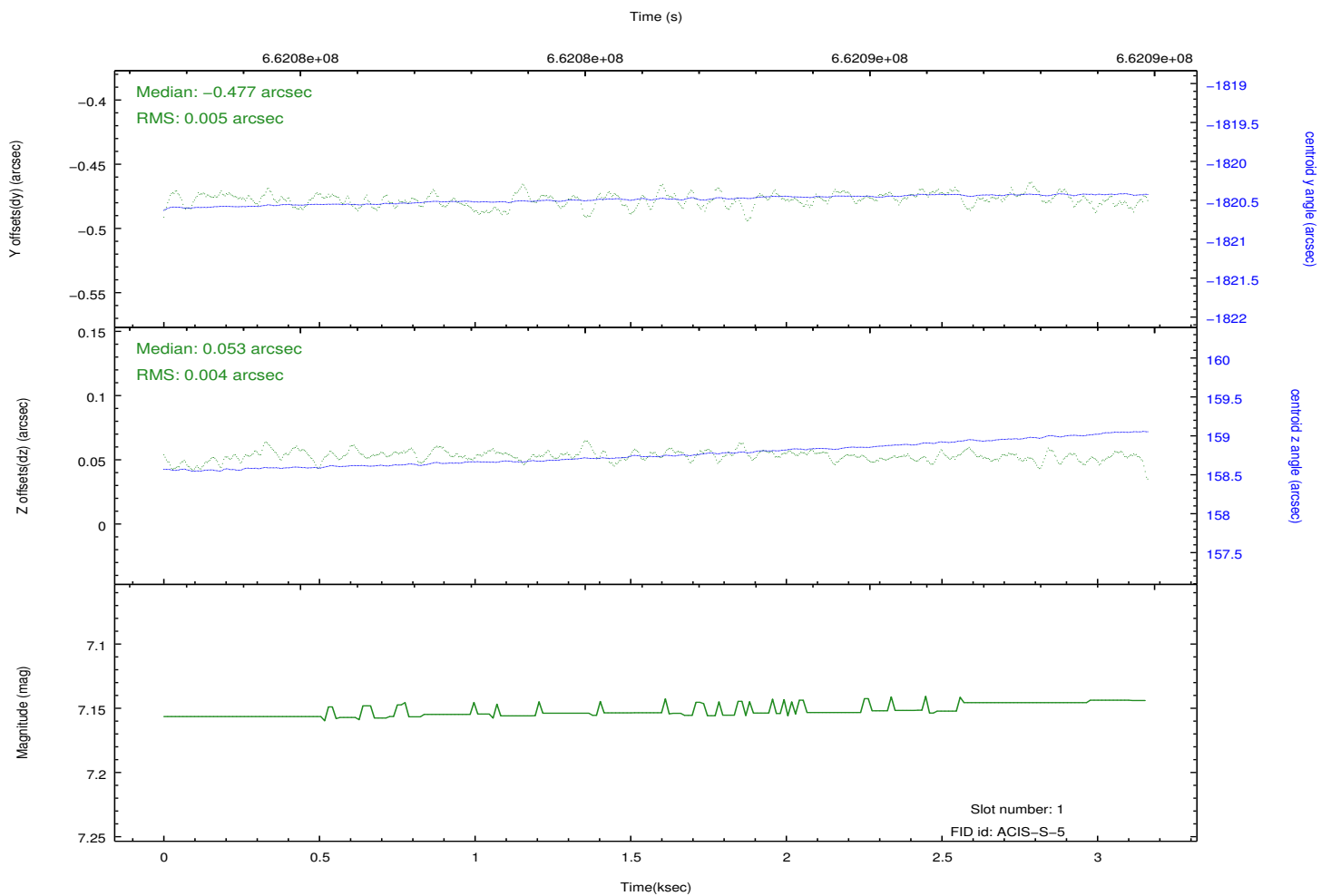
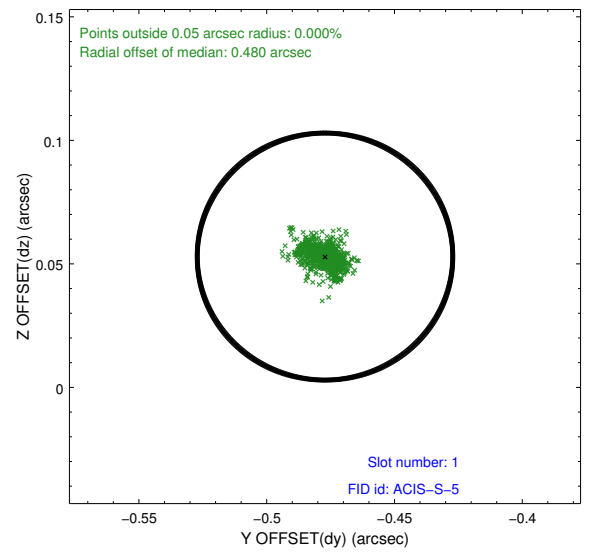
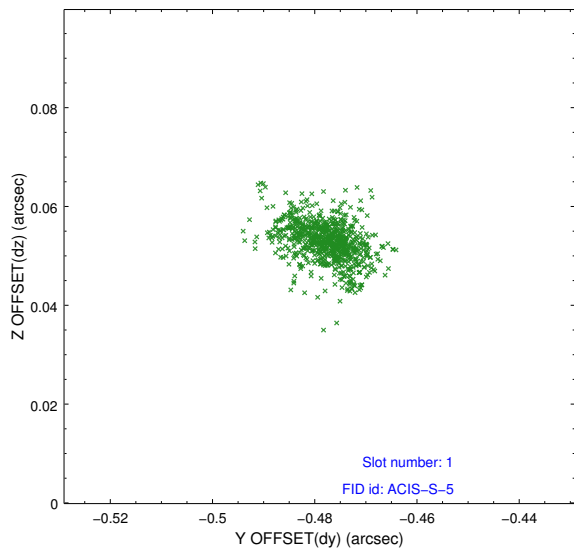


2.5 FID Slots

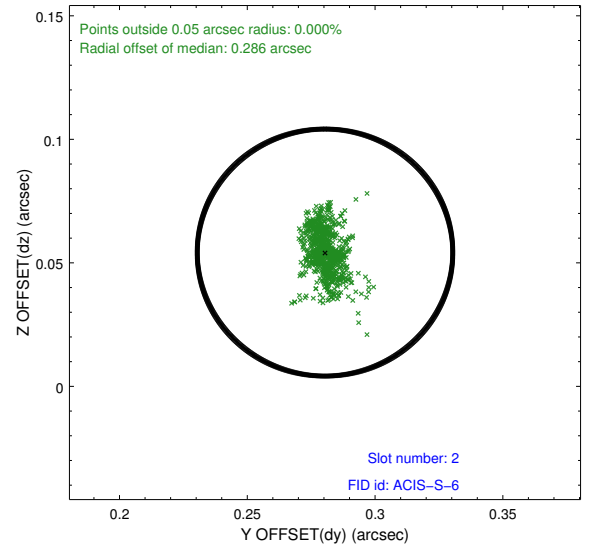
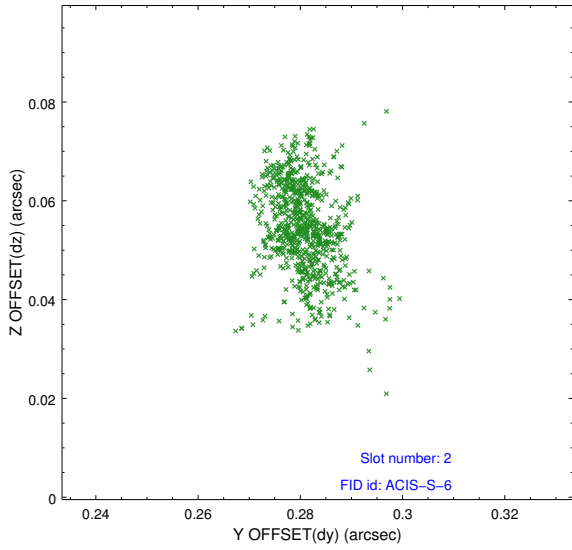
2.5.1 Slot 0



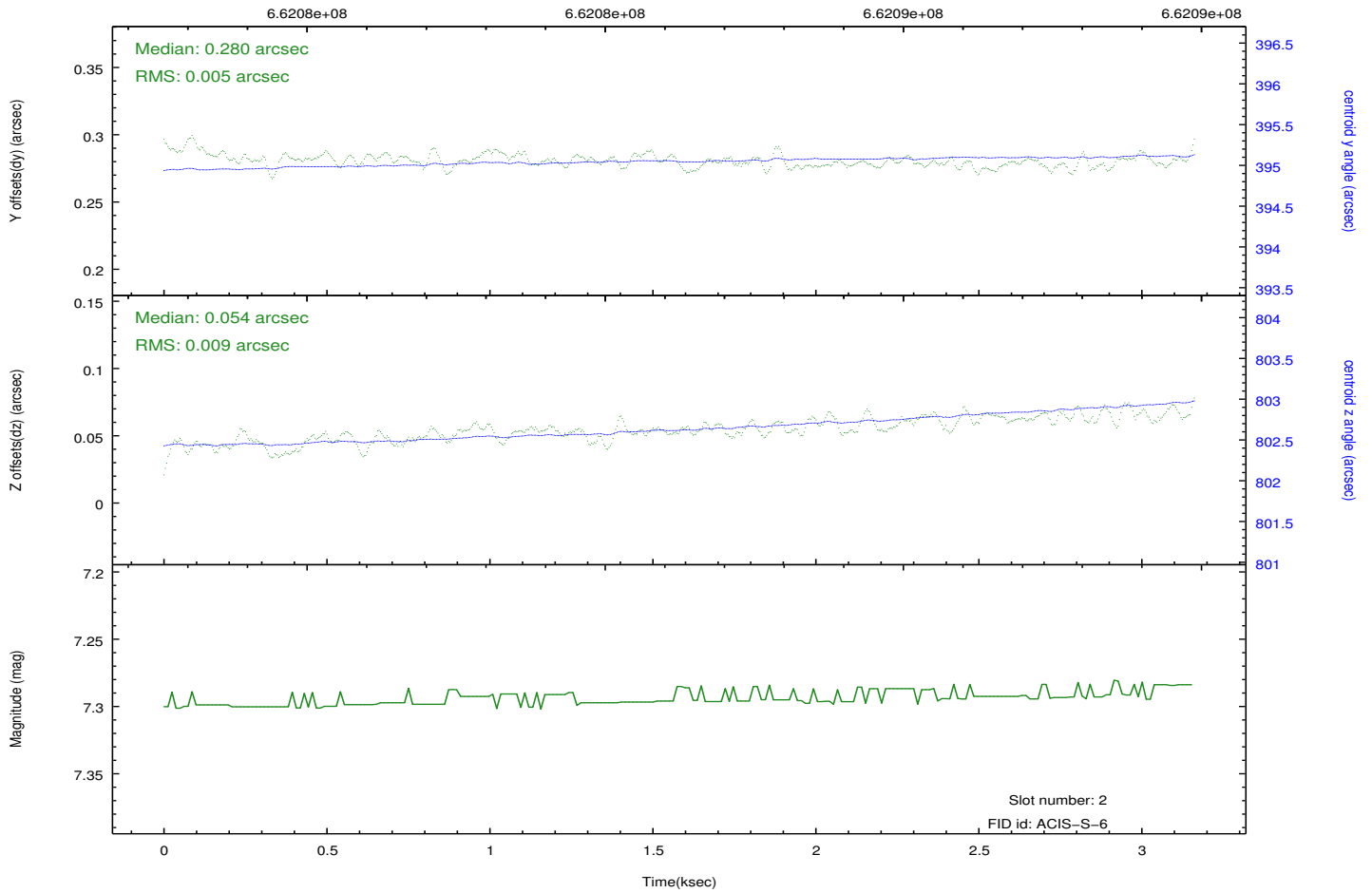
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2018.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1093000240326

A.2 Comments