

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19880 - L2 Version 1
Chandra X-Ray Center

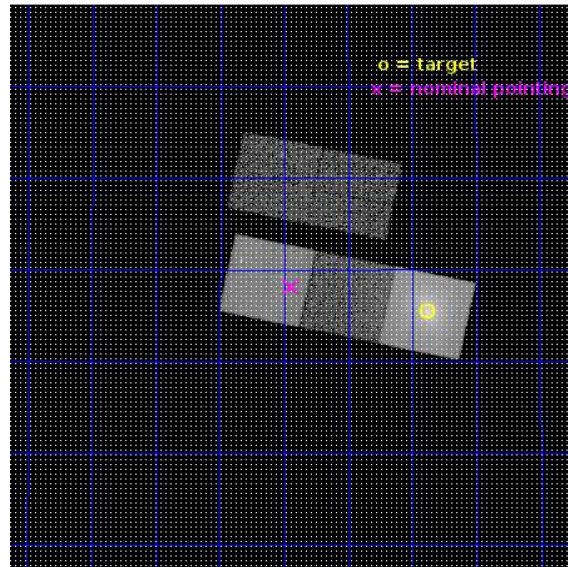
L2 Processing Date : Apr 28 2017

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

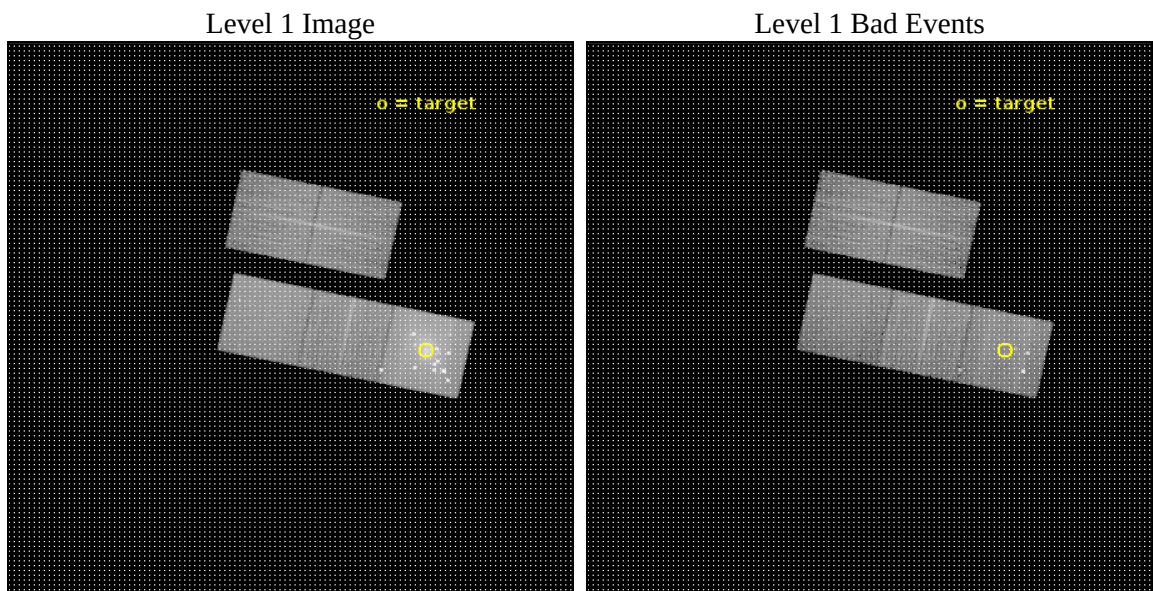
seq_num	890145	Sequence number
obs_id	19880	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.48550988415	Nominal RA [deg]
dec_nom	26.636209604866	Nominal Dec [deg]
roll_nom	191.9195815604	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14770.086807847	Sum of GTIs [s]
livetime	14577.104750123	Livetime [s]
ontime2	14763.681476951	Sum of GTIs [s]
ontime3	14766.863607407	Sum of GTIs [s]
ontime5	14770.086807847	Sum of GTIs [s]
ontime6	14770.045747519	Sum of GTIs [s]
ontime7	14770.127827525	Sum of GTIs [s]
l2events	233045	Number of level 2 events



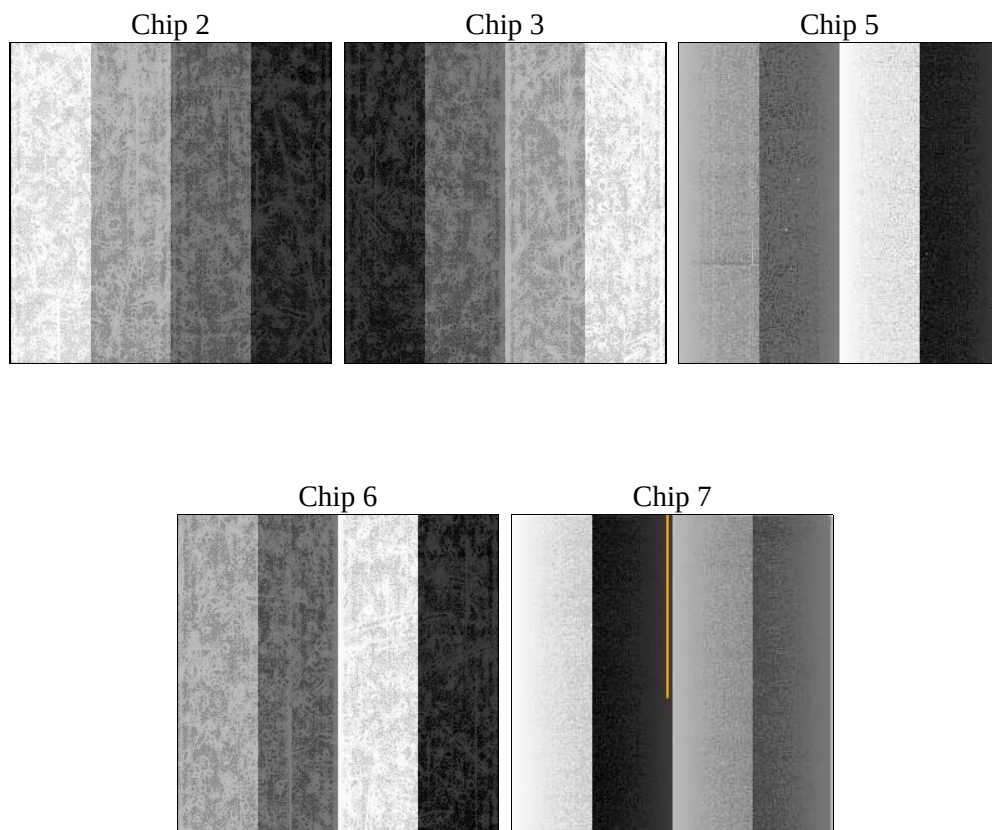
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	14770.086807847	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	14763.681476951	Sum of GTIs [s]
date	2017-04-28T15:16:16	Date and time of file creation	ontime3	14766.863607407	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	14770.086807847	Sum of GTIs [s]
			ontime6	14770.045747519	Sum of GTIs [s]
			ontime7	14770.127827525	Sum of GTIs [s]
			l1events	743525	Number of level 1 events

2.1.4 Events

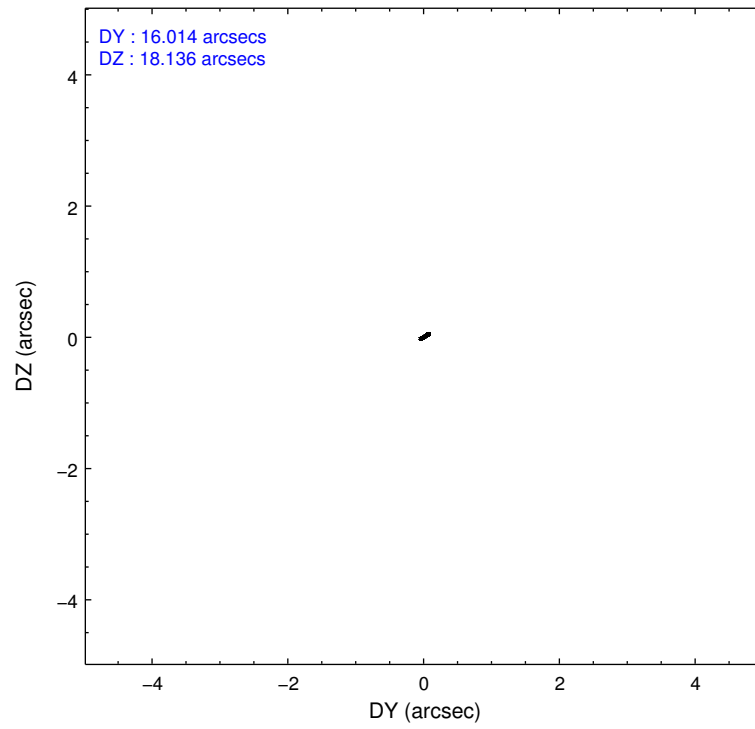
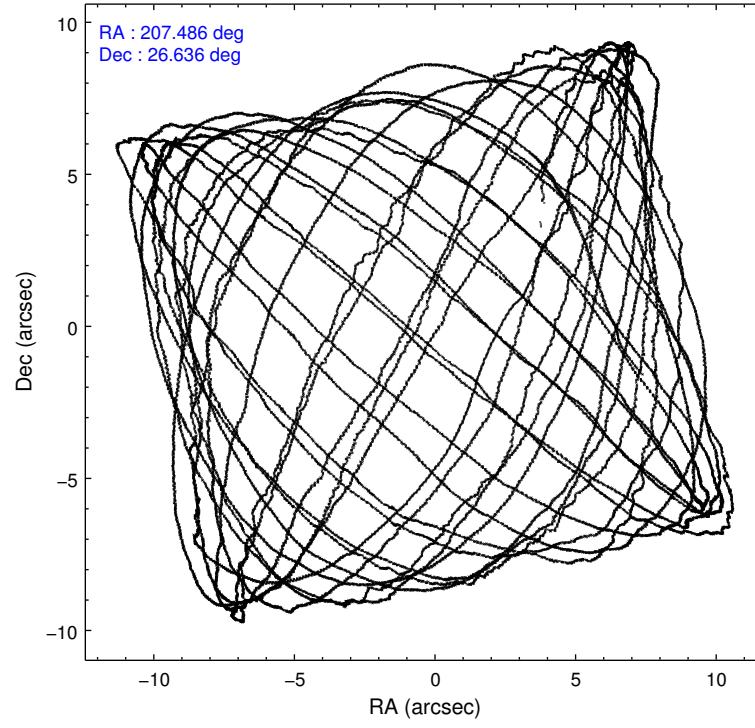
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	104006	101680	291998	111638	134203
rejected events	93545	91444	98294	97153	76731
rejected %	89%	89%	33%	87%	57%

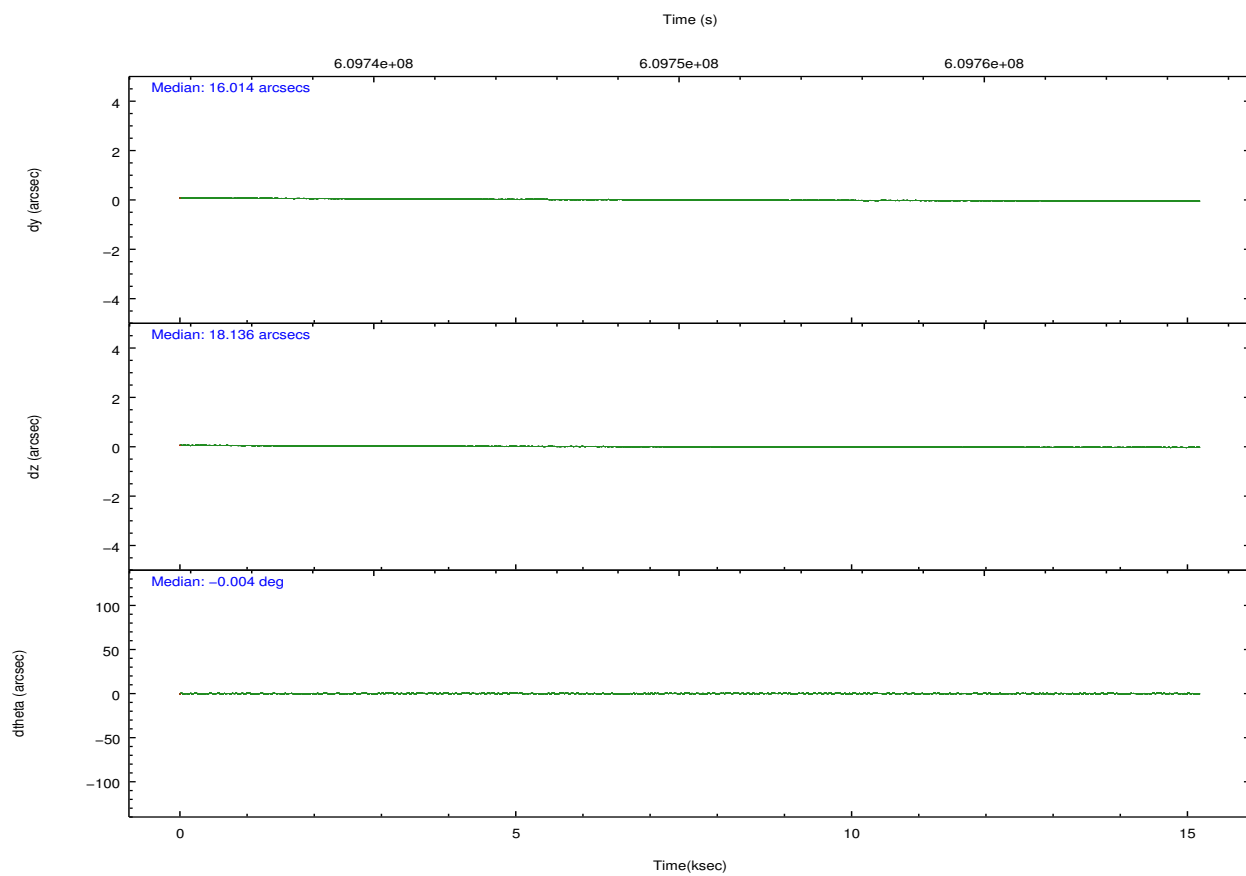
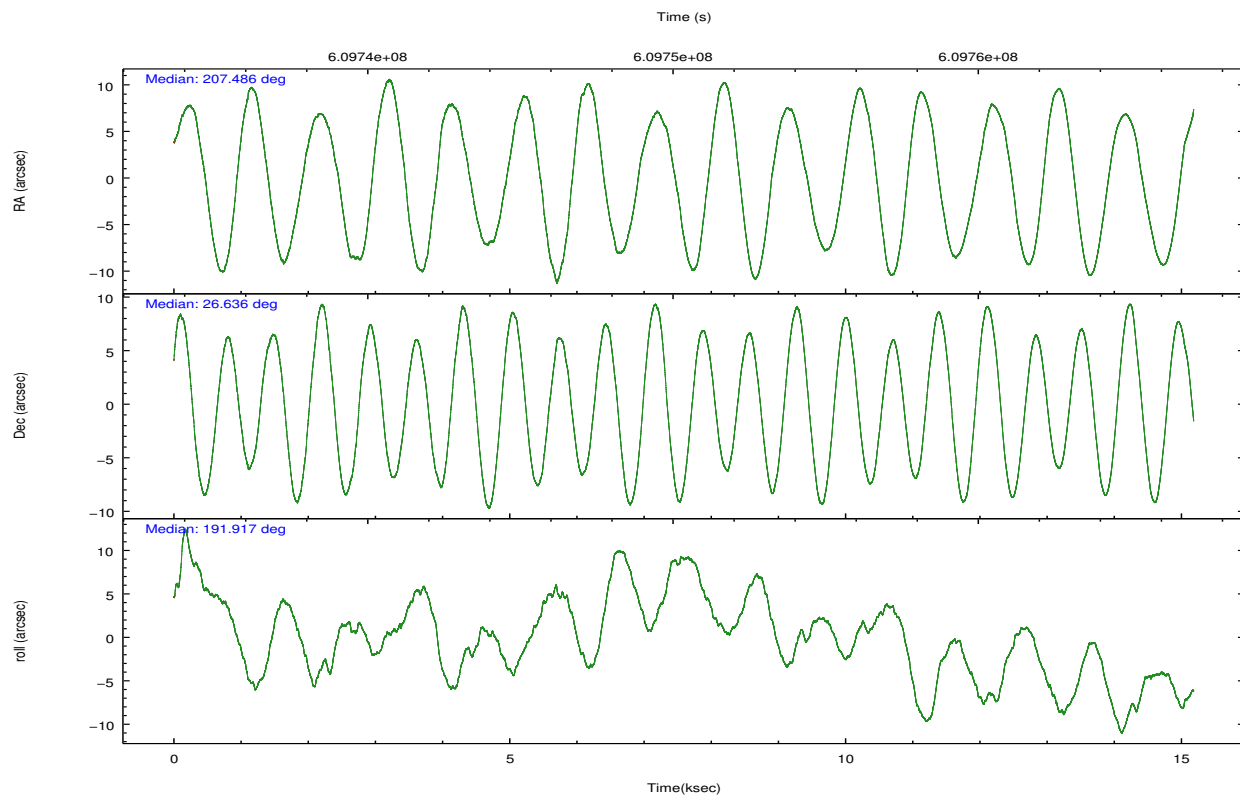
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	3894	3656	55706	5642	4972
	3%	3%	19%	5%	3%
grade 1 events	57	46	452	50	174
	0%	0%	0%	0%	0%
grade 2 events	2413	2178	60673	3476	12611
	2%	2%	20%	3%	9%
grade 3 events	1003	1125	8009	1097	4124
	0%	1%	2%	0%	3%
grade 4 events	1062	1093	8138	1099	3932
	1%	1%	2%	0%	2%
grade 5 events	3612	4517	13460	4369	12000
	3%	4%	4%	3%	8%
grade 6 events	2094	2192	61261	3178	31854
	2%	2%	20%	2%	23%
grade 7 events	89871	86873	84299	92727	64536
	86%	85%	28%	83%	48%

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	207.508078	207.4855098841493	CCD I2 on	Y	Y
[deg] Pointing Dec	26.654790	26.63620960486566	CCD I3 on	O1	Y
[deg] Pointing Roll	191.752832	191.9195815604048	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	-190.132523	-190.1425803651734	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.01005778216563158	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	609742788.184000	609742412.55055	On-chip summing requested	N	N
Observation start date	2017-04-28T04:58:39	2017-04-28T04:53:32	Subarray requested	NONE	NONE
[s] Observation end time (MET)	609757788.184000	609758611.65149	Alternating exposures requested	N	N
Observation end date	2017-04-28T09:08:39	2017-04-28T09:23:31	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



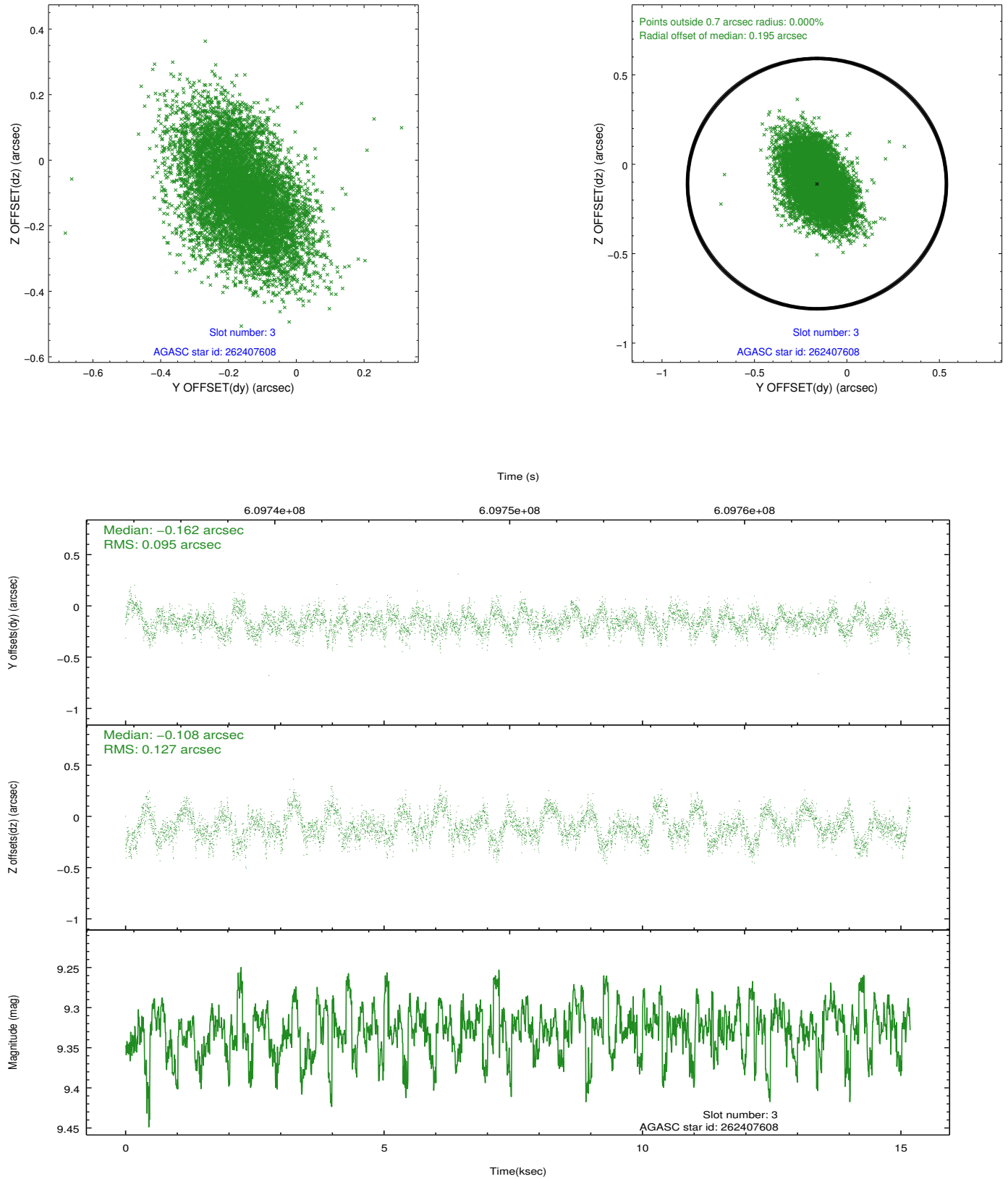


Slot Statistics

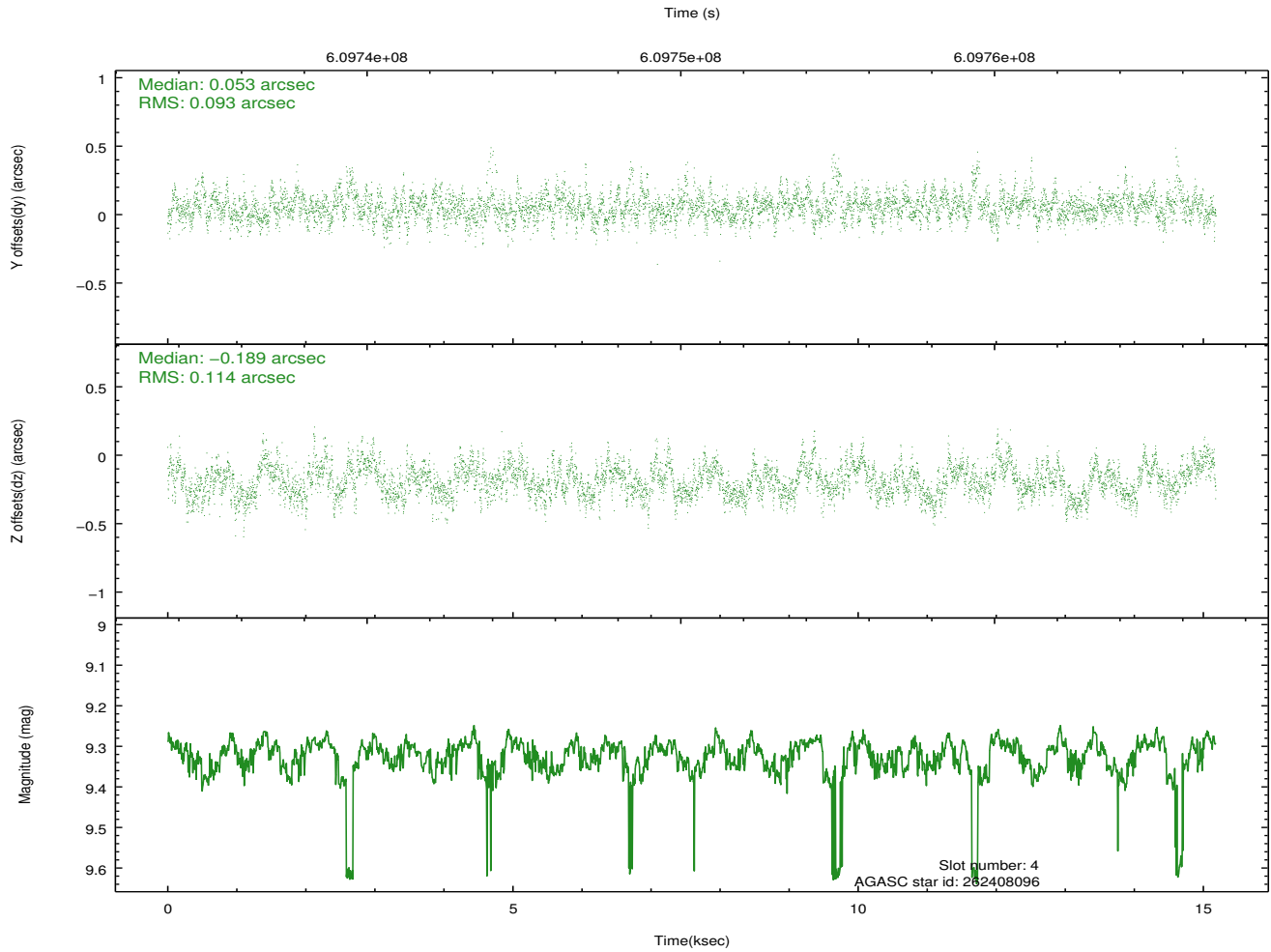
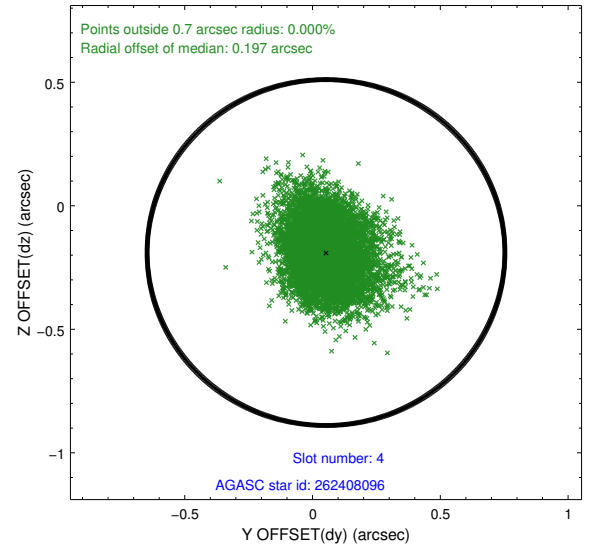
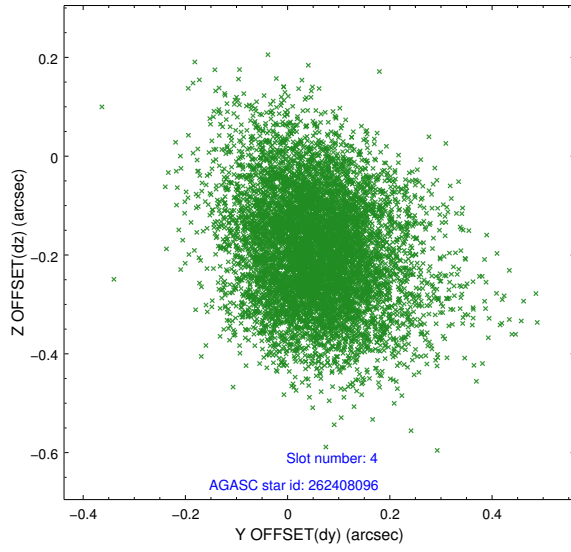
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	3704	-0.212	-0.163	0.007	0.012	0.000000	0.000000	-769.22	-1739.72
1	FID		ACIS-S-4	7.26	3704	0.521	0.145	0.006	0.010	0.000000	0.000000	2144.64	168.77
2	FID		ACIS-S-5	7.25	3704	-0.341	0.026	0.007	0.012	0.000000	0.000000	-1821.82	162.65
3	GUIDE	used	262407608	9.33	7394	-0.162	-0.108	0.169	0.277	207.378401	26.435507	569.97	687.75
4	GUIDE	used	262408096	9.32	7374	0.053	-0.189	0.154	0.259	207.011678	26.515421	1668.16	162.26
5	GUIDE	used	262408512	7.97	7405	0.080	0.314	0.088	0.149	207.800210	27.128796	-1263.44	-1480.64
6	GUIDE	used	262408936	9.62	7332	0.133	0.090	0.226	0.365	207.154731	26.726554	1059.46	-485.56
7	GUIDE	used	262414456	9.27	7395	-0.111	-0.108	0.164	0.266	208.043290	26.129682	-1309.11	2199.88

2.4 Star Slots

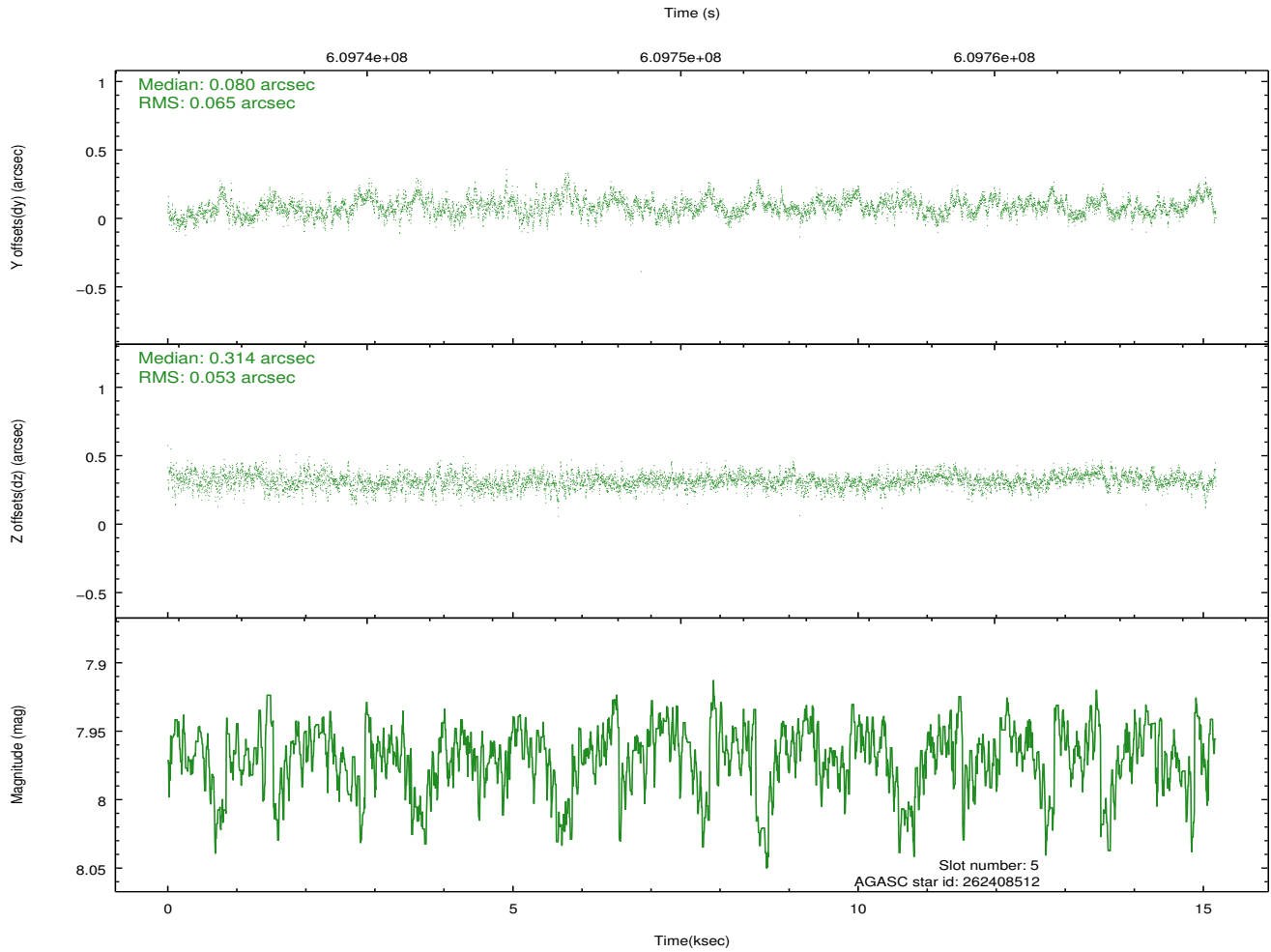
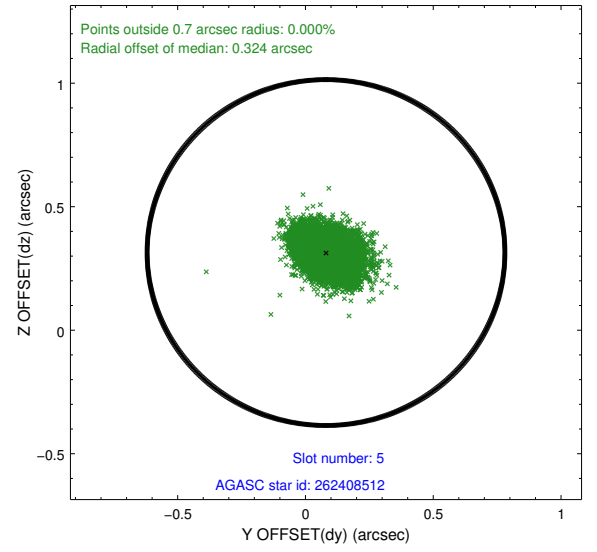
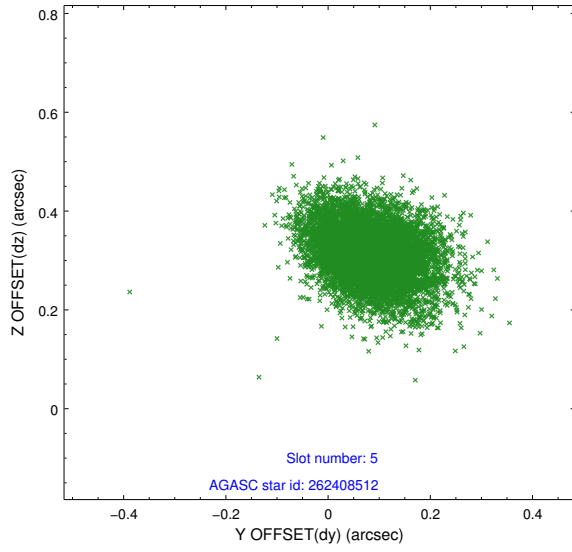
2.4.1 Slot 3



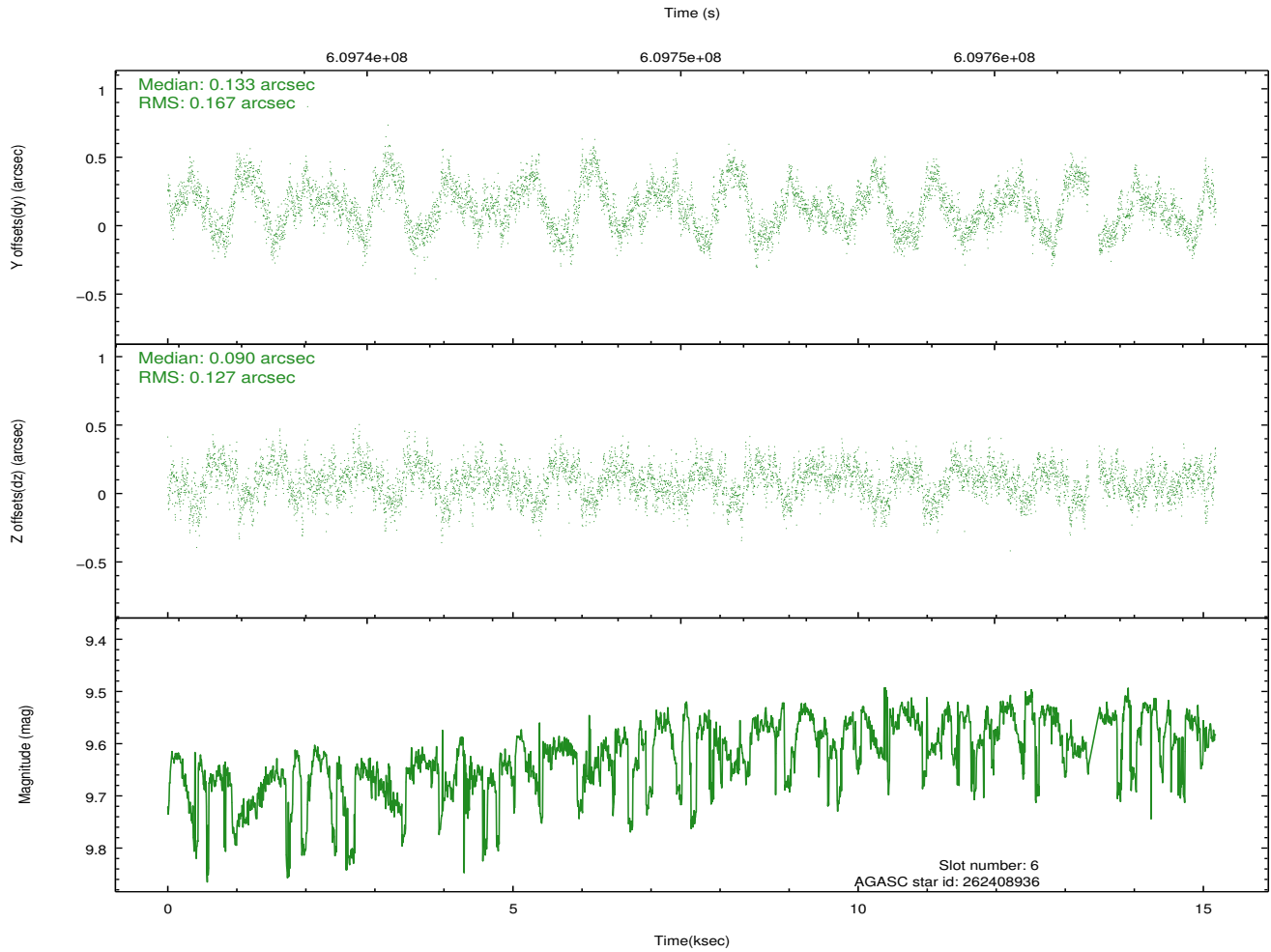
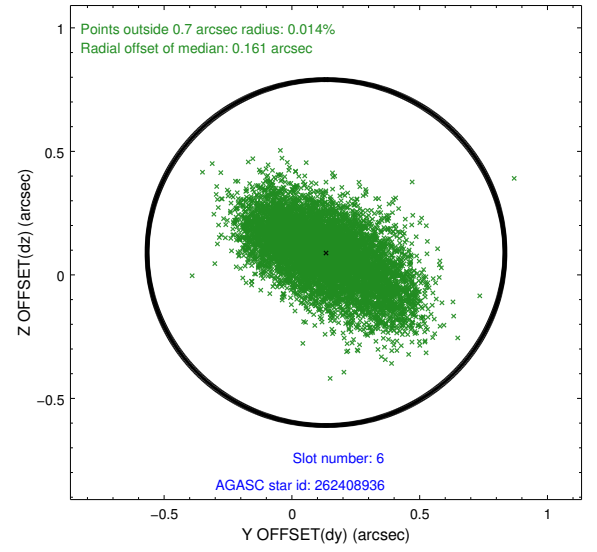
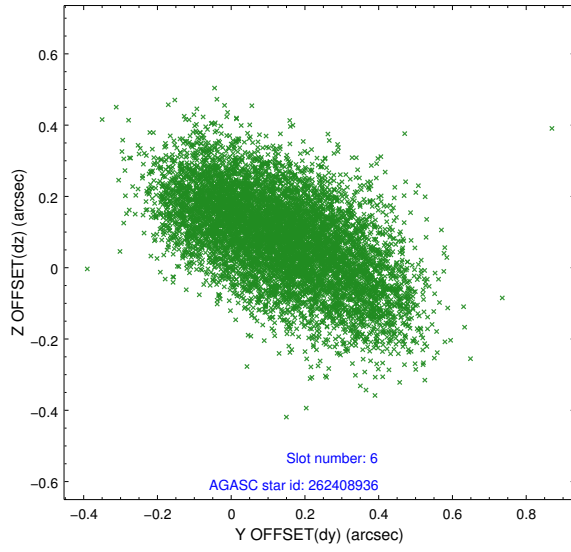
2.4.2 Slot 4



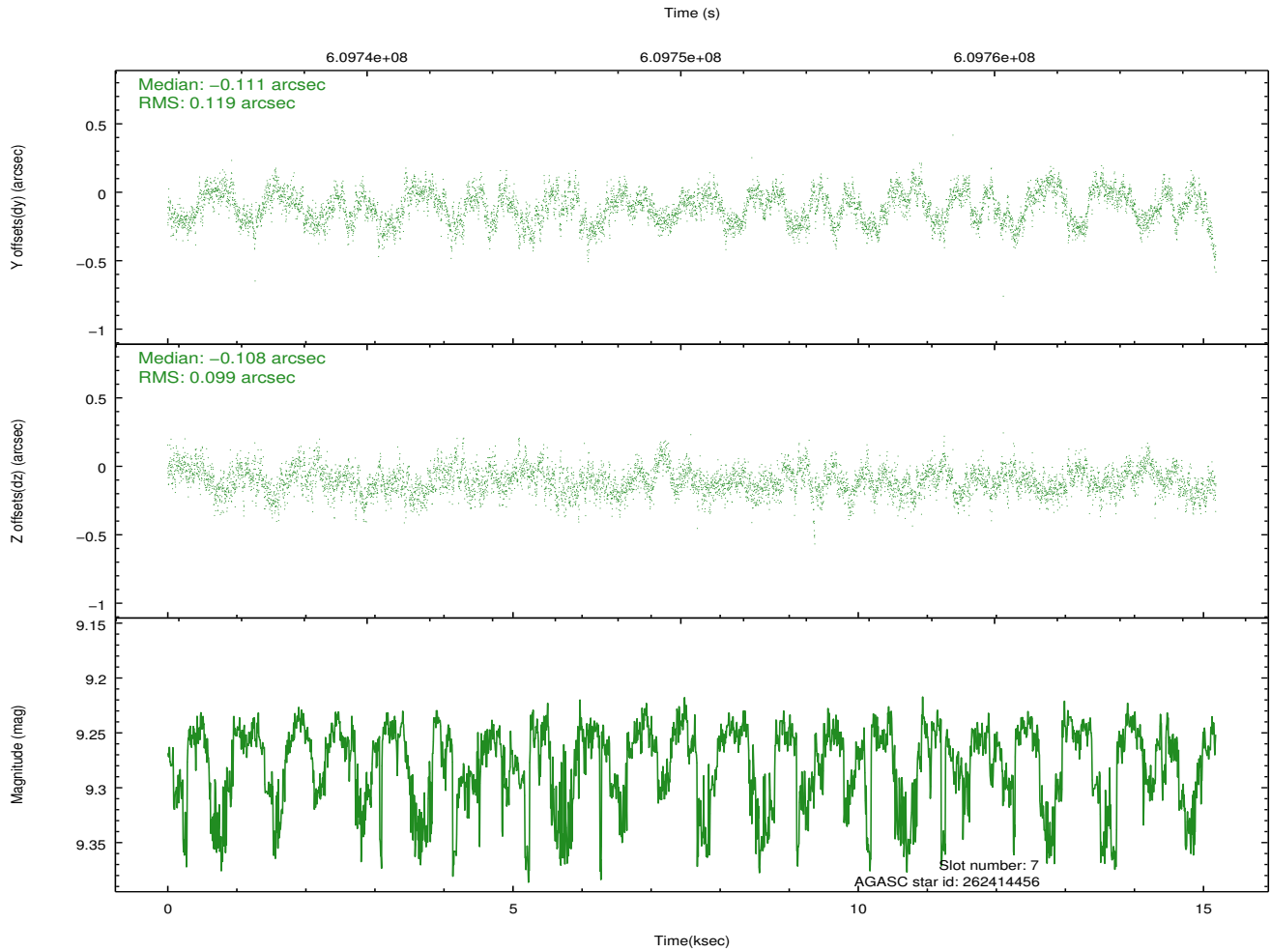
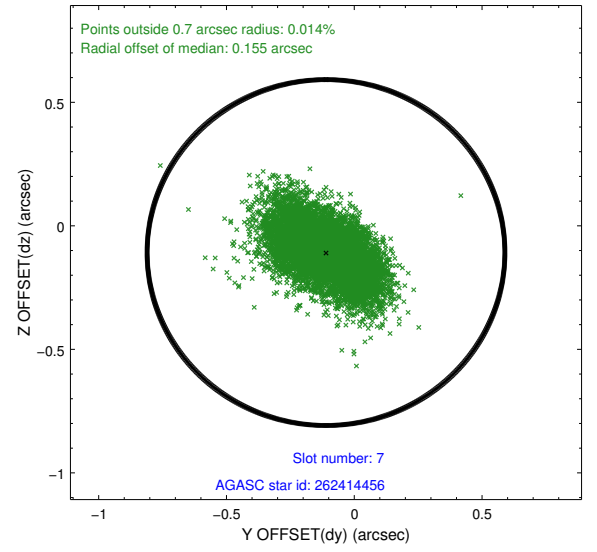
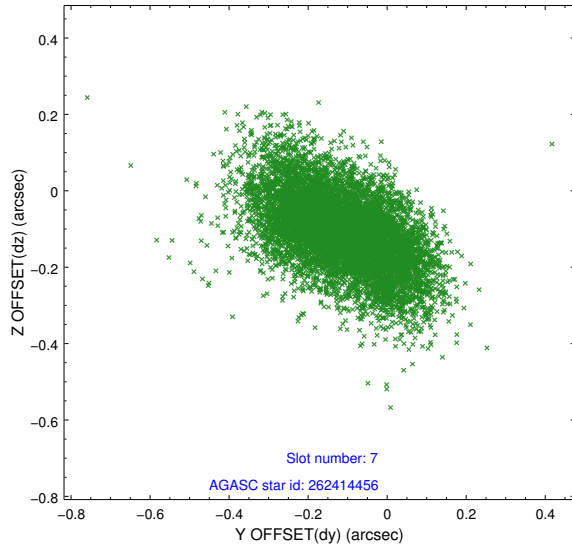
2.4.3 Slot 5



2.4.4 Slot 6

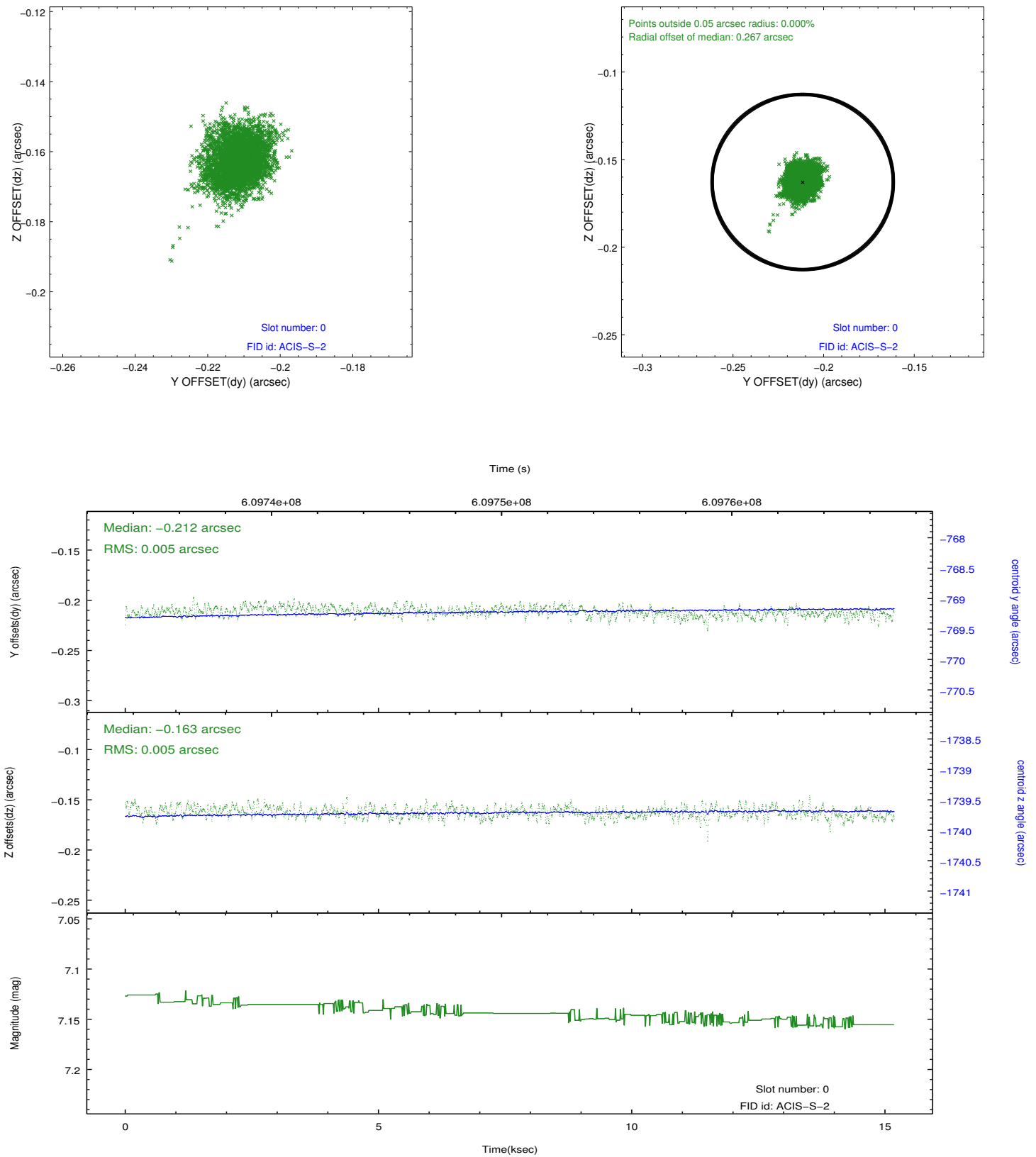


2.4.5 Slot 7

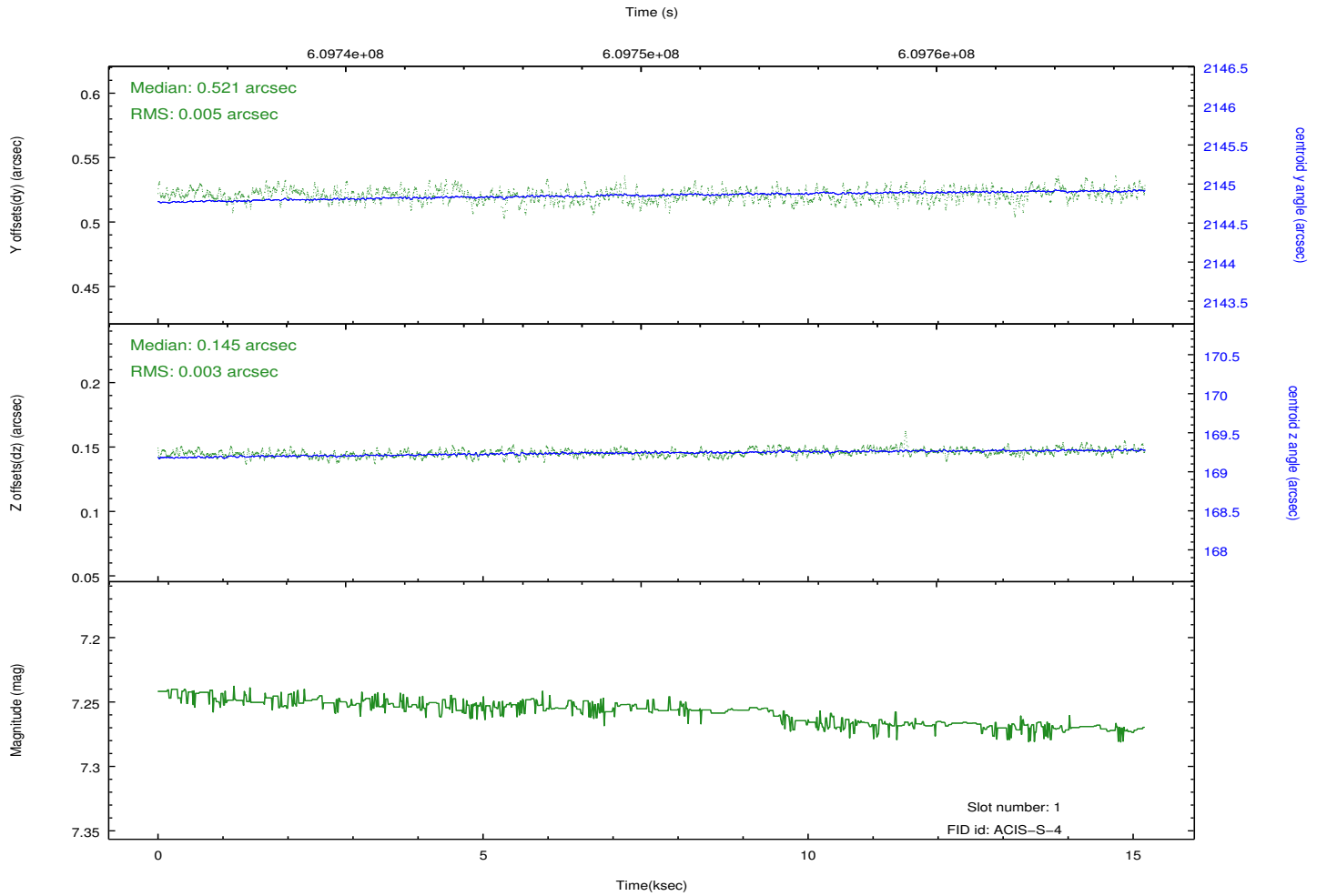
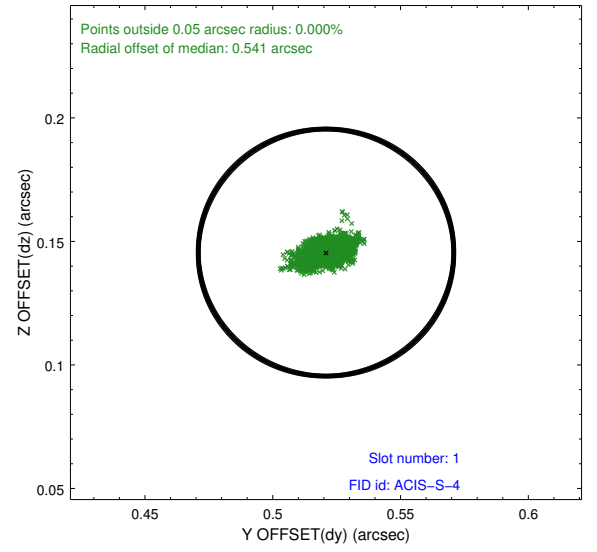
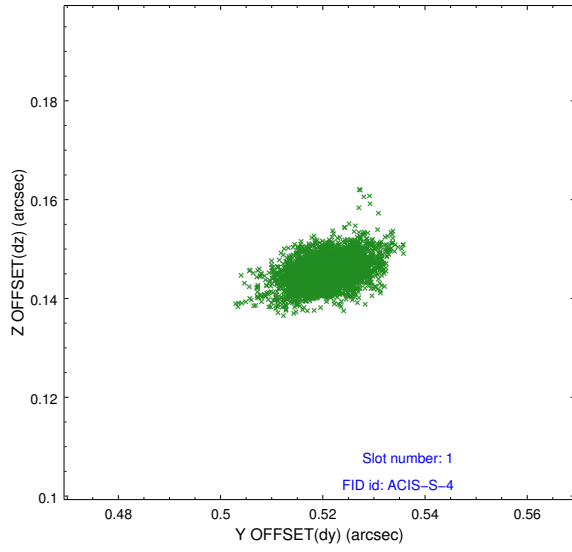


2.5 FID Slots

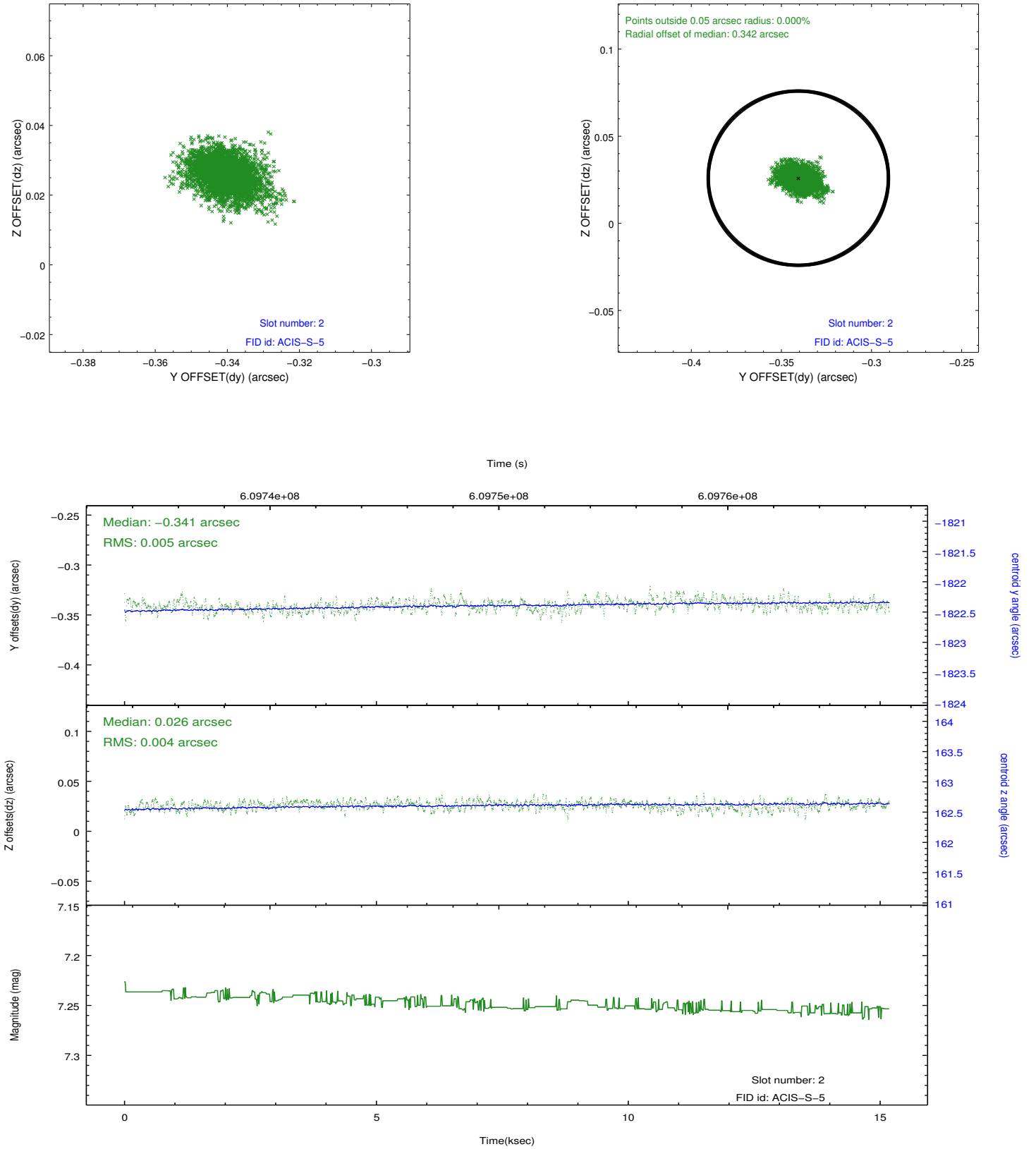
2.5.1 Slot 0



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	14.770086807847

A.2 Comments

Window preference met.