

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19390 - L2 Version 1
Chandra X-Ray Center

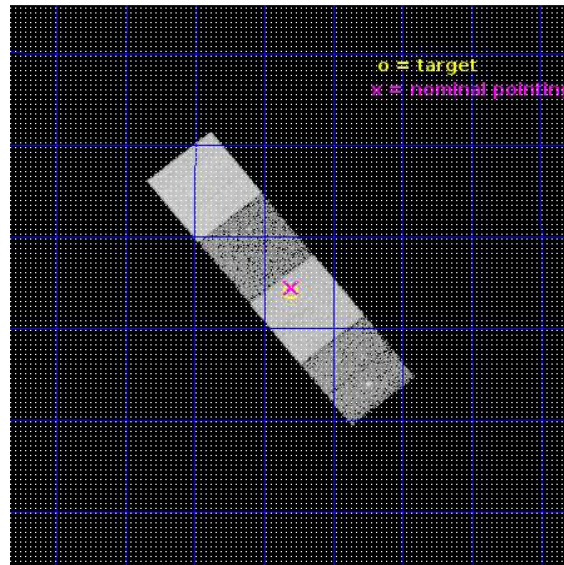
L2 Processing Date : Nov 5 2017

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1 Front

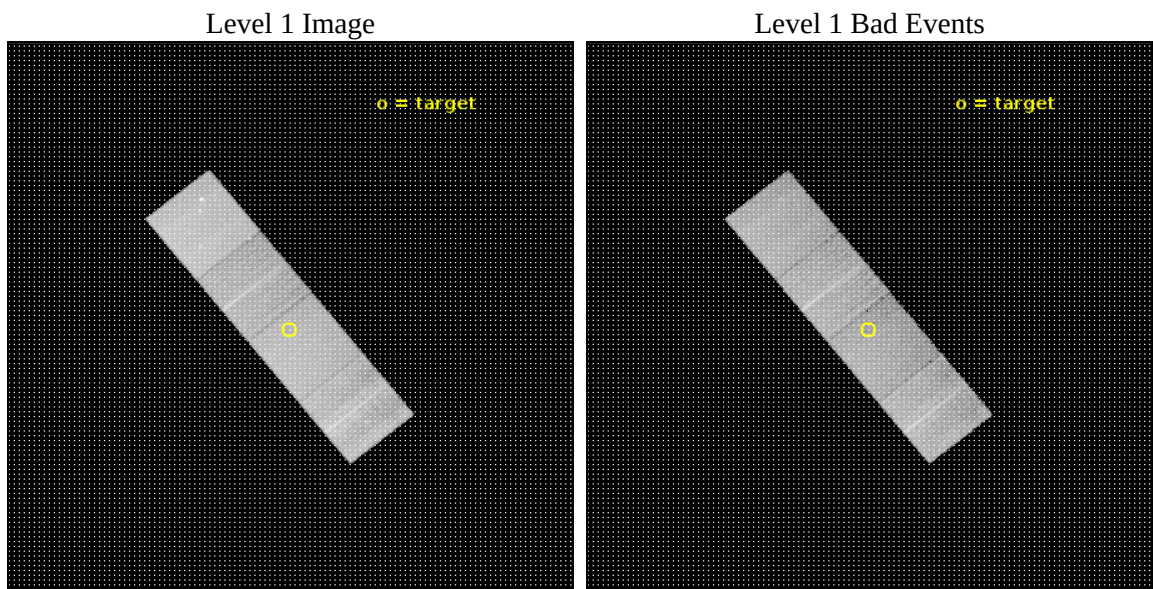
seq_num	601347	Sequence number
obs_id	19390	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4192	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.45125	Observer's specified target RA [deg]
dec_targ	14.900333	Observer's specified target Dec [deg]
ra_nom	183.45060427736	Nominal RA [deg]
dec_nom	14.907508733379	Nominal Dec [deg]
roll_nom	51.203468496052	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15058.344828248	Sum of GTIs [s]
livetime	14861.596467275	Livetime [s]
ontime5	15058.303788304	Sum of GTIs [s]
ontime6	15058.262748241	Sum of GTIs [s]
ontime7	15058.344828248	Sum of GTIs [s]
ontime8	15058.221708298	Sum of GTIs [s]
l2events	155009	Number of level 2 events



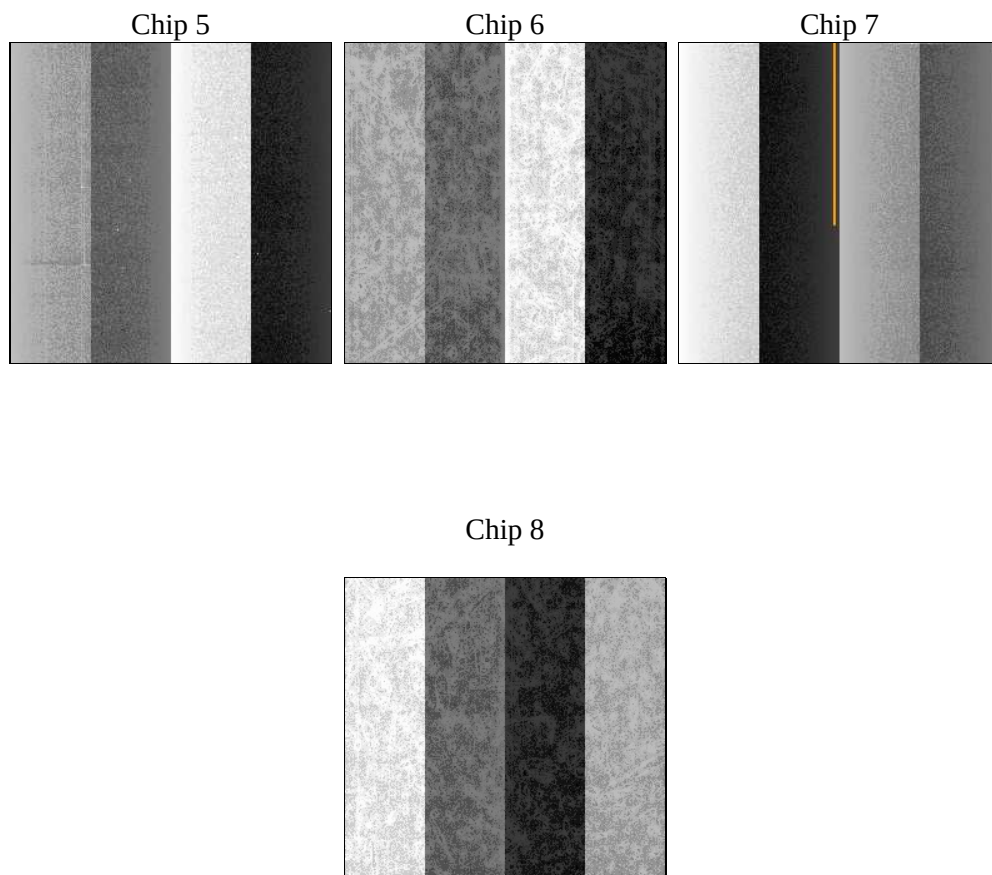
2 OBI

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	10.6	Processing system revision	ontime	15058.344828248	Sum of GTIs [s]
caldsver	4.7.6	 	ontime5	15058.303788304	Sum of GTIs [s]
date	2017-11-05T16:04:04	Date and time of file creation	ontime6	15058.262748241	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	15058.344828248	Sum of GTIs [s]
			ontime8	15058.221708298	Sum of GTIs [s]
			l1events	541412	Number of level 1 events

2.1.4 Events

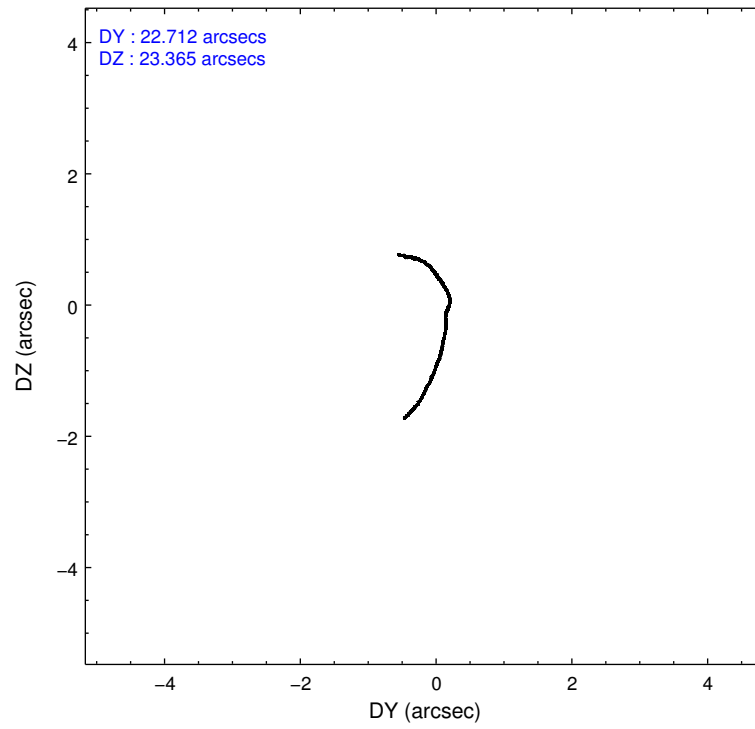
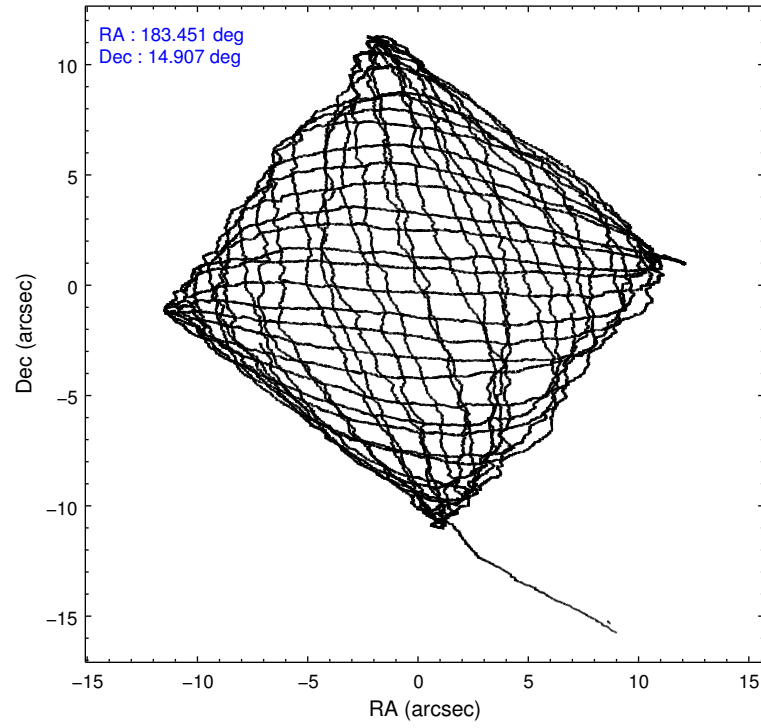
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	165281	105804	133591	136736
rejected events	85045	93754	75492	100891
rejected %	51%	88%	56%	73%

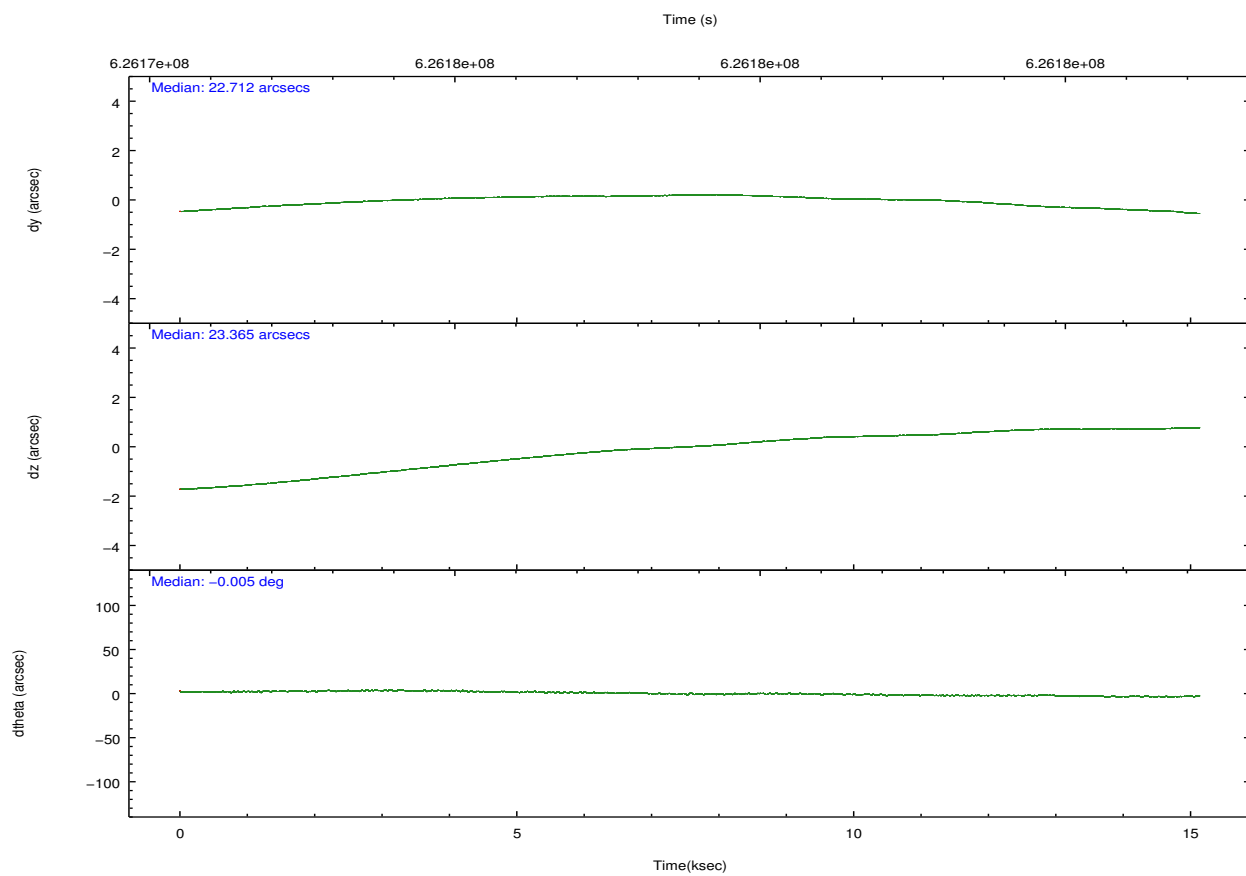
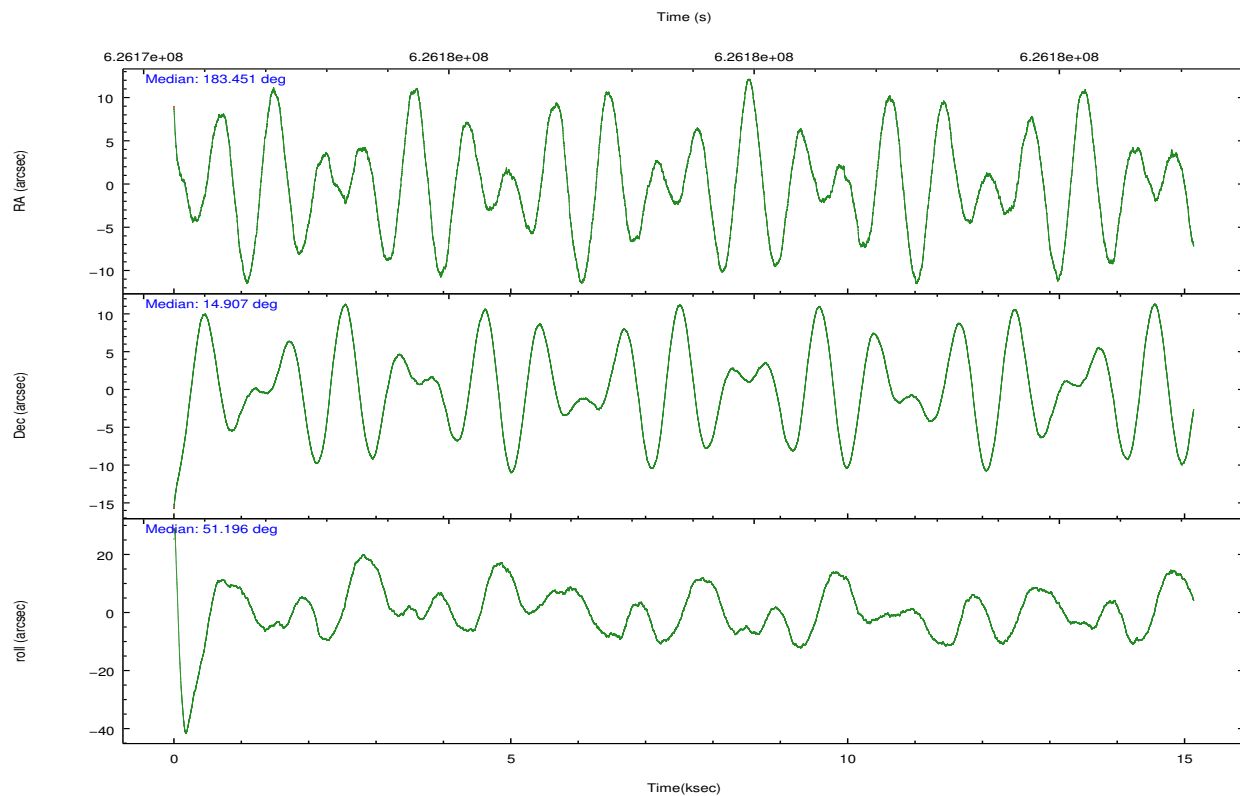
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6633	3935	4976	10234
	4%	3%	3%	7%
grade 1 events	539	58	192	122
	0%	0%	0%	0%
grade 2 events	24576	2908	12072	8817
	14%	2%	9%	6%
grade 3 events	2412	1112	4717	3661
	1%	1%	3%	2%
grade 4 events	2394	1106	4649	3532
	1%	1%	3%	2%
grade 5 events	10982	4697	13296	7344
	6%	4%	9%	5%
grade 6 events	44246	3001	31715	9668
	26%	2%	23%	7%
grade 7 events	73499	88987	61974	93358
	44%	84%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	183.446617	183.45060427736	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.880369	14.90750873337901	Alternating exposures requested	N	N
[deg] Pointing Roll	51.047801	51.2034684960523	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	626171414.184000	626170154.1095099			
Observation start date	2017-11-04T08:29:05	2017-11-04T08:09:14			
[s] Observation end time (MET)	626186414.184000	626187485.83552			
Observation end date	2017-11-04T12:39:05	2017-11-04T12:58:05			
Read mode	TIMED	TIMED			

2.3 Aspect



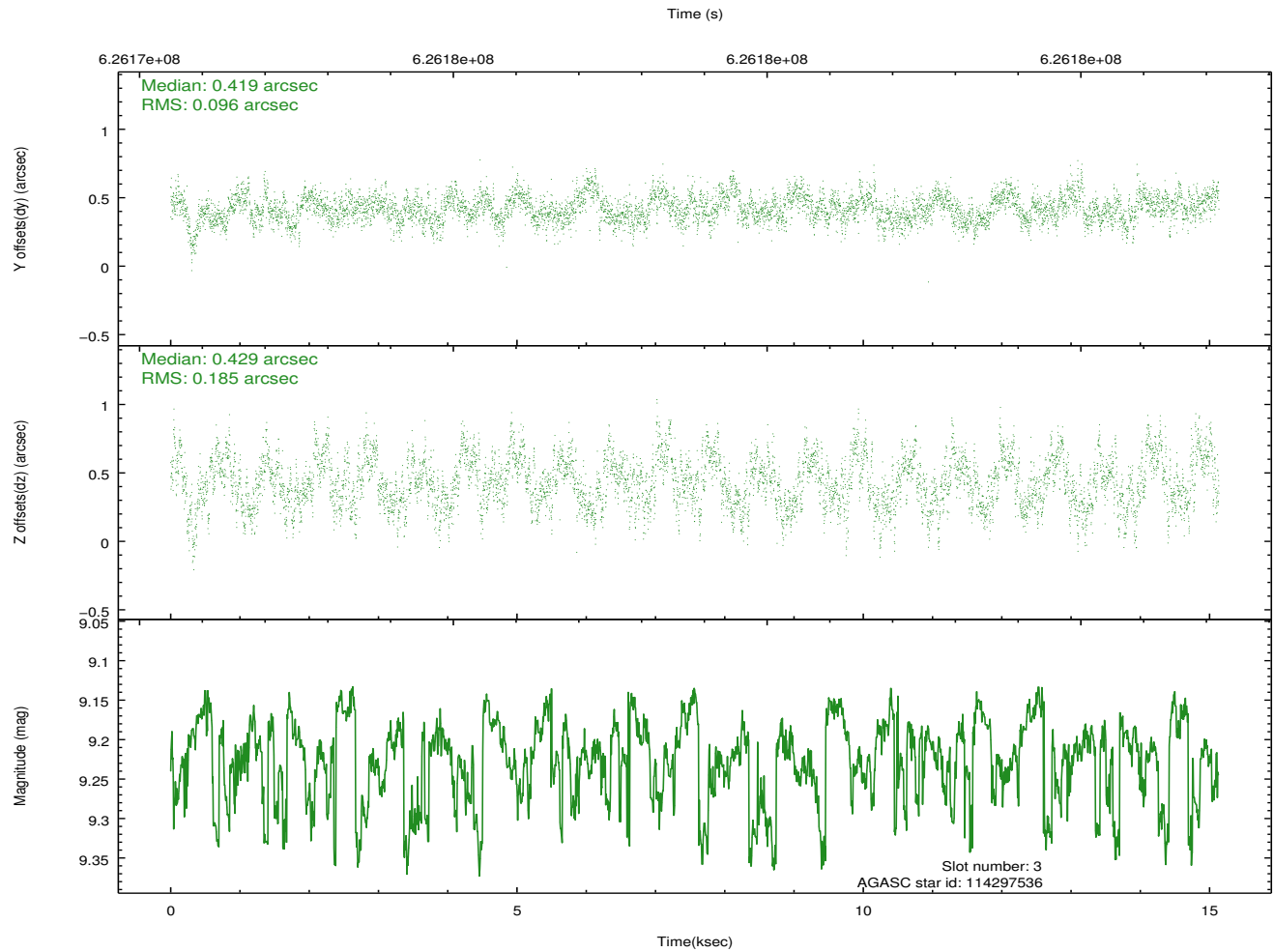
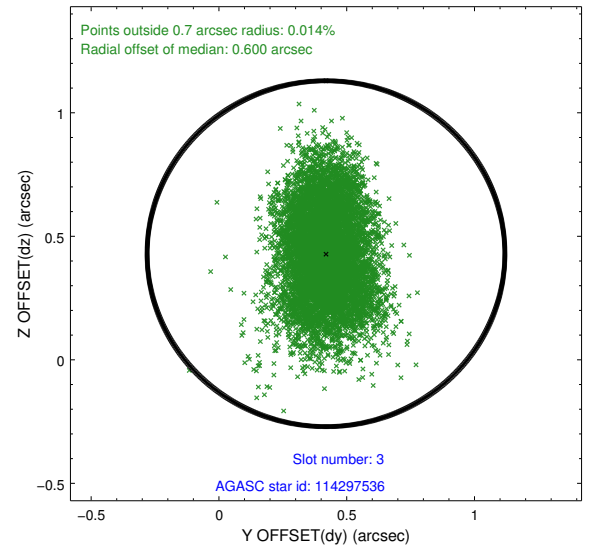
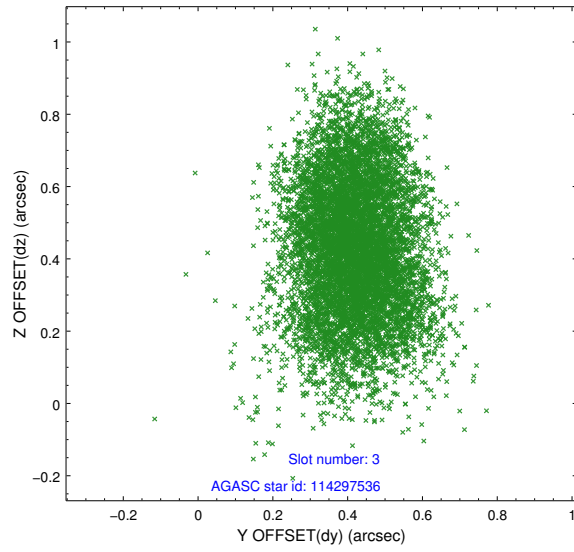


Slot Statistics

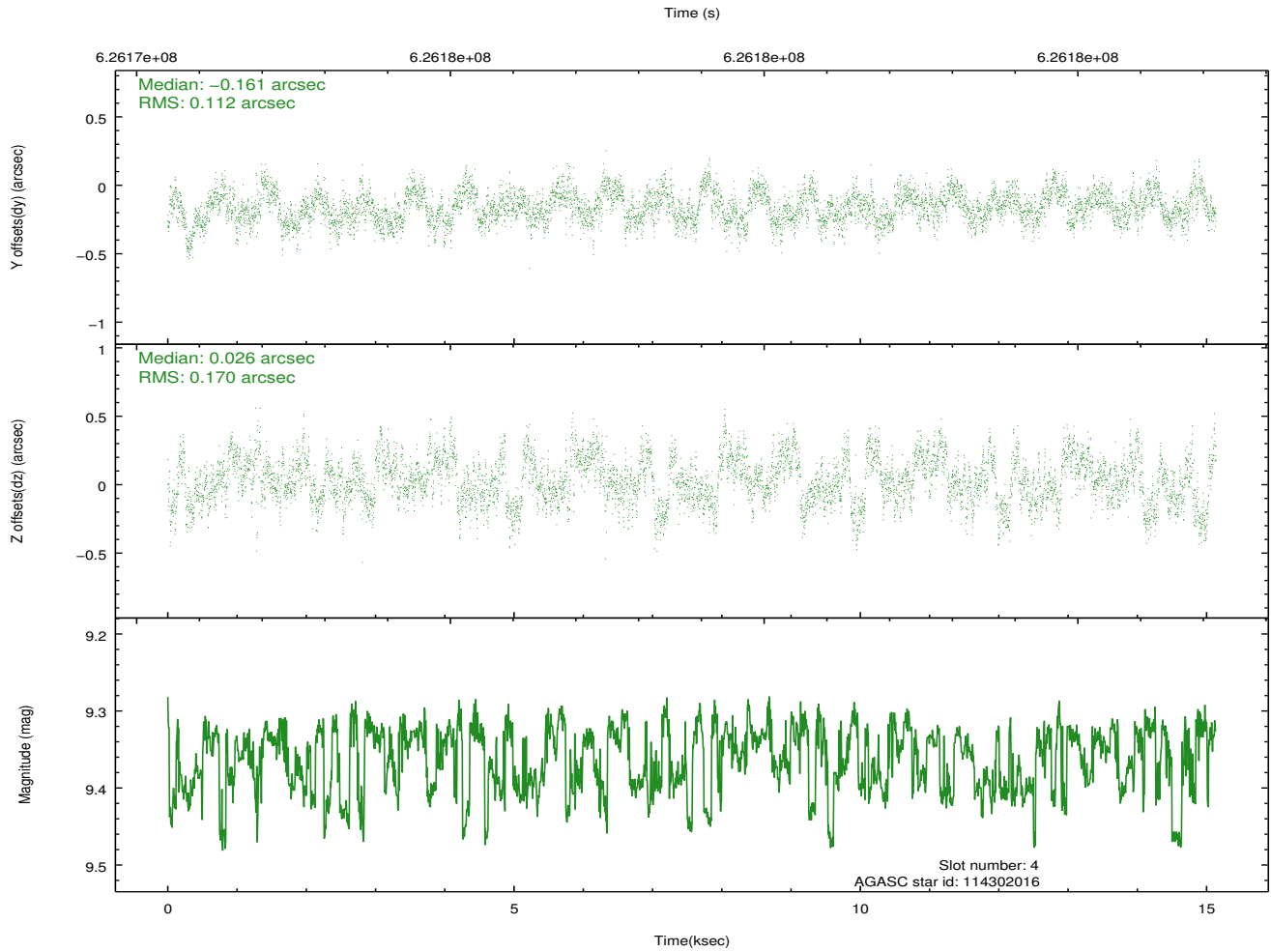
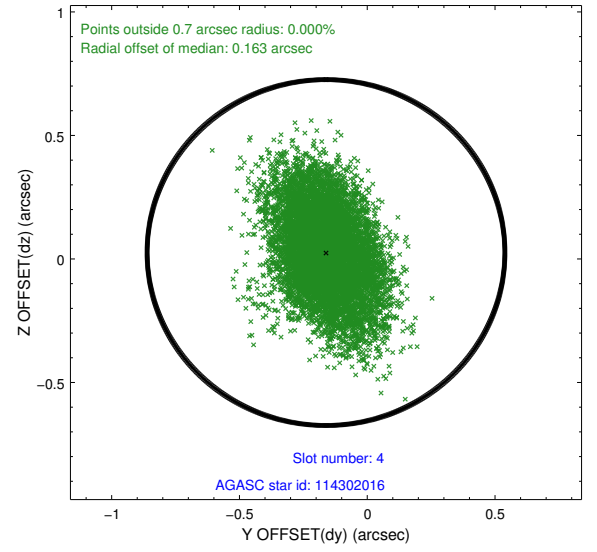
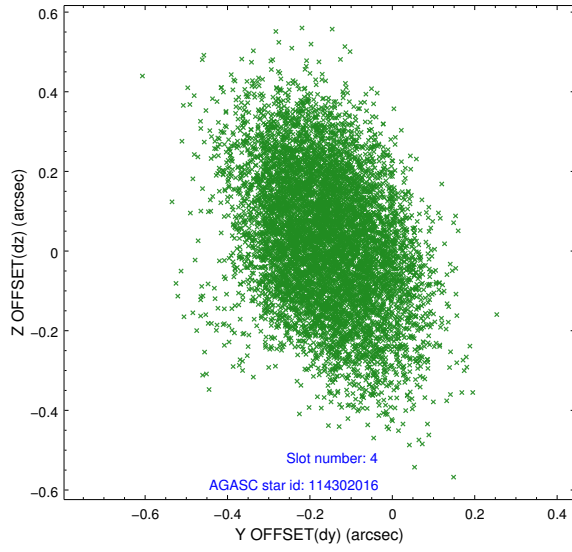
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	3692	-0.244	-0.153	0.037	0.051	0.000000	0.000000	-776.02	-1744.96
1	FID		ACIS-S-4	7.21	3690	0.565	0.155	0.015	0.023	0.000000	0.000000	2137.88	163.58
2	FID		ACIS-S-5	7.23	3692	-0.360	0.001	0.035	0.052	0.000000	0.000000	-1828.65	157.34
3	GUIDE	used	114297536	9.22	7377	0.419	0.429	0.223	0.365	183.757120	14.264956	-1040.10	-2234.20
4	GUIDE	used	114302016	9.36	7366	-0.161	0.026	0.213	0.356	183.083425	14.815890	-974.30	837.69
5	GUIDE	used	114303096	9.24	7300	0.344	0.175	0.227	0.348	183.214020	14.515722	-1529.83	-193.54
6	GUIDE	used	115218424	9.08	7372	-0.026	0.075	0.181	0.289	184.237137	14.820527	1565.67	-2271.37
7	GUIDE	used	189020552	9.26	7304	-0.570	-0.719	0.212	0.325	183.453127	15.463537	1646.12	1301.22

2.4 Star Slots

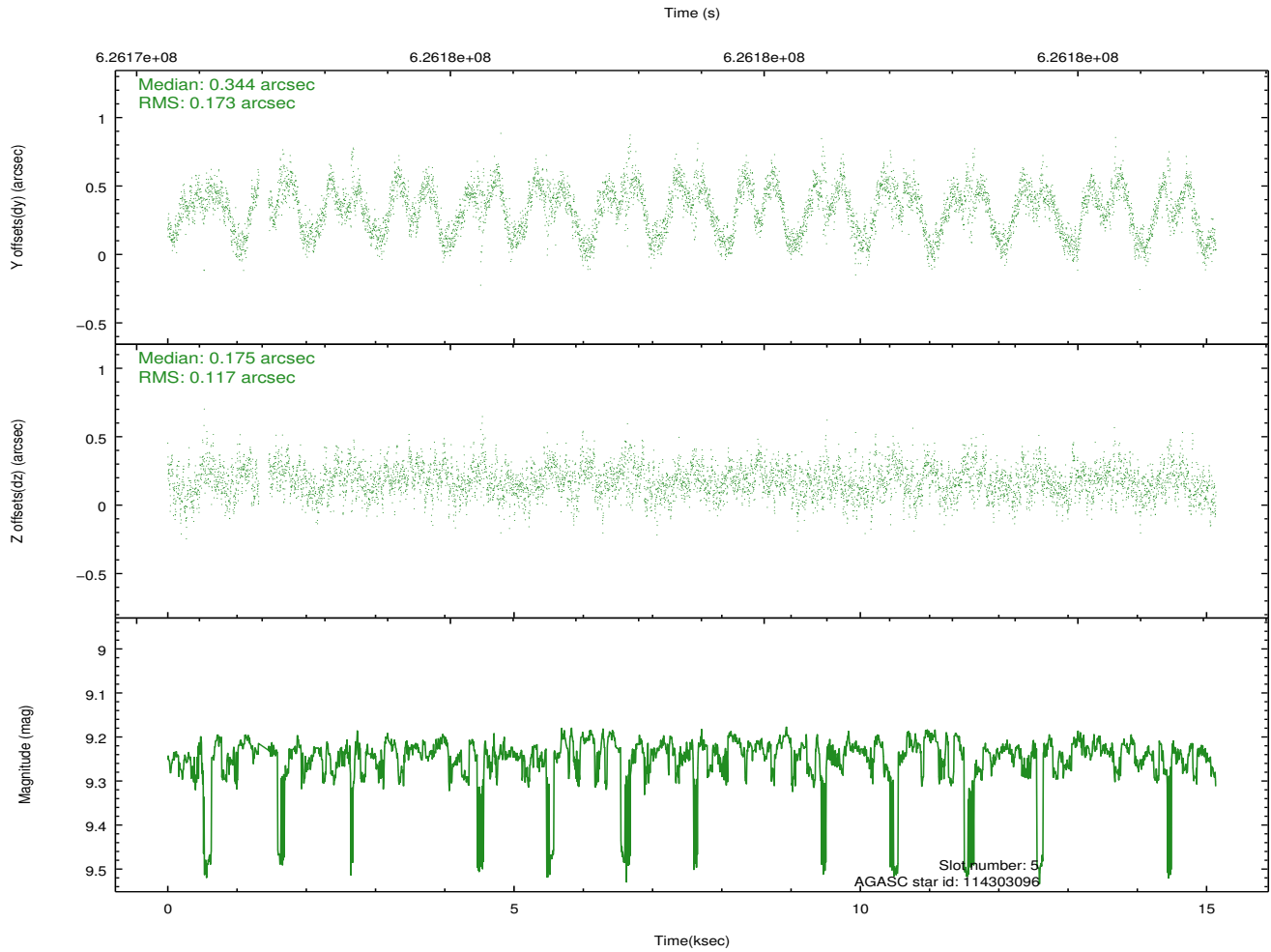
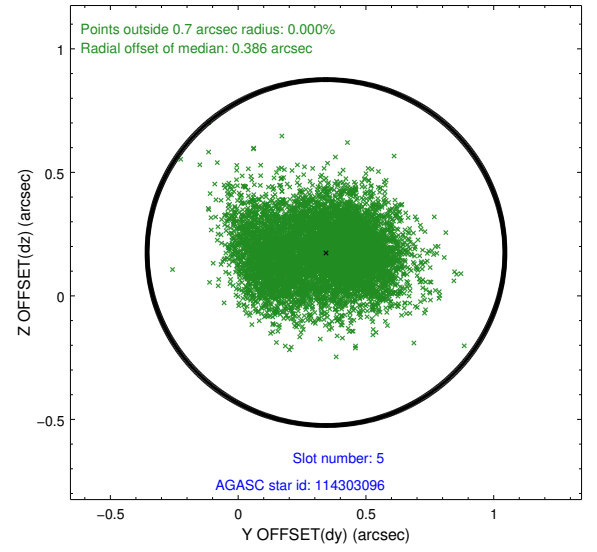
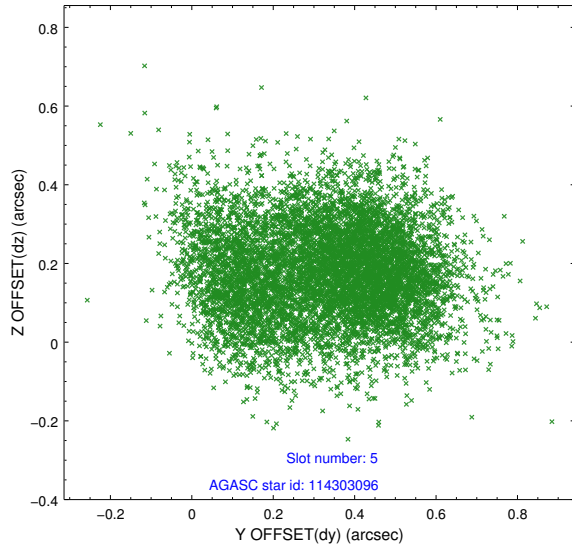
2.4.1 Slot 3



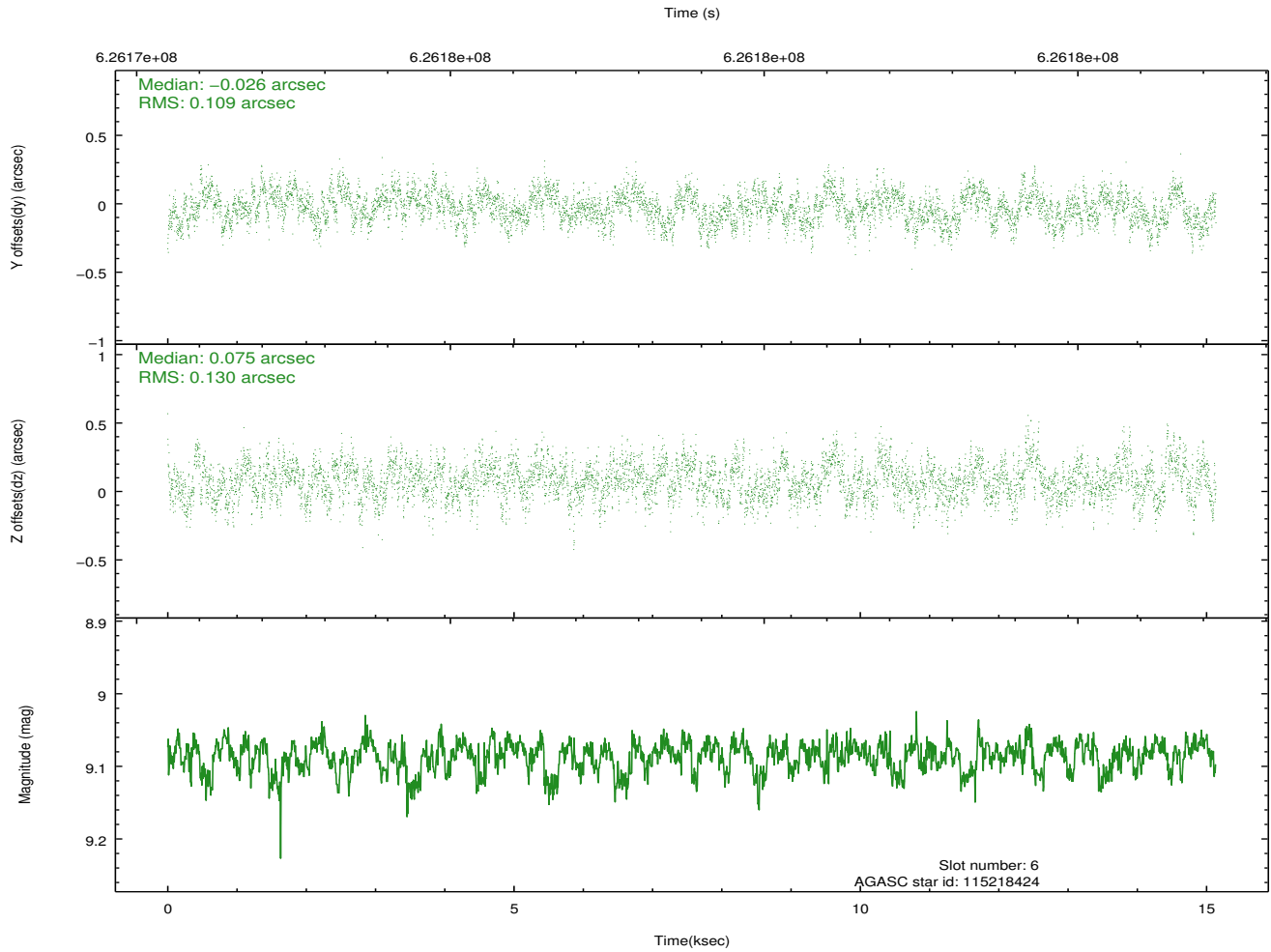
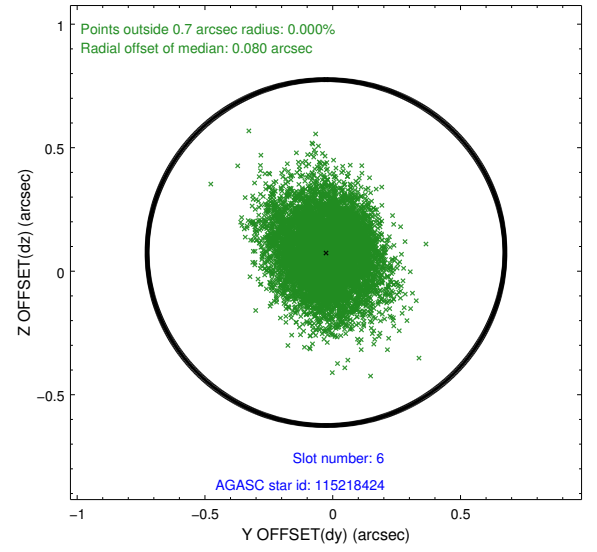
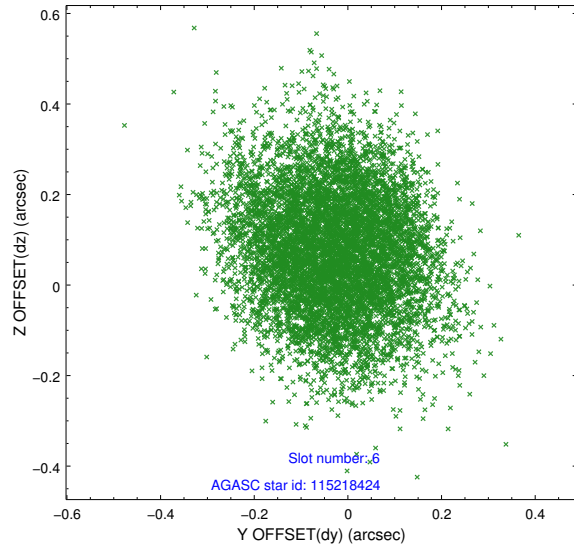
2.4.2 Slot 4



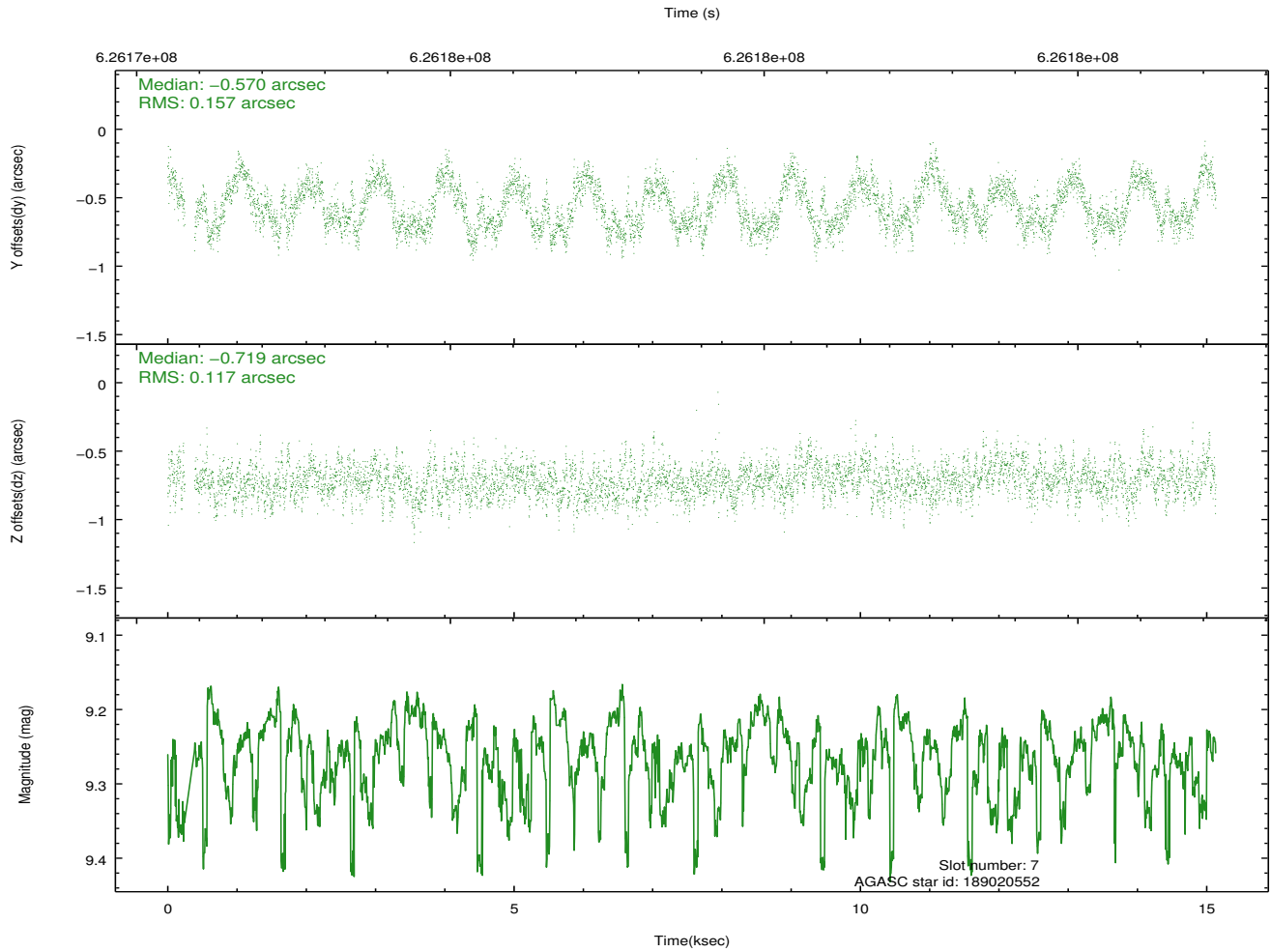
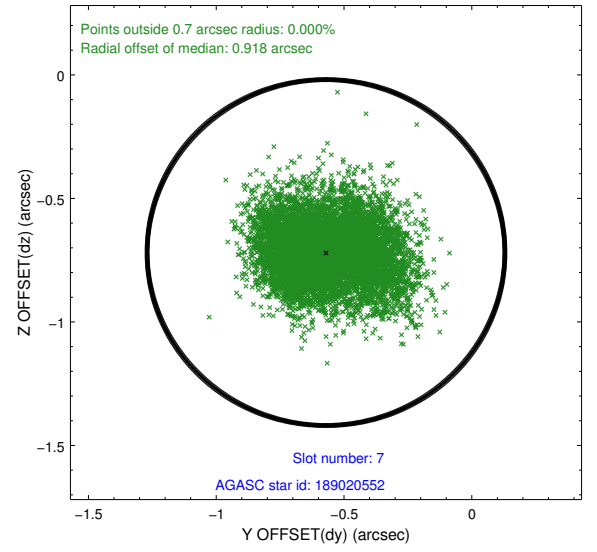
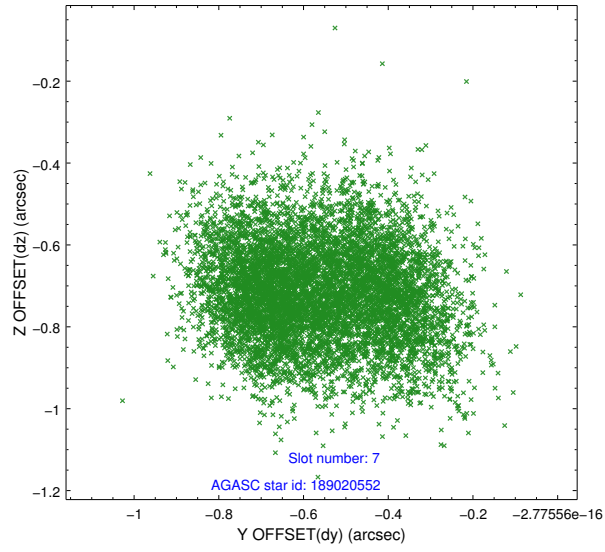
2.4.3 Slot 5



2.4.4 Slot 6

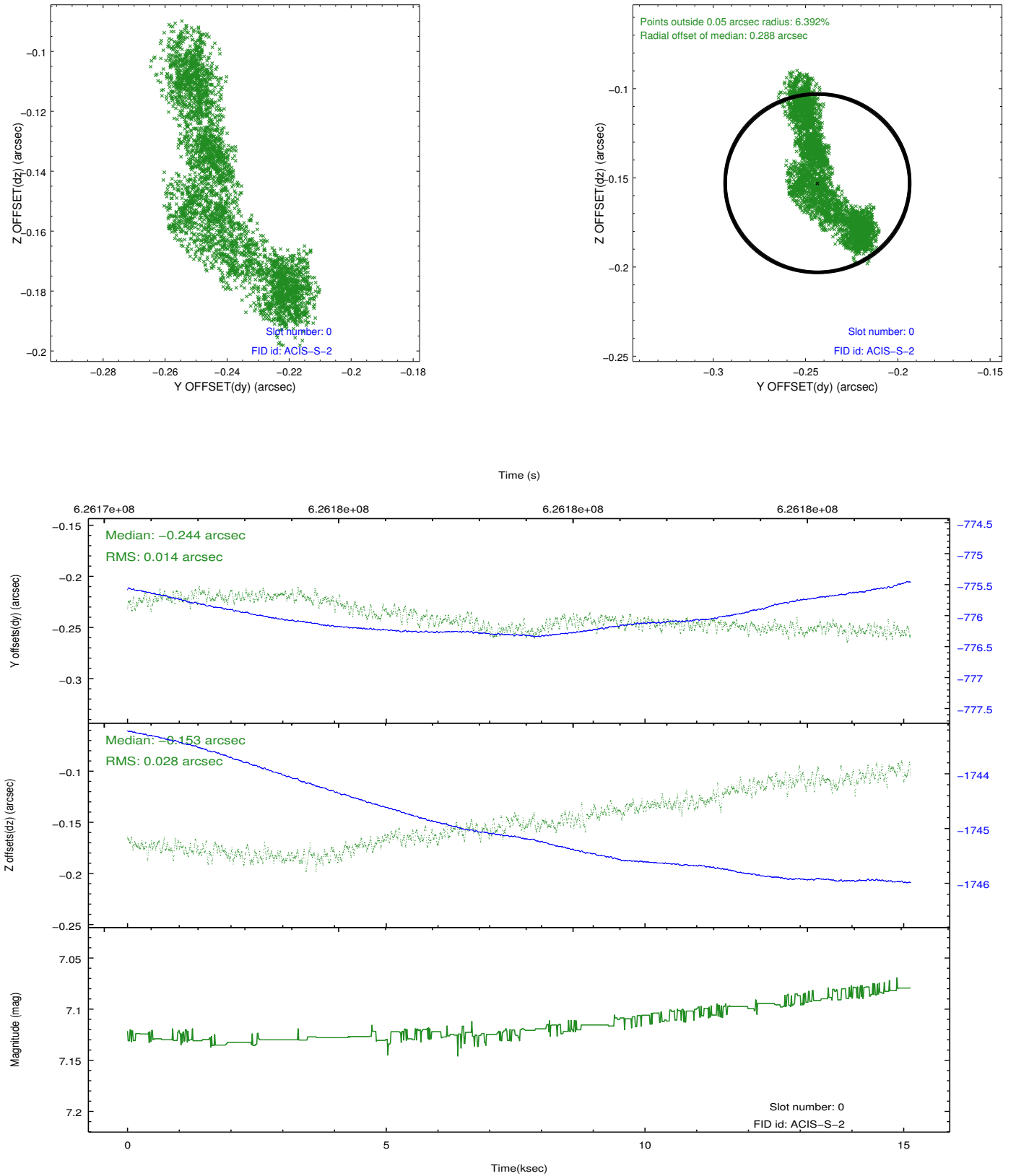


2.4.5 Slot 7

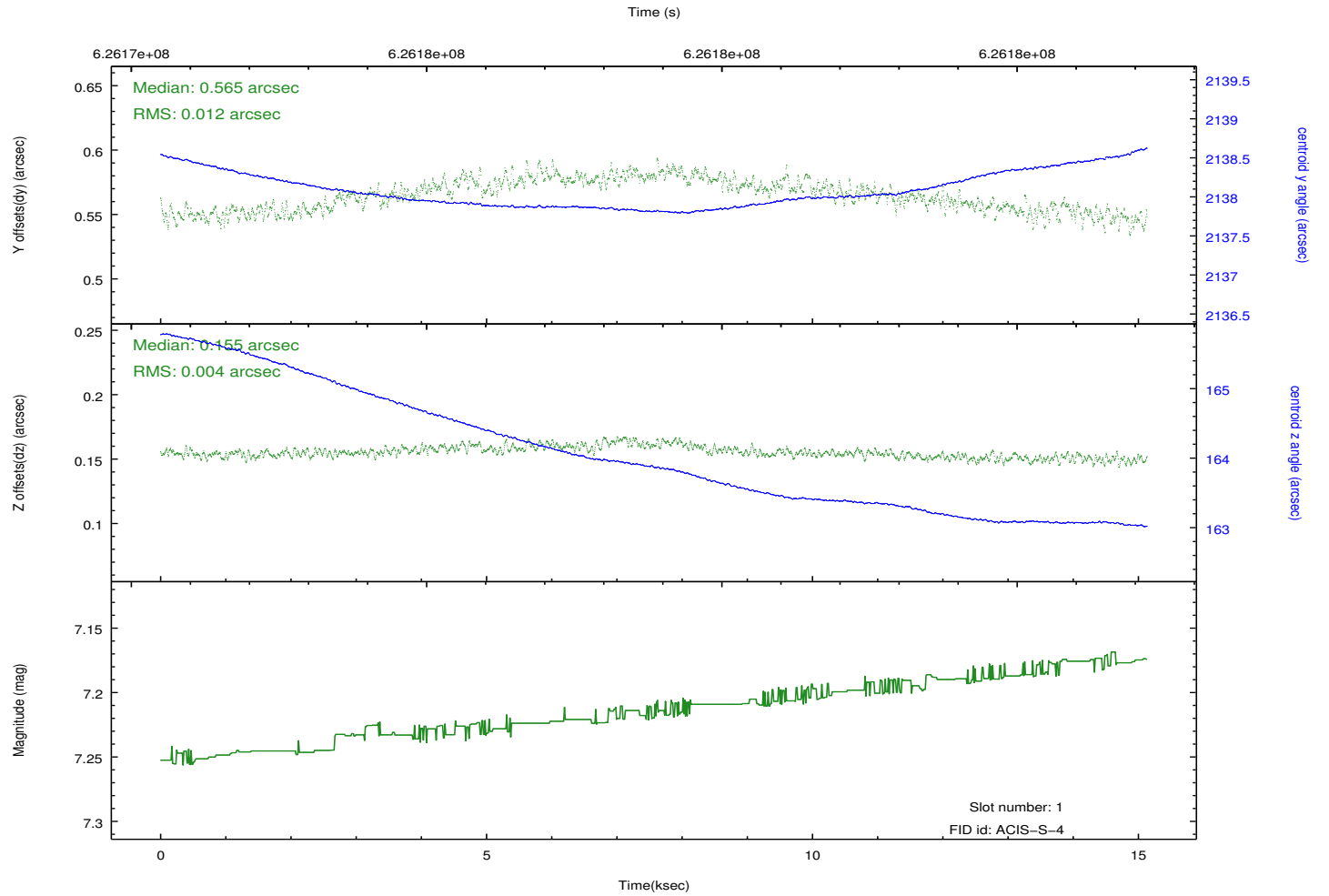
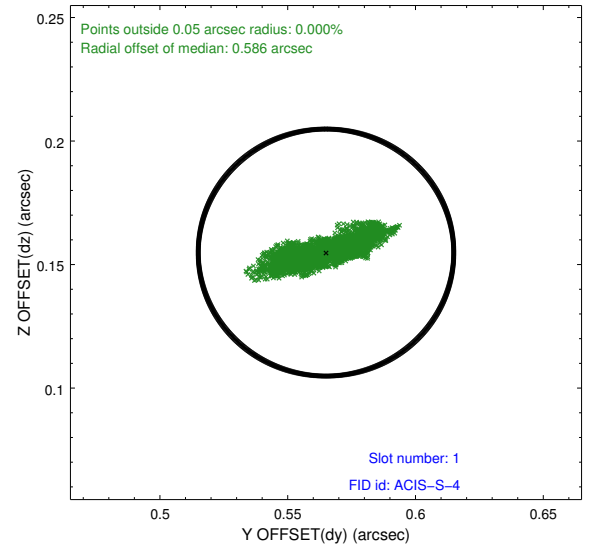
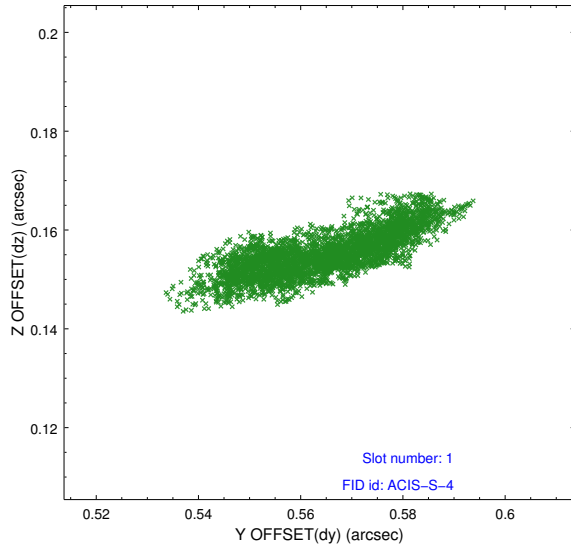


2.5 FID Slots

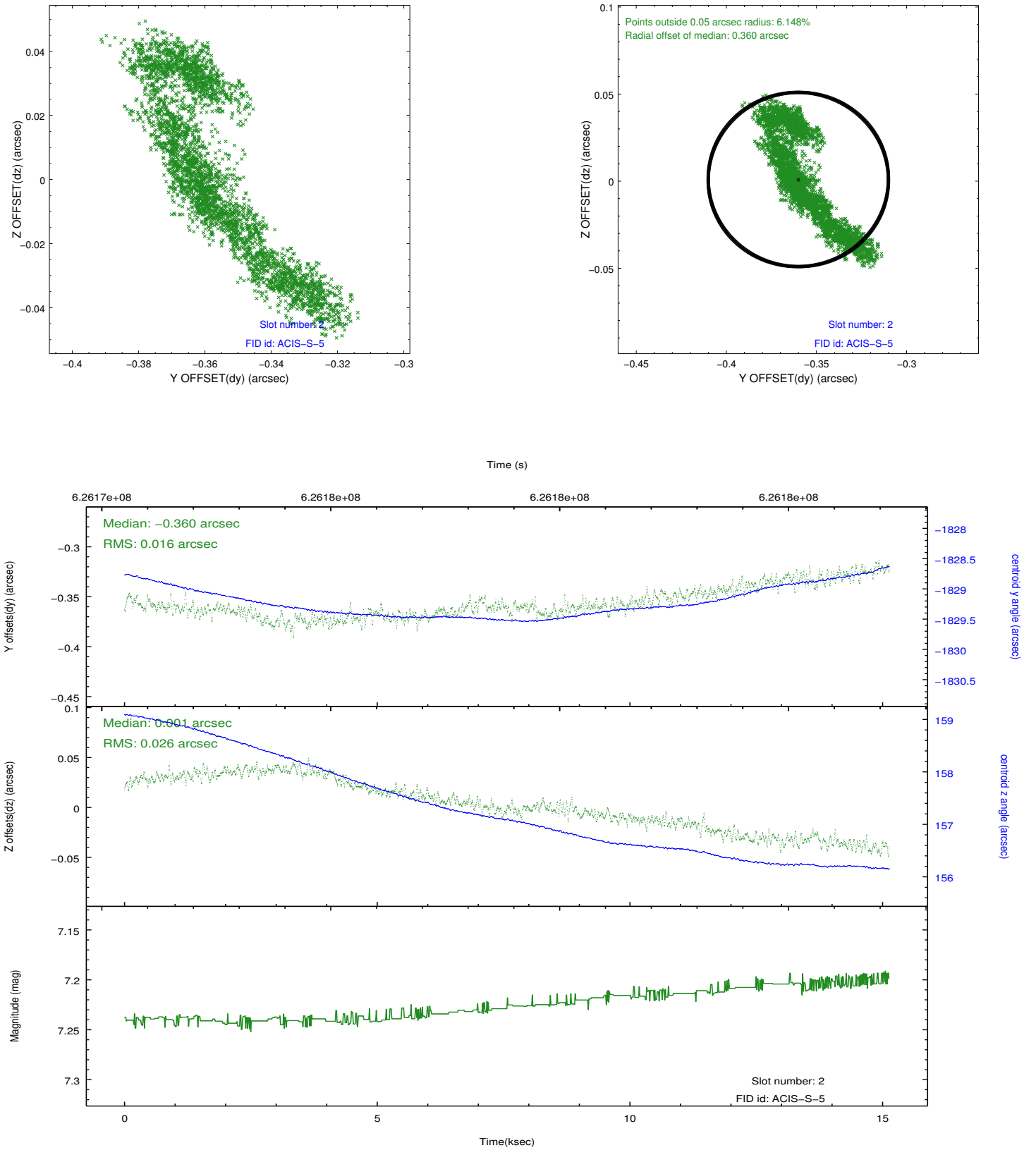
2.5.1 Slot 0



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)	2017.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.058344828248

A.2 Comments