

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17684 - L2 Version 1
Chandra X-Ray Center

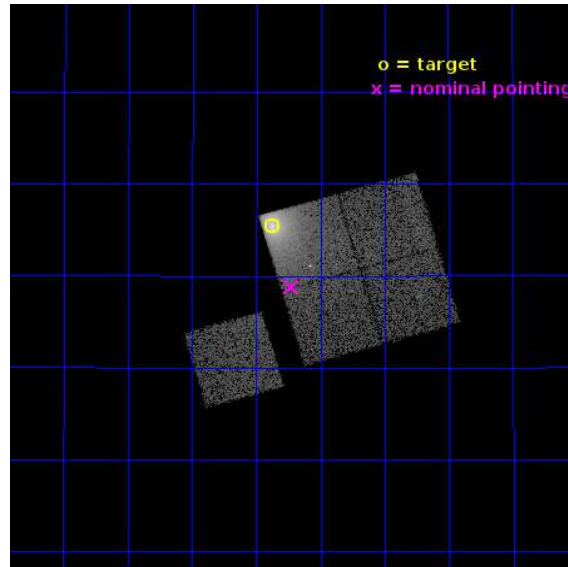
L2 Processing Date : Jul 24 2015

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

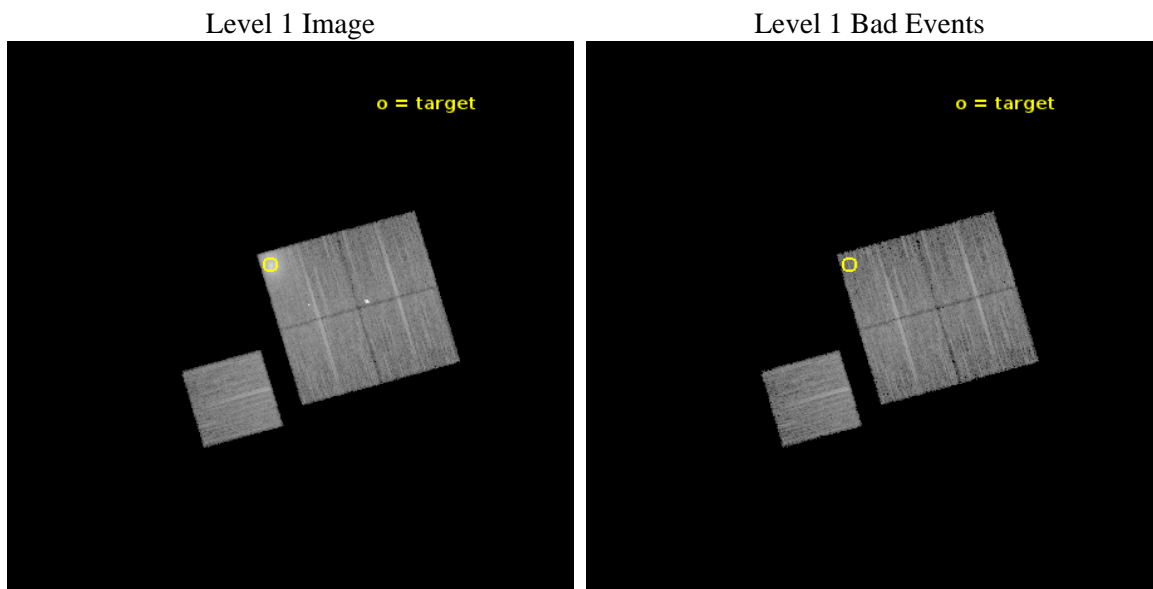
seq_num	890113	Sequence number
obs_id	17684	Observation id
title	Measuring the Spatial Distribution of the ACIS contaminant with Abell 1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	abell 1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.18152124933	Nominal RA [deg]
dec_nom	26.480517781954	Nominal Dec [deg]
roll_nom	253.91631684726	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15075.300116062	Sum of GTIs [s]
livetime	14878.330221771	Livetime [s]
ontime0	15075.300116062	Sum of GTIs [s]
ontime1	15075.300116062	Sum of GTIs [s]
ontime2	15075.300116062	Sum of GTIs [s]
ontime3	15075.300116062	Sum of GTIs [s]
ontime6	15072.159115911	Sum of GTIs [s]
l2events	92671	Number of level 2 events



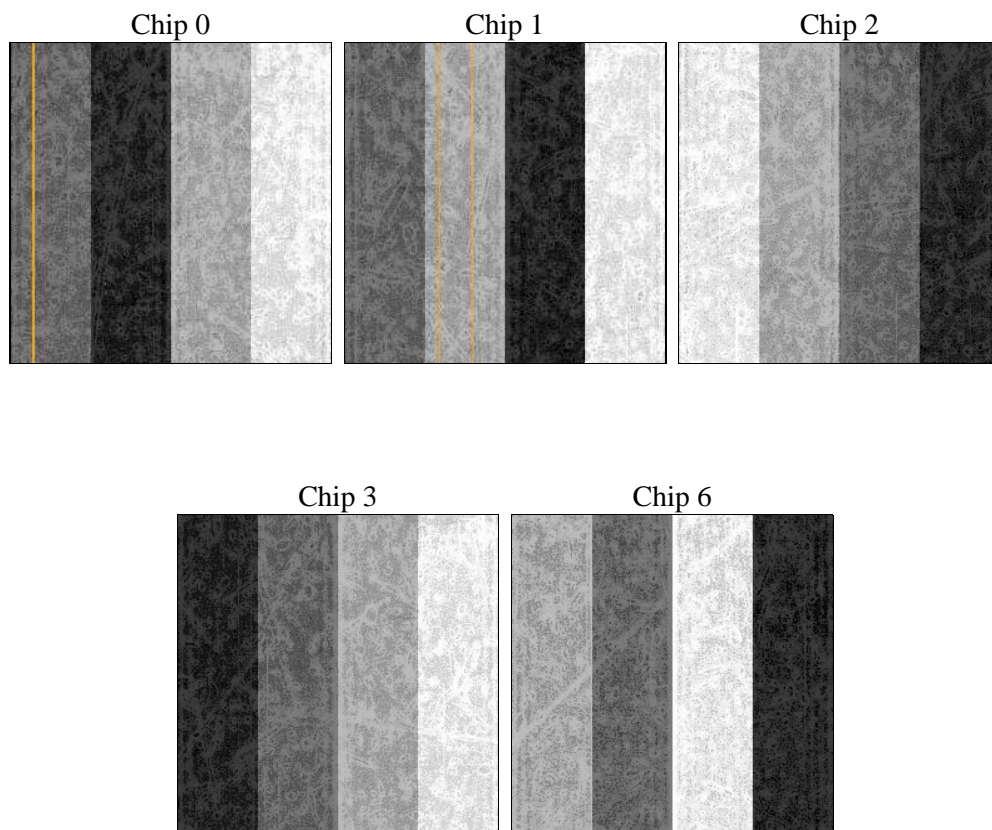
2 OBI

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	10.4.1	Processing system revision	ontime	15075.300116062	Sum of GTIs [s]
caldbver	4.6.8	 	ontime0	15075.300116062	Sum of GTIs [s]
date	2015-07-24T15:20:10	Date and time of file creation	ontime1	15075.300116062	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15075.300116062	Sum of GTIs [s]
			ontime3	15075.300116062	Sum of GTIs [s]
			ontime6	15072.159115911	Sum of GTIs [s]
			l1events	448688	Number of level 1 events

2.1.4 Events

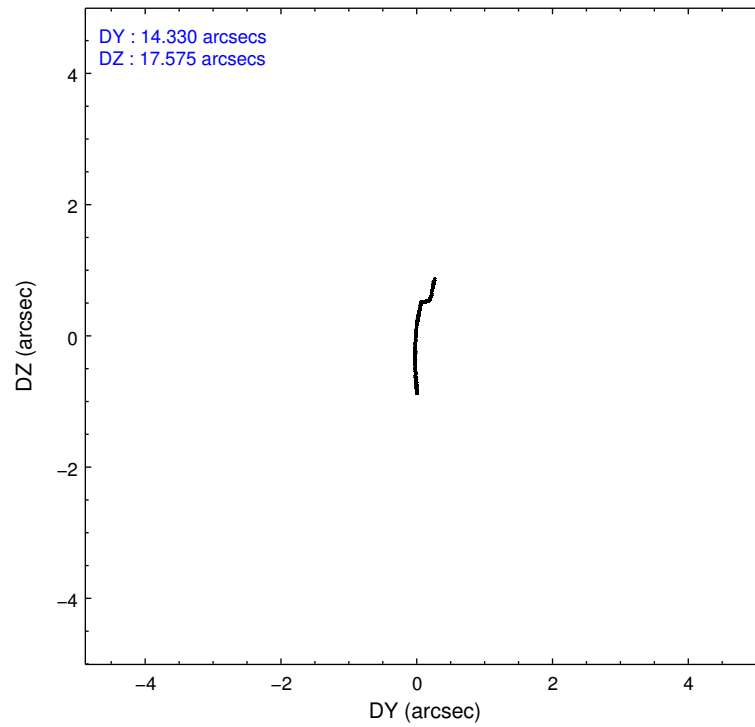
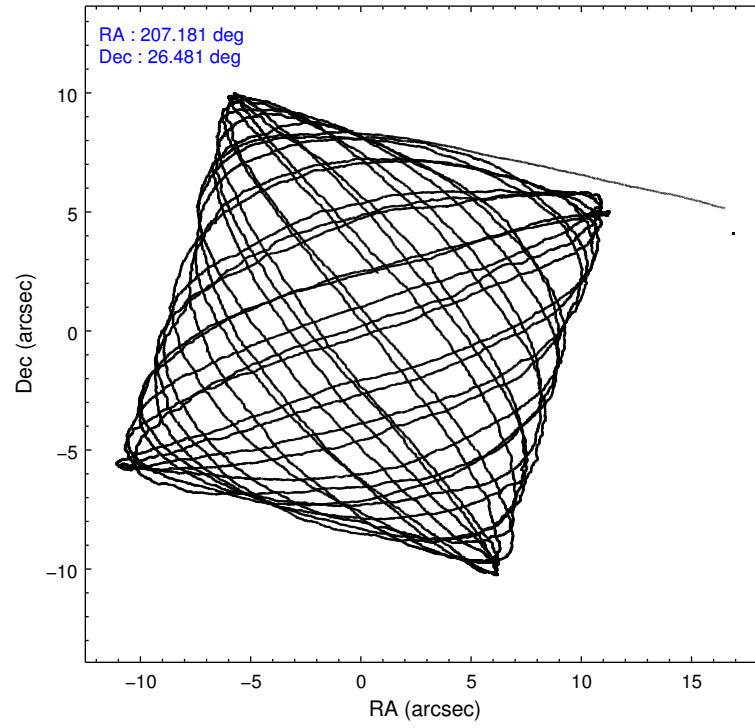
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	74382	78863	84144	131799	79500
rejected events	65520	63802	74377	69731	70184
rejected %	88%	80%	88%	52%	88%

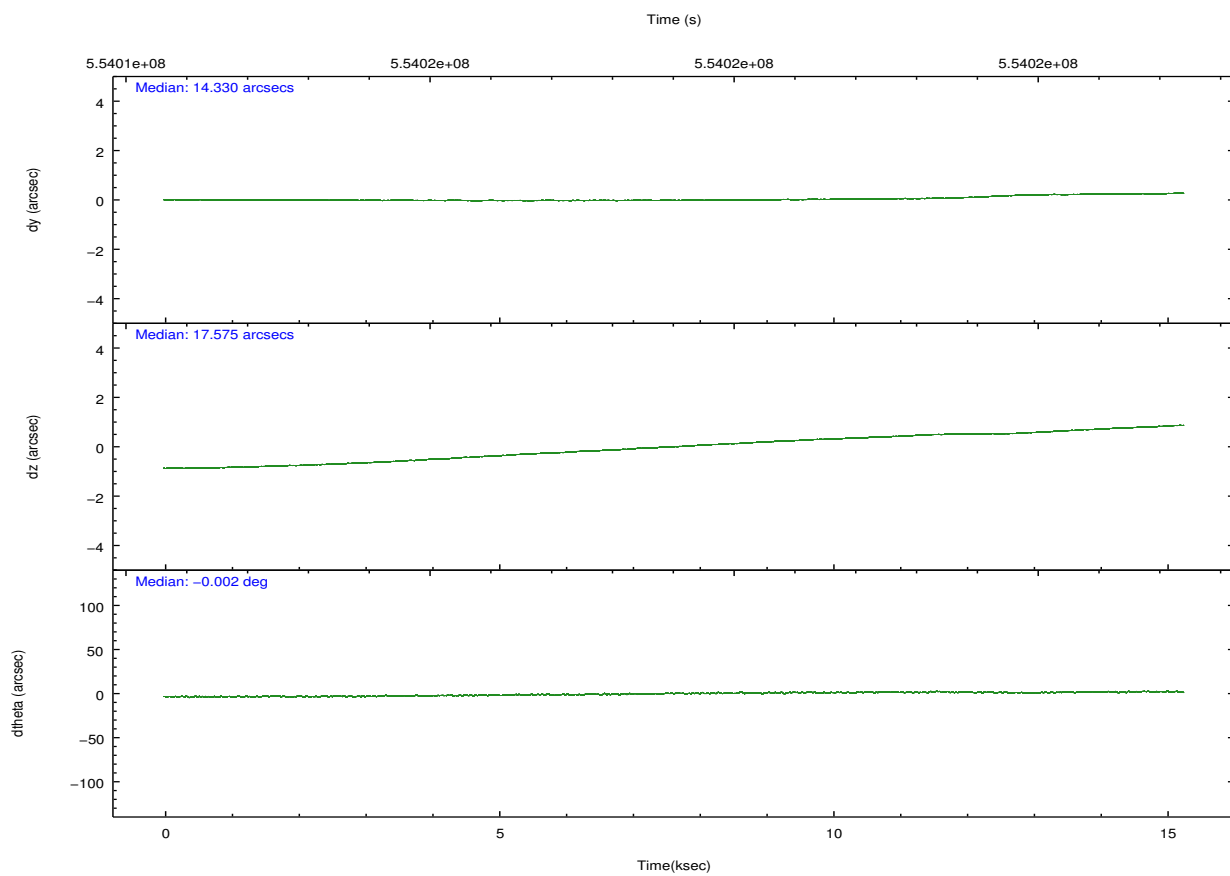
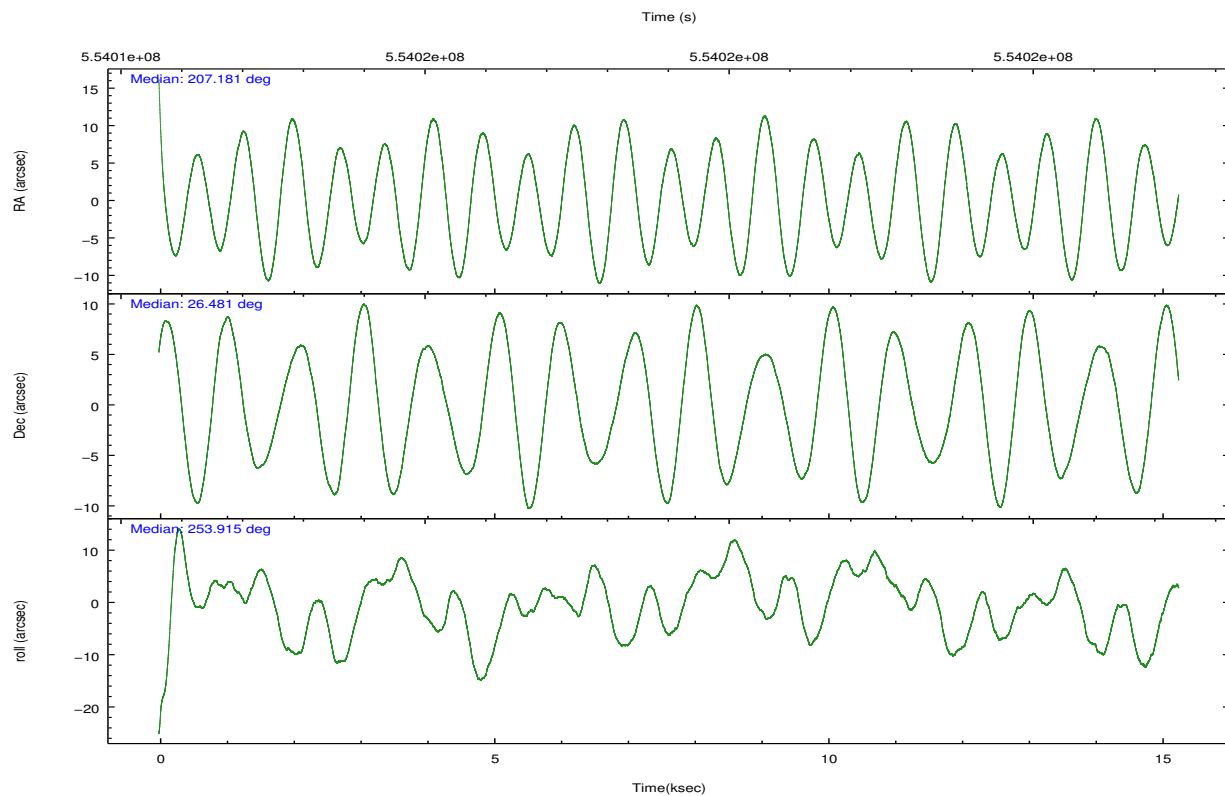
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3087	8343	4014	45122	3207
	4%	10%	4%	34%	4%
grade 1 events	38	57	47	247	29
	0%	0%	0%	0%	0%
grade 2 events	2128	2556	2056	7790	2144
	2%	3%	2%	5%	2%
grade 3 events	920	945	937	2763	859
	1%	1%	1%	2%	1%
grade 4 events	863	936	945	2829	830
	1%	1%	1%	2%	1%
grade 5 events	3555	3661	3338	4183	3696
	4%	4%	3%	3%	4%
grade 6 events	1865	2285	1816	3600	2278
	2%	2%	2%	2%	2%
grade 7 events	61926	60080	70991	65265	66457
	83%	76%	84%	49%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	207.174015	207.1815212493301	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.507246	26.48051778195385	Alternating exposures requested	N	N
[deg] Pointing Roll	253.710991	253.9163168472563	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-214.092463	-214.0964622431356			
[mm] SIM translation stage offset	-19.5	-19.49599075979413			
[s] Observation start time (MET)	554011627.184000	554010493.1228499			
Observation start date	2015-07-23T04:05:59	2015-07-23T03:48:13			
[s] Observation end time (MET)	554026627.184000	554027520.9363101			
Observation end date	2015-07-23T08:15:59	2015-07-23T08:32:00			
Read mode	TIMED	TIMED			

2.3 Aspect



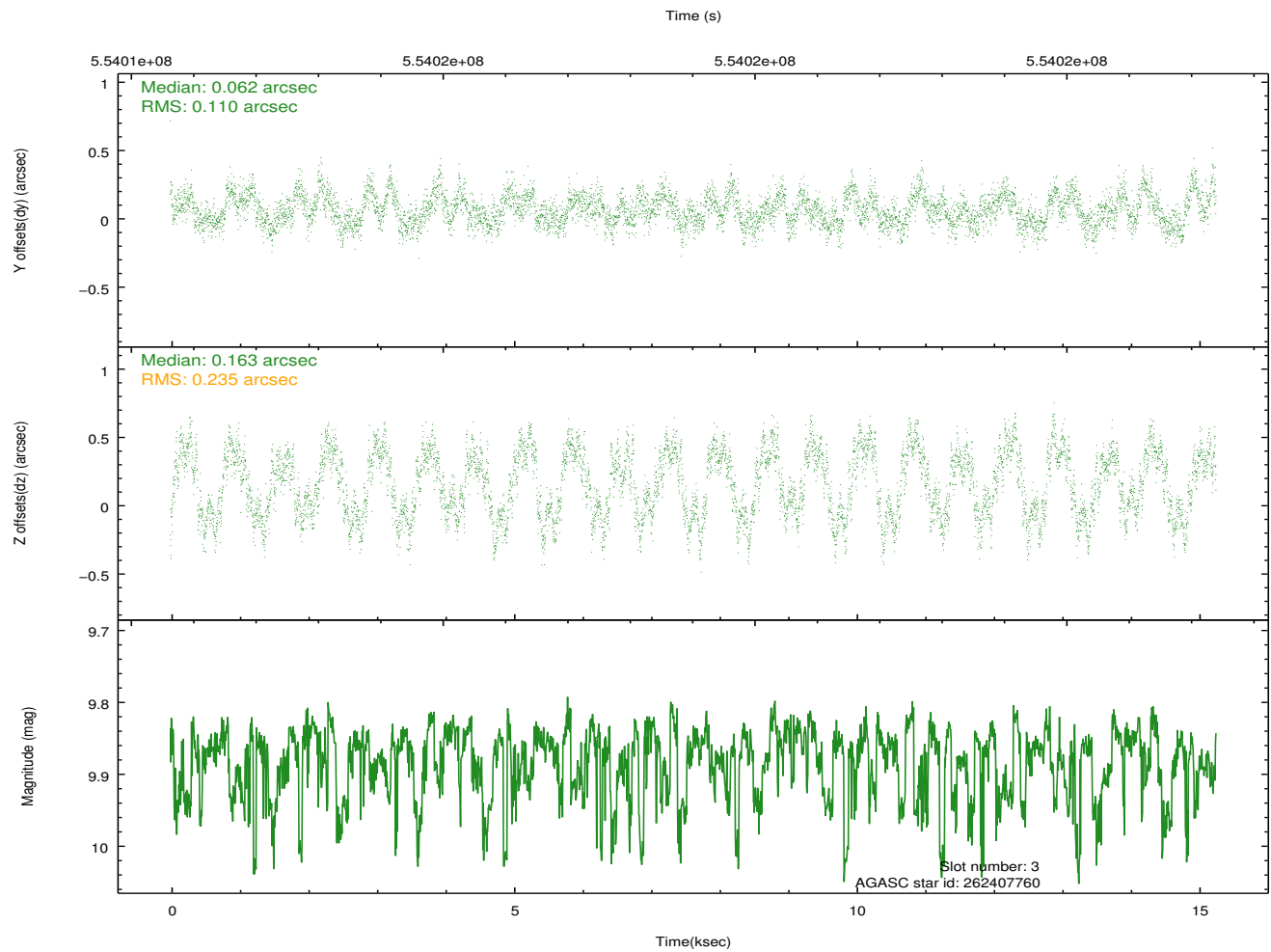
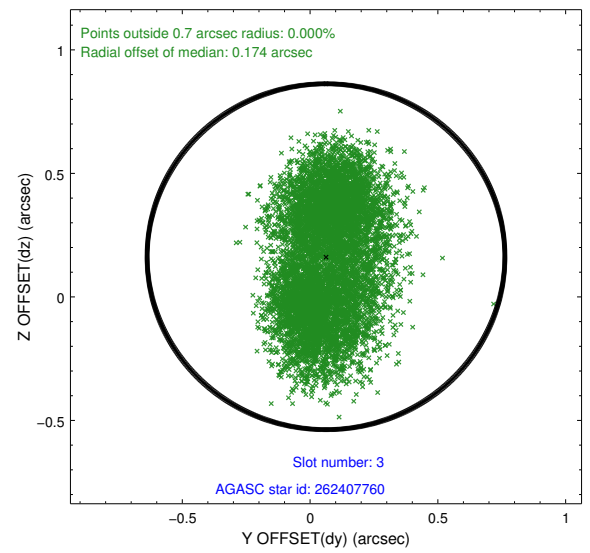
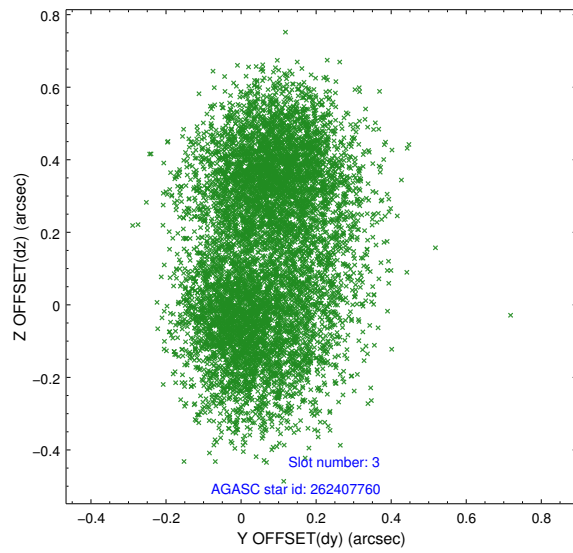


Slot Statistics

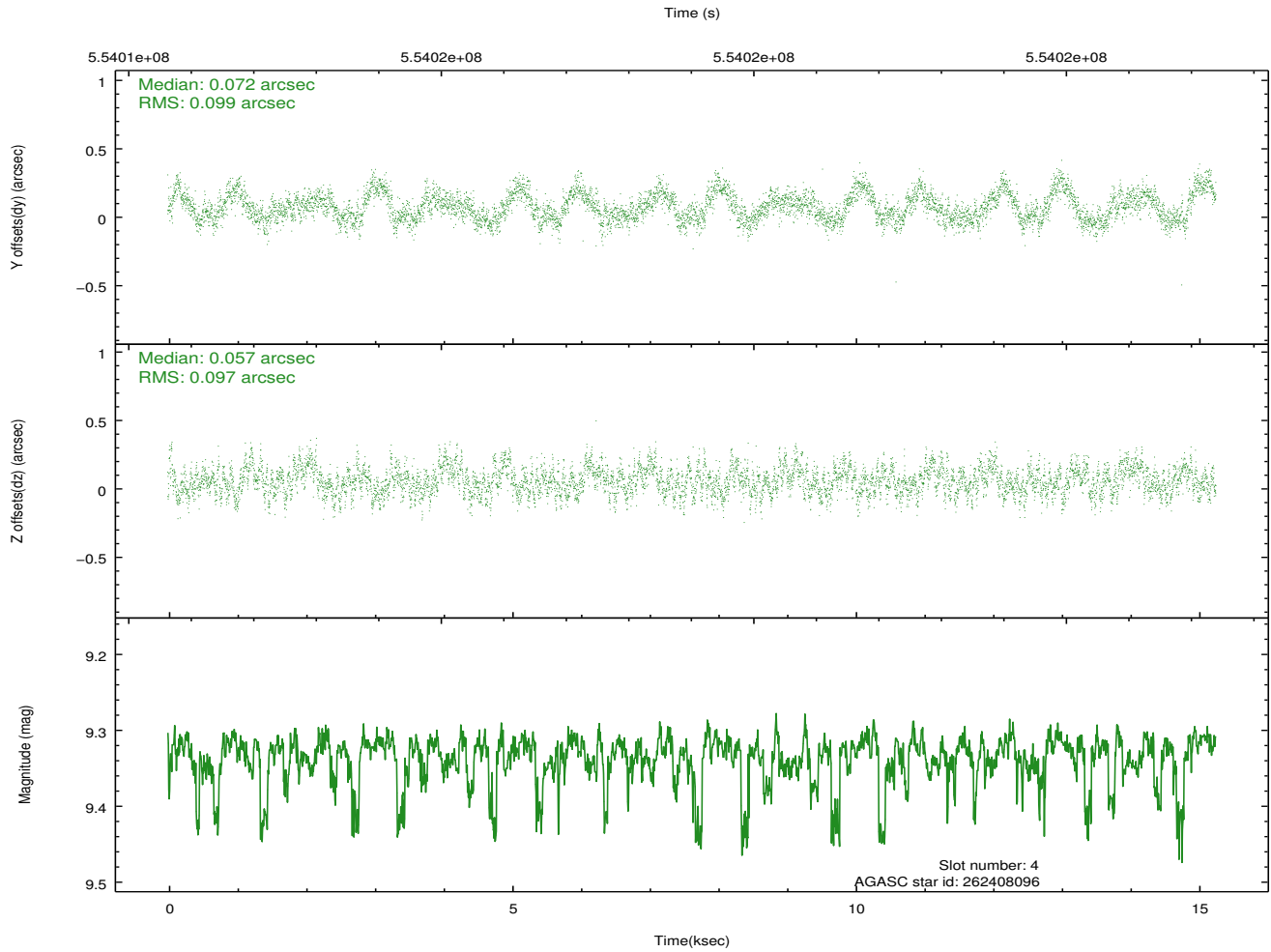
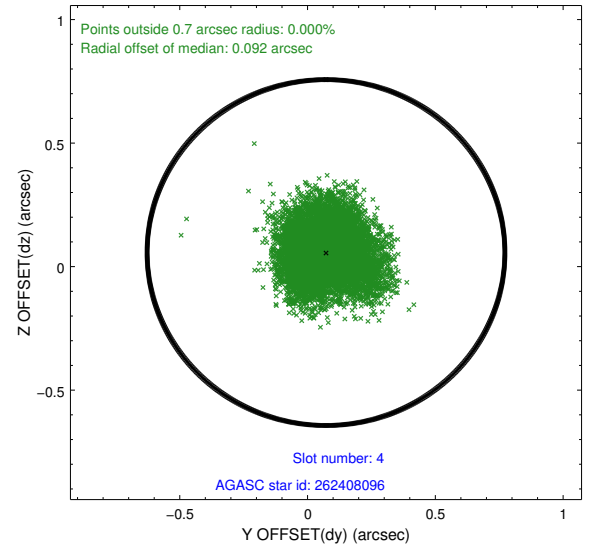
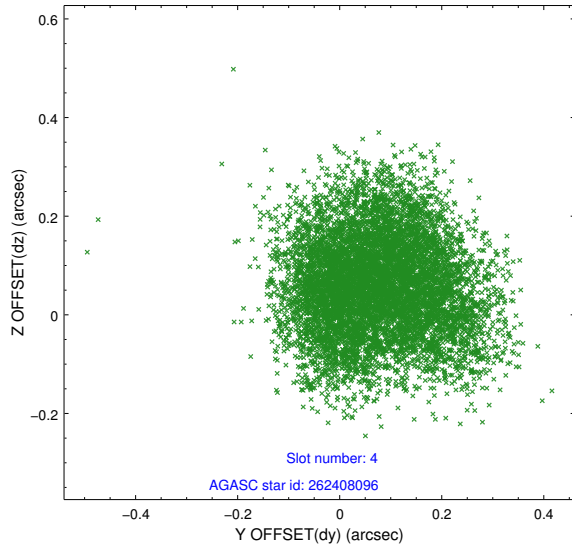
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	3722	0.322	-0.273	0.018	0.039	0.000000	0.000000	925.05	-1241.87
1	FID		ACIS-I-5	7.24	3722	-0.558	0.203	0.015	0.021	0.000000	0.000000	-1823.76	655.84
2	FID		ACIS-I-6	7.29	3722	0.146	0.138	0.017	0.025	0.000000	0.000000	390.11	1300.62
3	GUIDE	used	262407760	9.88	7440	0.062	0.163	0.281	0.425	206.566773	26.577263	302.71	-1948.67
4	GUIDE	used	262408096	9.33	7440	0.072	0.057	0.150	0.233	207.011678	26.515421	118.75	-510.83
5	GUIDE	used	262408936	9.64	7440	0.169	0.080	0.190	0.327	207.154731	26.726554	-739.56	-280.41
6	GUIDE	used	262411960	9.64	7429	-0.015	-0.254	0.141	0.225	207.327895	25.881727	2021.85	1109.96
7	GUIDE	used	262409624	10.02	7438	-0.332	-0.065	0.330	0.473	207.610037	27.074851	-2355.16	768.11

2.4 Star Slots

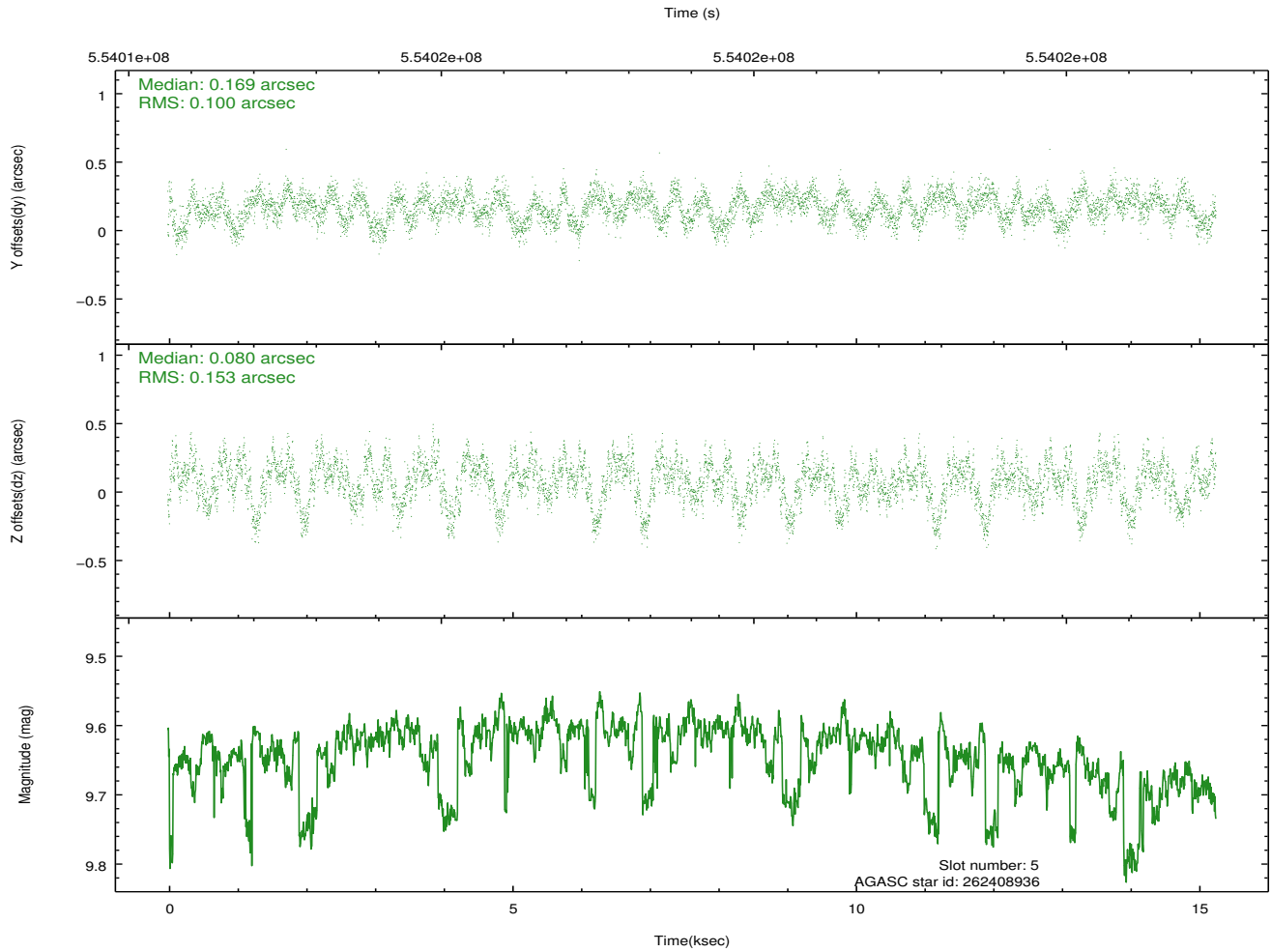
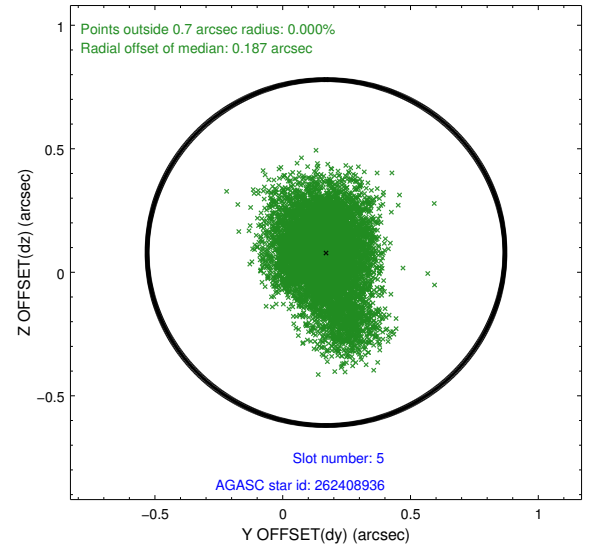
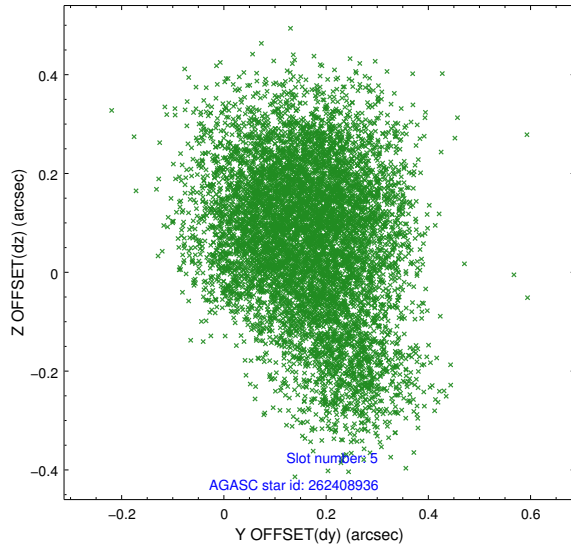
2.4.1 Slot 3



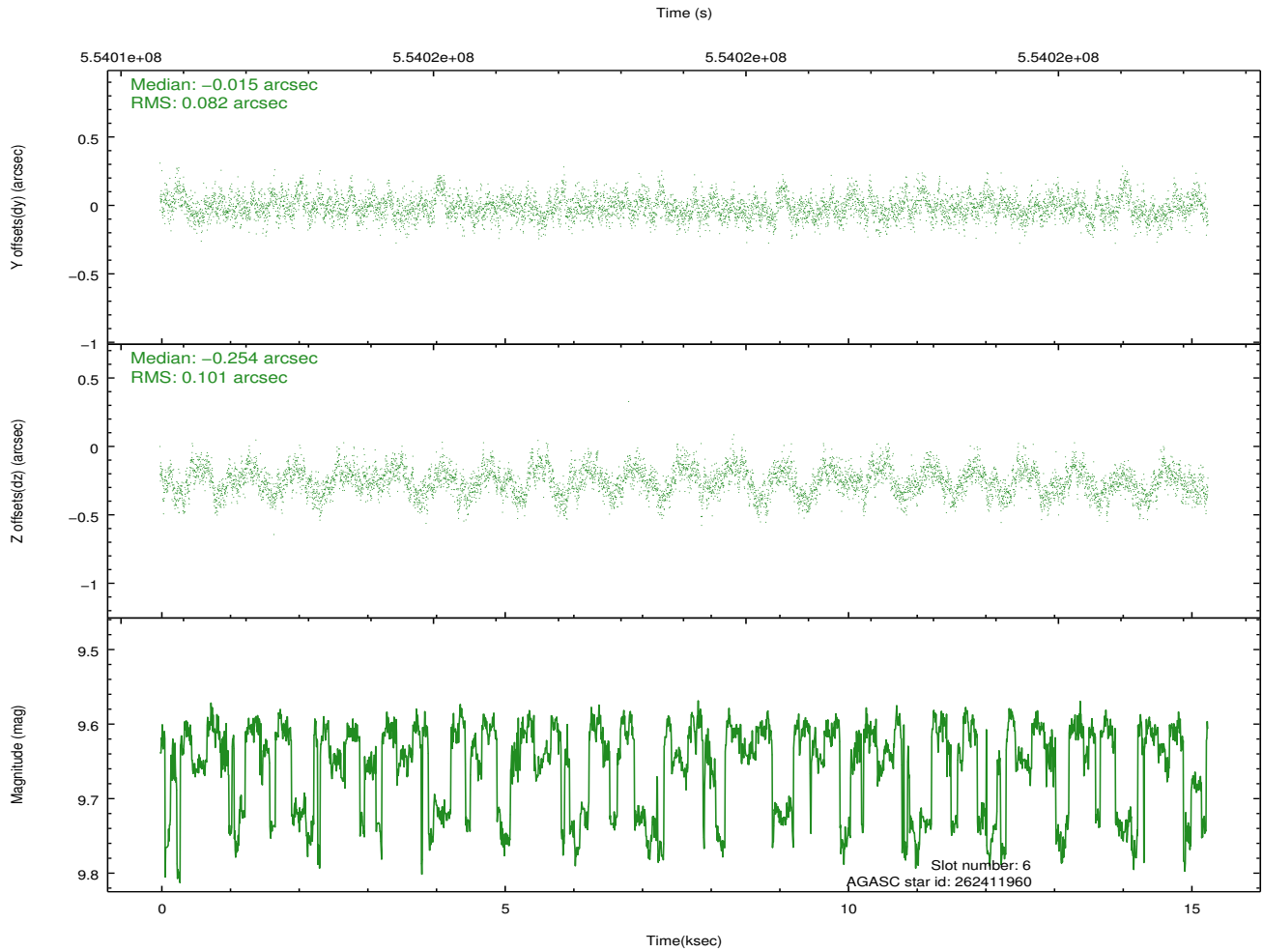
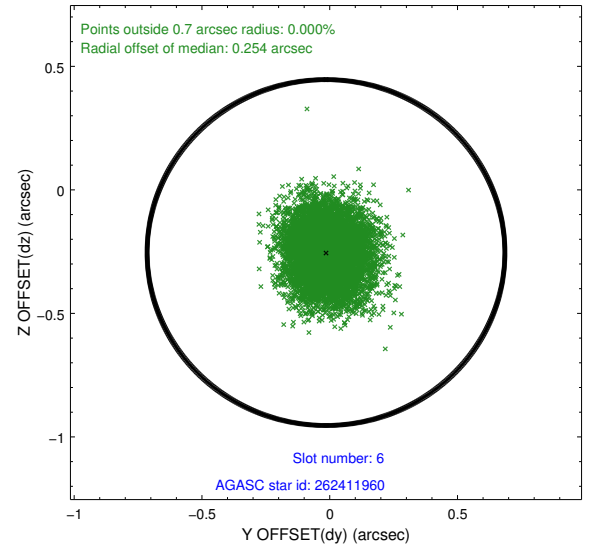
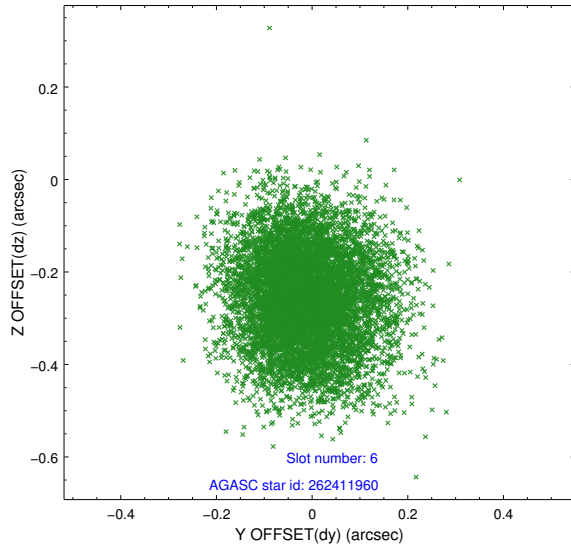
2.4.2 Slot 4



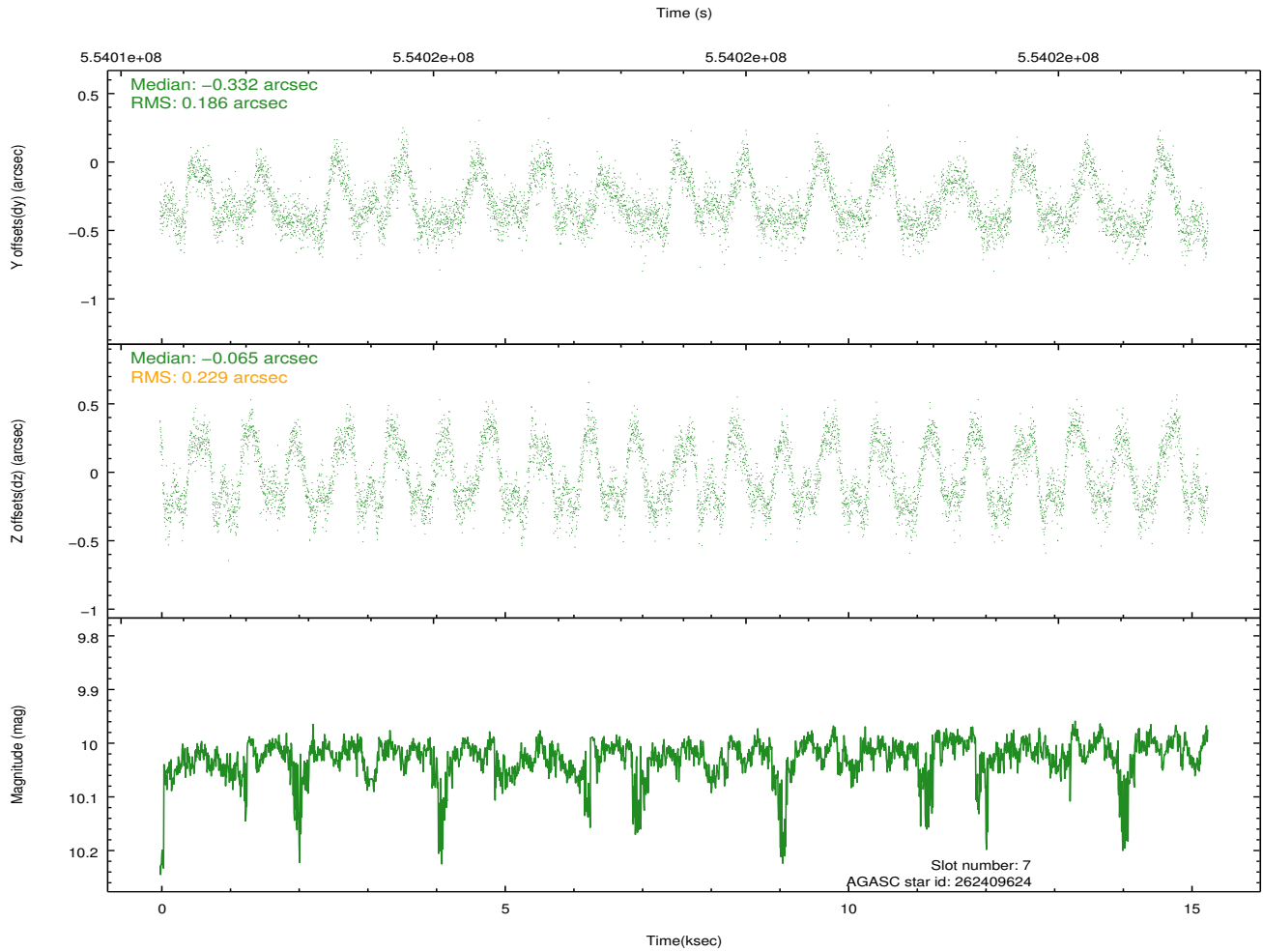
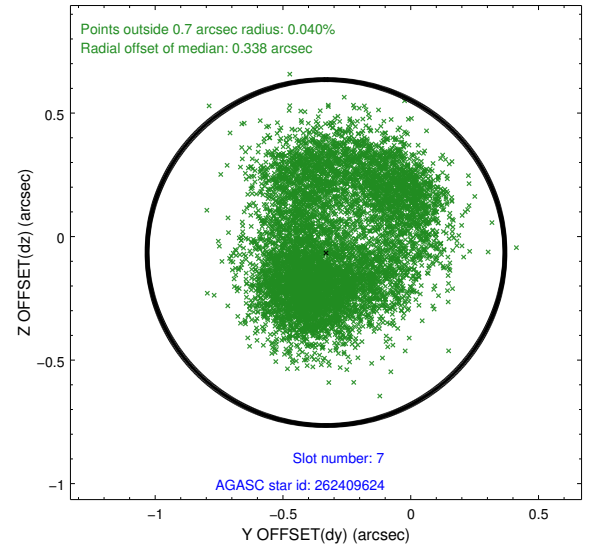
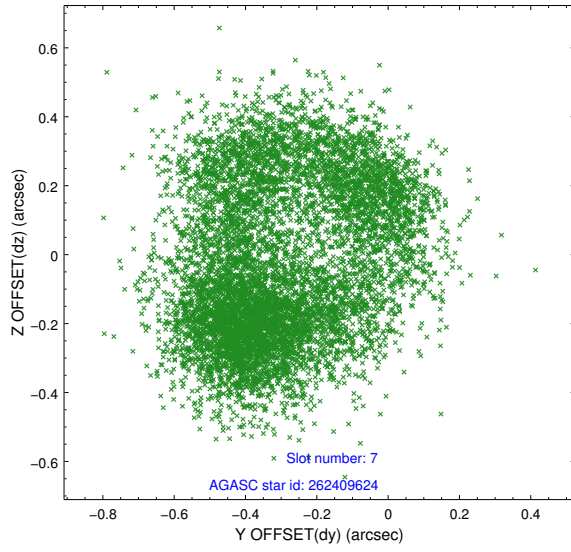
2.4.3 Slot 5



2.4.4 Slot 6

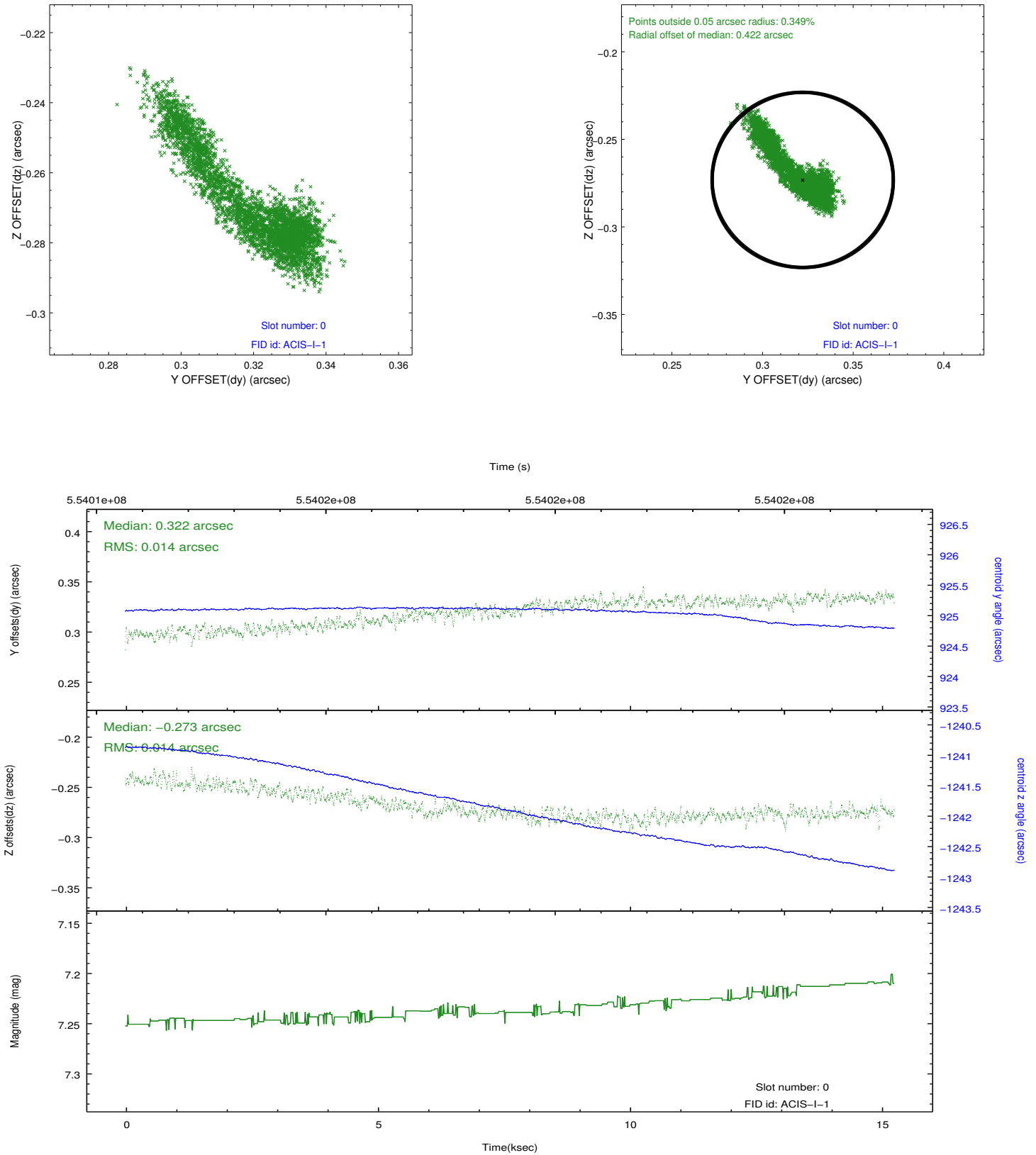


2.4.5 Slot 7

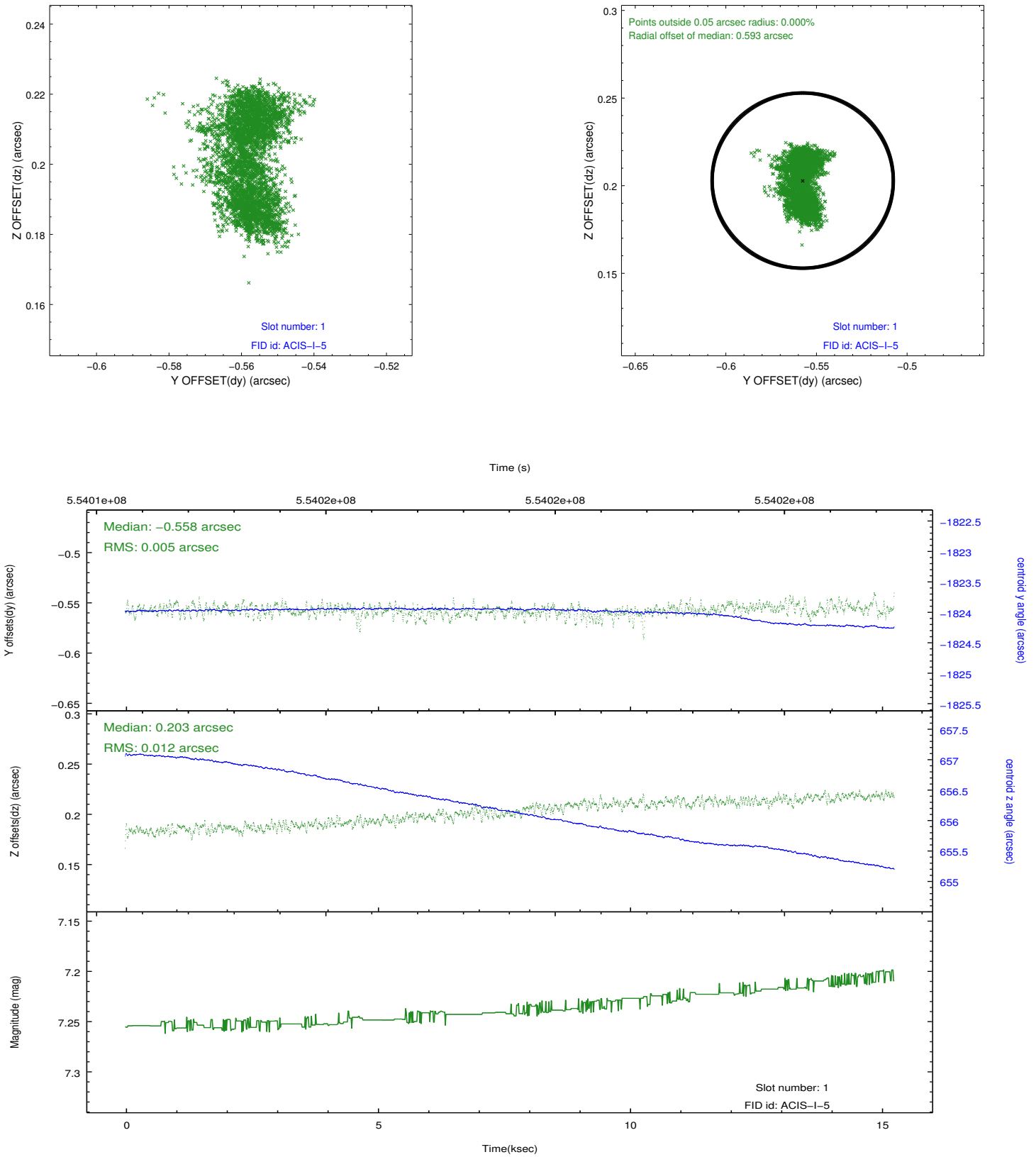


2.5 FID Slots

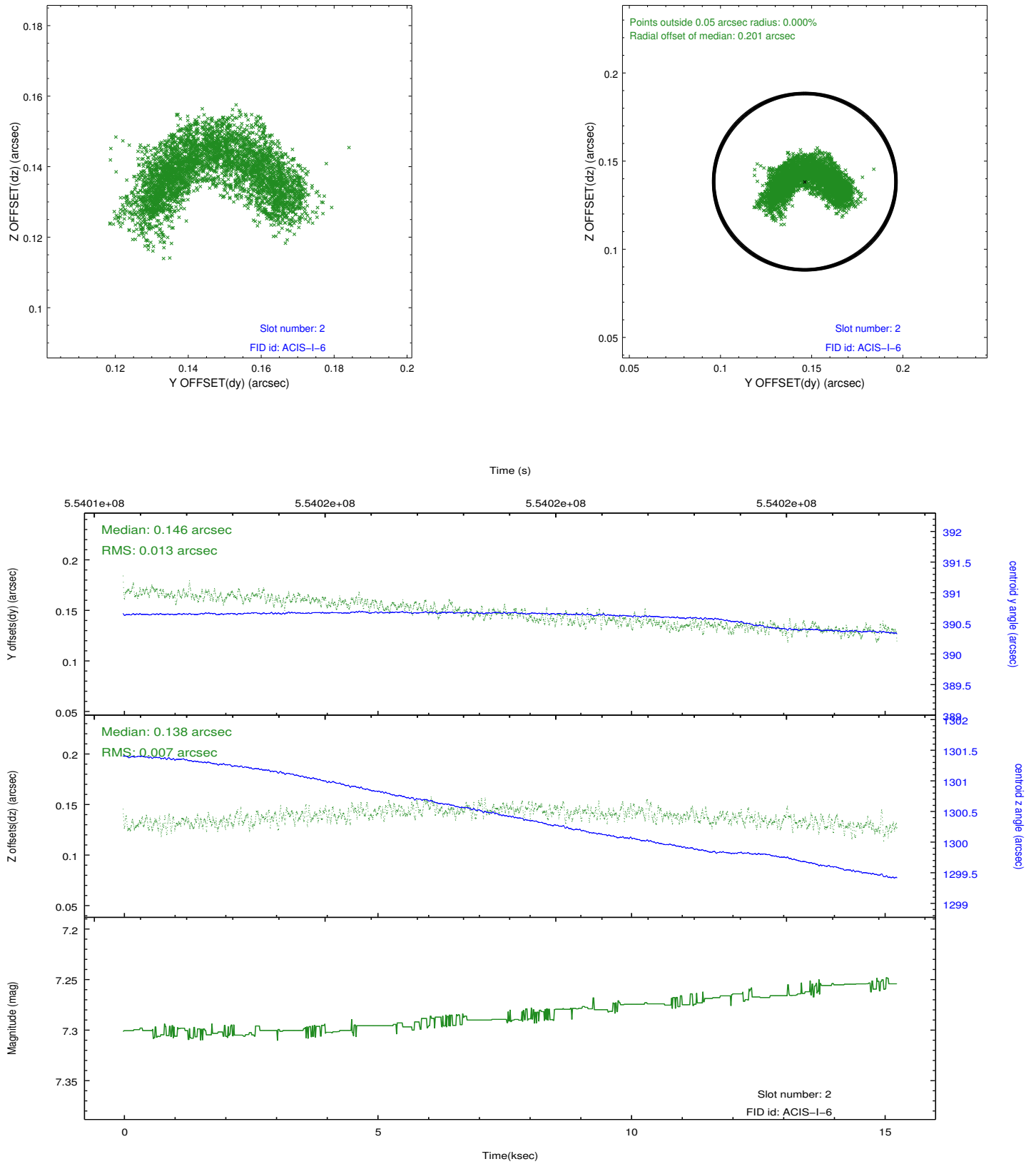
2.5.1 Slot 0



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)	2015.07.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.075300116062

A.2 Comments