

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18847 - L2 Version 1
Chandra X-Ray Center

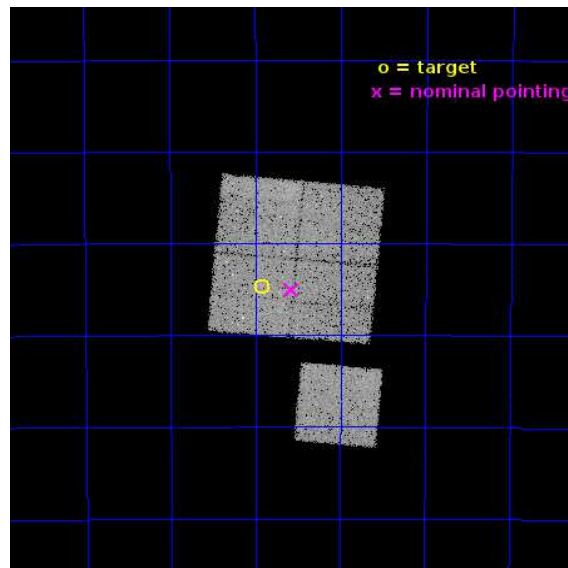
L2 Processing Date : May 15 2016

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1 Front

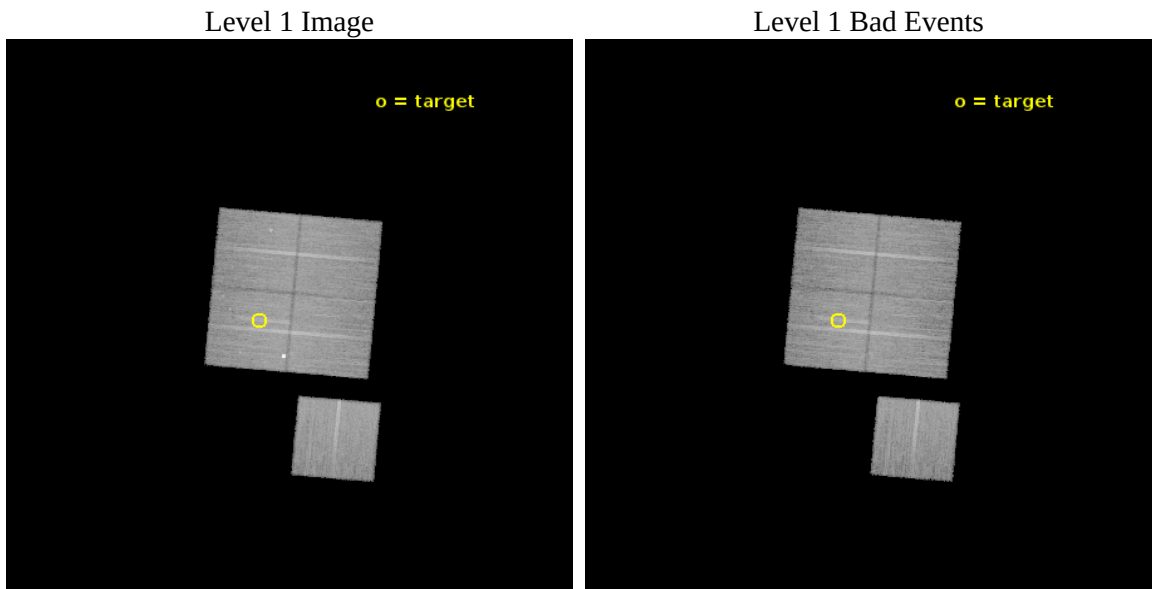
seq_num	801492	Sequence number
obs_id	18847	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Michael McDonald	Principal investigator
object	SPT-CLJ0313-5334	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	48.480833	Observer's specified target RA [deg]
dec_targ	-53.578111	Observer's specified target Dec [deg]
ra_nom	48.394386203745	Nominal RA [deg]
dec_nom	-53.584245351954	Nominal Dec [deg]
roll_nom	185.13910658289	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23370.859279156	Sum of GTIs [s]
livetime	23065.501797297	Livetime [s]
ontime0	23367.718209028	Sum of GTIs [s]
ontime1	23370.859279156	Sum of GTIs [s]
ontime2	23370.859129548	Sum of GTIs [s]
ontime3	23370.859279156	Sum of GTIs [s]
ontime6	23370.85918963	Sum of GTIs [s]
l2events	70025	Number of level 2 events



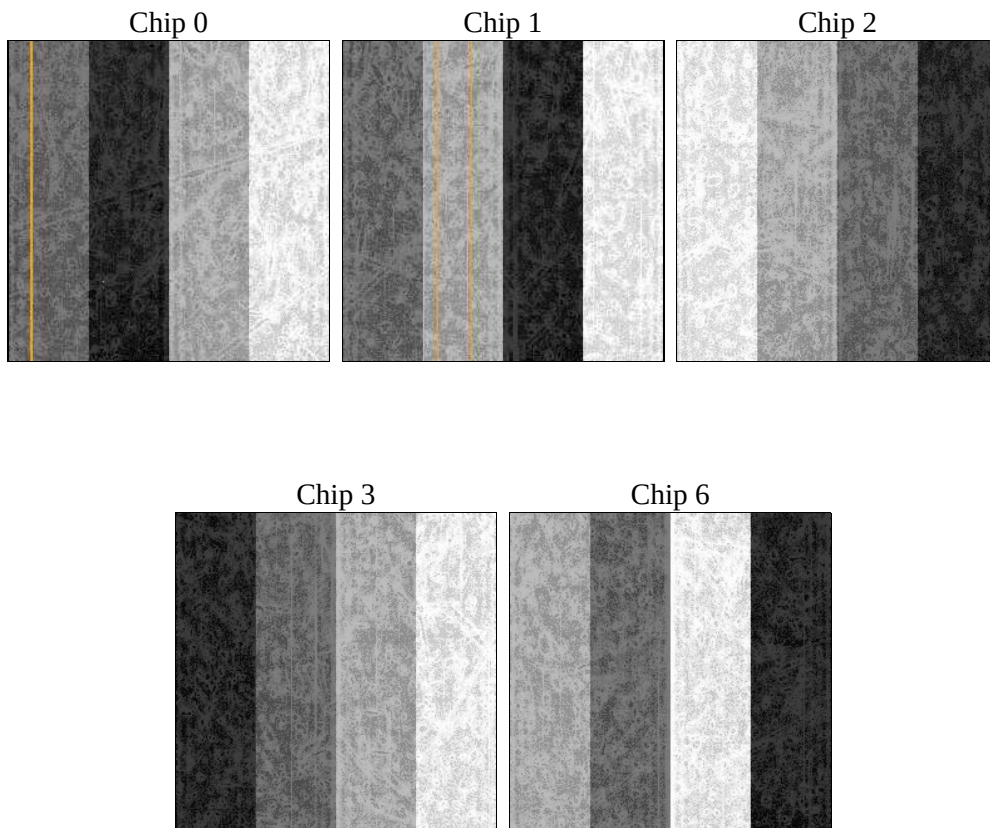
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23300.739000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	23370.859279156	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	23367.718209028	Sum of GTIs [s]
date	2016-05-15T11:32:37	Date and time of file creation	ontime1	23370.859279156	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	23370.859129548	Sum of GTIs [s]
			ontime3	23370.859279156	Sum of GTIs [s]
			ontime6	23370.85918963	Sum of GTIs [s]
			l1events	741986	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	138772	140158	151285	162807	148964
rejected events	122549	121632	135618	139580	132165
rejected %	88%	86%	89%	85%	88%

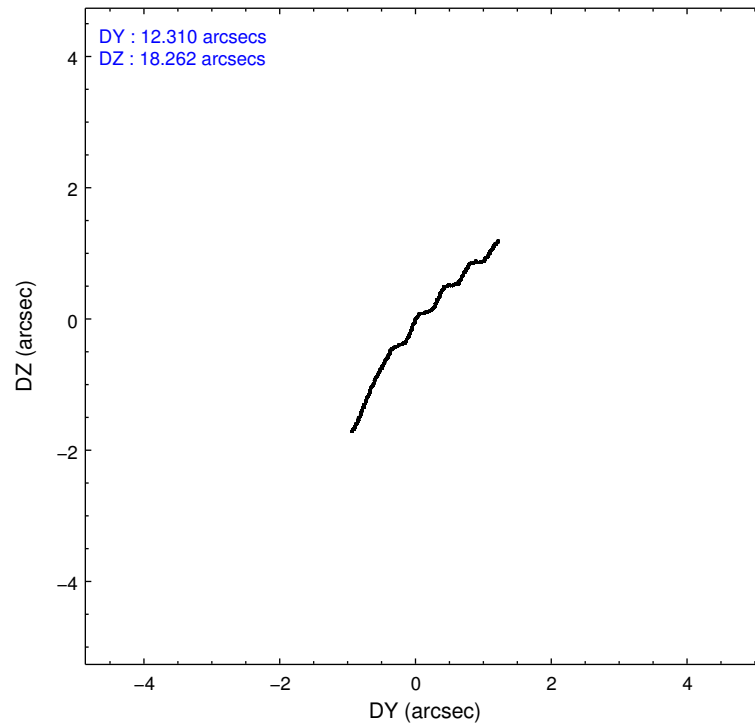
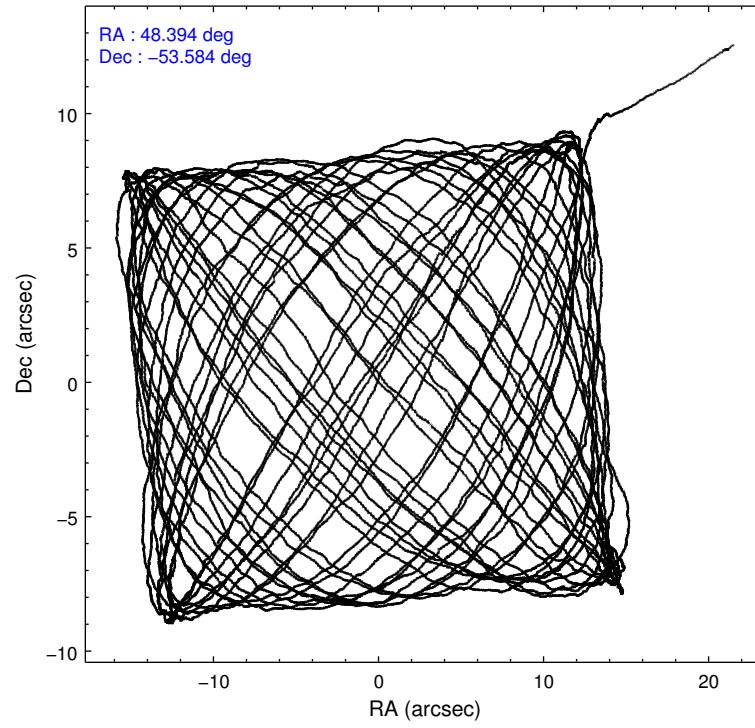
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5392	6208	5641	12812	5450
	3%	4%	3%	7%	3%
grade 1 events	77	59	101	137	66
	0%	0%	0%	0%	0%
grade 2 events	4089	4758	3732	3614	3956
	2%	3%	2%	2%	2%
grade 3 events	1704	1738	1598	1718	1627
	1%	1%	1%	1%	1%
grade 4 events	1604	1756	1600	1695	1664
	1%	1%	1%	1%	1%
grade 5 events	6150	6358	5674	7037	6620
	4%	4%	3%	4%	4%
grade 6 events	3436	4072	3098	3391	4102
	2%	2%	2%	2%	2%
grade 7 events	116320	115209	129841	132403	125479
	83%	82%	85%	81%	84%

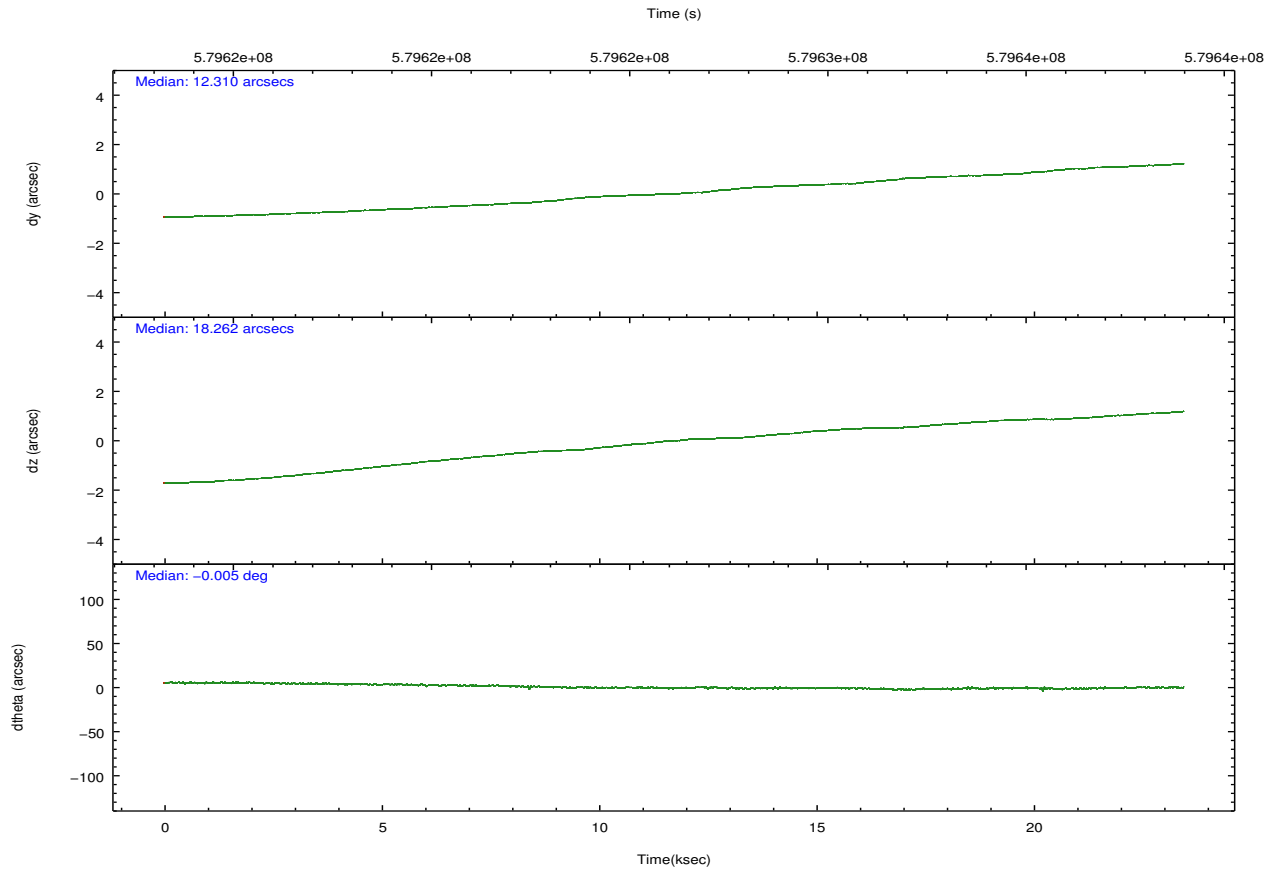
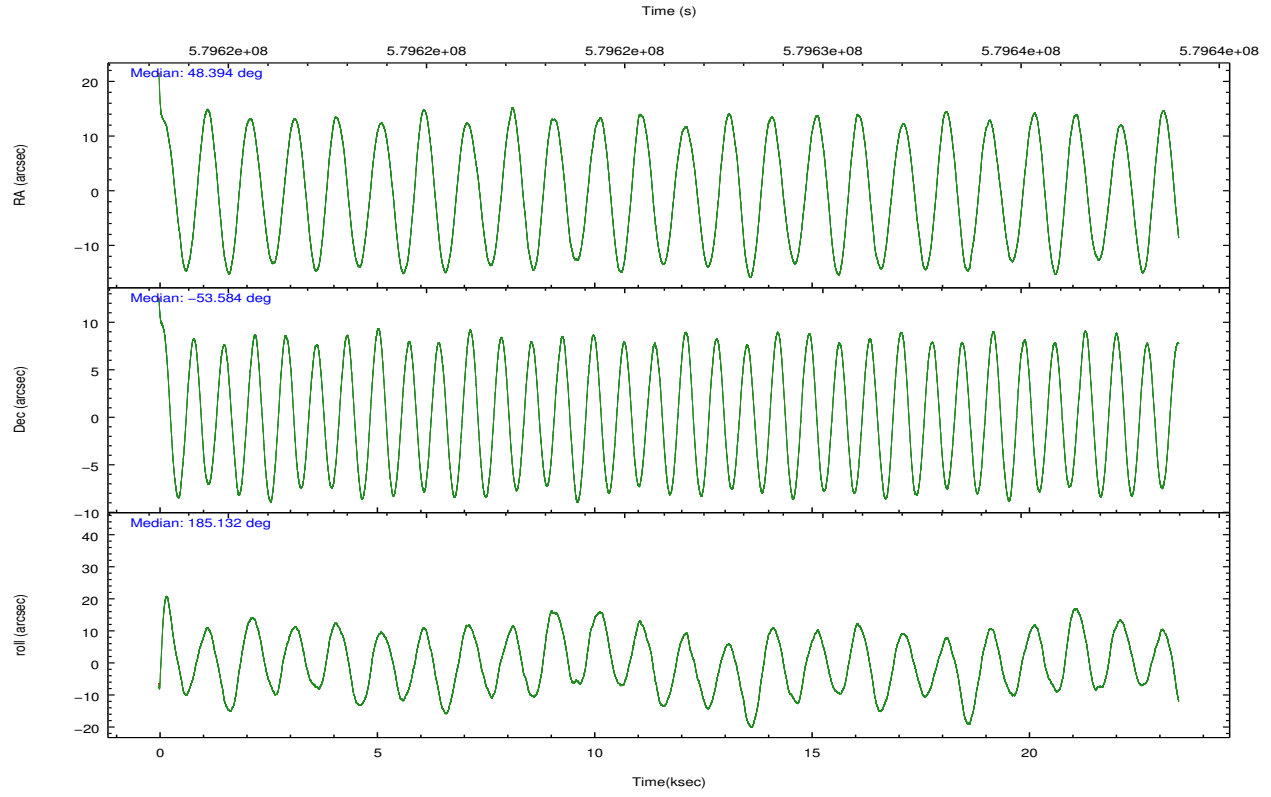
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	48.432250	48.39438620374499
[deg] Pointing Dec	-53.568278	-53.58424535195402
[deg] Pointing Roll	184.960903	185.1391065828888
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.842463	-225.8433433320239
[mm] SIM translation stage offset	-7.75	-7.749109670905796
[s] Observation start time (MET)	579614531.184000	579613256.38765
Observation start date	2016-05-14T12:01:03	2016-05-14T11:40:56
[s] Observation end time (MET)	579637832.184000	579638060.3640701
Observation end date	2016-05-14T18:29:24	2016-05-14T18:34:20
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



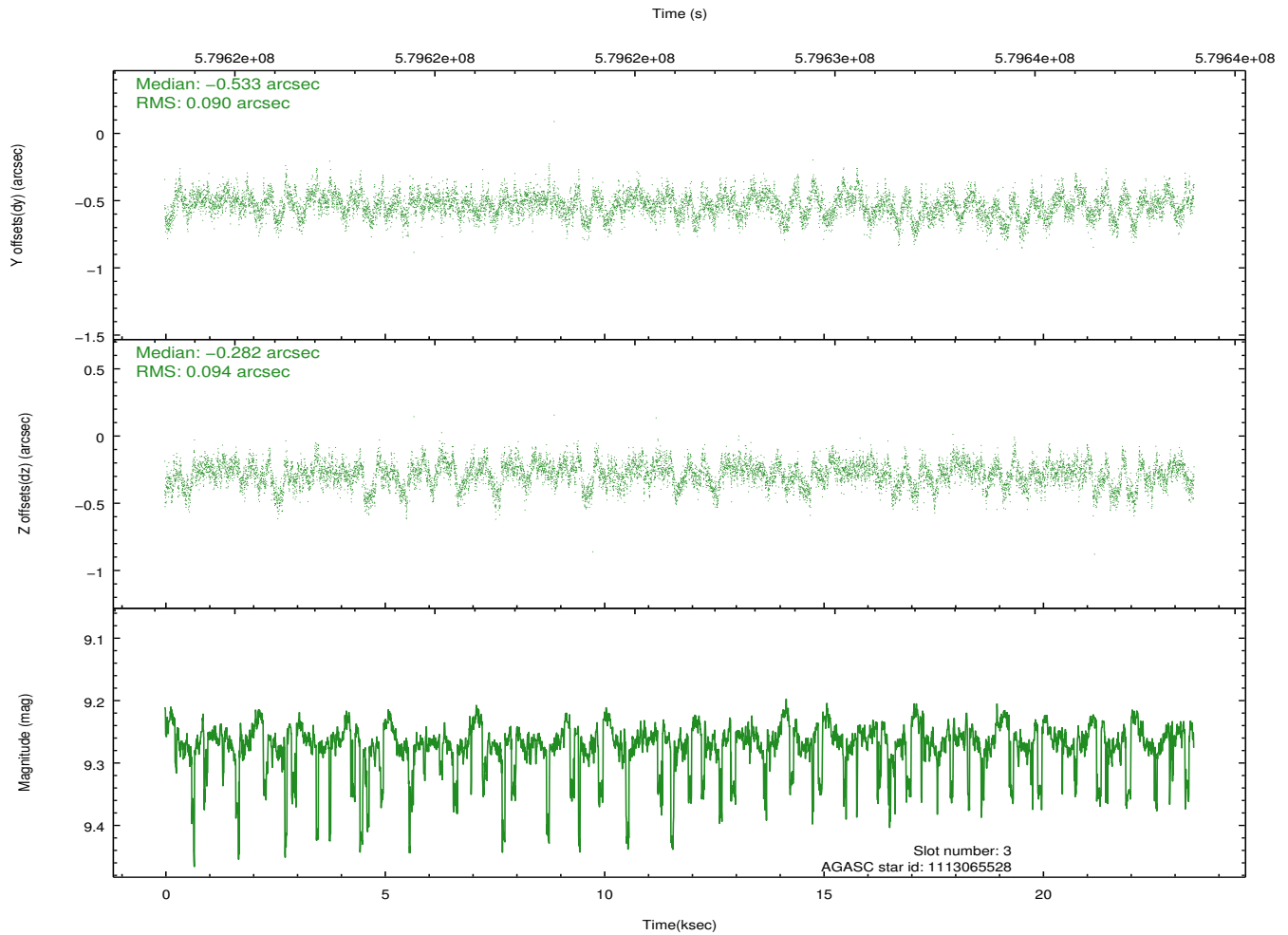
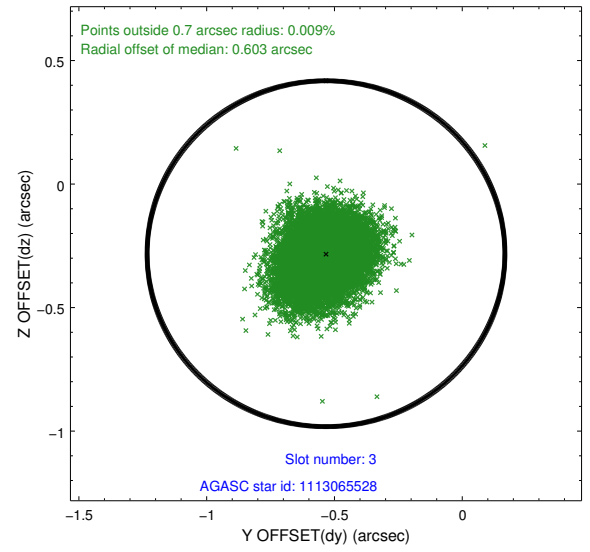
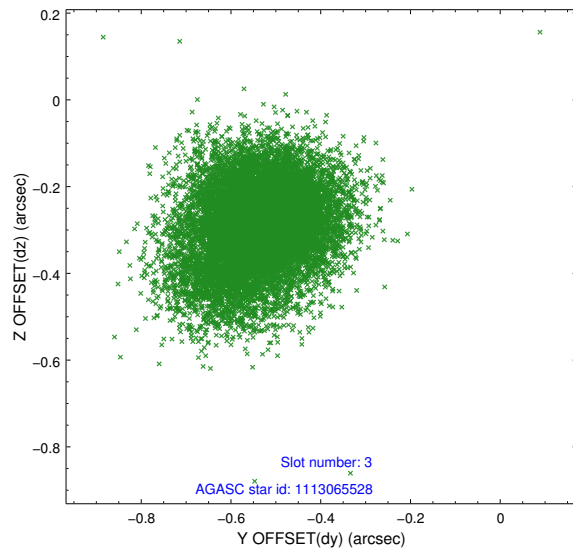


Slot Statistics

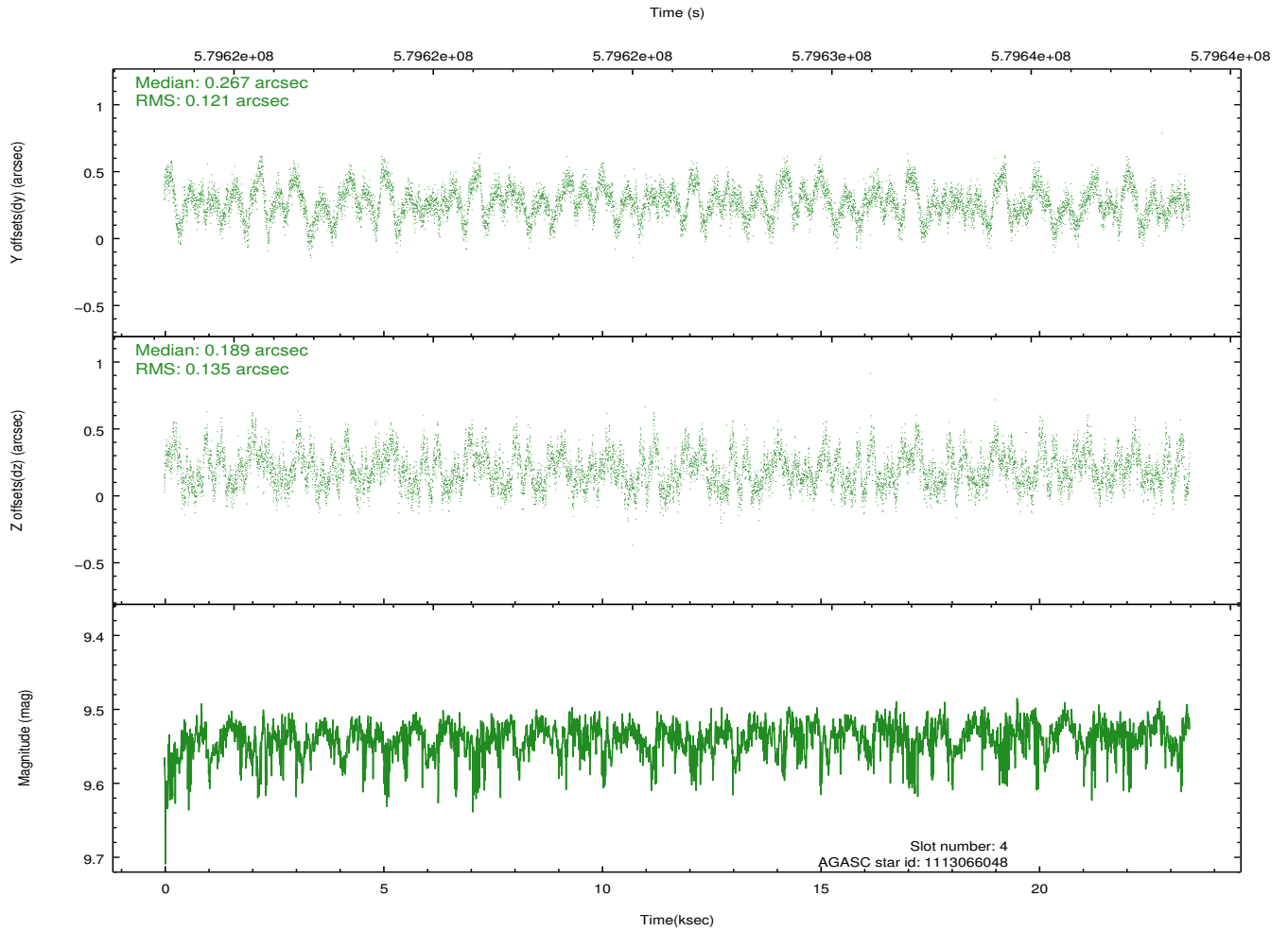
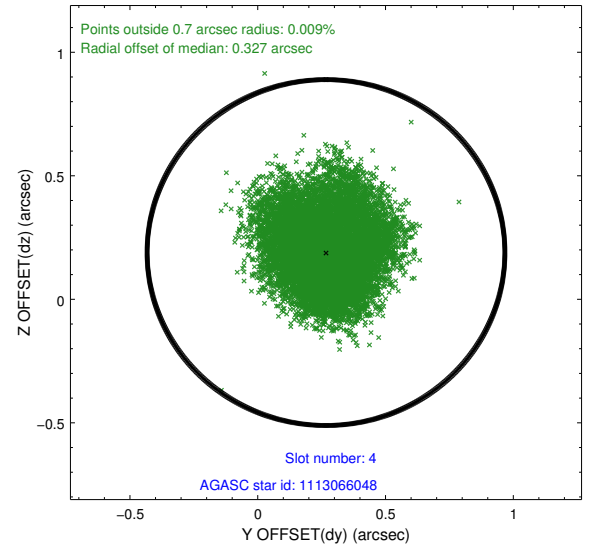
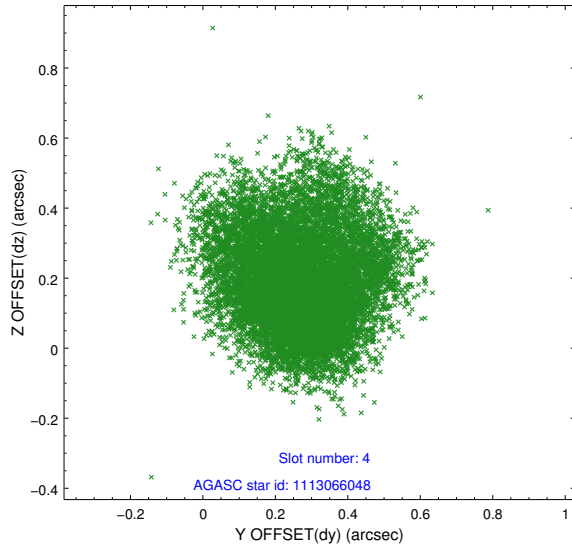
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	5722	0.139	-0.112	0.030	0.065	0.000000	0.000000	927.22	-1000.95
1	FID		ACIS-I-5	7.24	5722	-0.357	0.093	0.025	0.031	0.000000	0.000000	-1821.41	896.51
2	FID		ACIS-I-6	7.27	5722	0.124	0.097	0.030	0.041	0.000000	0.000000	392.46	1541.30
3	GUIDE	used	1113065528	9.27	11424	-0.533	-0.282	0.137	0.226	47.504672	-53.789515	2034.78	636.04
4	GUIDE	used	1113066048	9.54	11423	0.267	0.189	0.197	0.304	48.443285	-53.325384	-99.20	-868.80
5	GUIDE	used	1113195256	9.04	11437	0.169	0.476	0.238	0.351	49.190556	-52.928407	-1836.54	-2141.77
6	GUIDE	used	1113203144	9.85	11431	-0.009	-0.380	0.383	0.529	49.210650	-54.091254	-1474.10	2026.39
7	GUIDE	used	1113197496	10.12	11415	0.135	-0.036	0.293	0.446	49.578432	-53.876647	-2326.63	1335.87

2.4 Star Slots

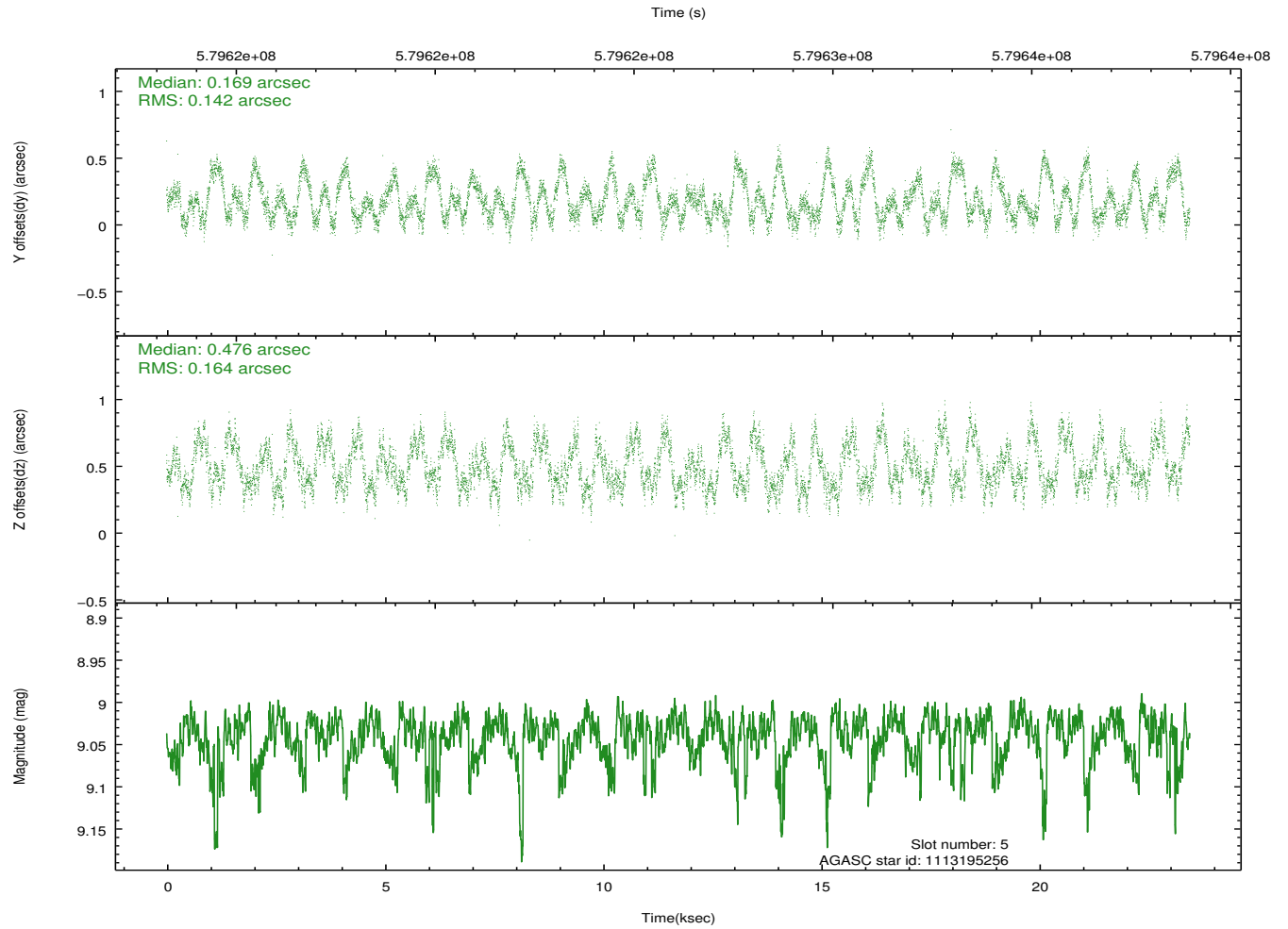
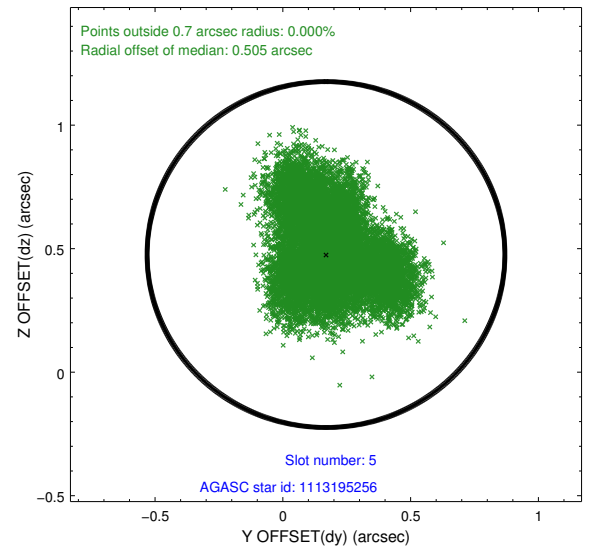
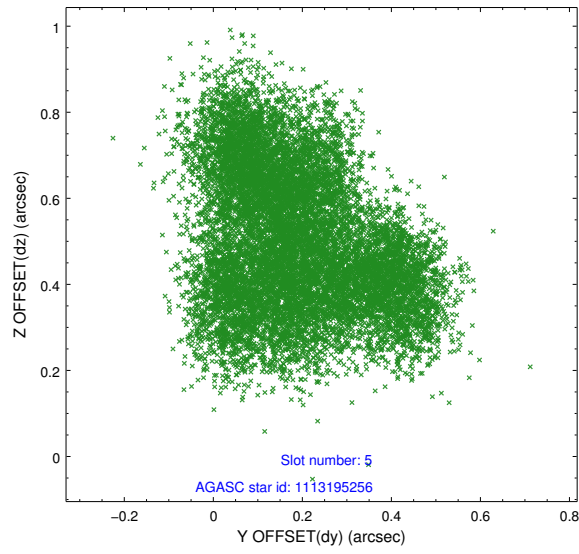
2.4.1 Slot 3



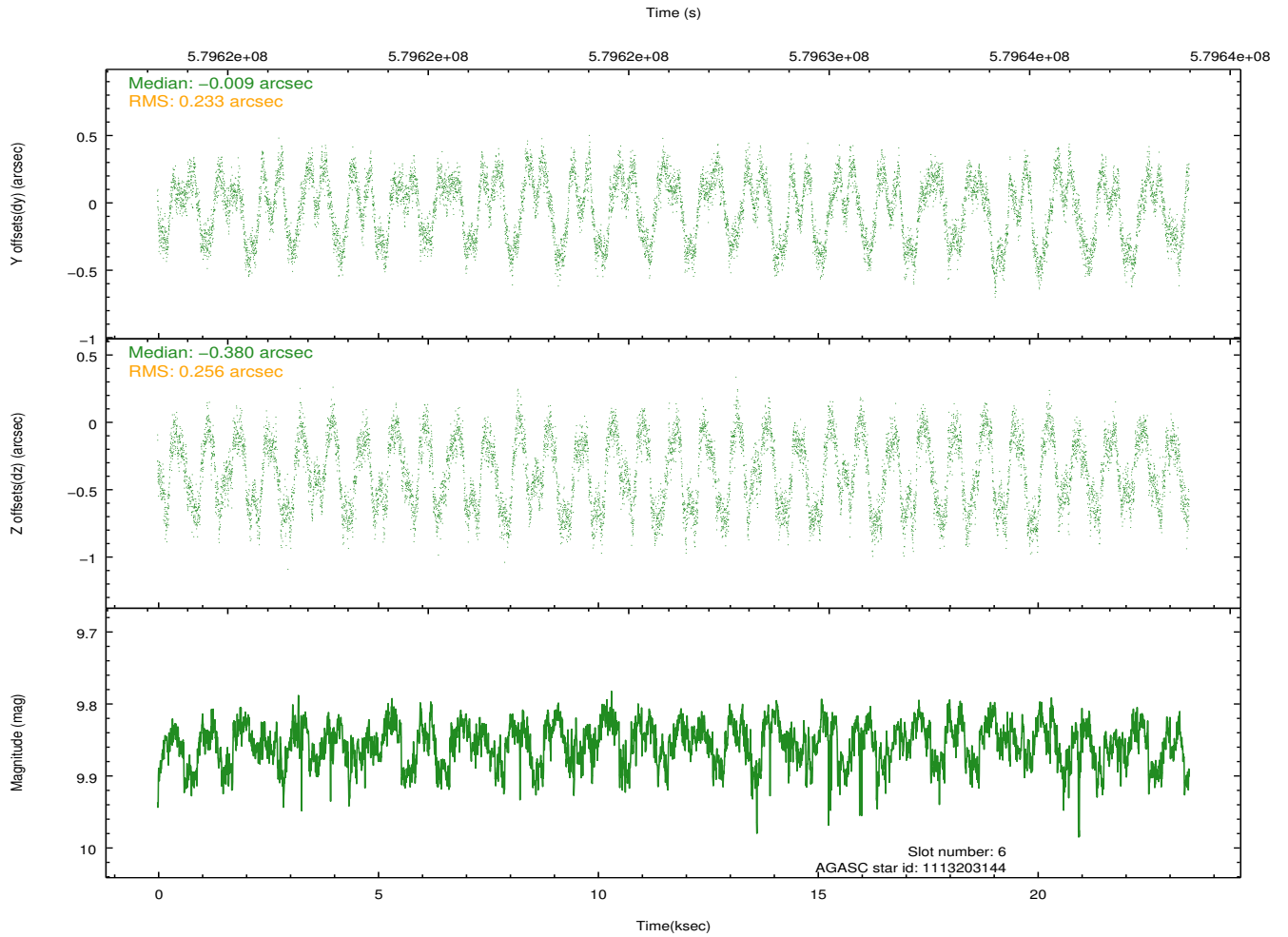
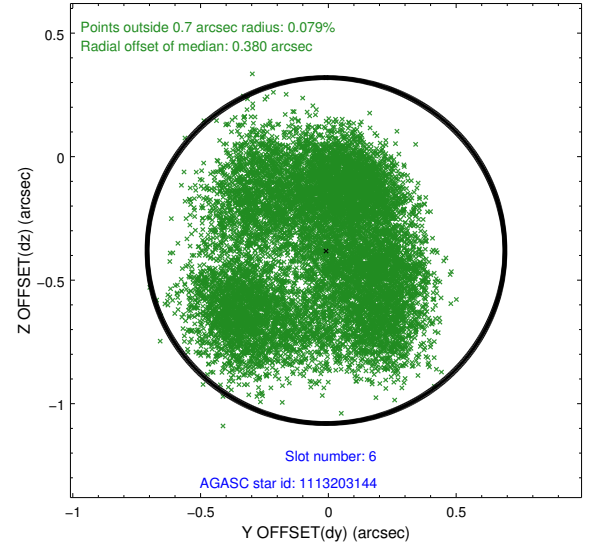
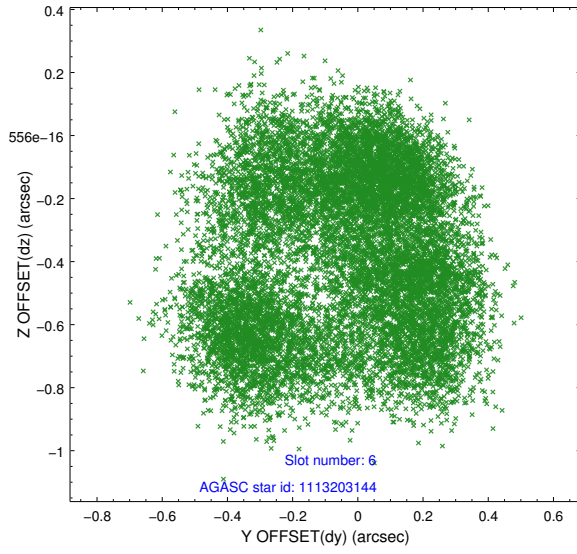
2.4.2 Slot 4



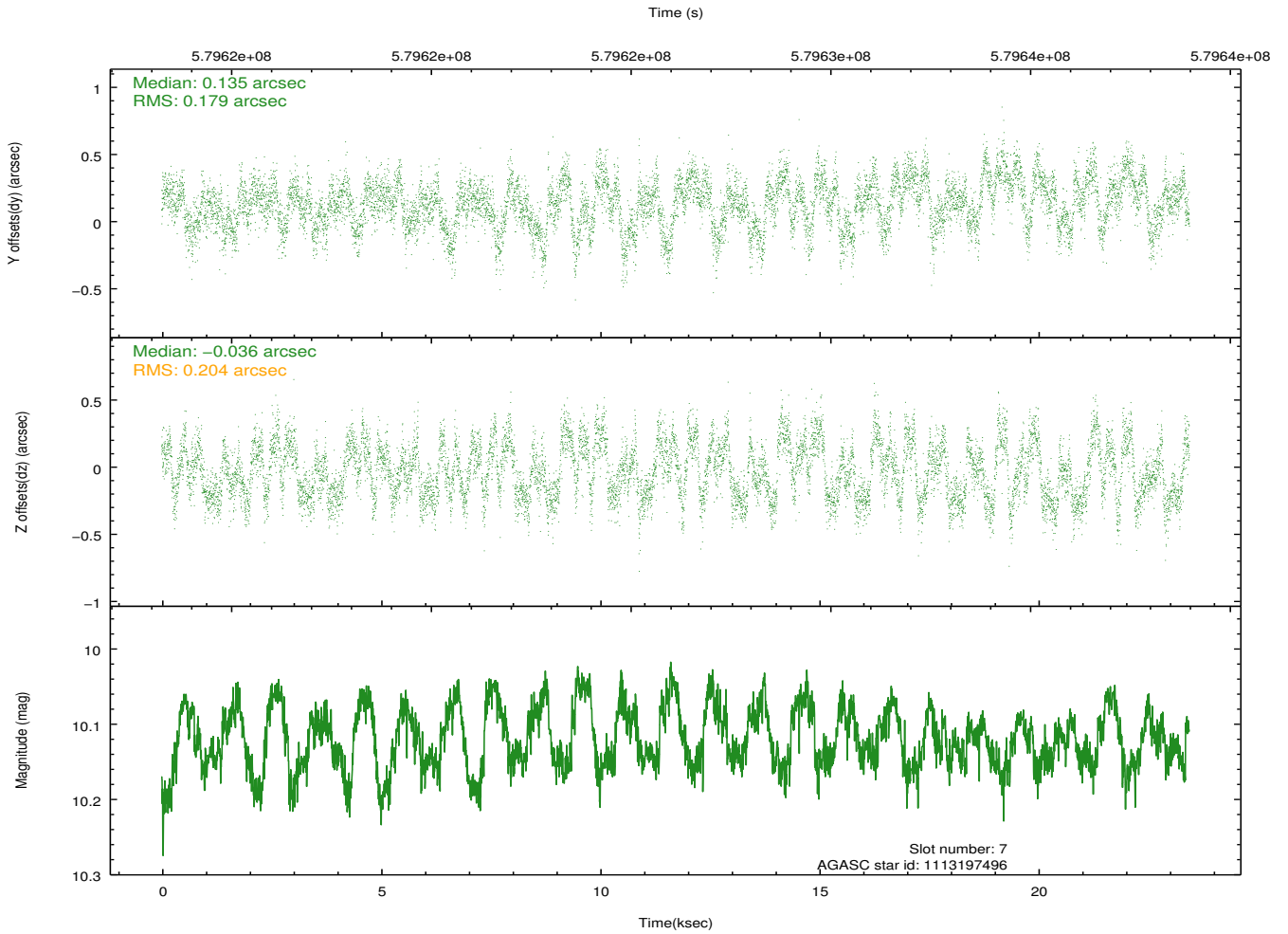
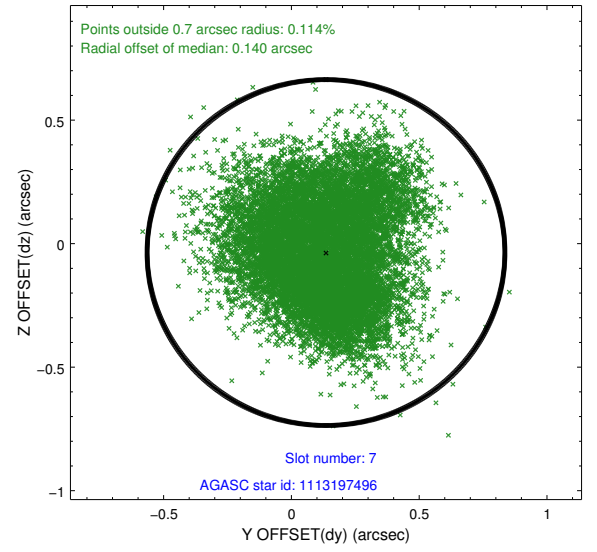
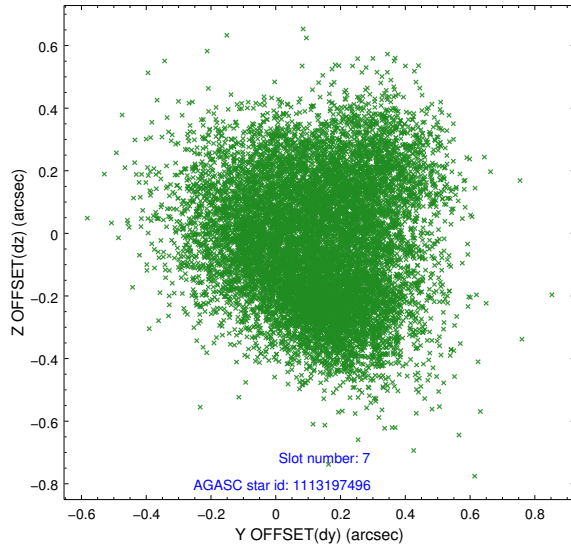
2.4.3 Slot 5



2.4.4 Slot 6

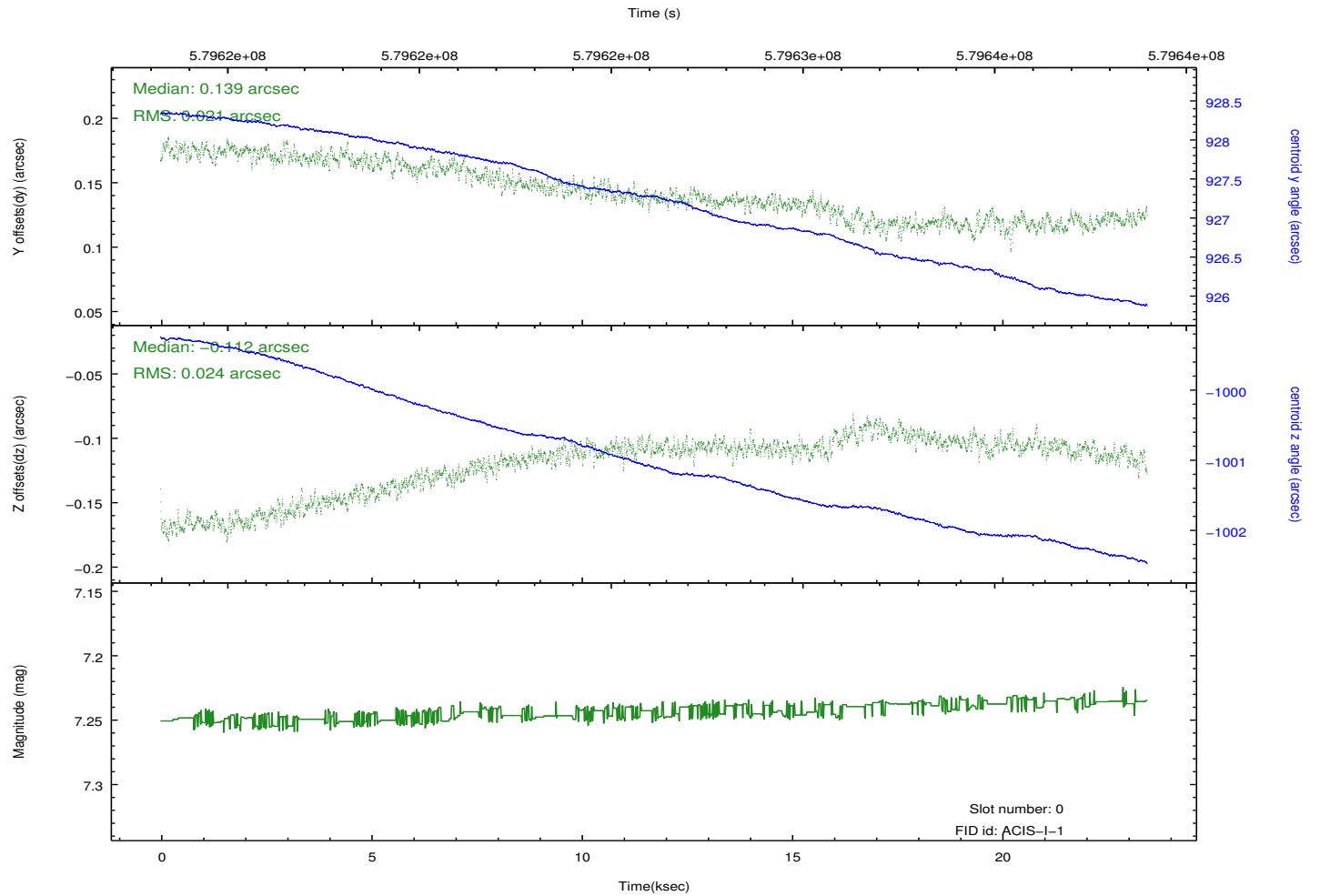
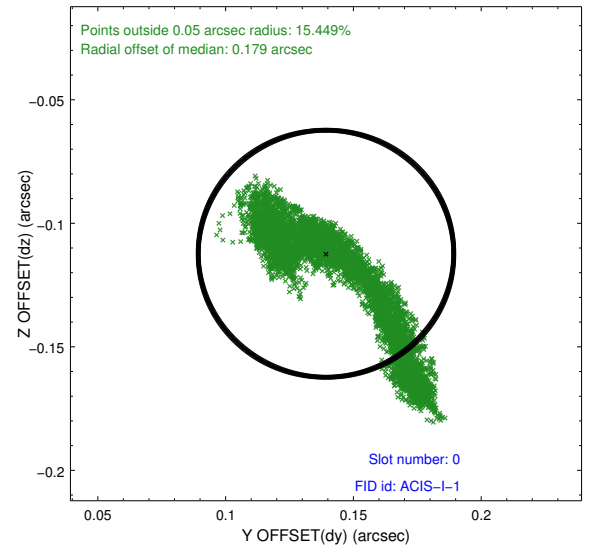
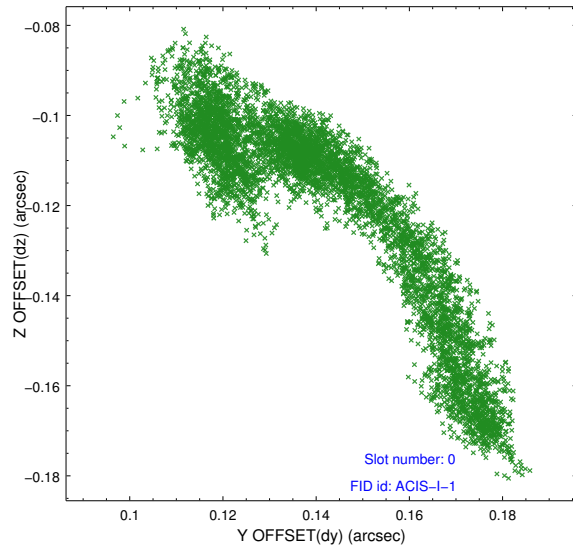


2.4.5 Slot 7

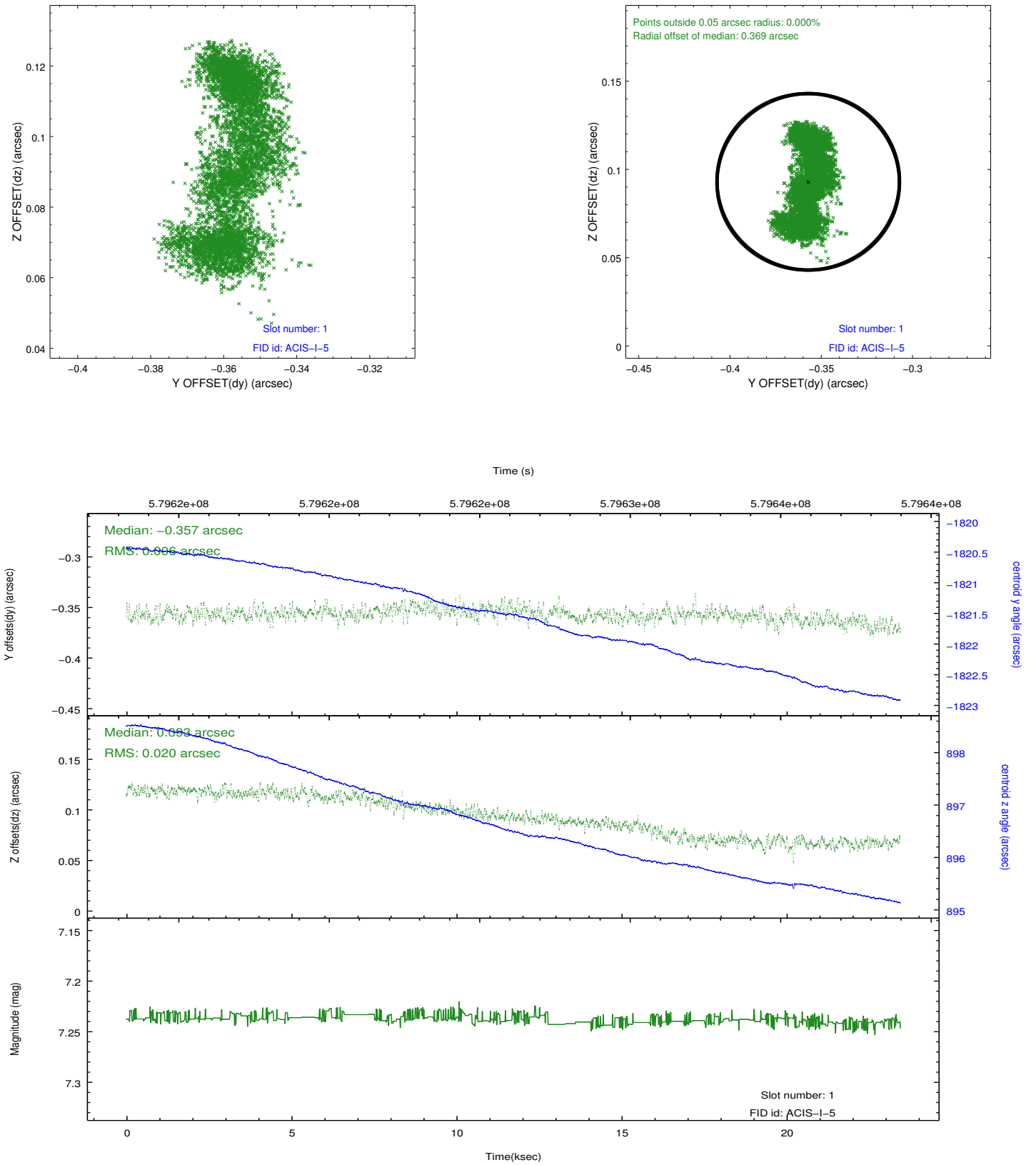


2.5 FID Slots

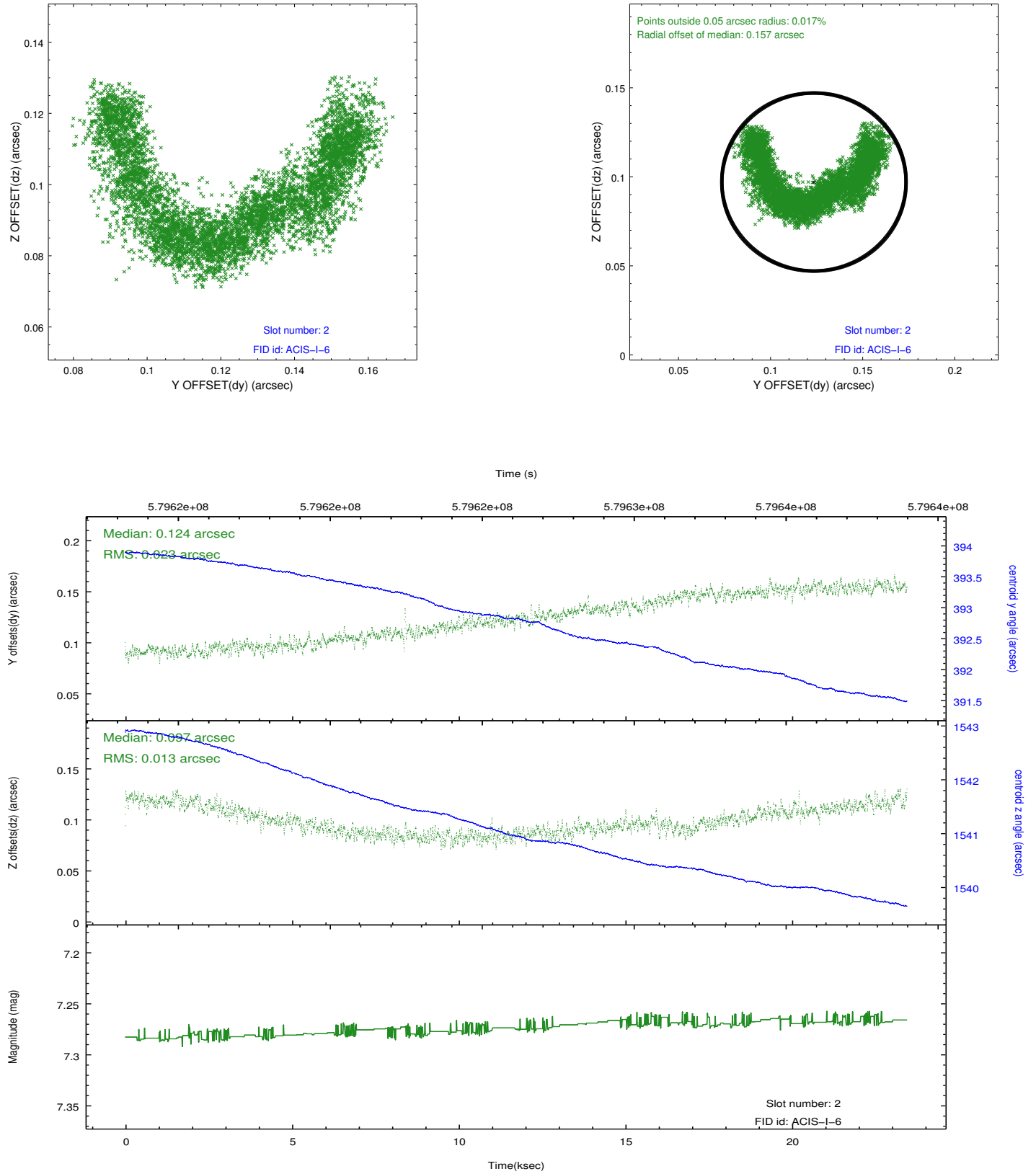
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.370859279156

A.2 Comments