

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16998 - L2 Version 1
Chandra X-Ray Center

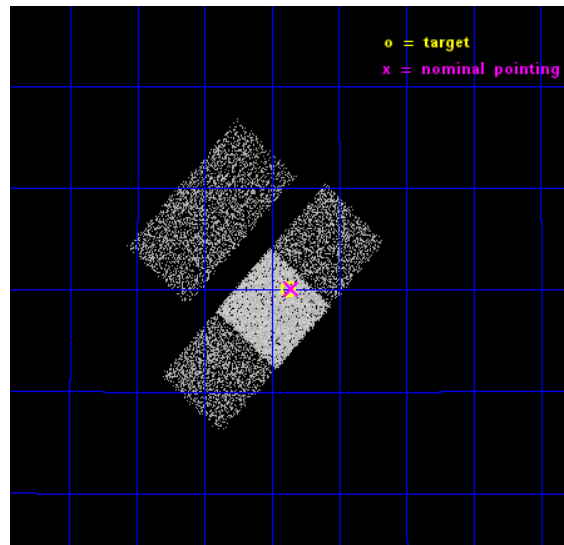
L2 Processing Date : Mar 23 2015

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

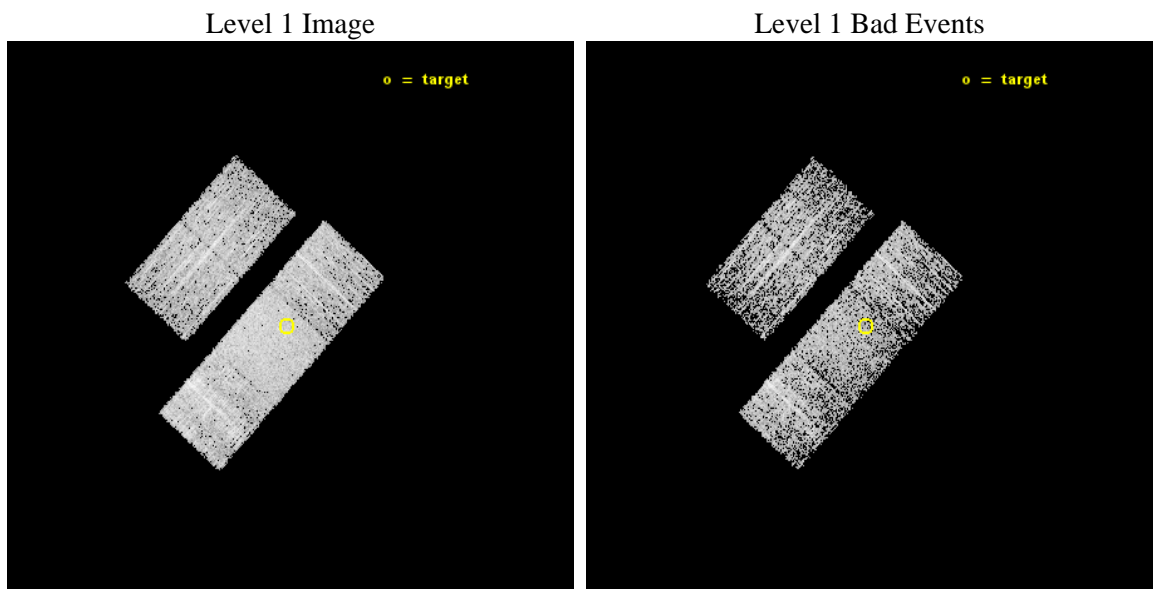
seq_num	601191	Sequence number
obs_id	16998	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC8516	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.969167	Observer's specified target RA [deg]
dec_targ	20.001167	Observer's specified target Dec [deg]
ra_nom	202.96356809241	Nominal RA [deg]
dec_nom	20.001944171723	Nominal Dec [deg]
roll_nom	132.35666996239	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4465.6941674948	Sum of GTIs [s]
livetime	4407.3465856002	Livetime [s]
ontime2	4465.5300074816	Sum of GTIs [s]
ontime3	4465.6120874882	Sum of GTIs [s]
ontime6	4465.6531275511	Sum of GTIs [s]
ontime7	4465.6941674948	Sum of GTIs [s]
ontime8	4465.5710475445	Sum of GTIs [s]
l2events	19632	Number of level 2 events



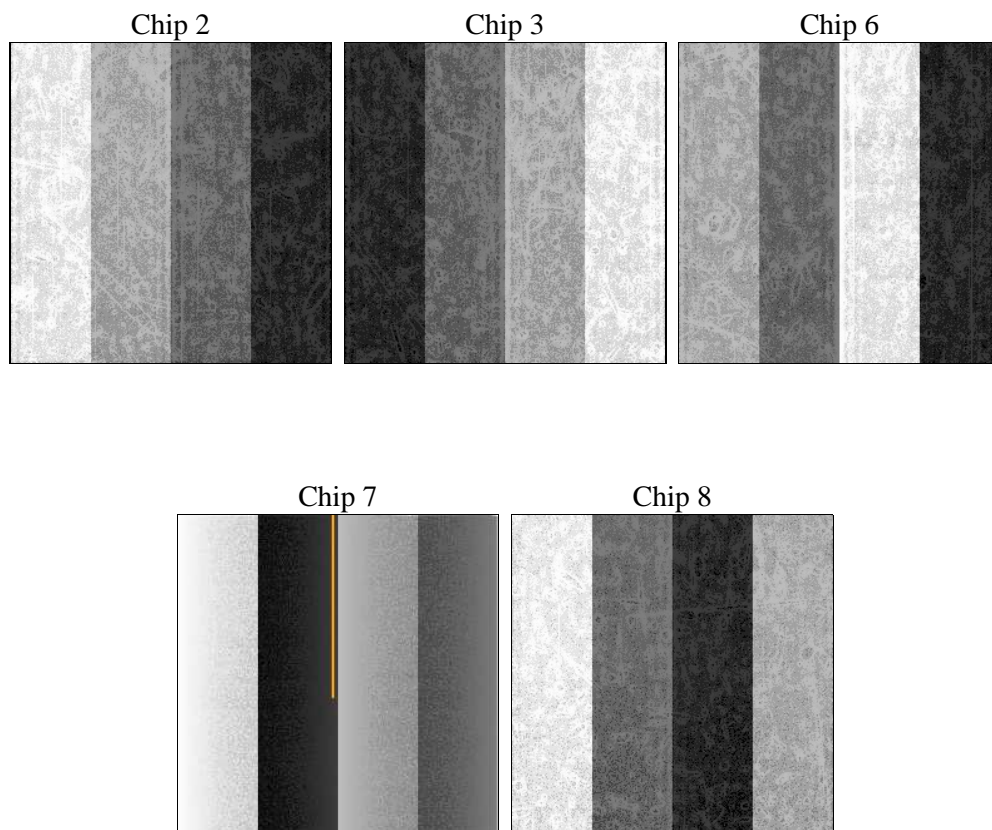
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4400.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	4465.6941674948	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	4465.5300074816	Sum of GTIs [s]
date	2015-03-23T14:41:55	Date and time of file creation	ontime3	4465.6120874882	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4465.6531275511	Sum of GTIs [s]
			ontime7	4465.6941674948	Sum of GTIs [s]
			ontime8	4465.5710475445	Sum of GTIs [s]
			l1events	108903	Number of level 1 events

2.1.4 Events

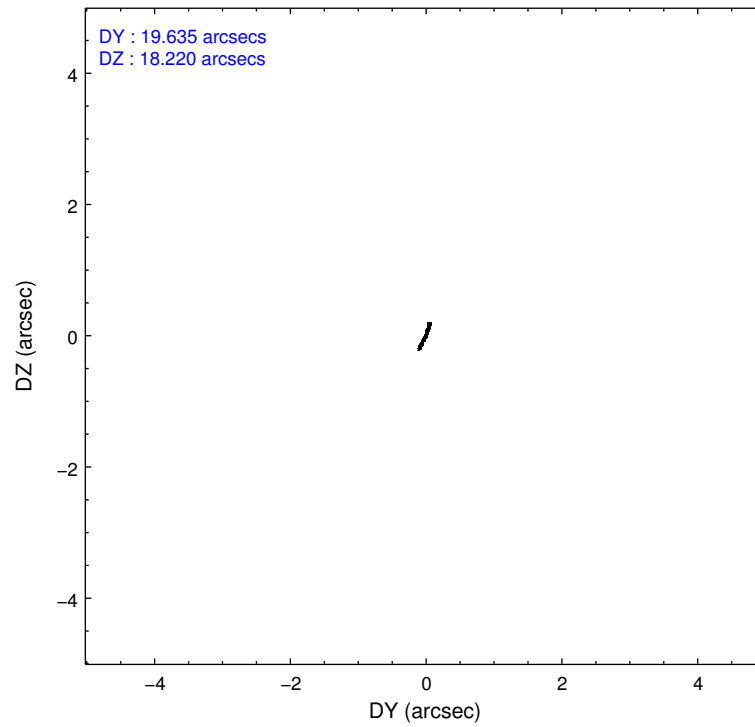
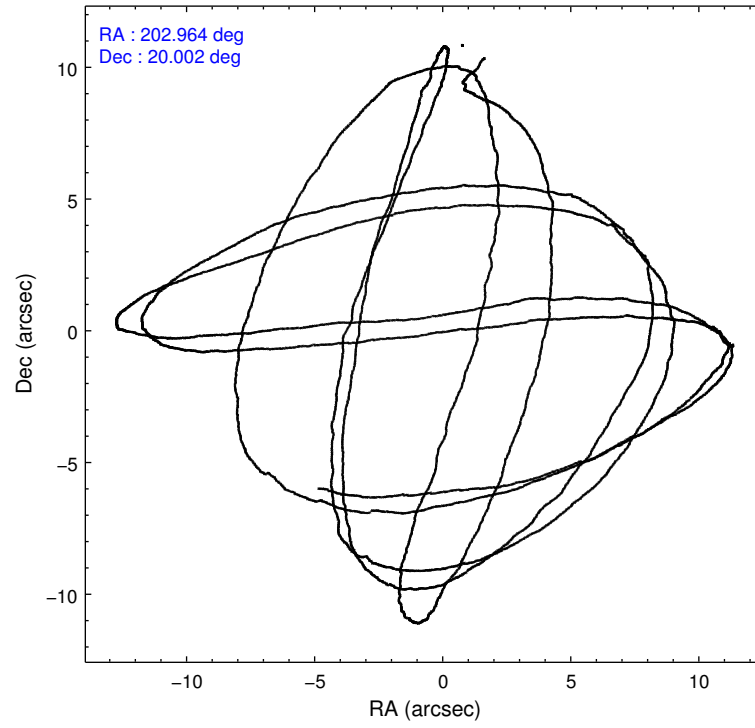
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	18029	18828	19348	27294	25404
rejected events	15822	16584	16953	15632	18831
rejected %	87%	88%	87%	57%	74%

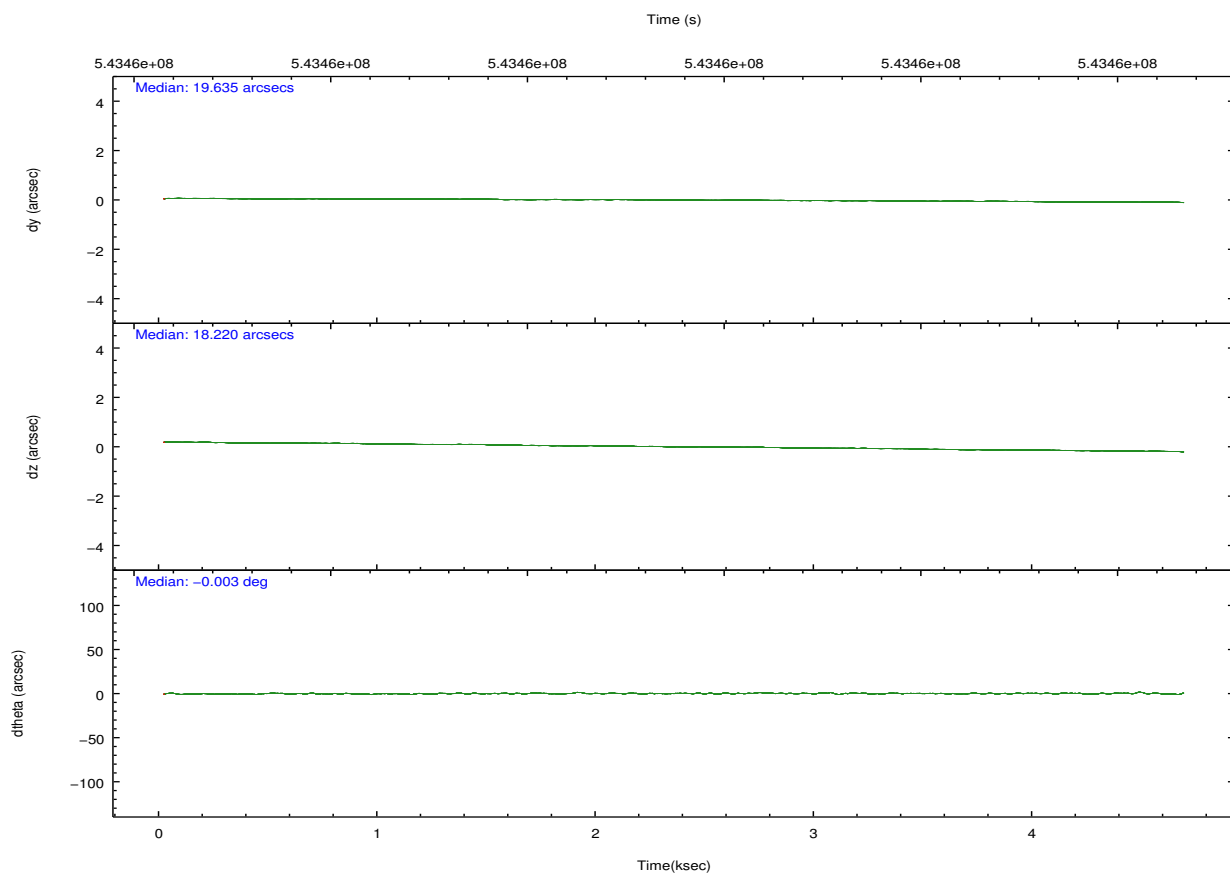
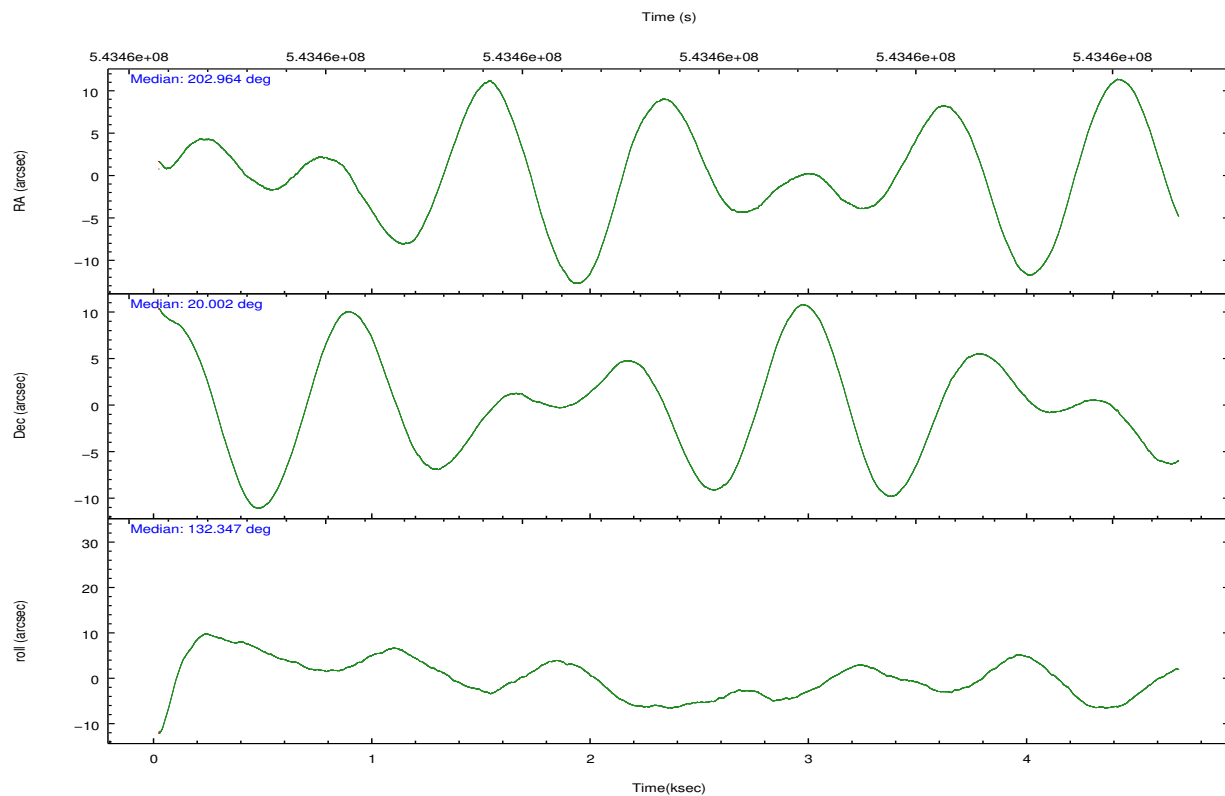
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	768	801	793	1023	1819
	4%	4%	4%	3%	7%
grade 1 events	10	7	9	39	16
	0%	0%	0%	0%	0%
grade 2 events	512	515	556	2360	1643
	2%	2%	2%	8%	6%
grade 3 events	254	222	257	943	678
	1%	1%	1%	3%	2%
grade 4 events	240	244	223	935	607
	1%	1%	1%	3%	2%
grade 5 events	895	1011	1033	2799	1491
	4%	5%	5%	10%	5%
grade 6 events	434	464	567	6416	1826
	2%	2%	2%	23%	7%
grade 7 events	14916	15564	15910	12779	17324
	82%	82%	82%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	202.991402	202.9635680924062	CCD I2 on	O2	Y
[deg] Pointing Dec	19.994011	20.00194417172327	CCD I3 on	O1	Y
[deg] Pointing Roll	132.190559	132.356669962395	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	543457704.184000	543456720.96804	CCD S5 on	N	N
Observation start date	2015-03-23T00:27:17	2015-03-23T00:12:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	543462104.184000	543463346.05591	On-chip summing requested	N	N
Observation end date	2015-03-23T01:40:37	2015-03-23T02:02:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



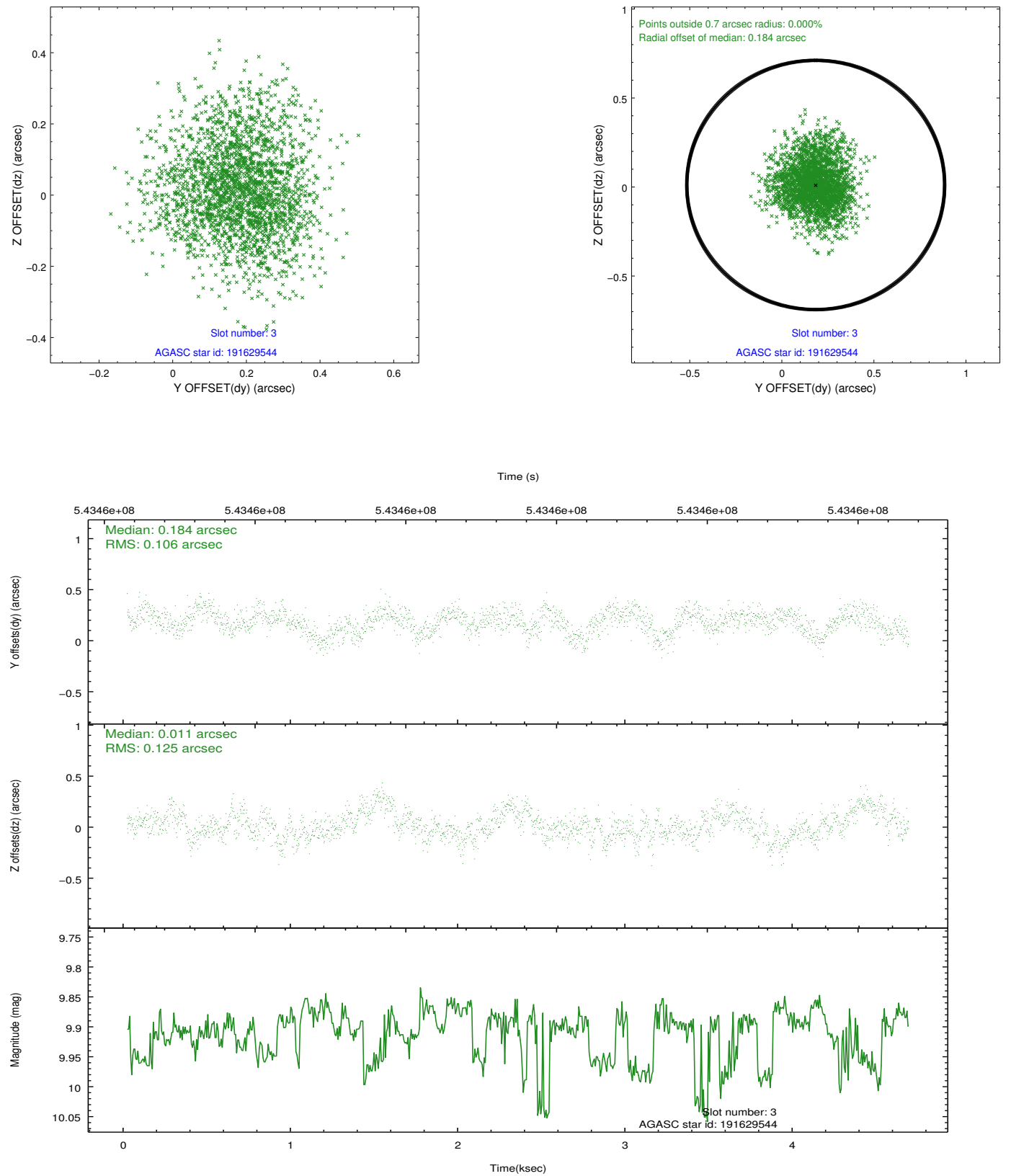


Slot Statistics

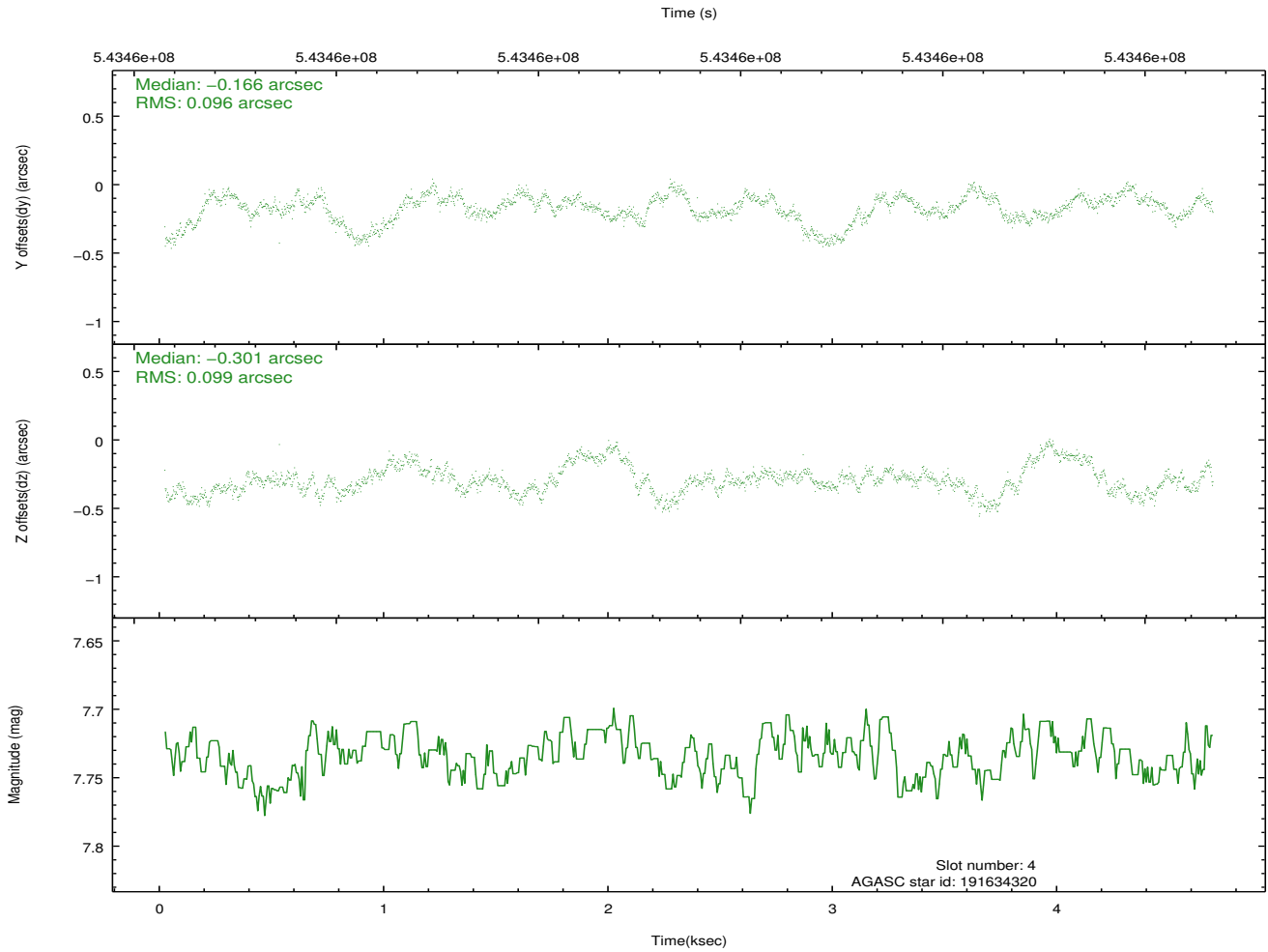
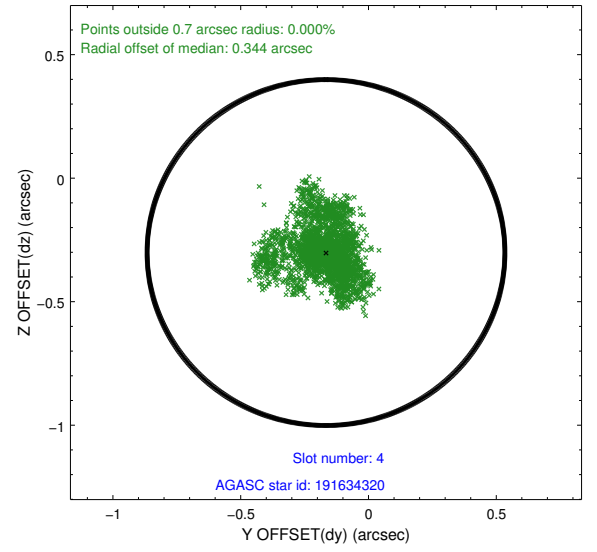
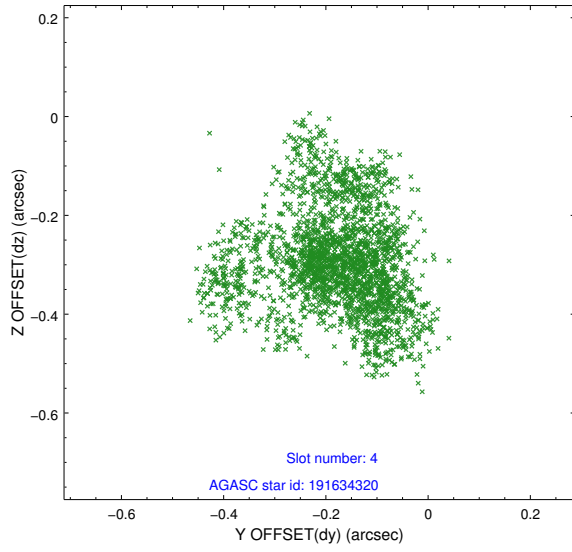
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	1139	-0.130	-0.092	0.007	0.012	0.000000	0.000000	-772.88	-1739.71
1	FID		ACIS-S-4	7.22	1140	0.342	0.087	0.006	0.010	0.000000	0.000000	2140.29	167.53
2	FID		ACIS-S-5	7.23	1140	-0.243	0.014	0.007	0.011	0.000000	0.000000	-1824.13	162.70
3	GUIDE	used	191629544	9.91	2278	0.184	0.011	0.176	0.285	202.974122	19.714554	-705.23	719.24
4	GUIDE	used	191634320	7.73	2280	-0.166	-0.301	0.152	0.243	202.696941	19.665004	-206.80	1535.36
5	GUIDE	used	191889496	9.72	2278	0.236	0.089	0.194	0.302	202.448149	20.196817	1776.64	868.96
6	GUIDE	used	192027336	10.50	2193	-0.259	0.229	0.317	0.501	203.030127	20.570079	1450.28	-1488.44
7	GUIDE	used	192023912	7.81	2279	-0.001	-0.015	0.160	0.282	203.107672	20.877373	2095.12	-2425.53

2.4 Star Slots

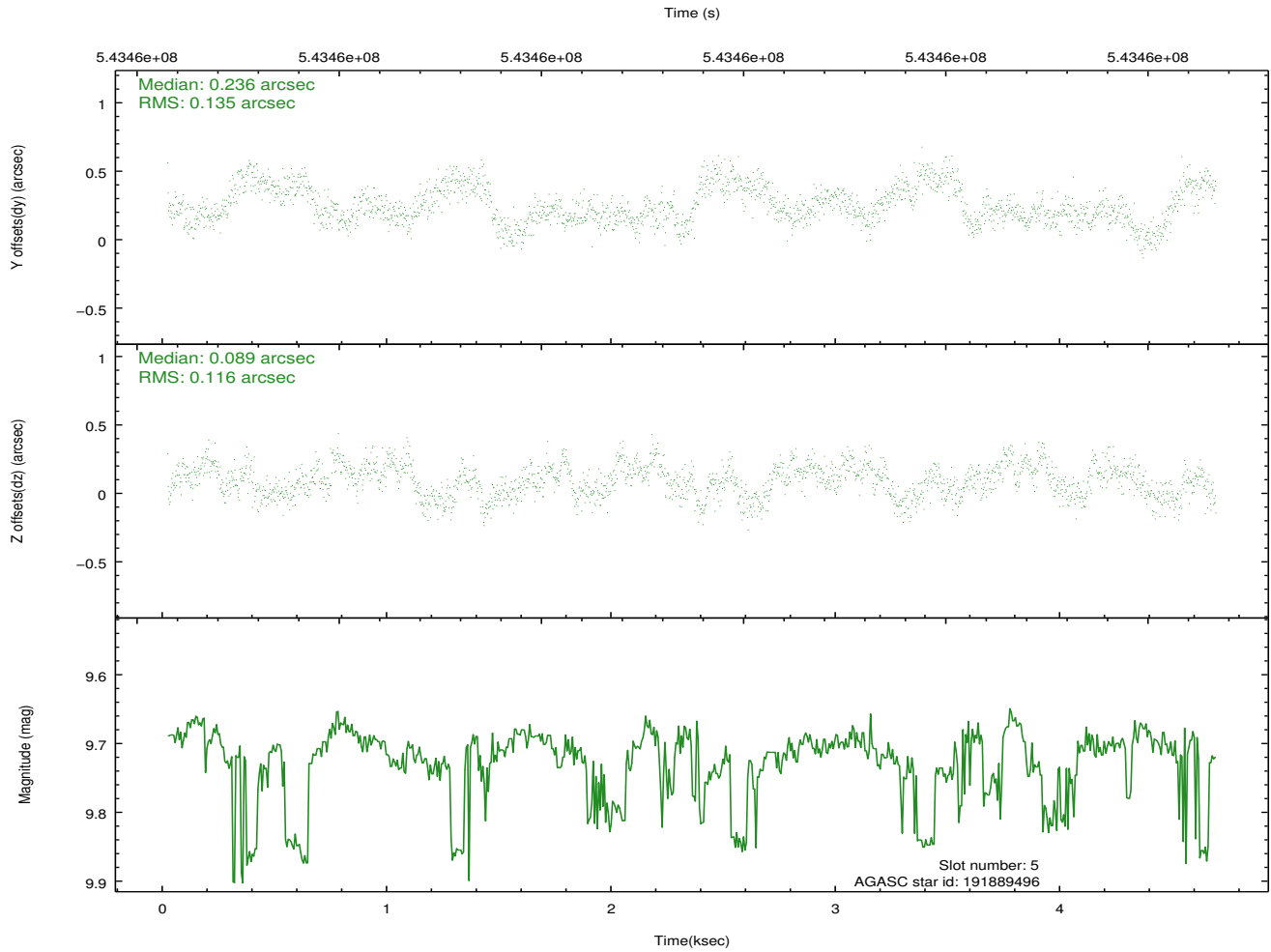
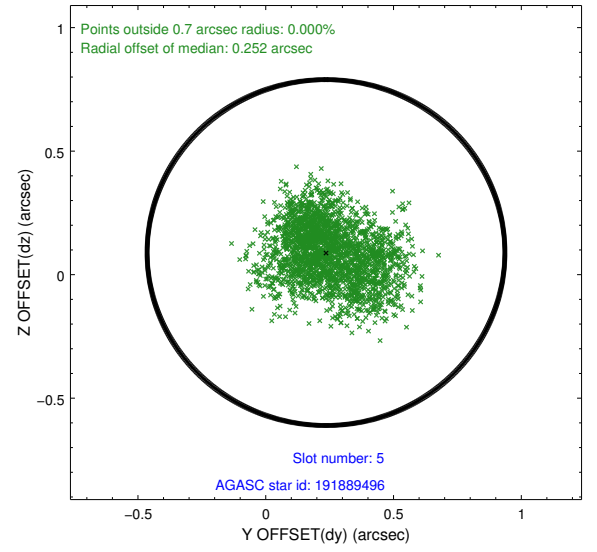
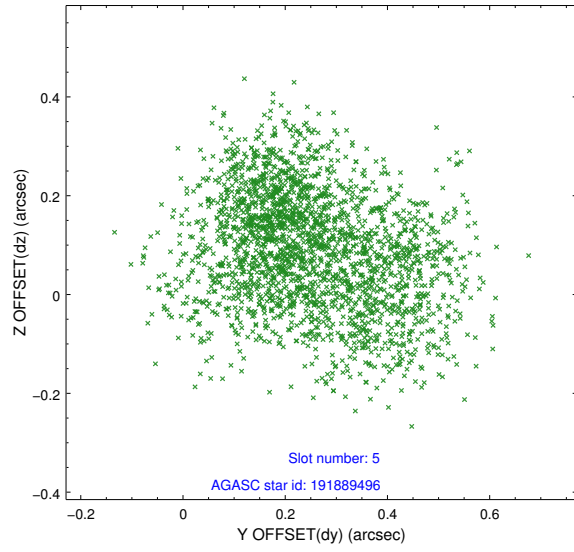
2.4.1 Slot 3



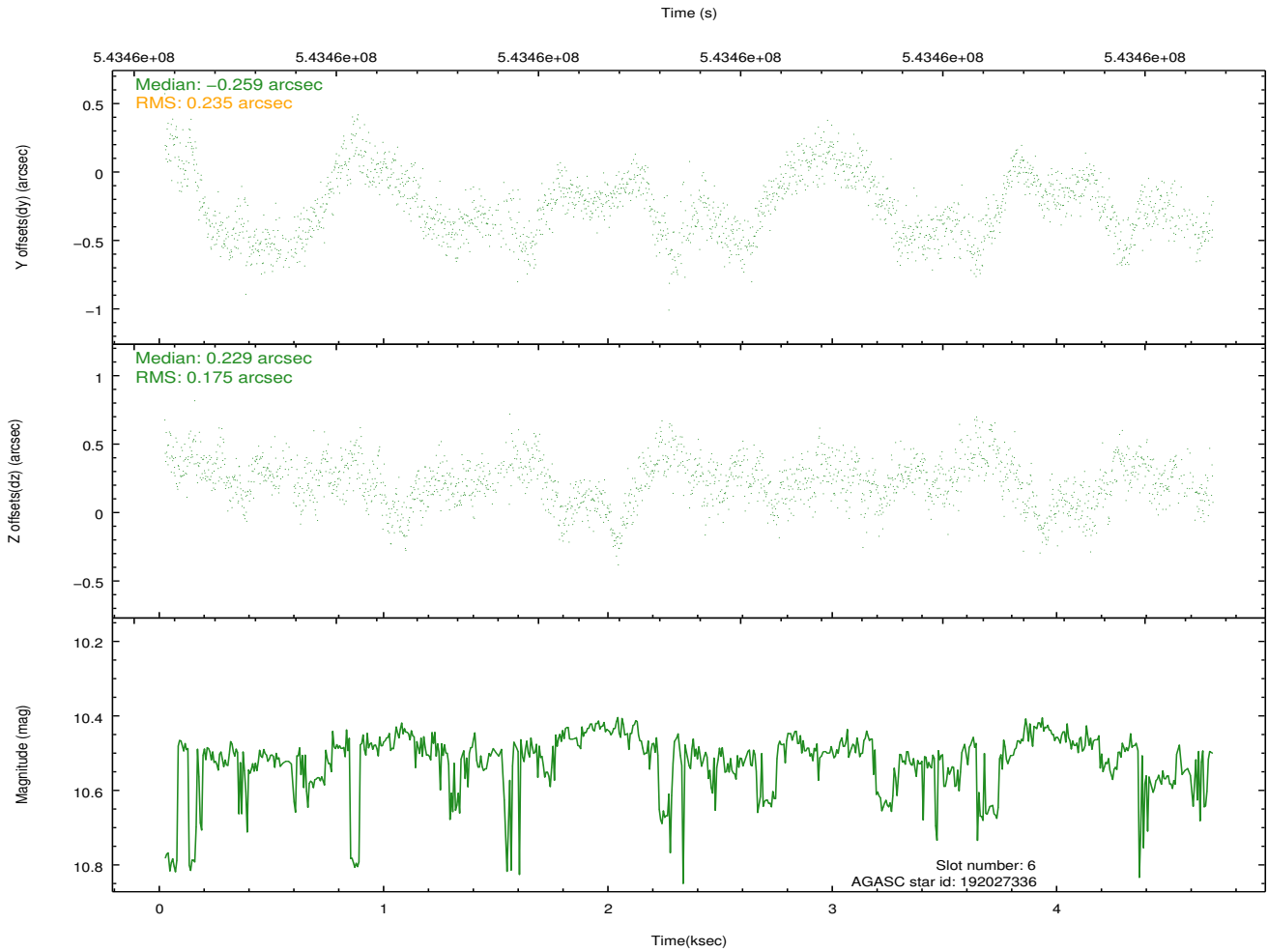
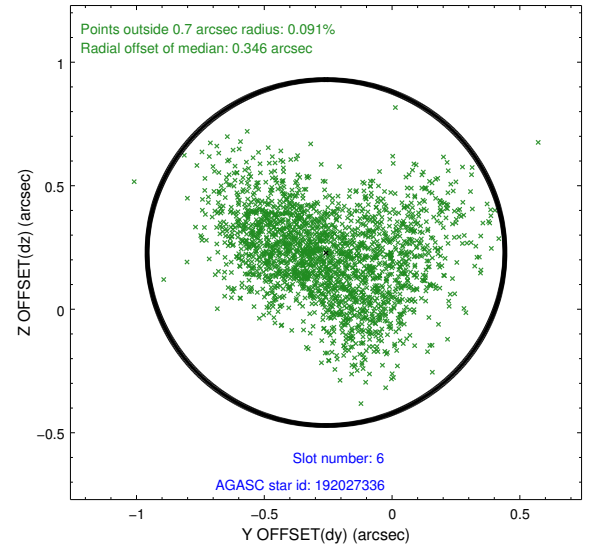
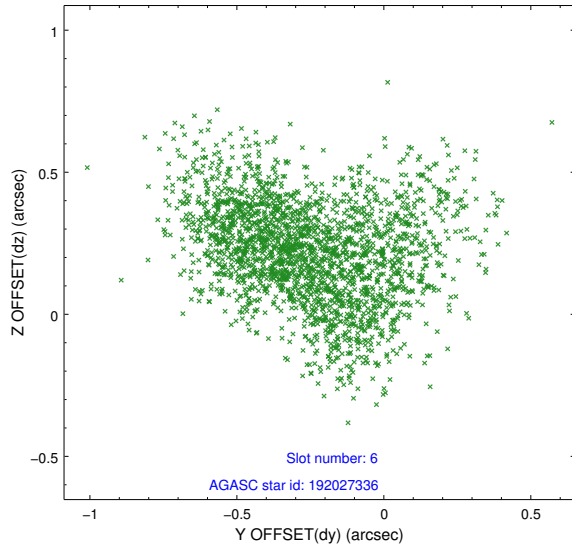
2.4.2 Slot 4



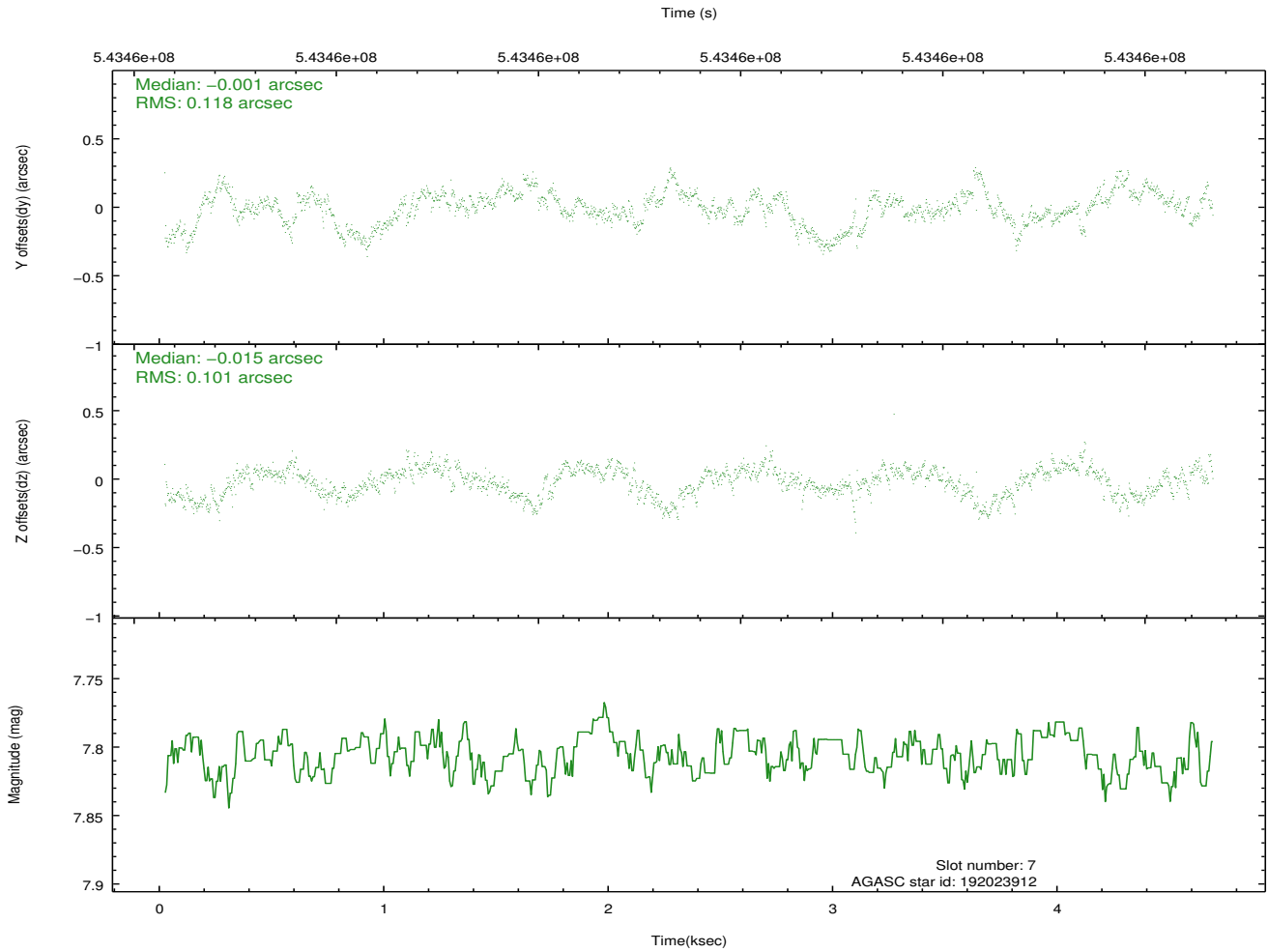
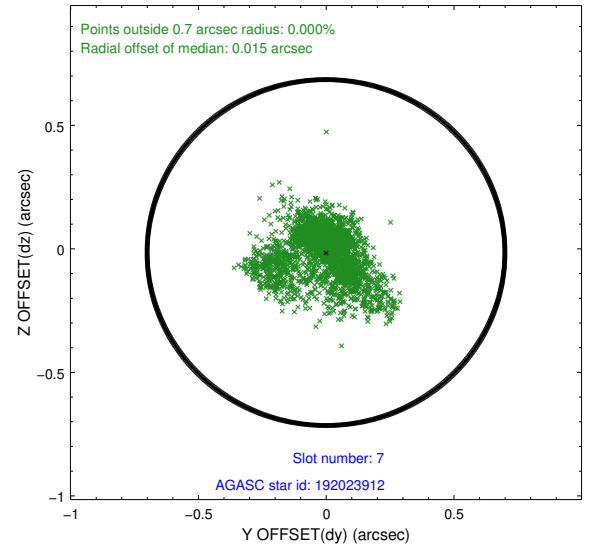
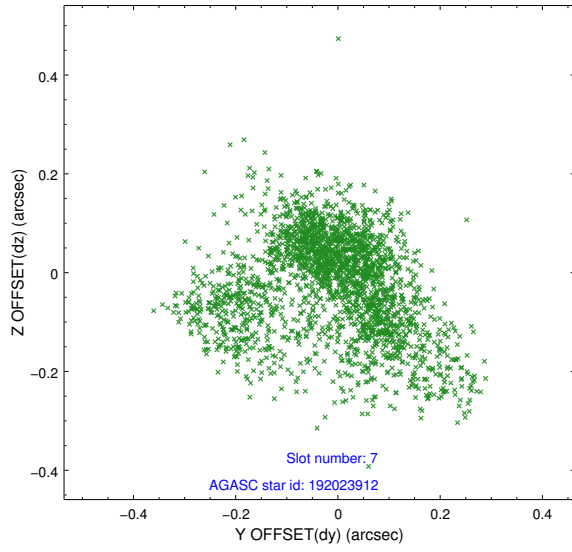
2.4.3 Slot 5



2.4.4 Slot 6

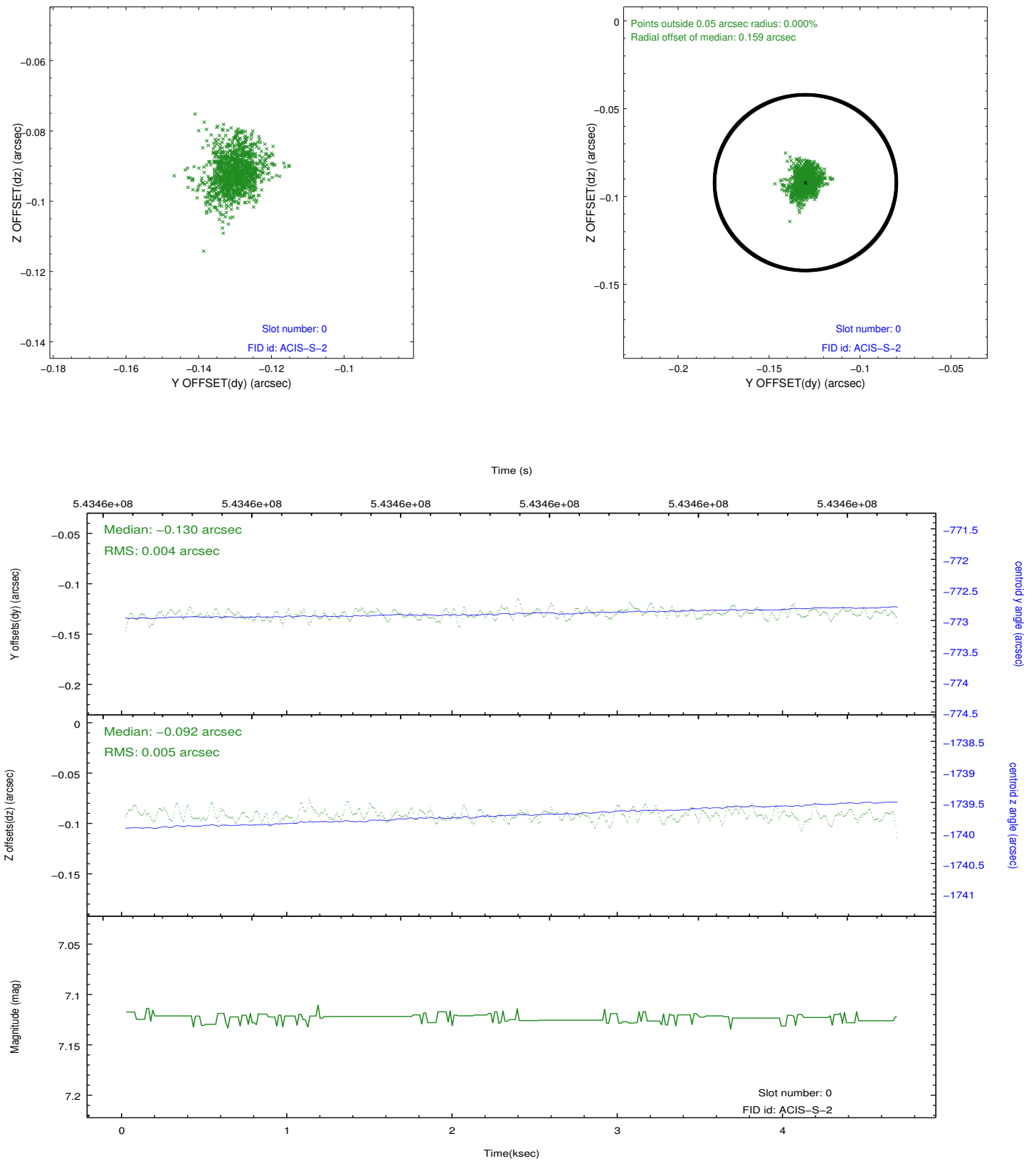


2.4.5 Slot 7

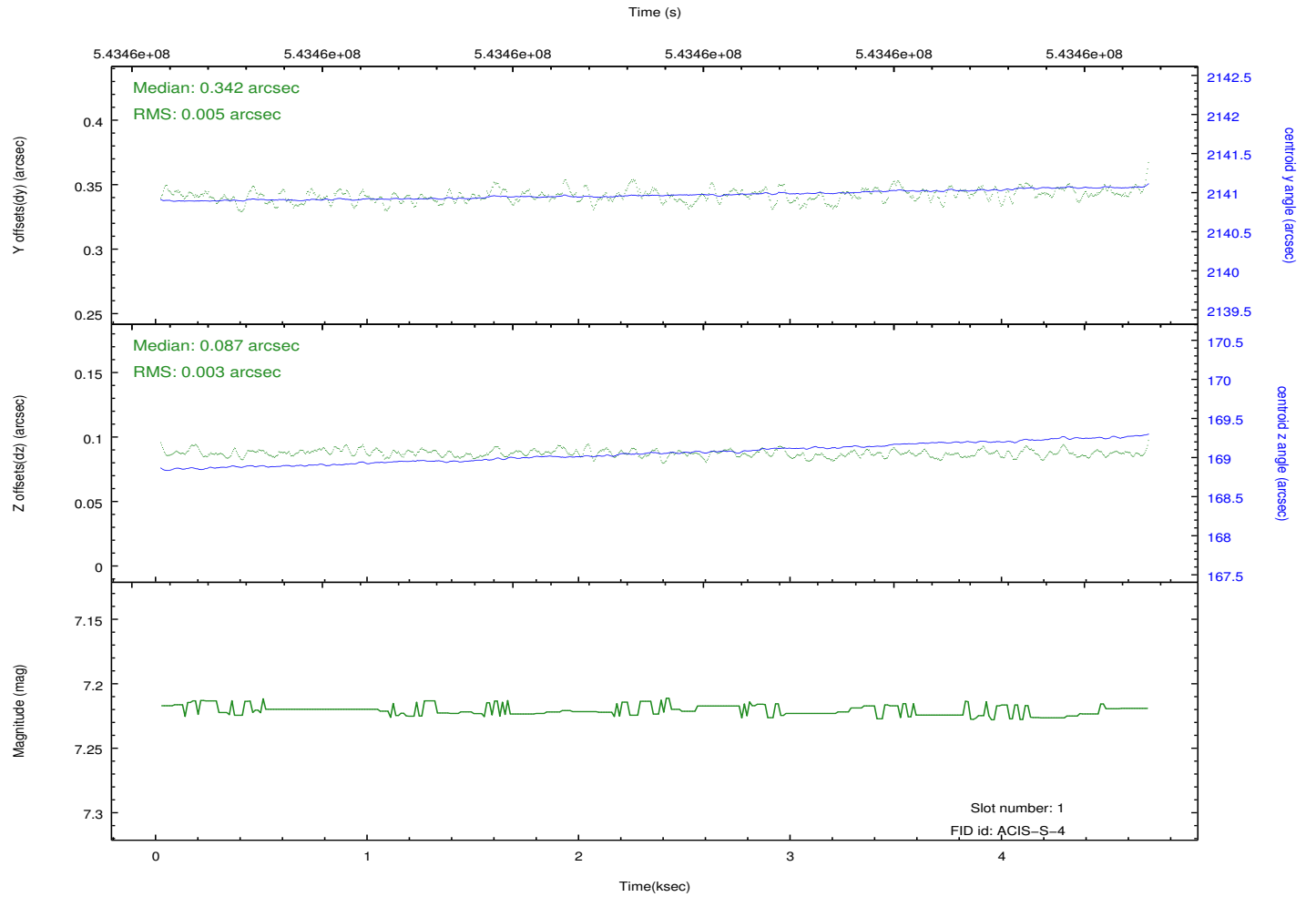
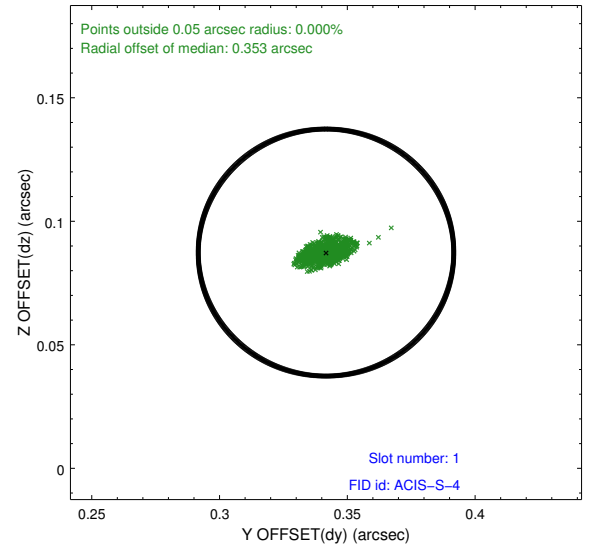
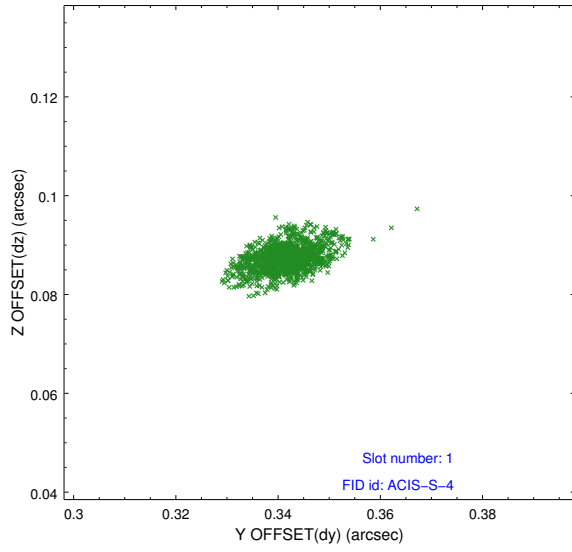


2.5 FID Slots

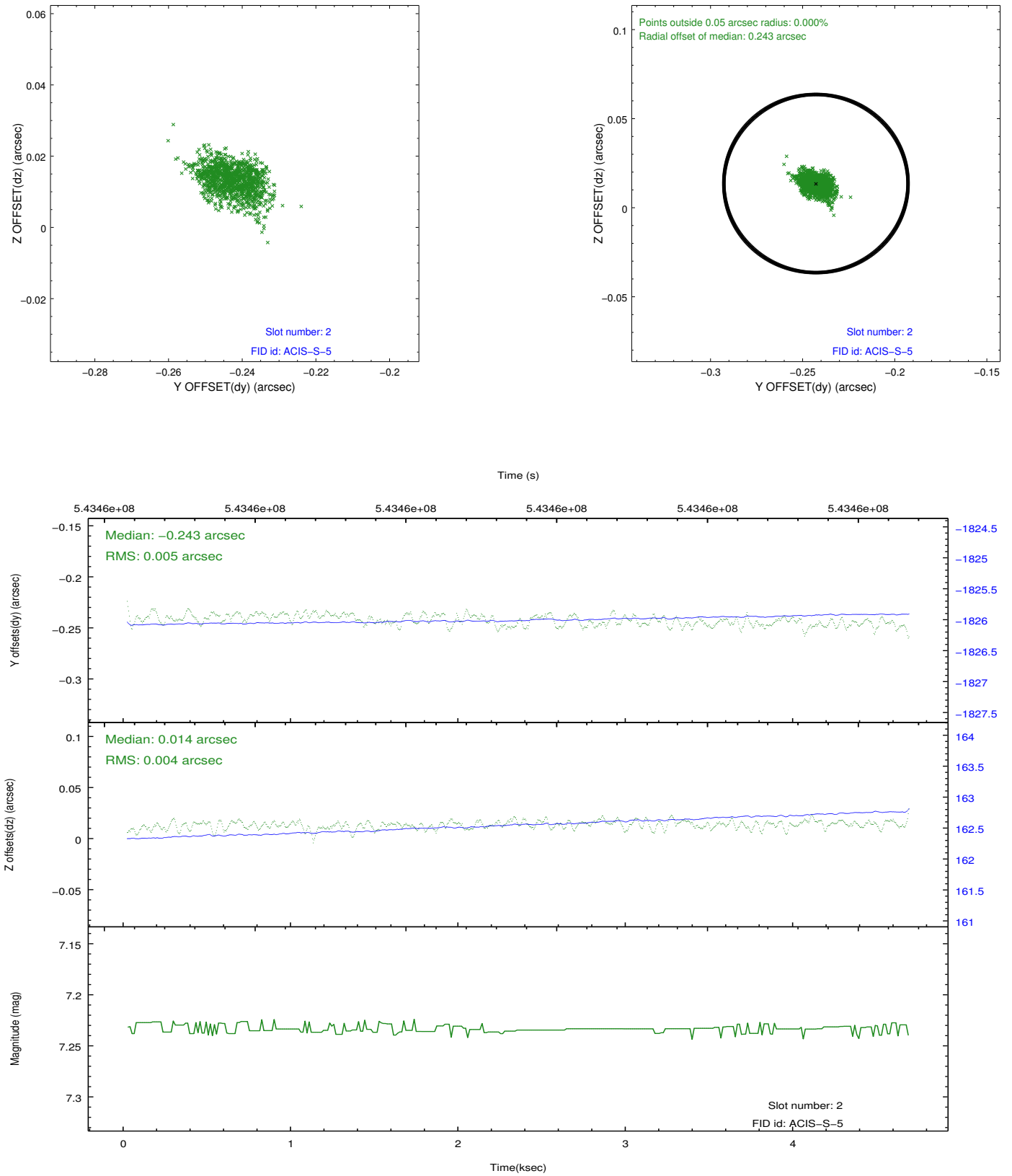
2.5.1 Slot 0



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)	2015.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.4656941674948

A.2 Comments