

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16992 - L2 Version 1
Chandra X-Ray Center

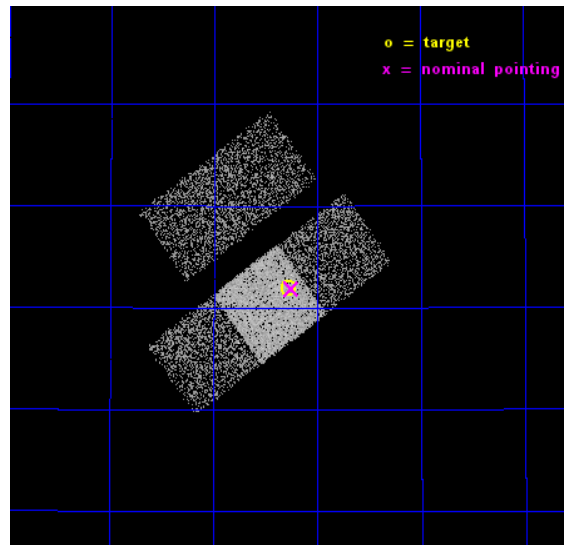
L2 Processing Date : Feb 28 2015

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1 Front

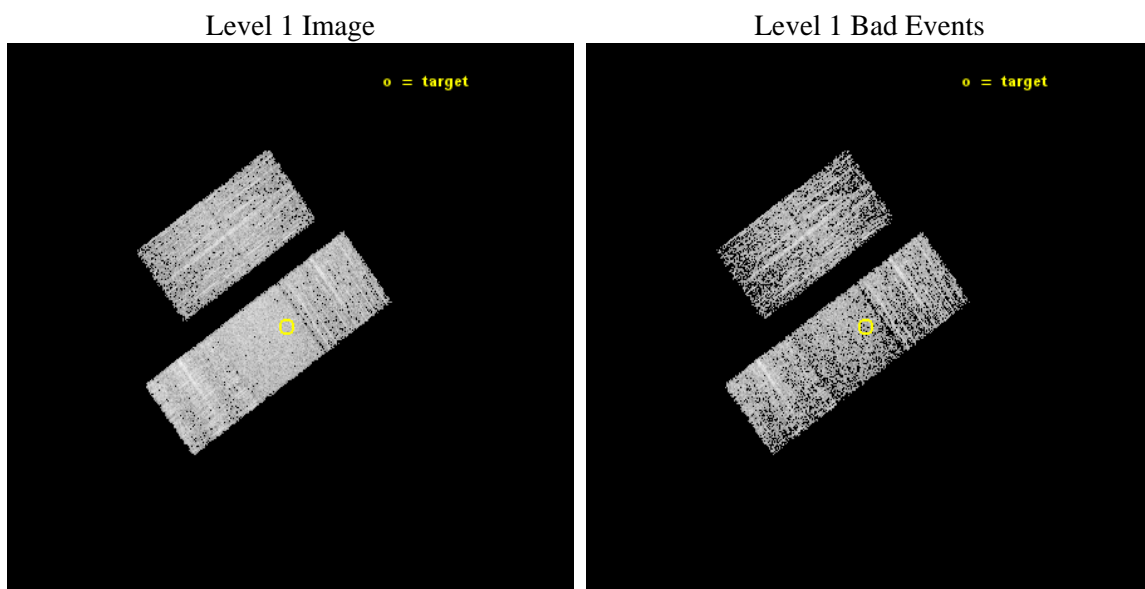
seq_num	601185	Sequence number
obs_id	16992	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC4183	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.320417	Observer's specified target RA [deg]
dec_targ	43.69825	Observer's specified target Dec [deg]
ra_nom	183.31274307162	Nominal RA [deg]
dec_nom	43.698010463414	Nominal Dec [deg]
roll_nom	143.85071892954	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4163.3000321388	Sum of GTIs [s]
livetime	4108.903452242	Livetime [s]
ontime2	4163.3000321388	Sum of GTIs [s]
ontime3	4163.3000321388	Sum of GTIs [s]
ontime6	4163.3000321388	Sum of GTIs [s]
ontime7	4163.3000321388	Sum of GTIs [s]
ontime8	4163.3000321388	Sum of GTIs [s]
l2events	19777	Number of level 2 events



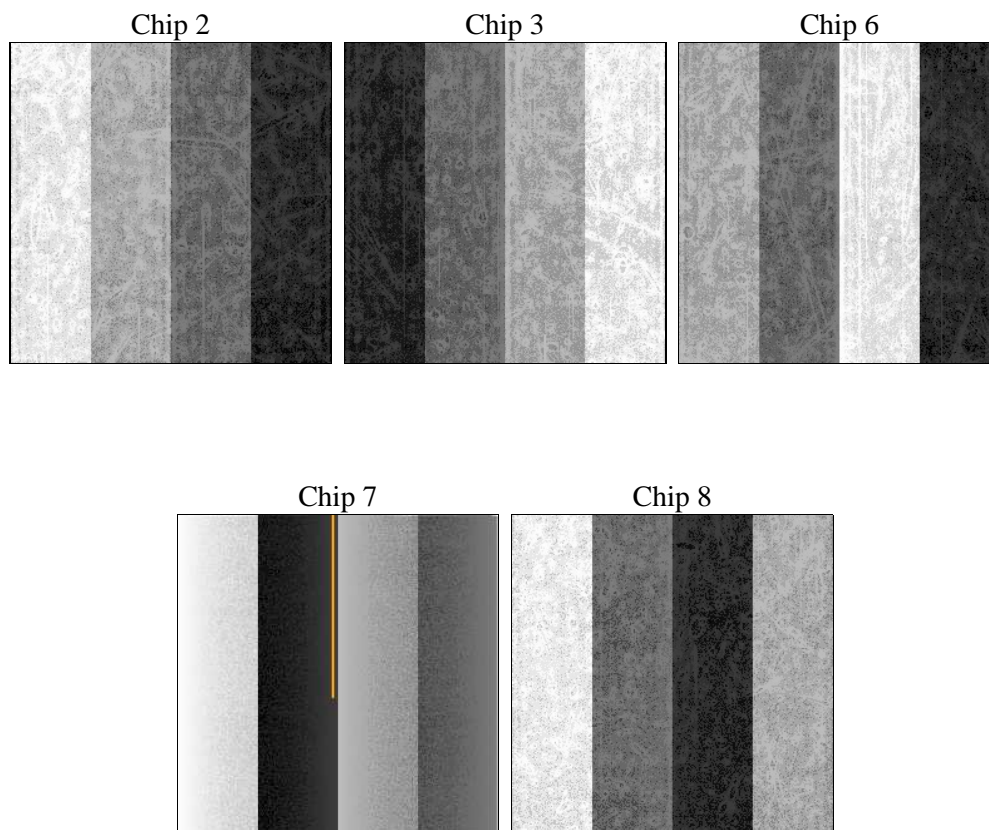
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4100.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	4163.3000321388	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	4163.3000321388	Sum of GTIs [s]
date	2015-02-28T11:55:02	Date and time of file creation	ontime3	4163.3000321388	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4163.3000321388	Sum of GTIs [s]
			ontime7	4163.3000321388	Sum of GTIs [s]
			ontime8	4163.3000321388	Sum of GTIs [s]
			l1events	117236	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	20331	18915	22055	27452	28483
rejected events	18063	16690	19537	15820	20740
rejected %	88%	88%	88%	57%	72%

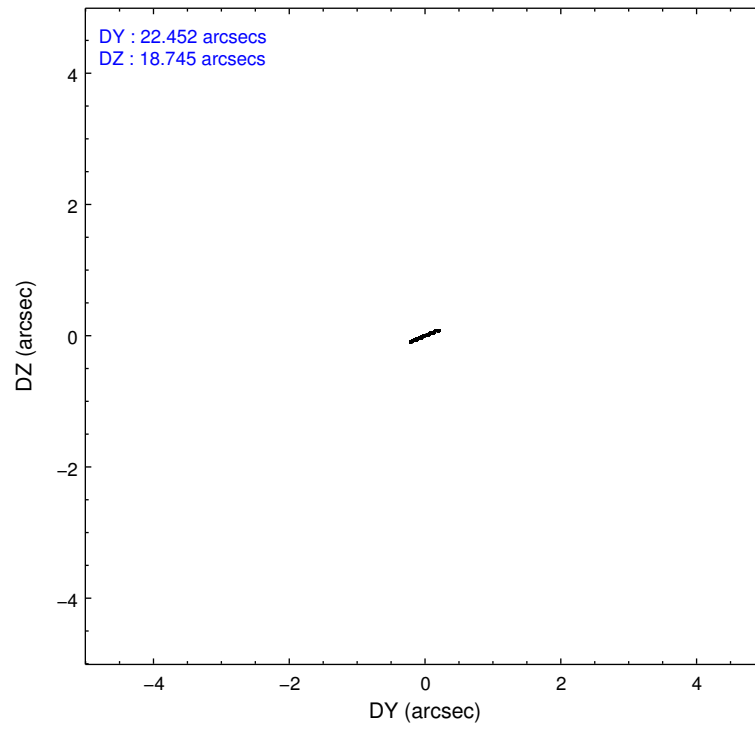
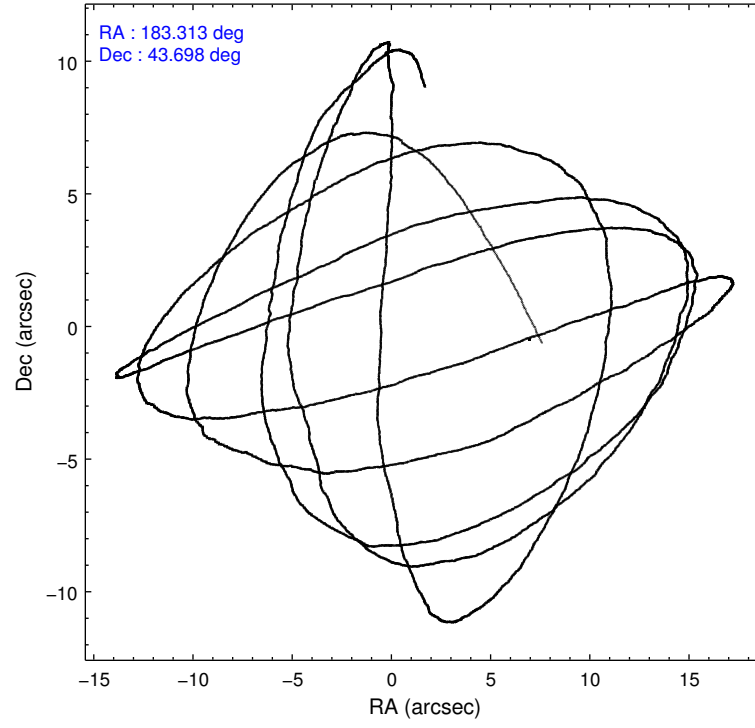
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	786	794	841	972	2262
	3%	4%	3%	3%	7%
grade 1 events	9	15	9	46	20
	0%	0%	0%	0%	0%
grade 2 events	571	440	585	2443	1682
	2%	2%	2%	8%	5%
grade 3 events	230	260	247	926	909
	1%	1%	1%	3%	3%
grade 4 events	235	276	227	884	835
	1%	1%	1%	3%	2%
grade 5 events	839	1061	998	2552	1543
	4%	5%	4%	9%	5%
grade 6 events	449	459	621	6414	2060
	2%	2%	2%	23%	7%
grade 7 events	17212	15610	18527	13215	19172
	84%	82%	84%	48%	67%

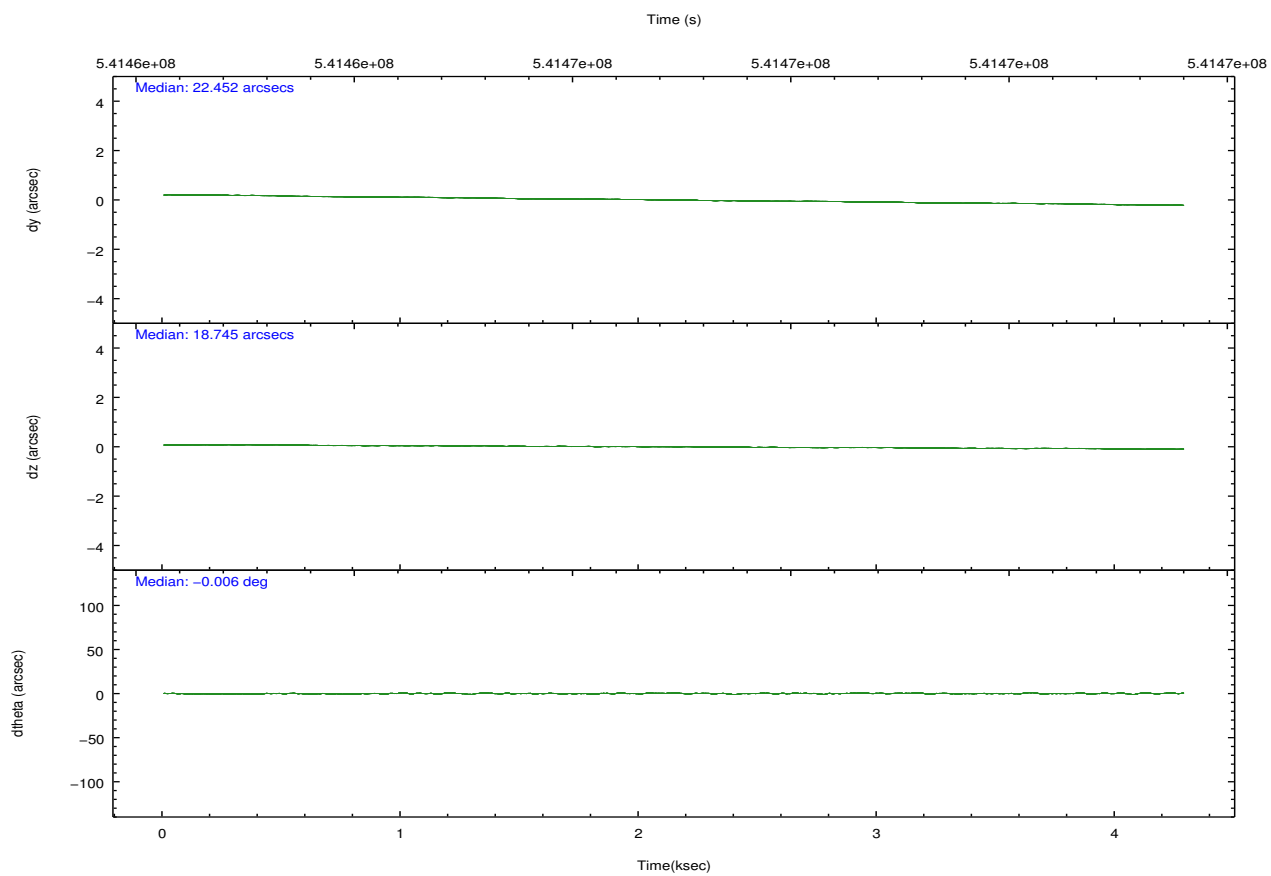
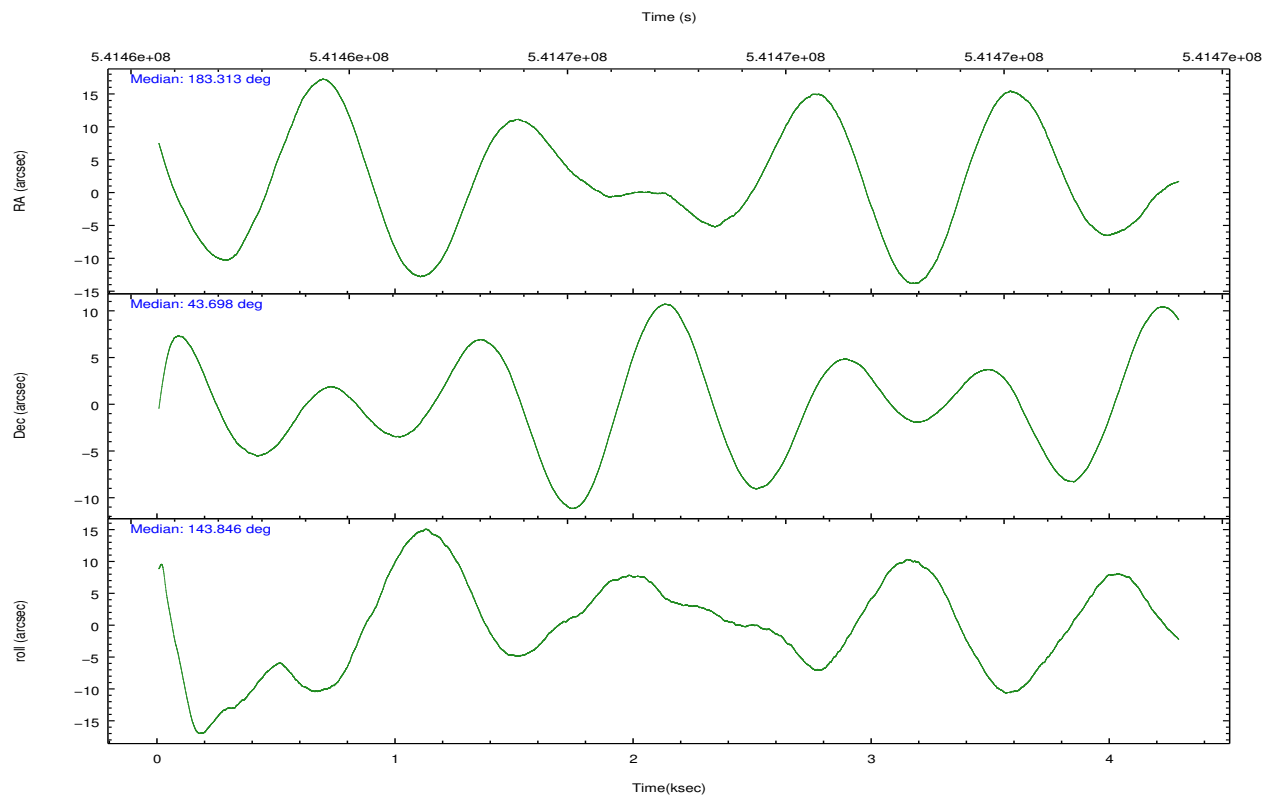
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	183.350709	183.3127430716175
[deg] Pointing Dec	43.695393	43.69801046341379
[deg] Pointing Roll	143.667726	143.8507189295435
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.145094680475
[mm] SIM translation stage offset	0	0.01257209746719923
[s] Observation start time (MET)	541464512.184000	541463484.8440599
Observation start date	2015-02-27T22:47:25	2015-02-27T22:31:24
[s] Observation end time (MET)	541468612.184000	541469654.83191
Observation end date	2015-02-27T23:55:45	2015-02-28T00:14:14
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	N	N
CCD I1 on	N	N
CCD I2 on	O2	Y
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
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



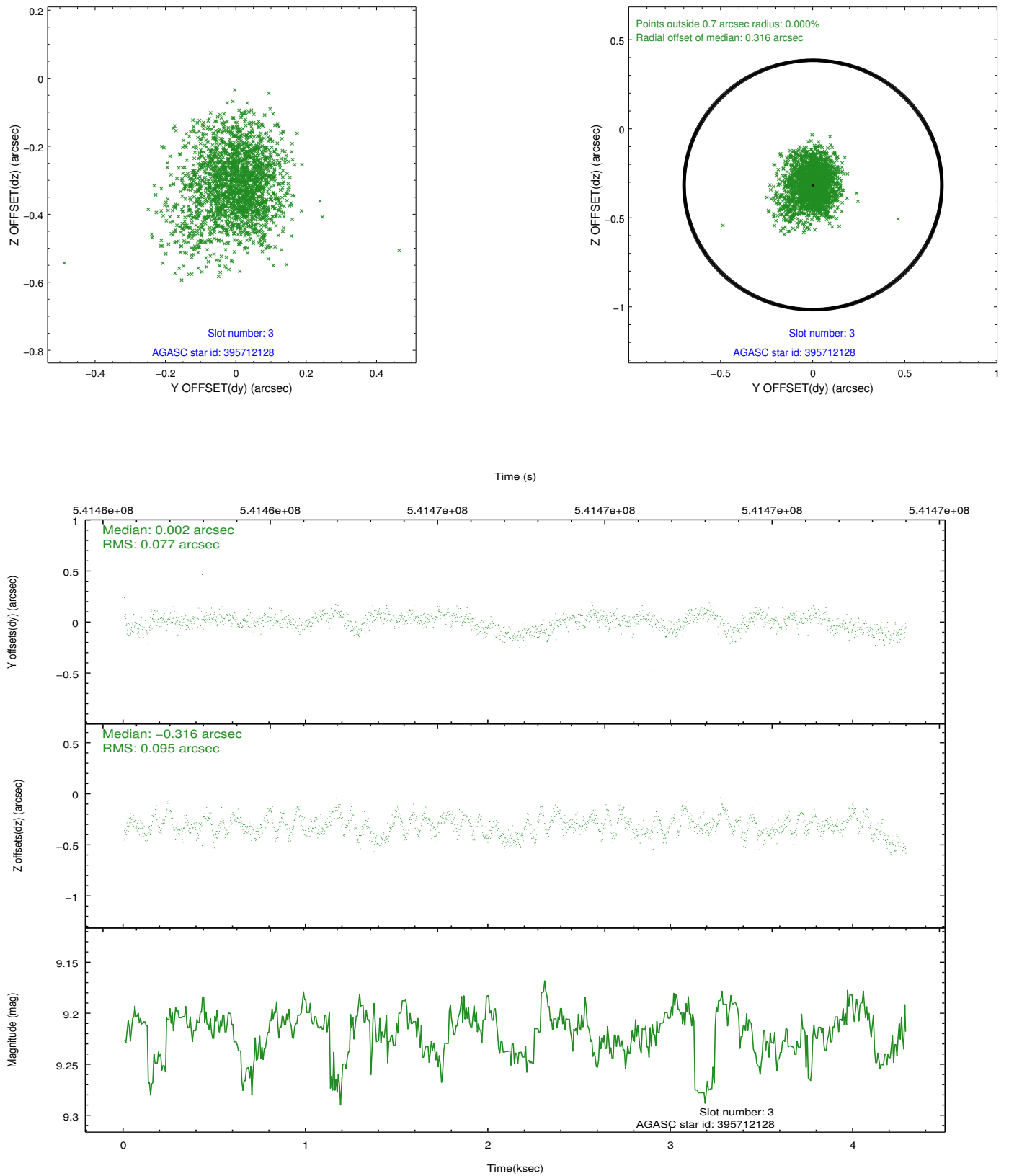


Slot Statistics

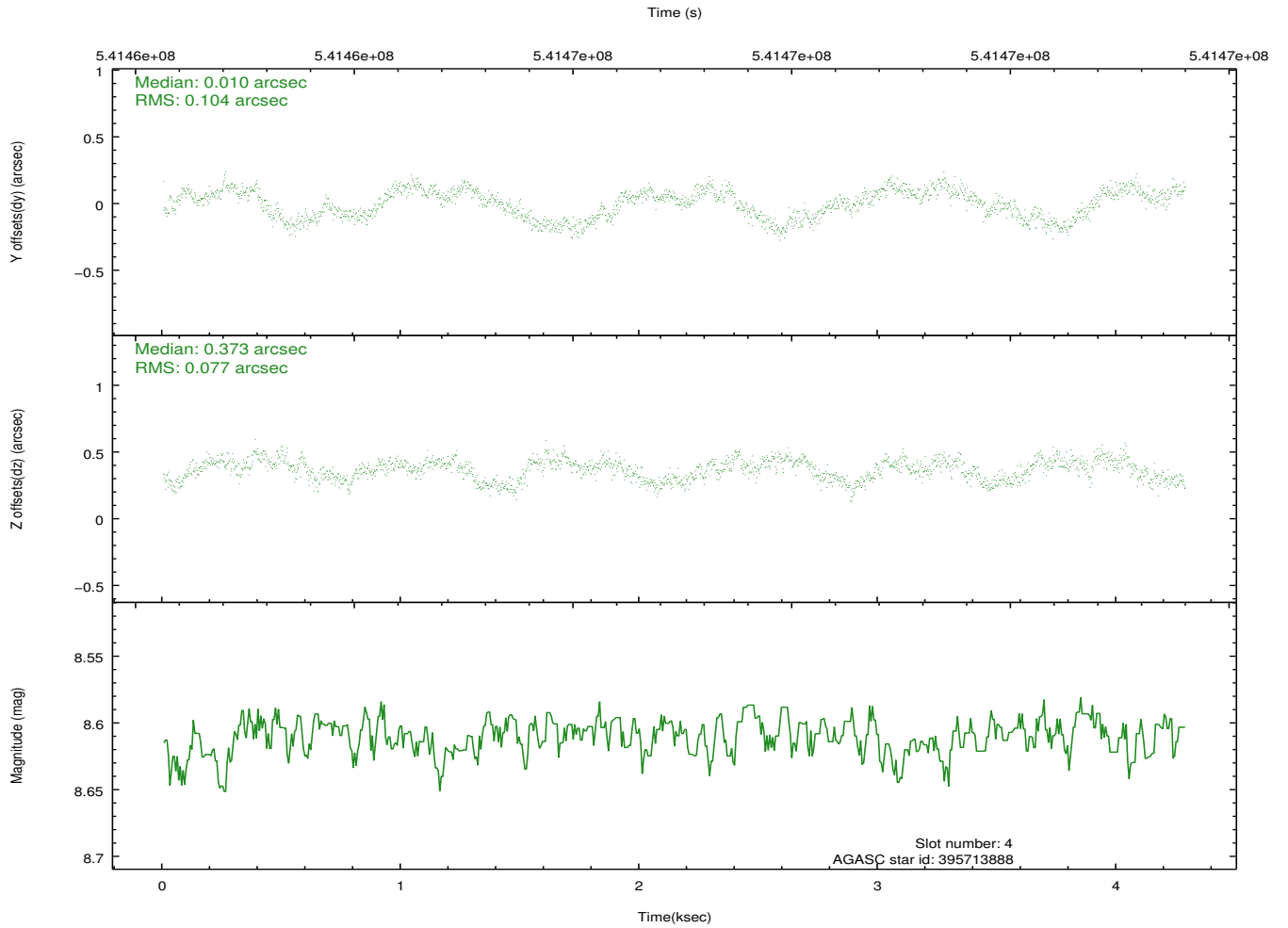
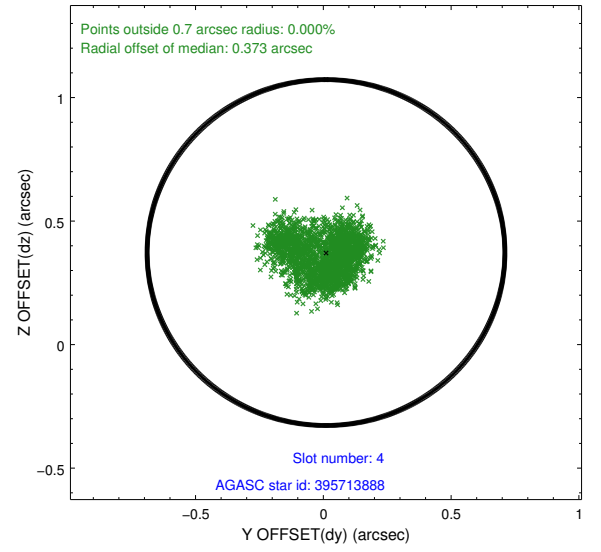
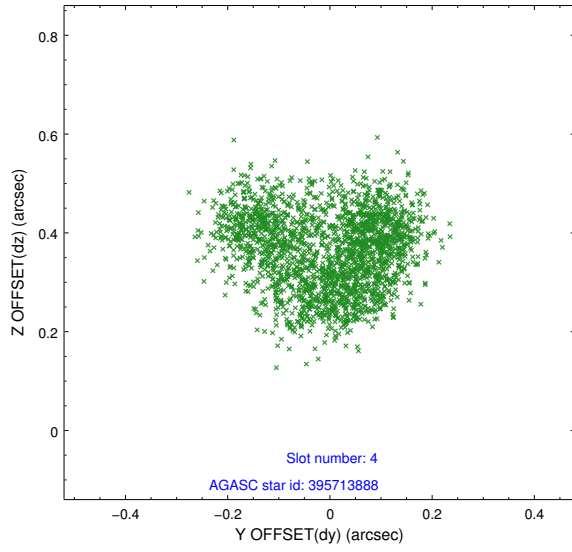
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.21	1045	0.055	-0.012	0.007	0.011	0.000000	0.000000	920.48	-1735.75
1	FID		ACIS-S-4	7.22	1045	0.275	-0.014	0.007	0.013	0.000000	0.000000	2138.88	166.92
2	FID		ACIS-S-5	7.23	1045	-0.356	0.038	0.007	0.013	0.000000	0.000000	-1826.97	162.16
3	GUIDE	used	395712128	9.22	2090	0.002	-0.316	0.128	0.213	183.583517	43.390682	-1140.39	521.95
4	GUIDE	used	395713888	8.61	2091	0.010	0.373	0.140	0.210	183.919303	43.926829	-691.74	-1547.99
5	GUIDE	used	395714944	9.50	2086	-0.087	-0.118	0.192	0.360	183.709933	43.122558	-1980.95	1100.33
6	GUIDE	used	395715448	9.31	2091	-0.080	-0.171	0.146	0.226	182.849040	43.704154	1071.42	745.55
7	GUIDE	used	395716720	9.08	2090	0.141	0.244	0.125	0.188	184.130356	43.671843	-1679.56	-1141.36

2.4 Star Slots

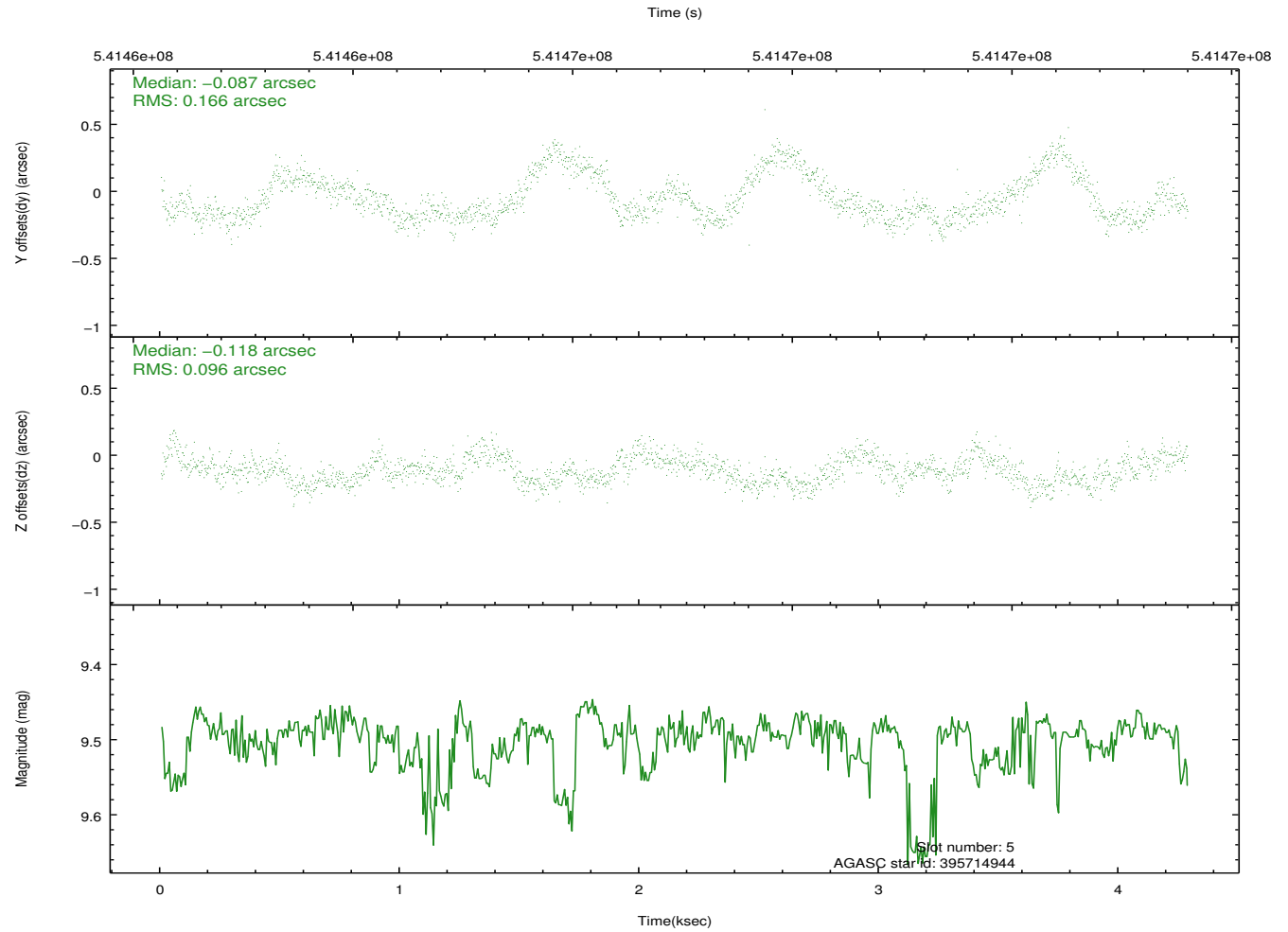
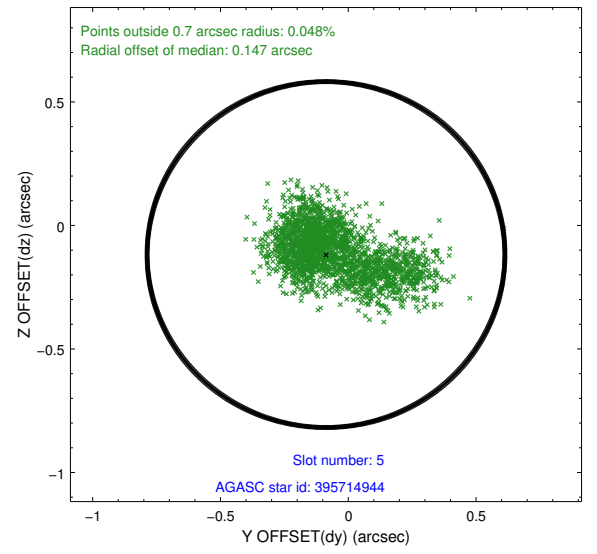
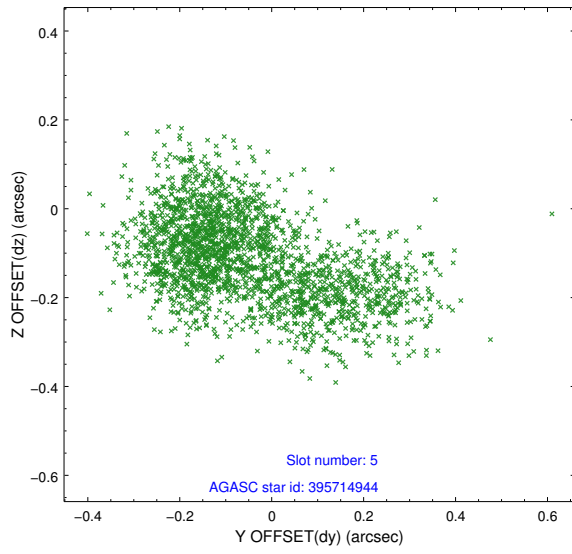
2.4.1 Slot 3



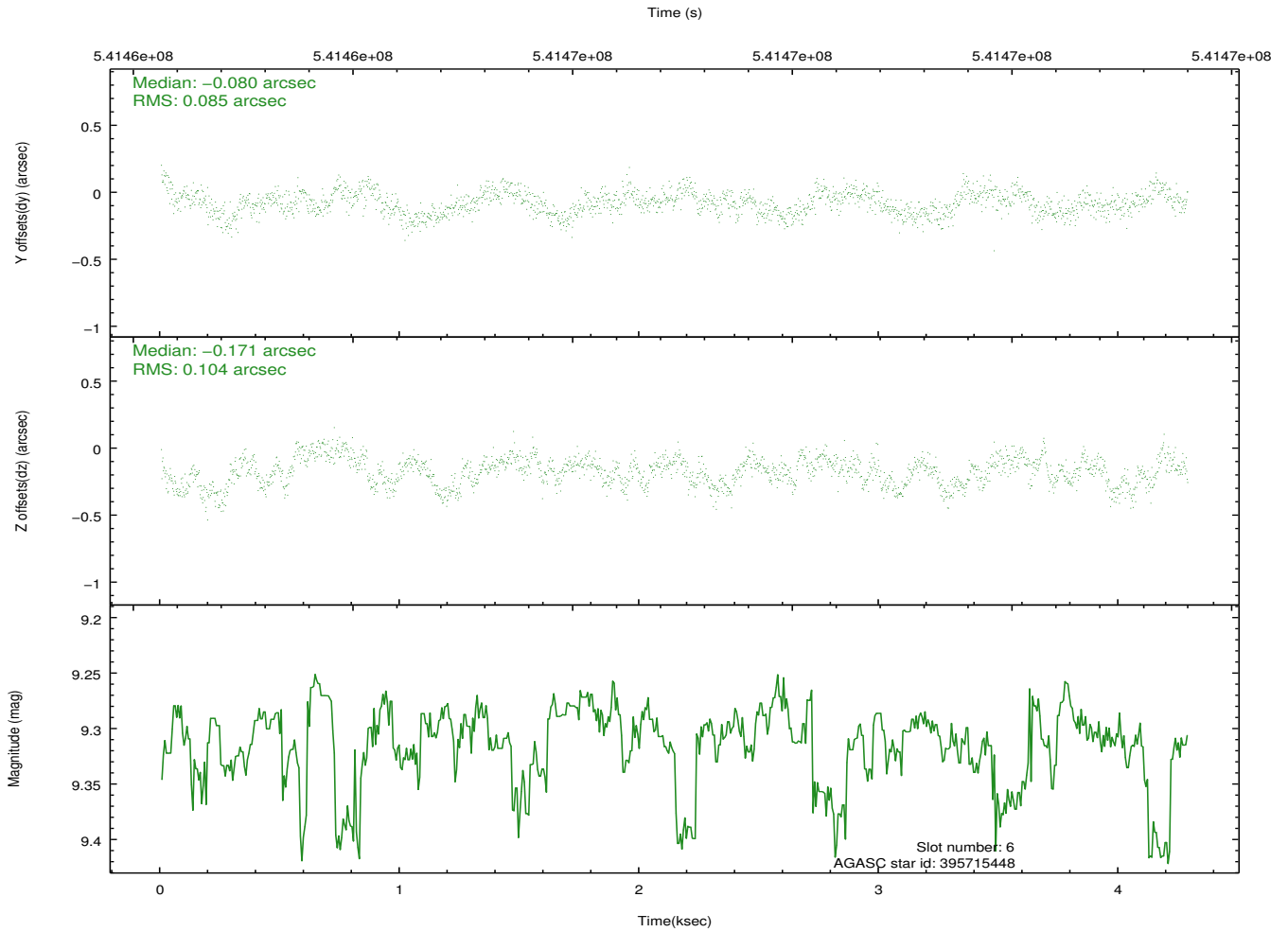
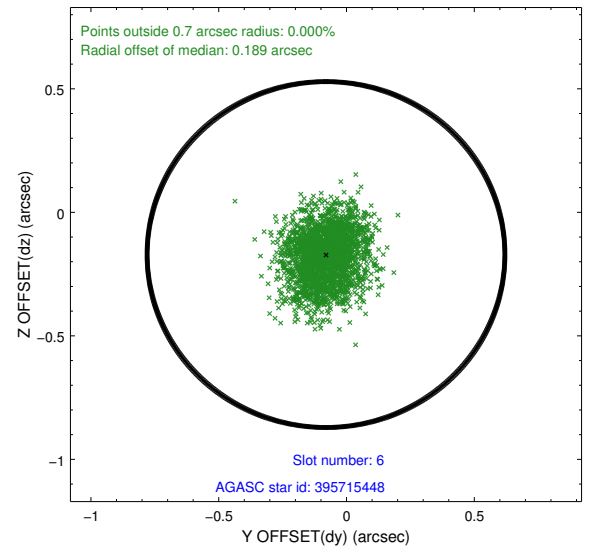
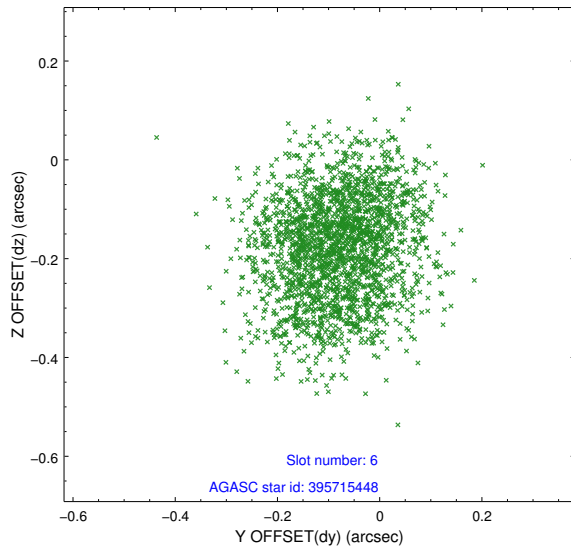
2.4.2 Slot 4



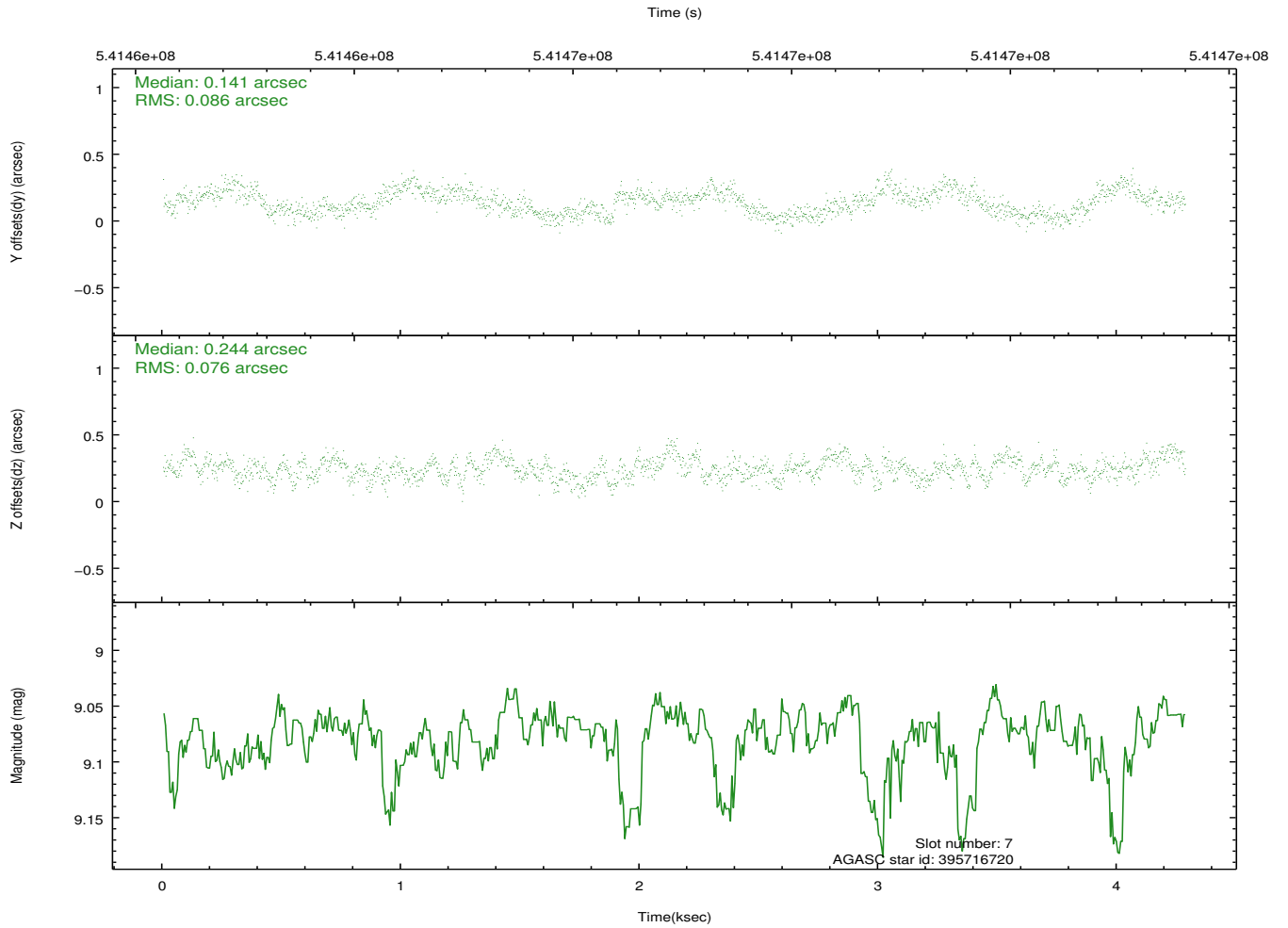
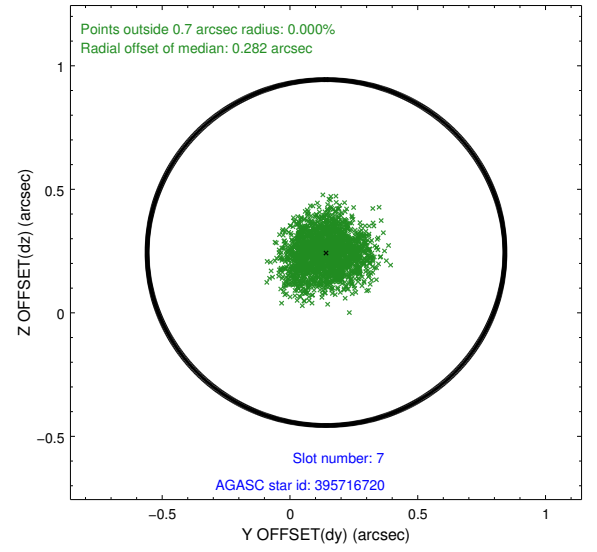
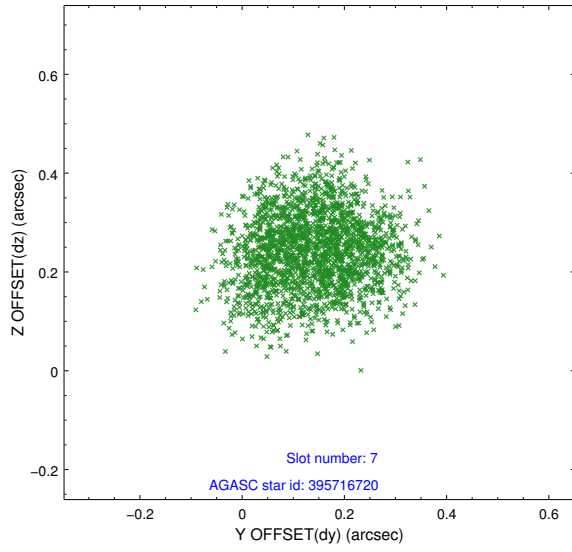
2.4.3 Slot 5



2.4.4 Slot 6

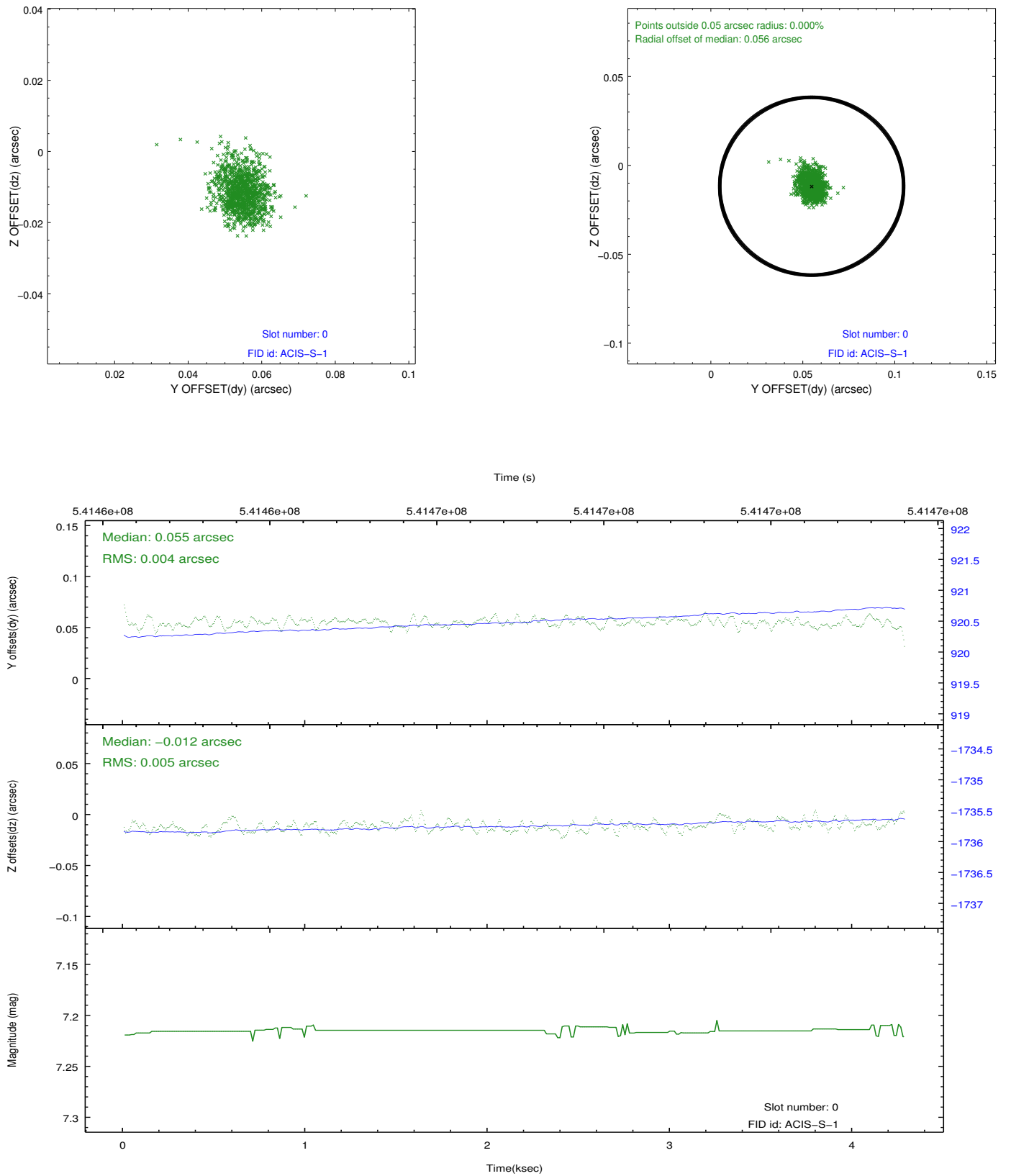


2.4.5 Slot 7

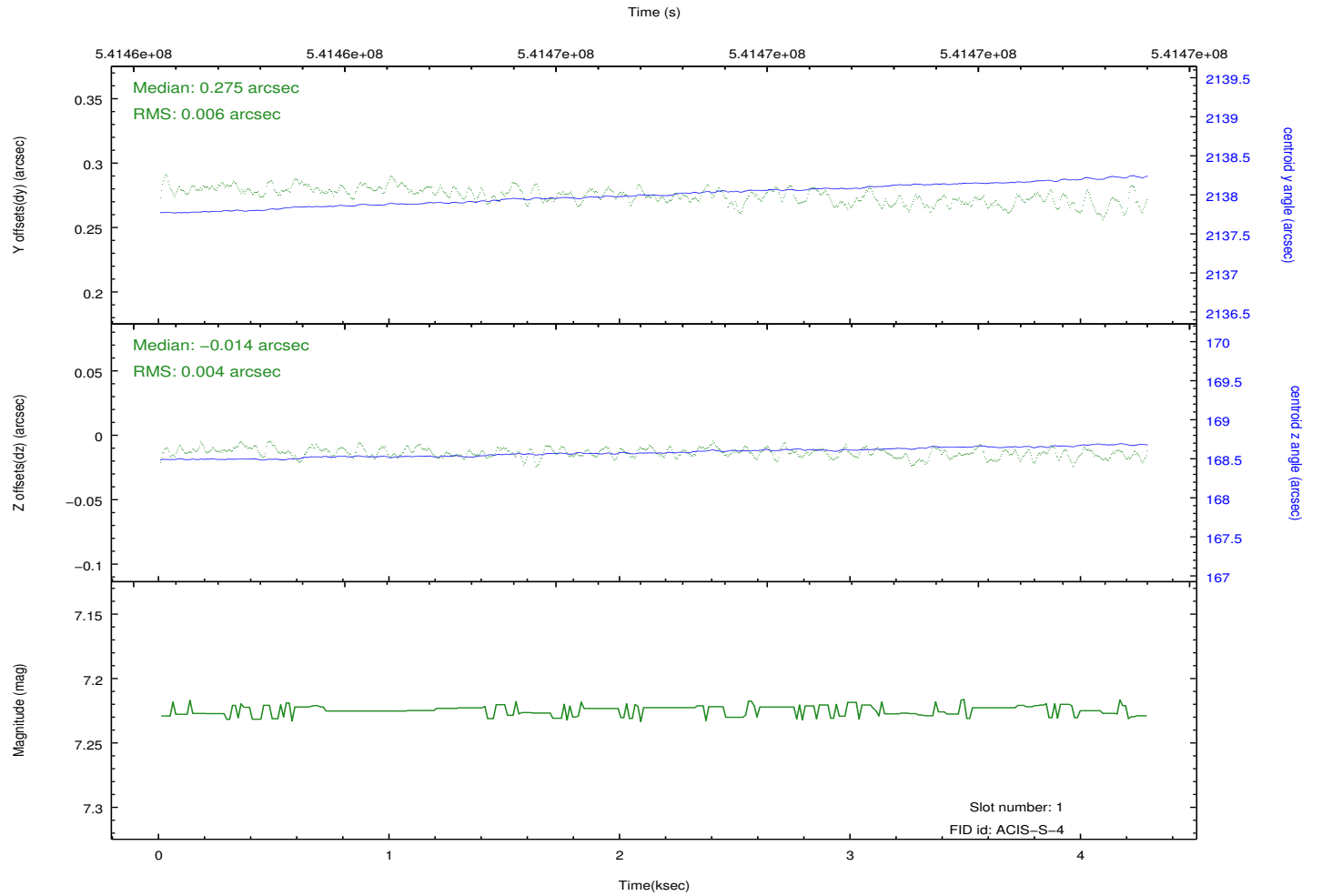
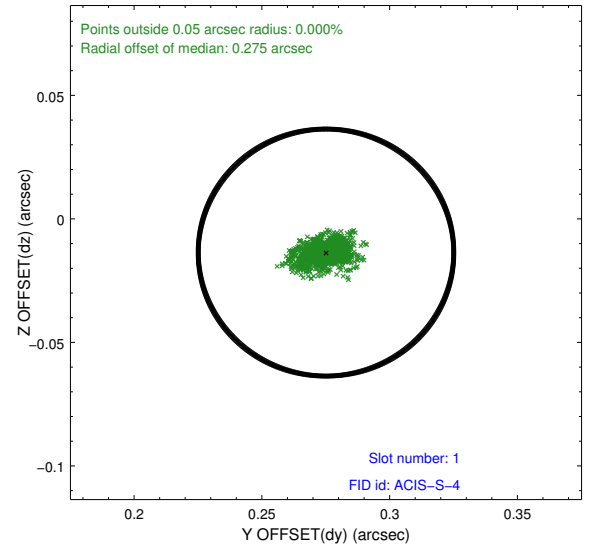
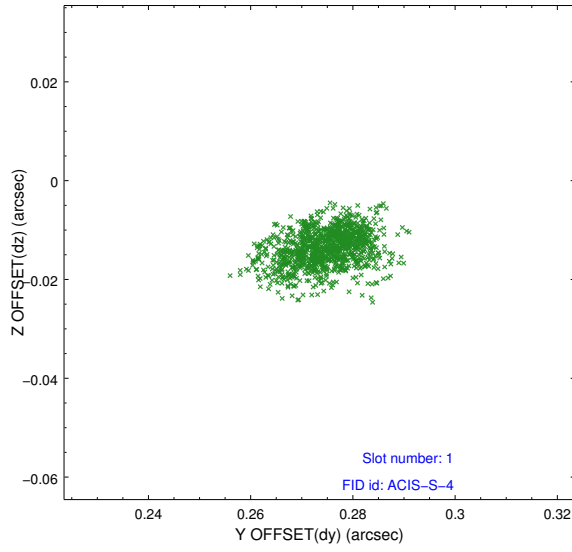


2.5 FID Slots

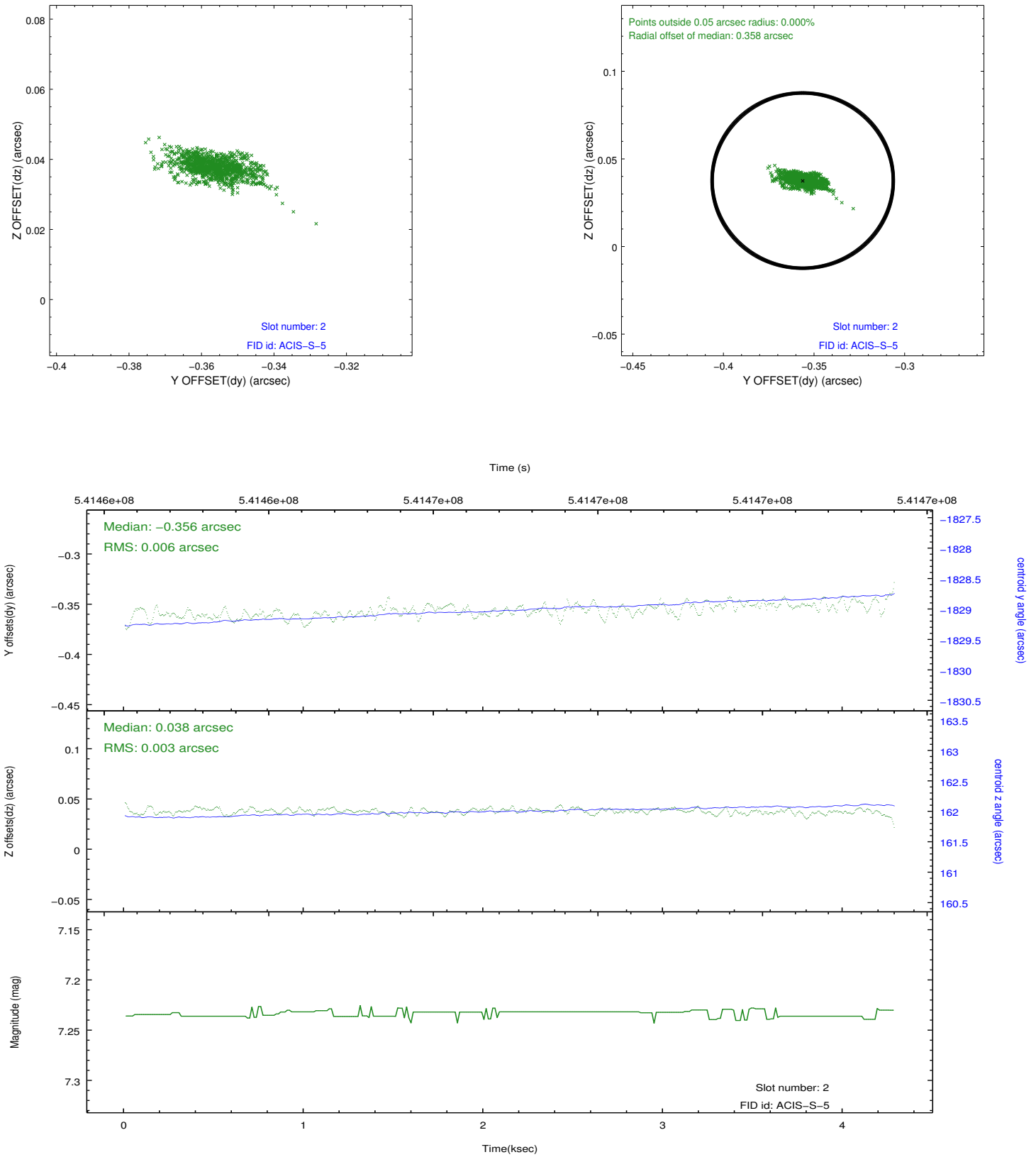
2.5.1 Slot 0



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)	2015.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1633000321388

A.2 Comments