

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 416 - L2 Version 4
Chandra X-Ray Center

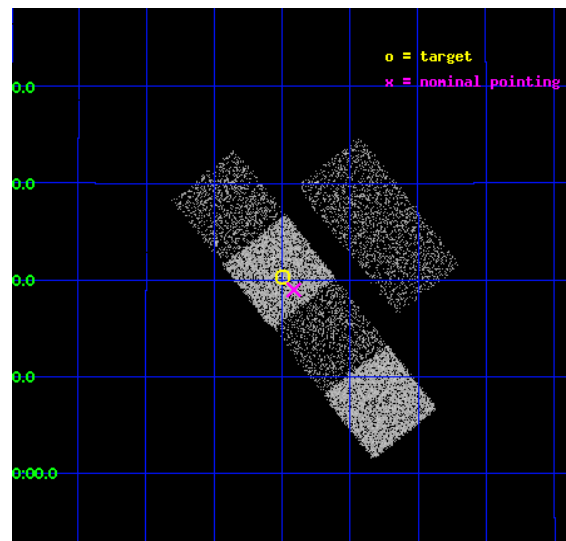
L2 Processing Date : Aug 31 2012

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

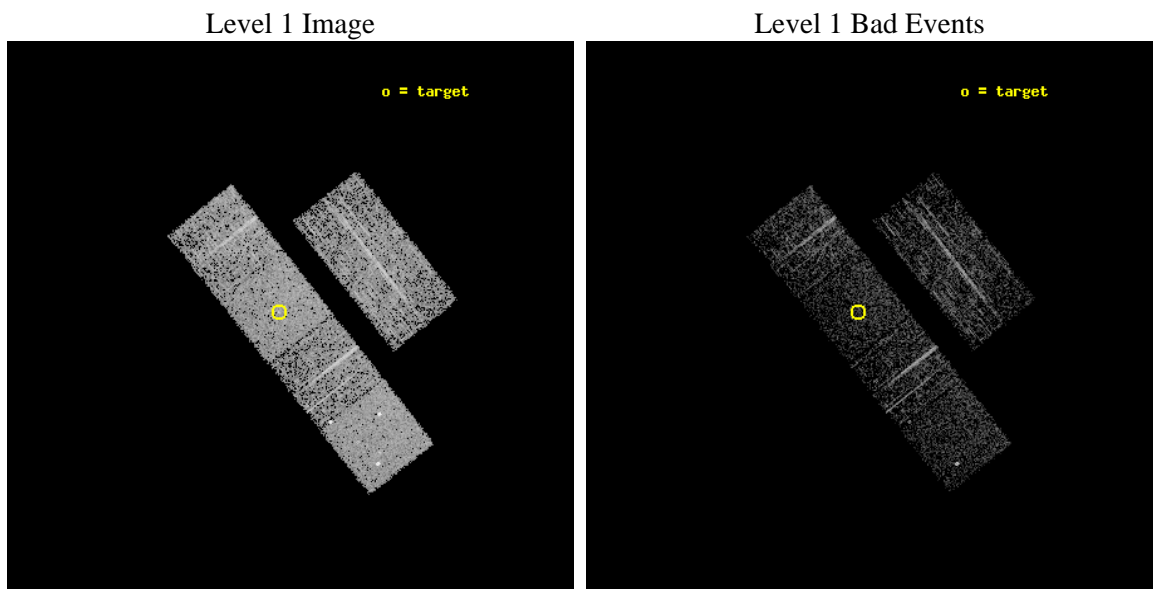
seq_num	700088	Sequence number
obs_id	416	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 6500	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.99875	Observer's specified target RA [deg]
dec_targ	18.338417	Observer's specified target Dec [deg]
ra_nom	268.97822891698	Nominal RA [deg]
dec_nom	18.316575297367	Nominal Dec [deg]
roll_nom	231.74356679608	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2131.2000019699	Sum of GTIs [s]
livetime	2104.2134642904	Livetime [s]
ontime2	2131.2000019699	Sum of GTIs [s]
ontime3	2131.2000019699	Sum of GTIs [s]
ontime5	2131.2000019699	Sum of GTIs [s]
ontime6	2131.2000019699	Sum of GTIs [s]
ontime7	2131.2000019699	Sum of GTIs [s]
ontime8	2131.2000019699	Sum of GTIs [s]
l2events	19009	Number of level 2 events



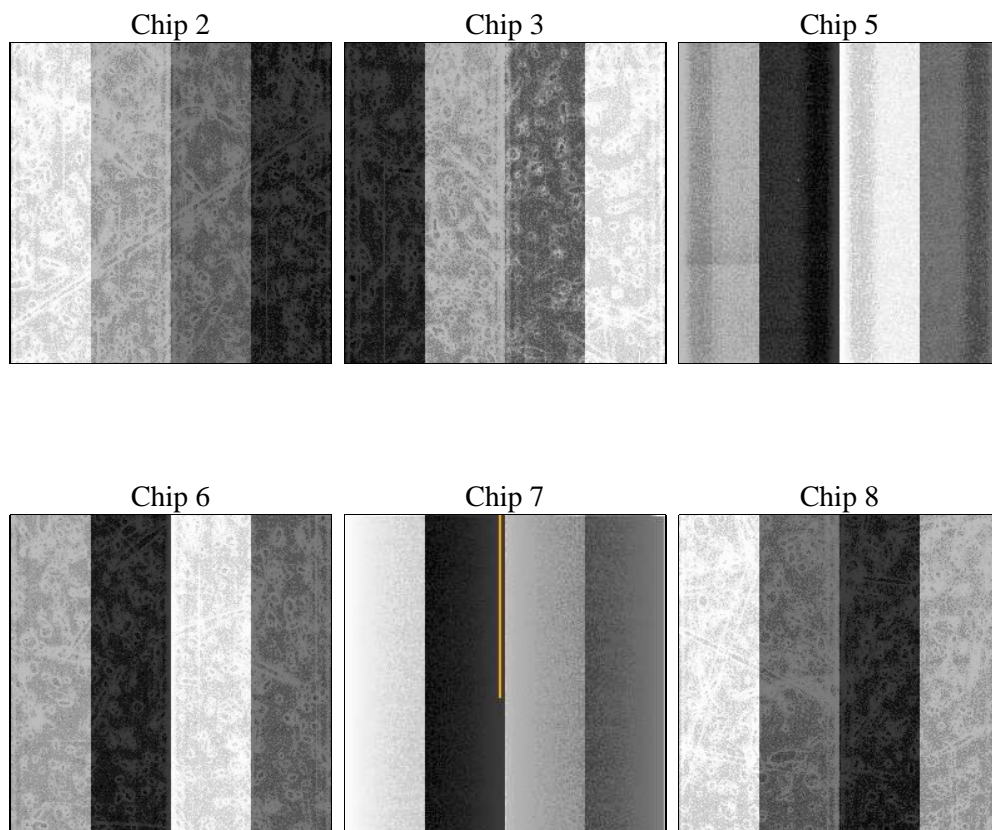
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2131.2000019699	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	2131.2000019699	Sum of GTIs [s]
date	2012-08-31T12:00:41	Date and time of file creation	ontime3	2131.2000019699	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	2131.2000019699	Sum of GTIs [s]
			ontime6	2131.2000019699	Sum of GTIs [s]
			ontime7	2131.2000019699	Sum of GTIs [s]
			ontime8	2131.2000019699	Sum of GTIs [s]
			l1events	96168	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	14223	14002	19314	14250	17056	17323
rejected events	12754	12630	10663	12773	10243	14020
rejected %	89%	90%	55%	89%	60%	80%

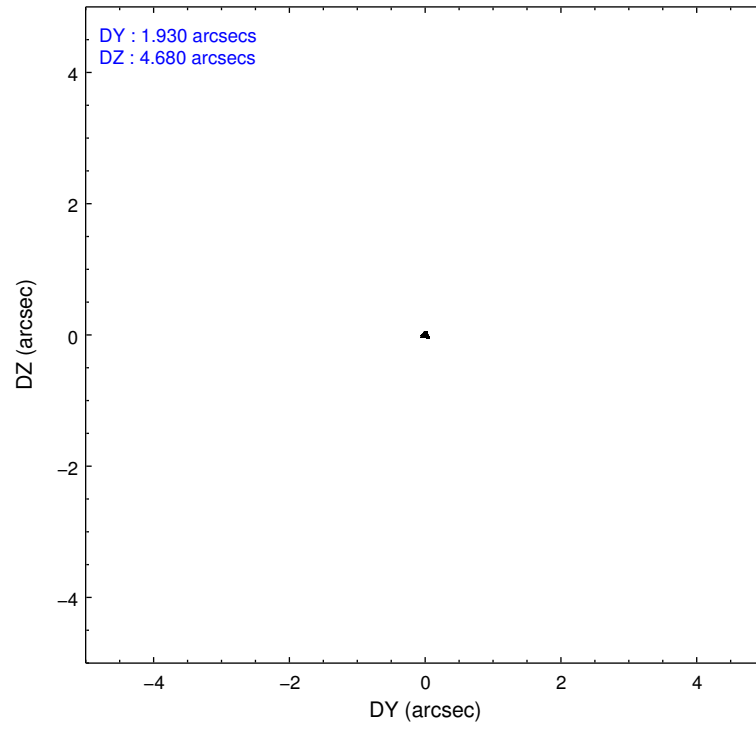
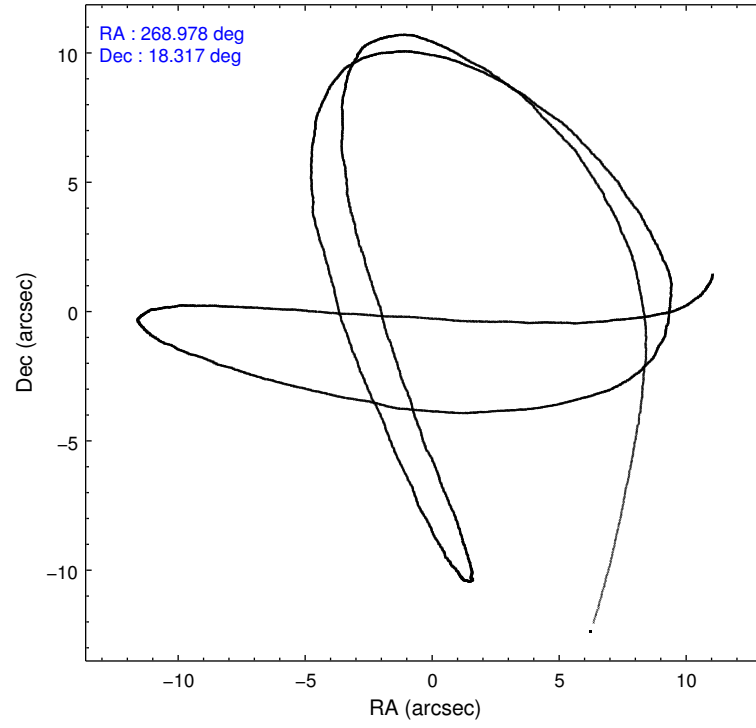
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	742	698	1554	685	793	1144
	5%	4%	8%	4%	4%	6%
grade 1 events	2	1	67	3	18	8
	0%	0%	0%	0%	0%	0%
grade 2 events	320	252	2645	298	1465	749
	2%	1%	13%	2%	8%	4%
grade 3 events	150	140	385	167	665	381
	1%	0%	1%	1%	3%	2%
grade 4 events	130	155	436	170	651	356
	0%	1%	2%	1%	3%	2%
grade 5 events	417	463	1468	518	1649	671
	2%	3%	7%	3%	9%	3%
grade 6 events	241	261	4265	274	3768	883
	1%	1%	22%	1%	22%	5%
grade 7 events	12221	12032	8494	12135	8047	13131
	85%	85%	43%	85%	47%	75%

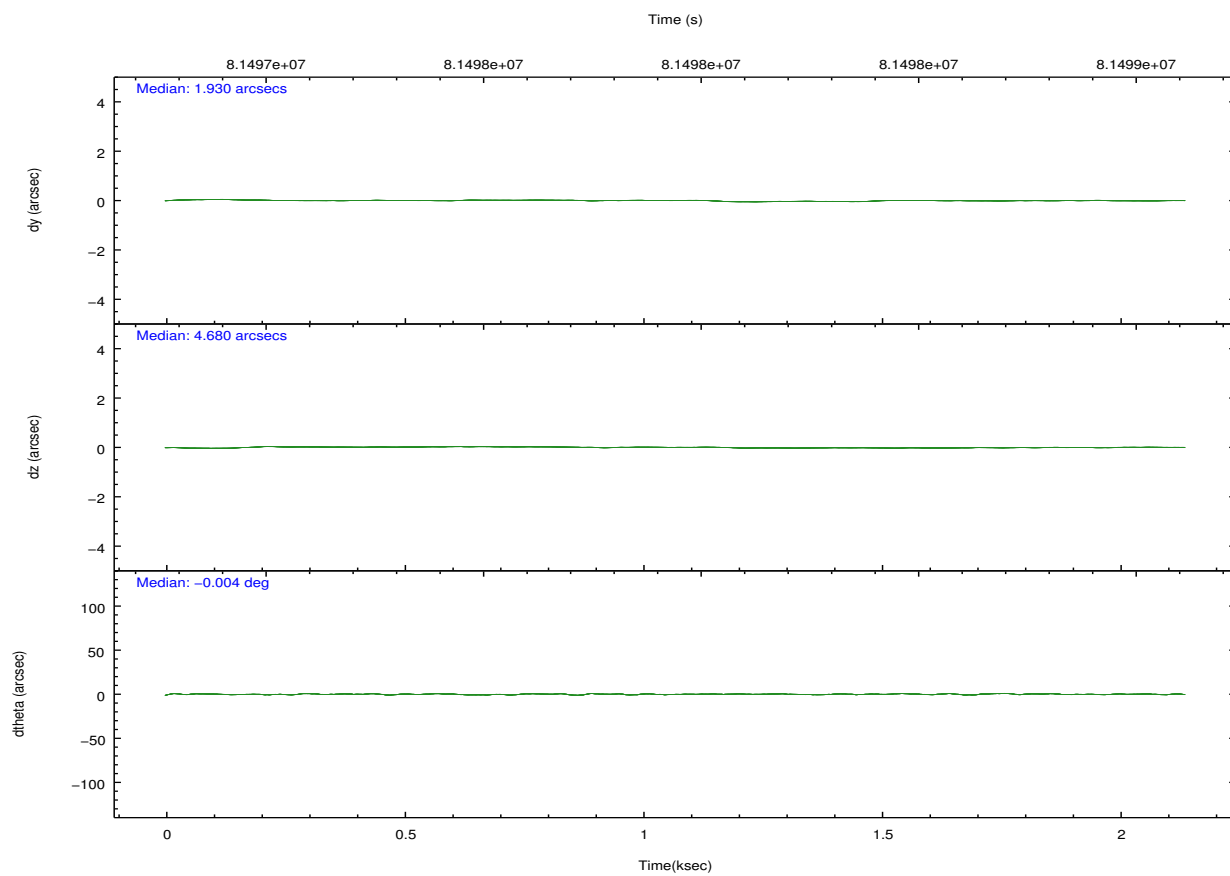
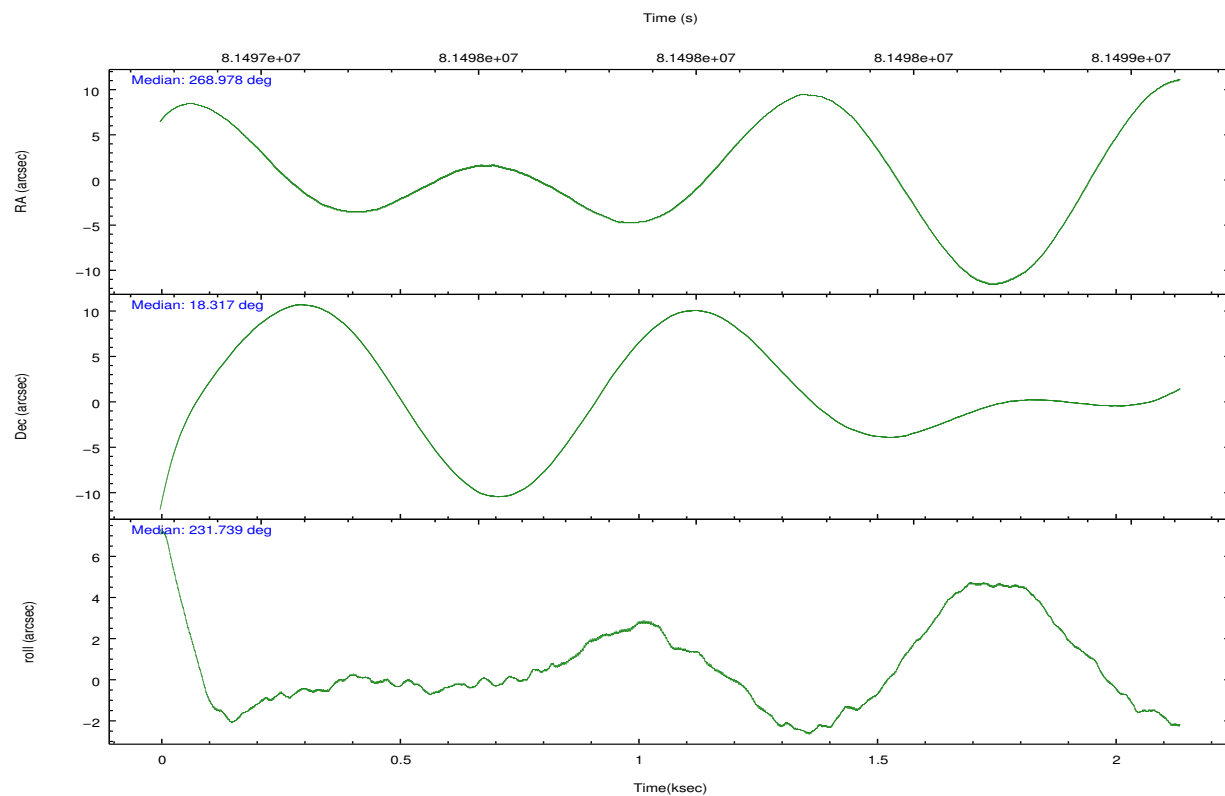
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	268.982102	268.9782289169833
[deg] Pointing Dec	18.343715	18.31657529736714
[deg] Pointing Roll	231.585670	231.7435667960799
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	81497006.184000	81495785.802173
Observation start date	2000-08-01T06:02:22	2000-08-01T05:43:05
[s] Observation end time (MET)	81499006.184000	81499871.452325
Observation end date	2000-08-01T06:35:42	2000-08-01T06:51:11
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	3.2

2.3 Aspect



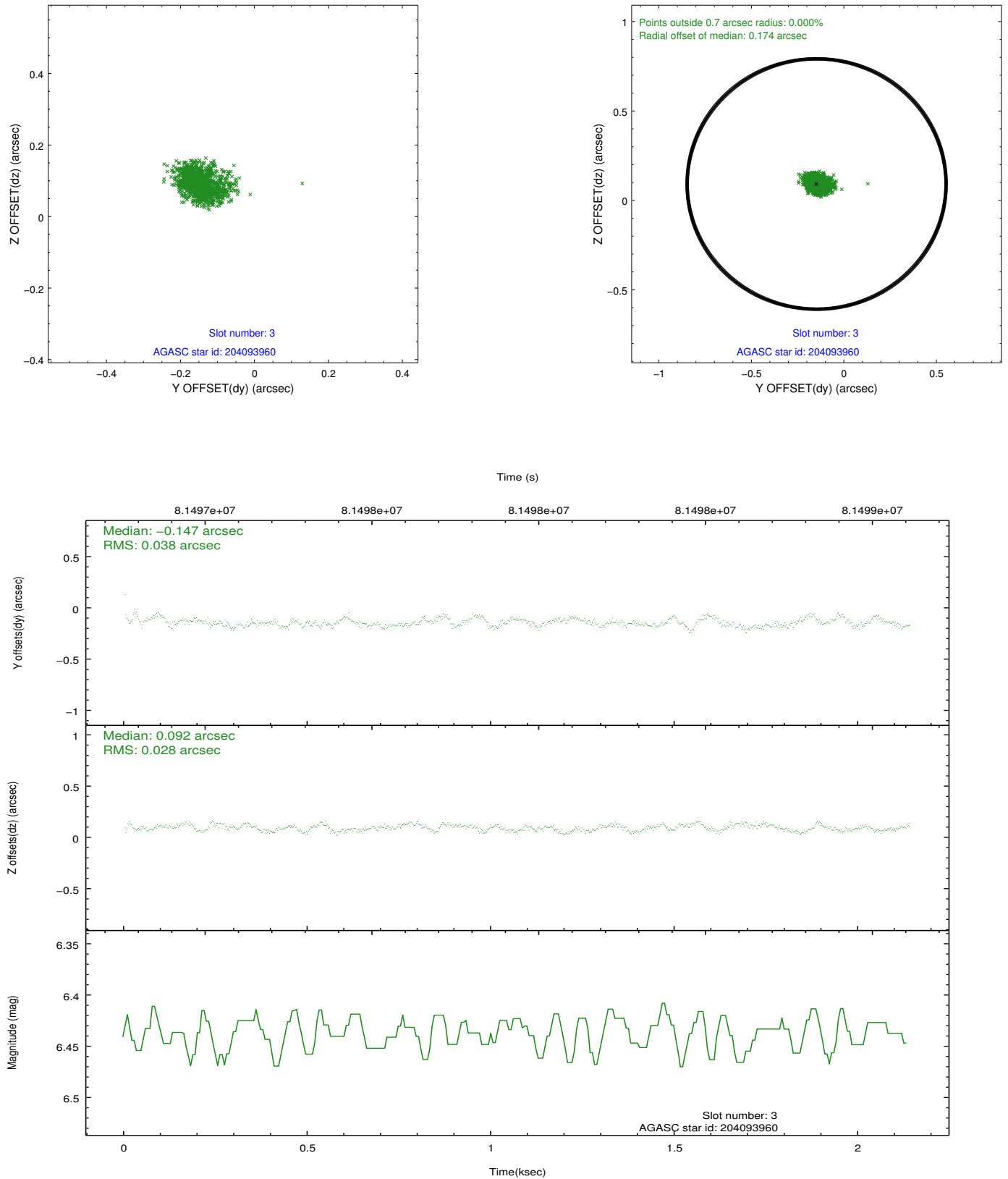


Slot Statistics

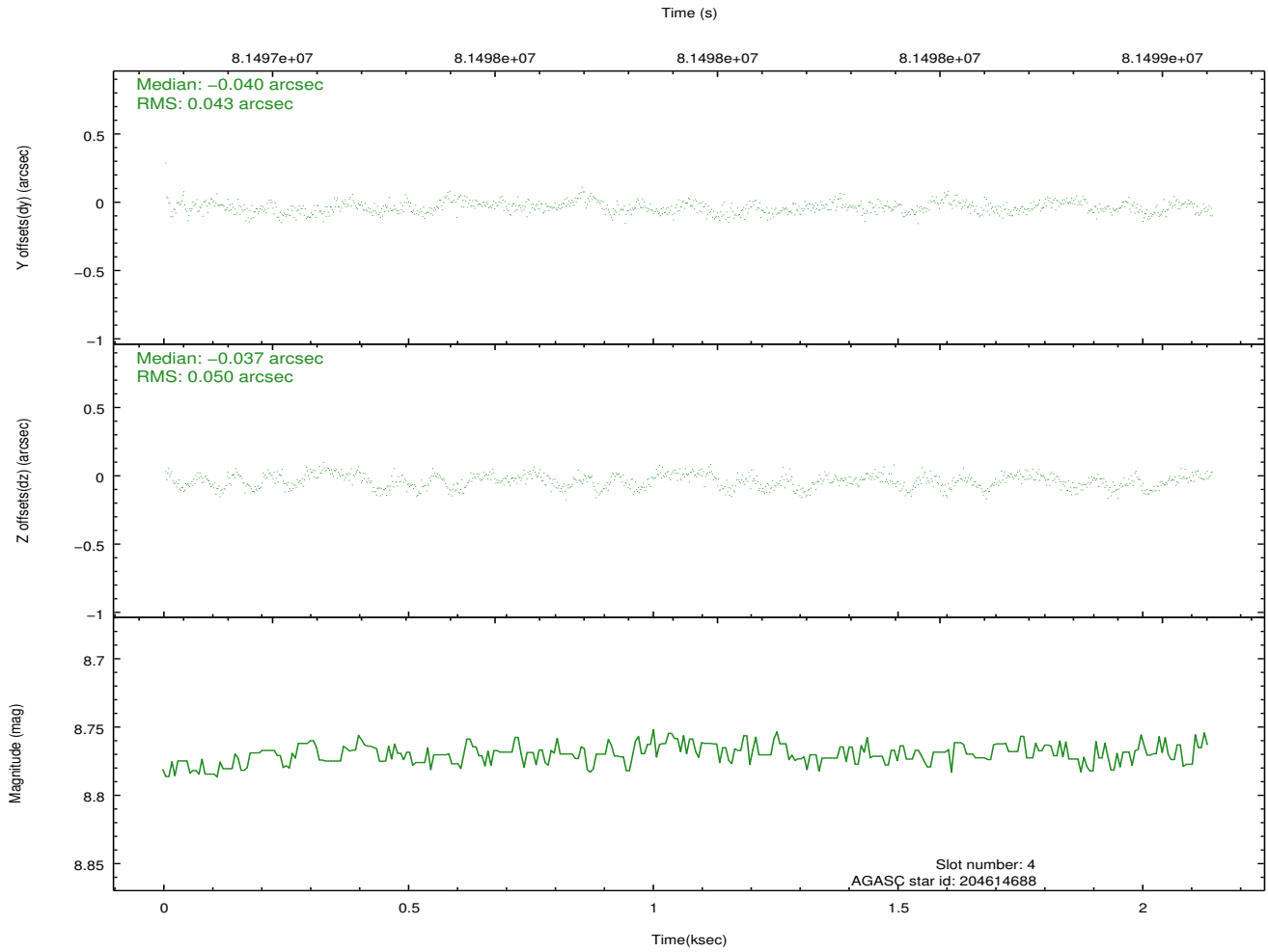
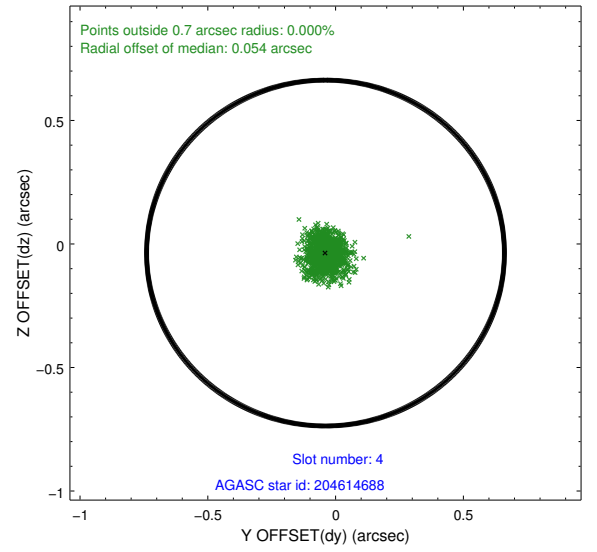
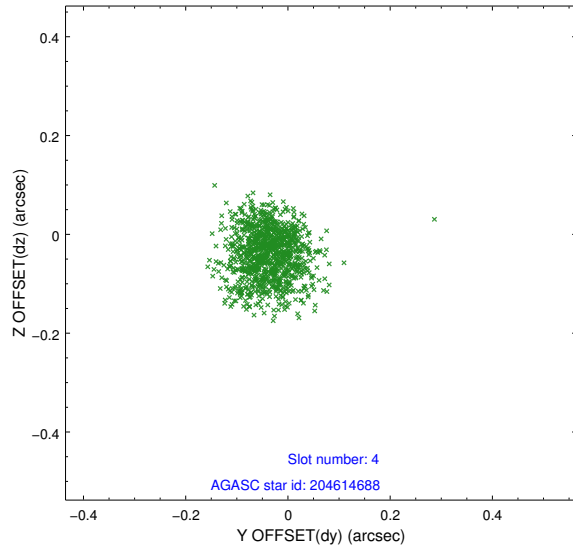
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	522	-0.028	-0.008	0.006	0.011	0.000000	0.000000	-754.56	-1725.74
1	FID	ACIS-S-4	7.21	521	-0.009	0.015	0.006	0.012	0.000000	0.000000	2157.35	179.62
2	FID	ACIS-S-5	7.24	522	0.005	0.002	0.006	0.011	0.000000	0.000000	-1803.45	176.75
3	GUIDE	204093960	6.44	1044	-0.147	0.092	0.050	0.079	269.158116	18.612427	-1131.04	-130.43
4	GUIDE	204614688	8.77	1044	-0.040	-0.037	0.070	0.112	269.042898	18.986292	-1941.72	-1275.35
5	GUIDE	204090096	9.45	1043	0.057	-0.040	0.090	0.147	269.313474	17.815179	782.91	2070.53
6	GUIDE	204084616	8.51	1044	0.030	-0.109	0.065	0.102	268.495599	18.564286	409.11	-1793.56
7	GUIDE	204086416	8.63	1043	0.108	0.097	0.058	0.091	268.577725	17.900430	2110.96	-96.08

2.4 Star Slots

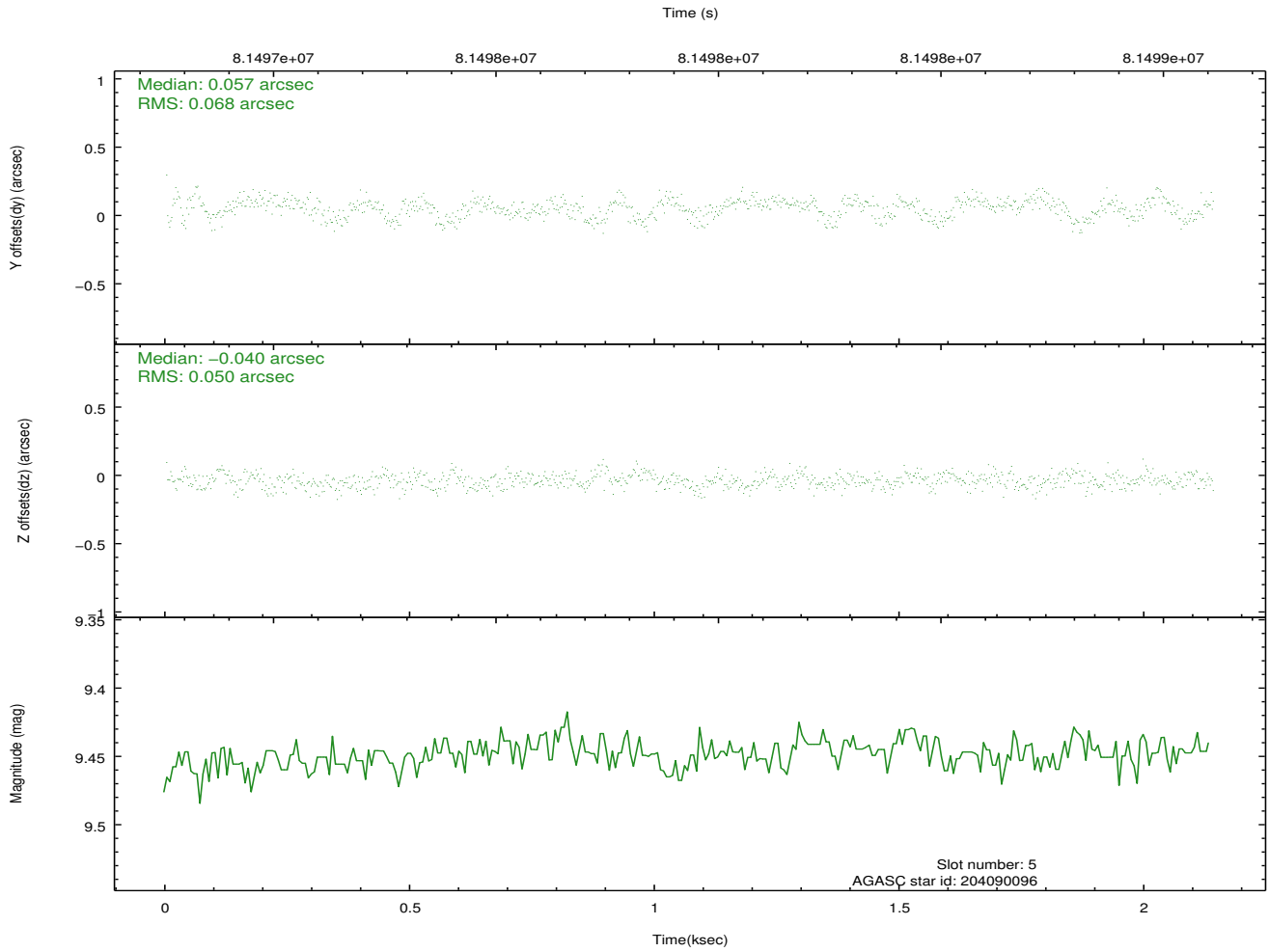
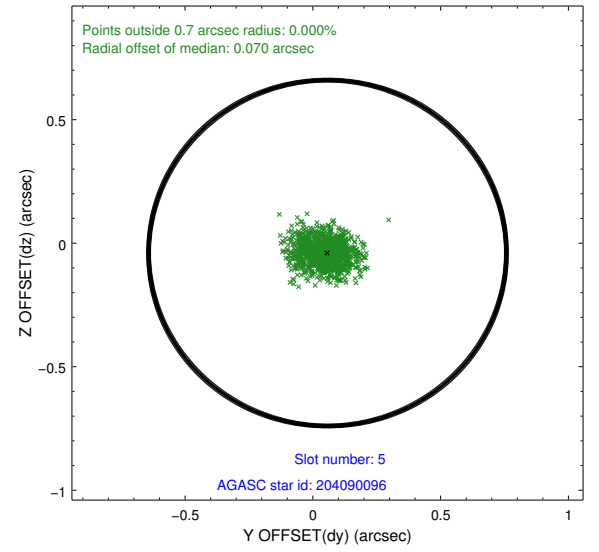
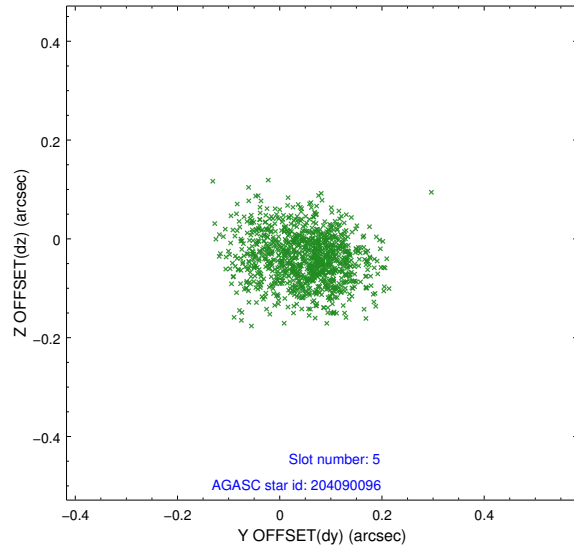
2.4.1 Slot 3



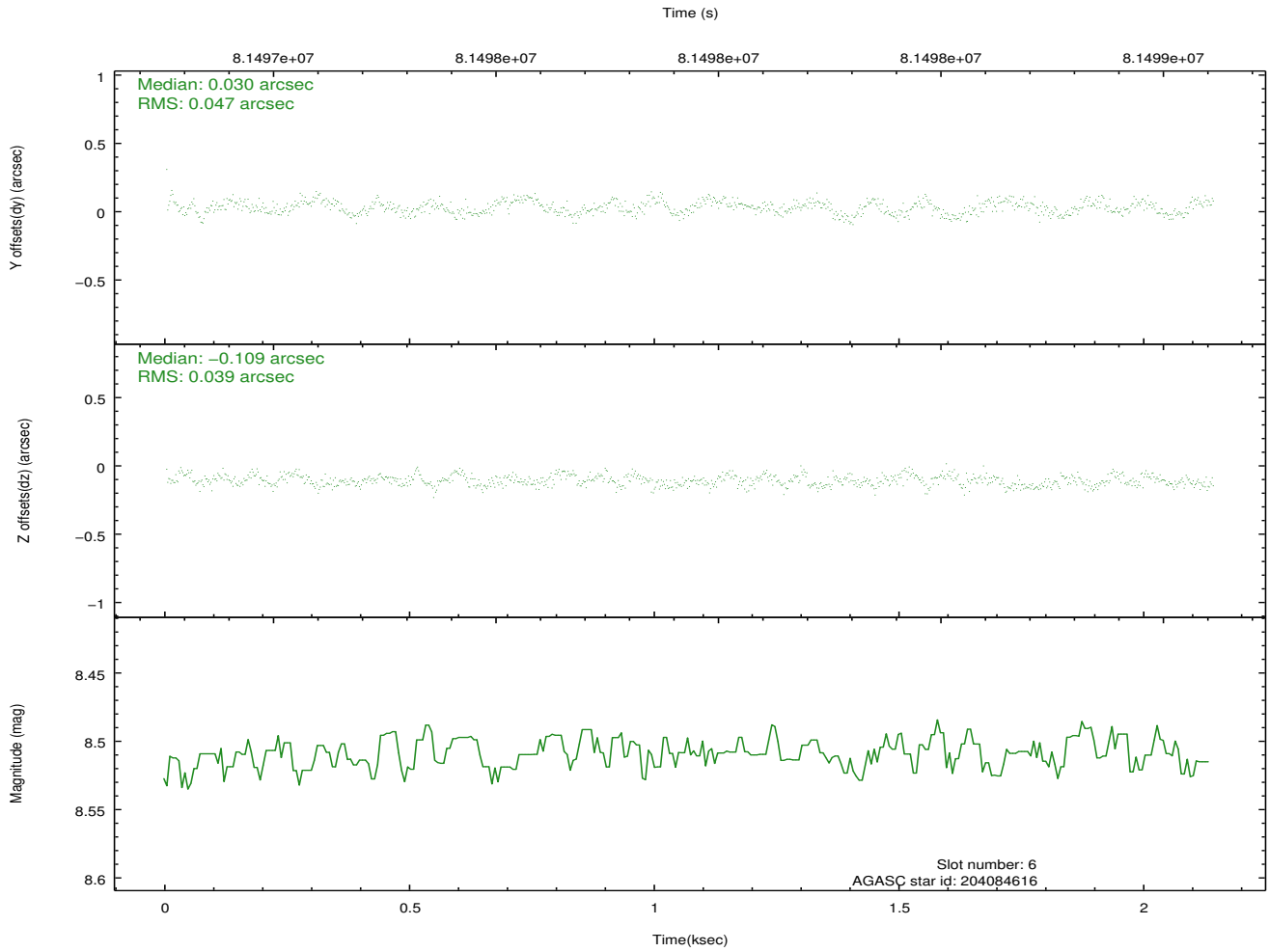
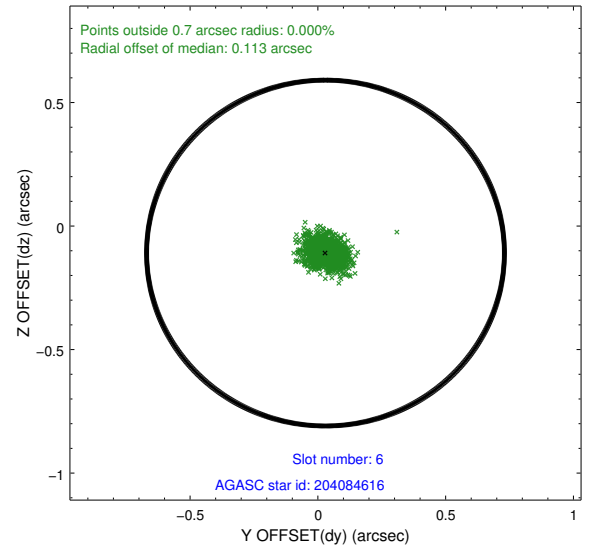
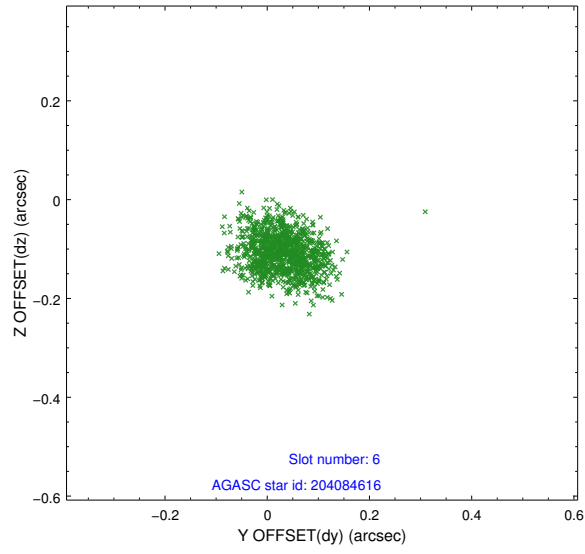
2.4.2 Slot 4



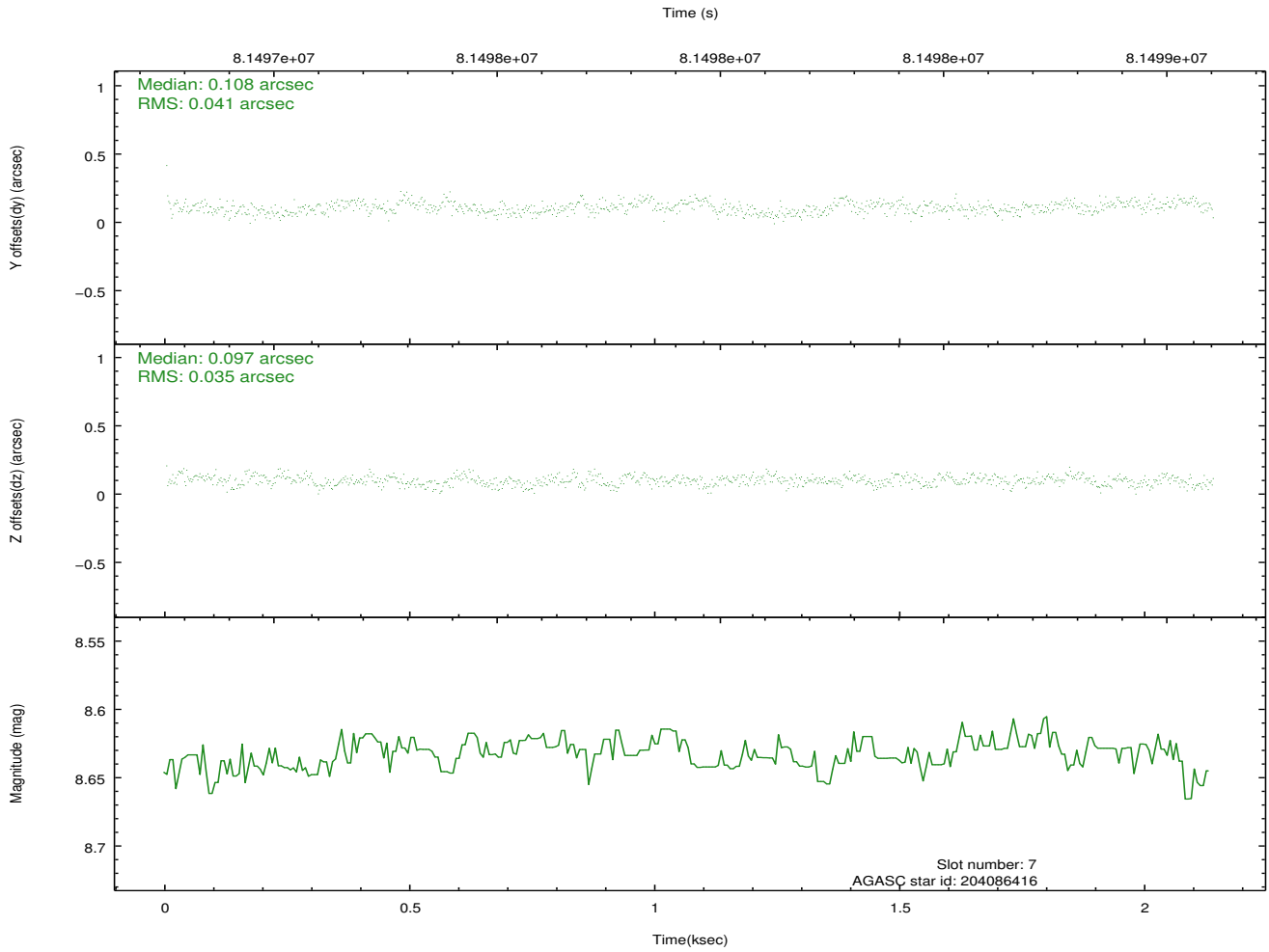
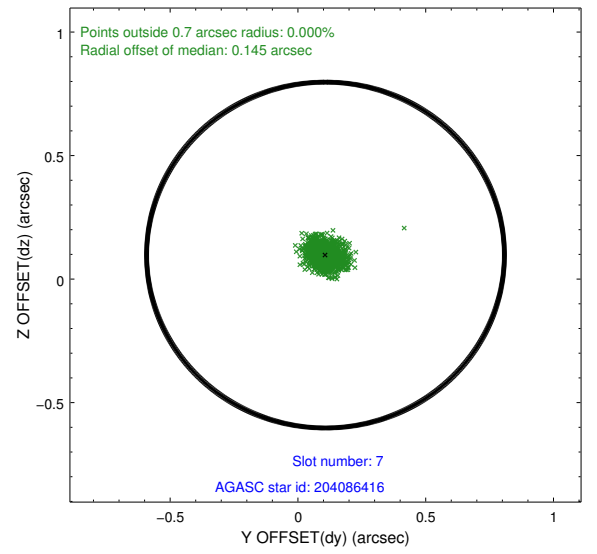
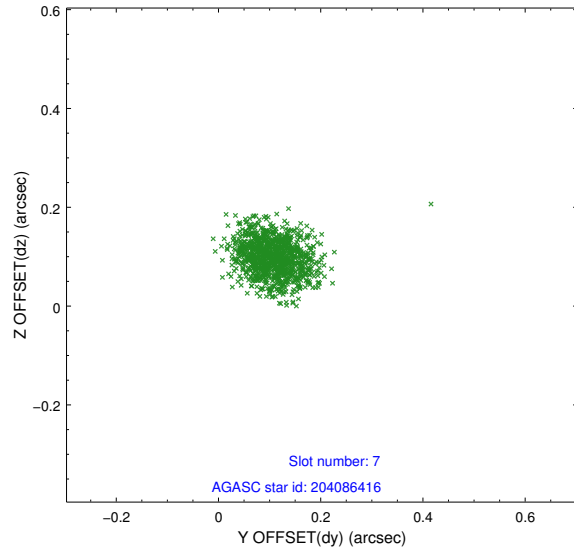
2.4.3 Slot 5



2.4.4 Slot 6

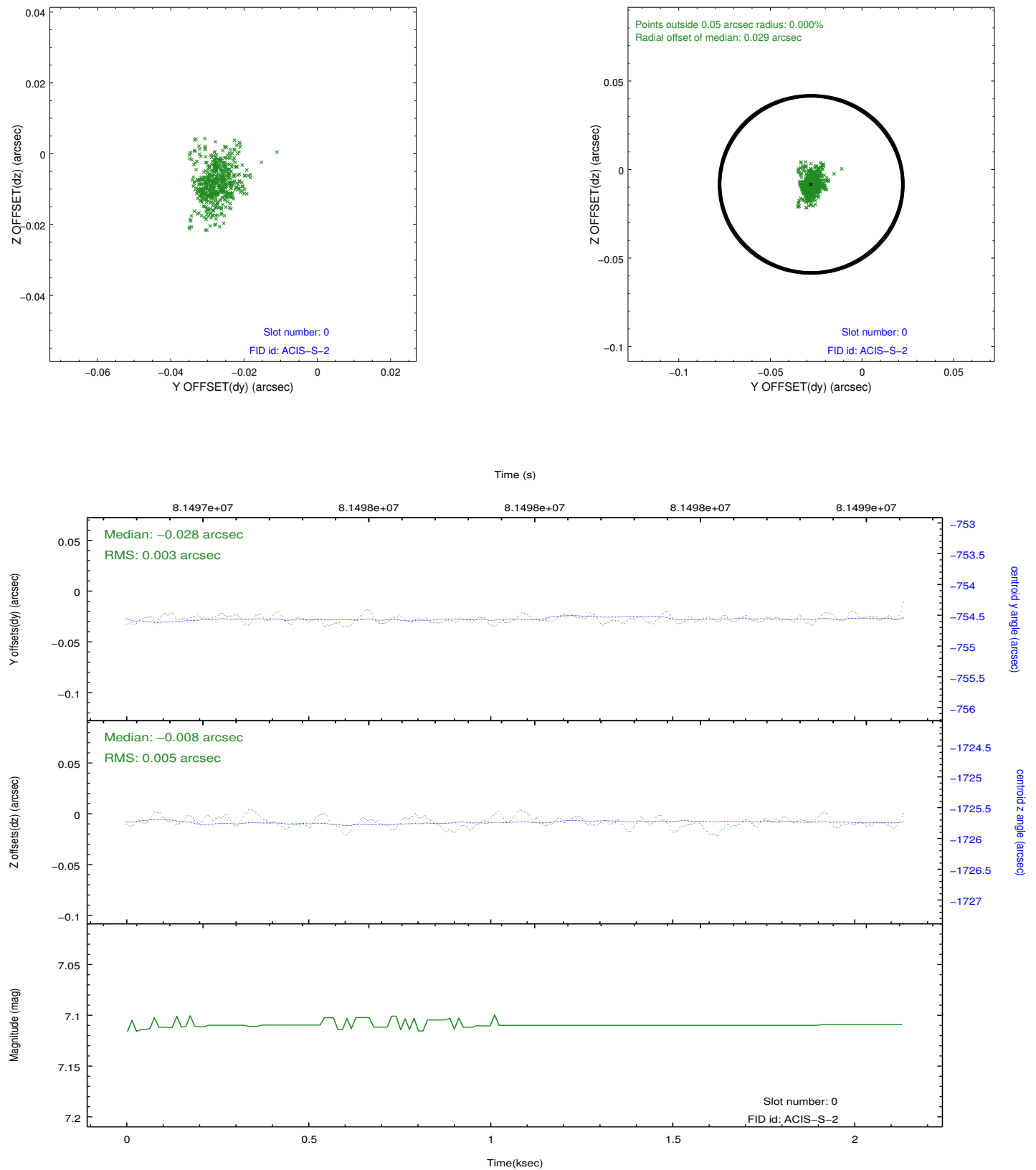


2.4.5 Slot 7

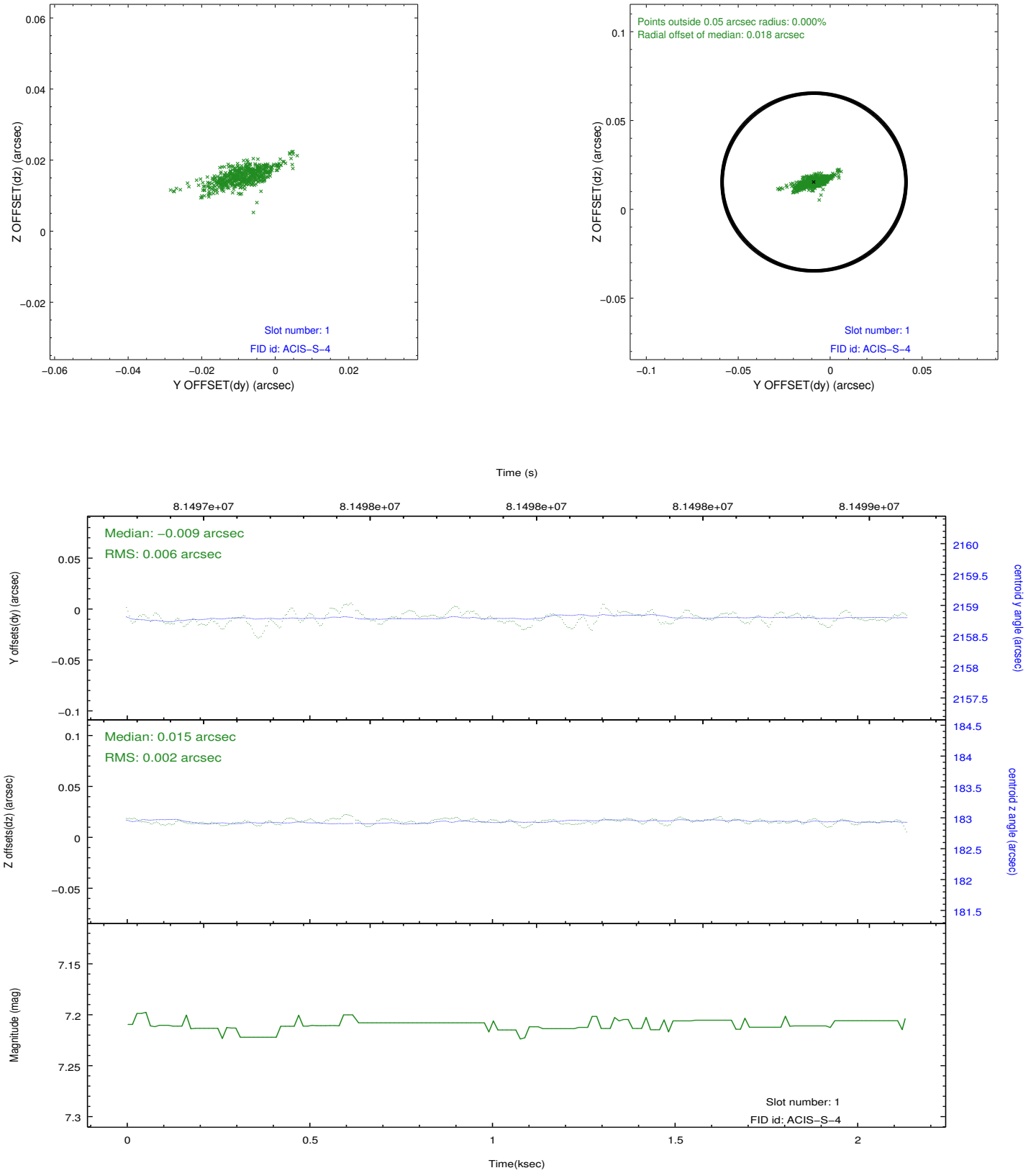


2.5 FID Slots

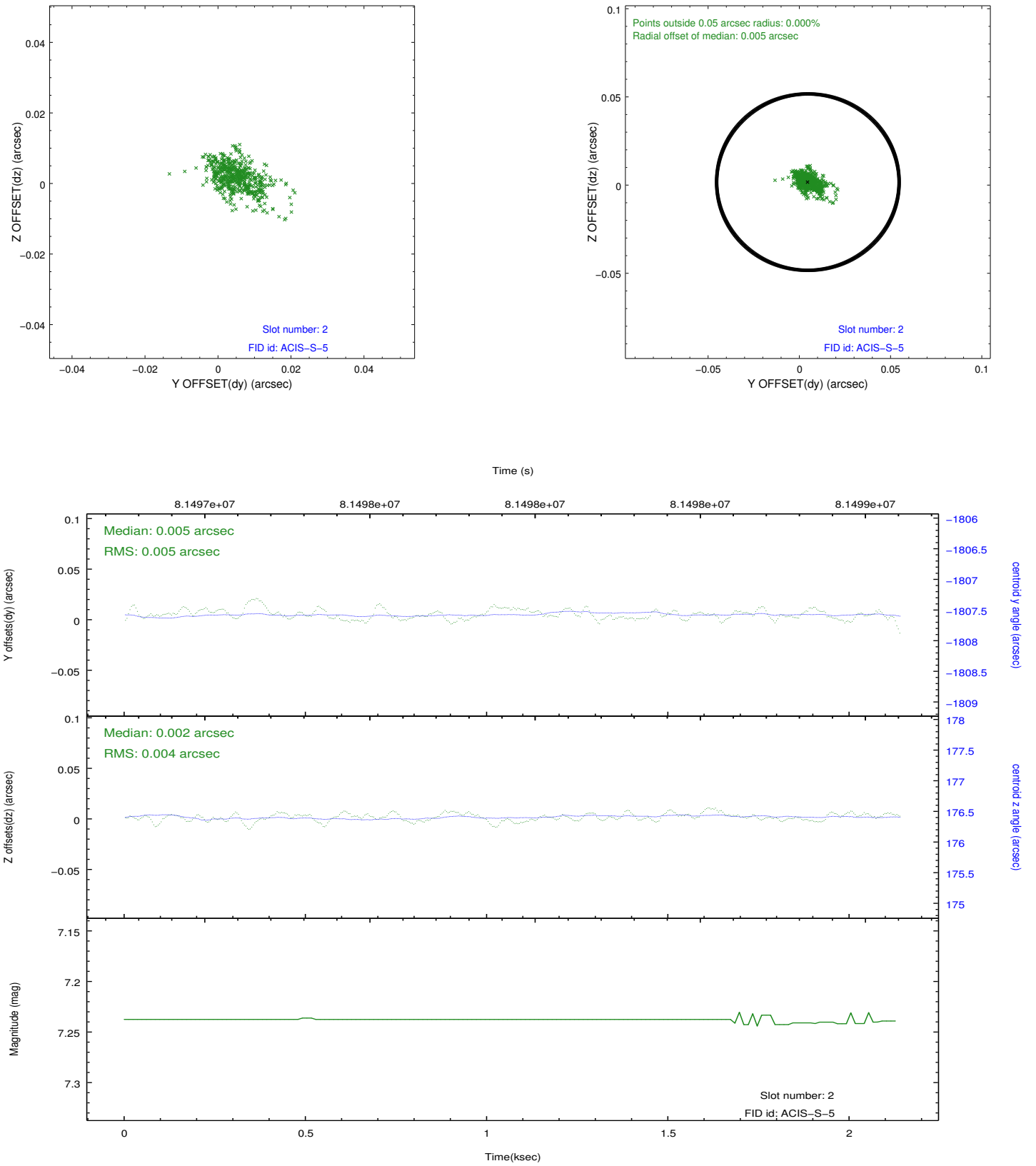
2.5.1 Slot 0



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)	2012.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.131

A.2 Comments