

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16126 - L2 Version 1
Chandra X-Ray Center

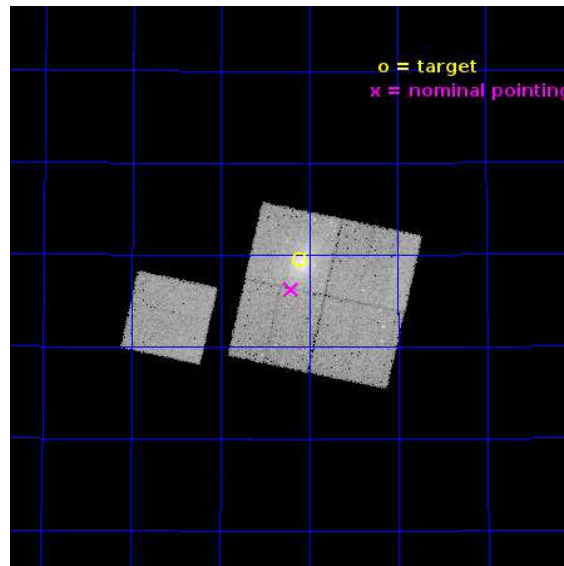
L2 Processing Date : Aug 8 2014

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

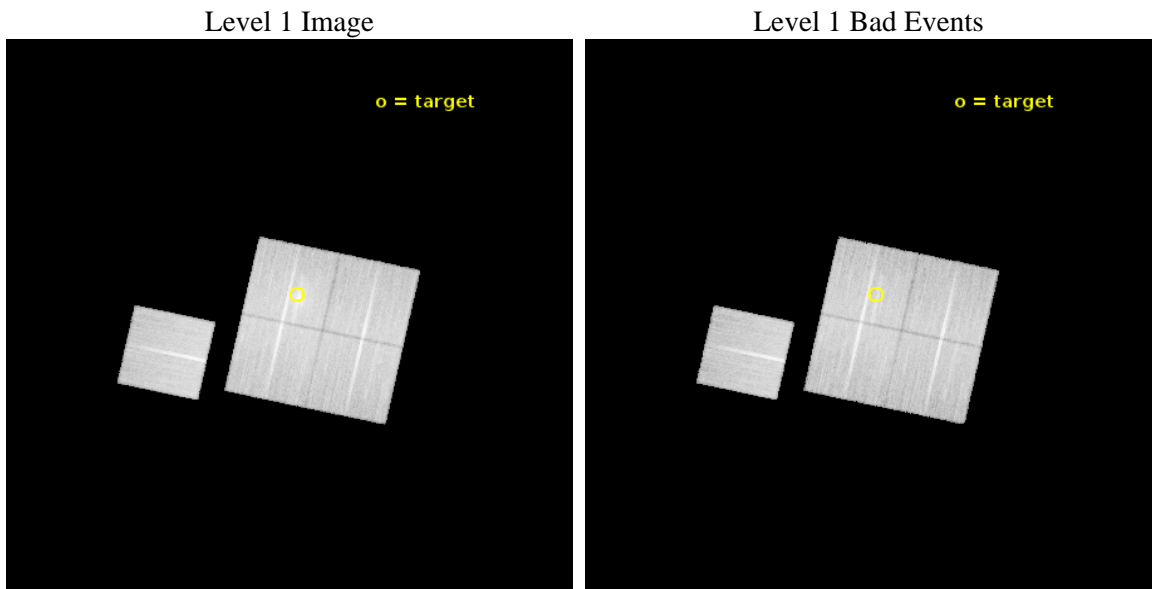
seq_num	801380	Sequence number
obs_id	16126	Observation id
title	Probing with X-ray the mass distribution in the lensing cluster A1703	Proposal title
observer	Dr Fabio Gastaldello	Principal investigator
object	Abell 1703	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.778	Observer's specified target RA [deg]
dec_targ	51.824	Observer's specified target Dec [deg]
ra_nom	198.80041137233	Nominal RA [deg]
dec_nom	51.771262621748	Nominal Dec [deg]
roll_nom	282.33621581109	Nominal Roll [deg]
revision	1	Processing version of data
ontime	49085.400377512	Sum of GTIs [s]
livetime	48444.063485434	Livetime [s]
ontime0	49079.118436694	Sum of GTIs [s]
ontime1	49085.400377512	Sum of GTIs [s]
ontime2	49082.259417117	Sum of GTIs [s]
ontime3	49085.400377512	Sum of GTIs [s]
ontime6	49082.259407163	Sum of GTIs [s]
l2events	141374	Number of level 2 events



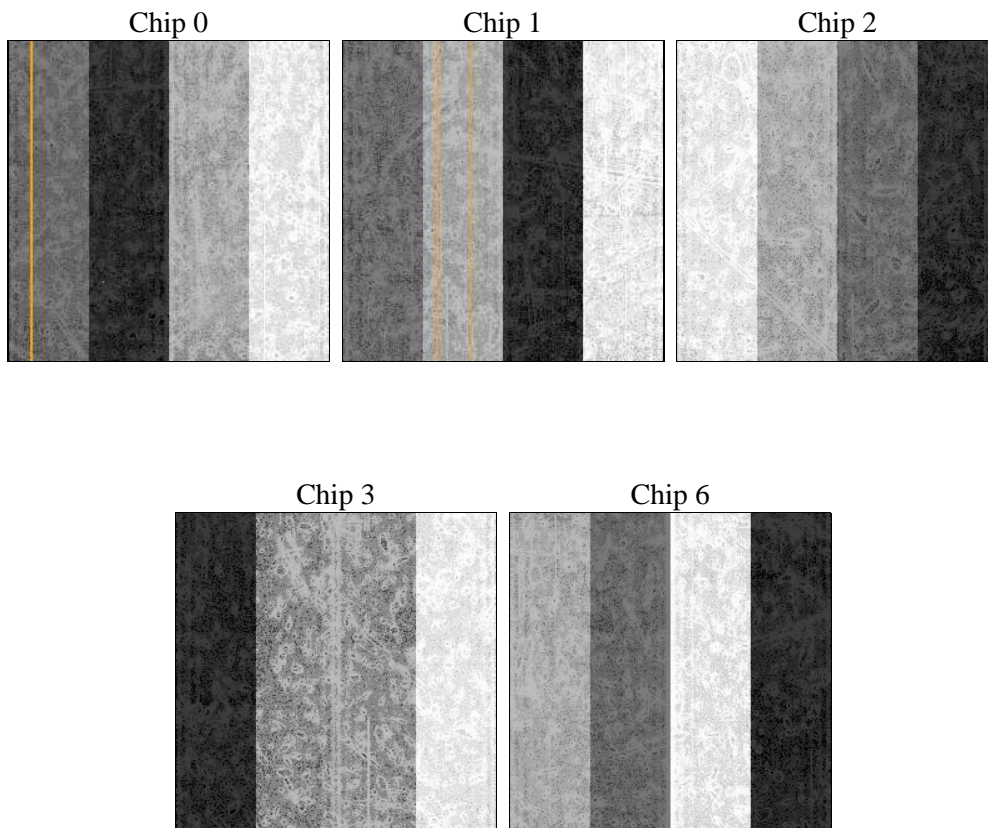
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	49000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	49085.400377512	Sum of GTIs [s]
caldbver	4.6.2	 	ontime0	49079.118436694	Sum of GTIs [s]
date	2014-08-08T04:54:30	Date and time of file creation	ontime1	49085.400377512	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	49082.259417117	Sum of GTIs [s]
			ontime3	49085.400377512	Sum of GTIs [s]
			ontime6	49082.259407163	Sum of GTIs [s]
			l1events	1174809	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	217576	222562	237793	257985	238893
rejected events	189179	190986	209602	210108	210729
rejected %	86%	85%	88%	81%	88%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9698	10812	10132	26617	9260
	4%	4%	4%	10%	3%
grade 1 events	119	112	145	219	102
	0%	0%	0%	0%	0%
grade 2 events	7147	7793	6992	8040	6394
	3%	3%	2%	3%	2%
grade 3 events	2902	3101	2783	3453	2850
	1%	1%	1%	1%	1%
grade 4 events	2768	3091	2766	3459	2941
	1%	1%	1%	1%	1%
grade 5 events	11325	12092	10741	12946	12354
	5%	5%	4%	5%	5%
grade 6 events	5887	6780	5523	6309	6727
	2%	3%	2%	2%	2%
grade 7 events	177730	178781	198711	196942	198265
	81%	80%	83%	76%	82%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	198.770249	198.8004113723286	CCD I2 on	Y	Y
[deg] Pointing Dec	51.791610	51.77126262174808	CCD I3 on	Y	Y
[deg] Pointing Roll	282.151228	282.3362158110934	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	523786886.184000	523785442.62241	CCD S5 on	N	N
Observation start date	2014-08-07T08:20:19	2014-08-07T07:57:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	523835886.184000	523836895.57527	On-chip summing requested	N	N
Observation end date	2014-08-07T21:56:59	2014-08-07T22:14:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

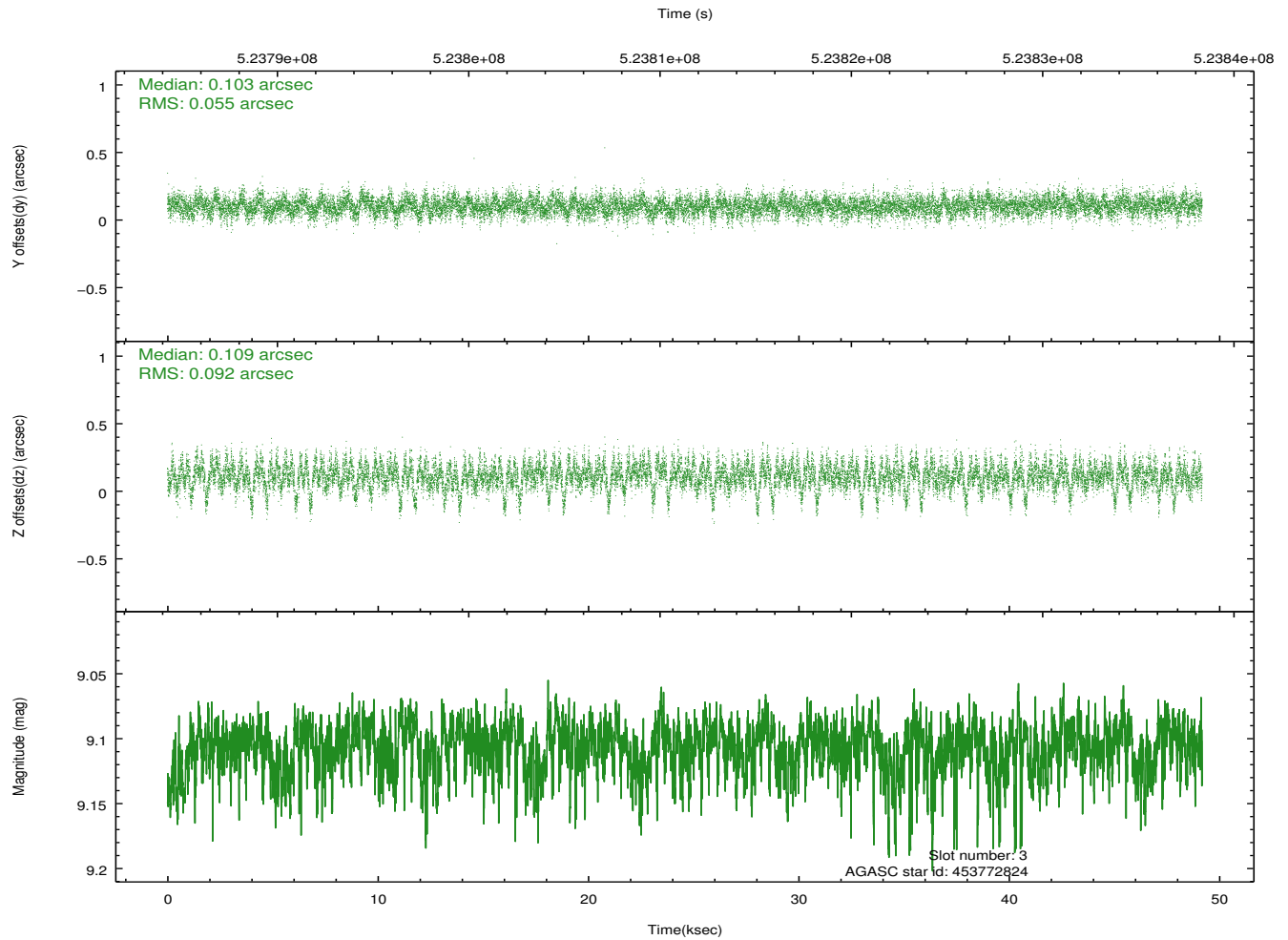
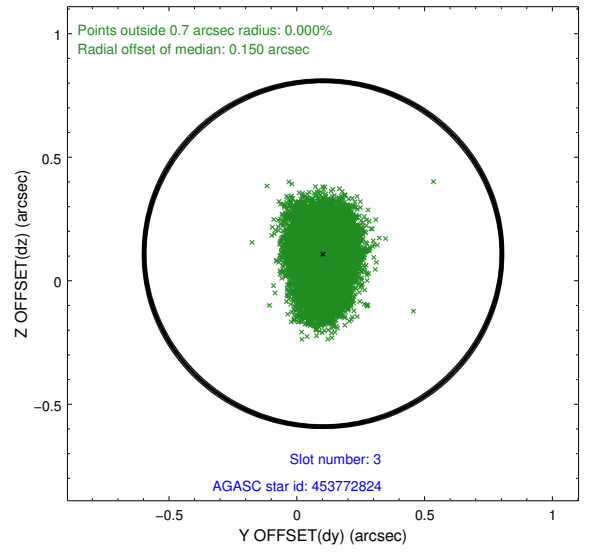
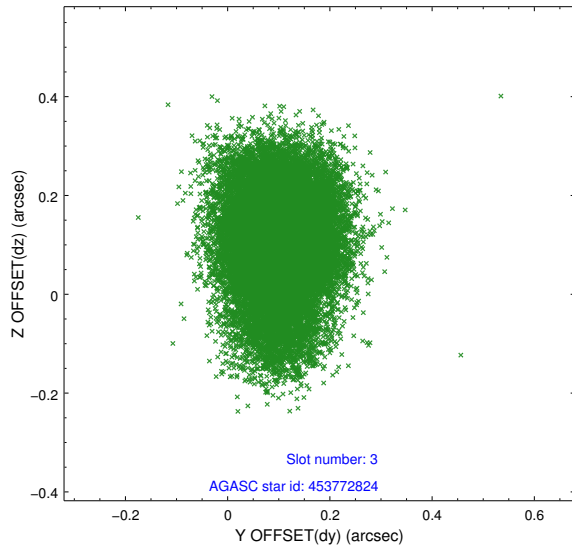
2.3 Aspect

Slot Statistics

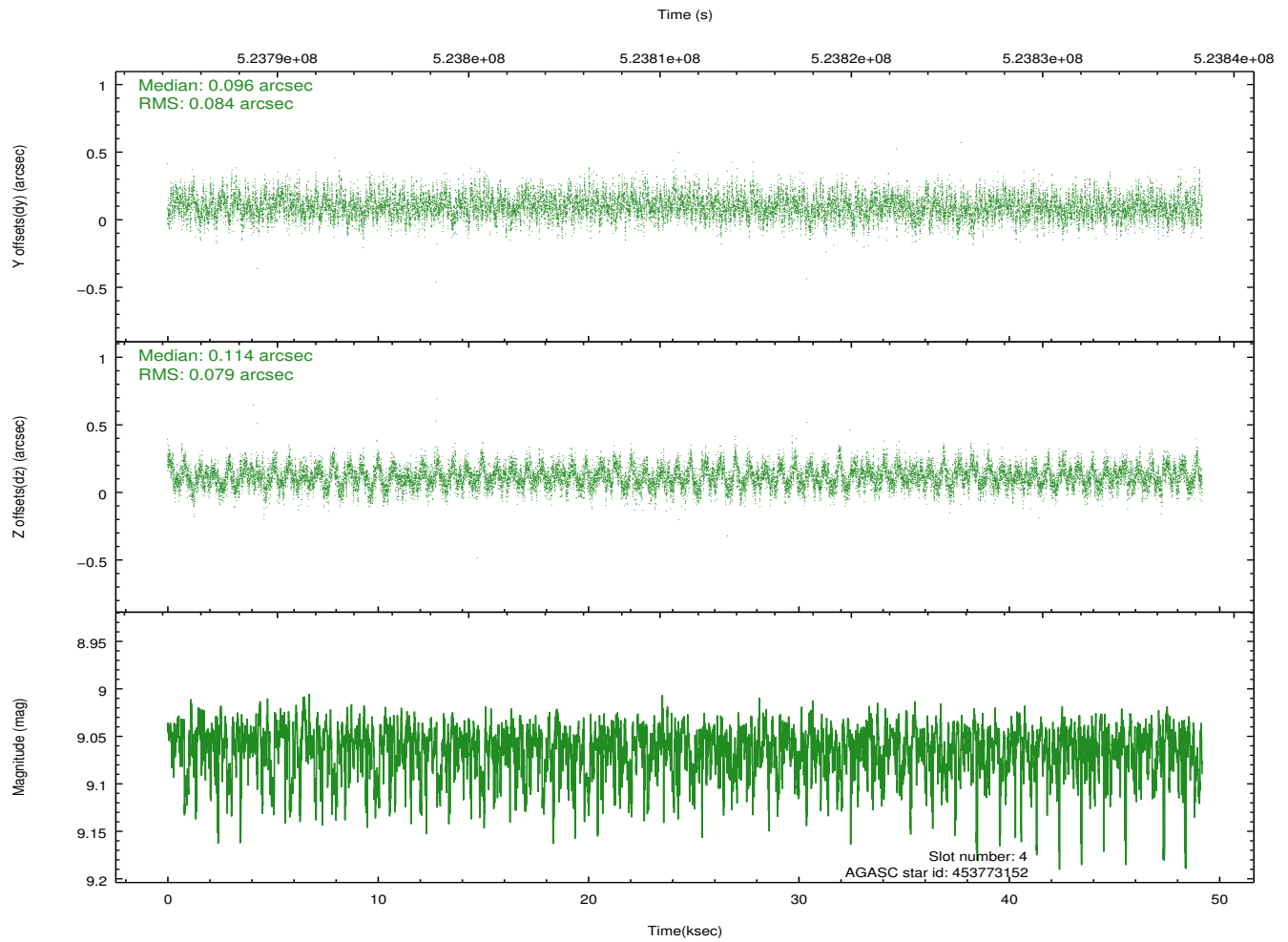
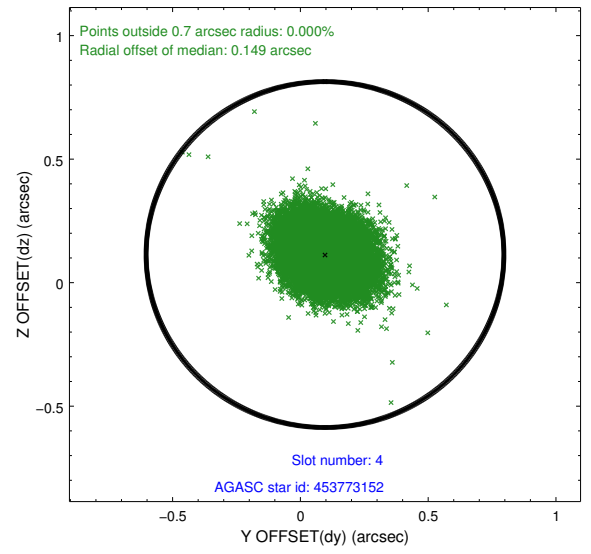
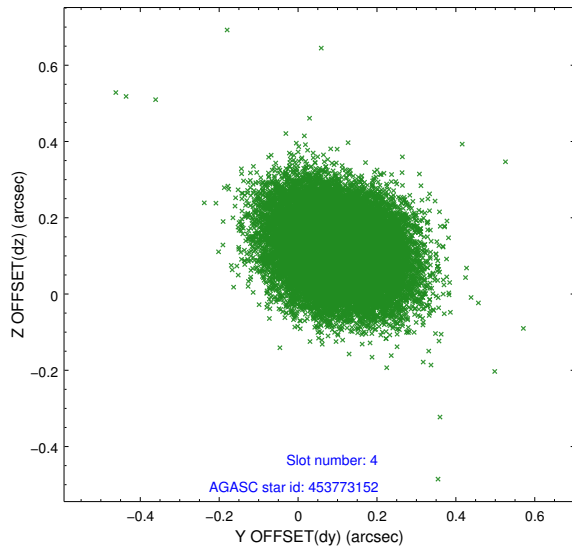
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	11995	0.085	-0.044	0.011	0.019	0.000000	0.000000	913.00	-1007.34
1	FID	ACIS-I-5	7.06	11995	-0.328	0.054	0.007	0.012	0.000000	0.000000	-1835.62	890.10
2	FID	ACIS-I-6	7.06	11995	0.151	0.061	0.011	0.019	0.000000	0.000000	378.50	1534.71
3	GUIDE	453772824	9.11	23982	0.103	0.109	0.110	0.198	198.830021	52.277852	-1681.42	498.10
4	GUIDE	453773152	9.06	23974	0.096	0.114	0.122	0.199	198.339353	51.123859	2142.67	-1457.18
5	GUIDE	453774368	7.20	23991	0.089	0.133	0.099	0.154	198.203244	51.899857	-650.38	-1148.35
6	GUIDE	453782192	9.33	23977	-0.148	-0.148	0.136	0.212	199.534740	51.497959	1384.46	1453.24
7	GUIDE	453782416	9.35	23966	-0.134	-0.216	0.219	0.305	199.391215	51.406077	1644.67	1072.73

2.4 Star Slots

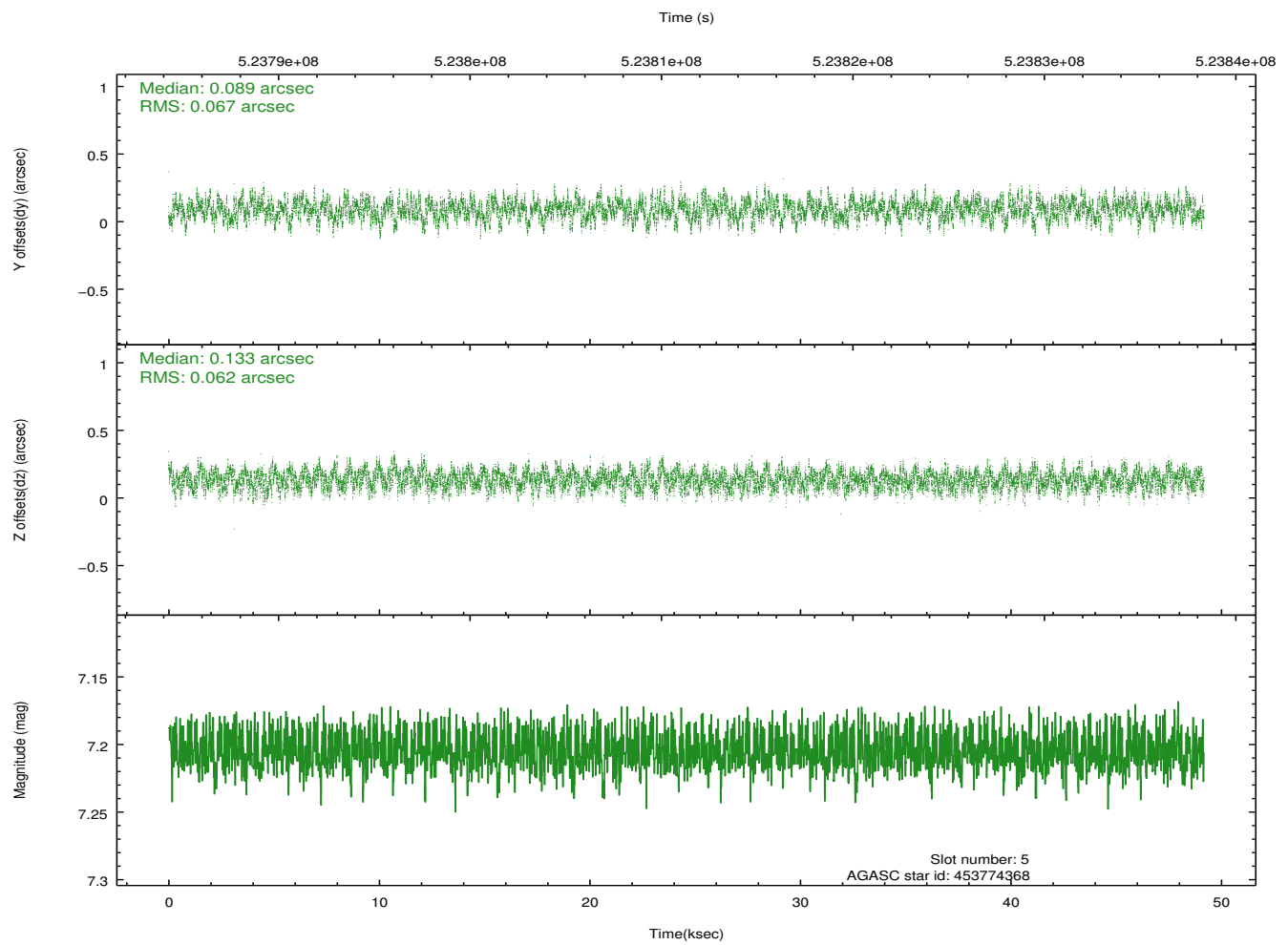
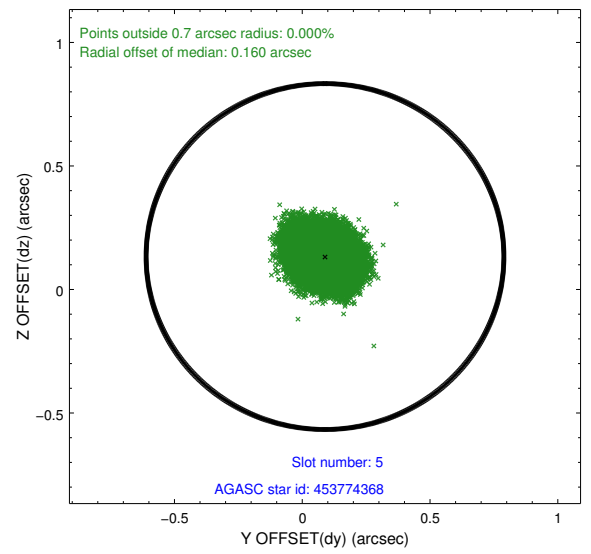
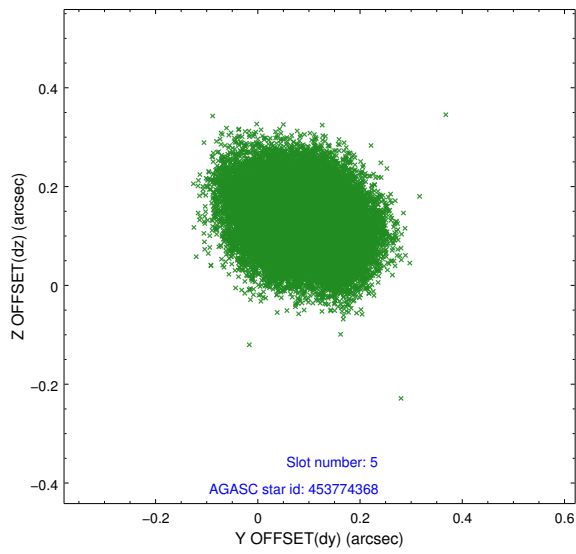
2.4.1 Slot 3



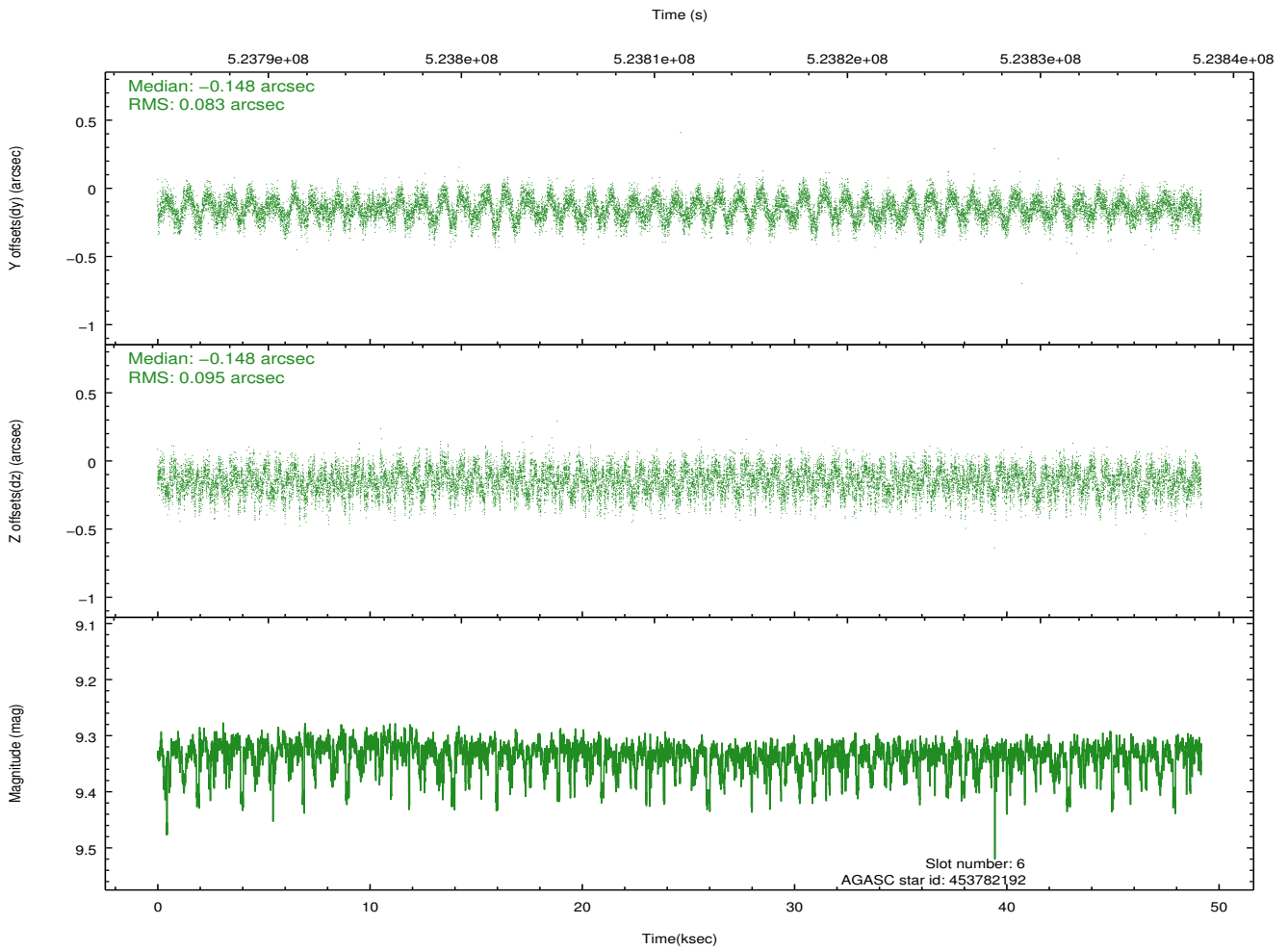
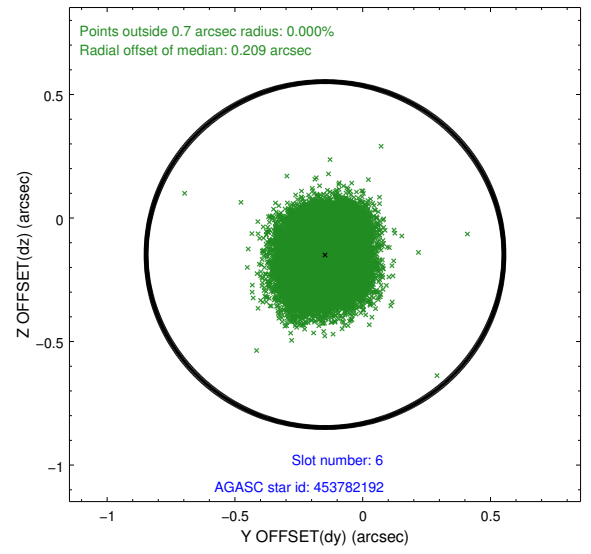
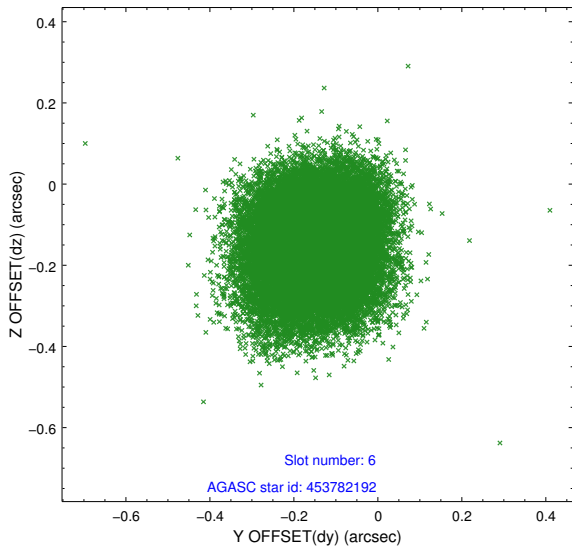
2.4.2 Slot 4



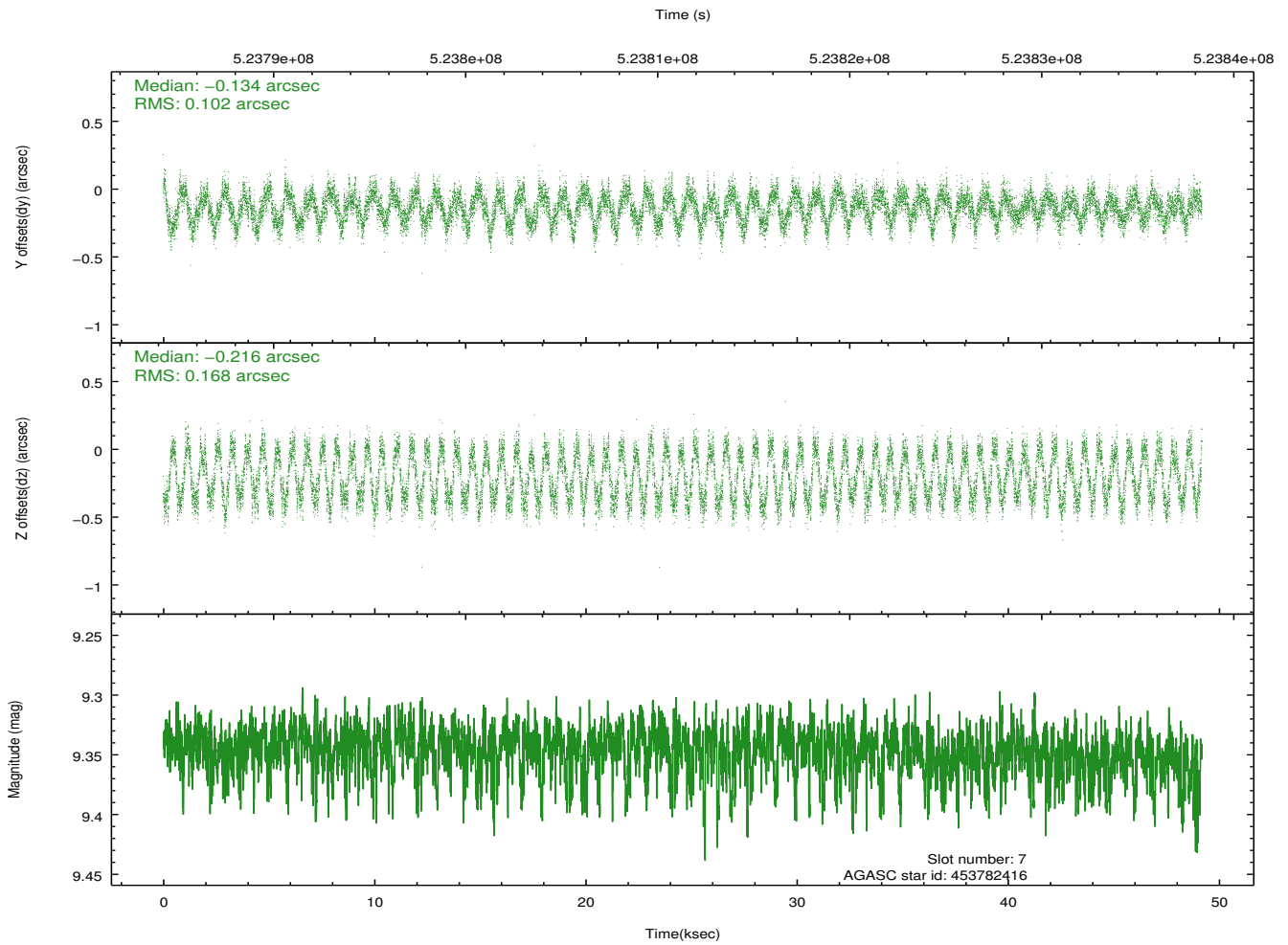
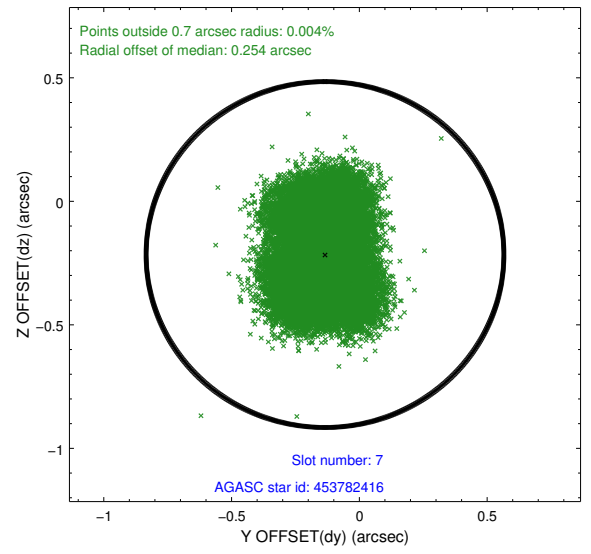
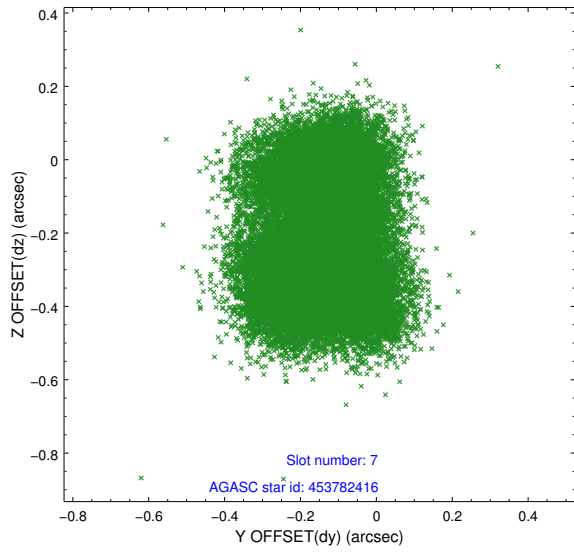
2.4.3 Slot 5



2.4.4 Slot 6

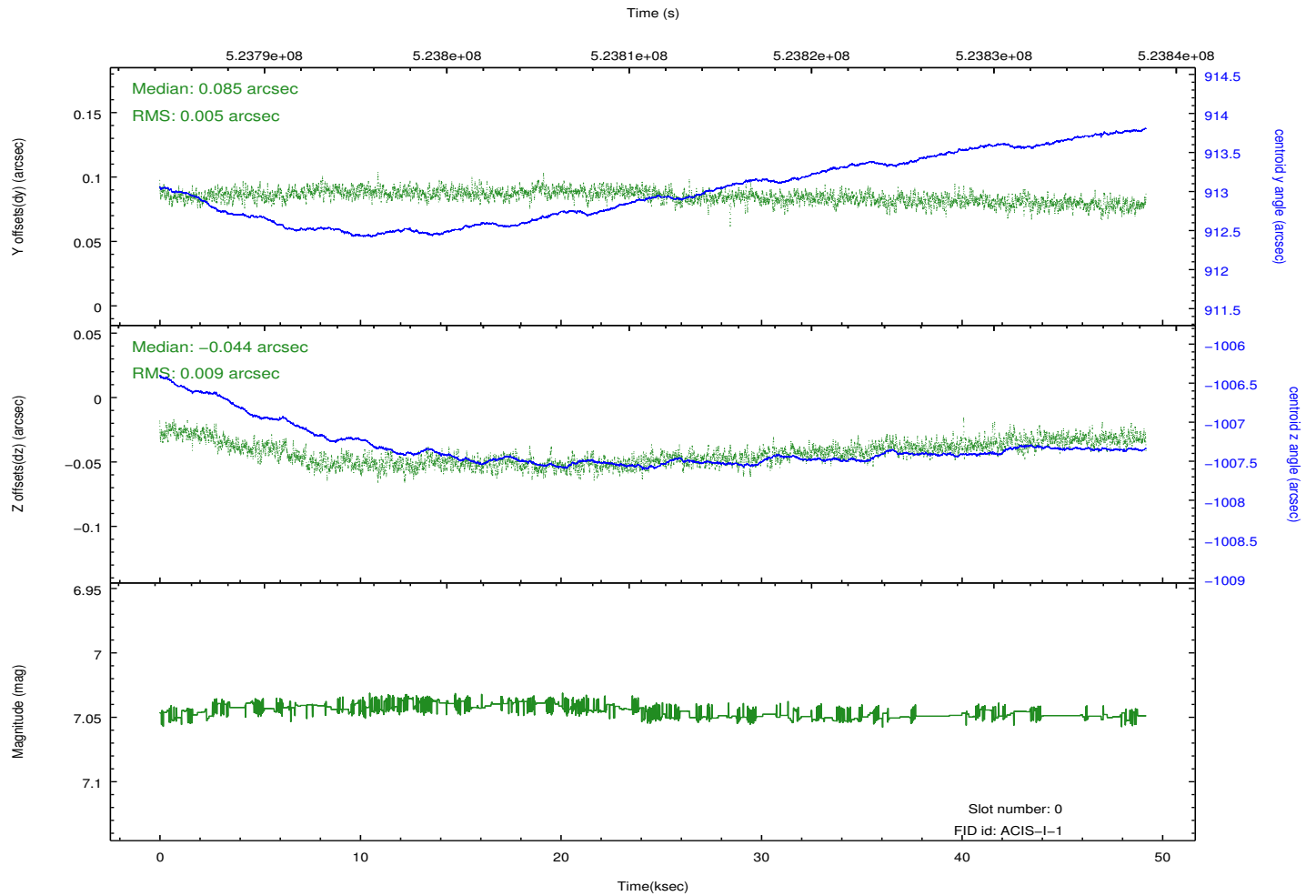
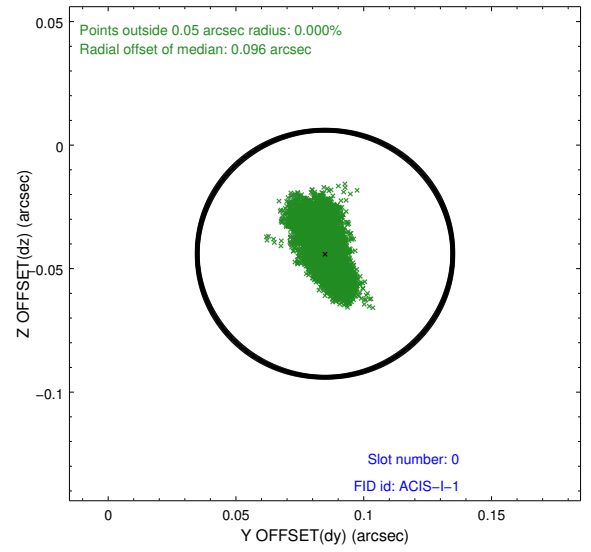
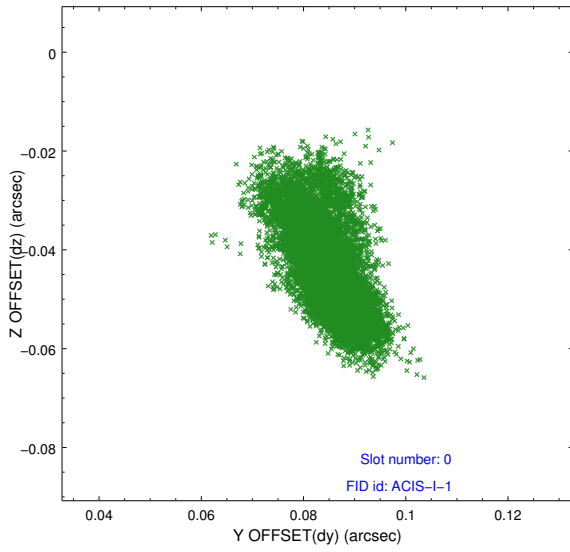


2.4.5 Slot 7

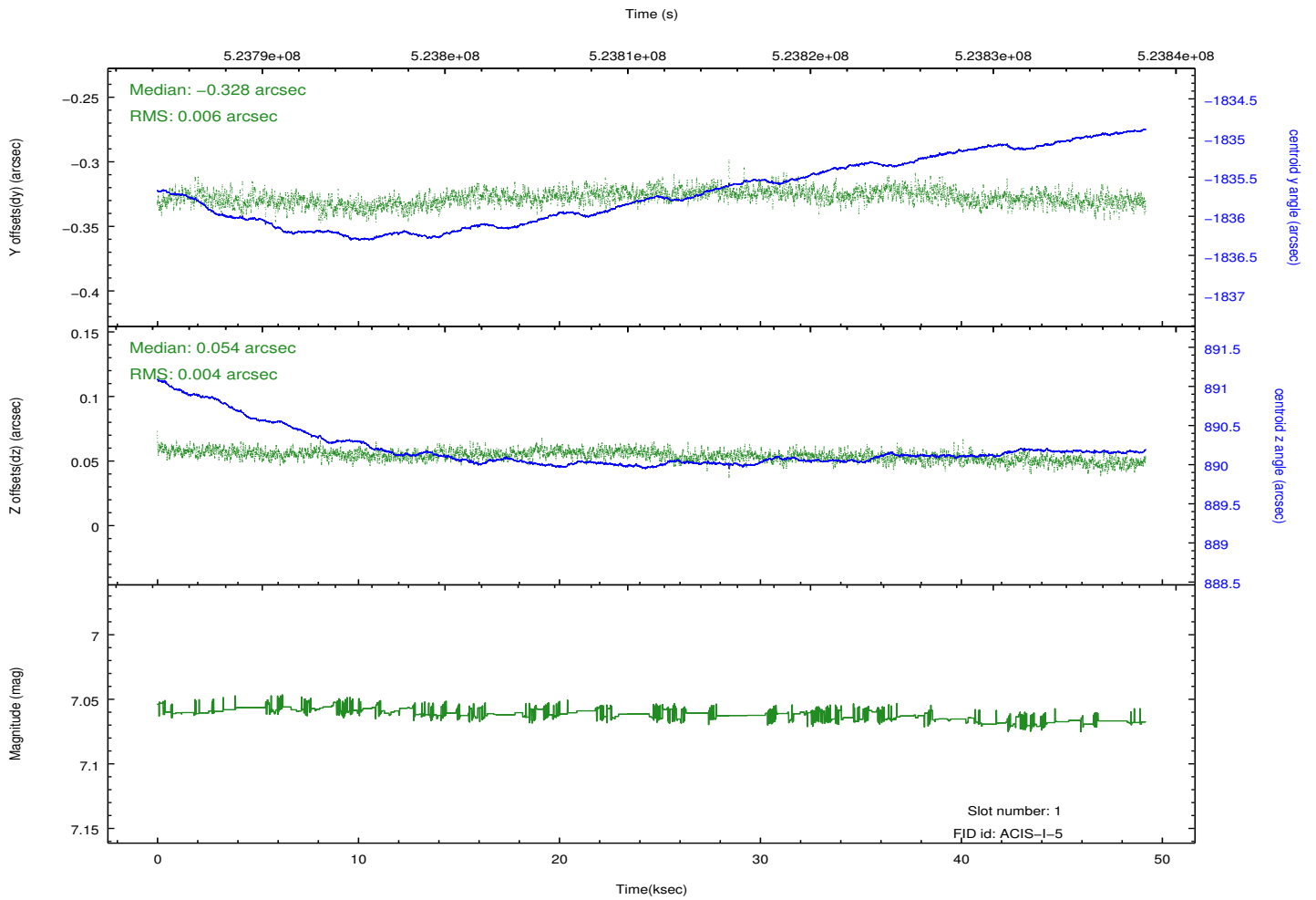
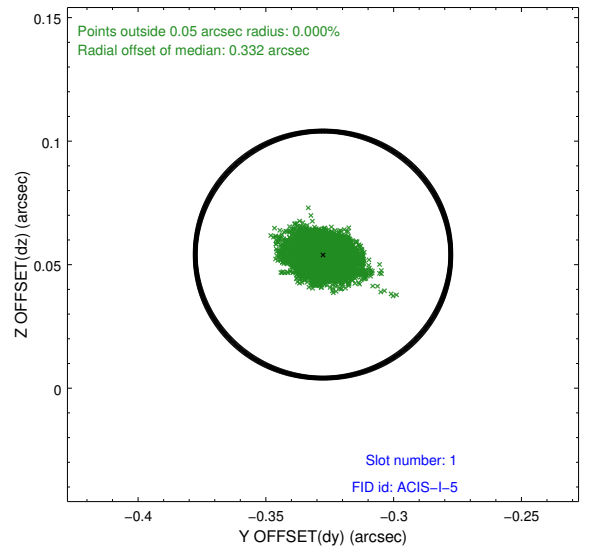
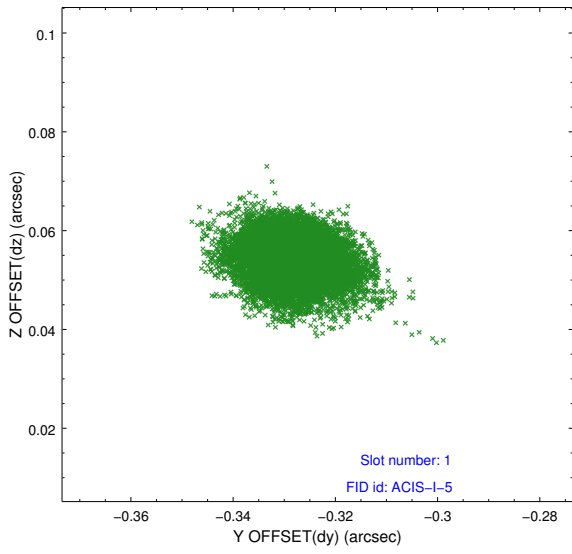


2.5 FID Slots

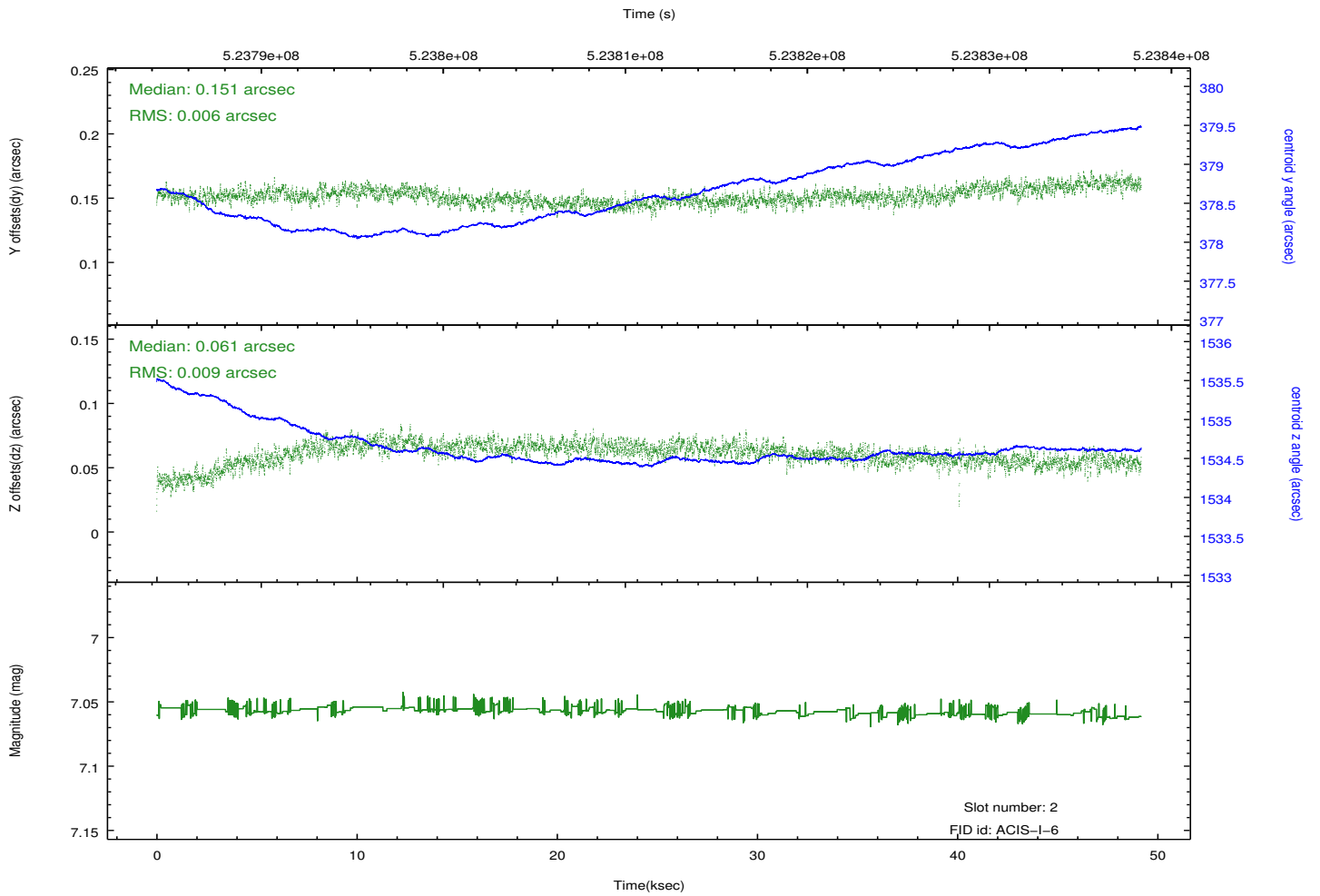
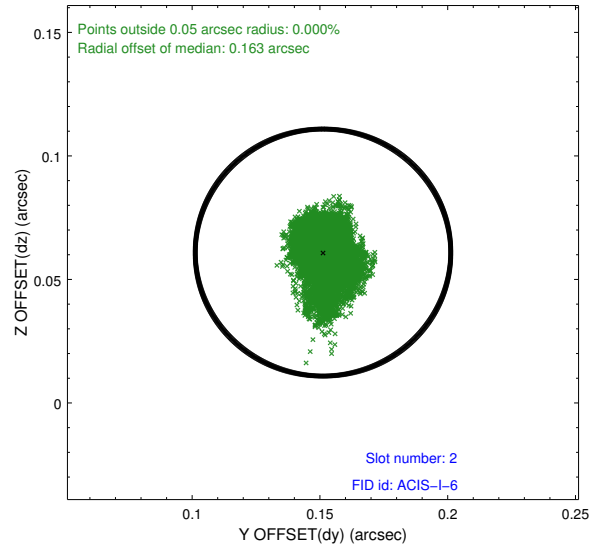
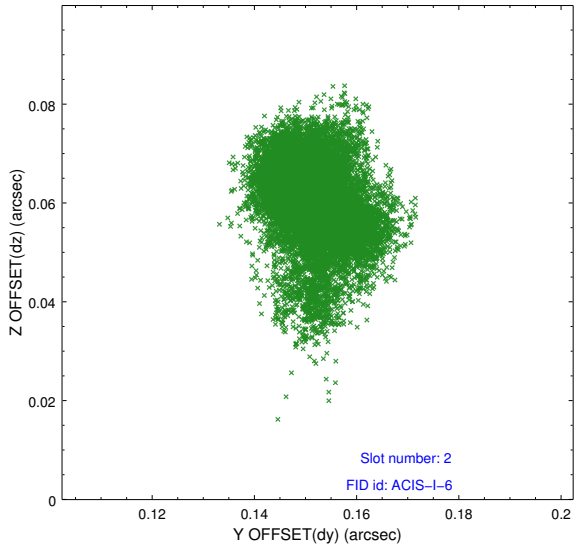
2.5.1 Slot 0



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)	2014.08.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.085400377512

A.2 Comments