

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16122 - L2 Version 1
Chandra X-Ray Center

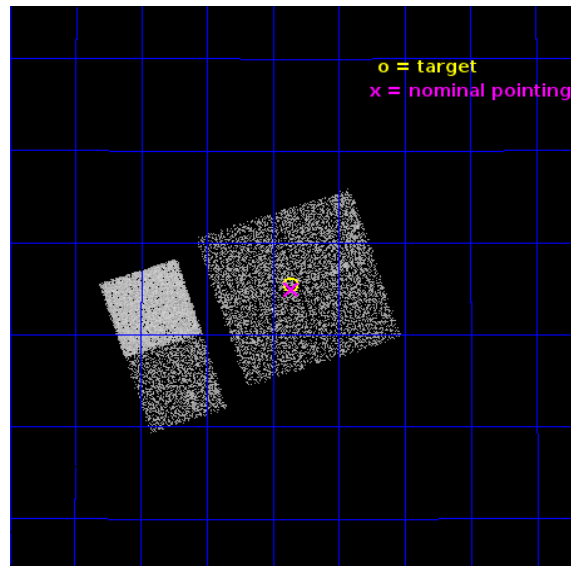
L2 Processing Date : Jul 24 2014

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1 Front

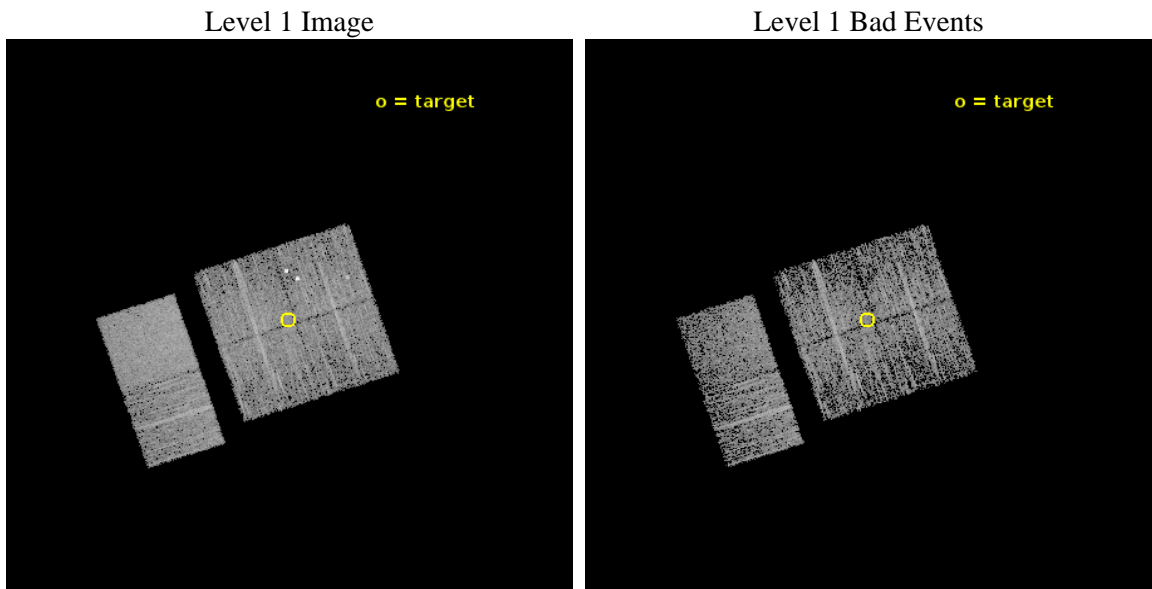
seq_num	801376	Sequence number
obs_id	16122	Observation id
title	The Massive Fossil Cluster RXJ1416.4+2315	Proposal title
observer	Dr. David Buote	Principal investigator
object	RXJ1416.4+2315 Offset 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.09	Observer's specified target RA [deg]
dec_targ	23.090528	Observer's specified target Dec [deg]
ra_nom	214.08992143836	Nominal RA [deg]
dec_nom	23.082393637872	Nominal Dec [deg]
roll_nom	251.61216601817	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4972.7999815345	Sum of GTIs [s]
livetime	4909.8313939076	Livetime [s]
ontime0	4972.7999815345	Sum of GTIs [s]
ontime1	4972.7999815345	Sum of GTIs [s]
ontime2	4972.7999815345	Sum of GTIs [s]
ontime3	4972.7999815345	Sum of GTIs [s]
ontime6	4972.7999815345	Sum of GTIs [s]
ontime7	4972.7999815345	Sum of GTIs [s]
l2events	26999	Number of level 2 events



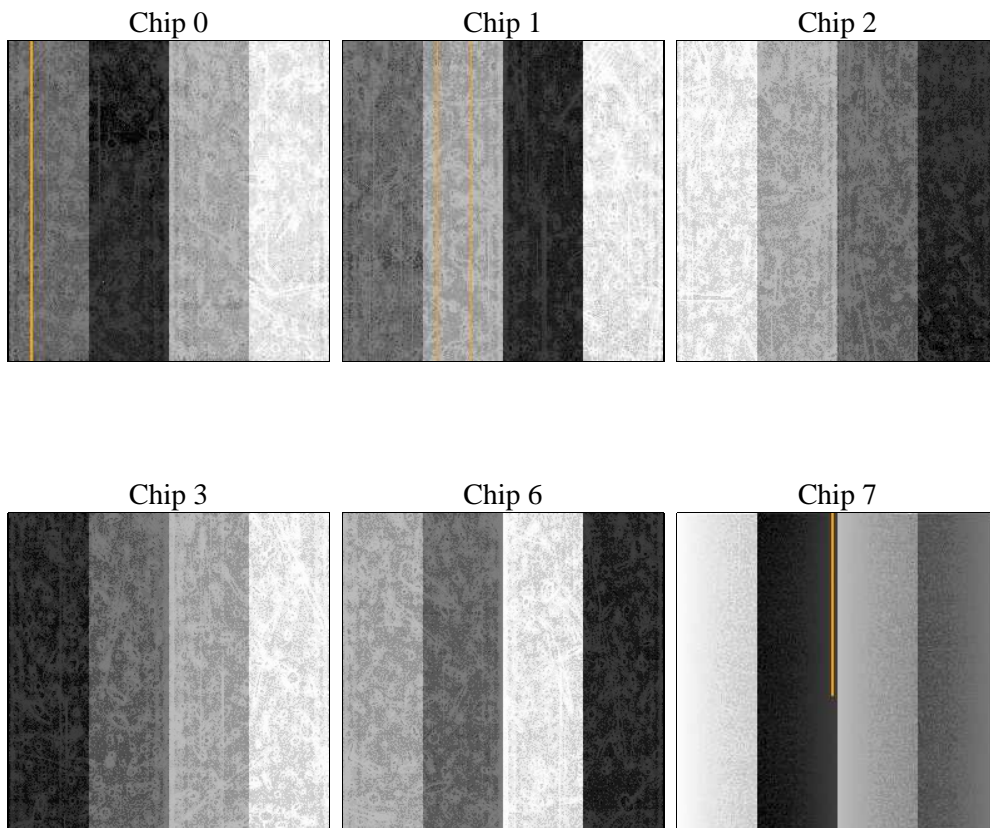
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	4972.7999815345	Sum of GTIs [s]
caldsver	4.6.2	 	ontime0	4972.7999815345	Sum of GTIs [s]
date	2014-07-25T02:57:59	Date and time of file creation	ontime1	4972.7999815345	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4972.7999815345	Sum of GTIs [s]
			ontime3	4972.7999815345	Sum of GTIs [s]
			ontime6	4972.7999815345	Sum of GTIs [s]
			ontime7	4972.7999815345	Sum of GTIs [s]
			l1events	152822	Number of level 1 events

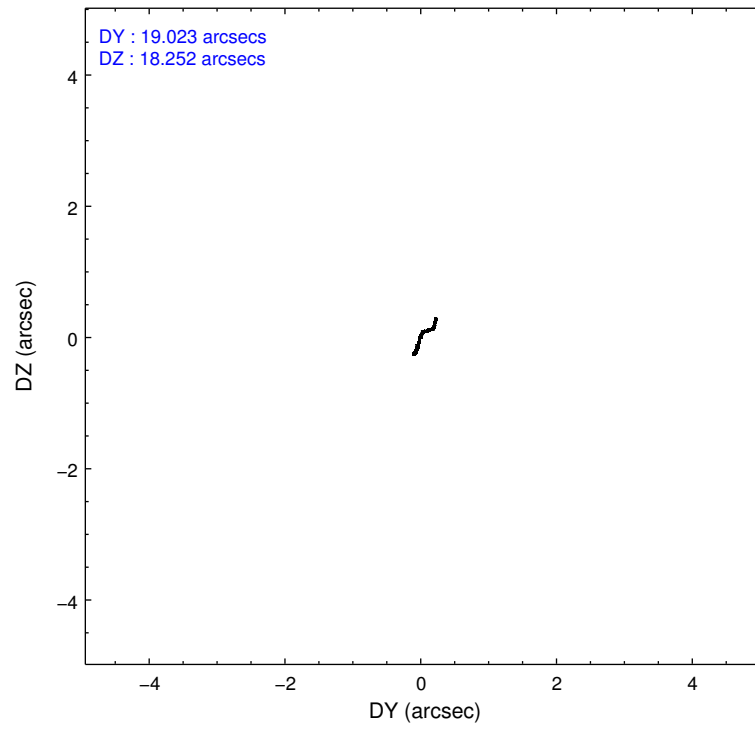
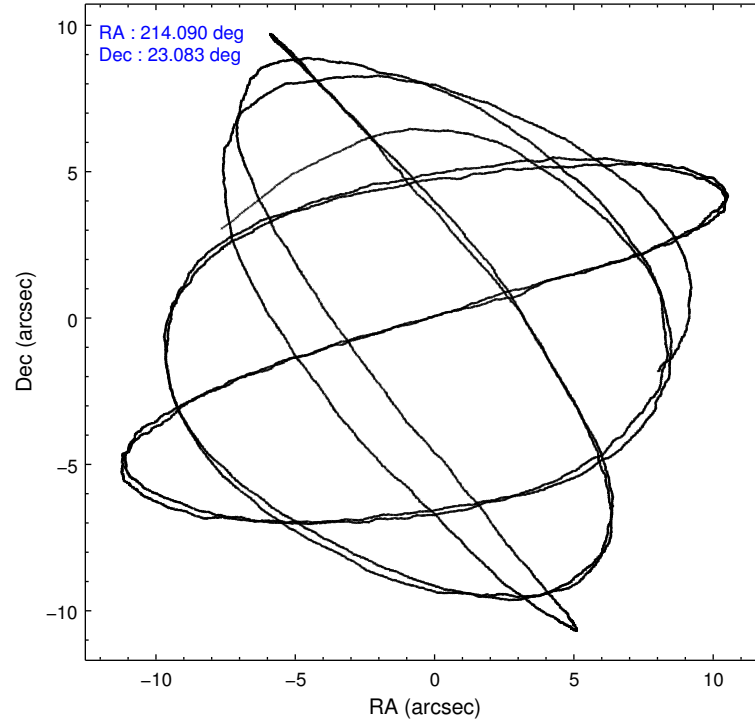
2.1.4 Events

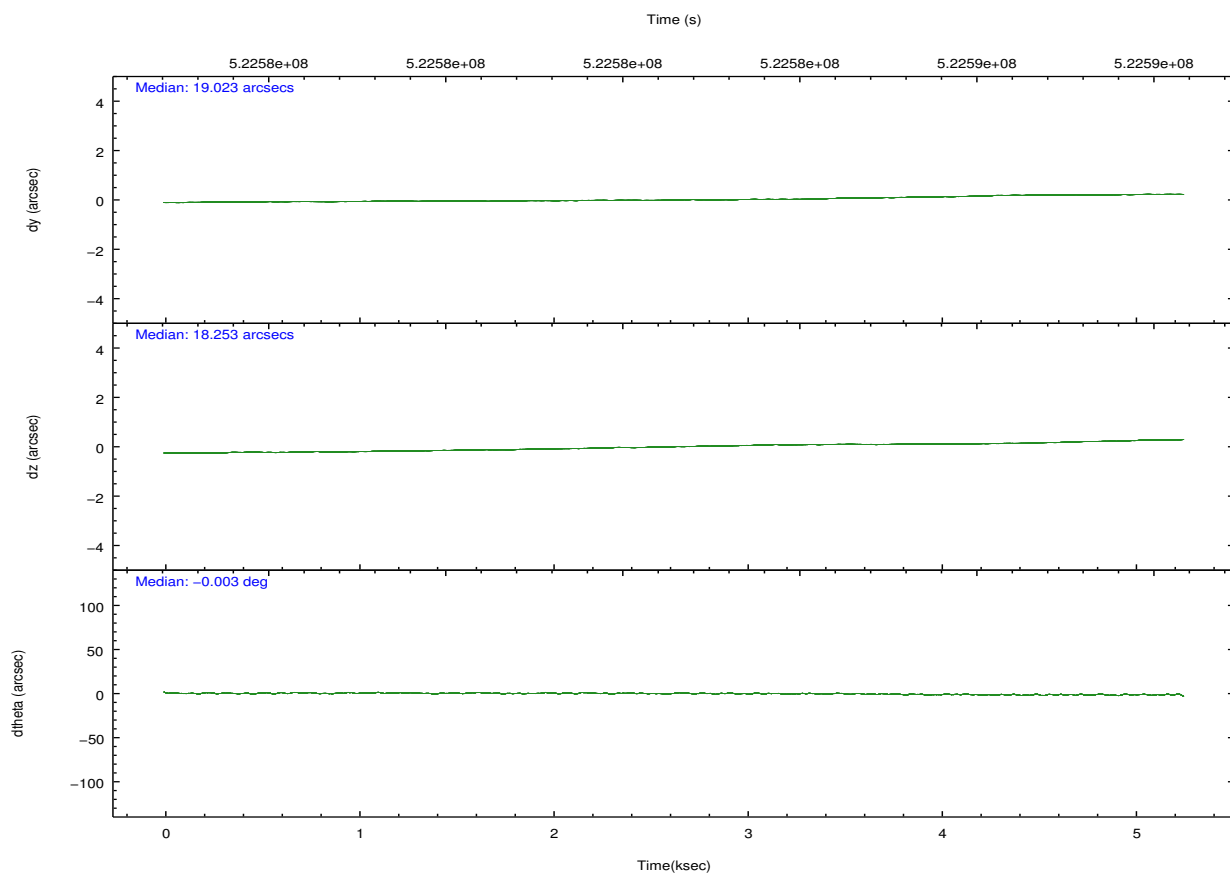
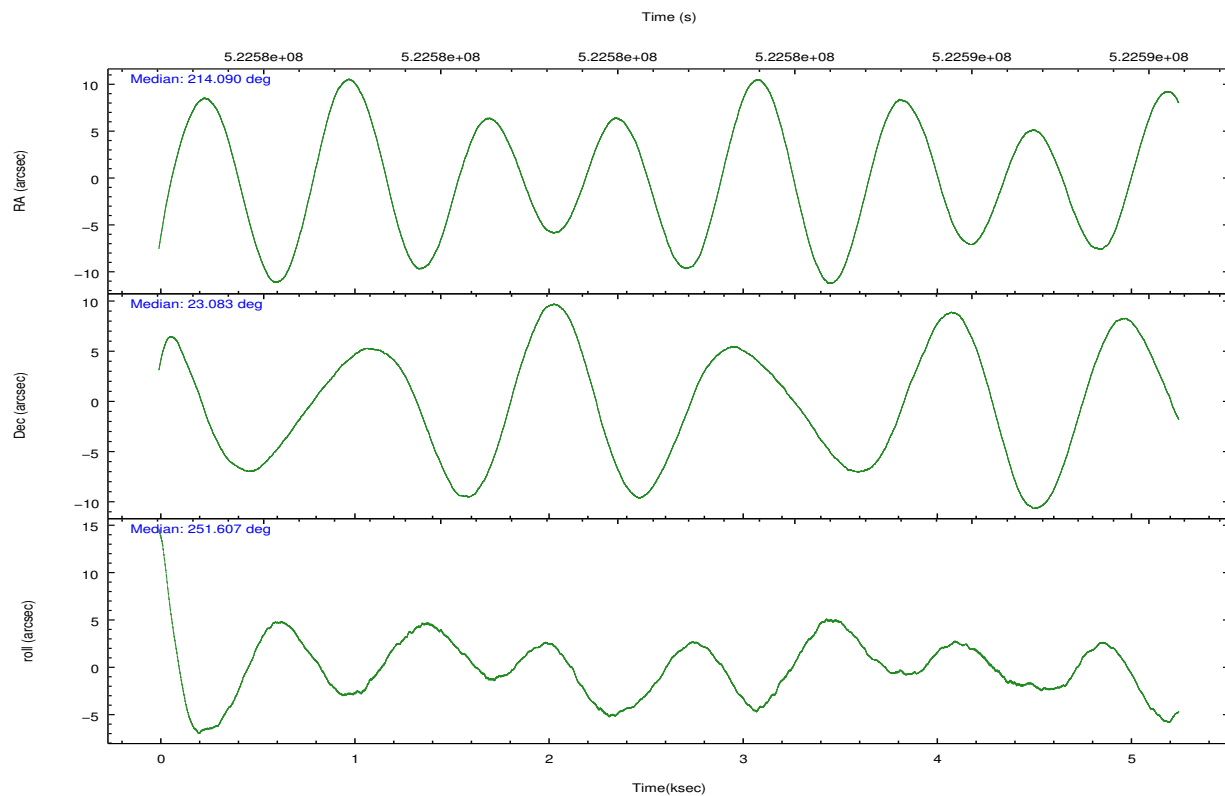
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	21030	26937	23043	23294	25248	33270	grade 0 events	969	1598	1084	900	1040	1306
rejected events	18219	20203	20149	20596	22317	18618		4%	5%	4%	3%	4%	3%
rejected %	86%	75%	87%	88%	88%	55%	grade 1 events	8	9	10	14	12	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	705	3755	717	644	673	3012
								3%	13%	3%	2%	2%	9%
							grade 3 events	283	327	310	255	274	1193
								1%	1%	1%	1%	1%	3%
							grade 4 events	266	324	272	315	270	1234
								1%	1%	1%	1%	1%	3%
							grade 5 events	1127	1224	1172	1263	1343	3401
								5%	4%	5%	5%	5%	10%
							grade 6 events	591	741	517	587	675	7916
								2%	2%	2%	2%	2%	23%
							grade 7 events	17081	18959	18961	19316	20961	15163
								81%	70%	82%	82%	83%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	214.083701	214.0899214383555	CCD I2 on	Y	Y
[deg] Pointing Dec	23.109357	23.08239363787153	CCD I3 on	Y	Y
[deg] Pointing Roll	251.405903	251.6121660181723	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	522581908.184000	522580911.75562	CCD S5 on	N	N
Observation start date	2014-07-24T09:37:21	2014-07-24T09:21:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	522586908.184000	522588086.75601	On-chip summing requested	N	N
Observation end date	2014-07-24T11:00:41	2014-07-24T11:21:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



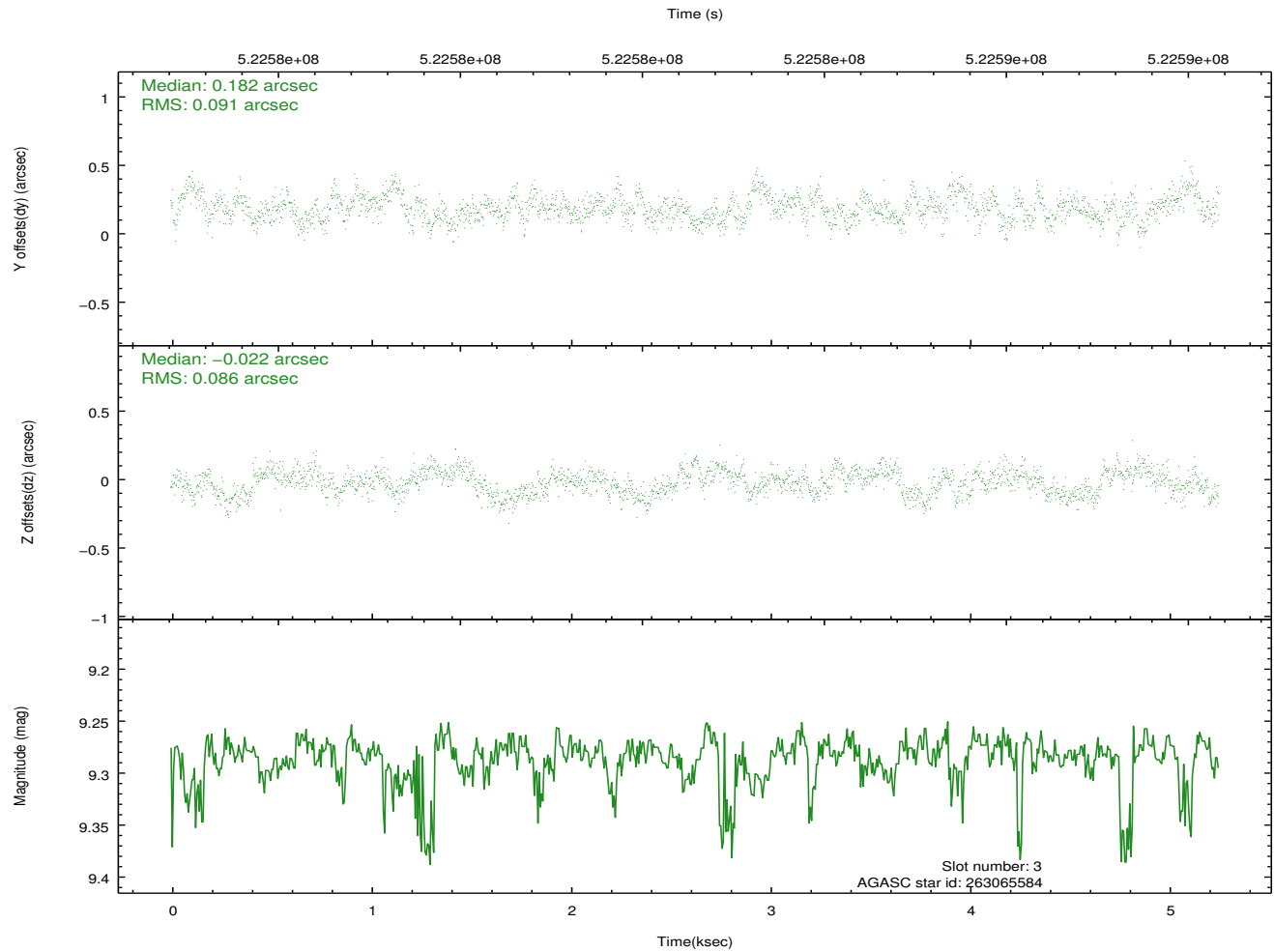
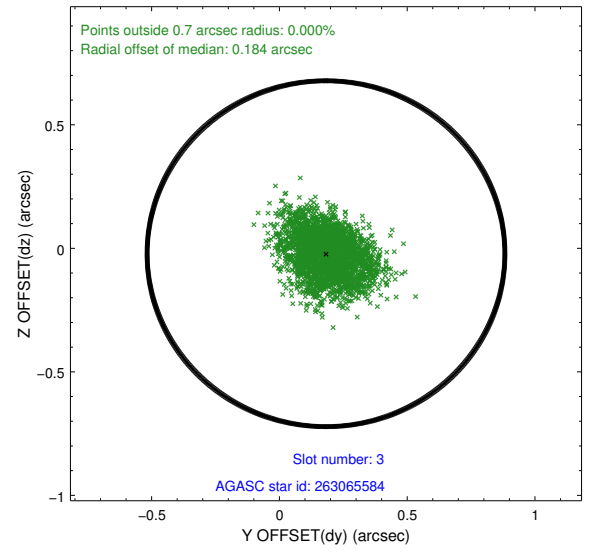
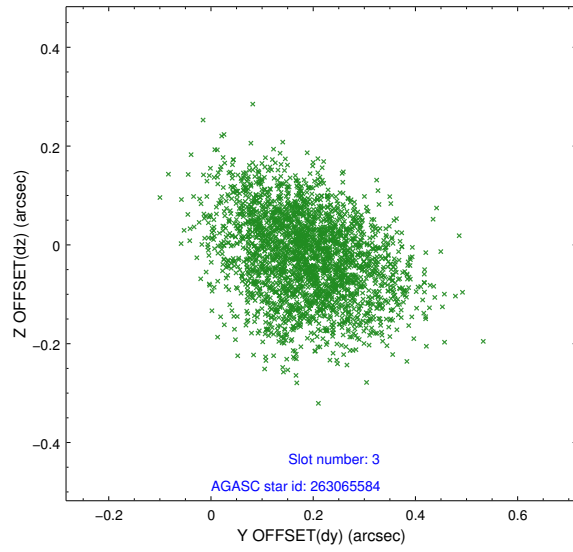


Slot Statistics

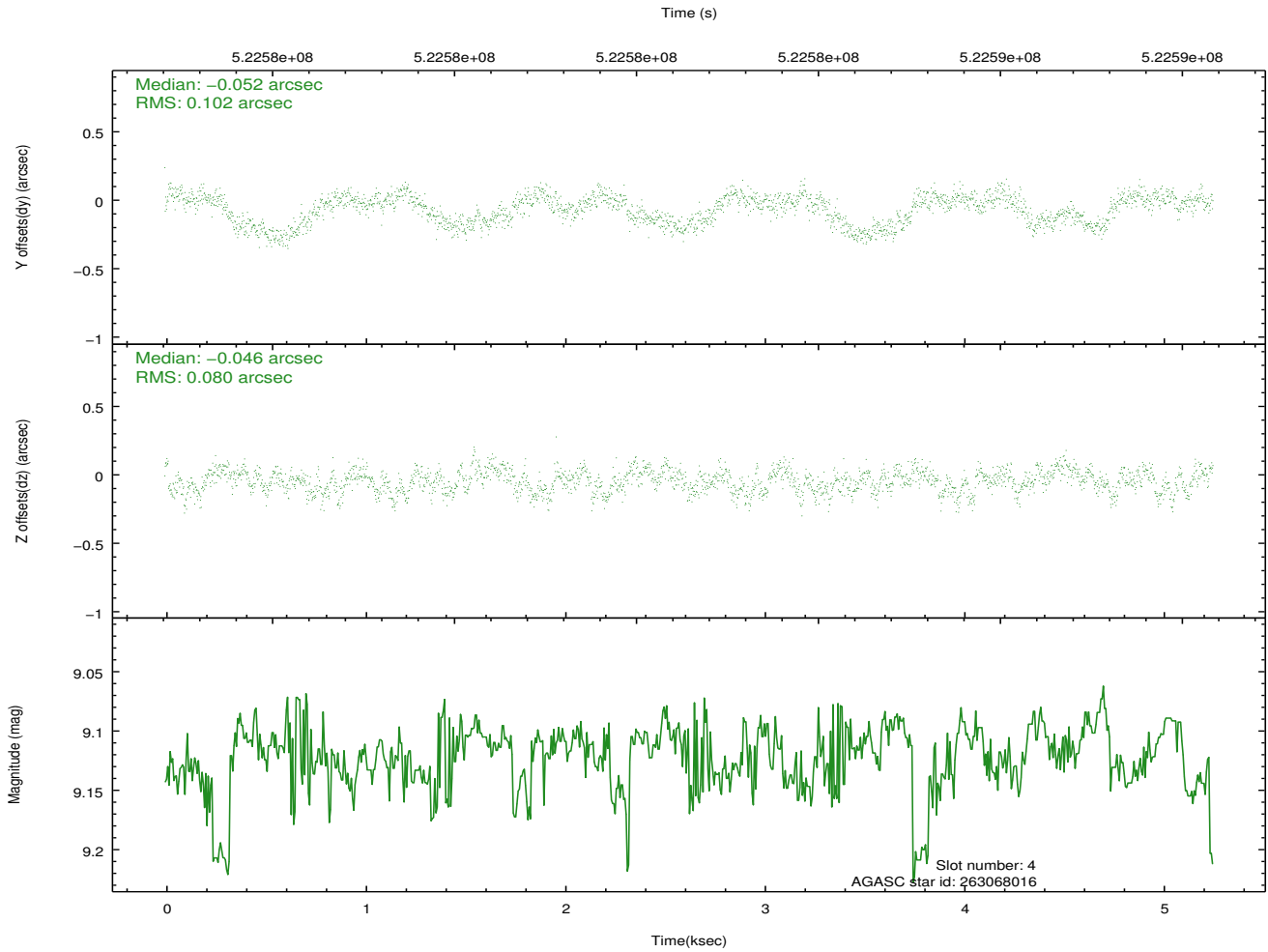
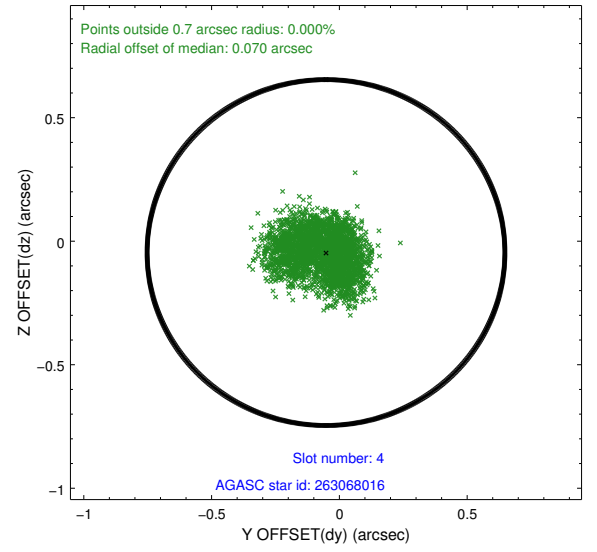
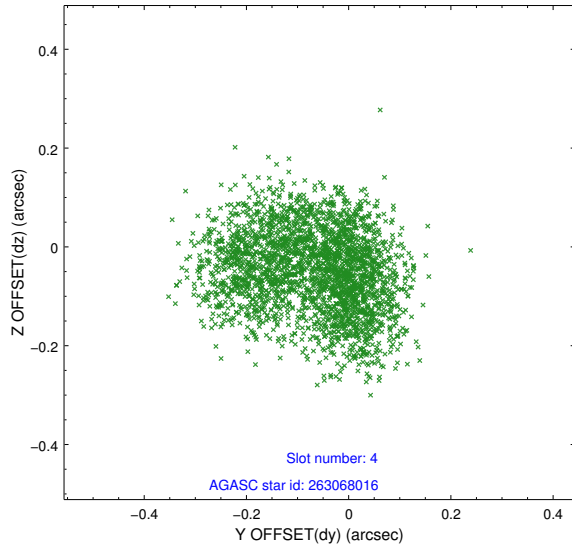
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.12	1282	0.049	0.031	0.008	0.015	0.000000	0.000000	920.36	-841.87
1	FID	ACIS-I-5	7.11	1282	-0.274	0.046	0.007	0.011	0.000000	0.000000	-1827.48	1054.99
2	FID	ACIS-I-6	7.12	1282	0.135	-0.007	0.007	0.011	0.000000	0.000000	384.68	1700.79
3	GUIDE	263065584	9.28	2563	0.182	-0.022	0.133	0.212	213.433560	22.662944	2207.95	-1536.41
4	GUIDE	263068016	9.12	2559	-0.052	-0.046	0.142	0.216	214.662709	23.066822	-468.00	1865.14
5	GUIDE	263068464	8.88	2557	0.036	-0.099	0.100	0.160	214.145675	22.675072	1416.99	694.79
6	GUIDE	263068776	8.85	2564	-0.147	0.061	0.109	0.186	214.499885	23.608632	-2142.12	727.70
7	GUIDE	263070912	7.06	2563	-0.004	0.100	0.095	0.147	213.756514	23.686063	-1624.81	-1684.68

2.4 Star Slots

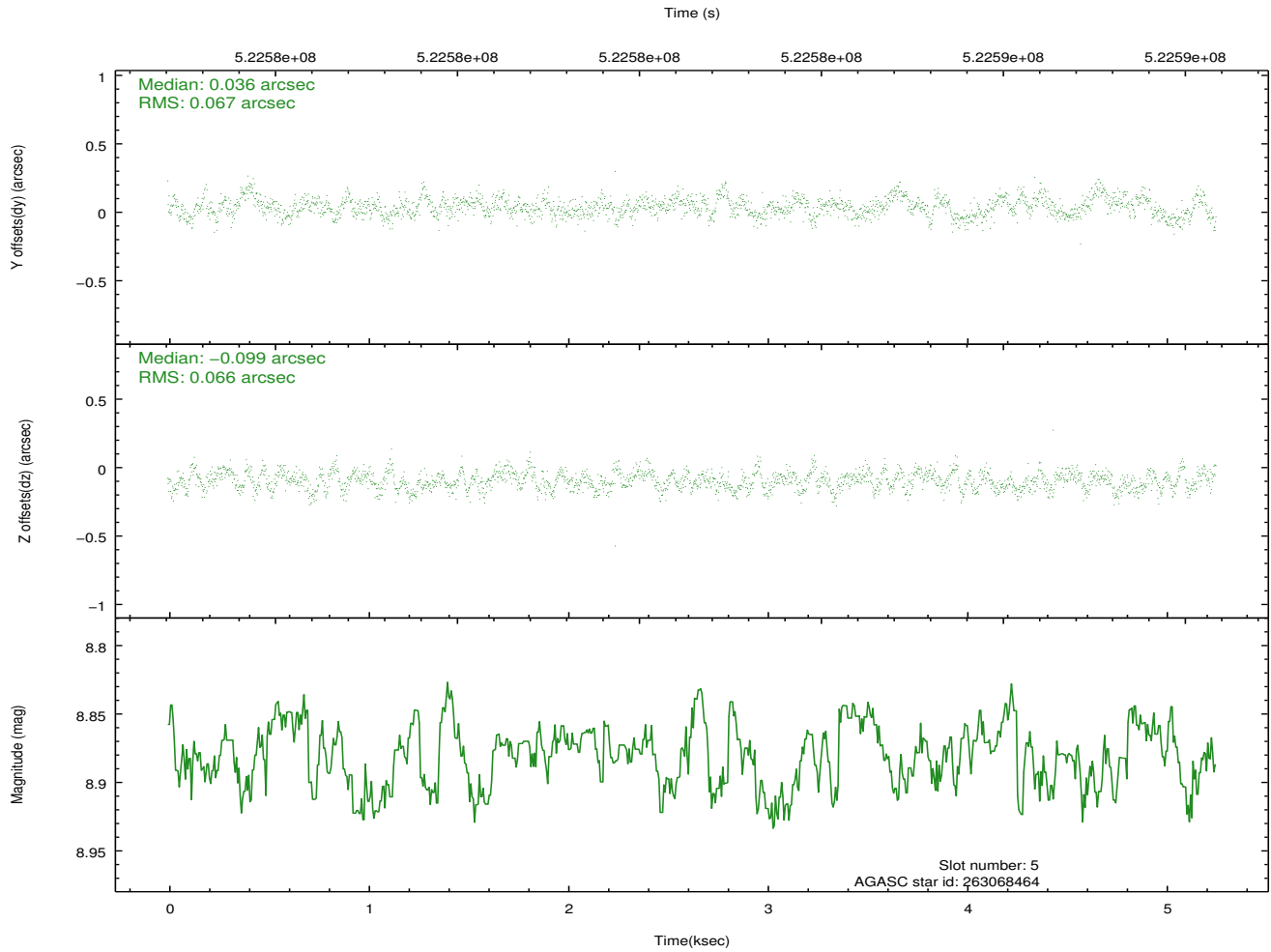
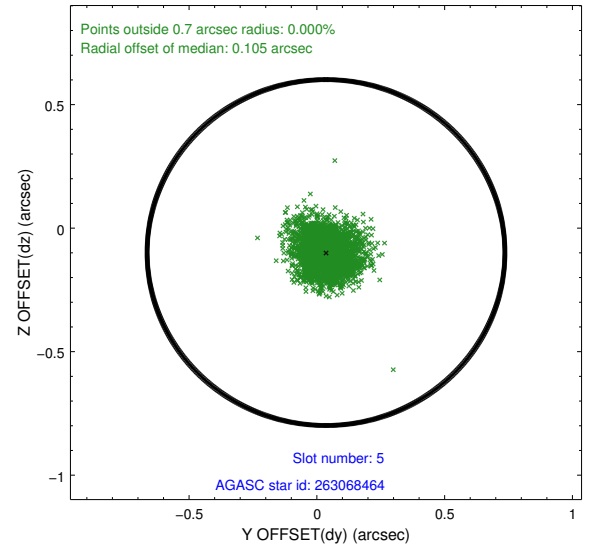
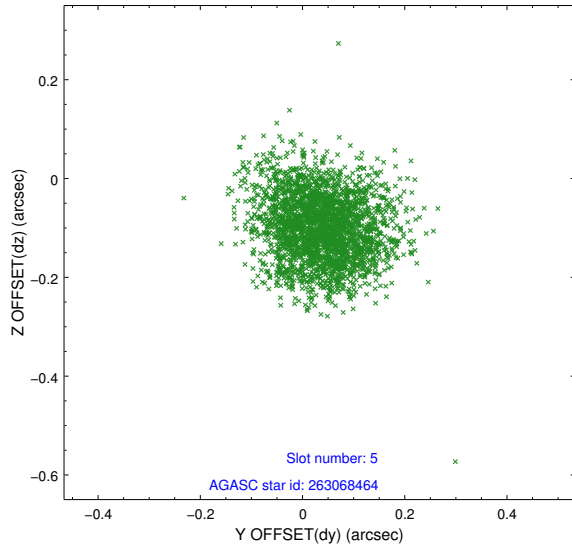
2.4.1 Slot 3



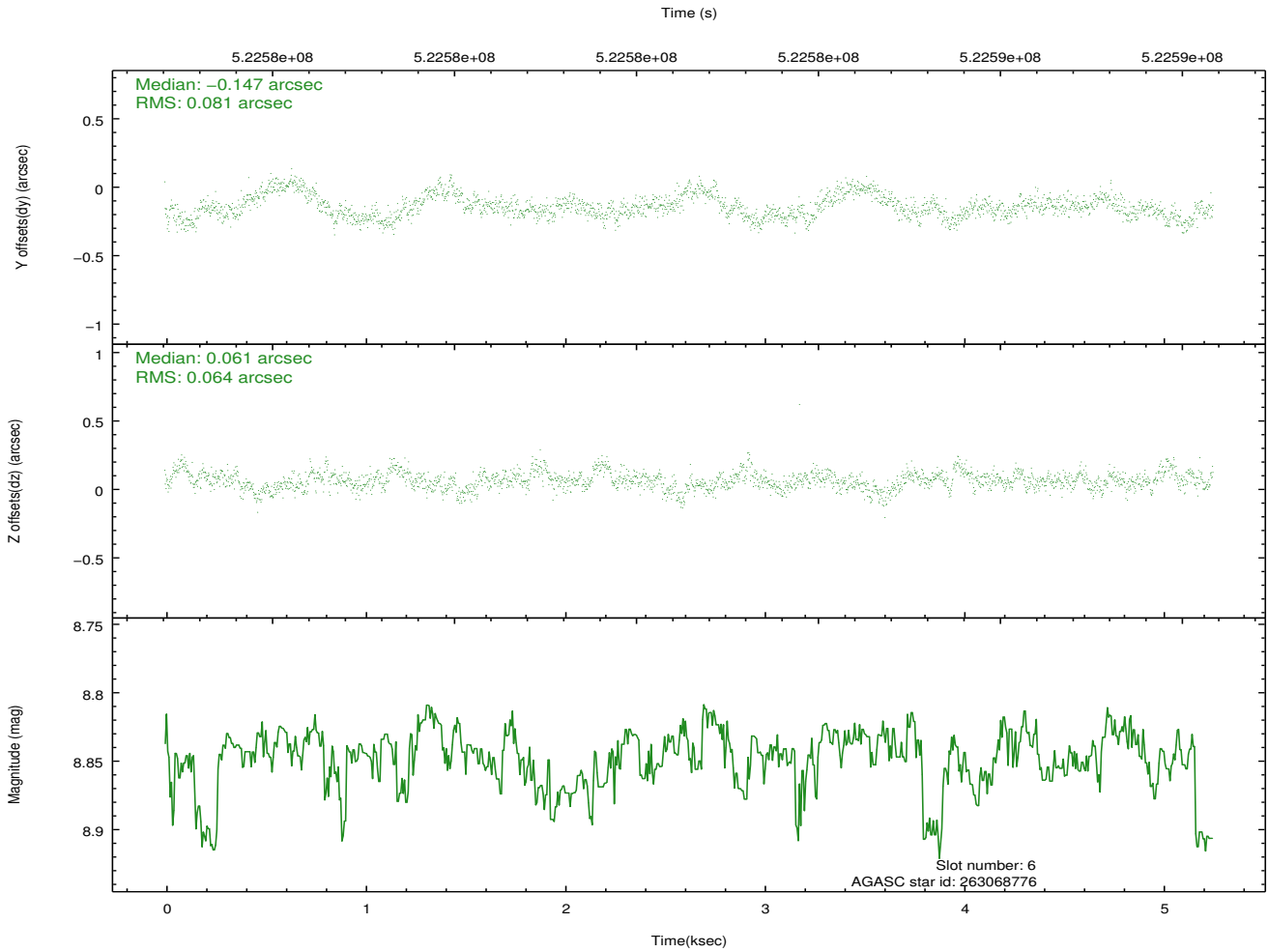
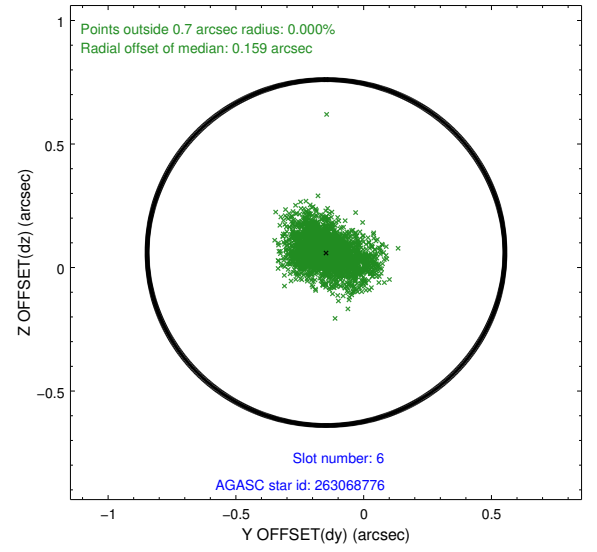
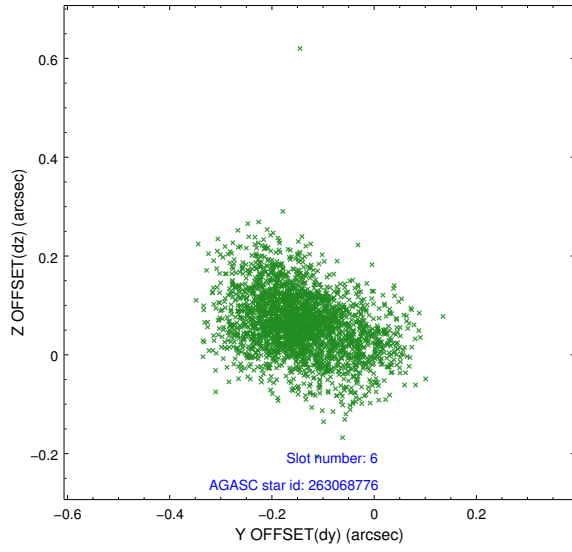
2.4.2 Slot 4



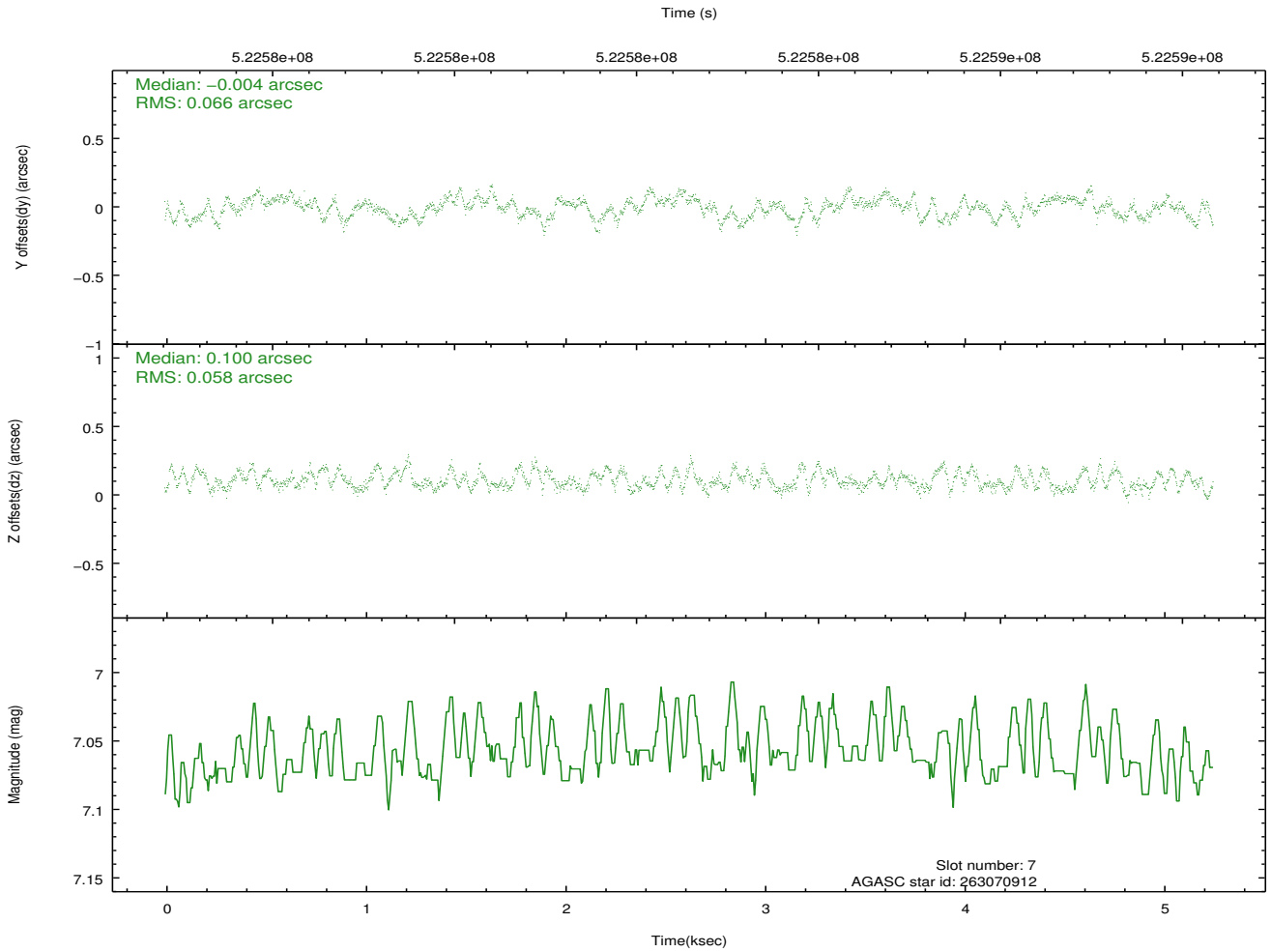
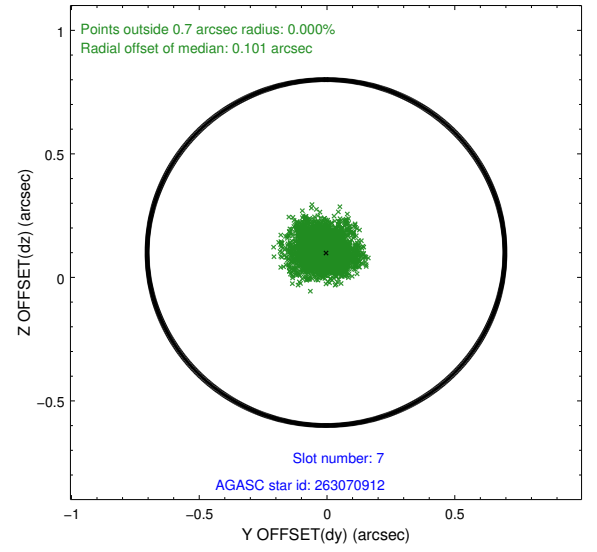
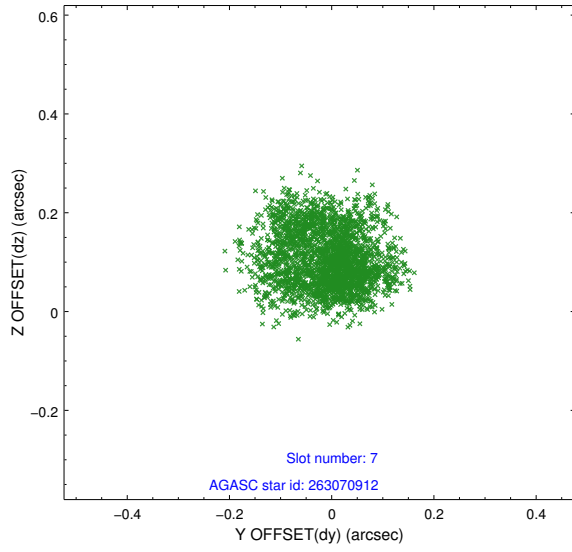
2.4.3 Slot 5



2.4.4 Slot 6

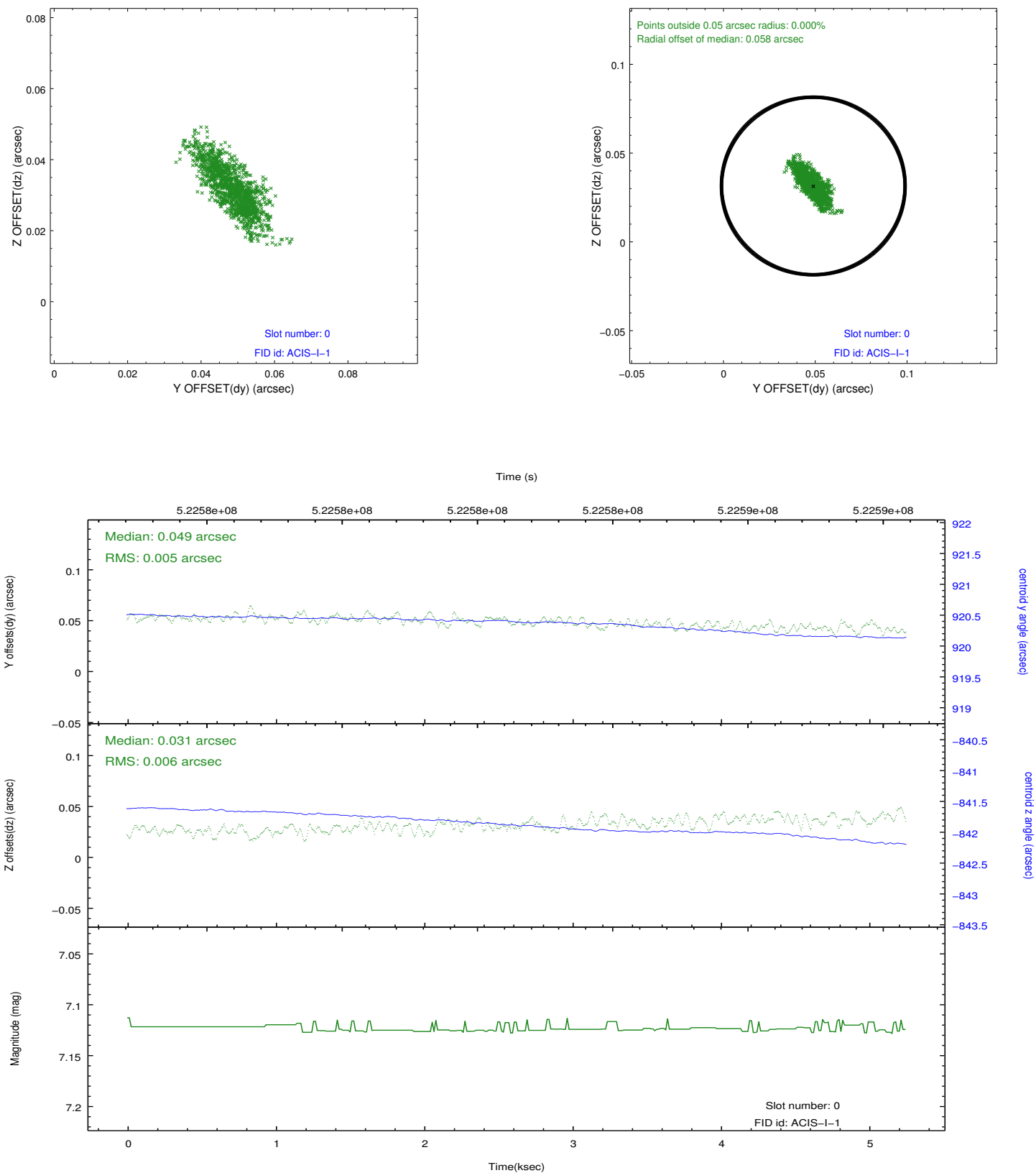


2.4.5 Slot 7

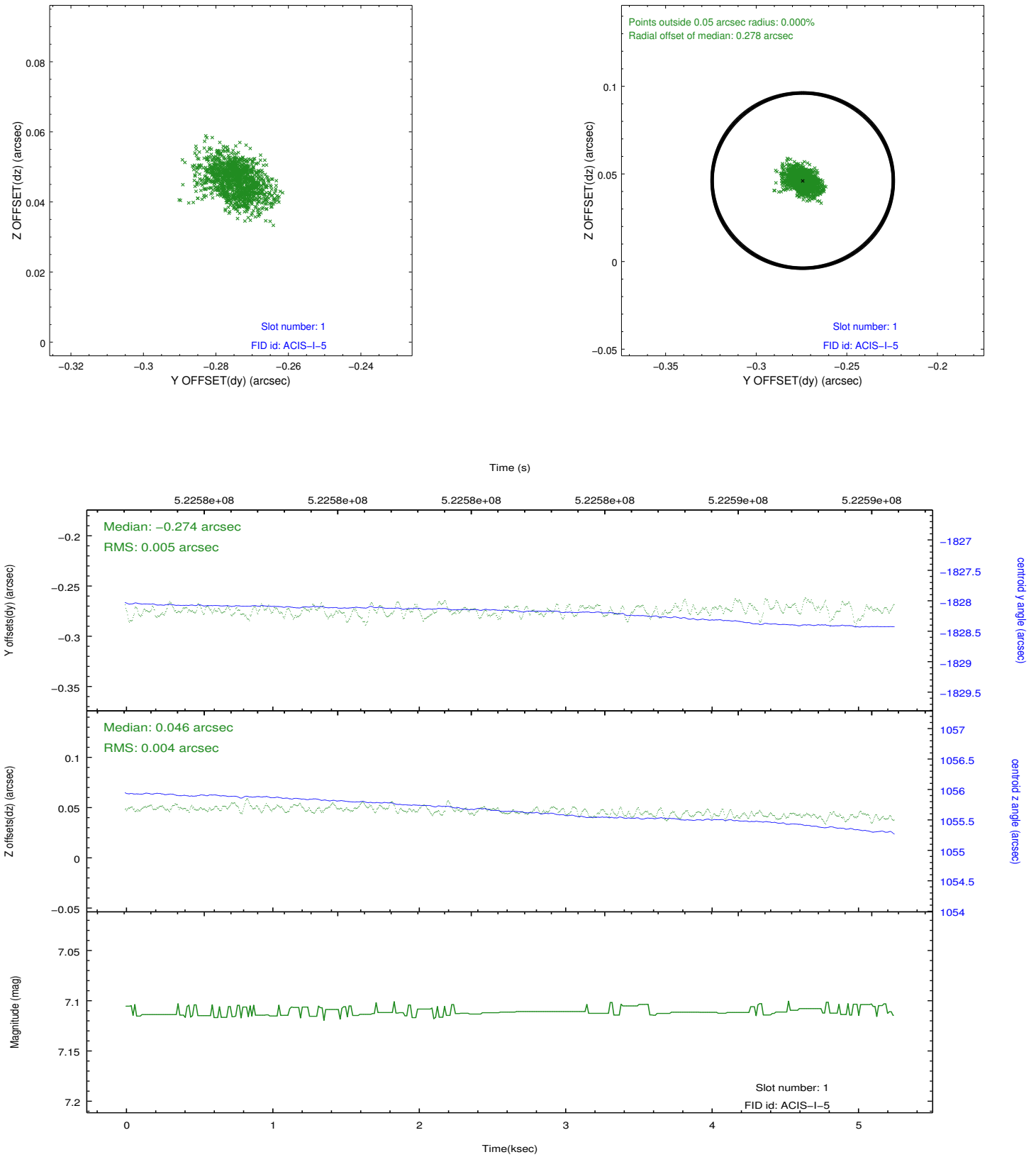


2.5 FID Slots

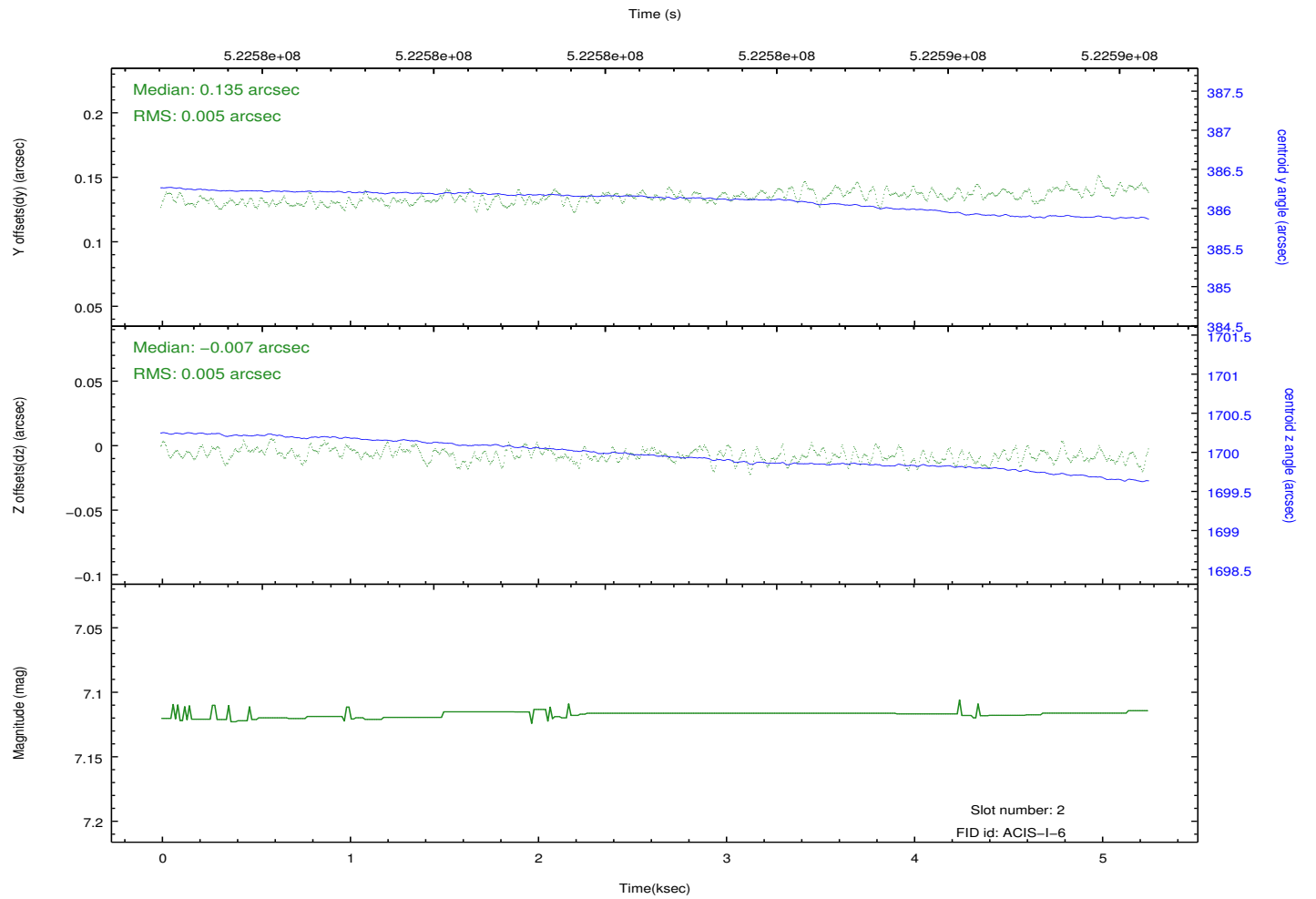
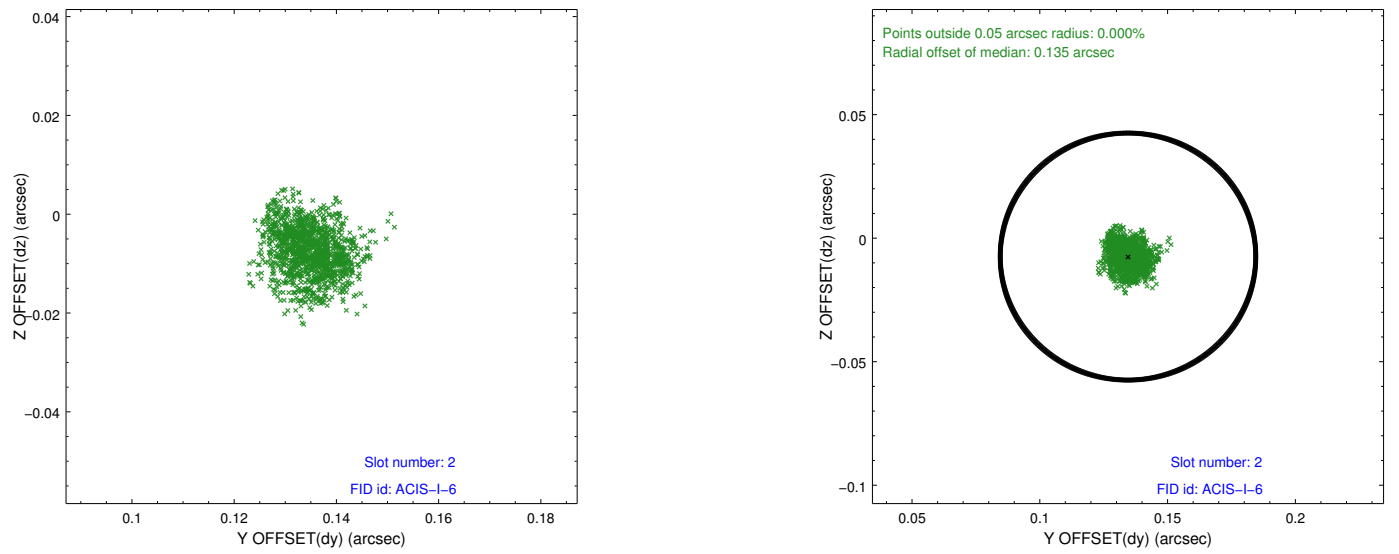
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.07.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9727999815345

A.2 Comments