

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18269 - L2 Version 1
Chandra X-Ray Center

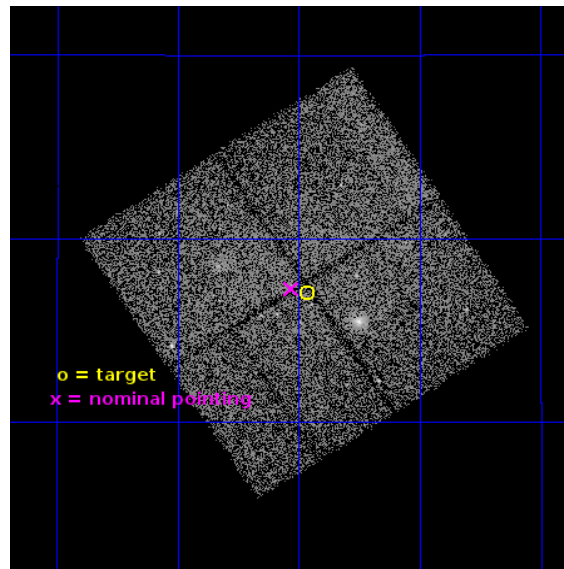
L2 Processing Date : Nov 19 2015

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1 Front

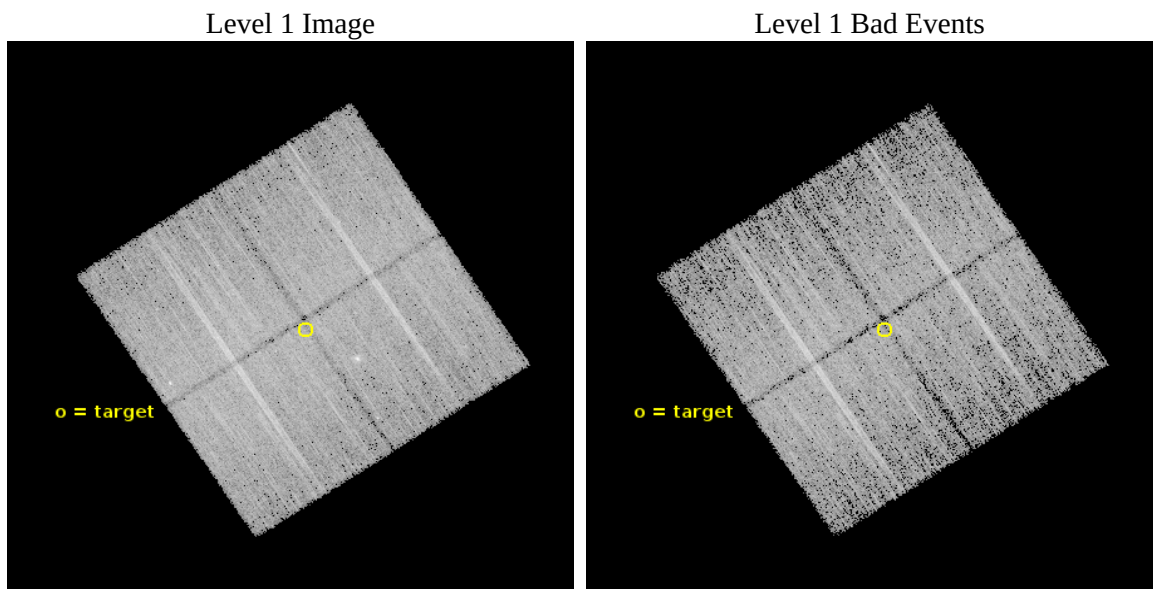
seq_num	801593	Sequence number
obs_id	18269	Observation id
title	The Impact of a High_velocity Merger on the Intra-Group Medium of LGG 72	Proposal title
observer	Dr Ewan O'Sullivan	Principal investigator
object	LGG 72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.866667	Observer's specified target RA [deg]
dec_targ	32.450556	Observer's specified target Dec [deg]
ra_nom	40.882515780286	Nominal RA [deg]
dec_nom	32.454628194292	Nominal Dec [deg]
roll_nom	236.70017964188	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24480.618128061	Sum of GTIs [s]
livetime	24160.760829849	Livetime [s]
ontime0	24480.618128061	Sum of GTIs [s]
ontime1	24477.477088213	Sum of GTIs [s]
ontime2	24486.900188446	Sum of GTIs [s]
ontime3	24483.759138346	Sum of GTIs [s]
l2events	57376	Number of level 2 events



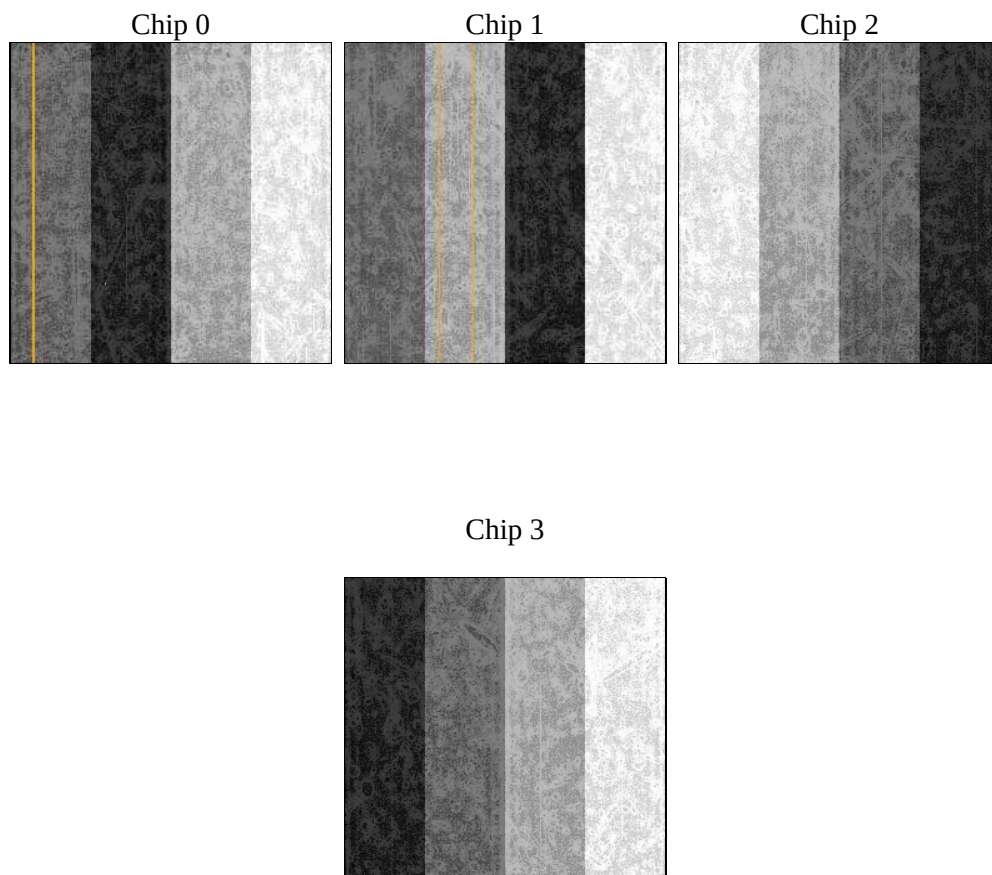
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24400.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	24480.618128061	Sum of GTIs [s]
caldbver	4.6.10a	 	ontime0	24480.618128061	Sum of GTIs [s]
date	2015-11-19T15:52:02	Date and time of file creation	ontime1	24477.477088213	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24486.900188446	Sum of GTIs [s]
			ontime3	24483.759138346	Sum of GTIs [s]
			l1events	513080	Number of level 1 events

2.1.4 Events

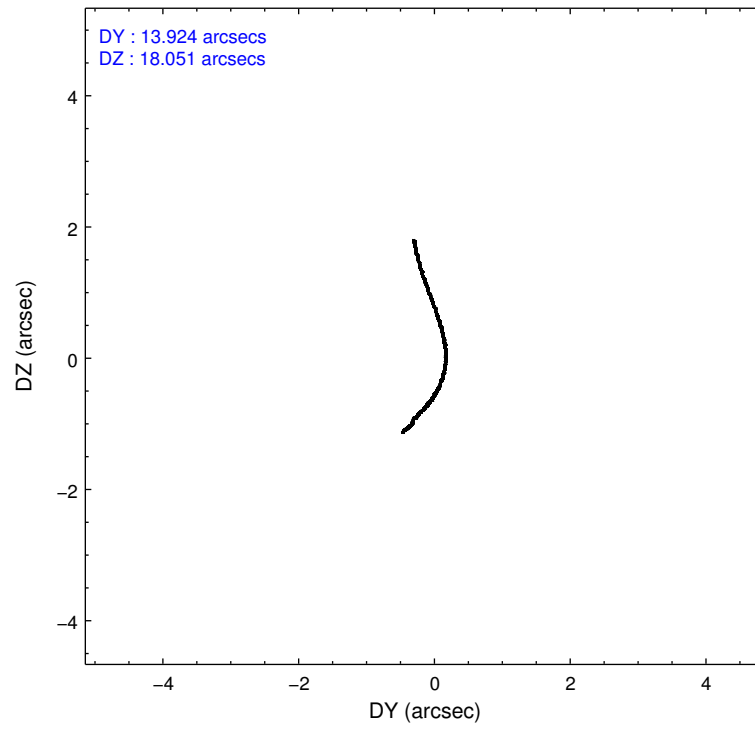
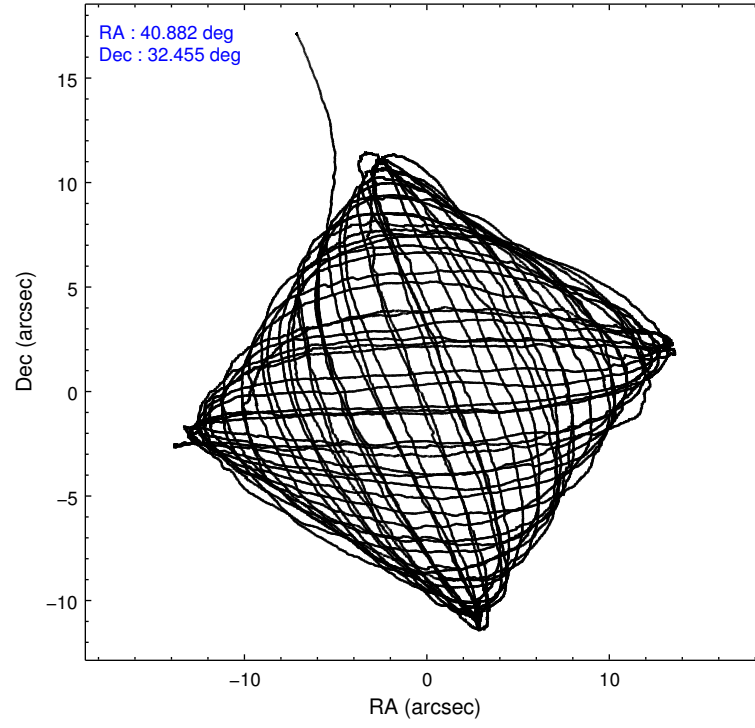
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	123370	123667	131849	134194
rejected events	105336	106022	116163	117886
rejected %	85%	85%	88%	87%

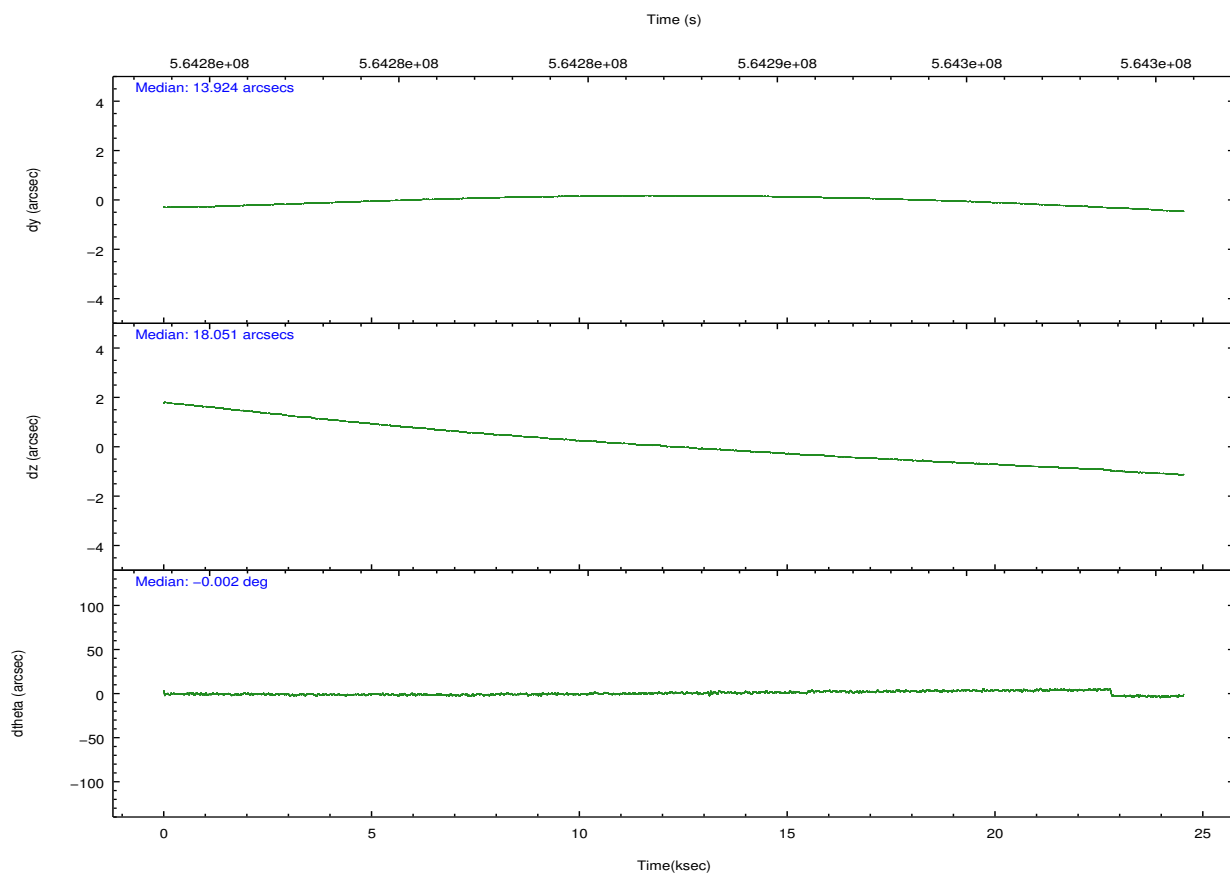
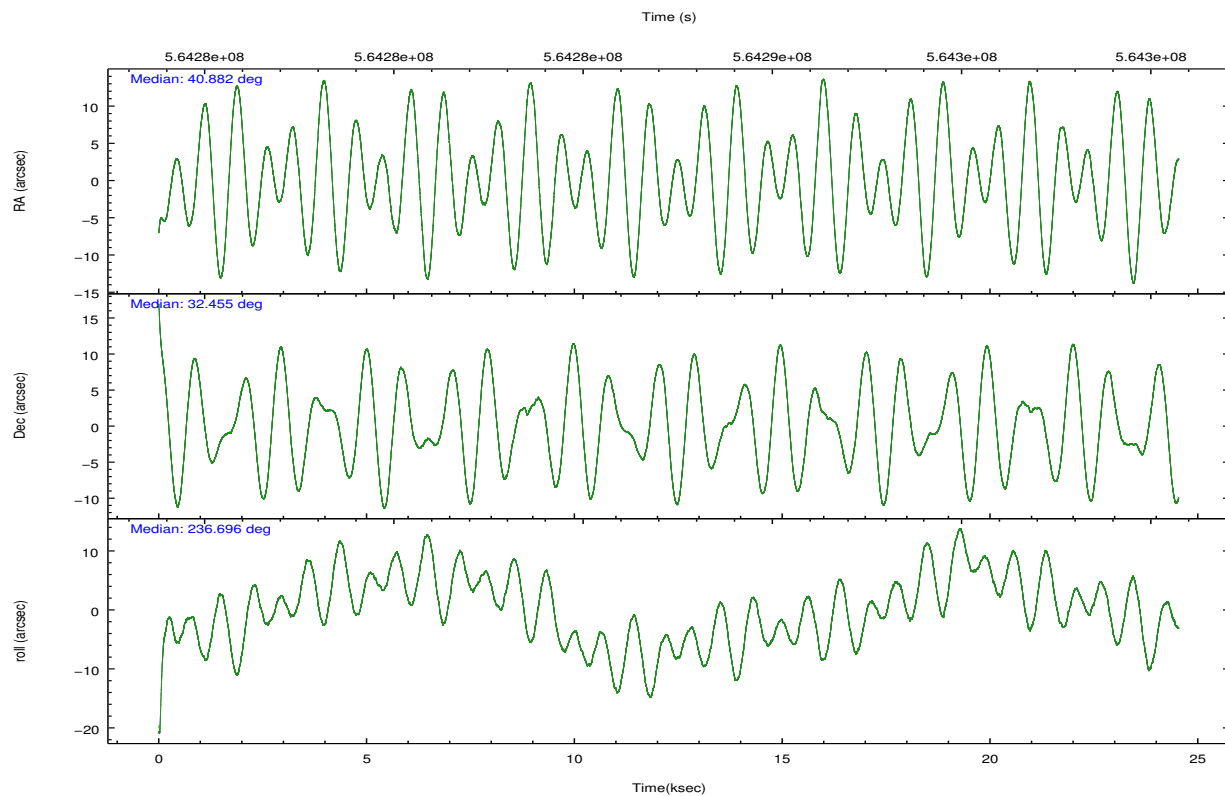
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7652	6724	6102	6638
	6%	5%	4%	4%
grade 1 events	67	88	74	69
	0%	0%	0%	0%
grade 2 events	4030	4029	3780	3402
	3%	3%	2%	2%
grade 3 events	1659	1625	1525	1582
	1%	1%	1%	1%
grade 4 events	1497	1638	1488	1585
	1%	1%	1%	1%
grade 5 events	5997	6352	5369	6767
	4%	5%	4%	5%
grade 6 events	3199	3635	2797	3104
	2%	2%	2%	2%
grade 7 events	99269	99576	110714	111047
	80%	80%	83%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	40.884292	40.88251578028644	CCD I2 on	Y	Y
[deg] Pointing Dec	32.482205	32.45462819429211	CCD I3 on	Y	Y
[deg] Pointing Roll	236.490548	236.7001796418754	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	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	564275149.184000	564273979.904	CCD S5 on	N	N
Observation start date	2015-11-18T23:04:41	2015-11-18T22:46:19	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	564299549.184000	564300937.91803	On-chip summing requested	N	N
Observation end date	2015-11-19T05:51:21	2015-11-19T06:15:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



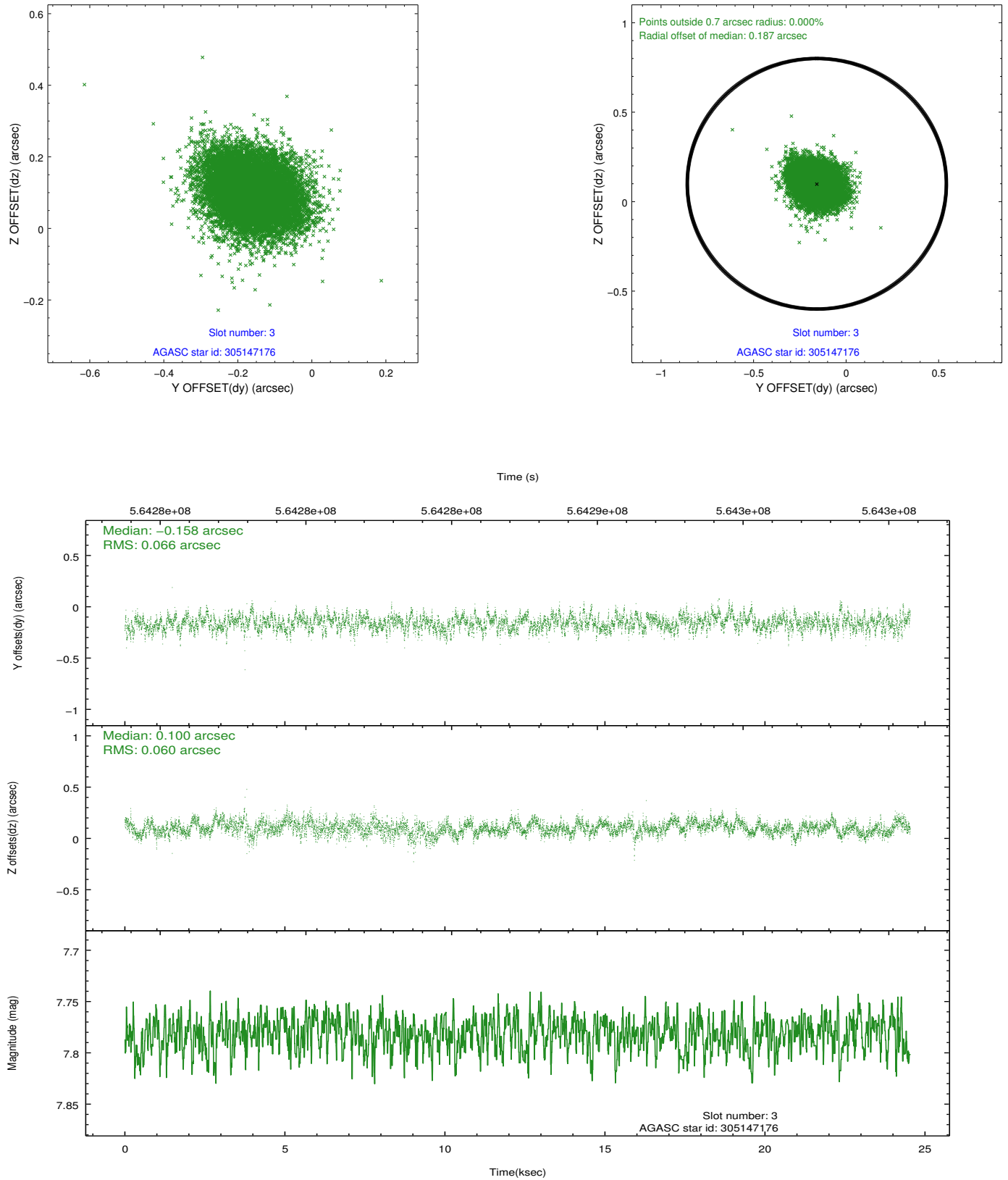


Slot Statistics

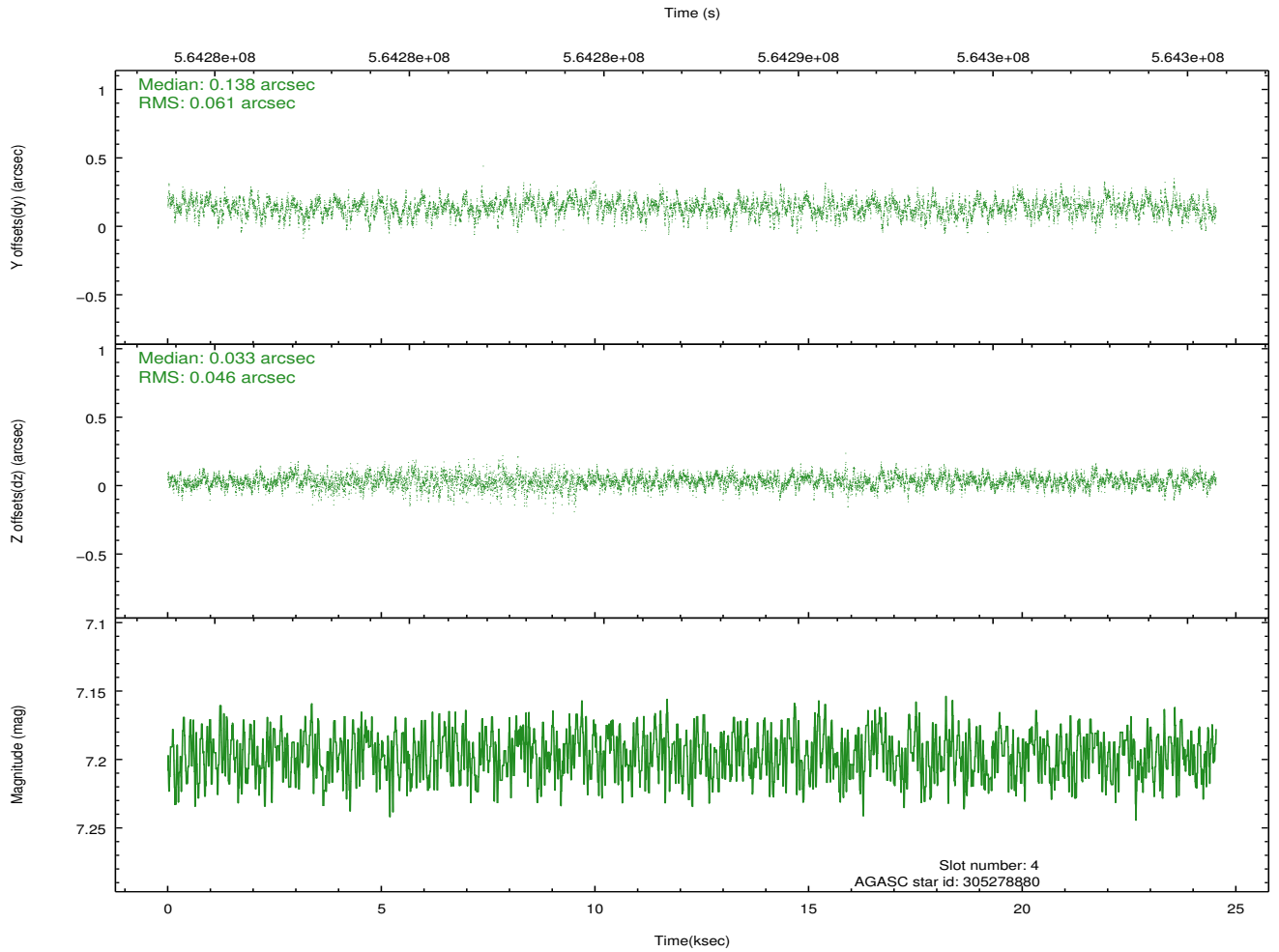
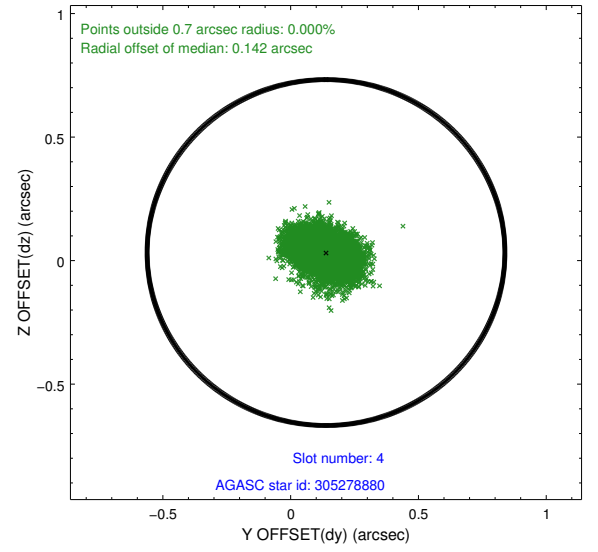
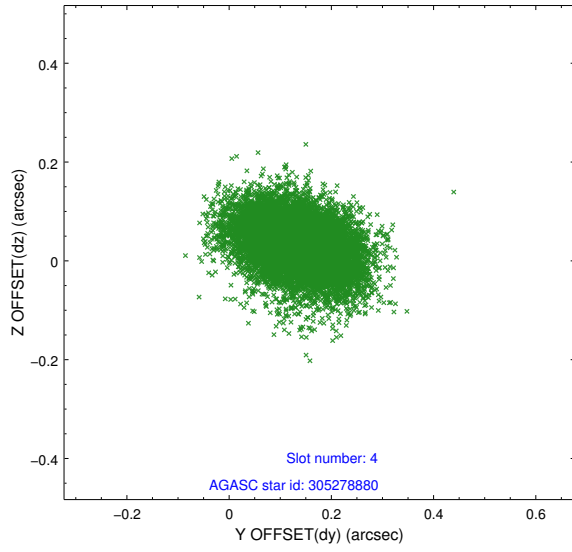
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.15	5984	-0.179	-0.046	0.037	0.074	0.000000	0.000000	-768.75	-848.26
1	FID		ACIS-I-4	7.21	5985	0.403	0.111	0.025	0.044	0.000000	0.000000	2145.83	1057.99
2	FID		ACIS-I-5	7.26	5985	-0.320	0.004	0.027	0.042	0.000000	0.000000	-1822.55	1055.90
3	GUIDE	used	305147176	7.78	11969	-0.158	0.100	0.094	0.156	40.109077	32.320442	1780.91	-1649.06
4	GUIDE	used	305278880	7.20	11970	0.138	0.033	0.080	0.137	41.005714	32.370308	132.61	530.39
5	GUIDE	used	305271112	7.72	11968	0.078	-0.057	0.090	0.143	40.672539	32.901478	-905.07	-1365.67
6	GUIDE	used	305275512	7.71	11966	-0.092	0.003	0.098	0.158	40.696155	32.869449	-848.19	-1243.74
7	GUIDE	used	305274344	9.03	11965	0.030	-0.081	0.105	0.171	41.280796	32.752238	-1474.35	464.43

2.4 Star Slots

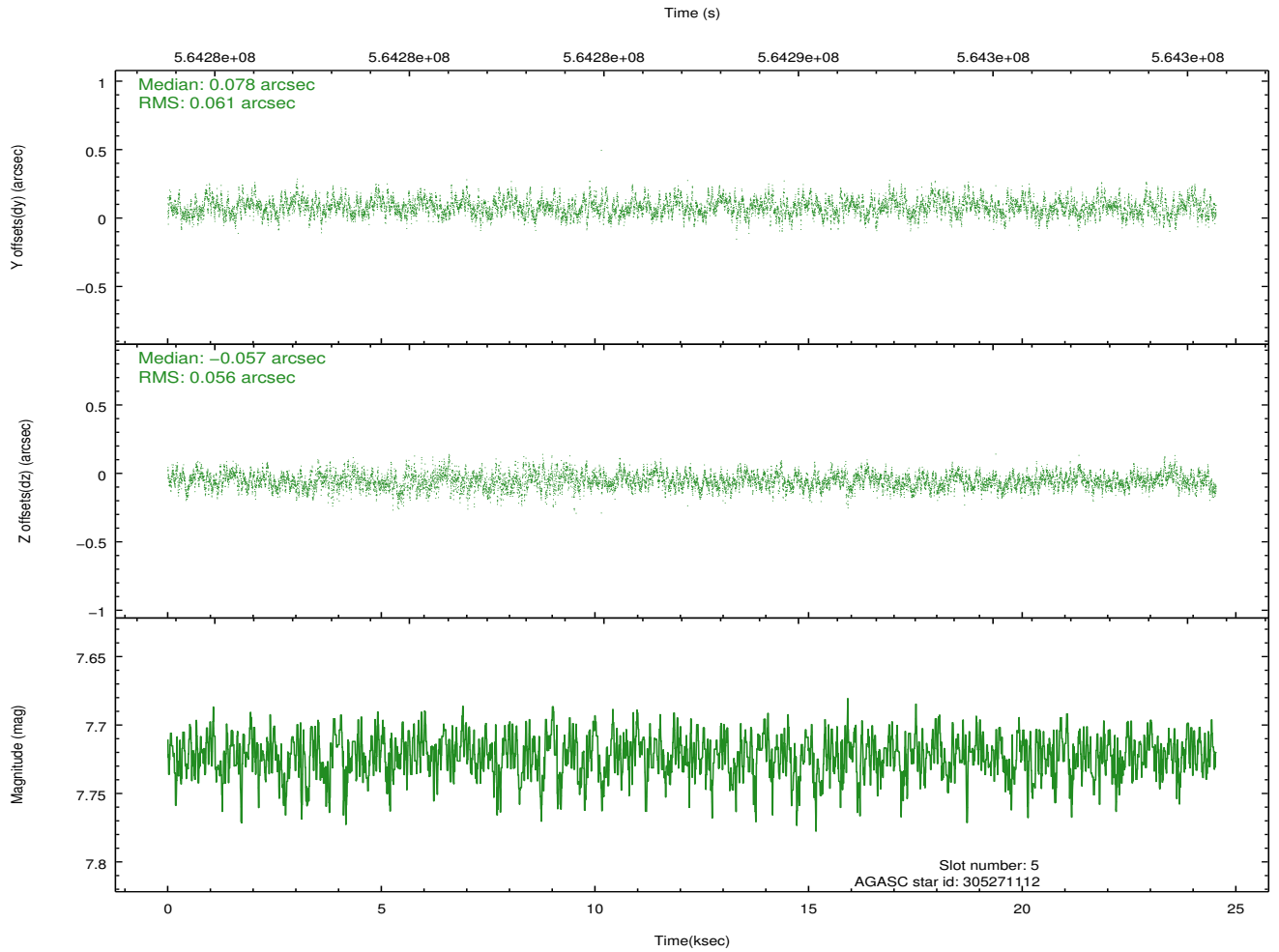
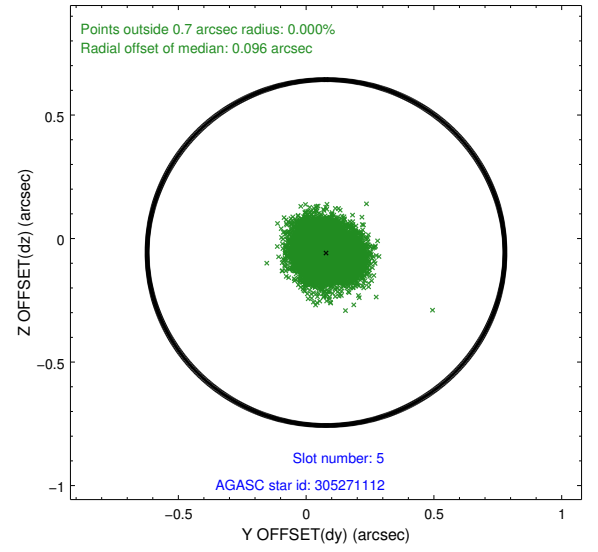
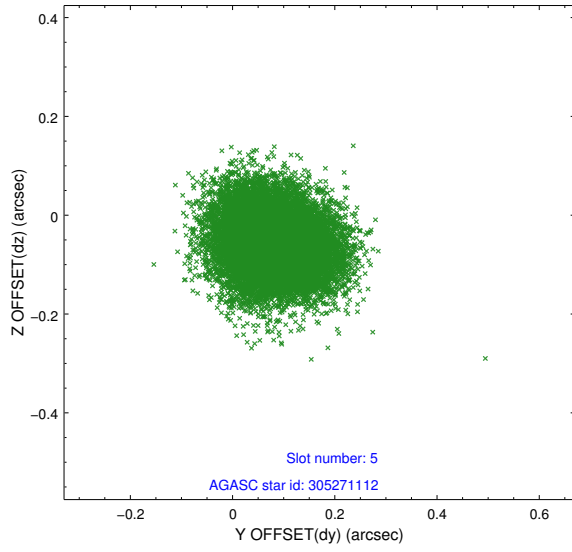
2.4.1 Slot 3



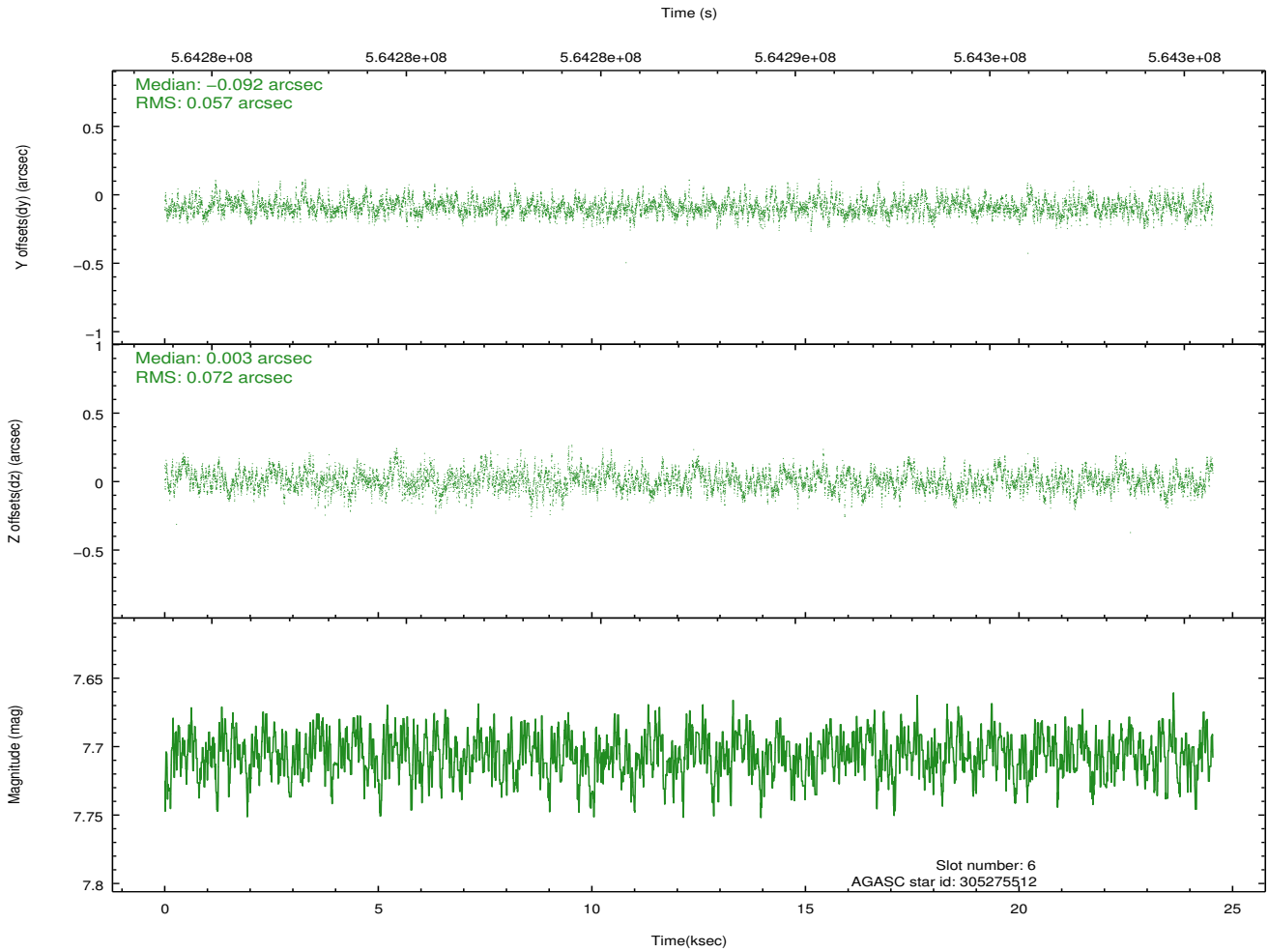
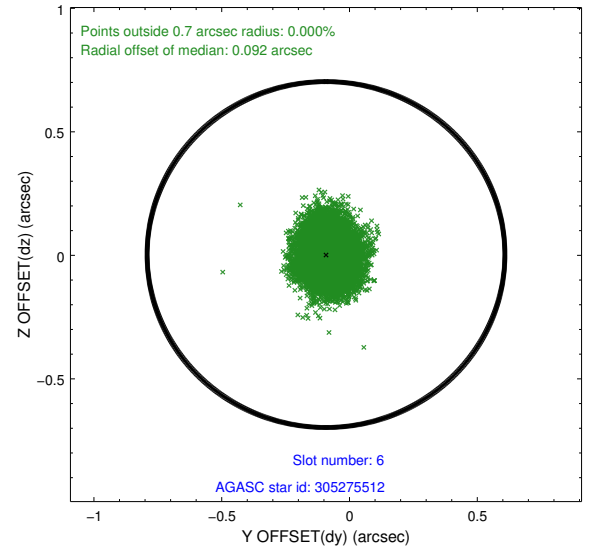
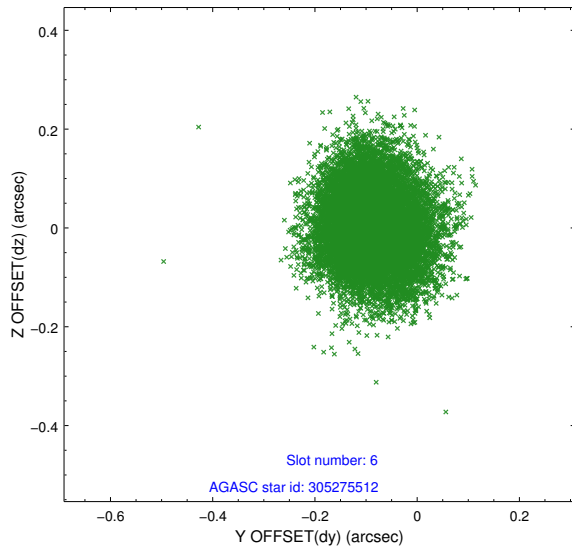
2.4.2 Slot 4



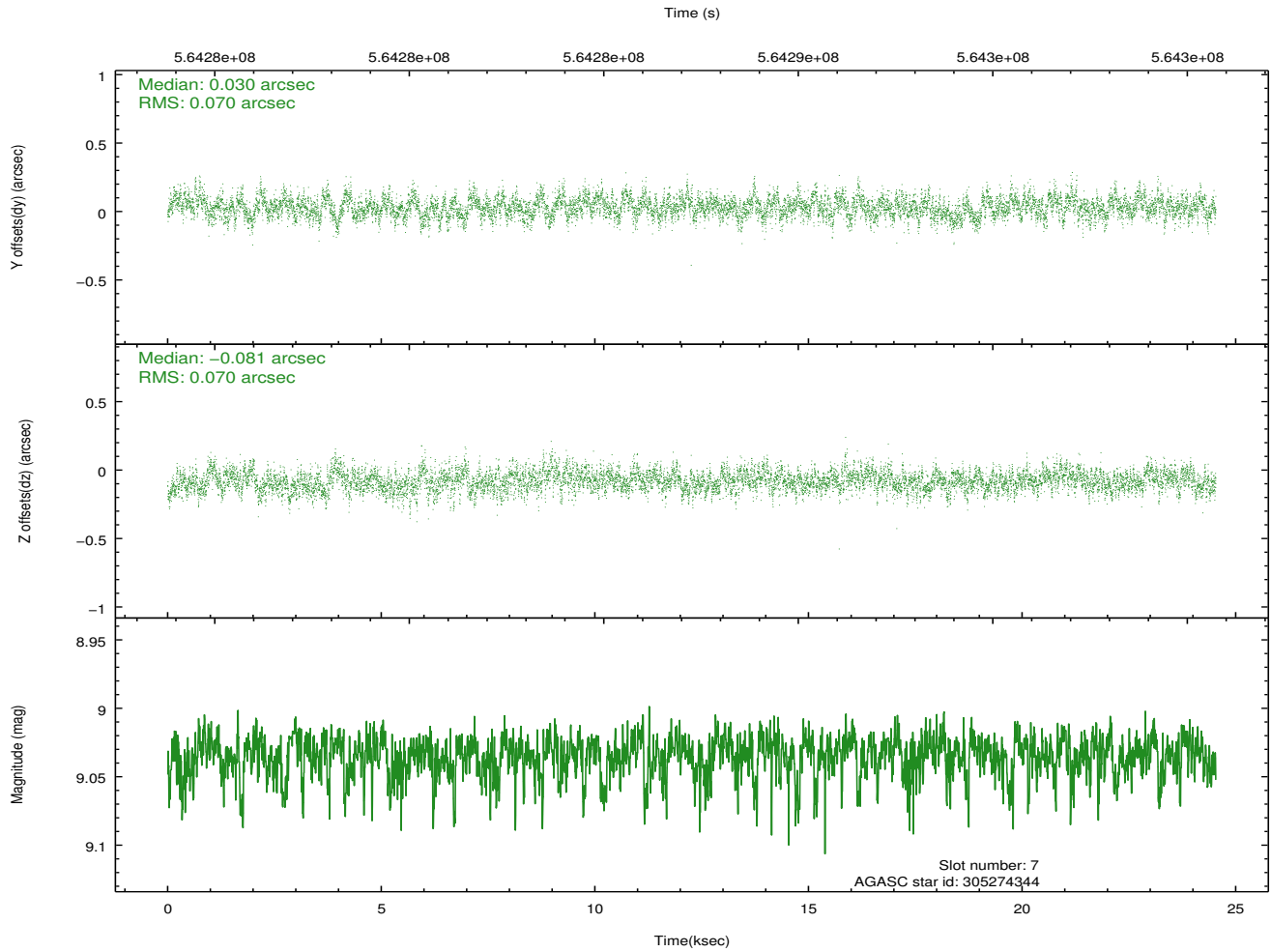
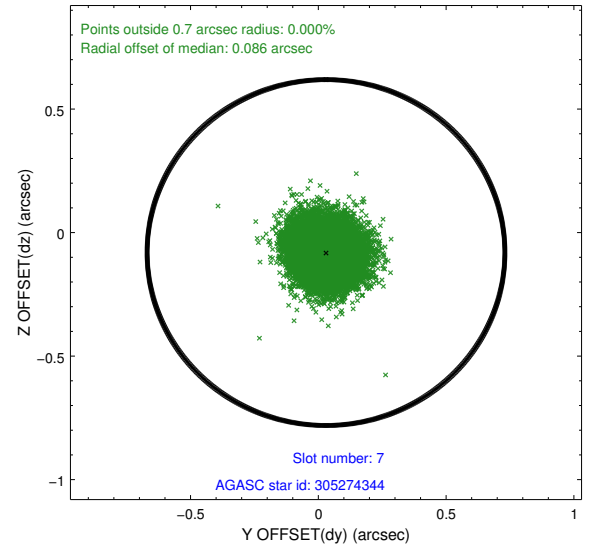
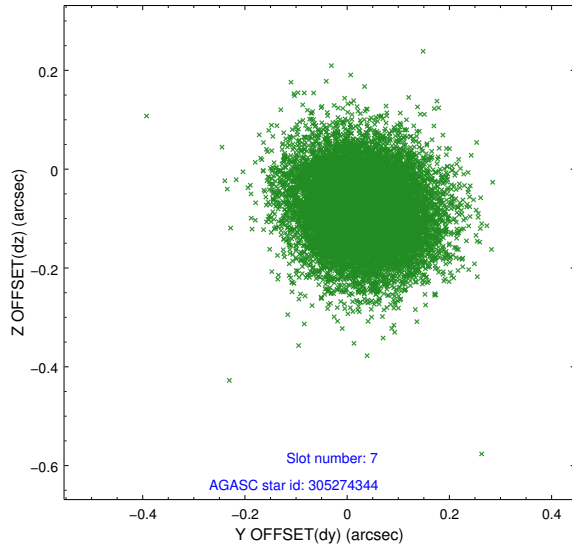
2.4.3 Slot 5



2.4.4 Slot 6

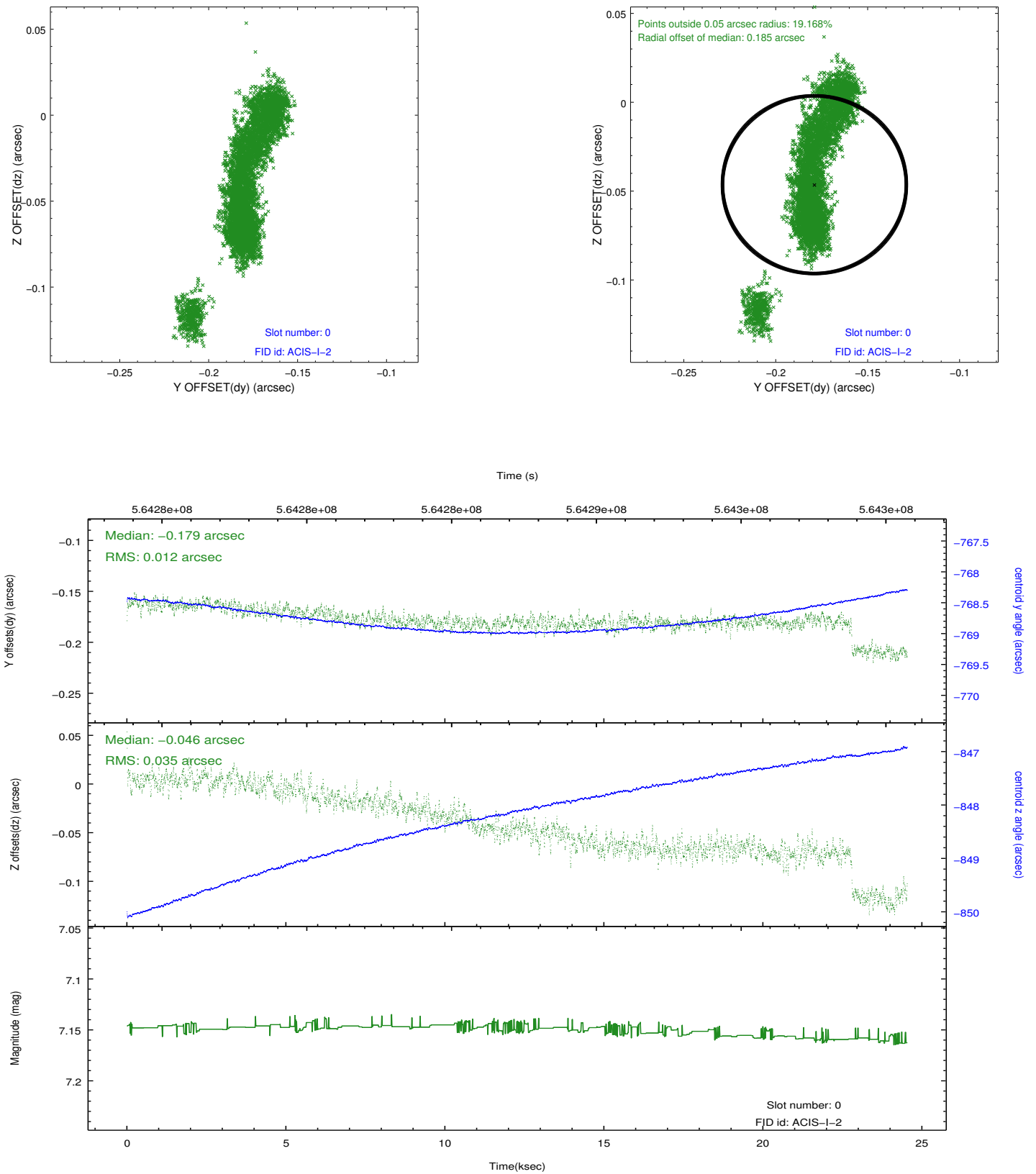


2.4.5 Slot 7

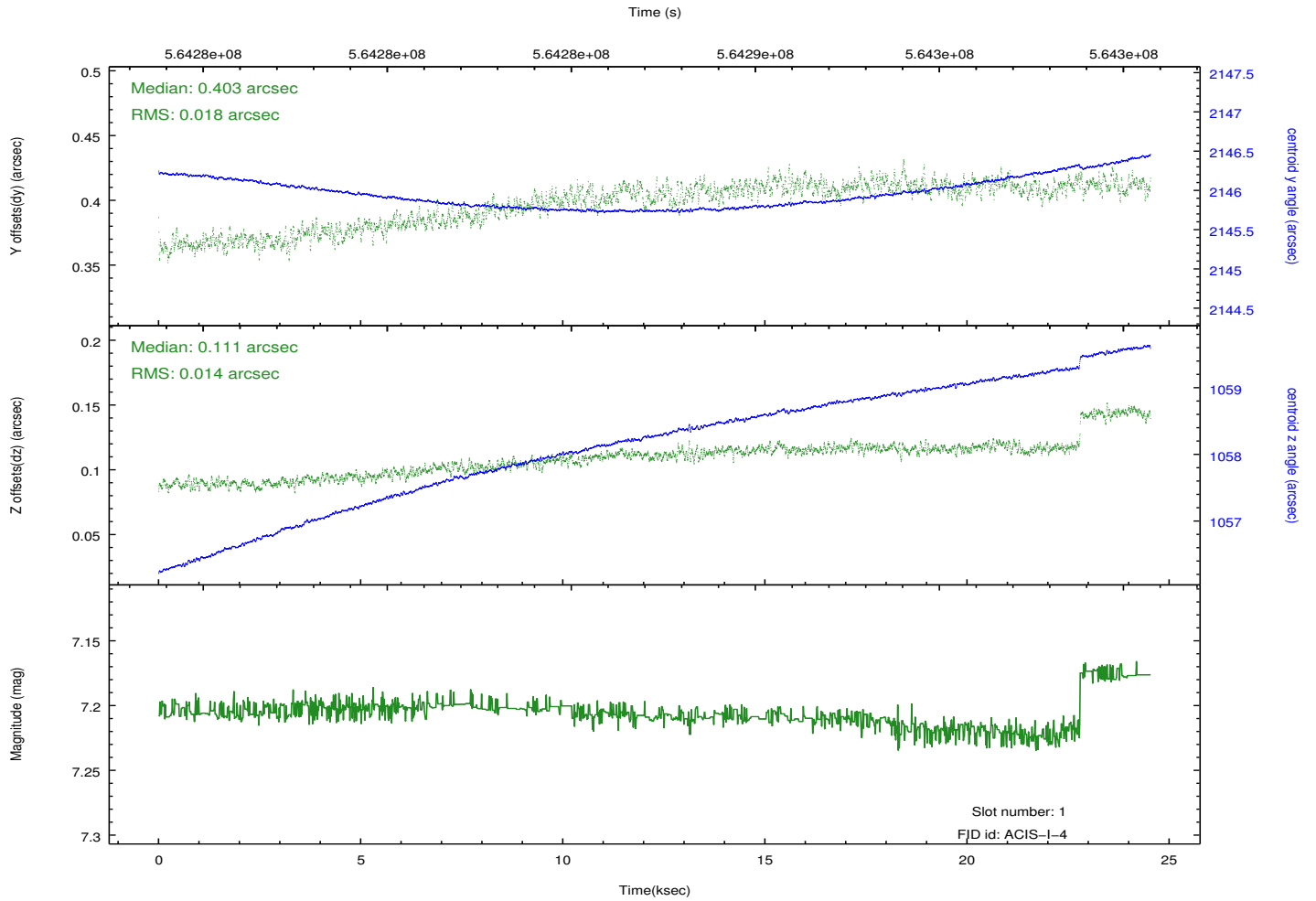
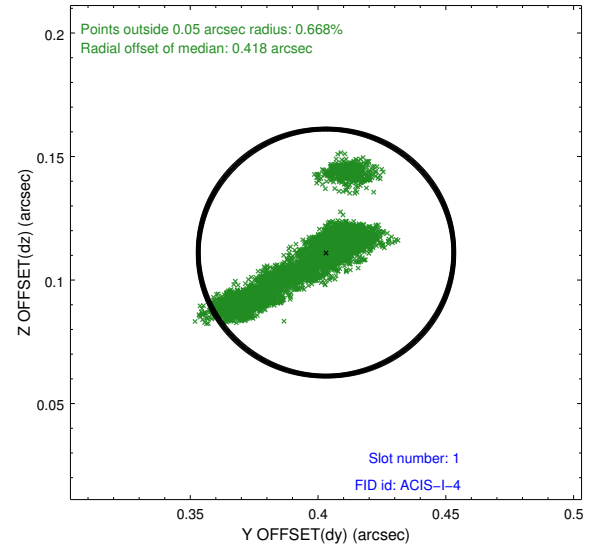
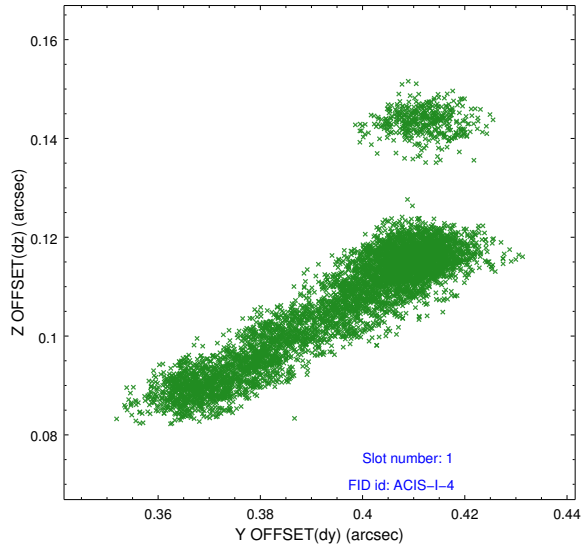


2.5 FID Slots

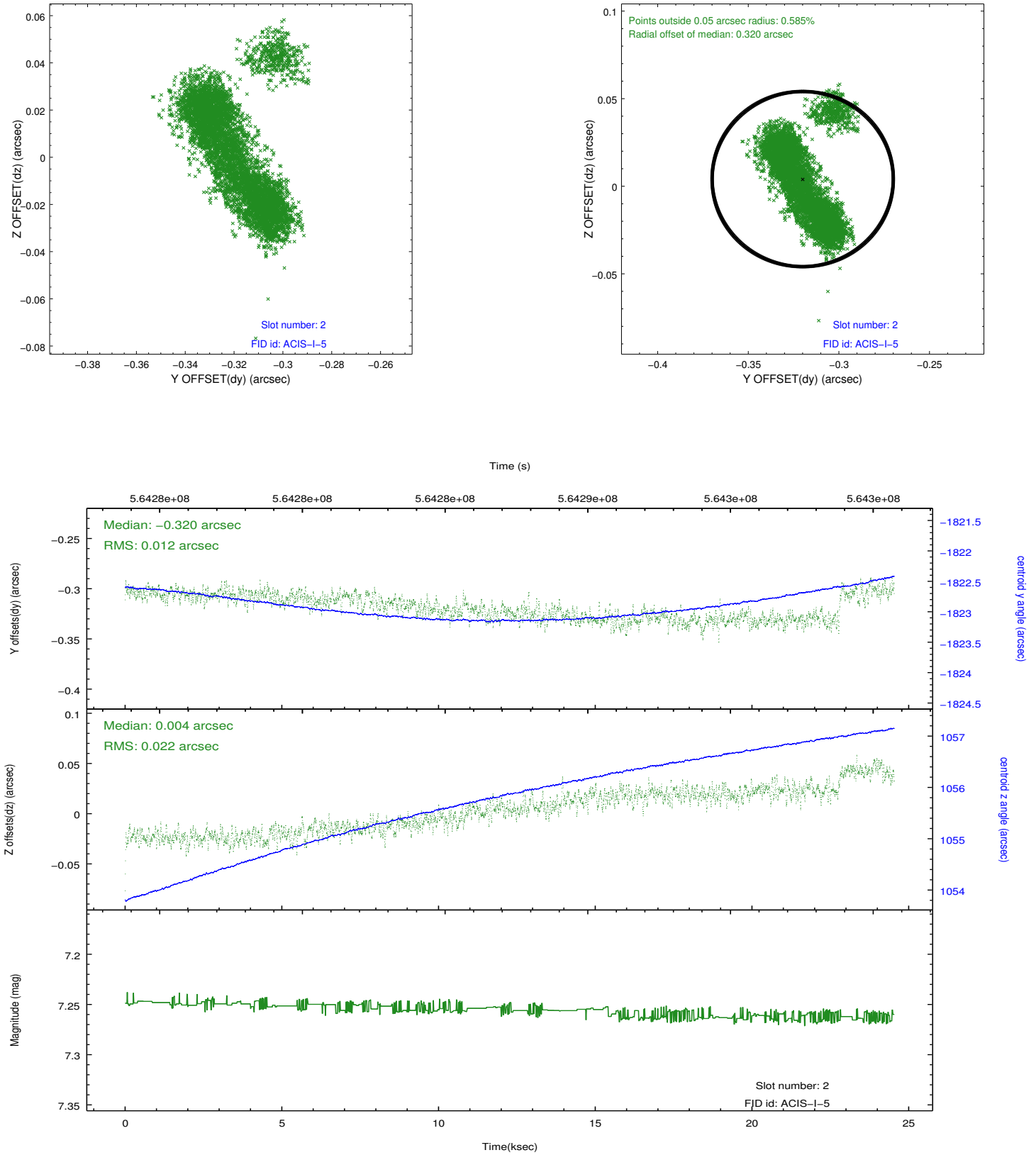
2.5.1 Slot 0



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)	2015.11.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.480618128061

A.2 Comments

Optional chip S2 was dropped.