

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16138 - L2 Version 1
Chandra X-Ray Center

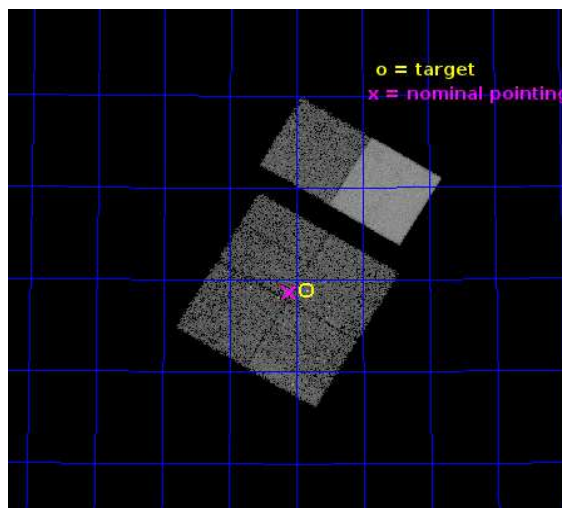
L2 Processing Date : Sep 1 2014

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1 Front

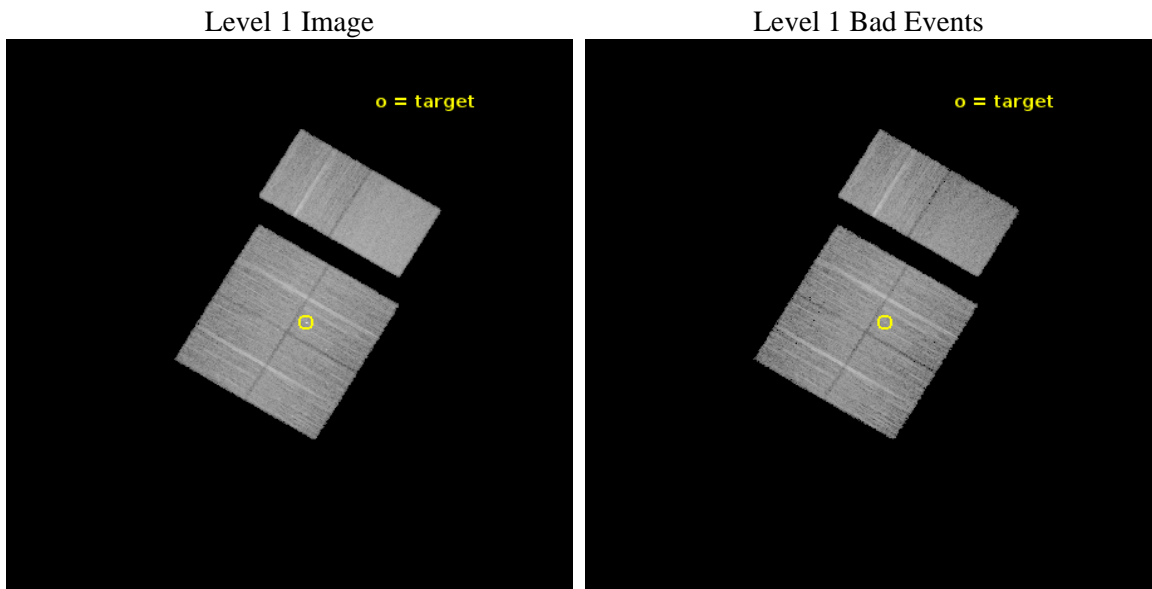
seq_num	801392	Sequence number
obs_id	16138	Observation id
title	Unmasking Galaxy Clusters Masquerading As Quasars	Proposal title
observer	Dr Megan Donahue	Principal investigator
object	RXJ085451.0+621843	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	133.710833	Observer's specified target RA [deg]
dec_targ	62.313889	Observer's specified target Dec [deg]
ra_nom	133.7762961299	Nominal RA [deg]
dec_nom	62.310593967348	Nominal Dec [deg]
roll_nom	30.92802316586	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17970.487865448	Sum of GTIs [s]
livetime	17742.934727567	Livetime [s]
ontime0	17970.364745438	Sum of GTIs [s]
ontime1	17970.405785441	Sum of GTIs [s]
ontime2	17970.446825445	Sum of GTIs [s]
ontime3	17970.487865448	Sum of GTIs [s]
ontime6	17970.569945455	Sum of GTIs [s]
ontime7	17970.528905451	Sum of GTIs [s]
l2events	100129	Number of level 2 events



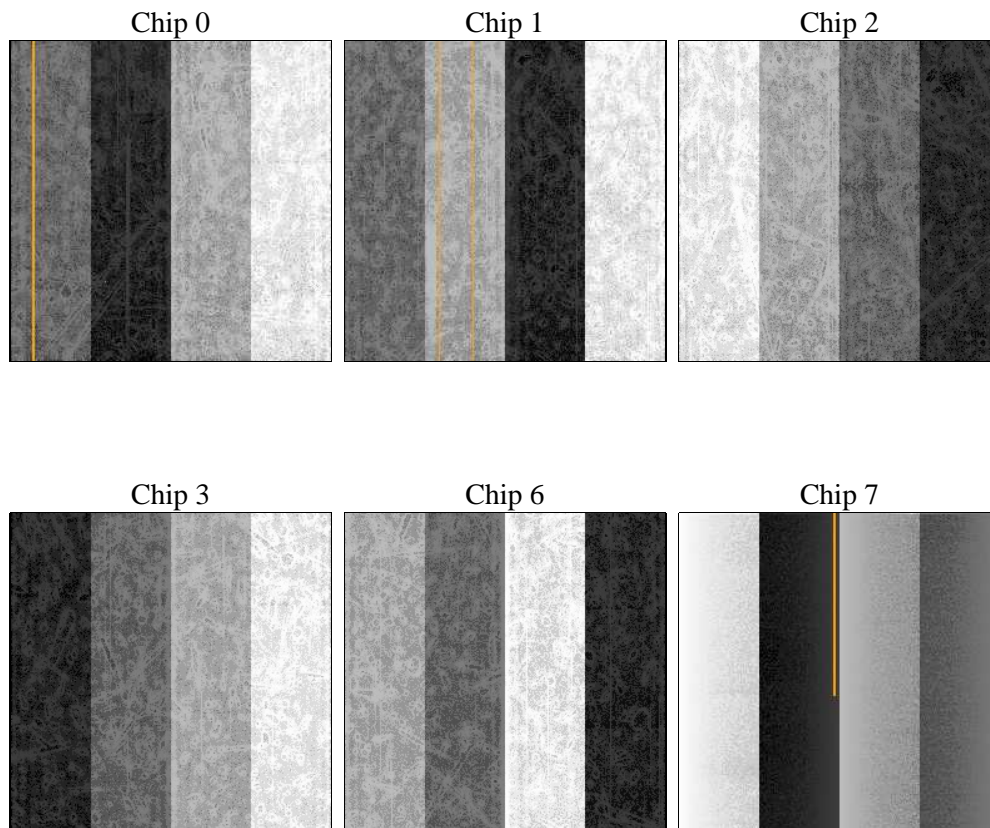
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	17970.487865448	Sum of GTIs [s]
caldbver	4.6.2	 	ontime0	17970.364745438	Sum of GTIs [s]
date	2014-09-01T04:18:52	Date and time of file creation	ontime1	17970.405785441	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	17970.446825445	Sum of GTIs [s]
			ontime3	17970.487865448	Sum of GTIs [s]
			ontime6	17970.569945455	Sum of GTIs [s]
			ontime7	17970.528905451	Sum of GTIs [s]
			l1events	573637	Number of level 1 events

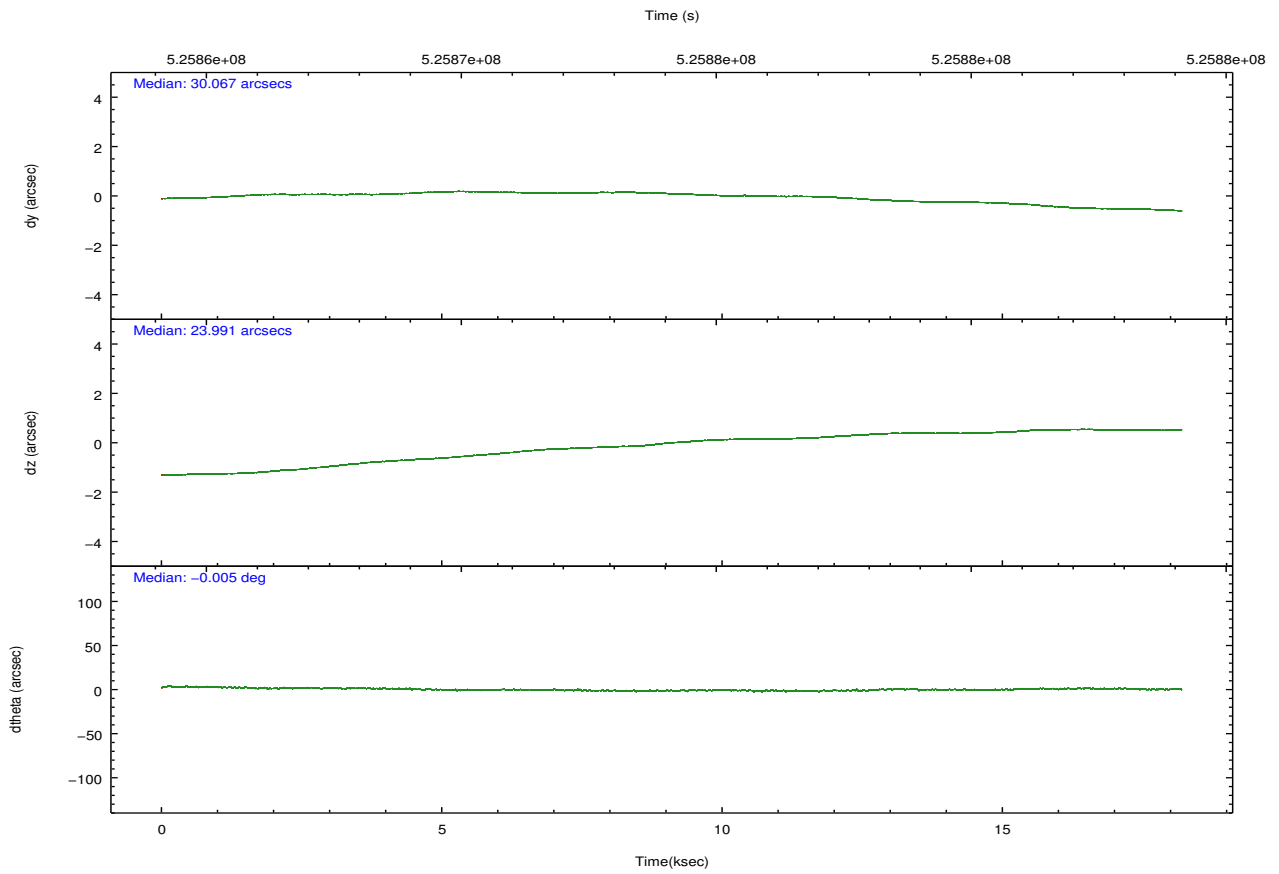
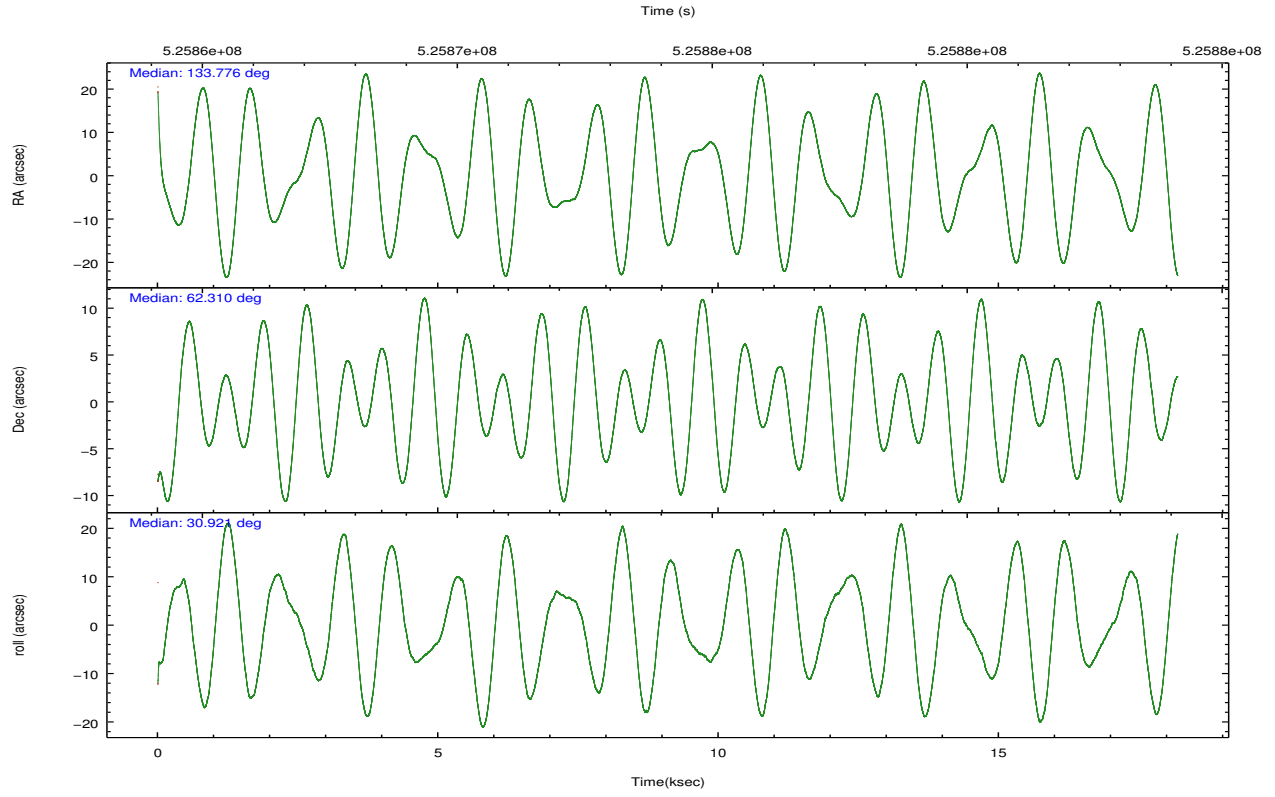
2.1.4 Events

	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	81831	87107	92118	90730	96816	125035	grade 0 events	3631	4333	3563	4261	3761	4798
rejected events	71266	74781	81862	79575	85337	70766		4%	4%	3%	4%	3%	3%
rejected %	87%	85%	88%	87%	88%	56%	grade 1 events	42	39	42	65	40	165
								0%	0%	0%	0%	0%	0%
							grade 2 events	2685	3042	2556	2350	2674	11276
								3%	3%	2%	2%	2%	9%
							grade 3 events	1107	1214	1033	1165	1210	4544
								1%	1%	1%	1%	1%	3%
							grade 4 events	991	1165	1041	1135	1151	4580
								1%	1%	1%	1%	1%	3%
							grade 5 events	4300	4580	3943	4790	4926	13014
								5%	5%	4%	5%	5%	10%
							grade 6 events	2153	2580	2063	2244	2686	29082
								2%	2%	2%	2%	2%	23%
							grade 7 events	66922	70154	77877	74720	80368	57576
								81%	80%	84%	82%	83%	46%

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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	133.747641	133.776296129897	CCD I2 on	Y	Y
[deg] Pointing Dec	62.286446	62.3105939673479	CCD I3 on	Y	Y
[deg] Pointing Roll	30.744696	30.92802316586001	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	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	525865223.184000	525864007.95016	CCD S5 on	N	N
Observation start date	2014-08-31T09:39:16	2014-08-31T09:20:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	525883223.184000	525884223.51378	On-chip summing requested	N	N
Observation end date	2014-08-31T14:39:16	2014-08-31T14:57:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



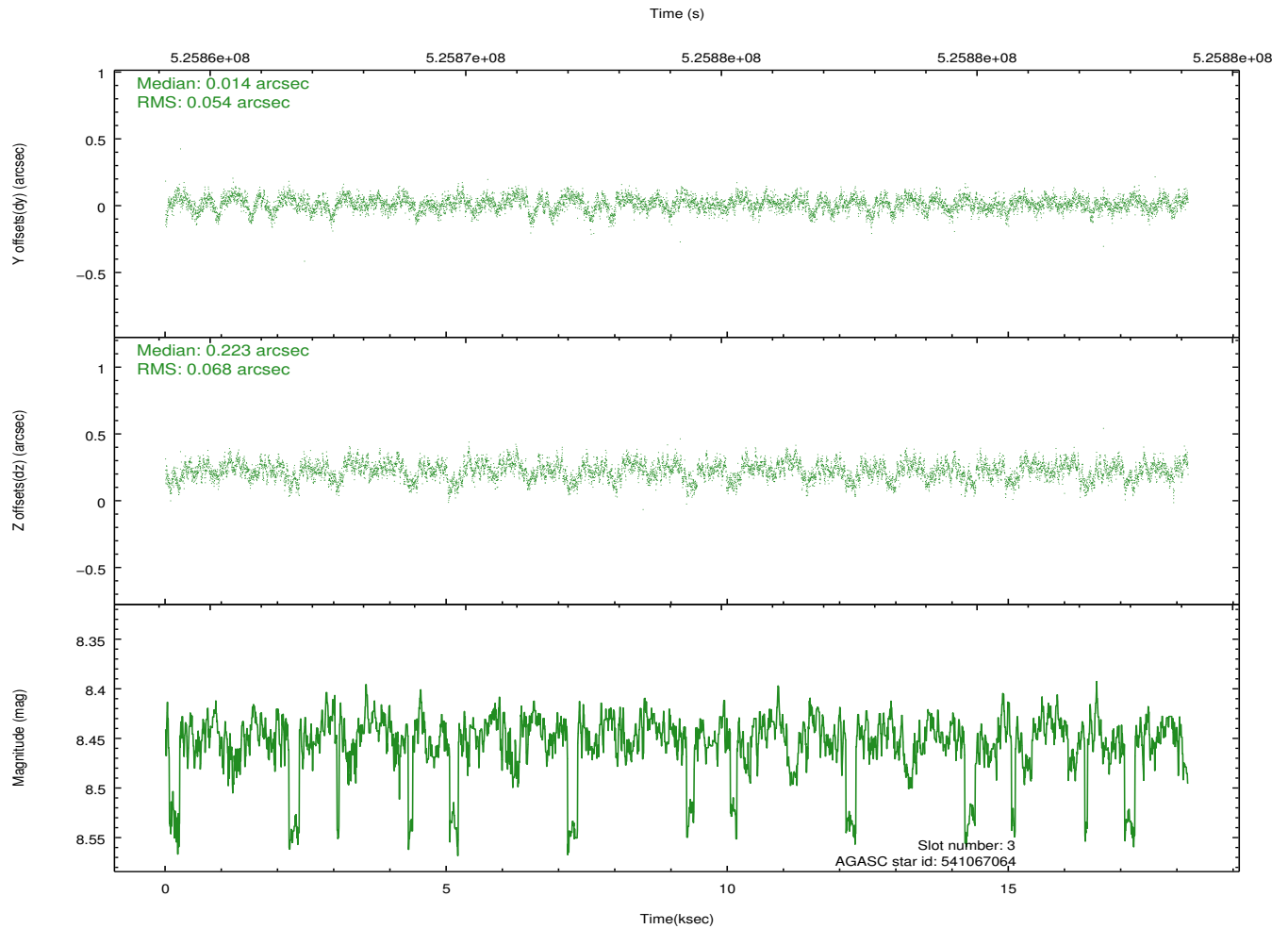
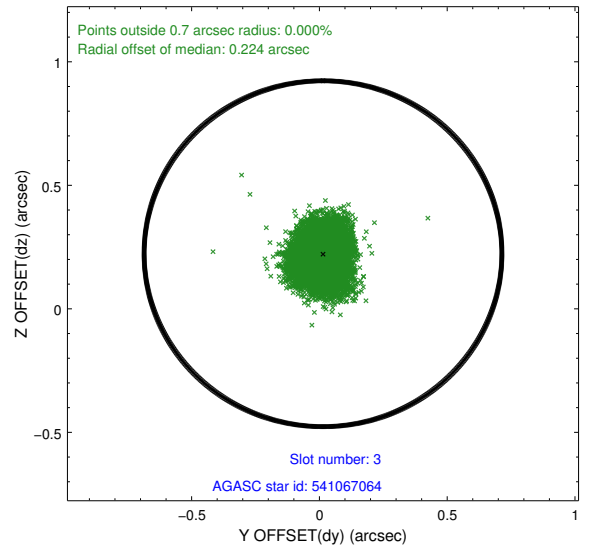
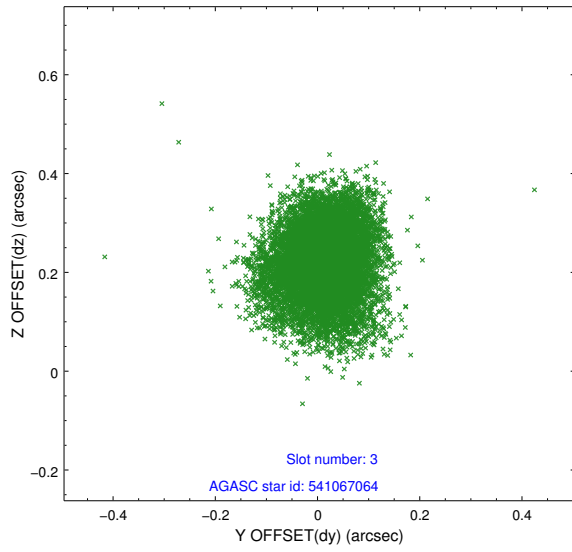
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.09	4437	0.014	0.063	0.017	0.023	0.000000	0.000000	909.12	-847.53
1	FID	ACIS-I-5	7.08	4437	-0.284	0.010	0.011	0.017	0.000000	0.000000	-1839.28	1049.64
2	FID	ACIS-I-6	7.09	4437	0.179	-0.002	0.015	0.022	0.000000	0.000000	374.43	1694.51
3	GUIDE	541067064	8.45	8871	0.014	0.223	0.093	0.151	134.137450	62.069626	167.65	-1004.78
4	GUIDE	541067240	8.93	8869	-0.216	-0.324	0.165	0.251	132.936551	62.151175	-1416.50	285.63
5	GUIDE	541070328	7.35	8872	-0.224	0.118	0.117	0.197	135.068985	61.944804	1305.47	-2181.09
6	GUIDE	541074928	8.62	8873	0.297	0.236	0.144	0.221	133.646734	62.186285	-328.61	-223.03
7	GUIDE	541464984	8.38	8871	0.143	-0.247	0.094	0.151	133.497291	62.583770	189.70	1132.90

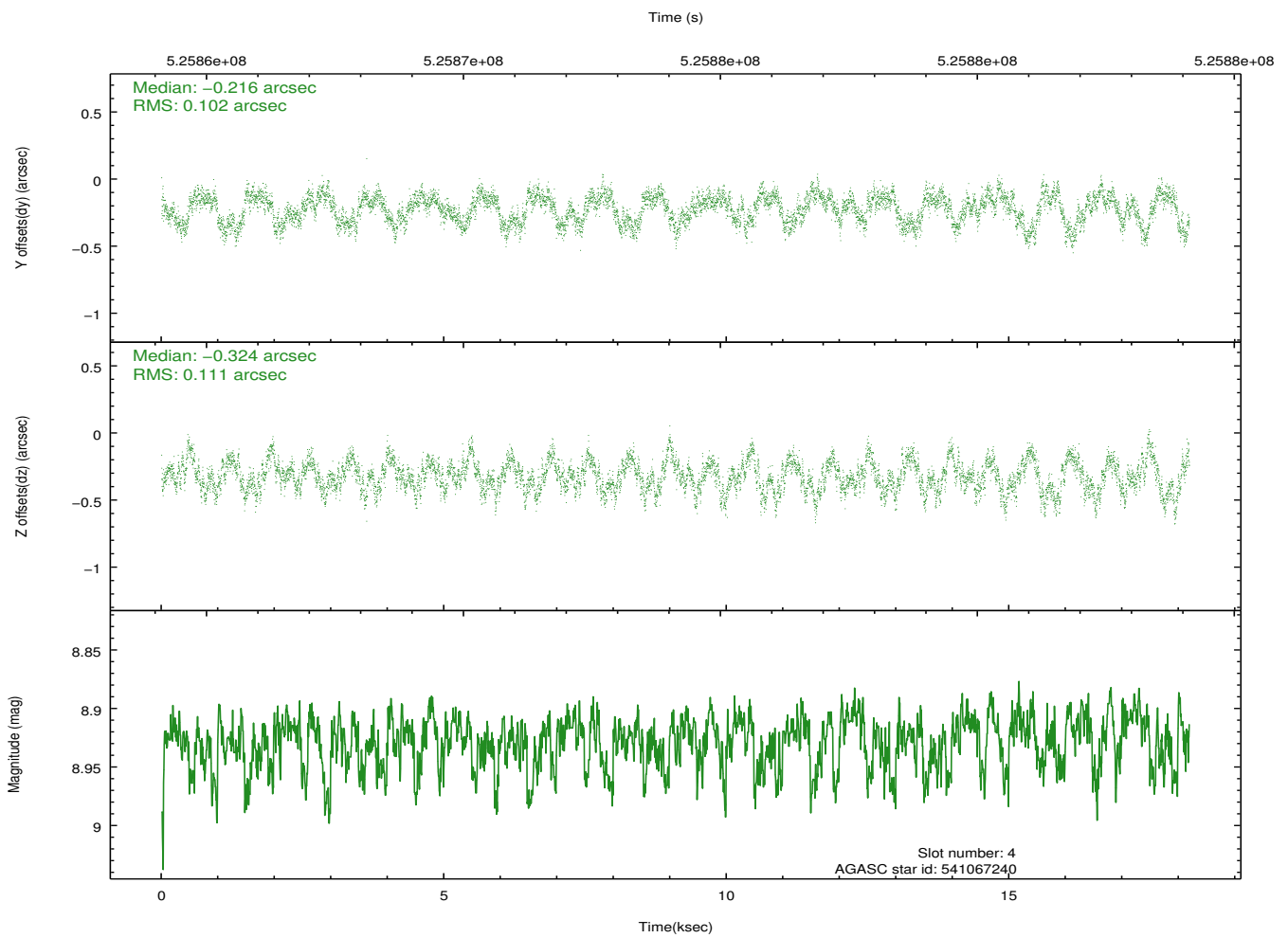
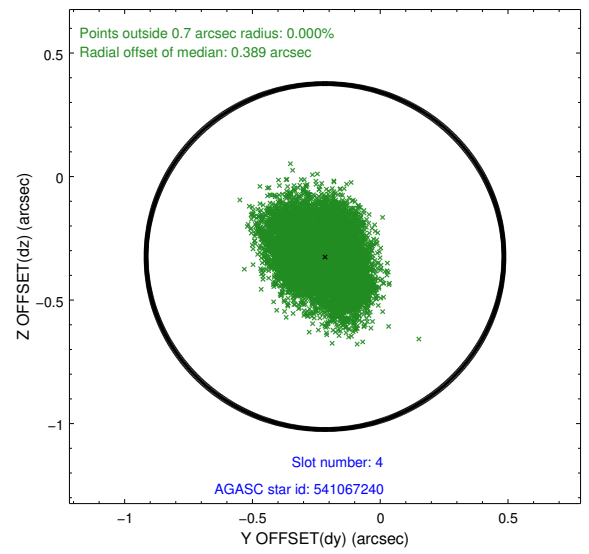
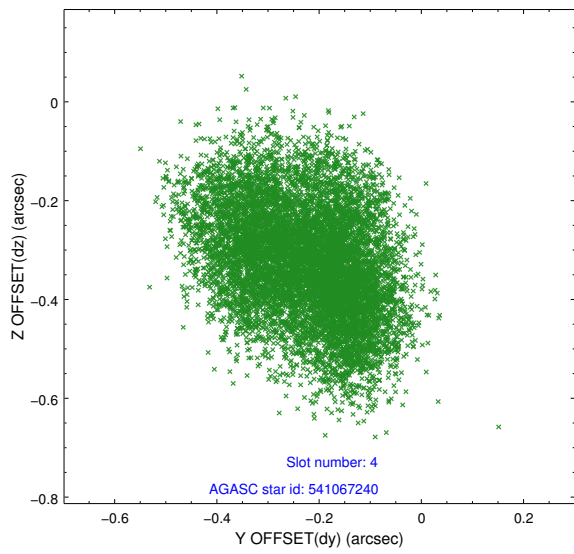
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2.4 Star Slots

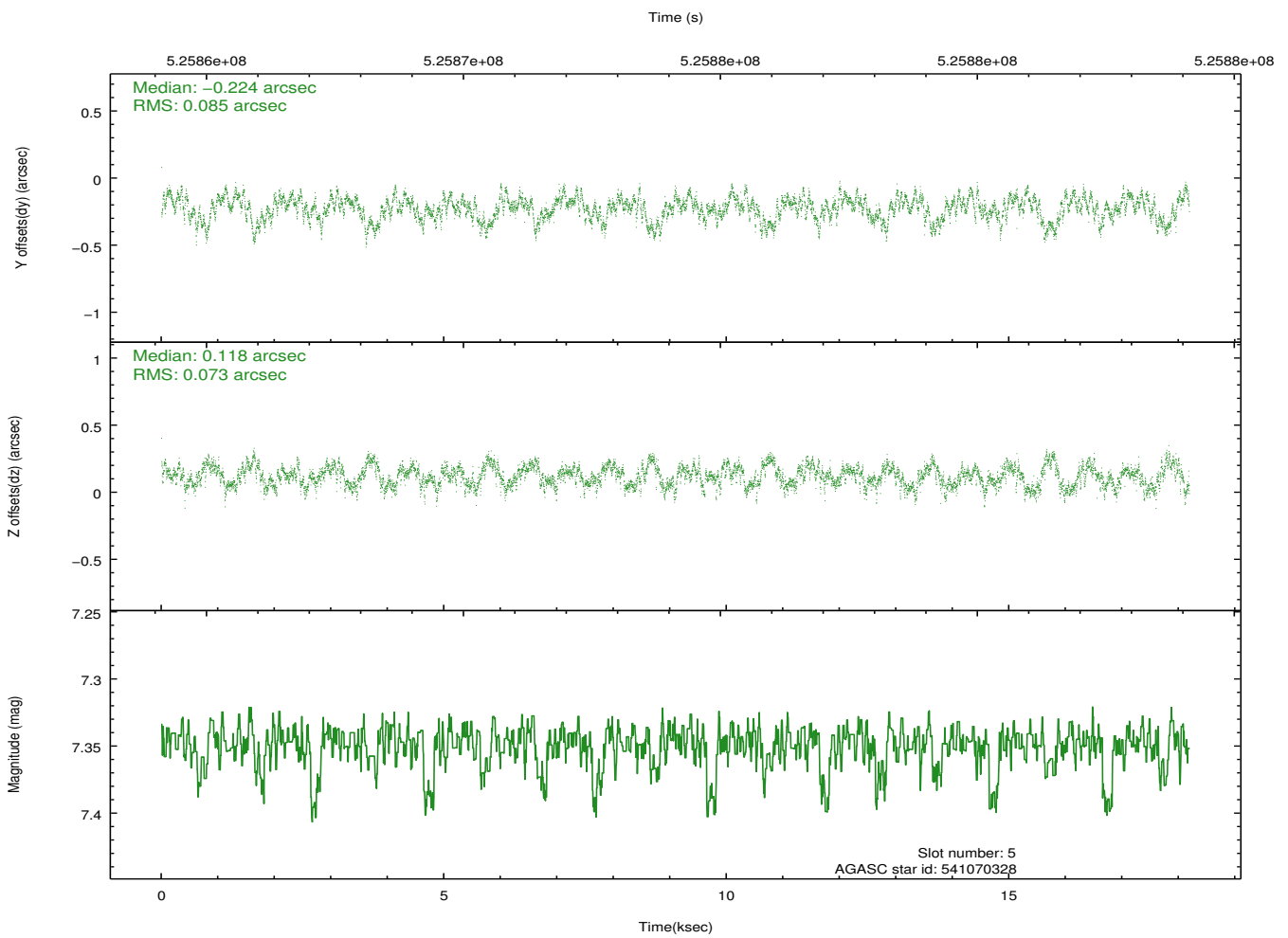
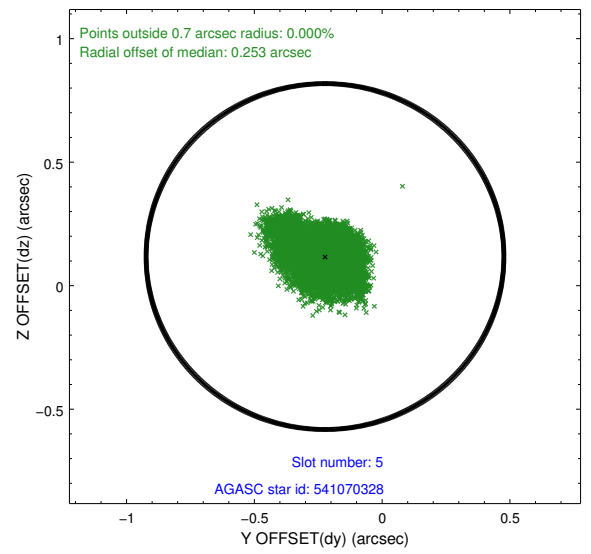
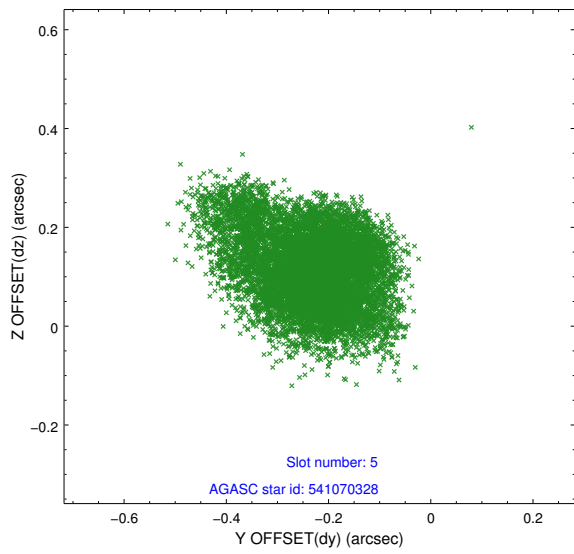
2.4.1 Slot 3



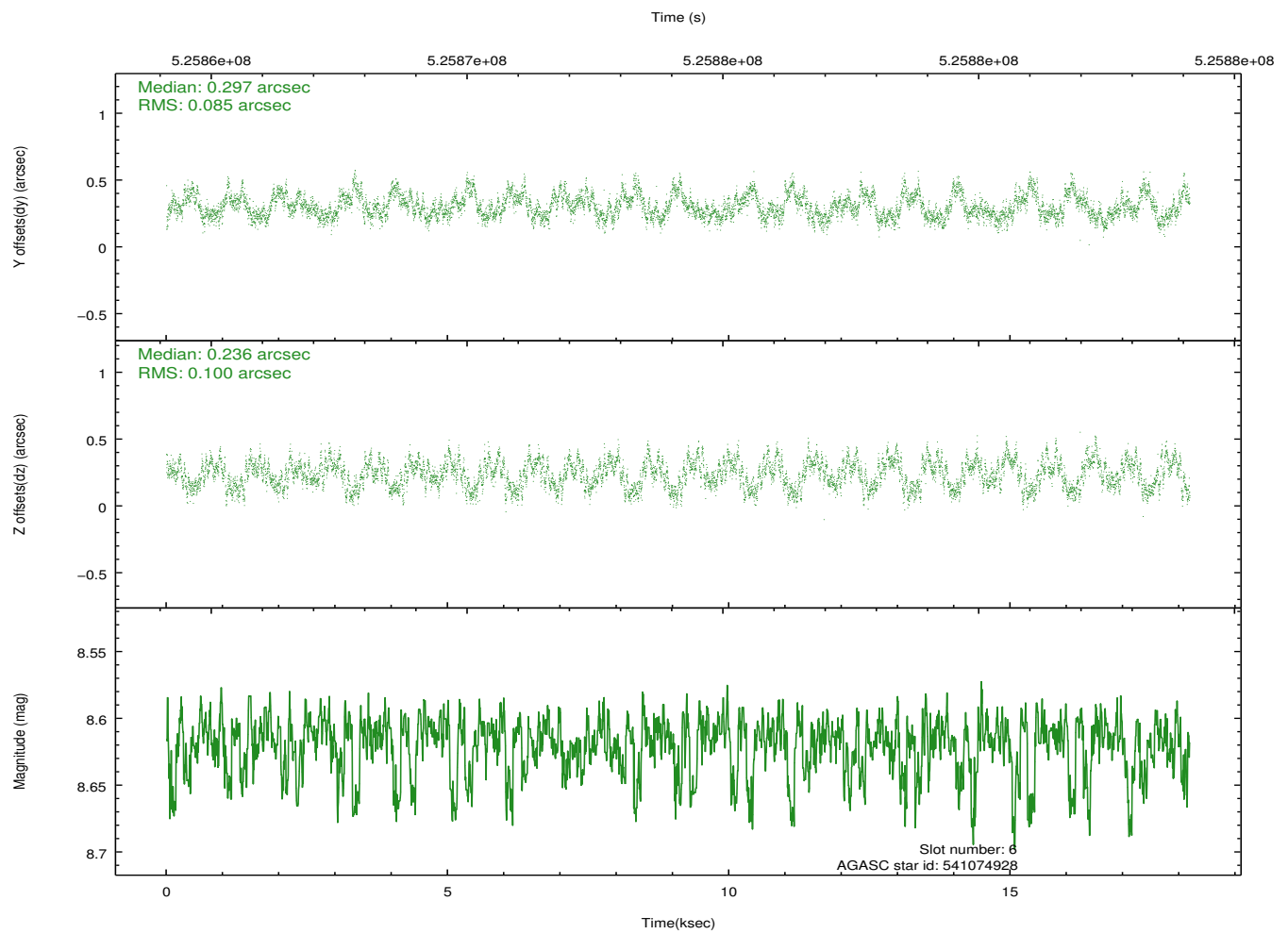
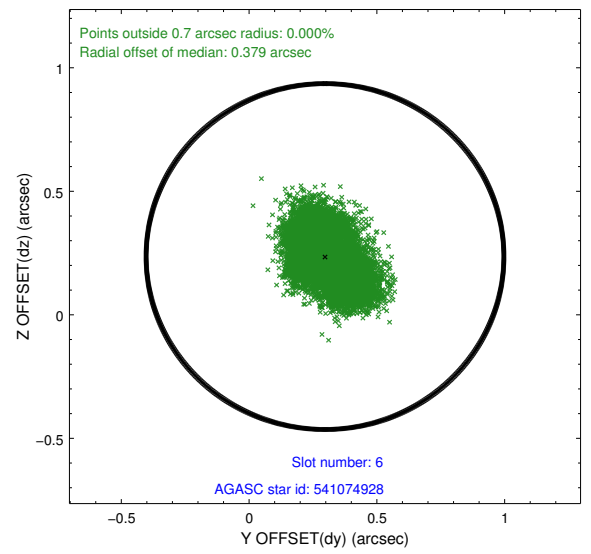
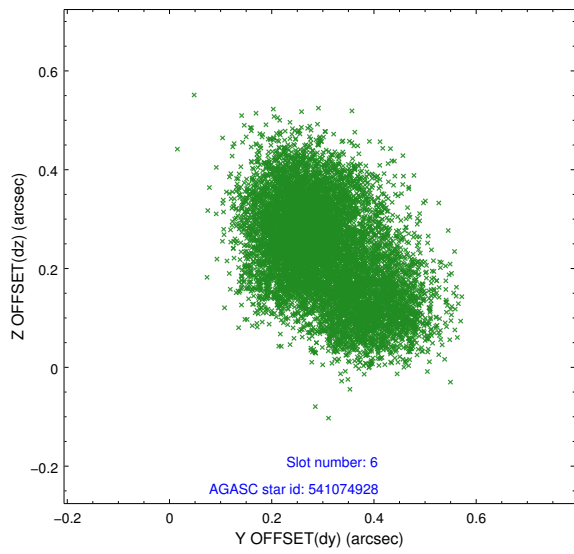
2.4.2 Slot 4



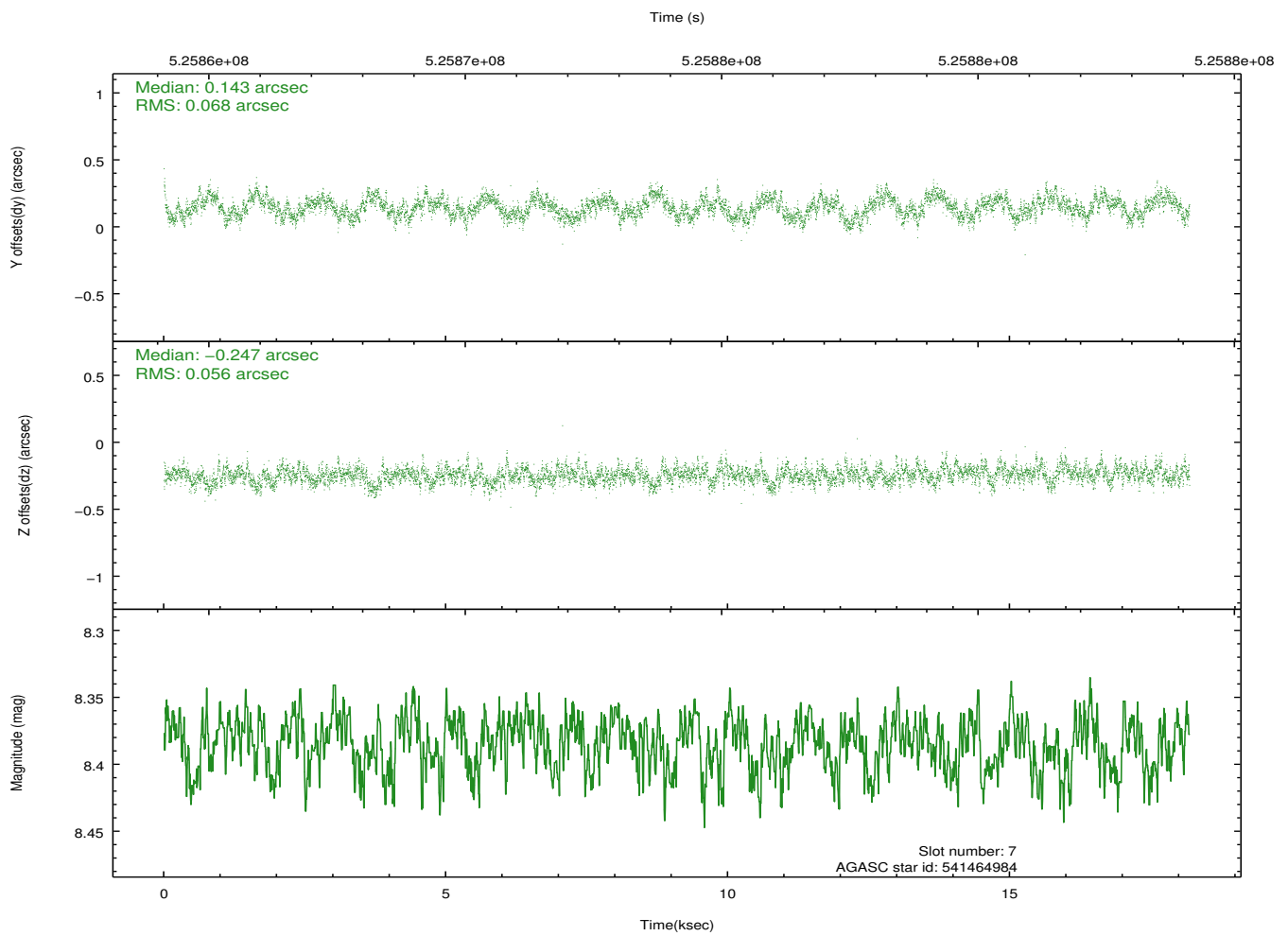
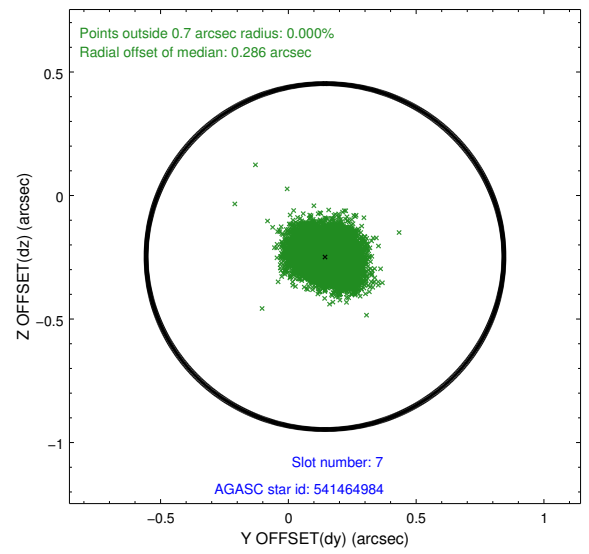
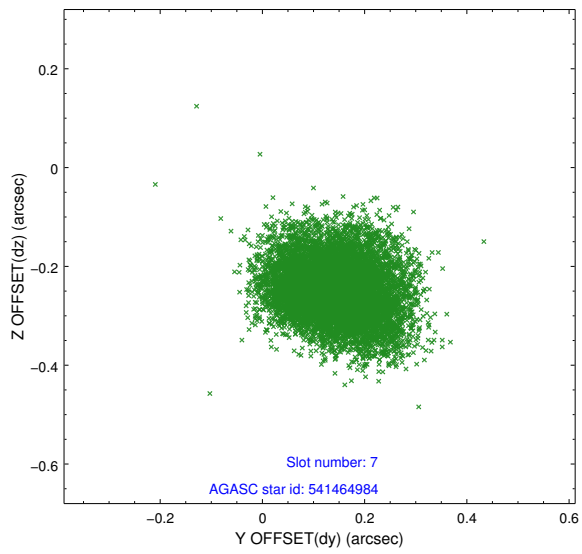
2.4.3 Slot 5



2.4.4 Slot 6

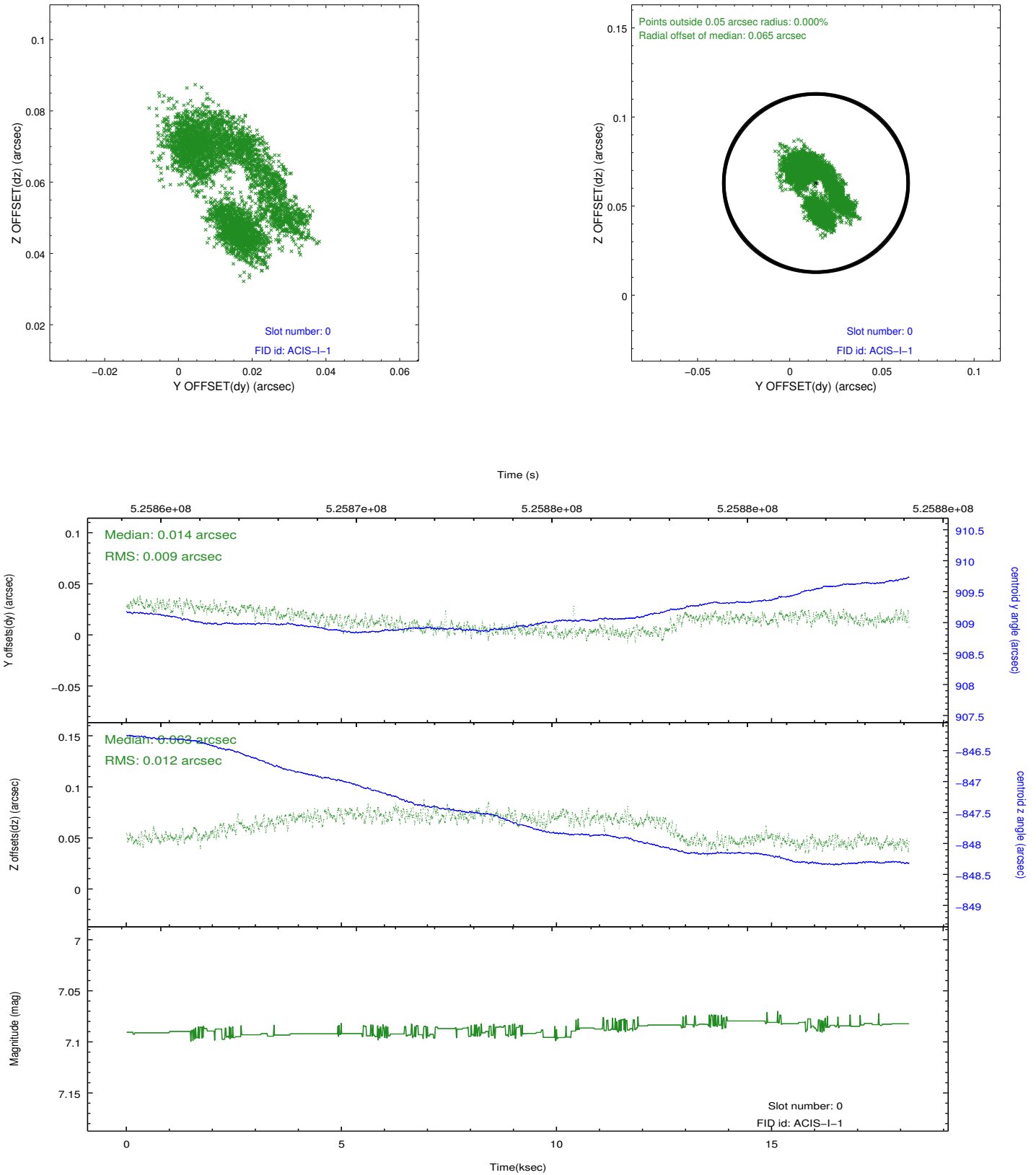


2.4.5 Slot 7

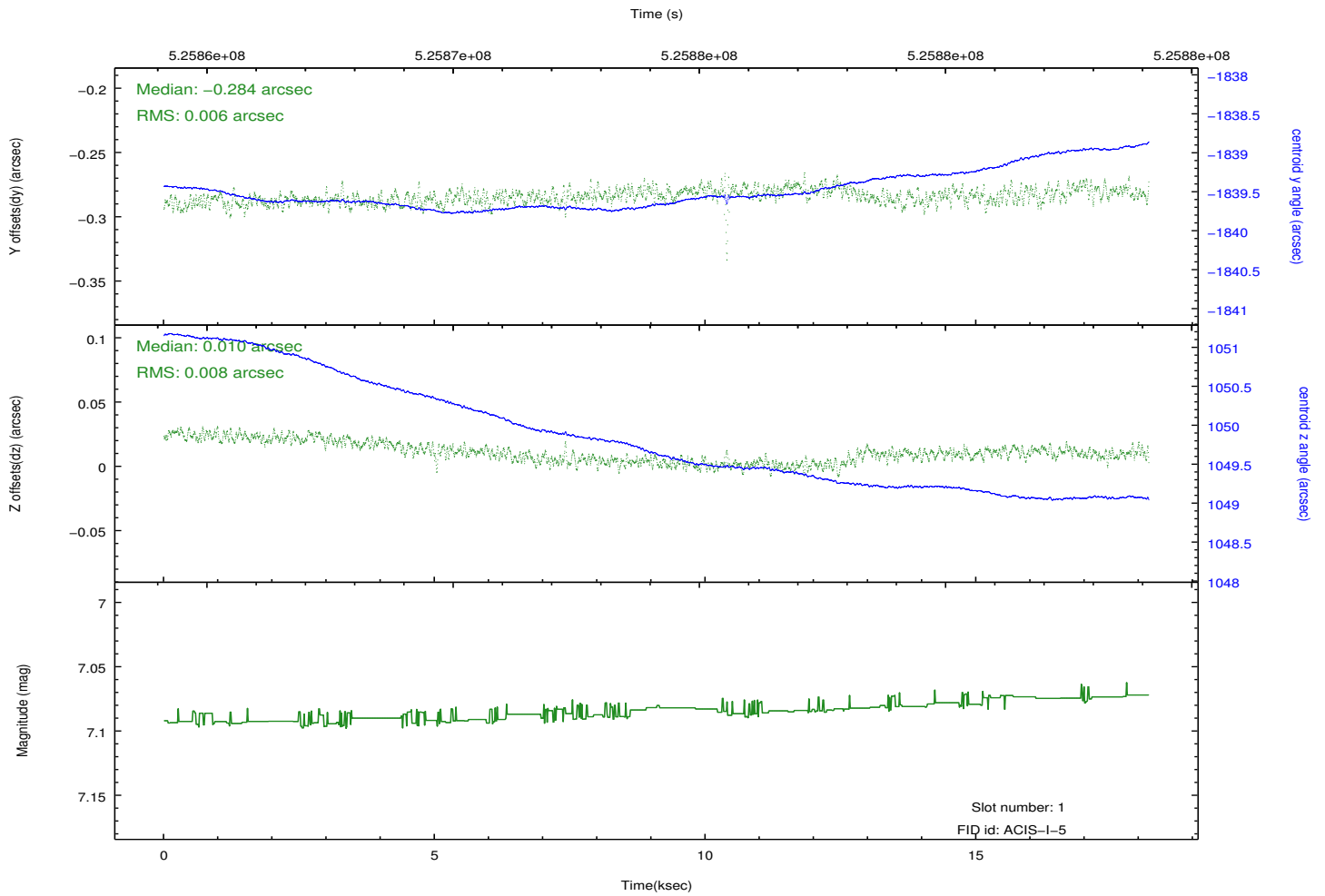
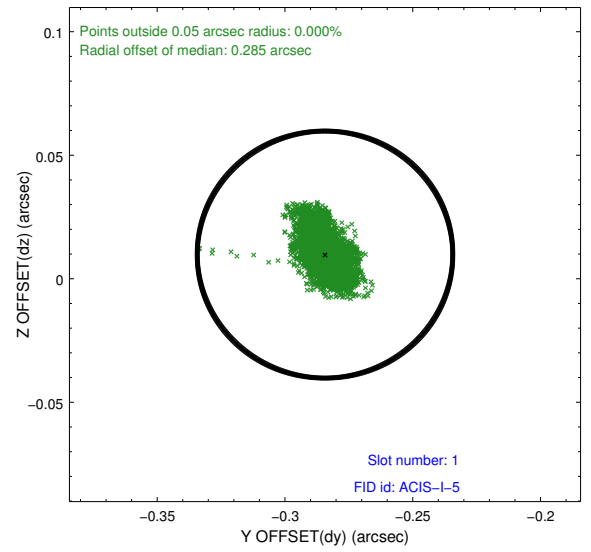
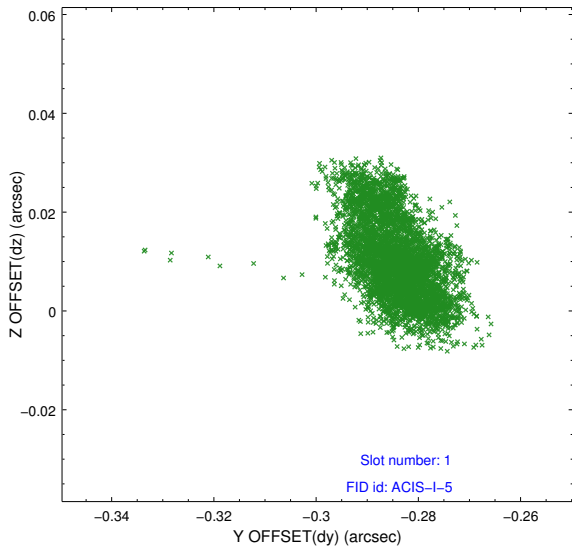


2.5 FID Slots

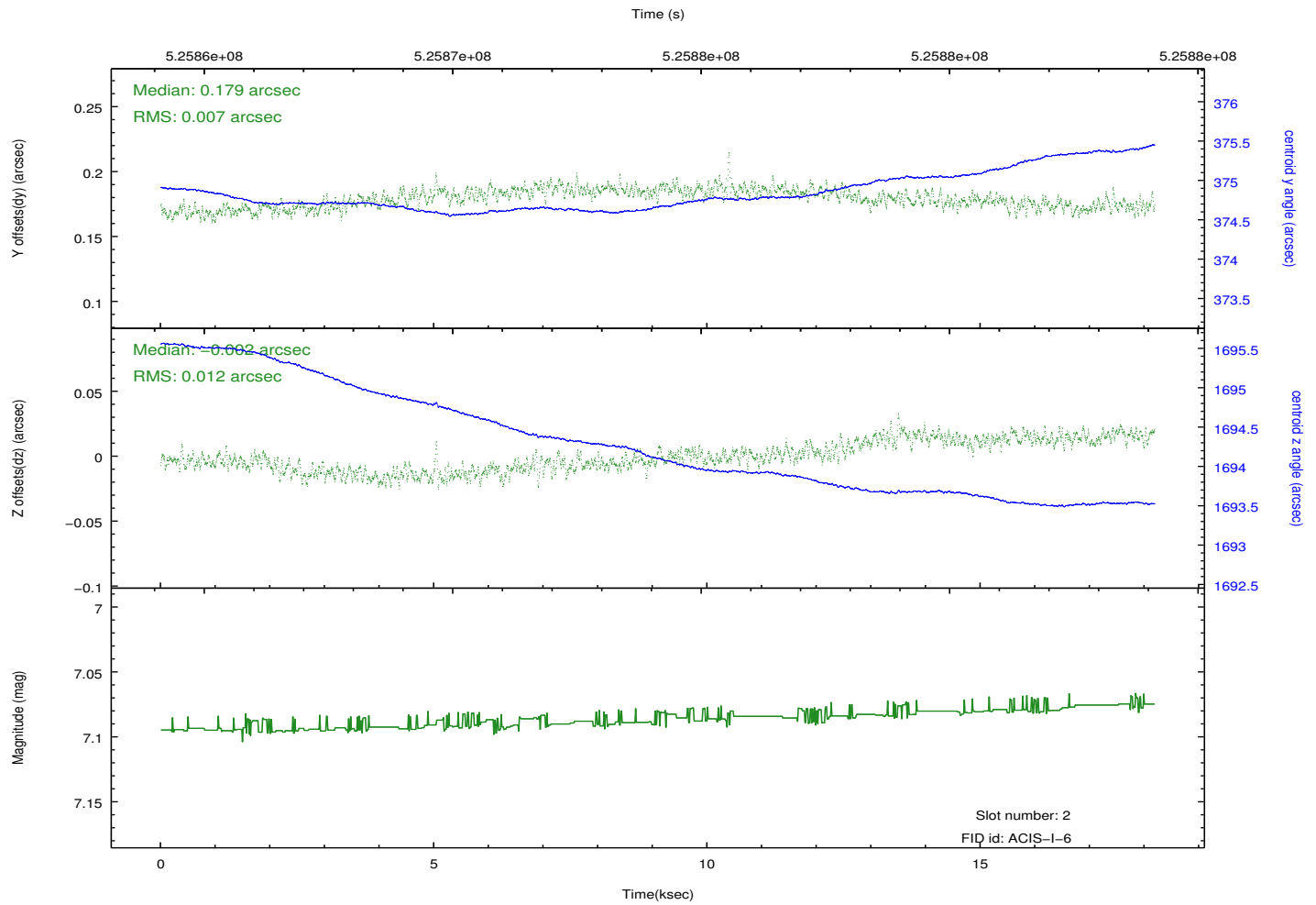
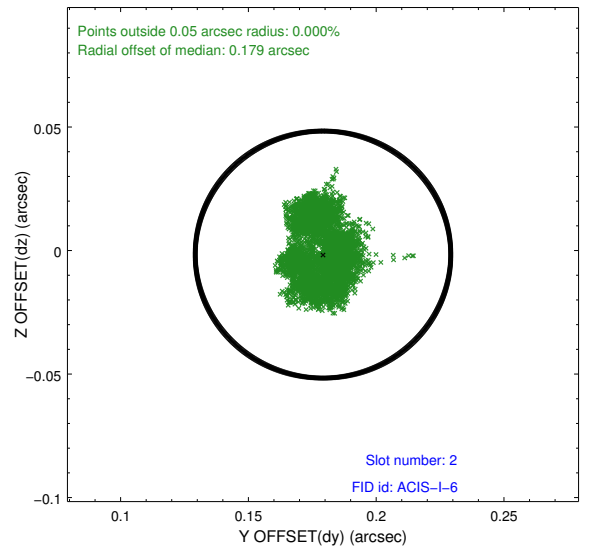
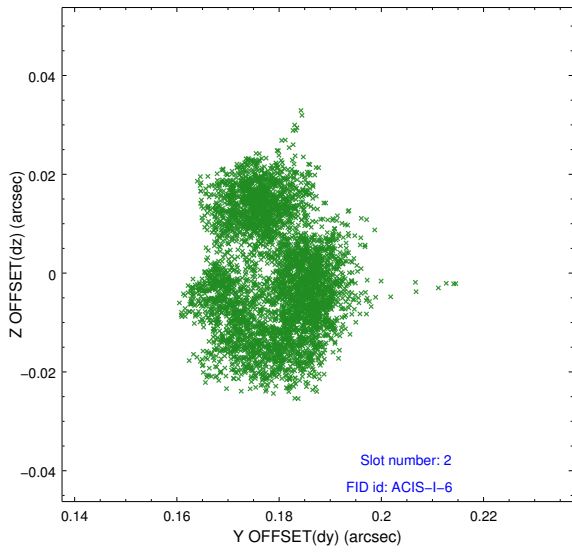
2.5.1 Slot 0



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)	2014.09.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.970487865448

A.2 Comments