

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17698 - L2 Version 1
Chandra X-Ray Center

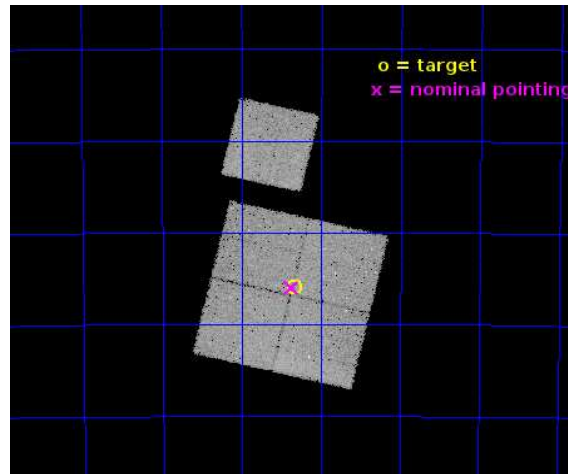
L2 Processing Date : Jul 17 2015

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1 Front

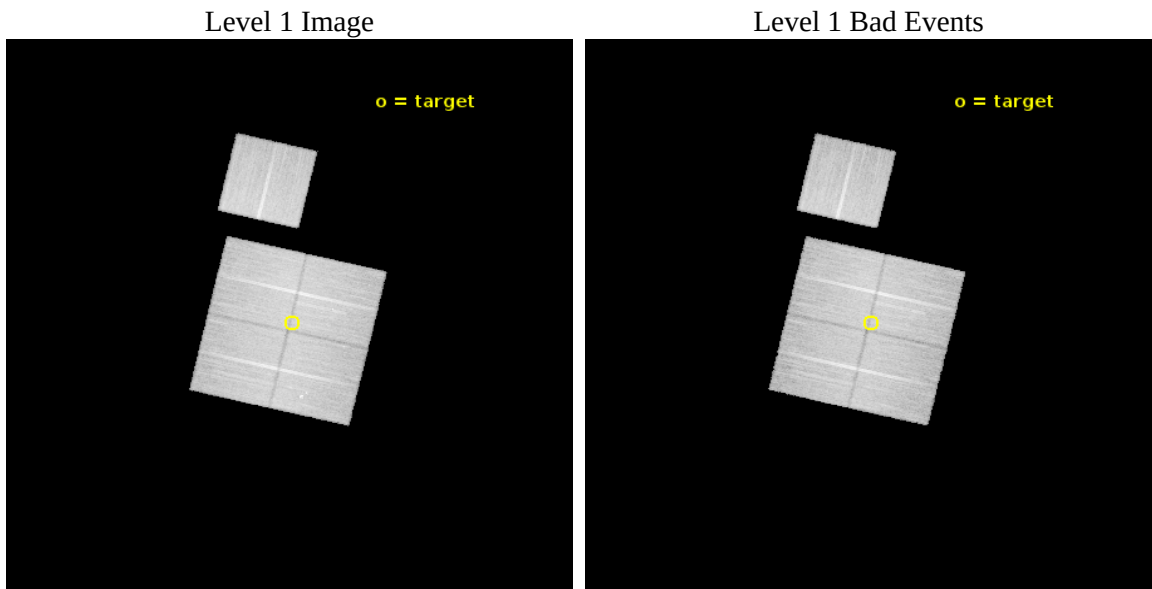
seq_num	801482	Sequence number
obs_id	17698	Observation id
title	THERMAL AND (OR?) RELATIVISTIC MATTER IN THE BRIGHTEST CLUSTER RADIO RELIC	Proposal title
observer	Dr Maxim Markevitch	Principal investigator
object	A3667_NWRELIC_1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	302.585417	Observer's specified target RA [deg]
dec_targ	-56.432778	Observer's specified target Dec [deg]
ra_nom	302.59397326794	Nominal RA [deg]
dec_nom	-56.433426469444	Nominal Dec [deg]
roll_nom	13.215827339628	Nominal Roll [deg]
revision	1	Processing version of data
ontime	41764.939681292	Sum of GTIs [s]
livetime	41219.249997454	Livetime [s]
ontime0	41767.957561612	Sum of GTIs [s]
ontime1	41764.857591152	Sum of GTIs [s]
ontime2	41758.616410613	Sum of GTIs [s]
ontime3	41764.939681292	Sum of GTIs [s]
ontime6	41771.057582021	Sum of GTIs [s]
l2events	112887	Number of level 2 events



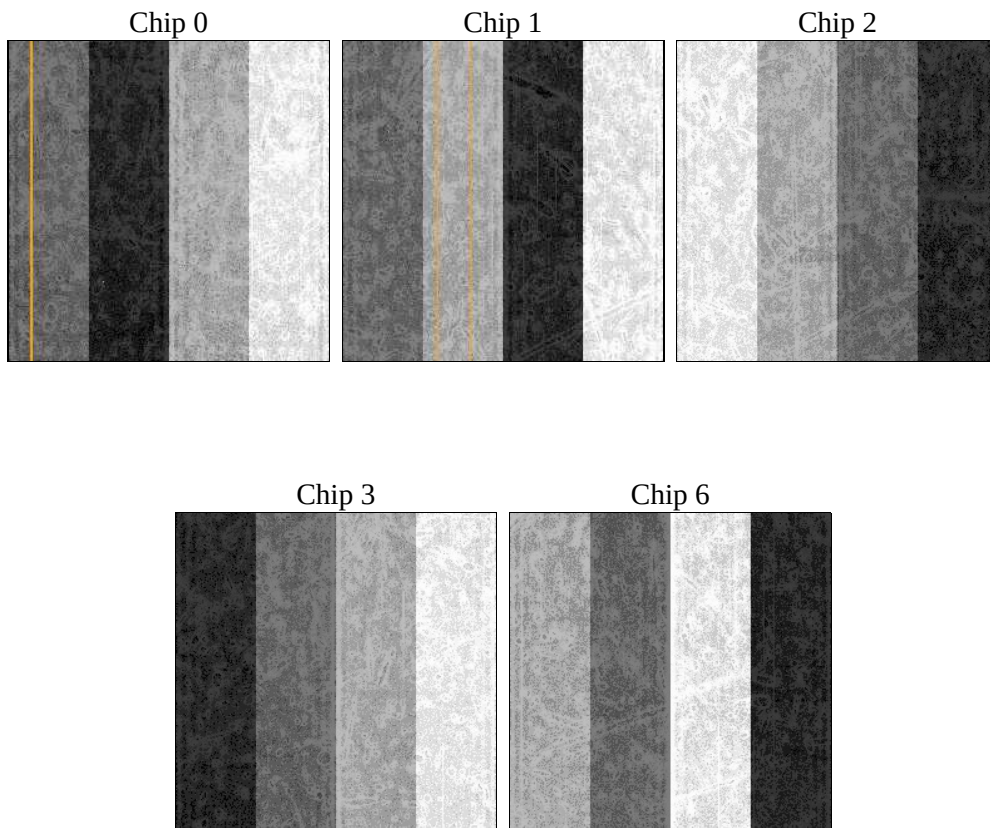
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	41764.939681292	Sum of GTIs [s]
caldsver	4.6.8	 	ontime0	41767.957561612	Sum of GTIs [s]
date	2015-07-17T22:35:53	Date and time of file creation	ontime1	41764.857591152	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	41758.616410613	Sum of GTIs [s]
			ontime3	41764.939681292	Sum of GTIs [s]
			ontime6	41771.057582021	Sum of GTIs [s]
			l1events	1036711	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	198141	200547	215883	209197	212943
rejected events	169334	170103	190859	185292	187298
rejected %	85%	84%	88%	88%	87%

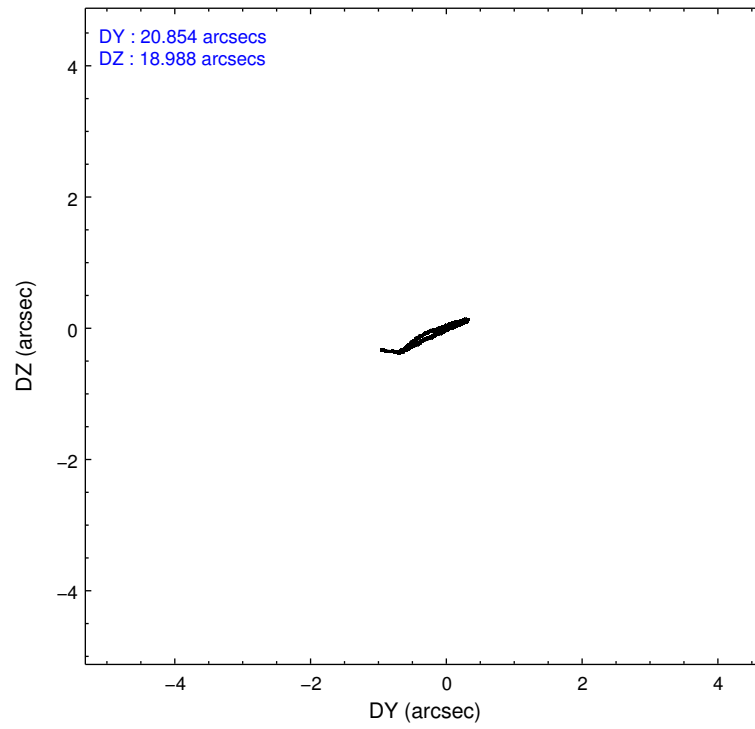
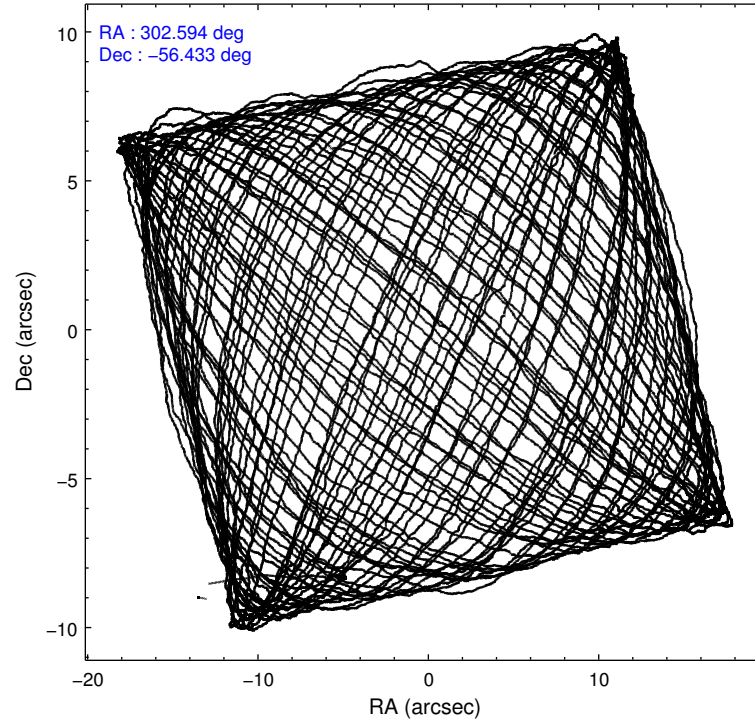
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11643	12310	9020	8581	8776
	5%	6%	4%	4%	4%
grade 1 events	123	97	129	126	111
	0%	0%	0%	0%	0%
grade 2 events	6620	6814	6157	5277	5678
	3%	3%	2%	2%	2%
grade 3 events	2777	2640	2421	2537	2628
	1%	1%	1%	1%	1%
grade 4 events	2423	2683	2505	2517	2642
	1%	1%	1%	1%	1%
grade 5 events	9637	10442	9237	11029	10770
	4%	5%	4%	5%	5%
grade 6 events	5351	6005	4922	4996	5927
	2%	2%	2%	2%	2%
grade 7 events	159567	159556	181492	174134	176411
	80%	79%	84%	83%	82%

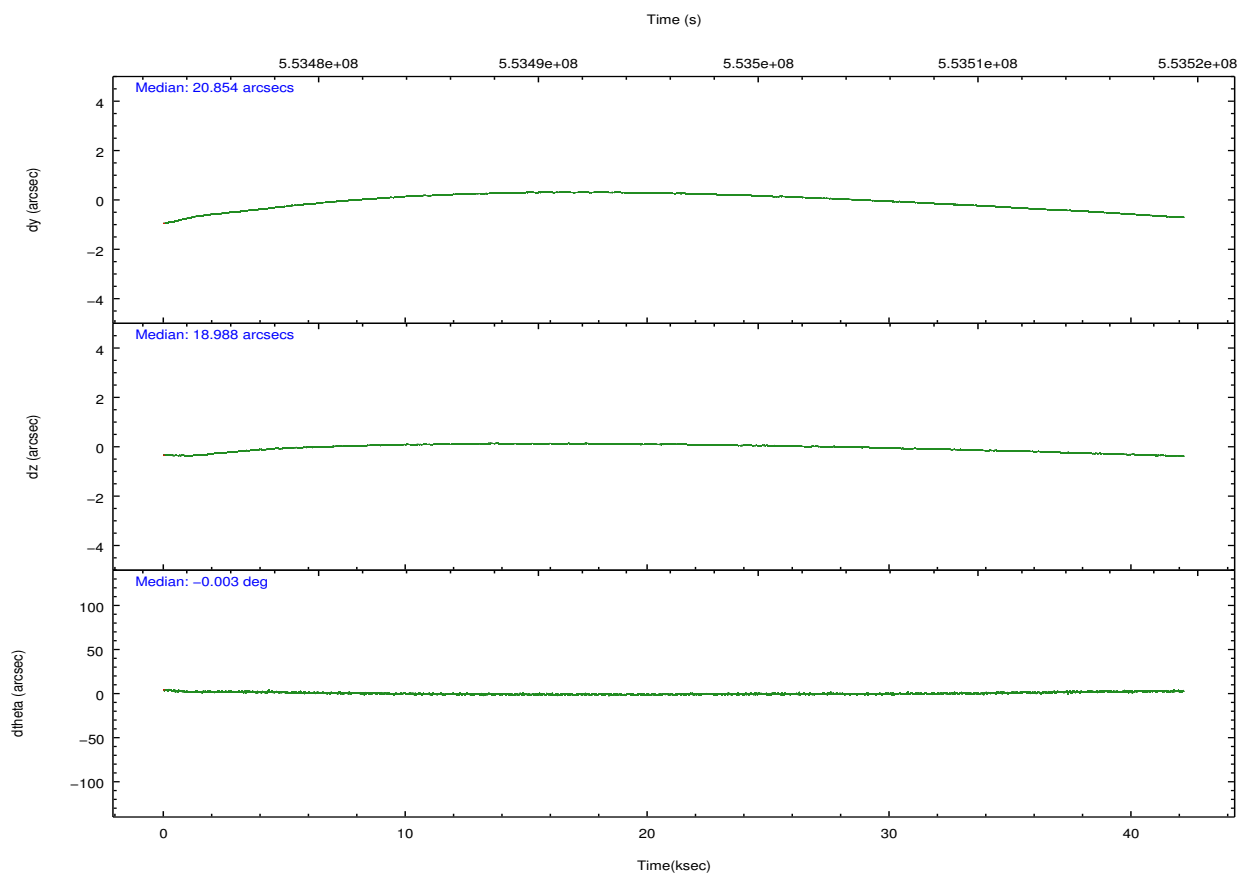
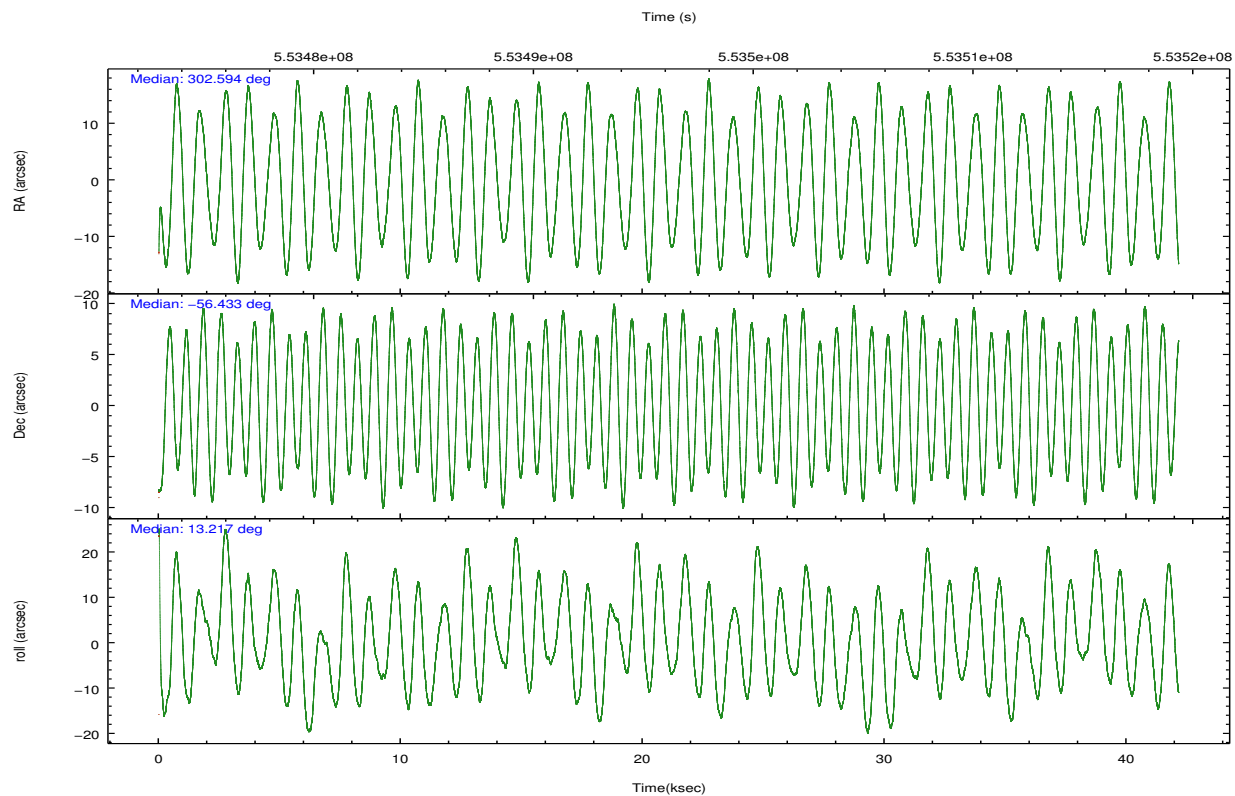
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	302.557714	302.5939732679411
[deg] Pointing Dec	-56.452392	-56.43342646944396
[deg] Pointing Roll	12.976910	13.21582733962846
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	553475255.184000	553474357.1052099
Observation start date	2015-07-16T23:06:27	2015-07-16T22:52:37
[s] Observation end time (MET)	553517255.184000	553518162.02018
Observation end date	2015-07-17T10:46:27	2015-07-17T11:02:42
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
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	3.1

2.3 Aspect



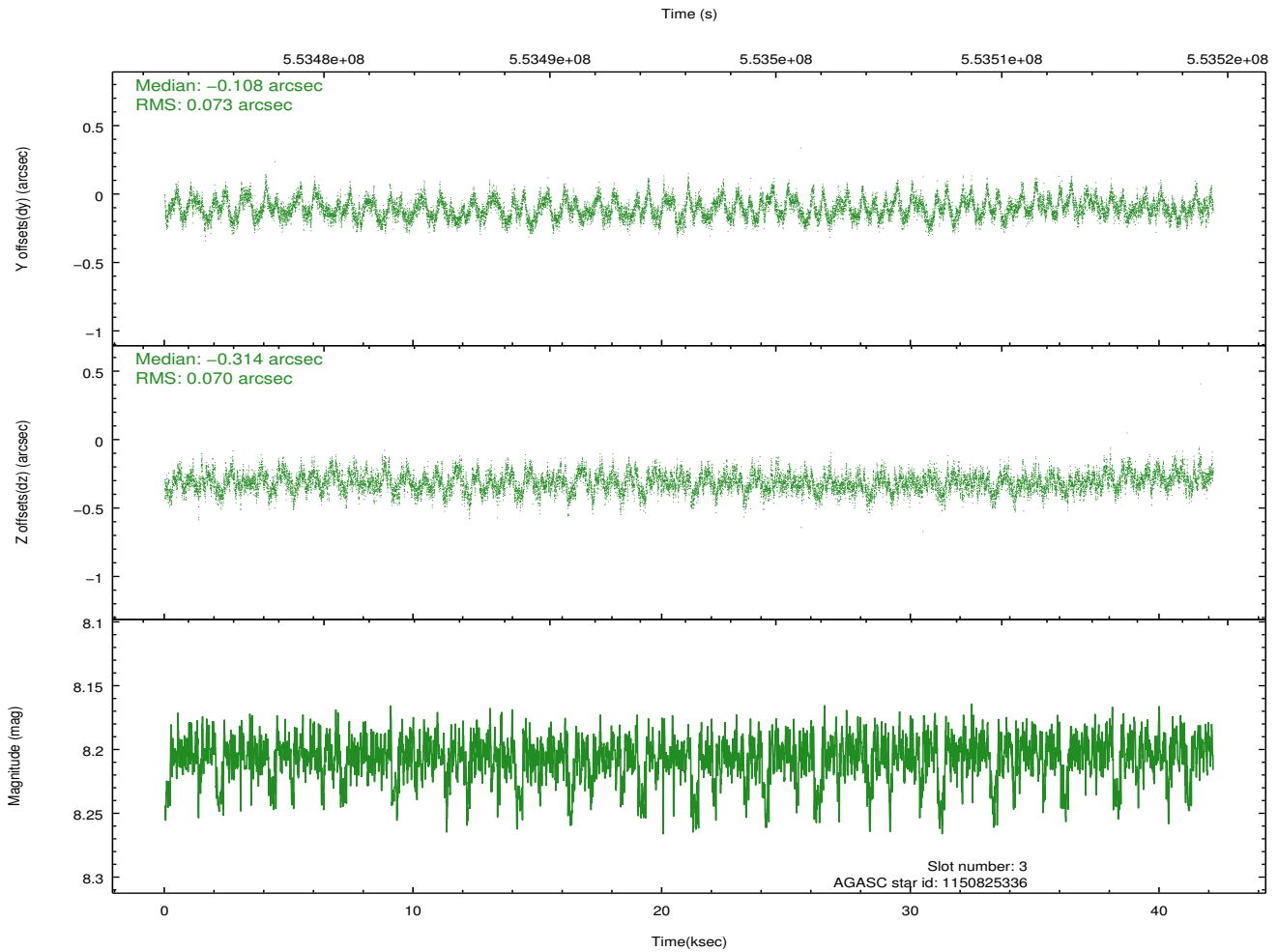
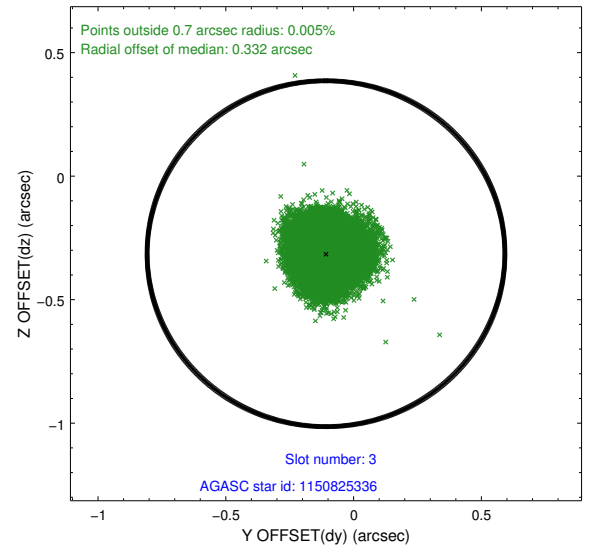
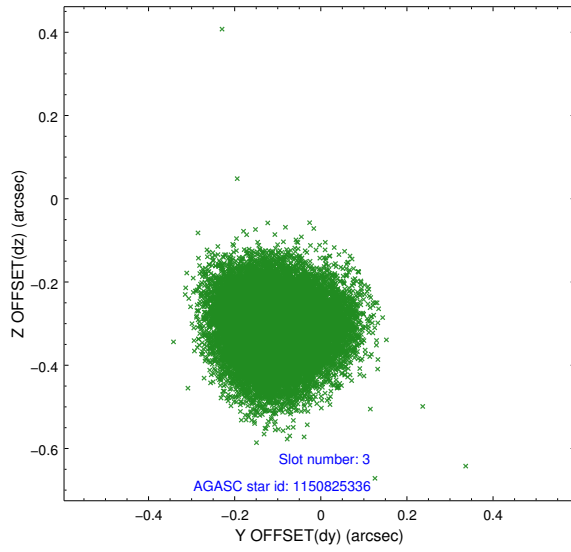


Slot Statistics

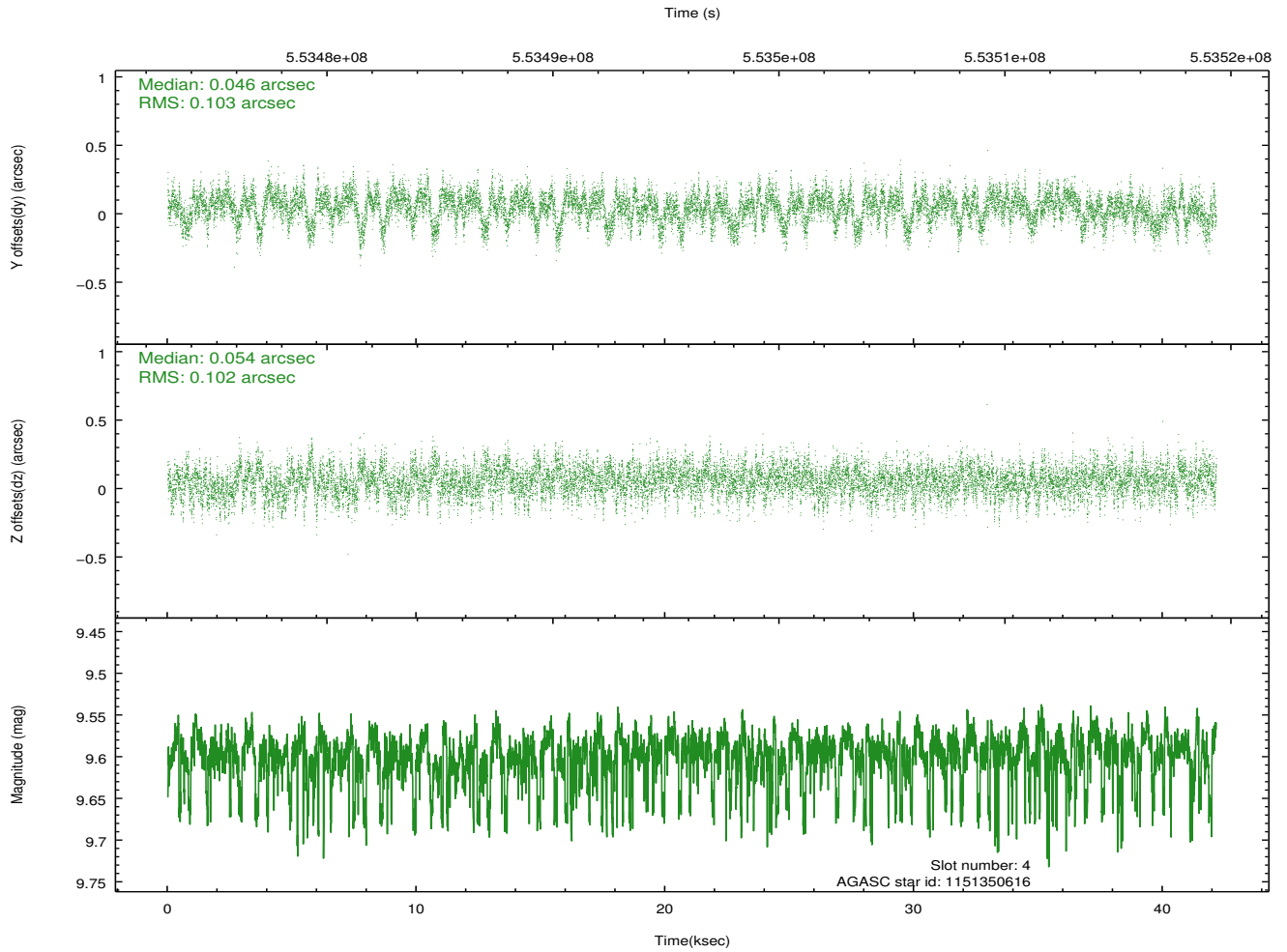
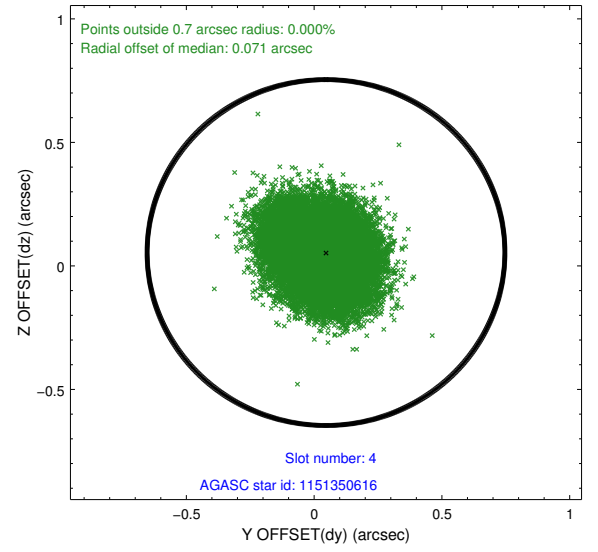
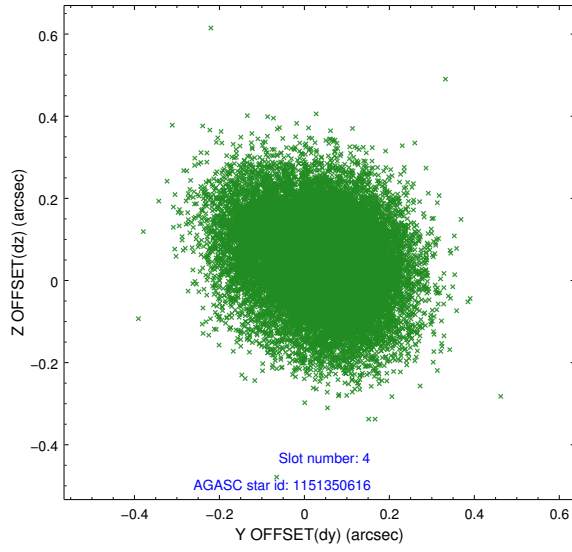
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.01	10280	-0.000	-0.062	0.010	0.020	0.000000	0.000000	-775.64	-849.07
1	FID		ACIS-I-5	7.12	10281	-0.285	0.033	0.009	0.015	0.000000	0.000000	-1830.04	1054.86
2	FID		ACIS-I-6	7.11	10282	0.191	0.098	0.006	0.011	0.000000	0.000000	384.23	1699.46
3	GUIDE	used	1150825336	8.21	20558	-0.108	-0.314	0.110	0.171	302.225772	-56.061074	-333.93	1520.90
4	GUIDE	used	1151350616	9.60	20549	0.046	0.054	0.154	0.252	301.990140	-56.664449	-1266.28	-496.12
5	GUIDE	used	1151351024	10.08	20190	0.304	0.192	0.322	0.521	301.672121	-57.175517	-2268.98	-2160.17
6	GUIDE	used	1151478088	9.98	20347	-0.124	0.116	0.318	0.489	303.724049	-56.698649	2044.58	-1402.97
7	GUIDE	used	1151467856	9.63	20541	-0.115	-0.091	0.204	0.341	303.931677	-56.775960	2373.59	-1770.15

2.4 Star Slots

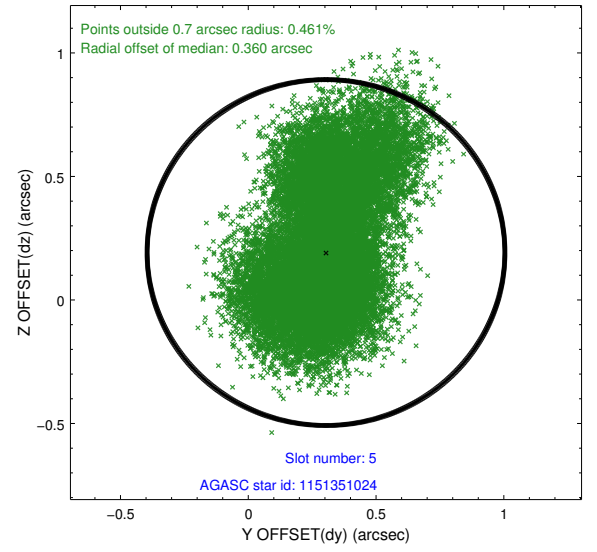
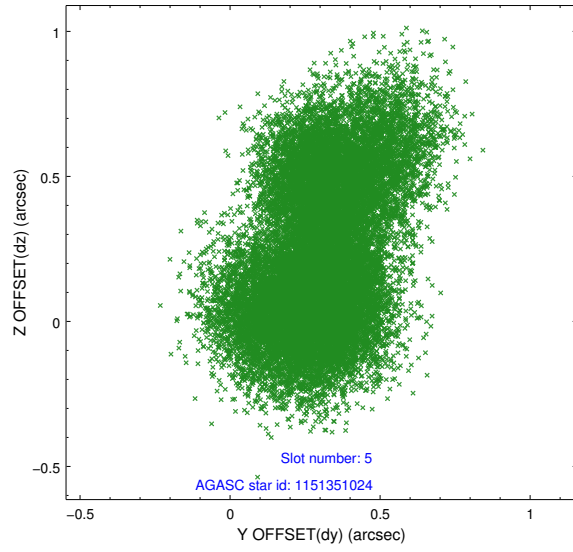
2.4.1 Slot 3



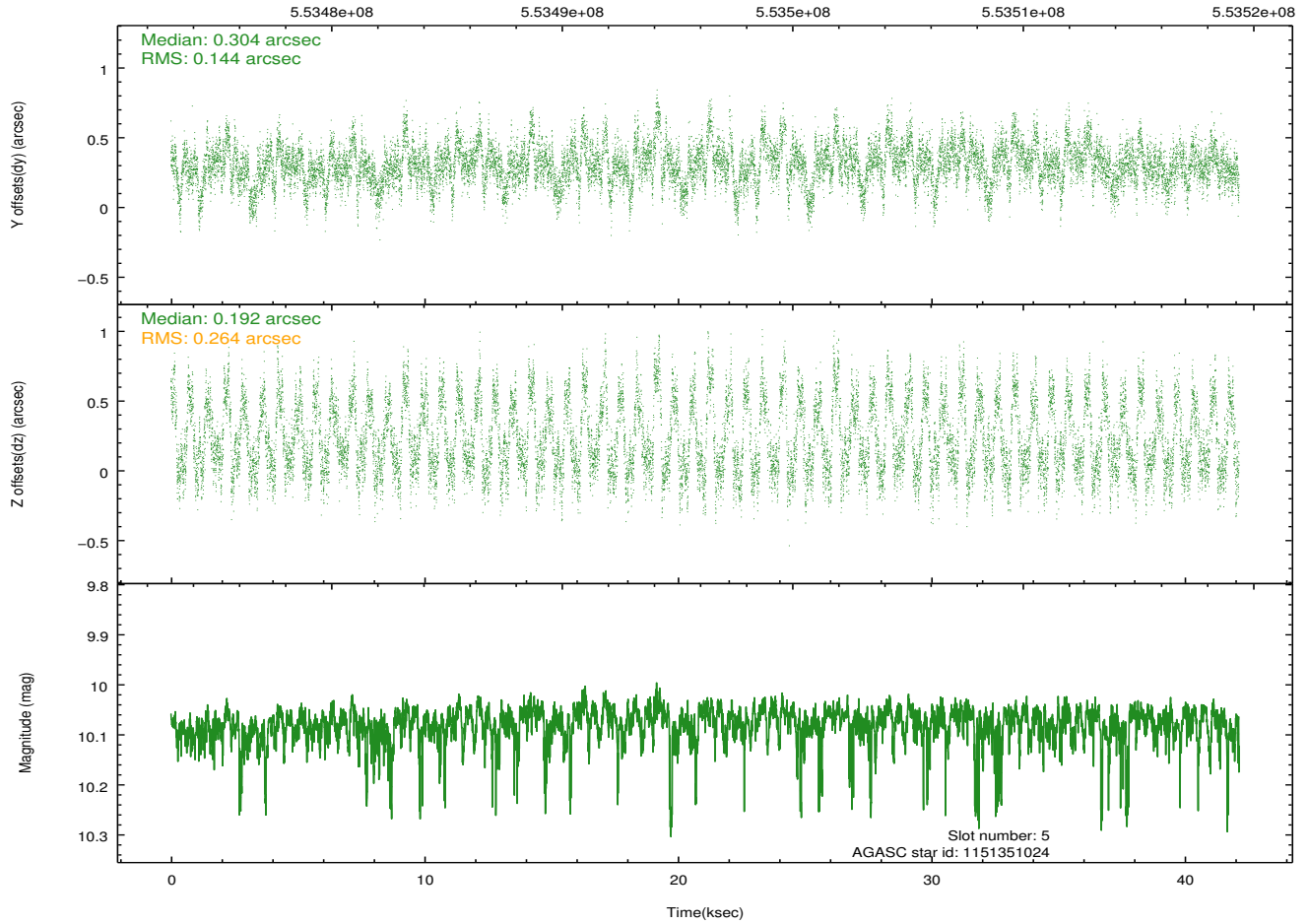
2.4.2 Slot 4



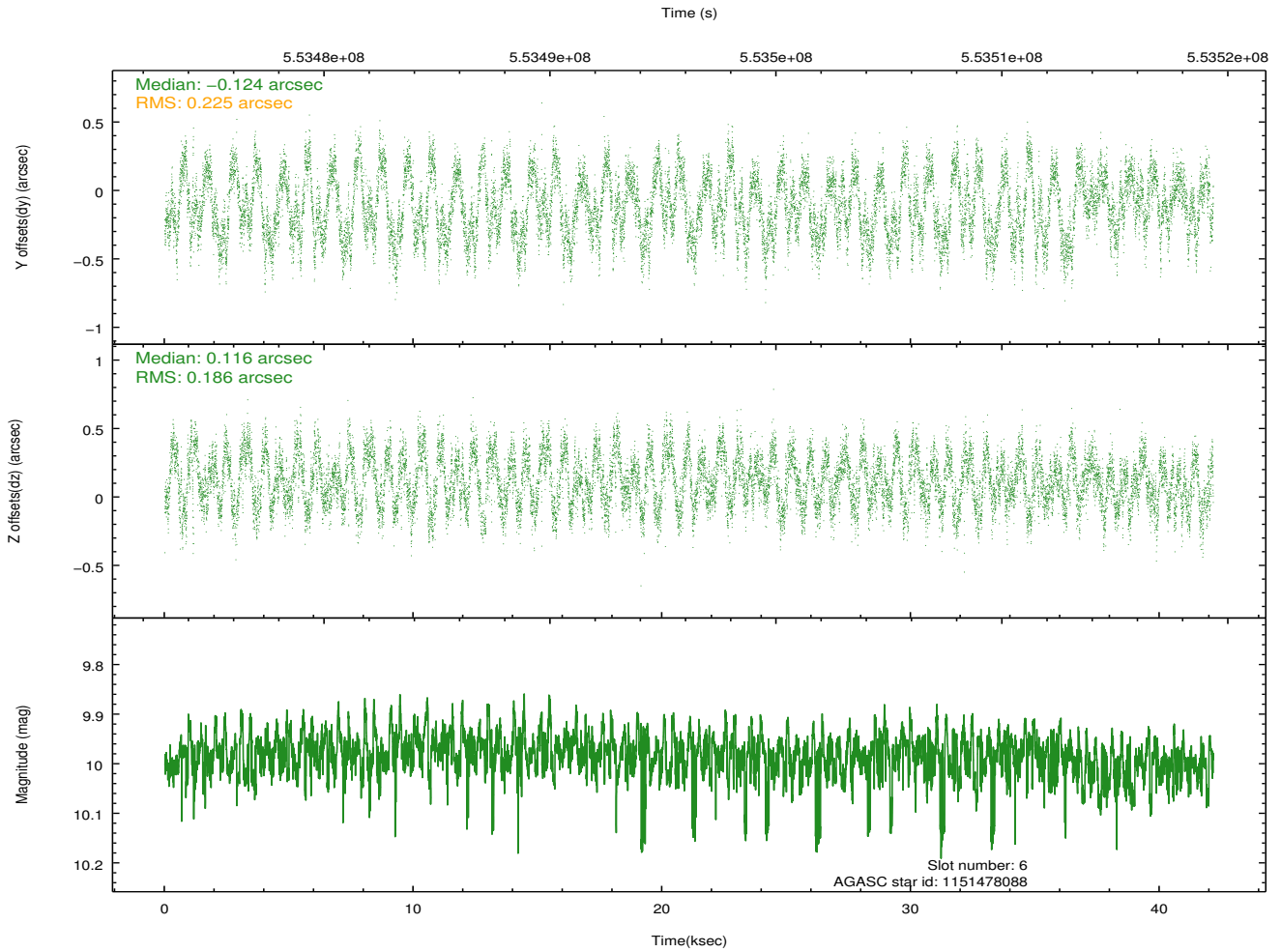
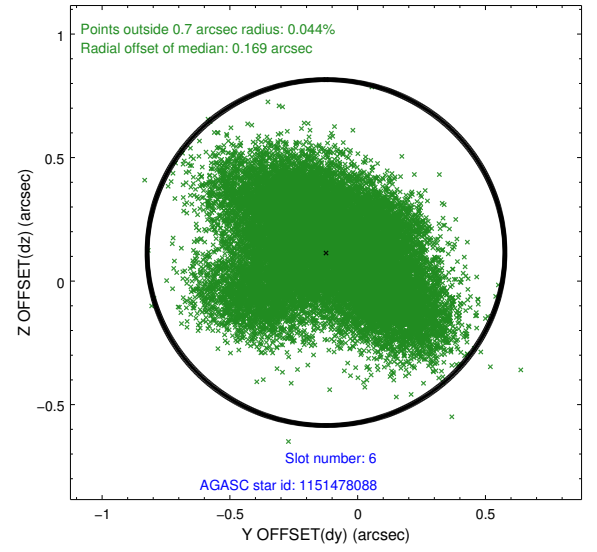
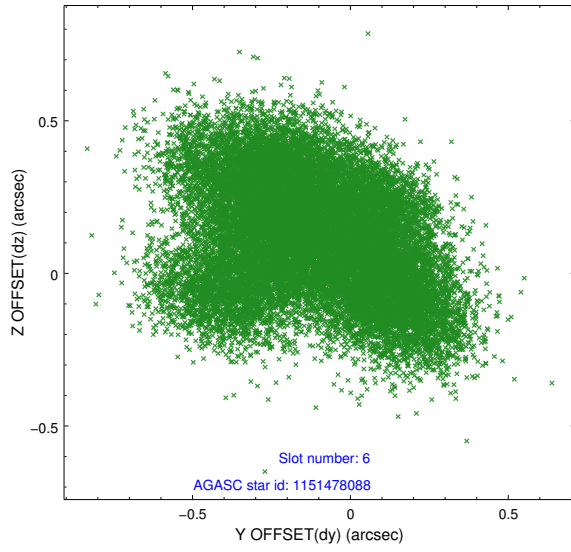
2.4.3 Slot 5



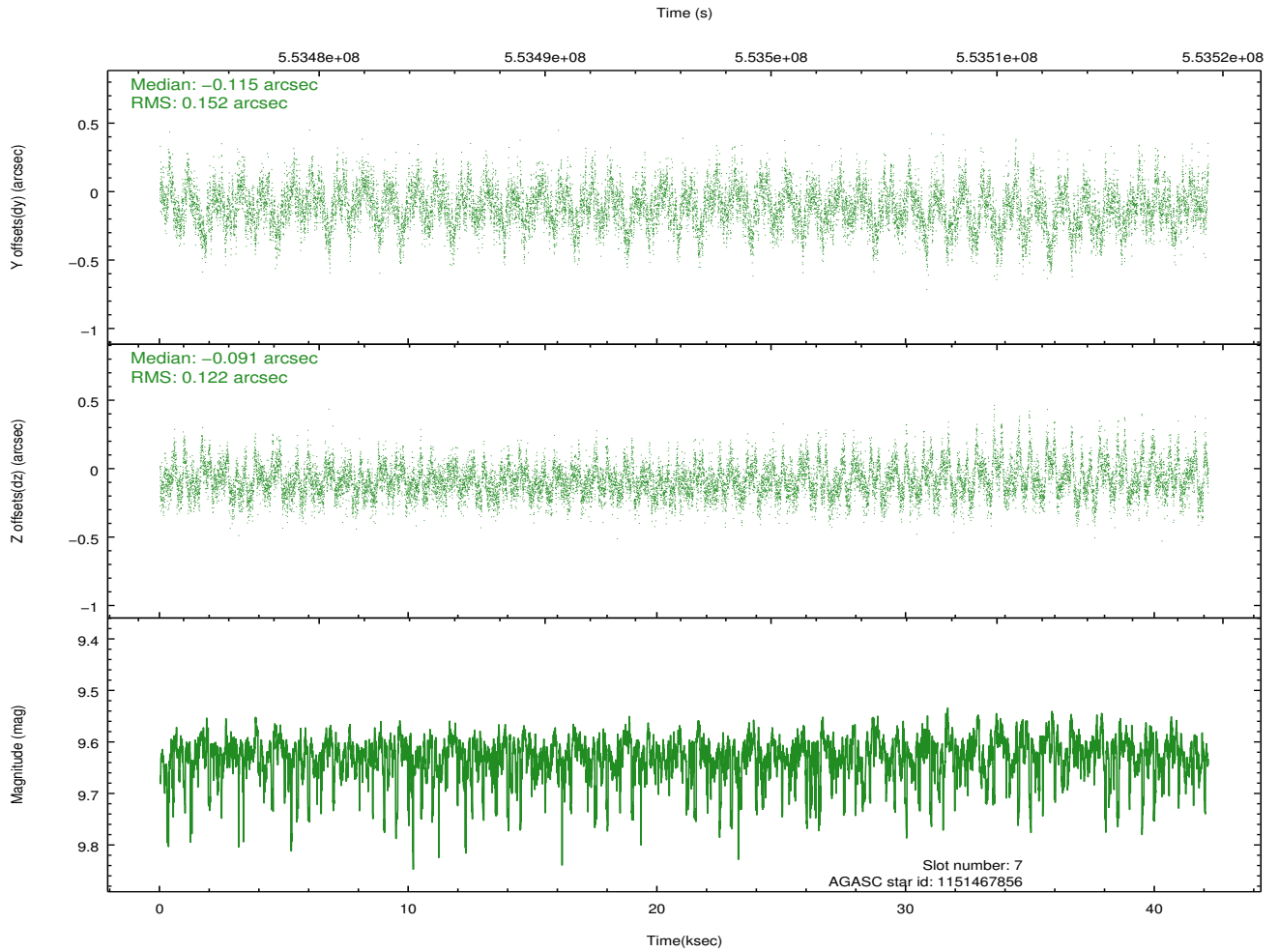
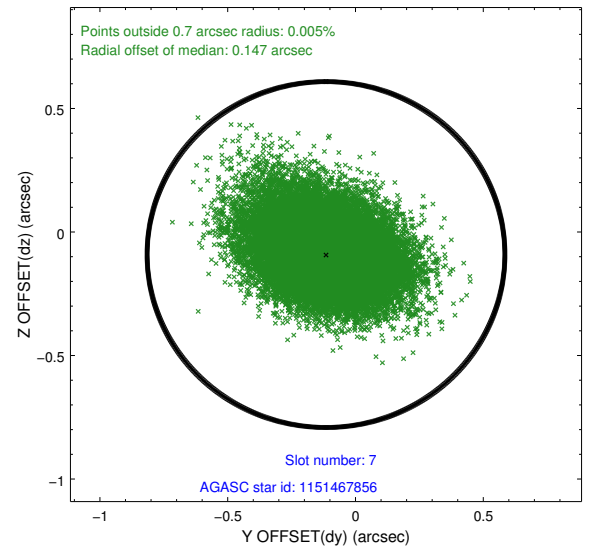
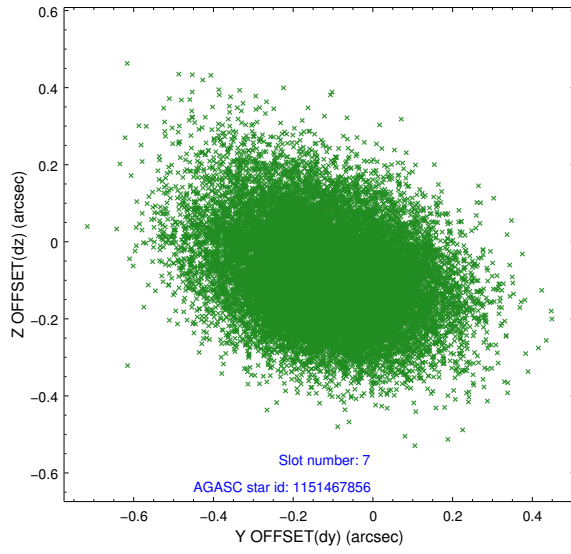
Time (s)



2.4.4 Slot 6

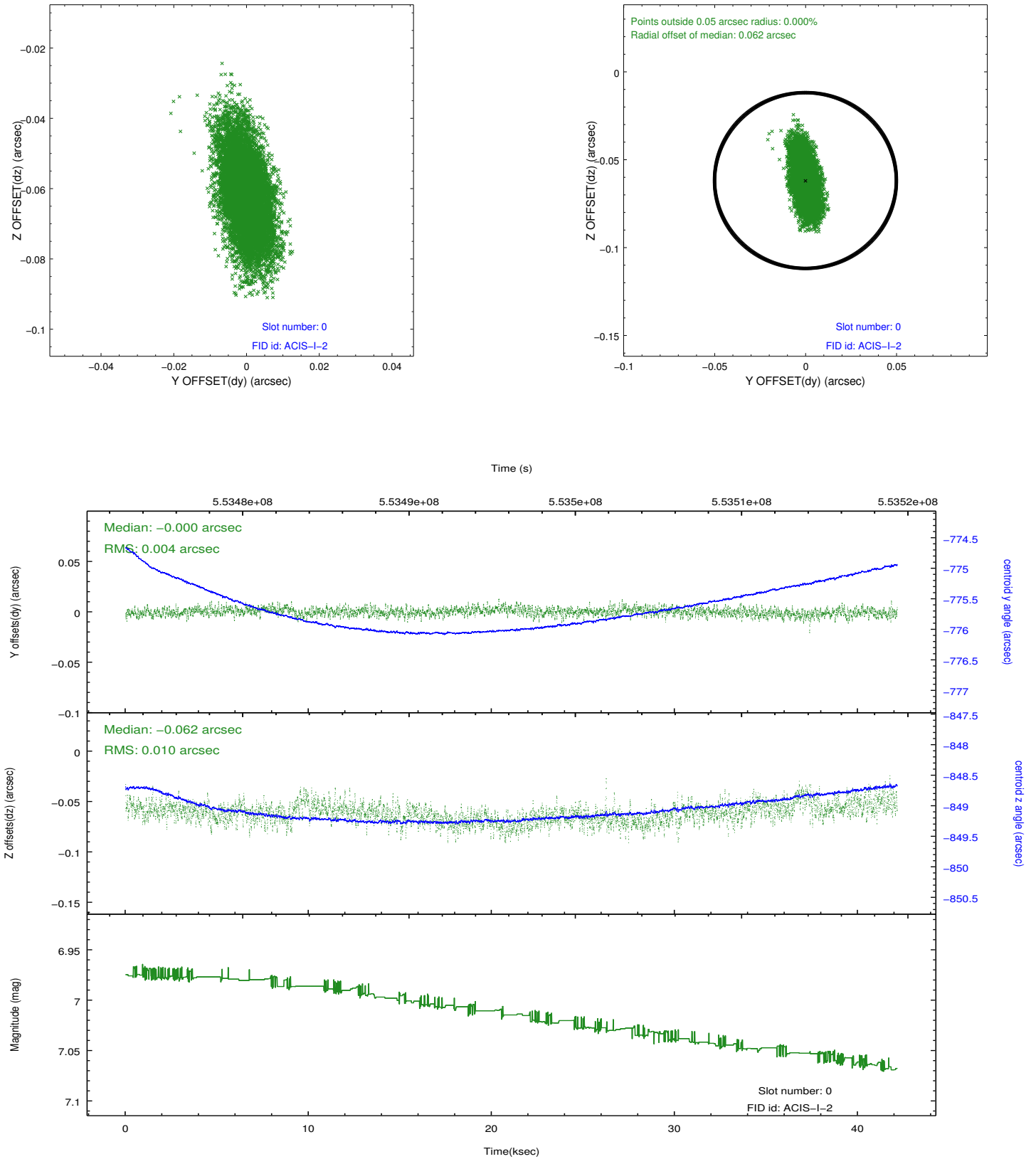


2.4.5 Slot 7

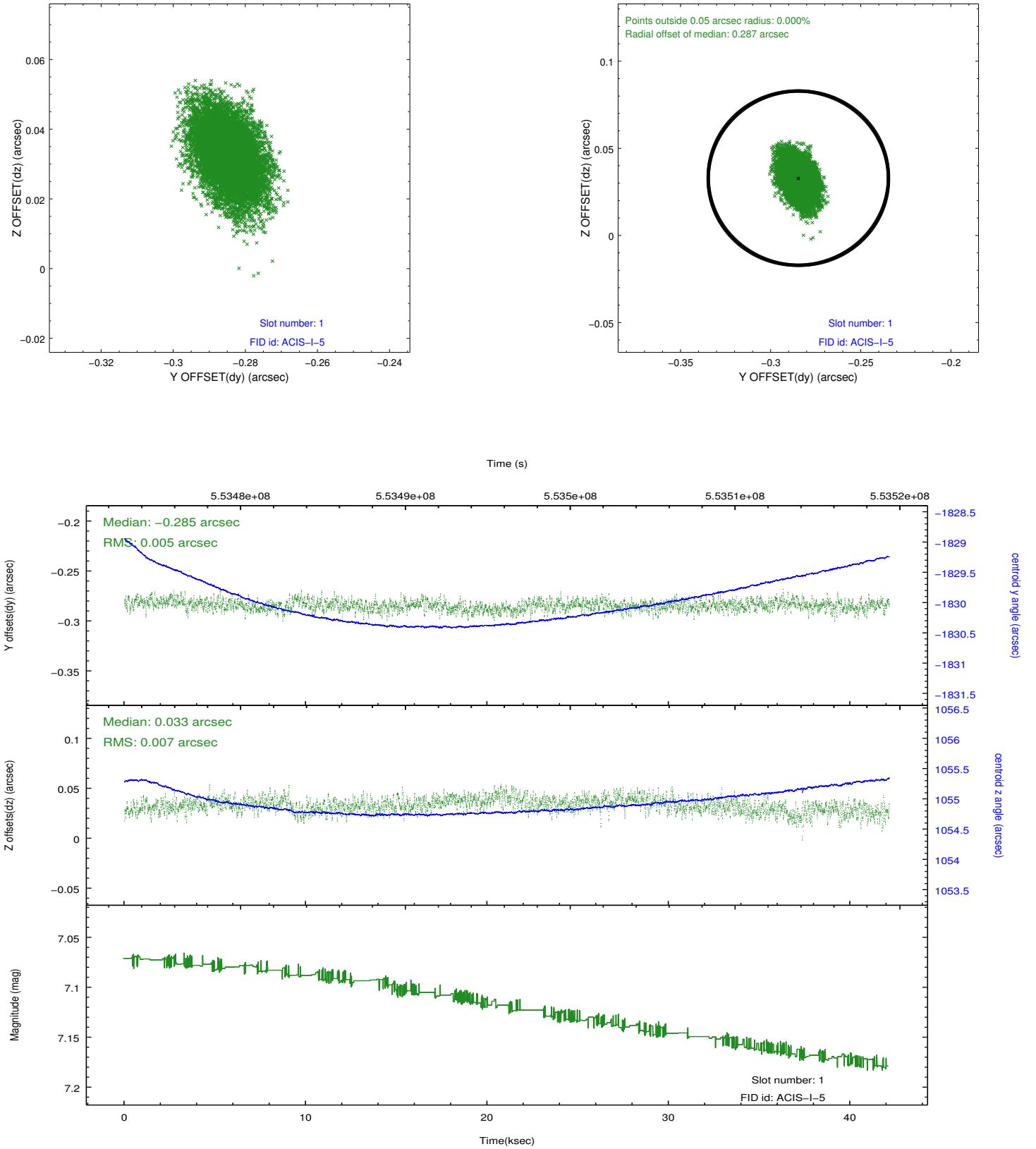


2.5 FID Slots

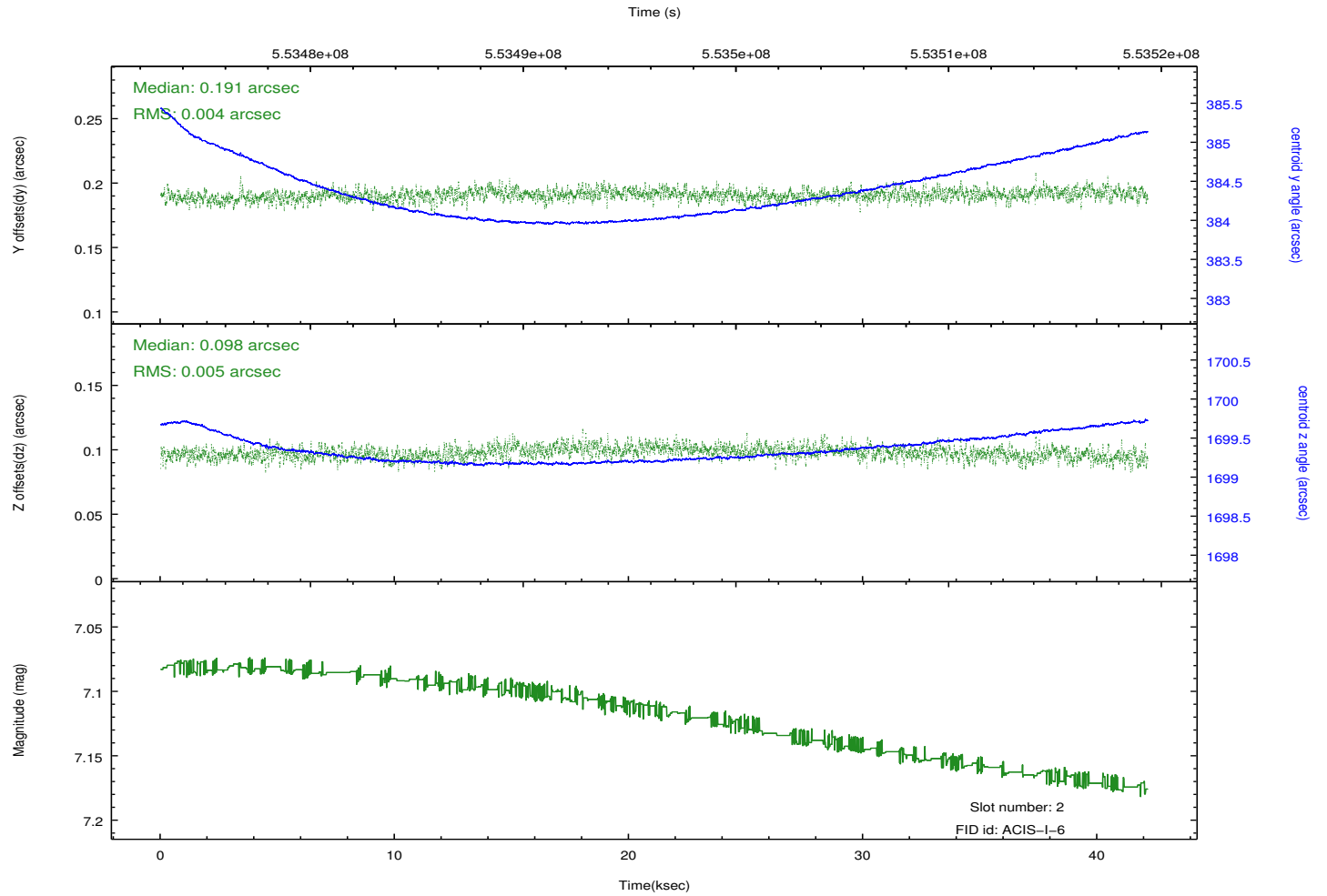
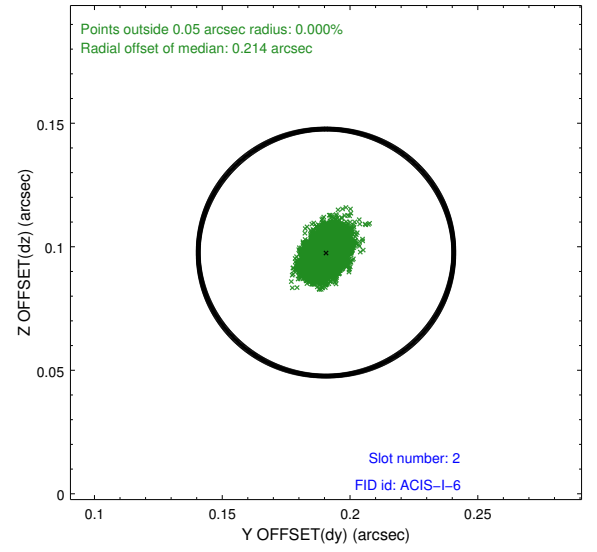
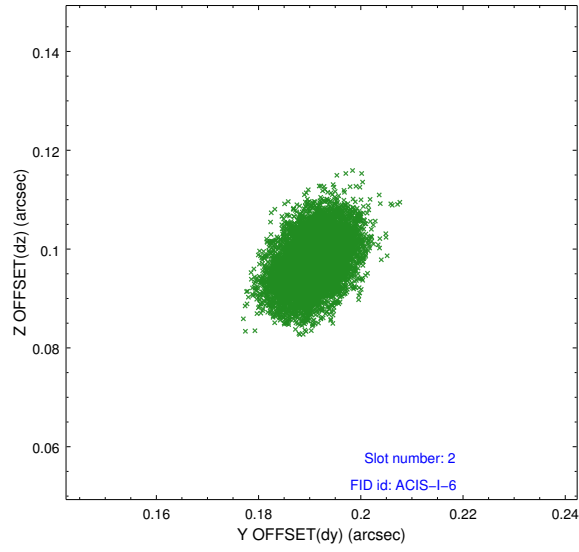
2.5.1 Slot 0



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)	2015.07.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.764939681292

A.2 Comments