

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17568 - L2 Version 1
Chandra X-Ray Center

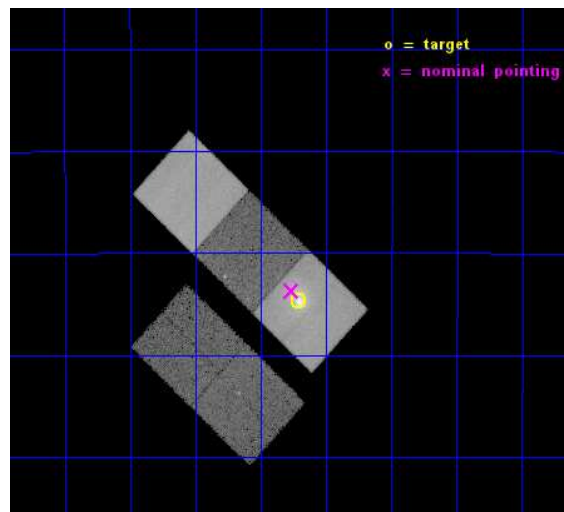
L2 Processing Date : Mar 10 2015

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1 Front

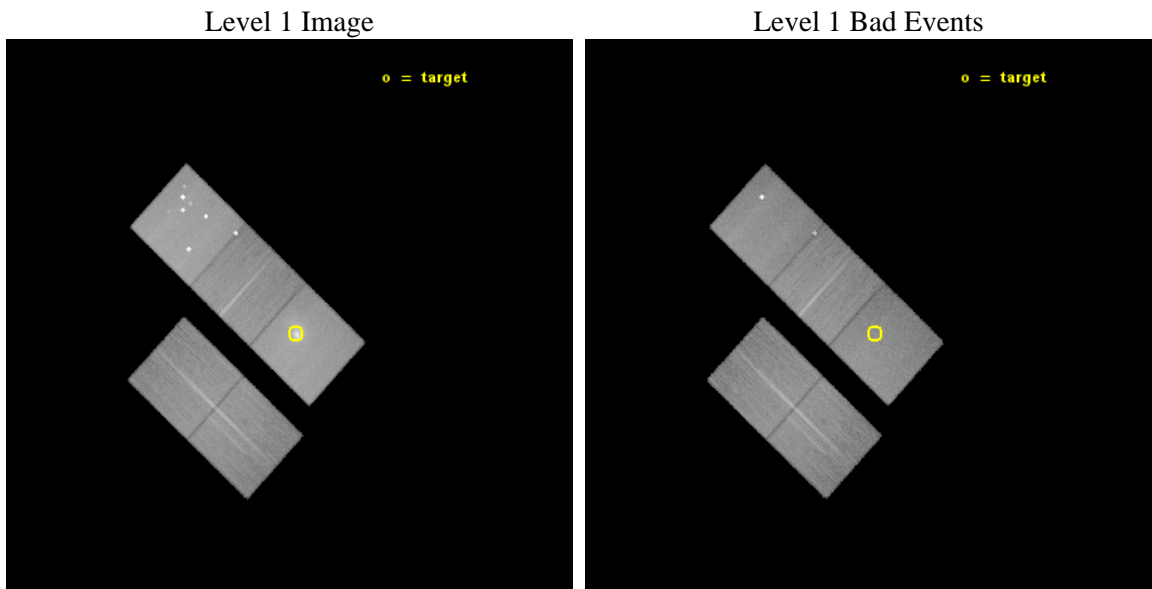
seq_num	801457	Sequence number
obs_id	17568	Observation id
title	The origin of the massive cold gas flows in the galaxy cluster A1664	
observer	Dr Helen Russell	Principal investigator
object	Abell 1664	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.9275	Observer's specified target RA [deg]
dec_targ	-24.245056	Observer's specified target Dec [deg]
ra_nom	195.94168287683	Nominal RA [deg]
dec_nom	-24.228303679097	Nominal Dec [deg]
roll_nom	43.162442159749	Nominal Roll [deg]
revision	1	Processing version of data
ontime	46806.400804281	Sum of GTIs [s]
livetime	46194.840719402	Livetime [s]
ontime2	46806.236644268	Sum of GTIs [s]
ontime3	46803.136614084	Sum of GTIs [s]
ontime5	46806.359764338	Sum of GTIs [s]
ontime6	46806.318724275	Sum of GTIs [s]
ontime7	46806.400804281	Sum of GTIs [s]
l2events	429796	Number of level 2 events



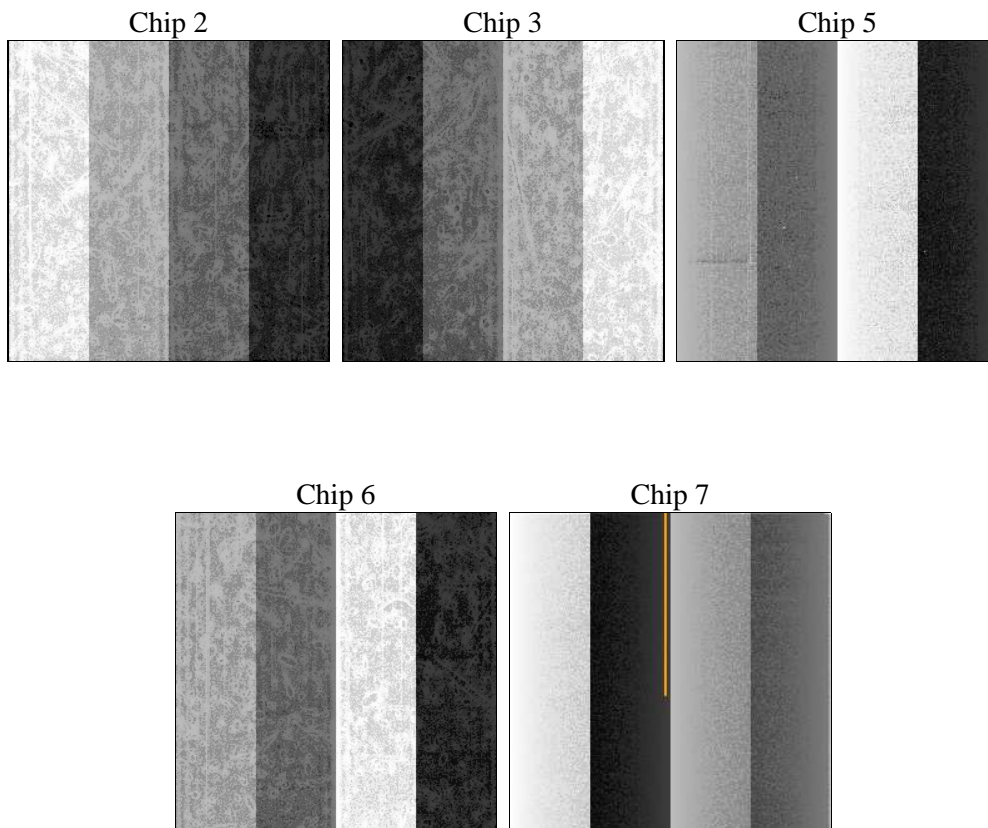
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	46745.868000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	46806.400804281	Sum of GTIs [s]
caldbver	4.6.7	 	ontime2	46806.236644268	Sum of GTIs [s]
date	2015-03-11T00:21:38	Date and time of file creation	ontime3	46803.136614084	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	46806.359764338	Sum of GTIs [s]
			ontime6	46806.318724275	Sum of GTIs [s]
			ontime7	46806.400804281	Sum of GTIs [s]
			l1events	1530995	Number of level 1 events

2.1.4 Events

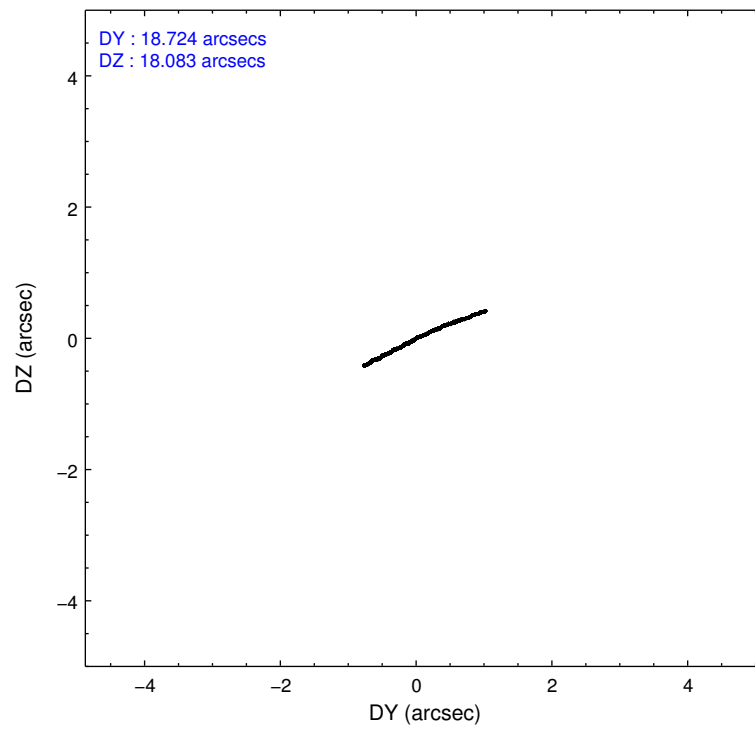
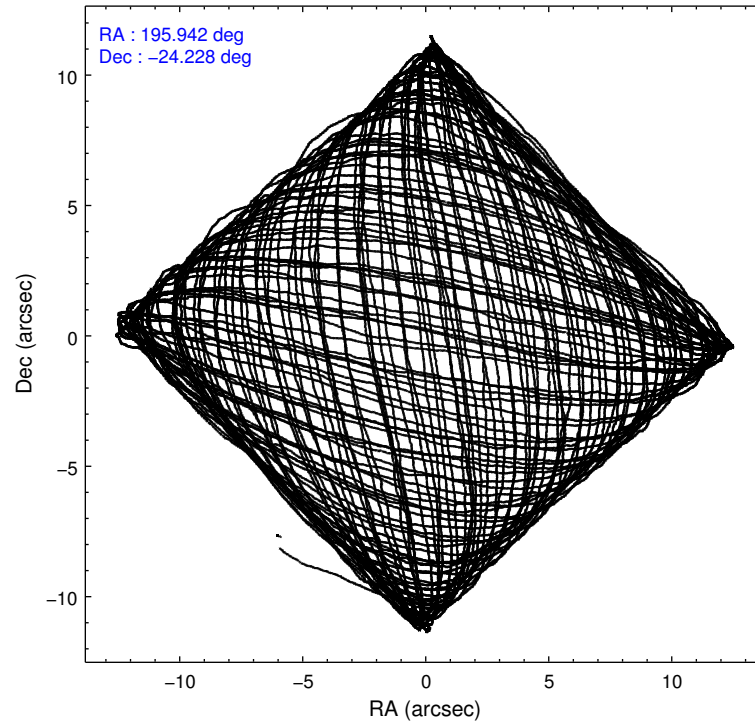
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	233593	226925	446850	246468	377159
rejected events	208727	201837	216918	216947	183008
rejected %	89%	88%	48%	88%	48%

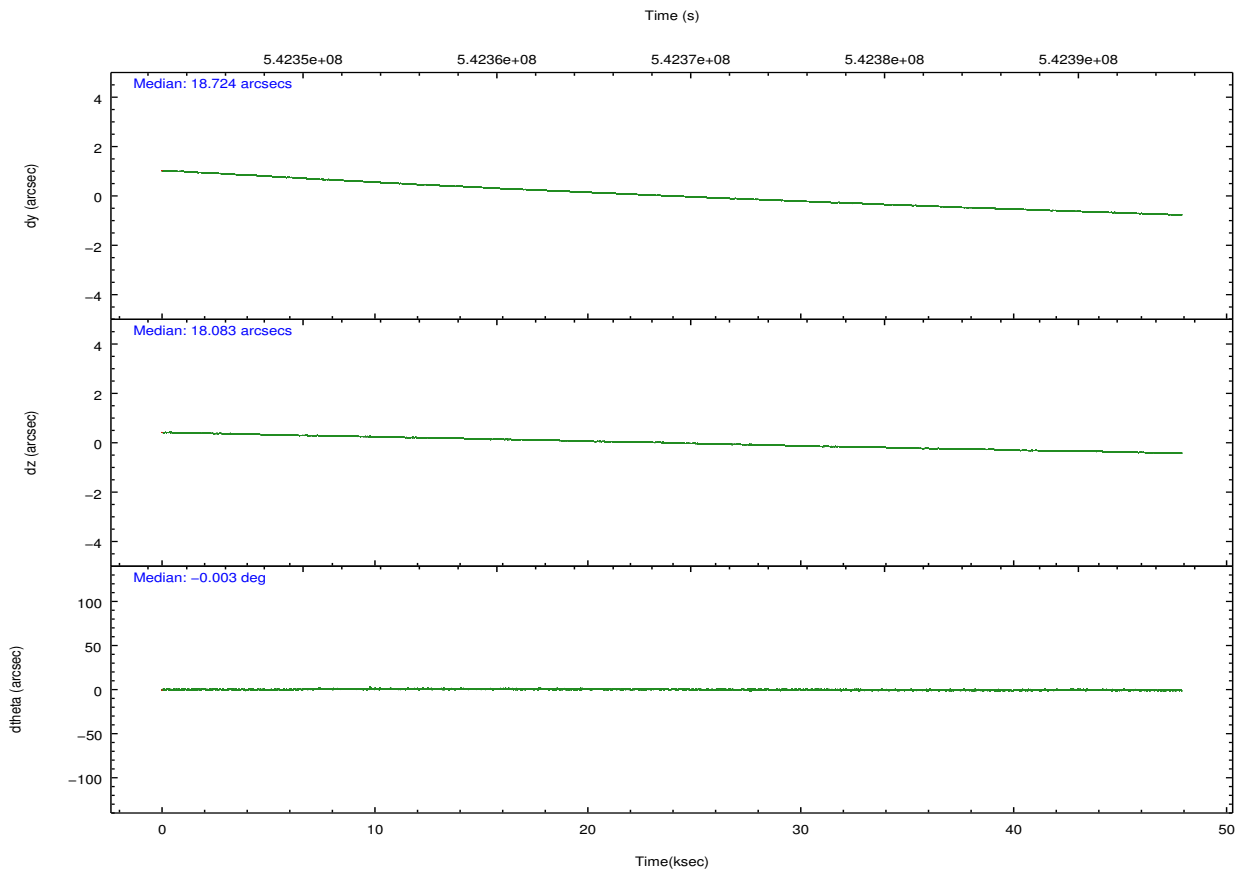
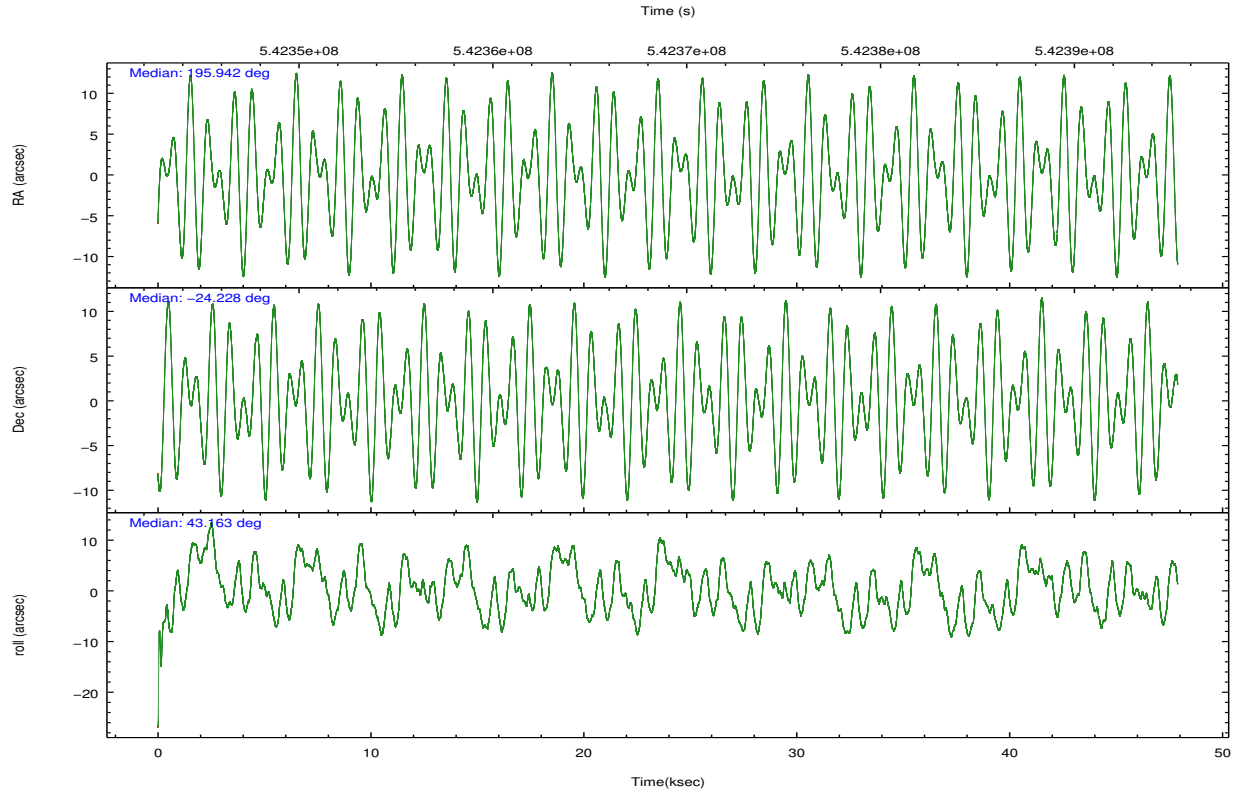
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	8617	8883	55399	10546	27927
	3%	3%	12%	4%	7%
grade 1 events	114	117	1591	101	394
	0%	0%	0%	0%	0%
grade 2 events	5874	5231	57642	6810	44402
	2%	2%	12%	2%	11%
grade 3 events	2574	2753	6954	2649	17294
	1%	1%	1%	1%	4%
grade 4 events	2617	2833	7639	2707	17030
	1%	1%	1%	1%	4%
grade 5 events	9579	11704	26596	11381	31020
	4%	5%	5%	4%	8%
grade 6 events	5186	5389	102339	6814	87519
	2%	2%	22%	2%	23%
grade 7 events	199032	190015	188690	205460	151573
	85%	83%	42%	83%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	195.933346	195.9416828768337	CCD I2 on	O1	Y
[deg] Pointing Dec	-24.254677	-24.22830367909673	CCD I3 on	O2	Y
[deg] Pointing Roll	43.002398	43.16244215974935	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	542346233.184000	542344814.74338	CCD S5 on	N	N
Observation start date	2015-03-10T03:42:46	2015-03-10T03:20:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	542392979.184000	542393203.97106	On-chip summing requested	N	N
Observation end date	2015-03-10T16:41:52	2015-03-10T16:46:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





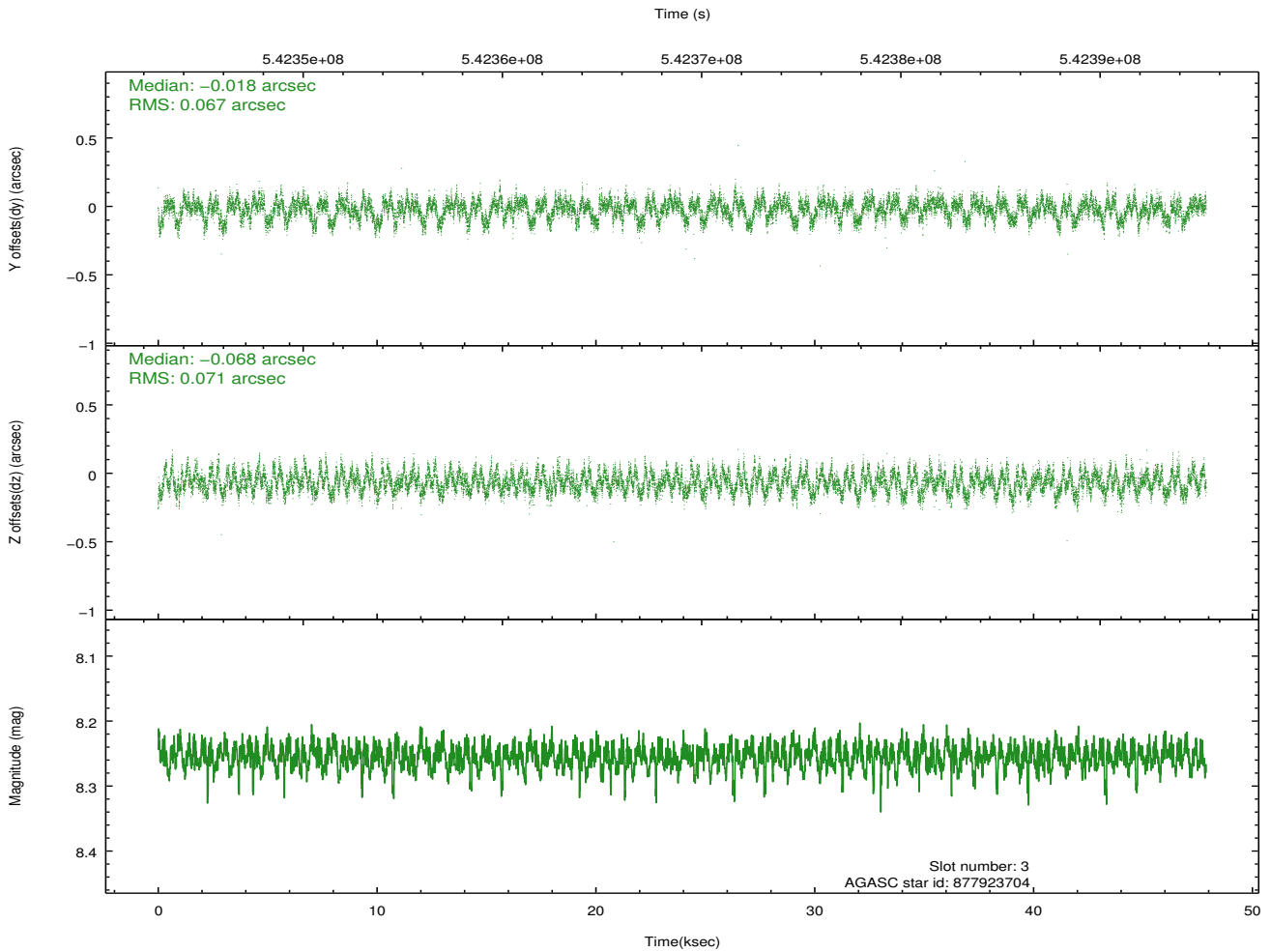
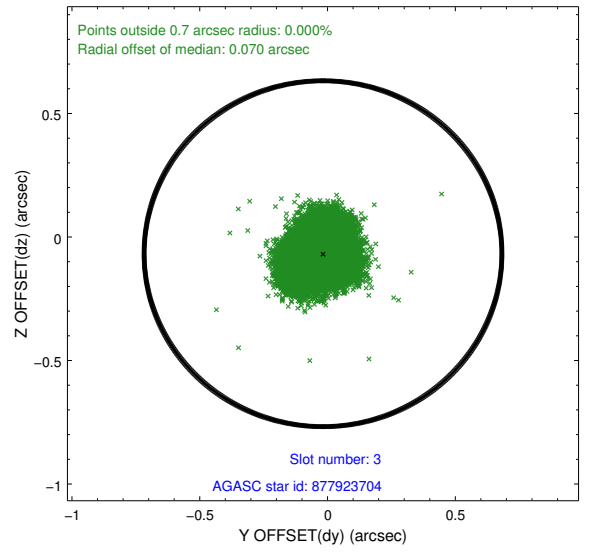
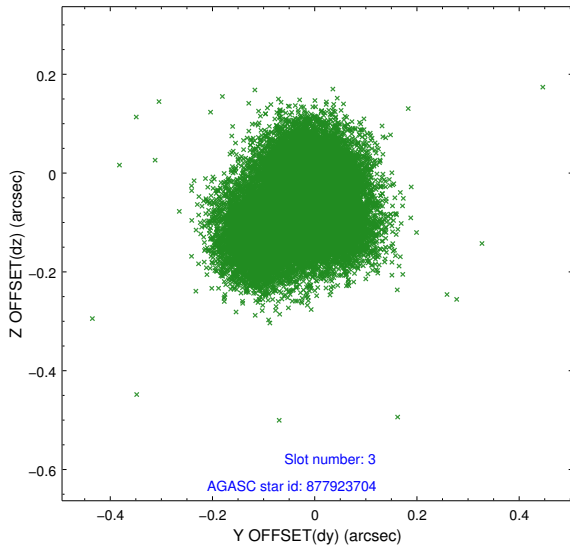
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	11683	-0.118	-0.105	0.021	0.035	0.000000	0.000000	-771.99	-1739.63
1	FID		ACIS-S-4	7.22	11682	0.372	0.085	0.020	0.028	0.000000	0.000000	2141.81	169.01
2	FID		ACIS-S-5	7.23	11682	-0.280	0.028	0.010	0.024	0.000000	0.000000	-1824.97	162.67
3	GUIDE	used	877923704	8.25	23355	-0.018	-0.068	0.106	0.165	195.777573	-24.149712	-116.47	624.71
4	GUIDE	used	877927728	9.67	23300	-0.210	-0.262	0.153	0.252	195.960480	-23.522727	1862.43	1865.89
5	GUIDE	used	877929496	9.57	23336	0.105	-0.220	0.155	0.250	195.067784	-24.273572	-2129.77	1881.26
6	GUIDE	used	878444816	7.15	23364	0.009	0.249	0.116	0.176	195.982981	-24.517217	-525.68	-801.14
7	GUIDE	used	878445112	9.35	23335	0.116	0.298	0.116	0.190	195.967344	-24.500475	-521.40	-722.85

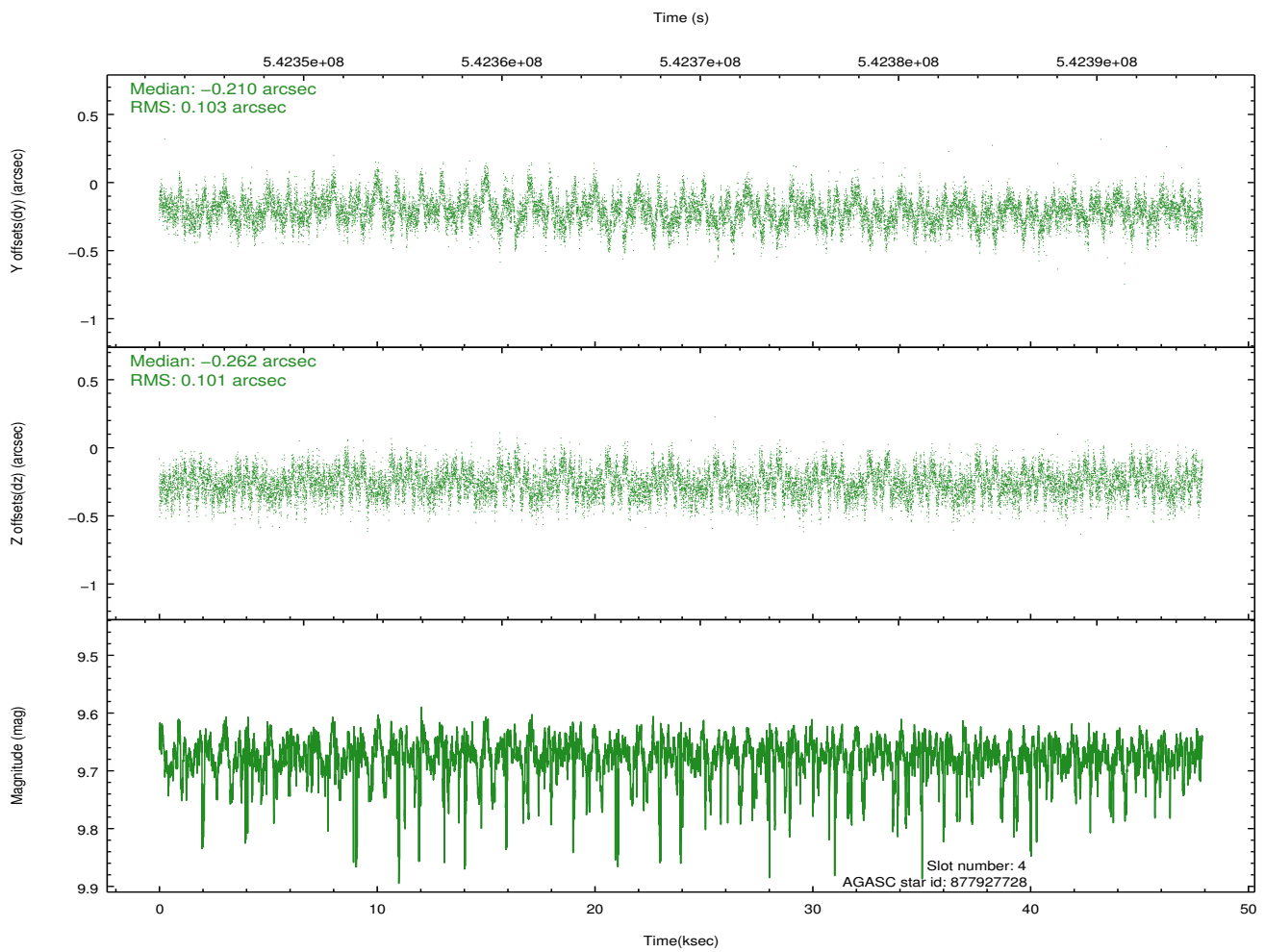
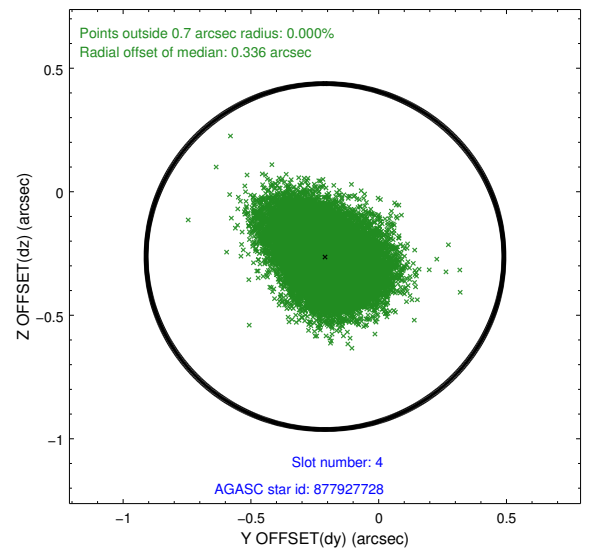
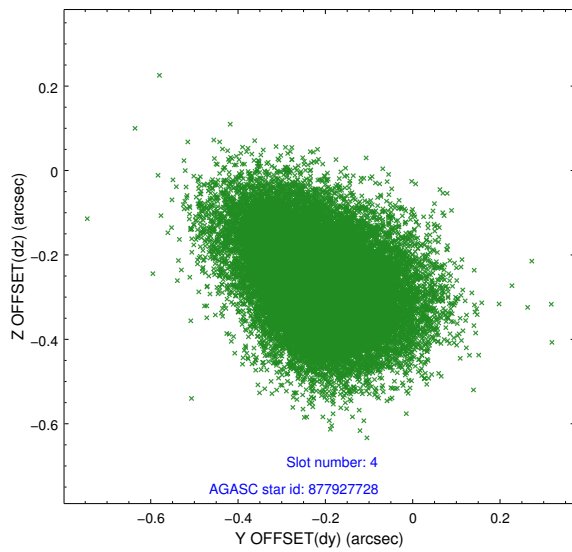
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2.4 Star Slots

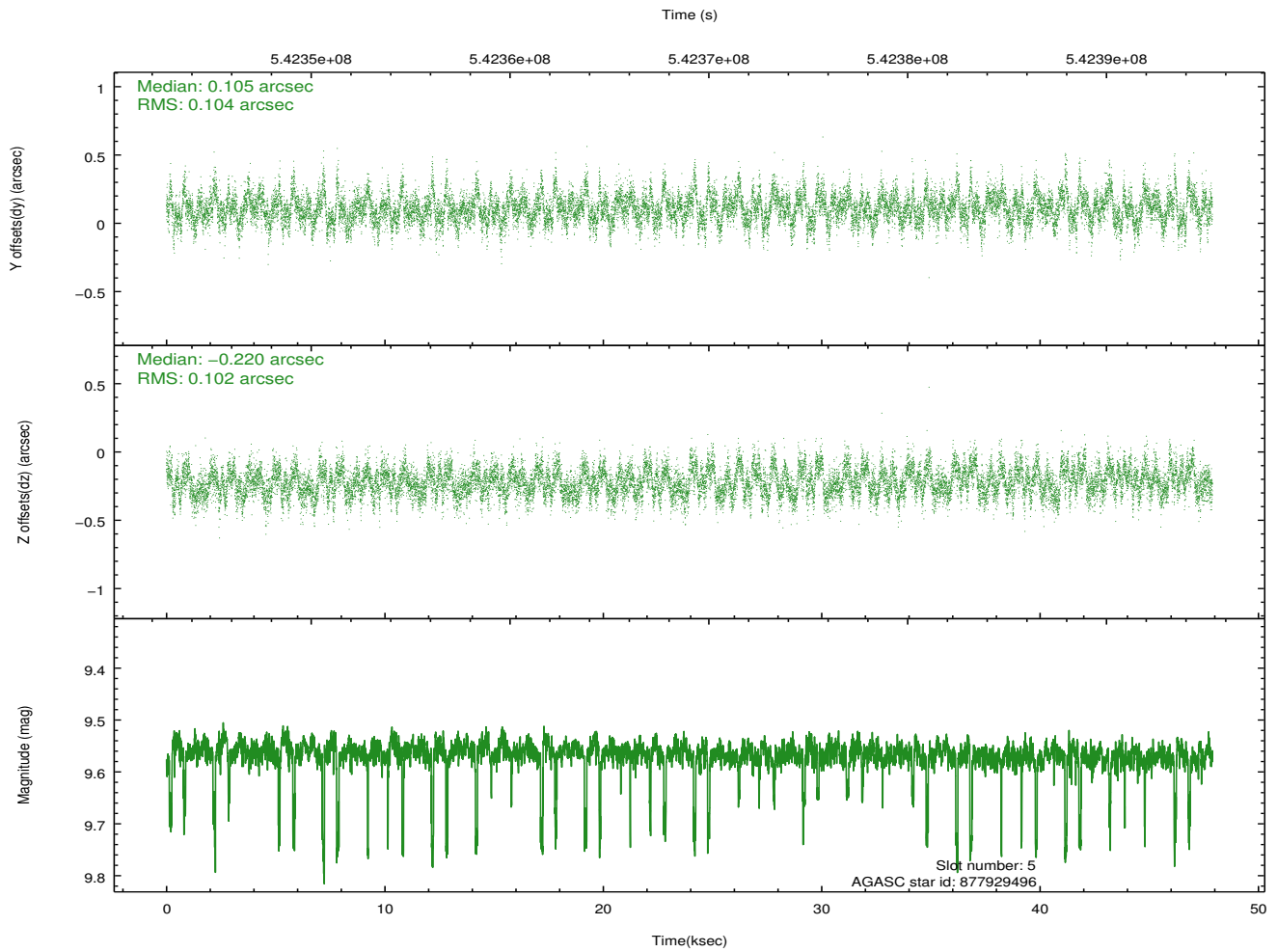
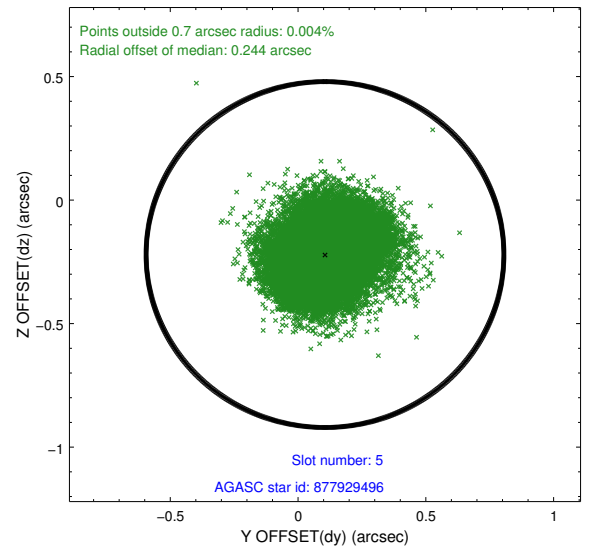
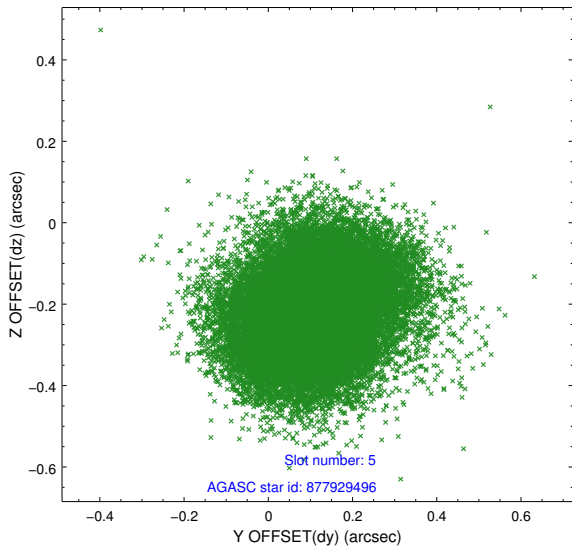
2.4.1 Slot 3



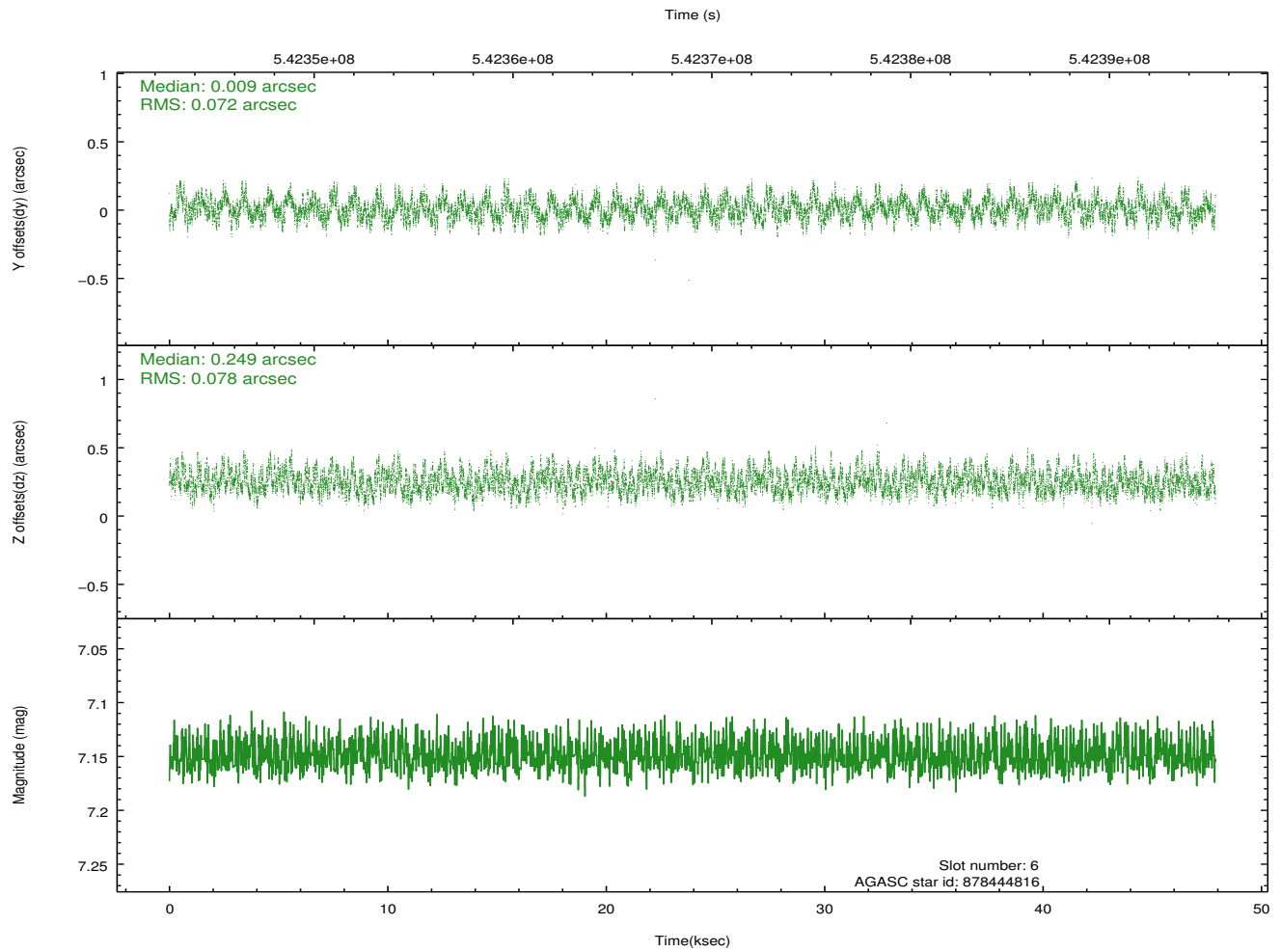
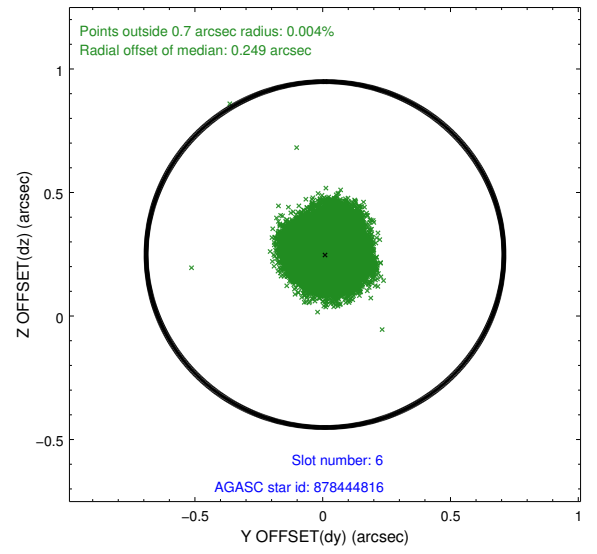
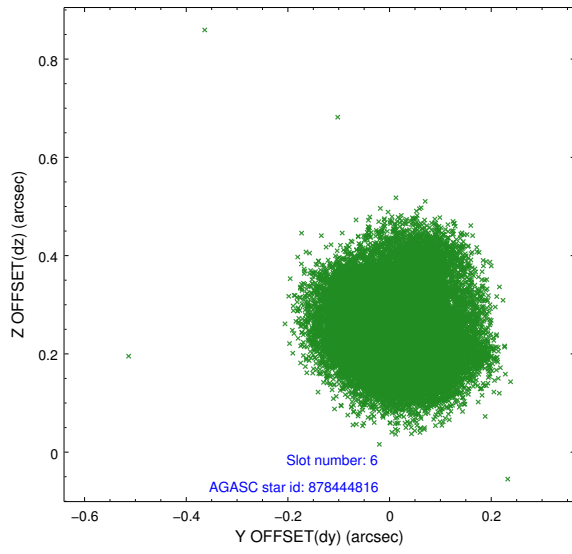
2.4.2 Slot 4



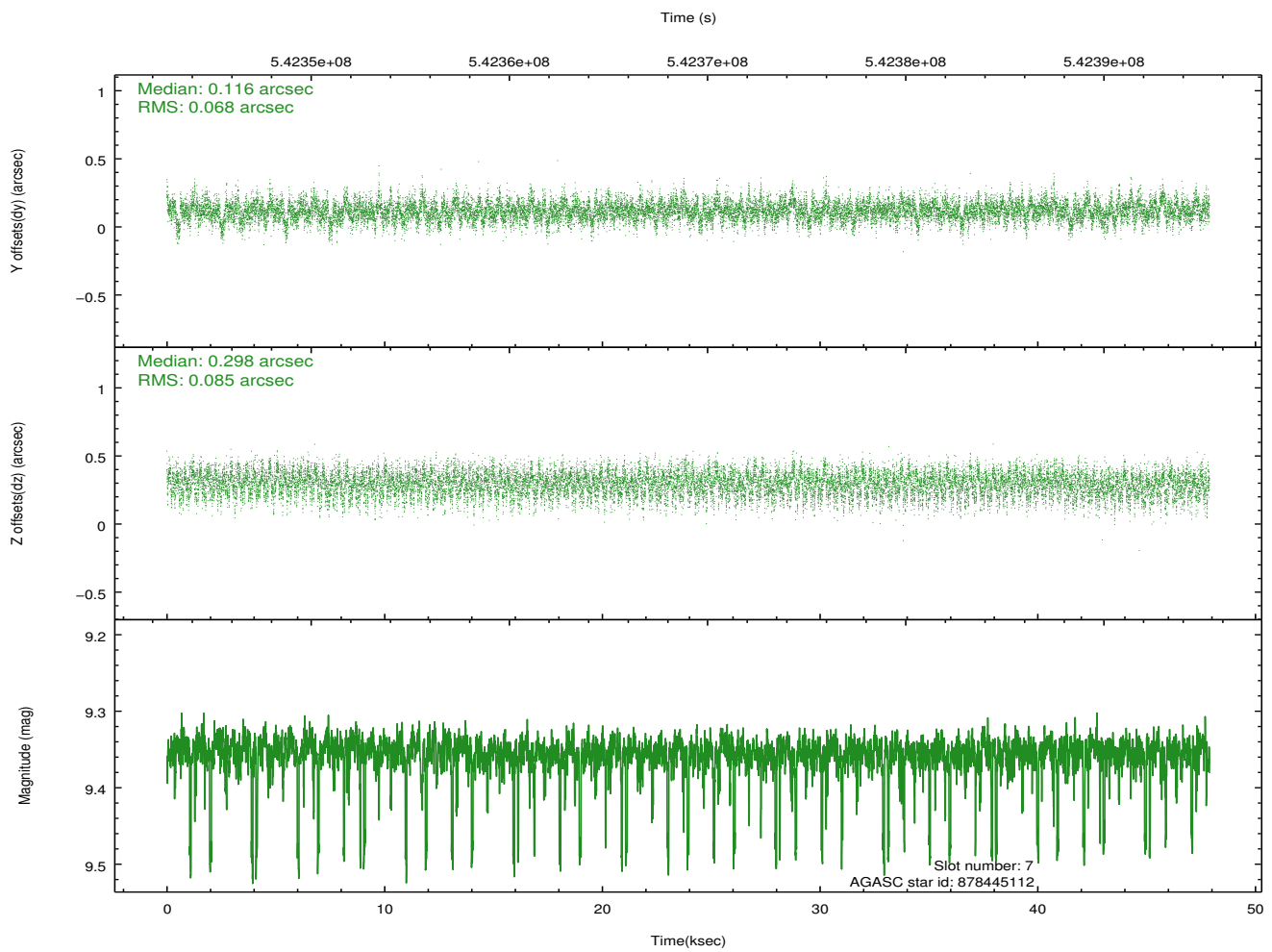
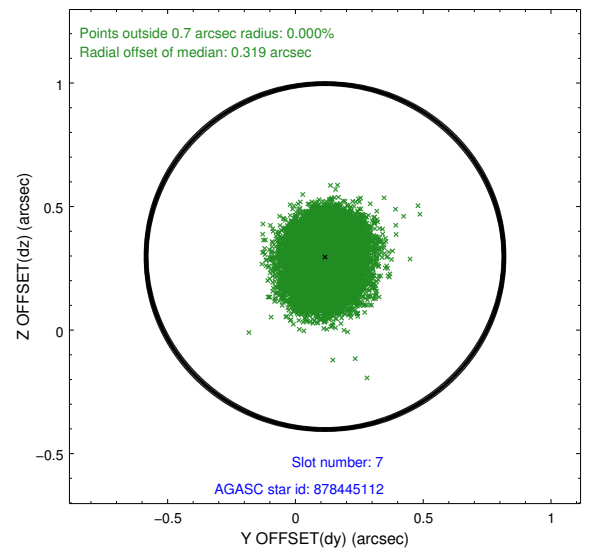
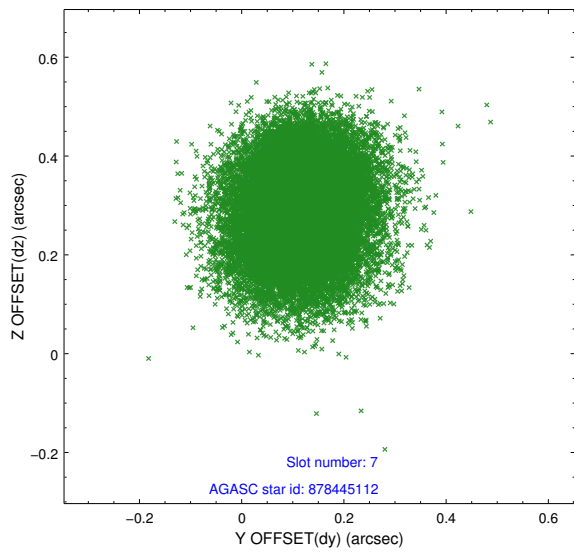
2.4.3 Slot 5



2.4.4 Slot 6

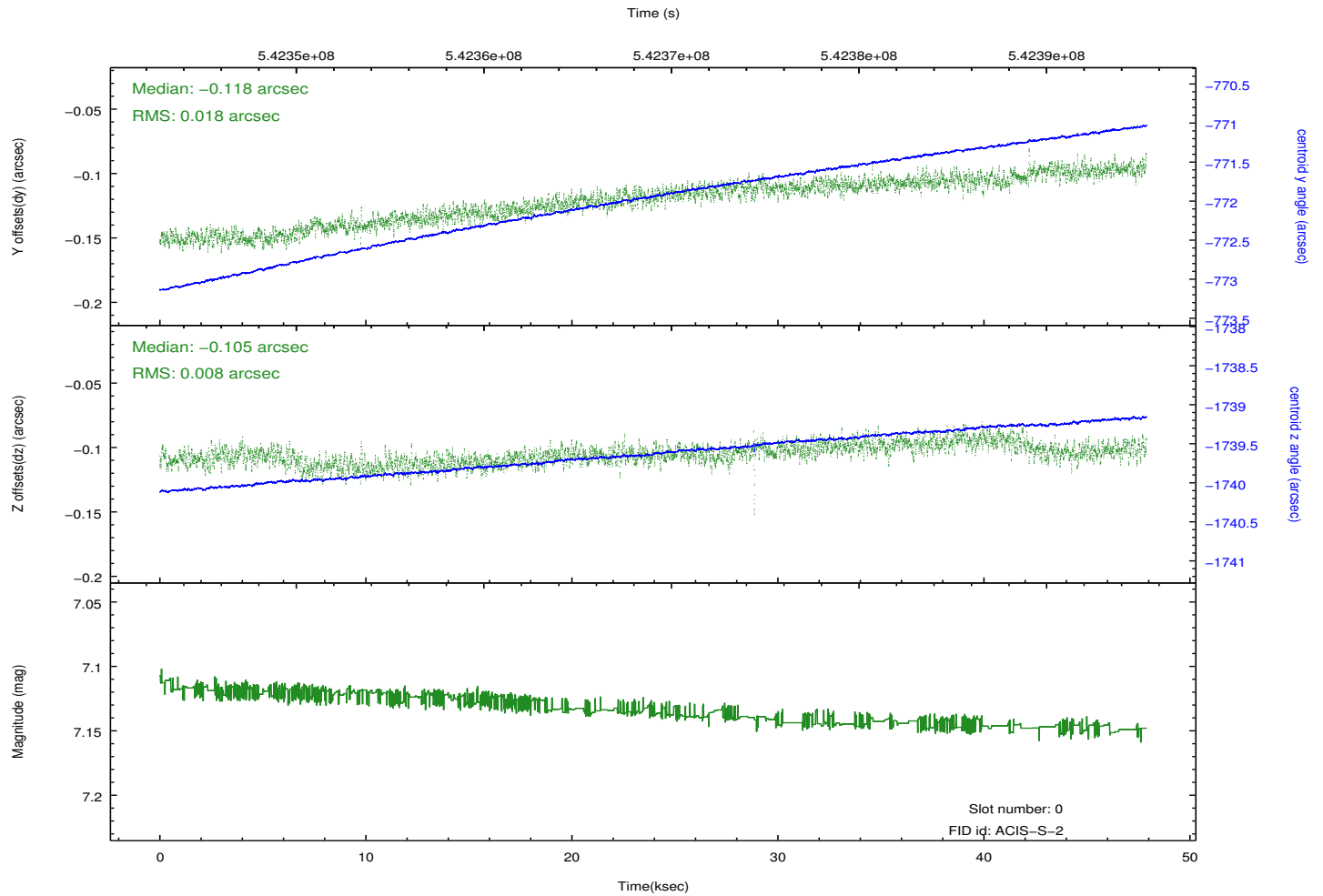
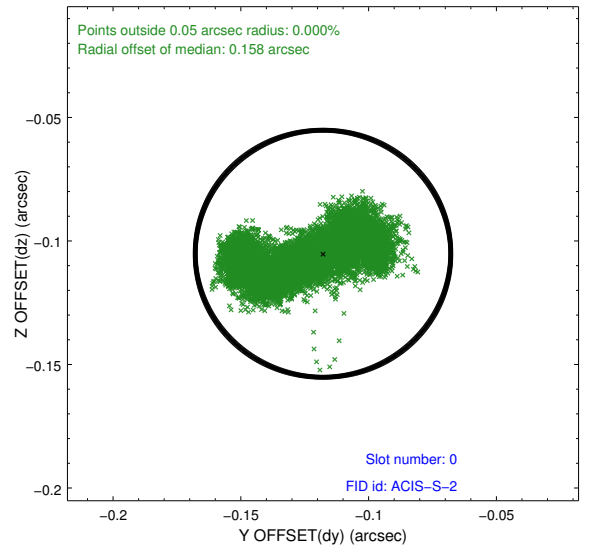
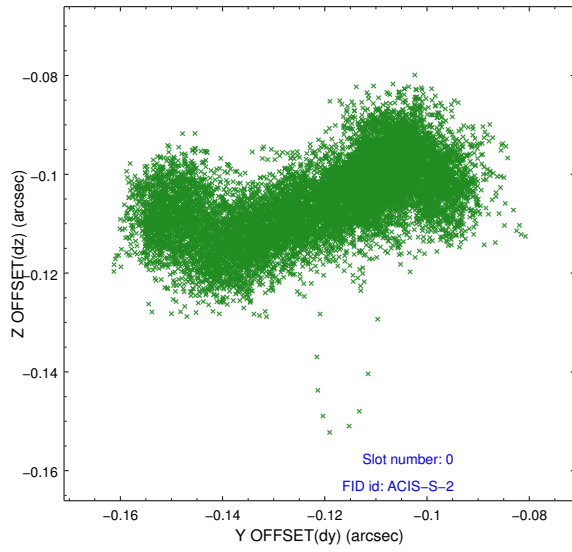


2.4.5 Slot 7

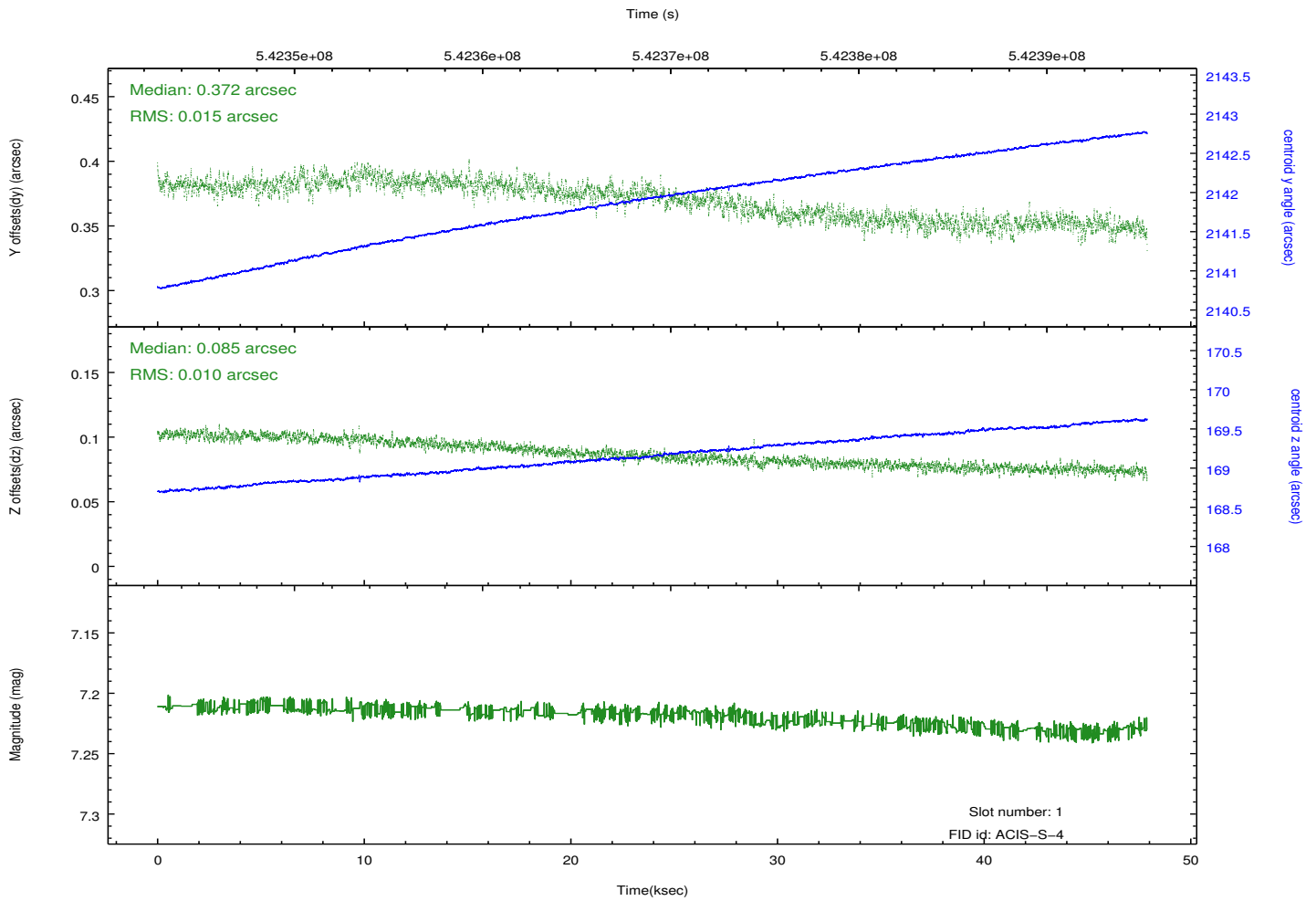
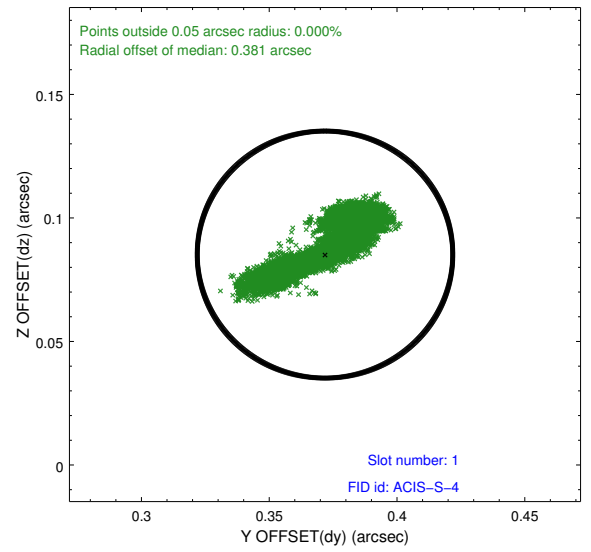
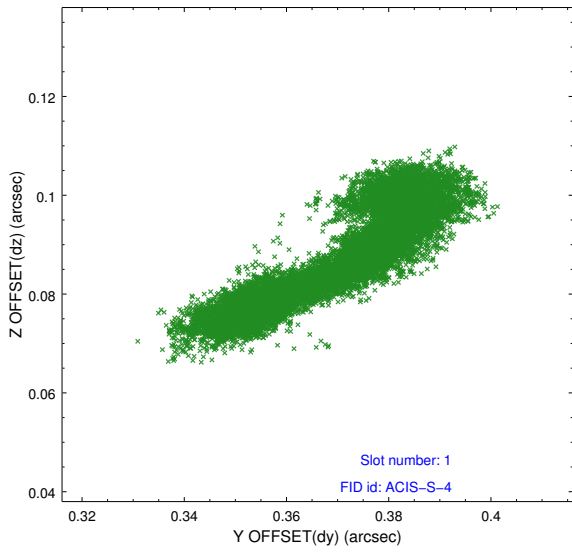


2.5 FID Slots

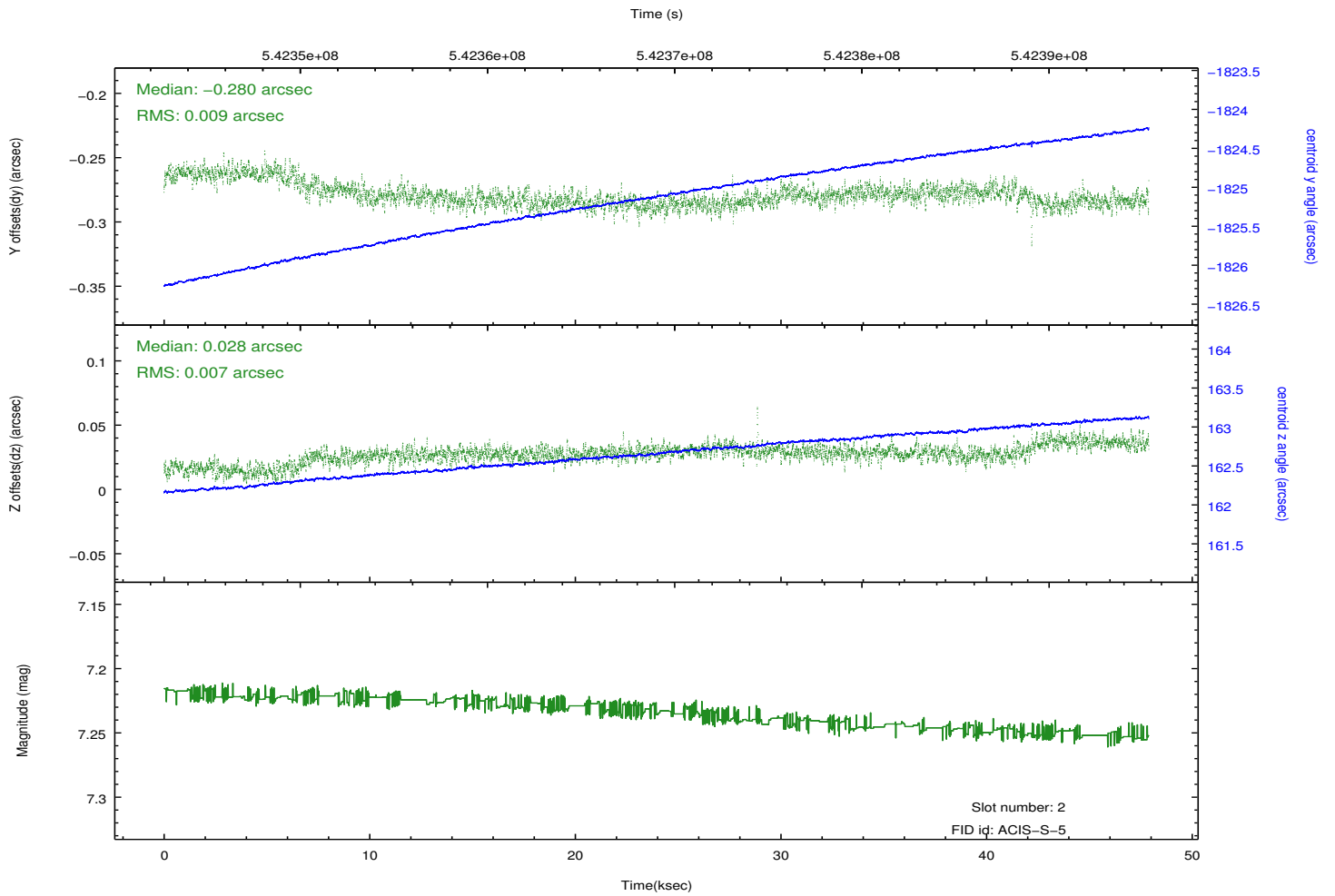
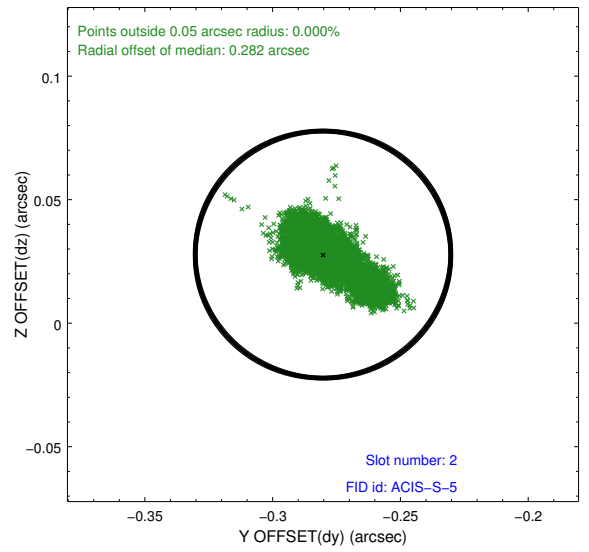
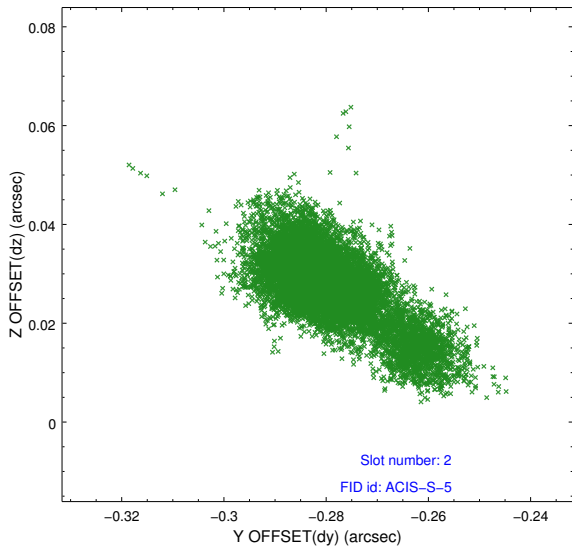
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.03.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.806400804281

A.2 Comments