

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17262 - L2 Version 1
Chandra X-Ray Center

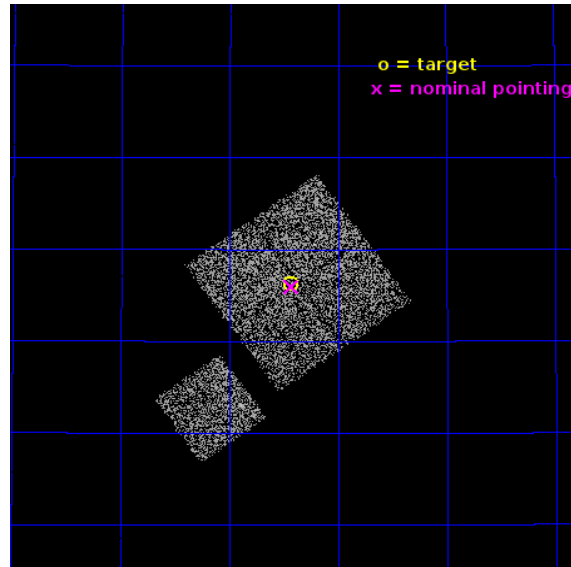
L2 Processing Date : Dec 7 2015

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1 Front

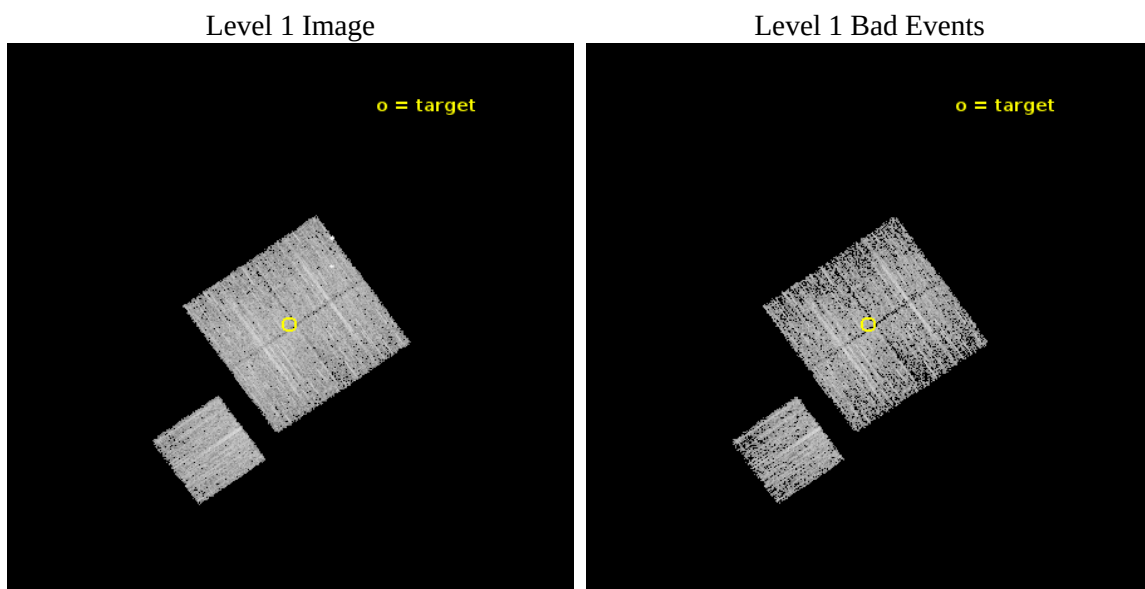
seq_num	801507	Sequence number
obs_id	17262	Observation id
title	Perseus: A New, Low-Redshift Anchor for Cluster Cosmology	Proposal
observer	Prof. Steven Allen	Principal investigator
object	Perseus cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.1095	Observer's specified target RA [deg]
dec_targ	40.772072	Observer's specified target Dec [deg]
ra_nom	50.107648692502	Nominal RA [deg]
dec_nom	40.765790711154	Nominal Dec [deg]
roll_nom	234.63943736102	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4770.9000368118	Sum of GTIs [s]
livetime	4708.5647155454	Livetime [s]
ontime0	4770.9000368118	Sum of GTIs [s]
ontime1	4770.9000368118	Sum of GTIs [s]
ontime2	4770.9000368118	Sum of GTIs [s]
ontime3	4770.9000368118	Sum of GTIs [s]
ontime6	4770.9000368118	Sum of GTIs [s]
l2events	13524	Number of level 2 events



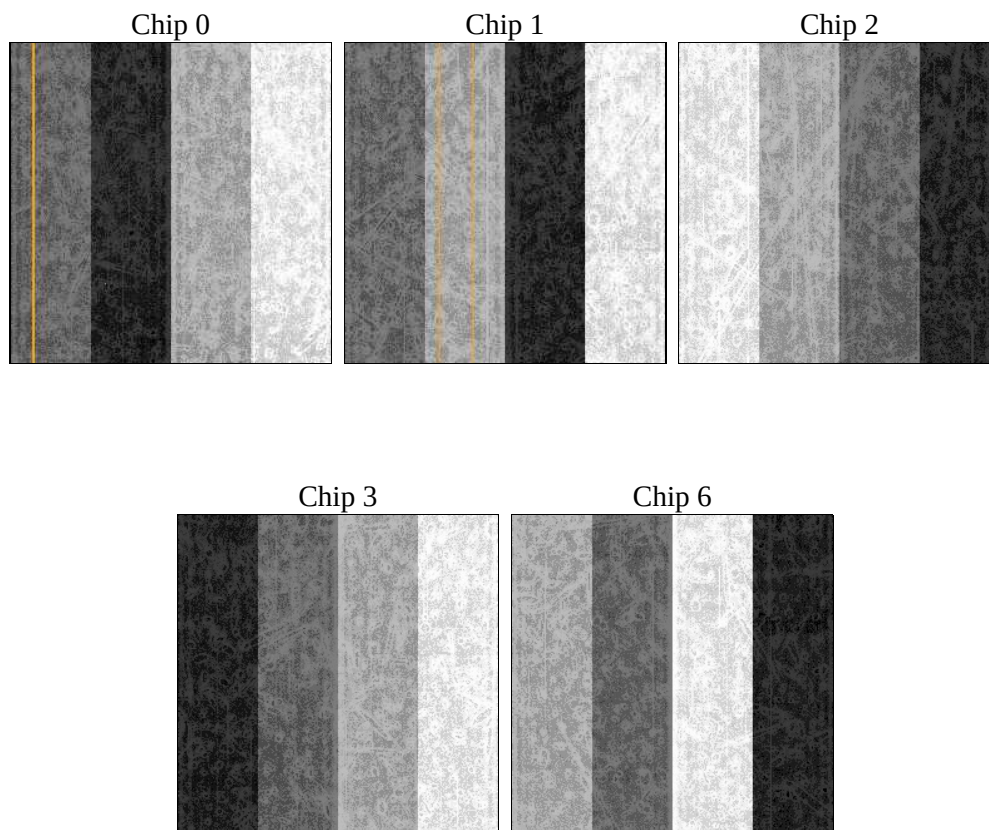
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	4770.9000368118	Sum of GTIs [s]
caldbver	4.6.10a	 	ontime0	4770.9000368118	Sum of GTIs [s]
date	2015-12-07T20:37:28	Date and time of file creation	ontime1	4770.9000368118	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4770.9000368118	Sum of GTIs [s]
			ontime3	4770.9000368118	Sum of GTIs [s]
			ontime6	4770.9000368118	Sum of GTIs [s]
			l1events	131732	Number of level 1 events

2.1.4 Events

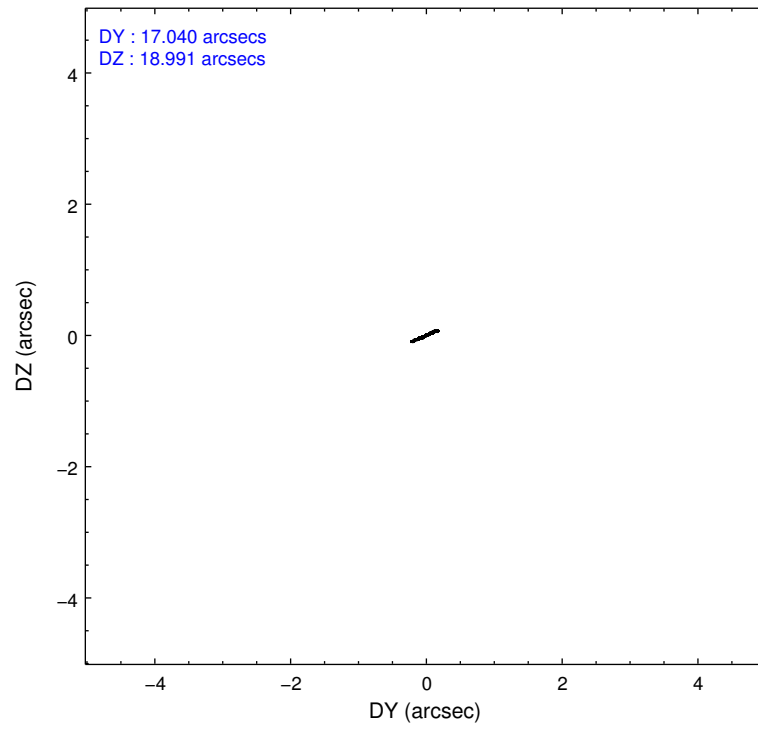
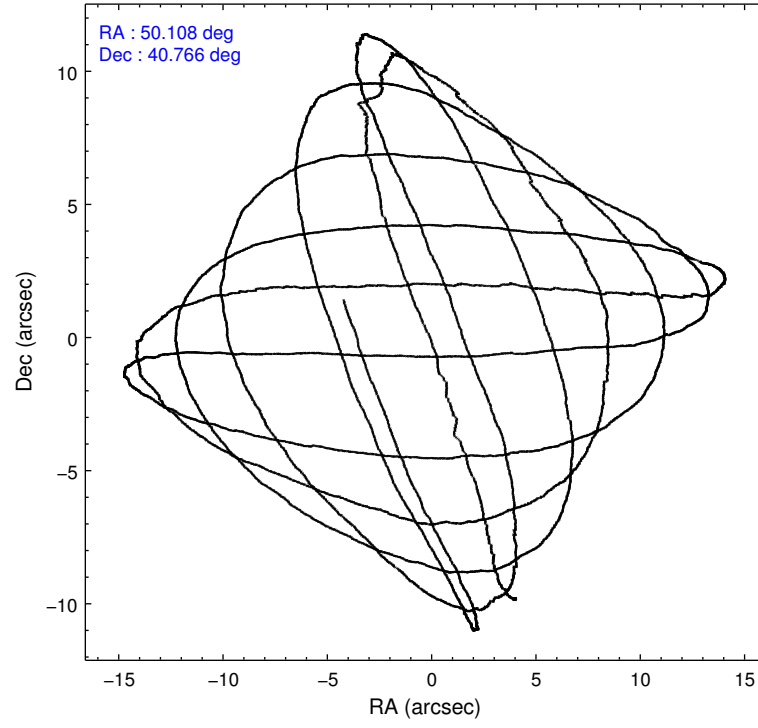
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	24860	26202	27435	26265	26970
rejected events	21727	21777	24534	23160	23931
rejected %	87%	83%	89%	88%	88%

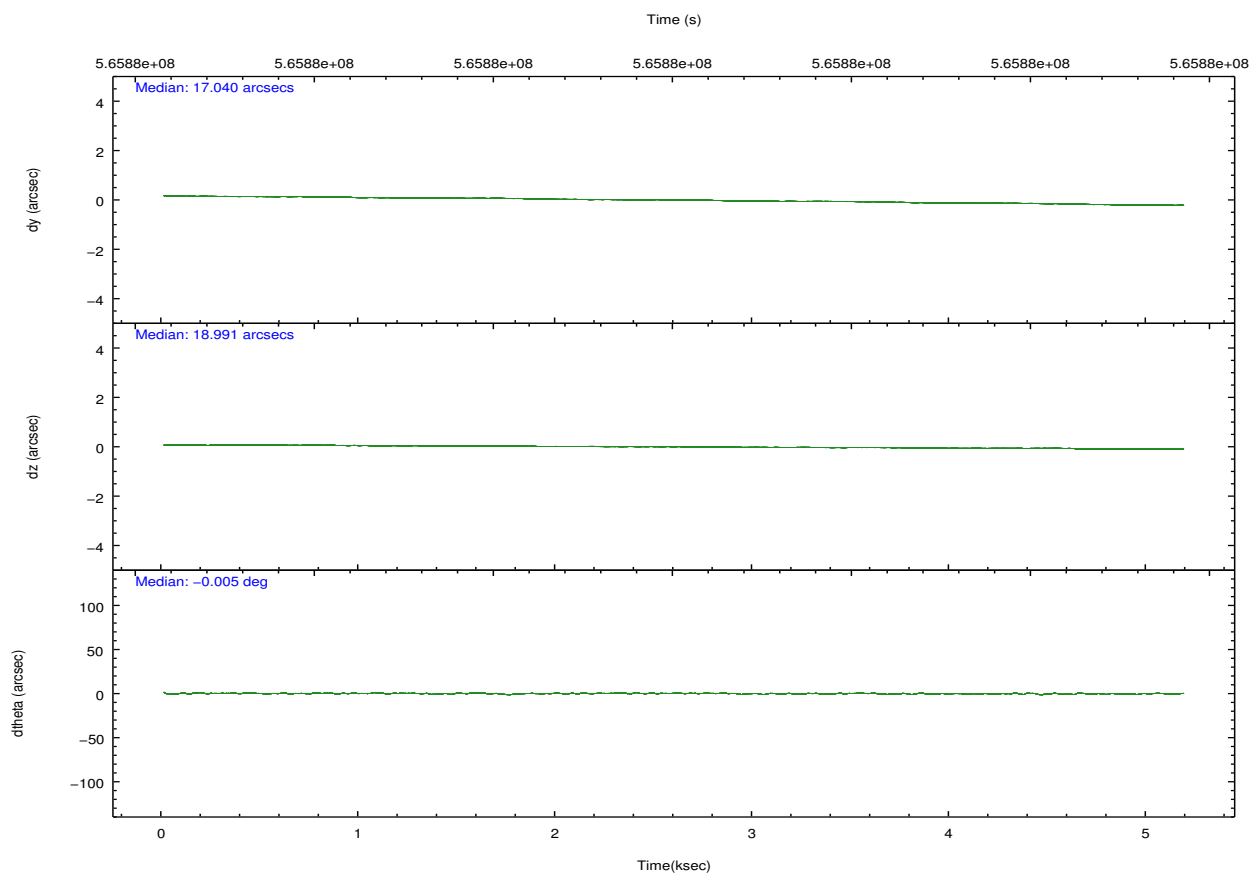
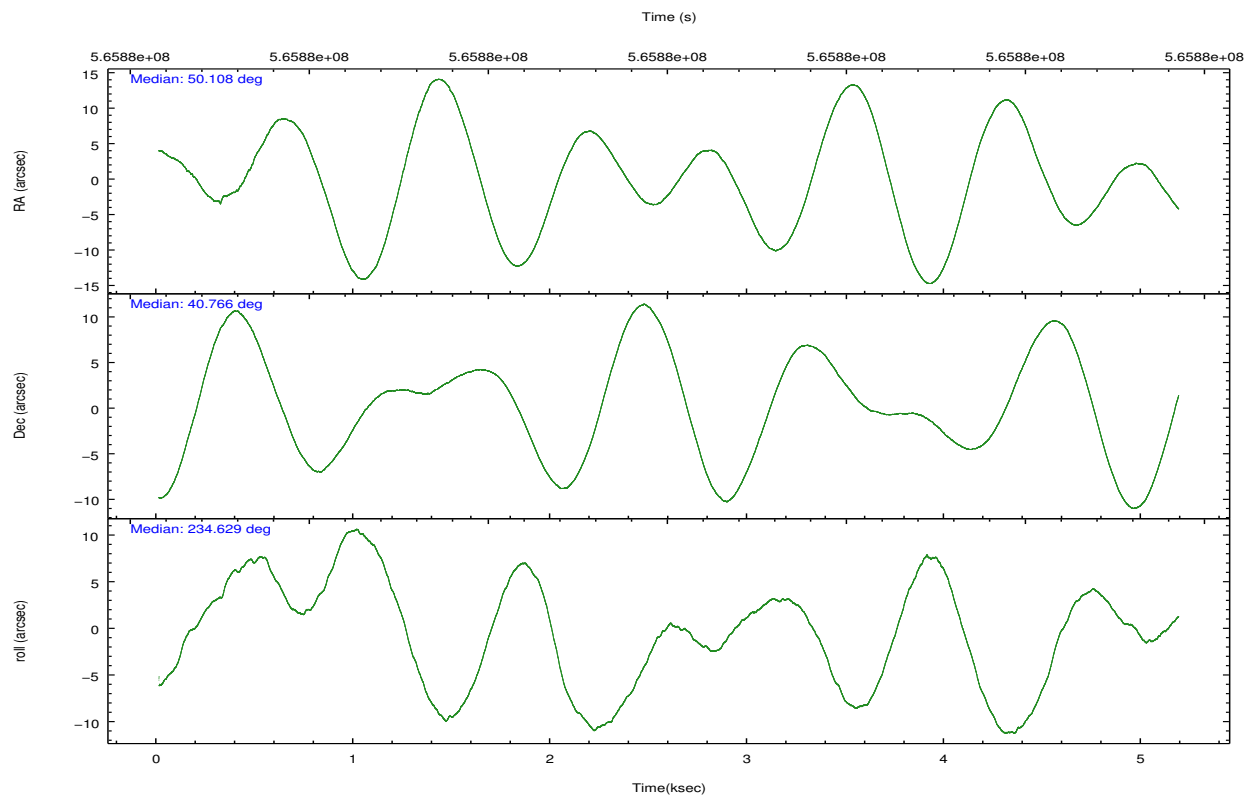
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1149	1764	1076	1203	974
	4%	6%	3%	4%	3%
grade 1 events	16	11	14	13	6
	0%	0%	0%	0%	0%
grade 2 events	748	1319	679	648	753
	3%	5%	2%	2%	2%
grade 3 events	311	306	295	340	284
	1%	1%	1%	1%	1%
grade 4 events	284	313	289	308	293
	1%	1%	1%	1%	1%
grade 5 events	1106	1173	1132	1304	1312
	4%	4%	4%	4%	4%
grade 6 events	644	724	566	608	739
	2%	2%	2%	2%	2%
grade 7 events	20602	20592	23384	21841	22609
	82%	78%	85%	83%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	50.110881	50.10764869250195	CCD I2 on	Y	Y
[deg] Pointing Dec	40.793367	40.76579071115425	CCD I3 on	Y	Y
[deg] Pointing Roll	234.428643	234.6394373610158	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	565876611.184000	565876218.99476	CCD S5 on	N	N
Observation start date	2015-12-07T11:55:43	2015-12-07T11:50:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	565881611.184000	565881805.75758	On-chip summing requested	N	N
Observation end date	2015-12-07T13:19:03	2015-12-07T13:23:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



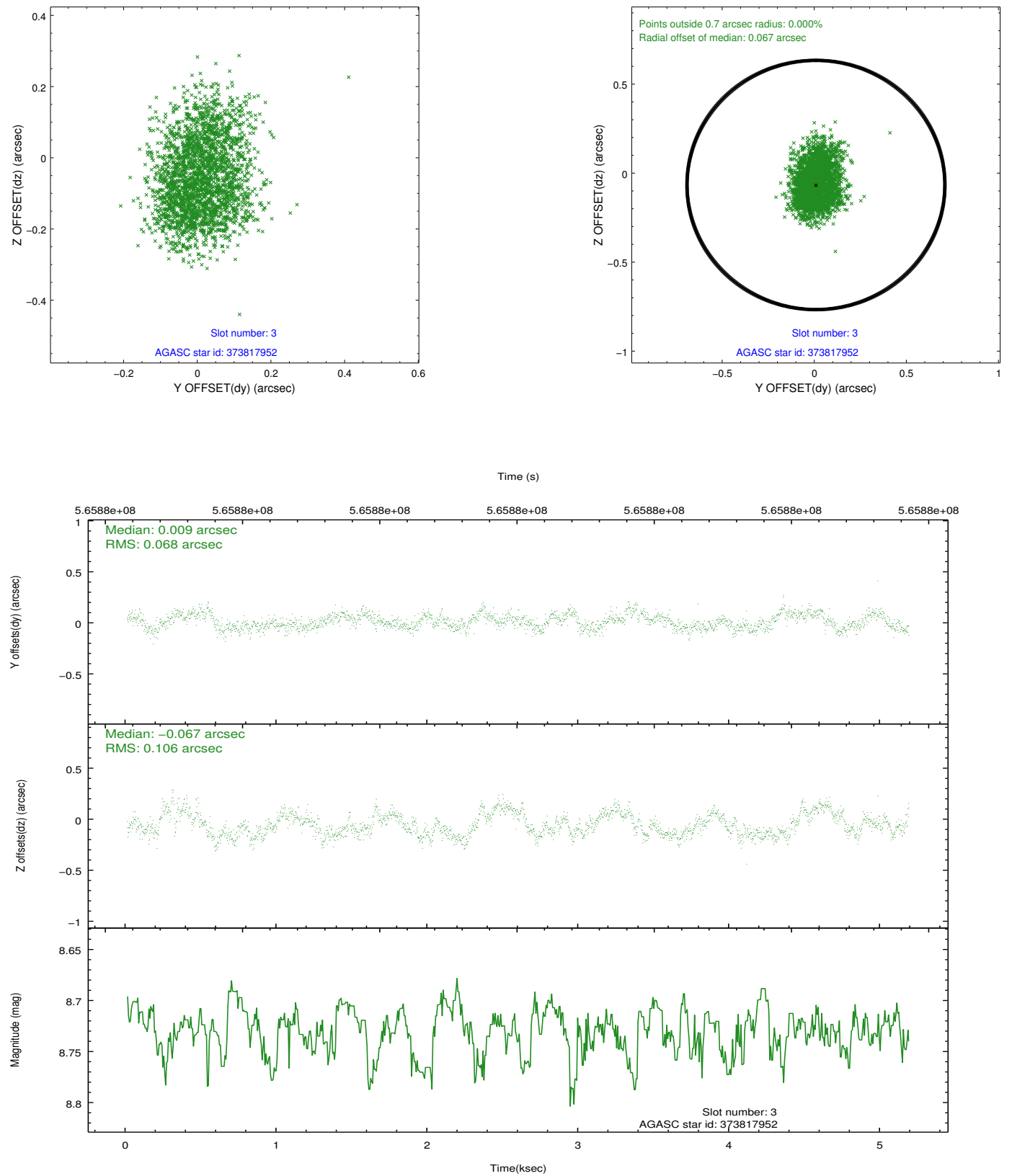


Slot Statistics

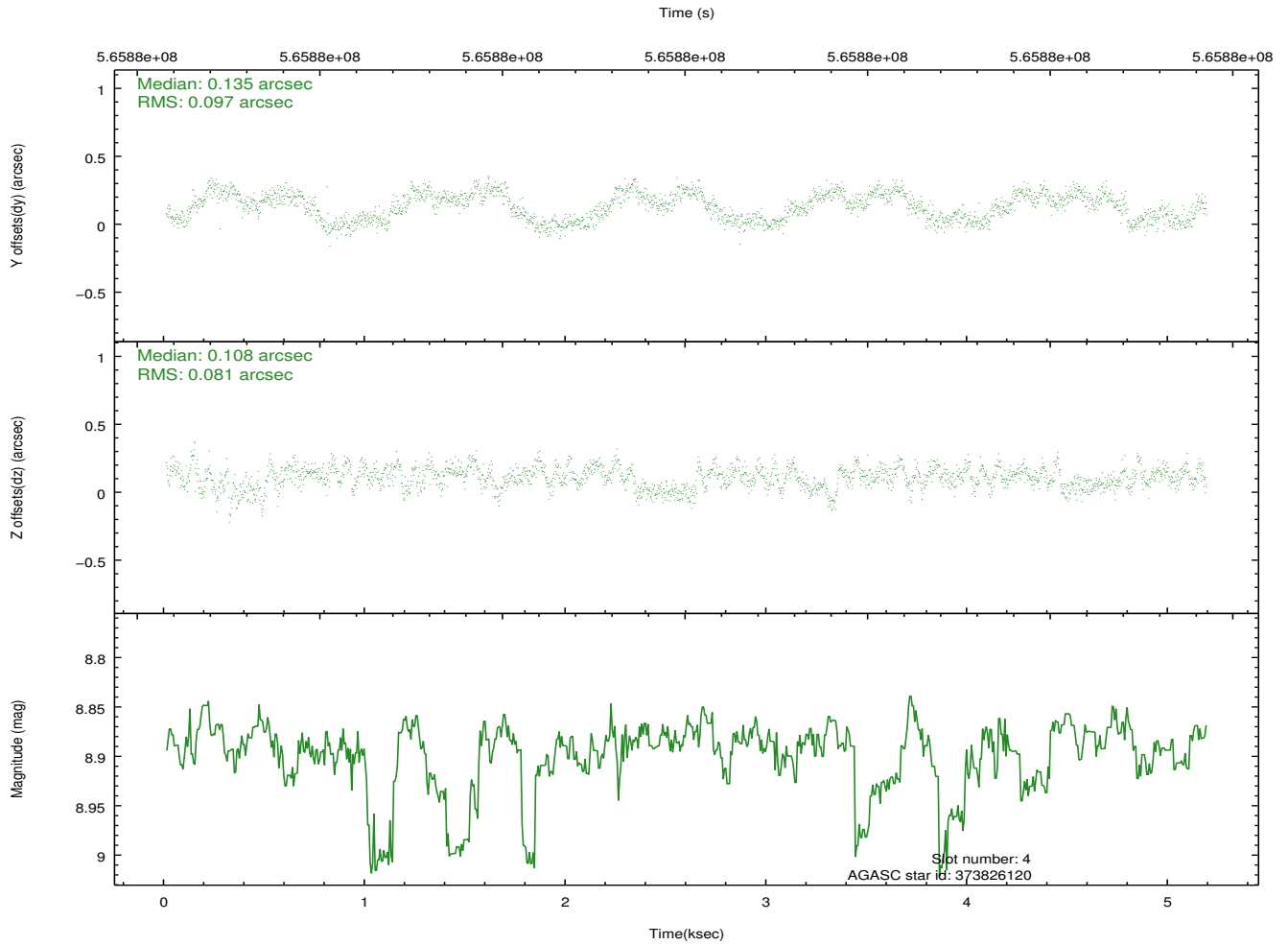
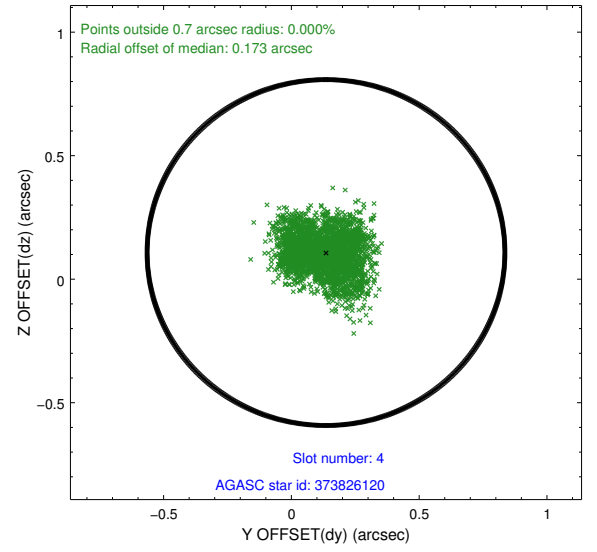
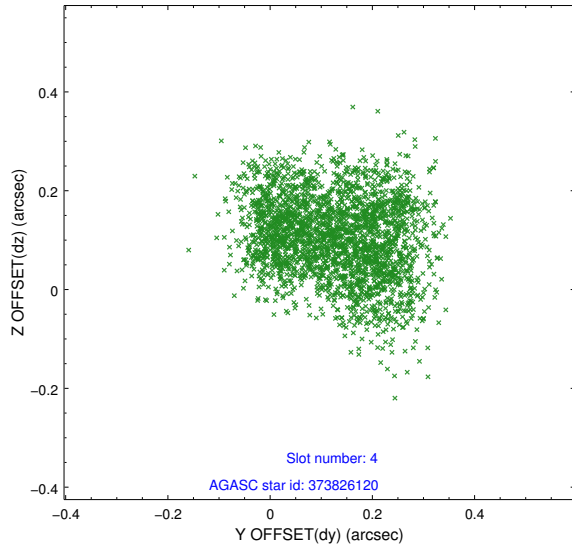
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	1264	0.059	-0.003	0.006	0.011	0.000000	0.000000	922.48	-842.65
1	FID		ACIS-I-5	7.26	1264	-0.358	0.025	0.006	0.010	0.000000	0.000000	-1825.49	1054.15
2	FID		ACIS-I-6	7.27	1264	0.208	0.048	0.007	0.012	0.000000	0.000000	386.77	1700.10
3	GUIDE	used	373817952	8.73	2525	0.009	-0.067	0.133	0.215	49.913424	40.978510	-230.15	-824.25
4	GUIDE	used	373826120	8.89	2526	0.135	0.108	0.138	0.203	49.738165	41.186341	-564.65	-1645.67
5	GUIDE	used	375526240	8.74	2527	-0.059	0.125	0.093	0.153	51.034416	40.968783	-1985.16	1666.58
6	GUIDE	used	375527168	7.86	2528	-0.063	-0.428	0.126	0.193	50.968367	40.629276	-892.89	2243.00
7	GUIDE	used	375534824	9.02	2523	-0.022	0.257	0.222	0.304	50.943864	41.119832	-2279.40	1148.50

2.4 Star Slots

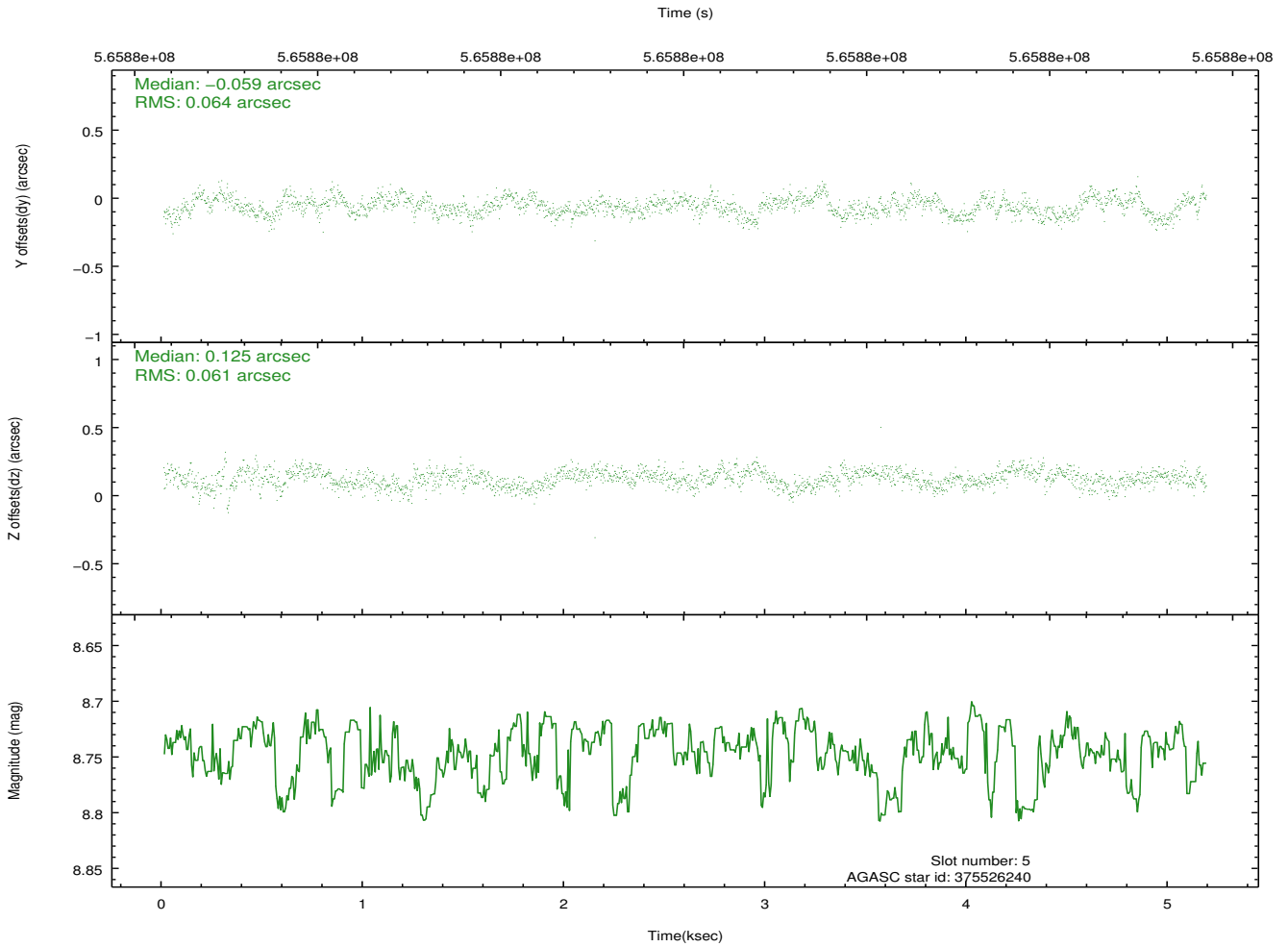
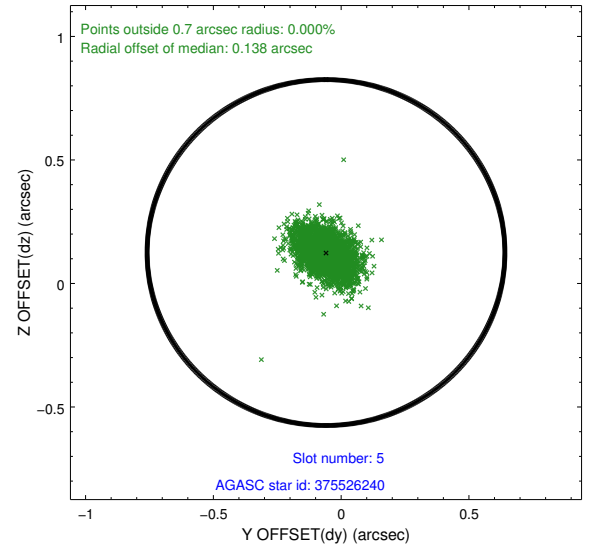
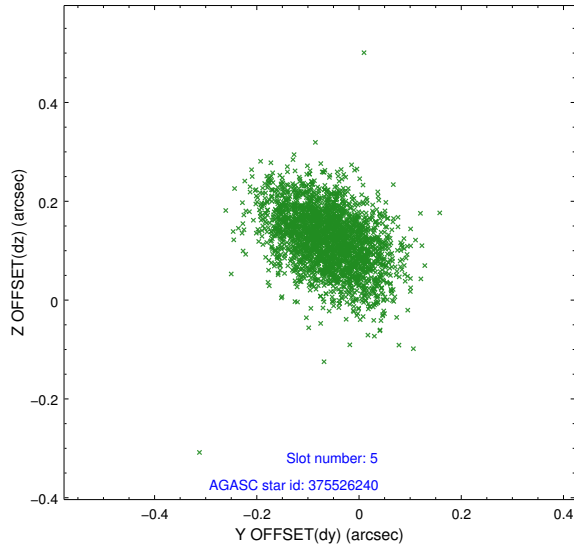
2.4.1 Slot 3



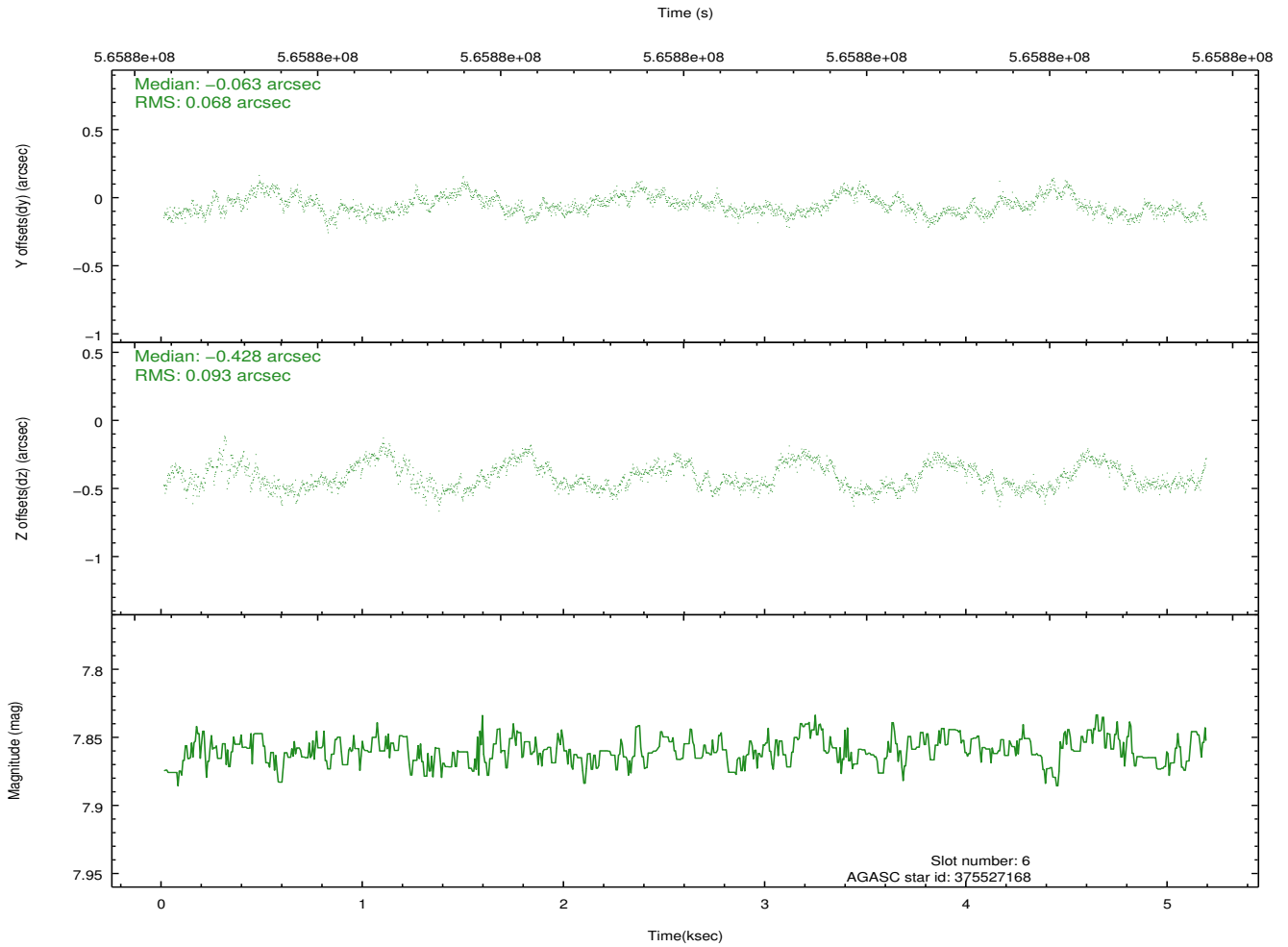
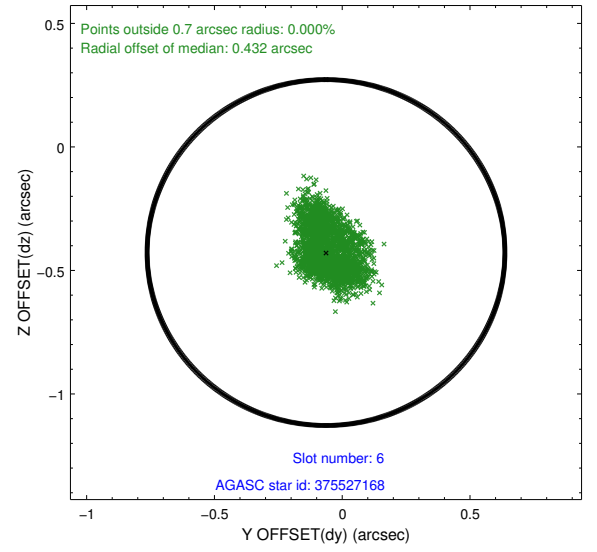
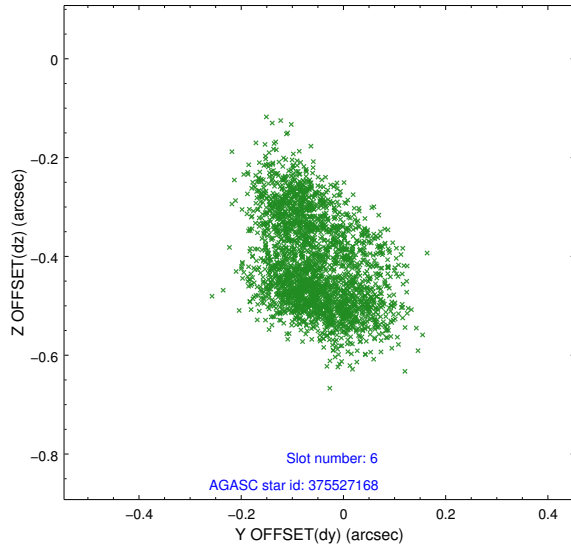
2.4.2 Slot 4



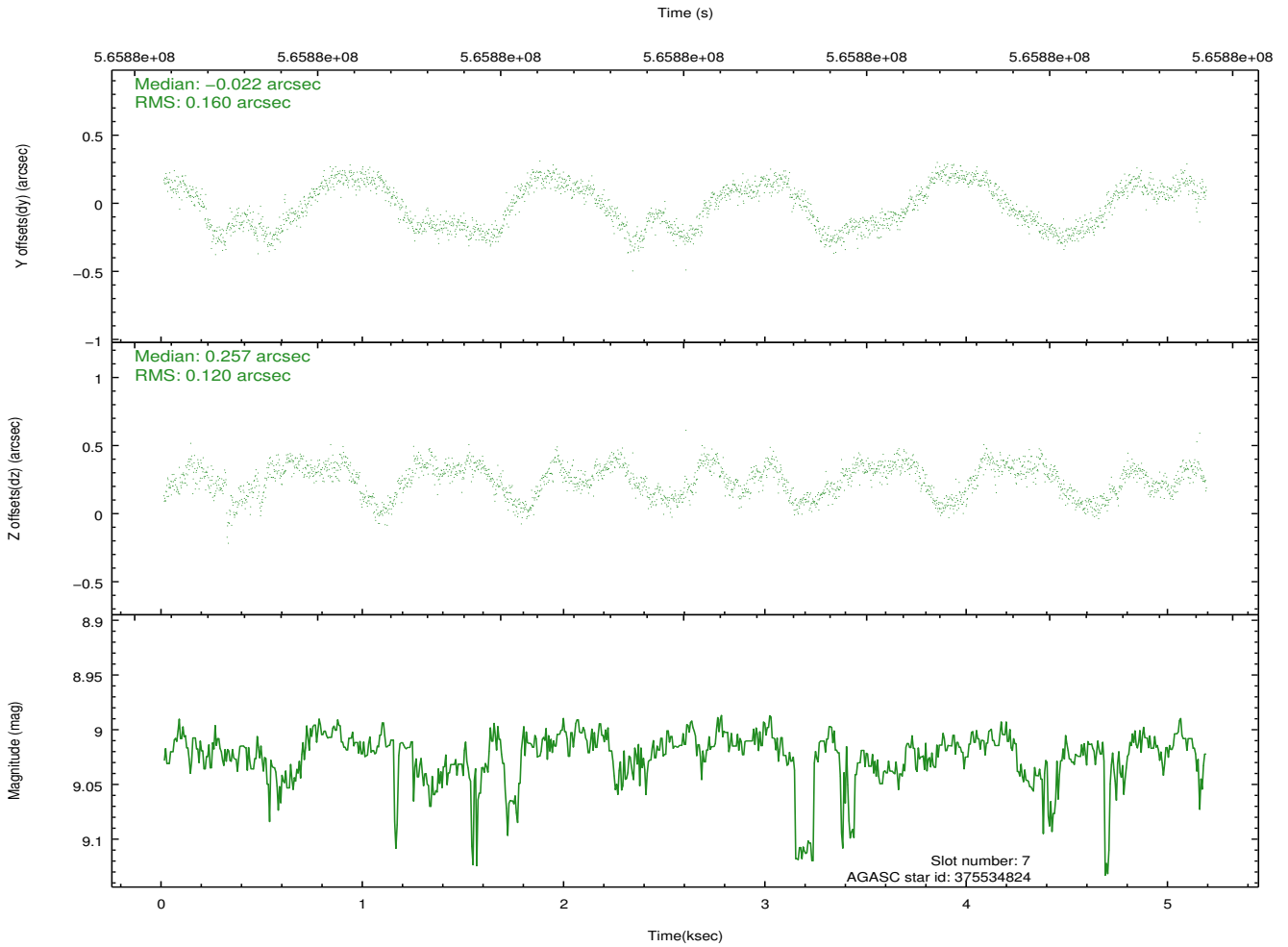
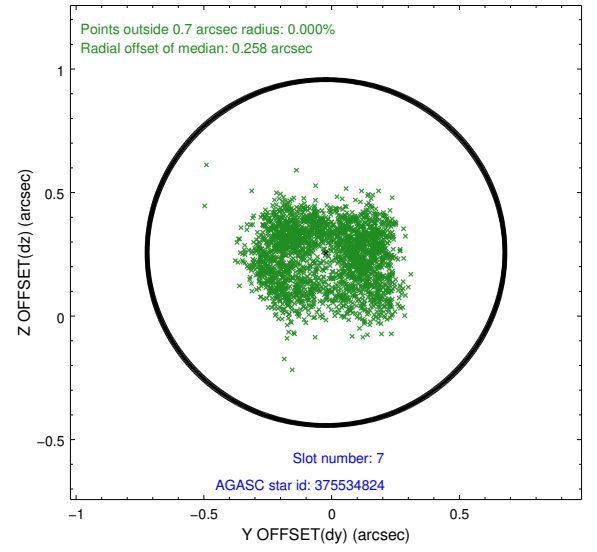
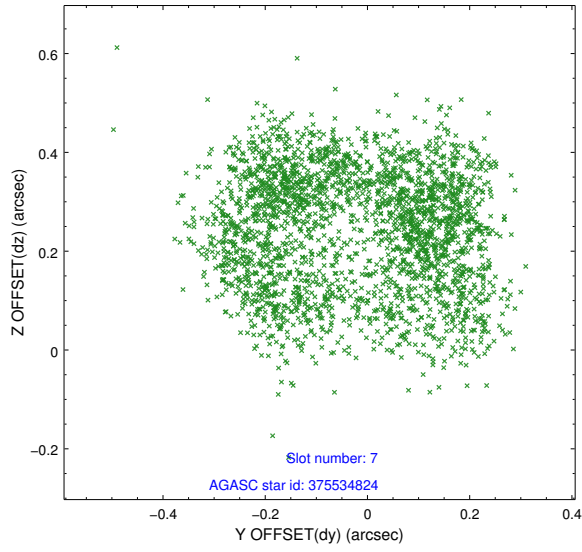
2.4.3 Slot 5



2.4.4 Slot 6

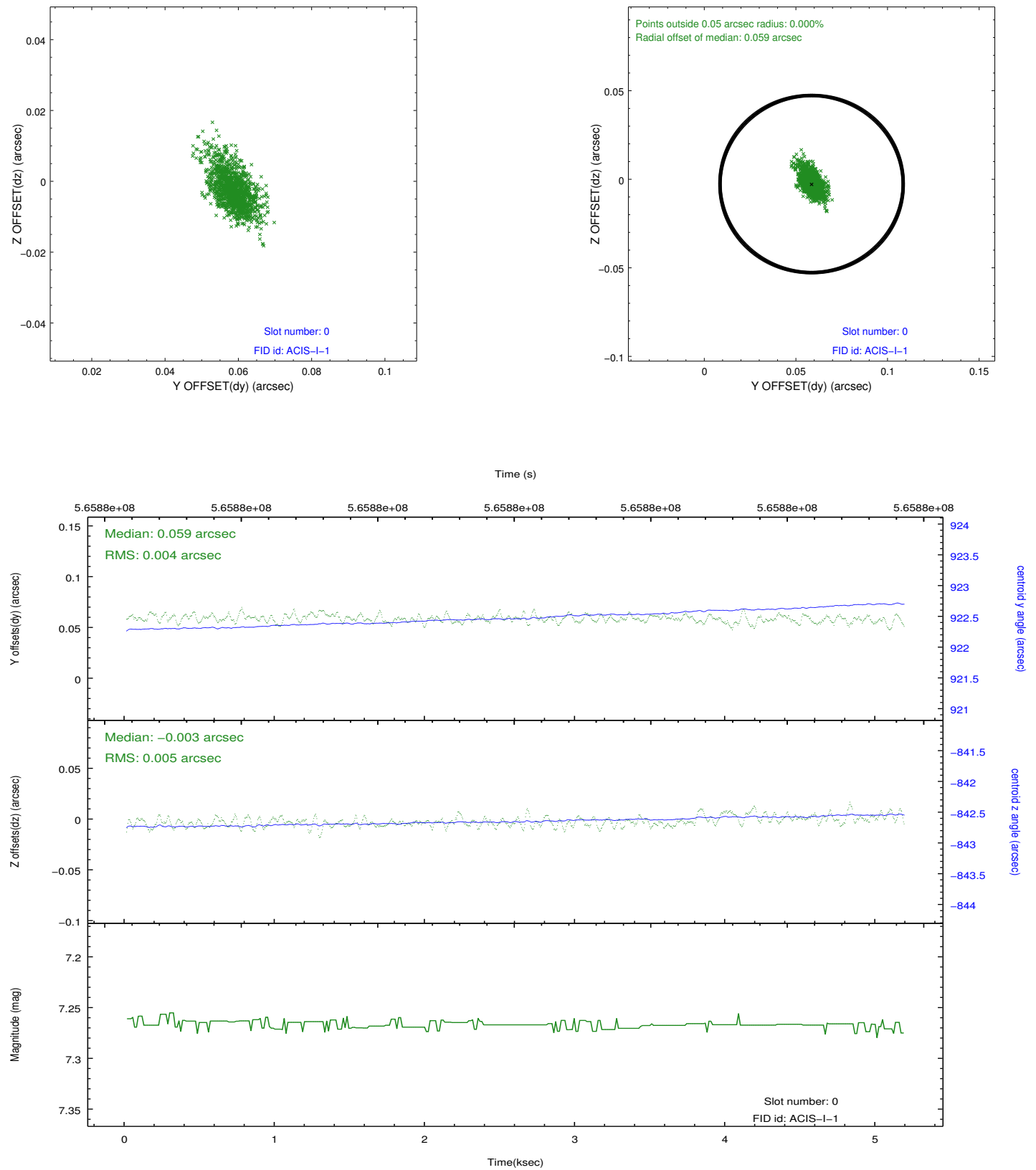


2.4.5 Slot 7

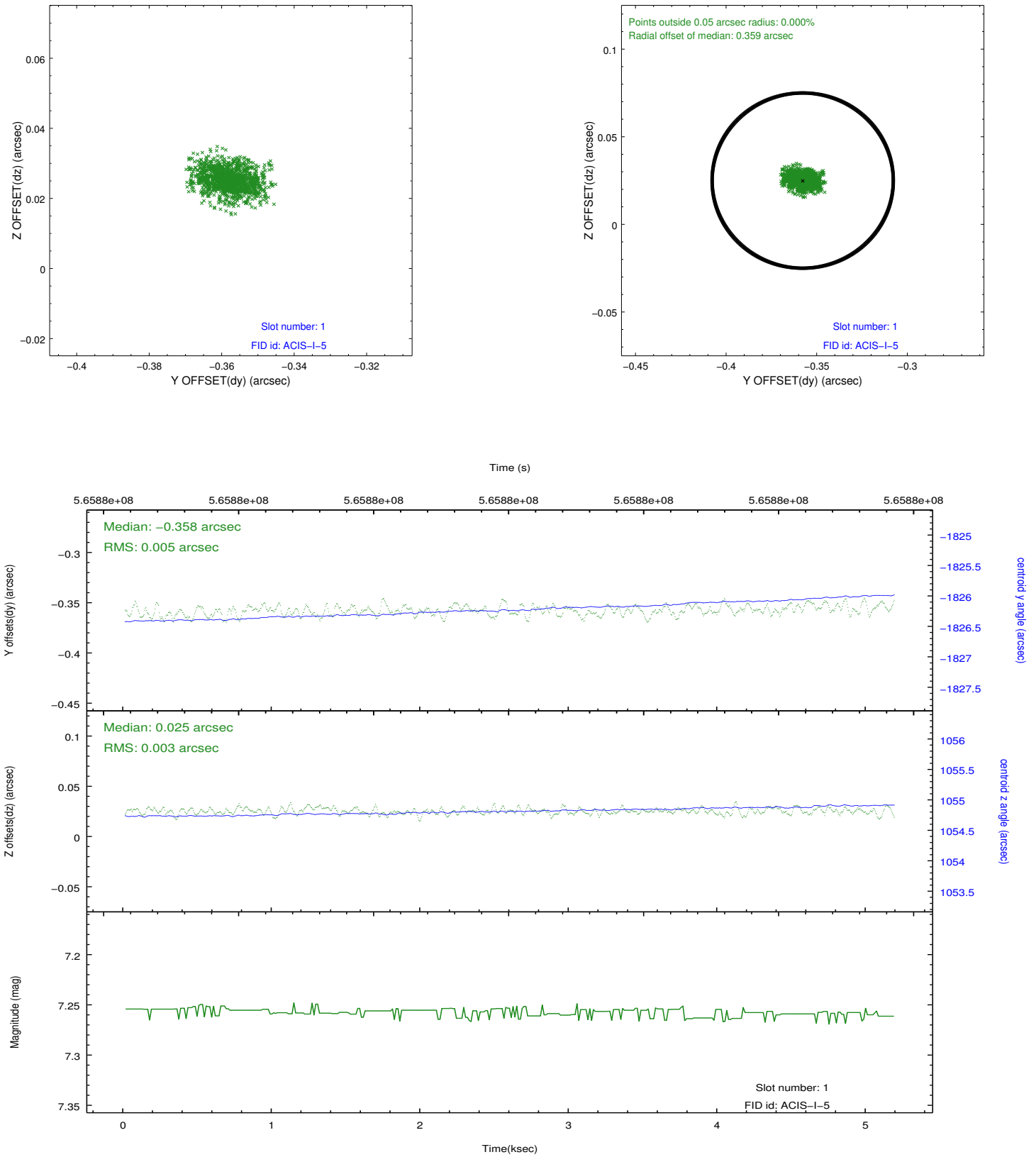


2.5 FID Slots

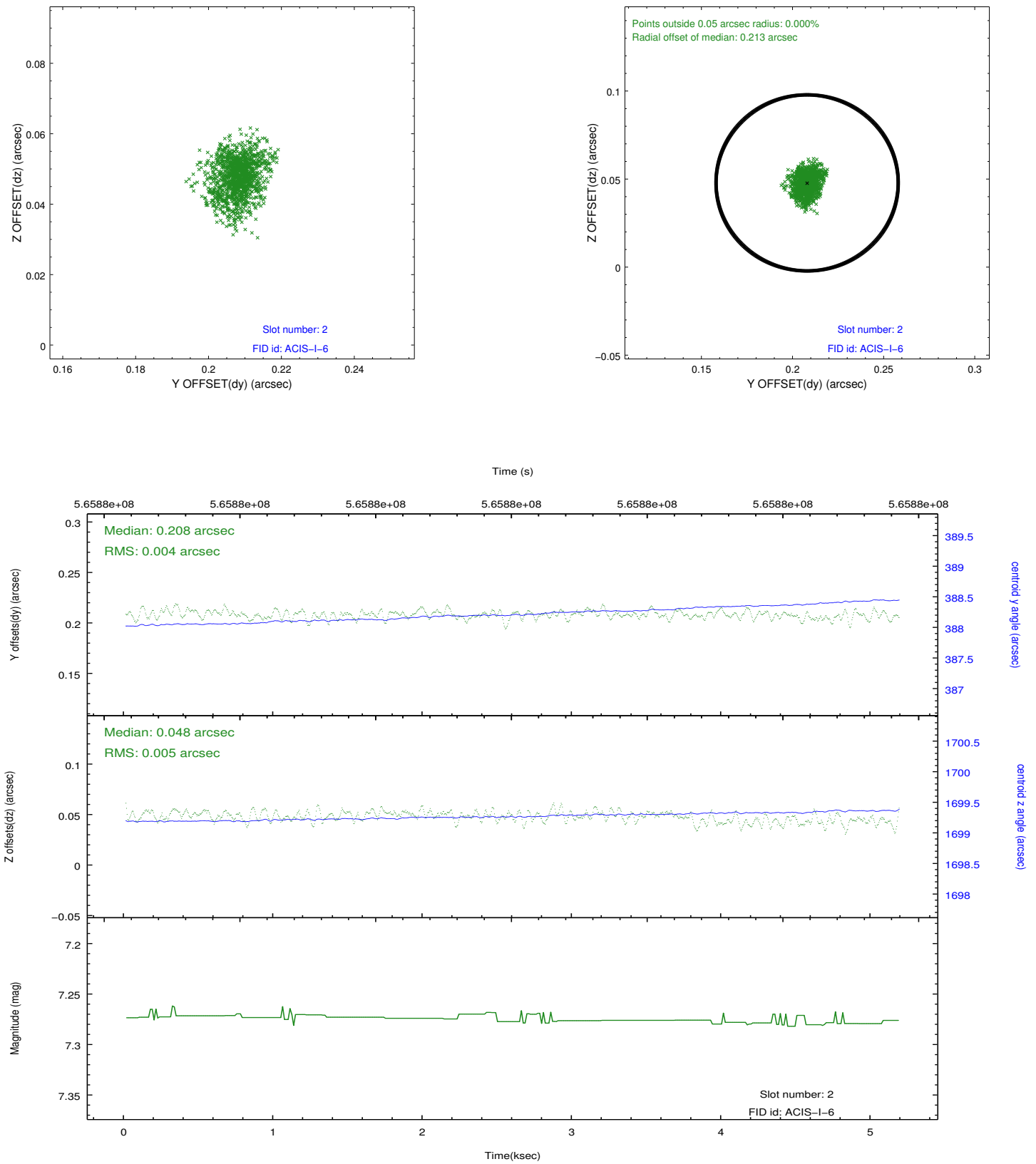
2.5.1 Slot 0



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)	2015.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7709000368118

A.2 Comments