

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17622 - L2 Version 1
Chandra X-Ray Center

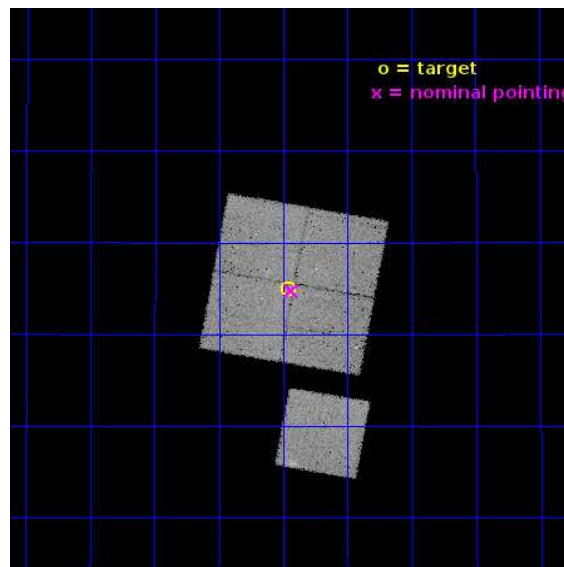
L2 Processing Date : Apr 27 2016

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1 Front

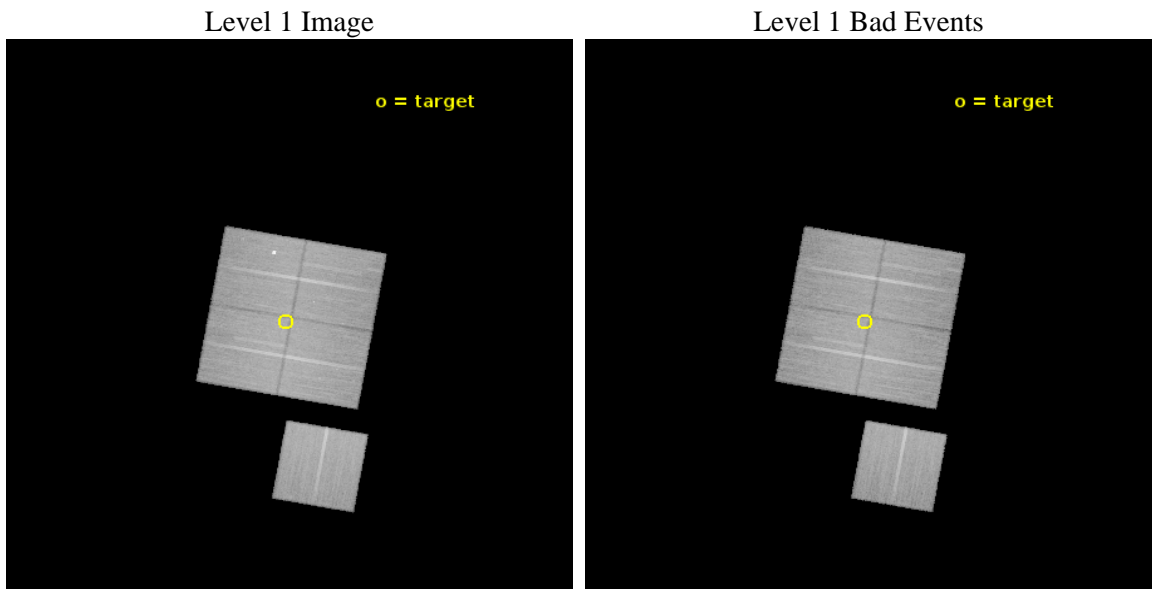
seq_num	801501	Sequence number
obs_id	17622	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.991133	Observer's specified target RA [deg]
dec_targ	26.249931	Observer's specified target Dec [deg]
ra_nom	206.98421276563	Nominal RA [deg]
dec_nom	26.24613983094	Nominal Dec [deg]
roll_nom	190.21174149546	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40768.059233427	Sum of GTIs [s]
livetime	40235.394526534	Livetime [s]
ontime0	40771.200313687	Sum of GTIs [s]
ontime1	40764.9181633	Sum of GTIs [s]
ontime2	40768.059243441	Sum of GTIs [s]
ontime3	40768.059233427	Sum of GTIs [s]
ontime6	40764.91816318	Sum of GTIs [s]
l2events	115209	Number of level 2 events



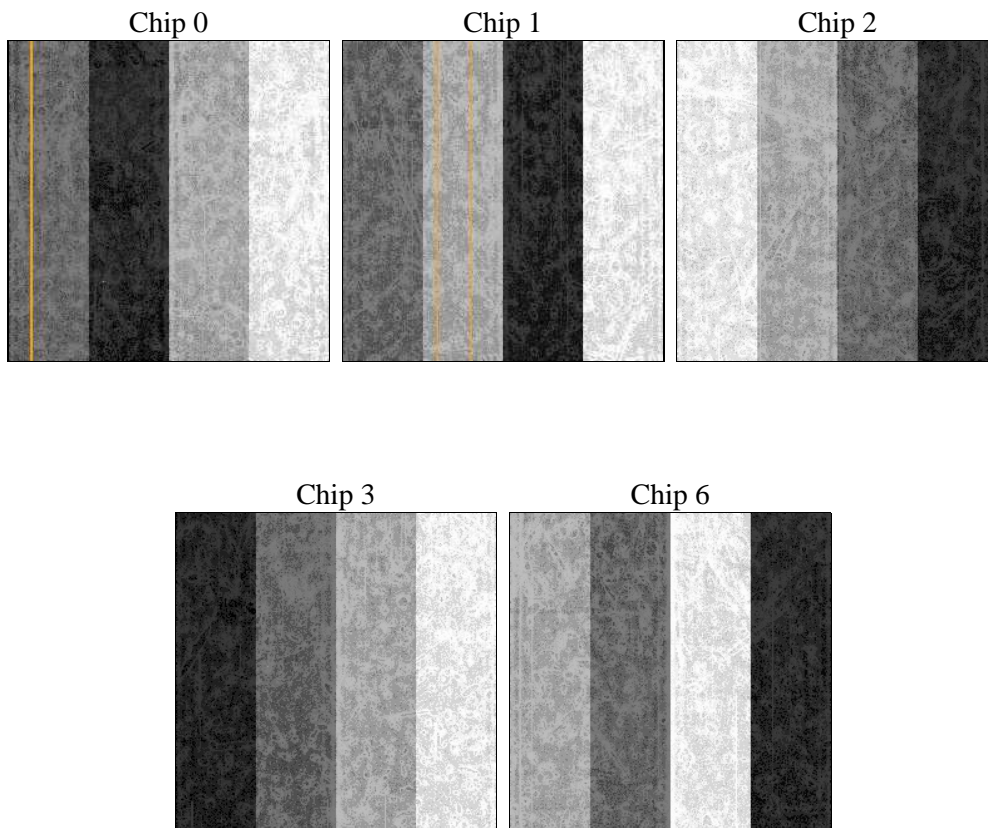
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	40768.059233427	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	40771.200313687	Sum of GTIs [s]
date	2016-04-27T06:14:18	Date and time of file creation	ontime1	40764.9181633	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40768.059243441	Sum of GTIs [s]
			ontime3	40768.059233427	Sum of GTIs [s]
			ontime6	40764.91816318	Sum of GTIs [s]
			l1events	1220152	Number of level 1 events

2.1.4 Events

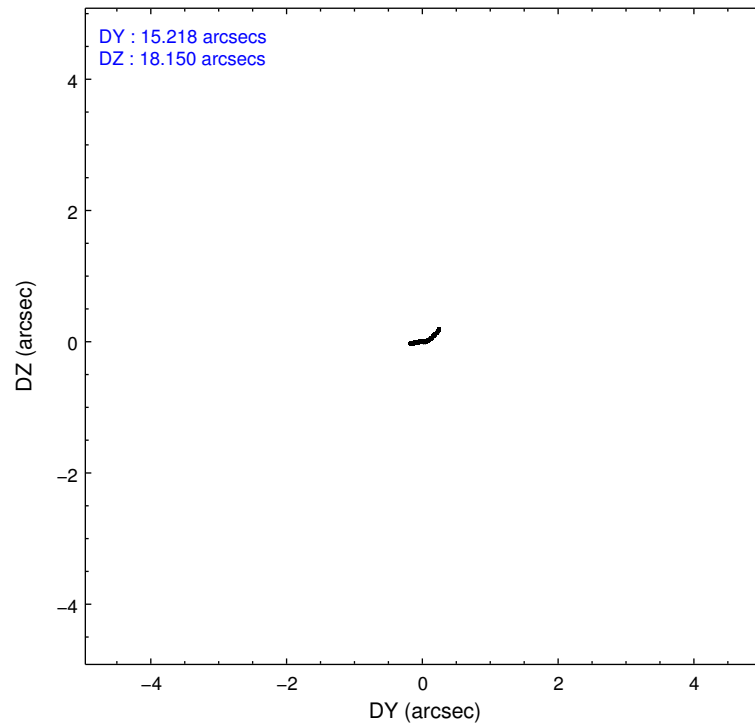
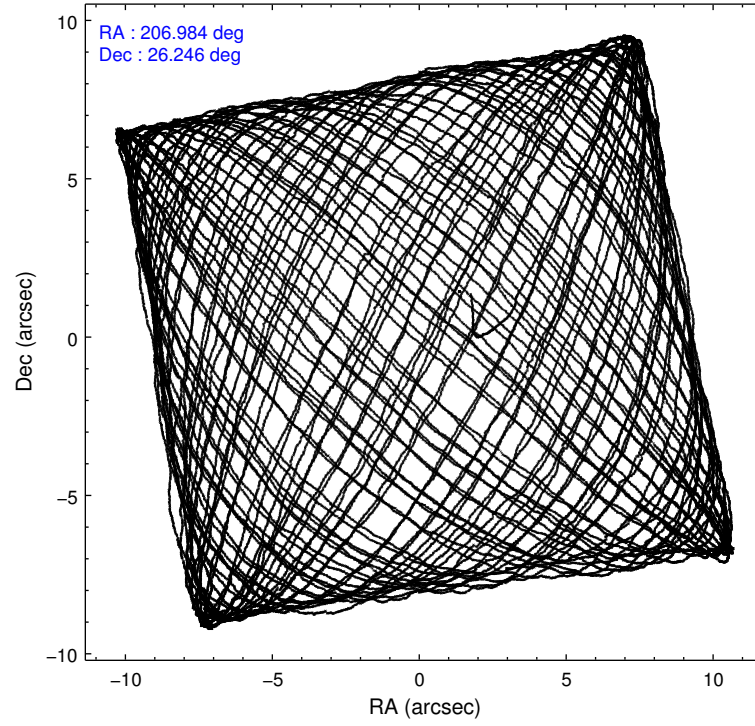
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	229378	239782	251958	248114	250920
rejected events	202231	203947	225863	222488	223196
rejected %	88%	85%	89%	89%	88%

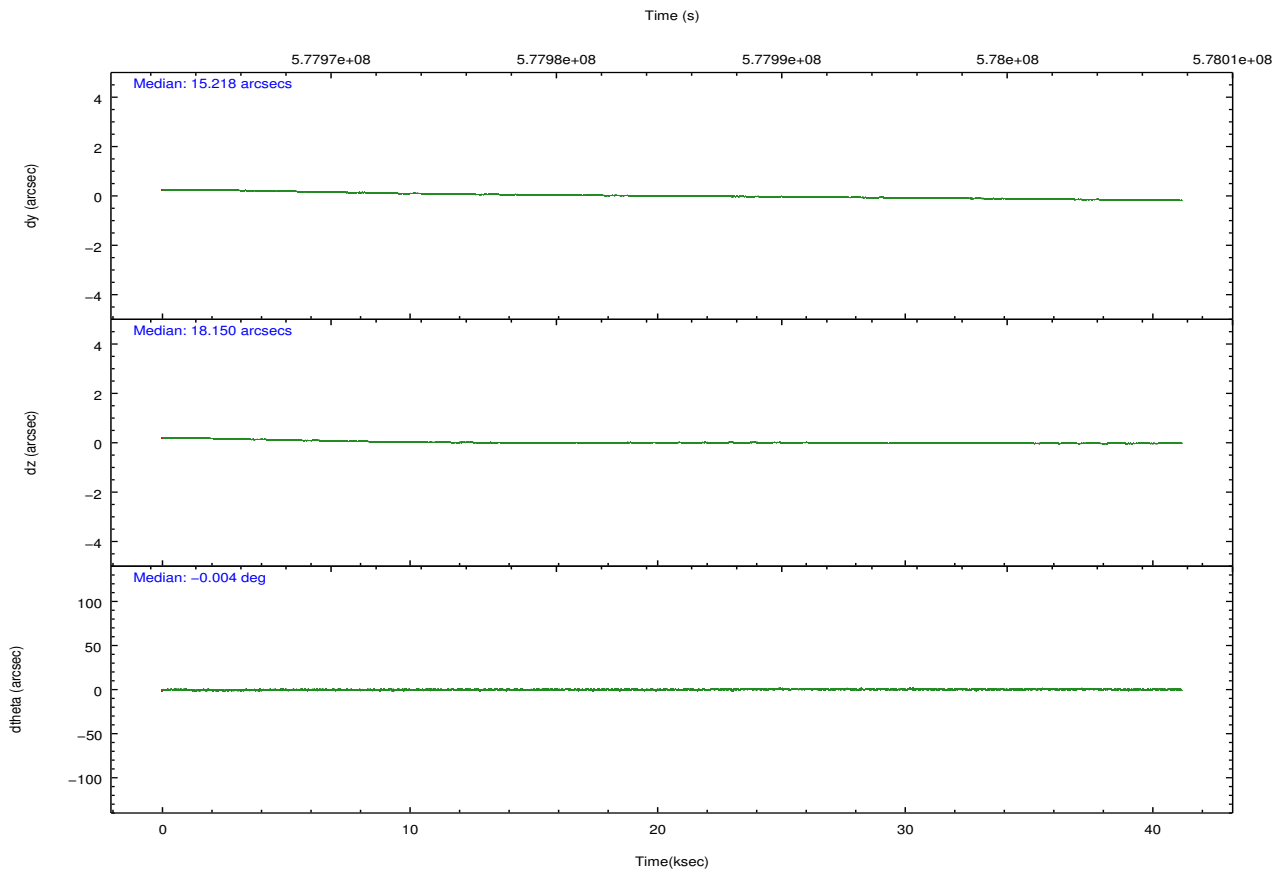
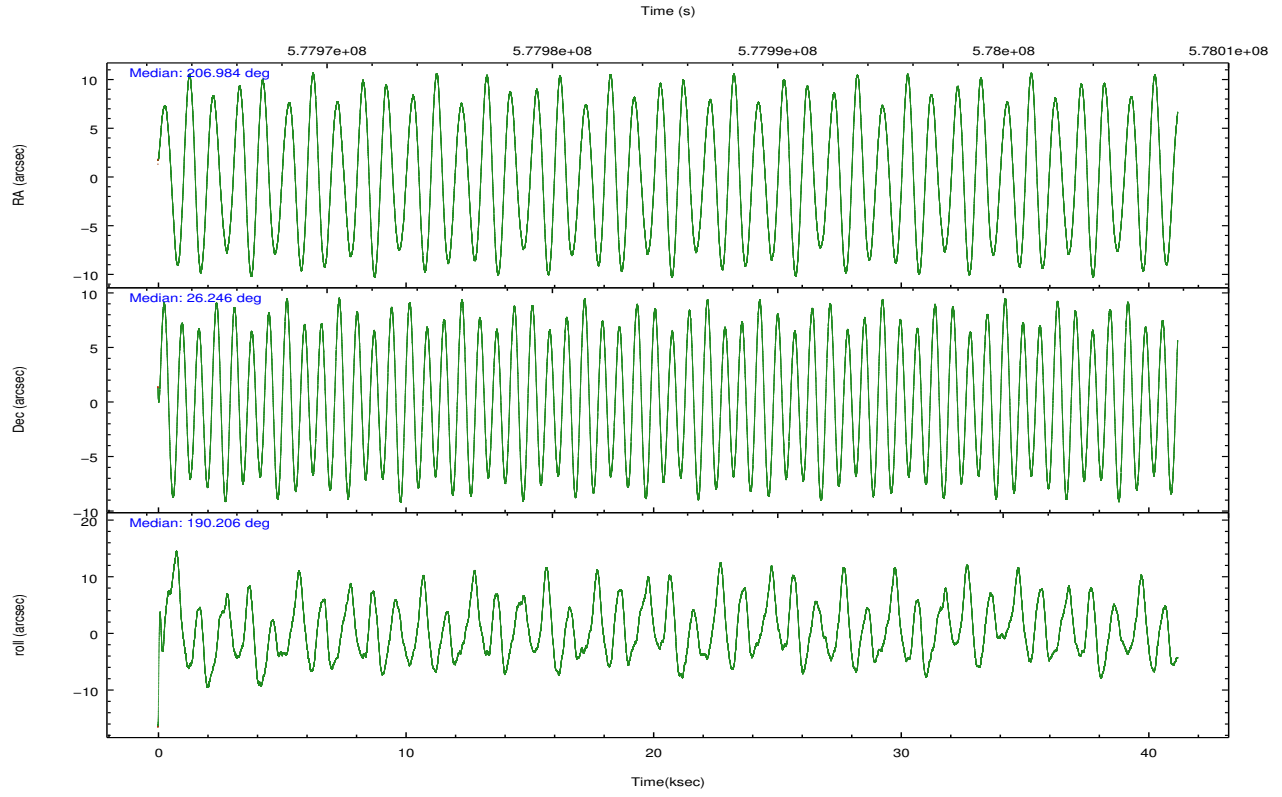
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9053	15947	9295	8881	8745
	3%	6%	3%	3%	3%
grade 1 events	118	152	150	147	103
	0%	0%	0%	0%	0%
grade 2 events	6503	7030	6108	5612	6776
	2%	2%	2%	2%	2%
grade 3 events	2919	2853	2696	2780	2580
	1%	1%	1%	1%	1%
grade 4 events	2723	2787	2655	2708	2540
	1%	1%	1%	1%	1%
grade 5 events	10447	11038	10060	12052	11180
	4%	4%	3%	4%	4%
grade 6 events	5955	7221	5343	5649	7093
	2%	3%	2%	2%	2%
grade 7 events	191660	192754	215651	210285	211903
	83%	80%	85%	84%	84%

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	207.007642	206.9842127656326	CCD I2 on	Y	Y
[deg] Pointing Dec	26.264030	26.24613983094012	CCD I3 on	Y	Y
[deg] Pointing Roll	189.992704	190.2117414954627	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)	577964709.184000	577963964.15583	CCD S5 on	N	N
Observation start date	2016-04-25T09:44:01	2016-04-25T09:32:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	578005709.184000	578006773.28328	On-chip summing requested	N	N
Observation end date	2016-04-25T21:07:21	2016-04-25T21:26:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



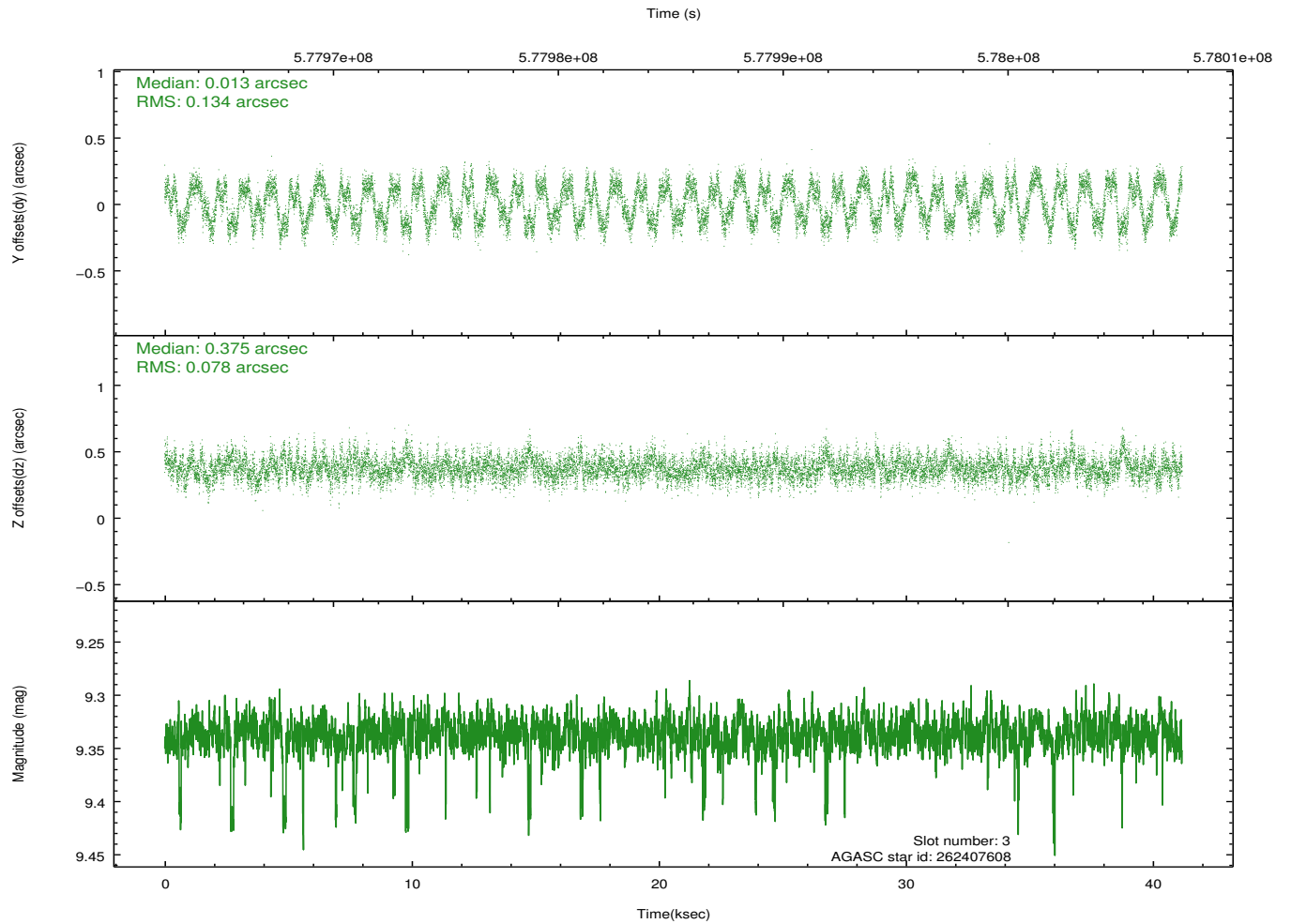
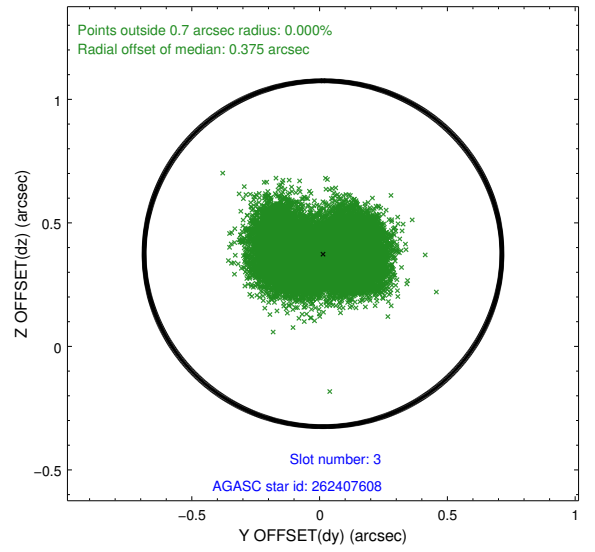
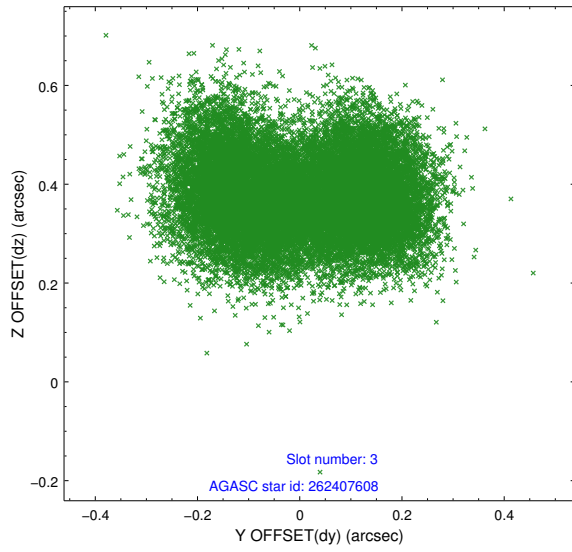


Slot Statistics

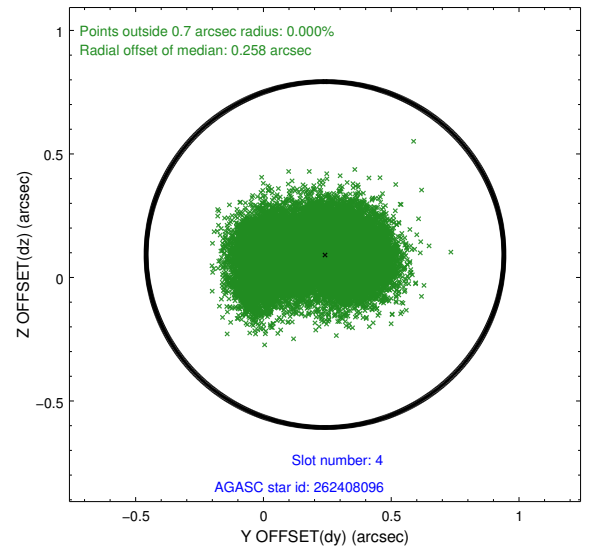
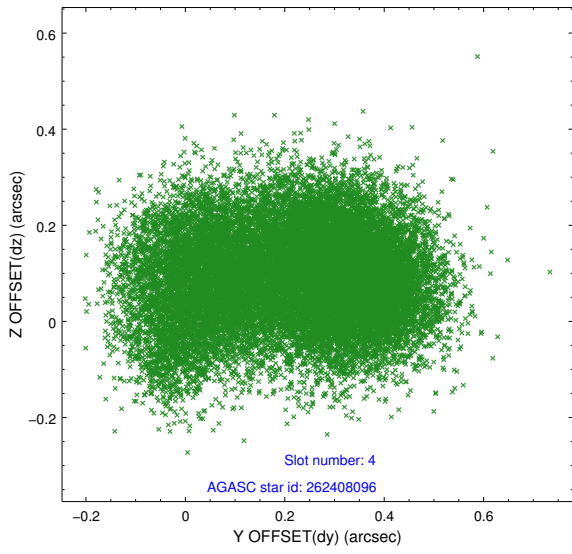
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	10044	0.075	-0.018	0.007	0.013	0.000000	0.000000	924.33	-841.84
1	FID		ACIS-I-5	7.27	10045	-0.356	0.041	0.006	0.011	0.000000	0.000000	-1824.28	1055.59
2	FID		ACIS-I-6	7.27	10045	0.190	0.048	0.008	0.012	0.000000	0.000000	389.87	1700.21
3	GUIDE	used	262407608	9.34	20059	0.013	0.375	0.170	0.250	207.378401	26.435507	-1284.38	-401.50
4	GUIDE	used	262408096	9.33	20073	0.241	0.093	0.199	0.322	207.011678	26.515421	-168.86	-888.92
5	GUIDE	used	262408936	9.64	20059	0.145	0.061	0.216	0.324	207.154731	26.726554	-754.49	-1557.46
6	GUIDE	used	262411960	9.61	20005	-0.000	-0.053	0.255	0.405	207.327895	25.881727	-782.91	1534.28
7	GUIDE	used	262414584	6.10	20091	-0.413	-0.465	0.109	0.165	206.680511	25.702236	1395.90	1807.39

2.4 Star Slots

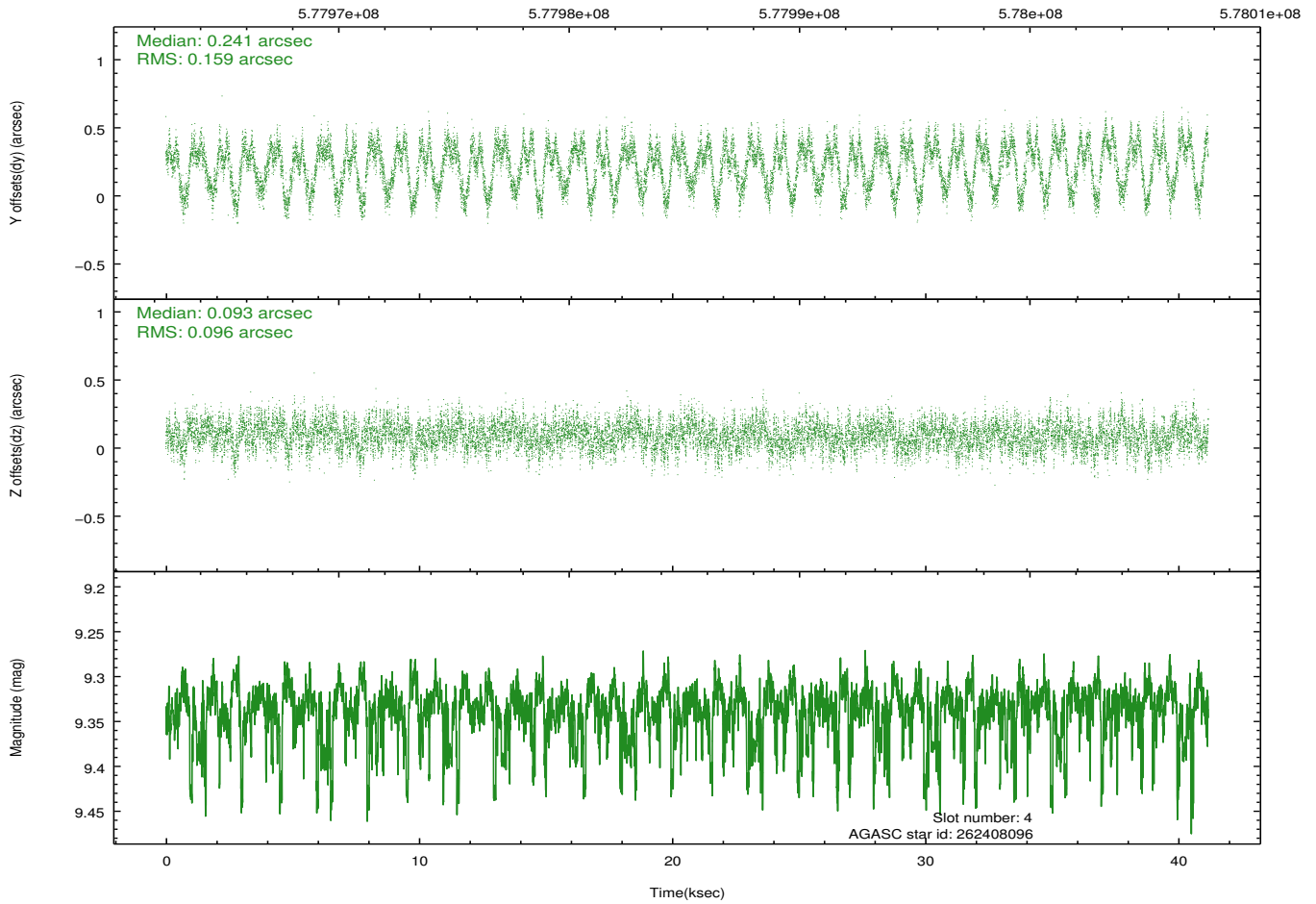
2.4.1 Slot 3



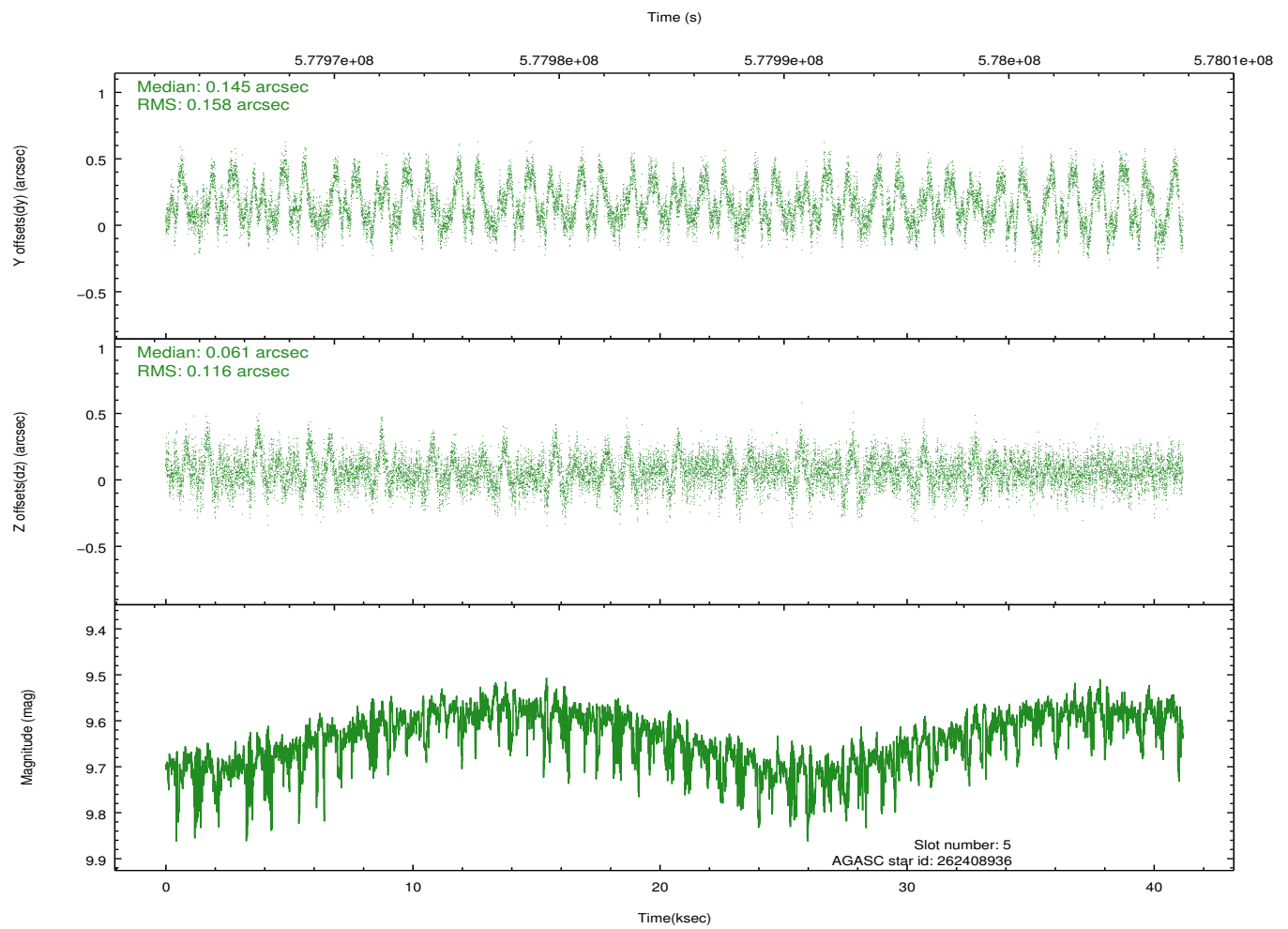
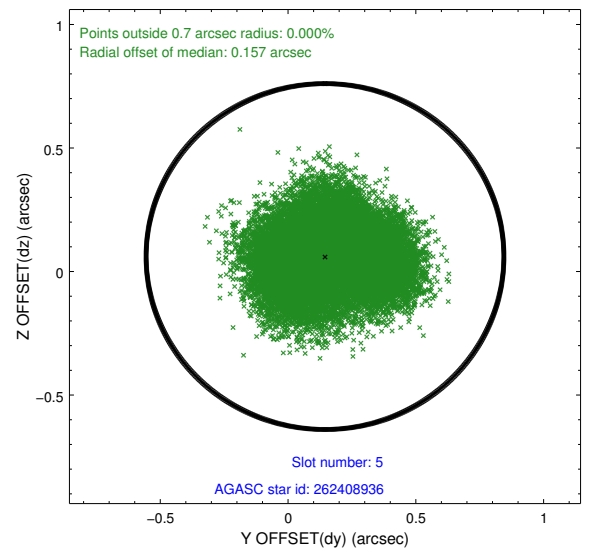
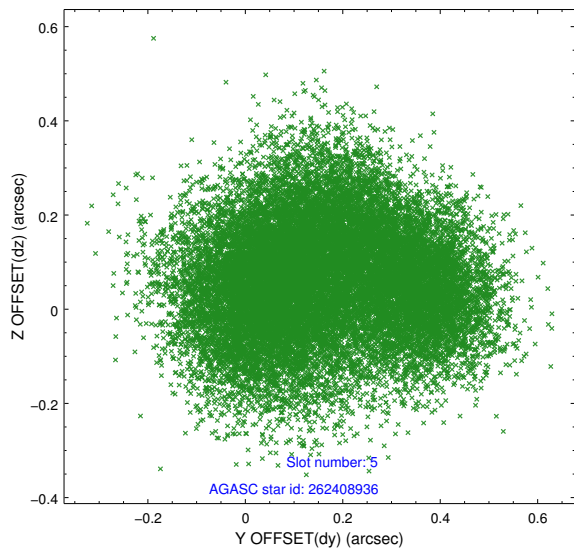
2.4.2 Slot 4



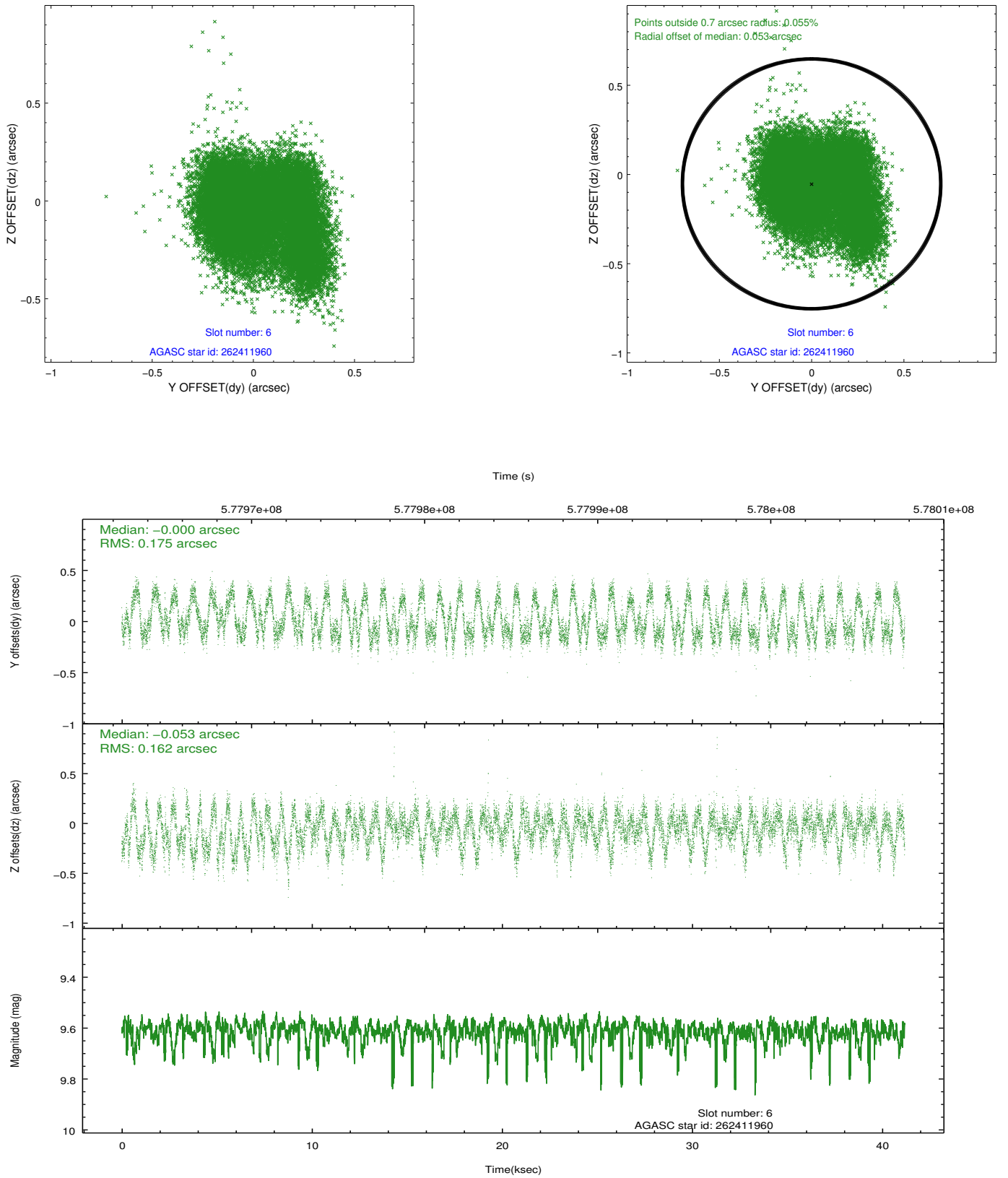
Time (s)



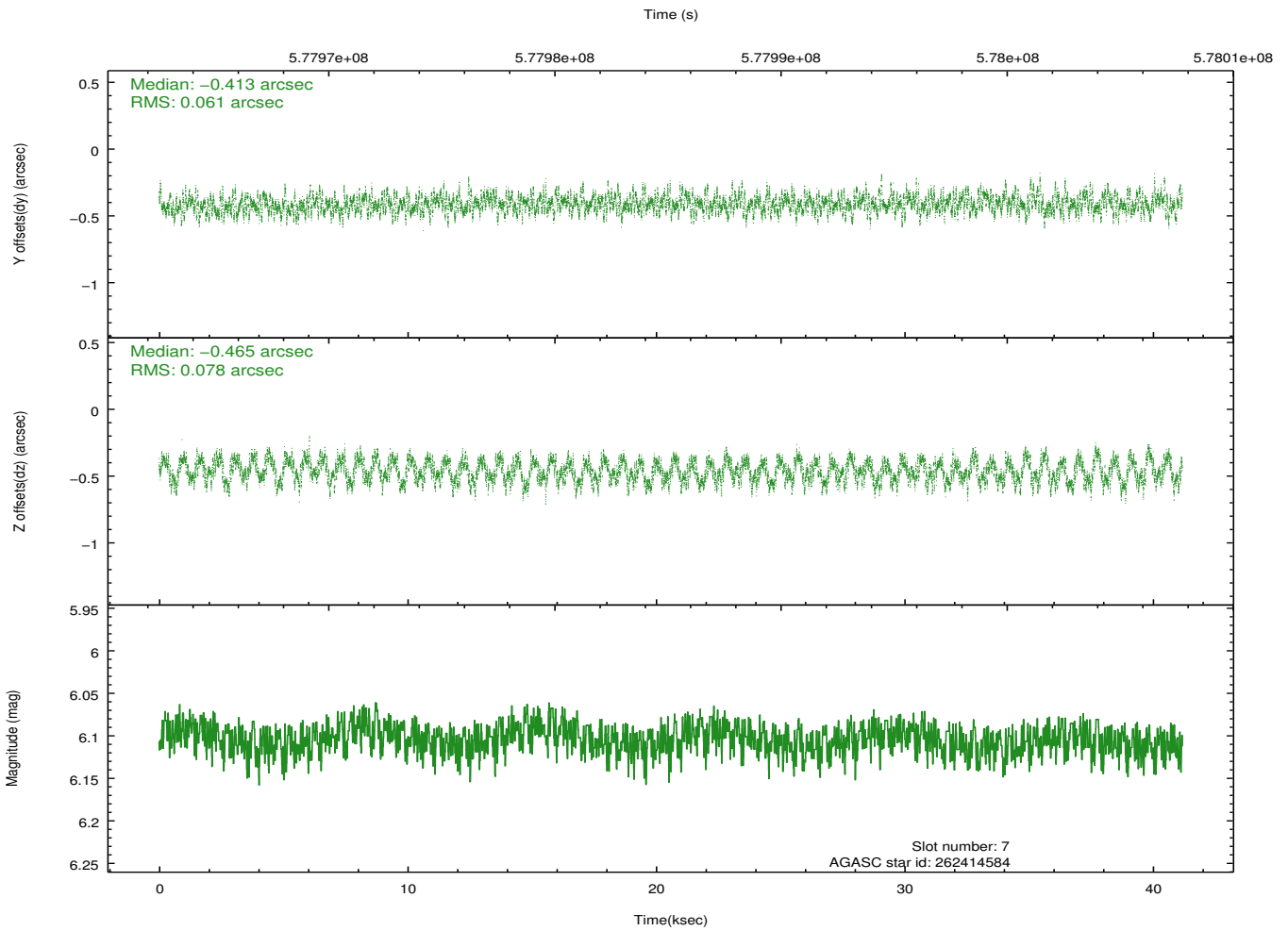
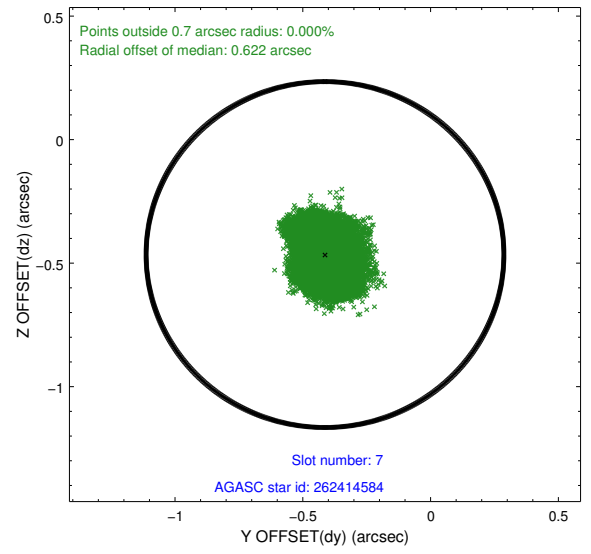
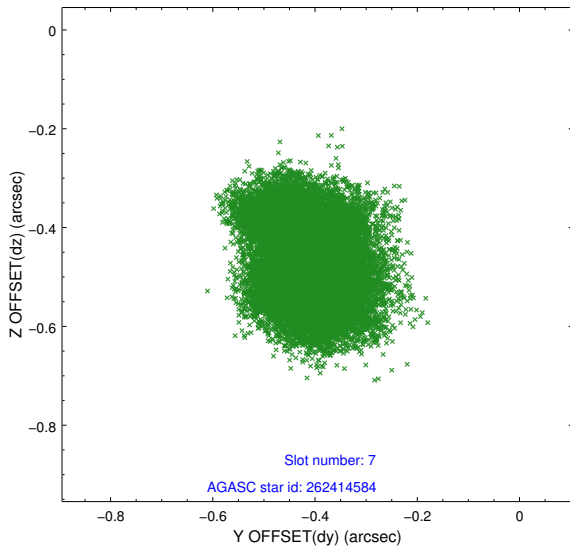
2.4.3 Slot 5



2.4.4 Slot 6

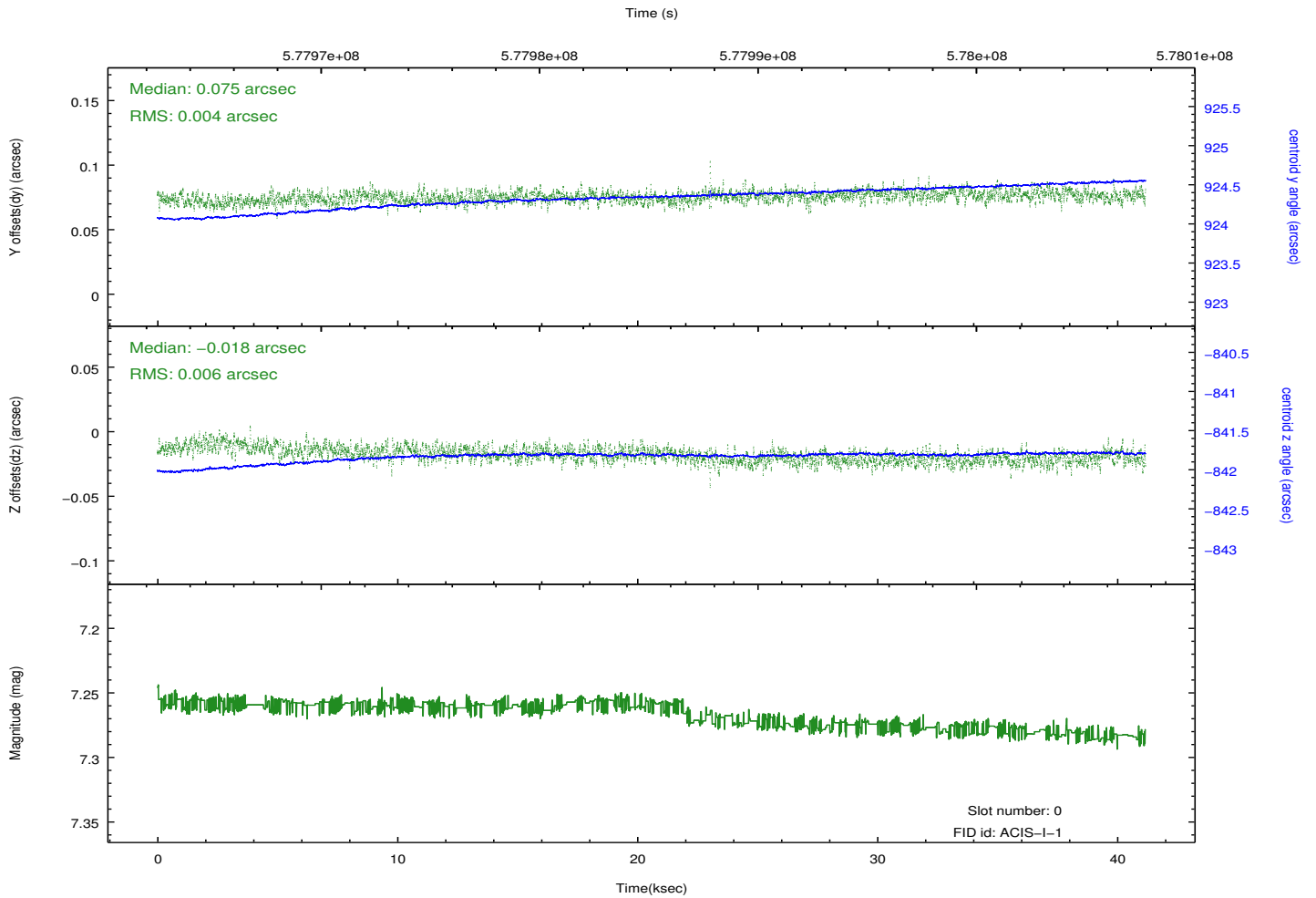
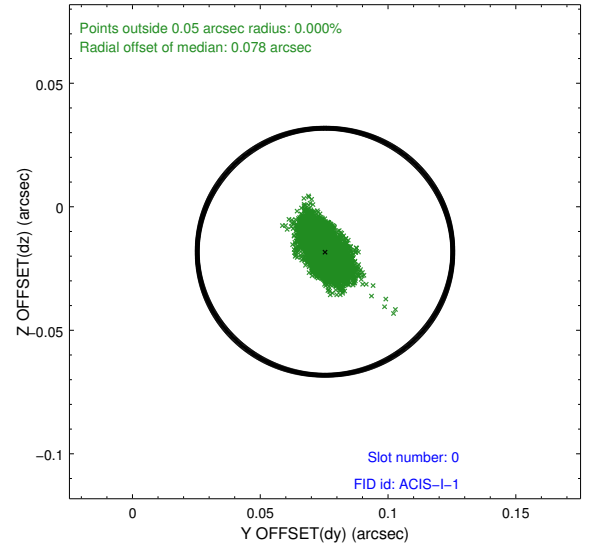
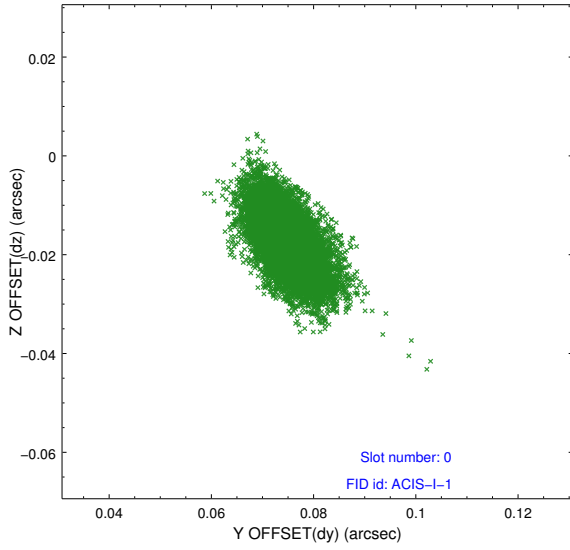


2.4.5 Slot 7

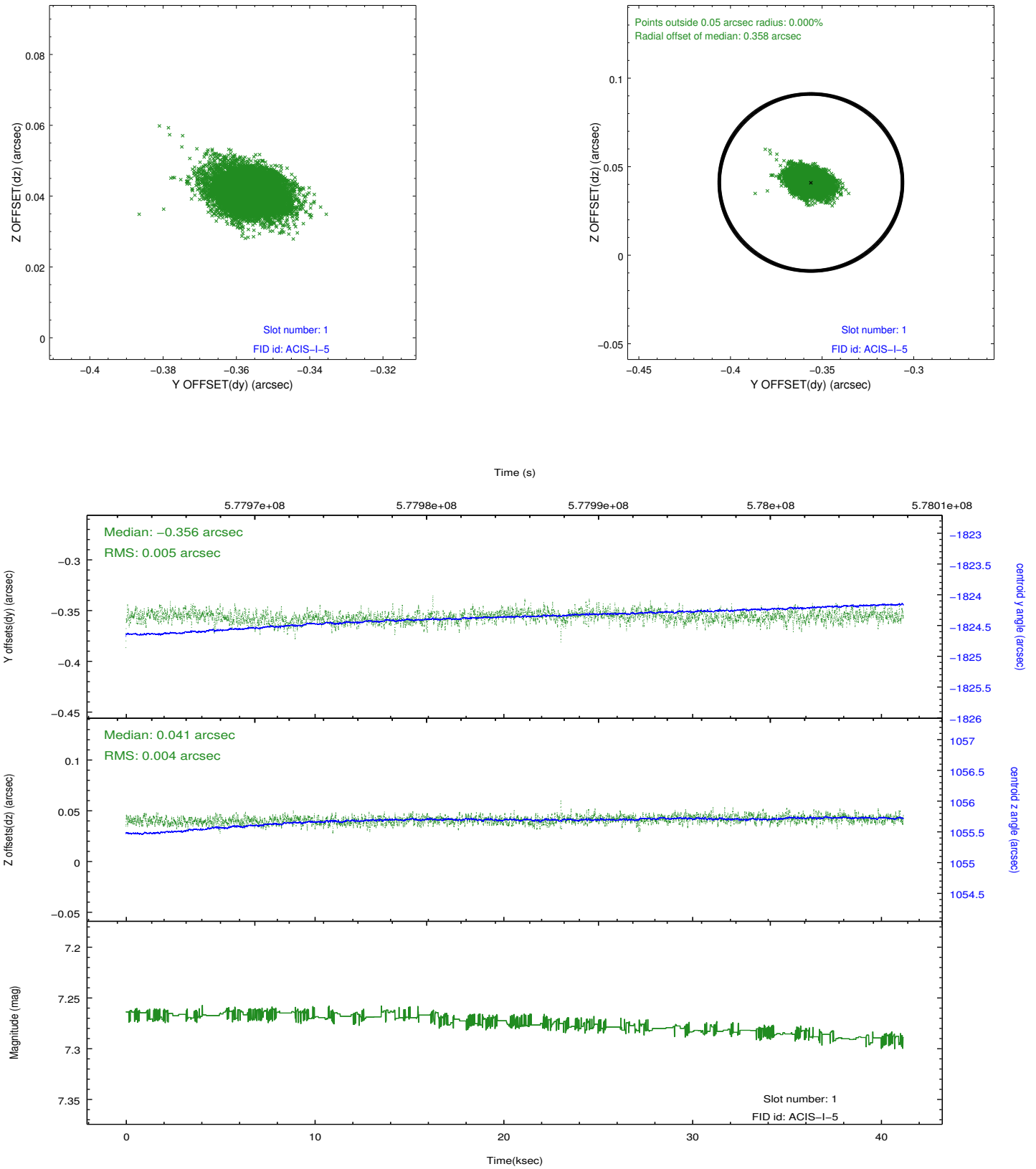


2.5 FID Slots

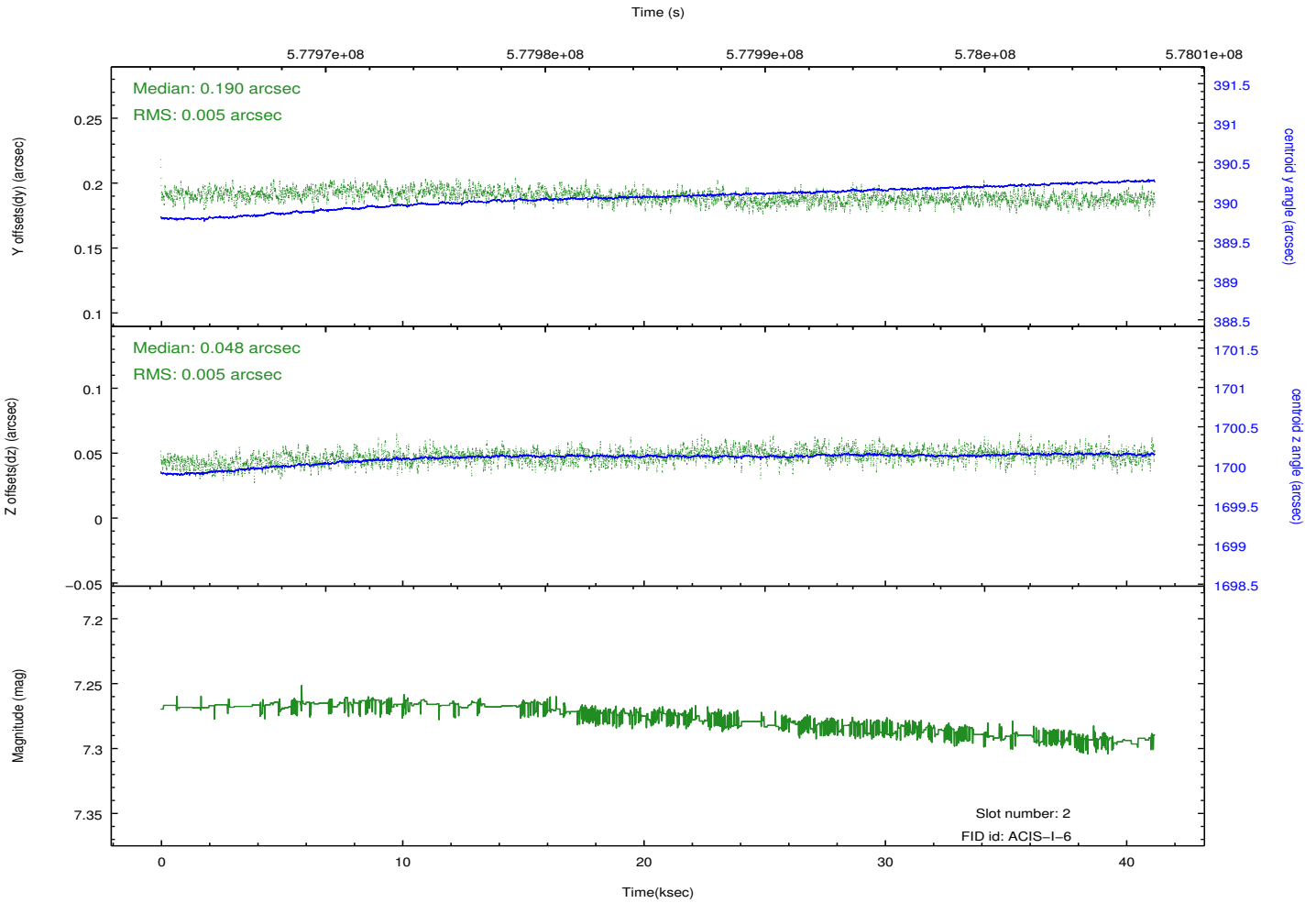
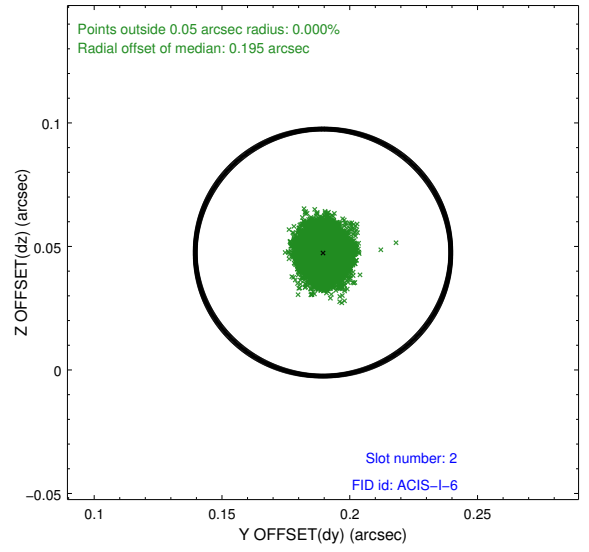
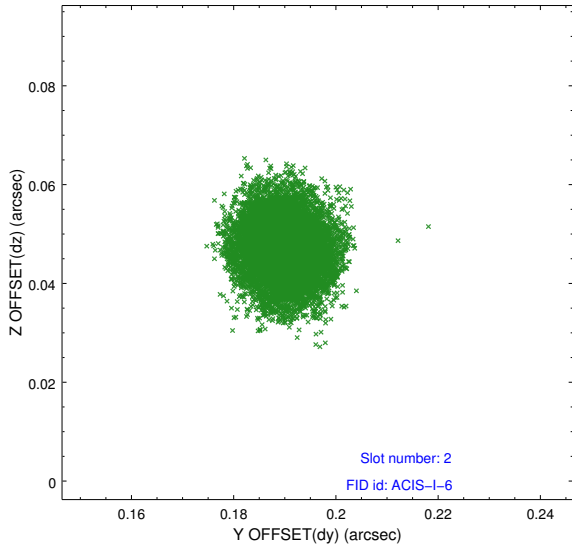
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.768059233427

A.2 Comments