

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18469 - L2 Version 1
Chandra X-Ray Center

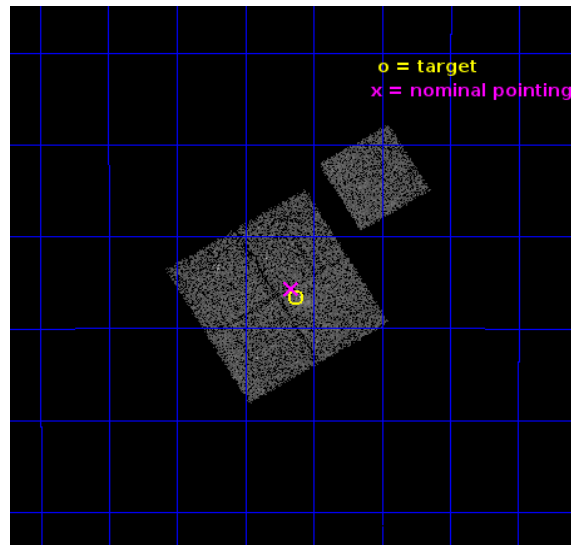
L2 Processing Date : Mar 10 2016

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1 Front

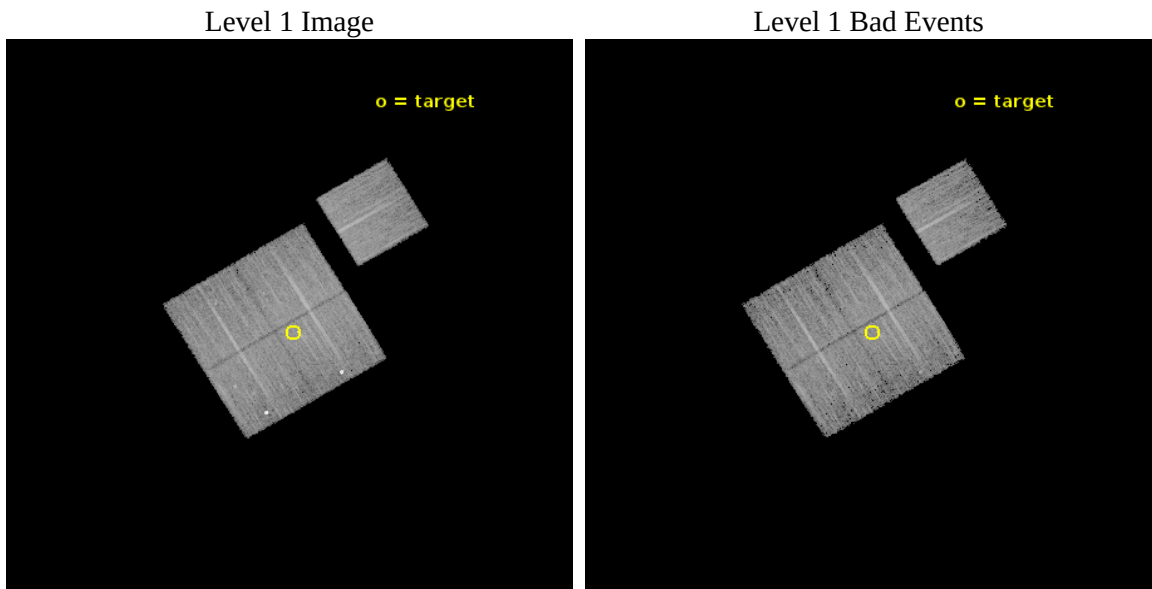
seq_num	801628	Sequence number
obs_id	18469	Observation id
title	Powerful radio galaxies in clusters: completing the sample	Proposa
observer	Dr. Stephen Murray	Principal investigator
object	MACSJ1331.5-1736	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.907917	Observer's specified target RA [deg]
dec_targ	-17.611944	Observer's specified target Dec [deg]
ra_nom	202.91558034262	Nominal RA [deg]
dec_nom	-17.594820420283	Nominal Dec [deg]
roll_nom	58.966221712395	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10071.900077581	Sum of GTIs [s]
livetime	9940.3032882428	Livetime [s]
ontime0	10071.900077581	Sum of GTIs [s]
ontime1	10071.900077581	Sum of GTIs [s]
ontime2	10071.900077581	Sum of GTIs [s]
ontime3	10071.900077581	Sum of GTIs [s]
ontime6	10071.900077581	Sum of GTIs [s]
l2events	30920	Number of level 2 events



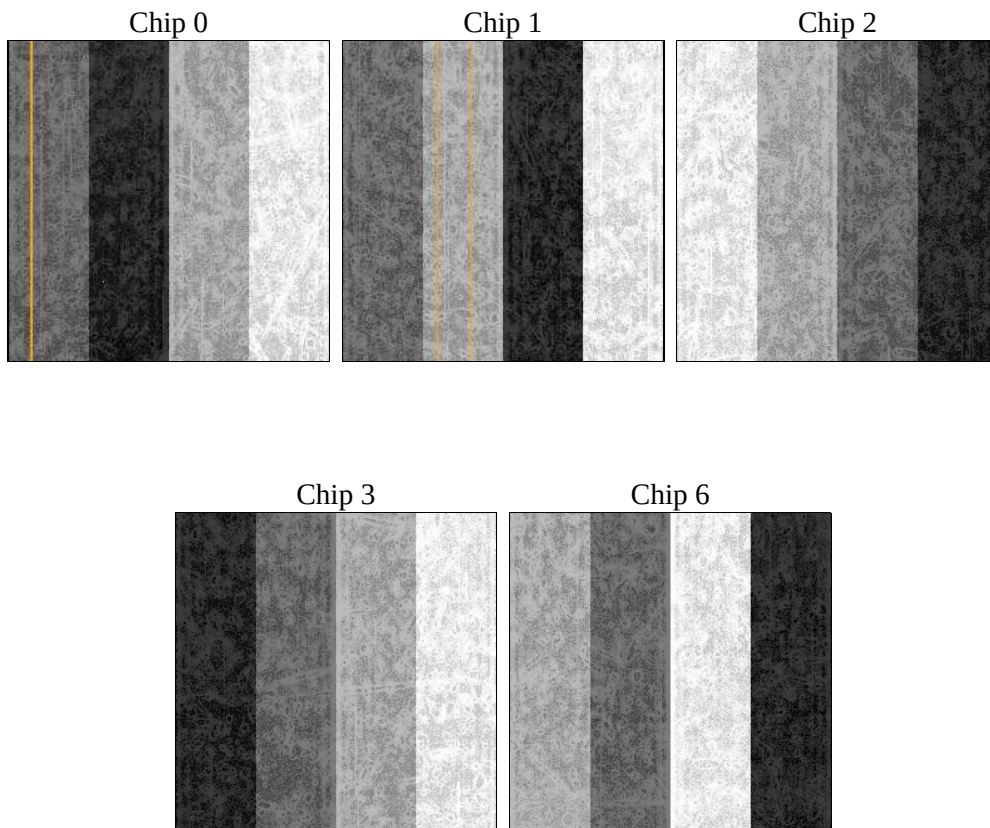
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	10071.900077581	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	10071.900077581	Sum of GTIs [s]
date	2016-03-10T21:29:57	Date and time of file creation	ontime1	10071.900077581	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10071.900077581	Sum of GTIs [s]
			ontime3	10071.900077581	Sum of GTIs [s]
			ontime6	10071.900077581	Sum of GTIs [s]
			l1events	321130	Number of level 1 events

2.1.4 Events

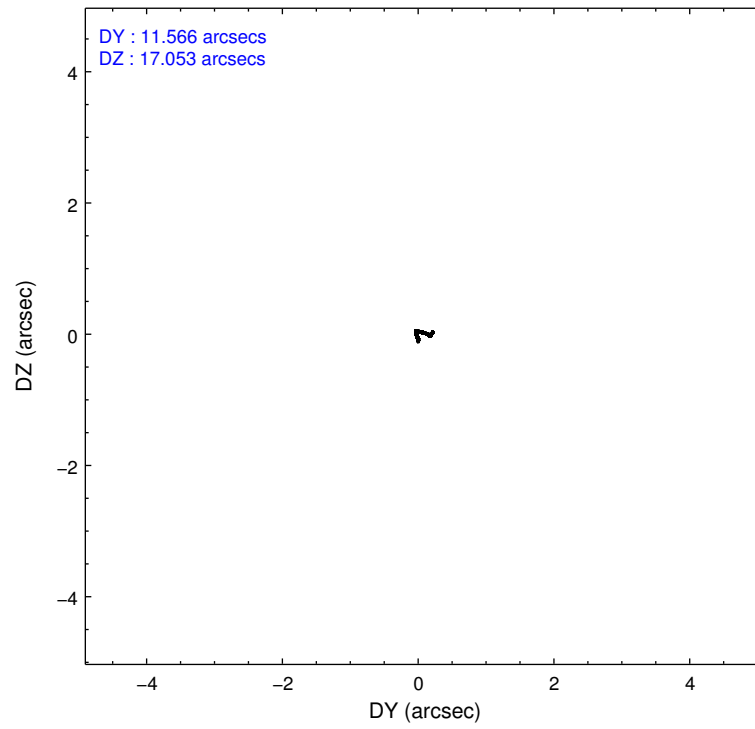
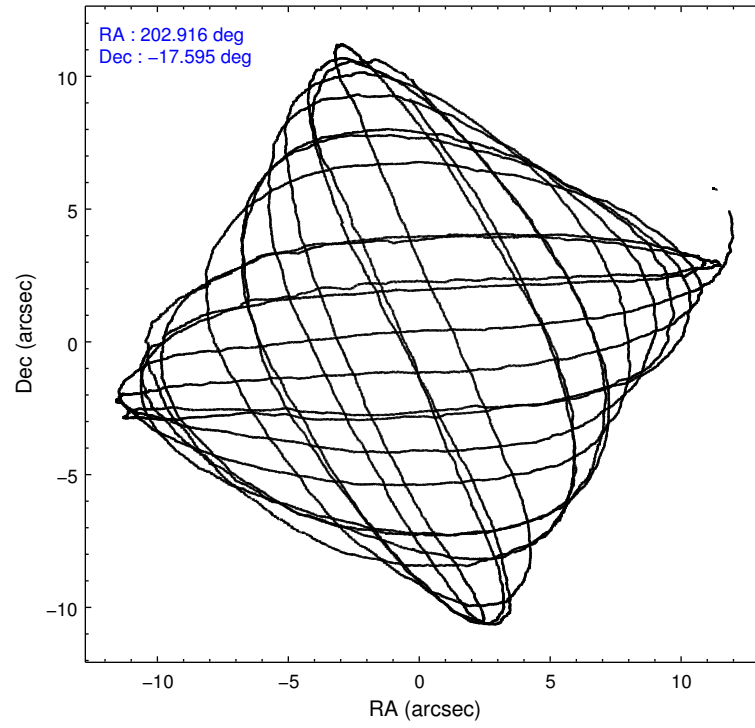
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	59562	63410	66908	66826	64424
rejected events	52358	52572	60100	56520	57383
rejected %	87%	82%	89%	84%	89%

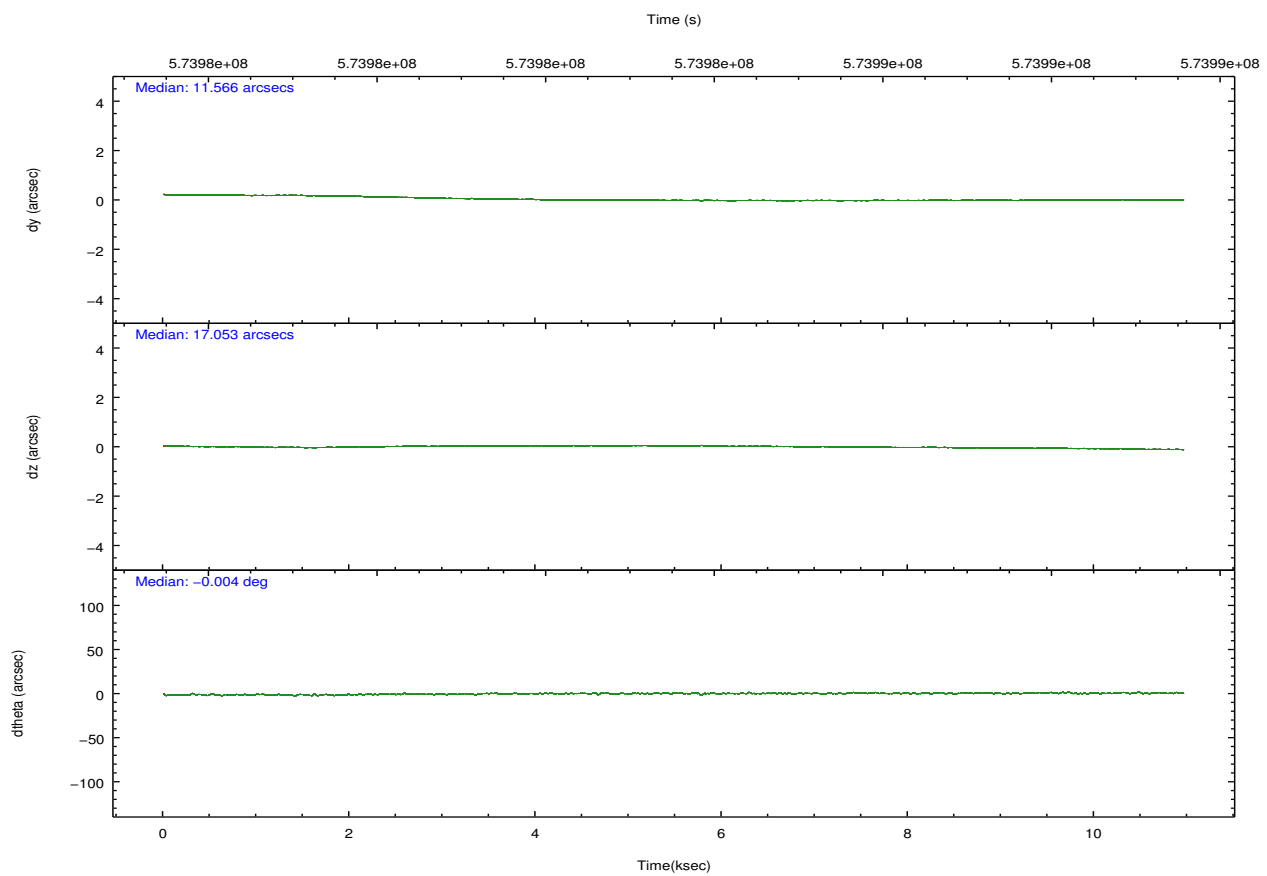
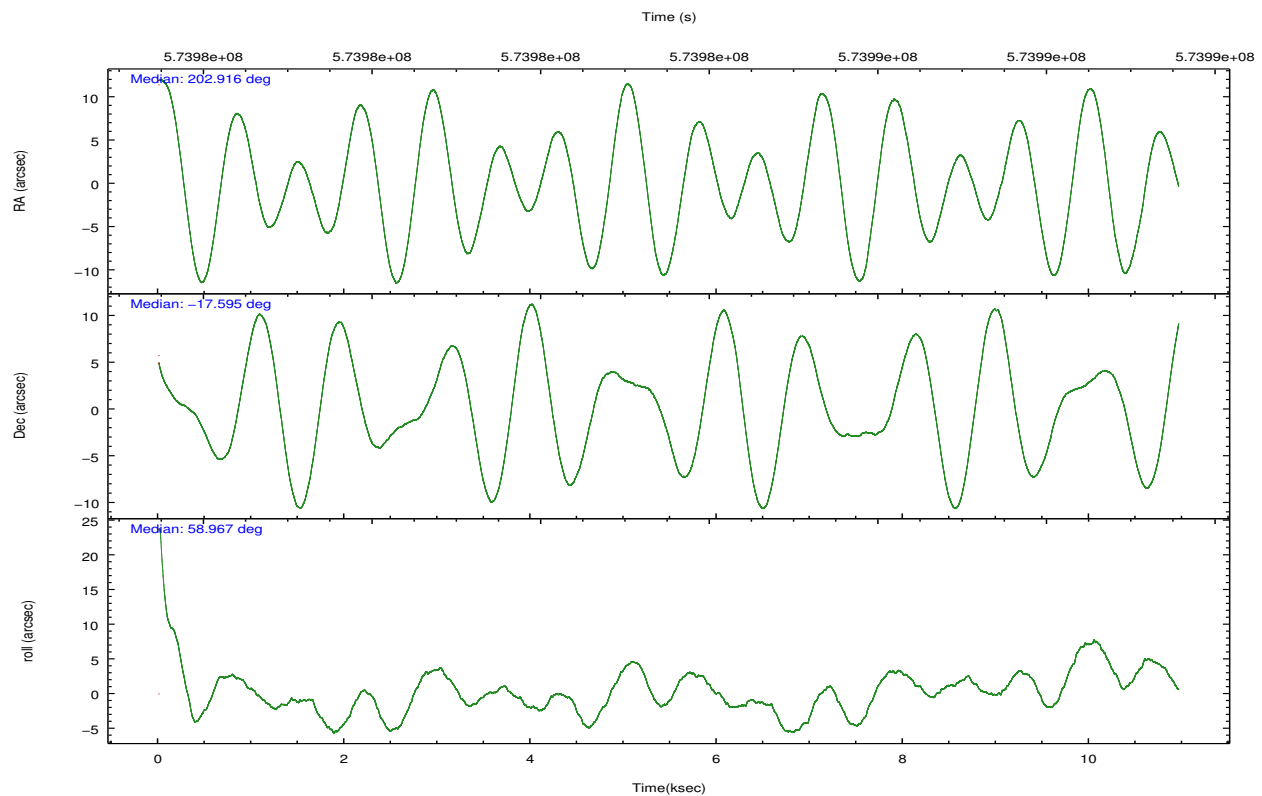
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2419	5805	2516	3079	2227
	4%	9%	3%	4%	3%
grade 1 events	26	50	37	60	31
	0%	0%	0%	0%	0%
grade 2 events	1714	1815	1627	4167	1750
	2%	2%	2%	6%	2%
grade 3 events	759	699	706	736	668
	1%	1%	1%	1%	1%
grade 4 events	692	725	643	794	646
	1%	1%	0%	1%	1%
grade 5 events	2758	2906	2568	3068	2791
	4%	4%	3%	4%	4%
grade 6 events	1628	1799	1317	1534	1750
	2%	2%	1%	2%	2%
grade 7 events	49566	49611	57494	53388	54561
	83%	78%	85%	79%	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	202.915155	202.9155803426154	CCD I2 on	Y	Y
[deg] Pointing Dec	-17.622401	-17.59482042028311	CCD I3 on	Y	Y
[deg] Pointing Roll	58.757388	58.96622171239507	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	-230.667463	-230.6708287110191	CCD S3 on	N	N
[mm] SIM translation stage offset	-2.925	-2.921624291910604	CCD S4 on	N	N
[s] Observation start time (MET)	573979017.184000	573977242.31565	CCD S5 on	N	N
Observation start date	2016-03-10T06:35:49	2016-03-10T06:07:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	573989017.184000	573989740.14136	On-chip summing requested	N	N
Observation end date	2016-03-10T09:22:29	2016-03-10T09:35:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



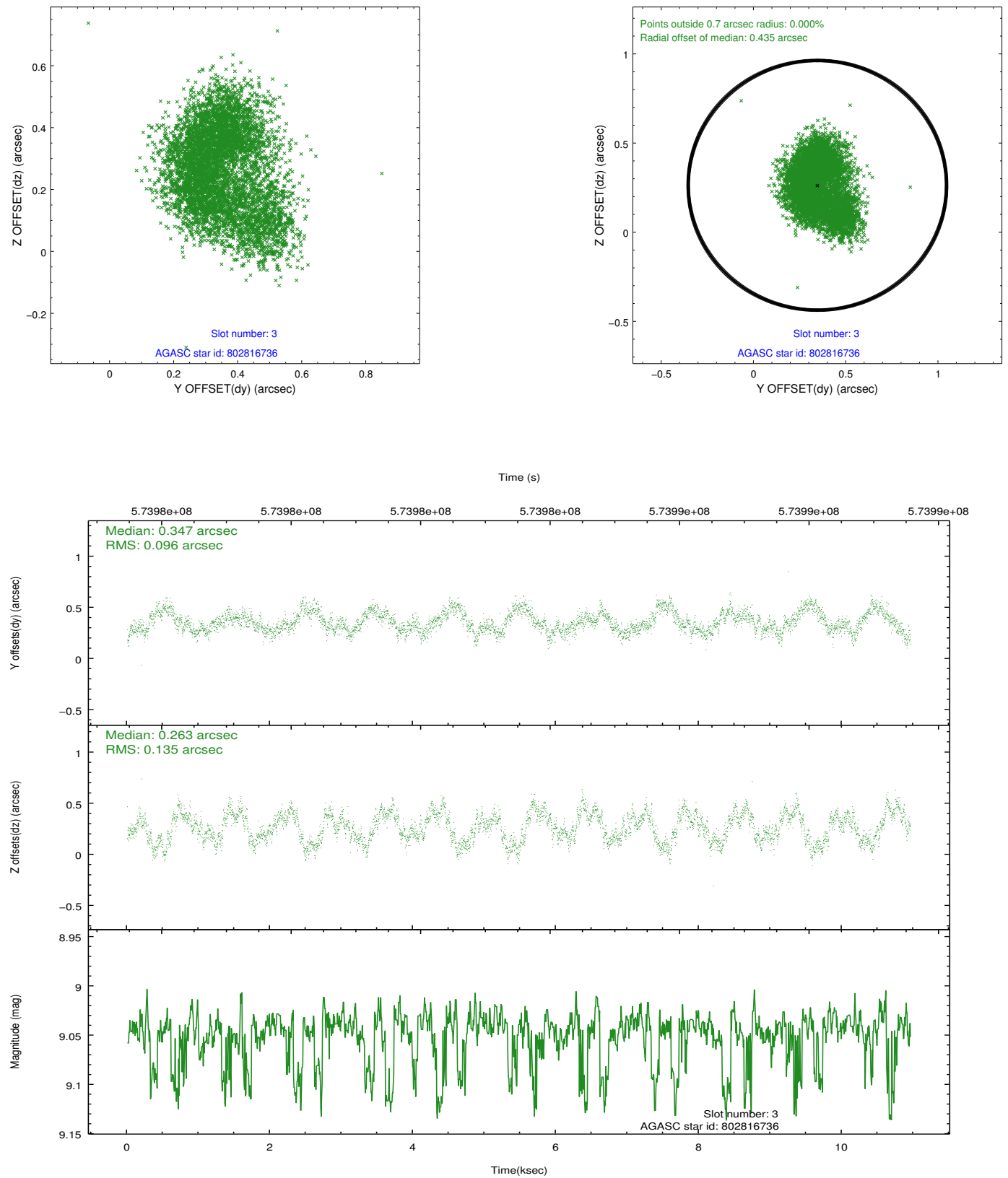


Slot Statistics

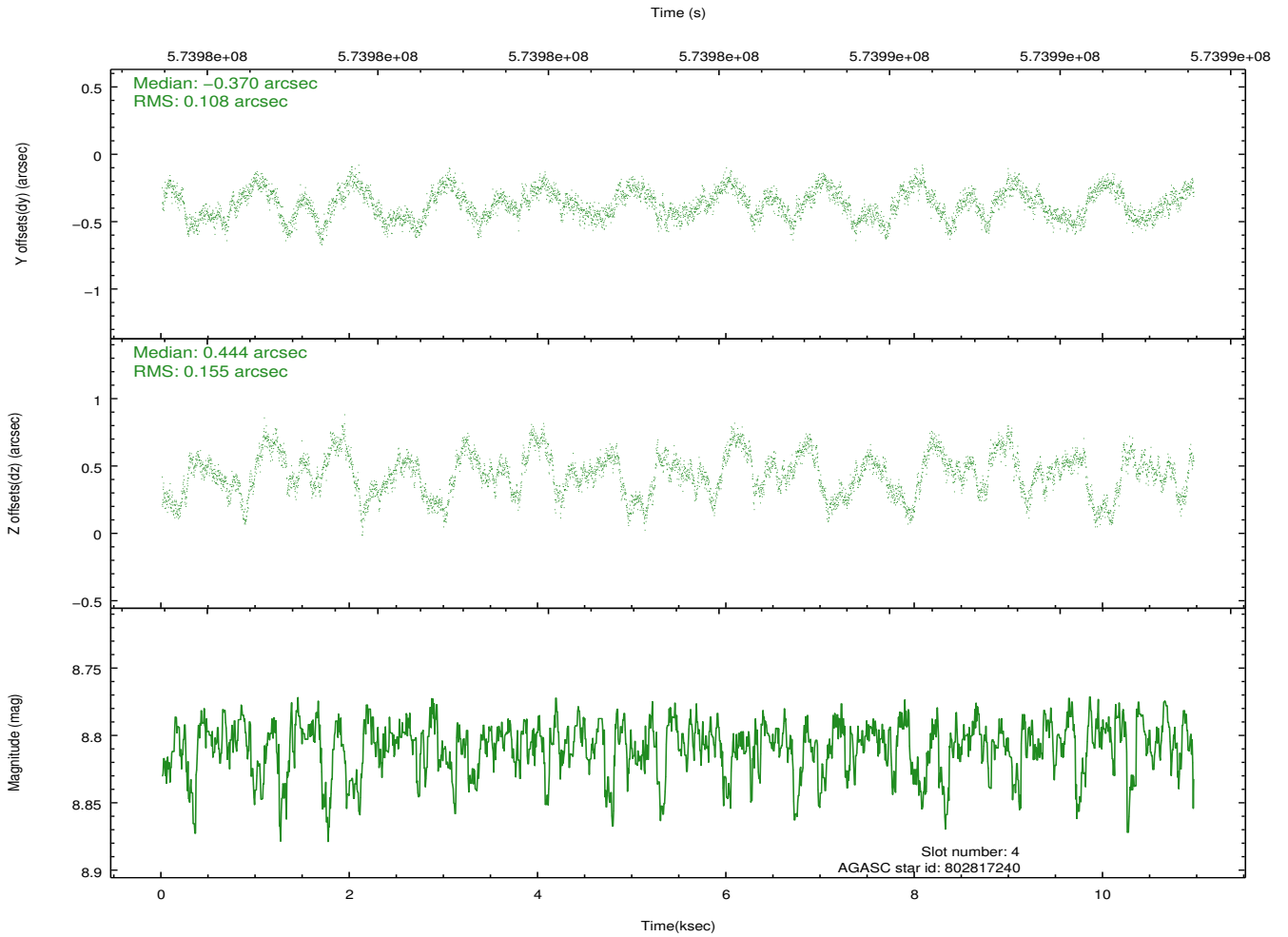
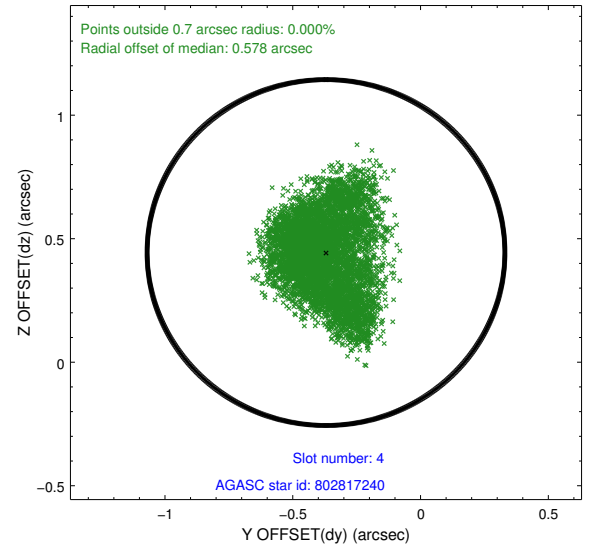
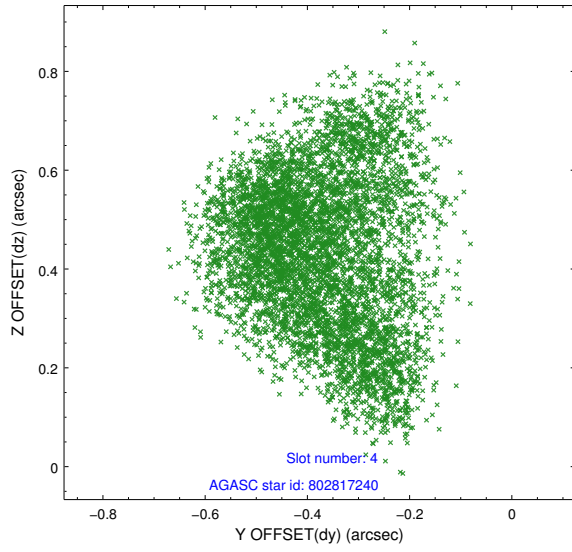
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	2673	0.121	-0.063	0.007	0.012	0.000000	0.000000	928.04	-900.65
1	FID		ACIS-I-5	7.25	2673	-0.338	0.087	0.006	0.011	0.000000	0.000000	-1820.32	996.64
2	FID		ACIS-I-6	7.26	2673	0.126	0.047	0.007	0.012	0.000000	0.000000	393.00	1641.71
3	GUIDE	used	802816736	9.05	5339	0.347	0.263	0.178	0.275	203.176812	-18.029369	-787.93	-1525.45
4	GUIDE	used	802817240	8.81	5345	-0.370	0.444	0.205	0.315	203.010877	-17.569303	333.56	-181.32
5	GUIDE	used	802818456	9.53	5335	0.469	-0.222	0.237	0.379	202.842962	-18.066806	-1496.95	-616.98
6	GUIDE	used	802820992	9.02	5339	-0.129	-0.080	0.166	0.252	203.609099	-17.351205	2067.70	-1534.56
7	GUIDE	used	802821584	8.62	5334	-0.322	-0.405	0.107	0.165	203.074137	-16.971712	2286.92	747.25

2.4 Star Slots

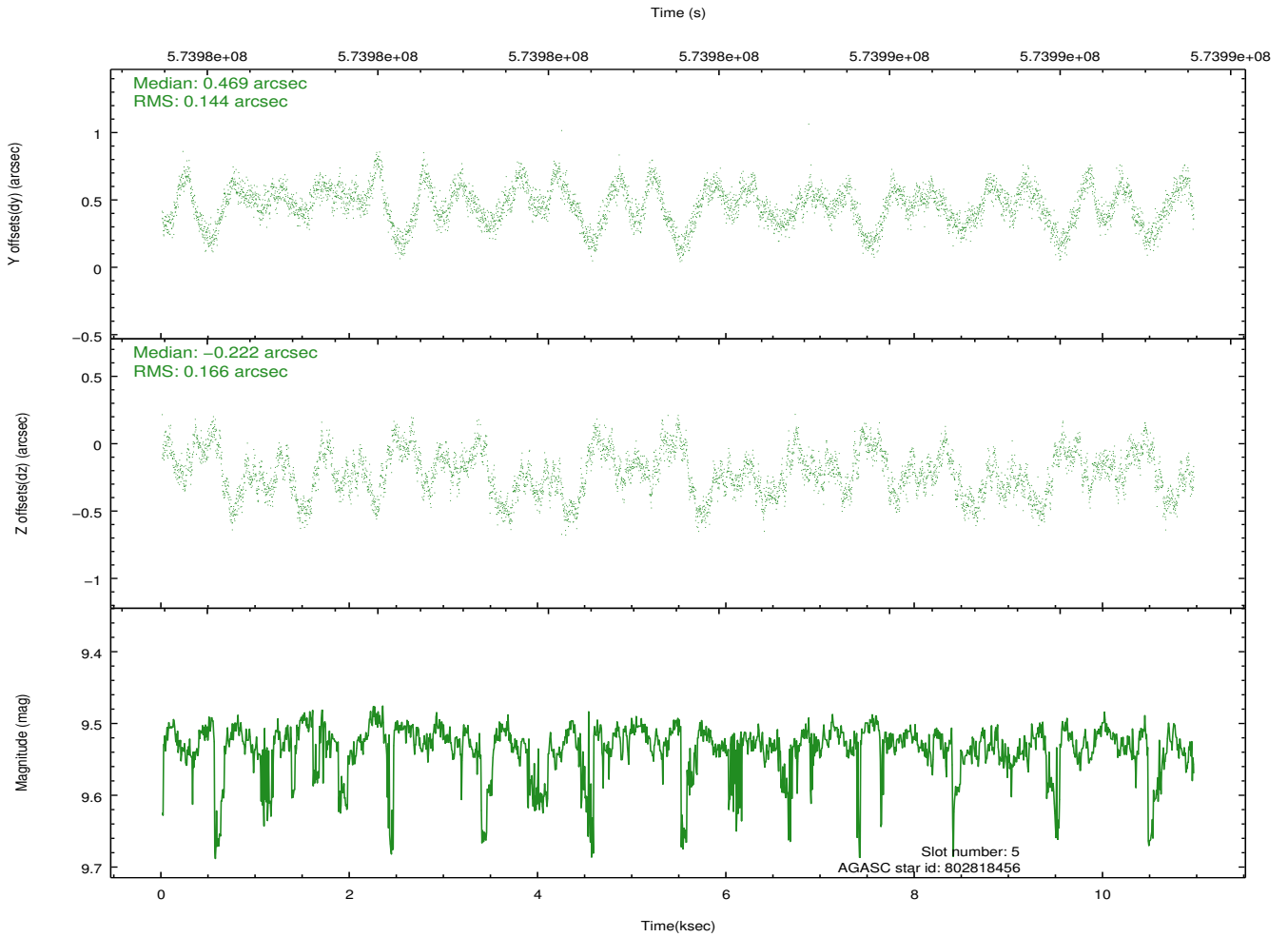
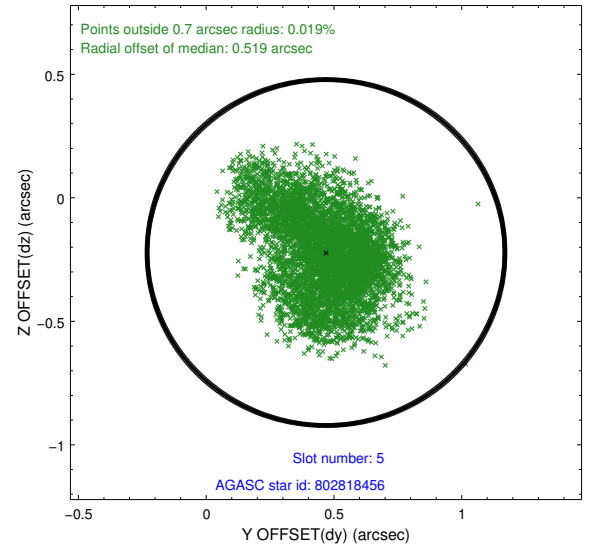
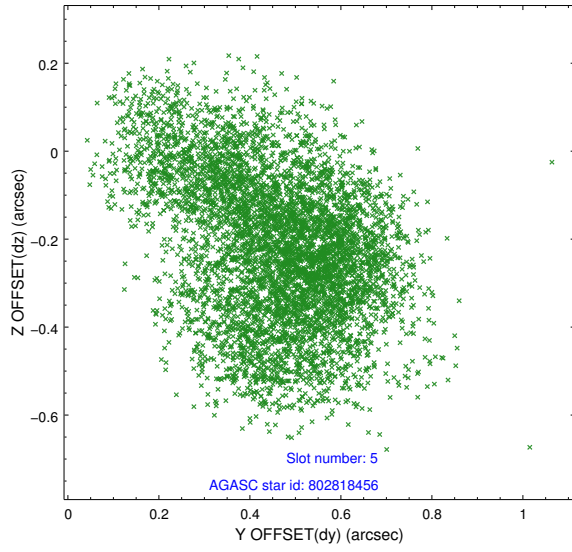
2.4.1 Slot 3



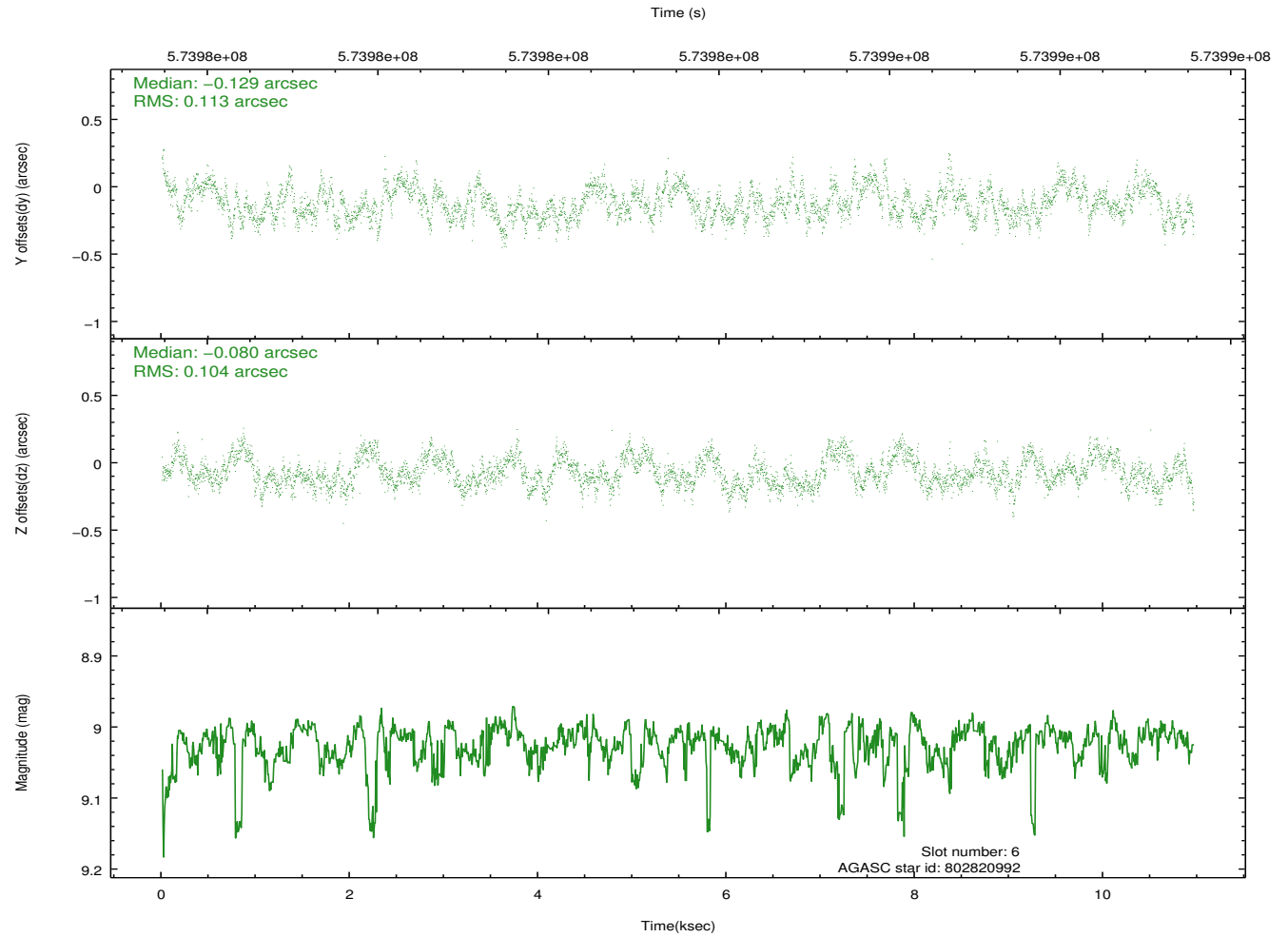
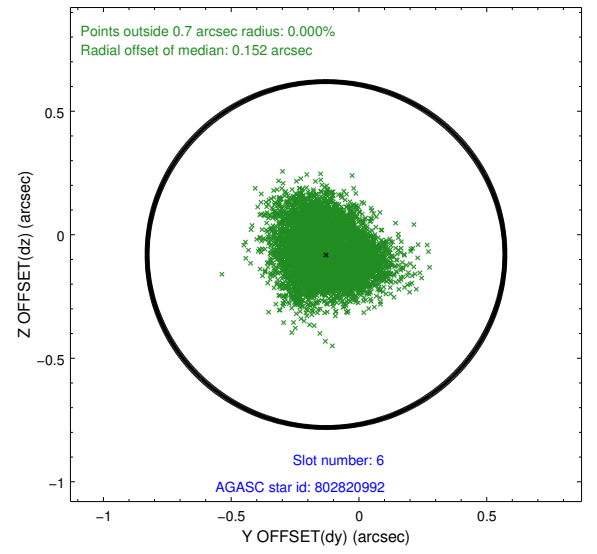
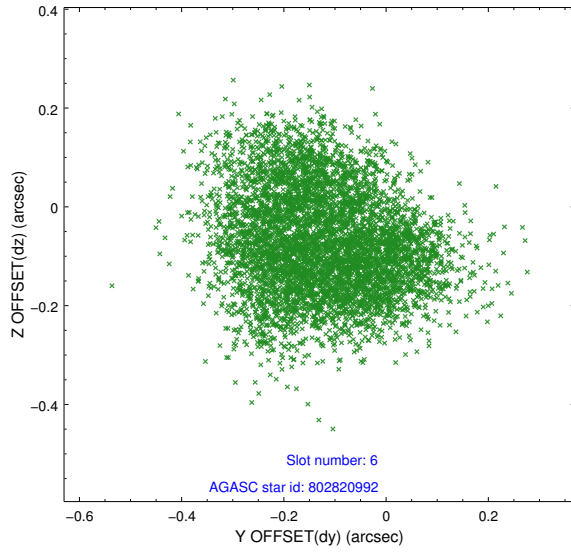
2.4.2 Slot 4



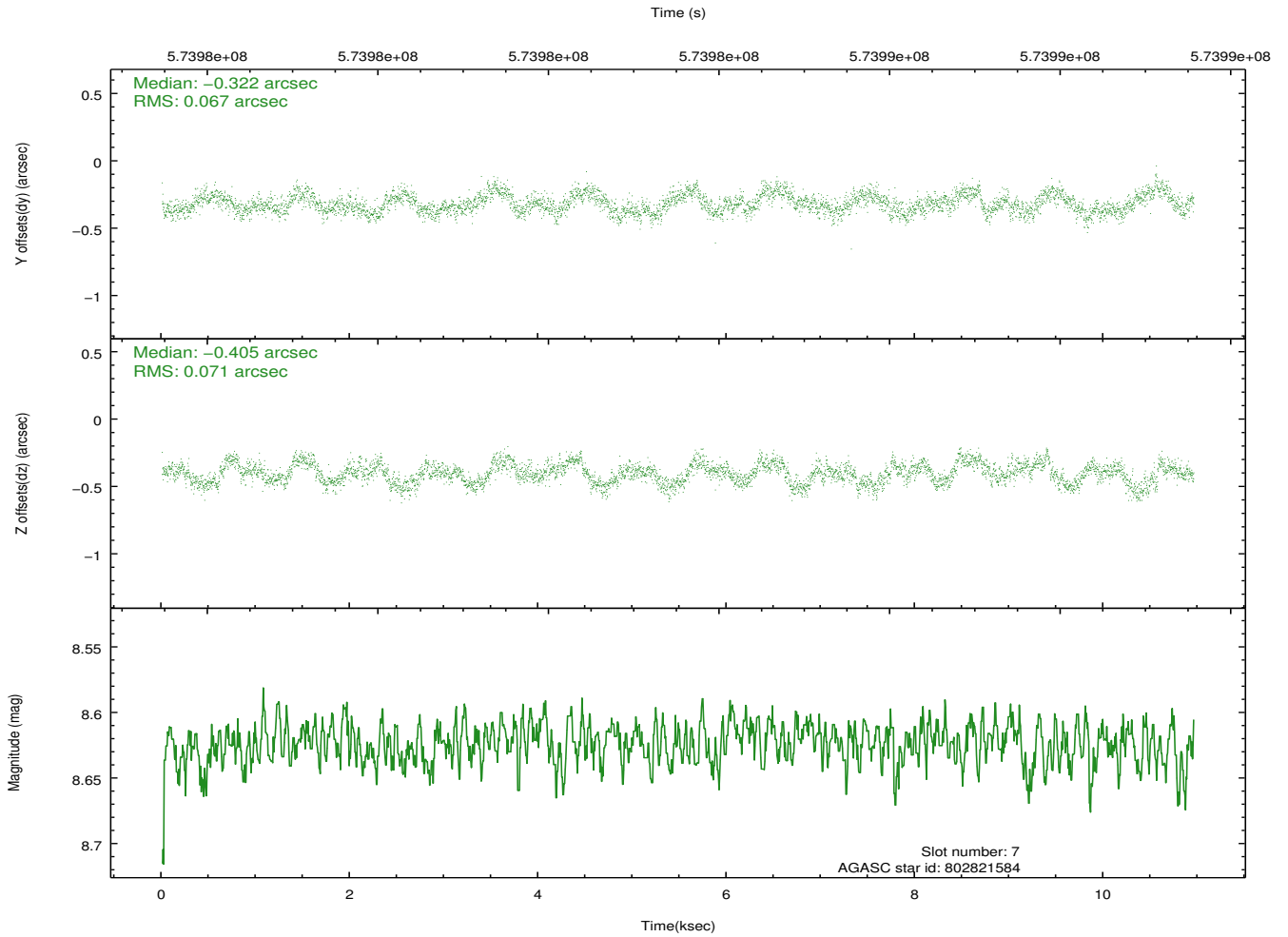
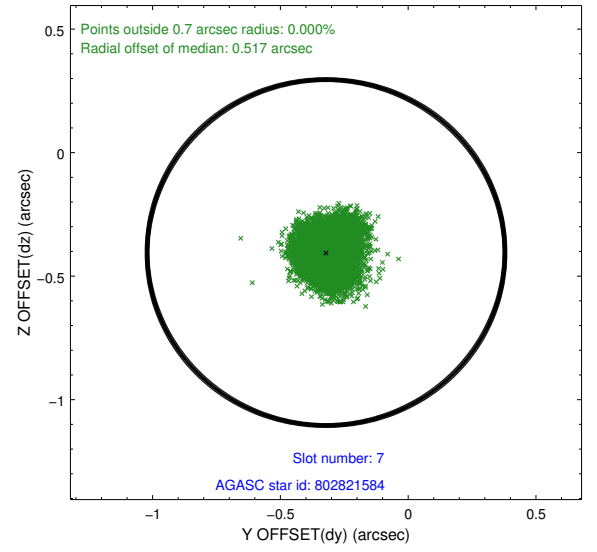
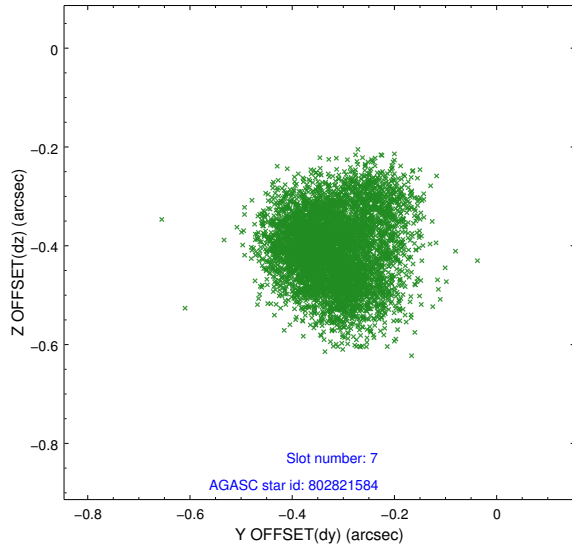
2.4.3 Slot 5



2.4.4 Slot 6

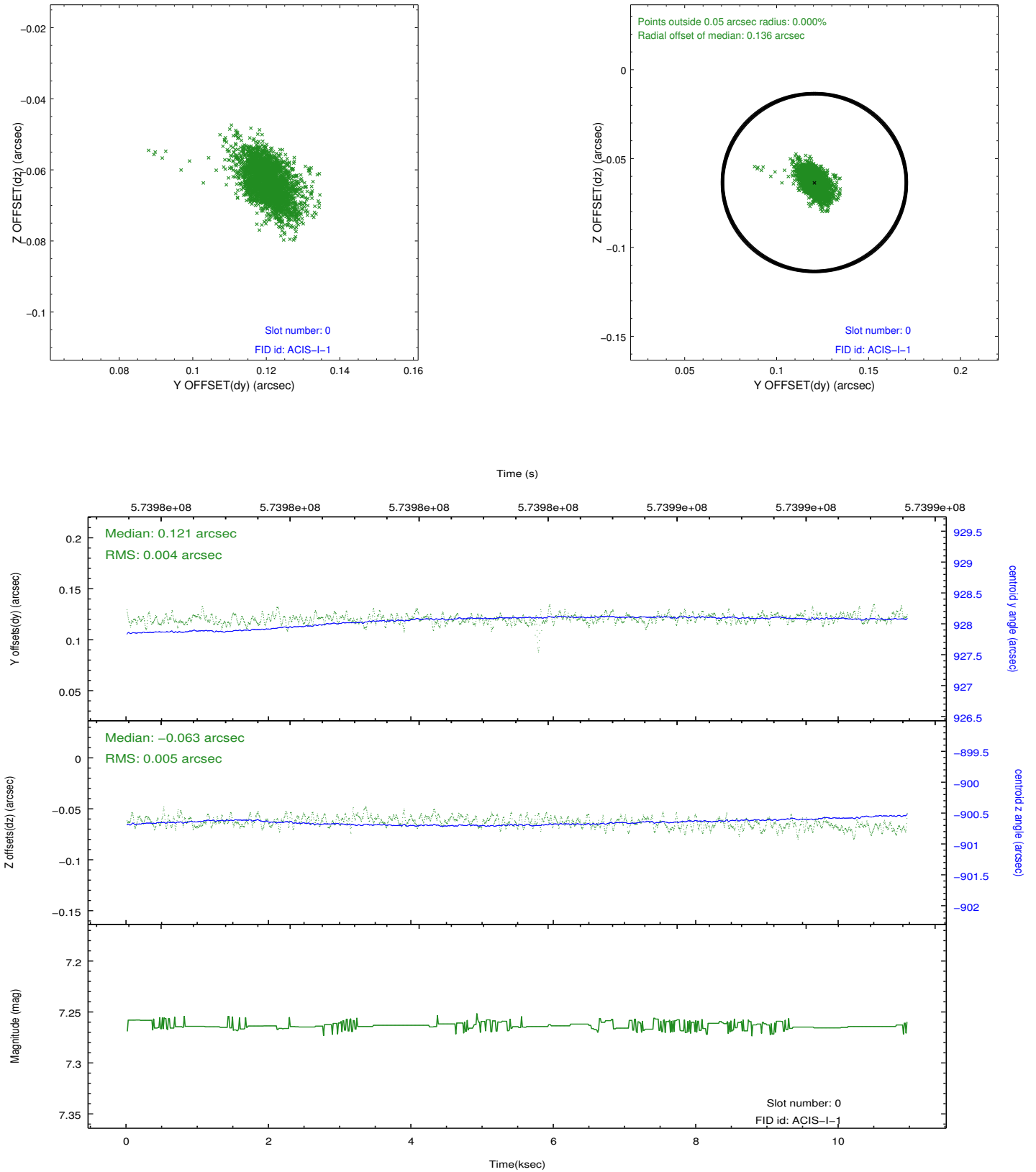


2.4.5 Slot 7

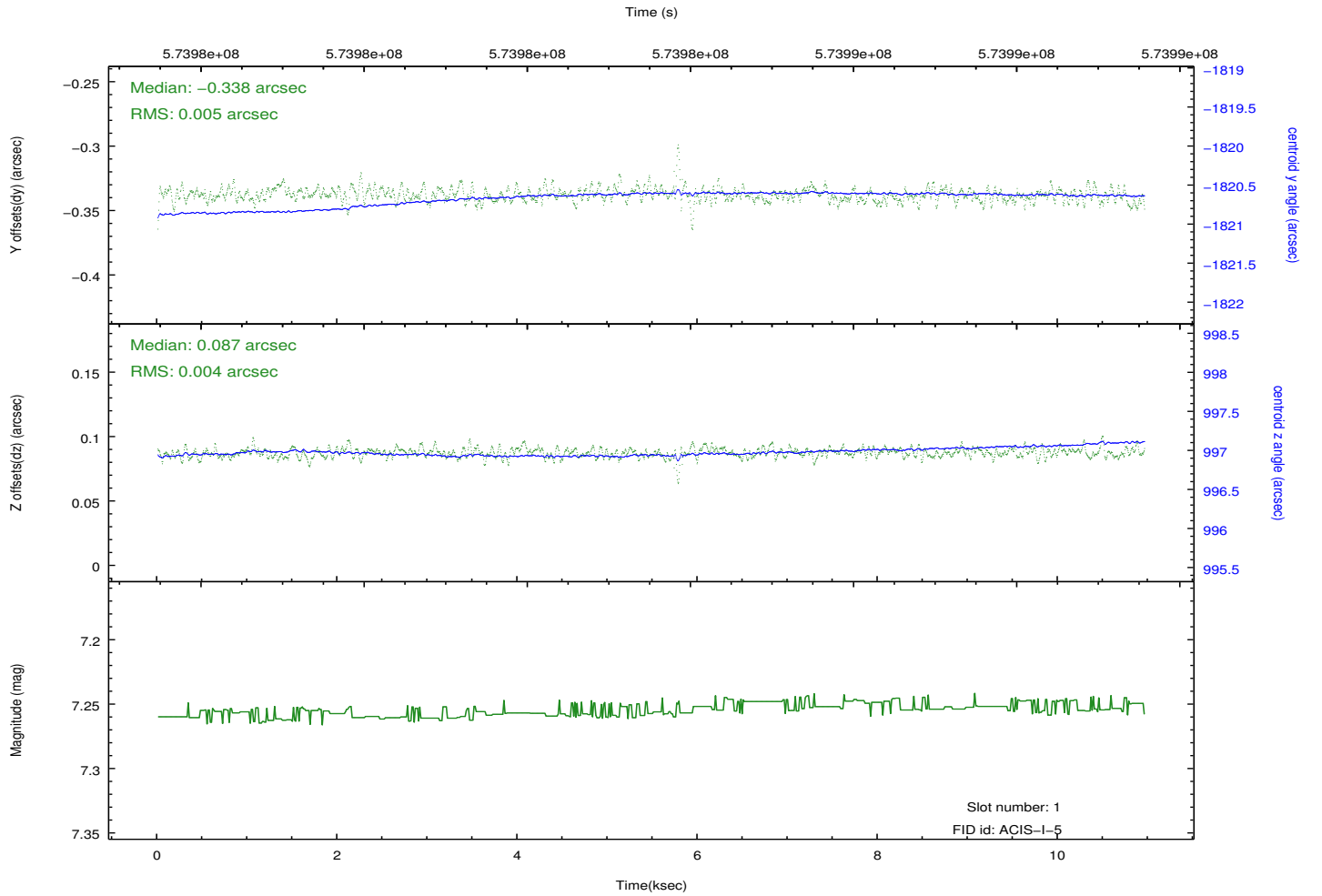
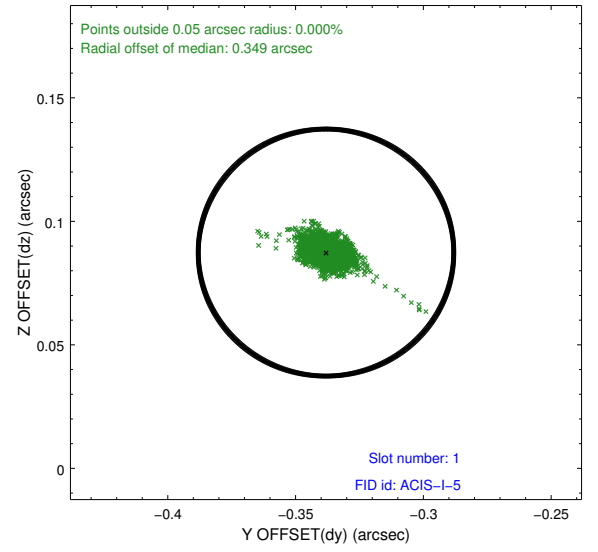
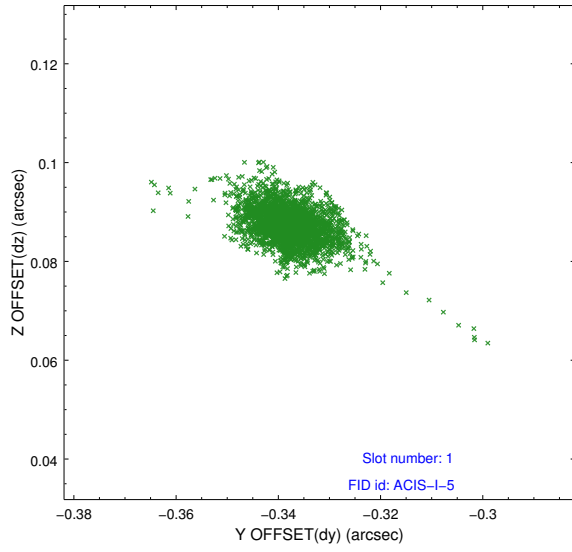


2.5 FID Slots

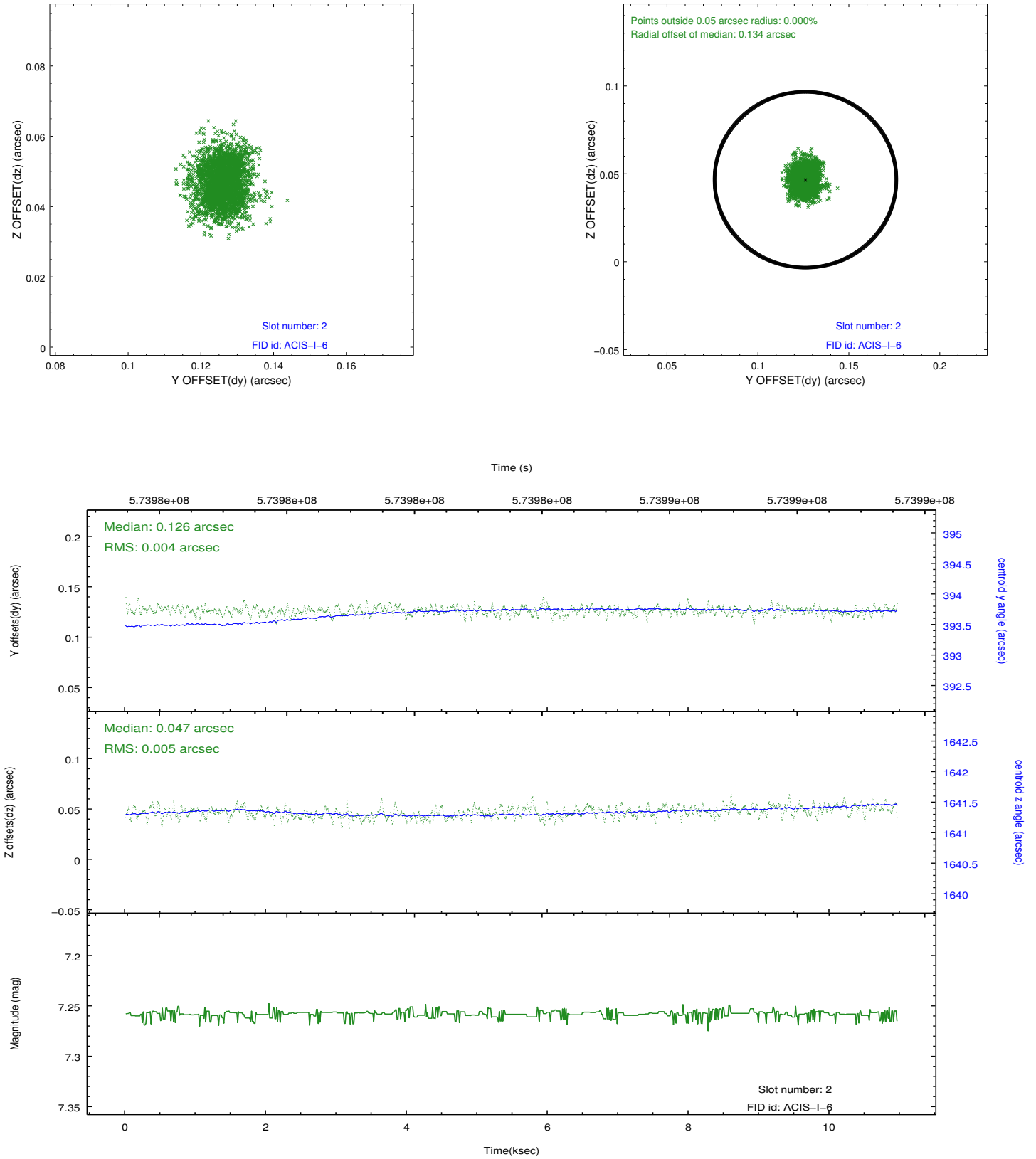
2.5.1 Slot 0



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)	2016.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.071900077581

A.2 Comments