

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18711 - L2 Version 1
Chandra X-Ray Center

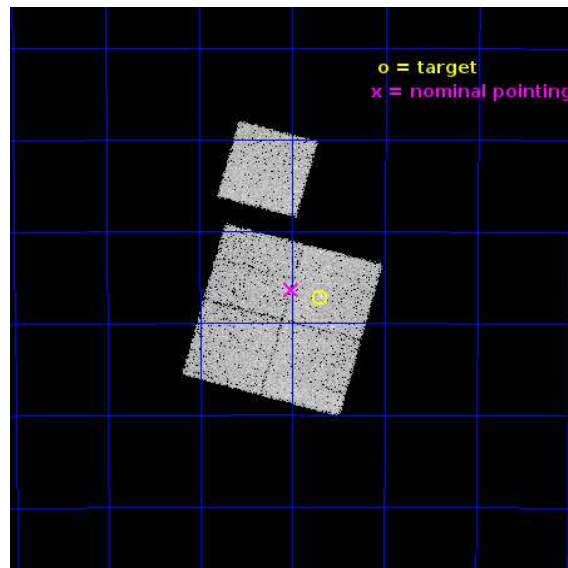
L2 Processing Date : Nov 28 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

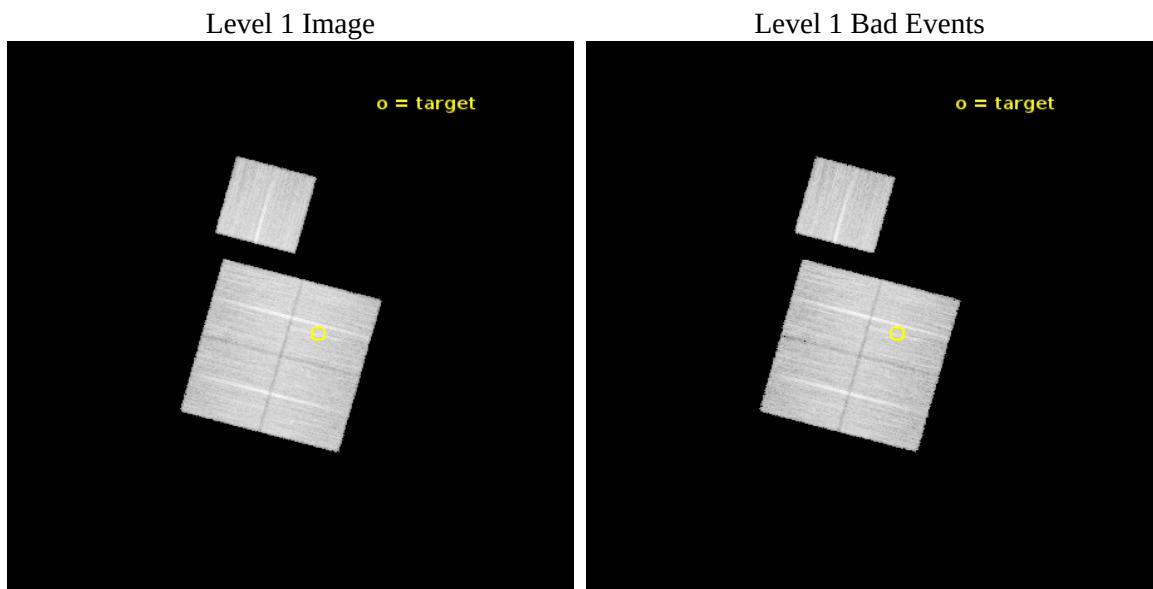
seq_num	801491	Sequence number
obs_id	18711	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Dr Michael McDonald	Principal investigator
object	SPT-CLJ0459-4947	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	74.927083	Observer's specified target RA [deg]
dec_targ	-49.787194	Observer's specified target Dec [deg]
ra_nom	75.002593692946	Nominal RA [deg]
dec_nom	-49.772638859254	Nominal Dec [deg]
roll_nom	15.266344804584	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25074.885899782	Sum of GTIs [s]
livetime	24747.264055639	Livetime [s]
ontime0	25071.62174952	Sum of GTIs [s]
ontime1	25071.662769437	Sum of GTIs [s]
ontime2	25068.562769294	Sum of GTIs [s]
ontime3	25074.885899782	Sum of GTIs [s]
ontime6	25071.580689549	Sum of GTIs [s]
l2events	67467	Number of level 2 events



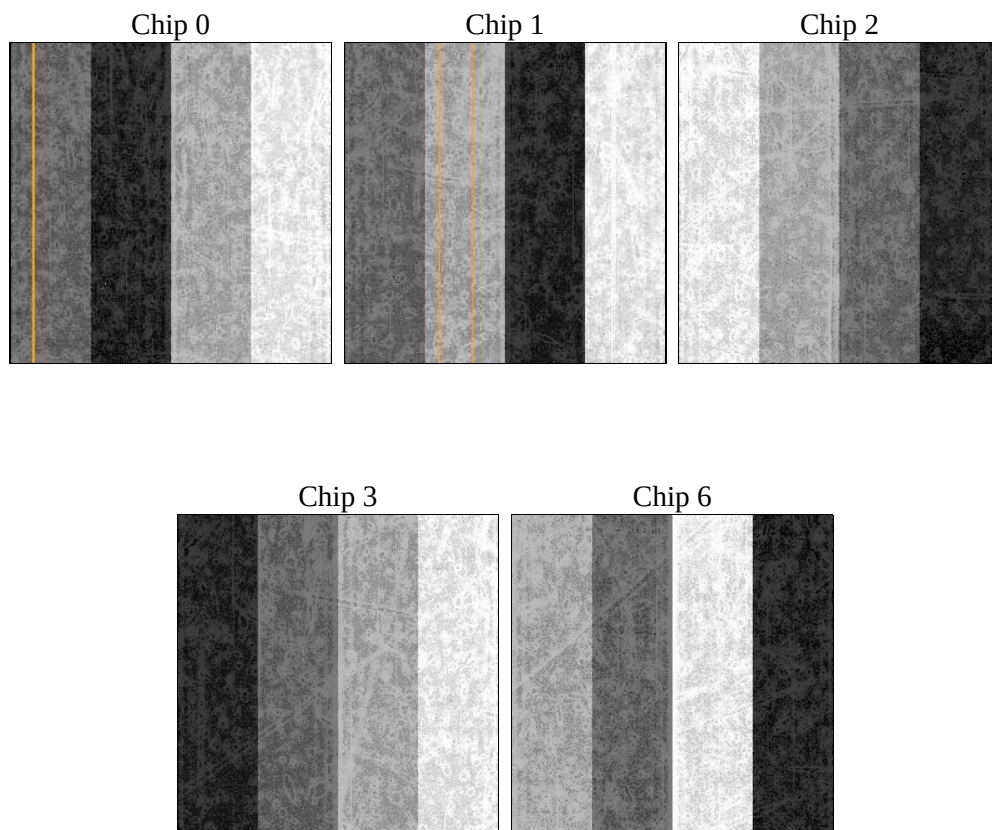
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	25074.885899782	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	25071.62174952	Sum of GTIs [s]
date	2015-11-28T20:29:14	Date and time of file creation	ontime1	25071.662769437	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25068.562769294	Sum of GTIs [s]
			ontime3	25074.885899782	Sum of GTIs [s]
			ontime6	25071.580689549	Sum of GTIs [s]
			l1events	706342	Number of level 1 events

2.1.4 Events

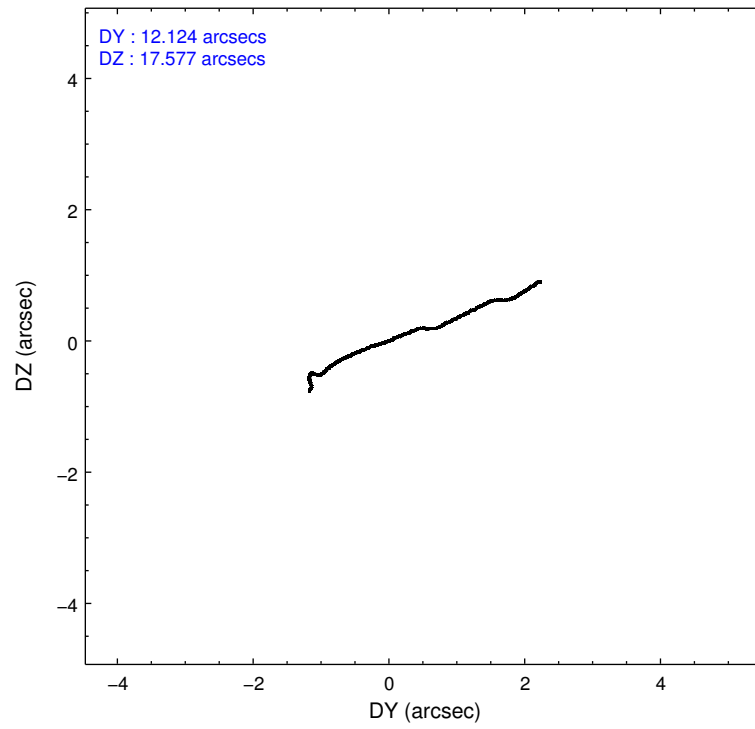
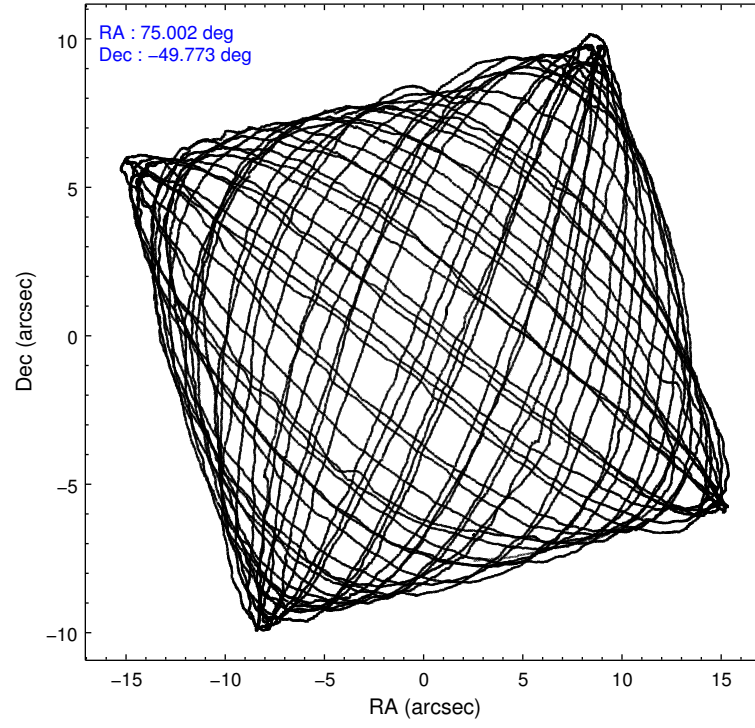
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	131520	136017	147179	144961	146665
rejected events	115731	118268	132034	129639	130564
rejected %	87%	86%	89%	89%	89%

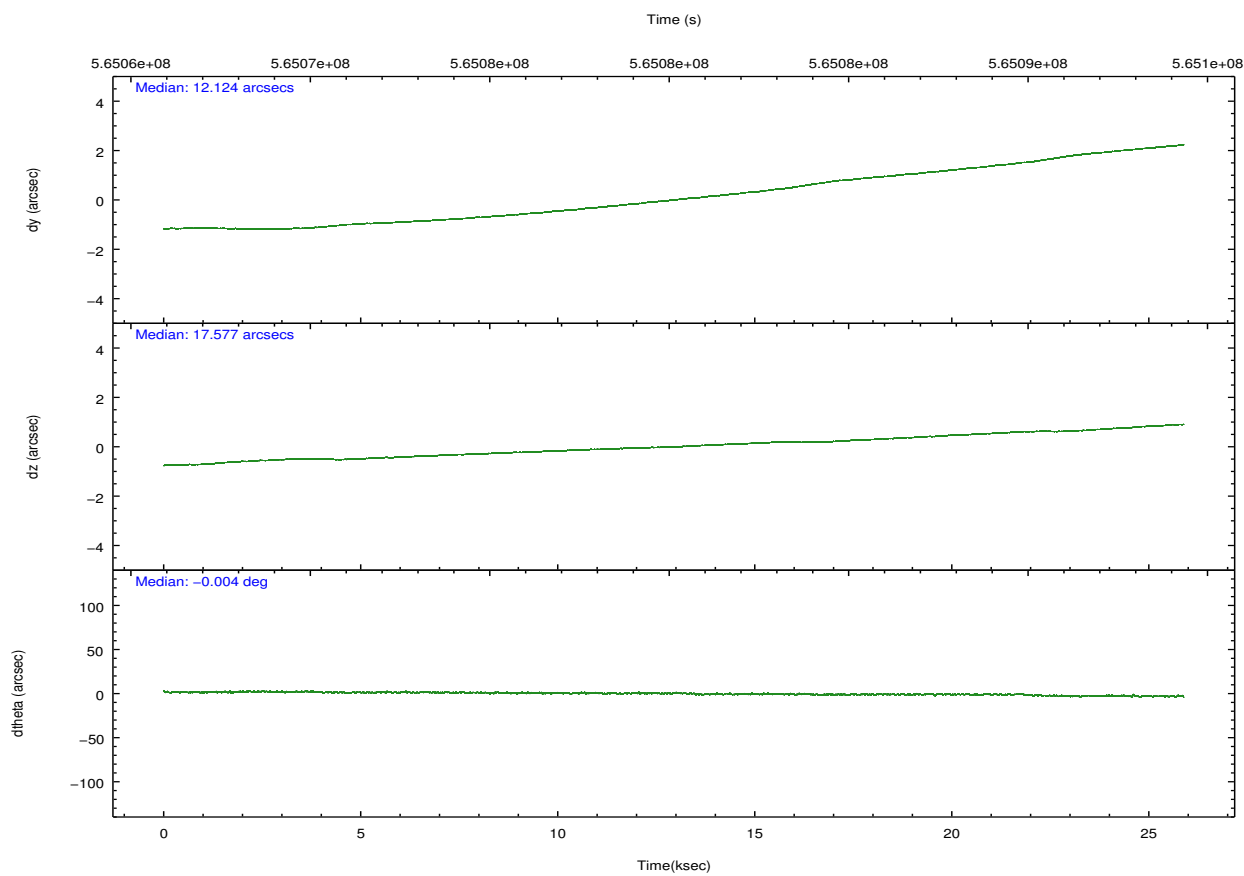
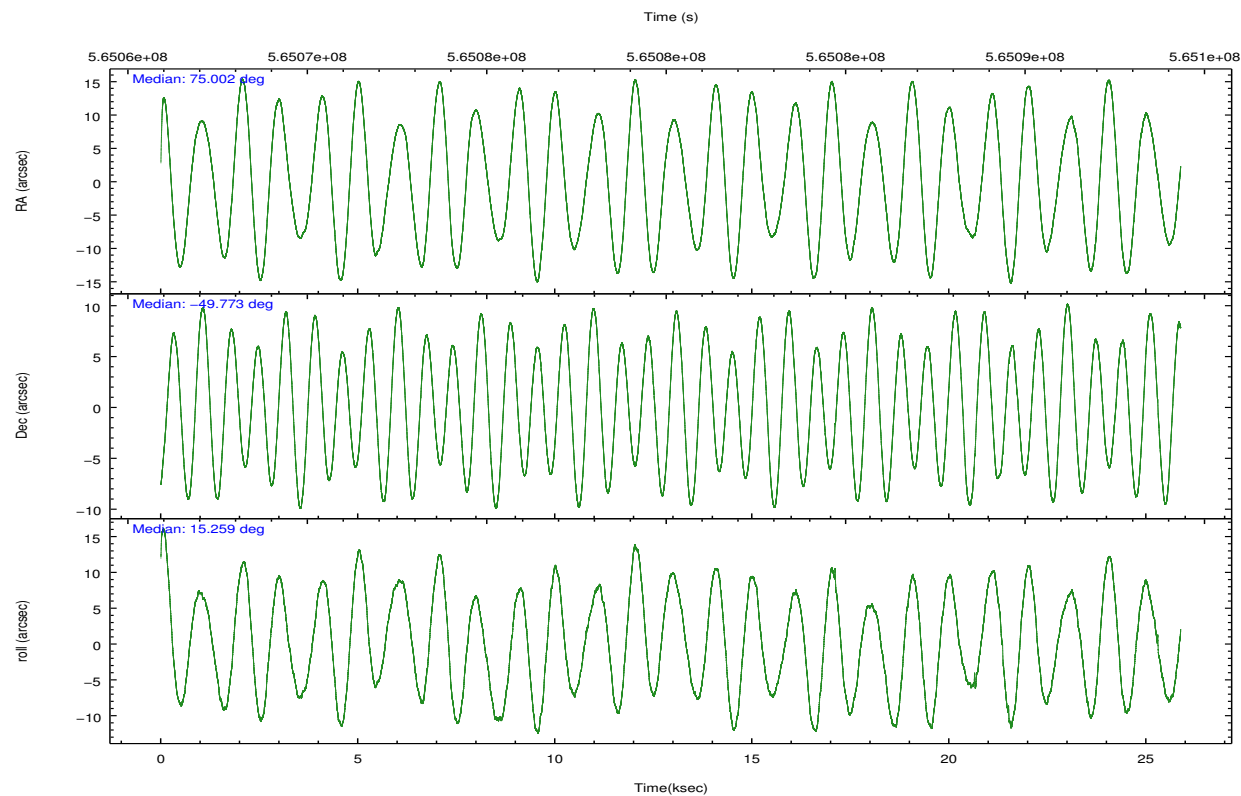
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5455	5976	5368	5363	5184
	4%	4%	3%	3%	3%
grade 1 events	80	66	74	98	66
	0%	0%	0%	0%	0%
grade 2 events	3805	4337	3672	3337	3906
	2%	3%	2%	2%	2%
grade 3 events	1599	1705	1525	1650	1584
	1%	1%	1%	1%	1%
grade 4 events	1567	1664	1549	1659	1546
	1%	1%	1%	1%	1%
grade 5 events	6176	6527	5832	7120	6659
	4%	4%	3%	4%	4%
grade 6 events	3367	4071	3035	3314	3883
	2%	2%	2%	2%	2%
grade 7 events	109471	111671	126124	122420	123837
	83%	82%	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	74.972633	75.00259369294557	CCD I2 on	Y	Y
[deg] Pointing Dec	-49.792313	-49.77263885925393	CCD I3 on	Y	Y
[deg] Pointing Roll	15.034785	15.26634480458414	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	565068085.184000	565065919.54888	CCD S5 on	N	N
Observation start date	2015-11-28T03:20:17	2015-11-28T02:45:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	565093085.184000	565093884.62547	On-chip summing requested	N	N
Observation end date	2015-11-28T10:16:57	2015-11-28T10:31:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



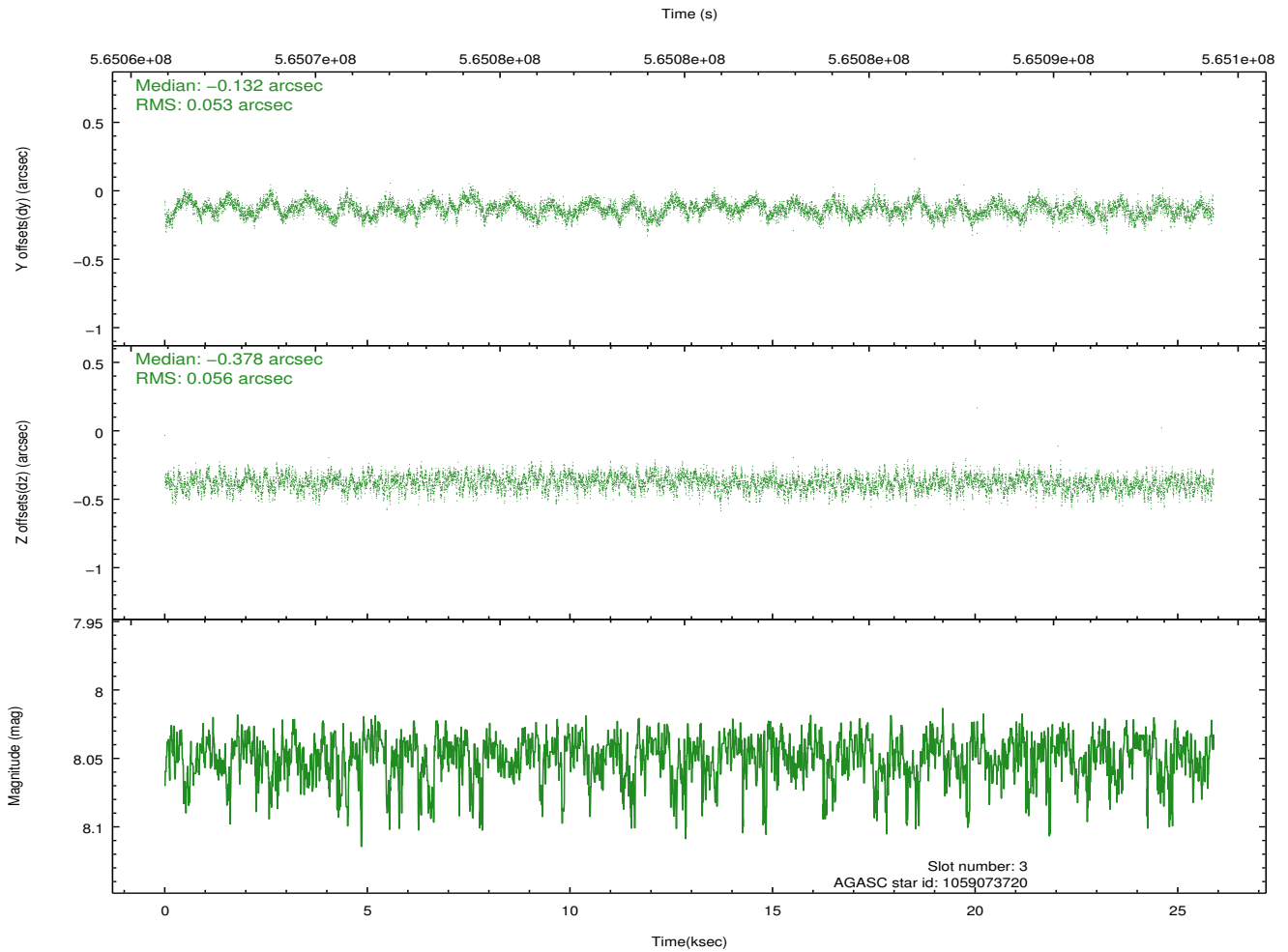
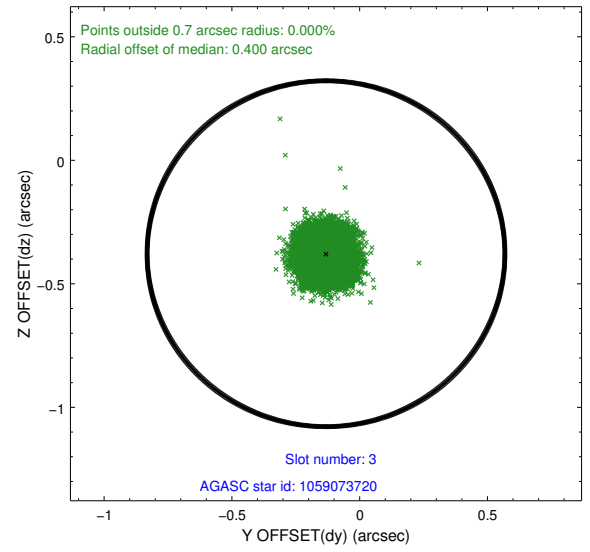
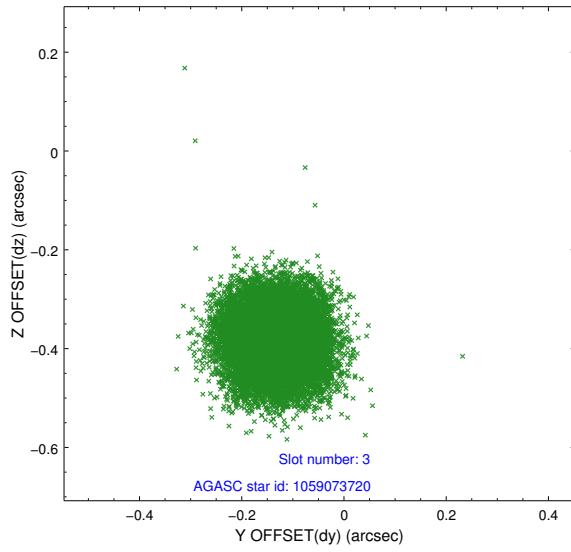


Slot Statistics

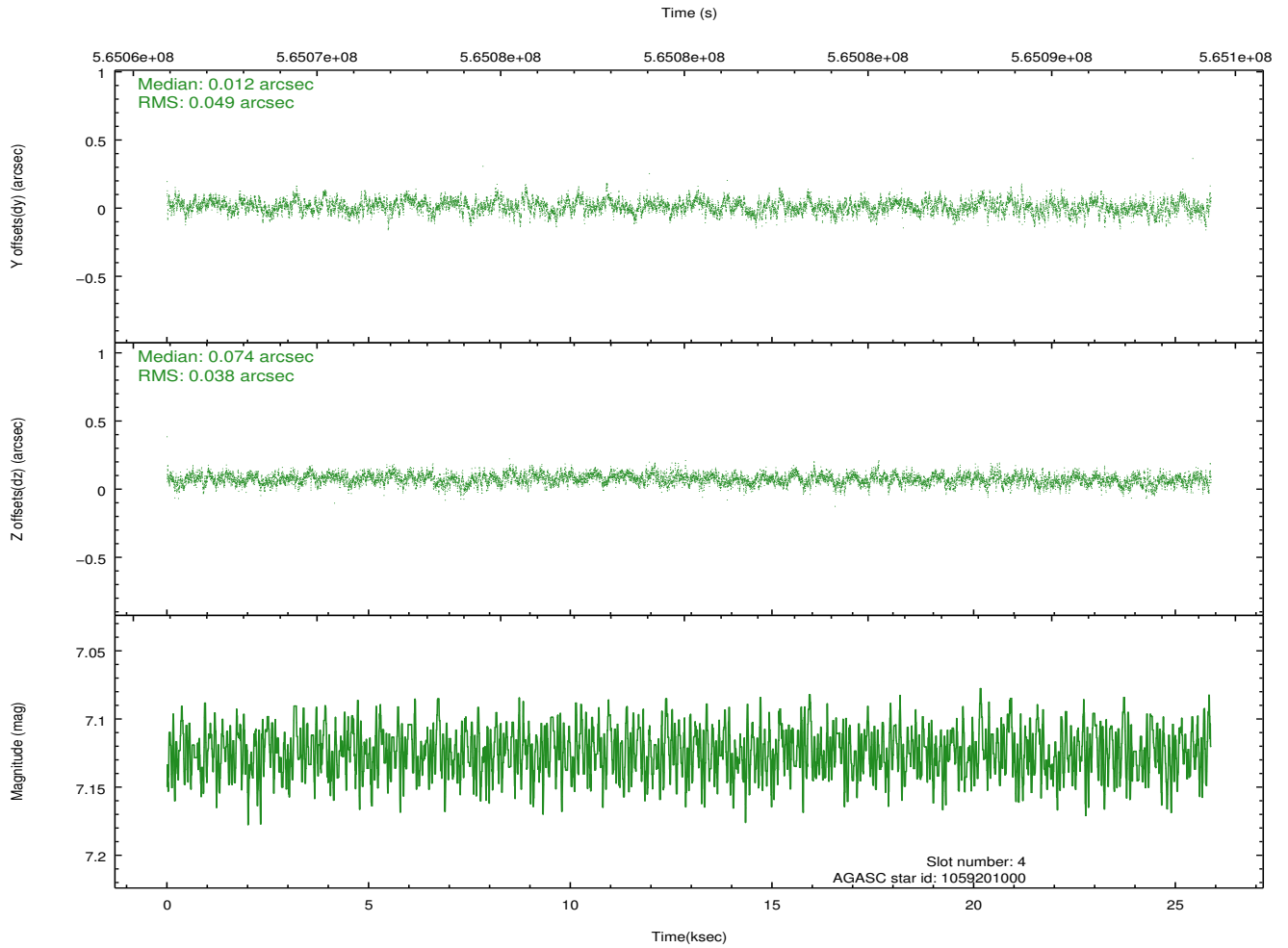
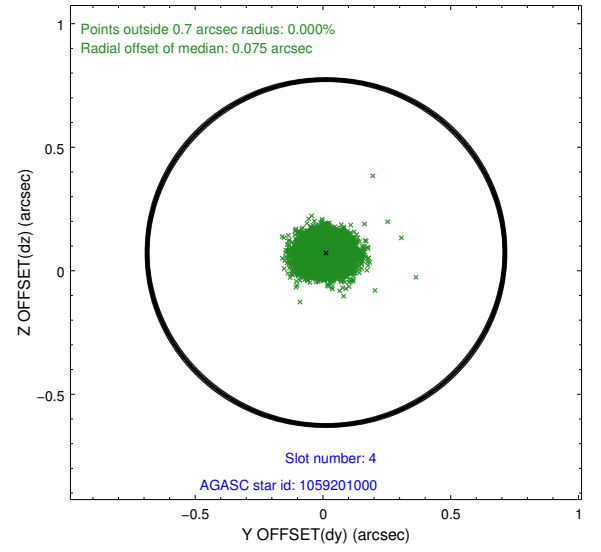
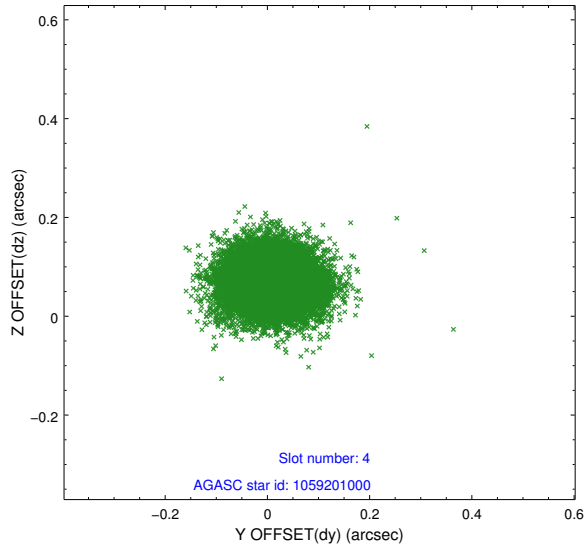
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	6312	0.154	-0.121	0.032	0.056	0.000000	0.000000	927.28	-1000.43
1	FID		ACIS-I-5	7.24	6311	-0.344	0.110	0.019	0.046	0.000000	0.000000	-1821.34	897.08
2	FID		ACIS-I-6	7.27	6312	0.097	0.080	0.032	0.064	0.000000	0.000000	392.56	1541.79
3	GUIDE	used	1059073720	8.05	12625	-0.132	-0.378	0.082	0.130	74.658527	-49.231044	-189.13	2141.18
4	GUIDE	used	1059201000	7.12	12623	0.012	0.074	0.065	0.108	75.733601	-49.703433	1791.81	-157.56
5	GUIDE	used	1059206568	7.04	12624	-0.192	-0.317	0.068	0.112	75.815619	-49.492286	2181.67	521.41
6	GUIDE	used	1059466240	8.91	12614	0.172	0.381	0.111	0.175	74.209270	-50.505530	-2355.43	-2035.49
7	GUIDE	used	1059598968	8.11	12622	0.141	0.240	0.095	0.157	75.798835	-50.321984	1337.04	-2344.15

2.4 Star Slots

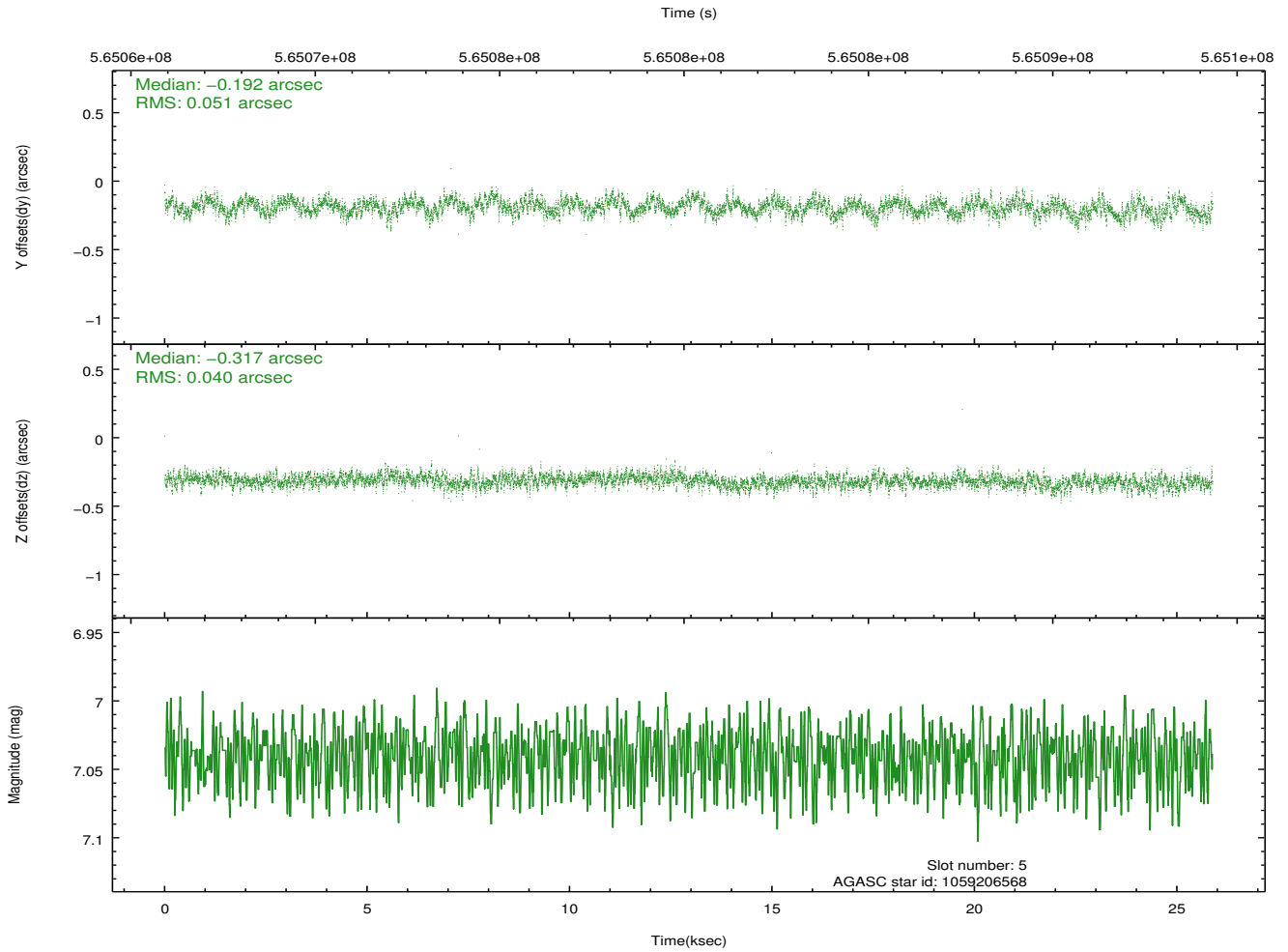
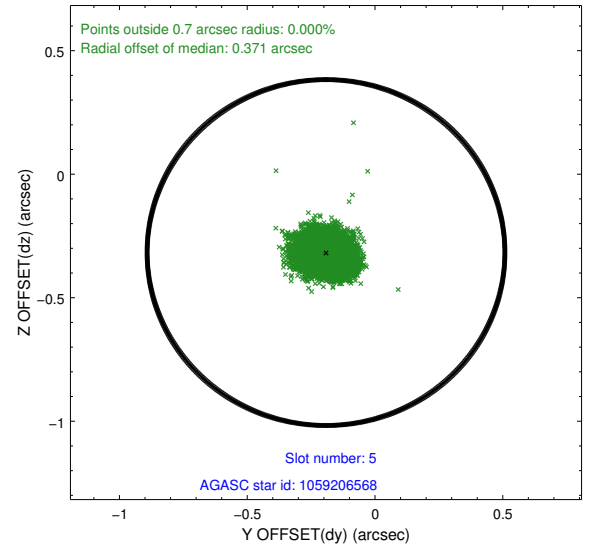
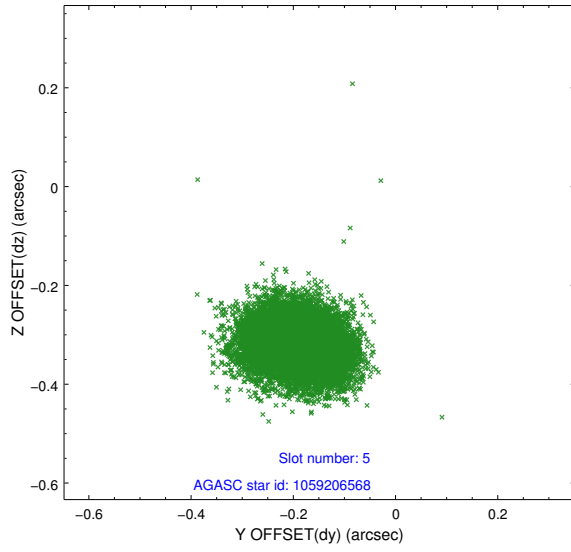
2.4.1 Slot 3



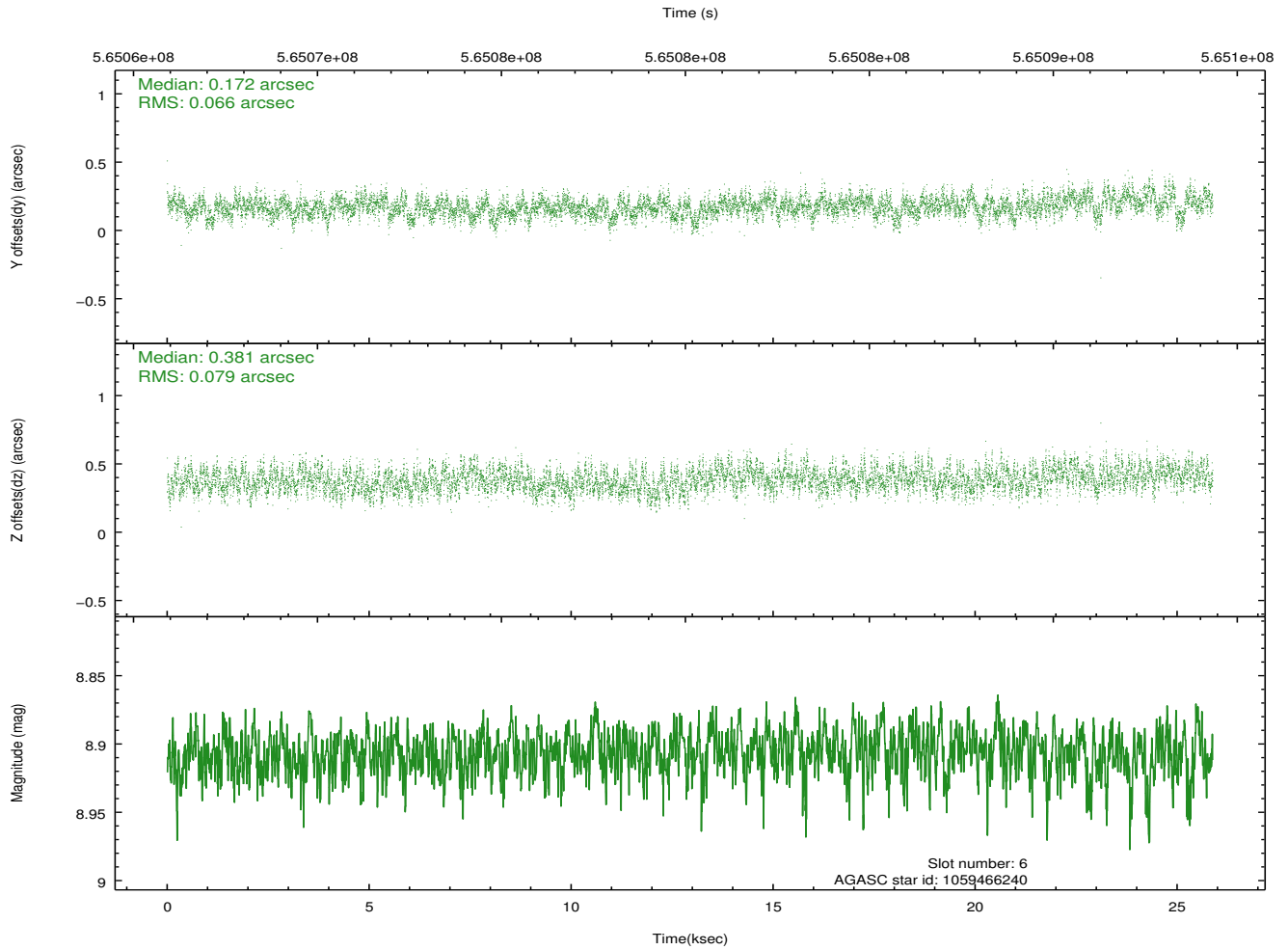
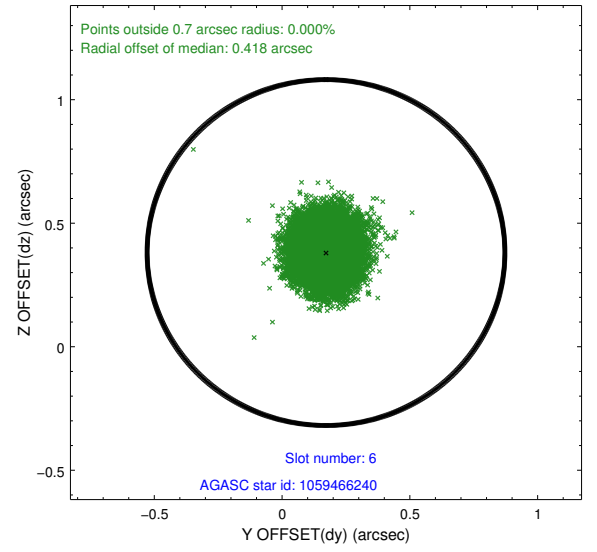
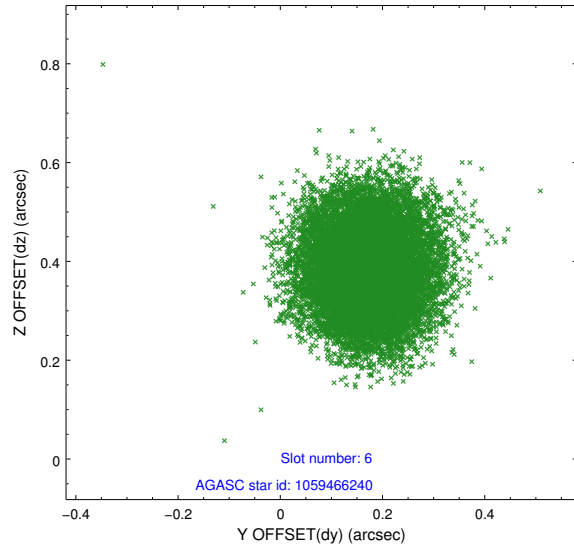
2.4.2 Slot 4



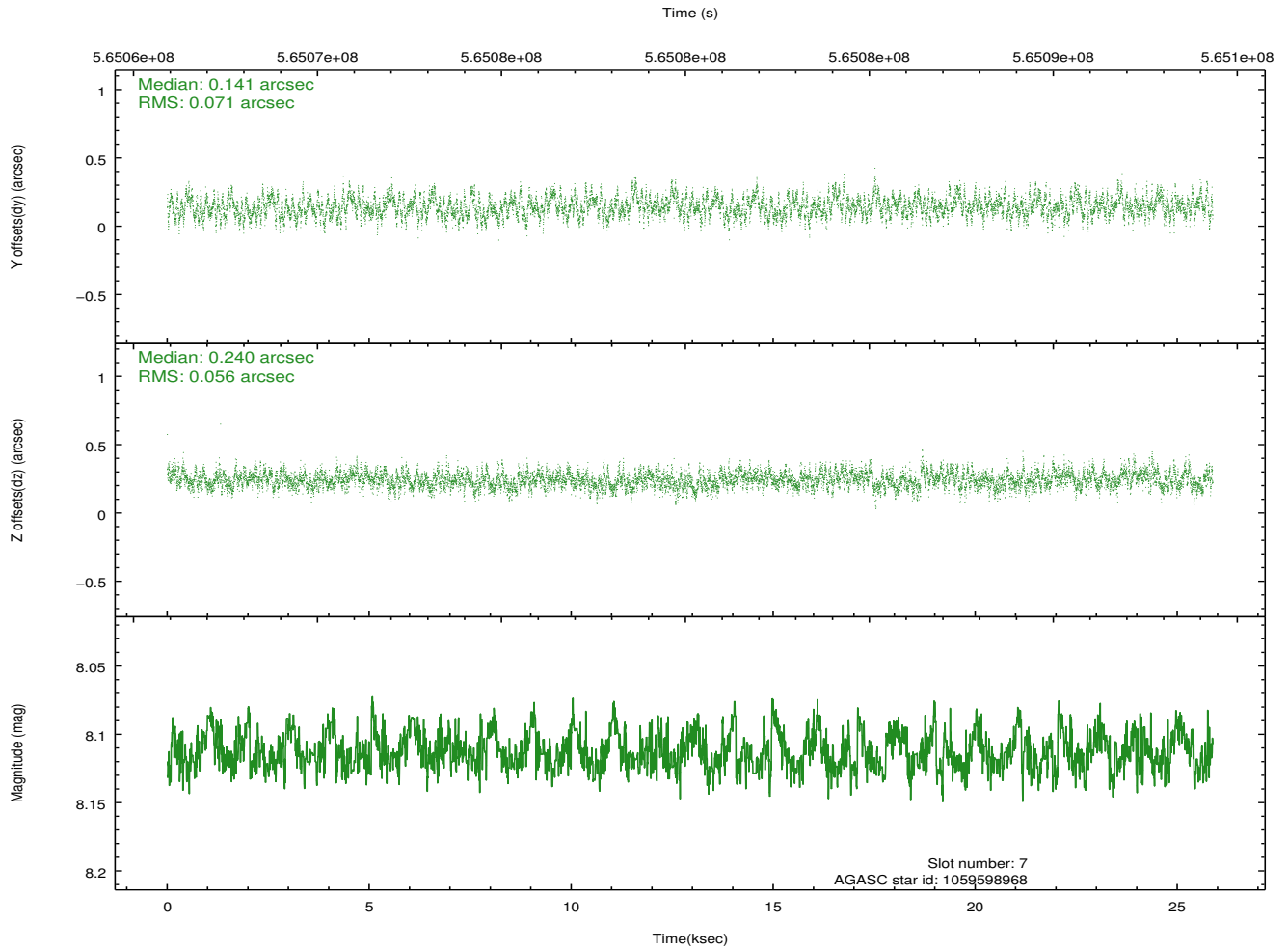
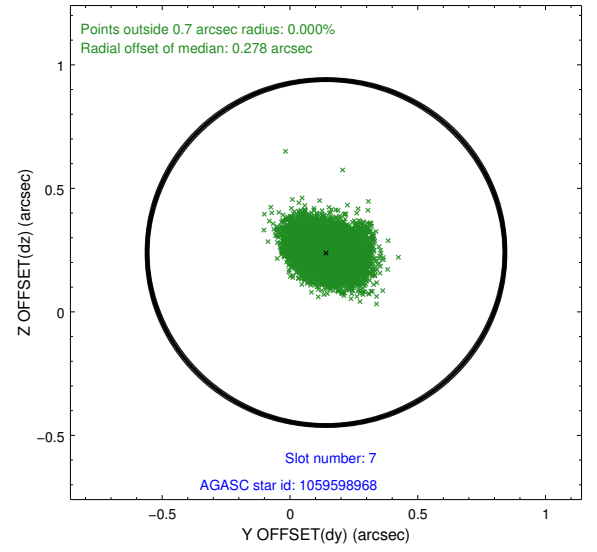
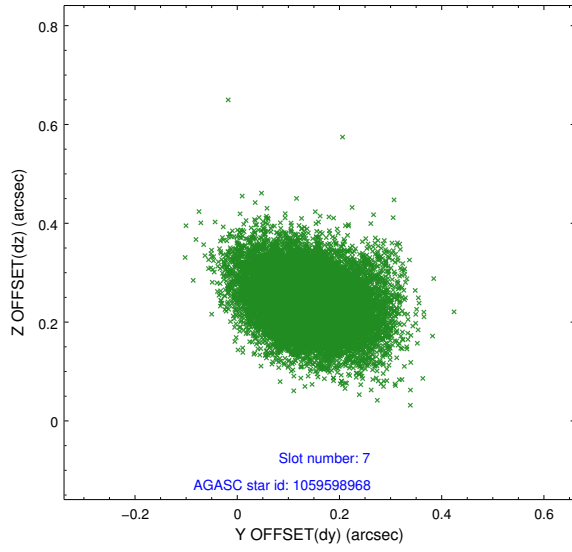
2.4.3 Slot 5



2.4.4 Slot 6

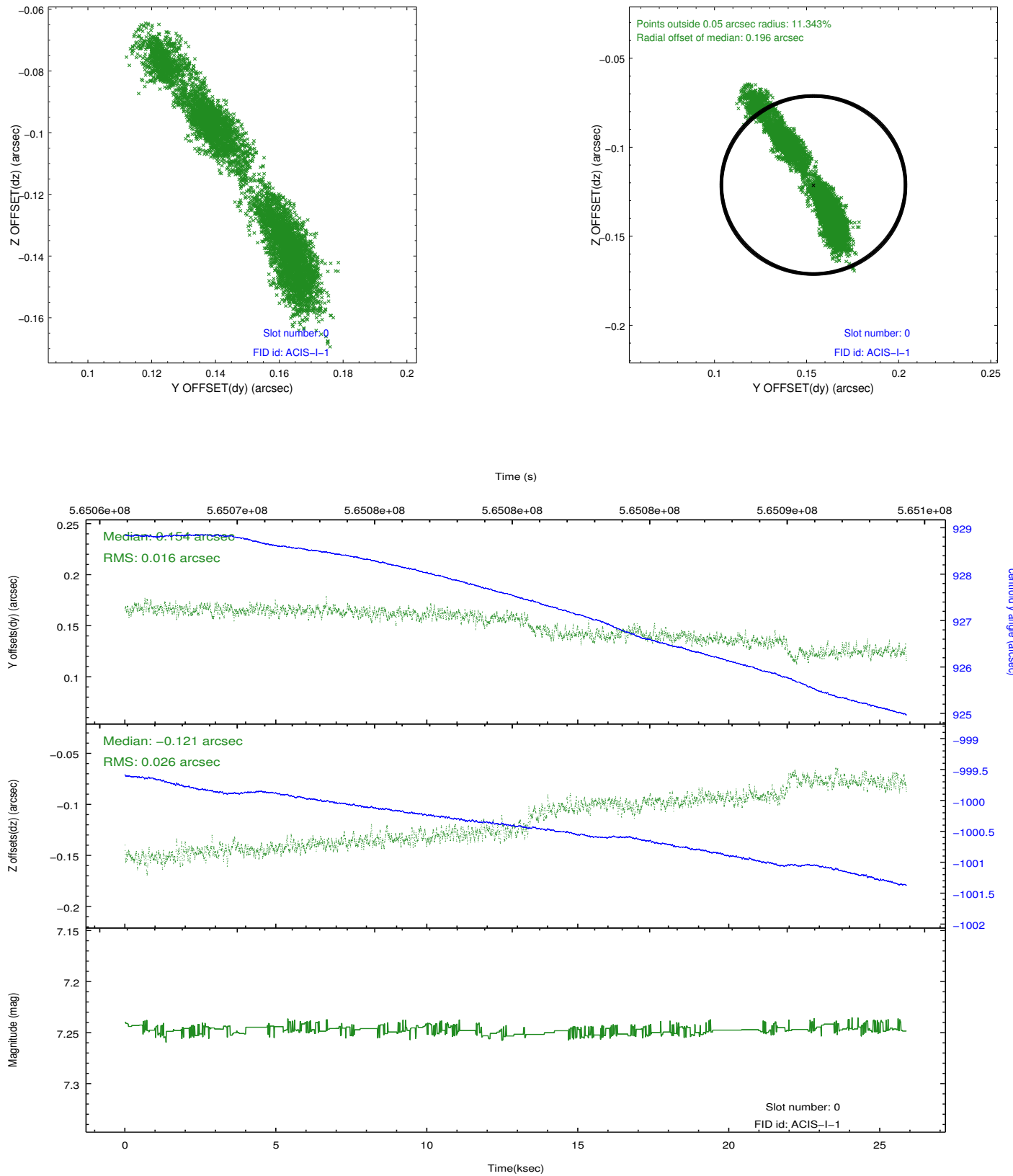


2.4.5 Slot 7

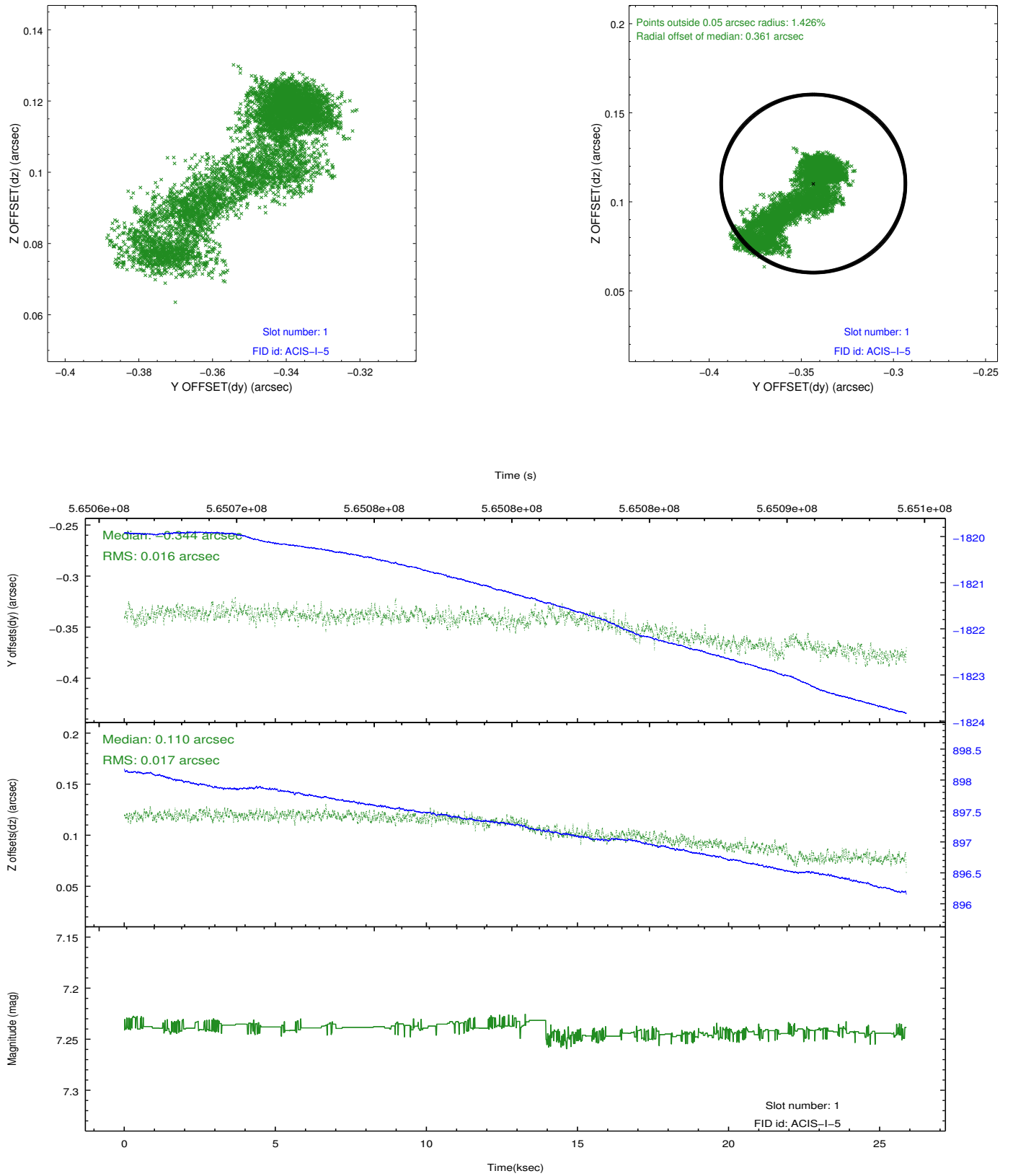


2.5 FID Slots

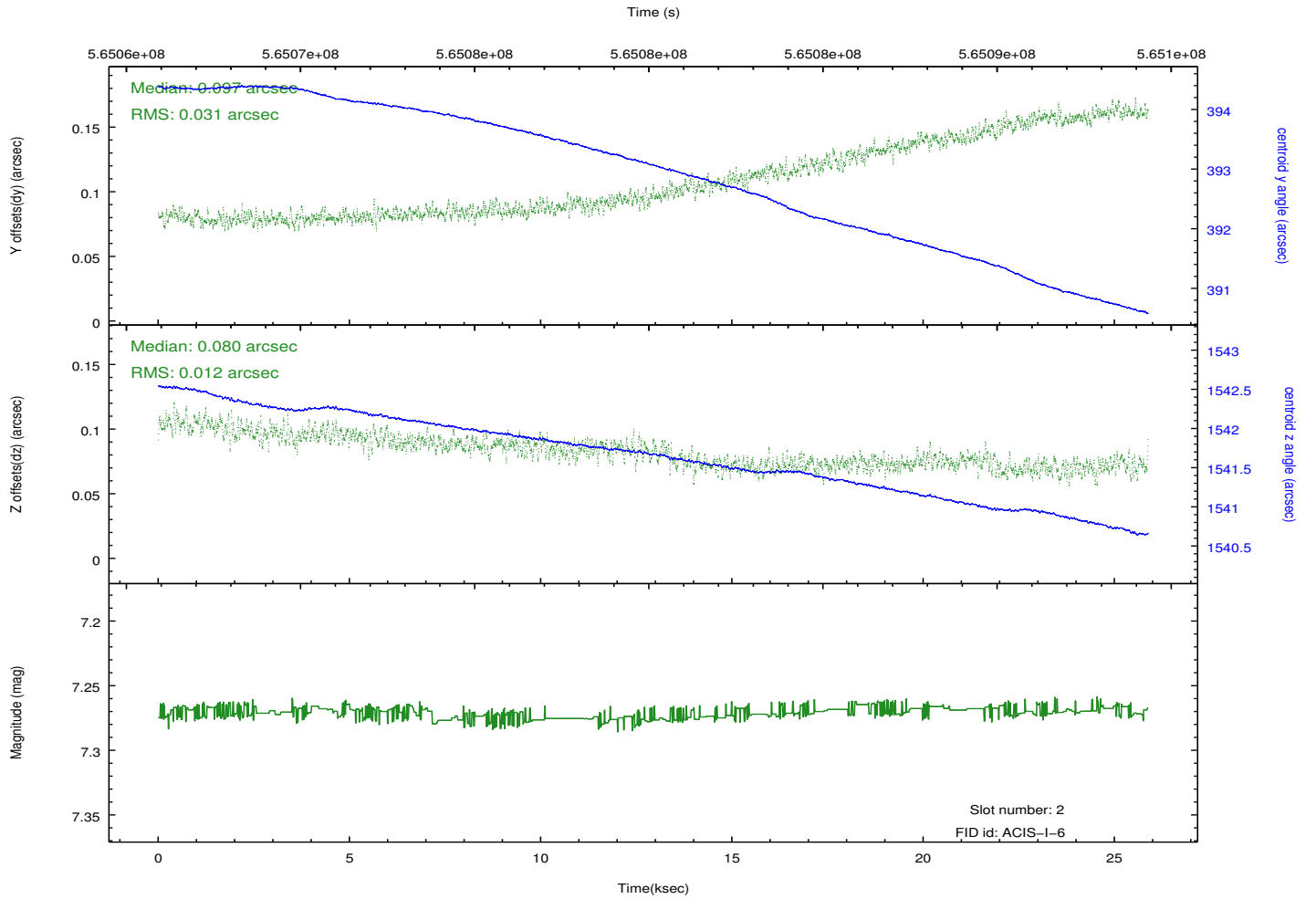
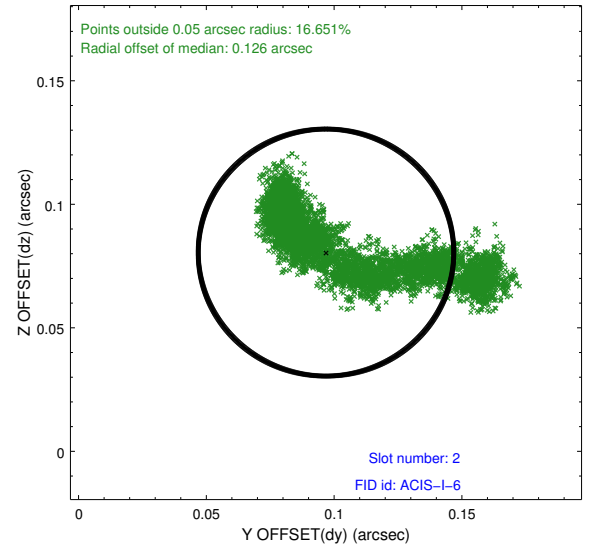
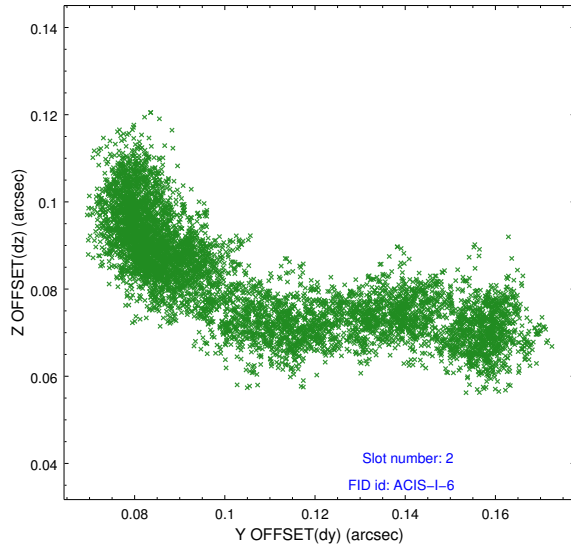
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.074885899782

A.2 Comments