

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19439 - L2 Version 1
Chandra X-Ray Center

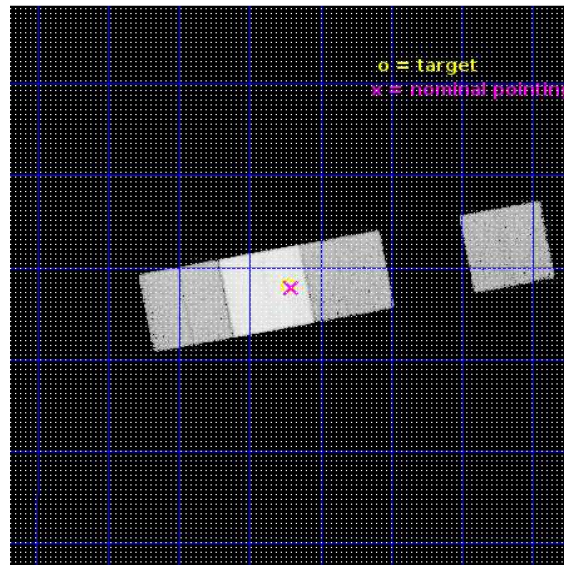
L2 Processing Date : May 14 2017

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1 Front

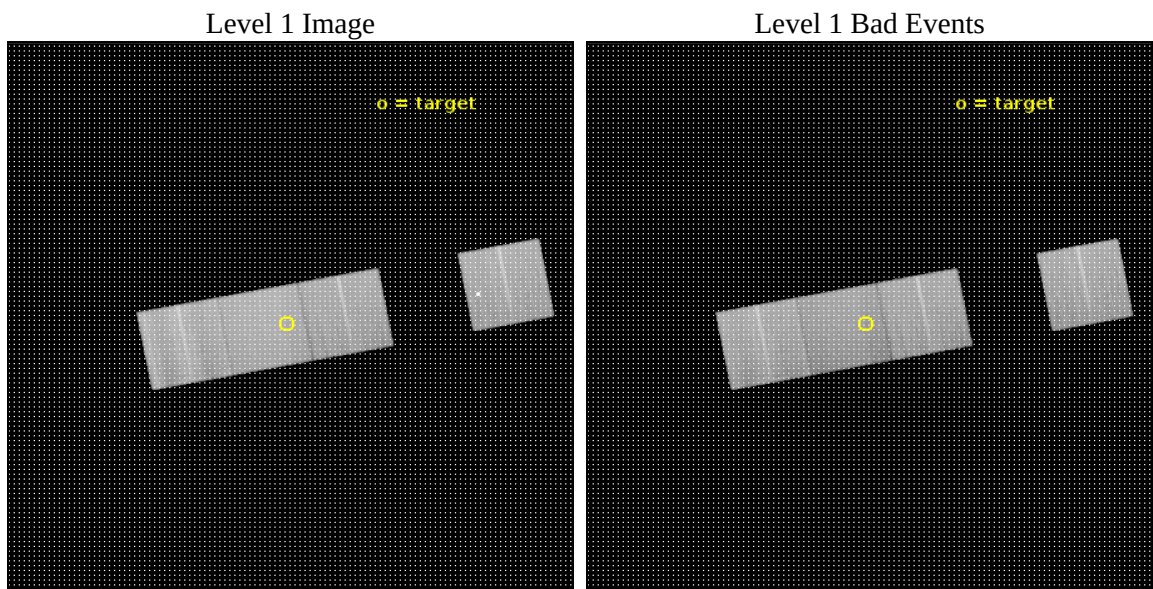
seq_num	601396	Sequence number
obs_id	19439	Observation id
title	Too young to shine? Nearby Primordial Starbursts and the X-ray Scaling Relations in the Early Universe	Proposal title
observer	Antara Basu-zych	Principal investigator
object	J154543.55+085801.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	236.431667	Observer's specified target RA [deg]
dec_targ	8.967	Observer's specified target Dec [deg]
ra_nom	236.42604295581	Nominal RA [deg]
dec_nom	8.9632298251514	Nominal Dec [deg]
roll_nom	169.11653250115	Nominal Roll [deg]
revision	1	Processing version of data
ontime	38948.400299668	Sum of GTIs [s]
livetime	38439.510776358	Livetime [s]
ontime4	38942.11819911	Sum of GTIs [s]
ontime6	38945.259239554	Sum of GTIs [s]
ontime7	38948.400299668	Sum of GTIs [s]
ontime8	38945.259229422	Sum of GTIs [s]
l2events	238732	Number of level 2 events



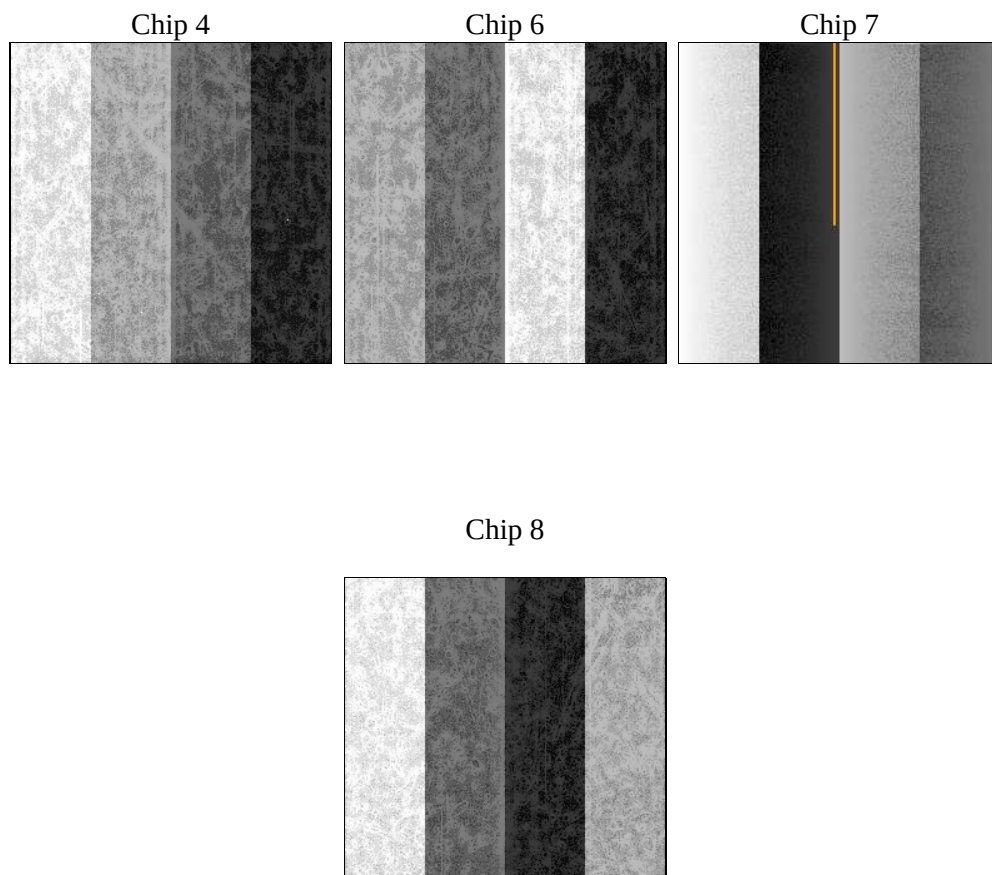
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38834.094000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	38948.400299668	Sum of GTIs [s]
caldbver	4.7.4	 	ontime4	38942.11819911	Sum of GTIs [s]
date	2017-05-14T22:13:50	Date and time of file creation	ontime6	38945.259239554	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	38948.400299668	Sum of GTIs [s]
			ontime8	38945.259229422	Sum of GTIs [s]
			l1events	1381097	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 6	ccd 7	ccd 8
level 1 events	334283	300800	364421	381593
rejected events	290433	267520	207423	282089
rejected %	86%	88%	56%	73%

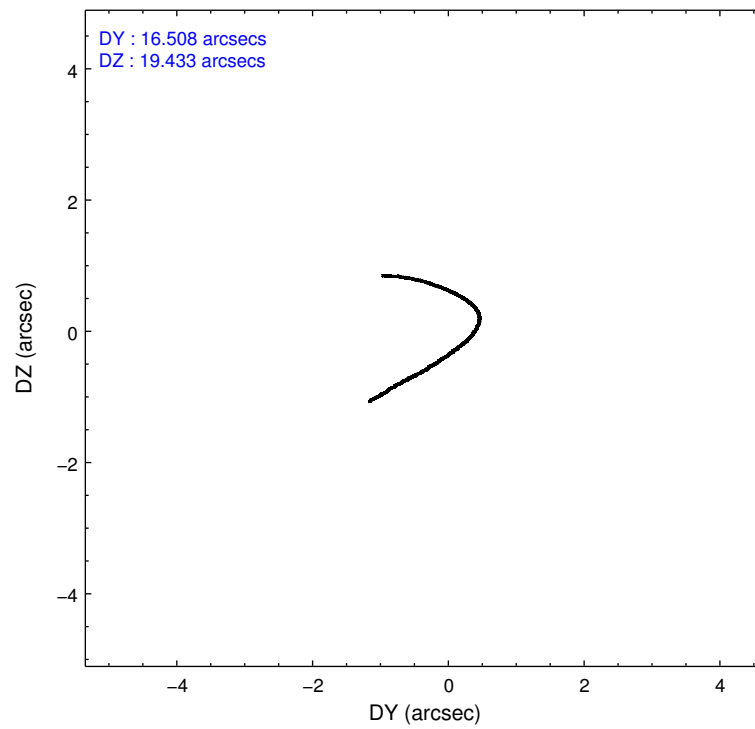
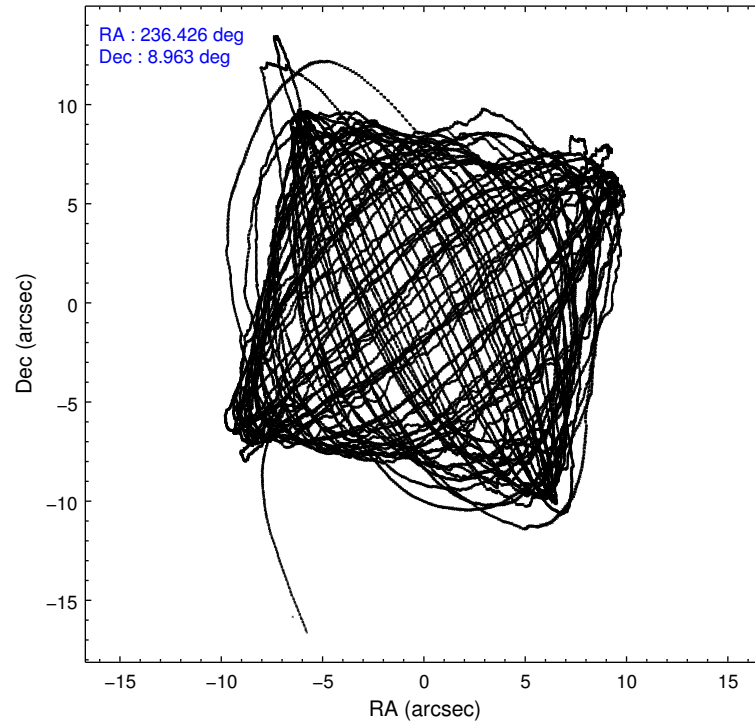
	ccd 4	ccd 6	ccd 7	ccd 8
grade 0 events	22959	10864	12742	27596
	6%	3%	3%	7%
grade 1 events	381	125	496	293
	0%	0%	0%	0%
grade 2 events	7830	8047	33661	24308
	2%	2%	9%	6%
grade 3 events	3766	3207	11880	10212
	1%	1%	3%	2%
grade 4 events	3420	3168	11542	9647
	1%	1%	3%	2%
grade 5 events	13010	13256	34837	20121
	3%	4%	9%	5%
grade 6 events	5879	7995	87179	27747
	1%	2%	23%	7%
grade 7 events	277038	254138	172084	261669
	82%	84%	47%	68%

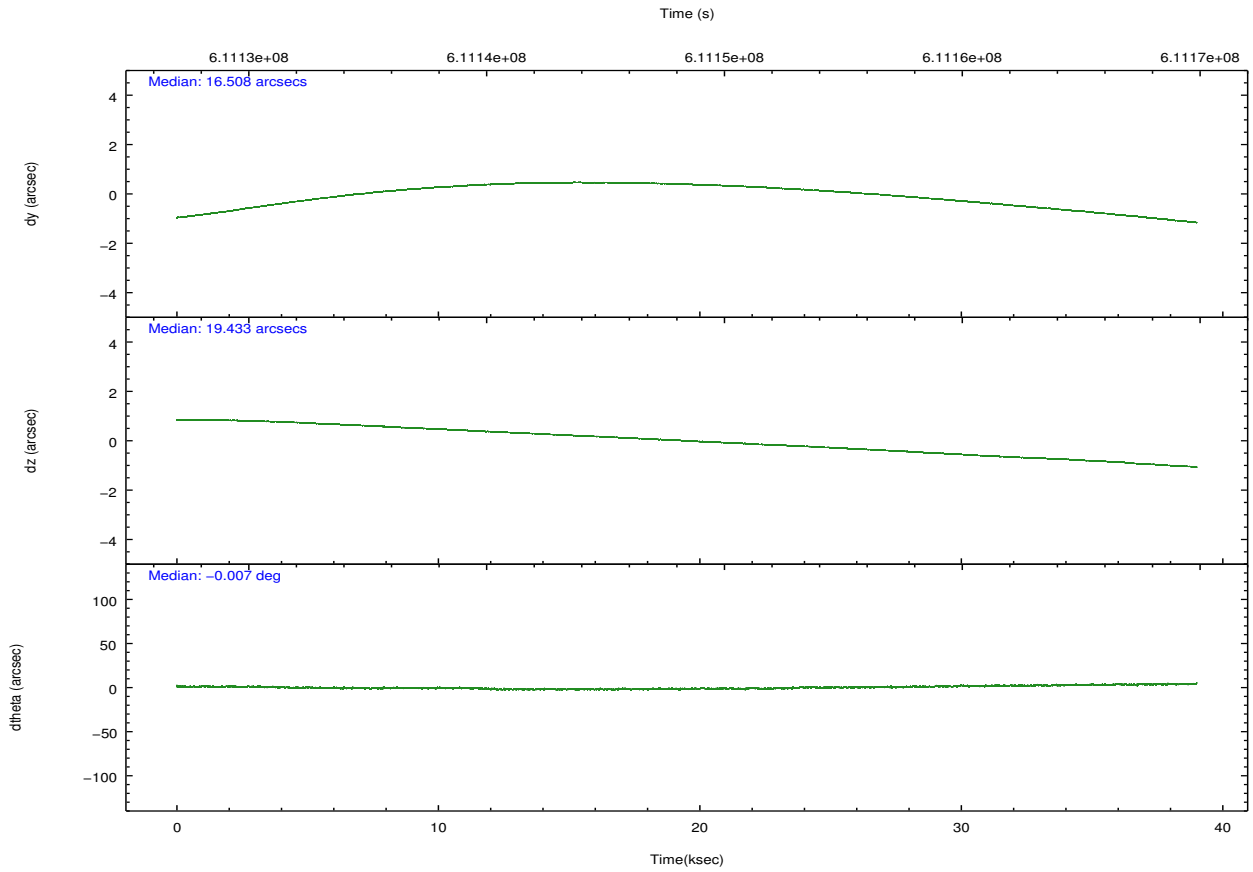
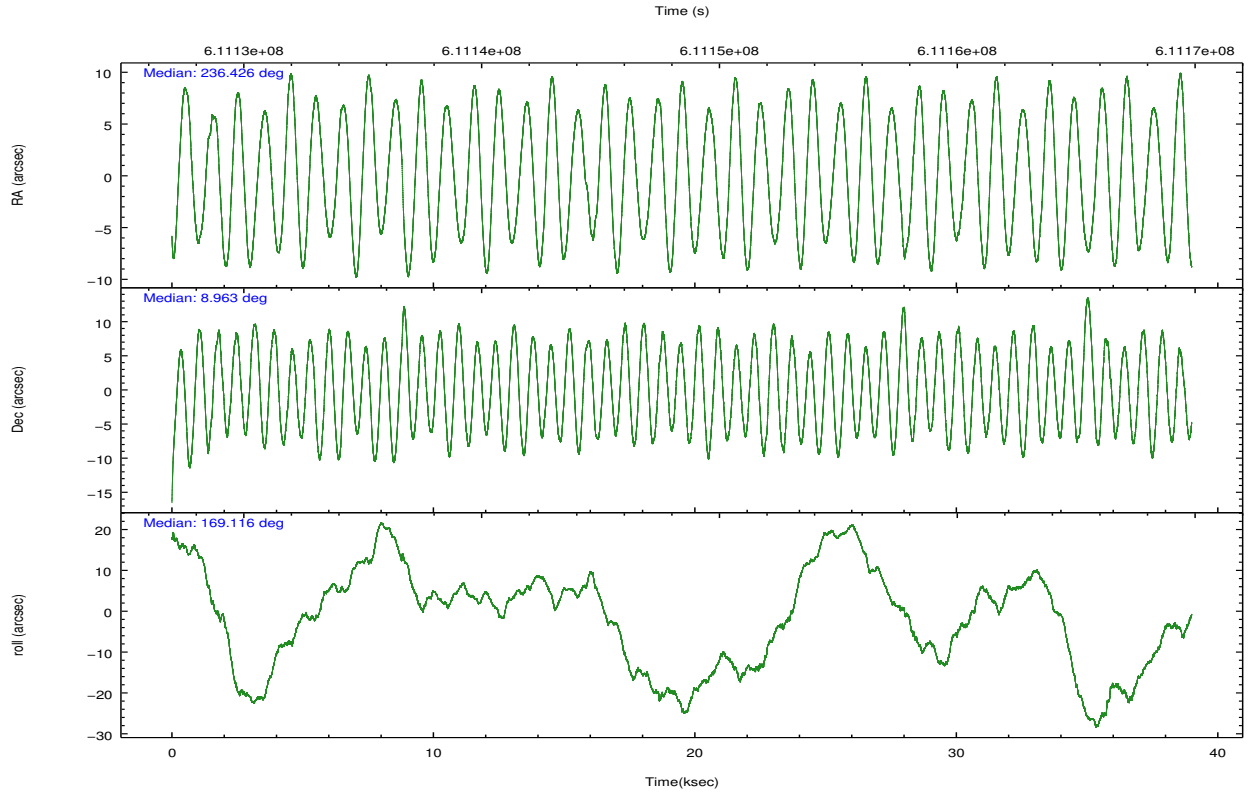
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-4678	ACIS-4678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	236.452172	236.4260429558091
[deg] Pointing Dec	8.972567	8.963229825151366
[deg] Pointing Roll	168.955833	169.1165325011542
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	611129089.184000	611128026.08108
Observation start date	2017-05-14T06:03:40	2017-05-14T05:47:06
[s] Observation end time (MET)	611167923.184000	611168148.6834199
Observation end date	2017-05-14T16:50:54	2017-05-14T16:55:48
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	O3	Y
CCD S1 on	O2	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O1	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



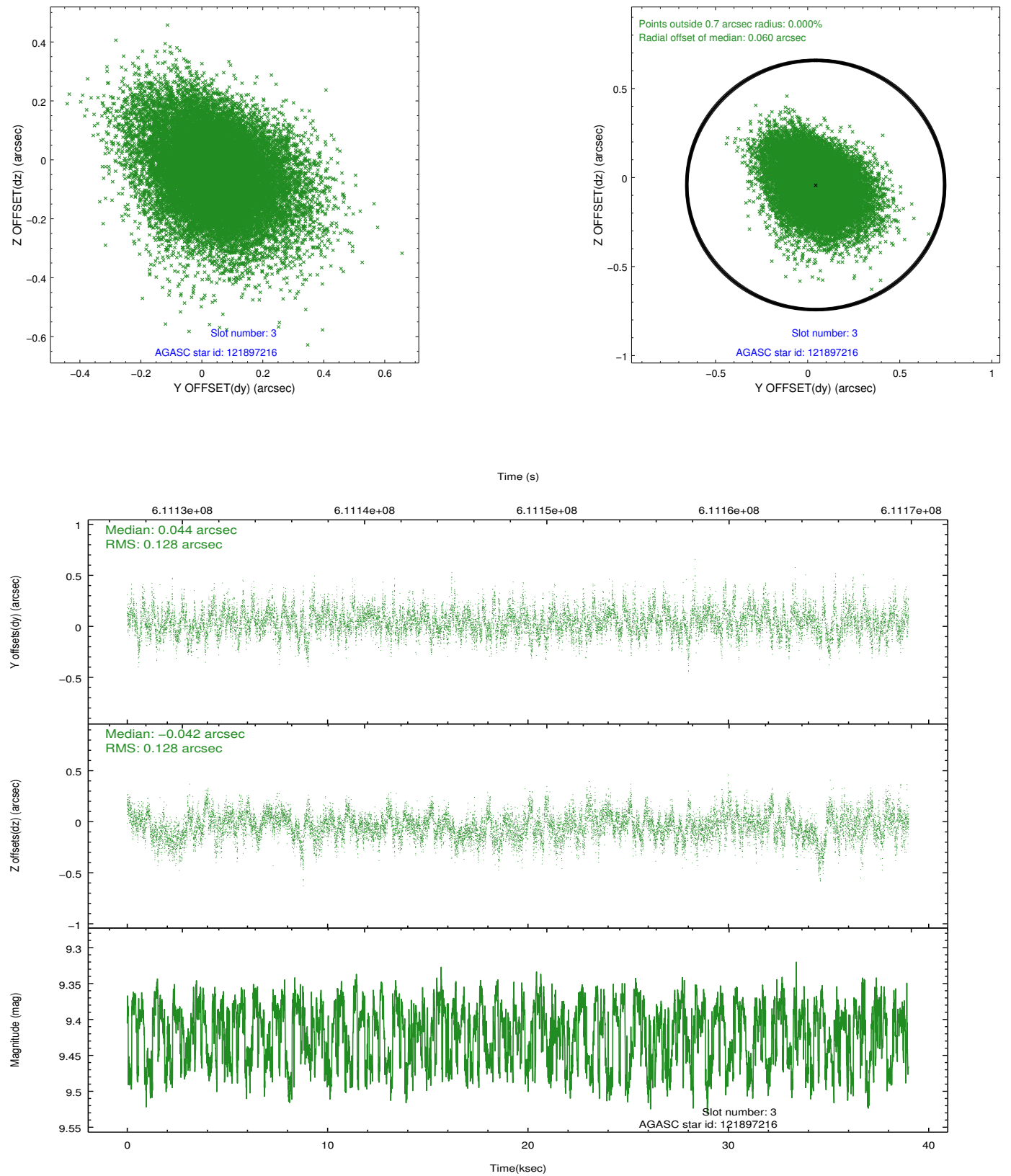


Slot Statistics

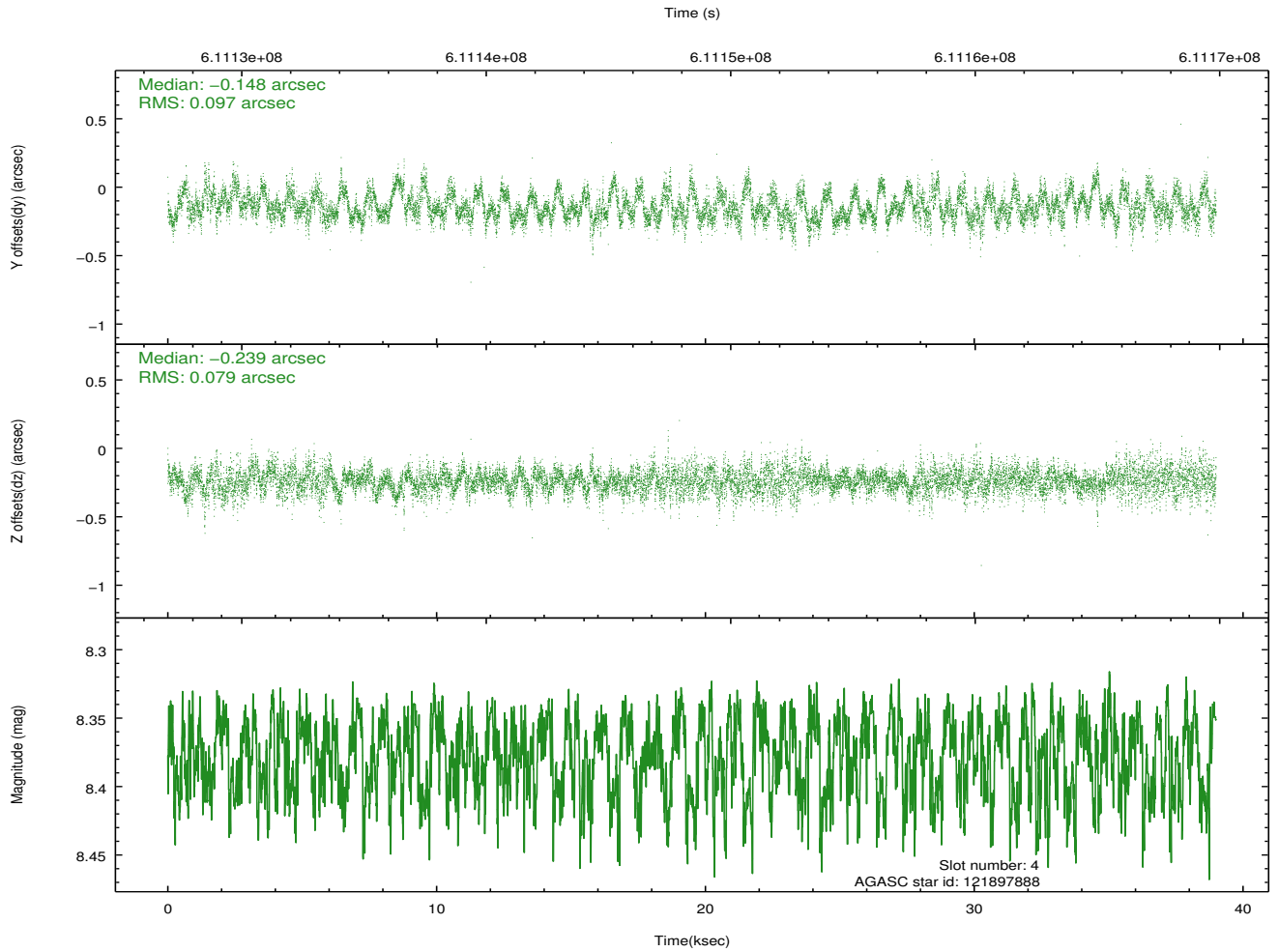
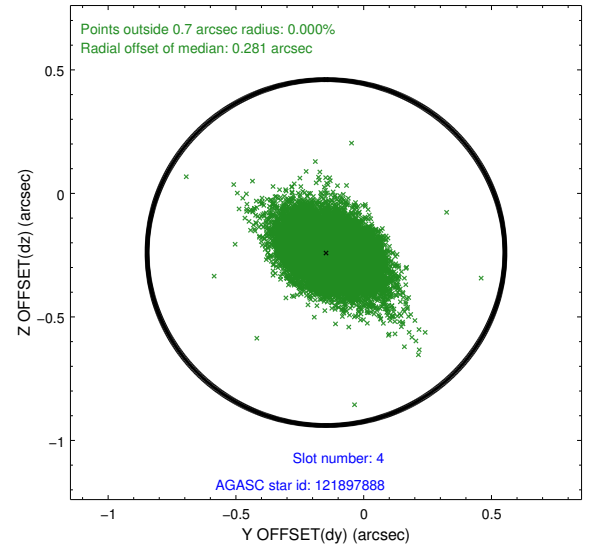
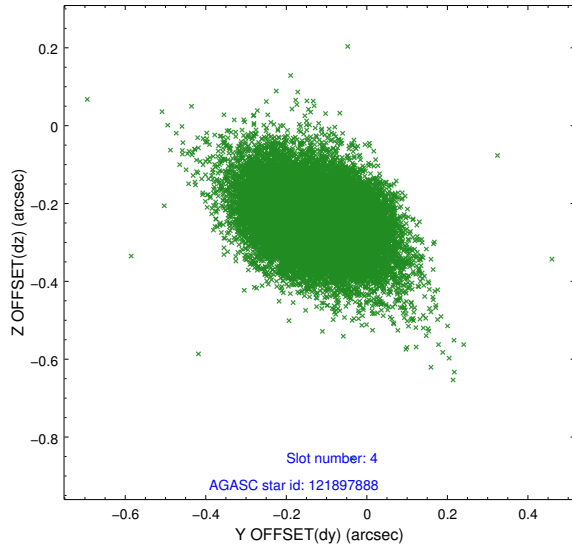
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.13	9513	0.036	-0.059	0.028	0.038	0.000000	0.000000	926.72	-1736.52
1	FID		ACIS-S-4	7.16	9513	0.388	0.027	0.021	0.032	0.000000	0.000000	2144.42	167.75
2	FID		ACIS-S-5	7.15	9513	-0.451	0.042	0.014	0.034	0.000000	0.000000	-1822.68	161.23
3	GUIDE	used	121897216	9.41	19000	0.044	-0.042	0.189	0.324	235.846781	9.213451	2277.89	-440.57
4	GUIDE	used	121897888	8.38	19015	-0.148	-0.239	0.131	0.218	236.124760	8.849054	1057.97	658.93
5	GUIDE	used	121903368	8.37	18954	-0.153	-0.073	0.147	0.260	236.663601	8.369844	-1154.56	1985.02
6	GUIDE	used	122427184	9.35	18996	0.361	0.540	0.176	0.301	236.761436	9.474791	-730.87	-1984.72
7	GUIDE	used	121897576	9.52	18982	-0.127	-0.181	0.215	0.362	235.879886	9.212832	2162.06	-461.17

2.4 Star Slots

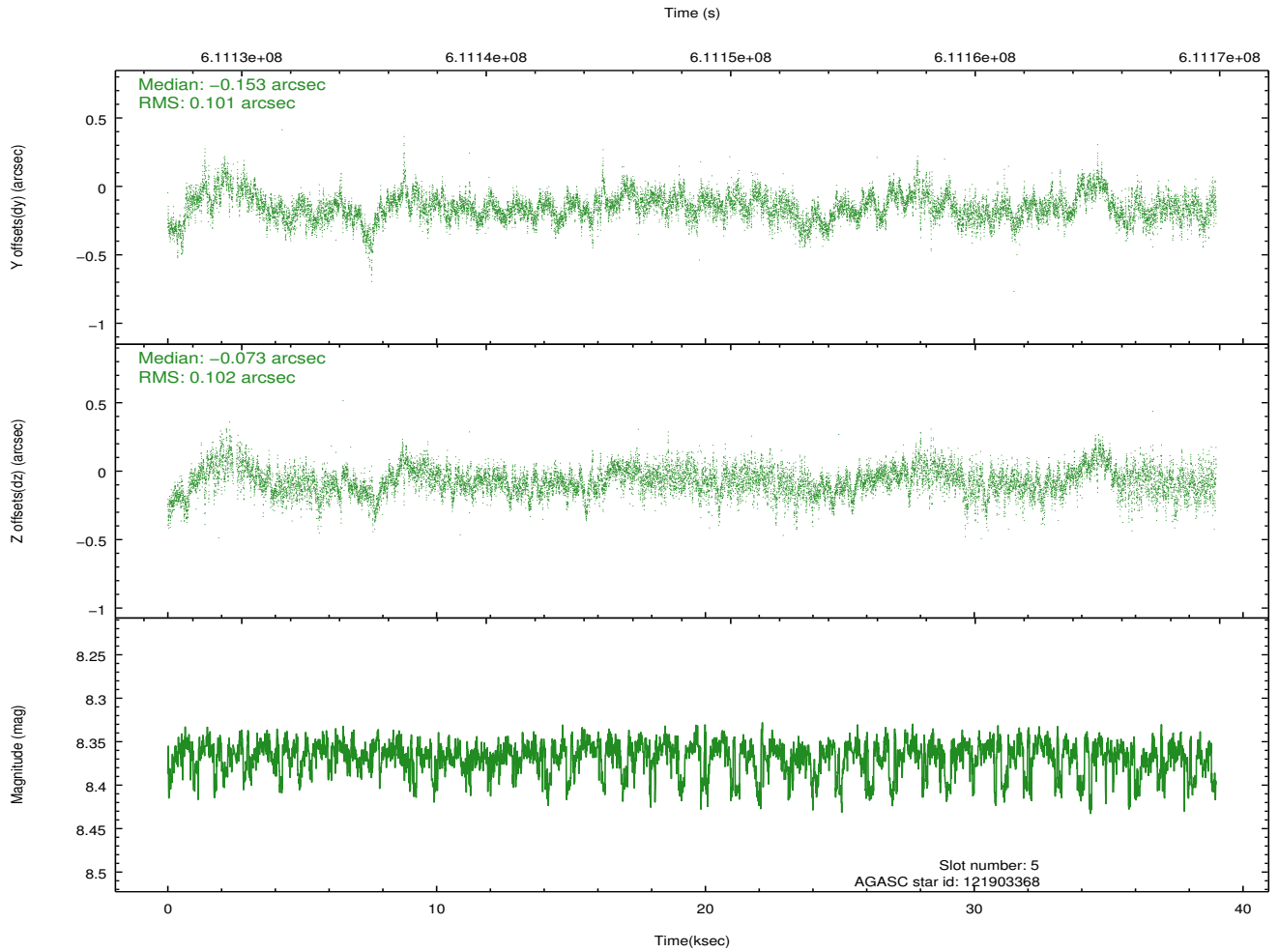
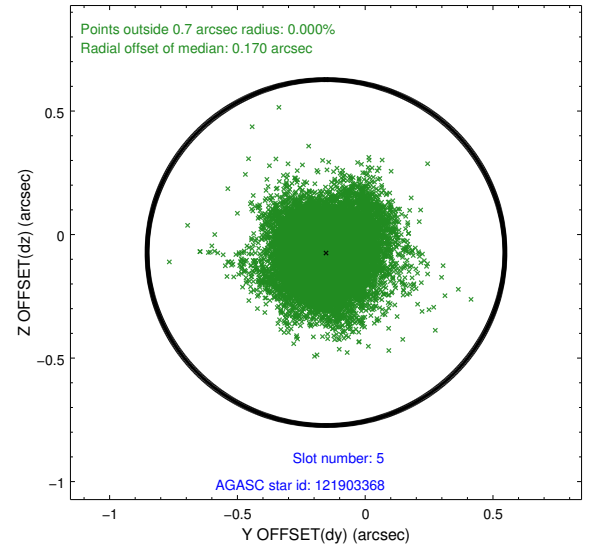
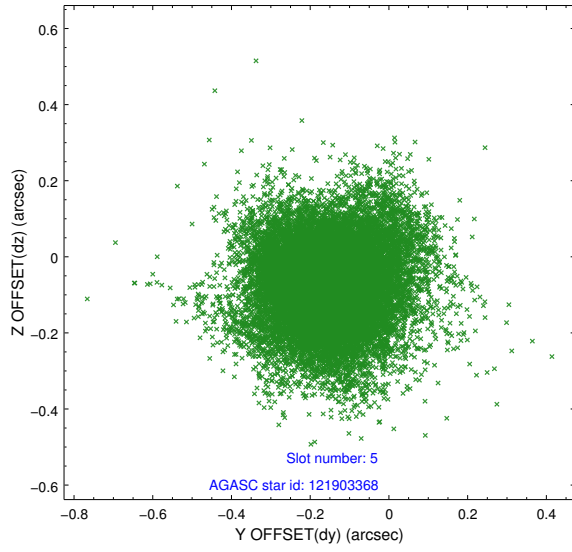
2.4.1 Slot 3



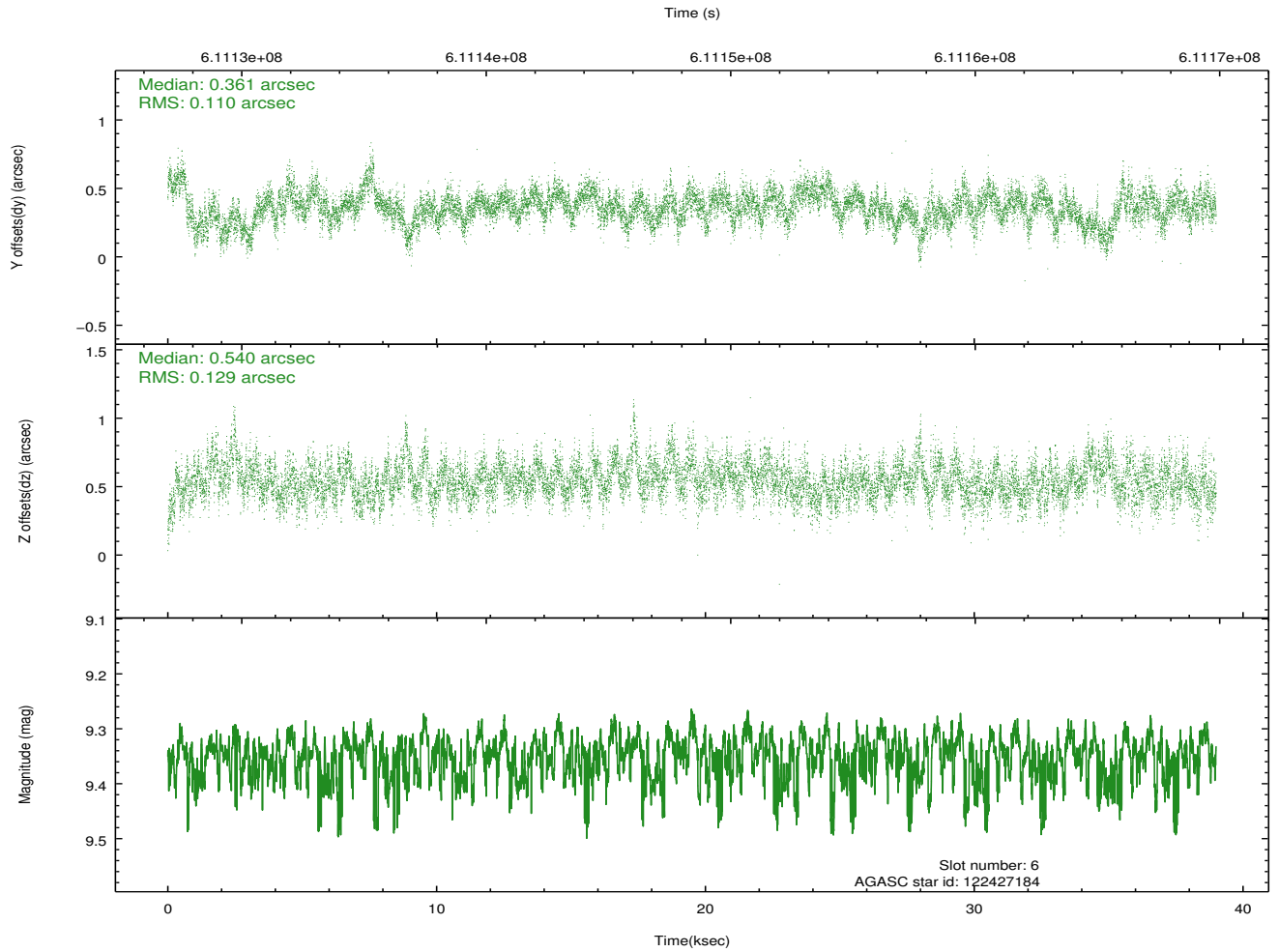
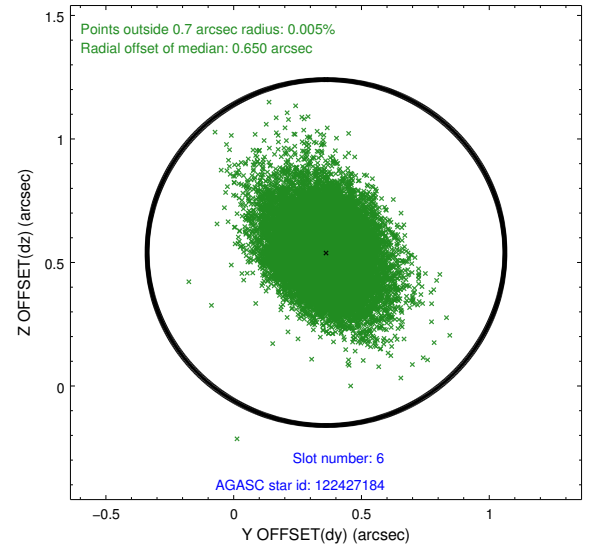
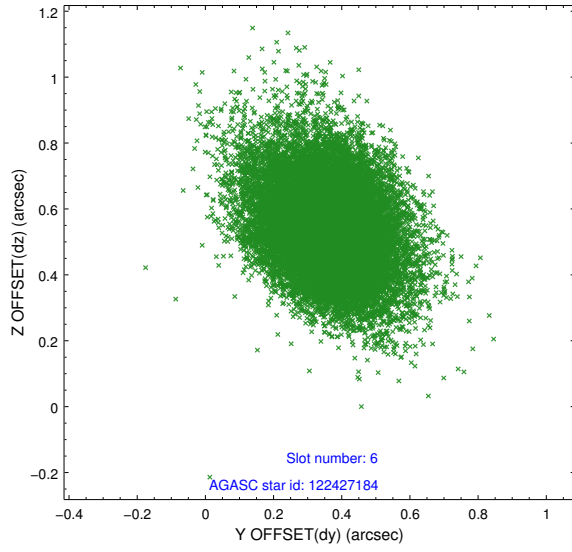
2.4.2 Slot 4



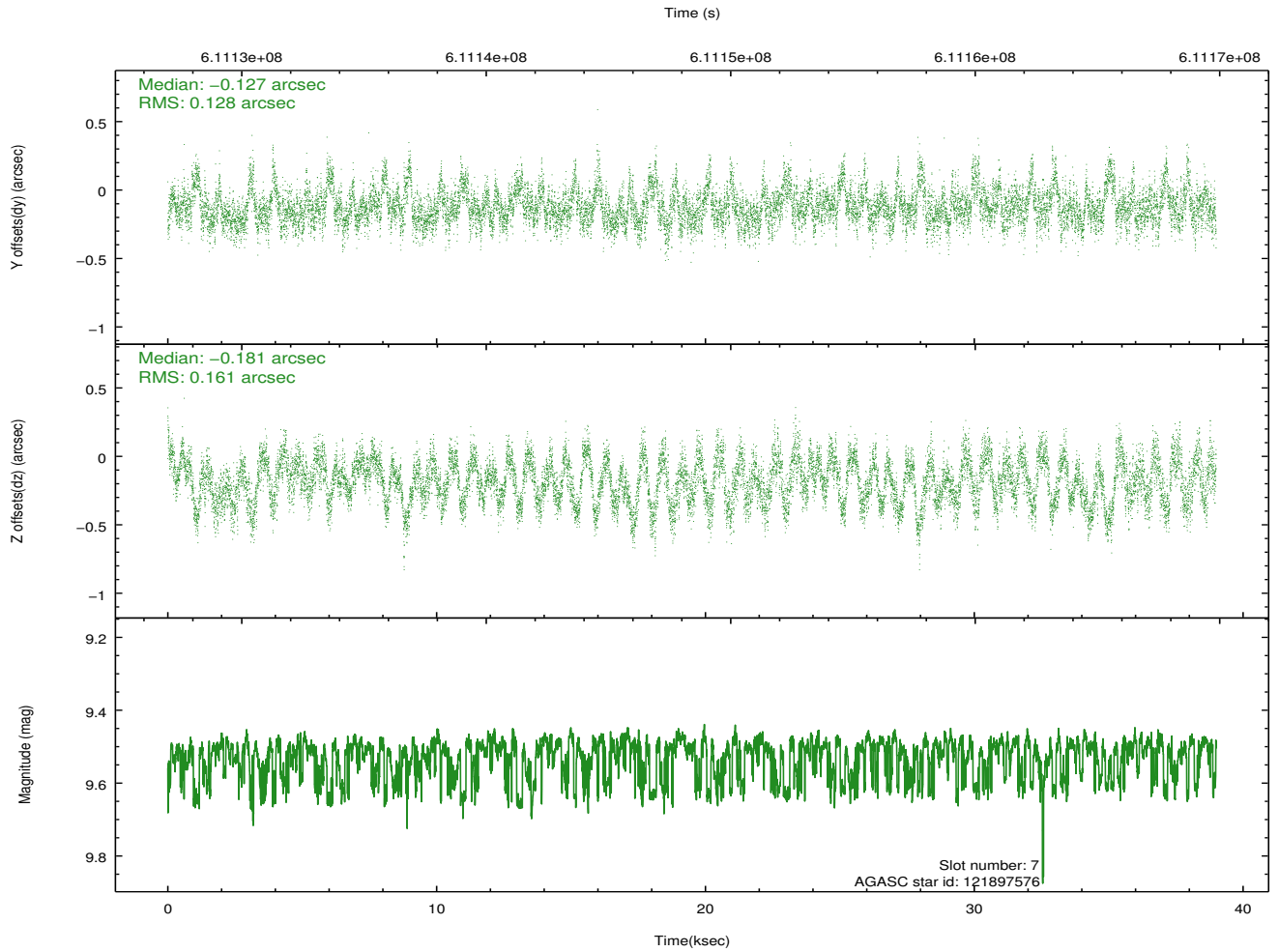
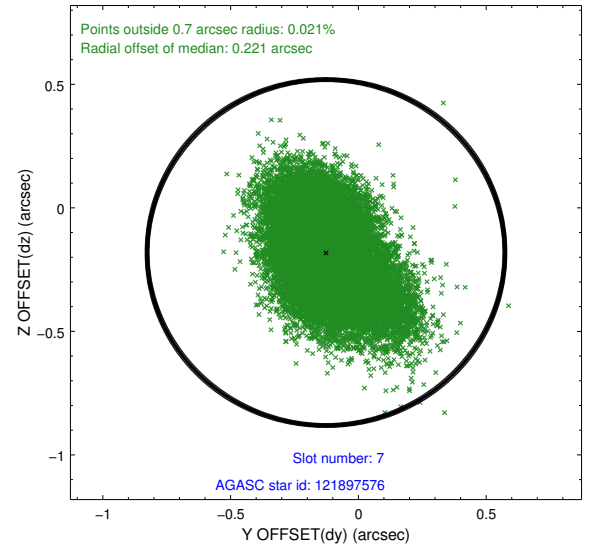
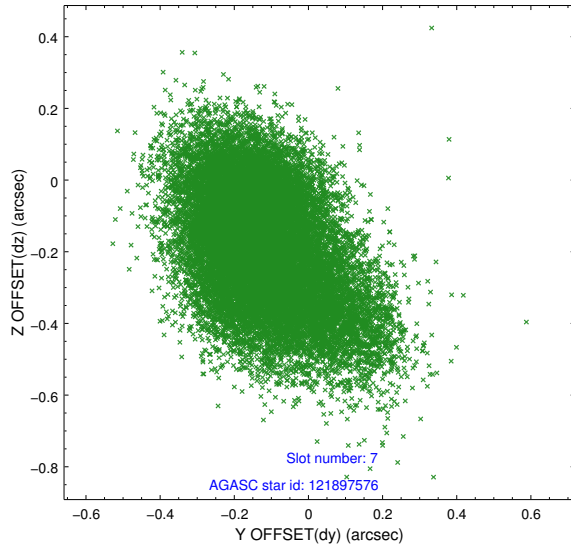
2.4.3 Slot 5



2.4.4 Slot 6

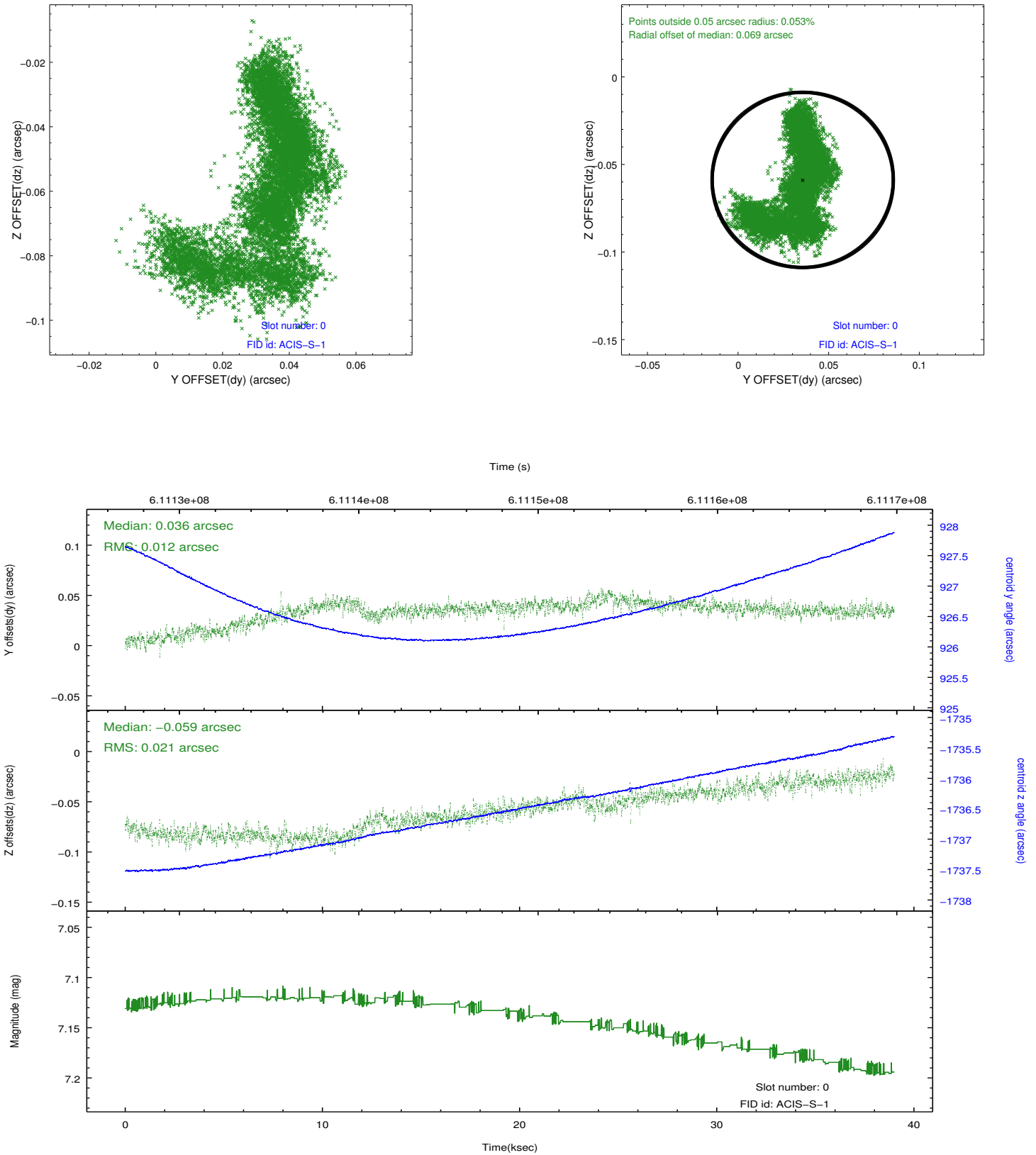


2.4.5 Slot 7

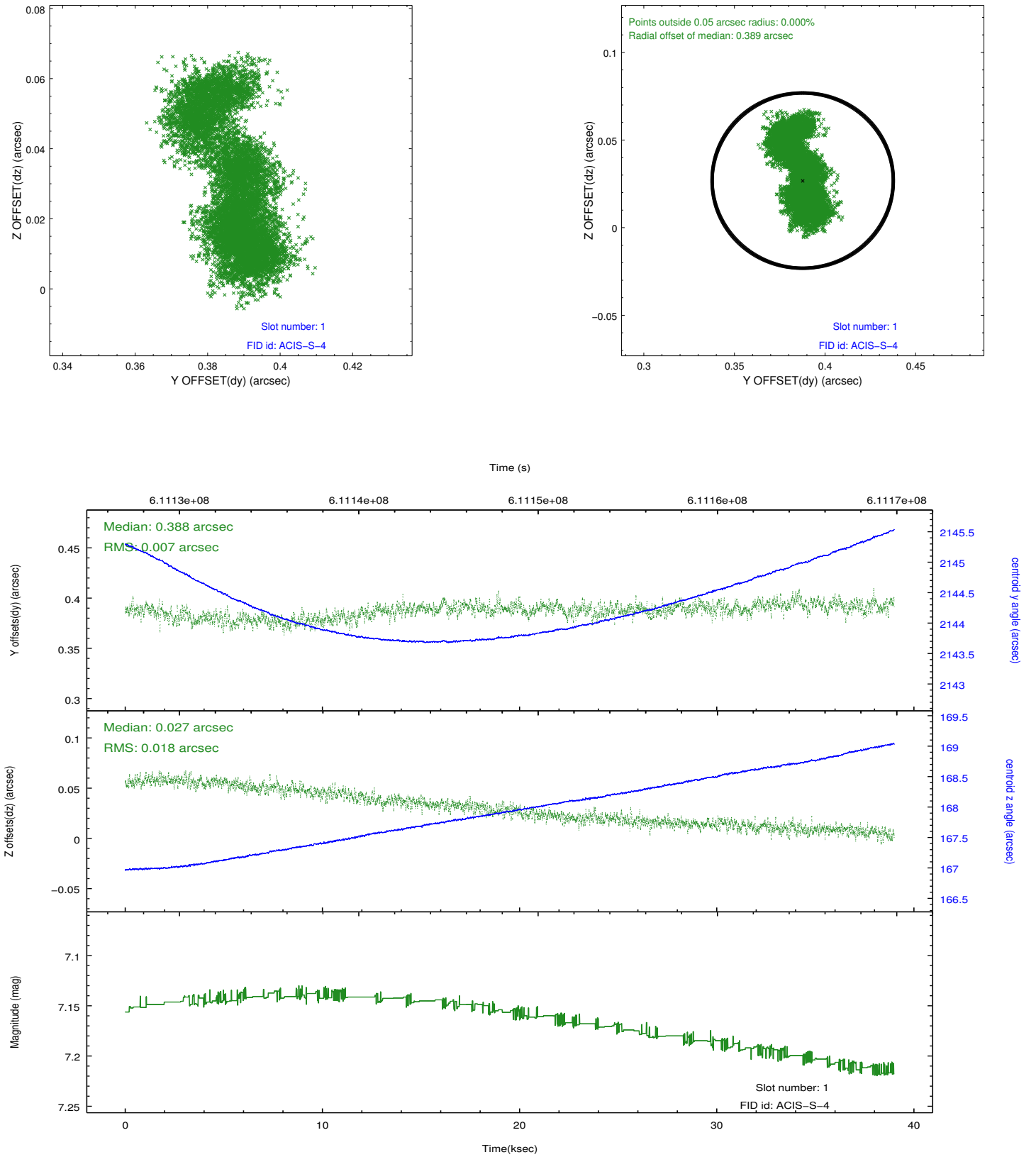


2.5 FID Slots

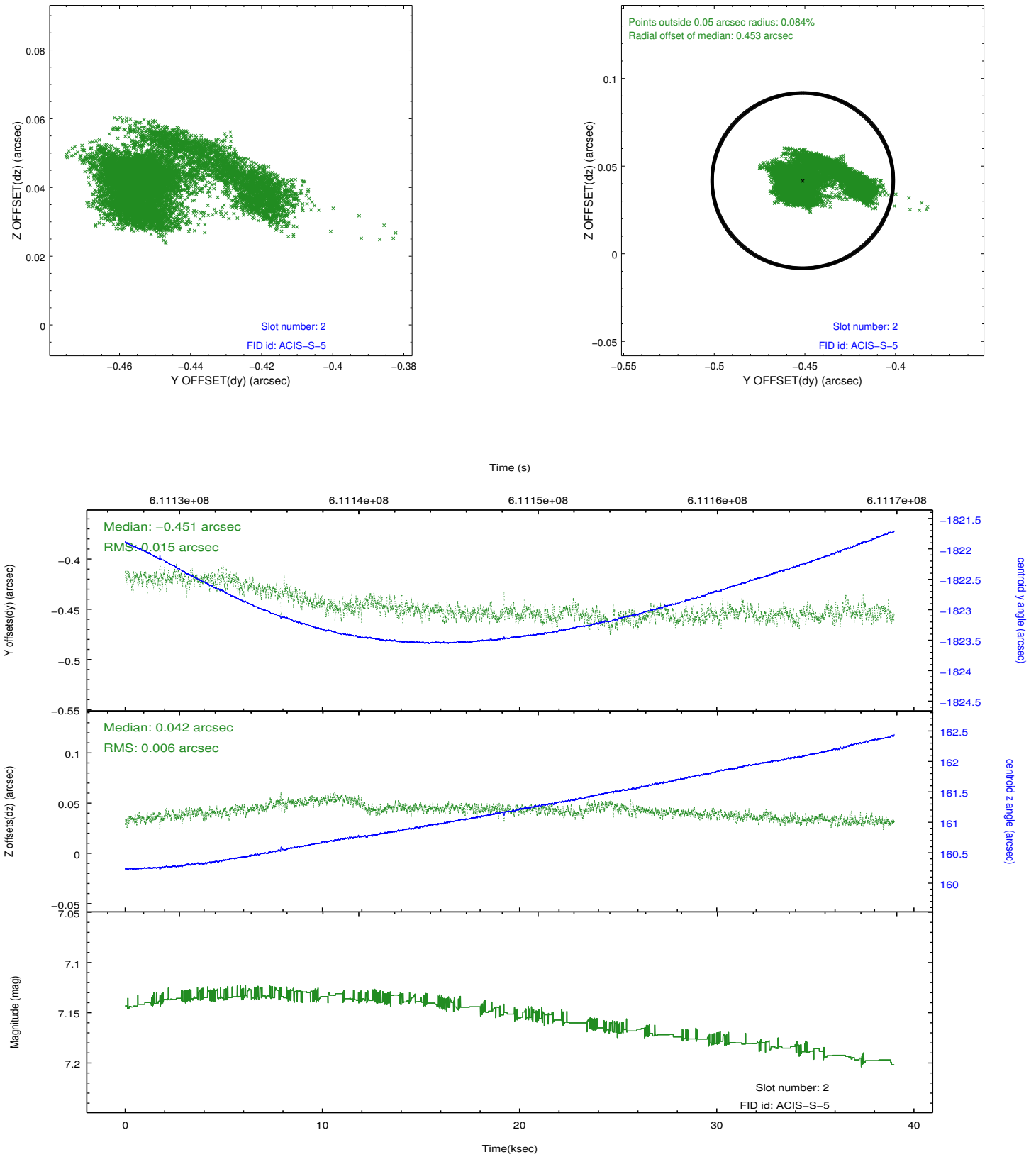
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.948400299668

A.2 Comments