

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19536 - L2 Version 1
Chandra X-Ray Center

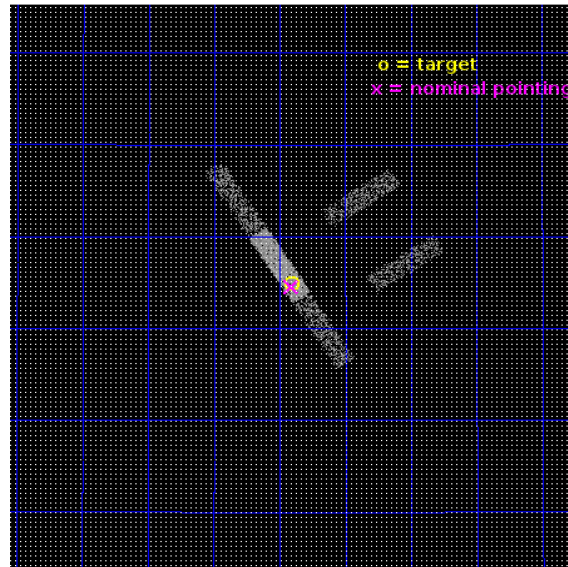
L2 Processing Date : Feb 1 2017

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1 Front

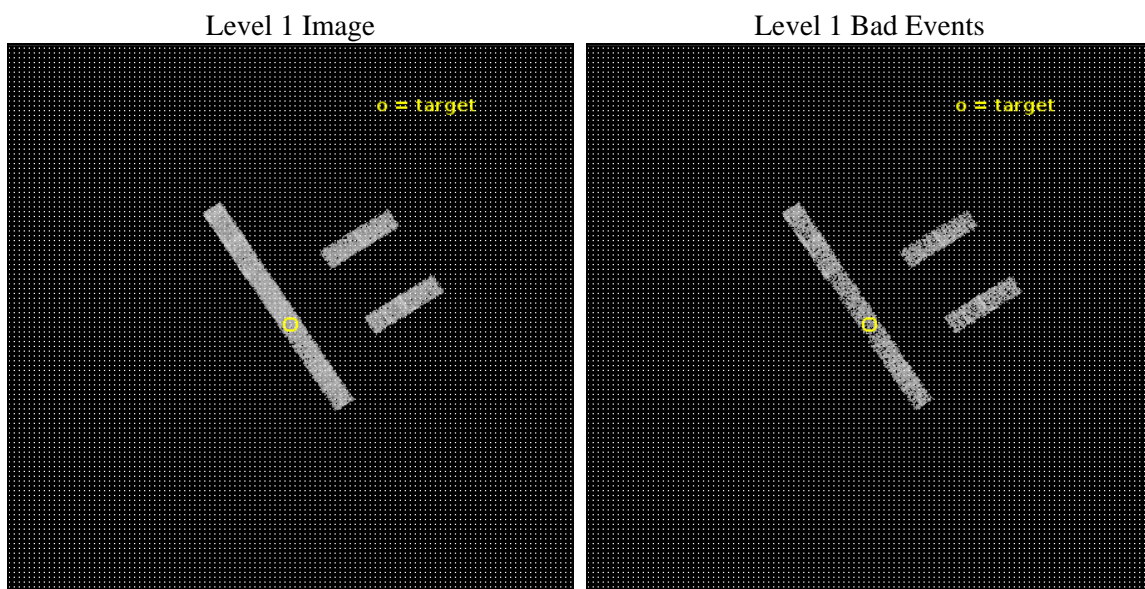
seq_num	703384	Sequence number
obs_id	19536	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ082024.21+233450.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.100833	Observer's specified target RA [deg]
dec_targ	23.580694	Observer's specified target Dec [deg]
ra_nom	125.10254604085	Nominal RA [deg]
dec_nom	23.575757236401	Nominal Dec [deg]
roll_nom	237.05726846122	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3072.8849793673	Sum of GTIs [s]
livetime	2951.7453501953	Livetime [s]
ontime2	3072.7208193541	Sum of GTIs [s]
ontime3	3072.8028993607	Sum of GTIs [s]
ontime6	3072.8439394236	Sum of GTIs [s]
ontime7	3072.8849793673	Sum of GTIs [s]
ontime8	3072.761859417	Sum of GTIs [s]
l2events	5997	Number of level 2 events



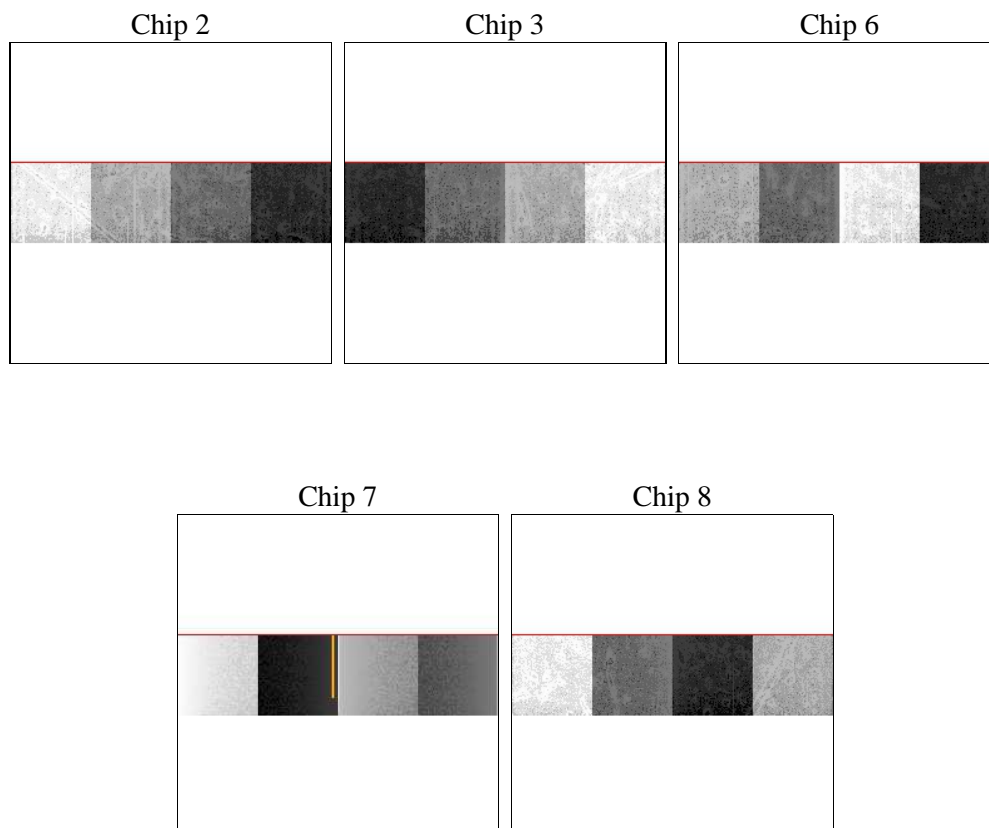
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3072.8849793673	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3072.7208193541	Sum of GTIs [s]
date	2017-02-02T01:13:01	Date and time of file creation	ontime3	3072.8028993607	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3072.8439394236	Sum of GTIs [s]
			ontime7	3072.8849793673	Sum of GTIs [s]
			ontime8	3072.761859417	Sum of GTIs [s]
			l1events	35498	Number of level 1 events

2.1.4 Events

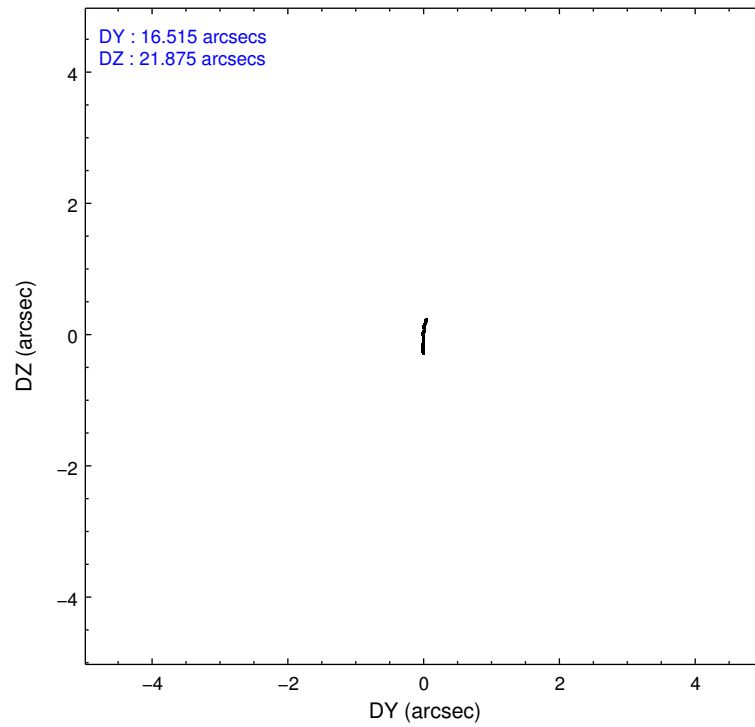
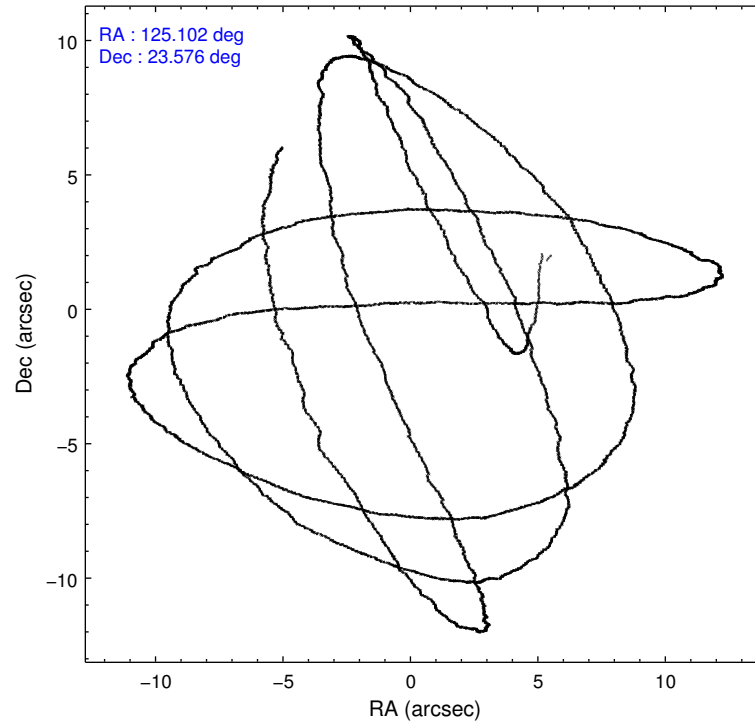
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6286	5932	6803	7570	8907
rejected events	5567	5224	5982	3945	6716
rejected %	88%	88%	87%	52%	75%

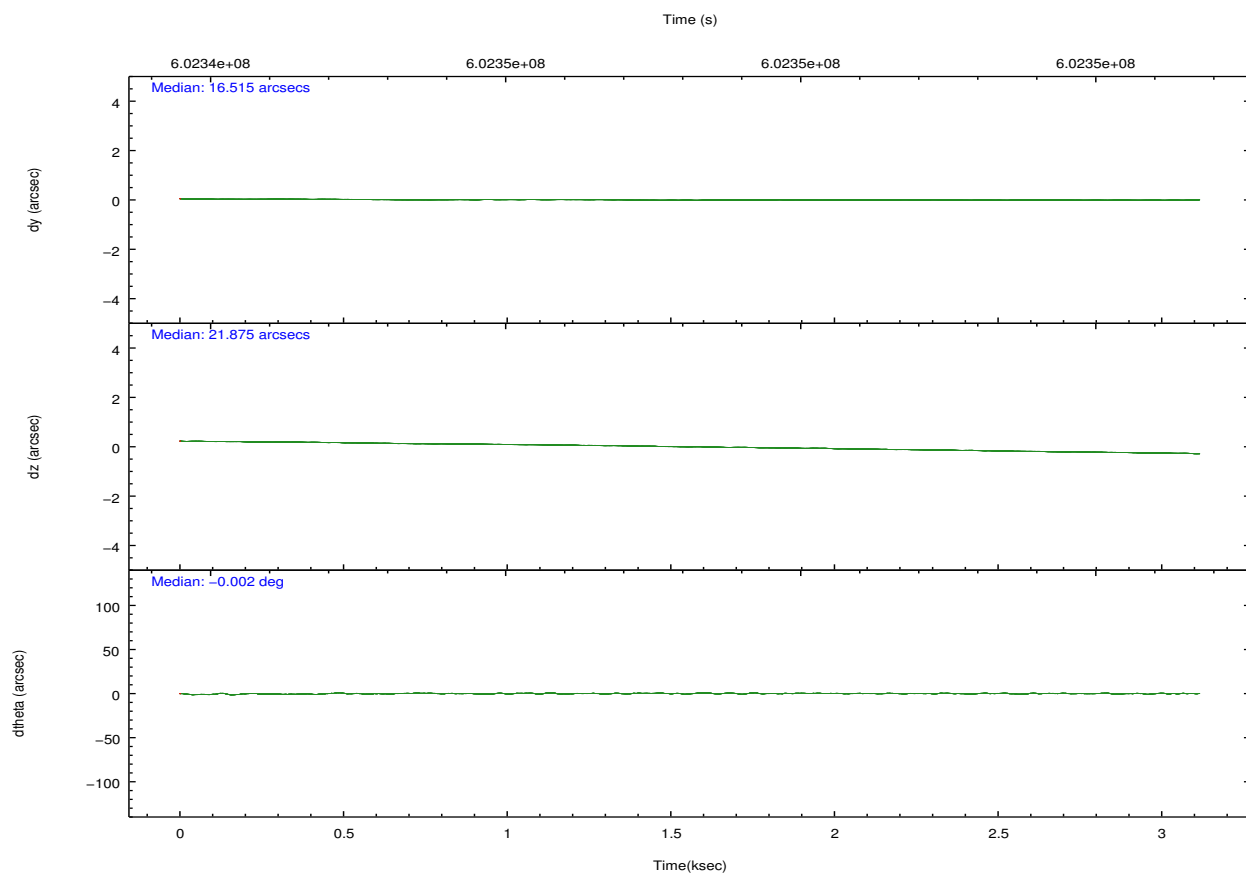
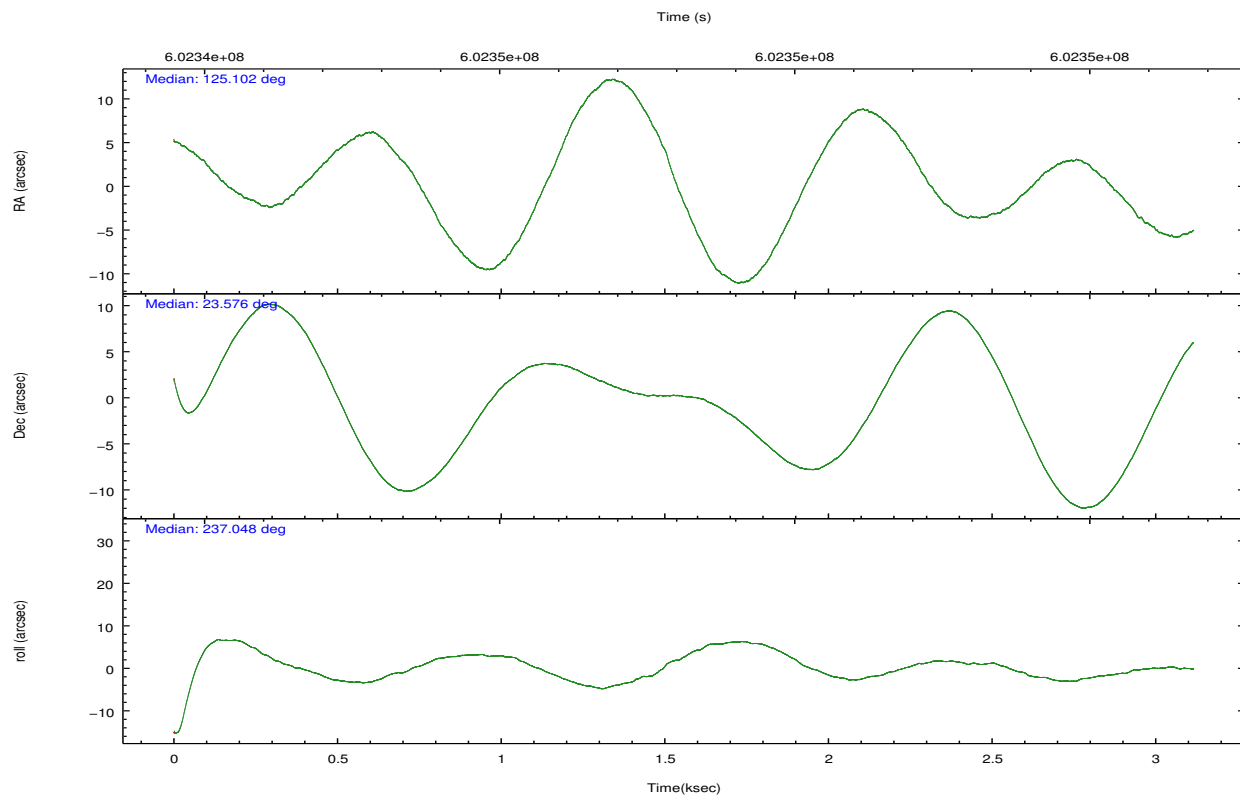
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	212	221	287	403	633
	3%	3%	4%	5%	7%
grade 1 events	1	3	0	12	9
	0%	0%	0%	0%	0%
grade 2 events	170	135	151	743	487
	2%	2%	2%	9%	5%
grade 3 events	106	93	103	366	241
	1%	1%	1%	4%	2%
grade 4 events	103	125	103	379	228
	1%	2%	1%	5%	2%
grade 5 events	201	251	277	778	426
	3%	4%	4%	10%	4%
grade 6 events	128	134	177	1735	602
	2%	2%	2%	22%	6%
grade 7 events	5365	4970	5705	3154	6281
	85%	83%	83%	41%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	125.103698	125.1025460408474	CCD I2 on	O1	Y
[deg] Pointing Dec	23.603145	23.5757572364007	CCD I3 on	Y	Y
[deg] Pointing Roll	236.900233	237.0572684612219	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	602345179.184000	602343800.68382	CCD S5 on	N	N
Observation start date	2017-02-01T14:05:10	2017-02-01T13:43:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	602348179.184000	602349256.75913	On-chip summing requested	N	N
Observation end date	2017-02-01T14:55:10	2017-02-01T15:14:16	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

2.3 Aspect



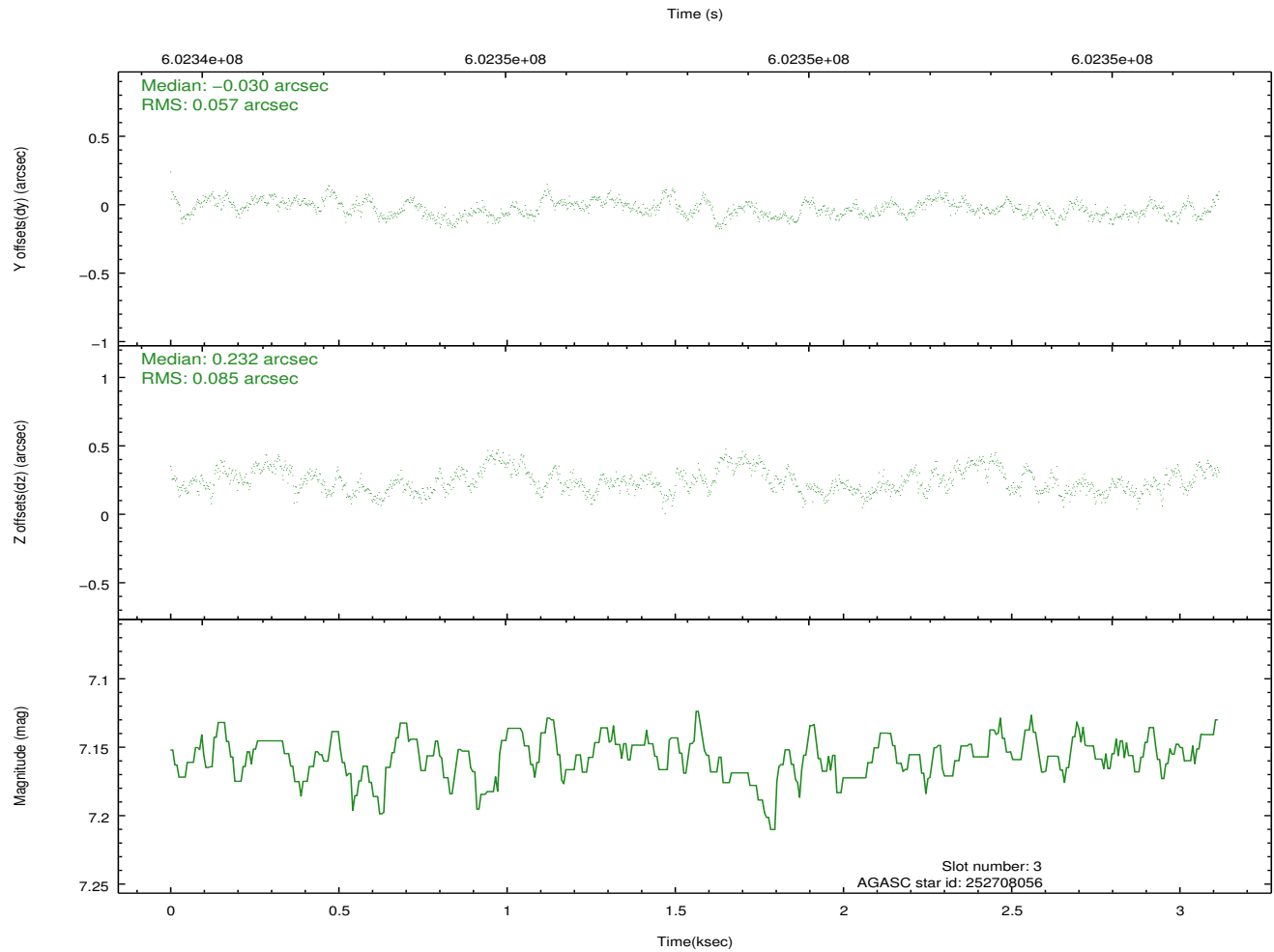
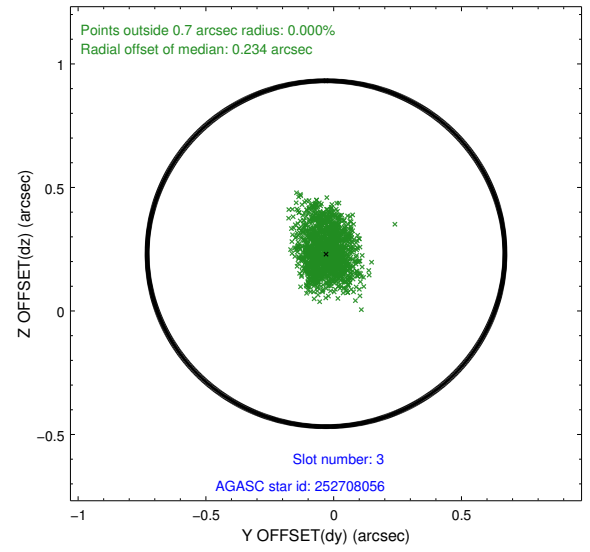
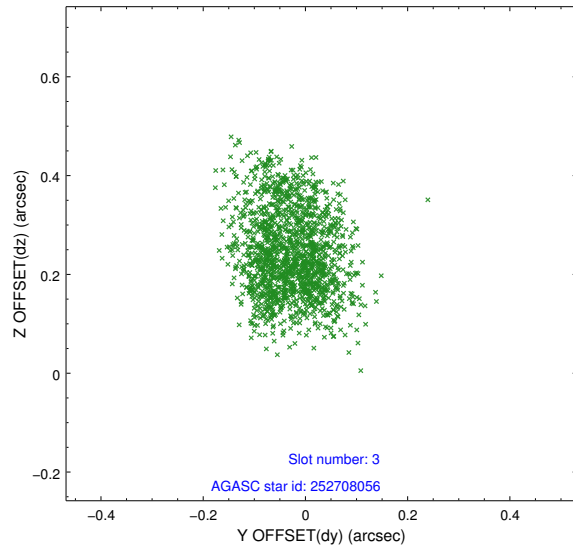


Slot Statistics

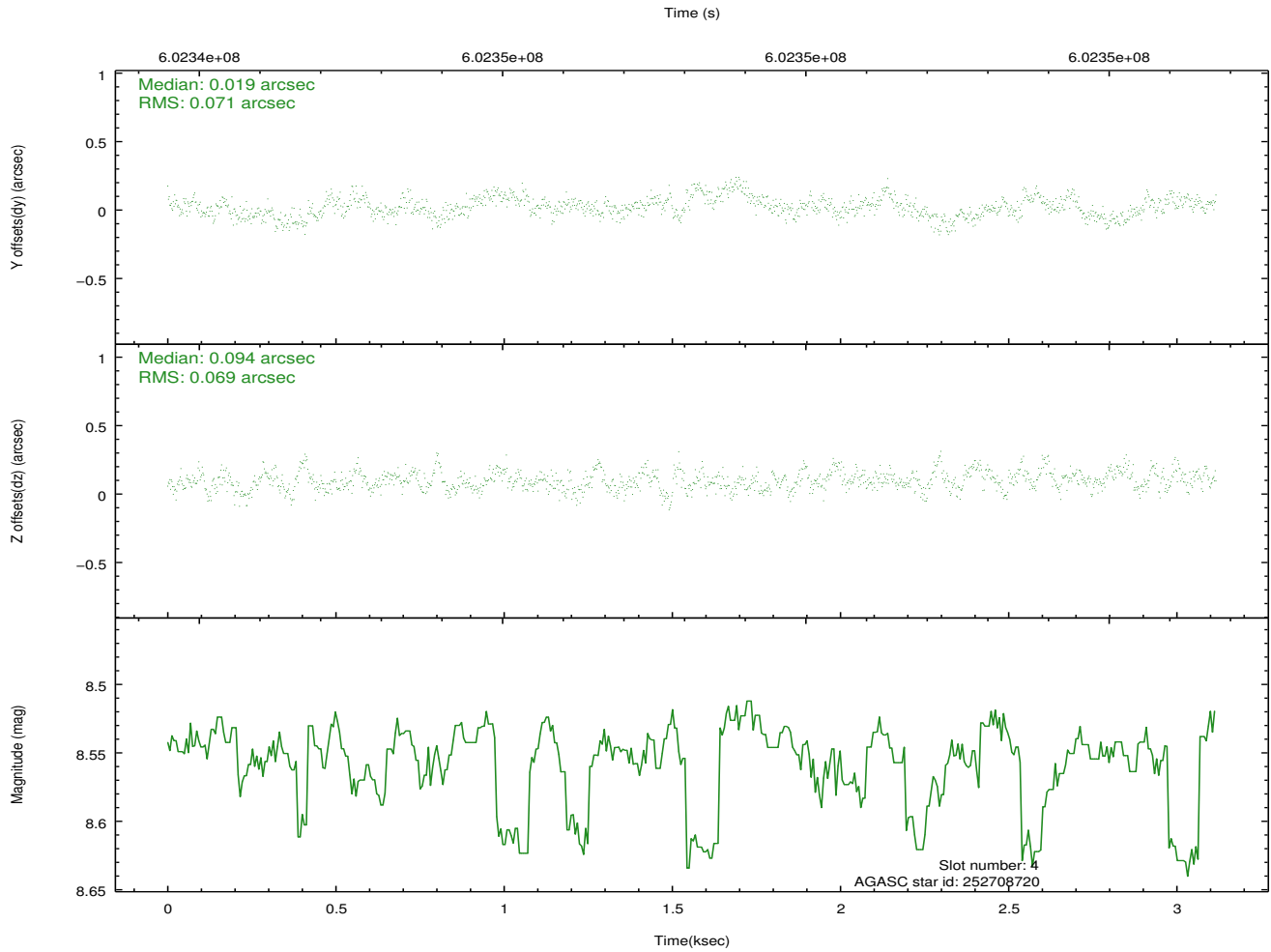
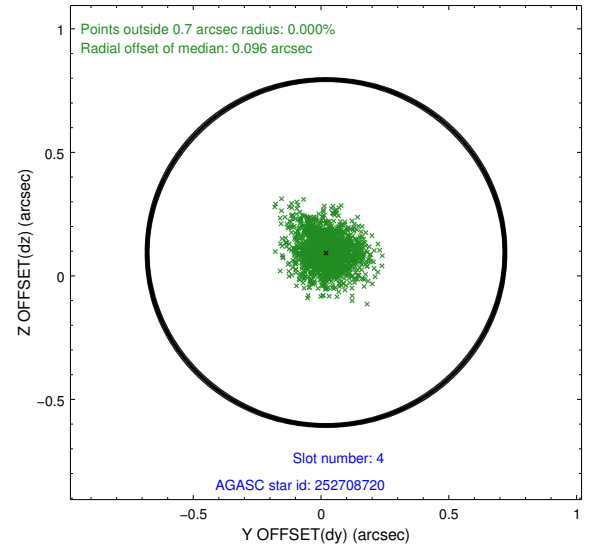
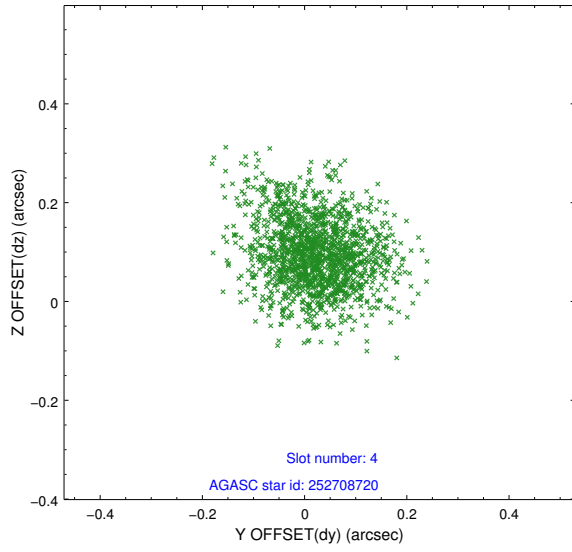
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	761	-0.224	-0.145	0.005	0.010	0.000000	0.000000	-769.81	-1743.55
1	FID		ACIS-S-4	7.07	761	0.253	0.125	0.006	0.010	0.000000	0.000000	2143.06	162.98
2	FID		ACIS-S-6	7.21	761	-0.057	0.028	0.007	0.012	0.000000	0.000000	395.03	802.66
3	GUIDE	used	252708056	7.16	1521	-0.030	0.232	0.109	0.177	124.788339	24.174731	-1158.35	-1991.46
4	GUIDE	used	252708720	8.55	1521	0.019	0.094	0.104	0.173	125.489823	24.023754	-1963.02	234.26
5	GUIDE	used	252715048	8.35	1521	0.131	0.137	0.123	0.192	125.003052	23.809326	-441.17	-682.30
6	GUIDE	used	254432704	8.33	1520	-0.048	-0.219	0.132	0.213	125.880586	23.534480	-1198.90	2278.90
7	GUIDE	used	252708744	9.28	1517	-0.081	-0.267	0.143	0.238	125.329650	23.559418	-276.46	712.06

2.4 Star Slots

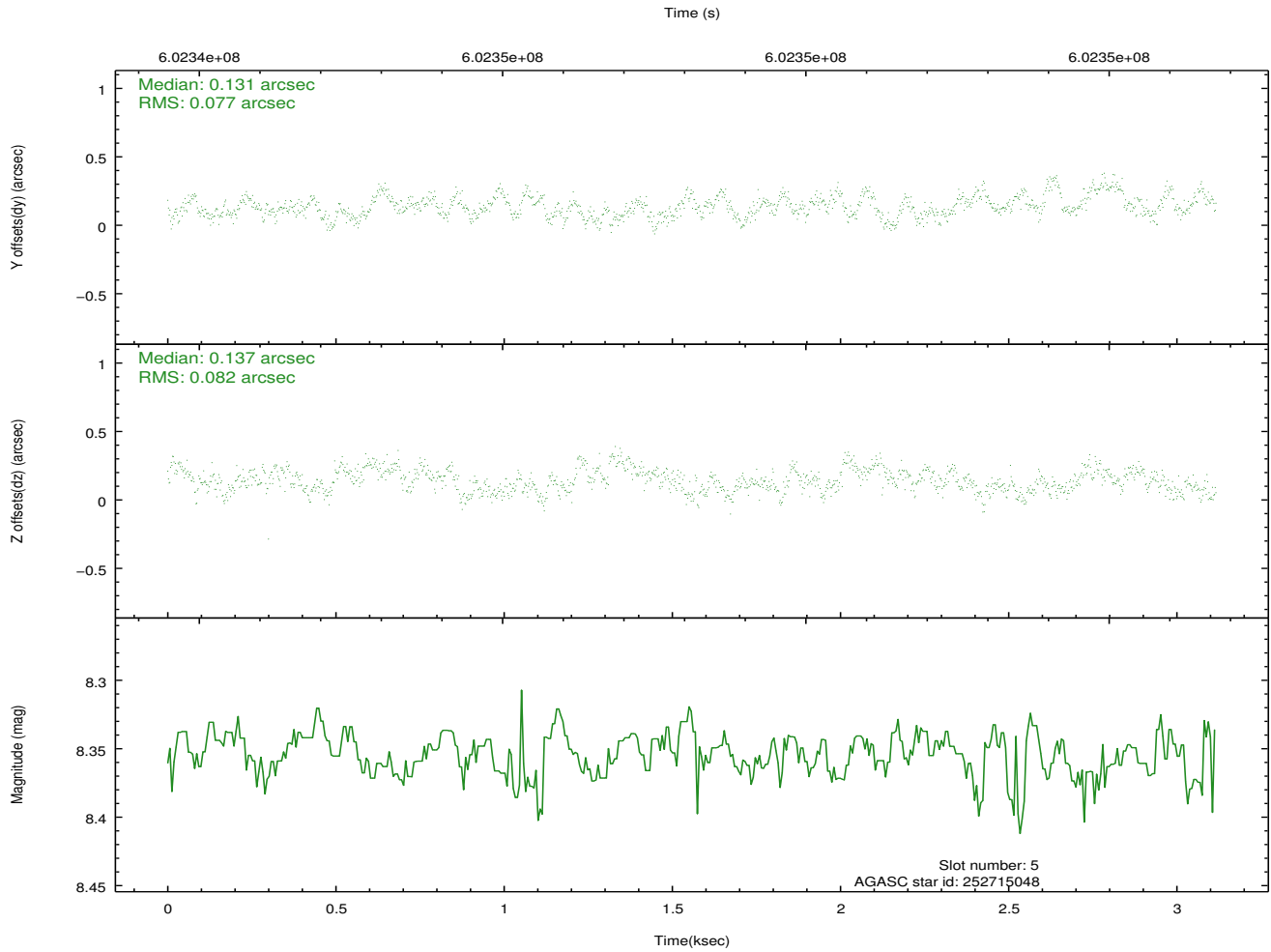
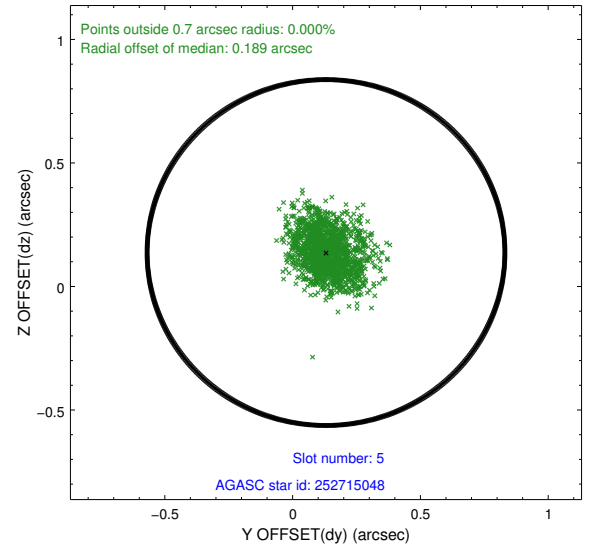
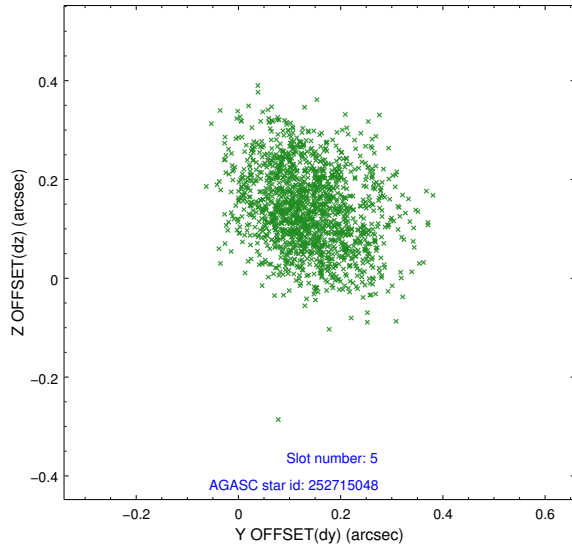
2.4.1 Slot 3



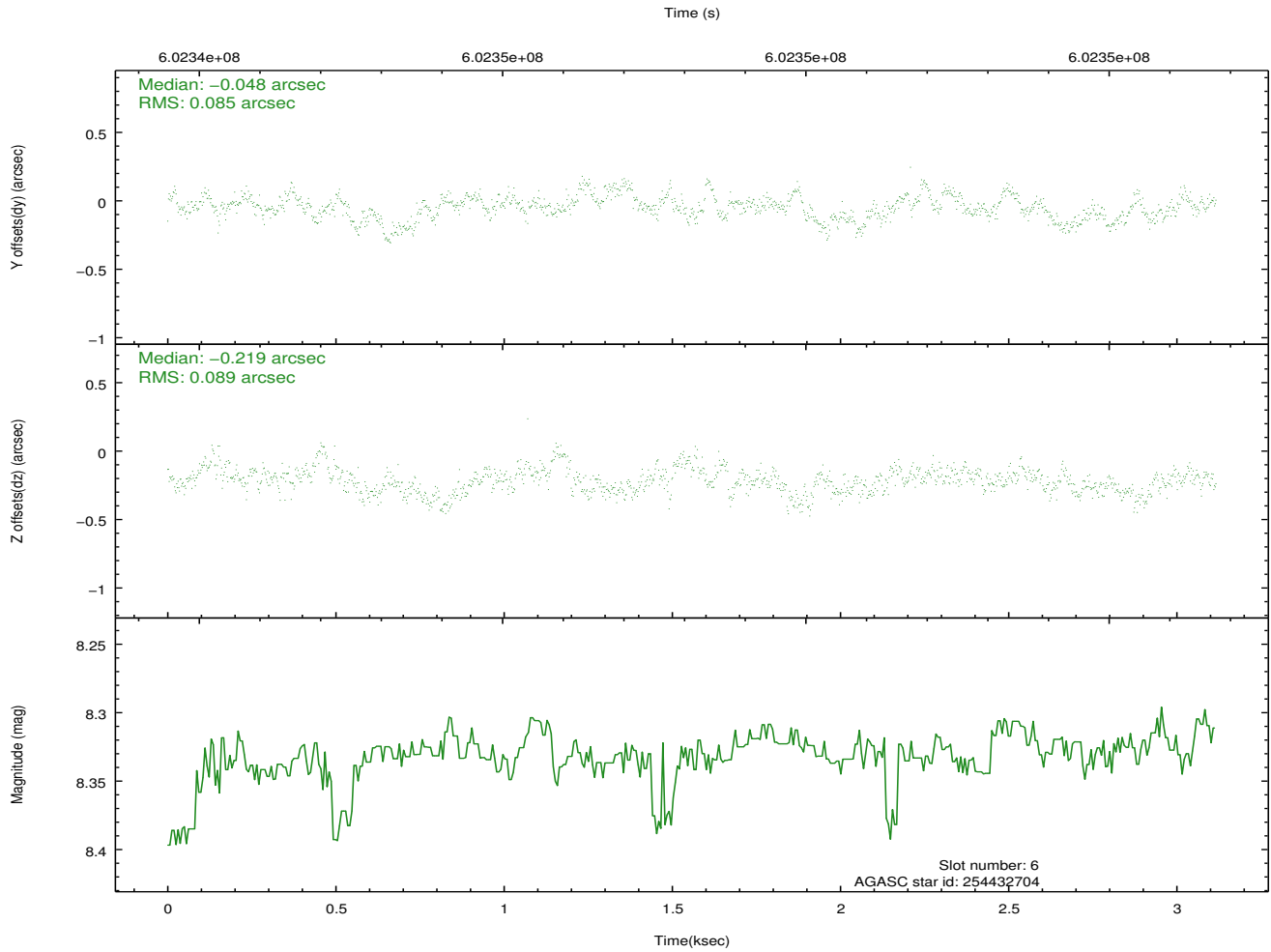
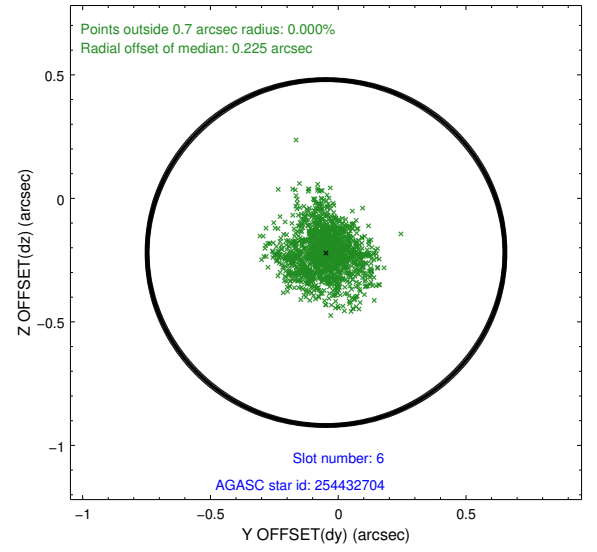
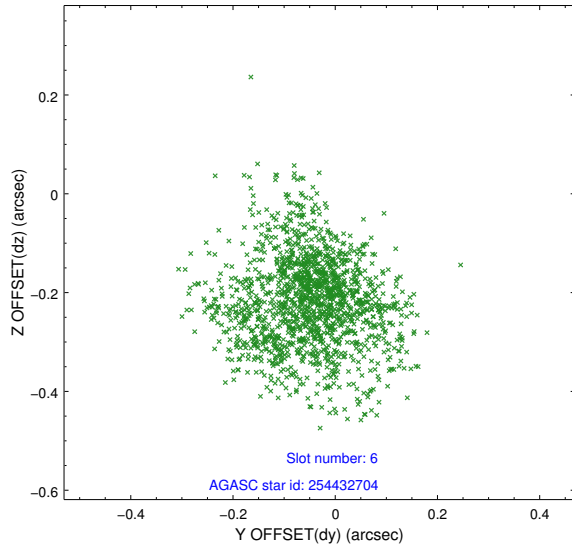
2.4.2 Slot 4



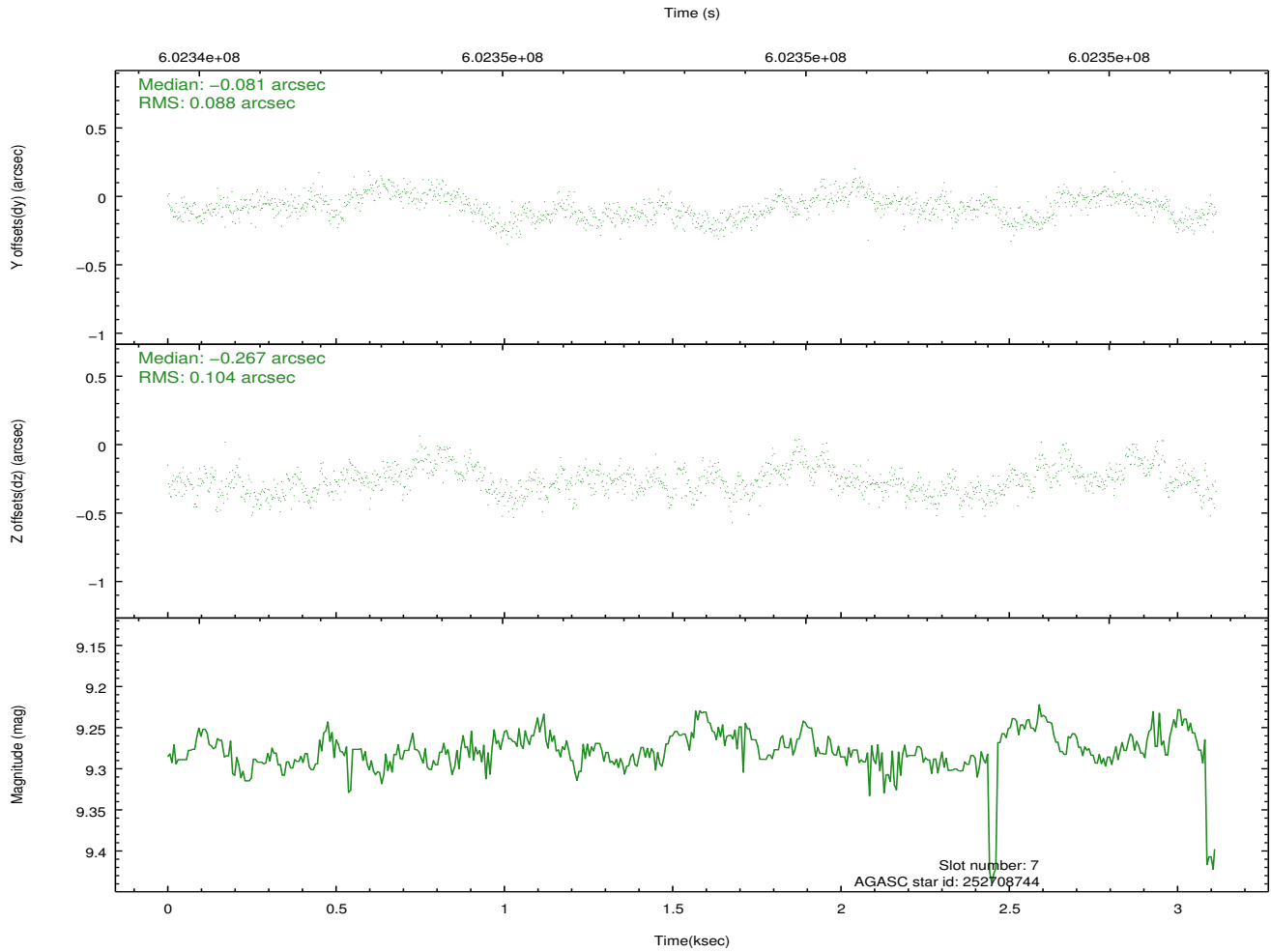
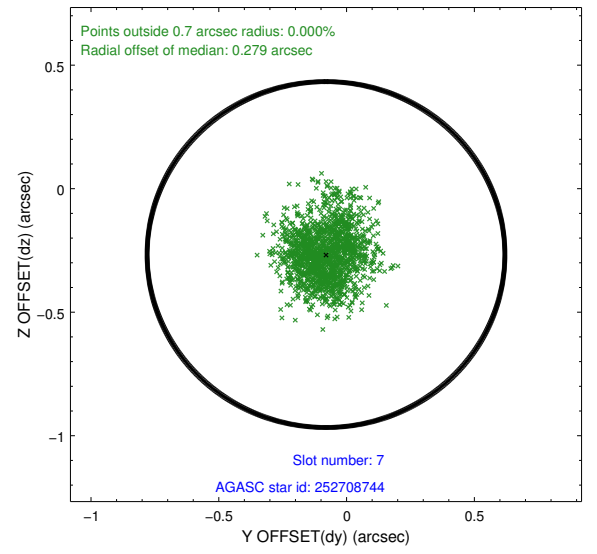
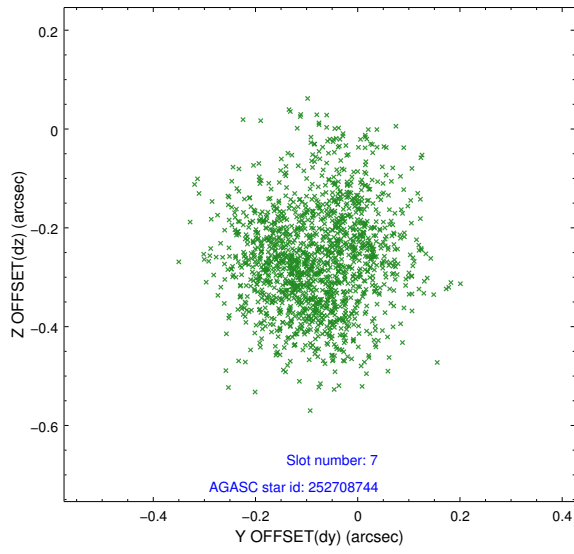
2.4.3 Slot 5



2.4.4 Slot 6

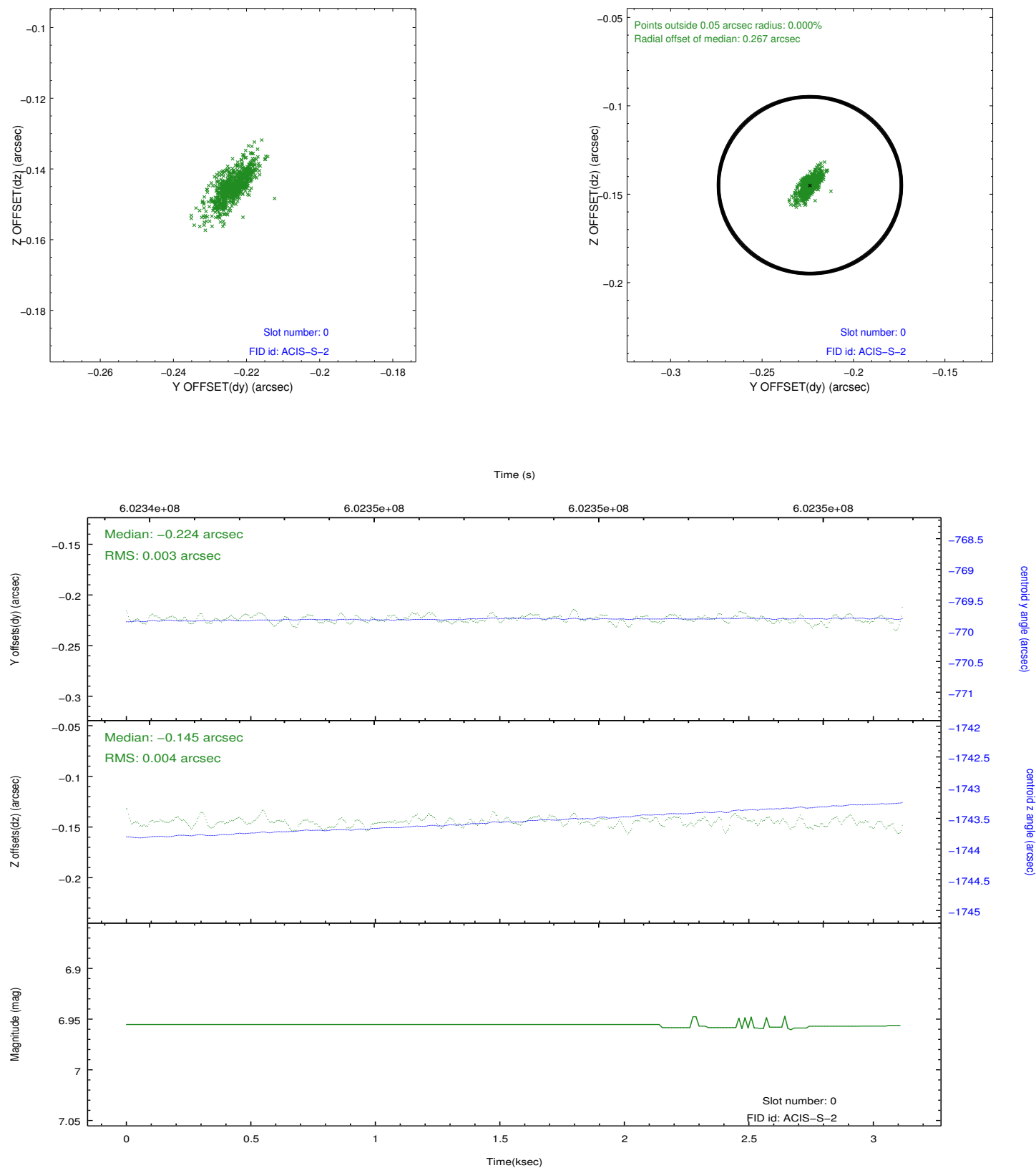


2.4.5 Slot 7

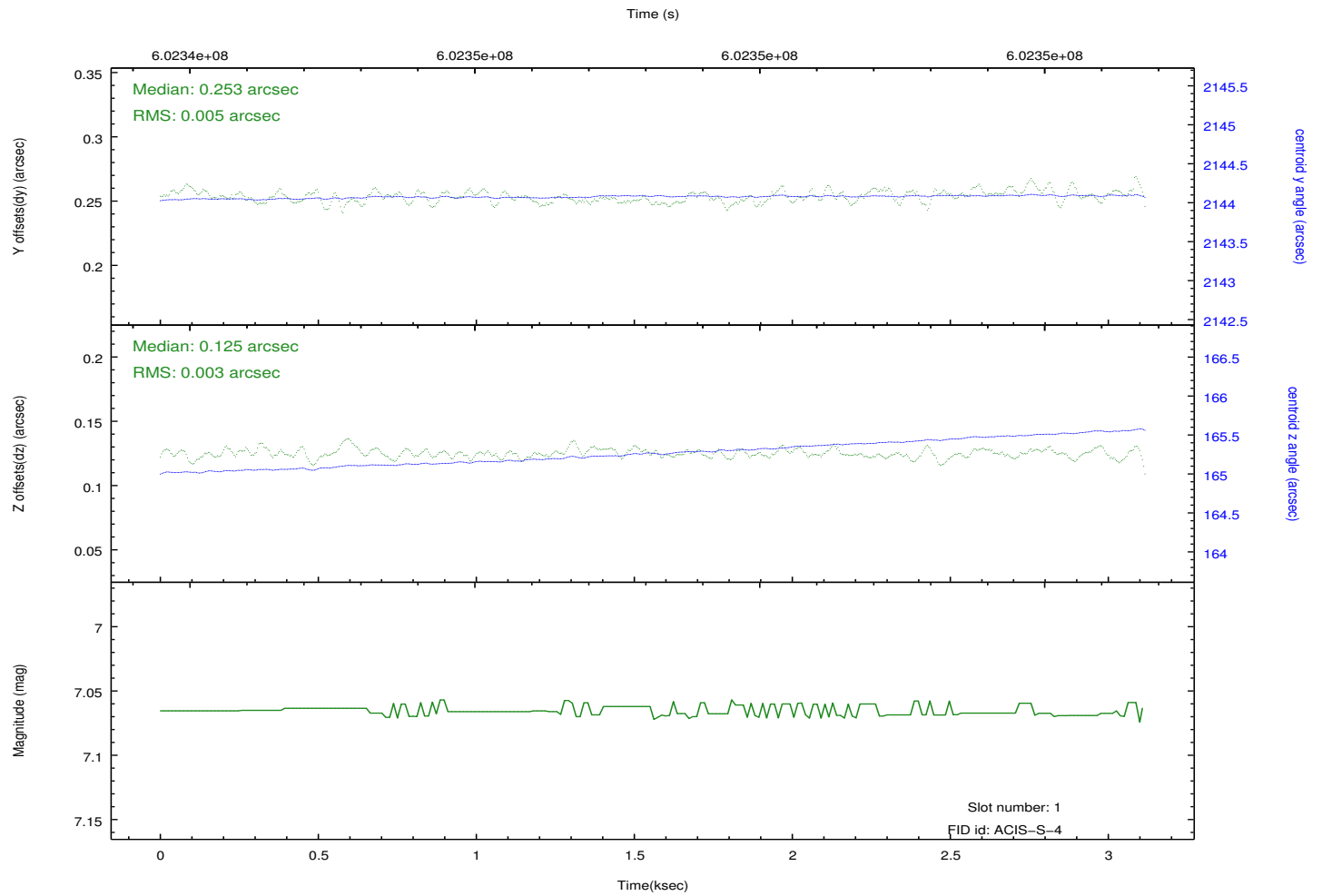
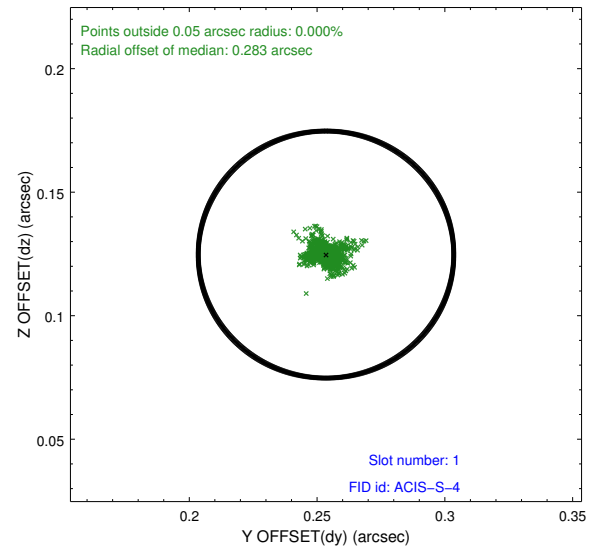
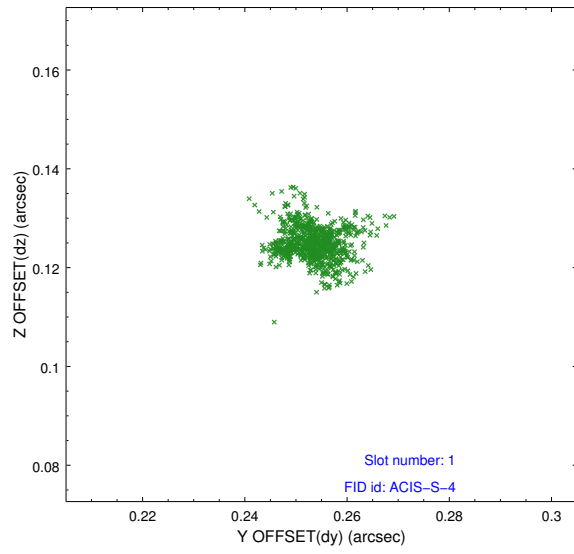


2.5 FID Slots

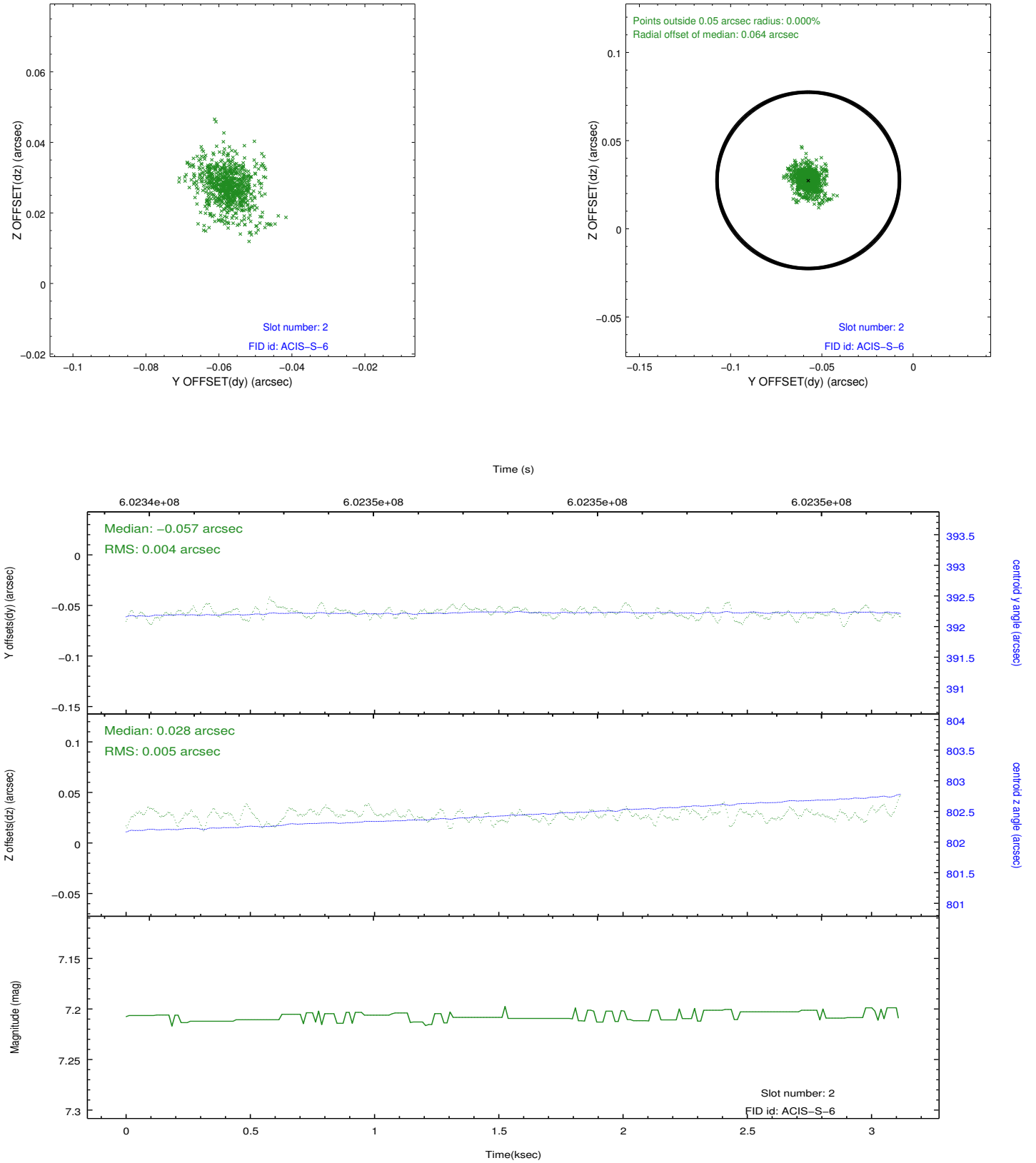
2.5.1 Slot 0



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)	2017.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0728849793673

A.2 Comments