

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17432 - L2 Version 1
Chandra X-Ray Center

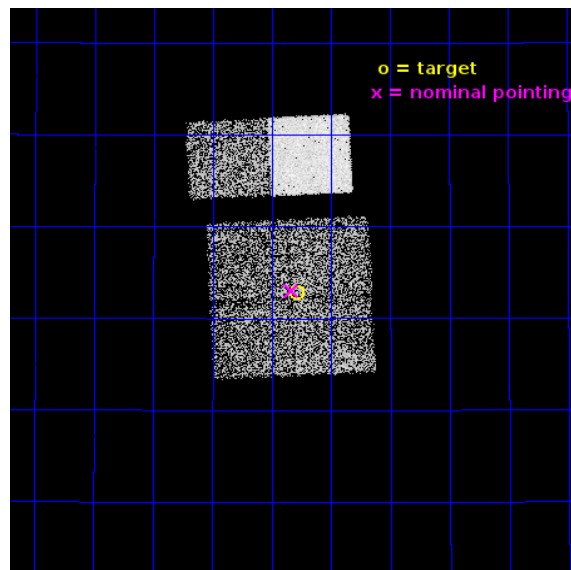
L2 Processing Date : Nov 3 2015

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

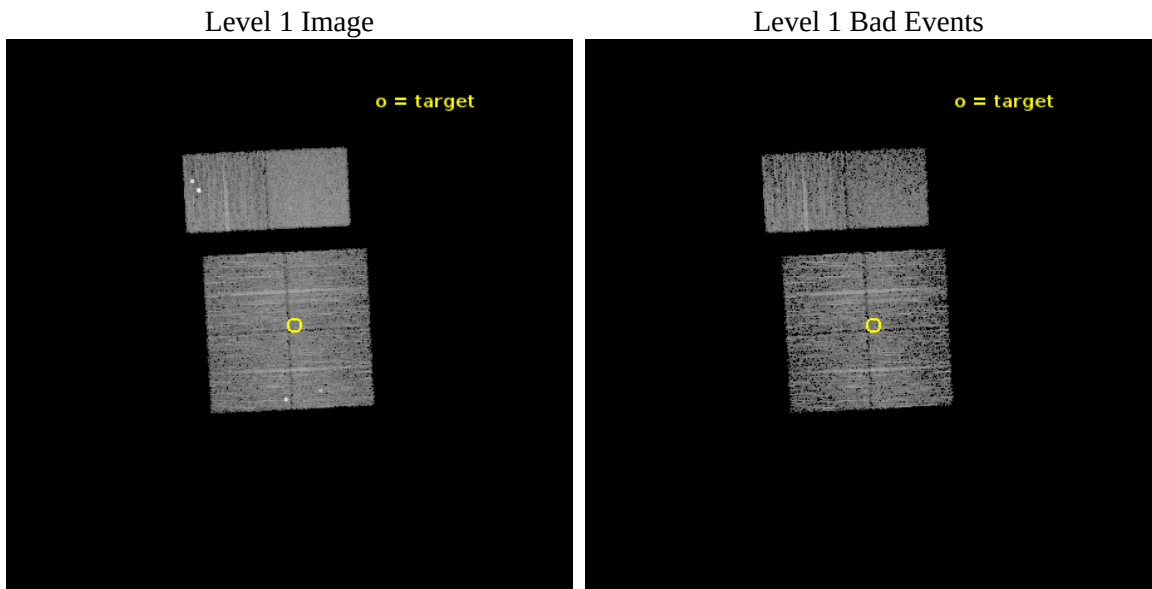
seq_num	901179	Sequence number
obs_id	17432	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.197083	Observer's specified target RA [deg]
dec_targ	34.214222	Observer's specified target Dec [deg]
ra_nom	217.20883360574	Nominal RA [deg]
dec_nom	34.21701997903	Nominal Dec [deg]
roll_nom	357.20217471396	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6210.3175102472	Sum of GTIs [s]
livetime	6131.6787305282	Livetime [s]
ontime0	6213.4353705645	Sum of GTIs [s]
ontime1	6213.4764105082	Sum of GTIs [s]
ontime2	6213.5174505711	Sum of GTIs [s]
ontime3	6210.3175102472	Sum of GTIs [s]
ontime6	6213.6405705214	Sum of GTIs [s]
ontime7	6213.5995305777	Sum of GTIs [s]
l2events	36026	Number of level 2 events



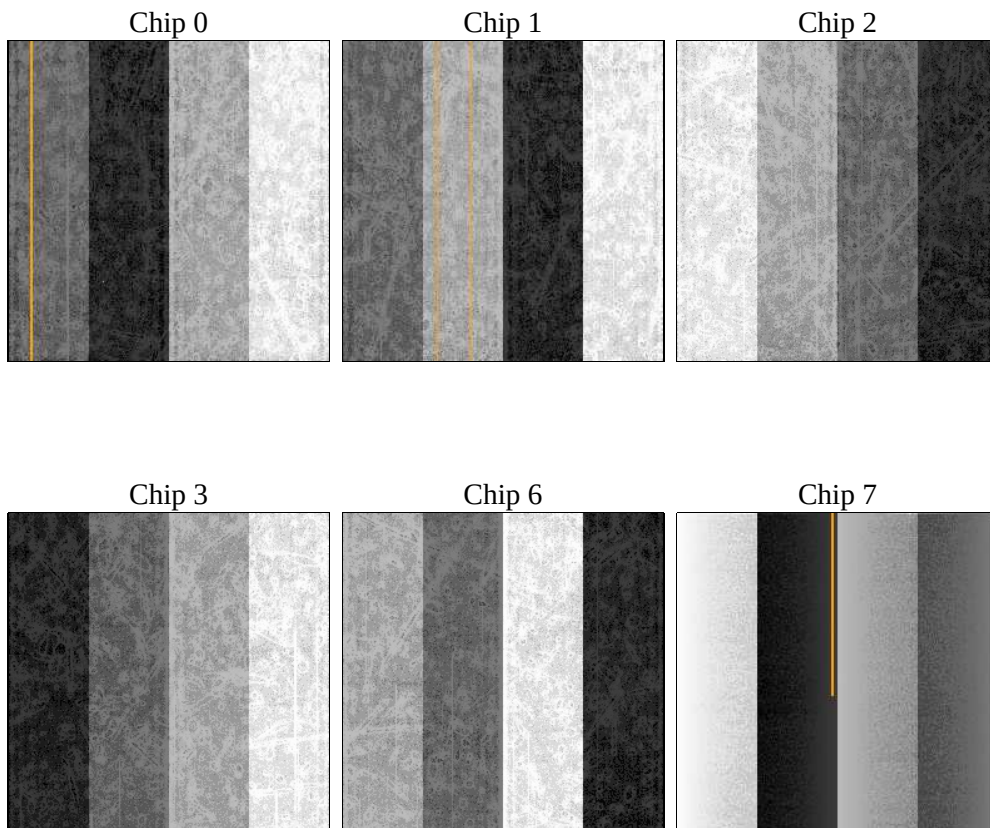
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6250.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	6210.3175102472	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6213.4353705645	Sum of GTIs [s]
date	2015-11-03T21:58:04	Date and time of file creation	ontime1	6213.4764105082	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6213.5174505711	Sum of GTIs [s]
			ontime3	6210.3175102472	Sum of GTIs [s]
			ontime6	6213.6405705214	Sum of GTIs [s]
			ontime7	6213.5995305777	Sum of GTIs [s]
			l1events	218222	Number of level 1 events

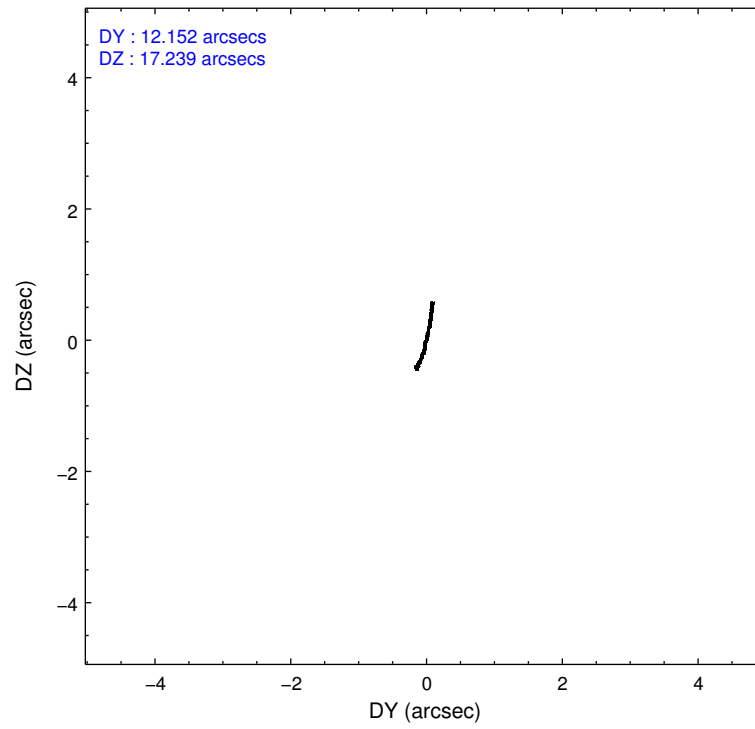
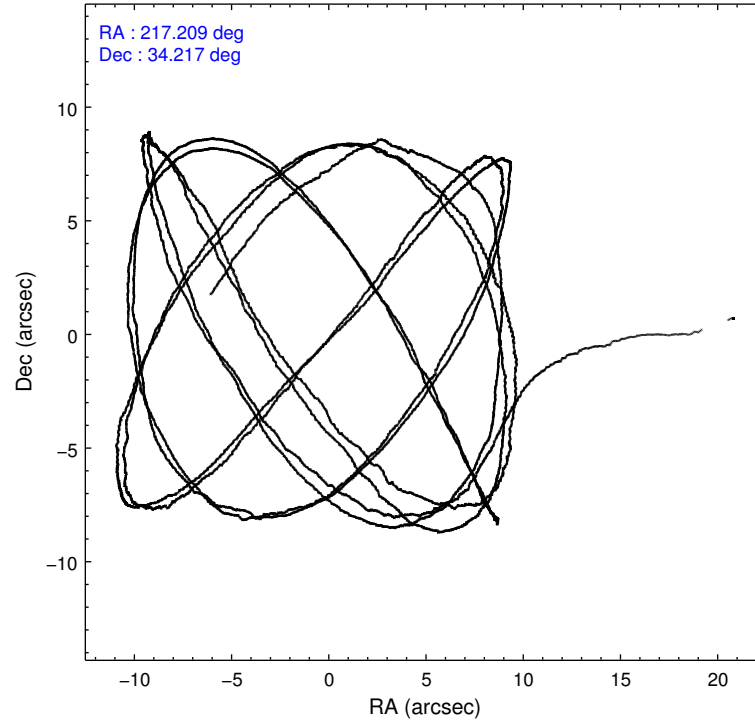
2.1.4 Events

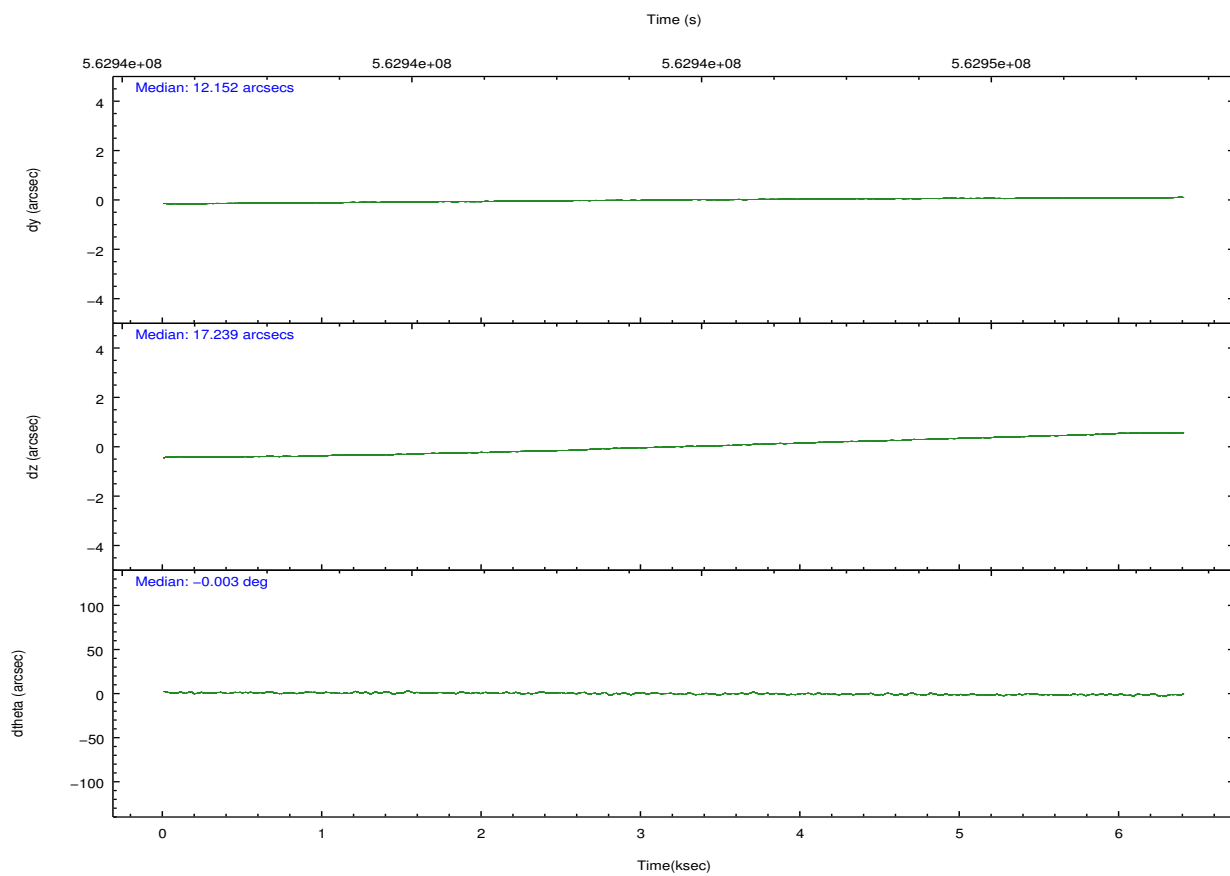
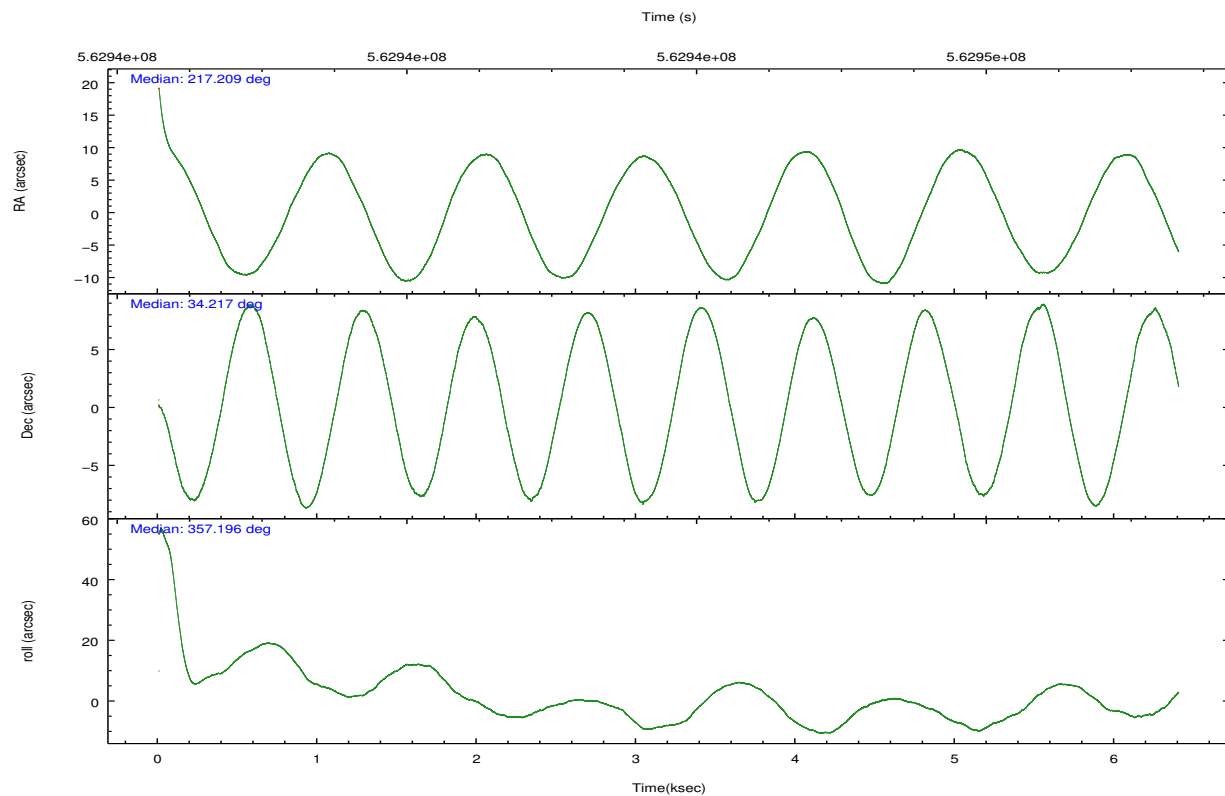
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	31318	32139	34594	32409	42085	45677	grade 0 events	2916	1940	1285	1264	5277	1713
rejected events	25861	27421	30907	28764	32120	25746		9%	6%	3%	3%	12%	3%
rejected %	82%	85%	89%	88%	76%	56%	grade 1 events	18	27	14	22	47	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	992	1016	976	775	2855	4146
								3%	3%	2%	2%	6%	9%
							grade 3 events	380	445	342	399	401	1661
								1%	1%	0%	1%	0%	3%
							grade 4 events	401	410	364	450	441	1638
								1%	1%	1%	1%	1%	3%
							grade 5 events	1529	1529	1407	1654	1800	4595
								4%	4%	4%	5%	4%	10%
							grade 6 events	776	915	721	763	1002	10787
								2%	2%	2%	2%	2%	23%
							grade 7 events	24306	25857	29485	27082	30262	21069
								77%	80%	85%	83%	71%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	217.179101	217.2088336057361	CCD I2 on	Y	Y
[deg] Pointing Dec	34.204317	34.21701997903035	CCD I3 on	Y	Y
[deg] Pointing Roll	357.010105	357.2021747139594	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	562940767.184000	562939364.22842	CCD S5 on	N	N
Observation start date	2015-11-03T12:24:59	2015-11-03T12:02:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	562947017.184000	562947219.31637	On-chip summing requested	N	N
Observation end date	2015-11-03T14:09:09	2015-11-03T14:13:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



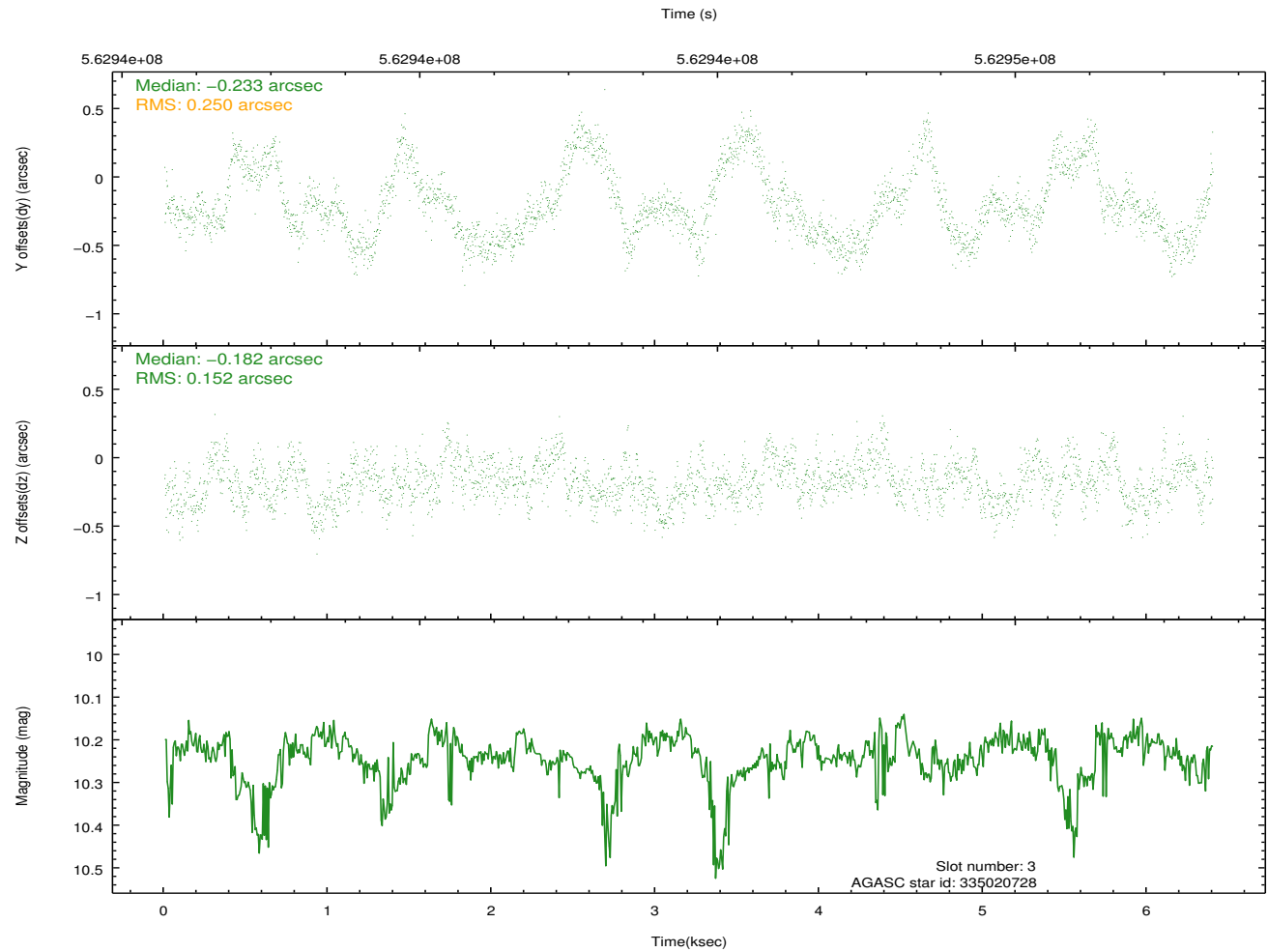
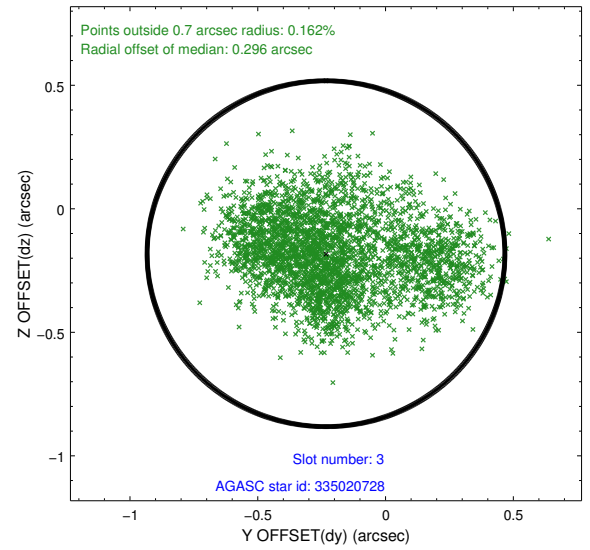
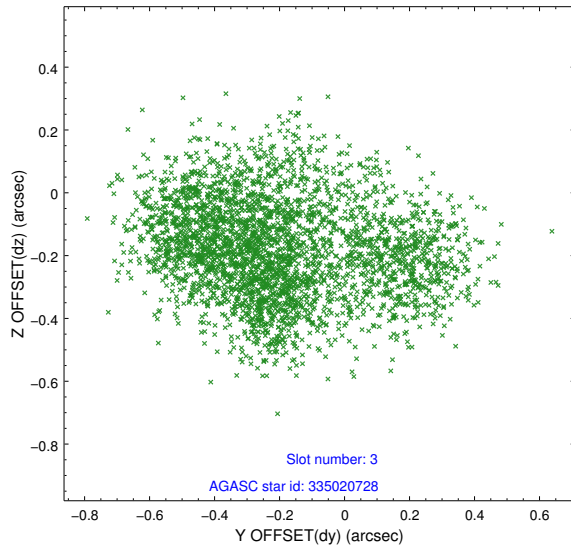


Slot Statistics

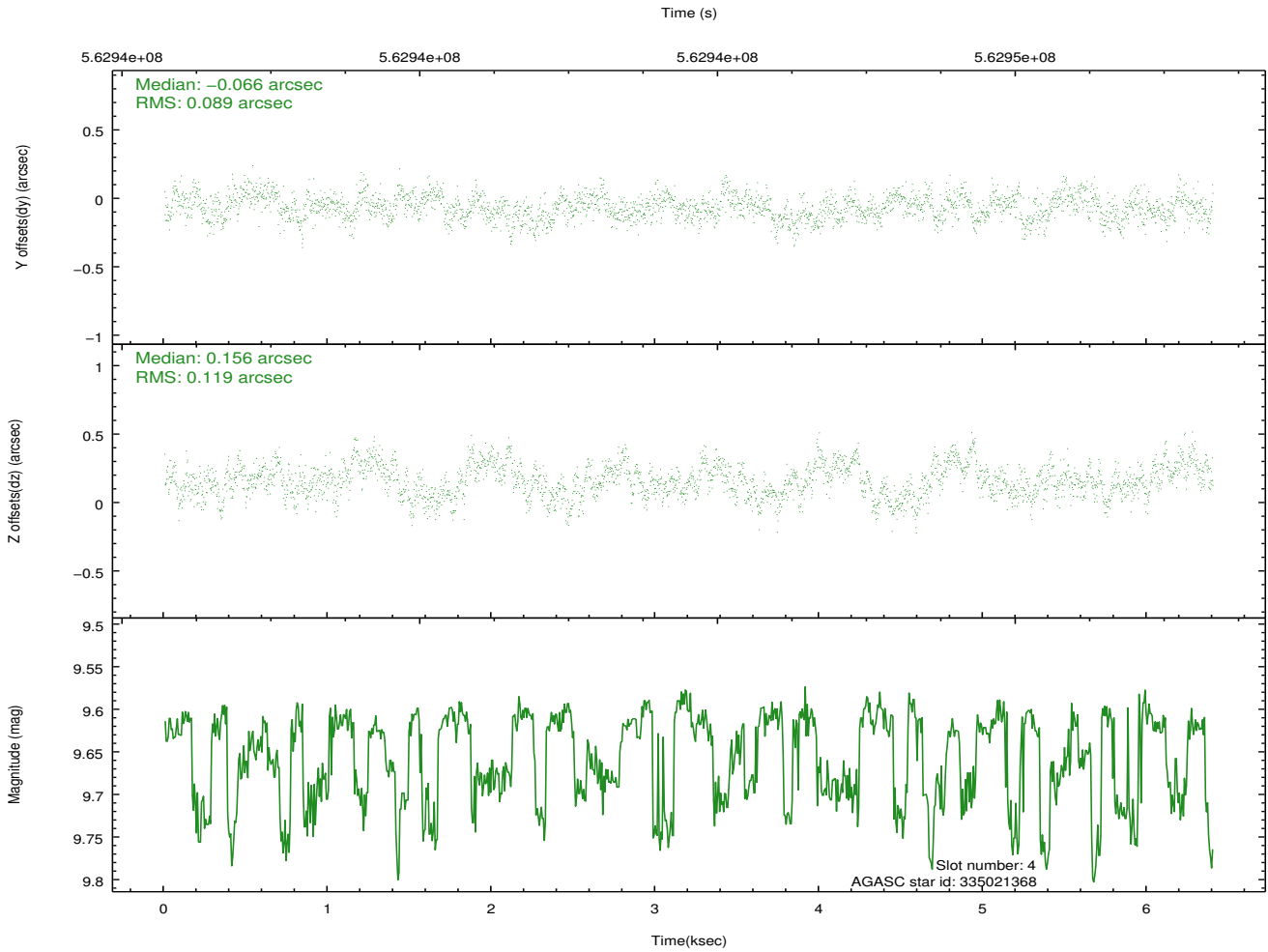
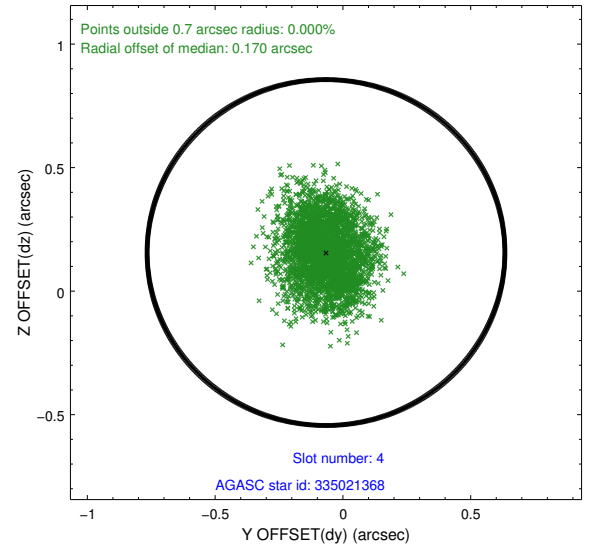
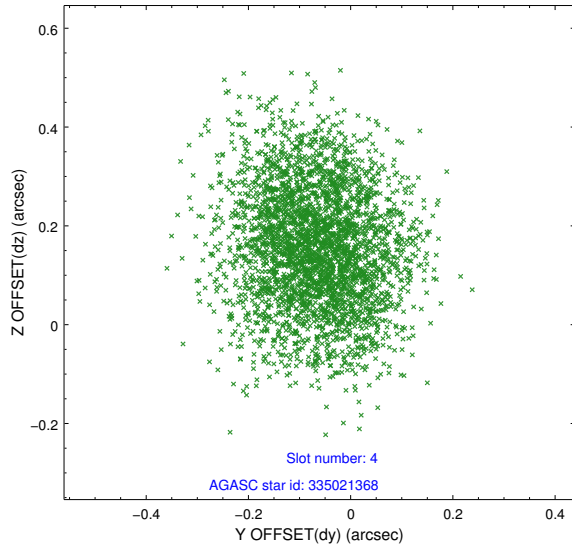
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.15	1561	-0.203	-0.105	0.013	0.021	0.000000	0.000000	-766.97	-847.39
1	FID		ACIS-I-4	7.17	1559	0.380	0.137	0.010	0.016	0.000000	0.000000	2147.23	1058.58
2	FID		ACIS-I-5	7.25	1561	-0.279	0.037	0.015	0.023	0.000000	0.000000	-1819.71	1057.34
3	GUIDE	used	335020728	10.24	3078	-0.233	-0.182	0.312	0.518	217.586522	34.733044	1102.91	1965.40
4	GUIDE	used	335021368	9.65	3120	-0.066	0.156	0.159	0.252	217.529643	33.934817	1096.20	-911.51
5	GUIDE	used	335025848	9.69	3098	0.321	0.379	0.192	0.307	217.530531	33.778292	1130.56	-1474.64
6	GUIDE	used	335028336	9.47	3119	0.401	-0.280	0.249	0.390	217.189840	34.665629	-54.58	1659.42
7	GUIDE	used	335028696	9.18	3115	-0.373	-0.058	0.232	0.364	217.260519	33.844112	310.16	-1281.60

2.4 Star Slots

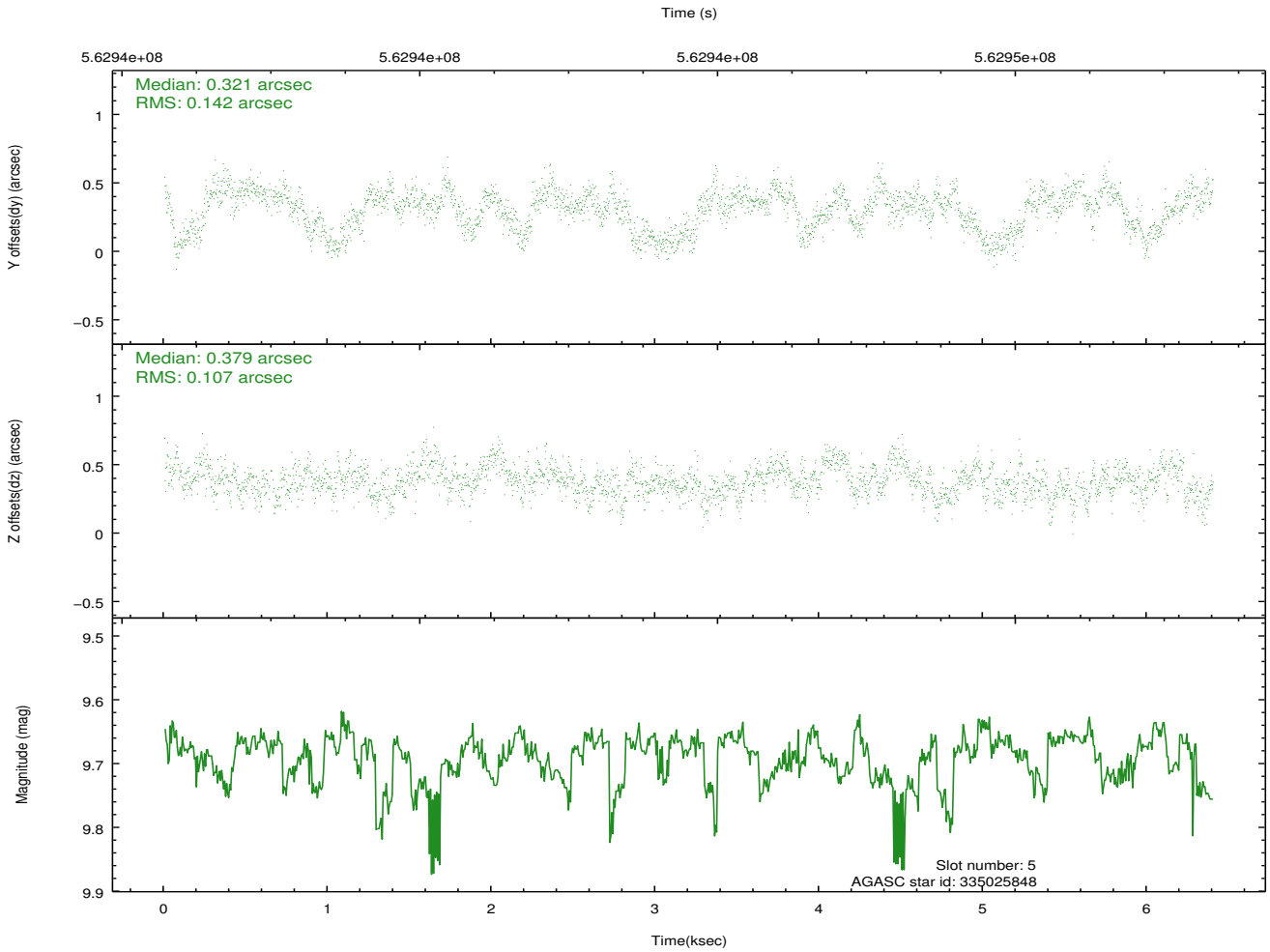
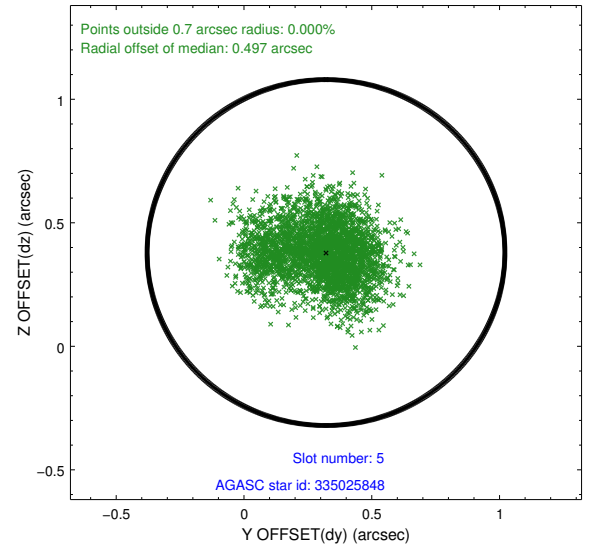
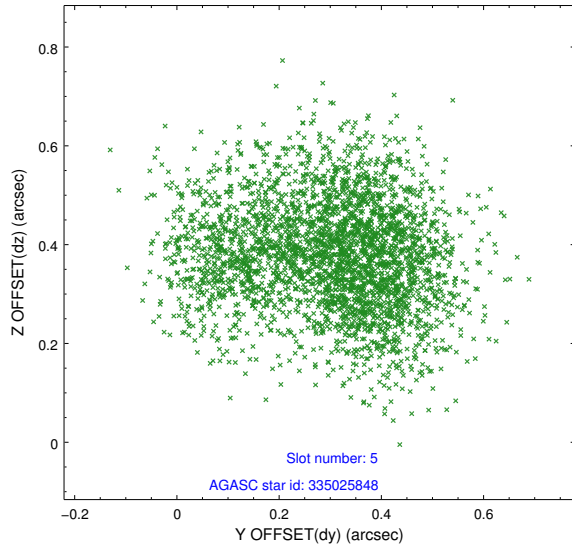
2.4.1 Slot 3



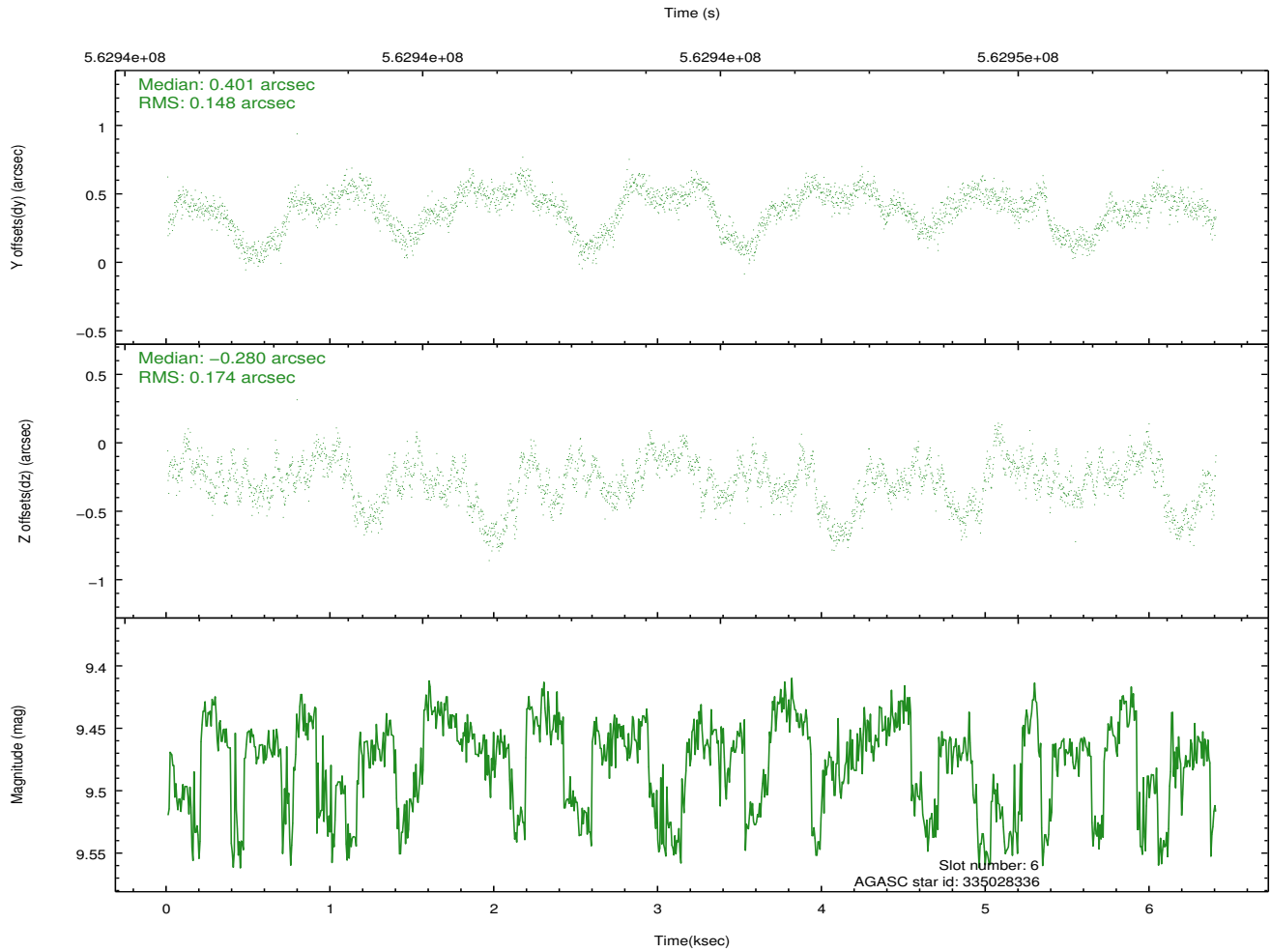
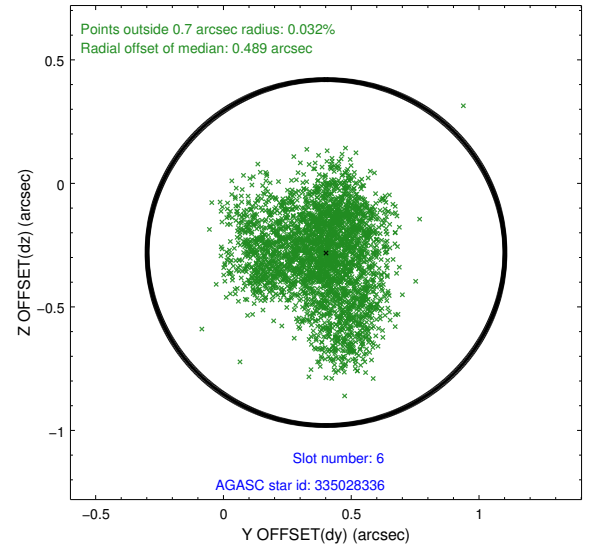
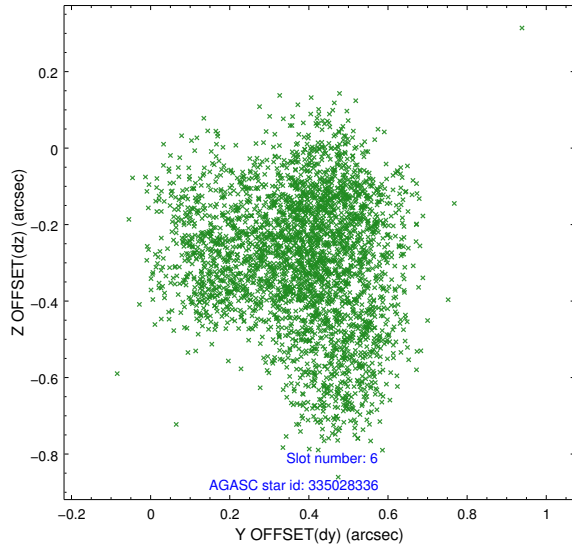
2.4.2 Slot 4



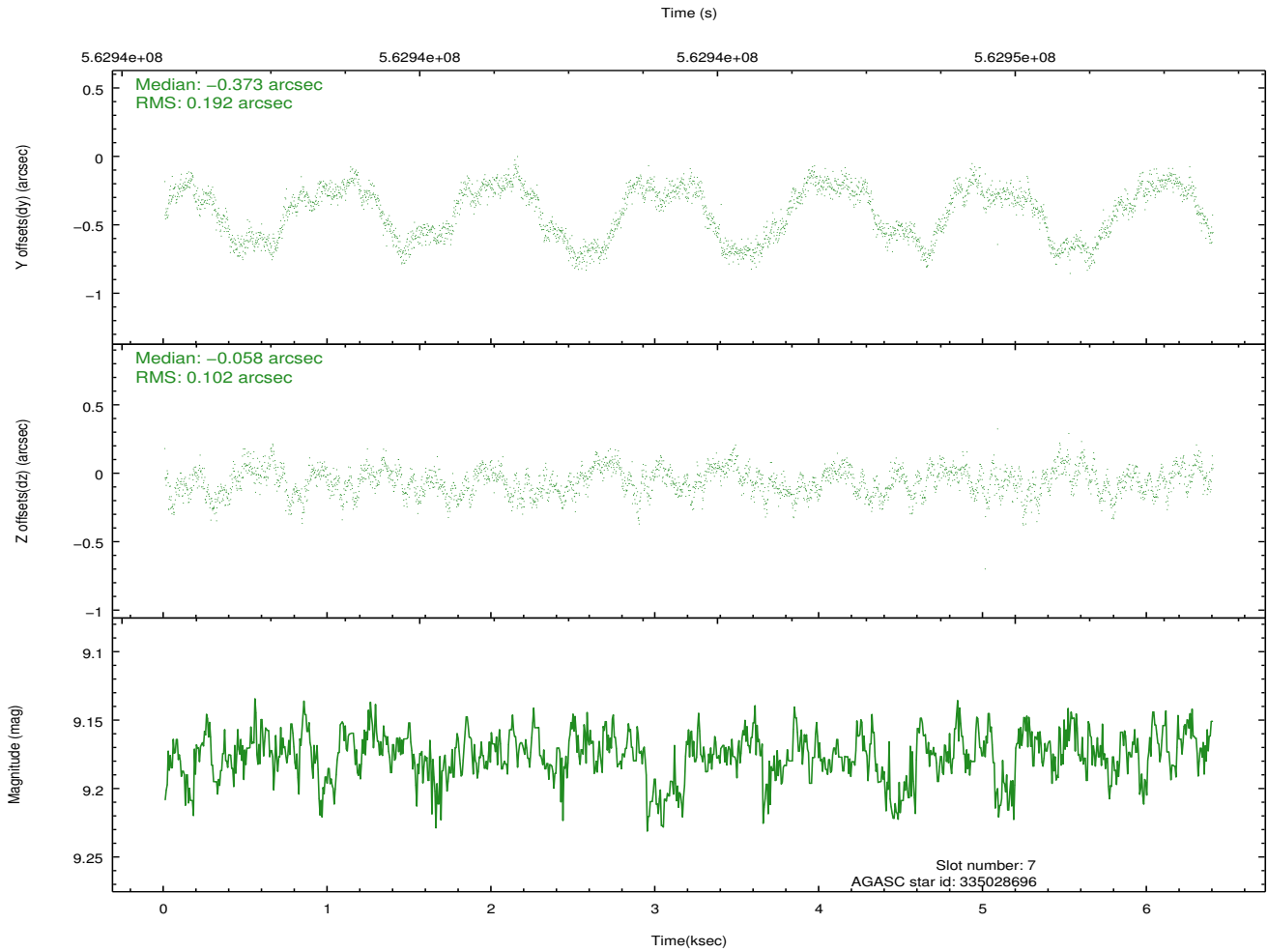
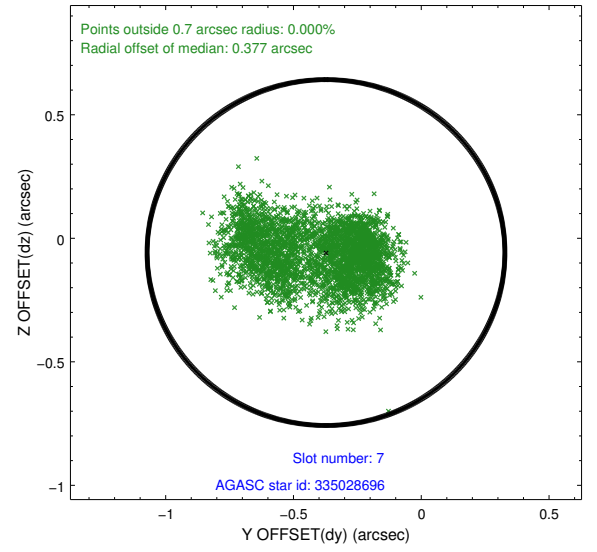
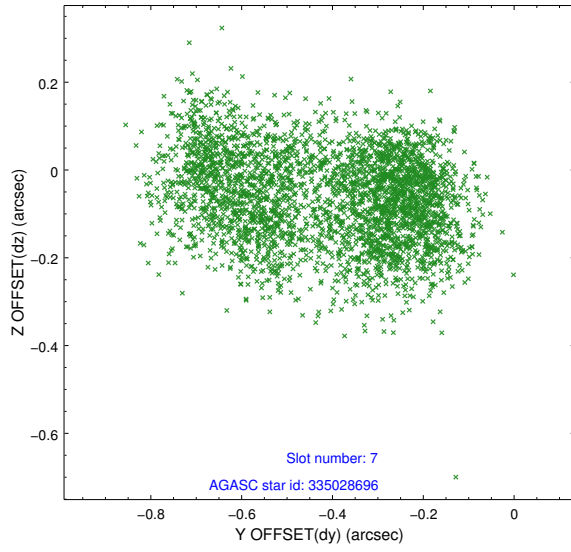
2.4.3 Slot 5



2.4.4 Slot 6

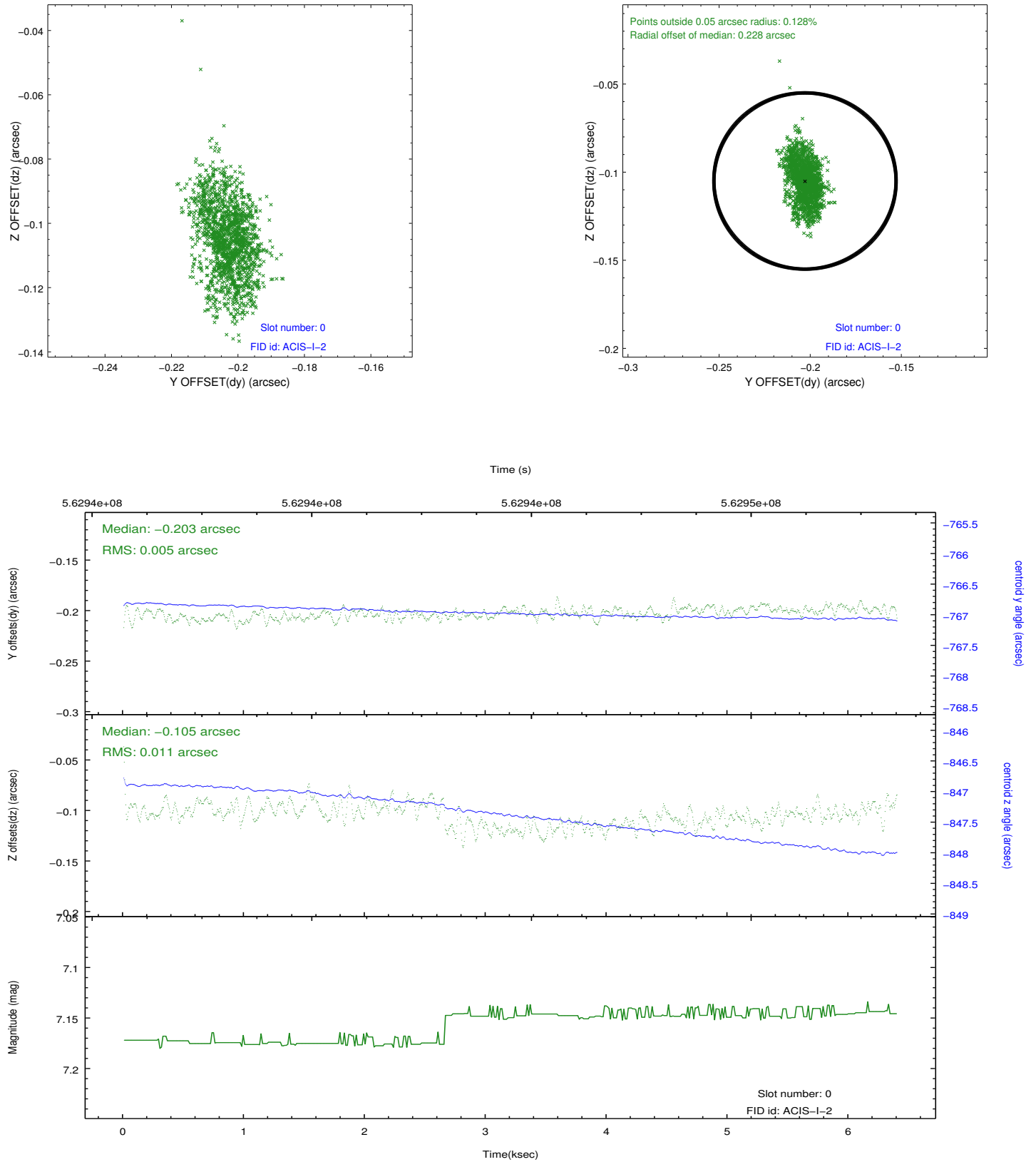


2.4.5 Slot 7

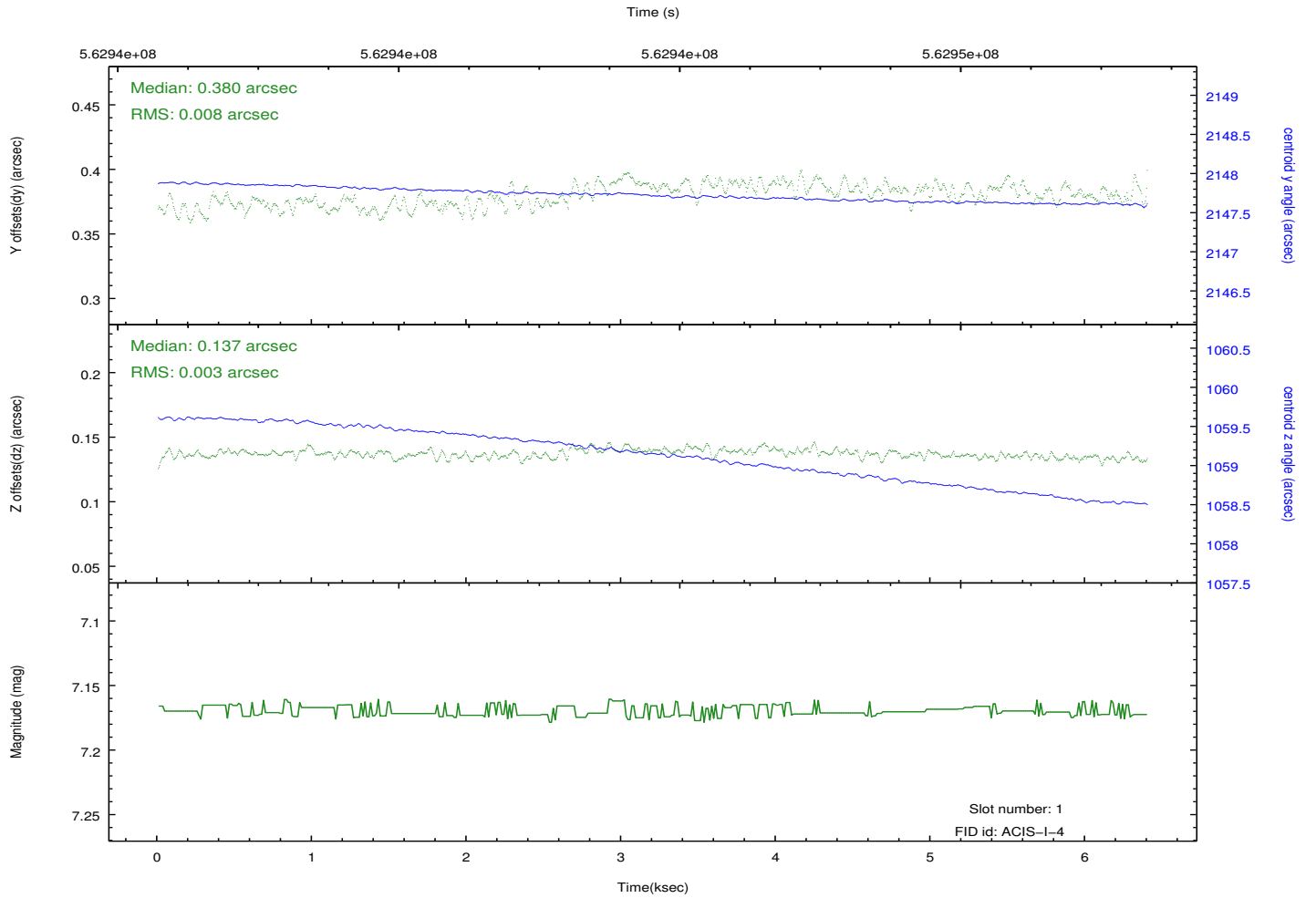
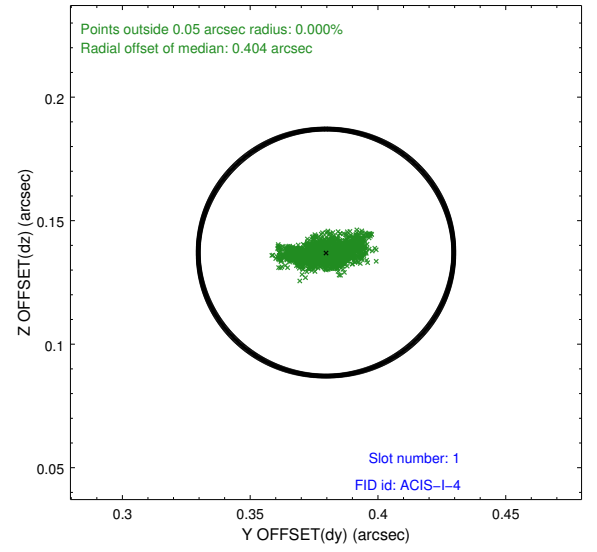
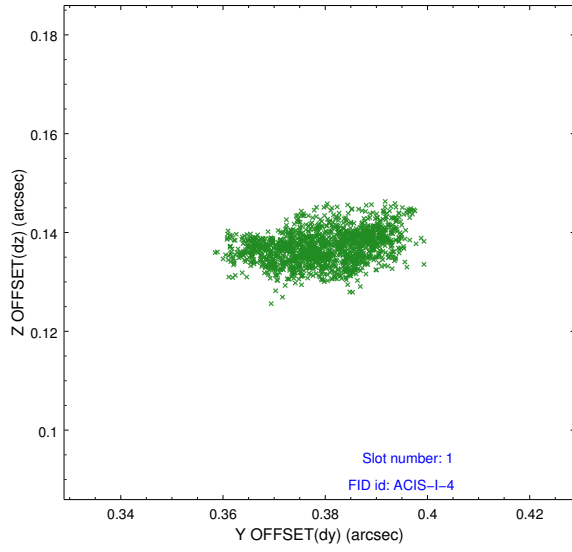


2.5 FID Slots

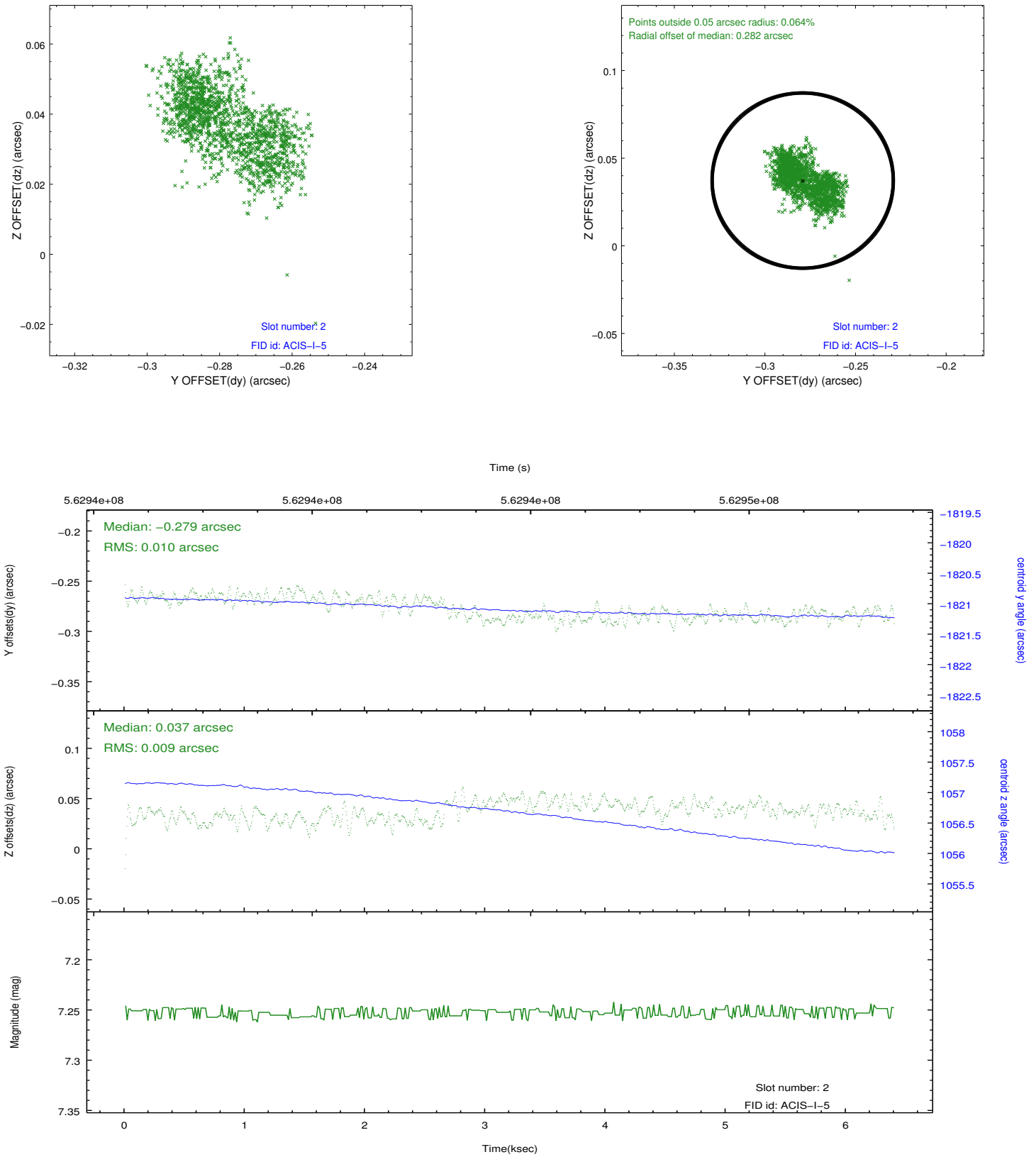
2.5.1 Slot 0



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)	2015.11.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.2103175102472

A.2 Comments