

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 20026 - L2 Version 1
Chandra X-Ray Center

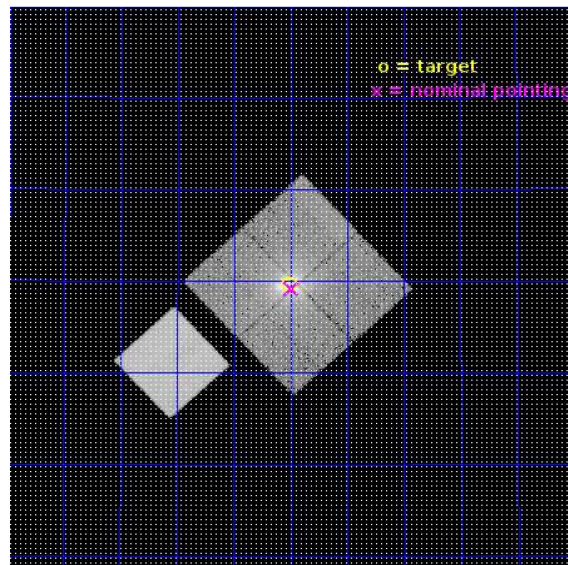
L2 Processing Date : Jun 3 2017

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

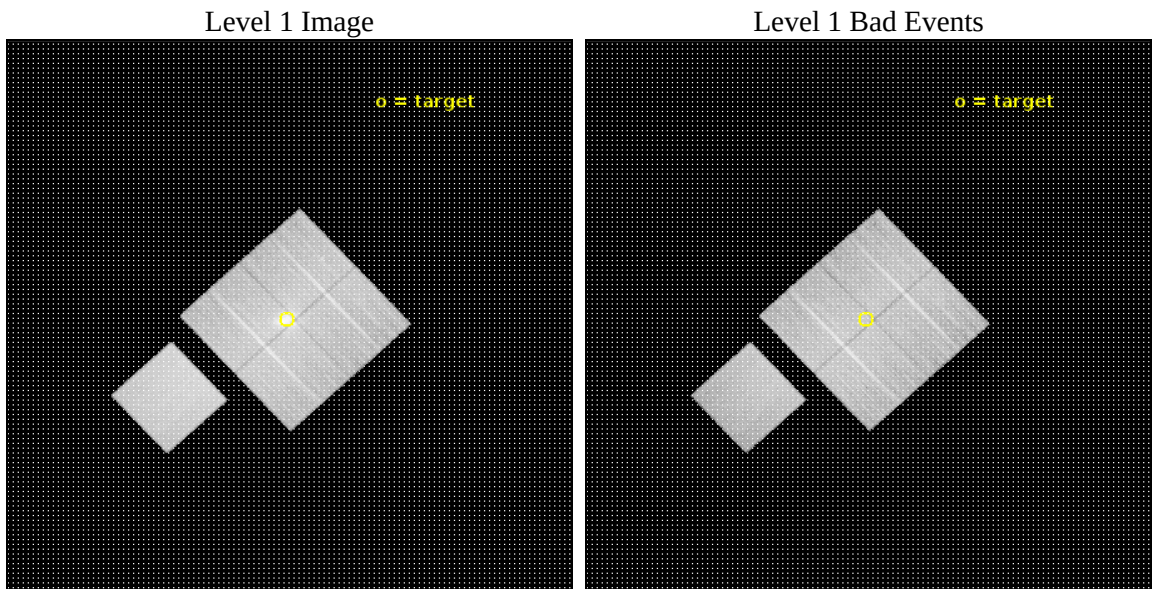
seq_num	801576	Sequence number
obs_id	20026	Observation id
title	Searching for Shock Features in the Radio Halo Cluster Abell 1914	
observer	Jimmy Irwin	Principal investigator
object	Abell 1914	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.501667	Observer's specified target RA [deg]
dec_targ	37.828056	Observer's specified target Dec [deg]
ra_nom	216.49793182513	Nominal RA [deg]
dec_nom	37.819547602498	Nominal Dec [deg]
roll_nom	227.21098002654	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29254.659144402	Sum of GTIs [s]
livetime	28872.425485713	Livetime [s]
ontime0	29254.570172787	Sum of GTIs [s]
ontime1	29254.611222863	Sum of GTIs [s]
ontime2	29254.652262926	Sum of GTIs [s]
ontime3	29254.659144402	Sum of GTIs [s]
ontime7	29257.800225139	Sum of GTIs [s]
l2events	236389	Number of level 2 events



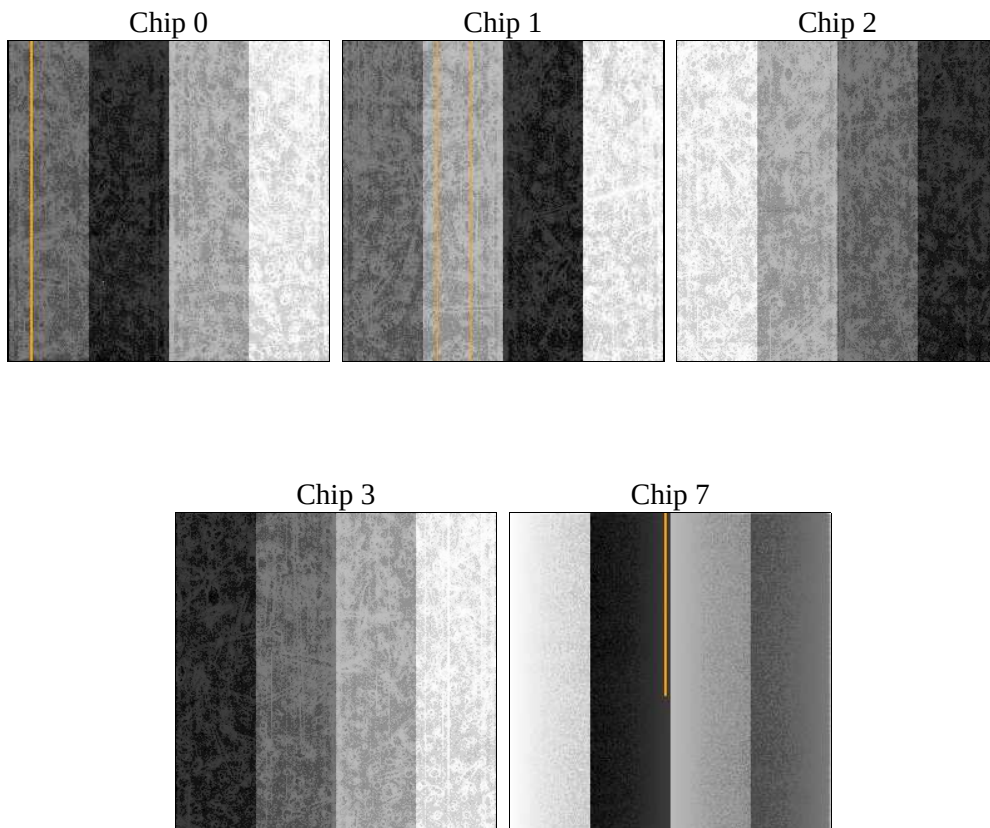
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29200.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	29254.659144402	Sum of GTIs [s]
caldsver	4.7.4	 	ontime0	29254.570172787	Sum of GTIs [s]
date	2017-06-03T14:51:58	Date and time of file creation	ontime1	29254.611222863	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	29254.652262926	Sum of GTIs [s]
			ontime3	29254.659144402	Sum of GTIs [s]
			ontime7	29257.800225139	Sum of GTIs [s]
			l1events	1117896	Number of level 1 events

2.1.4 Events

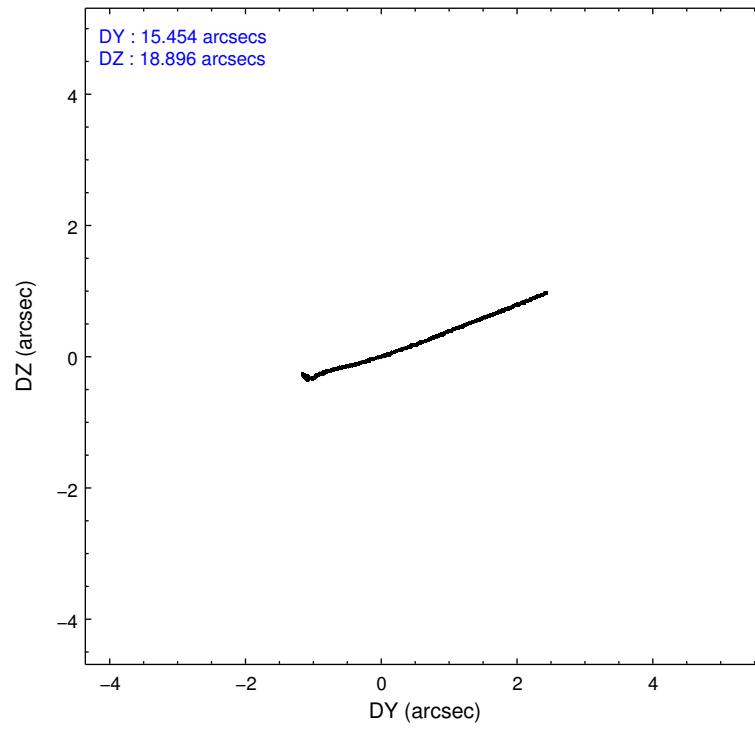
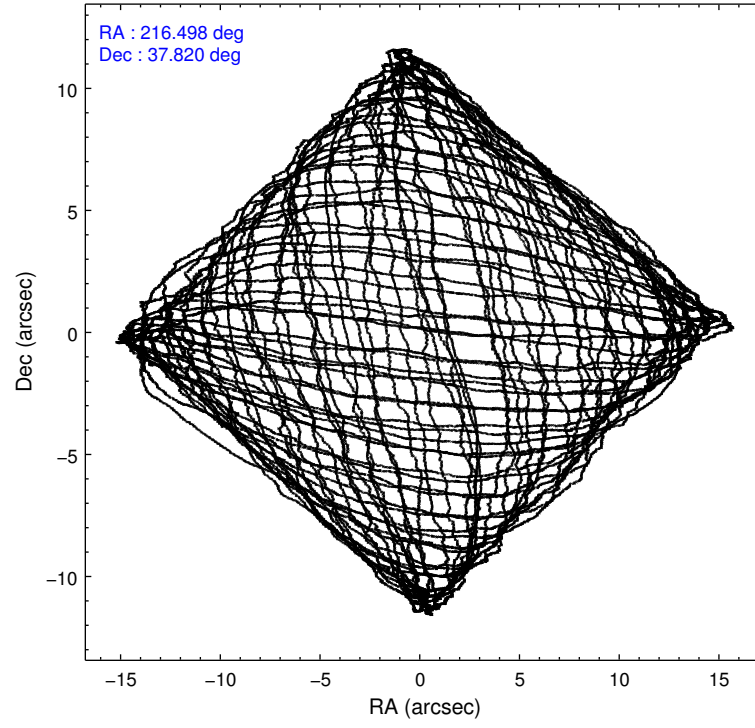
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	192813	204714	218838	233258	268273	grade 0 events	10710	15483	14648	29224	9883
rejected events	165905	170321	187916	184632	151867		5%	7%	6%	12%	3%
rejected %	86%	83%	85%	79%	56%	grade 1 events	119	133	149	225	385
							0%	0%	0%	0%	0%
						grade 2 events	6374	7533	6497	7496	24586
							3%	3%	2%	3%	9%
						grade 3 events	2541	2751	2439	3172	9259
							1%	1%	1%	1%	3%
						grade 4 events	2385	2722	2574	3246	9152
							1%	1%	1%	1%	3%
						grade 5 events	9008	9700	8296	10318	26872
							4%	4%	3%	4%	10%
						grade 6 events	4902	5909	4766	5490	63536
							2%	2%	2%	2%	23%
						grade 7 events	156774	160483	179469	174087	124600
							81%	78%	82%	74%	46%

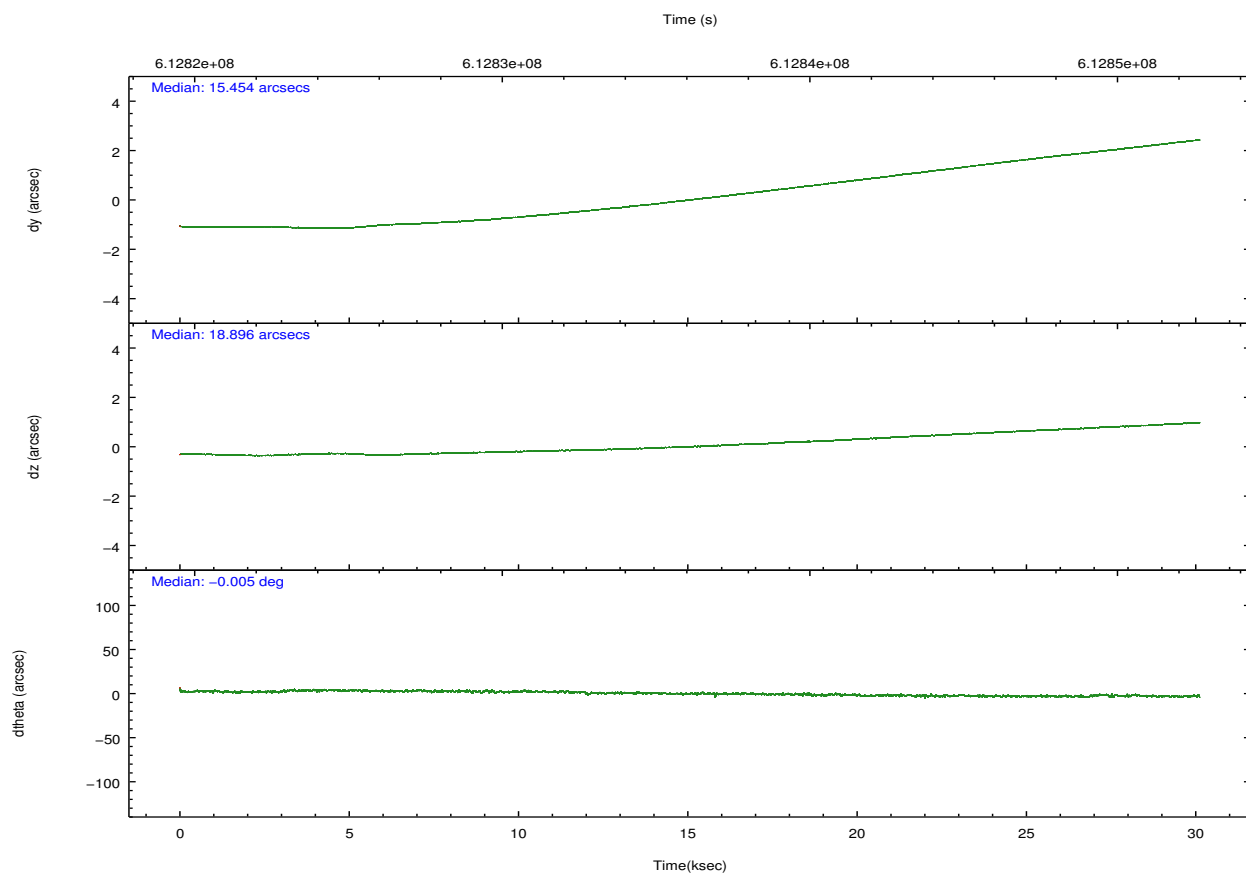
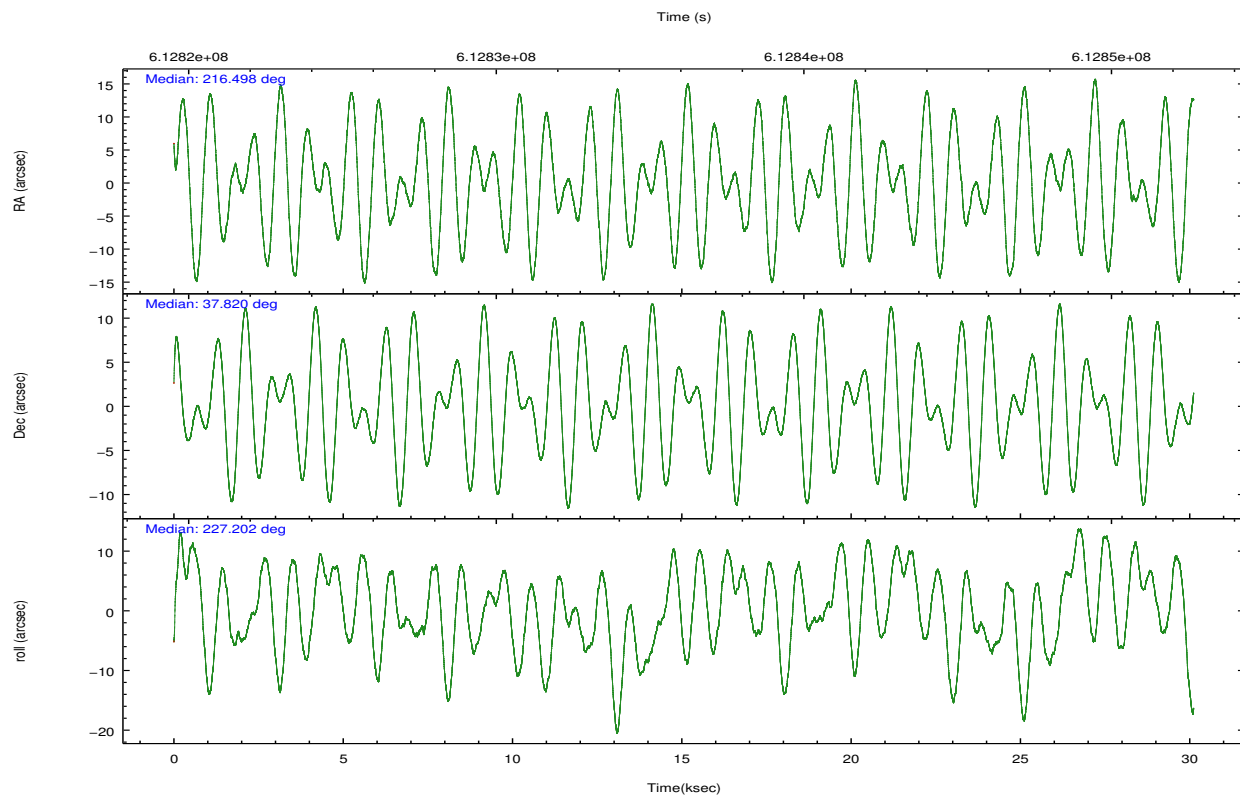
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01237	ACIS-01237
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	216.505533	216.4979318251342
[deg] Pointing Dec	37.846493	37.81954760249805
[deg] Pointing Roll	226.997624	227.2109800265437
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	612821947.184000	612820282.7295099
Observation start date	2017-06-02T20:17:58	2017-06-02T19:51:22
[s] Observation end time (MET)	612851147.184000	612852324.74388
Observation end date	2017-06-03T04:24:38	2017-06-03T04:45:24
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	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	N	N
CCD S3 on	O1	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
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



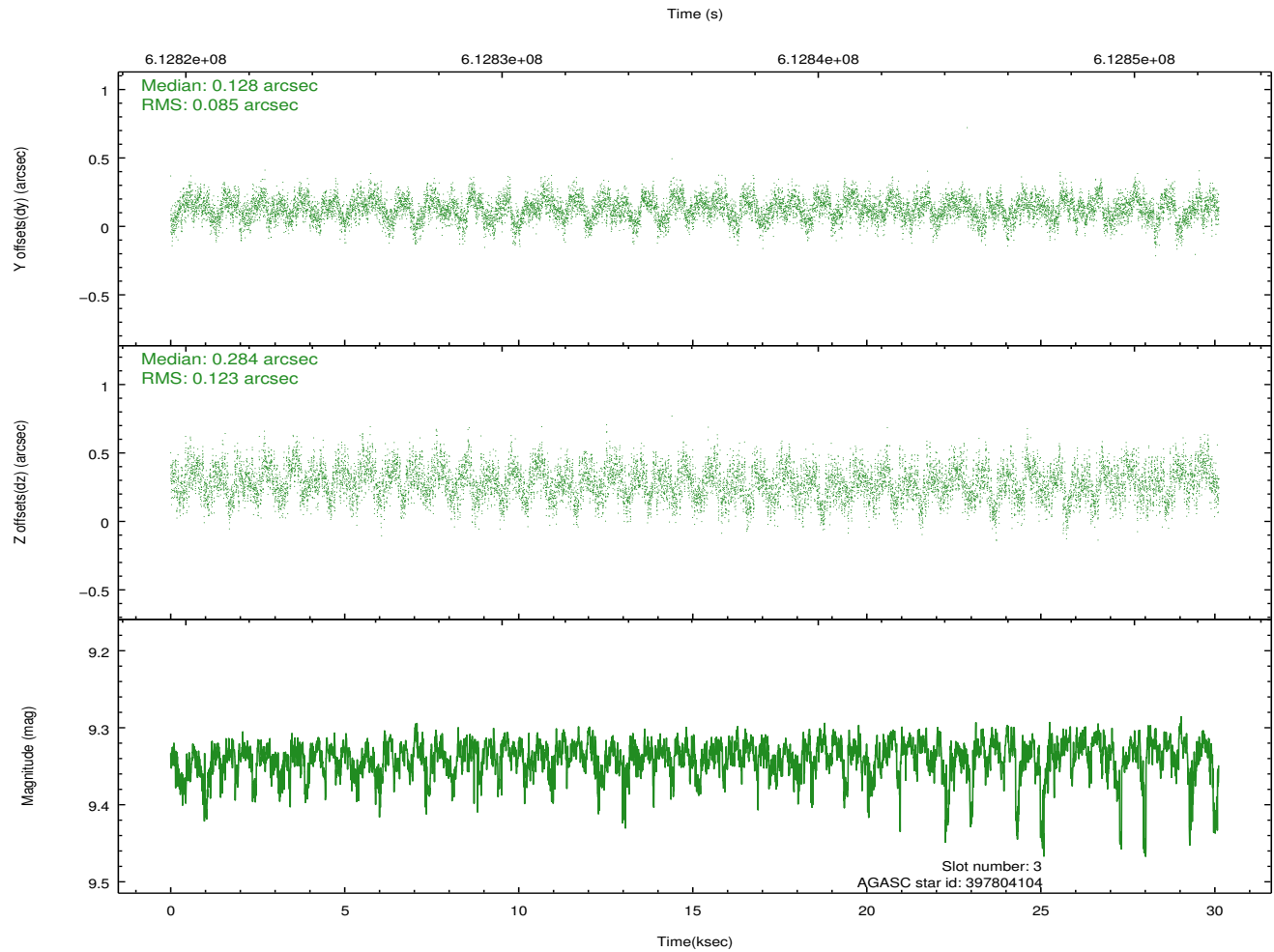
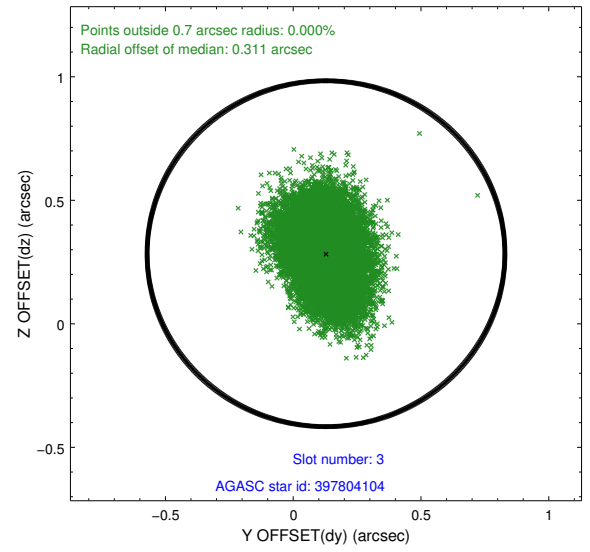
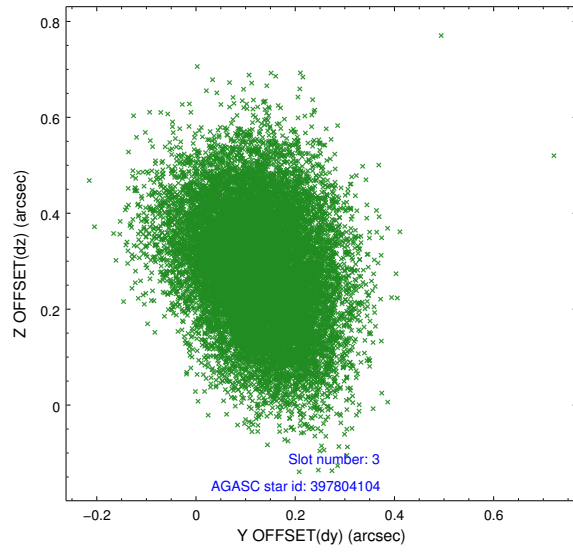


Slot Statistics

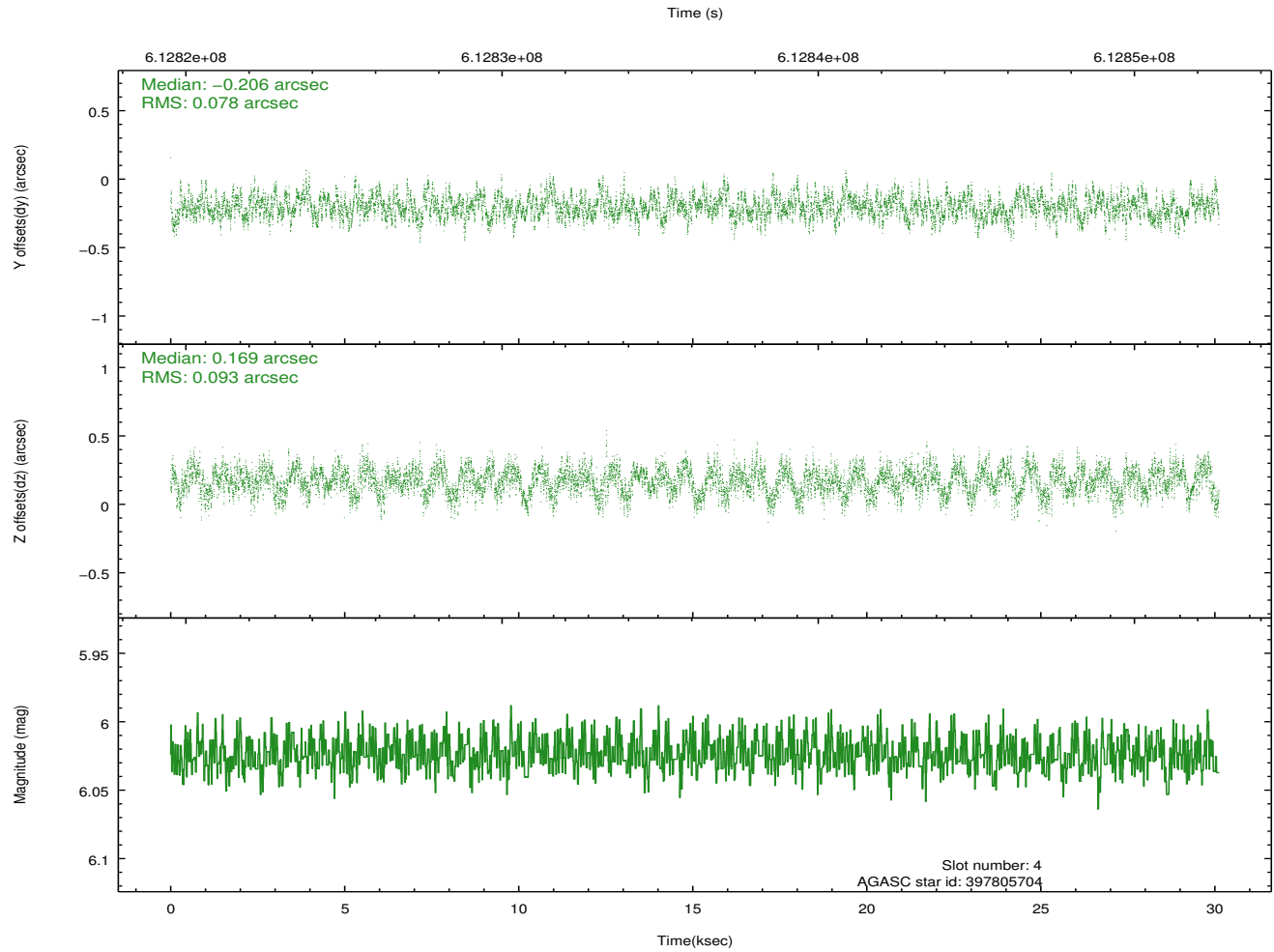
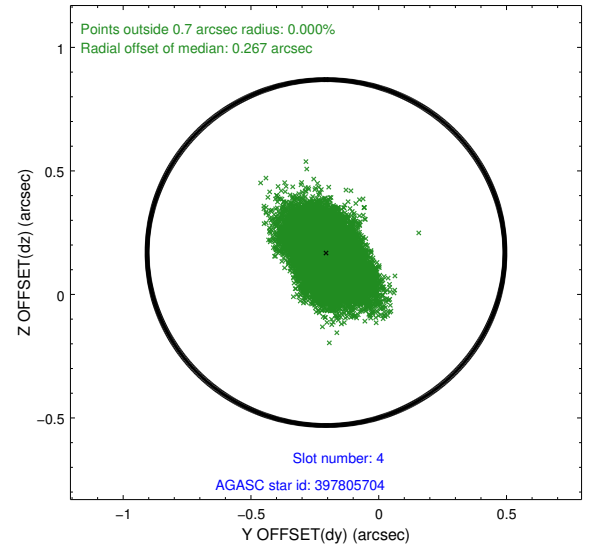
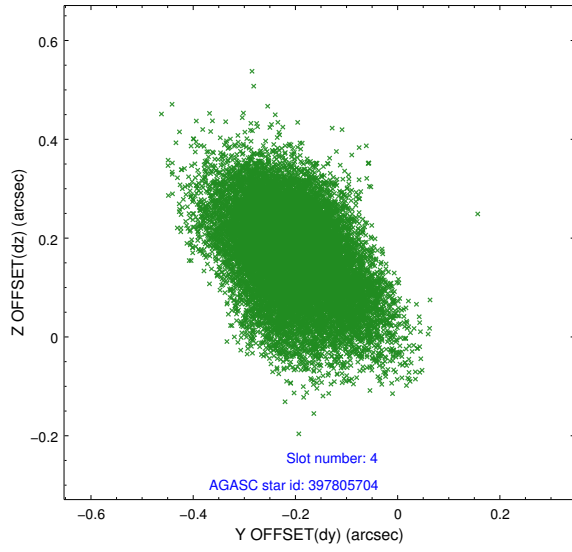
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.03	7345	-0.209	-0.033	0.022	0.035	0.000000	0.000000	-770.57	-849.16
1	FID		ACIS-I-4	7.08	7344	0.476	0.122	0.025	0.050	0.000000	0.000000	2144.05	1057.27
2	FID		ACIS-I-5	7.11	7345	-0.356	-0.018	0.027	0.068	0.000000	0.000000	-1824.55	1054.87
3	GUIDE	used	397804104	9.34	14669	0.128	0.284	0.159	0.256	216.088268	38.455118	-801.82	-2357.80
4	GUIDE	used	397805704	6.02	14692	-0.206	0.169	0.128	0.211	216.371468	38.393051	-1180.75	-1618.30
5	GUIDE	used	397808560	9.80	14658	0.013	0.015	0.229	0.393	216.564463	37.977903	-458.88	-200.30
6	GUIDE	used	397943760	7.92	14688	-0.222	-0.480	0.116	0.197	217.039857	37.556695	-280.55	1823.61
7	GUIDE	used	397940208	9.67	14656	0.286	-0.002	0.180	0.296	217.129334	38.261499	-2299.08	266.70

2.4 Star Slots

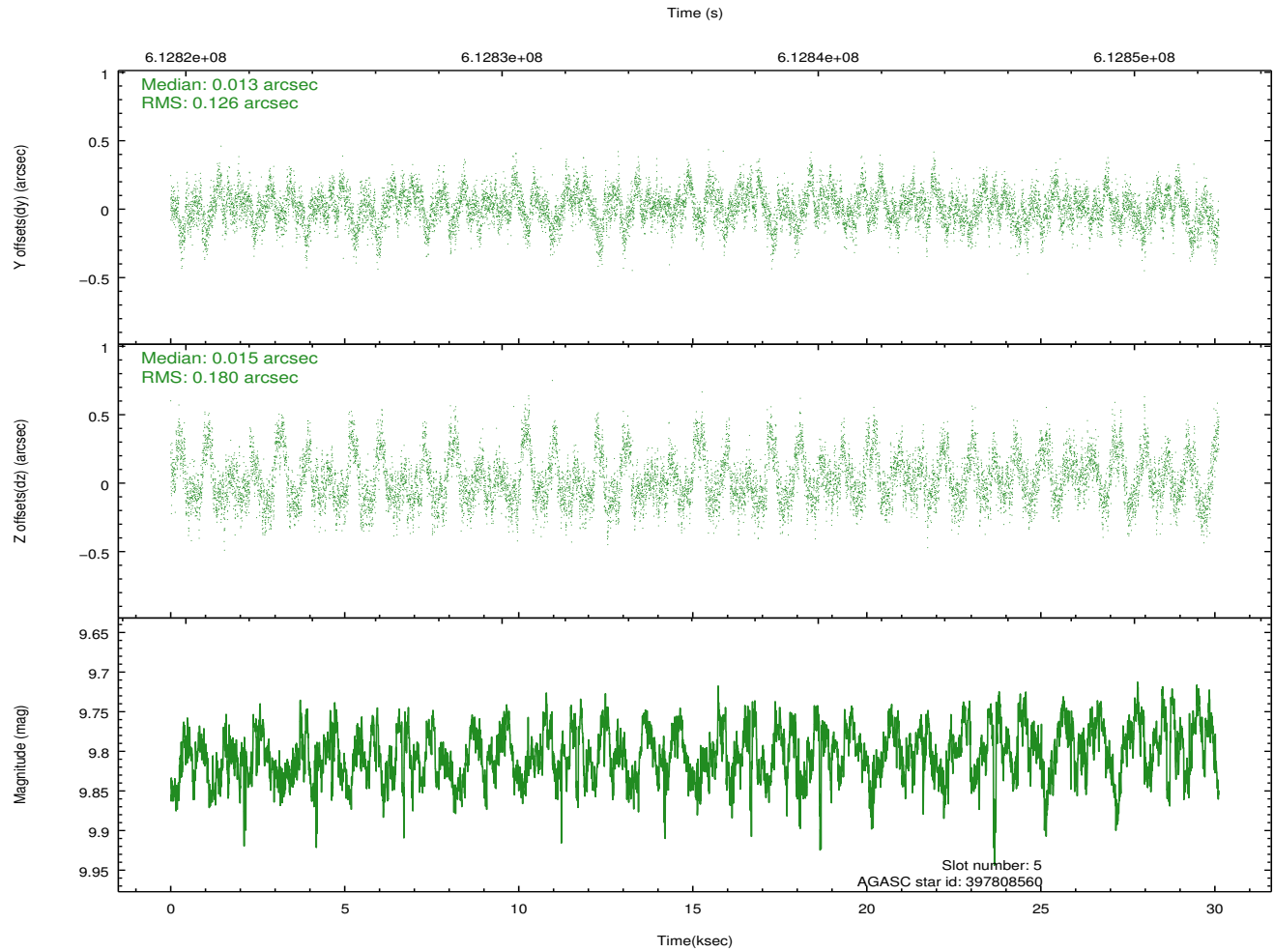
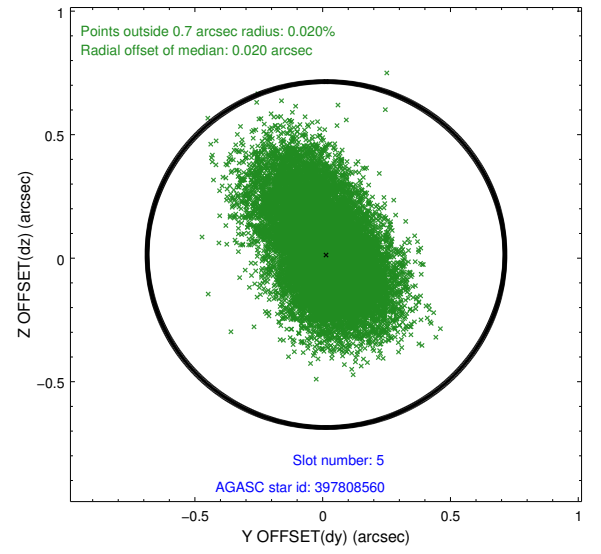
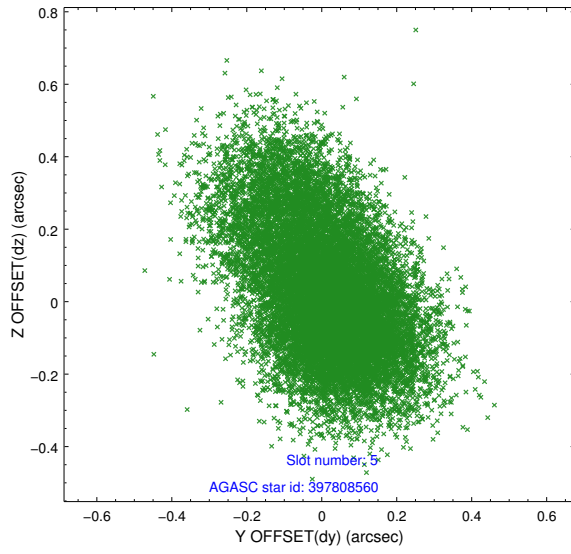
2.4.1 Slot 3



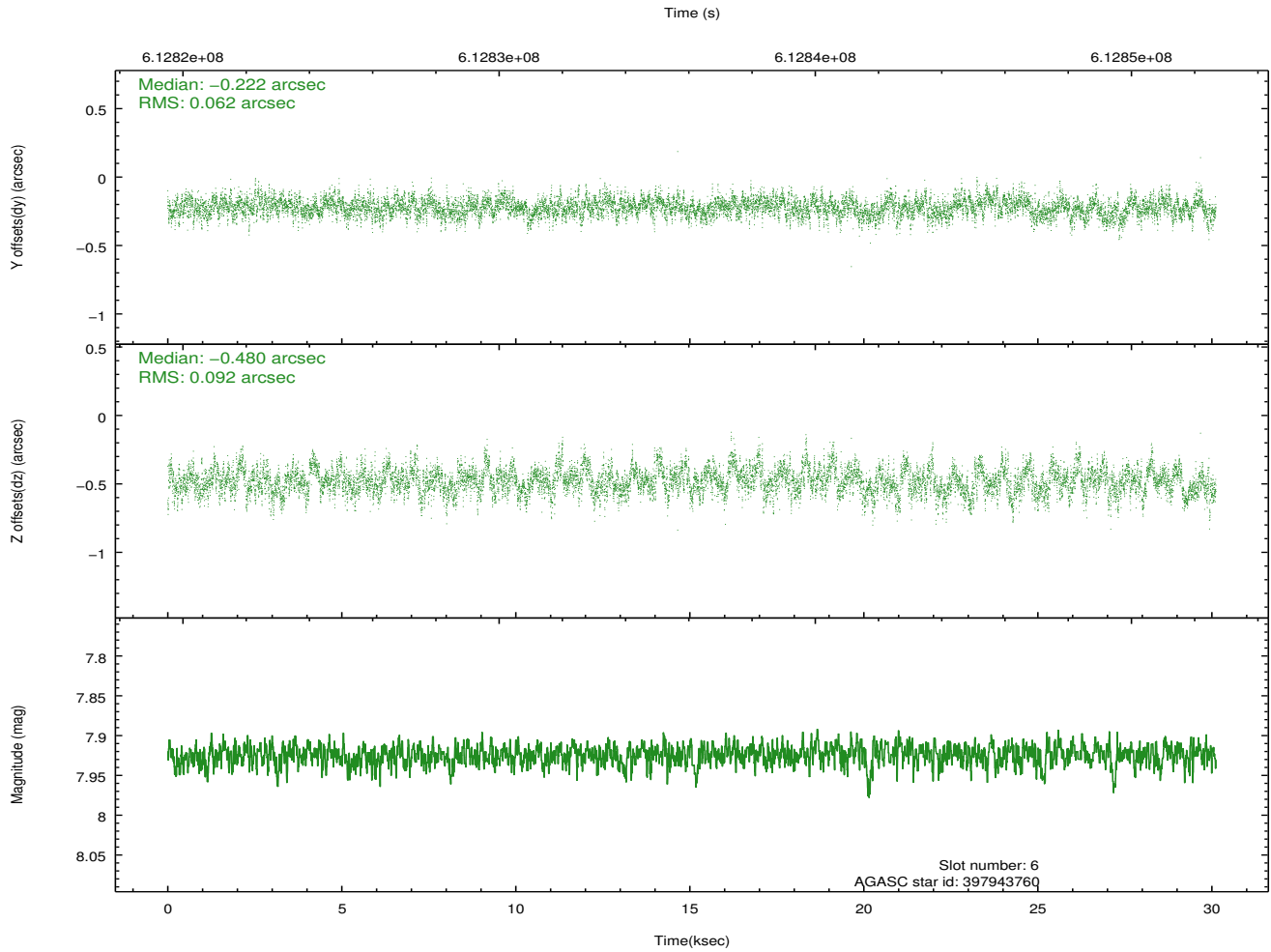
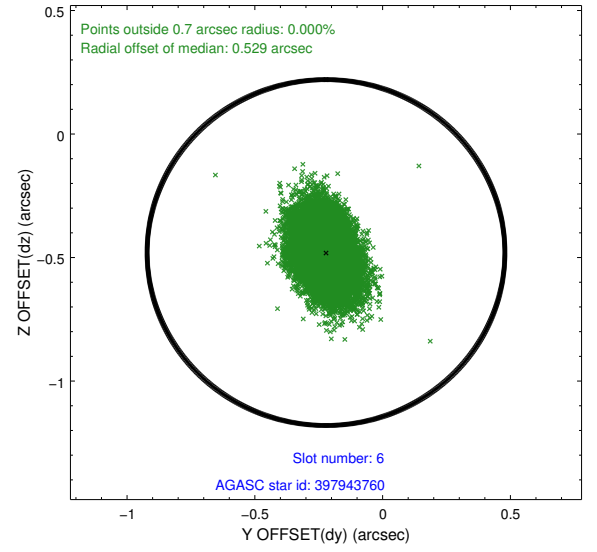
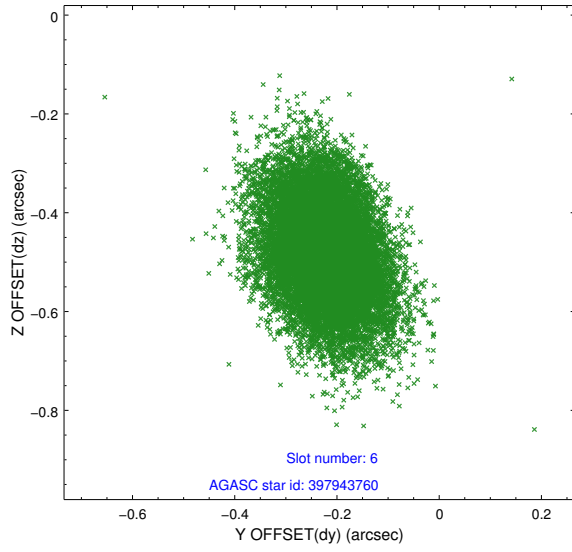
2.4.2 Slot 4



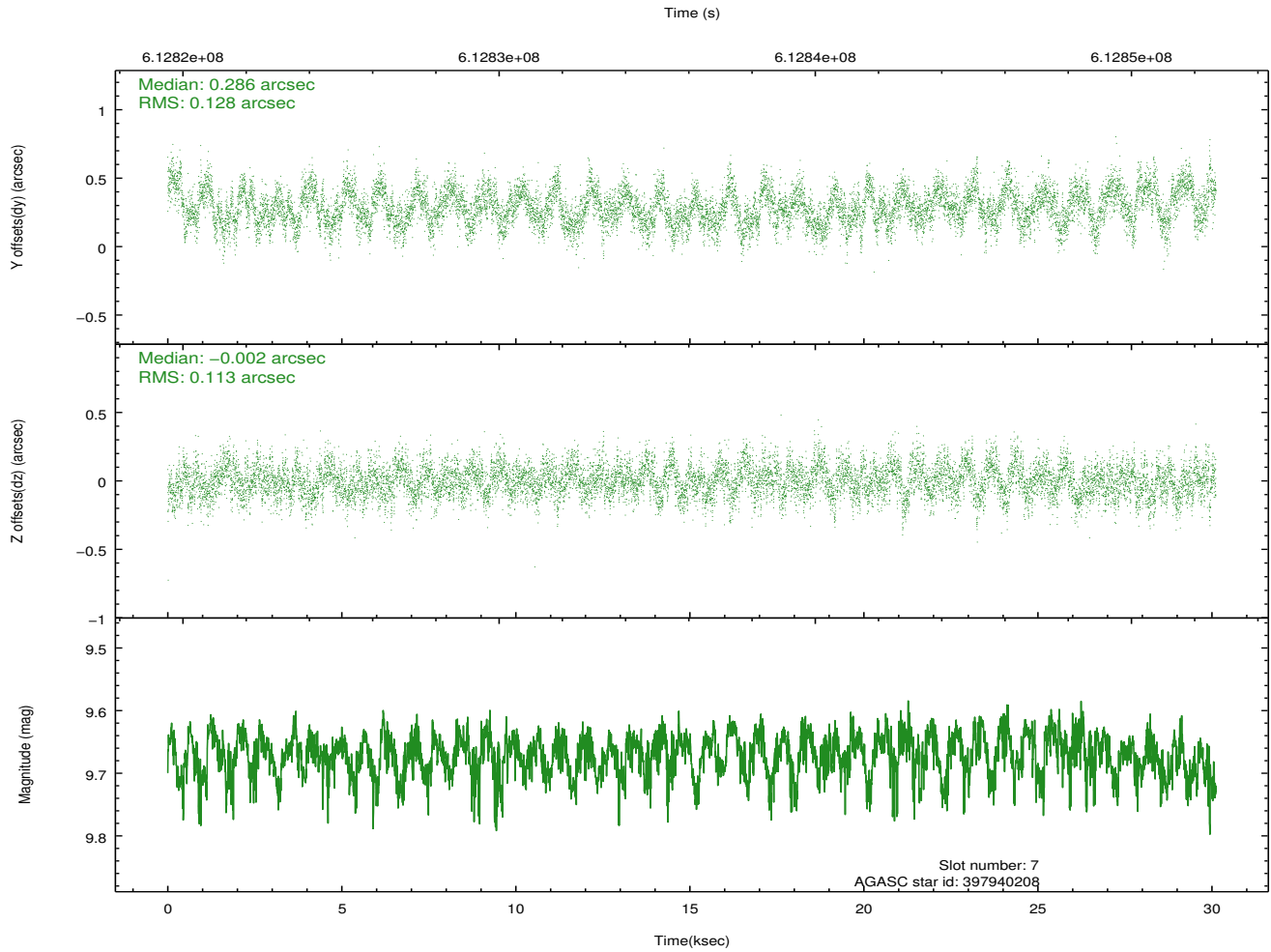
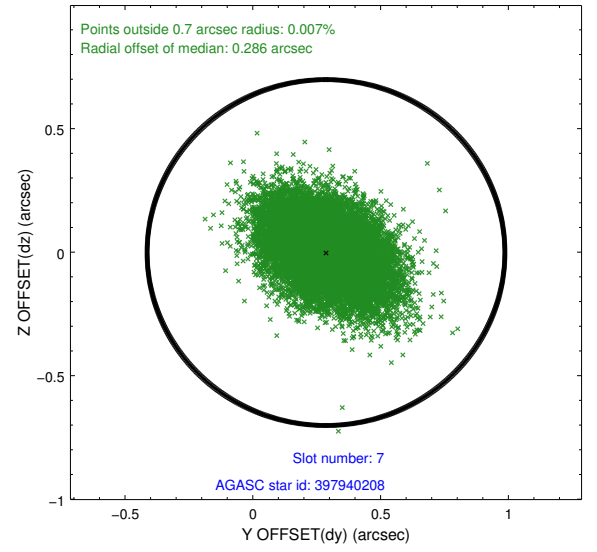
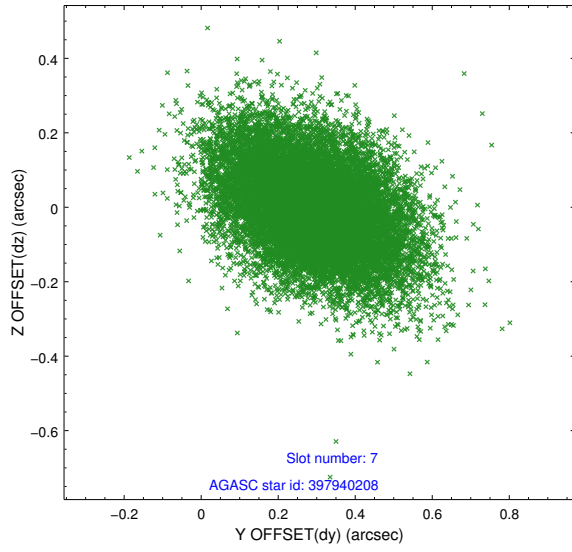
2.4.3 Slot 5



2.4.4 Slot 6

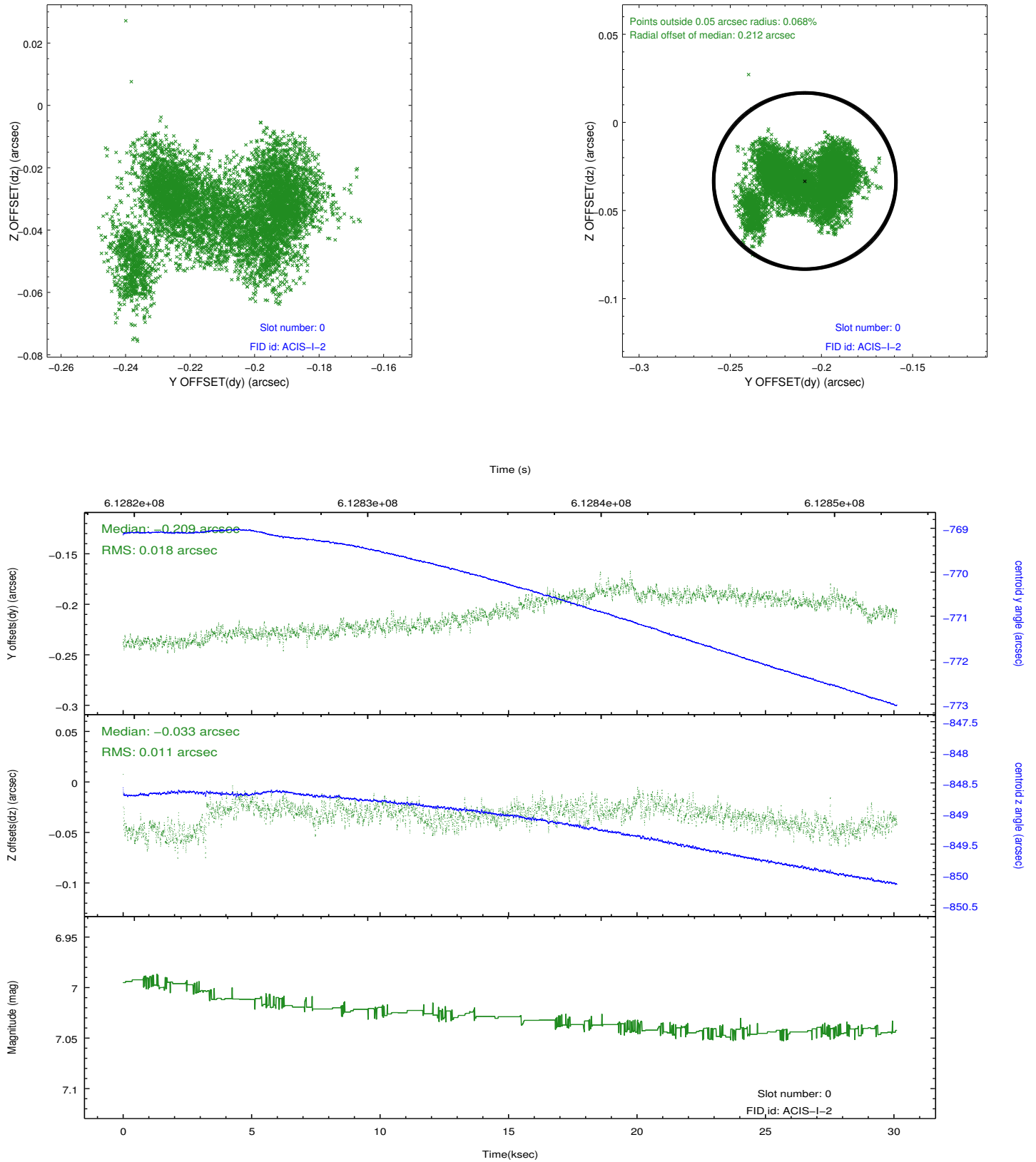


2.4.5 Slot 7

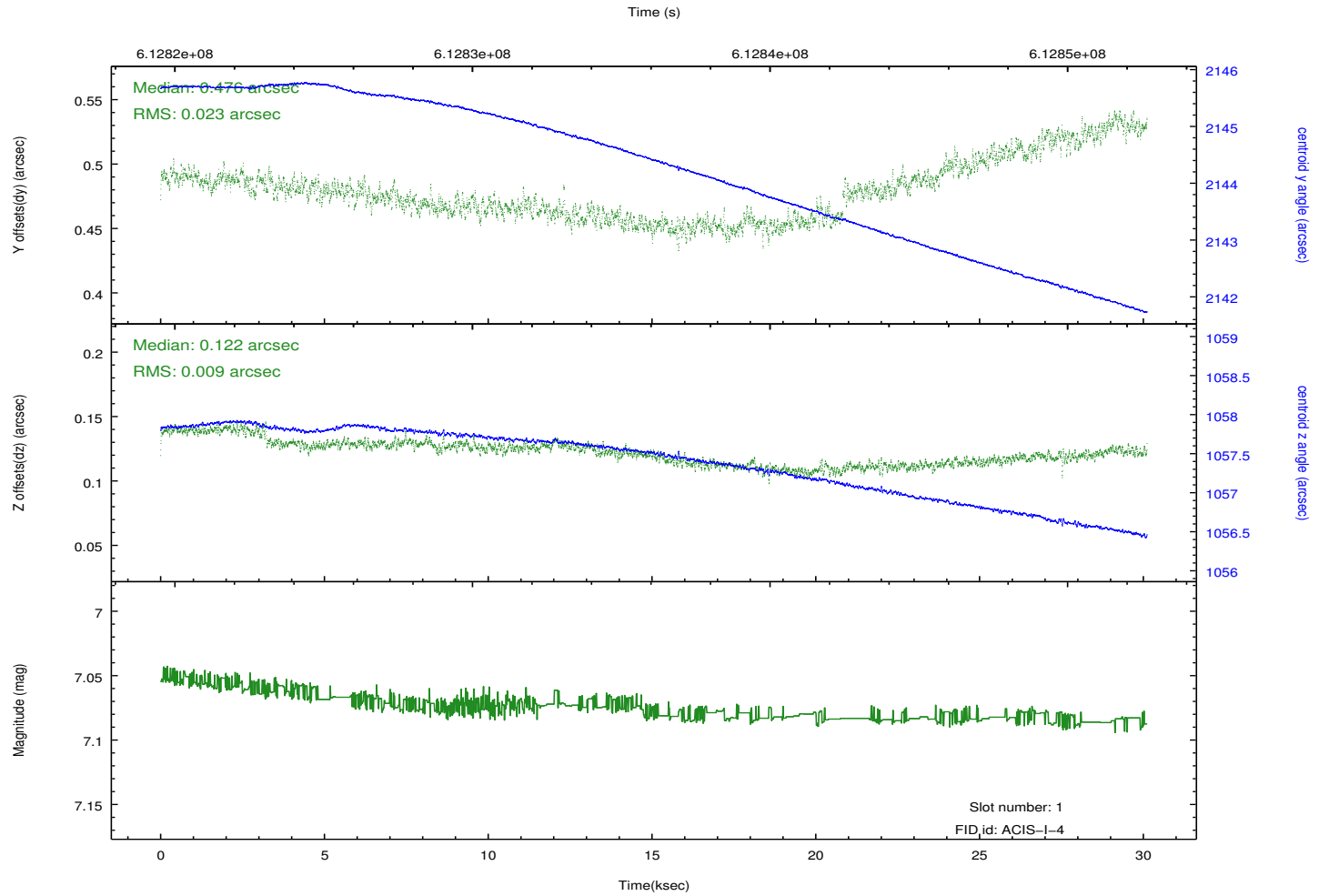
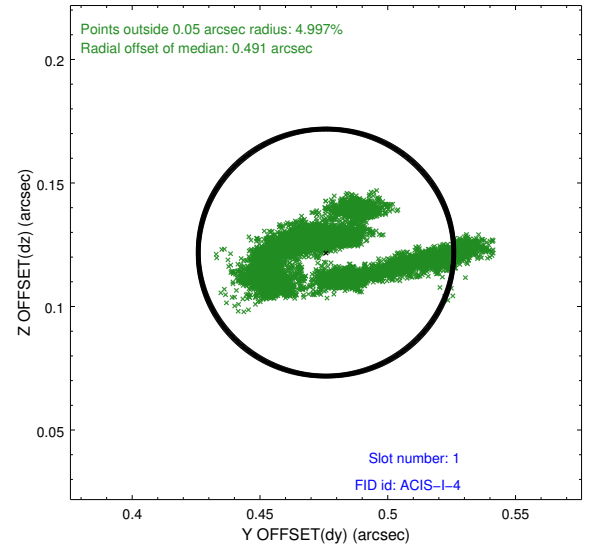
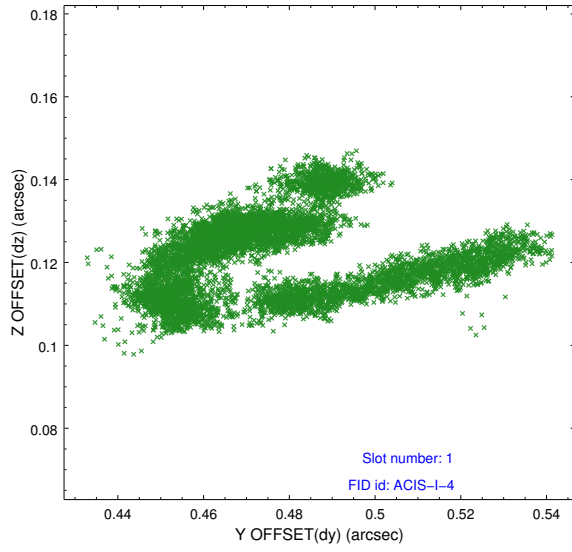


2.5 FID Slots

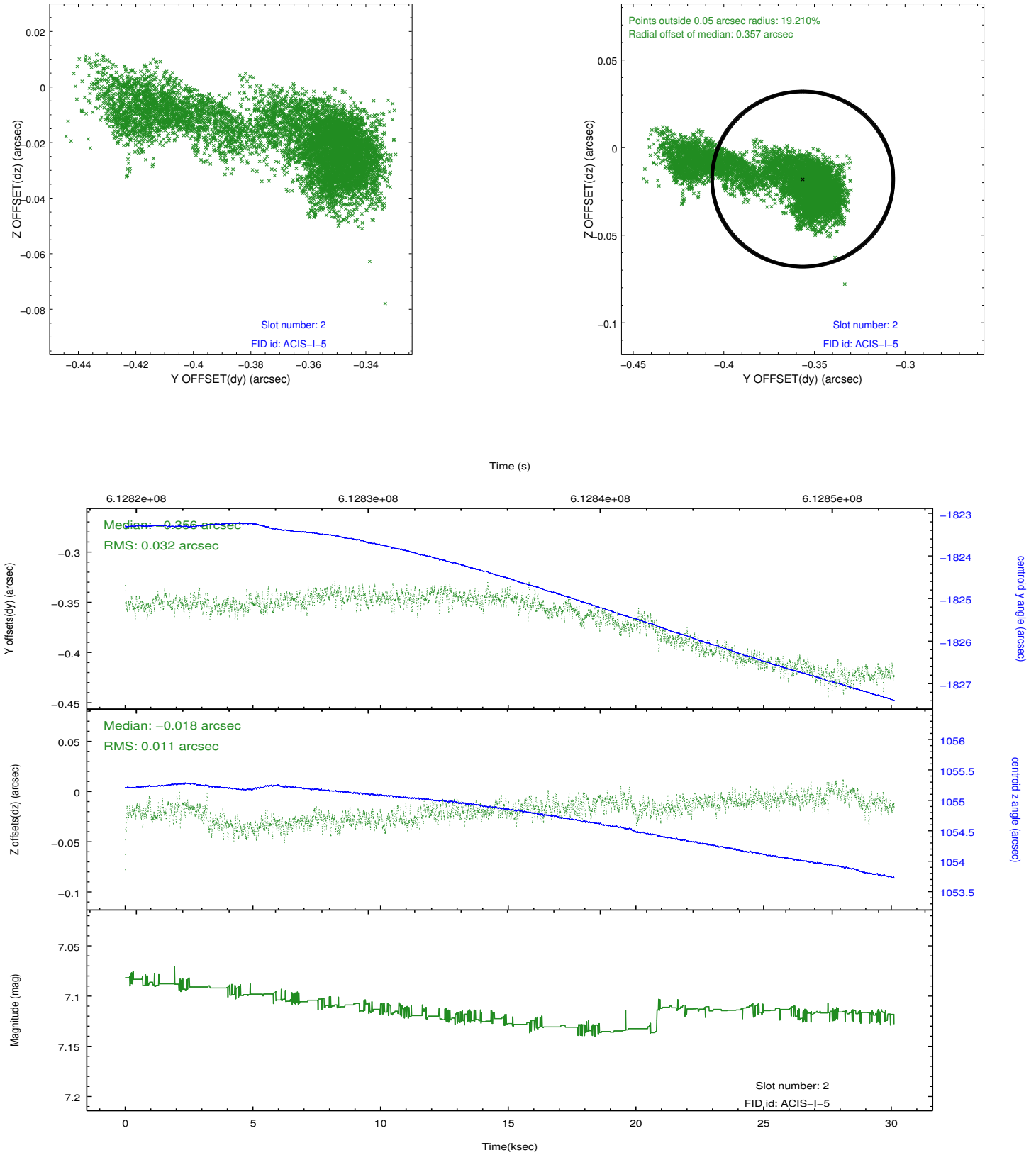
2.5.1 Slot 0



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)	2017.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.254659144402

A.2 Comments