

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19359 - L2 Version 1
Chandra X-Ray Center

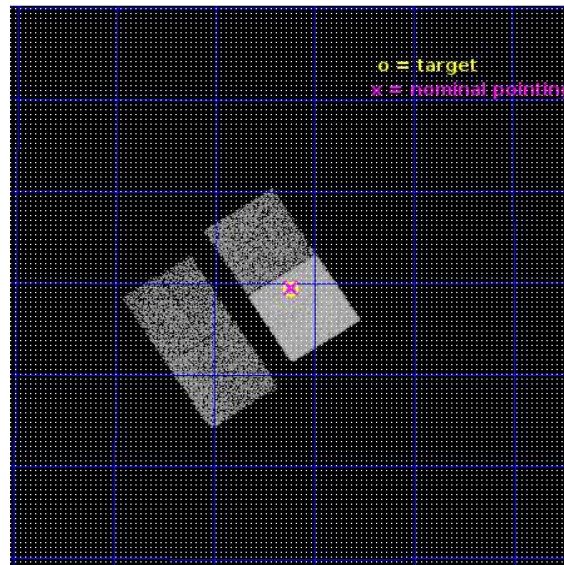
L2 Processing Date : Sep 10 2017

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

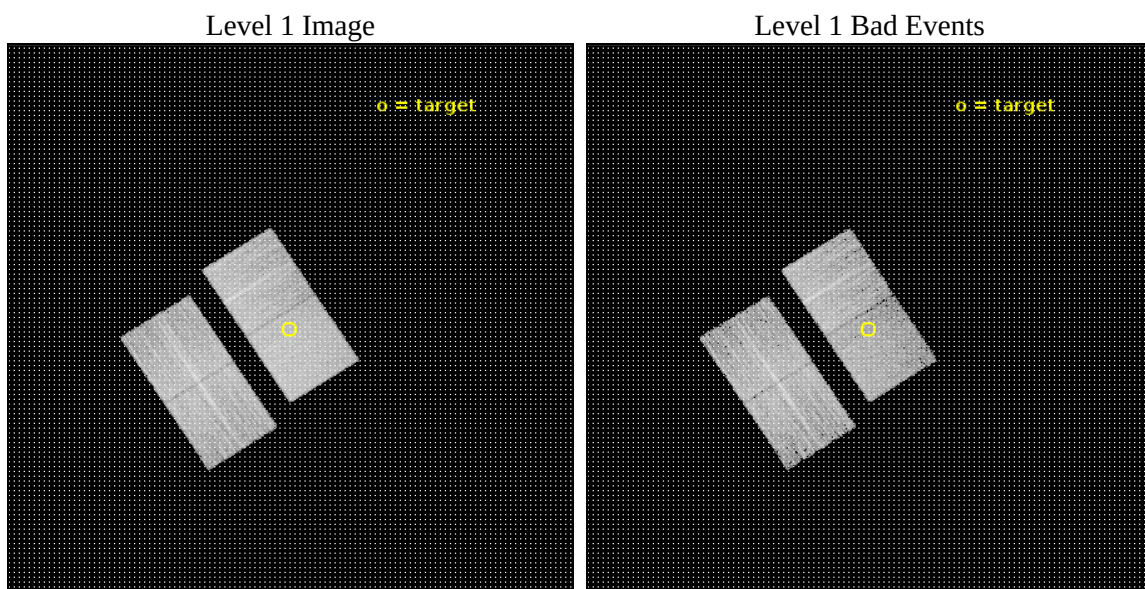
seq_num	601316	Sequence number
obs_id	19359	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 2537	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	123.310833	Observer's specified target RA [deg]
dec_targ	45.989806	Observer's specified target Dec [deg]
ra_nom	123.30811009835	Nominal RA [deg]
dec_nom	45.992482069816	Nominal Dec [deg]
roll_nom	57.312185433109	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10075.000077605	Sum of GTIs [s]
livetime	9943.3627844842	Livetime [s]
ontime2	10075.000077605	Sum of GTIs [s]
ontime3	10075.000077605	Sum of GTIs [s]
ontime6	10075.000077605	Sum of GTIs [s]
ontime7	10075.000077605	Sum of GTIs [s]
l2events	53854	Number of level 2 events



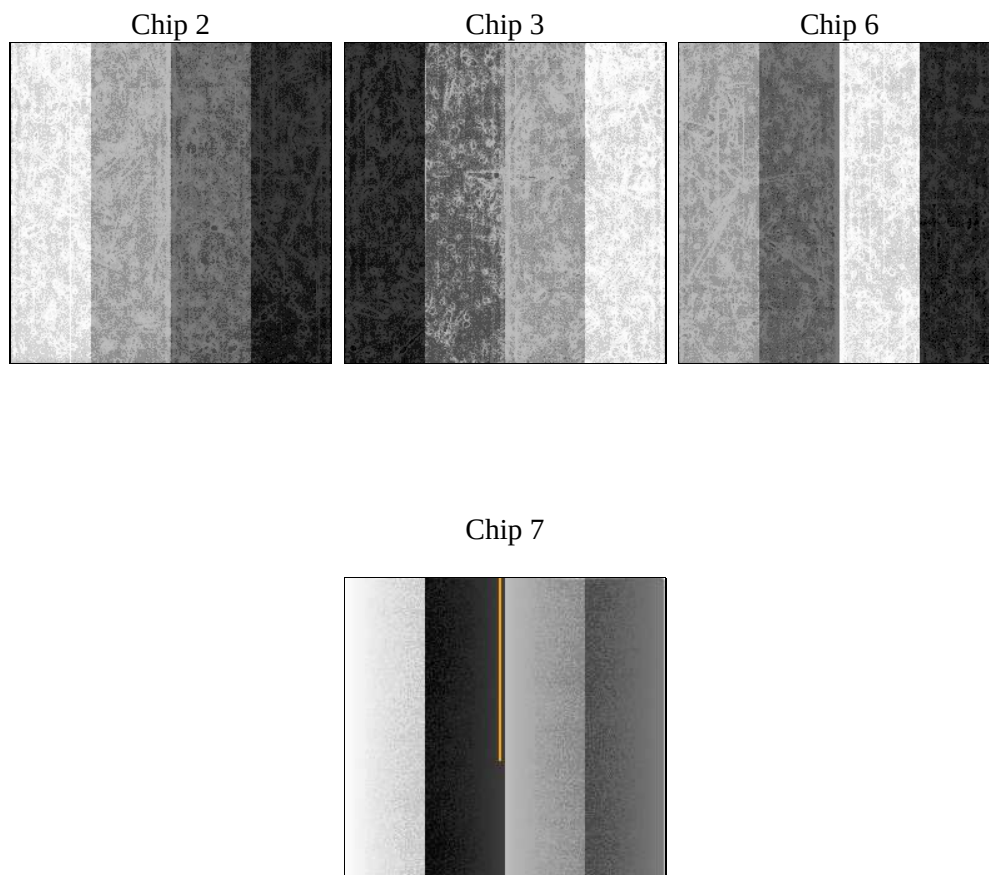
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	10075.000077605	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	10075.000077605	Sum of GTIs [s]
date	2017-09-10T20:19:05	Date and time of file creation	ontime3	10075.000077605	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10075.000077605	Sum of GTIs [s]
			ontime7	10075.000077605	Sum of GTIs [s]
			l1events	283988	Number of level 1 events

2.1.4 Events

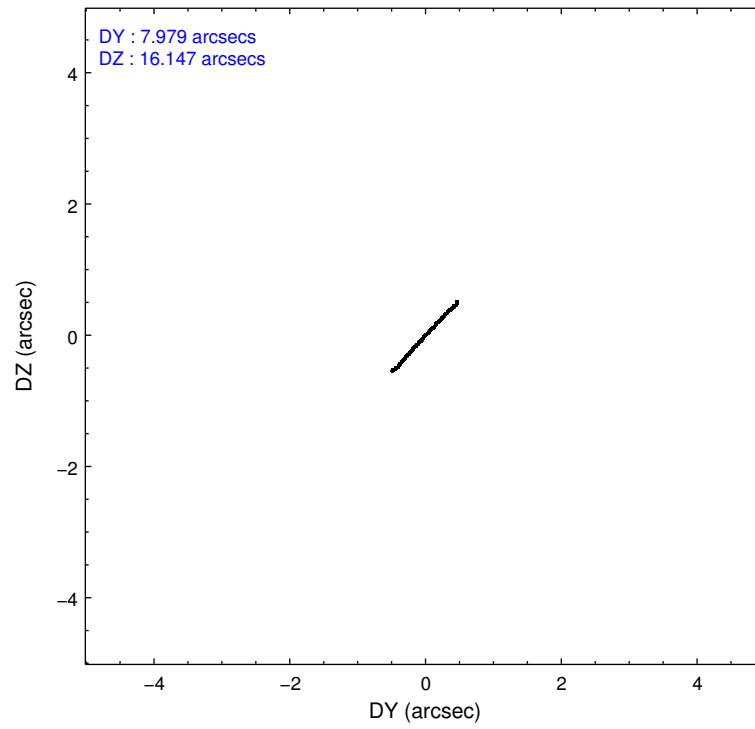
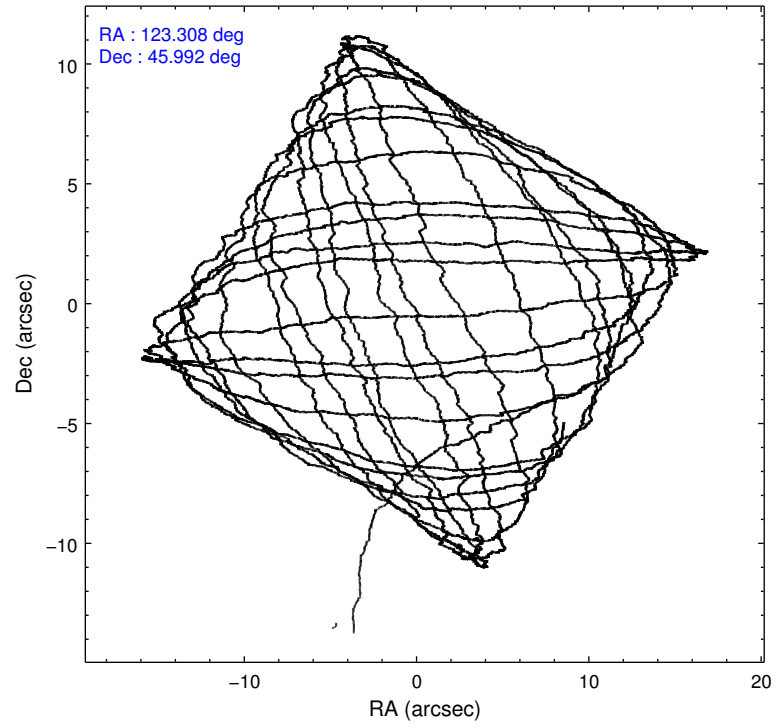
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	67744	65065	69966	81213
rejected events	59298	57888	61970	44883
rejected %	87%	88%	88%	55%

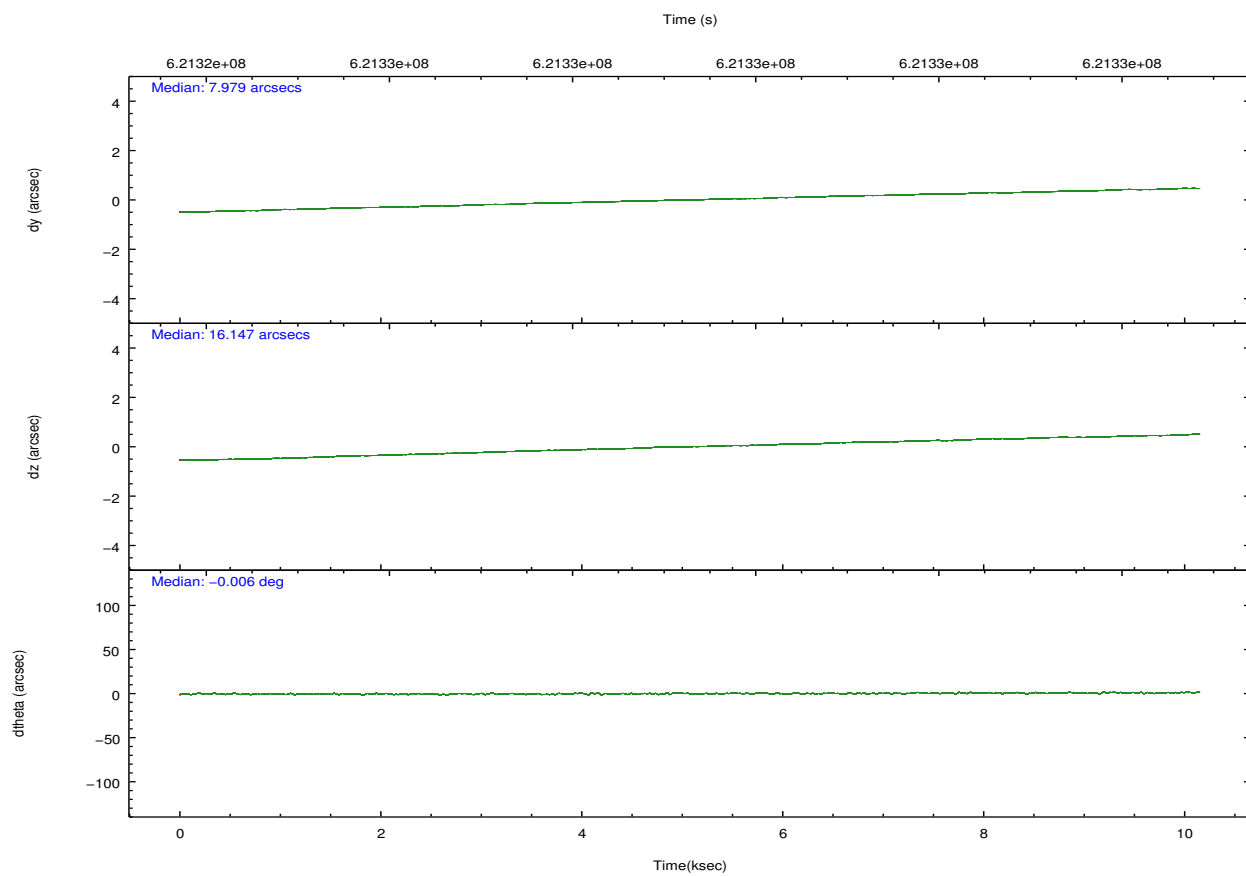
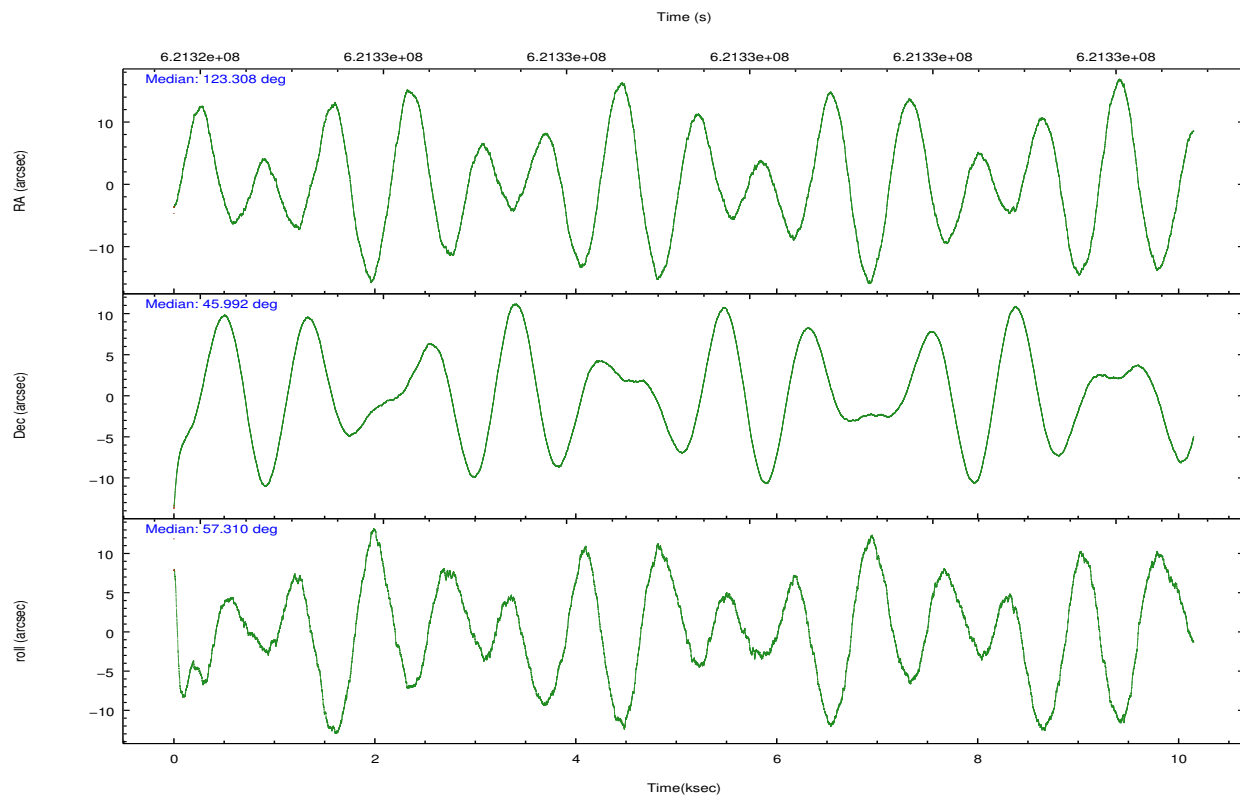
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3205	2845	2808	3400
	4%	4%	4%	4%
grade 1 events	42	40	40	131
	0%	0%	0%	0%
grade 2 events	2372	1580	2137	8117
	3%	2%	3%	9%
grade 3 events	671	723	728	3045
	0%	1%	1%	3%
grade 4 events	851	696	658	2974
	1%	1%	0%	3%
grade 5 events	2475	2997	3076	8093
	3%	4%	4%	9%
grade 6 events	1351	1335	1668	18812
	1%	2%	2%	23%
grade 7 events	56777	54849	58851	36641
	83%	84%	84%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	123.306747	123.3081100983538	Subarray requested	NONE	NONE
[deg] Pointing Dec	45.965090	45.99248206981627	Alternating exposures requested	N	N
[deg] Pointing Roll	57.156532	57.31218543310916	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	621324358.184000	621323184.05062			
Observation start date	2017-09-09T06:04:49	2017-09-09T05:46:24			
[s] Observation end time (MET)	621334358.184000	621335357.97633			
Observation end date	2017-09-09T08:51:29	2017-09-09T09:09:17			
Read mode	TIMED	TIMED			

2.3 Aspect



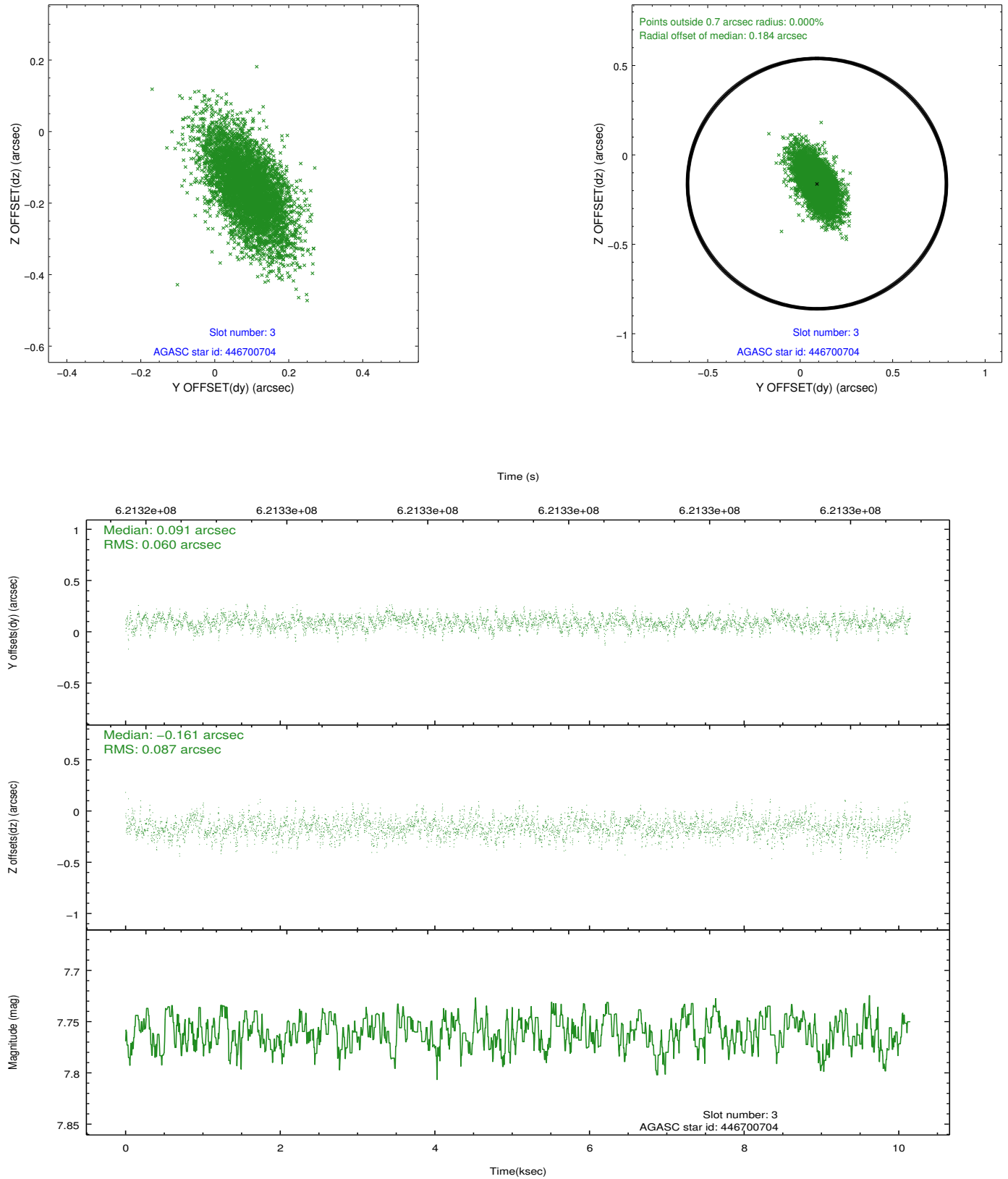


Slot Statistics

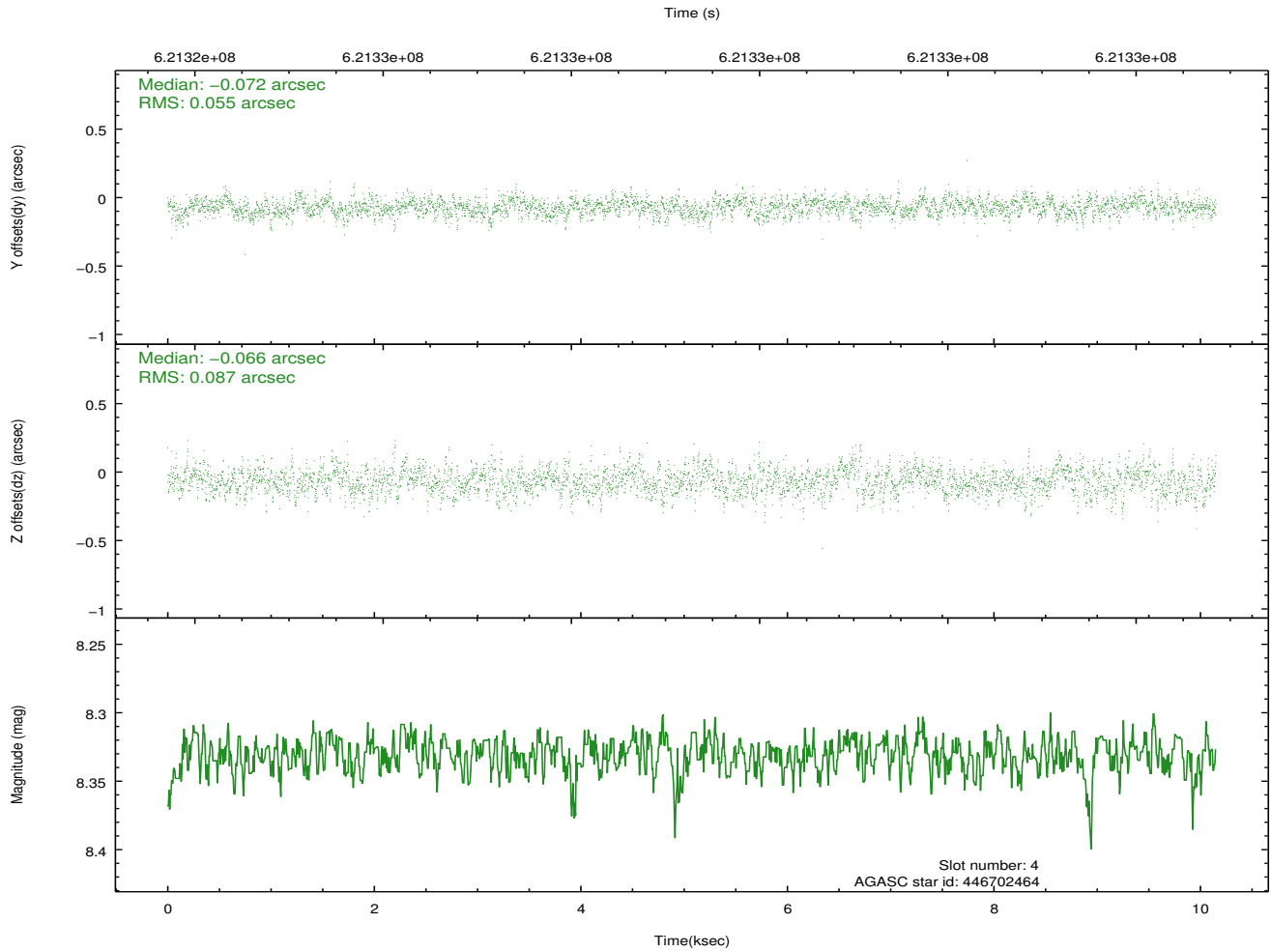
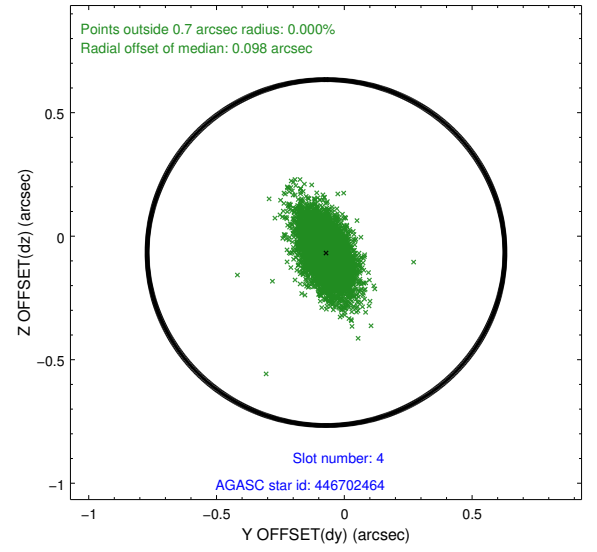
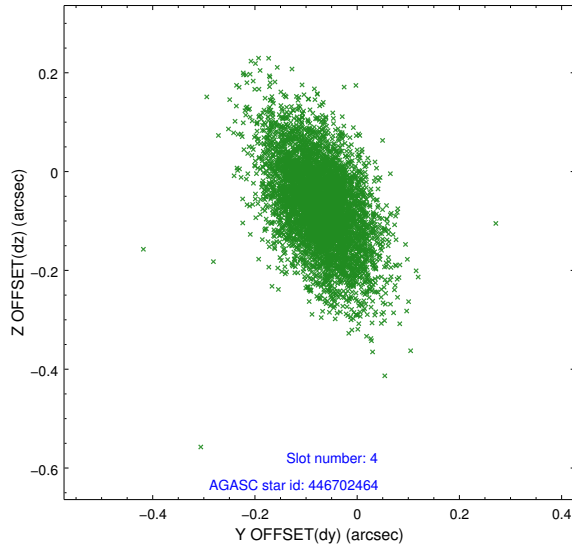
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	6.92	2476	-0.048	-0.071	0.009	0.017	0.000000	0.000000	935.25	-1733.24
1	FID		ACIS-S-4	6.94	2476	0.139	0.034	0.006	0.010	0.000000	0.000000	2153.10	170.50
2	FID		ACIS-S-6	7.08	2476	-0.115	0.048	0.009	0.017	0.000000	0.000000	401.76	808.44
3	GUIDE	used	446700704	7.76	4951	0.091	-0.161	0.107	0.196	122.336007	45.767500	-1907.73	1670.19
4	GUIDE	used	446702464	8.33	4950	-0.072	-0.066	0.104	0.189	122.883562	45.996502	-476.94	952.48
5	GUIDE	used	446713760	7.99	4952	0.318	0.453	0.108	0.188	122.916423	45.425621	-2164.39	-222.42
6	GUIDE	used	446699552	8.55	4949	-0.264	-0.505	0.110	0.195	123.155373	46.009850	-70.12	405.22
7	GUIDE	used	447623624	9.08	4949	-0.074	0.283	0.155	0.262	124.403655	46.226996	2289.75	-1772.95

2.4 Star Slots

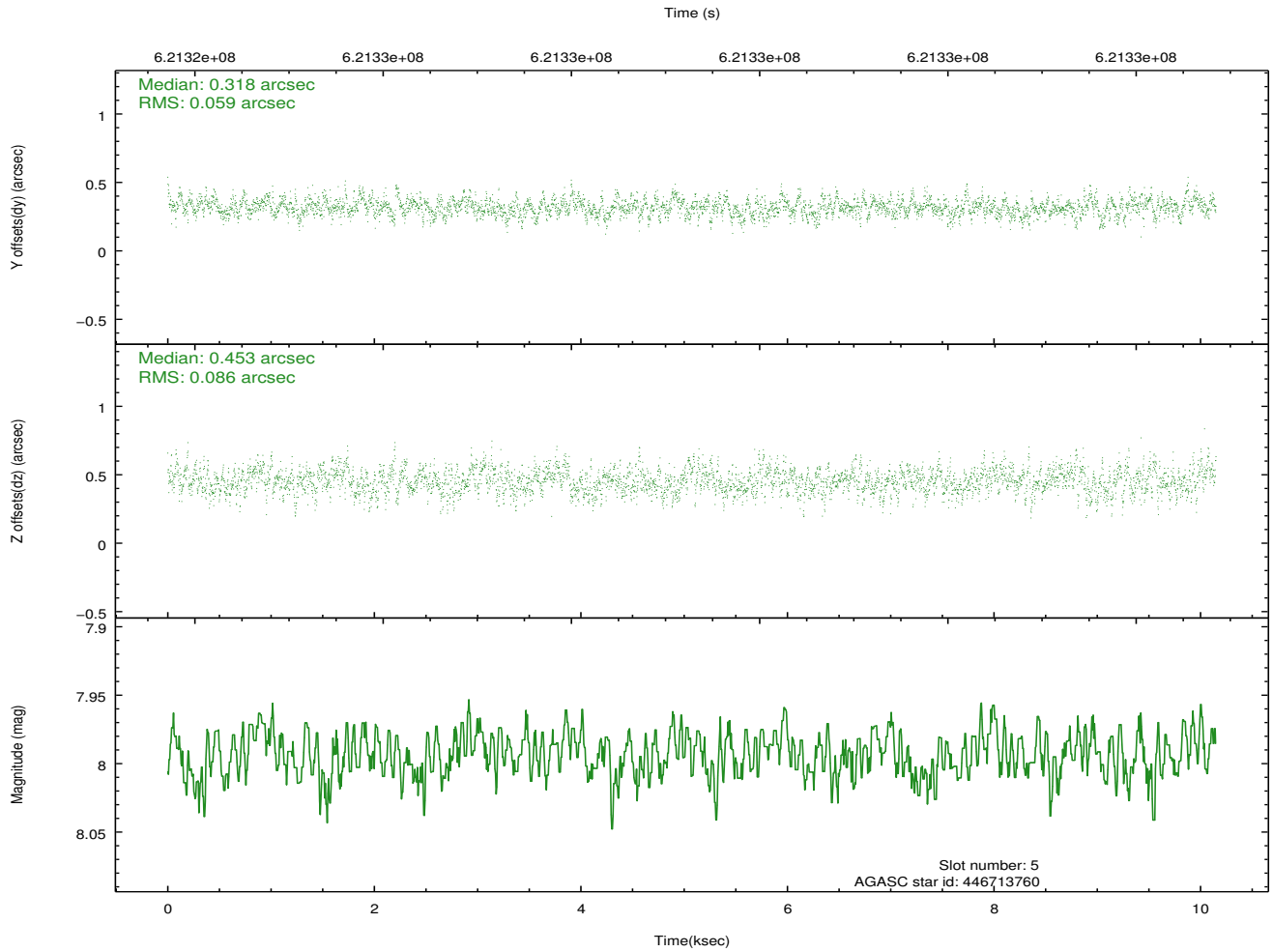
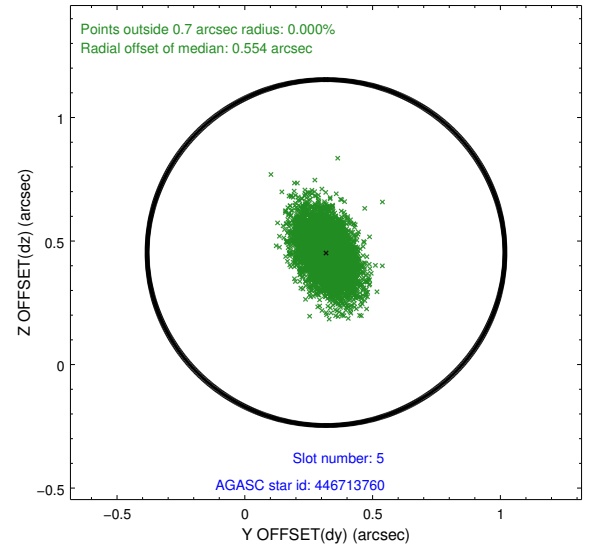
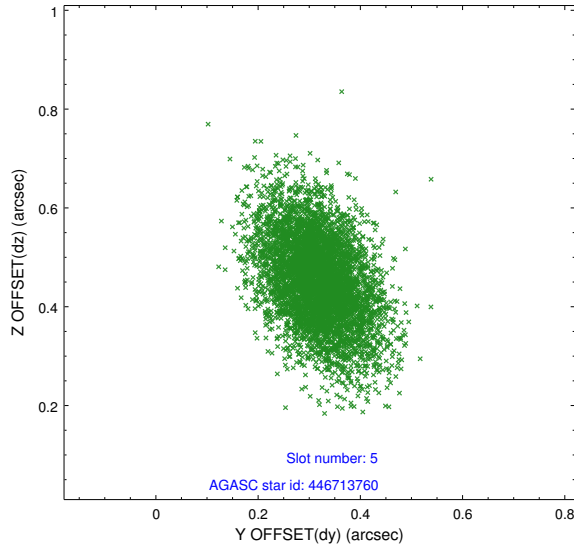
2.4.1 Slot 3



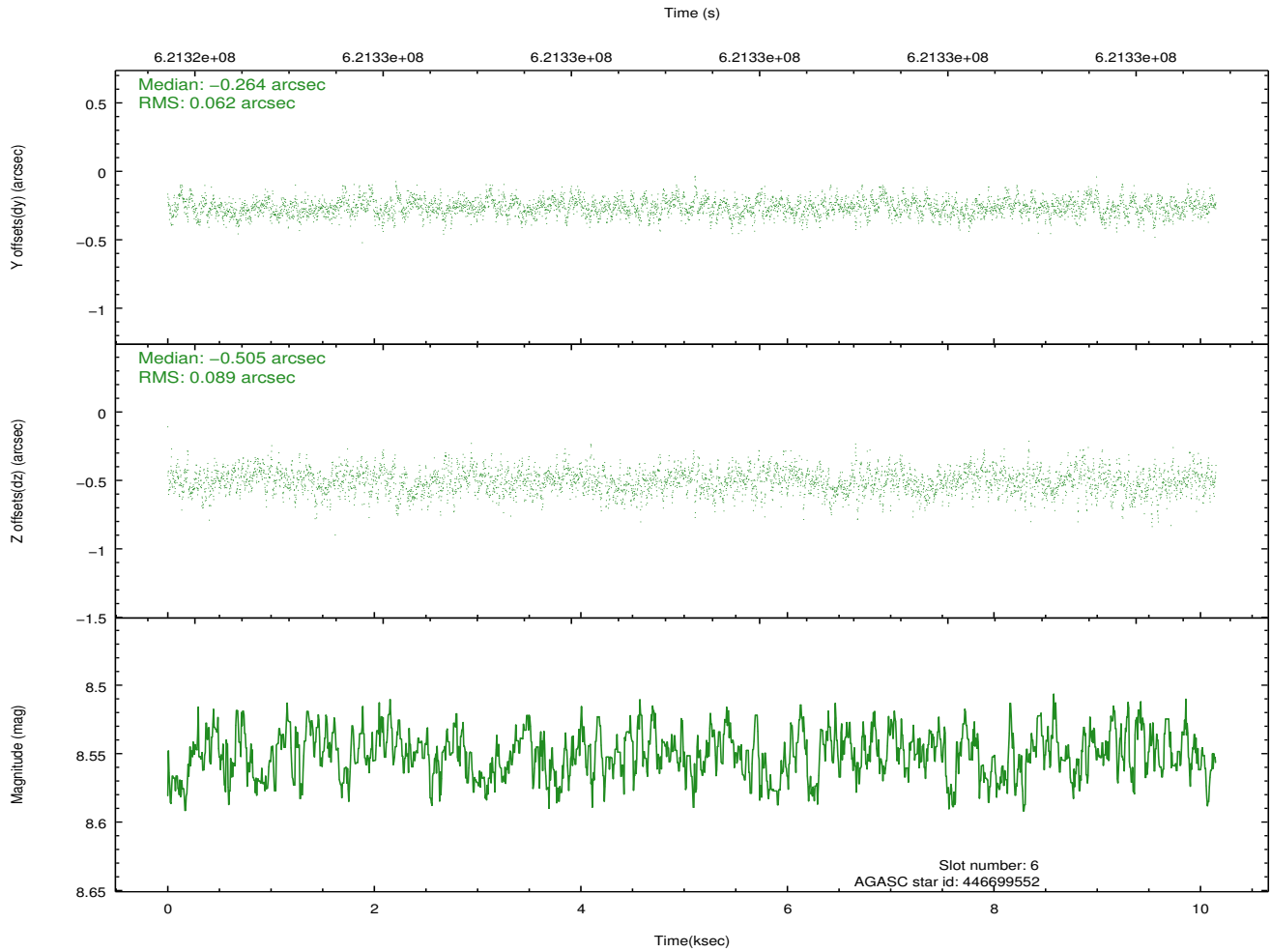
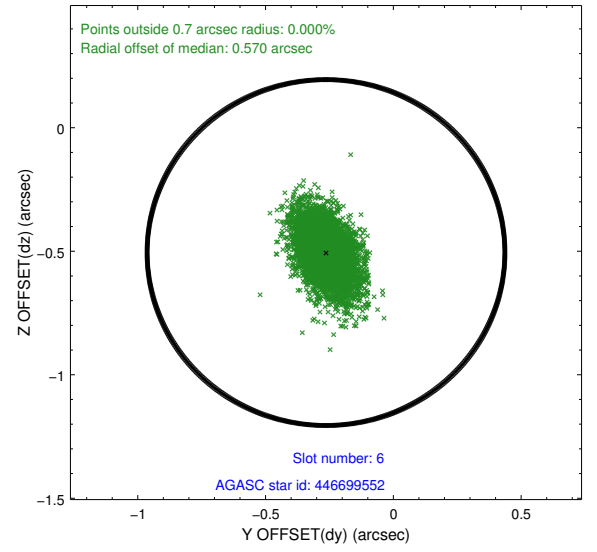
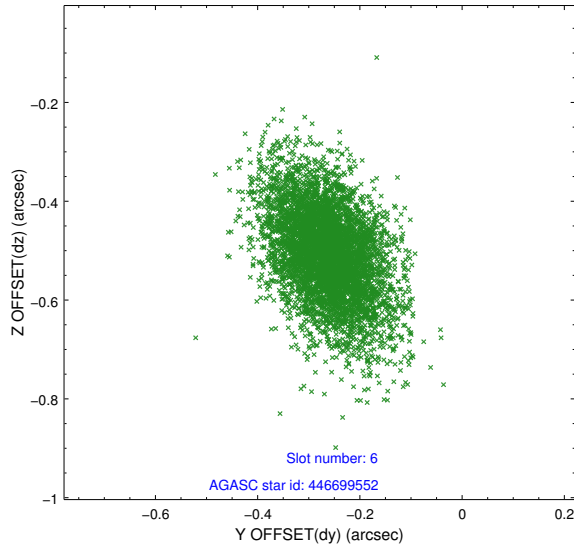
2.4.2 Slot 4



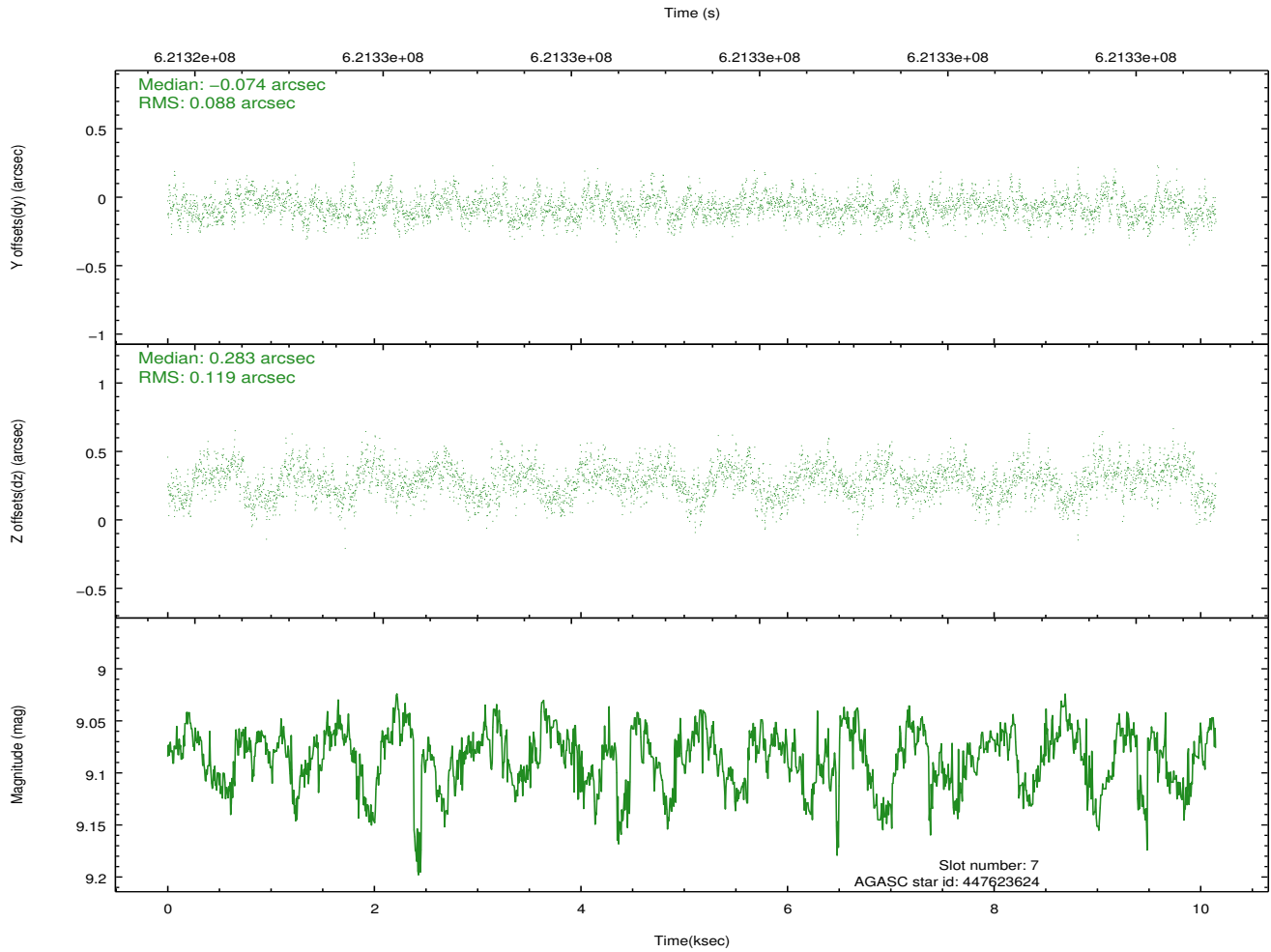
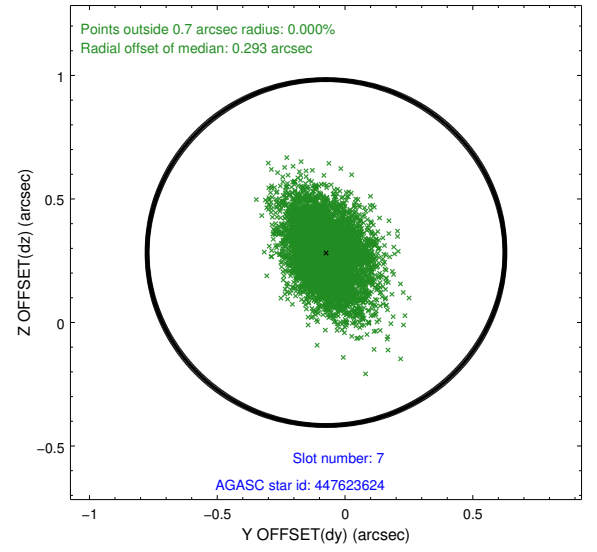
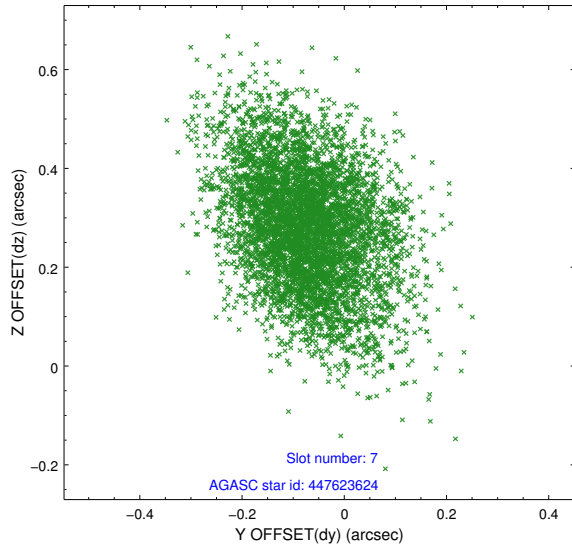
2.4.3 Slot 5



2.4.4 Slot 6

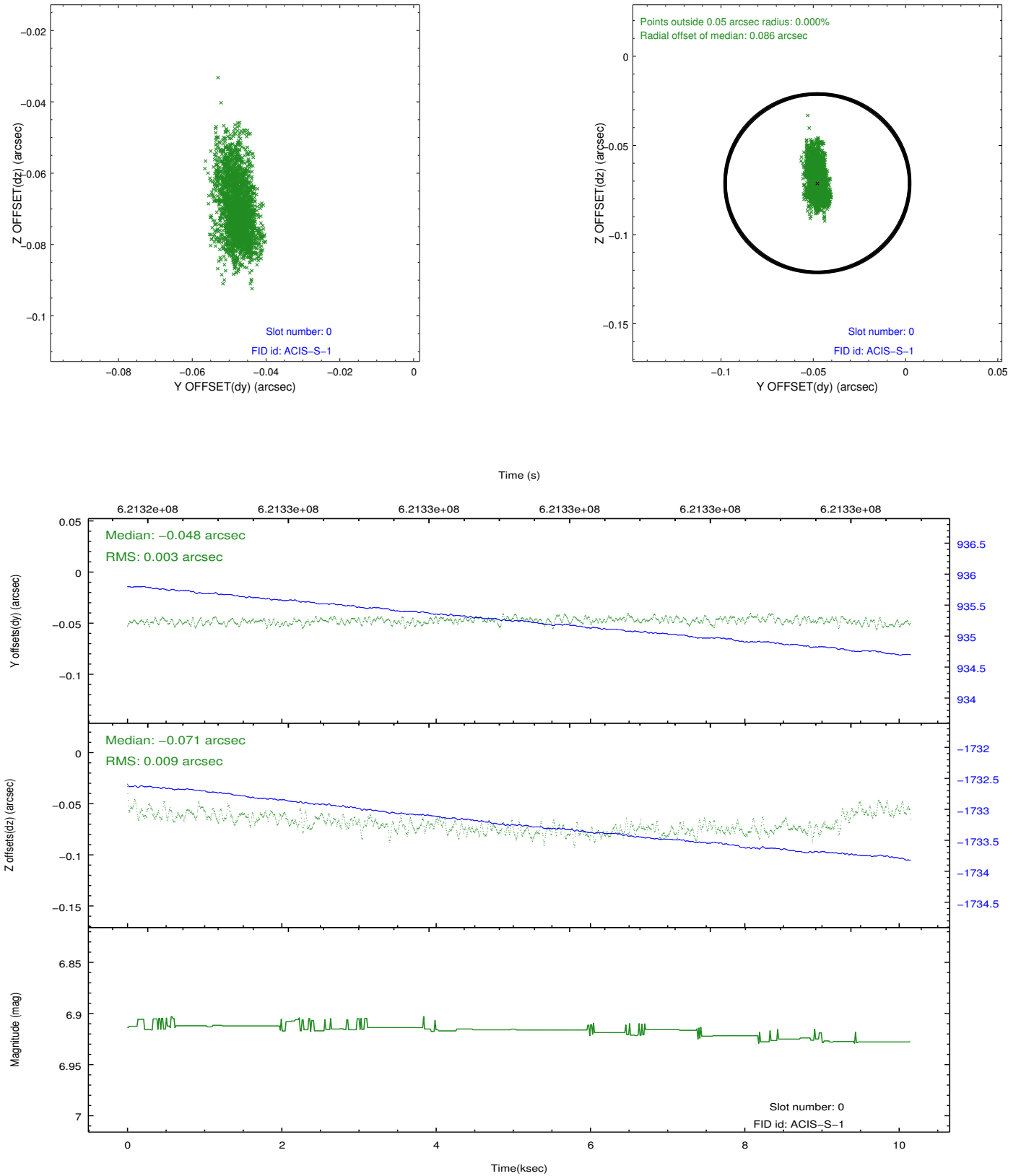


2.4.5 Slot 7

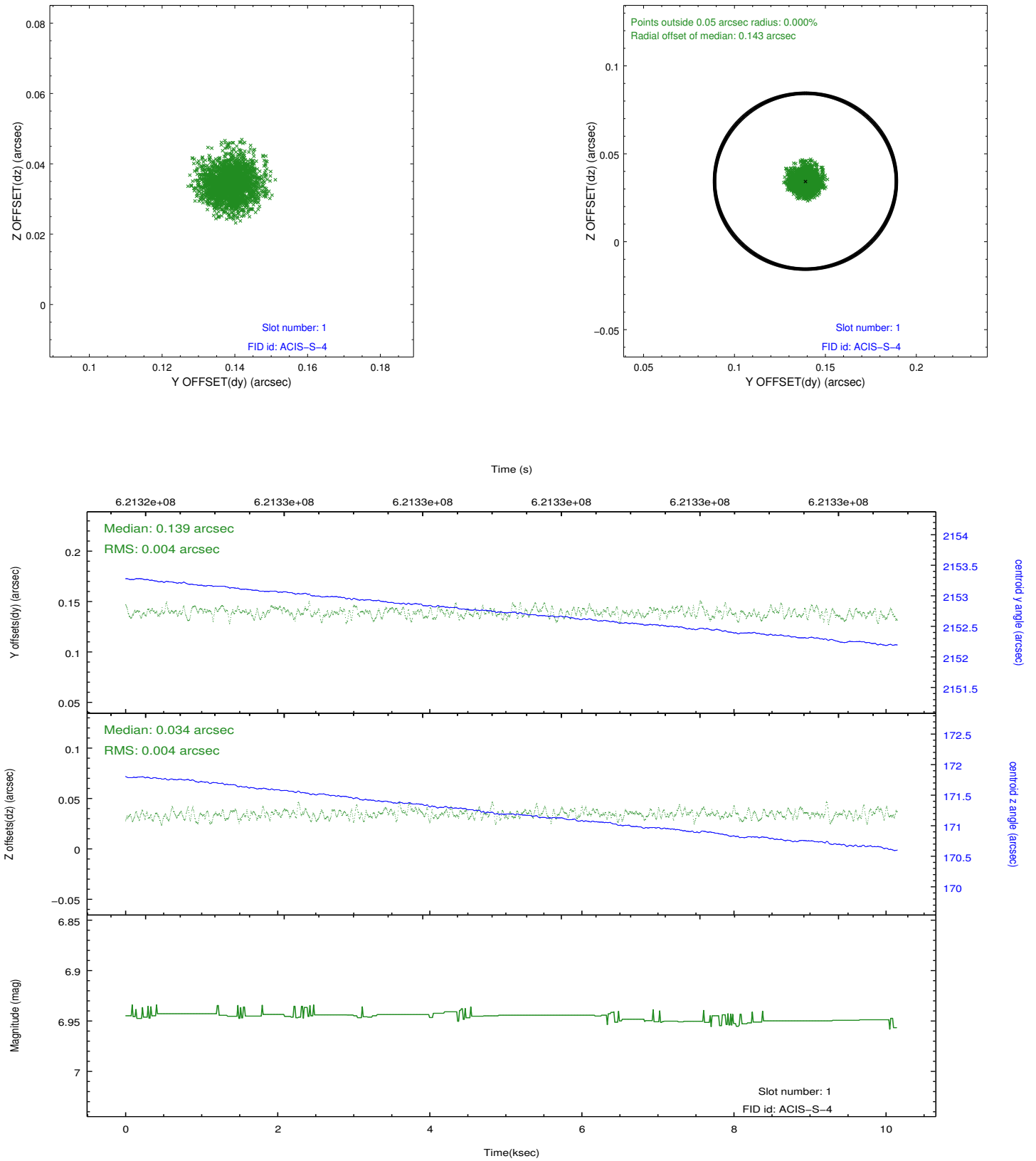


2.5 FID Slots

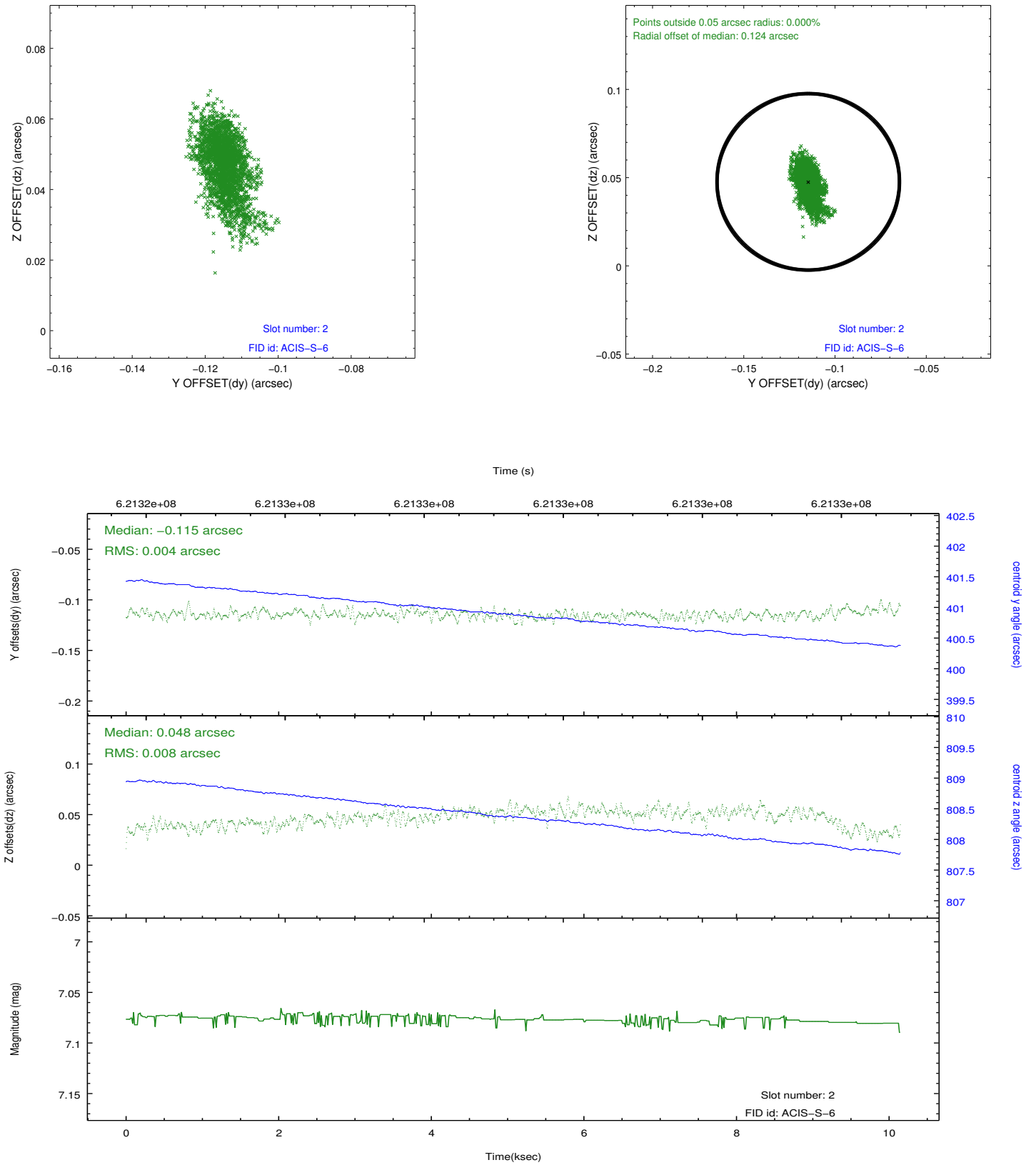
2.5.1 Slot 0



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)	2017.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.075000077605

A.2 Comments