

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19033 - L2 Version 1
Chandra X-Ray Center

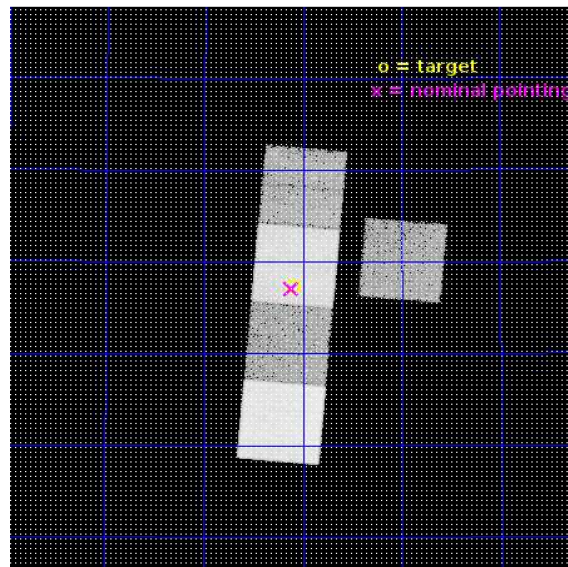
L2 Processing Date : Jun 27 2017

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

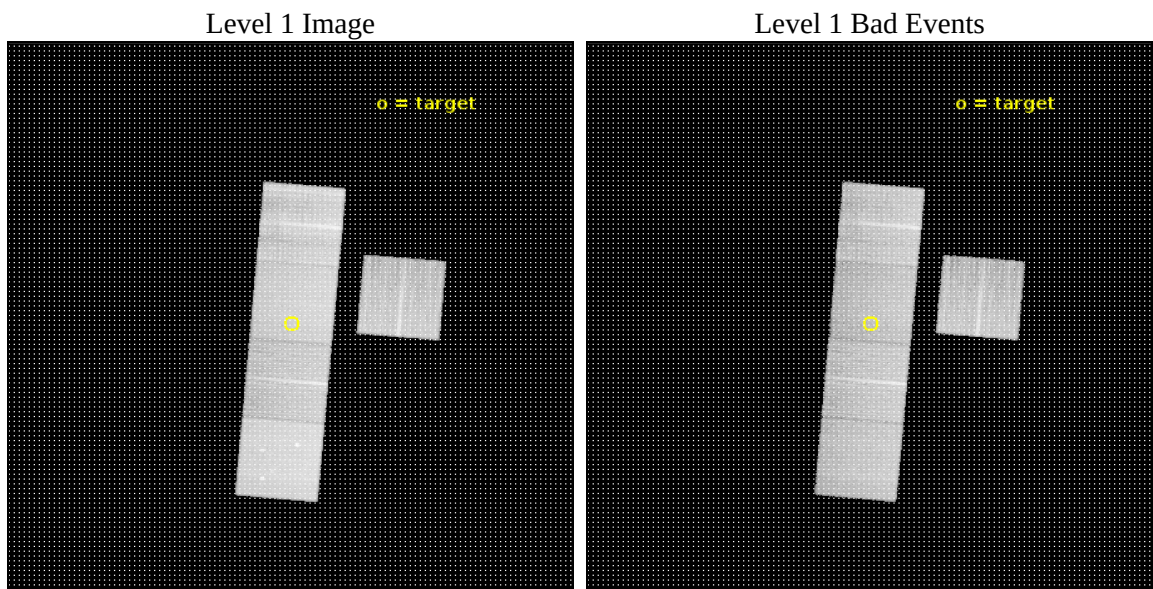
seq_num	502683	Sequence number
obs_id	19033	Observation id
title	Source of Energy and pre-explosion progenitor evolution of Super-luminous Supernovae	Proposal title
observer	Raffaella Margutti	Principal investigator
object	SN2017egm	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	154.773417	Observer's specified target RA [deg]
dec_targ	46.453911	Observer's specified target Dec [deg]
ra_nom	154.77943922478	Nominal RA [deg]
dec_nom	46.451243278032	Nominal Dec [deg]
roll_nom	274.97335476878	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24052.900185108	Sum of GTIs [s]
livetime	23738.631336702	Livetime [s]
ontime3	24049.667149186	Sum of GTIs [s]
ontime5	24052.890189648	Sum of GTIs [s]
ontime6	24046.5672189	Sum of GTIs [s]
ontime7	24052.900185108	Sum of GTIs [s]
ontime8	24052.767069578	Sum of GTIs [s]
l2events	270213	Number of level 2 events



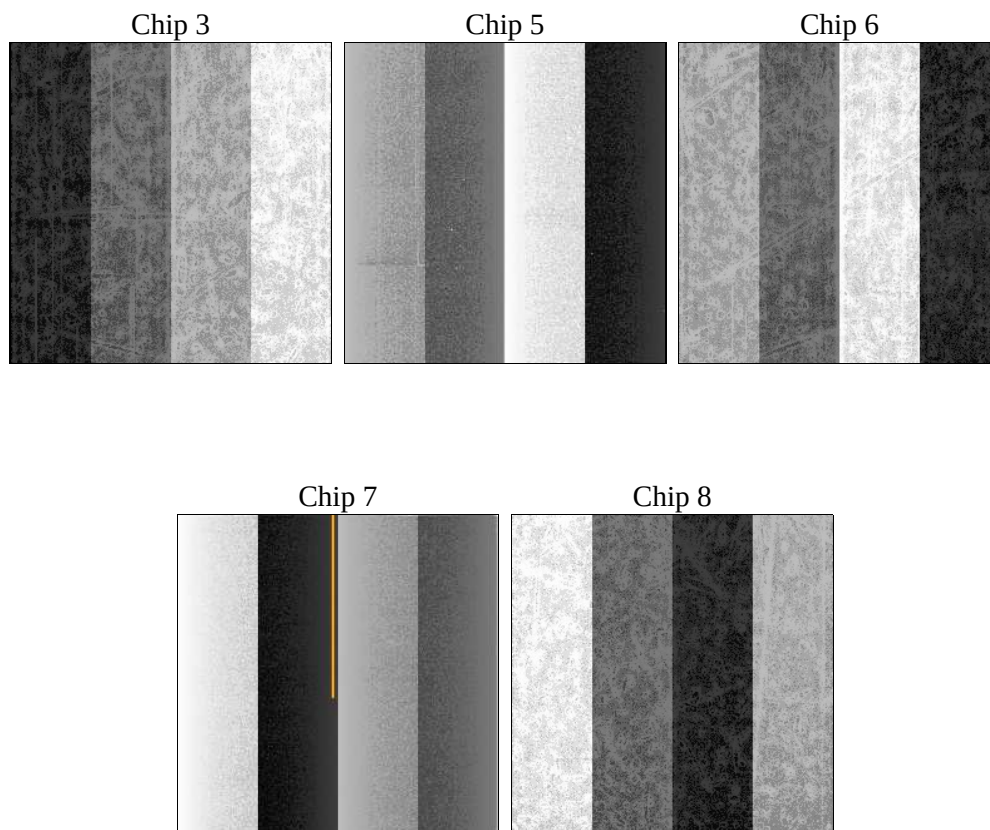
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	24052.900185108	Sum of GTIs [s]
caldsver	4.7.5	 	ontime3	24049.667149186	Sum of GTIs [s]
date	2017-06-27T05:43:26	Date and time of file creation	ontime5	24052.890189648	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	24046.5672189	Sum of GTIs [s]
			ontime7	24052.900185108	Sum of GTIs [s]
			ontime8	24052.767069578	Sum of GTIs [s]
			l1events	1038488	Number of level 1 events

2.1.4 Events

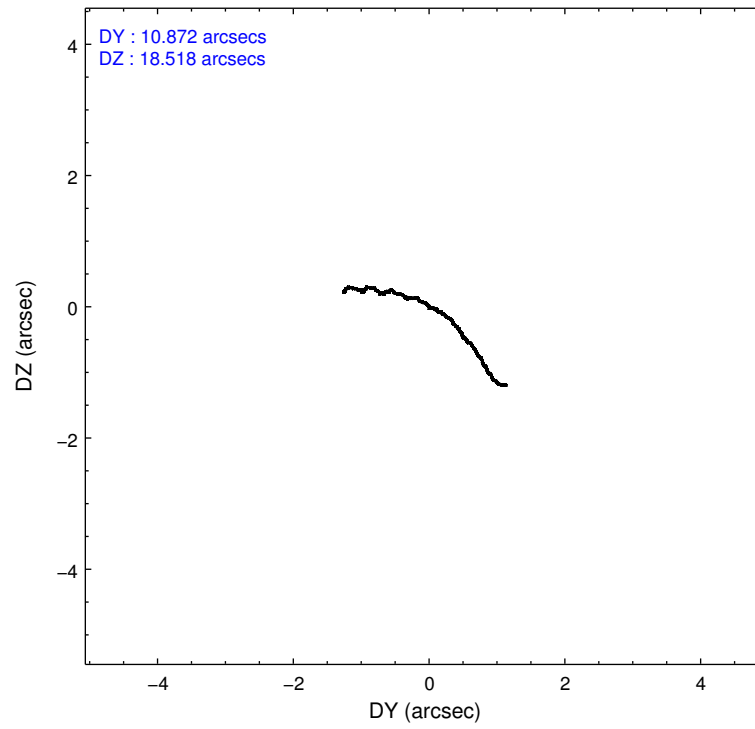
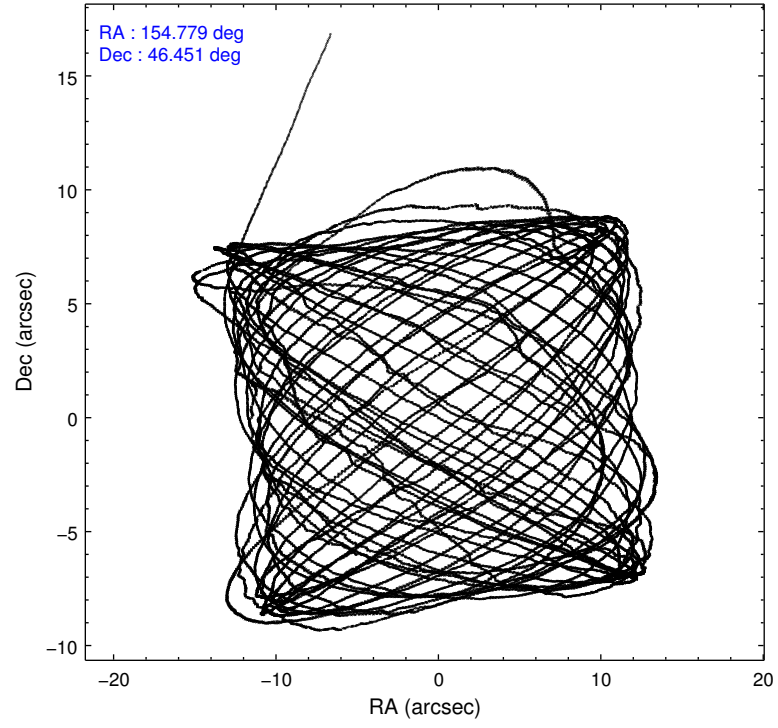
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	158919	268379	172124	216396	222670
rejected events	141009	138455	152875	121487	160123
rejected %	88%	51%	88%	56%	71%

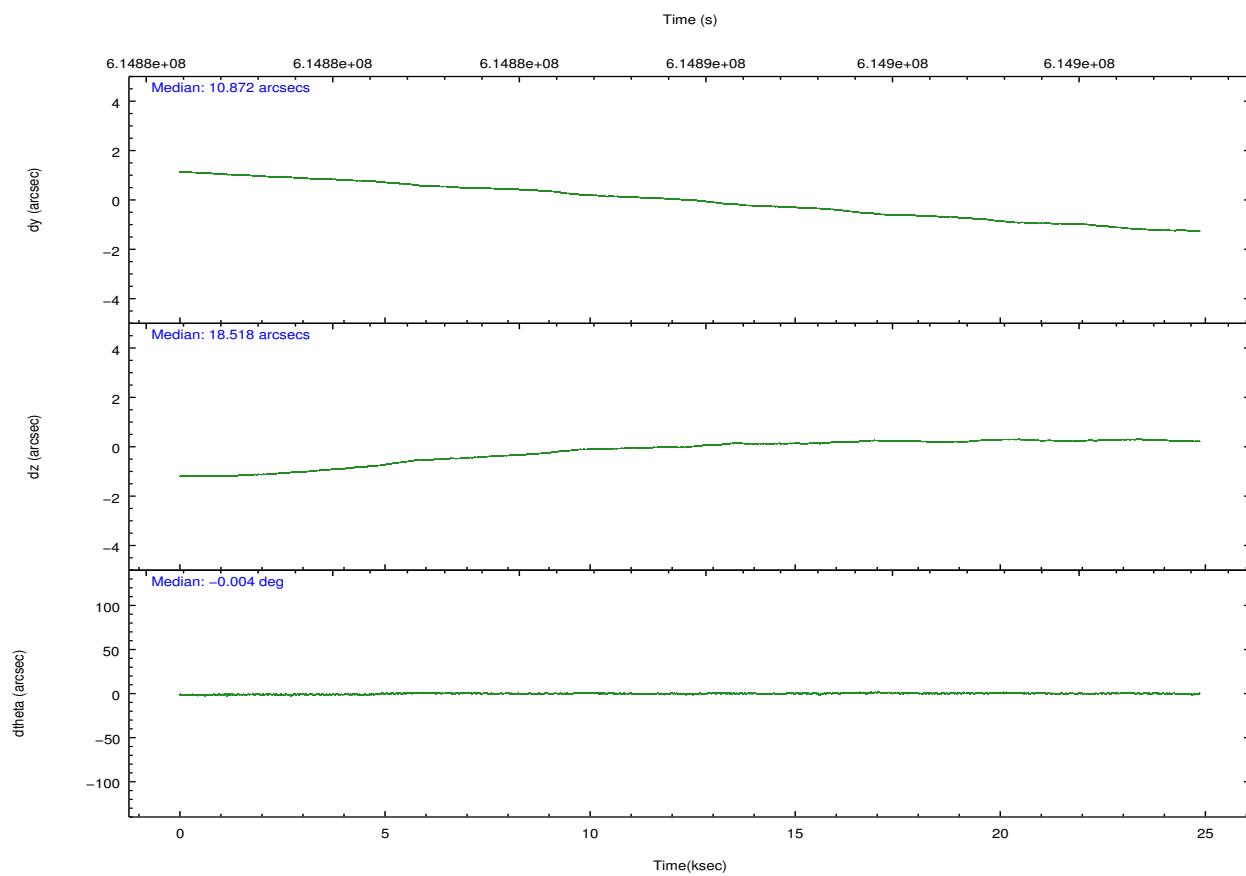
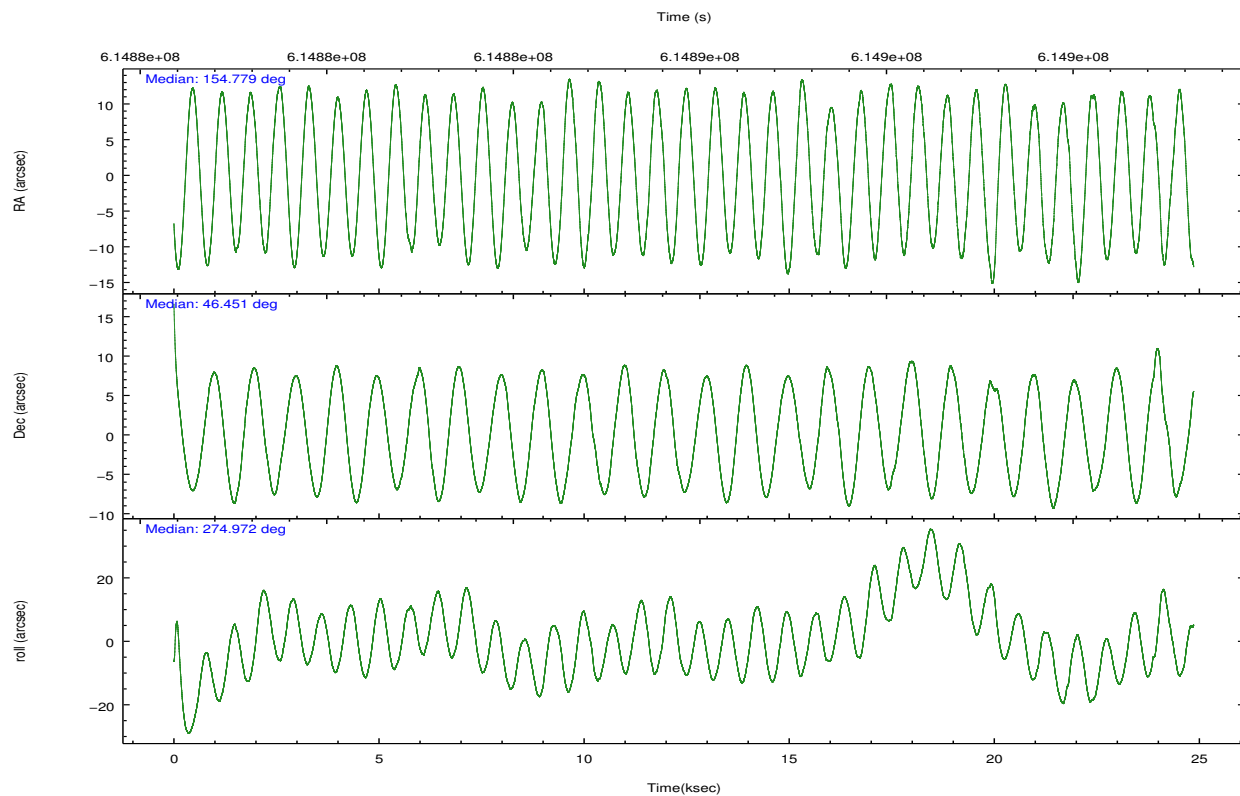
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6658	9831	6440	8158	18279
	4%	3%	3%	3%	8%
grade 1 events	91	625	87	320	171
	0%	0%	0%	0%	0%
grade 2 events	3887	40371	4448	20211	14831
	2%	15%	2%	9%	6%
grade 3 events	1857	4367	1965	7749	6275
	1%	1%	1%	3%	2%
grade 4 events	1819	4177	1844	7604	5976
	1%	1%	1%	3%	2%
grade 5 events	7886	19506	8016	21748	11988
	4%	7%	4%	10%	5%
grade 6 events	3692	71195	4556	51202	17186
	2%	26%	2%	23%	7%
grade 7 events	133029	118307	144768	99404	147964
	83%	44%	84%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	154.756175	154.7794392247786	CCD I2 on	N	N
[deg] Pointing Dec	46.473525	46.45124327803157	CCD I3 on	O1	Y
[deg] Pointing Roll	274.833599	274.9733547687766	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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)	614877989.184000	614876004.39922	CCD S5 on	N	N
Observation start date	2017-06-26T15:25:20	2017-06-26T14:53:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	614901989.184000	614902694.88827	On-chip summing requested	N	N
Observation end date	2017-06-26T22:05:20	2017-06-26T22:18:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



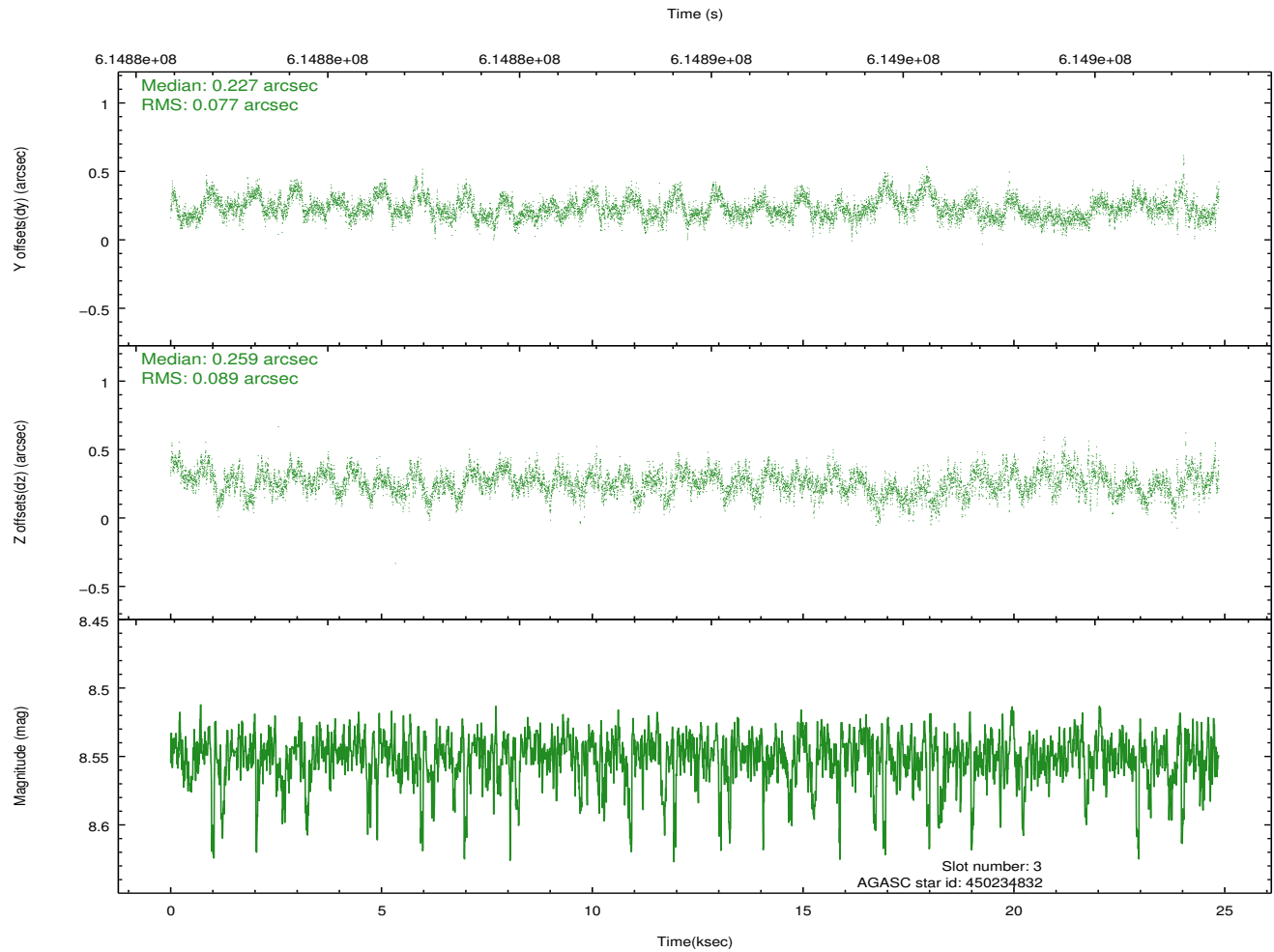
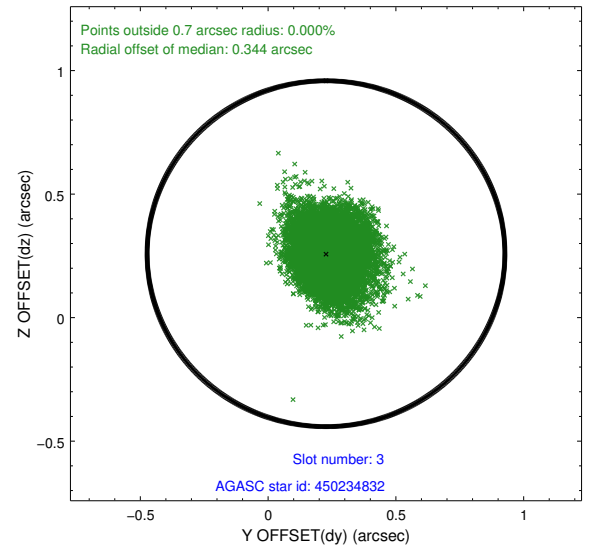
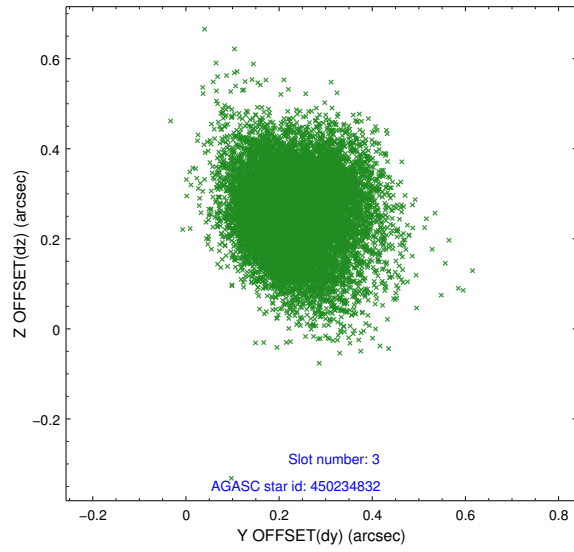


Slot Statistics

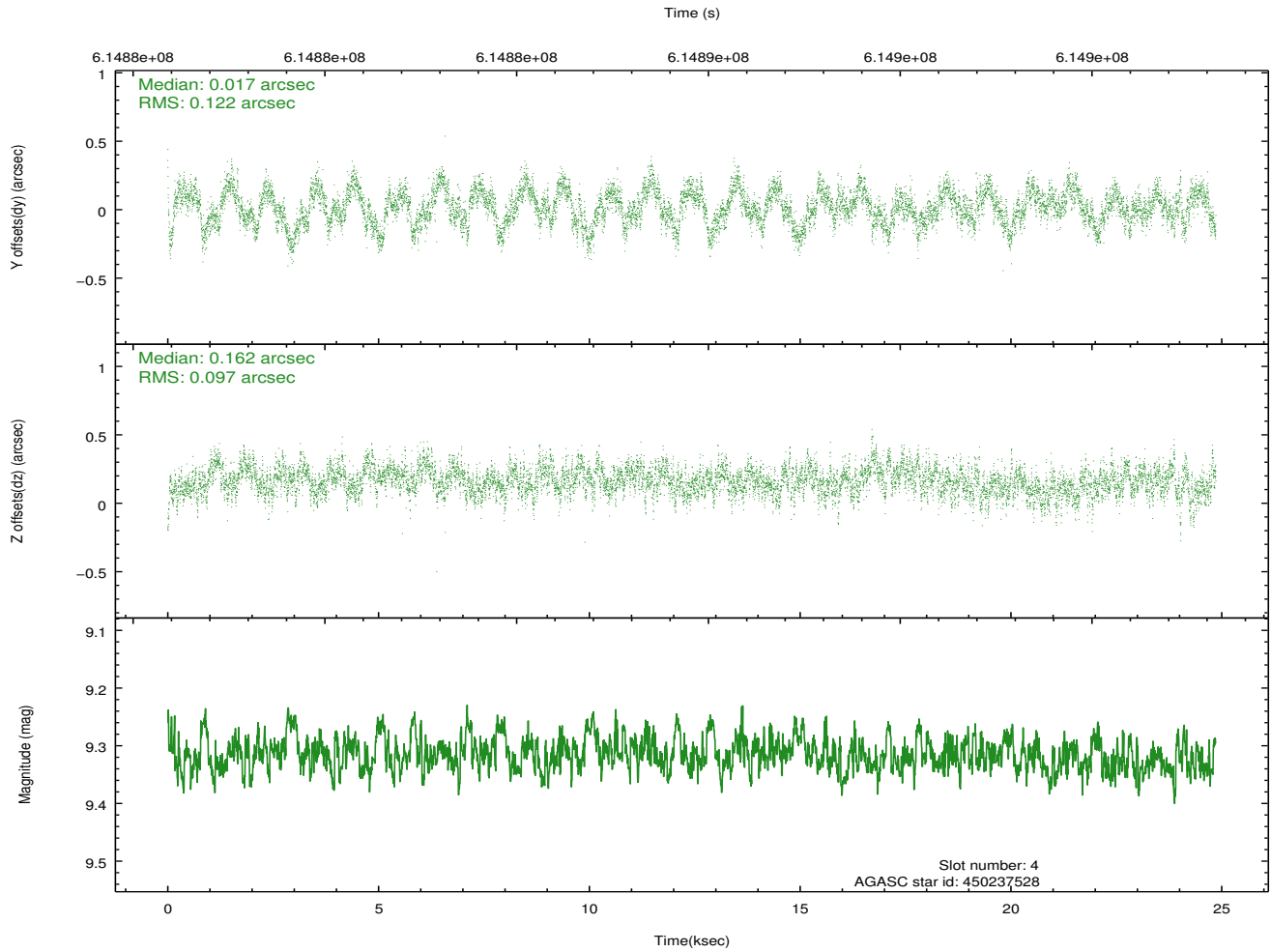
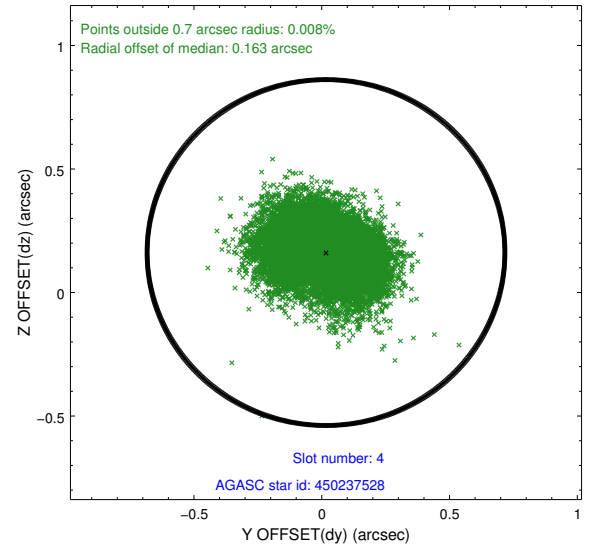
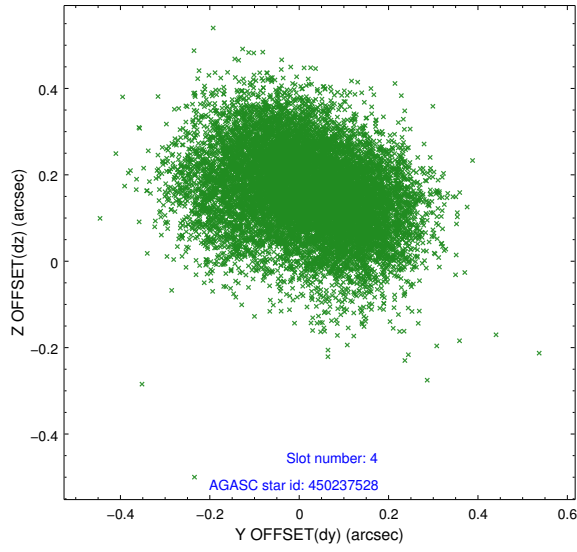
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	6064	-0.154	-0.066	0.017	0.027	0.000000	0.000000	-763.82	-1739.87
1	FID		ACIS-S-4	7.09	6063	0.370	0.092	0.009	0.015	0.000000	0.000000	2149.92	168.65
2	FID		ACIS-S-5	7.09	6063	-0.248	-0.018	0.017	0.029	0.000000	0.000000	-1816.61	162.34
3	GUIDE	used	450234832	8.55	12119	0.227	0.259	0.123	0.204	154.248271	46.789392	-1240.06	-1151.68
4	GUIDE	used	450237528	9.32	12113	0.017	0.162	0.169	0.266	155.230965	45.962739	1928.96	1029.45
5	GUIDE	used	450238440	7.57	12126	-0.385	-0.498	0.104	0.169	155.317530	46.245836	929.54	1323.59
6	GUIDE	used	450238880	9.24	12113	0.057	-0.049	0.172	0.269	155.545362	45.926448	2119.52	1804.25
7	GUIDE	used	450238744	7.36	12121	0.085	0.127	0.104	0.180	154.081514	46.954078	-1870.14	-1505.37

2.4 Star Slots

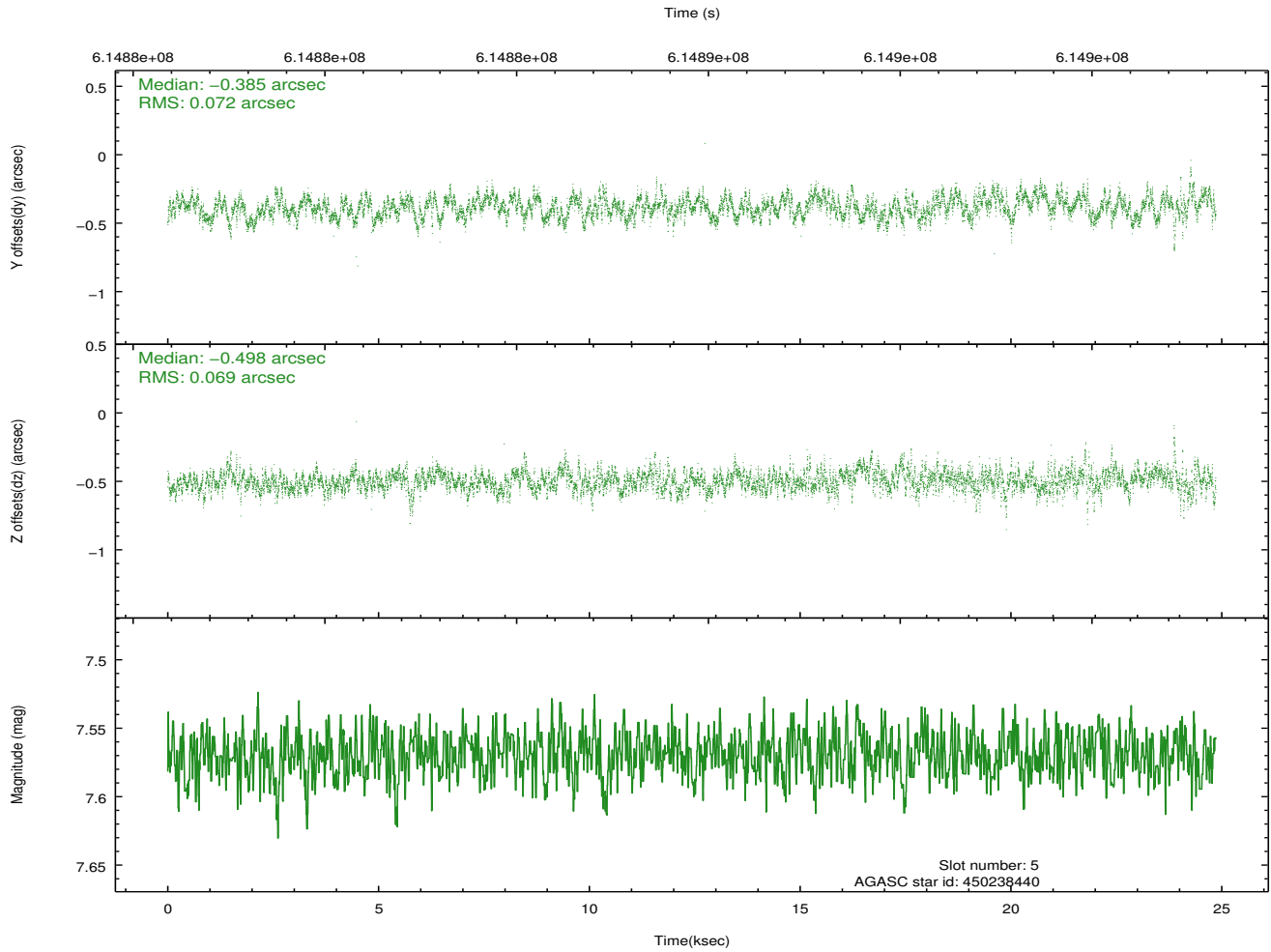
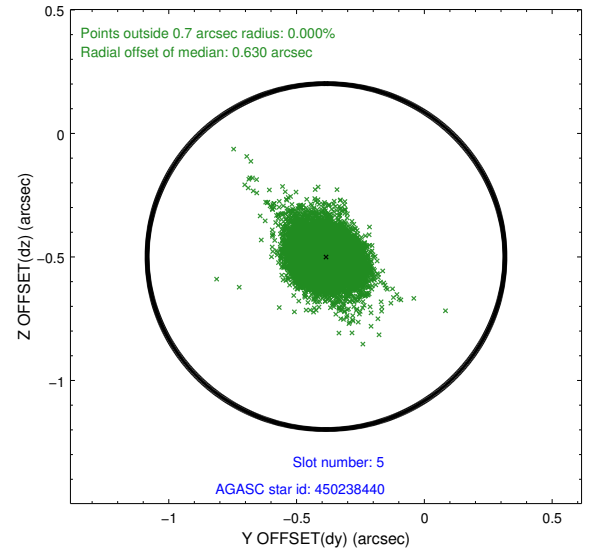
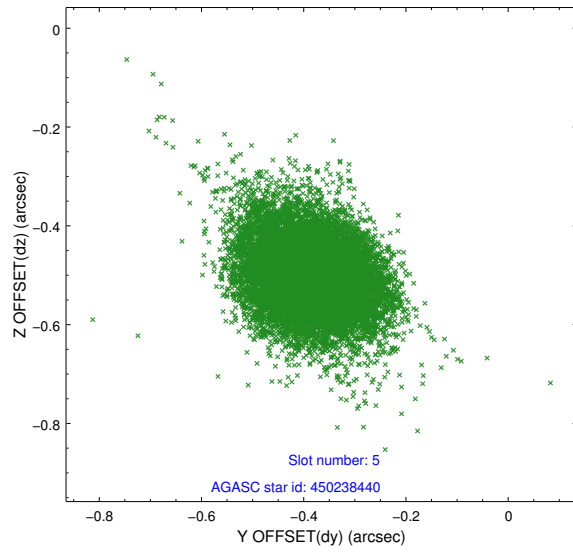
2.4.1 Slot 3



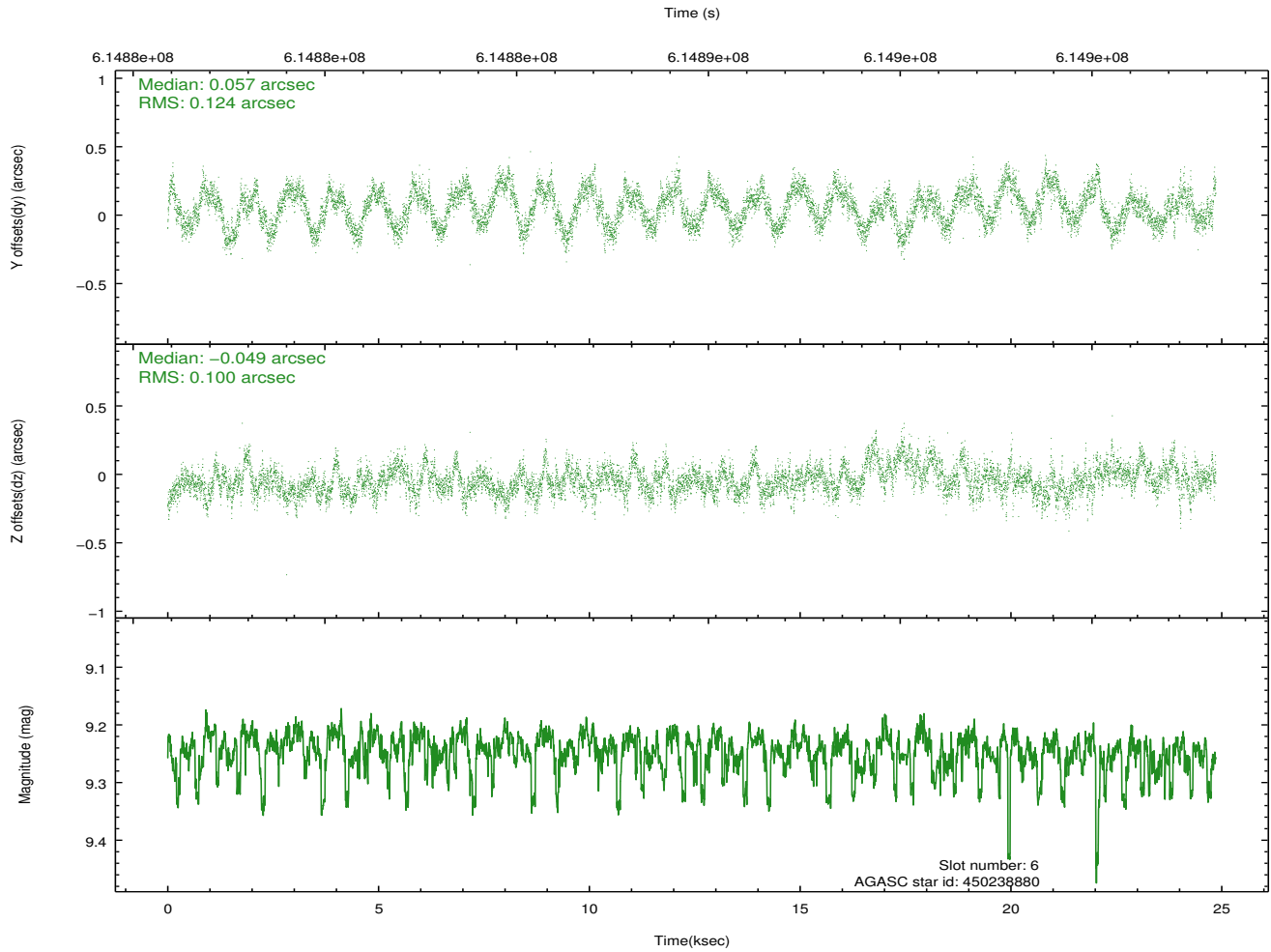
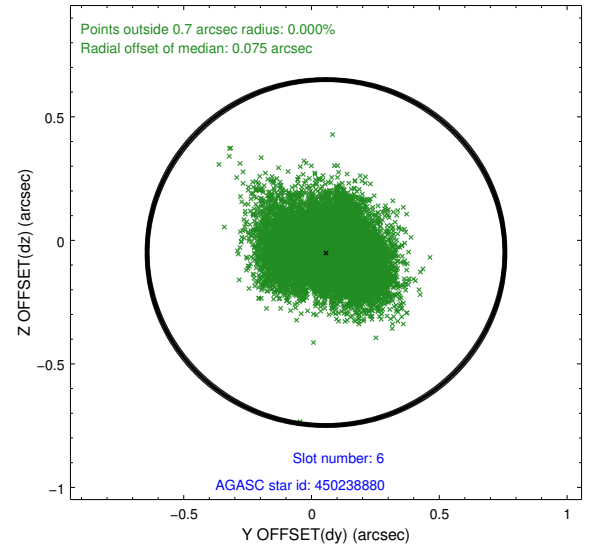
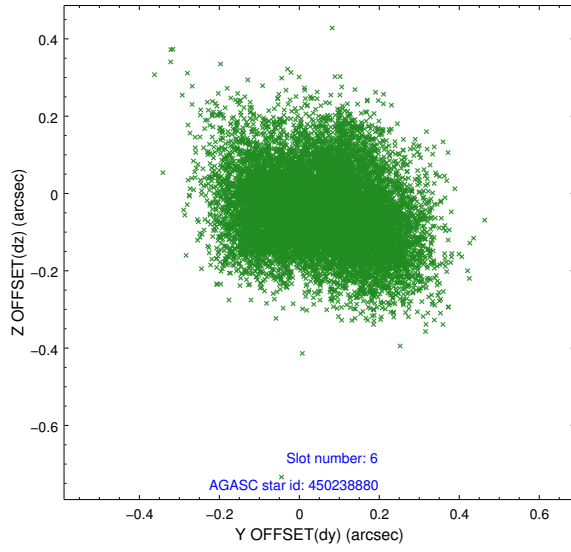
2.4.2 Slot 4



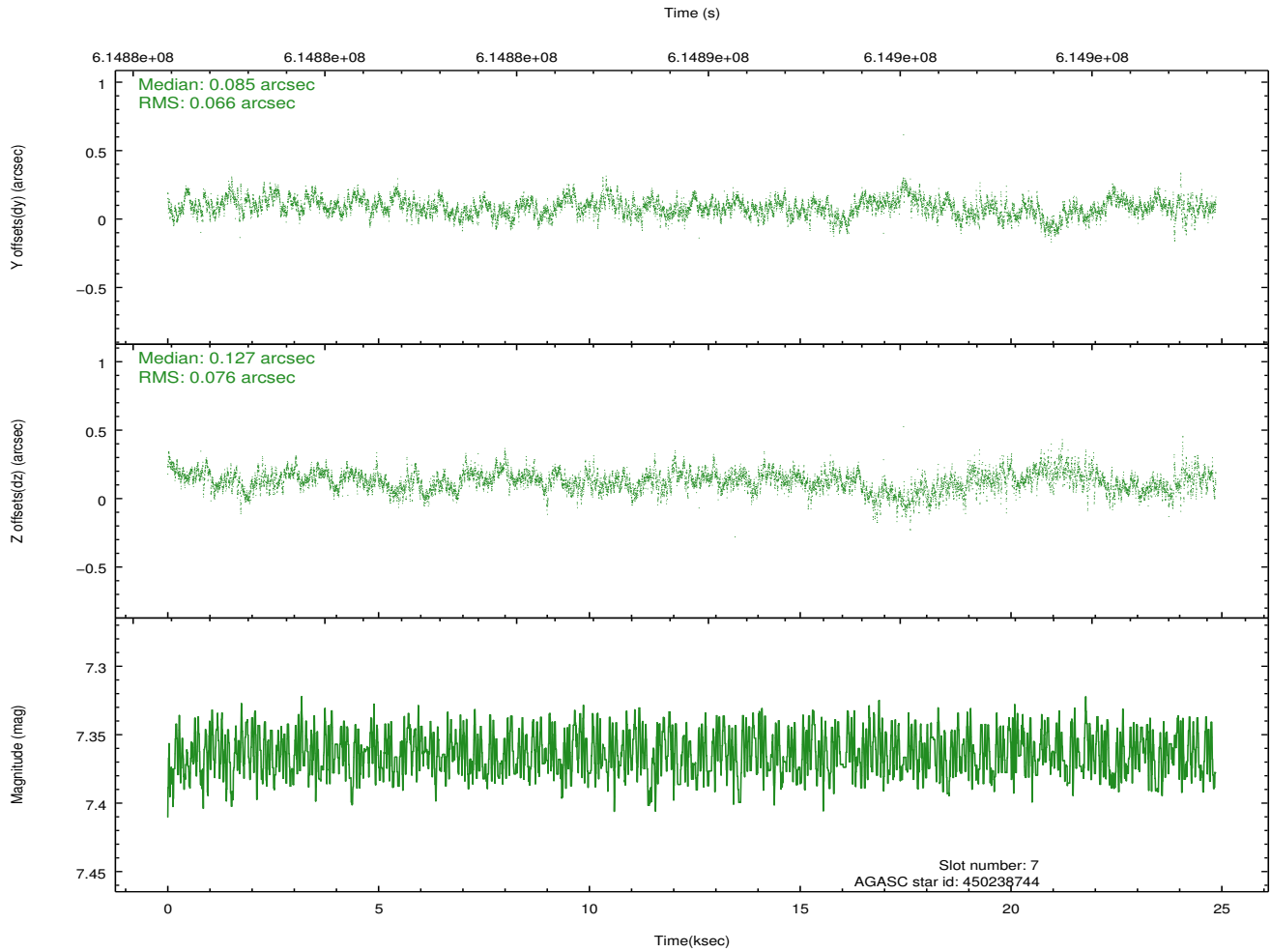
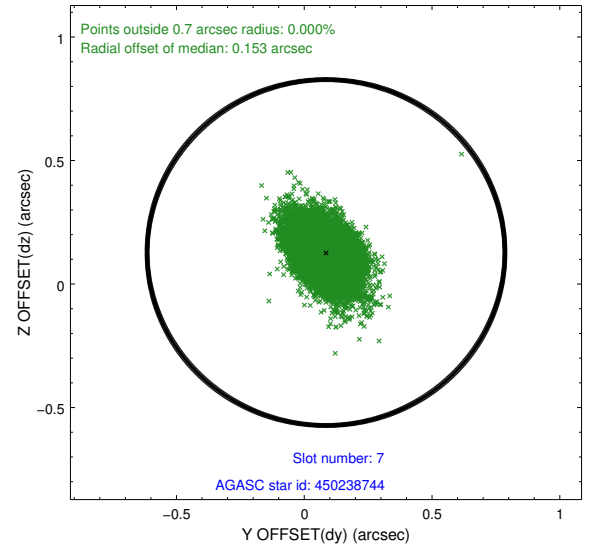
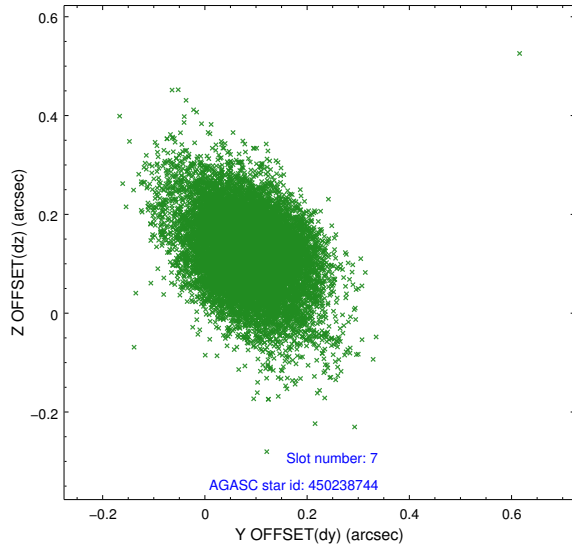
2.4.3 Slot 5



2.4.4 Slot 6

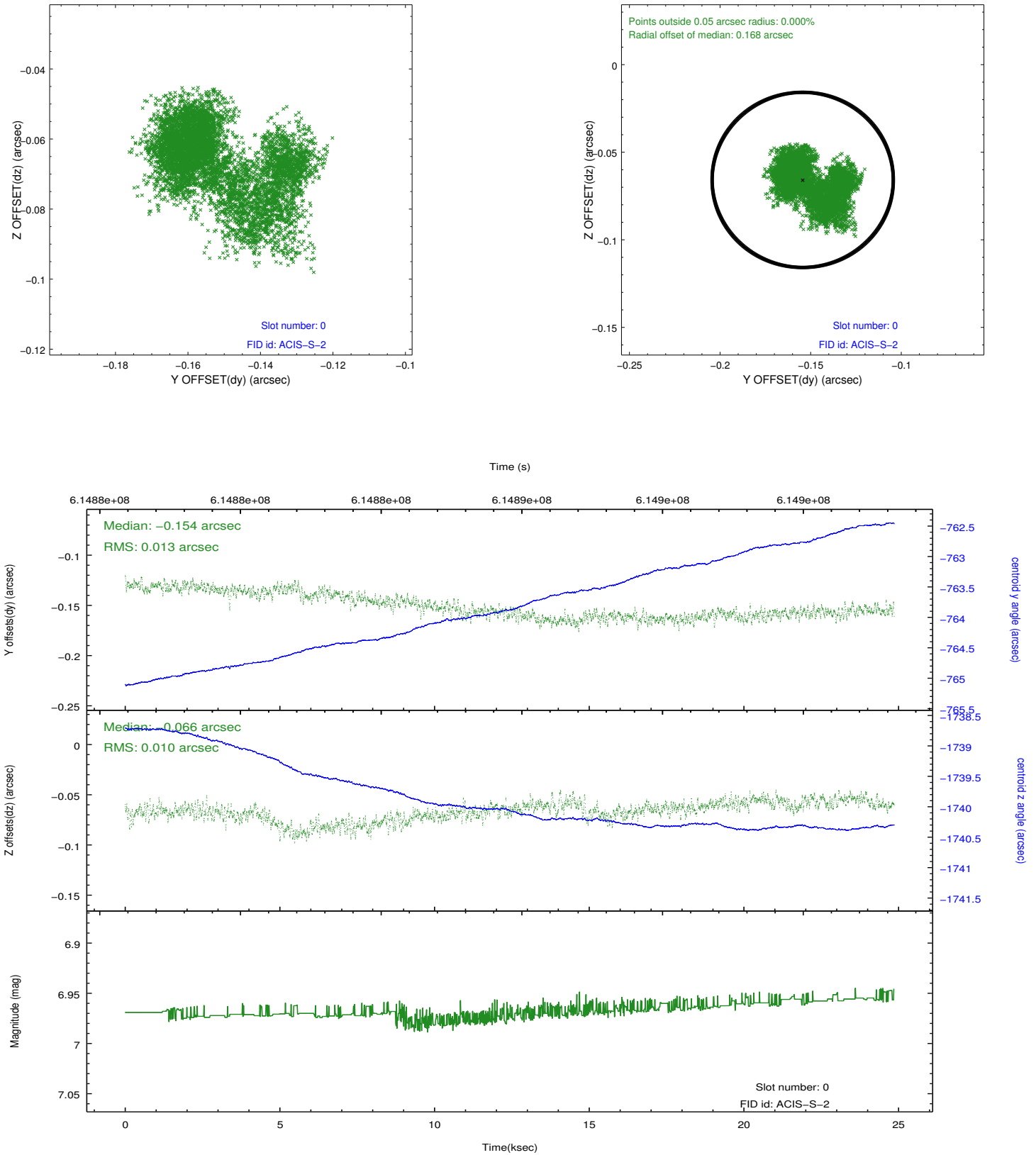


2.4.5 Slot 7

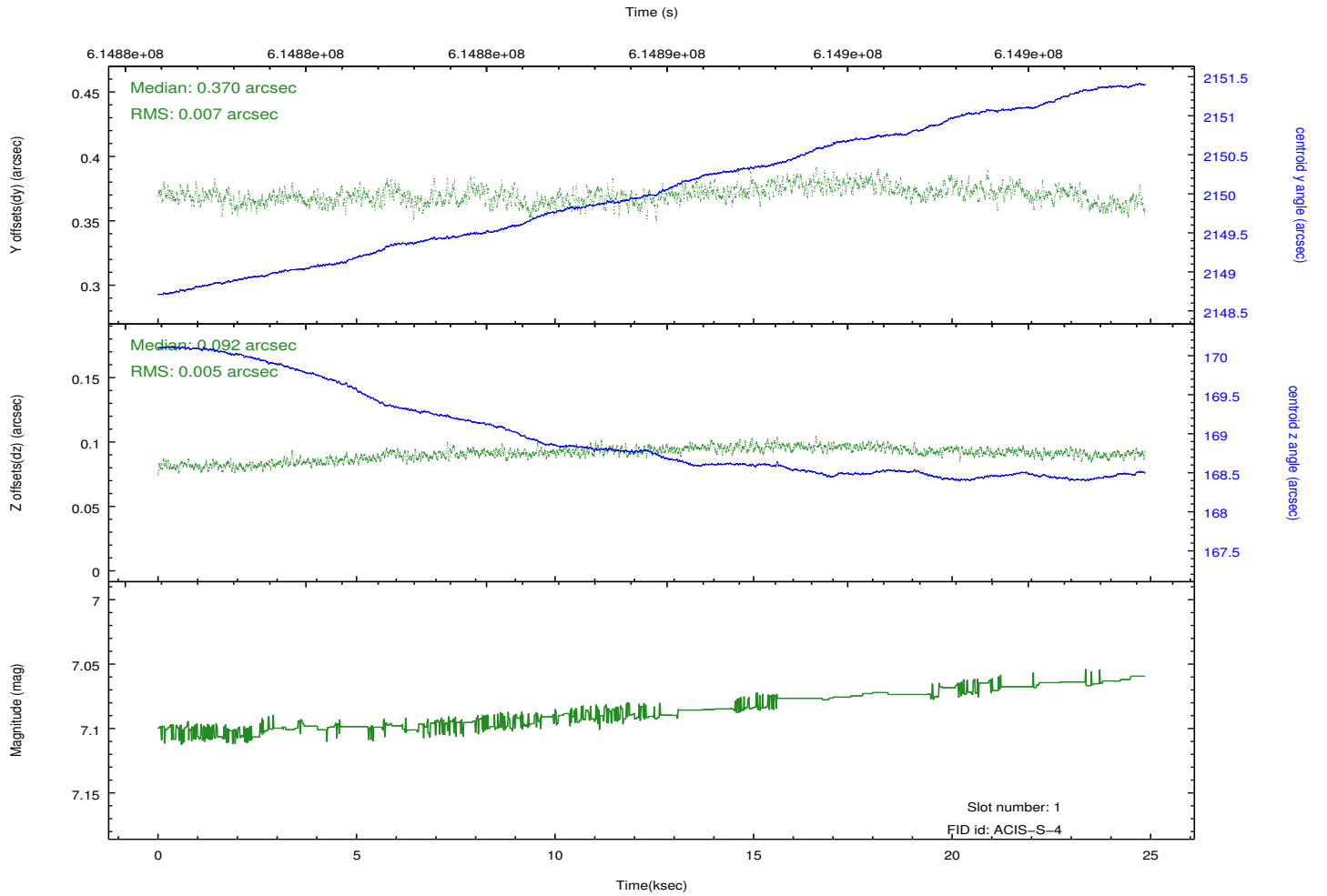
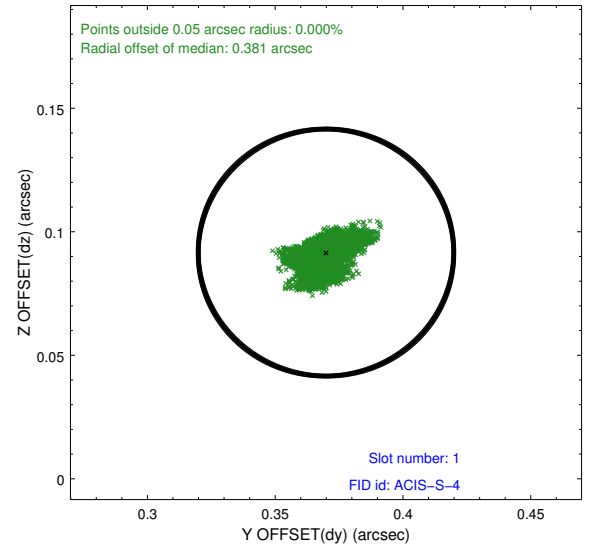
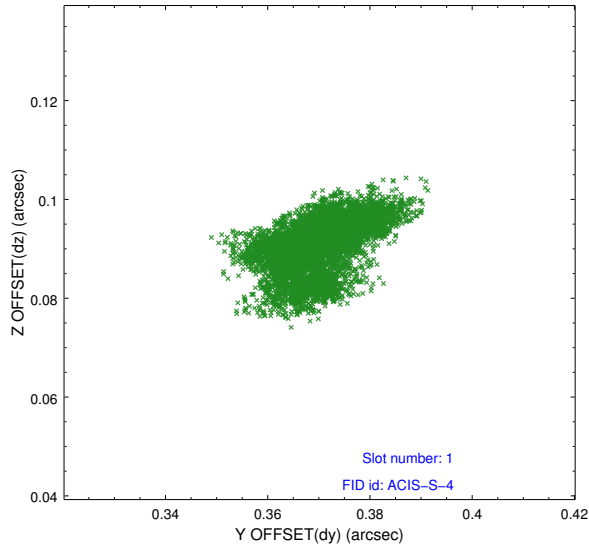


2.5 FID Slots

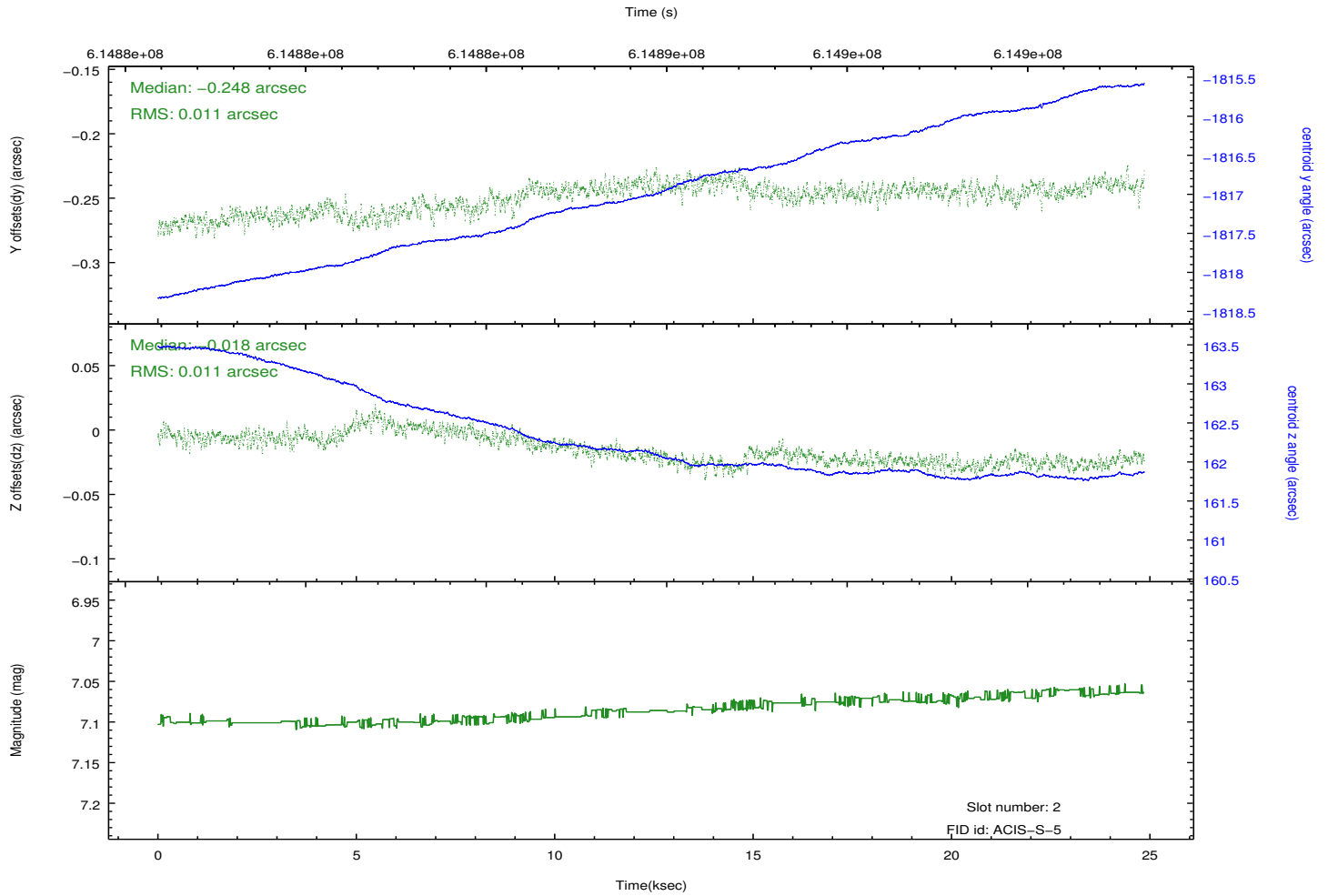
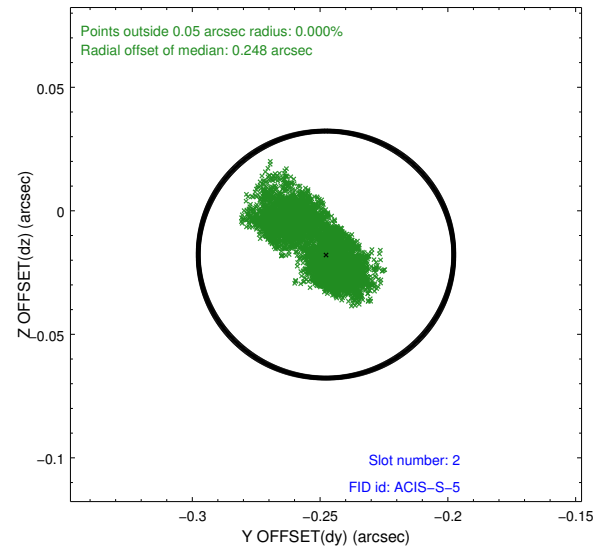
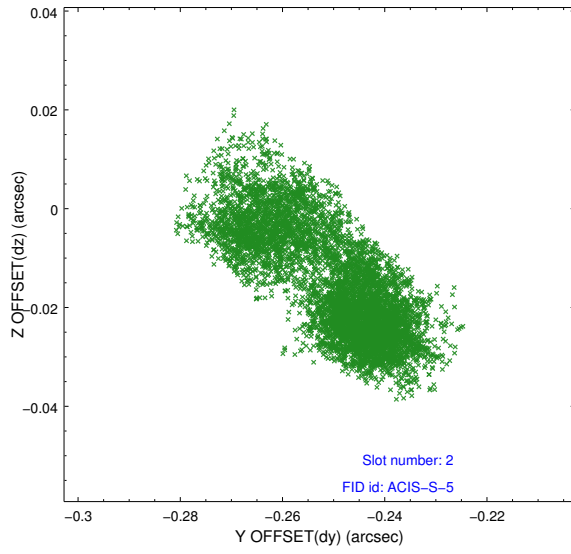
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.052900185108

A.2 Comments