

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5741 - L2 Version 3  
Chandra X-Ray Center

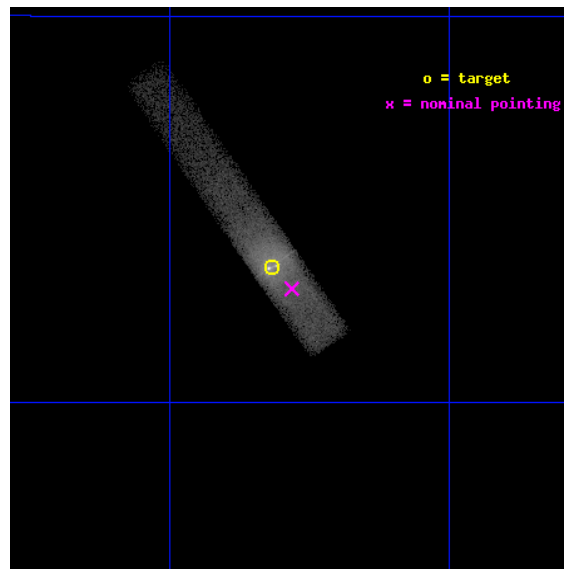
L2 Processing Date : Dec 24 2012

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# 1 Front

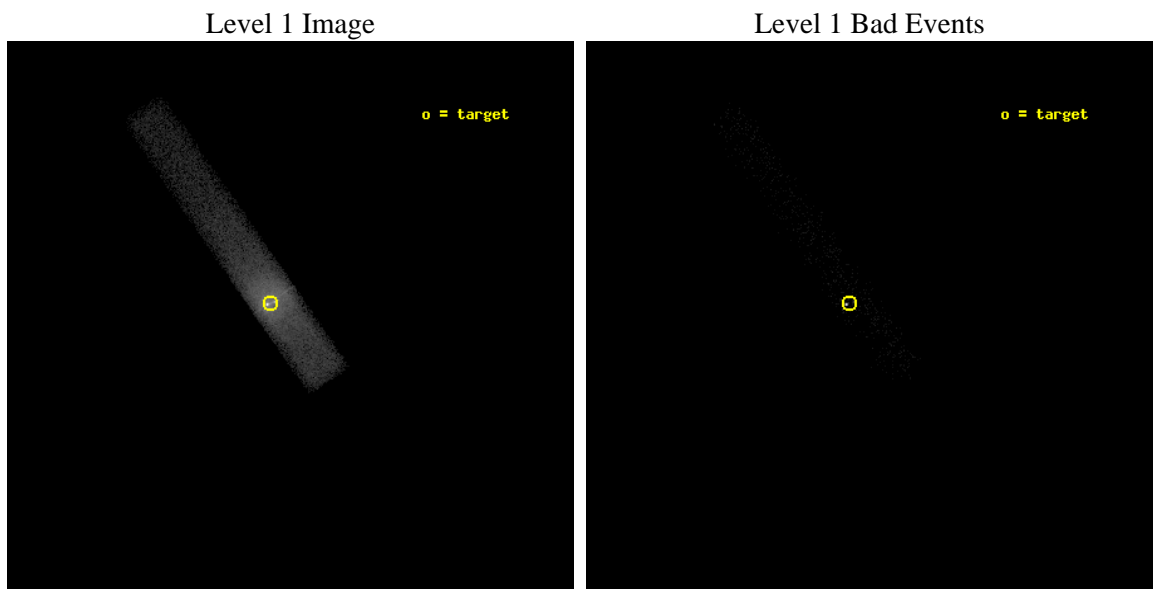
seq_num	701163	Sequence number
obs_id	5741	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.6955046615	Nominal RA [deg]
dec_nom	12.382425648295	Nominal Dec [deg]
roll_nom	235.15848549466	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5179.6000771523	Sum of GTIs [s]
livetime	4697.623868268	Livetime [s]
ontime7	5179.6000771523	Sum of GTIs [s]
l2events	59033	Number of level 2 events



## 2 OBI

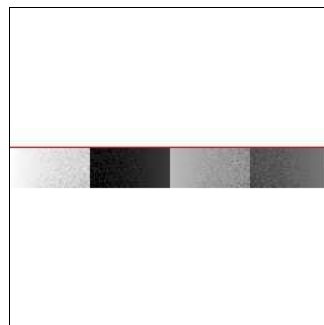
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4993.381000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	5179.6000771523	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime7	5179.6000771523	Sum of GTIs [s]
date	2012-12-24T11:40:24	Date and time of file creation	l1events	74246	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	74246
rejected events	14683
rejected %	19%

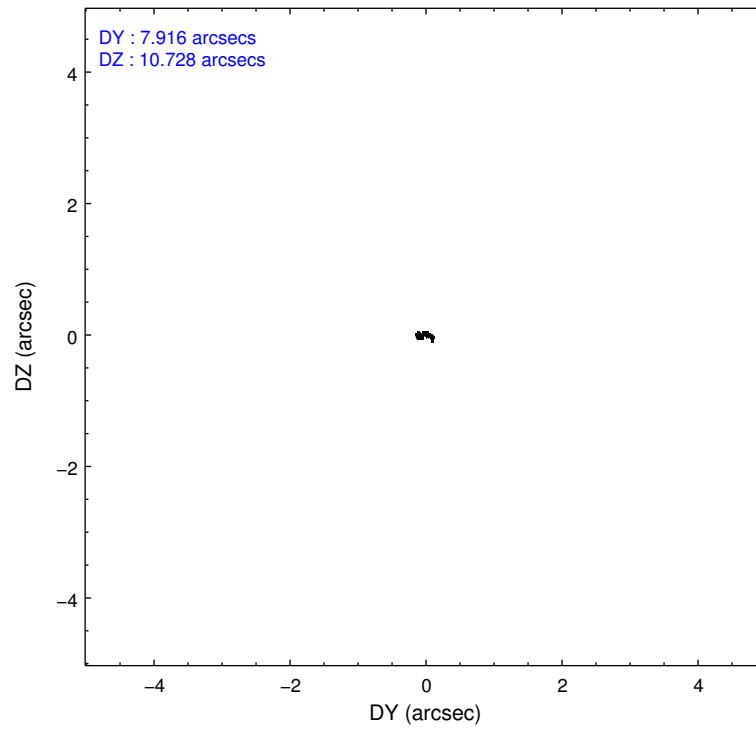
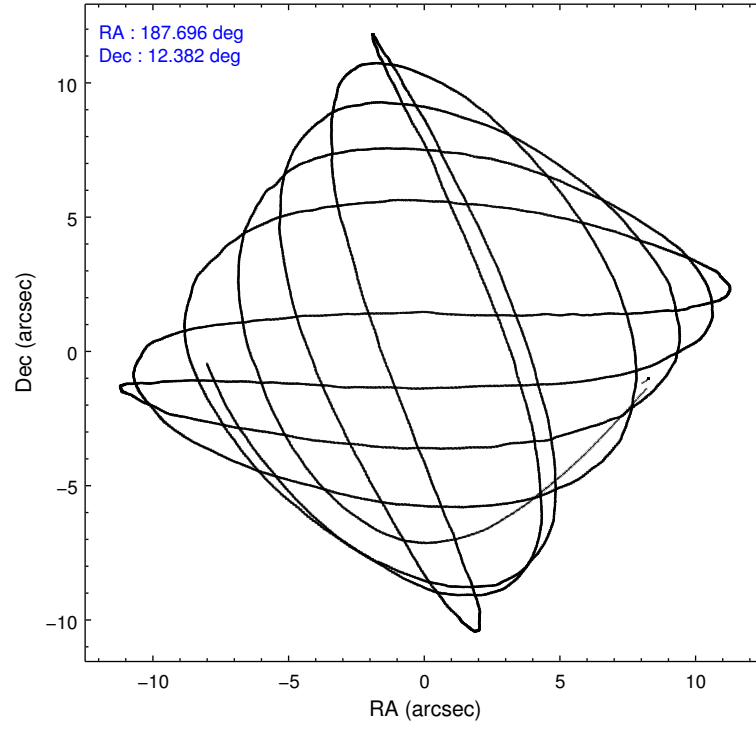
	<b>ccd 7</b>
grade 0 events	18224
	24%
grade 1 events	484
	0%
grade 2 events	15094
	20%
grade 3 events	6918
	9%
grade 4 events	6803
	9%
grade 5 events	2890
	3%
grade 6 events	14161
	19%
grade 7 events	9672
	13%

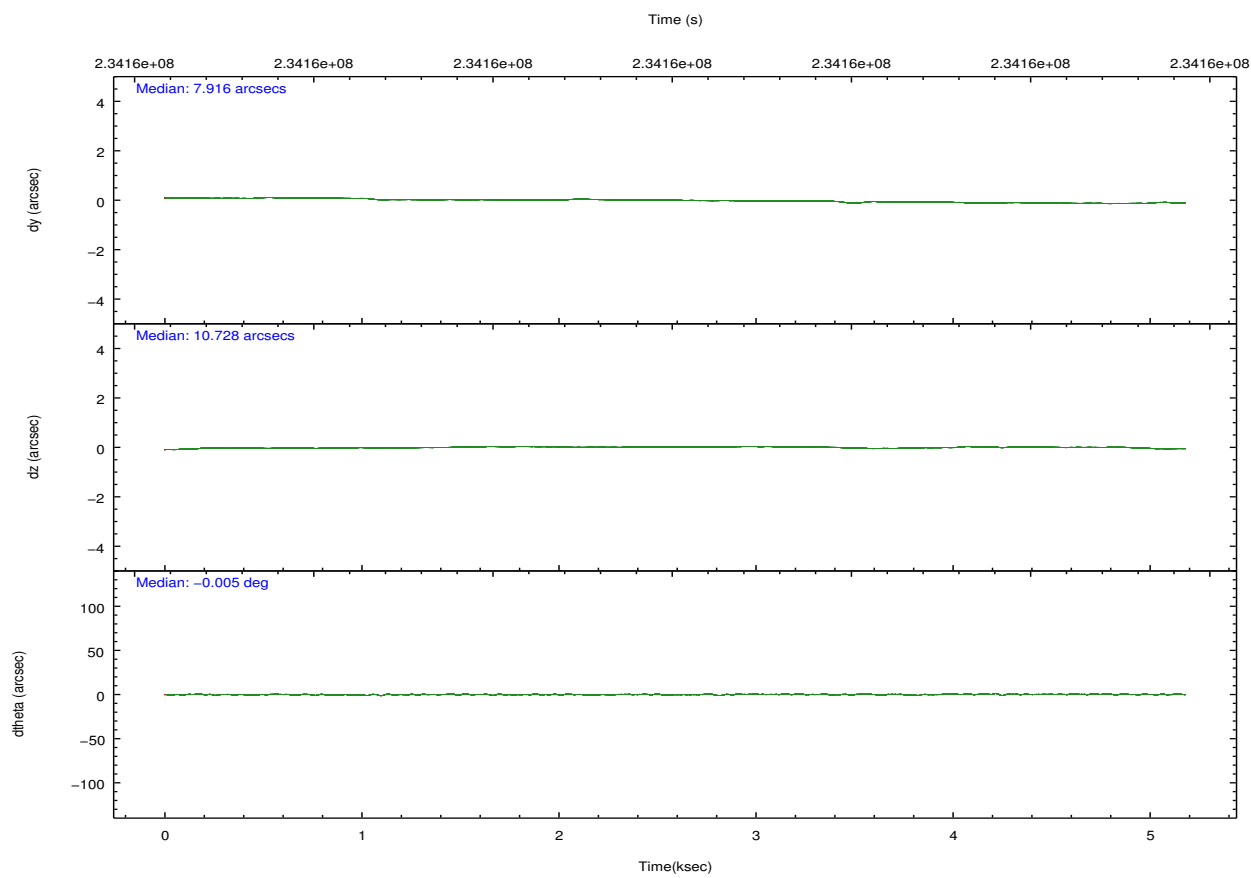
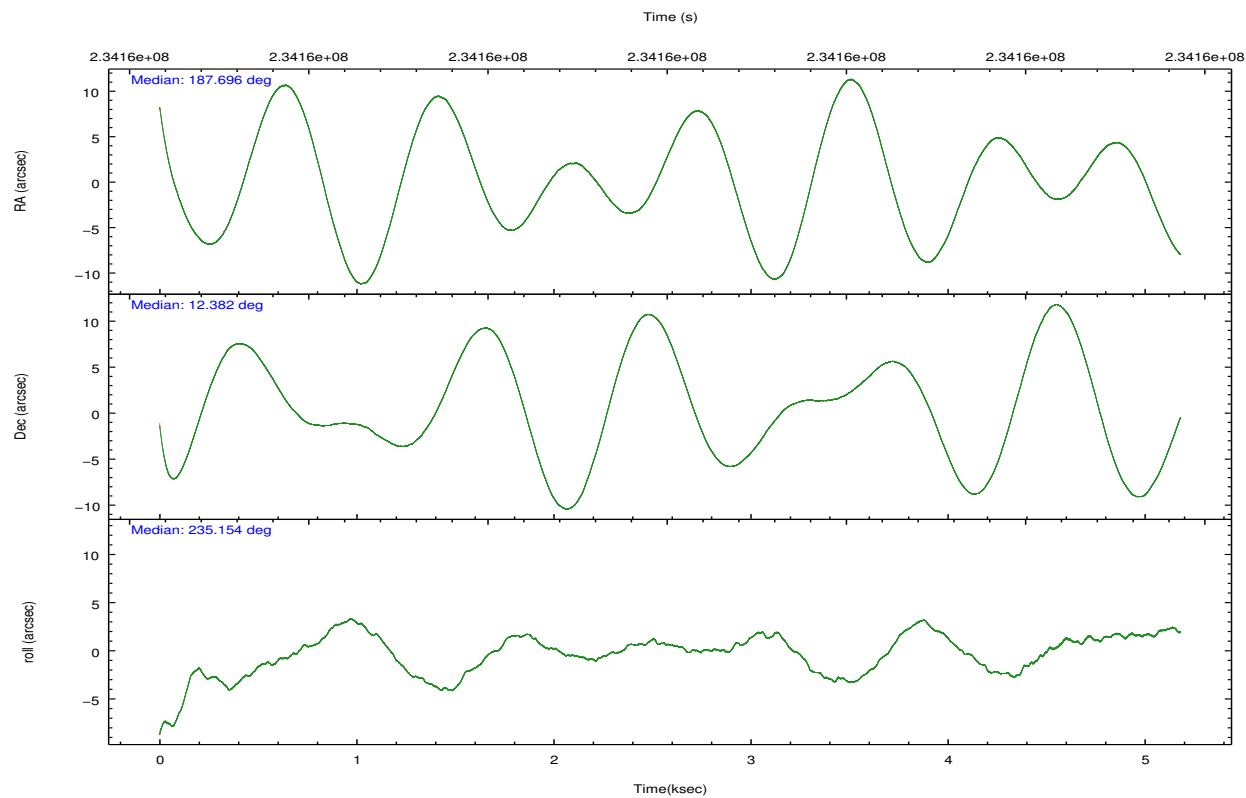


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	187.697485	187.6955046614983	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.409659	12.38242564829478	Subarray start row	449	449
[deg] Pointing Roll	235.001432	235.1584854946628	Subarray row count	128	128
[s] Window start time (MET)	233798464.184000	233798464.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	234403264.184000	234403264.184000	[s] Primary exposure time	0.000000	0.4
[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)	234157610.184000	234156703.02459			
Observation start date	2005-06-03T03:45:46	2005-06-03T03:31:43			
[s] Observation end time (MET)	234162604.184000	234162821.76236			
Observation end date	2005-06-03T05:09:00	2005-06-03T05:13:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect



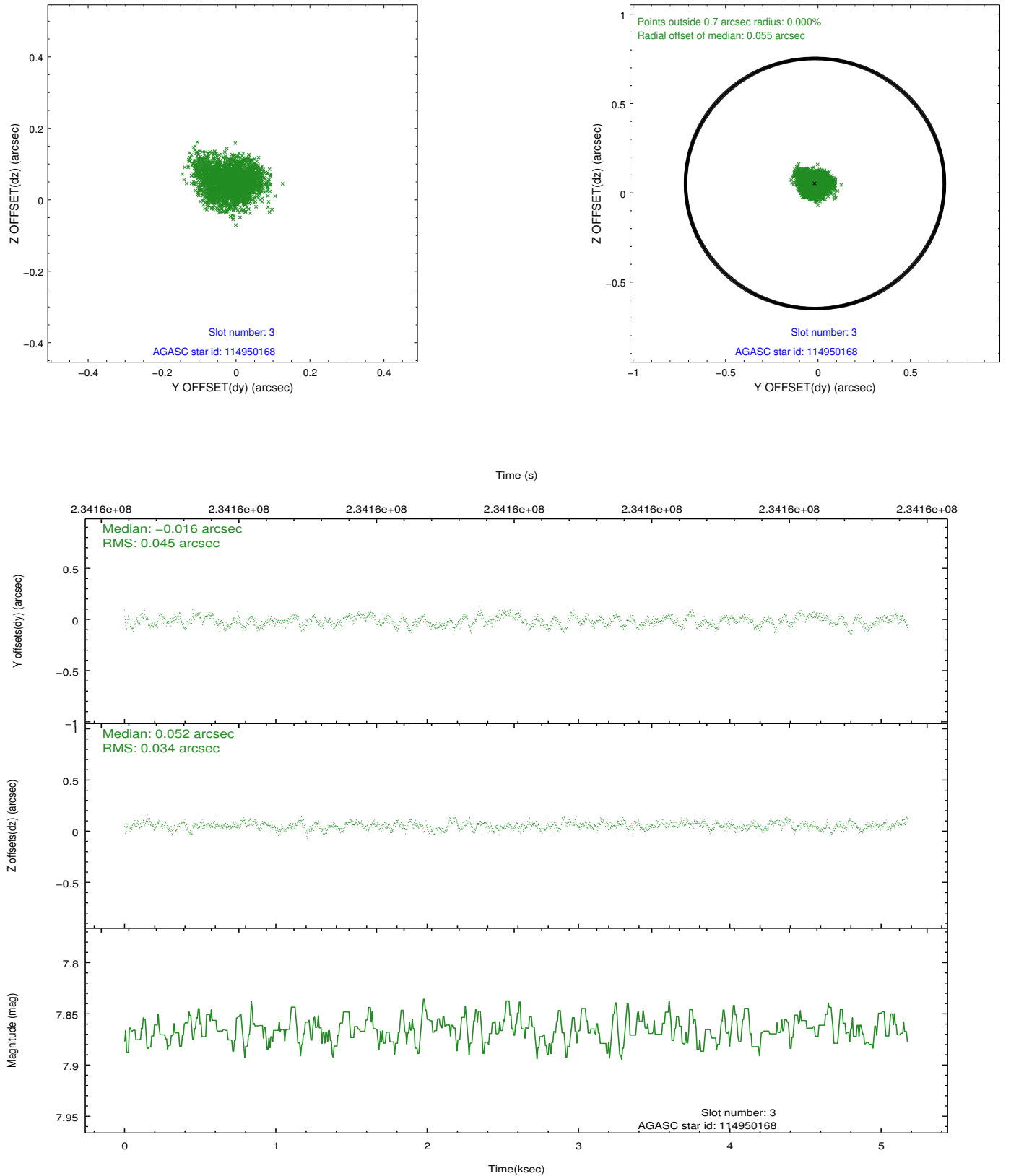


### Slot Statistics

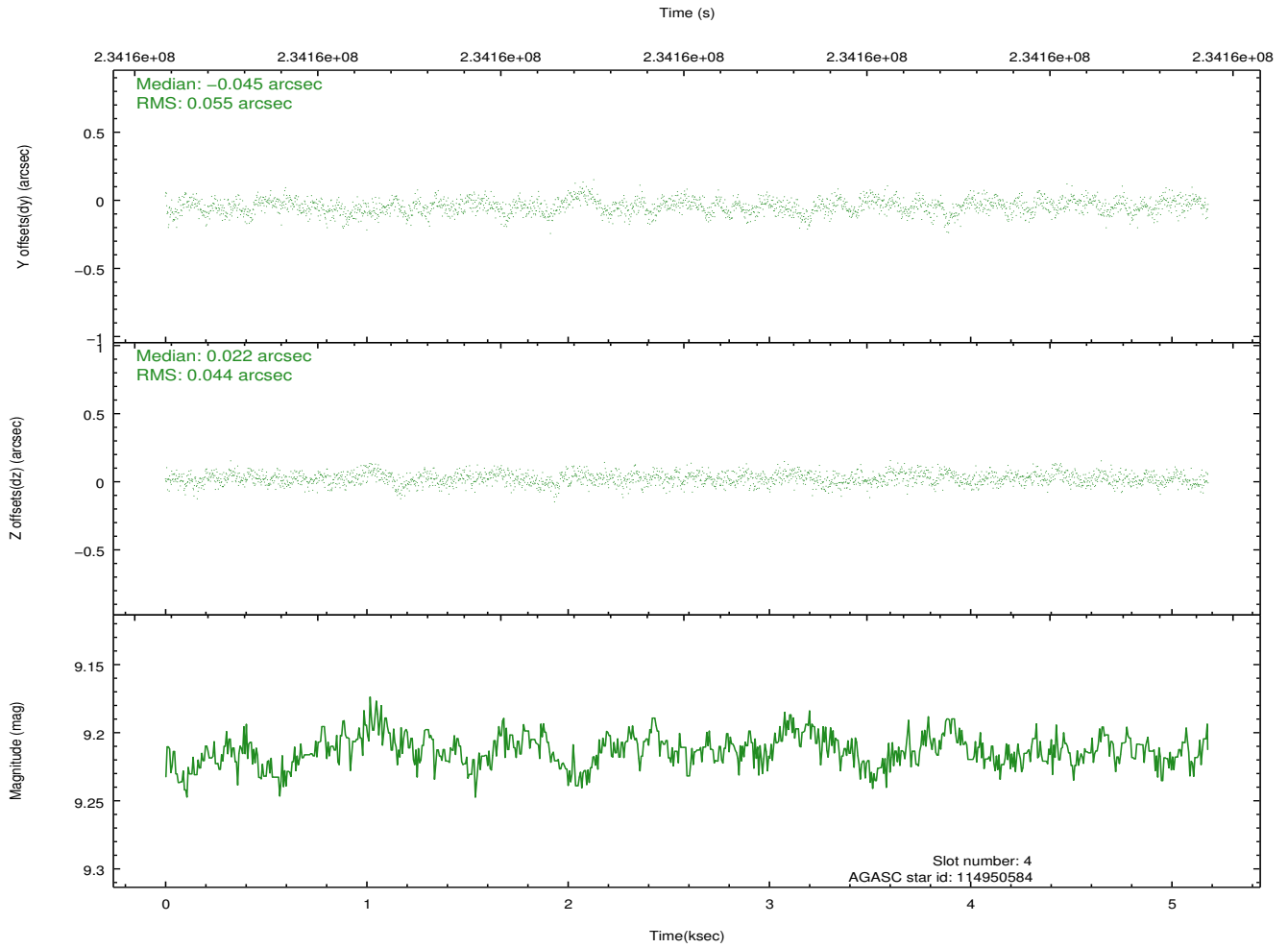
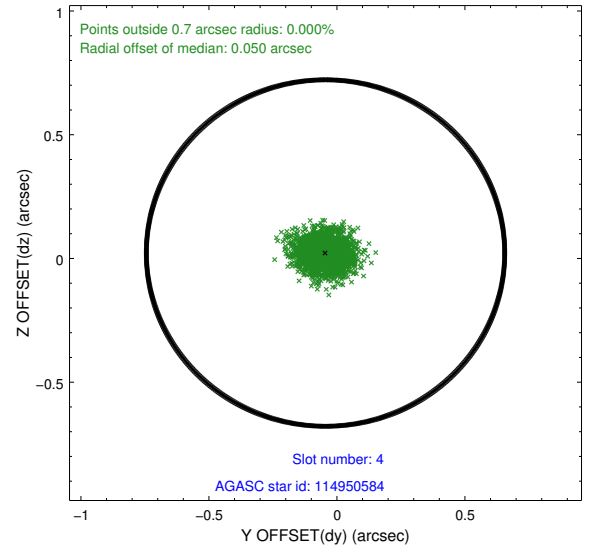
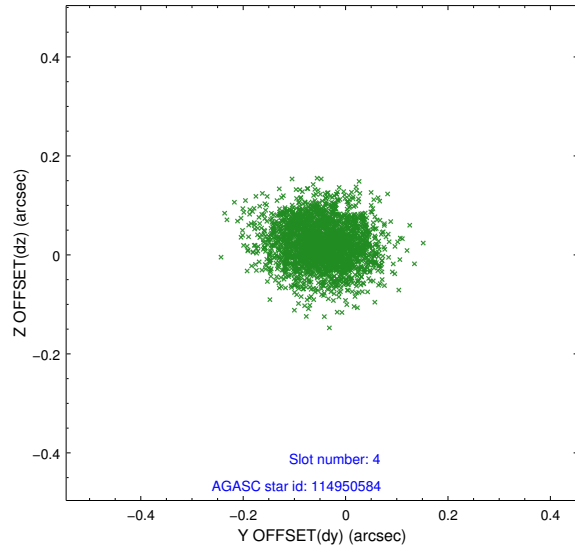
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1264	-0.042	-0.016	0.007	0.011	0.000000	0.000000	-760.68	-1732.02
1	FID	ACIS-S-4	7.20	1264	0.111	0.024	0.006	0.011	0.000000	0.000000	2152.18	175.35
2	FID	ACIS-S-5	7.23	1264	-0.101	0.000	0.008	0.013	0.000000	0.000000	-1812.12	170.25
3	GUIDE	114950168	7.87	2528	-0.016	0.052	0.061	0.096	187.143398	12.117441	1979.07	-995.20
4	GUIDE	114950584	9.21	2527	-0.045	0.022	0.075	0.122	187.487323	11.827248	2143.09	595.40
5	GUIDE	114952824	8.57	2524	-0.047	0.114	0.065	0.105	187.703904	12.486727	-239.02	-140.54
6	GUIDE	114954440	9.21	2528	0.076	-0.097	0.088	0.149	186.915066	12.219118	2137.79	-1863.60
7	GUIDE	114955056	8.31	2525	0.028	-0.088	0.060	0.098	187.914001	12.127854	394.75	1205.02

## 2.4 Star Slots

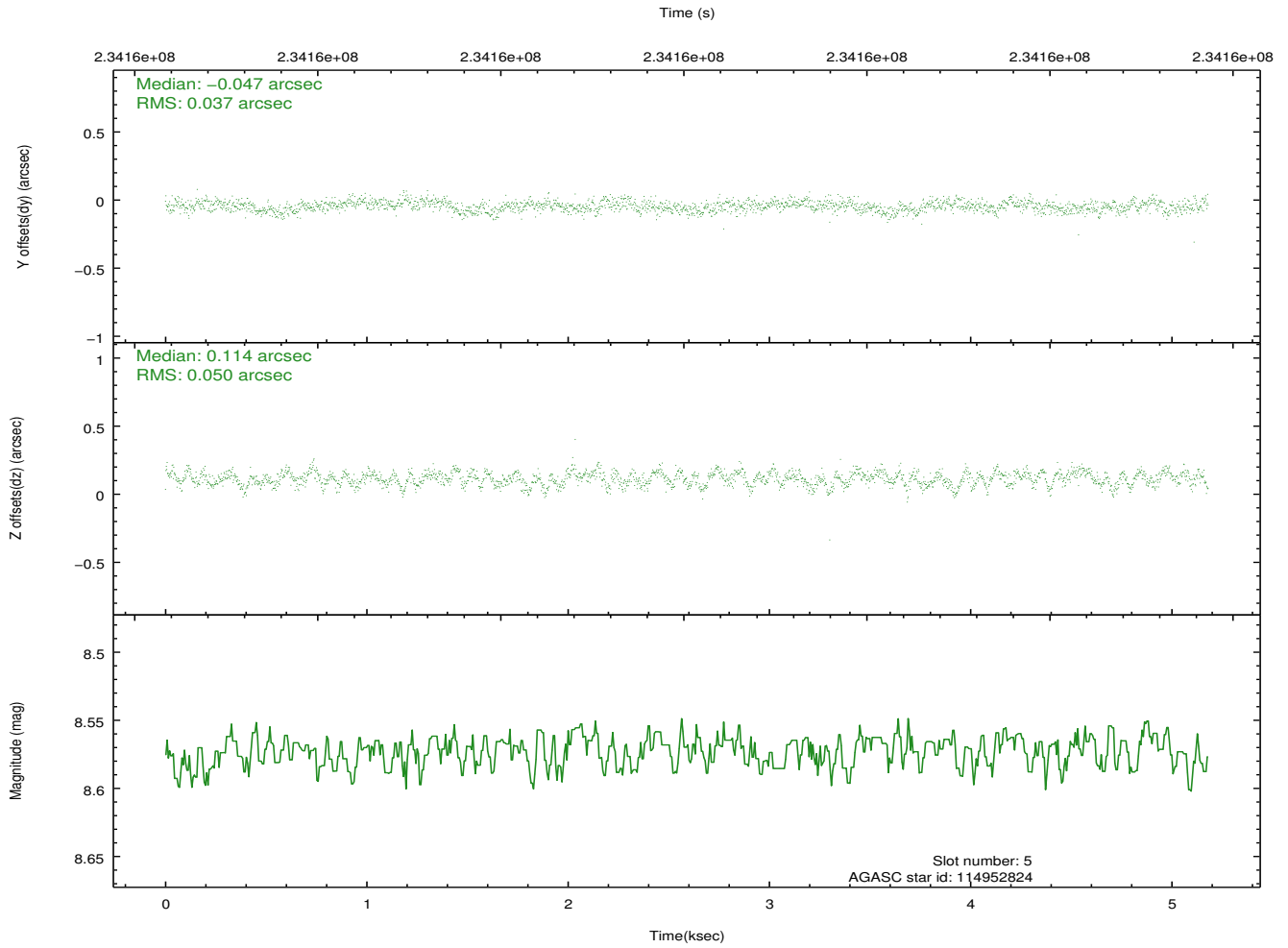
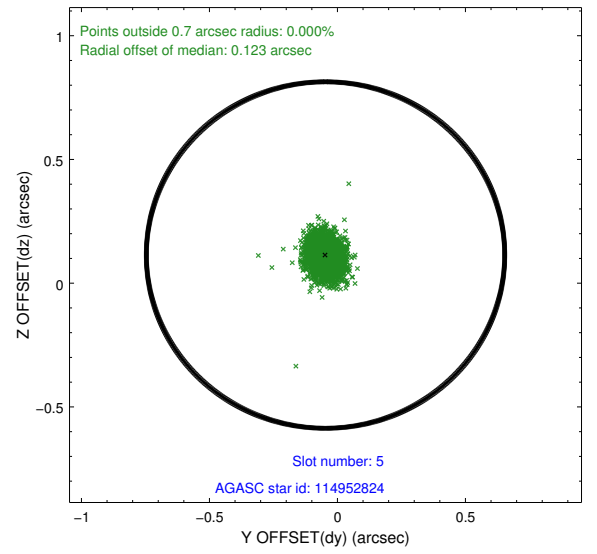
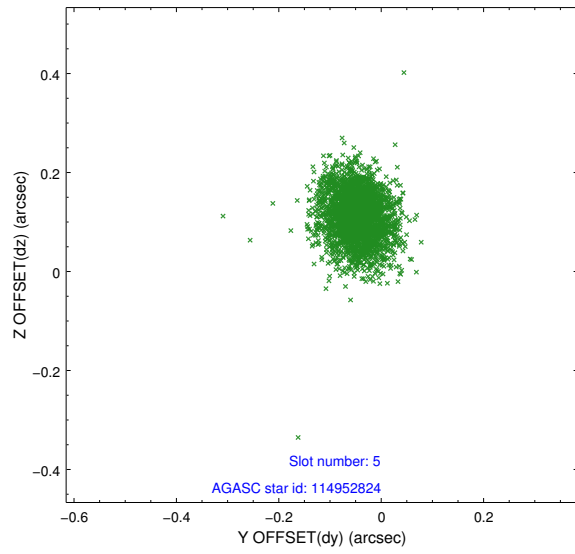
### 2.4.1 Slot 3



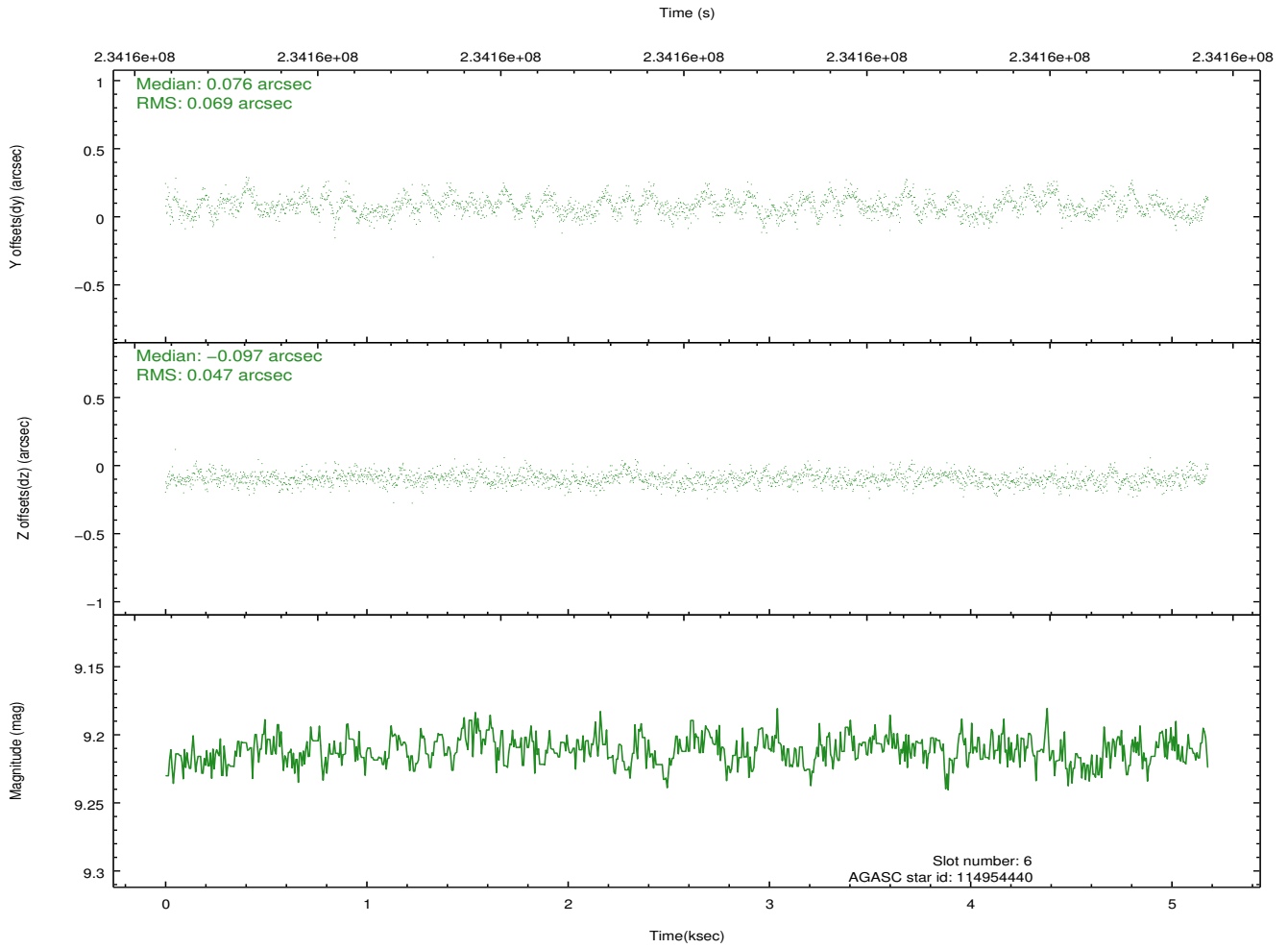
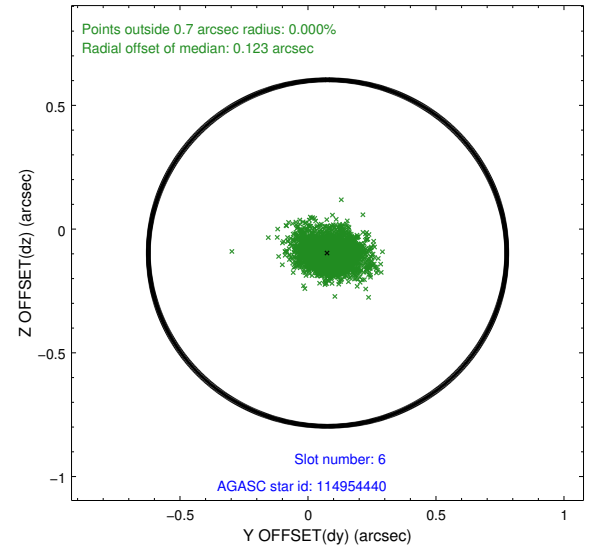
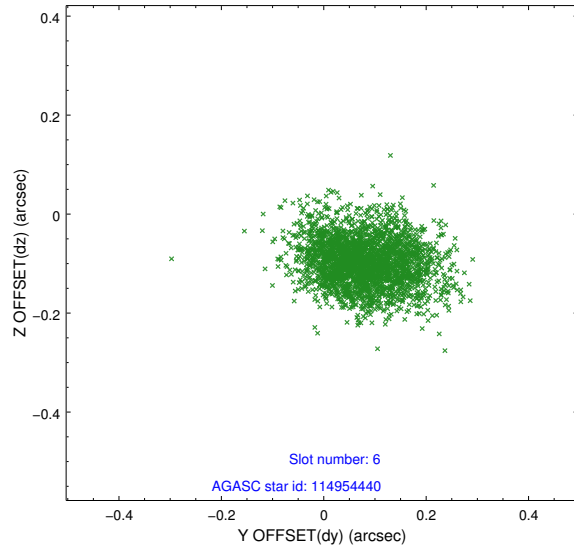
## 2.4.2 Slot 4



### 2.4.3 Slot 5

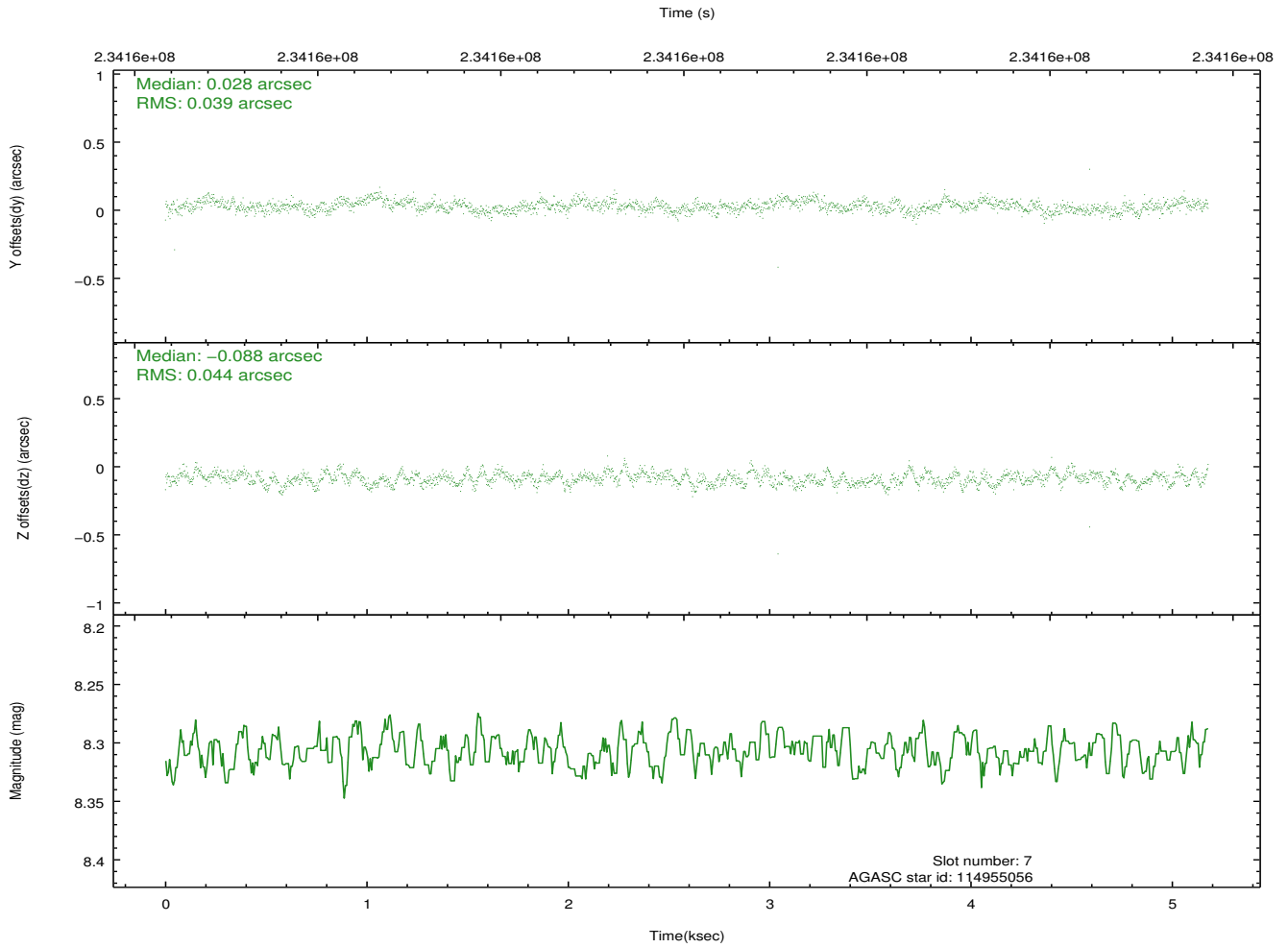
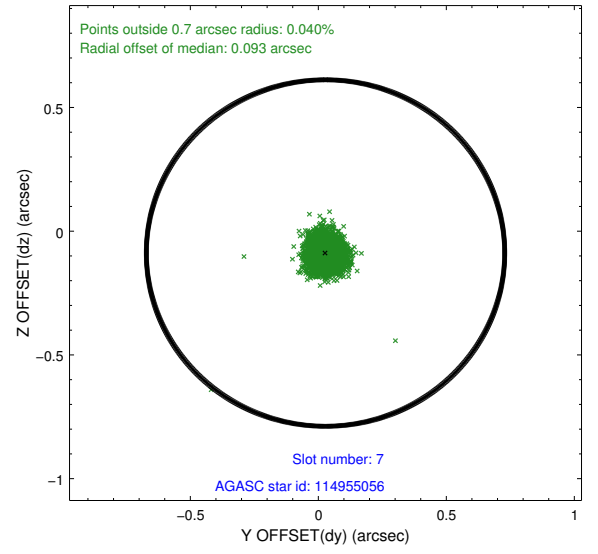
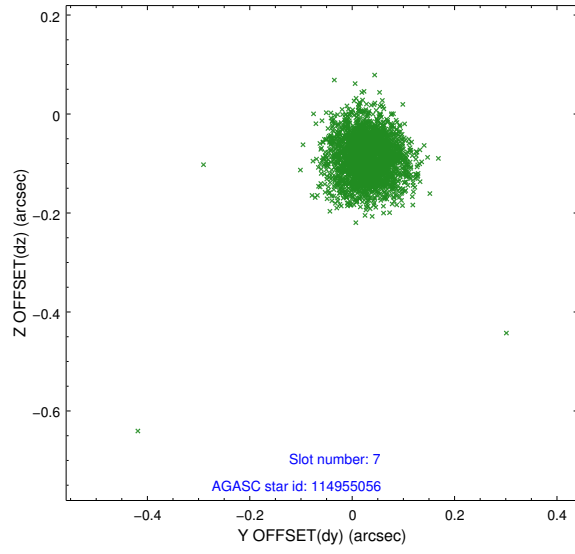


## 2.4.4 Slot 6



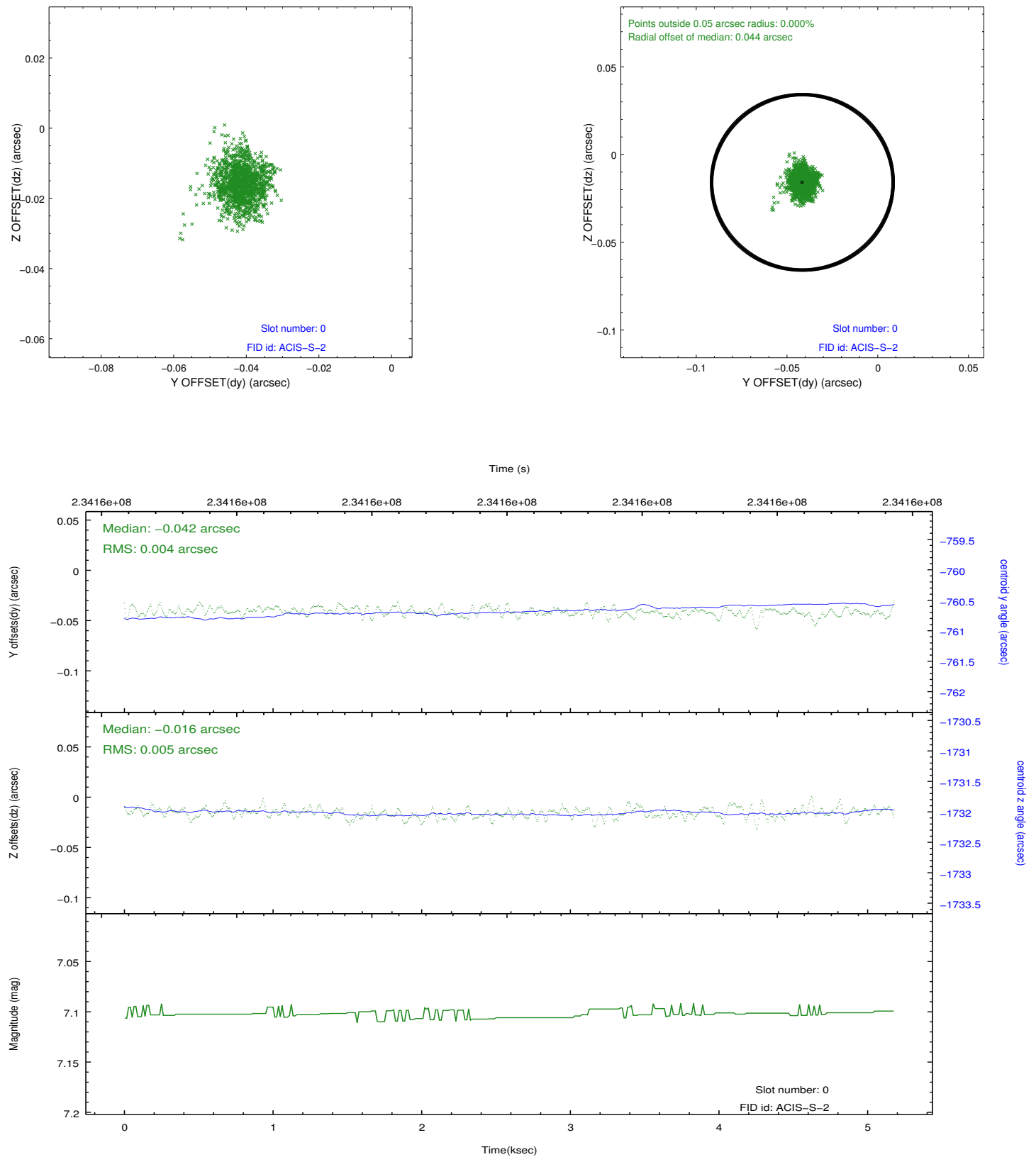


## 2.4.5 Slot 7

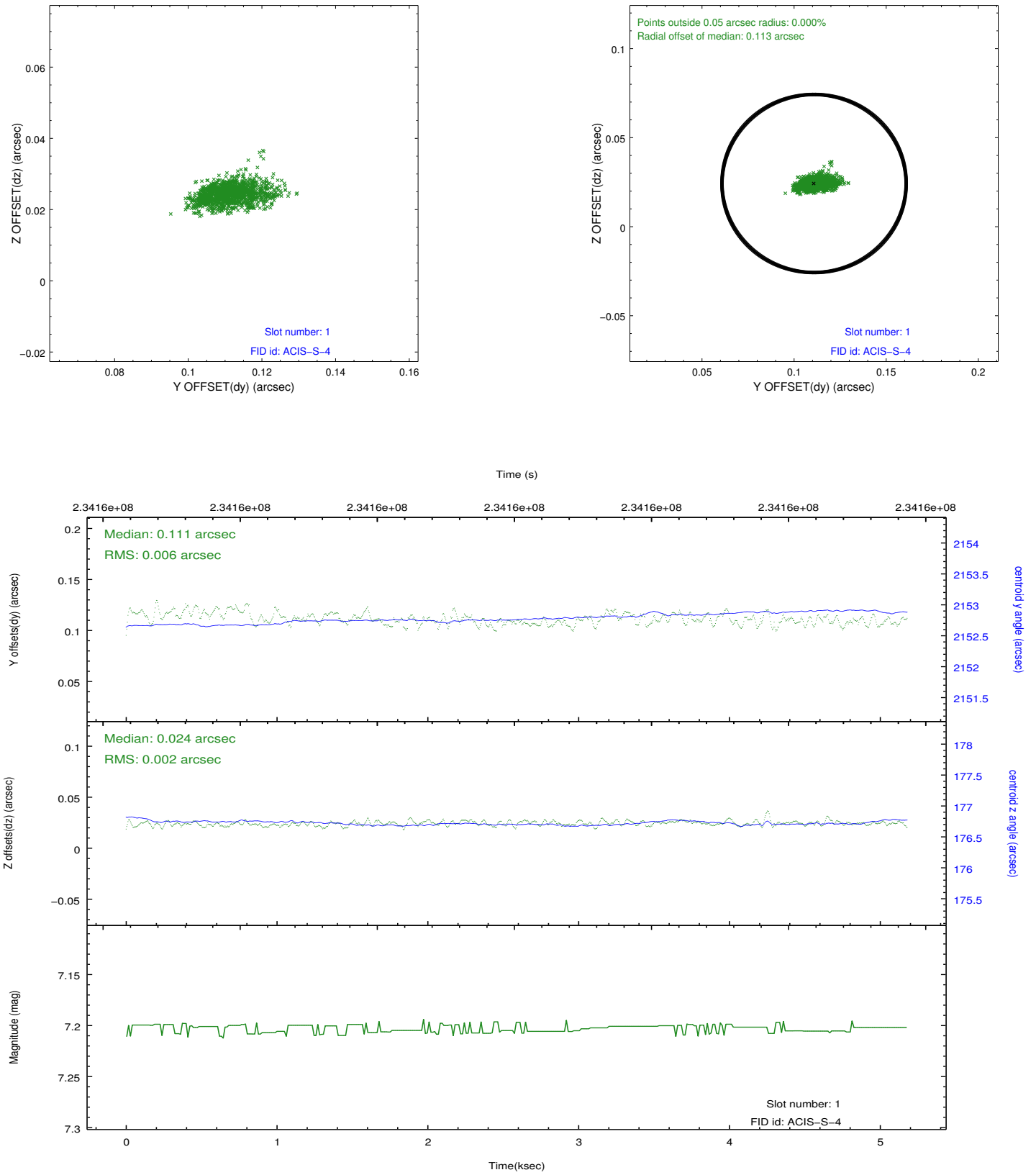


## 2.5 FID Slots

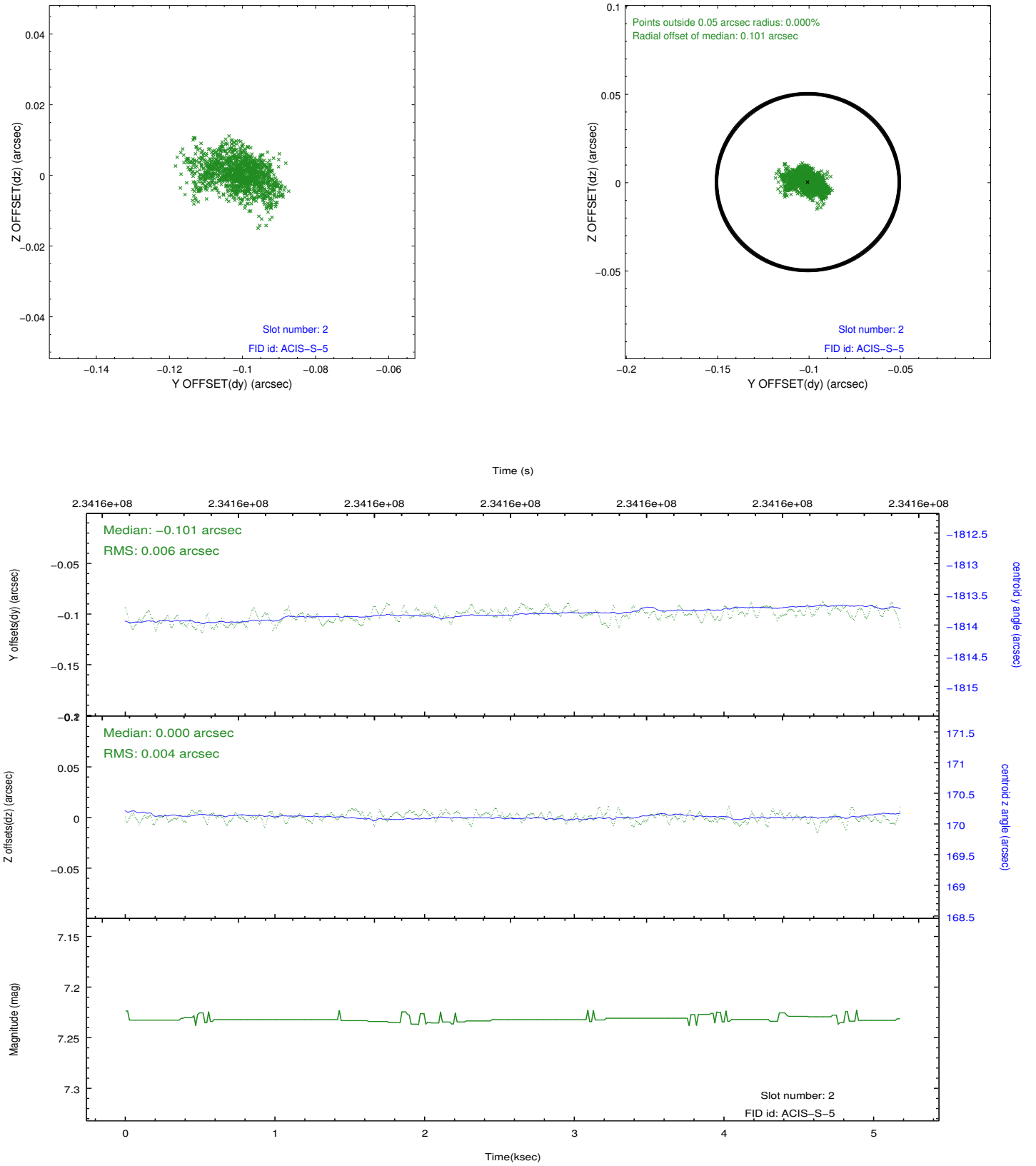
### 2.5.1 Slot 0



## 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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1796

### A.2 Comments

Window constraint satisfied. Joint Proposal: CX0-HST