

APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP = 0469
OSHPD Special Seismic Certification Preapproval (OSP)	
Type: New Renewal	
Manufacturer Information	
Manufacturer: Philips Healthcare	
Manufacturer's Technical Representative: <u>Ren Peter</u>	
Mailing Address: _ 258 Zhong Yuan Road; Suzhou Industrial Park; Jiar	ngsu Province, P.R.C 215024
Telephone: +86 21 2412 8165	Ren@philips.com
Product Information	Mp,
Product Name: Brilliance Big Bore CT Base System, Brilliance Bi	ig Bore CT for Oncology & Philips CT Big Bore
Product Type: Computed Tomography (CT) medical imaging system	n. R
Product Model Number: <u>See Attachment 1.</u> (List all unique product identification numbers and/or part numbers) OT V J Pile General Description: <u>Multiple component systems for the provision</u> imaging. Seismic certification is limited to system components listed diagnostic assessment of trauma injuries. Seismic enhancements in required to address anomalies observed during the tests shall be inc	of Computed Tomography medical diagnostic in Attachment 1 for CT functions related to corporated into the test units and enhancements
Mounting Description: See Attachment 1	
Applicant Information	COL
Applicant Company Name: <b>EASE LLC</b>	
Contact Person: JONATHAN ROBERSON, S.E.	
Mailing Address: _ 5877 Pine Ave. Suite 210, Chino Hills, CA 91709	
Telephone: (406) 541-EASE (3273) Email: j.rober	<u>son@easeco.com</u>
I hereby agree to reimburse the Office of Statewide Health accordance with the California Administrative Code, 2016.	Planning and Development review fees in Date: May 27, 2019
$\sigma$	
Title:       Principal Engineer       Company Name:       EASE         "Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"       STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY	OSHPC
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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)

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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name:EASE LLC
Name: Jonathan Roberson, S.E. California License Number: S4197
Mailing Address: _ 5877 Pine Ave. Suite 210, Chino Hills, CA 91709
Telephone: _(909) 606-7622 Email: _j.roberson@easeco.com
Supports and Attachments Preapproval
<ul> <li>Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)</li> <li>Supports and attachments are not preapproved</li> </ul>
Certification Method
<ul> <li>☑ Testing in accordance with:</li> <li>☑ Other (Please Specify):</li> <li>☑ OSP-0469</li> </ul>
BY:Timothy J Piland
Testing Laboratory DATE: 10/19/2020
Company Name: Environmental Testing Laboratory, Inc.
Contact Name: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513
Telephone: (972) 247-9657 Email: brady@etIdallas.com

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seism	ic P	aram	eters
0010111		aran	

Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No
Design Basis of Equipment or Components (Fp/Wp) = <u>See Attachment 1</u>
S <sub>DS</sub> (Design spectral response acceleration at short period, g) = <u>S<sub>DS</sub> = 2.00 (z/h = 1); S<sub>DS</sub> = 2.50 (z/h = 0)</u>
a <sub>p</sub> (In-structure equipment or component amplification factor) = <u>See Attachment 1</u>
R <sub>p</sub> (Equipment or component response modification factor) = <u>See Attachment 1</u>
$\Omega_0$ (System overstrength factor) = See Attachment 1
I <sub>p</sub> (Importance factor) = <b>1.5</b>
z/h (Height factor ratio) =z/h = 1 (S <sub>DS</sub> = 2.00); z/h = 0 (S <sub>DS</sub> = 2.50)
Equipment or Component Natural Frequencies (Hz) = <u>See Attachment 2</u>
Overall dimensions and weight (or range thereof) = See Attachment 1
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes X No
Design Basis of Equipment or Components (V/W) =
S <sub>DS</sub> (Design spectral response acceleration at short period, g) =
$S_{D1}$ (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
$\Omega_0$ (System overstrength factor) = $\Omega_0$ (System overstrength factor) = $\Omega_0$
C₄ (Deflection amplification factor) =
$I_{P}$ (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: 🗌 Yes 🖾 No
List of Attachments Supporting Special Seismic Certification
Test Report(s) Drawings Calculations Manufacturer's Catalog
C Other(s) (Please Specify). <u>Attachments 1 &amp; 2</u>
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: 1/1/1/2 Date: October 19, 2020
Print Name: Timothy / Piland
Special Seismic Certification Valid Up to: $S_{ps}(q) = See Above z/h = See Above$
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15) Page 3 of 3



#### **ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

**PHILIPS HEALTHCARE** 

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#### TABLE 1:

SYSTEM MFR. Philips Medical	Systems Nederlan	d B.V.											
SYSTEM Brilliance Big Bo Brilliance Big Bo	ore CT Base Syste	m Jy	(4598016	601901) <sup>[6]</sup>									
/	PART	APPROX. DIMENSIONS (IN		ONS (IN.)	MAX. WT.							Т	
COMPONENT	NUMBER	W	D	Н	(LB.)	MOUNT	BASIS <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	SDS	z/h	ap	RP	Ω0
GANTRIES				2 D C	ODC								
GANTRY, Brilliance Big Bore	<sup>3]</sup> 459800746192			FORC				0.40					
LH Actuator, Seismic	459800121282	99	39	78.7	4503	Rigid	UUT1602-1	2.40	2.0	1	1	1 ½	1 ½
RH Actuator, Seismic	459800121292		N.			Dase		1.15	2.0	0			
PATIENT TABLES			N	UDI	TPU	Y	1						
Patient Support, Bariatric	<sup>3]</sup> 453567391361	22.7	107.4	25.4 min	-0490 [2]	Rigid Base	UUT1602-2	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
CONSOLES			·/////										
LCC CRC RACK DVI (Granite) including:	3] 455012005711		BY:	Timoth	y J Pila	nd							
Common Host Computer (CRC) (HP z440)	459800918411	24.0	35.5	29.9	307	Base	1503-A3	1.44 1.13	2.0 2.5	1 0	1	2 1⁄2	2
CIRS Computer (HP z840)	459800914091		DA	IE: IU/ I	9/2020								
LCC CRC RACK DVI (Granite) including:	455012005711 <sup>3]</sup>		CP				6/						
Common Host Computer (CRC) (HP z440)	459800918411	24.0	35.5	29.9	307	Base	INT	1.44 1.13	2.0 2.5	1 0	1	2 1⁄2	2
CIRS Computer (HP z840)	459800914241		1			-0-							
LCC CRC RACK DVI (Granite) Including:	<sub>3]</sub> 455012005711			BUI	LDING								
Common Host Computer (CRC) (HP z440)	459800918411	24.0	35.5	29.9	307	Rigid Base	INT	1.44 1.13	2.0 2.5	1 0	1	2 1⁄2	2
CIRS Computer (HP z840)	459801313471												
CRC RACK IMR (Granite) including:	<sup>3]</sup> 459800444991	04.0	05.5		010	Rigid	UUT	1.44	2.0	1		0.1/	0
CIRS Computer S1 (HP z840	) 459800912731	24.0	35.5	29.9	316	Base	1503-A1	1.13	2.5	0	1	2 1/2	2
CIRS Computer S2 (HP z840	) 459800914211												

Table continues next page



#### **ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

## **PHILIPS HEALTHCARE**

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#### TABLE 1:

SYSTEM MFR. Philips Medical S	ystems Nederland	B.V.											
SYSTEM Brilliance Big Bo Brilliance Big Bo	SYSTEM       Brilliance Big Bore CT Base System         Brilliance Big Bore CT for Oncology       (459801601901) <sup>[6]</sup>												
	PART	APPROX. DIMENSIONS (IN.)		MAX. WT.									
COMPONENT	NUMBER	W	D	Н	(LB.)	MOUNT	BASIS <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	SDS	z/h	aP	RP	Ω₀
CRC RACK (Avnet) including: <sup>[5]</sup>	459801089011			and									
Common Host Computer (CRC) (HP z440)	459800918411	24.0	35.6	29.9	318	Rigid Base	INT	1.44 1.13	2.0 2.5	1 0	1	2 1⁄2	2
CIRS Computer (HP z840)	459801313471		N										
CRC RACK (Avnet) including: [5]	459801089011			057	TPD	T A							
Common Host Computer (CRC) (HP z440)	459801304931	24.0	35.6	29.9	318	Rigid Base	UUT1713-1	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CIRS Computer (HP z840)	459801305071		· /     L	001	0405								
MISC						WMAAAAAY							
CT Box Assembly (Vexos) [4]	453567027195	15. <mark>8</mark>	4 BY:	lin3.5th	y J Pila	ПСТА	UUT1603-6	1.44	2.0	1		0.1/	0
CT Box Assembly (Grayhill) [4]	459800484611	15. <mark>8</mark> 💛	4	3.5	4	СТА	UUT1707-4	1.13	2.5	0	1	Z 1/2	2
MOUNT Floor (Rigid Base) above the base. Countertop Ancho	Mount: free-stand	ing, base-m	ounted towe	r configurations	on with the co puilt-in counte	omponent ri ertop, deskto	gidly attached	to a supp	orting str	ucture ar	nd no late	eral suppo	ort
NOTES 1. BASIS: • UUT#: u • INT (Int 2. Patient table 3. Component u 4. Component u 5. Component u 6. System form	unit matching these erpolate/Extrapolate weight does not ind requires use of Phili requires use of Phili requires use of Phili erly identified by 45	characteris e): configura clude the 50 ips Healthca ips Healthca ips Healthca 980086787	tics was teste ation not teste 0 LB patient are Seismic k are CT Box S are Seismic k 1 under Phili	ed. ed; seismic o load presen (it (Part No. seismic Mou (it (Part No. ps Medical S	certification is t during testin 4598 008 819 nting Strip (P 4598 013 579 Systems (Cle	established 1g. 561 or equiv art No. 4598 921 or equiv veland), Inc	d through eval valent). 8 011 47561 o valent).	uation of t	testing of ent).	f similar n	nodels in	the produ	uct line.



#### **ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

**PHILIPS HEALTHCARE** 

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#### TABLE 2:

SYSTEM MFR. Philips Medical Systems Nederland B.V.													
SYSTEM Philips CT Big Bo Philips CT Big Bo	ore Base System ore Base System,	IMR	(4598015 (4598016	569961) 535841)									
	PART	APPRO	OX. DIMENSIONS (IN.)		MAX. WT.								
COMPONENT	NUMBER	W	D	Н	(LB.)	MOUNT	BASIS <sup>[1]</sup>	$F_P/W_P$	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	Ω₀
GANTRIES				20	ODC								
GANTRY, Brilliance Big Bore [3][8]	459800746192			FOKC	DDE C			0.40	0.0	4			
LH Actuator, Seismic	459800121282	99	39	78.7	4503	Rigid	UUT1602-1	2.40	2.0	1	1	1 ½	1 ½
RH Actuator, Seismic	459800121292		N.		100	Dase		1.10	2.0	0			
GANTRY, Brilliance Big Bore [3]	459801479581			USI	TPU	Digid	1	2.40	2.0	1			
LH Actuator, Seismic	459800121282	99	39	78.7	4503	Base		2.40	2.0	0	1	1 1⁄2	1 ½
RH Actuator, Seismic	459800121292	0	2	OSP	-0469					Ū			
GANTRY, Ingenuity [8]	459800708861		۰ <b>۲</b> /۱۱۱۰			Rigid		2.40	2.0	1			
LH Actuator, Seismic	459800121282	93	37	78.9	4300	Base	UUT1603-4	1.13	2.0	0	1	1 ½	1 ½
RH Actuator, Seismic	459800121292		BY:	limoth	y J Pila	nd		-	-	-			
PATIENT TABLES													
Patient Support, Bariatric [3]	453567391363	22.7	107.40A	25.4 min	9/ <b>890</b> <sup>[2]</sup> 0	Rigid Base	SAME AS UUT1602-2	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
CONSOLES					4		0						
LCC CRC Rack (Avnet) [4]	459801540281		T,				5						
CT Gen5.3 IDose CIRS, Z8 + ACQ (HP Z8)	459801493311	24	35	30	309	Rigid Base	UUT1806-3	1.44 1.13	2.0	1	1	2 1⁄2	2
Host z4, Kbd, Mouse, CAN, Adaptor (HP Z4)	459801493301		R	VA RU	DING	Obase		1.15	2.5	0			
CRC RACK IMR (Avnet) [5]	459801286611			501	LUIN								
CT Gen 5.3 IMR CIRS S1, Z8 + ACQ (HPn Z8)	459801626701	24	35	30	340	Rigid Base	UUT1806-4	1.44 1.13	2.0	1	1	2 1⁄2	2
CT Gen 5.3 IMR CIRS S2, Z8 (HP Z8)	459801626691					Dase		1.15	2.5	0			
HOST RACK IMR (Avnet) [6]	459801287961					Pigid		1 11	20	1			
Host z4, Kbd, Mouse, CAN, Adaptor (HP Z4)	459801493301	13	35	30	189	Base	UUT1806-5	1.13	2.5	0	1	2 1⁄2	2
MISC													
CT Box Assembly (Grayhill)	459801478151	15.8	4	3.5	4	СТА	SAME AS UUT1707-4	1.44 1.13	2.0 2.5	1 0	1	2 1⁄2	2

Table continues next page



EASE & SEISMIC ENGINEERING

#### ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

**PHILIPS HEALTHCARE** 

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#### TABLE 2:

SYSTEM MFR.	Philips Me	lical Systen	ns Nederland	d B.V.											
SYSTEM	Philips CT Philips CT	Big Bore Ba Big Bore Ba	ase System ase System,	IMR	(4598018 (4598016	569961) 535841)									
			PART	APPRO	X. DIMENSIO	NS (IN.)	MAX. WT.								
COMPONENT			NUMBER	W	D	Н	(LB.)	MOUNT	BASIS <sup>[1]</sup>	<b>F</b> <sub>P</sub> /₩ <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>
MOUNT	Rigid Base above the b CTA (Count	( <u>Floor) Moun</u> ase. ertop Ancho	<u>nt:</u> free-stand pred): unit is a	ling, base-m	nounted towe	r configurat	ion with the co n (e.g. built-in	omponent riç countertop,	gidly attached desktop, et. a	l to a supp al.).	orting st	ructure ar	nd no late	eral suppo	ort
NOTES	1. BA • • 2. Pa 3. Cc 4. LC 5. CF 6. HC 7. Cc 8. Mc	SIS: JUT#: unit m SAME: comp NT (Interpol ine. tient table we mponent rec C CRC Rack C RACK IM ST RACK IM mponent rec del is includ	natching thes ponent is ider late/Extrapola eight does no quires use of k requires use MR requires us MR requires use quires use of ed only for pu	e characteri ntical to test ate): configu ot include the Philips Heal e of Philips use of Philips use of Philips Philips Heal urpose of int	e 500 LB pat thcare Seismic Kit ( Seismic Kit ( Seismic Kit s Seismic Kit thcare CT B cerpolation an	sted. ot for possib sted; seismi nic Kit (Part Part No. 45 (Part No. 45 t (Part No. 45 t (Part No. 45 t of Seismic nd not used	le variations in c certification esent during tr No. 4598 008 9801561661 c 9801561811 59801561877 Mounting Strip with the CT s	n part numb is establishe esting. 8 81561 or equivalent or	er, color, or se ad through eva quivalent). t). t). 598 011 4756 entified in this	oftware. aluation of 61 or equi table.	f testing of testing of testing of testing of the second sec	of similar	models i	n the pro	duct



# EASE

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

### **PHILIPS HEALTHCARE**

#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT1602-1	Brilliance Big Bo	ore CT Gan	try							
MANUFACTURER:	Philips Healthcare					ik i	THE N			
IDENTIFICATION:	Part No.: 459800746	192					-			
					T I			、 _		
DESCRIPTION:	Component of the Bri	lliance Big Bor	e CT syste	m		1000	10			
							ALL AND AND A			
								n e		
							BA			
MOUNTING:	Floor mounted using	(8) - ¾" dia GR	8 bolts		2		2			
PROPERTIES:		/	EOR	CODECC						
	DIMENSIONS (in.)	E.D			LOW	EST RESONAN	T FREQUE	NCY (Hz.)		
Width	Depth	Height	6	Weight (lb.)	Front-Axis	Side	-Axis	Vertical-Axis		
99	39	78.7		4511	4.4	4	.8	23.6		
SHAKE TABLE TEST P	ARAMETERS	4	00	P 0460	1 C					
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	0409	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g	) A <sub>RIG-V</sub> (g)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 Tim <sup>0</sup>	thy I <sup>1.5</sup> ila	3.20	2.40	1.68	0.68		
Unit maintained st	ructural integrity and re	mained functio	nal per ma	anufacturer require	nent after the IC	C-ES AC 156 te	st	- <b>I</b>		
			4_0	140/2020						
UUT 1602- 2	Bariatric Patient	Support	IE: IU	/19/2020						
MANUFACTURER:	Philips Healthcare (S	uzhou) Co., Lto	i	+ -	19					
IDENTIFICATION:	Part No.: 453567391	361			- Pra					
	Serial No.: 921012	100				e contration)				
		\r/			OTRAD		-			
DESCRIPTION:	Component of the Bri	lliance Big Bor	e CT syste	m/LD				ALL COLOR		
								-		
						7				
								-		
MOUNTING:	Floor mounted using	(5) – 5/8" dia G	R 8 bolts					the second second		
							1.			
PROPERTIES:										
	DIMENSIONS (in.)				LOW	EST RESONAN	T FREQUE	NCY (Hz.)		
Width	Depth Height Weight (lb.) Side-Axis Front-Axis Vertical-Axis									
22.7	107.4	36		908	3.3	7	.3	4.7		
SHAKE TABLE TEST P	ARAMETERS		I		1	1				
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	IP	A <sub>FLX-H</sub> (g)	А <sub>RIG-Н</sub> (g)	A <sub>FLX-V</sub> (g	) A <sub>RIG-V</sub> (g)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68		
Unit maintained st	ructural integrity and re	mained functio	nal per ma	anufacturer require	nent after the IC	C-ES AC 156 te	st			



### **PHILIPS HEALTHCARE**

#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT1503- A1	CRC RACK IMR											
MANUFACTURER:	Philips Medical System Granite MEDSYSTEMS	s (Cleveland).	Inc. &									
IDENTIFICATION:	Rack	CIRS	S1	CIRS S2				a on and				
	459800444991 Rev C	4598009 <sup>,</sup>	459800912731 459800914211									
DESCRIPTION:	CRC RACK IMR includ CIRS S1 (CIRS, HP z8 CIRS S2 (CIRS, HP z8 Gen 5.X Console Seisr The Test Specimen wa Floor mounted using (4 aluminum interface plat	ng: 40 E5-2630v3 40 E5-2630v3 hic Kit (PART: s fully populat ) -3/8" dia. All e.	4Drv, SN No Raid 4598 00 ed throug en head o	N5BP, ACQ4e; , SN5BP) 8 81561) ghout test. cap screws to	)							
PROPERTIES:			EOR	CODE	Cr							
	DIMENSIONS (in.)	FD				LOWE	EST RESONAN	IT FREQUENC	CY (Hz.)			
Width	Depth	Height		Weight (lb.	.)	Side-Axis	Fron	t-Axis	Vertical-Axis			
24.0	35.5	29.9	U.	316	ν	8.1	6	6.6	9.2			
SHAKE TABLE TEST F	PARAMETERS	4	0		0	NS.						
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h		3	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)			
CBC 2016	ICC-ES AC156	2.5	1.0	1.5	5	4.00	3.00	1.68	0.68			
Unit maintained s	tructural integrity and ren	nained functio	nal per m	anufacturer re	quire	ment after the ICC	C-ES AC 156 te	st				

#### UUT1503-A3 LCC CRC RACK DVI DATE 10/ MANUFACTURER: Philips Medical Systems (Cleveland), Inc. & Granite MEDSYSTEMS IDENTIFICATION: (CRC) CIRS Rack 455012005711 Rev B 459800918411 459800914091 DESCRIPTION: LCC CRC RACK DVI consist of: Common Host Computer (CRC) (Host, HP z440, CAN, Adaptor) CIRS Computer (CIRS, HP z840 E5-2620v3 4Drv, SN5BP, ACQ4e) Gen 5.X Console Seismic Kit (PART: 4598 008 81561) The Test Specimen was fully populated throughout test.

aluminum interface plate.

Floor mounted using (4) -3/8" dia. Allen head cap screws to



#### PROPERTIES:

MOUNTING:

	DIMENSIONS (in.)					LOW	EST I	RESONAN	T FREQUE	NCY	(Hz.)		
Width	Depth	Height		Weight (lb.)		Front-Axis		Side-Axis		Vertical-Axis			
24.0	35.5	29.9			307	9.4		5.6		20.8			
SHAKE TABLE TEST P	ARAMETERS												
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/	h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A	<sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (	g)	A <sub>RIG-V</sub> (g)		
CBC 2016	ICC-ES AC156	1		1.5	4.00		3.00	1.68		0.68			
Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test													



### **PHILIPS HEALTHCARE**

#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1603-6	CT Box								
MANUFACTURER:	Philips Medical System	ms (Cleveland)	, Inc.& '	Vexos					
IDENTIFICATION:	Part No.: 4535670271	95 Rev:F							
	Serial No.: 232								
DESCRIPTION:	Component of the Ing	enuity CT syst	em.				•	-	
	Unit is common to mu	Itiple CT syste	ms.				10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
MOUNTING:	Rigid Base mounted u	ısing (2) – 2" x	1" Velc	ro strips	DDEco				
PROPERTIES:						M			
	DIMENSIONS (in.)	NE		<b>~</b> •		LOWE	EST RESONAN	T FREQUENC	SY (Hz.)
Width	Depth	Height	$\cup$	) W	eight (lb.)	Front-Axis	Side	-Axis	Vertical-Axis
15.8	4	3.5			4	22.4	>5	50	>50
SHAKE TABLE TEST P	PARAMETERS	7	0	SP-	-0469	m Vill			
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/	h	l <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	2.0 2.5 BY	Tim	othy	/ J Bila	nd 3.20	2.40	1.68	0.68
Unit maintained st	ructural integrity and re	mained functio	nal per	manufa	cturer requirer	ment after the ICC	C-ES AC 156 tes	st	
				OI1	10000				

DATE: 10/19/2020

UUT 1707-4	CT Box	C			e l	2					
MANUFACTURER:	Philips Medical Systems (Cleveland), Inc.& Grayhill Electronics (Shenzhen) Co.										
IDENTIFICATION:	Part No.: 459800484611					.90.			7	BERICH"	SEA 5
	Serial No.: 000841					T.					
DESCRIPTION:	Component of the Bri CT systems.	lliance Big Bor	e CT & I	ngenu	ity	# • · · · · ·		A	2/18 y 1/2	-××	C
MOUNTING:	Rigid Base mounted using (2) – Philips Healthcare CT Box Seismic Mounting Strip (P/N 459801147561) at each of two legs.										
PROPERTIES:											
	DIMENSIONS (in.)					LOW	EST F	RESONAN	T FREQUE	NCY	(Hz.)
Width	Width Depth Height			Weight (lb.) Side		Side-Axis	Front-Axis		-Axis	٧	ertical-Axis
15.8	4	3.5		4		>50	>50		50		>50
SHAKE TABLE TEST	PARAMETERS										
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/ł	n	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A	RIG-H <b>(g)</b>	A <sub>FLX-V</sub> (g	g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0		1.5	3.20		2.40	1.68		0.68
Unit maintained s	tructural integrity and re	mained functio	onal per r	manufa	acturer requirer	ment after the IC	C-ES	AC 156 te	st		



### **PHILIPS HEALTHCARE**

#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1713-1	CRC RACK (	Avnet)							
MANUFACTURER:	Philips Medical Systems (Cleveland), Inc. & Avnet Technology Solutions (Tianjin) Ltd.								
IDENTIFICATION:	CRC Rack	Common Host	CIRS						
	459801089011	459801304931	459801305071			-			
DESCRIPTION:	<ul> <li>CRC RACK (Avnet) including:</li> <li>Common Host Computer (CRC) (HP z440): UPD Host z440, Kbd, Mouse, CAN, Adapter</li> <li>CIRS Computer (HP z840): UPD Host z440, Kbd, Mouse, CAN, Adapter</li> <li>CRC Rack Seismic package KIT (459801357921)</li> <li>The Test Specimen was fully populated throughout test.</li> <li>Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.</li> </ul>								
OBCODEO									
	DIMENSIONS (in.	) EDFC		LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Weight (lb.)	Longit -Axis	Transv-Axis	Vert-Axis			
24.0	35.6	29.9	317.5	12.58	11.54	21.43			
ICC-ES AC156 SH	AKE TABLE TEST PAI	RAMETERS			CODE: 2016 CBC				
S <sub>DS</sub> (G)	z/h		A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)			
2.0 2.5	1 0	1.5 BY TIN	3.2 Othy J Pile	2.4	1.68	0.68			
Unit satisfied AC15	6 requirements for stru	ctural integrity and mai	nufacturer requiremen	ts for functionality after	r AC156 test				

### UUT 1806-3 Gen 5.3 CRC Rack IMR (Avnet) 9/2020

MANUFACTURER:	Avnet Technology Sol Hewlett Packard (HP)	utions (Taijin), Ltd. (A & Philips Healthcare	wnet) (Suzhou) Co., Ltd.						
IDENTIFICATION:	PART No.: 459801540	281			-				
	Serial No.: N/A	PAL		001					
DESCRIPTION:	Gen 5.3 CRC Rack (A Component of Big Bor Includes the following: CT Gen5.3 IDose CIR w/ 1 TB NVMe SS Host z4, Kbd, Mouse, Also included: 2 TB NVMe SSD, Part Requires Seismic Kit Test unit was fully pop	vnet) e, iCT and Ingenuity S, Z8 + ACQ (HP), P SD, Part: MZVLB1T0 CAN, Adaptor; Part: MZVLB2T0HMLB-0 12NC P/N: 4598015 ulated throughout test	CT systems art: 459801493311 HALR-000H2 459801493301 000H1 661661 st.	and a second					
MOUNTING:	Floor mounted using (4 aluminum interface pla	l) -3/8" diam. SAE J4 te.	29 Grade 8 to						
	DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Weight (lb.)	Longit -Axis	Transv-Axis	Vert-Axis			
24	35	30	309	16.26	22.41	16.87			
ICC-ES AC156 SH	AKE TABLE TEST PAR	AMETERS			CODE: 2016 CBC				
S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)			
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68			
Unit satisfied AC15	6 requirements for struc	tural integrity and ma	anufacturer requiremen	ts for functionality afte	er AC156 test.				



### **PHILIPS HEALTHCARE**

#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1806-4	Gen 5.3 CRC I	Rack IMR (Avne	et)						
MANUFACTURER:	Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.								
IDENTIFICATION:	PART No. 45980128	36611				and and			
DESCRIPTION:	Gen 5.3 CRC Rack IMR (Avnet)         Component of Big Bore, iCT and Ingenuity CT systems         Includes the following:         CT Gen 5.3 IMR CIRS S1, Z8 + ACQ (HP), Part: 459801626701         CT Gen 5.3 IMR CIRS S2, Z8 (HP), Part: 459801626691         w/ 1 TB NVMe SSD, Part: MZVLB1T0HALR-000H2         Also included:         2 TB NVMe SSD, Part: MZVLB2T0HMLB-000H1         Requires Seismic Kit 12NC P/N: 459801561811         Test unit was fully populated throughout test.								
MOUNTING:	Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.								
	DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis			
24	35	30	340	15.66	21.63	16.29			
ICC-ES AC156 SHA	AKE TABLE TEST PAF	RAMETERS				CODE: 2016 CBC			
S <sub>DS</sub> (G)	z/h		$DSPA_{FLX-H}(G)$	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)			
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68			
Unit maintained s	tructural integrity and r	remained functional pe	r manufacturer requirer	ment after AC156 tes	t.				
UUT 1806-5	Gen 5.3 Host	Rack IMR (Avn	let)/19/2020						
MANUFACTURER:	Avnet Technology Hewlett Packard (F								
IDENTIFICATION:	Part No.: 459801287961 Serial No.: AVTHOSTIMR00002								
DESCRIPTION:	Gen 5.3 Host Rack IMR (Avnet) Component of Big Bore, iCT and Ingenuity CT systems								
	Host Z4, Kbd, Mouse, CAN, Adaptor (HP), Part: 459801493301								
	Requires Seismic Test unit was fully	; Kit 12NC P/N: 45980 <sup>2</sup> populated throughout t	1561671 iest.						

DIMENSIONS (in.) LOWEST RESONANT FREQUENCY (Hz.) Width Side-Axis Front-Axis Vert-Axis Depth Height Weight (lb.) 13 35 30 189 36.55 13.03 25.90 ICC-ES AC156 SHAKE TABLE TEST PARAMETERS CODE: 2016 CBC  $S_{\text{DS}}\left(G\right)$ z/h  $A_{\text{FLX-H}}\left(G\right)$  $A_{RIG-H}(G)$ A<sub>FLX-V</sub> (G) A<sub>RIG-V</sub> (G)  $I_P$ 2.0 1 1.5 3.20 2.40 1.68 0.68 2.5 0 Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.

Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to

aluminum interface plate.

MOUNTING:



### **PHILIPS HEALTHCARE**

#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1603-4	Ingenuity CT G	antry							
MANUFACTURER:	Philips Medical System				1				
IDENTIFICATION:	Part No. 4598007088								
-	Serial No. 80680				A FL. L.	()	7.		
DESCRIPTION:	Component of the Ing	enuity CT syste	em.				0		
MOUNTING:	Floor mounted using (	8) - ¾ diam. S	SAE J429	CODE			P.		
FROFERIES.		2.0	-0.					У (Ц <del>,</del> )	
Width	Depth	Height	-	Weight (lb.)	Front-Axis	Side	-Axis	Vertical-Axis	
93.5	37	4336	7.0	6	.5	22.2			
SHAKE TABLE TEST P	PARAMETERS	4/	0	SP-0460					
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h		A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2016	ICC-ES AC156	2.0 2.5 BY	1 Tim⁰	othy J <sup>1</sup> <sup>5</sup> ila	nd <sup>3.20</sup>	2.40	1.68	0.68	
Unit maintained st	ructural integrity and rea	mained functior	nal per m	nanufacturer require	ment after the IC	C-ES AC 156 te	st		

