

Prüfbericht-Nr.: <i>Test Report No.:</i>	50253497 001	Auftrags-Nr.: <i>Order No.:</i>	238103680	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	01-Apr-2019	
Auftraggeber: <i>Client:</i>	FOXCONN No. 4-1, Minsheng St., Tucheng Dist., New Taipei City 236, Taiwan (R.O.C.)			
Prüfgegenstand: <i>Test item:</i>	4K OTT			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	BFX-AT100、BFX-UH200			
Auftrags-Inhalt: <i>Order content:</i>	Bluetooth Profile testing			
Prüfgrundlage: <i>Test specification:</i>	Profile's Interoperability test specification (Please refer to clause 3.3 of the test report)			
Wareneingangsdatum: <i>Date of receipt:</i>	15-May-2019	Test pictures see page 22.		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000922798-002			
Prüfzeitraum: <i>Testing period:</i>	20-May-2019 - 03-Jun-2019			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Taiwan Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland Taiwan Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
Report date / tested by:		kontrolliert von / reviewed by:		
				
2019-06-03 <i>Datum</i>	Brenda Chen/Senior Project Manager <i>Name / Stellung</i>	2019-06-03 <i>Datum</i>	Frankie Lin/Section Manager <i>Name / Stellung</i>	
<i>Date</i>	<i>Name / Position</i>	<i>Date</i>	<i>Name / Position</i>	
	Unterschrift <i>Signature</i>		Unterschrift <i>Signature</i>	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

1 Administrative Data

1.1 Project Data

Project Responsible: Brenda Chen
Date of Test Report: 2019/06/03
Date of first test: 2019/05/20
Date of last test: 2019/06/03

1.2 Applicant Data

Company Name: FOXCONN
Address: No. 4-1, Minsheng St., Tucheng Dist., New Taipei City 236, Taiwan (R.O.C.)
Contact Person: Catherine Chen

1.3 Test Laboratory Data

The following list shows all places and laboratories involved for test result generation:

TÜV Rheinland – Taiwan

Company Name : TÜV Rheinland Taiwan Ltd.
Street : 11F, No.758, Sec. 4, Bade Rd.,
City : 105 Taipei
Country : Taiwan
Contact Person : Mr. Frankie Lin
Phone : +886 2 2172 7000 #1008
Fax : +886 2 2528 0018
E Mail : Frankie.Lin@tuv.com

Laboratory Details

<i>Lab ID</i>	<i>Identification</i>	<i>Responsible</i>	<i>Accreditation Info</i>
Lab1	Bluetooth Interoperability Laboratory	Mr. Arvin Ho	TAF registration no: TAF-3567

2 Test Object Data

2.1 General OUT Description

The following section list all OUTs (Object's Under Test) involved during testing:

OUT: 4K OTT

Type / Model / Family: 4K OTT
Model: BFX-AT100 · BFX-UH200

Product Category: Audio and Visual

Manufacturer:

Company Name: FOXCONN

Address: No. 4-1, Minsheng St., Tucheng Dist., New Taipei City 236, Taiwan (R.O.C.)

Contact Person: Catherine Chen

Parameter List:

Parameter Description	Value
Prospective Date of listing	31.12.2019

2.2 Detailed Description of OUT Samples

Sample : A000922798-002

OUT Identifier	4K OTT
Sample Description	The BFX-AT100/BFX-UH200 is a 4K OTT BOX, and use BT Chipset
Serial No.	n/a
HW Status	015
SW Status	R27
Date of Receipt	2019/05/15
Nominal Voltage	5 V

Parameter List:

Parameter name	Value
Parameter for Scope Bluetooth_v2	
BD-ADDR	EC5C681DBBC4

2.3 OUT Features

Features for OUT:

<i>Designation</i>	<i>Description</i>	<i>Allowed Values</i>	<i>Supported Value(s)</i>
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Features for scope: Bluetooth_v2

A2DP

Table 1: Roles

Support	Item	Capability	Reference	Status	Comment
☒	1/1	Source (SRC)	[1] 2.2	C.1	C.1: Mandatory to support at least one of the defined roles.
☐	1/2	Sink (SNK)	[1] 2.2	C.1	C.1: Mandatory to support at least one of the defined roles.

Table 2a: A2DP SRC - Major Profile Version (X.Y)

Prerequisite: A2DP 1/1

Support	Item	Capability	Reference	Status	Comment
☐	2a/1	A2DP 1.0	A2DP 1.0	C.1	C1: Mandatory to support one and only one major profile version
☐	2a/2	A2DP 1.2	A2DP 1.2	C.1	C1: Mandatory to support one and only one major profile version
☒	2a/3	A2DP 1.3	A2DP 1.3	C.1	C1: Mandatory to support one and only one major profile version

Table 2: A2DP SRC Features

Support	Item	Capability	Reference	Status	Comment
☒	2/1	Initiate Connection Establishment	[4] 4.1.1	M	
☒	2/2	Accept Connection Establishment	[4] 4.1.1	M	
☒	2/3	Initiate Start Streaming	[4] 4.1.2	M	
☒	2/4	Accept Start Streaming	[4] 4.1.2	M	
☒	2/5	Send Audio Stream	[1] 3.2.1	M	
☒	2/6	Initiate Connection Release	[4] 4.1.3	M	
☒	2/7	Accept Connection Release	[4] 4.1.3	M	
☐	2/8	Initiate Suspend	[4] 4.1.4	O	
☐	2/9	Accept Suspend	[4] 4.1.4	O	
☒	2/10	SBC Encoder	[1] 4.3	M	
☐	2/10a	Encode and Forward Audio Stream	[1] 3.2.1	O	
☐	2/11	SBC Configurations in 16 KHz sampling frequency rate	[1] 4.3.2.1	O	
☐	2/12	SBC Configurations in 32 KHz sampling frequency rate	[1] 4.3.2.1	O	
☒	2/13	SBC Configurations in 44.1 KHz sampling frequency rate	[1] 4.3.2.1	C.1	C.1: At least one of the values shall be supported.
☐	2/14	SBC Configurations in 48 KHz sampling frequency rate	[1] 4.3.2.1	C.1	C.1: At least one of the values shall be supported.
☐	2/15	Delay Reporting	[1] 5.1.1.2, [4] 4.1.8	C.2	C2: Mandatory IF A2DP 2a/3 "A2DP 1.3" AND (2/16 "SRC video playback via Bluetooth VDP" OR 2/17 "SRC video playback on a local video display") is supported, otherwise Excluded.
☐	2/16	SRC video playback via Bluetooth VDP	[4] 4.1.8	C.3	C3: Optional IF A2DP 2a/3 "A2DP 1.3" is supported, otherwise Excluded.
☐	2/17	SRC video playback on a local video display.	[4] 4.1.8	C.3	C3: Optional IF A2DP 2a/3 "A2DP 1.3" is supported, otherwise Excluded.

Table 3: Supported Codecs in SRC

Support	Item	Capability	Reference	Status	Comment
☒	3/1	SBC encoder - E1 & E2	[1] 4.3 & Appendix B, [3] Appendix A	M	
☐	3/1a	Encode and Forward SBC Audio Stream	[1] 4.3 & Appendix B, [3] Appendix A	O	
☐	3/2	Optional Codec	[1] 4.2.2, 4.2.3, 4.4, 4.5, 4.6	O	
☐	3/3	MPEG-1,2 Audio decoder (Transcoding MPEG-1,2 Audio to SBC)	[1] 4.4, 4.2.4	C.1/C.2	C.1: Mandatory to support at least one implementation if 3/2 (Optional codec) is supported, otherwise Excluded. C.2: Mandatory to support IF A2DP 3/4 (MPEG-1,2 Audio encoder) is supported, otherwise Optional.
☐	3/4	Encode and forward MPEG-1,2 Audio Stream	[1] 4.4	C.1	C.1: Mandatory to support at least one implementation if 3/2 (Optional codec) is supported, otherwise Excluded.
☐	3/5	MPEG-2,4 Audio decoder (Transcoding MPEG-2,4 AAC Audio to SBC)	[1] 4.5, 4.2.4	C.3/C1	C.3: Mandatory to support IF A2DP 3/6 (MPEG-2,4 AAC encoder) is supported, otherwise Optional.
☐	3/6	Encode and forward MPEG-2,4 AAC Audio Stream	[1] 4.5	C.1	C.1: Mandatory to support at least one implementation if 3/2 (Optional codec) is supported, otherwise Excluded.
☐	3/7	ATRAC family decoder (Transcoding ATRAC family Audio to SBC)	[1] 4.6, 4.2.4	C.1/C.4	C.1: Mandatory to support at least one implementation if 3/2 (Optional codec) is supported, otherwise Excluded. C.4: Mandatory to support IF A2DP 3/8 (ATRAC family encoder) is supported, otherwise Optional.
☐	3/8	Encode and forward ATRAC family Audio Stream	[1] 4.6	C.1	C.1: Mandatory to support at least one implementation if 3/2 (Optional codec) is supported, otherwise Excluded.

Table 3a: Supported Codec Features in SRC

Prerequisite: A2DP 3/1

Prerequisite: A2DP 3/1

Support	Item	Capability	Reference	Status	Comment
☒	3a/1	Channel Mode – Mono	[1] 4.3.2.2	M	
☒	3a/2	Channel Mode – Dual Channel	[1] 4.3.2.2	C.1	C.1: At least one of the values shall be supported.
☐	3a/3	Channel Mode – Stereo	[1] 4.3.2.2	C.1	C.1: At least one of the values shall be supported.
☐	3a/4	Channel Mode – Joint Stereo	[1] 4.3.2.2	C.1	C.1: At least one of the values shall be supported.
☒	3a/5	Block Length 4	[1] 4.3.2.3	M	
☒	3a/6	Block Length 8	[1] 4.3.2.3	M	
☒	3a/7	Block Length 12	[1] 4.3.2.3	M	
☒	3a/8	Block Length 16	[1] 4.3.2.3	M	
☐	3a/9	Subbands – 4	[1] 4.3.2.4	O	
☒	3a/10	Subbands – 8	[1] 4.3.2.4	M	
☐	3a/11	Allocation – SNR	[1] 4.3.2.5	O	
☒	3a/12	Allocation – Loudness	[1] 4.3.2.5	M	

AVRCP

Table 1: Roles

Support	Item	Capability	Reference	Status	Comment
☐	1/1	Controller	2.2	C.1	C.1: Mandatory to support at least one of the defined roles.
☒	1/2	Target	2.2	C.1	C.1: Mandatory to support at least one of the defined roles.

Table 7: Target Features

Support	Item	Capability	Reference	Status	Comment
☐	7/1	Initiating Connection Establishment for Control	4.1.1	O	
☒	7/2	Accepting Connection Establishment for Control Initiated by CT	4.1.1	M	
☒	7/3	Initiating Connection Release for Control	4.1.2	M	
☒	7/4	Accepting Connection Release for Control Initiated by CT	4.1.2	M	
☒	7/5	Receiving UNIT INFO Command	4.1.3	M	
☒	7/6	Receiving SUBUNIT INFO	4.1.3	M	
☒	7/7	Receiving PASS THROUGH Command in category 1	4.1.3	C.1	C.1: Mandatory to support at least one of the categories. Supported operation_id's are shown in Table 8 to Table 11.
☐	7/8	Receiving PASS THROUGH Command in category 2	4.1.3	C.1	C.1: Mandatory to support at least one of the categories. Supported operation_id's are shown in Table 8 to Table 11.
☐	7/9	Receiving PASS THROUGH Command in category 3	4.1.3	C.1	C.1: Mandatory to support at least one of the categories. Supported operation_id's are shown in Table 8 to Table 11.
☐	7/10	Receiving PASS THROUGH Command in category 4	4.1.3	C.1	C.1: Mandatory to support at least one of the categories. Supported operation_id's are shown in Table 8 to Table 11.
☐	7/11	Get Capabilities Response	AVRCP 1.3 - 5.1.1	C.3	C.3: Mandatory if 7/7 is supported, otherwise Optional.
☐	7/12	List Player Application Settings Attributes Response	AVRCP 1.3 - 5.2.1	C.14	C.14: Mandatory if Player Application Settings Feature supported. If any item 7/12 – 7/15 is supported, all items 7/12 – 7/15 shall be supported, in accordance with Player Application Settings Feature support requirements, otherwise Excluded.

☐	7/13	List Player Application Setting Values Response	AVRCP 1.3 - 5.2.2	C.14	C.14: Mandatory if Player Application Settings Feature supported. If any item 7/12 – 7/15 is supported, all items 7/12 – 7/15 shall be supported, in accordance with Player Application Settings Feature support requirements, otherwise Excluded.
☐	7/14	Get Current Player Application Settings Value Response	AVRCP 1.3 - 5.2.3	C.14	C.14: Mandatory if Player Application Settings Feature supported. If any item 7/12 – 7/15 is supported, all items 7/12 – 7/15 shall be supported, in accordance with Player Application Settings Feature support requirements, otherwise Excluded.
☐	7/15	Set Player Application Setting Value Response	AVRCP 1.3 - 5.2.4	C.14	C.14: Mandatory if Player Application Settings Feature supported. If any item 7/12 – 7/15 is supported, all items 7/12 – 7/15 shall be supported, in accordance with Player Application Settings Feature support requirements, otherwise Excluded.
☐	7/16	Get Player Application Setting Attribute Text Response	AVRCP 1.3 - 5.2.5	O	
☐	7/17	Get Player Application Setting Value Text Response	AVRCP 1.3 - 5.2.6	O	
☐	7/18	Inform Displayable Character Set Response	AVRCP 1.3 - 5.2.7	O	
☐	7/19	Inform Battery Status Of CT Response	AVRCP 1.3 - 5.2.8	O	
☐	7/20	Get Element Attributes Response	AVRCP 1.3 - 5.3.1	C.3	C.3: Mandatory if 7/7 is supported, otherwise Optional.
☐	7/21	Get Play Status Response	AVRCP 1.3 - 5.4.1	C.2	C.2: Mandatory if 7/20 is supported, otherwise Optional.
☒	7/22	Register Notification Response	AVRCP 1.3 - 5.4.2	C.12	C.12: Mandatory if 7/7 or (7/8 AND 7/60) or 7/9 is supported, otherwise Optional.
☐	7/23	Notify Event Response: PLAYBACK_STATUS_CHANGED	AVRCP 1.3 - 5.4.2	C.4	C.4: Mandatory if 7/22 and 7/20 is supported, otherwise Optional.
☐	7/24	Notify Event Response: TRACK_CHANGED	AVRCP 1.3 - 5.4.2	C.4	C.4: Mandatory if 7/22 and 7/20 is supported, otherwise Optional.
☐	7/25	Notify Event Response: TRACK_REACHED_END	AVRCP 1.3 - 5.4.2	O	

☐	7/26	Notify Event Response: TRACK_REACHED_START	AVRCP 1.3 - 5.4.2	O	
☐	7/27	Notify Event Response: TRACK_POS_CHANGED	AVRCP 1.3 - 5.4.2	O	
☐	7/28	Notify Event Response: BATT_STATUS_CHANGED	AVRCP 1.3 - 5.4.2	O	
☐	7/29	Notify Event Response: SYSTEM_STATUS_CHANGED	AVRCP 1.3 - 5.4.2	O	
☐	7/30	Notify Event Response: PLAYER_APPLICATION_SETTING_CHANGED	AVRCP 1.3 - 5.4.2	O	
☐	7/31	Request Continuing Response	AVRCP 1.3 - 5.5.1	C.2	C.2: Mandatory if 7/20 is supported, otherwise Optional.
☐	7/32	Abort ContinuingResponse Response	AVRCP 1.3 - 5.5.2	C.2	C.2: Mandatory if 7/20 is supported, otherwise Optional.
☐	7/33		N/A	N/A	
☐	7/34	Next Group	5.6.1	C.15	C.15: Mandatory if Basic Group Navigation Feature supported. If any item 7/34 or 7/35 is supported it is mandatory to support both, in accordance with Basic Group Navigation support requirements, otherwise Excluded.
☐	7/35	Previous Group	5.6.2	C.15	C.15: Mandatory if Basic Group Navigation Feature supported. If any item 7/34 or 7/35 is supported it is mandatory to support both, in accordance with Basic Group Navigation support requirements, otherwise Excluded.
☒	7/36	Media Player Selection	AVRCP 1.4 - 6.9	C.8	C.8: Mandatory if (7/7 or 7/9) is supported, otherwise Excluded.
☒	7/37	SetAddressedPlayer	AVRCP 1.4 - 6.9.1	C.8	C.8: Mandatory if (7/7 or 7/9) is supported, otherwise Excluded.
☒	7/38	GetFolderItems(MediaPlayerList)	AVRCP 1.4 - 6.9.1	C.8	C.8: Mandatory if (7/7 or 7/9) is supported, otherwise Excluded.
☒	7/38b	GetTotalNumberOfItems(MediaPlayerList)	AVRCP 1.6 - 6.10.4.4	C.8	C.8: Mandatory if (7/7 or 7/9) is supported, otherwise Excluded.

☒	7/39	EVENT_AVAILABLE_PLAYERS_CHAN	AVRCP 1.4 - 6.9.4	C.8	C.8: Mandatory if (7/7 or 7/9) is supported, otherwise Excluded.
☒	7/40	EVENT_ADDRESSED_PLAYER_CHAN	AVRCP 1.4 - 6.9.2	C.8	C.8: Mandatory if (7/7 or 7/9) is supported, otherwise Excluded.
☐	7/41	Supports Multiple Players	AVRCP 1.4 - 6.9	O	
☐	7/42	Browsing	AVRCP 1.4 - 6.10	O	
☐	7/42a	Initiating connection establishment for browsing channel	4.1.1	O	
☐	7/43	SetBrowsedPlayer	AVRCP 1.4 - 6.9.3	C.6	C.6: Mandatory if 7/42 is supported, otherwise Excluded.
☐	7/43a	Non-addressed Player Browsing	AVRCP 1.6 - 6.9.3	C.17	C.17: Optional IF 7/42 (Browsing) is supported, otherwise Excluded .
☐	7/44	ChangePath	AVRCP 1.4 - 6.10.4.1	C.6	C.6: Mandatory if 7/42 is supported, otherwise Excluded.
☐	7/45	GetFolderItems(Filesystem)	AVRCP 1.4 - 6.10.4.2	C.6	C.6: Mandatory if 7/42 is supported, otherwise Excluded.
☐	7/45b	GetTotalNumberOfItems(Filesystem)	AVRCP 1.6 - 6.10.4.4	C.6	C.6: Mandatory if 7/42 is supported, otherwise Excluded.
☐	7/46	GetItemAttributes	AVRCP 1.4 - 6.10.4.3	C.6	C.6: Mandatory if 7/42 is supported, otherwise Excluded.
☐	7/47	PlayItem(Filesystem)	AVRCP 1.4 - 6.12.1	C.6	C.6: Mandatory if 7/42 is supported, otherwise Excluded.
☐	7/48	EVENT_UIDS_CHANGED	AVRCP 1.4 - 6.10.3.3	C.9	C.9: Mandatory if 7/49 is supported, otherwise Optional.
☐	7/49	Database Aware Players	AVRCP 1.4 - 6.10.3.2	O	
☐	7/50	Searching	AVRCP 1.4 - 6.11	O	
☐	7/51	Search	AVRCP 1.4 - 6.11	C.10	C.10: Mandatory if 7/50 is supported, otherwise Excluded.
☐	7/52	GetFolderItems(Search Results)	AVRCP 1.4 - 6.10.4.2	C.10	C.10: Mandatory if 7/50 is supported, otherwise Excluded.

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☐	7/52b	GetTotalNumberOfItems(SearchResults)	AVRCP 1.6 - 6.10.4.4	C.10	C.10: Mandatory if 7/50 is supported, otherwise Excluded.
☐	7/53	PlayItem(SearchResultList)	AVRCP 1.4 - 6.12.1	C.10	C.10: Mandatory if 7/50 is supported, otherwise Excluded.
☐	7/54	NowPlaying	AVRCP 1.4 - 6.10.1	C.11	C.11: Mandatory if 7/42 is supported, otherwise Optional.
☐	7/55	GetFolderItems(NowPlayingList)	AVRCP 1.4 - 6.10.4.2	C.11	C.11: Mandatory if 7/42 is supported, otherwise Optional.
☐	7/55b	GetTotalNumberOfItems(NowPlayingList)	AVRCP 1.6 - 6.10.4.4	C.11	C.11: Mandatory if 7/42 is supported, otherwise Optional.
☐	7/56	PlayItem(NowPlayingList)	AVRCP 1.4 - 6.12.1	C.11	C.11: Mandatory if 7/42 is supported, otherwise Optional.
☐	7/57	AddToNowPlaying	AVRCP 1.4 - 6.12.2	O	
☐	7/58	EVENT_NOW_PLAYING_CONTENT_CHANGED	AVRCP 1.4 - 6.9.5	C.11	C.11: Mandatory if 7/42 is supported, otherwise Optional.
☐	7/59	Playable Folders	AVRCP 1.4 - 6.10.2.2	O	
☐	7/60	Absolute Volume	AVRCP 1.4 - 6.13	C.5	C.5: Mandatory if 7/8 is supported, otherwise Excluded.
☐	7/61	SetAbsoluteVolume	AVRCP 1.4 - 6.13.1	C.5	C.5: Mandatory if 7/8 is supported, otherwise Excluded.
☐	7/62	NotifyVolumeChange	AVRCP 1.4 - 6.13.2	C.5	C.5: Mandatory if 7/8 is supported, otherwise Excluded.
☐	7/63	Error Response	AVRCP 1.4 - 6.15	O	
☐	7/64	General Reject	AVRCP 1.4 - 6.15.2.1	C.13	C.13: Mandatory if 7/7 or 7/9 or 7/42 is supported, otherwise Optional.
☒	7/65	Discoverable Mode	AVRCP 1.4 - 12.1	M	
☐	7/66	PASSTHROUGH operation supporting Press and Hold	AVRCP 4.1.3	O	
☐	7/67	Cover Art	AVRCP 1.6 - 5.14	O	
☐	7/68	GetImageProperties	AVRCP 1.6 - 5.14	C.16	C.16: Mandatory if 7/67 (Cover Art) is supported, otherwise Excluded.
☐	7/69	GetImage	AVRCP 1.6 - 5.14	C.16	C.16: Mandatory if 7/67 (Cover Art) is supported, otherwise Excluded.
☐	7/70	GetLinkedThumbnail	AVRCP 1.6 - 5.14	C.16	C.16: Mandatory if 7/67 (Cover Art) is supported, otherwise Excluded.

Table 7b: Target Major Profile Version (X.Y)

Support	Item	Capability	Reference	Status	Comment
☐	7b/1	AVRCP v1.0	AVRCP v1.0	C.1	C.1: Mandatory to support only one Profile Version.
☐	7b/2	AVRCP v1.3	AVRCP v1.3	C.1	C.1: Mandatory to support only one Profile Version.
☐	7b/4	AVRCP v1.5	AVRCP v1.5	C.1	C.1: Mandatory to support only one Profile Version.
☒	7b/5	AVRCP v1.6	AVRCP v1.6	C.1	C.1: Mandatory to support only one Profile Version.

Table 8: Operation_id of category 1 for TG

Prerequisite: AVRCP 7/7

Support	Item	Capability	Reference	Status	Comment
☐	8/1	0	See Comments	O	
☐	8/2	1	See Comments	O	
☐	8/3	2	See Comments	O	
☐	8/4	3	See Comments	O	
☐	8/5	4	See Comments	O	
☐	8/6	5	See Comments	O	
☐	8/7	6	See Comments	O	
☐	8/8	7	See Comments	O	
☐	8/9	8	See Comments	O	
☐	8/10	9	See Comments	O	
☐	8/11	dot	See Comments	O	
☐	8/12	enter	See Comments	O	
☐	8/13	clear	See Comments	O	
☐	8/14	sound select	See Comments	O	
☐	8/15	input select	See Comments	O	
☐	8/16	display information	See Comments	O	
☐	8/17	help	See Comments	O	
☐	8/18	power	See Comments	O	
☒	8/19	play	See Comments	M	
☒	8/20	stop	See Comments	M	
☒	8/21	pause	See Comments	O	
☐	8/22	record	See Comments	O	
☐	8/23	rewind	See Comments	O	
☐	8/24	fast forward	See Comments	O	
☐	8/25	eject	See Comments	O	
☒	8/26	forward	See Comments	O	
☒	8/27	backward	See Comments	O	
☐	8/28	angle	See Comments	O	
☐	8/29	subpicture	See Comments	O	
☐	8/30	F1	See Comments	O	
☐	8/31	F2	See Comments	O	
☐	8/32	F3	See Comments	O	
☐	8/33	F4	See Comments	O	
☐	8/33a	F5	See Comments	O	
☐	8/34	vendor unique	See Comments	O	

HID

Table 0: Profile Versions

Support	Item	Capability	Reference	Status	Comment
☒	0/1	HID 1.0	HID 1.0 Latest Version	C.1	C.1: Mandatory to support one and only one profile version.

Table 1: Roles

Support	Item	Capability	Reference	Status	Comment
☒	1/1	Host, Report protocol	5.0	C.1	C.1: Mandatory to support at least one of these roles.
☐	1/2	HID Role	6.0	C.1	C.1: Mandatory to support at least one of these roles.
☐	1/3	Host, Boot protocol	5.0	C.1	C.1: Mandatory to support at least one of these roles.

Table 2: Application Procedures

Prerequisite: HID 1/1 or HID 1/3

Support	Item	Capability	Reference	Status	Comment
☒	2/1	Establish HID connection	7.1.1	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Optional.
☒	2/2	Accept HID connection	7.1.1	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Optional.
☒	2/3	Terminate HID connection	7.1.1	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Optional.
☒	2/4	Accept Termination of HID connection	7.1.1	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Optional.
☒	2/5	Support for virtual cables	6.4	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Optional.
☒	2/6	HID initiated reconnection	6.4	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Optional.
☒	2/7	Host initiated reconnection	6.4	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Optional.
☒	2/8	Host data transfer to HID	7.1.4	C.1	C.1: Optional IF 1/3 (Host, Boot protocol) is supported; Mandatory if 1/1 (Host, Report protocol) is supported; otherwise Excluded.
☒	2/9	HID data transfer to Host	7.1.3	C.1	C.1: Optional IF 1/3 (Host, Boot protocol) is supported; Mandatory if 1/1 (Host, Report protocol) is supported; otherwise Excluded.
☐	2/10	HID Boot mode data transfer to Host	7.2.1	C.2	C.2: Mandatory IF 1/3 (Host, Boot protocol) is supported, otherwise Optional.
☐	2/11	Host Boot mode data transfer to HID	7.2.1	C.2	C.2: Mandatory IF 1/3 (Host, Boot protocol) is supported, otherwise Optional.
☐	2/12	Support for Application to send GET_Report	7.4.3	O	
☐	2/13	Support for Application to send SET_REPORT	7.4.4	O	
☐	2/14	Support for sending HCI_CONTROL with VIRTUAL_CABLE_UNPLUG	7.4.2	C.3	C.3: Optional IF 2/5 (Support for virtual cables) is supported, otherwise Excluded.
☐	2/15	Support for receiving HCI_CONTROL with VIRTUAL_CABLE_UNPLUG	7.4.2	C.3	C.3: Optional IF 2/5 (Support for virtual cables) is supported, otherwise Excluded.

Table 4: Host to Device Transfers

Prerequisite: HID 1/1 or HID 1/3

Support	Item	Capability	Reference	Status	Comment
☐	4/1	Data reports larger than device MTU on Control channel	7.4.10	C.1	C.1: Excluded IF 1/3 (Host, Boot protocol) otherwise Optional.
☐	4/2	Data reports larger than device MTU on Interrupt channel	7.4.10	C.1	C.1: Excluded IF 1/3 (Host, Boot protocol) otherwise Optional.
☒	4/3	Data reports to device	7.4.9	C.2	C.2: Excluded IF 1/3 (Host, Boot protocol); Mandatory if 1/1 (Host, Report protocol) is supported.
☐	4/4	Boot mode reports to device	7.2.1	O	

Table 6: Host Link Manager Procedures

Support	Item	Capability	Reference	Status	Comment
☐	6/1	Initiate Authentication before connection completed	6.7.1.1	C.1	C.1: Mandatory to support 6/1 (Initiate Authentication before connection completed) AND 6/2 (Initiate Authentication after connection completed) IF GAP 2/3 (Initiate LMP-Authentication) is supported, otherwise Excluded.
☐	6/2	Initiate Authentication after connection completed	6.7.1.1	C.1	C.1: Mandatory to support 6/1 (Initiate Authentication before connection completed) AND 6/2 (Initiate Authentication after connection completed) IF GAP 2/3 (Initiate LMP-Authentication) is supported, otherwise Excluded.
☐	6/3	Initiate pairing before connection completed	6.7.1.1	C.2	C.2: Mandatory to support 6/3 (Initiate pairing before connection completed) AND 6/4 (Initiate pairing after connection completed) IF Pairing is supported, otherwise Excluded.
☐	6/4	Initiate pairing after connection completed	6.7.1.1	C.2	C.2: Mandatory to support 6/3 (Initiate pairing before connection completed) AND 6/4 (Initiate pairing after connection completed) IF Pairing is supported, otherwise Excluded.
☐	6/5	Encryption	9.0	O	
☐	6/6	Initiate encryption	9.0	C.3	C.3: Mandatory IF 6/5 (Encryption) is supported, otherwise Excluded.
☐	6/7	Accept encryption requests	9.0	C.3	C.3: Mandatory IF 6/5 (Encryption) is supported, otherwise Excluded.
☒	6/8	Role switch (Master/Slave)	9.0	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Excluded.
☒	6/9	Request Master Slave switch	9.0	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Excluded.
☒	6/10	Accept Master Slave switch requests	9.0	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Excluded.
☐	6/11	Hold Mode	9.0	O	
☒	6/12	Sniff mode	9.0	C.4	C.4: Mandatory IF 1/1 (Host, Report protocol) is supported, otherwise Excluded.
☐	6/13	Park mode	9.0	O	

Table 7: Host Link Control Requirements

Support	Item	Capability	Reference	Status	Comment
☒	7/1	Supports inquiry, 79 channel	10.7.3	C.1	C.1: Mandatory IF 1/1 (Host, Report protocol) supported, otherwise Excluded.
☐	7/2	Supports inquiry scan, 79 channel	B:10.7.2	C.2	C.2: Feature should not be used by a Host, but can be supported in LM.

IOPT

Table 1: Interoperability Test Specification

Support	Item	Capability	Reference	Status	Comment
☒	1/1	Interoperability	IOP	M	

Interoperability

Table 2: Design Configuration

Support	Item	Capability	Reference	Status	Comment
☐	2/1	BR/EDR	GAP 0/1	C.1	C.1: Mandatory to support one and only one transport.
☐	2/2	LE	GAP 0/2	C.1	C.1: Mandatory to support one and only one transport.
☒	2/3	BR/EDR/LE	GAP 0/3	C.1	C.1: Mandatory to support one and only one transport.

ICS Variable	Type	Value
TSPC_support_AdvancedAudioDistributionProfile_Sink	BOOLEAN	FALSE
TSPC_support_AdvancedAudioDistributionProfile_Source	BOOLEAN	TRUE
TSPC_support_AVRemoteControlProfile_CT	BOOLEAN	FALSE
TSPC_support_AVRemoteControlProfile_TG	BOOLEAN	TRUE
TSPC_support_BasicImagingProfile_CLIENT	BOOLEAN	FALSE
TSPC_support_BasicImagingProfile_SERVER_ImagingAutomatic Archive	BOOLEAN	FALSE
TSPC_support_BasicImagingProfile_SERVER_ImagingReference dObjects	BOOLEAN	FALSE
TSPC_support_BasicImagingProfile_SERVER_ImagingResponder	BOOLEAN	FALSE
TSPC_support_BasicPrintingProfile_PRINTER	BOOLEAN	FALSE
TSPC_support_BasicPrintingProfile_PRINTER_ReflectedUI	BOOLEAN	FALSE
TSPC_support_BasicPrintingProfile_SENDER_Referenced_object s_Service	BOOLEAN	FALSE
TSPC_support_CommonISDNAccessProfile_AP	BOOLEAN	FALSE
TSPC_support_CommonISDNAccessProfile_IC	BOOLEAN	FALSE
TSPC_support_CordlessTelephony_GW	BOOLEAN	FALSE
TSPC_support_CordlessTelephony_TL	BOOLEAN	FALSE
TSPC_support_DialUpNetworkingProfile_DT	BOOLEAN	FALSE
TSPC_support_DialUpNetworkingProfile_GW	BOOLEAN	FALSE
TSPC_support_ExtendedServiceDiscoveryProfile_IP_LAP	BOOLEAN	FALSE
TSPC_support_ExtendedServiceDiscoveryProfile_IP_PAN	BOOLEAN	FALSE
TSPC_support_ExtendedServiceDiscoveryProfile_L2CAP	BOOLEAN	FALSE
TSPC_support_FAXProfile_DT	BOOLEAN	FALSE
TSPC_support_FAXProfile_GW	BOOLEAN	FALSE
TSPC_support_FileTransferProfile_CLIENT	BOOLEAN	FALSE
TSPC_support_FileTransferProfile_SERVER	BOOLEAN	FALSE
TSPC_support_NewHandsFreeProfile_AG	BOOLEAN	FALSE
TSPC_support_NewHandsFreeProfile_HF	BOOLEAN	FALSE
TSPC_support_HardCopyReplacementProfile_CLIENT_CR_Regi sterNotofication_support	BOOLEAN	FALSE
TSPC_support_HardCopyReplacementProfile_CLIENT_print	BOOLEAN	FALSE
TSPC_support_HardCopyReplacementProfile_CLIENT_scan	BOOLEAN	FALSE
TSPC_support_HardCopyReplacementProfile_SERVER_print	BOOLEAN	FALSE

TSPC_support_HardCopyReplacementProfile_SERVER_scan	BOOLEAN	FALSE
TSPC_support_HeadsetProfile_AG	BOOLEAN	FALSE
TSPC_support_HeadsetProfile_HS	BOOLEAN	FALSE
TSPC_support_HumanInterfaceDeviceProfile Device	BOOLEAN	FALSE
TSPC_support_HumanInterfaceDeviceProfile Host	BOOLEAN	TRUE
TSPC_support_IntercomProfile	BOOLEAN	FALSE
TSPC_support_LANAccessProfile_DT	BOOLEAN	FALSE
TSPC_support_LANAccessProfile_LAP	BOOLEAN	FALSE
TSPC_support_ObjectPushProfile_CLIENT	BOOLEAN	FALSE
TSPC_support_ObjectPushProfile_SERVER	BOOLEAN	FALSE
TSPC_support_PersonalAreaNetworkProfile_GN	BOOLEAN	FALSE
TSPC_support_PersonalAreaNetworkProfile_NAP	BOOLEAN	FALSE
TSPC_support_PersonalAreaNetworkProfile_PANU	BOOLEAN	FALSE
TSPC_support_PhonebookAccessProfile_PCE	BOOLEAN	FALSE
TSPC_support_PhonebookAccessProfile_PSE	BOOLEAN	FALSE
TSPC_support_SerialPortProfile_DevB	BOOLEAN	FALSE
TSPC_support_ServiceDiscoveryApplicationProfile	BOOLEAN	FALSE
TSPC_support_SIMAccessProfile_CLIENT	BOOLEAN	FALSE
TSPC_support_SIMAccessProfile_SERVER	BOOLEAN	FALSE
TSPC_support_SynchronizationProfile_CLIENT	BOOLEAN	FALSE
TSPC_support_SynchronizationProfile_SERVER	BOOLEAN	FALSE
TSPC_support_UDIProfile_MT	BOOLEAN	FALSE
TSPC_support_UDIProfile_TA	BOOLEAN	FALSE
TSPC_support_VideoDistributionProfile_Sink	BOOLEAN	FALSE
TSPC_support_VideoDistributionProfile_Source	BOOLEAN	FALSE
TSPC_support_WAPOverBluetooth_CLIENT	BOOLEAN	FALSE
TSPC_support_WAPOverBluetooth_PROXY	BOOLEAN	FALSE
TSPC_support_MessageAccessProfile_MCE	BOOLEAN	FALSE
TSPC_support_MessageAccessProfile_MSE	BOOLEAN	FALSE

Additional information for scope: Bluetooth_v1

CatA
CatB
CatC
A2DP1.3
AVRCP1.6
HID1.0
IOPT

2.4 Auxiliary Equipment

<i>AE No.</i>	<i>Type Designation</i>	<i>Serial No.</i>	<i>HW Status</i>	<i>SW Status</i>	<i>Description</i>
AE 017	PTS	n/a	PTS Bluetooth dongle	7.4.1	

2.5 Setups used for Testing

For each setup a relation is given to determine if and which samples and auxiliary equipment is used. The left side list all OUT samples and the right side lists all auxiliary equipment for the given setup.

<i>Setup No.</i>	<i>List of OUT samples</i>	<i>List of auxiliary equipment</i>
<i>Sample No.</i>	<i>Sample Description</i>	<i>AE No. AE Description</i>
A000922798-002	(4K OTT)	
<i>Sample:</i>	A000922798-002 4K OTT	AE017

3 Results

3.1 General

Documentation of tested devices:

Available at the test laboratory.

Interpretation of the Test results:

The results of the inspection are described on the following pages, where 'Conformity' or 'Passed' means that the certification criteria were verified and that the tested device is conform to the applied standard.

In cases where 'Declaration' is printed, the required documents are available in the manufacturers product documentation.

In cases where 'not applicable' is printed, the test case requirements are not relevant to the specific equipment implementation.

3.2 List of the Applicable Body

(Body for Scope: Bluetooth_v2)

<i>Description</i>	<i>Description</i>
SIG TCRL Profiles 2019-01-28	Test Case Reference List for profiles version 2.0 and later released 2019-01-28

3.3 List of Test Specification

<i>Test Specification:</i>	A2DP
<i>Date / Version</i>	2019/01/28 Version: A2DP.TS/1.3.2.0
<i>Title:</i>	A2DP TSS and TP
<i>Description:</i>	Advanced Audio Distribution Profile
<i>Test Specification:</i>	AVRCP
<i>Date / Version</i>	2019/01/28 Version: AVRCP.TS/1.6.2.0
<i>Title:</i>	AVRCP TSS and TP
<i>Description:</i>	Audio/Video Remote Control Profile
<i>Test Specification:</i>	HID
<i>Date / Version</i>	2019/01/28 Version: HID.TS/1.0.14
<i>Title:</i>	HID TSS and TP
<i>Description:</i>	Human Interface Device 1.1 Profile
<i>Test Specification:</i>	IOPT
<i>Date / Version</i>	2019/01/28 Version: IOPT.TS/4.0.3
<i>Title:</i>	IOPT TSS and TP
<i>Description:</i>	Product Profile Interoperability Testing(IOP)

3.4 Summary

Test Case Identifier / Name

A2DP.TS.1.3.2.0		Test Evidence Information
Test Case ID	Test Case Description	Test Case Verdict (Pass, Fail, Waived, Referenced)
A2DP/SRC/AS/BV-01-I	Streaming - SBC (SRC IUT)	PASS
A2DP/SRC/SDP/BV-01-I	SDP Interoperability SRC	PASS
A2DP/SRC/CC/BV-09-I	Configurations SRC Decoder	PASS
A2DP/SRC/SET/BV-01-I	Est. Connect. - SRC (SRC IUT)	PASS
A2DP/SRC/SET/BV-02-I	Est. Connect. - SNK (SRC IUT)	PASS
A2DP/SRC/SET/BV-03-I	Start Stream. - SRC (SRC IUT)	PASS
A2DP/SRC/SET/BV-04-I	Start Stream. - SNK (SRC IUT)	PASS
A2DP/SRC/SET/BV-05-I	Restart Stream. - SRC (SRC IUT)	PASS
A2DP/SRC/SET/BV-06-I	Restart Stream. - SNK (SRC IUT)	PASS
A2DP/SRC/REL/BV-01-I	Release Stream. - SRC (SRC IUT)	PASS
A2DP/SRC/REL/BV-02-I	Release Stream. - SNK (SRC IUT)	PASS

AVRCP.TS.1.6.2.0		Test Evidence Information
Test Case ID	Test Case Description	Test Case Verdict (Pass, Fail, Waived, Referenced)
AVRCP/TG/CEC/BV-01-I	Connection establishment -CT (TG IUT)	PASS
AVRCP/TG/CRC/BV-01-I	Connection release-CT (TG IUT)	PASS
AVRCP/TG/CRC/BV-02-I	Connection release-TG (TG IUT)	PASS
AVRCP/TG/ICC/BV-01-I	Information collection by UNIT INFO command (TG IUT)	PASS
AVRCP/TG/ICC/BV-02-I	Information collection by SUBUNIT INFO command (TG IUT)	PASS
AVRCP/TG/PTT/BV-01-I	PASS THROUGH command transfer-category 1 (TG IUT)	PASS
AVRCP/TG/MPS/BV-01-I	Listing of Available Media Players (TG IUT)	PASS
AVRCP/TG/MPS/BV-02-I	Availability of Media Players (TG IUT)	PASS
AVRCP/TG/MPS/BV-03-I	PASSTHROUGH functionality of Media Players (TG IUT)	PASS

HID.TS.1.0.14		Test Evidence Information
Test Case ID	Test Case Description	Test Case Verdict (Pass, Fail, Waived, Referenced)
TP/CON/BV-01-I	Limited Discoverable Mode	PASS
TP/HCE/BV-03-I	Device initiated reconnection	PASS
TP/HCE/BV-04-I	Host initiated reconnection	PASS
TP/HCR/BV-01-I	Host initiated connection release	PASS
TP/HCR/BV-02-I	Device initiated connection release	PASS
TP/HDT/BV-01-I	Device data transfer	PASS
TP/HDT/BV-02-I	Host data transfer	PASS
TP/DAT/BV-01-C	Short reports	PASS
TP/HCE/BV-01-I	Host connection establishment	PASS

IOPT.TS.4.0.3		Test Evidence Information
Test Case ID	Test Case Description	Test Case Verdict (Pass, Fail, Waived, Referenced)
IOPT/CL/HID-HOS/SFC/BV-15-I	Successful Connection with future SDP Record value – HID Host	PASS
IOPT/CL/A2DP-SRC/SFC/BV-01-I	Successful Connection with future SDP Record value – A2DP Source	PASS
IOPT/SR/COD/BV-01-I	Class-of-Device	PASS
IOPT/SR/SDSS/BV-02-I	Service Discovery - Service Search	PASS
IOPT/SR/SDAS/BV-03-I	Service Search - Attribute Search	PASS
IOPT/CL/SDR/BV-04-I	Service Search - Response	PASS

4 Test Equipment Details

4.1 List of Used Test Equipment

The hardware and software status are shown for the testing period.

Test Equipment Interoperability Laboratory

Lab ID: Lab 1
Description: Interop. Lab.

Single Devices for Interoperability Laboratory

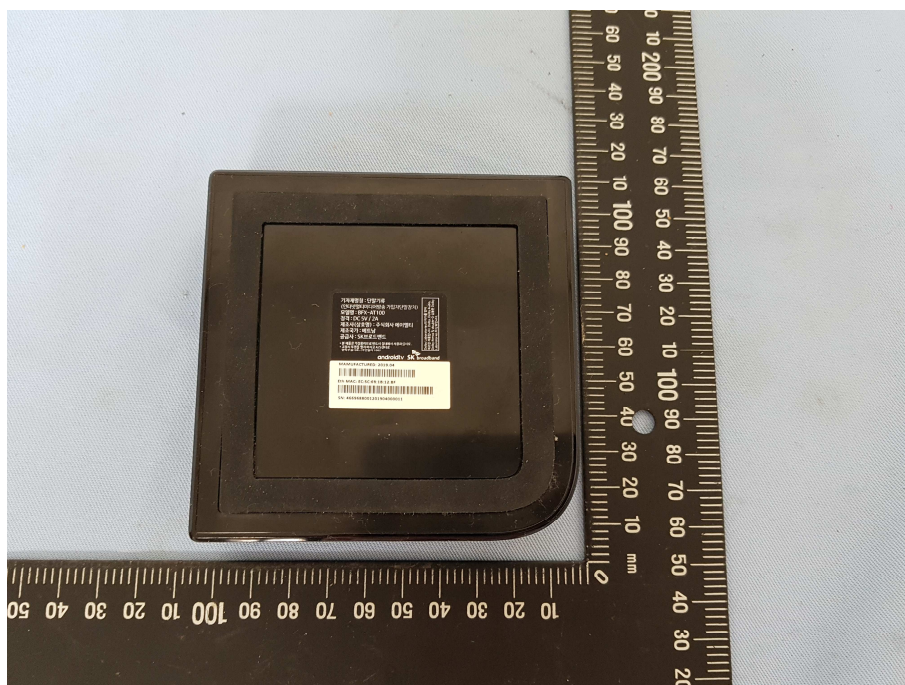
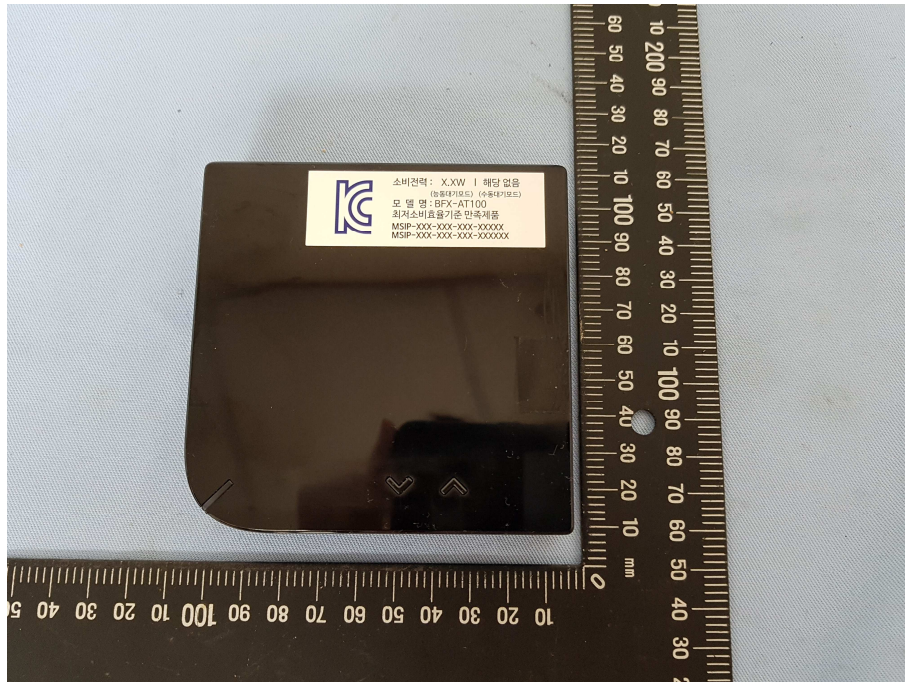
<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>
PTS	Profile Tuning Suite <i>HW/SW Status</i>	n/a	Bluetooth SIG
<i>PTS version 7.4.1</i>			

4.2 Laboratory Environmental Conditions

<i>Laboratory</i>	<i>Date</i>	<i>Temperature</i>	<i>Humidity</i>	<i>Air Pressure</i>
Lab 1	2019/05/20	24°C	44%	1010 hPa
Lab 1	2019/05/24	23°C	48%	1010 hPa
Lab 1	2019/05/30	23°C	45%	1010 hPa
Lab 1	2019/06/03	22°C	45%	1010 hPa

5 Annex

5.1 Additional Information for Sample Description



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