

TOPPING

D900

使用手册 

User Manual 

Model: TP335
V1.0

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1. Contents list

D900	x 1
Remote control	x 1
USB cable	x 1
AC cable	x 1
Bluetooth antenna	x 1
Product information card	x 1

Note: You can download the driver on <https://www.toppingaudio.com/downloads>.

2. Attribute

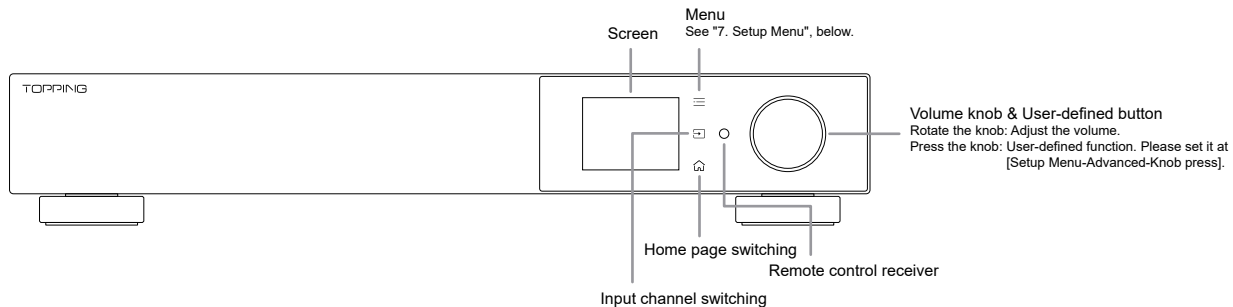
Measured	33.0cm x 5.7cm x 21.0cm
Weight	2.52 Kg
Power input	100-240VAC 50Hz/60Hz
Signal input	USB-B/USB-C/BT/OPT1/OPT2/COAX1/COAX2/ AES/IIS
Line Out output	XLR (Line Out) , XLR (PRE)
Other connectors	12V Trigger In (3.5mm jack)
	12V Trigger Out (3.5mm jack)
Bluetooth range	10M
Display	2inch LCD
Standby power consumption	<1W
Power consumption	<10W

3. Input range

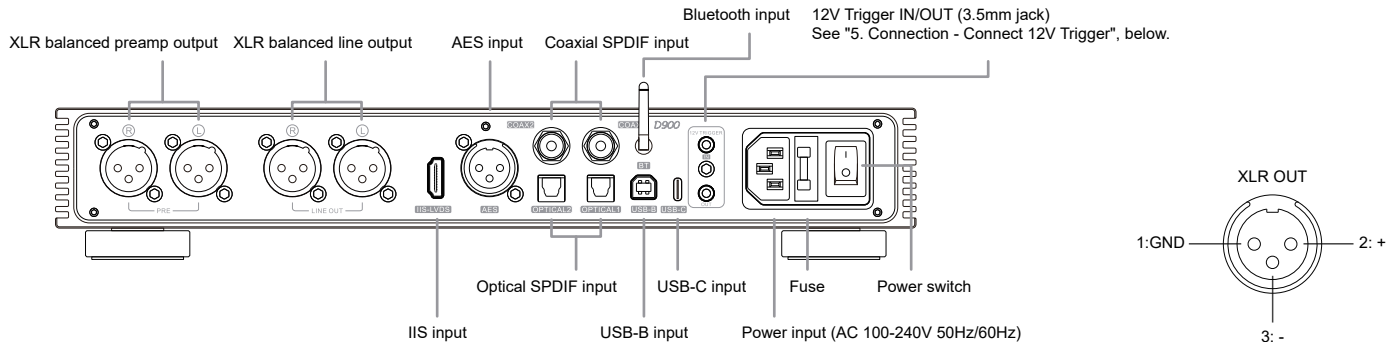
USB IN	PCM	44.1kHz-768kHz/16bit-32bit
	DSD	DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
	PEQ	44.1kHz-192kHz/16bit-32bit
IIS IN	PCM	44.1kHz-768kHz/16bit-32bit
	DSD	DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
COAX/OPT/AES IN	PCM	44.1kHz-192kHz/16bit-24bit
	DSD	DSD64 (DoP)
	PEQ	44.1kHz-192kHz/16bit-24bit
BT IN	AAC/SBC/APTX/APTX HD/APTX-Adaptive/LDAC	
	PEQ	44.1kHz-96kHz/16bit-24bit

4. Parts and names


Front panel

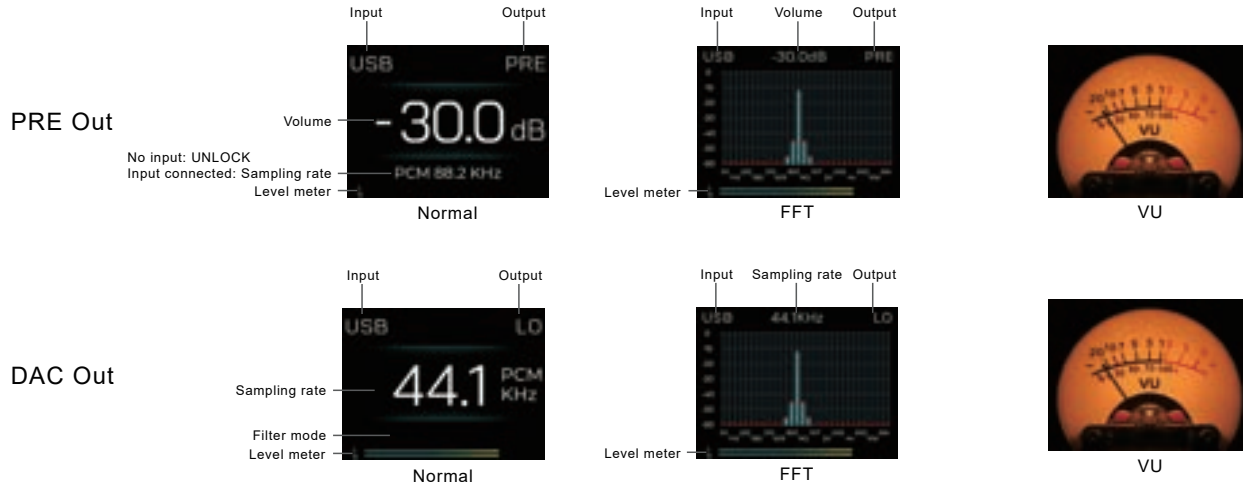


Rear panel



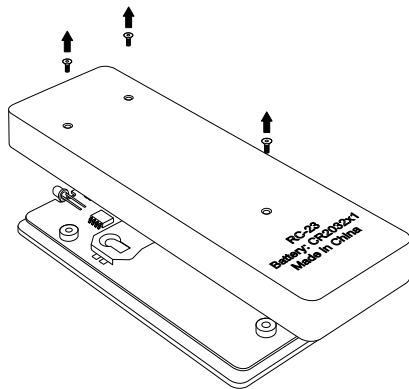
Display

There are three types of home page displays: Normal, VU and FFT, which can be switched by touching the  button on the front panel or set in the menu [Setup Menu - Display - Home].

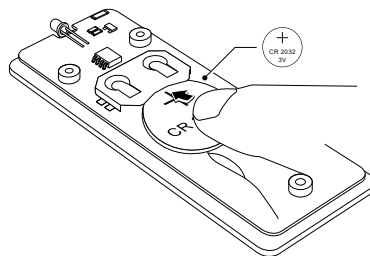


*The VU meter, FFT and Level meter display the output amplitude of Line Out (unaffected by the volume control).

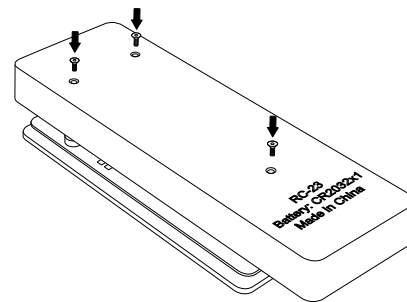
Install remote control battery



1. Use the included H1.27 screwdriver to remove the three screws on the back.

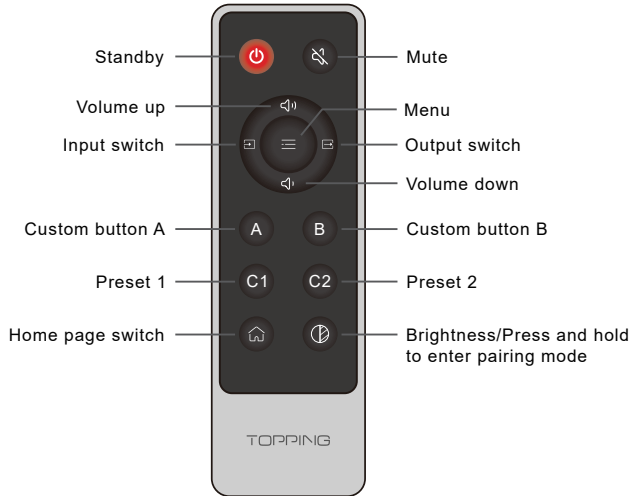


2. Insert the CR2032 button cell (not included) in the direction of the arrow .



3. Install according to the original path.

Remote control



The function of these two buttons are customizable. See "Advanced" in the "Setup Menu", below.



Operation: Press and hold the C1/C2 button for 3 seconds to save the current settings. Short press the C1/C2 button to use the corresponding settings.

What was saved: Volume and all settings in the setup menu, such as input channel, output channel, etc.

When to use: This feature is suitable for users who have more than one usage scenario, such as the two shown below. Using C1&C2 buttons to save and load settings may free you from changing settings one by one when you want to change usage scenario.

D900 settings	Usage scenario 1: Connect with headphone amp	Usage scenario 2: Connect with speaker
Input channel	USB	Bluetooth
Output channel	Line Out	PRE
Volume	Full Volume	-20dB

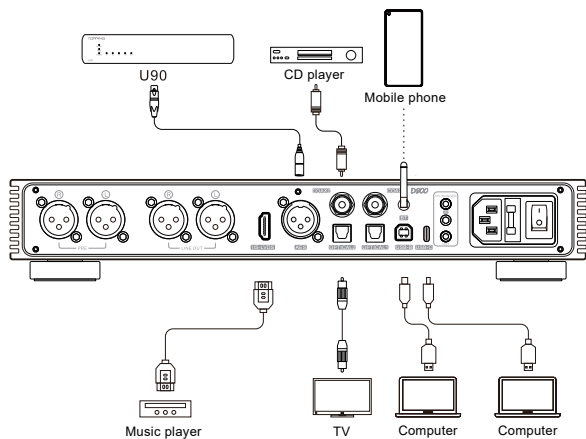


See "1-3 Brightness" in the "Setup Menu", below.

5. Connection

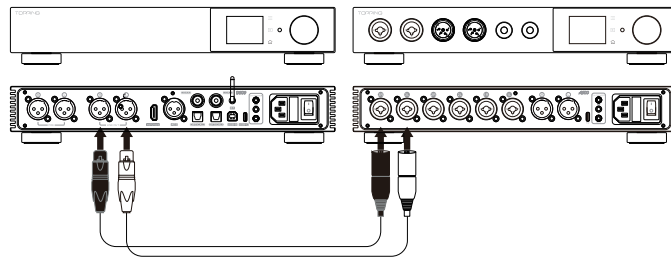
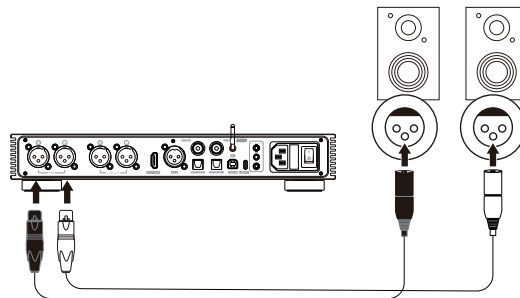
Connect to the input source

Support IIS, USB, Coaxial, Optical, Bluetooth, AES input.



Connect to amplifier or active speakers

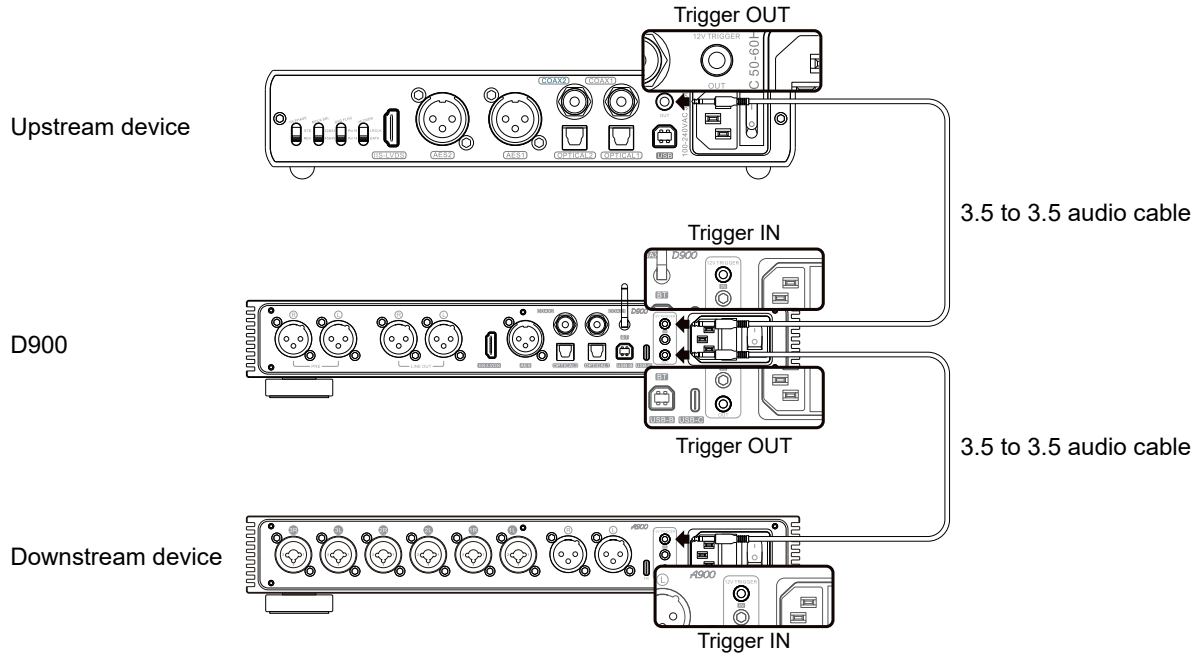
Use XLR cables to connect to amplifiers or active speakers. In order to avoid damage to your devices, please turn off the amplifier or active speakers before you connect them to D900.



Connect 12V Trigger

The 12V Trigger IN/OUT allows the D900 to be activated by other devices or to activate other devices via a 3.5mm AUX cable. The upstream device connected to Trigger In can control the power on/standby of D900, and the downstream device connected to Trigger Out can be controlled by D900.

*Before using the Trigger IN function, you need to set the On/Off trigger mode to "12V" in the setup menu. [Setup menu-Advanced-On/Off trigger]

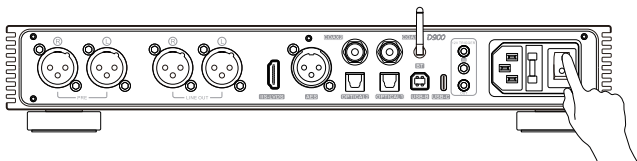


6. Operation

Power on & off / standby operation

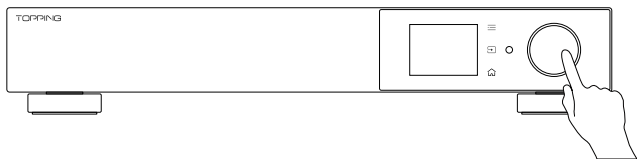
1. Power on & off

Press the power switch on the rear panel to turn the D900 on or off.



2. Standby setting

When it is working, press and hold the volume knob on the front panel to enter standby state and press to exit standby state when it is standby. Or you can use the remote control.








Volume setting

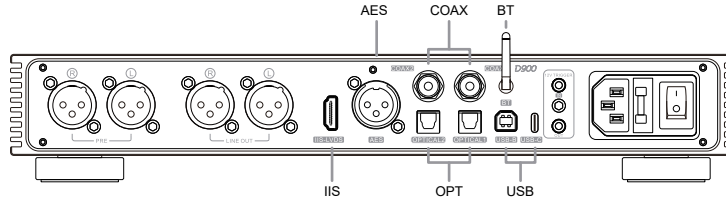
1. Mute and unmute

Press the mute button on the remote control to mute D900, press the mute button again or adjust the volume to exit mute state.

2. Volume adjusting

2. You can press the  on the front panel or press the  or  button on the remote control to adjust the volume. Note that long pressing the  or  button on the remote control will quickly change the volume, so please be careful in order to protect your hearing.

Note: Volume is fixed to 0dB in LO output and volume adjusting is invalid in this mode. [Setup menu-Output Settings-Output select-LO]



1. Input option setting

Since the device supports multiple input channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect frequently used input channels in [Setup menu-Input settings-Input option]. This can help reduce the time required for switching input sources.

The system supports two configuration methods: Auto-detect and Manual. You may choose either based on your actual usage needs.

• Auto-detect

The system will automatically detect whether a valid signal is received at each input port. If a valid signal is detected, the corresponding input channel will be added to the input options list. During input switching, the system will cycle through these channels.

• Manual (Default)

You may also manually select the input channels you wish to use. Once selected, the system will only switch between these specified channels during input switching.

Available input channels include:

<input checked="" type="checkbox"/> USB	<input checked="" type="checkbox"/> OPT1 (Optical1)	<input checked="" type="checkbox"/> OPT2 (Optical2)	<input checked="" type="checkbox"/> COAX1 (Coaxial1)
<input checked="" type="checkbox"/> COAX2 (Coaxial2)	<input checked="" type="checkbox"/> AES	<input checked="" type="checkbox"/> IIS	<input checked="" type="checkbox"/> BT (Bluetooth)

2. USB interface selection



The USB input offers two interface options, but only one can be active at a time—simultaneous use of both interfaces is not supported. You can select the desired interface in [Setup menu - Input settings - USB select].

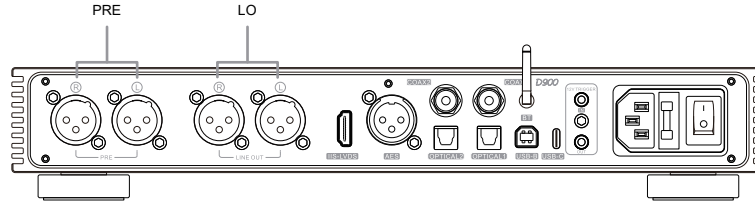
USB-B: Only effective for USB-B port.

USB-C: Only effective for USB-C port.

Auto: The system automatically detects whether a valid signal is received through the USB ports. Once a valid signal is detected, it will automatically switch to and use the recognized USB port. If both ports are connected, the system will prioritize and use the one that was connected first. (Default)

3. Input channel switching

After configuring the input options, you can press the  button on the front panel or press  button on the remote control to switch the input circularly.



1. Output option setting

Since the device supports multiple output channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect commonly used output channels in [Setup menu-Output settings-Output option], which will help reduce the time required for switching.

Available output channels include:

- LO (Line Out) PRE (Preamp Output) ALL

2. Output channel switching

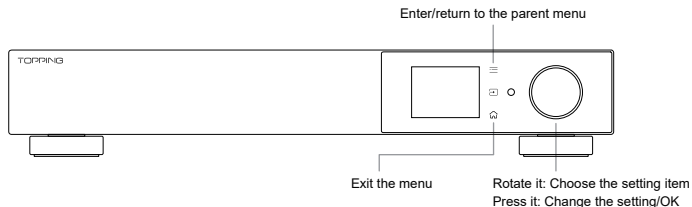
After configuring the output options, you can press the knob on the front panel or press  button on the remote control to switch the output circularly.

*By default, the knob press function is set to "Output select." If needed, you can change this setting in [Setup-Advanced-Knob press].

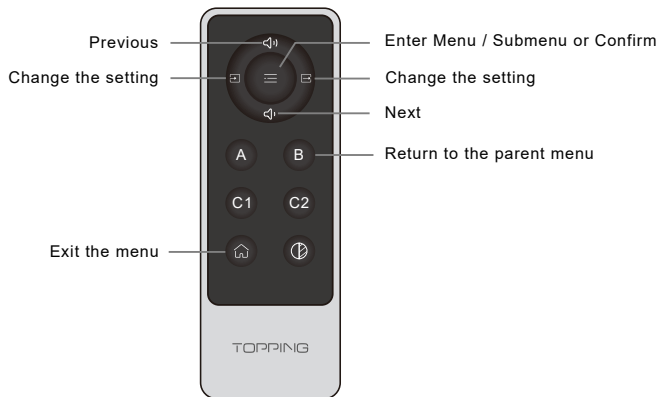
7. Setup Menu

Enter menu and change settings

1. Buttons on front panel



2. The remote control



Menu Overview



1. Display

1-1 Theme

Multiple options available, default Aurora.

1-2 Home

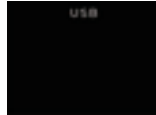
Choose home page

Normal (Default) , VU, FFT

1-3 Brightness

Low, Medium (Default), High, Auto

Auto has the same brightness as Medium. The difference is that when there is no operation after 30 seconds under Auto mode, the screen will be automatically turned off and only display the current input. You can press any button to light up the screen.



1-4 Classic VU 0dB

Set 0dB reference voltage for VU meter. For example, if set to +4dBu, when the pointer swings to 0dB, the current output level of the D900 is +4dBu.
+4dBu (Default) ,+10dBu

1-5 Level meter

All on (Default) , Normal page, FFT page, All off

2. Input settings

2-1 Input select

USB (Default) /Input option

2-2 Input option

Since the device supports multiple input channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect frequently used input channels in [Setup menu-Input settings-Input option]. This can help reduce the time required for switching input sources.

The system supports two configuration methods: Auto-detect and Manual. You may choose either based on your actual usage needs.

• Auto-detect

The system will automatically detect whether a valid signal is received at each input port. If a valid signal is detected, the corresponding input channel will be added to the input options list. During input switching, the system will cycle through these channels.

• Manual (Default)

You may also manually select the input channels you wish to use. Once selected, the system will only switch between these specified channels during input switching.

Available input channels include:

- | | | | |
|--|---|---|--|
| <input checked="" type="checkbox"/> USB | <input checked="" type="checkbox"/> OPT1 (Optical1) | <input checked="" type="checkbox"/> OPT2 (Optical2) | <input checked="" type="checkbox"/> COAX1 (Coaxial1) |
| <input checked="" type="checkbox"/> COAX2 (Coaxial2) | <input checked="" type="checkbox"/> AES | <input checked="" type="checkbox"/> IIS | <input checked="" type="checkbox"/> BT (Bluetooth) |

2-3 USB select

USB-B: Only effective for USB-B port.

USB-C: Only effective for USB-C port.

Auto: The system automatically detects whether a valid signal is received through the USB ports. Once a valid signal is detected, it will automatically switch to and use the recognized USB port. If both ports are connected, the system will prioritize and use the one that was connected first. (Default)

2-4 UAC

UAC2.0 (Default), UAC1.0

2-5 Bluetooth

Enabled (Default), Disabled

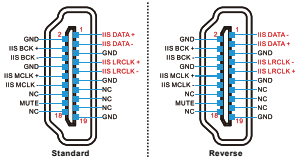
2-6 Bluetooth aptX

Enabled (Default), Disabled

The D900 supports multiple Bluetooth codecs. When set to OFF, the APTX-Adaptive will be disabled, allowing the use of other codecs (depending on the phone).

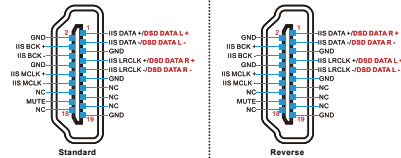
2-7 IIS phase

Standard (Default), Reverse



2-8 IIS DSD chennael

Standard (Default), Swap



2-9 DSD MUTE

Active high (Default), Active low, Off

When using the IIS interface, noise appears when switching the sample rate. You can choose Active high/low to eliminate the noise.

3. Output settings

3-1 Output select

ALL (Default) /Output option

3-2 Output option

Since the device supports multiple output channels, switching between them may take some time. To improve efficiency, it is recommended that you preselect commonly used output channels in [Setup menu-Output settings-Output option], which will help reduce the time required for switching.

Available output channels include:

LO (Line Out) PRE (Preamp Output) ALL

3-3 Channel balance

Setting range: C (Balance), L+0.5~9.5dB or R+0.5~9.5dB. (Default: C)

*When using the knob on the front panel, press the knob to enter the setting, rotate the knob to set the value, and press the knob again to exit the setting.

3-4 Output level

4V (Default), 5V

3-5 Volume step

0.5dB (Default), 1dB

3-6 Polarity

Normal (Default), Reverse

4. PEQ config

4-1 PEQ

Disabled (Default), Enabled

PEQ Support Range	
USB IN	44.1kHz-192kHz/16bit-32bit
IIS IN	Unsupported
COAX/OPT/AES IN	44.1kHz-192kHz/16bit-24bit
BT IN	44.1kHz-96kHz/16bit-24bit

4-2 PEQ select

Five default preset configurations are provided for users to choose from. Please note that these default preset configurations are not modifiable. Additionally, you can save five custom configurations to the D900 using the Topping Tune software. The D900 can then use these configurations offline.

5. Advanced

5-1 On/Off trigger

Signal: Input signal will trigger the device to turn on, but if the current input is not connected or input signal is invalid in 1 minute, it will automatically enter the standby state. Once having detected valid signal, it will automatically return to working state. (Default)

12V: 12V signal will trigger the device to turn on. When D900's Trigger In is connected to another device's 12V Trigger Out, D900's on/standby state can be controlled through this device. The D900 will remain in standby state until Trigger In detects the signal change from 0V to 12V. When changing back to 0V, the D900 will return to standby state.

Off: Disabled this function.

5-2 DSD bypass

Enabled, Disabled (Default)

When using line output only, DSD music will be passed through directly to Line Out.

DSD Bypass Support Range	
USB IN	DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
IIS IN	DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
COAX/OPT/AES IN	DSD64 (DoP)
BT IN	Unsupported

5-3 Vol memory

Follow output: Memorizes the volume of each output channel when it was last used. The next time the channel is used, the volume will automatically revert to the volume of its last use. (Default)

Follow input: Memorizes the volume of each input channel when it was last used. The next time the channel is used, the volume will automatically revert to the volume of its last use.

Disabled: Disabled this function.

5-4 PEQ memory

Follow Output: Memorizes the PEQ configuration used the last time for each output channel, and automatically switches to that configuration the next time the same output channel is used. (Default)

Follow Input: Memorizes the PEQ configuration used the last time for each input channel, and automatically switches to that configuration the next time the same input channel is used.

Disabled: Disabled this function.

5-5 Remote

Enabled (Default) , Disabled

5-6 Knob press

Customize the function of the press knob.

Output select (Default) , Home select, Brightness, Dim screen, PEQ select, On/Off trigger, Mute, Input select

5-7 Button A

Customizable function for remote control button A
Output select, Home select, Brightness, Dim screen, PEQ select (Default),
On/Off trigger, Mute, Input select

5-8 Button B

Customizable function for remote control button B
Output select, Home select, Brightness, Dim screen, PEQ select, On/Off trigger
(Default), Mute, Input select

6. Language

English、中文

7. Factory reset

Select factory reset will have a pop-up, select Yes/No (Selected with color),
then press the middle button on the remote or the front-panel knob to confirm.

8. Trouble shooting

If there are problems during use, please find the corresponding solutions through the following links.

<https://www.toppingaudio.com/faq>

Finding Method: Window OS enters the search by pressing Ctrl and F (Mac OS presses the command and F). Then enter the device model to jump to FQA of the device.

If you still have problems or questions, please contact us: service@tpdz.net

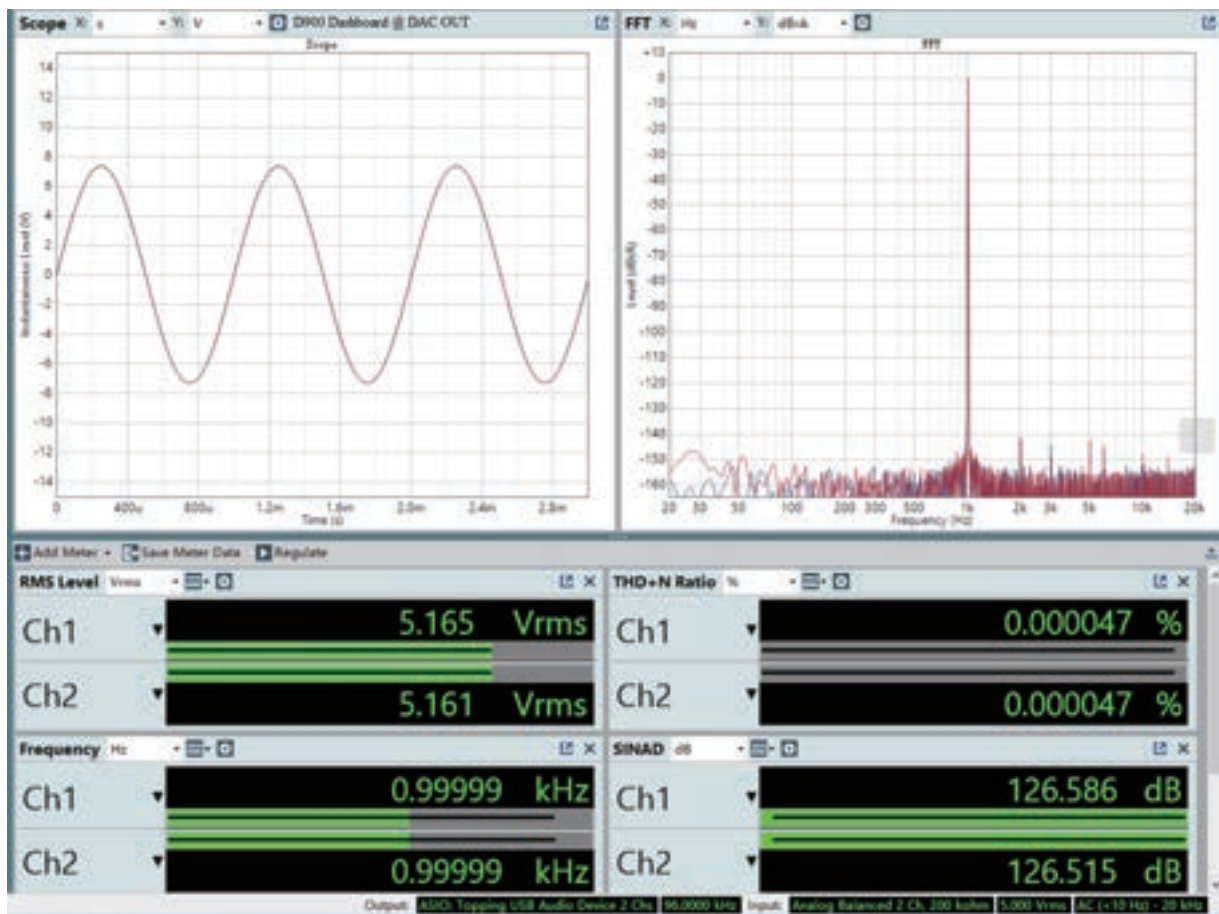
9. Precautions

1. Do not keep the unit in a hot, humid environment or hit the unit strongly.
2. Opening the case instantly voids the warranty!
3. Indoor use only.
4. Topping accepts no liability for any loss or damage arising directly or indirectly from the failure of D900.
5. For improvement purposes, specifications subject to changes without prior notice.

10. Specifications

D900 DAC parameters (LineOut/USB In@96kHz)		
	XLR (Line Out)	XLR (PRE)
THD+N @A-wt	<0.000055% @1kHz	<0.000055% @1kHz
THD @No-wt 45kBw	<0.00015% @20-20kHz	<0.00015% @20-20kHz
SNR @A-wt	131dB @1kHz	131dB @1kHz
Dynamic Range @A-wt	131dB @1kHz	131dB @1kHz
Frequency Response	20Hz-20kHz (±0.3dB)	20Hz-20kHz (±0.3dB)
	20Hz-40kHz (±1.0dB)	20Hz-40kHz (±1.0dB)
Output Level	4.2Vrms @0dBFS (4V Mode)	10.5Vrms @0dBFS (4V Mode)
	5.2Vrms @0dBFS (5V Mode)	13.0Vrms @0dBFS (5V Mode)
Noise @A-wt	<1.5uVrms	<1.6uVrms
Channel Crosstalk	-147dB @1kHz	-147dB @1kHz
Channel Balance	0.3 dB	0.3 dB
Output Impedance	100Ω	100Ω

*Note: The above data is the result of the test in TOPPING laboratory with 5V output mode.



SNR @ DAC OUT

Signal to Noise Ratio

2024/11/29 16:07:48.330

Ch1

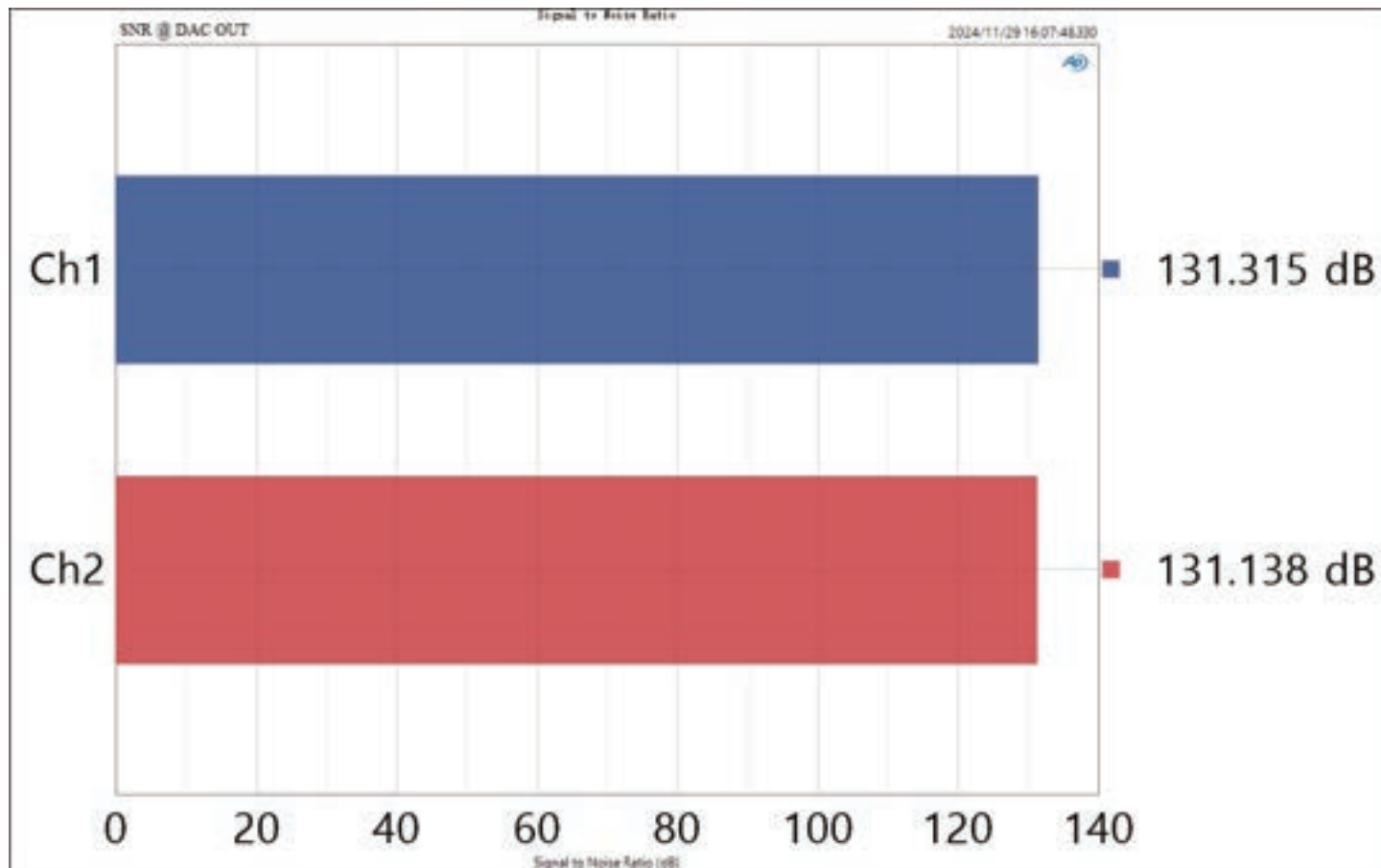
131.315 dB

Ch2

131.138 dB

0 20 40 60 80 100 120 140

Signal to Noise Ratio (dB)



DNK @ DAC OUT

Dynamic Range - ABS17

2024/11/29 16:06:05:07

Ch1

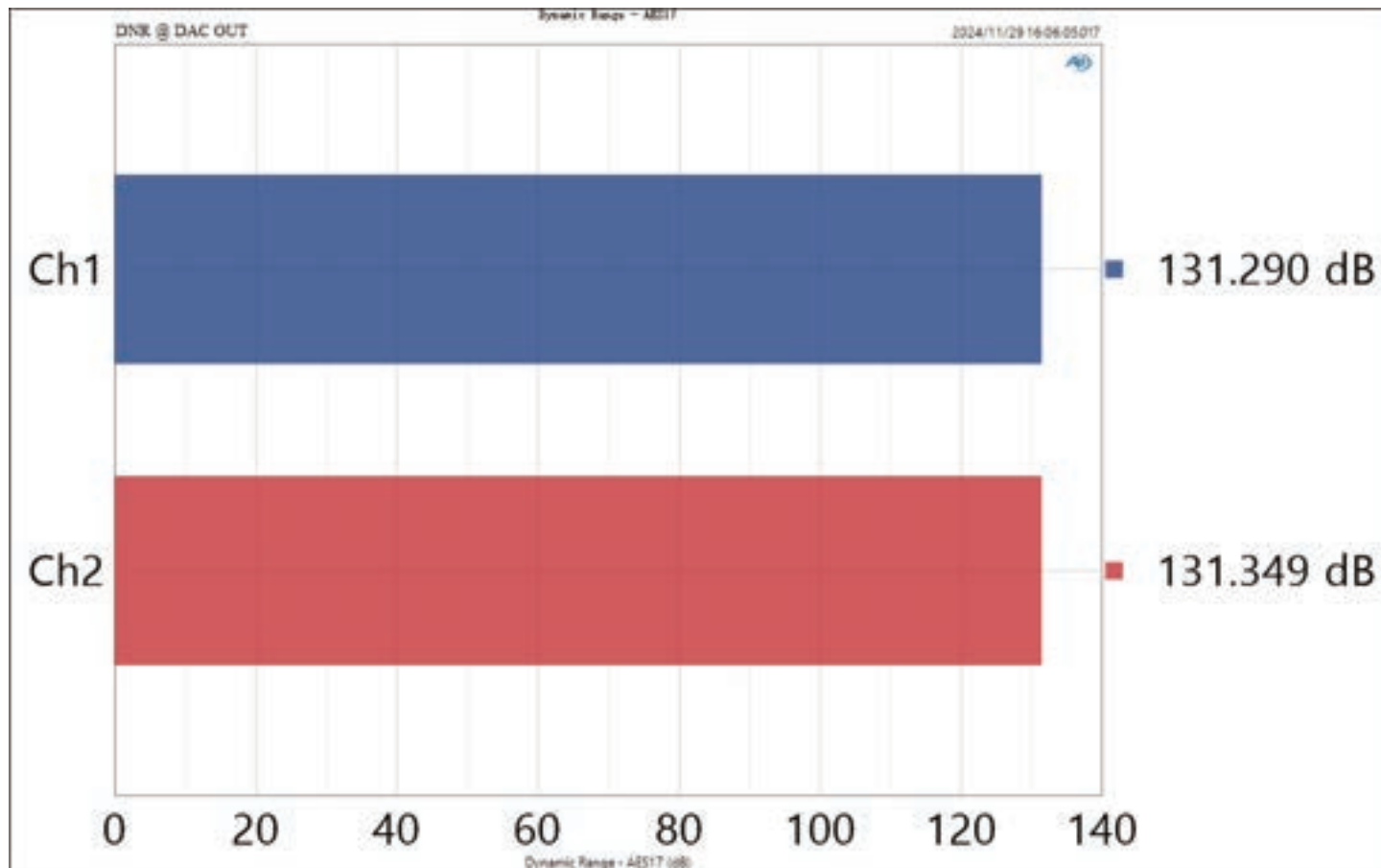
131.290 dB

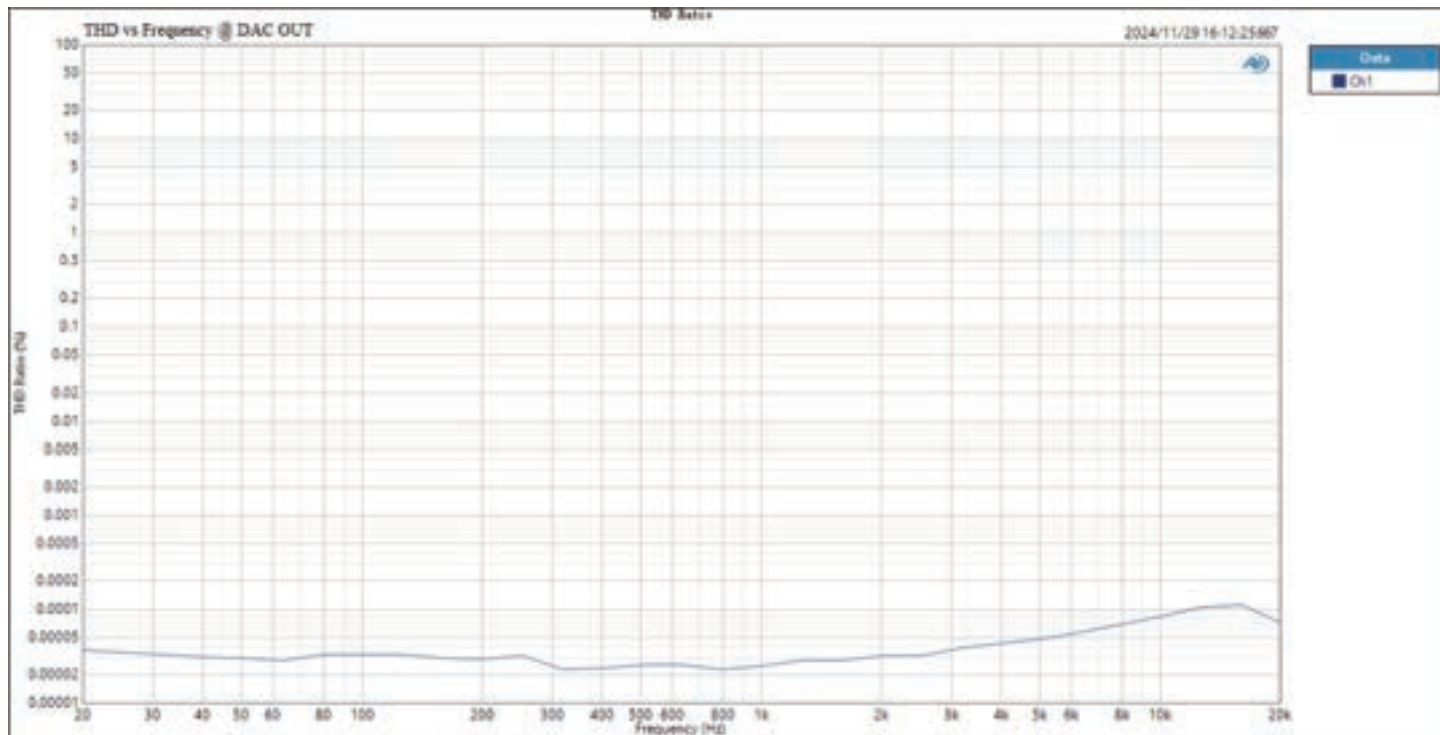
Ch2

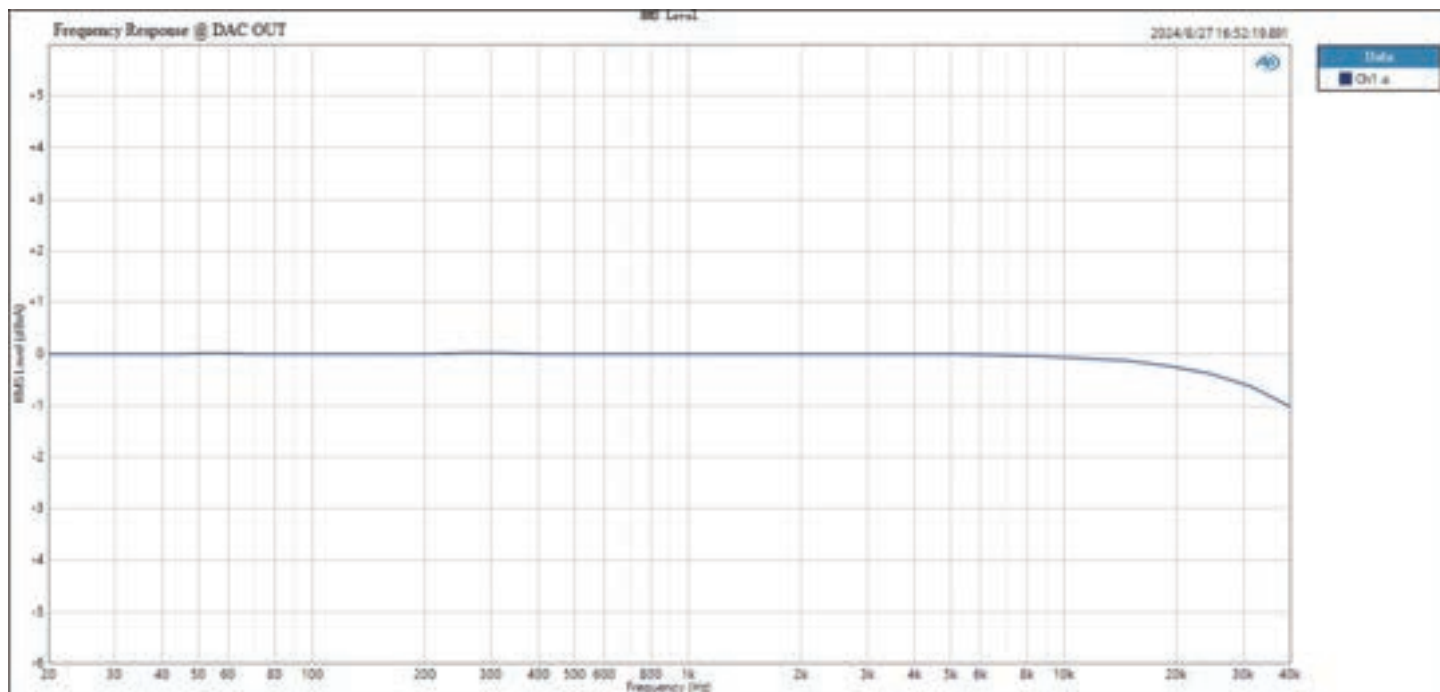
131.349 dB

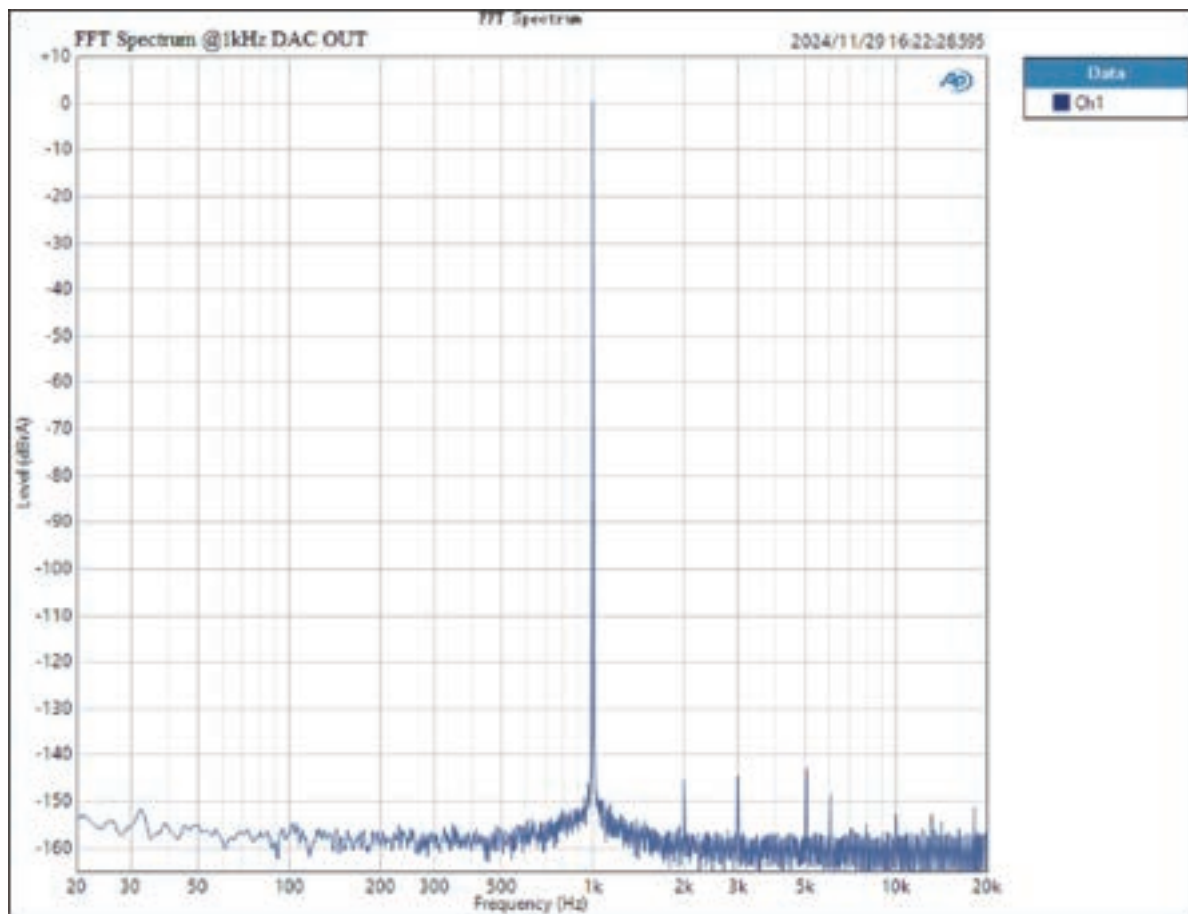
0 20 40 60 80 100 120 140

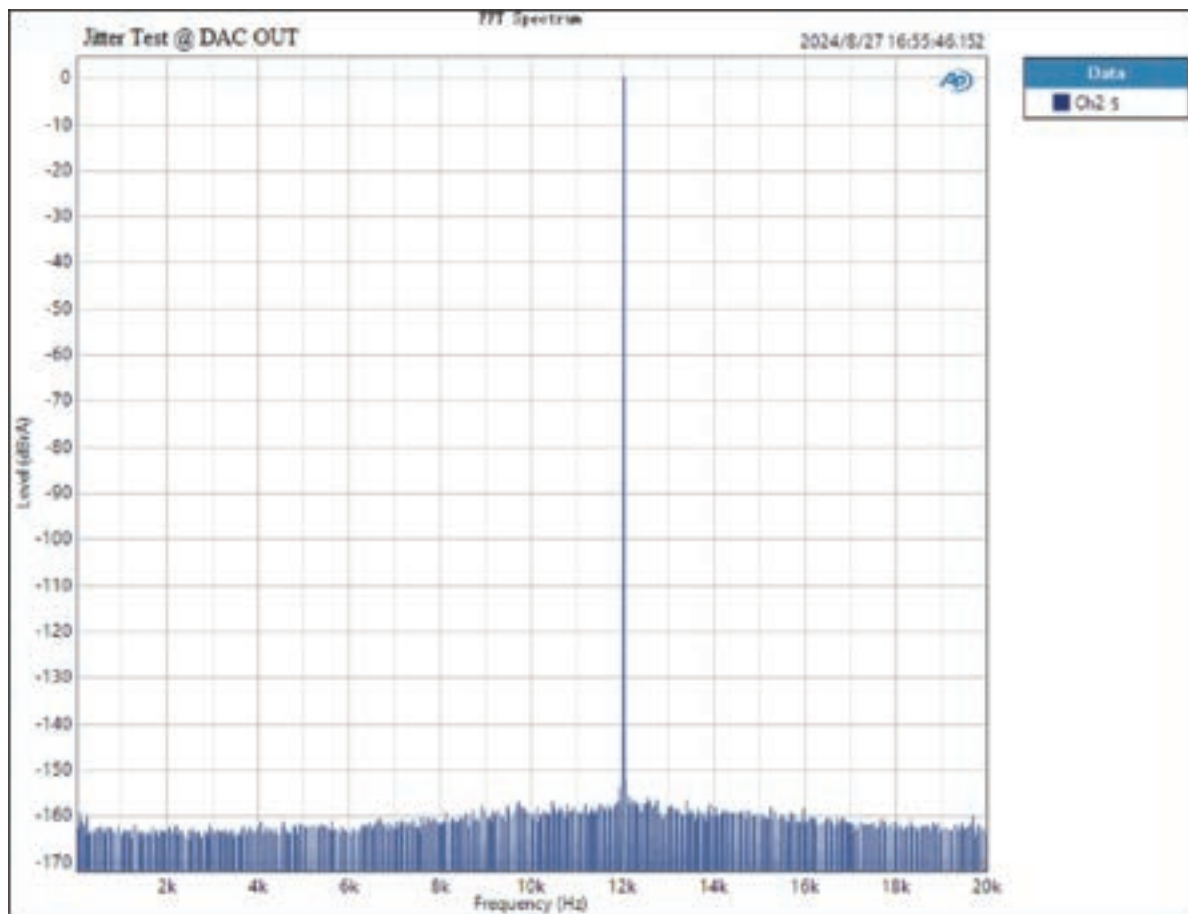
Dynamic Range - ABS17 (dB)

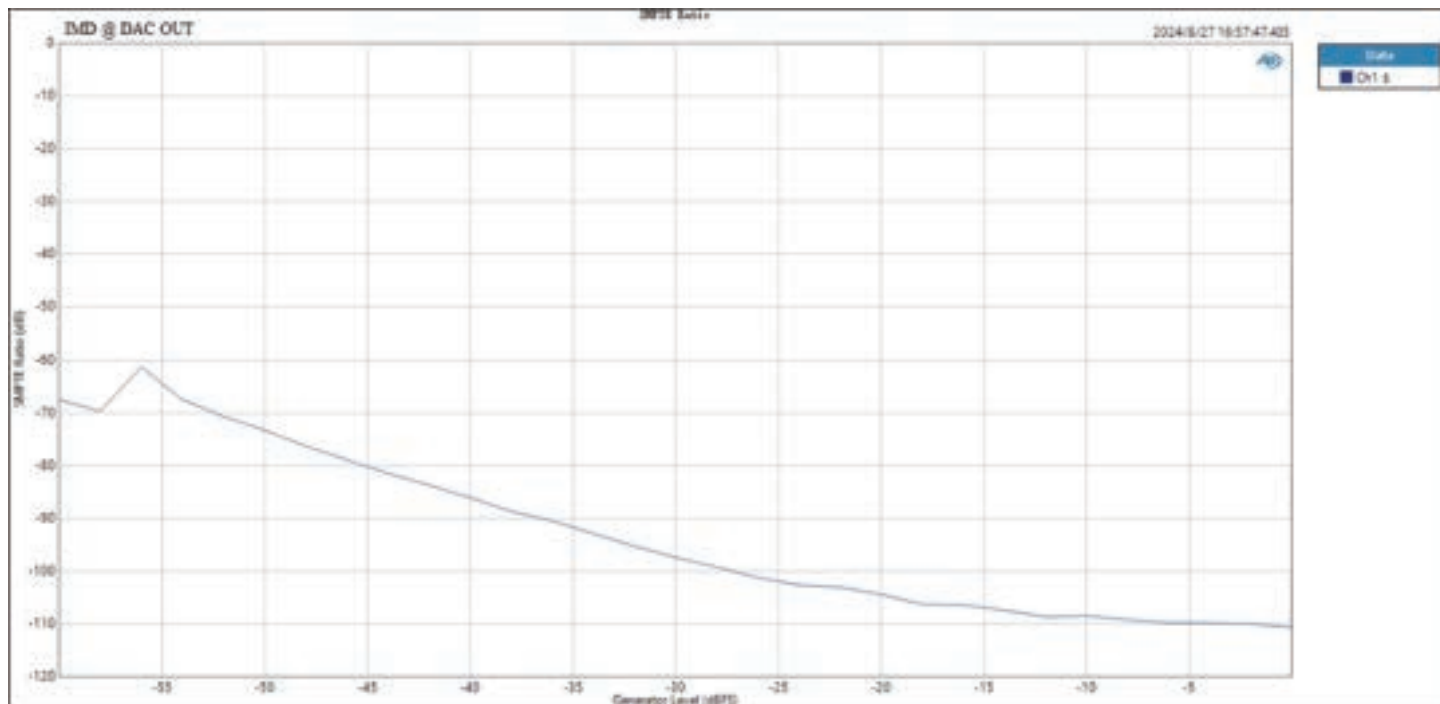


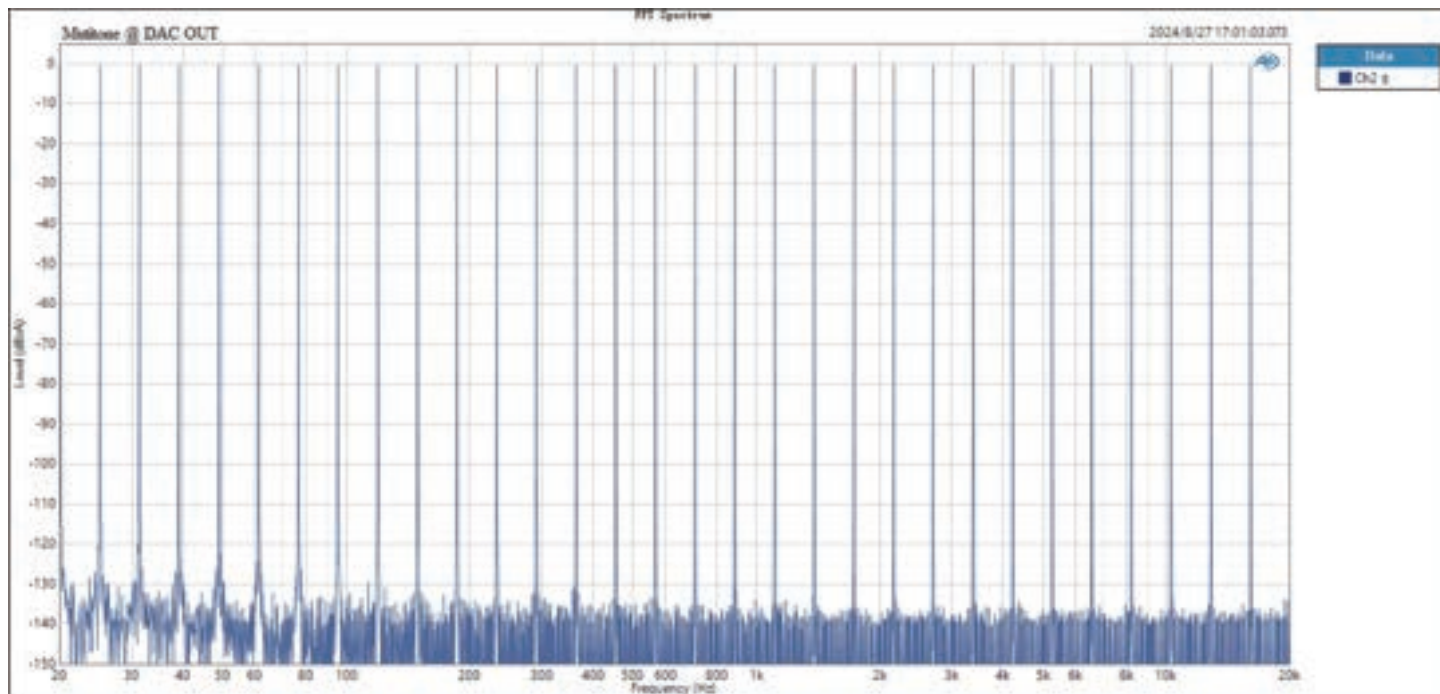


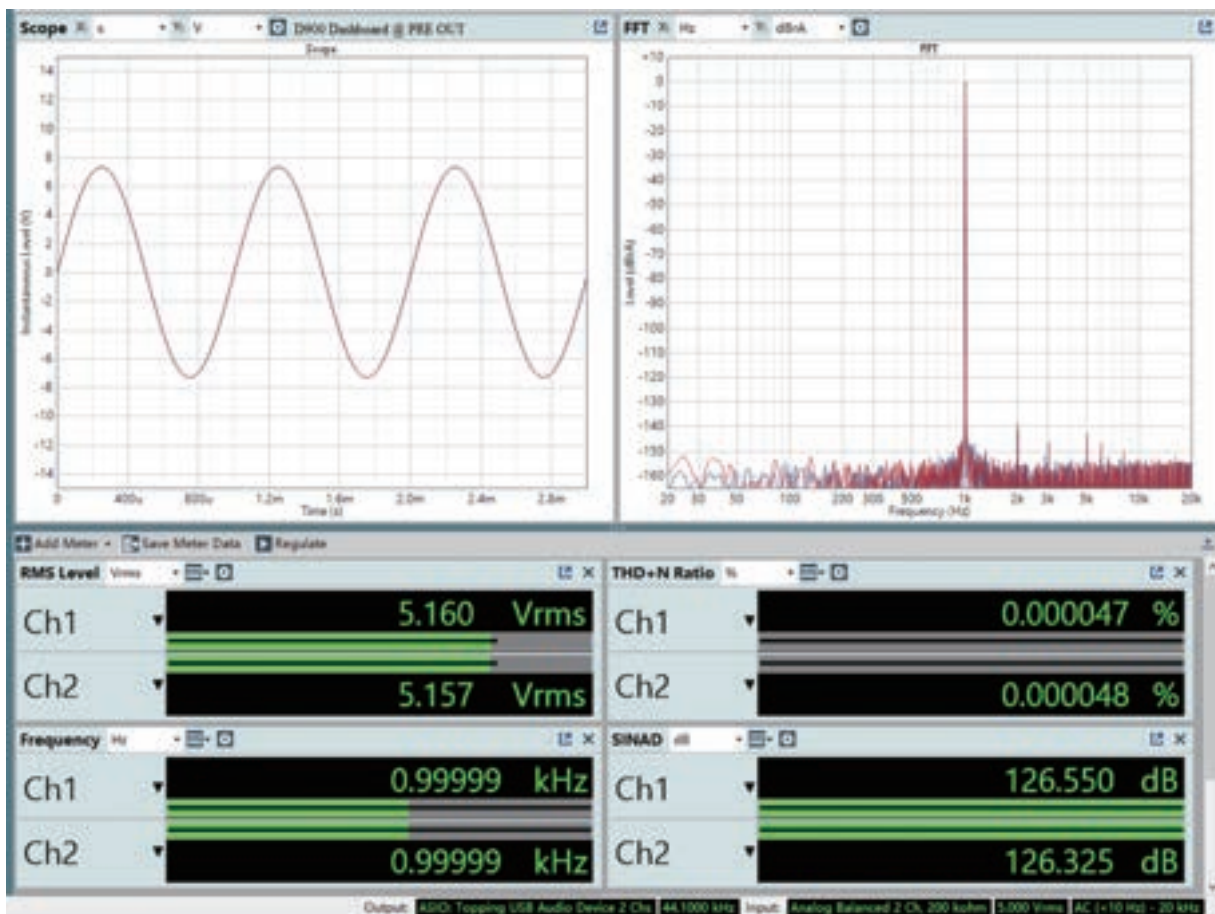








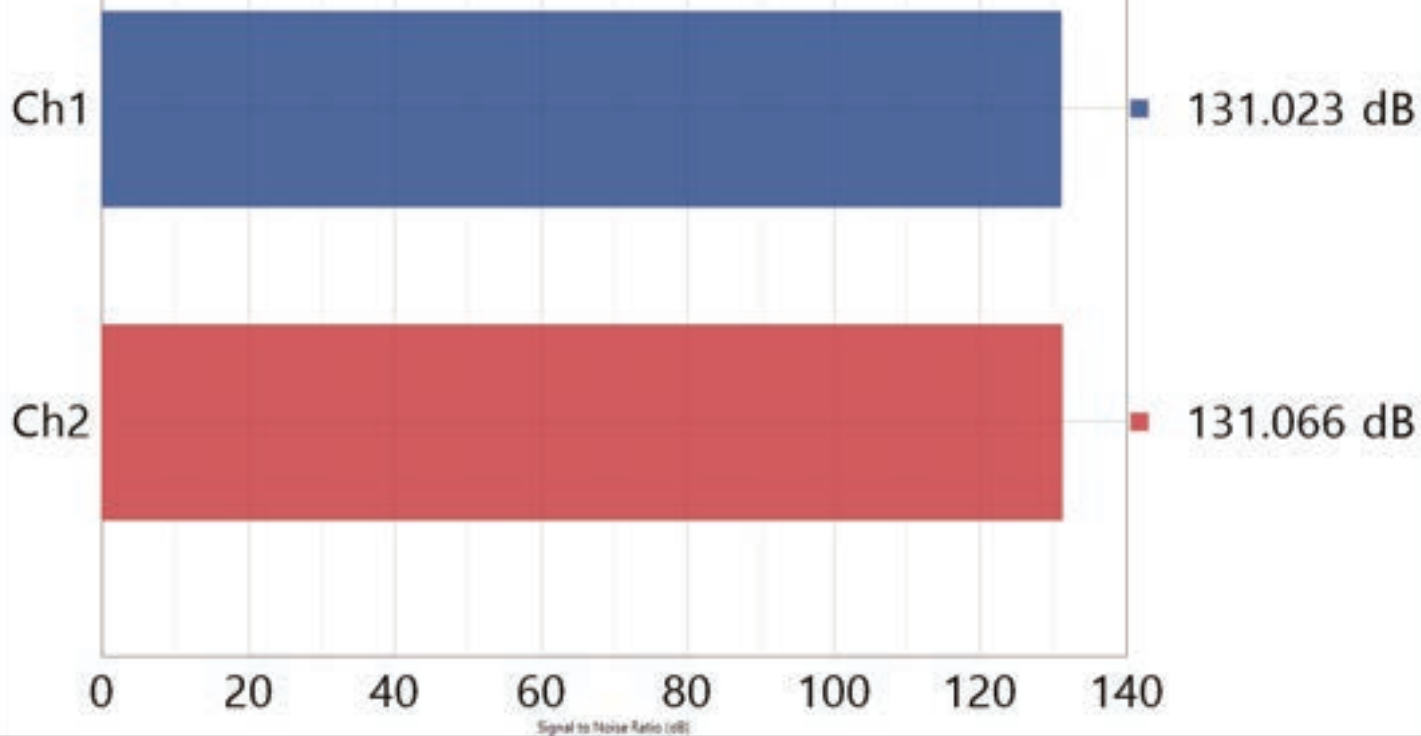




SNR @ PRE OUT

Signal to Noise Ratio

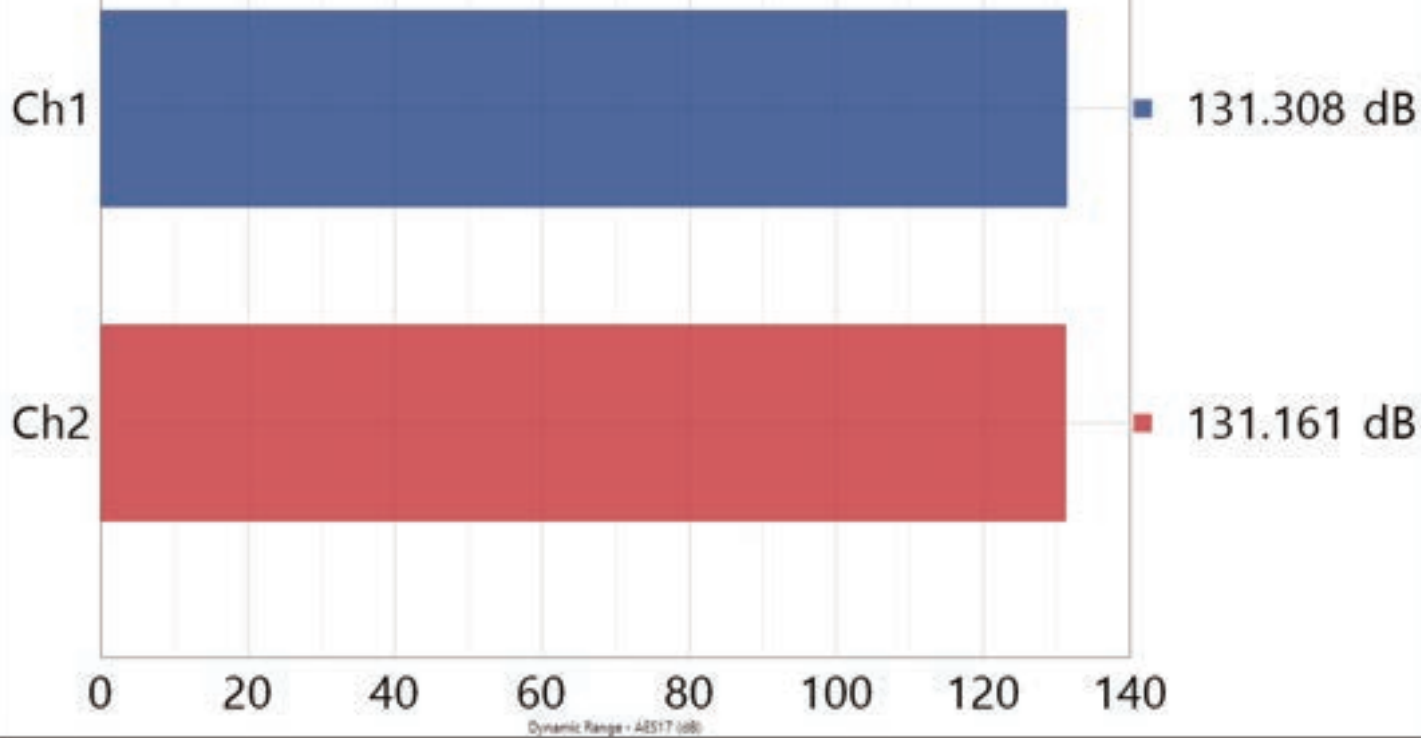
2024/11/29 17:46:44:143



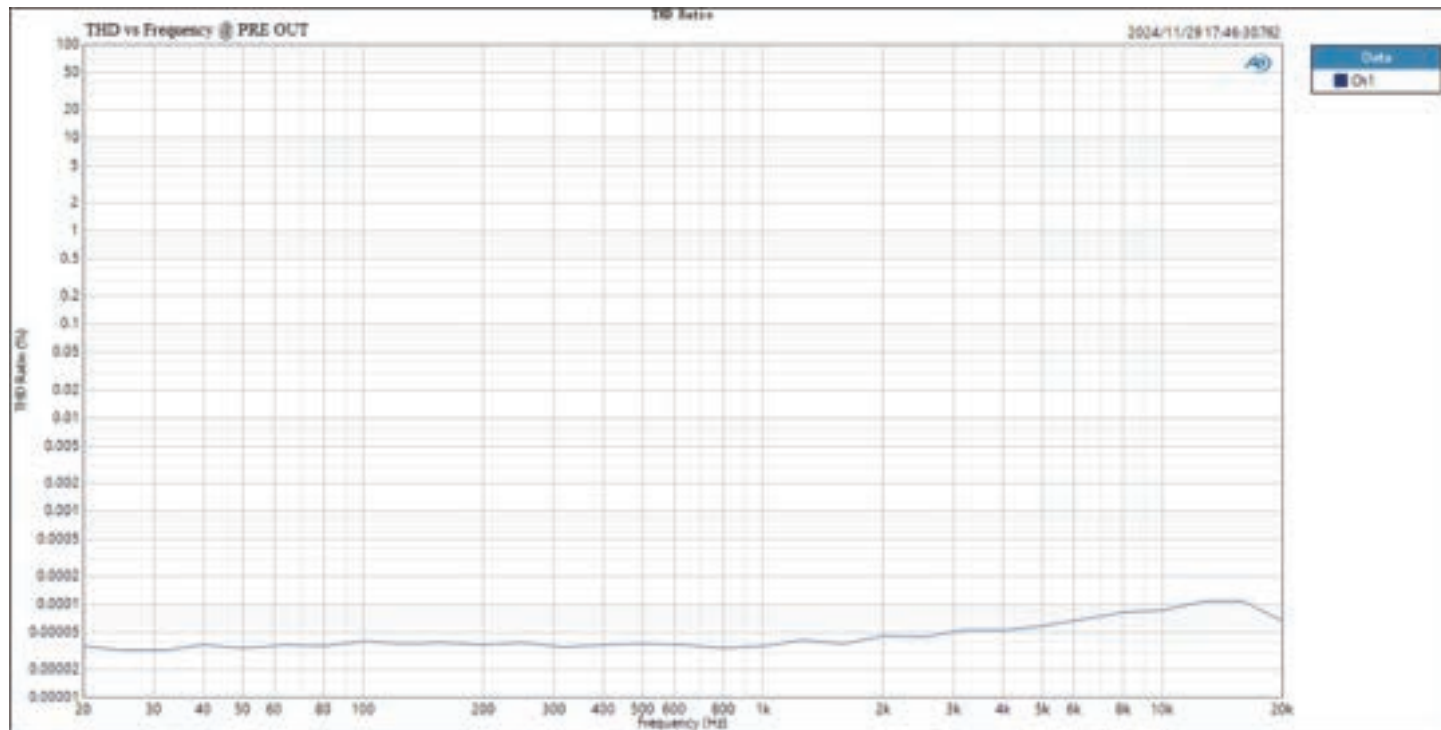
DNR @ PRE OUT

Dynamic Range - ABS17

2024/11/29 17:45:04737



Dynamic Range - ABS17 (dB)



Frequency Response @ PRE OUT

80 Level

2024/8/27 17:44:13.271

