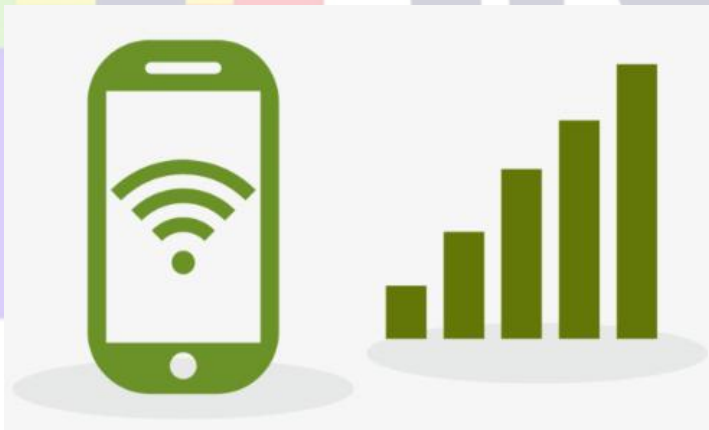
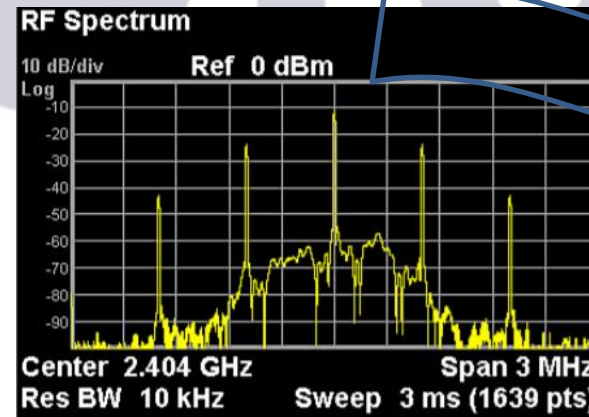
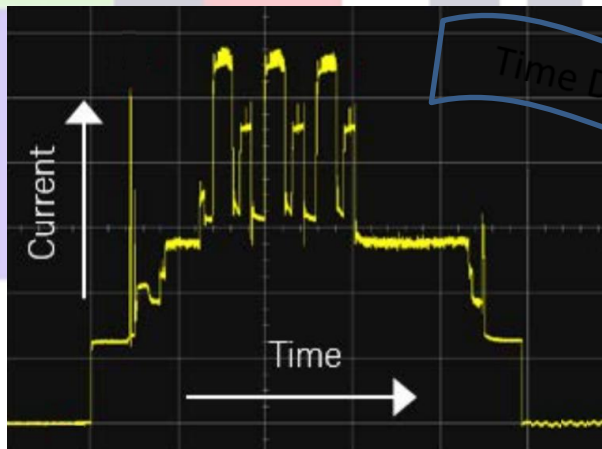
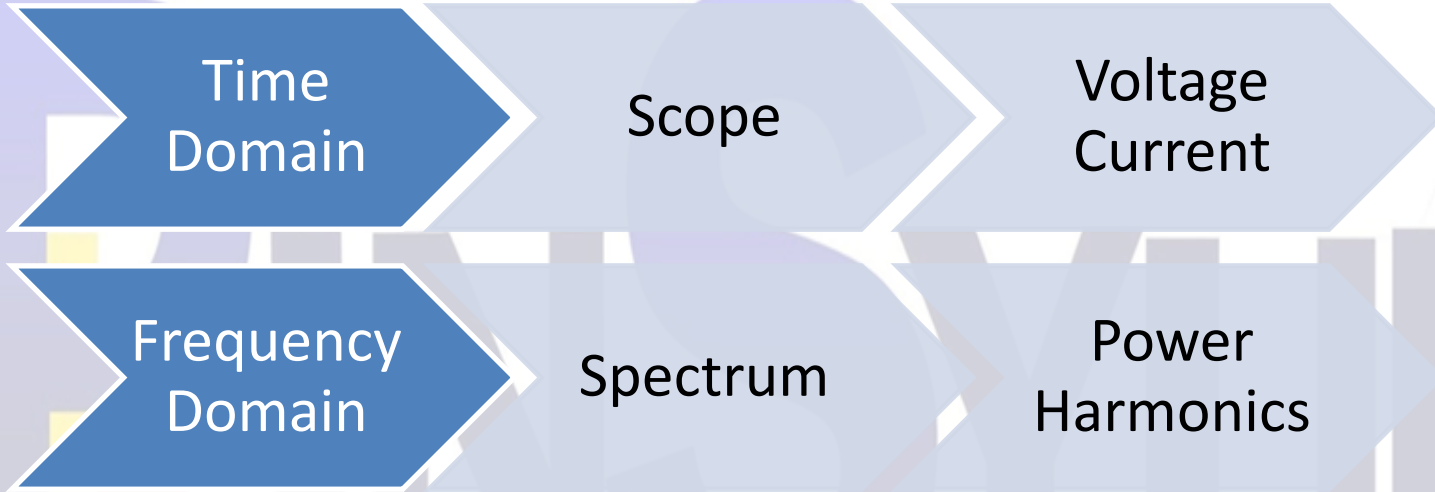
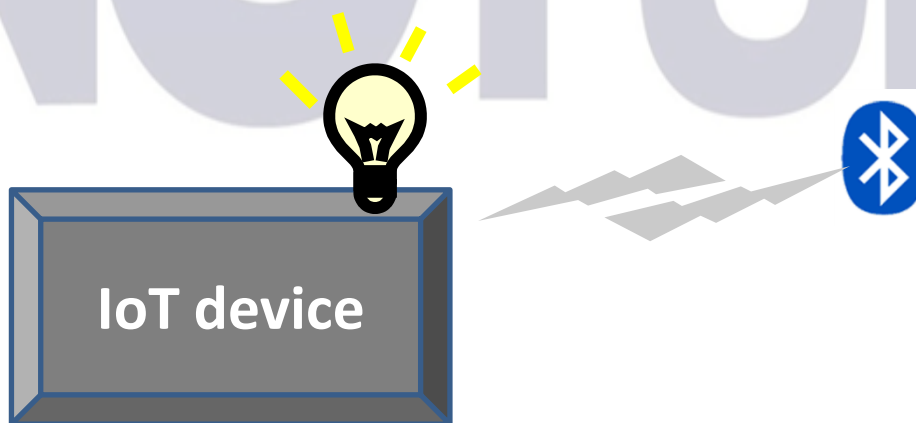


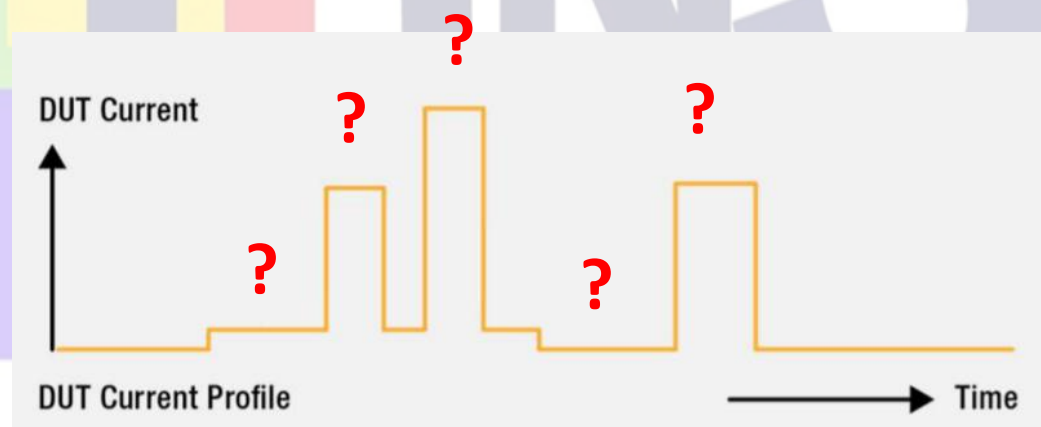
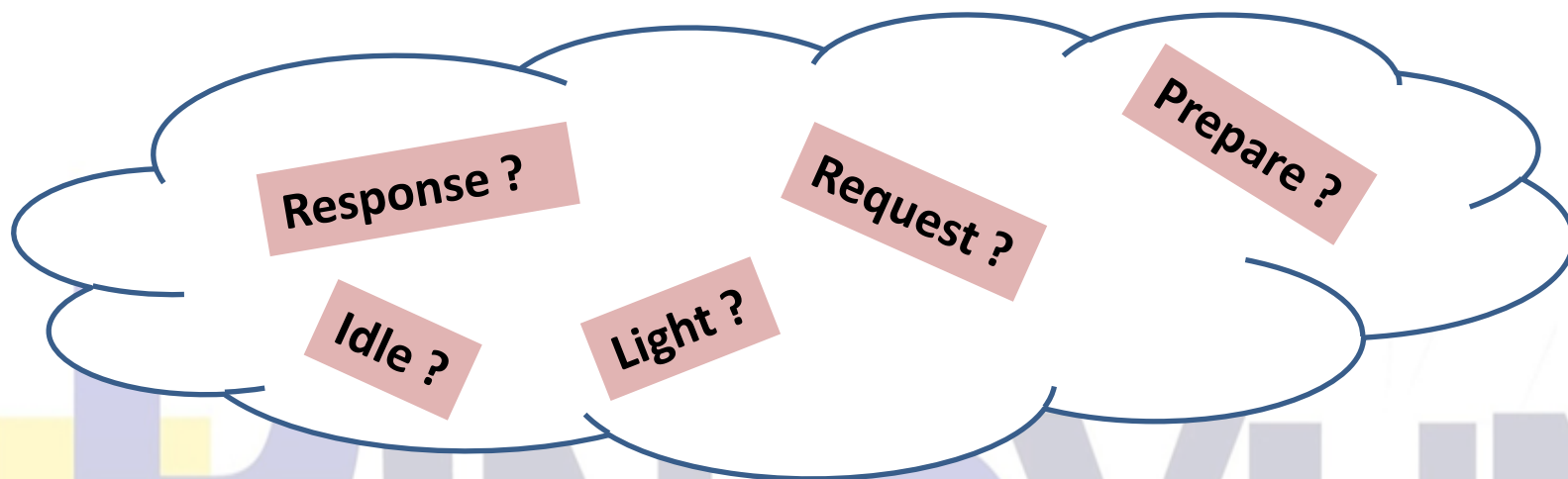
Verify TX power consumption of RF device



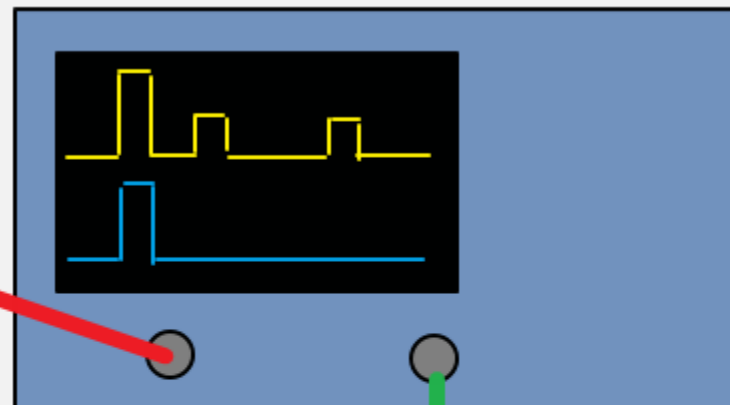
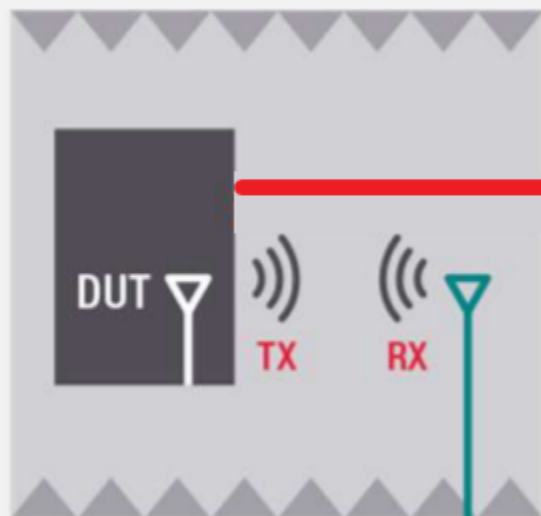
Analysis Solution





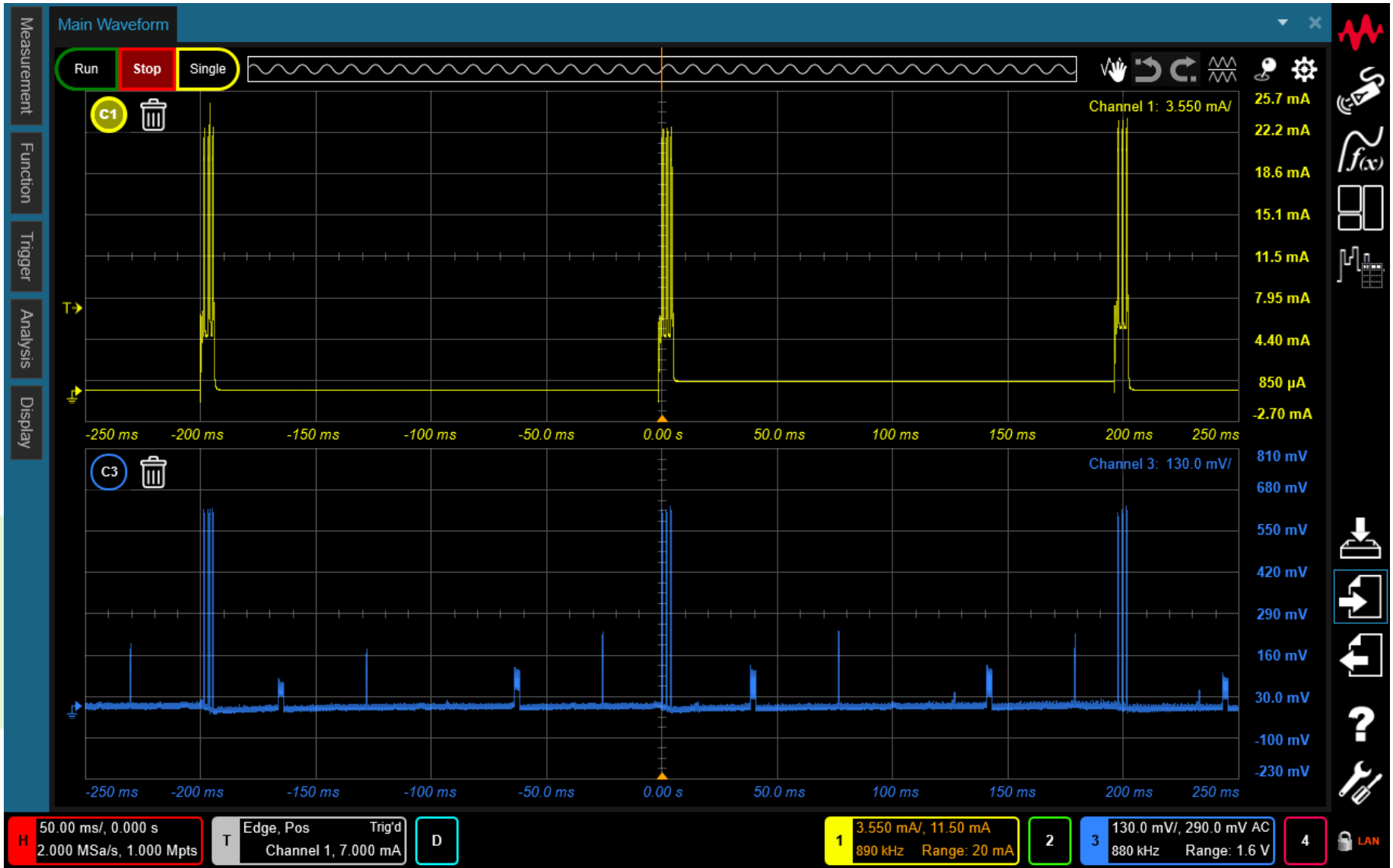


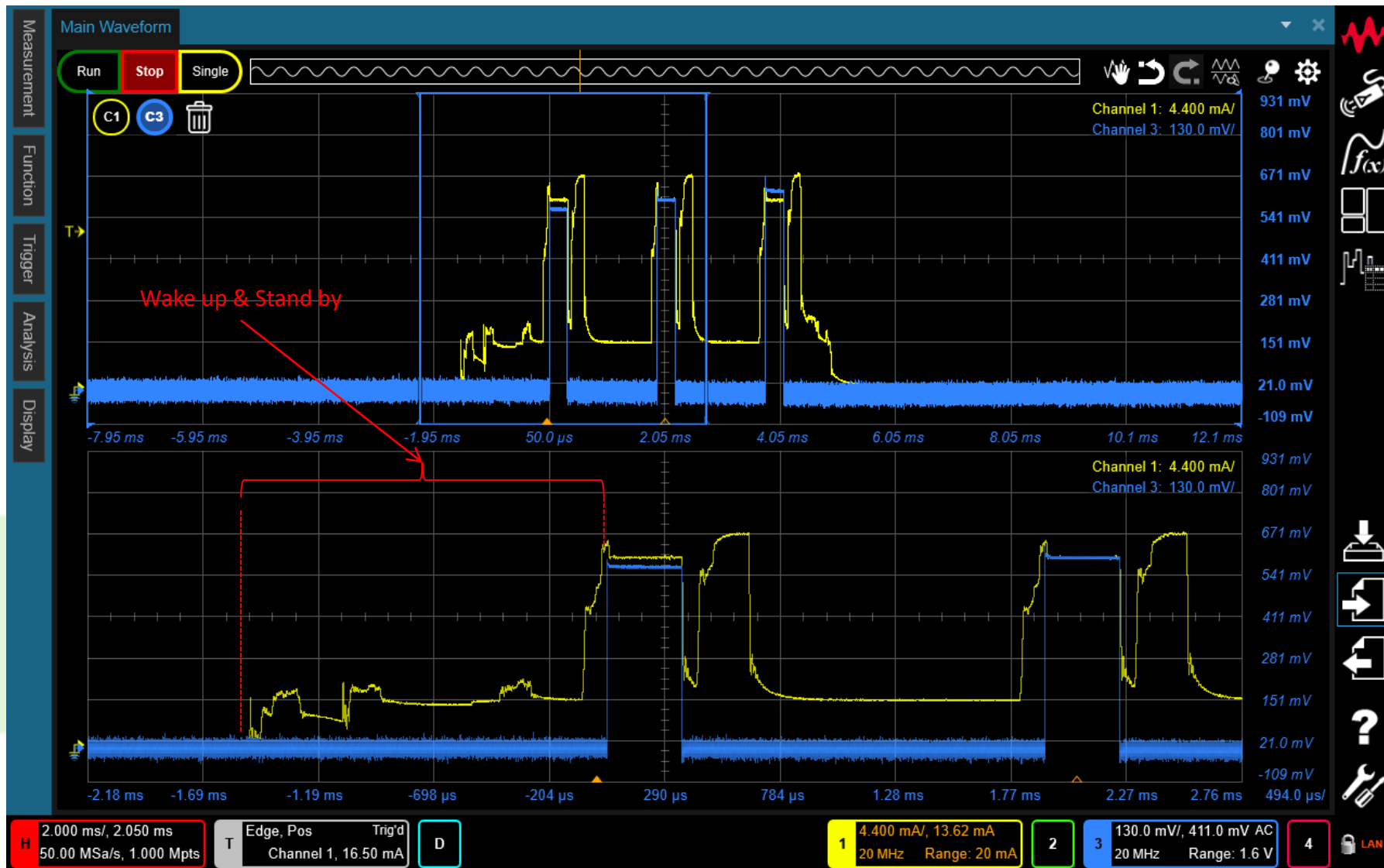
Shielding Box

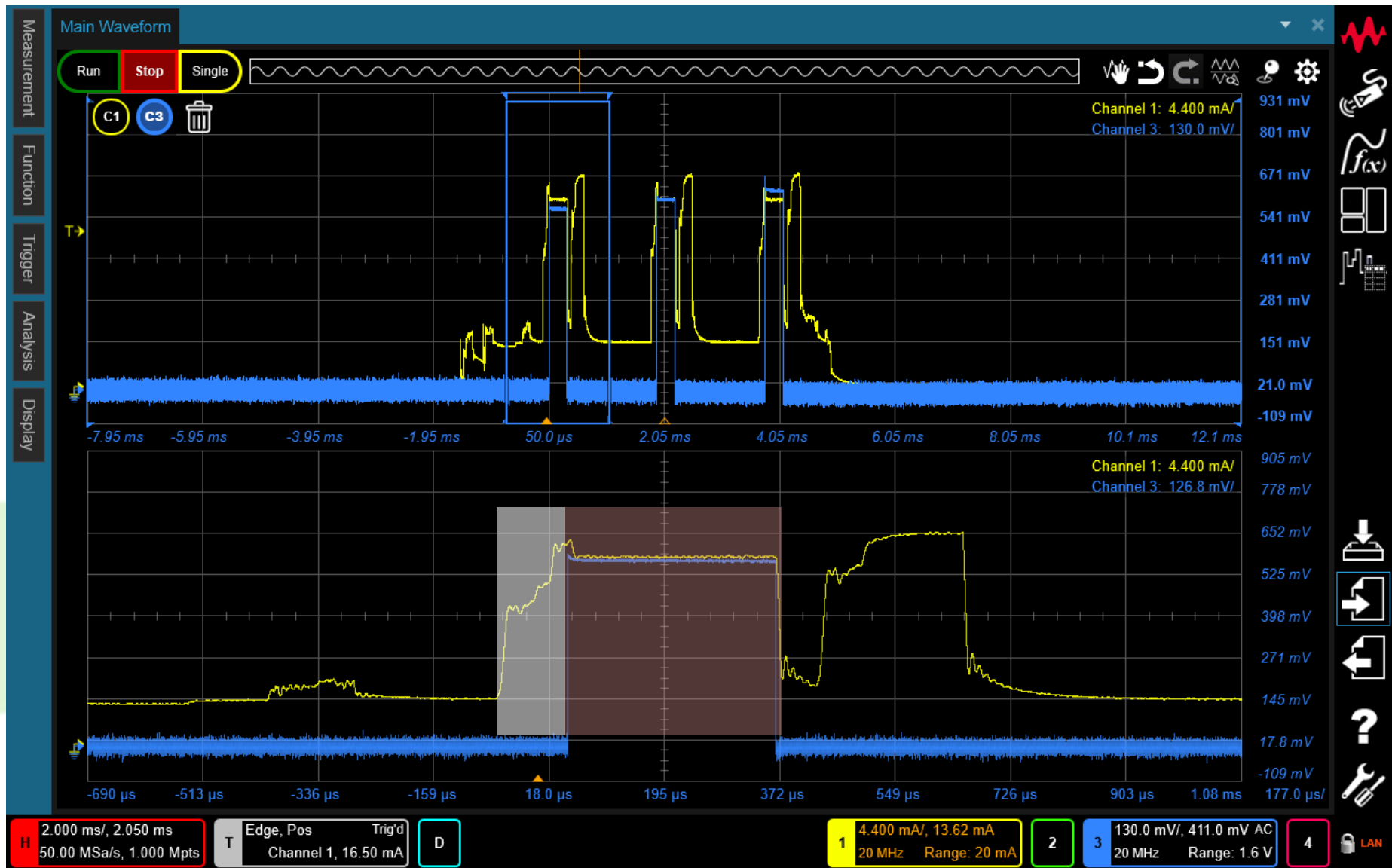


RF events monitoring

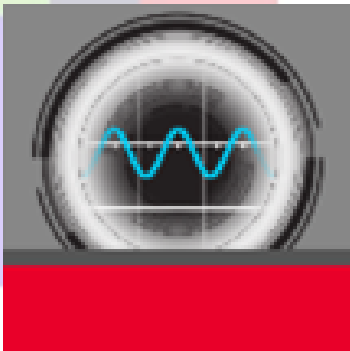
RF Event Detector





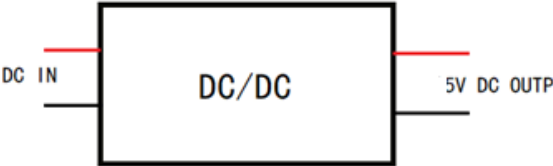


Automatic measurement



Check quality of DC-DC converter

DC IN: 18-36V
DC OUT: 5V



Parameters Set		Measure Result									
Vs Set	Iload Set	Vin (V)	Curr In	Powe Inp	Vout	Curr Load (A)	Power Outp	Eff %	Temperature	Vrms	Vpk-pk
18	0.5										
18	1										
18	2										
18	3										
24	0.5										
24	1										
24	2										
24	3										
36	0.5										
36	1										
36	2										
36	3										

Loop

$3 (Vs) * 4 (Iload) * 10 (measure) = 120 !!$



BenchVue Software

Control. Automate. Simplify.

ALL APPS

 BenchVue Complete Control Collection License for Use: Active Software Support: Expired	 BenchVue Digital Multimeter License for Use: Active Software Support: Expired	 BenchVue Education Control Collection
 BenchVue Electronic Load License for Use: Active Software Support: Expired	 BenchVue Oscilloscope License for Use: Active Software Support: Expired	 BenchVue Power Meter License for Use: Active Software Support: Expired
 BenchVue Power Supply License for Use: Active Software Support: Expired	 BenchVue Spectrum Analyzer License for Use: Active Software Support: Expired	 BenchVue Test Flow
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 BenchVue Network Analyzer License for Use: Active Software Support: Expired	 BenchVue Power Analyzer	 BenchVue Signal Generator License for Use: Active Software Support: Expired
 BenchVue Universal Counter License for Use: Active Software Support: Expired	 BenchVue USB Modular Chassis	 BenchVue USB Modular Data Acquisition License for Use: Active Software Support: Expired

GPIB



USB



LAN

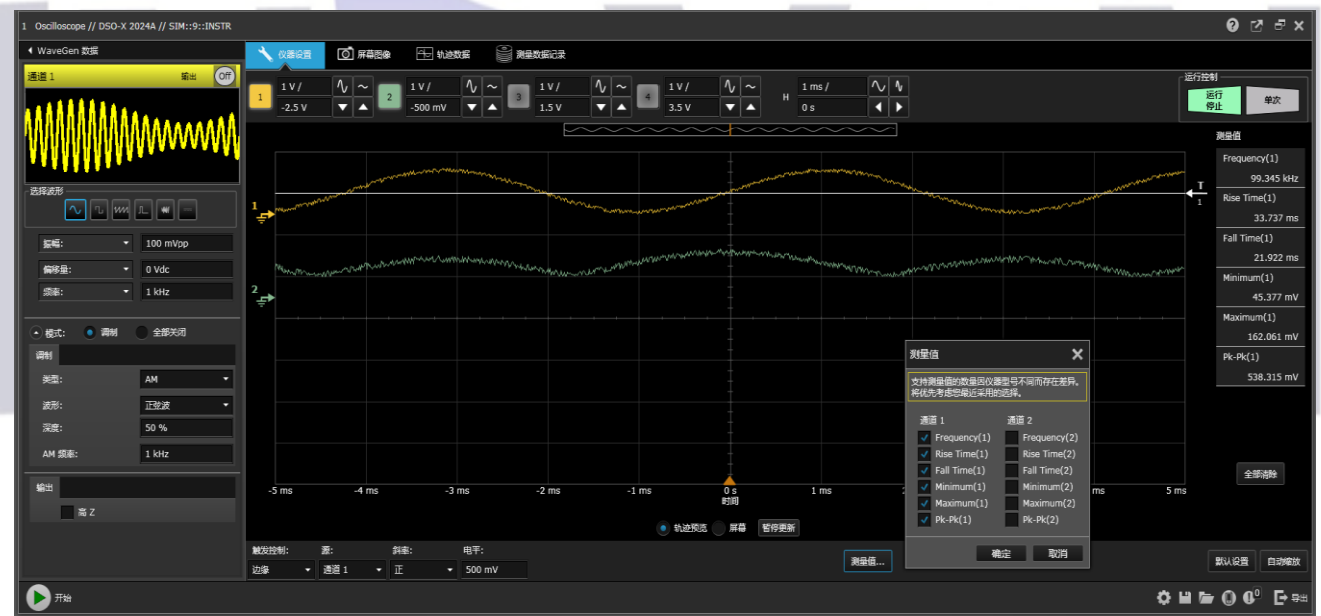
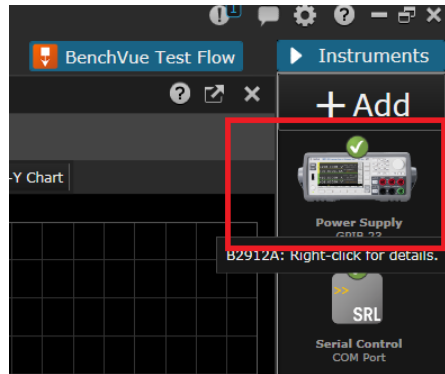


BenchVue Supported Instruments

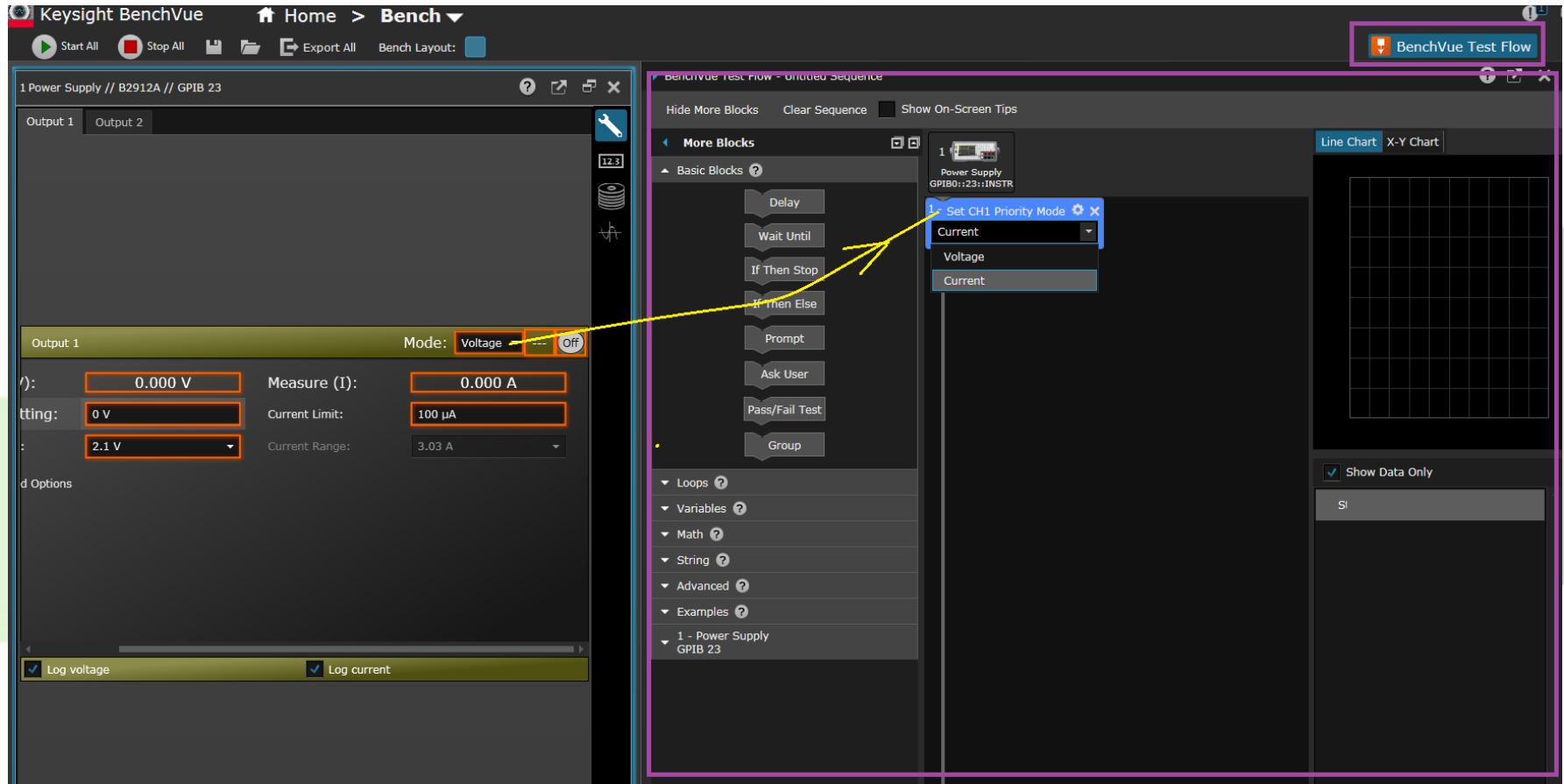


Data acquisition units (4)	Power meters/sensors (33)	Function generators (19)	Power supplies/SMUs (168)	Spectrum/signal analyzers (30)	Oscilloscopes (218)
34970A 34972A DAQ970A 34980A	U2021XA ¹ U2022XA ¹ U2041XA ¹ U2042XA ¹	332x0A (3) 33500 Series¹ (10) 33600 Series¹ (4)	B2900 Series ¹ (4) B2961A/62A ¹ E3600 Series (14) E36100 Series ¹ (10) E36300 Series ¹ (4) N5700 Series ¹ (24) N6700A/B/C ¹ N6701A/C ¹ N6702A/C ¹ N6705A/B/C ¹ N6785A ¹ N6786A ¹ N6900 Series ¹ (12) N7900 Series ¹ (12) N8700 Series ¹ (21) N8900 Series ¹ (36) RP7900 Series (17)	X-Series N9040B UXA N9030A/B PXA N9020A/B MXA N9010A/B EXA N9000A/B CXA M9290A CXA HSA N934xC (3) ESA E440xB (4) PSA E444x (6) BSA N932xB/C (2)	1000-X Series ¹ (4) 2000-X Series ¹ (12) 3000-X Series ¹ (18) 3000T Series ¹ (20) 4000-X Series ¹ (16) 5000 (5) 6000A Series (16) 6000L Series (3) 6000-X Series ¹ (4) 7000 Series (28) 9000 Series (8) 90000 (6) 90000 Q-Series (5) 90000 X-Series (12) 90000 DSA Series (16) P924xA Series (3) S Series (14) V Series (18) Z Series (10)
Digital multimeters (10) 34401A, 34405A, 34410A, 34411A, 34420A ¹ , 34450A ¹ , 34460A ¹ , 34461A ¹ , 34465A ¹ , 34470A ¹	U2043XA ¹ U2044XA ¹ U2049XA LAN ¹ U2000 Series ¹ (9) U2053/63 Series ¹ L2050/60 Series ¹ (6) U848x Series ¹ (4) N191xA ¹ (4) N8262A ¹	Power analyzers (2) PA2201A PA2203A Signal generators (14) E4428C E4438C E8257D E8267D E8663D EXG X-Series N517xB (3) MXG X-Series N518xB (3) N518xA (3)		Electronic loads (4) N3300A ¹ N3301A ¹ 6060B 6063B	
Network analyzers (45) ENA E50xxA/B/C (5) PNA N522xA/B (10) PNA-L N523A/B/C (11) PNA-X N524xA/B (12) PXI VNAs M937xA (6) PXIe multiport VNA M9485A					
	Current Analyzers (2) CX3322A CX3324A				
USB modular devices (21) U2300 Series ¹ U2500 Series ¹ U2600 Series ¹ U2700 Series ¹	LCR Meters (2) E4980A E4980AL			FieldFox analyzers (22) N9912A-N9918A (6) N9923A-N9928A (4) N9935A-N9938A (4) N9950A-N9952A (3) N9960A-N9962A (3)	Counters (3) 53210A ¹ 53220A ¹ 53230A ¹

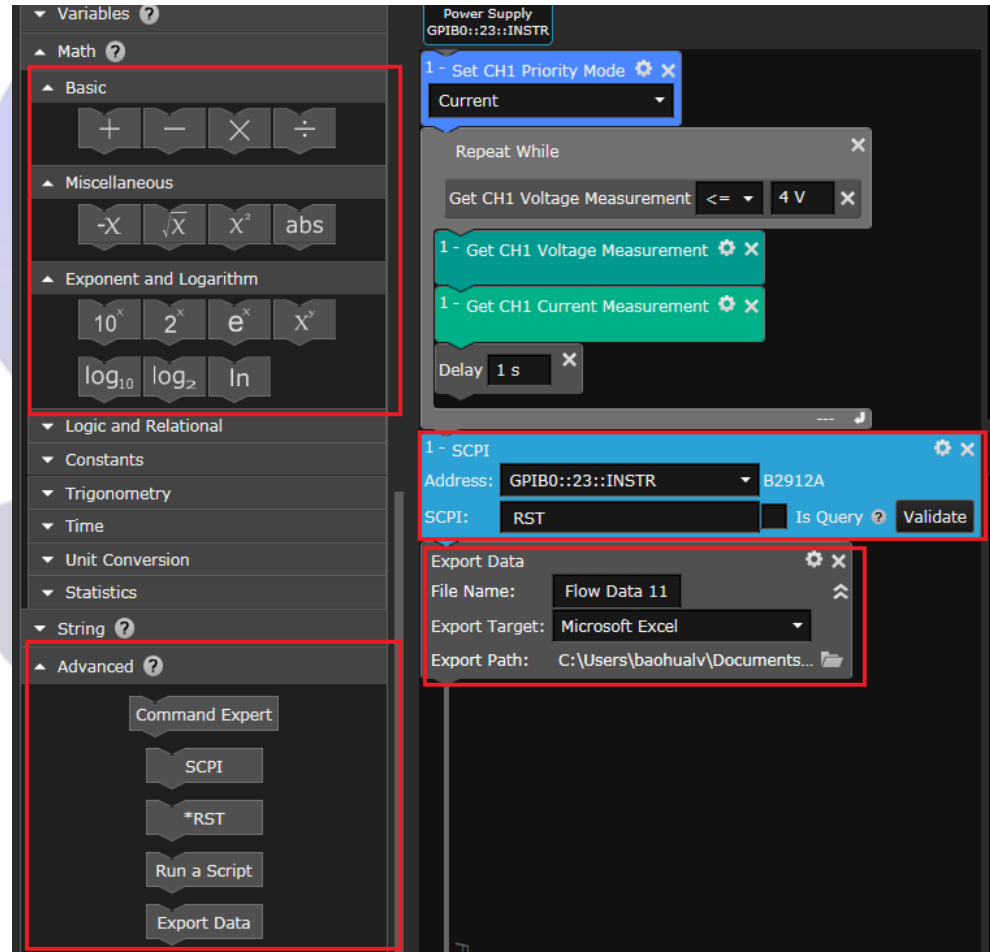
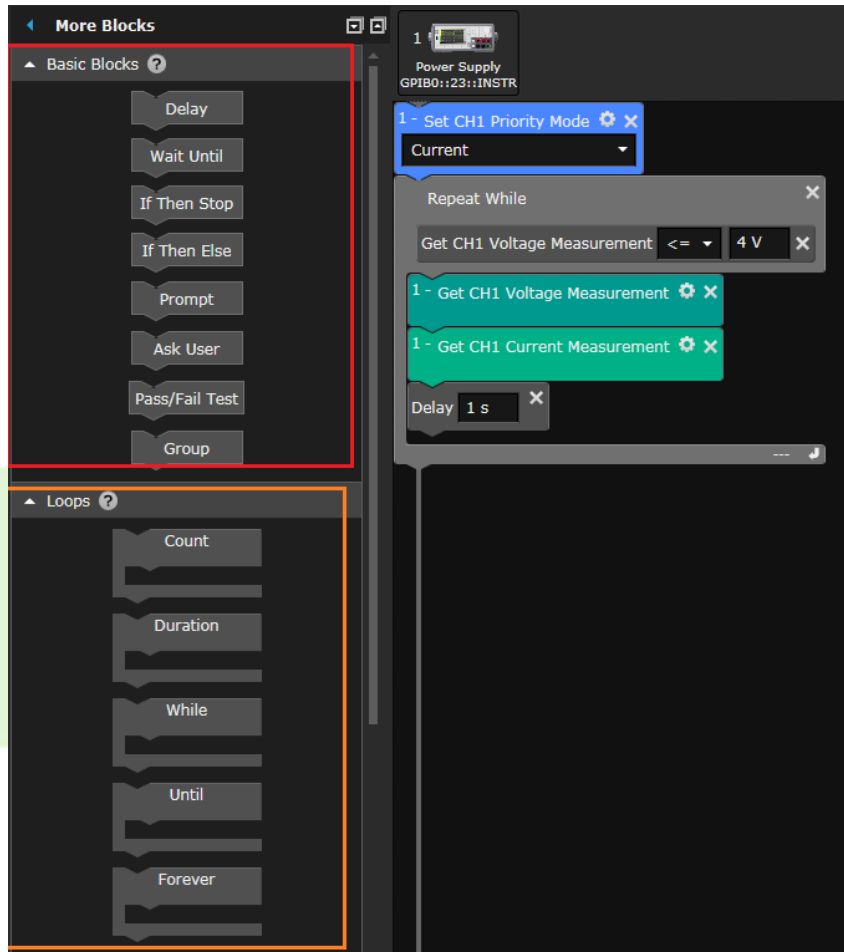
Easy connection and control



Test Flow- easy setting

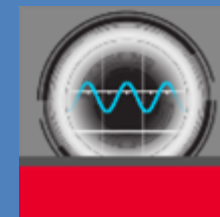
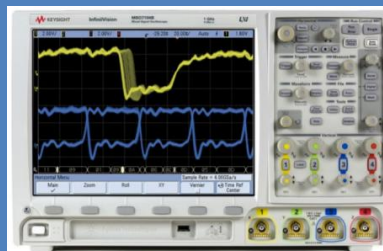
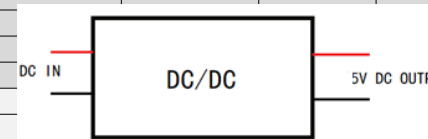


Test Flow- advance function



Get DC-DC measurement

Parameters Set		Measure Result									
Vs Set	Iload Set	Vin (V)	Curr In	Powe Inp	Vout	Curr Load (A)	Power Outp	Eff %	Temperature	Vrms	Vpk-pk
18	0.5										
18	1										
18	2										
18	3										
24	0.5										
24	1										
24	2										
24	3										
36	0.5										
36	1										
36	2										
36	3										



Setup DC-DC measurement

1 - 设置 CH1 开启/关闭
● 开启 ● 关闭

2 - 设置 通道 1 开启/关闭
● 开启 ● 关闭

3 - 设置 CH1 开启/关闭
● 开启 ● 关闭

3 - 设置 CH1 操作模式
CC

1 - Vin
5 V, 12 V, 18 V, 编辑...

3 - Iout
From: 500 mA To: 2 A By: 500 mA

延迟 100 ms

1 - Iin
341.662 mA

4 - Vout
1.8459311 Vdc

3 - Pout
0 W

2 - 命令: 单次

2 - Vpk-pk
431.111 mV

设置
Pin = 1 - 获取 CH1 电压测量 995.834 mV × 1 - 获取 CH1 电流测量 356.41 mA
354.925 m

设置
Eff = Pin ÷ 3 - 获取 CH1 功率测量 0 W
+无限值

已运行 4 个循环/共 4 个循环

已运行 3 个循环/共 3 个循环

1 - 设置 CH1 开启/关闭
● 开启 ● 关闭

3 - 设置 CH1 开启/关闭
● 开启 ● 关闭

Set Power list

Set Load Sweep

输入变量名:
变量
符号 确定 取消
Eff
Pin
设置
输出

数学
高级
示例
1 - Power Supply Pro
SIM::6::INSTR

4 - Vout
1.9888393 Vdc

3 - Pout
0 W

2 - 命令: 单次

2 - Vpk-pk
-77.947 mV

设置
Pin = 1 - 获取 CH1 电压测量 995.834 mV × 1 - 获取 CH1 电流测量 356.41 mA
354.925 m

设置
Eff = Pin ÷ 3 - 获取 CH1 功率测量 0 W
+无限值

Auto calculate: $Eff = Pout / Pin$

Measurement Report

Excel spreadsheet showing measurement data and a screenshot of the BenchVue software interface.

Excel Spreadsheet Data:

	A	B	C	D	E	F	G
1	序列中的仪器	1 - N8762A - SIM::6::INSTR					
2	序列中的仪器	2 - DSO-X 2024A - SIM::9::INSTR					
3	序列中的仪器	3 - N3300A - SIM::5::INSTR					
4	序列中的仪器	4 - 34470A - SIM::8::INSTR					
5							
6	Start Time	31:51.2					
7	Stop Time	31:57.8					
8							
9	Time	Step	Voltage Set	Current Set	Current Measurement	Measurement Value (V)	Power Measurement
10	31:52.9	1	5	0.5	0.01	0.419434869	0
11	31:53.3	2	5	1	0.11	0.675352352	0
12	31:53.7	3	5	1.5	0.151421356	1.123224126	0
13	31:54.1	4	5	2	0.183205081	0.181700137	0
14	31:54.6	5	12	0.5	0.21	1.432130438	0
15	31:55.0	6	12	1	0.233606798	1.880002212	0
16	31:55.5	7	12	1.5	0.254948974	0.519828276	0
17	31:55.9	8	12	2	0.274575131	0.96770005	0
18	31:56.5	9	18	0.5	0.292842712	0.962180512	0
19	31:56.9	10	18	1	0.31	0.631260759	0
20	31:57.3	11	18	1.5	0.326227766	0.276574006	0
21	31:57.8	12	18	2	0.341662479	1.335050016	0
22							

BenchVue 测试流数据 (Screenshot):

屏幕快照

BenchVue 测试流数据

MATLAB Microsoft Excel Microsoft Word **CSV**

将数据导出到 CSV 文件。



Thanks for your attention!!

新產品推廣！LoRa / IoT好夥伴！

CXG — 品質可靠，值得信賴

- 採用了與 X 系列中高端產品一致的軟硬件設計體系 EXG
- 為通用市場和前沿 IoT 市場優化了配置
- SCPI 編程代碼與所有 Agilent/Keysight 信號源產品兼容



作為一款經濟型、高性價比的射頻矢量信號源，[N5166B CXG](#)也是 X- 系列信號源產品線的入門級產品，主要覆蓋通用測試、模塊功能驗證、整機測試以及小規模製造等長尾市場。

預約以下機型之介紹，即可獲得摺疊旅行袋
下單還送全新六位半電錶或國際牌音波電動牙刷！！

活動機型：



新推出！USB 示波器/VNA



元件電流波型分析儀



ENA 網路分析儀



新推出！CXG 信號產生器



資料擷取系統/電錶類



3 通道/雙通道電源供應器