



Ref No.:240321-01

The world's best heat-resistant ferrofluid for Inert gases											
Company	Model No	Gauss/cP at 27°C	Carrier fluid	Usage environment	Temp./°C	50°C	100°C	150°C	200°C	250°C	290°C
MAGRON	MFS-4005	400/500	Silicon	inert gas	Weight loss/%	0.000	-0.186	-0.440	-1.101	-4.753	-14.377
MAGRON	MFS-6022 (MFS-630)	600/2200	Silicon			-0.194	-0.436	-0.451	-1.039	-8.055	-25.868
MAGRON	MFH-5002 (MFH-503)	500/210	Hydrocarbon			-0.363	-0.195	-0.633	-2.524	-11.284	-29.115

weight loss /% (°C)		
-1%	-2%	-5%
196	220	251
199	214	236
168	192	222

**Reference---Comparative data from other companies (참고 ---타사 비교자료)

M*** (Japan)	MFA-06	580/300	alkyl naphthalene	inert gas	Weight loss/%	-0.026	-0.403	-1.027	-2.295	-8.237	-23.242
L*** (England)	H9LT	400/300	Hydrocarbon			-0.024	-0.225	-0.604	-1.367	-5.290	-18.063

148	192	232
184	216	248

***Measurement method: TGA measurement---Temperature rises by 10 degrees Celsius per minute (측정방법: TGA측정---1분당 10°C씩 승온함)

TGA: Thermo Gravimetric Analysis

TGA measures the weight change of the sample according to temperature while performing simultaneous thermal analysis.
In other words, you can know the amount of vaporization, evaporation, and oxidation according to the temperature.
You can estimate the temperature available at high temperatures.

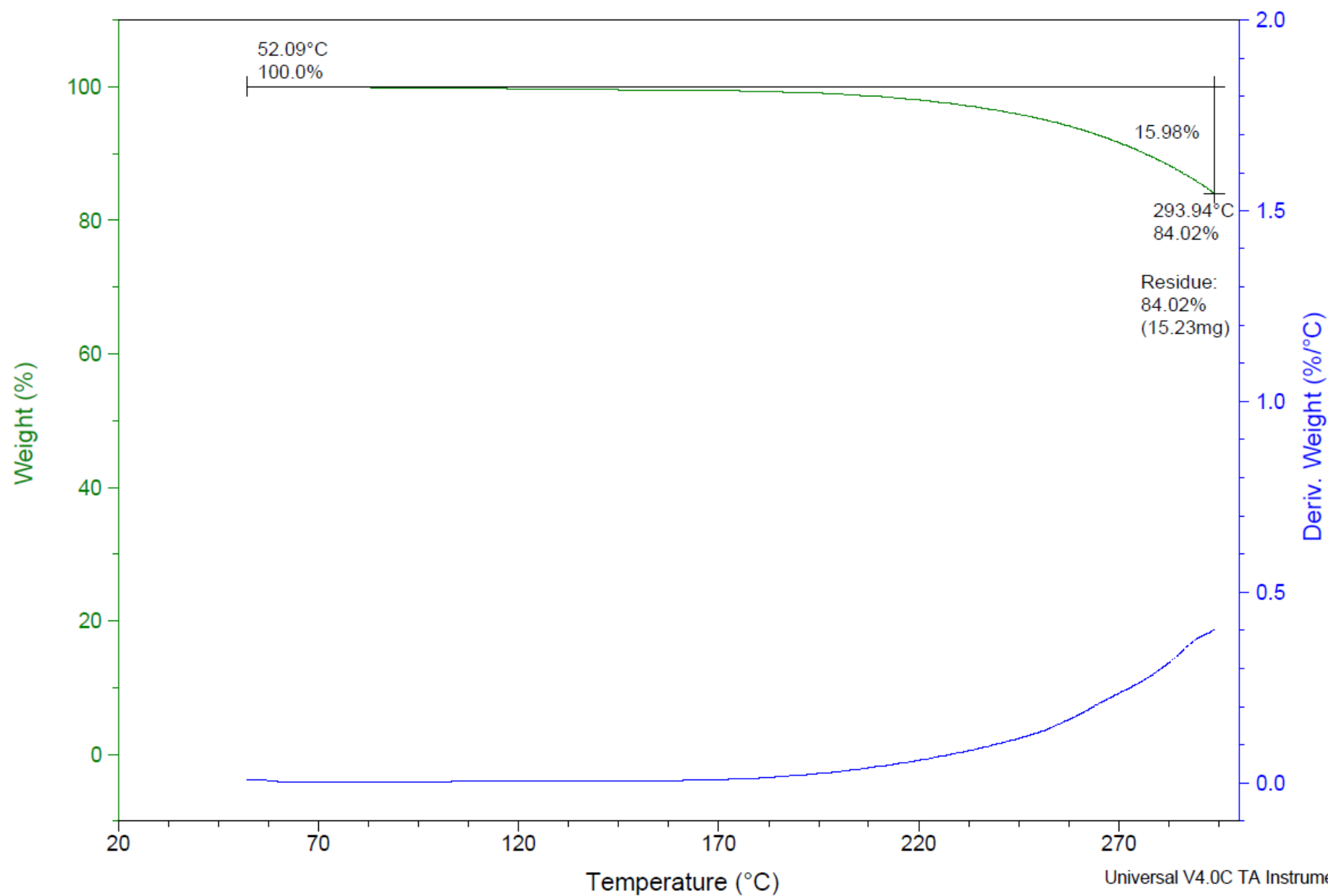
TGA : Thermo Gravimetric Analysis (열중량 분석)

TGA는 열분석과 동시에 진행하면서 온도에 따른 시료의 무게 변화를 측정합니다.
즉, 온도에 따른 기화, 증발, 산화량을 알 수 있습니다.
고온에서 사용할 수 있는 온도를 추정할 수 있습니다.

Sample: [MAGRON] MFS-4005
Size: 18.1290 mg
Method: RT->300 by 10 /min

TGA

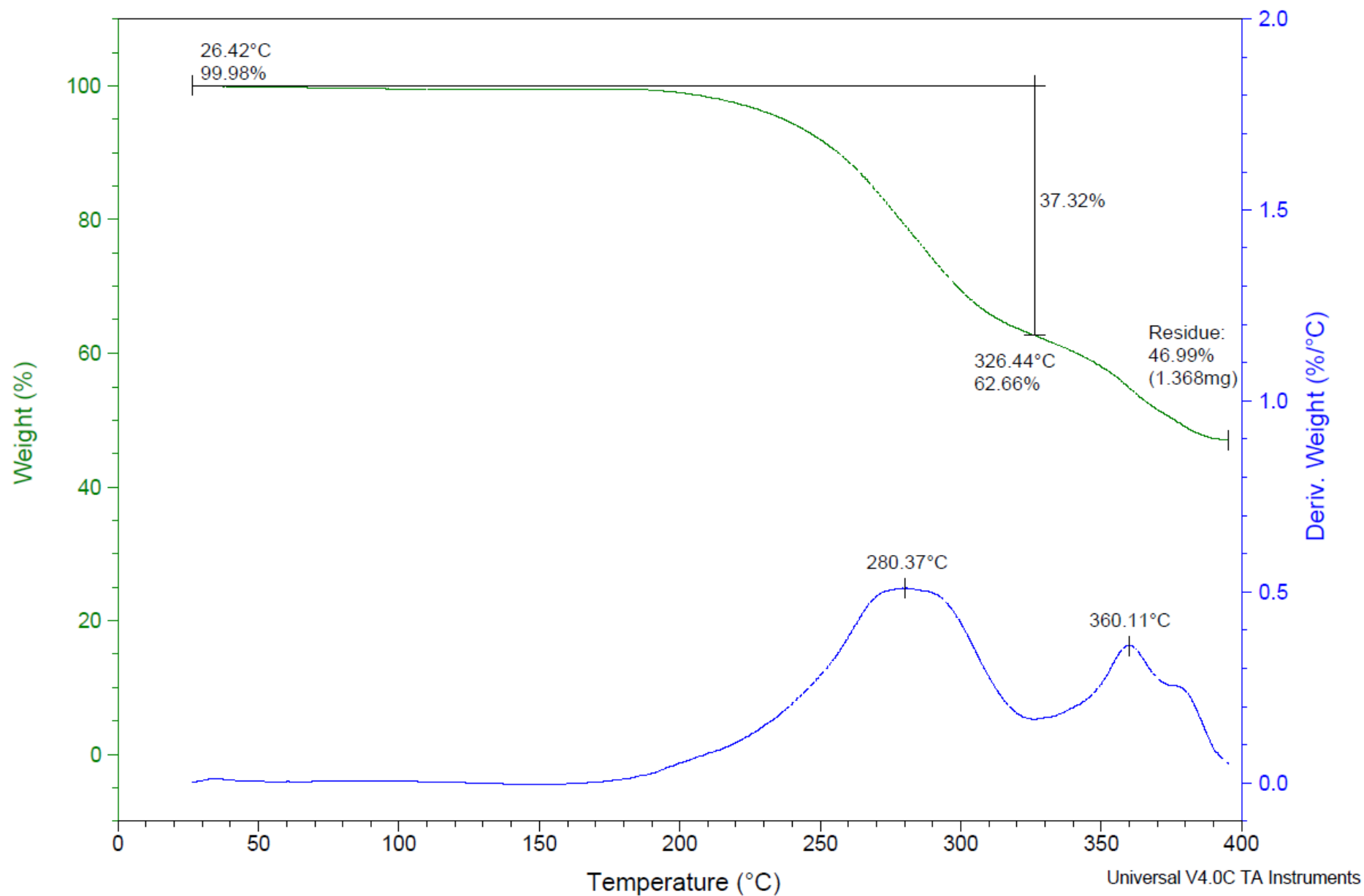
File: C:\...10\MAGRON\MAGRON] MFS-4005.002
Operator: KITECH
Run Date: 2023-10-20 08:44
Instrument: TGA Q500 V6.2 Build 187



Sample: [MAGRON] MFS-6022
Size: 2.9110 mg
Method: RT->400, @ 10C/min

TGA

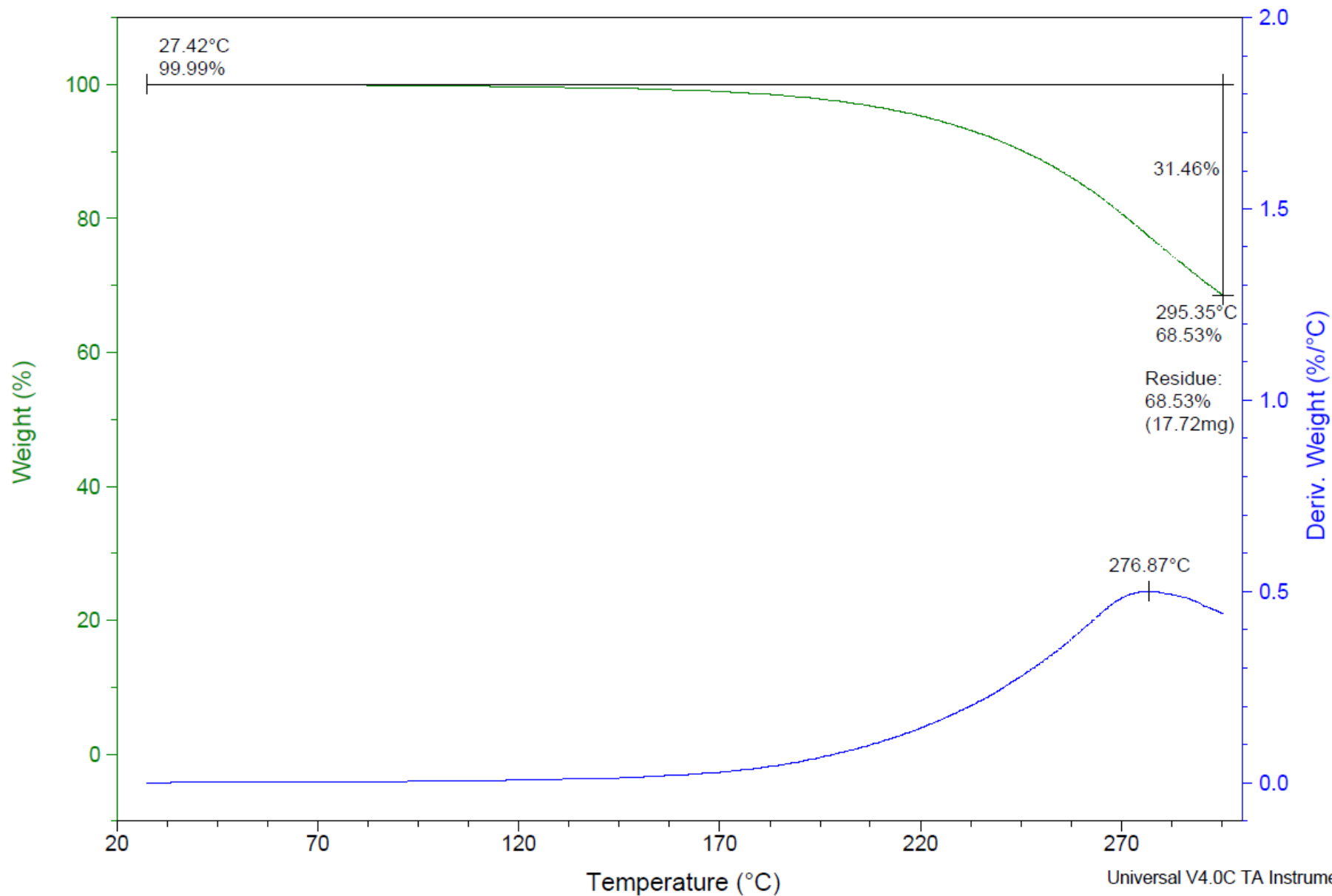
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Operator: KITECH
Run Date: 2023-11-28 13:55
Instrument: TGA Q500 V6.2 Build 187



Sample: [MAGRON] MFH-5002
Size: 25.8630 mg
Method: RT->300 by 10 /min

TGA

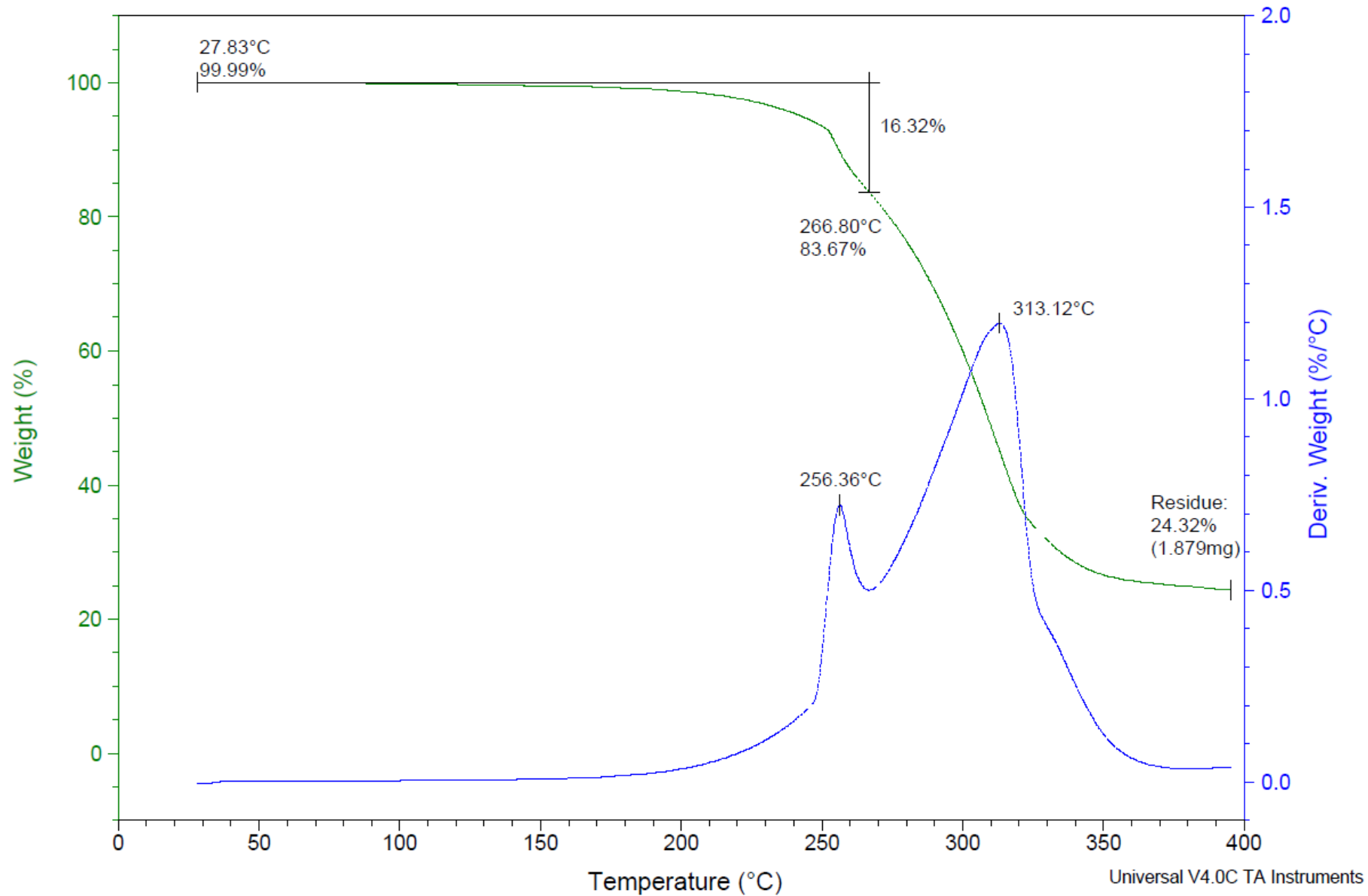
File: C:\...\10\MAGRON\MAGRON] MFH-5002.001
Operator: KITECH
Run Date: 2023-10-20 12:43
Instrument: TGA Q500 V6.2 Build 187



Sample: MFA-06 (580G/300cP)
Size: 7.7250 mg
Method: RT>400, @ 10C/min

TGA

File: C:\...\11\1128 Japan Alkyl naphthalene 580G/300
Operator: KITECH
Run Date: 20231128 12:34
Instrument: TGA Q500 V6.2 Build 187



Sample: [MAGRON] H9LT
Size: 22.1010 mg
Method: RT->300 by 10 /min

TGA

File: C:\...\2023\10\MAGRON\MAGRON] H9LT.001
Operator: KITECH
Run Date: 2023-10-20 10:44
Instrument: TGA Q500 V6.2 Build 187

