

Conducted test results

No.1-0083-25-02-15_TR1-A201-R01

April 01, 2026

Test Standard(s) NA - NI

This document is electronically signed and valid without handwritten signature.
Public keys for verification of the electronic signatures can be requested at the testing laboratory.



CN = Timo Franke email =
timo.
franke@cetecomadvanced.
com C = DE O = cetecom
advanced GmbH OU =
RadioLabs
2026.04.01 22:27:45 +02'00'

Authorized

Timo Franke

Lab Manager
Compliance Testing & Innovation

NA # Frequency accuracy over temperature and voltage ~

References

TC start	20.03.2026 20:01:49
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.6.0
Standard Version	NA NI
Method	
Description	Frequency Accuracy over Temp. and Voltage
Information	

Equipment

Signal analyzer,Rohde&Schwarz,FSW-50,1331.5003K50/101929,6.20SP1
Power supply,HEWLETT-PACKARD,E3632A,0,1.2-5.0-1.0

Test Parameter

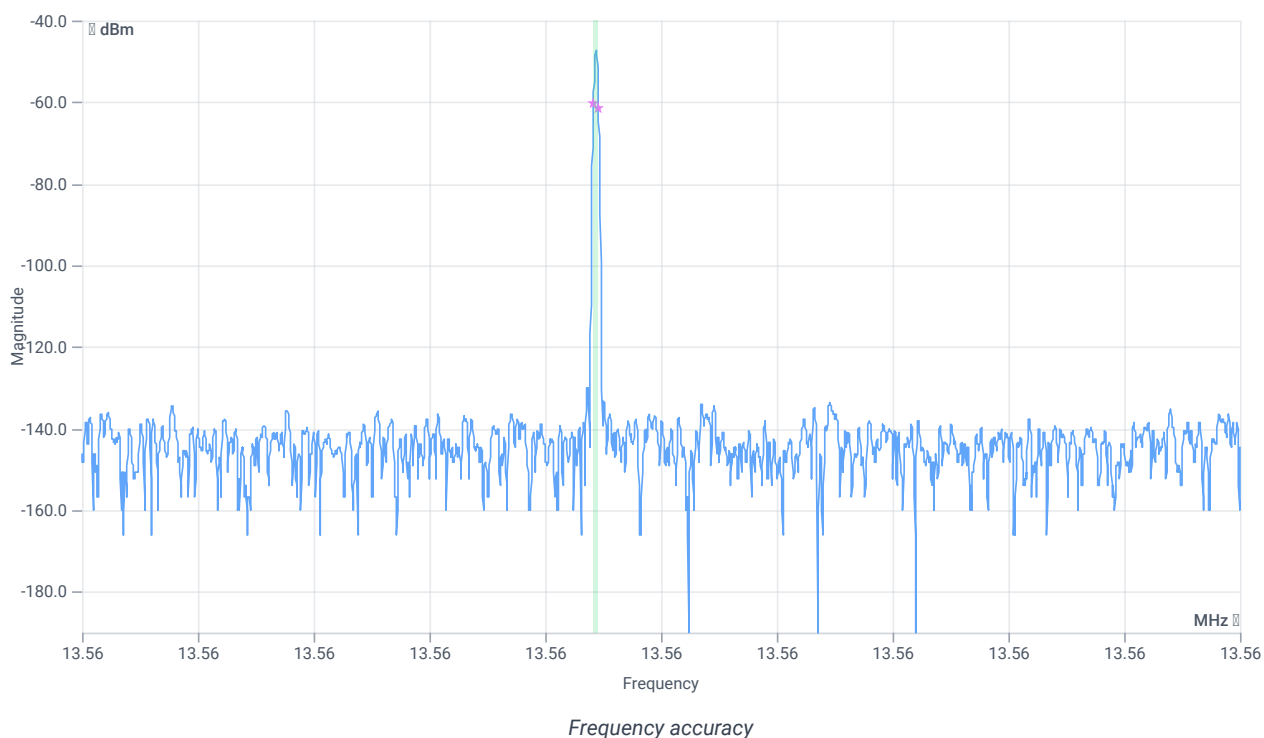
Additional path loss [dB]	0
Full path type	
Full path name	
Switch bits	
Temp variation enabled Voltage variation enabled	Yes Yes

RESULT: Reference power with small filter

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 0.1MHz/0.1MHz	---	---	-48.51	dBm	INFO
Ref. frequency	---	---	13.560	MHz	INFO

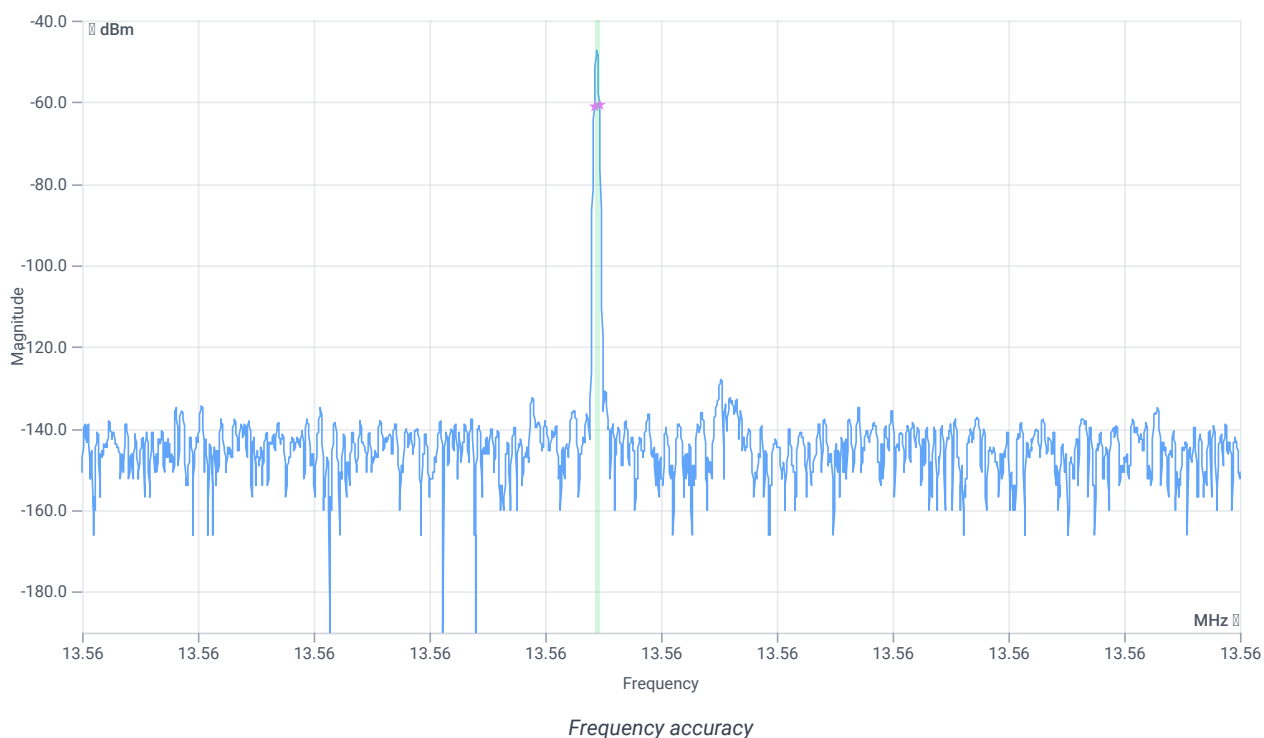
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-45.51 0 0
Start [MHz] Stop [MHz]	13.558 13.563
RBW [MHz] VBW [MHz]	0.000010 0.000100
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	5000 1 3001 SWE



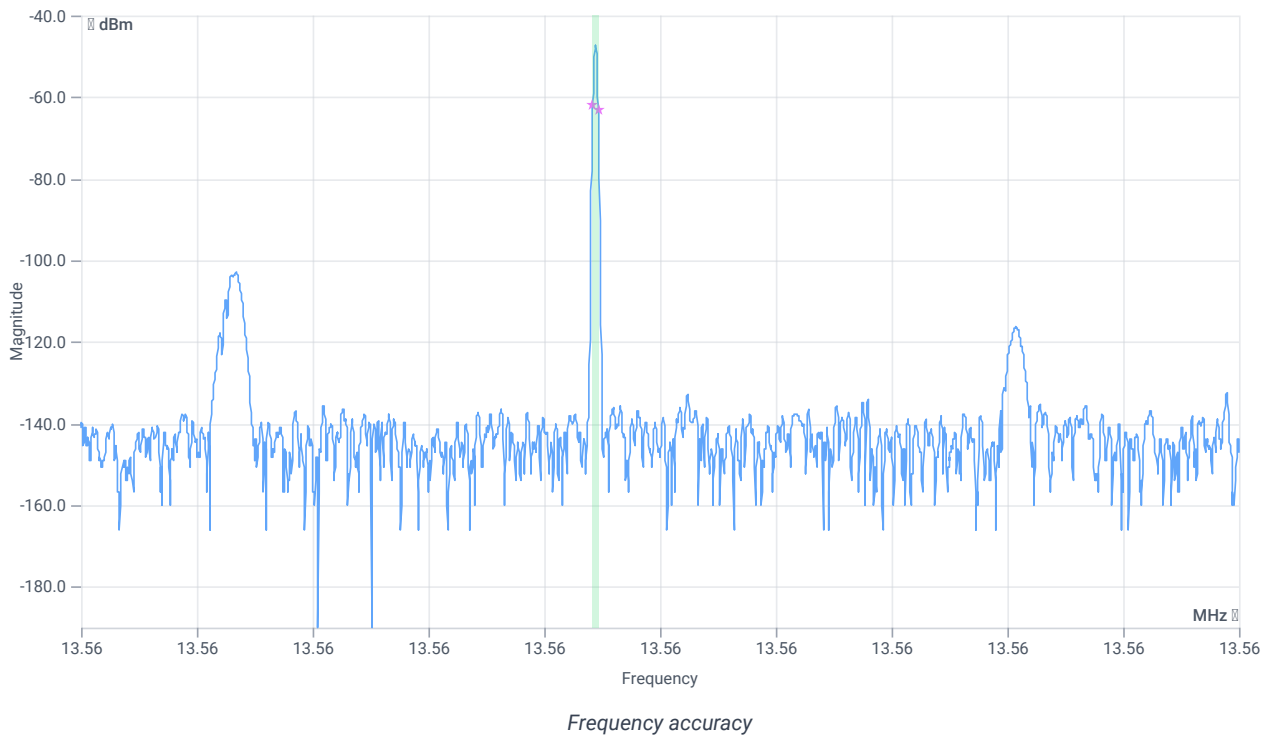
RESULT Temperature [°C]: 20 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5597	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559719	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000281	MHz	INFO
Foffset	---	---	-0.281	kHz	INFO
Foffset (abs)		100	20.69	ppm	PASS



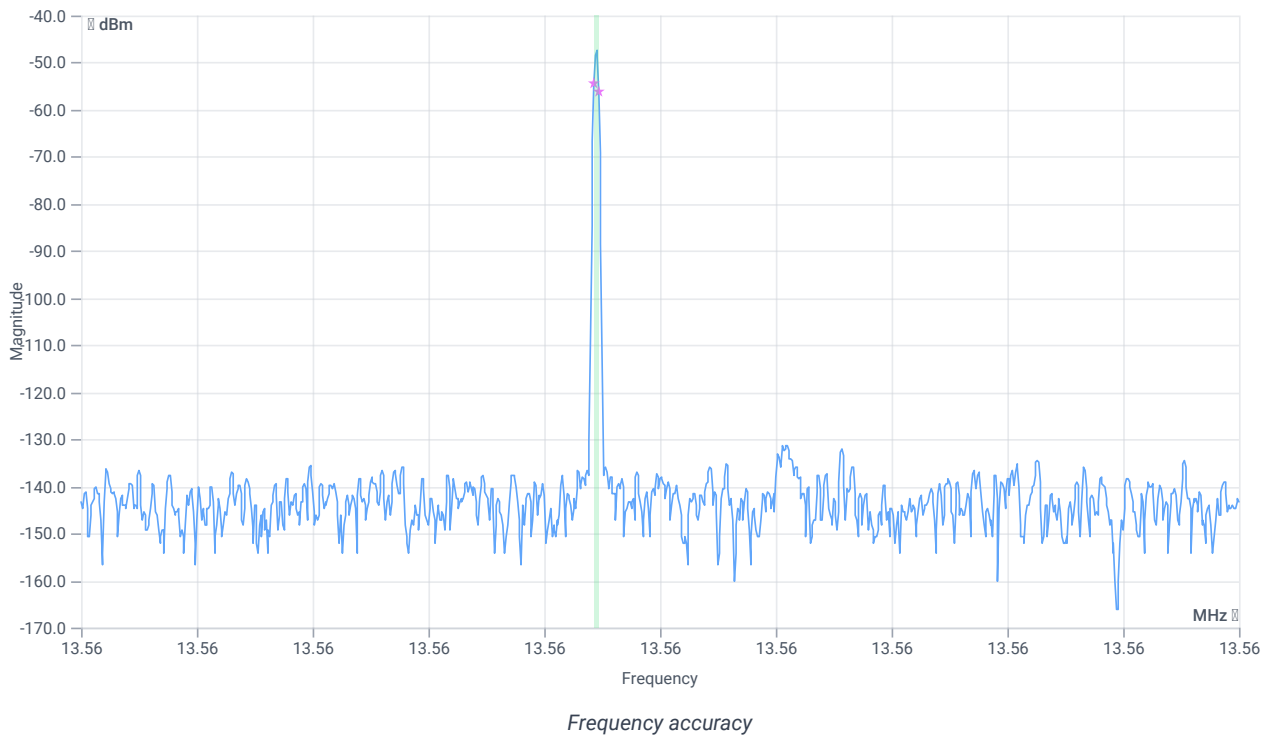
RESULT Temperature [°C]: 20 | Voltage [V]: 10.2

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5597	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559722	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000278	MHz	INFO
Foffset	---	---	-0.278	kHz	INFO
Foffset (abs)		100	20.48	ppm	PASS



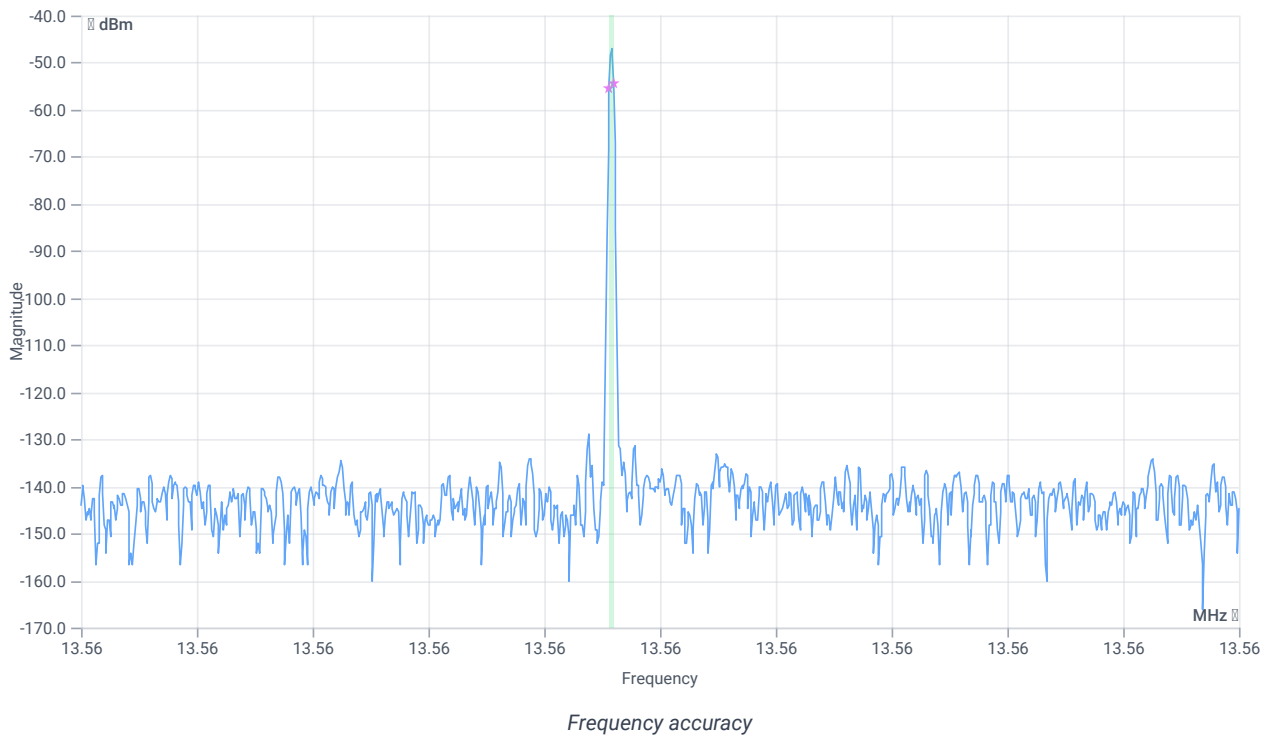
RESULT Temperature [°C]: 20 | Voltage [V]: 13.8

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5597	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559721	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000279	MHz	INFO
Foffset	---	---	-0.279	kHz	INFO
Foffset (abs)		100	20.55	ppm	PASS



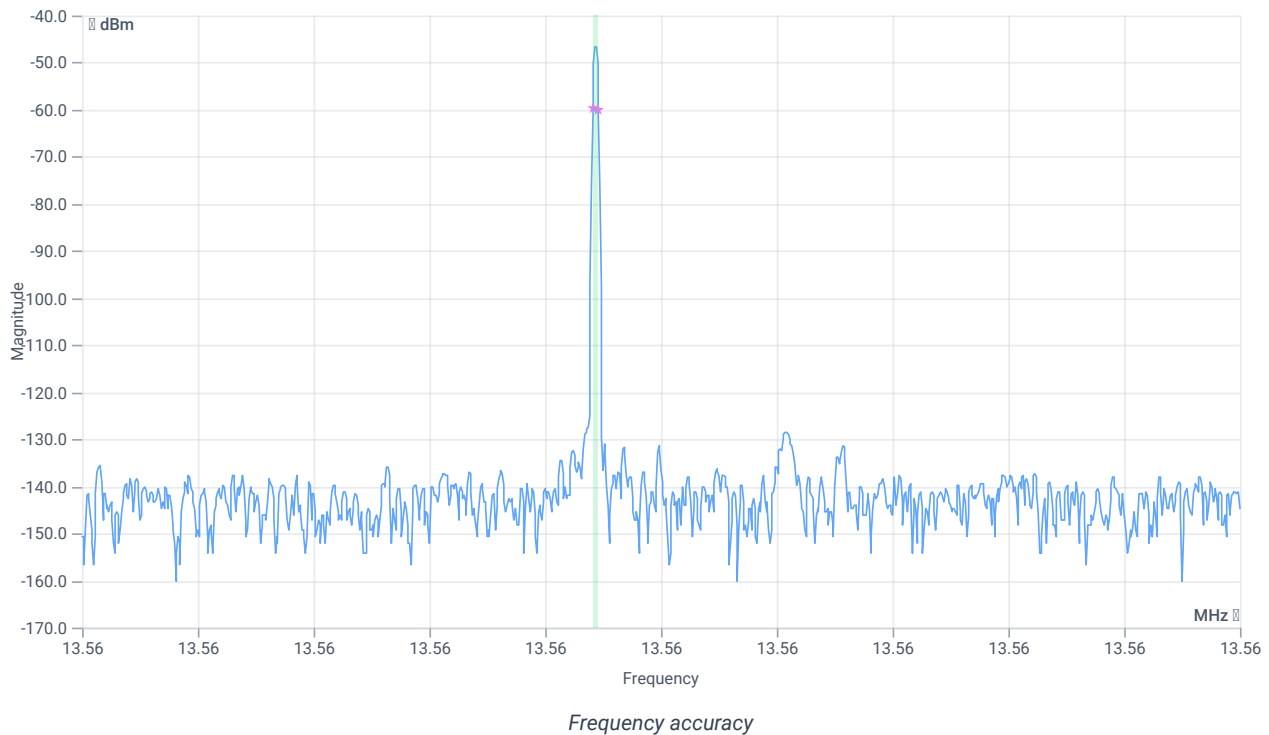
RESULT Temperature [°C]: 80 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5597	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559725	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000275	MHz	INFO
Foffset	---	---	-0.275	kHz	INFO
Foffset (abs)		100	20.27	ppm	PASS



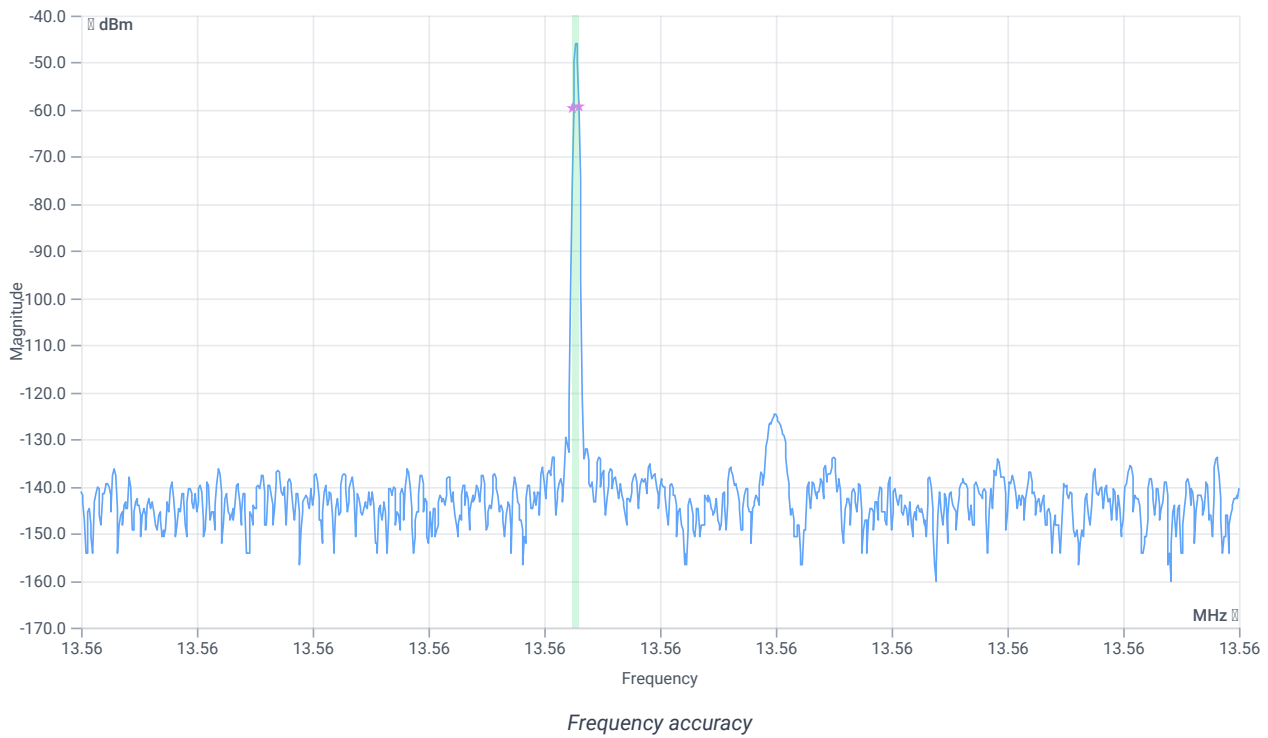
RESULT Temperature [°C]: 70 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5598	MHz	INFO
T2 99%	---	---	13.5598	MHz	INFO
F0	---	---	13.559790	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000210	MHz	INFO
Foffset	---	---	-0.210	kHz	INFO
Foffset (abs)		100	15.47	ppm	PASS



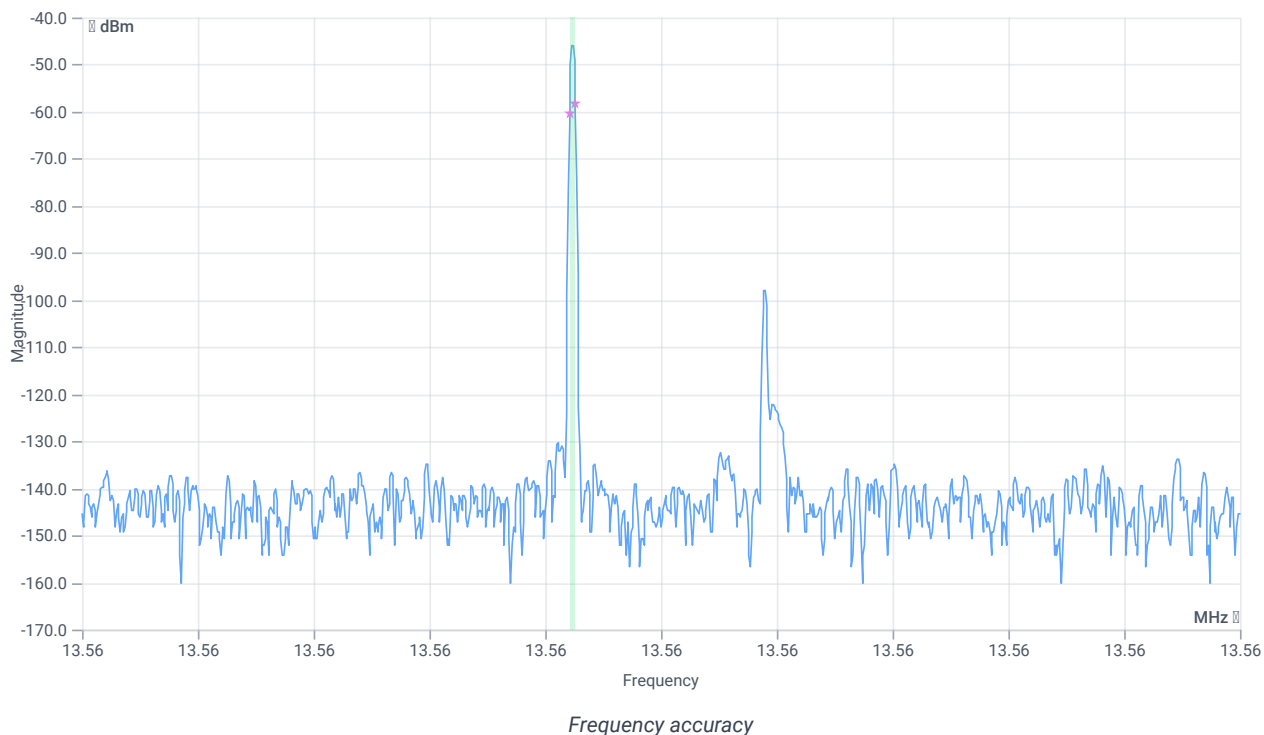
RESULT Temperature [°C]: 60 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5597	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559718	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000282	MHz	INFO
Foffset	---	---	-0.282	kHz	INFO
Foffset (abs)		100	20.82	ppm	PASS



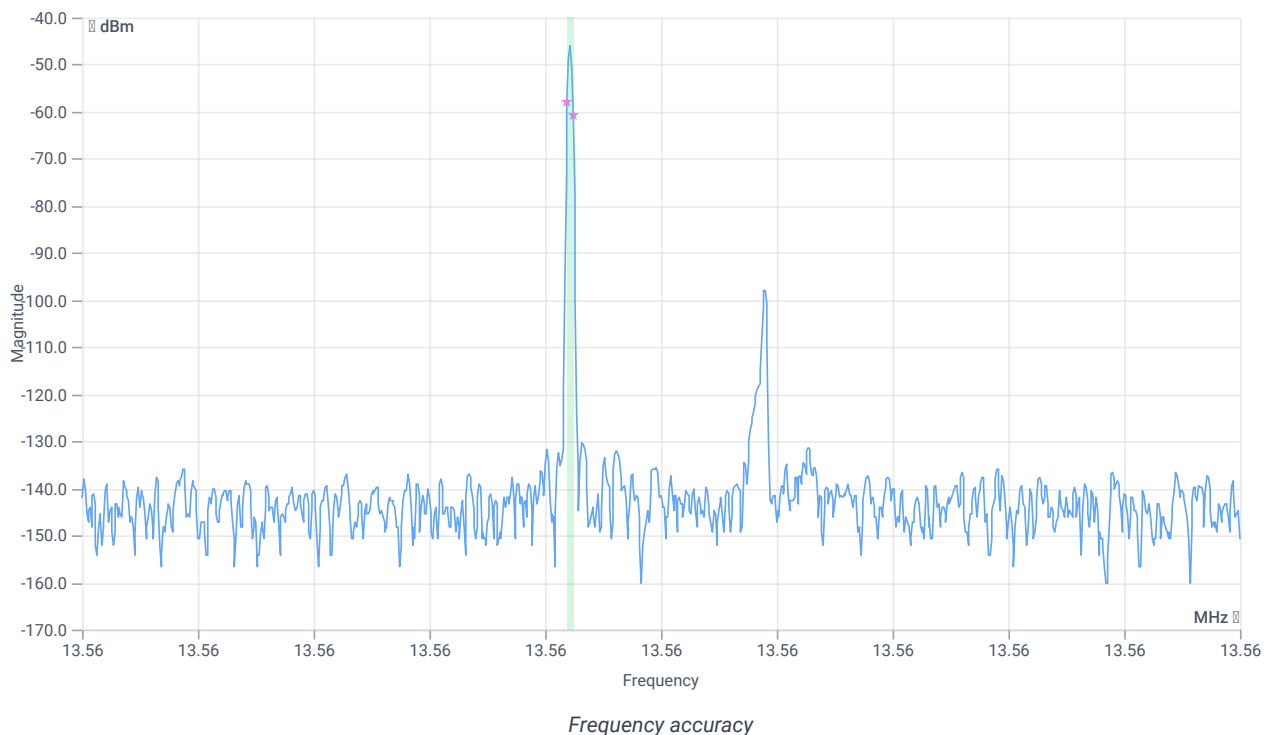
RESULT Temperature [°C]: 50 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5596	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559638	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000362	MHz	INFO
Foffset	---	---	-0.362	kHz	INFO
Foffset (abs)		100	26.7	ppm	PASS



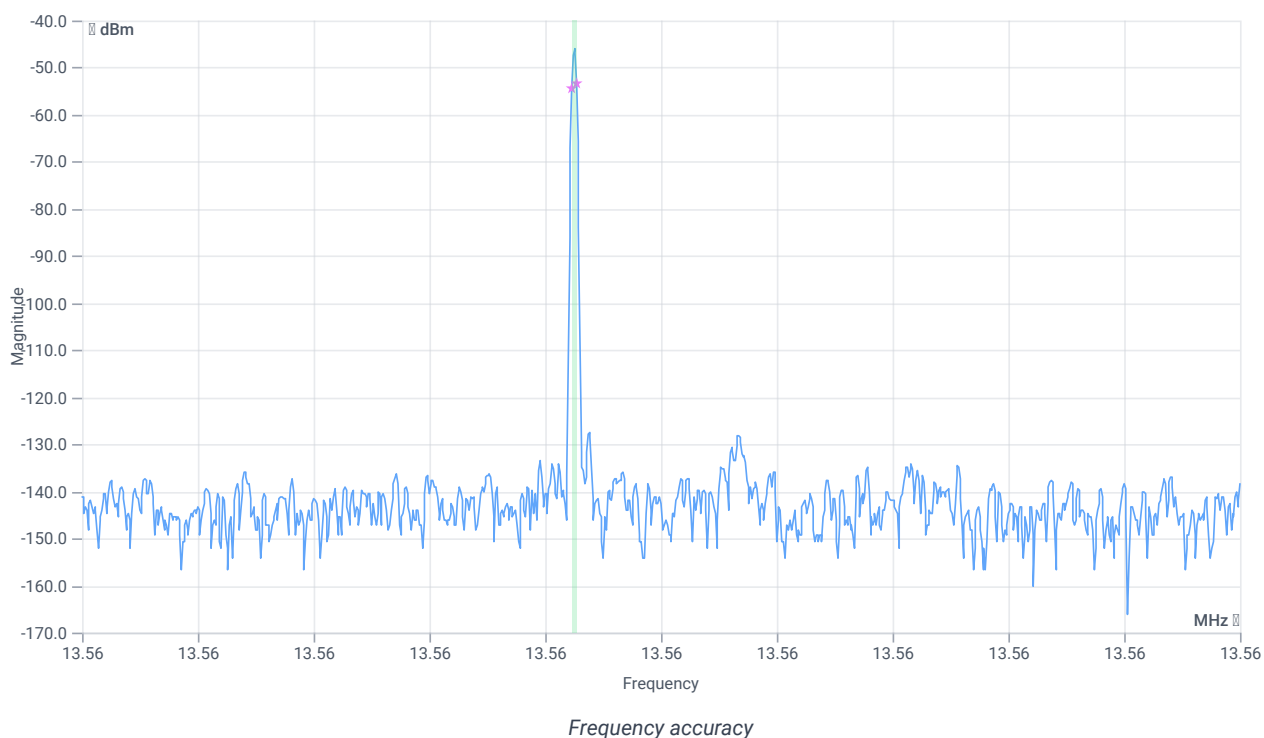
RESULT Temperature [°C]: 40 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5596	MHz	INFO
T2 99%	---	---	13.5596	MHz	INFO
F0	---	---	13.559618	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000382	MHz	INFO
Foffset	---	---	-0.382	kHz	INFO
Foffset (abs)		100	28.15	ppm	PASS



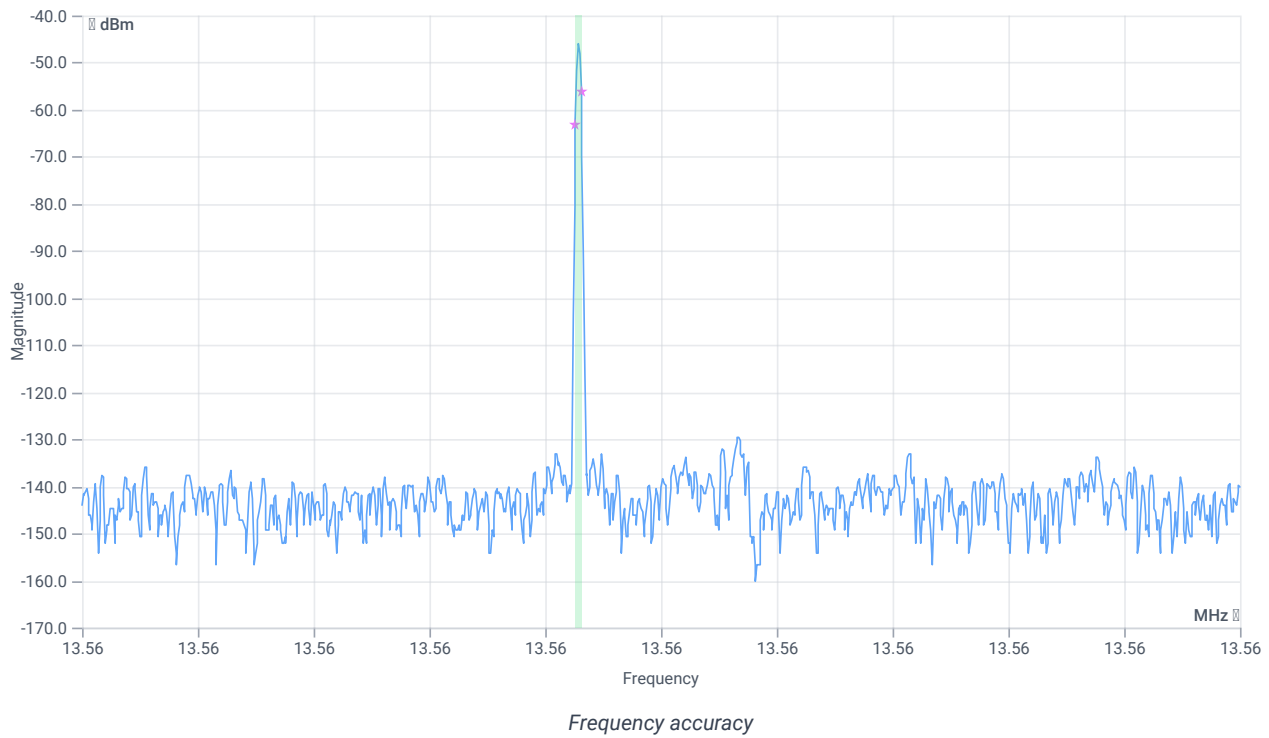
RESULT Temperature [°C]: 30 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5596	MHz	INFO
T2 99%	---	---	13.5596	MHz	INFO
F0	---	---	13.559607	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000393	MHz	INFO
Foffset	---	---	-0.393	kHz	INFO
Foffset (abs)		100	28.96	ppm	PASS



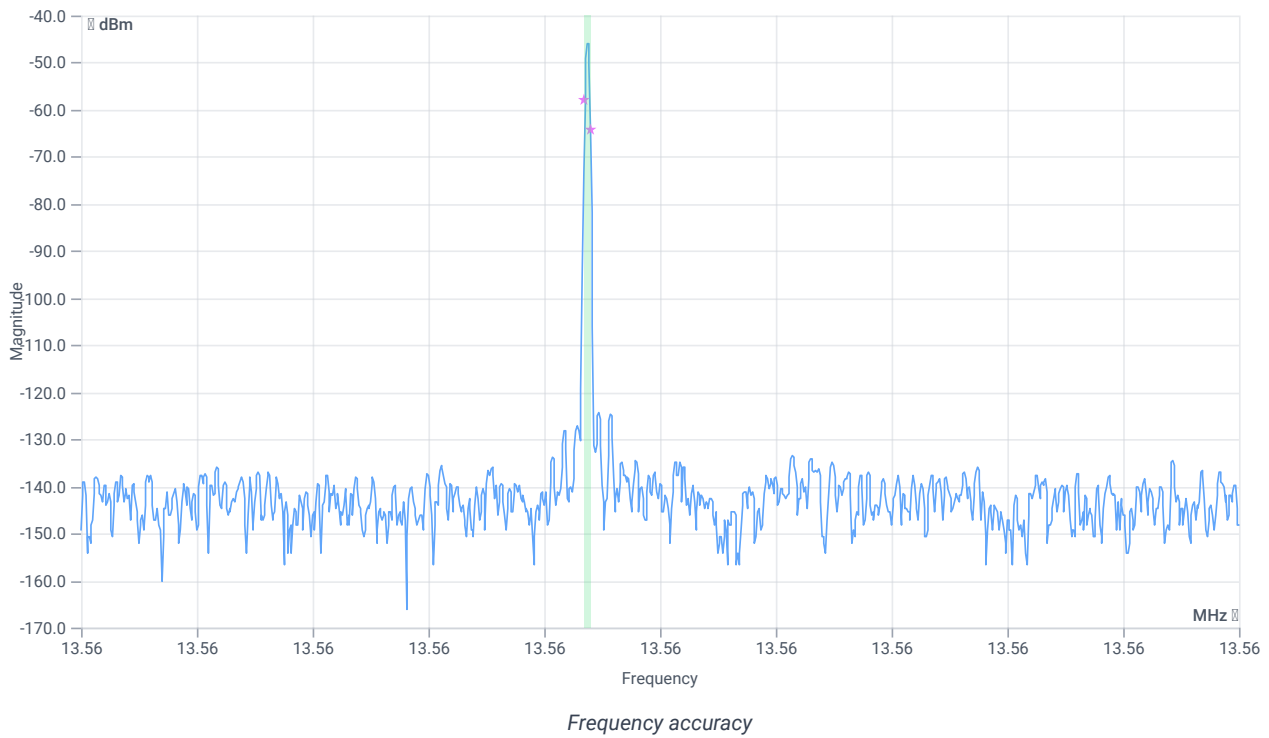
RESULT Temperature [°C]: 20 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5596	MHz	INFO
T2 99%	---	---	13.5596	MHz	INFO
F0	---	---	13.559625	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000375	MHz	INFO
Foffset	---	---	-0.375	kHz	INFO
Foffset (abs)		100	27.62	ppm	PASS



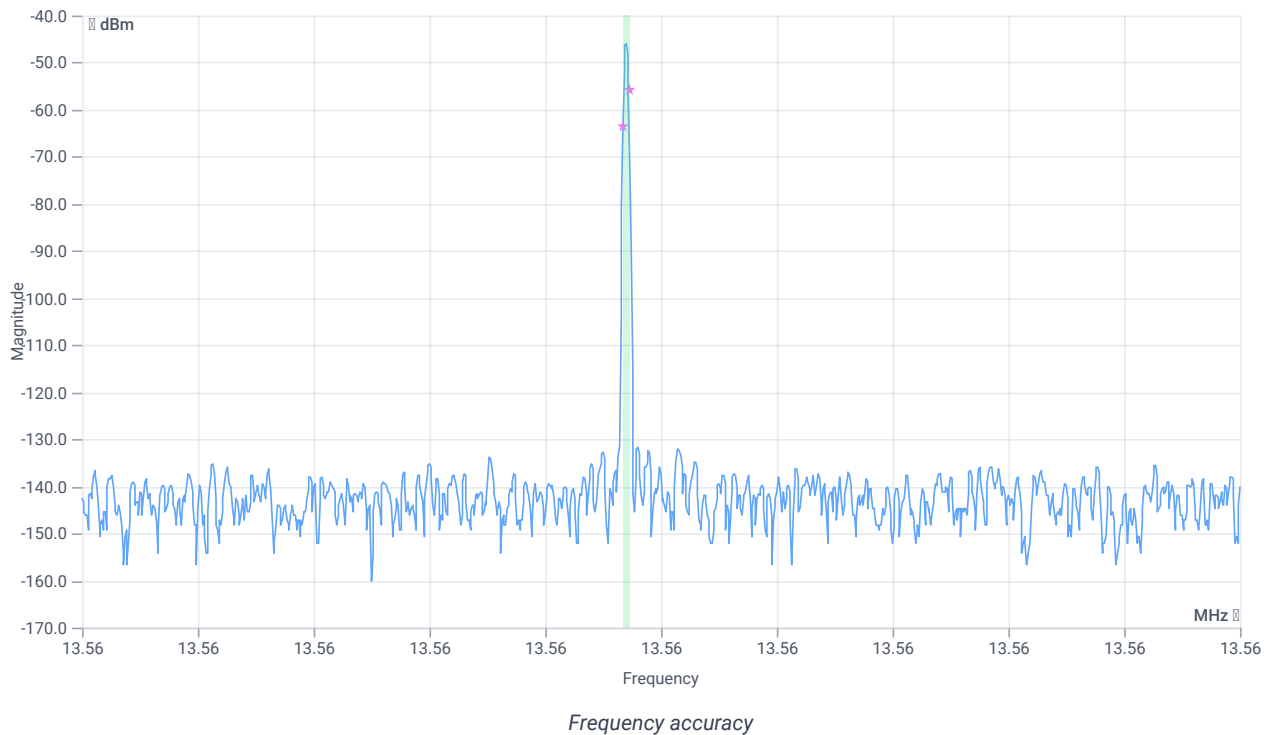
RESULT Temperature [°C]: 10 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5596	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559644	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000356	MHz	INFO
Foffset	---	---	-0.356	kHz	INFO
Foffset (abs)		100	26.22	ppm	PASS



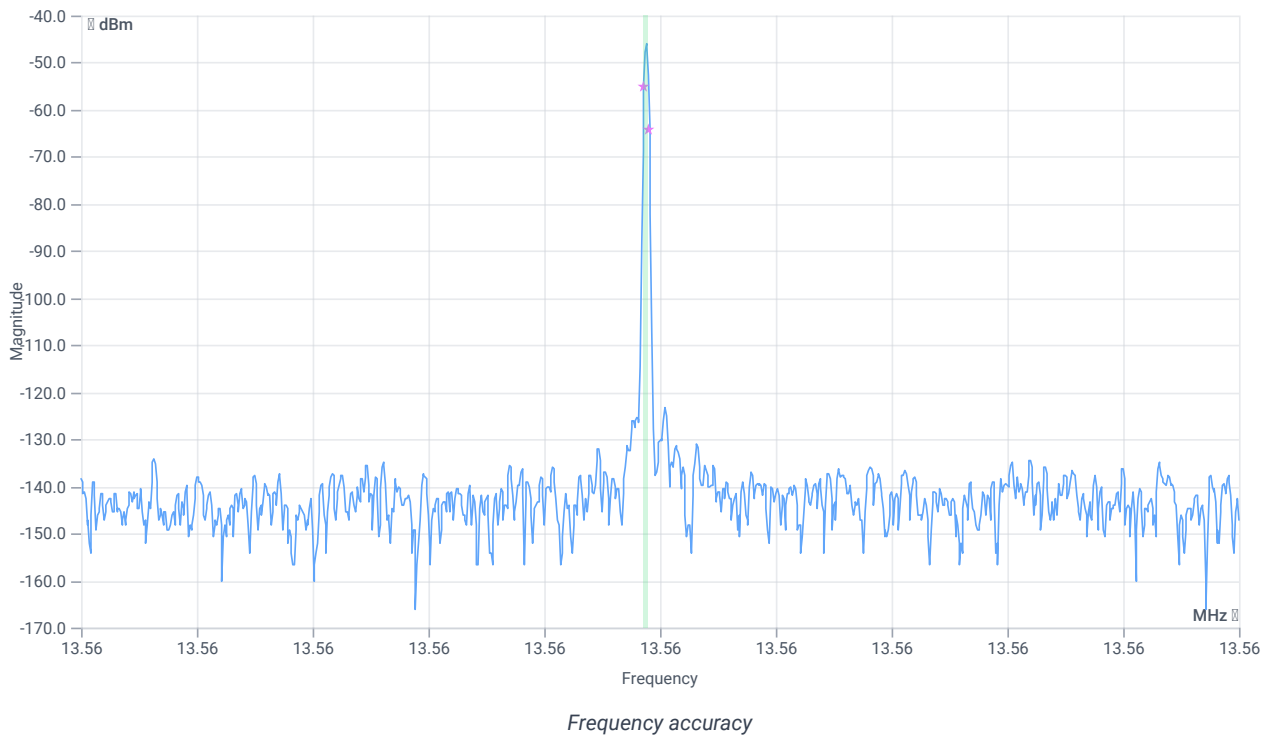
RESULT Temperature [°C]: 0 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5597	MHz	INFO
T2 99%	---	---	13.5597	MHz	INFO
F0	---	---	13.559686	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000314	MHz	INFO
Foffset	---	---	-0.314	kHz	INFO
Foffset (abs)		100	23.16	ppm	PASS



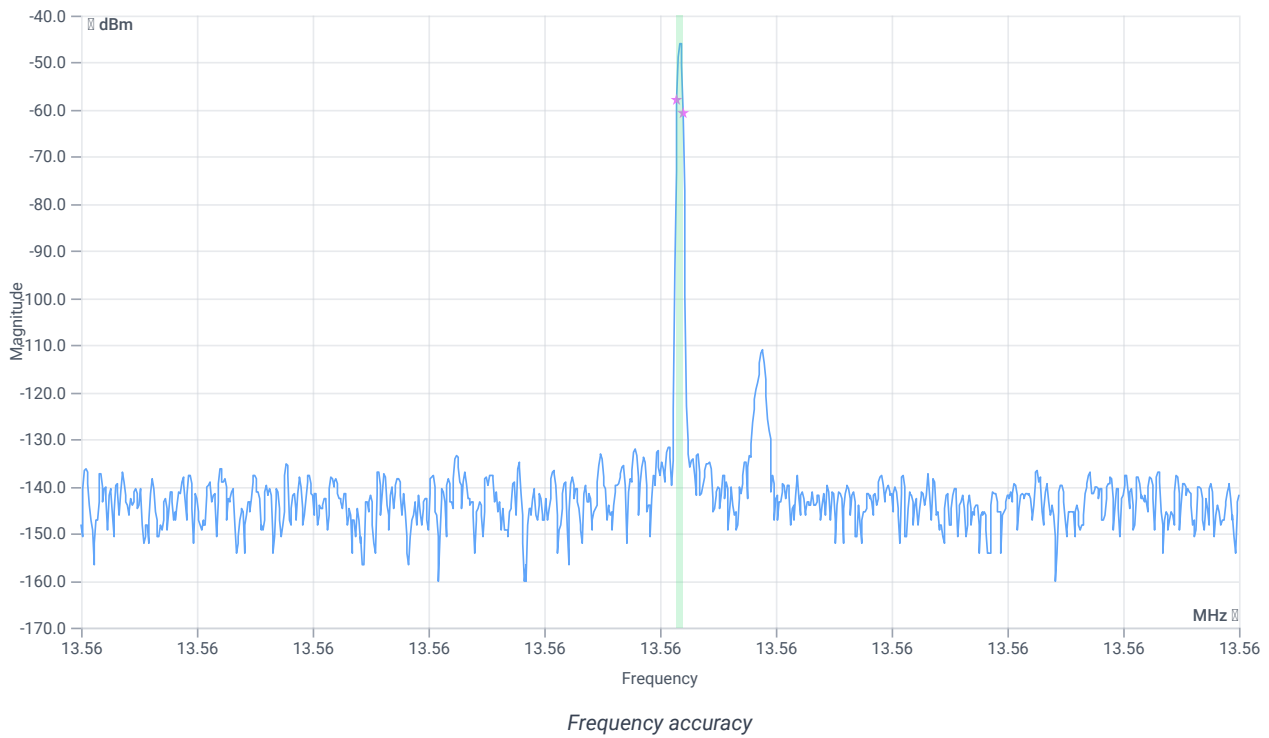
RESULT Temperature [°C]: -10 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5598	MHz	INFO
T2 99%	---	---	13.5599	MHz	INFO
F0	---	---	13.559849	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000151	MHz	INFO
Foffset	---	---	-0.151	kHz	INFO
Foffset (abs)		100	11.1	ppm	PASS



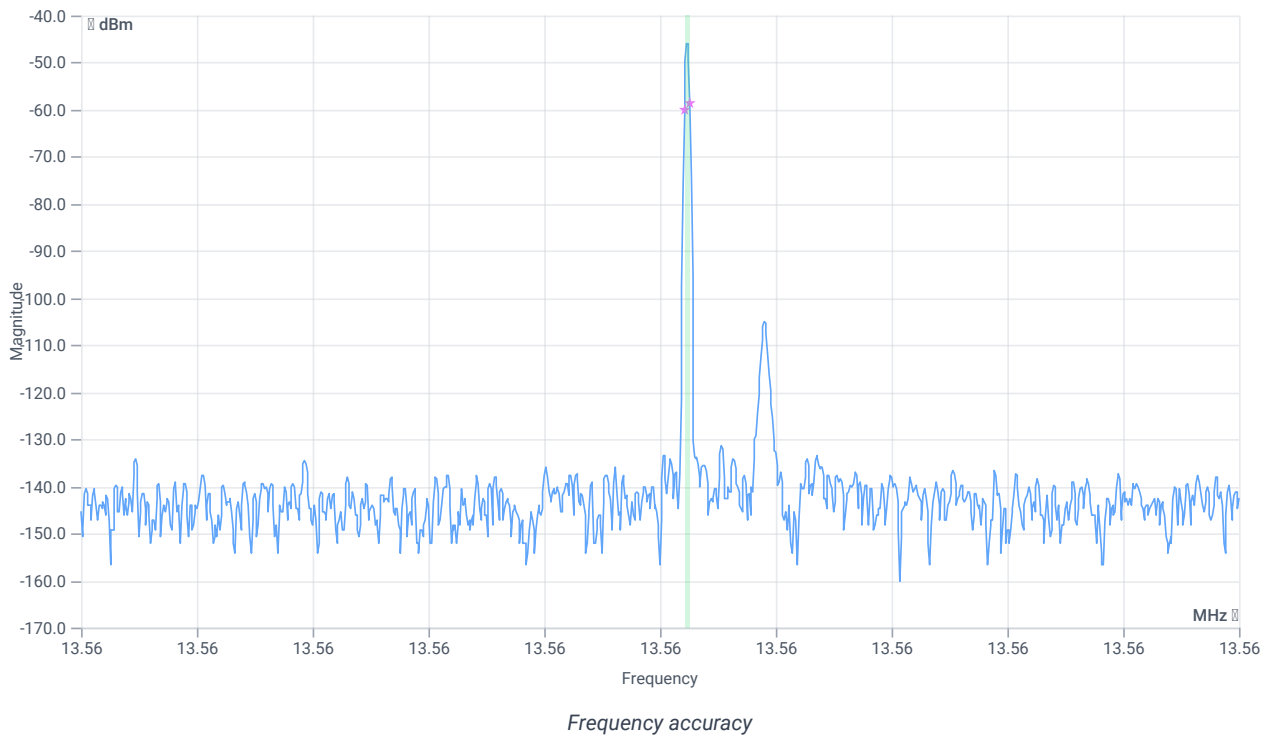
RESULT Temperature [°C]: -20 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5599	MHz	INFO
T2 99%	---	---	13.5600	MHz	INFO
F0	---	---	13.559940	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	-0.000060	MHz	INFO
Foffset	---	---	-0.060	kHz	INFO
Foffset (abs)		100	4.4	ppm	PASS



RESULT Temperature [°C]: -30 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5601	MHz	INFO
T2 99%	---	---	13.5601	MHz	INFO
F0	---	---	13.560087	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	0.000087	MHz	INFO
Foffset	---	---	0.087	kHz	INFO
Foffset (abs)		100	6.4	ppm	PASS



RESULT Temperature [°C]: -40 | Voltage [V]: 12

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	0.000	MHz	INFO
T1 99%	---	---	13.5601	MHz	INFO
T2 99%	---	---	13.5601	MHz	INFO
F0	---	---	13.560118	MHz	INFO
Ftarget	---	---	13.560000	MHz	INFO
Foffset	---	---	0.000118	MHz	INFO
Foffset	---	---	0.118	kHz	INFO
Foffset (abs)		100	8.67	ppm	PASS

Verdict

INFO

- END OF DOCUMENT -