

Frequency stability test

No.1-8972-24-01-02_TR1-A203-R1

January 08, 2025

Test Standard(s)

Systems FCC.ISED - NI

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Authorized

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Systems FCC.ISED # Frequency stability over temperature & voltage ~ TID0058_1-8972-24-01-02_EUT_2_Freq_stability_FCC 116000-123000 MHz

References

TC start	07.01.2025 10:30:29
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	5.1.5.0
Standard Version	Systems FCC.ISED NI
Method	
Description	Systems FCC ISED Freq stability over temp/volt
Information	

Equipment

Signal analyzer,Rohde&Schwarz,FSW-50,1331.5003K50/101560,6.20
Power supply,Agilent Technologies,N5767A,US14J1569P,B.00.06,REV:F
Climatic box,CTS,T-40/50,064023,LAN

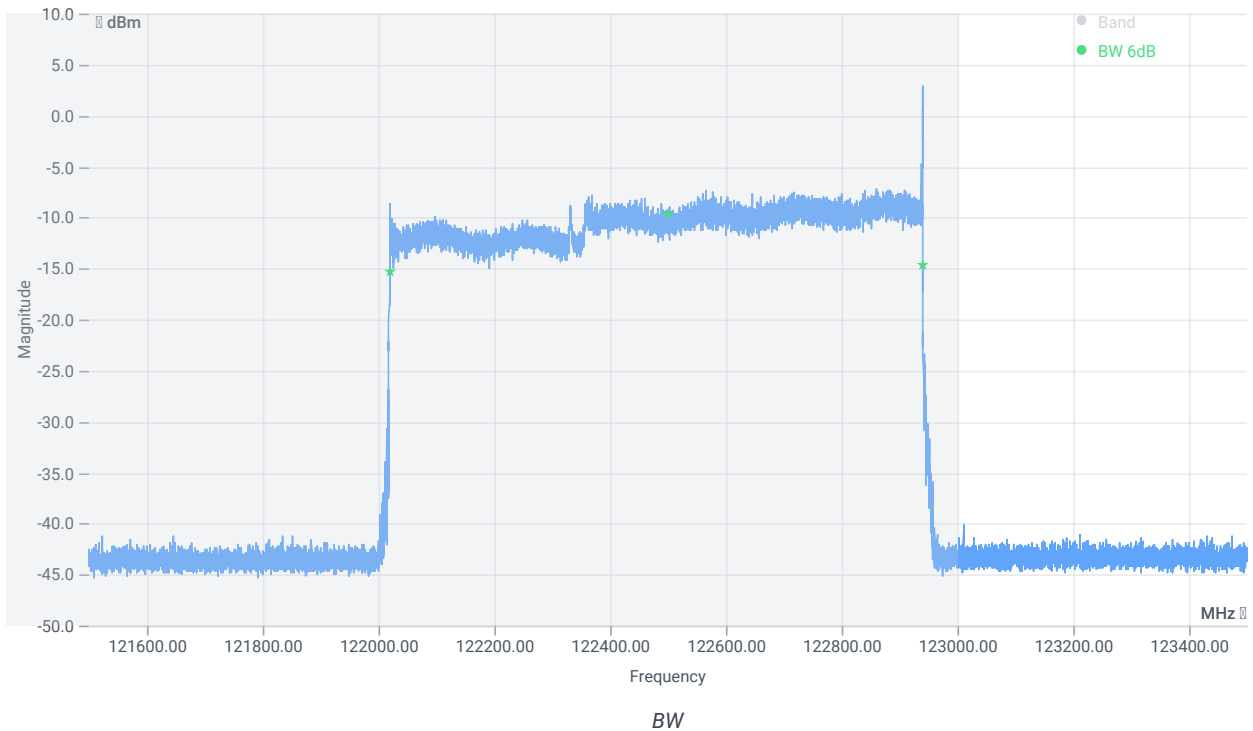
Test Parameter

EUT port	
Temperature	var
Voltage	var
Auto control enabled power supply Climatic Box	Yes Yes
Full path type	
Full path name	
Switch bits	

Test for temperature[°C]: 20 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



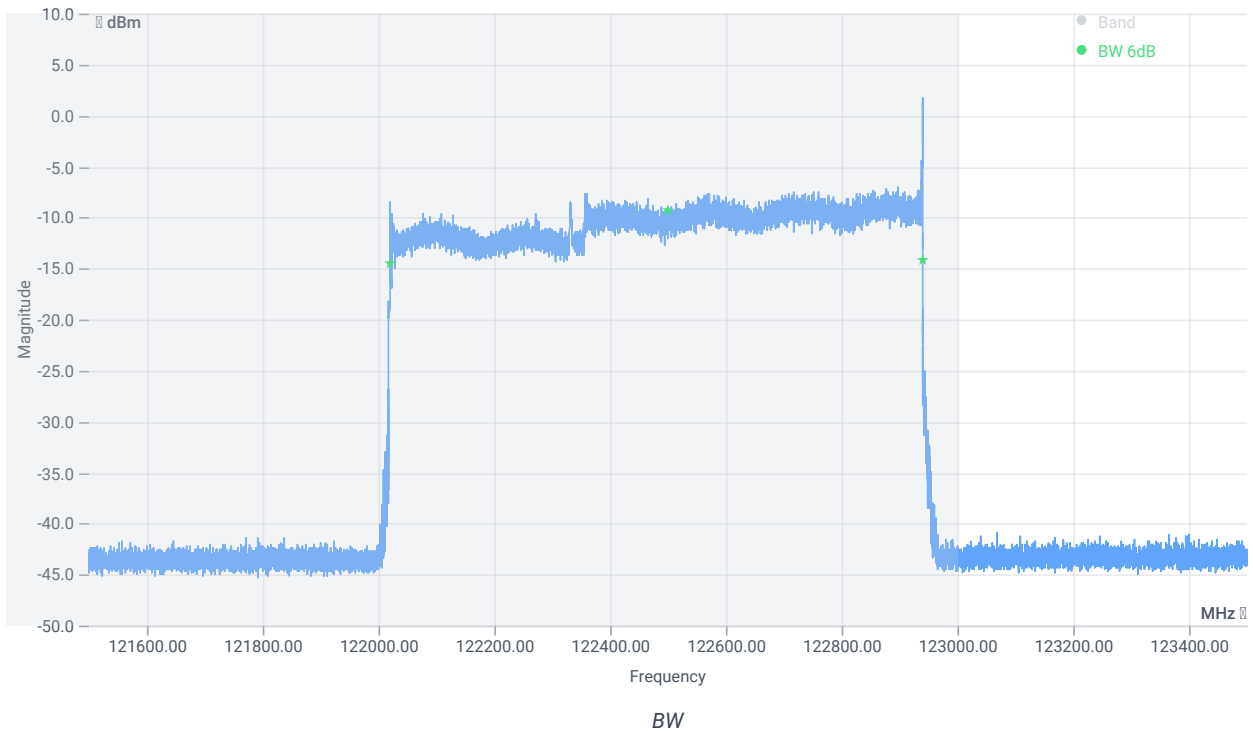
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.8	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122018.9000	MHz	PASS
T2 6dB	---	123000	122940.7000	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 20.4

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



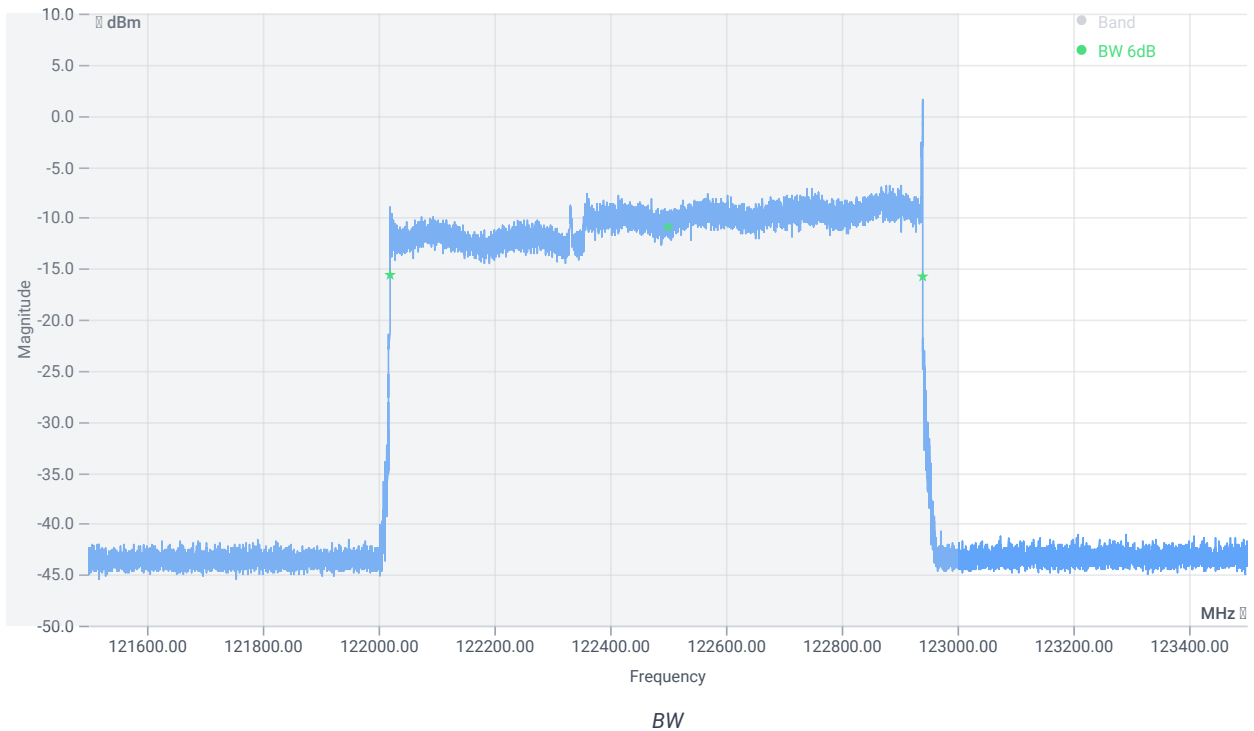
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.5	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122018.9000	MHz	PASS
T2 6dB	---	123000	122940.4000	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 27.6

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



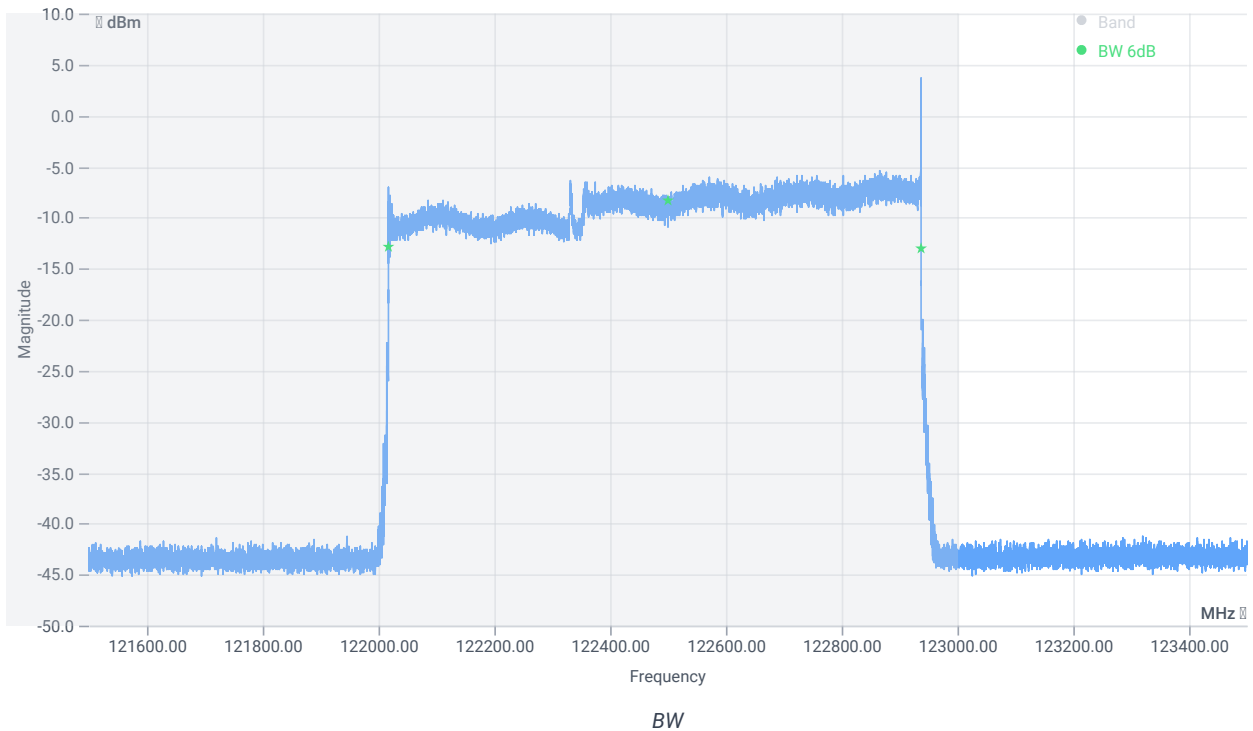
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.7	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122018.8000	MHz	PASS
T2 6dB	---	123000	122940.5000	MHz	PASS

Test for temperature[°C]: -20 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



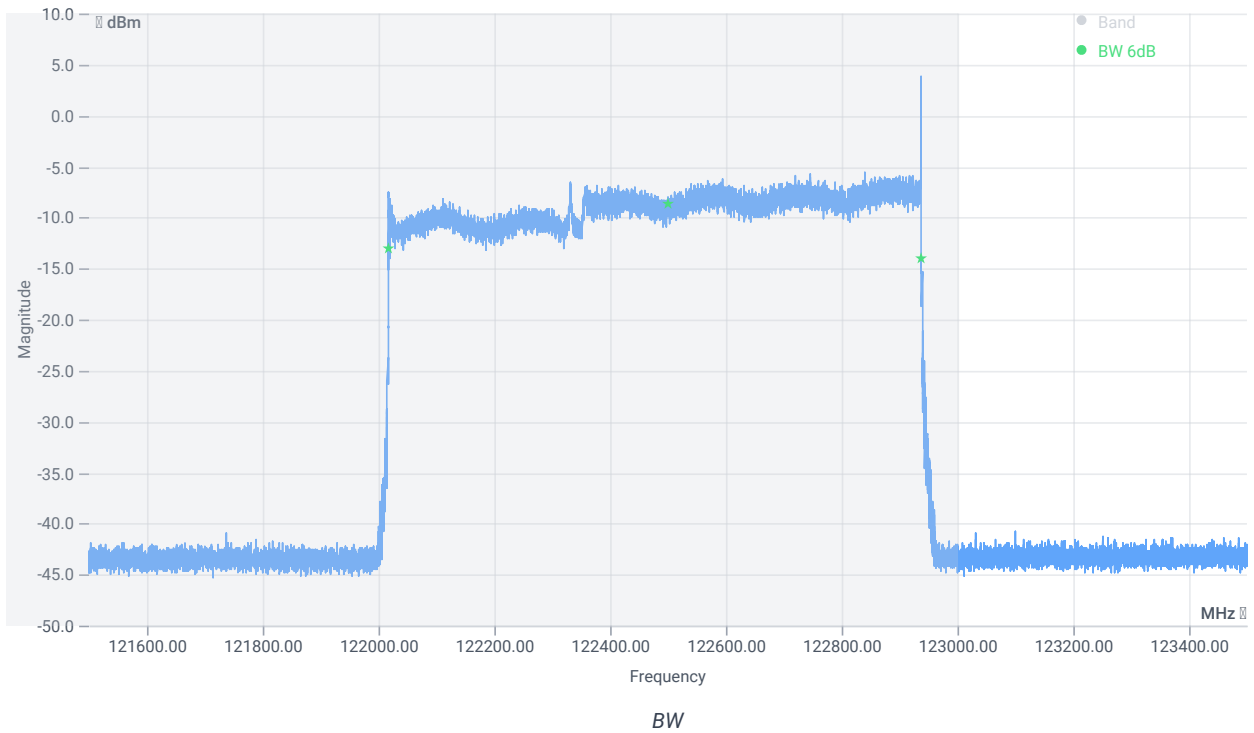
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.7	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122016.5000	MHz	PASS
T2 6dB	---	123000	122938.2000	MHz	PASS

Test for temperature[°C]: -10 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



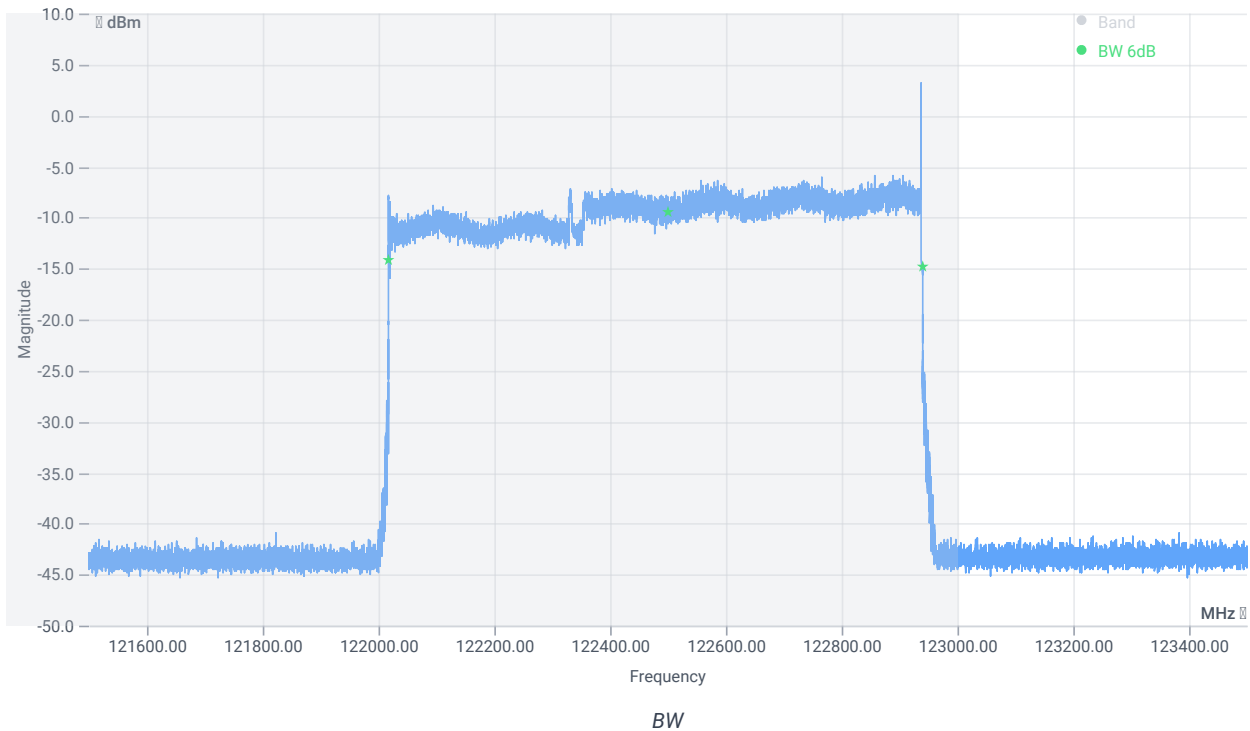
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.8	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122016.6000	MHz	PASS
T2 6dB	---	123000	122938.4000	MHz	PASS

Test for temperature[°C]: 0 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



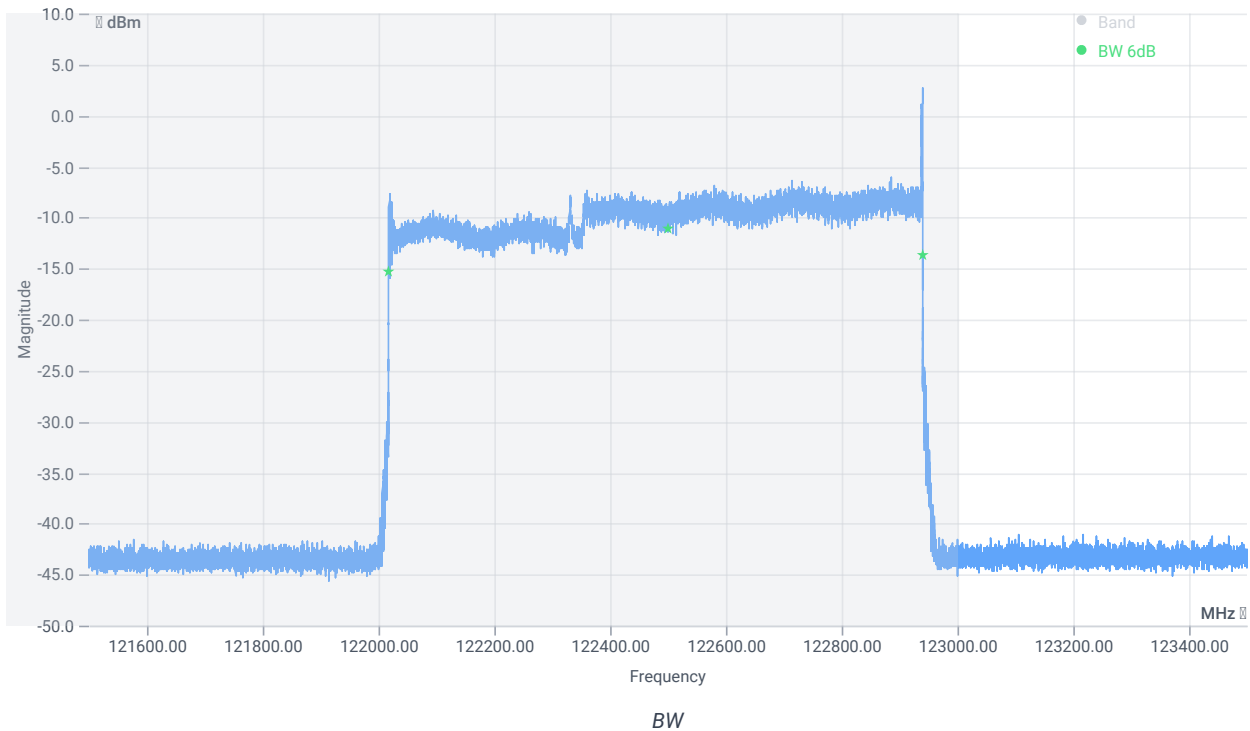
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.8	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122017.0000	MHz	PASS
T2 6dB	---	123000	122938.8000	MHz	PASS

Test for temperature[°C]: 10 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



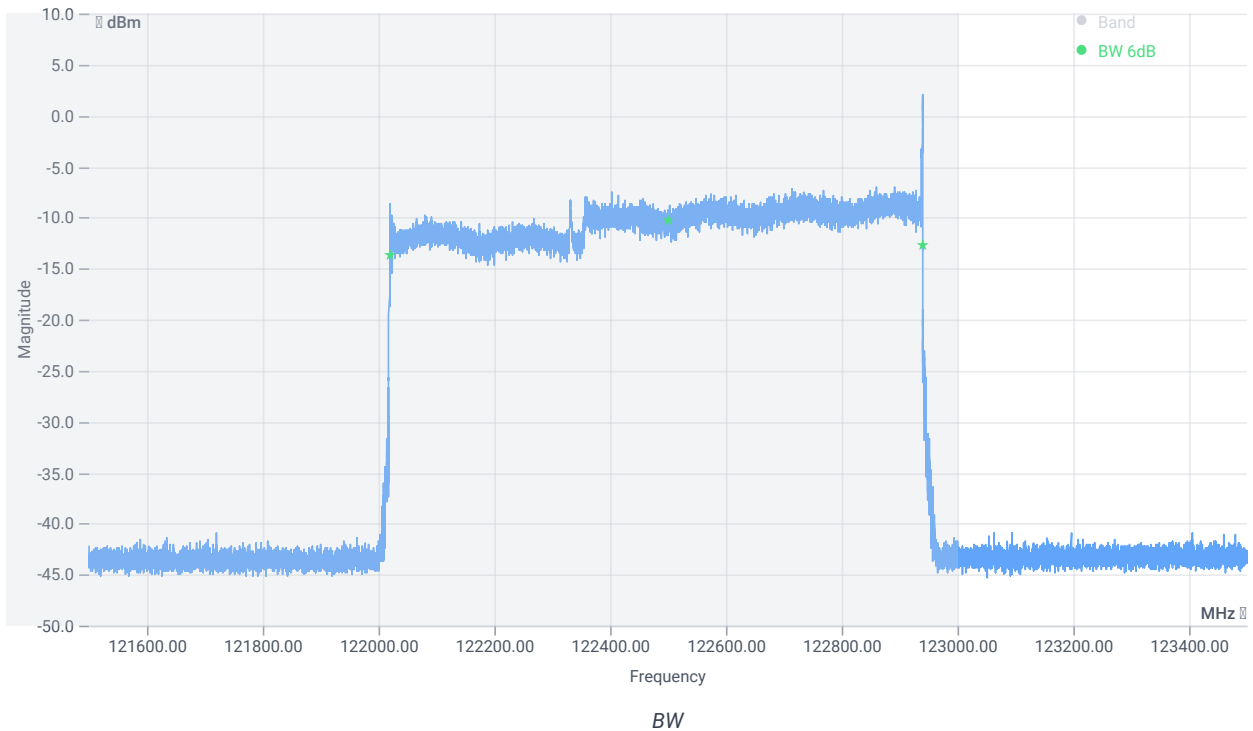
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.8	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122017.7000	MHz	PASS
T2 6dB	---	123000	122939.5000	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



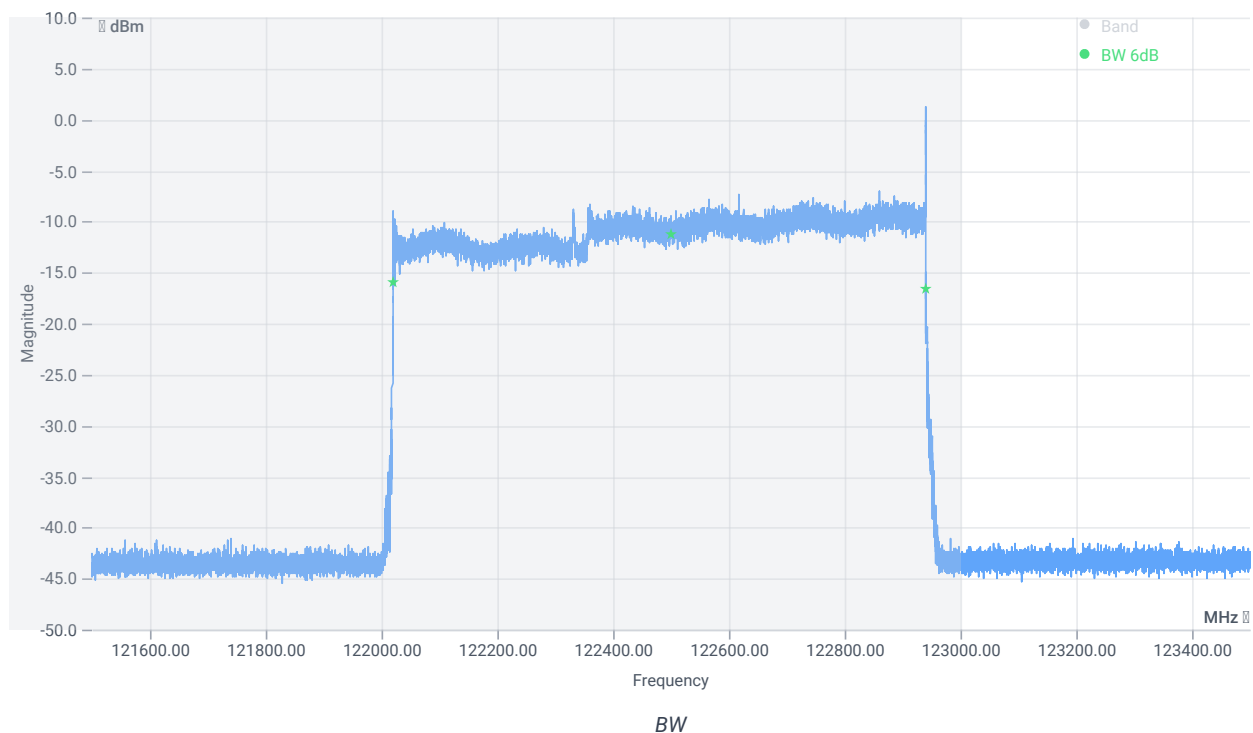
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.5	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122018.8000	MHz	PASS
T2 6dB	---	123000	122940.3000	MHz	PASS

Test for temperature[°C]: 30 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



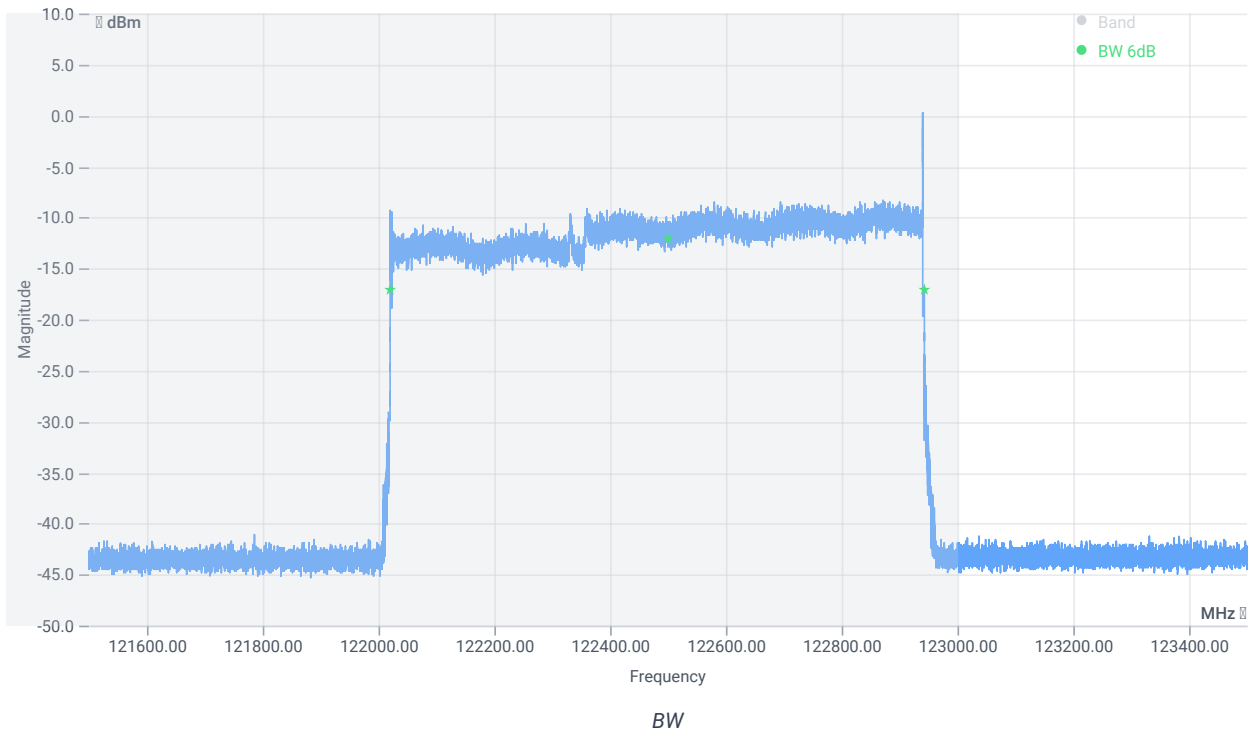
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.8	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122019.4000	MHz	PASS
T2 6dB	---	123000	122941.2000	MHz	PASS

Test for temperature[°C]: 40 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



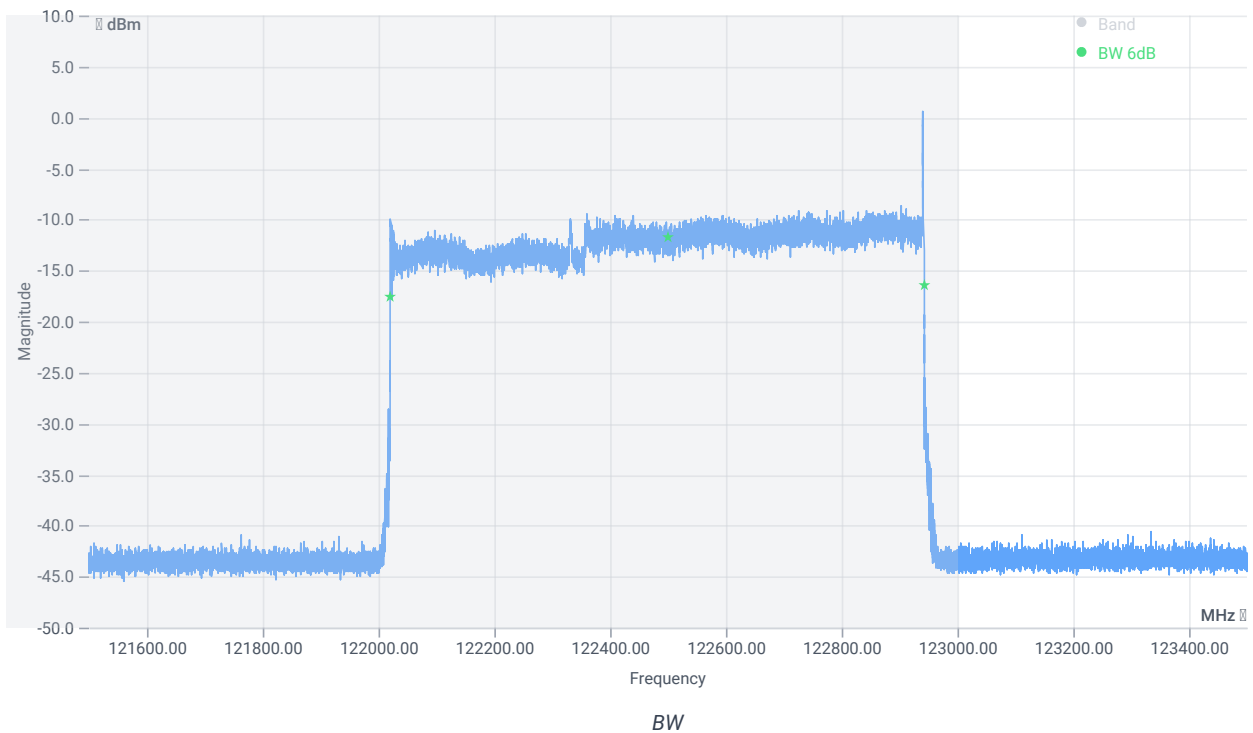
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.8	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122019.7000	MHz	PASS
T2 6dB	---	123000	122941.5000	MHz	PASS

Test for temperature[°C]: 50 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 48.53 10
Start [MHz] Stop [MHz]	121500.000 123500.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	60000 1 20001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 6dB	---	---	921.4	MHz	INFO
Reference freq.	---	---	122500	MHz	INFO
T1 6dB	116000	---	122020.2000	MHz	PASS
T2 6dB	---	123000	122941.6000	MHz	PASS

Verdict

PASS

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