Radiated Test Results

No.23-1-0145601T010_TR1-A201-R1

September 13, 2024

Test Standard(s)	Systems FCC.ISED - NI

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2025.02.10 14:16:31 +01'00'

Authorized

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Radio Labs

Systems FCC.ISED # Frequency stability over temperature & voltage ~ RADAR 77 - 81 GHz 76000-81000 MHz

References

TC start	13.09.2024 17:28:25
Ambit temp [°C] | humidity [rel%]	not enabled | not enabled
System version	5.0.7.6
Standard | Version	Systems FCC.ISED | NI
Method	
Description	Systems FCC ISED Freq stability over temp/volt
Information	

Equipment

Signal analyzer,Rohde&Schwarz,FSW-67,1312.8000K67/104023,6.00
Power supply,HEWLETT-PACKARD,E3632A,0,1.2-5.0-1.0
Climatic box,Voetsch,VT4002,56604682,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]: 12

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE

BW

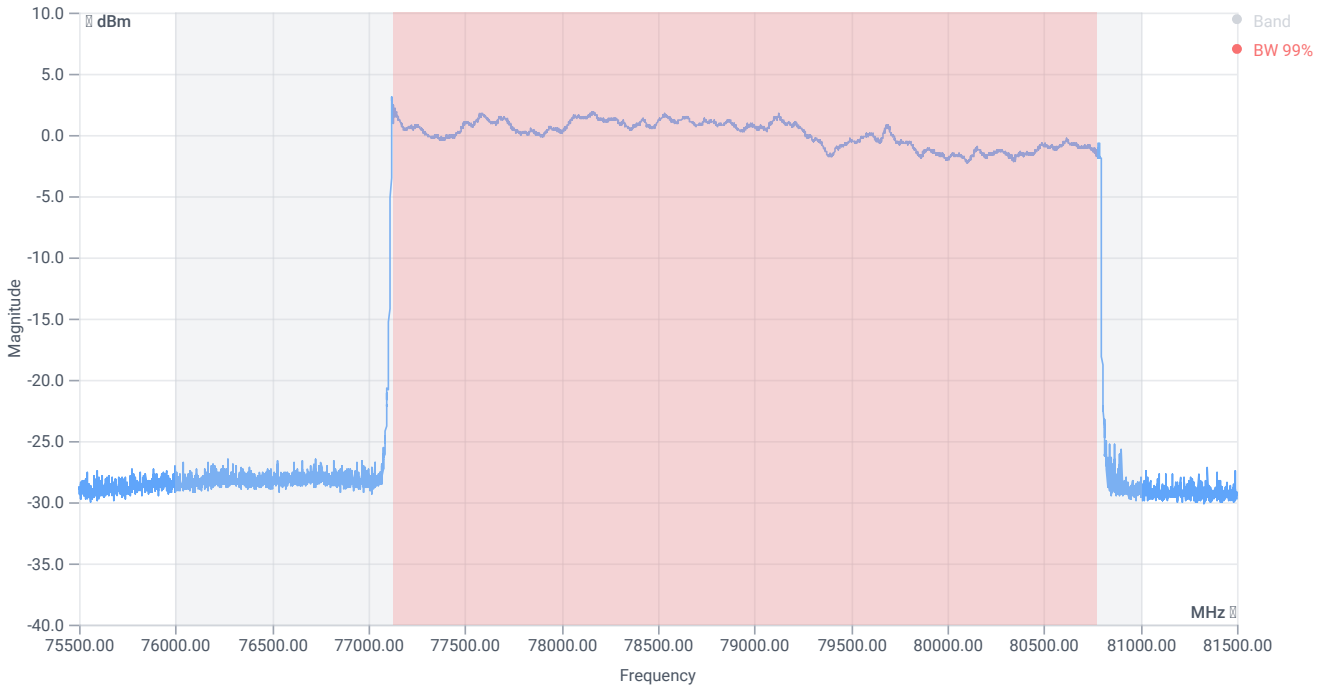
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3644.217	MHz	INFO
T1 99%	76000	---	77126.6398	MHz	PASS
T2 99%	---	81000	80770.8571	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 10.2

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



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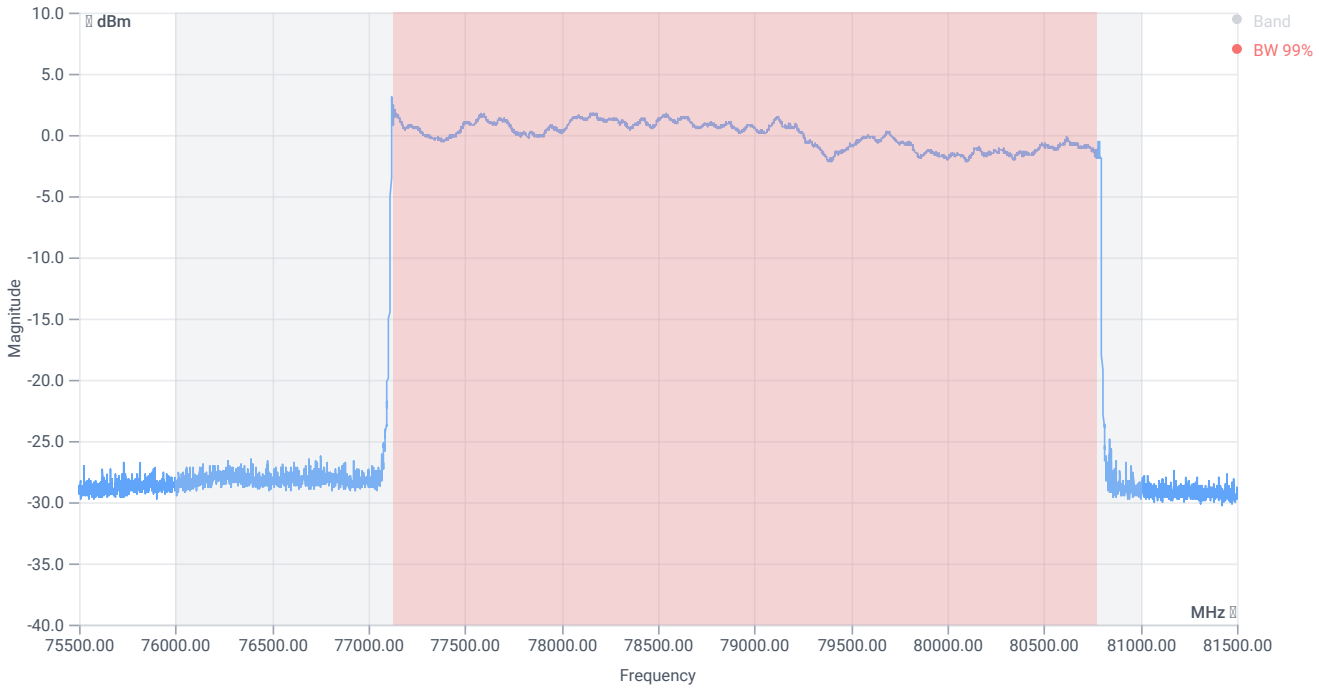
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3642.986	MHz	INFO
T1 99%	76000	---	77126.9684	MHz	PASS
T2 99%	---	81000	80769.9547	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



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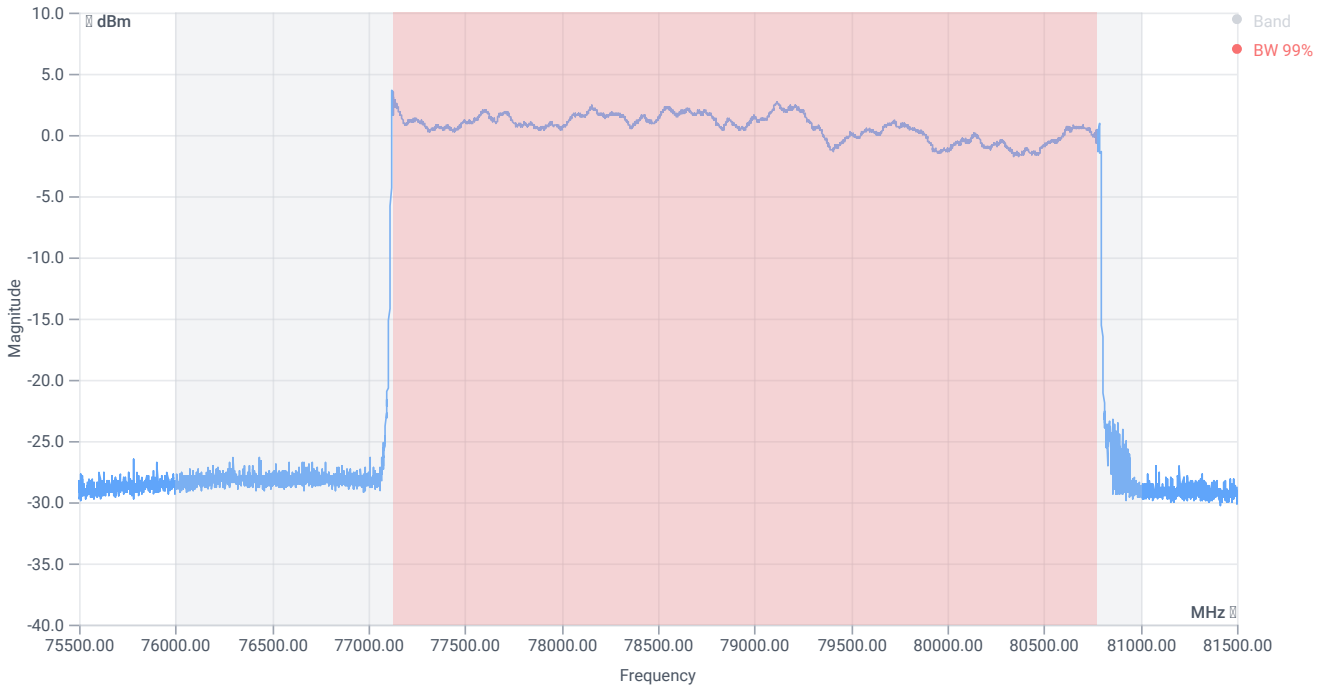
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3643.483	MHz	INFO
T1 99%	76000	---	77126.8654	MHz	PASS
T2 99%	---	81000	80770.3481	MHz	PASS

Test for temperature[°C]: -20 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



BW

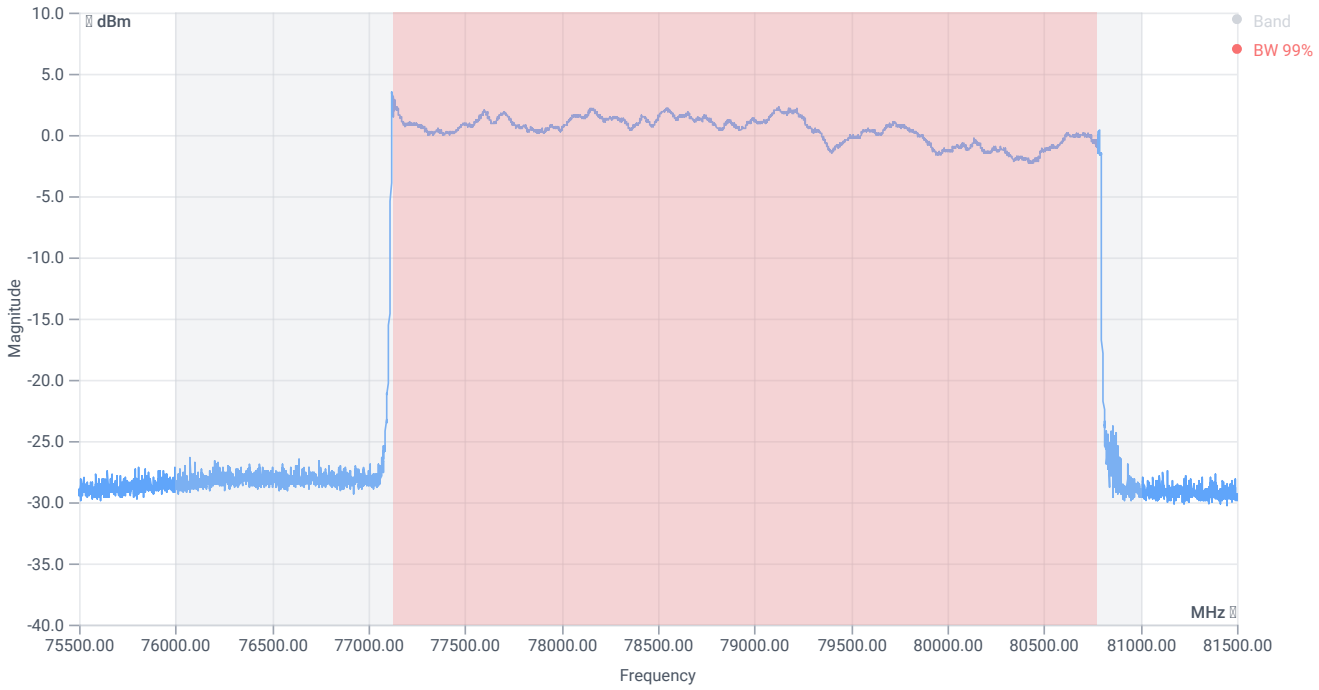
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3646.606	MHz	INFO
T1 99%	76000	---	77127.9171	MHz	PASS
T2 99%	---	81000	80774.5231	MHz	PASS

Test for temperature[°C]: -10 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



BW

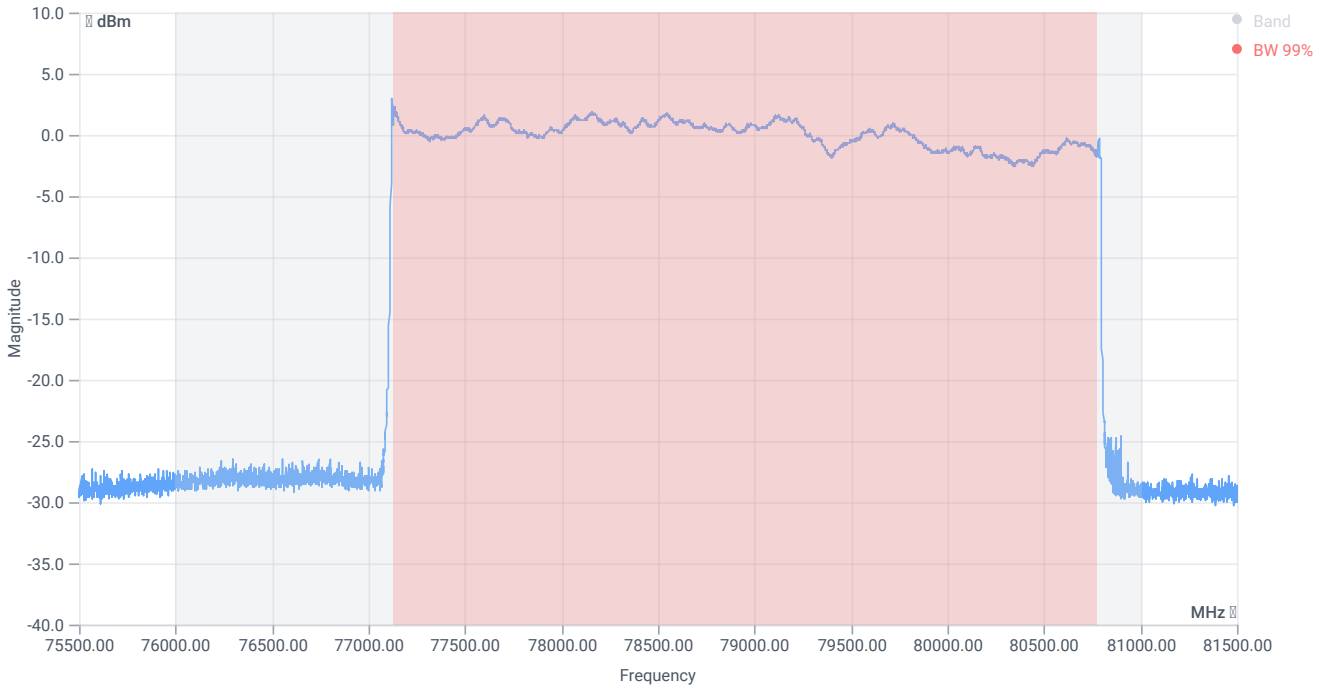
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3645.680	MHz	INFO
T1 99%	76000	---	77127.2810	MHz	PASS
T2 99%	---	81000	80772.9615	MHz	PASS

Test for temperature[°C]: 0 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



BW

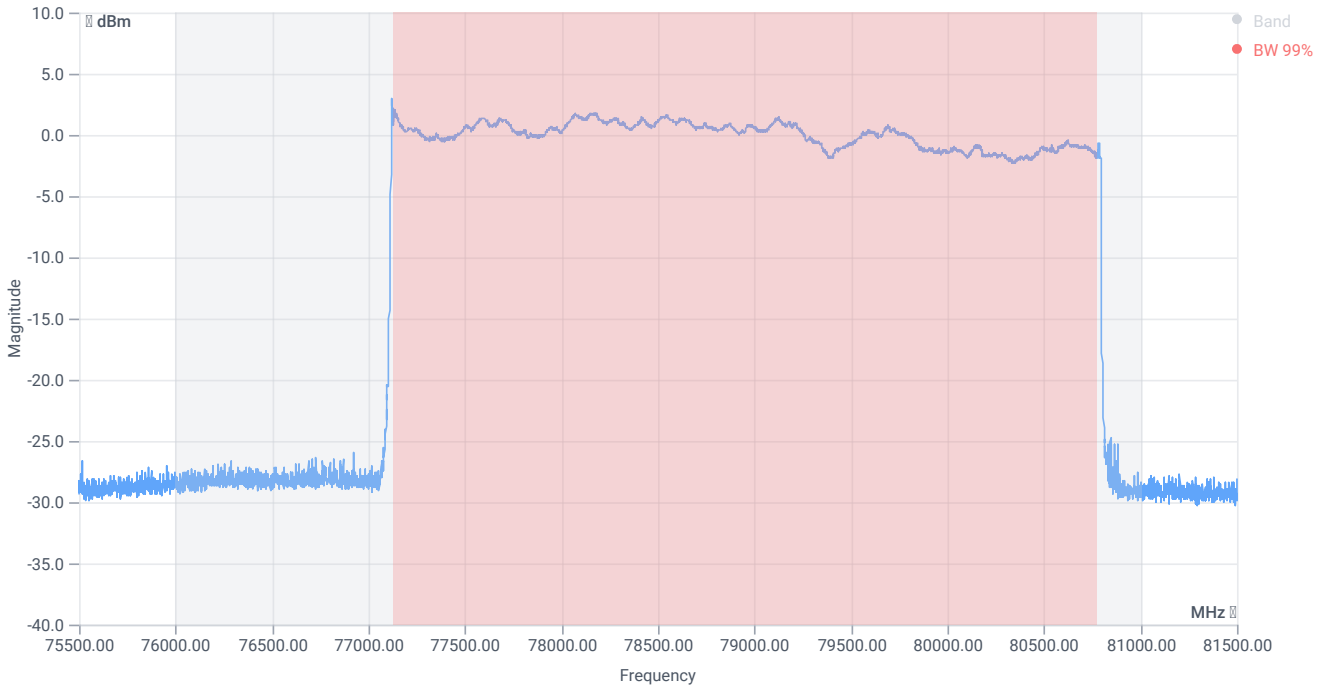
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3644.096	MHz	INFO
T1 99%	76000	---	77127.4044	MHz	PASS
T2 99%	---	81000	80771.5008	MHz	PASS

Test for temperature[°C]: 10 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



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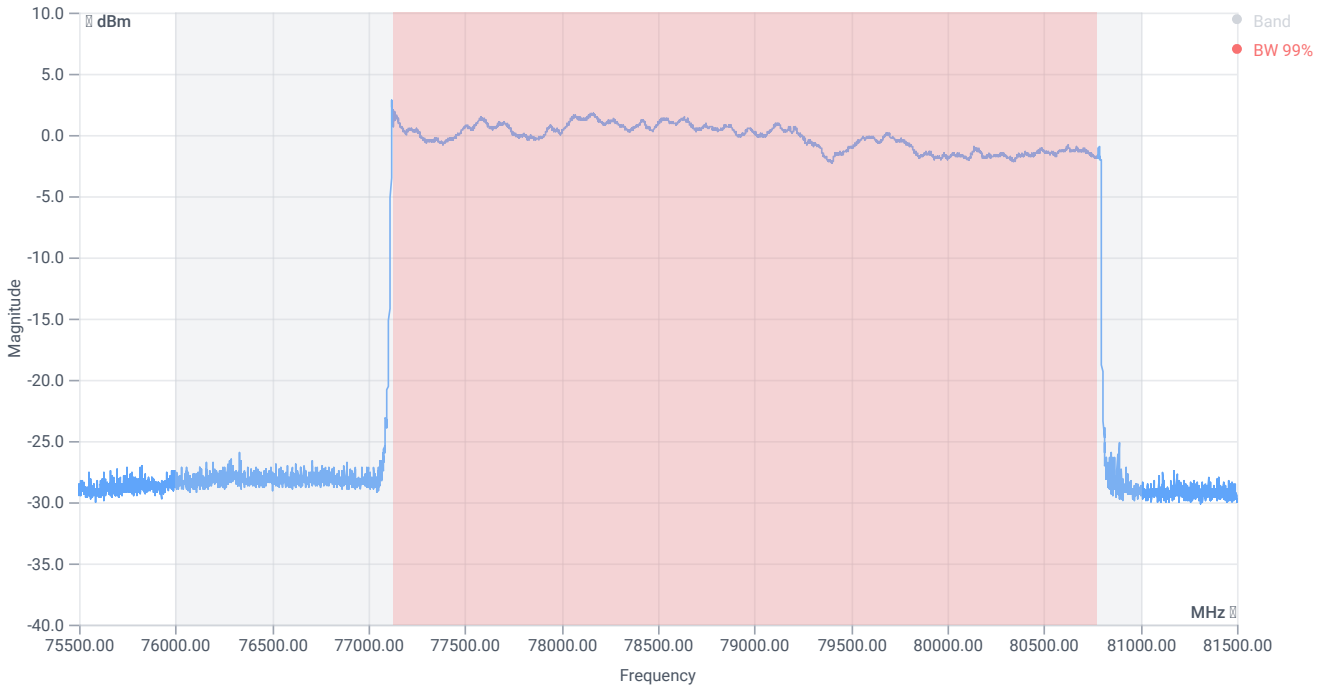
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3642.854	MHz	INFO
T1 99%	76000	---	77126.9813	MHz	PASS
T2 99%	---	81000	80769.8348	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



BW

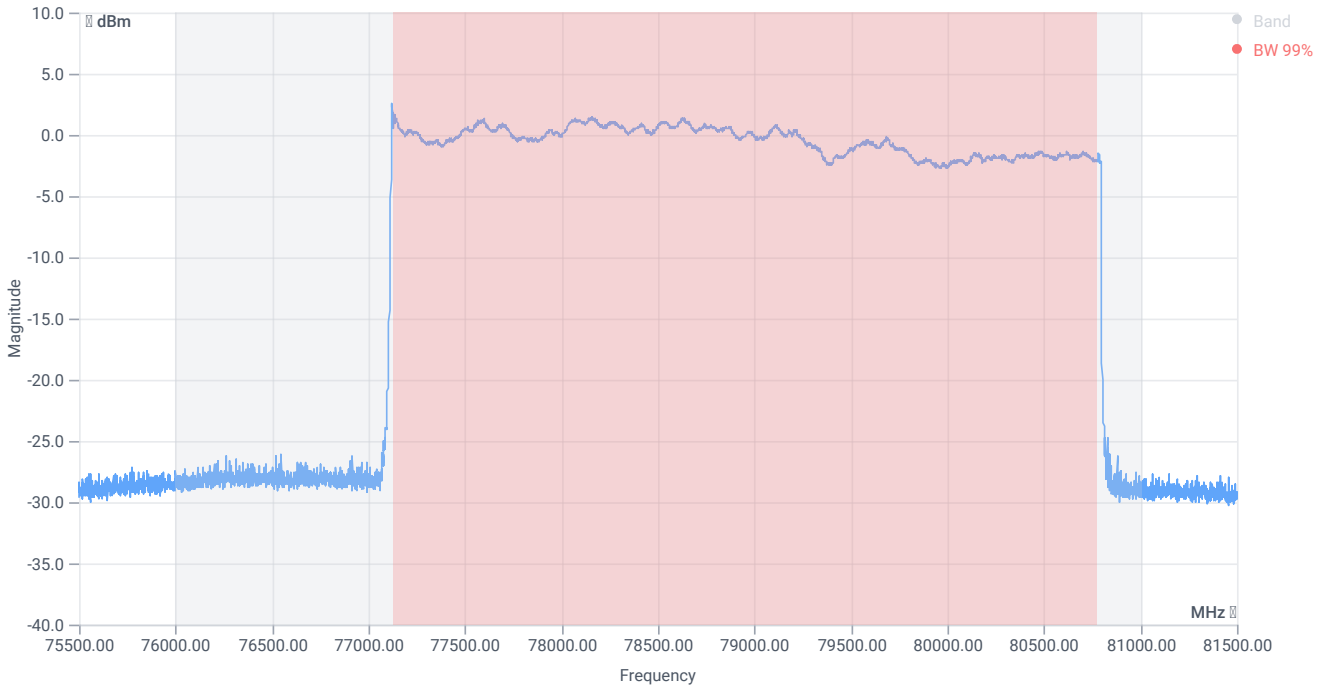
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3642.572	MHz	INFO
T1 99%	76000	---	77126.6476	MHz	PASS
T2 99%	---	81000	80769.2192	MHz	PASS

Test for temperature[°C]: 30 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



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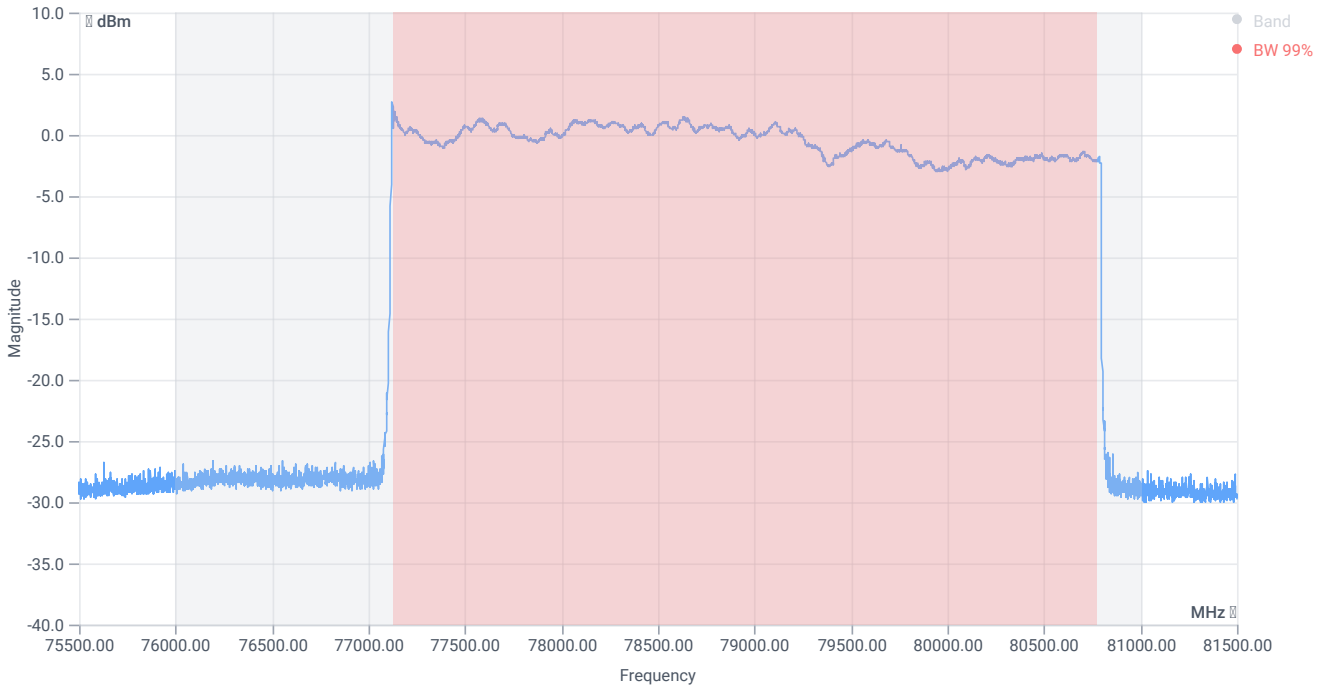
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3643.562	MHz	INFO
T1 99%	76000	---	77126.1116	MHz	PASS
T2 99%	---	81000	80769.6736	MHz	PASS

Test for temperature[°C]: 40 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



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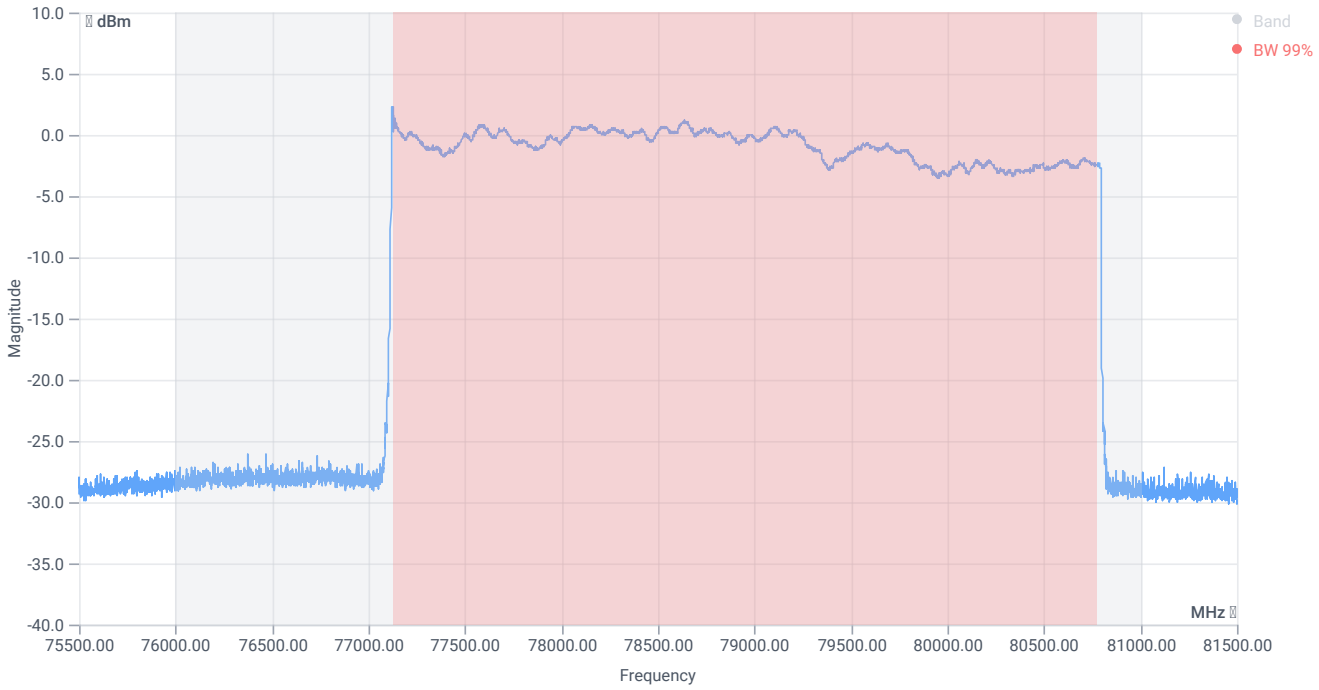
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3643.136	MHz	INFO
T1 99%	76000	---	77126.1820	MHz	PASS
T2 99%	---	81000	80769.3177	MHz	PASS

Test for temperature[°C]: 50 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	-4.00 | 0 | 6
Start [MHz] | Stop [MHz]	75500.000 | 81500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	240000 | 1 | 6001 | SWE



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RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3642.650	MHz	INFO
T1 99%	76000	---	77126.9148	MHz	PASS
T2 99%	---	81000	80769.5652	MHz	PASS

Verdict

PASS

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