

Climatic test results

No.23-1-0012601T007_TR1-A201-R01

August 20, 2024

Test Standard(s)

Systems FCC.ISED - NI

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Systems FCC.ISED # Frequency stability over temperature & voltage ~ RADAR 60G/ 'Data transmission (Other) 57000-64000 MHz

References

TC start	19.08.2024 13:28:58
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

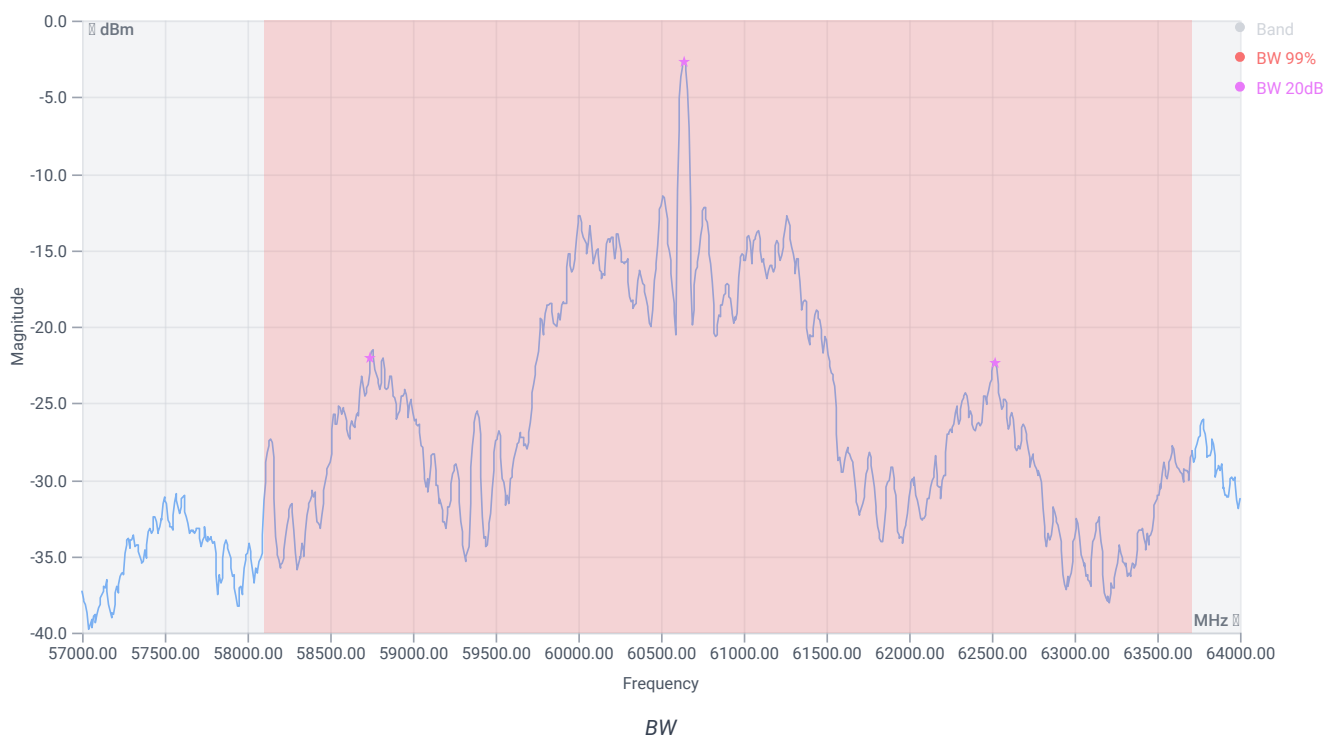
Test Parameter

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]: 24

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5602.453	MHz	INFO
T1 99%	57000	---	58103.5040	MHz	PASS
T2 99%	---	64000	63705.9567	MHz	PASS

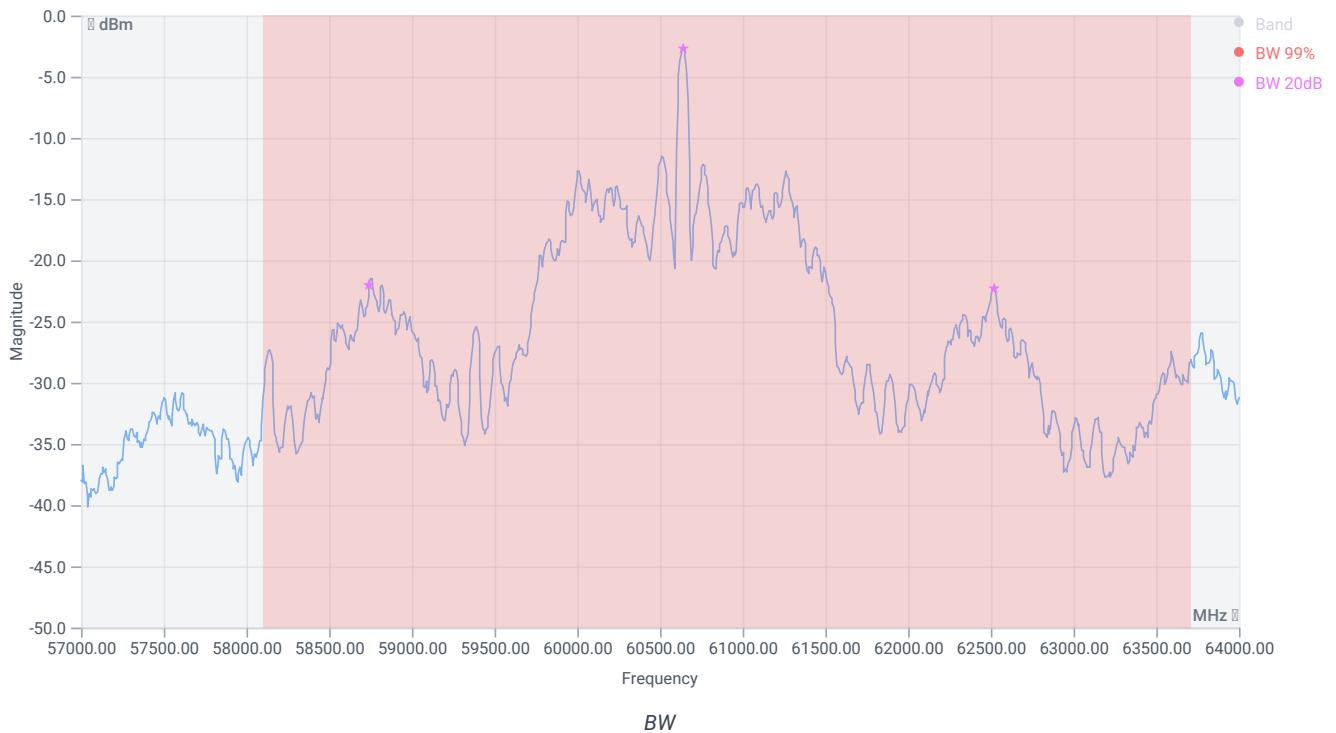
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3780	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	62523.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5605.191	MHz	INFO
T1 99%	57000	---	58101.9835	MHz	PASS
T2 99%	---	64000	63707.1744	MHz	PASS

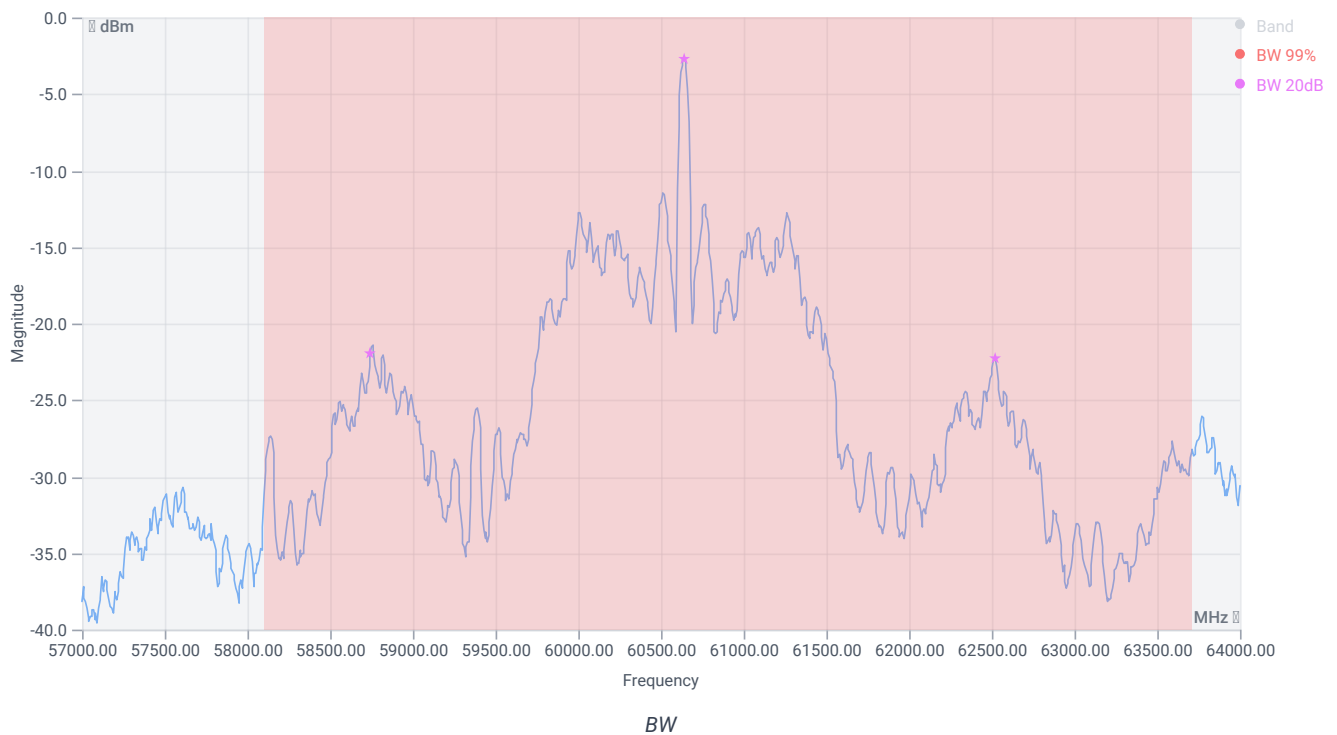
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3780	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	62523.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5609.241	MHz	INFO
T1 99%	57000	---	58096.6129	MHz	PASS
T2 99%	---	64000	63705.8535	MHz	PASS

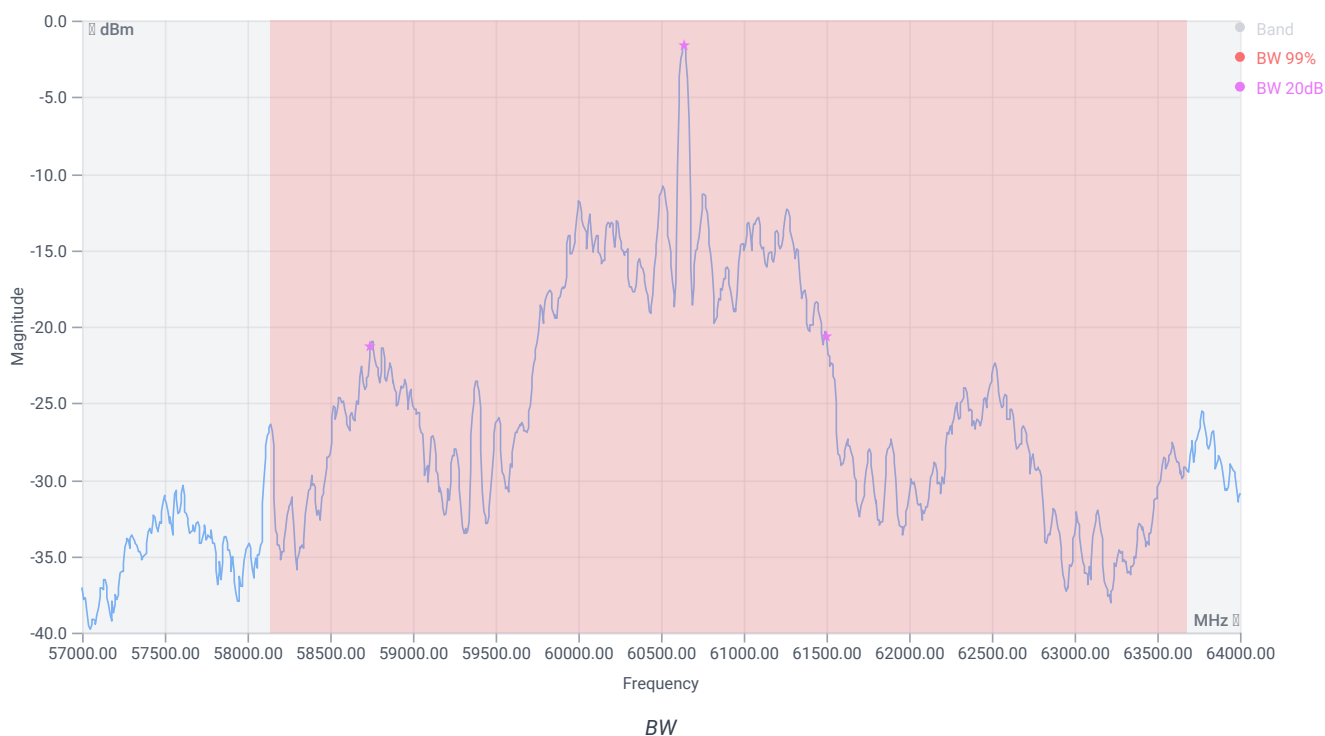
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3780	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	62523.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5540.420	MHz	INFO
T1 99%	57000	---	58139.8270	MHz	PASS
T2 99%	---	64000	63680.2471	MHz	PASS

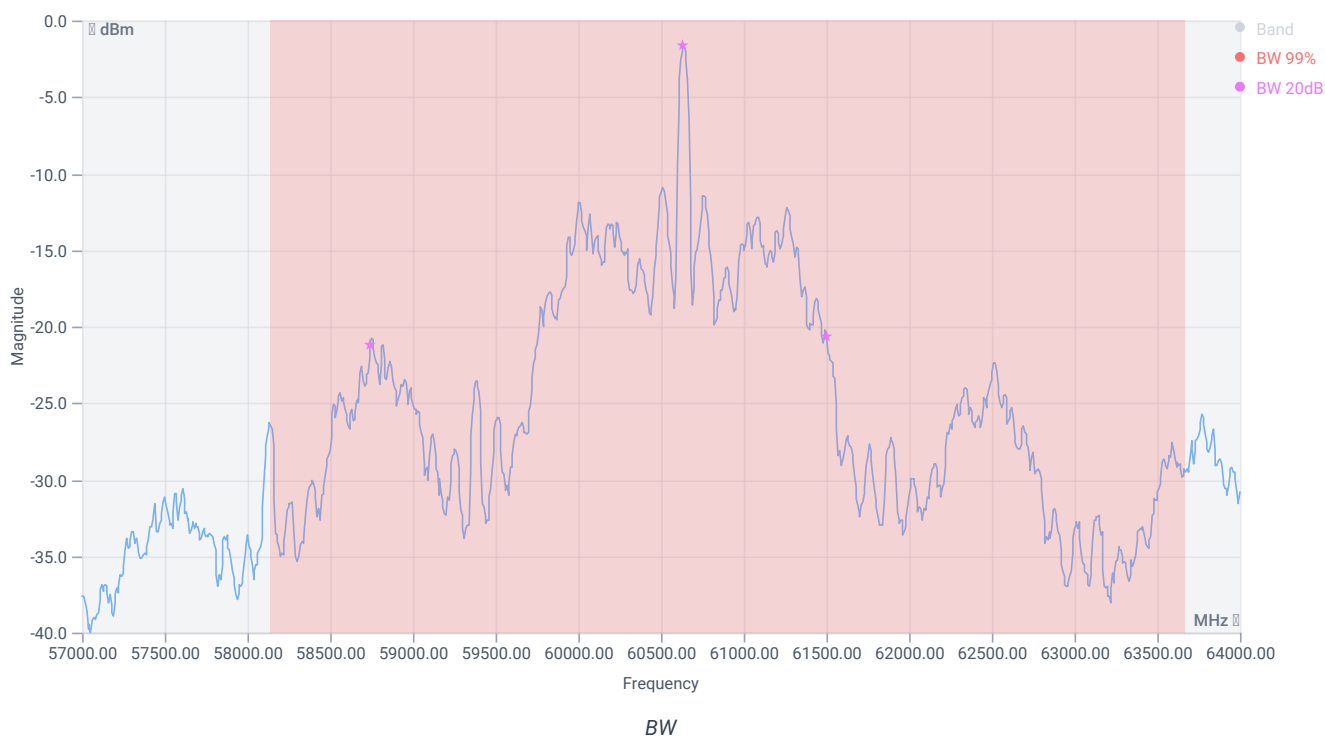
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	2758	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	61501.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5532.368	MHz	INFO
T1 99%	57000	---	58137.3973	MHz	PASS
T2 99%	---	64000	63669.7657	MHz	PASS

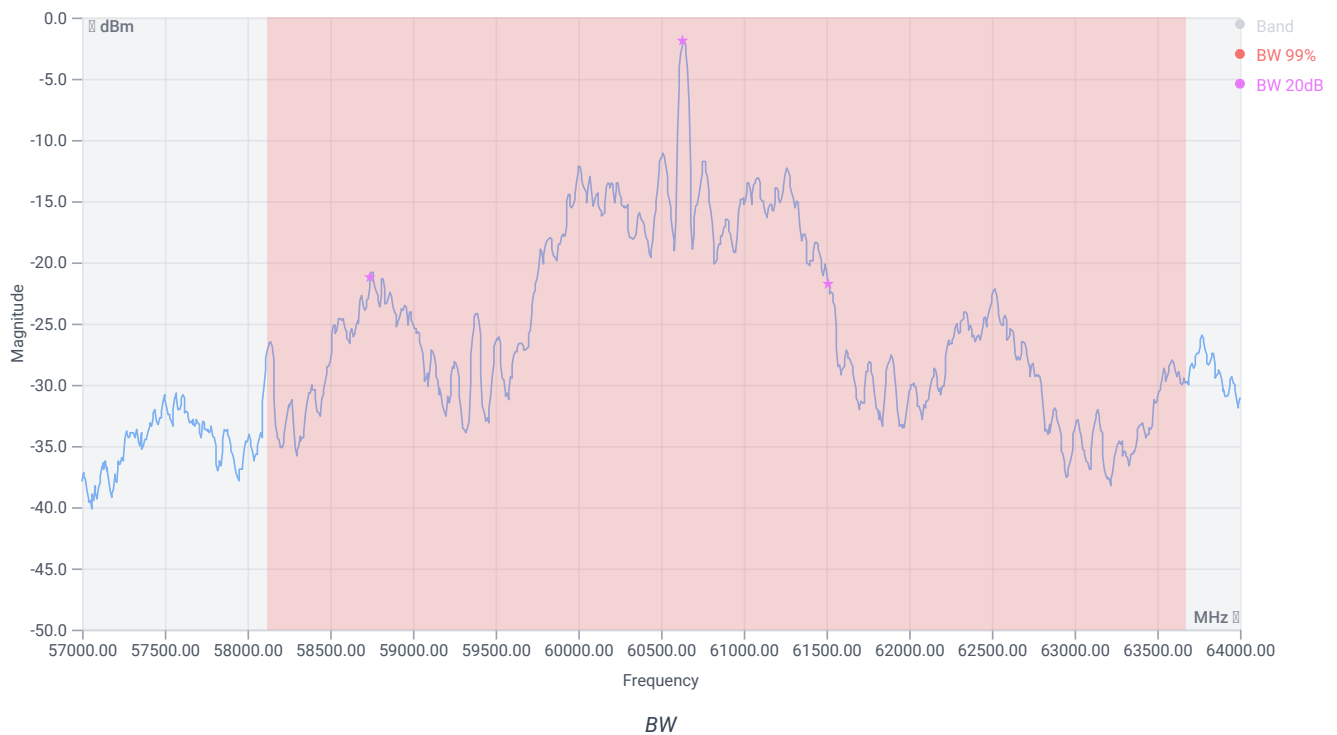
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	2758	MHz	INFO
Reference freq.	---	---	60633	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	61501.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5543.981	MHz	INFO
T1 99%	57000	---	58124.7233	MHz	PASS
T2 99%	---	64000	63668.7046	MHz	PASS

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	2765	MHz	INFO
Reference freq.	---	---	60633	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	61508.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5578.780	MHz	INFO
T1 99%	57000	---	58112.7916	MHz	PASS
T2 99%	---	64000	63691.5711	MHz	PASS

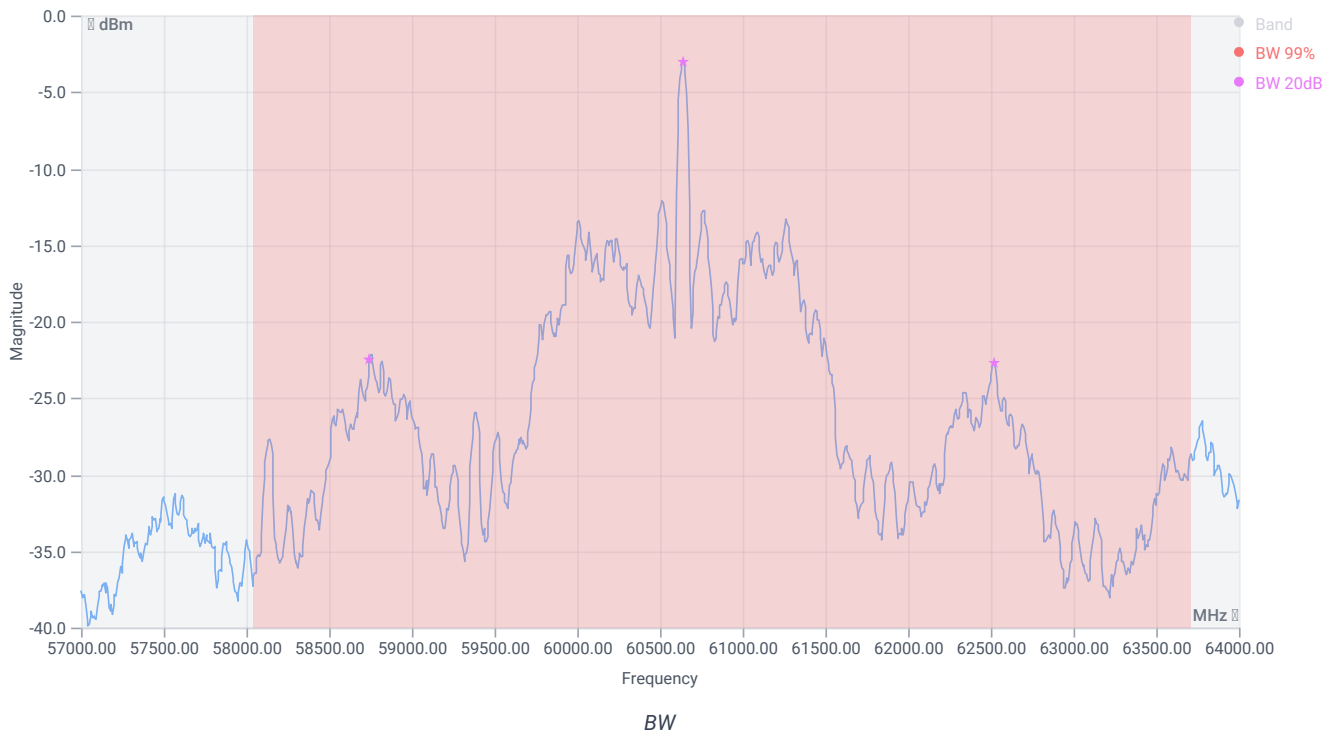
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3780	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	62523.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5667.559	MHz	INFO
T1 99%	57000	---	58044.3130	MHz	PASS
T2 99%	---	64000	63711.8723	MHz	PASS

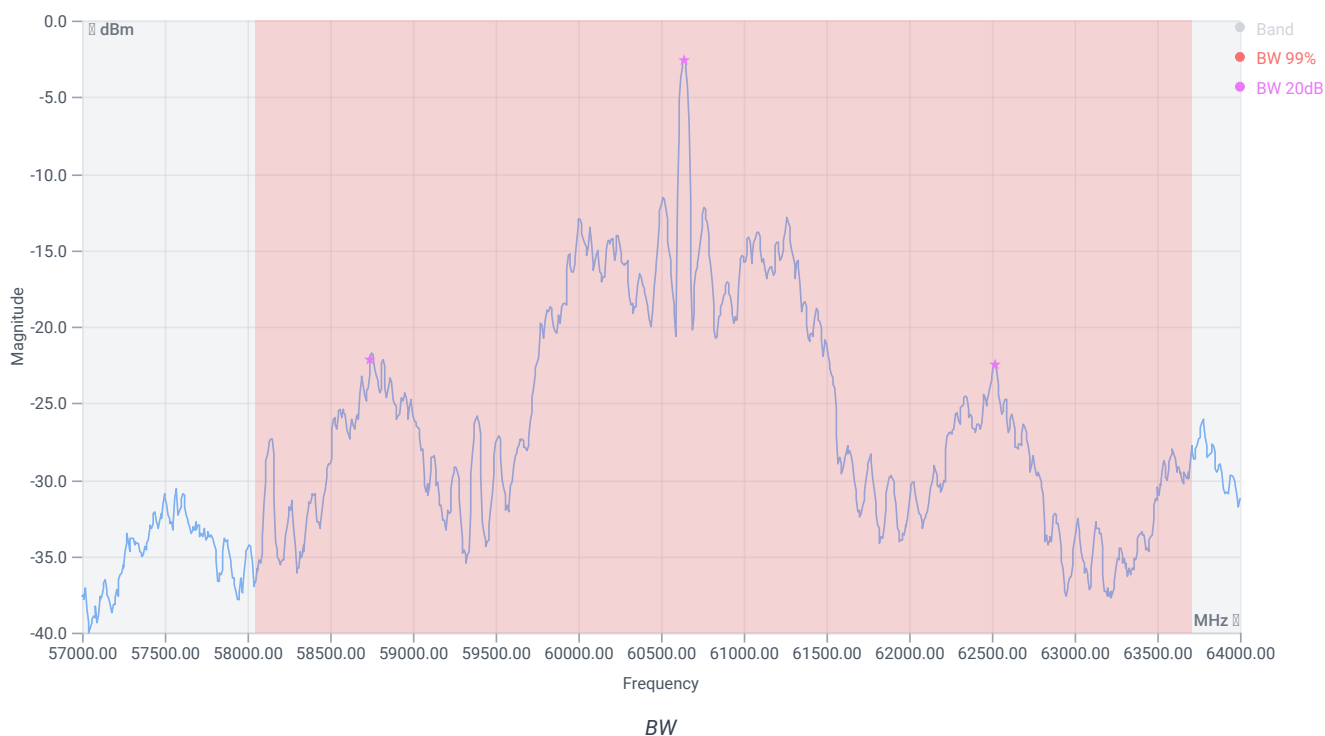
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3780	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	62523.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5661.220	MHz	INFO
T1 99%	57000	---	58048.7767	MHz	PASS
T2 99%	---	64000	63709.9966	MHz	PASS

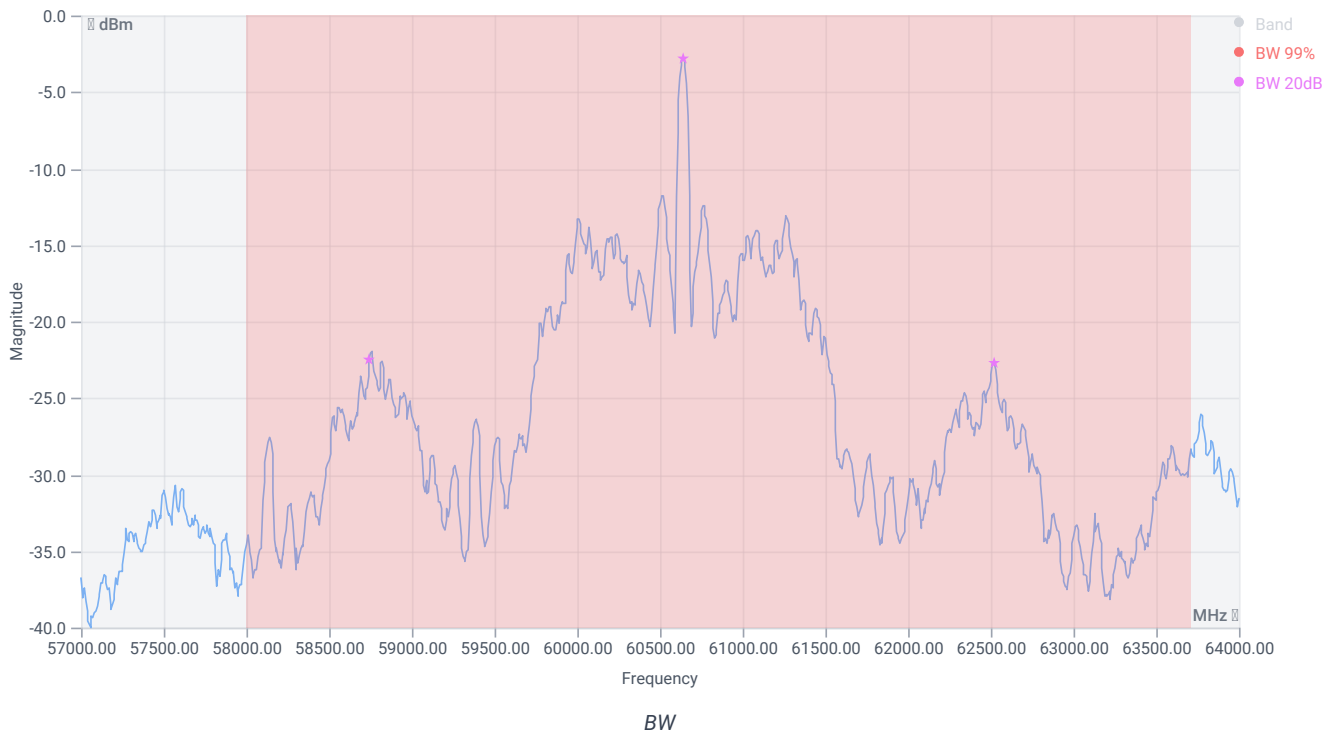
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3780	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	62523.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5715.823	MHz	INFO
T1 99%	57000	---	57997.7811	MHz	PASS
T2 99%	---	64000	63713.6042	MHz	PASS

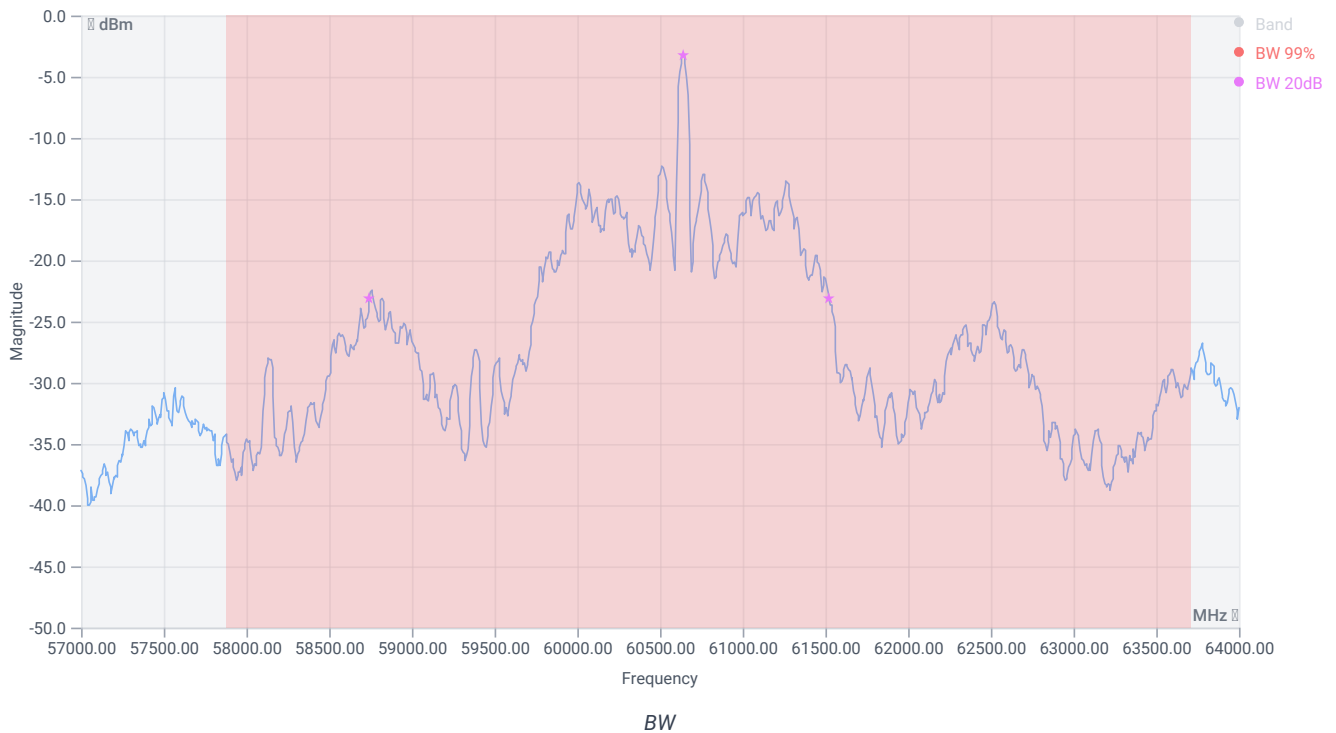
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3780	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	62523.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 6
Start [MHz] Stop [MHz]	57000.000 64000.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	18000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	5830.718	MHz	INFO
T1 99%	57000	---	57875.2490	MHz	PASS
T2 99%	---	64000	63705.9666	MHz	PASS

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	2779	MHz	INFO
Reference freq.	---	---	60640	MHz	INFO
T1 20dB	57000	---	58743.0000	MHz	PASS
T2 20dB	---	64000	61522.0000	MHz	PASS

Verdict

PASS

- END OF DOCUMENT -