



427 West 12800 South  
Draper, UT 84020

## Test Report Attachment

<b>FCC ID</b>	SWX-WAVEPC
<b>ISED ID</b>	6545A-WAVEPC
<b>Equipment Under Test</b>	Wave-Pico
<b>Test Report Serial Number</b>	TR8617_01
<b>Date of Test</b>	17 January 2024
<b>Report Issue Date</b>	17 January 2024

### Test Personnel

<b>Testing performed by</b>	Tyler Parry
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### Test Location

Testing was performed at the Unified Compliance Laboratory located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2024. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2024. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.



# 1 UNII-1 Band 99% Bandwidth

## 1.1 Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5165.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5165.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5200.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5200.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5240.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5240.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5175.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5175.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5200.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5200.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5230.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5230.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5195.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5195.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	5200.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5200.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	5210.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5210.000	24.0	80.000000	PASS

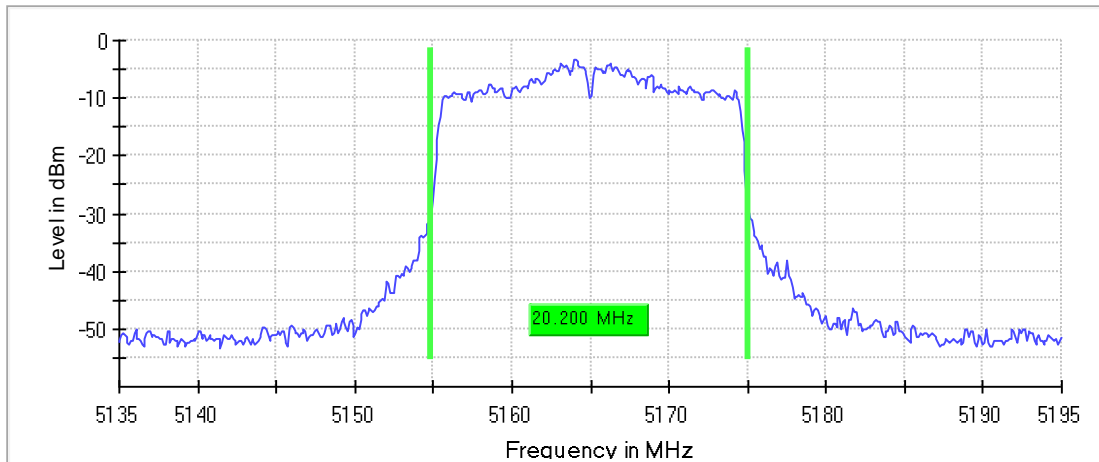
## Emission Bandwidth 26 dB (5165 MHz; 24.000 dBm; 20 MHz)

### 26 dB Bandwidth

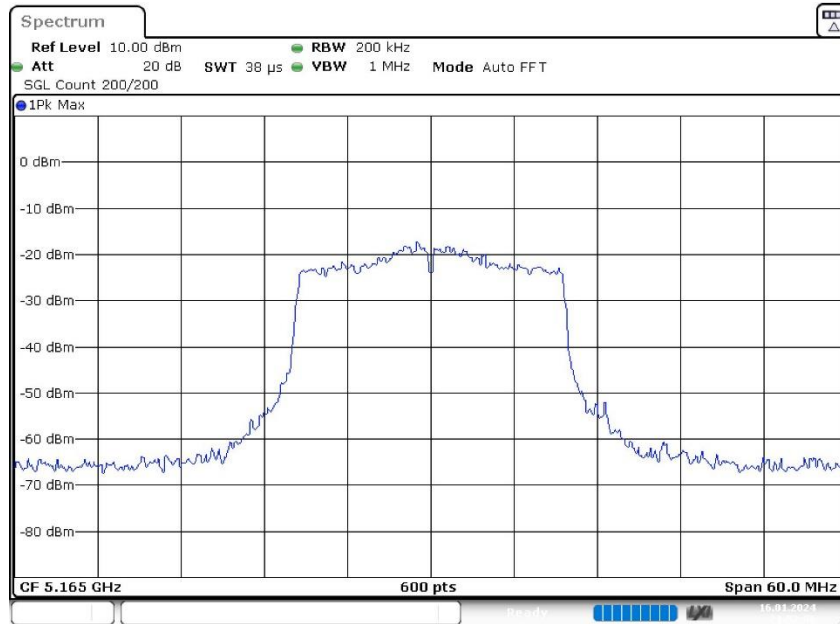
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5165.000000	20.200000	---	---	5154.850000	5175.050000

DUT Frequency (MHz)	Max Level (dBm)	Result
5165.000000	-3.2	PASS

26 dB Bandwidth



Bandwidth



Date: 16.JAN.2024 23:52:06

### Measurement

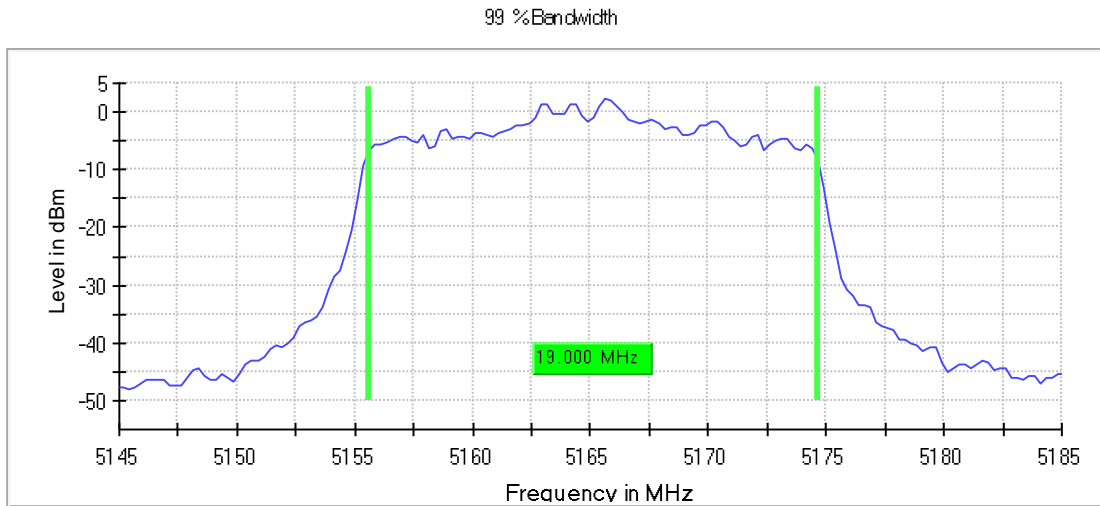
Setting	Instrument Value	Target Value
Start Frequency	5.13500 GHz	5.13500 GHz
Stop Frequency	5.19500 GHz	5.19500 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
SweepTime	37.969 μs	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

**Occupied Channel Bandwidth 99% (5165 MHz; 24.000 dBm; 20 MHz)**

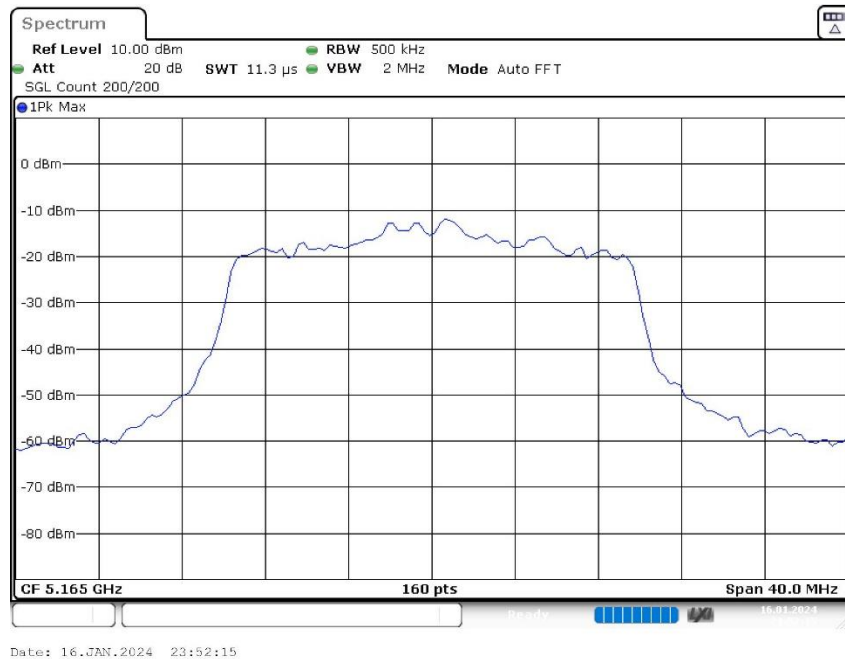
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5165.000000	19.000000	---	---	5155.625000	5174.625000

DUT Frequency (MHz)	Result
5165.000000	PASS



Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.14500 GHz	5.14500 GHz
Stop Frequency	5.18500 GHz	5.18500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160

SweepTime	11.344 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

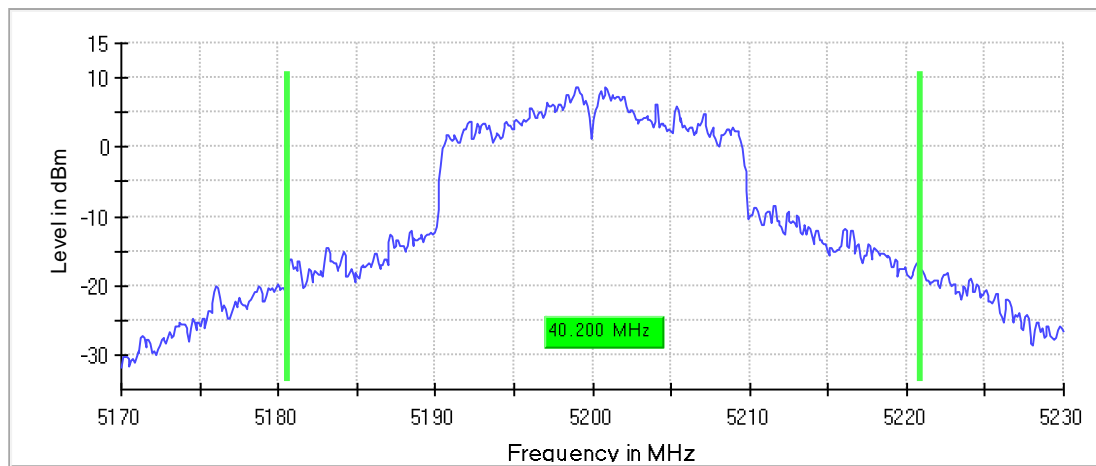
## Emission Bandwidth 26 dB (5200 MHz; 24.000 dBm; 20 MHz)

### 26 dB Bandwidth

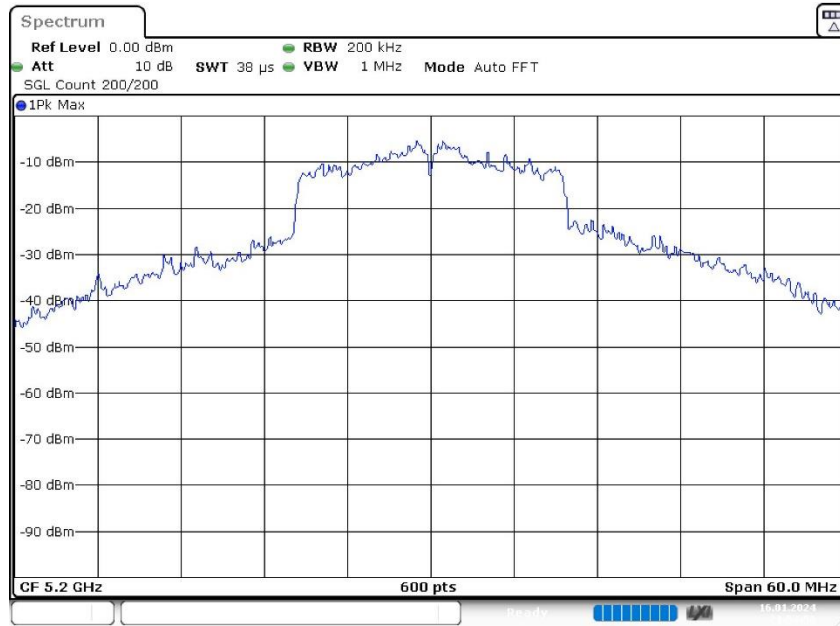
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	40.200000	---	---	5180.650000	5220.850000

DUT Frequency (MHz)	Max Level (dBm)	Result
5200.000000	8.7	PASS

26 dB Bandwidth



Bandwidth



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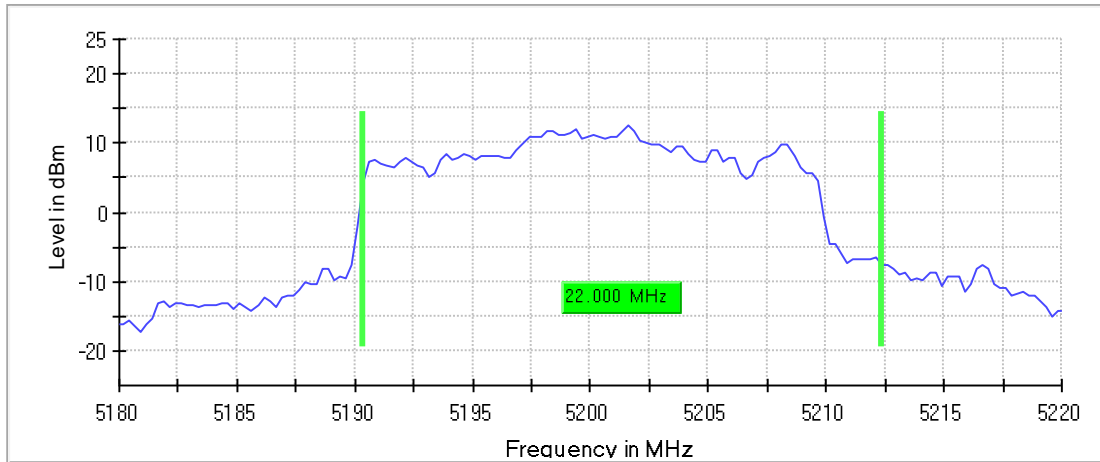
**Occupied Channel Bandwidth 99% (5200 MHz; 24.000 dBm; 20 MHz)**

**99 % Bandwidth**

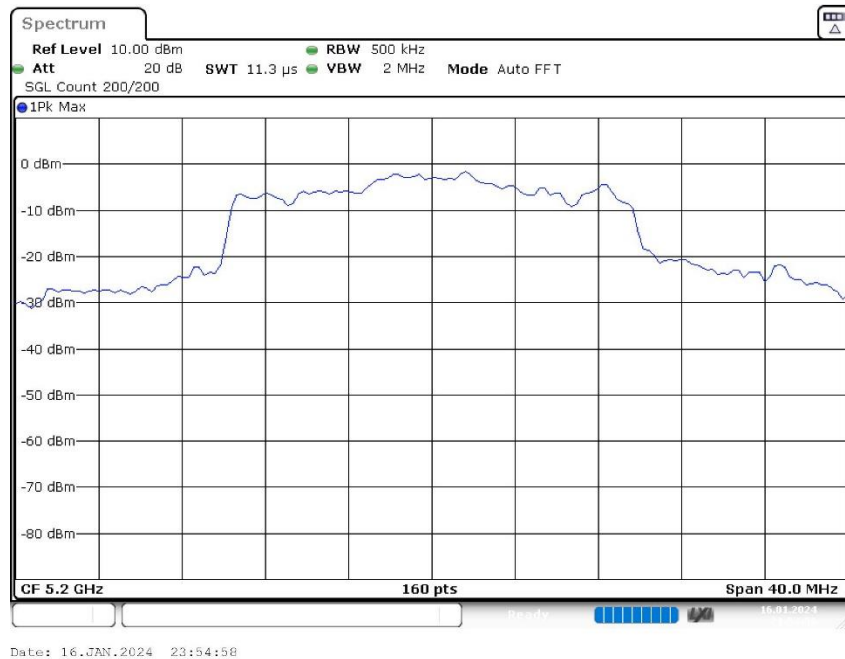
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	22.000000	---	---	5190.375000	5212.375000

DUT Frequency (MHz)	Result
5200.000000	PASS

99 %Bandwidth



Bandwidth



## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160



SweepTime	11.344 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

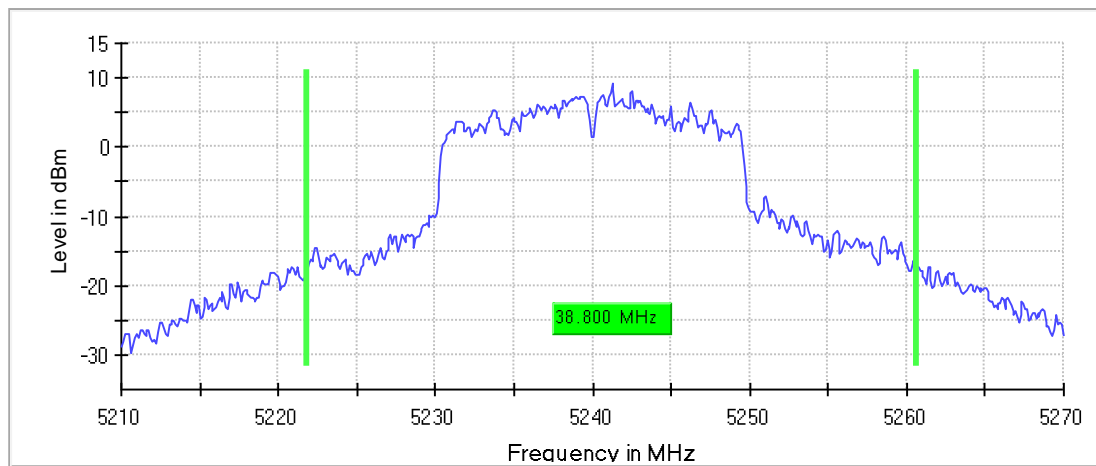
## Emission Bandwidth 26 dB (5240 MHz; 24.000 dBm; 20 MHz)

### 26 dB Bandwidth

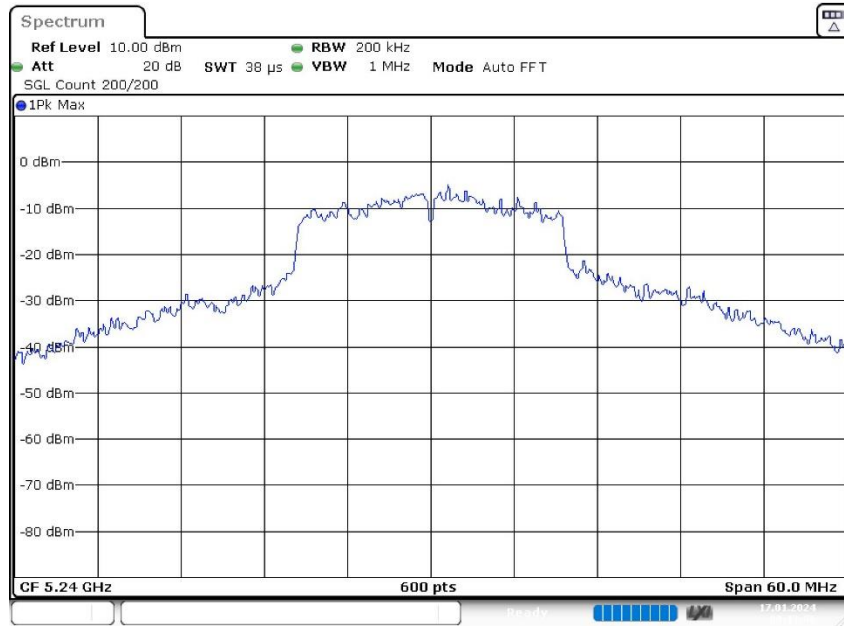
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	38.800000	---	---	5221.850000	5260.650000

DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	9.2	PASS

26 dB Bandwidth



Bandwidth



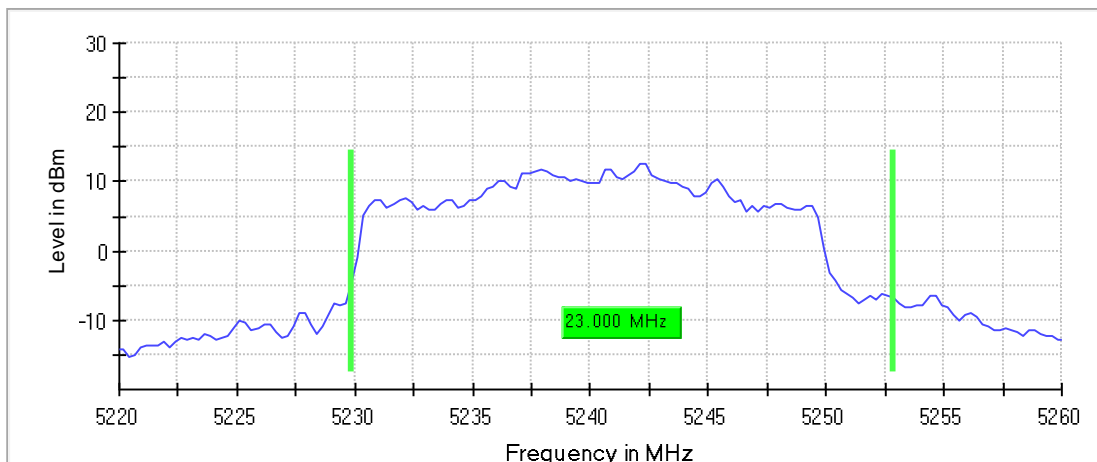
**Occupied Channel Bandwidth 99% (5240 MHz; 24.000 dBm; 20 MHz)**

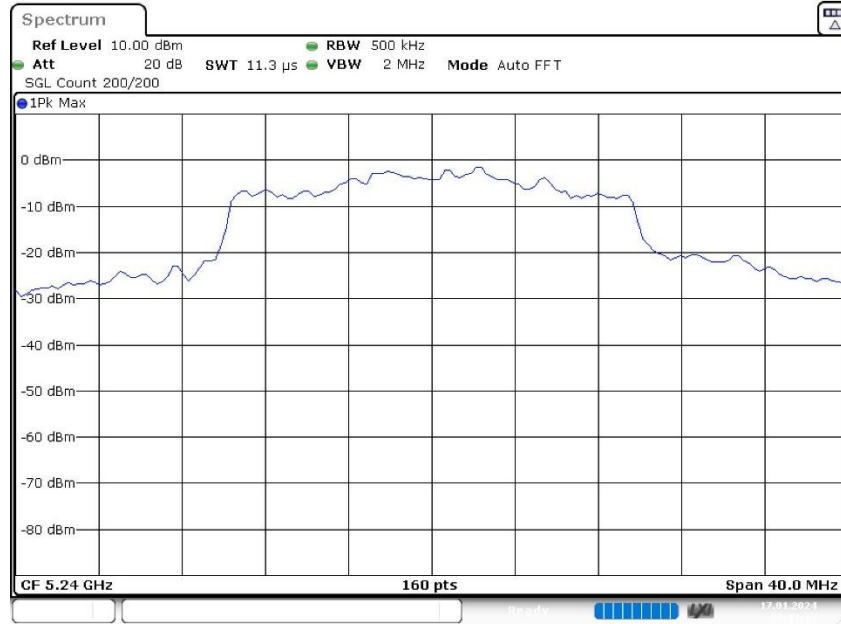
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	23.000000	---	---	5229.875000	5252.875000

DUT Frequency (MHz)	Result
5240.000000	PASS

99 %Bandwidth



**Bandwidth**

**Measurement**

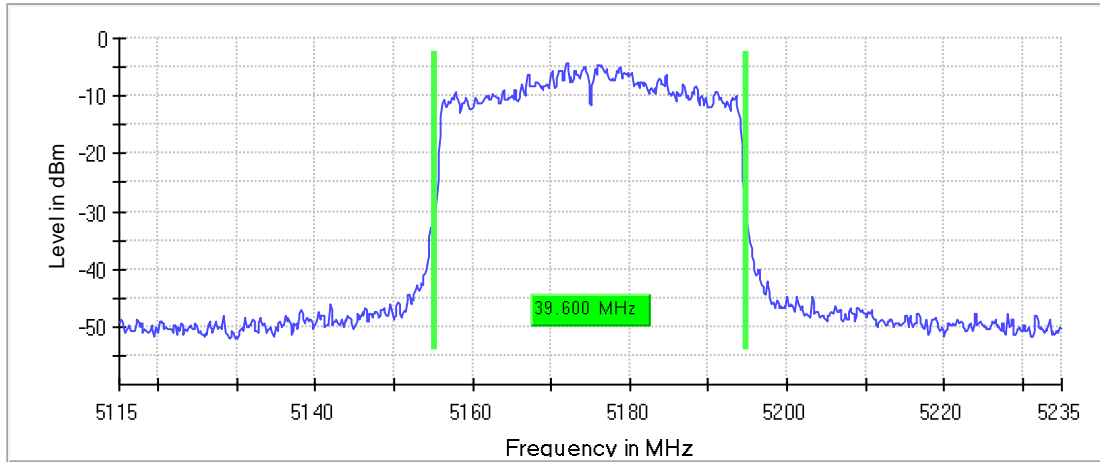
Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	$\geq$ 400.000 kHz
VBW	2.000 MHz	$\geq$ 1.500 MHz
SweepPoints	160	$\sim$ 160
SweepTime	11.344 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

**Emission Bandwidth 26 dB (5175 MHz; 24.000 dBm; 40 MHz)**
**26 dB Bandwidth**

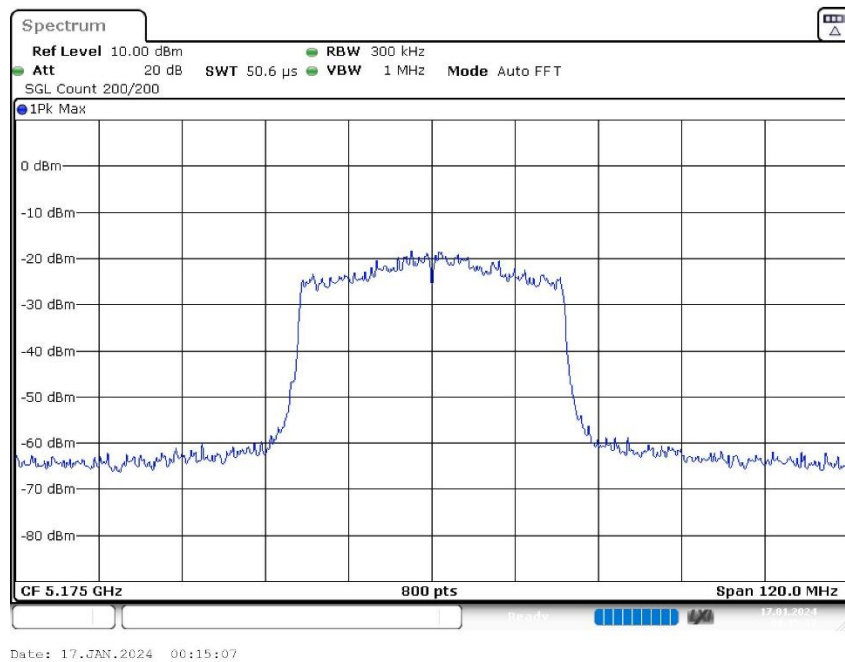
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5175.000000	39.600000	---	---	5155.275000	5194.875000

DUT Frequency (MHz)	Max Level (dBm)	Result
5175.000000	-4.3	PASS

26 dB Bandwidth



Bandwidth

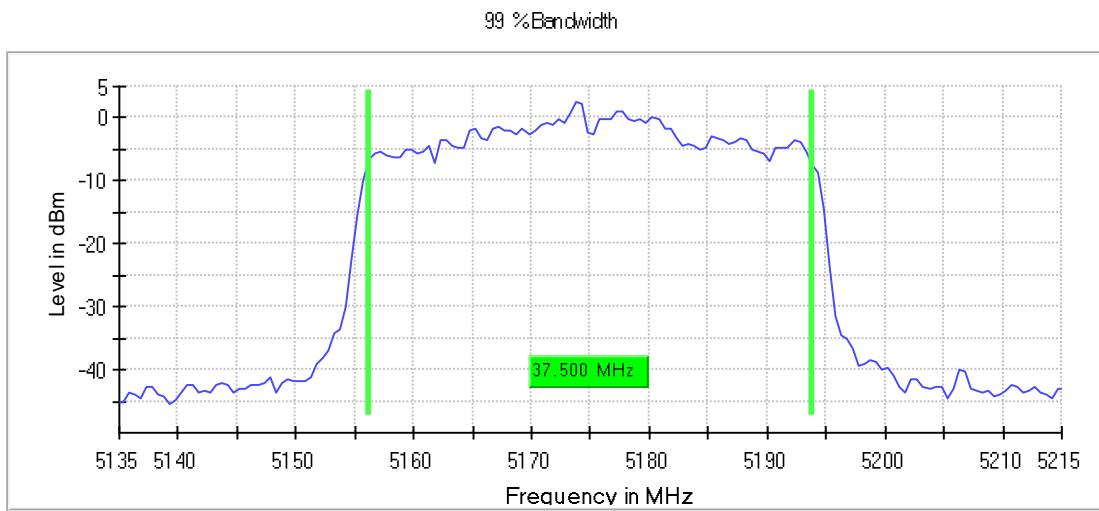


**Occupied Channel Bandwidth 99% (5175 MHz; 24.000 dBm; 40 MHz)**

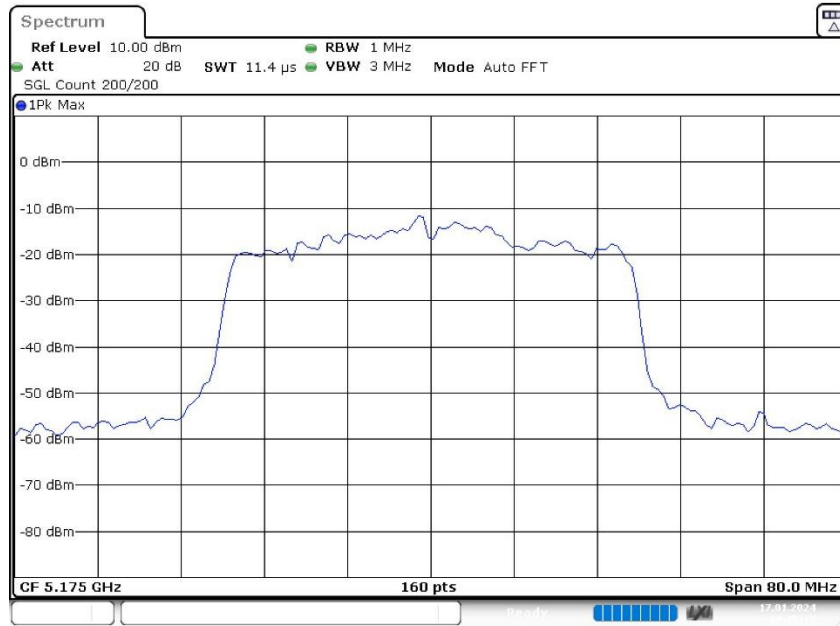
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5175.000000	37.500000	---	---	5156.250000	5193.750000

DUT Frequency (MHz)	Result
5175.000000	PASS



Bandwidth



Date: 17.JAN.2024 00:15:17

## Measurement

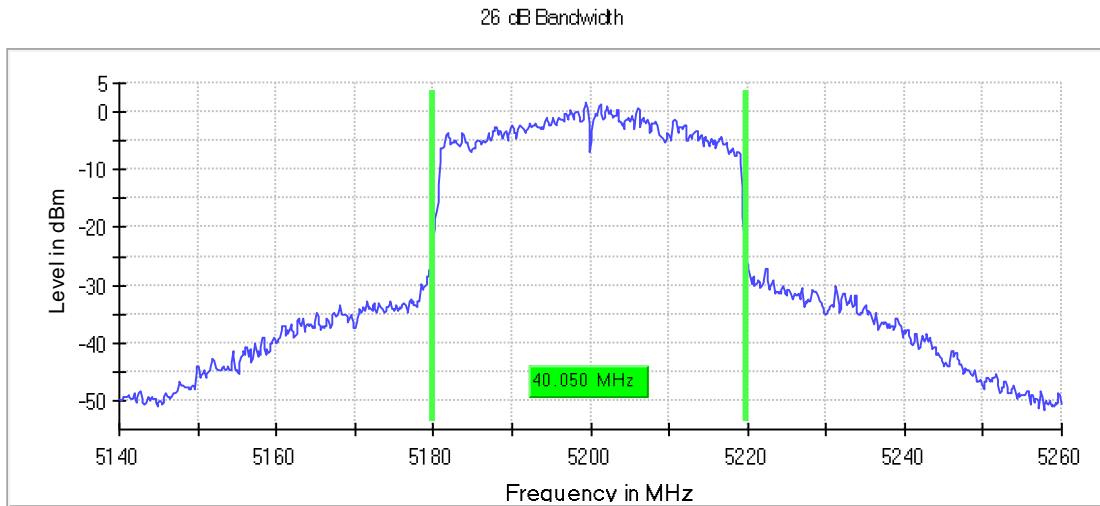
Setting	Instrument Value	Target Value
Start Frequency	5.13500 GHz	5.13500 GHz
Stop Frequency	5.21500 GHz	5.21500 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
Sweeptime	11.438 μs	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Emission Bandwidth 26 dB (5200 MHz; 24.000 dBm; 40 MHz)

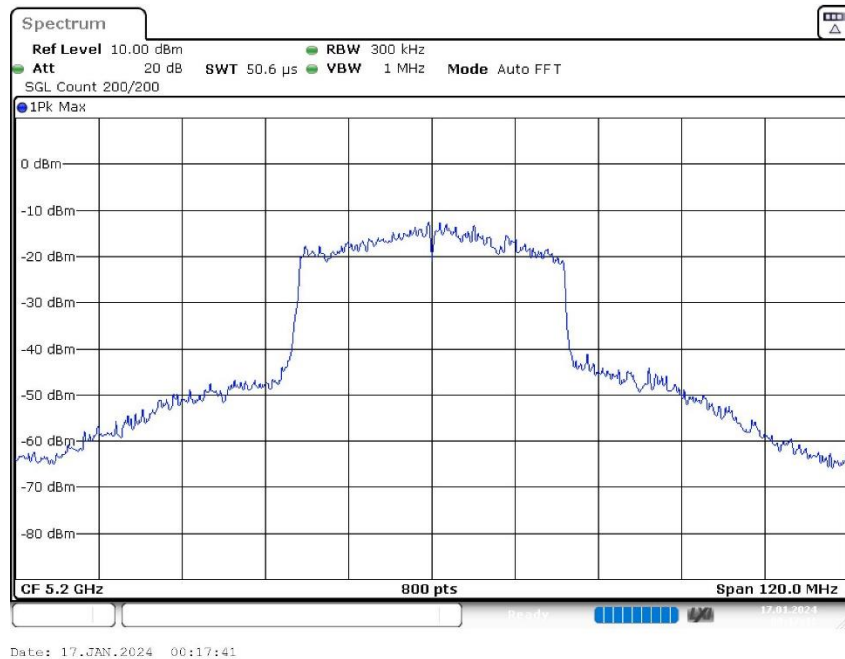
### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	40.050000	---	---	5179.825000	5219.875000

DUT Frequency (MHz)	Max Level (dBm)	Result
5200.000000	1.5	PASS



Bandwidth

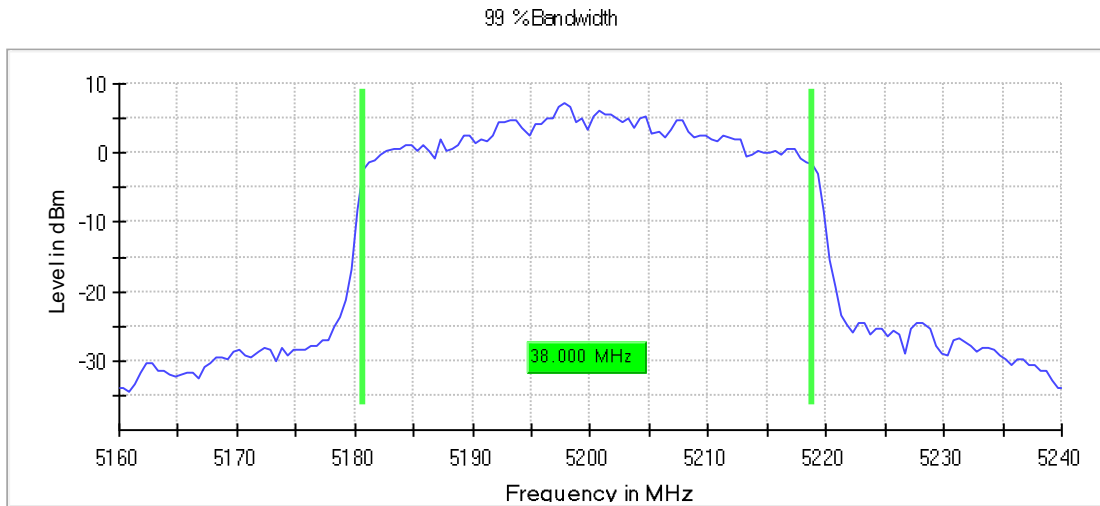


**Occupied Channel Bandwidth 99% (5200 MHz; 24.000 dBm; 40 MHz)**

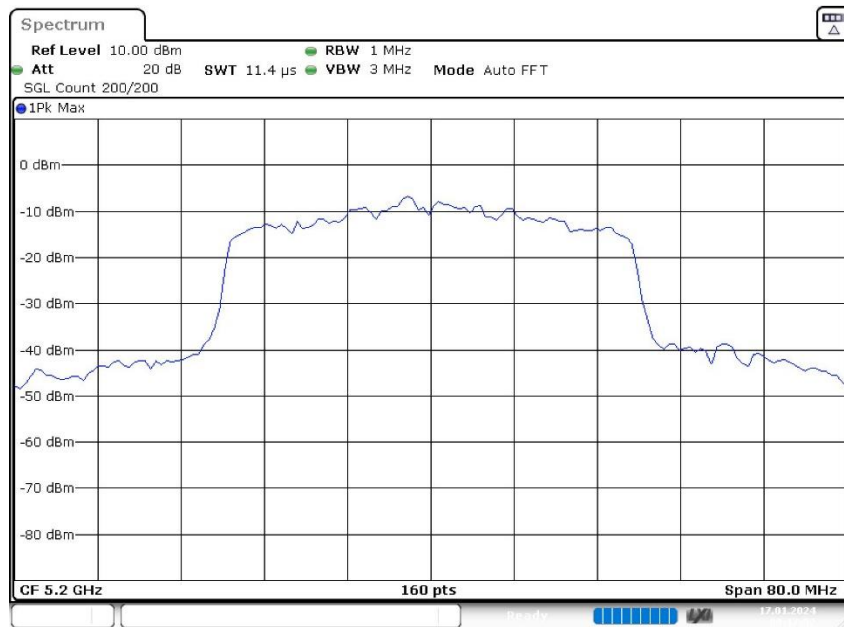
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	38.000000	---	---	5180.750000	5218.750000

DUT Frequency (MHz)	Result
5200.000000	PASS



Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.24000 GHz	5.24000 GHz
Span	80.000 MHz	80.000 MHz



RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	11.438 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

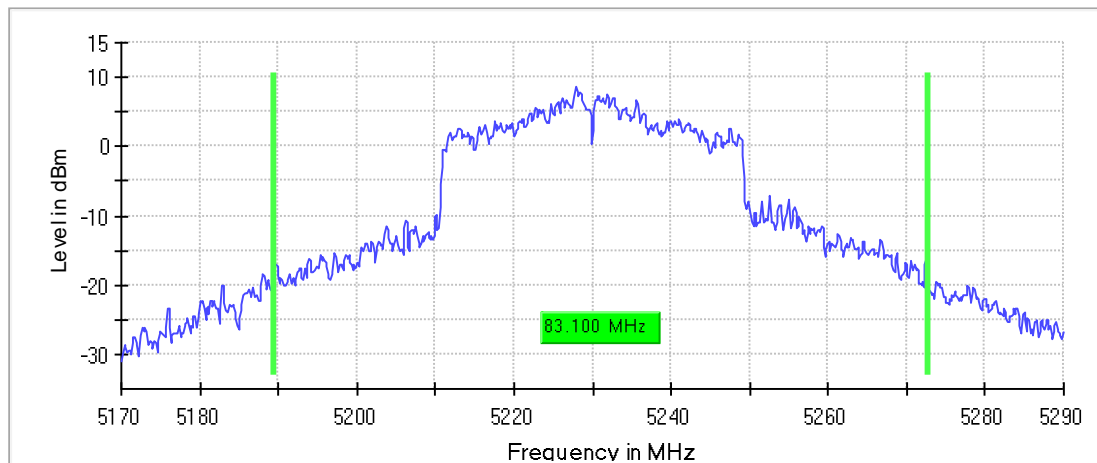
## Emission Bandwidth 26 dB (5230 MHz; 24.000 dBm; 40 MHz)

### 26 dB Bandwidth

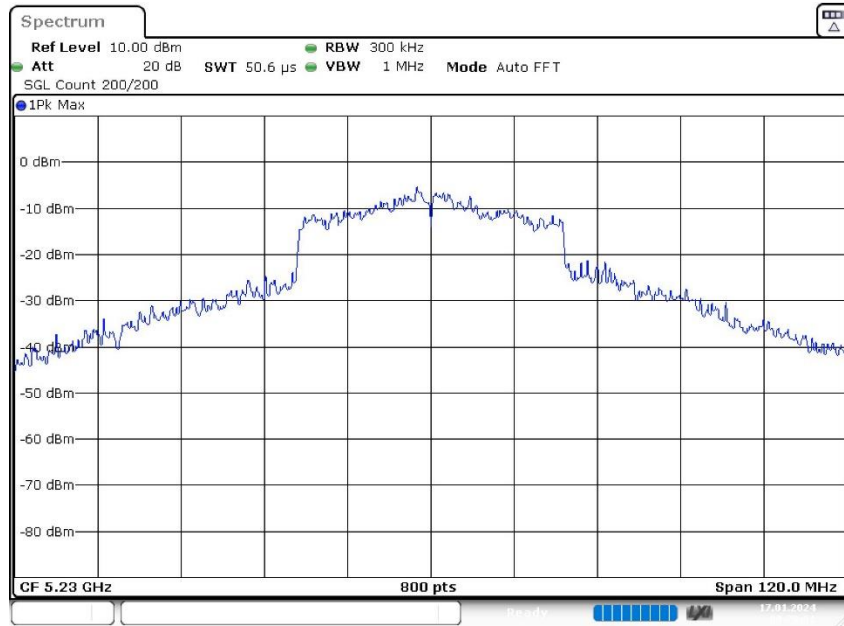
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	83.100000	---	---	5189.575000	5272.675000

DUT Frequency (MHz)	Max Level (dBm)	Result
5230.000000	8.7	PASS

26 dB Bandwidth



Bandwidth



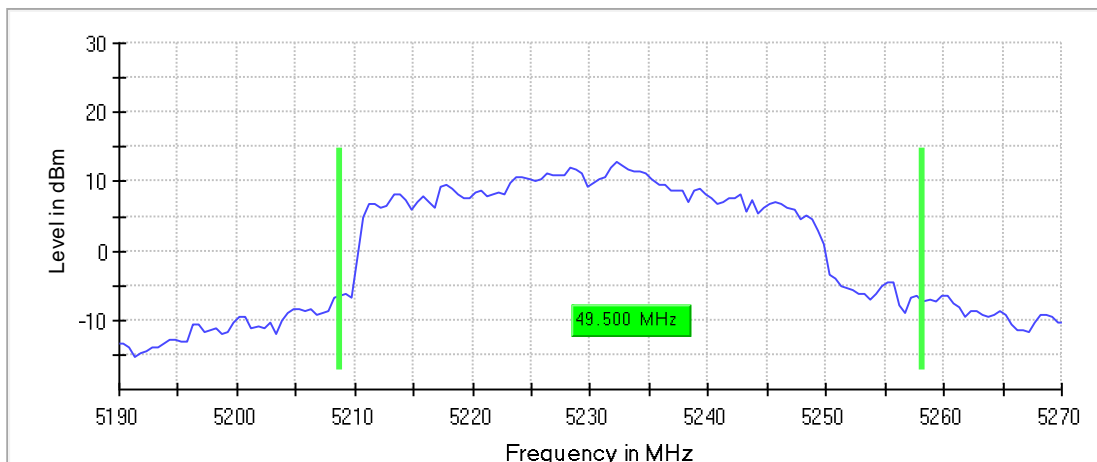
**Occupied Channel Bandwidth 99% (5230 MHz; 24.000 dBm; 40 MHz)**

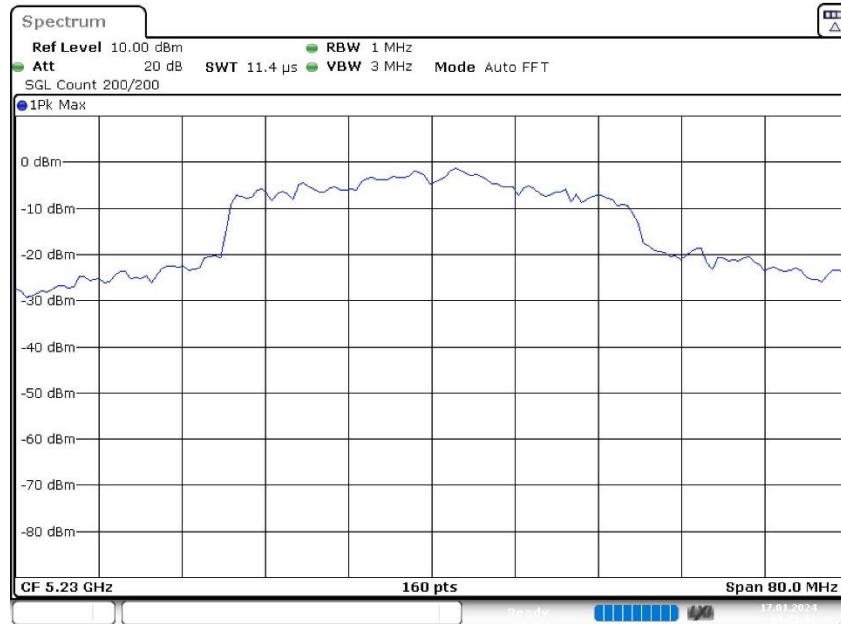
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	49.500000	---	---	5208.750000	5258.250000

DUT Frequency (MHz)	Result
5230.000000	PASS

99 %Bandwidth



**Bandwidth**

**Measurement**

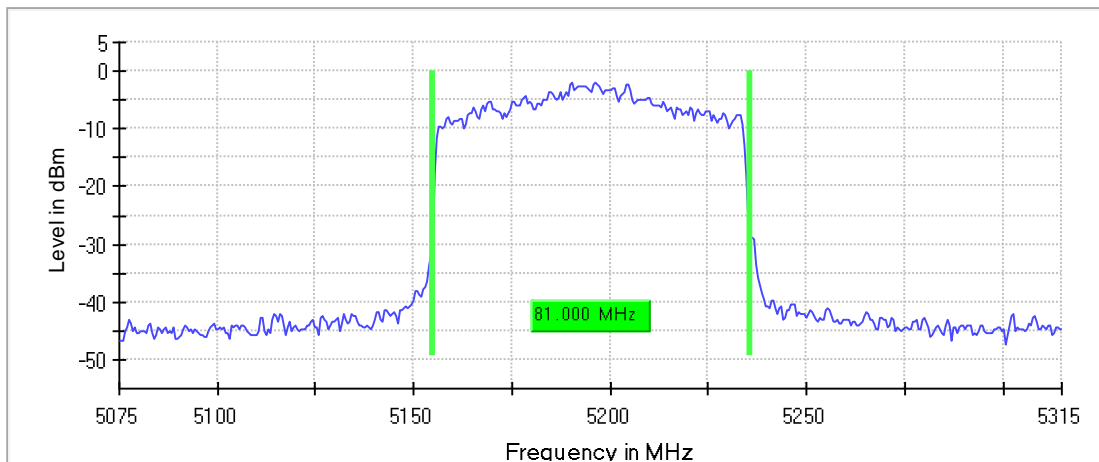
Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	11.438 μs	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

**Emission Bandwidth 26 dB (5195 MHz; 24.000 dBm; 80 MHz)**
**26 dB Bandwidth**

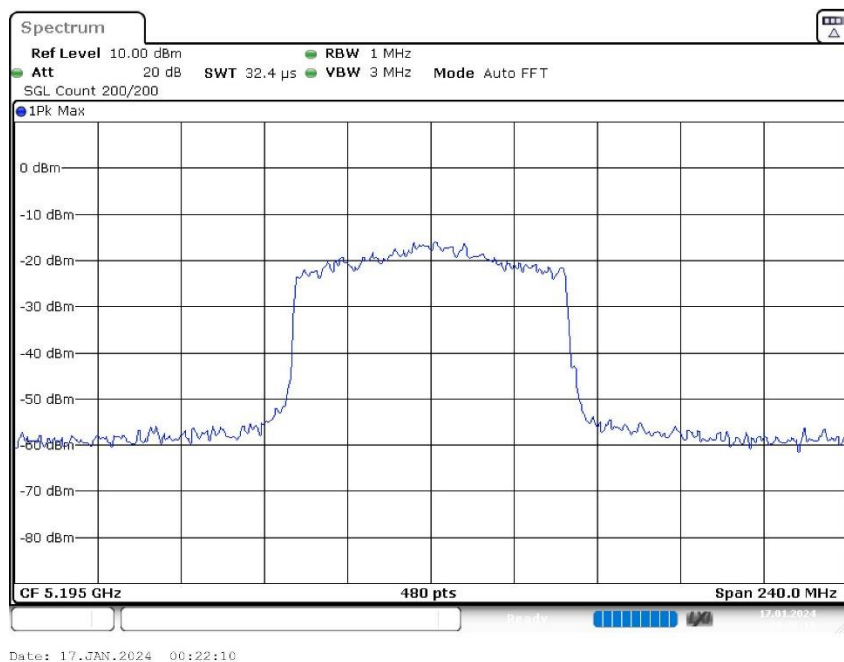
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5195.000000	81.000000	---	---	5154.750000	5235.750000

DUT Frequency (MHz)	Max Level (dBm)	Result
5195.000000	-1.9	PASS

26 dB Bandwidth



Bandwidth

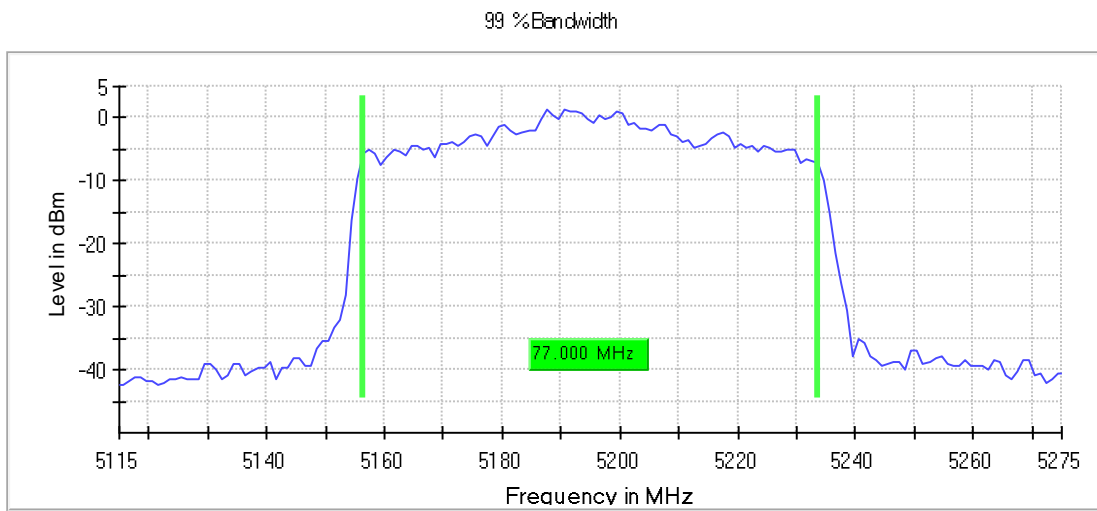


**Occupied Channel Bandwidth 99% (5195 MHz; 24.000 dBm; 80 MHz)**

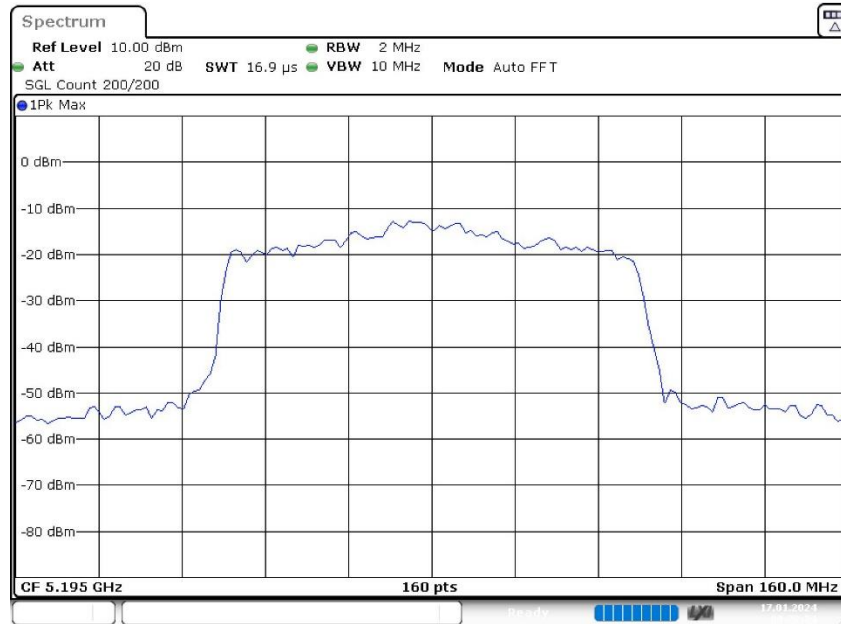
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5195.000000	77.000000	---	---	5156.500000	5233.500000

DUT Frequency (MHz)	Result
5195.000000	PASS



Bandwidth



Date: 17.JAN.2024 00:22:24

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.11500 GHz	5.11500 GHz
Stop Frequency	5.27500 GHz	5.27500 GHz
Span	160.000 MHz	160.000 MHz
RBW	2.000 MHz	$\geq 1.600$ MHz
VBW	10.000 MHz	$\geq 6.000$ MHz
SweepPoints	160	~ 160
Sweeptime	16.875 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

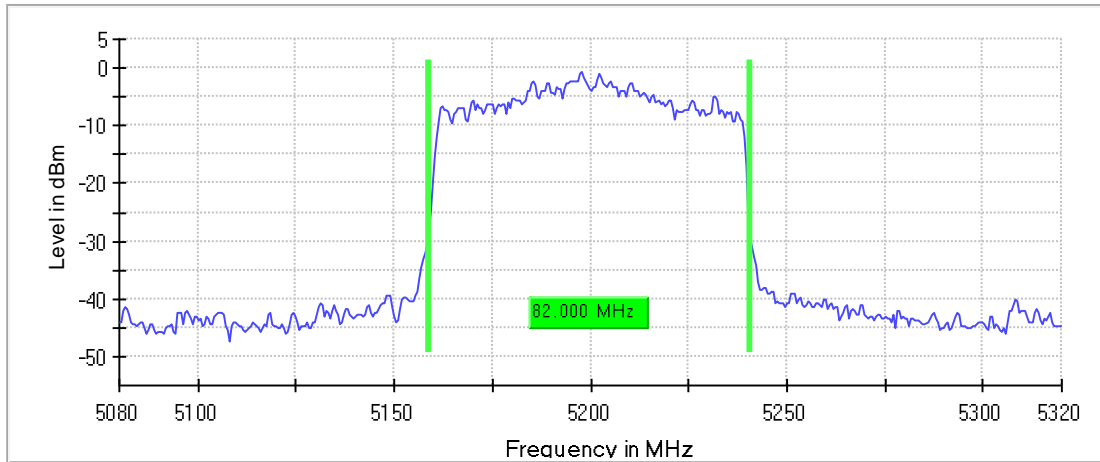
## Emission Bandwidth 26 dB (5200 MHz; 24.000 dBm; 80 MHz)

### 26 dB Bandwidth

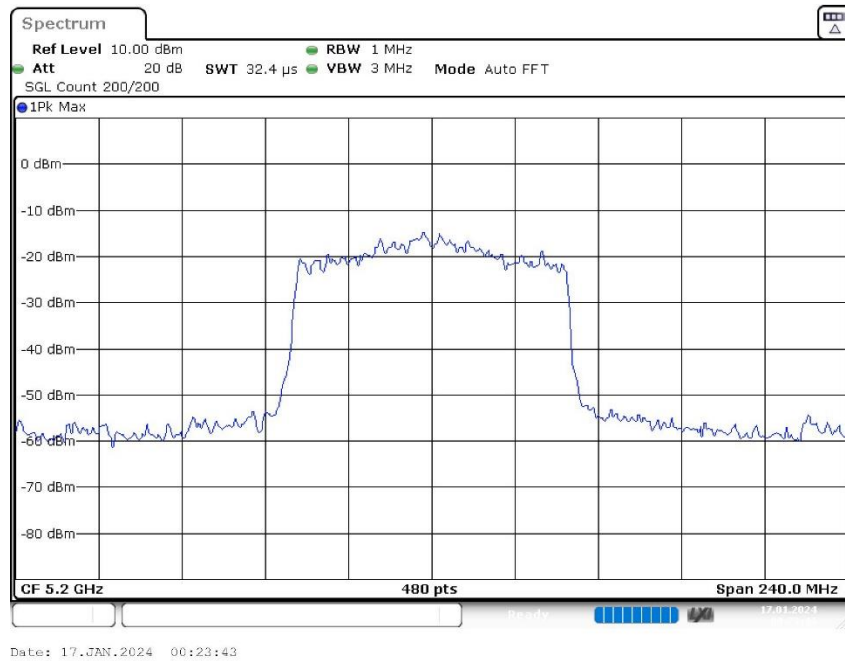
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	82.000000	---	---	5158.750000	5240.750000

DUT Frequency (MHz)	Max Level (dBm)	Result
5200.000000	-0.7	PASS

26 dB Bandwidth



Bandwidth



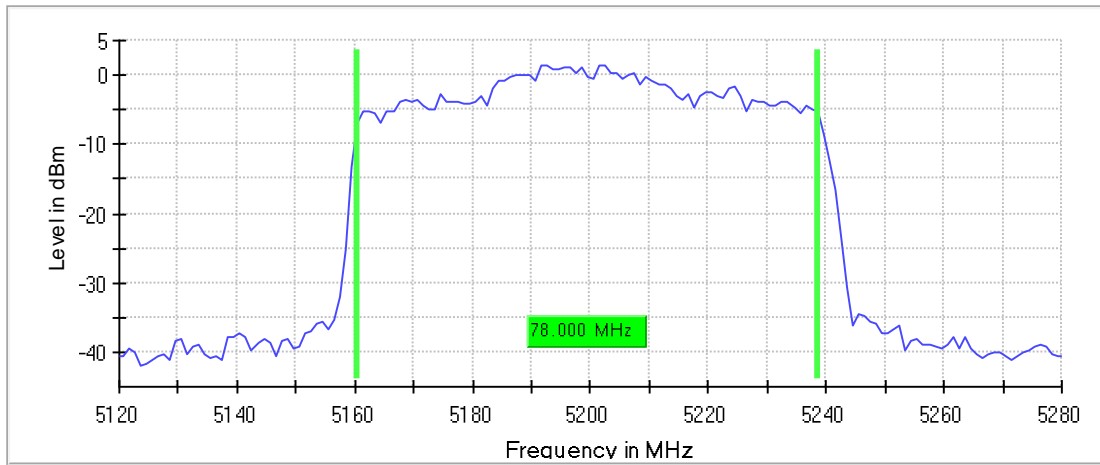
**Occupied Channel Bandwidth 99% (5200 MHz; 24.000 dBm; 80 MHz)**

**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	78.000000	---	---	5160.500000	5238.500000

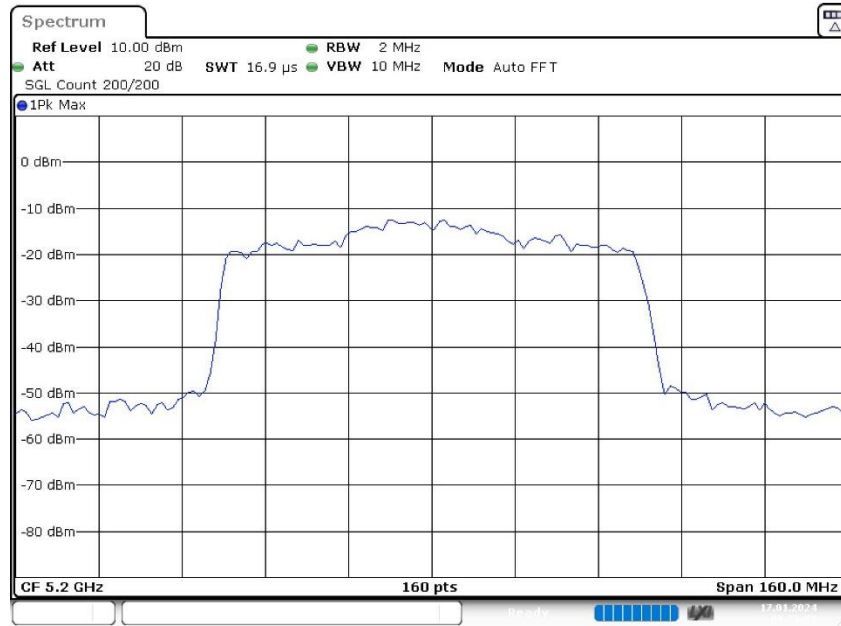
DUT Frequency (MHz)	Result
5200.000000	PASS

99 %Bandwidth



Bandwidth





Date: 17.JAN.2024 00:23:57

### Measurement

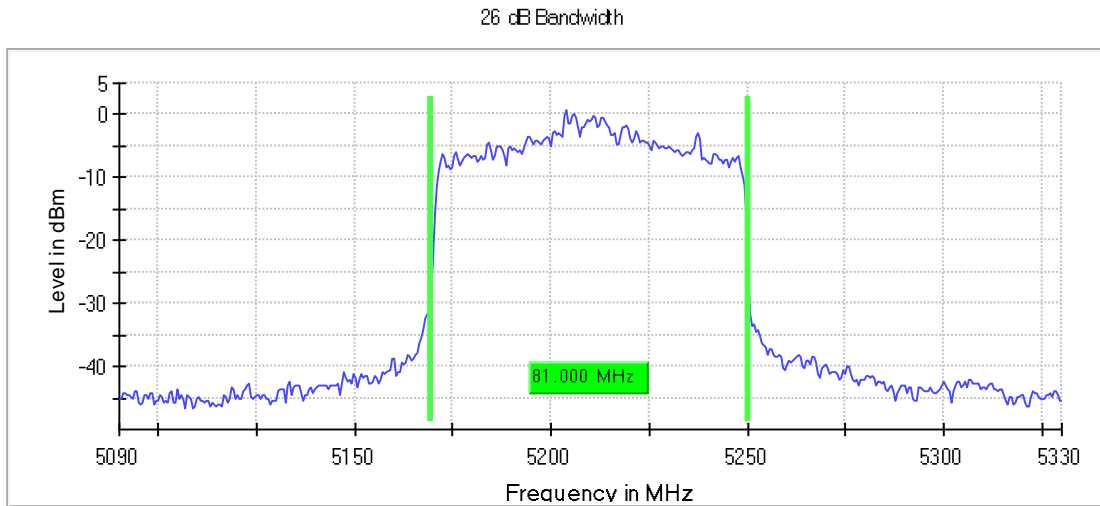
Setting	Instrument Value	Target Value
Start Frequency	5.12000 GHz	5.12000 GHz
Stop Frequency	5.28000 GHz	5.28000 GHz
Span	160.000 MHz	160.000 MHz
RBW	2.000 MHz	>= 1.600 MHz
VBW	10.000 MHz	>= 6.000 MHz
SweepPoints	160	~ 160
Sweeptime	16.875 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

### Emission Bandwidth 26 dB (5210 MHz; 24.000 dBm; 80 MHz)

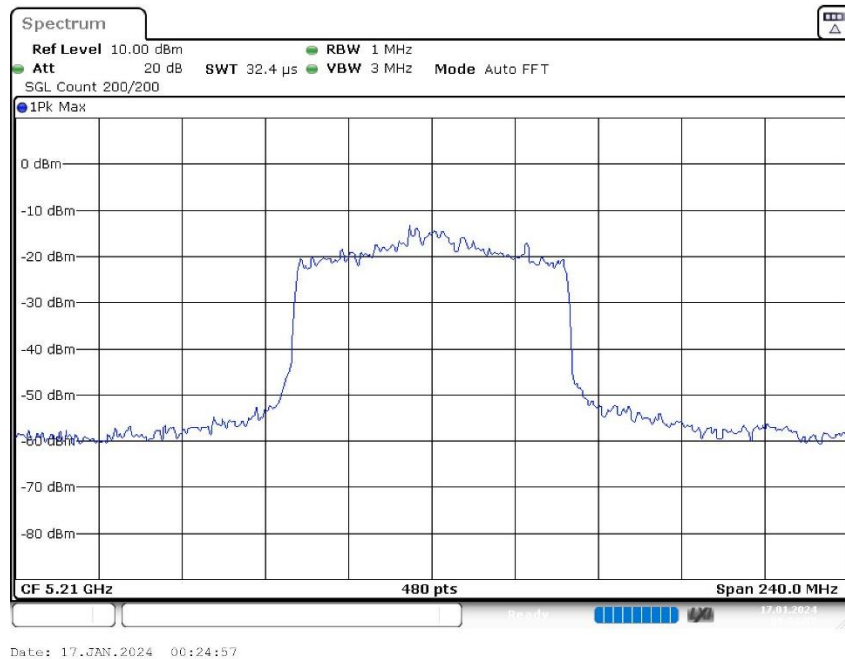
#### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	81.000000	---	---	5169.250000	5250.250000

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	0.8	PASS



Bandwidth

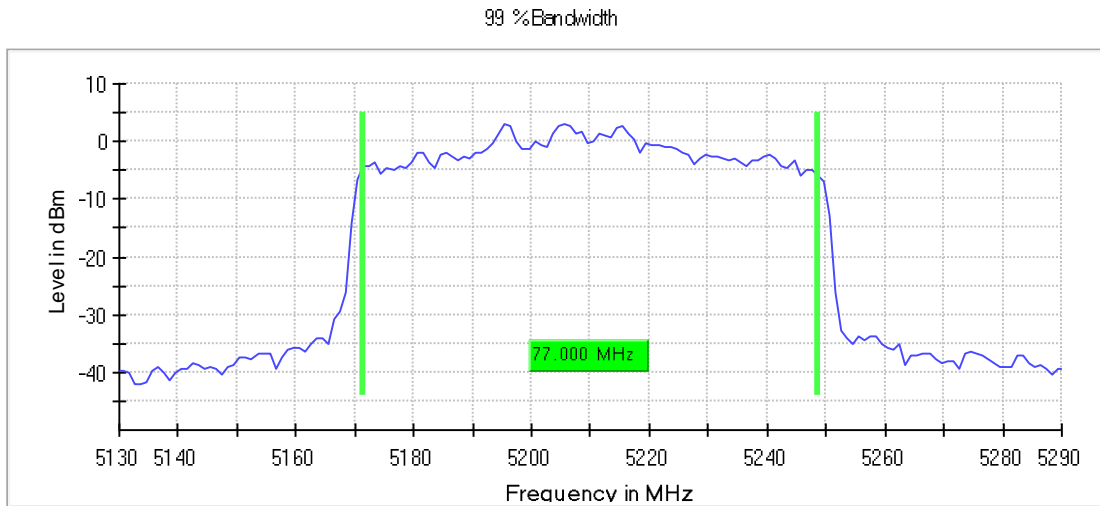


**Occupied Channel Bandwidth 99% (5210 MHz; 24.000 dBm; 80 MHz)**

**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	77.000000	---	---	5171.500000	5248.500000

DUT Frequency (MHz)	Result
5210.000000	PASS



Bandwidth



Date: 17.JAN.2024 00:25:11

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz

<b>RBW</b>	<b>2.000 MHz</b>	<b>&gt;= 1.600 MHz</b>
<b>VBW</b>	<b>10.000 MHz</b>	<b>&gt;= 6.000 MHz</b>
<b>SweepPoints</b>	<b>160</b>	<b>~ 160</b>
<b>SweepTime</b>	<b>16.875 <math>\mu</math>s</b>	<b>AUTO</b>
<b>Reference Level</b>	<b>10.000 dBm</b>	<b>AUTO</b>
<b>Attenuation</b>	<b>20.000 dB</b>	<b>20.000 dB</b>
<b>Detector</b>	<b>MaxPeak</b>	<b>MaxPeak</b>
<b>SweepCount</b>	<b>200</b>	<b>200</b>
<b>Filter</b>	<b>3 dB</b>	<b>3 dB</b>
<b>Trace Mode</b>	<b>Max Hold</b>	<b>Max Hold</b>
<b>SweepType</b>	<b>FFT</b>	<b>AUTO</b>
<b>Preamp</b>	<b>off</b>	<b>off</b>

-- End of Report --