



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>	TR8644_00
<b>Date of Tests</b>	11, 13, 16, 20 October; 2, 8-9 November 2023
<b>Report Issue Date</b>	17 November 2023

### Test Personnel

<b>Testing performed by</b>	Evan Hartzell
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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 2023. 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-2a

## 1.1 Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5260.000	24.0	20.000000	PASS
RF output power	5260.000	24.0	20.000000	PASS
Power Spectral Density	5260.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5260.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5300.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5335.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5335.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5270.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5270.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5300.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5325.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5325.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5290.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5290.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	5300.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	5305.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5305.000	24.0	80.000000	PASS
Emission Bandwidth 26 dB	5250.000	24.0	160.000000	PASS
Occupied Channel Bandwidth 99%	5250.000	24.0	160.000000	PASS

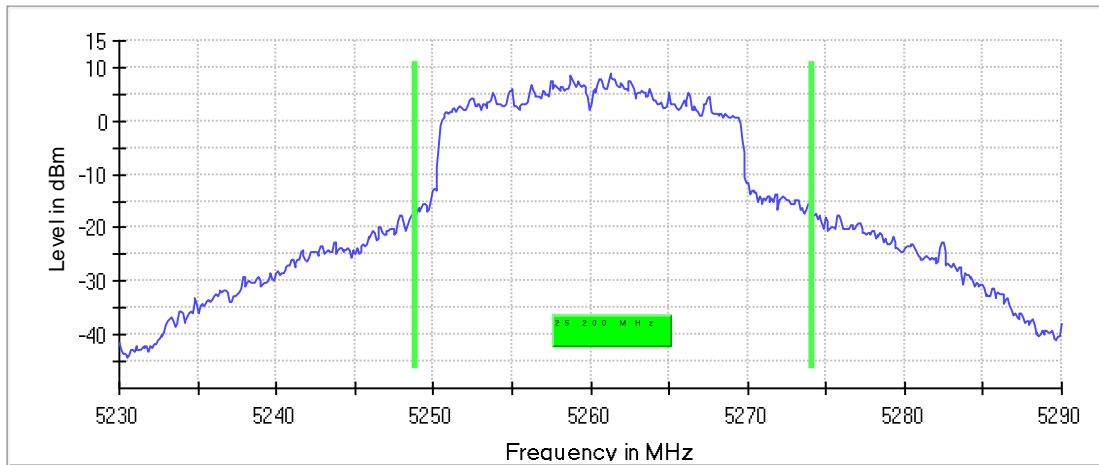
**Emission Bandwidth 26 dB (5260 MHz; 24.000 dBm; 20 MHz)**

**26 dB Bandwidth**

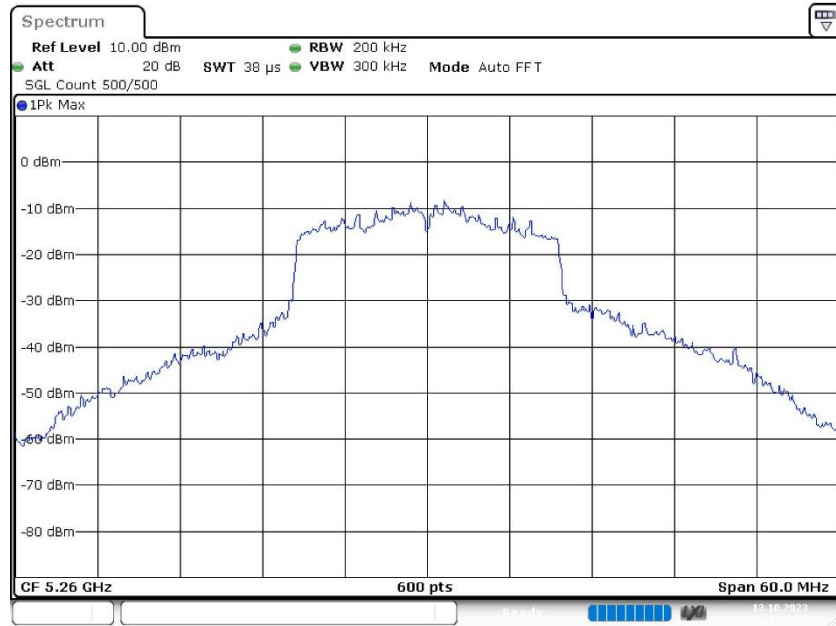
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	25.200000	---	---	5248.850000	5274.050000

DUT Frequency (MHz)	Max Level (dBm)	Result
5260.000000	8.9	PASS

26 dB Bandwidth



Bandwidth



Date: 13.OCT.2023 00:07:08

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.23000 GHz	5.23000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	300.000 kHz	>= 240.000 kHz
SweepPoints	600	~ 600
SweepTime	37.969 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

**RF output power (5260 MHz; 24.000 dBm; 20 MHz)**

## Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5260.000000	20.7	24.0	20.7	92.713	PASS

## OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s

Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

## Power Spectral Density (5260 MHz; 24.000 dBm; 20 MHz)

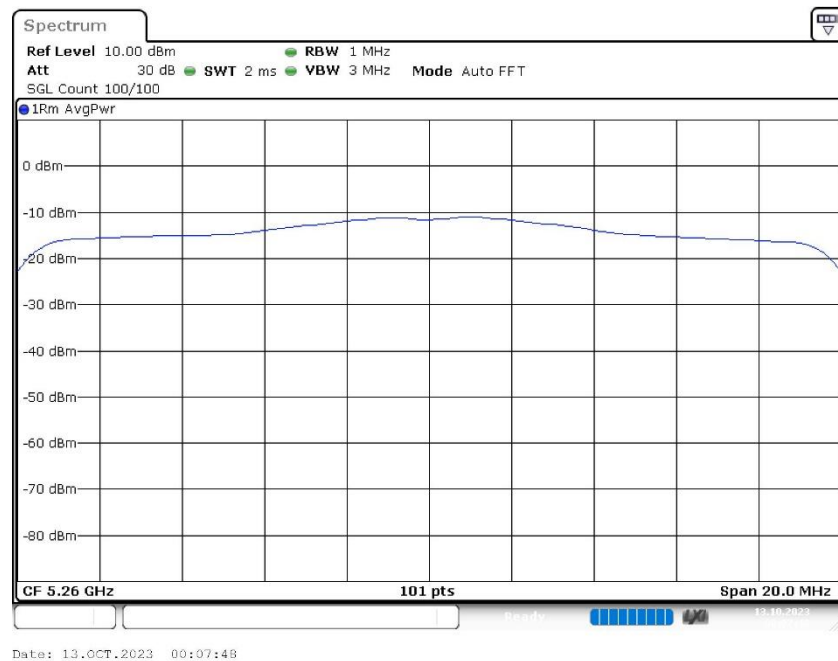
### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5260.000000	5260.792079	9.187	11.0	PASS

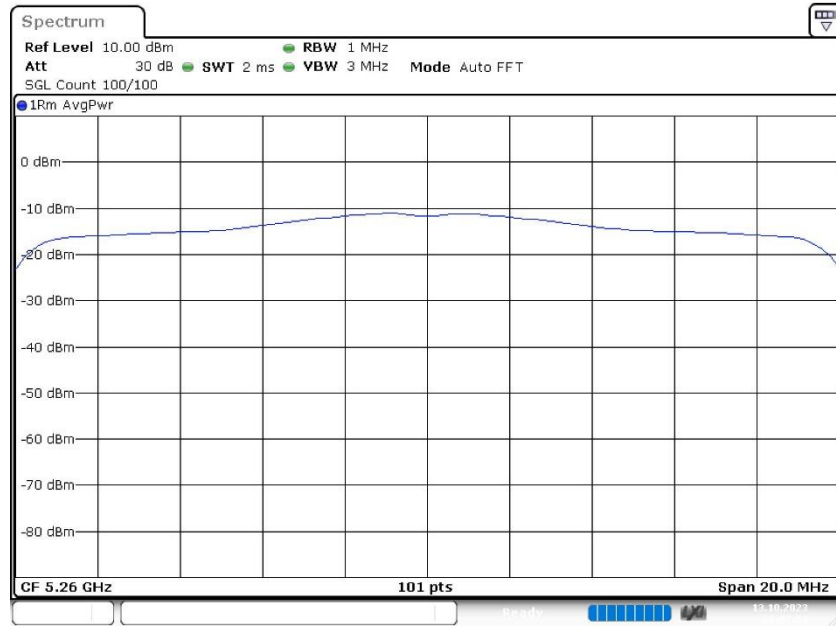
### Ports

Port	State
1	used
2	used

#### PSD Connector 1



#### PSD Connector 2



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
Sweeptime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	FFT	AUTO
Preamp	off	off

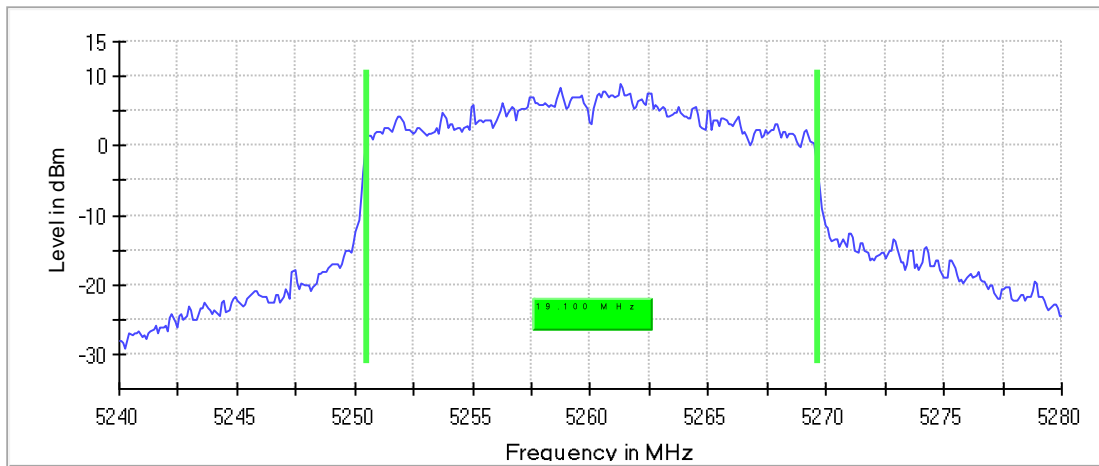
**Occupied Channel Bandwidth 99% (5260 MHz; 24.000 dBm; 20 MHz)**

### 99 % Bandwidth

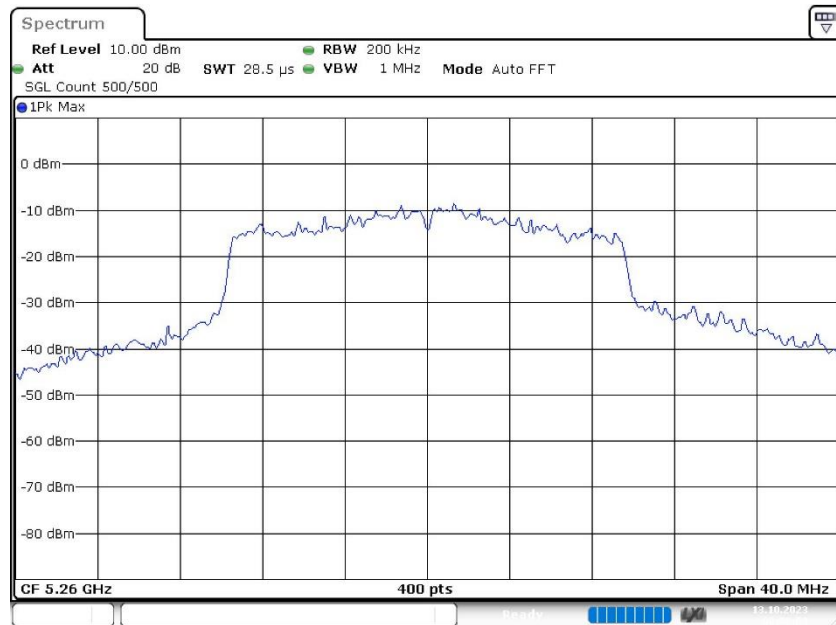
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	19.100000	---	---	5250.550000	5269.650000

DUT Frequency (MHz)	Result
5260.000000	PASS

99 %Bandwidth



Bandwidth



Date: 13.OCT.2023 00:08:03

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.28000 GHz	5.28000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400

SweepTime	28.477 $\mu$ s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

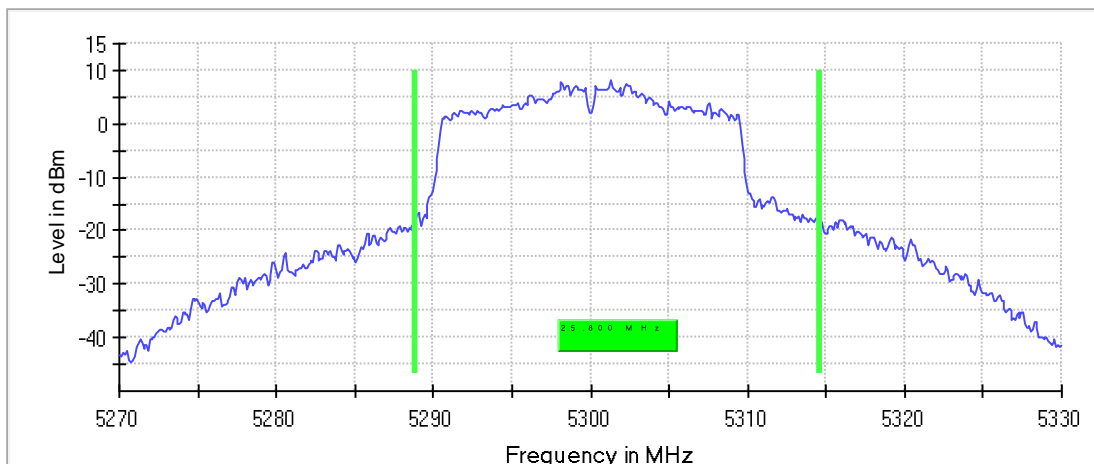
## Emission Bandwidth 26 dB (5300 MHz; 24.000 dBm; 20 MHz)

### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	25.800000	---	---	5288.850000	5314.650000

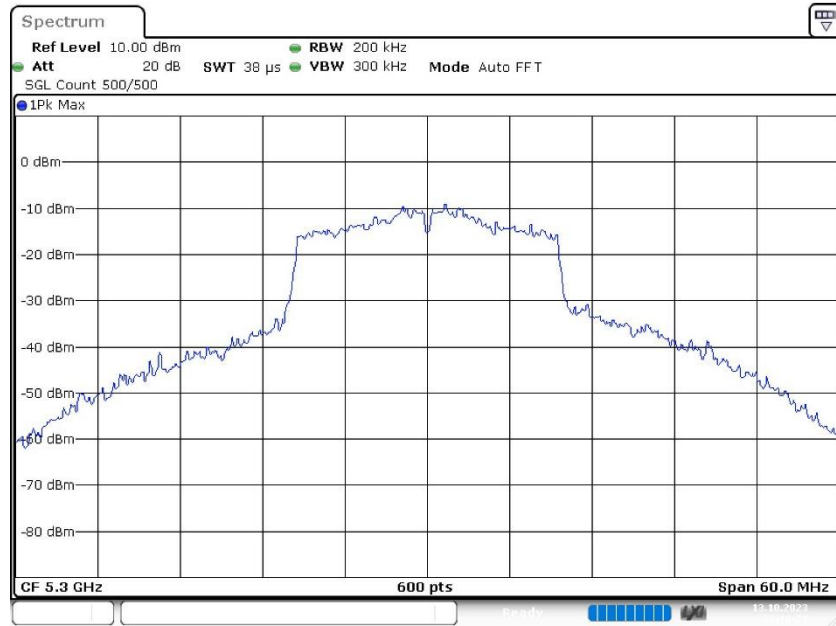
DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	8.1	PASS

26 dB Bandwidth



Bandwidth





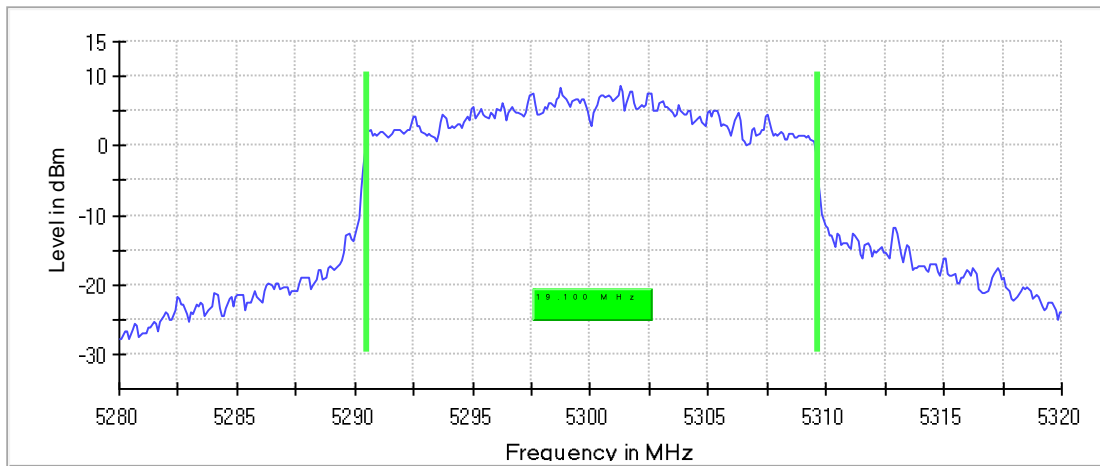
**Occupied Channel Bandwidth 99% (5300 MHz; 24.000 dBm; 20 MHz)**

**99 % Bandwidth**

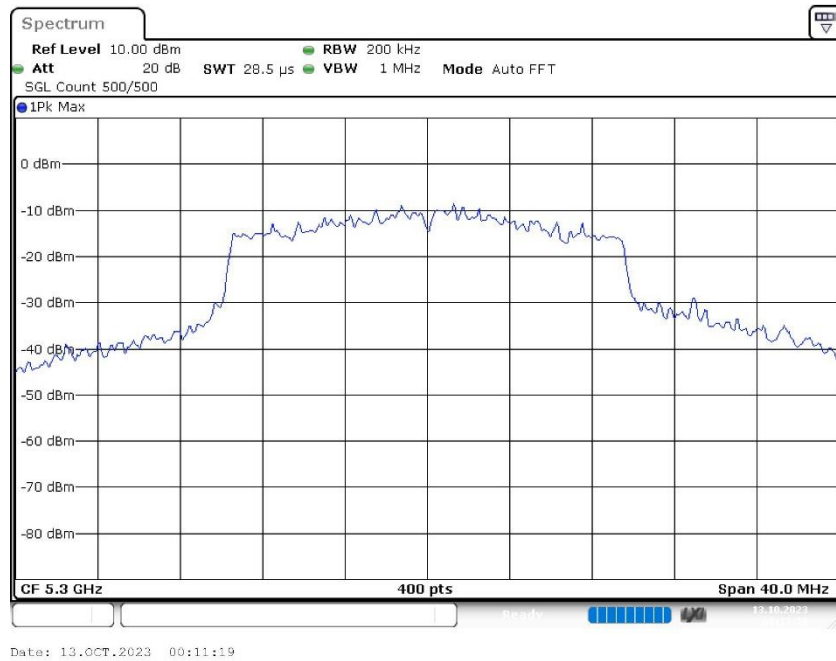
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	19.100000	---	---	5290.550000	5309.650000

DUT Frequency (MHz)	Result
5300.000000	PASS

99 %Bandwidth



Bandwidth



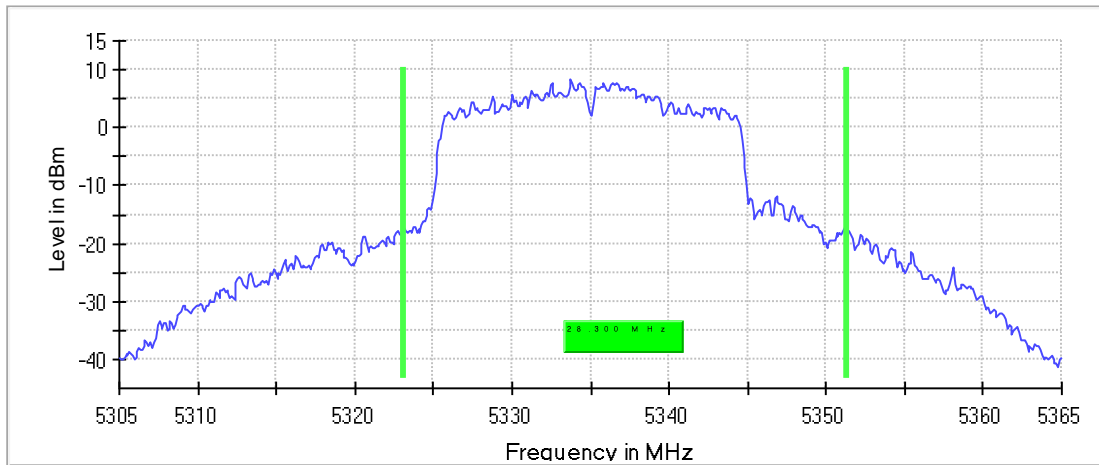
**Emission Bandwidth 26 dB (5335 MHz; 24.000 dBm; 20 MHz)**

**26 dB Bandwidth**

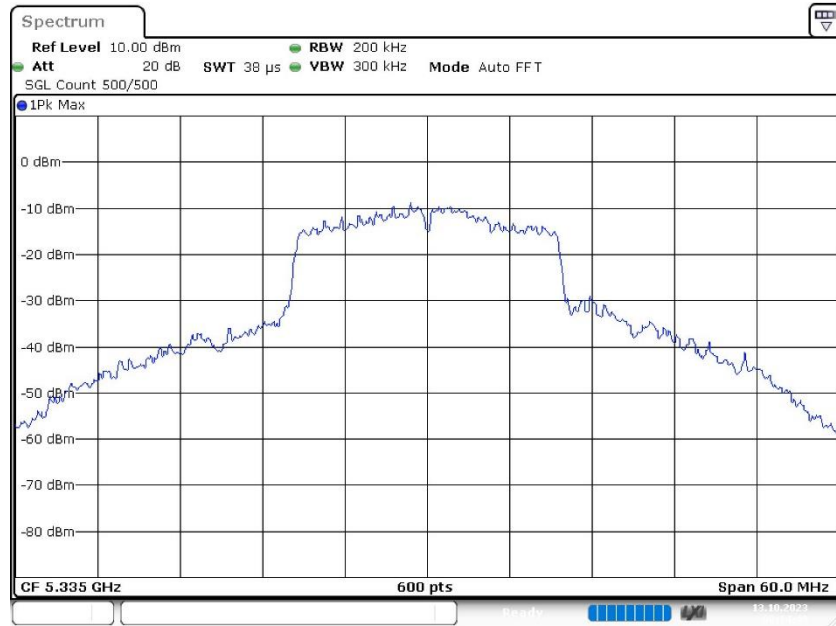
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5335.000000	28.300000	---	---	5323.050000	5351.350000

DUT Frequency (MHz)	Max Level (dBm)	Result
5335.000000	8.5	PASS

26 dB Bandwidth



Bandwidth



Date: 13.OCT.2023 00:14:49

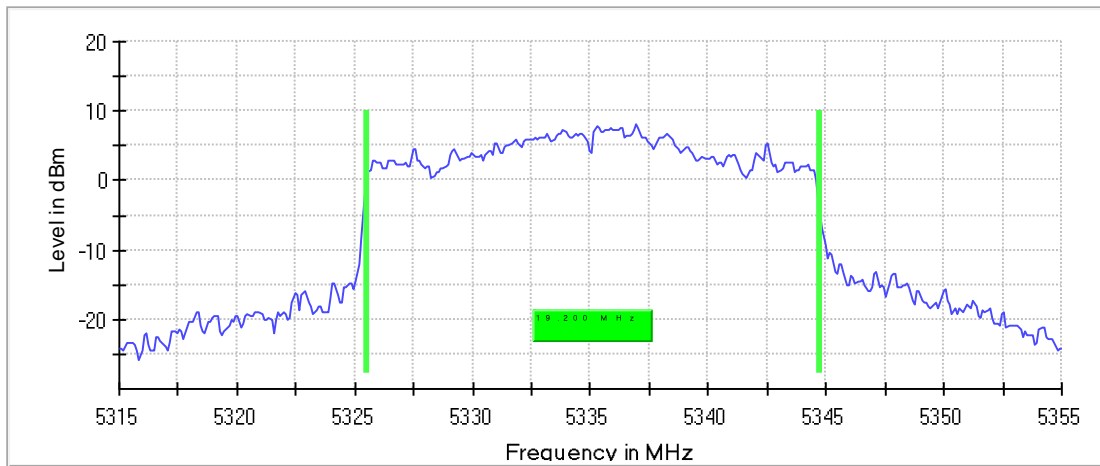
**Occupied Channel Bandwidth 99% (5335 MHz; 24.000 dBm; 20 MHz)**

**99 % Bandwidth**

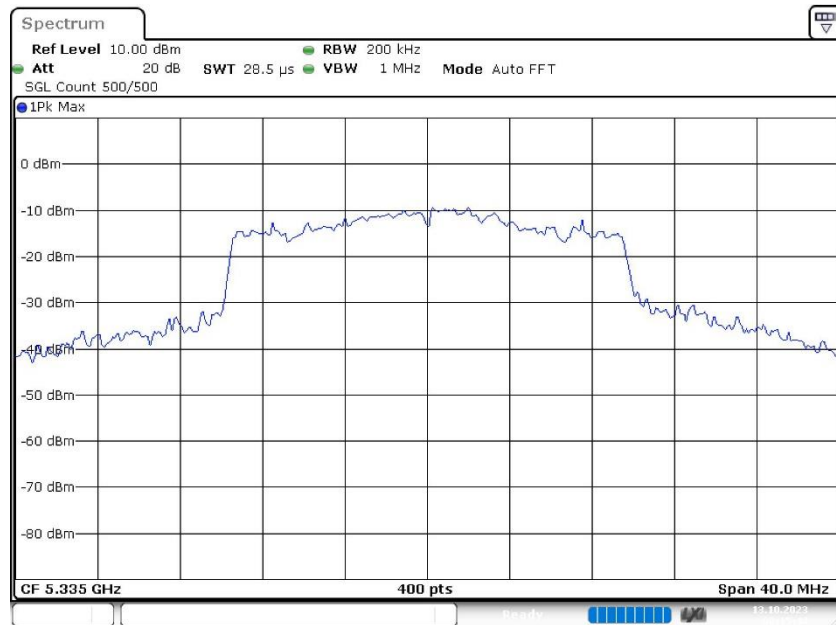
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5335.000000	19.200000	---	---	5325.550000	5344.750000

DUT Frequency (MHz)	Result
5335.000000	PASS

99 %Bandwidth



Bandwidth



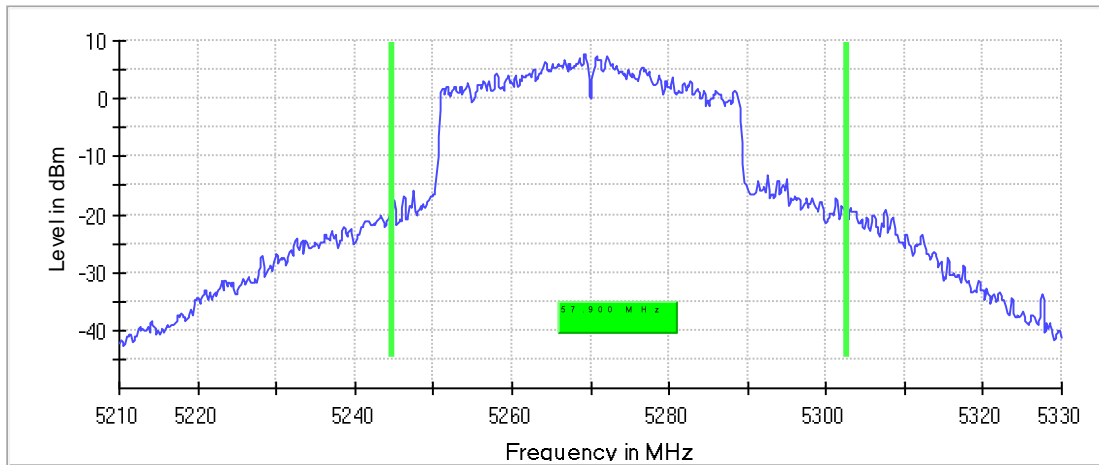
## Emission Bandwidth 26 dB (5270 MHz; 24.000 dBm; 40 MHz)

### 26 dB Bandwidth

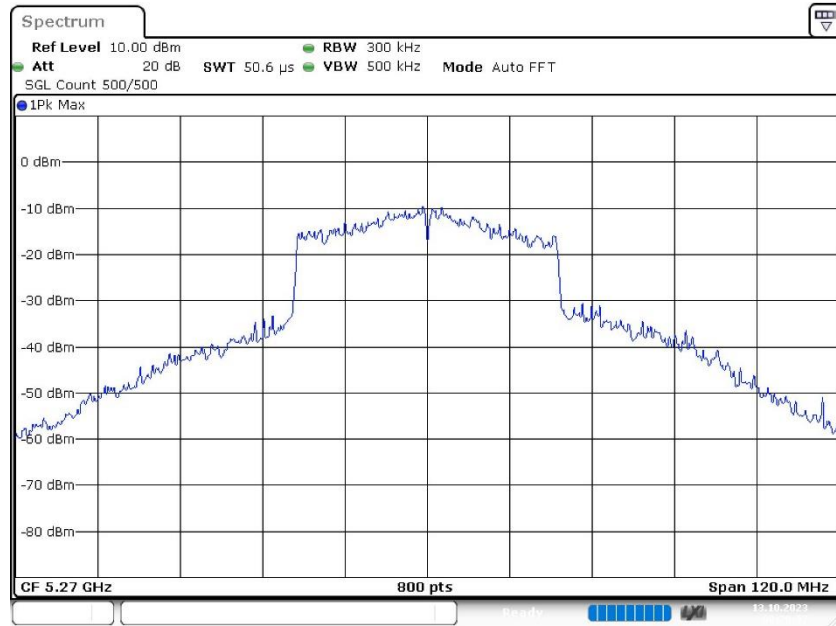
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	57.900000	---	---	5244.725000	5302.625000

DUT Frequency (MHz)	Max Level (dBm)	Result
5270.000000	7.7	PASS

26 dB Bandwidth



Bandwidth



Date: 13.OCT.2023 00:20:37

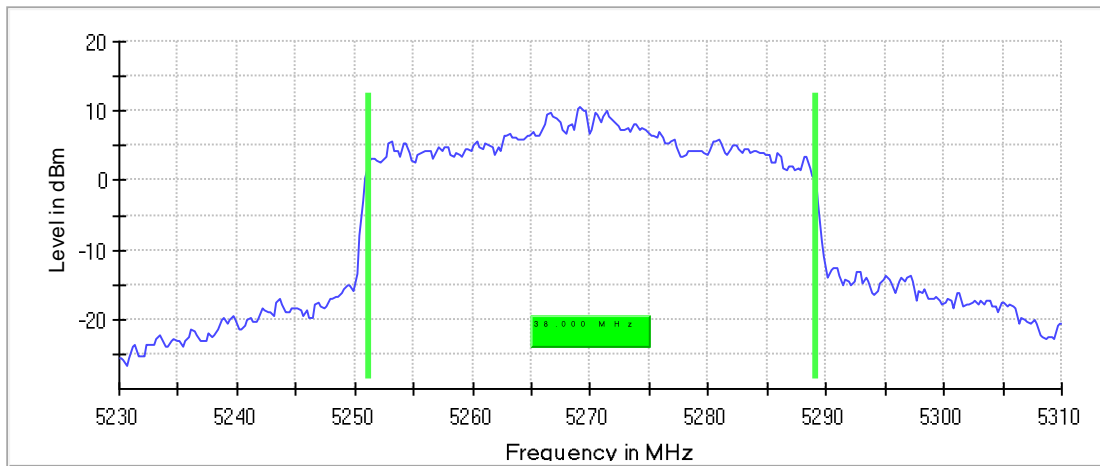
**Occupied Channel Bandwidth 99% (5270 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

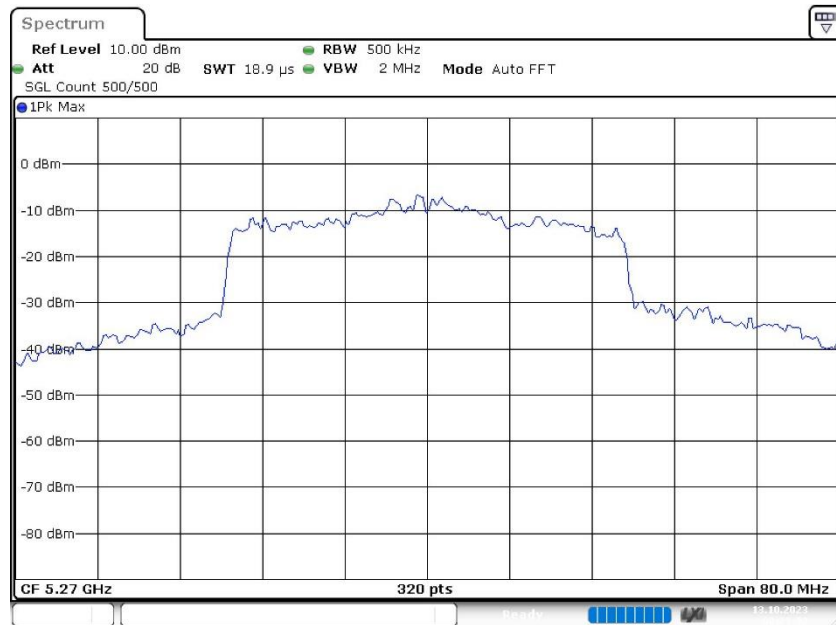
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	38.000000	---	---	5251.125000	5289.125000

DUT Frequency (MHz)	Result
5270.000000	PASS

99 %Bandwidth



Bandwidth



Date: 13.OCT.2023 00:21:32



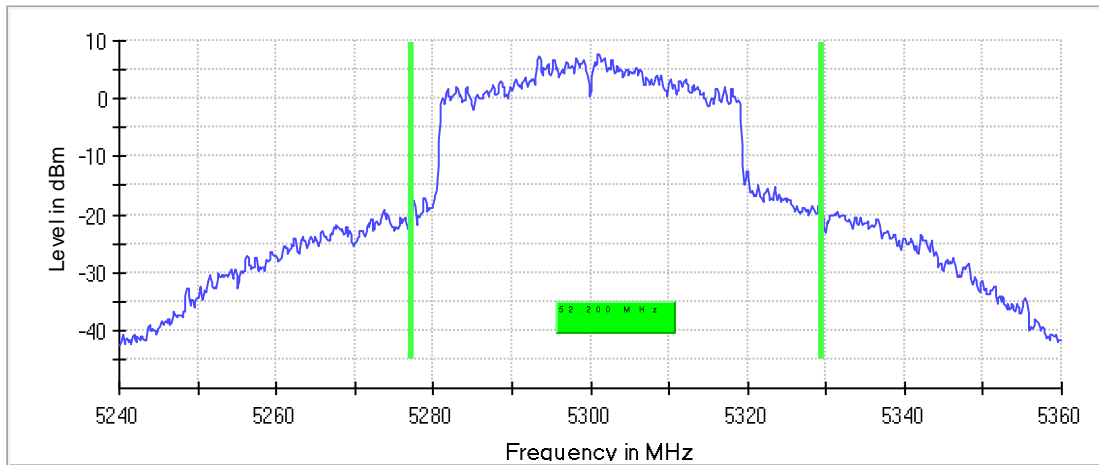
**Emission Bandwidth 26 dB (5300 MHz; 24.000 dBm; 40 MHz)**

**26 dB Bandwidth**

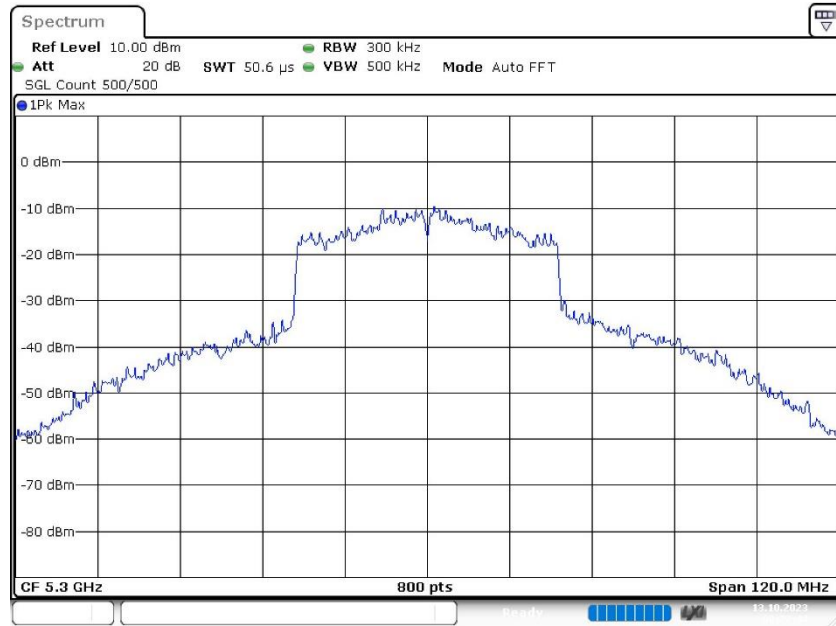
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	52.200000	---	---	5277.275000	5329.475000

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	7.7	PASS

26 dB Bandwidth



Bandwidth



Date: 13.OCT.2023 00:22:44

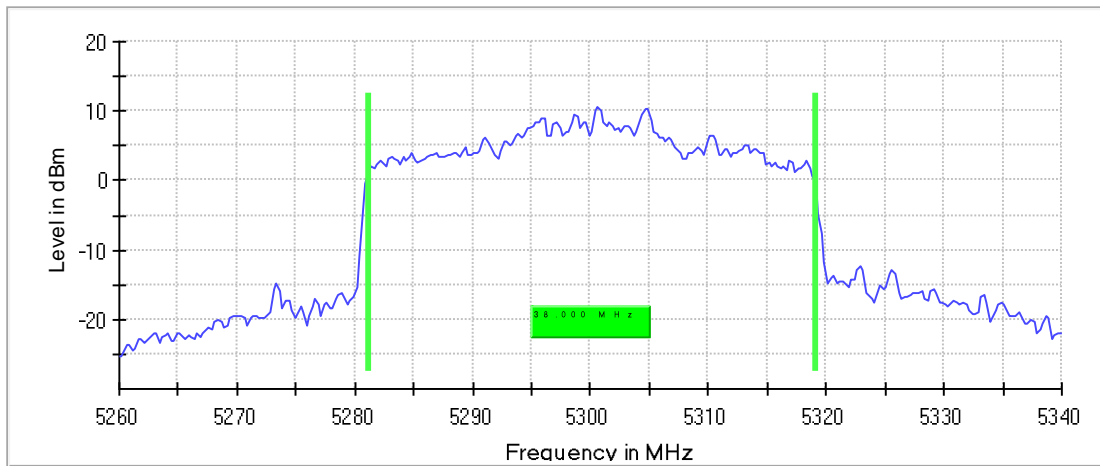
**Occupied Channel Bandwidth 99% (5300 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

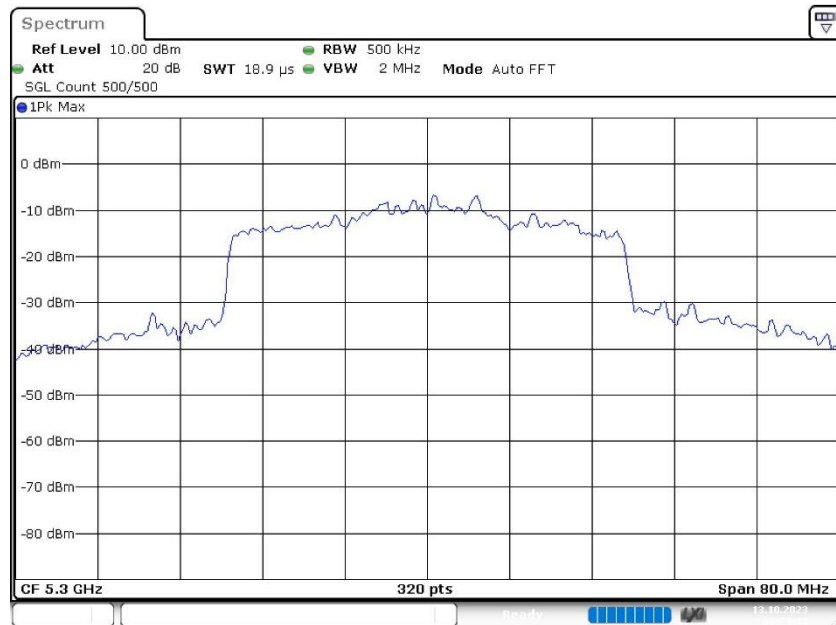
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	38.000000	---	---	5281.125000	5319.125000

DUT Frequency (MHz)	Result
5300.000000	PASS

99 %Bandwidth



Bandwidth



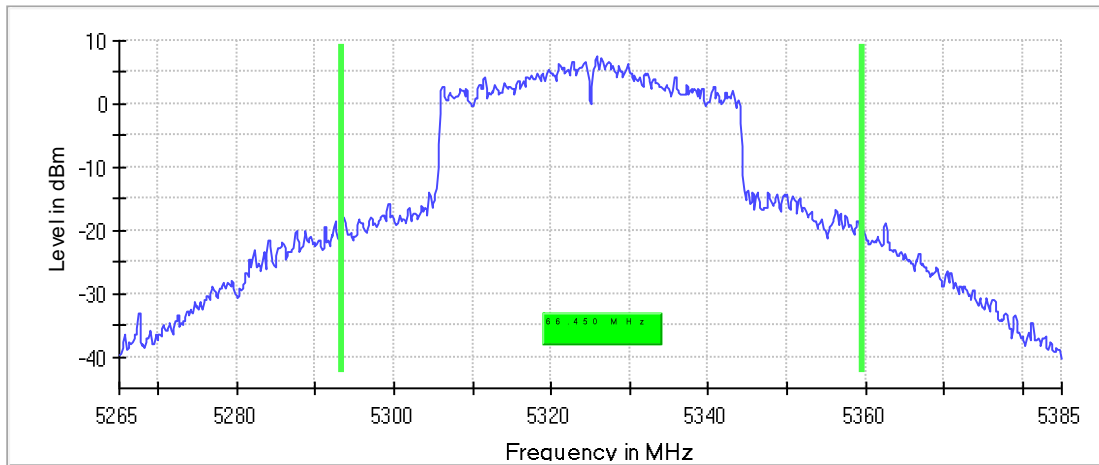
**Emission Bandwidth 26 dB (5325 MHz; 24.000 dBm; 40 MHz)**

**26 dB Bandwidth**

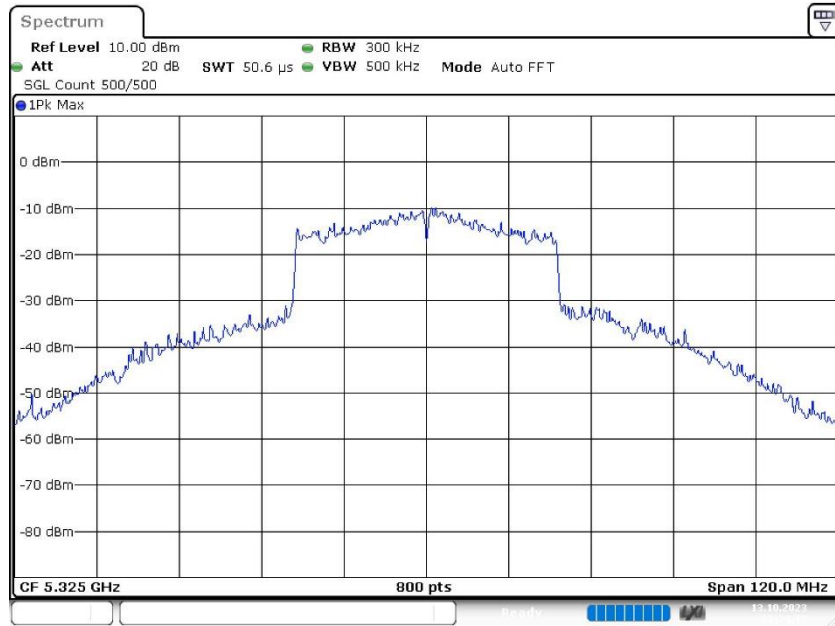
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5325.000000	66.450000	---	---	5293.275000	5359.725000

DUT Frequency (MHz)	Max Level (dBm)	Result
5325.000000	7.5	PASS

26 dB Bandwidth



Bandwidth



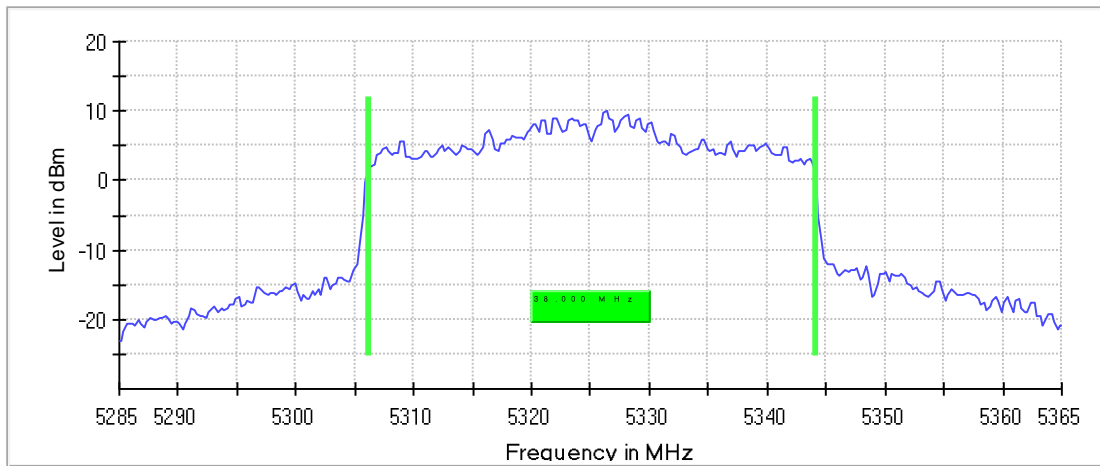
**Occupied Channel Bandwidth 99% (5325 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

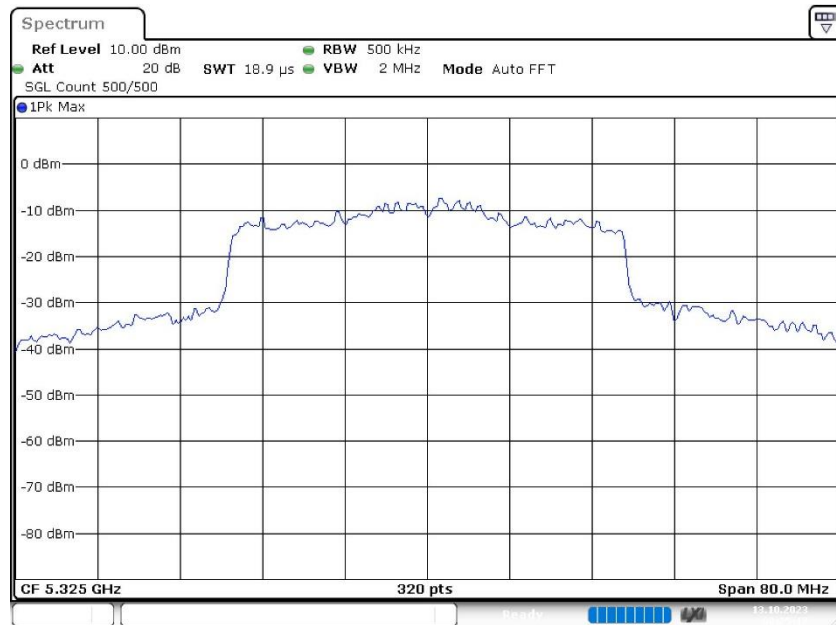
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5325.000000	38.000000	---	---	5306.125000	5344.125000

DUT Frequency (MHz)	Result
5325.000000	PASS

99 %Bandwidth



Bandwidth



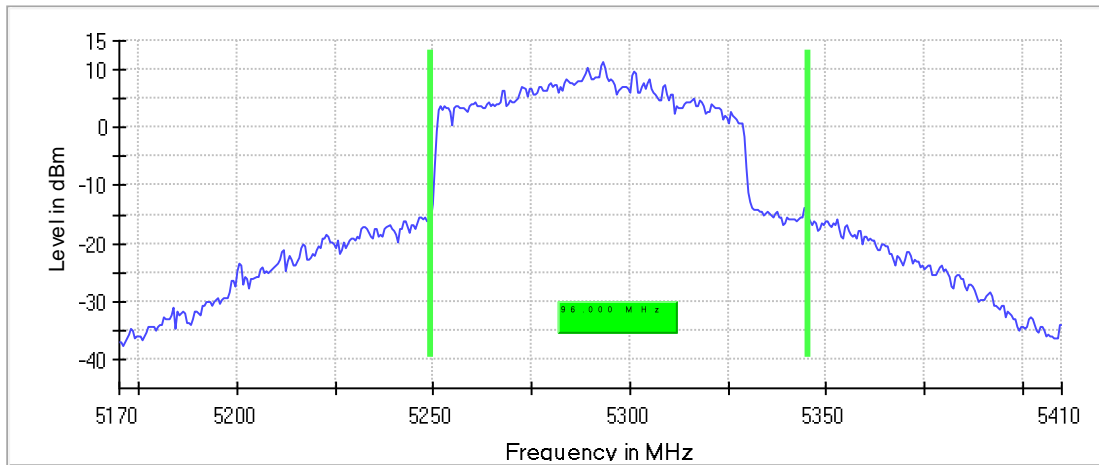
## Emission Bandwidth 26 dB (5290 MHz; 24.000 dBm; 80 MHz)

### 26 dB Bandwidth

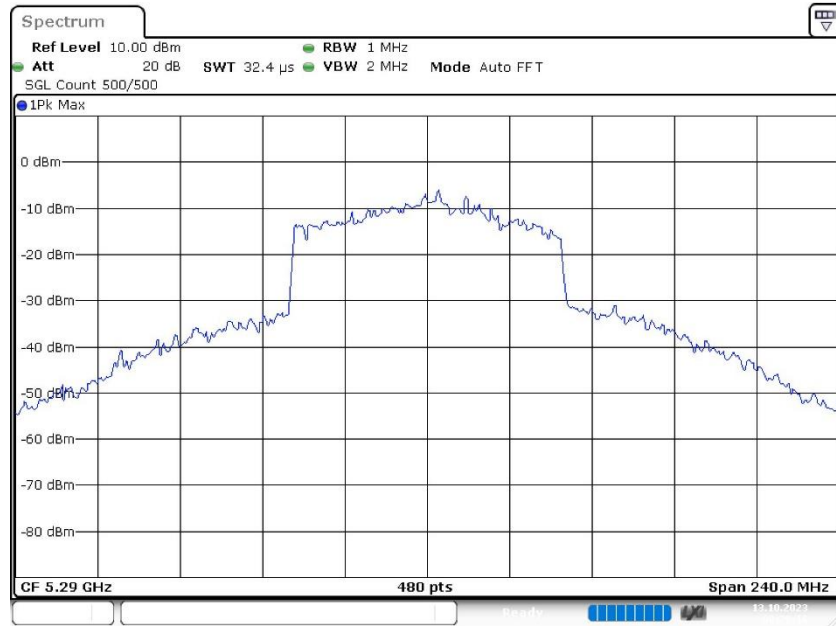
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	96.000000	---	---	5249.250000	5345.250000

DUT Frequency (MHz)	Max Level (dBm)	Result
5290.000000	11.2	PASS

26 dB Bandwidth



Bandwidth



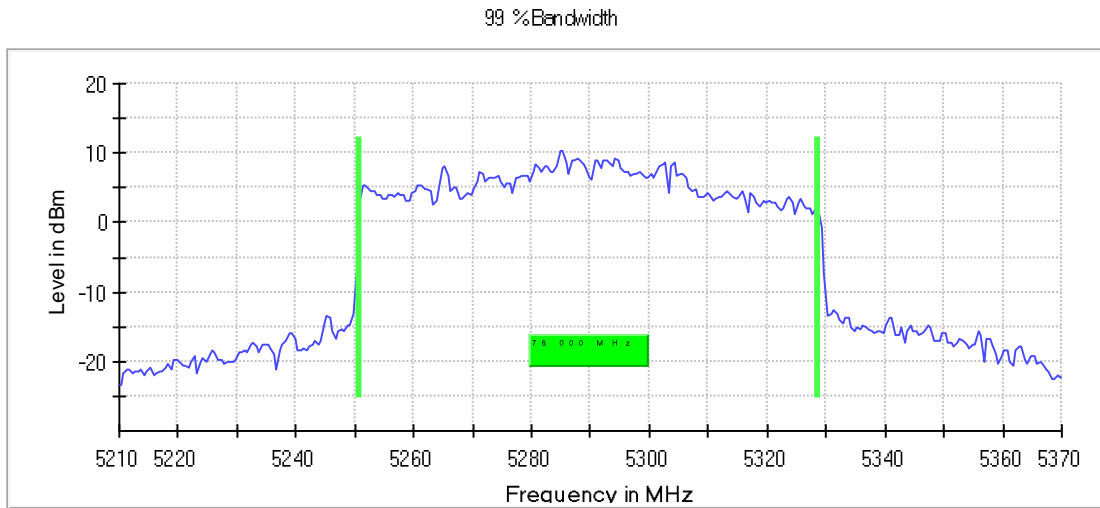
**Occupied Channel Bandwidth 99% (5290 MHz; 24.000 dBm; 80 MHz)**

**99 % Bandwidth**

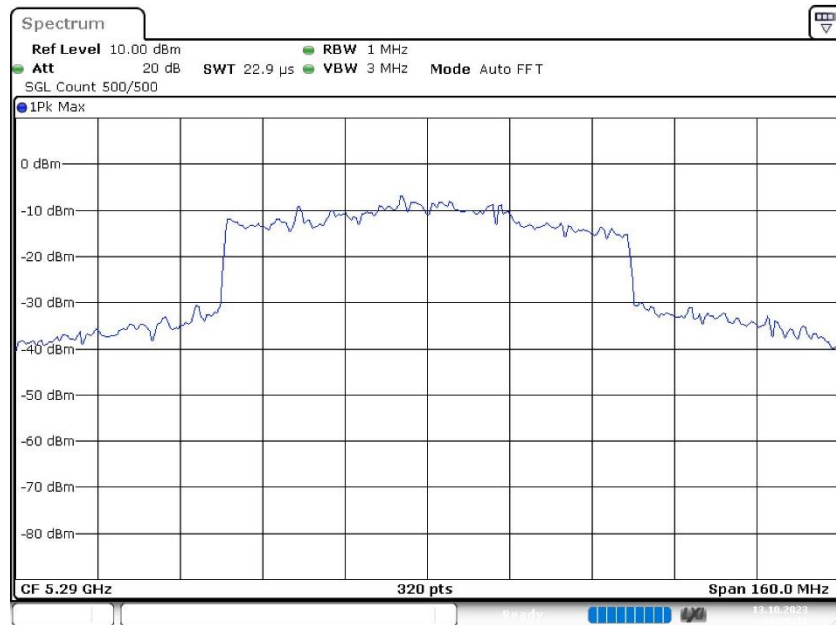
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	78.000000	---	---	5250.750000	5328.750000

DUT Frequency (MHz)	Result
5290.000000	PASS





Bandwidth



Date: 13.OCT.2023 00:29:18

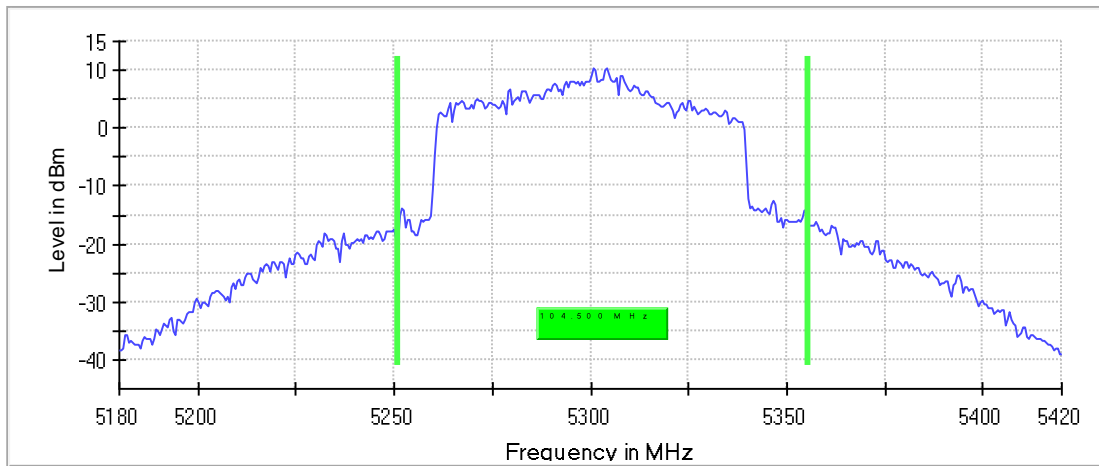
**Emission Bandwidth 26 dB (5300 MHz; 24.000 dBm; 80 MHz)**

**26 dB Bandwidth**

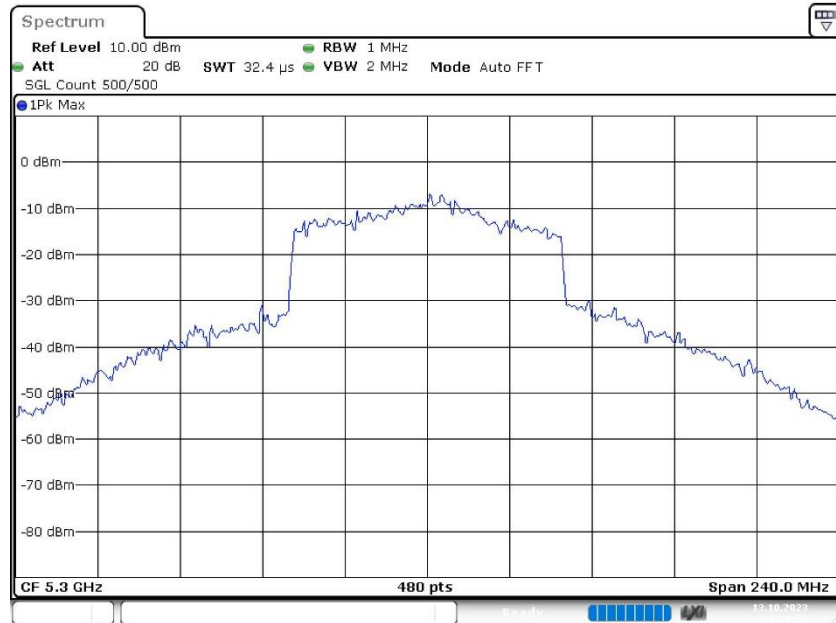
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	104.500000	---	---	5250.750000	5355.250000

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	10.4	PASS

26 dB Bandwidth



Bandwidth



Date: 13.OCT.2023 00:29:57

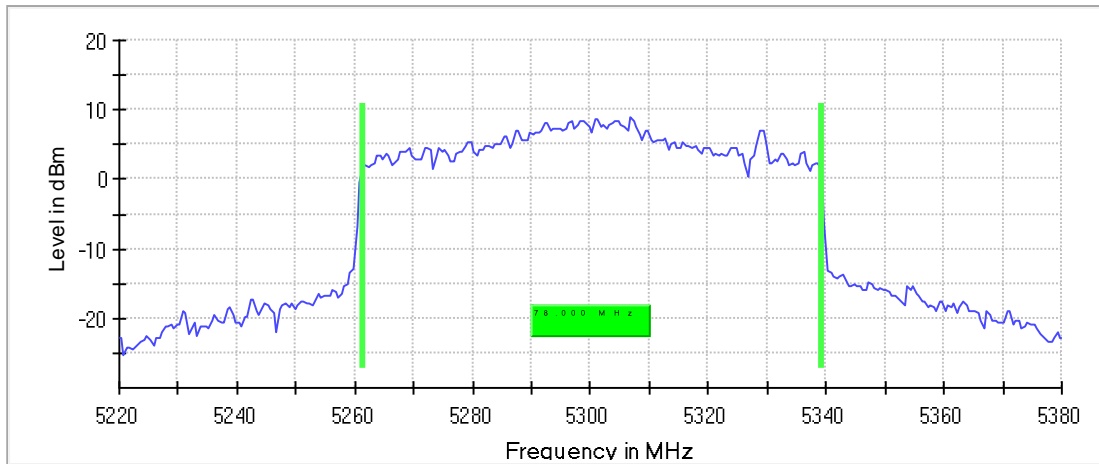
**Occupied Channel Bandwidth 99% (5300 MHz; 24.000 dBm; 80 MHz)**

### 99 % Bandwidth

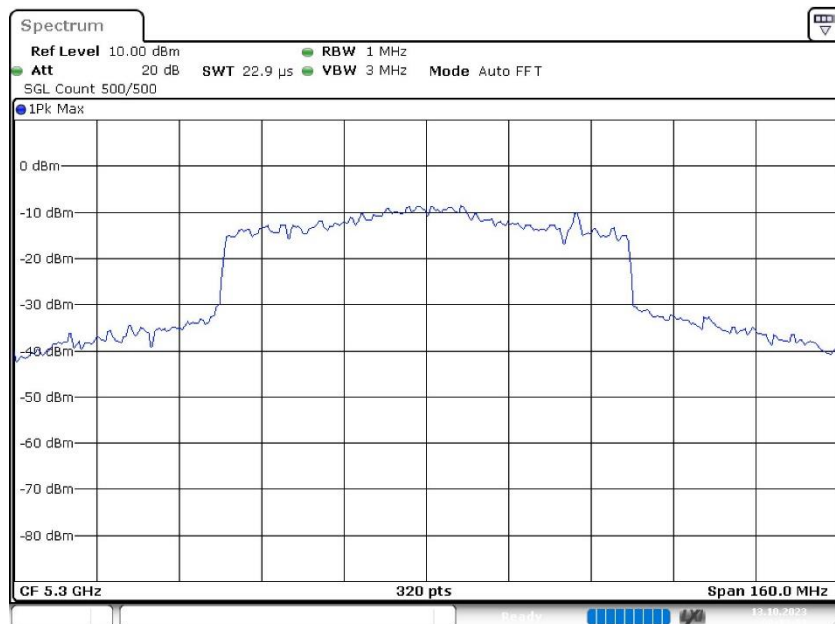
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	78.000000	---	---	5261.250000	5339.250000

DUT Frequency (MHz)	Result
5300.000000	PASS

99 %Bandwidth



Bandwidth



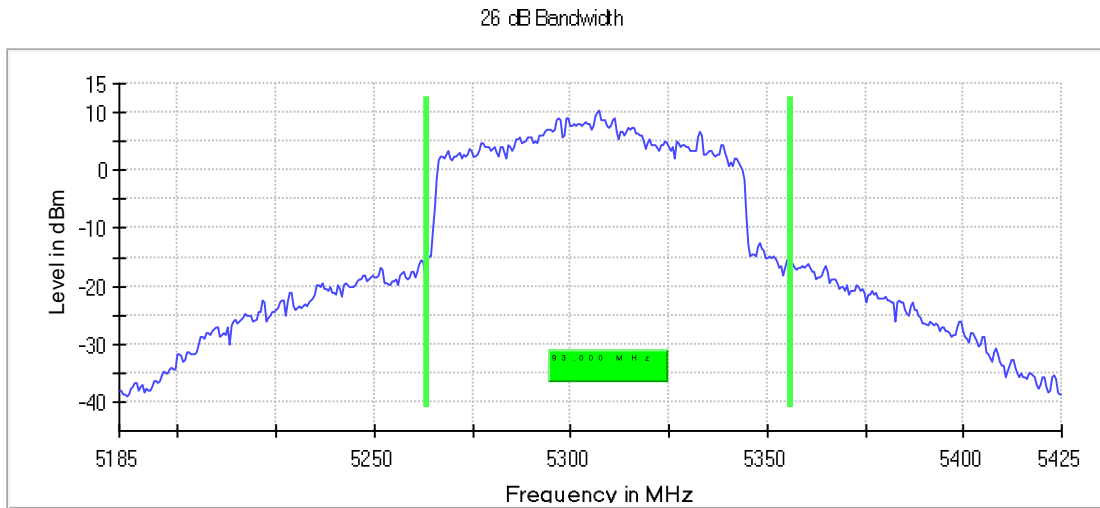
Date: 13.OCT.2023 00:33:33

### Emission Bandwidth 26 dB (5305 MHz; 24.000 dBm; 80 MHz)

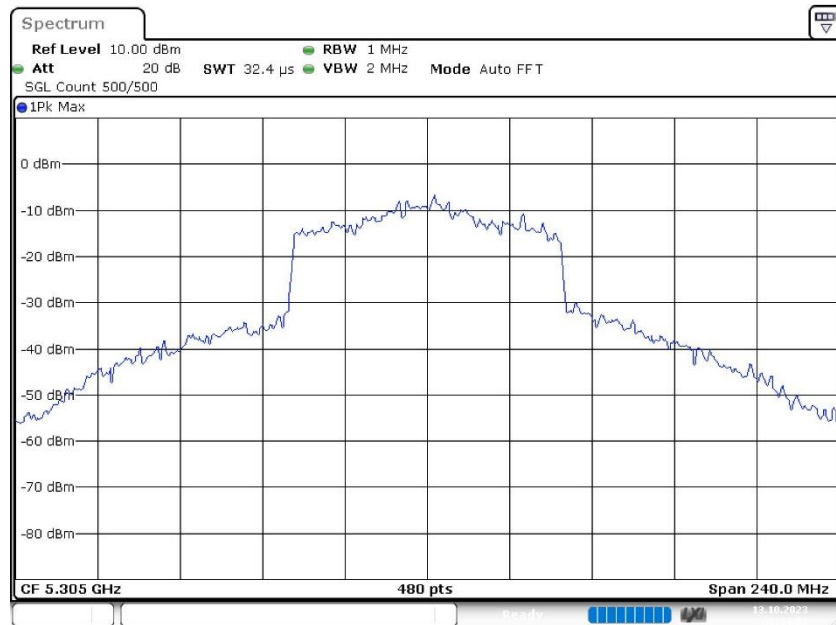
#### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5305.000000	93.000000	---	---	5263.250000	5356.250000

DUT Frequency (MHz)	Max Level (dBm)	Result
5305.000000	10.5	PASS



**Bandwidth**



Date: 13.OCT.2023 00:34:03

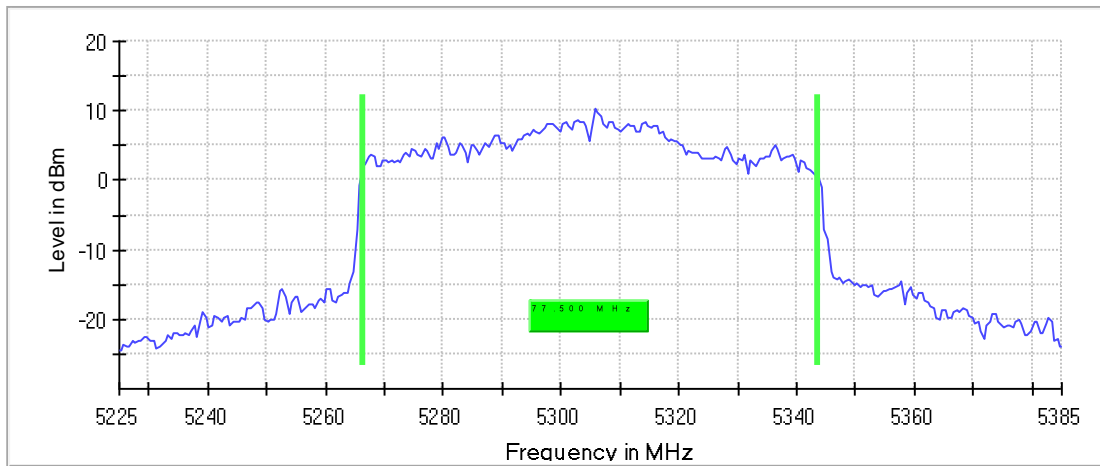
**Occupied Channel Bandwidth 99% (5305 MHz; 24.000 dBm; 80 MHz)**

**99 % Bandwidth**

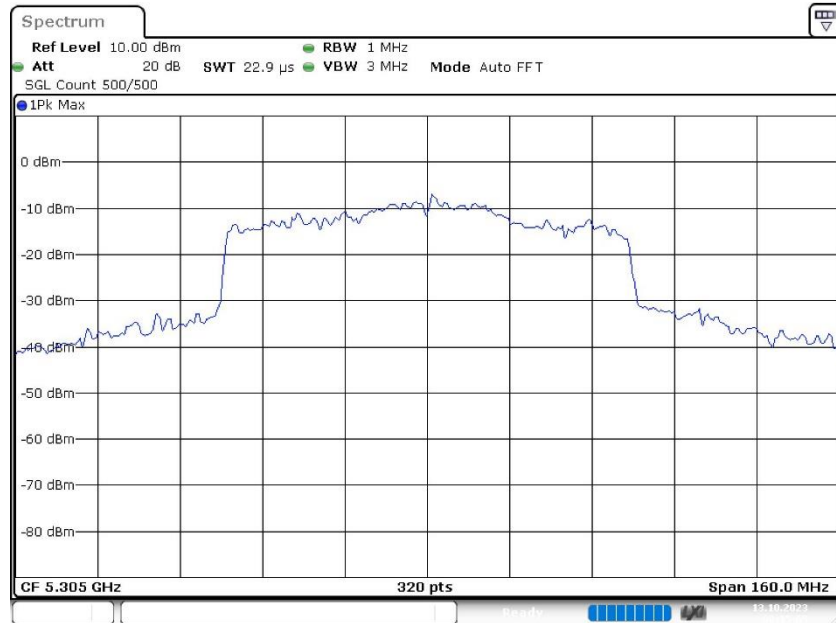
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5305.000000	77.500000	---	---	5266.250000	5343.750000

DUT Frequency (MHz)	Result
5305.000000	PASS

99 %Bandwidth



Bandwidth



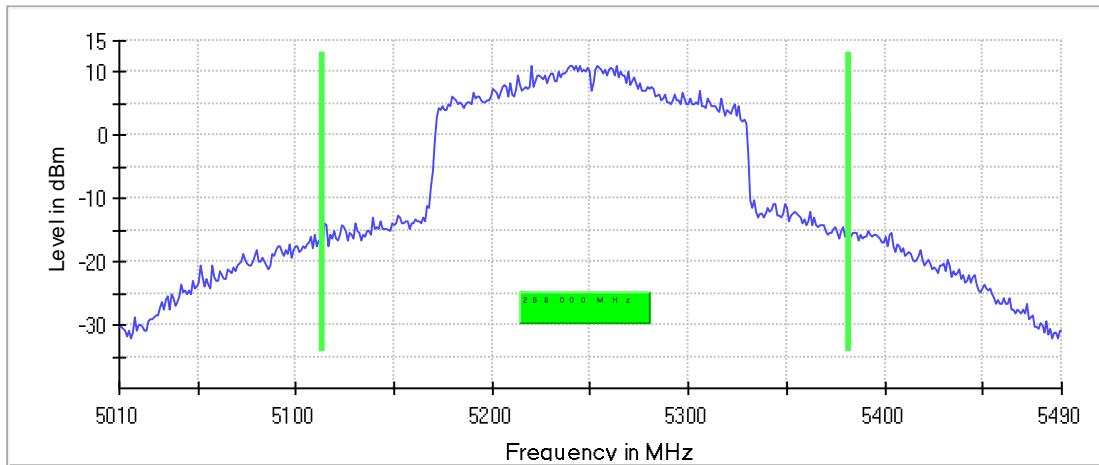
## Emission Bandwidth 26 dB (5250 MHz; 24.000 dBm; 160 MHz)

### 26 dB Bandwidth

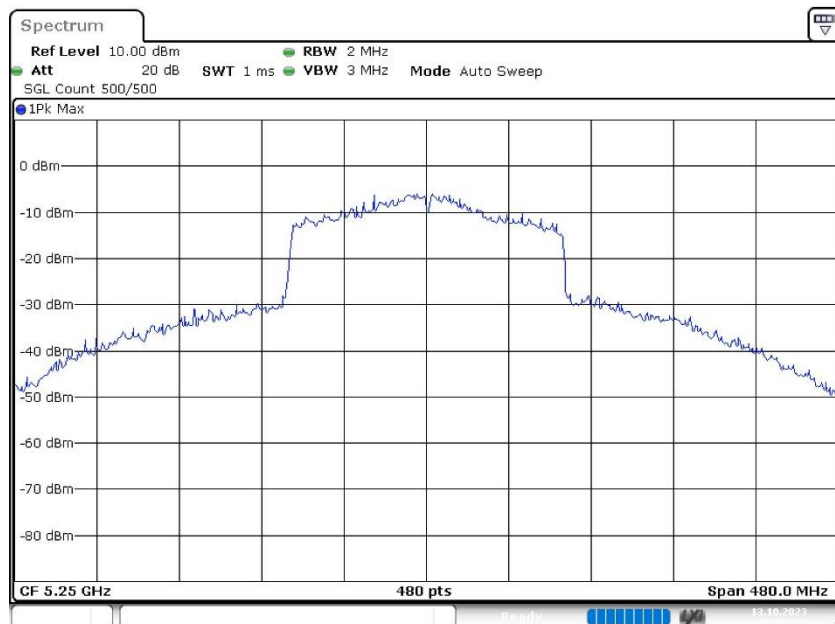
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5250.000000	268.000000	---	---	5113.500000	5381.500000

DUT Frequency (MHz)	Max Level (dBm)	Result
5250.000000	11.2	PASS

26 dB Bandwidth



Bandwidth



Date: 13.OCT.2023 00:35:55

**Occupied Channel Bandwidth 99% (5250 MHz; 24.000 dBm; 160 MHz)**

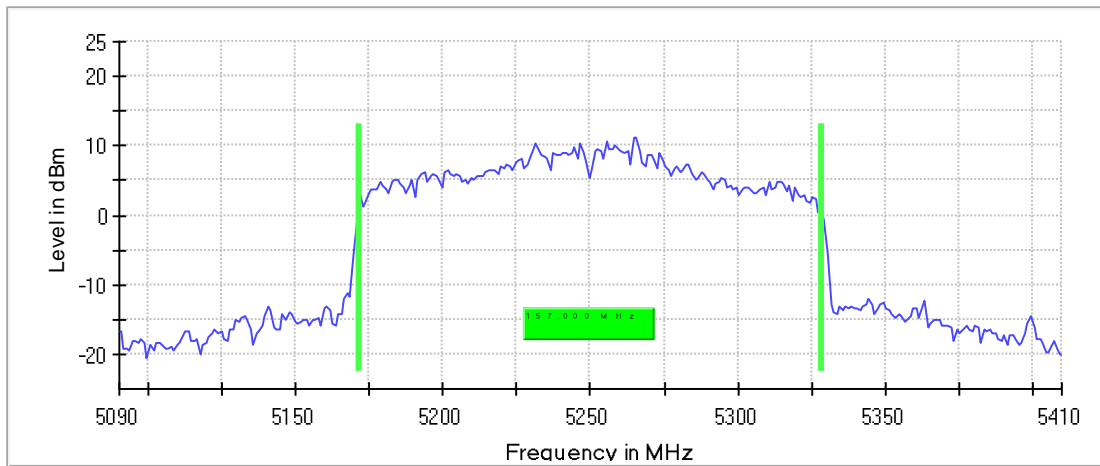
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5250.000000	157.000000	---	---	5171.500000	5328.500000

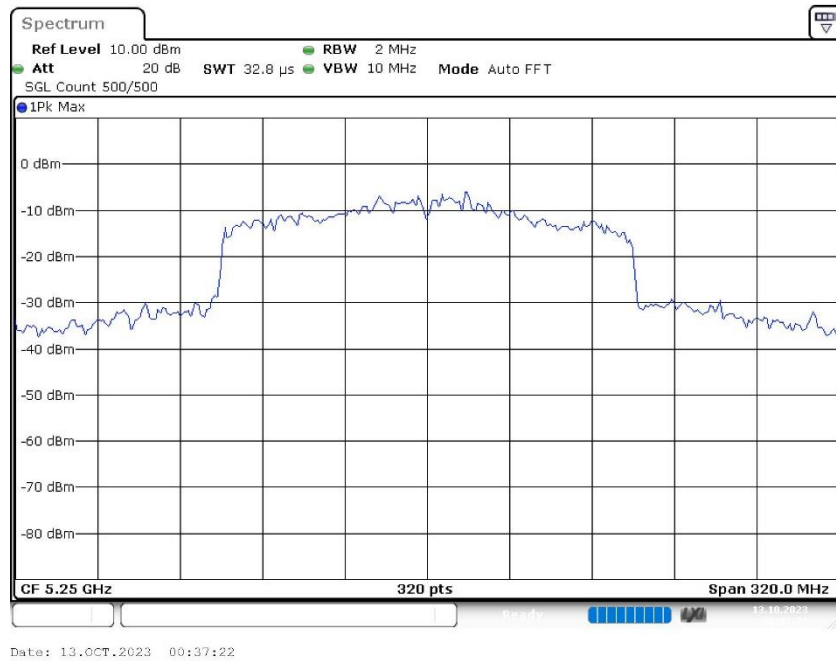
DUT Frequency (MHz)	Result
5250.000000	PASS



99 %Bandwidth



Bandwidth



-- End of Report --