

U6-Extender UNII-2a Annex

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5260.000	30.0	20.000000	PASS
RF output power	5260.000	30.0	20.000000	PASS
Power Spectral Density	5260.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5260.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5280.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5280.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5320.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5320.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5270.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5270.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5310.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5310.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5290.000	30.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5290.000	30.0	80.000000	PASS
Emission Bandwidth 26 dB	5250.000	30.0	160.000000	PASS
Occupied Channel Bandwidth 99%	5250.000	30.0	160.000000	PASS

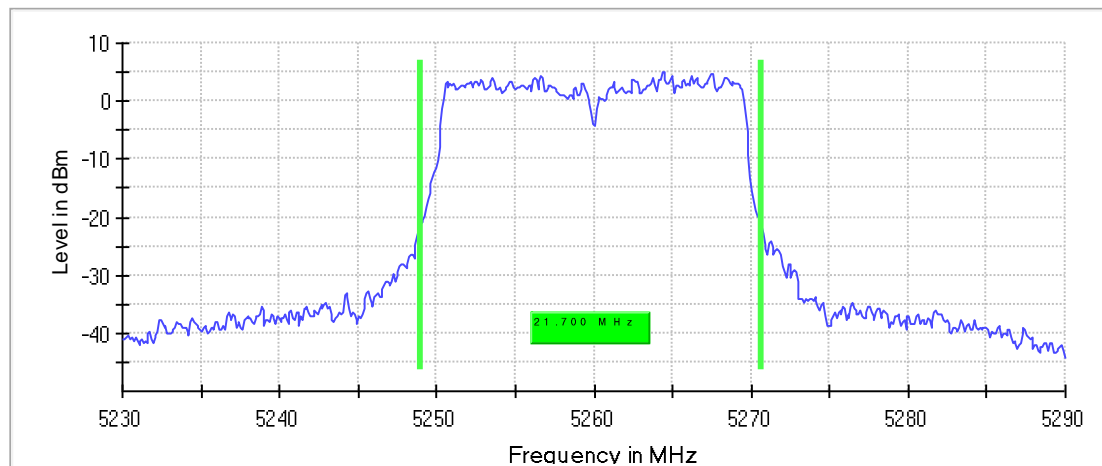
Emission Bandwidth 26 dB (5260 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

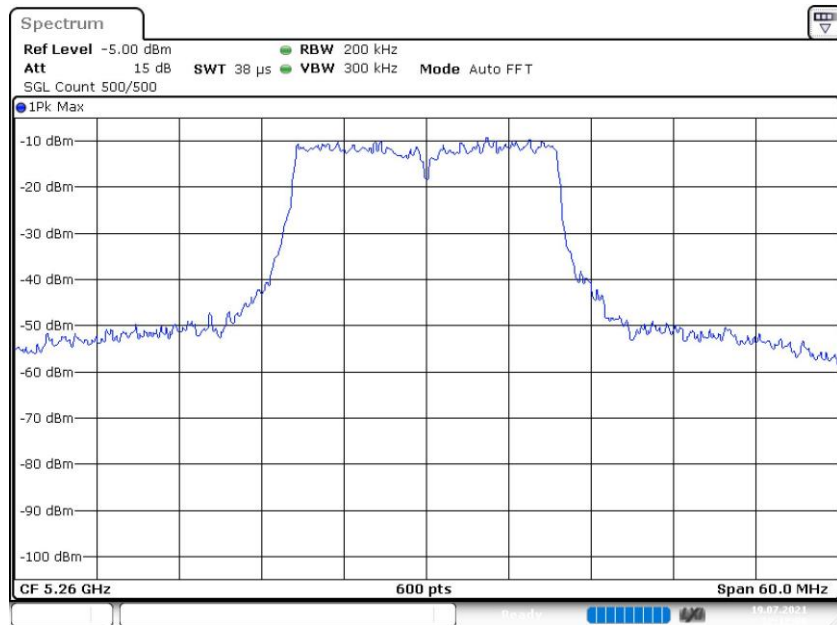
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	21.700000	---	---	5248.950000	5270.650000

DUT Frequency (MHz)	Max Level (dBm)	Result
5260.000000	4.9	PASS

26 dB Bandwidth



Bandwidth



Date: 19.JUL.2021 12:12:31

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
Sweptime	37.969 µs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
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; 30.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5260.000000	23.8	24.0	23.8	85.885	PASS

OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

Power Spectral Density (5260 MHz; 30.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
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5260.000000	5268.316832	8.056	11.0	PASS
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Ports

Port	State
1	used
2	used
3	used
4	used

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	20.000 dBm	20.000 dBm
Attenuation	40.000 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

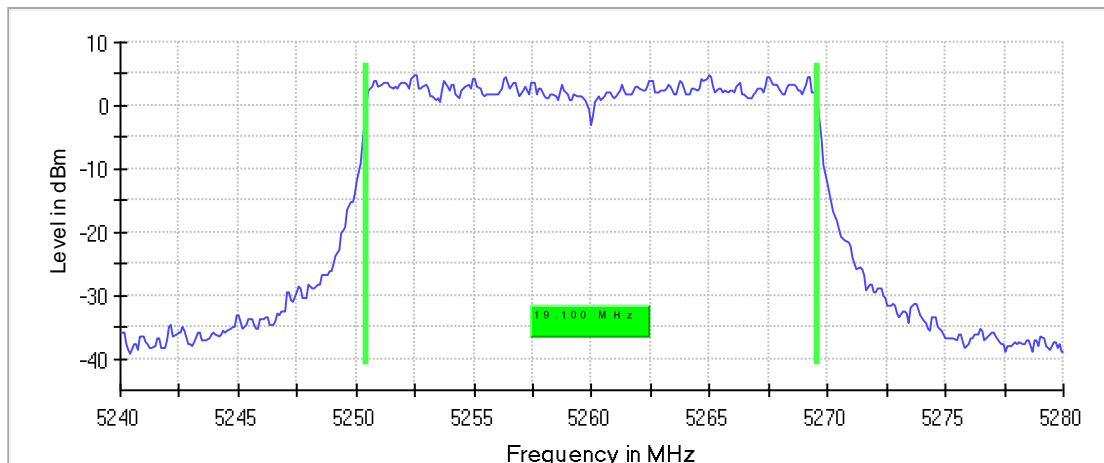
Occupied Channel Bandwidth 99% (5260 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

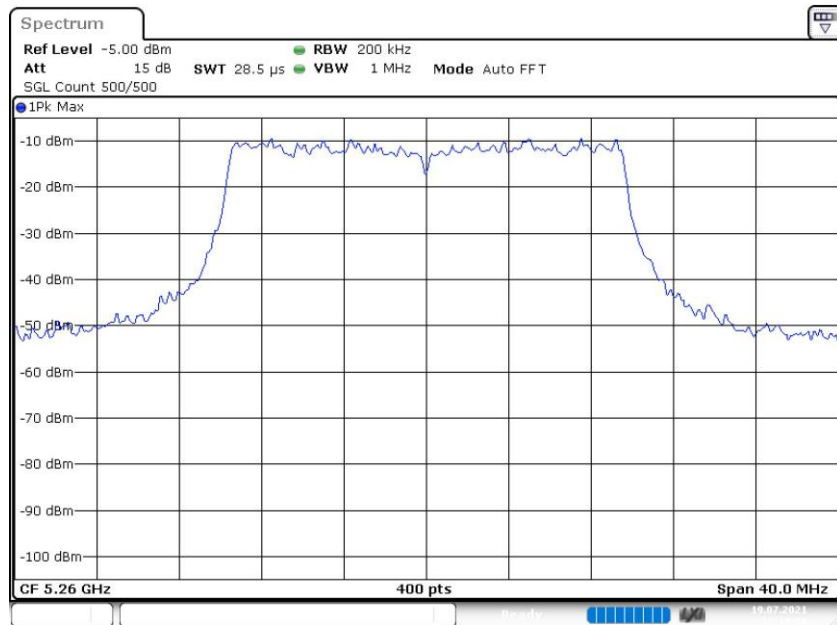
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	19.100000	---	---	5250.450000	5269.550000

DUT Frequency (MHz)	Result
5260.000000	PASS

99 %Bandwidth



Bandwidth



Date: 19.JUL.2021 12:13:50

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
Sweptime	28.477 μs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

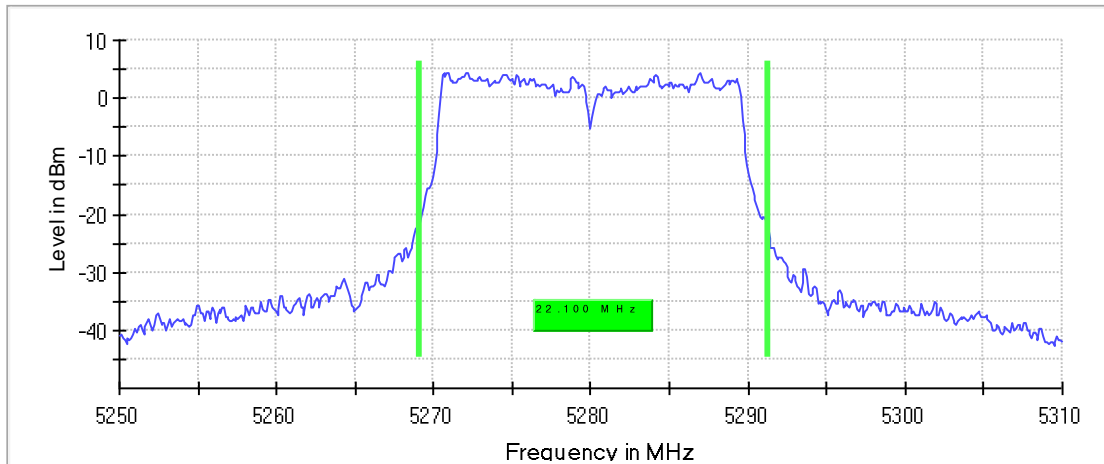
Emission Bandwidth 26 dB (5280 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

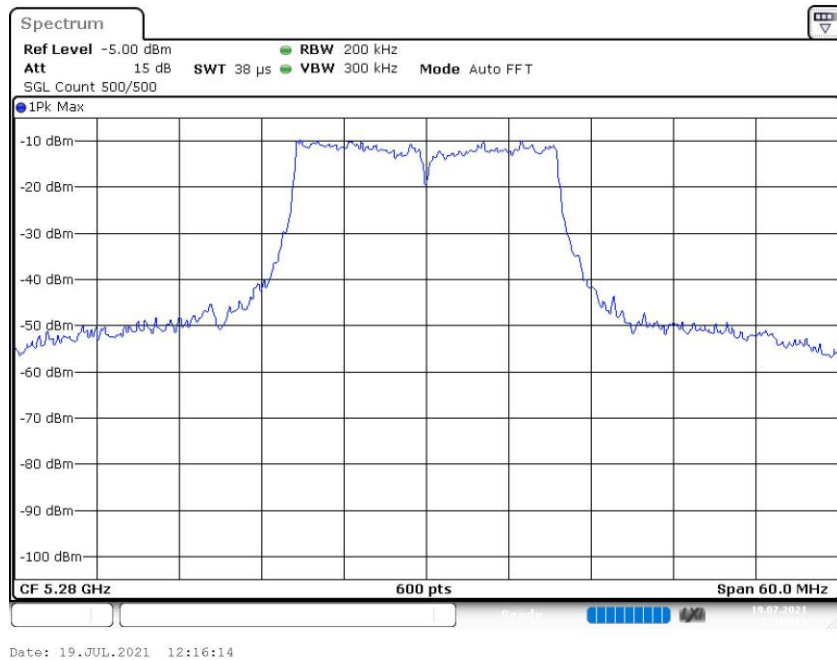
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5280.000000	22.100000	---	---	5269.150000	5291.250000

DUT Frequency (MHz)	Max Level (dBm)	Result
5280.000000	4.4	PASS

26 dB Bandwidth



Bandwidth

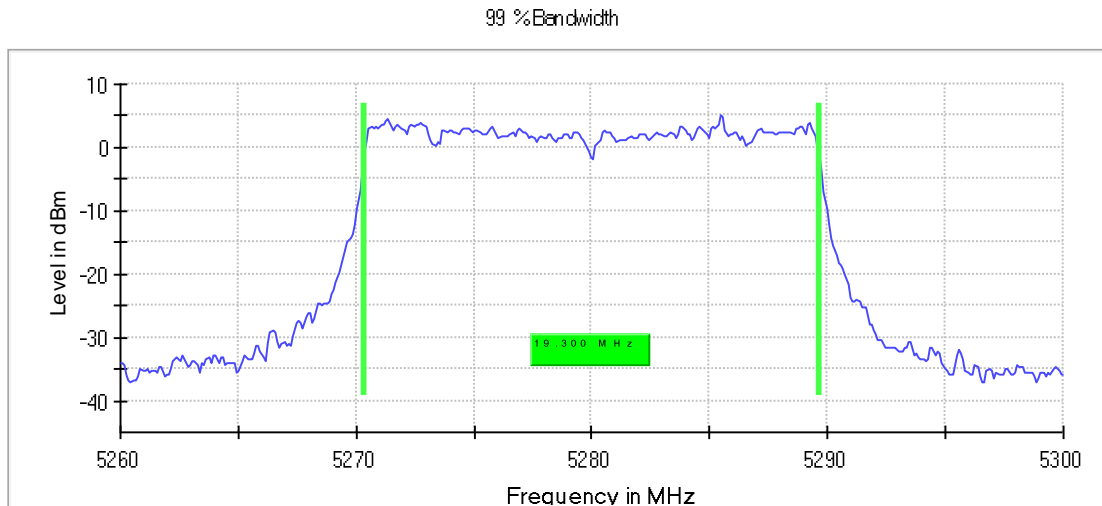


Occupied Channel Bandwidth 99% (5280 MHz; 30.000 dBm; 20 MHz)

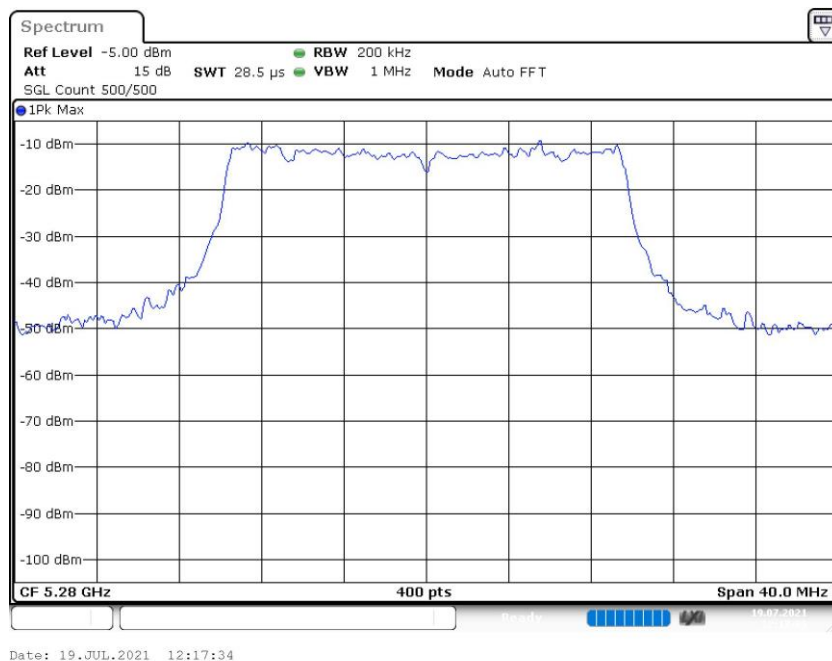
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5280.000000	19.300000	---	---	5270.350000	5289.650000

DUT Frequency (MHz)	Result
5280.000000	PASS



Bandwidth



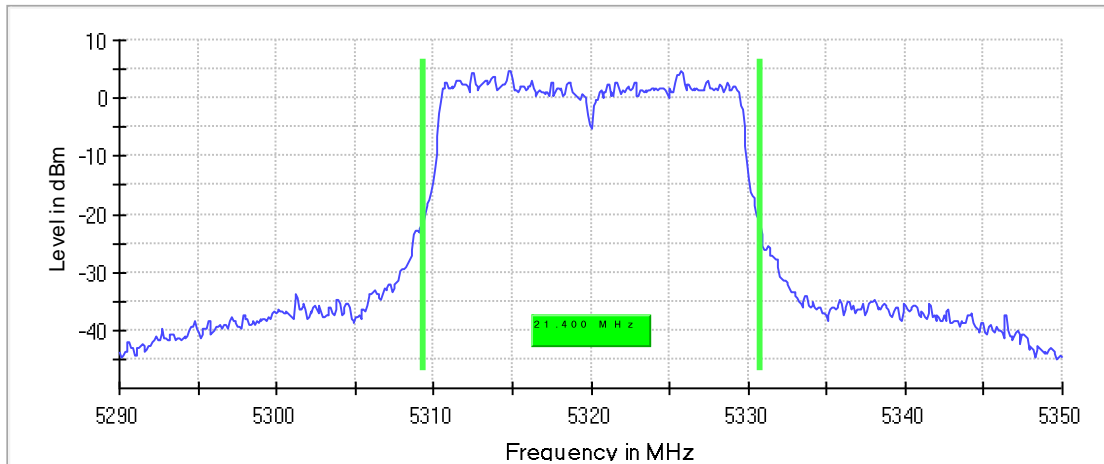
Emission Bandwidth 26 dB (5320 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

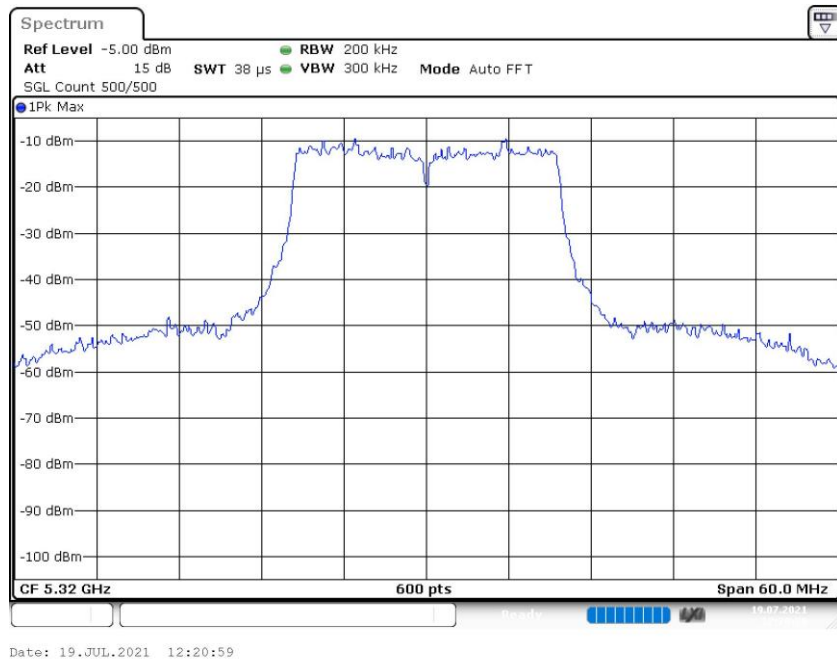
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	21.400000	---	---	5309.350000	5330.750000

DUT Frequency (MHz)	Max Level (dBm)	Result
5320.000000	4.8	PASS

26 dB Bandwidth



Bandwidth



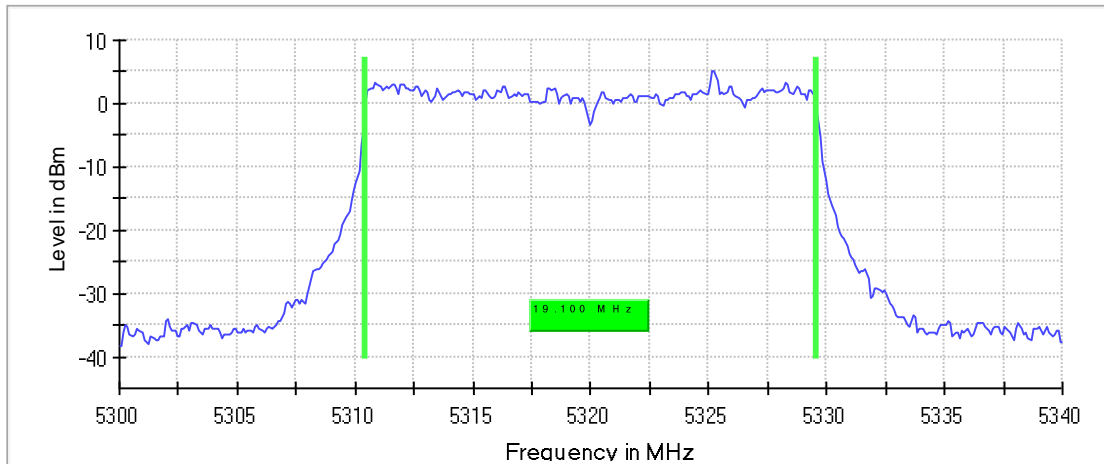
Occupied Channel Bandwidth 99% (5320 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

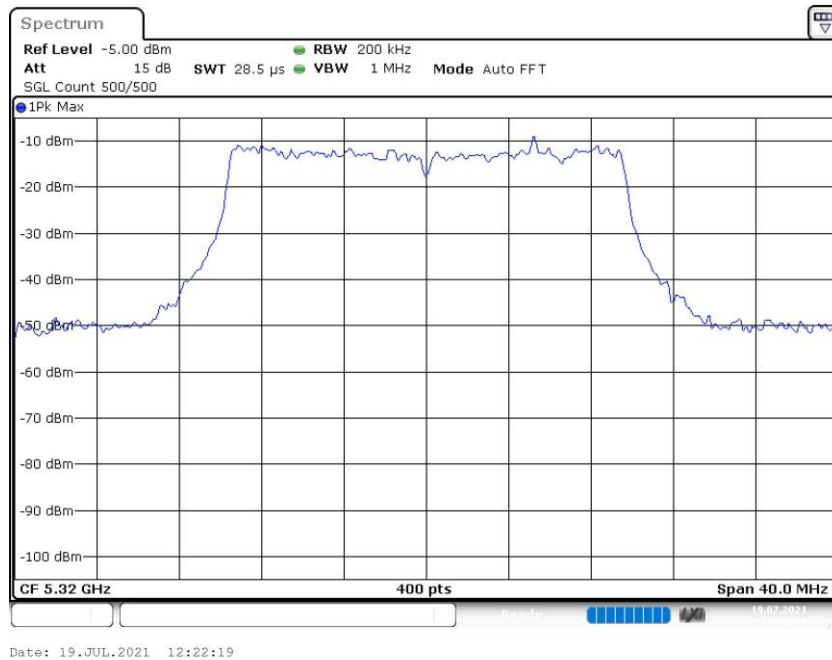
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	19.100000	---	---	5310.450000	5329.550000

DUT Frequency (MHz)	Result
5320.000000	PASS

99 %Bandwidth



Bandwidth



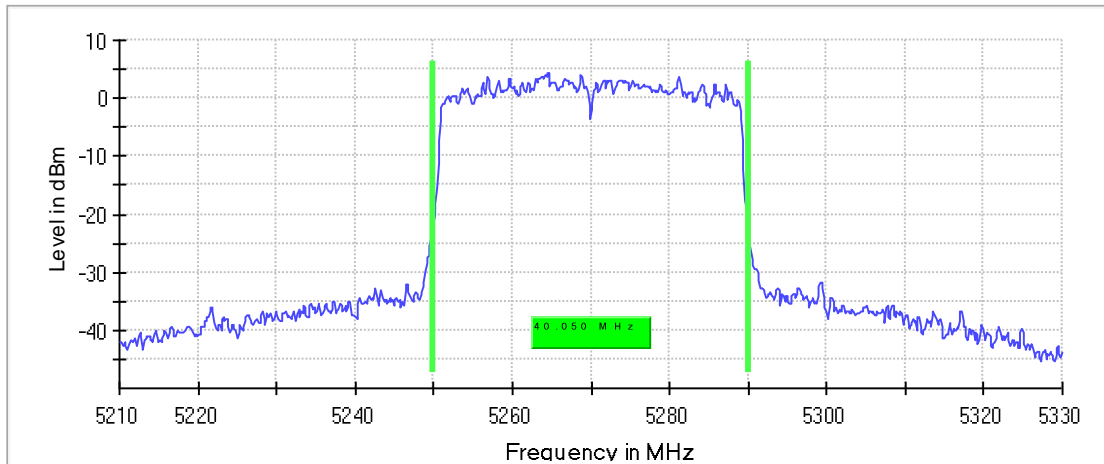
Emission Bandwidth 26 dB (5270 MHz; 30.000 dBm; 40 MHz)

26 dB Bandwidth

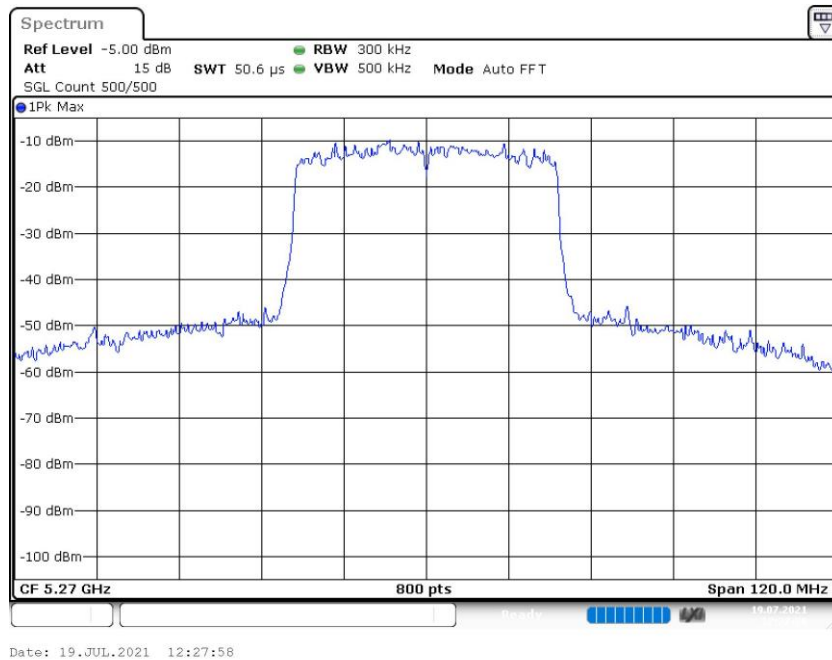
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	40.050000	---	---	5249.975000	5290.025000

DUT Frequency (MHz)	Max Level (dBm)	Result
5270.000000	4.4	PASS

26 dB Bandwidth



Bandwidth



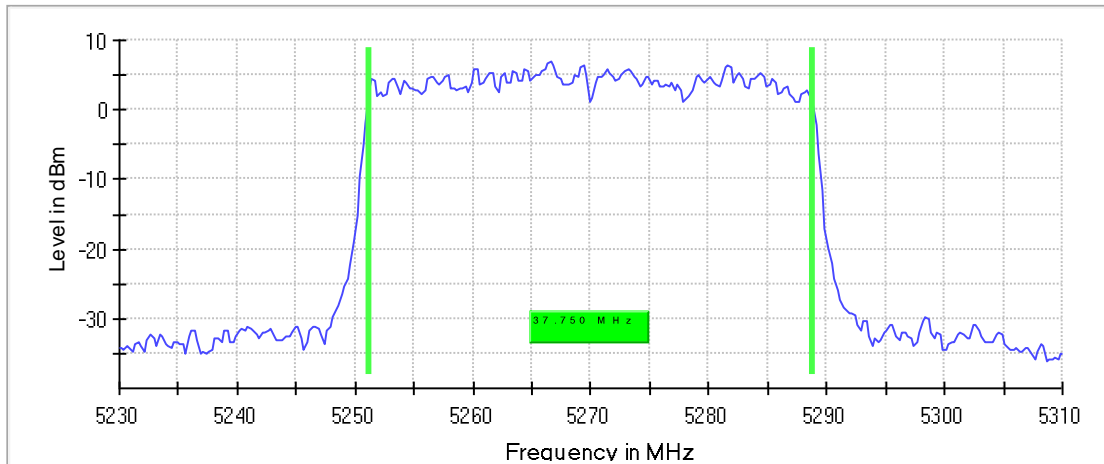
Occupied Channel Bandwidth 99% (5270 MHz; 30.000 dBm; 40 MHz)

99 % Bandwidth

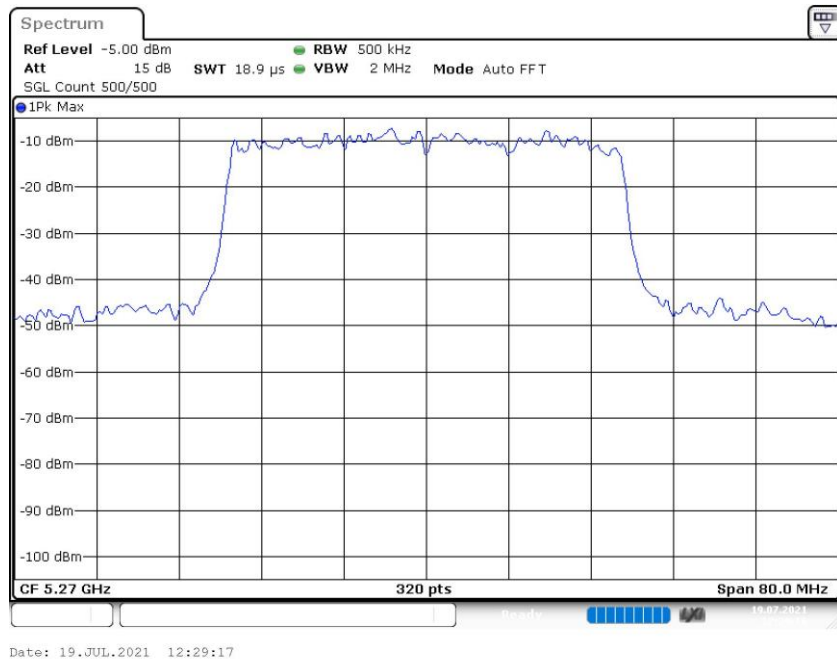
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	37.750000	---	---	5251.125000	5288.875000

DUT Frequency (MHz)	Result
5270.000000	PASS

99 %Bandwidth



Bandwidth



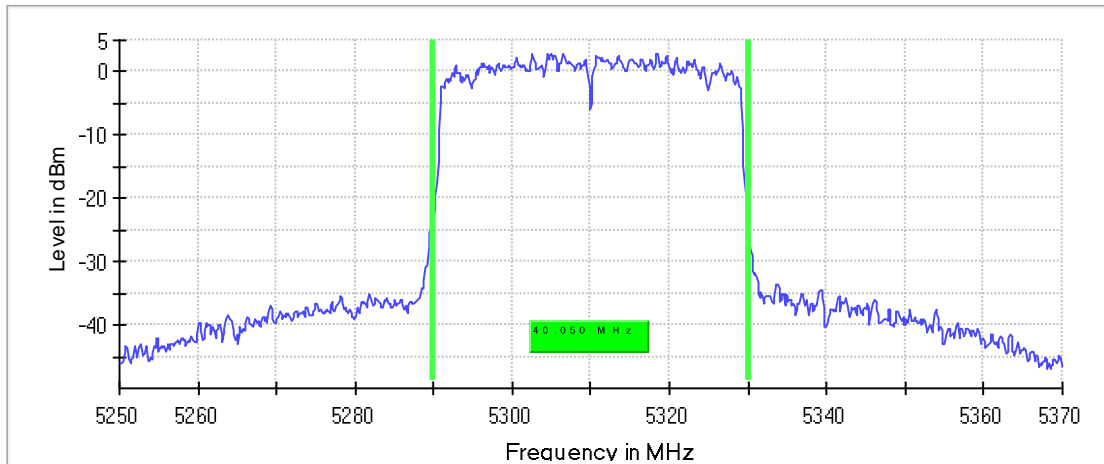
Emission Bandwidth 26 dB (5310 MHz; 30.000 dBm; 40 MHz)

26 dB Bandwidth

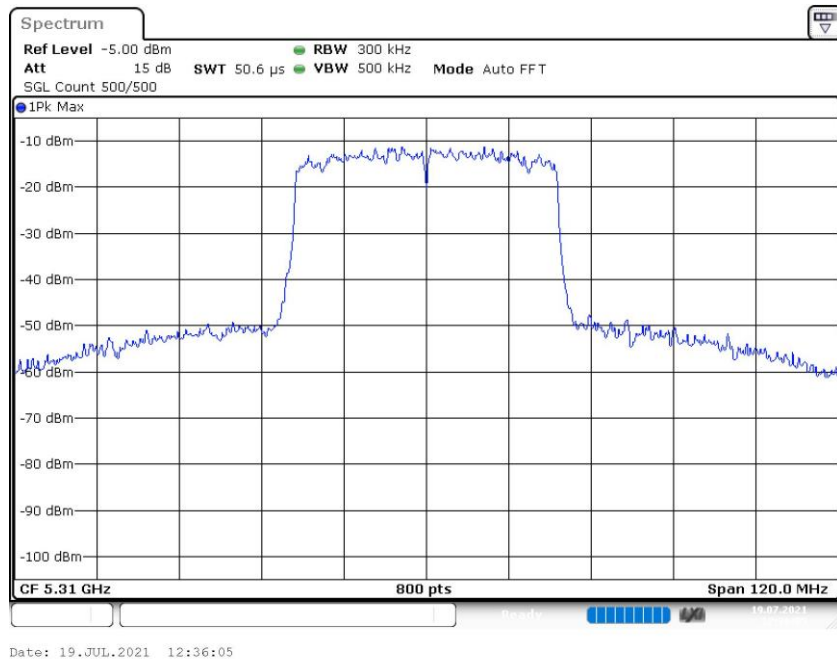
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5310.000000	40.050000	---	---	5289.975000	5330.025000

DUT Frequency (MHz)	Max Level (dBm)	Result
5310.000000	3.0	PASS

26 dB Bandwidth



Bandwidth



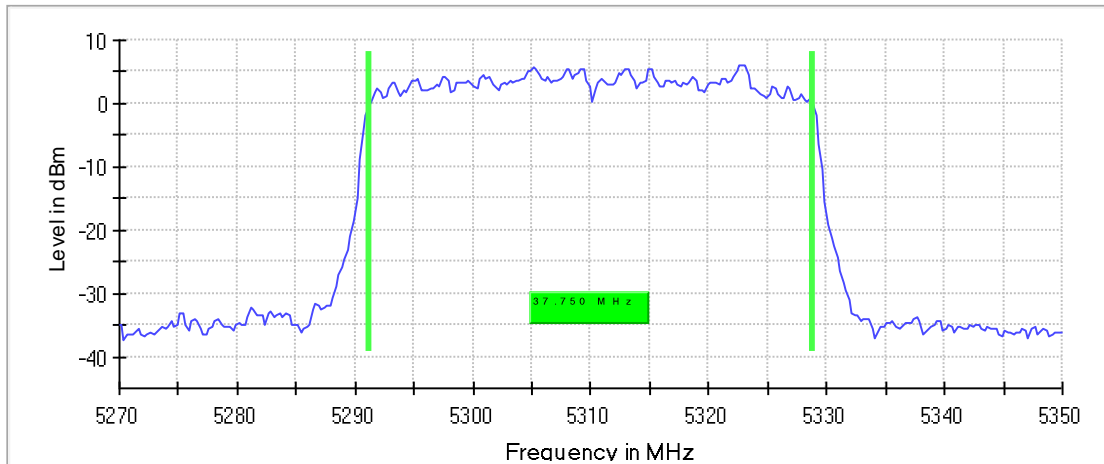
Occupied Channel Bandwidth 99% (5310 MHz; 30.000 dBm; 40 MHz)

99 % Bandwidth

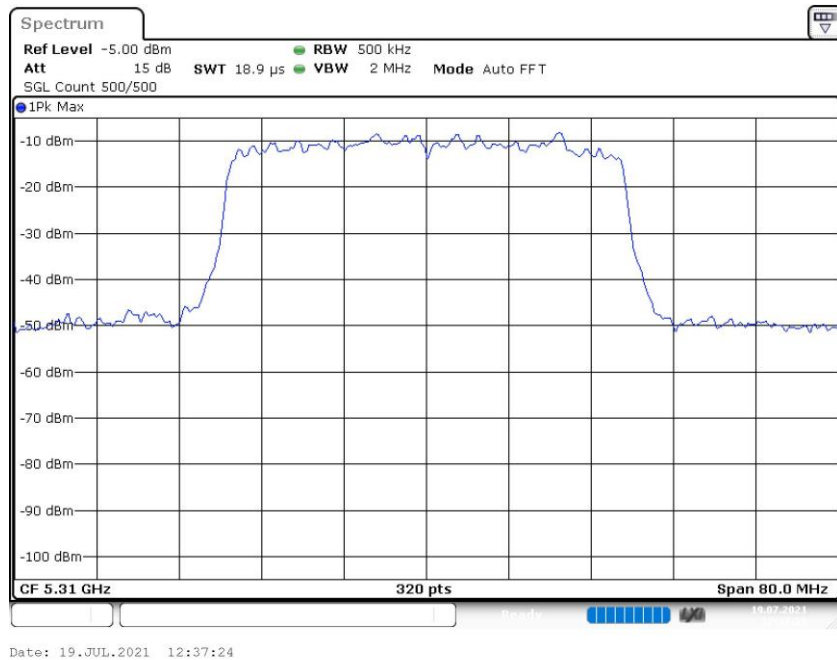
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5310.000000	37.750000	---	---	5291.125000	5328.875000

DUT Frequency (MHz)	Result
5310.000000	PASS

99 %Bandwidth



Bandwidth



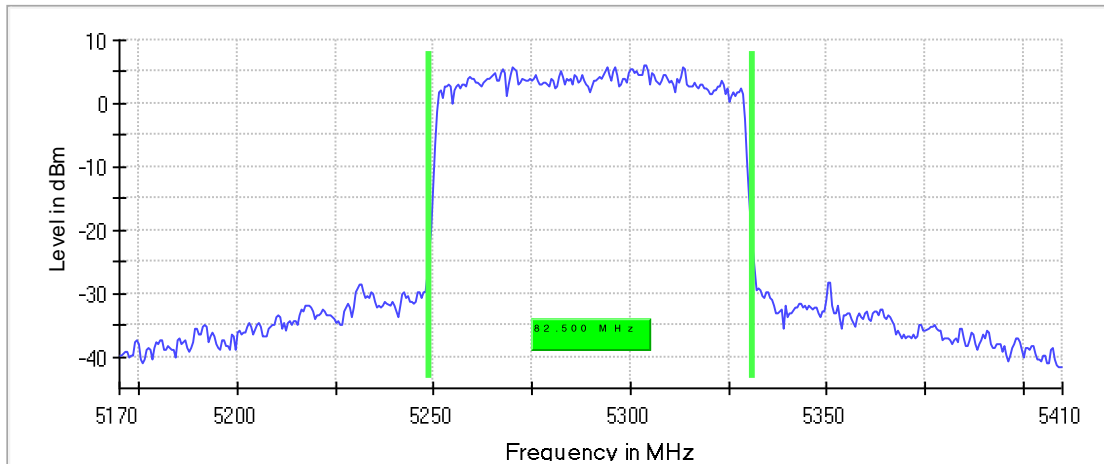
Emission Bandwidth 26 dB (5290 MHz; 30.000 dBm; 80 MHz)

26 dB Bandwidth

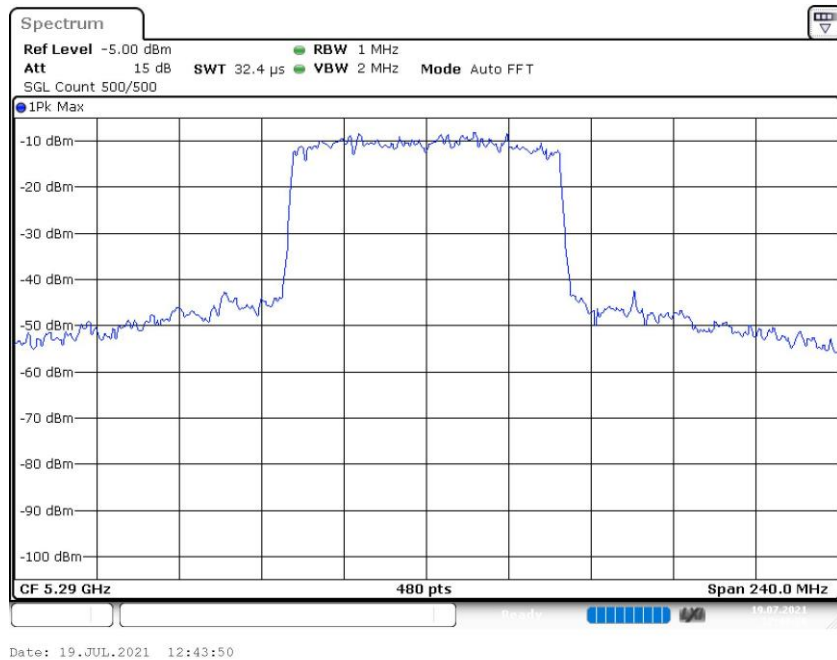
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	82.500000	---	---	5248.750000	5331.250000

DUT Frequency (MHz)	Max Level (dBm)	Result
5290.000000	6.2	PASS

26 dB Bandwidth



Bandwidth



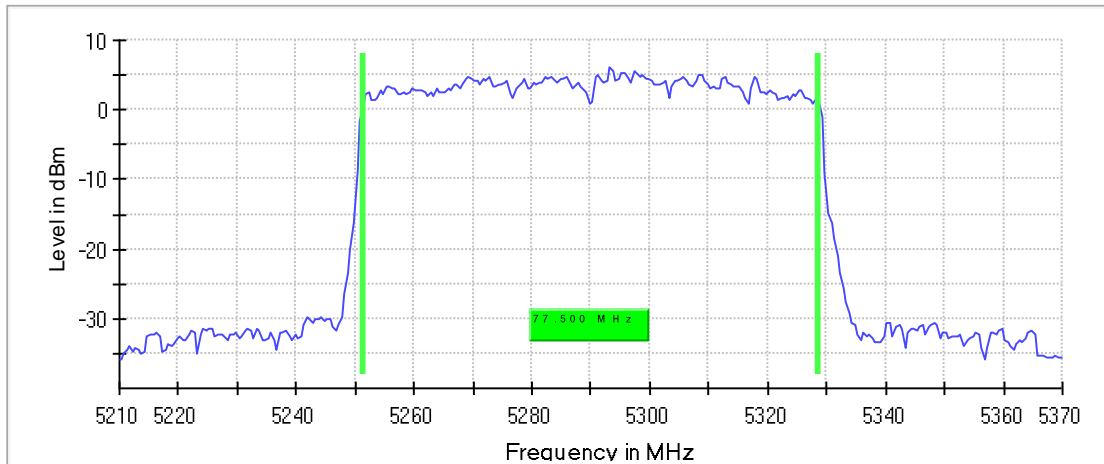
Occupied Channel Bandwidth 99% (5290 MHz; 30.000 dBm; 80 MHz)

99 % Bandwidth

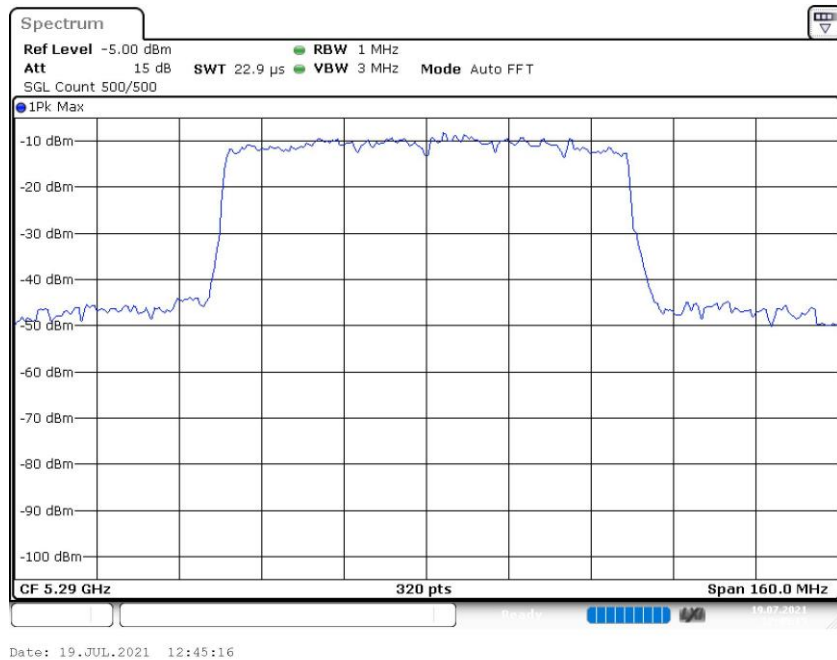
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	77.500000	---	---	5251.250000	5328.750000

DUT Frequency (MHz)	Result
5290.000000	PASS

99 %Bandwidth



Bandwidth



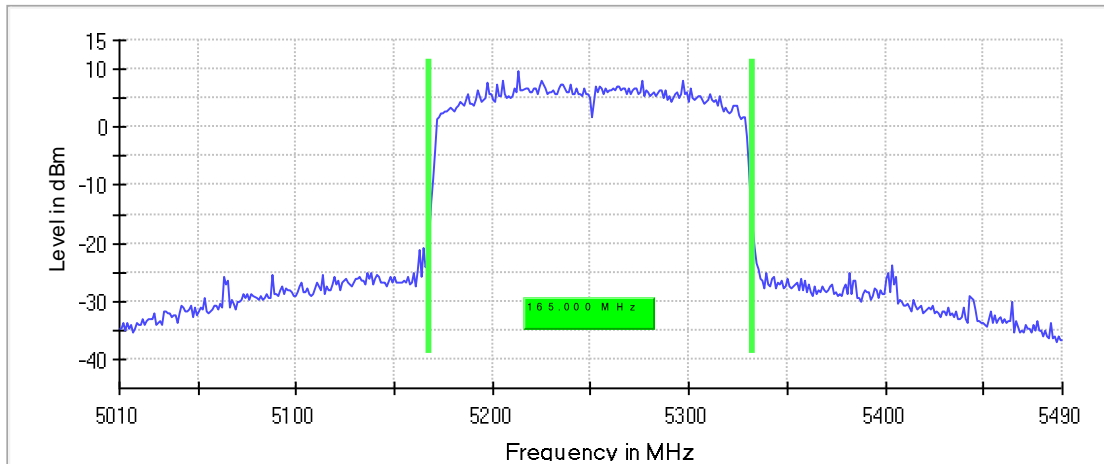
Emission Bandwidth 26 dB (5250 MHz; 30.000 dBm; 160 MHz)

26 dB Bandwidth

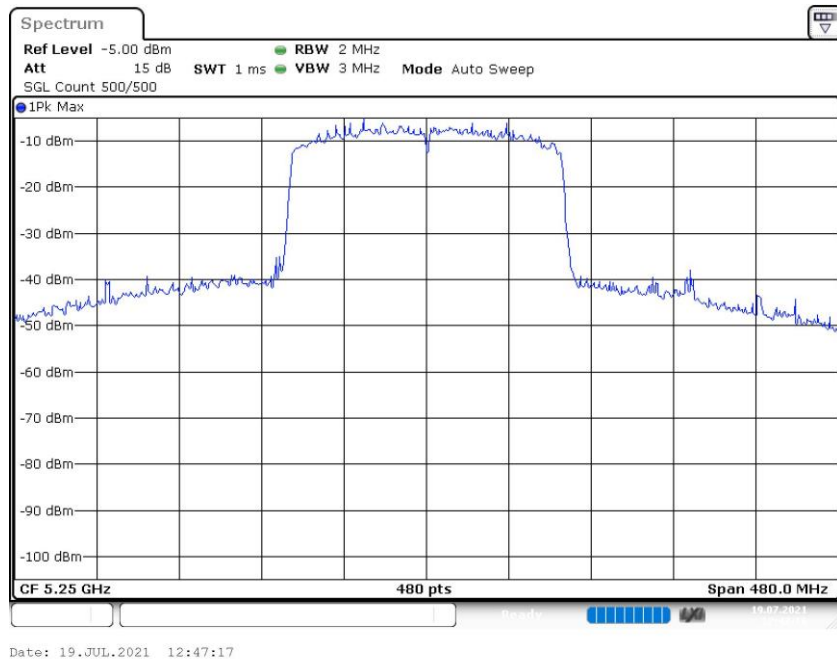
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5250.000000	165.000000	---	---	5167.500000	5332.500000

DUT Frequency (MHz)	Max Level (dBm)	Result
5250.000000	9.8	PASS

26 dB Bandwidth



Bandwidth



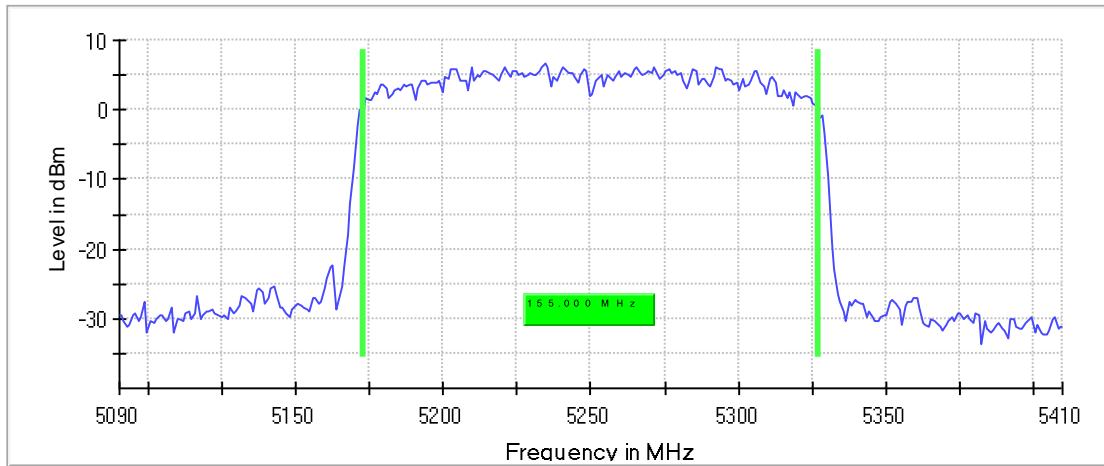
Occupied Channel Bandwidth 99% (5250 MHz; 30.000 dBm; 160 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5250.000000	155.000000	---	---	5172.500000	5327.500000

DUT Frequency (MHz)	Result
5250.000000	PASS

99 %Bandwidth



Bandwidth

