

# Conducted test results

No.23-1-0061401T004a-A6a

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August 02, 2023

Test Standard(s)                      FCC 15.407

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## # Message with SA scan ~

### References

TC start	24.07.2023 15:04:46
Ambit temp [°C]   humidity [rel%]	25.5   53
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_1
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 15:04:47
Message	set WLAN5Gx to a_mode_U_NII_1, Frequency [MHz] 5180 ,

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:05:04
Ambit temp [°C]   humidity [rel%]	25.4   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	PS69

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Test at TX 5180 MHz

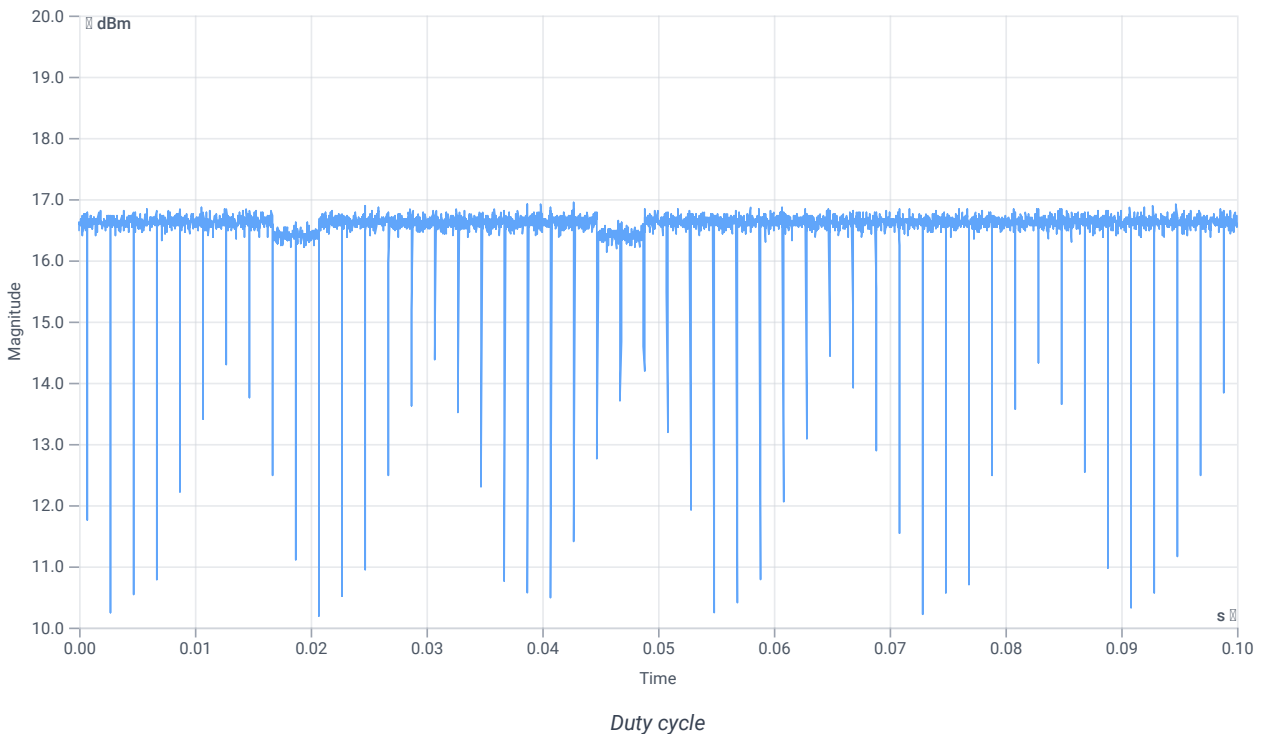
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.02	dBm	INFO
Ref. Frequency	--	--	5181.600	MHz	INFO

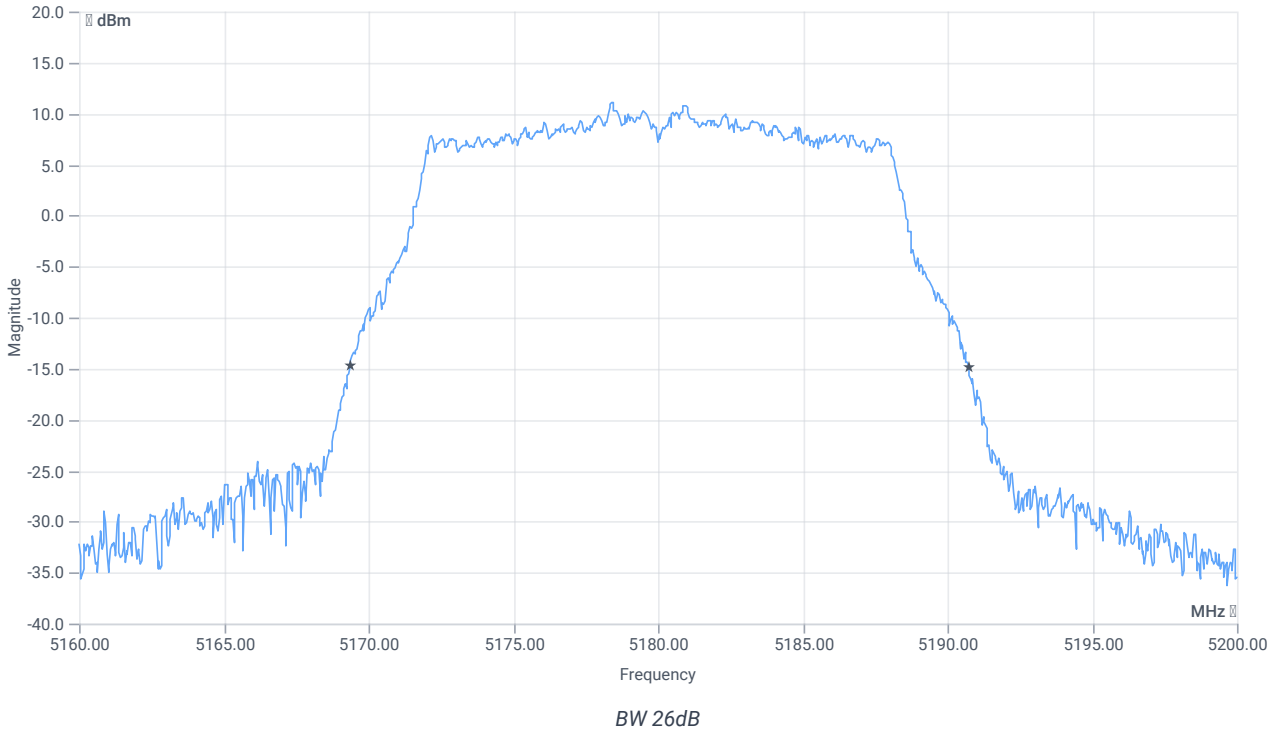
### Evaluation max. Duty Cycle

#### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



### Evaluation Bandwidth



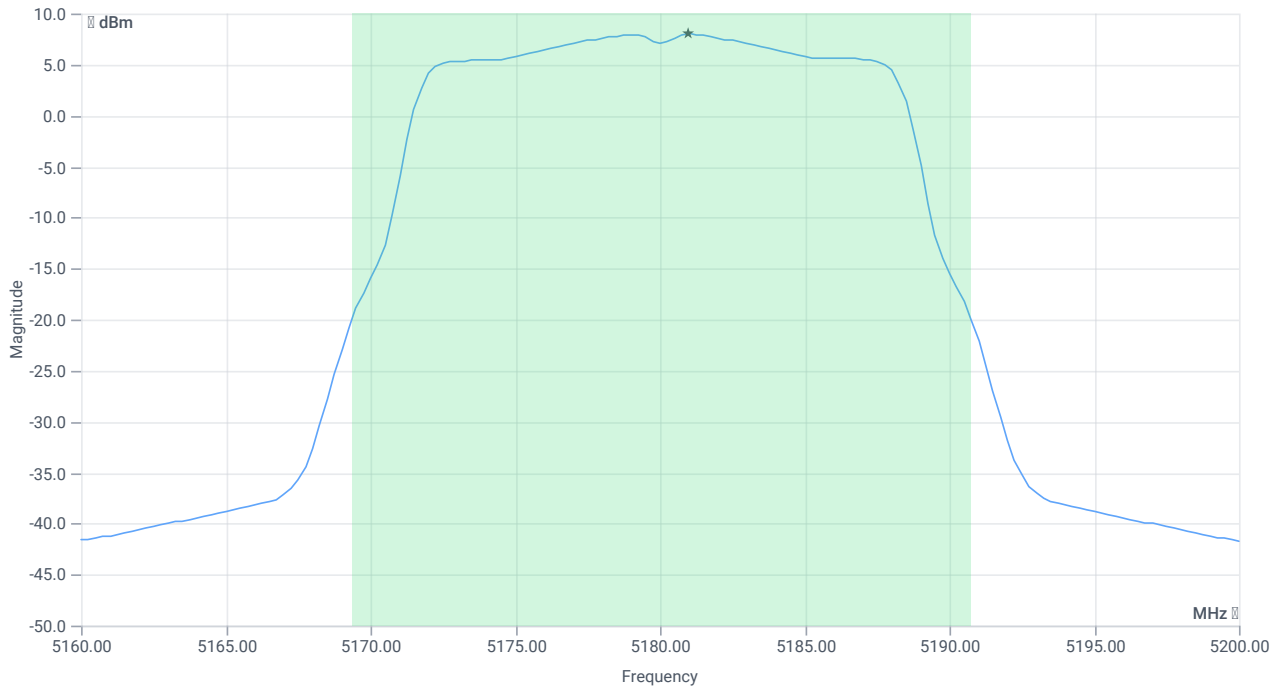
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.36	MHz	INFO
T1 26dB	---	---	5169.3600	MHz	INFO
T2 26dB	---	---	5190.7200	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.02   16.39   25
Start [MHz]   Stop [MHz]	5160.000   5200.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.48	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.48	dBm	PASS
Limit: 11 dBm + 10 log 21.36					
Max Output Power DC corrected	--	24.3	18.48	dBm	na

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.98	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.98	dBm/1MHz	PASS

### Verdict

PASS



# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1

## References

TC start	24.07.2023 15:06:35
Ambit temp [°C]   humidity [rel%]	25.4   53
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Information	PS69

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

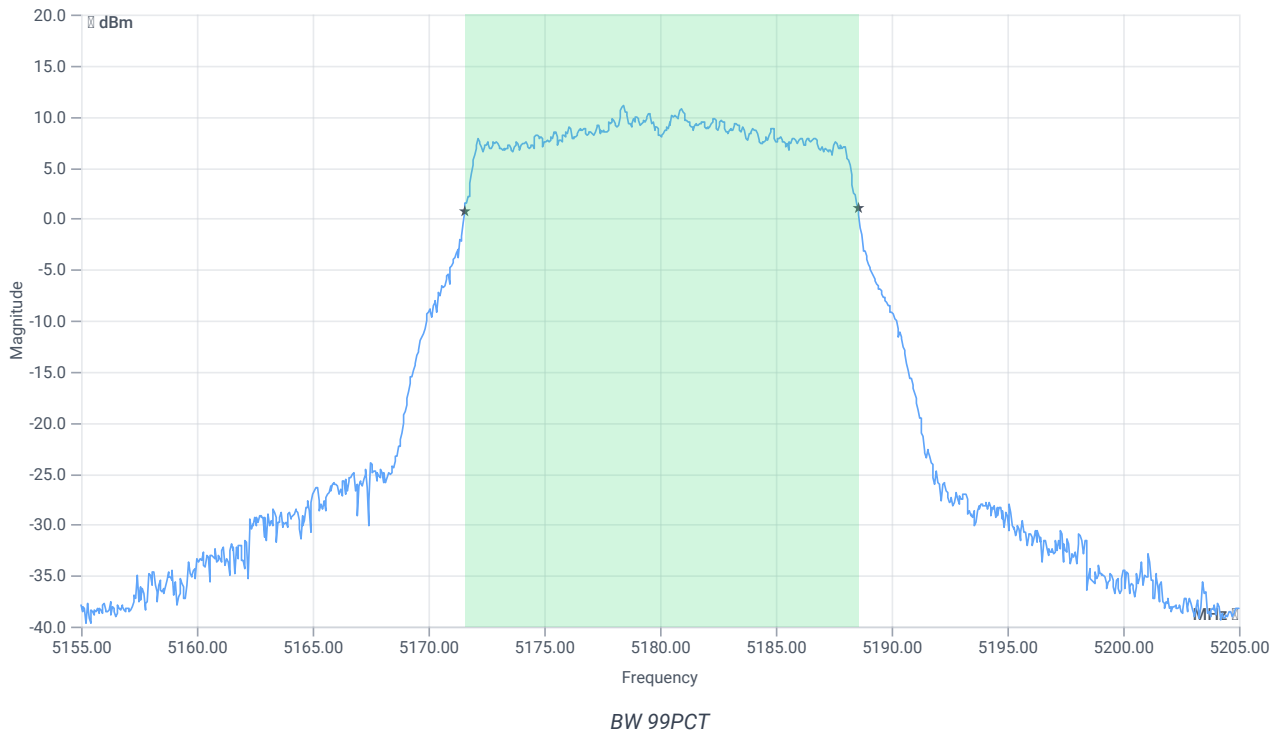
## Test at TX 5180 MHz

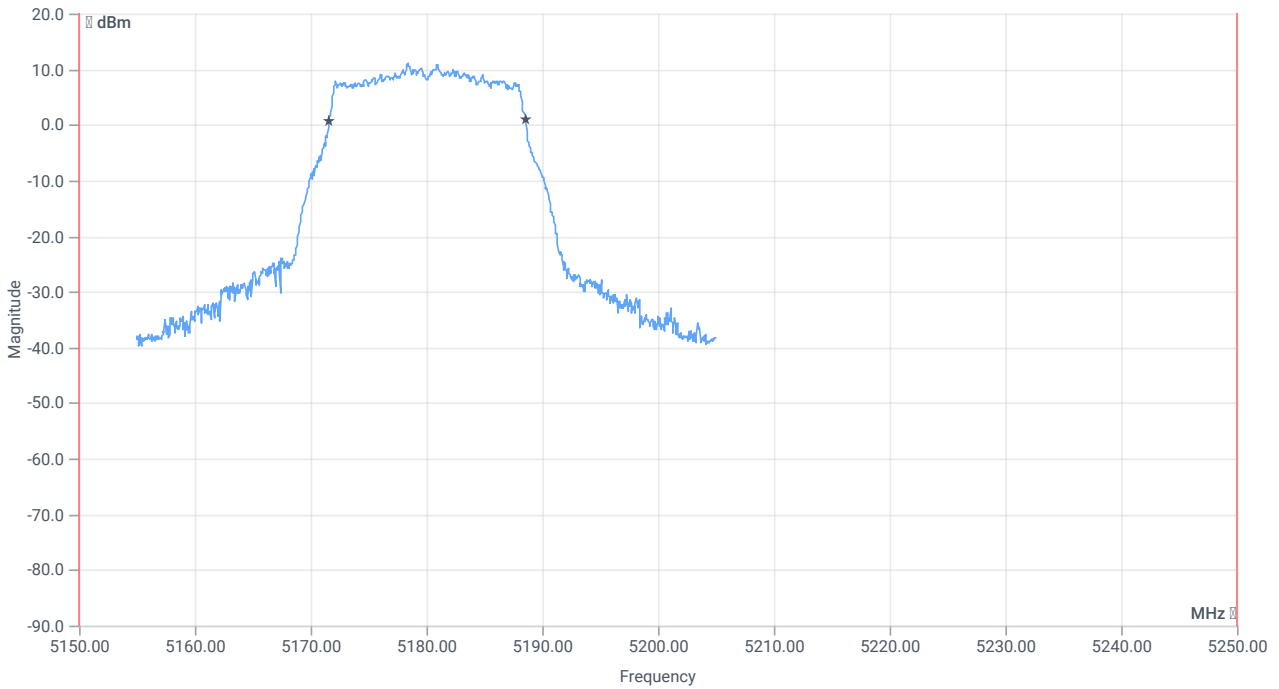
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.61	dBm	INFO
Ref. Frequency	--	--	5178.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.61   16.39   25
Start [MHz]   Stop [MHz]	5155.000   5205.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

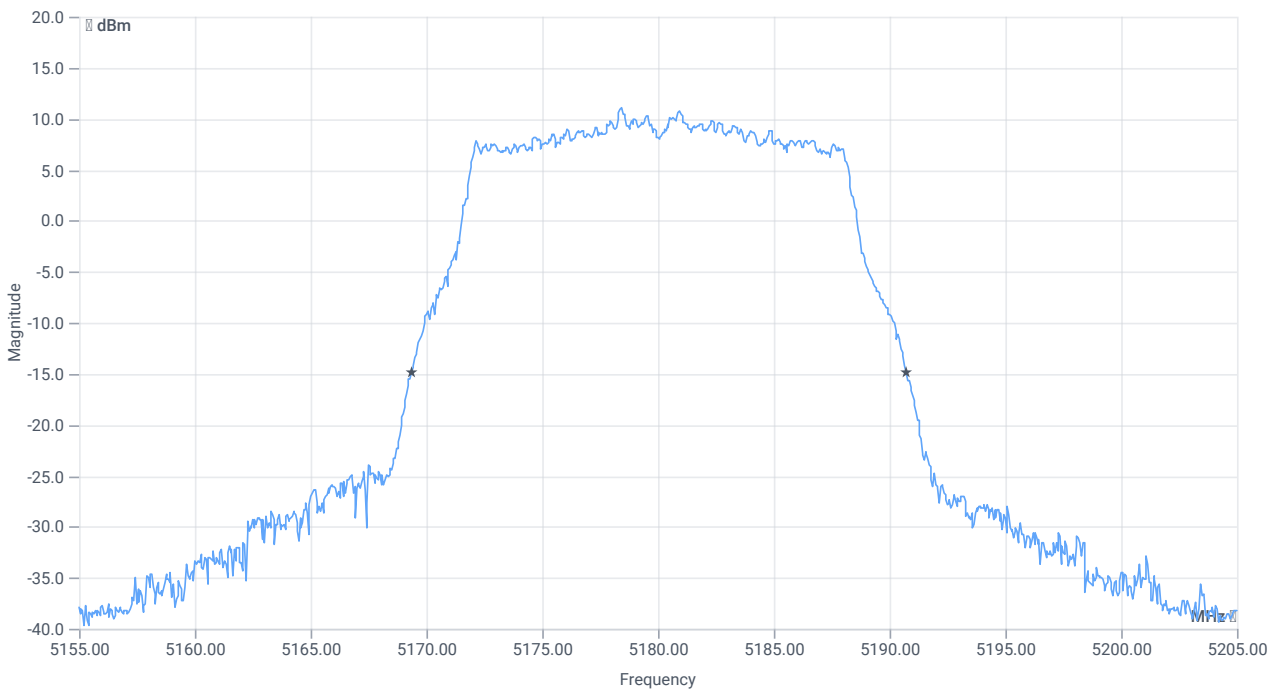




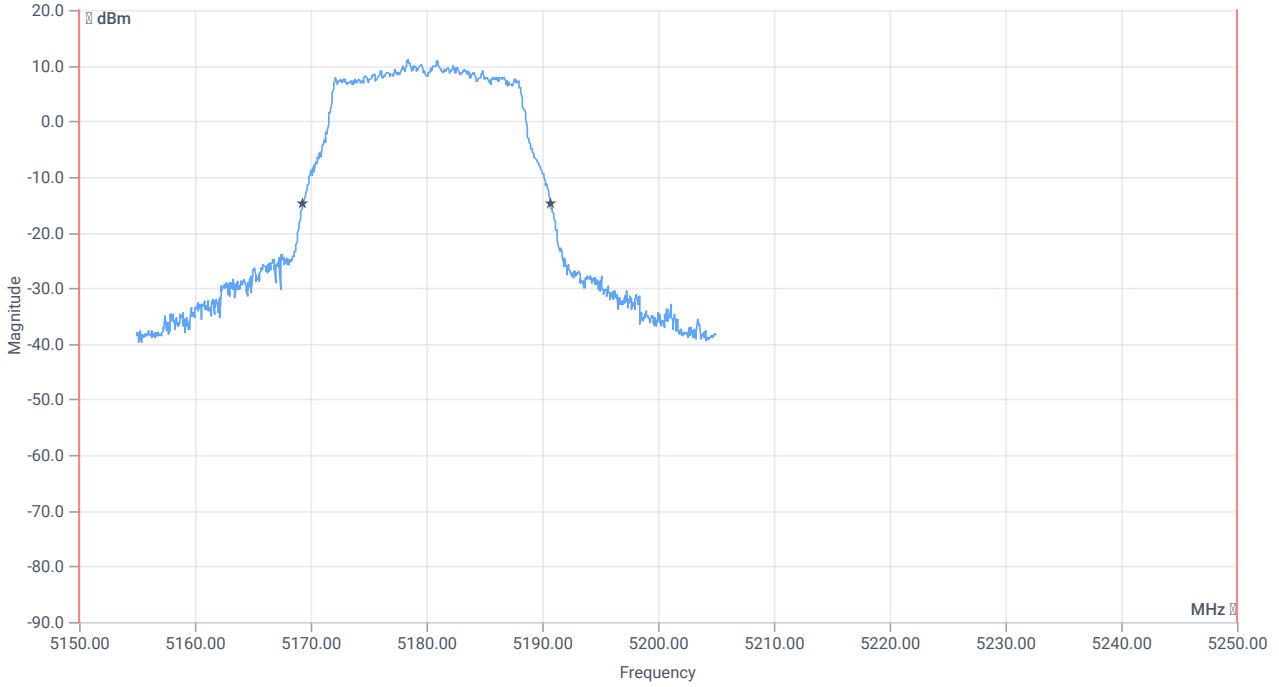
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	16.983	MHz	INFO
T1 99%	5150.000000	--	5171.5584	MHz	PASS
T2 99%	--	5250.000000	5188.5415	MHz	PASS



BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.35	MHz	INFO
T1 26dB	5150.000000	---	5169.3500	MHz	PASS
T2 26dB	---	5250.000000	5190.7000	MHz	PASS

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:07:12
Ambit temp [°C]   humidity [rel%]	25.5   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	PS69

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5180 MHz

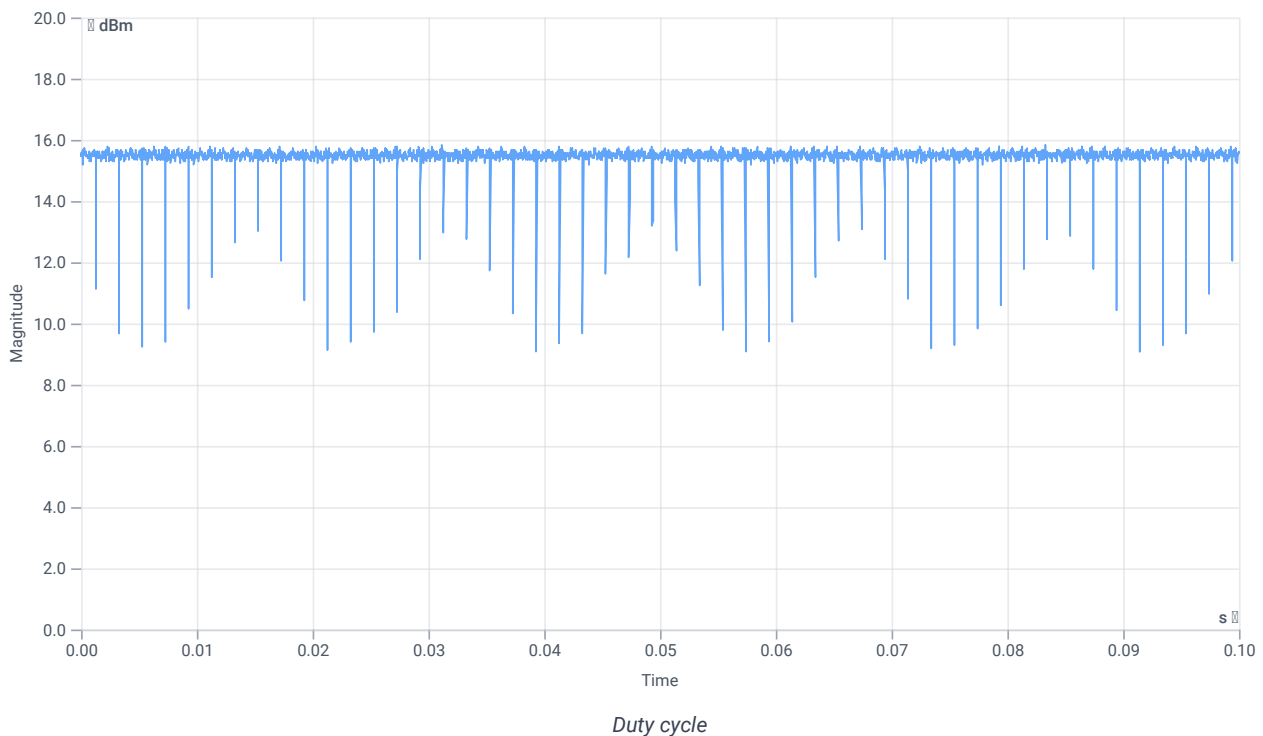
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	14.92	dBm	INFO
Ref. Frequency	--	--	5178.800	MHz	INFO

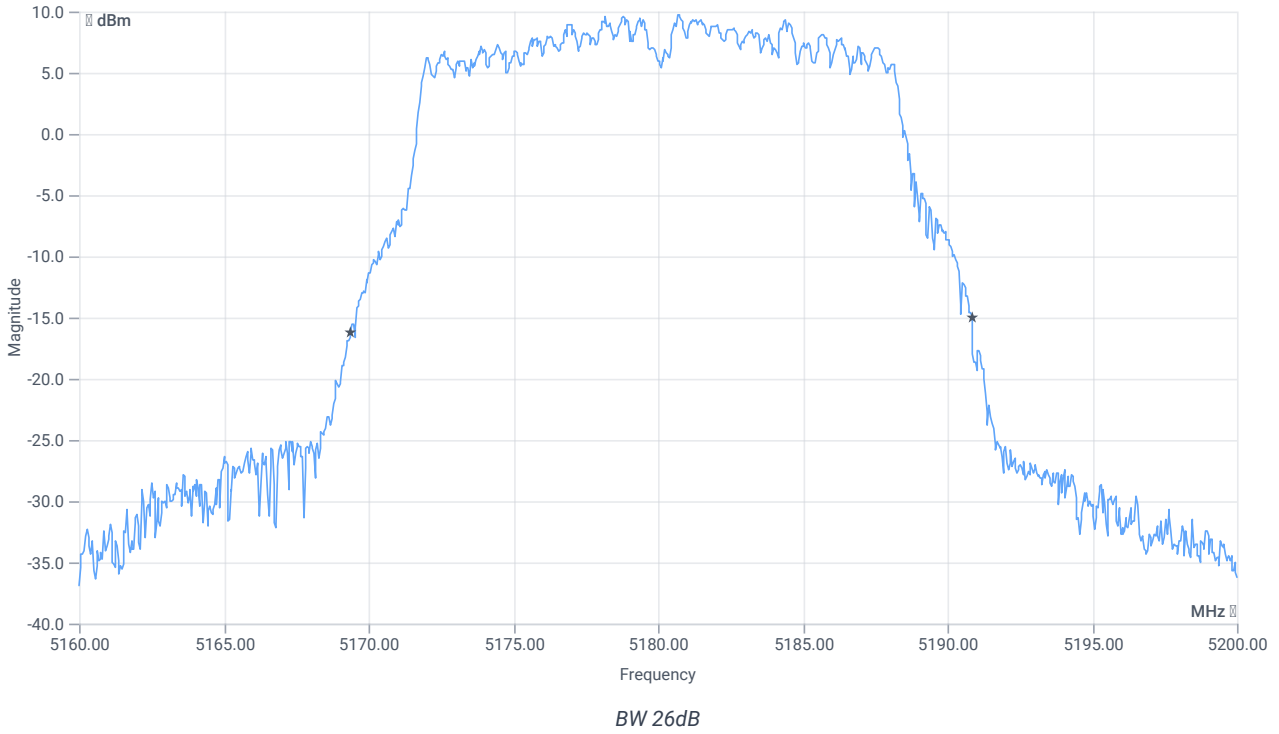
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



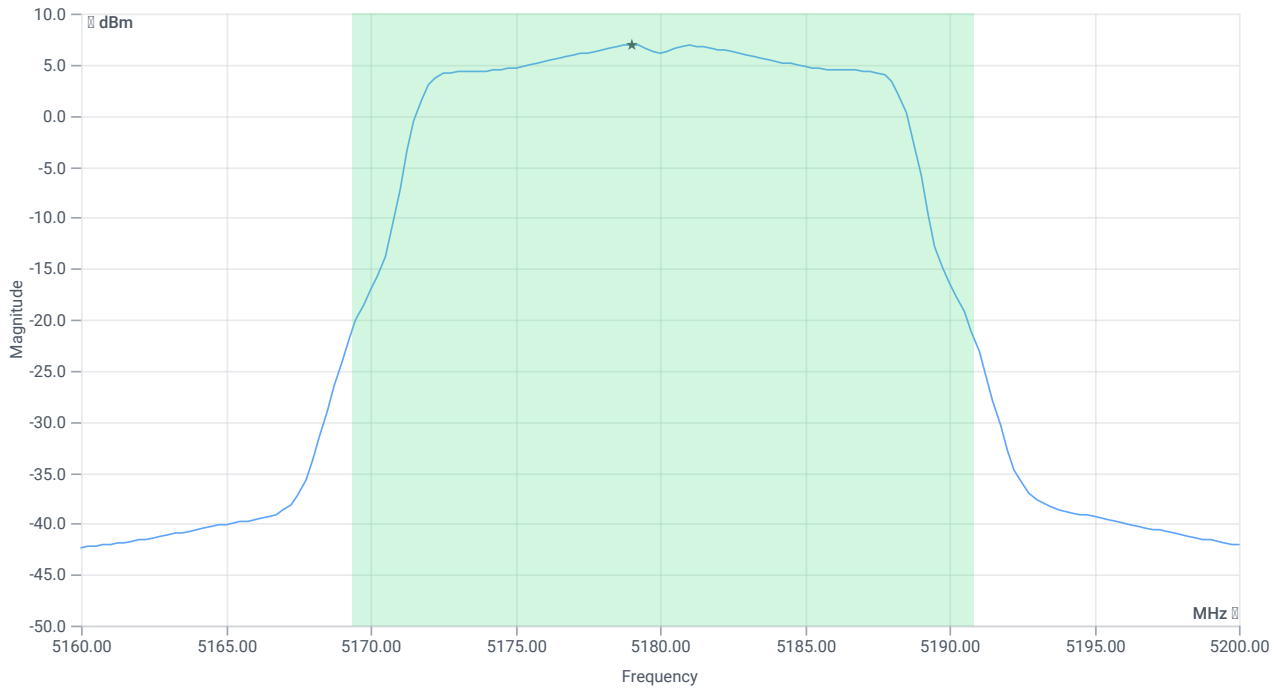
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.44	MHz	INFO
T1 26dB	---	---	5169.4000	MHz	INFO
T2 26dB	---	---	5190.8400	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	26.92   16.39   25
Start [MHz]   Stop [MHz]	5160.000   5200.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	17.41	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	17.41	dBm	PASS
Limit: 11 dBm + 10 log 21.44					
Max Output Power DC corrected	--	24.31	17.41	dBm	na

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	6.93	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	6.93	dBm/1MHz	PASS

### Verdict

PASS



## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:08:43
Ambit temp [°C]   humidity [rel%]	25.5   53
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Information	PS69

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

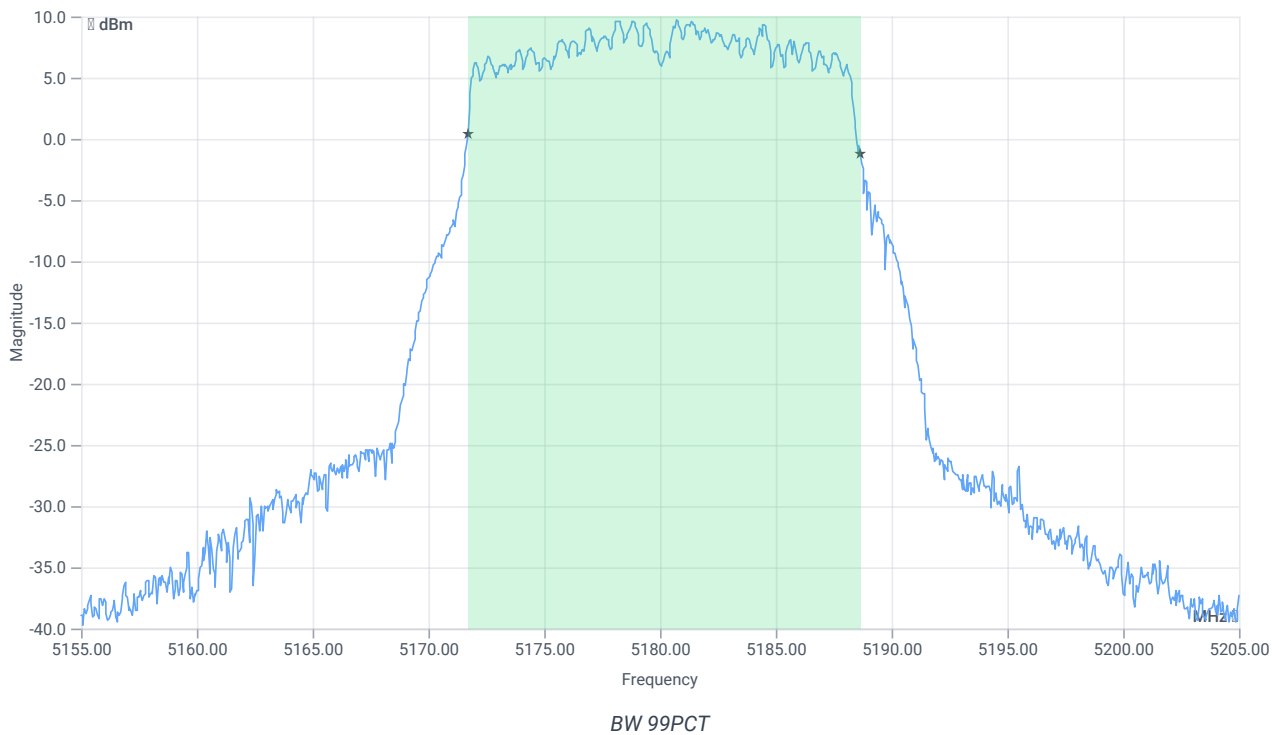
## Test at TX 5180 MHz

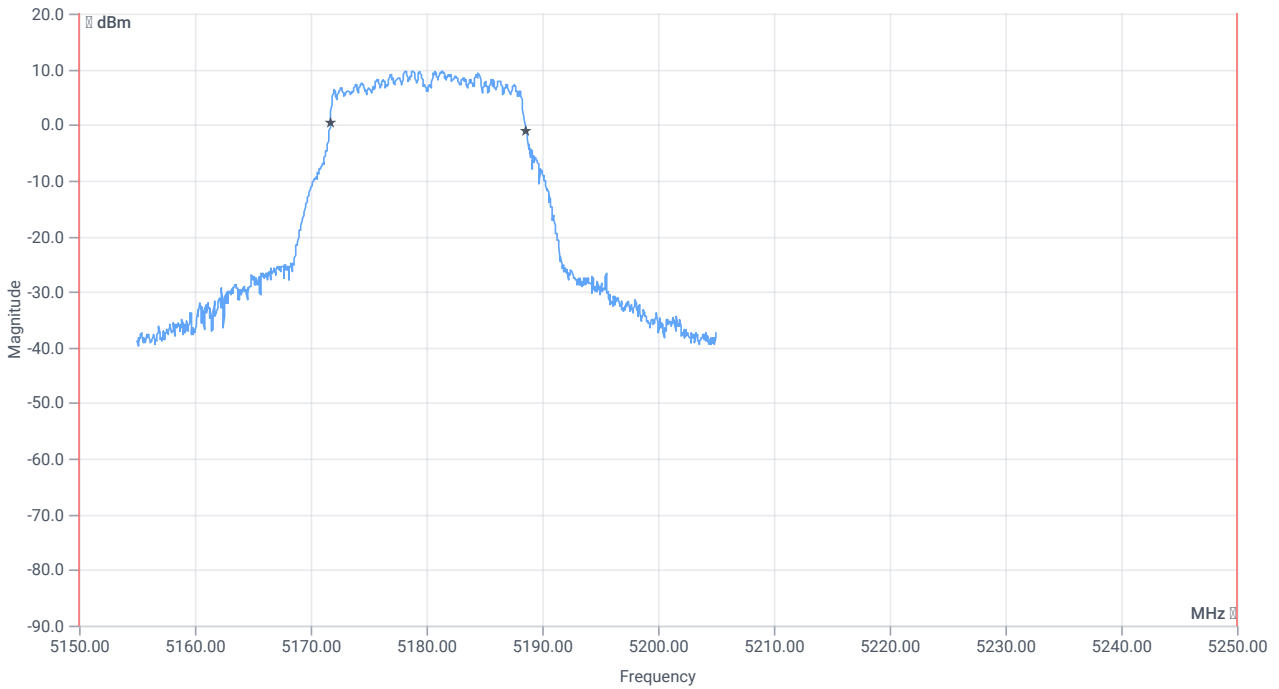
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	14.80	dBm	INFO
Ref. Frequency	--	--	5182.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.80   16.39   25
Start [MHz]   Stop [MHz]	5155.000   5205.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

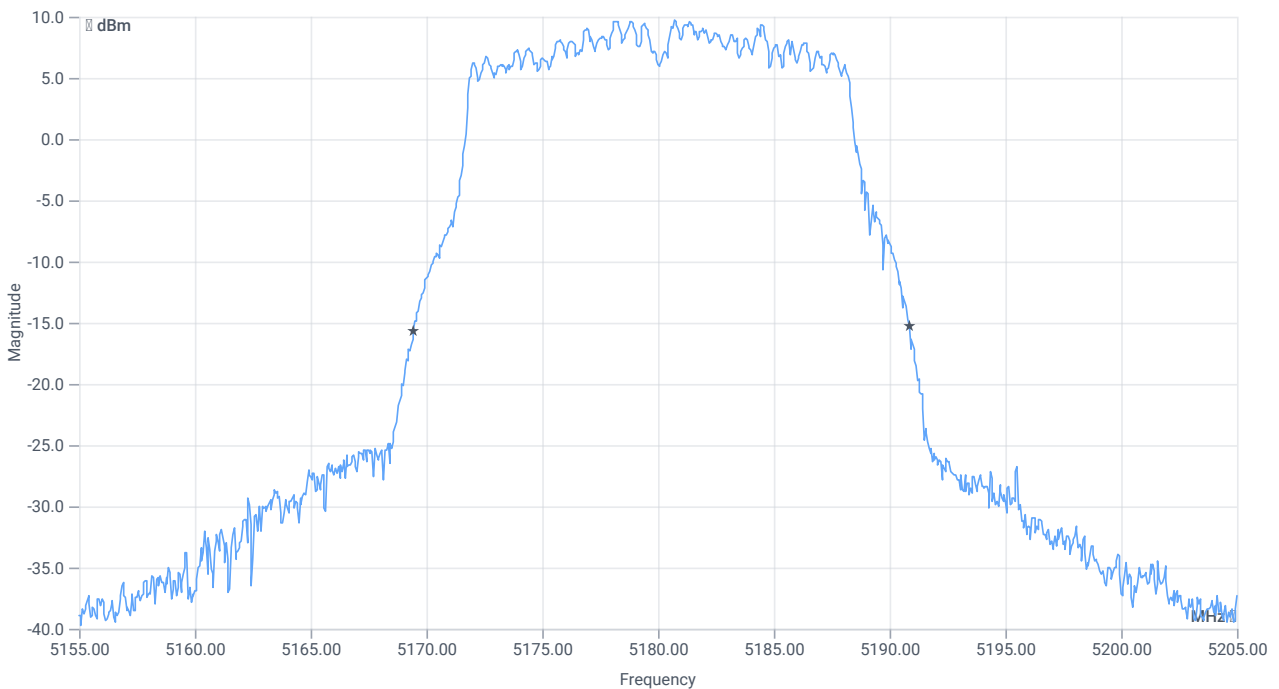




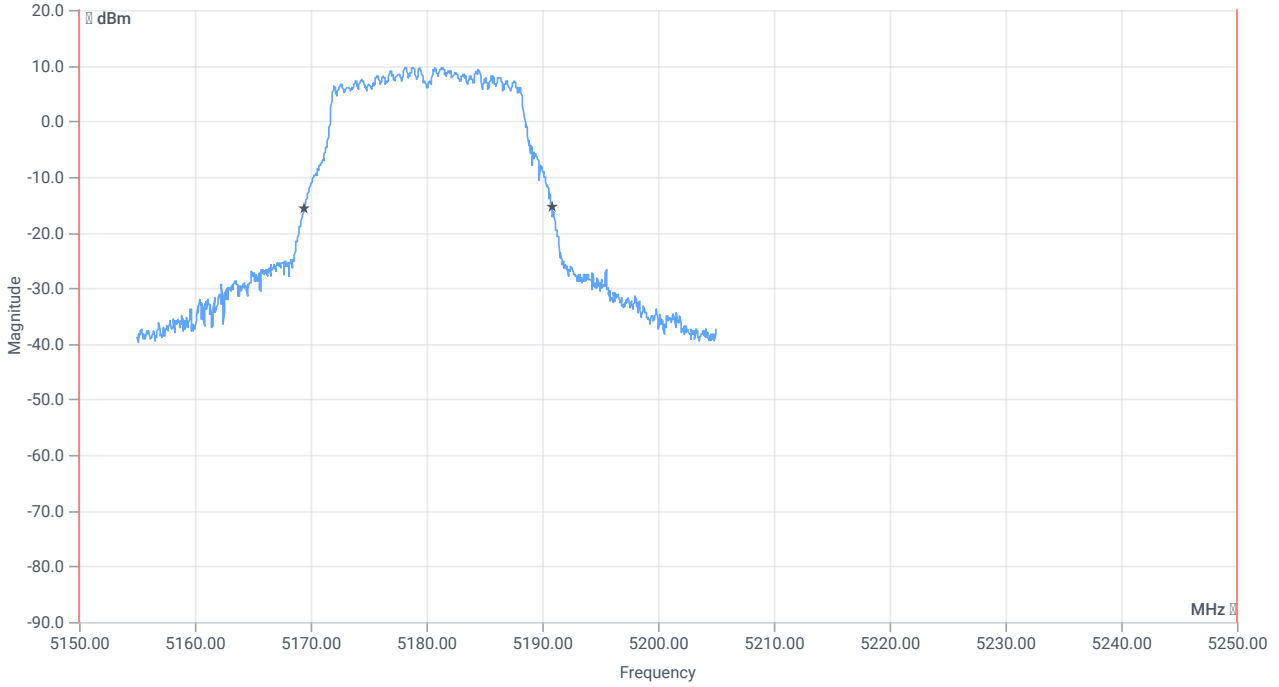
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	16.933	MHz	INFO
T1 99%	5150.000000	--	5171.7083	MHz	PASS
T2 99%	--	5250.000000	5188.6414	MHz	PASS



BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	21.4	MHz	INFO
T1 26dB	5150.000000	--	5169.4500	MHz	PASS
T2 26dB	--	5250.000000	5190.8500	MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:09:20
Ambit temp [°C]   humidity [rel%]	25.4   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-1
Information	PS69

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5180 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	18.48	dBm	INFO
Ant:1 BW 26dB	--	--	21.360	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	17.41	dBm	INFO
Ant:2 BW 26dB	--	--	21.440	MHz	INFO
Σ Limit absolute	--	24	20.99	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.36	--	24.3	20.99	dBm	na

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.98	dBm/1MHz	INFO
Ant:2 PSD	--	--	6.93	dBm/1MHz	INFO
Σ	--	11	10.5	dBm/1MHz	PASS

Verdict

PASS

## # Message with SA scan ~

### References

TC start	24.07.2023 15:23:31
Ambit temp [°C]   humidity [rel%]	25.5   53
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_1
Information	PS82

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 15:23:31
Message	set WLAN5Gx to a_mode_U_NII_1, Frequency [MHz] 5200 ,

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:23:42
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	PS73

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	True   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI



## Test at TX 5200 MHz

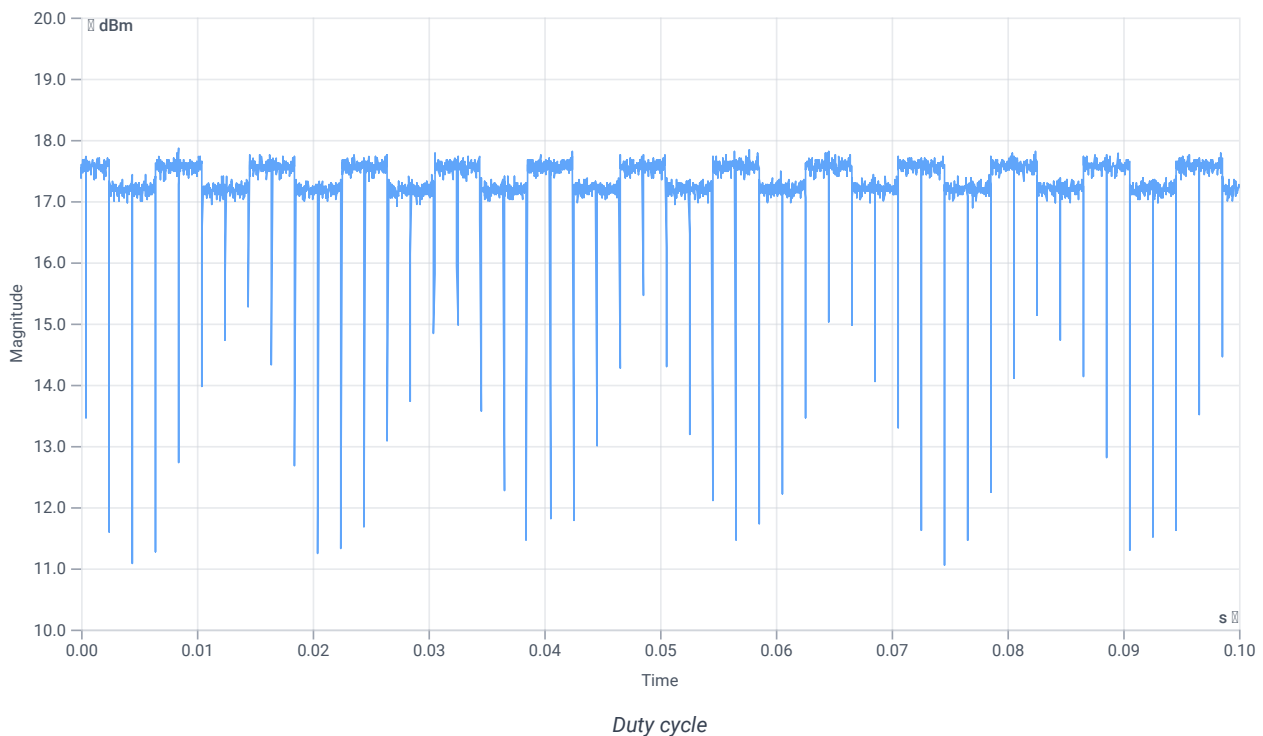
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.70	dBm	INFO
Ref. Frequency	--	--	5205.790	MHz	INFO

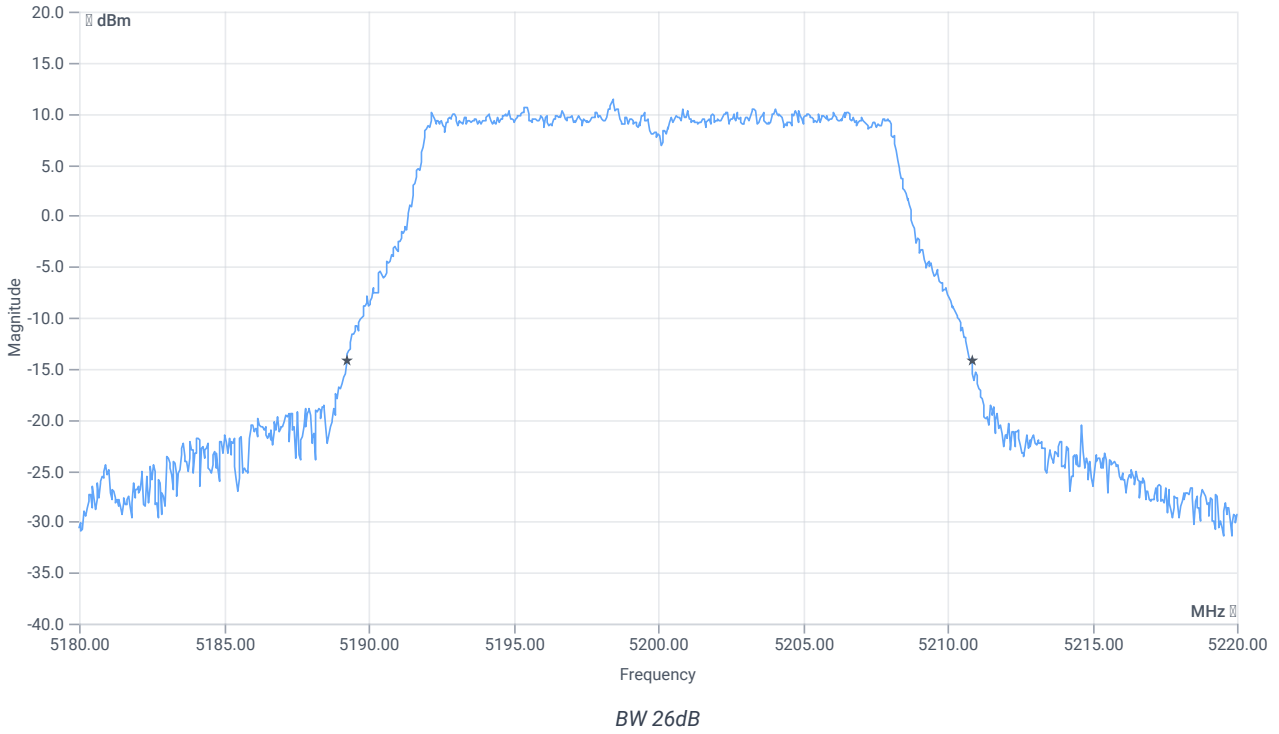
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



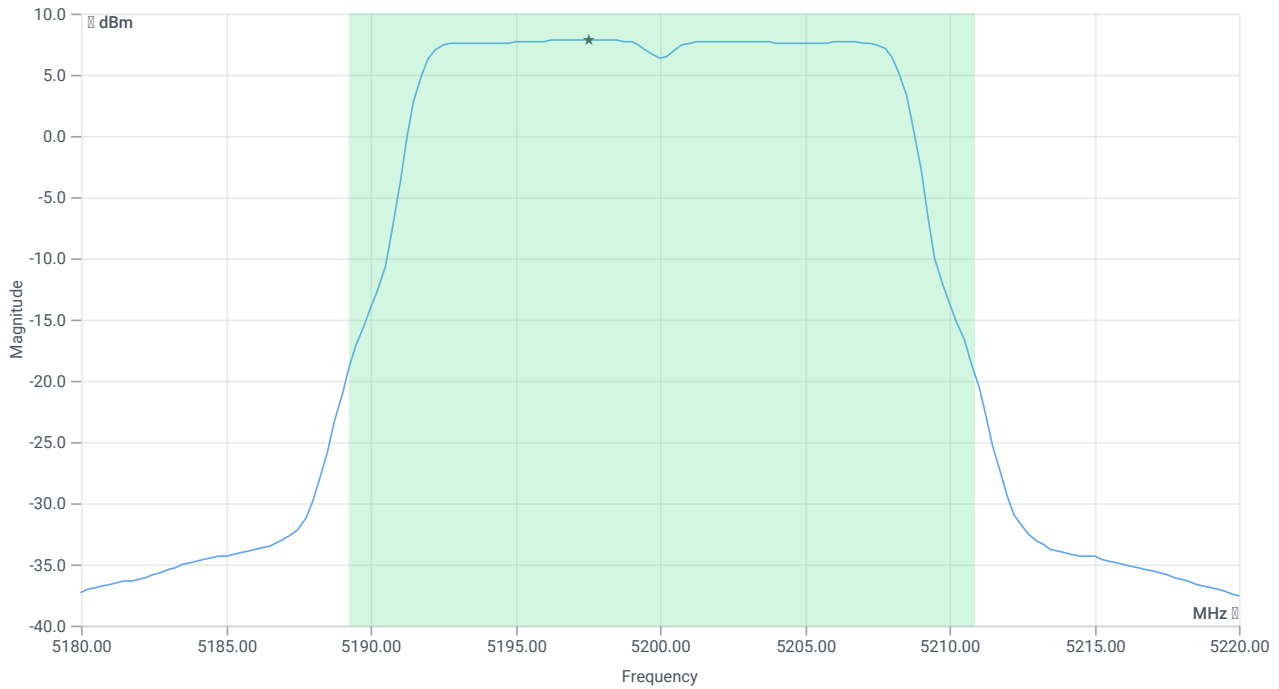
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO
T1 26dB	---	---	5189.2400	MHz	INFO
T2 26dB	---	---	5210.8400	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.70   16.31   30
Start [MHz]   Stop [MHz]	5180.000   5220.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	19.52	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.52	dBm	PASS
Limit: 11 dBm + 10 log 21.6					
Max Output Power DC corrected	--	24.34	19.52	dBm	na

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.84	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.84	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:25:09
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Information	PS73

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	True   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

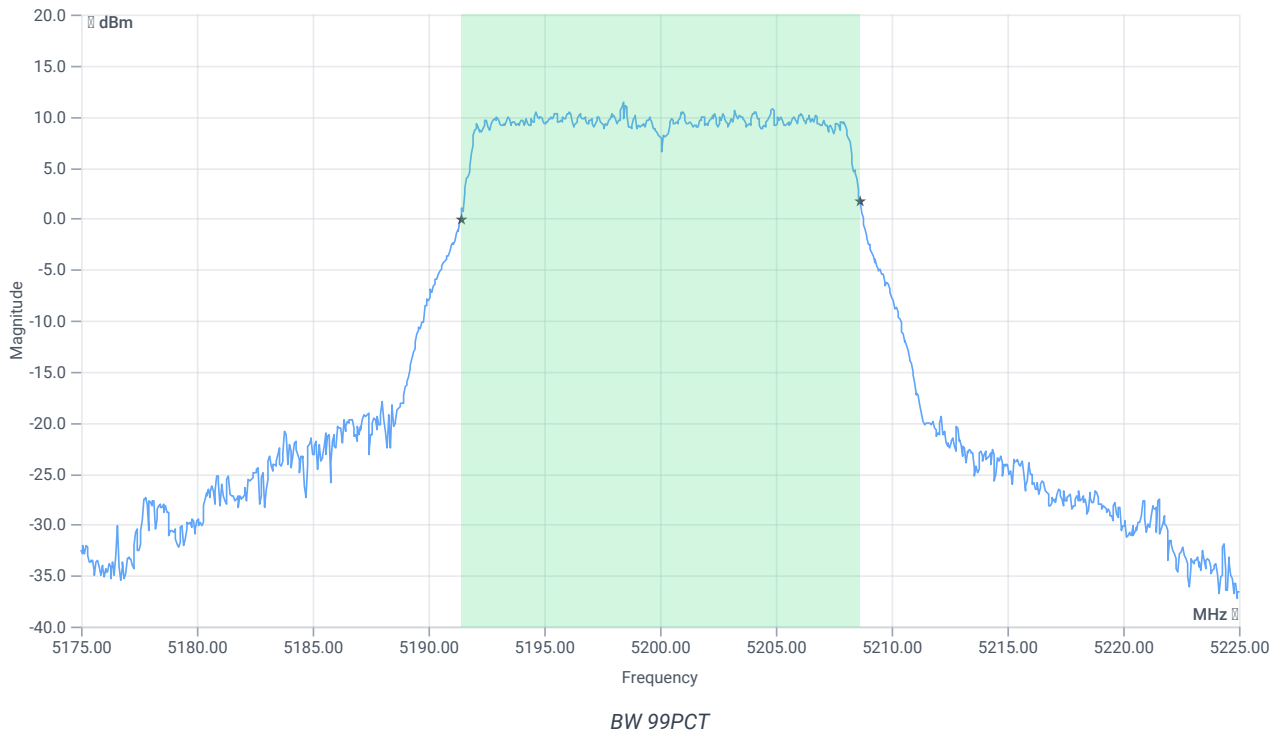
## Test at TX 5200 MHz

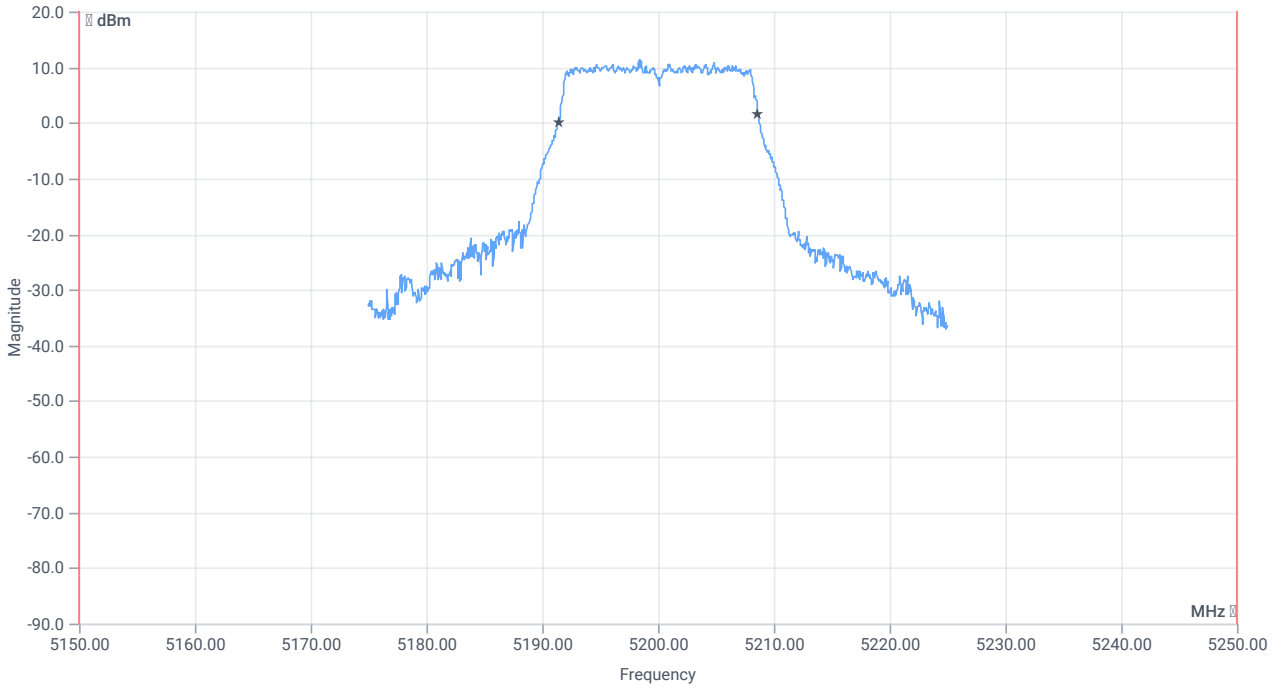
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.52	dBm	INFO
Ref. Frequency	--	--	5207.390	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.52   16.31   25
Start [MHz]   Stop [MHz]	5175.000   5225.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

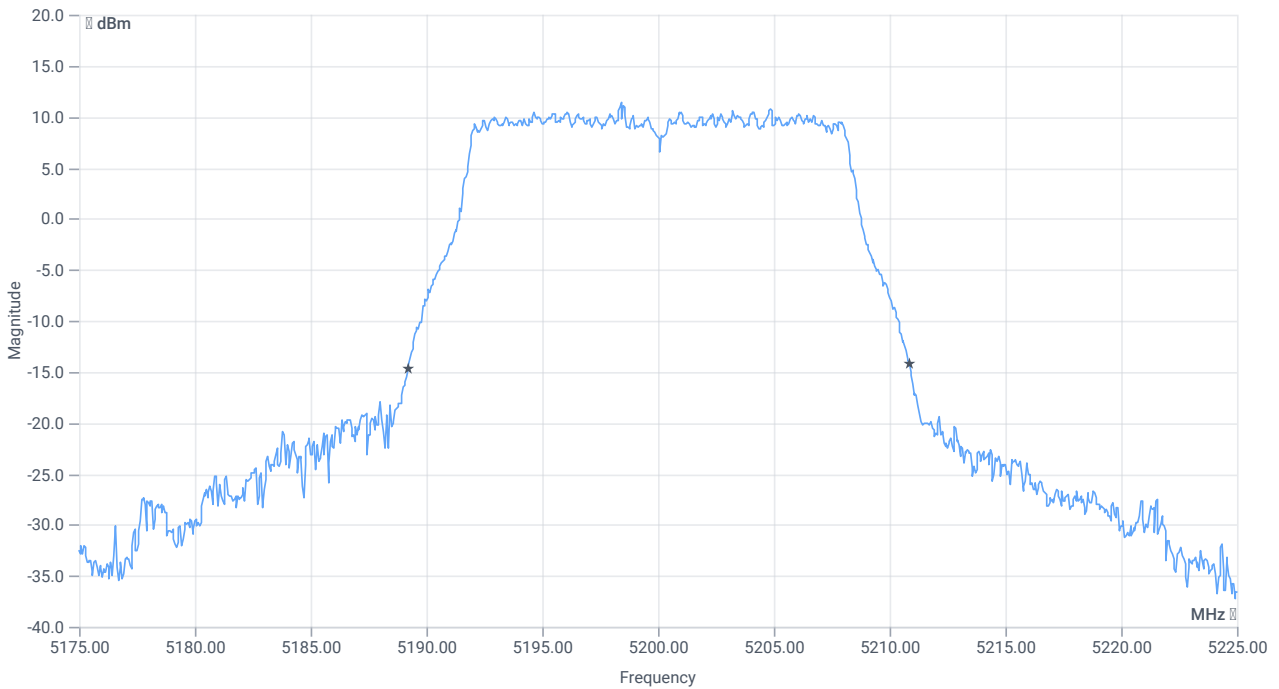




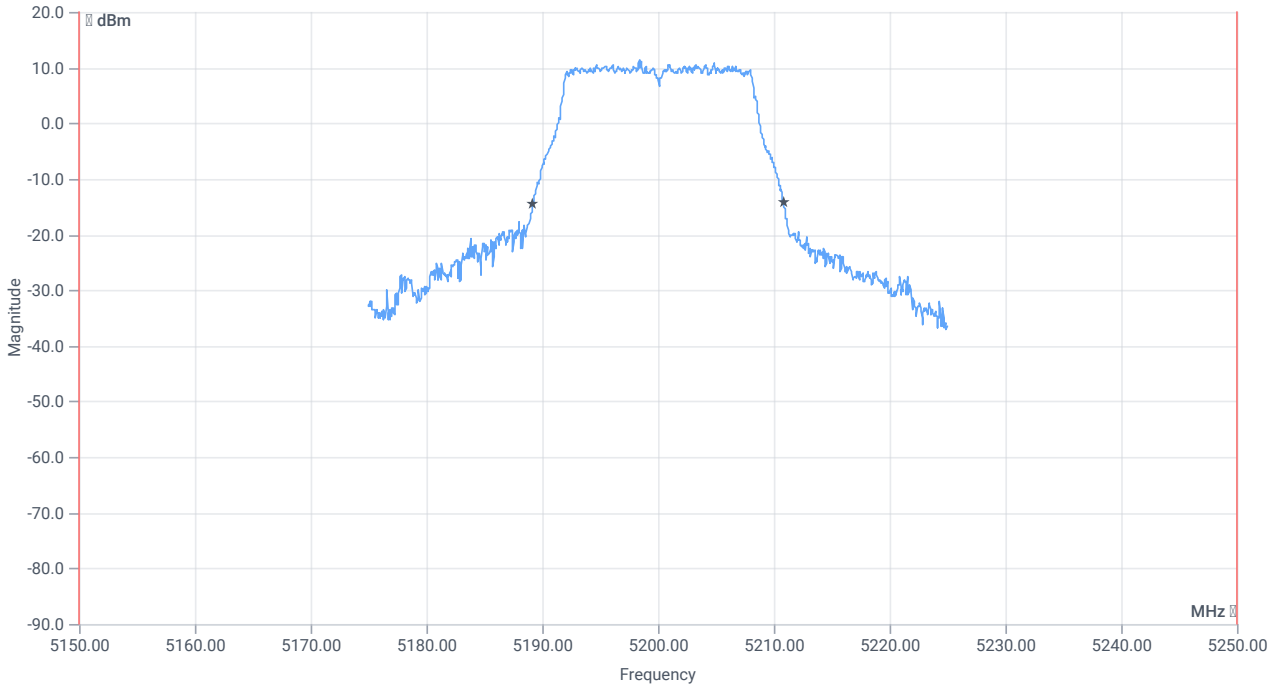
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.233	MHz	INFO
T1 99%	5150.000000	--	5191.4086	MHz	PASS
T2 99%	--	5250.000000	5208.6414	MHz	PASS



BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	21.65	MHz	INFO
T1 26dB	5150.000000	--	5189.2000	MHz	PASS
T2 26dB	--	5250.000000	5210.8500	MHz	PASS

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:25:46
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	PS73

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	True   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI



### Test at TX 5200 MHz

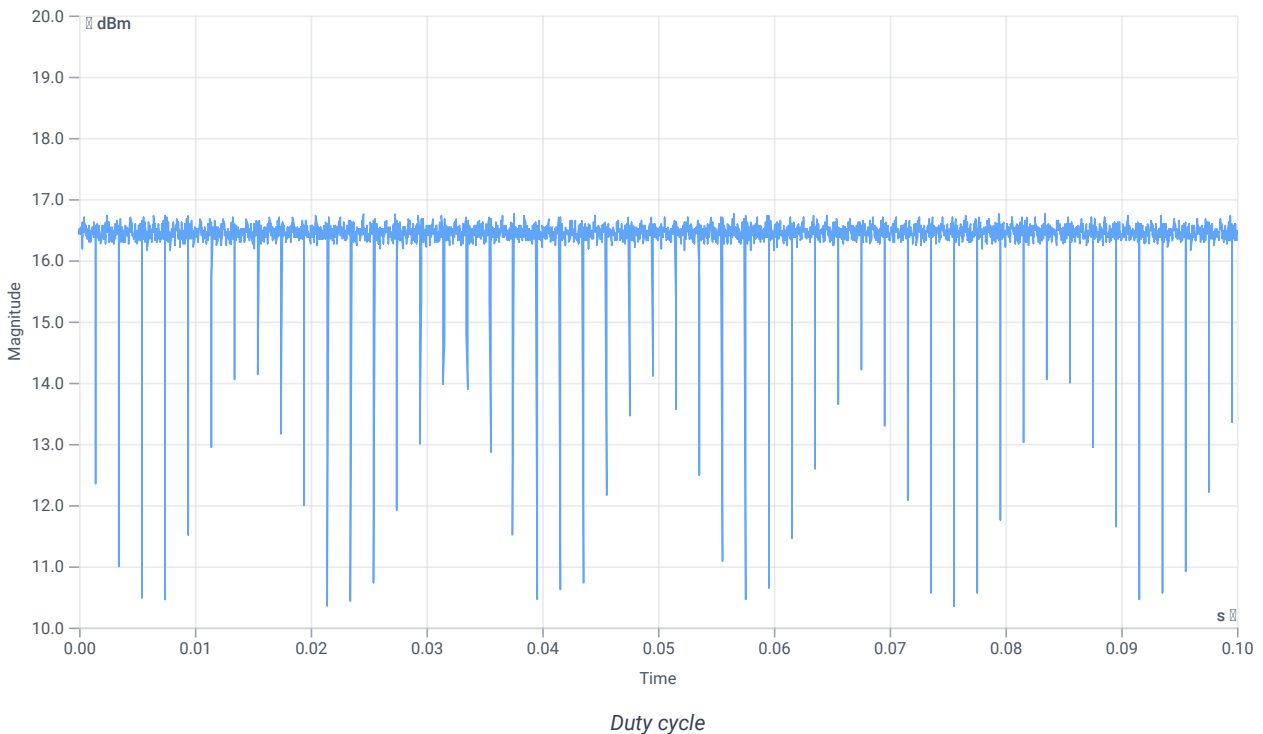
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.90	dBm	INFO
Ref. Frequency	--	--	5198.400	MHz	INFO

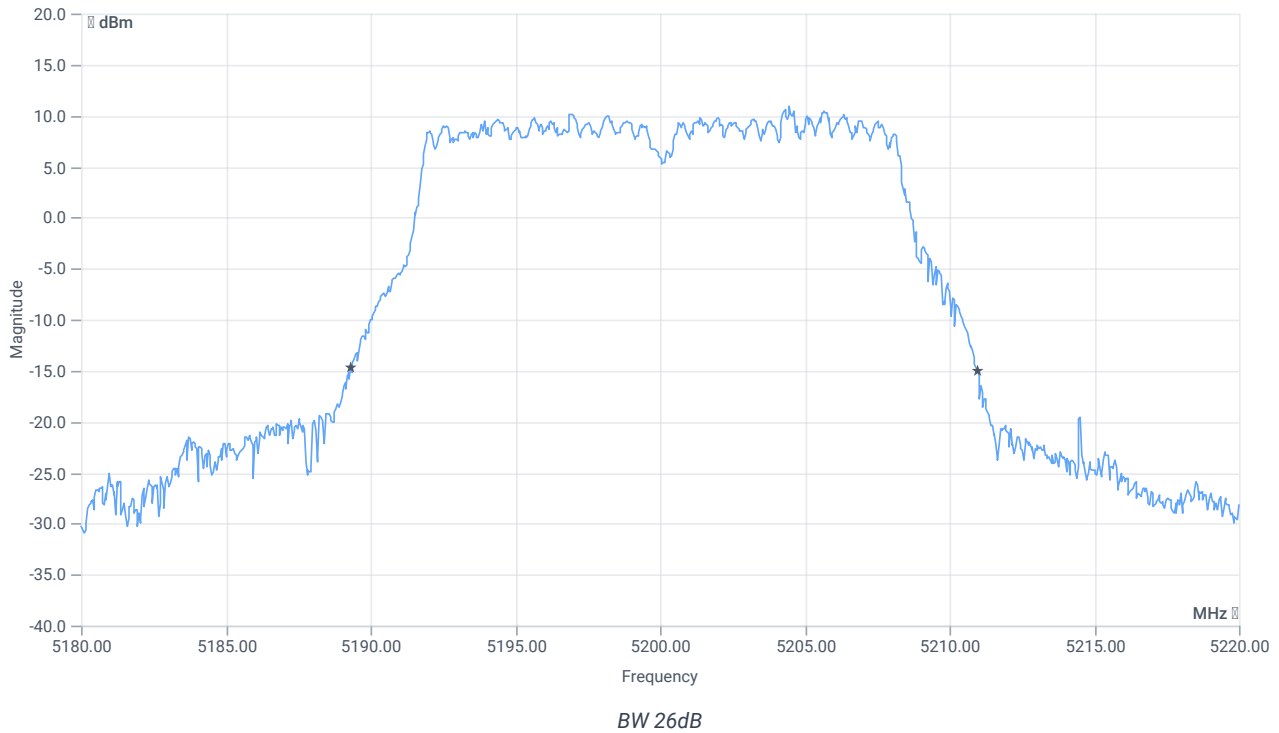
### Evaluation max. Duty Cycle

#### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



### Evaluation Bandwidth



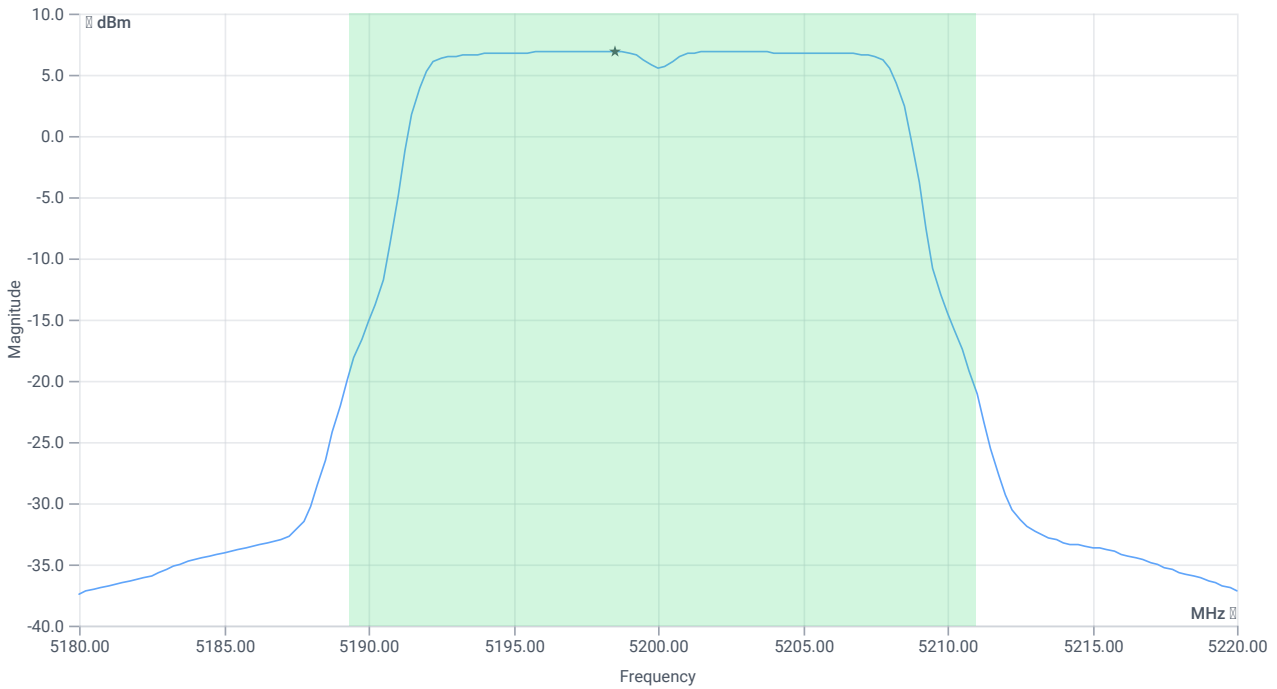
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.64	MHz	INFO
T1 26dB	---	---	5189.3200	MHz	INFO
T2 26dB	---	---	5210.9600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.90   16.31   30
Start [MHz]   Stop [MHz]	5180.000   5220.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.62	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.62	dBm	PASS
Limit: 11 dBm + 10 log 21.64					
Max Output Power DC corrected	--	24.35	18.62	dBm	na

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	6.9	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	6.9	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:27:14
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Information	PS73

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	True   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

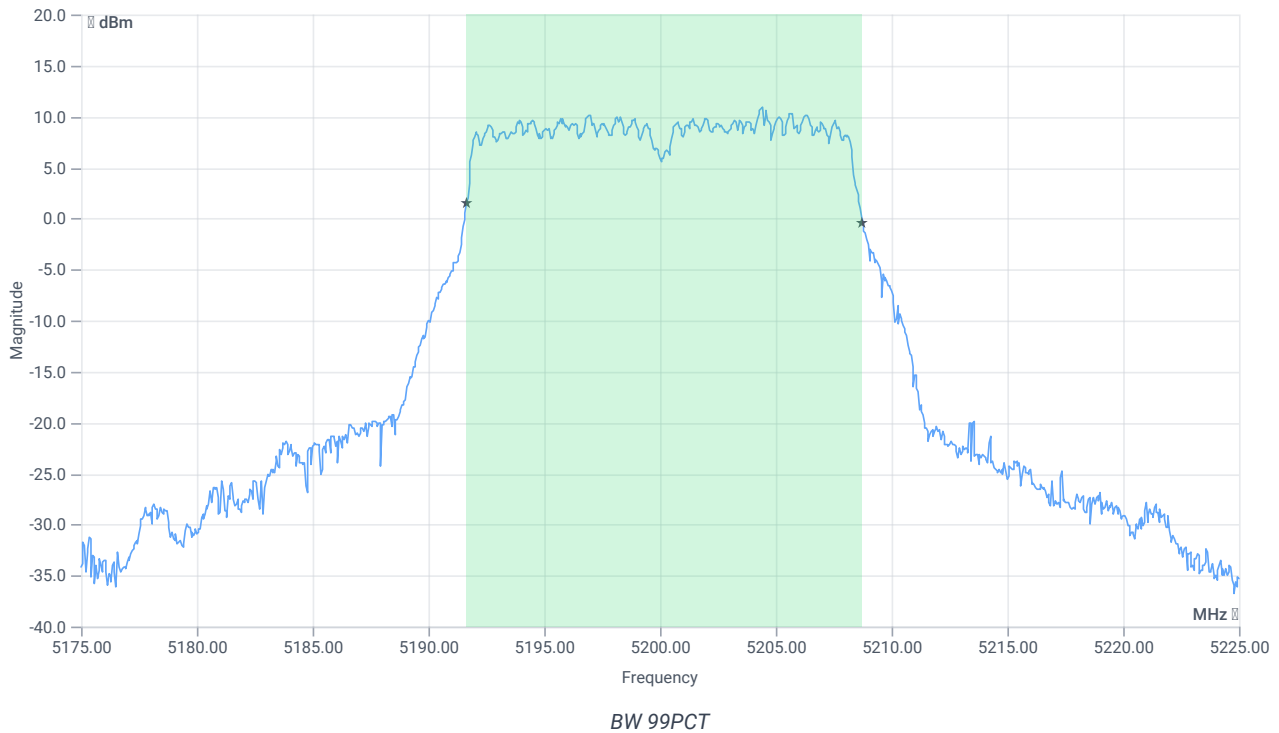
## Test at TX 5200 MHz

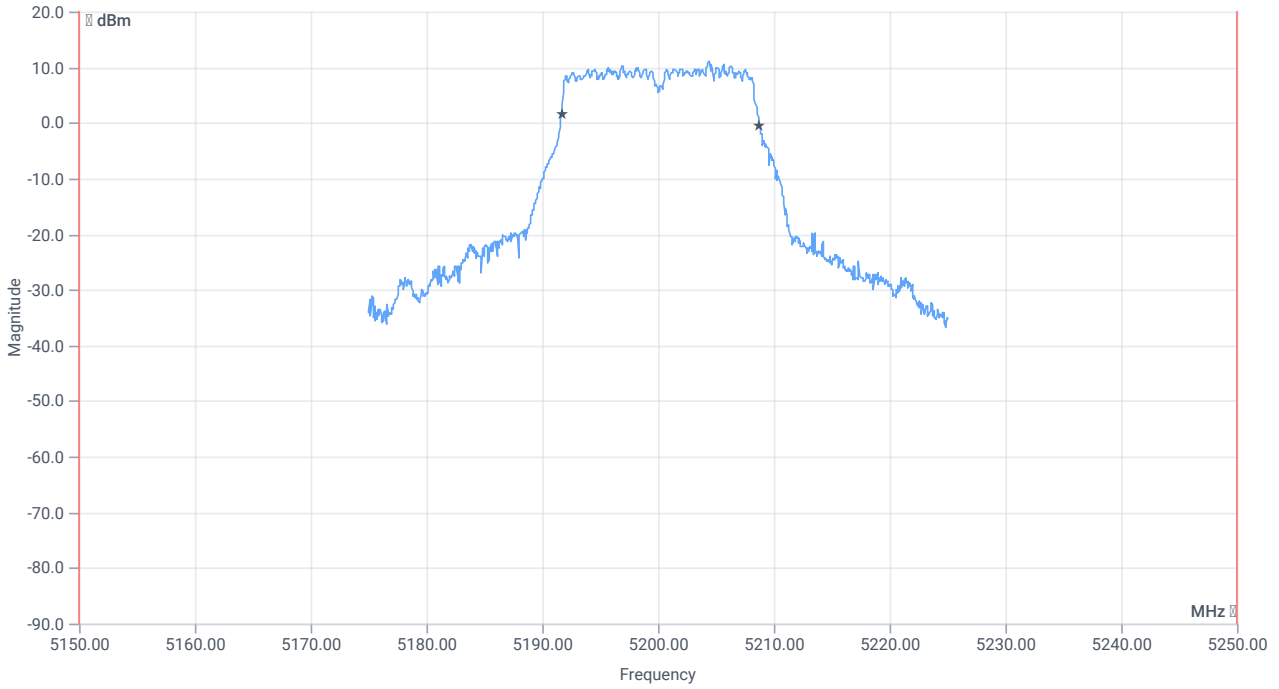
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.75	dBm	INFO
Ref. Frequency	--	--	5204.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.75   16.31   25
Start [MHz]   Stop [MHz]	5175.000   5225.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

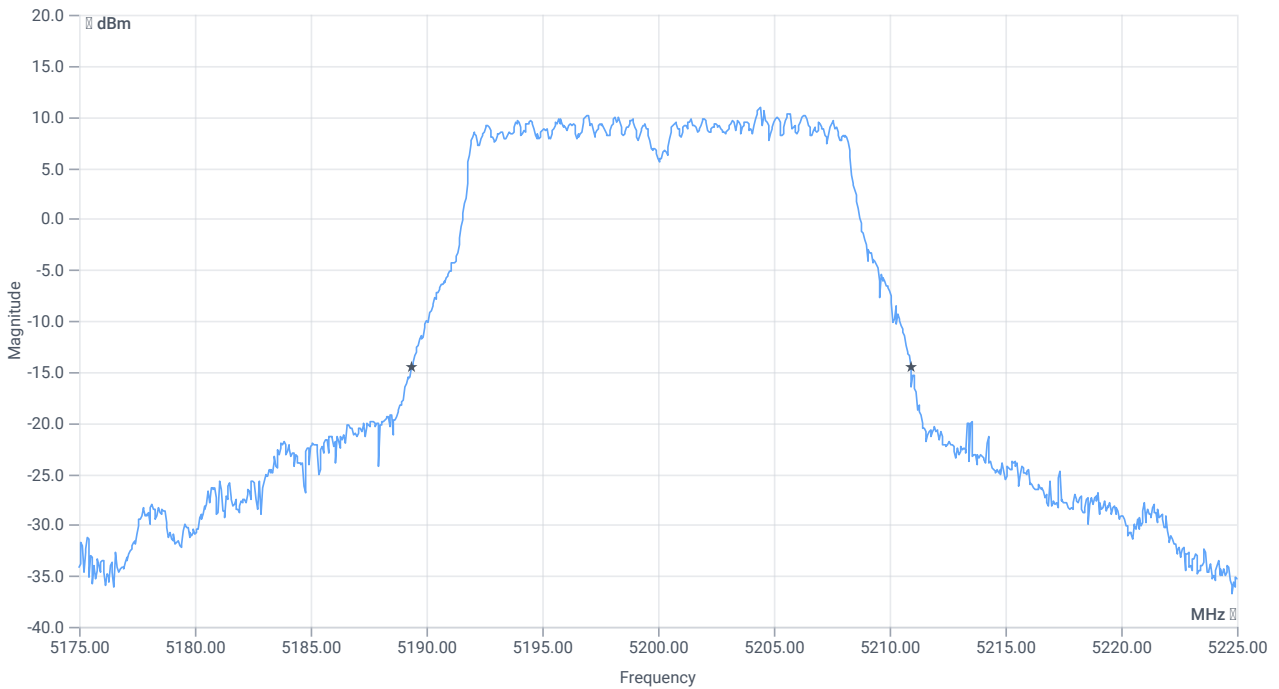




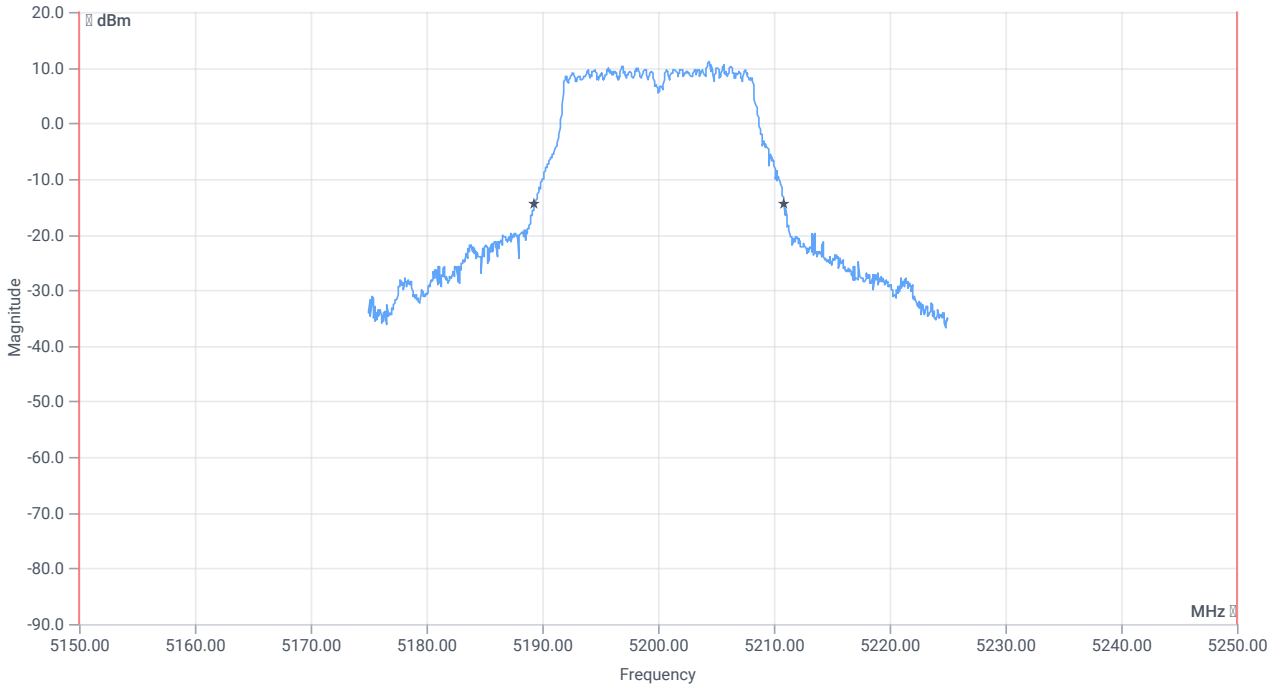
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.083	MHz	INFO
T1 99%	5150.000000	--	5191.6583	MHz	PASS
T2 99%	--	5250.000000	5208.7413	MHz	PASS



BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	21.55	MHz	INFO
T1 26dB	5150.000000	--	5189.3500	MHz	PASS
T2 26dB	--	5250.000000	5210.9000	MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:27:51
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-1
Information	PS73

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	True   Freq [MHz] 5200
Frequency high to test	False   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment



## Test at TX 5200 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	19.52	dBm	INFO
Ant:1 BW 26dB	--	--	21.600	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	18.62	dBm	INFO
Ant:2 BW 26dB	--	--	21.640	MHz	INFO
Σ Limit absolute	--	24	22.1	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.6	--	24.34	22.1	dBm	na

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.84	dBm/1MHz	INFO
Ant:2 PSD	--	--	6.9	dBm/1MHz	INFO
Σ	--	11	10.41	dBm/1MHz	PASS

### Verdict

PASS

## # Message with SA scan ~

### References

TC start	24.07.2023 15:29:19
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_1
Information	PS71

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 15:29:20
Message	set WLAN5Gx to a_mode_U_NII_1, Frequency [MHz] 5240

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:29:34
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	True   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5240 MHz

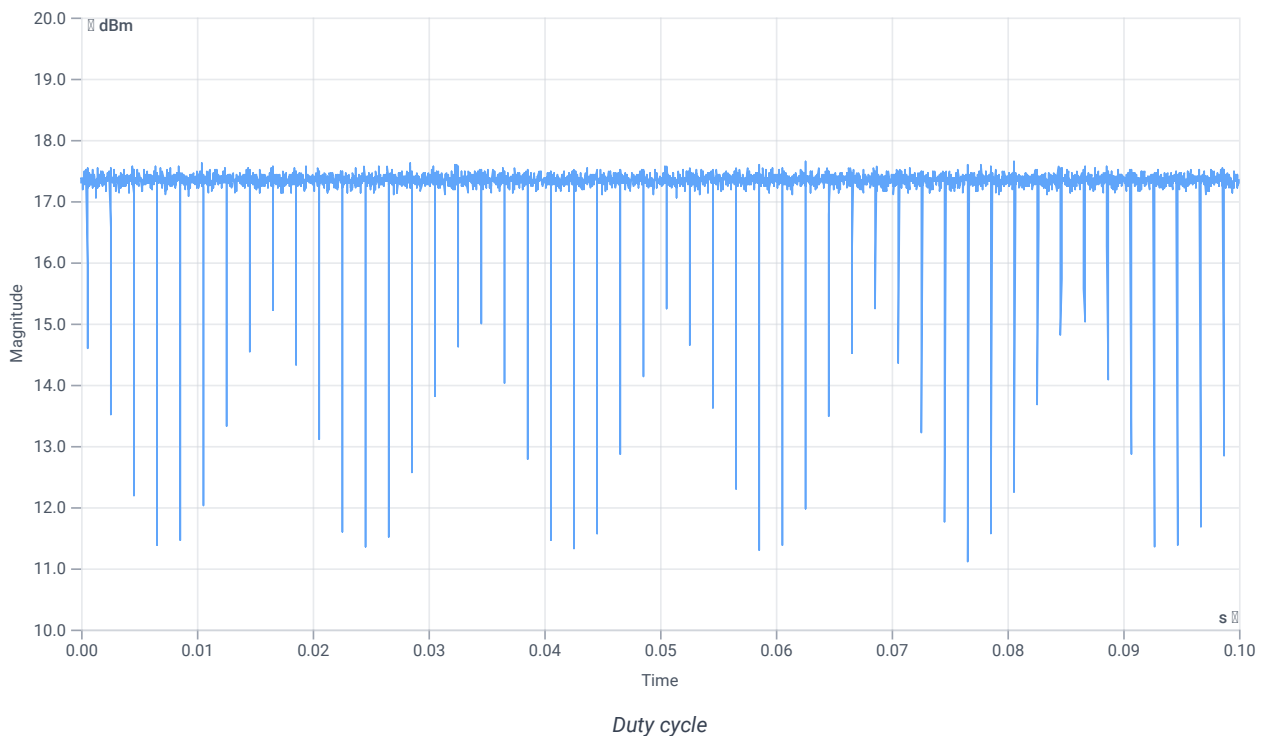
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.98	dBm	INFO
Ref. Frequency	--	--	5242.000	MHz	INFO

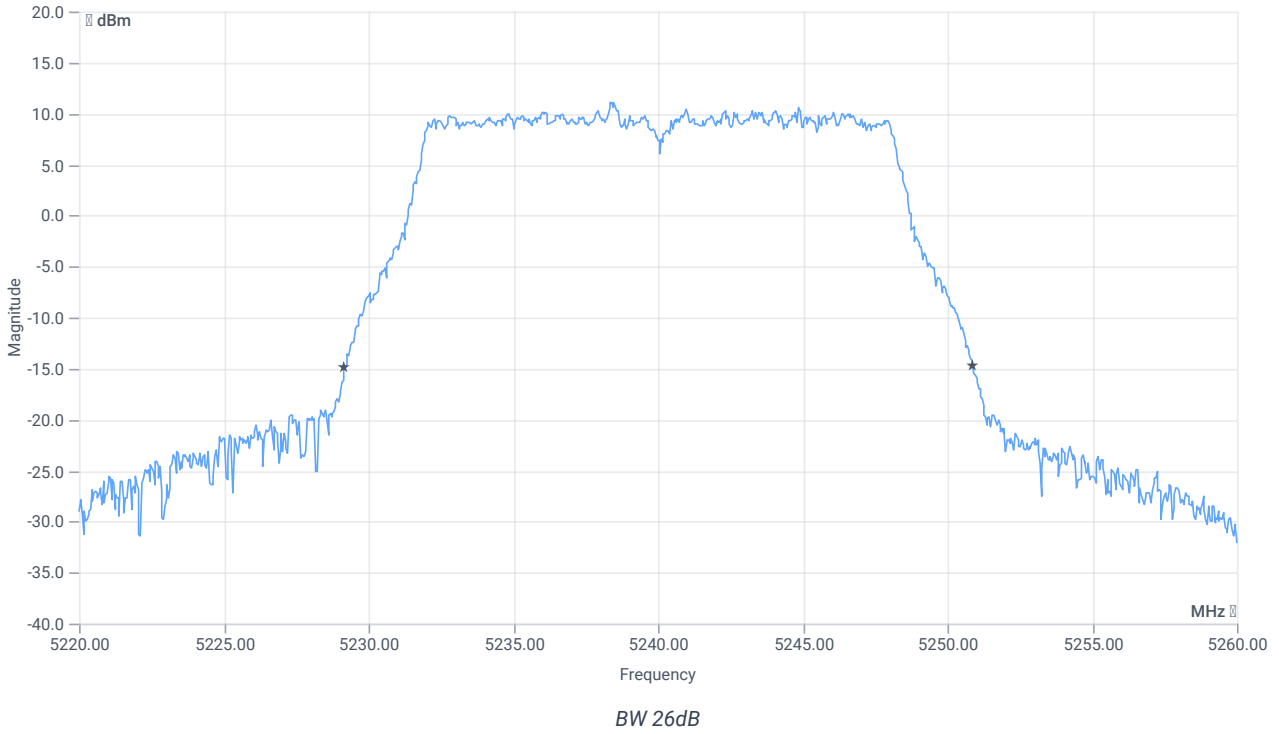
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



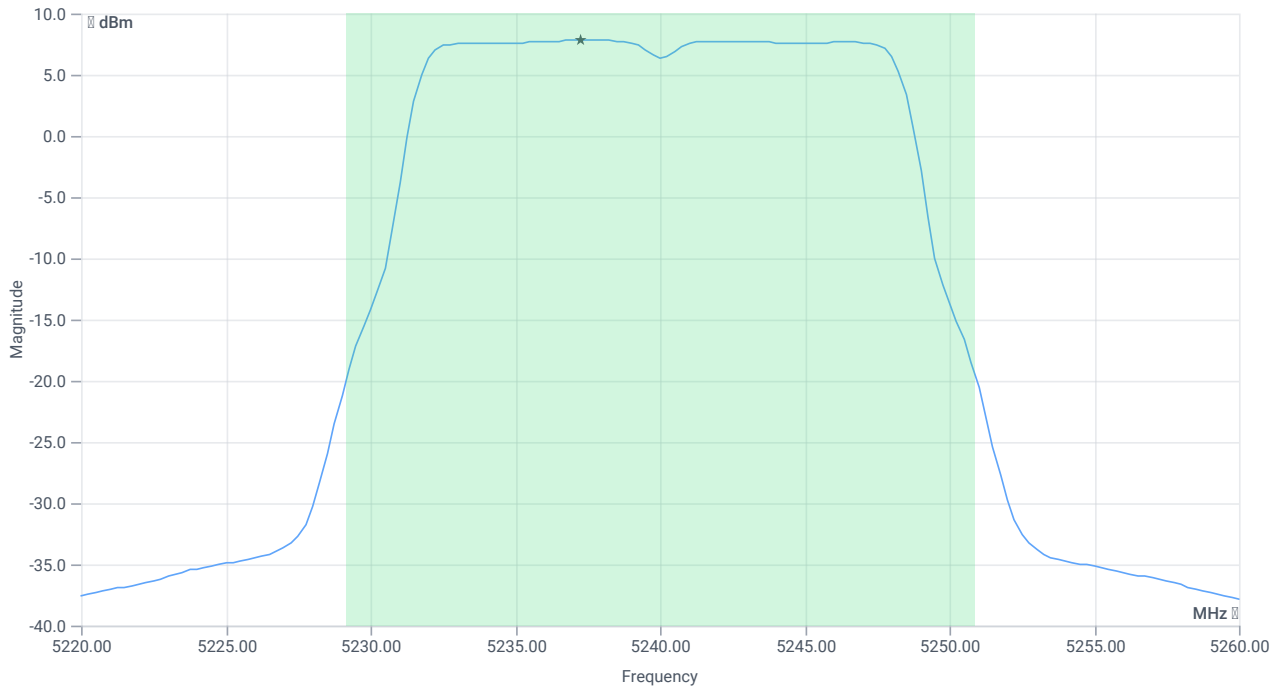
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.72	MHz	INFO
T1 26dB	---	---	5229.1600	MHz	INFO
T2 26dB	---	---	5250.8800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.98   16.37   30
Start [MHz]   Stop [MHz]	5220.000   5260.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	19.5	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.5	dBm	PASS
Limit: 11 dBm + 10 log 21.72					
Max Output Power DC corrected	--	24.37	19.5	dBm	na

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.81	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.81	dBm/1MHz	PASS

### Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1

## References

TC start	24.07.2023 15:31:24
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Information	PS74

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	True   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

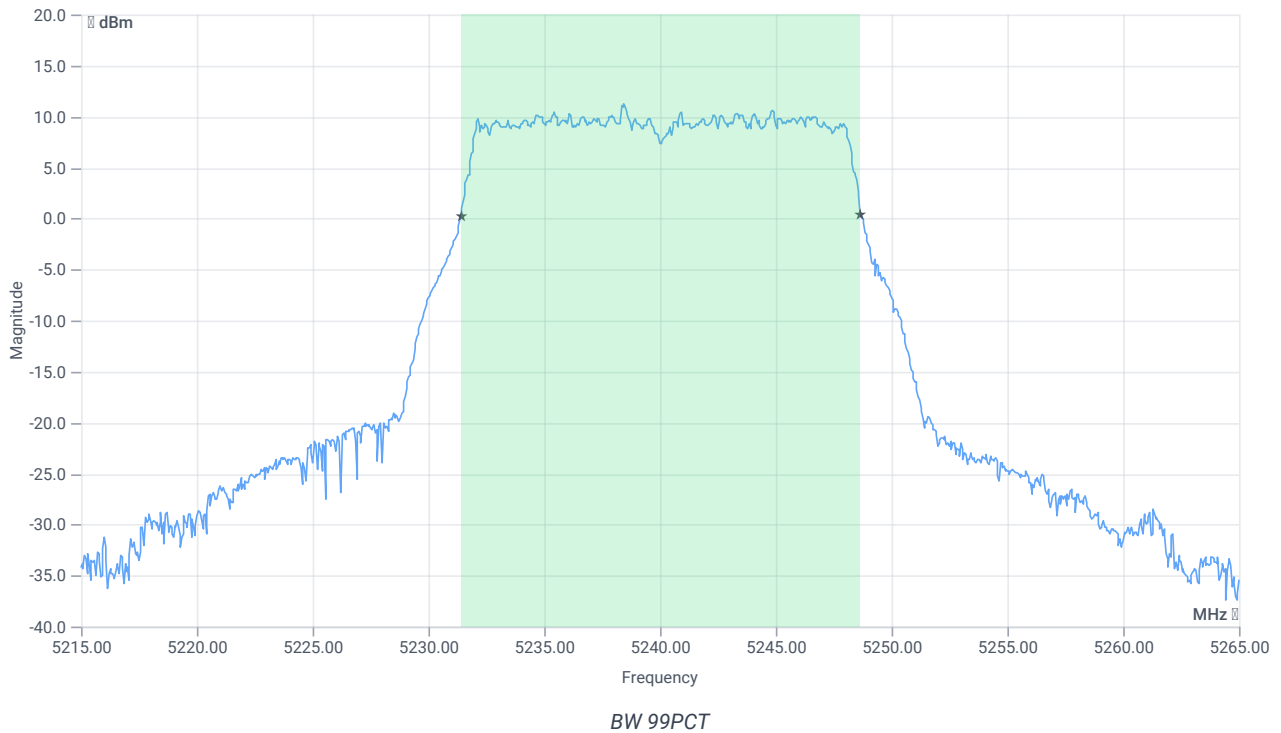
## Test at TX 5240 MHz

RESULT: Reference Power cond.

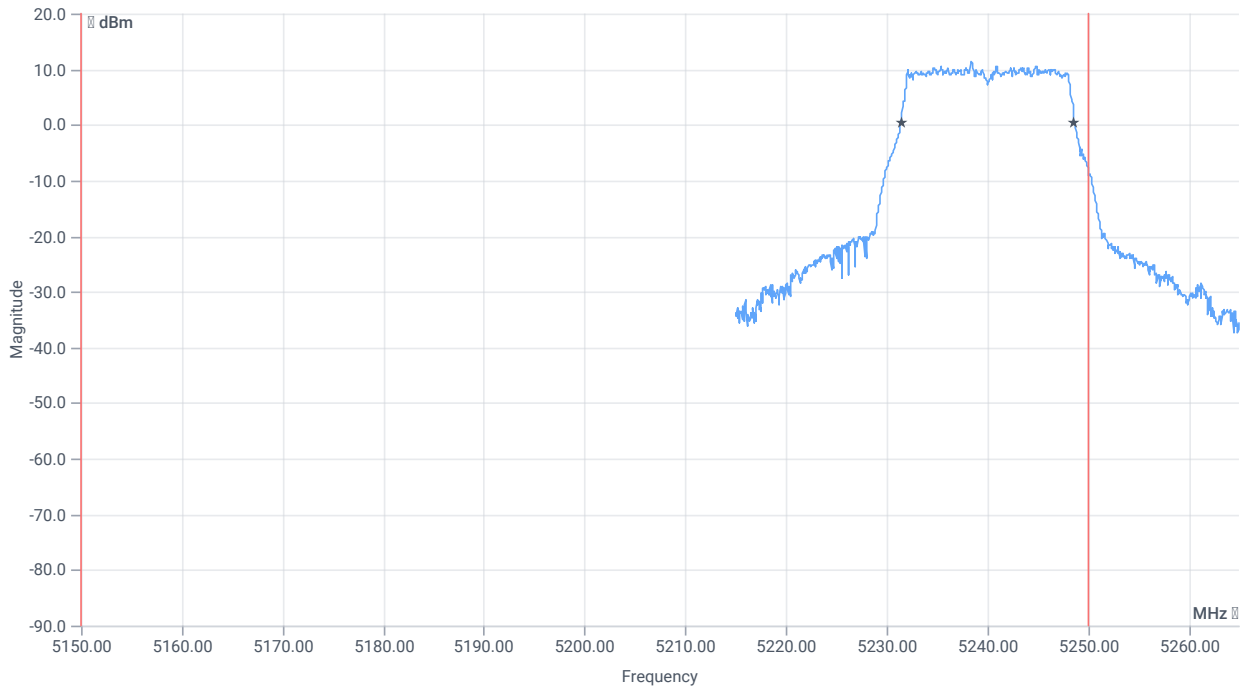
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.04	dBm	INFO
Ref. Frequency	--	--	5238.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.04   16.37   25
Start [MHz]   Stop [MHz]	5215.000   5265.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE



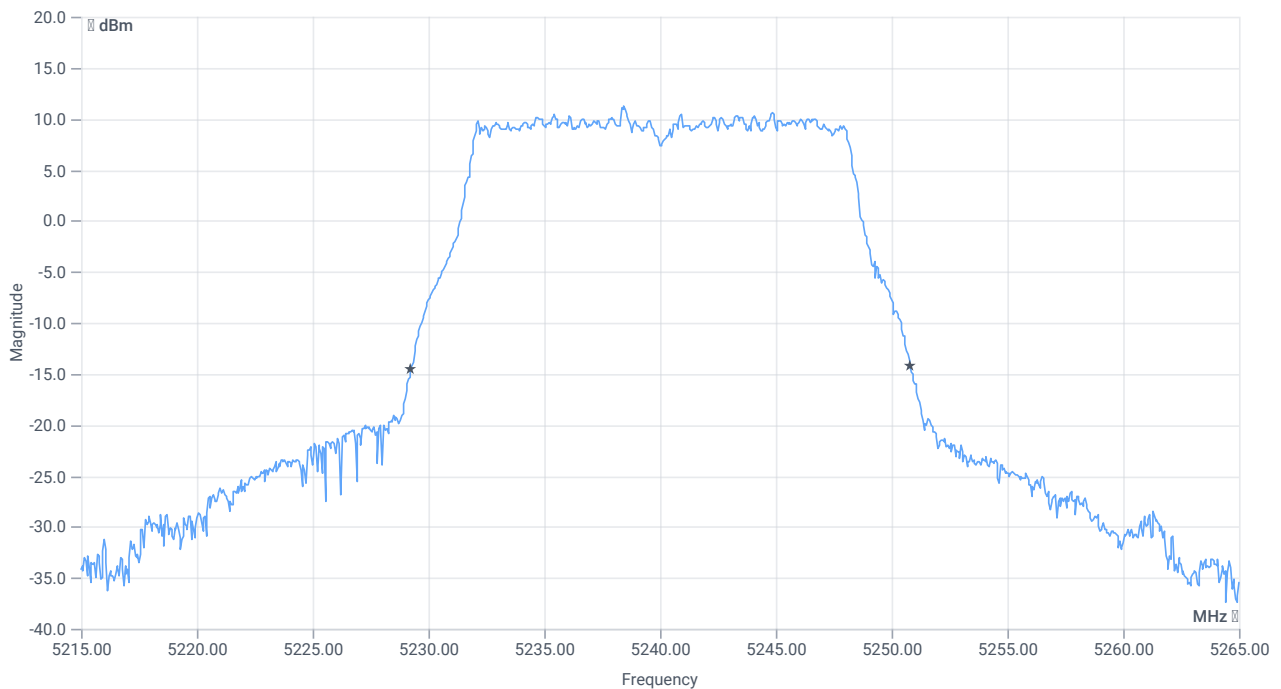




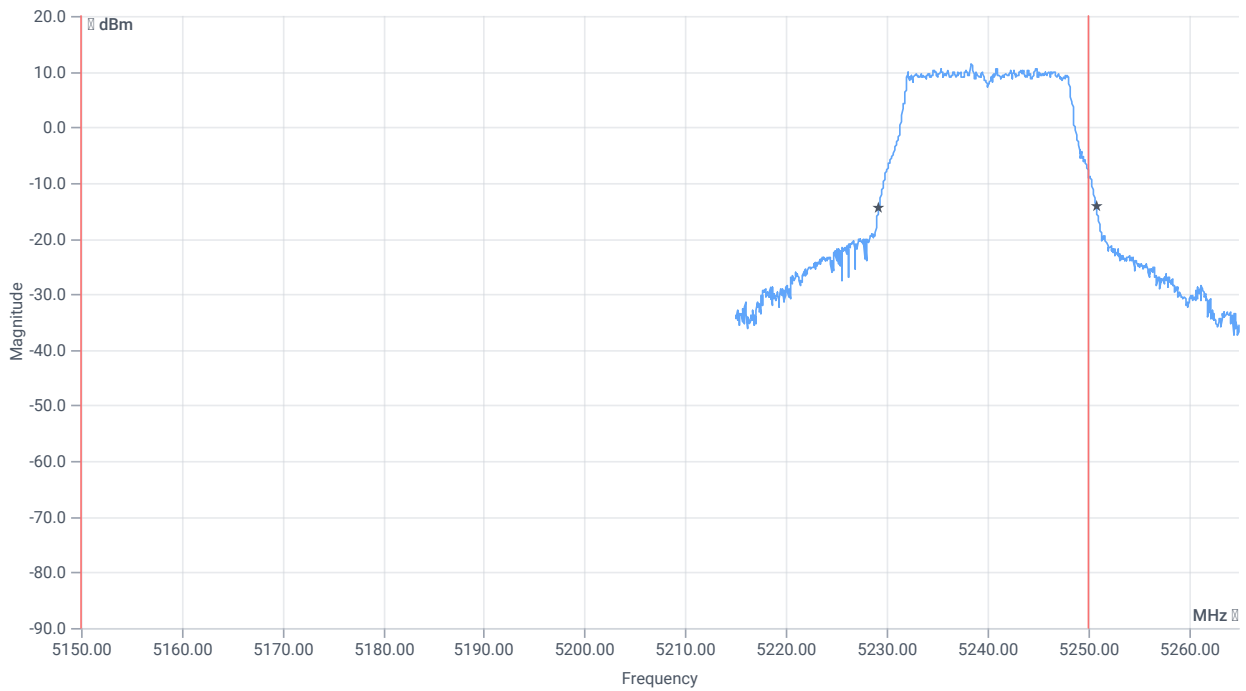
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.233	MHz	INFO
T1 99%	5150.000000	--	5231.4086	MHz	PASS
T2 99%	--	5250.000000	5248.6414	MHz	PASS



BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	21.55	MHz	INFO
T1 26dB	5150.000000	--	5229.2500	MHz	PASS
T2 26dB	--	5250.000000	5250.8000	MHz	DFS required

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:31:54
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	True   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5240 MHz

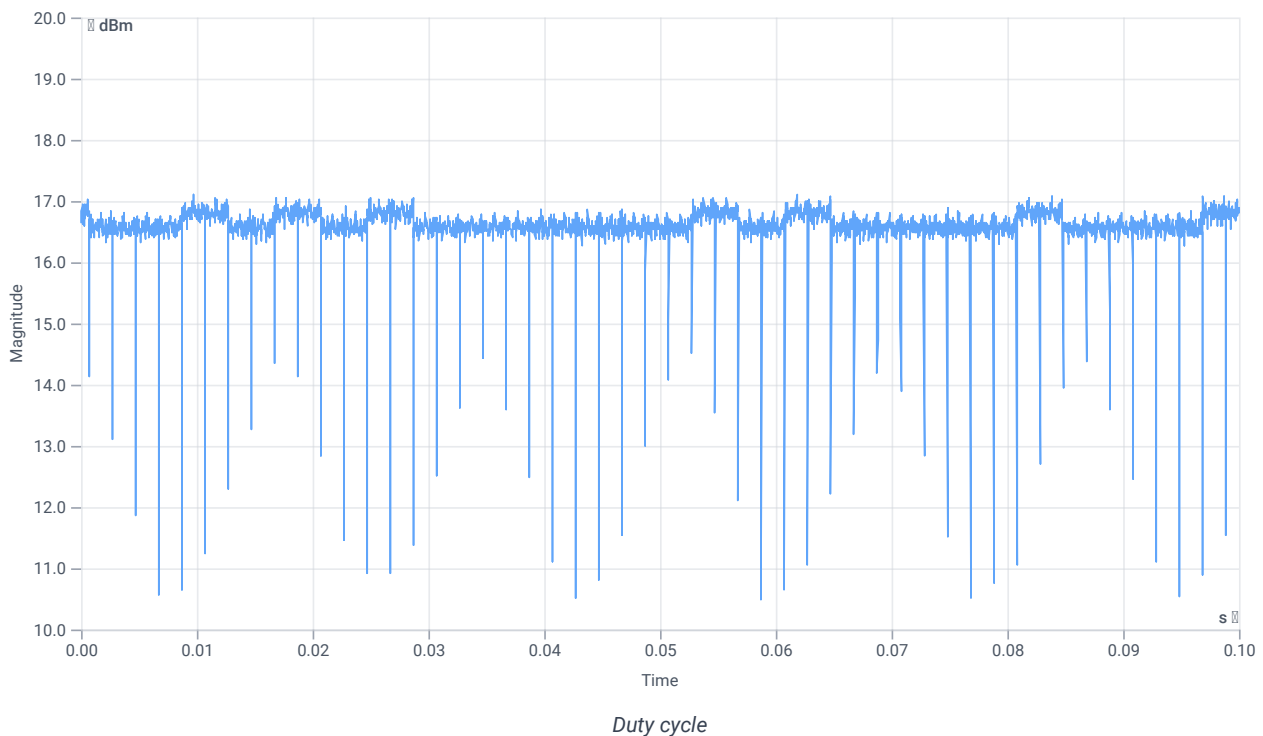
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.72	dBm	INFO
Ref. Frequency	--	--	5237.800	MHz	INFO

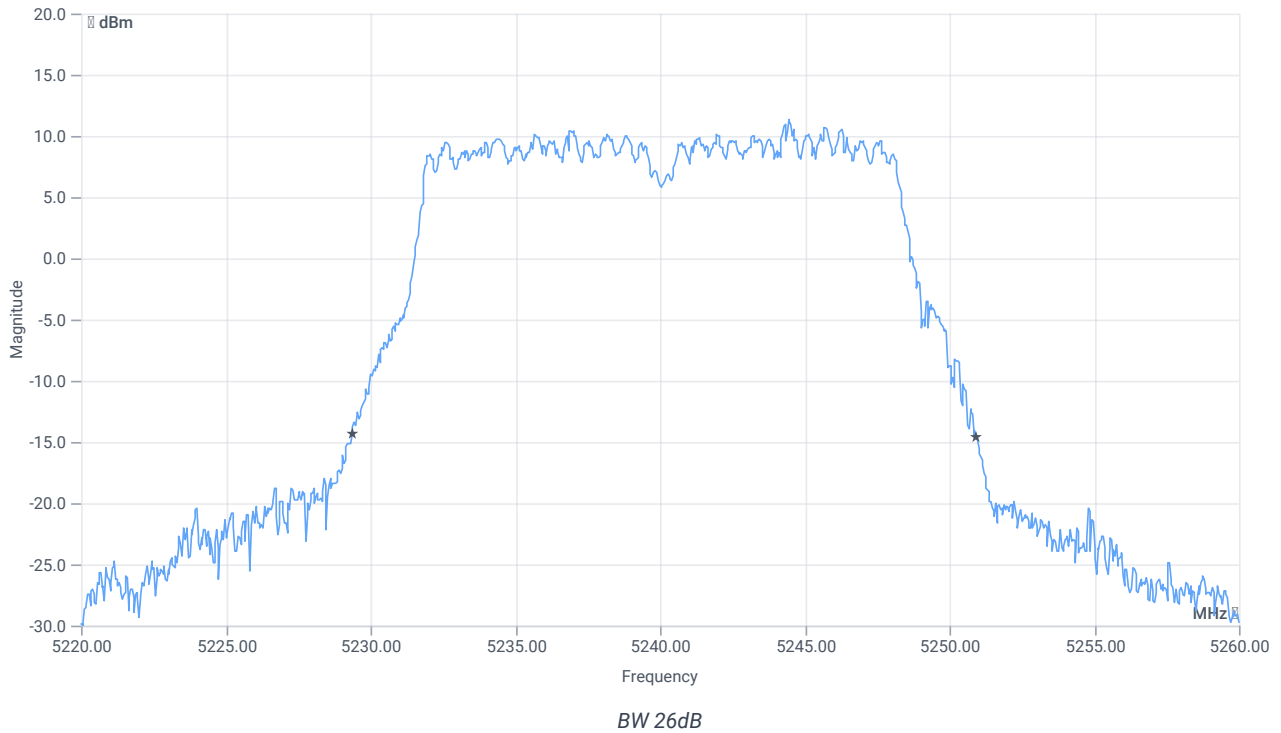
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



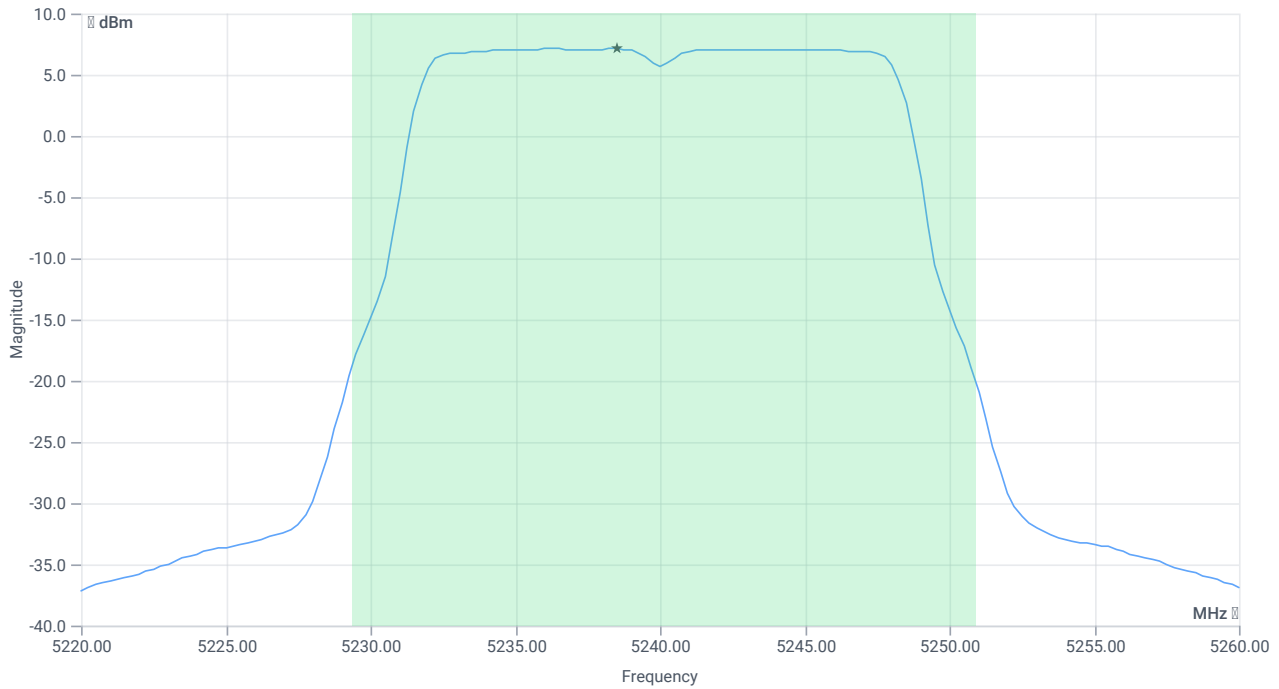
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.56	MHz	INFO
T1 26dB	---	---	5229.3600	MHz	INFO
T2 26dB	---	---	5250.9200	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.72   16.37   30
Start [MHz]   Stop [MHz]	5220.000   5260.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.85	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.85	dBm	PASS
Limit: 11 dBm + 10 log 21.56					
Max Output Power DC corrected	--	24.34	18.85	dBm	na

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.12	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.12	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:33:22
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	True   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

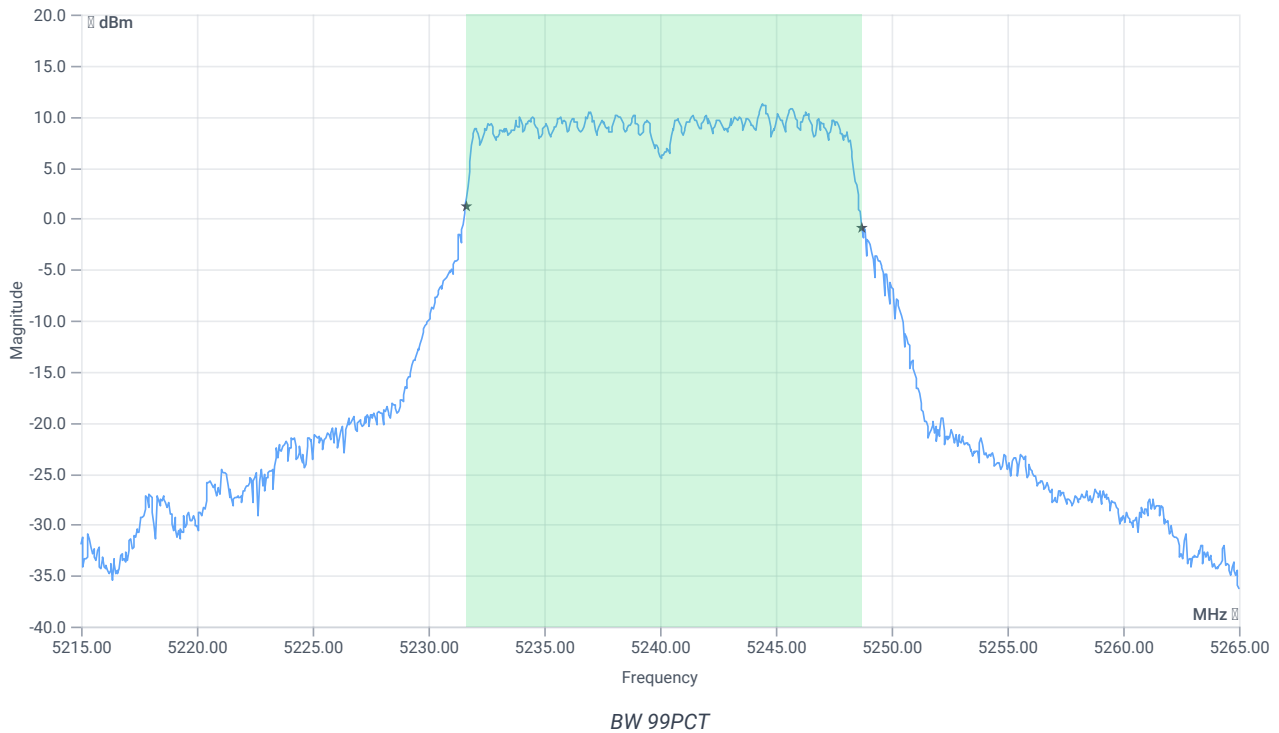
## Test at TX 5240 MHz

RESULT: Reference Power cond.

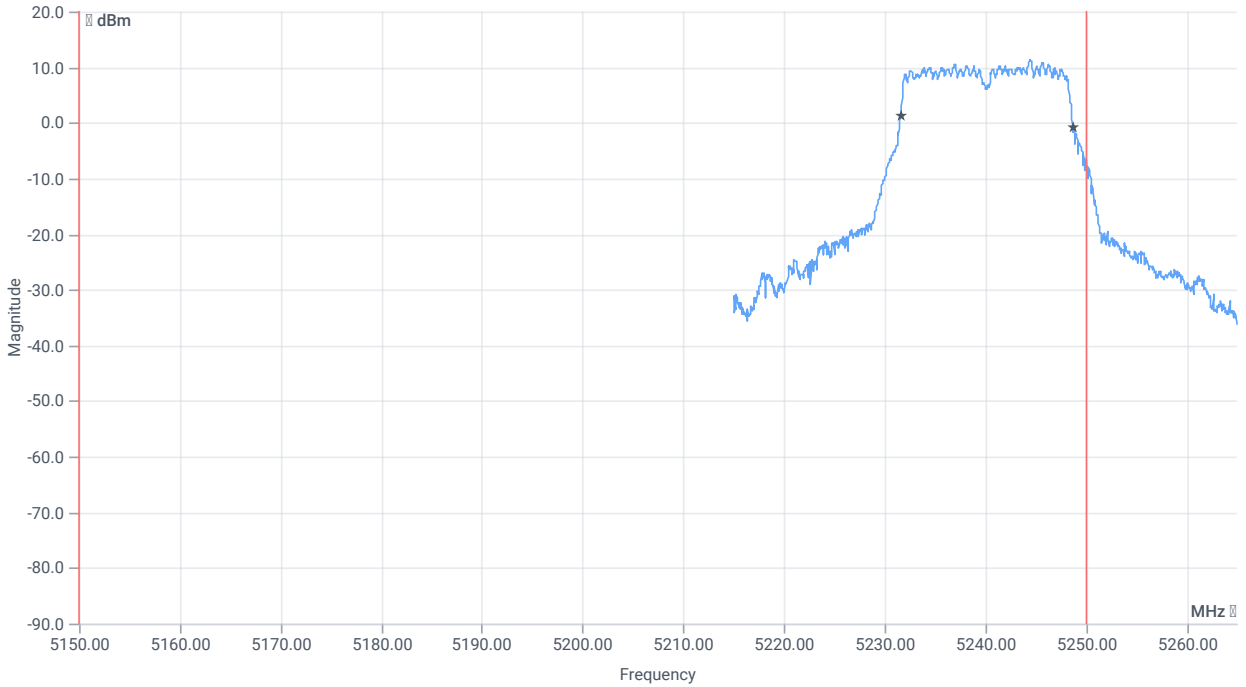
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	17.43	dBm	INFO
Ref. Frequency	--	--	5244.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	25.43   16.37   25
Start [MHz]   Stop [MHz]	5215.000   5265.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE



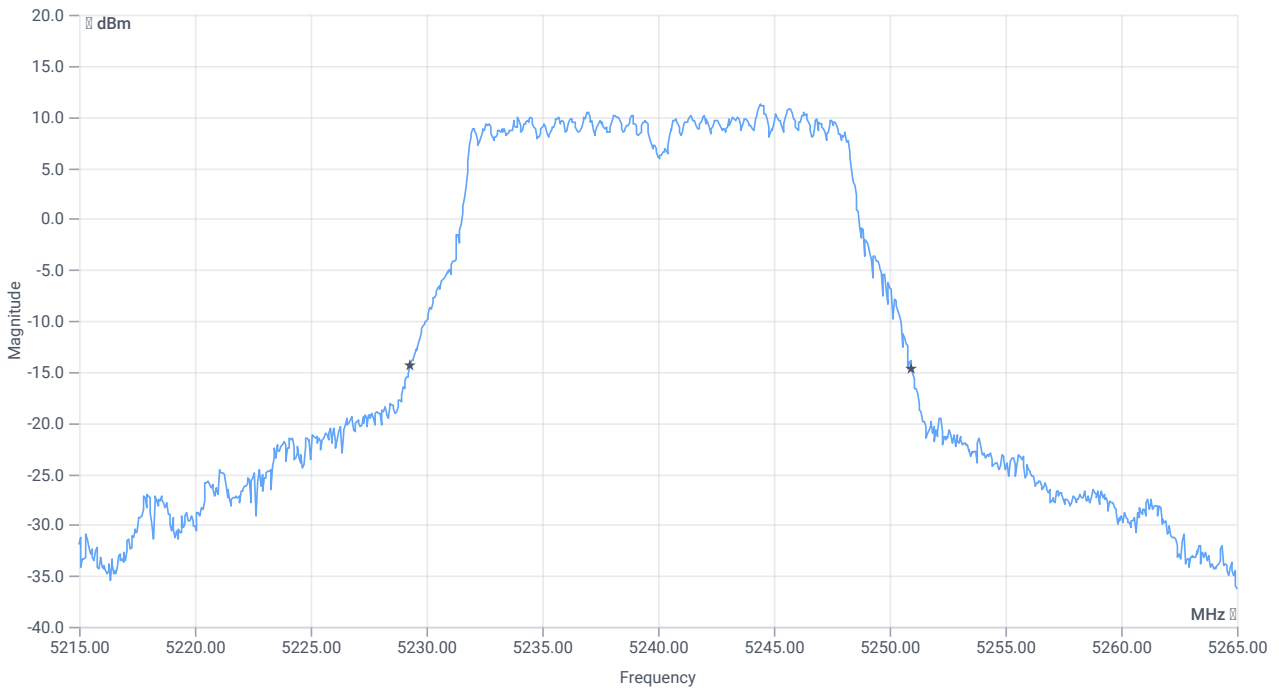




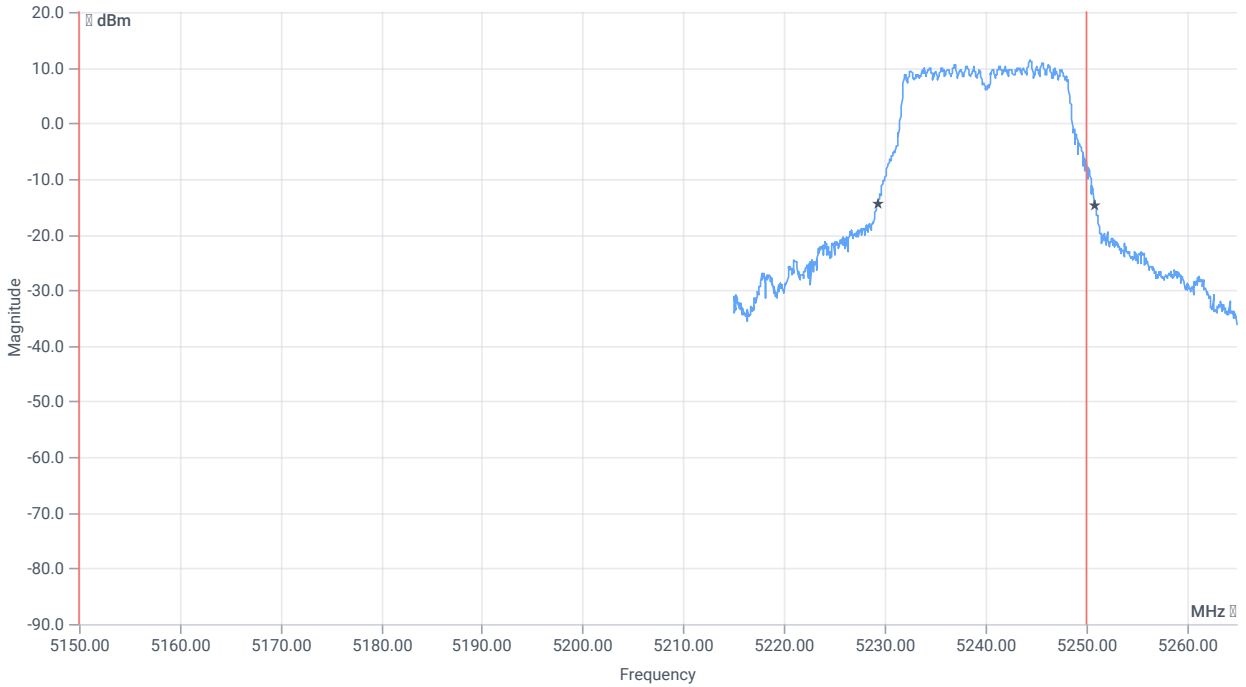
BW within Band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.083	MHz	INFO
T1 99%	5150.000000	--	5231.6084	MHz	PASS
T2 99%	--	5250.000000	5248.6913	MHz	PASS



BW 26dB



BW within Band 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.65	MHz	INFO
T1 26dB	5150.000000	---	5229.3000	MHz	PASS
T2 26dB	---	5250.000000	5250.9500	MHz	DFS required

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-1

### References

TC start	24.07.2023 15:33:52
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-1
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5180
Frequency mid to test	False   Freq [MHz] 5200
Frequency high to test	True   Freq [MHz] 5240
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5240 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	19.5	dBm	INFO
Ant:1 BW 26dB	--	--	21.720	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	18.85	dBm	INFO
Ant:2 BW 26dB	--	--	21.560	MHz	INFO
Σ Limit absolute	--	24	22.2	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.56	--	24.34	22.2	dBm	na

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.81	dBm/1MHz	INFO
Ant:2 PSD	--	--	7.12	dBm/1MHz	INFO
Σ	--	11	10.49	dBm/1MHz	PASS

### Verdict

PASS

## # Message with SA scan ~

### References

TC start	24.07.2023 15:39:41
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_2A
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 15:39:42
Message	set WLAN5Gx to a_mode_U_NII_2A, Frequency [MHz] 5260 ,

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

# FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

## References

TC start	24.07.2023 15:39:50
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	PS74

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5260 MHz

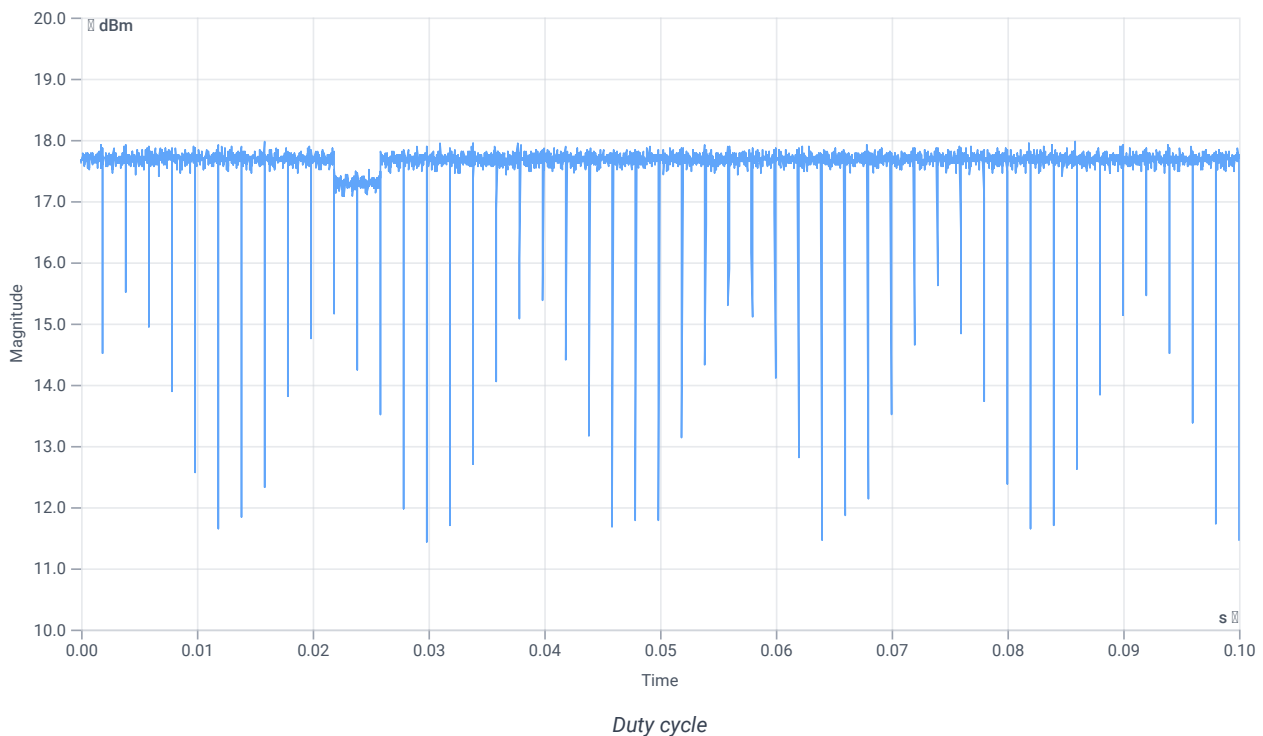
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.21	dBm	INFO
Ref. Frequency	--	--	5255.800	MHz	INFO

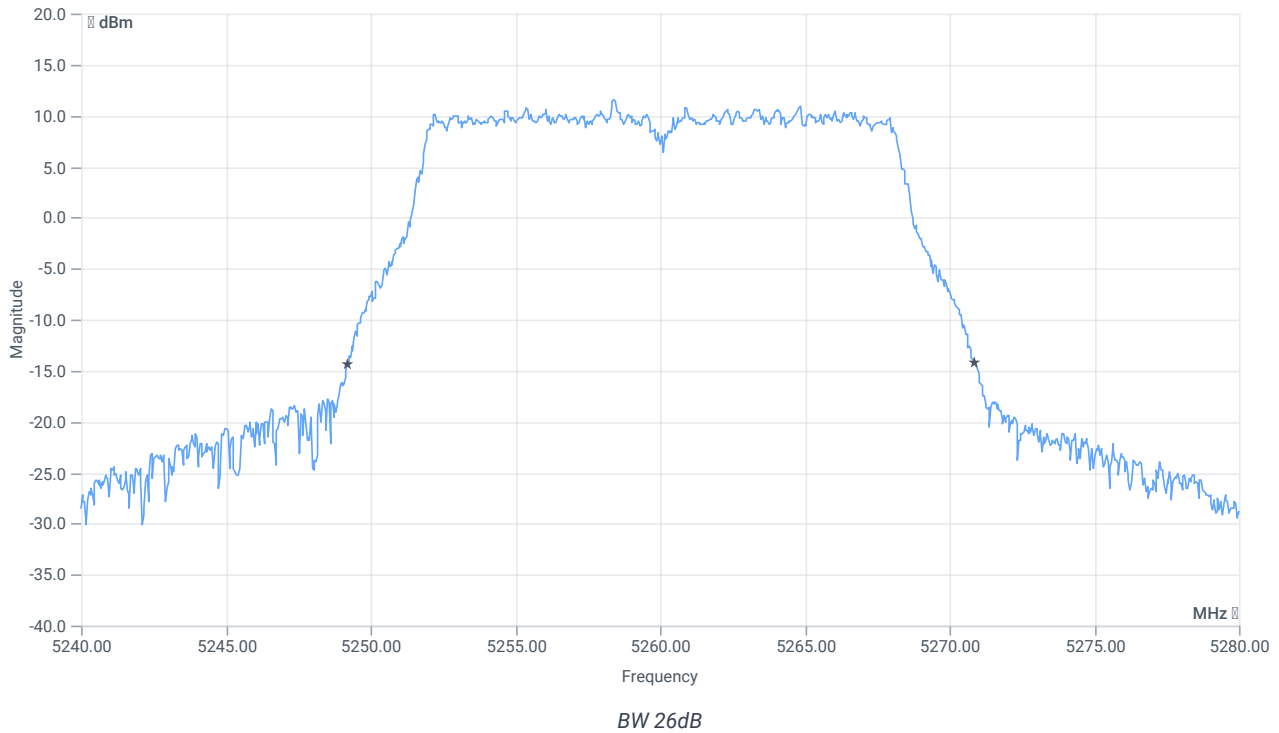
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



## RESULT

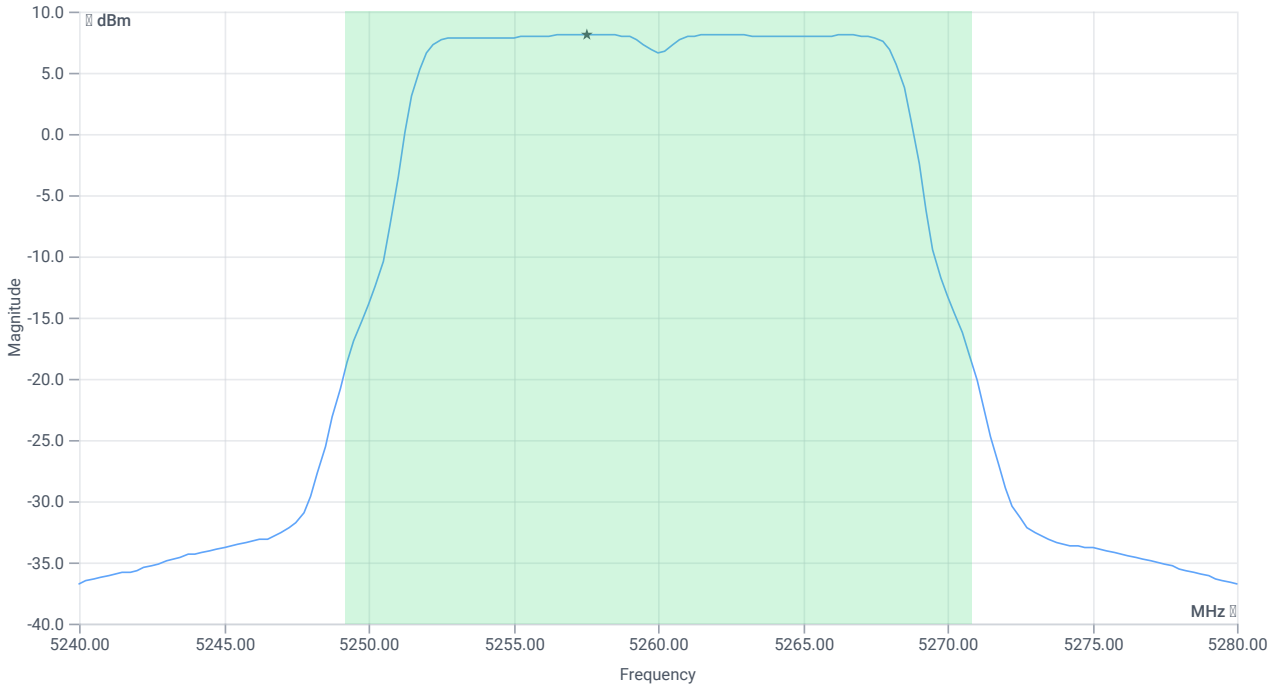
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.68	MHz	INFO
T1 26dB	---	---	5249.2000	MHz	INFO
T2 26dB	---	---	5270.8800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.21   16.34   30
Start [MHz]   Stop [MHz]	5240.000   5280.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE





Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	19.82	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.82	dBm	PASS
Limit: 11 dBm + 10 log 21.68					
Max Output Power DC corrected	--	24.36	19.82	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	8.1	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	8.1	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:41:17
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

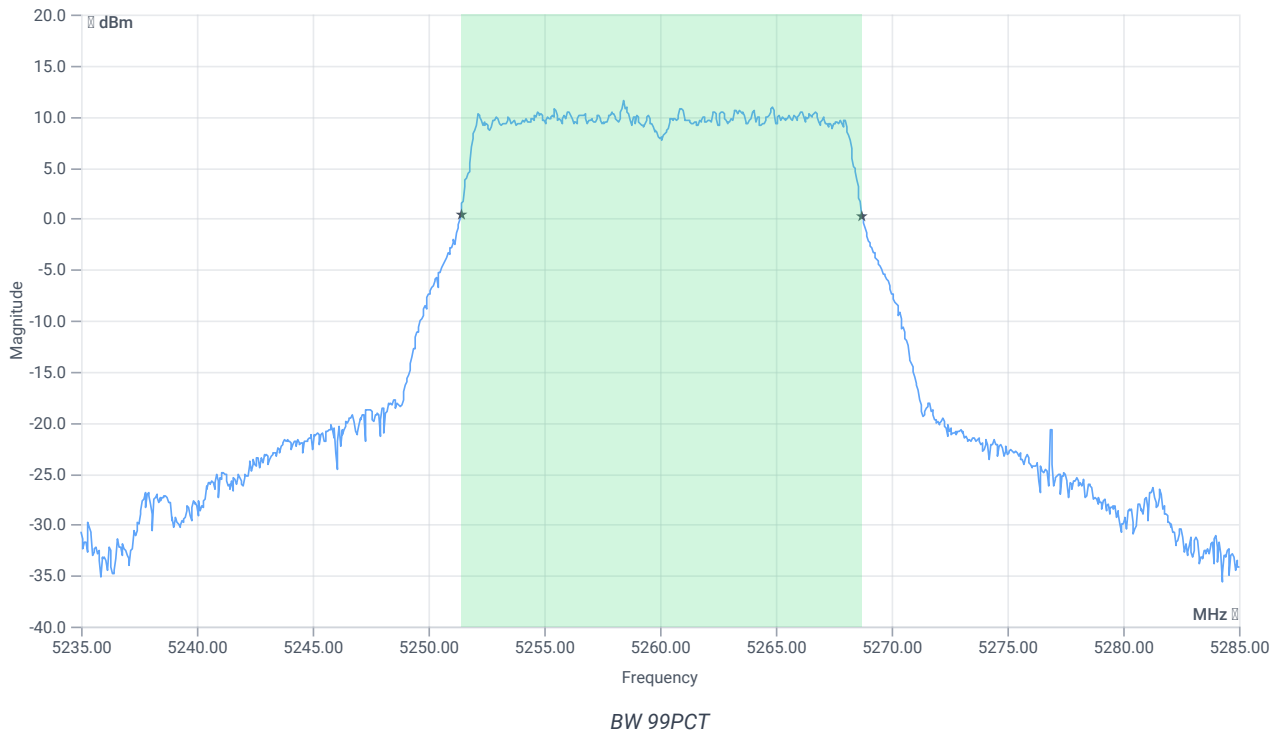
## Test at TX 5260 MHz

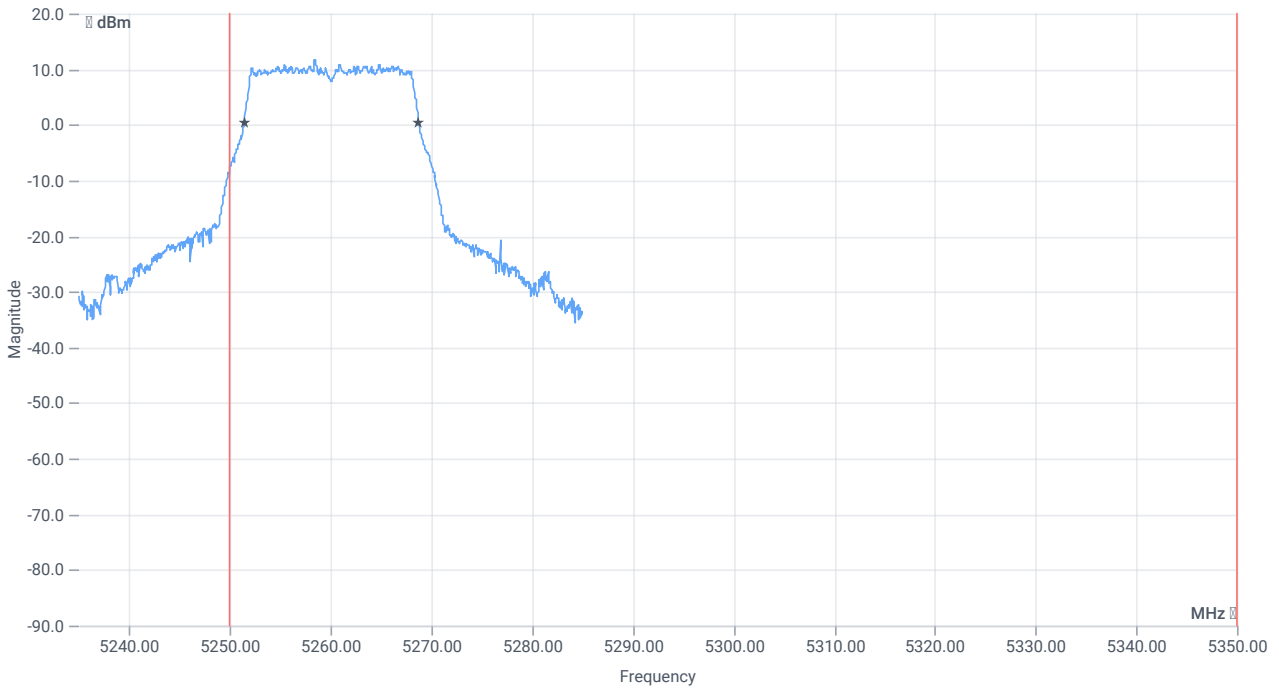
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.96	dBm	INFO
Ref. Frequency	--	--	5256.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.96   16.34   25
Start [MHz]   Stop [MHz]	5235.000   5285.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

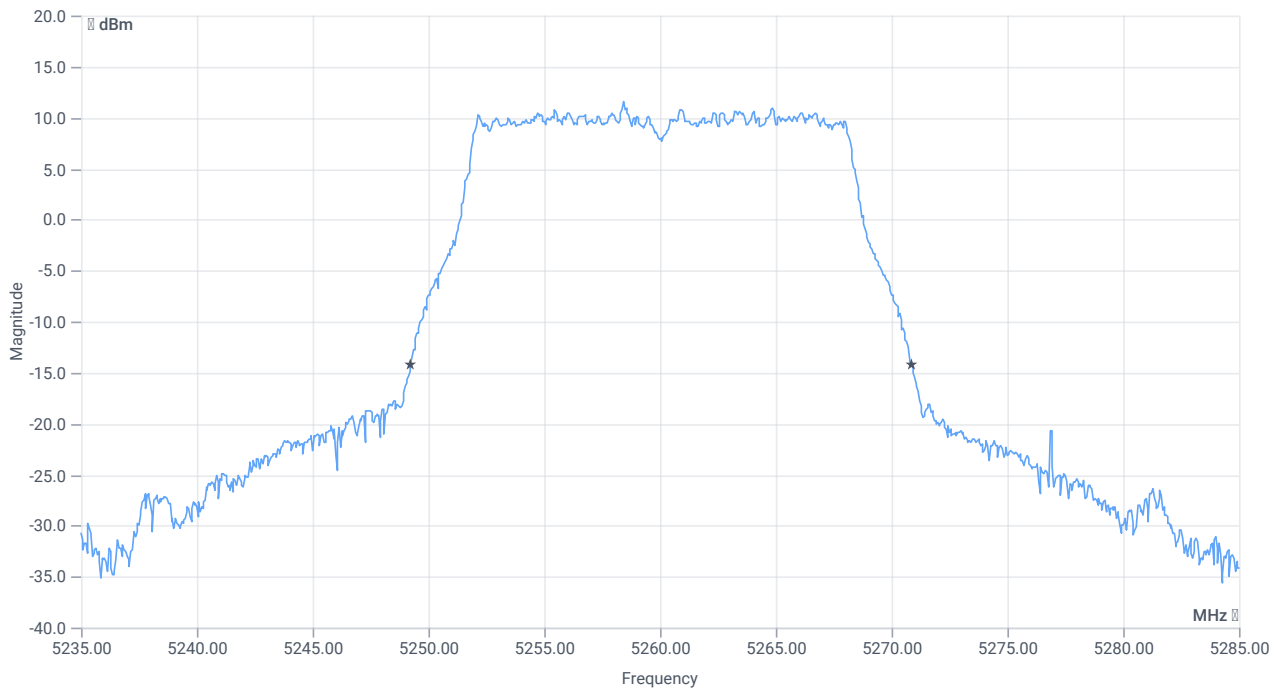




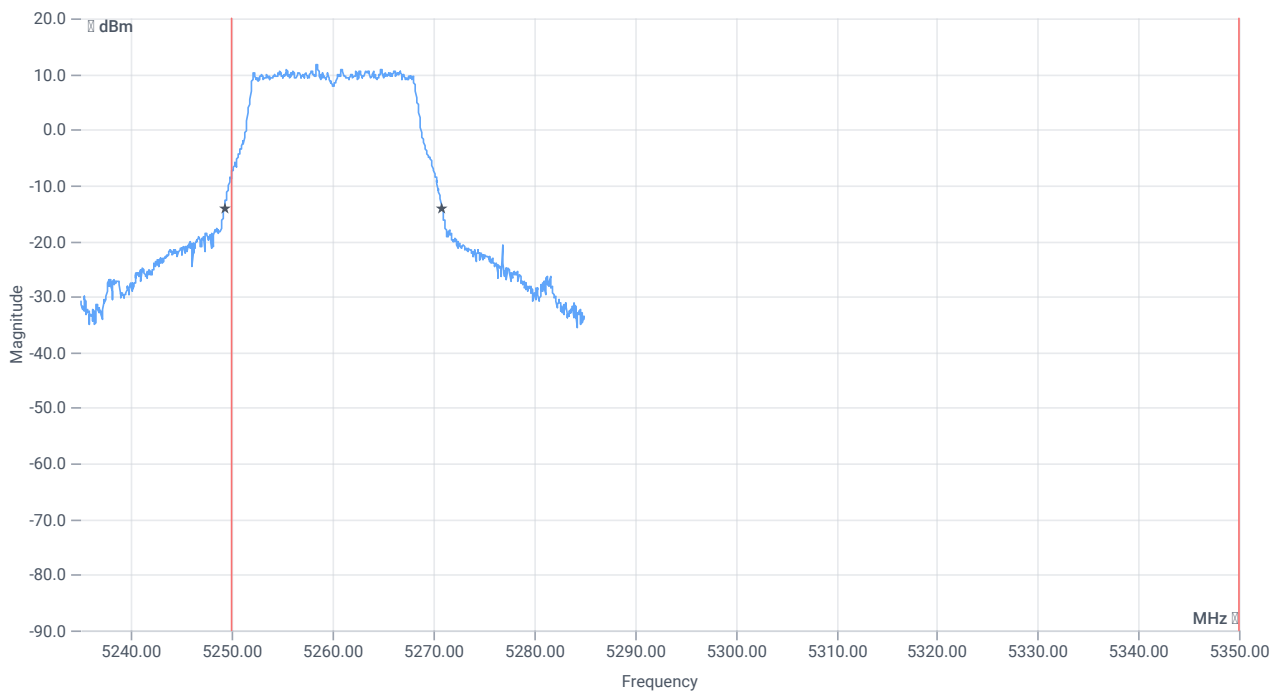
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.283	MHz	INFO
T1 99%	5250.000000	--	5251.4086	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5268.6913	MHz	PASS



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5250.000000	--	5249.2500	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5270.8500	MHz	PASS

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:41:48
Ambit temp [°C]   humidity [rel%]	25.6   53
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5260 MHz

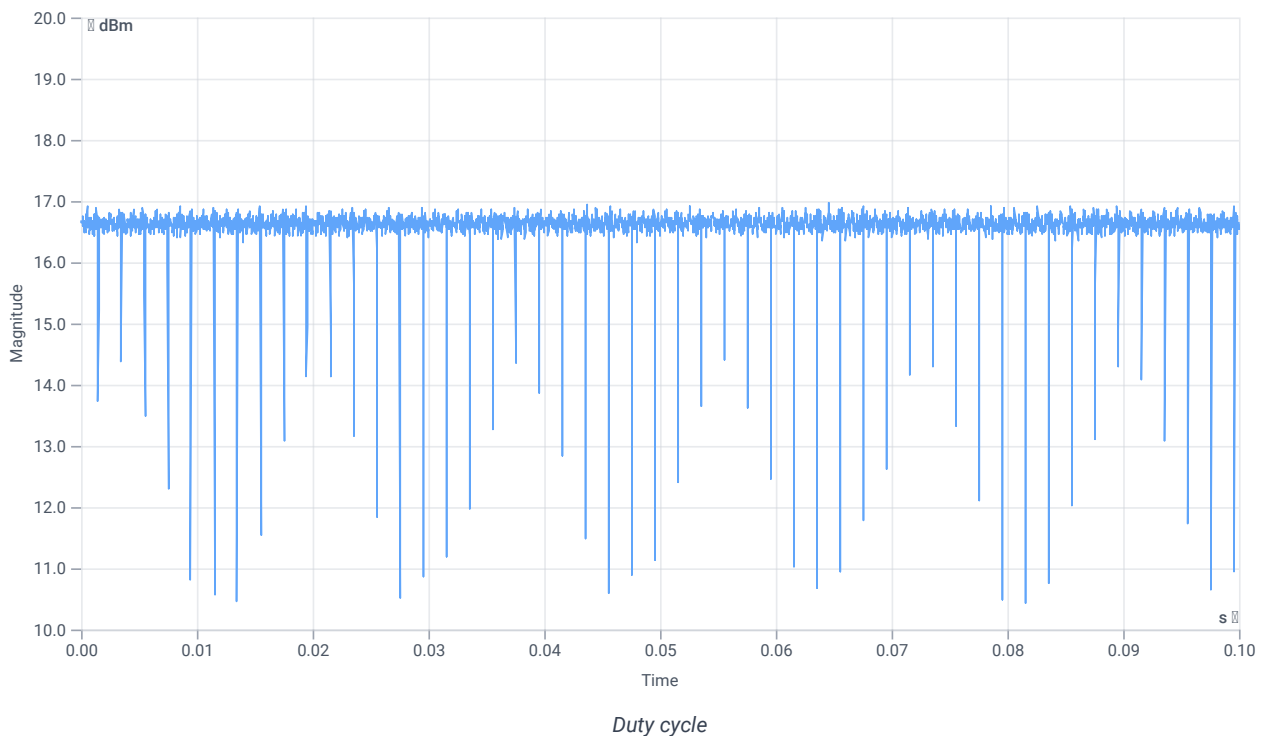
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	17.28	dBm	INFO
Ref. Frequency	--	--	5264.200	MHz	INFO

## Evaluation max. Duty Cycle

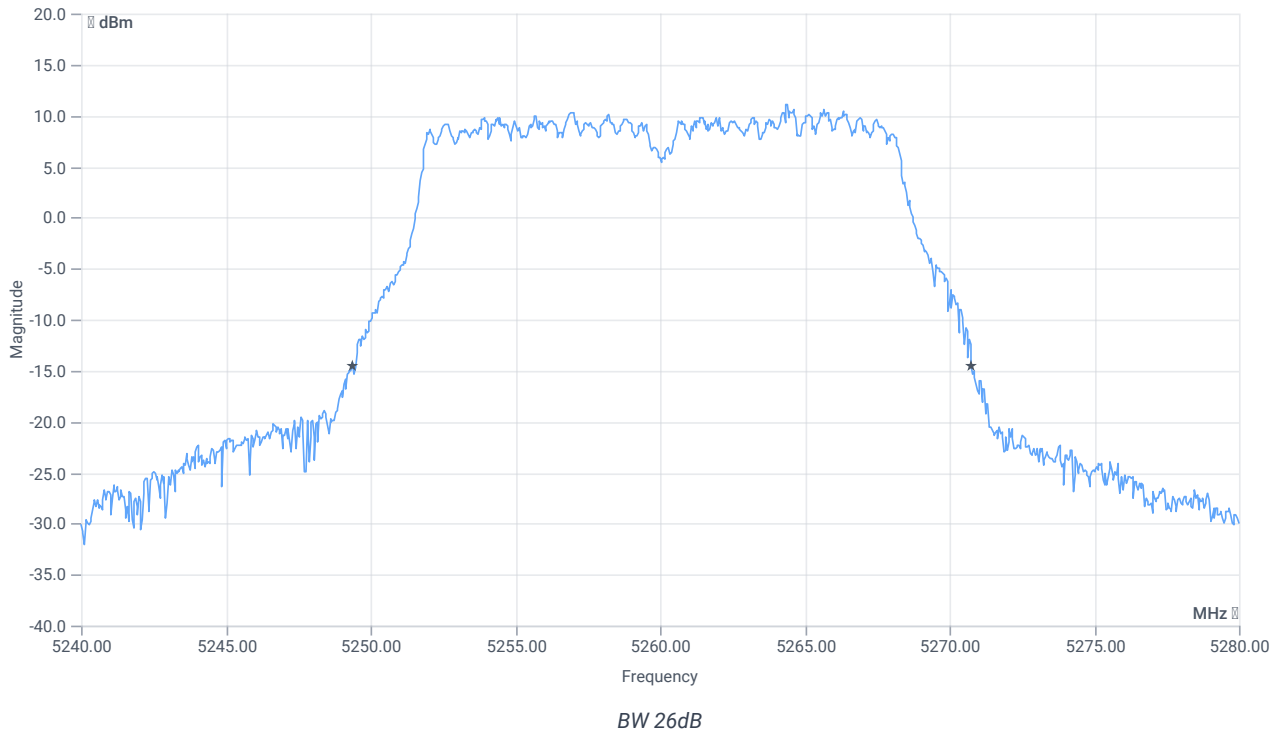
### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth





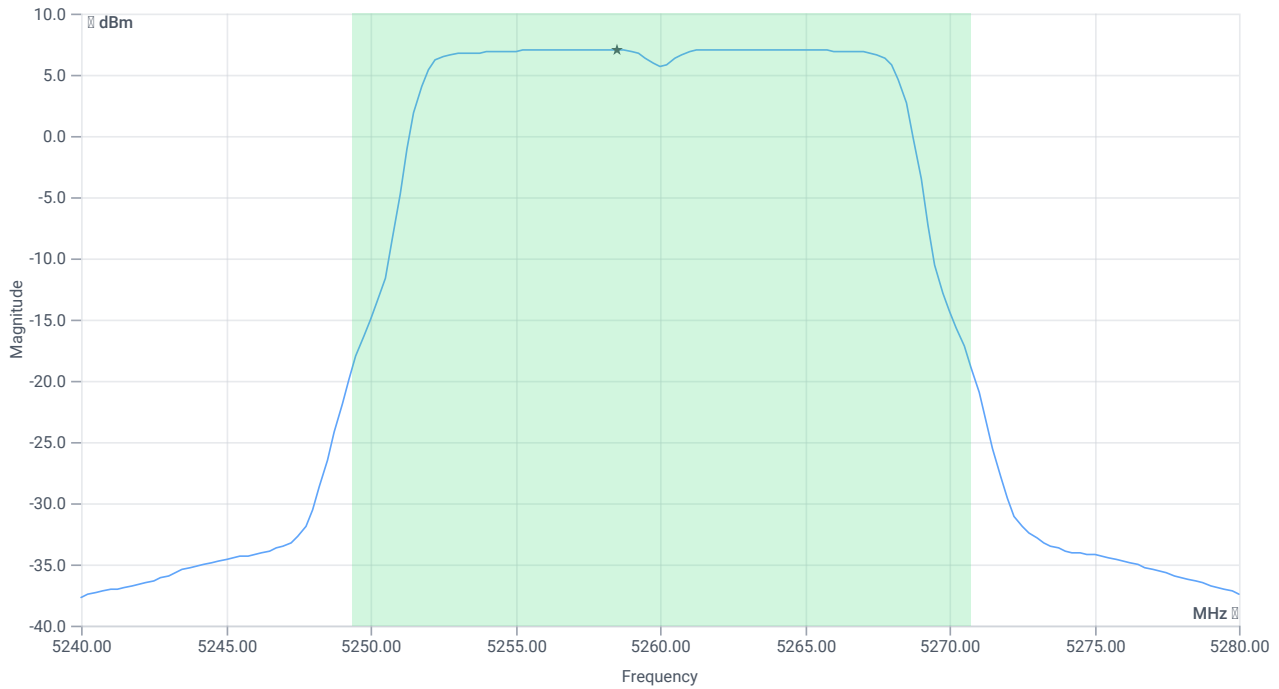
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.4	MHz	INFO
T1 26dB	---	---	5249.3600	MHz	INFO
T2 26dB	---	---	5270.7600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	29.28   16.34   30
Start [MHz]   Stop [MHz]	5240.000   5280.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.79	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.79	dBm	PASS
Limit: 11 dBm + 10 log 21.4					
Max Output Power DC corrected	--	24.3	18.79	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.06	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.06	dBm/1MHz	PASS

### Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A

## References

TC start	24.07.2023 15:43:15
Ambit temp [°C]   humidity [rel%]	25.6   54
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Information	PS74

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

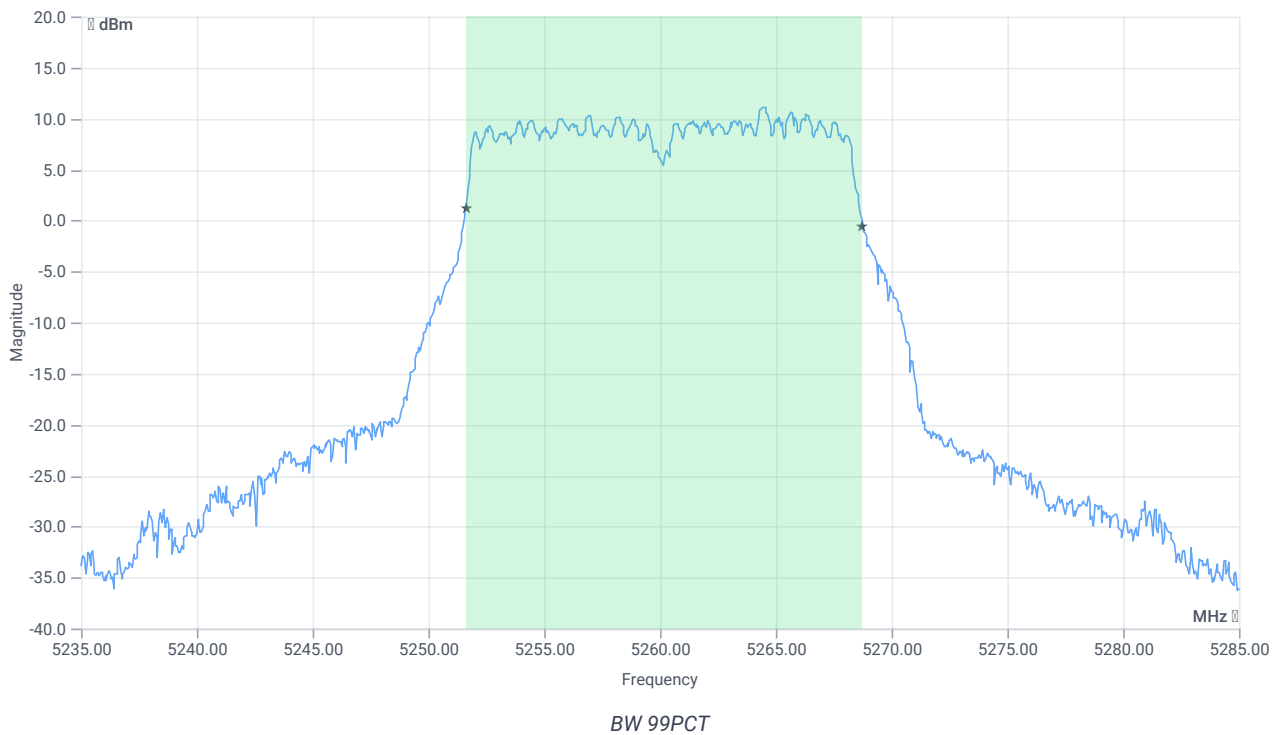
## Test at TX 5260 MHz

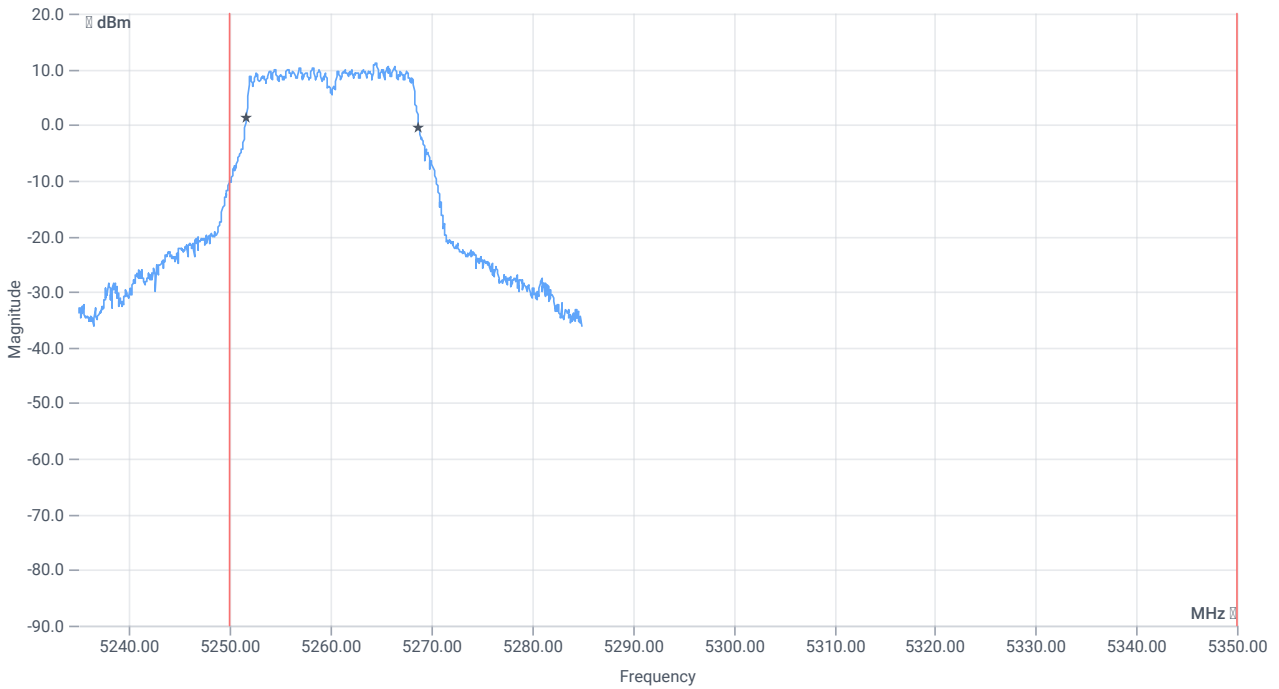
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.47	dBm	INFO
Ref. Frequency	--	--	5257.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.47   16.34   25
Start [MHz]   Stop [MHz]	5235.000   5285.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

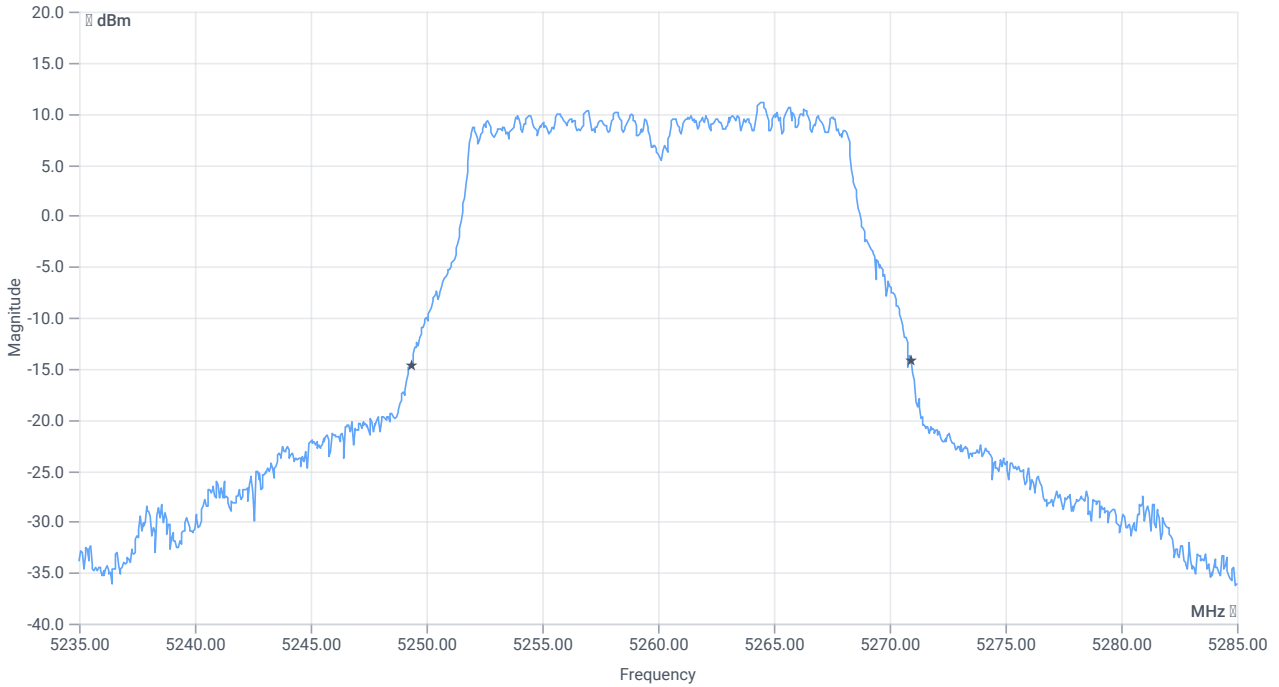




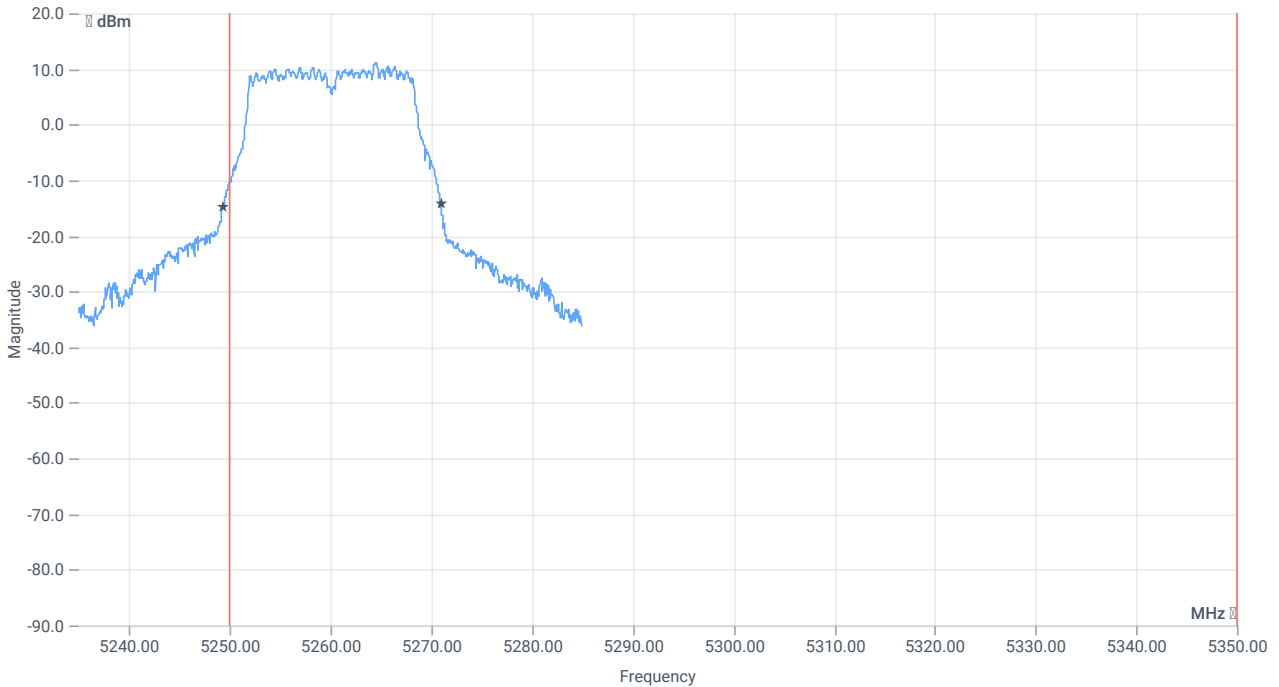
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.133	MHz	INFO
T1 99%	5250.000000	--	5251.6084	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5268.7413	MHz	PASS



*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5250.000000	--	5249.3500	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5270.9500	MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:43:46
Ambit temp [°C]   humidity [rel%]	25.6   54
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-2A
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment



## Test at TX 5260 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	19.82	dBm	INFO
Ant:1 BW 26dB	--	--	21.680	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	18.79	dBm	INFO
Ant:2 BW 26dB	--	--	21.400	MHz	INFO
Σ Limit absolute	--	24	22.35	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.4	--	24.3	22.35	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	8.1	dBm/1MHz	INFO
Ant:2 PSD	--	--	7.06	dBm/1MHz	INFO
Σ	--	11	10.62	dBm/1MHz	PASS

### Verdict

PASS

## # Message with SA scan ~

### References

TC start	24.07.2023 15:45:00
Ambit temp [°C]   humidity [rel%]	25.6   54
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_2A
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 15:45:01
Message	set WLAN5Gx to a_mode_U_NII_2A, Frequency [MHz] 5280 ,

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:45:23
Ambit temp [°C]   humidity [rel%]	25.6   54
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5280 MHz

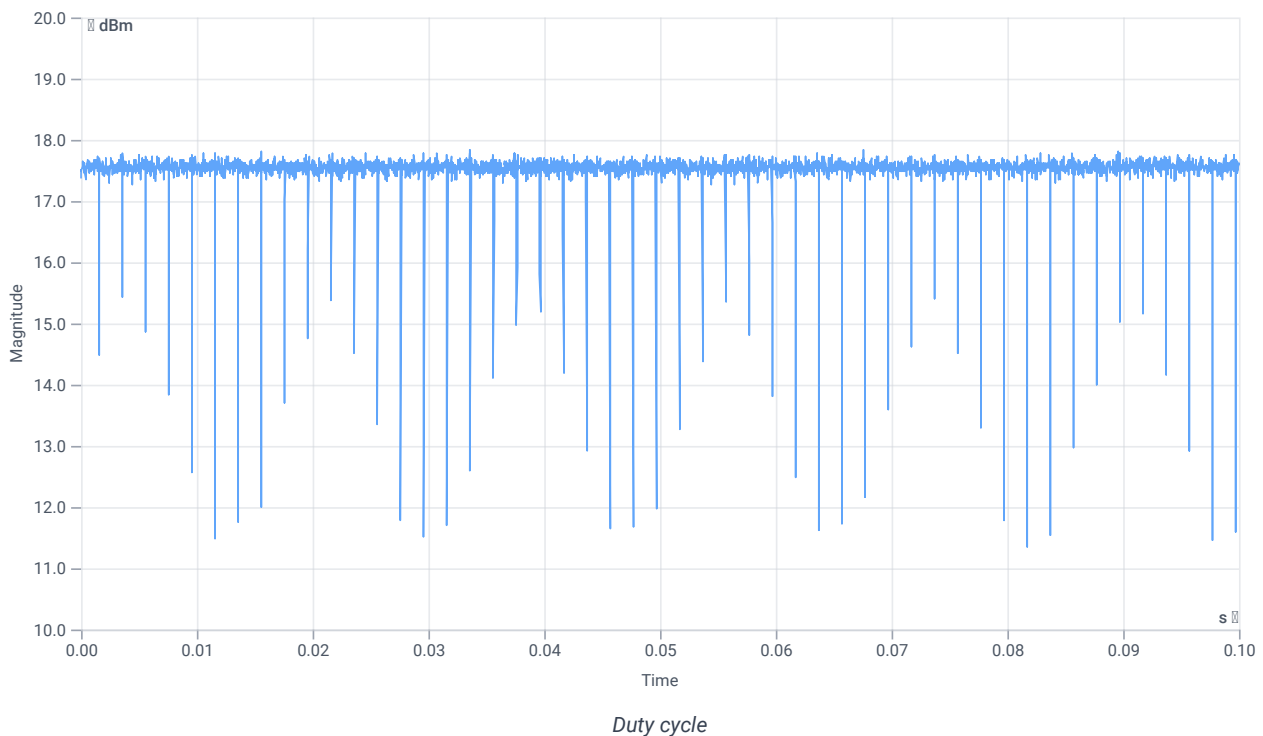
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.03	dBm	INFO
Ref. Frequency	--	--	5281.400	MHz	INFO

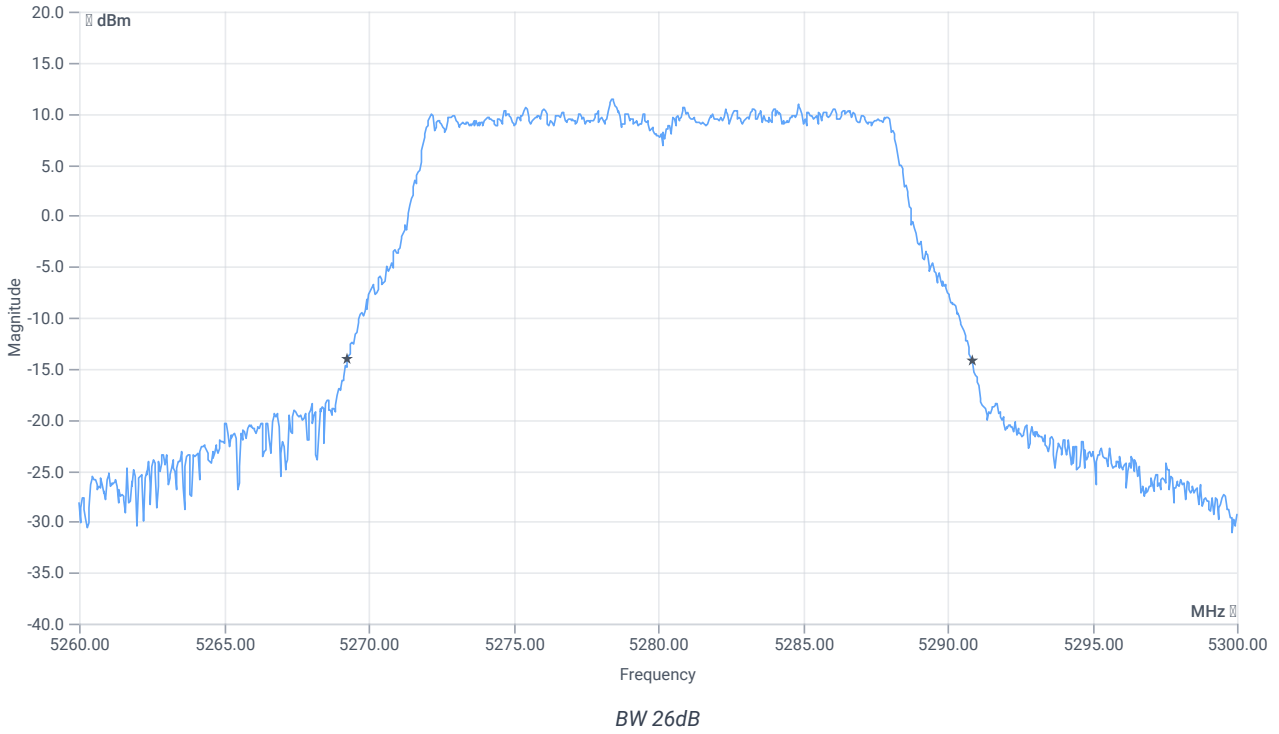
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



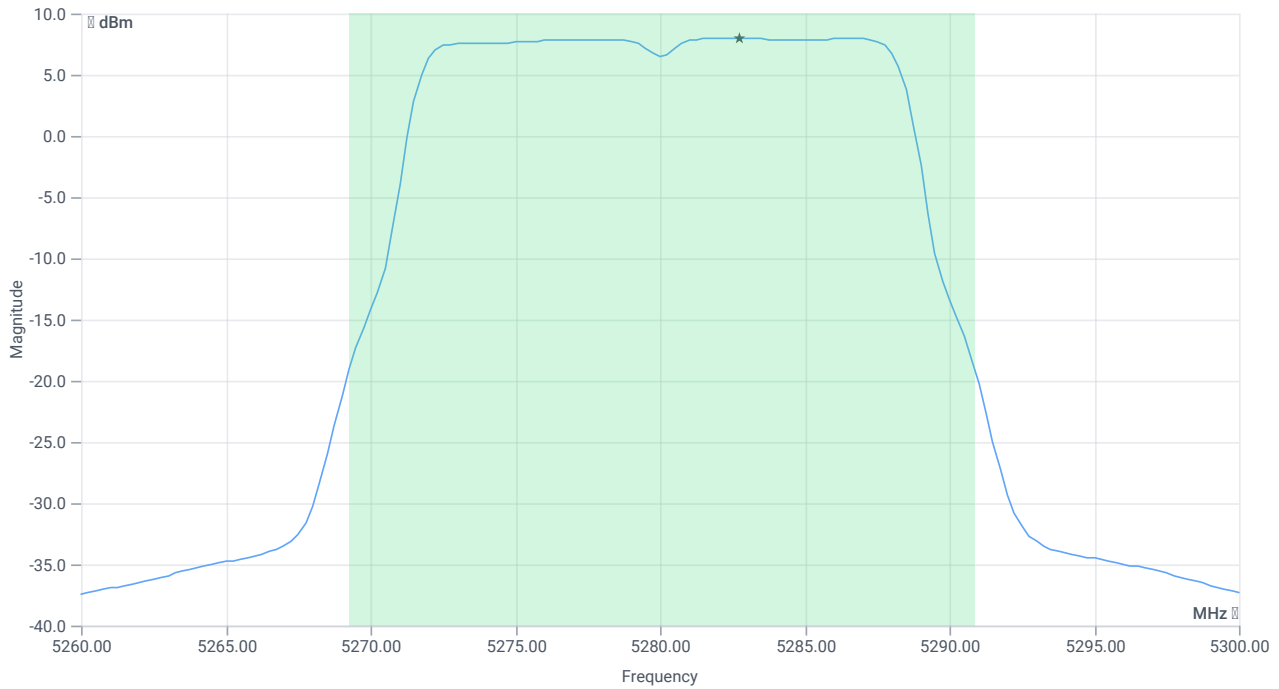
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO
T1 26dB	---	---	5269.2800	MHz	INFO
T2 26dB	---	---	5290.8800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.03   16.1   30
Start [MHz]   Stop [MHz]	5260.000   5300.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	19.66	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.66	dBm	PASS
Limit: 11 dBm + 10 log 21.6					
Max Output Power DC corrected	--	24.34	19.66	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.98	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.98	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:46:51
Ambit temp [°C]   humidity [rel%]	25.6   55
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

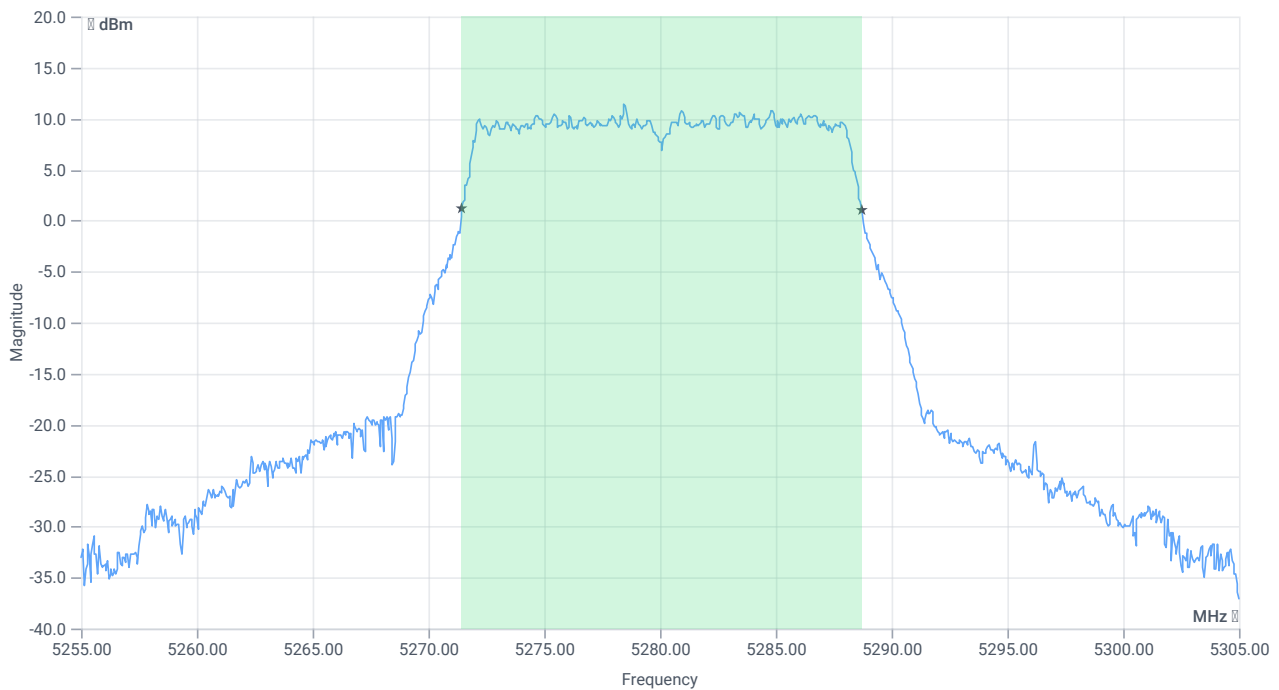
## Test at TX 5280 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.83	dBm	INFO
Ref. Frequency	--	--	5285.590	MHz	INFO

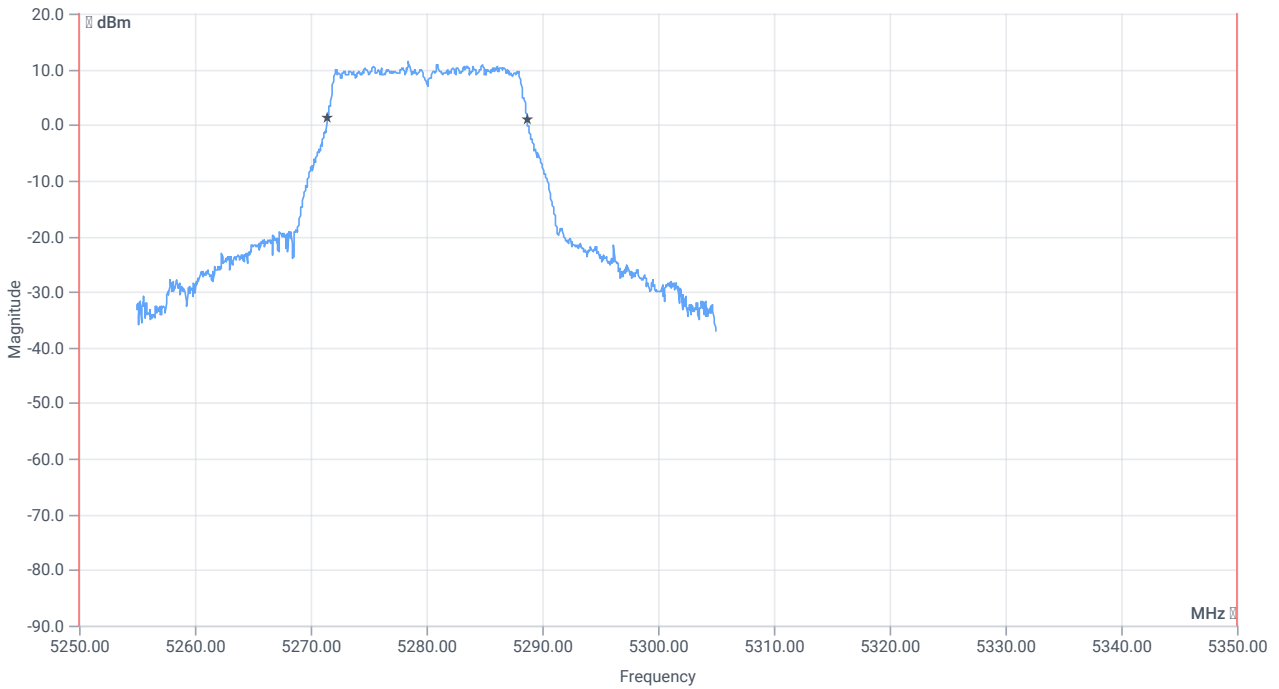
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.83   16.1   25
Start [MHz]   Stop [MHz]	5255.000   5305.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE



BW 99PCT

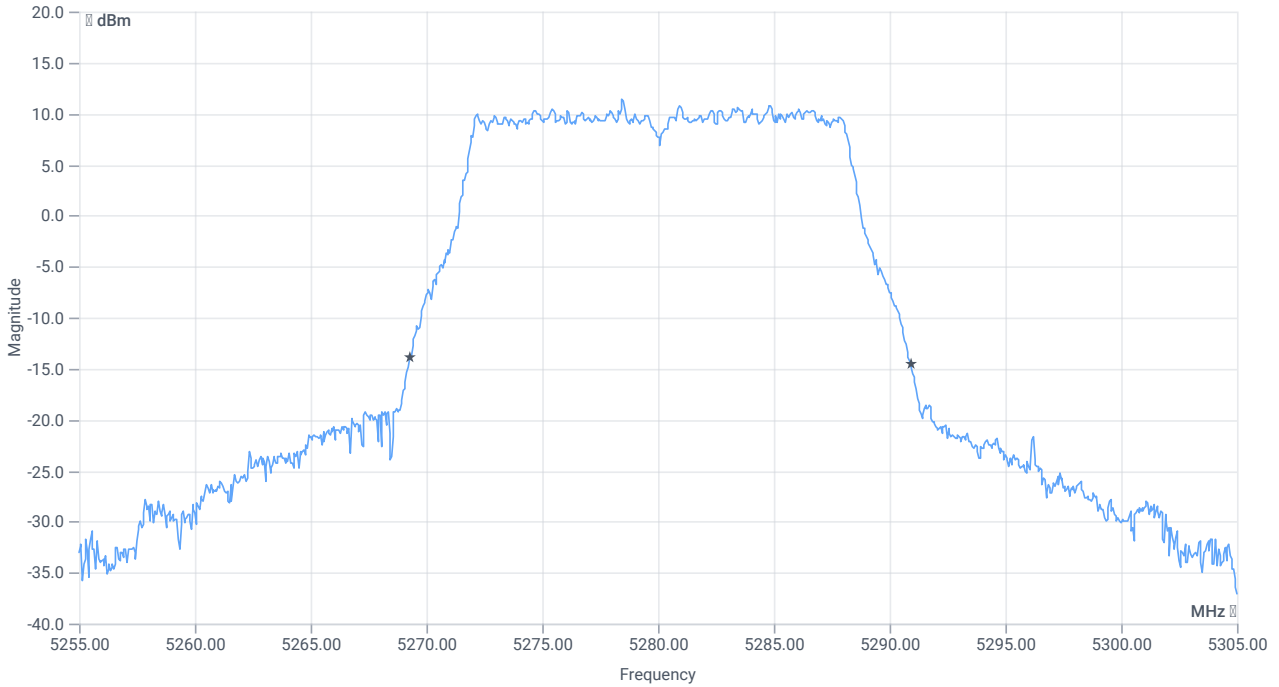




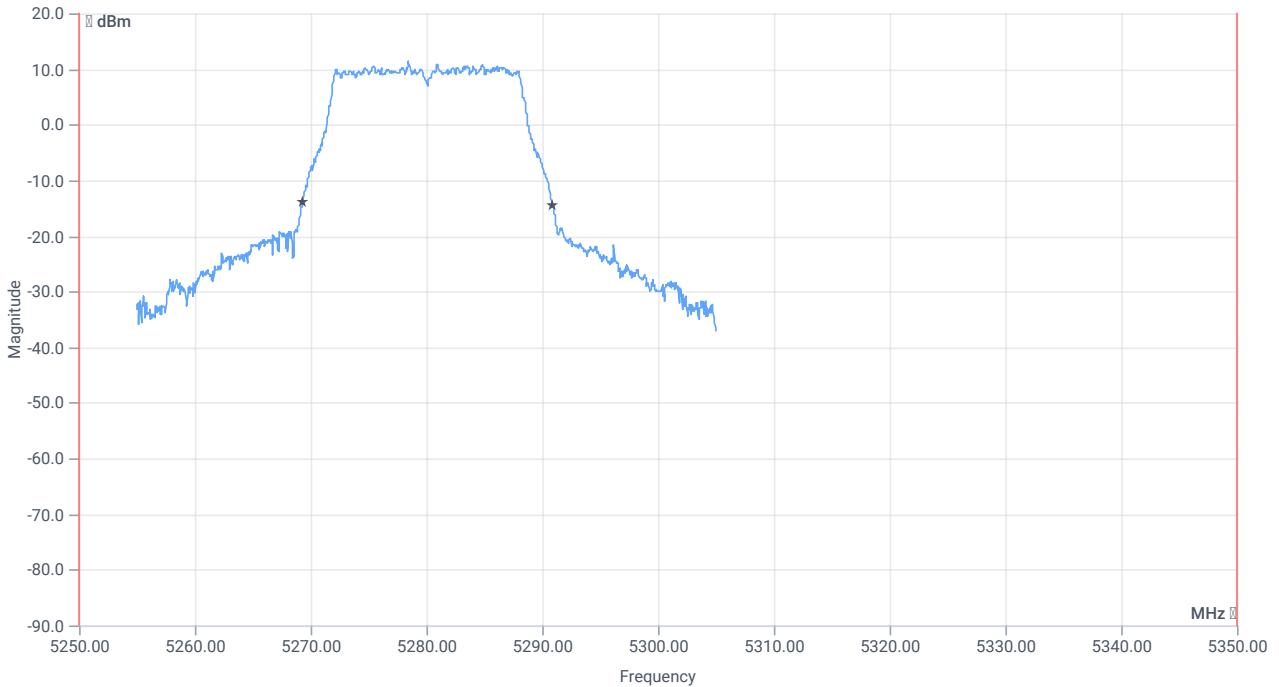
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.233	MHz	INFO
T1 99%	5250.000000	--	5271.4585	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5288.6913	MHz	PASS



*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5250.000000	--	5269.3000	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5290.9000	MHz	PASS

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:47:21
Ambit temp [°C]   humidity [rel%]	25.6   55
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5280 MHz

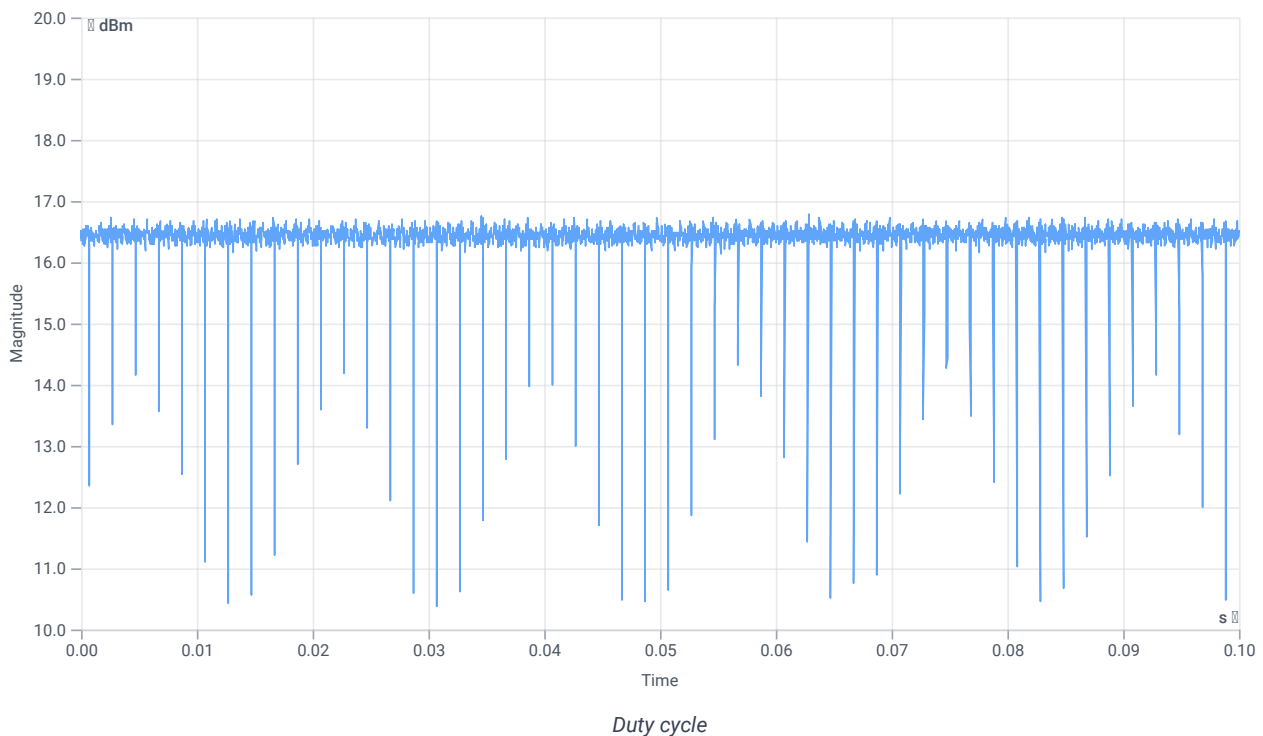
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.28	dBm	INFO
Ref. Frequency	--	--	5284.800	MHz	INFO

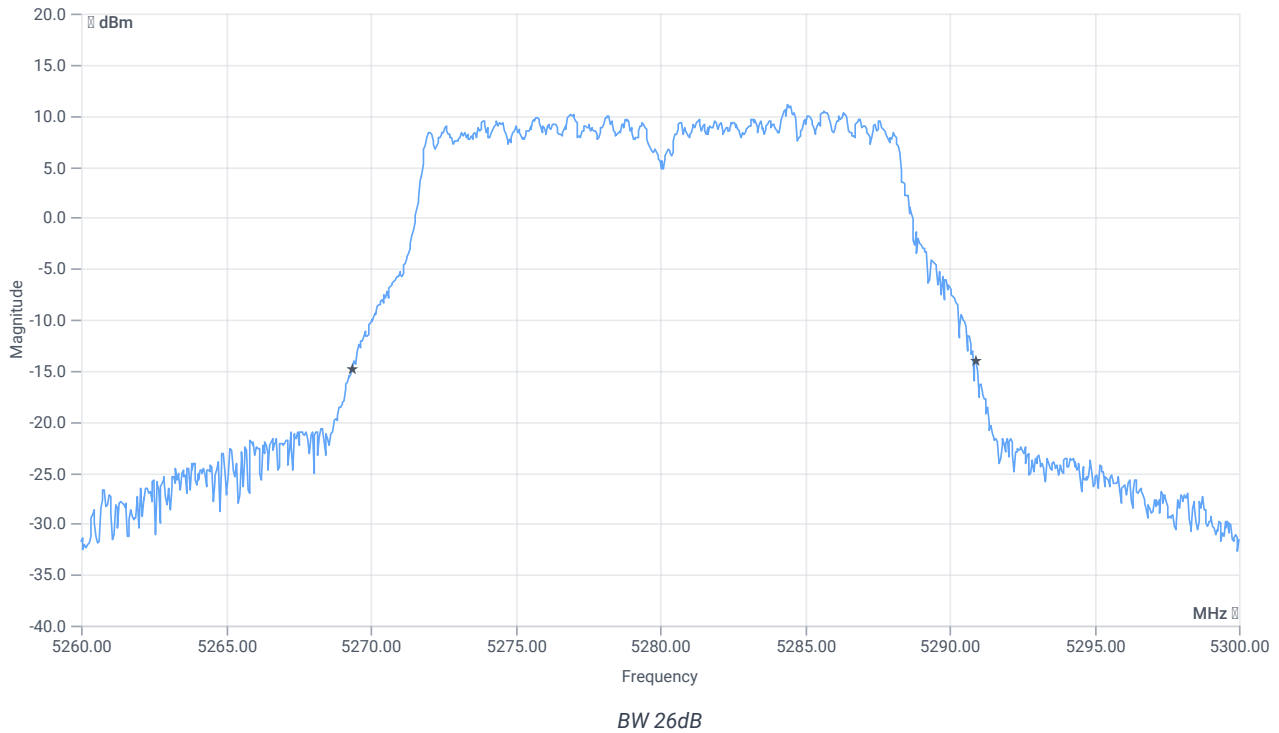
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



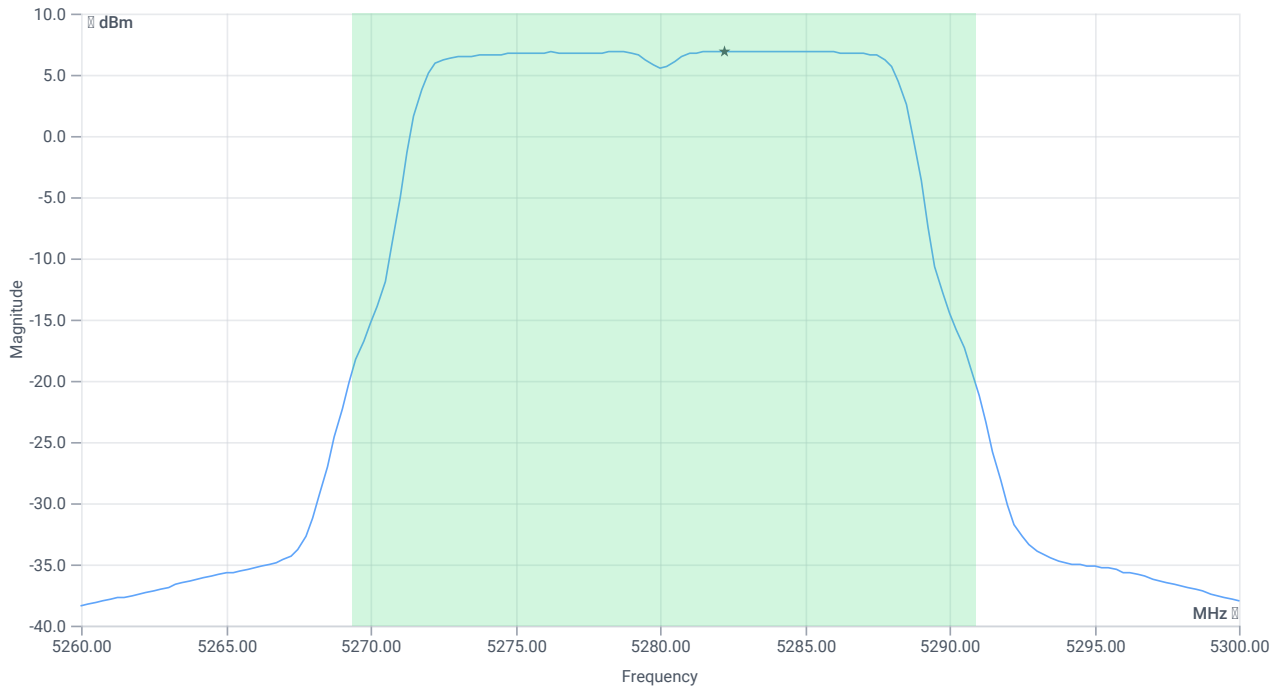
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.56	MHz	INFO
T1 26dB	---	---	5269.3600	MHz	INFO
T2 26dB	---	---	5290.9200	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.28   16.1   30
Start [MHz]   Stop [MHz]	5260.000   5300.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.61	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.61	dBm	PASS
Limit: 11 dBm + 10 log 21.56					
Max Output Power DC corrected	--	24.34	18.61	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	6.88	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	6.88	dBm/1MHz	PASS

### Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A

## References

TC start	24.07.2023 15:48:49
Ambit temp [°C]   humidity [rel%]	25.5   55
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Information	PS74

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI



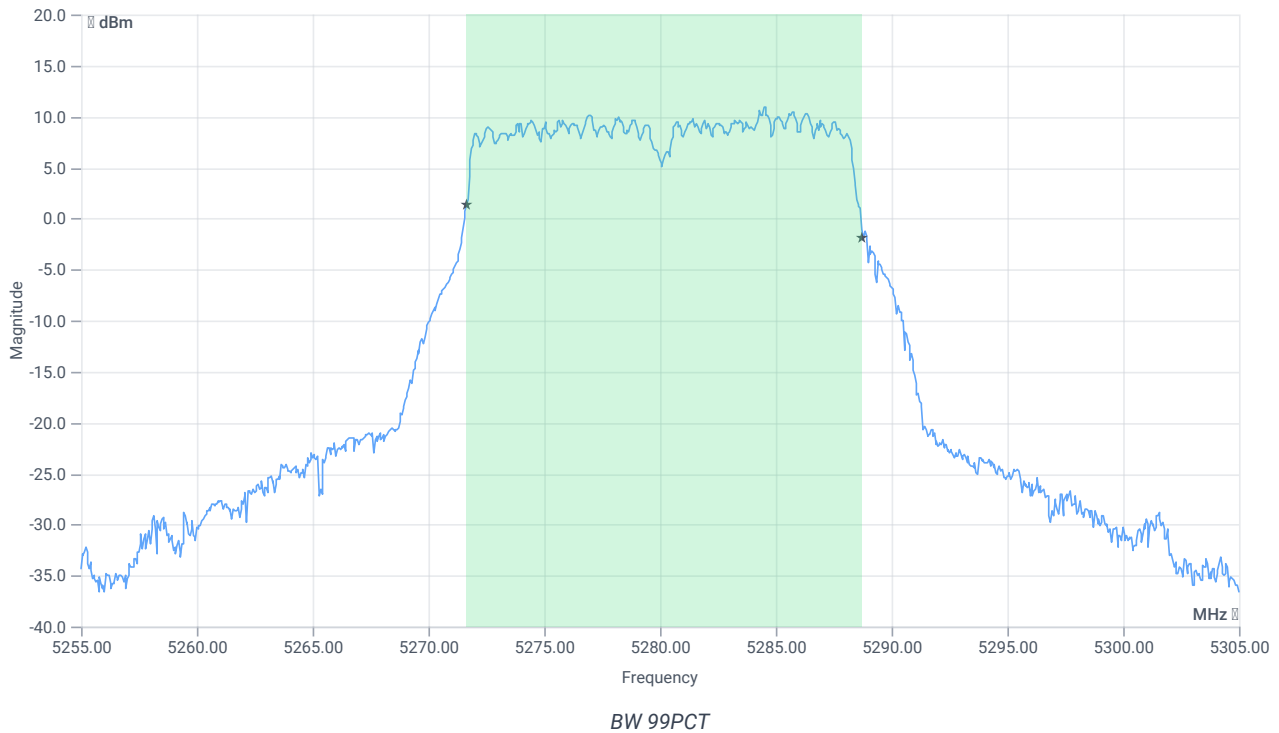
## Test at TX 5280 MHz

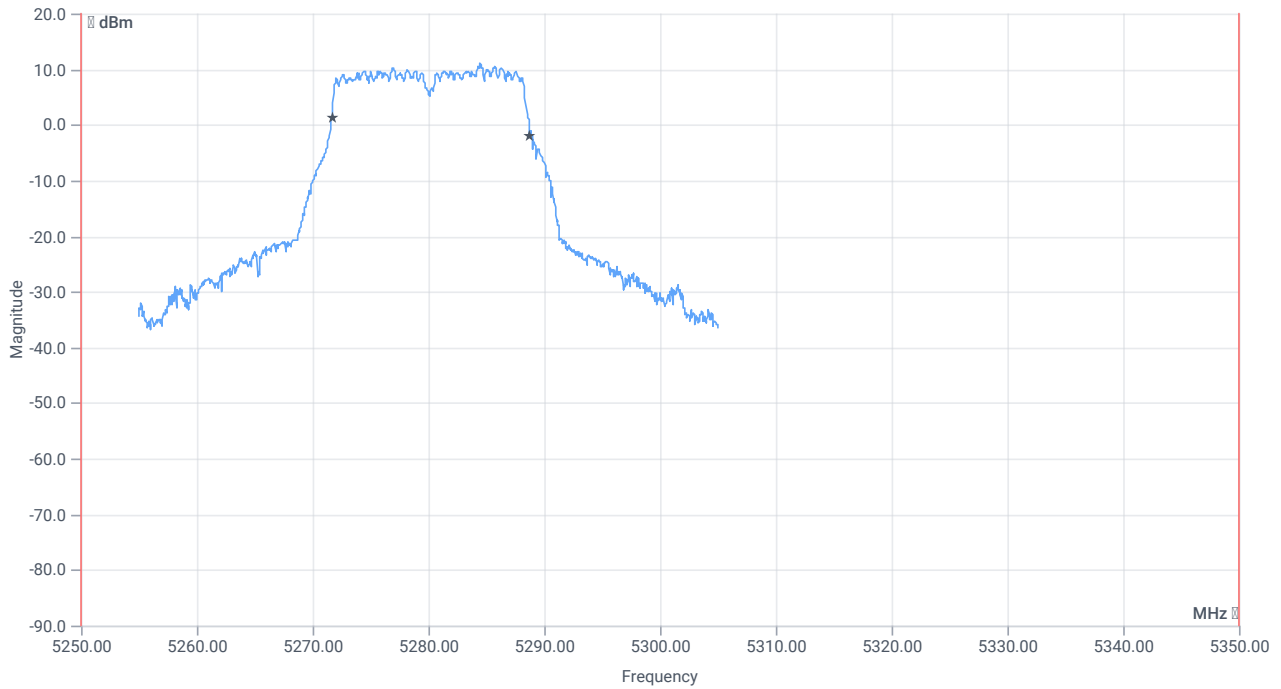
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.05	dBm	INFO
Ref. Frequency	--	--	5275.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.05   16.1   25
Start [MHz]   Stop [MHz]	5255.000   5305.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

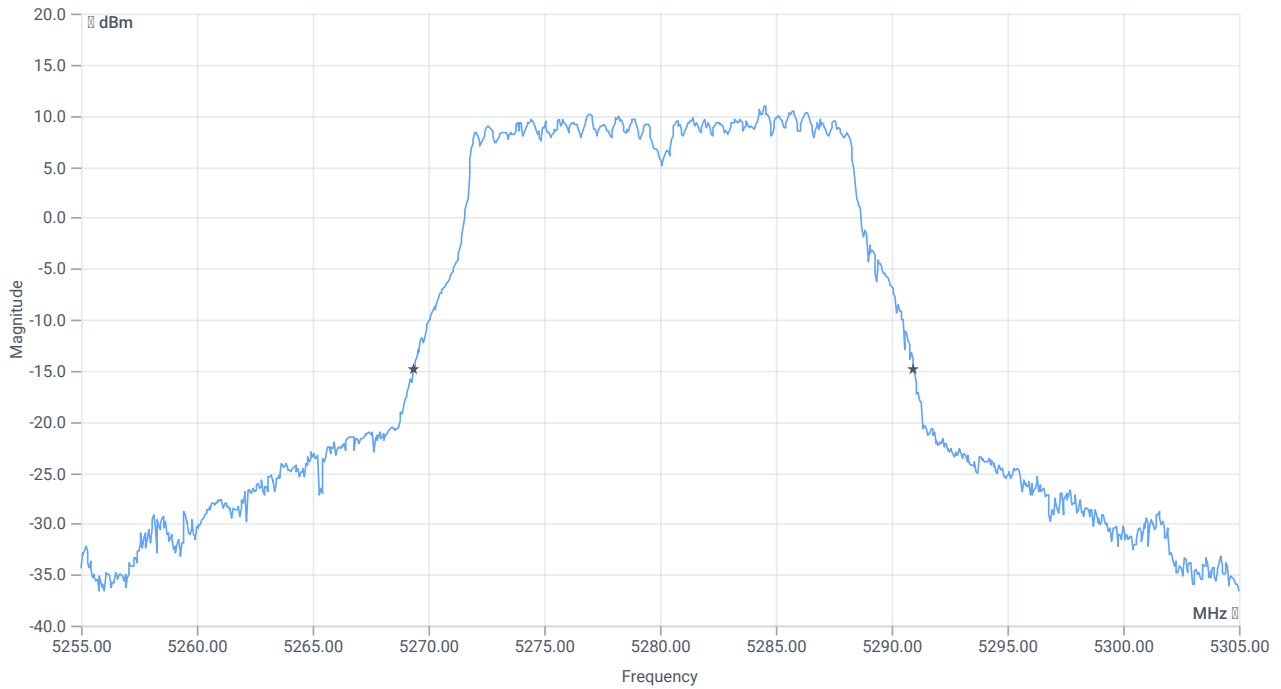




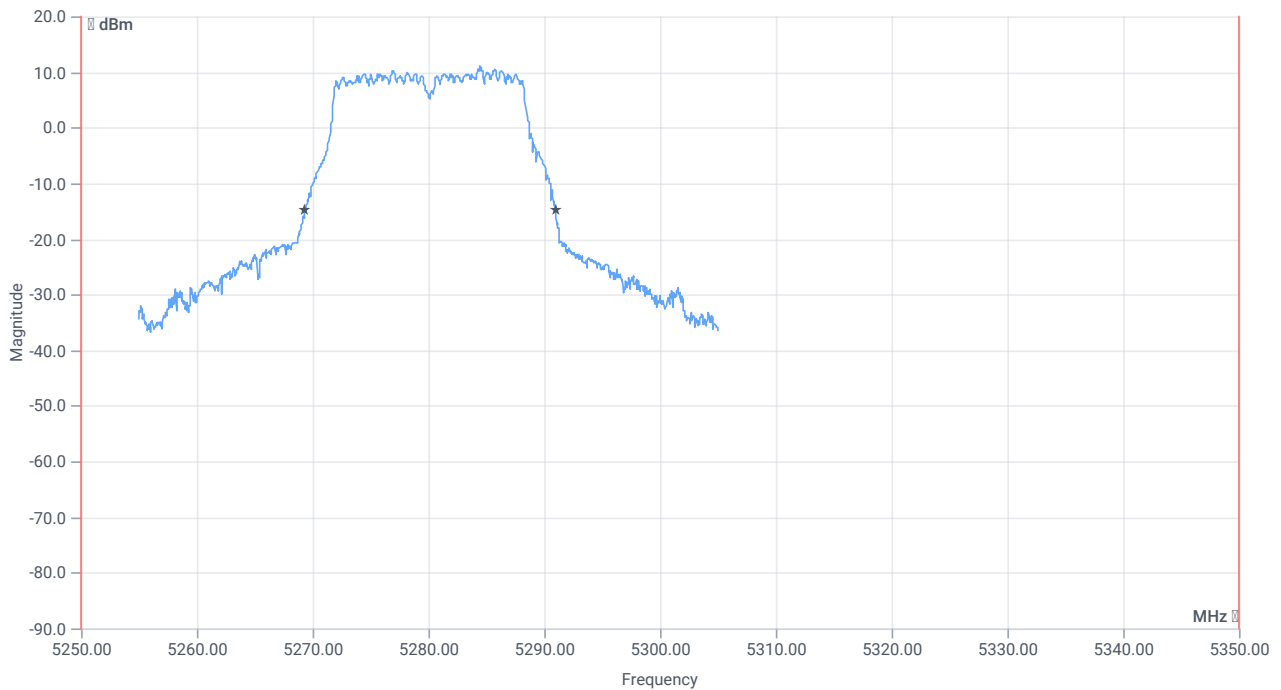
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.083	MHz	INFO
T1 99%	5250.000000	--	5271.6583	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5288.7413	MHz	PASS



*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5250.000000	--	5269.3500	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5290.9500	MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:49:19
Ambit temp [°C]   humidity [rel%]	25.5   55
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-2A
Information	PS74

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5280
Frequency high to test	False   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5280 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	19.66	dBm	INFO
Ant:1 BW 26dB	--	--	21.600	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	18.61	dBm	INFO
Ant:2 BW 26dB	--	--	21.560	MHz	INFO
Σ Limit absolute	--	24	22.18	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.56	--	24.34	22.18	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.98	dBm/1MHz	INFO
Ant:2 PSD	--	--	6.88	dBm/1MHz	INFO
Σ	--	11	10.48	dBm/1MHz	PASS

### Verdict

PASS

## # Message with SA scan ~

### References

TC start	24.07.2023 15:58:12
Ambit temp [°C]   humidity [rel%]	25.4   56
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_2A
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 15:58:12
Message	set WLAN5Gx to a_mode_U_NII_2A, Frequency [MHz] 5320

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:58:20
Ambit temp [°C]   humidity [rel%]	25.4   56
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	PS70

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	True   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI



## Test at TX 5320 MHz

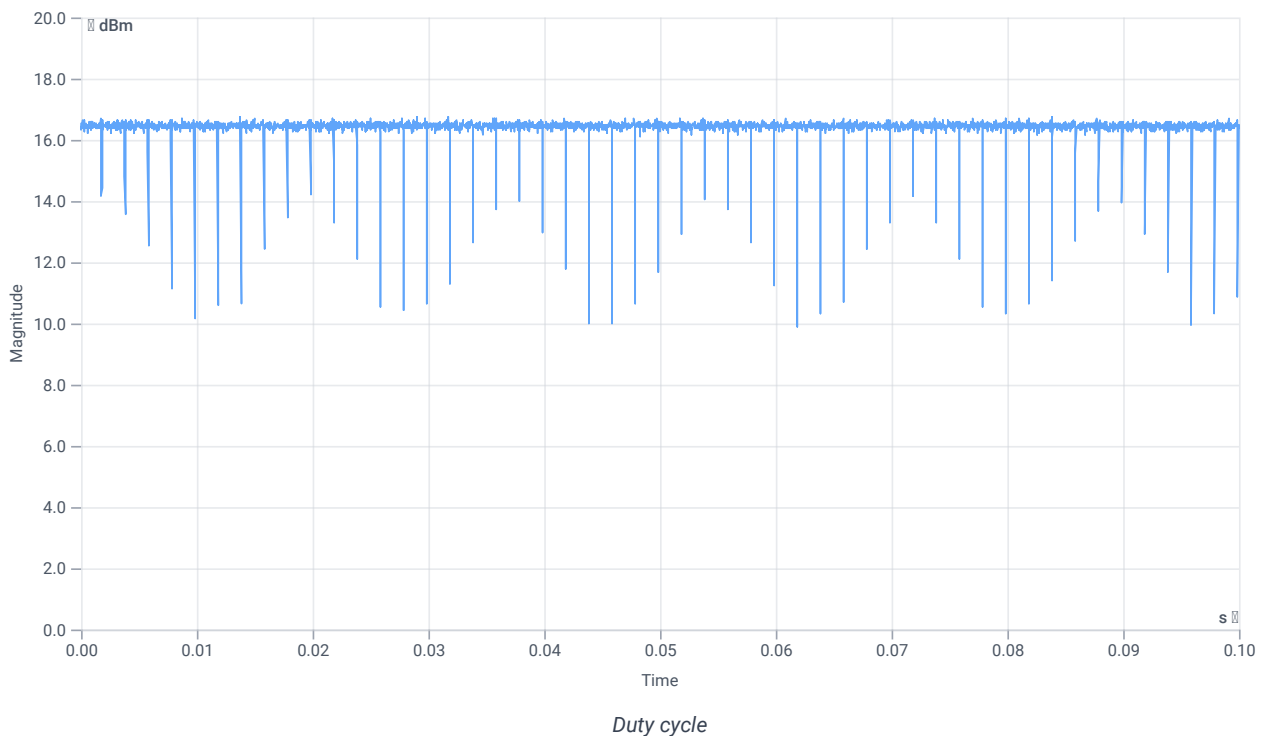
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.59	dBm	INFO
Ref. Frequency	--	--	5319.000	MHz	INFO

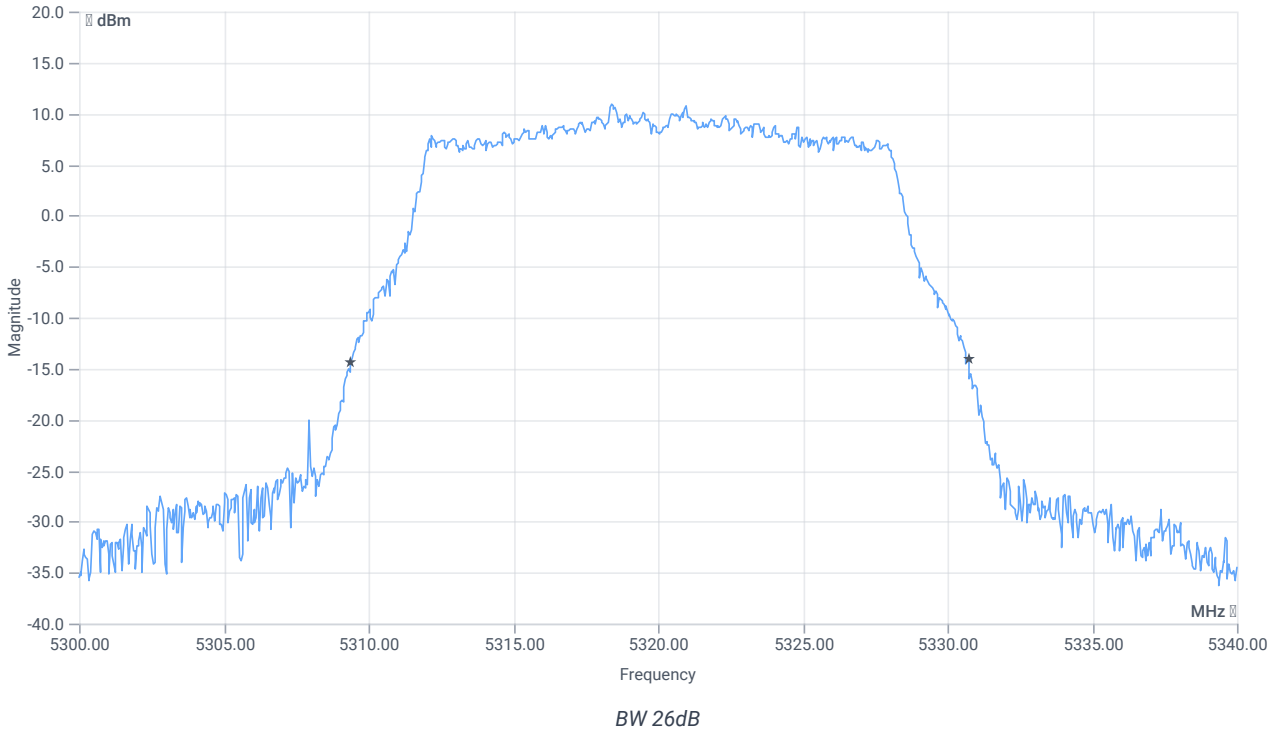
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



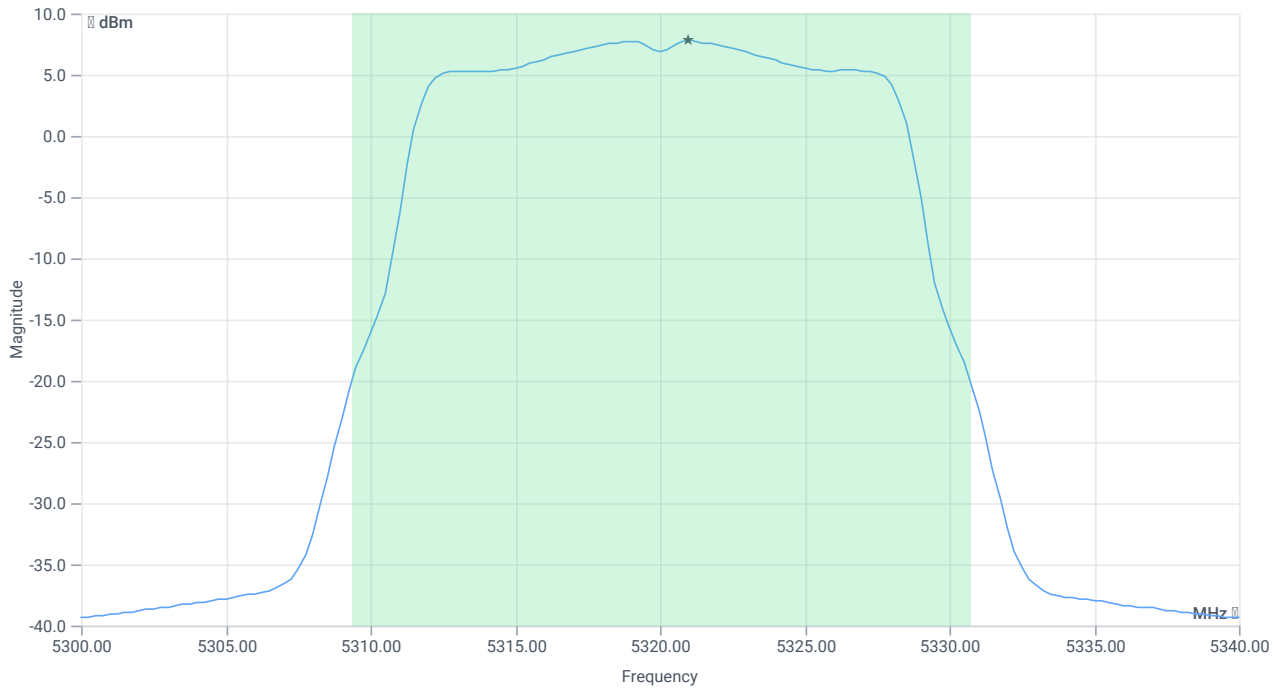
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.32	MHz	INFO
T1 26dB	---	---	5309.4000	MHz	INFO
T2 26dB	---	---	5330.7200	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.59   16.16   30
Start [MHz]   Stop [MHz]	5300.000   5340.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.3	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.3	dBm	PASS
Limit: 11 dBm + 10 log 21.32					
Max Output Power DC corrected	--	24.29	18.3	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.79	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.79	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 15:59:47
Ambit temp [°C]   humidity [rel%]	25.4   56
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Information	PS70

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	True   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

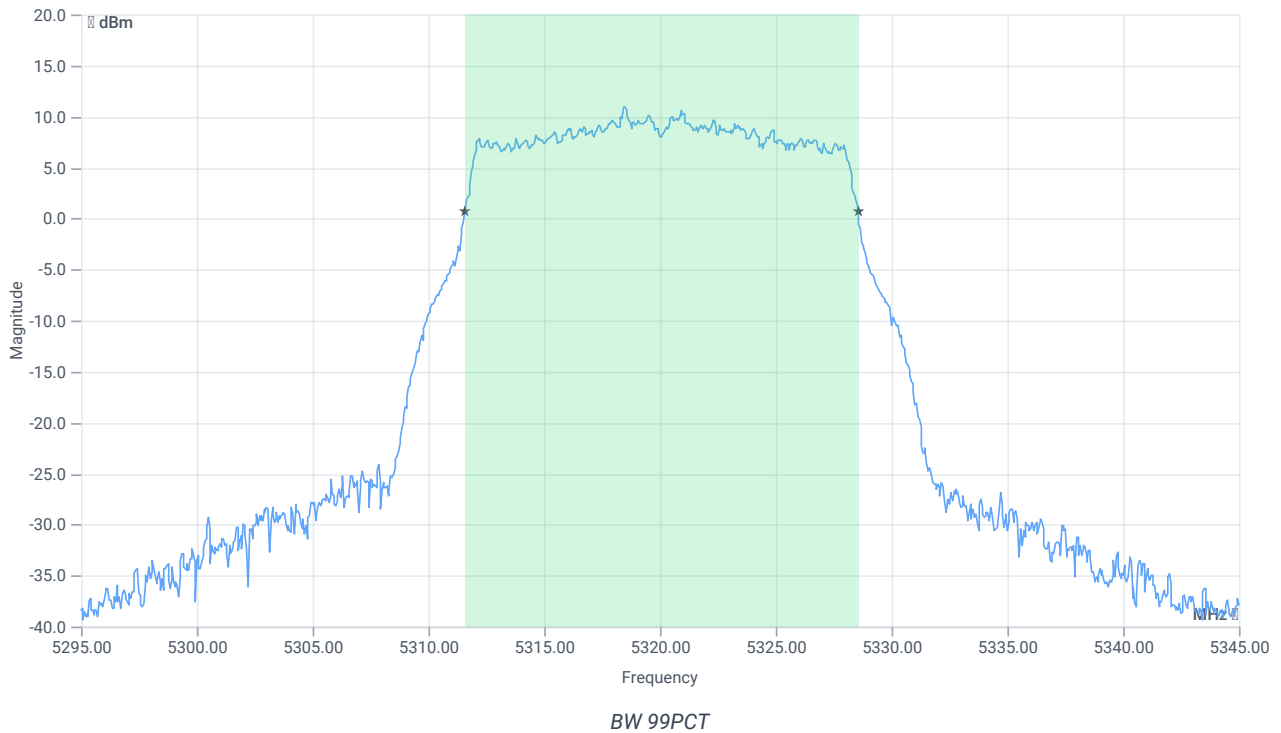
## Test at TX 5320 MHz

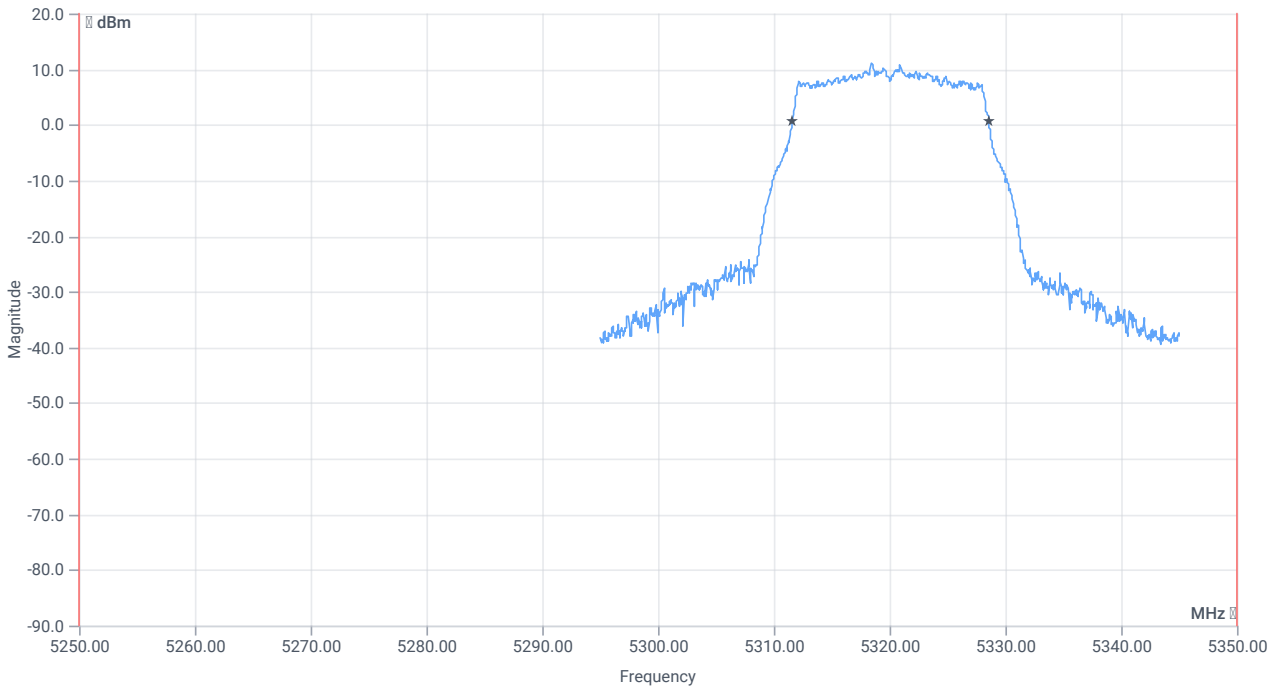
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.52	dBm	INFO
Ref. Frequency	--	--	5321.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.52   16.16   25
Start [MHz]   Stop [MHz]	5295.000   5345.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

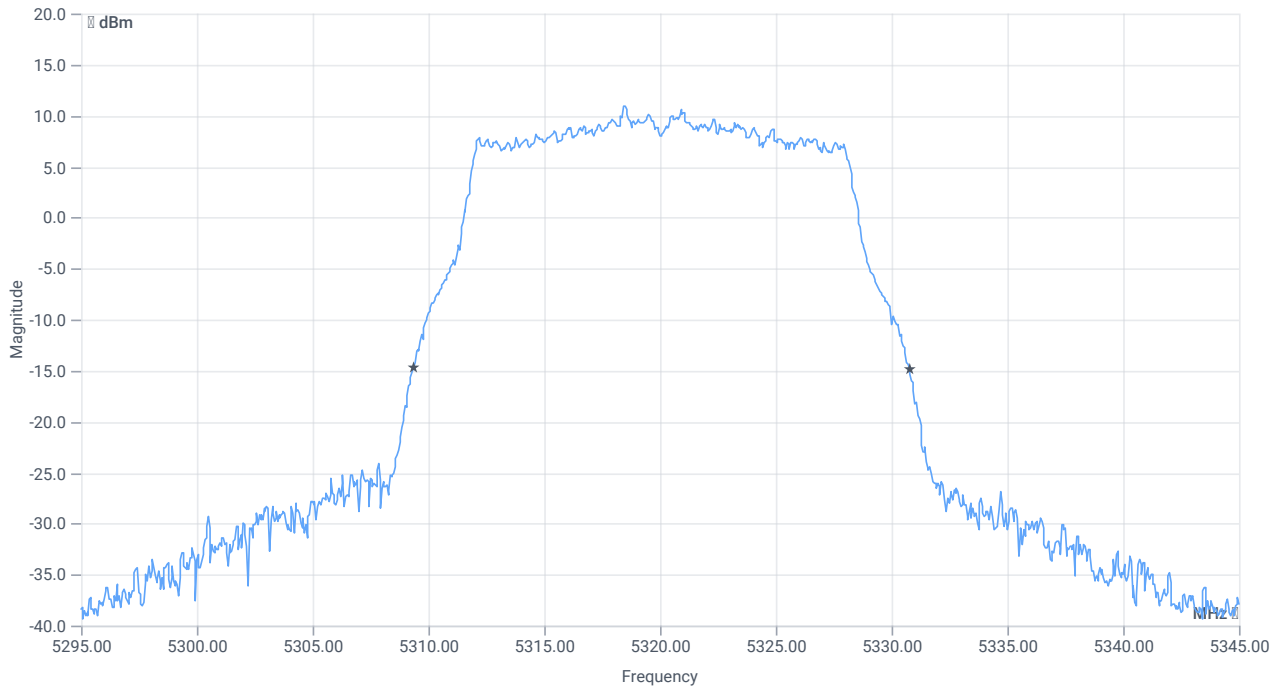




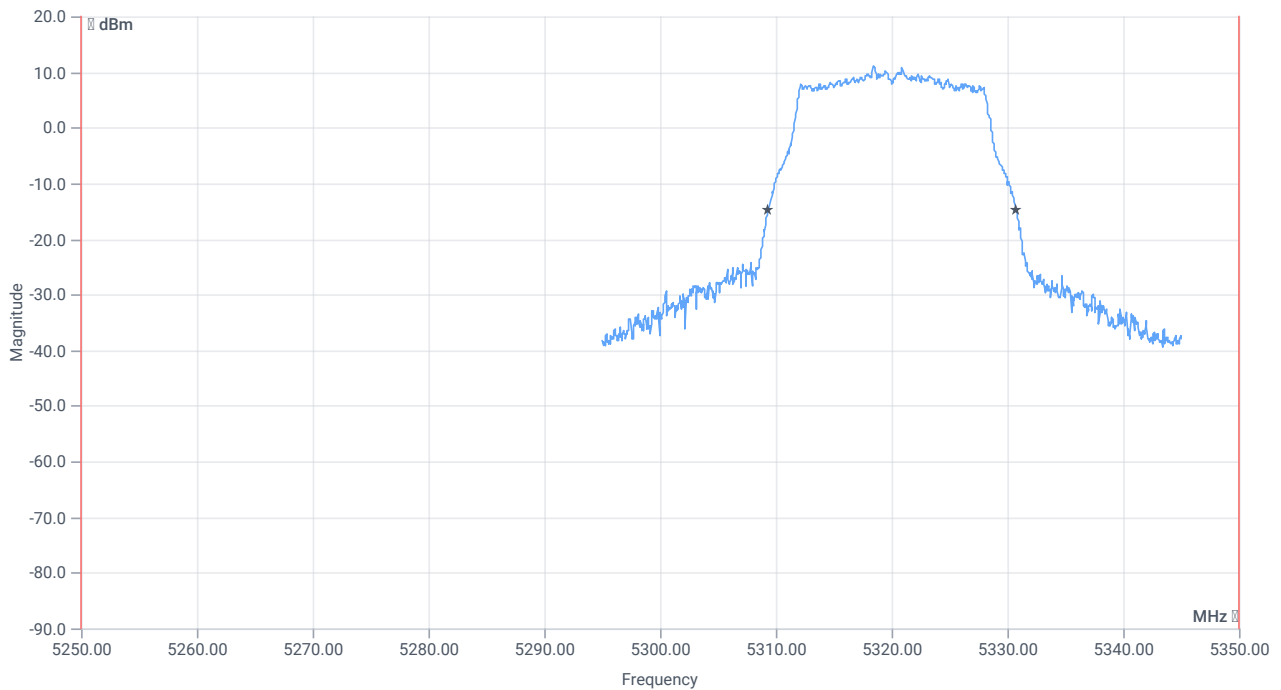
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	16.983	MHz	INFO
T1 99%	5250.000000	--	5311.5584	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5328.5415	MHz	PASS



*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.4	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5250.000000	--	5309.3500	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5330.7500	MHz	PASS

Verdict

PASS



## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 16:00:18
Ambit temp [°C]   humidity [rel%]	25.4   56
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	PS70

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	True   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5320 MHz

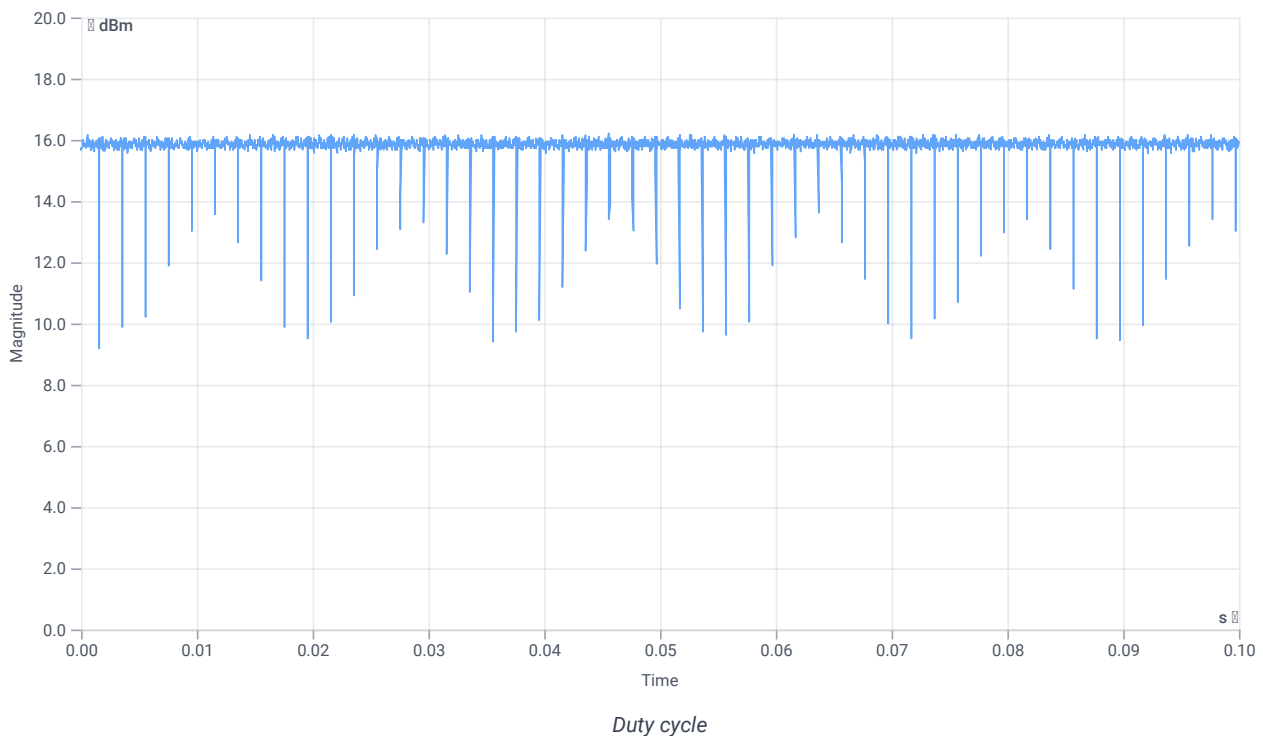
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.13	dBm	INFO
Ref. Frequency	--	--	5321.400	MHz	INFO

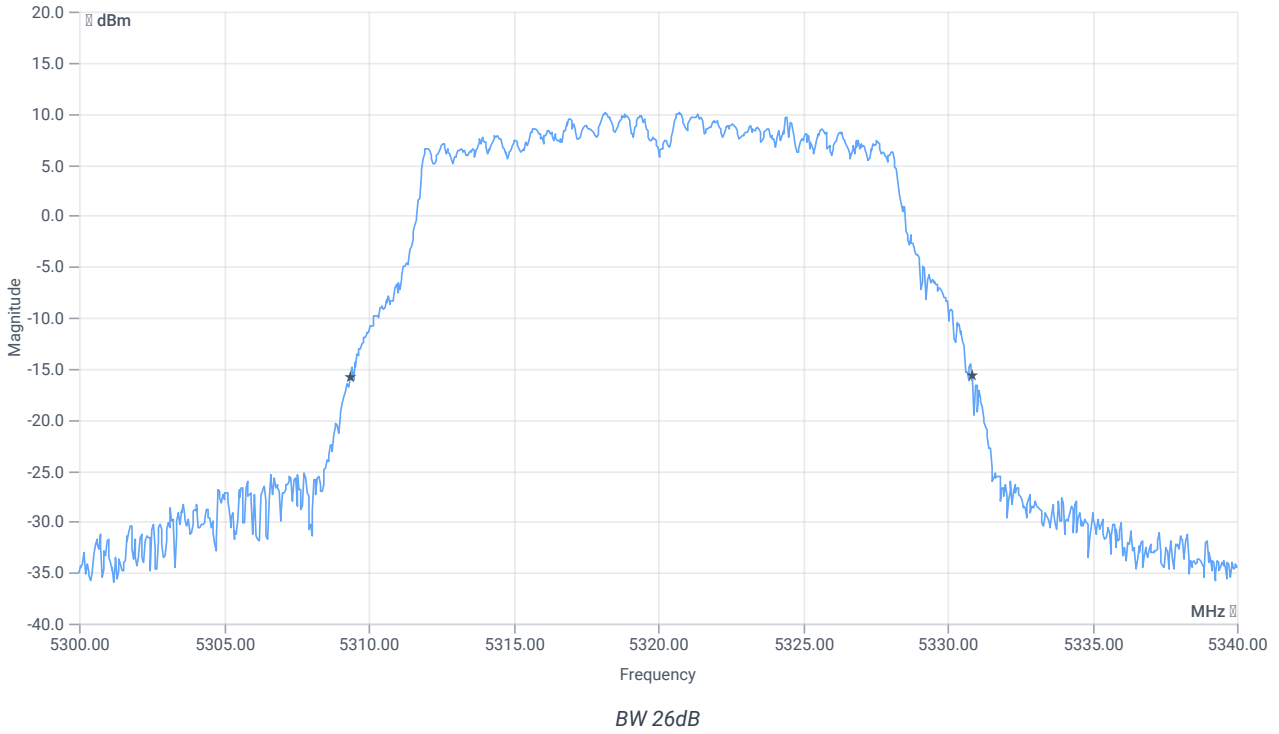
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



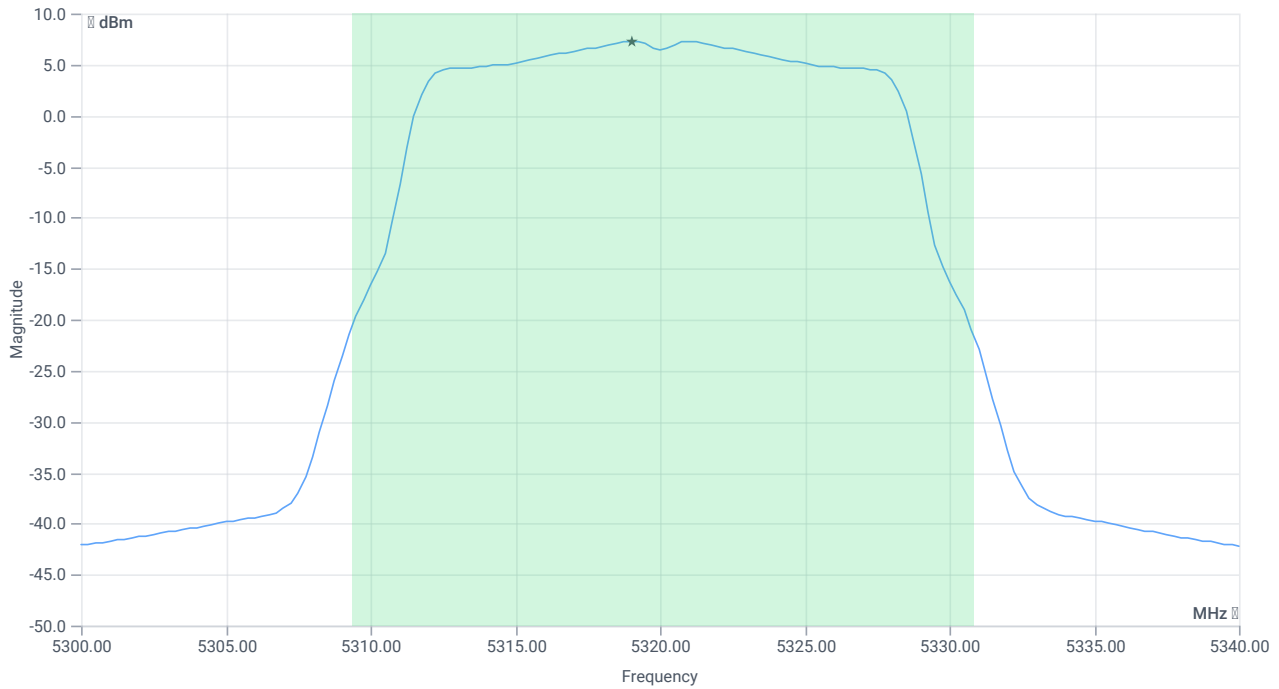
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.52	MHz	INFO
T1 26dB	---	---	5309.3600	MHz	INFO
T2 26dB	---	---	5330.8800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.13   16.16   25
Start [MHz]   Stop [MHz]	5300.000   5340.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	17.76	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	17.76	dBm	PASS
Limit: 11 dBm + 10 log 21.52					
Max Output Power DC corrected	--	24.33	17.76	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.31	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.31	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 16:01:45
Ambit temp [°C]   humidity [rel%]	25.4   56
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Information	PS70

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	True   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

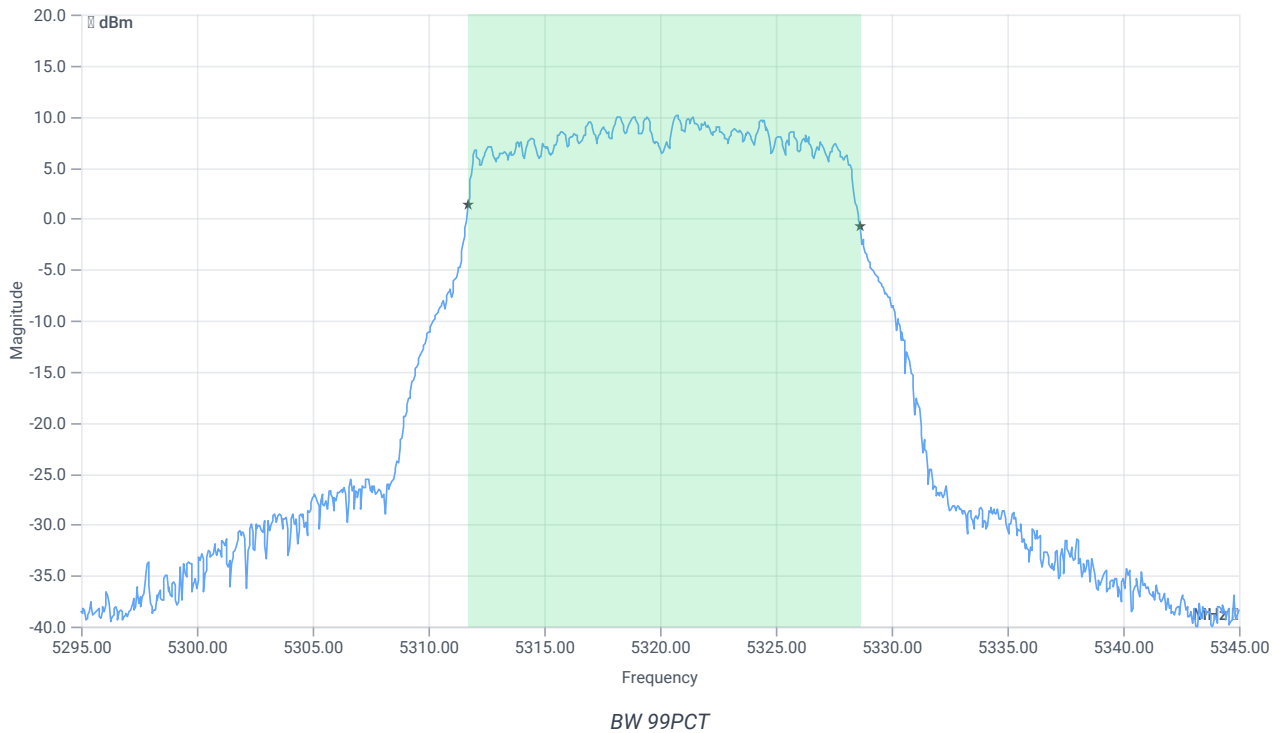
## Test at TX 5320 MHz

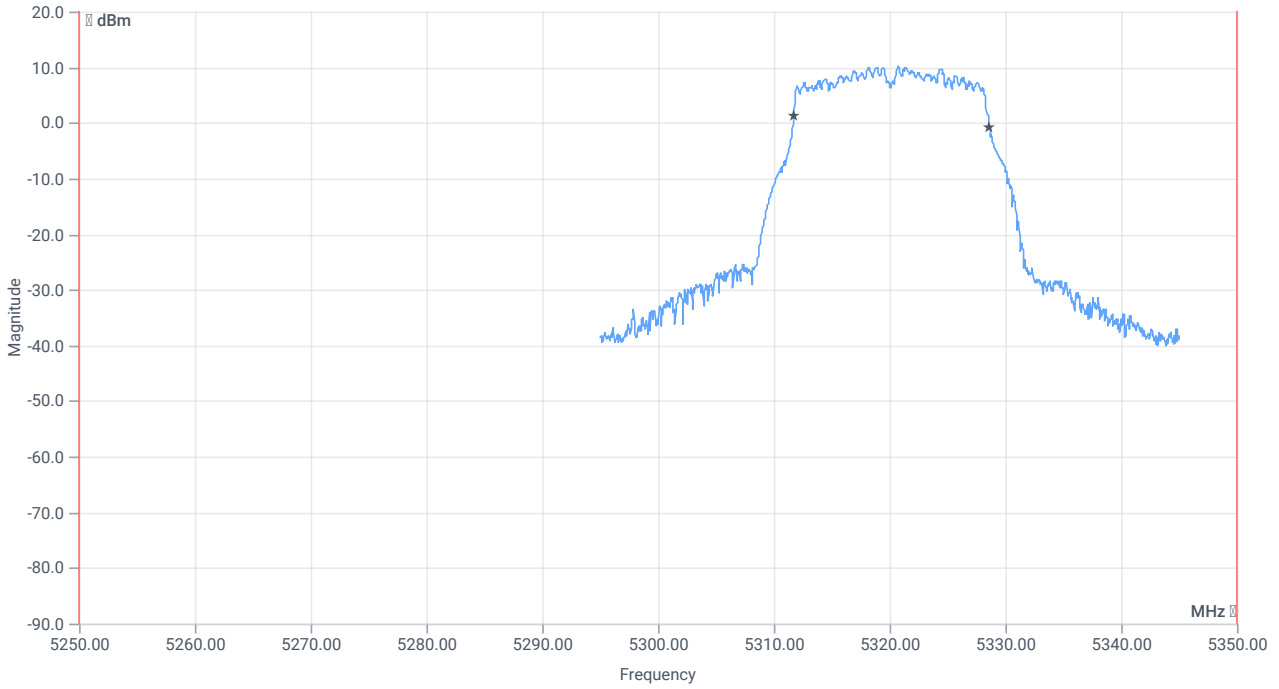
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.38	dBm	INFO
Ref. Frequency	--	--	5322.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.38   16.16   25
Start [MHz]   Stop [MHz]	5295.000   5345.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

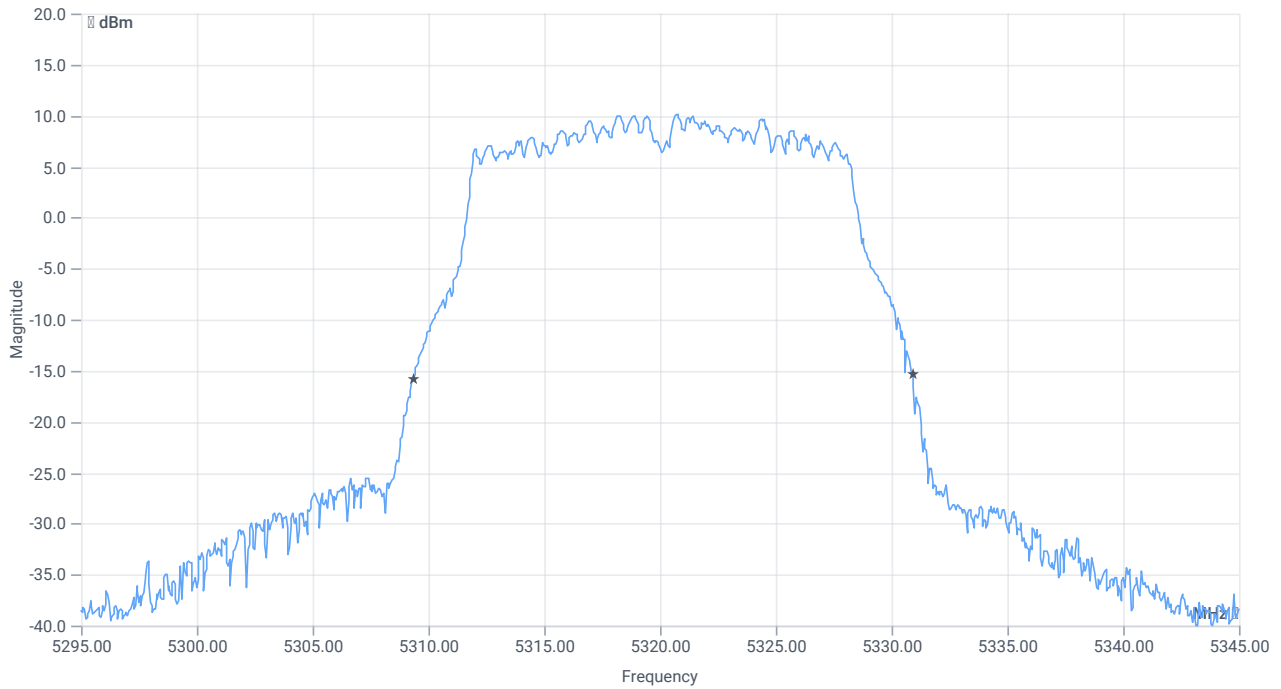




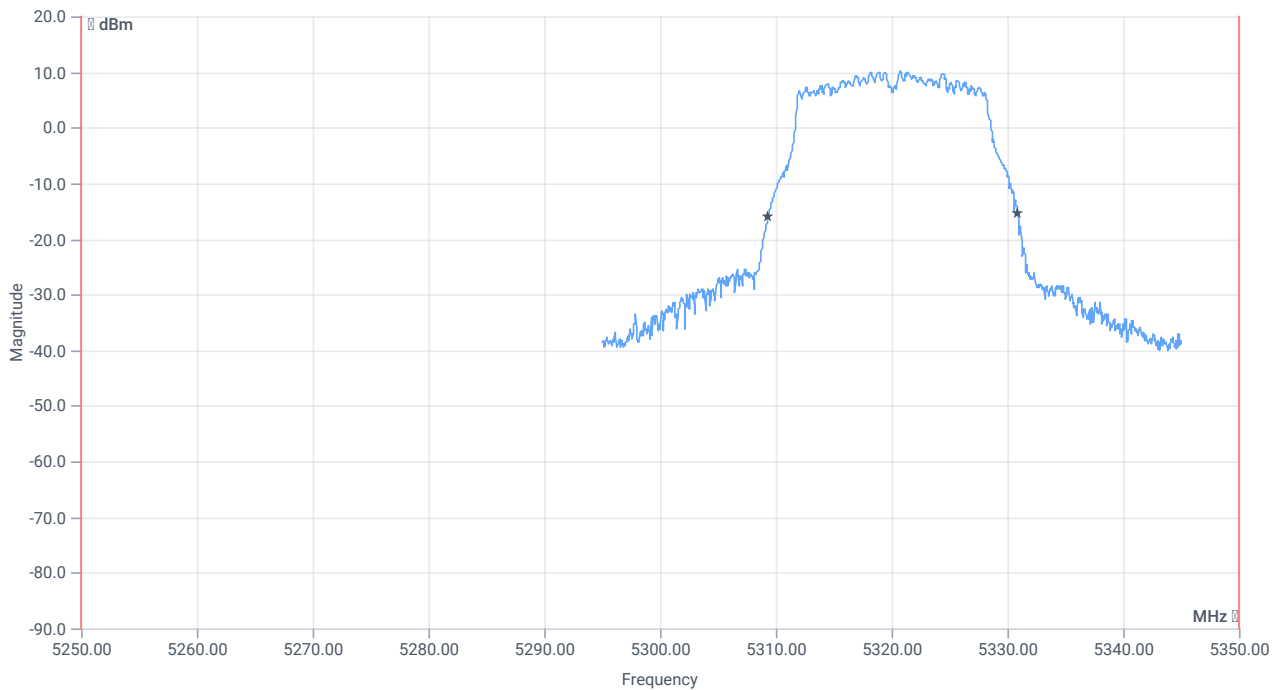
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	16.933	MHz	INFO
T1 99%	5250.000000	--	5311.7083	MHz	PASS since U-NII-1 is supported
T2 99%	--	5350.000000	5328.6414	MHz	PASS



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.55	MHz	INFO



**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5250.000000	--	5309.3500	MHz	PASS since U-NII-1 is supported
T2 26dB	--	5350.000000	5330.9000	MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### References

TC start	24.07.2023 16:02:16
Ambit temp [°C]   humidity [rel%]	25.4   56
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-2A
Information	PS70

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5280
Frequency high to test	True   Freq [MHz] 5320
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5320 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	18.3	dBm	INFO
Ant:1 BW 26dB	--	--	21.320	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	17.76	dBm	INFO
Ant:2 BW 26dB	--	--	21.520	MHz	INFO
Σ Limit absolute	--	24	21.05	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.32	--	24.29	21.05	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.79	dBm/1MHz	INFO
Ant:2 PSD	--	--	7.31	dBm/1MHz	INFO
Σ	--	11	10.57	dBm/1MHz	PASS

Verdict

PASS

## # Message with SA scan ~

### References

TC start	24.07.2023 10:41:48
Ambit temp [°C]   humidity [rel%]	24.8   50
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_2C
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 10:41:49
Message	set WLAN5Gx to a_mode_U_NII_2C, Frequency [MHz] 5500 ,

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 10:42:12
Ambit temp [°C]   humidity [rel%]	24.8   50
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	PS76

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5500 MHz

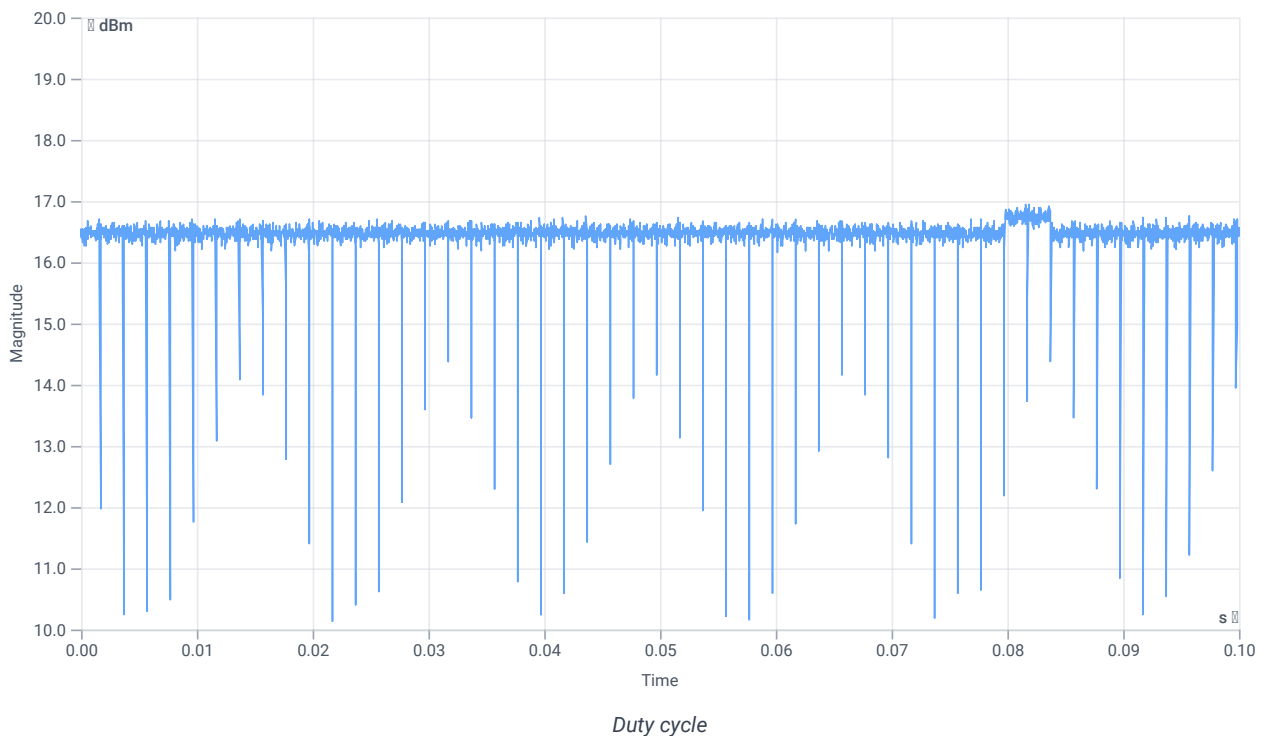
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.56	dBm	INFO
Ref. Frequency	--	--	5498.200	MHz	INFO

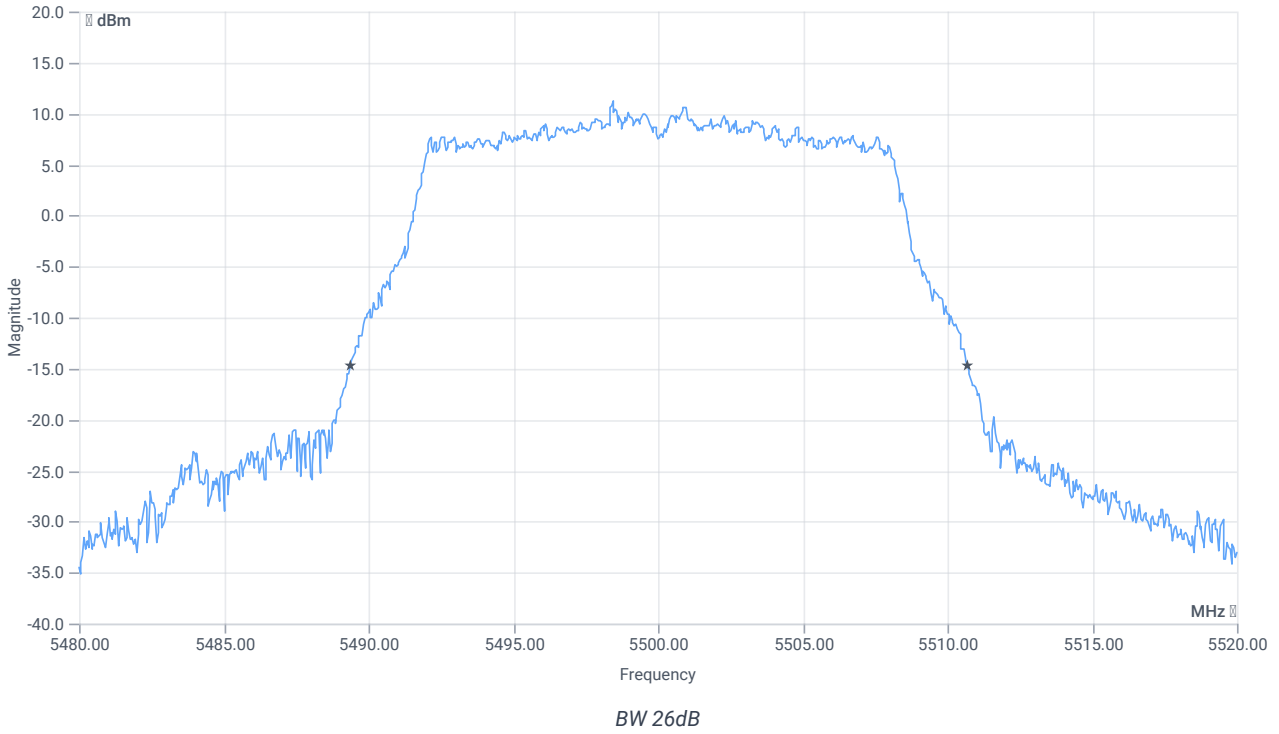
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



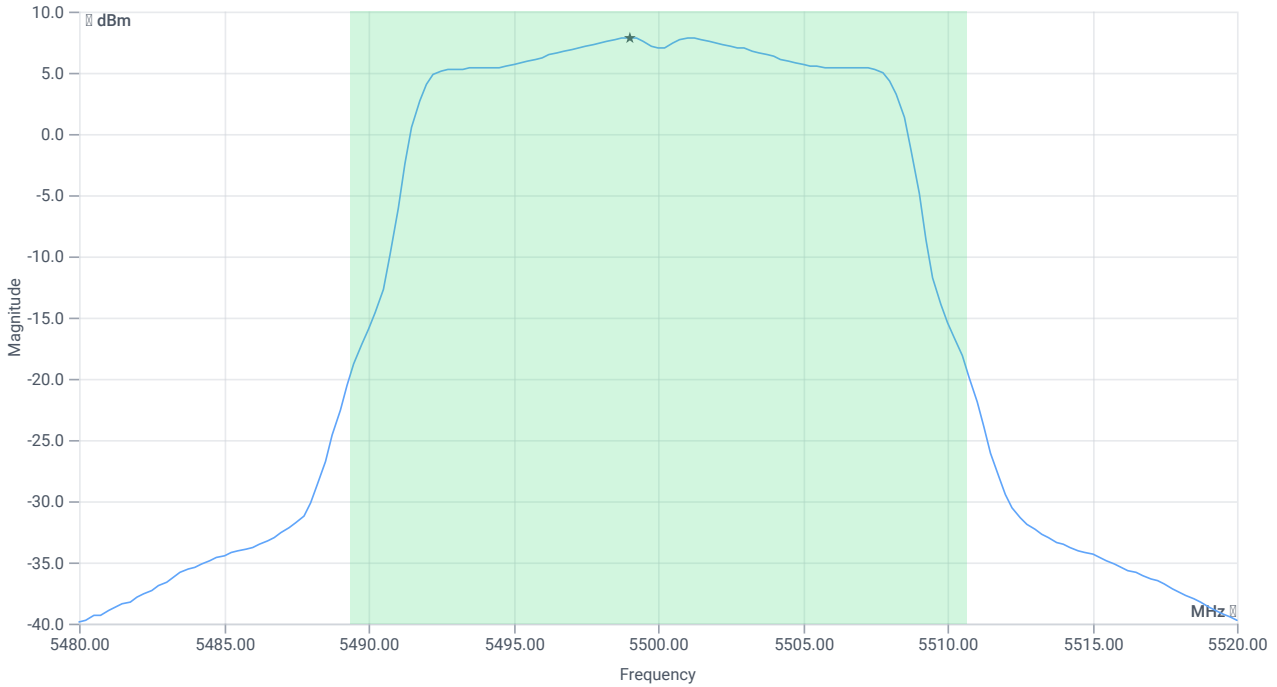
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.32	MHz	INFO
T1 26dB	---	---	5489.3600	MHz	INFO
T2 26dB	---	---	5510.6800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.56   16.59   25
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.38	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.38	dBm	PASS
Limit: 11 dBm + 10 log 21.32					
Max Output Power DC corrected	--	24.29	18.38	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.86	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.86	dBm/1MHz	PASS

### Verdict

PASS



## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 10:43:40
Ambit temp [°C]   humidity [rel%]	24.8   50
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Information	PS76

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

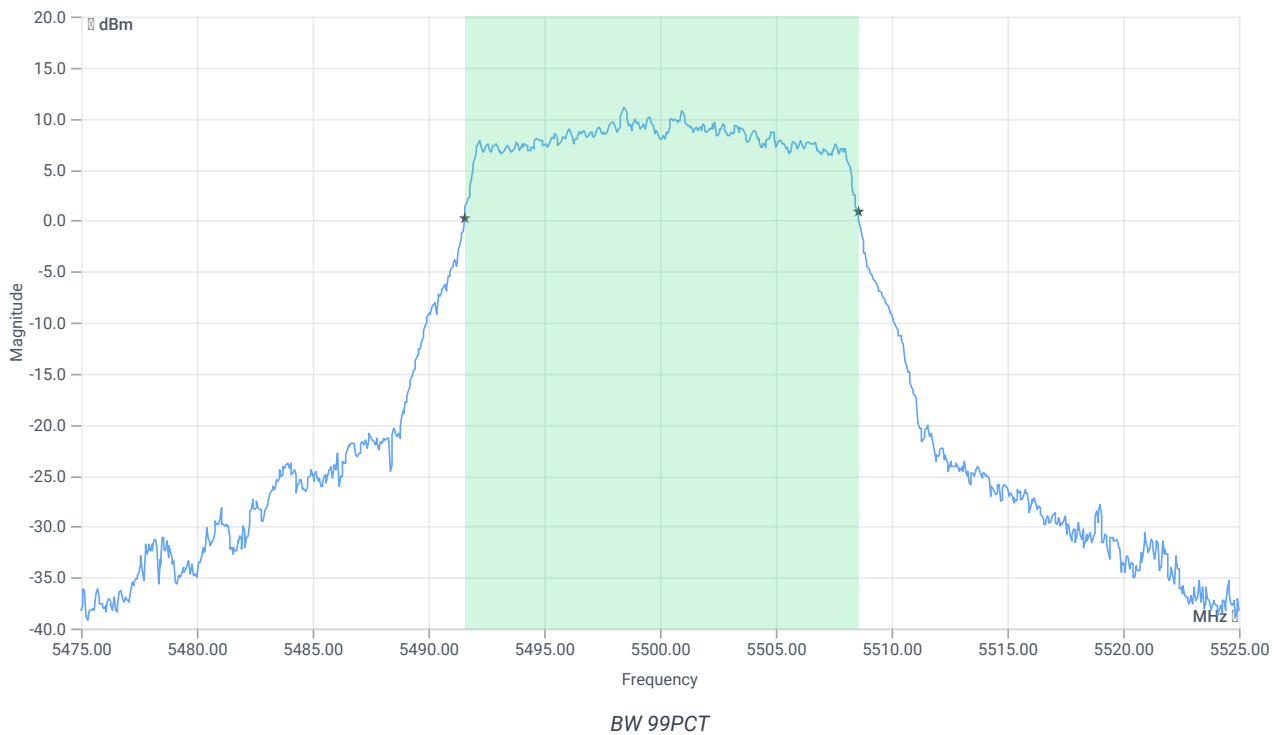
## Test at TX 5500 MHz

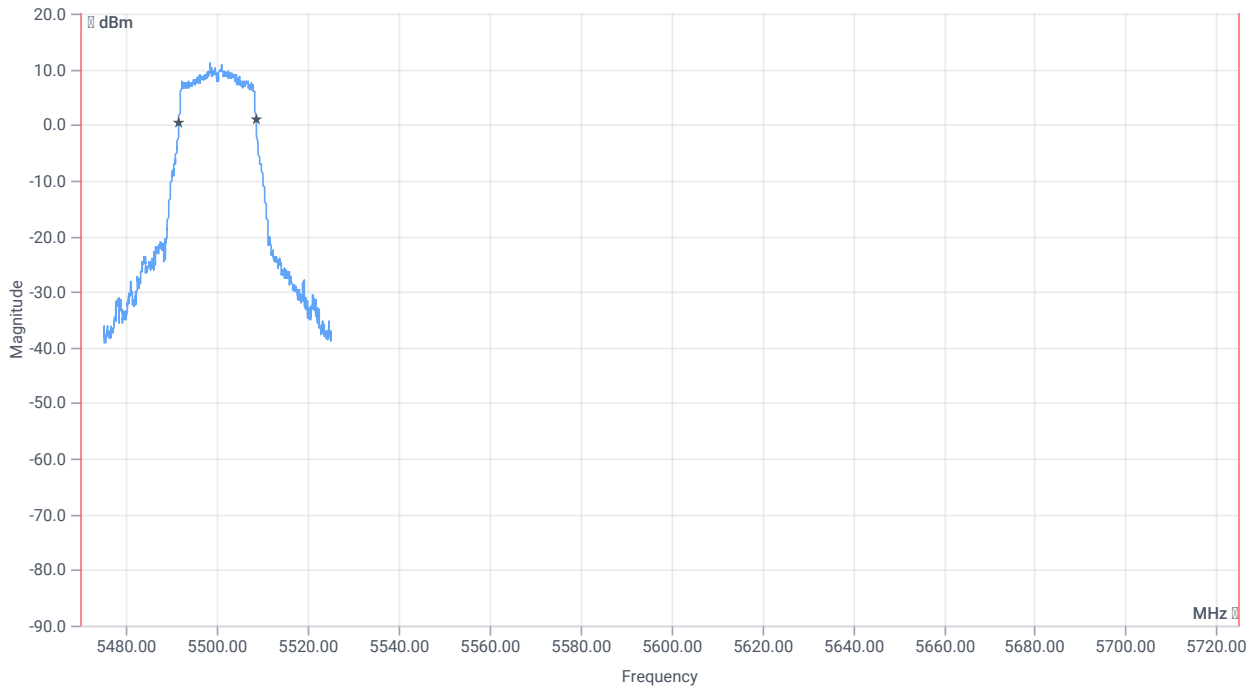
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.50	dBm	INFO
Ref. Frequency	--	--	5498.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.50   16.59   25
Start [MHz]   Stop [MHz]	5475.000   5525.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

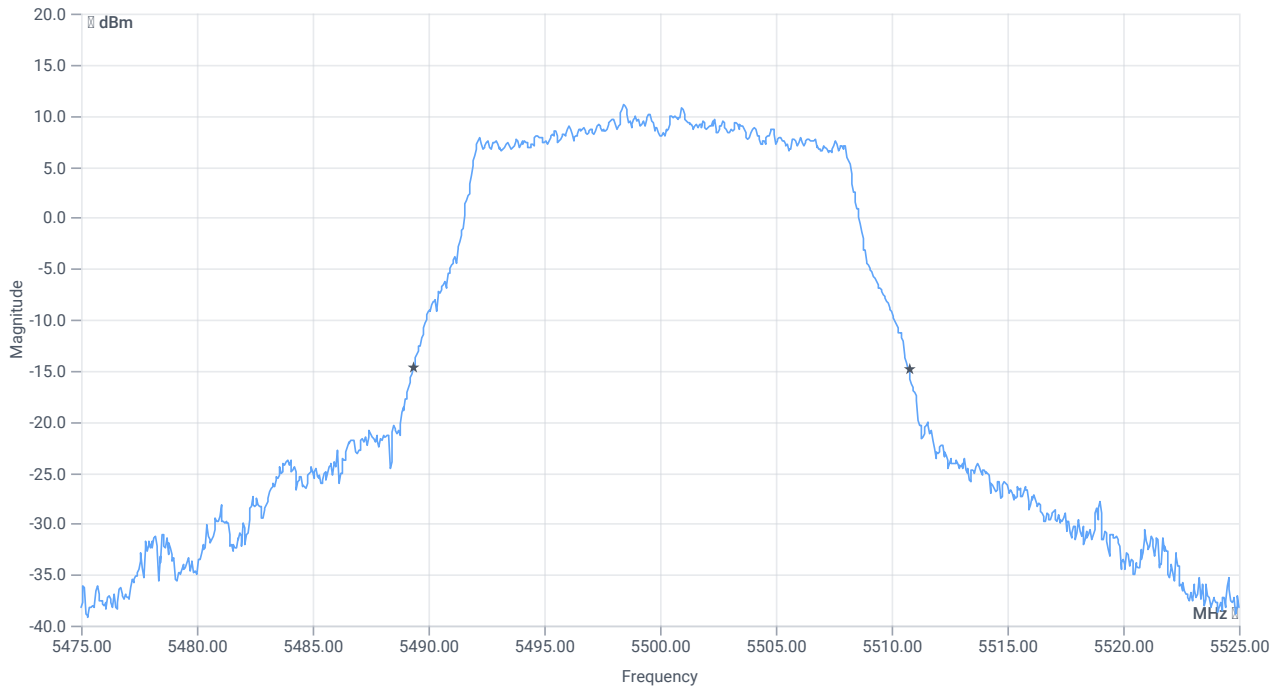




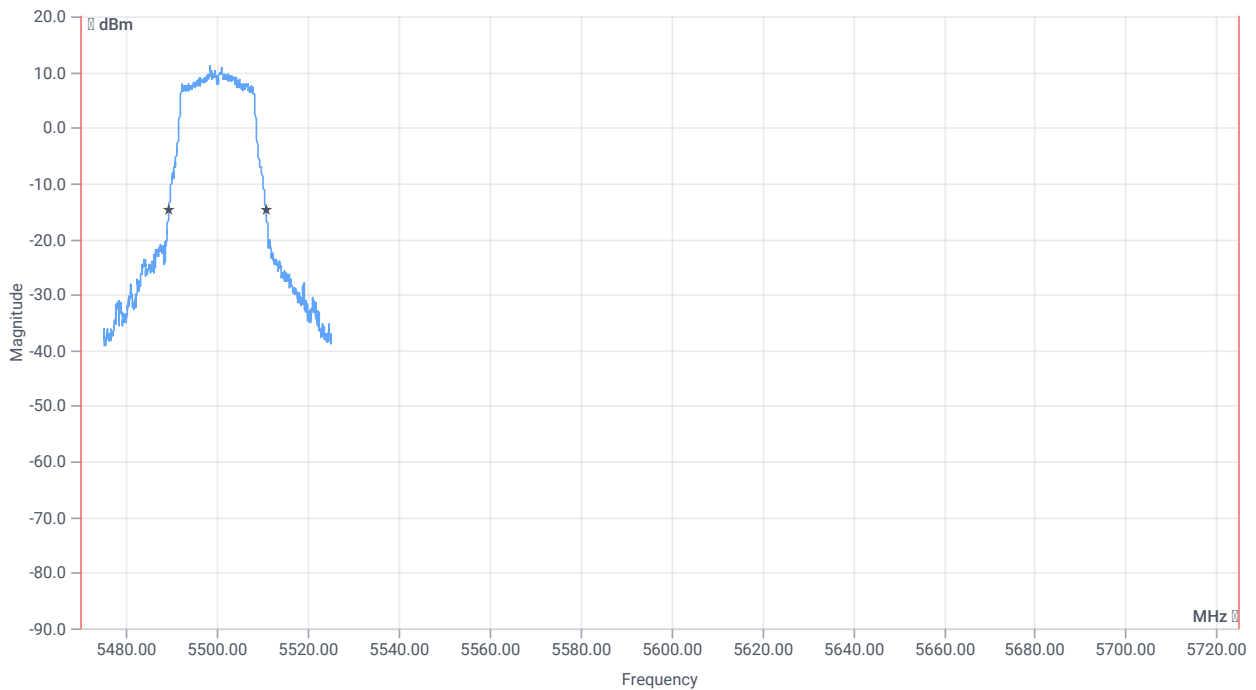
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	16.983	MHz	INFO
T1 99%	5470.000000	--	5491.5584	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5508.5415	MHz	



*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.4	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5489.3500	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5510.7500	MHz	

Verdict

**PASS**

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 10:44:11
Ambit temp [°C]   humidity [rel%]	24.7   50
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5720
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5500 MHz

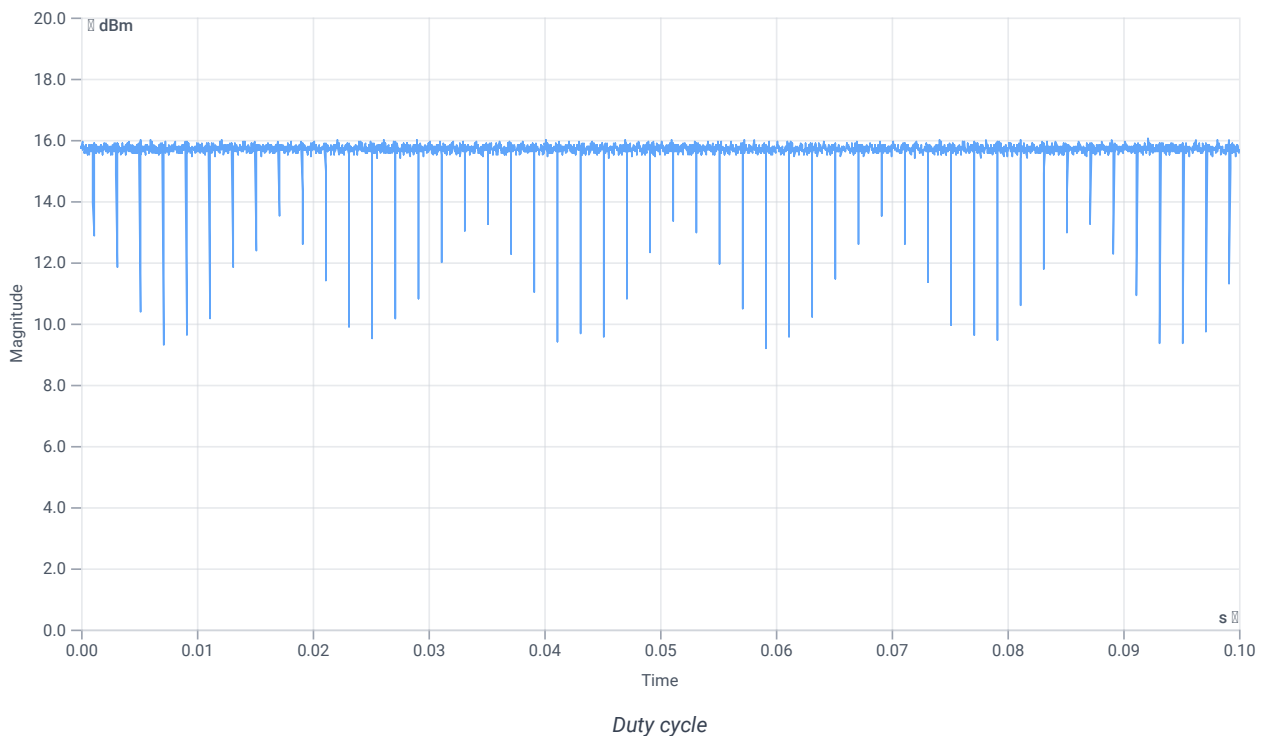
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.49	dBm	INFO
Ref. Frequency	--	--	5498.400	MHz	INFO

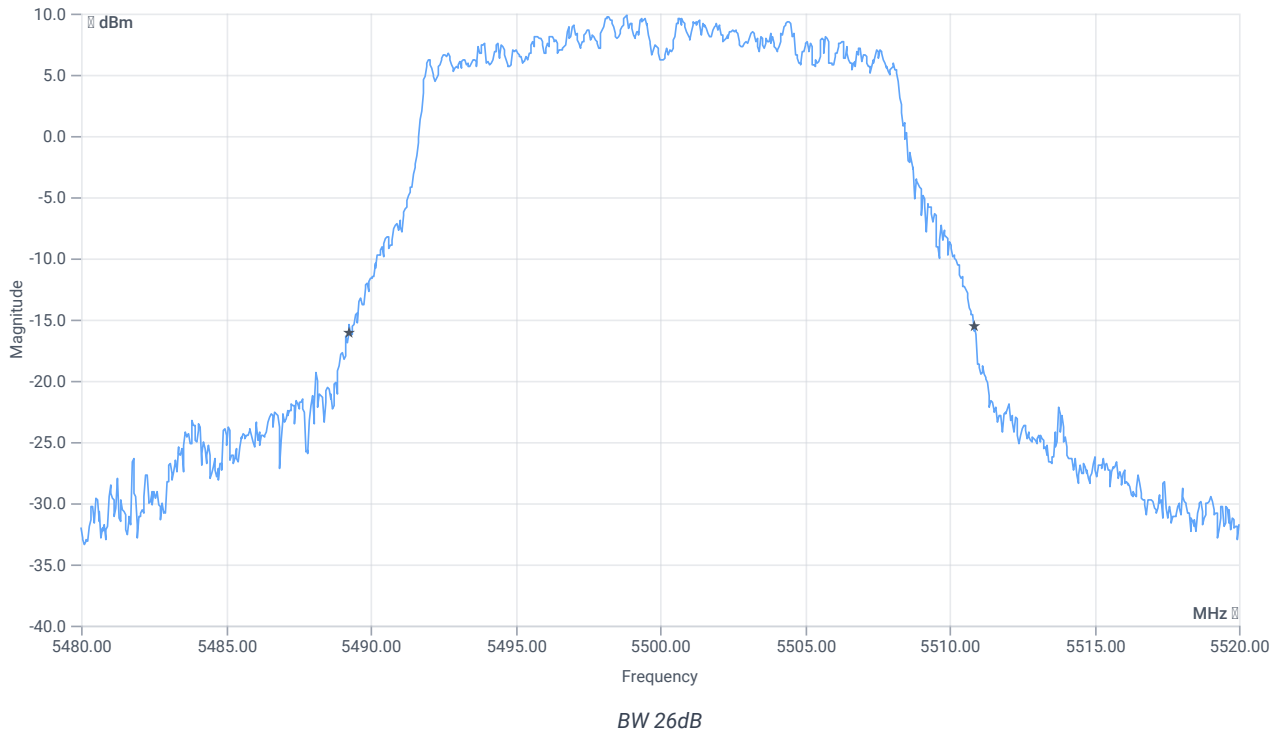
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



## RESULT

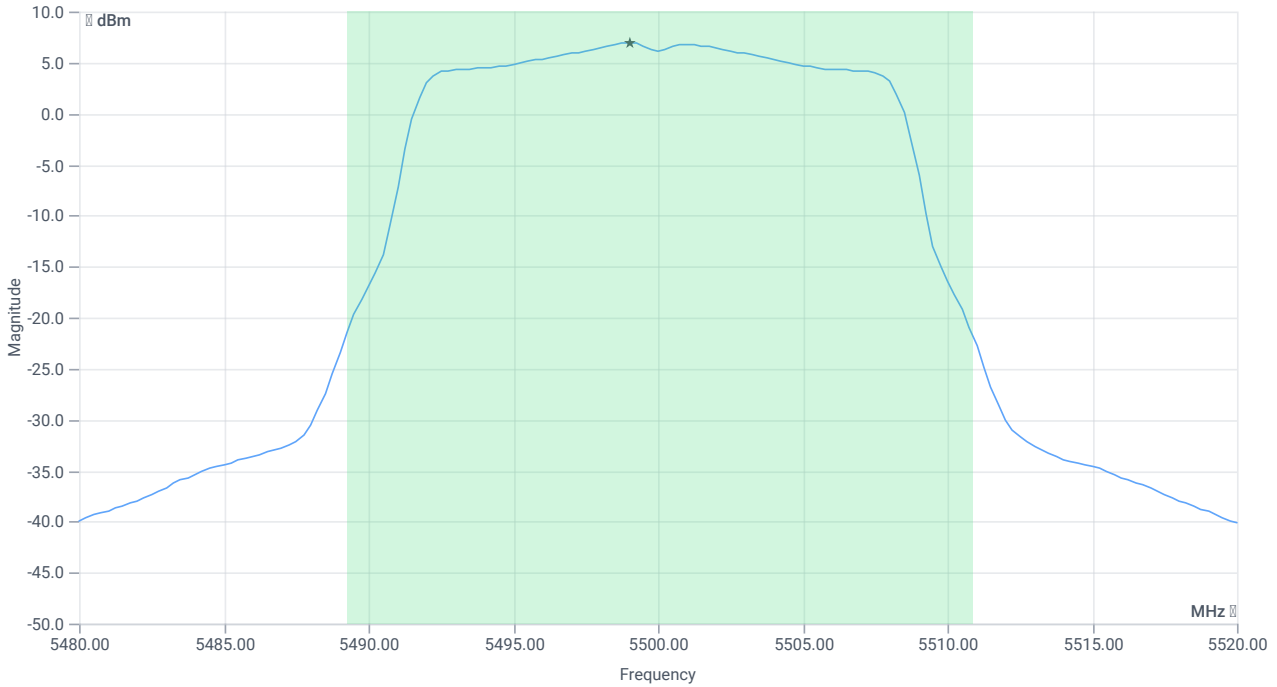
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.64	MHz	INFO
T1 26dB	---	---	5489.2400	MHz	INFO
T2 26dB	---	---	5510.8800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.49   16.59   25
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE





Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	17.38	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	17.38	dBm	PASS
Limit: 11 dBm + 10 log 21.64					
Max Output Power DC corrected	--	24.35	17.38	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	6.97	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	6.97	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 10:45:38
Ambit temp [°C]   humidity [rel%]	24.7   50
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

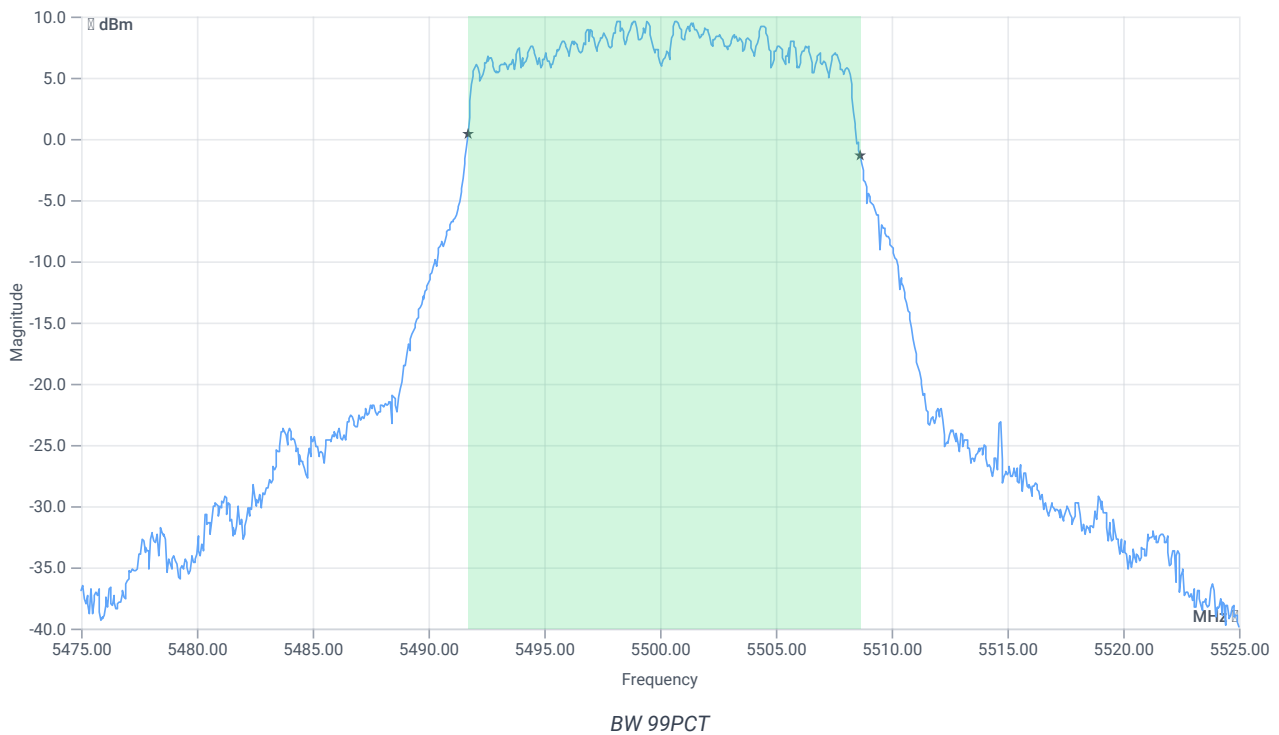
## Test at TX 5500 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	14.81	dBm	INFO
Ref. Frequency	--	--	5497.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.81   16.59   25
Start [MHz]   Stop [MHz]	5475.000   5525.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

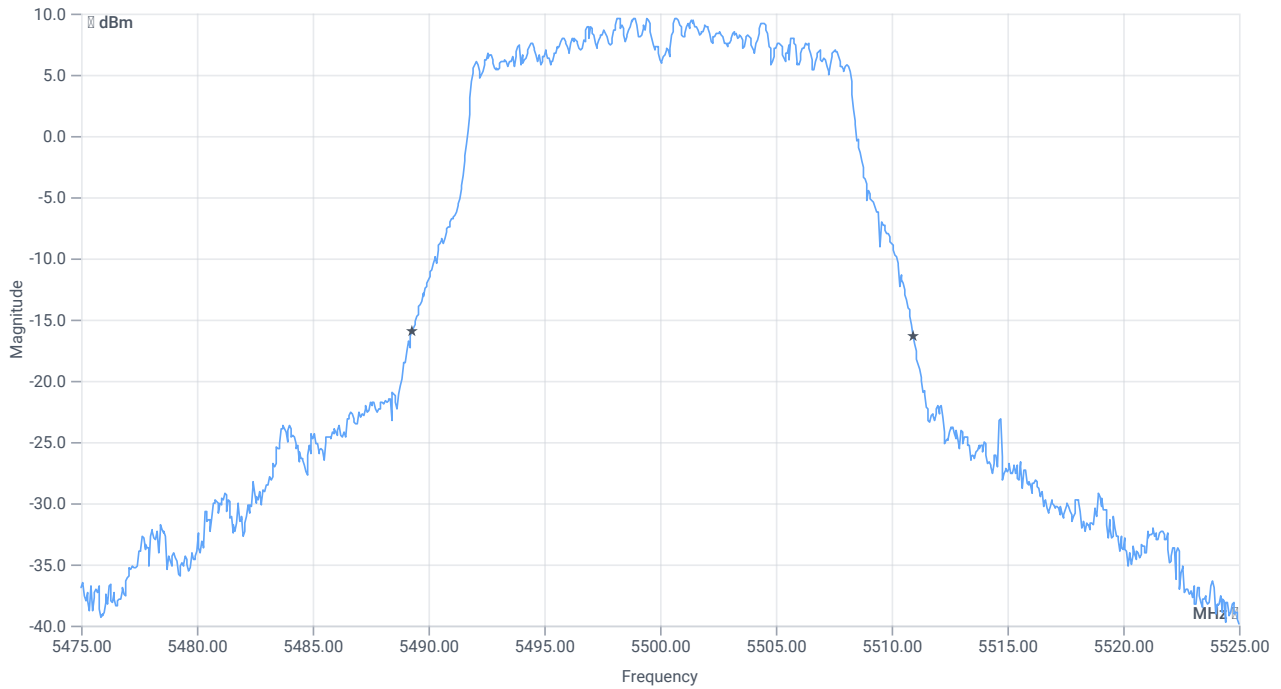




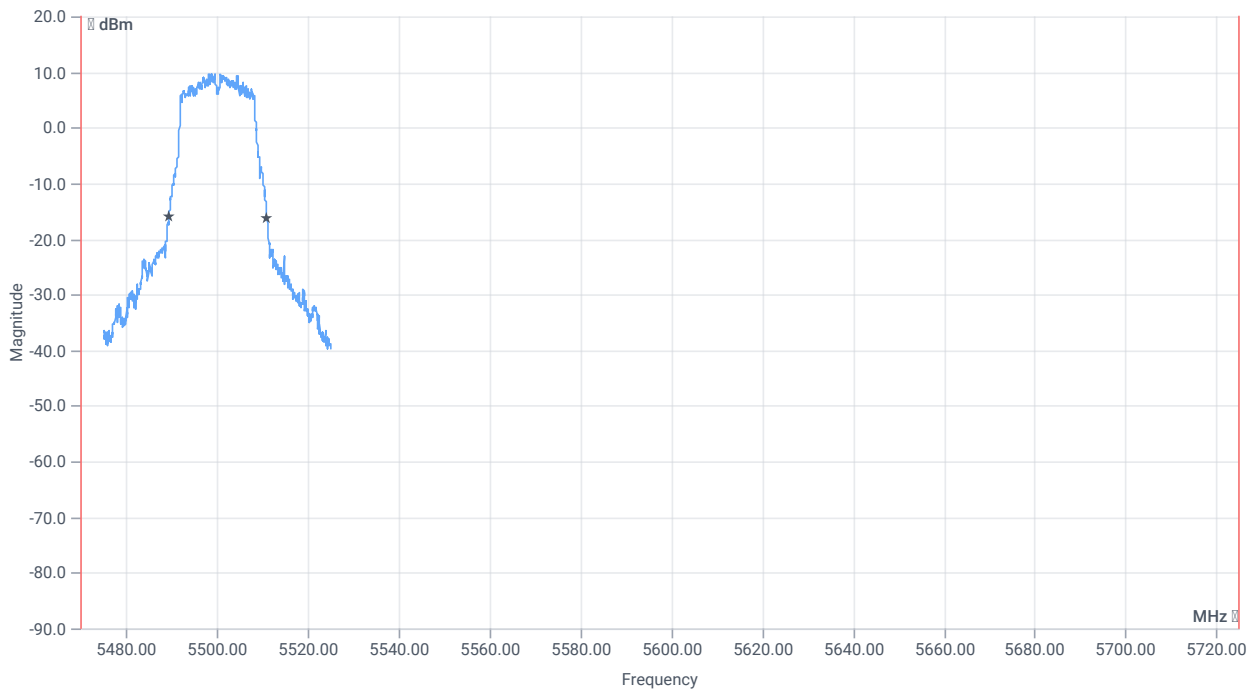
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	16.933	MHz	INFO
T1 99%	5470.000000	--	5491.7083	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5508.6414	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.65	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5489.3000	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5510.9500	MHz	

Verdict

**PASS**

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 10:46:09
Ambit temp [°C]   humidity [rel%]	24.7   50
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-2C
Information	76

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5500 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	18.38	dBm	INFO
Ant:1 BW 26dB	--	--	21.320	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	17.38	dBm	INFO
Ant:2 BW 26dB	--	--	21.640	MHz	INFO
Σ Limit absolute	--	24	20.92	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.32	--	24.29	20.92	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.86	dBm/1MHz	INFO
Ant:2 PSD	--	--	6.97	dBm/1MHz	INFO
Σ	--	11	10.45	dBm/1MHz	PASS

Verdict

PASS



## # Message with SA scan ~

### References

TC start	24.07.2023 11:25:27
Ambit temp [°C]   humidity [rel%]	24.6   51
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_2C
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 11:25:28
Message	set WLAN5Gx to a_mode_U_NII_2C, Frequency [MHz] 5600 ,

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 11:25:53
Ambit temp [°C]   humidity [rel%]	24.6   51
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5600 MHz

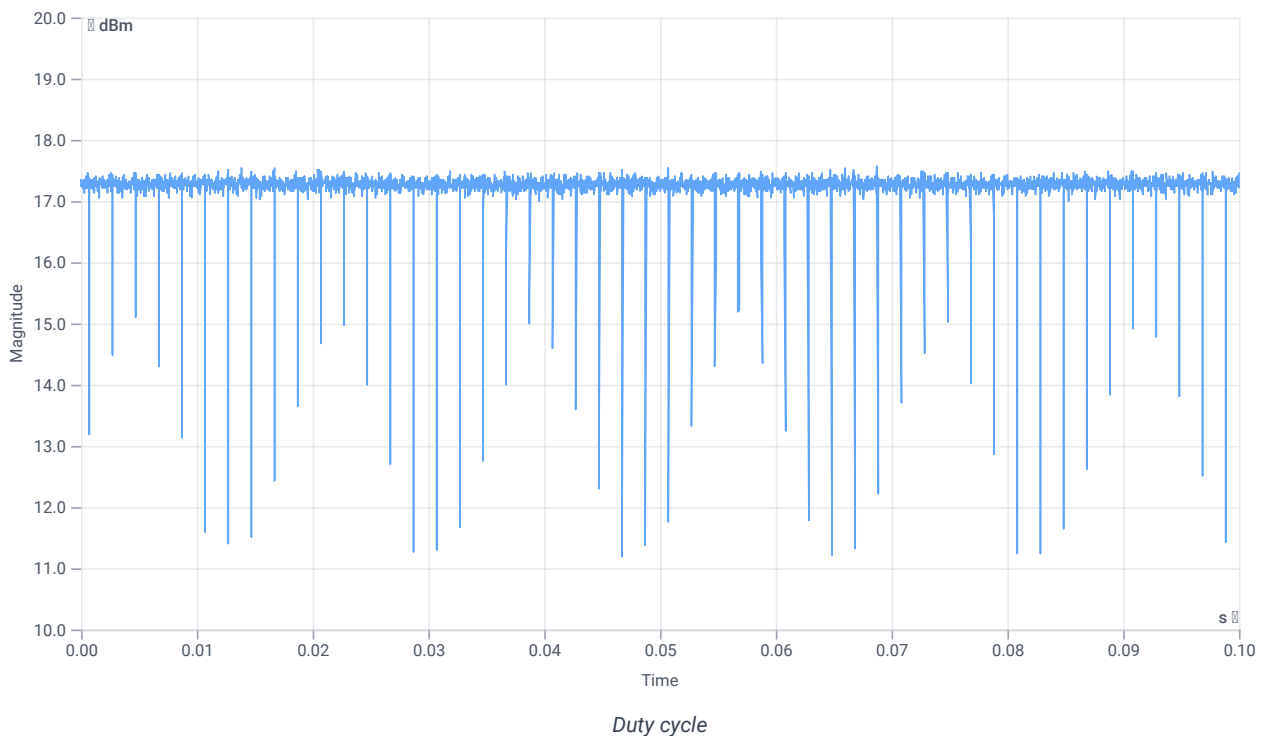
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.94	dBm	INFO
Ref. Frequency	--	--	5597.600	MHz	INFO

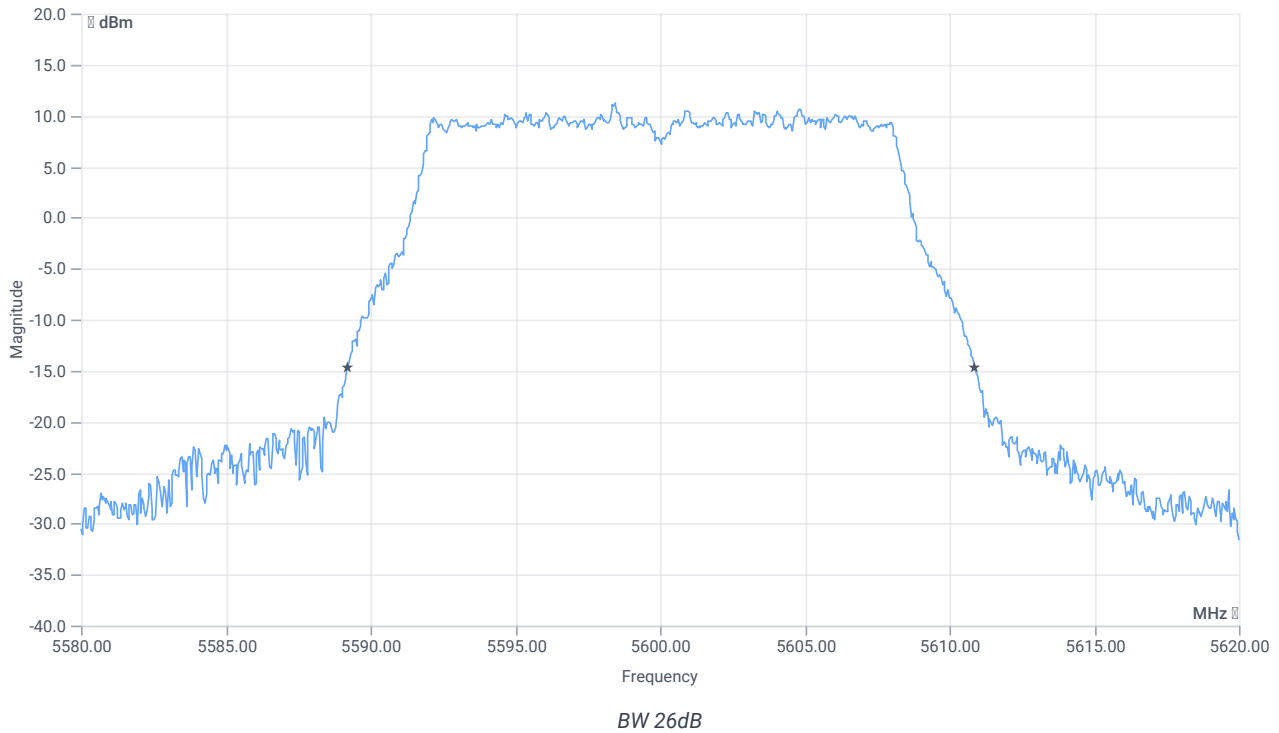
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



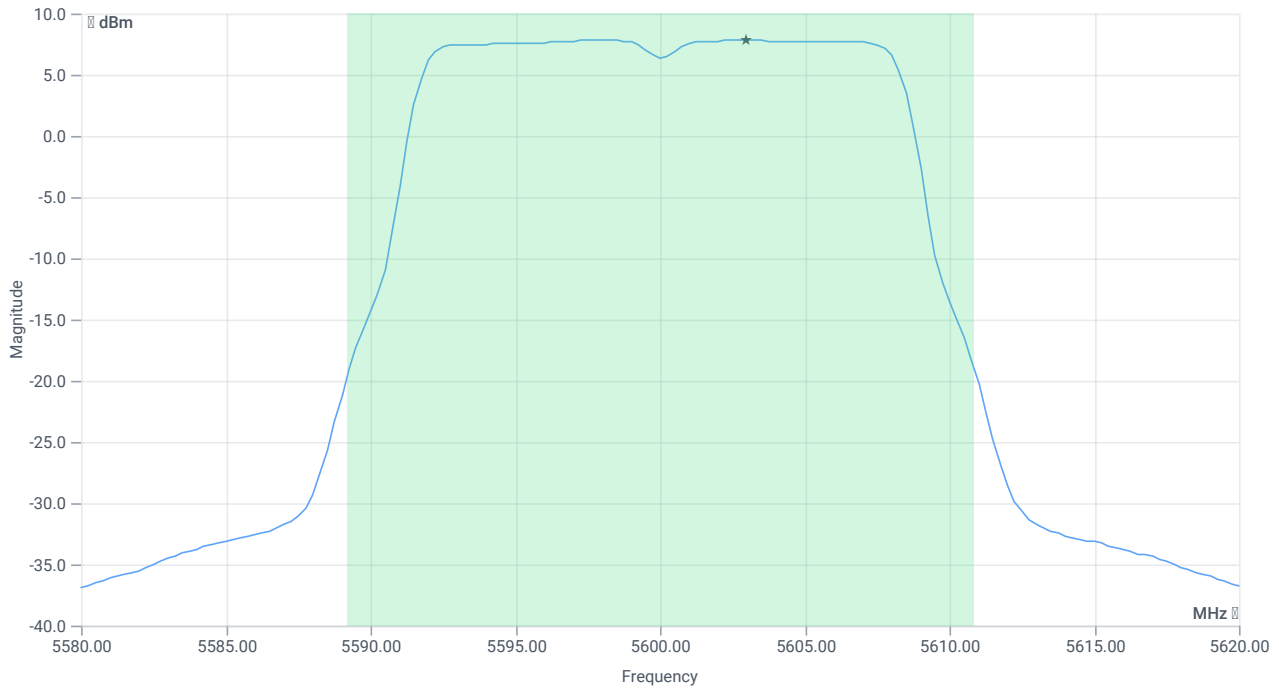
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.68	MHz	INFO
T1 26dB	---	---	5589.2000	MHz	INFO
T2 26dB	---	---	5610.8800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.94   16.64   30
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	19.5	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.5	dBm	PASS
Limit: 11 dBm + 10 log 21.68					
Max Output Power DC corrected	--	24.36	19.5	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.81	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.81	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 11:27:19
Ambit temp [°C]   humidity [rel%]	24.6   51
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

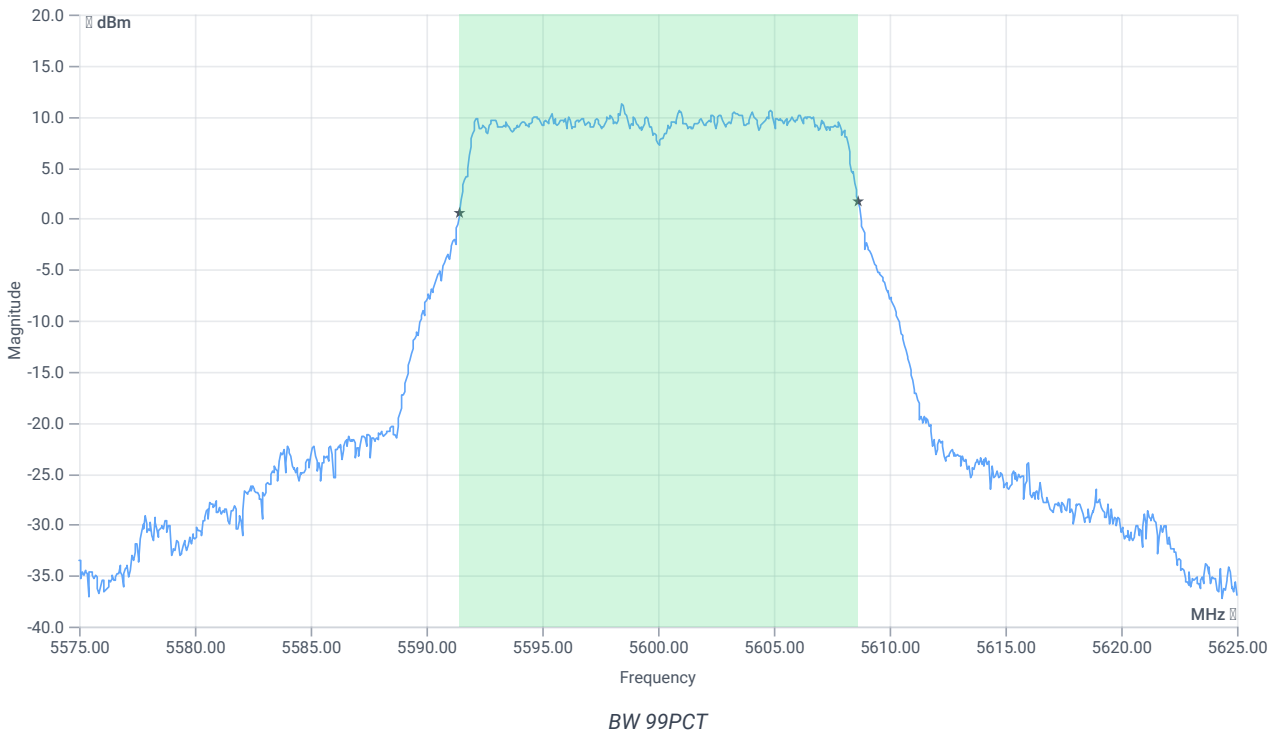
### Test at TX 5600 MHz

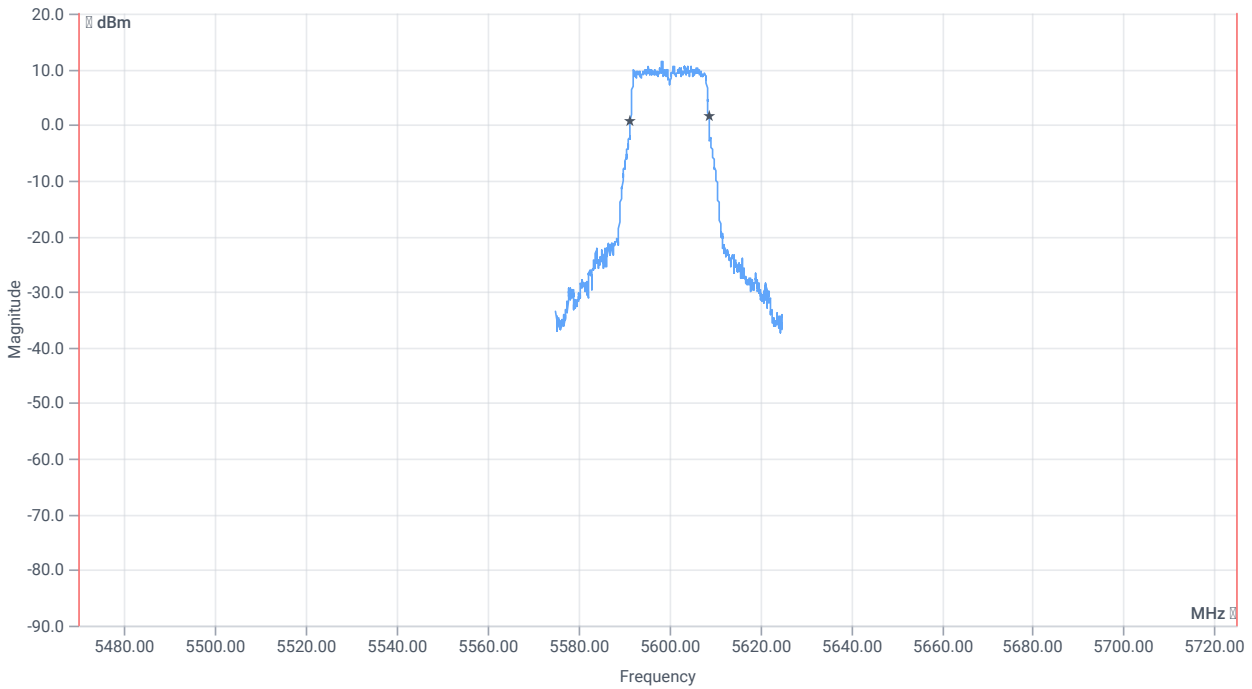
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.59	dBm	INFO
Ref. Frequency	--	--	5595.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.59   16.64   25
Start [MHz]   Stop [MHz]	5575.000   5625.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE



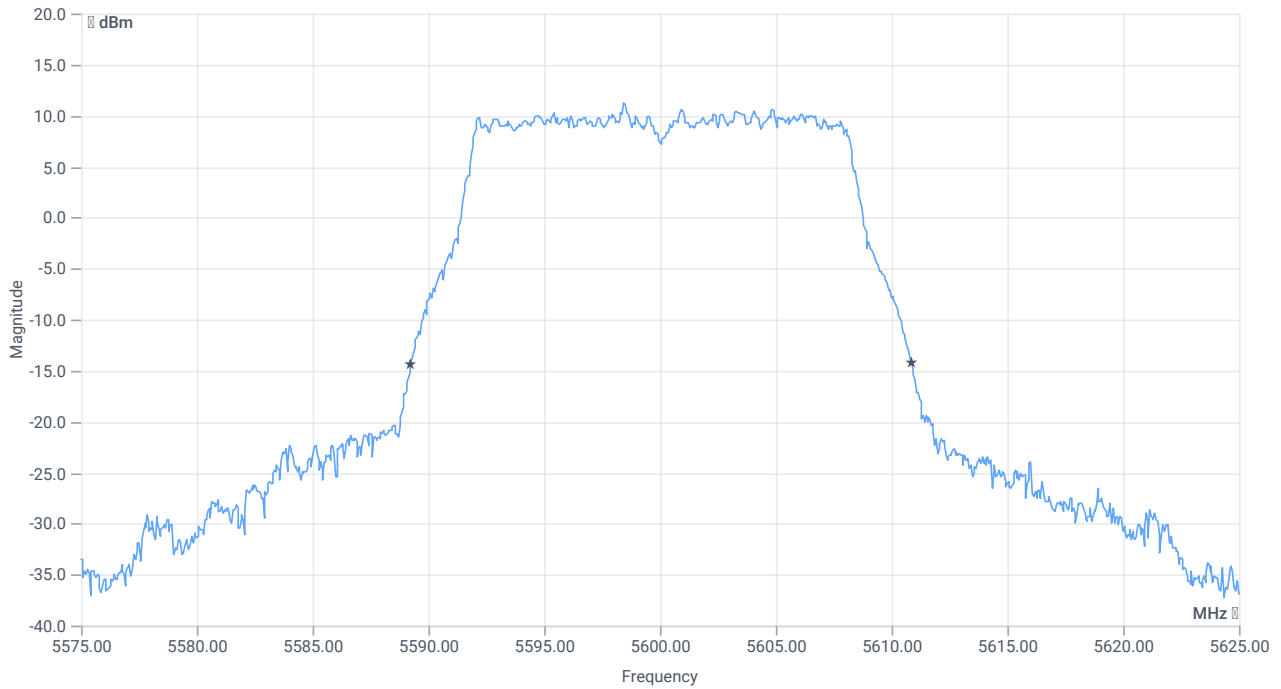


*BW within Band 99PCT*

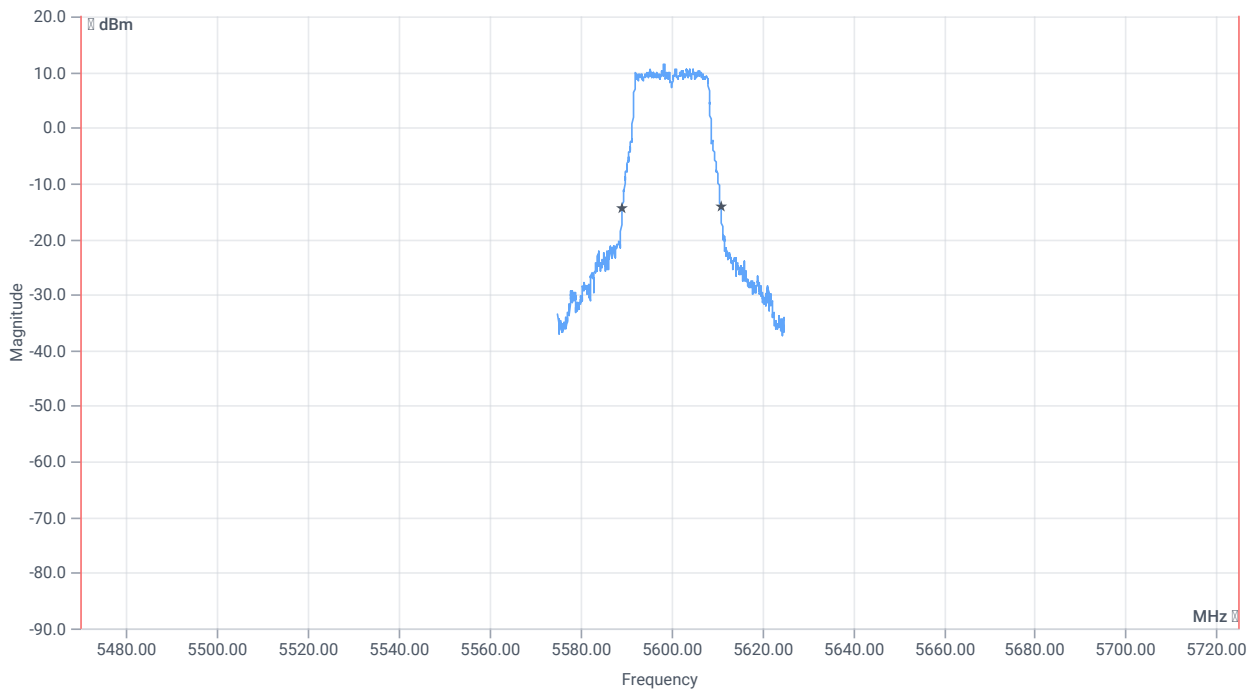
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.183	MHz	INFO
T1 99%	5470.000000	--	5591.4585	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5608.6414	MHz	





*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5589.2500	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5610.8500	MHz	

Verdict

**PASS**

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 11:27:50
Ambit temp [°C]   humidity [rel%]	24.6   51
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5600 MHz

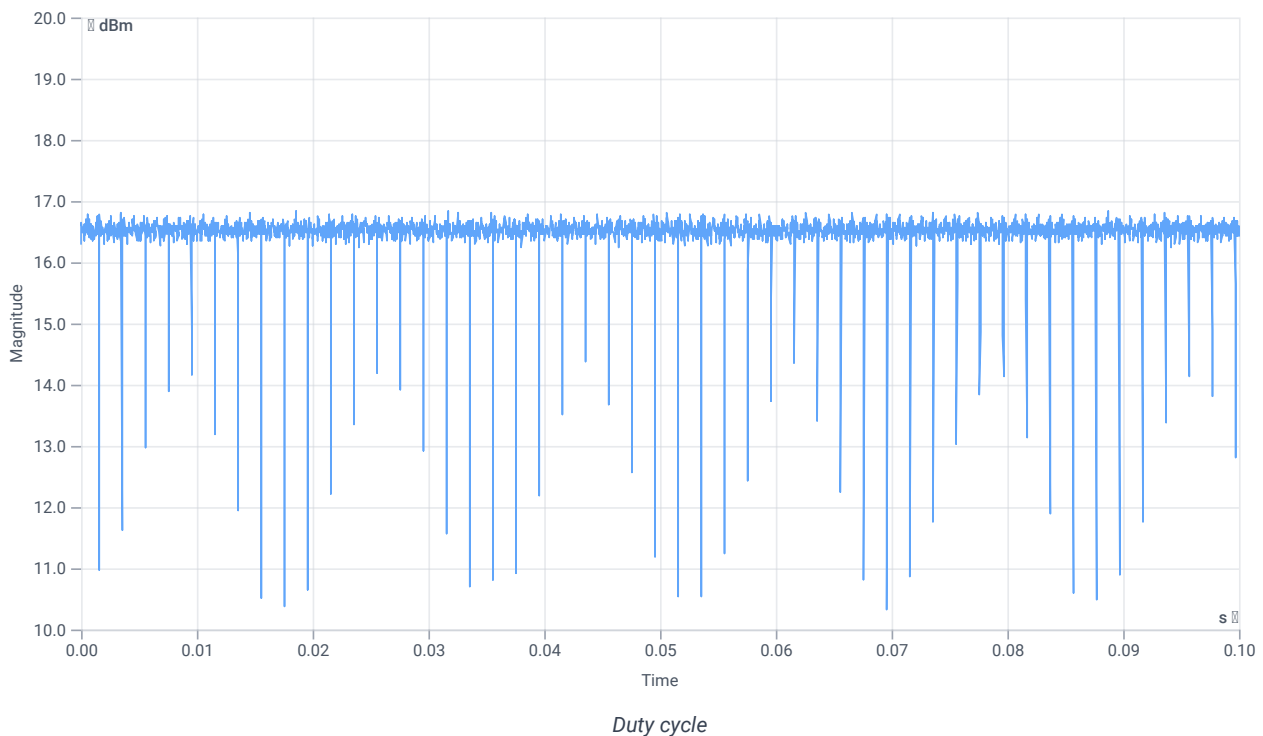
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	14.77	dBm	INFO
Ref. Frequency	--	--	5597.600	MHz	INFO

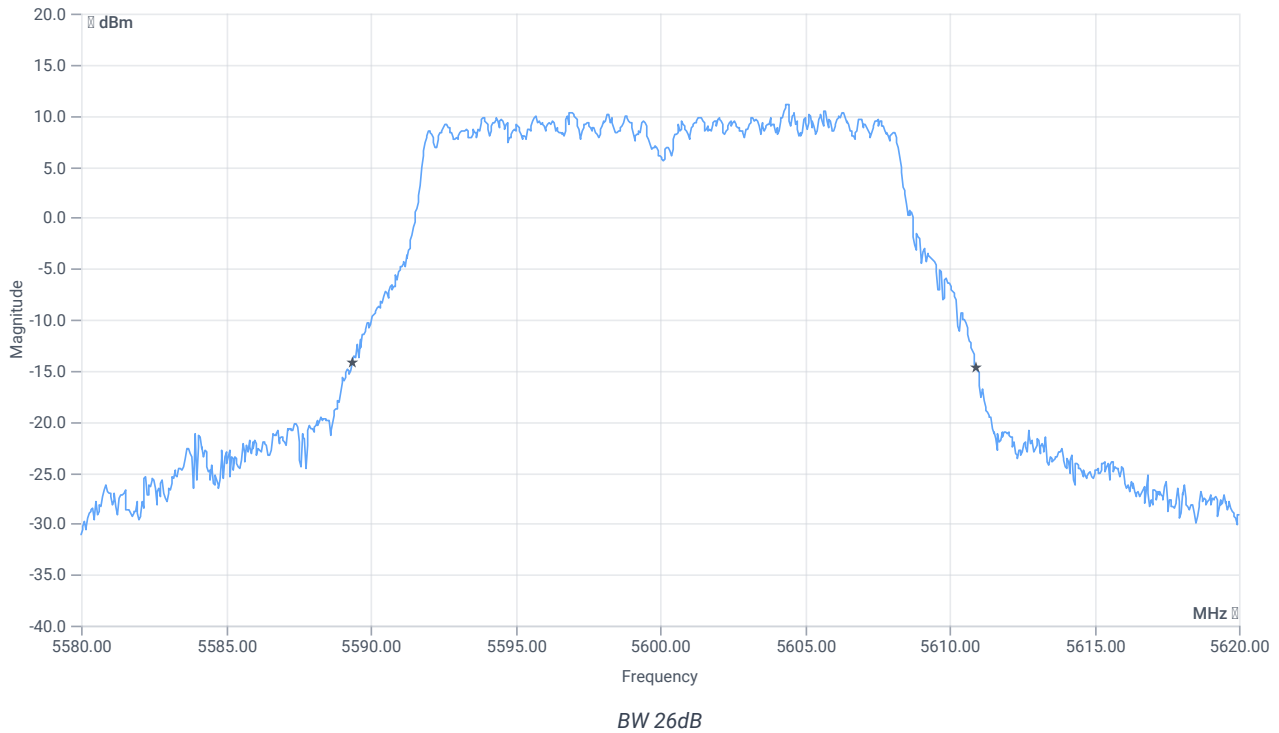
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



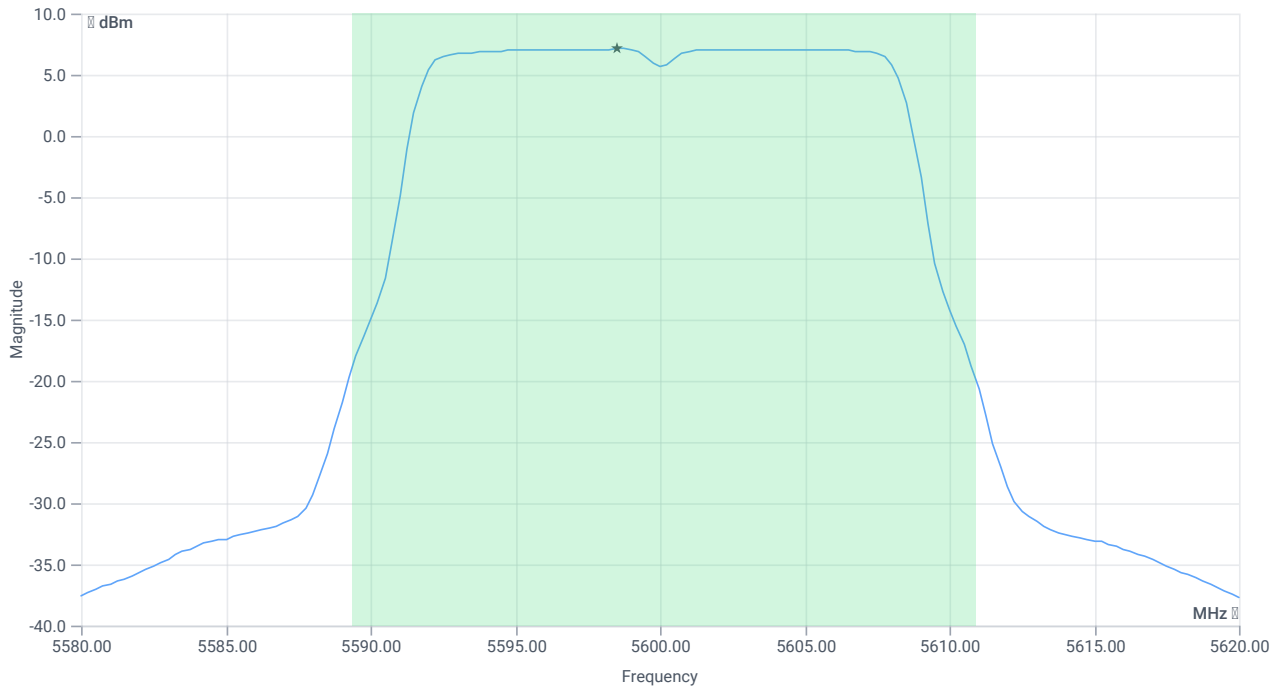
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.56	MHz	INFO
T1 26dB	---	---	5589.3600	MHz	INFO
T2 26dB	---	---	5610.9200	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	26.77   16.64   25
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.83	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.83	dBm	PASS
Limit: 11 dBm + 10 log 21.56					
Max Output Power DC corrected	--	24.34	18.83	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.12	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.12	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 11:29:17
Ambit temp [°C]   humidity [rel%]	24.6   51
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

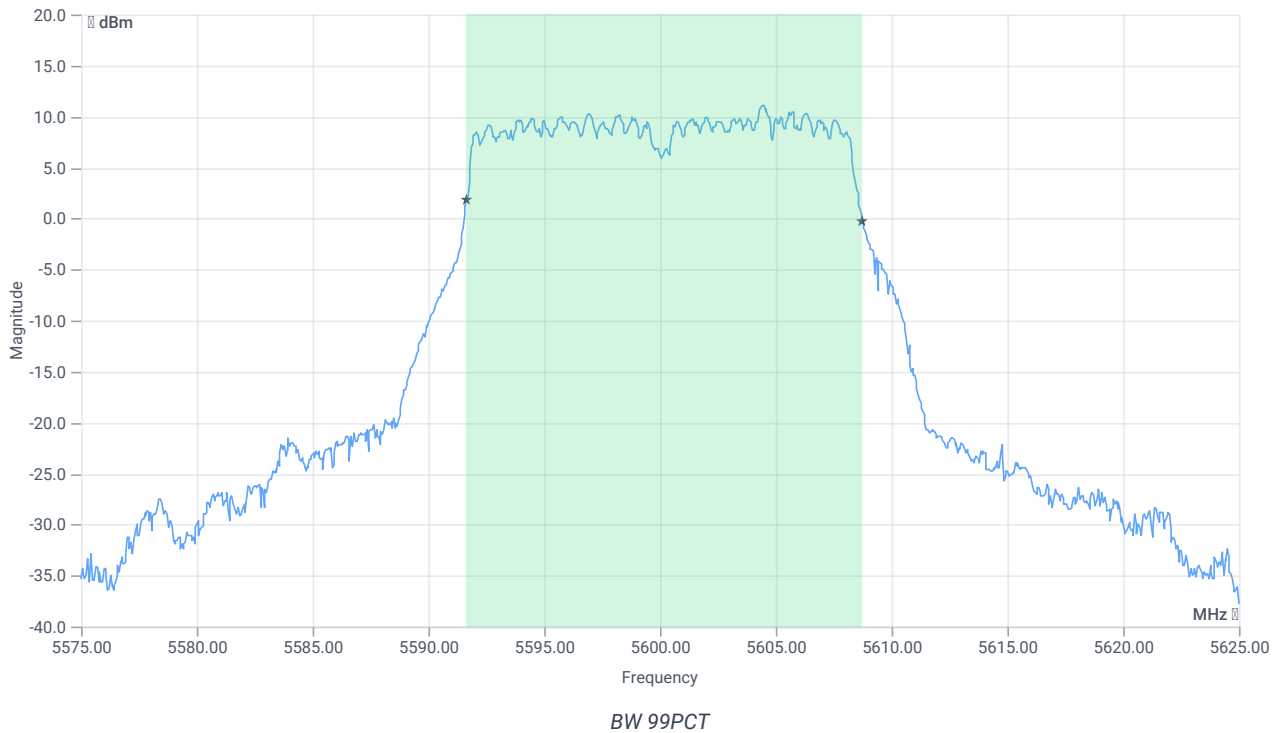
## Test at TX 5600 MHz

RESULT: Reference Power cond.

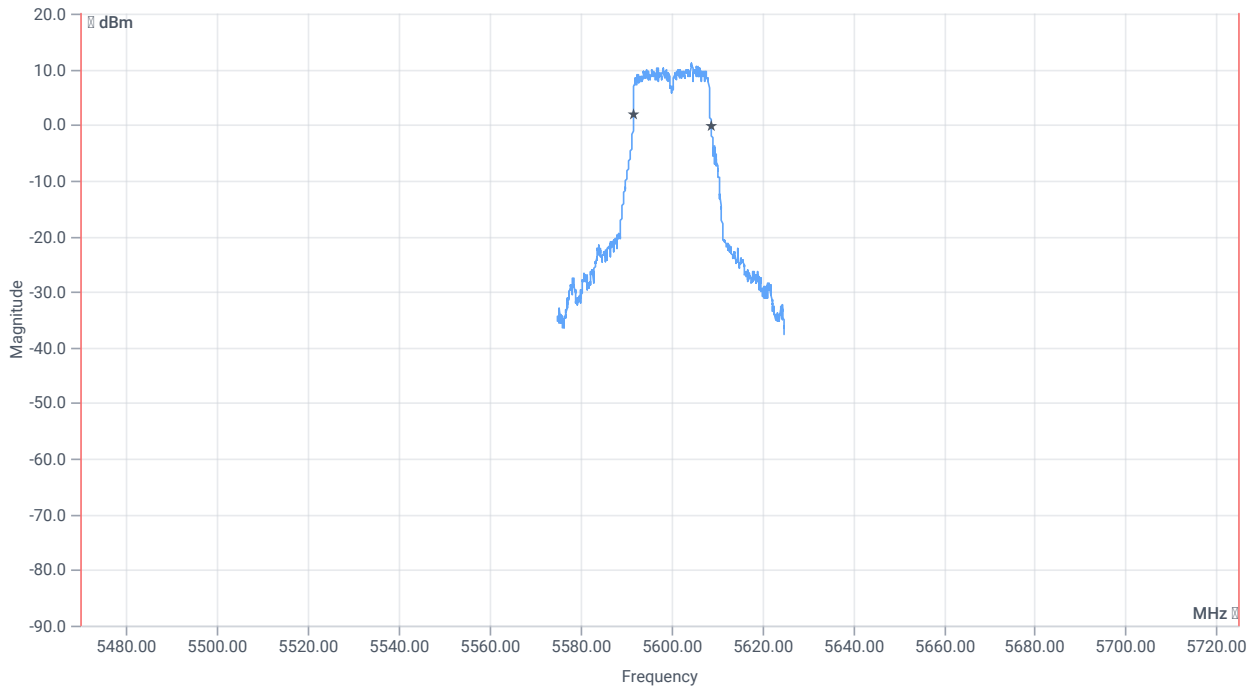
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.21	dBm	INFO
Ref. Frequency	--	--	5602.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.21   16.64   25
Start [MHz]   Stop [MHz]	5575.000   5625.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE



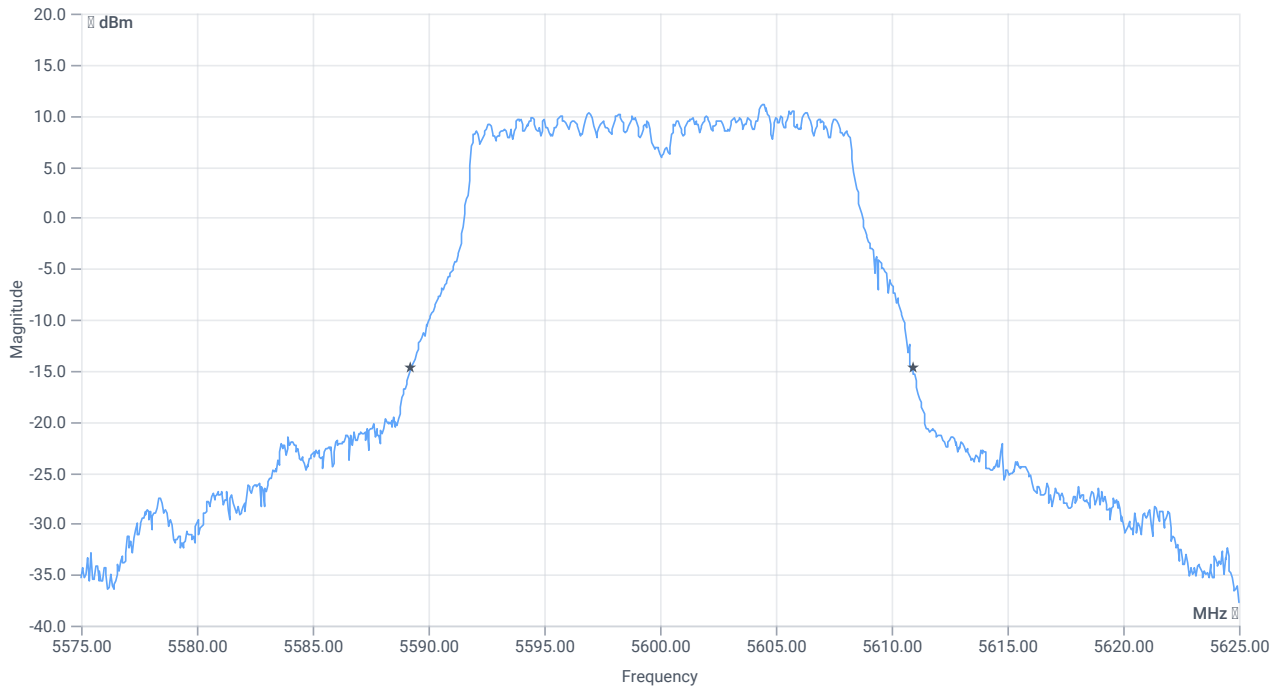




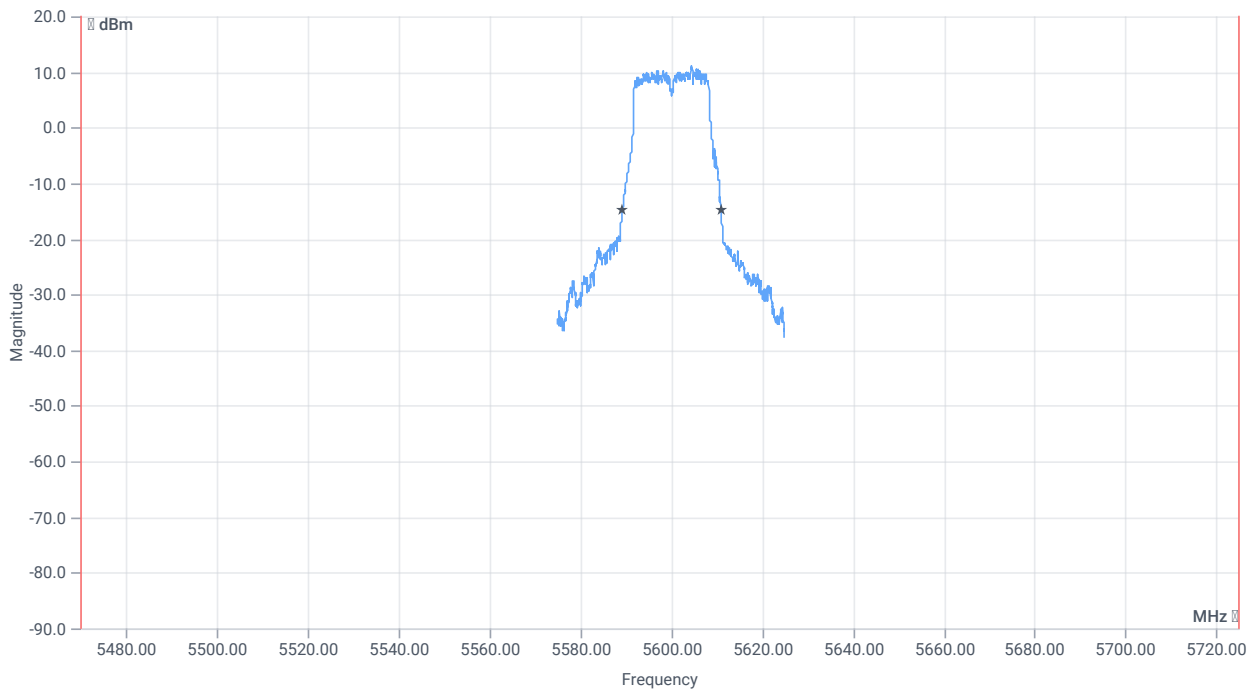
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.083	MHz	INFO
T1 99%	5470.000000	--	5591.6583	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5608.7413	MHz	



*BW 26dB*



*BW within Band 26dB*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.65	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5589.2500	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5610.9000	MHz	

Verdict

**PASS**

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 11:29:49
Ambit temp [°C]   humidity [rel%]	24.6   50
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	True   Freq [MHz] 5600
Frequency high to test	False   Freq [MHz] 5700
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5600 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	19.5	dBm	INFO
Ant:1 BW 26dB	--	--	21.680	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	18.83	dBm	INFO
Ant:2 BW 26dB	--	--	21.560	MHz	INFO
Σ Limit absolute	--	24	22.19	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.56	--	24.34	22.19	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.81	dBm/1MHz	INFO
Ant:2 PSD	--	--	7.12	dBm/1MHz	INFO
Σ	--	11	10.49	dBm/1MHz	PASS

Verdict

PASS

## # Message with SA scan ~

### References

TC start	24.07.2023 12:19:46
Ambit temp [°C]   humidity [rel%]	24.5   52
System version	4.6.0.0
Specification	-
Method	
Description	Message with SA Scan a_mode_U_NII_2C
Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	24.07.2023 12:19:46
Message	set WLAN5Gx to a_mode_U_NII_2C, Frequency [MHz] 5700

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 12:19:54
Ambit temp [°C]   humidity [rel%]	24.5   52
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5720 MHz

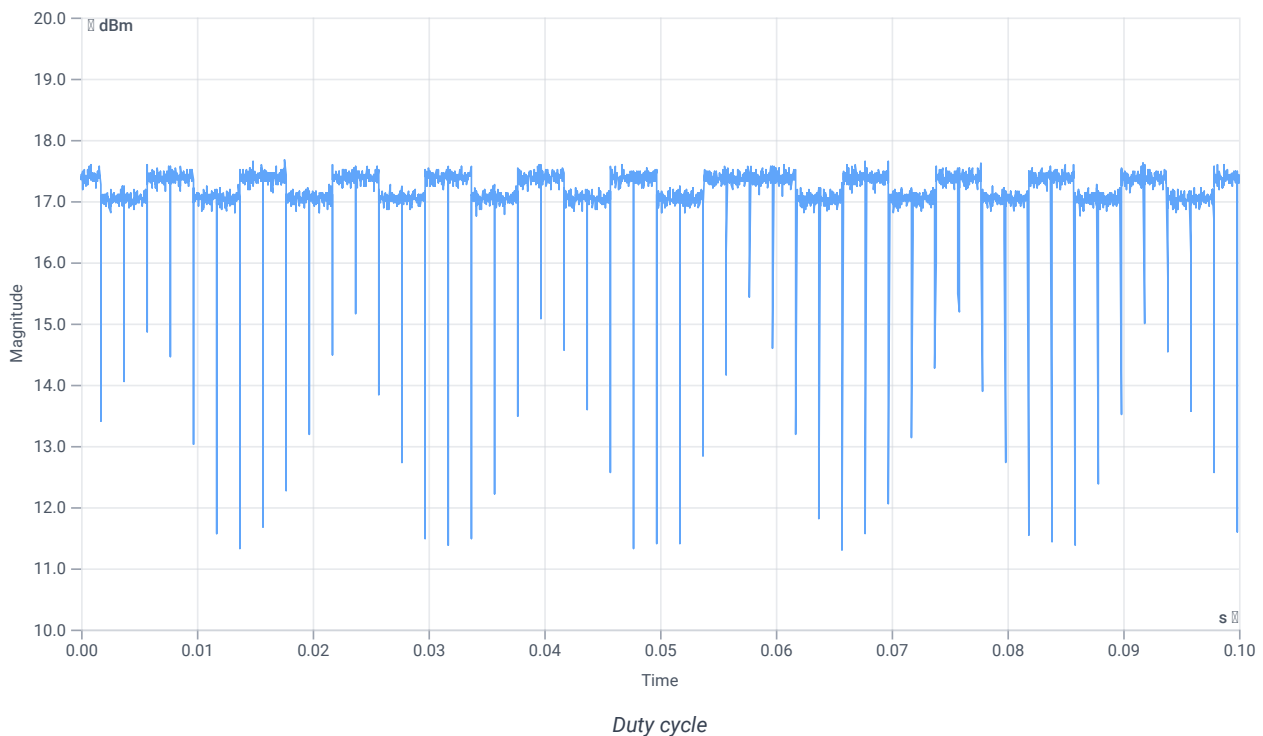
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.67	dBm	INFO
Ref. Frequency	--	--	5717.000	MHz	INFO

## Evaluation max. Duty Cycle

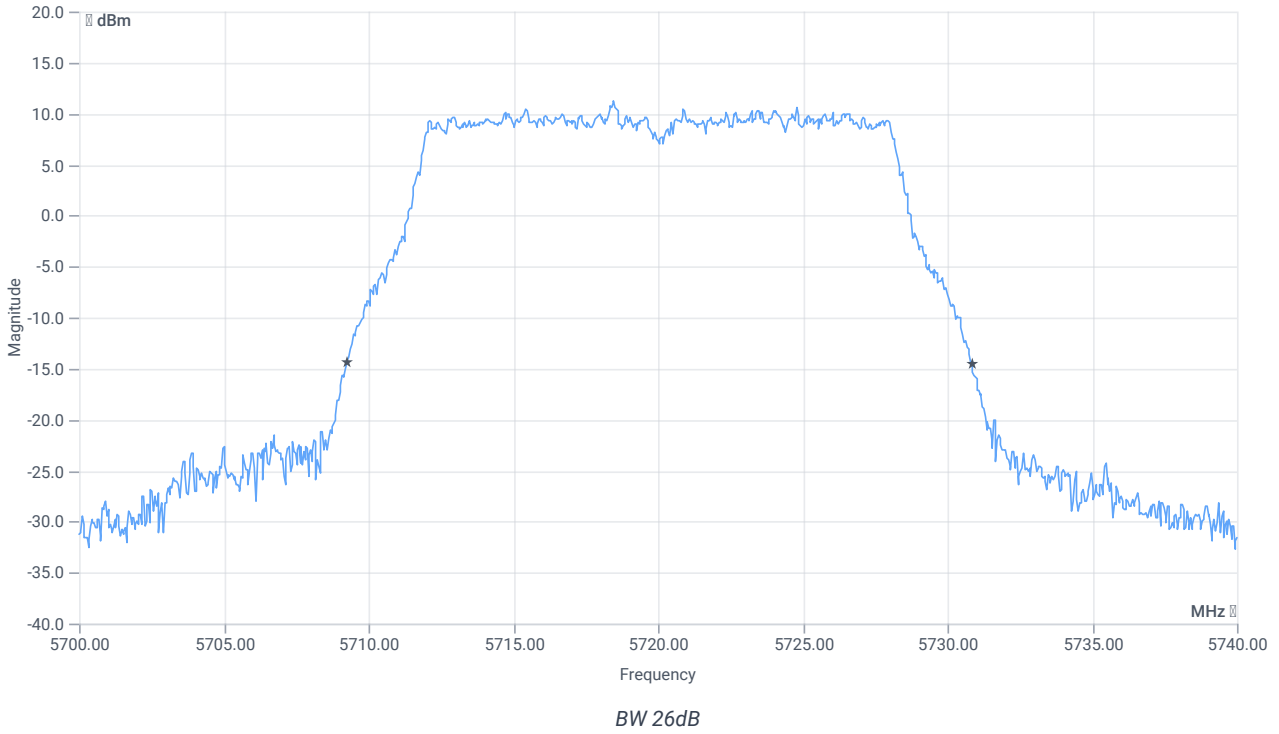
### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth





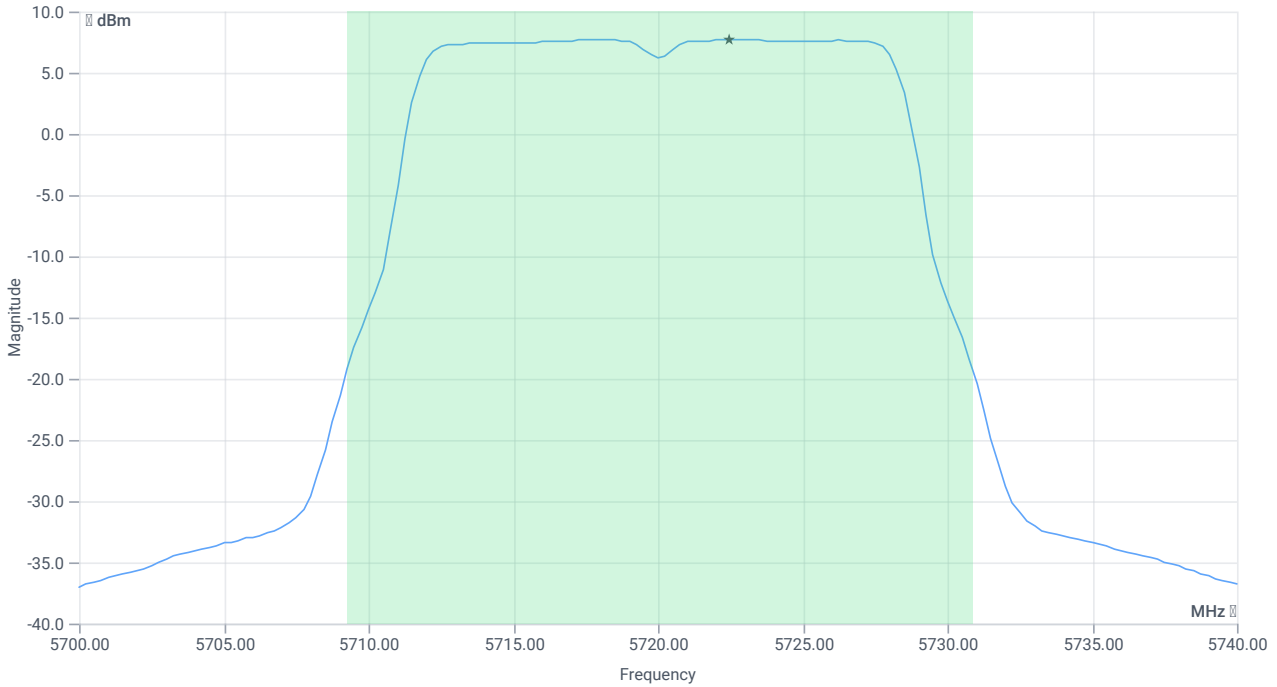
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO
T1 26dB	---	---	5709.2400	MHz	INFO
T2 26dB	---	---	5730.8400	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.67   16.59   30
Start [MHz]   Stop [MHz]	5700.000   5740.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	19.4	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	19.4	dBm	PASS
Limit: 11 dBm + 10 log 21.6					
Max Output Power DC corrected	--	24.34	19.4	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.68	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.68	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 12:21:20
Ambit temp [°C]   humidity [rel%]	24.5   52
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

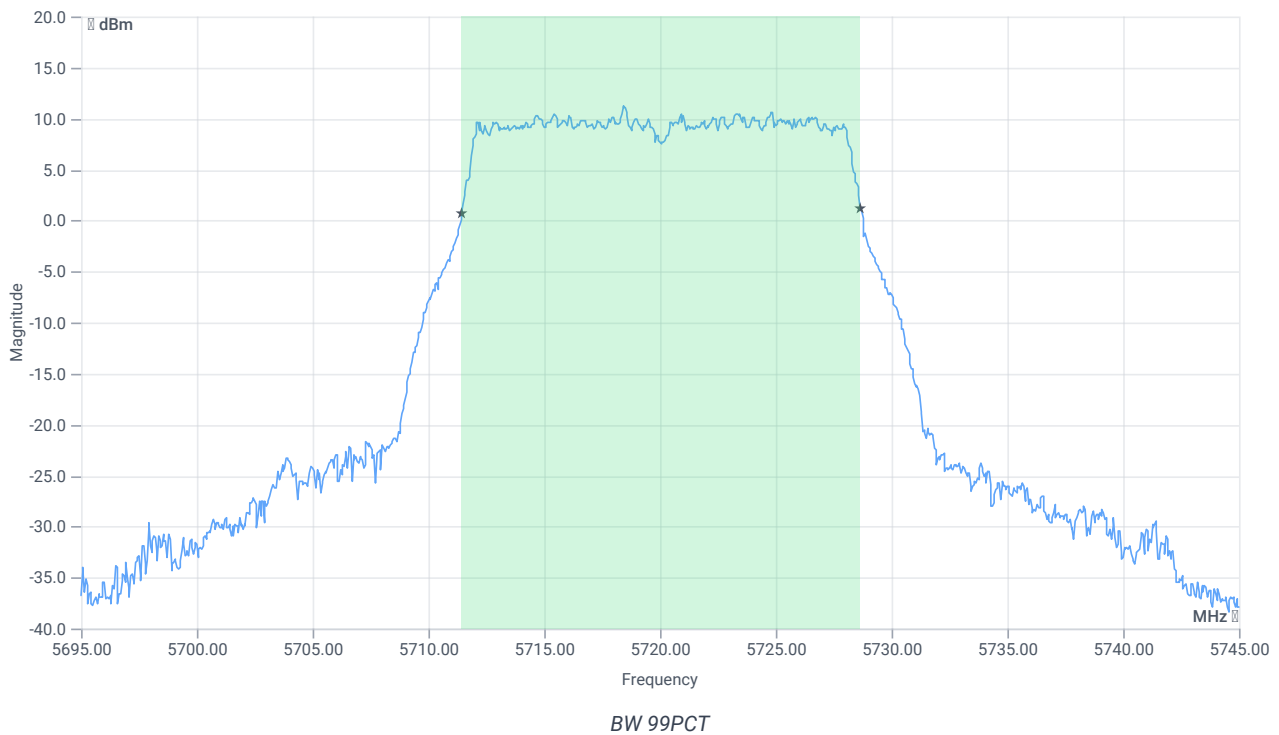
## Test at TX 5720 MHz

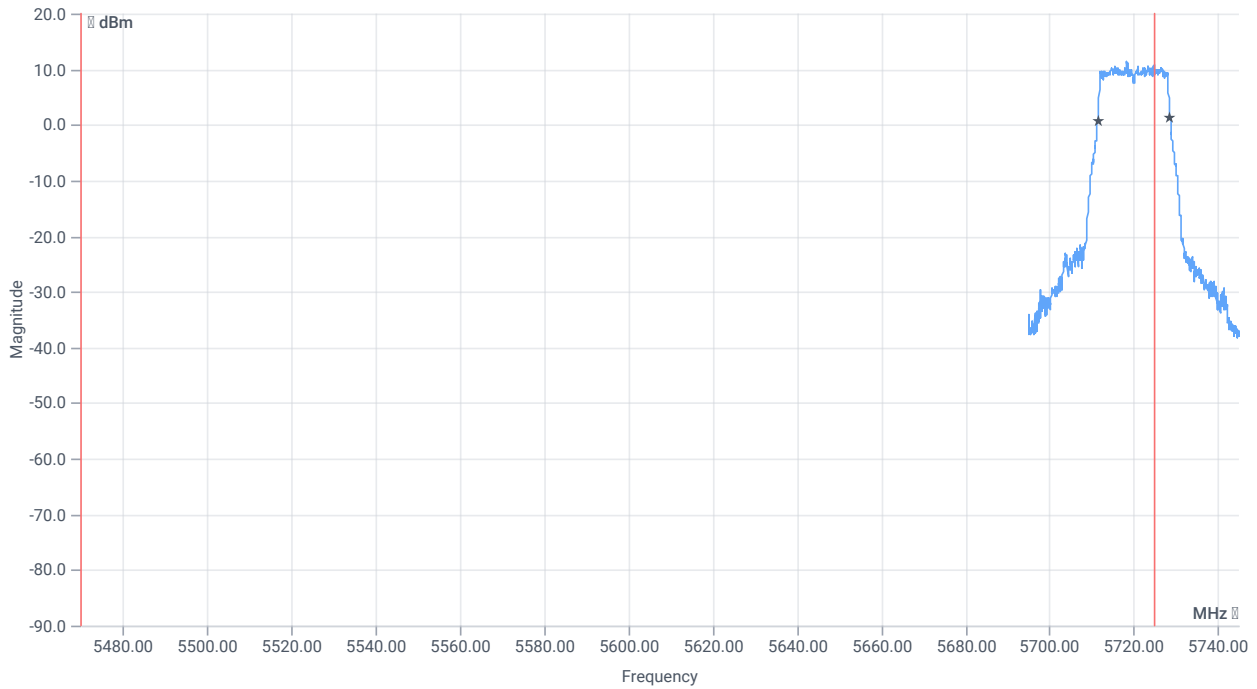
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.85	dBm	INFO
Ref. Frequency	--	--	5715.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.85   16.59   25
Start [MHz]   Stop [MHz]	5695.000   5745.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

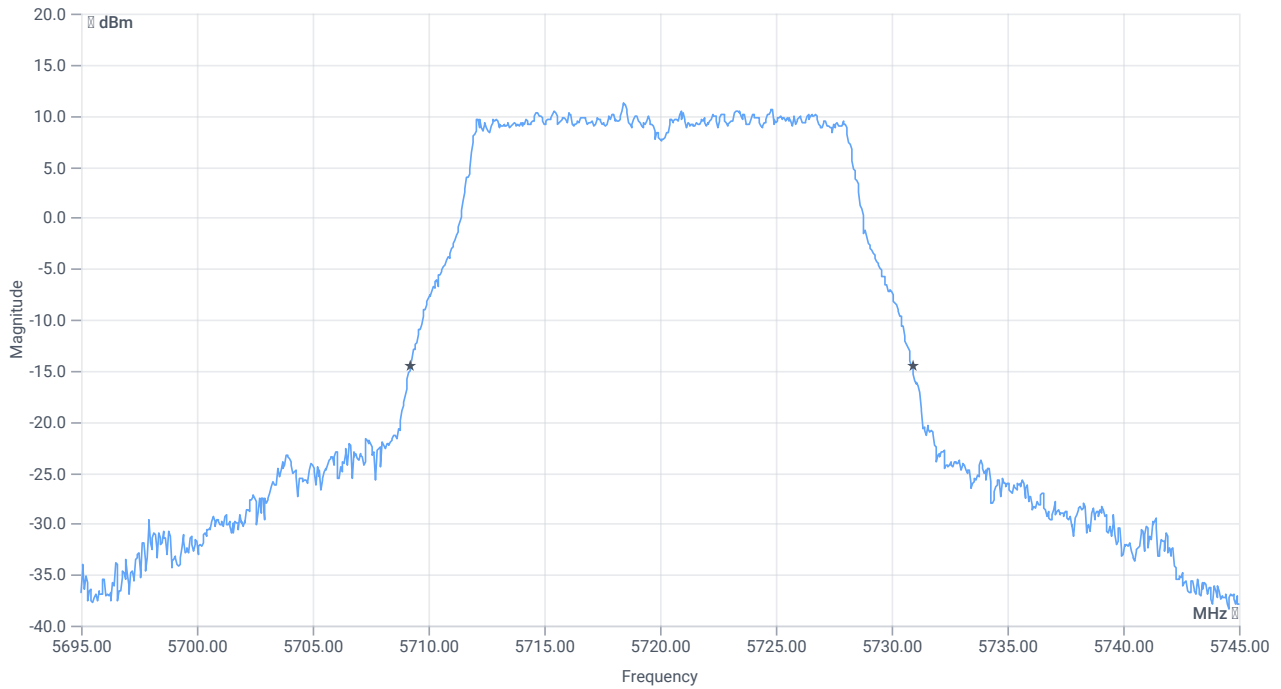




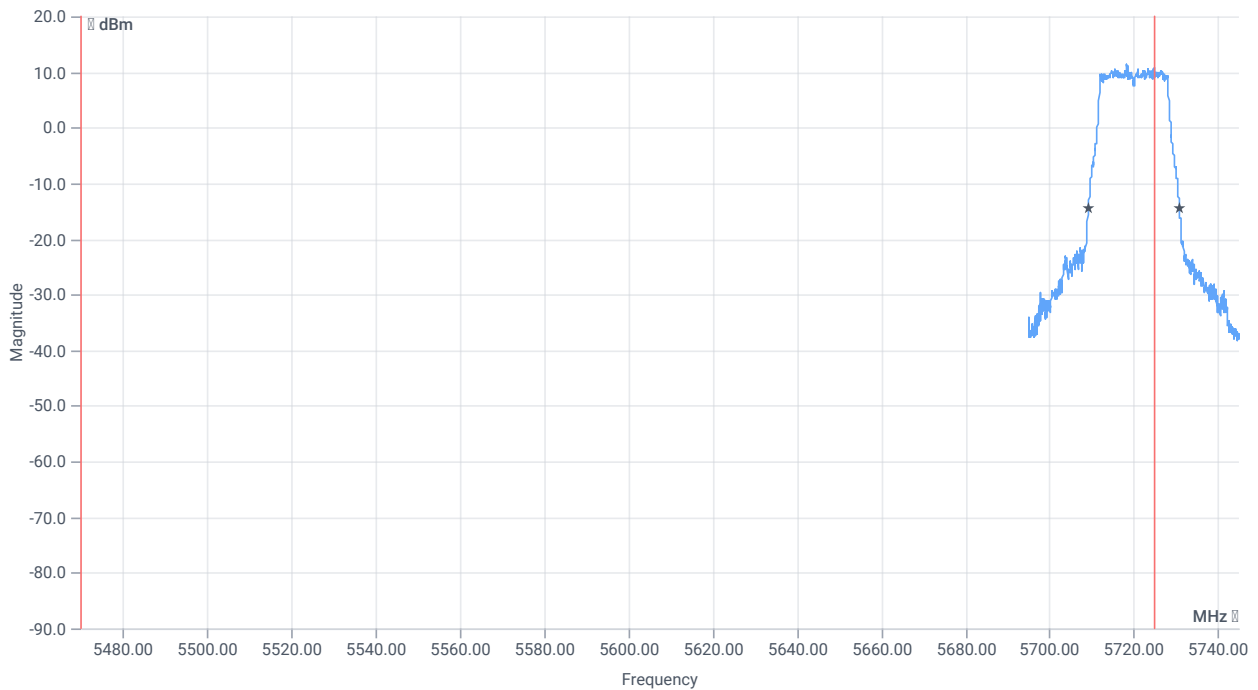
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.183	MHz	INFO
T1 99%	5470.000000	--	5711.4585	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5728.6414	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.65	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5709.2500	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5730.9000	MHz	

Verdict

**PASS**

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 12:21:51
Ambit temp [°C]   humidity [rel%]	24.5   52
System version	4.6.0.0
Specification	FCC 15.407 -
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI



### Test at TX 5720 MHz

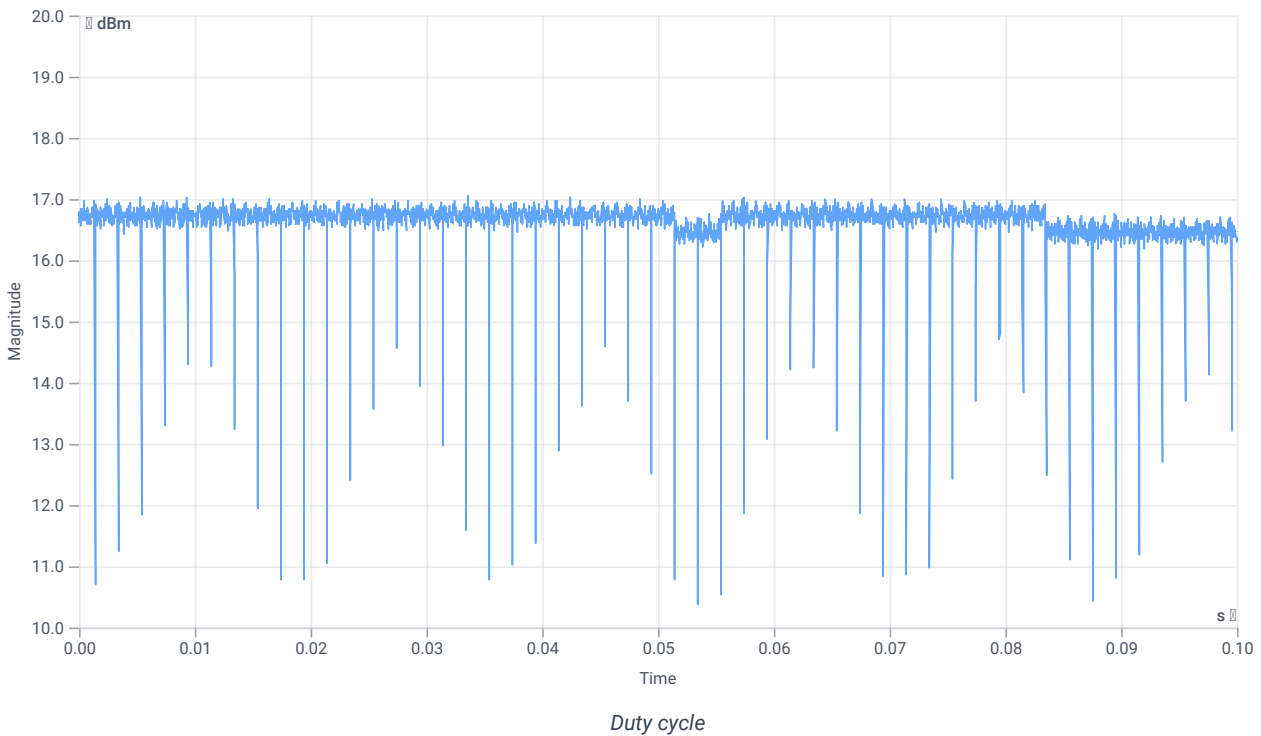
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	15.27	dBm	INFO
Ref. Frequency	--	--	5718.600	MHz	INFO

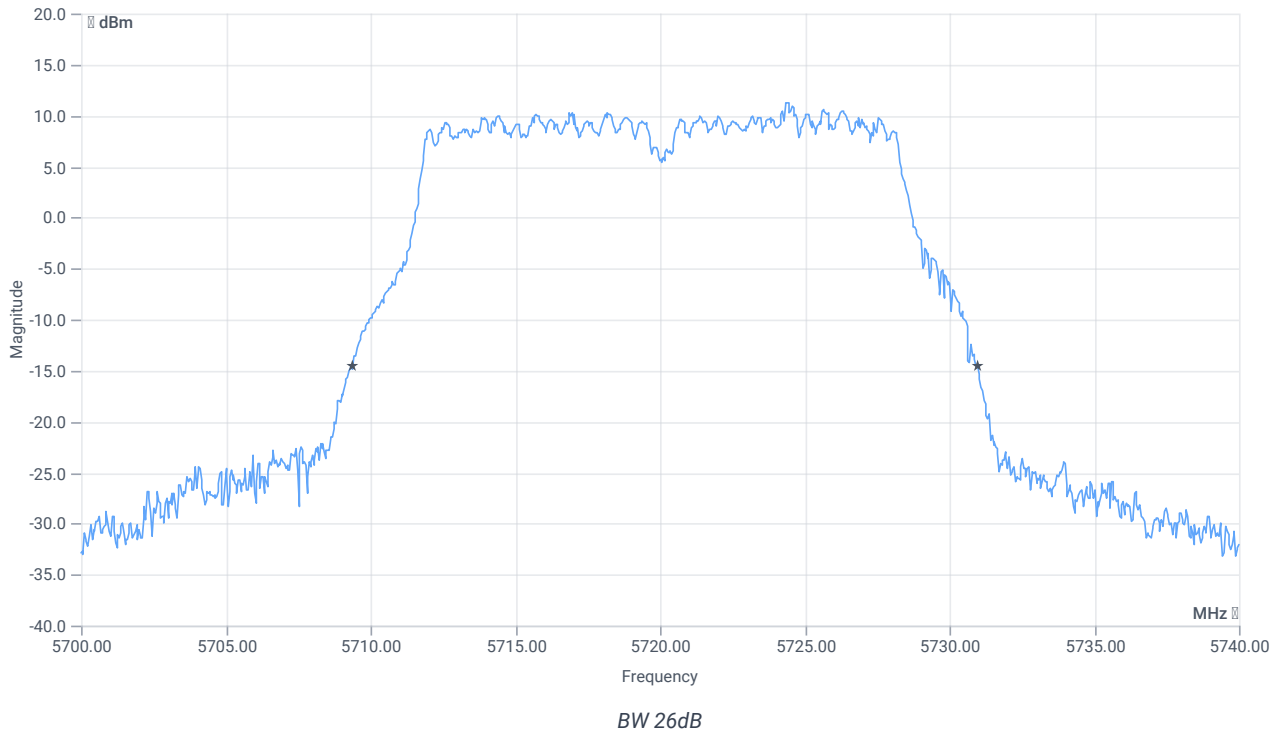
### Evaluation max. Duty Cycle

#### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



### Evaluation Bandwidth



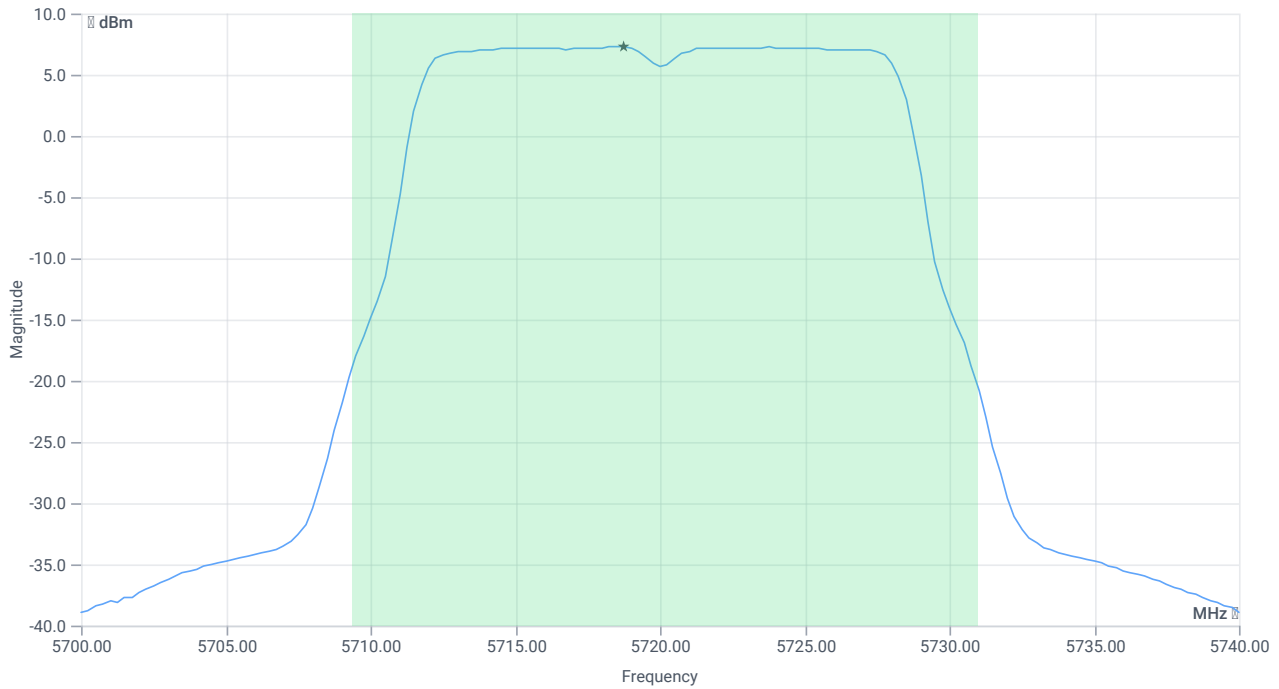
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.6	MHz	INFO
T1 26dB	---	---	5709.3600	MHz	INFO
T2 26dB	---	---	5730.9600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.27   16.59   25
Start [MHz]   Stop [MHz]	5700.000   5740.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	18.95	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	24	18.95	dBm	PASS
Limit: 11 dBm + 10 log 21.6					
Max Output Power DC corrected	--	24.34	18.95	dBm	PASS

## Power Spectral Density

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	7.27	dBm/1MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	11	7.27	dBm/1MHz	PASS

### Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 12:23:18
Ambit temp [°C]   humidity [rel%]	24.5   52
System version	4.6.0.0
Specification	FCC 15.407, ISED RSS247 -
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

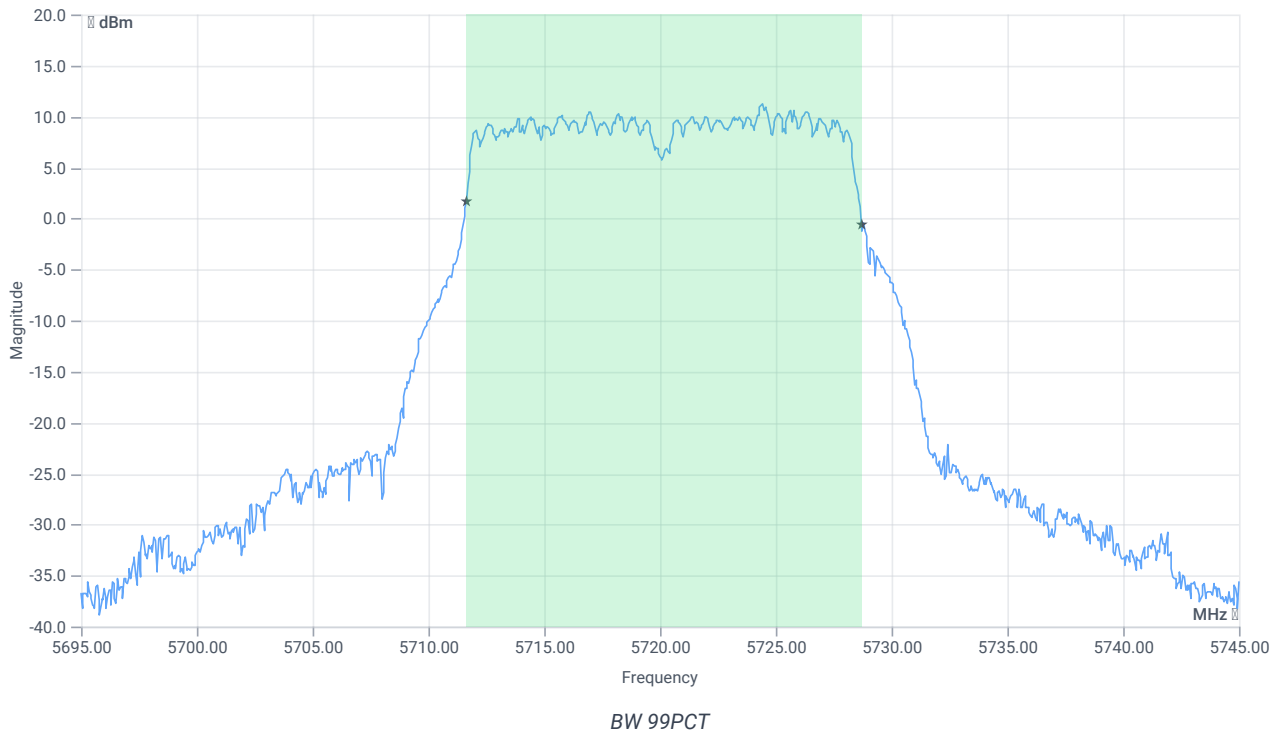
## Test at TX 5720 MHz

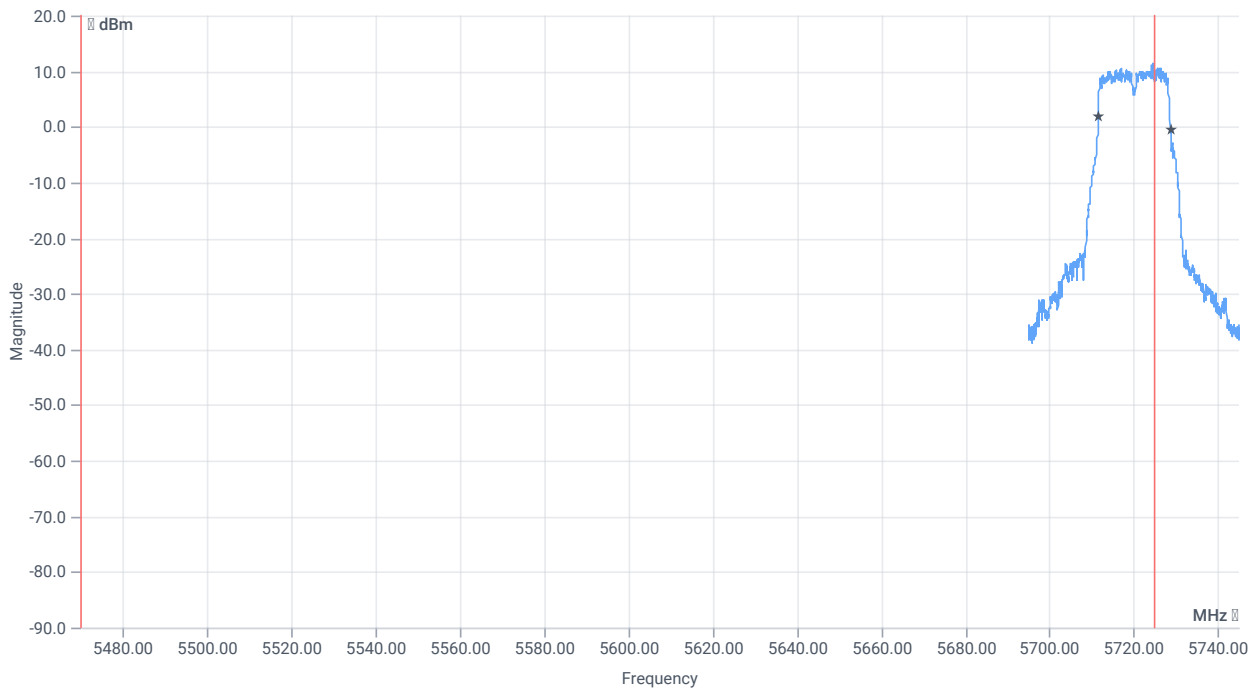
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	16.12	dBm	INFO
Ref. Frequency	--	--	5717.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.12   16.59   25
Start [MHz]   Stop [MHz]	5695.000   5745.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

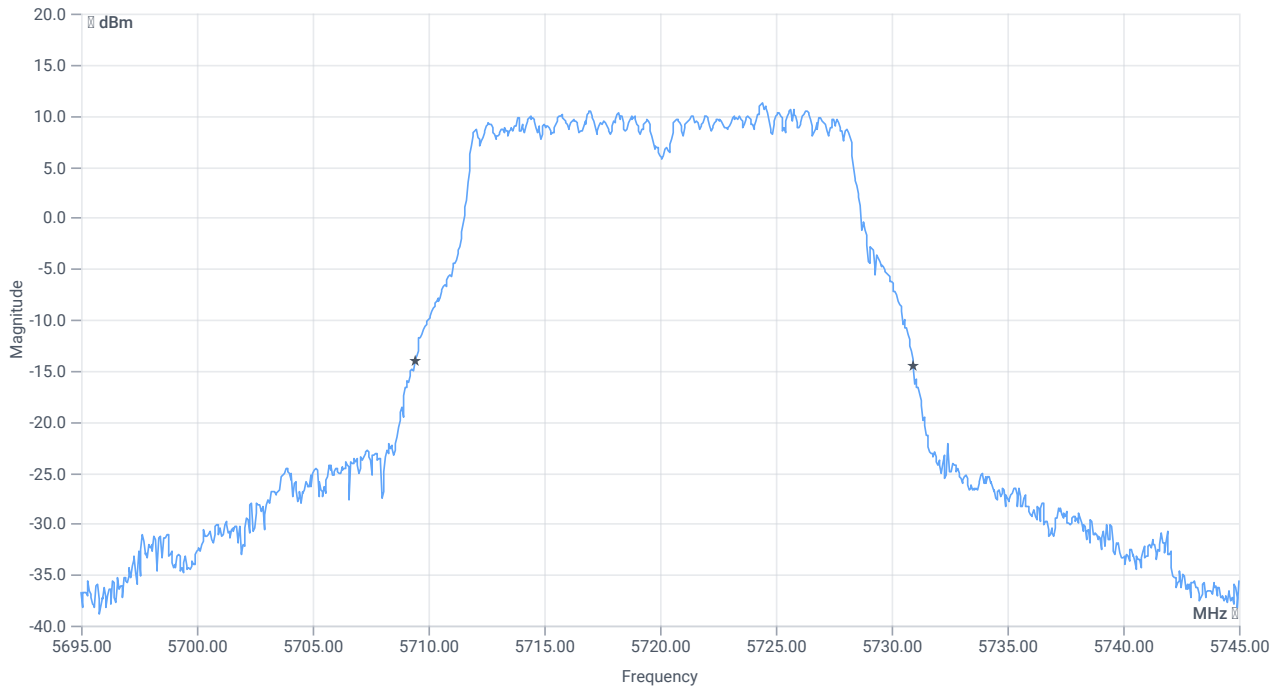




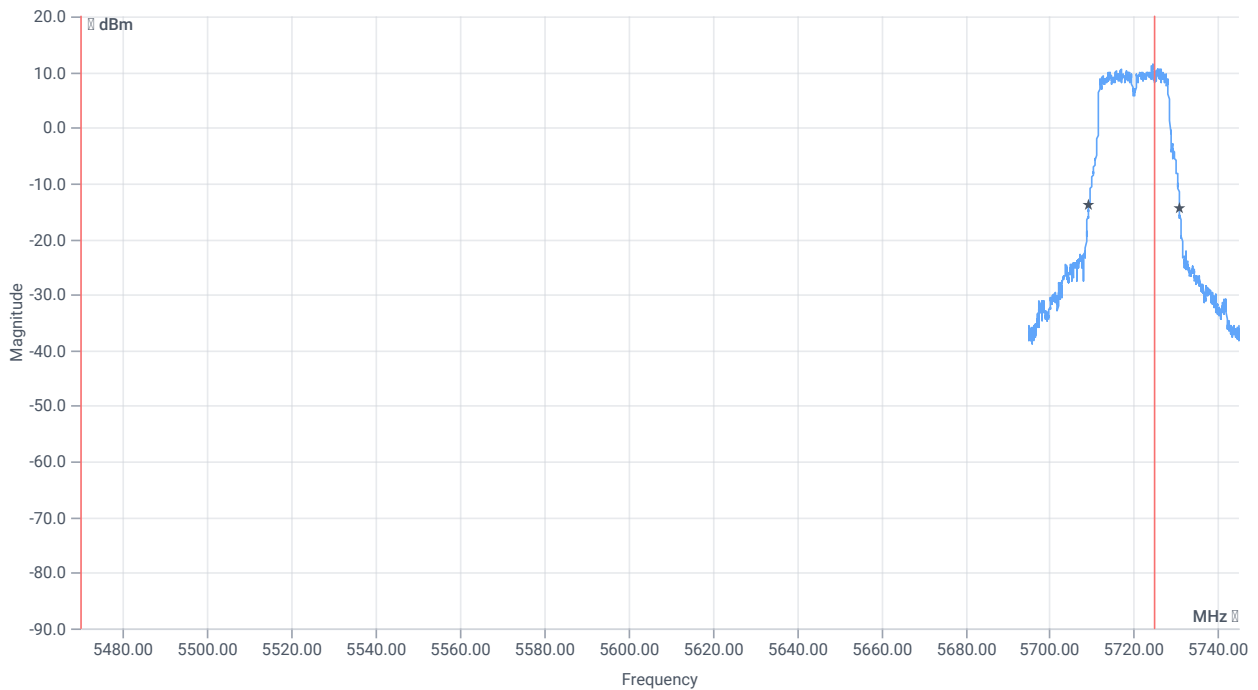
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	17.083	MHz	INFO
T1 99%	5470.000000	--	5711.6583	MHz	PASS since U-NII-3 is supported
T2 99%	--	5725.000000	5728.7413	MHz	



BW 26dB



BW within Band 26dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.55	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
T1 26dB	5470.000000	--	5709.4000	MHz	PASS since U-NII-3 is supported
T2 26dB	--	5725.000000	5730.9500	MHz	

Verdict

**PASS**



## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### References

TC start	24.07.2023 12:23:49
Ambit temp [°C]   humidity [rel%]	24.5   52
System version	4.6.0.0
Specification	FCC 15.407 -
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-2C
Information	PS75

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5500
Frequency mid to test	False   Freq [MHz] 5600
Frequency high to test	True   Freq [MHz] 5720
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5720 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	19.4	dBm	INFO
Ant:1 BW 26dB	--	--	21.600	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	18.95	dBm	INFO
Ant:2 BW 26dB	--	--	21.600	MHz	INFO
Σ Limit absolute	--	24	22.19	dBm	PASS
Σ Limit: 11 dBm + 10 log 21.6	--	24.34	22.19	dBm	PASS

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	7.68	dBm/1MHz	INFO
Ant:2 PSD	--	--	7.27	dBm/1MHz	INFO
Σ	--	11	10.49	dBm/1MHz	PASS

### Verdict

PASS

## NA # Message with SA scan ~

### References

TC start	01.08.2023 14:07:03
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	NA   NI
Method	
Description	Message with SA Scan a_mode_U_NII_3
Information	PS96

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	01.08.2023 14:07:04
Message	set WLAN5Gx to a_mode_U_NII_3, Frequency [MHz] 5745 , Information: PS96

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70  
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:07:57
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5745 MHz

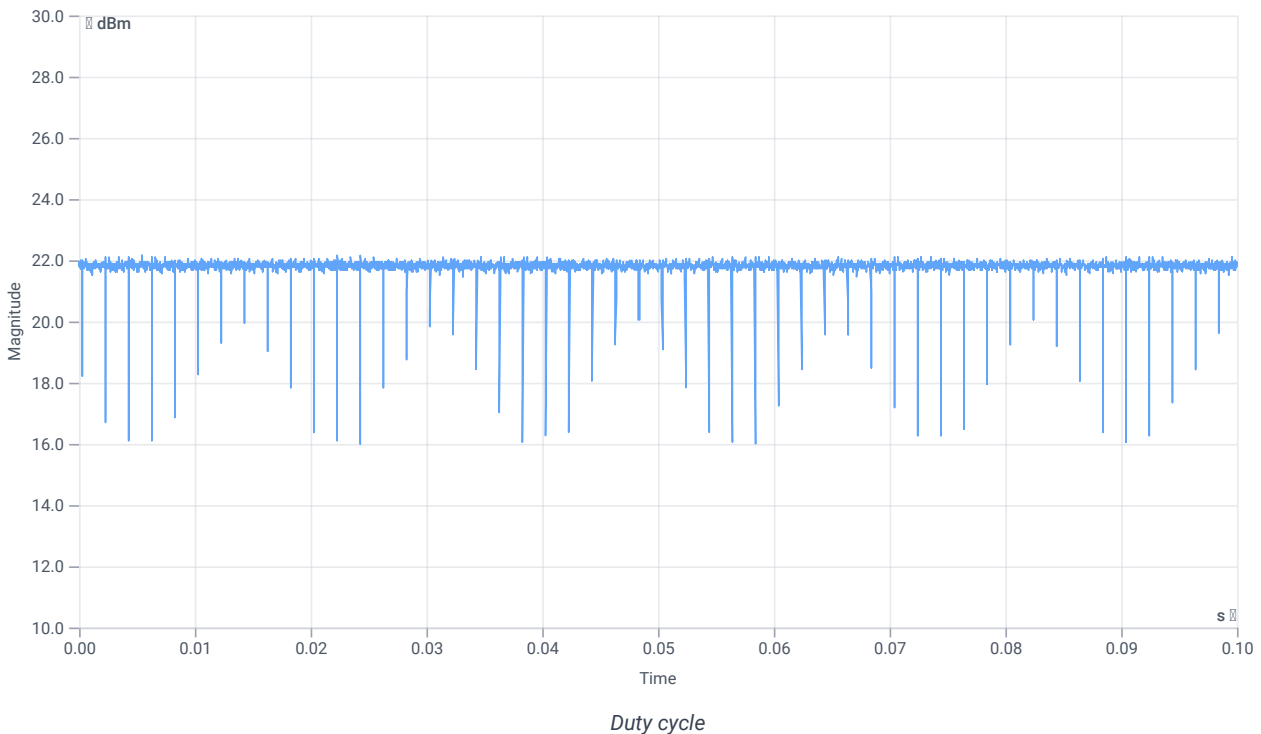
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.33	dBm	INFO
Ref. Frequency	--	--	5746.400	MHz	INFO

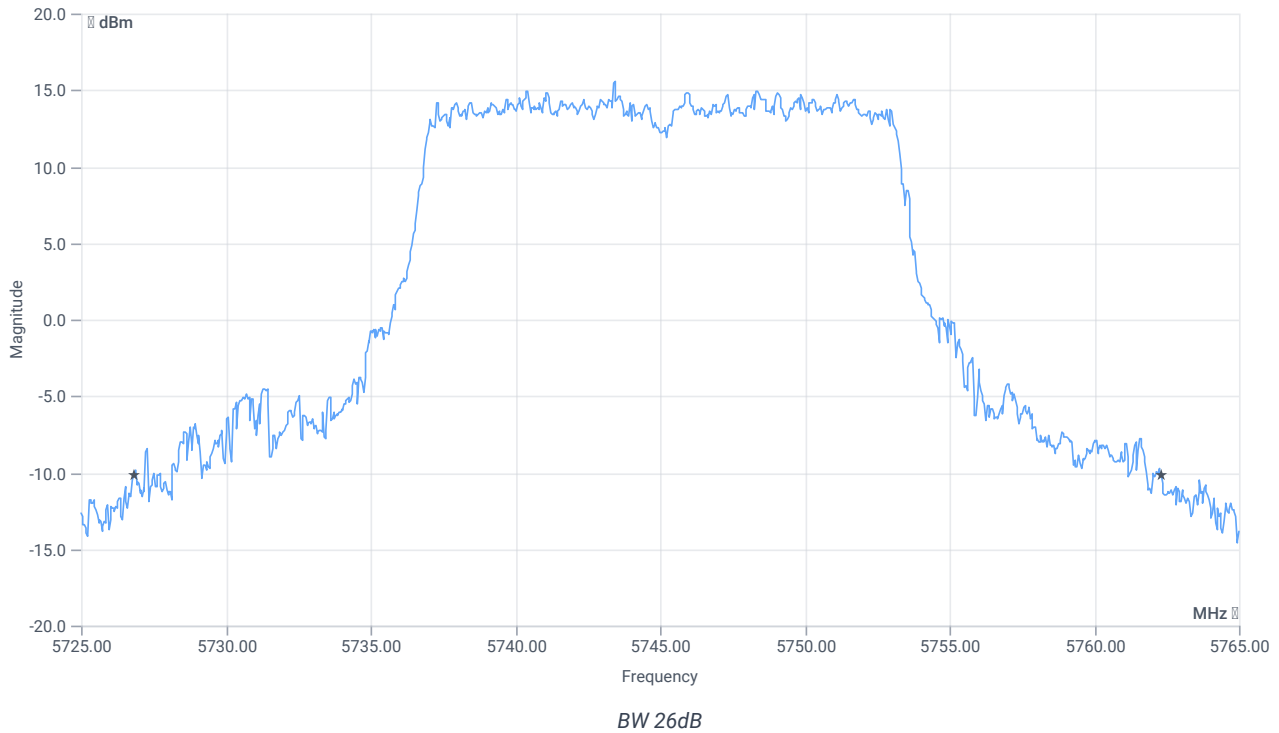
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



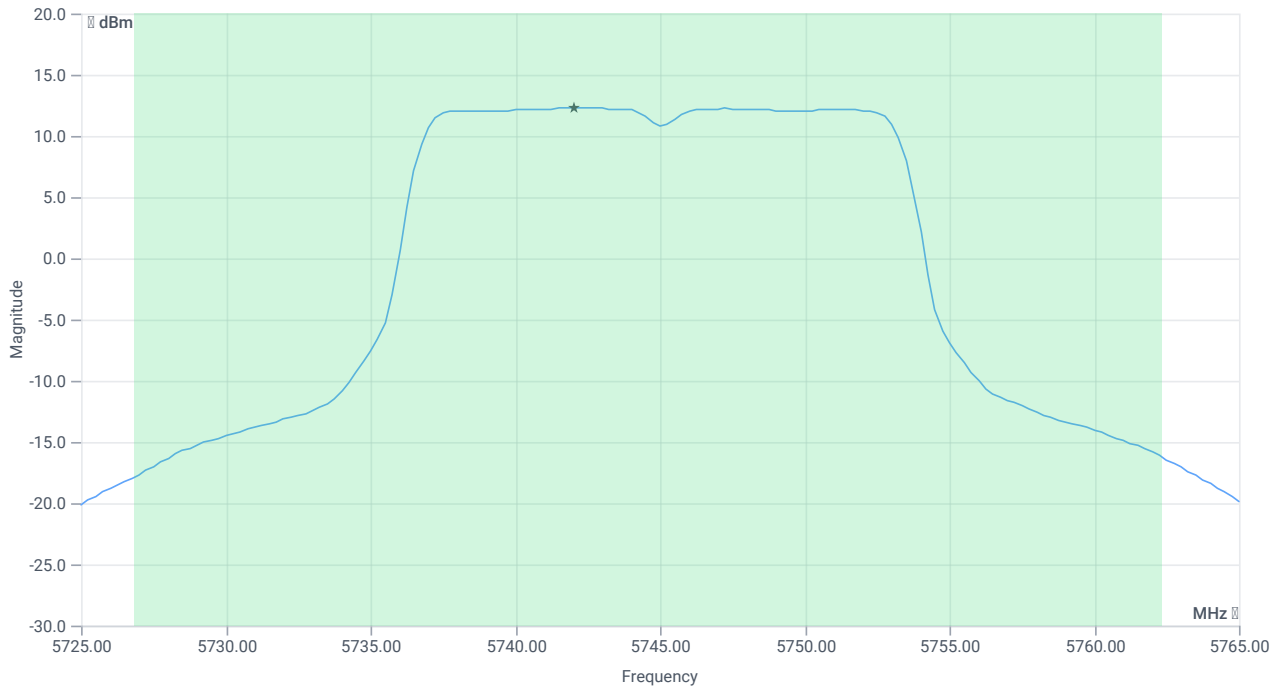
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	35.52	MHz	INFO
T1 26dB	---	---	5726.8000	MHz	INFO
T2 26dB	---	---	5762.3200	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.33   16.72   30
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

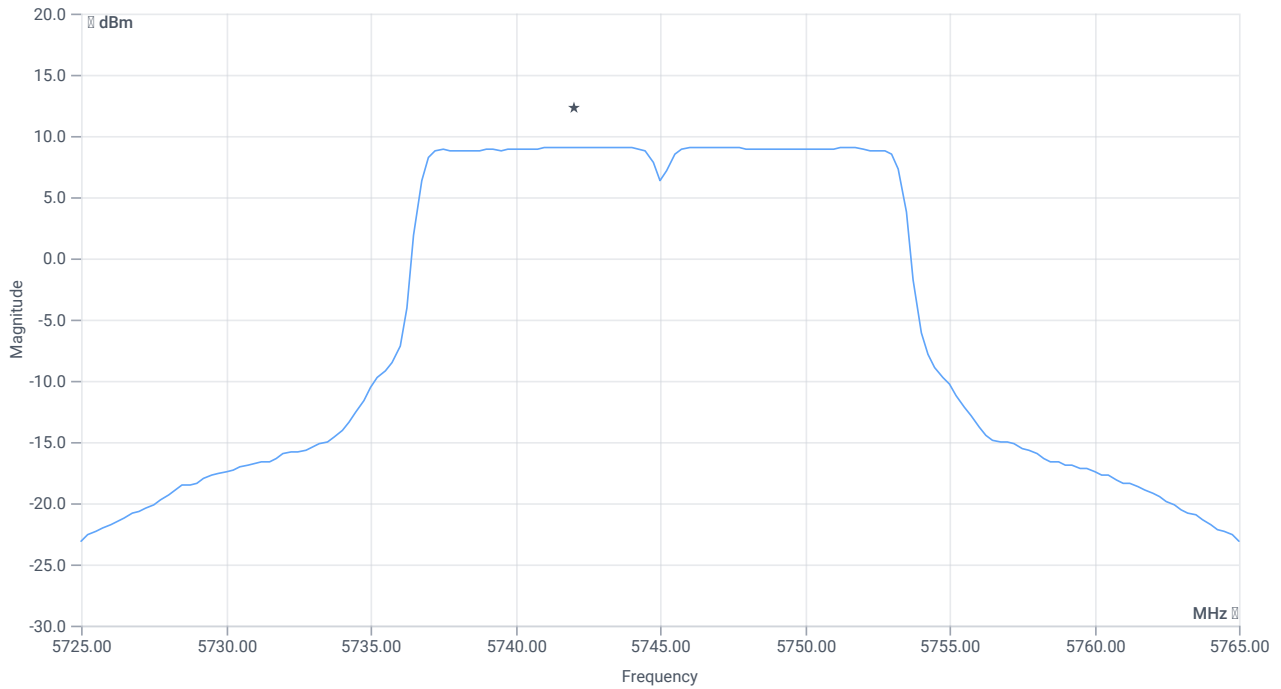
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	23.99	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	23.99	dBm	PASS
Limit: 11 dBm + 10 log 35.52					
Max Output Power DC corrected	--	26.5	23.99	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.33   16.72   35
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	0.500000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



PSD UNII-3

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	9.11	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	9.11	dBm/0.5MHz	PASS

Verdict

PASS



## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:10:29
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

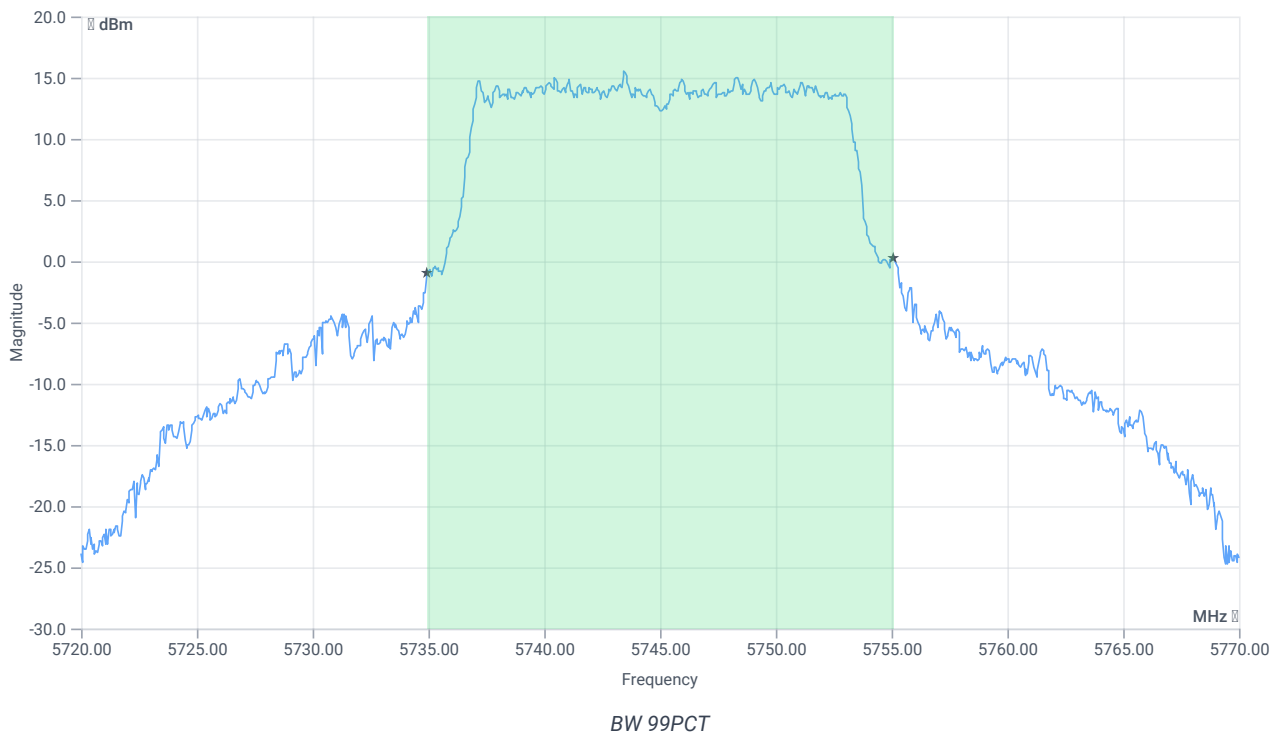
## Test at TX 5745 MHz

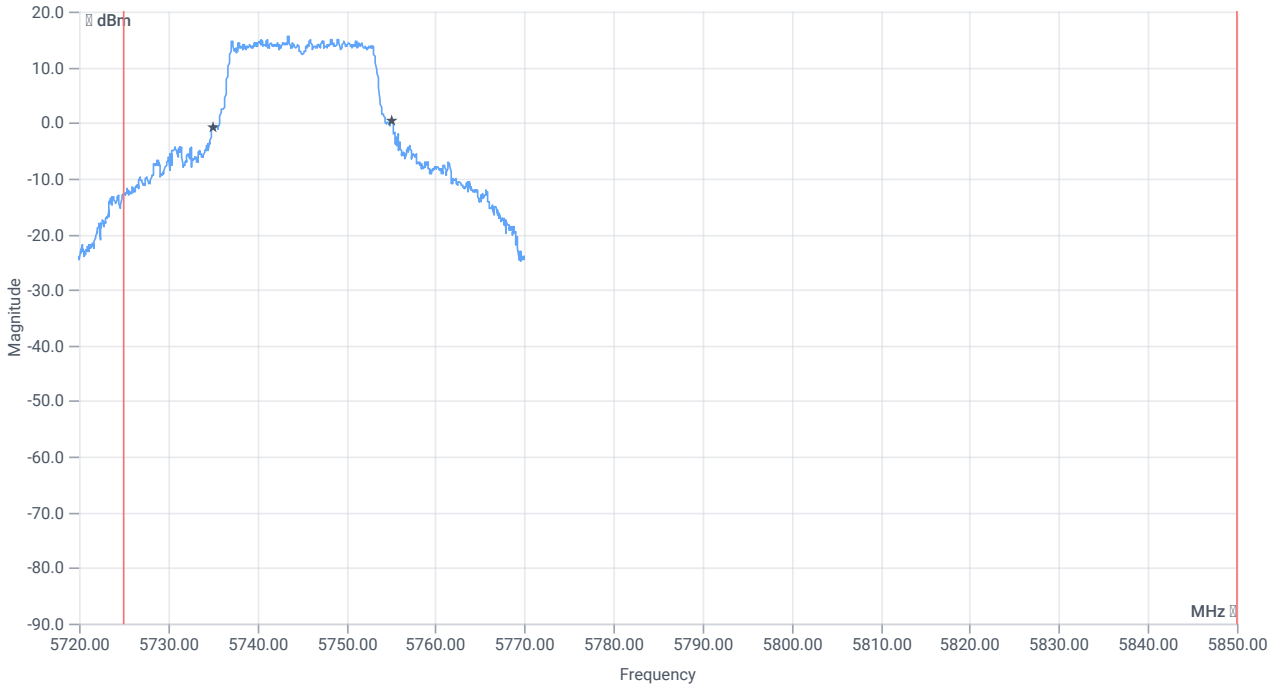
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.33	dBm	INFO
Ref. Frequency	--	--	5739.410	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.33   16.72   30
Start [MHz]   Stop [MHz]	5720.000   5770.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

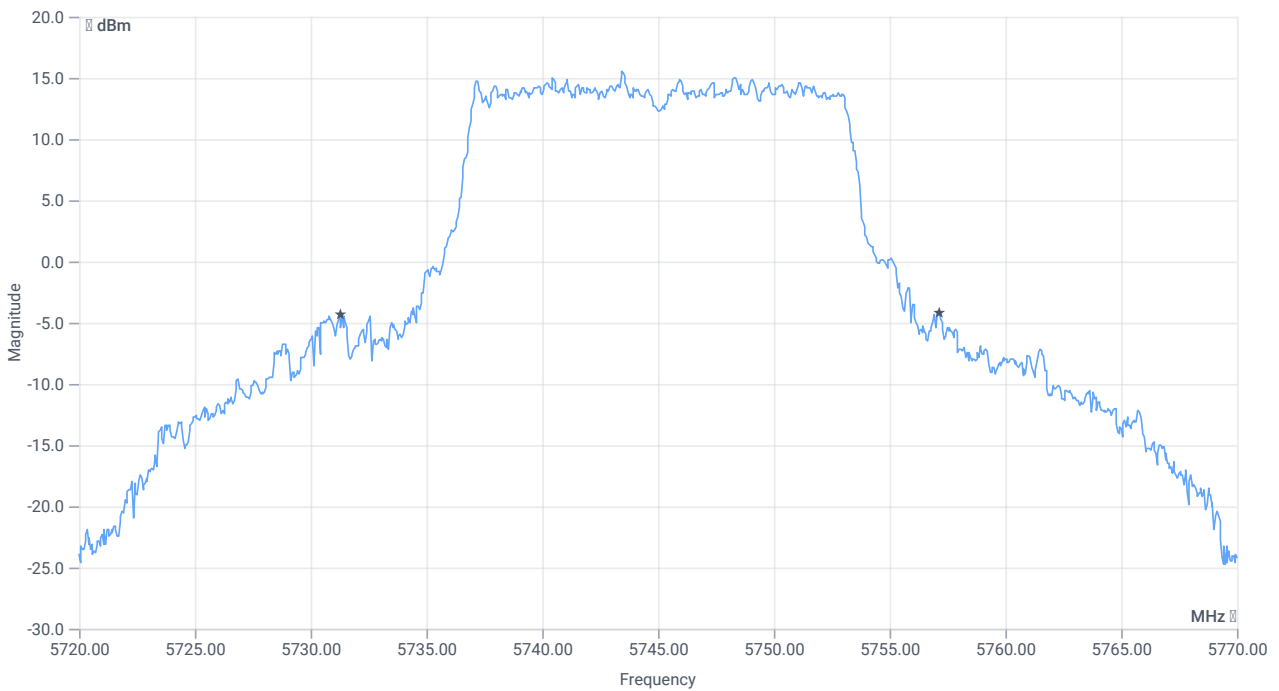




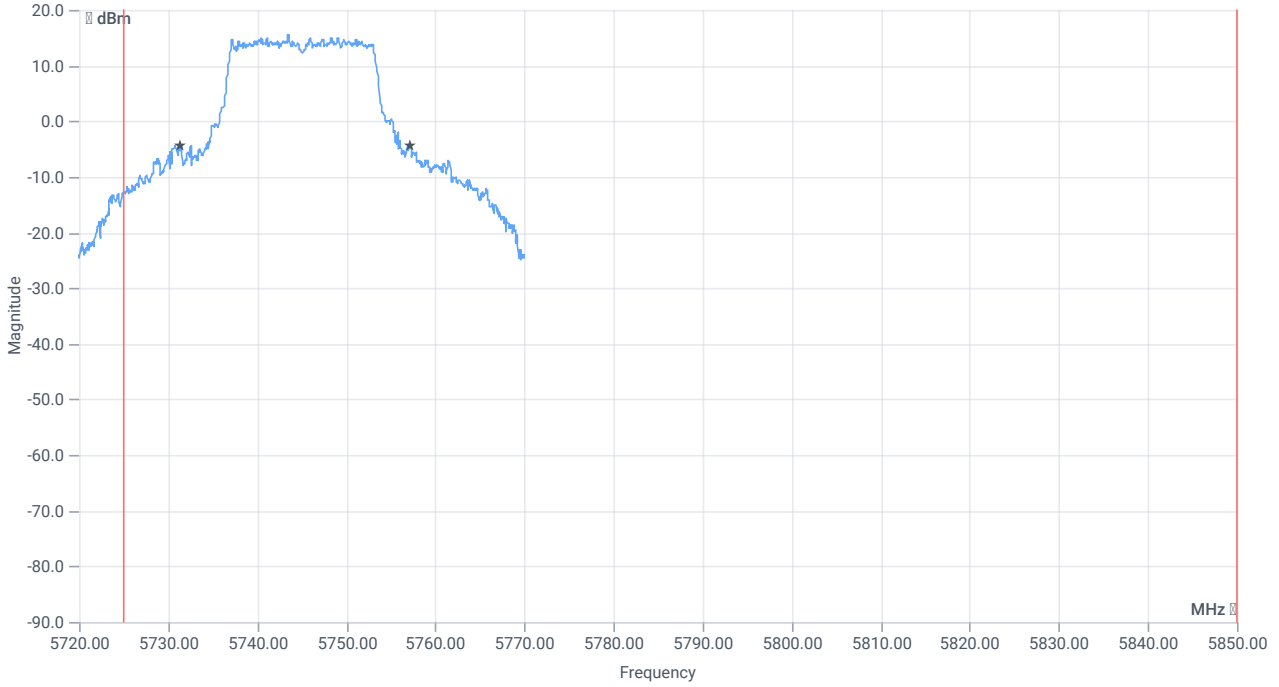
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	20.13	MHz	INFO
T1 99%	5725.000000	--	5734.9600	MHz	PASS
T2 99%	--	5850.000000	5755.0899	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	25.9	MHz	INFO
T1 20dB	5725.000000	---	5731.2500	MHz	PASS
T2 20dB	---	5850.000000	5757.1500	MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

TC start	02.08.2023 15:17:42
Ambit temp [°C]   humidity [rel%]	24.9   56
System version	4.6.0.3
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

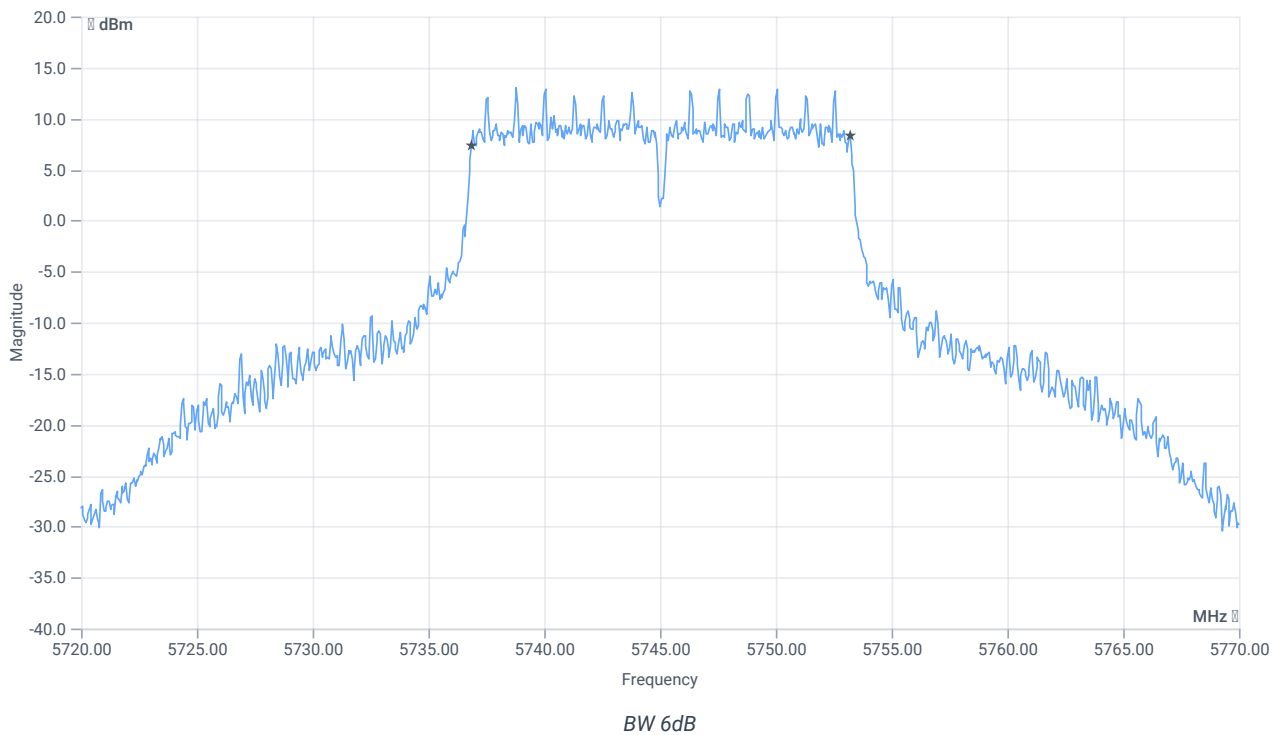
## Test at TX 5745 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.69	dBm	INFO
Ref. Frequency	--	--	5740.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.69   16.72   35
Start [MHz]   Stop [MHz]	5720.000   5770.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	2   1500   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.35	MHz	PASS

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:11:03
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5745 MHz

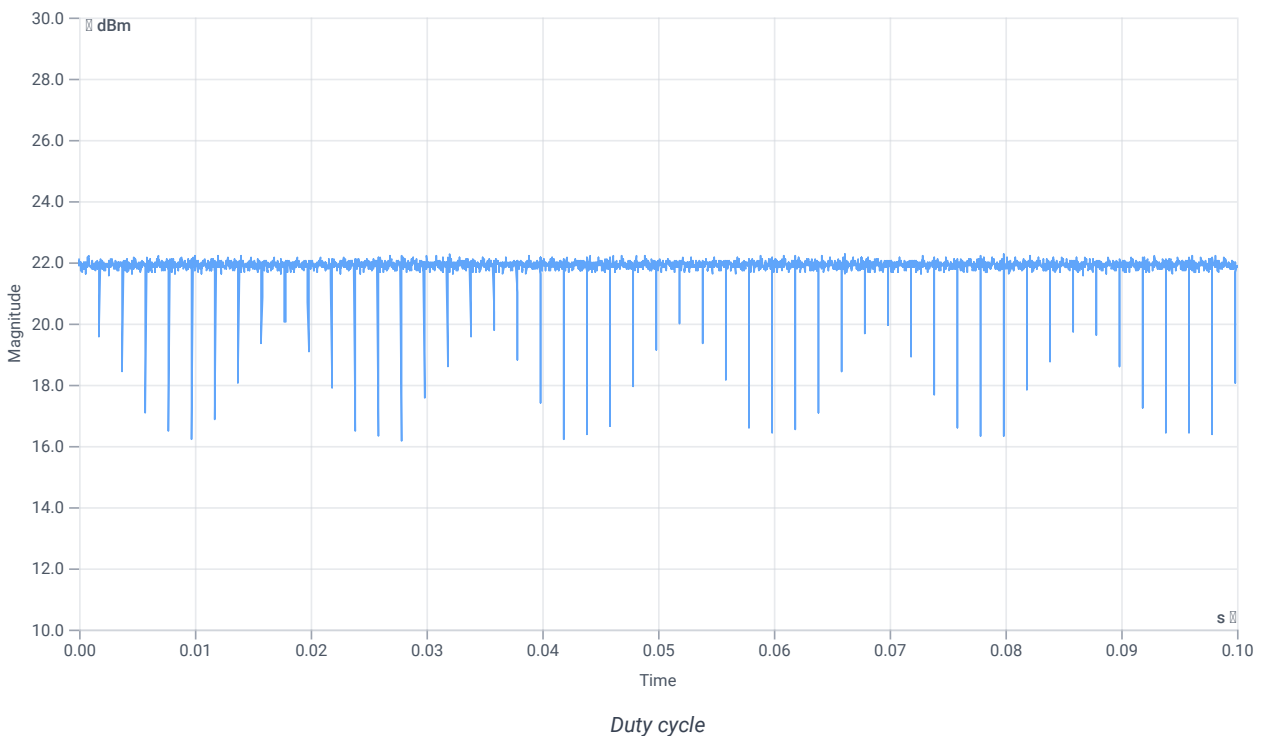
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.68	dBm	INFO
Ref. Frequency	--	--	5748.800	MHz	INFO

## Evaluation max. Duty Cycle

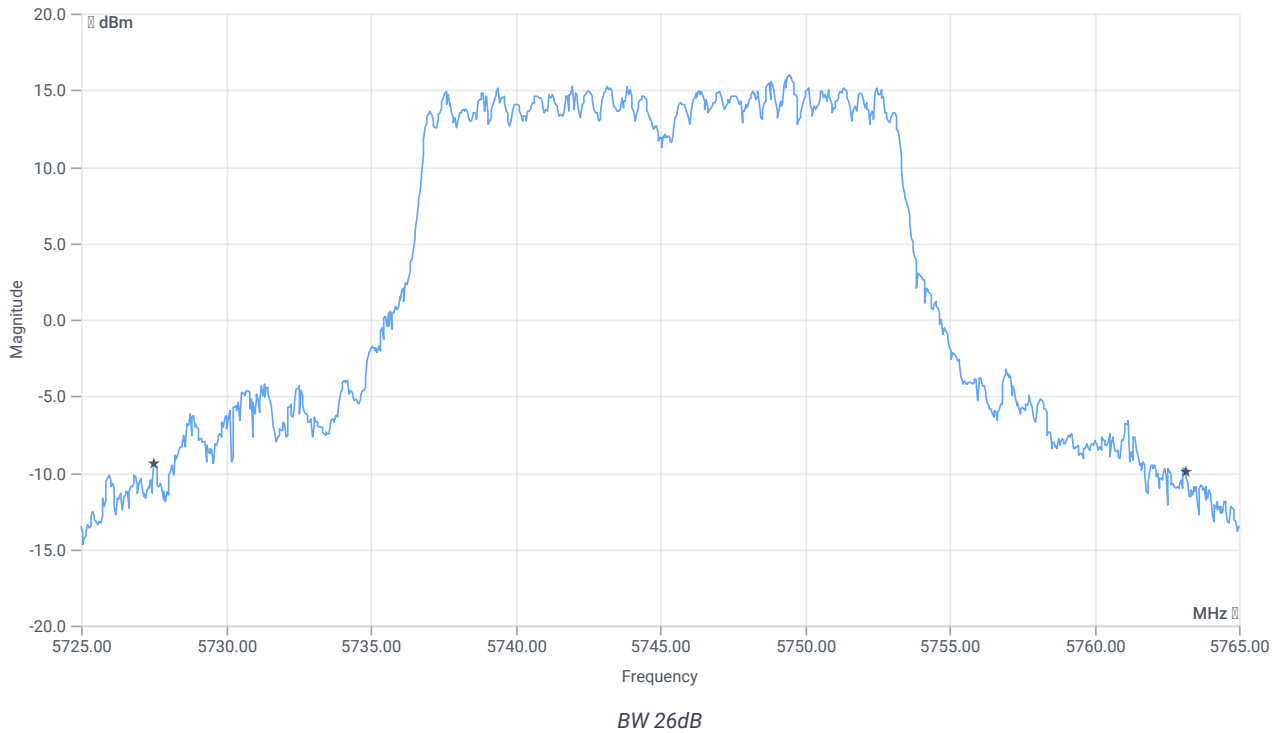
### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth





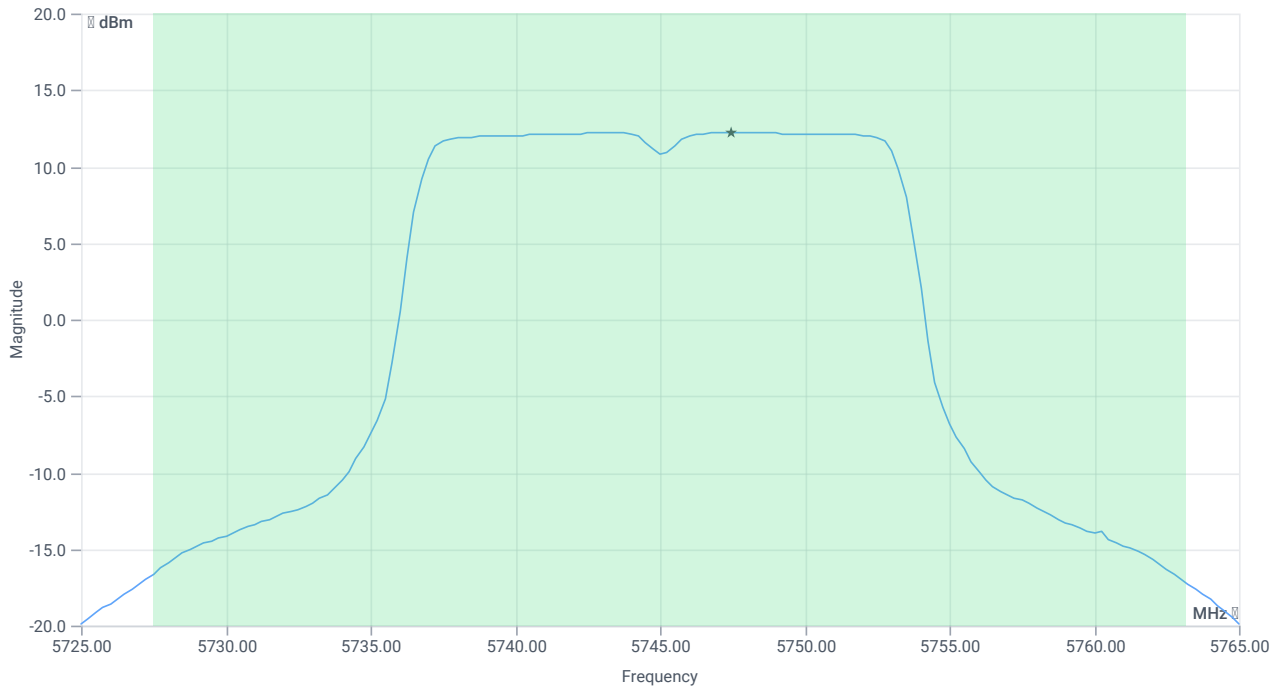
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	35.64	MHz	INFO
T1 26dB	--	--	5727.5200	MHz	INFO
T2 26dB	--	--	5763.1600	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.68   16.72   30
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

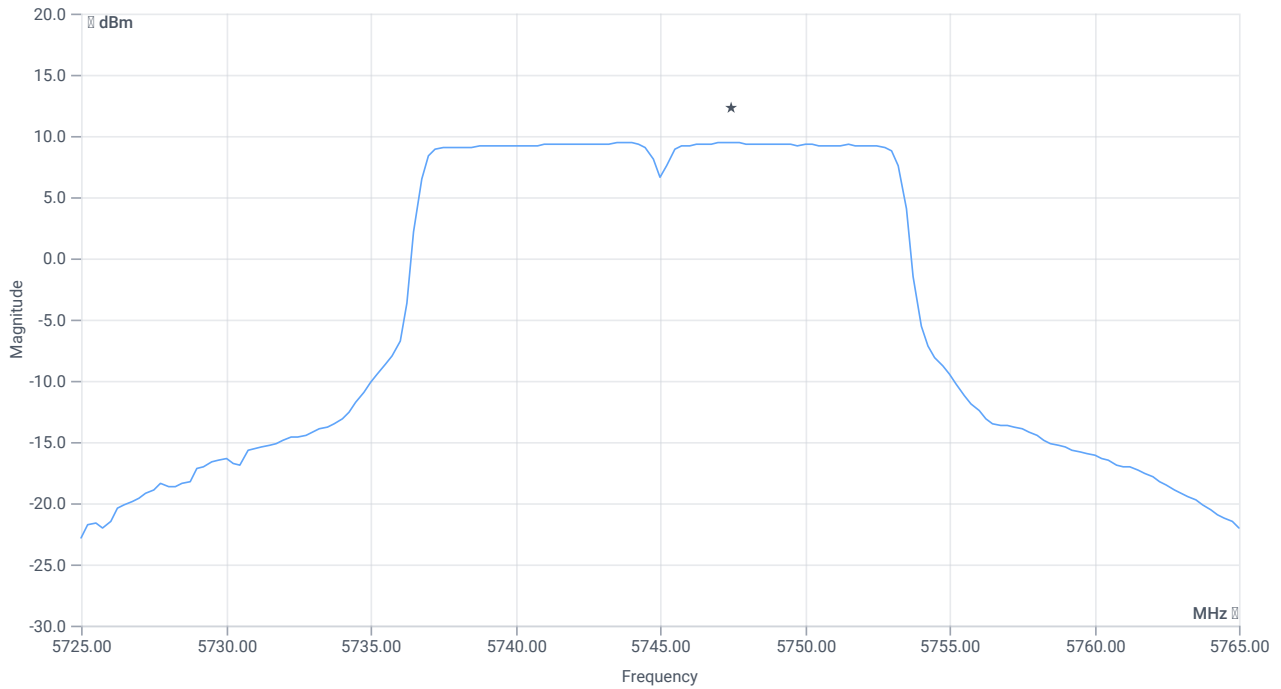
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	23.96	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	23.96	dBm	PASS
Limit: 11 dBm + 10 log 35.64					
Max Output Power DC corrected	--	26.52	23.96	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.68   16.72   35
Start [MHz]   Stop [MHz]	5725.000   5765.000
RBW [MHz]   VBW [MHz]	0.500000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



PSD UNII-3

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	9.45	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	9.45	dBm/0.5MHz	PASS

Verdict

PASS

# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

## References

TC start	01.08.2023 14:13:36
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3
Information	PS96

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

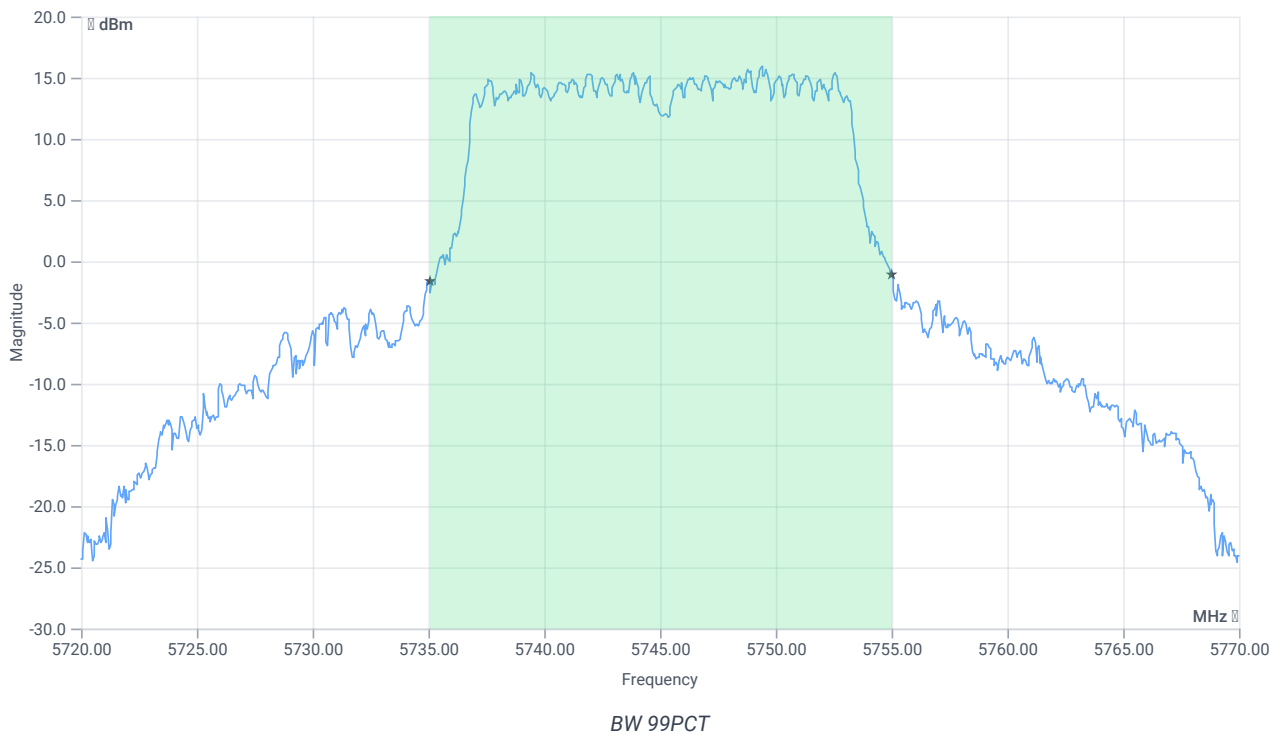
## Test at TX 5745 MHz

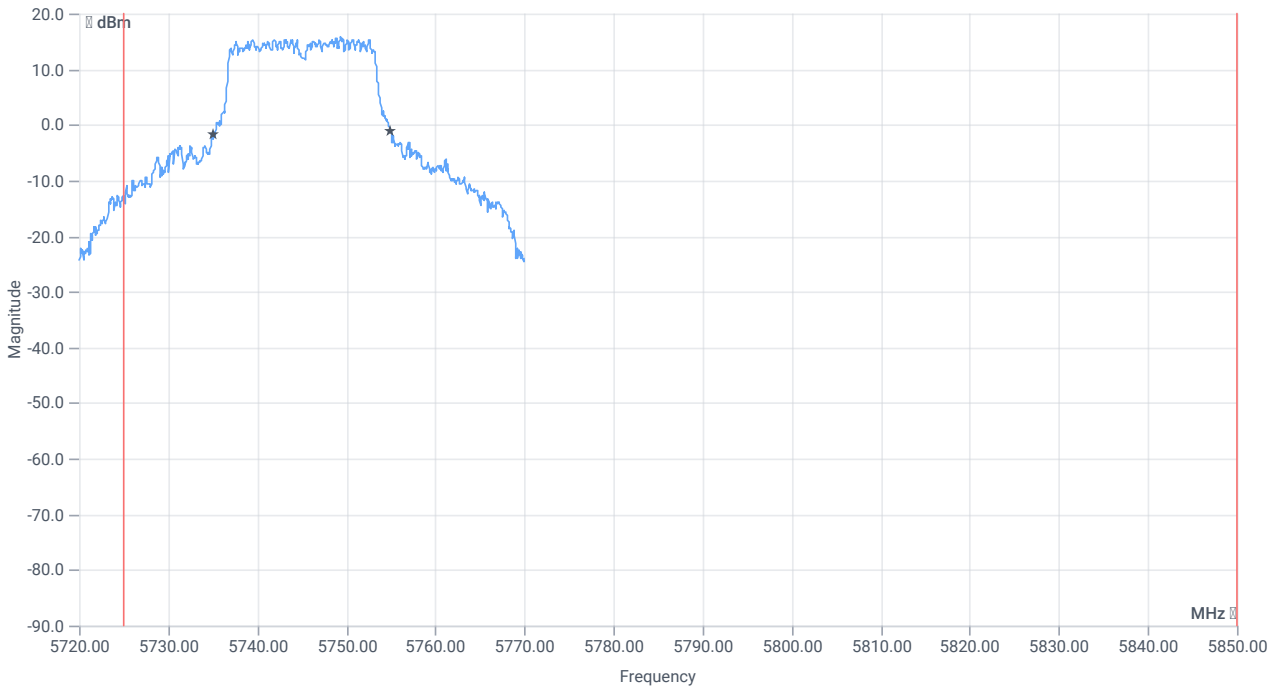
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	21.21	dBm	INFO
Ref. Frequency	--	--	5749.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	29.21   16.72   30
Start [MHz]   Stop [MHz]	5720.000   5770.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

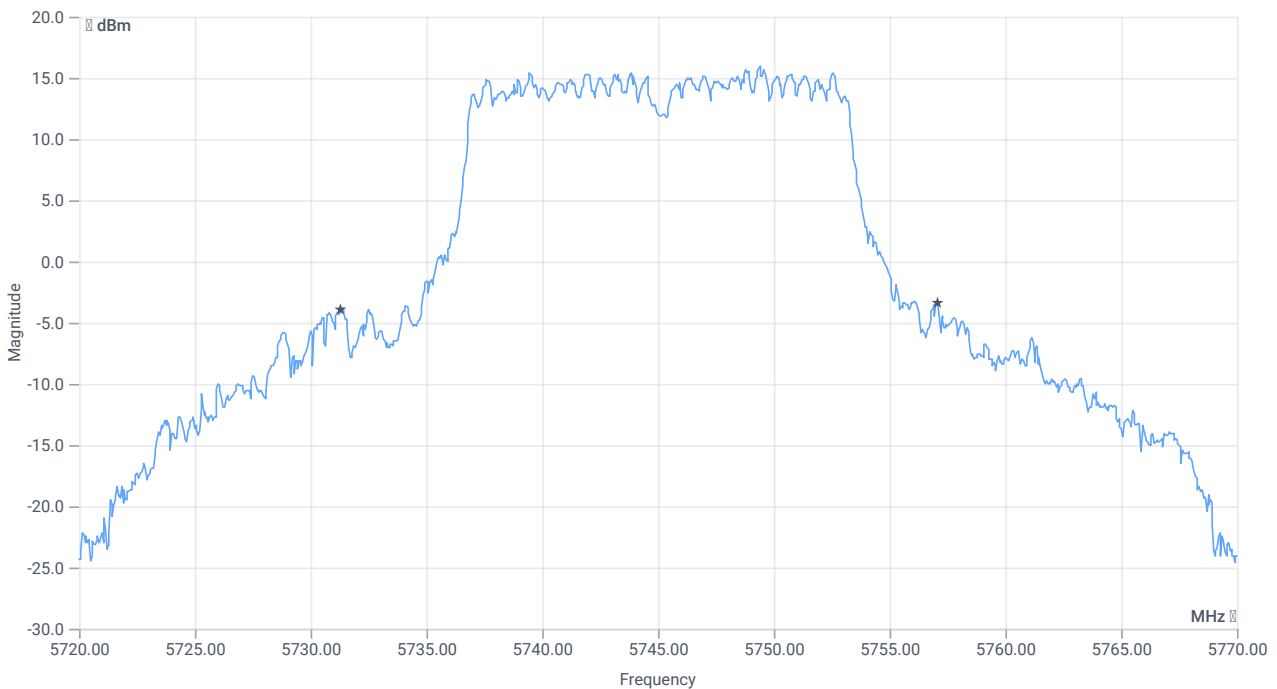




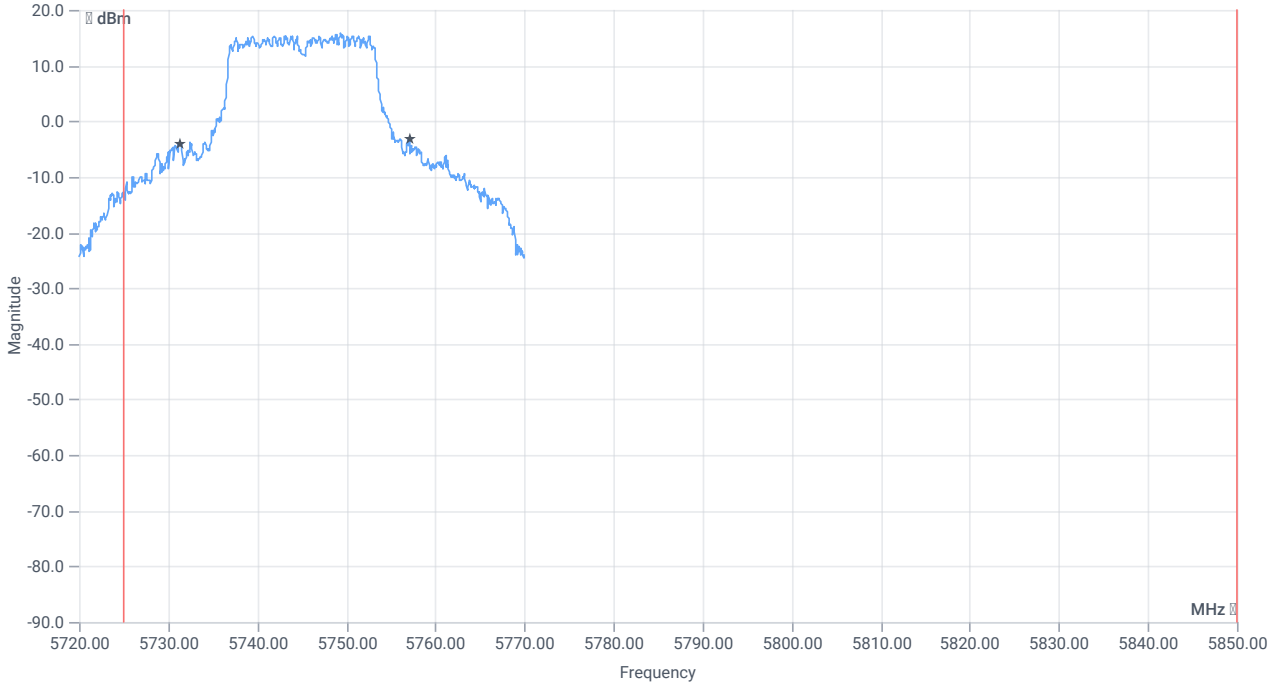
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	19.93	MHz	INFO
T1 99%	5725.000000	--	5735.0599	MHz	PASS
T2 99%	--	5850.000000	5754.9900	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	25.85	MHz	INFO
T1 20dB	5725.000000	---	5731.2500	MHz	PASS
T2 20dB	---	5850.000000	5757.1000	MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:14:10
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI



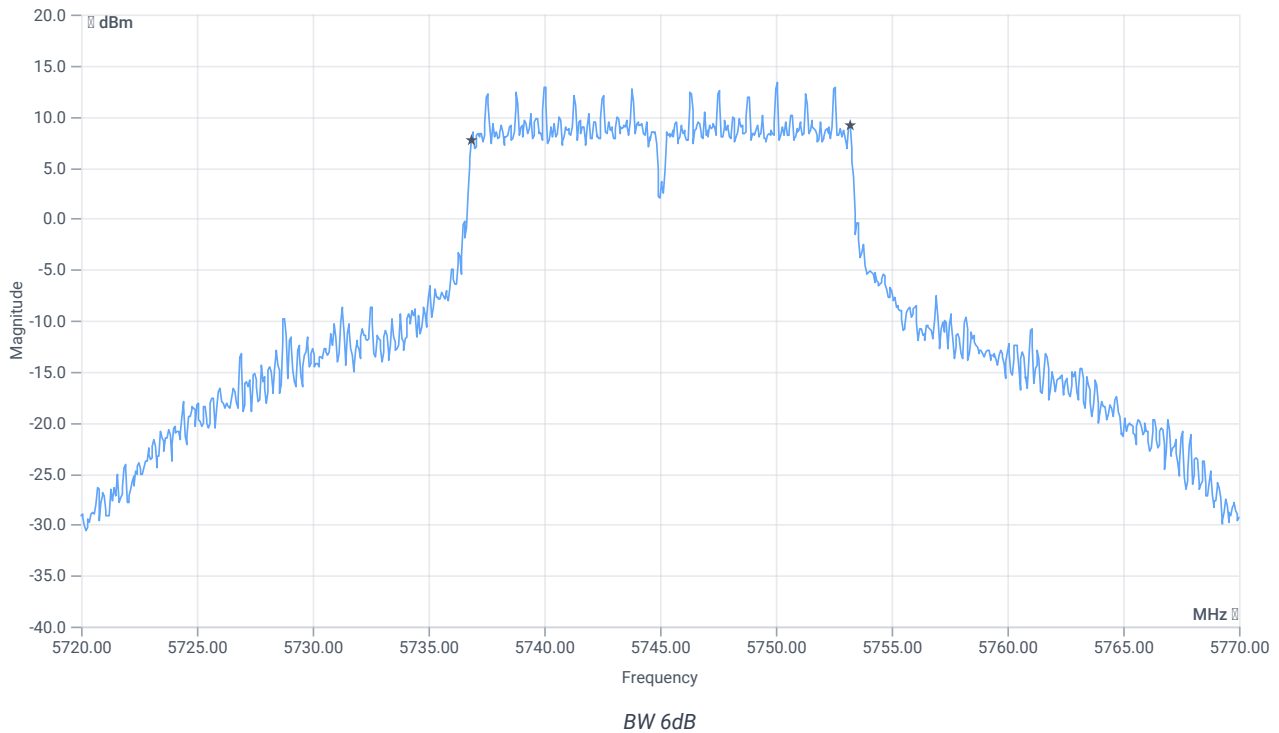
## Test at TX 5745 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.83	dBm	INFO
Ref. Frequency	--	--	5743.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.83   16.72   35
Start [MHz]   Stop [MHz]	5720.000   5770.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	2   1500   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.35	MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:14:55
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-3
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

## Test at TX 5745 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	23.99	dBm	INFO
Ant:1 BW 26dB	--	--	35.520	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	23.96	dBm	INFO
Ant:2 BW 26dB	--	--	35.640	MHz	INFO
Σ Limit absolute	--	30	26.99	dBm	PASS
Σ Limit: 11 dBm + 10 log 35.52	--	26.5	26.99	dBm	na

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	9.11	dBm/0.5MHz	INFO
Ant:2 PSD	--	--	9.45	dBm/0.5MHz	INFO
Σ	--	30	12.29	dBm/0.5MHz	PASS

Verdict

PASS

## NA # Message with SA scan ~

### References

TC start	01.08.2023 14:25:19
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	NA   NI
Method	
Description	Message with SA Scan a_mode_U_NII_3
Information	PS96

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	01.08.2023 14:25:19
Message	set WLAN5Gx to a_mode_U_NII_3, Frequency [MHz] 5785 , Information: PS96

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70  
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:25:28
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5785 MHz

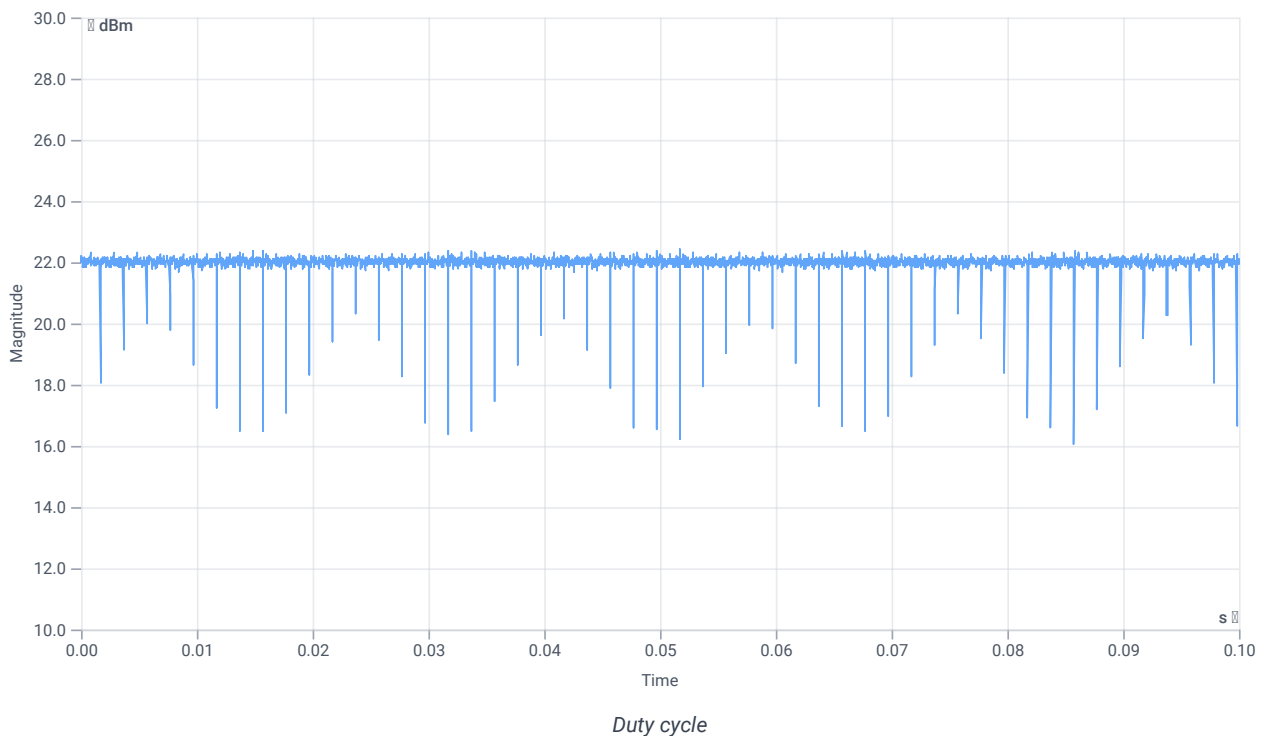
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.60	dBm	INFO
Ref. Frequency	--	--	5786.800	MHz	INFO

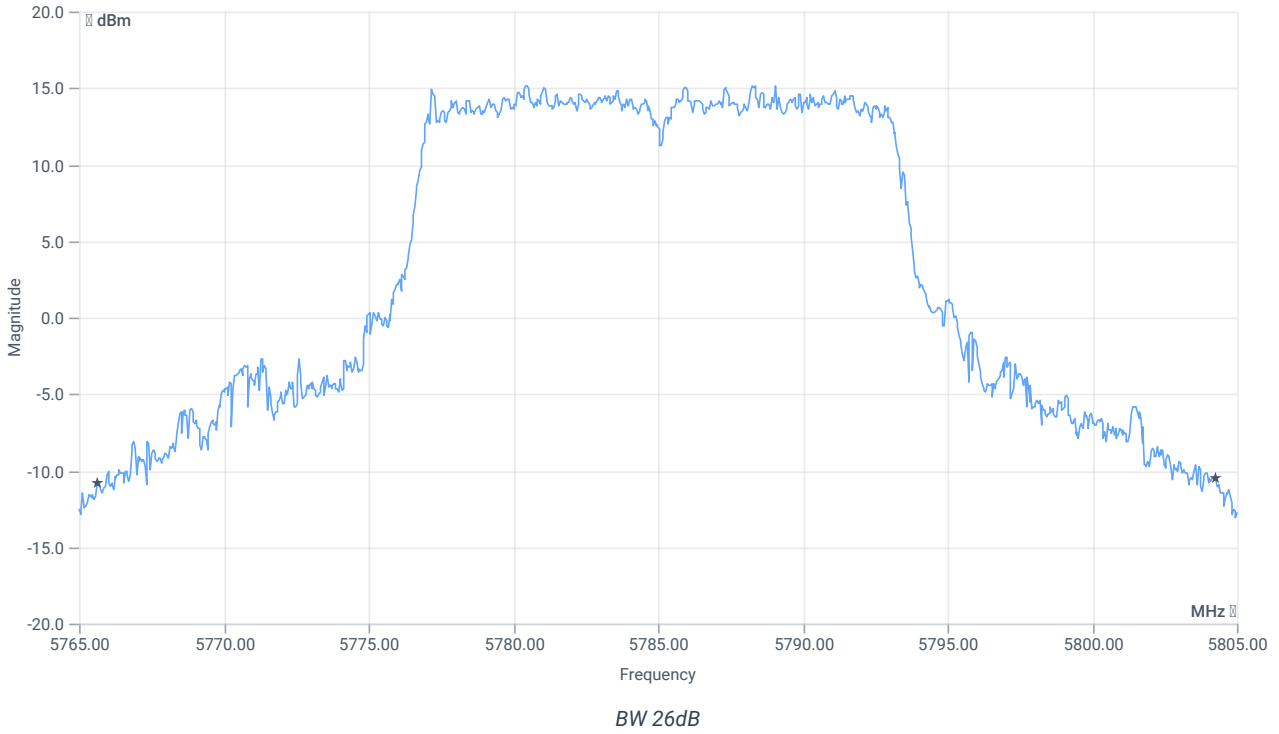
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



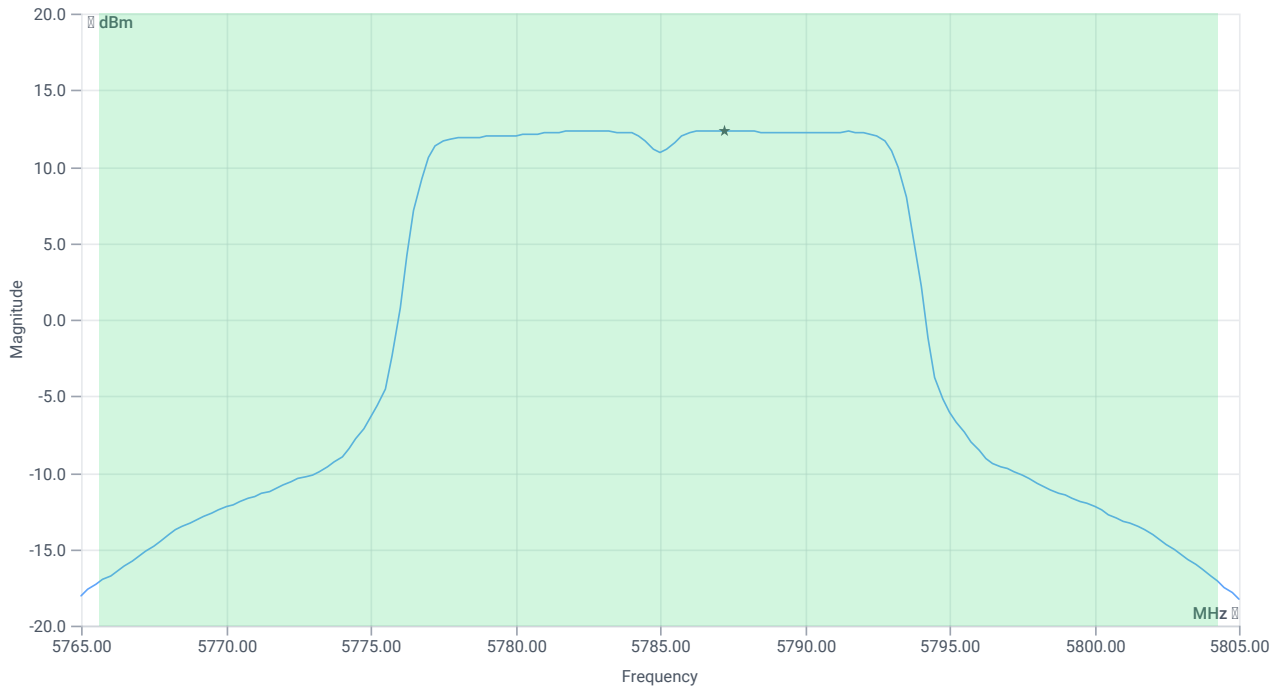
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	38.68	MHz	INFO
T1 26dB	---	---	5765.6000	MHz	INFO
T2 26dB	---	---	5804.2800	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.60   16.7   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

## RESULT

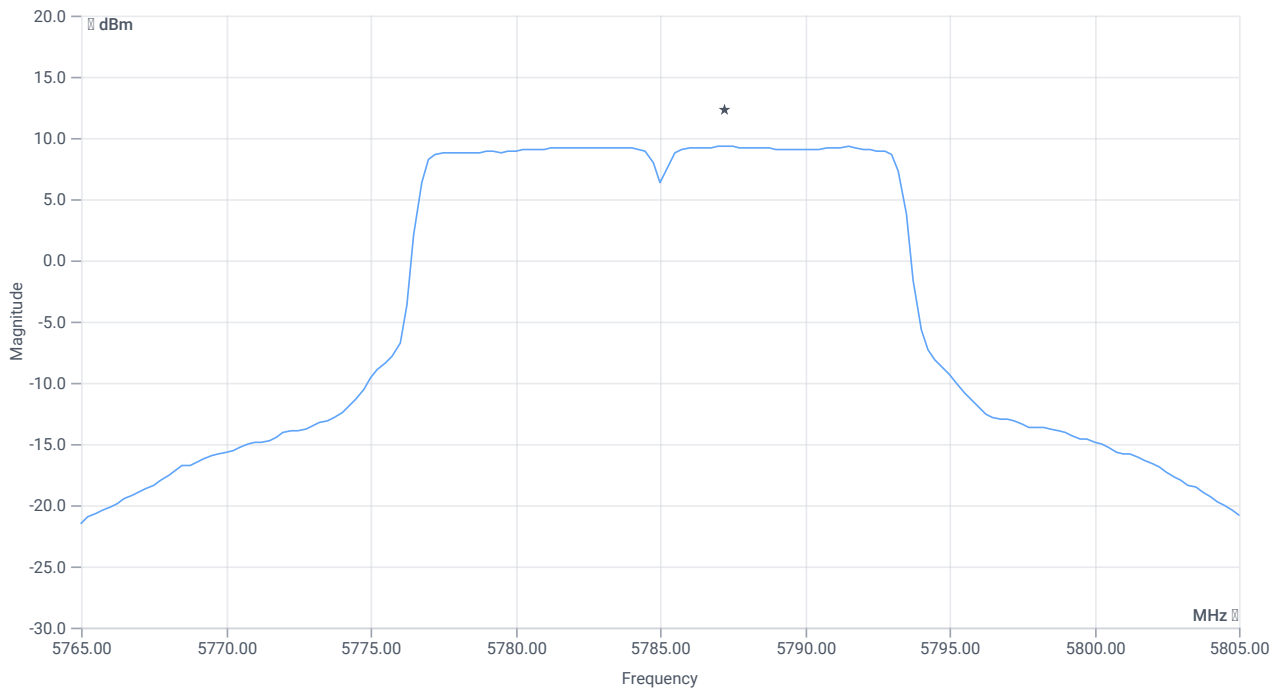
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	24.05	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	24.05	dBm	PASS
Limit: 11 dBm + 10 log 38.68					
Max Output Power DC corrected	--	26.87	24.05	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.60   16.7   35
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	0.500000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE





## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	9.29	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	9.29	dBm/0.5MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:27:57
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

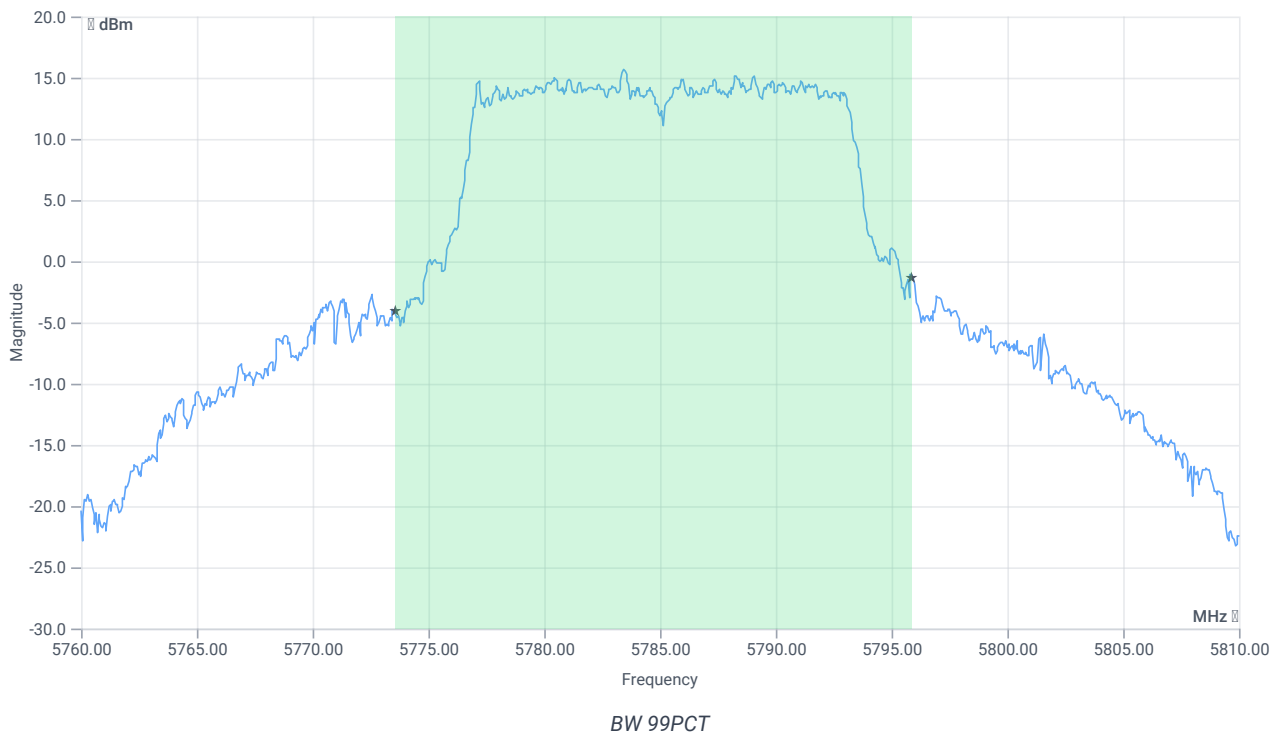
## Test at TX 5785 MHz

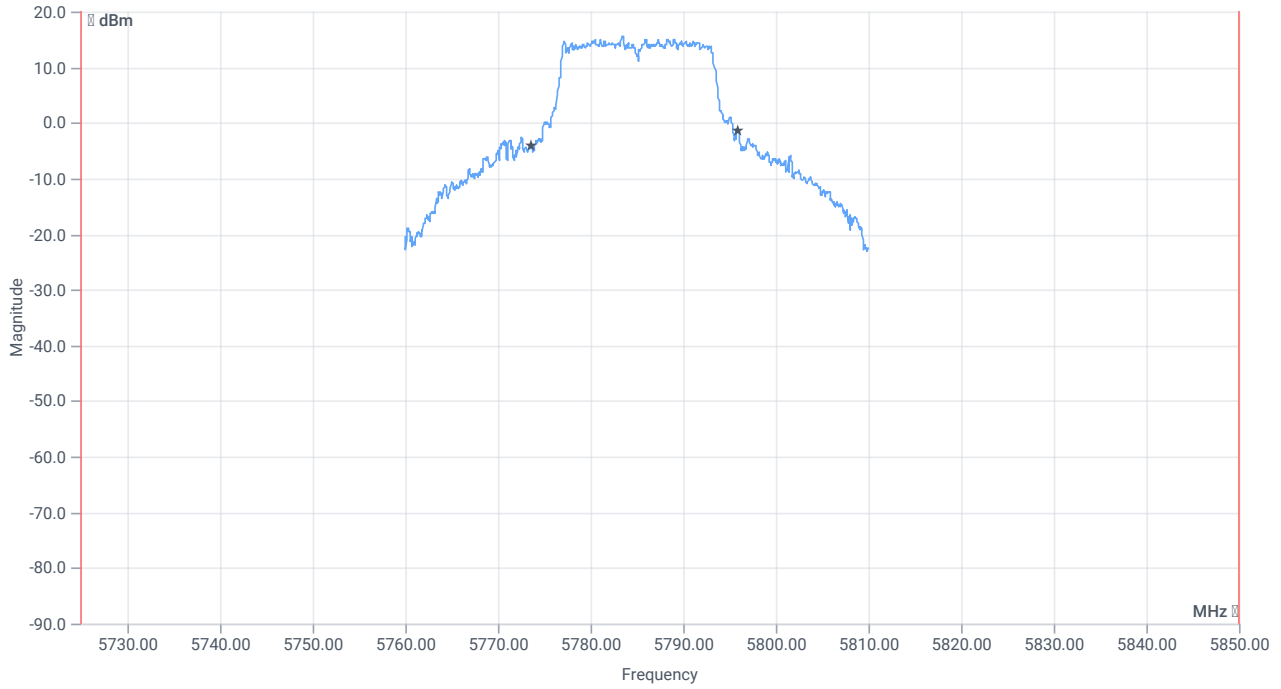
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.51	dBm	INFO
Ref. Frequency	--	--	5787.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.51   16.7   30
Start [MHz]   Stop [MHz]	5760.000   5810.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

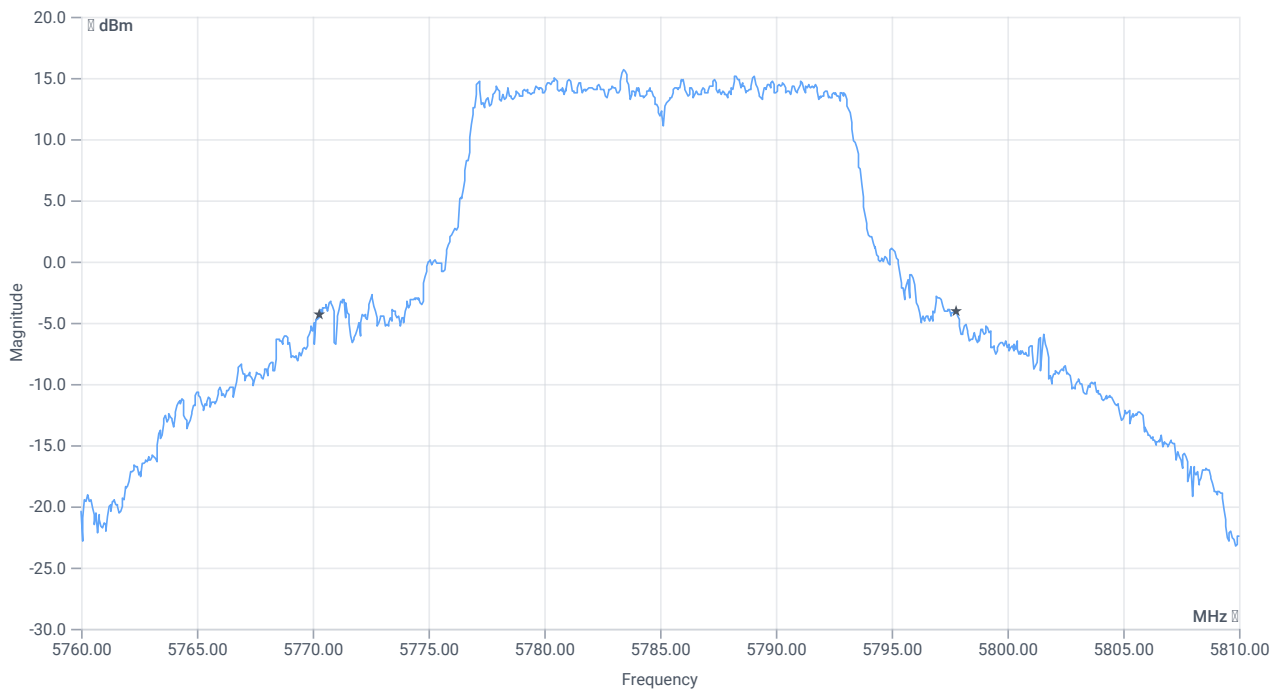




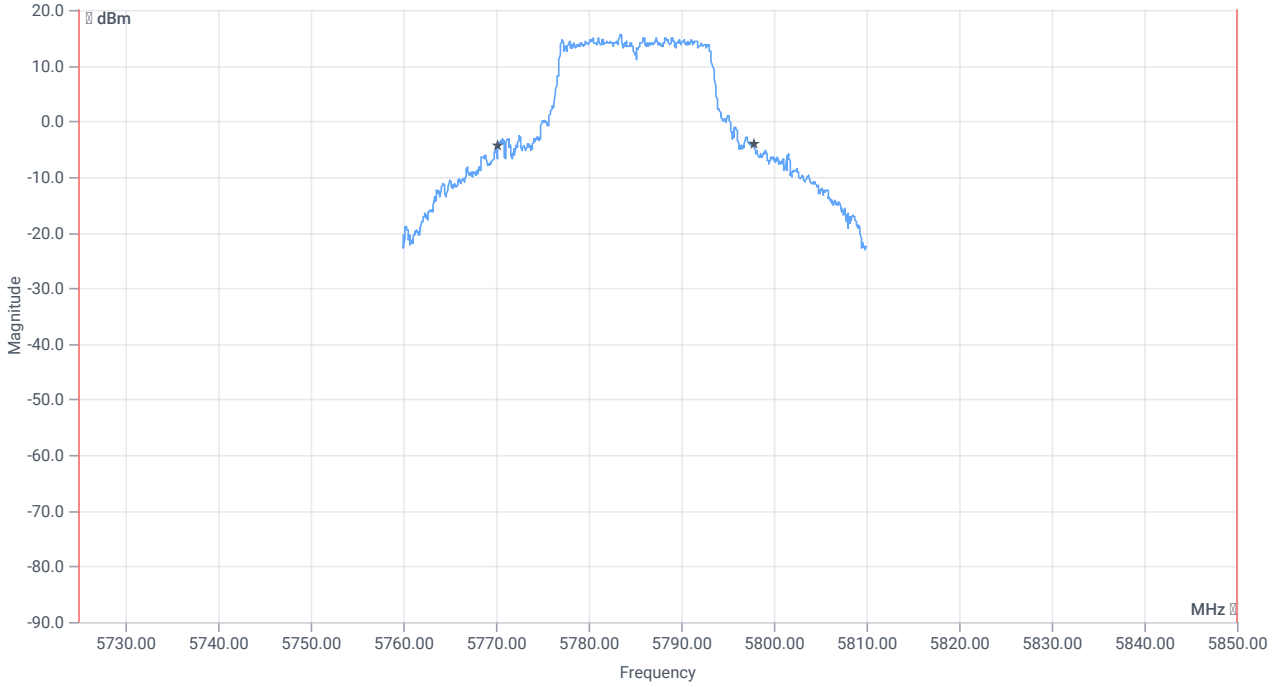
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	22.328	MHz	INFO
T1 99%	5725.000000	--	5773.5614	MHz	PASS
T2 99%	--	5850.000000	5795.8891	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	27.55	MHz	INFO
T1 20dB	5725.000000	--	5770.2500	MHz	PASS
T2 20dB	--	5850.000000	5797.8000	MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:28:30
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

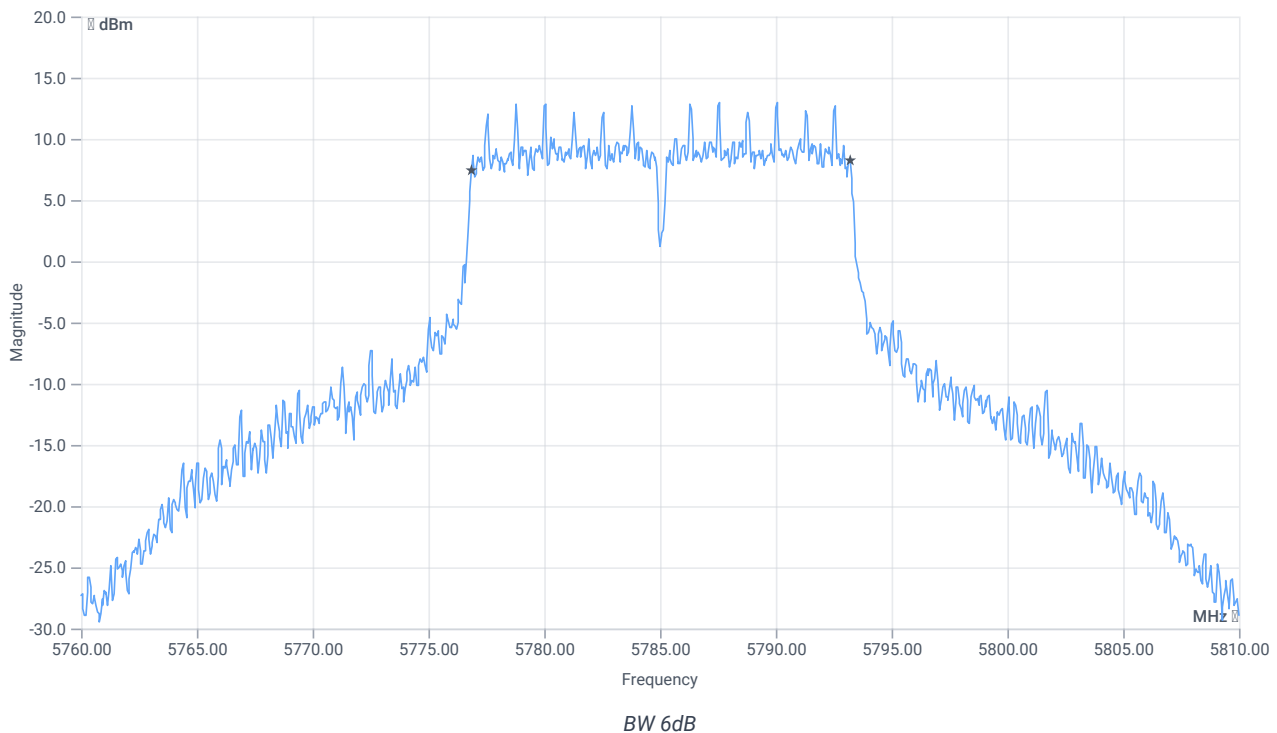
## Test at TX 5785 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.12	dBm	INFO
Ref. Frequency	--	--	5787.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.12   16.7   35
Start [MHz]   Stop [MHz]	5760.000   5810.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	2   1500   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.35	MHz	PASS

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:29:20
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI



## Test at TX 5785 MHz

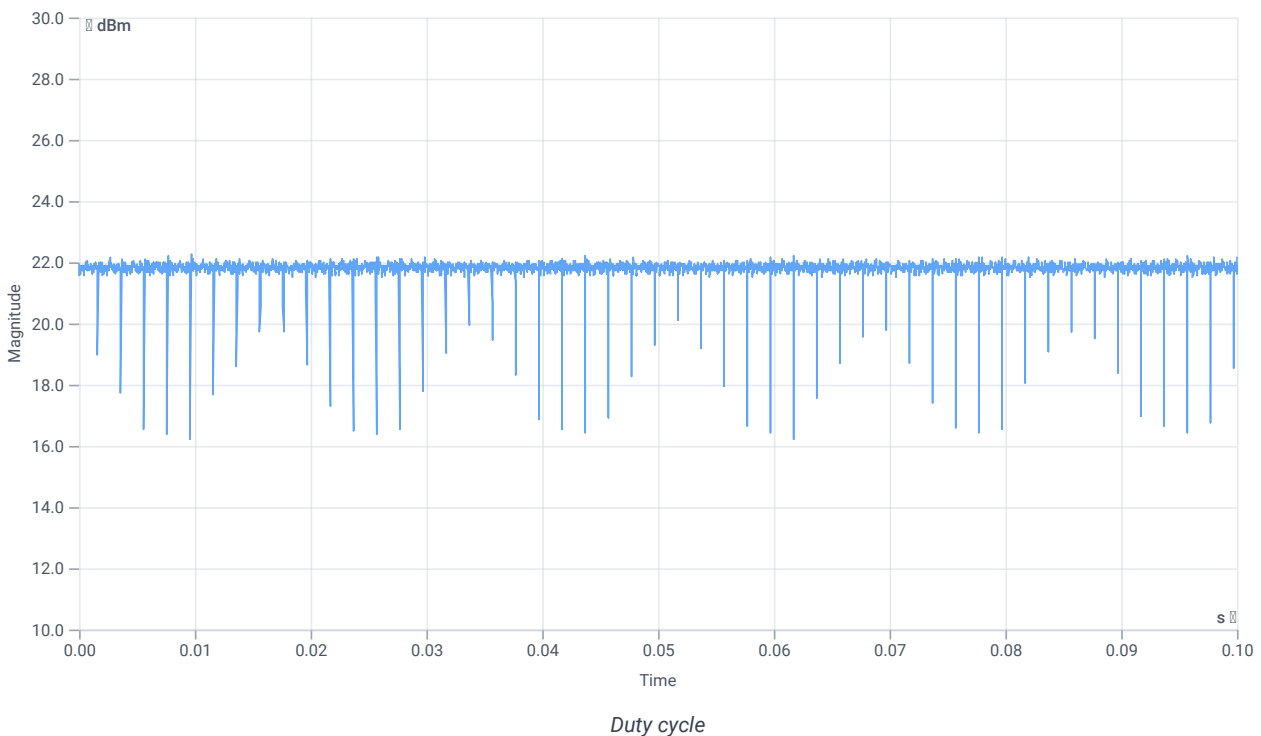
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.28	dBm	INFO
Ref. Frequency	--	--	5780.600	MHz	INFO

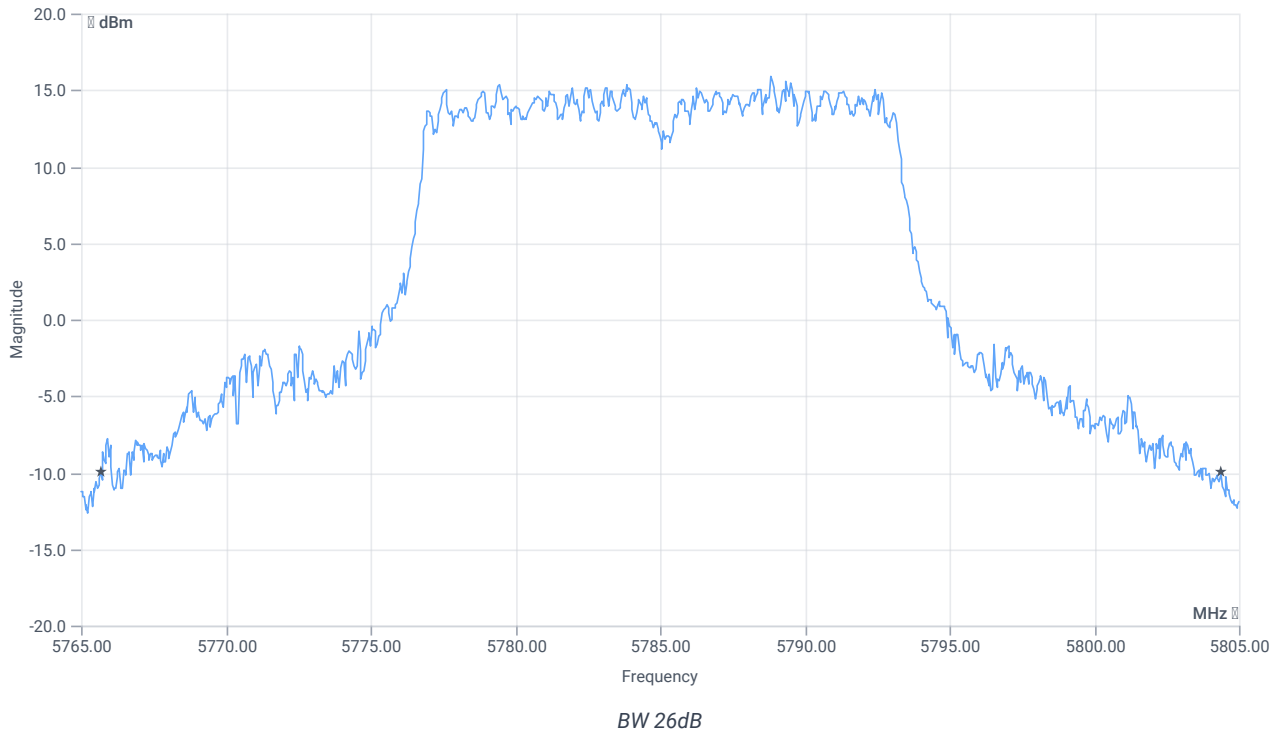
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



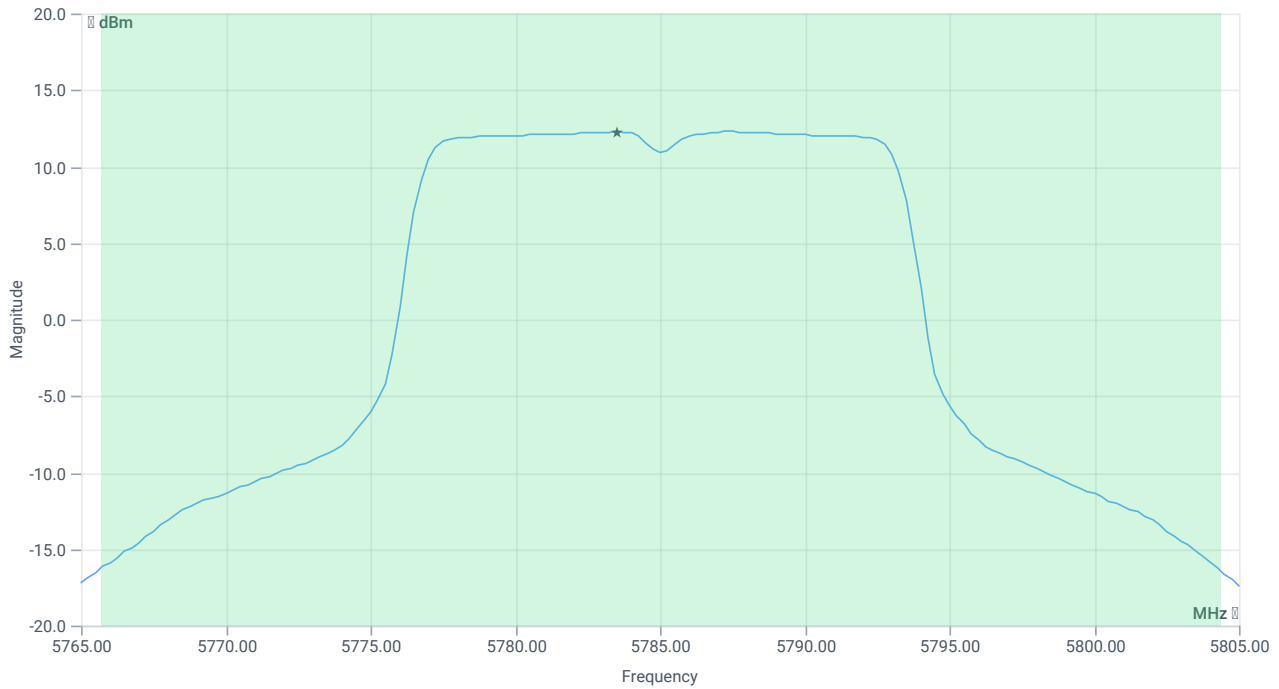
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	38.72	MHz	INFO
T1 26dB	---	---	5765.6800	MHz	INFO
T2 26dB	---	---	5804.4000	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.28   16.7   30
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

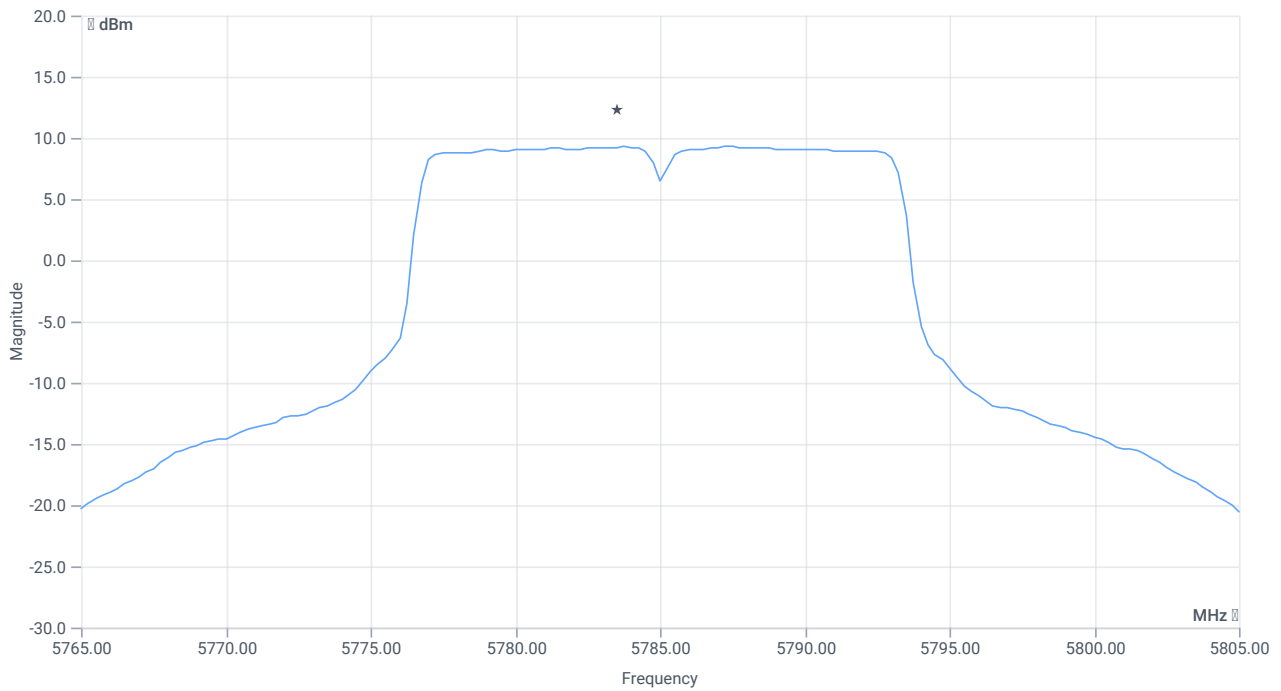
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	23.96	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	23.96	dBm	PASS
Limit: 11 dBm + 10 log 38.72					
Max Output Power DC corrected	--	26.88	23.96	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.28   16.7   35
Start [MHz]   Stop [MHz]	5765.000   5805.000
RBW [MHz]   VBW [MHz]	0.500000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	9.29	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	9.29	dBm/0.5MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:31:49
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

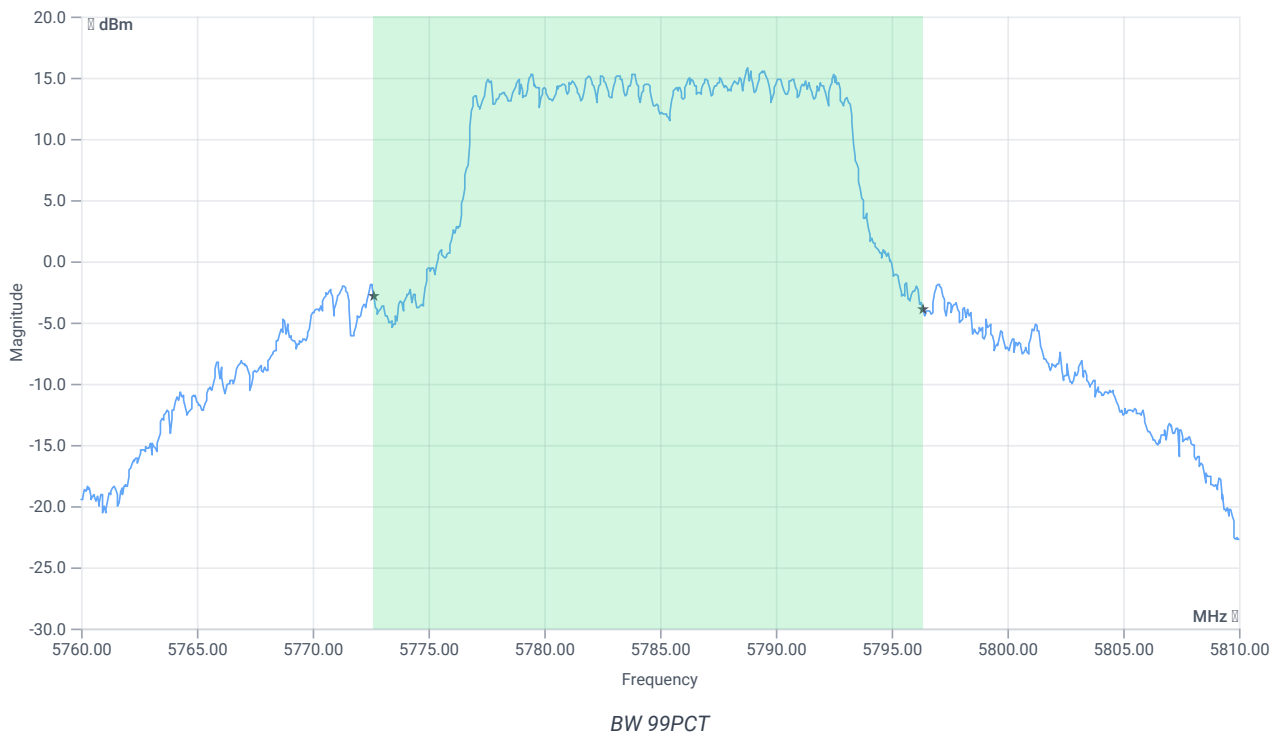
## Test at TX 5785 MHz

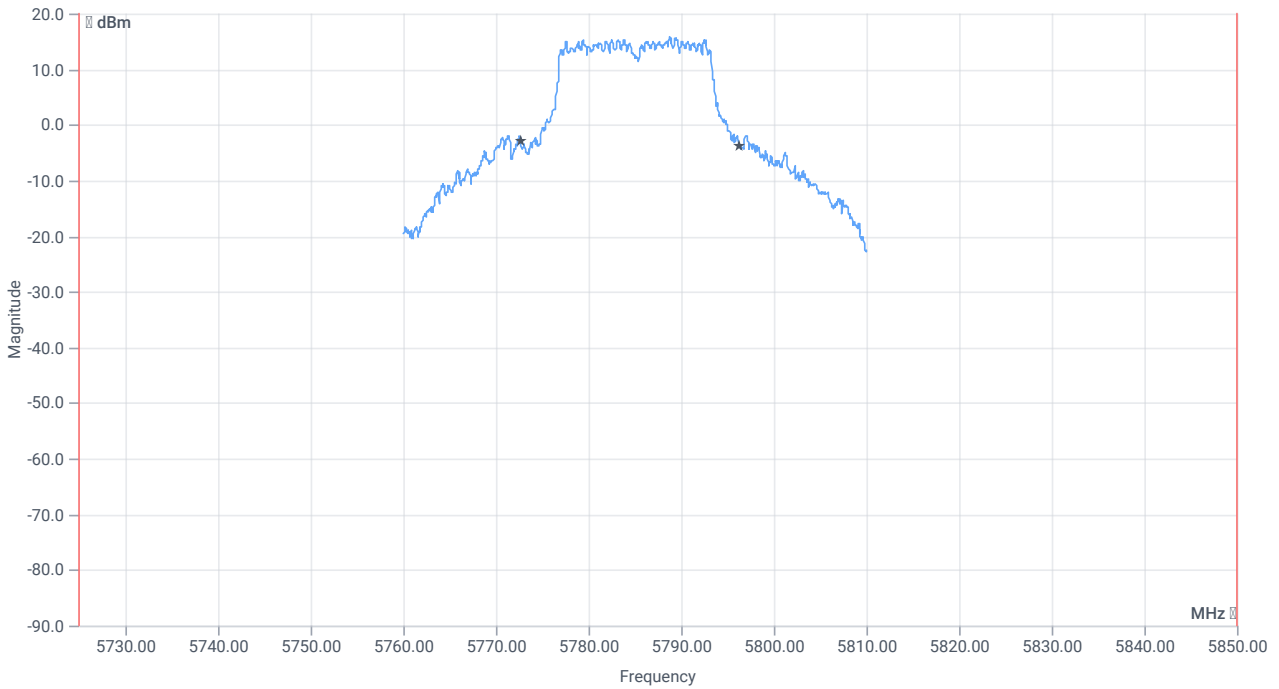
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.64	dBm	INFO
Ref. Frequency	--	--	5783.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.64   16.7   30
Start [MHz]   Stop [MHz]	5760.000   5810.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

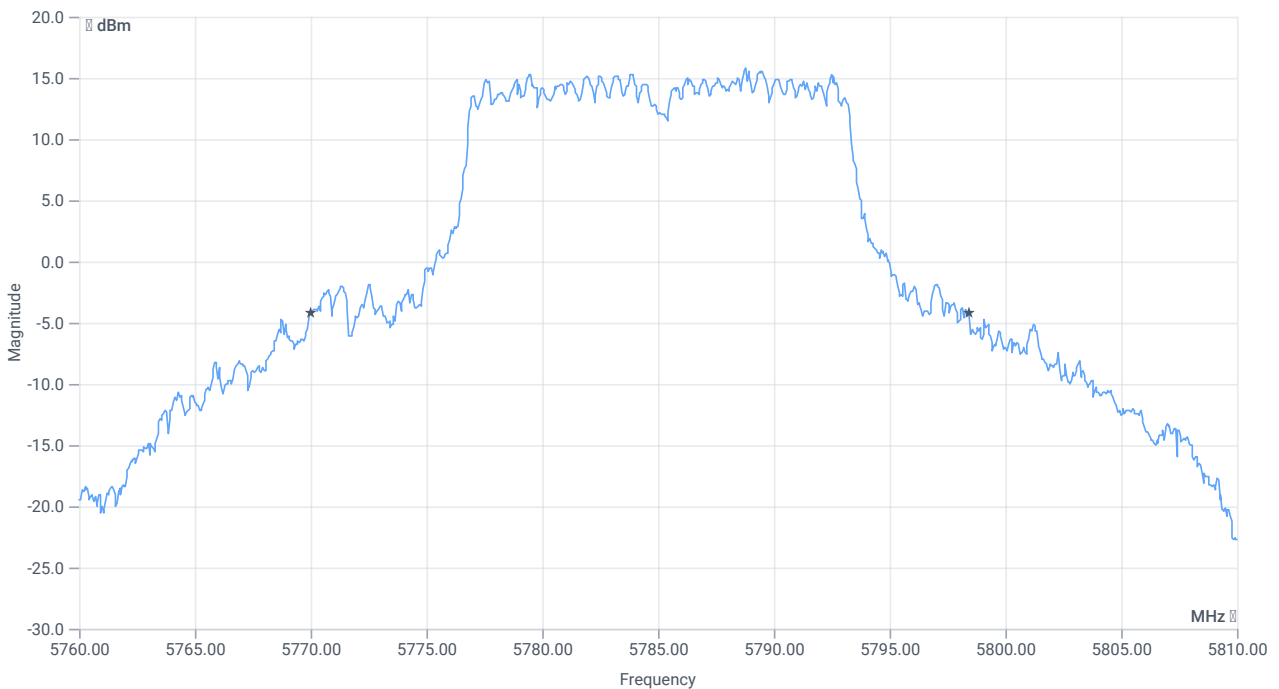




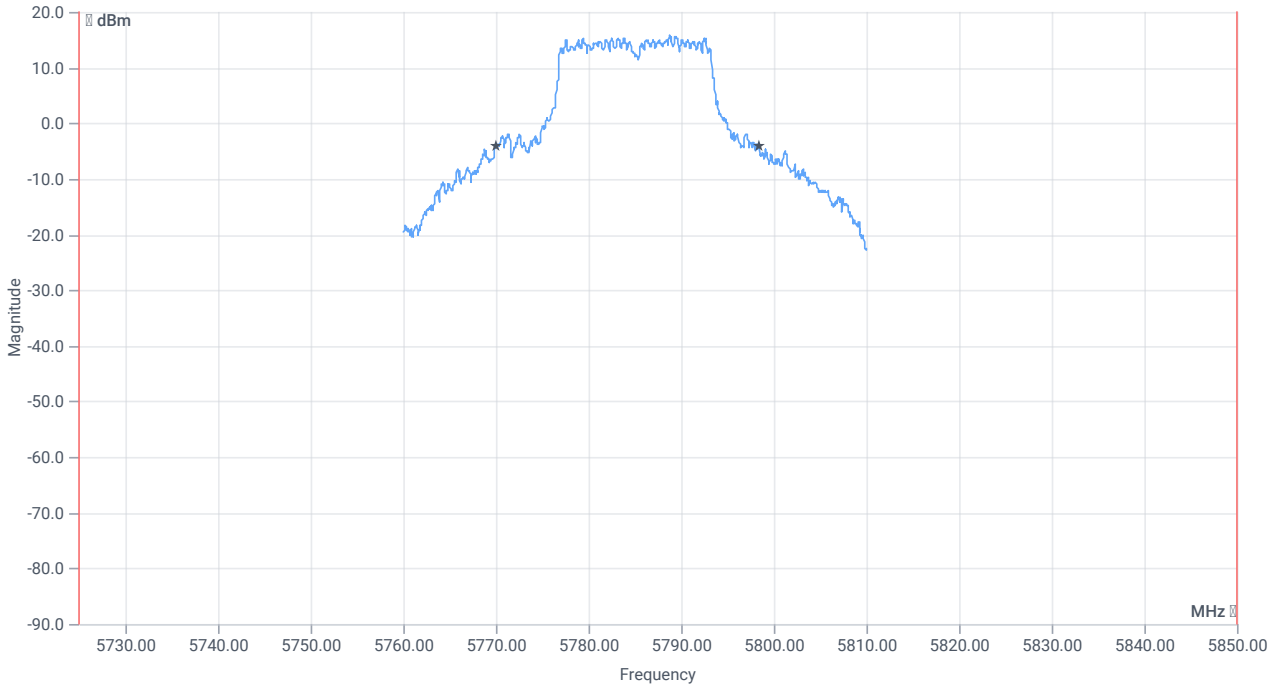
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	23.676	MHz	INFO
T1 99%	5725.000000	--	5772.6623	MHz	PASS
T2 99%	--	5850.000000	5796.3387	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	28.4	MHz	INFO
T1 20dB	5725.000000	--	5770.0000	MHz	PASS
T2 20dB	--	5850.000000	5798.4000	MHz	PASS

Verdict

PASS



## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:32:22
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

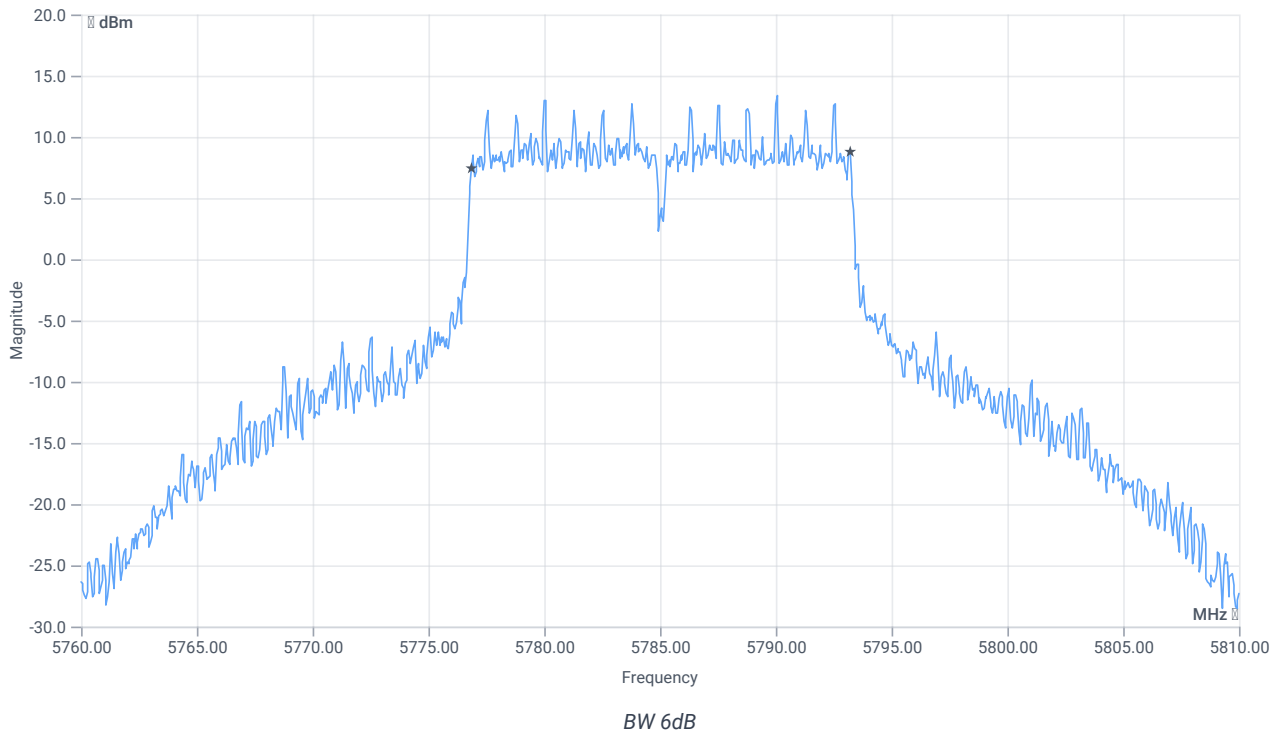
## Test at TX 5785 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.35	dBm	INFO
Ref. Frequency	--	--	5780.600	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.35   16.7   35
Start [MHz]   Stop [MHz]	5760.000   5810.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	2   1500   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.35	MHz	PASS

Verdict

PASS

## FCC 15.407 # MIMO $\Sigma$ Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:33:13
Ambit temp [°C]   humidity [rel%]	25.1   50
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	
Description	MIMO $\Sigma$ FCC Power & psd - WLAN5Gx a mode U-NII-3
Information	

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	True   Freq [MHz] 5785
Frequency high to test	False   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

### Equipment

### Test at TX 5785 MHz

#### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	24.05	dBm	INFO
Ant:1 BW 26dB	--	--	38.680	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	23.96	dBm	INFO
Ant:2 BW 26dB	--	--	38.720	MHz	INFO
Σ Limit absolute	--	30	27.02	dBm	PASS
Σ Limit: 11 dBm + 10 log 38.68	--	26.87	27.02	dBm	na

#### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	9.29	dBm/0.5MHz	INFO
Ant:2 PSD	--	--	9.29	dBm/0.5MHz	INFO
Σ	--	30	12.3	dBm/0.5MHz	PASS

#### Verdict

PASS

## NA # Message with SA scan ~

### References

TC start	01.08.2023 14:36:00
Ambit temp [°C]   humidity [rel%]	25.1   49
System version	4.6.0.1
Standard   Version	NA   NI
Method	
Description	Message with SA Scan a_mode_U_NII_3
Information	PS96

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	01.08.2023 14:36:00
Message	set WLAN5Gx to a_mode_U_NII_3, Frequency [MHz] 5825 Information: PS96

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70  
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

### Verdict

INFO

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:36:19
Ambit temp [°C]   humidity [rel%]	25.1   49
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5825 MHz

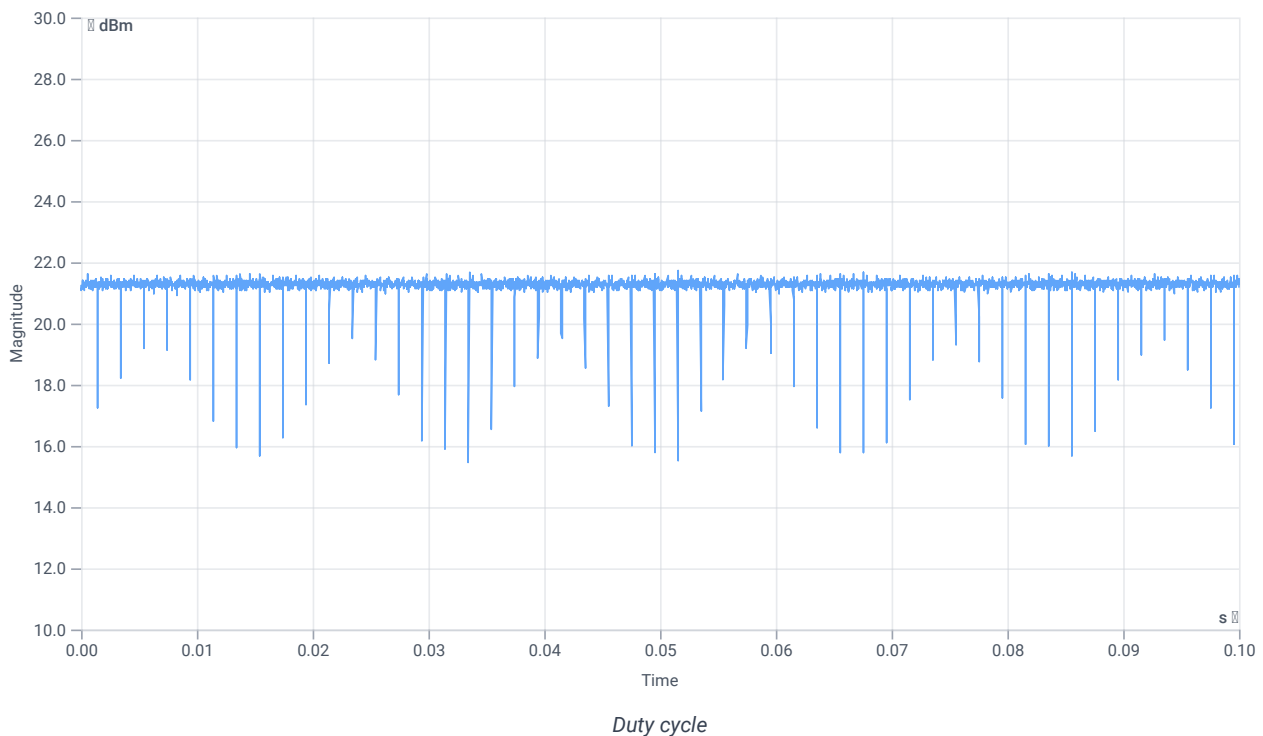
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.09	dBm	INFO
Ref. Frequency	--	--	5826.400	MHz	INFO

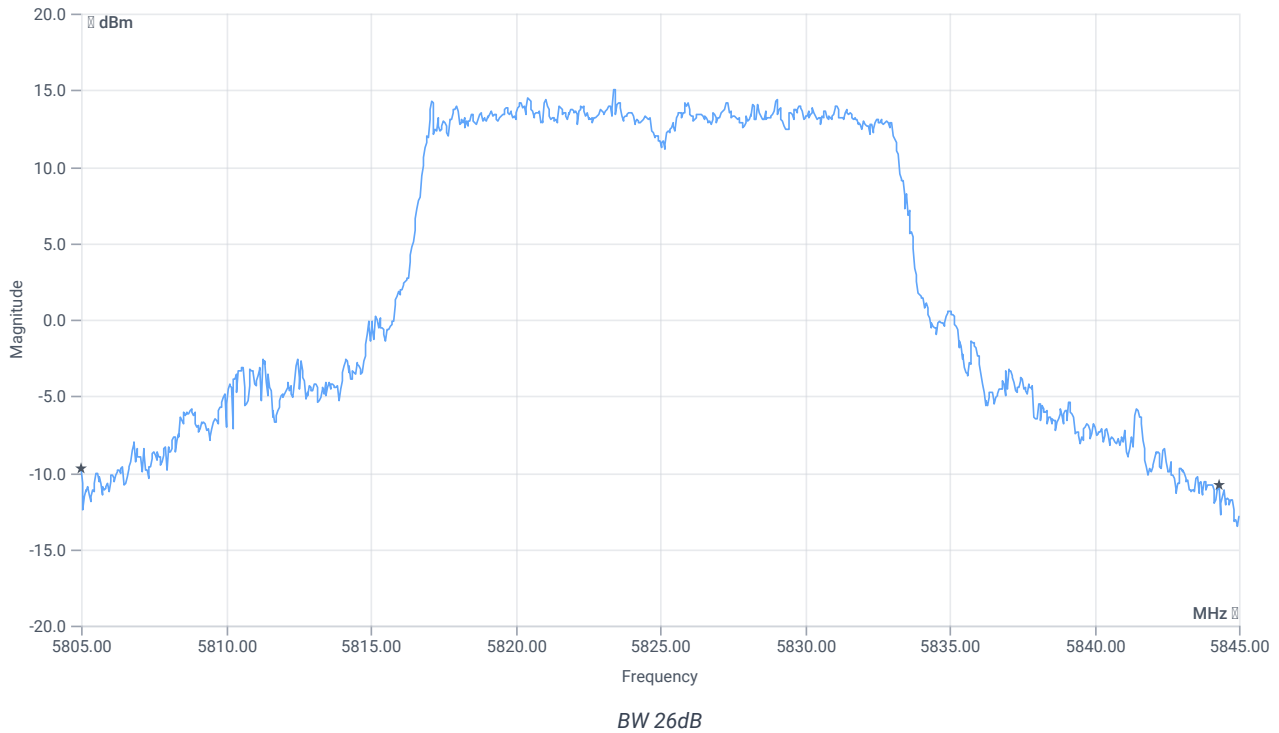
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



## RESULT

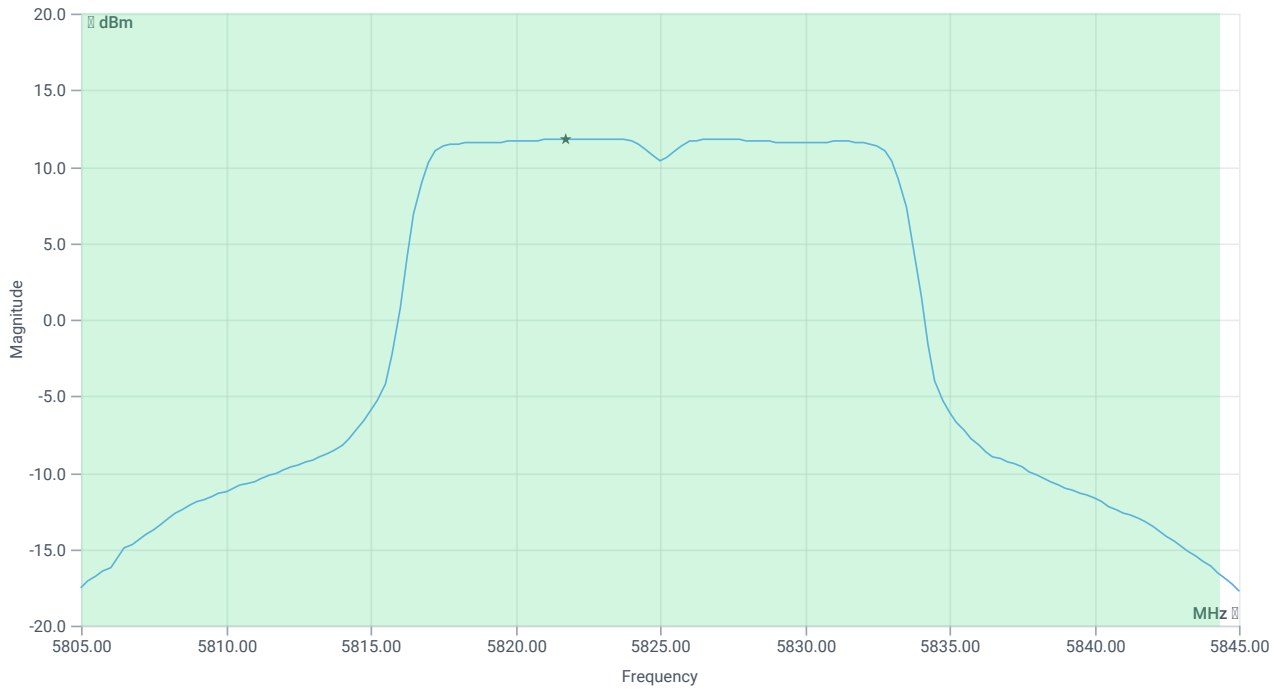
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	39.32	MHz	INFO
T1 26dB	---	---	5805.0000	MHz	INFO
T2 26dB	---	---	5844.3200	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.09   16.68   30
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE





Max OP and PSD

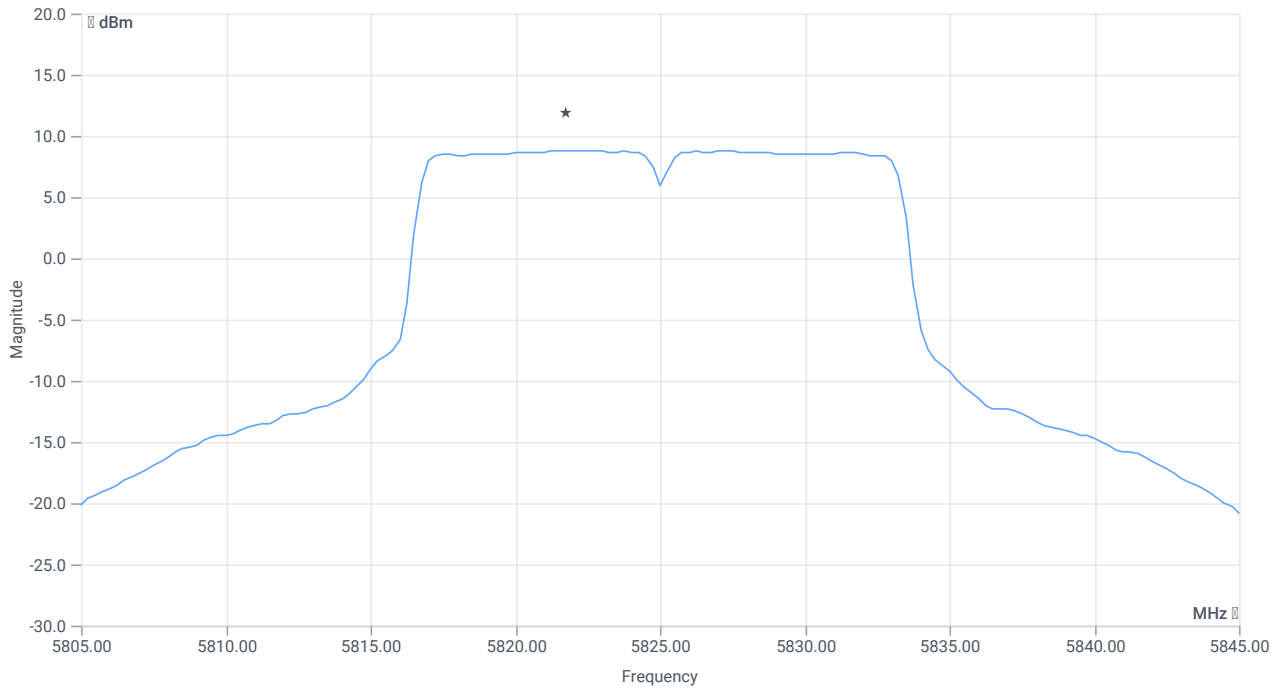
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	23.55	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	23.55	dBm	PASS
Limit: 11 dBm + 10 log 39.32					
Max Output Power DC corrected	--	26.95	23.55	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.09   16.68   35
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	0.500000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



PSD UNII-3

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	8.79	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	8.79	dBm/0.5MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:38:47
Ambit temp [°C]   humidity [rel%]	25.2   49
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

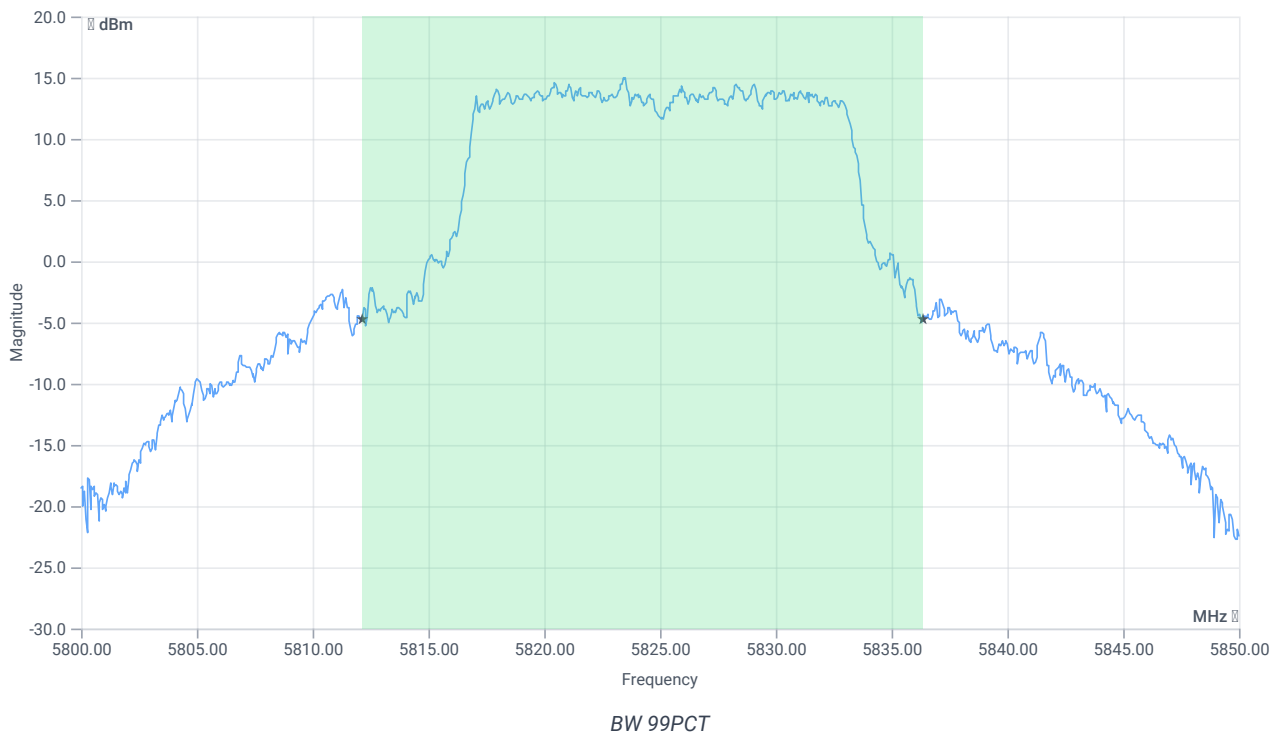
## Test at TX 5825 MHz

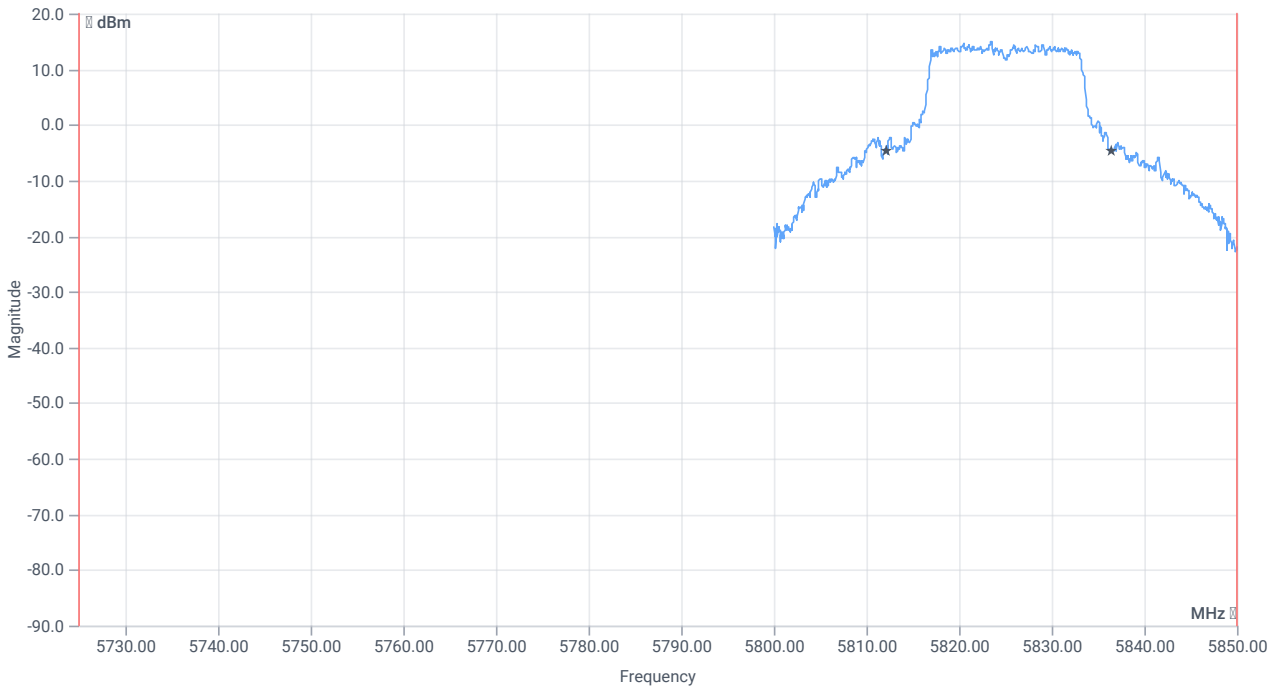
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	19.19	dBm	INFO
Ref. Frequency	--	--	5828.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	27.19   16.68   30
Start [MHz]   Stop [MHz]	5800.000   5850.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

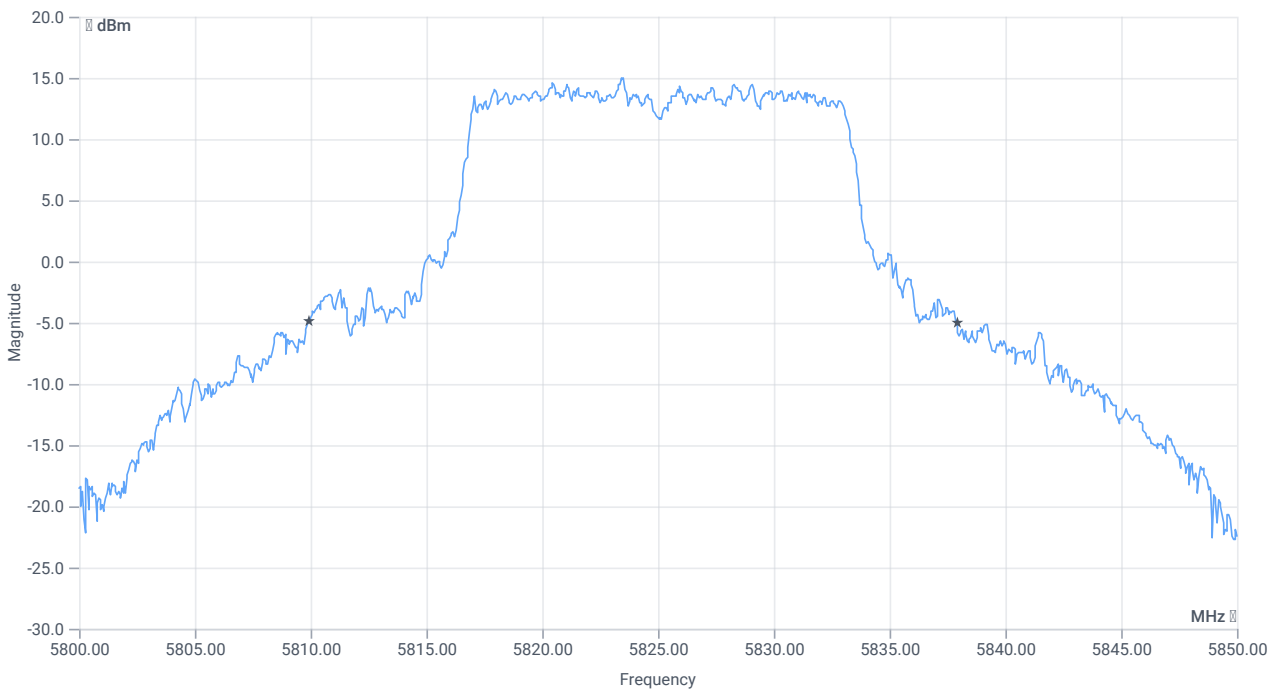




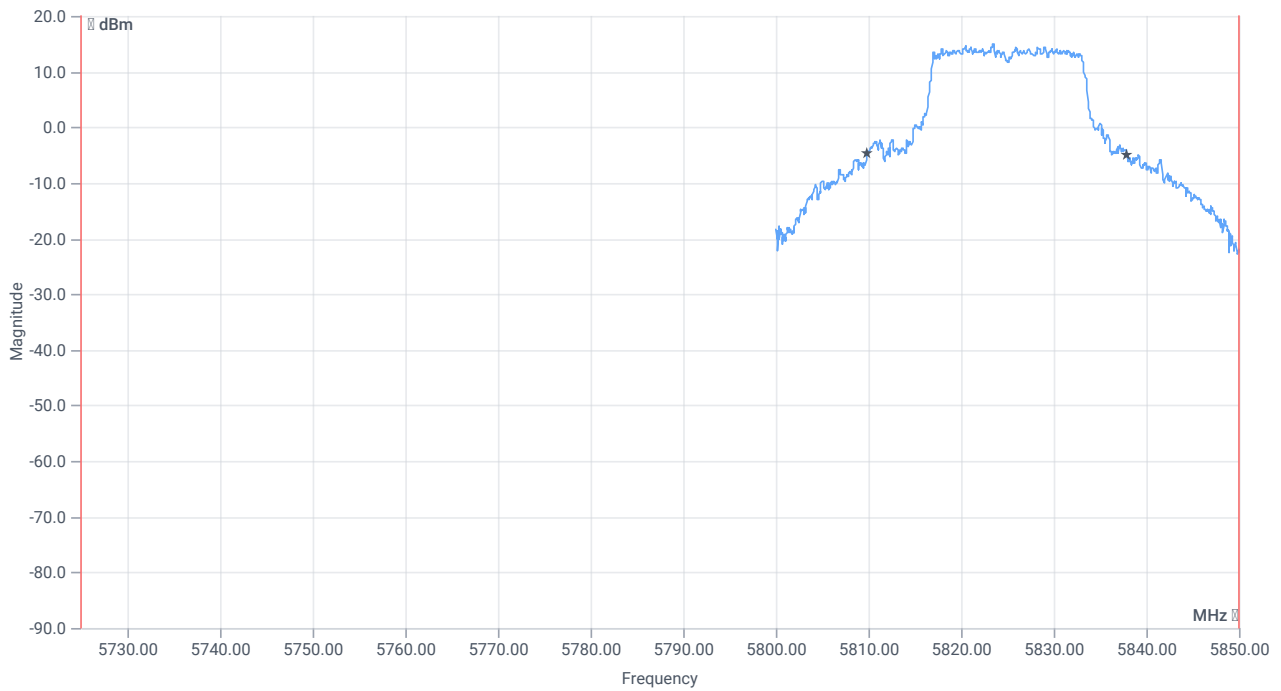
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	24.226	MHz	INFO
T1 99%	5725.000000	--	5812.1628	MHz	PASS
T2 99%	--	5850.000000	5836.3886	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	28	MHz	INFO
T1 20dB	5725.000000	--	5809.9000	MHz	PASS
T2 20dB	--	5850.000000	5837.9000	MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:39:26
Ambit temp [°C]   humidity [rel%]	25.1   49
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

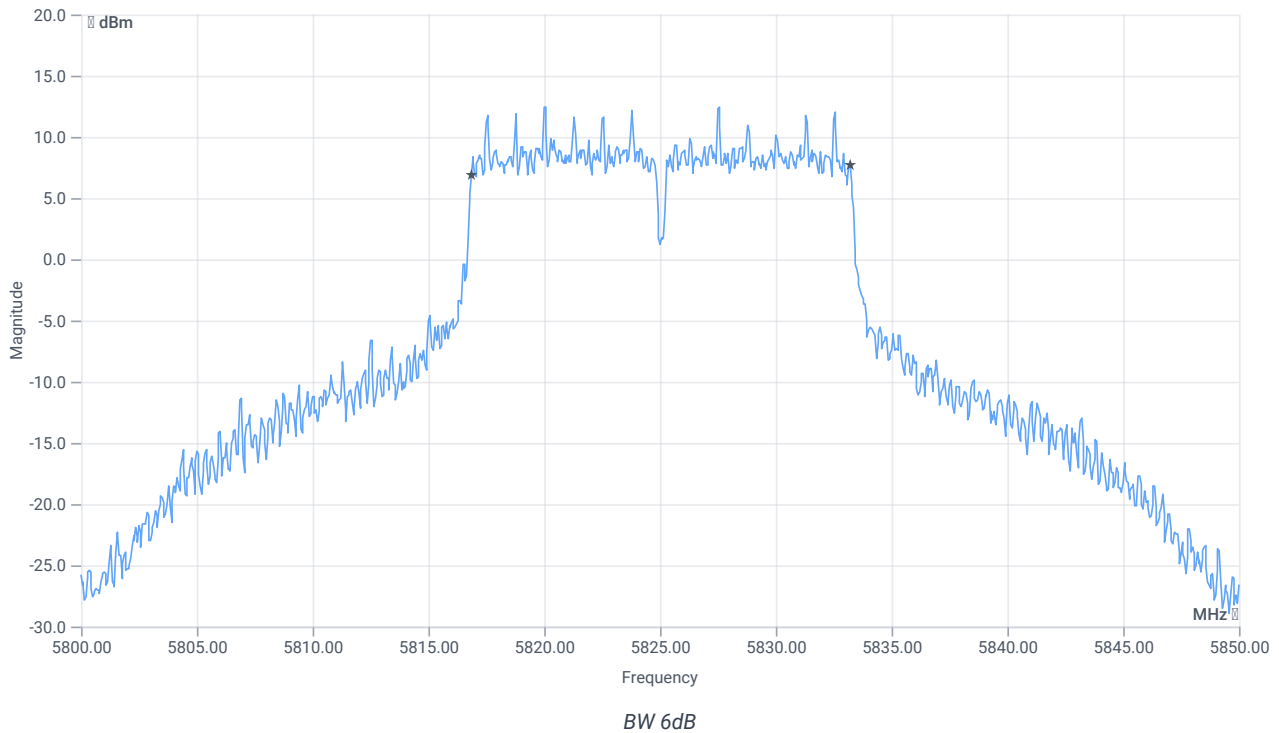
## Test at TX 5825 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	19.87	dBm	INFO
Ref. Frequency	--	--	5820.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	31.87   16.68   35
Start [MHz]   Stop [MHz]	5800.000   5850.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	2   1500   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.35	MHz	PASS

Verdict

PASS



## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:40:03
Ambit temp [°C]   humidity [rel%]	25.1   49
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 5825 MHz

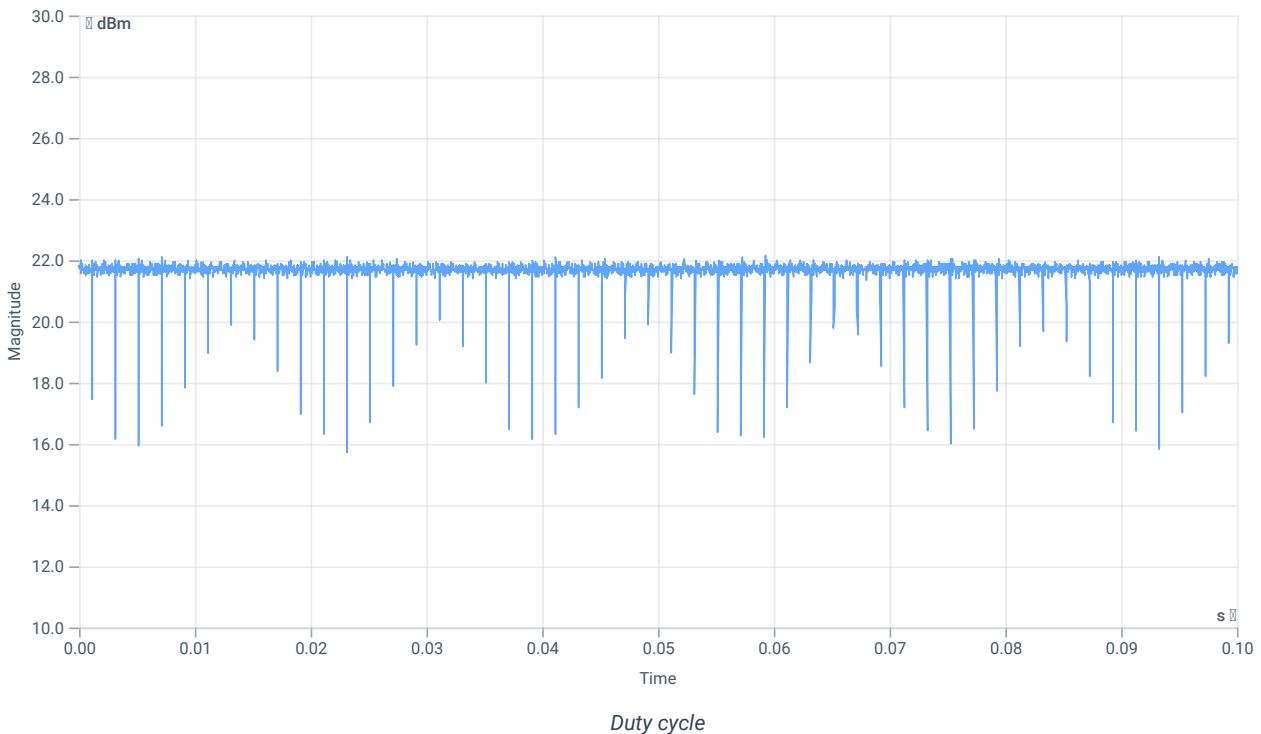
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	21.36	dBm	INFO
Ref. Frequency	--	--	5829.400	MHz	INFO

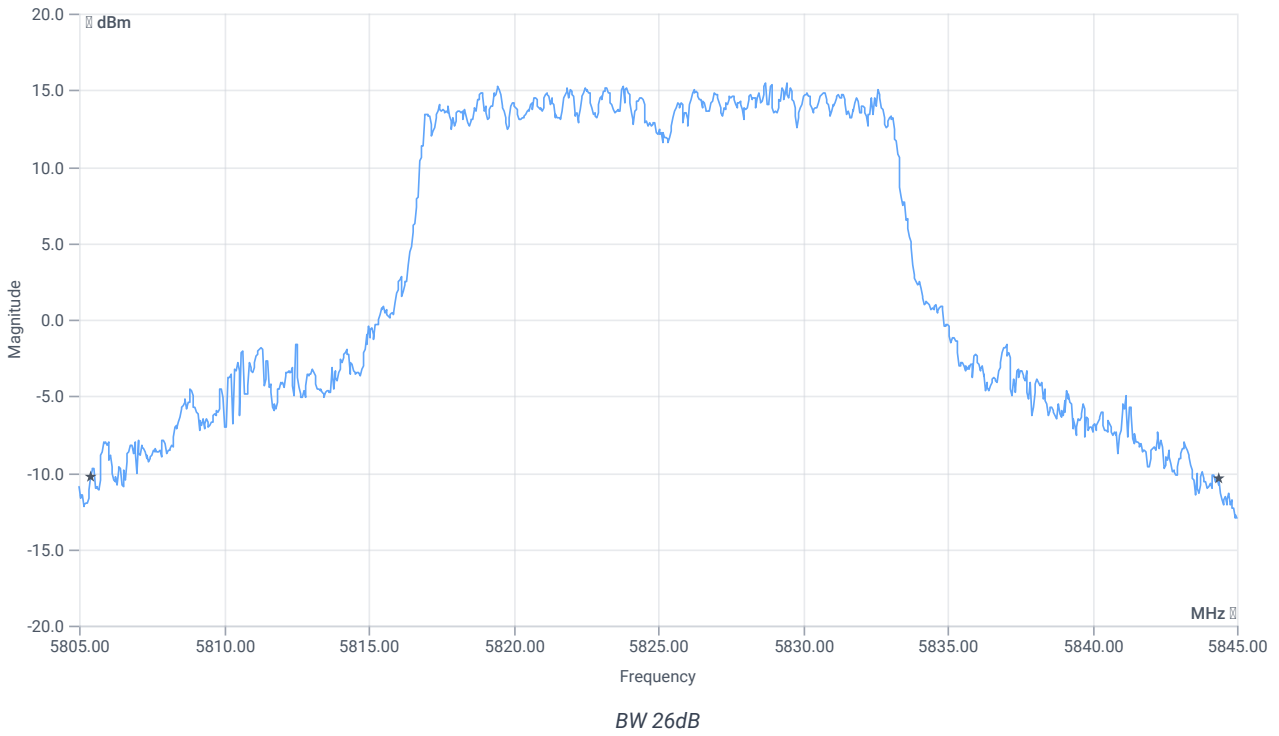
## Evaluation max. Duty Cycle

### Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
No enough Bursts detected, Duty Cycle Burst Ratio set to 1					
Duty Cycle (Burst Ratio) max	--	--	1	--	INFO
Duty Cycle max	--	--	0	dB	INFO
Duty Cycle (Burst Ratio) min	--	--	1	--	INFO
Duty Cycle min	--	--	0	dB	INFO



## Evaluation Bandwidth



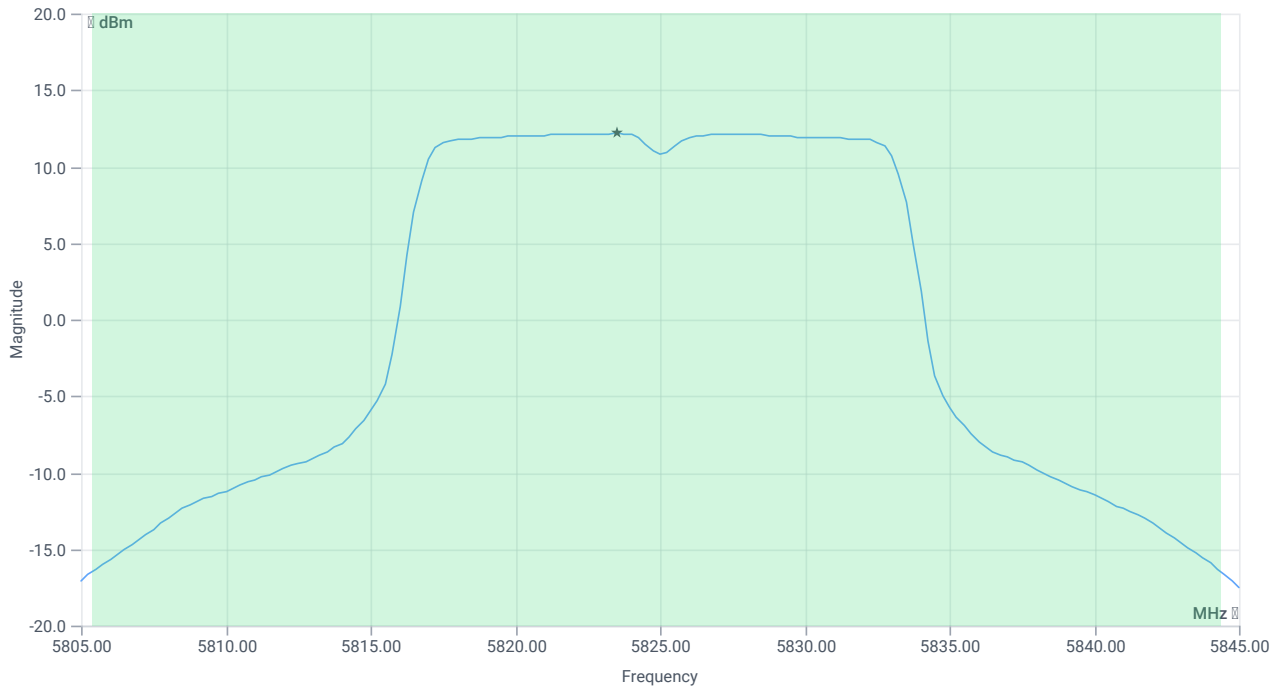
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	39	MHz	INFO
T1 26dB	---	---	5805.4000	MHz	INFO
T2 26dB	---	---	5844.4000	MHz	INFO

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	33.36   16.68   35
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



Max OP and PSD

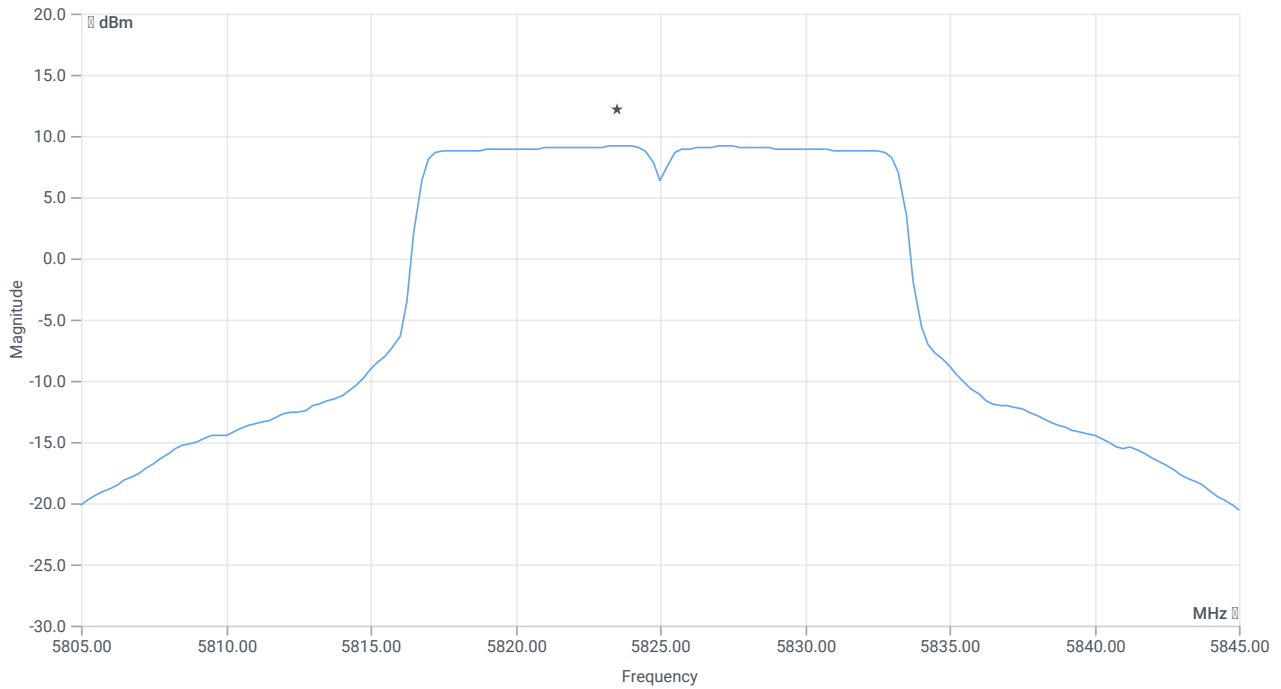
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max Output Power	--	--	23.85	dBm	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Limit absolute					
Max Output Power DC corrected	--	30	23.85	dBm	PASS
Limit: 11 dBm + 10 log 39					
Max Output Power DC corrected	--	26.91	23.85	dBm	na

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	33.36   16.68   35
Start [MHz]   Stop [MHz]	5805.000   5845.000
RBW [MHz]   VBW [MHz]	0.500000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: time [ms]   count   points per Section   type	53700   1   161   SWE



PSD UNII-3

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power Spectral Density	--	--	9.2	dBm/0.5MHz	INFO
Duty Cycle Correction	--	--	0	dB	INFO
Power Spectral Density DC corrected	--	30	9.2	dBm/0.5MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:42:31
Ambit temp [°C]   humidity [rel%]	25.1   49
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

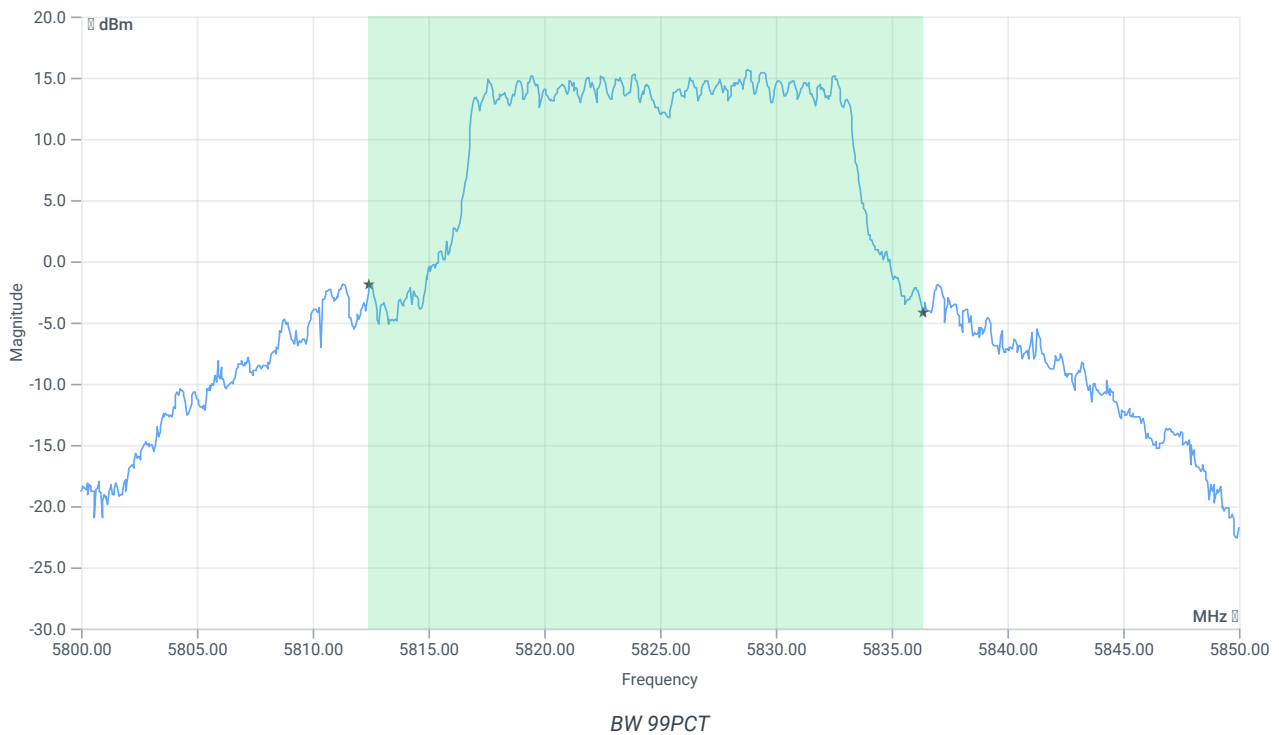
## Test at TX 5825 MHz

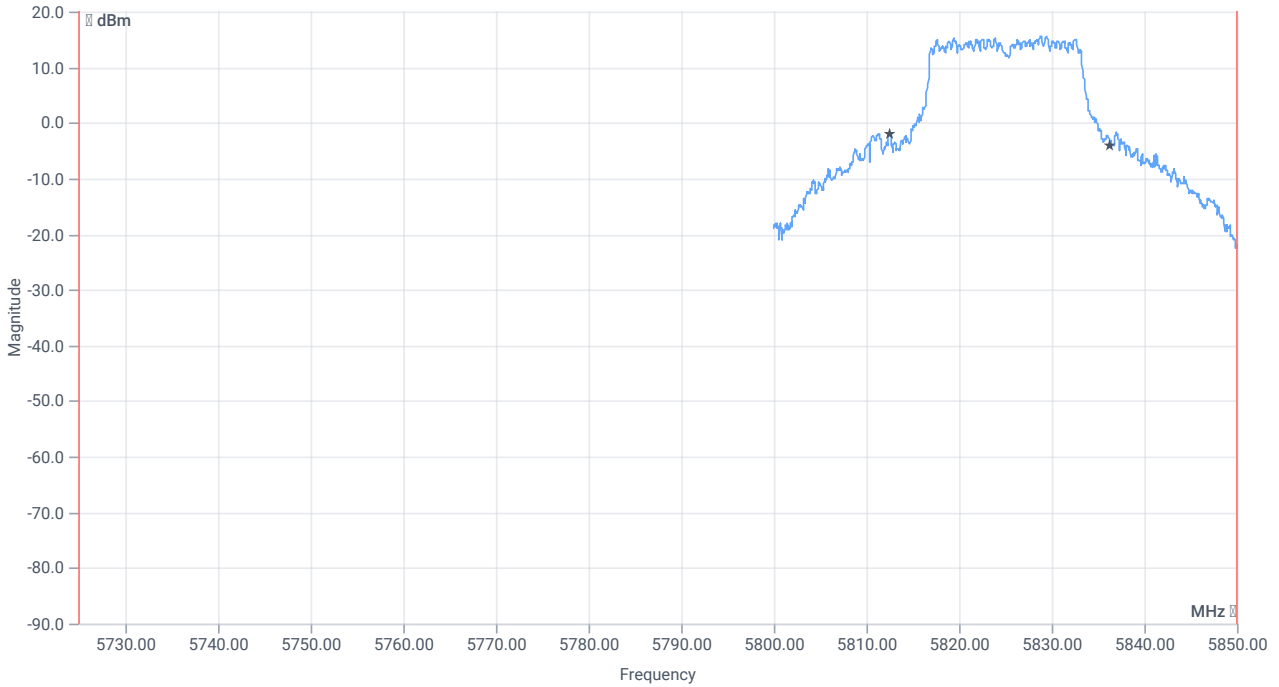
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.58	dBm	INFO
Ref. Frequency	--	--	5829.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.58   16.68   30
Start [MHz]   Stop [MHz]	5800.000   5850.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   2500   1001   SWE

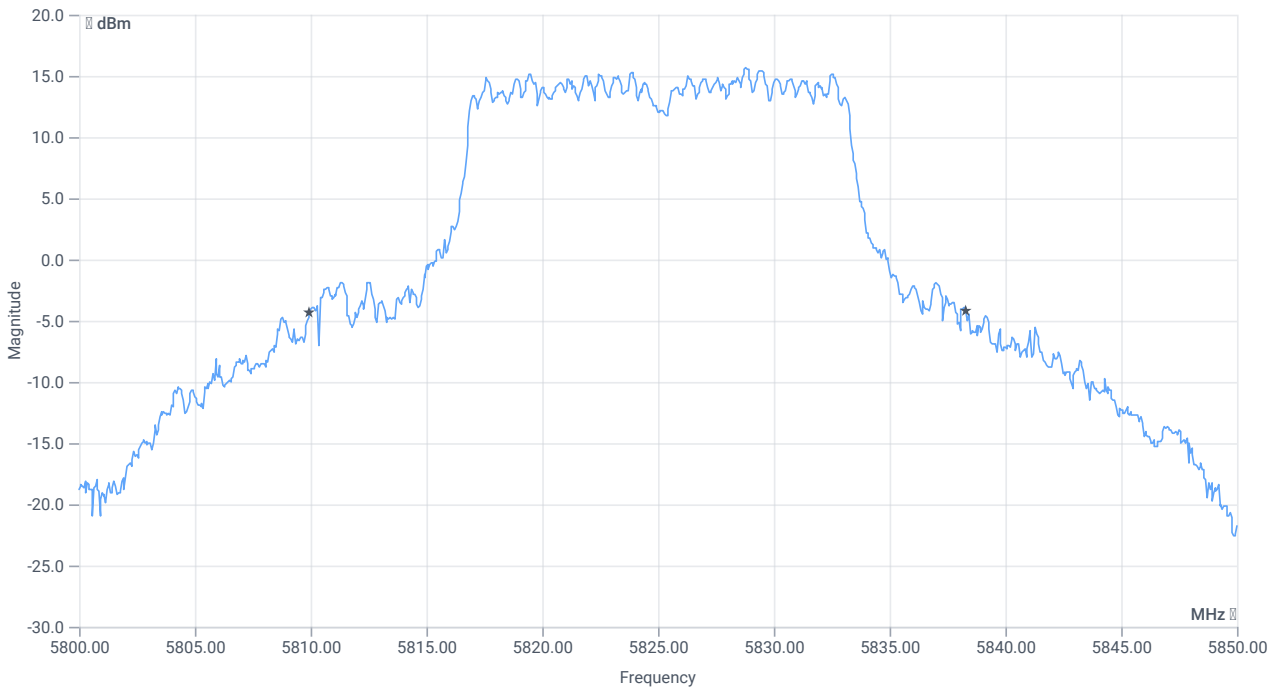




BW within Band 99PCT

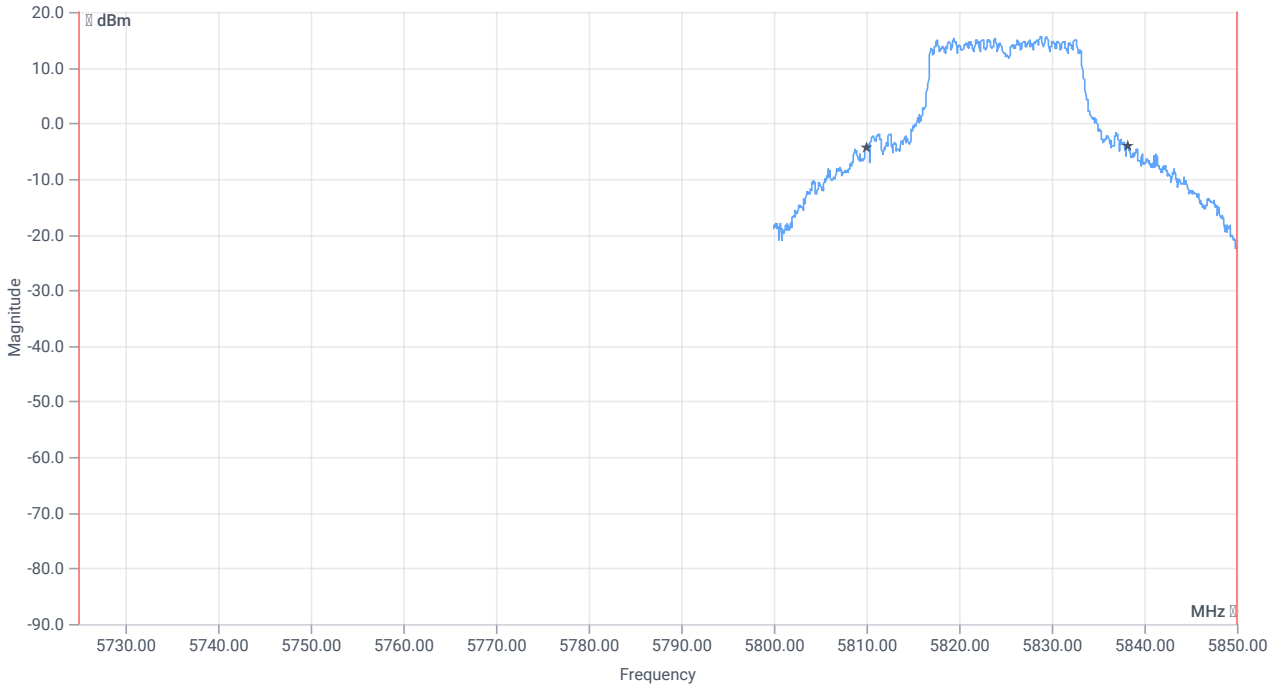
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	23.876	MHz	INFO
T1 99%	5725.000000	--	5812.4625	MHz	PASS
T2 99%	--	5850.000000	5836.3387	MHz	PASS





BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	28.35	MHz	INFO
T1 20dB	5725.000000	--	5809.9500	MHz	PASS
T2 20dB	--	5850.000000	5838.3000	MHz	PASS

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

TC start	01.08.2023 14:43:09
Ambit temp [°C]   humidity [rel%]	25.1   49
System version	4.6.0.1
Standard   Version	FCC 15.407, ISED RSS247   NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	PS96

### EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

### Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

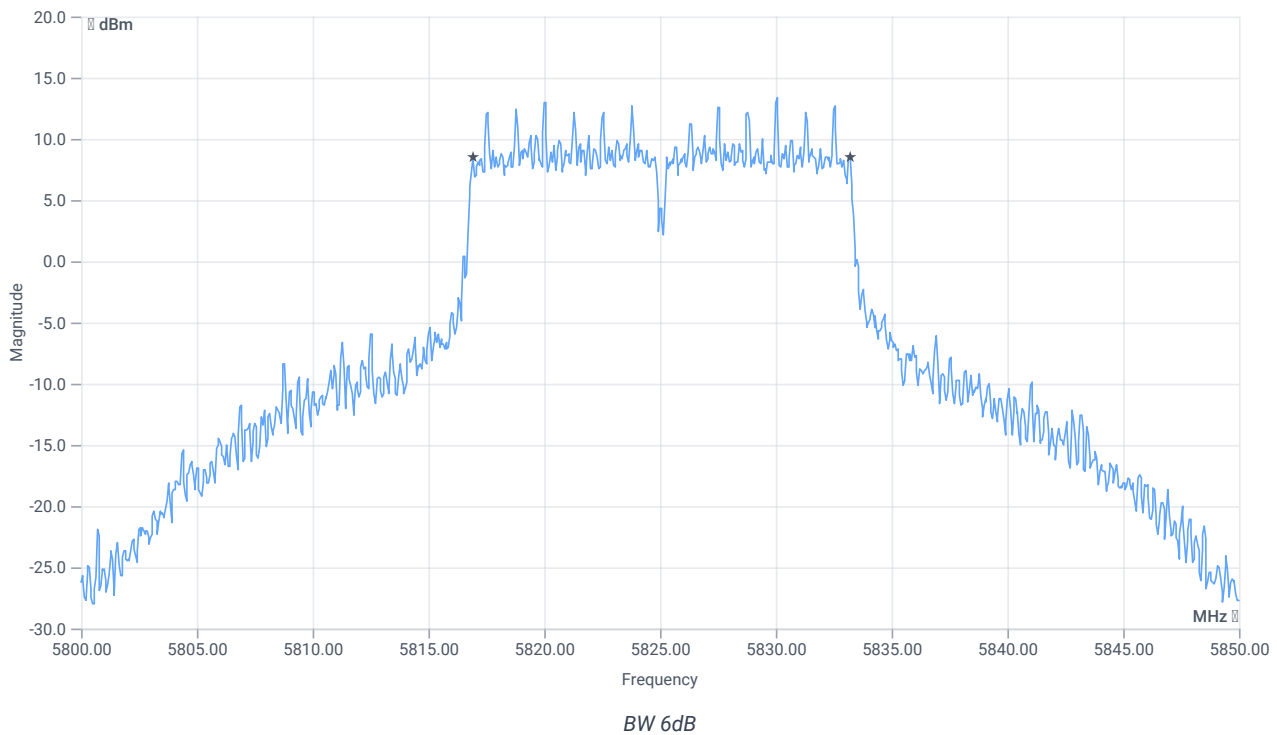
## Test at TX 5825 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	20.63	dBm	INFO
Ref. Frequency	--	--	5823.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	32.63   16.68   35
Start [MHz]   Stop [MHz]	5800.000   5850.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	2   1500   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.3	MHz	PASS

Verdict

PASS

# FCC 15.407 # MIMO Σ Max output power and psd ~ WLAN5Gx a mode U-NII-3

## References

TC start	01.08.2023 14:43:48
Ambit temp [°C]   humidity [rel%]	25.1   49
System version	4.6.0.1
Standard   Version	FCC 15.407   NI
Method	
Description	MIMO Σ FCC Power & psd - WLAN5Gx a mode U-NII-3
Information	

## EUT Common Settings WLAN5Gx

Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client
Limit W52 Japan	Standard

## Test Parameter

Technology to test	WLAN5Gx a mode
Antenna port used	several
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5745
Frequency mid to test	False   Freq [MHz] 5785
Frequency high to test	True   Freq [MHz] 5825
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.3
Switched path	None

## Equipment

## Test at TX 5825 MHz

### RESULT Power

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 Max Output Power DC corrected	--	--	23.55	dBm	INFO
Ant:1 BW 26dB	--	--	39.320	MHz	INFO
Ant:2 Max Output Power DC corrected	--	--	23.85	dBm	INFO
Ant:2 BW 26dB	--	--	39.000	MHz	INFO
$\Sigma$ Limit absolute	--	30	26.71	dBm	PASS
$\Sigma$ Limit: 11 dBm + 10 log 39	--	26.91	26.71	dBm	na

### RESULT PSD

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ant:1 PSD	--	--	8.79	dBm/0.5MHz	INFO
Ant:2 PSD	--	--	9.2	dBm/0.5MHz	INFO
$\Sigma$	--	30	12.01	dBm/0.5MHz	PASS

### Verdict

PASS

- END OF DOCUMENT -