

FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 15:27:45
Ambit Temp [°C]   Humidity [rel%]	29.4   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	3
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] 5700
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5700 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.46	dBm	INFO
Ref. Frequency	---	---	5696.800	MHz	INFO

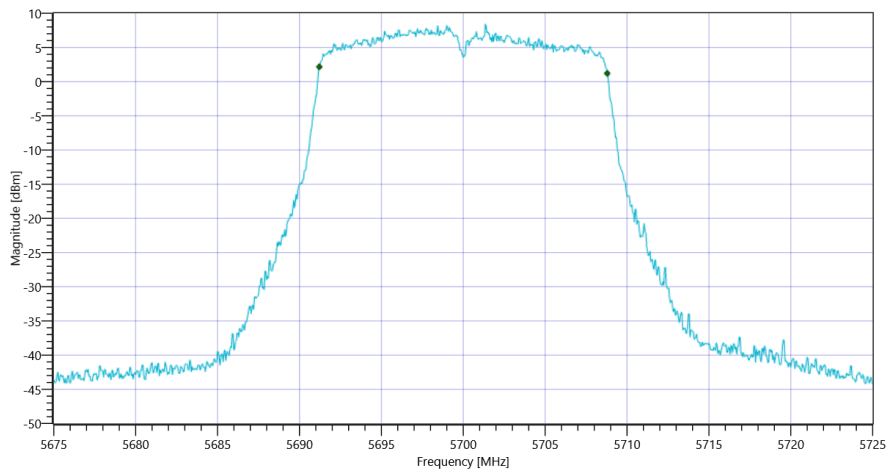
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.46   11.14   25
Start [MHz]   Stop [MHz]	5675.000   5725.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

### RESULT

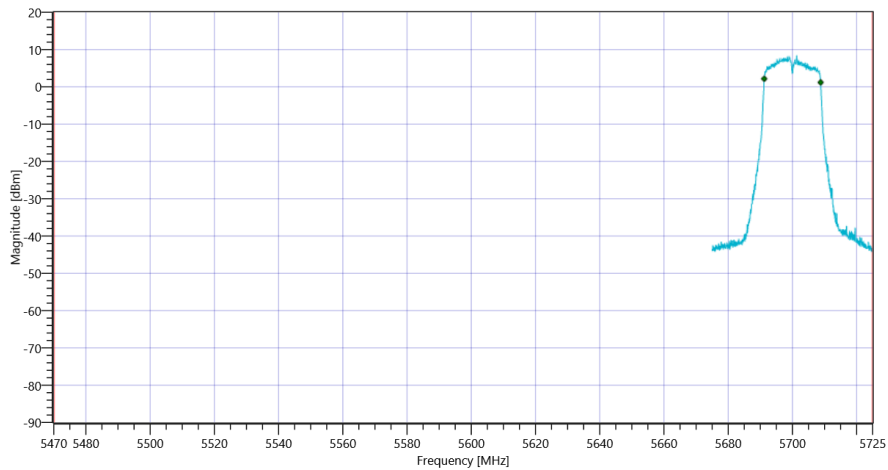
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.582	MHz	INFO
T1 99%	5470.000000	---	5691.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5708.7912	MHz	

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 99PCT

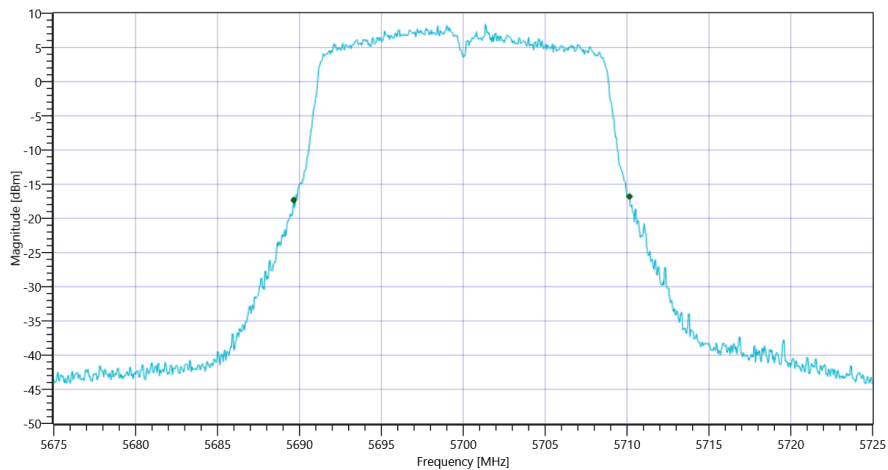
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

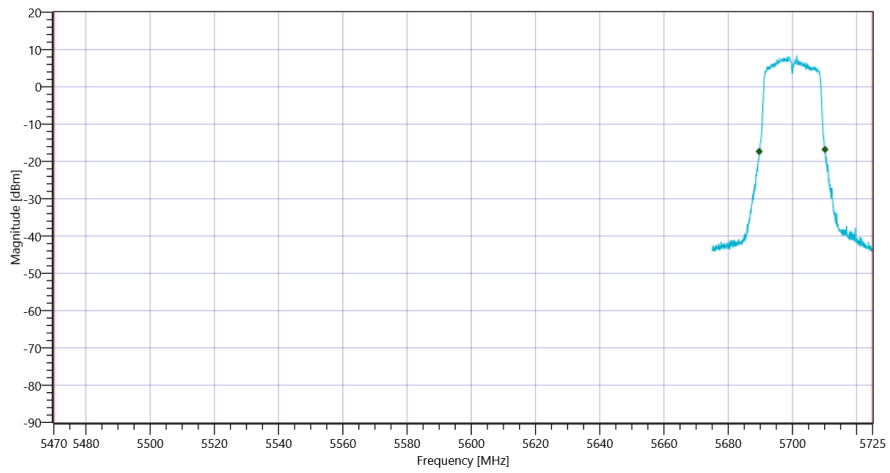
RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	20.5	MHz	INFO	
T1 26dB	5470.000000	---	5689.6500	MHz	PASS since U-NII-3 is supported	
T2 26dB	---	5725.000000	5710.1500	MHz		

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 15:25:04
Ambit Temp [°C]   Humidity [rel%]	29.3   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5600 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.46	dBm	INFO
Ref. Frequency	---	---	5605.990	MHz	INFO

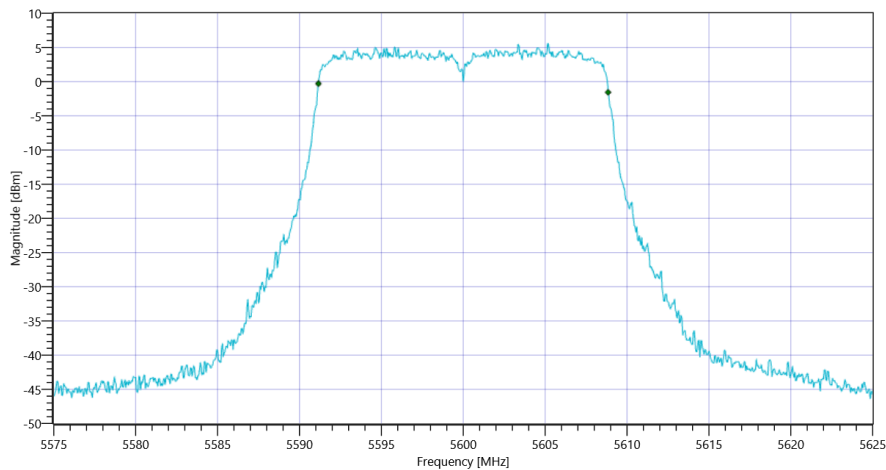
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.46   11.16   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

### RESULT

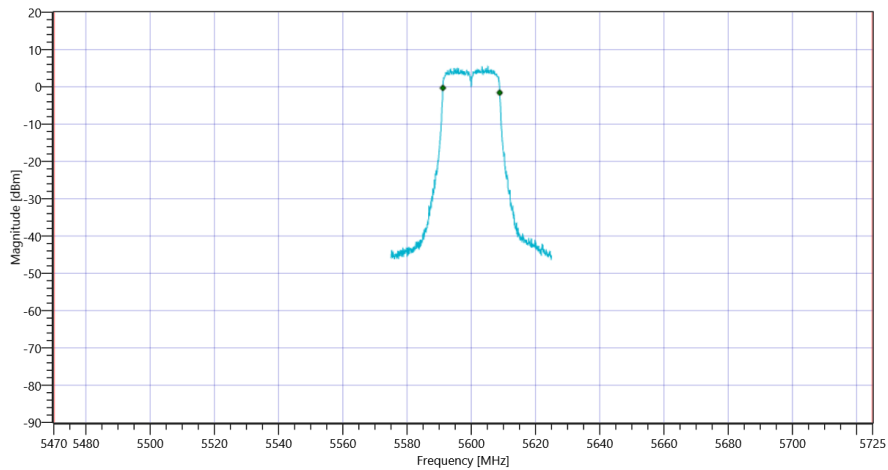
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.682	MHz	INFO
T1 99%	5470.000000	---	5591.1588	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5608.8412	MHz	

### Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 99PCT

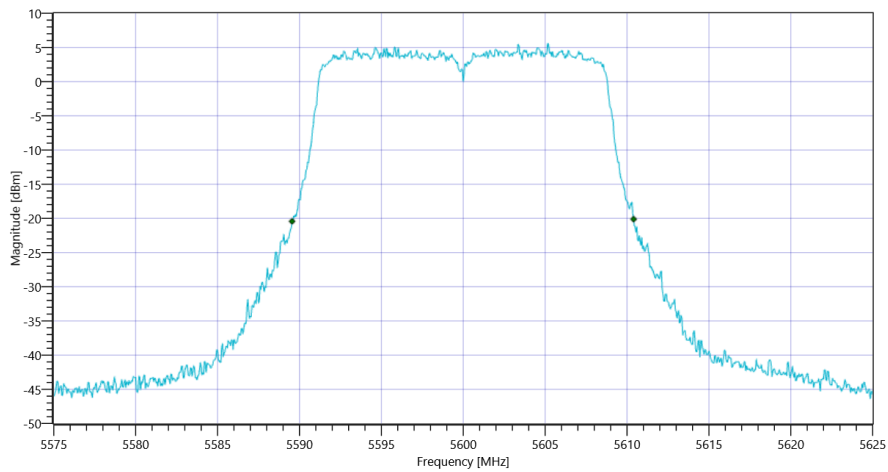
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20.85	MHz	INFO
T1 26dB	5470.000000	---	5589.5500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5610.4000	MHz	

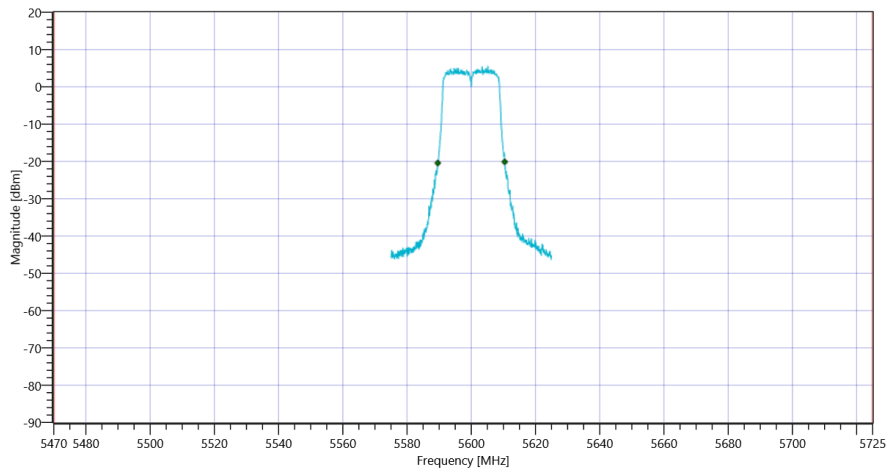
Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 26dB

Plot: Bandwidth within Band





FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 15:22:23
Ambit Temp [°C]   Humidity [rel%]	29.2   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5500 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.51	dBm	INFO
Ref. Frequency	---	---	5501.600	MHz	INFO

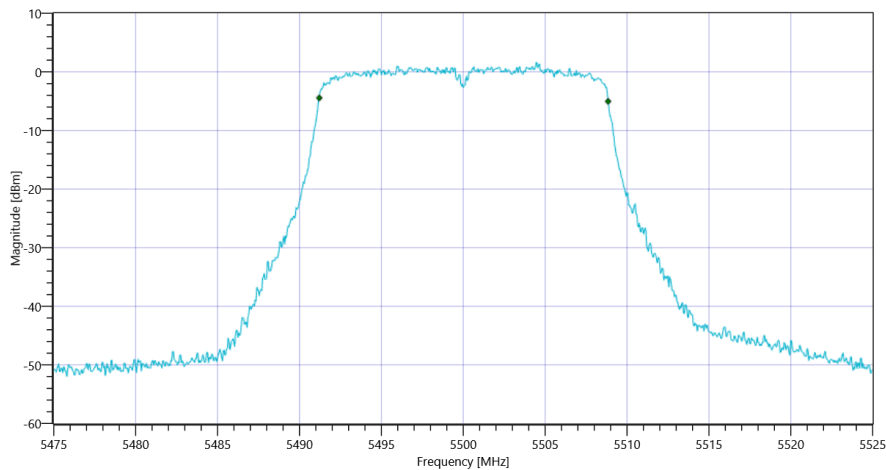
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.51   11.14   20
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

### RESULT

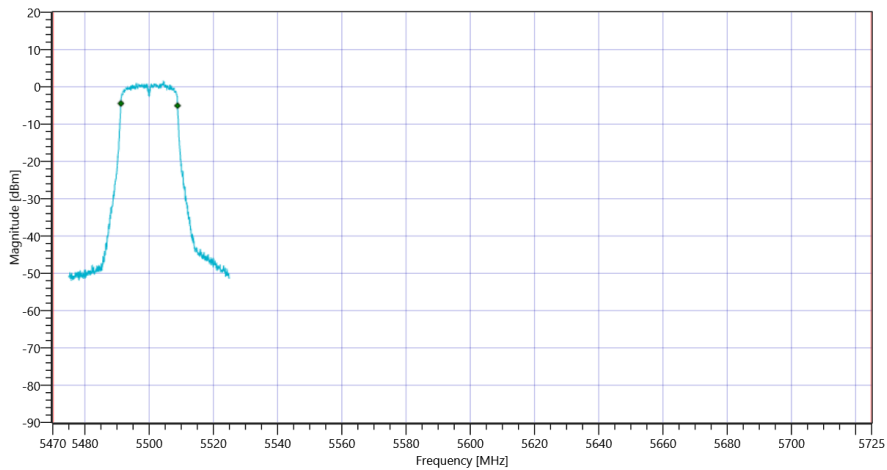
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.632	MHz	INFO
T1 99%	5470.000000	---	5491.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5508.8412	MHz	

### Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 99PCT

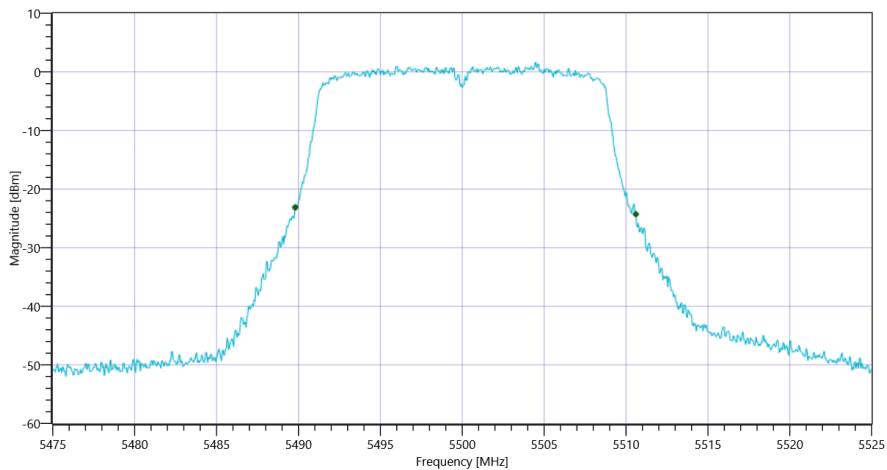
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

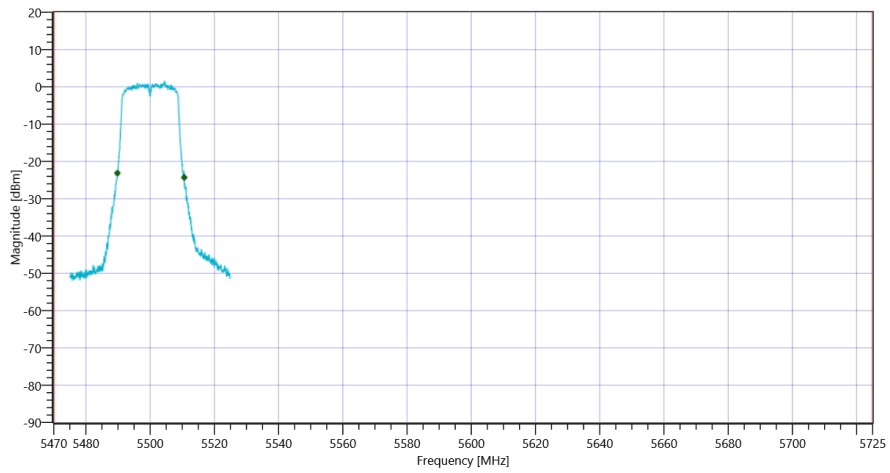
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20.8	MHz	INFO
T1 26dB	5470.000000	---	5489.8000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5510.6000	MHz	

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 15:19:43
Ambit Temp [°C]   Humidity [rel%]	29.3   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5300
Frequency high to test	True   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5320 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.92	dBm	INFO
Ref. Frequency	---	---	5316.200	MHz	INFO

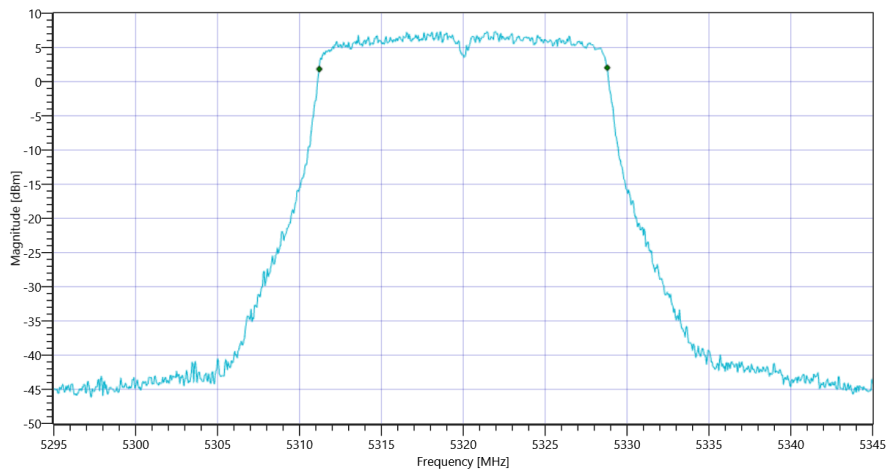
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.92   11.28   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

### RESULT

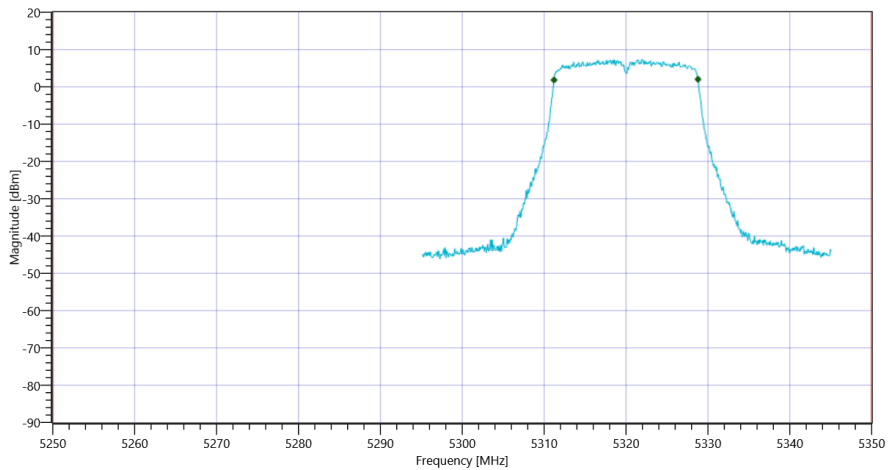
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.582	MHz	INFO
T1 99%	5250.000000	---	5311.2088	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5328.7912	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 99PCT

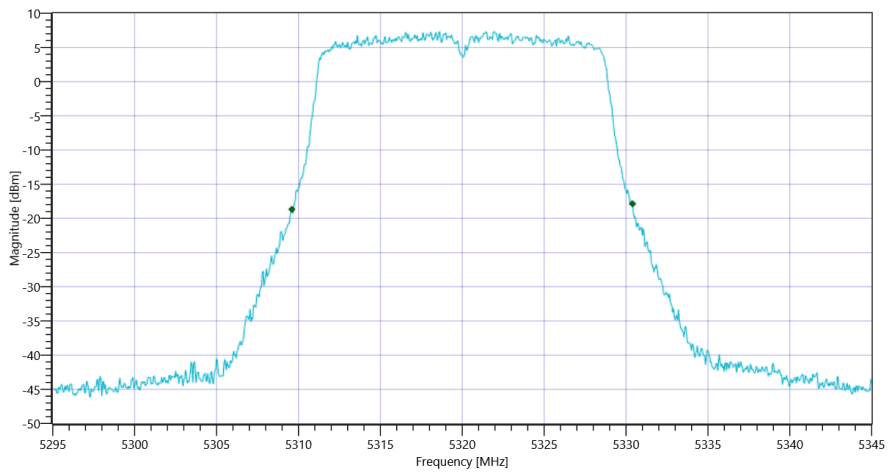
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20.8	MHz	INFO
T1 26dB	5250.000000	---	5309.6000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5335.000000	5330.4000	MHz	PASS

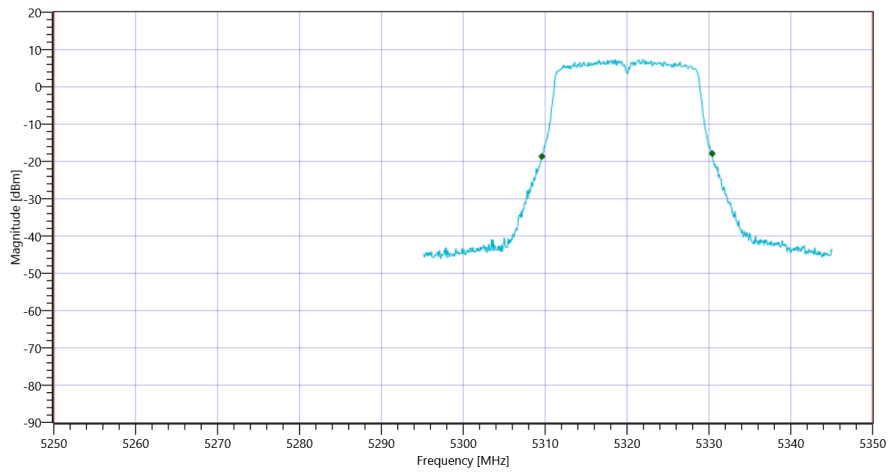
Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 26dB

Plot: Bandwidth within Band





FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 15:17:02
Ambit Temp [°C]   Humidity [rel%]	29.2   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5300
Frequency high to test	False   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5300 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.46	dBm	INFO
Ref. Frequency	---	---	5294.210	MHz	INFO

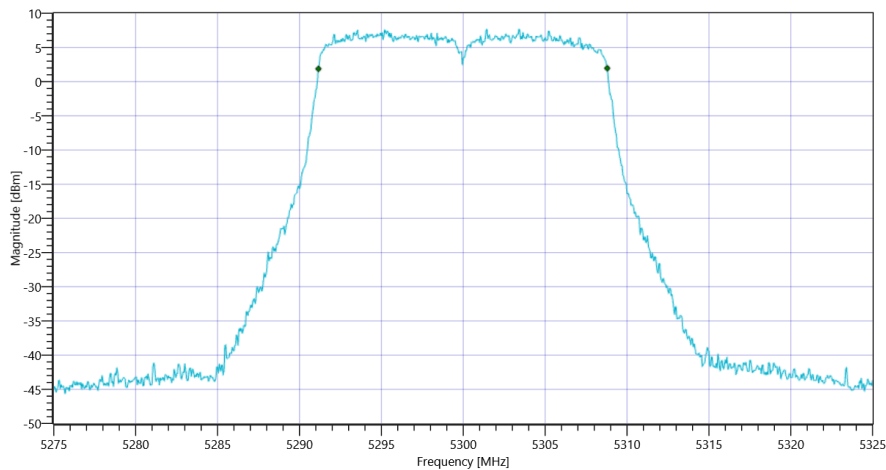
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.46   11.32   25
Start [MHz]   Stop [MHz]	5275.000   5325.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

### RESULT

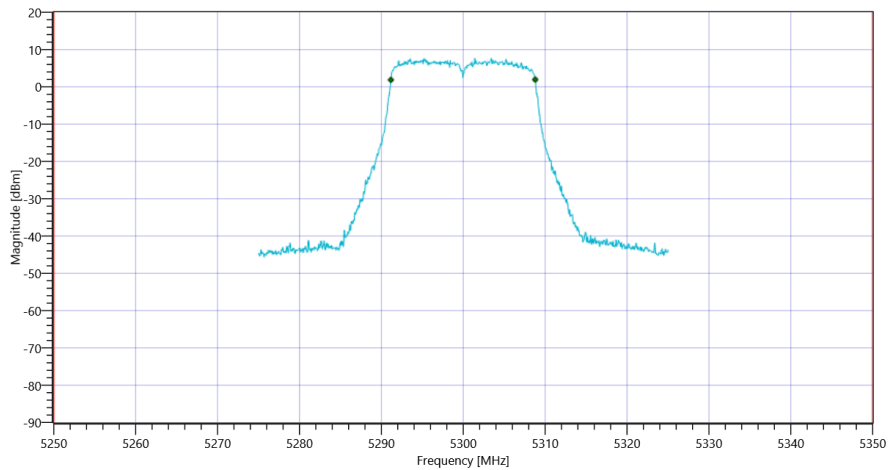
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.632	MHz	INFO
T1 99%	5250.000000	---	5291.1588	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5308.7912	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 99PCT

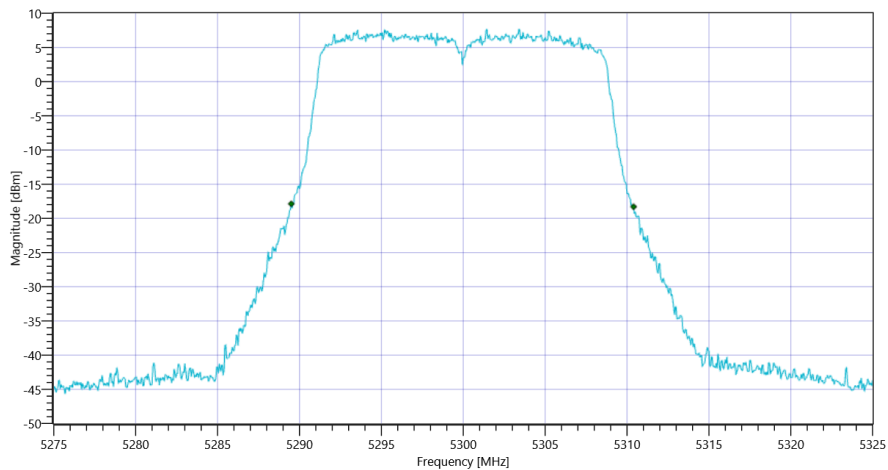
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

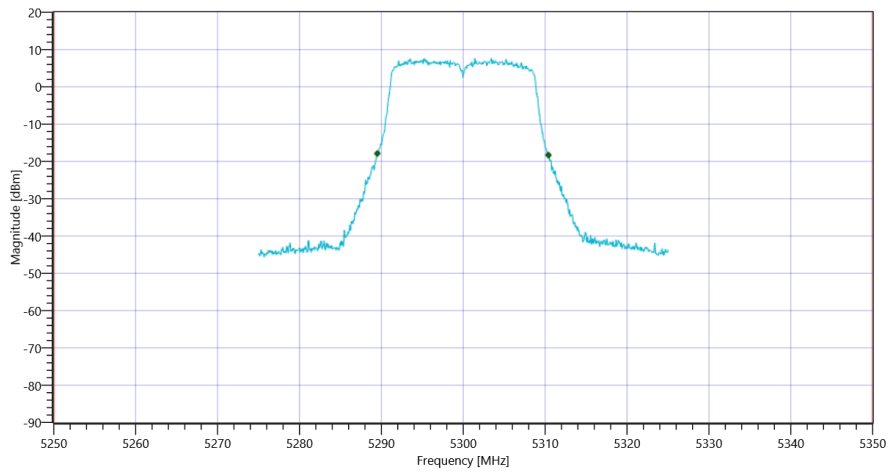
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20.9	MHz	INFO
T1 26dB	5250.000000	---	5289.5000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5310.4000	MHz	PASS

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 15:14:22
Ambit Temp [°C]   Humidity [rel%]	29.1   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5300
Frequency high to test	False   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5260 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.23	dBm	INFO
Ref. Frequency	---	---	5258.200	MHz	INFO

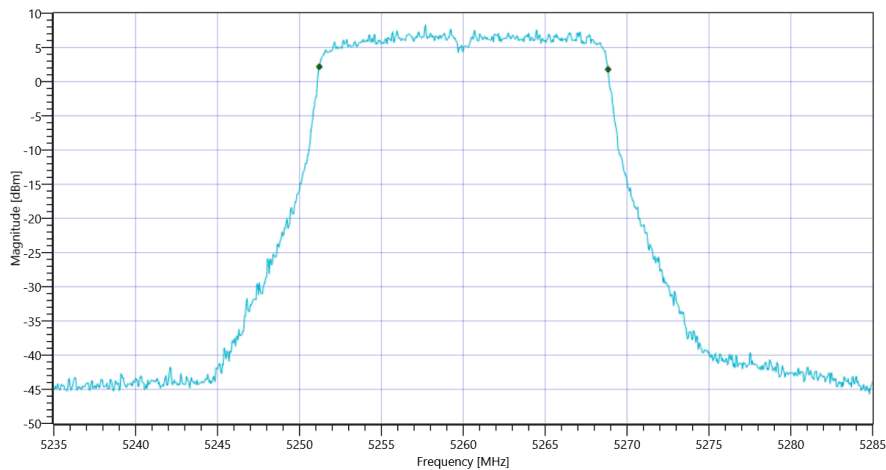
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.23   11.33   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

### RESULT

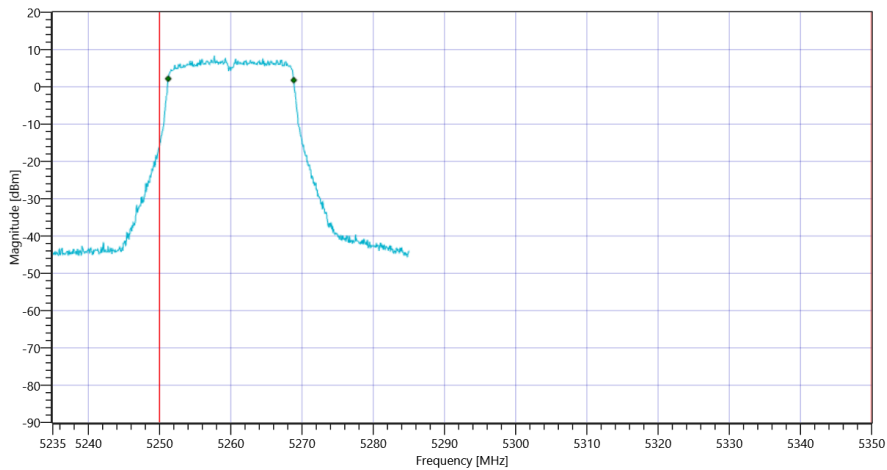
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.632	MHz	INFO
T1 99%	5250.000000	---	5251.2088	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5268.8412	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 99PCT

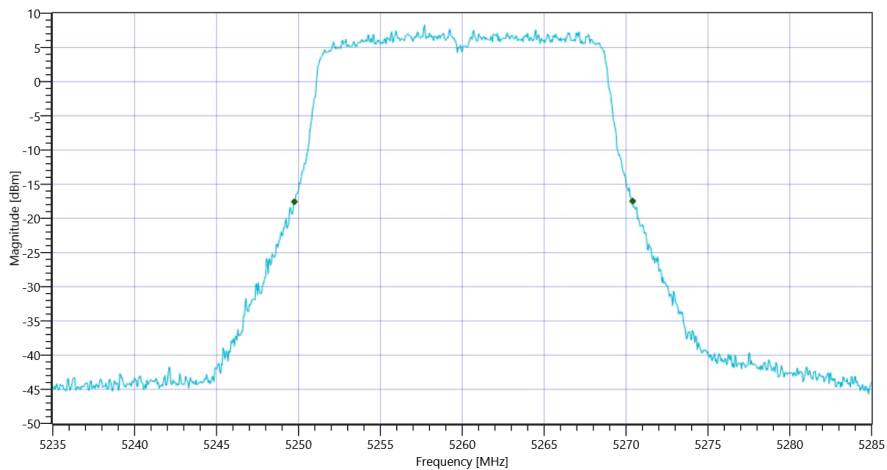
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20.65	MHz	INFO
T1 26dB	5250.000000	---	5249.7500	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5270.4000	MHz	PASS

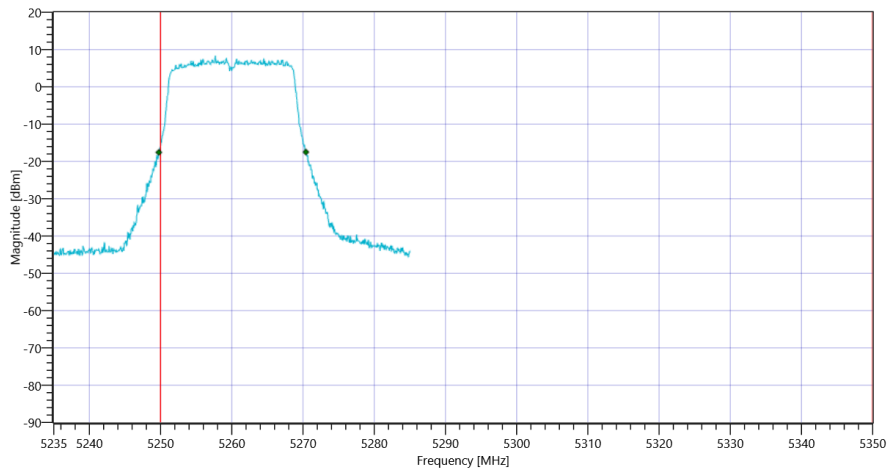
Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 26dB

Plot: Bandwidth within Band





FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References	
TC Start	04.04.2022 15:11:41
Ambit Temp [°C]   Humidity [rel%]	29.0   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-1
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5240 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.33	dBm	INFO
Ref. Frequency	---	---	5237.000	MHz	INFO

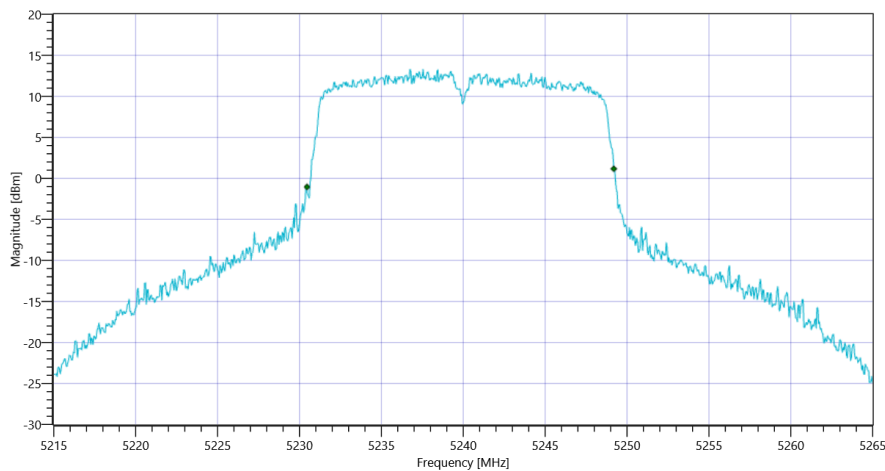
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	26.33   11.32   35
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

### RESULT

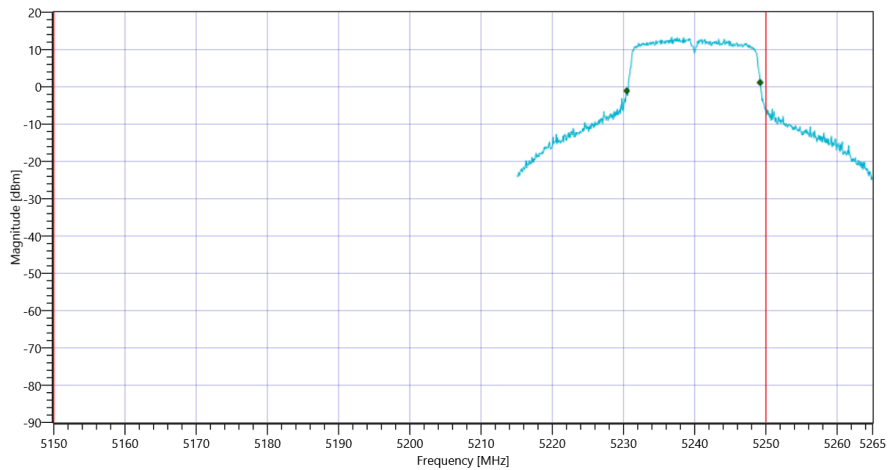
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.731	MHz	INFO
T1 99%	5150.000000	---	5230.4595	MHz	PASS
T2 99%	---	5250.000000	5249.1908	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

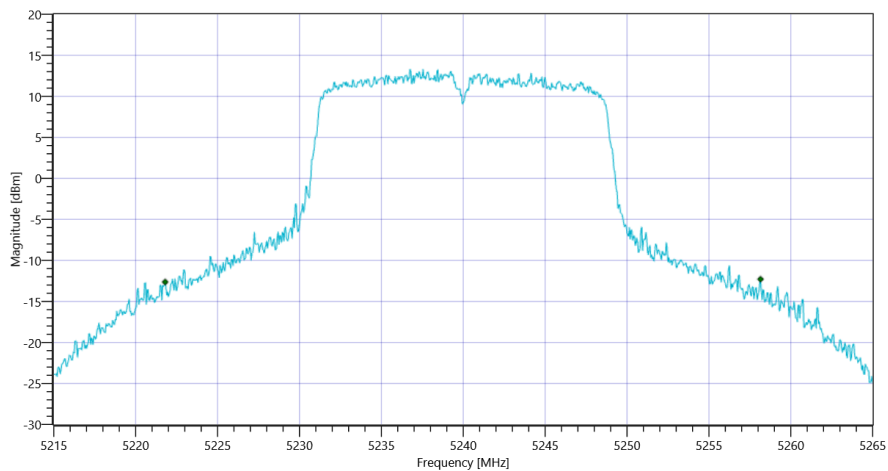
### Plot: Bandwidth within Band



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1

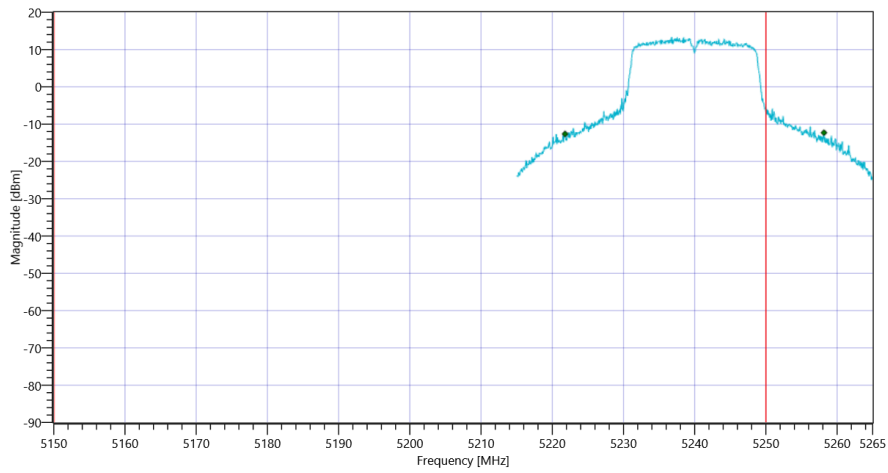
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	36.35	MHz	INFO
T1 26dB	5150.000000	---	5221.8000	MHz	PASS
T2 26dB	---	5250.000000	5258.1500	MHz	DFS required

Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References	
TC Start	04.04.2022 15:08:53
Ambit Temp [°C]   Humidity [rel%]	29.0   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-1
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5200 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	17.24	dBm	INFO
Ref. Frequency	---	---	5204.400	MHz	INFO

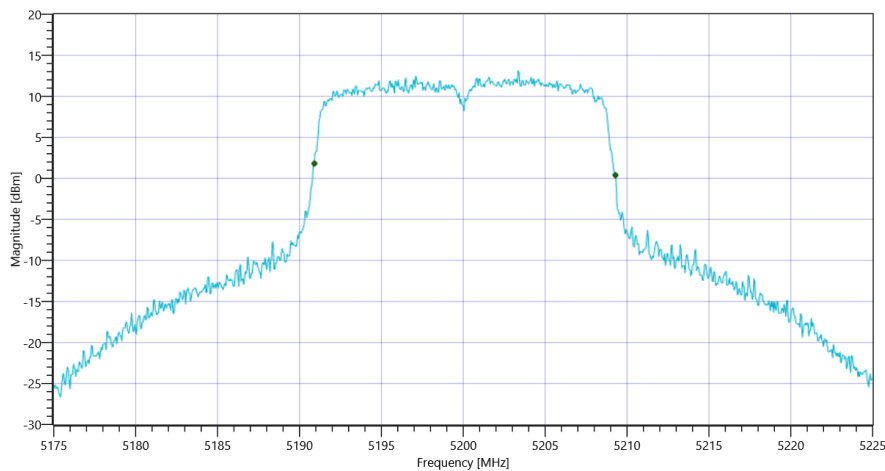
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	25.24   11.27   30
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

### RESULT

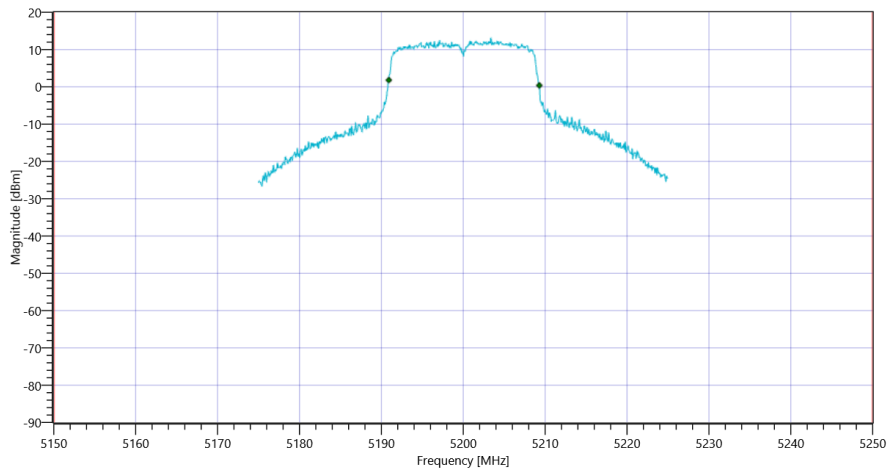
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.382	MHz	INFO
T1 99%	5150.000000	---	5190.9091	MHz	PASS
T2 99%	---	5250.000000	5209.2907	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

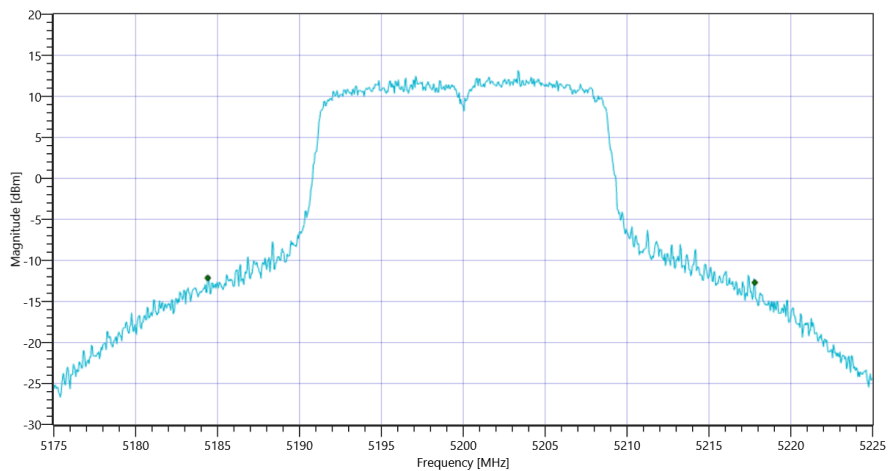
### Plot: Bandwidth within Band



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1

RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	33.4	MHz	INFO	
T1 26dB	5150.000000	---	5184.4000	MHz	PASS	
T2 26dB	---	5250.000000	5217.8000	MHz	PASS	

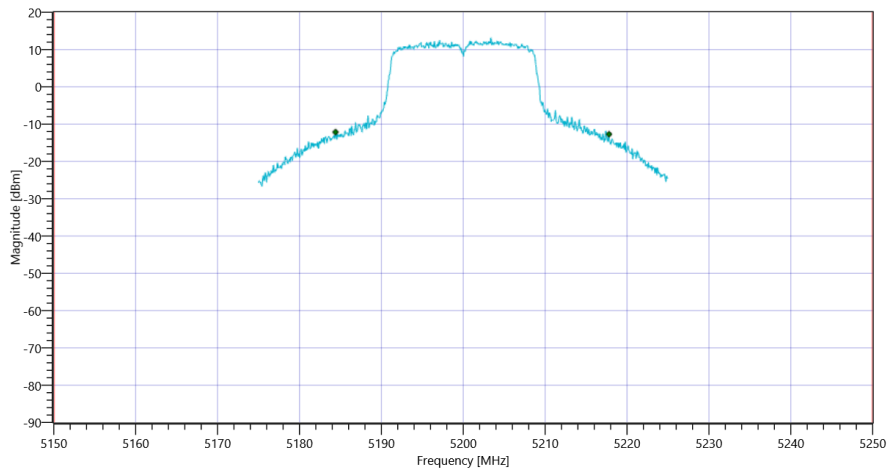
Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band





FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 13:47:40
Ambit Temp [°C]   Humidity [rel%]	27.7   17
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
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] 5700
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5700 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.15	dBm	INFO
Ref. Frequency	---	---	5699.800	MHz	INFO

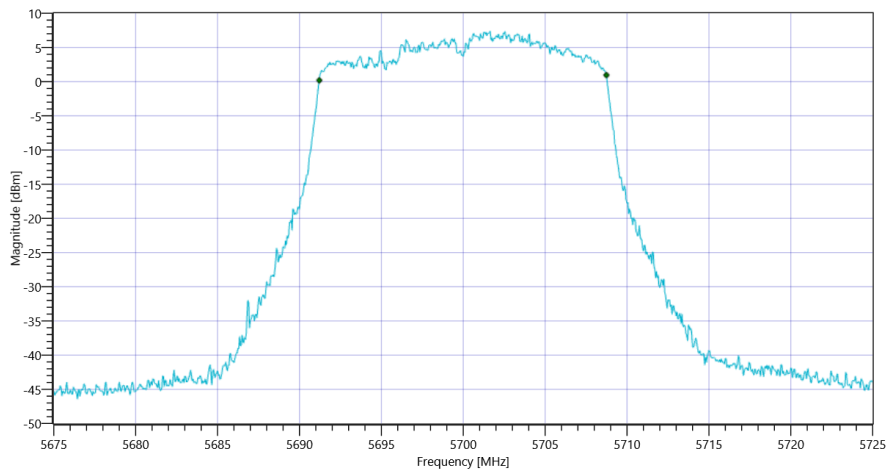
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.15   11.14   25
Start [MHz]   Stop [MHz]	5675.000   5725.000
RBW [MHz]   VBW [MHz]	0.300000   1.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   2500   1001   SWE

### RESULT

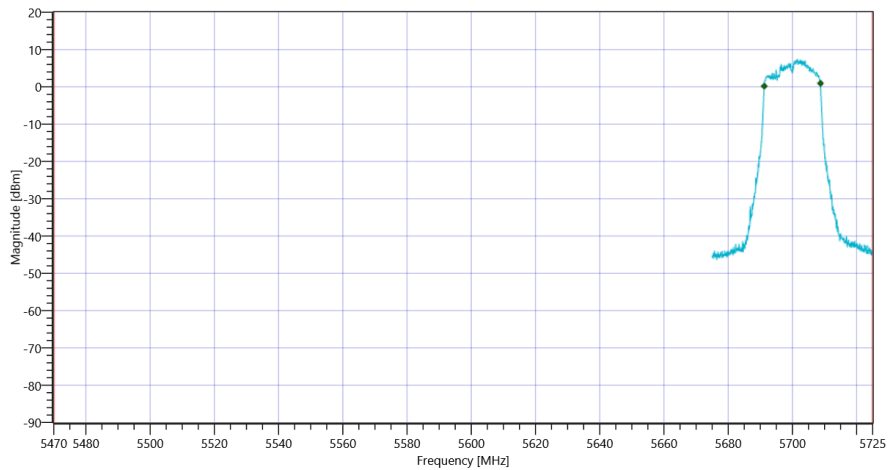
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.532	MHz	INFO
T1 99%	5470.000000	---	5691.2088	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5708.7413	MHz	

### Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 99PCT

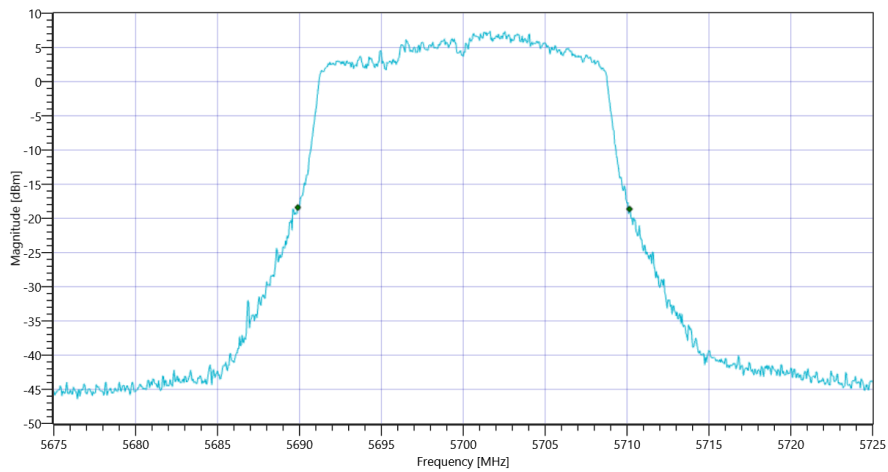
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

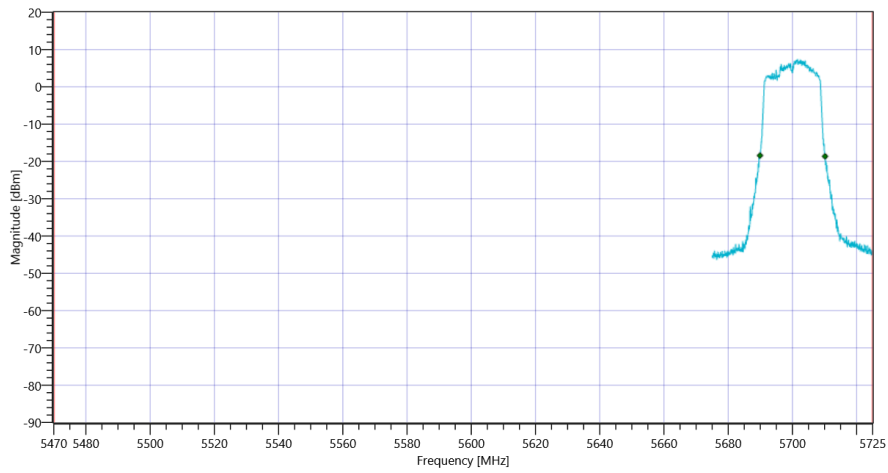
RESULT						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB	---	---	20.25	MHz	INFO	
T1 26dB	5470.000000	---	5689.9000	MHz	PASS since U-NII-3 is supported	
T2 26dB	---	5725.000000	5710.1500	MHz		

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 13:45:00
Ambit Temp [°C]   Humidity [rel%]	27.5   17
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5600 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.69	dBm	INFO
Ref. Frequency	---	---	5604.800	MHz	INFO

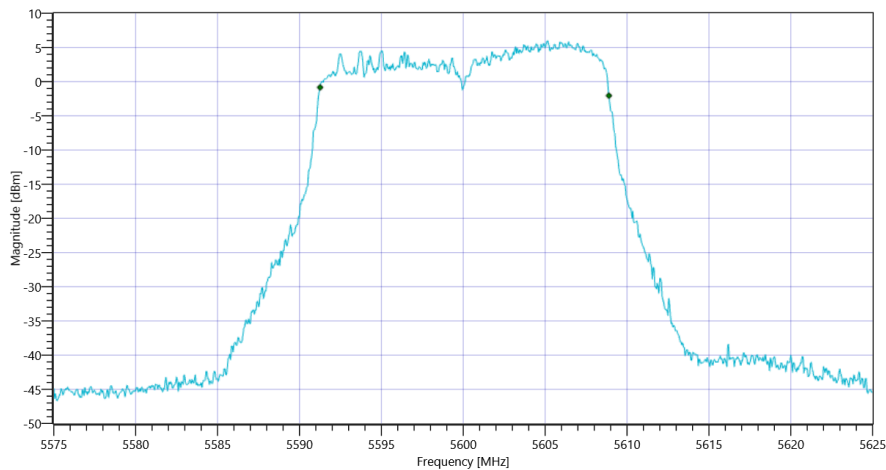
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.69   11.16   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

### RESULT

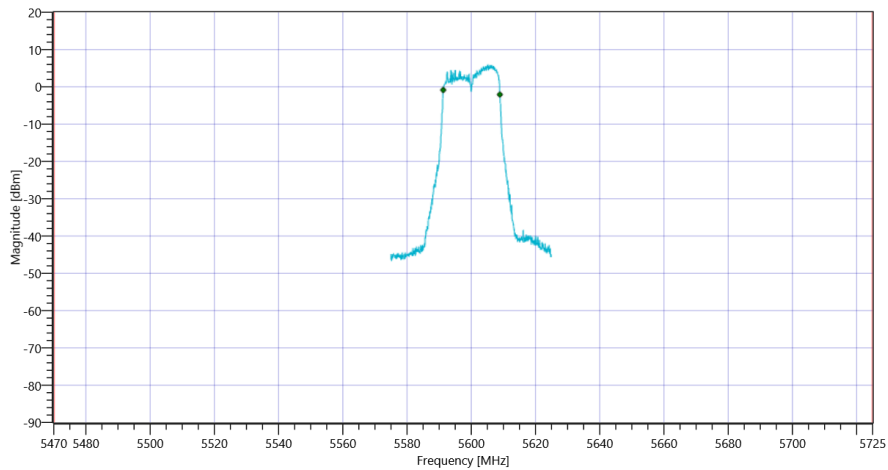
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.632	MHz	INFO
T1 99%	5470.000000	---	5591.2587	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5608.8911	MHz	

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 99PCT

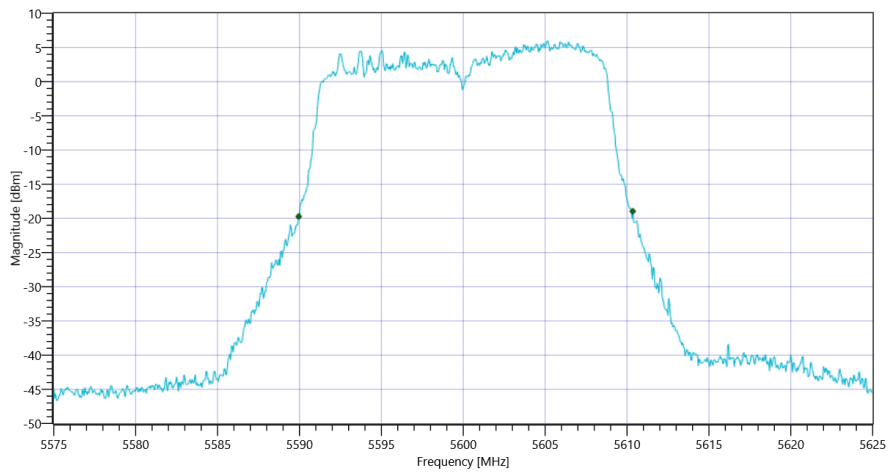
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20.4	MHz	INFO
T1 26dB	5470.000000	---	5589.9500	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5610.3500	MHz	

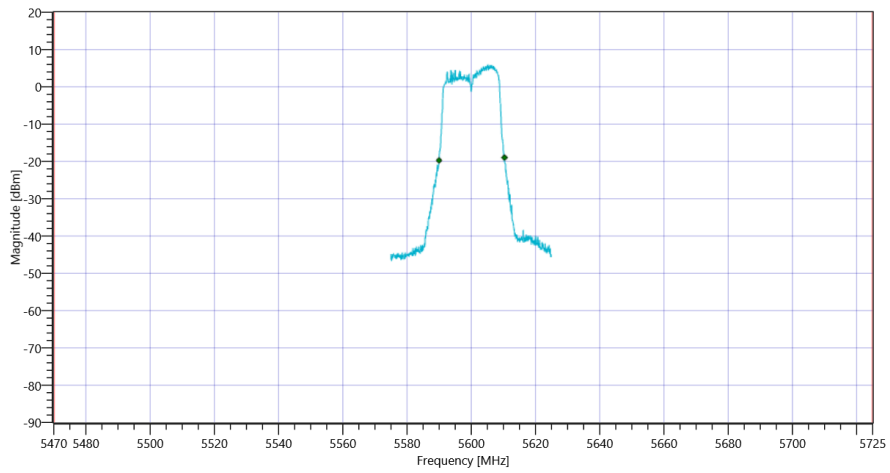
Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 26dB

Plot: Bandwidth within Band





FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 13:42:19
Ambit Temp [°C]   Humidity [rel%]	27.3   17
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5500 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	7.73	dBm	INFO
Ref. Frequency	---	---	5495.000	MHz	INFO

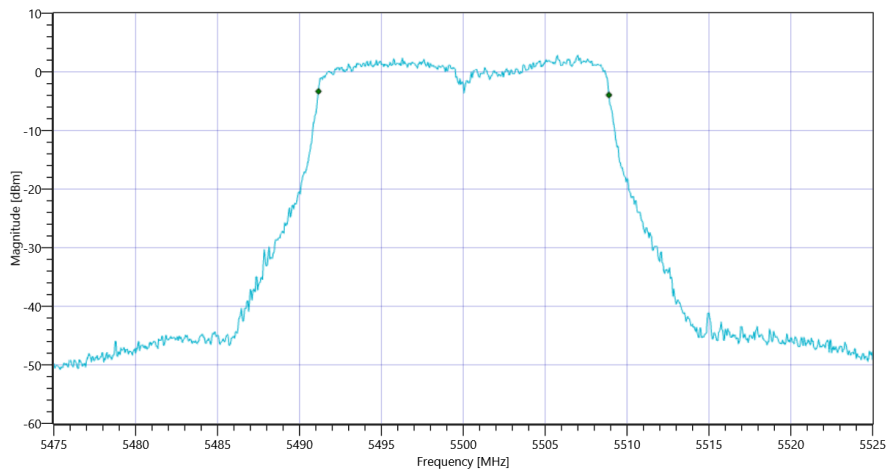
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.73   11.14   20
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

### RESULT

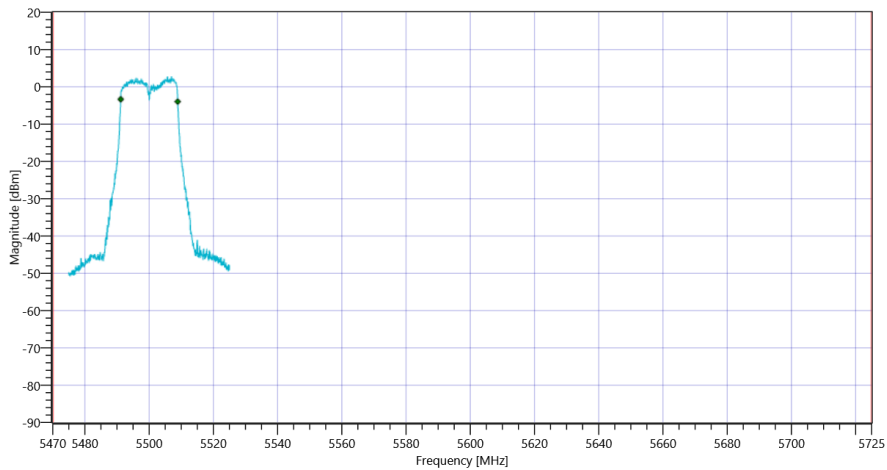
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.732	MHz	INFO
T1 99%	5470.000000	---	5491.1588	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5508.8911	MHz	

### Plot: Bandwidth only



FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 99PCT

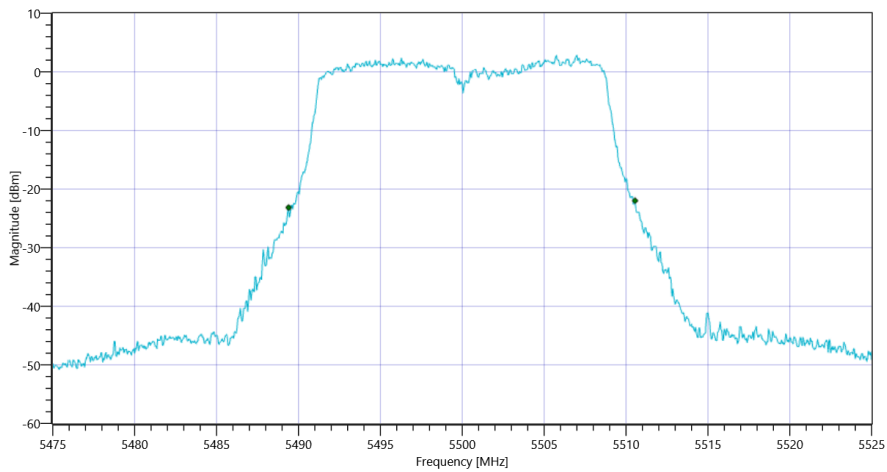
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

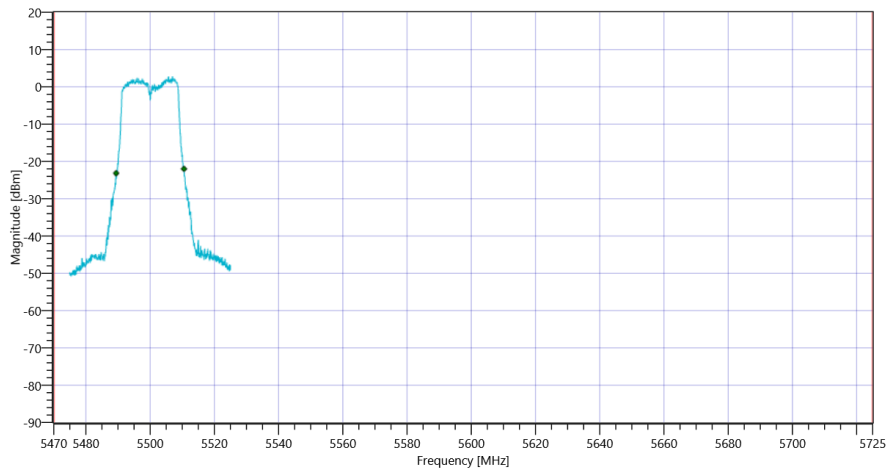
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	21.15	MHz	INFO
T1 26dB	5470.000000	---	5489.4000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5510.5500	MHz	

Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C 26dB

Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2C

General verdict

PASS

## FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 13:39:39
Ambit Temp [°C]   Humidity [rel%]	27.0   17
System Version	3.0.6.0
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
TC Version	0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5300
Frequency high to test	True   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5320 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.88	dBm	INFO
Ref. Frequency	---	---	5324.600	MHz	INFO

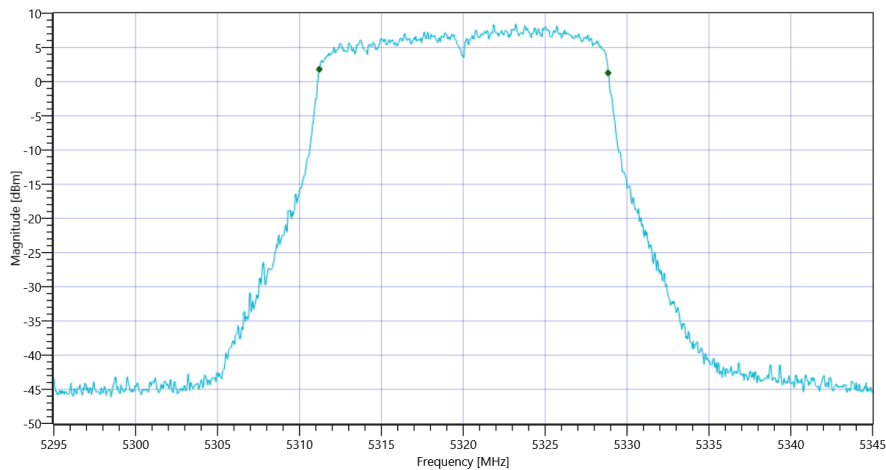
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	20.88   11.28   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

### RESULT

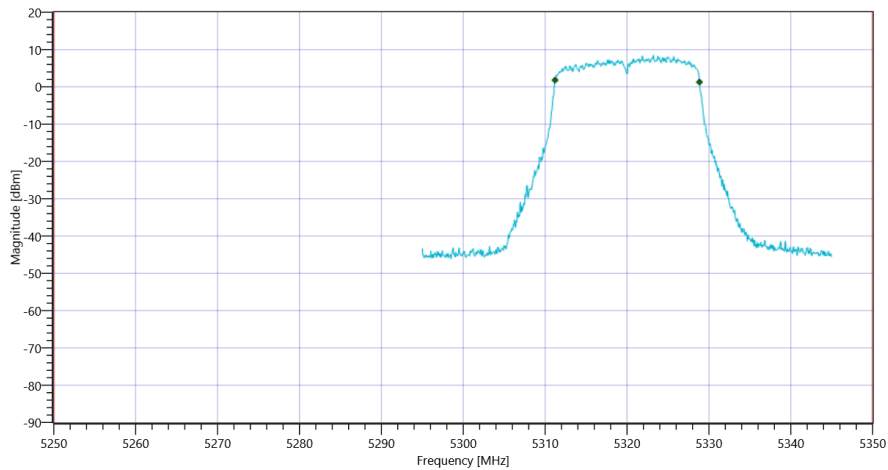
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.632	MHz	INFO
T1 99%	5250.000000	---	5311.2088	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5328.8412	MHz	PASS

### Plot: Bandwidth only



FCC Part 15.407 & ISCED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 99PCT

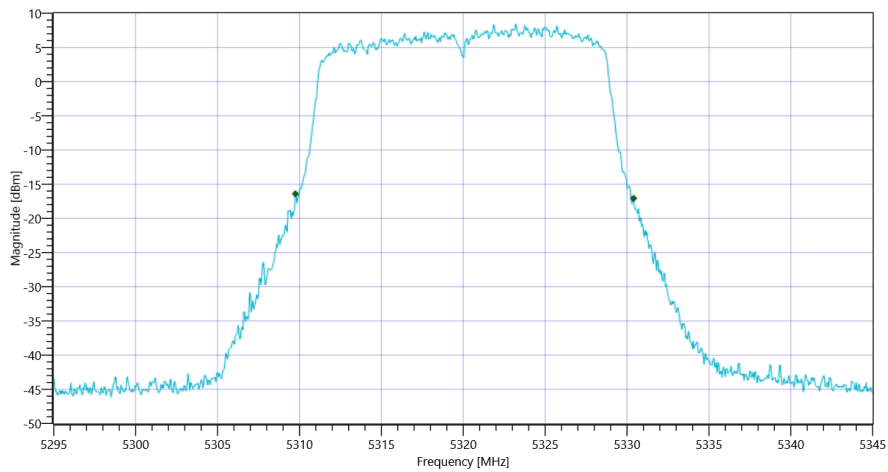
### Plot: Bandwidth within Band



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	20.65	MHz	INFO
T1 26dB	5250.000000	---	5309.7500	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5335.000000	5330.4000	MHz	PASS

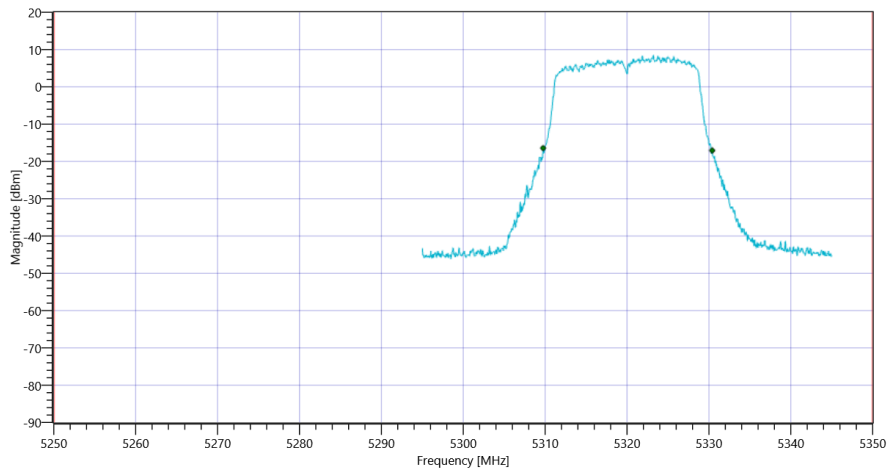
Plot: Bandwidth only



FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A 26dB

Plot: Bandwidth within Band





FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT20 mode U-NII-2A

General verdict

PASS

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 17:12:22
Ambit Temp [°C]   Humidity [rel%]	30.4   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	4
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] 5700
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5700 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.67	dBm	INFO
Ref. Frequency	---	---	5695.600	MHz	INFO

## Evaluation max. Duty Cycle

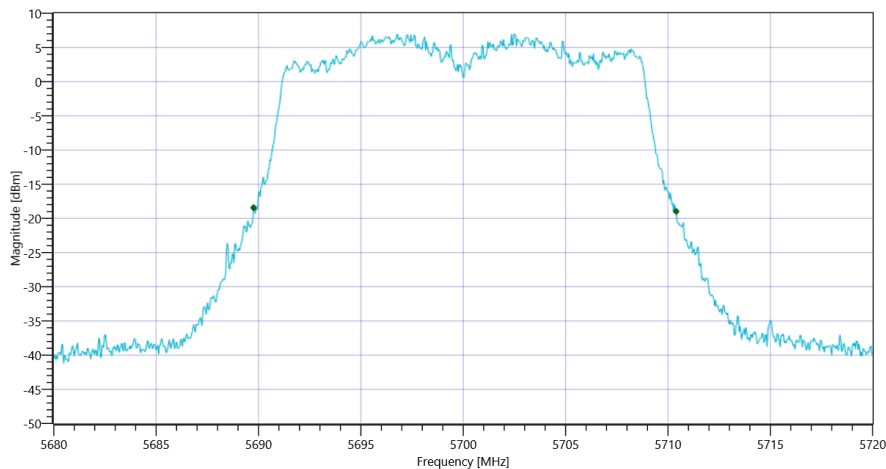
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.64	MHz	INFO
T1 26dB	---	---	5689.7600	MHz	INFO
T2 26dB	---	---	5710.4000	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C\_BW

## Maximum Output Power

### READ SA SETTINGS:

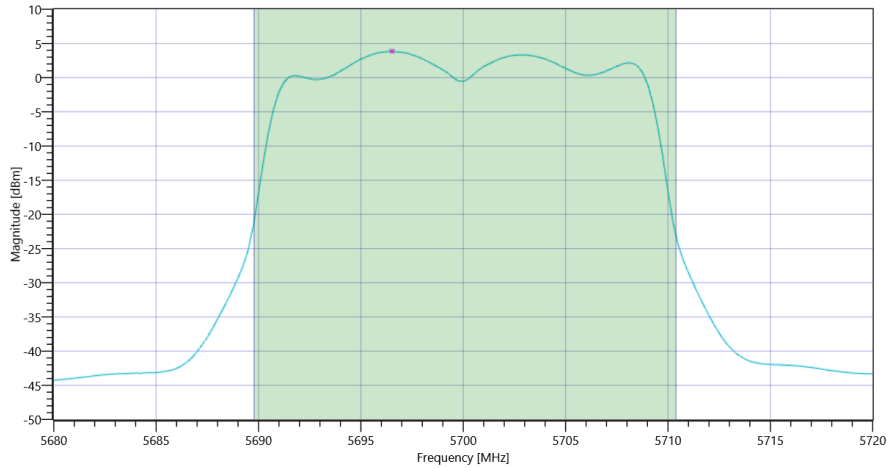
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.67   11.14   30
Start [MHz]   Stop [MHz]	5680.000   5720.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	14.19	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	14.19	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.15	14.19	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.86	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.86	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 17:09:41
Ambit Temp [°C]   Humidity [rel%]	30.3   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	4
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5600 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	10.72	dBm	INFO
Ref. Frequency	---	---	5604.800	MHz	INFO

## Evaluation max. Duty Cycle

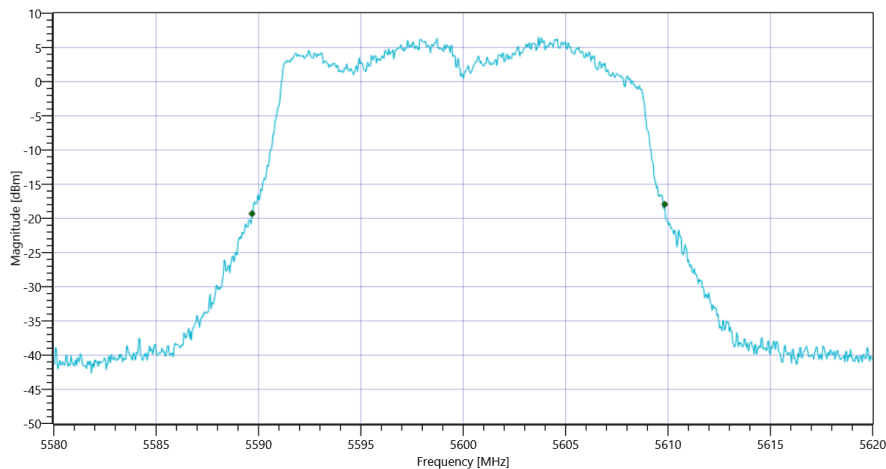
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.16	MHz	INFO
T1 26dB	---	---	5589.6800	MHz	INFO
T2 26dB	---	---	5609.8400	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C\_BW

## Maximum Output Power

### READ SA SETTINGS:

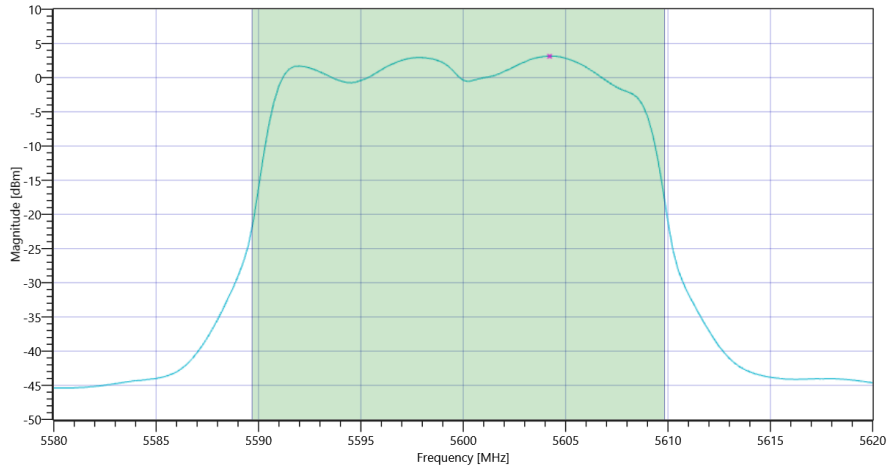
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	22.72   11.16   30
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.5	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	13.5	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.04	13.5	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.13	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.13	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 17:07:00
Ambit Temp [°C]   Humidity [rel%]	30.3   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	4
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	



## Test at TX 5500 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	9.43	dBm	INFO
Ref. Frequency	---	---	5505.790	MHz	INFO

## Evaluation max. Duty Cycle

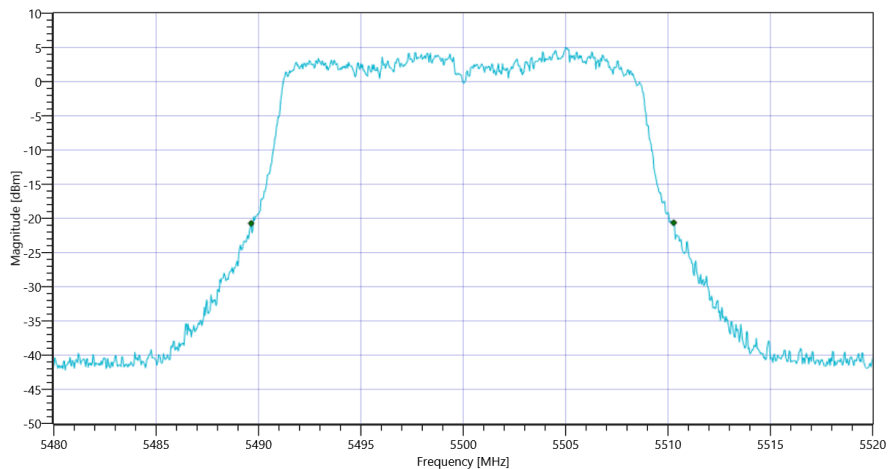
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.64	MHz	INFO
T1 26dB	---	---	5489.6400	MHz	INFO
T2 26dB	---	---	5510.2800	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C\_BW

## Maximum Output Power

### READ SA SETTINGS:

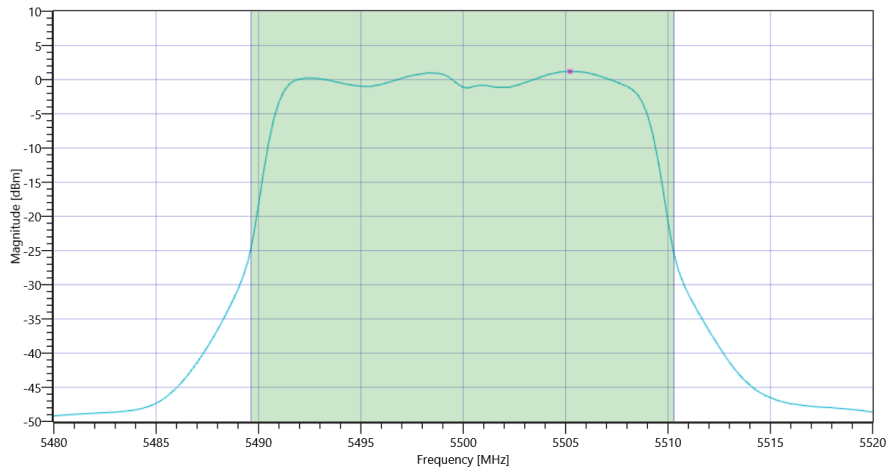
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	21.43   11.14   25
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.18	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	12.18	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.15	12.18	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	1.19	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	1.19	dBm/1MHz	PASS

General verdict	<b>PASS</b>
-----------------	-------------

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 17:04:19
Ambit Temp [°C]   Humidity [rel%]	30.2   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5300
Frequency high to test	True   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5320 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.45	dBm	INFO
Ref. Frequency	---	---	5322.400	MHz	INFO

## Evaluation max. Duty Cycle

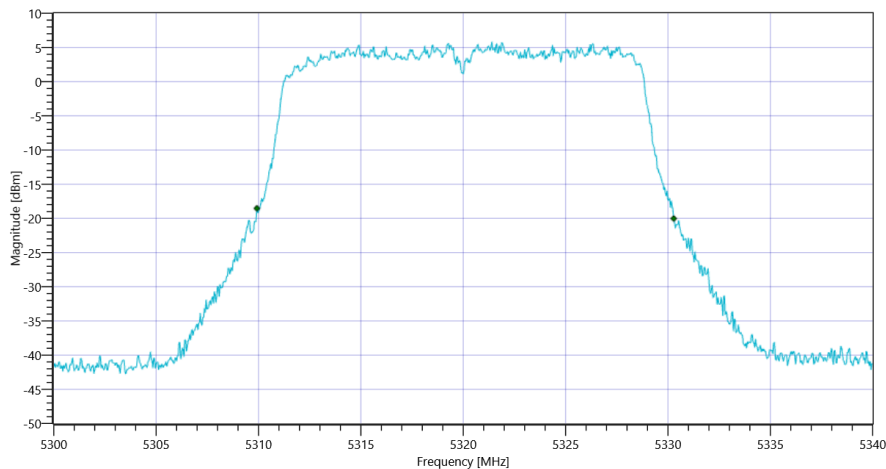
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.36	MHz	INFO
T1 26dB	---	---	5309.9200	MHz	INFO
T2 26dB	---	---	5330.2800	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A\_BW

## Maximum Output Power

### READ SA SETTINGS:

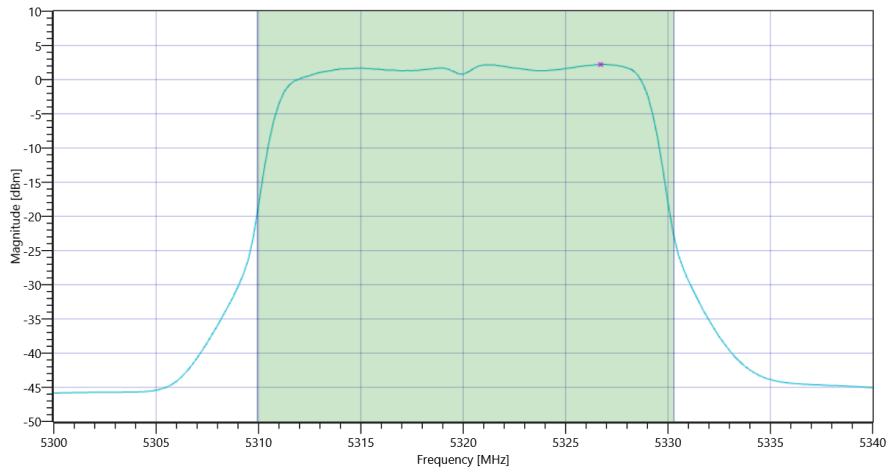
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.45   11.28   30
Start [MHz]   Stop [MHz]	5300.000   5340.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.72	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	13.72	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.09	13.72	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.22	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	2.22	dBm/1MHz	PASS

General verdict	<b>PASS</b>
-----------------	-------------

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 17:01:38
Ambit Temp [°C]   Humidity [rel%]	30.2   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5300
Frequency high to test	False   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5300 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.63	dBm	INFO
Ref. Frequency	---	---	5294.410	MHz	INFO

## Evaluation max. Duty Cycle

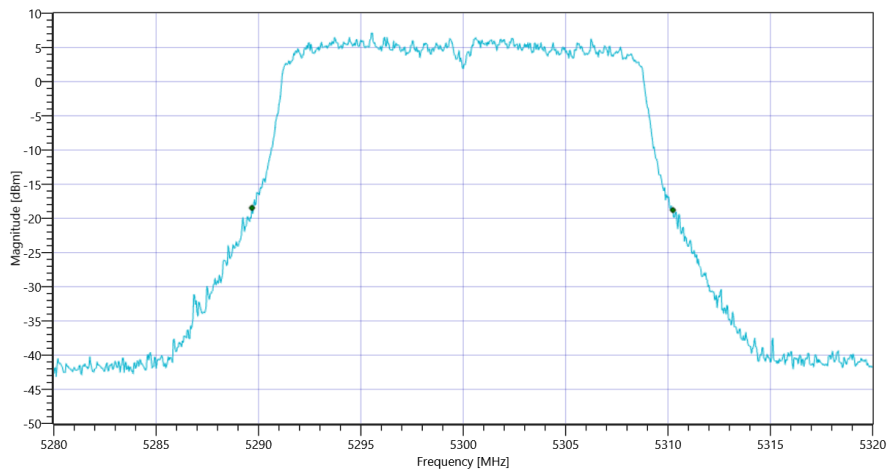
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.56	MHz	INFO
T1 26dB	---	---	5289.6800	MHz	INFO
T2 26dB	---	---	5310.2400	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A\_BW

## Maximum Output Power

### READ SA SETTINGS:

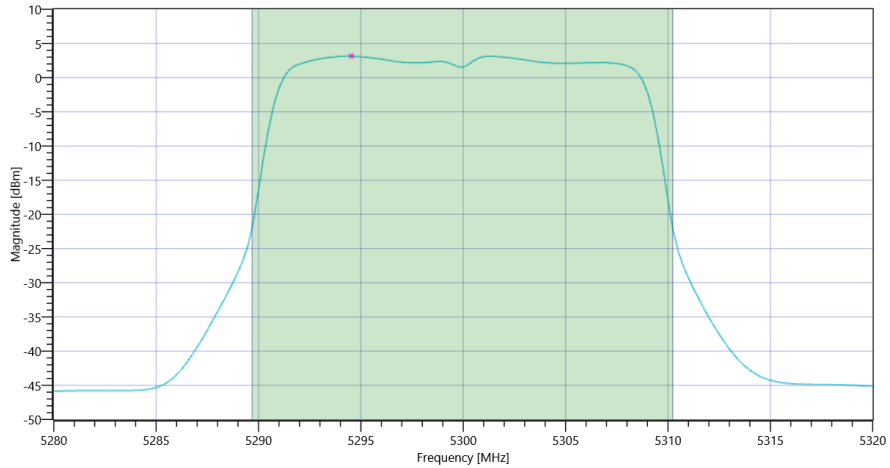
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.63   11.32   30
Start [MHz]   Stop [MHz]	5280.000   5320.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	14.63	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	14.63	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.13	14.63	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.15	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.15	dBm/1MHz	PASS

General verdict	<b>PASS</b>
-----------------	-------------



## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 16:58:57
Ambit Temp [°C]   Humidity [rel%]	30.2   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	4
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5300
Frequency high to test	False   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5260 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.03	dBm	INFO
Ref. Frequency	---	---	5262.800	MHz	INFO

## Evaluation max. Duty Cycle

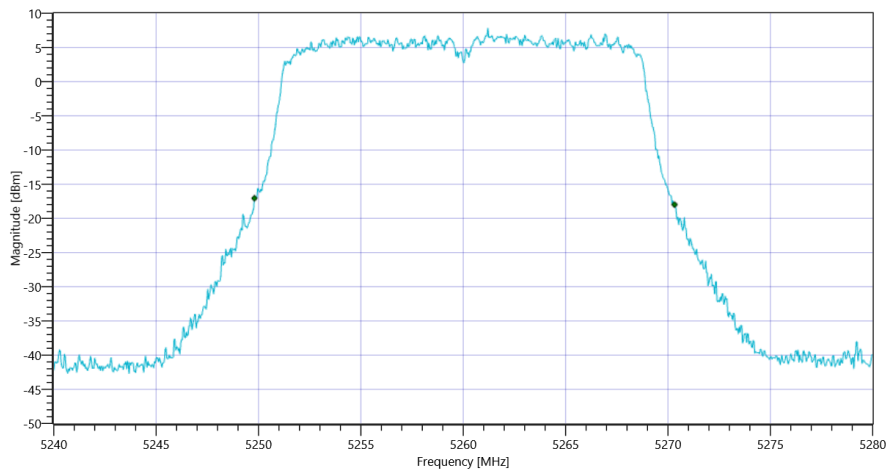
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.52	MHz	INFO
T1 26dB	---	---	5249.8000	MHz	INFO
T2 26dB	---	---	5270.3200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A\_BW

## Maximum Output Power

### READ SA SETTINGS:

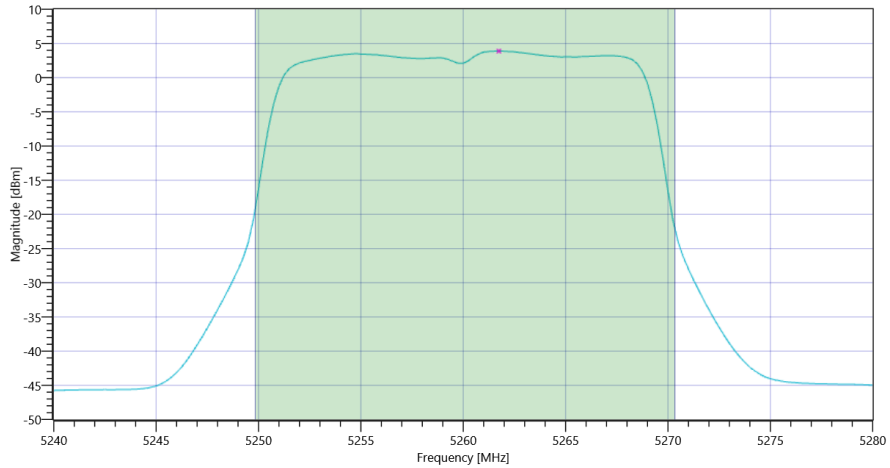
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.03   11.33   30
Start [MHz]   Stop [MHz]	5240.000   5280.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.3	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	15.3	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.12	15.3	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.89	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.89	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References	
TC Start	04.04.2022 16:56:17
Ambit Temp [°C]   Humidity [rel%]	30.1   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-1
Antenna Port used	4
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5240 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.87	dBm	INFO
Ref. Frequency	---	---	5235.800	MHz	INFO

## Evaluation max. Duty Cycle

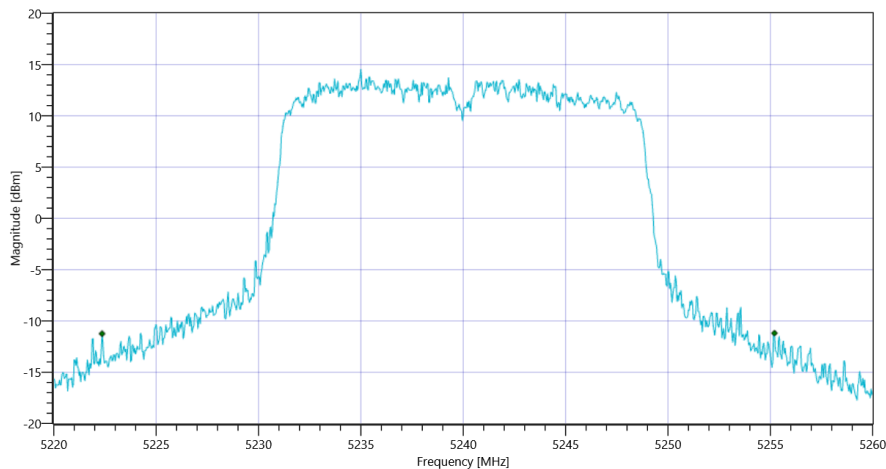
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	32.84	MHz	INFO
T1 26dB	---	---	5222.3600	MHz	INFO
T2 26dB	---	---	5255.2000	MHz	INFO



## Maximum Output Power

### READ SA SETTINGS:

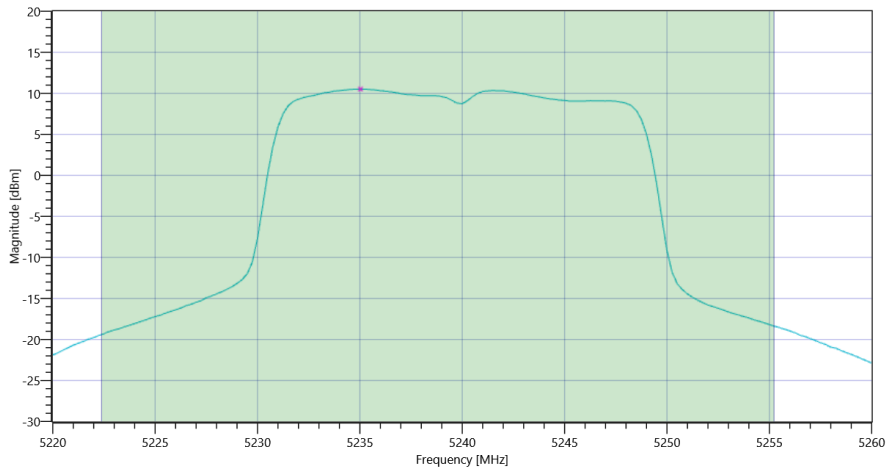
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.87   11.32   35
Start [MHz]   Stop [MHz]	5220.000   5260.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	21.91	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	21.91	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.16	21.91	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	10.51	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	10.51	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References	
TC Start	04.04.2022 16:53:29
Ambit Temp [°C]   Humidity [rel%]	30.1   15
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-1
Antenna Port used	4
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5200 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.01	dBm	INFO
Ref. Frequency	---	---	5195.800	MHz	INFO

## Evaluation max. Duty Cycle

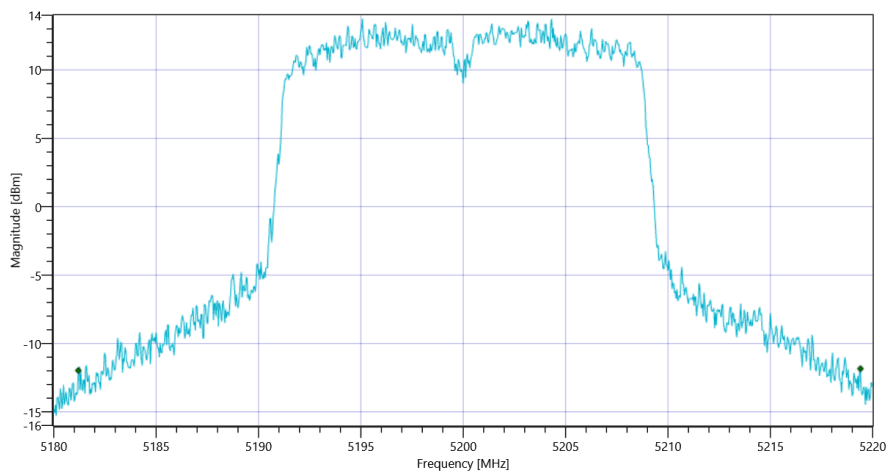
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	38.2	MHz	INFO
T1 26dB	---	---	5181.2000	MHz	INFO
T2 26dB	---	---	5219.4000	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.01   11.27   35
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

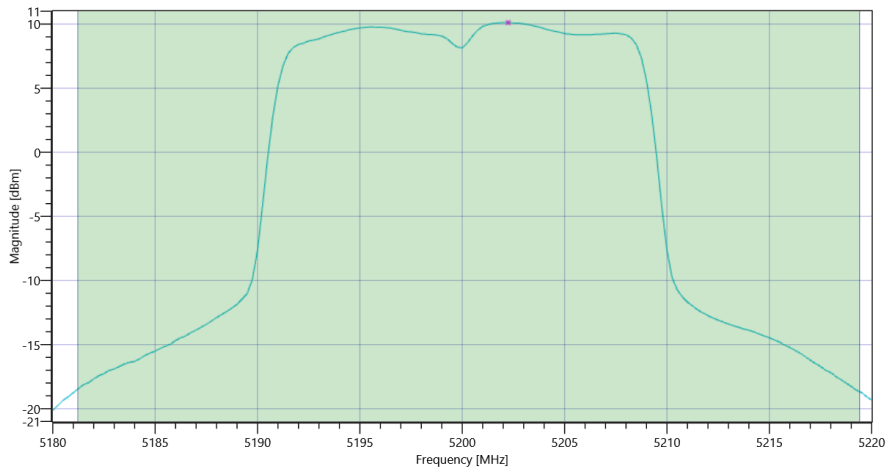
### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	21.59	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					



**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	21.59	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.82	21.59	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	10.12	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	10.12	dBm/1MHz	PASS

General verdict	<b>PASS</b>
-----------------	-------------

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 15:26:06
Ambit Temp [°C]   Humidity [rel%]	29.3   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	3
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] 5700
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5700 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.55	dBm	INFO
Ref. Frequency	---	---	5698.000	MHz	INFO

## Evaluation max. Duty Cycle

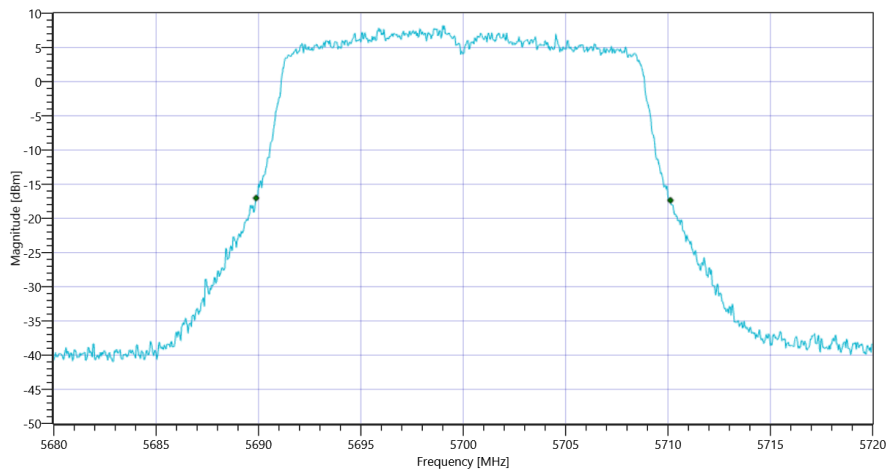
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.24	MHz	INFO
T1 26dB	---	---	5689.8800	MHz	INFO
T2 26dB	---	---	5710.1200	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C\_BW

## Maximum Output Power

### READ SA SETTINGS:

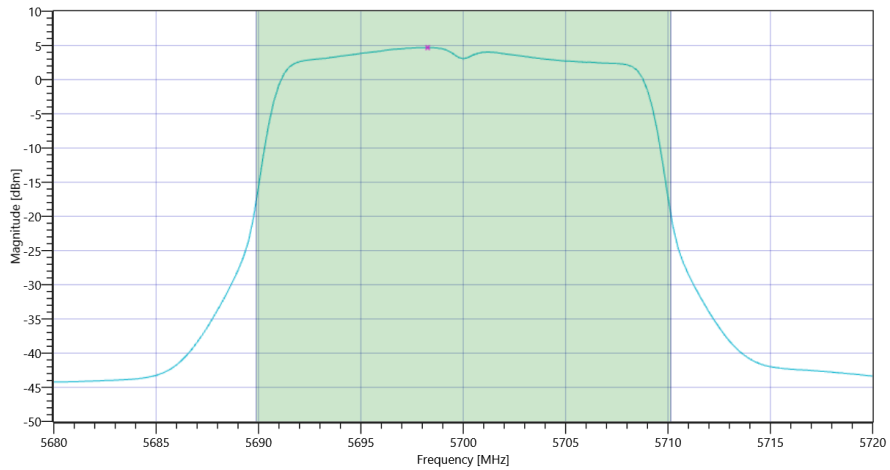
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.55   11.14   30
Start [MHz]   Stop [MHz]	5680.000   5720.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.66	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	15.66	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.06	15.66	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	4.69	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	4.69	dBm/1MHz	PASS

General verdict	<b>PASS</b>
-----------------	-------------

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 15:23:25
Ambit Temp [°C]   Humidity [rel%]	29.3   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5600 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	9.87	dBm	INFO
Ref. Frequency	---	---	5605.390	MHz	INFO

## Evaluation max. Duty Cycle

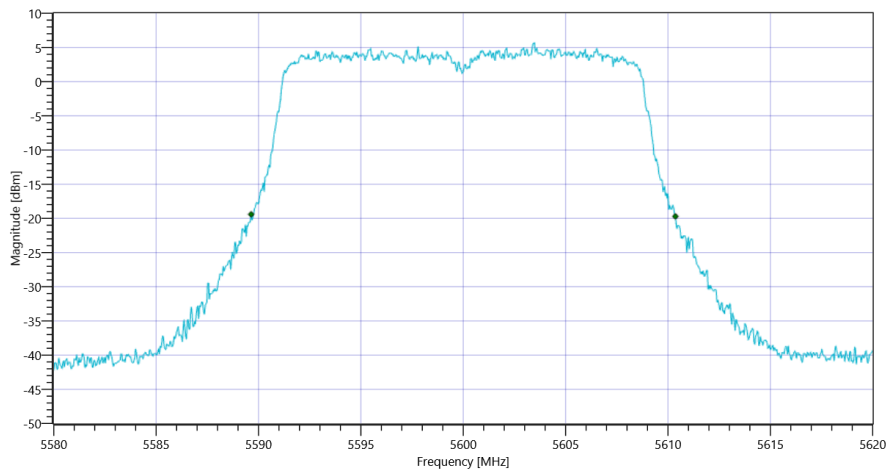
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.72	MHz	INFO
T1 26dB	---	---	5589.6400	MHz	INFO
T2 26dB	---	---	5610.3600	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C\_BW

## Maximum Output Power

### READ SA SETTINGS:

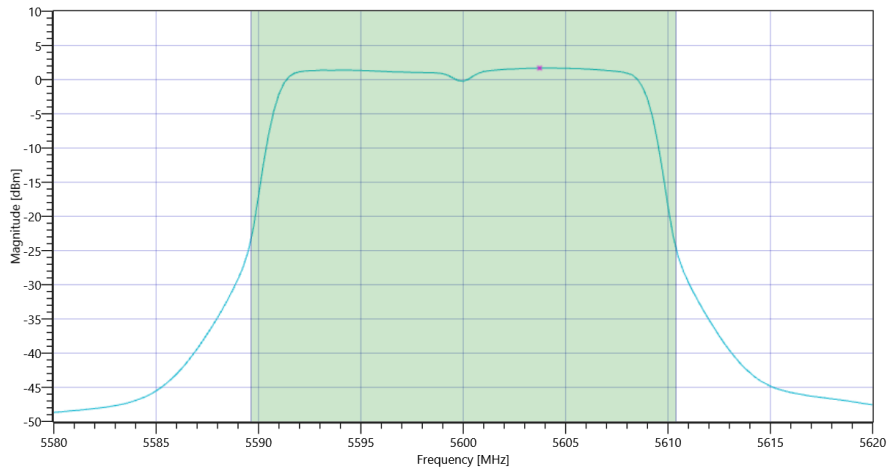
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	21.87   11.16   25
Start [MHz]   Stop [MHz]	5580.000   5620.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.46	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	13.46	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.16	13.46	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	1.69	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	1.69	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 15:20:45
Ambit Temp [°C]   Humidity [rel%]	29.2   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	



## Test at TX 5500 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.16	dBm	INFO
Ref. Frequency	---	---	5503.400	MHz	INFO

## Evaluation max. Duty Cycle

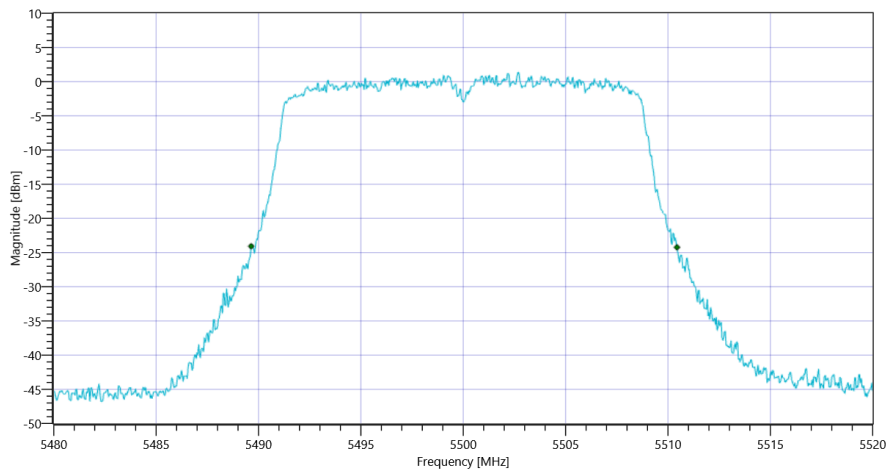
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.8	MHz	INFO
T1 26dB	---	---	5489.6400	MHz	INFO
T2 26dB	---	---	5510.4400	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C\_BW

## Maximum Output Power

### READ SA SETTINGS:

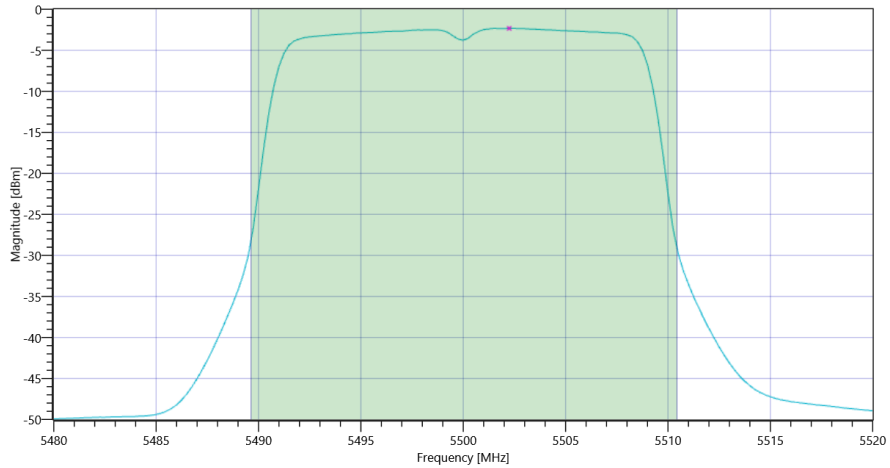
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.16   11.14   25
Start [MHz]   Stop [MHz]	5480.000   5520.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	9.4	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	9.4	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.18	9.4	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-2.32	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-2.32	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 15:18:04
Ambit Temp [°C]   Humidity [rel%]	29.2   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5300
Frequency high to test	True   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5320 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.67	dBm	INFO
Ref. Frequency	---	---	5317.800	MHz	INFO

## Evaluation max. Duty Cycle

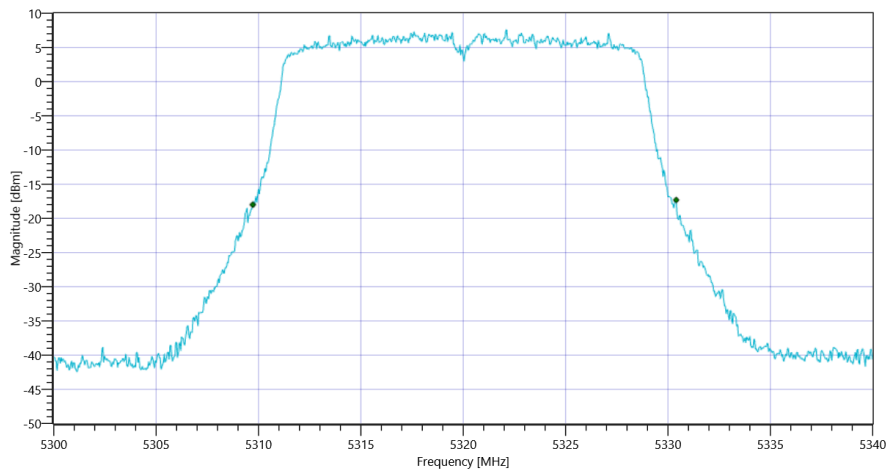
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.68	MHz	INFO
T1 26dB	---	---	5309.7200	MHz	INFO
T2 26dB	---	---	5330.4000	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A\_BW

## Maximum Output Power

### READ SA SETTINGS:

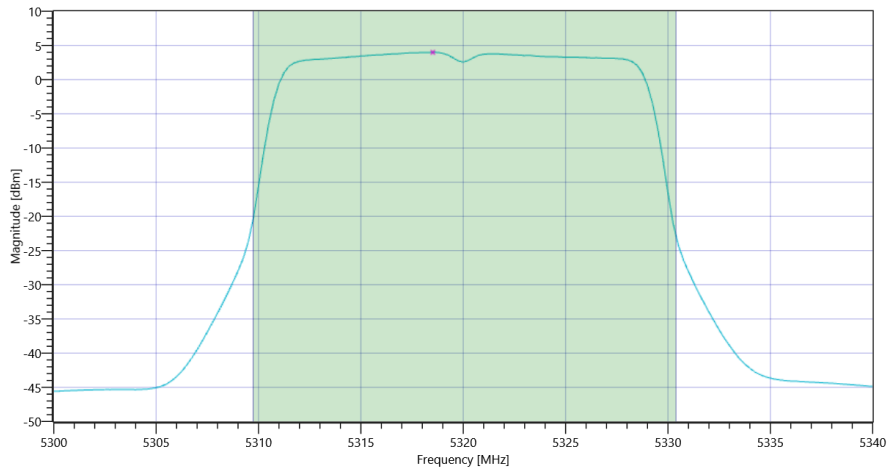
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.67   11.28   30
Start [MHz]   Stop [MHz]	5300.000   5340.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.58	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	15.58	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.16	15.58	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	3.99	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	3.99	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 15:15:24
Ambit Temp [°C]   Humidity [rel%]	29.1   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 5260
Frequency mid to test	True   Freq [MHz] 5300
Frequency high to test	False   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5300 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	11.92	dBm	INFO
Ref. Frequency	---	---	5302.000	MHz	INFO

## Evaluation max. Duty Cycle

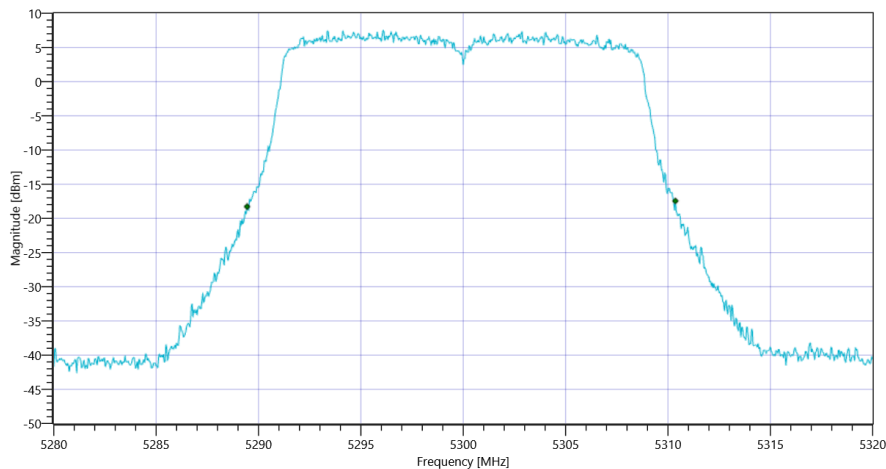
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.92	MHz	INFO
T1 26dB	---	---	5289.4400	MHz	INFO
T2 26dB	---	---	5310.3600	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A\_BW

## Maximum Output Power

### READ SA SETTINGS:

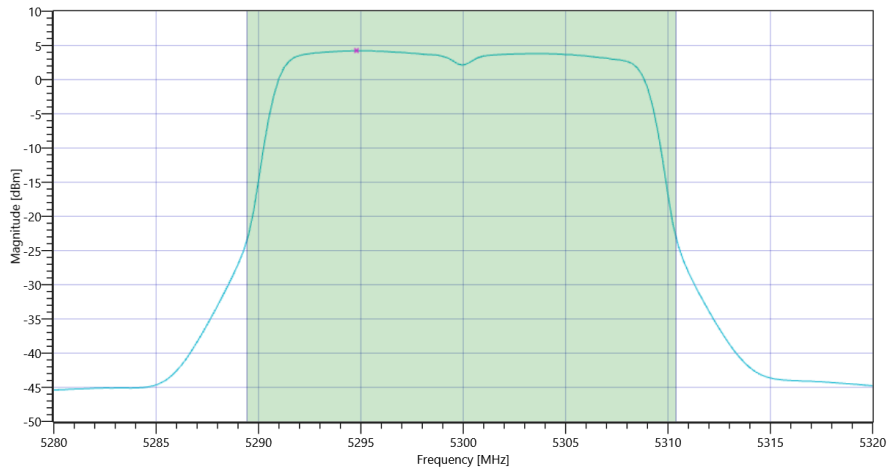
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	23.92   11.32   30
Start [MHz]   Stop [MHz]	5280.000   5320.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.82	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	15.82	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.21	15.82	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	4.25	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	4.25	dBm/1MHz	PASS

General verdict **PASS**



## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References	
TC Start	04.04.2022 15:12:43
Ambit Temp [°C]   Humidity [rel%]	29.1   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2A
Antenna Port used	3
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 5260
Frequency mid to test	False   Freq [MHz] 5300
Frequency high to test	False   Freq [MHz] 5320
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5260 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.45	dBm	INFO
Ref. Frequency	---	---	5261.800	MHz	INFO

## Evaluation max. Duty Cycle

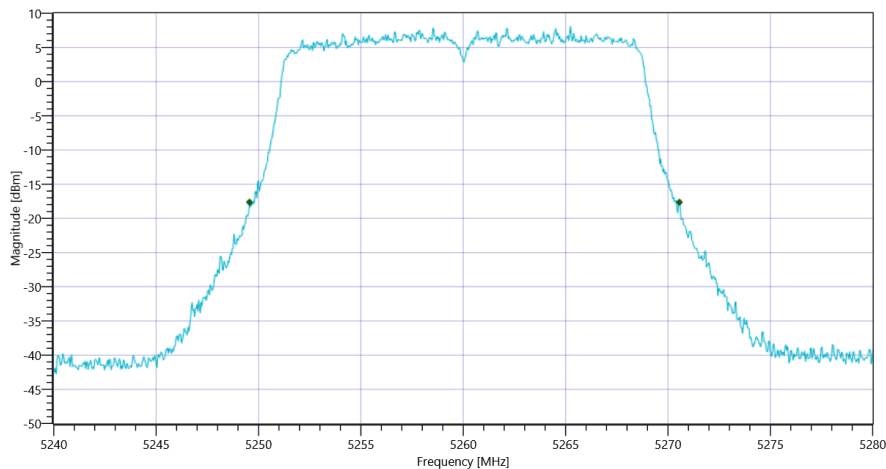
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21	MHz	INFO
T1 26dB	---	---	5249.5600	MHz	INFO
T2 26dB	---	---	5270.5600	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A\_BW

## Maximum Output Power

### READ SA SETTINGS:

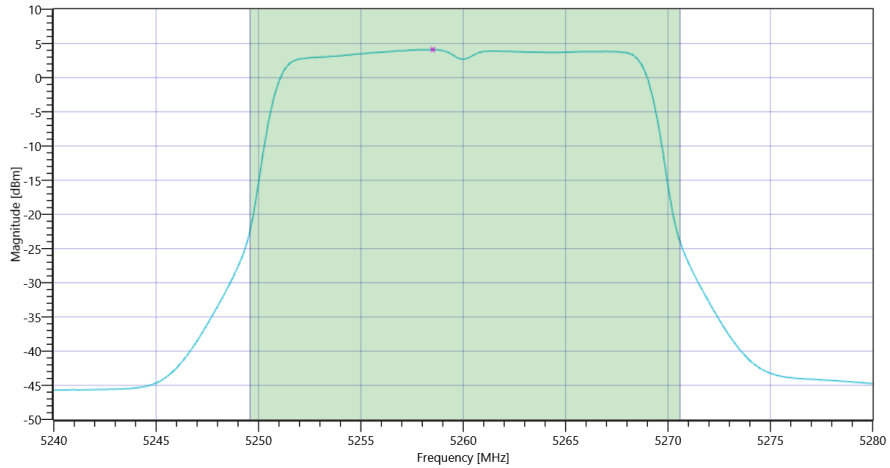
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	24.45   11.33   30
Start [MHz]   Stop [MHz]	5240.000   5280.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	15.81	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	15.81	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.22	15.81	dBm	PASS



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2A Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	4.1	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	4.1	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References	
TC Start	04.04.2022 15:10:02
Ambit Temp [°C]   Humidity [rel%]	29.0   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-1
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5240 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	18.11	dBm	INFO
Ref. Frequency	---	---	5235.400	MHz	INFO

## Evaluation max. Duty Cycle

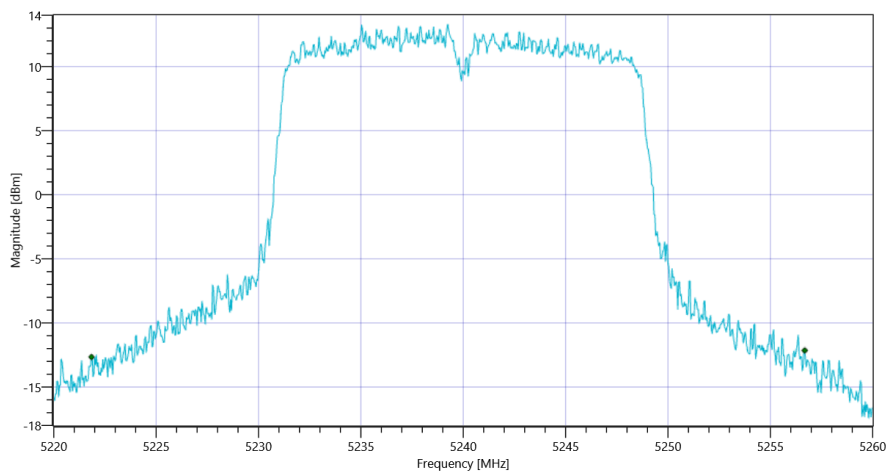
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	34.84	MHz	INFO
T1 26dB	---	---	5221.8400	MHz	INFO
T2 26dB	---	---	5256.6800	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

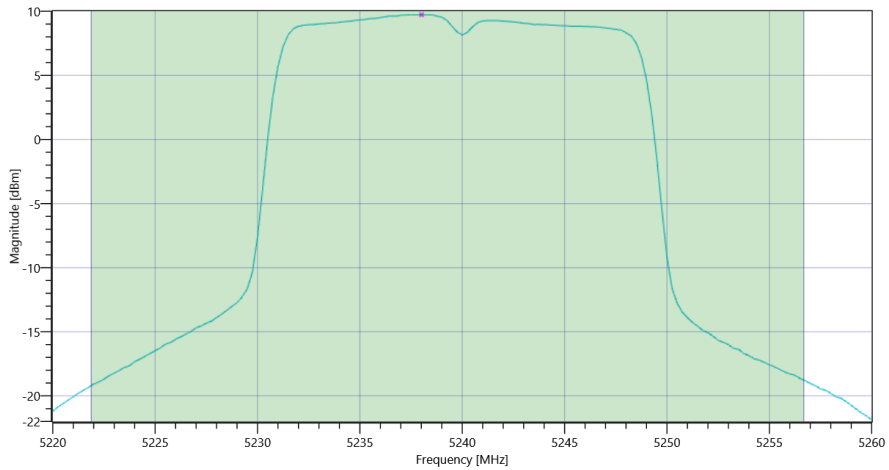
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	30.11   11.32   35
Start [MHz]   Stop [MHz]	5220.000   5260.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	RMS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	53700   1   161   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	21.32	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	21.32	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.42	21.32	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	9.73	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	9.73	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References	
TC Start	04.04.2022 15:07:14
Ambit Temp [°C]   Humidity [rel%]	28.9   16
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-1
Antenna Port used	3
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]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	

## Test at TX 5200 MHz

### RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	16.95	dBm	INFO
Ref. Frequency	---	---	5203.800	MHz	INFO

## Evaluation max. Duty Cycle

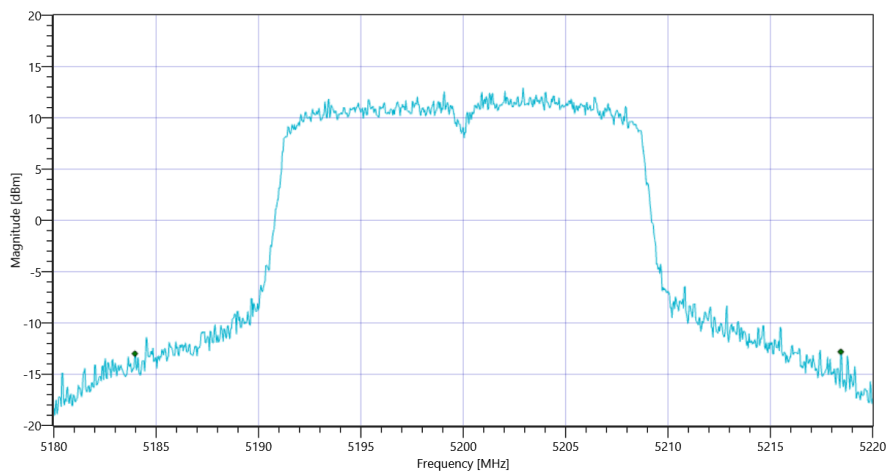
### Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Duty Cycle min	---	---	0	dB	DC > 98% defined

## Evaluation Bandwidth

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	34.48	MHz	INFO
T1 26dB	---	---	5183.9600	MHz	INFO
T2 26dB	---	---	5218.4400	MHz	INFO



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	28.95   11.27   35
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

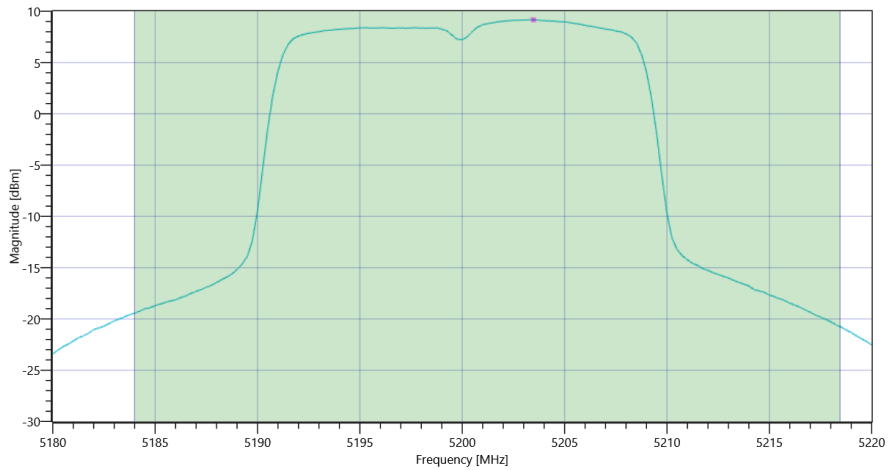
### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	20.62	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					



**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	20.62	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.38	20.62	dBm	not applicable



FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-1 Max OP and PSD

**Power Spectral Density**

**RESULT**

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	9.17	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	17	9.17	dBm/1MHz	PASS

General verdict **PASS**

## FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References	
TC Start	04.04.2022 13:46:02
Ambit Temp [°C]   Humidity [rel%]	27.5   17
System Version	3.0.6.0
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	4
User Interaction	No
Device Class UNII_1	AP indoor

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode U-NII-2C
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] 5700
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI	