

Test at TX 5785 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	20.29	dBm	INFO
Ref. Frequency	---	---	5789.200	MHz	INFO

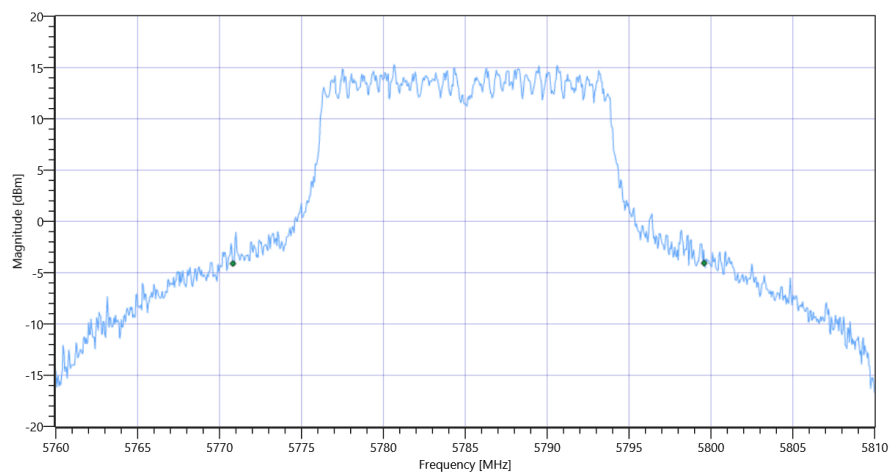
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	28.29 18.76 25
Start [MHz] Stop [MHz]	5760.000 5810.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT

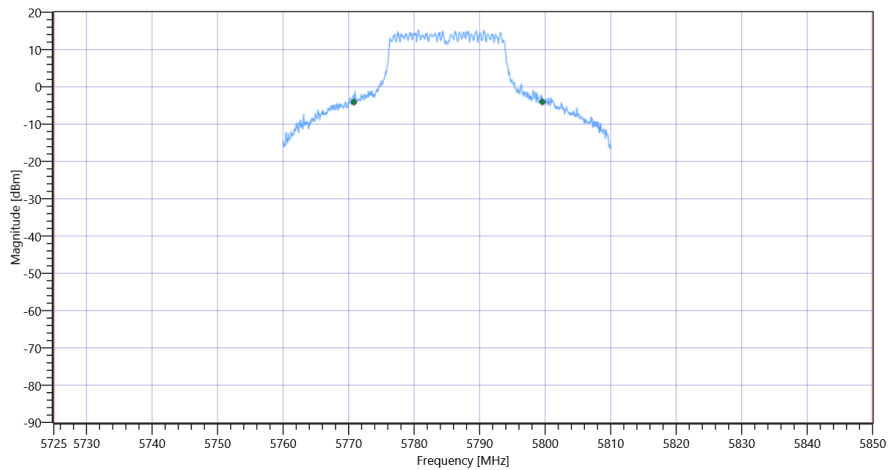
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	28.771	MHz	INFO
T1 99%	5725.000000	---	5770.8142	MHz	PASS
T2 99%	---	5850.000000	5799.5854	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3 99PCT

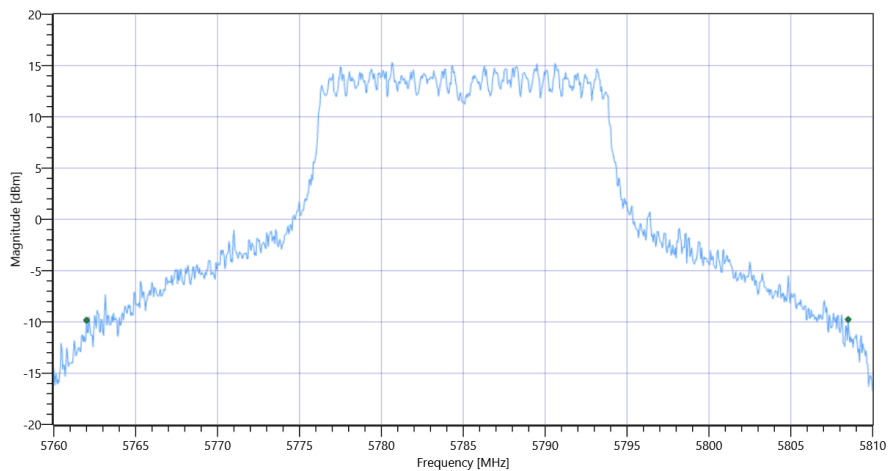
Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3

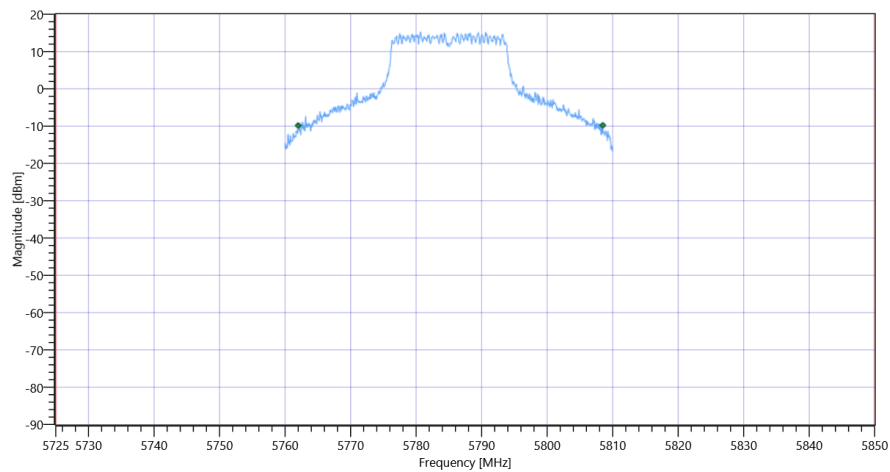
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	46.5	MHz	INFO
T1 26dB	5725.000000	---	5762.0000	MHz	PASS
T2 26dB	---	5850.000000	5808.5000	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3 26dB

Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3

General verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3

Test References

TC Start	14.07.2022 16:49:59
Ambit Temp [°C] Humidity [rel%]	28.1 40
System Version	3.2.0.2
Test Specification	FCC 15.407, ISED RSS247 -
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-3
Add. Information	

EUT Common Settings WLAN5Gx

Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5825 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.44	dBm	INFO
Ref. Frequency	---	---	5825.800	MHz	INFO

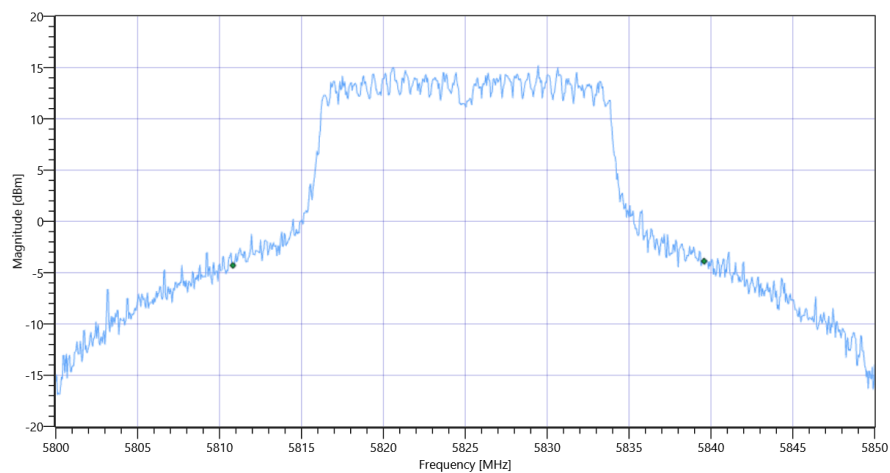
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	27.44 18.74 25
Start [MHz] Stop [MHz]	5800.000 5850.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT

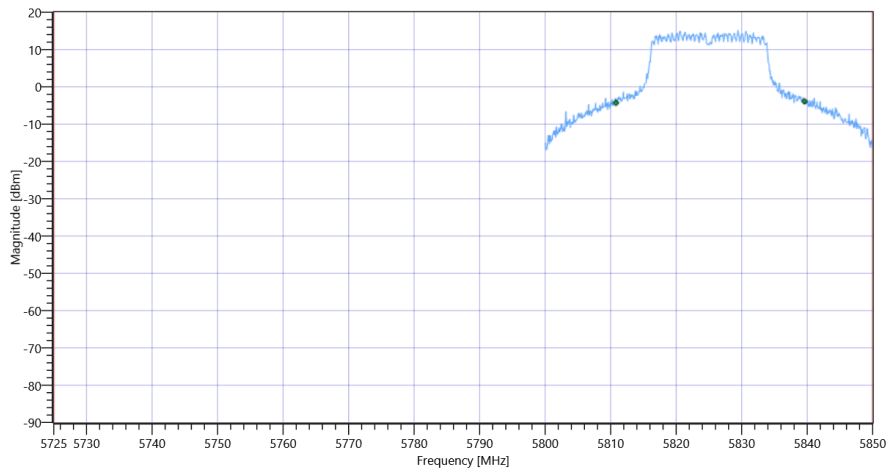
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	28.771	MHz	INFO
T1 99%	5725.000000	---	5810.8142	MHz	PASS
T2 99%	---	5850.000000	5839.5854	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3 99PCT

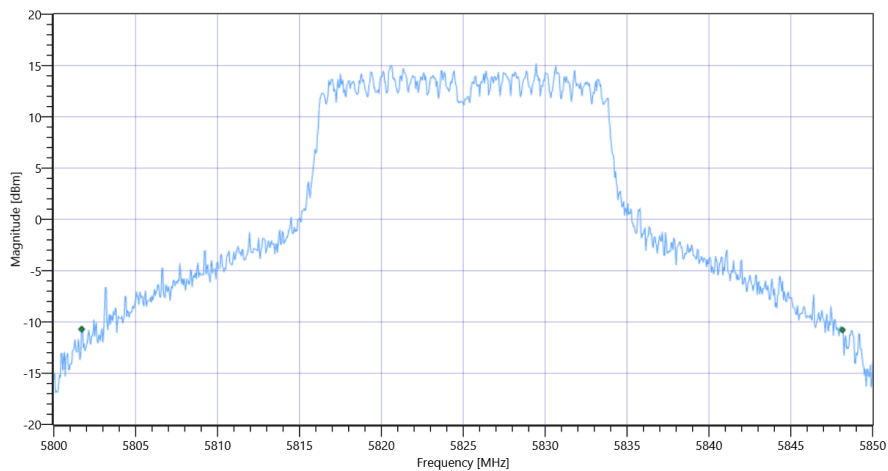
Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3

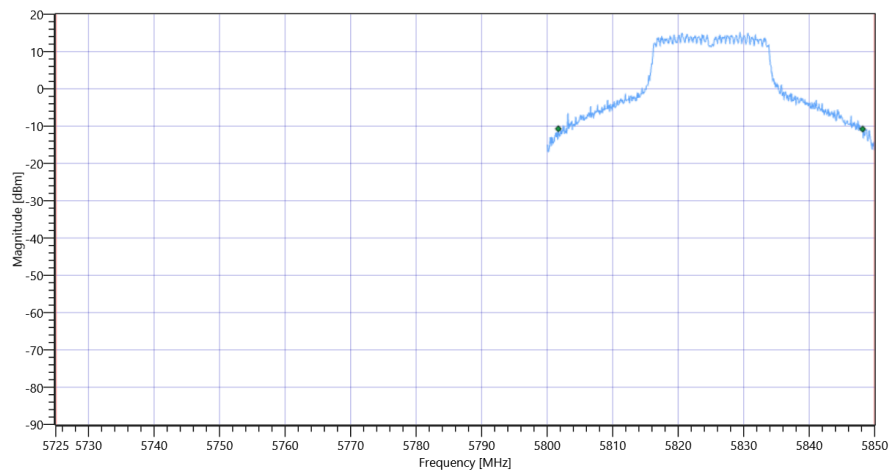
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	46.45	MHz	INFO
T1 26dB	5725.000000	---	5801.7000	MHz	PASS
T2 26dB	---	5850.000000	5848.1500	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3 26dB

Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-3

General verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References

TC Start	23.08.2022 08:54:31
Ambit Temp [°C] Humidity [rel%]	21.9 55
System Version	3.3.0.2
Test Specification	FCC 15.407, ISED RSS247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5180 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.28	dBm	INFO
Ref. Frequency	---	---	5181.200	MHz	INFO

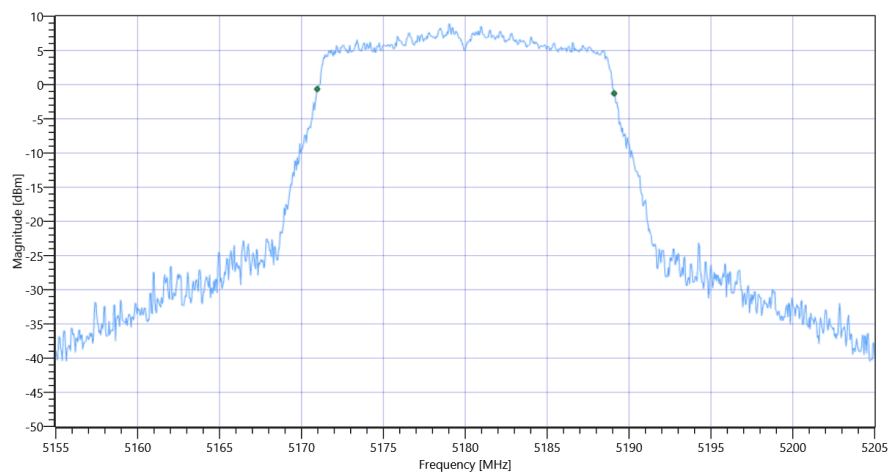
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	21.28 17.99 20
Start [MHz] Stop [MHz]	5155.000 5205.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT

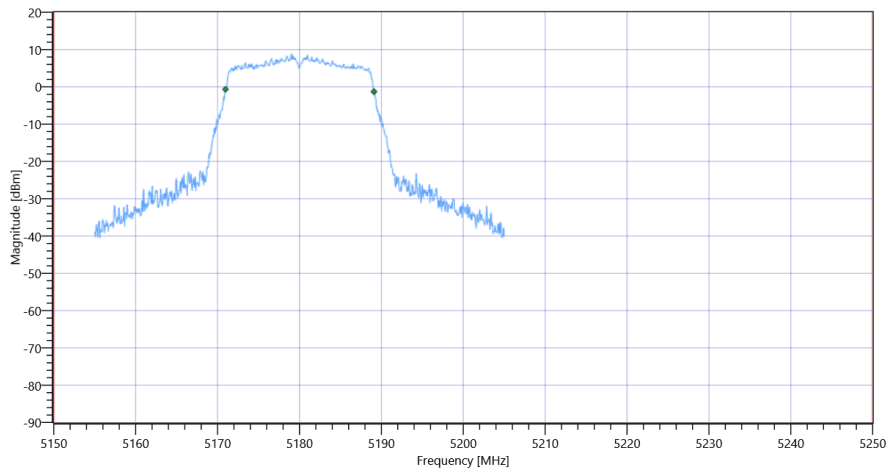
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.132	MHz	INFO
T1 99%	5150.000000	---	5170.9590	MHz	PASS
T2 99%	---	5250.000000	5189.0909	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

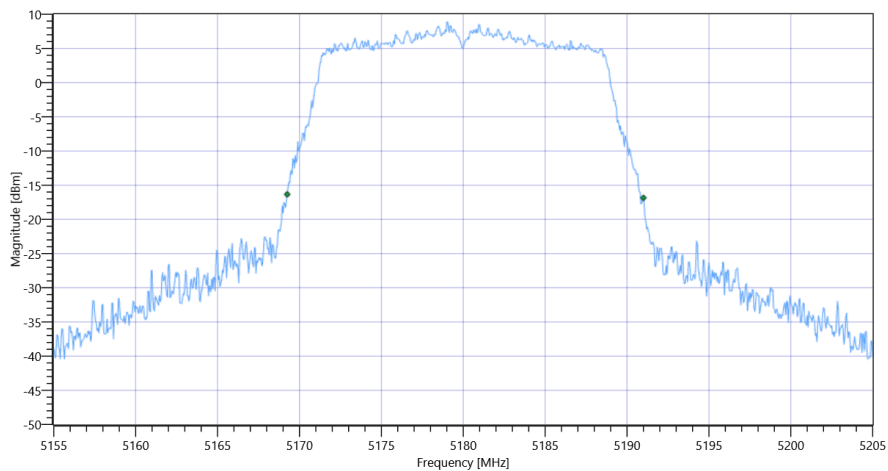
Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

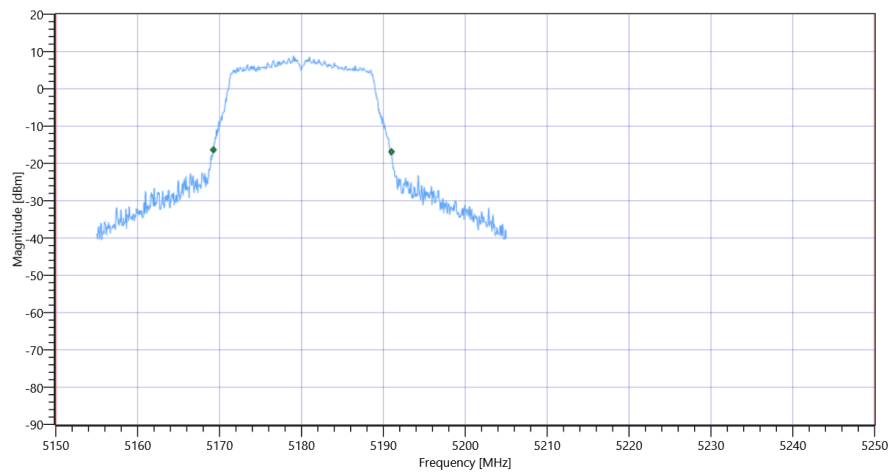
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.75	MHz	INFO
T1 26dB	5150.000000	---	5169.2500	MHz	PASS
T2 26dB	---	5250.000000	5191.0000	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References

TC Start	23.08.2022 08:57:18
Ambit Temp [°C] Humidity [rel%]	22.0 55
System Version	3.3.0.2
Test Specification	FCC 15.407, ISED RSS247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5180 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.68	dBm	INFO
Ref. Frequency	---	---	5182.000	MHz	INFO

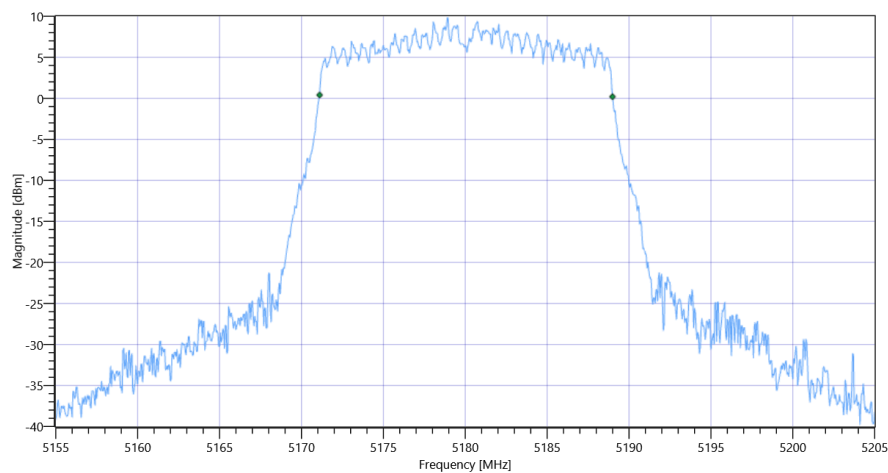
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	21.68 17.99 20
Start [MHz] Stop [MHz]	5155.000 5205.000
RBW [MHz] VBW [MHz]	0.300000 1.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT

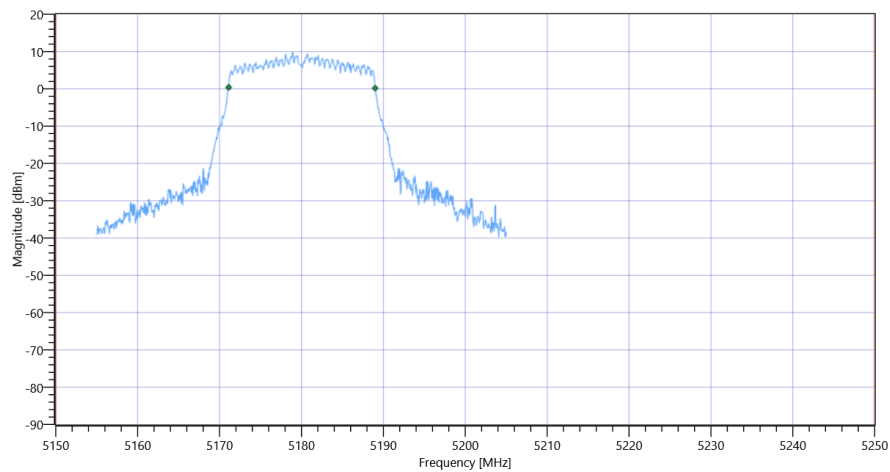
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.882	MHz	INFO
T1 99%	5150.000000	---	5171.1089	MHz	PASS
T2 99%	---	5250.000000	5188.9910	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

Plot: Bandwidth within Band

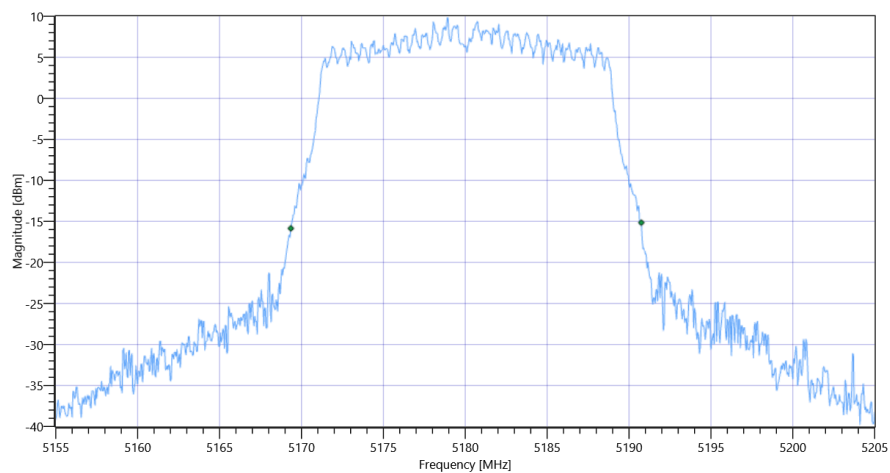


FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

RESULT

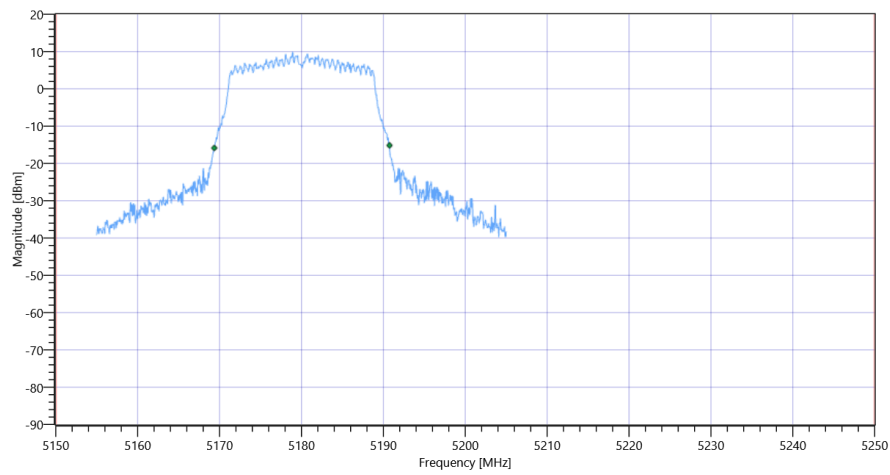
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.4	MHz	INFO
T1 26dB	5150.000000	---	5169.3500	MHz	PASS
T2 26dB	---	5250.000000	5190.7500	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References

TC Start	23.08.2022 09:08:48
Ambit Temp [°C] Humidity [rel%]	22.2 54
System Version	3.3.0.2
Test Specification	FCC 15.407, ISED RSS247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5200 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.64	dBm	INFO
Ref. Frequency	---	---	5197.600	MHz	INFO

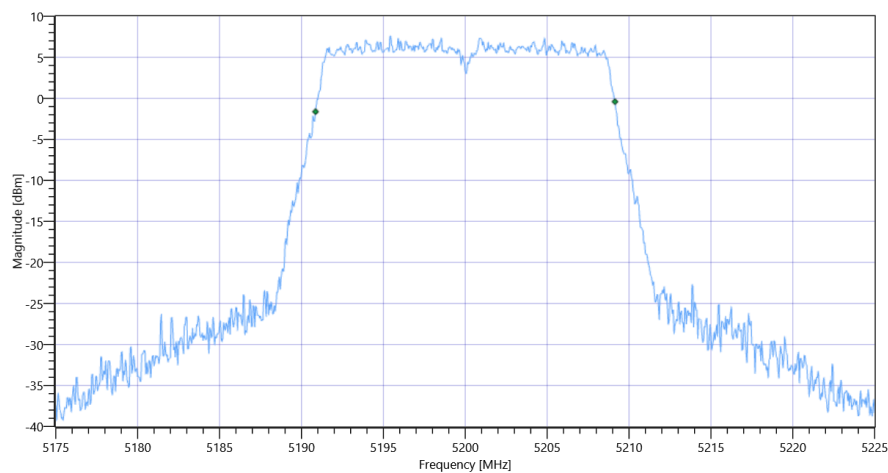
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	21.64 17.91 20
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

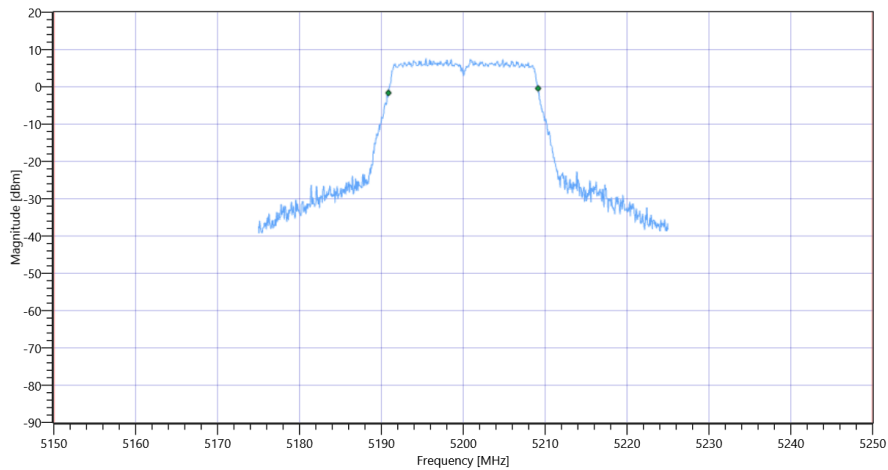
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.282	MHz	INFO
T1 99%	5150.000000	---	5190.8591	MHz	PASS
T2 99%	---	5250.000000	5209.1409	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

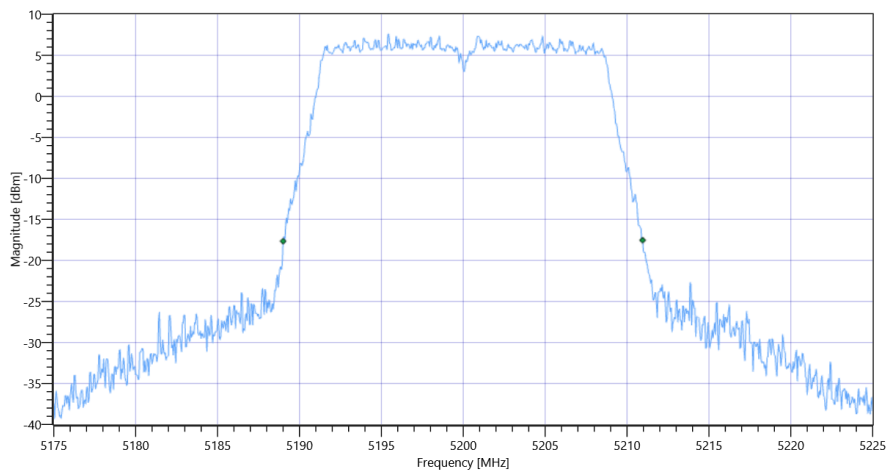
Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

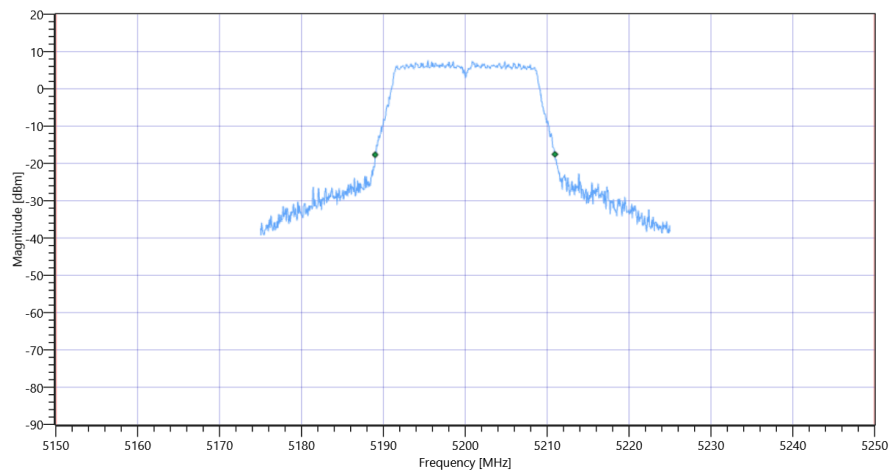
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.95	MHz	INFO
T1 26dB	5150.000000	---	5189.0000	MHz	PASS
T2 26dB	---	5250.000000	5210.9500	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References

TC Start	23.08.2022 09:11:33
Ambit Temp [°C] Humidity [rel%]	22.3 53
System Version	3.3.0.2
Test Specification	FCC 15.407, ISED RSS247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5200 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.10	dBm	INFO
Ref. Frequency	---	---	5194.210	MHz	INFO

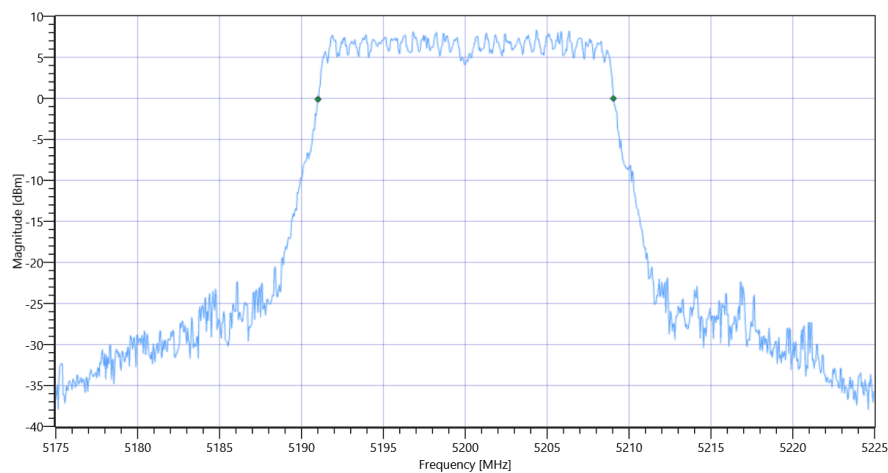
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	21.10 17.91 20
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

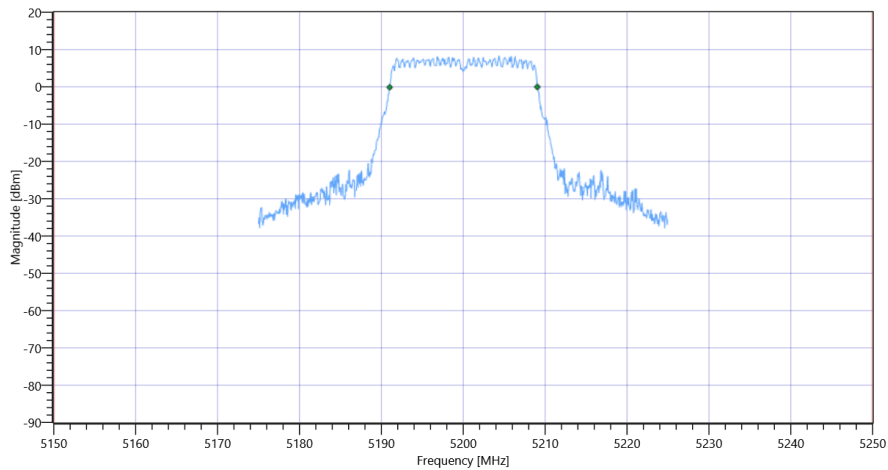
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.032	MHz	INFO
T1 99%	5150.000000	---	5191.0090	MHz	PASS
T2 99%	---	5250.000000	5209.0410	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

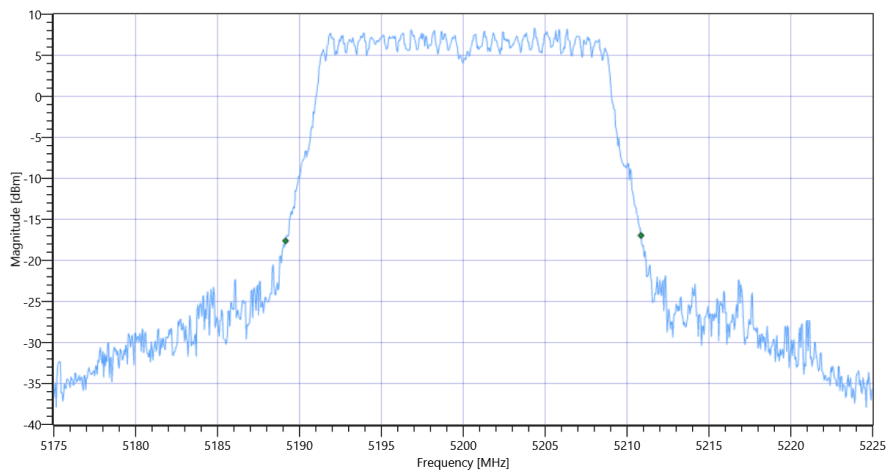
Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

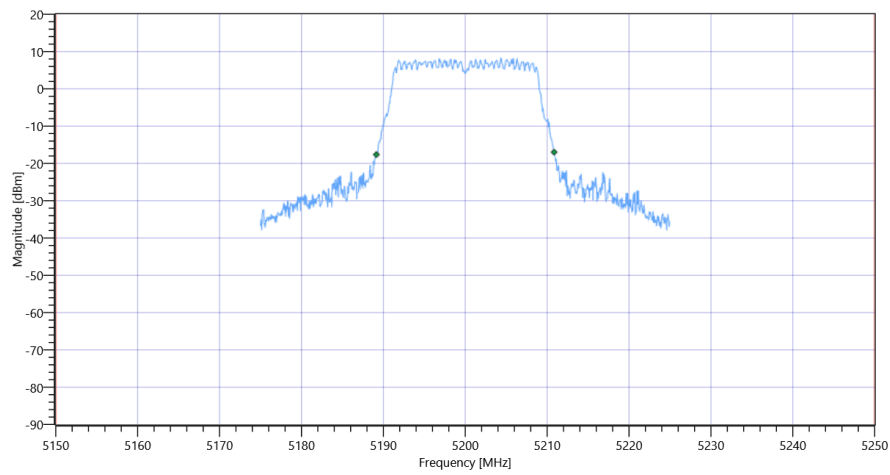
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.7	MHz	INFO
T1 26dB	5150.000000	---	5189.1500	MHz	PASS
T2 26dB	---	5250.000000	5210.8500	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References

TC Start	23.08.2022 09:19:31
Ambit Temp [°C] Humidity [rel%]	22.3 53
System Version	3.3.0.2
Test Specification	FCC 15.407, ISED RSS247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5240
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5240 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.19	dBm	INFO
Ref. Frequency	---	---	5242.400	MHz	INFO

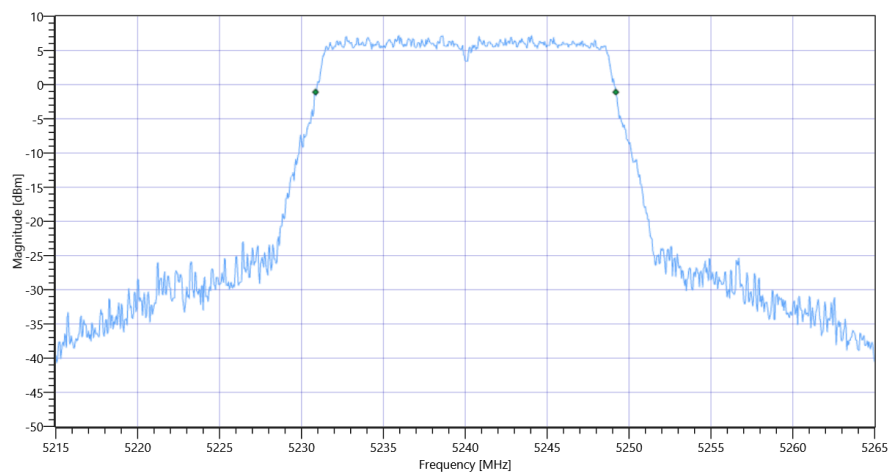
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.19 18.56 20
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

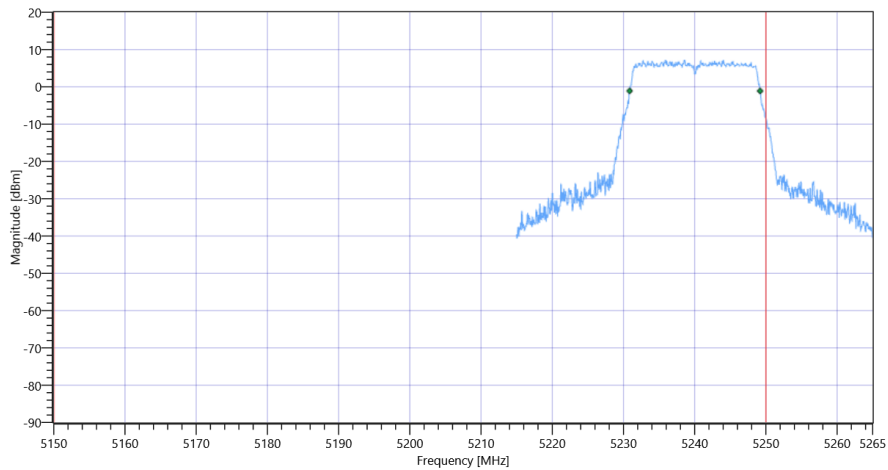
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	18.332	MHz	INFO
T1 99%	5150.000000	---	5230.8591	MHz	PASS
T2 99%	---	5250.000000	5249.1908	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

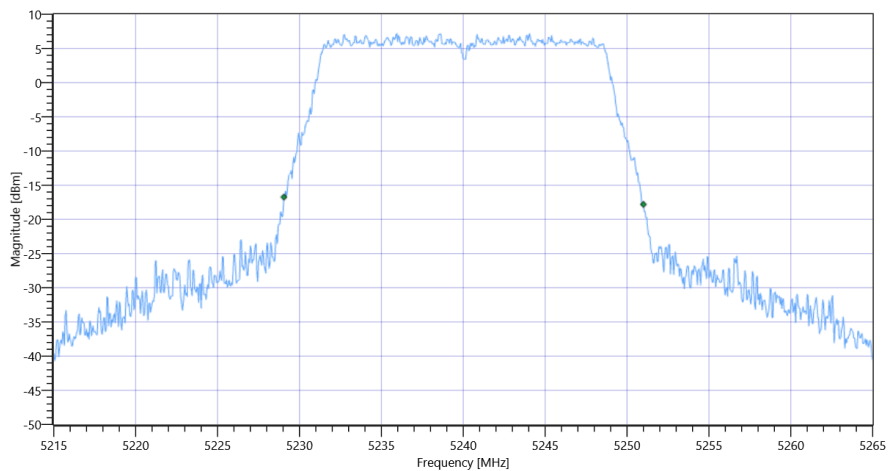
Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

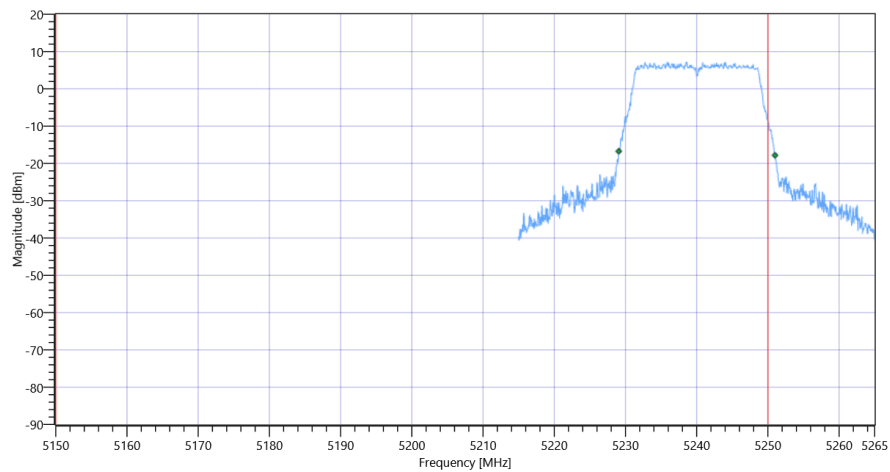
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.95	MHz	INFO
T1 26dB	5150.000000	---	5229.0500	MHz	PASS
T2 26dB	---	5250.000000	5251.0000	MHz	DFS required

Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

Test References

TC Start	23.08.2022 09:22:10
Ambit Temp [°C] Humidity [rel%]	22.3 53
System Version	3.3.0.2
Test Specification	FCC 15.407, ISED RSS247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5240
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5240 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	12.96	dBm	INFO
Ref. Frequency	---	---	5237.000	MHz	INFO

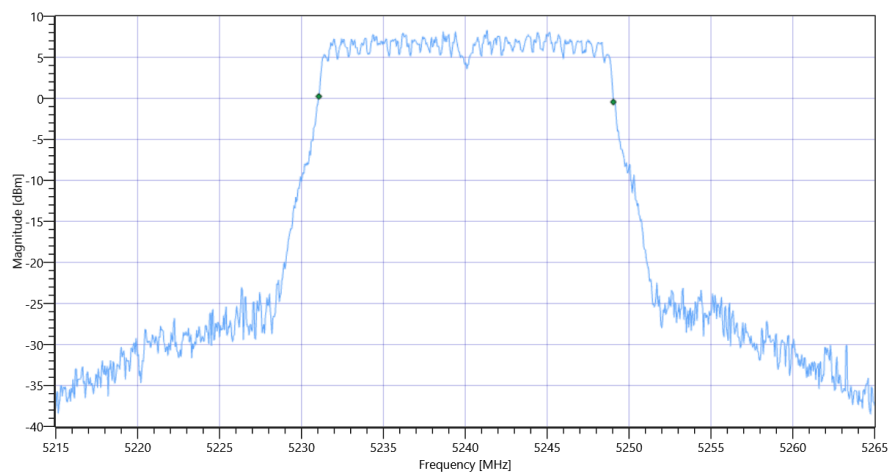
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.96 18.56 20
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

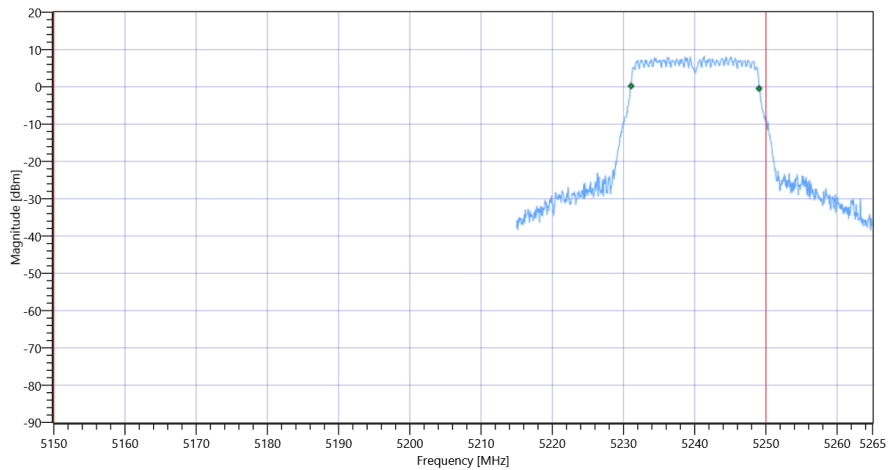
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.982	MHz	INFO
T1 99%	5150.000000	---	5231.0589	MHz	PASS
T2 99%	---	5250.000000	5249.0410	MHz	PASS

Plot: Bandwidth only



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 99PCT

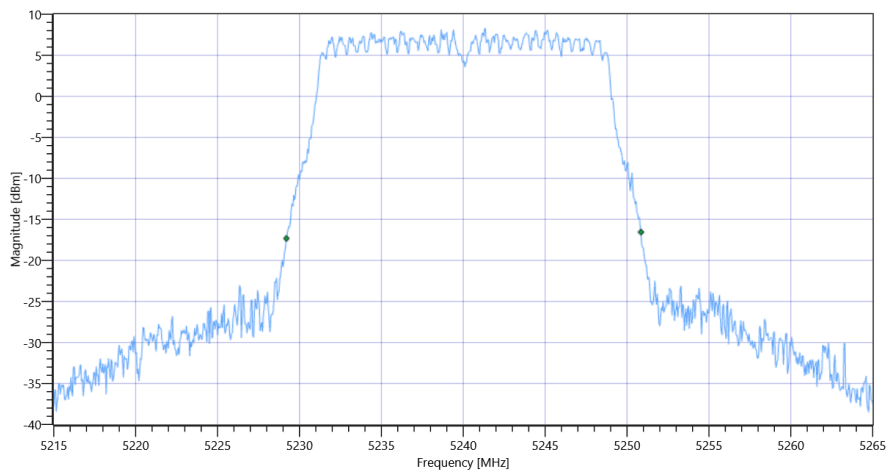
Plot: Bandwidth within Band



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

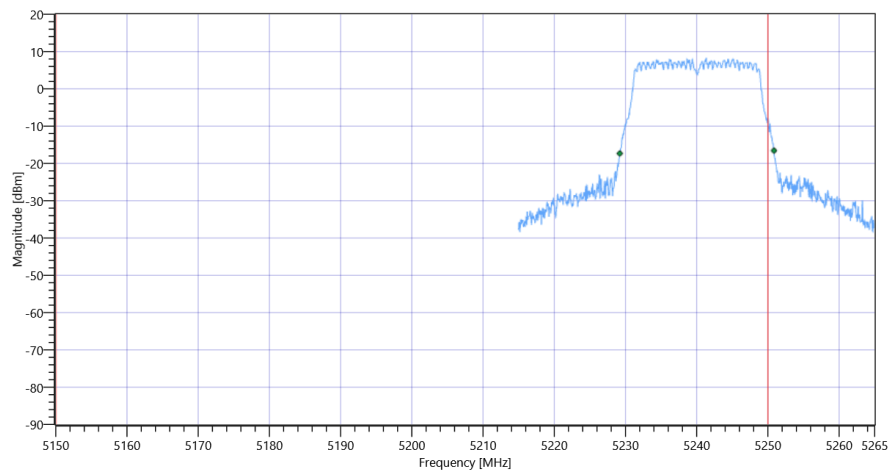
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.65	MHz	INFO
T1 26dB	5150.000000	---	5229.2000	MHz	PASS
T2 26dB	---	5250.000000	5250.8500	MHz	DFS required

Plot: Bandwidth only



FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1 26dB

Plot: Bandwidth within Band



FCC 15.407, ISSED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx ac-VHT20 mode U-NII-1

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References

TC Start	14.07.2022 14:19:21
Ambit Temp [°C] Humidity [rel%]	27.5 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5260 MHz

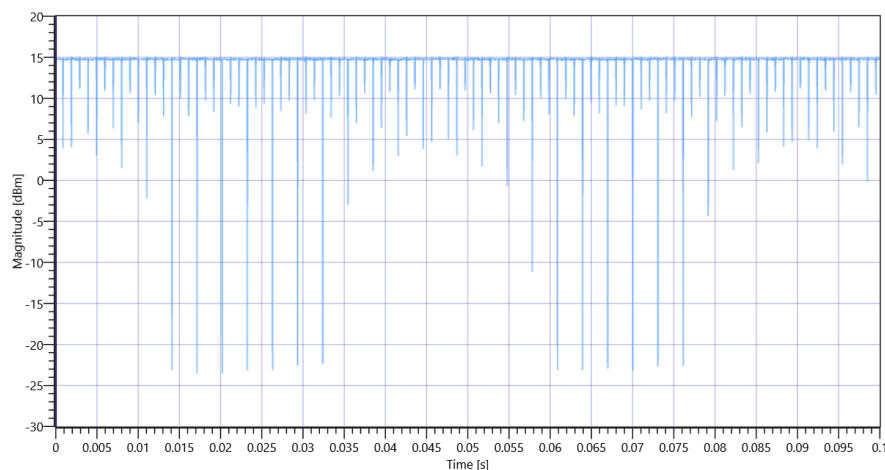
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.29	dBm	INFO
Ref. Frequency	---	---	5255.800	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:36					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

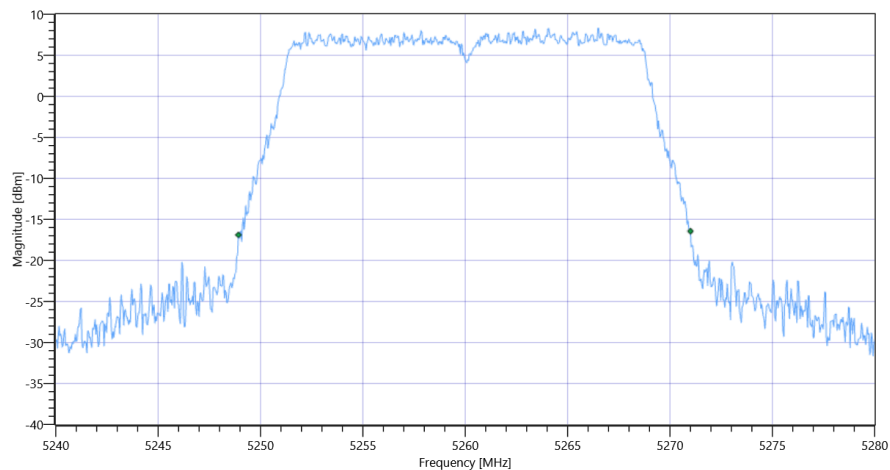


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A 5260 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	22.08	MHz	INFO
T1 26dB	---	---	5248.9200	MHz	INFO
T2 26dB	---	---	5271.0000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A_BW

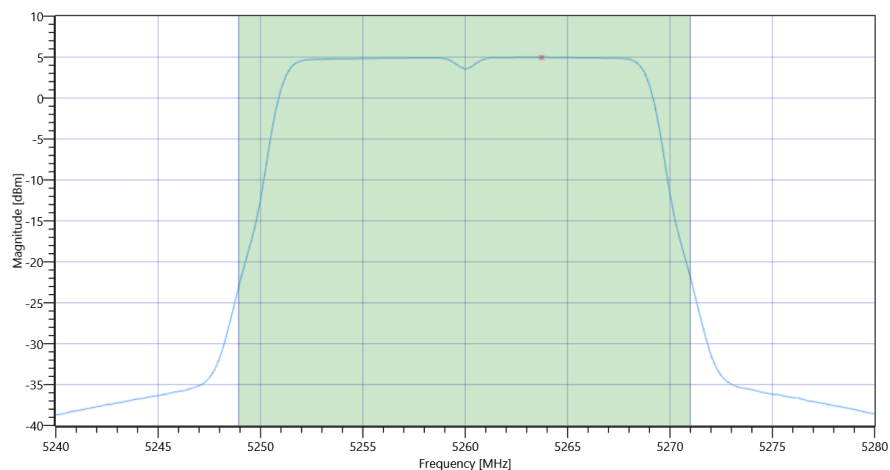
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	25.29 18.82 25
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	---	---	17.02	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	17.35	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.44	17.35	dBm	PASS



FCC 15.247 # 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	---	---	4.96	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	11	5.29	dBm/1MHz	PASS
General verdict			PASS		

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References

TC Start	14.07.2022 14:25:23
Ambit Temp [°C] Humidity [rel%]	27.5 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	True Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5280 MHz

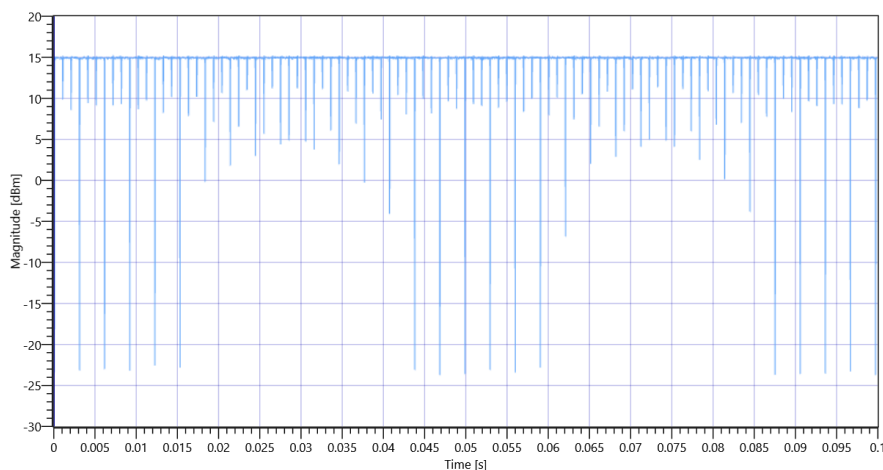
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.13	dBm	INFO
Ref. Frequency	---	---	5272.610	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:36					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

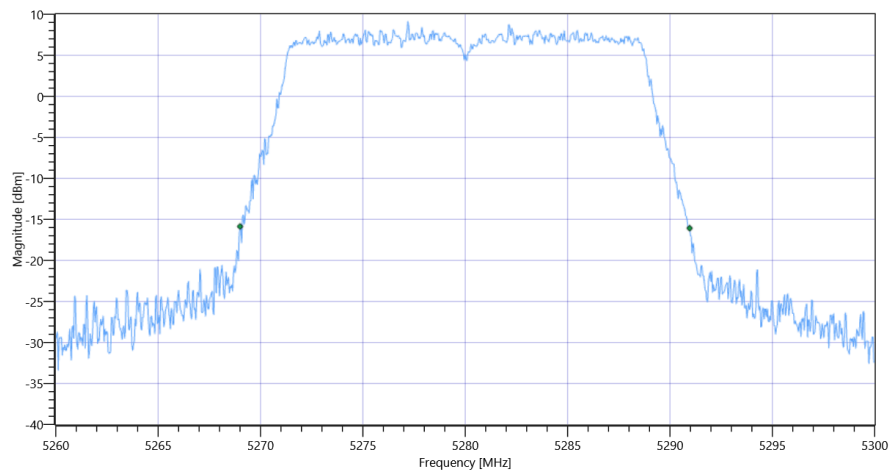


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A 5280 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.96	MHz	INFO
T1 26dB	---	---	5269.0000	MHz	INFO
T2 26dB	---	---	5290.9600	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A_BW

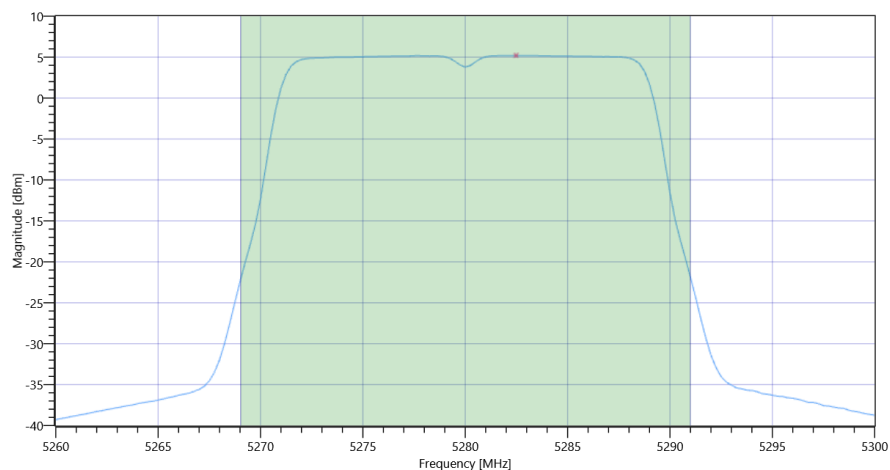
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	25.13 18.69 25
Start [MHz] Stop [MHz]	5260.000 5300.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	17.22	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	17.55	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.42	17.55	dBm	PASS



FCC 15.247 # 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	---	---	5.2	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	11	5.53	dBm/1MHz	PASS
General verdict			PASS		

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References

TC Start	14.07.2022 14:30:27
Ambit Temp [°C] Humidity [rel%]	27.5 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	True Freq [MHz] 5320
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5320 MHz

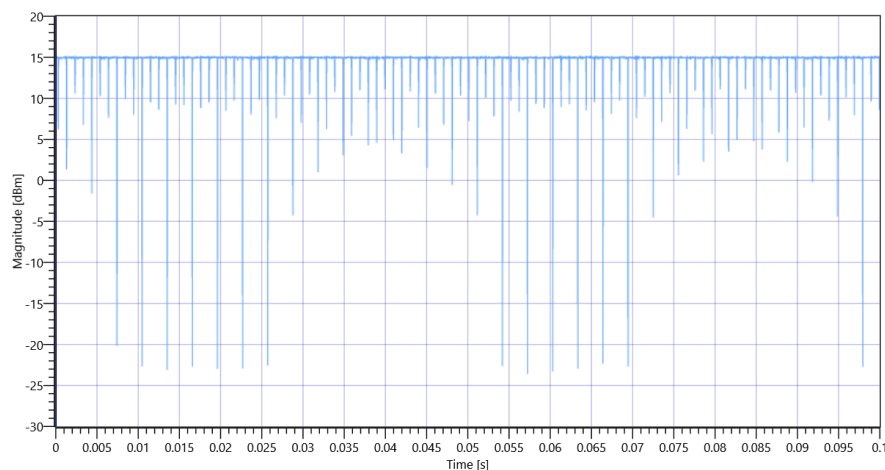
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.12	dBm	INFO
Ref. Frequency	---	---	5318.800	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:35					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

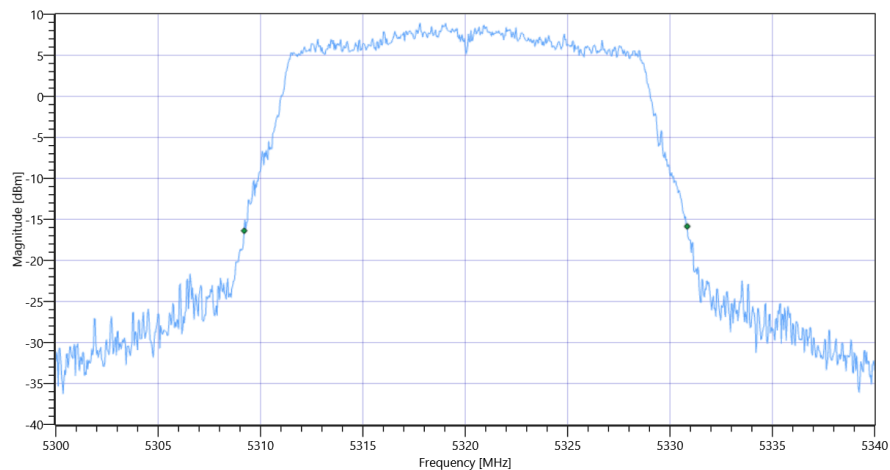


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A 5320 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.64	MHz	INFO
T1 26dB	---	---	5309.2000	MHz	INFO
T2 26dB	---	---	5330.8400	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A_BW

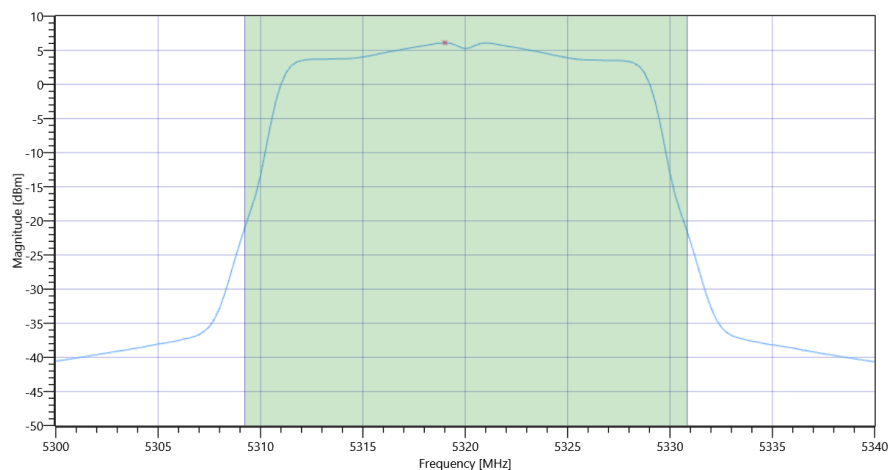
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	26.12 18.41 25
Start [MHz] Stop [MHz]	5300.000 5340.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	16.85	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	17.18	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.35	17.18	dBm	PASS



FCC 15.247 # 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	---	---	6.1	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	11	6.43	dBm/1MHz	PASS
General verdict			PASS		

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References

TC Start	14.07.2022 14:36:08
Ambit Temp [°C] Humidity [rel%]	27.5 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5500 MHz

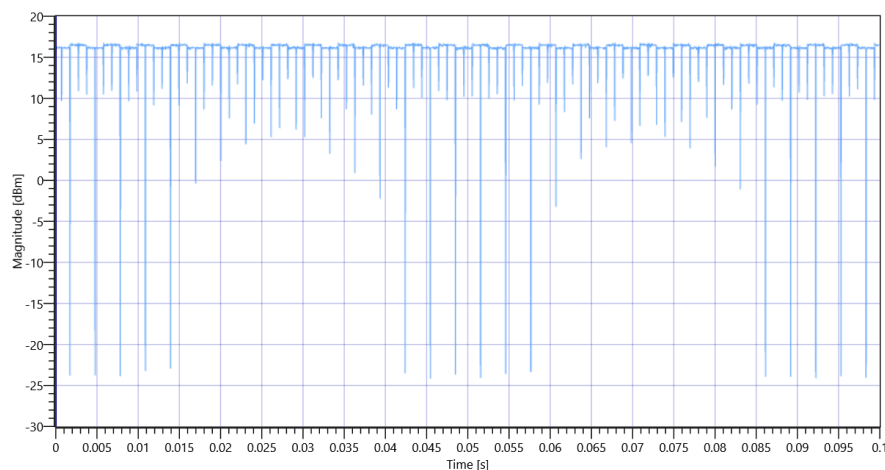
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.99	dBm	INFO
Ref. Frequency	---	---	5498.600	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:35					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

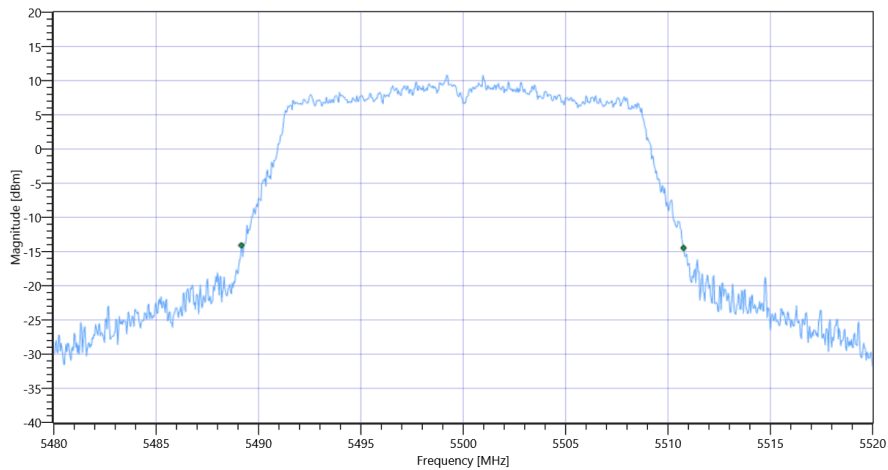


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C 5500 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.6	MHz	INFO
T1 26dB	---	---	5489.1600	MHz	INFO
T2 26dB	---	---	5510.7600	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C_BW

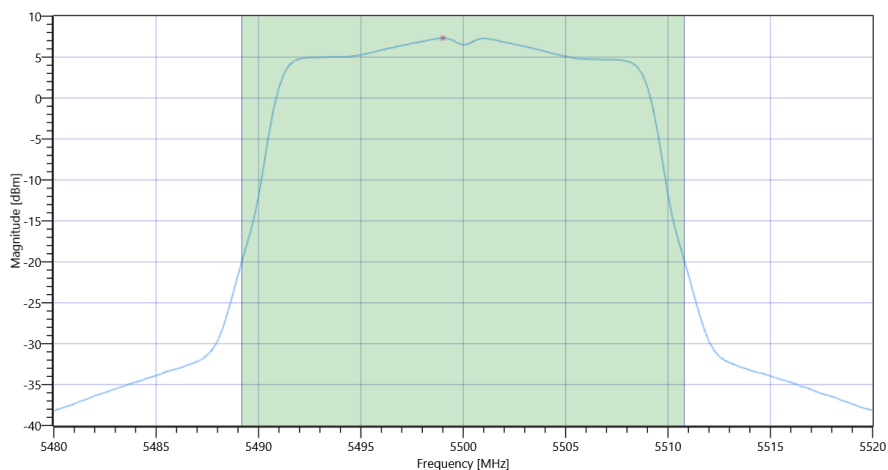
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	26.99 18.5 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	---	---	18.07	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	18.4	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.34	18.4	dBm	PASS



FCC 15.247 # 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	---	---	7.33	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	11	7.66	dBm/1MHz	PASS
General verdict			PASS		

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References

TC Start	14.07.2022 14:43:58
Ambit Temp [°C] Humidity [rel%]	27.4 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5600 MHz

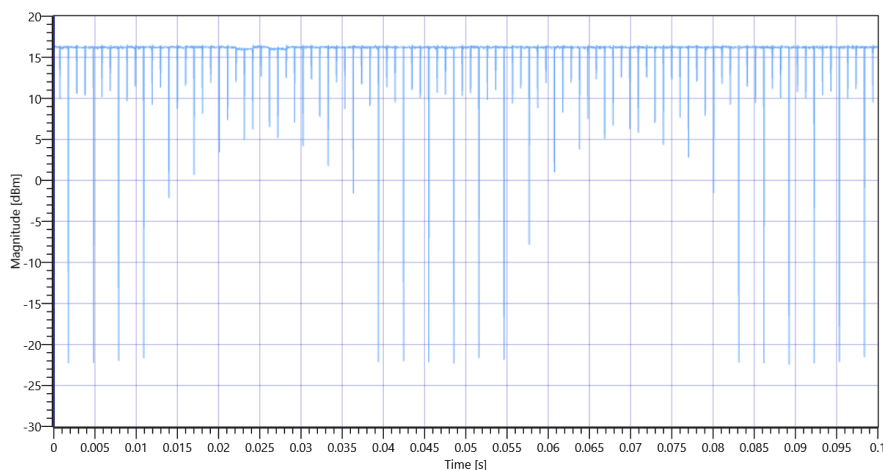
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.70	dBm	INFO
Ref. Frequency	---	---	5603.200	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:34					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

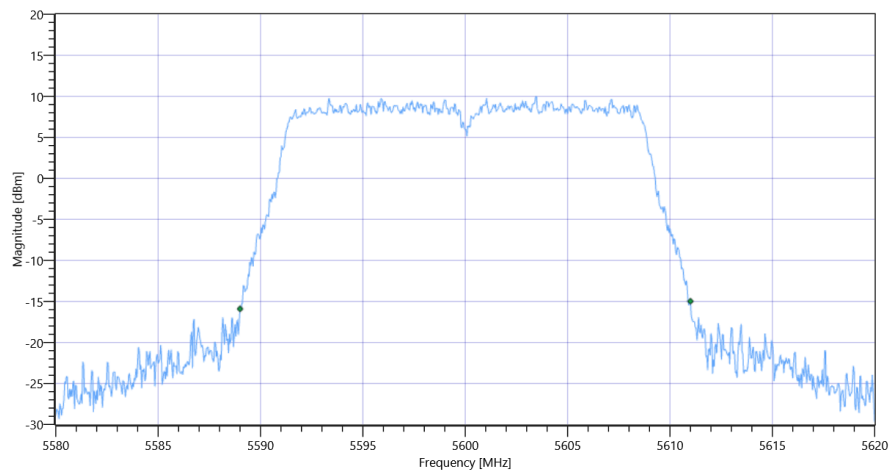


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C 5600 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	22	MHz	INFO
T1 26dB	---	---	5589.0000	MHz	INFO
T2 26dB	---	---	5611.0000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C_BW

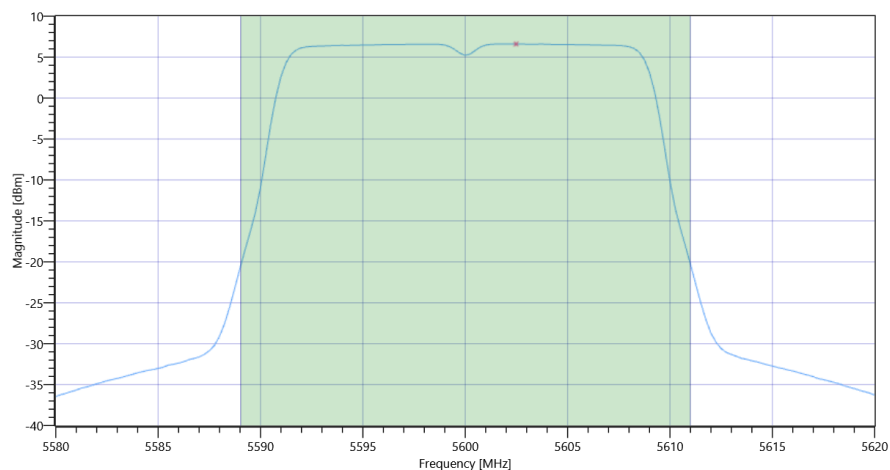
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	26.70 19.06 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	---	---	18.64	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	18.97	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.42	18.97	dBm	PASS



FCC 15.247 # 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	---	---	6.6	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	11	6.93	dBm/1MHz	PASS
General verdict			PASS		

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

Test References

TC Start	14.07.2022 14:50:02
Ambit Temp [°C] Humidity [rel%]	27.4 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5700 MHz

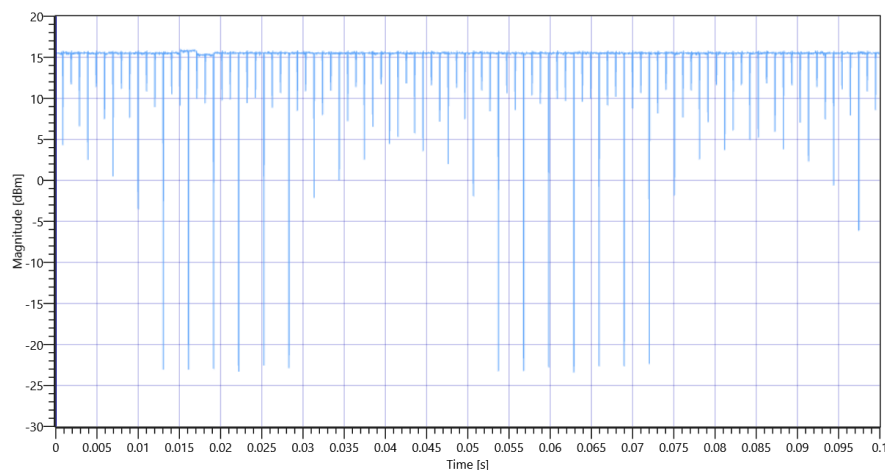
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.56	dBm	INFO
Ref. Frequency	---	---	5694.810	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:35					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

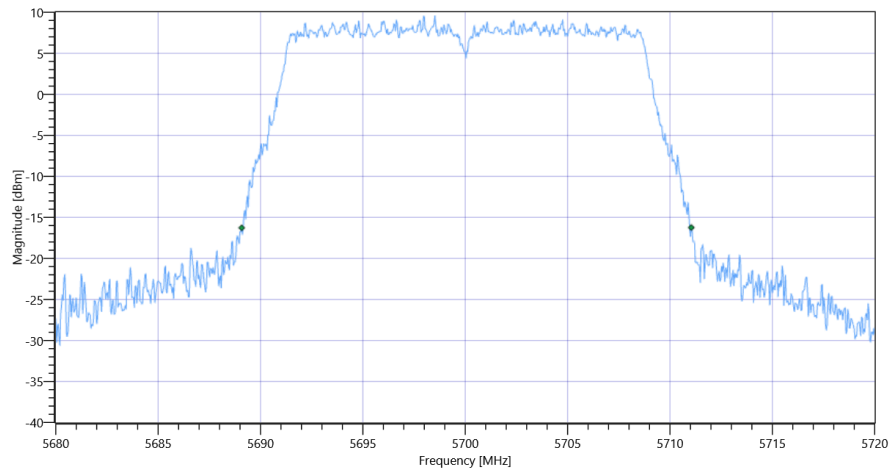


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C 5700 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.96	MHz	INFO
T1 26dB	---	---	5689.0800	MHz	INFO
T2 26dB	---	---	5711.0400	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C_BW

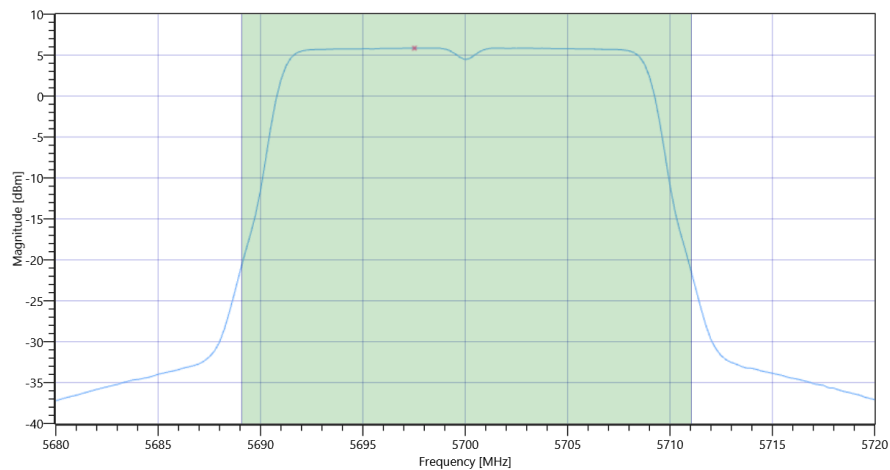
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	25.56 18.46 25
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	---	---	17.92	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	18.25	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.42	18.25	dBm	PASS



FCC 15.247 # 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	---	---	5.85	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	11	6.18	dBm/1MHz	PASS
General verdict			PASS		

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

Test References	
TC Start	14.07.2022 14:57:14
Ambit Temp [°C] Humidity [rel%]	27.5 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

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

Test at TX 5745 MHz

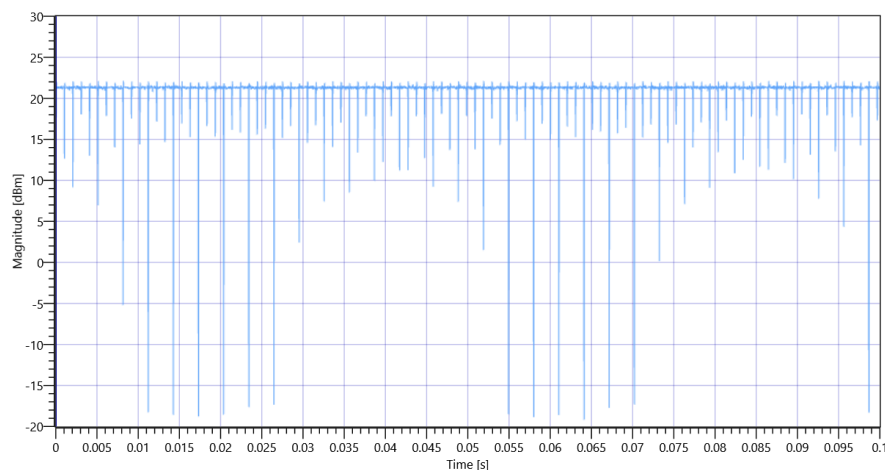
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	20.42	dBm	INFO
Ref. Frequency	---	---	5750.990	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:34					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

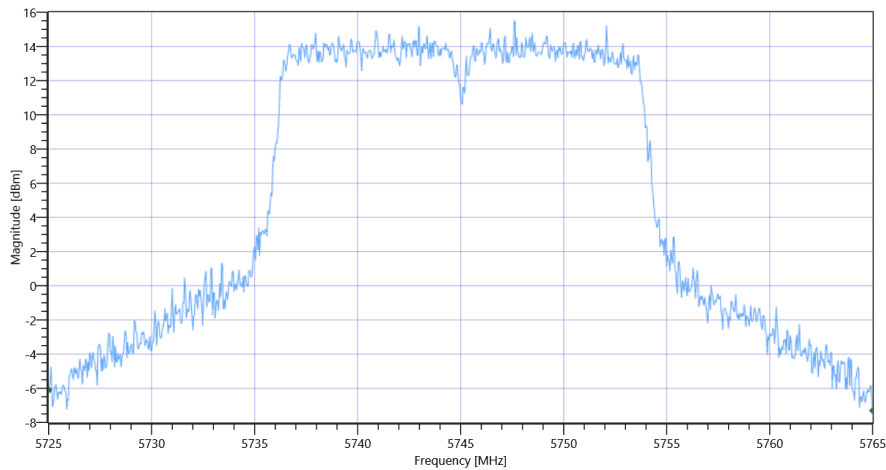


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 5745 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	40	MHz	INFO
T1 26dB	---	---	5725.0000	MHz	INFO
T2 26dB	---	---	5765.0000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3_BW

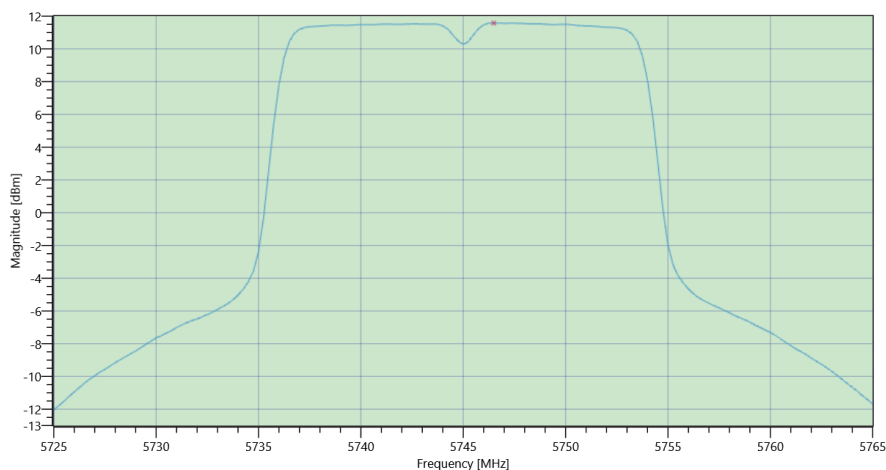
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	32.42 18.72 30
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	23.7	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	24.03	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.02	24.03	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 Max OP and PSD

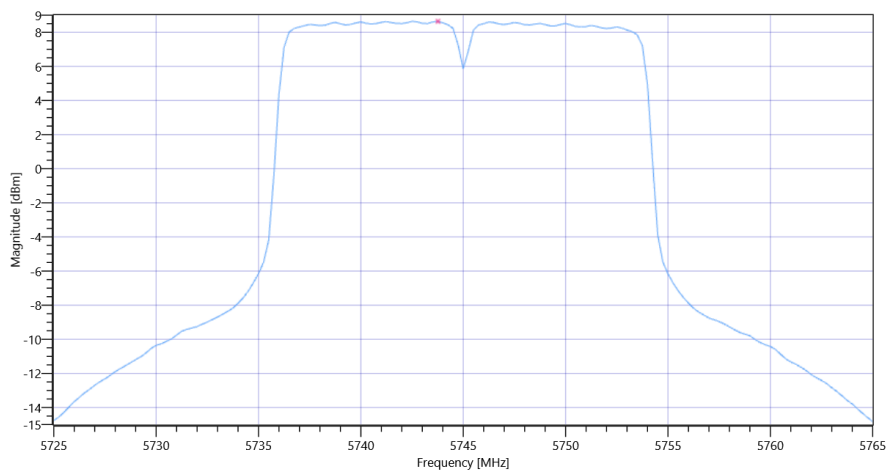
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	32.42 18.72 30
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	8.64	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	30	8.97	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

Test References

TC Start	14.07.2022 15:05:55
Ambit Temp [°C] Humidity [rel%]	27.5 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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-3
Add. Information	

EUT Common Settings WLAN5Gx

Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5785 MHz

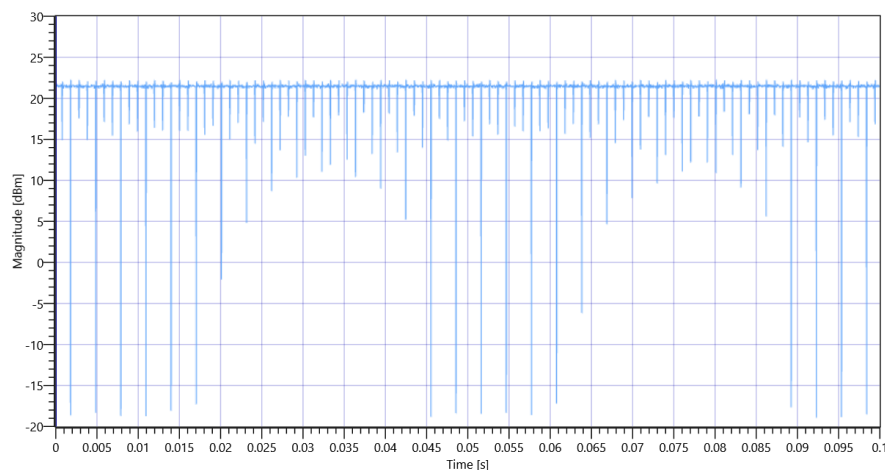
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	20.11	dBm	INFO
Ref. Frequency	---	---	5790.000	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:34					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

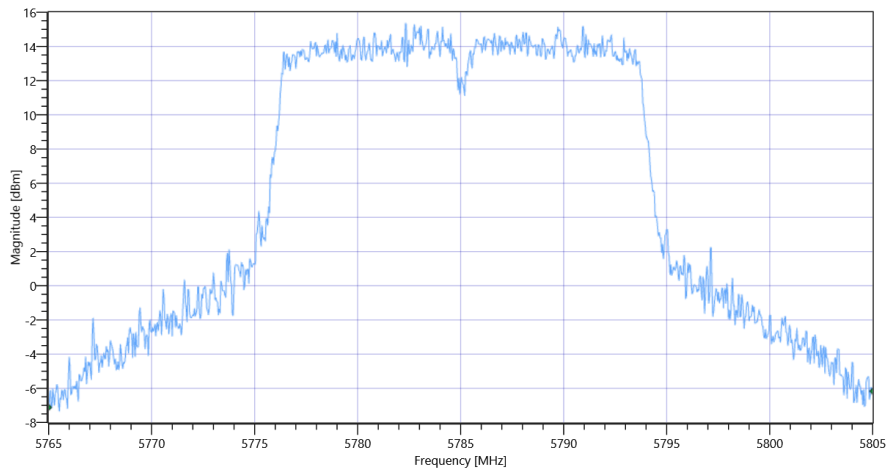


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 5785 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	40	MHz	INFO
T1 26dB	---	---	5765.0000	MHz	INFO
T2 26dB	---	---	5805.0000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3_BW

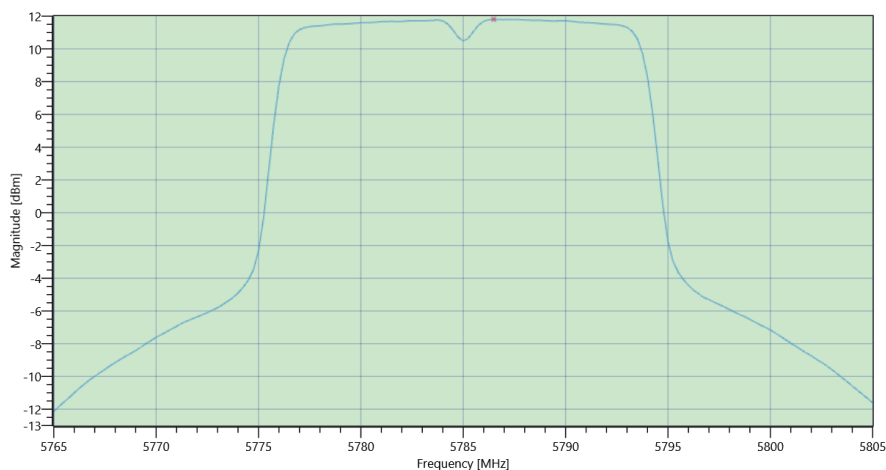
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	32.11 18.76 30
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	23.87	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	24.2	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.02	24.2	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 Max OP and PSD

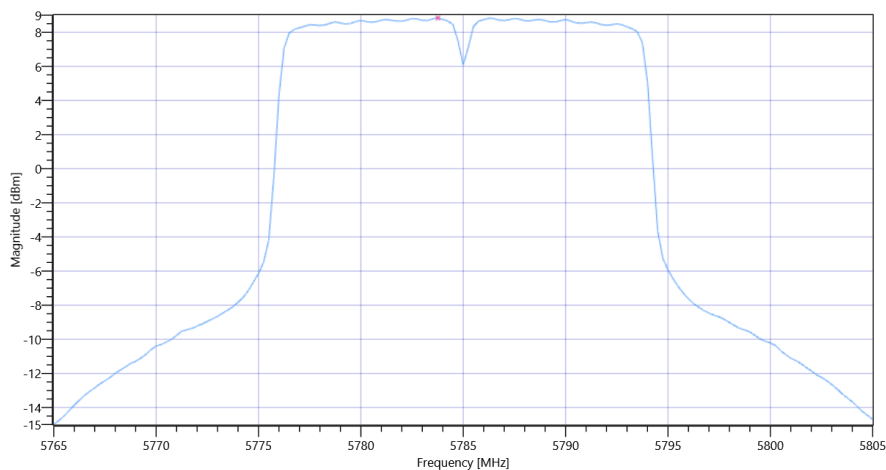
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	32.11 18.76 30
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	8.84	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	30	9.17	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

Test References

TC Start	14.07.2022 15:14:44
Ambit Temp [°C] Humidity [rel%]	27.6 42
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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-3
Add. Information	

EUT Common Settings WLAN5Gx

Number of Antenna Ports	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5825 MHz

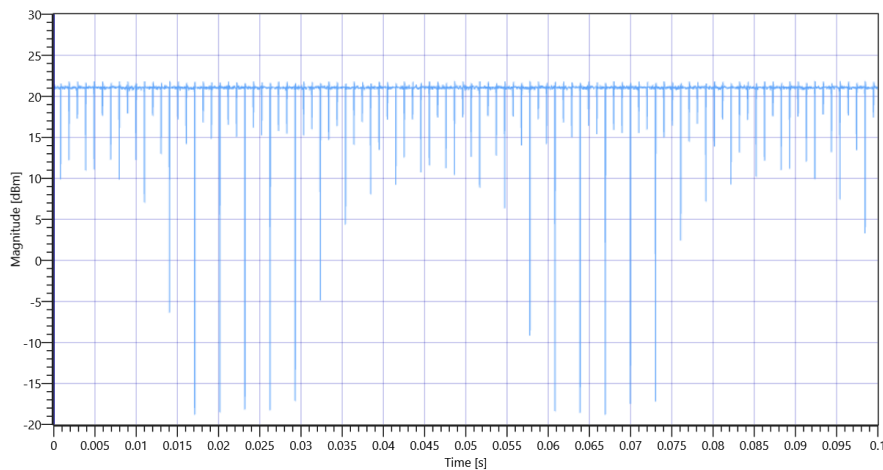
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	19.77	dBm	INFO
Ref. Frequency	---	---	5822.200	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:35					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

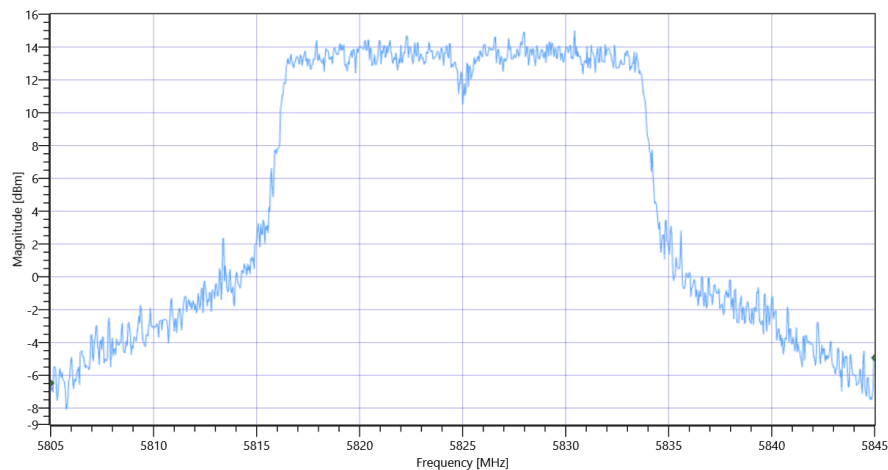


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 5825 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	40	MHz	INFO
T1 26dB	---	---	5805.0000	MHz	INFO
T2 26dB	---	---	5845.0000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3_BW

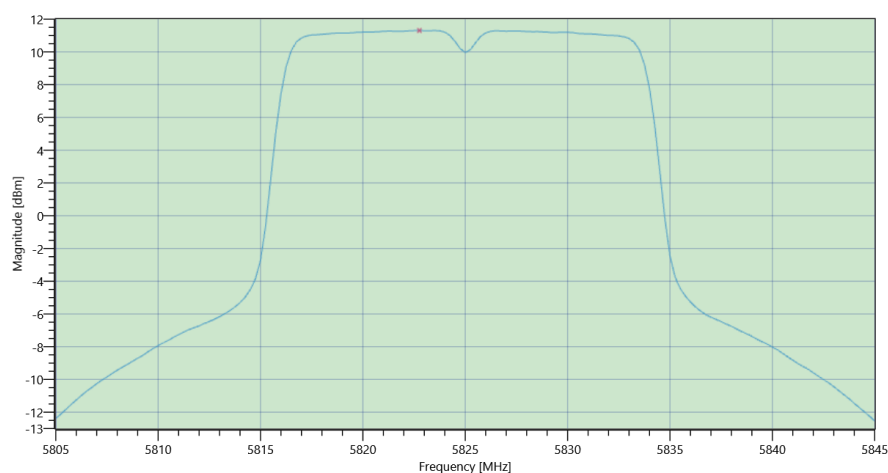
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	31.77 18.74 30
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	23.41	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	23.74	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.02	23.74	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 Max OP and PSD

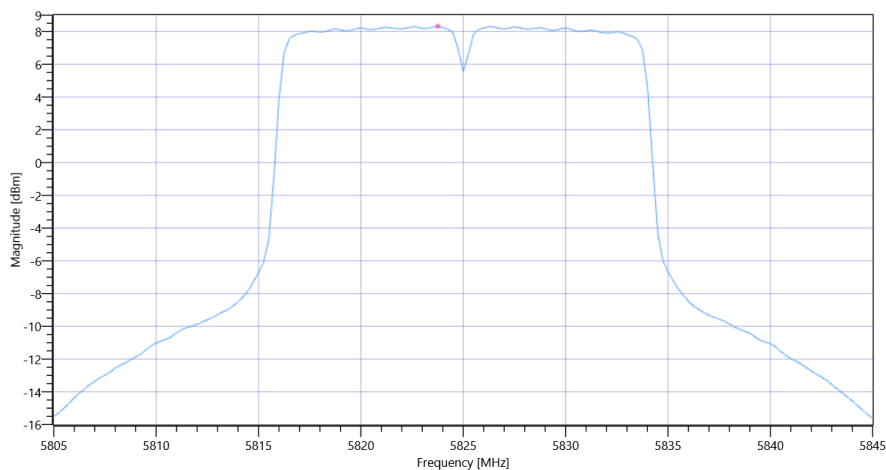
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	31.77 18.74 30
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	8.33	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	30	8.66	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References

TC Start	14.07.2022 15:51:16
Ambit Temp [°C] Humidity [rel%]	28.4 41
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5260 MHz

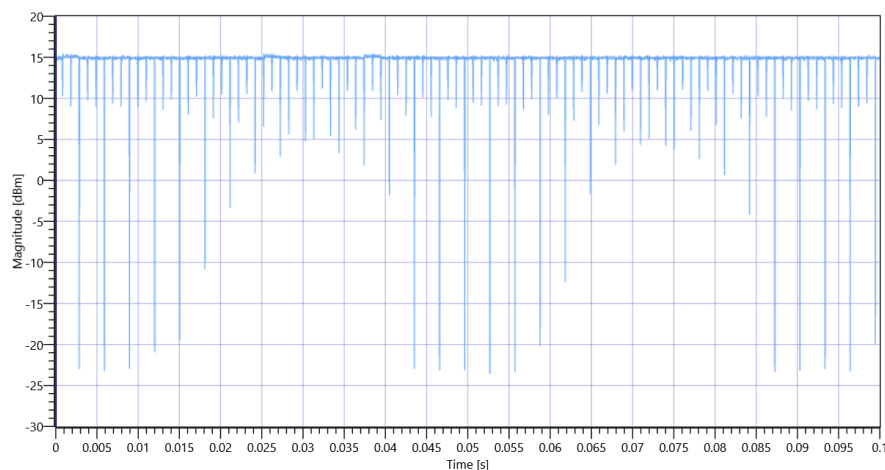
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	13.95	dBm	INFO
Ref. Frequency	---	---	5255.400	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:35					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO

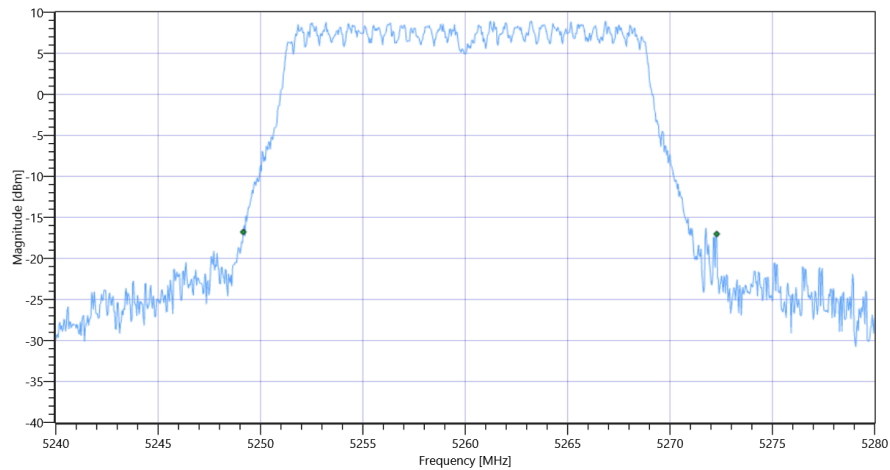


FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A 5260 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	23.12	MHz	INFO
T1 26dB	---	---	5249.1600	MHz	INFO
T2 26dB	---	---	5272.2800	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A_BW

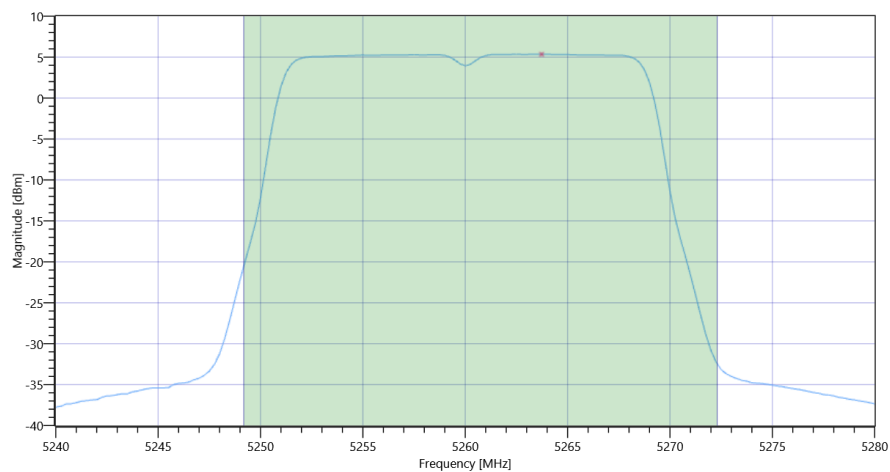
Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	25.95 18.82 25
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	---	---	17.38	dBm	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	17.71	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.64	17.71	dBm	PASS



FCC 15.247 # 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	---	---	5.35	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.33	dB	INFO
Power Spectral Density DC corrected	---	11	5.68	dBm/1MHz	PASS
General verdict			PASS		

FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

Test References

TC Start	14.07.2022 15:56:56
Ambit Temp [°C] Humidity [rel%]	28.2 41
System Version	3.2.0.2
Test Specification	FCC 15.247 -
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	2
User Interaction	No
Device Class UNII_1	Client

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 mode
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	True Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	1.4
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment

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

Test at TX 5280 MHz

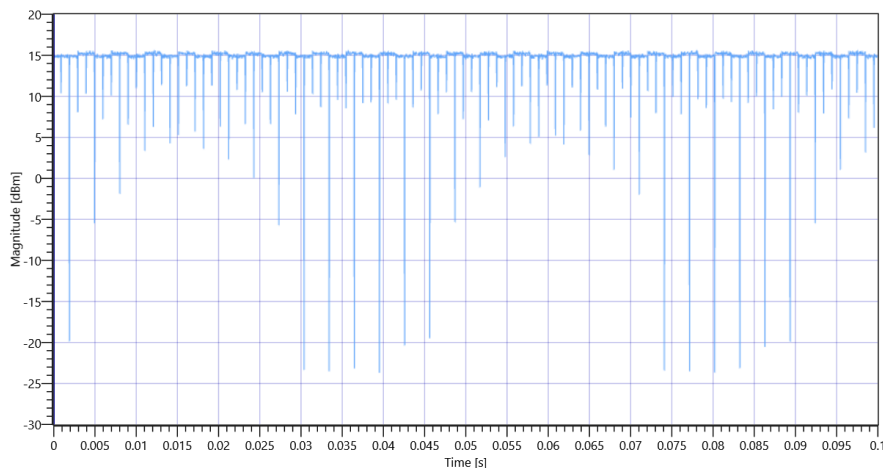
RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	14.00	dBm	INFO
Ref. Frequency	---	---	5285.390	MHz	INFO

Evaluation max. Duty Cycle

Duty Cycle evaluation

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Summary					
Number of detected Bursts:34					
Duty Cycle (Burst Ratio) max	---	---	0.975	---	INFO
Duty Cycle max	---	---	0.11	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.927	---	INFO
Duty Cycle min	---	---	0.329	dB	INFO
Max TX Burst Length	---	---	2.975	ms	INFO
Min Gap Length	---	---	0.075	ms	INFO
Max Gap Length	---	---	0.075	ms	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A 5280 MHz - DutyCycle

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	22.6	MHz	INFO
T1 26dB	---	---	5269.2800	MHz	INFO
T2 26dB	---	---	5291.8800	MHz	INFO