Measurement Results

1-0397/20-02-14_log1_conducted

Test logging

This addendum is electronically signed and valid without handwritten signature.
For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Document authorized:

cn=David Lang, o=CTC advanced GmbH, ou=LNG-161129, email=david.lang@ctcadvanced.com, c=DE
2021.03.19 12:47:33 +01'00'

David Lang
Lab Manager
Radio Communications & EMC

Table of Content

EUT Summary

IUT DEFINITION & Common settings	
Manufacturer	Digi International Inc.
Type	ConnectCore 8M Nano SoM
Serial No. | Setup No.	8M DVK 054 (55002060-01 AS47102.0009) | 1
SW Version | HW Version	82004426 | 55002070-xx
Comment 1 | 2	|
Tlow | Tmid | Thigh [°C]	-40 | 22 | 85
Vlow | Vmid | Vhigh [V] @Imax [A]	4.5 | 5 | 5.5 @1
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	1.6

IUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No

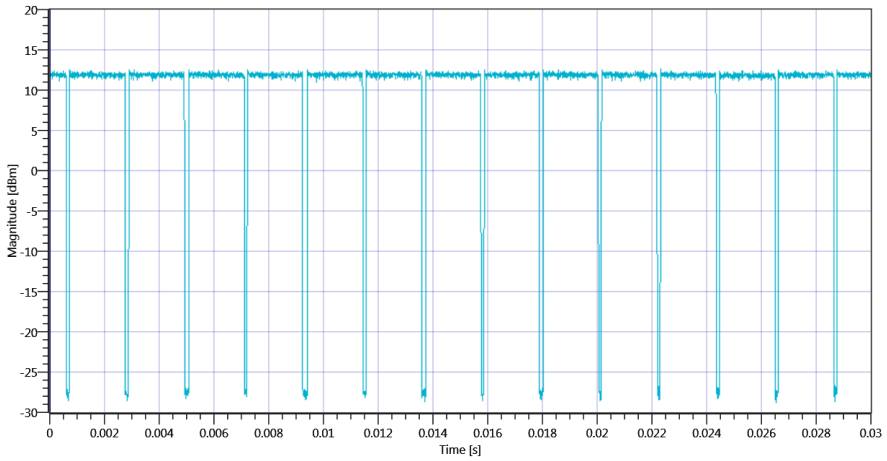
1. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	06.11.2020 08:40:01
Ambit Temp [°C] | Humidity [rel%]	23.6 | 28
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

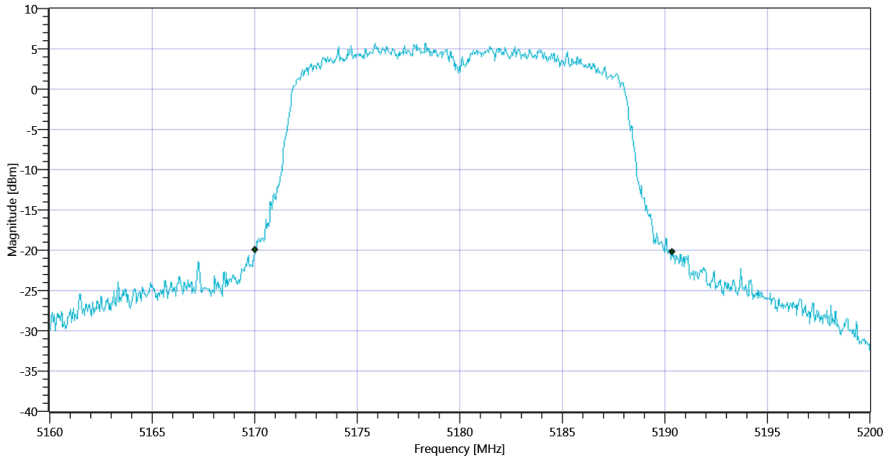
Test at TX 5180 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.918	---	INFO
Duty Cycle min	---	---	0.372	dB	INFO
Max TX Burst Length	---	---	2.018	ms	INFO
Min Gap Length	---	---	0.113	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5180 MHz - DutyCycle_06112020_084019.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.36	MHz	INFO
T1 26dB	---	---	5170.0000	MHz	INFO
T2 26dB	---	---	5190.3600	MHz	INFO

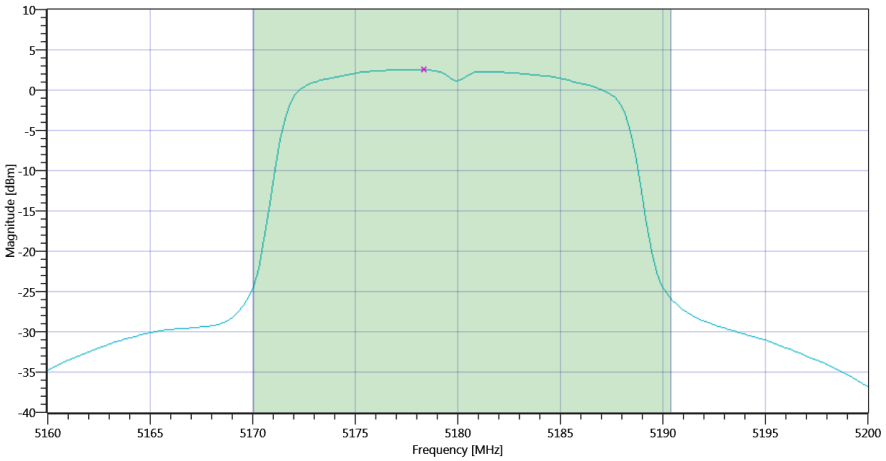


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_06112020_084032.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.35 | 18.86 | 20
Start [MHz] | Stop [MHz]	5160.000 | 5200.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	13.56	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.93	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.09	13.93	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_06112020_084057.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	2.53	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	11	2.9	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:40:59 / RT: 57 s	PASS

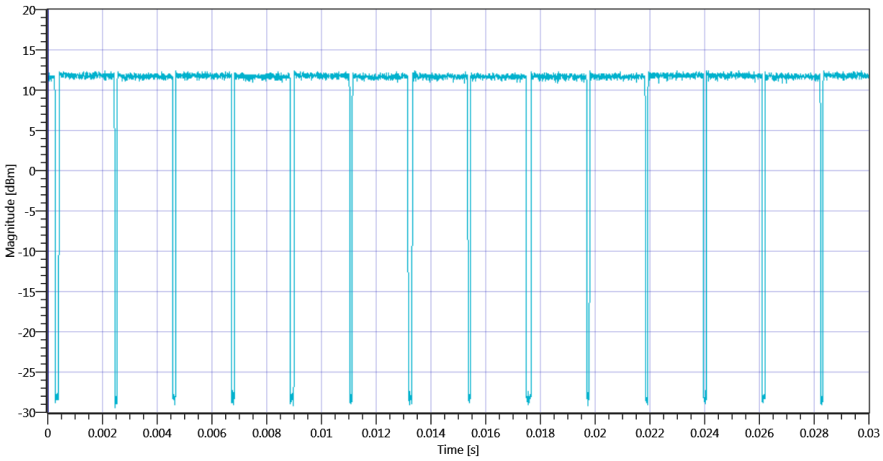
2. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	06.11.2020 08:45:31
Ambit Temp [°C] | Humidity [rel%]	23.7 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	True | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

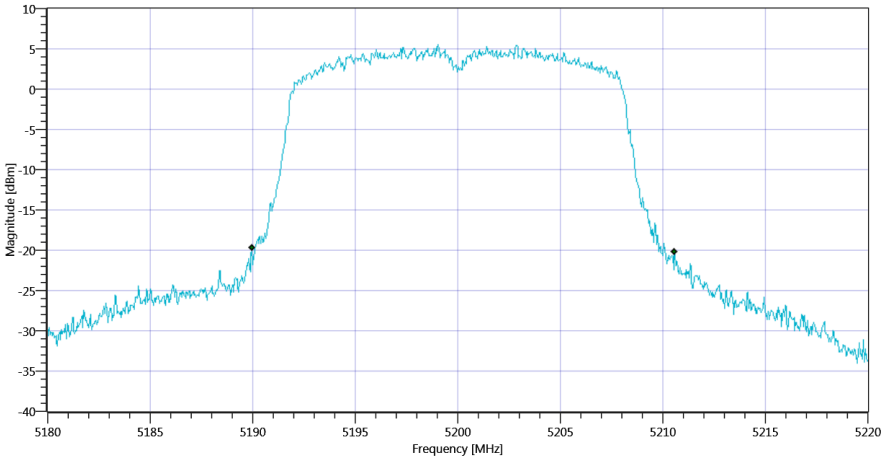
Test at TX 5200 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5200 MHz - DutyCycle_06112020_084548.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.6	MHz	INFO
T1 26dB	---	---	5189.9600	MHz	INFO
T2 26dB	---	---	5210.5600	MHz	INFO

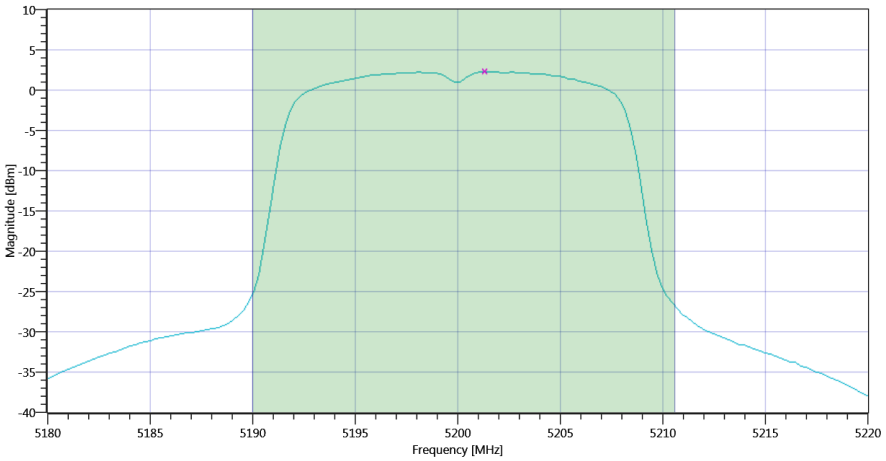


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_06112020_084558.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.35 | 19.04 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.36	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.75	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.14	13.75	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_06112020_084622.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.27	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	2.66	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:46:24 / RT: 52 s	PASS

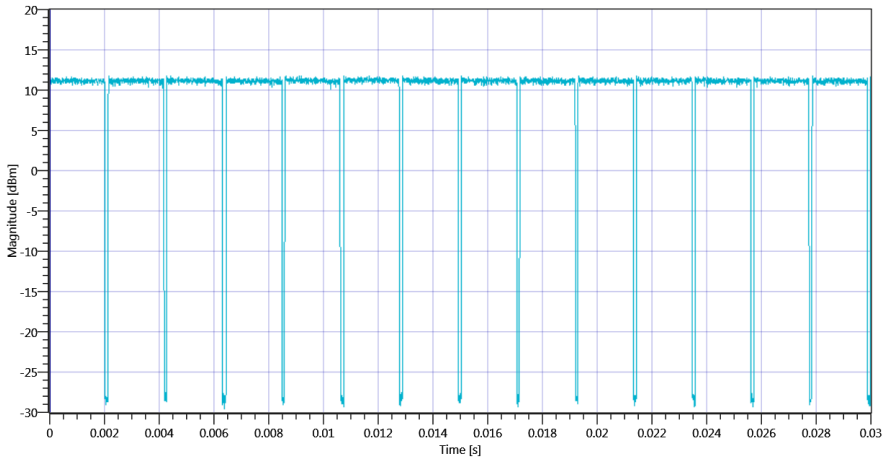
3. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	06.11.2020 08:48:58
Ambit Temp [°C] | Humidity [rel%]	23.8 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	True | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

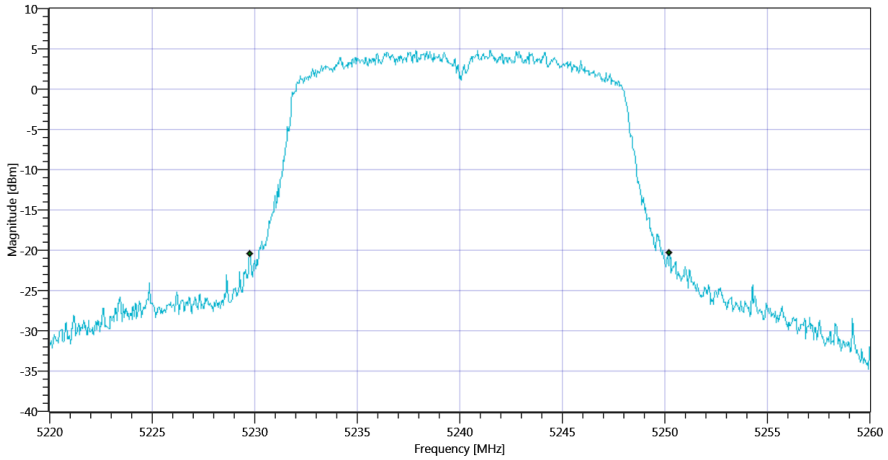
Test at TX 5240 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.931	---	INFO
Duty Cycle min	---	---	0.311	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.15	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5240 MHz - DutyCycle_06112020_084915.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.48	MHz	INFO
T1 26dB	---	---	5229.7600	MHz	INFO
T2 26dB	---	---	5250.2400	MHz	INFO

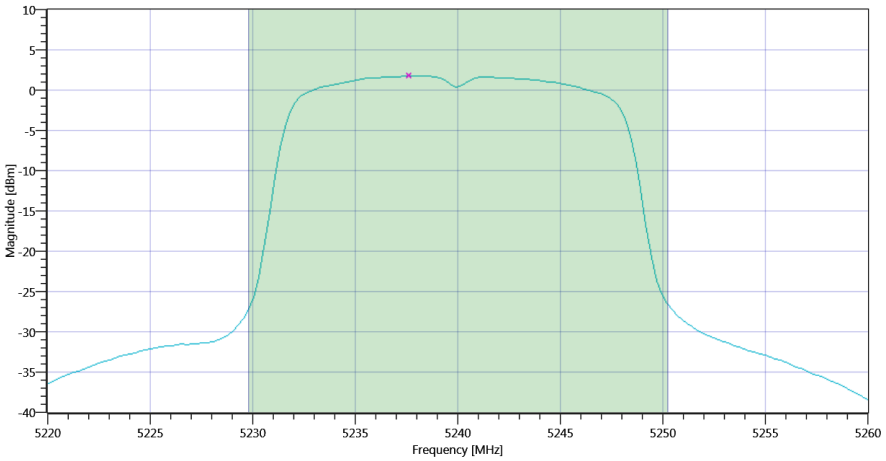


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_06112020_084924.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.92 | 18.96 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	12.82	dBm	INFO
Duty Cycle Correction	---	---	0.31	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.13	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.11	13.13	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_06112020_084948.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	1.75	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.31	dB	INFO
Power Spectral Density DC corrected	---	11	2.06	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:49:50 / RT: 52 s	PASS

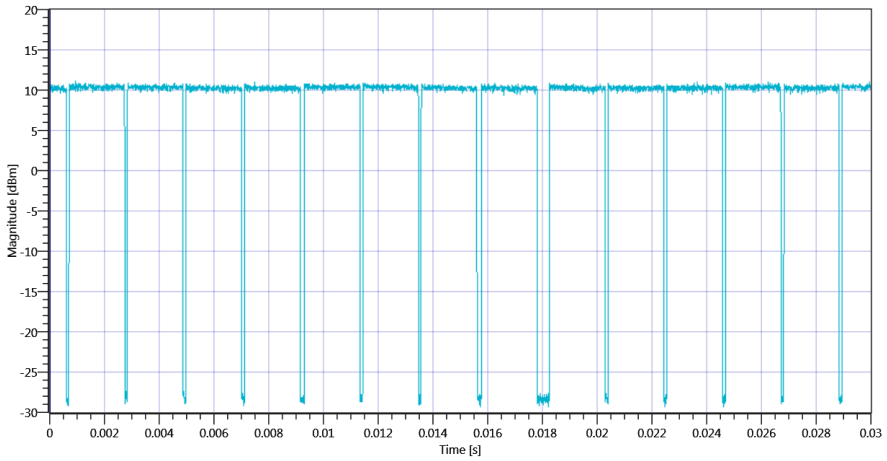
4. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	06.11.2020 08:52:16
Ambit Temp [°C] | Humidity [rel%]	23.9 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

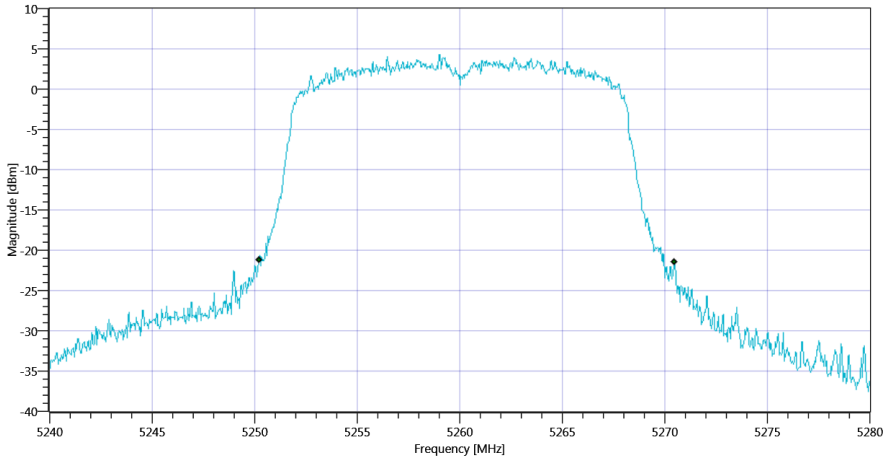
Test at TX 5260 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.816	---	INFO
Duty Cycle min	---	---	0.883	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.457	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5260 MHz - DutyCycle_06112020_085234.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.28	MHz	INFO
T1 26dB	---	---	5250.2000	MHz	INFO
T2 26dB	---	---	5270.4800	MHz	INFO

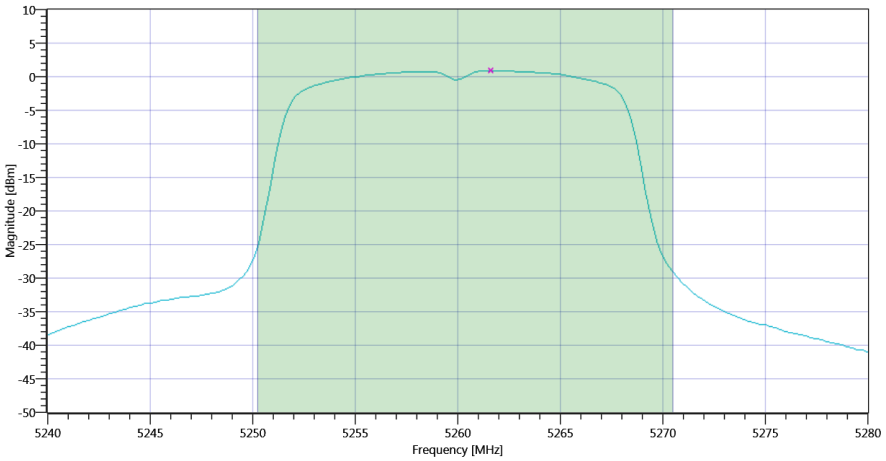


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_06112020_085242.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.31 | 18.88 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.92	dBm	INFO
Duty Cycle Correction	---	---	0.88	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.8	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.07	12.8	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_06112020_085306.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.84	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.88	dB	INFO
Power Spectral Density DC corrected	---	11	1.72	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:53:08 / RT: 51 s	PASS

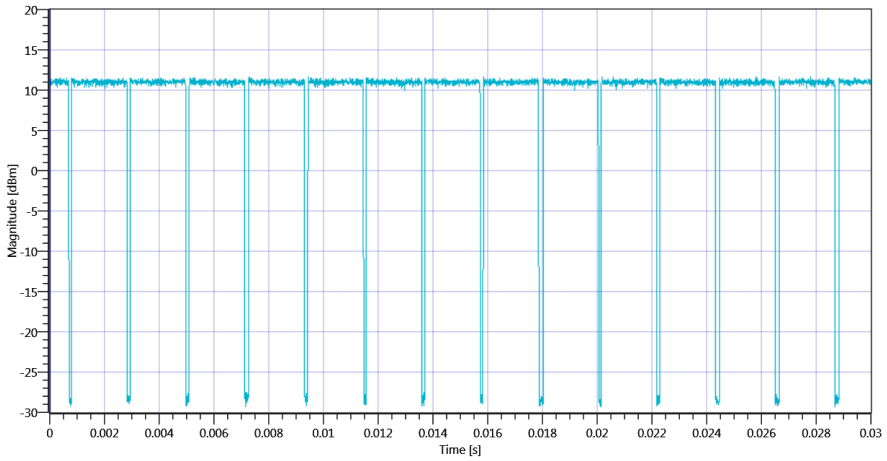
5. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	06.11.2020 08:55:34
Ambit Temp [°C] | Humidity [rel%]	24.0 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	True | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

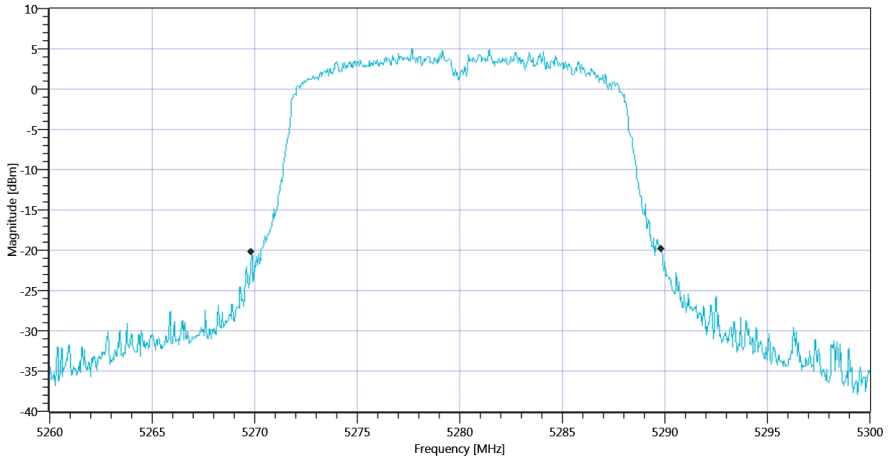
Test at TX 5280 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.921	---	INFO
Duty Cycle min	---	---	0.357	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.172	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5280 MHz - DutyCycle_06112020_085551.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20	MHz	INFO
T1 26dB	---	---	5269.8400	MHz	INFO
T2 26dB	---	---	5289.8400	MHz	INFO

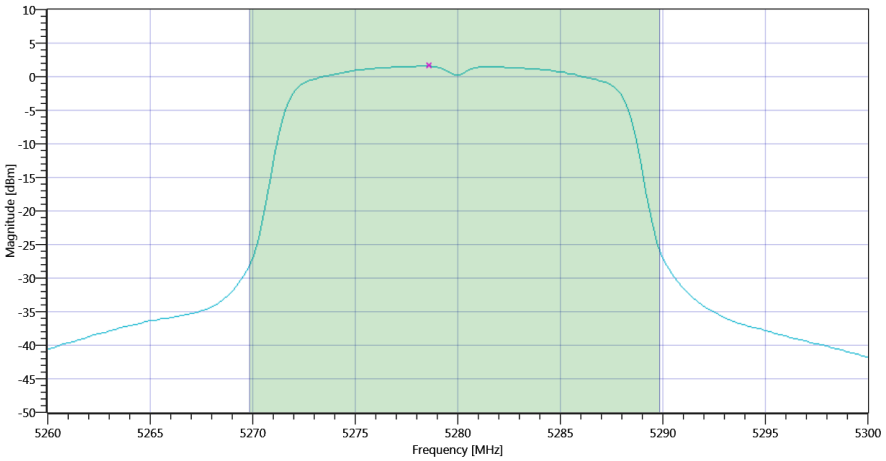


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_06112020_085600.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.59 | 18.75 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	12.61	dBm	INFO
Duty Cycle Correction	---	---	0.36	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.97	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.01	12.97	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_06112020_085624.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	1.56	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.36	dB	INFO
Power Spectral Density DC corrected	---	11	1.92	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:56:26 / RT: 52 s	PASS

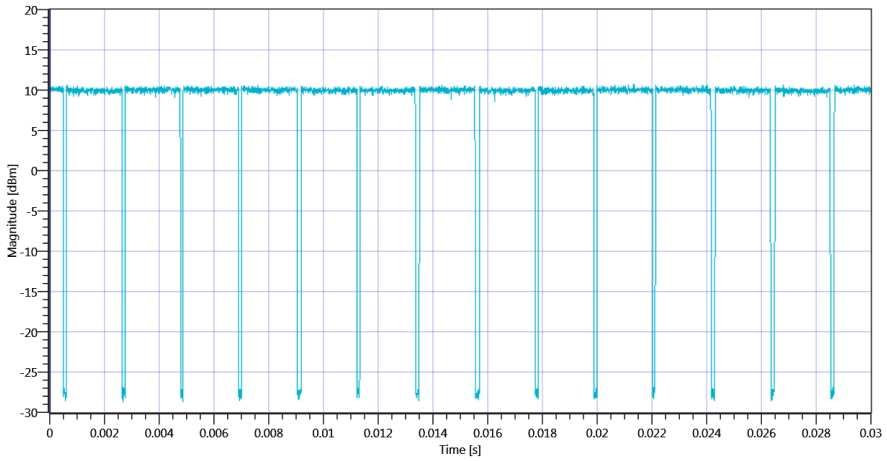
6. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	06.11.2020 08:58:55
Ambit Temp [°C] | Humidity [rel%]	24.1 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	True | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

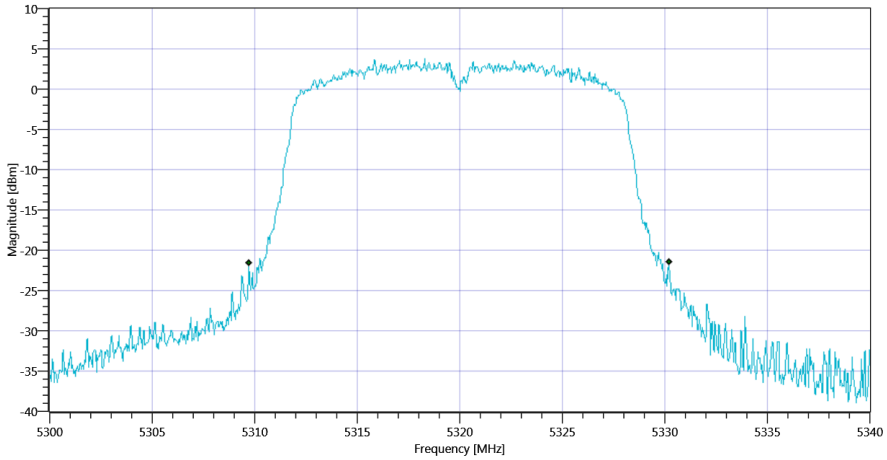
Test at TX 5320 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.912	---	INFO
Duty Cycle min	---	---	0.4	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.195	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5320 MHz - DutyCycle_06112020_085913.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.48	MHz	INFO
T1 26dB	---	---	5309.7200	MHz	INFO
T2 26dB	---	---	5330.2000	MHz	INFO

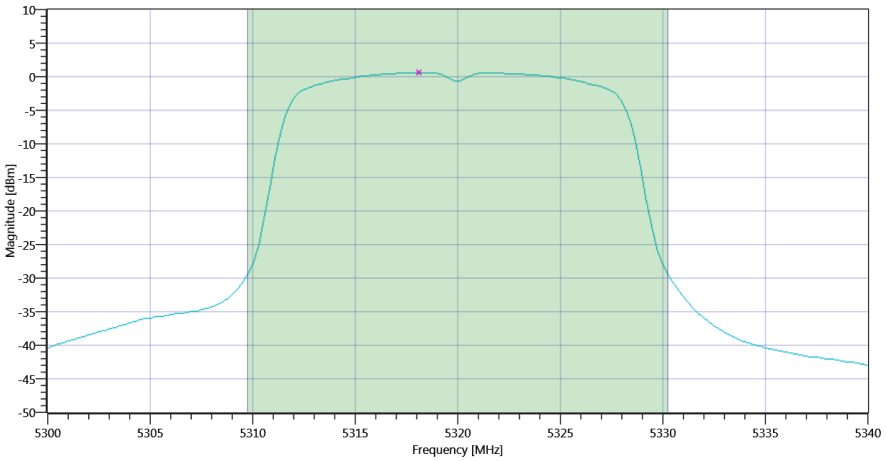


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_06112020_085922.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.77 | 18.67 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.66	dBm	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.06	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.11	12.06	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_06112020_085946.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.57	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.4	dB	INFO
Power Spectral Density DC corrected	---	11	0.97	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:59:48 / RT: 52 s	PASS

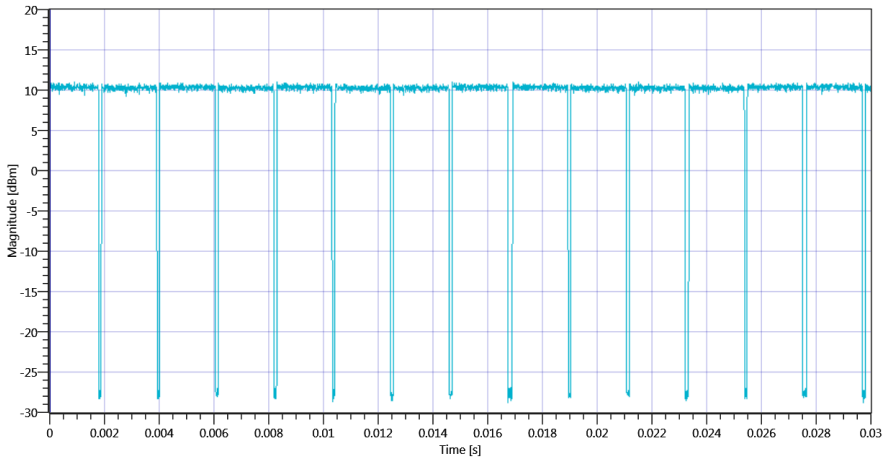
7. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	06.11.2020 09:03:14
Ambit Temp [°C] | Humidity [rel%]	24.1 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

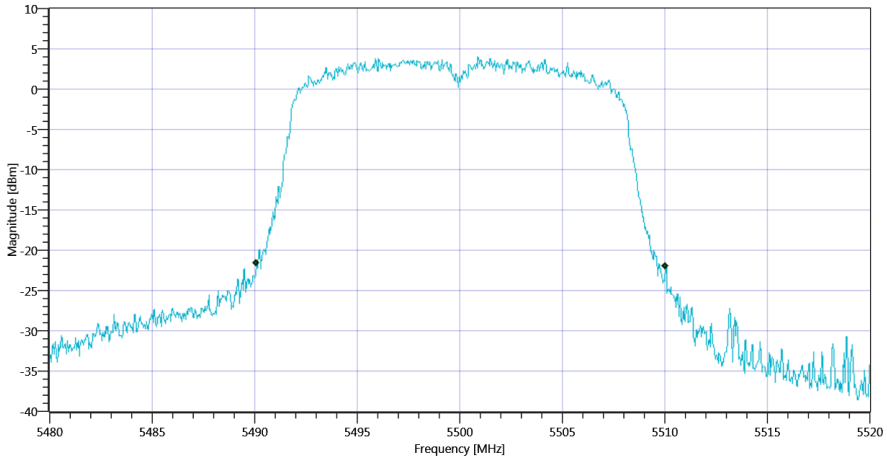
Test at TX 5500 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5500 MHz - DutyCycle_06112020_090331.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	19.96	MHz	INFO
T1 26dB	---	---	5490.0800	MHz	INFO
T2 26dB	---	---	5510.0400	MHz	INFO

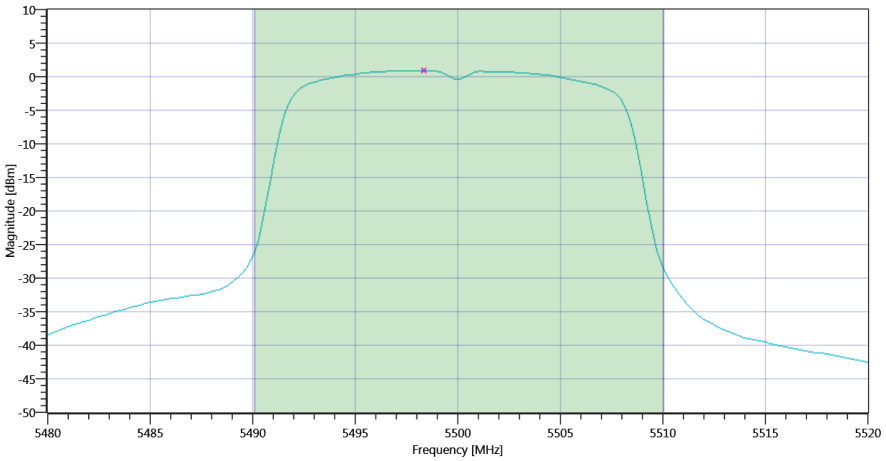


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_06112020_090340.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.20 | 18.98 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.95	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.34	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24	12.34	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_06112020_090404.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.93	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	1.32	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:04:06 / RT: 51 s	PASS

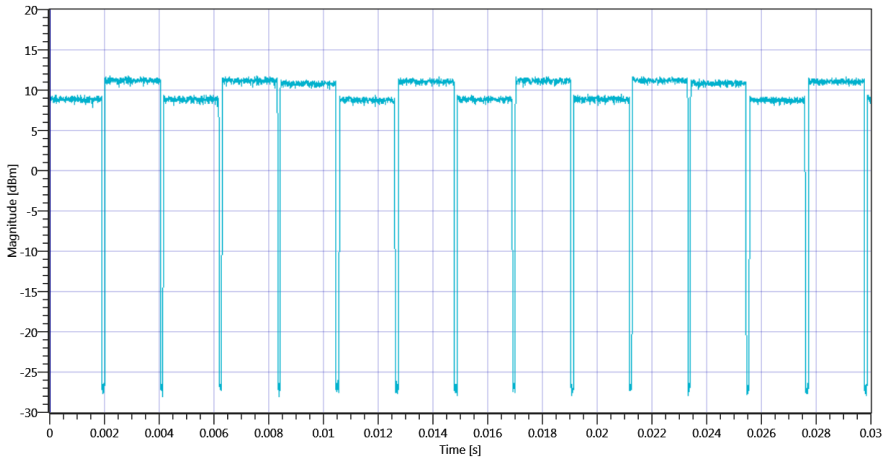
8. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	06.11.2020 09:06:37
Ambit Temp [°C] | Humidity [rel%]	24.2 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	True | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

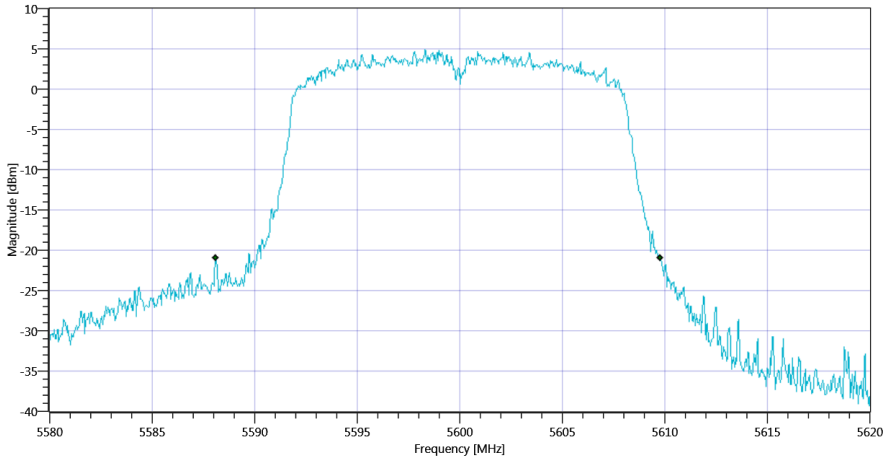
Test at TX 5600 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.934	---	INFO
Duty Cycle min	---	---	0.297	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.143	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5600 MHz - DutyCycle_06112020_090655.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	21.72	MHz	INFO
T1 26dB	---	---	5588.0800	MHz	INFO
T2 26dB	---	---	5609.8000	MHz	INFO

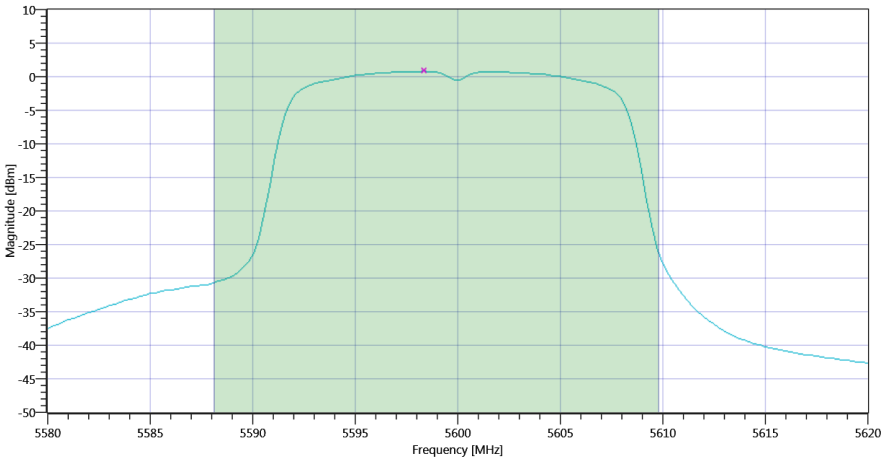


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_06112020_090703.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.26 | 19.09 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.88	dBm	INFO
Duty Cycle Correction	---	---	0.3	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.18	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.37	12.18	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_06112020_090727.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.79	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.3	dB	INFO
Power Spectral Density DC corrected	---	11	1.09	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:07:29 / RT: 52 s	PASS

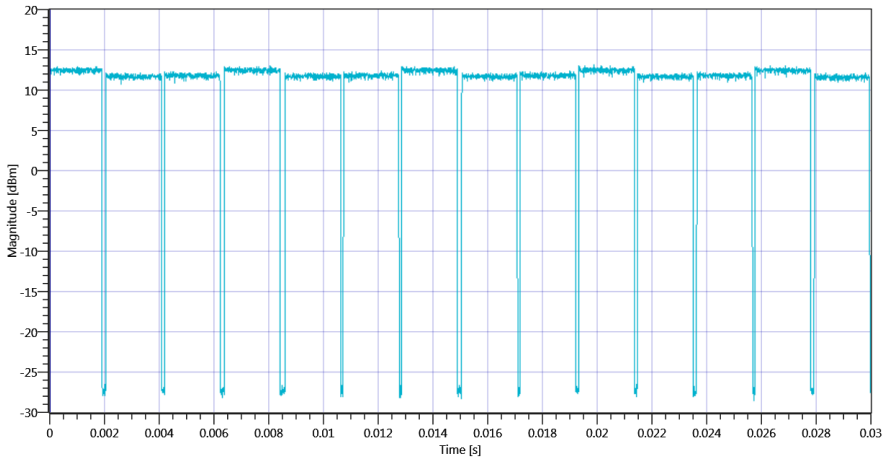
9. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	06.11.2020 09:09:58
Ambit Temp [°C] | Humidity [rel%]	24.3 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	True | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

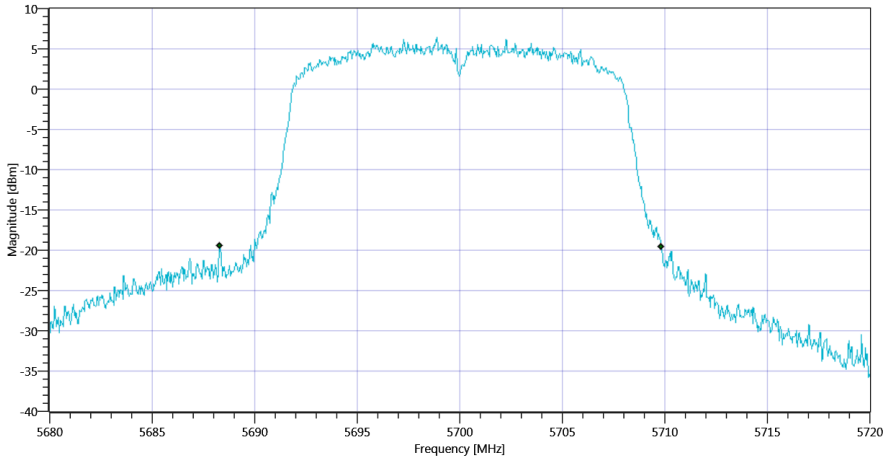
Test at TX 5700 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:12					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.187	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5700 MHz - DutyCycle_06112020_091015.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	21.56	MHz	INFO
T1 26dB	---	---	5688.2800	MHz	INFO
T2 26dB	---	---	5709.8400	MHz	INFO

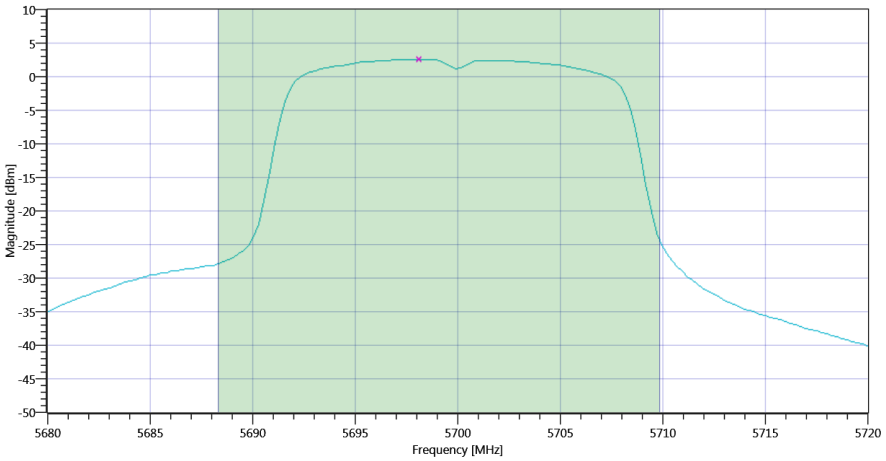


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_06112020_091023.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	23.01 | 19.15 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.62	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	14.01	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.34	14.01	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_06112020_091047.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.57	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	2.96	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:10:49 / RT: 51 s	PASS

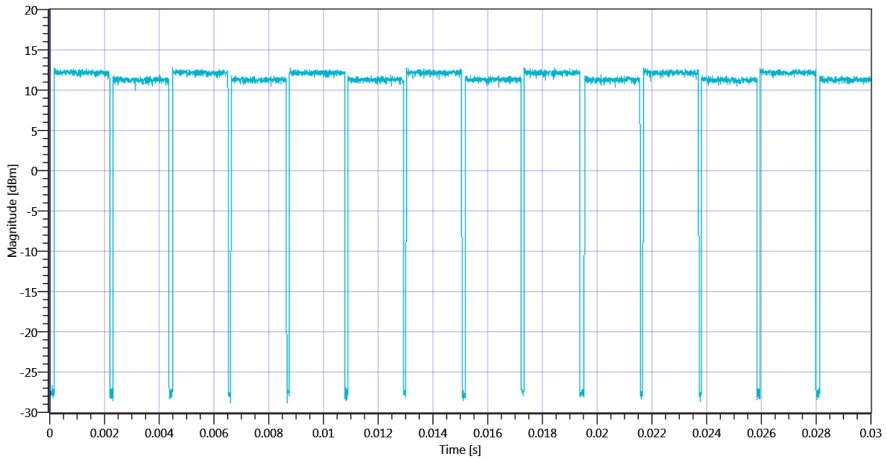
10. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	06.11.2020 09:13:23
Ambit Temp [°C] | Humidity [rel%]	24.3 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

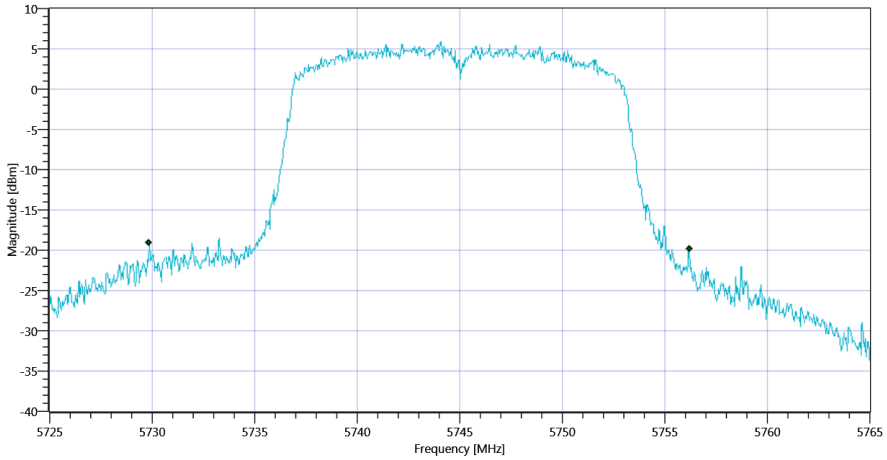
Test at TX 5745 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:12					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5745 MHz - DutyCycle_06112020_091340.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	26.36	MHz	INFO
T1 26dB	---	---	5729.8400	MHz	INFO
T2 26dB	---	---	5756.2000	MHz	INFO

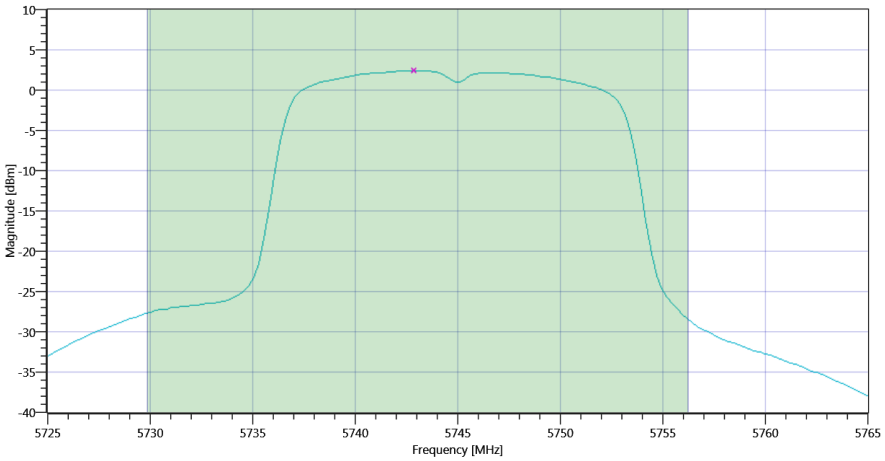


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_06112020_091349.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.55 | 18.79 | 20
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	16000 | 1 | 160 | SWE

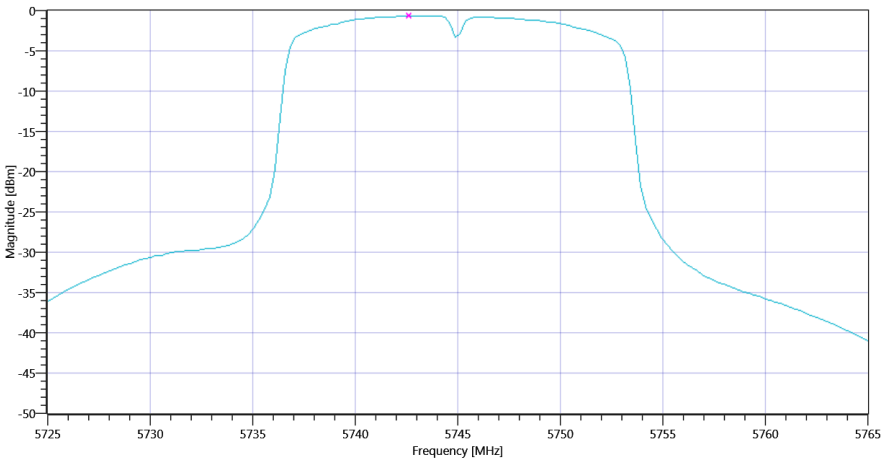
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.41	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	13.8	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	25.21	13.8	dBm	not applicable



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_06112020_091413.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.55 | 18.79 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-0.64	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	30	-0.25	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_06112020_091435.png

TEST FINISHED		
General Verdict	06.11.2020 09:14:36 / RT: 73 s	PASS

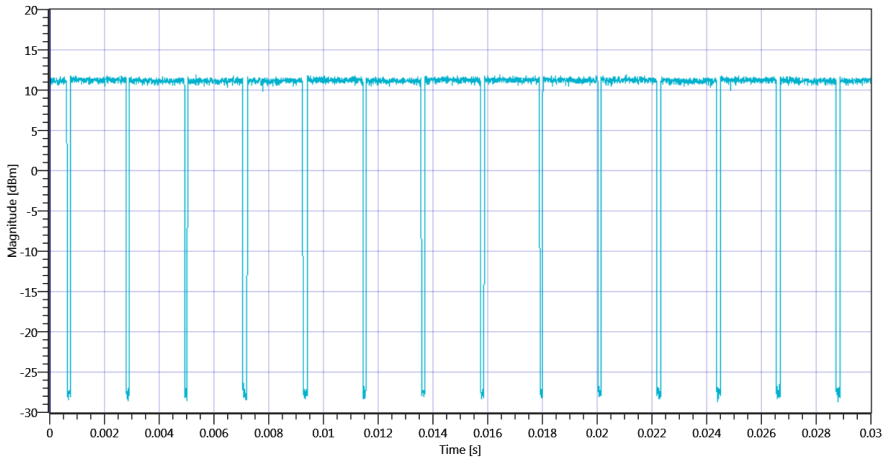
11. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	06.11.2020 09:18:13
Ambit Temp [°C] | Humidity [rel%]	24.4 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	True | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

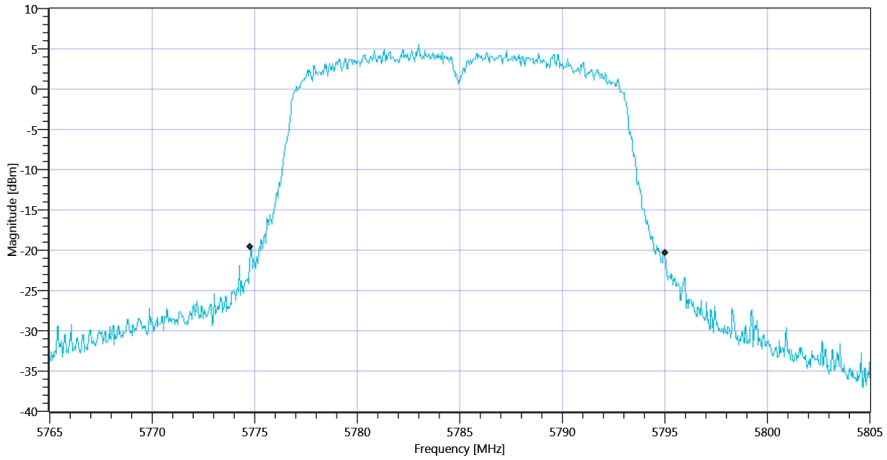
Test at TX 5785 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.918	---	INFO
Duty Cycle min	---	---	0.372	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5785 MHz - DutyCycle_06112020_091830.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.2	MHz	INFO
T1 26dB	---	---	5774.8000	MHz	INFO
T2 26dB	---	---	5795.0000	MHz	INFO

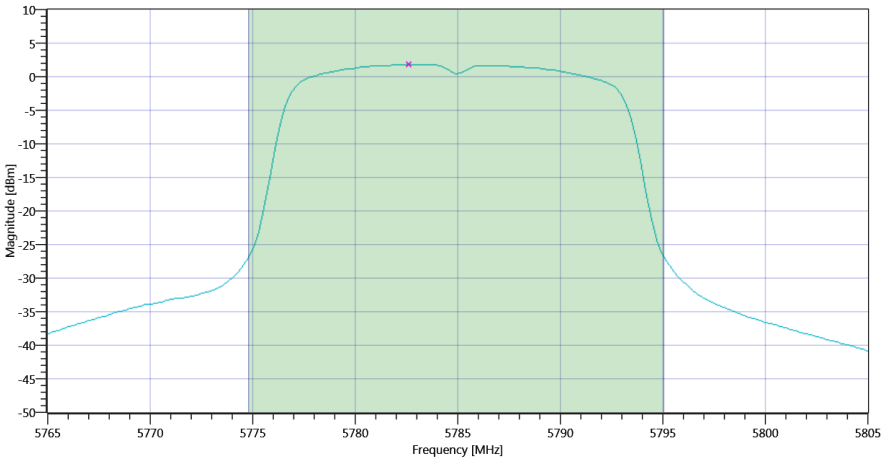


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_06112020_091839.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.85 | 18.77 | 20
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	16000 | 1 | 160 | SWE

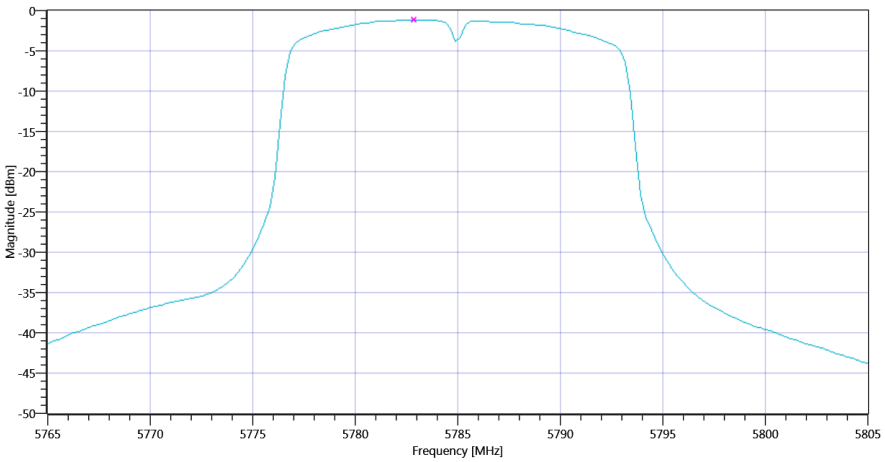
RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	12.84	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	13.21	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.05	13.21	dBm	not applicable



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_06112020_091902.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.85 | 18.77 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	-1.2	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	30	-0.83	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_06112020_091925.png

TEST FINISHED		
General Verdict	06.11.2020 09:19:26 / RT: 72 s	PASS

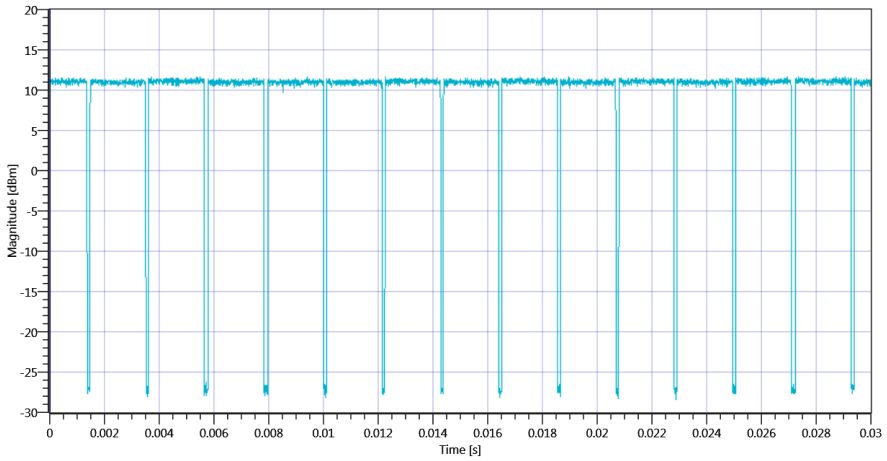
12. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	06.11.2020 09:23:11
Ambit Temp [°C] | Humidity [rel%]	24.5 | 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, F., E.2.e.
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	True | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

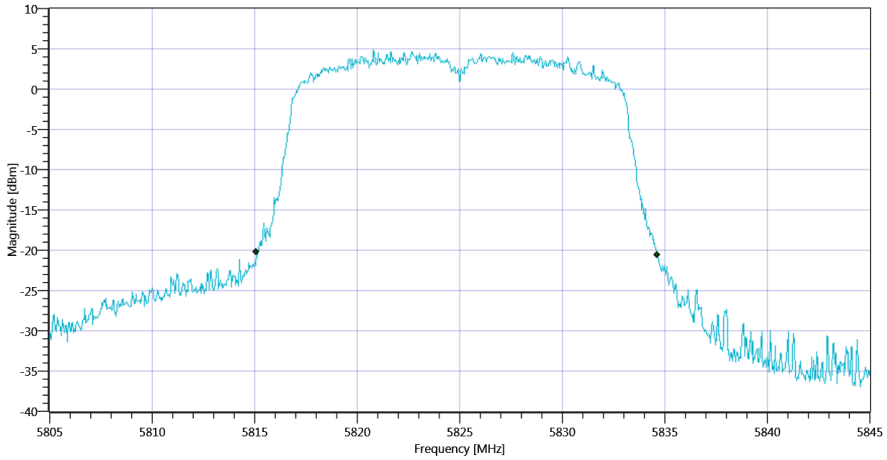
Test at TX 5825 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.918	---	INFO
Duty Cycle min	---	---	0.372	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5825 MHz - DutyCycle_06112020_092328.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	19.56	MHz	INFO
T1 26dB	---	---	5815.0800	MHz	INFO
T2 26dB	---	---	5834.6400	MHz	INFO

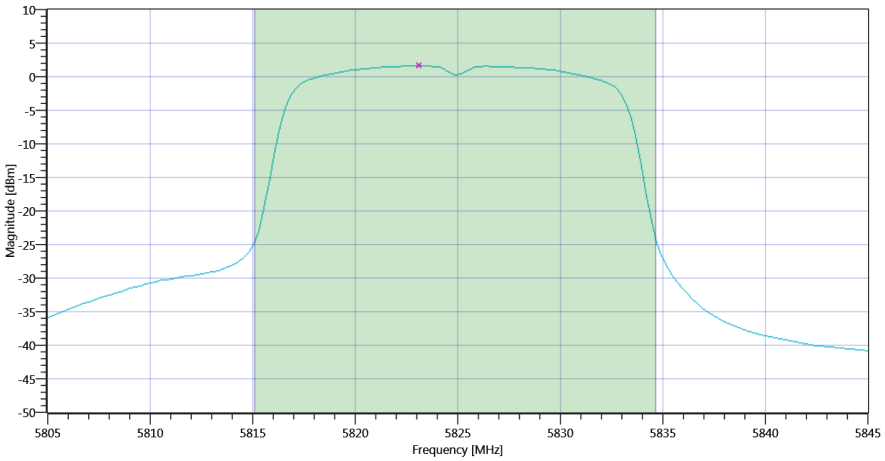


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_06112020_092337.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.45 | 19.08 | 20
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	16000 | 1 | 160 | SWE

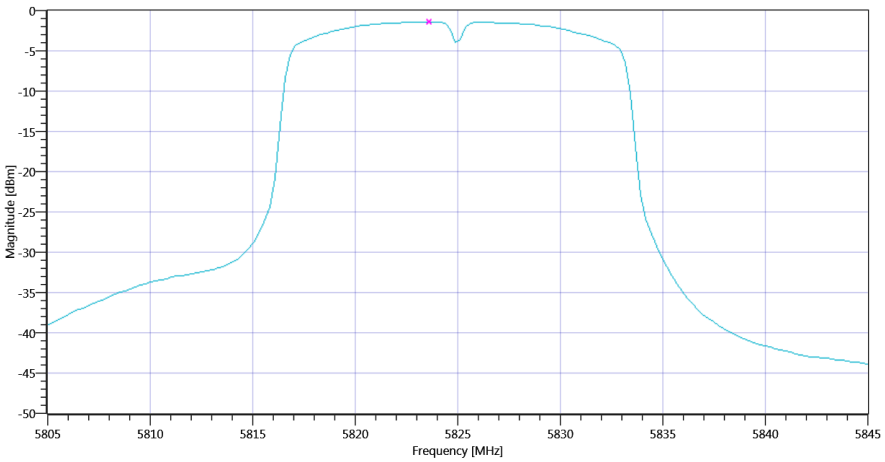
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.68	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	13.05	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.91	13.05	dBm	not applicable



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_06112020_092401.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.45 | 19.08 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.42	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	30	-1.05	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_06112020_092424.png

TEST FINISHED		
General Verdict	06.11.2020 09:24:24 / RT: 73 s	PASS

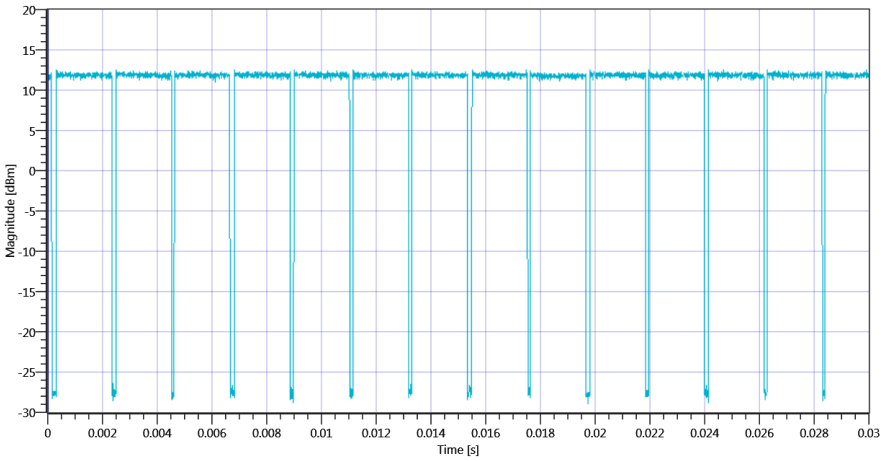
13. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	06.11.2020 08:41:03
Ambit Temp [°C] | Humidity [rel%]	23.7 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

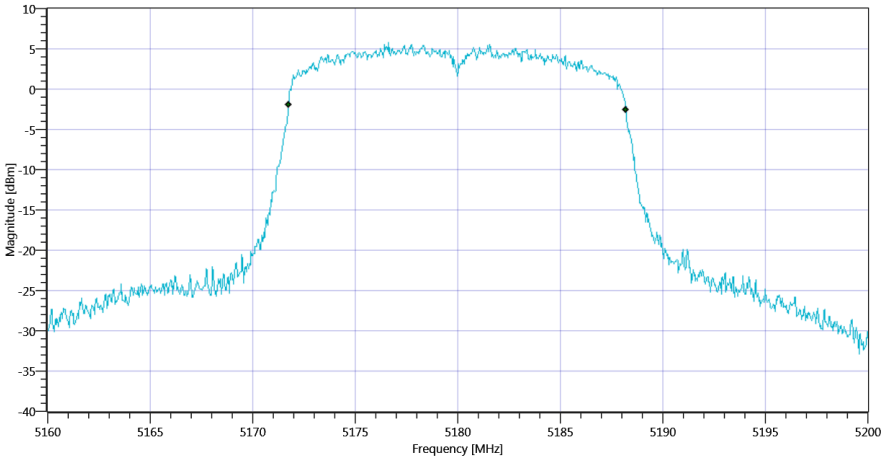
Test at TX 5180 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.918	---	INFO
Duty Cycle min	---	---	0.372	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5180 MHz - DutyCycle_06112020_084121.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.424	MHz	INFO
T1 99%	---	---	5171.7682	MHz	INFO
T2 99%	---	---	5188.1918	MHz	INFO

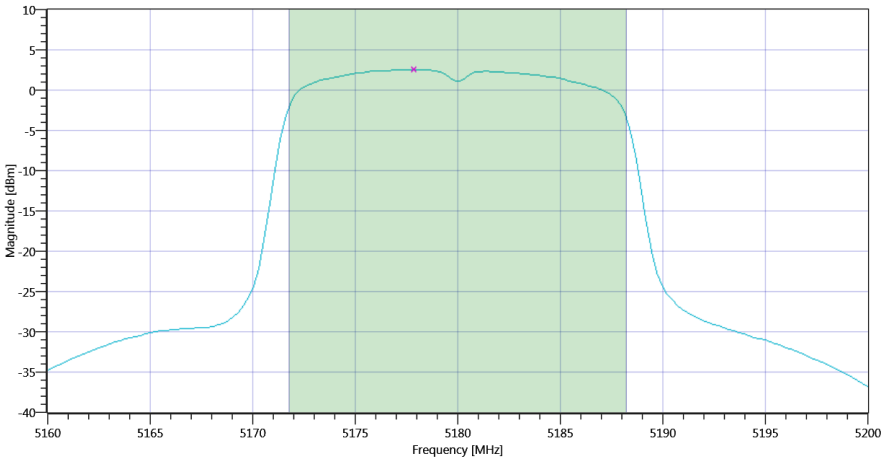


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_06112020_084134.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.07 | 18.86 | 20
Start [MHz] | Stop [MHz]	5160.000 | 5200.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.47	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.84	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.15	13.84	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_06112020_084159.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.51	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	11	2.88	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:42:01 / RT: 57 s	PASS

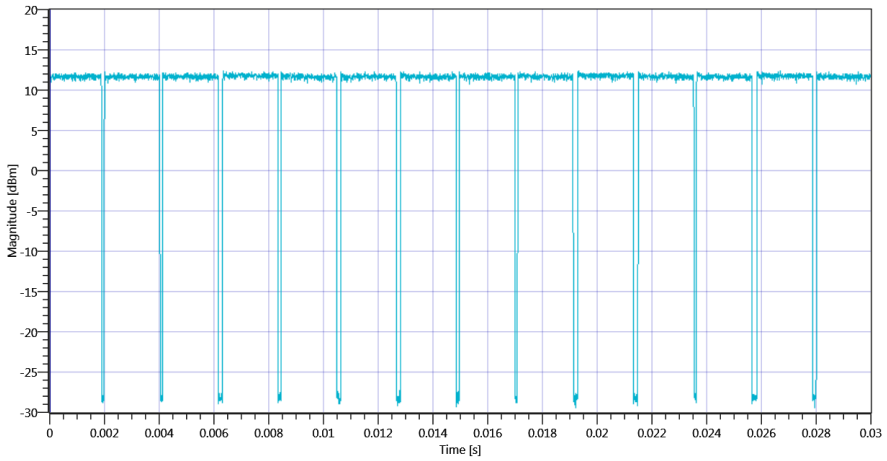
14. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	06.11.2020 08:46:28
Ambit Temp [°C] | Humidity [rel%]	23.8 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	True | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

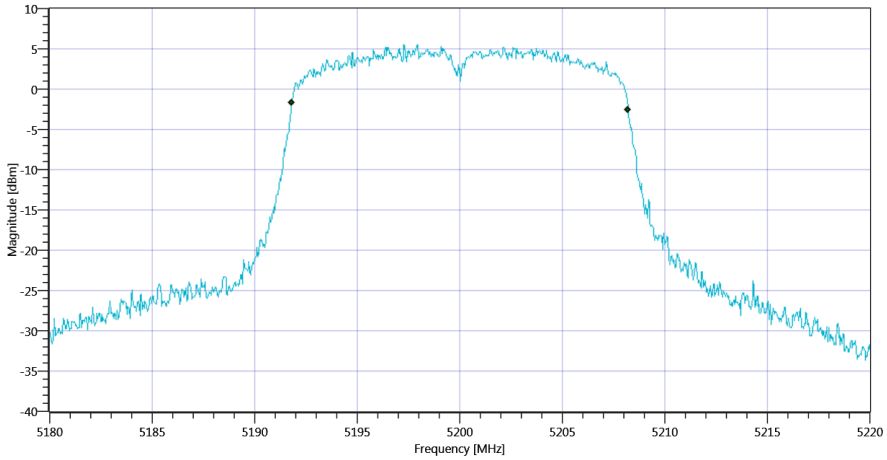
Test at TX 5200 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:12					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5200 MHz - DutyCycle_06112020_084646.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.384	MHz	INFO
T1 99%	---	---	5191.8082	MHz	INFO
T2 99%	---	---	5208.1918	MHz	INFO

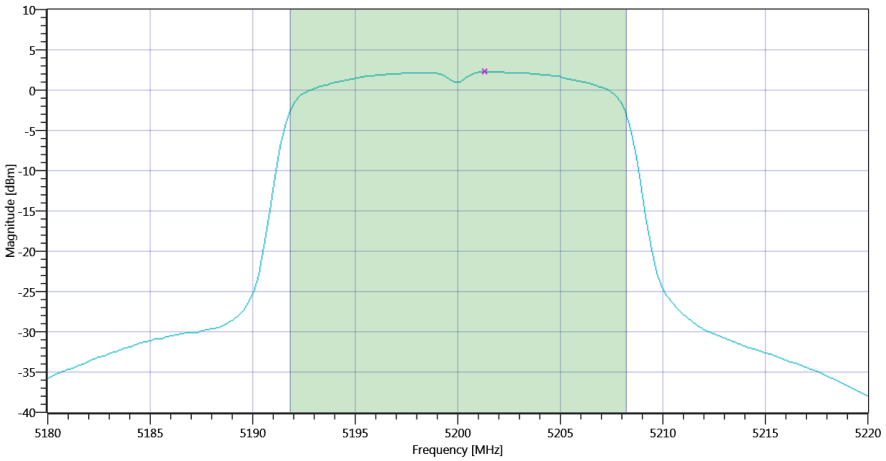


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_06112020_084655.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.36 | 19.04 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.27	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.66	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.14	13.66	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_06112020_084719.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.25	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	2.64	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:47:21 / RT: 53 s	PASS

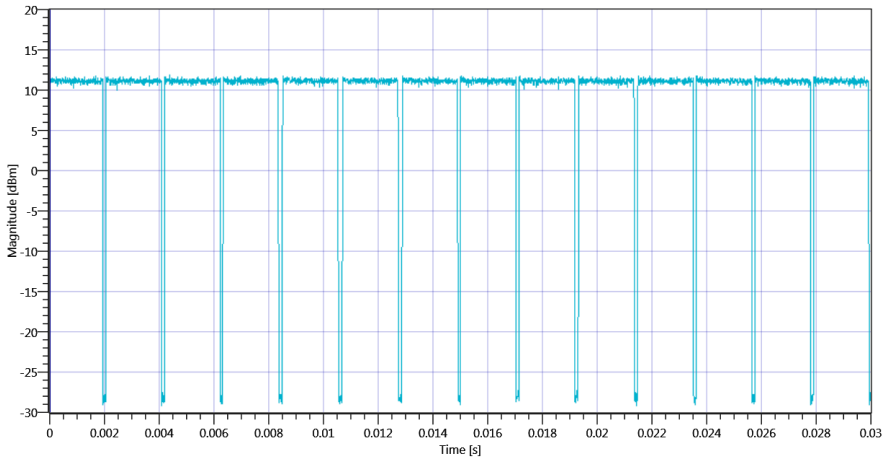
15. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1

Test References	
TC Start	06.11.2020 08:49:55
Ambit Temp [°C] | Humidity [rel%]	23.9 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	True | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

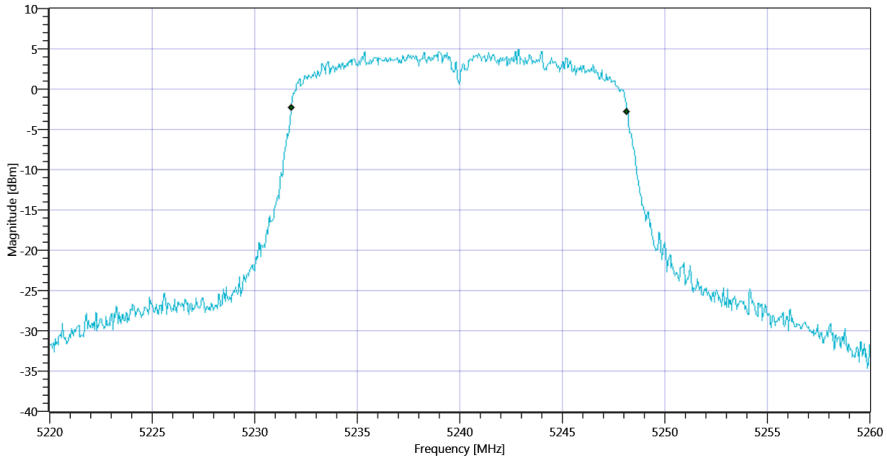
Test at TX 5240 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:12					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.924	---	INFO
Duty Cycle min	---	---	0.343	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.113	ms	INFO
Max Gap Length	---	---	0.165	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 5240 MHz - DutyCycle_06112020_085012.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	16.344	MHz	INFO
T1 99%	---	---	5231.8082	MHz	INFO
T2 99%	---	---	5248.1518	MHz	INFO

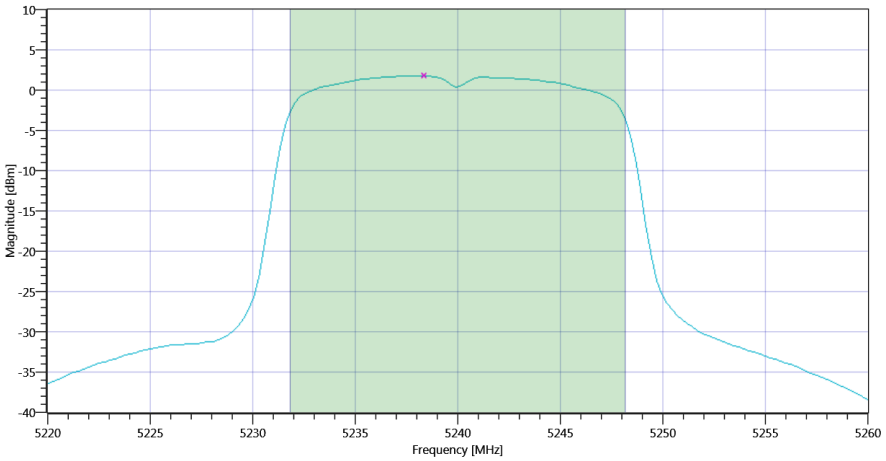


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 BW_06112020_085021.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.17 | 18.96 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.73	dBm	INFO
Duty Cycle Correction	---	---	0.34	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.07	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.13	13.07	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-1 Max OP and PSD_06112020_085045.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	1.73	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.34	dB	INFO
Power Spectral Density DC corrected	---	11	2.07	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:50:47 / RT: 52 s	PASS

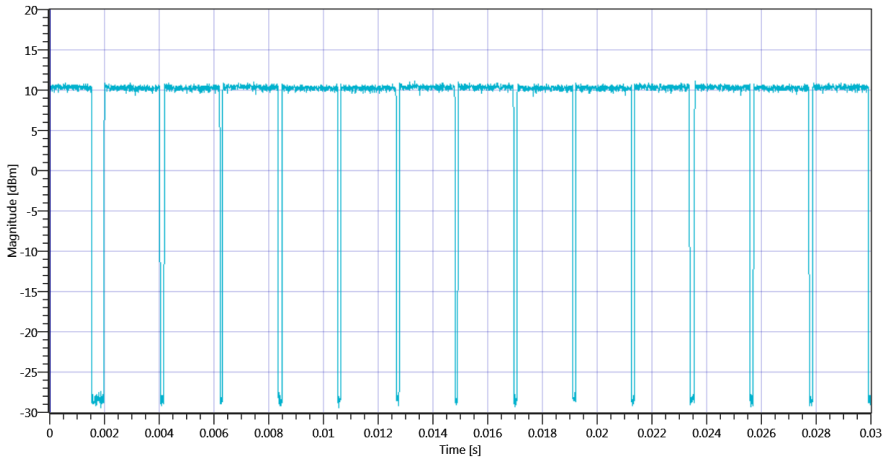
16. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	06.11.2020 08:53:13
Ambit Temp [°C] | Humidity [rel%]	23.9 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

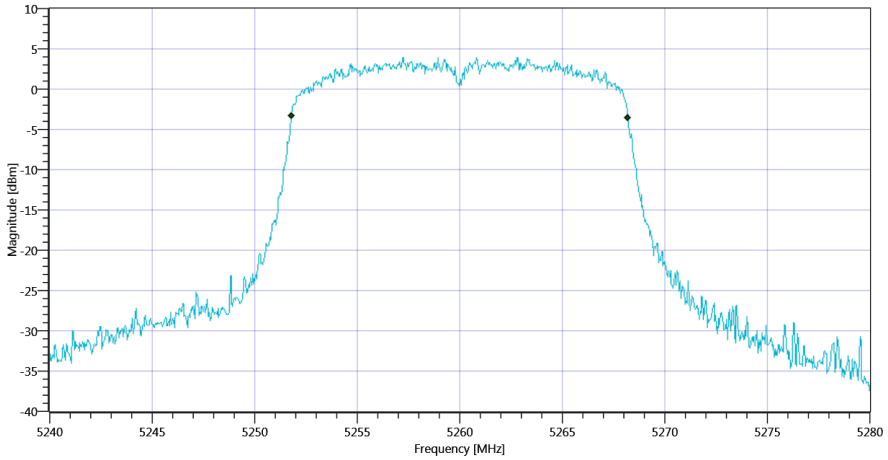
Test at TX 5260 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:12					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5260 MHz - DutyCycle_06112020_085330.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.384	MHz	INFO
T1 99%	---	---	5251.8082	MHz	INFO
T2 99%	---	---	5268.1918	MHz	INFO

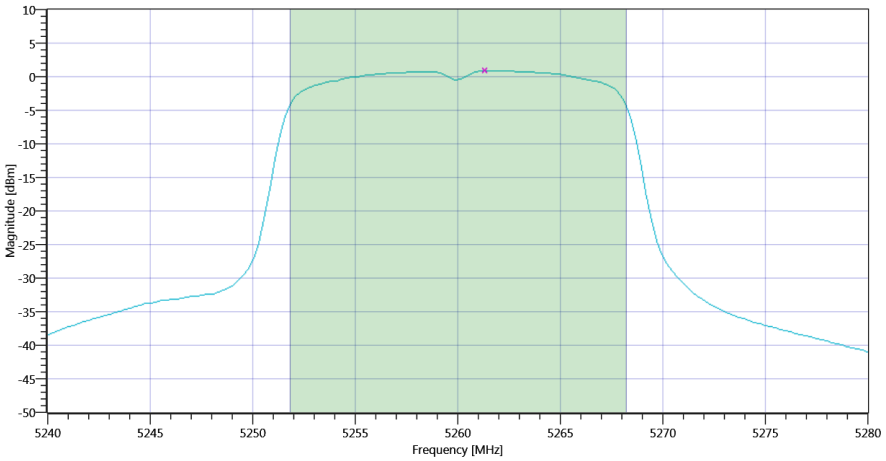


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_06112020_085339.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	20.96 | 18.88 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Max Output Power	---	---	11.84	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.23	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.14	12.23	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_06112020_085403.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Power Spectral Density	---	---	0.84	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	1.23	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:54:05 / RT: 52 s	PASS

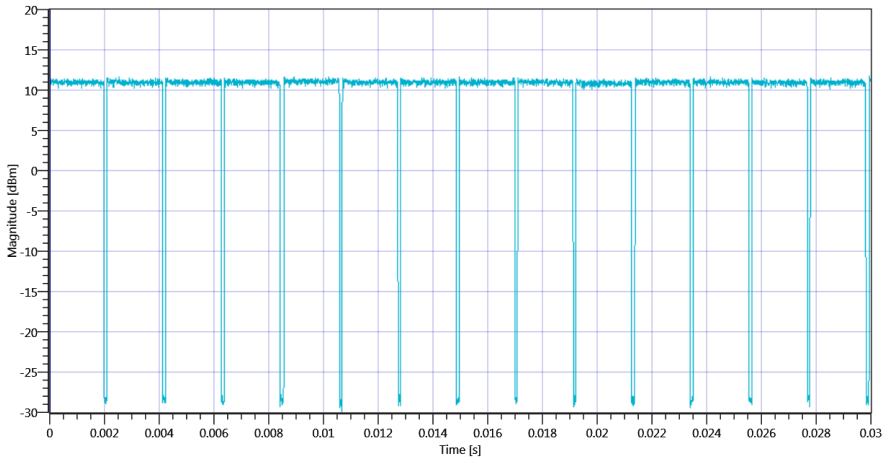
17. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	06.11.2020 08:56:31
Ambit Temp [°C] | Humidity [rel%]	24.0 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	True | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

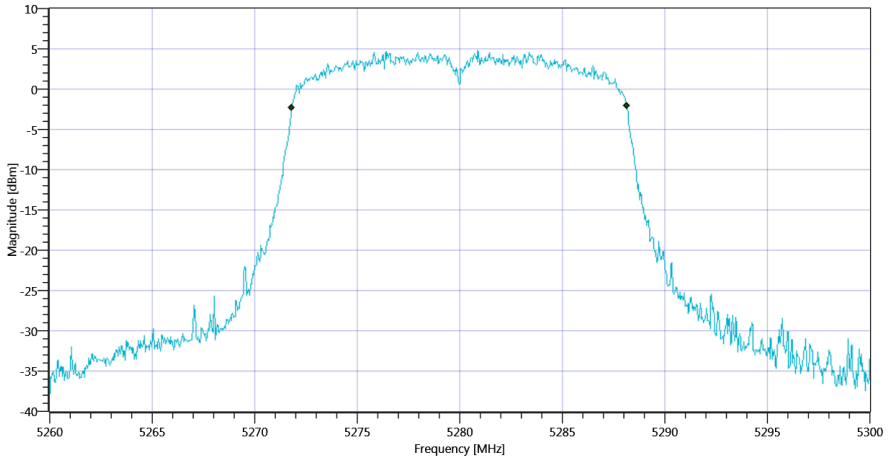
Test at TX 5280 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.924	---	INFO
Duty Cycle min	---	---	0.343	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.165	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5280 MHz - DutyCycle_06112020_085648.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	16.344	MHz	INFO
T1 99%	---	---	5271.8082	MHz	INFO
T2 99%	---	---	5288.1518	MHz	INFO

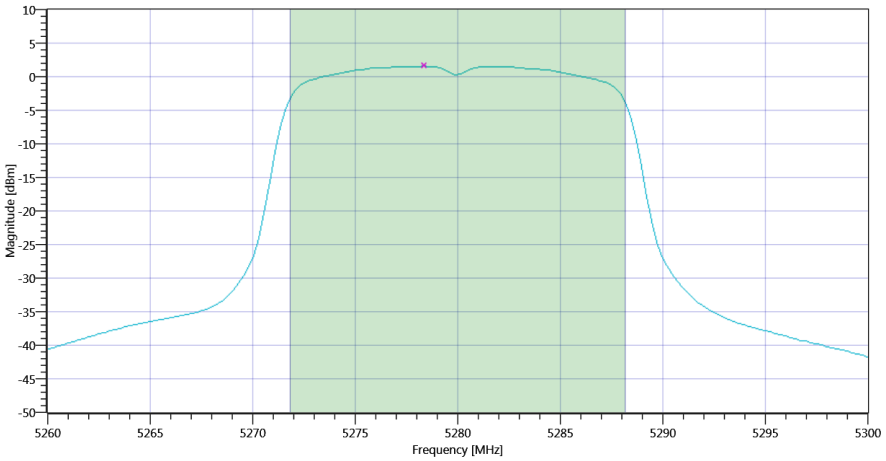


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_06112020_085658.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.61 | 18.75 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.53	dBm	INFO
Duty Cycle Correction	---	---	0.34	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.87	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.13	12.87	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_06112020_085722.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	1.54	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.34	dB	INFO
Power Spectral Density DC corrected	---	11	1.88	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 08:57:24 / RT: 53 s	PASS

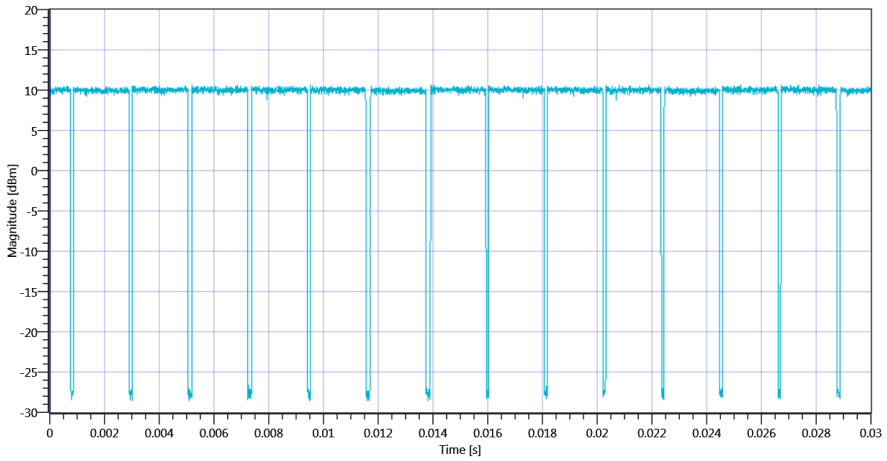
18. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	06.11.2020 08:59:52
Ambit Temp [°C] | Humidity [rel%]	24.1 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	True | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

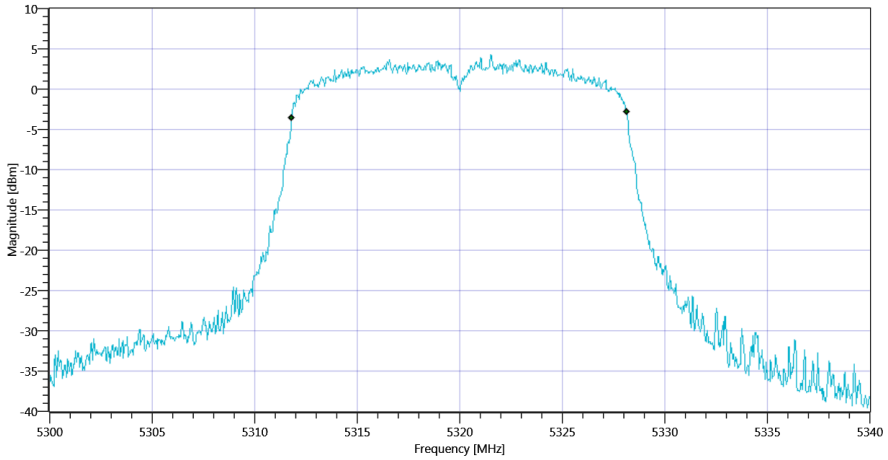
Test at TX 5320 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A 5320 MHz - DutyCycle_06112020_090010.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	16.344	MHz	INFO
T1 99%	---	---	5311.8082	MHz	INFO
T2 99%	---	---	5328.1518	MHz	INFO

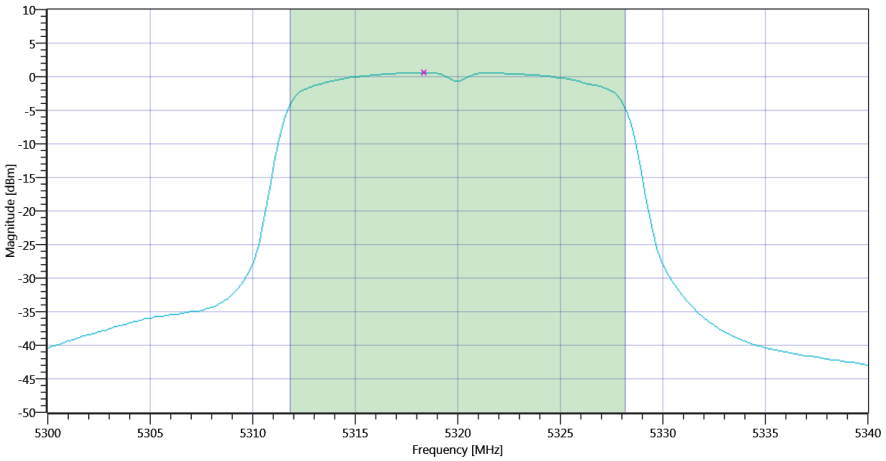


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A BW_06112020_090019.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.18 | 18.67 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.59	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	11.98	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.13	11.98	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2A Max OP and PSD_06112020_090043.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.58	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	0.97	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:00:45 / RT: 52 s	PASS

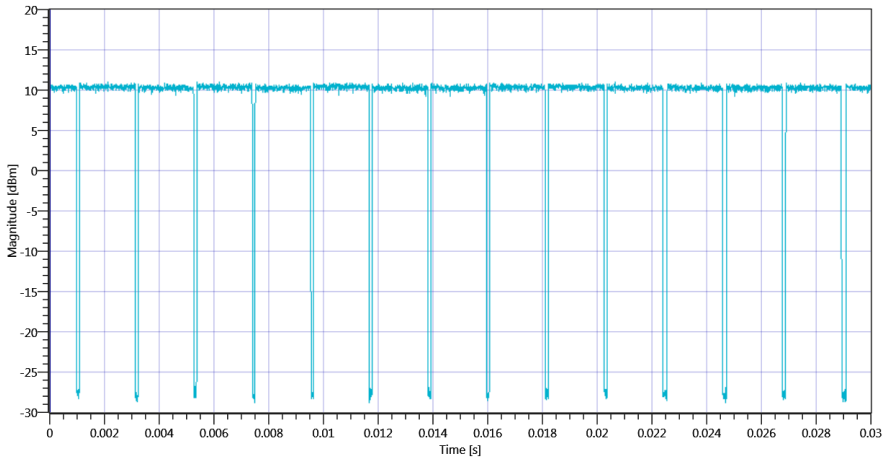
19. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	06.11.2020 09:04:10
Ambit Temp [°C] | Humidity [rel%]	24.2 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

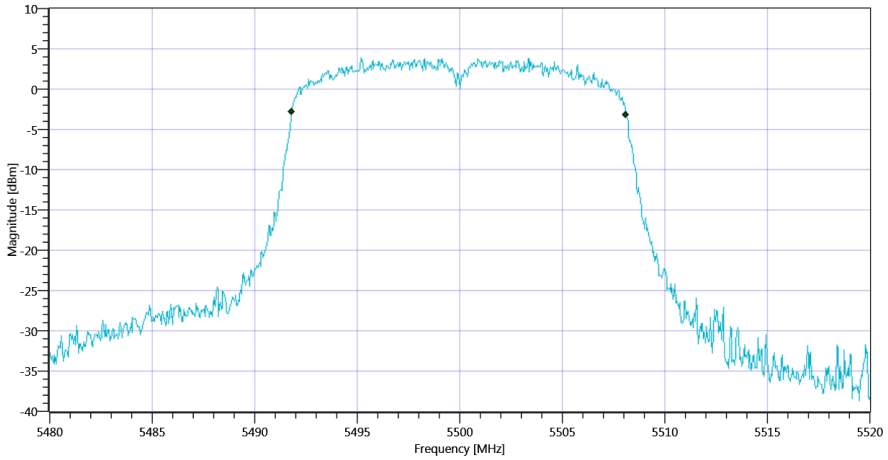
Test at TX 5500 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.918	---	INFO
Duty Cycle min	---	---	0.372	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5500 MHz - DutyCycle_06112020_090428.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.304	MHz	INFO
T1 99%	---	---	5491.8082	MHz	INFO
T2 99%	---	---	5508.1119	MHz	INFO

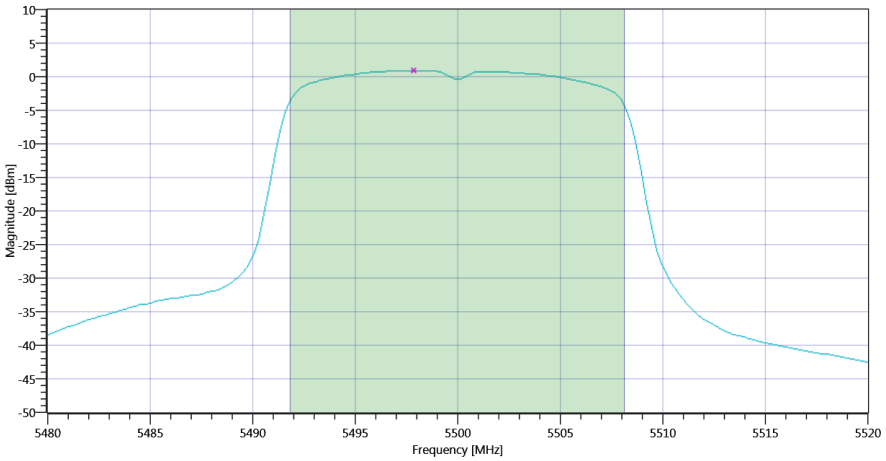


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_06112020_090437.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.26 | 18.98 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.86	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.23	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.12	12.23	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_06112020_090501.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.92	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	11	1.29	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:05:04 / RT: 53 s	PASS

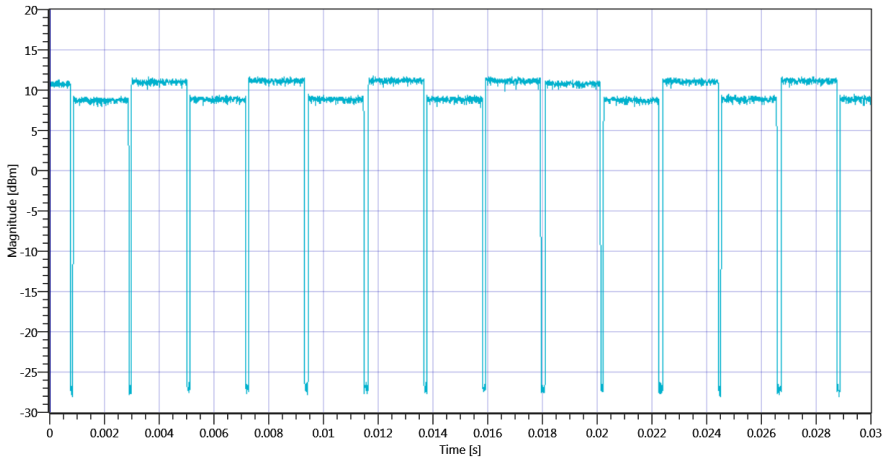
20. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	06.11.2020 09:07:34
Ambit Temp [°C] | Humidity [rel%]	24.2 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	True | Freq [MHz] 5600
Frequency high to test	False | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

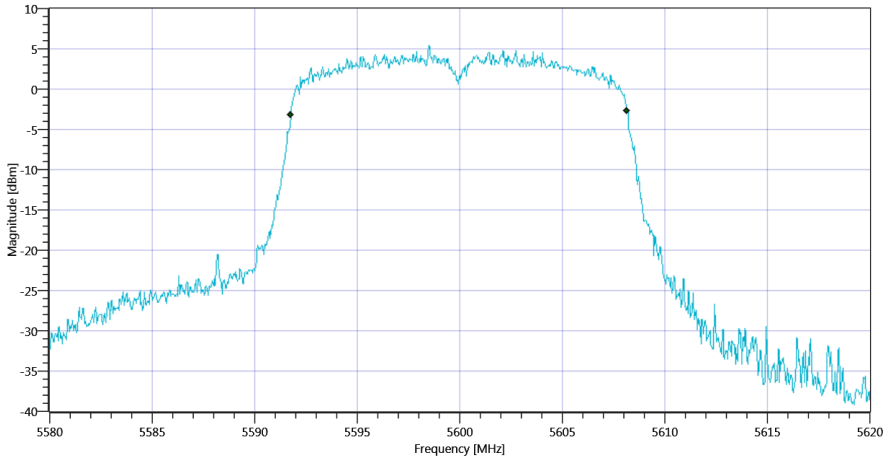
Test at TX 5600 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.113	ms	INFO
Max Gap Length	---	---	0.187	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5600 MHz - DutyCycle_06112020_090752.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.384	MHz	INFO
T1 99%	---	---	5591.7682	MHz	INFO
T2 99%	---	---	5608.1518	MHz	INFO

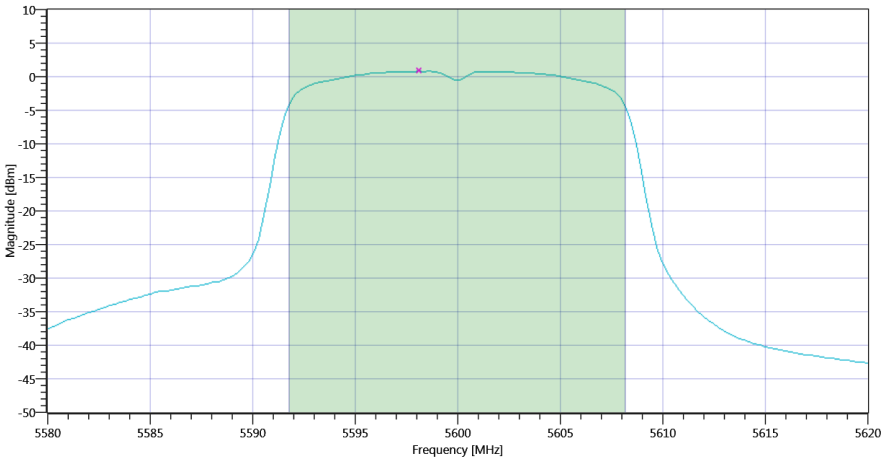


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_06112020_090800.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.05 | 19.09 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	11.81	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	12.2	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.14	12.2	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_06112020_090824.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	0.79	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	1.18	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:08:27 / RT: 52 s	PASS

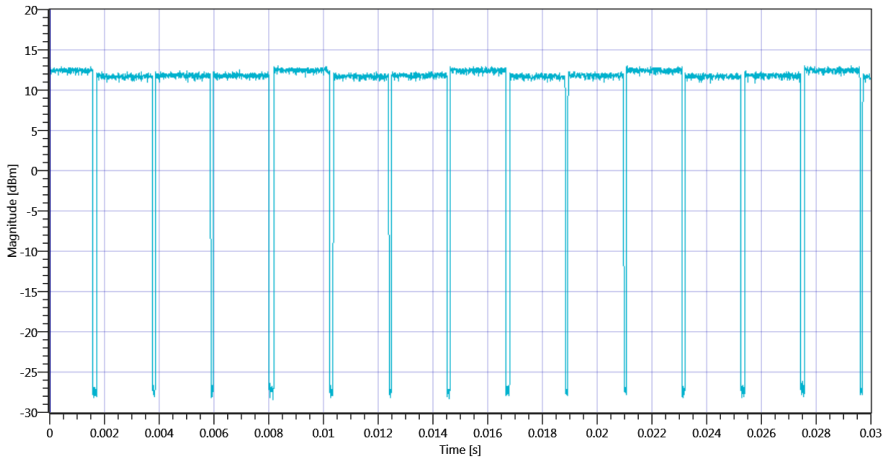
21. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	06.11.2020 09:10:54
Ambit Temp [°C] | Humidity [rel%]	24.3 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	True | Freq [MHz] 5700
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

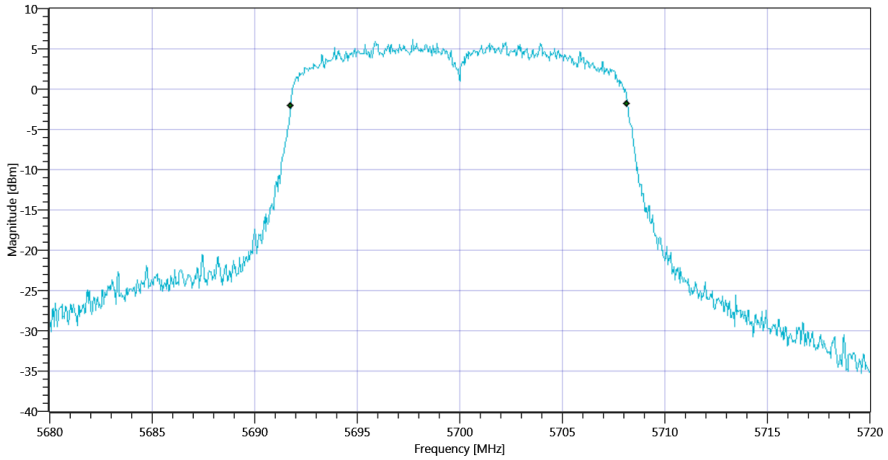
Test at TX 5700 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5700 MHz - DutyCycle_06112020_091112.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.384	MHz	INFO
T1 99%	---	---	5691.7682	MHz	INFO
T2 99%	---	---	5708.1518	MHz	INFO

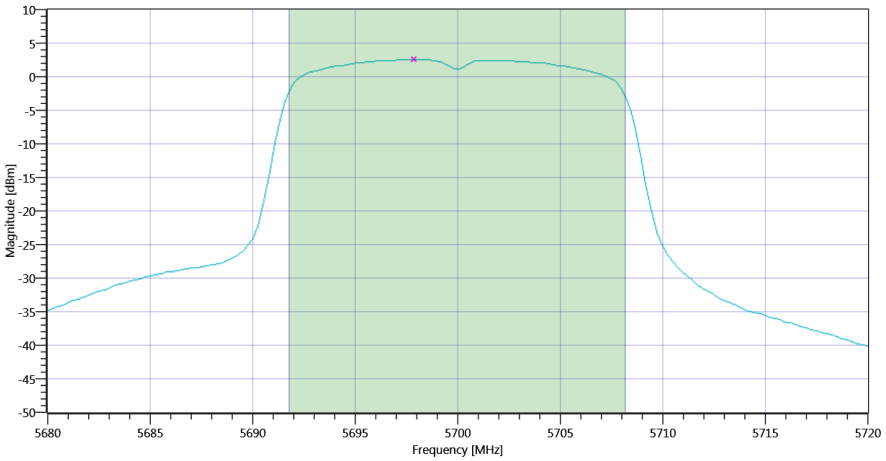


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_06112020_091120.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.27 | 19.15 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.53	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	13.92	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.14	13.92	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_06112020_091144.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.54	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	11	2.93	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 09:11:46 / RT: 52 s	PASS

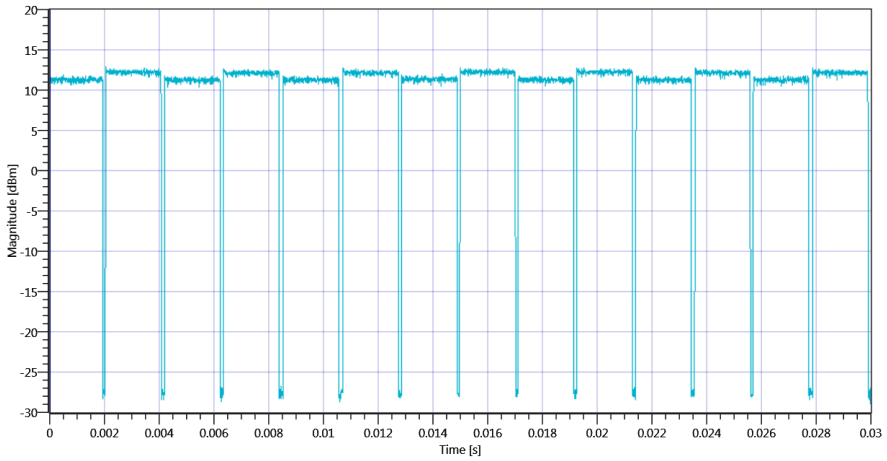
22. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	06.11.2020 09:14:41
Ambit Temp [°C] | Humidity [rel%]	24.3 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

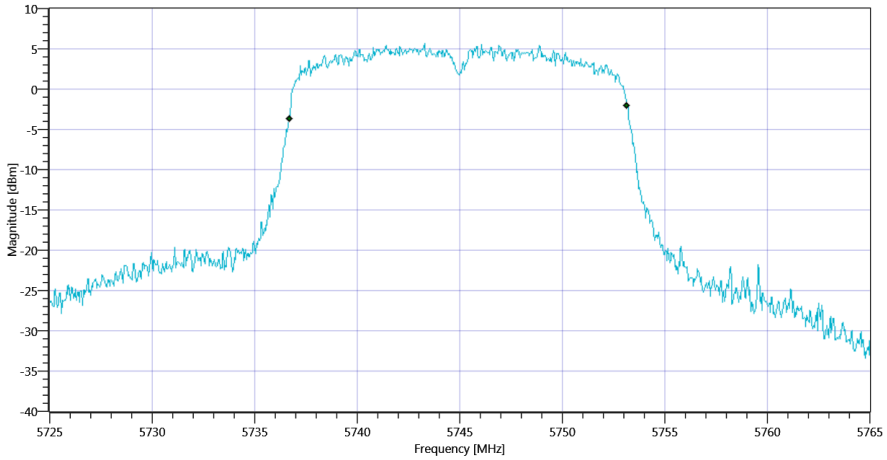
Test at TX 5745 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:12					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.918	---	INFO
Duty Cycle min	---	---	0.372	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5745 MHz - DutyCycle_06112020_091458.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	16.464	MHz	INFO
T1 99%	---	---	5736.6883	MHz	INFO
T2 99%	---	---	5753.1518	MHz	INFO

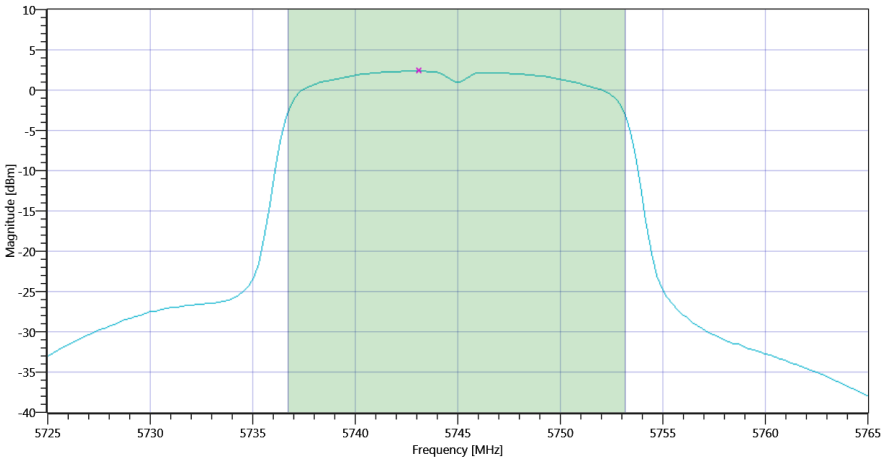


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_06112020_091506.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	23.06 | 18.79 | 20
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	16000 | 1 | 160 | SWE

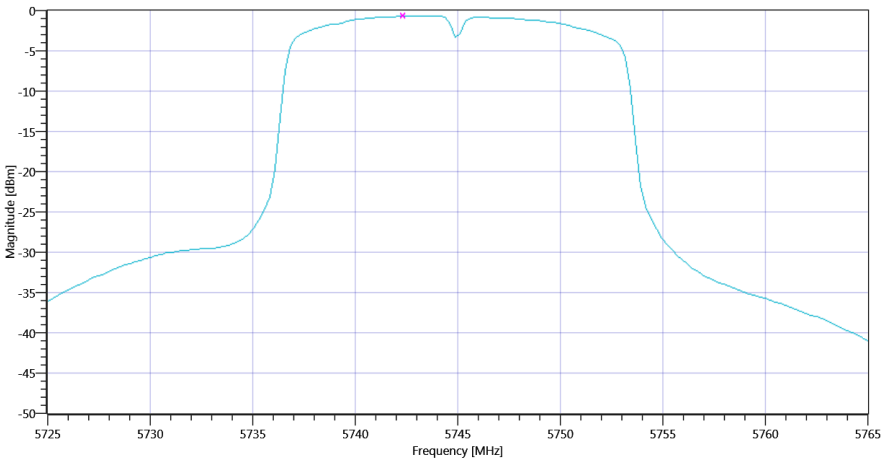
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.33	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	13.7	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.17	13.7	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_06112020_091530.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	23.06 | 18.79 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-0.66	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	30	-0.29	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_06112020_091553.png

TEST FINISHED		
General Verdict	06.11.2020 09:15:53 / RT: 72 s	PASS

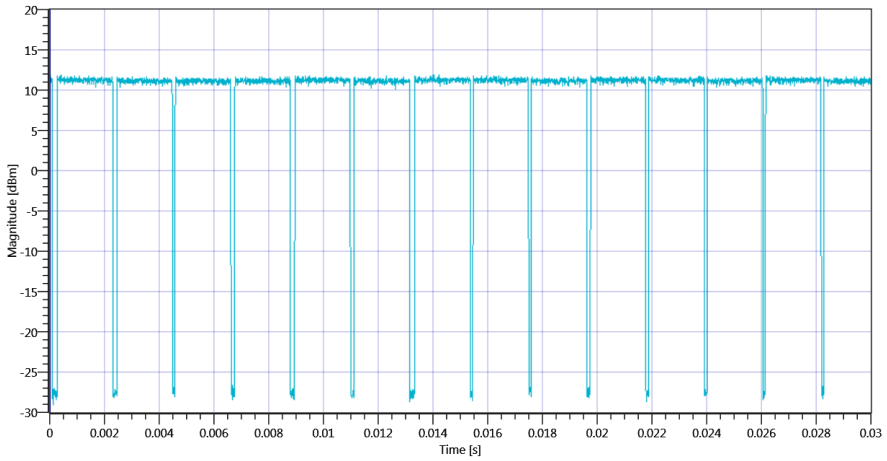
23. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	06.11.2020 09:19:30
Ambit Temp [°C] | Humidity [rel%]	24.4 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	True | Freq [MHz] 5785
Frequency high to test	False | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

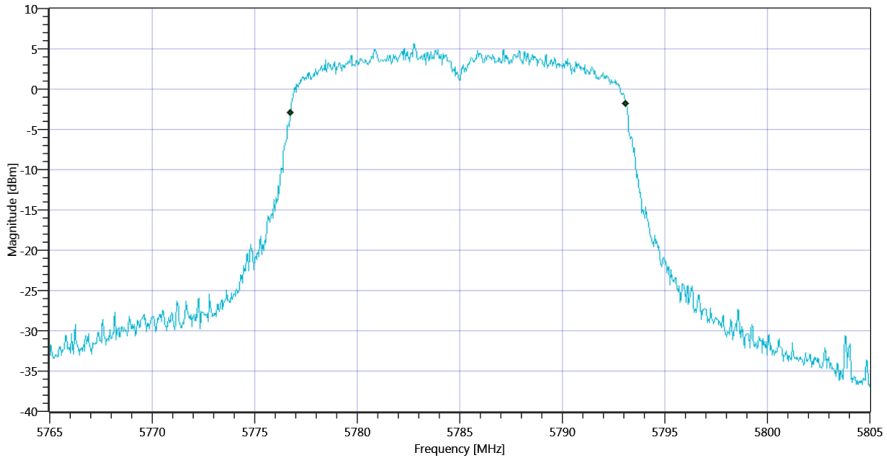
Test at TX 5785 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.915	---	INFO
Duty Cycle min	---	---	0.386	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5785 MHz - DutyCycle_06112020_091948.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.344	MHz	INFO
T1 99%	---	---	5776.7682	MHz	INFO
T2 99%	---	---	5793.1119	MHz	INFO

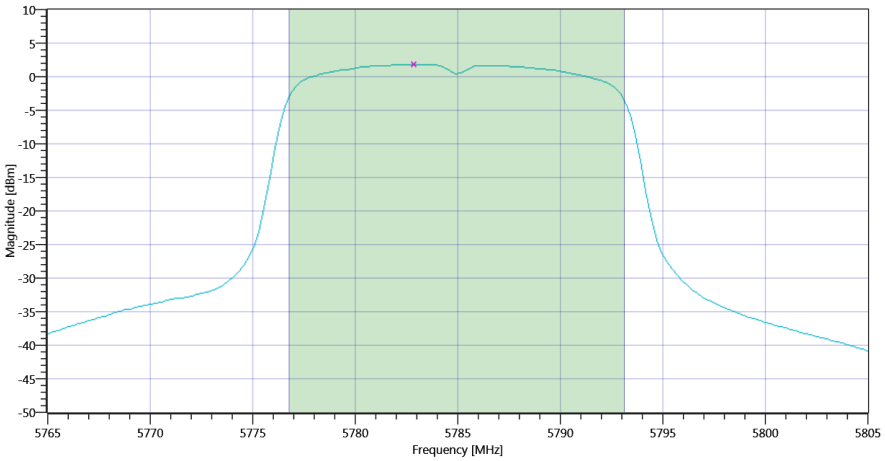


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_06112020_091957.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.86 | 18.77 | 20
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	16000 | 1 | 160 | SWE

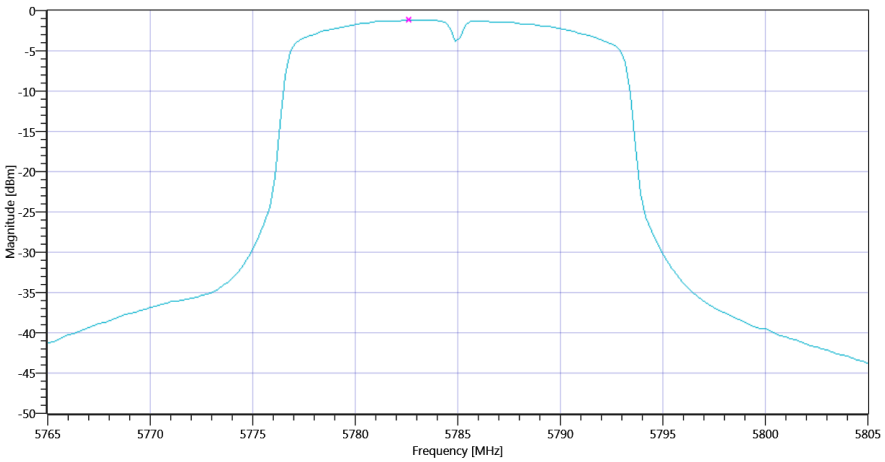
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.76	dBm	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	13.15	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.13	13.15	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_06112020_092021.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.86 | 18.77 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.19	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.39	dB	INFO
Power Spectral Density DC corrected	---	30	-0.8	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_06112020_092043.png

TEST FINISHED		
General Verdict	06.11.2020 09:20:44 / RT: 73 s	PASS

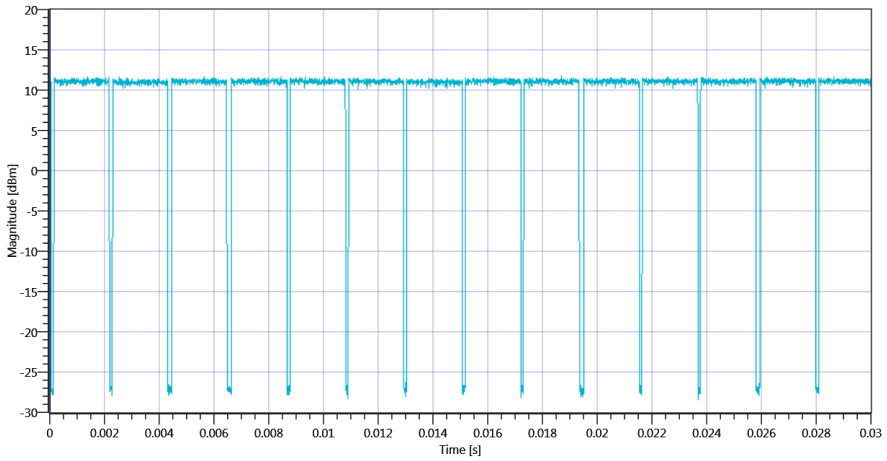
24. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3

Test References	
TC Start	06.11.2020 09:24:29
Ambit Temp [°C] | Humidity [rel%]	24.5 | 27
System Version	1.0.1.1
Test Specification	ISED
Test Method	
Class / TC Version	TC_VM_FCC15407_Max_Output_Power_and_PSD_V01 Version: 0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5745
Frequency mid to test	False | Freq [MHz] 5785
Frequency high to test	True | Freq [MHz] 5825
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

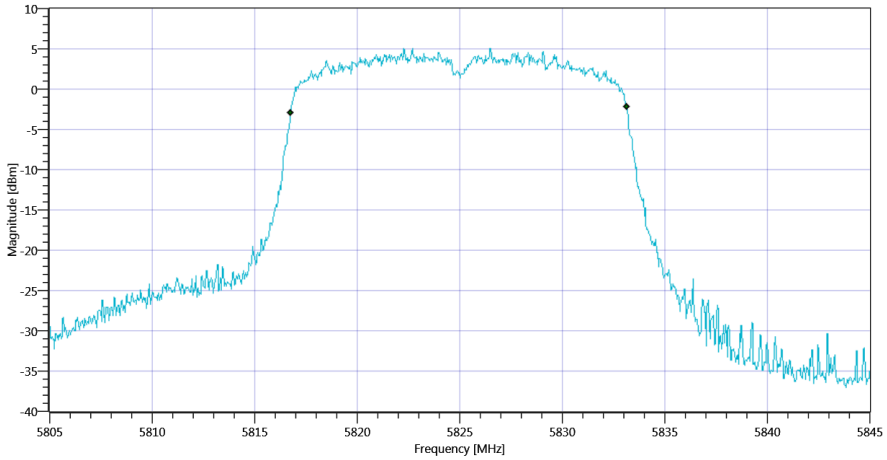
Test at TX 5825 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:13					
Duty Cycle (Burst Ratio) max	---	---	0.947	---	INFO
Duty Cycle max	---	---	0.237	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.918	---	INFO
Duty Cycle min	---	---	0.372	dB	INFO
Max TX Burst Length	---	---	2.025	ms	INFO
Min Gap Length	---	---	0.112	ms	INFO
Max Gap Length	---	---	0.18	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 5825 MHz - DutyCycle_06112020_092447.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.384	MHz	INFO
T1 99%	---	---	5816.7682	MHz	INFO
T2 99%	---	---	5833.1518	MHz	INFO

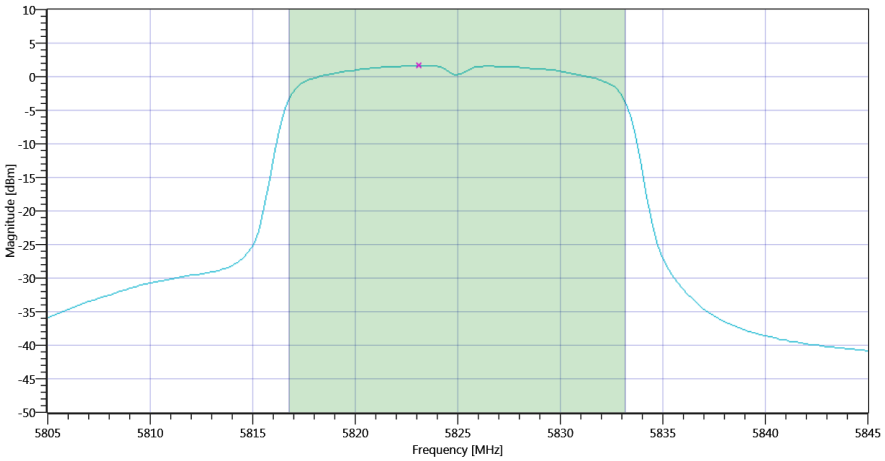


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 BW_06112020_092456.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.57 | 19.08 | 20
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	16000 | 1 | 160 | SWE

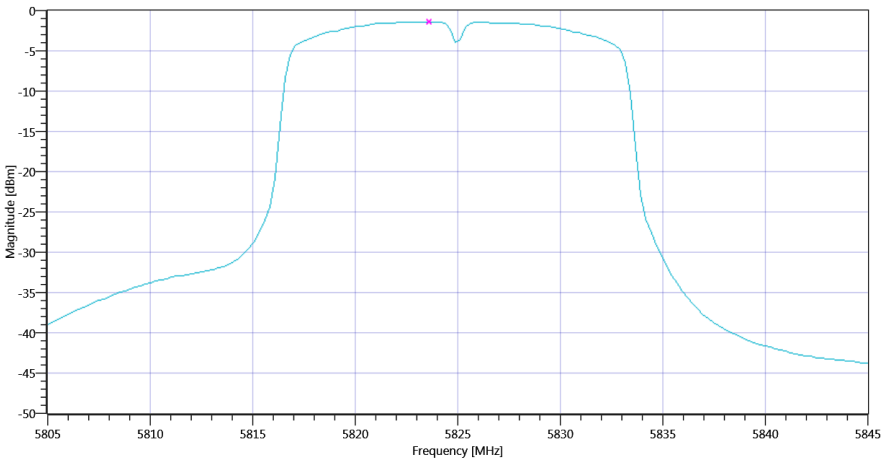
RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	12.61	dBm	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	12.98	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.14	12.98	dBm	not applicable



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 Max OP and PSD_06112020_092520.png

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	21.57 | 19.08 | 20
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	16000 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.4	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0.37	dB	INFO
Power Spectral Density DC corrected	---	30	-1.03	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-3 PSD UNII-3_06112020_092542.png

TEST FINISHED		
General Verdict	06.11.2020 09:25:43 / RT: 73 s	PASS

25. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1

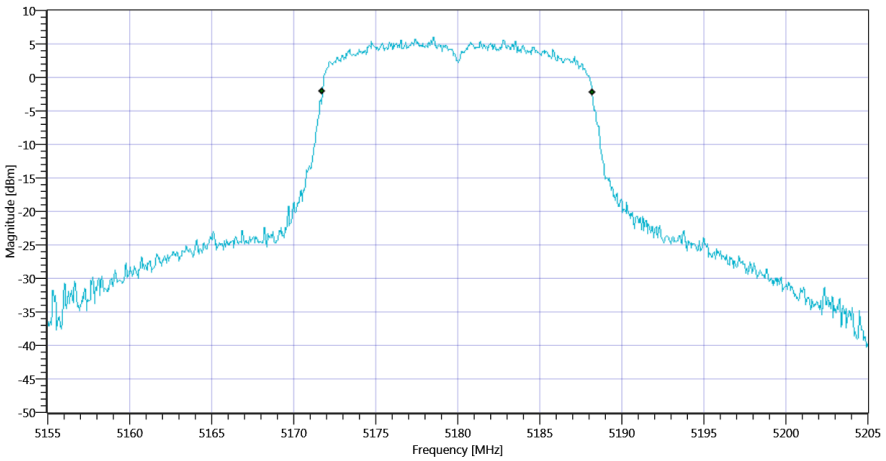
Test References	
TC Start	06.11.2020 08:42:05
Ambit Temp [°C] | Humidity [rel%]	23.7 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

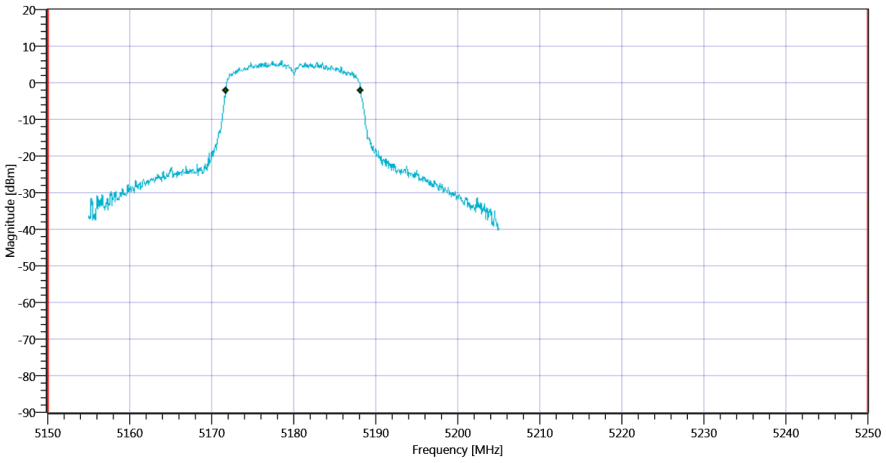
Test at TX 5180 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.40 | 18.86 | 15
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%	---	---	16.434	MHz	INFO
T1 99%	5150.000000	---	5171.7582	MHz	PASS
T2 99%	---	5250.000000	5188.1918	MHz	PASS

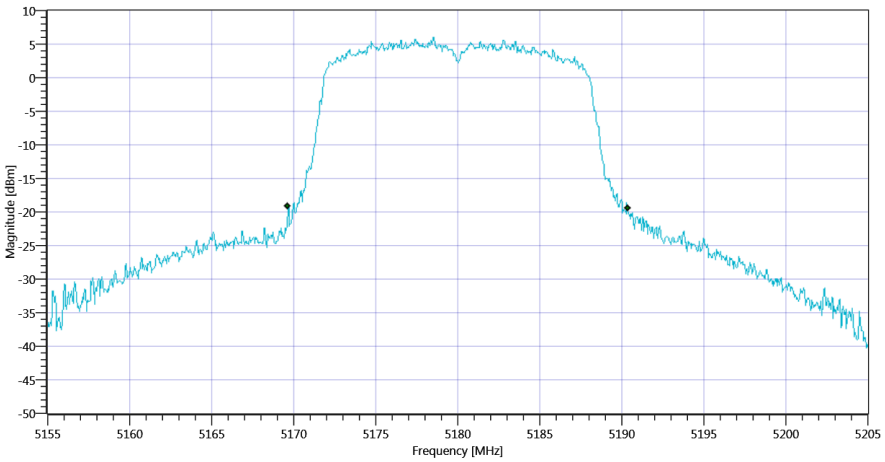


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_06112020_084235.png

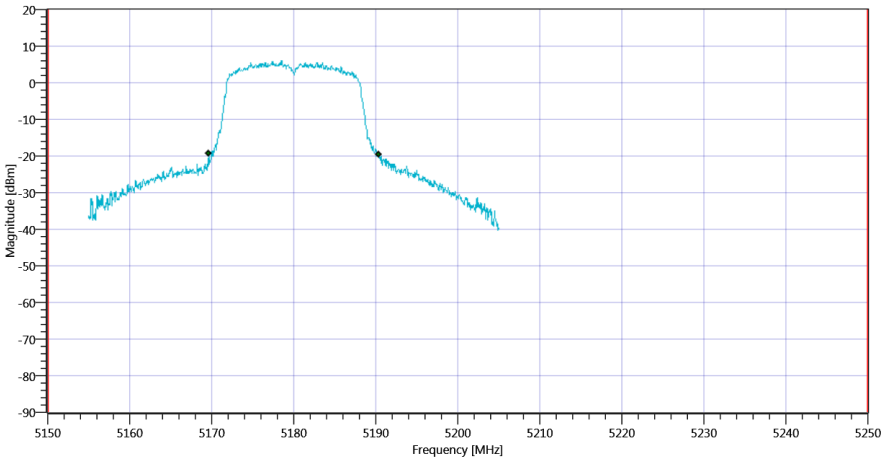


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_06112020_084239.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.7	MHz	INFO
T1 26dB	5150.000000	---	5169.6500	MHz	PASS
T2 26dB	---	5250.000000	5190.3500	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_06112020_084244.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_06112020_084247.png

TEST FINISHED		
General Verdict	06.11.2020 08:42:48 / RT: 42 s	PASS

26. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1

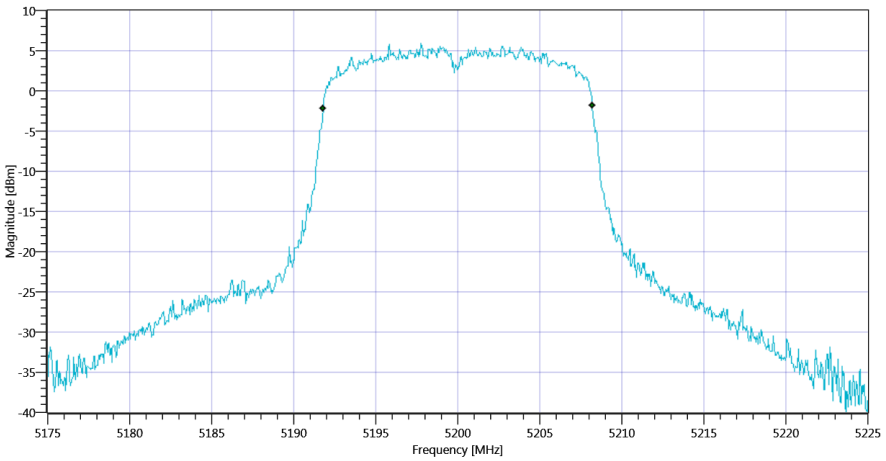
Test References	
TC Start	06.11.2020 08:47:26
Ambit Temp [°C] | Humidity [rel%]	23.8 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	True | Freq [MHz] 5200
Frequency high to test	False | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

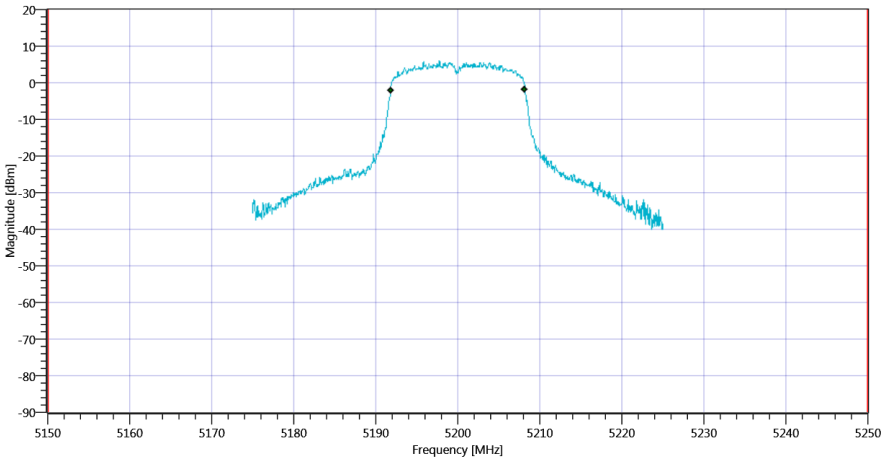
Test at TX 5200 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.08 | 19.04 | 15
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%	---	---	16.384	MHz	INFO
T1 99%	5150.000000	---	5191.8082	MHz	PASS
T2 99%	---	5250.000000	5208.1918	MHz	PASS

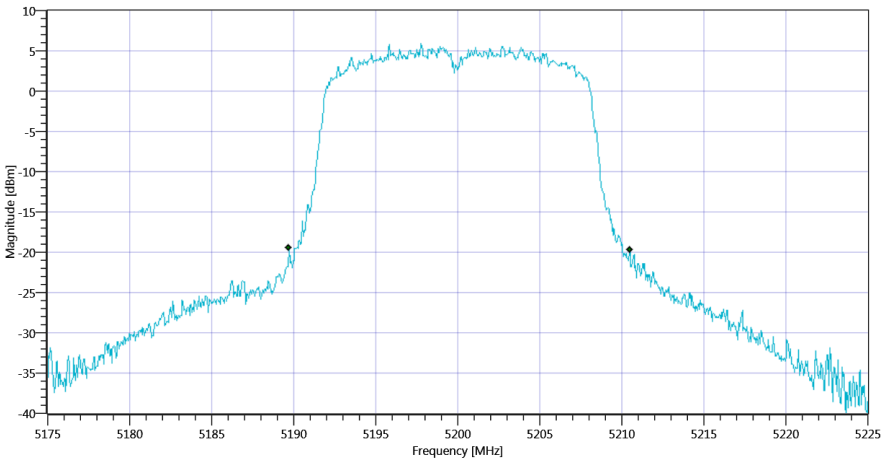


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_06112020_084756.png

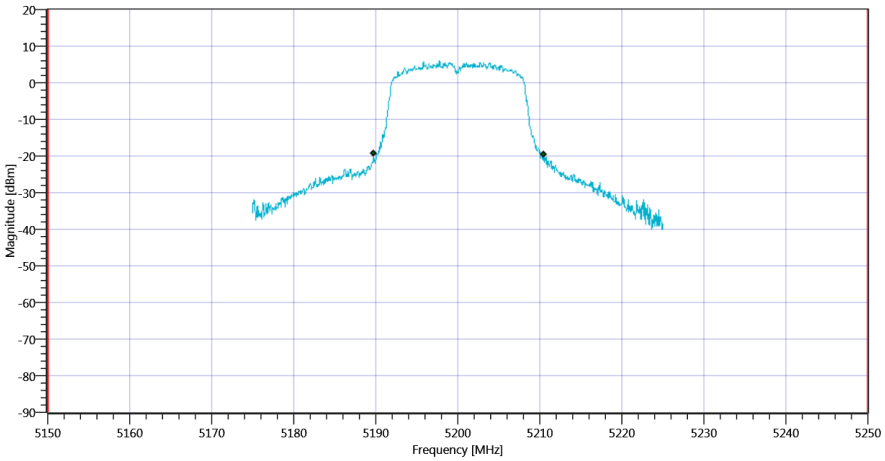


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_06112020_084800.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.8	MHz	INFO
T1 26dB	5150.000000	---	5189.7000	MHz	PASS
T2 26dB	---	5250.000000	5210.5000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_06112020_084804.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_06112020_084808.png

TEST FINISHED		
General Verdict	06.11.2020 08:48:09 / RT: 42 s	PASS

27. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1

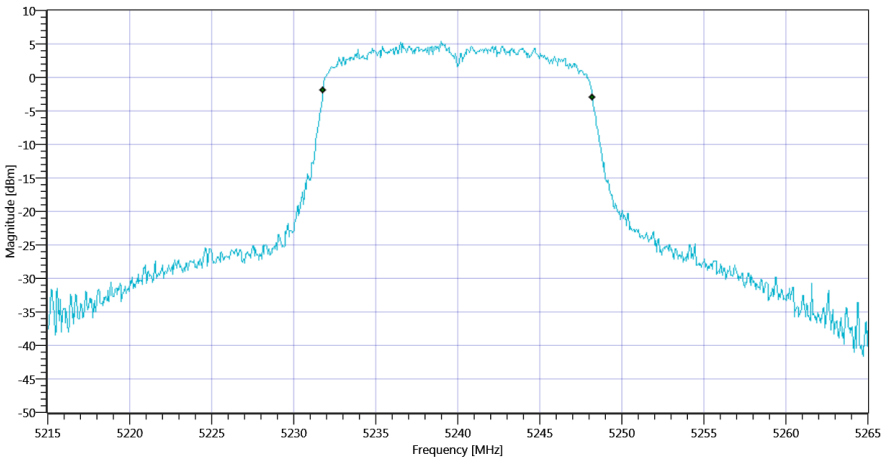
Test References	
TC Start	06.11.2020 08:50:52
Ambit Temp [°C] | Humidity [rel%]	23.9 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5180
Frequency mid to test	False | Freq [MHz] 5200
Frequency high to test	True | Freq [MHz] 5240
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

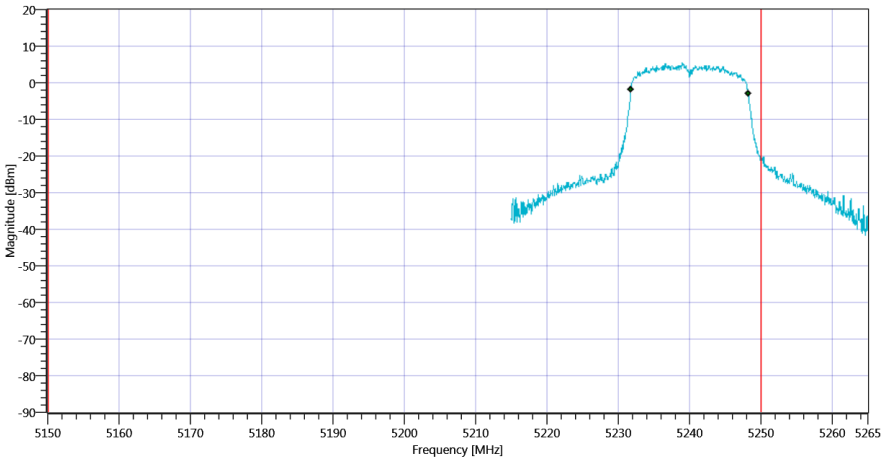
Test at TX 5240 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.79 | 18.96 | 15
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%	---	---	16.384	MHz	INFO
T1 99%	5150.000000	---	5231.8082	MHz	PASS
T2 99%	---	5250.000000	5248.1918	MHz	PASS

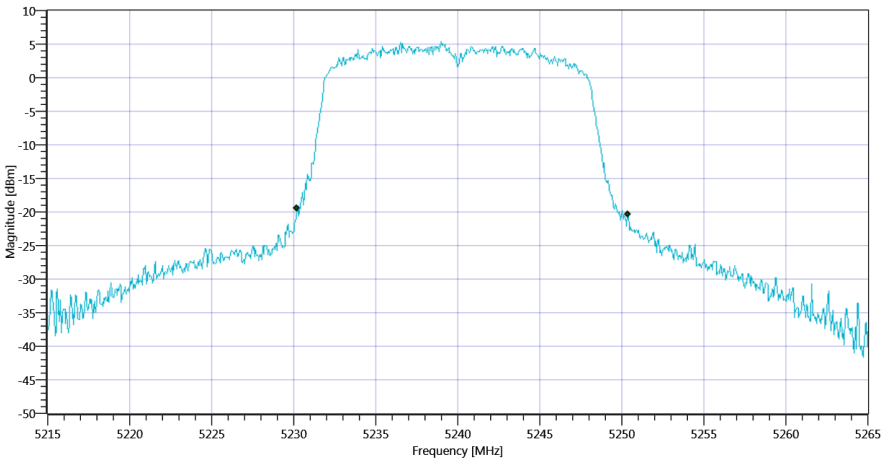


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 99PCT_06112020_085115.png

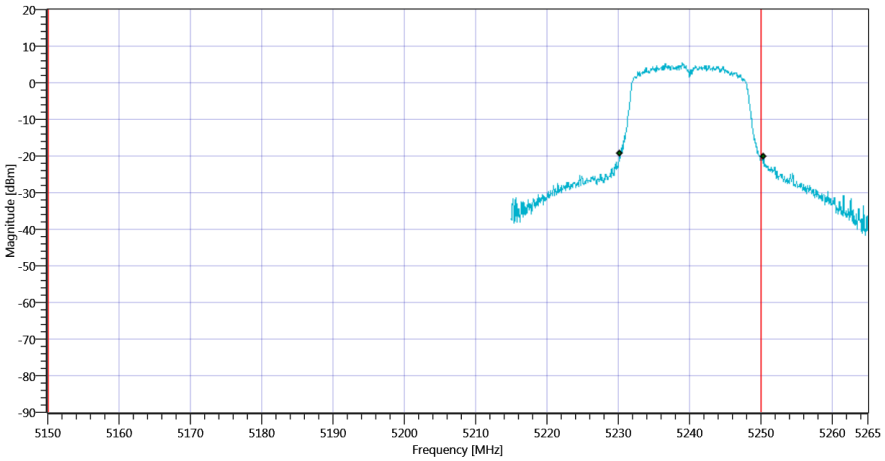


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_06112020_085118.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.2	MHz	INFO
T1 26dB	5150.000000	---	5230.2000	MHz	PASS
T2 26dB	---	5250.000000	5250.4000	MHz	DFS required



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1 26dB_06112020_085123.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-1_06112020_085127.png

TEST FINISHED		
General Verdict	06.11.2020 08:51:27 / RT: 35 s	PASS

28. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A

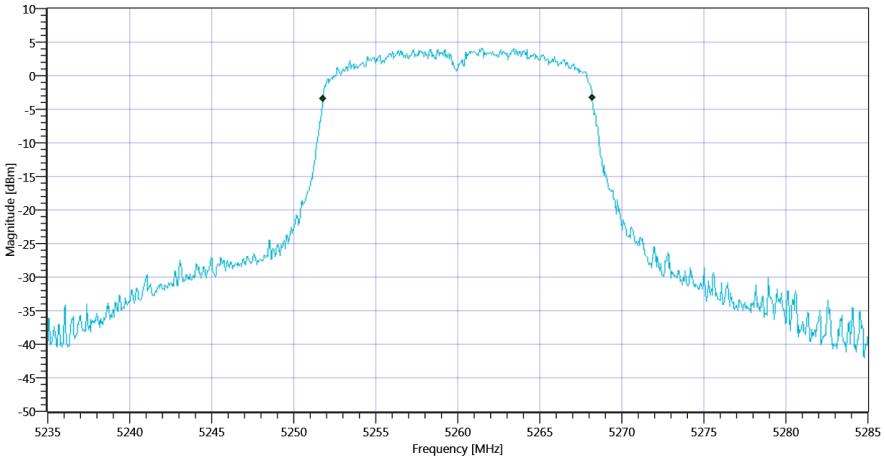
Test References	
TC Start	06.11.2020 08:54:10
Ambit Temp [°C] | Humidity [rel%]	24.0 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

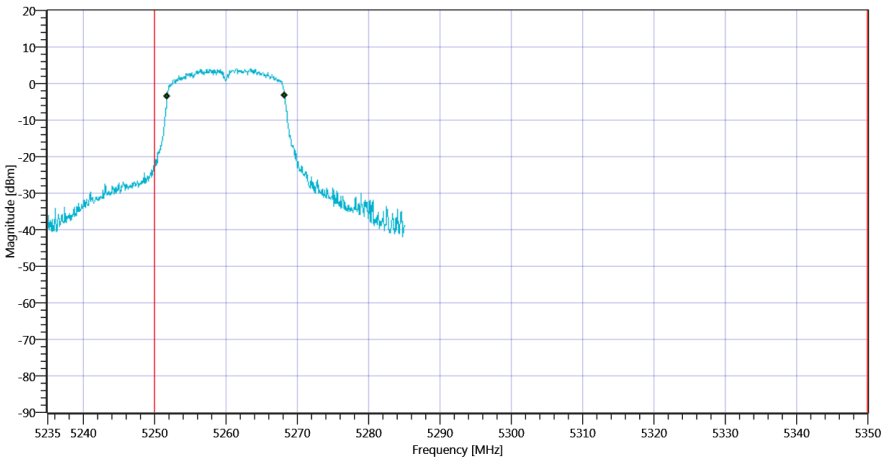
Test at TX 5260 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.03 | 18.88 | 15
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%	---	---	16.384	MHz	INFO
T1 99%	5250.000000	---	5251.8082	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5268.1918	MHz	PASS

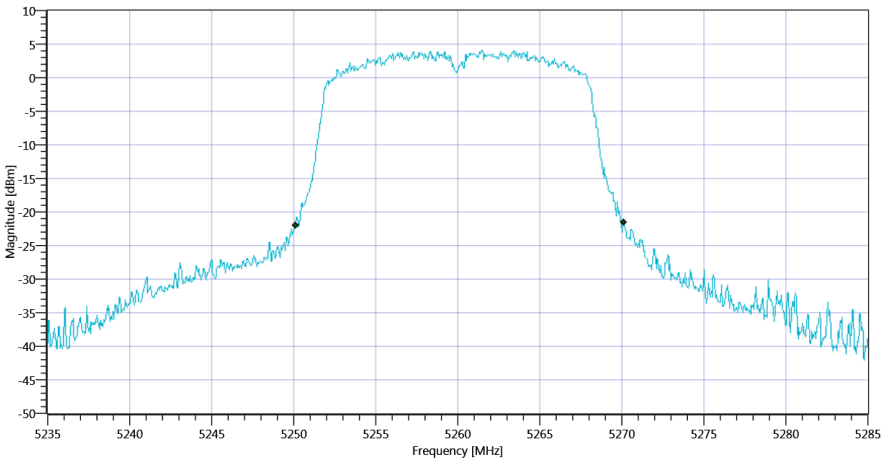


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_06112020_085433.png

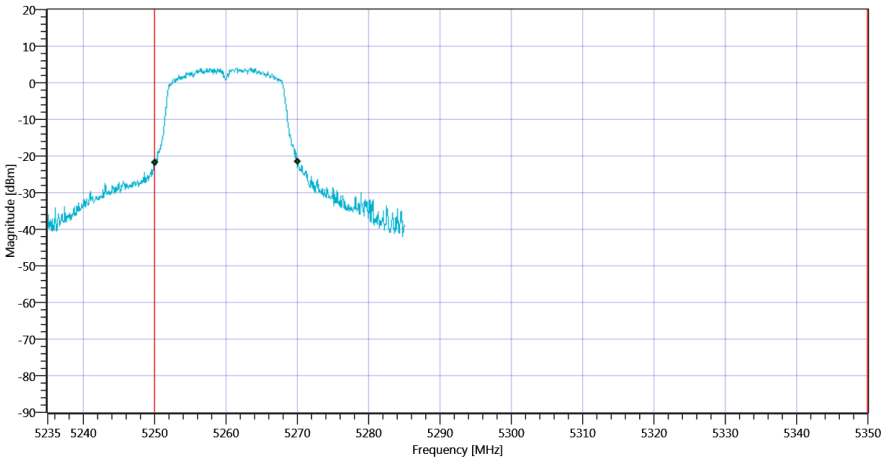


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_06112020_085437.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20	MHz	INFO
T1 26dB	5250.000000	---	5250.1000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5270.1000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_06112020_085441.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_06112020_085445.png

TEST FINISHED		
General Verdict	06.11.2020 08:54:46 / RT: 35 s	PASS

29. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A

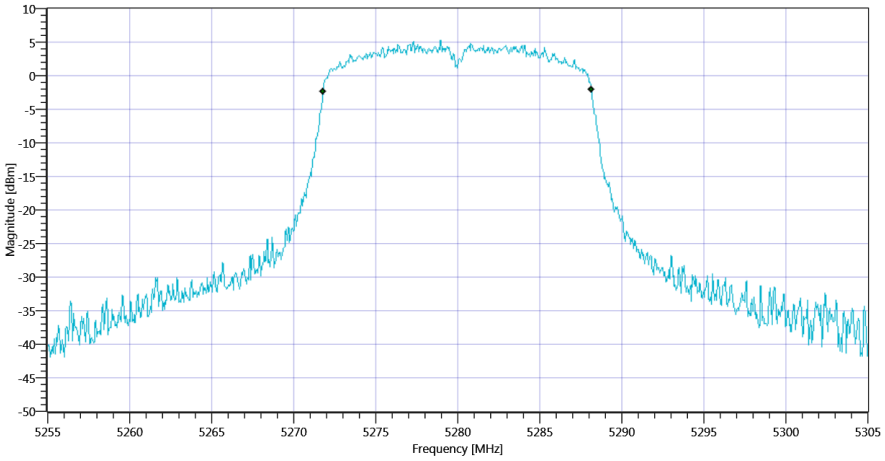
Test References	
TC Start	06.11.2020 08:57:28
Ambit Temp [°C] | Humidity [rel%]	24.0 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	True | Freq [MHz] 5280
Frequency high to test	False | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

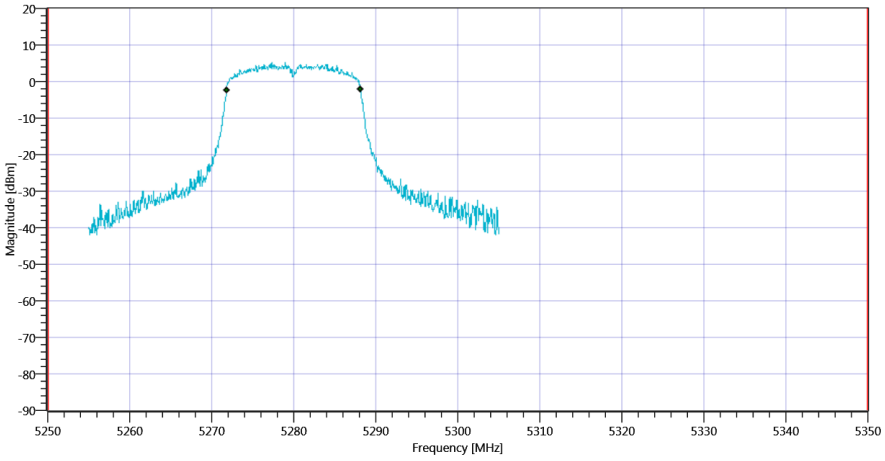
Test at TX 5280 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.81 | 18.75 | 15
Start [MHz] | Stop [MHz]	5255.000 | 5305.000
RBW [MHz] | VBW [MHz]	0.300000 | 1.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 2500 | 1001 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.334	MHz	INFO
T1 99%	5250.000000	---	5271.8082	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5288.1419	MHz	PASS

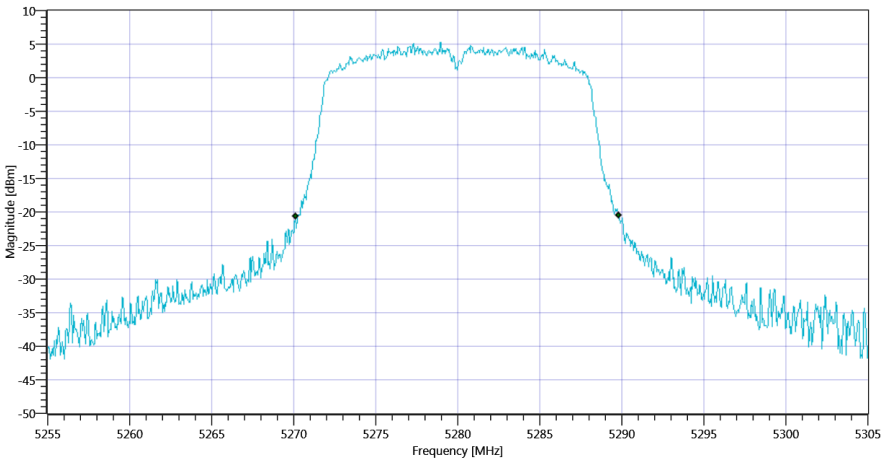


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 99PCT_06112020_085753.png

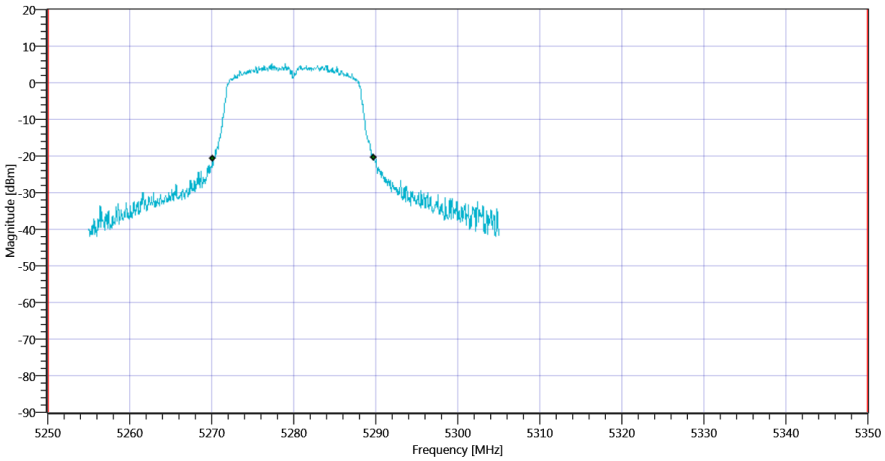


Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_06112020_085756.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	19.7	MHz	INFO
T1 26dB	5250.000000	---	5270.1000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5289.8000	MHz	PASS



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A 26dB_06112020_085801.png



Plot_FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A_06112020_085805.png

TEST FINISHED		
General Verdict	06.11.2020 08:58:05 / RT: 36 s	PASS

30. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx a mode U-NII-2A

Test References	
TC Start	06.11.2020 09:00:49
Ambit Temp [°C] | Humidity [rel%]	24.1 | 27
System Version	1.0.1.1
Test Specification	FCC Part 15.407 & ISET RSS-GEN
Test Method	26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN
Class / TC Version	TC_VM_FCC15407_Bandwidths_V01 Version: 0.0.1
My Description	FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5260
Frequency mid to test	False | Freq [MHz] 5280
Frequency high to test	True | Freq [MHz] 5320
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60