

Measurement Results

1-0397/20-02-14_log4_conducted

[Test logging](#)

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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

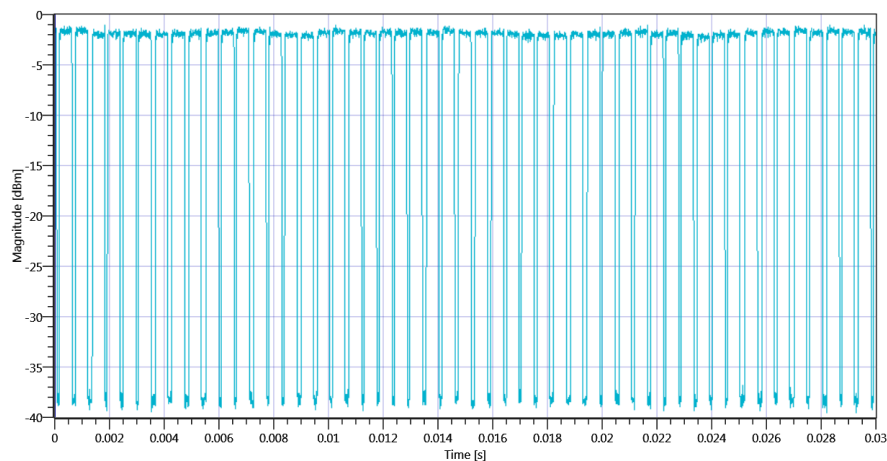
1. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1

Test References	
TC Start	06.11.2020 11:21:35
Ambit Temp [°C] Humidity [rel%]	25.1 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 ac-VHT80 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5210
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

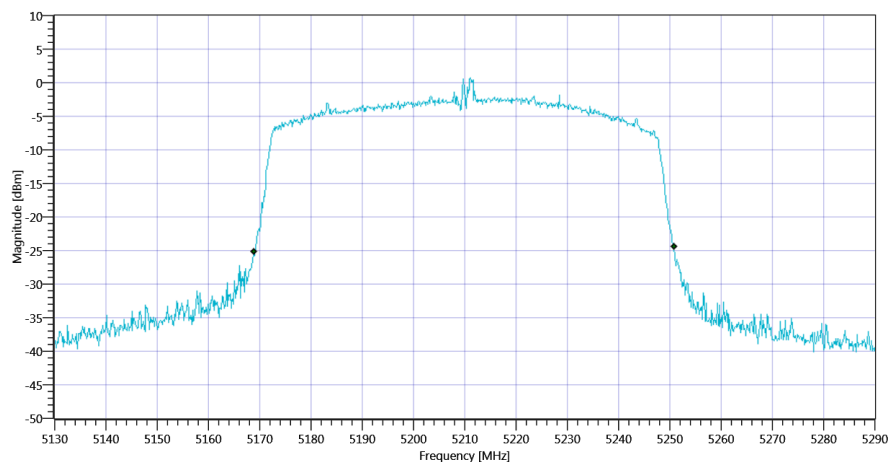
Test at TX 5210 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:51					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.702	---	INFO
Duty Cycle min	---	---	1.537	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1 5210 MHz - DutyCycle_06112020_112152.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.92	MHz	INFO
T1 26dB	---	---	5168.8800	MHz	INFO
T2 26dB	---	---	5250.8000	MHz	INFO

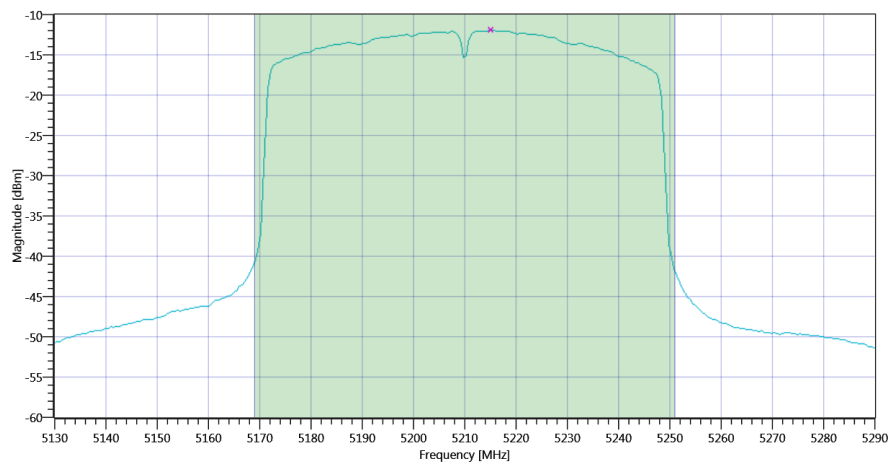


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1 BW_06112020_112206.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.78 19.07 5
Start [MHz] Stop [MHz]	5130.000 5290.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.1	dBm	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	6.64	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.13	6.64	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1 Max OP and PSD_06112020_112246.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-11.98	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Power Spectral Density DC corrected	---	11	-10.44	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 11:22:48 / RT: 72 s	PASS

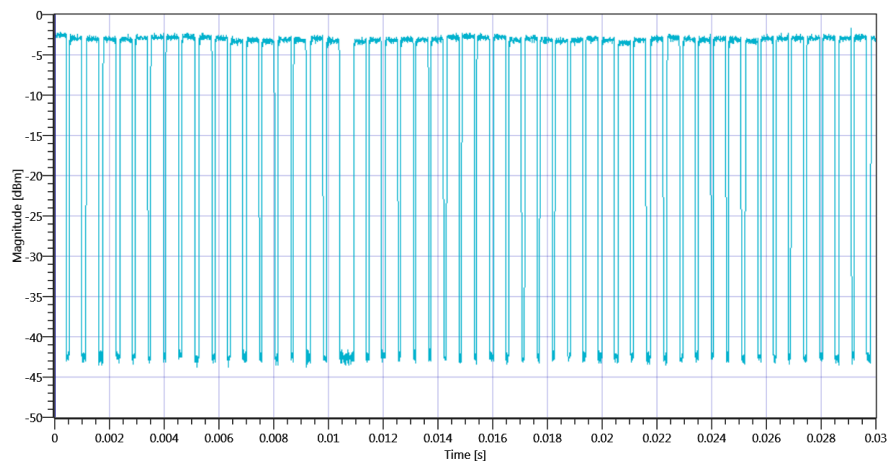
2. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A

Test References	
TC Start	06.11.2020 11:54:33
Ambit Temp [°C] Humidity [rel%]	24.7 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 ac-VHT80 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5290
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

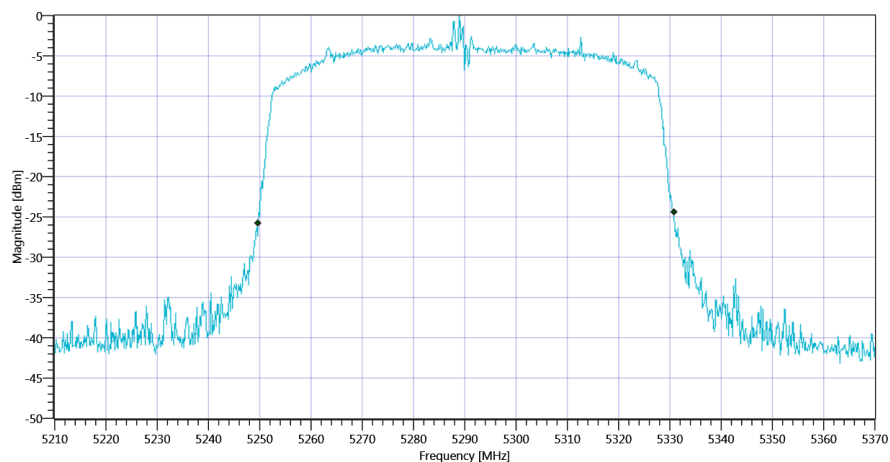
Test at TX 5290 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.455	---	INFO
Duty Cycle min	---	---	3.42	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.54	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A 5290 MHz - DutyCycle_06112020_115449.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.12	MHz	INFO
T1 26dB	---	---	5249.6800	MHz	INFO
T2 26dB	---	---	5330.8000	MHz	INFO

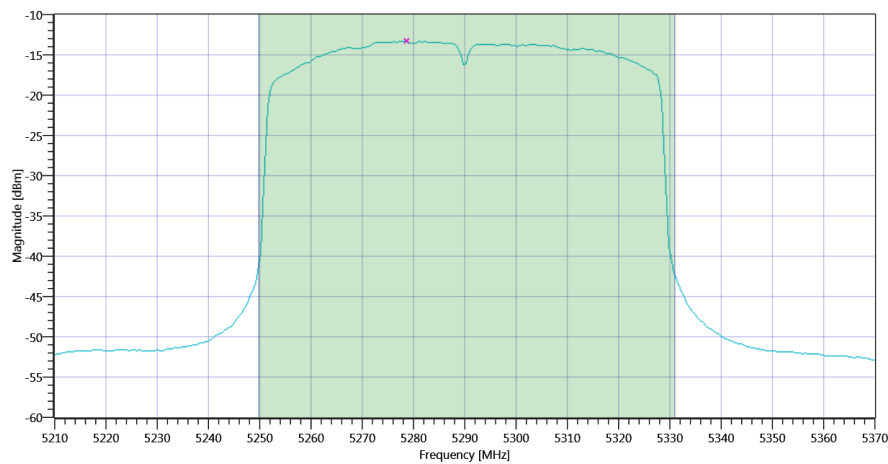


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A BW_06112020_115503.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.08 18.69 5
Start [MHz] Stop [MHz]	5210.000 5370.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.08	dBm	INFO
Duty Cycle Correction	---	---	3.42	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	7.5	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.09	7.5	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A Max OP and PSD_06112020_115544.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-13.34	dBm/1MHz	INFO
Duty Cycle Correction	---	---	3.42	dB	INFO
Power Spectral Density DC corrected	---	11	-9.92	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 11:55:46 / RT: 73 s	PASS

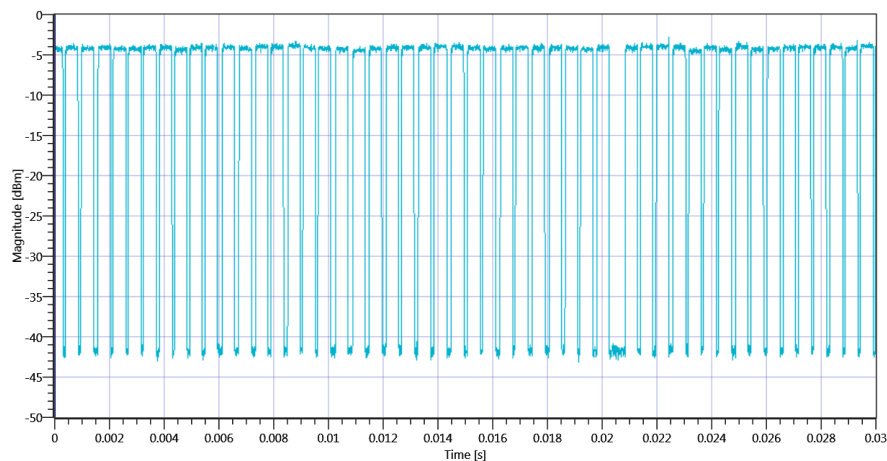
3. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	06.11.2020 11:30:53
Ambit Temp [°C] Humidity [rel%]	25.1 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 ac-VHT80 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 5530
Frequency mid to test	False Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

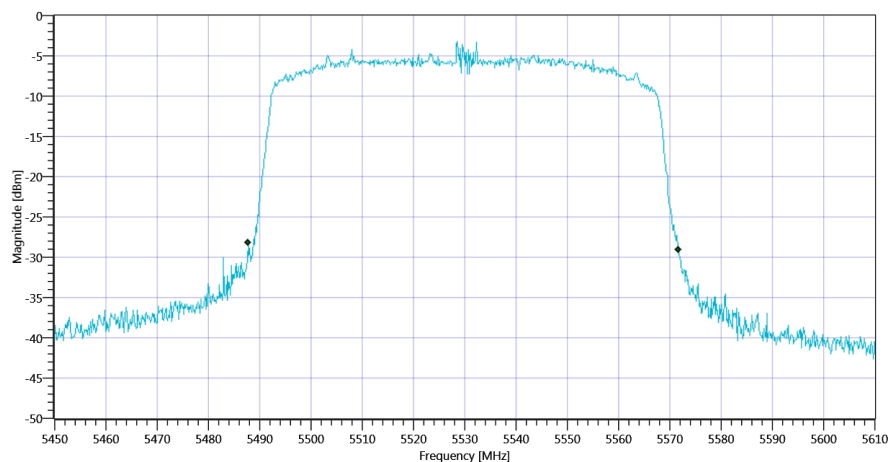
Test at TX 5530 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.432	---	INFO
Duty Cycle min	---	---	3.645	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.592	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C 5530 MHz - DutyCycle_06112020_113109.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	83.84	MHz	INFO
T1 26dB	---	---	5487.7600	MHz	INFO
T2 26dB	---	---	5571.6000	MHz	INFO



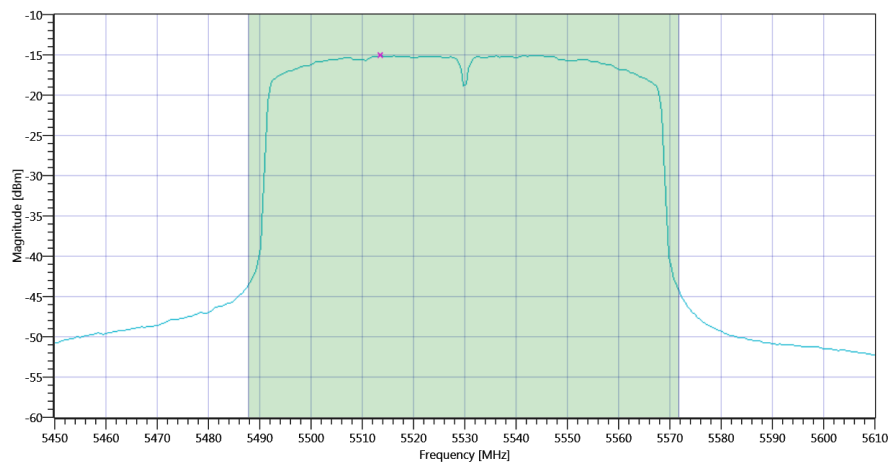
Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C BW_06112020_113121.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.66 19.05 5
Start [MHz] Stop [MHz]	5450.000 5610.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	2.71	dBm	INFO
Duty Cycle Correction	---	---	3.64	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	6.35	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.23	6.35	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C Max OP and PSD_06112020_113201.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-15.11	dBm/1MHz	INFO
Duty Cycle Correction	---	---	3.64	dB	INFO
Power Spectral Density DC corrected	---	11	-11.47	dBm/1MHz	PASS

TEST FINISHED

General Verdict	06.11.2020 11:32:03 / RT: 70 s	PASS
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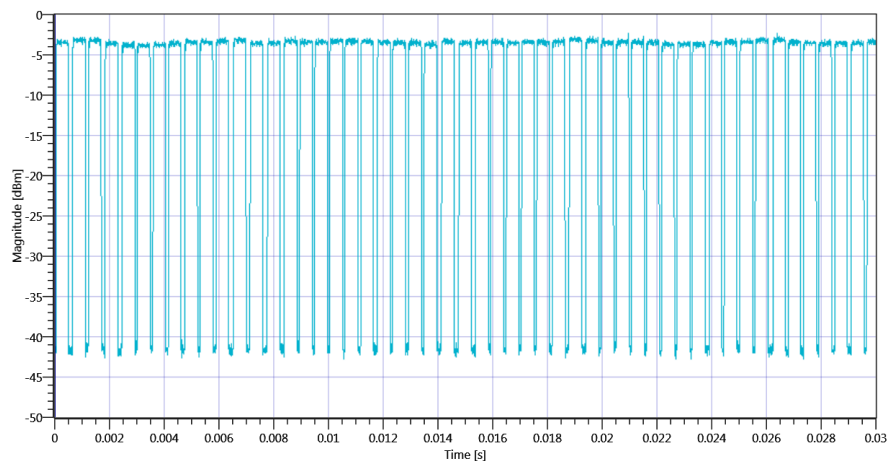
4. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	06.11.2020 11:35:27
Ambit Temp [°C] Humidity [rel%]	25.1 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 ac-VHT80 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 5530
Frequency mid to test	True Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

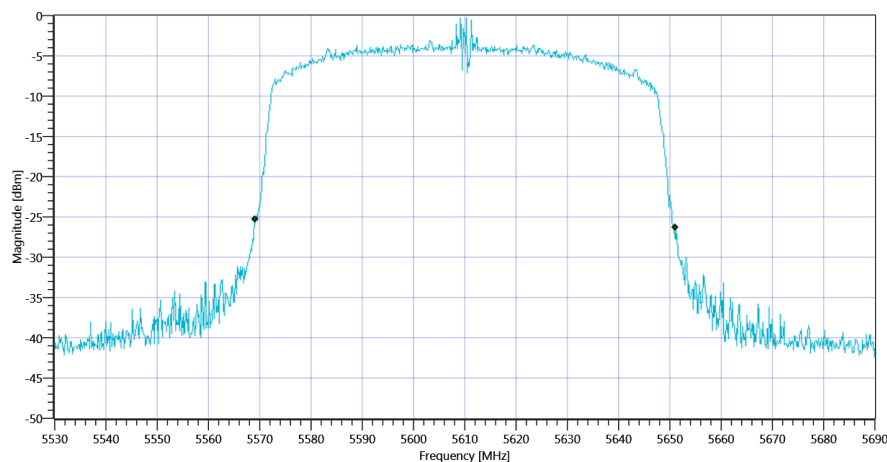
Test at TX 5610 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.706	---	INFO
Duty Cycle min	---	---	1.512	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C 5610 MHz - DutyCycle_06112020_113544.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	82.08	MHz	INFO
T1 26dB	---	---	5569.0400	MHz	INFO
T2 26dB	---	---	5651.1200	MHz	INFO

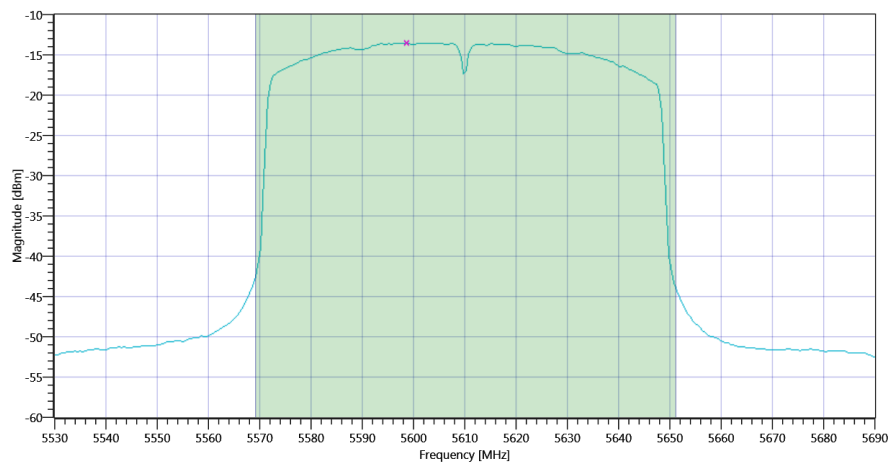


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C BW_06112020_113556.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.72 19.11 5
Start [MHz] Stop [MHz]	5530.000 5690.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.89	dBm	INFO
Duty Cycle Correction	---	---	1.51	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	5.4	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.14	5.4	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C Max OP and PSD_06112020_113636.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-13.54	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.51	dB	INFO
Power Spectral Density DC corrected	---	11	-12.03	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 11:36:38 / RT: 71 s	PASS

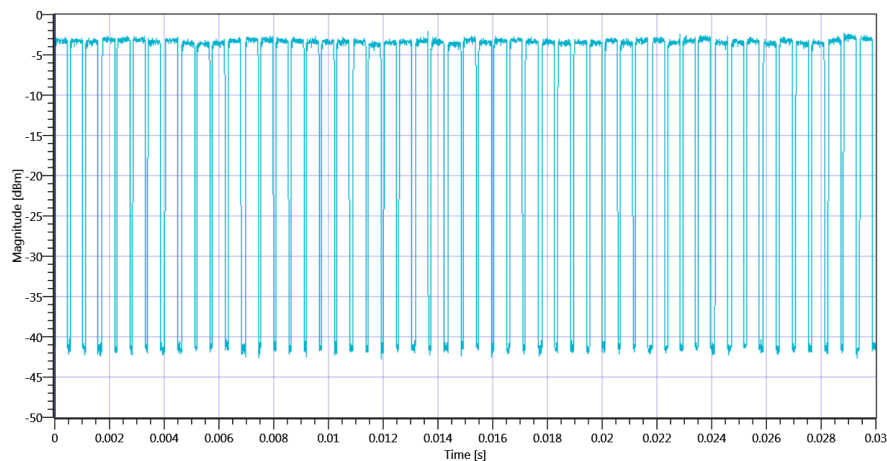
5. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3

Test References	
TC Start	06.11.2020 11:40:36
Ambit Temp [°C] Humidity [rel%]	25.1 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 ac-VHT80 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

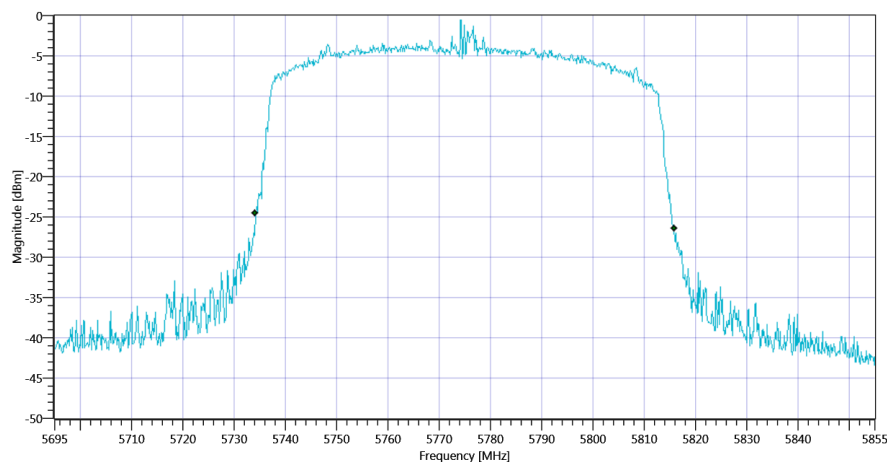
Test at TX 5775 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.702	---	INFO
Duty Cycle min	---	---	1.537	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.187	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 5775 MHz - DutyCycle_06112020_114053.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.6	MHz	INFO
T1 26dB	---	---	5734.2000	MHz	INFO
T2 26dB	---	---	5815.8000	MHz	INFO

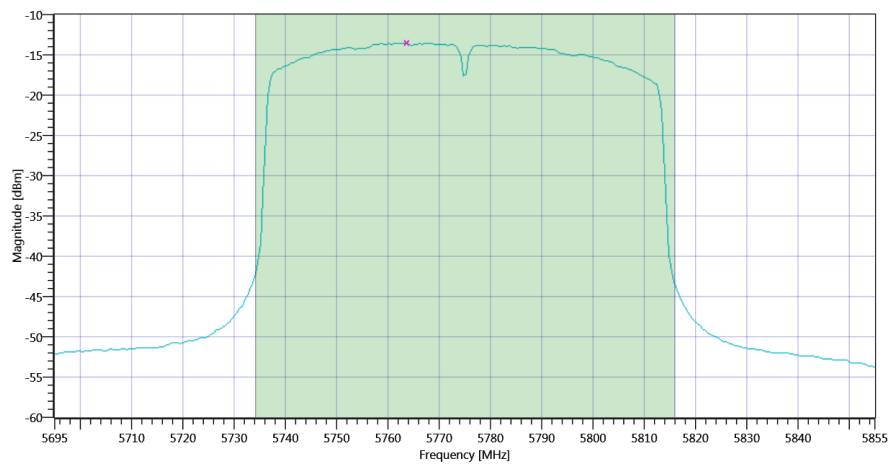


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 BW_06112020_114105.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.34 18.74 5
Start [MHz] Stop [MHz]	5695.000 5855.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.84	dBm	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	5.38	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.12	5.38	dBm	not applicable

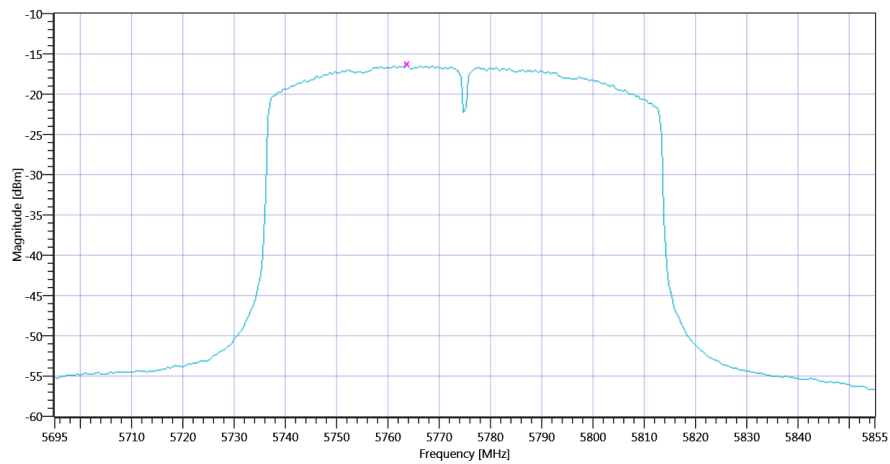


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 Max OP and PSD_06112020_114145.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.34 18.74 5
Start [MHz] Stop [MHz]	5695.000 5855.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-16.42	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Power Spectral Density DC corrected	---	30	-14.88	dBm/0.5MHz	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 PSD UNII-3_06112020_114224.png

TEST FINISHED

General Verdict

06.11.2020 11:42:24 / RT: 108 s

PASS

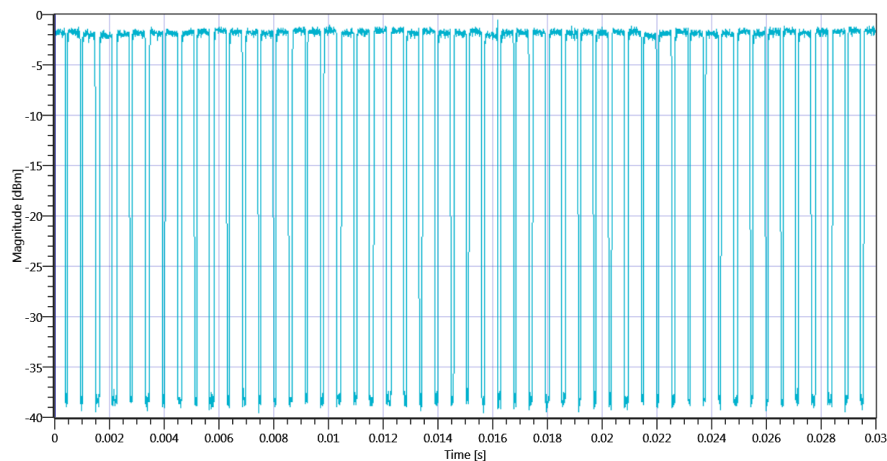
6. ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1

Test References	
TC Start	06.11.2020 11:22:52
Ambit Temp [°C] Humidity [rel%]	25.1 26
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 ac-VHT80 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5210
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

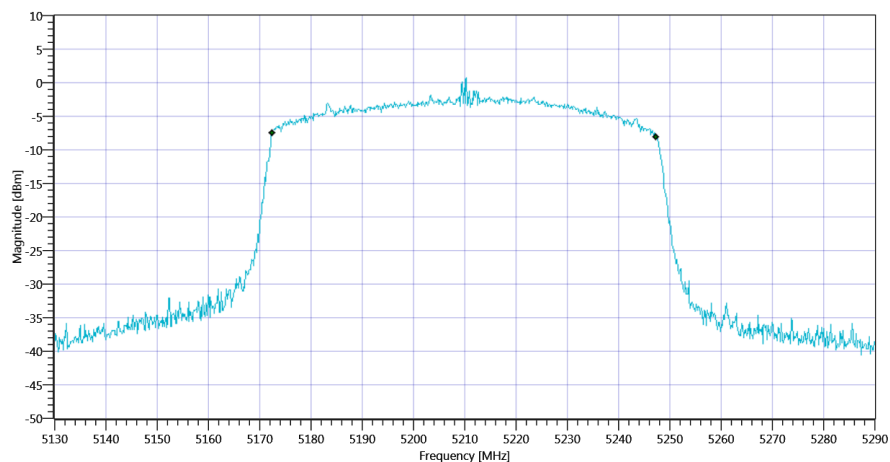
Test at TX 5210 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.702	---	INFO
Duty Cycle min	---	---	1.537	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1 5210 MHz - DutyCycle_06112020_112309.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	74.965	MHz	INFO
T1 99%	---	---	5172.4376	MHz	INFO
T2 99%	---	---	5247.4026	MHz	INFO



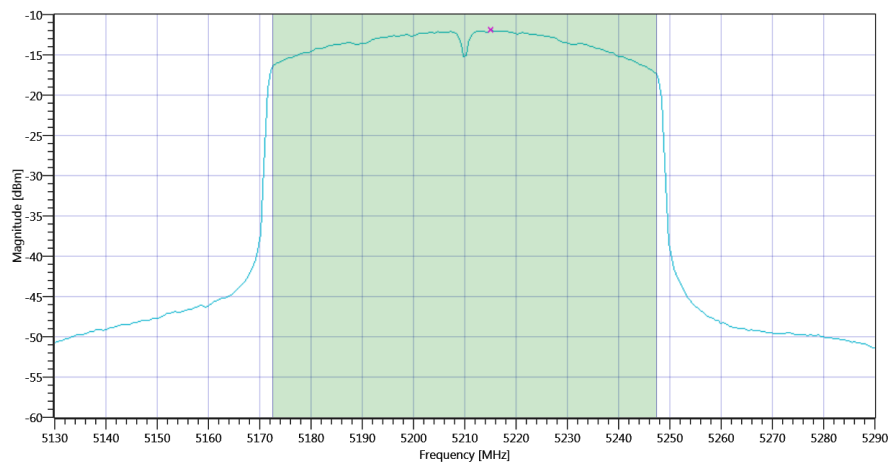
Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1 BW_06112020_112323.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.15 19.07 5
Start [MHz] Stop [MHz]	5130.000 5290.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.05	dBm	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	6.59	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	29.75	6.59	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-1 Max OP and PSD_06112020_112404.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-12	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Power Spectral Density DC corrected	---	11	-10.46	dBm/1MHz	PASS

TEST FINISHED

General Verdict 06.11.2020 11:24:06 / RT: 73 s

PASS

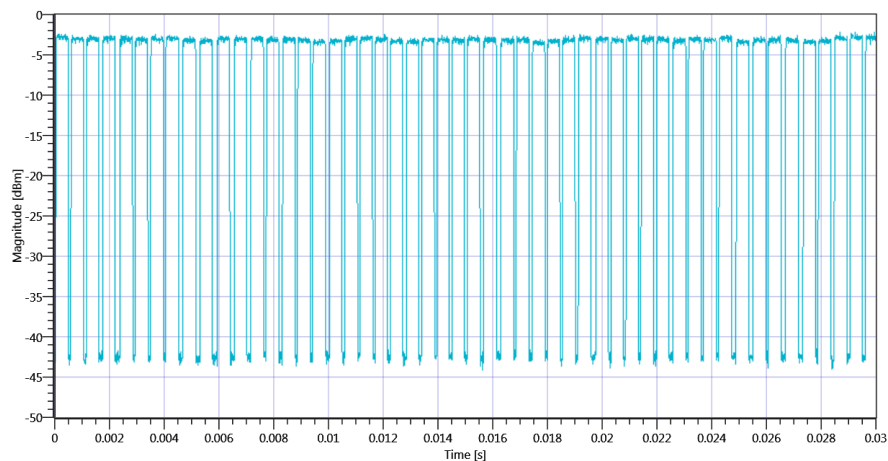
7. ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A

Test References	
TC Start	06.11.2020 11:55:50
Ambit Temp [°C] Humidity [rel%]	24.7 26
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 ac-VHT80 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5290
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

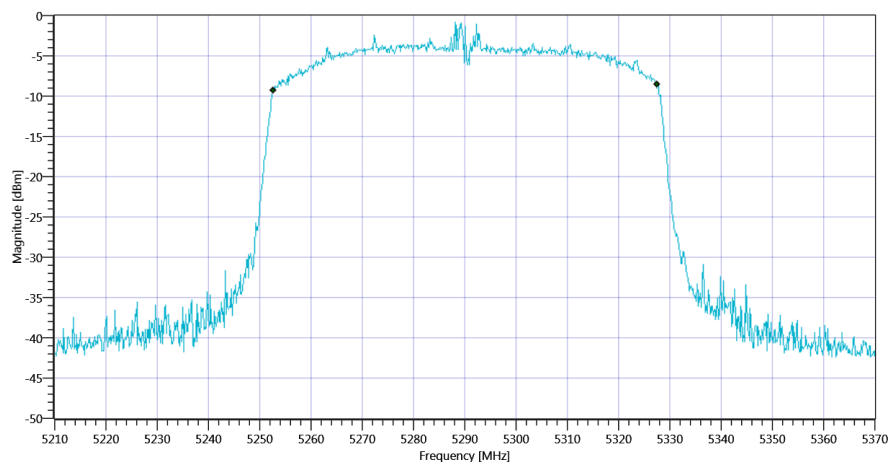
Test at TX 5290 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.702	---	INFO
Duty Cycle min	---	---	1.537	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A 5290 MHz - DutyCycle_06112020_115607.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	74.805	MHz	INFO
T1 99%	---	---	5252.7572	MHz	INFO
T2 99%	---	---	5327.5624	MHz	INFO



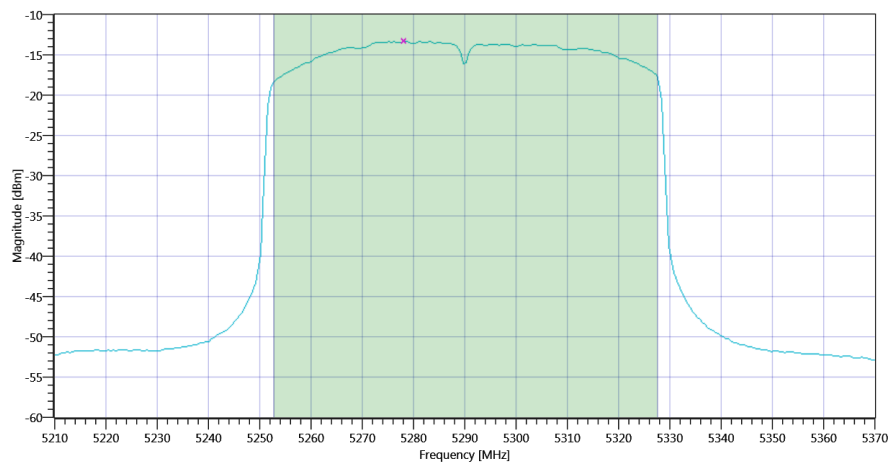
Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A BW_06112020_115621.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.16 18.69 5
Start [MHz] Stop [MHz]	5210.000 5370.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	4.04	dBm	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	5.58	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	29.74	5.58	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2A Max OP and PSD_06112020_115701.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-13.33	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Power Spectral Density DC corrected	---	11	-11.79	dBm/1MHz	PASS

TEST FINISHED

General Verdict	06.11.2020 11:57:03 / RT: 73 s	PASS
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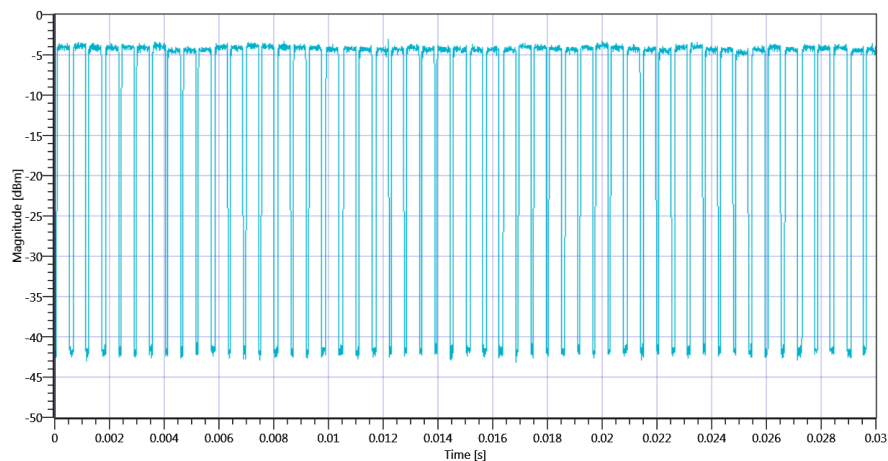
8. ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	06.11.2020 11:32:08
Ambit Temp [°C] Humidity [rel%]	25.1 26
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 ac-VHT80 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 5530
Frequency mid to test	False Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

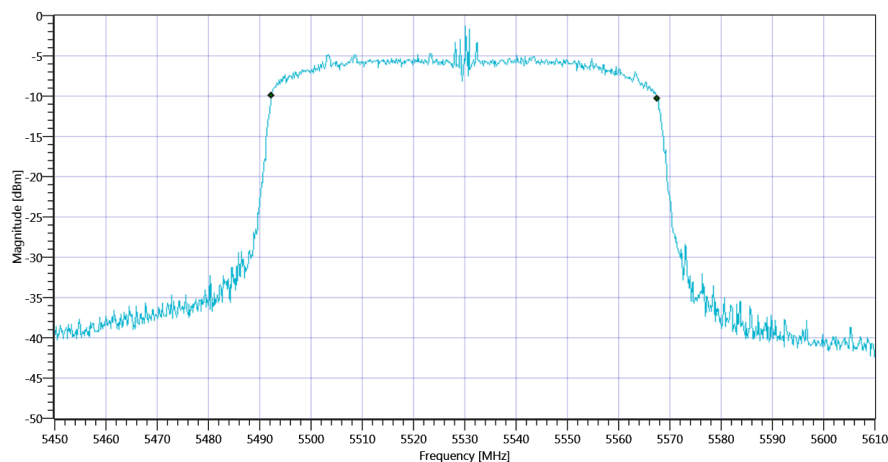
Test at TX 5530 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.706	---	INFO
Duty Cycle min	---	---	1.512	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C 5530 MHz - DutyCycle_06112020_113225.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	75.285	MHz	INFO
T1 99%	---	---	5492.2777	MHz	INFO
T2 99%	---	---	5567.5624	MHz	INFO



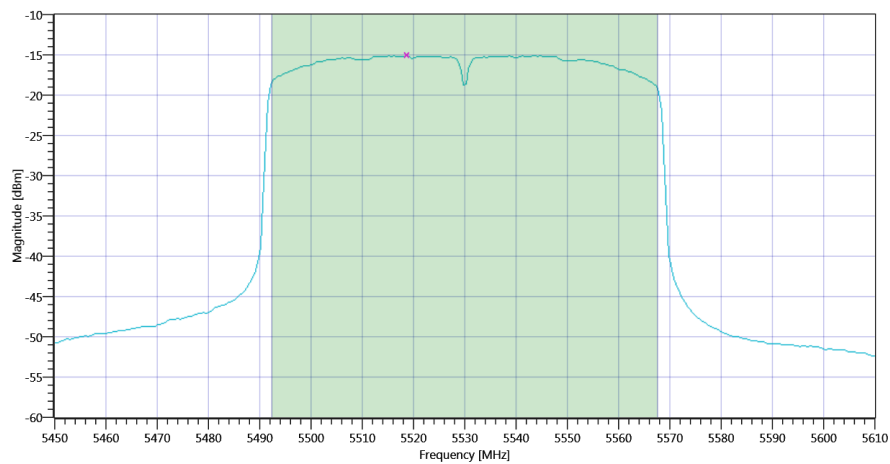
Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C BW_06112020_113237.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.94 19.05 5
Start [MHz] Stop [MHz]	5450.000 5610.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	2.66	dBm	INFO
Duty Cycle Correction	---	---	1.51	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	4.17	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	29.77	4.17	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C Max OP and PSD_06112020_113317.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-15.11	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.51	dB	INFO
Power Spectral Density DC corrected	---	11	-13.6	dBm/1MHz	PASS

TEST FINISHED

General Verdict	06.11.2020 11:33:19 / RT: 71 s	PASS
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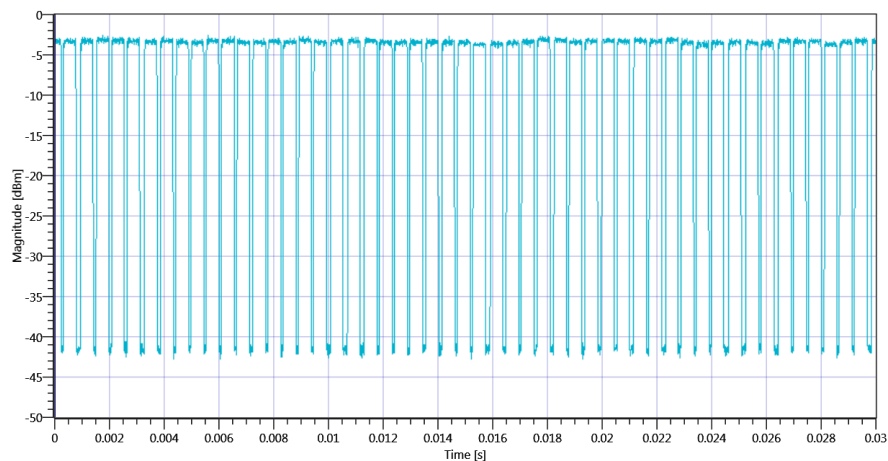
9. ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	06.11.2020 11:36:42
Ambit Temp [°C] Humidity [rel%]	25.1 26
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 ac-VHT80 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 5530
Frequency mid to test	True Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

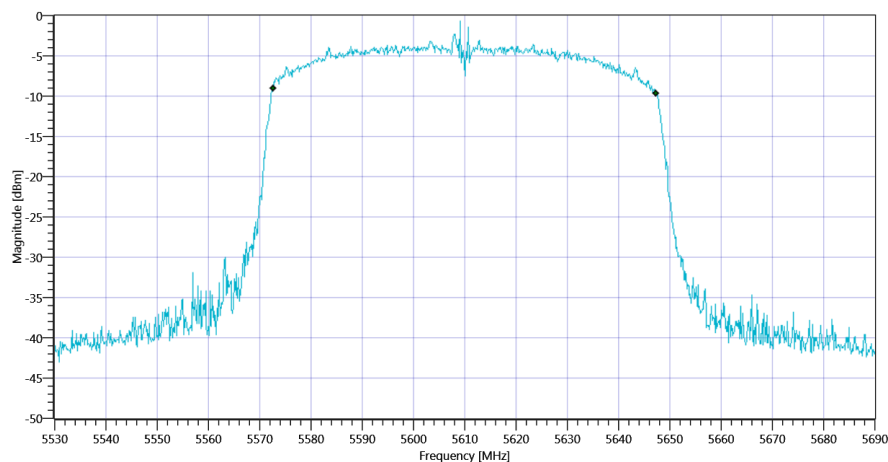
Test at TX 5610 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:51					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.702	---	INFO
Duty Cycle min	---	---	1.537	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C 5610 MHz - DutyCycle_06112020_113659.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	74.805	MHz	INFO
T1 99%	---	---	5572.5974	MHz	INFO
T2 99%	---	---	5647.4026	MHz	INFO

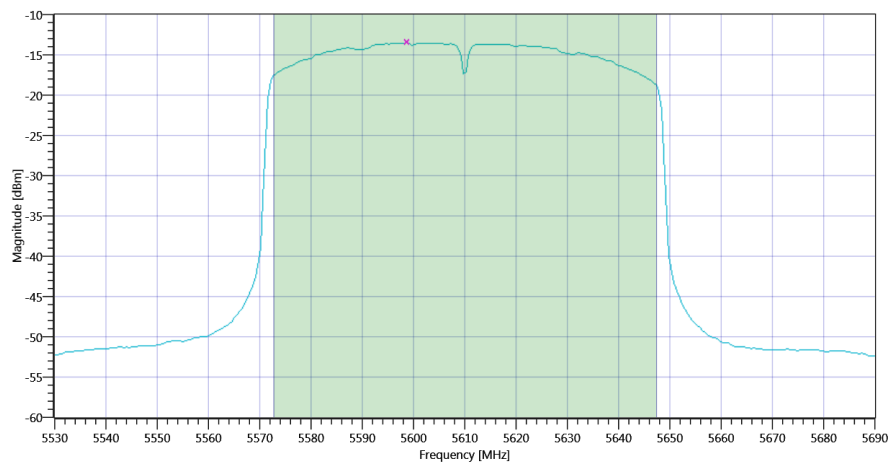


Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C BW_06112020_113711.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.99 19.11 5
Start [MHz] Stop [MHz]	5530.000 5690.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.84	dBm	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	5.38	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	29.74	5.38	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C Max OP and PSD_06112020_113752.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-13.5	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Power Spectral Density DC corrected	---	11	-11.96	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	06.11.2020 11:37:54 / RT: 71 s	PASS

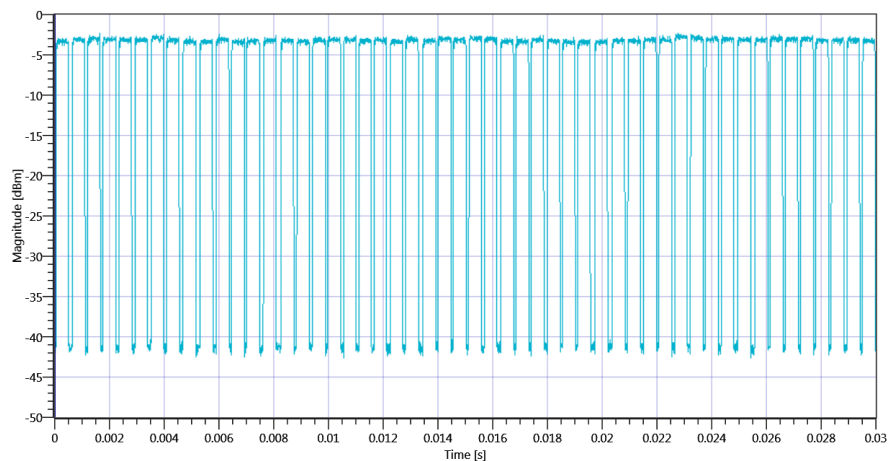
10. ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3

Test References	
TC Start	06.11.2020 11:42:29
Ambit Temp [°C] Humidity [rel%]	25.1 26
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 ac-VHT80 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

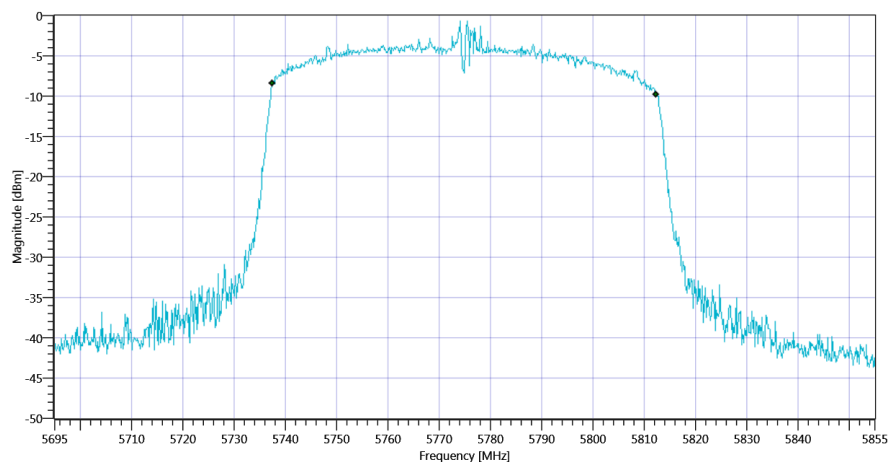
Test at TX 5775 MHz

Duty Cycle evaluation					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Result Duty Cycles					
Result Summary					
Number of detected Bursts:50					
Duty Cycle (Burst Ratio) max	---	---	0.811	---	INFO
Duty Cycle max	---	---	0.91	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.702	---	INFO
Duty Cycle min	---	---	1.537	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.105	ms	INFO
Max Gap Length	---	---	0.188	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 5775 MHz - DutyCycle_06112020_114246.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	74.965	MHz	INFO
T1 99%	---	---	5737.4376	MHz	INFO
T2 99%	---	---	5812.4026	MHz	INFO



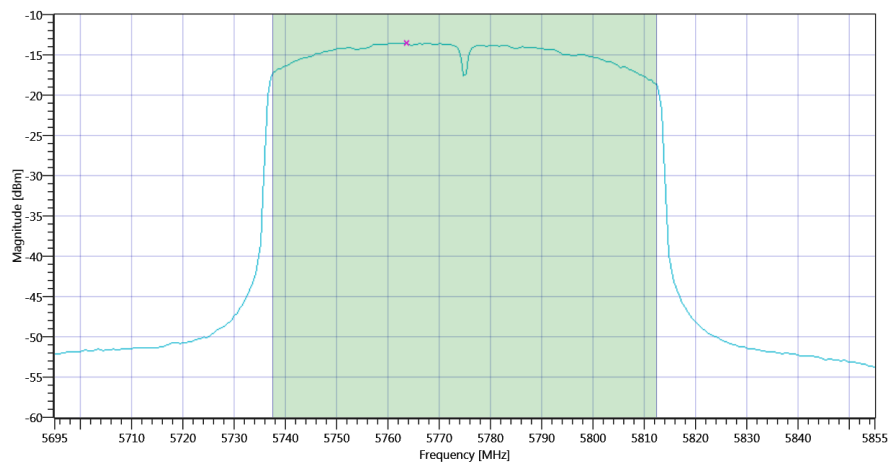
Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 BW_06112020_114258.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.12 18.74 5
Start [MHz] Stop [MHz]	5695.000 5855.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.8	dBm	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	30	5.34	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	29.75	5.34	dBm	not applicable



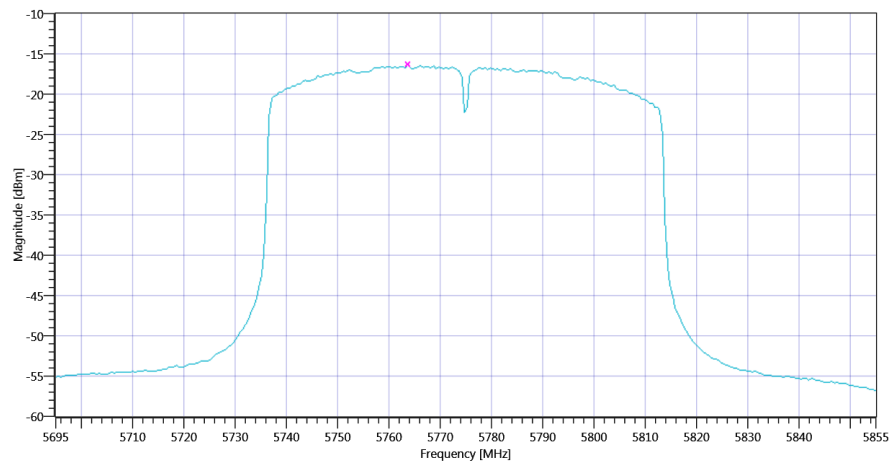
Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 Max OP and PSD_06112020_114339.png

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.12 18.74 5
Start [MHz] Stop [MHz]	5695.000 5855.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 1 320 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-16.42	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	1.54	dB	INFO
Power Spectral Density DC corrected	---	30	-14.88	dBm/0.5MHz	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 PSD UNII-3_06112020_114418.png

TEST FINISHED

General Verdict

06.11.2020 11:44:18 / RT: 109 s

PASS

11. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-1

Test References	
TC Start	06.11.2020 11:24:10
Ambit Temp [°C] Humidity [rel%]	25.1 26
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 ac-VHT80 mode U-NII-1
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-1
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5210
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

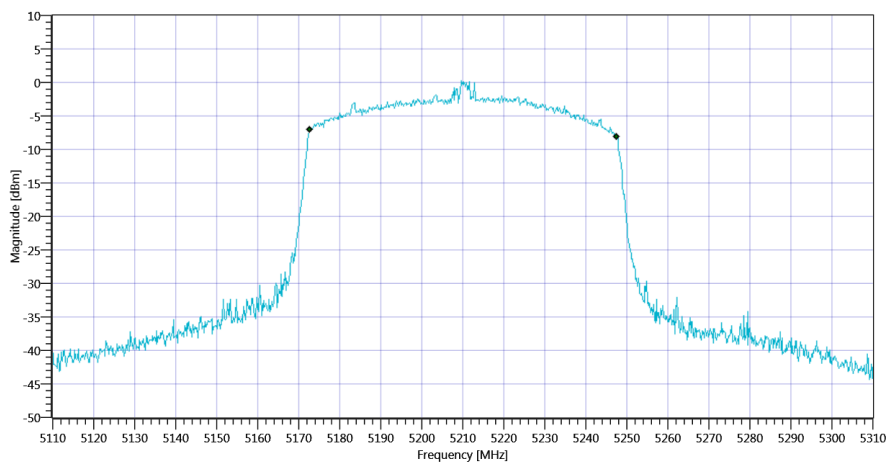
Test at TX 5210 MHz

READ SA SETTINGS:

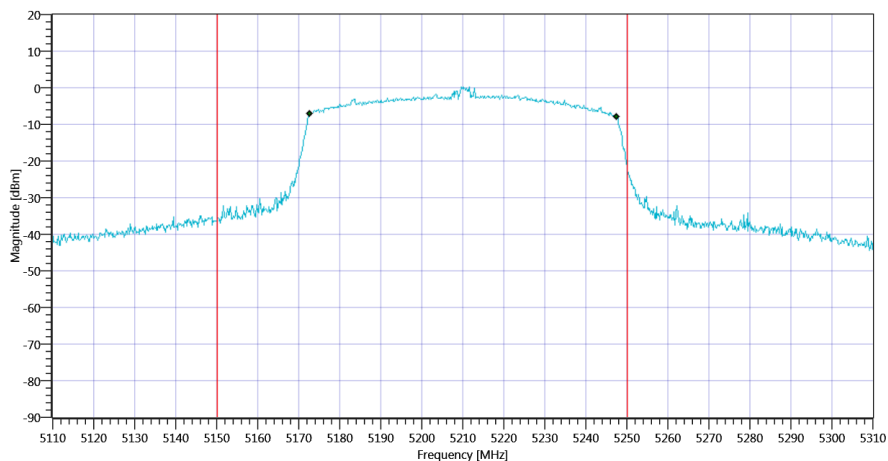
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.12 19.07 5
Start [MHz] Stop [MHz]	5110.000 5310.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	74.925	MHz	INFO
T1 99%	5150.000000	---	5172.6374	MHz	PASS
T2 99%	---	5250.000000	5247.5624	MHz	PASS



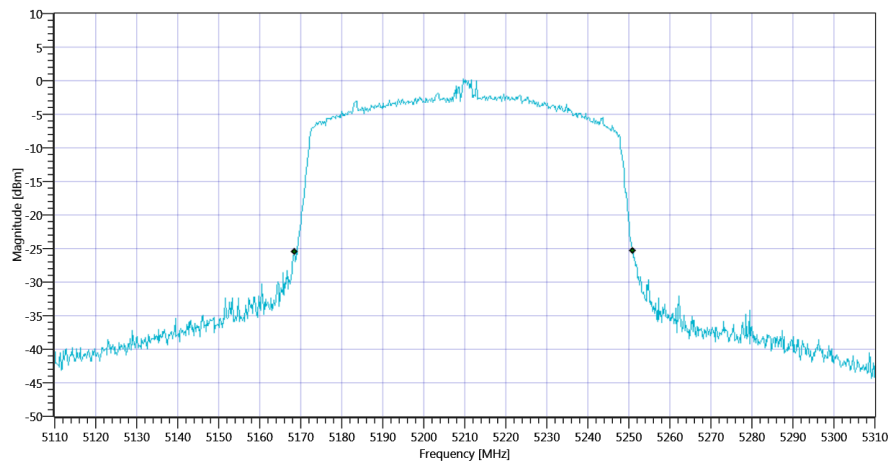
Plot_FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-1 99PCT_06112020_112445.png



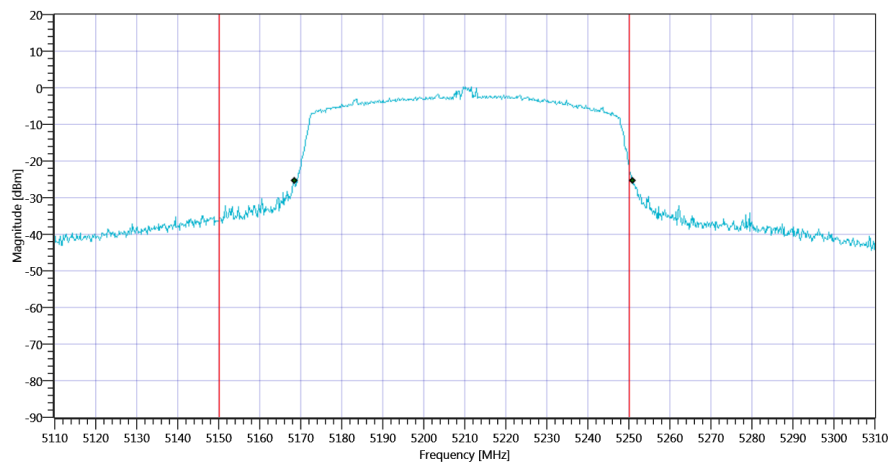
Plot_FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-1_06112020_112449.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	82.6	MHz	INFO
T1 26dB	5150.000000	---	5168.4000	MHz	PASS
T2 26dB	---	5250.000000	5251.0000	MHz	DFS required



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-1 26dB_06112020_112454.png



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-1_06112020_112457.png

TEST FINISHED

General Verdict

06.11.2020 11:24:58 / RT: 47 s

PASS

12. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2A

Test References	
TC Start	06.11.2020 11:57:08
Ambit Temp [°C] Humidity [rel%]	24.7 26
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 ac-VHT80 mode U-NII-2A
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2A
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5290
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

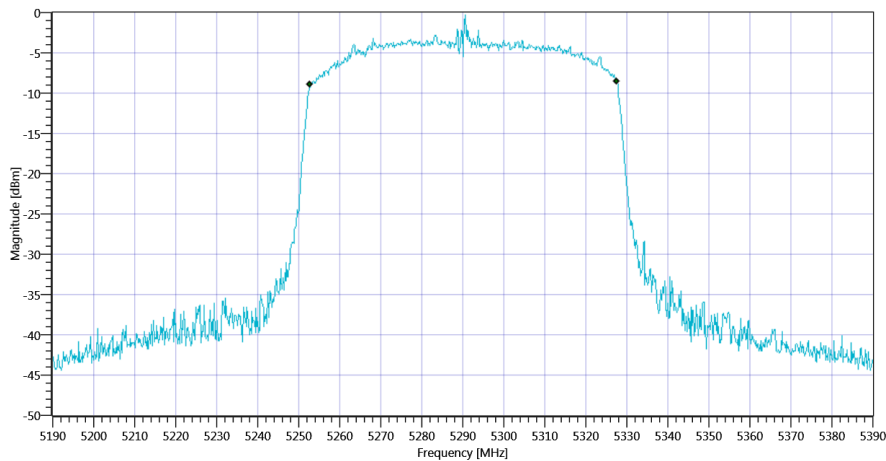
Test at TX 5290 MHz

READ SA SETTINGS:

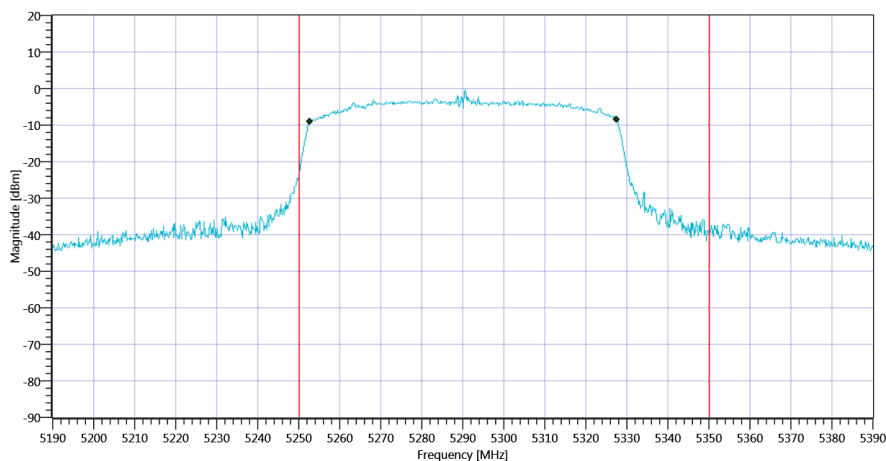
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.28 18.69 5
Start [MHz] Stop [MHz]	5190.000 5390.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	74.725	MHz	INFO
T1 99%	5250.000000	---	5252.8372	MHz	PASS since U-NII-1 is supported
T2 99%	---	5350.000000	5327.5624	MHz	PASS



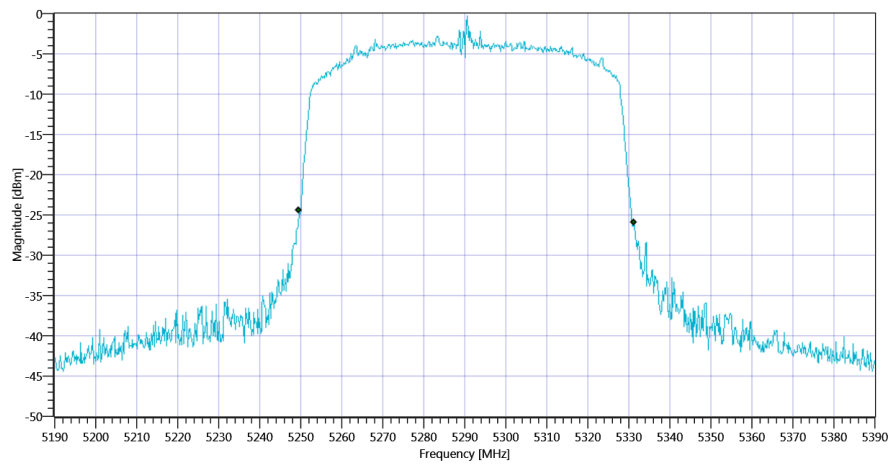
Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2A 99PCT_06112020_115739.png



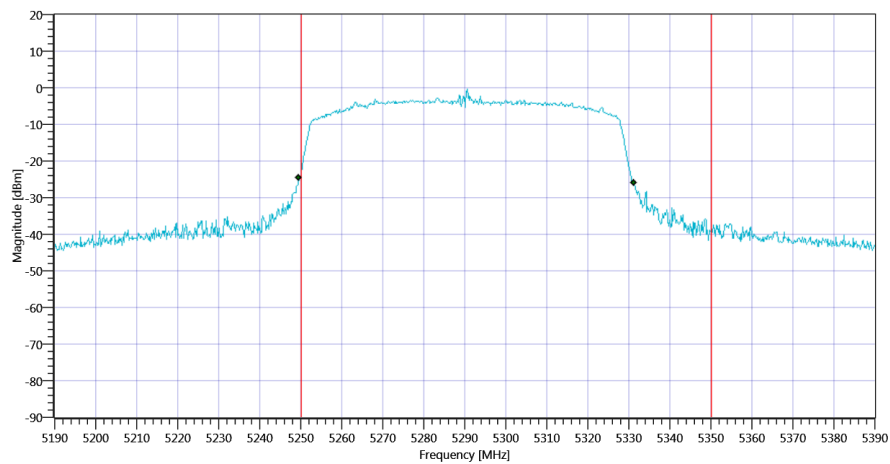
Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2A_06112020_115743.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.6	MHz	INFO
T1 26dB	5250.000000	---	5249.6000	MHz	PASS since U-NII-1 is supported
T2 26dB	---	5350.000000	5331.2000	MHz	PASS



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2A 26dB_06112020_115748.png



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2A_06112020_115751.png

TEST FINISHED

General Verdict

06.11.2020 11:57:52 / RT: 44 s

PASS

13. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	06.11.2020 11:33:24
Ambit Temp [°C] Humidity [rel%]	25.1 26
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 ac-VHT80 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 5530
Frequency mid to test	False Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

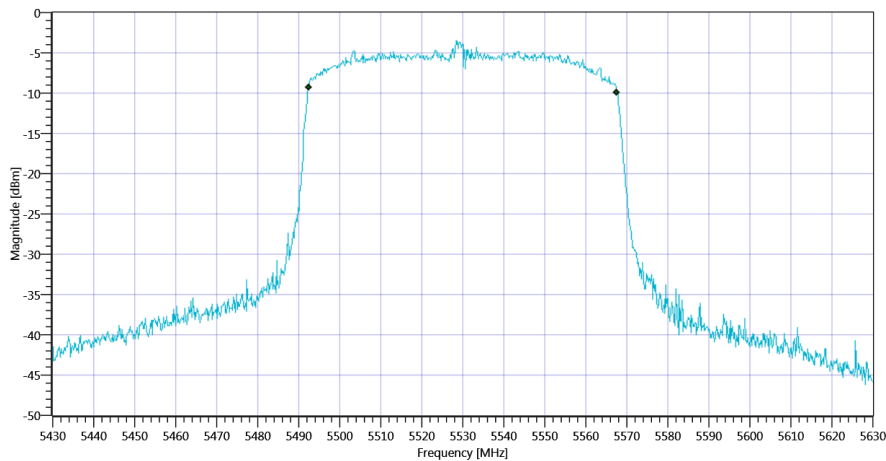
Test at TX 5530 MHz

READ SA SETTINGS:

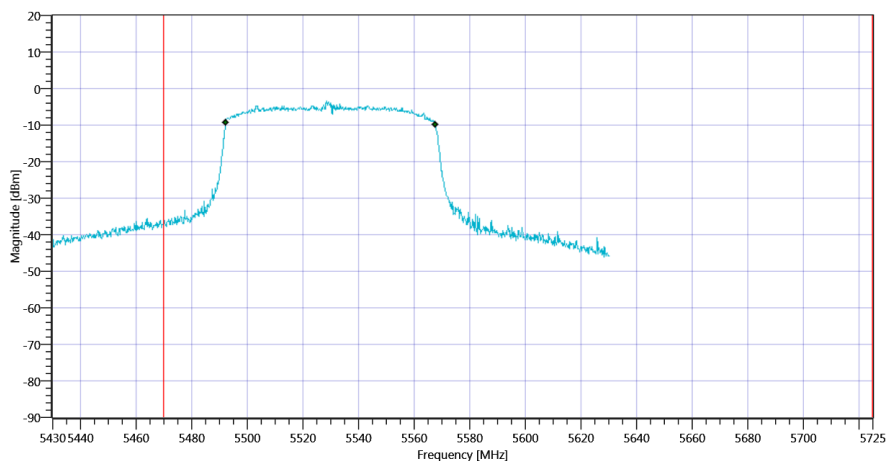
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.36 19.05 0
Start [MHz] Stop [MHz]	5430.000 5630.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	75.125	MHz	INFO
T1 99%	5470.000000	---	5492.4376	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5567.5624	MHz	



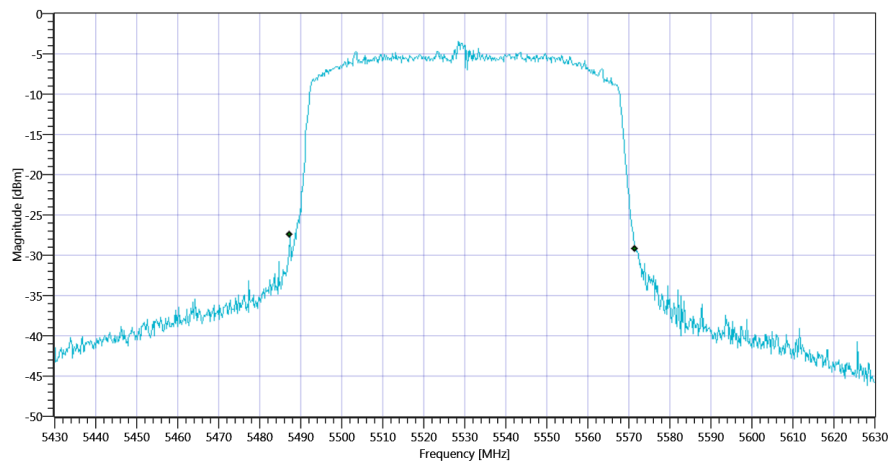
Plot_FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C 99PCT_06112020_113352.png



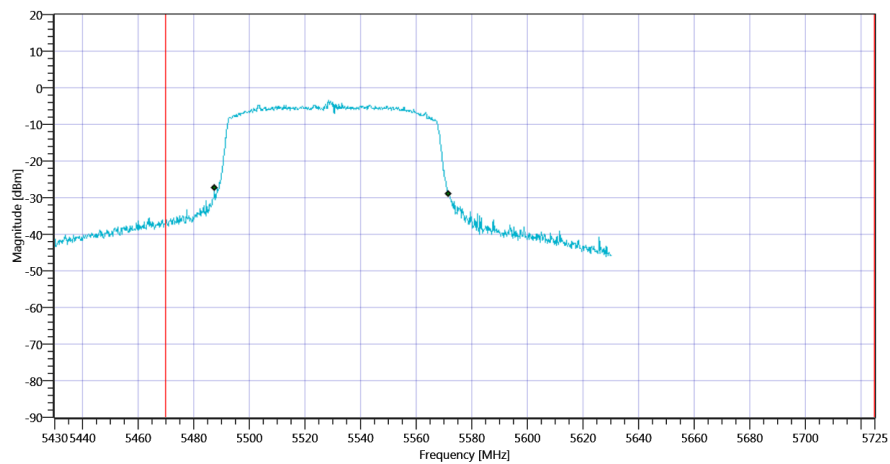
Plot_FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C_06112020_113356.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	84.2	MHz	INFO
T1 26dB	5470.000000	---	5487.4000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5571.6000	MHz	



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C 26dB_06112020_113401.png



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C_06112020_113404.png

TEST FINISHED

General Verdict

06.11.2020 11:34:05 / RT: 40 s

PASS

14. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	06.11.2020 11:37:58
Ambit Temp [°C] Humidity [rel%]	25.1 26
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 ac-VHT80 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 5530
Frequency mid to test	True Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

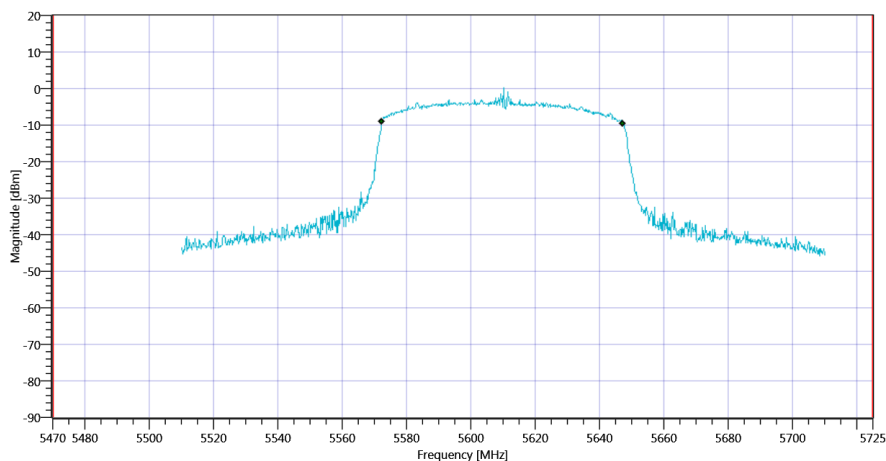
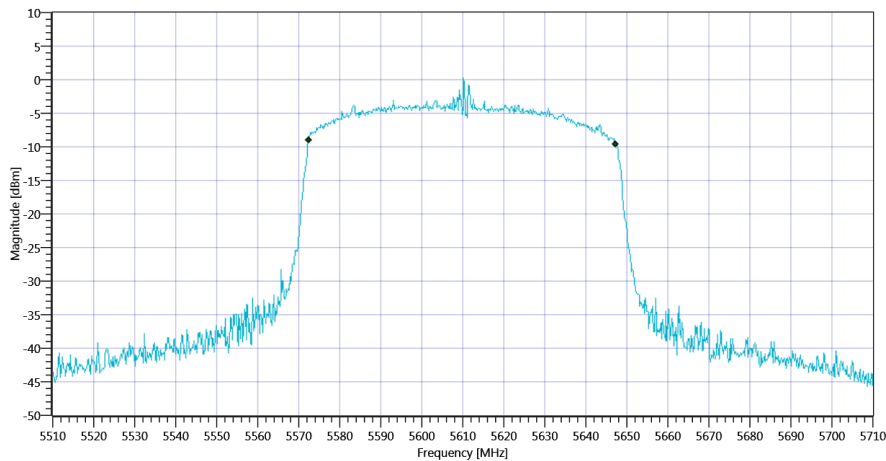
Test at TX 5610 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.68 19.11 0
Start [MHz] Stop [MHz]	5510.000 5710.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 1001 SWE

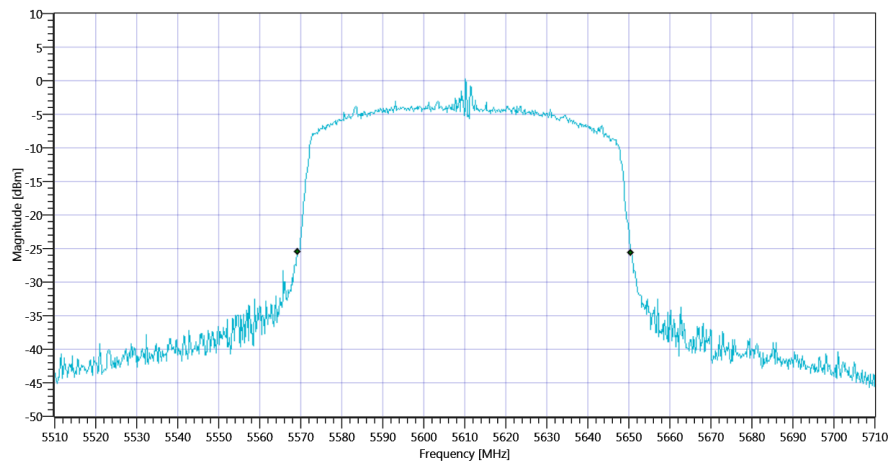
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	74.925	MHz	INFO
T1 99%	5470.000000	---	5572.4376	MHz	PASS since U-NII-3 is supported
T2 99%	---	5725.000000	5647.3626	MHz	

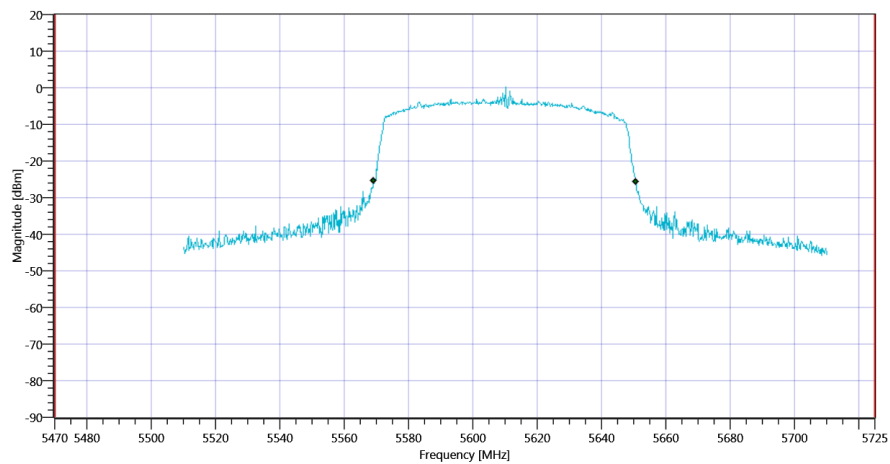


RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.4	MHz	INFO
T1 26dB	5470.000000	---	5569.2000	MHz	PASS since U-NII-3 is supported
T2 26dB	---	5725.000000	5650.6000	MHz	



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C 26dB_06112020_113835.png



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-2C_06112020_113839.png

TEST FINISHED

General Verdict

06.11.2020 11:38:39 / RT: 40 s

PASS

15. FCC Part 15.407 & ISED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-3

Test References	
TC Start	06.11.2020 11:44:23
Ambit Temp [°C] Humidity [rel%]	25.0 26
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 ac-VHT80 mode U-NII-3
Add. Information	

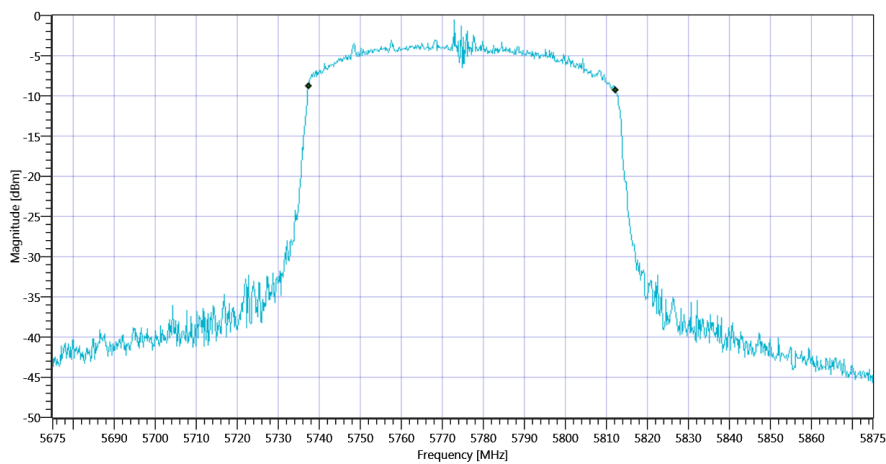
Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

Test at TX 5775 MHz

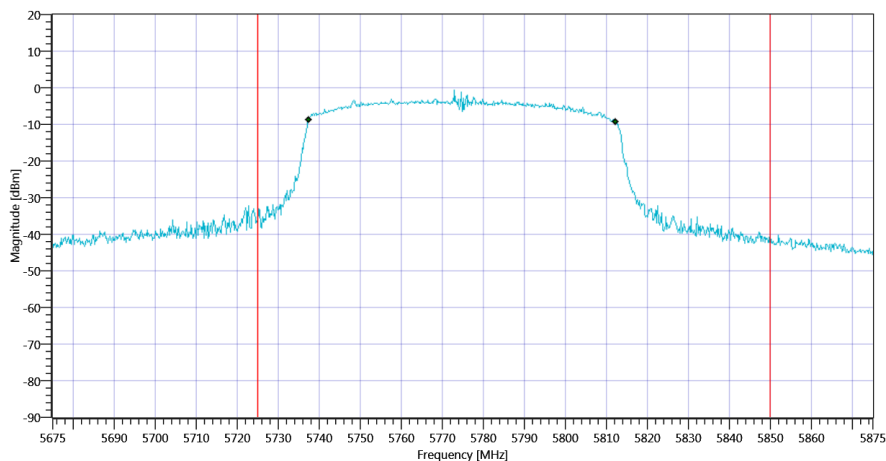
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.13 18.74 5
Start [MHz] Stop [MHz]	5675.000 5875.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
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%	---	---	74.925	MHz	INFO
T1 99%	5725.000000	---	5737.4376	MHz	PASS
T2 99%	---	5850.000000	5812.3626	MHz	PASS

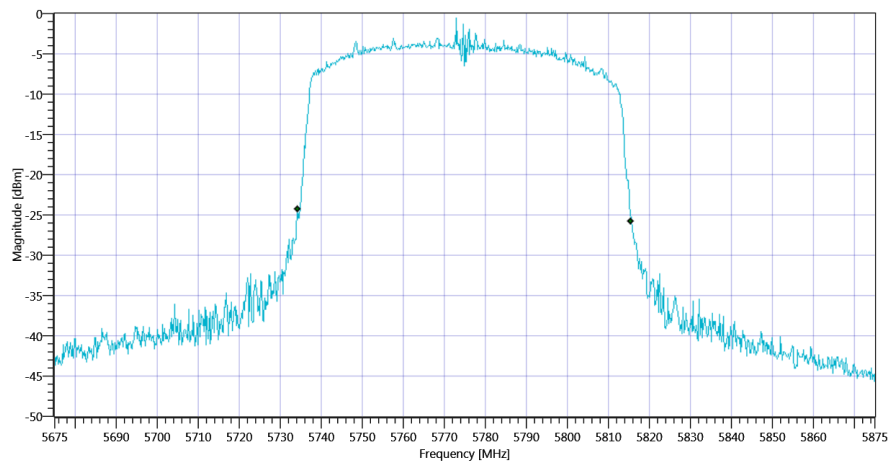


Plot_FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-3 99PCT_06112020_114452.png

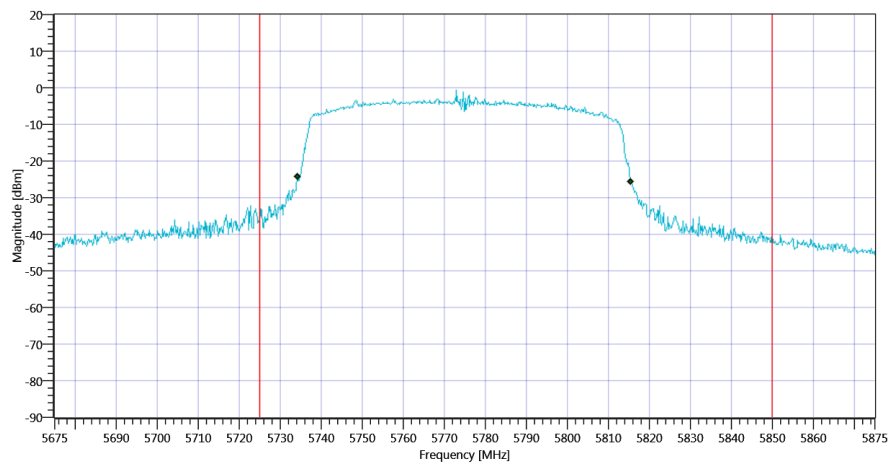


Plot_FCC Part 15.407 & ISM Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-3_06112020_114455.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	81.4	MHz	INFO
T1 26dB	5725.000000	---	5734.2000	MHz	PASS
T2 26dB	---	5850.000000	5815.6000	MHz	PASS



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-3 26dB_06112020_114500.png



Plot_FCC Part 15.407 & ISSED Bandwidths ~ WLAN5Gx ac-VHT80 mode U-NII-3_06112020_114504.png

TEST FINISHED

General Verdict

06.11.2020 11:45:05 / RT: 41 s

PASS

16. FCC Part 15.407 & ISED Minimum Emission BW ~ WLAN5Gx ac-VHT80 mode U-NII-3

Test References	
TC Start	06.11.2020 11:45:09
Ambit Temp [°C] Humidity [rel%]	25.0 26
System Version	1.0.1.1
Test Specification	FCC Part 15.407
Test Method	KDB789033 D02, C.2.
Class / TC Version	TC_VM_FCC15407_Min_Emission_BW_V01 Version: 0.0.1
My Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT80 mode U-NII-3
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-3
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 0
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

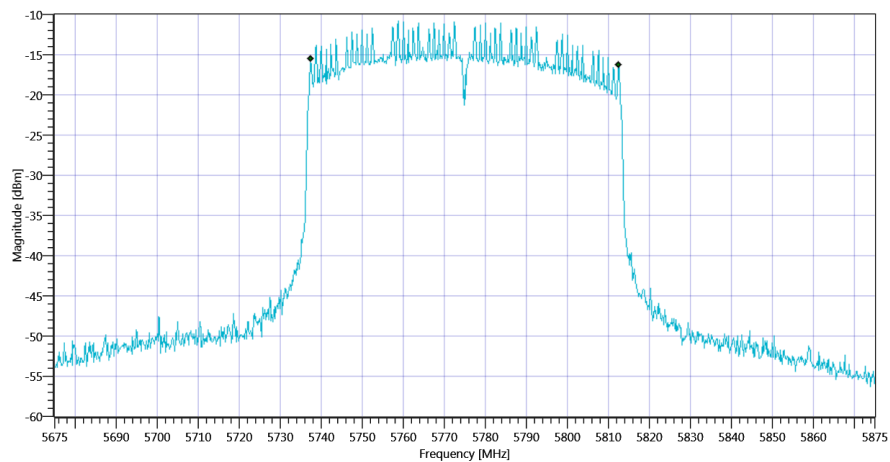
Test at TX 5775 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.27 18.74 5
Start [MHz] Stop [MHz]	5675.000 5875.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2 1500 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth (6dB)	0.500	---	75.2	MHz	PASS



TEST FINISHED

General Verdict	06.11.2020 11:45:35 / RT: 26 s	PASS
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