Measurement Results

1-0397/20-02-14_log5_conducted

Test logging

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2021.03.19 12:57:43 +01'00'

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Table of Content

EUT Summary

IUT DEFINITION & Common settings	
Manufacturer	Digi International Inc.
Type	ConnectCore 8M Nano SoM
Serial No. | Setup No.	CC8MN R204202000400 | 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]	1.4

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

1. Common5Gx Peak OP 3MHz/3MHz ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	09.03.2021 13:05:21
Ambit Temp [°C] | Humidity [rel%]	25.5 | 18
System Version	1.0.1.2
Test Specification	---
Test Method	
Class / TC Version	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2C
Add. Information	

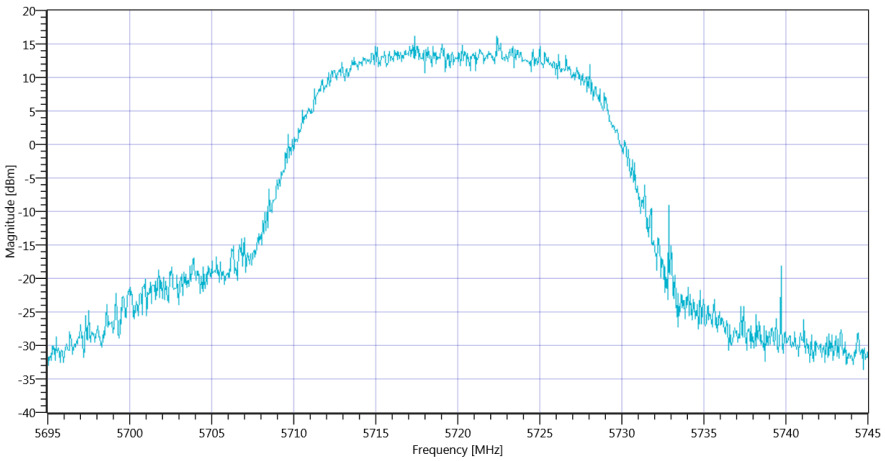
Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	True | Freq [MHz] 5720
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

Test at TX 5720 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.42 | 5.03 | 35
Start [MHz] | Stop [MHz]	5695.000 | 5745.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	16.21	dBm	INFO
Peak Power	---	---	41.783037	mW	INFO
Frequency at Peak	---	---	5722.398	MHz	INFO



Plot_Common5Gx Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2C_09032021_130538.png

TEST FINISHED		
General Verdict	09.03.2021 13:05:39 / RT: 17 s	PASS

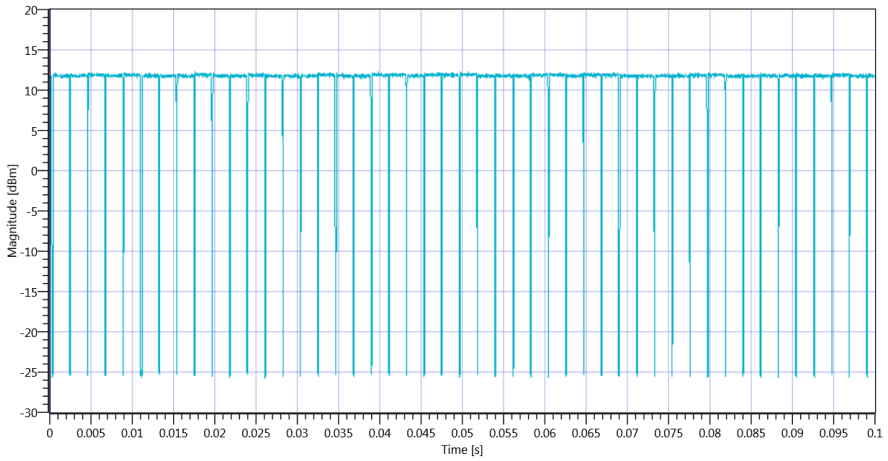
2. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	09.03.2021 13:05:43
Ambit Temp [°C] | Humidity [rel%]	25.6 | 18
System Version	1.0.1.2
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] 5720
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

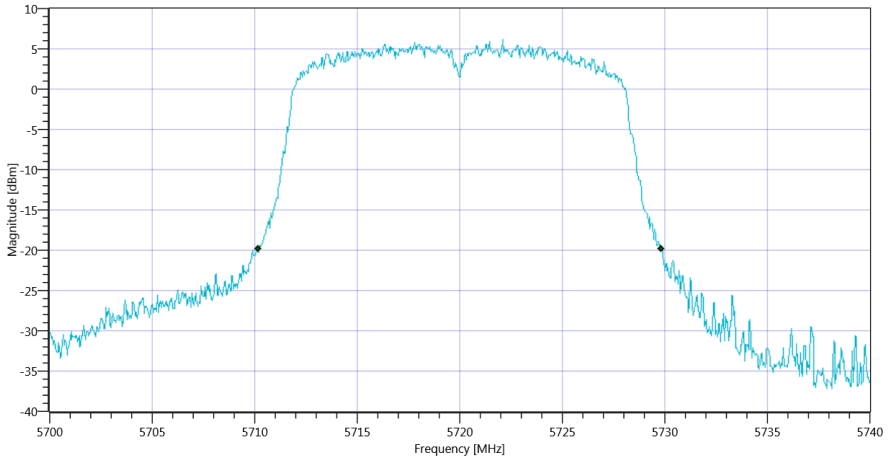
Test at TX 5720 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:46					
Duty Cycle (Burst Ratio) max	---	---	0.941	---	INFO
Duty Cycle max	---	---	0.264	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.899	---	INFO
Duty Cycle min	---	---	0.462	dB	INFO
Max TX Burst Length	---	---	2	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.225	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5720 MHz - DutyCycle_09032021_130559.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	19.68	MHz	INFO
T1 26dB	---	---	5710.1600	MHz	INFO
T2 26dB	---	---	5729.8400	MHz	INFO

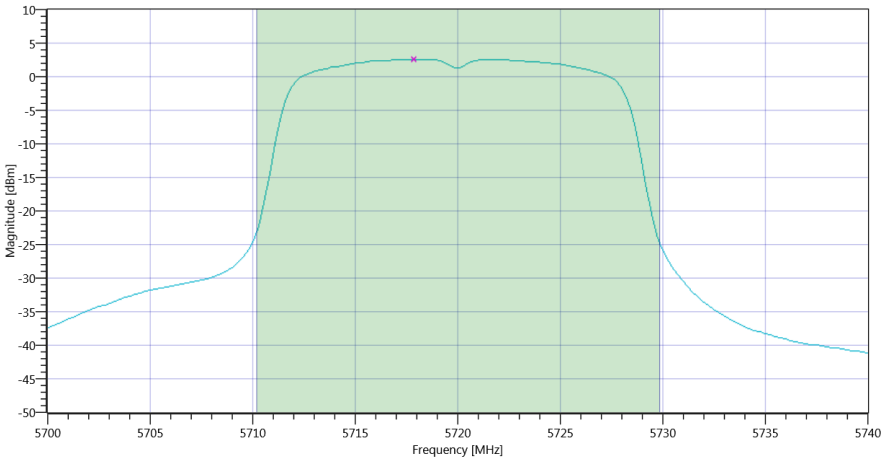


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_09032021_130607.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.18 | 5.03 | 35
Start [MHz] | Stop [MHz]	5700.000 | 5740.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.69	dBm	INFO
Duty Cycle Correction	---	---	0.46	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	14.15	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.94	14.15	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_09032021_130709.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.59	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.46	dB	INFO
Power Spectral Density DC corrected	---	11	3.05	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	09.03.2021 13:07:11 / RT: 88 s	PASS

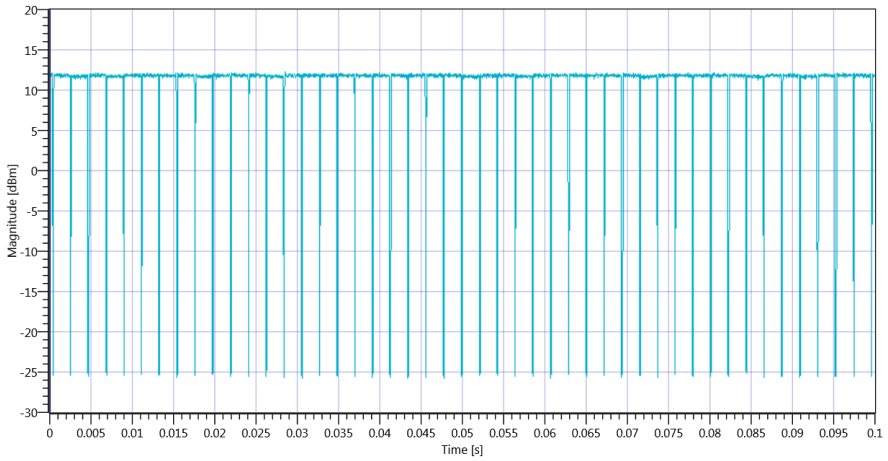
3. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	09.03.2021 13:07:15
Ambit Temp [°C] | Humidity [rel%]	25.5 | 18
System Version	1.0.1.2
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] 5720
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

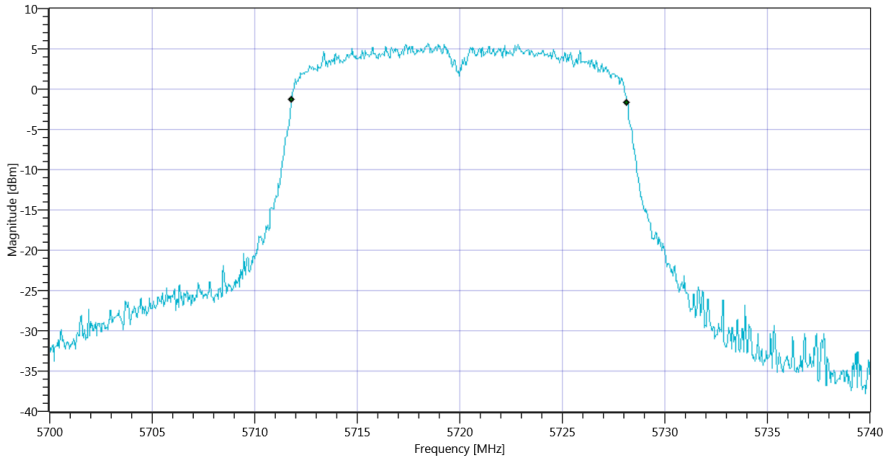
Test at TX 5720 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:46					
Duty Cycle (Burst Ratio) max	---	---	0.941	---	INFO
Duty Cycle max	---	---	0.264	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.899	---	INFO
Duty Cycle min	---	---	0.462	dB	INFO
Max TX Burst Length	---	---	2	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.225	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5720 MHz - DutyCycle_09032021_130731.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	16.344	MHz	INFO
T1 99%	---	---	5711.8082	MHz	INFO
T2 99%	---	---	5728.1518	MHz	INFO

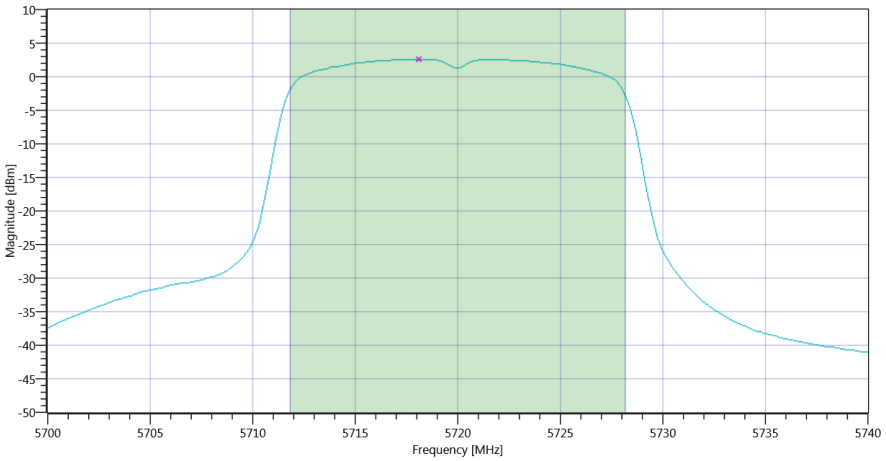


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_09032021_130739.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.40 | 5.03 | 35
Start [MHz] | Stop [MHz]	5700.000 | 5740.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.6	dBm	INFO
Duty Cycle Correction	---	---	0.46	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	14.06	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.13	14.06	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_09032021_130841.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.58	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.46	dB	INFO
Power Spectral Density DC corrected	---	11	3.04	dBm/1MHz	PASS

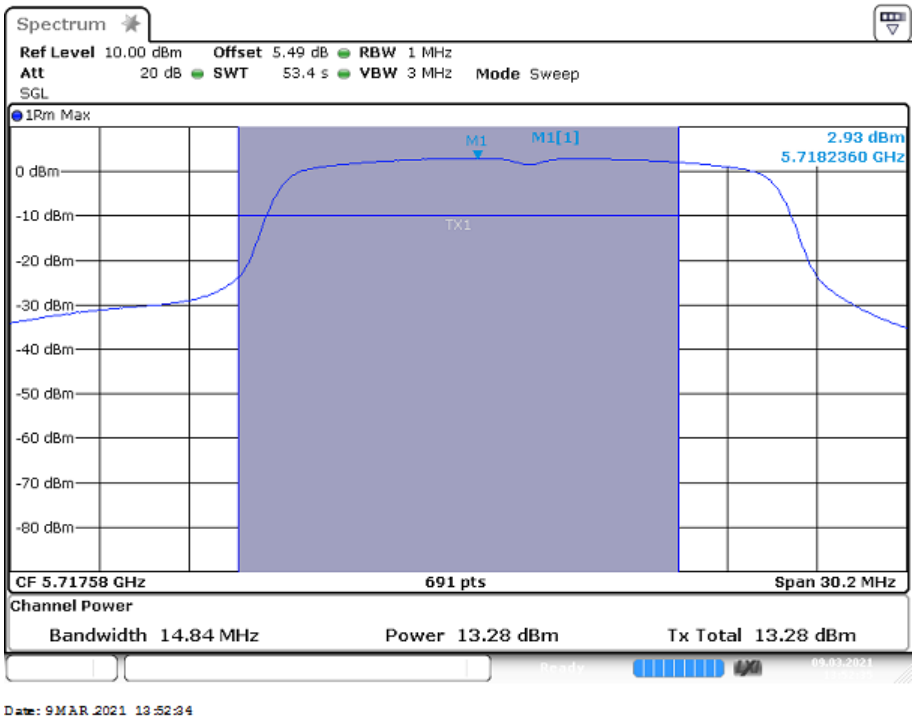
TEST FINISHED		
General Verdict	09.03.2021 13:08:43 / RT: 88 s	PASS

4. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C (Overlapped)

Test References	
TC Start	09.03.2021 13:50:44
Ambit Temp [°C] | Humidity [rel%]	25.7 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	a-mode, UNII2C, FCC Power; PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.49 | 20
Start [MHz] | Stop [MHz]	5702.480 | 5732.680
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_135047.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5718.236000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

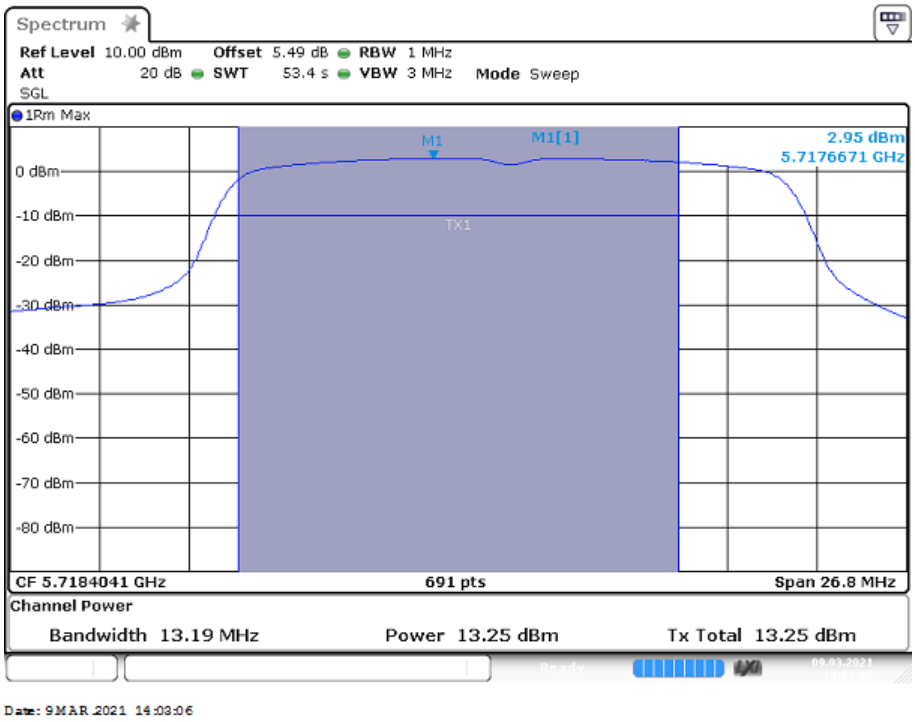
TEST FINISHED			
General Verdict		09.03.2021 13:50:57 / RT: 12 s	INFO

5. ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C (Overlapped)

Test References	
TC Start	09.03.2021 14:01:16
Ambit Temp [°C] | Humidity [rel%]	25.5 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	a-mode, UNII2C, ISED Power; PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.49 | 20
Start [MHz] | Stop [MHz]	5705.004 | 5731.804
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_140118.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5717.667100	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

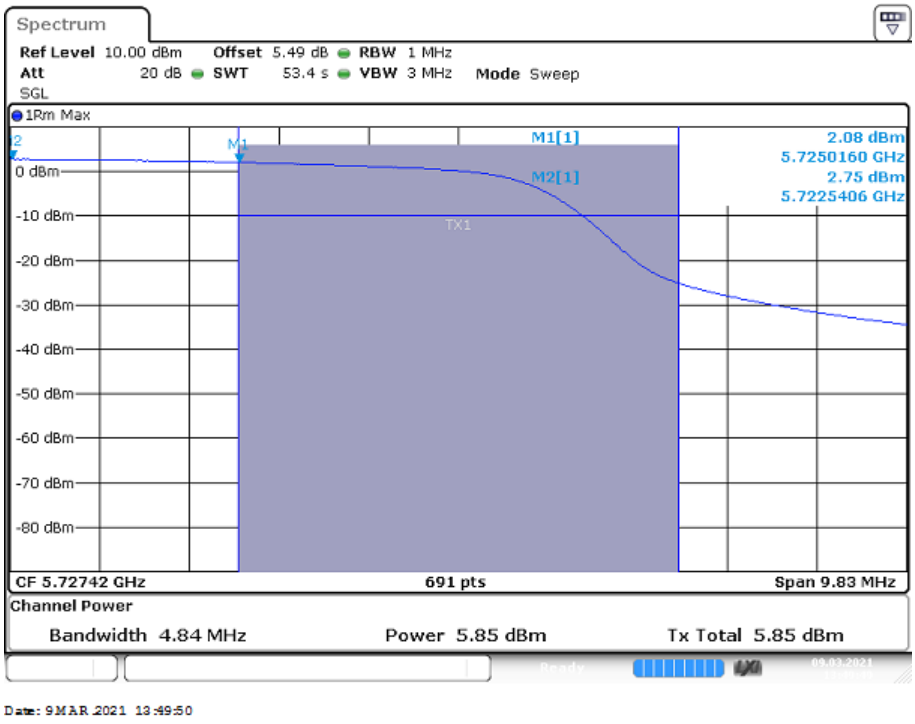
TEST FINISHED		
General Verdict	09.03.2021 14:01:28 / RT: 12 s	INFO

6. FCC Part 15.407 Max Output Power ~ WLAN5Gx a mode U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 13:48:00
Ambit Temp [°C] | Humidity [rel%]	25.7 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	a-mode, UNII3, FCC Power; PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.49 | 20
Start [MHz] | Stop [MHz]	5722.505 | 5732.335
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_134802.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.016000	MHz	Information
Marker 2 Freq.	---	---	5722.540564	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

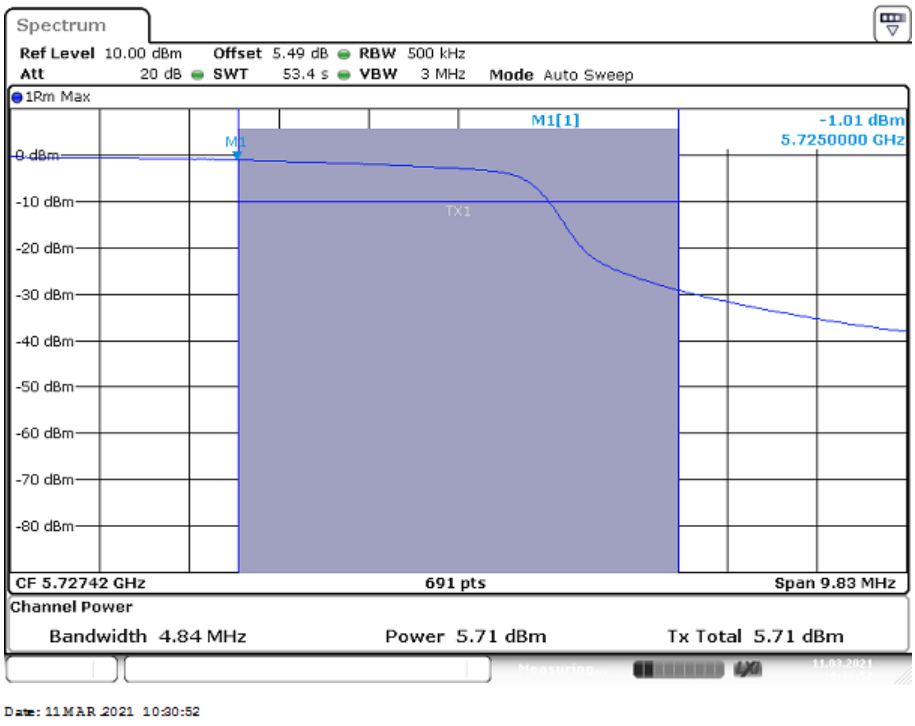
TEST FINISHED		
General Verdict	09.03.2021 13:48:12 / RT: 12 s	INFO

7. FCC Part 15.407 PSD ~ WLAN5Gx a mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 10:28:58
Ambit Temp [°C] | Humidity [rel%]	24.9 | 31
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	a-mode, Power + PSD FCC

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.49 | 20
Start [MHz] | Stop [MHz]	5722.505 | 5732.335
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_102901.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

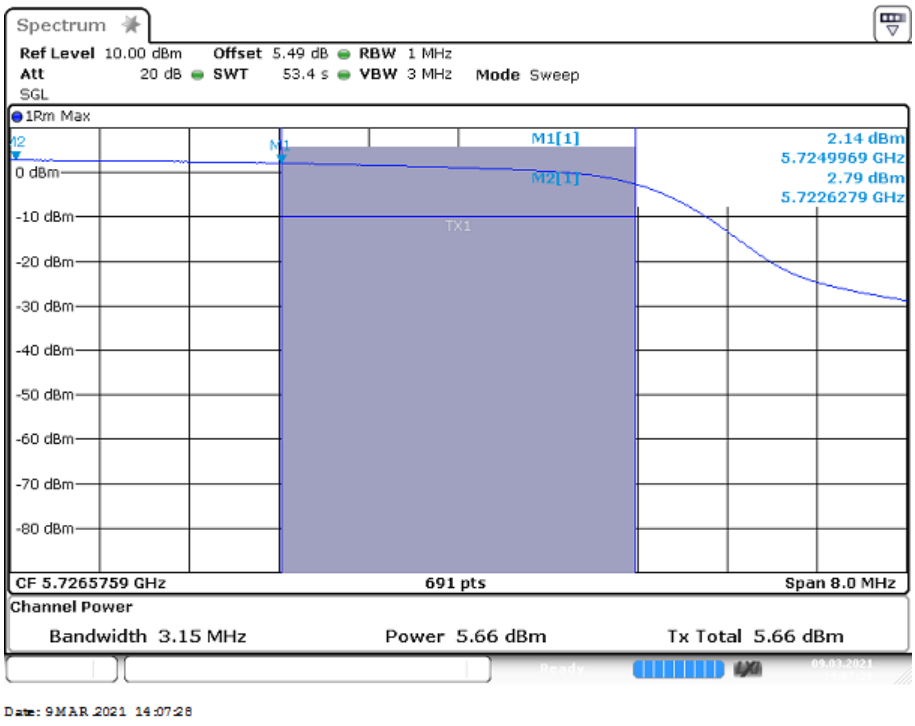
TEST FINISHED					
General Verdict		11.03.2021 10:29:11 / RT: 12 s		INFO	

8. ISED Max Output Power ~ WLAN5Gx a mode U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 14:05:38
Ambit Temp [°C] | Humidity [rel%]	25.5 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	a-mode, UNII3, ISED Power; PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.49 | 20
Start [MHz] | Stop [MHz]	5722.576 | 5730.576
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_140540.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5724.996900	MHz	Information
Marker 2 Freq.	---	---	5722.627900	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

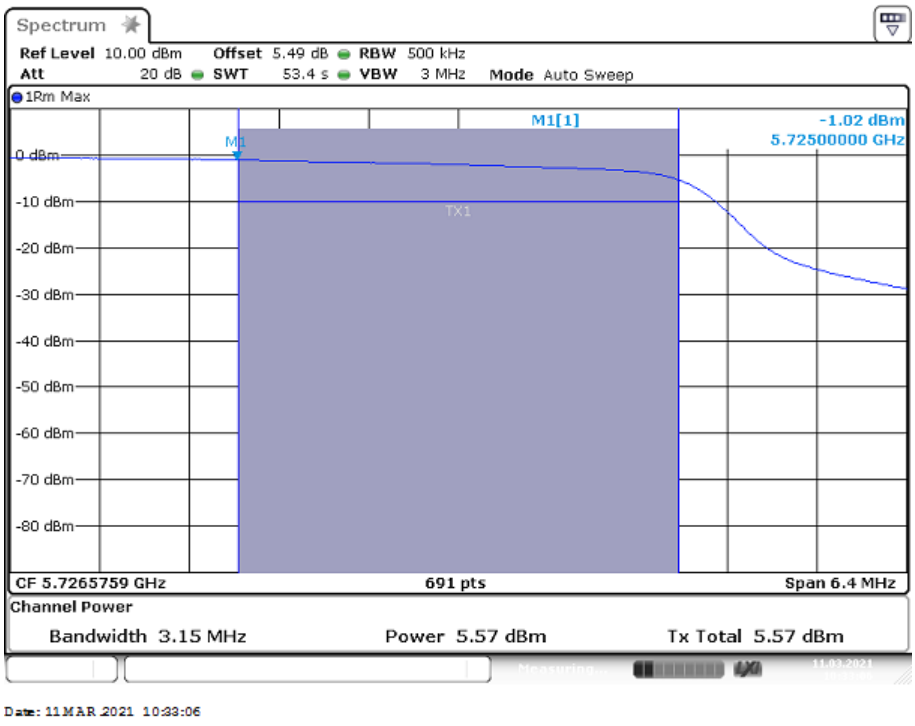
TEST FINISHED			
General Verdict		09.03.2021 14:05:50 / RT: 12 s	INFO

9. ISED PSD ~ WLAN5Gx a mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 10:31:13
Ambit Temp [°C] | Humidity [rel%]	24.9 | 31
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	a-mode, Power + PSD ISED

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.49 | 20
Start [MHz] | Stop [MHz]	5723.376 | 5729.776
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_103115.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

TEST FINISHED					
General Verdict		11.03.2021 10:31:25 / RT: 11 s		INFO	

10. Common5Gx Peak OP 3MHz/3MHz ~ WLAN5Gx n-HT20 U-NII-2C

Test References	
TC Start	09.03.2021 14:12:31
Ambit Temp [°C] | Humidity [rel%]	25.4 | 18
System Version	1.0.1.2
Test Specification	---
Test Method	
Class / TC Version	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1
My Description	Peak OP 3MHz/3MHz - WLAN5Gx a mode U-NII-2C
Add. Information	

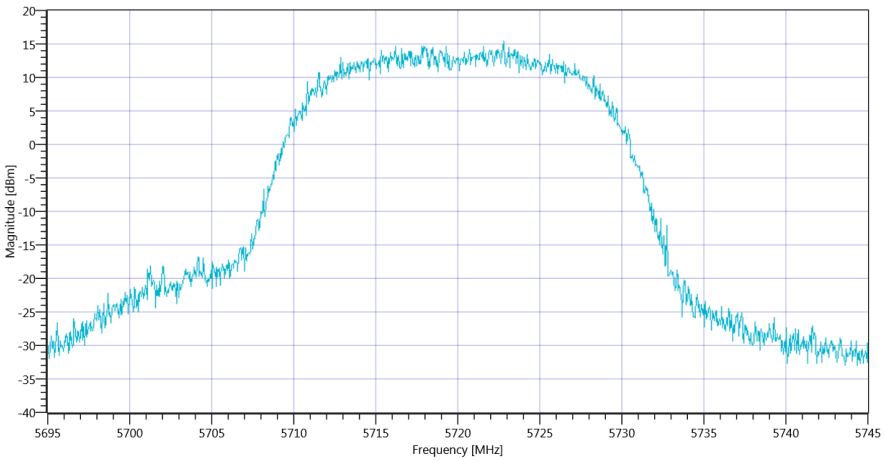
Test Parameter	
Technology to test	WLAN5Gx a mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5500
Frequency mid to test	False | Freq [MHz] 5600
Frequency high to test	True | Freq [MHz] 5720
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

Test at TX 5720 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.74 | 5.03 | 35
Start [MHz] | Stop [MHz]	5695.000 | 5745.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	15.43	dBm	INFO
Peak Power	---	---	34.914032	mW	INFO
Frequency at Peak	---	---	5722.797	MHz	INFO



Plot_Common5Gx Peak OP 3MHz-3MHz ~ WLAN5Gx a mode U-NII-2C_09032021_141248.png

TEST FINISHED		
General Verdict	09.03.2021 14:12:48 / RT: 16 s	PASS

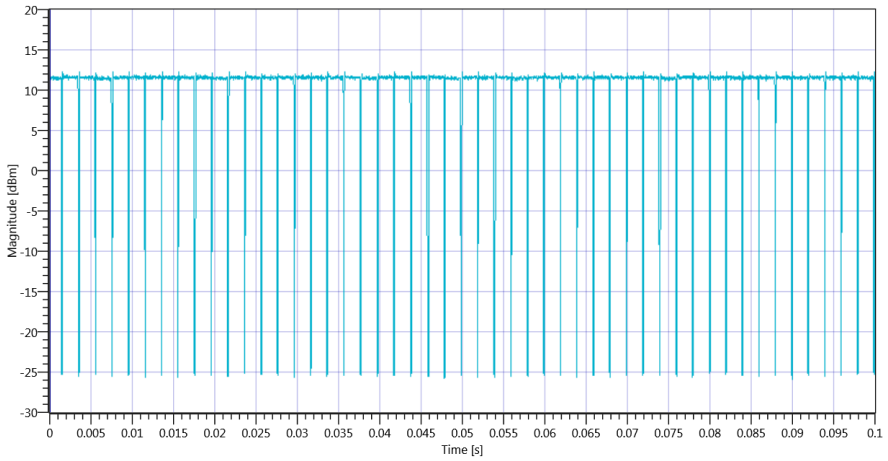
11. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 U-NII-2C

Test References	
TC Start	09.03.2021 14:12:52
Ambit Temp [°C] | Humidity [rel%]	25.4 | 18
System Version	1.0.1.2
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] 5720
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

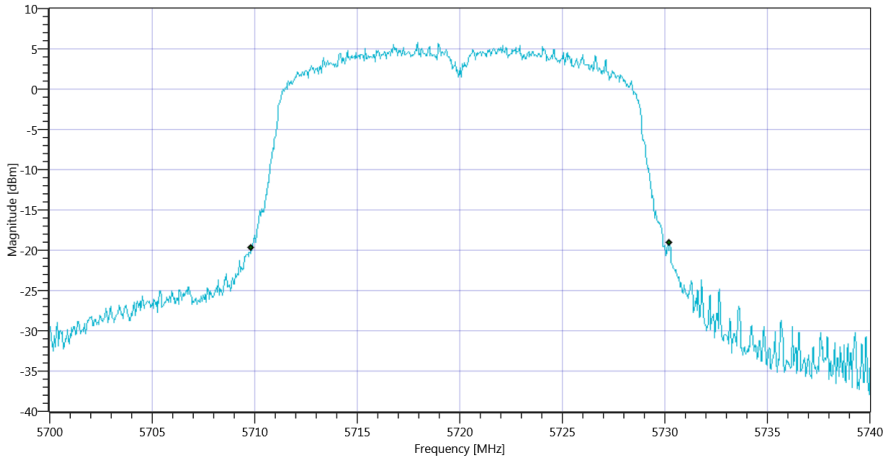
Test at TX 5720 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:49					
Duty Cycle (Burst Ratio) max	---	---	0.938	---	INFO
Duty Cycle max	---	---	0.278	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.902	---	INFO
Duty Cycle min	---	---	0.448	dB	INFO
Max TX Burst Length	---	---	1.875	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.2	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5720 MHz - DutyCycle_09032021_141308.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	20.4	MHz	INFO
T1 26dB	---	---	5709.8400	MHz	INFO
T2 26dB	---	---	5730.2400	MHz	INFO

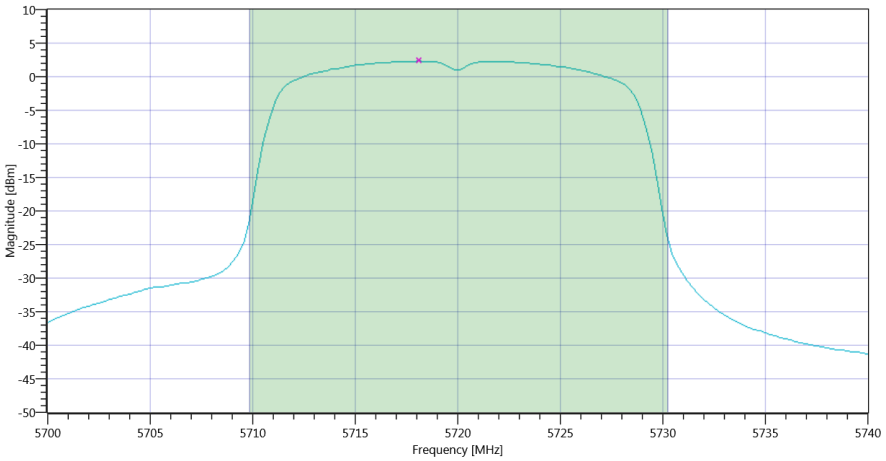


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_09032021_141316.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.12 | 5.03 | 35
Start [MHz] | Stop [MHz]	5700.000 | 5740.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.55	dBm	INFO
Duty Cycle Correction	---	---	0.45	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	14	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.1	14	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_09032021_141418.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.3	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.45	dB	INFO
Power Spectral Density DC corrected	---	11	2.75	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	09.03.2021 14:14:20 / RT: 87 s	PASS

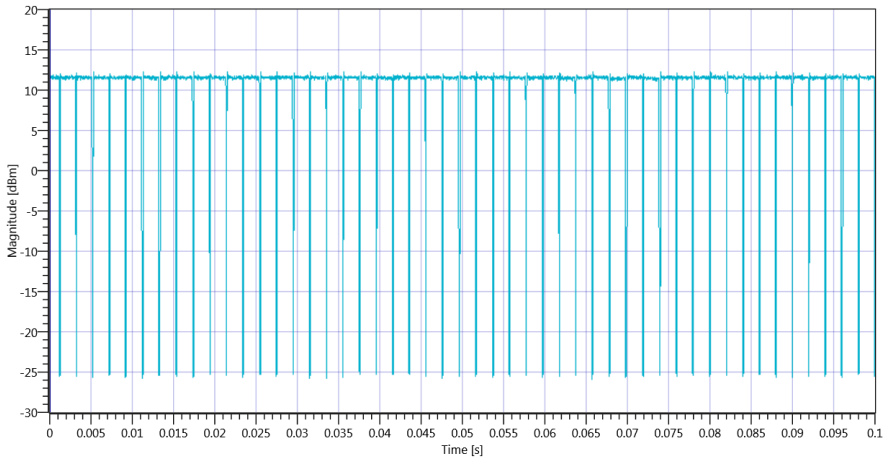
12. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 U-NII-2C

Test References	
TC Start	09.03.2021 14:14:24
Ambit Temp [°C] | Humidity [rel%]	25.4 | 18
System Version	1.0.1.2
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] 5720
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

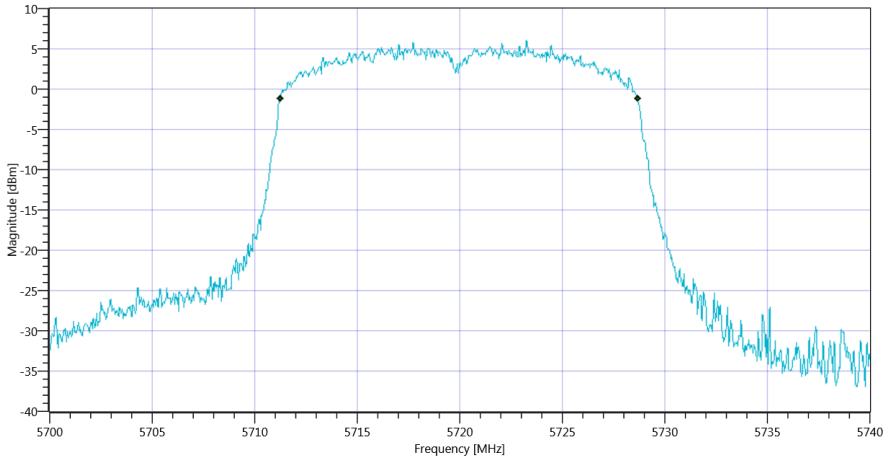
Test at TX 5720 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:48					
Duty Cycle (Burst Ratio) max	---	---	0.938	---	INFO
Duty Cycle max	---	---	0.278	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.902	---	INFO
Duty Cycle min	---	---	0.448	dB	INFO
Max TX Burst Length	---	---	1.875	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.2	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C 5720 MHz - DutyCycle_09032021_141440.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	17.423	MHz	INFO
T1 99%	---	---	5711.2488	MHz	INFO
T2 99%	---	---	5728.6713	MHz	INFO

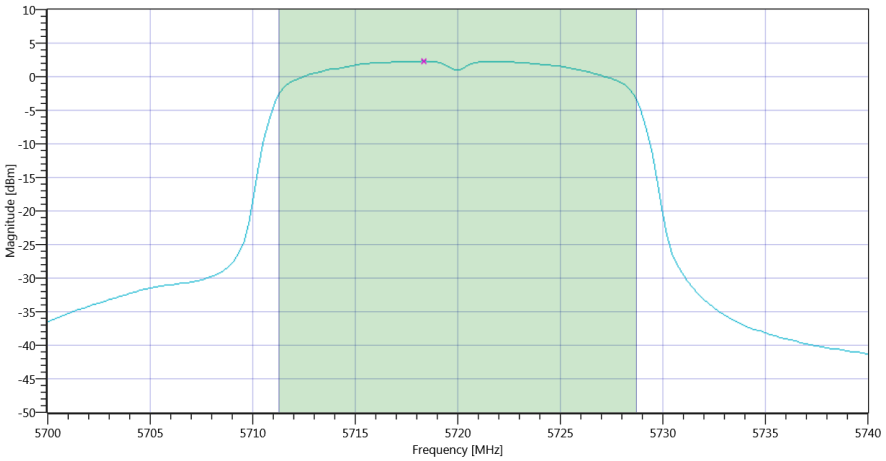


Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C BW_09032021_141448.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	22.29 | 5.03 | 35
Start [MHz] | Stop [MHz]	5700.000 | 5740.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	13.47	dBm	INFO
Duty Cycle Correction	---	---	0.45	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	---	23.41	13.92	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx a mode U-NII-2C Max OP and PSD_09032021_141550.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	2.29	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.45	dB	INFO
Power Spectral Density DC corrected	---	11	2.74	dBm/1MHz	PASS

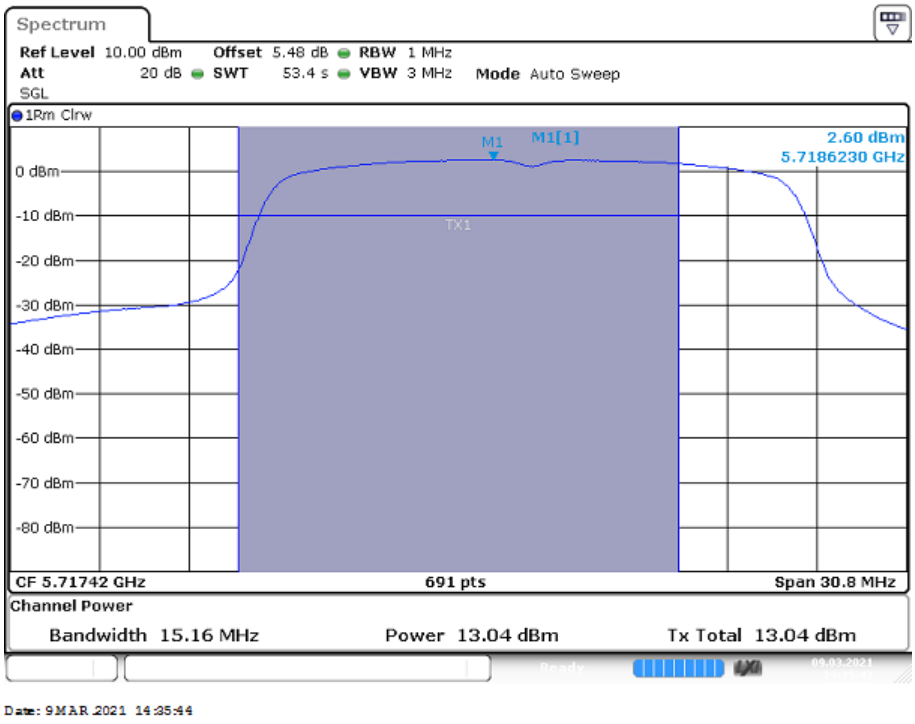
TEST FINISHED		
General Verdict	09.03.2021 14:15:52 / RT: 88 s	PASS

13. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT20 U-NII-2C (Overlapped)

Test References	
TC Start	09.03.2021 14:33:54
Ambit Temp [°C] | Humidity [rel%]	25.3 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT20-mode, FCC Power 5720MHz, UNII2C, PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.48 | 20
Start [MHz] | Stop [MHz]	5702.020 | 5732.820
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_143356.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5718.623000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

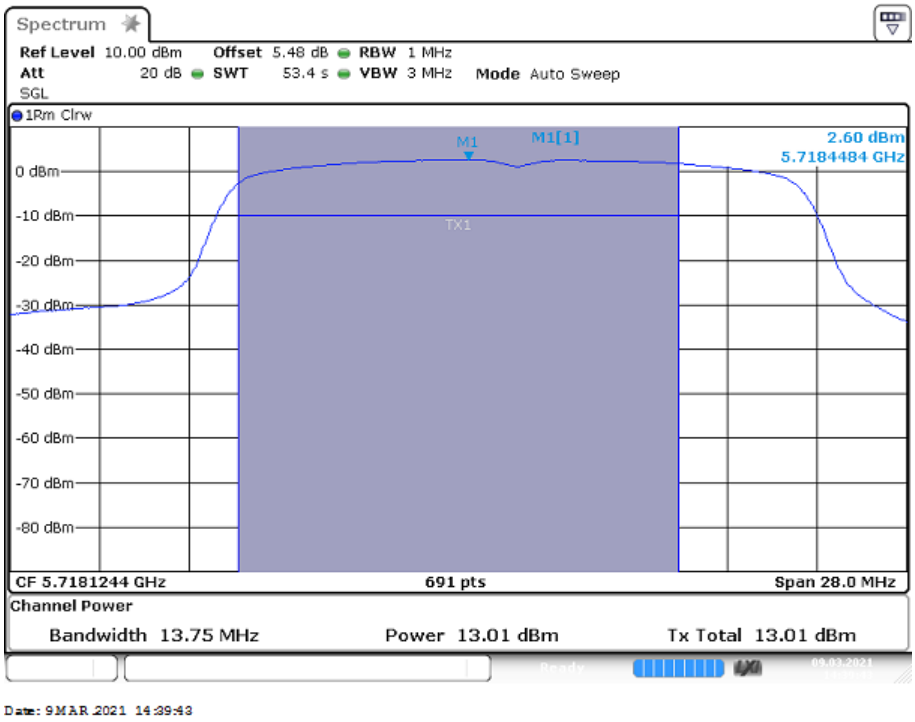
TEST FINISHED		
General Verdict	09.03.2021 14:34:06 / RT: 11 s	INFO

14. ISED Max Output Power and PSD ~ WLAN5Gx n-HT20 U-NII-2C (Overlapped)

Test References	
TC Start	09.03.2021 14:37:53
Ambit Temp [°C] | Humidity [rel%]	25.2 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT20-mode, ISED Power 5720MHz, UNII2C, PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.48 | 20
Start [MHz] | Stop [MHz]	5704.124 | 5732.124
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_143755.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5718.448400	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

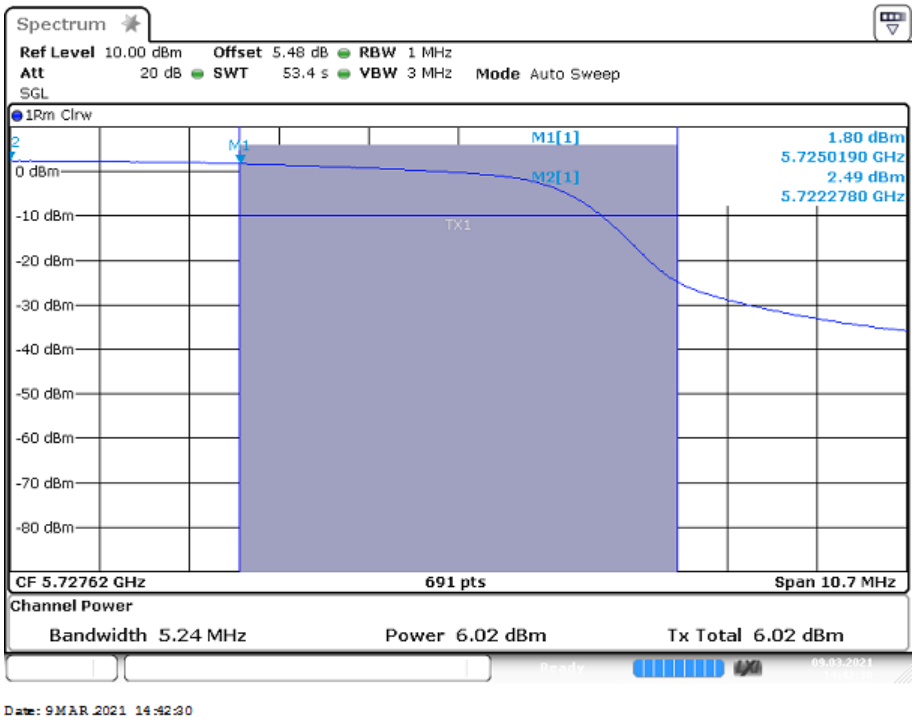
TEST FINISHED			
General Verdict		09.03.2021 14:38:05 / RT: 12 s	INFO

15. FCC Part 15.407 Max Output Power ~ WLAN5Gx n-HT20 U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 14:40:40
Ambit Temp [°C] | Humidity [rel%]	25.1 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT20-mode,FCC Power 5720MHz, UNII3, PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.48 | 20
Start [MHz] | Stop [MHz]	5722.270 | 5732.970
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_144042.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.019000	MHz	Information
Marker 2 Freq.	---	---	5722.278000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

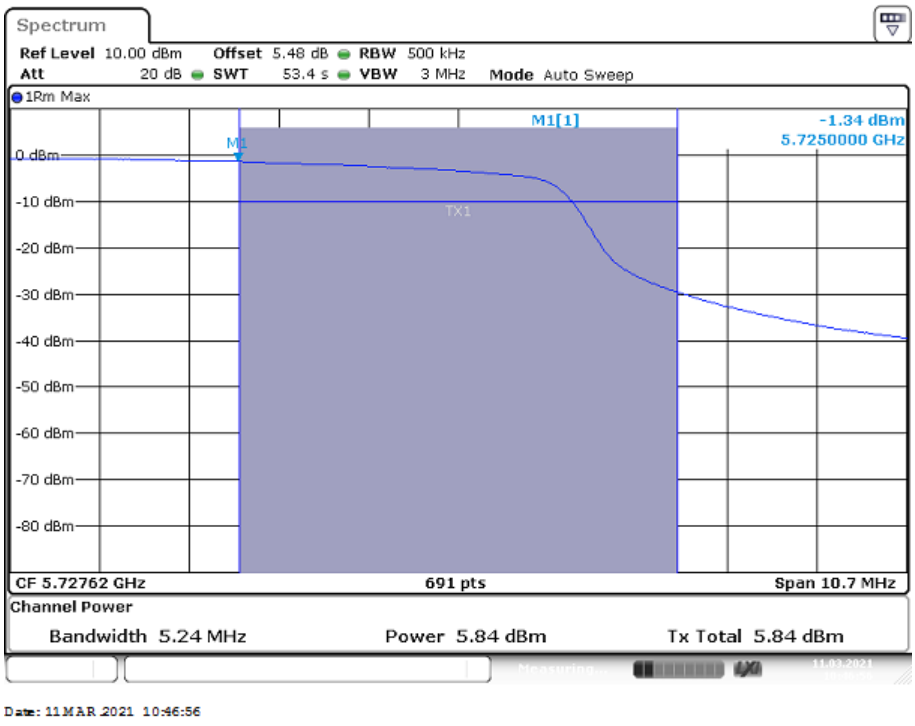
TEST FINISHED		
General Verdict	09.03.2021 14:40:53 / RT: 13 s	INFO

16. FCC Part 15.407 PSD ~ WLAN5Gx n-HT20 U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 10:45:03
Ambit Temp [°C] | Humidity [rel%]	24.7 | 31
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	n20-mode, Power + PSD FCC

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.48 | 20
Start [MHz] | Stop [MHz]	5722.270 | 5732.970
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_104505.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

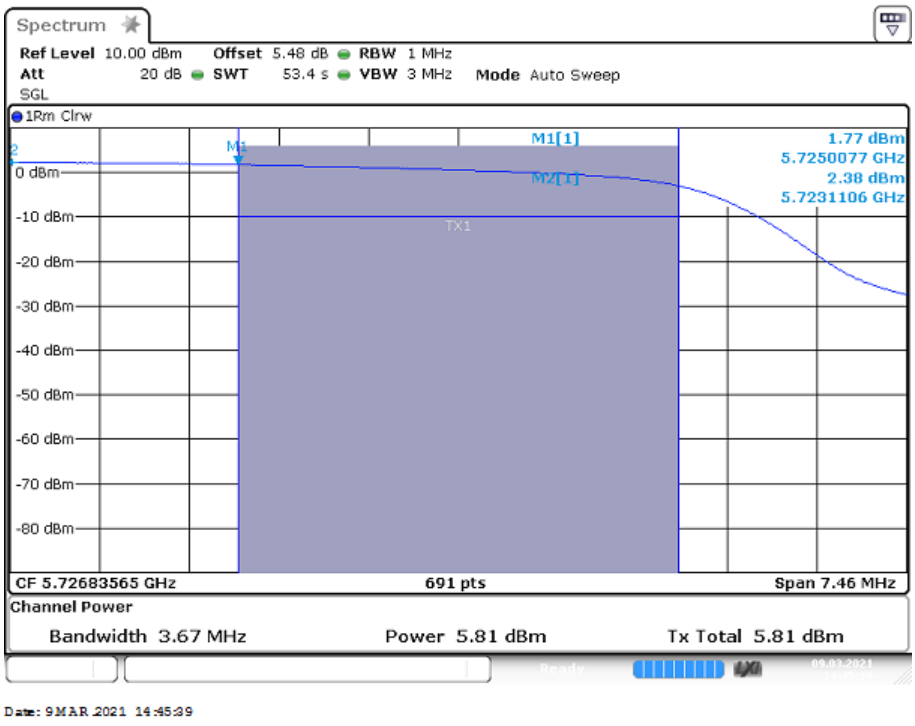
TEST FINISHED					
General Verdict		11.03.2021 10:45:15 / RT: 11 s		INFO	

17. ISED Max Output Power ~ WLAN5Gx n-HT20 U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 14:43:49
Ambit Temp [°C] | Humidity [rel%]	25.1 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT20-mode ISED Power 5720MHz, UNII3, PS10

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.48 | 20
Start [MHz] | Stop [MHz]	5723.106 | 5730.566
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_144351.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.007650	MHz	Information
Marker 2 Freq.	---	---	5723.110650	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

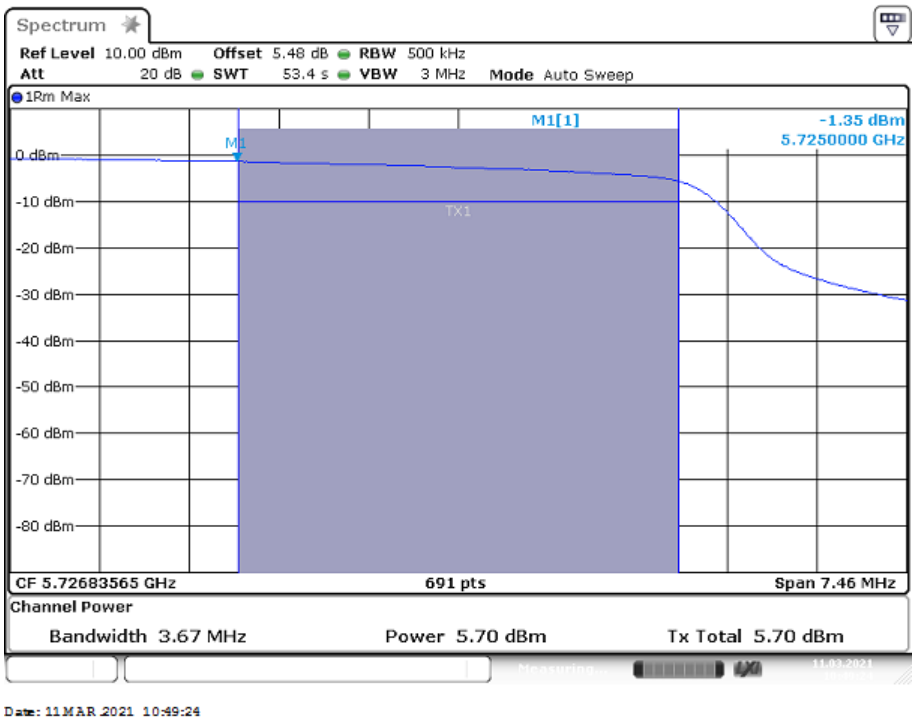
TEST FINISHED			
General Verdict		09.03.2021 14:44:01 / RT: 12 s	INFO

18. ISED PSD ~ WLAN5Gx n-HT20 U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 10:47:31
Ambit Temp [°C] | Humidity [rel%]	24.7 | 31
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	n20-mode, Power + PSD ISED

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.48 | 20
Start [MHz] | Stop [MHz]	5723.106 | 5730.566
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_104733.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

TEST FINISHED					
General Verdict		11.03.2021 10:47:43 / RT: 11 s		INFO	

19. Common5Gx Peak OP 3MHz/3MHz ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	09.03.2021 14:46:13
Ambit Temp [°C] | Humidity [rel%]	25.0 | 18
System Version	1.0.1.2
Test Specification	---
Test Method	
Class / TC Version	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1
My Description	Peak OP 3MHz/3MHz - WLAN5Gx n-HT40 mode U-NII-2C
Add. Information	

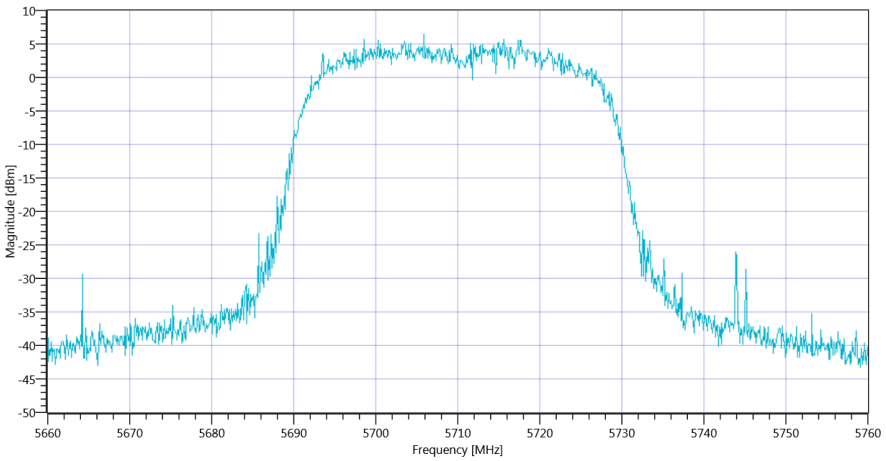
Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5510
Frequency mid to test	False | Freq [MHz] 5590
Frequency high to test	True | Freq [MHz] 5710
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

Test at TX 5710 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.28 | 5 | 25
Start [MHz] | Stop [MHz]	5660.000 | 5760.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	6.45	dBm	INFO
Peak Power	---	---	4.415704	mW	INFO
Frequency at Peak	---	---	5705.9	MHz	INFO



Plot_Common5Gx Peak OP 3MHz-3MHz ~ WLAN5Gx n-HT40 mode U-NII-2C_09032021_144629.png

TEST FINISHED		
General Verdict	09.03.2021 14:46:30 / RT: 16 s	PASS

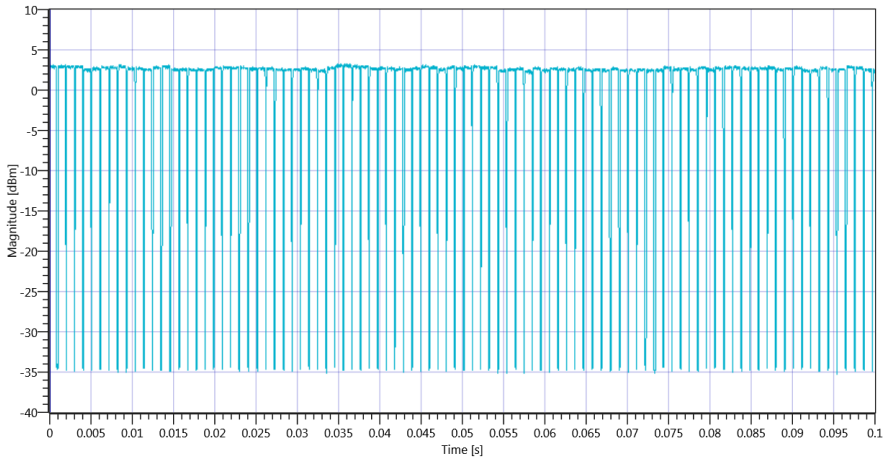
20. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	09.03.2021 14:46:34
Ambit Temp [°C] | Humidity [rel%]	25.1 | 18
System Version	1.0.1.2
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 n-HT40 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5510
Frequency mid to test	False | Freq [MHz] 5590
Frequency high to test	True | Freq [MHz] 5710
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

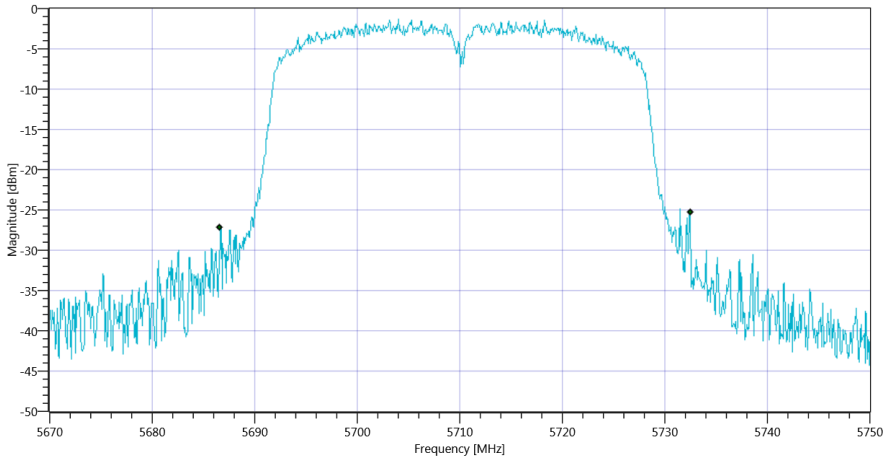
Test at TX 5710 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:94					
Duty Cycle (Burst Ratio) max	---	---	0.878	---	INFO
Duty Cycle max	---	---	0.565	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.8	---	INFO
Duty Cycle min	---	---	0.969	dB	INFO
Max TX Burst Length	---	---	0.9	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.225	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C 5710 MHz - DutyCycle_09032021_144650.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	45.84	MHz	INFO
T1 26dB	---	---	5686.6400	MHz	INFO
T2 26dB	---	---	5732.4800	MHz	INFO

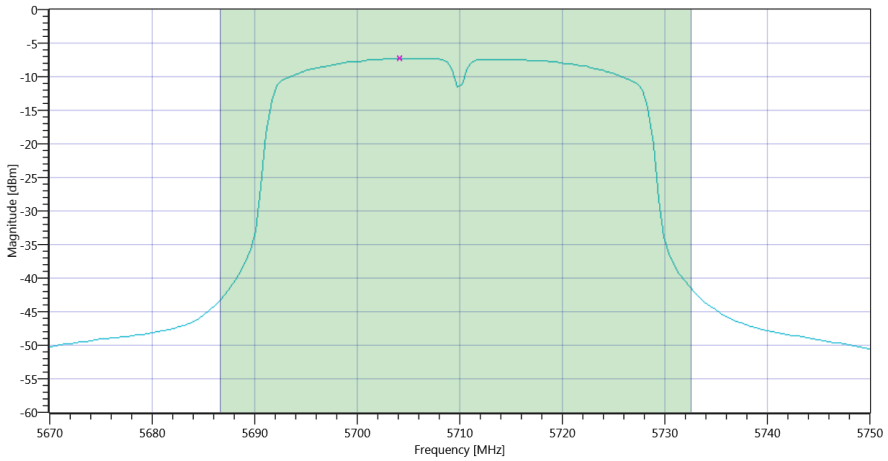


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C BW_09032021_144658.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.24 | 5 | 25
Start [MHz] | Stop [MHz]	5670.000 | 5750.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.08	dBm	INFO
Duty Cycle Correction	---	---	0.97	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	8.05	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.61	8.05	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD_09032021_144800.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.29	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0.97	dB	INFO
Power Spectral Density DC corrected	---	11	-6.32	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	09.03.2021 14:48:02 / RT: 87 s	PASS

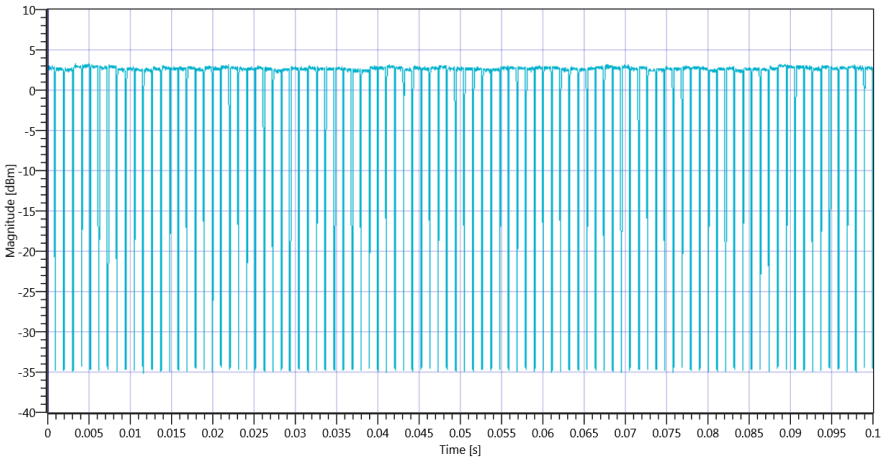
21. ISED Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	09.03.2021 14:48:06
Ambit Temp [°C] | Humidity [rel%]	25.1 | 18
System Version	1.0.1.2
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 n-HT40 mode U-NII-2C
Add. Information	

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5510
Frequency mid to test	False | Freq [MHz] 5590
Frequency high to test	True | Freq [MHz] 5710
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

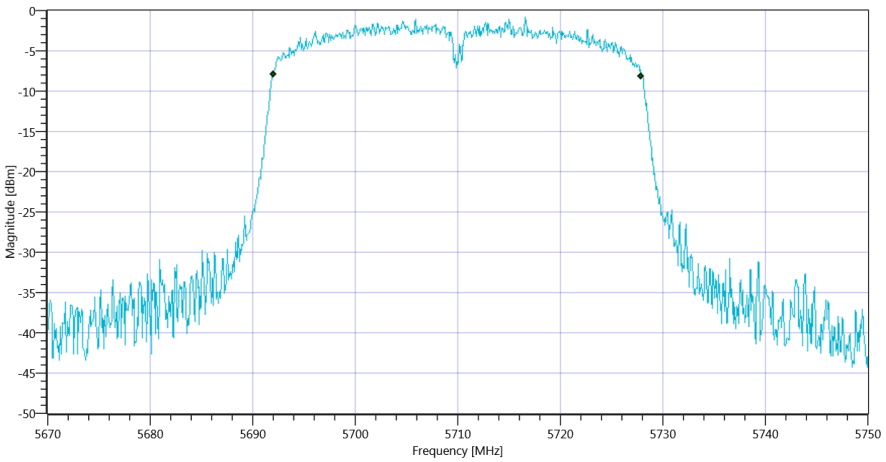
Test at TX 5710 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:93					
Duty Cycle (Burst Ratio) max	---	---	0.878	---	INFO
Duty Cycle max	---	---	0.565	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.795	---	INFO
Duty Cycle min	---	---	0.996	dB	INFO
Max TX Burst Length	---	---	0.9	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.225	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C 5710 MHz - DutyCycle_09032021_144822.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	35.884	MHz	INFO
T1 99%	---	---	5692.0180	MHz	INFO
T2 99%	---	---	5727.9021	MHz	INFO

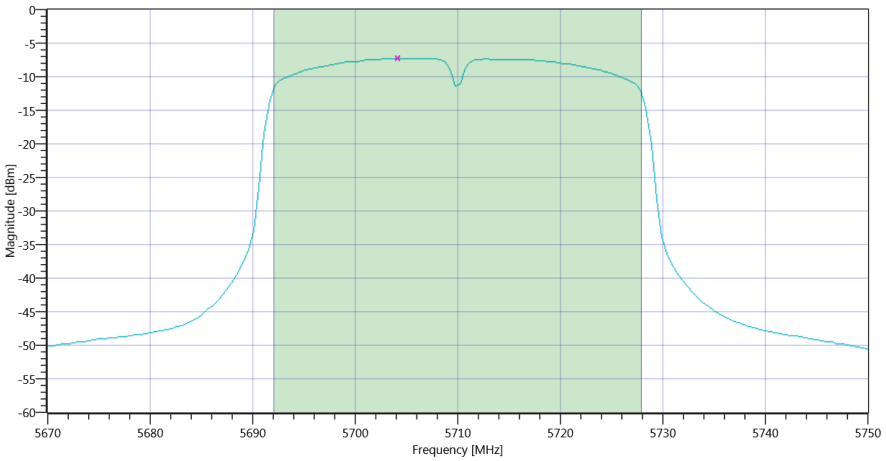


Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C BW_09032021_144831.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.23 | 5 | 25
Start [MHz] | Stop [MHz]	5670.000 | 5750.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 1 | 160 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.03	dBm	INFO
Duty Cycle Correction	---	---	1	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	8.03	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.55	8.03	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD_09032021_144932.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.32	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1	dB	INFO
Power Spectral Density DC corrected	---	11	-6.32	dBm/1MHz	PASS

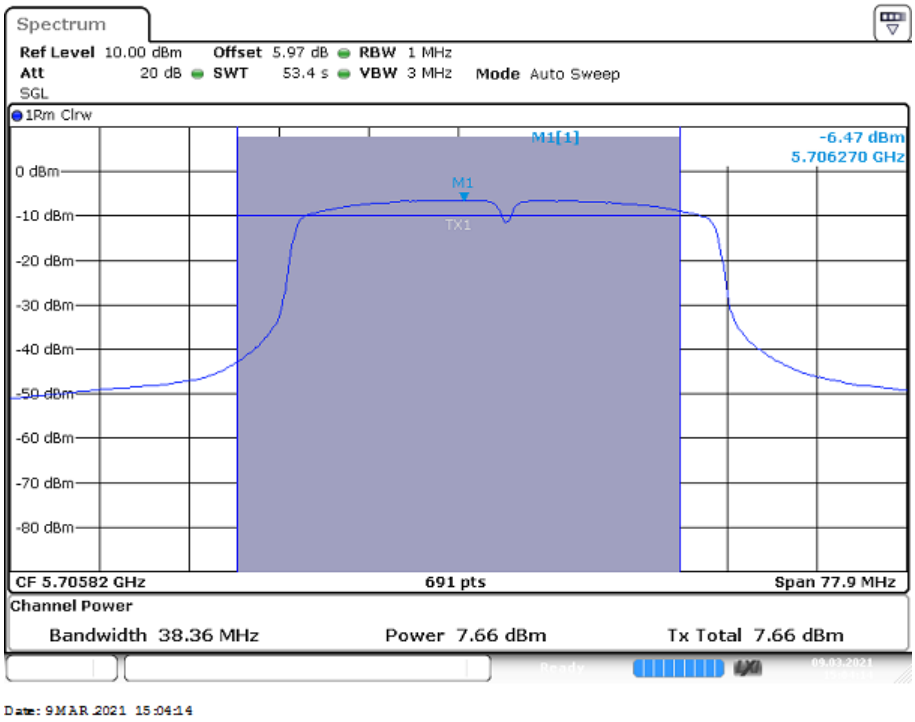
TEST FINISHED		
General Verdict	09.03.2021 14:49:34 / RT: 88 s	PASS

22. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C (Overlapped)

Test References	
TC Start	09.03.2021 15:02:24
Ambit Temp [°C] | Humidity [rel%]	25.1 | 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT40-mode FCC Power 5720MHz, UNII2C, PS4

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.97 | 20
Start [MHz] | Stop [MHz]	5666.870 | 5744.770
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_150226.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5706.270000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

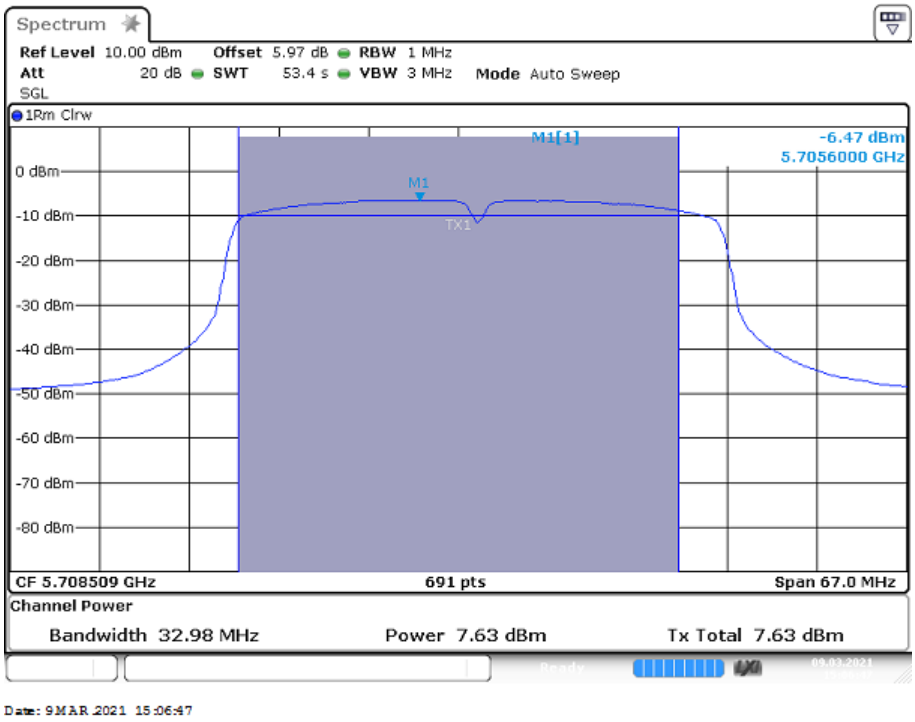
TEST FINISHED			
General Verdict		09.03.2021 15:02:36 / RT: 11 s	INFO

23. ISED Max Output Power and PSD ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	09.03.2021 15:04:58
Ambit Temp [°C] | Humidity [rel%]	25.2 | 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT40-mode ISED Power 5720MHz, UNII2C, PS4

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.97 | 20
Start [MHz] | Stop [MHz]	5675.009 | 5742.009
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_150500.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5705.600000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

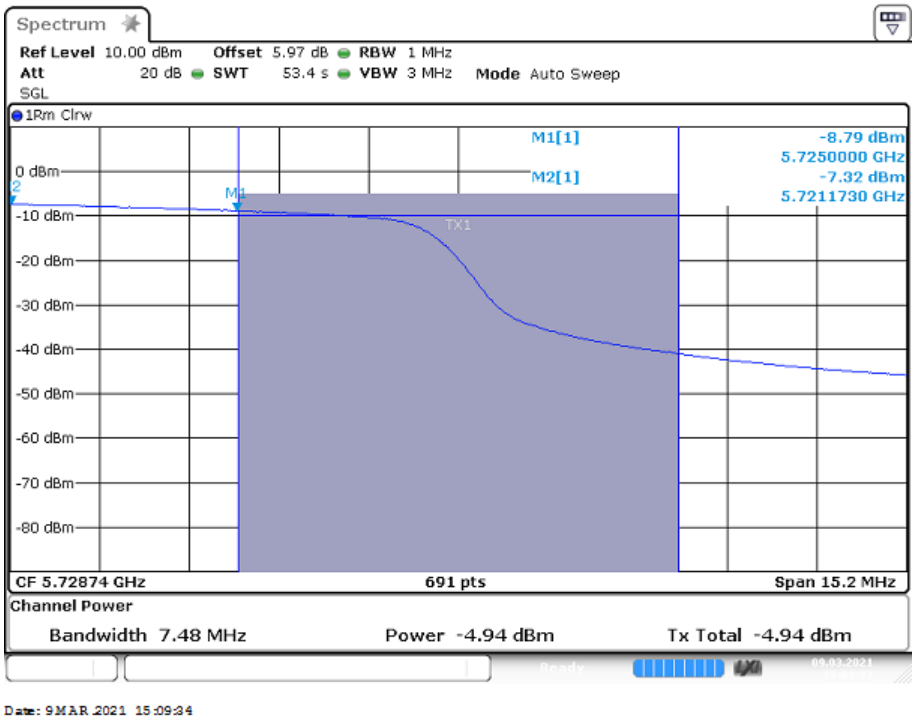
TEST FINISHED			
General Verdict		09.03.2021 15:05:10 / RT: 12 s	INFO

24. FCC Part 15.407 Max Output Power ~ WLAN5Gx n-HT40 mode U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 15:07:44
Ambit Temp [°C] | Humidity [rel%]	25.1 | 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT40-mode FCC Power 5720MHz, UNII3, PS4

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.97 | 20
Start [MHz] | Stop [MHz]	5721.140 | 5736.340
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_150746.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information
Marker 2 Freq.	---	---	5721.173000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

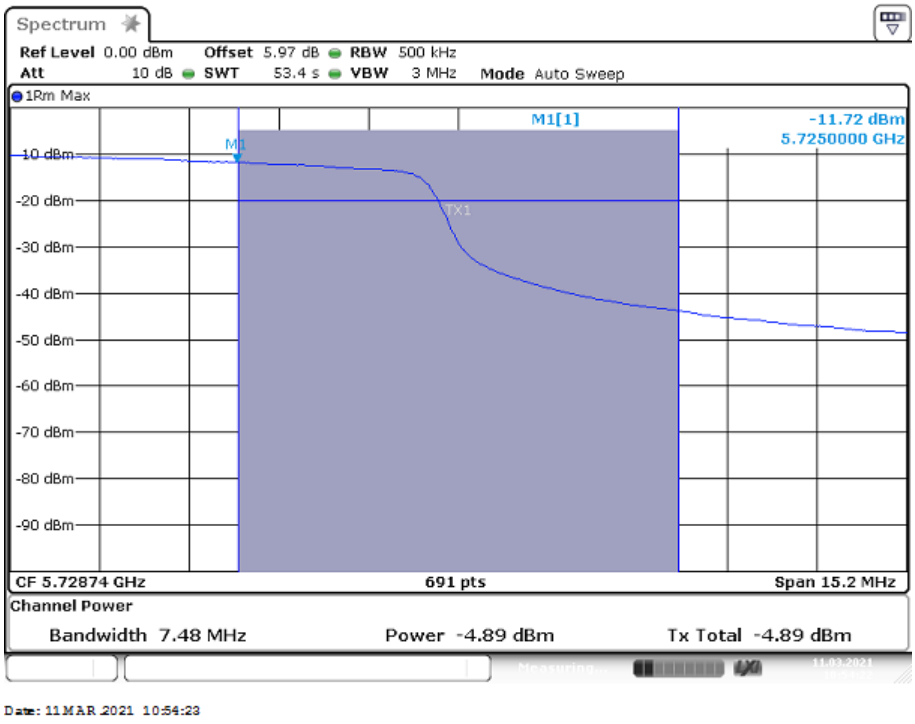
TEST FINISHED		
General Verdict	09.03.2021 15:07:56 / RT: 12 s	INFO

25. FCC Part 15.407 PSD ~ WLAN5Gx n-HT40 mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 10:52:29
Ambit Temp [°C] | Humidity [rel%]	24.7 | 31
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	n40-mode, Power + PSD FCC

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 5.97 | 10
Start [MHz] | Stop [MHz]	5721.140 | 5736.340
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_105231.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

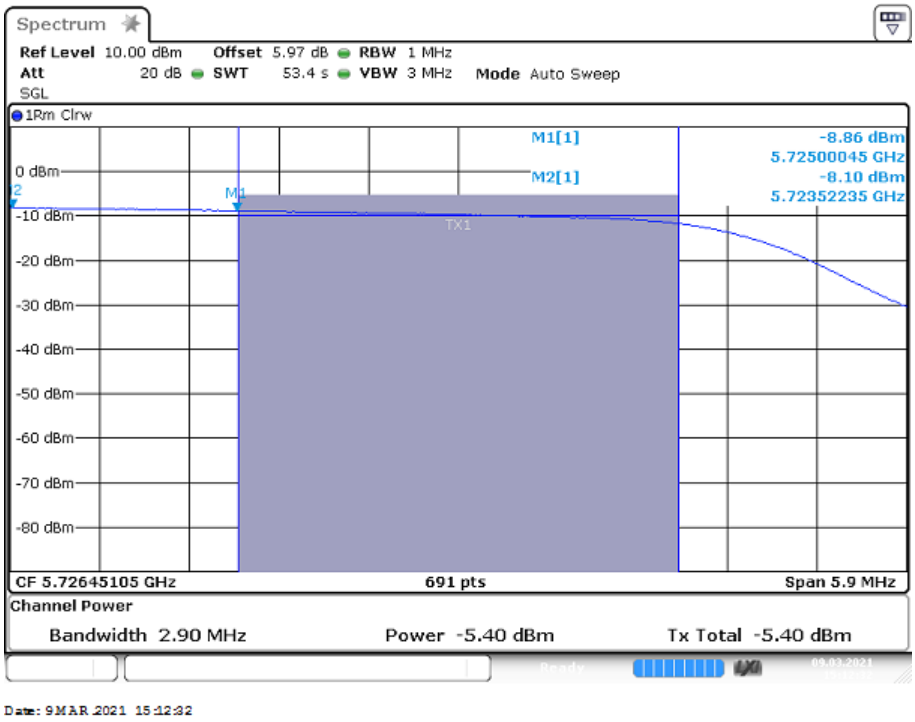
TEST FINISHED			
General Verdict		11.03.2021 10:52:41 / RT: 11 s	INFO

26. ISED Max Output Power ~ WLAN5Gx n-HT40 mode U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 15:10:42
Ambit Temp [°C] | Humidity [rel%]	25.1 | 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	nHT40-mode ISED Power 5720MHz, UNII3, PS4

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 5.97 | 20
Start [MHz] | Stop [MHz]	5723.501 | 5729.401
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_151044.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000450	MHz	Information
Marker 2 Freq.	---	---	5723.522350	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

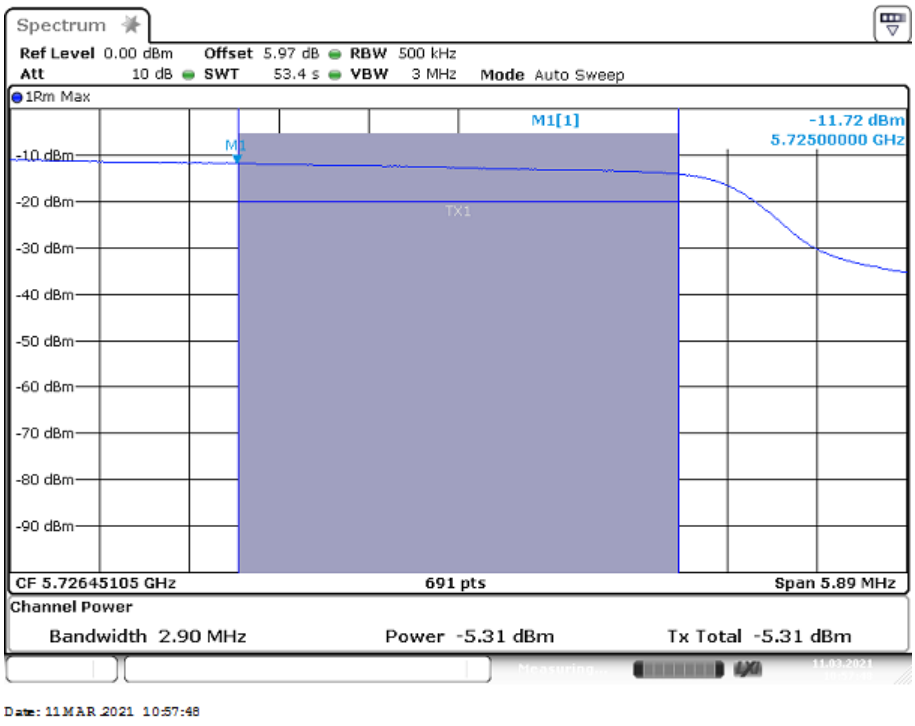
TEST FINISHED			
General Verdict		09.03.2021 15:10:54 / RT: 12 s	INFO

27. ISED PSD ~ WLAN5Gx n-HT40 mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 10:55:55
Ambit Temp [°C] | Humidity [rel%]	24.7 | 31
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	n40-mode, Power + PSD ISED

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 5.97 | 10
Start [MHz] | Stop [MHz]	5723.506 | 5729.396
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_105557.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

TEST FINISHED					
General Verdict		11.03.2021 10:56:07 / RT: 11 s		INFO	

28. Common5Gx Peak OP 3MHz/3MHz ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	09.03.2021 15:31:46
Ambit Temp [°C] | Humidity [rel%]	25.0 | 19
System Version	1.0.1.2
Test Specification	---
Test Method	
Class / TC Version	TC_VM_Common5Gx_PeakOP_3MHz_3MHz_V01 Version: 0.0.1
My Description	Peak OP 3MHz/3MHz - WLAN5Gx ac-VHT80 mode U-NII-2C
Add. Information	

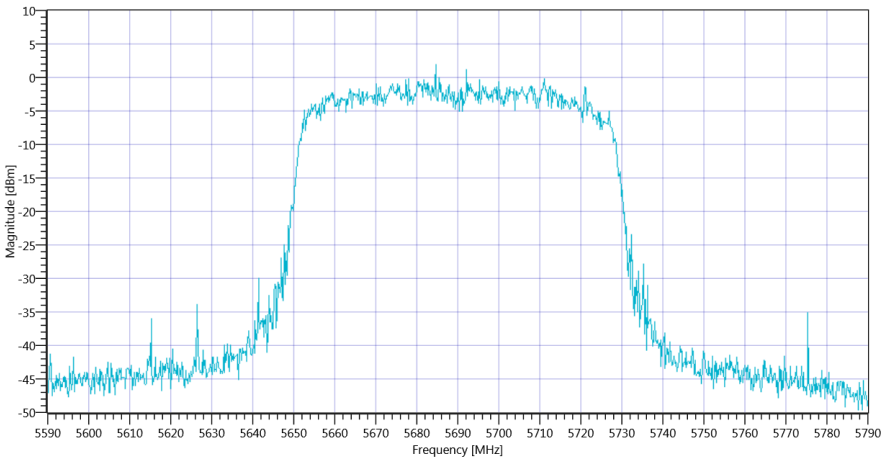
Test Parameter	
Technology to test	WLAN5Gx ac-VHT80 mode U-NII-2C
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False | Freq [MHz] 5530
Frequency mid to test	False | Freq [MHz] 5610
Frequency high to test	True | Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

Test at TX 5690 MHz

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	7.51 | 4.94 | 20
Start [MHz] | Stop [MHz]	5590.000 | 5790.000
RBW [MHz] | VBW [MHz]	3.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 10 | 1001 | SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	1.92	dBm	INFO
Peak Power	---	---	1.555966	mW	INFO
Frequency at Peak	---	---	5684.61	MHz	INFO



Plot_Common5Gx Peak OP 3MHz-3MHz ~ WLAN5Gx ac-VHT80 mode U-NII-2C_09032021_153202.png

TEST FINISHED		
General Verdict	09.03.2021 15:32:03 / RT: 16 s	PASS

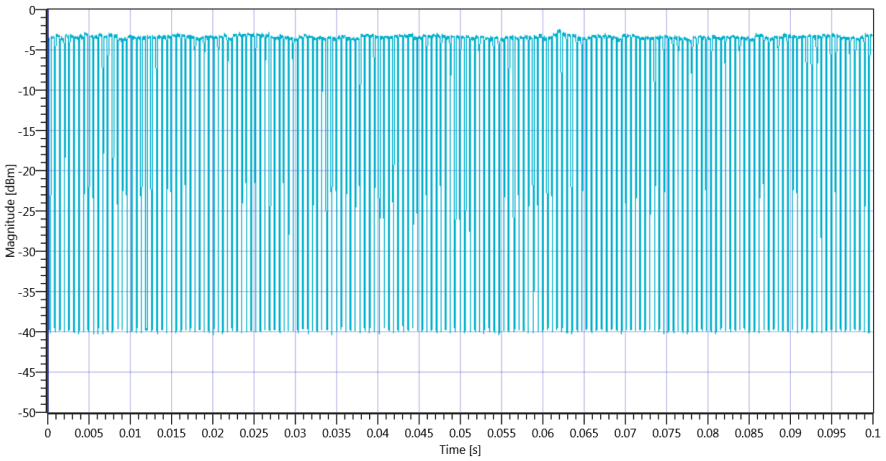
29. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	09.03.2021 15:32:07
Ambit Temp [°C] | Humidity [rel%]	25.0 | 19
System Version	1.0.1.2
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	False | Freq [MHz] 5610
Frequency high to test	True | Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

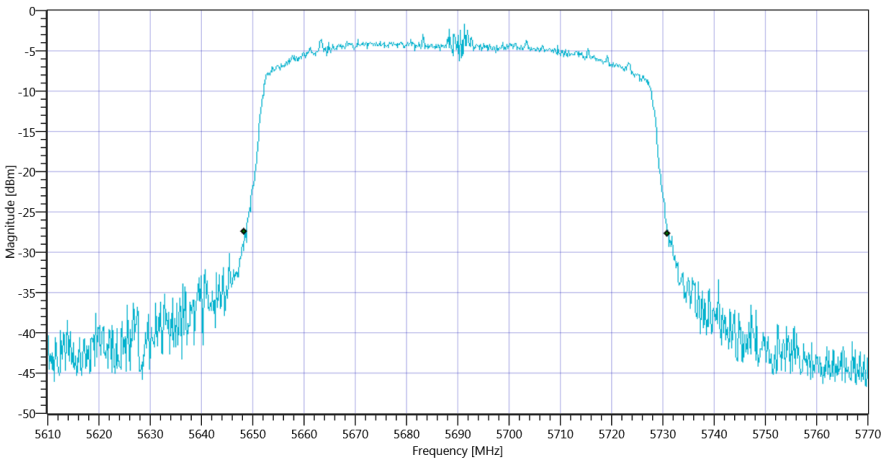
Test at TX 5690 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:171					
Duty Cycle (Burst Ratio) max	---	---	0.783	---	INFO
Duty Cycle max	---	---	1.062	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.654	---	INFO
Duty Cycle min	---	---	1.844	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.225	ms	INFO



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C 5690 MHz - DutyCycle_09032021_153223.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 26dB	---	---	82.56	MHz	INFO
T1 26dB	---	---	5648.4000	MHz	INFO
T2 26dB	---	---	5730.9600	MHz	INFO

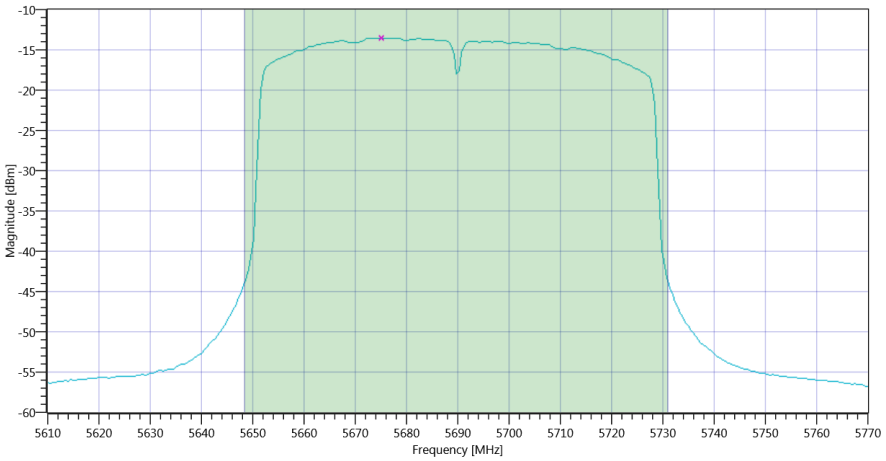


Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C BW_09032021_153235.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	7.70 | 4.94 | 20
Start [MHz] | Stop [MHz]	5610.000 | 5770.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	107000 | 1 | 320 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.91	dBm	INFO
Duty Cycle Correction	---	---	1.84	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	5.75	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	30.17	5.75	dBm	PASS



Plot_FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C Max OP and PSD_09032021_153433.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-13.56	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.84	dB	INFO
Power Spectral Density DC corrected	---	11	-11.72	dBm/1MHz	PASS

TEST FINISHED		
General Verdict	09.03.2021 15:34:35 / RT: 148 s	PASS

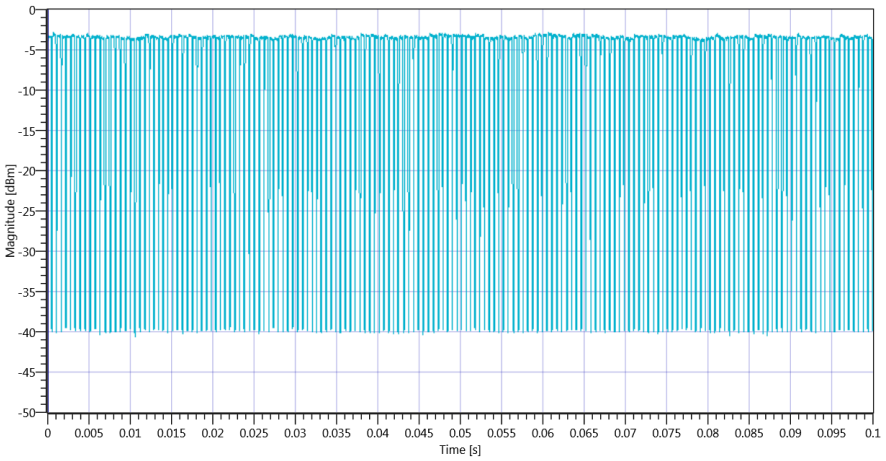
30. ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C

Test References	
TC Start	09.03.2021 15:34:39
Ambit Temp [°C] | Humidity [rel%]	24.9 | 19
System Version	1.0.1.2
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	False | Freq [MHz] 5610
Frequency high to test	True | Freq [MHz] 5690
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

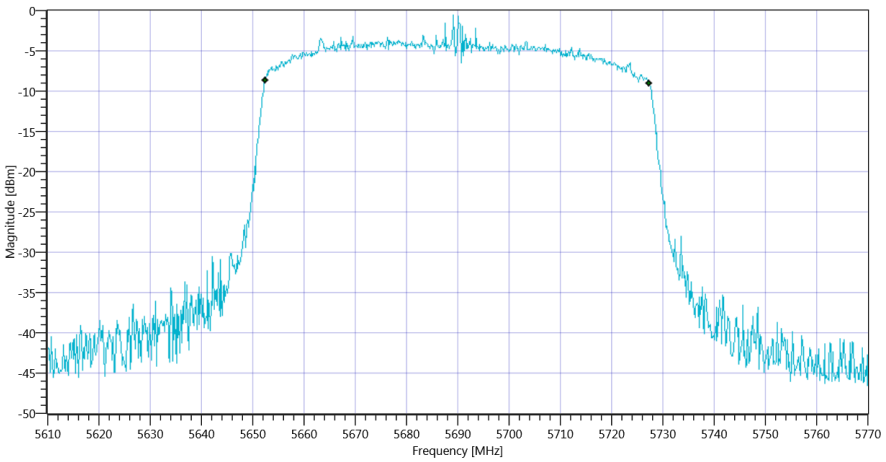
Test at TX 5690 MHz

Duty Cycle evaluation					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Result Duty Cycles					
Result Summary					
Number of detected Bursts:171					
Duty Cycle (Burst Ratio) max	---	---	0.783	---	INFO
Duty Cycle max	---	---	1.062	dB	INFO
Duty Cycle (Burst Ratio) min	---	---	0.654	---	INFO
Duty Cycle min	---	---	1.844	dB	INFO
Max TX Burst Length	---	---	0.45	ms	INFO
Min Gap Length	---	---	0.125	ms	INFO
Max Gap Length	---	---	0.225	ms	INFO



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C 5690 MHz - DutyCycle_09032021_153456.png

RESULT					
Test Description	**Lower Limit**	**Upper Limit**	**Measured**	**Unit**	**Verdict**
Bandwidth 99%	---	---	74.965	MHz	INFO
T1 99%	---	---	5652.4376	MHz	INFO
T2 99%	---	---	5727.4026	MHz	INFO

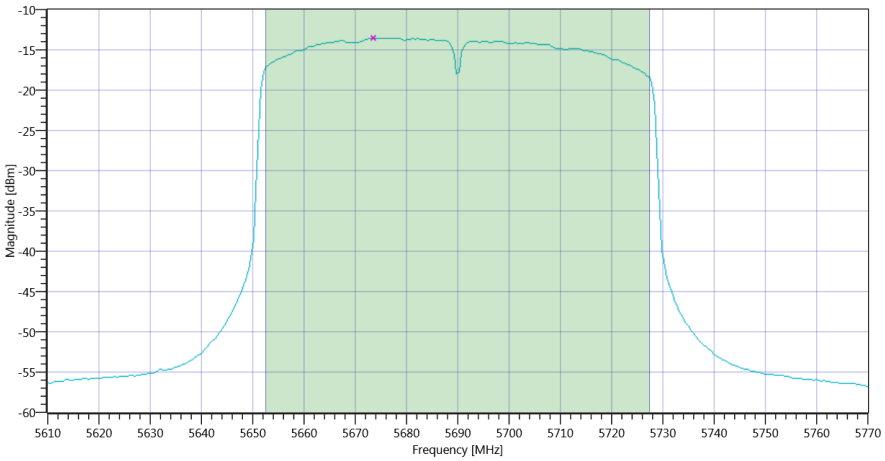


Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C BW_09032021_153508.png

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.08 | 4.94 | 20
Start [MHz] | Stop [MHz]	5610.000 | 5770.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	107000 | 1 | 320 | SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	3.86	dBm	INFO
Duty Cycle Correction	---	---	1.84	dB	INFO
Limit absolute					
Max Output Power DC corrected	---	24	5.7	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	29.75	5.7	dBm	PASS



Plot_ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C Max OP and PSD_09032021_153706.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-13.55	dBm/1MHz	INFO
Duty Cycle Correction	---	---	1.84	dB	INFO
Power Spectral Density DC corrected	---	11	-11.71	dBm/1MHz	PASS

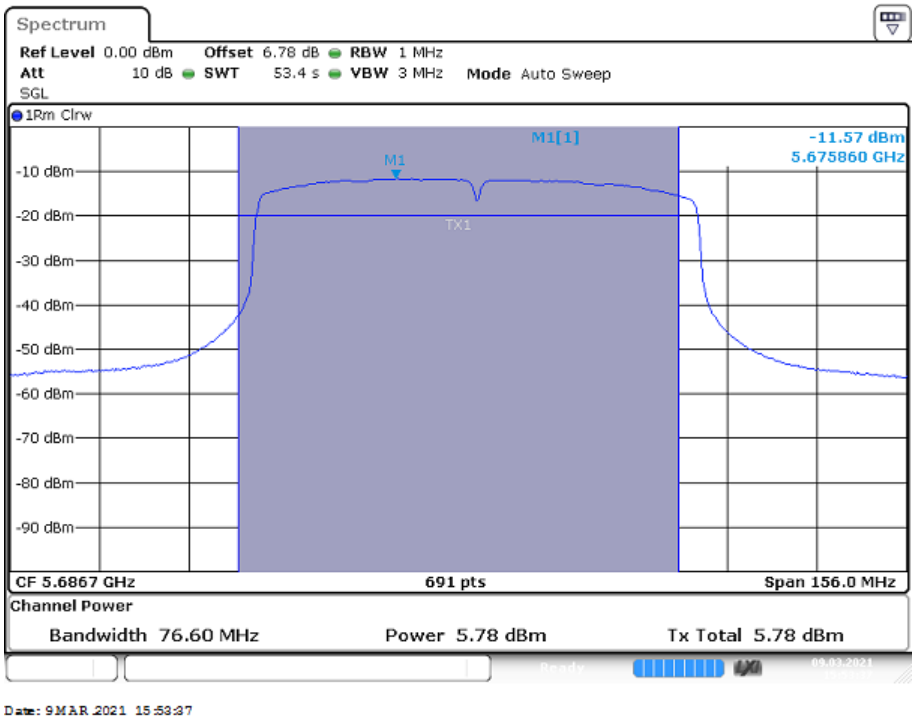
TEST FINISHED		
General Verdict	09.03.2021 15:37:08 / RT: 148 s	PASS

31. FCC Part 15.407 Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C (Overlapped)

Test References	
TC Start	09.03.2021 15:51:47
Ambit Temp [°C] | Humidity [rel%]	25.3 | 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	VHT80-mode FCC Power 5720MHz, UNII2C, PS2

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 6.78 | 10
Start [MHz] | Stop [MHz]	5608.700 | 5764.700
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_155149.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5675.860000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

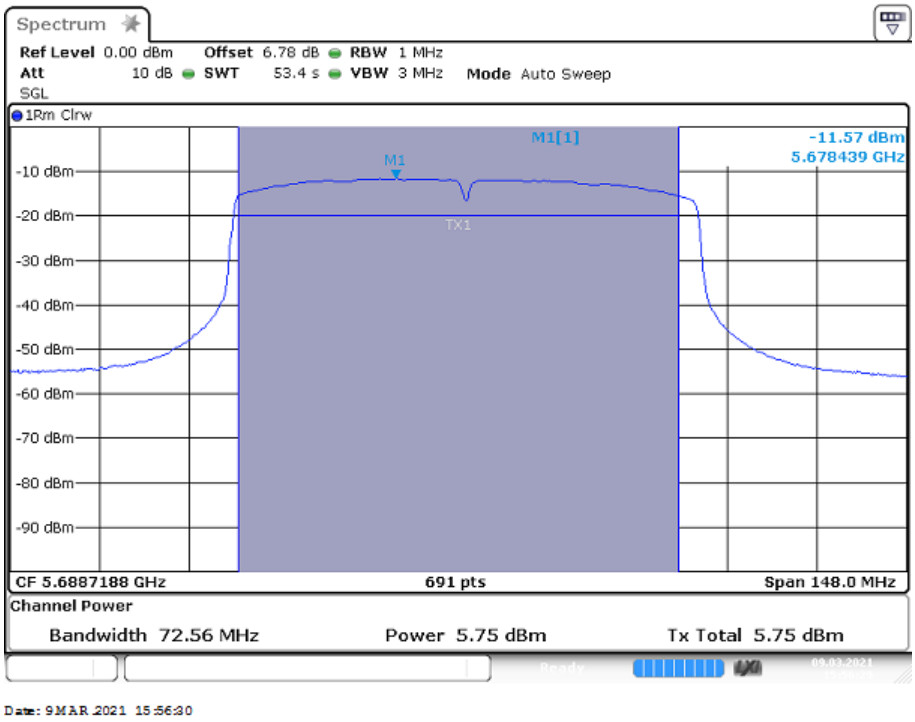
TEST FINISHED			
General Verdict		09.03.2021 15:51:59 / RT: 12 s	INFO

32. ISED Max Output Power and PSD ~ WLAN5Gx ac-VHT80 mode U-NII-2C (Overlapped)

Test References	
TC Start	09.03.2021 15:54:40
Ambit Temp [°C] | Humidity [rel%]	25.3 | 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	VHT80-mode ISED Power 5720MHz, UNII2C, PS2

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 6.78 | 10
Start [MHz] | Stop [MHz]	5614.719 | 5762.719
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_155442.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5678.438800	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

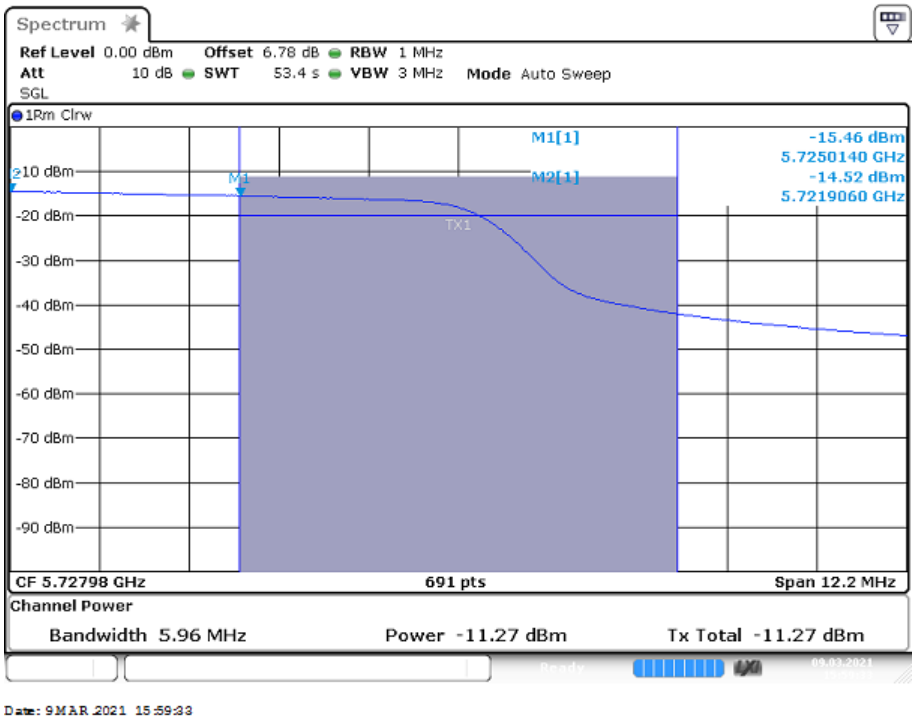
TEST FINISHED		
General Verdict	09.03.2021 15:54:52 / RT: 12 s	INFO

33. FCC Part 15.407 Max Output Power ~ WLAN5Gx ac-VHT80 mode U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 15:57:44
Ambit Temp [°C] | Humidity [rel%]	25.4 | 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	VHT80-mode FCC Power 5720MHz, UNII3, PS2

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 6.78 | 10
Start [MHz] | Stop [MHz]	5721.880 | 5734.080
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_155746.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.014000	MHz	Information
Marker 2 Freq.	---	---	5721.906000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

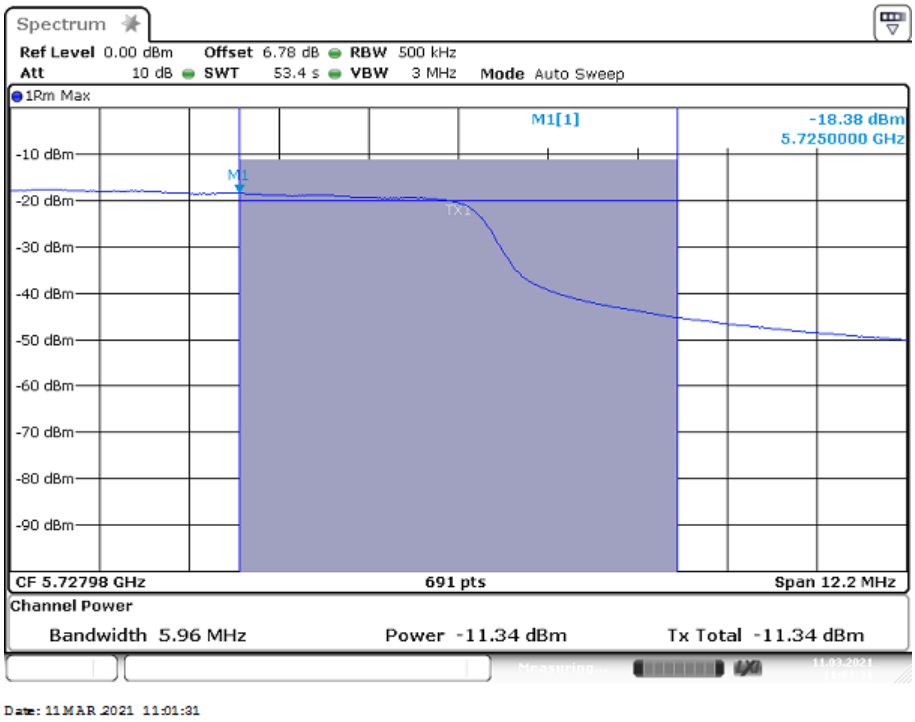
TEST FINISHED		
General Verdict	09.03.2021 15:57:56 / RT: 12 s	INFO

34. FCC Part 15.407 PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 10:59:38
Ambit Temp [°C] | Humidity [rel%]	24.7 | 32
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	VHT80-mode, Power + PSD FCC

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 6.78 | 10
Start [MHz] | Stop [MHz]	5721.880 | 5734.080
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_105940.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

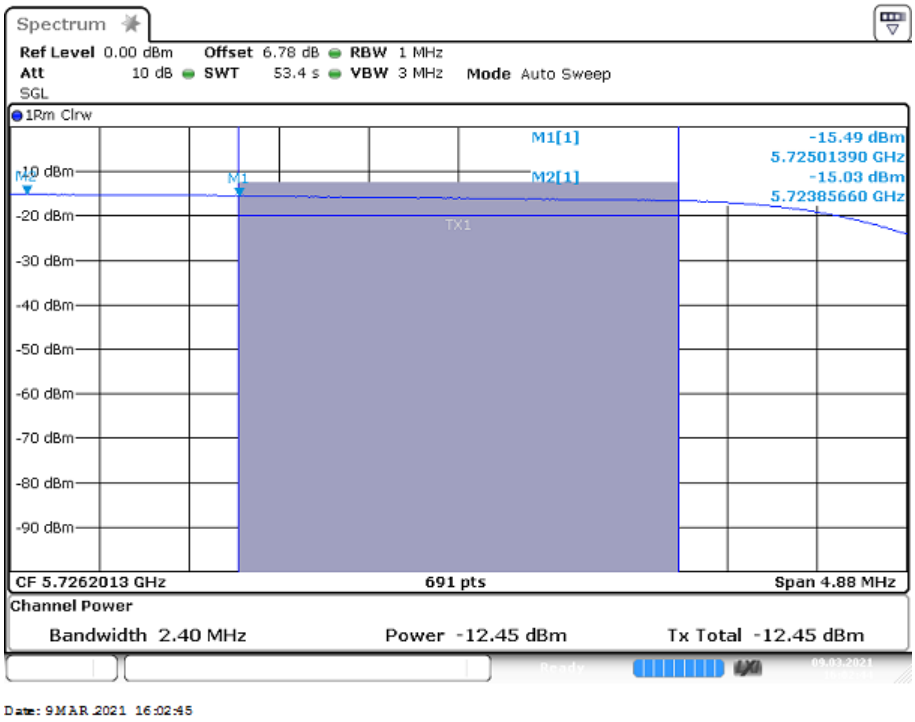
TEST FINISHED			
General Verdict		11.03.2021 10:59:50 / RT: 11 s	INFO

35. ISED Max Output Power ~ WLAN5Gx ac-VHT80 mode U-NII-3 (Overlapped)

Test References	
TC Start	09.03.2021 16:00:55
Ambit Temp [°C] | Humidity [rel%]	25.4 | 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	VHT80-mode ISED Power 5720MHz, UNII3, PS2

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 6.78 | 10
Start [MHz] | Stop [MHz]	5723.761 | 5728.641
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | WRIT
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_09032021_160057.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.013900	MHz	Information
Marker 2 Freq.	---	---	5723.856600	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

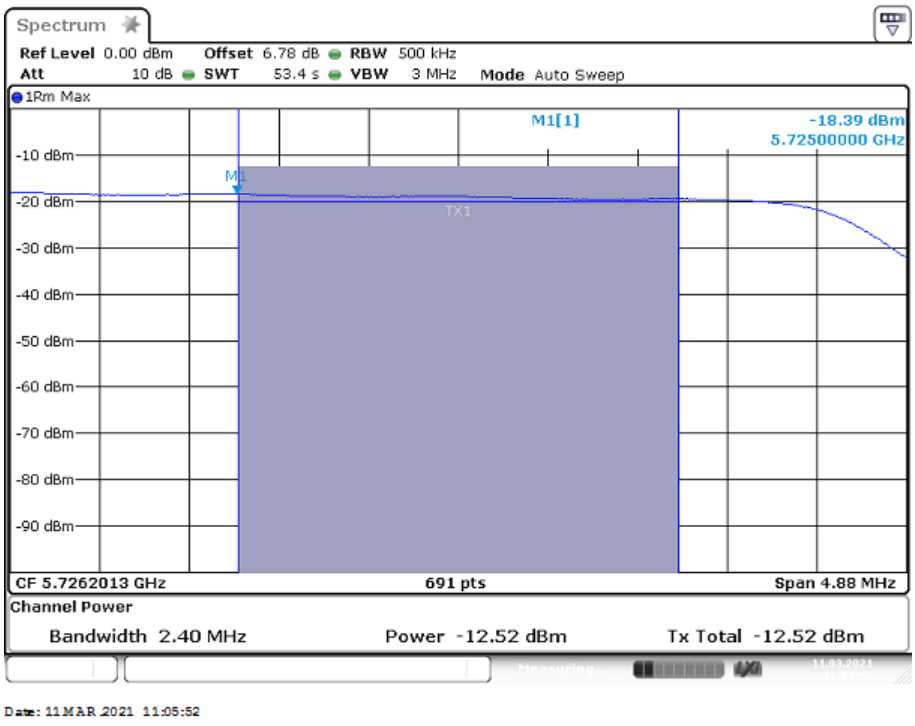
TEST FINISHED			
General Verdict		09.03.2021 16:01:07 / RT: 12 s	INFO

36. ISED PSD ~ WLAN5Gx ac-VHT80 mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 11:03:59
Ambit Temp [°C] | Humidity [rel%]	24.8 | 32
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	VHT80-mode, Power + PSD ISED

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 6.78 | 10
Start [MHz] | Stop [MHz]	5723.761 | 5728.641
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	53400 | 0 | 691 | SWE



HC_11032021_110401.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5725.000000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

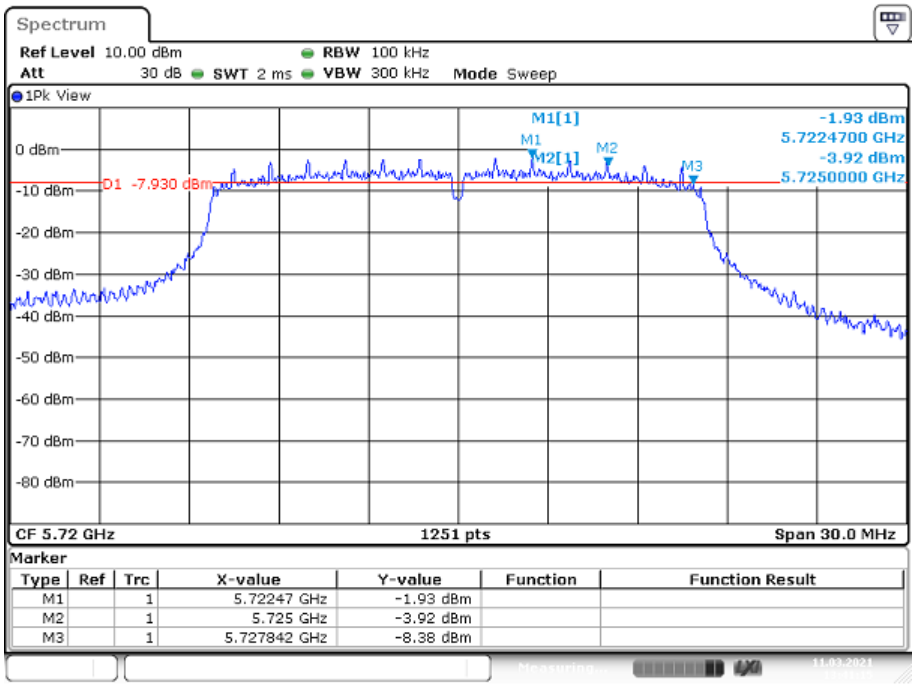
TEST FINISHED					
General Verdict		11.03.2021 11:04:11 / RT: 11 s		INFO	

37. ISED 6dB BW ~ WLAN5Gx a mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 13:39:22
Ambit Temp [°C] | Humidity [rel%]	24.7 | 32
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	a-mode, U-NII-3, 6dB BW (Overlapping Channel)

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 0 | 30
Start [MHz] | Stop [MHz]	5705.000 | 5735.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | VIEW
Sweep: Time [ms] | Count | Points per Section | Type	2 | 0 | 1251 | SWE



HC_11032021_133924.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5722.470000	MHz	Information
Marker 2 Freq.	---	---	5725.000000	MHz	Information
Marker 3 Freq.	---	---	5727.842000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

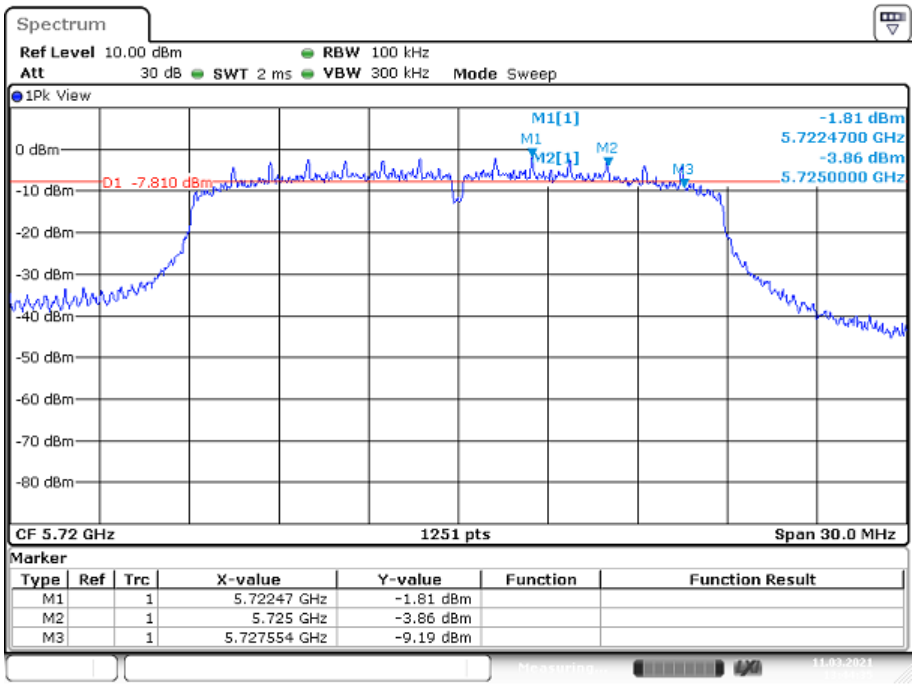
TEST FINISHED			
General Verdict		11.03.2021 13:39:34 / RT: 12 s	INFO

38. ISED 6dB BW ~ WLAN5Gx n-HT20 U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 13:42:43
Ambit Temp [°C] | Humidity [rel%]	24.7 | 32
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	n20-mode, U-NII-3, 6dB BW (Overlapping Channel)

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.00 | 0 | 30
Start [MHz] | Stop [MHz]	5705.000 | 5735.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | VIEW
Sweep: Time [ms] | Count | Points per Section | Type	2 | 0 | 1251 | SWE



HC_11032021_134245.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5722.470000	MHz	Information
Marker 2 Freq.	---	---	5725.000000	MHz	Information
Marker 3 Freq.	---	---	5727.554000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

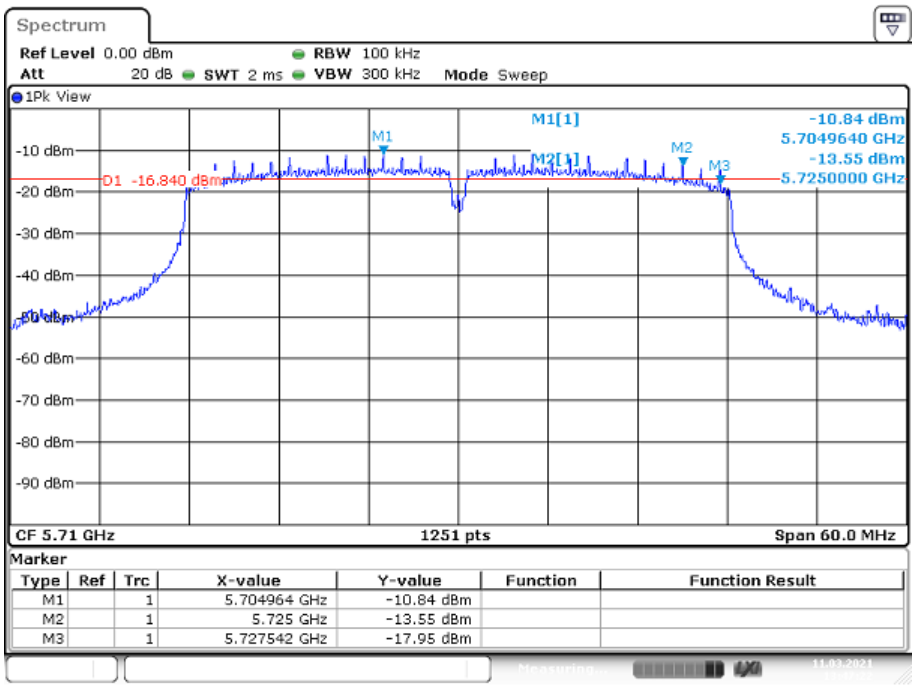
TEST FINISHED		
General Verdict	11.03.2021 13:42:55 / RT: 11 s	INFO

39. ISED 6dB BW ~ WLAN5Gx n-HT40 mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 13:45:29
Ambit Temp [°C] | Humidity [rel%]	24.7 | 32
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	n40-mode, U-NII-3, 6dB BW (Overlapping Channel)

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 0 | 20
Start [MHz] | Stop [MHz]	5680.000 | 5740.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | VIEW
Sweep: Time [ms] | Count | Points per Section | Type	2 | 0 | 1251 | SWE



HC_11032021_134531.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5704.964000	MHz	Information
Marker 2 Freq.	---	---	5725.000000	MHz	Information
Marker 3 Freq.	---	---	5727.542000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

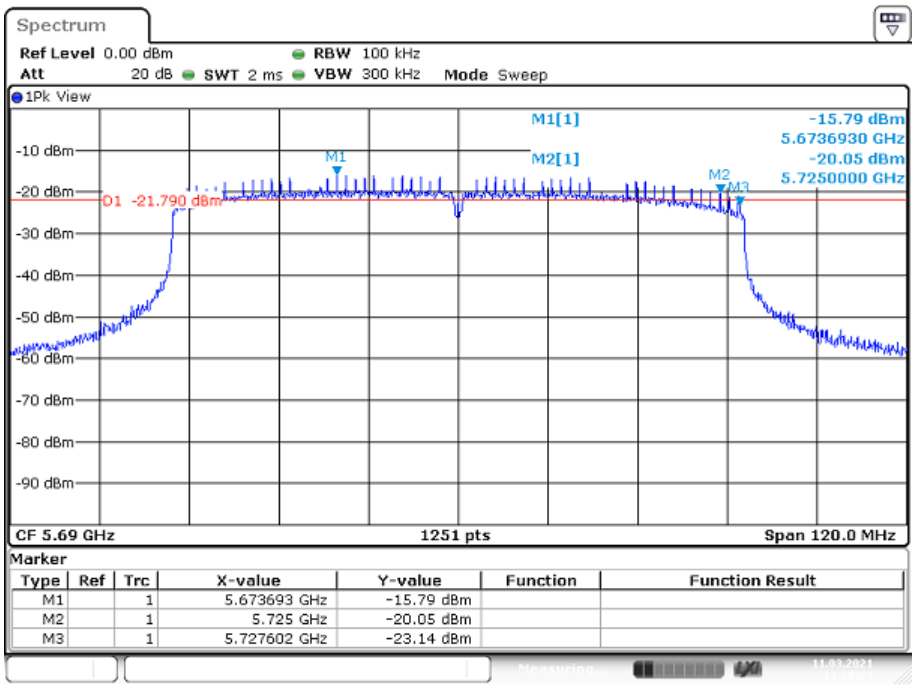
TEST FINISHED		
General Verdict	11.03.2021 13:45:41 / RT: 11 s	INFO

40. ISED 6dB BW ~ WLAN5Gx ac-VHT80 mode U-NII-3 (Overlapped)

Test References	
TC Start	11.03.2021 13:36:31
Ambit Temp [°C] | Humidity [rel%]	24.7 | 32
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	VHT80-mode, U-NII-3, 6dB BW (Overlapping Channel)

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.00 | 0 | 20
Start [MHz] | Stop [MHz]	5630.000 | 5750.000
RBW [MHz] | VBW [MHz]	0.100000 | 0.300000
Detector | TraceMode	POS | VIEW
Sweep: Time [ms] | Count | Points per Section | Type	2 | 0 | 1251 | SWE



HC_11032021_133633.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	5673.693000	MHz	Information
Marker 2 Freq.	---	---	5725.000000	MHz	Information
Marker 3 Freq.	---	---	5727.602000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

TEST FINISHED			
General Verdict		11.03.2021 13:36:43 / RT: 11 s	INFO

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