

Measurement Results

No.1-3734/21-01-05_Annex_MR_A1

Test logging

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

Test/s performed:

Michael Dorongovski
Lab Manager
Radio Communications

Table of Content

EUT Information	5
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C	6
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C	9
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C	12
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C	15
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C	18
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C	21
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C	24
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C	27
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C	30
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C	33
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C	36
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C	39
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C	42
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C	45
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C	48
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C	51
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C	54
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C	57
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3	60
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3	64
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3	68
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3	72
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A	76
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A	79
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A	82
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A	85
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1	88
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1	91
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1	94
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1	97
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3	100
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3	104
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3	108
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3	112
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3	116
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3	120
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A	124
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A	127
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A	130
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A	133
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A	136
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A	139

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1	142
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1	145
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1	148
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1	151
ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1	154
FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1	157
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3	160
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3	164
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3	168
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3	172
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3	176
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3	180
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A	184
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A	187
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A	190
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A	193
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A	196
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A	199
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-1	202
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-1	205
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-1	208
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-1	211
ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-1	214
FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-1	217
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-2C	220
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-2C	224
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-2C	228
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C	232
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C	236
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2C	240
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C	244
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C	248
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2C	252
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-3	256
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-3	260
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-2A	264
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-2A	268
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-1	272
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT40 mode U-NII-1	276
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3	280
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3	284
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-3	288
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2A	292
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2A	296

FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-2A	300
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-1	304
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-1	308
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx n-HT20 mode U-NII-1	312
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-3	316
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-3	320
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-3	324
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A	328
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A	332
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-2A	336
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1	340
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1	344
FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 26dB ~ WLAN5Gx a mode U-NII-1	348
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3	352
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3	354
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3	356
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3	358
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3	360
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3	362
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3	364
FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3	366

EUT Information

EUT DEFINITION	
Manufacturer	Ingenico Group
Type	Xtra module
Serial Number	NI
Setup Number	1.0
Version SW	NI
Version FW	NI
Version HW	NI
Comment 1	
Comment 2	
Temperature [°C] Min	0
Temperature [°C] Nom	20
Temperature [°C] Max	40
Voltage [V] Min	110
Voltage [V] Nom	110
Voltage [V] Max	110

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:39:31
Ambit Temp [°C] Humidity [rel%]	28.0 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	True Freq [MHz] 5670
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5670 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-0.95	dBm	INFO
Ref. Frequency	---	---	5661.410	MHz	INFO

Evaluation max. Duty Cycle

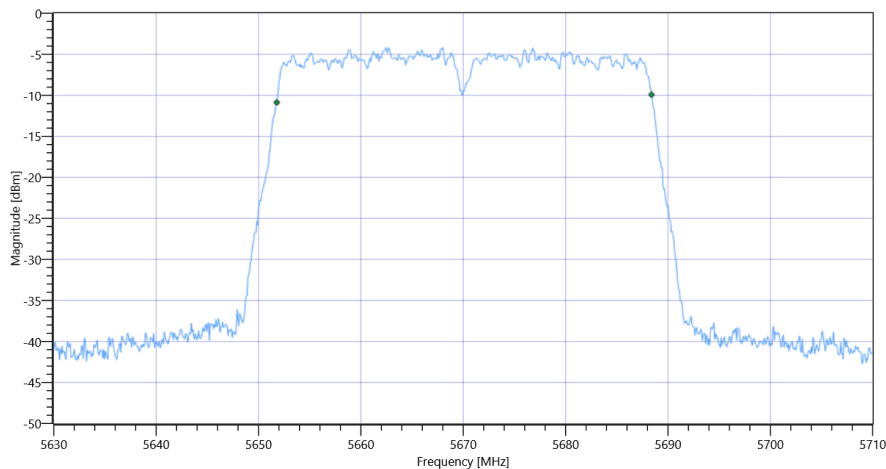
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.603	MHz	INFO
T1 99%	---	---	5651.7782	MHz	INFO
T2 99%	---	---	5688.3816	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

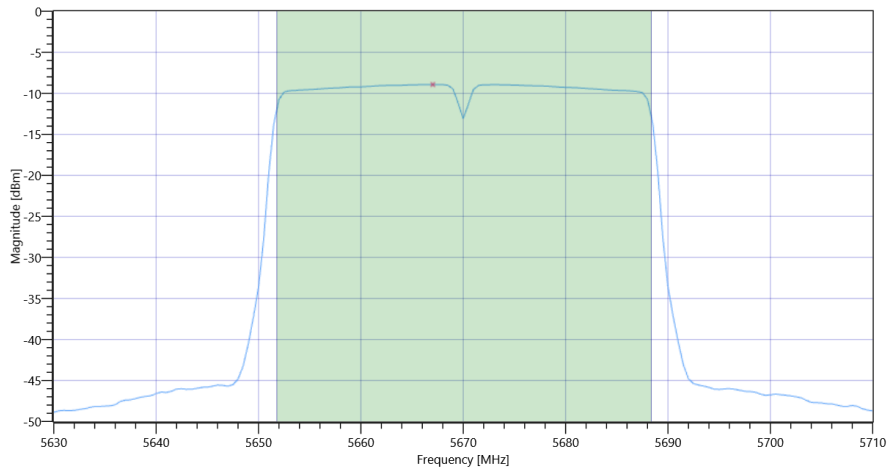
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.05 12.76 15
Start [MHz] Stop [MHz]	5630.000 5710.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.96	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	5.96	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.64	5.96	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.93	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-8.93	dBm/1MHz	PASS

General verdict	PASS
-----------------	-------------

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:37:59
Ambit Temp [°C] Humidity [rel%]	28.0 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	True Freq [MHz] 5670
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5670 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-1.07	dBm	INFO
Ref. Frequency	---	---	5658.410	MHz	INFO

Evaluation max. Duty Cycle

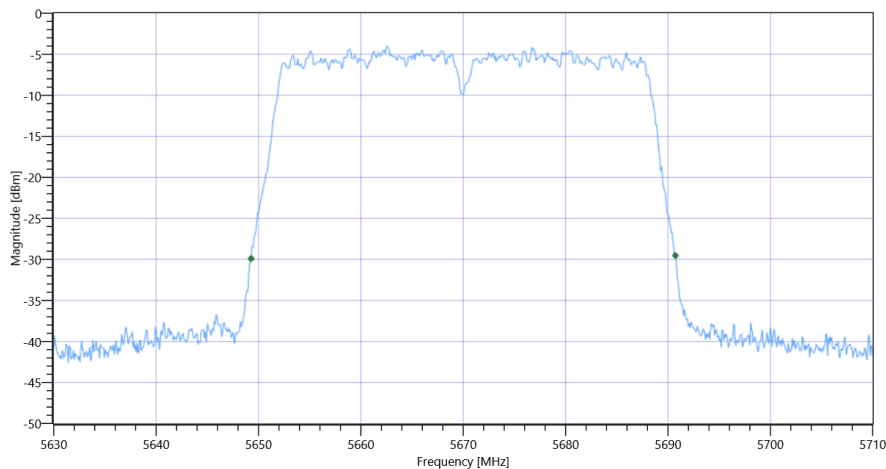
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.44	MHz	INFO
T1 26dB	---	---	5649.2800	MHz	INFO
T2 26dB	---	---	5690.7200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

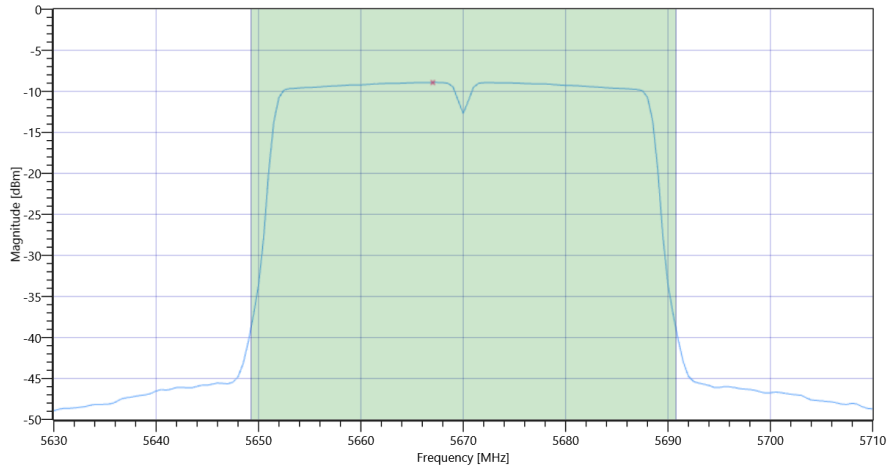
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.93 12.76 15
Start [MHz] Stop [MHz]	5630.000 5710.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	6.01	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	6.01	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.17	6.01	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.93	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-8.93	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:32:55
Ambit Temp [°C] Humidity [rel%]	27.9 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	True Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5590 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-1.69	dBm	INFO
Ref. Frequency	---	---	5582.410	MHz	INFO

Evaluation max. Duty Cycle

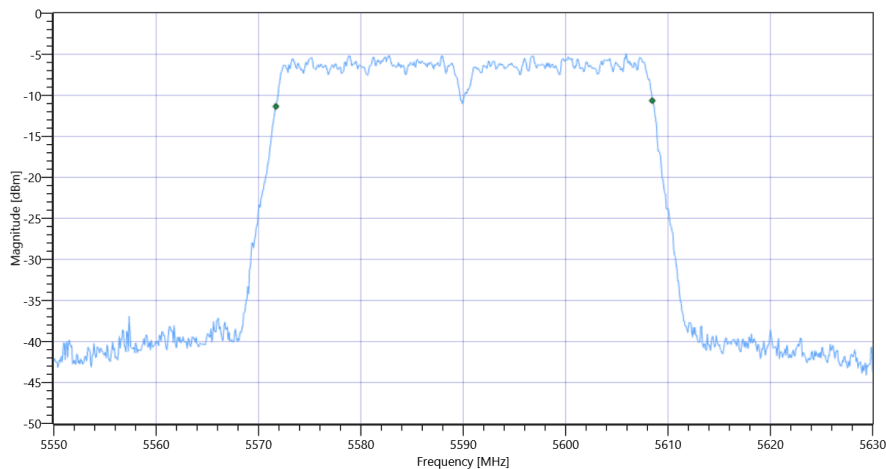
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.763	MHz	INFO
T1 99%	---	---	5571.6983	MHz	INFO
T2 99%	---	---	5608.4615	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

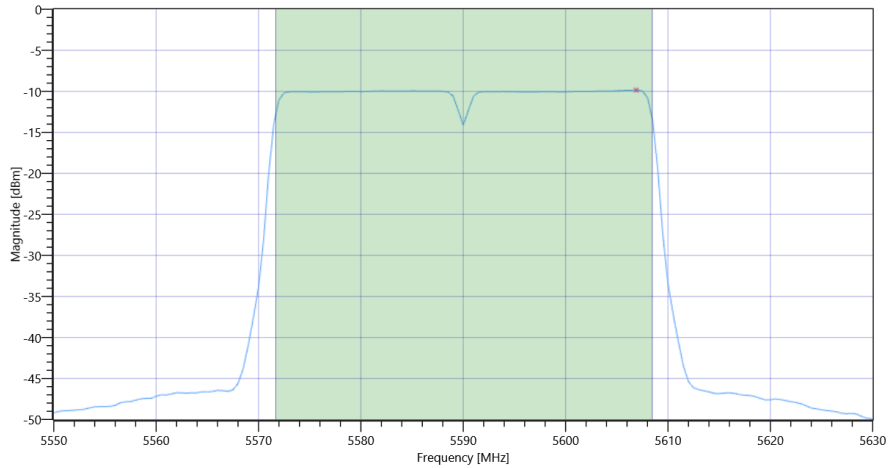
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.31 12.83 15
Start [MHz] Stop [MHz]	5550.000 5630.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.21	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	5.21	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.65	5.21	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.85	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-9.85	dBm/1MHz	PASS

General verdict **PASS**

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:31:23
Ambit Temp [°C] Humidity [rel%]	27.9 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	True Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5590 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-1.73	dBm	INFO
Ref. Frequency	---	---	5607.180	MHz	INFO

Evaluation max. Duty Cycle

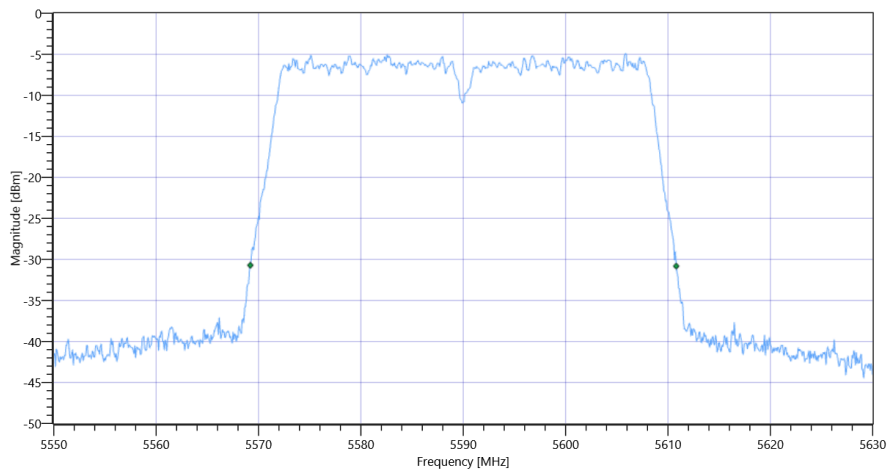
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.6	MHz	INFO
T1 26dB	---	---	5569.2000	MHz	INFO
T2 26dB	---	---	5610.8000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

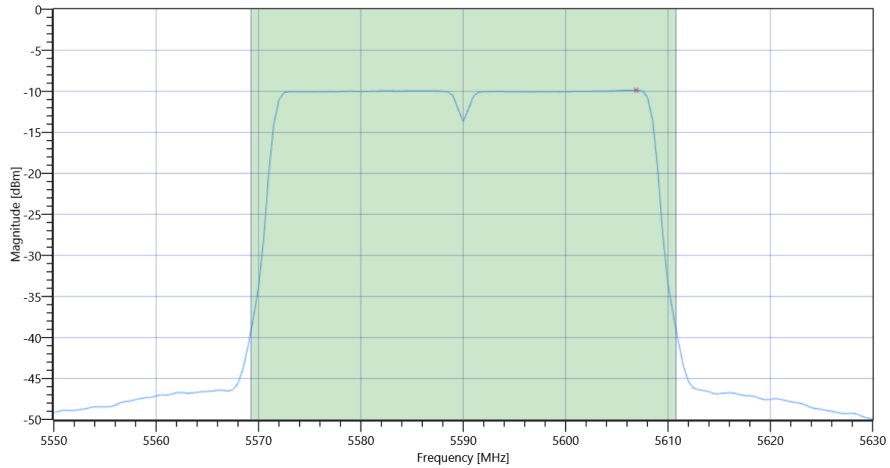
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.27 12.83 15
Start [MHz] Stop [MHz]	5550.000 5630.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.26	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	5.26	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.19	5.26	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.87	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-9.87	dBm/1MHz	PASS

General verdict	PASS
-----------------	-------------

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:22:37
Ambit Temp [°C] Humidity [rel%]	27.9 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5510 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-1.69	dBm	INFO
Ref. Frequency	---	---	5515.990	MHz	INFO

Evaluation max. Duty Cycle

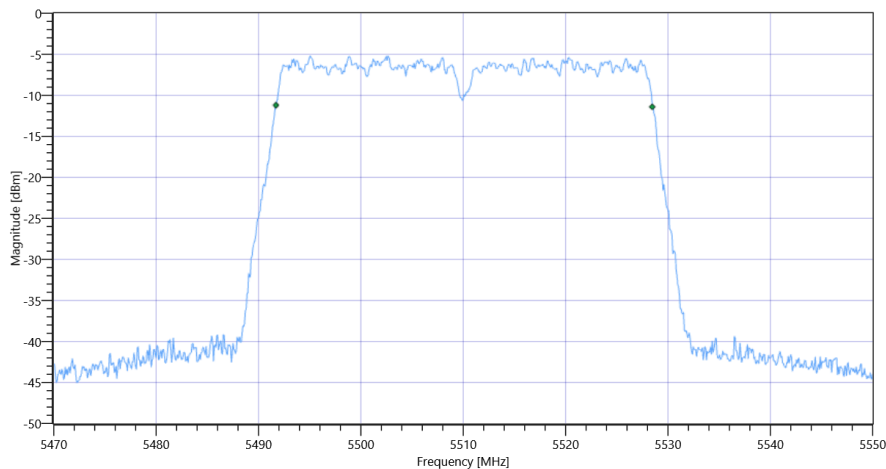
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.763	MHz	INFO
T1 99%	---	---	5491.6983	MHz	INFO
T2 99%	---	---	5528.4615	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

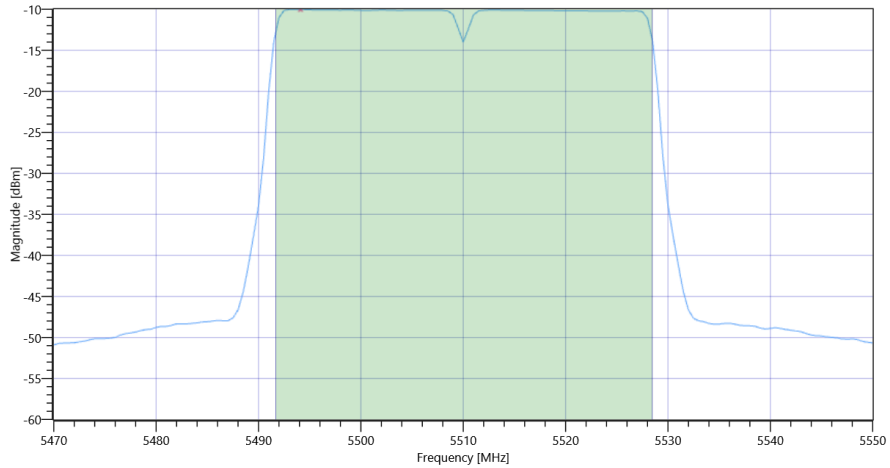
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.31 12.64 15
Start [MHz] Stop [MHz]	5470.000 5550.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.08	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	5.08	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.65	5.08	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-10.02	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-10.02	dBm/1MHz	PASS

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:21:05
Ambit Temp [°C] Humidity [rel%]	27.9 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5510 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-1.74	dBm	INFO
Ref. Frequency	---	---	5513.000	MHz	INFO

Evaluation max. Duty Cycle

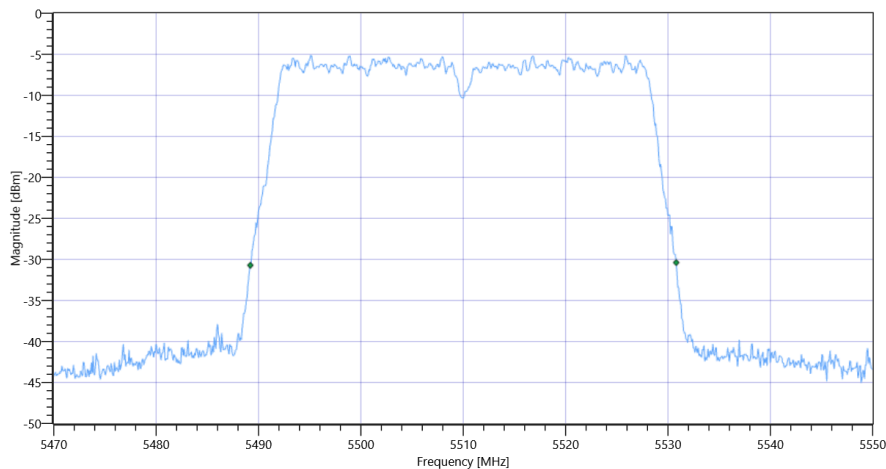
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.6	MHz	INFO
T1 26dB	---	---	5489.2000	MHz	INFO
T2 26dB	---	---	5530.8000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

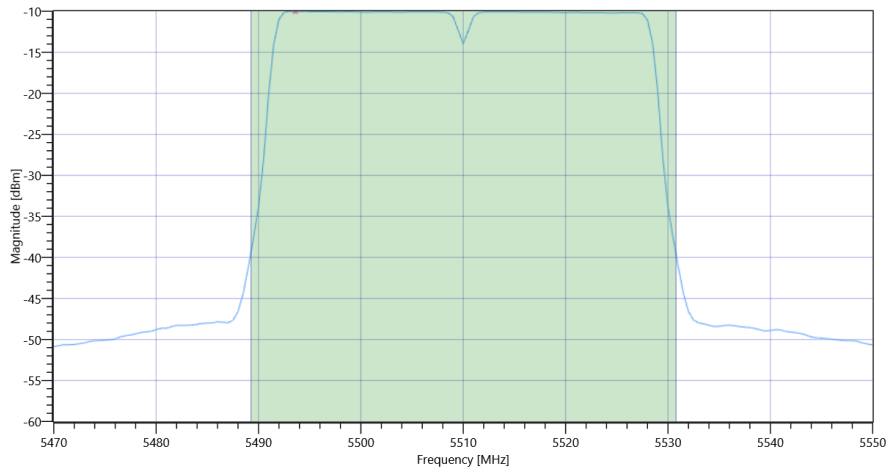
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.26 12.64 15
Start [MHz] Stop [MHz]	5470.000 5550.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.15	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	5.15	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.19	5.15	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-10.02	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-10.02	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:08:26
Ambit Temp [°C] Humidity [rel%]	27.9 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5700 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.82	dBm	INFO
Ref. Frequency	---	---	5707.390	MHz	INFO

Evaluation max. Duty Cycle

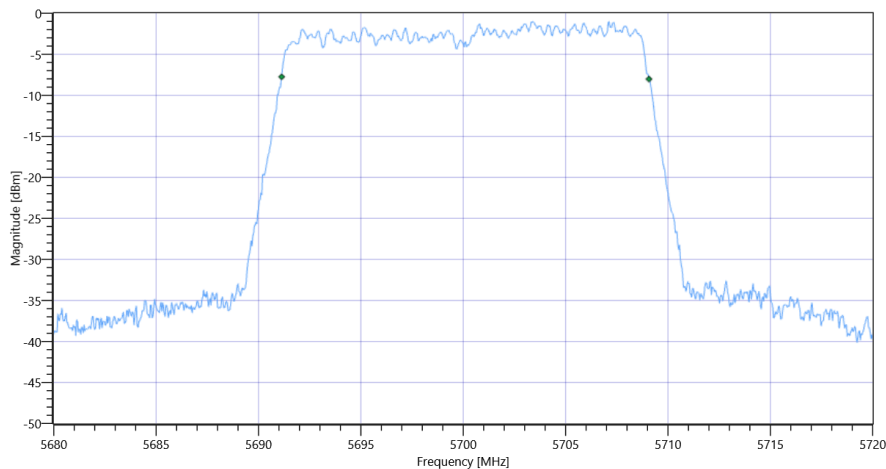
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.942	MHz	INFO
T1 99%	---	---	5691.1289	MHz	INFO
T2 99%	---	---	5709.0709	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

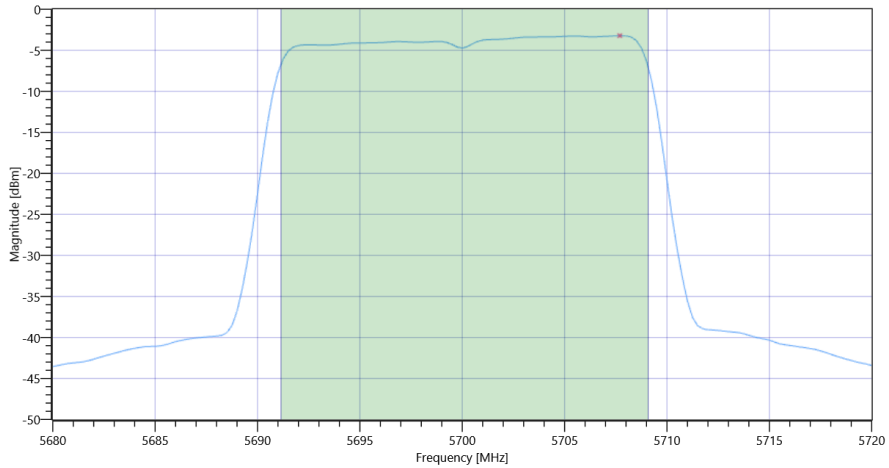
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.82 12.97 20
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	8.36	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	8.36	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.54	8.36	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-3.22	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-3.22	dBm/1MHz	PASS

General verdict	PASS
-----------------	-------------

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	11.07.2022 12:06:55
Ambit Temp [°C] Humidity [rel%]	27.8 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5700 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.71	dBm	INFO
Ref. Frequency	---	---	5703.600	MHz	INFO

Evaluation max. Duty Cycle

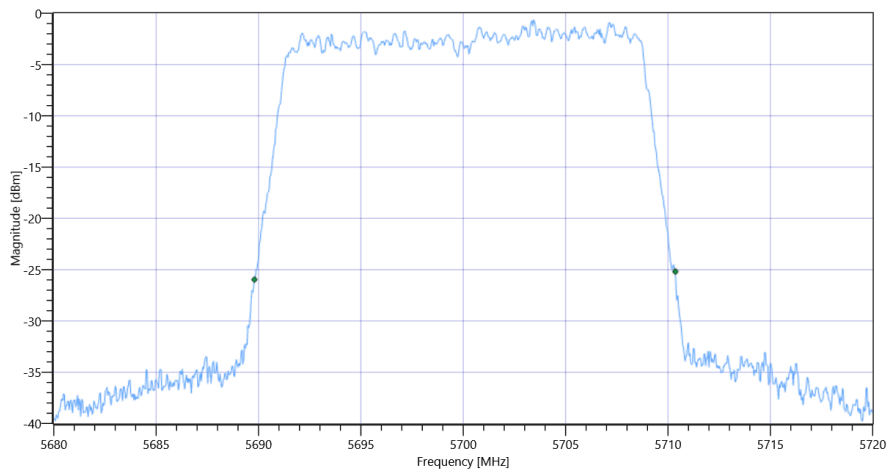
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.56	MHz	INFO
T1 26dB	---	---	5689.8000	MHz	INFO
T2 26dB	---	---	5710.3600	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

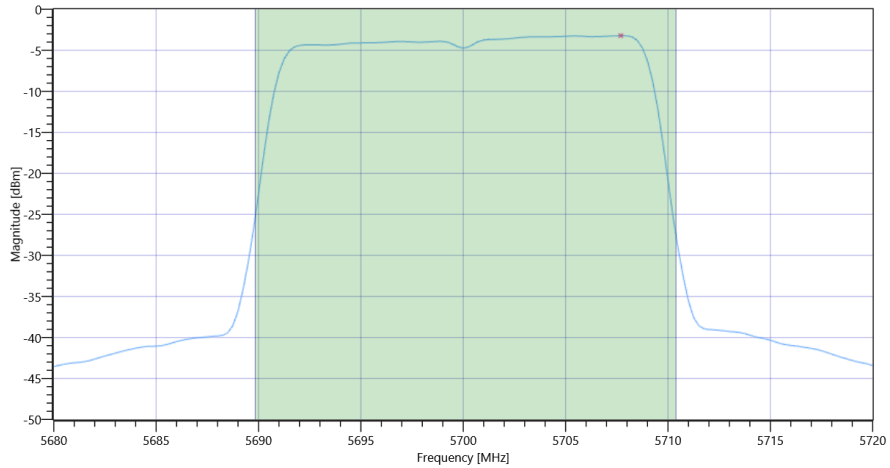
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.71 12.97 20
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	8.45	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	8.45	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.13	8.45	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-3.21	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-3.21	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	11.07.2022 11:06:24
Ambit Temp [°C] Humidity [rel%]	27.6 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.15	dBm	INFO
Ref. Frequency	---	---	5604.600	MHz	INFO

Evaluation max. Duty Cycle

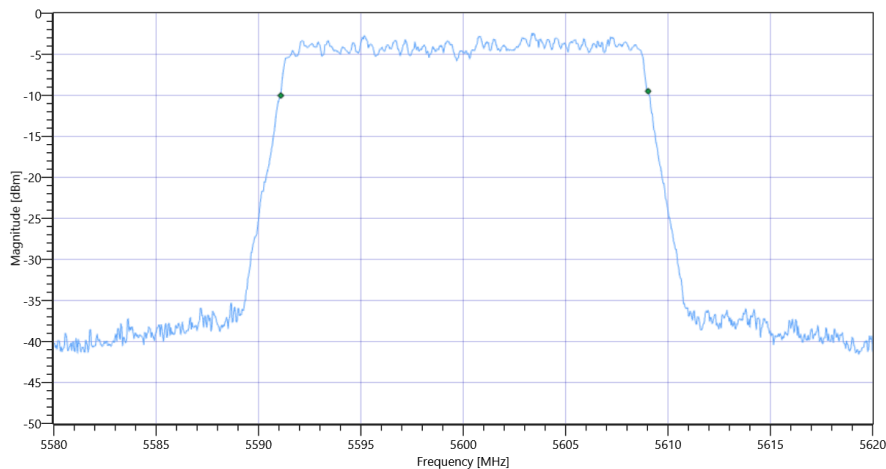
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.942	MHz	INFO
T1 99%	---	---	5591.0889	MHz	INFO
T2 99%	---	---	5609.0310	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

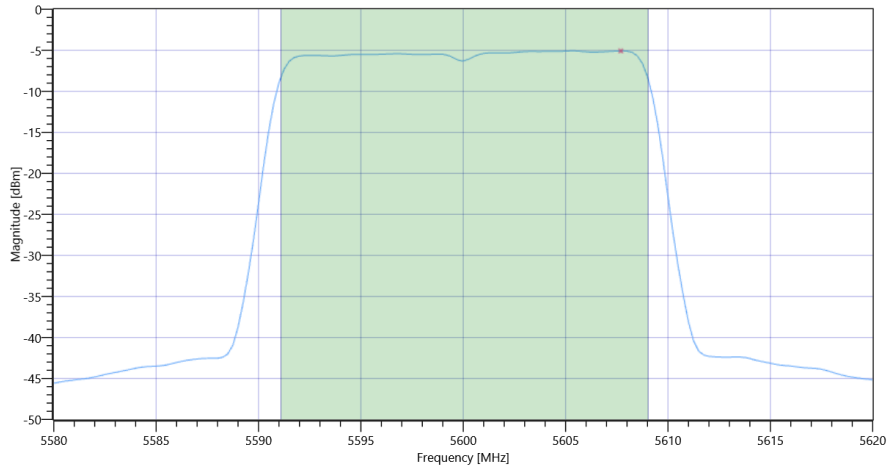
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.15 12.74 20
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	6.76	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	6.76	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.54	6.76	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-5.08	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-5.08	dBm/1MHz	PASS

General verdict **PASS**

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	11.07.2022 11:04:53
Ambit Temp [°C] Humidity [rel%]	27.5 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.19	dBm	INFO
Ref. Frequency	---	---	5603.400	MHz	INFO

Evaluation max. Duty Cycle

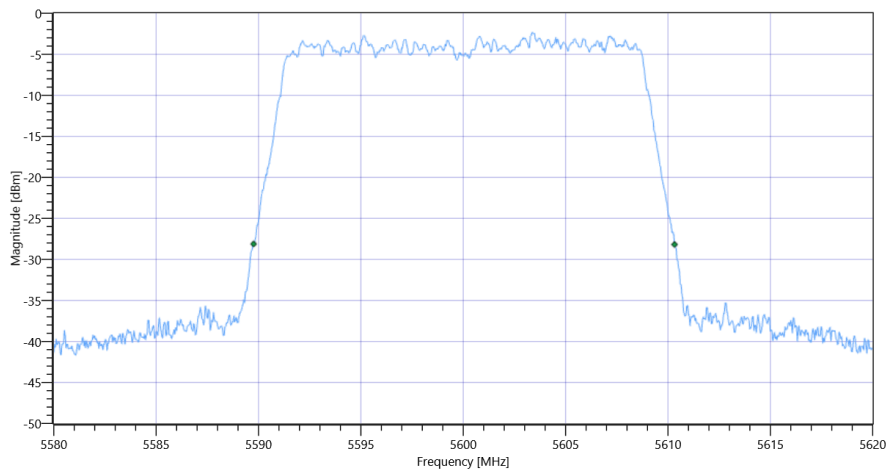
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.56	MHz	INFO
T1 26dB	---	---	5589.7600	MHz	INFO
T2 26dB	---	---	5610.3200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

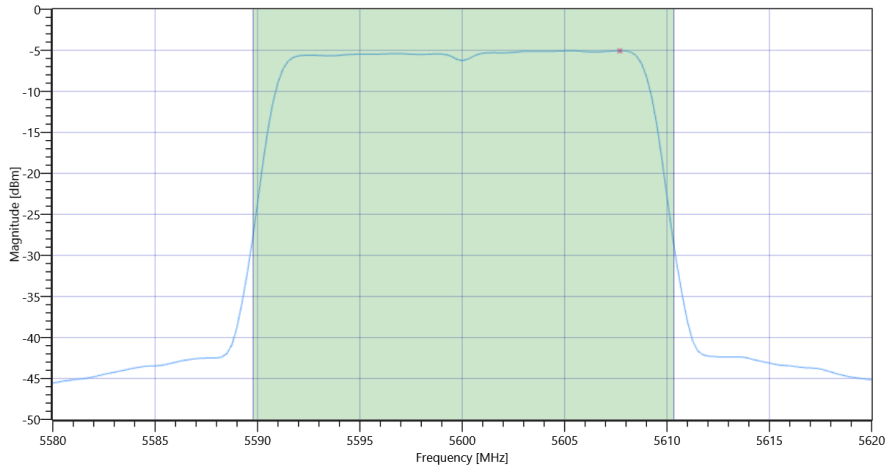
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.19 12.74 20
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	6.86	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	6.86	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.13	6.86	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-5.06	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-5.06	dBm/1MHz	PASS

General verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	11.07.2022 11:01:30
Ambit Temp [°C] Humidity [rel%]	27.6 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.49	dBm	INFO
Ref. Frequency	---	---	5495.400	MHz	INFO

Evaluation max. Duty Cycle

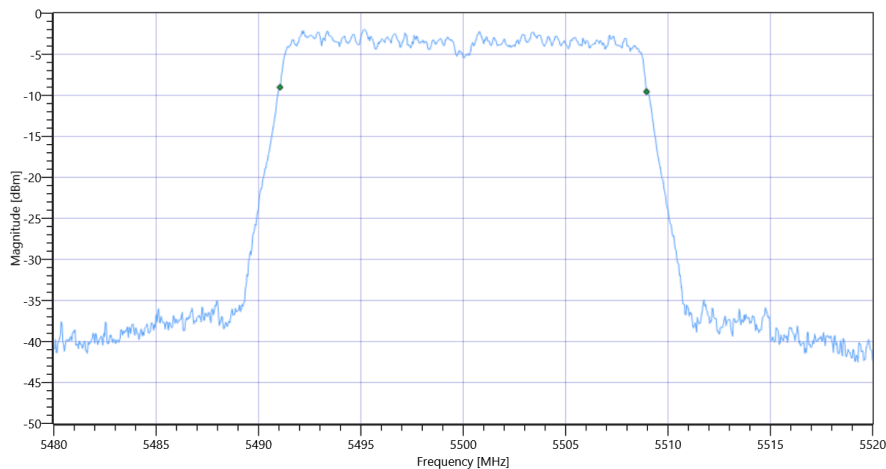
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.902	MHz	INFO
T1 99%	---	---	5491.0490	MHz	INFO
T2 99%	---	---	5508.9510	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

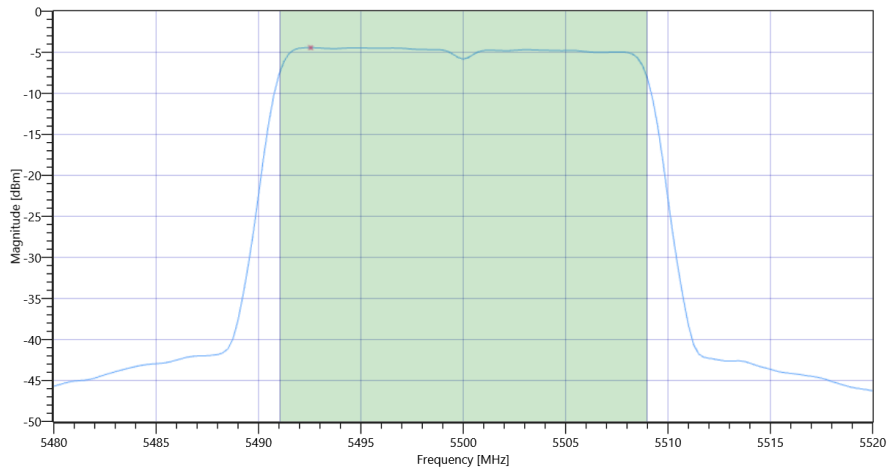
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.49 12.63 20
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.41	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	7.41	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.53	7.41	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-4.44	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-4.44	dBm/1MHz	PASS

General verdict **PASS**

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

Test References	
TC Start	11.07.2022 10:59:59
Ambit Temp [°C] Humidity [rel%]	27.6 38
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.37	dBm	INFO
Ref. Frequency	---	---	5495.200	MHz	INFO

Evaluation max. Duty Cycle

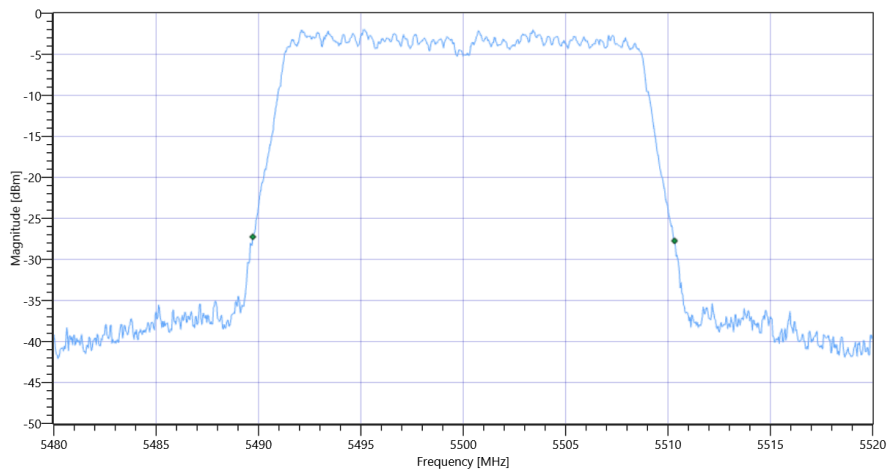
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.6	MHz	INFO
T1 26dB	---	---	5489.7200	MHz	INFO
T2 26dB	---	---	5510.3200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

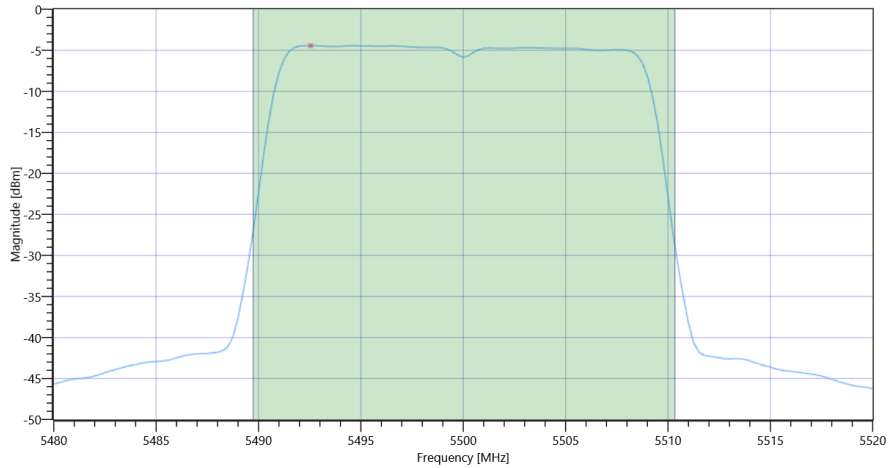
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.37 12.63 20
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.51	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	7.51	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.14	7.51	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-4.43	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-4.43	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	11.07.2022 10:50:34
Ambit Temp [°C] Humidity [rel%]	27.5 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx a mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5700 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.12	dBm	INFO
Ref. Frequency	---	---	5702.800	MHz	INFO

Evaluation max. Duty Cycle

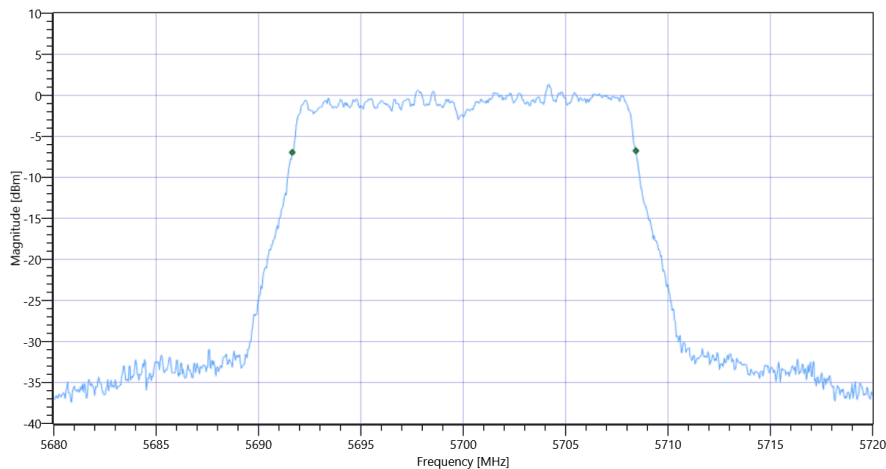
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.783	MHz	INFO
T1 99%	---	---	5691.6484	MHz	INFO
T2 99%	---	---	5708.4316	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

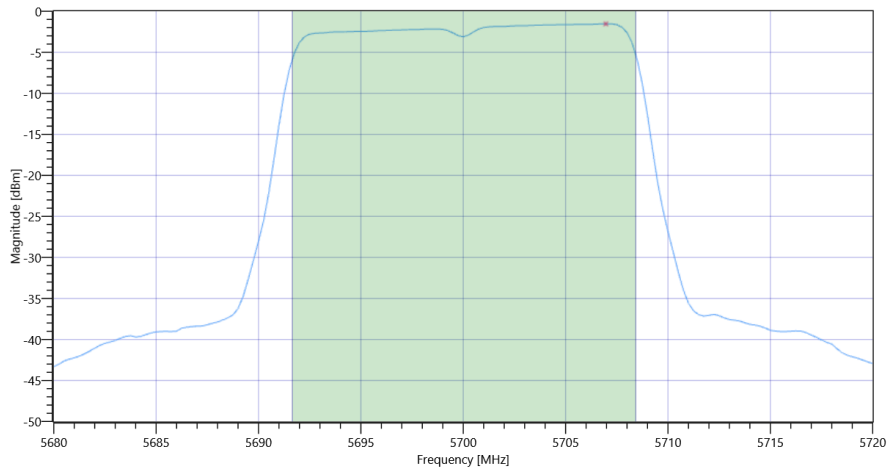
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	18.12 12.97 20
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	9.76	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	9.76	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.25	9.76	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.53	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-1.53	dBm/1MHz	PASS

General verdict **PASS**

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

Test References	
TC Start	11.07.2022 10:49:03
Ambit Temp [°C] Humidity [rel%]	27.5 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx a mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5700 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.33	dBm	INFO
Ref. Frequency	---	---	5707.190	MHz	INFO

Evaluation max. Duty Cycle

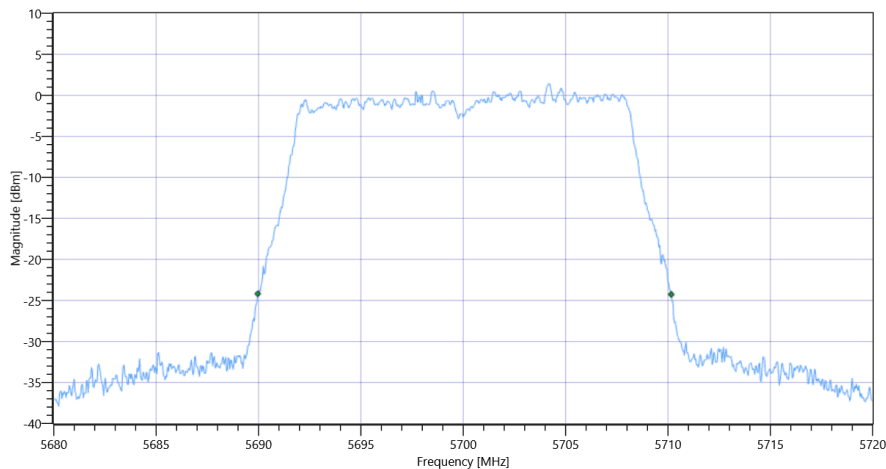
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.2	MHz	INFO
T1 26dB	---	---	5689.9600	MHz	INFO
T2 26dB	---	---	5710.1600	MHz	INFO



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

Maximum Output Power

READ SA SETTINGS:

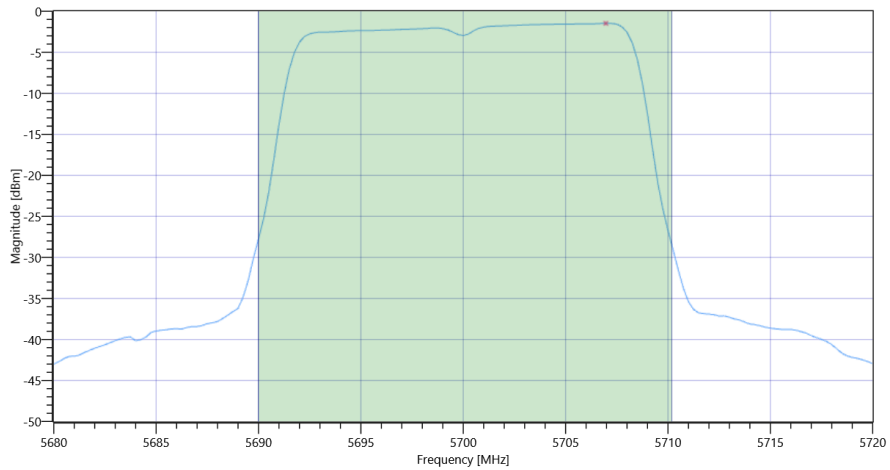
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	18.33 12.97 20
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	9.9	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	9.9	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.05	9.9	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-1.47	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-1.47	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	11.07.2022 10:43:46
Ambit Temp [°C] Humidity [rel%]	27.6 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx a mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.87	dBm	INFO
Ref. Frequency	---	---	5605.390	MHz	INFO

Evaluation max. Duty Cycle

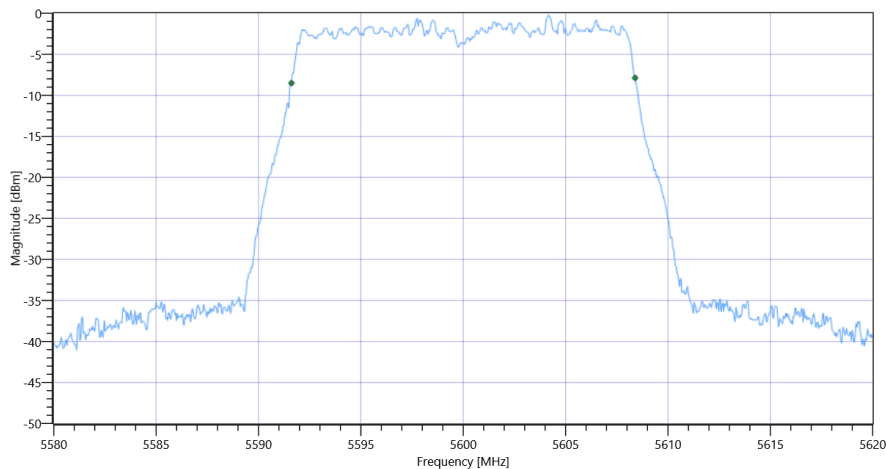
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.783	MHz	INFO
T1 99%	---	---	5591.6084	MHz	INFO
T2 99%	---	---	5608.3916	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

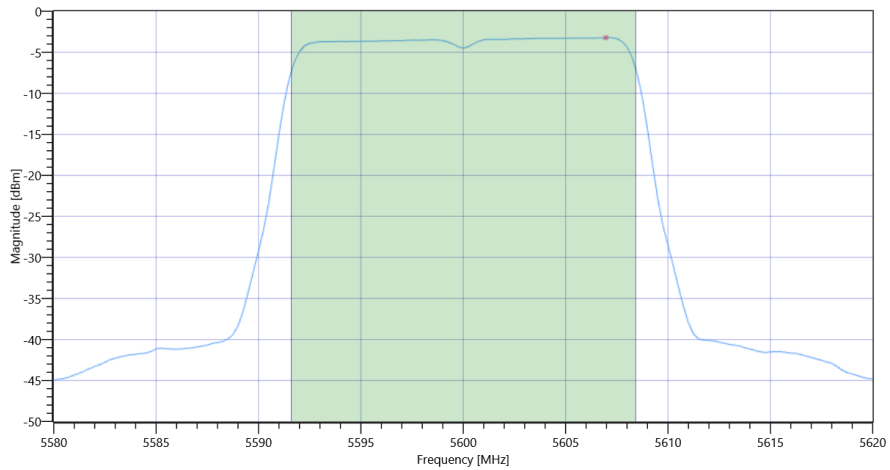
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.87 12.74 20
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	8.31	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	8.31	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.25	8.31	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-3.22	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-3.22	dBm/1MHz	PASS

General verdict **PASS**

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

Test References	
TC Start	11.07.2022 10:42:15
Ambit Temp [°C] Humidity [rel%]	27.6 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx a mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5600 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.74	dBm	INFO
Ref. Frequency	---	---	5605.590	MHz	INFO

Evaluation max. Duty Cycle

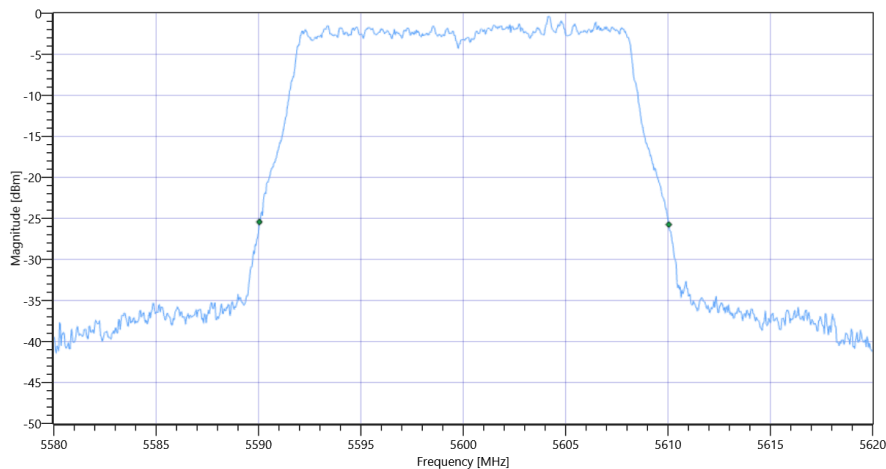
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20	MHz	INFO
T1 26dB	---	---	5590.0400	MHz	INFO
T2 26dB	---	---	5610.0400	MHz	INFO



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

Maximum Output Power

READ SA SETTINGS:

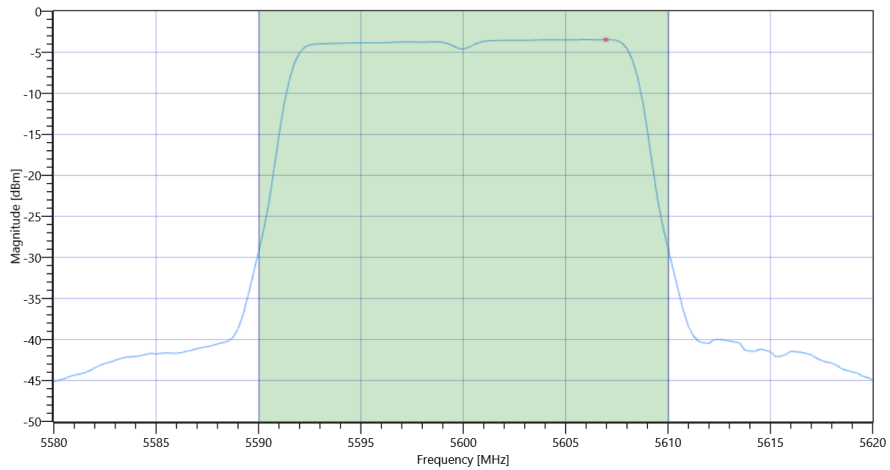
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.74 12.74 20
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	8.19	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	8.19	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.01	8.19	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-3.46	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-3.46	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

Test References	
TC Start	11.07.2022 10:28:06
Ambit Temp [°C] Humidity [rel%]	27.4 39
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx a mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.76	dBm	INFO
Ref. Frequency	---	---	5496.000	MHz	INFO

Evaluation max. Duty Cycle

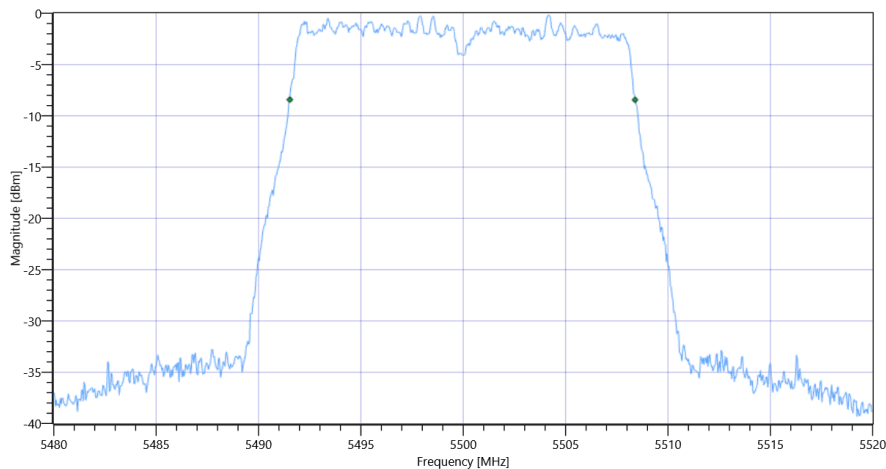
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	16.863	MHz	INFO
T1 99%	---	---	5491.5285	MHz	INFO
T2 99%	---	---	5508.3916	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C_BW

Maximum Output Power

READ SA SETTINGS:

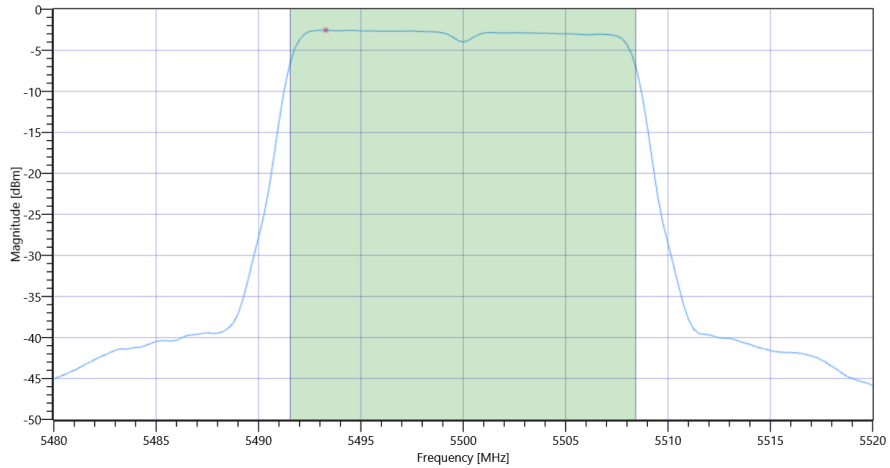
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.76 12.63 20
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	8.98	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	8.98	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.27	8.98	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-2.54	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-2.54	dBm/1MHz	PASS

General verdict **PASS**

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

Test References	
TC Start	11.07.2022 10:26:35
Ambit Temp [°C] Humidity [rel%]	27.5 39
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx a mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5500 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	5.74	dBm	INFO
Ref. Frequency	---	---	5494.410	MHz	INFO

Evaluation max. Duty Cycle

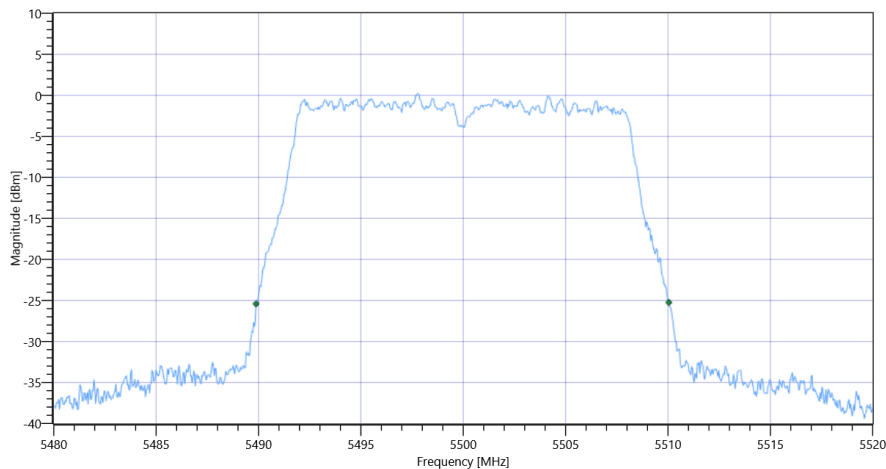
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.16	MHz	INFO
T1 26dB	---	---	5489.8800	MHz	INFO
T2 26dB	---	---	5510.0400	MHz	INFO



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

Maximum Output Power

READ SA SETTINGS:

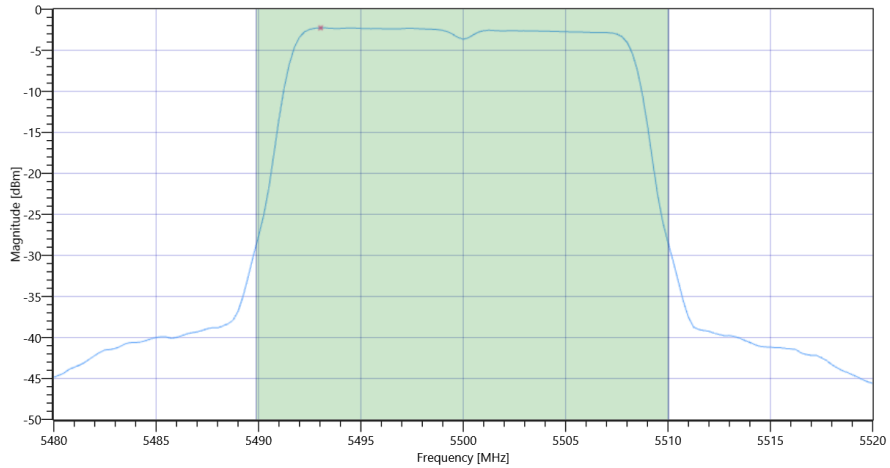
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.74 12.63 20
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	9.32	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	9.32	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.04	9.32	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-2.27	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-2.27	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

Test References	
TC Start	06.07.2022 12:32:36
Ambit Temp [°C] Humidity [rel%]	27.8 28
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5795
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5795 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-0.69	dBm	INFO
Ref. Frequency	---	---	5808.390	MHz	INFO

Evaluation max. Duty Cycle

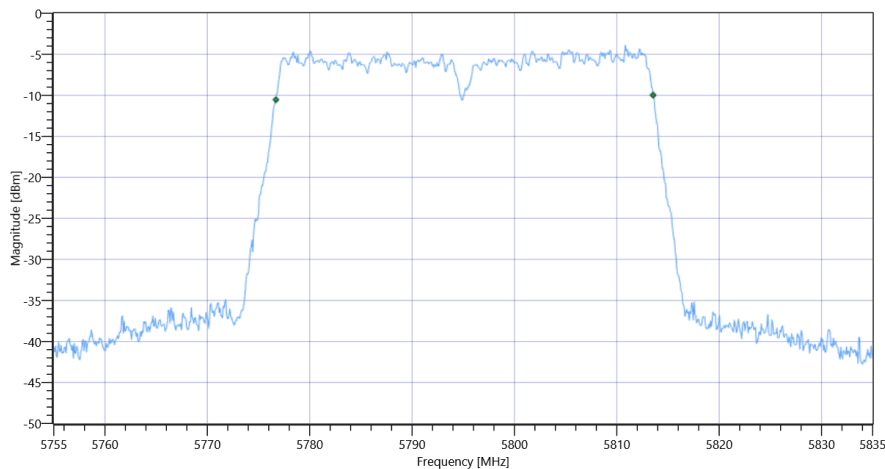
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.843	MHz	INFO
T1 99%	---	---	5776.6983	MHz	INFO
T2 99%	---	---	5813.5415	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

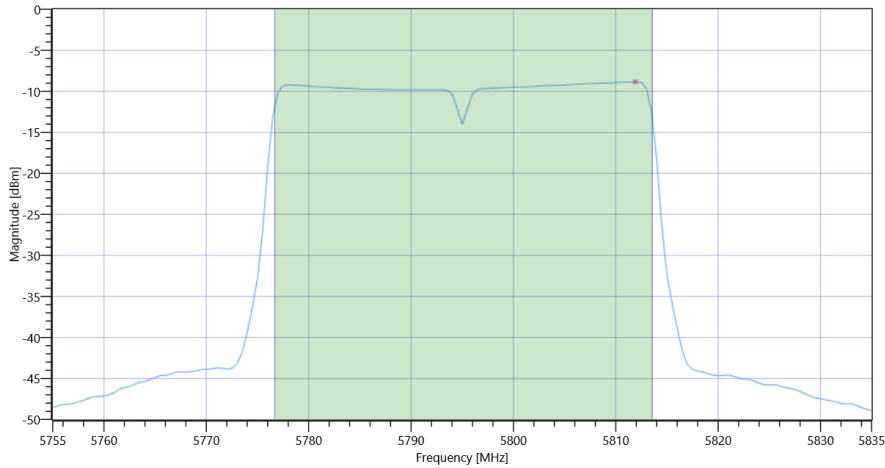
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.31 12.92 15
Start [MHz] Stop [MHz]	5755.000 5835.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.78	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	5.78	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.66	5.78	dBm	not applicable



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 Max OP and PSD

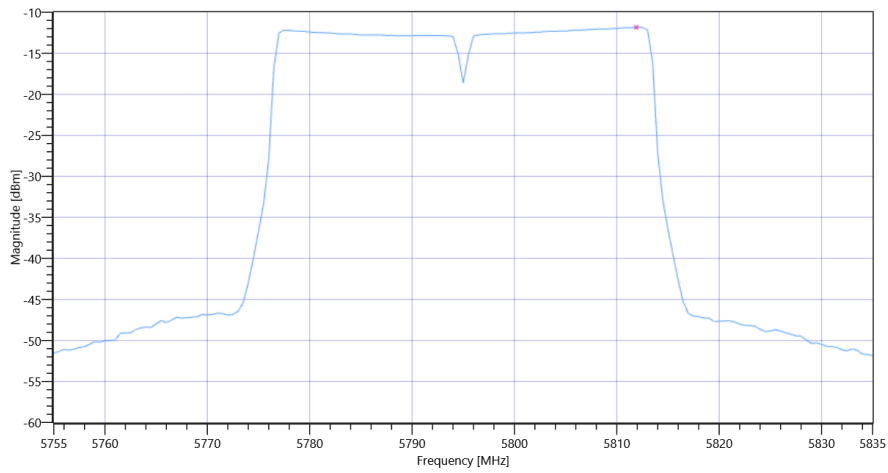
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.31 12.92 15
Start [MHz] Stop [MHz]	5755.000 5835.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-11.84	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-11.84	dBm/0.5MHz	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 PSD UNII-3

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

Test References	
TC Start	06.07.2022 12:29:58
Ambit Temp [°C] Humidity [rel%]	27.8 28
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5795
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5795 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-0.65	dBm	INFO
Ref. Frequency	---	---	5810.180	MHz	INFO

Evaluation max. Duty Cycle

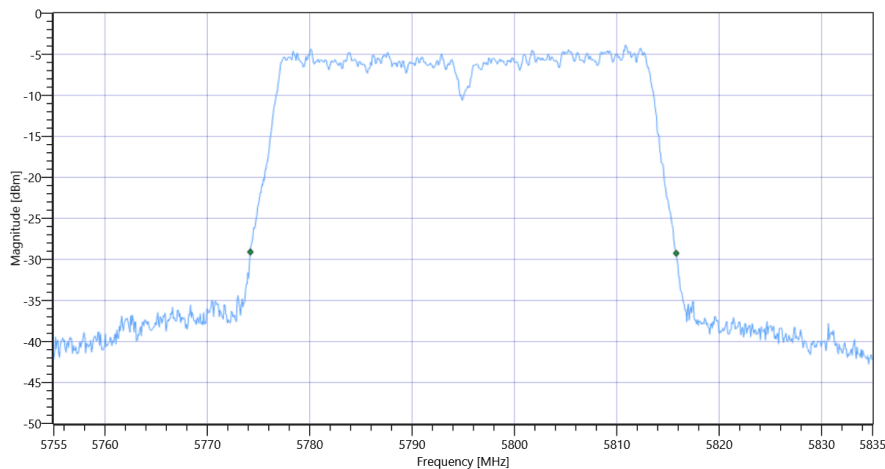
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.6	MHz	INFO
T1 26dB	---	---	5774.2000	MHz	INFO
T2 26dB	---	---	5815.8000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

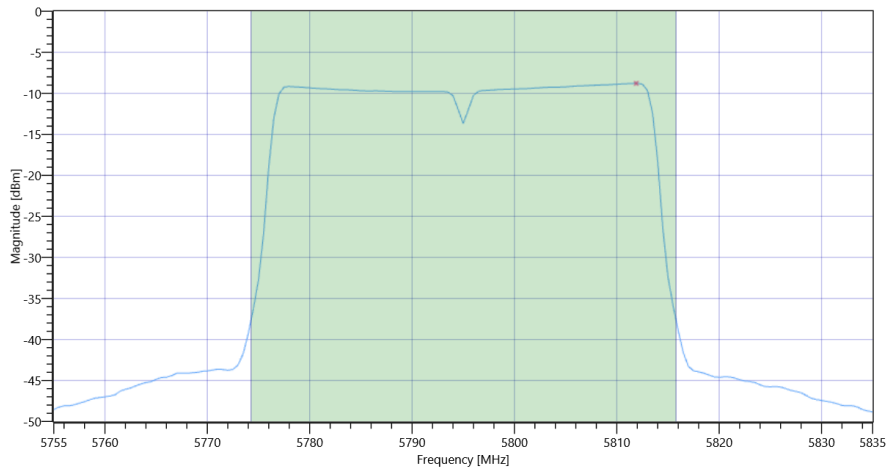
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.35 12.92 15
Start [MHz] Stop [MHz]	5755.000 5835.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	5.87	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	5.87	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.19	5.87	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 Max OP and PSD

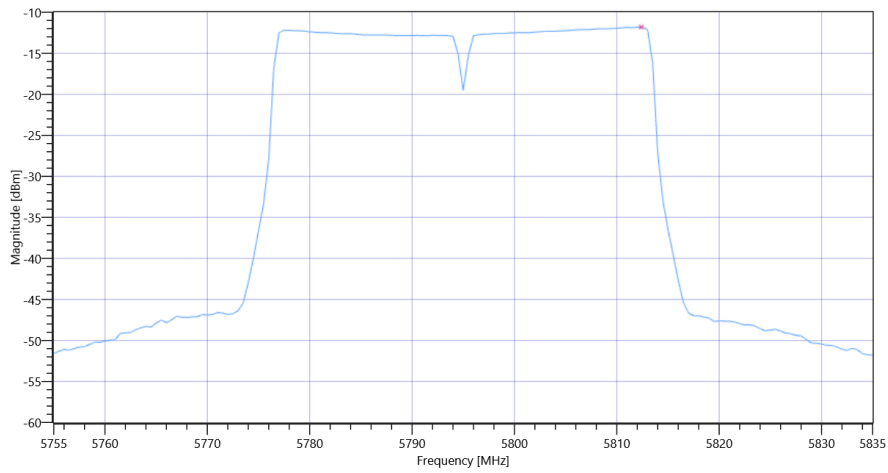
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.35 12.92 15
Start [MHz] Stop [MHz]	5755.000 5835.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-11.81	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-11.81	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 PSD UNII-3

General verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

Test References	
TC Start	06.07.2022 12:24:53
Ambit Temp [°C] Humidity [rel%]	27.6 28
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5795
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5755 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	1.25	dBm	INFO
Ref. Frequency	---	---	5760.390	MHz	INFO

Evaluation max. Duty Cycle

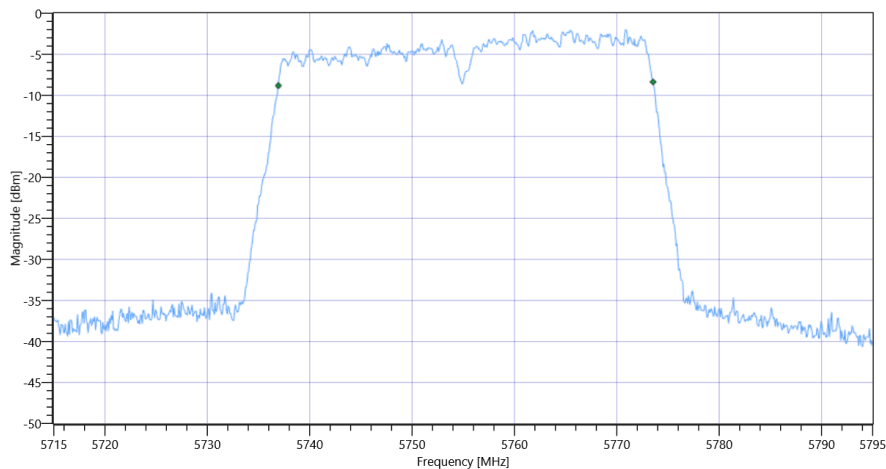
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.603	MHz	INFO
T1 99%	---	---	5736.9381	MHz	INFO
T2 99%	---	---	5773.5415	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

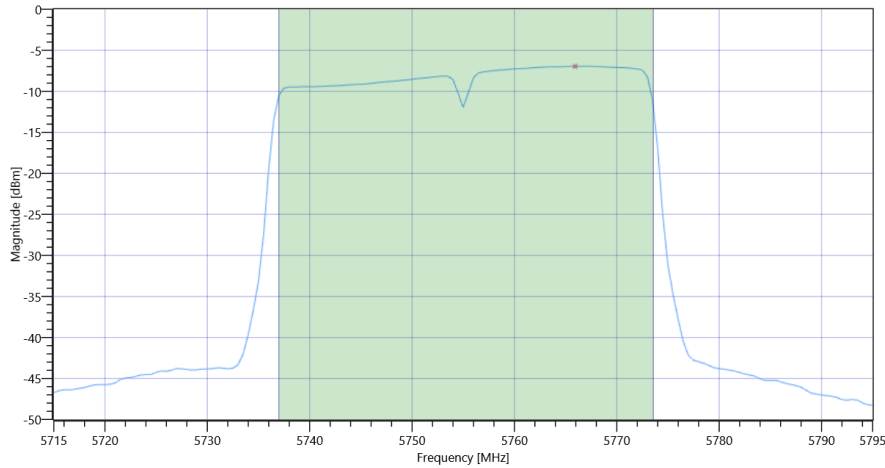
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.25 13.12 15
Start [MHz] Stop [MHz]	5715.000 5795.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.24	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	7.24	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.64	7.24	dBm	not applicable



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 Max OP and PSD

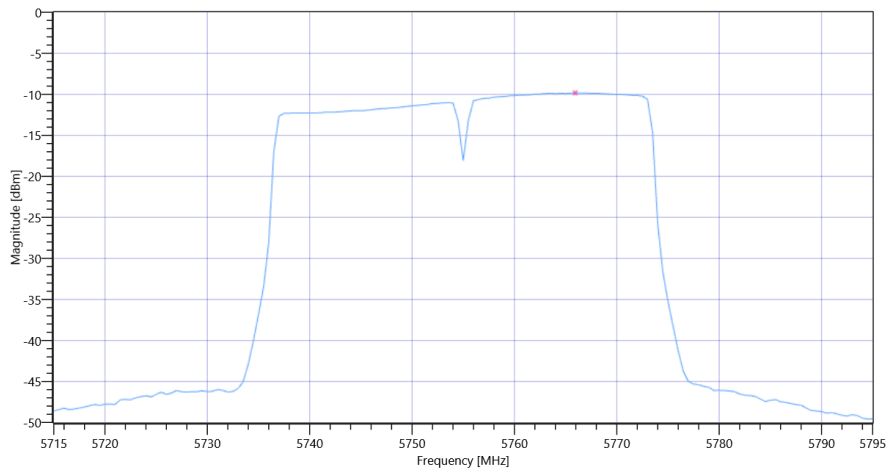
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.25 13.12 20
Start [MHz] Stop [MHz]	5715.000 5795.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.83	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-9.83	dBm/0.5MHz	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 PSD UNII-3

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

Test References	
TC Start	06.07.2022 12:22:15
Ambit Temp [°C] Humidity [rel%]	27.6 29
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5795
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5755 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	0.82	dBm	INFO
Ref. Frequency	---	---	5766.790	MHz	INFO

Evaluation max. Duty Cycle

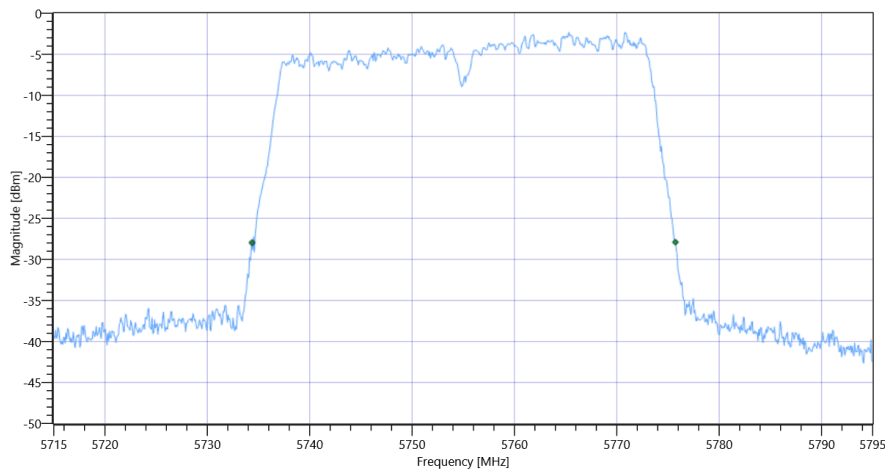
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.36	MHz	INFO
T1 26dB	---	---	5734.3600	MHz	INFO
T2 26dB	---	---	5775.7200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

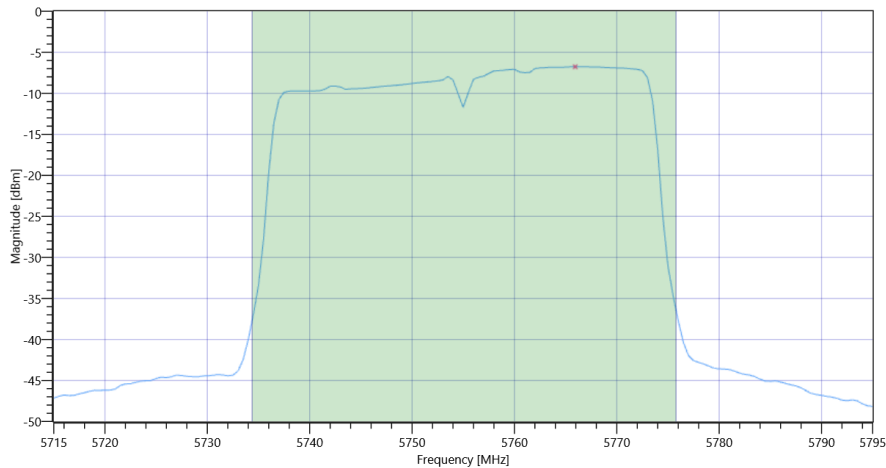
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.82 13.12 15
Start [MHz] Stop [MHz]	5715.000 5795.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.28	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	7.28	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.17	7.28	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 Max OP and PSD

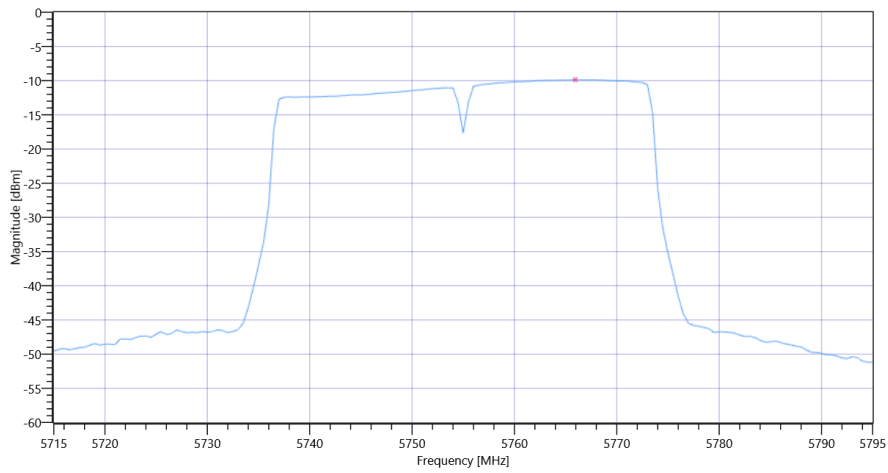
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.82 13.12 15
Start [MHz] Stop [MHz]	5715.000 5795.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-9.87	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-9.87	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3 PSD UNII-3

General verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

Test References	
TC Start	06.07.2022 12:05:18
Ambit Temp [°C] Humidity [rel%]	27.6 28
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5310
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5310 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-0.71	dBm	INFO
Ref. Frequency	---	---	5327.180	MHz	INFO

Evaluation max. Duty Cycle

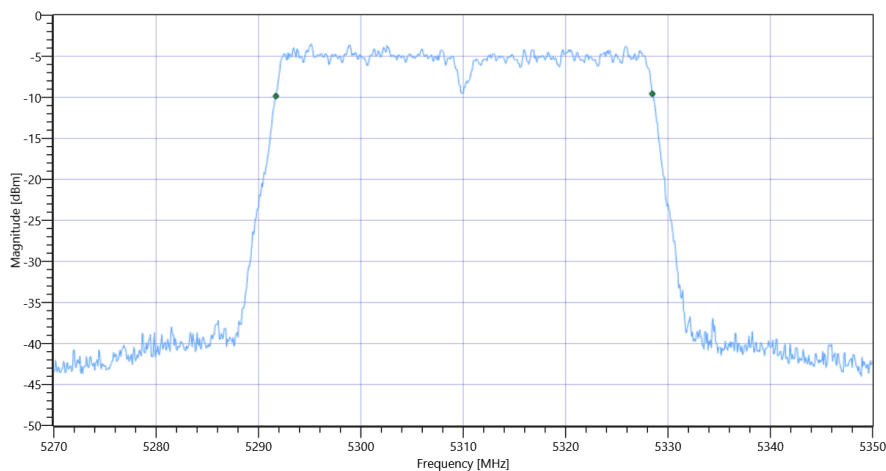
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.763	MHz	INFO
T1 99%	---	---	5291.6983	MHz	INFO
T2 99%	---	---	5328.4615	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A_BW

Maximum Output Power

READ SA SETTINGS:

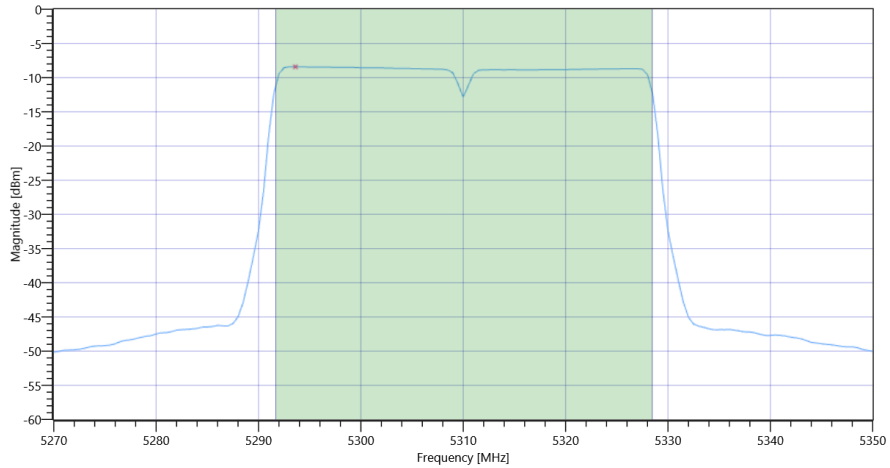
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.29 12.72 15
Start [MHz] Stop [MHz]	5270.000 5350.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	6.53	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	6.53	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.65	6.53	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.41	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-8.41	dBm/1MHz	PASS

General verdict **PASS**

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

Test References	
TC Start	06.07.2022 12:03:38
Ambit Temp [°C] Humidity [rel%]	27.6 28
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5310
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5310 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	-0.38	dBm	INFO
Ref. Frequency	---	---	5299.410	MHz	INFO

Evaluation max. Duty Cycle

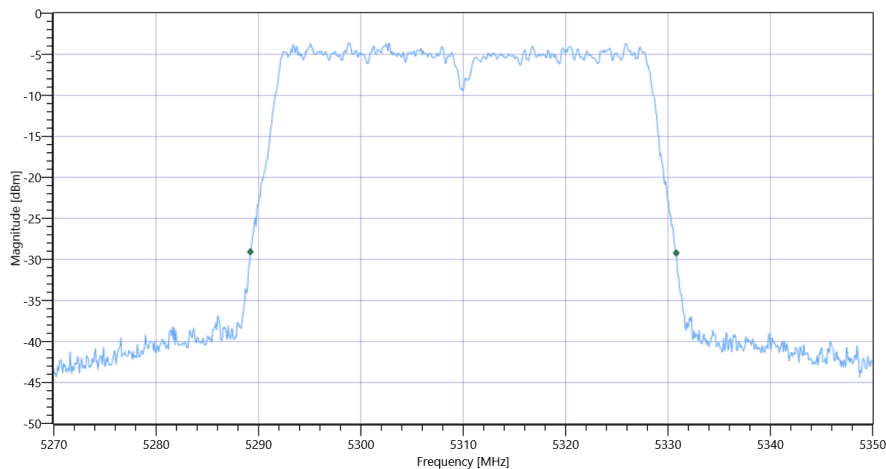
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.6	MHz	INFO
T1 26dB	---	---	5289.2000	MHz	INFO
T2 26dB	---	---	5330.8000	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A_BW

Maximum Output Power

READ SA SETTINGS:

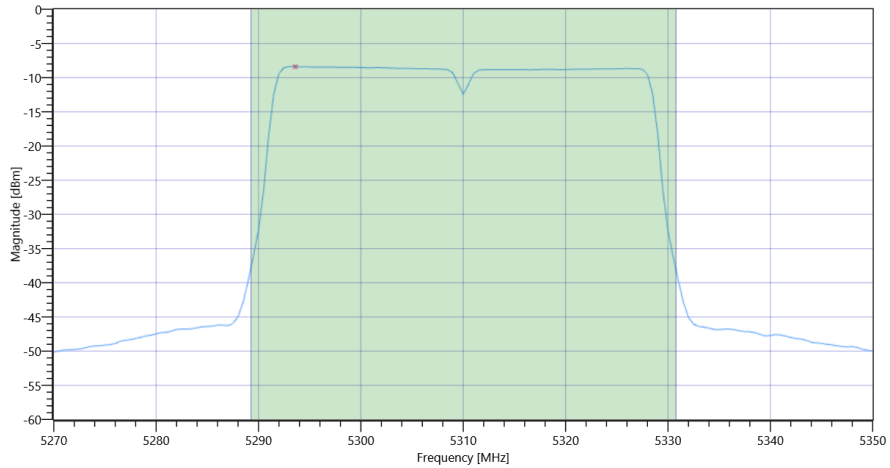
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.62 12.72 15
Start [MHz] Stop [MHz]	5270.000 5350.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	6.59	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	6.59	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.19	6.59	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-8.4	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-8.4	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

Test References	
TC Start	06.07.2022 11:57:32
Ambit Temp [°C] Humidity [rel%]	27.5 29
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5310
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5270 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	0.28	dBm	INFO
Ref. Frequency	---	---	5285.580	MHz	INFO

Evaluation max. Duty Cycle

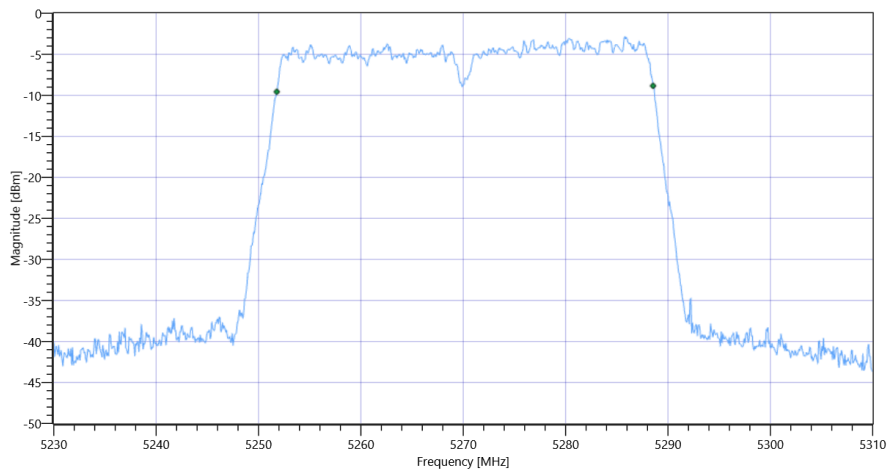
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.763	MHz	INFO
T1 99%	---	---	5251.7782	MHz	INFO
T2 99%	---	---	5288.5415	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A_BW

Maximum Output Power

READ SA SETTINGS:

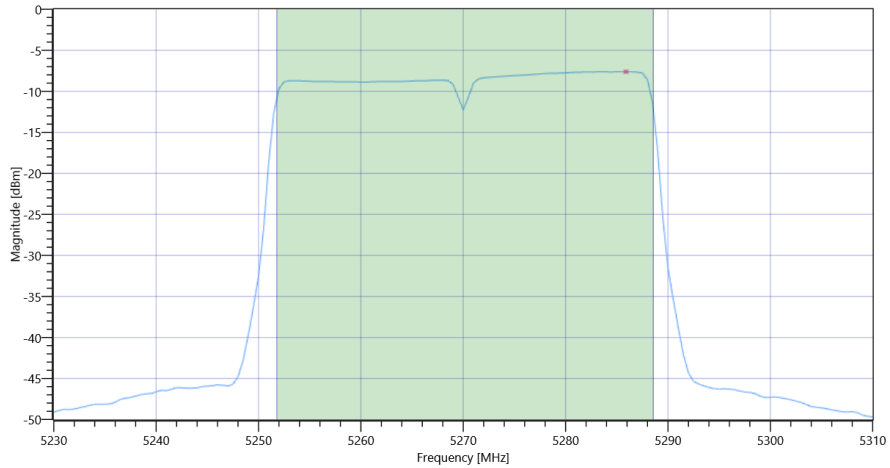
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.28 12.82 15
Start [MHz] Stop [MHz]	5230.000 5310.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	6.92	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	6.92	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.65	6.92	dBm	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.61	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-7.61	dBm/1MHz	PASS

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

Test References	
TC Start	06.07.2022 11:55:52
Ambit Temp [°C] Humidity [rel%]	27.6 29
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5310
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5270 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	0.42	dBm	INFO
Ref. Frequency	---	---	5279.590	MHz	INFO

Evaluation max. Duty Cycle

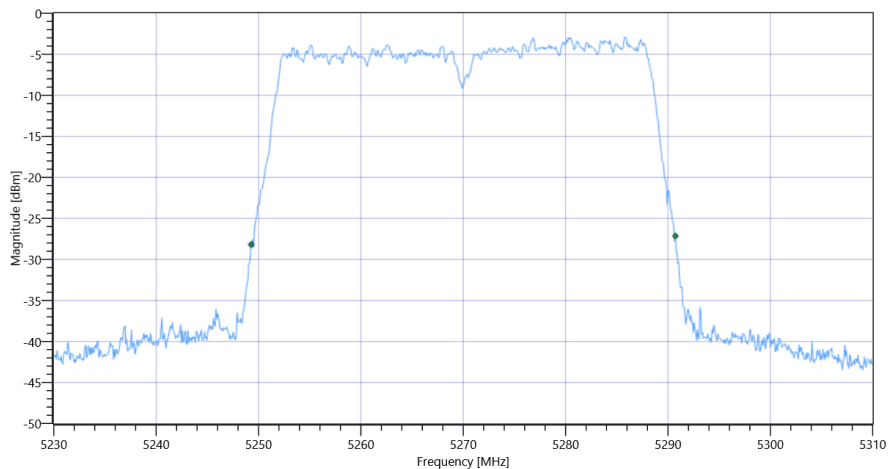
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.44	MHz	INFO
T1 26dB	---	---	5249.2800	MHz	INFO
T2 26dB	---	---	5290.7200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A_BW

Maximum Output Power

READ SA SETTINGS:

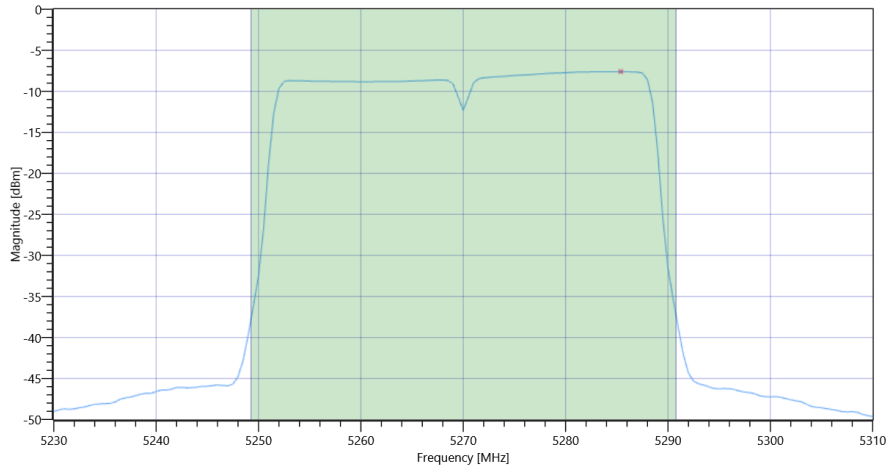
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.42 12.82 15
Start [MHz] Stop [MHz]	5230.000 5310.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	6.97	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	6.97	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.17	6.97	dBm	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.6	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-7.6	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

Test References	
TC Start	06.07.2022 11:52:13
Ambit Temp [°C] Humidity [rel%]	27.5 29
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5190
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5230
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5230 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	0.78	dBm	INFO
Ref. Frequency	---	---	5237.790	MHz	INFO

Evaluation max. Duty Cycle

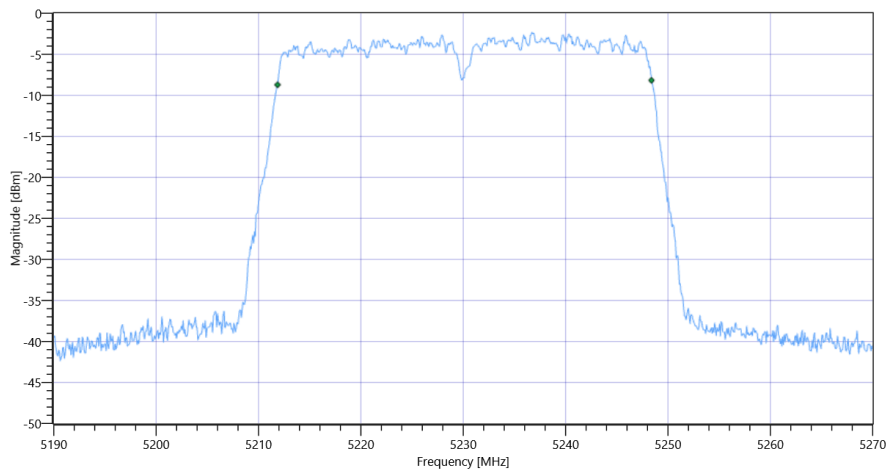
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.523	MHz	INFO
T1 99%	---	---	5211.8581	MHz	INFO
T2 99%	---	---	5248.3816	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1_BW

Maximum Output Power

READ SA SETTINGS:

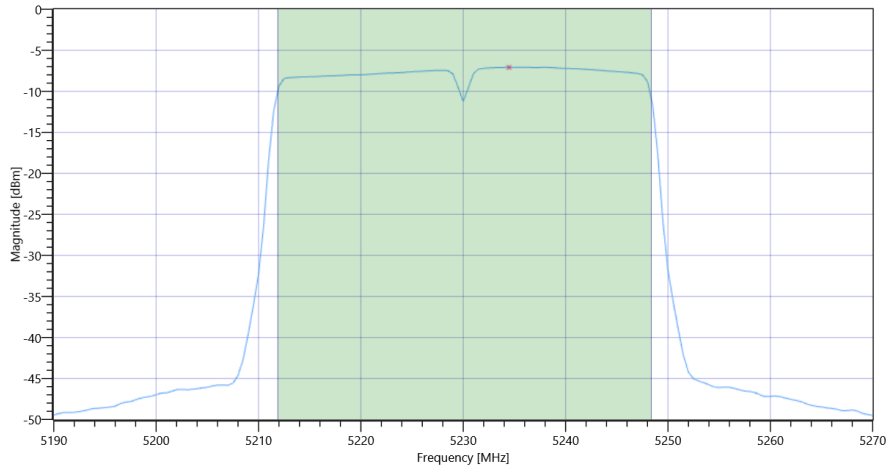
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.78 12.73 15
Start [MHz] Stop [MHz]	5190.000 5270.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.62	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	7.62	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.63	7.62	dBm	not applicable



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1 Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.08	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-7.08	dBm/1MHz	PASS

General verdict **PASS**

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

Test References	
TC Start	06.07.2022 11:50:33
Ambit Temp [°C] Humidity [rel%]	27.5 28
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5190
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5230
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5230 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	1.00	dBm	INFO
Ref. Frequency	---	---	5237.990	MHz	INFO

Evaluation max. Duty Cycle

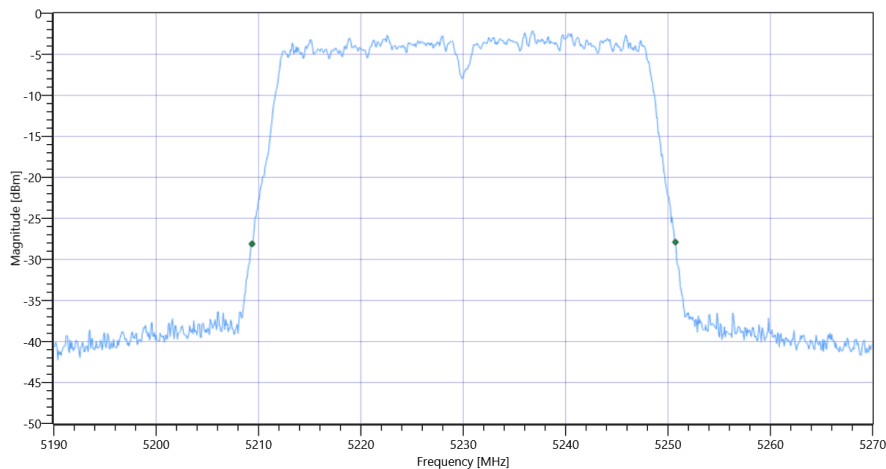
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.36	MHz	INFO
T1 26dB	---	---	5209.3600	MHz	INFO
T2 26dB	---	---	5250.7200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1_BW

Maximum Output Power

READ SA SETTINGS:

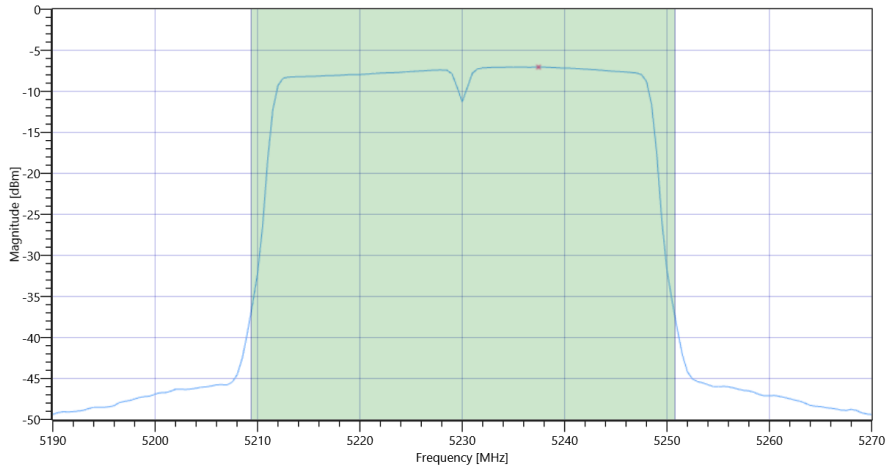
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.00 12.73 15
Start [MHz] Stop [MHz]	5190.000 5270.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.7	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	7.7	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.17	7.7	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1 Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.05	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-7.05	dBm/1MHz	PASS

General verdict **PASS**

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

Test References	
TC Start	06.07.2022 11:46:44
Ambit Temp [°C] Humidity [rel%]	27.5 28
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5190
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5230
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5190 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	0.68	dBm	INFO
Ref. Frequency	---	---	5195.190	MHz	INFO

Evaluation max. Duty Cycle

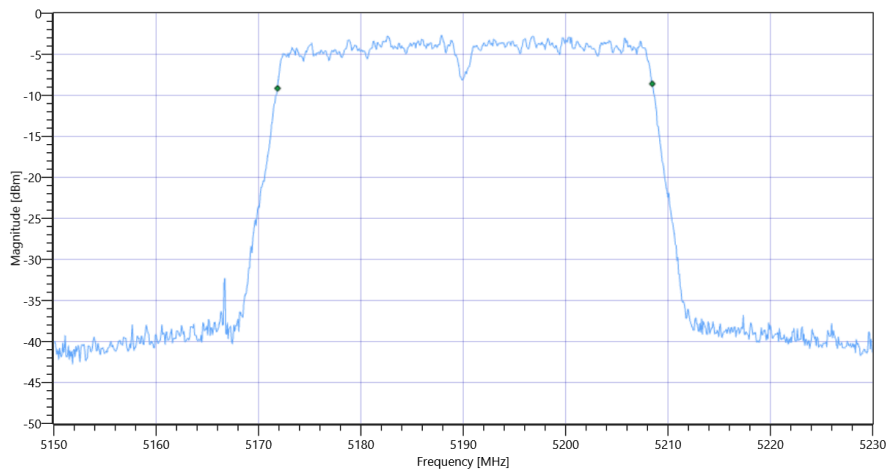
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36.603	MHz	INFO
T1 99%	---	---	5171.8581	MHz	INFO
T2 99%	---	---	5208.4615	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1_BW

Maximum Output Power

READ SA SETTINGS:

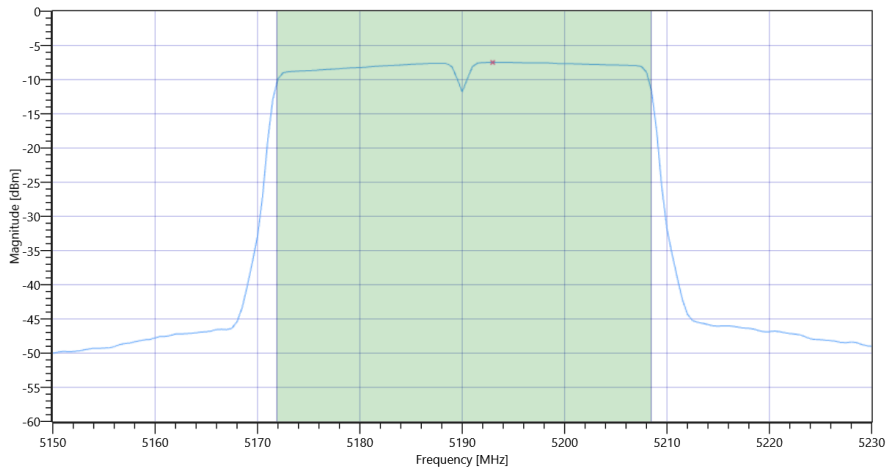
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.68 12.58 15
Start [MHz] Stop [MHz]	5150.000 5230.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.3	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	7.3	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	26.64	7.3	dBm	not applicable



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1 Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.48	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-7.48	dBm/1MHz	PASS

General verdict **PASS**

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

Test References	
TC Start	06.07.2022 11:45:04
Ambit Temp [°C] Humidity [rel%]	27.5 29
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5190
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5230
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5190 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	0.58	dBm	INFO
Ref. Frequency	---	---	5185.000	MHz	INFO

Evaluation max. Duty Cycle

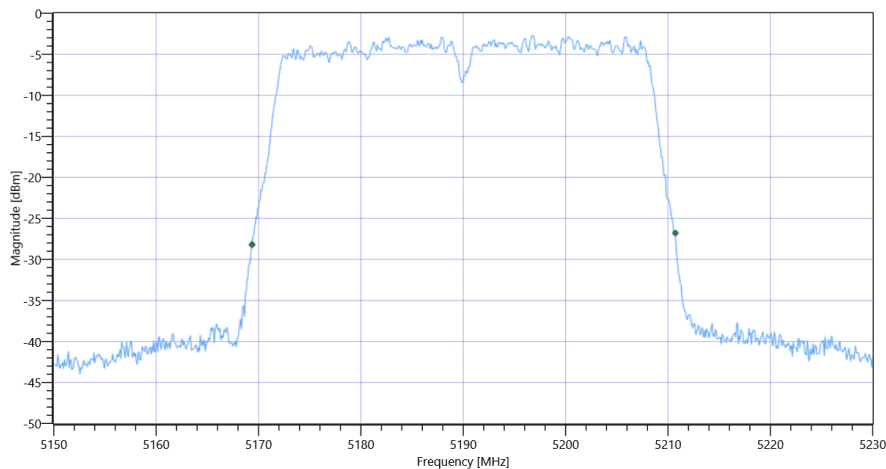
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	41.36	MHz	INFO
T1 26dB	---	---	5169.3600	MHz	INFO
T2 26dB	---	---	5210.7200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1_BW

Maximum Output Power

READ SA SETTINGS:

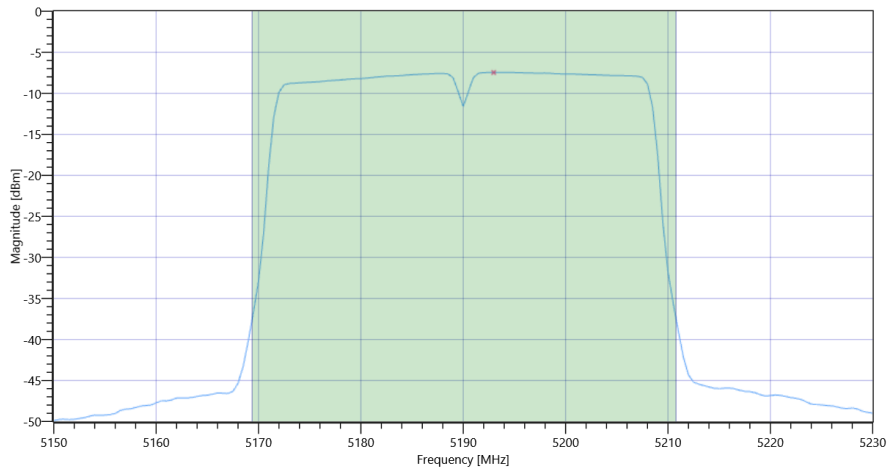
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.58 12.58 15
Start [MHz] Stop [MHz]	5150.000 5230.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.37	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	24	7.37	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	27.17	7.37	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1 Max OP and PSD

Power Spectral Density

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-7.46	dBm/1MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	11	-7.46	dBm/1MHz	PASS

General verdict	PASS
-----------------	-------------

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.07.2022 11:39:39
Ambit Temp [°C] Humidity [rel%]	27.3 29
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5825 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.31	dBm	INFO
Ref. Frequency	---	---	5817.410	MHz	INFO

Evaluation max. Duty Cycle

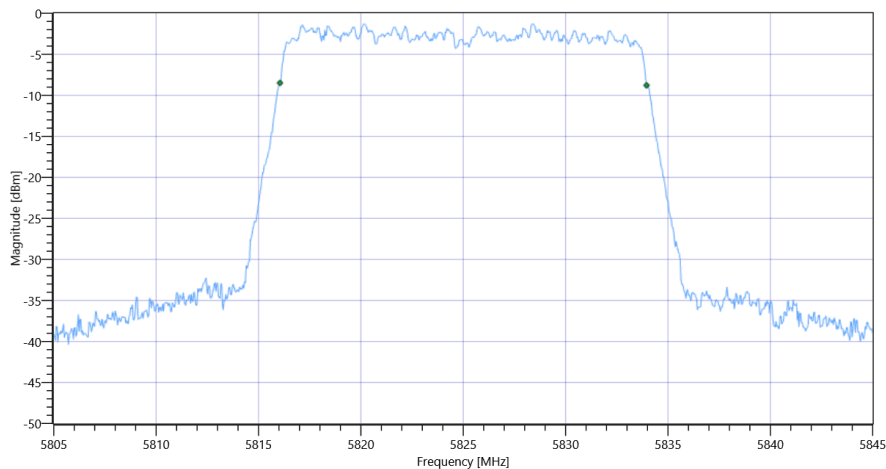
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.902	MHz	INFO
T1 99%	---	---	5816.0490	MHz	INFO
T2 99%	---	---	5833.9510	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

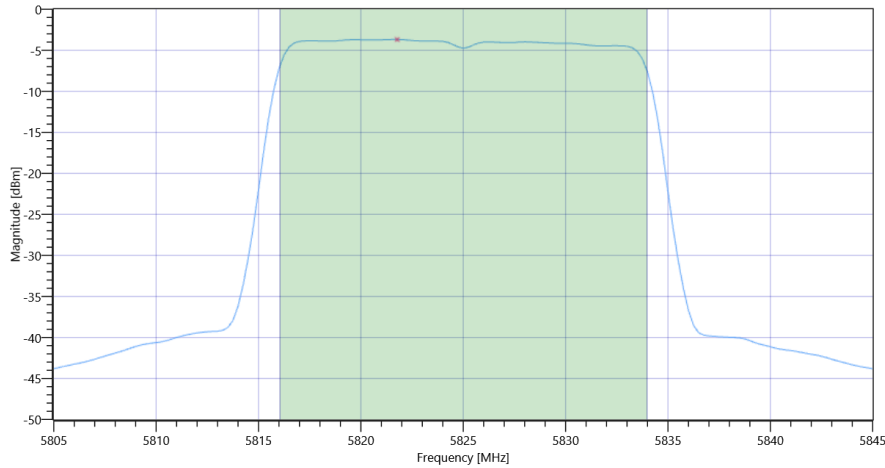
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.31 12.77 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	8.11	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	8.11	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.53	8.11	dBm	not applicable



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

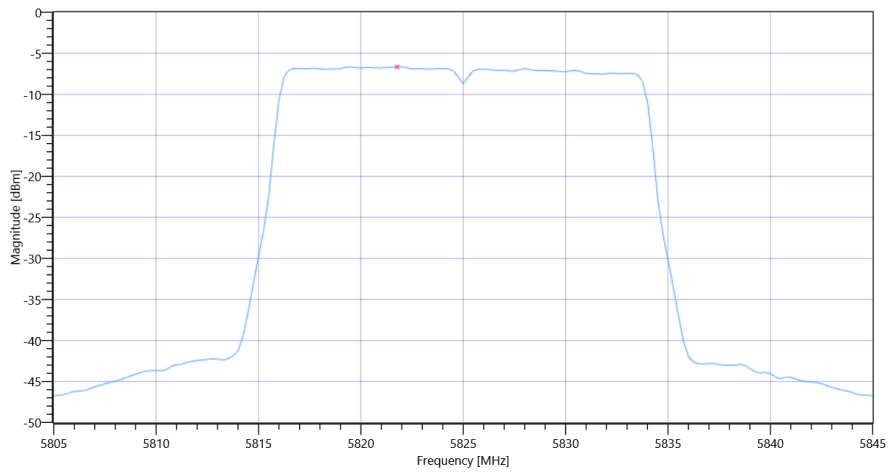
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.31 12.77 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.66	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-6.66	dBm/0.5MHz	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.07.2022 11:37:03
Ambit Temp [°C] Humidity [rel%]	27.3 29
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5825 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.21	dBm	INFO
Ref. Frequency	---	---	5819.810	MHz	INFO

Evaluation max. Duty Cycle

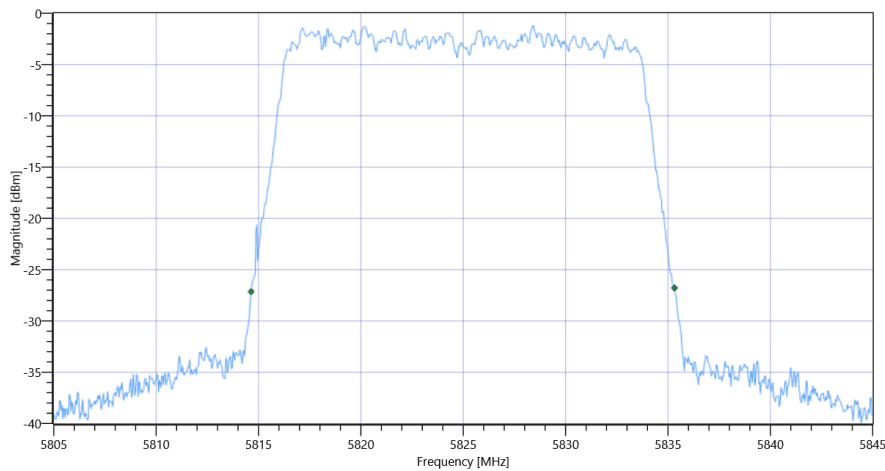
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.68	MHz	INFO
T1 26dB	---	---	5814.6400	MHz	INFO
T2 26dB	---	---	5835.3200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

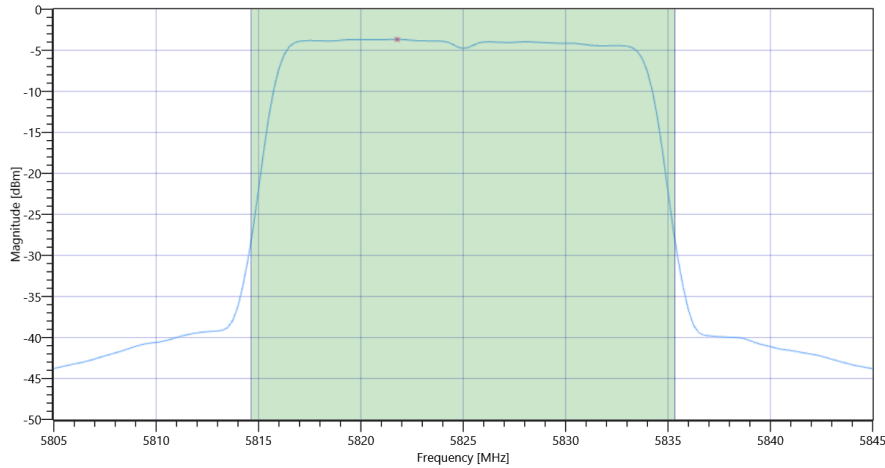
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.21 12.77 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	8.21	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	8.21	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.16	8.21	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

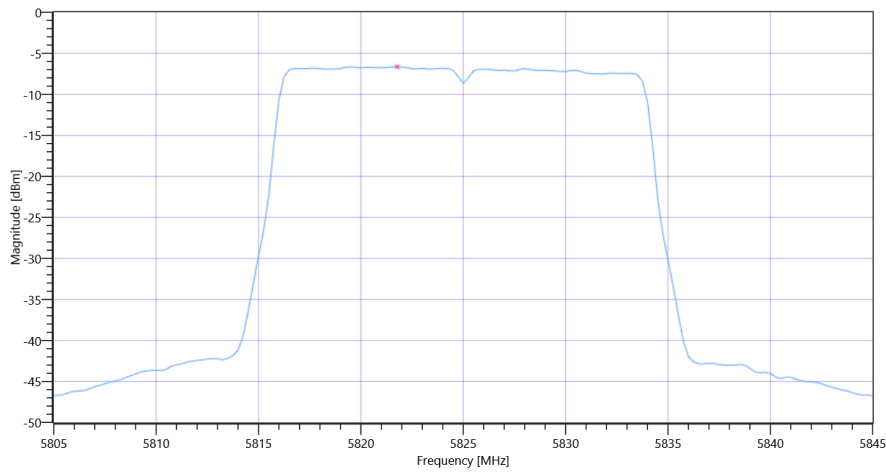
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.21 12.77 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.65	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-6.65	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.07.2022 10:57:18
Ambit Temp [°C] Humidity [rel%]	27.4 29
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5785 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.06	dBm	INFO
Ref. Frequency	---	---	5780.800	MHz	INFO

Evaluation max. Duty Cycle

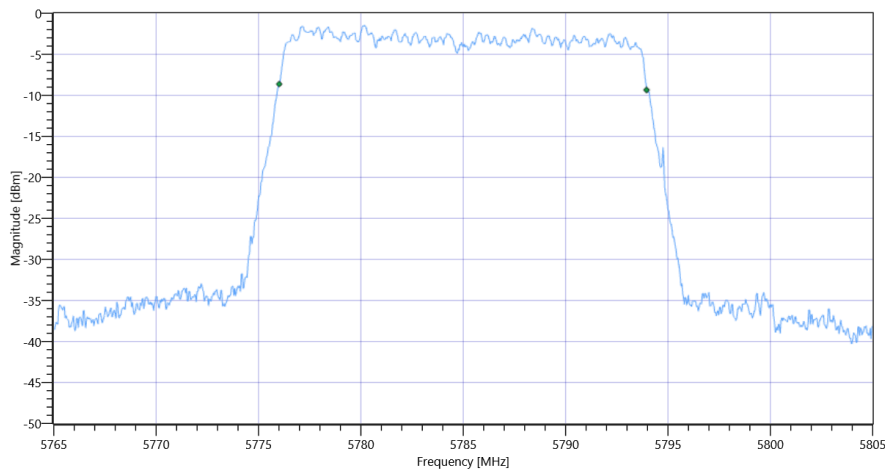
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	17.942	MHz	INFO
T1 99%	---	---	5776.0090	MHz	INFO
T2 99%	---	---	5793.9510	MHz	INFO



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

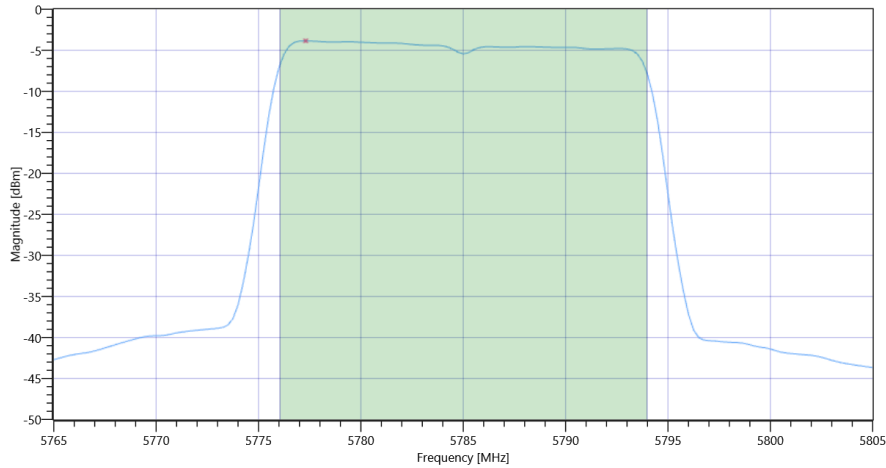
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.06 12.97 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.73	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	7.73	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	23.54	7.73	dBm	not applicable



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

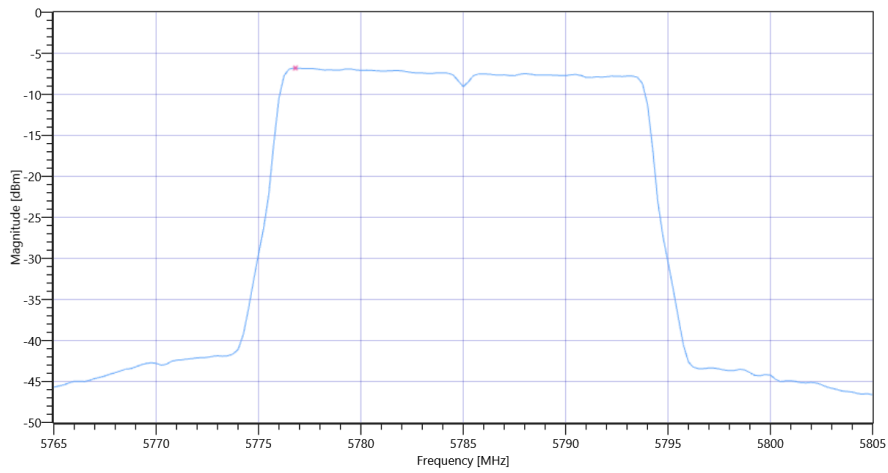
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.06 12.97 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.8	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-6.8	dBm/0.5MHz	PASS



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.07.2022 10:54:41
Ambit Temp [°C] Humidity [rel%]	27.4 30
System Version	3.2.0.2
Test Specification	FCC 15.247 -
Test Method	KDB789033 D02, F., E.2.e.
TC Version	0.0.1
My Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	

Test at TX 5785 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	4.06	dBm	INFO
Ref. Frequency	---	---	5777.410	MHz	INFO

Evaluation max. Duty Cycle

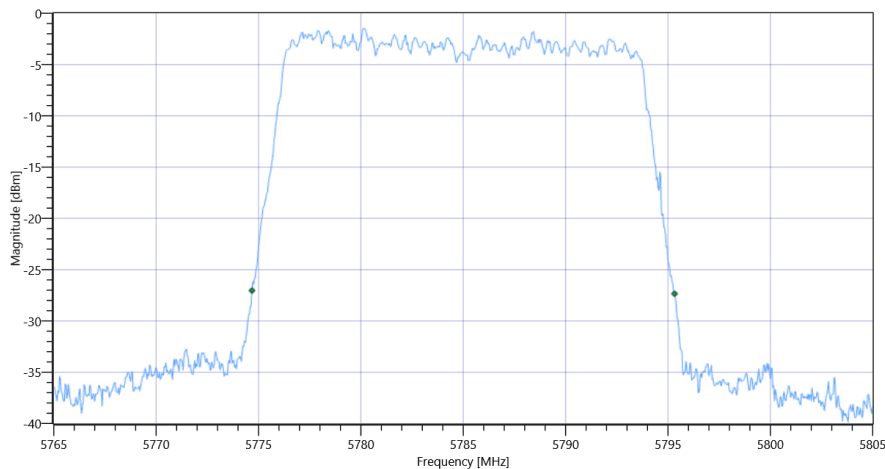
Duty Cycle evaluation

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

Evaluation Bandwidth

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	20.64	MHz	INFO
T1 26dB	---	---	5774.6800	MHz	INFO
T2 26dB	---	---	5795.3200	MHz	INFO



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3_BW

Maximum Output Power

READ SA SETTINGS:

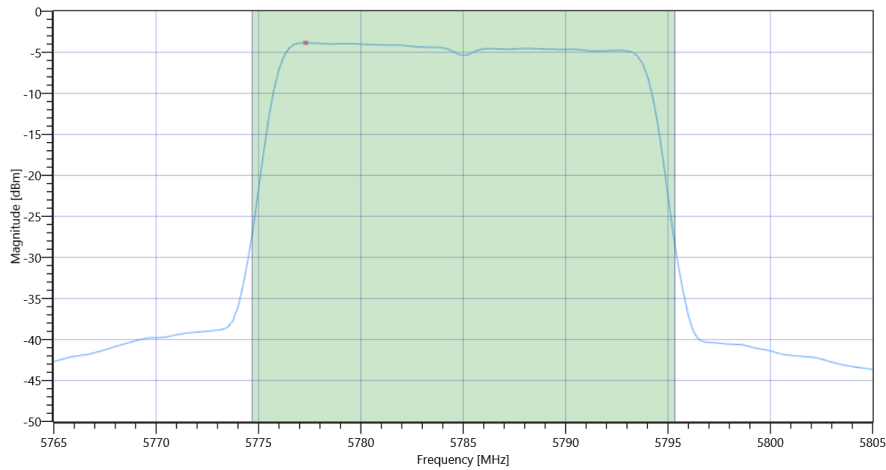
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.06 12.97 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power	---	---	7.82	dBm	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Limit absolute					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Output Power DC corrected	---	30	7.82	dBm	PASS
Limit by: 11 dBm + 10 log Bandwidth					
Max Output Power DC corrected	---	24.15	7.82	dBm	not applicable



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

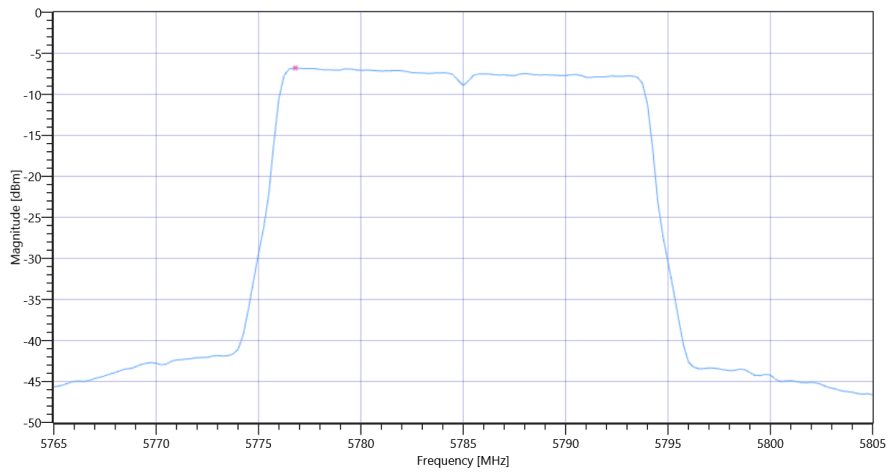
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.06 12.97 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: Time [ms] Count Points per Section Type	53700 1 161 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power Spectral Density	---	---	-6.79	dBm/0.5MHz	INFO
Duty Cycle Correction	---	---	0	dB	INFO
Power Spectral Density DC corrected	---	30	-6.79	dBm/0.5MHz	PASS



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

Test References	
TC Start	06.07.2022 10:49:29
Ambit Temp [°C] Humidity [rel%]	27.4 30
System Version	3.2.0.2
Test Specification	ISED RSS247 -
Test Method	
TC Version	0.0.1
My Description	ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Add. Information	

EUT Common Settings WLAN5Gx	
Number of Antenna Ports	1
User Interaction	No
Device Class UNII_1	Client

Test Parameter	
Technology to test	WLAN5Gx n-HT20 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0.5
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

Test Equipment	
Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60	
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI	