

## Test at TX 2422 MHz

RESULT: Reference Power cond.

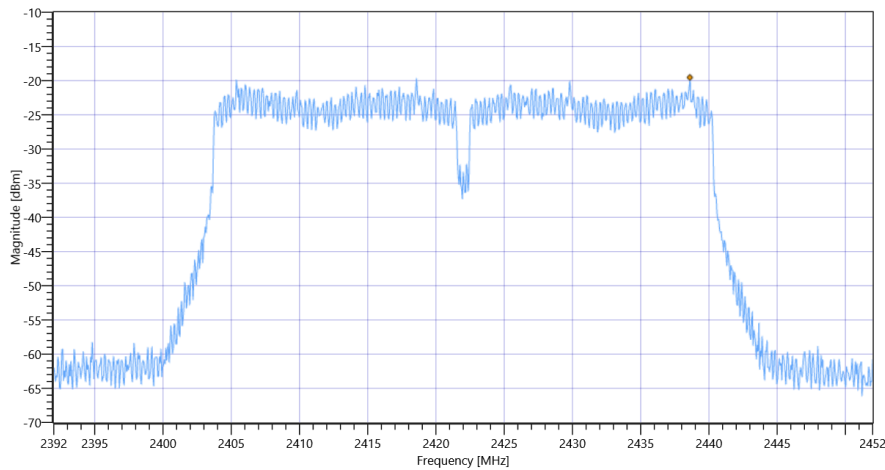
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.36	dBm	INFO
Ref. Frequency	---	---	2407.510	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	8.36   15.83   10
Start [MHz]   Stop [MHz]	2392.000   2452.000
RBW [MHz]   VBW [MHz]	0.003000   0.010000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   20   1001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-19.53	dBm/3KHz	PASS



FCC 15.247 # Peak power spectral density DTS ~ WLAN2G4 n-HT40 mode

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 11:48:51
Ambit Temp [°C]   Humidity [rel%]	26.9   39
System Version	3.3.1.5
Test Specification	FCC 15.247, ISED RSS247 -
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT40 mode
Add. Information	

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

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

## Test at TX 2422 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.64	dBm	INFO
Ref. Frequency	---	---	2406.420	MHz	INFO

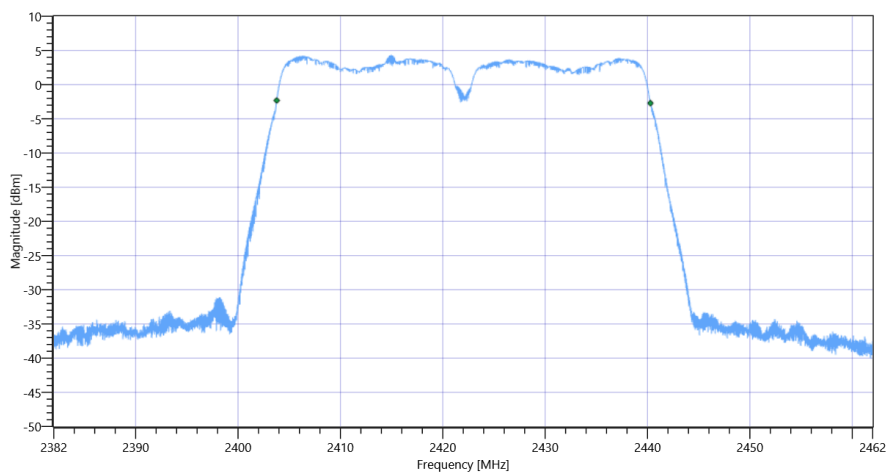
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	8.64   15.83   10
Start [MHz]   Stop [MHz]	2382.000   2462.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

### RESULT

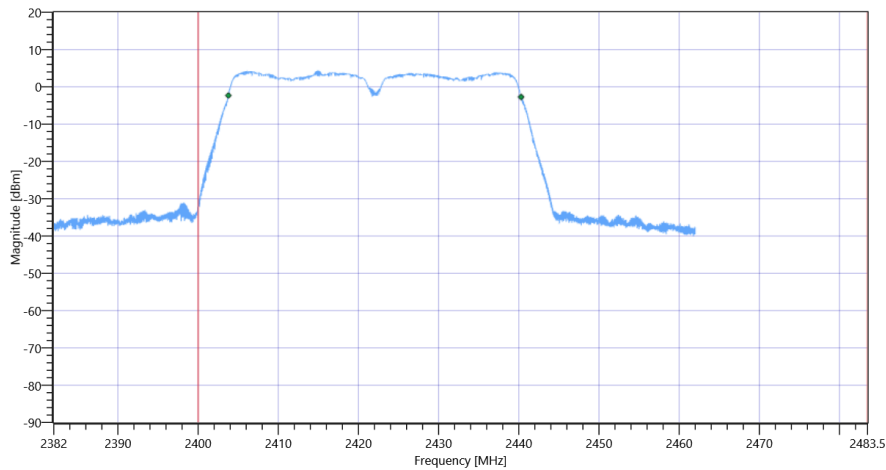
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36508.000	kHz	INFO
T1 99%	2400.000000	---	2403.7778	MHz	PASS
T2 99%	---	2483.500000	2440.2862	MHz	PASS

### Plot: Bandwidth only



FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode 99PCT

### Plot: Bandwidth within Band

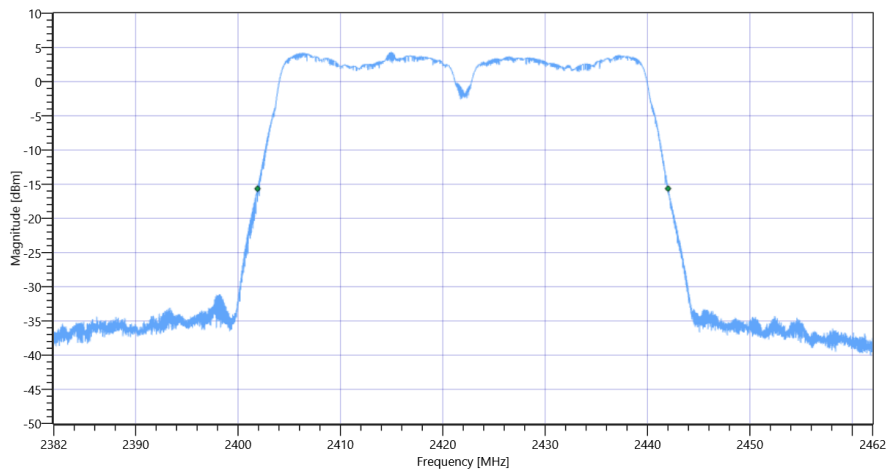


FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode

## RESULT

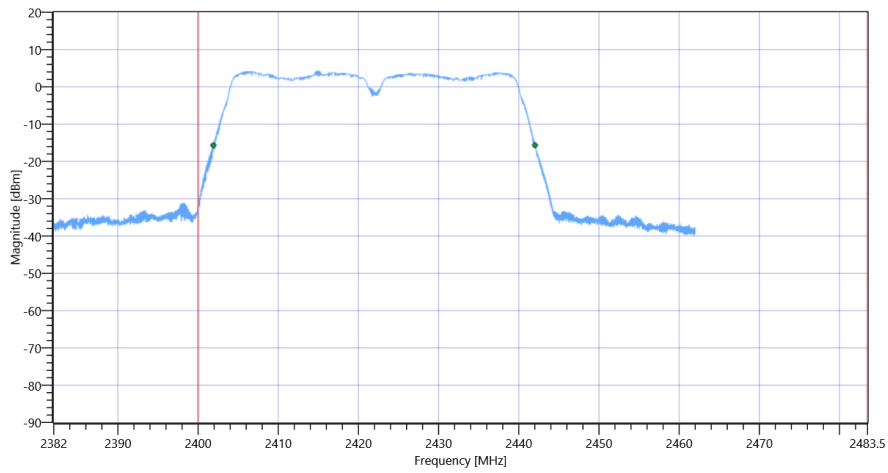
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	40104	kHz	INFO
T1 20dB	2400.000000	---	2401.9040	MHz	PASS
T2 20dB	---	2483.500000	2442.0080	MHz	PASS

## Plot: Bandwidth only



FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode 20dB

## Plot: Bandwidth within Band



*FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode*

# FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 11:49:51
Ambit Temp [°C]   Humidity [rel%]	26.9   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS DTS - WLAN2G4 nHT40_mode

Add. Information

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 2422 MHz

RESULT: Reference Power cond.

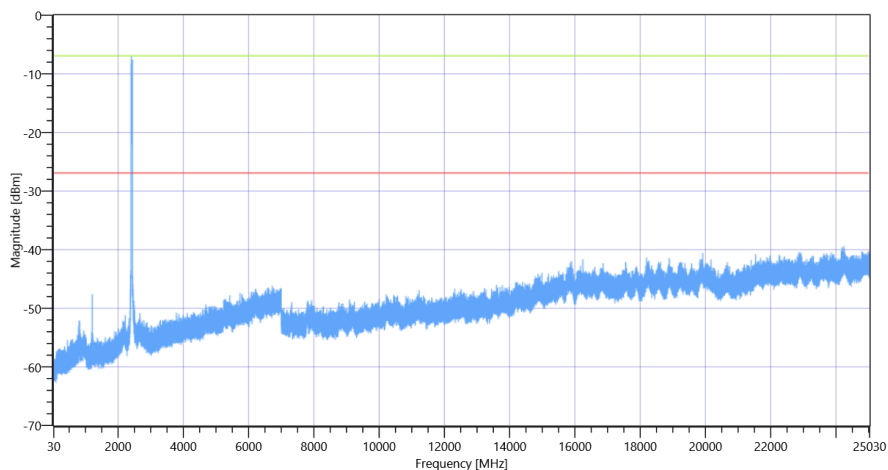
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	4.17	dBm	INFO
Ref. Frequency	--	--	2414.910	MHz	INFO

### READ SA SETTINGS:

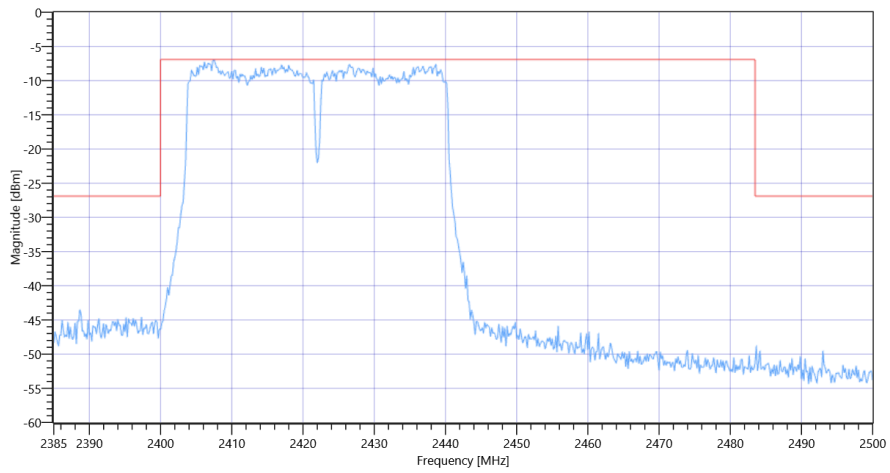
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.17   0   20
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	200   25   3001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2407.50 MHz	--	--	-6.91	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 24240 MHz	0	--	12.49	dB	INFO



FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode 2422



FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode 2422



## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 n-HT40 mode

### Test References

TC Start	31.10.2022 11:58:44
Ambit Temp [°C]   Humidity [rel%]	26.9   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 n-HT40 mode

Add. Information

### EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

### Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - PowerMeter

### Test Equipment

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Power sensor,Keysight Technologies,U2021XA,MY59190010,A.04.06

## Test at TX 2422 MHz

### RESULT

<i>Test Description</i>	<i>Lower Limit</i>	<i>Upper Limit</i>	<i>Measured</i>	<i>Unit</i>	<i>Verdict</i>
Found Peak cond.	--	--	19.92	dBm	PASS

## # Message with SA scan ~

### Test References

TC Start	31.10.2022 11:58:57
Ambit Temp [°C]   Humidity [rel%]	26.9   39
System Version	3.3.1.5
Test Specification	-
Test Method	
TC Version	0.0.1
My Description	Message with SA Scan n-HT40 mode
Add. Information	

### Test Parameter

Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Message start	31.10.2022 11:58:58
Message	set WLAN2G4 to n-HT40 mode, Frequency [MHz] 2437 ,

### Test Equipment

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

## FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT40 mode

### Test References

TC Start	31.10.2022 12:02:13
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	
TC Version	0.0.1
My Description	FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 nHT40_mode
Add. Information	

### EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

### Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	True   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 2437 MHz

RESULT: Reference Power cond.

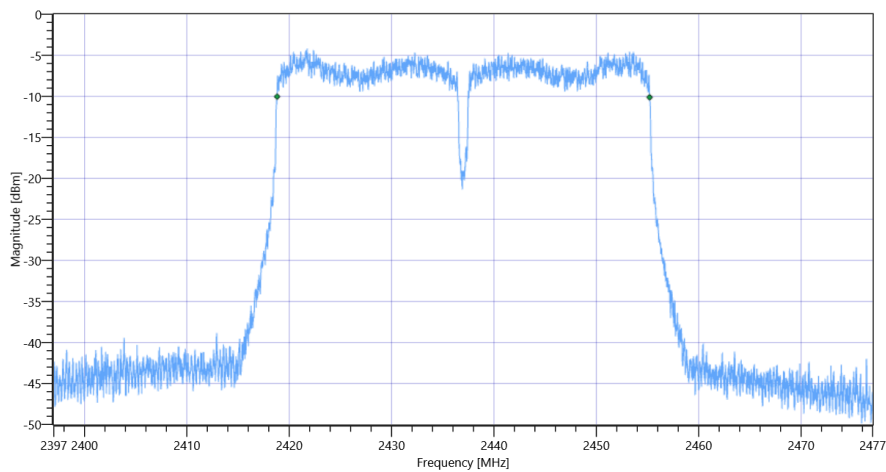
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	--	--	6.27	dBm	INFO
Ref. Frequency	--	--	2420.620	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	11.27   15.7   15
Start [MHz]   Stop [MHz]	2397.000   2477.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	--	36384	kHz	PASS



FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT40 mode

# FCC 15.247 # Peak power spectral density DTS ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 12:02:50
Ambit Temp [°C]   Humidity [rel%]	26.9   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
TC Version	0.0.1
My Description	FCC 15.247 Peak Power Spectral Density DTS - WLAN2G4 nHT40_mode

Add. Information

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	True   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

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

## Test at TX 2437 MHz

RESULT: Reference Power cond.

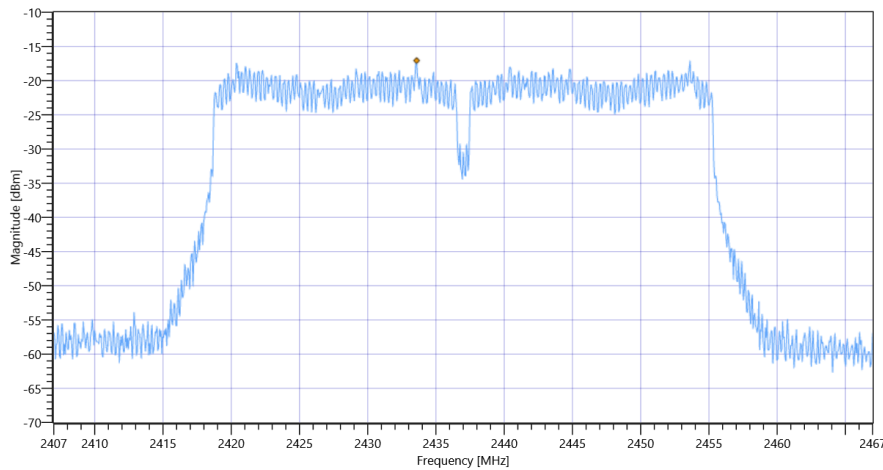
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.69	dBm	INFO
Ref. Frequency	---	---	2429.910	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	11.69   15.7   15
Start [MHz]   Stop [MHz]	2407.000   2467.000
RBW [MHz]   VBW [MHz]	0.003000   0.010000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   20   1001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-17.06	dBm/3KHz	PASS



FCC 15.247 # Peak power spectral density DTS ~ WLAN2G4 n-HT40 mode

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 12:03:38
Ambit Temp [°C]   Humidity [rel%]	26.9   39
System Version	3.3.1.5
Test Specification	FCC 15.247, ISED RSS247 -
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT40 mode
Add. Information	

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	True   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

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



## Test at TX 2437 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.86	dBm	INFO
Ref. Frequency	---	---	2429.910	MHz	INFO

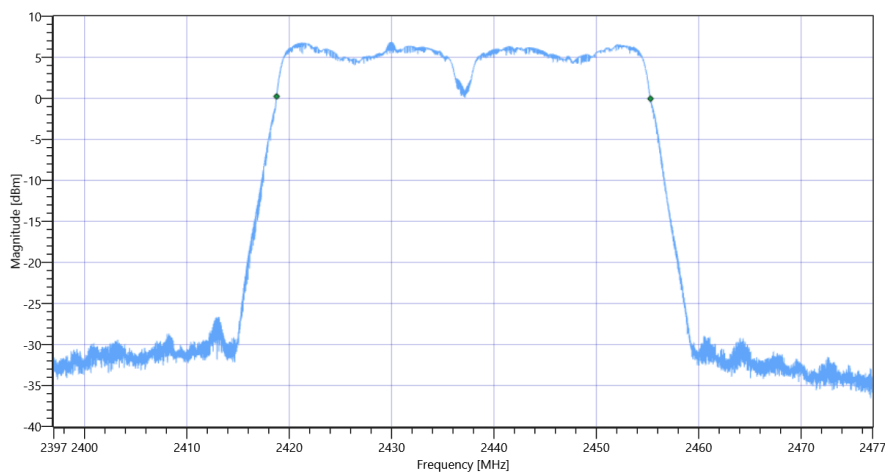
## READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	11.86   15.7   15
Start [MHz]   Stop [MHz]	2397.000   2477.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

## RESULT

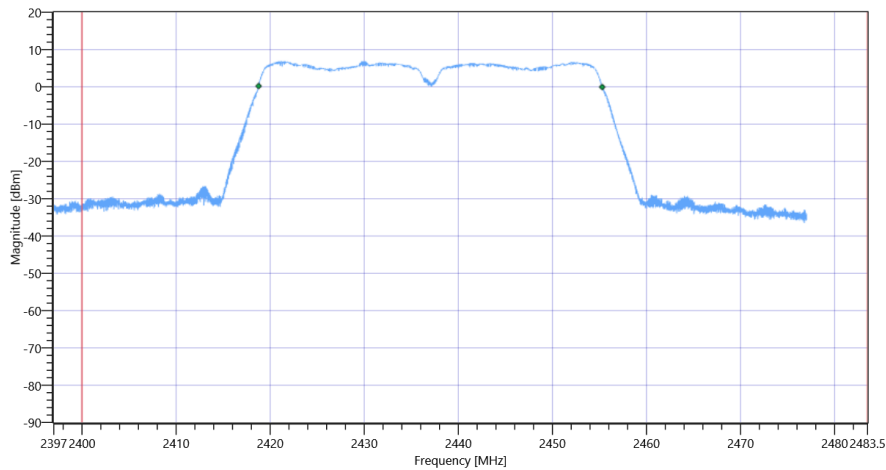
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36524.000	kHz	INFO
T1 99%	2400.000000	---	2418.7698	MHz	PASS
T2 99%	---	2483.500000	2455.2942	MHz	PASS

## Plot: Bandwidth only



FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode 99PCT

## Plot: Bandwidth within Band

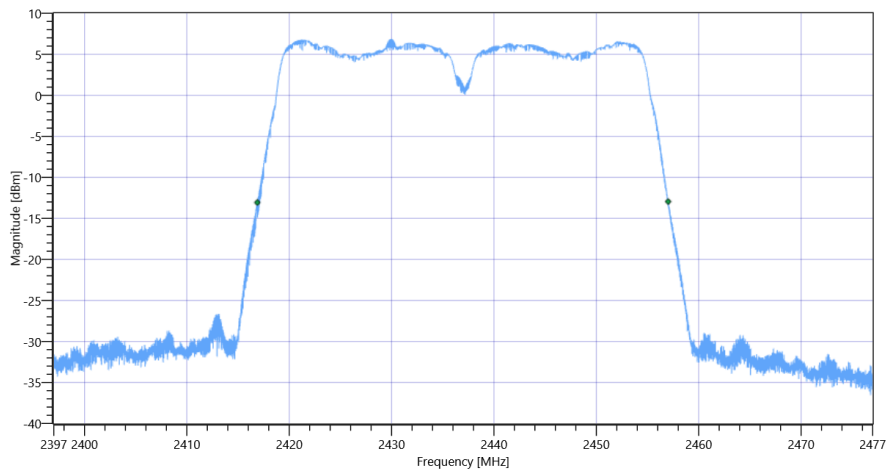


FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode

## RESULT

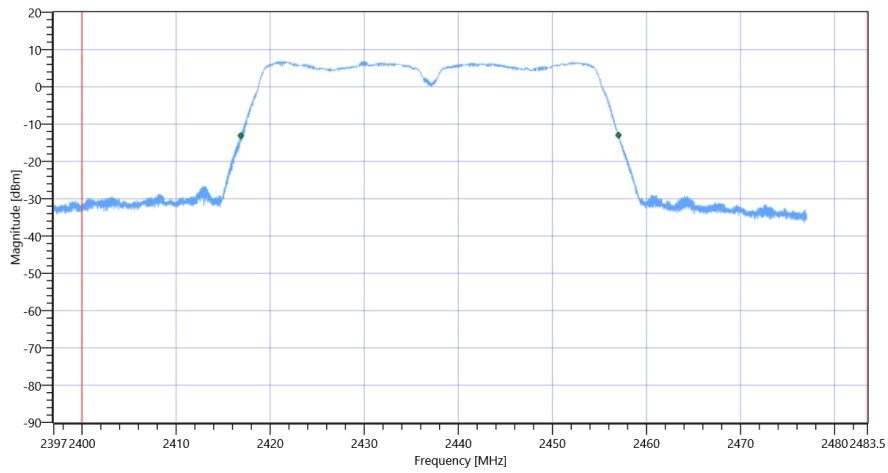
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	40136	kHz	INFO
T1 20dB	2400.000000	---	2416.8800	MHz	PASS
T2 20dB	---	2483.500000	2457.0160	MHz	PASS

## Plot: Bandwidth only



FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode 20dB

## Plot: Bandwidth within Band



*FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode*

# FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 12:04:39
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS DTS - WLAN2G4 nHT40_mode

Add. Information

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	True   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

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

## Test at TX 2437 MHz

RESULT: Reference Power cond.

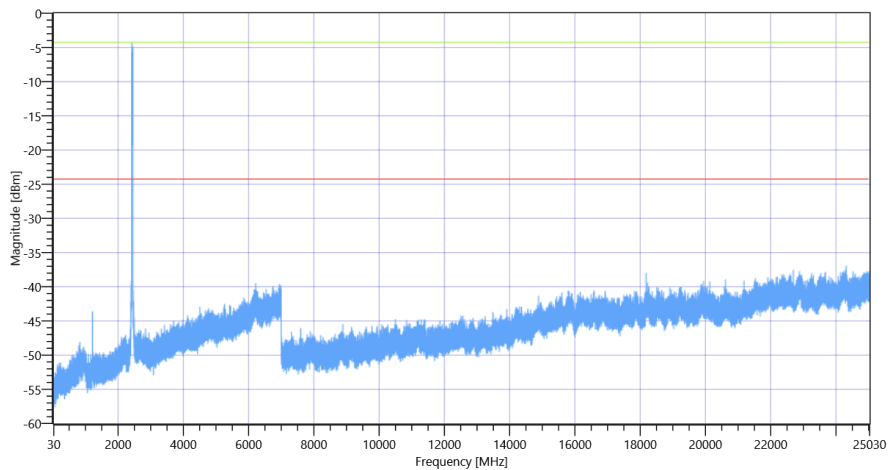
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	6.18	dBm	INFO
Ref. Frequency	---	---	2421.520	MHz	INFO

### READ SA SETTINGS:

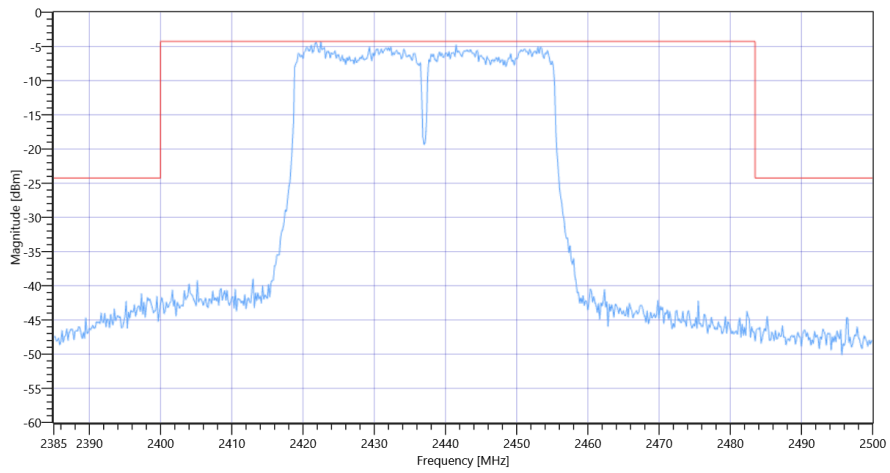
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	6.19   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	200   25   3001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2422.50 MHz	---	---	-4.28	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24313.333 MHz	0	---	12.63	dB	INFO



FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode 2437



FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode 2437

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 n-HT40 mode

### Test References

TC Start	31.10.2022 12:13:32
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 n-HT40 mode

Add. Information

### EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

### Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	True   Freq [MHz] 2437
Frequency high to test	False   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - PowerMeter

### Test Equipment

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Power sensor,Keysight Technologies,U2021XA,MY59190010,A.04.06

## Test at TX 2437 MHz

### RESULT

<i>Test Description</i>	<i>Lower Limit</i>	<i>Upper Limit</i>	<i>Measured</i>	<i>Unit</i>	<i>Verdict</i>
Found Peak cond.	--	--	22.54	dBm	PASS



## FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT40 mode

### Test References

TC Start	31.10.2022 12:17:24
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	
TC Version	0.0.1
My Description	FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 nHT40_mode
Add. Information	

### EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

### Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	True   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

### Test Equipment

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

## Test at TX 2452 MHz

RESULT: Reference Power cond.

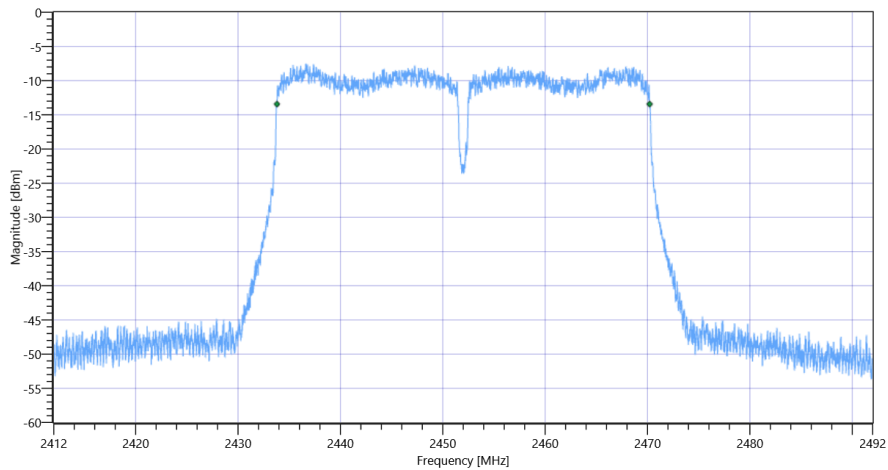
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.05	dBm	INFO
Ref. Frequency	---	---	2466.090	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	8.05   15.56   10
Start [MHz]   Stop [MHz]	2412.000   2492.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	36408	kHz	PASS



FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT40 mode

# FCC 15.247 # Peak power spectral density DTS ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 12:18:01
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
TC Version	0.0.1
My Description	FCC 15.247 Peak Power Spectral Density DTS - WLAN2G4 nHT40_mode

Add. Information

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	True   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 2452 MHz

RESULT: Reference Power cond.

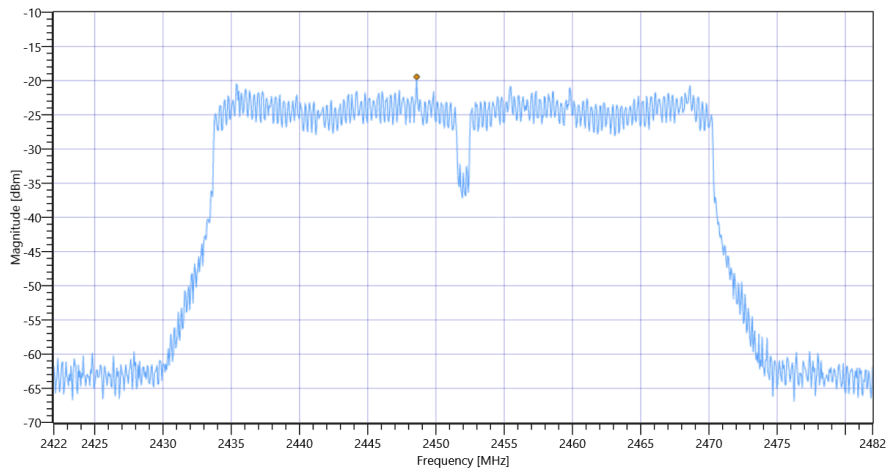
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.28	dBm	INFO
Ref. Frequency	---	---	2436.220	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	8.28   15.56   10
Start [MHz]   Stop [MHz]	2422.000   2482.000
RBW [MHz]   VBW [MHz]	0.003000   0.010000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   20   1001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-19.44	dBm/3KHz	PASS



FCC 15.247 # Peak power spectral density DTS ~ WLAN2G4 n-HT40 mode

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 12:18:50
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247, ISED RSS247 -
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT40 mode
Add. Information	

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	True   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

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

## Test at TX 2452 MHz

RESULT: Reference Power cond.

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.31	dBm	INFO
Ref. Frequency	---	---	2437.010	MHz	INFO

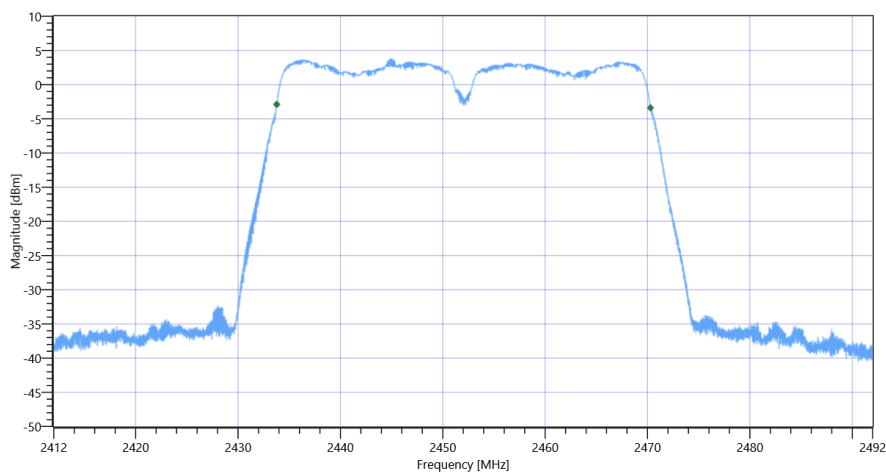
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	8.31   15.56   10
Start [MHz]   Stop [MHz]	2412.000   2492.000
RBW [MHz]   VBW [MHz]	1.000000   3.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

### RESULT

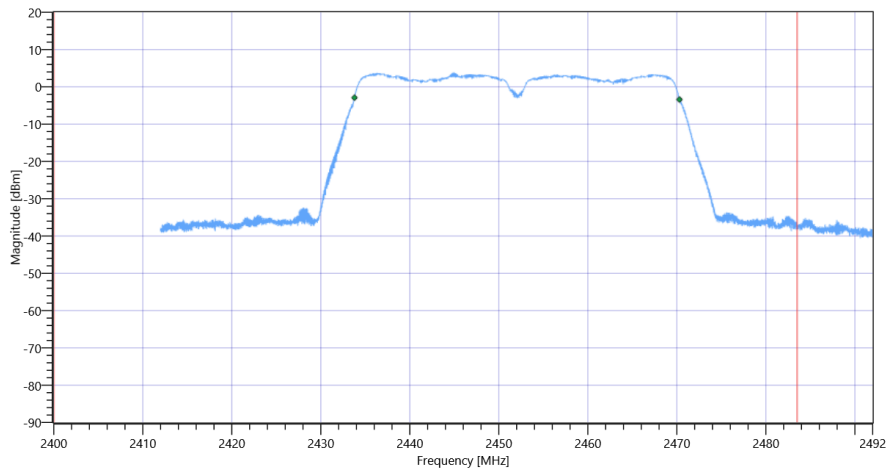
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	36508.000	kHz	INFO
T1 99%	2400.000000	---	2433.7778	MHz	PASS
T2 99%	---	2483.500000	2470.2862	MHz	PASS

### Plot: Bandwidth only



FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode 99PCT

### Plot: Bandwidth within Band

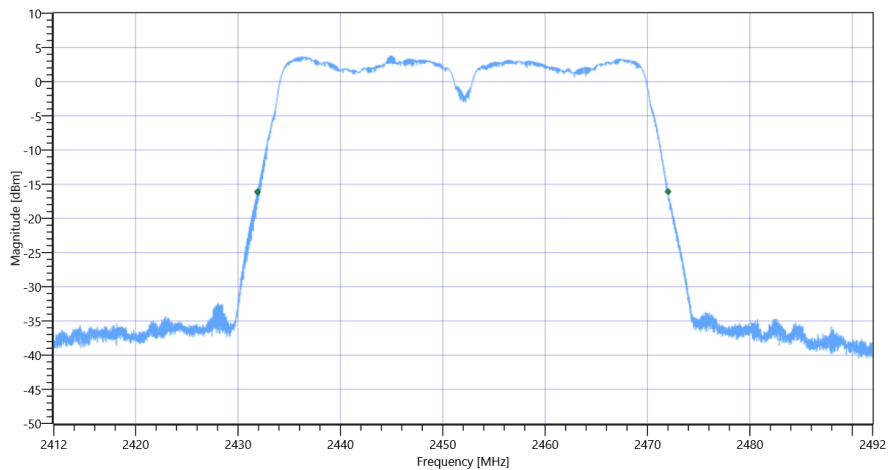


FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode

## RESULT

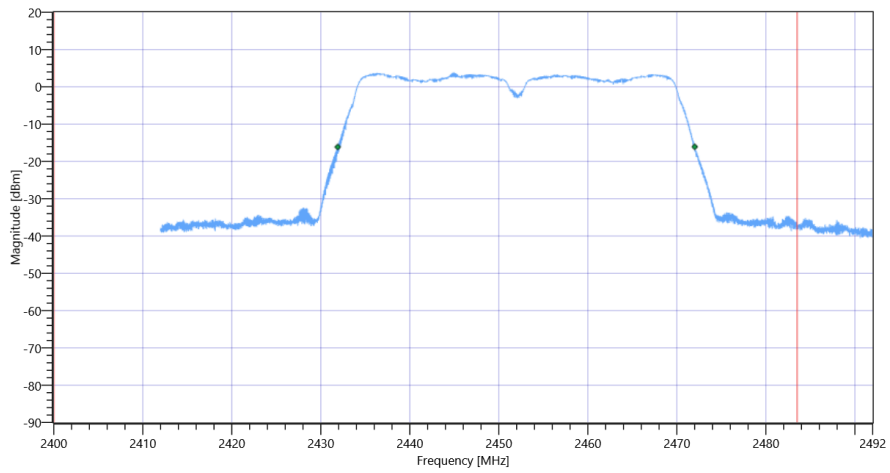
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	40104	kHz	INFO
T1 20dB	2400.000000	---	2431.8960	MHz	PASS
T2 20dB	---	2483.500000	2472.0000	MHz	PASS

## Plot: Bandwidth only



FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode 20dB

## Plot: Bandwidth within Band



*FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT40 mode*



# FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode

## Test References

TC Start	31.10.2022 12:19:51
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
TC Version	0.0.1
My Description	FCC 15.247 TX Emissions Conducted DTS DTS - WLAN2G4 nHT40_mode

Add. Information

## EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

## Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	True   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer

## Test Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

## Test at TX 2452 MHz

RESULT: Reference Power cond.

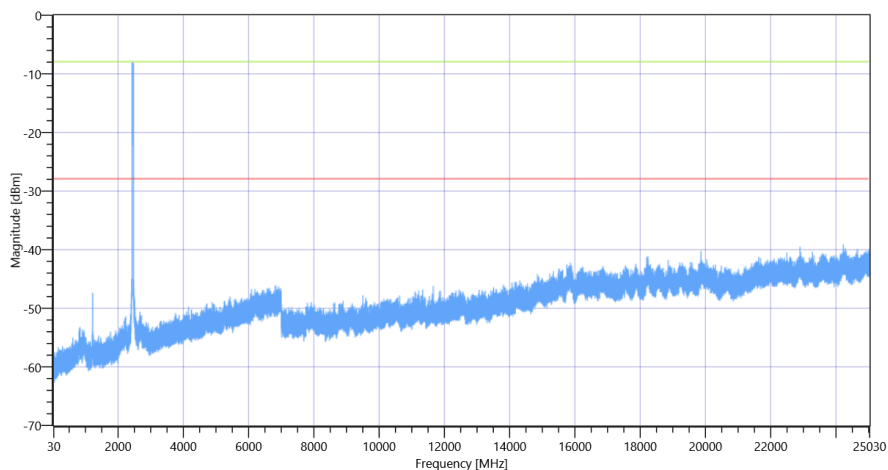
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Ref. Power 1MHz/1MHz cond.	---	---	3.61	dBm	INFO
Ref. Frequency	---	---	2437.010	MHz	INFO

### READ SA SETTINGS:

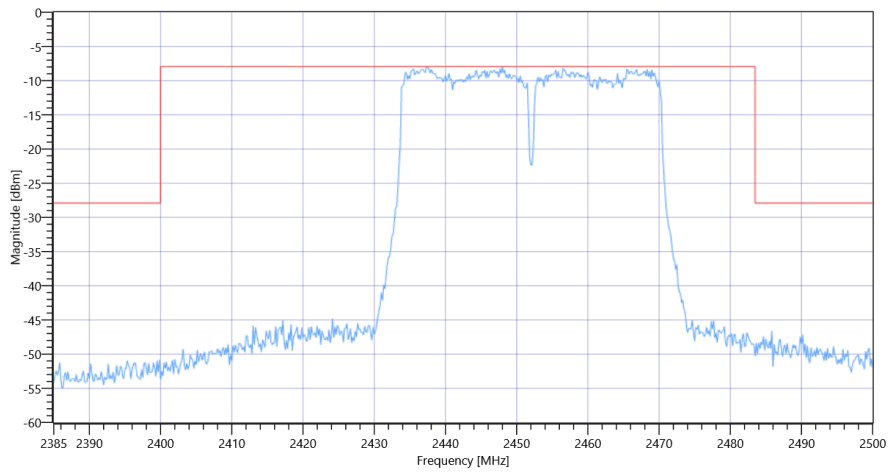
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	3.61   0   20
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	200   25   3001   SWE

### RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2437.33 MHz	---	---	-7.92	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24224.333 MHz	0	---	11.18	dB	INFO



FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode 2452



FCC 15.247 # TX spurious conducted 20dBc ~ WLAN2G4 n-HT40 mode 2452

## FCC 15.247 # Maximum peak conducted output power PM DTS ~ WLAN2G4 n-HT40 mode

### Test References

TC Start	31.10.2022 12:28:44
Ambit Temp [°C]   Humidity [rel%]	27.0   39
System Version	3.3.1.5
Test Specification	FCC 15.247 -
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
TC Version	0.0.1
My Description	FCC 15.247 Max Peak Output Power Powermeter Conducted DTS - WLAN2G4 n-HT40 mode

Add. Information

### EUT Common Settings WLAN2G4

Number of Antenna Ports	1
User Interaction	No

### Test Parameter

Technology to test	WLAN2G4 n-HT40 mode
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2422
Frequency mid to test	False   Freq [MHz] 2437
Frequency high to test	True   Freq [MHz] 2452
Auto Control enabled Power Supply   Climatic Box	No   No
Additional Path Loss [dB]	0.7
Switched Path	EUT - SignalingUnit - PowerMeter

### Test Equipment

Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI

Power sensor,Keysight Technologies,U2021XA,MY59190010,A.04.06

## Test at TX 2452 MHz

### RESULT

<i>Test Description</i>	<i>Lower Limit</i>	<i>Upper Limit</i>	<i>Measured</i>	<i>Unit</i>	<i>Verdict</i>
Found Peak cond.	--	--	19.71	dBm	PASS

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