

Conducted Band Edge

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.67	-46.57	≤-16.33	PASS
ПВ	Anti	High	2462	6.01	-46.21	≤-13.99	PASS
11G	Ant1	Low	2412	-3.15	-32.97	≤-23.15	PASS
ПĞ	Anti	High	2462	-1.89	-45.36	≤-21.89	PASS
11N20SISO	Ant1	Low	2412	-3.15	-37.20	≤-23.15	PASS
1111203130	Anti	High	2462	-1.42	-44.75	≤-21.42	PASS
11N40SISO	Ant1	Low	2422	-5.50	-44.90	≤-25.50	PASS
111403130	AIIU	High	2452	-5.35	-44.25	≤-25.35	PASS

Test Graphs:

11B_Ant	1_Low_2412	
Agilent Spectrum Analyzer - Swept SA	E ALIGN AUTO 01:42:18 PM Aug 22, 2024	quency
Center Freq 2.36500000 GHz PNC: Fast	n Avg Hold: 100/100 TYPE MULTIPE PPPPP	uto Tune
Ref Offset 10.23 dB 10 dB/div Ref 20.00 dBm	Mkr5 2.398 54 GHz -46.570 dBm	uto rune
Log		nter Freq
-10.0	2.3650	00000 GHz
-20.0		Start Freq
	58	00000 GHz
-500 stephniskasky of the stand - growth the stand of the standard of the stan		Stop Freq
-70.0	2.4300	00000 GHz
Start 2.30000 GHz #Res BW 100 kHz	Stop 2.43000 GHz Sweep 12.47 ms (1001 pts) 13.0	CF Step 00000 MHz
MKR MODE TRC SCL X Y		Man
1 N 1 F 2.4.12.84 GHz 3.688 dBm 2 N 1 f 2.400 GHz .47.528 dBm 3 N 1 f 2.390 00 GHz .47.528 dBm 4 N 1 f 2.310 00 GHz .60.420 dBm 4 N 1 f 2.310 00 GHz .60.739 dBT 5 N 1 f 2.336 GHz .46.570 dBm	Fr	req Offset
3 N 1 f 2.390 00 GHz 50.420 dBm 4 N 1 f 2.310 00 GHz 50.739 dBm 5 N 1 f 2.398 54 GHz 46.570 dBm 6		0 Hz
8 9 9		
MSG	STATUS	
Agilent Spectrum Analyzer - Swept SA	1_High_2462	
Center Freq 2.49500000 GHz	#Avg Type: RMS TRACE 123456 Free Avg Hold: 100/100 Type Ministry	juency
IFGain:Low #Atten: 30 dB		uto Tune
Ref Offset 10.23 dB 10 dBldiv Ref 20.00 dBm Log	-46.210 dBm	
		nter Freq 00000 GHz
-10.0	-1339.082	
-30.0	2.4400	Start Freq 00000 GHz
400	3 4 Line June more grown of warder to be able to be	
-60.0		Stop Freq 00000 GHz
Start 2.44000 GHz	Stop 2 55000 GHz	CE Stan
#Res BW 100 kHz #VBW 300 kHz	0.45	CF Step 00000 MHz Man
MrR MODE TRC SCL X Y 1 N 1 f 2.460.46 GHz 6.013 dBm 2 N 1 f 2.483.50 GHz 5.1008 dBm 3 N 1 f 2.500.00 GHz 5.016 dBm	FUNCTION PONCTION WIDTH FUNCTION VALUE	
1 N 1 f 2.460.46 GHz 6.013 dBm 2 N 1 f 2.483.50 GHz 5.1008 dBm 3 N 1 f 2.483.50 GHz 5.1008 dBm 3 N 1 f 2.5000 GHz 5.016 dBm 4 N 1 f 2.506.11 GHz 4.6210 dBm	Fr	0 Hz
9 10 11		
	× 1	
K Miss	STATUS	

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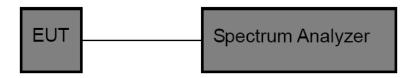
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2) / RSS-247 5.2 a

Test Item	Limit	Frequency Range (MHz)
DTS Bandwidth	≥500 kHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- DTS Spectrum Setting: 2.
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) \geq 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.
 - **OCB Spectrum Setting:**
 - (1) Set RBW = $1\% \sim 5\%$ occupied bandwidth.
 - (2) Set the video bandwidth (VBW) \geq 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

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Test Result

Test Mode	Antenna	Channel	OCB [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
		2412	13.129	9.080	0.5	PASS
11B	Ant1	2437	13.015	9.120	0.5	PASS
		2462	13.031	8.920	0.5	PASS
		2412	16.707	16.520	0.5	PASS
11G	Ant1	2437	16.700	16.520	0.5	PASS
		2462	16.753	16.520	0.5	PASS
		2412	17.580	17.600	0.5	PASS
11N20SISO	Ant1	2437	17.582	17.560	0.5	PASS
		2462	17.571	17.640	0.5	PASS
		2422	35.199	33.920	0.5	PASS
11N40SISO	Ant1	2437	35.114	33.920	0.5	PASS
		2452	35.141	34.160	0.5	PASS

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11B_Ant1_2412

Frequency

Radio Std: None

Center Freq: 2.41200000 GHz Trig: Freq: ALIGN AUT Trig: Freq Run Avg|Hold: 100/100 #Atten: 40 dB Center Freq 2.412000000 GHz dio Device: BTS 2.4126 GH 9.0973 dB Ref Offset 10.23 dB Ref 30.00 dBm Center Free 2.412000000 GH Center 2.412 GHz Res BW 430 kHz Span 40 MHz Sweep 1 ms CF Step #VBW 1.3 MHz 4 00 Total Power 19.8 dBm Occupied Bandwidth 13.129 MHz Freq Offse Transmit Freq Error 10.484 kHz OBW Power 99.00 % 0 H; x dB Bandwidth 16.35 MHz x dB -26.00 dB 11B_Ant1_2437 03:33:53 PM Aug 21, 20 Radio Std: None Center Freq: 2.43700000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 40 dB Frequency enter Freq 2.437000000 GHz Radio Device: BTS 2.43552 GH 9.7814 dBr Ref Offset 10.23 dB Ref 30.00 dBm Center Freq 2.437000000 GH Span 40 MHz Sweep 1 ms enter 2.437 GHz Res BW 430 kHz CF Step #VBW 1.3 MHz Total Power 20.2 dBm Occupied Bandwidth 13.015 MHz Freq Offse Transmit Freq Error 18.126 kHz **OBW Power** 99.00 % 0 Н 16.05 MHz -26.00 dB x dB Bandwidth x dB 11B_Ant1_2462 Frequency SENSE:PULSE ALIGNAUT Center Freq: 2.462000000 GHz Trig: Free Run Avg|Hold: 100/100 #Atten: 40 dB 03:35:56 PM Aug 21, 202 Radio Std: None enter Freq 2.462000000 GHz Radio Device: BTS #IFGa 2.46052 GF 10.113 dB Ref Offset 10.23 dB Ref 30.00 dBm Center Free 2.462000000 GH; Center 2.462 GHz Res BW 430 kHz Span 40 MHz Sweep 1 ms CF Step #VBW 1.3 MHz 4.0 MH Ma 20.4 dBm Total Power Occupied Bandwidth 13.031 MHz Freq Offse Transmit Freq Error -3.757 kHz OBW Power 99.00 % 0 Н 16.16 MHz -26.00 dB x dB Bandwidth x dB

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11G_Ant1_2412

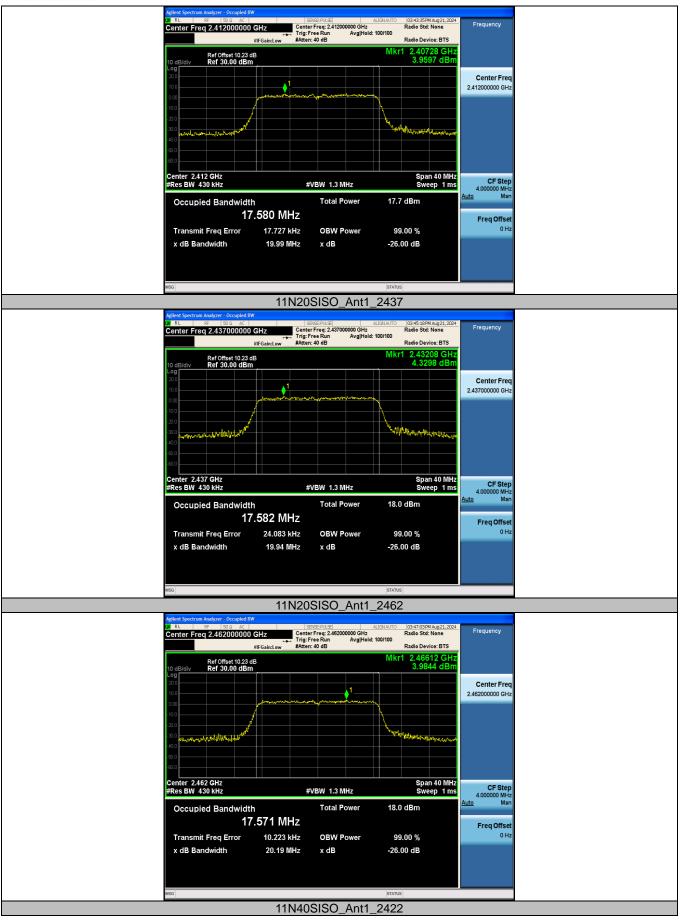
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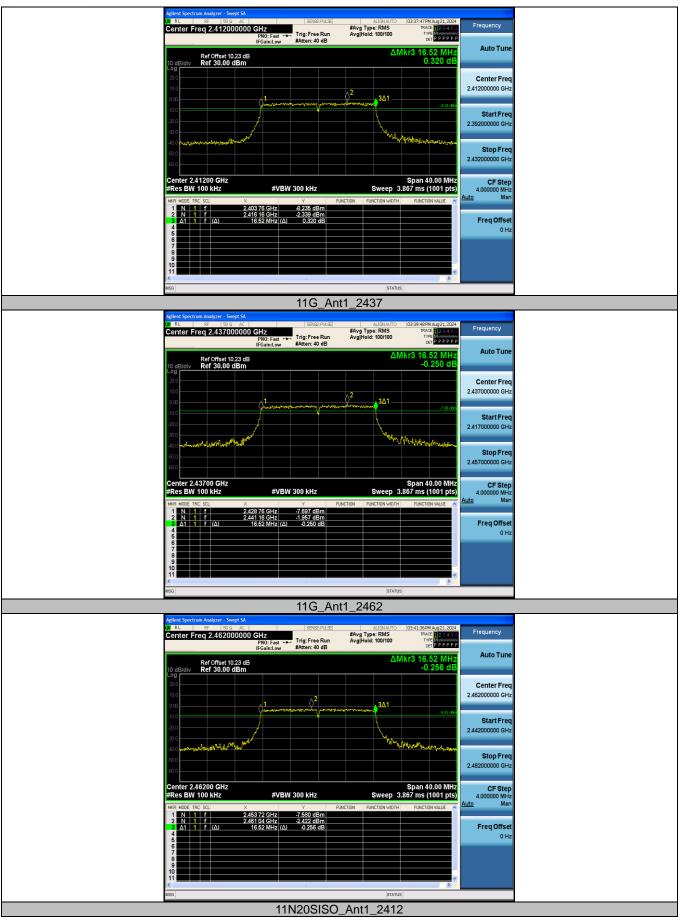




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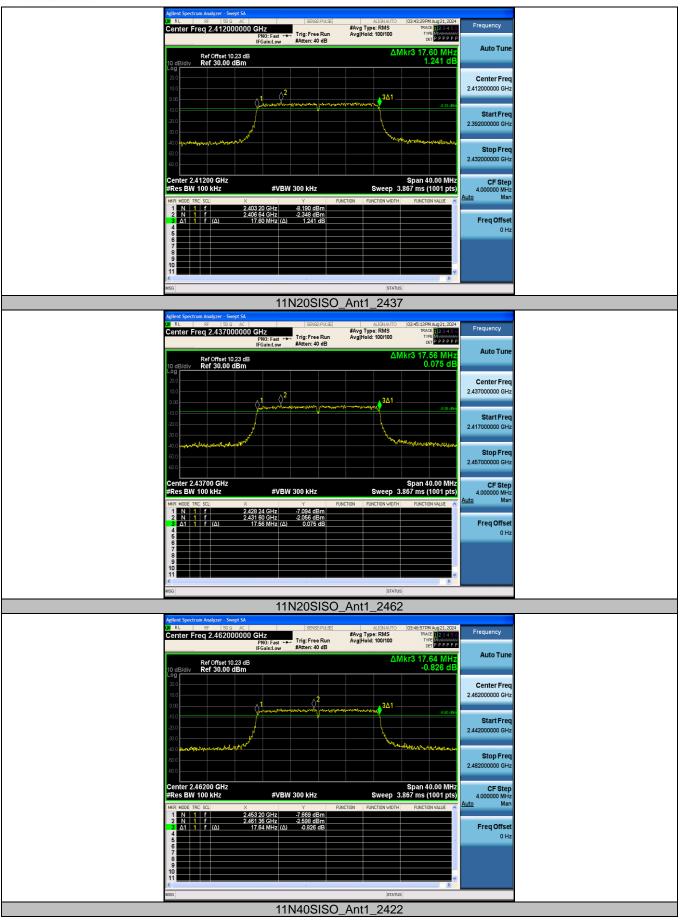






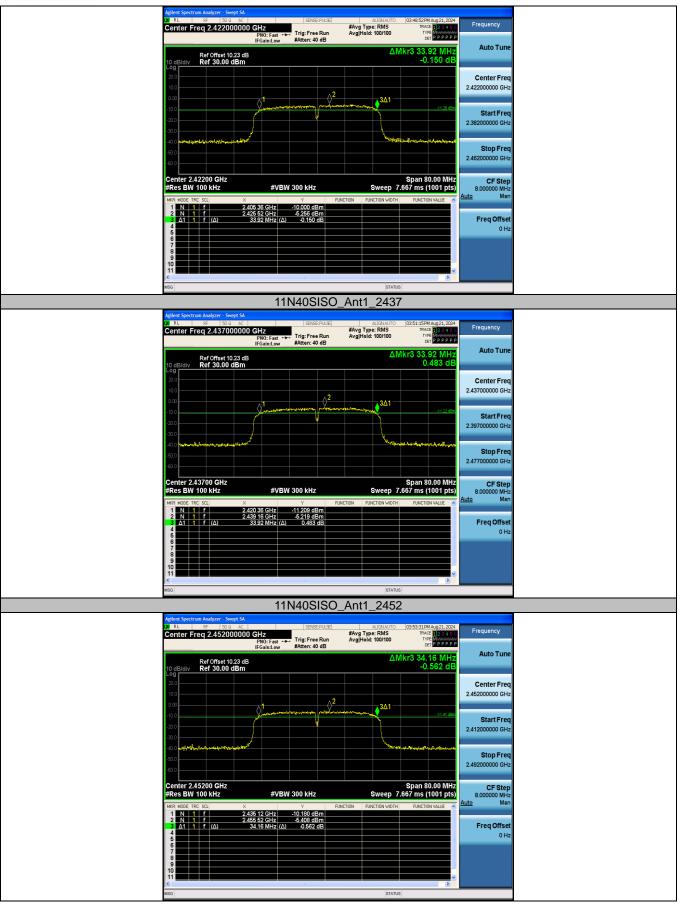
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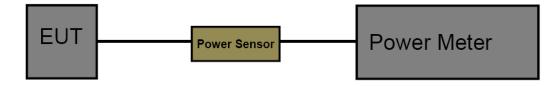
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

- 1. The maximum conducted output power may be measured using a broadband Peak RF power meter.
- 2. Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
- The power meter implemented triggering and gating capabilities which were set up such that power 3. measurements were recorded only during the ON time of the transmitter. Record the measurement data.

Test Mode

ΕN

Please refer to the clause 2.4.



Test Result

Test Mode	Antenna	Channel	Peak Output Power[dBm]	Limit[dBm]	Verdict
		2412	19.38	≤30	PASS
11B	Ant1	2437	19.84	≤30	PASS
		2462	19.96	≤30	PASS
		2412	18.60	≤30	PASS
11G	Ant1	2437	19.05	≤30	PASS
		2462	19.08	≤30	PASS
		2412	19.05	≤30	PASS
11N20SISO	Ant1	2437	19.32	≤30	PASS
		2462	19.41	≤30	PASS
		2422	18.21	≤30	PASS
11N40SISO	Ant1	2437	18.50	≤30	PASS
		2452	18.57	≤30	PASS

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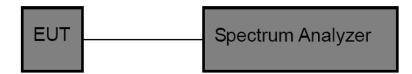
3.7. Power Spectral Density

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.

3. Spectrum Setting:

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz.

Set the VBW to: 10 kHz.

Detector: peak.

Sweep time: auto.

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

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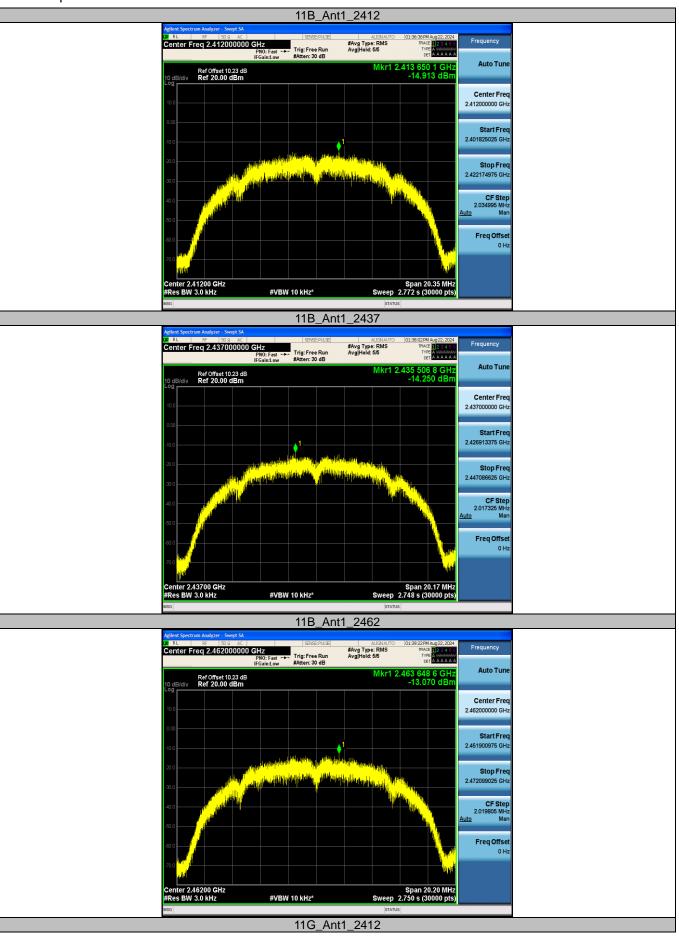
Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2412	-14.91	≤8	PASS
11B	Ant1	2437	-14.25	≤8	PASS
		2462	-13.07	≤8	PASS
		2412	-20.39	≤8	PASS
11G	Ant1	2437	-18.35	≤8	PASS
		2462	-18.81	≤8	PASS
		2412	-21.47	≤8	PASS
11N20SISO	Ant1	2437	-19.65	≤8	PASS
		2462	-19.22	≤8	PASS
		2422	-22.63	≤8	PASS
11N40SISO	Ant1	2437	-21.13	≤8	PASS
		2452	-21.53	≤8	PASS

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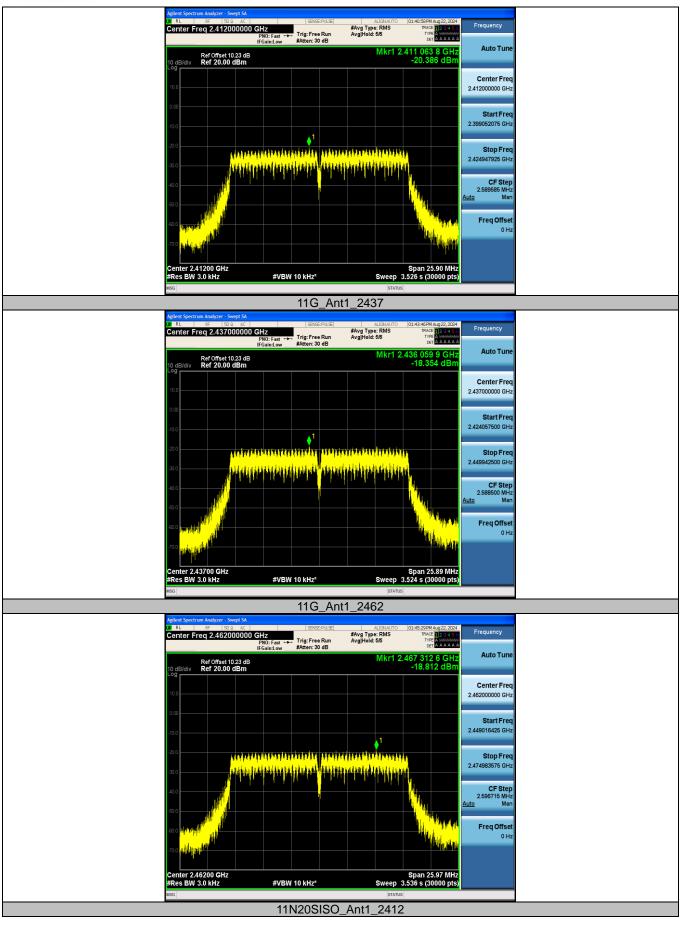




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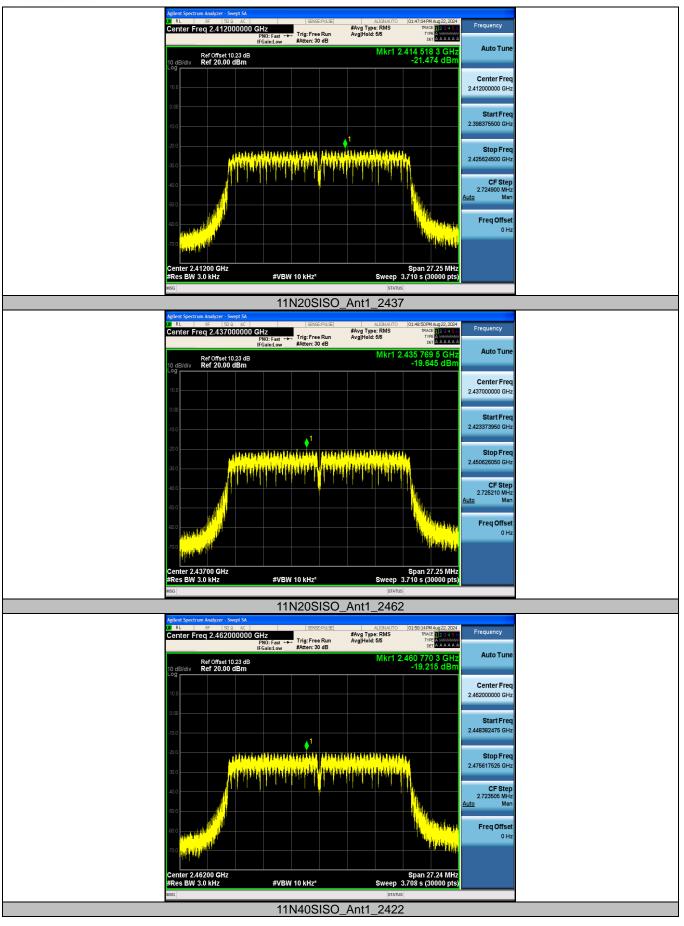




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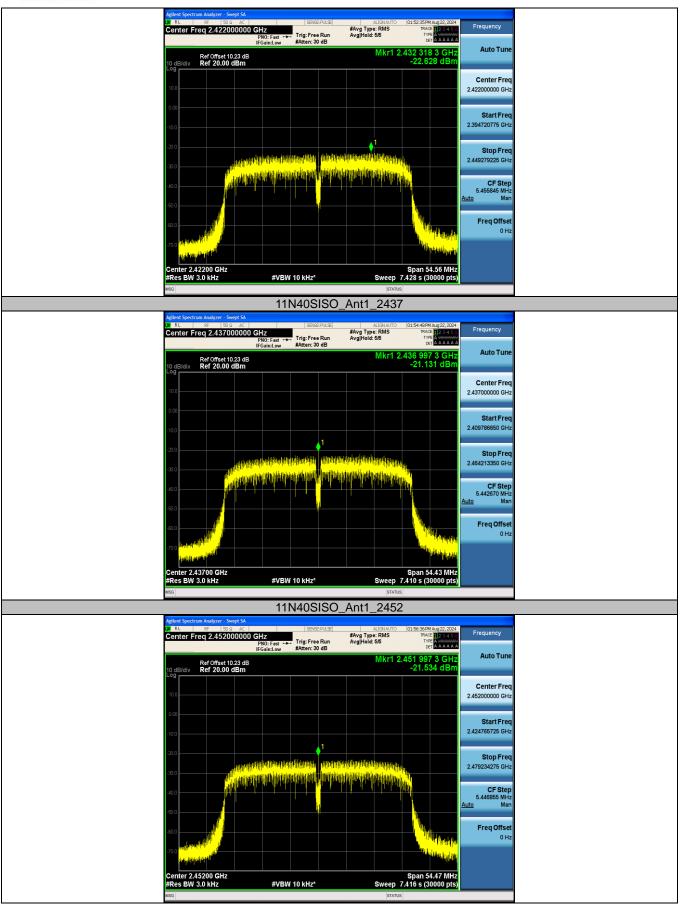




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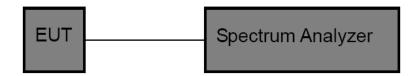


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.

3. Spectrum Setting: Set analyzer center frequency to test channel center frequency. Set the span to 0Hz. Set the RBW to 10MHz. Set the VBW to 10MHz. Detector: Peak. Sweep time: Auto. Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

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Test Result

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
	2412	19.00	19.00	100.00	/	0.01
11B	2437	19.00	19.00	100.00	/	0.01
	2462	19.00	19.00	100.00	/	0.01
	2412	19.00	19.00	100.00	/	0.01
11G	2437	19.00	19.00	100.00	/	0.01
	2462	19.00	19.00	100.00	/	0.01
	2412	19.00	19.00	100.00	/	0.01
11N20SISO	2437	19.00	19.00	100.00	/	0.01
	2462	19.00	19.00	100.00	/	0.01
	2422	19.00	19.00	100.00	/	0.01
11N40SISO	2437	19.00	19.00	100.00	/	0.01
	2452	19.00	19.00	100.00	/	0.01

Note: Duty Cycle>98%, VBW=10Hz

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Test Graphs:	
11B_Ant1_2412 Agilent Spectrum Analyzer - Swept SA	
M RL RF SD_A_AC ISBACE/RLSS ALIGNAUTO [08:31:52PM Aug21, 2024] Center Freq 2.412000000 GHz Trip Delay-2000 ms #Avg Type: RMS TRACE [32:34:56] PNO: Fast Trip State Trip State Trip State IFGaint.ew #Atten: 30 dB cer P P P P P	Frequency
	Auto Tune
Ref Offset 10.23 dB 10 dB/div Ref 30.00 dBm	
20.0	Center Freq 2.412000000 GHz
	Start Freq 2.41200000 GHz
40.0	Stop Freq
	2.412000000 GHz
Center 2.412000000 GHz Span 0 Hz	CF Step
Res BW 8 MHz #VBW 8.0 MHz Sweep 19.00 ms (1001 pts) wsg wood: rec sci X Y PUNCTION FUNCTION WOTH RUNCTION VALUE X	8.000000 MHz <u>Auto</u> Man
	Freq Offset
	0 Hz
11B_Ant1_2437 Agilent Spoctrum Analyzer - Swept SA	
RL SF SD0 AC SEREFLASS ALDRANTO D033400FMA021, 2024 Center Freq 2.437000000 GHz Trig belav2.000 ms #Avg Type: RMS Track Trig belav2.000 ms Avg Type: RMS Track Trig belav2.000 ms Fig: Figure Trig belav2.000 ms #Avg Type: RMS Trig belav2.000 ms Avg Type: RMS Trig belav2.000 ms	Frequency
IFGaint.ow #Atten: 30 db 001	Auto Tune
Ref Offset 10.23 dB 10 dBldiv Ref 30.00 dBm Log	
	Center Freq 2.437000000 GHz
-200	Start Freq 2.437000000 GHz
40.0	Ster Free
	Stop Freq 2.437000000 GHz
Center 2.437000000 GHz Span 0 Hz	CF Step
Res BW 8 MHz #VBW 8.0 MHz Sweep 19.00 ms (1001 pts) HKR MODE TRC SL X Y FUNCTION VIDITH FUNCTION VIDITH FUNCTION VIDITH FUNCTION VIDITH	8.00000 MHz Auto Man
	Freq Offset
	0 Hz
MSG STATUS	
11B_Ant1_2462 Agilerit Spectrum Analyzer - Swept SA	
M RL RF 50.0 AC SIMPLEPULE ALIGNATIO 03:3543PM Aug 21.2024	Frequency
	Auto Tune
Ref Offset 10.23 dB 10 dB/diy Ref 30.00 dBm	
	Center Freq 2.46200000 GHz
	Start Freq 2.46200000 GHz
	Stop Freq 2.46200000 GHz
Center 2.462000000 GHz Span 0 Hz	CF Step
Res BW 8 MHz #VBW 8.0 MHz Sweep 19.00 ms (1001 pts)	8.000000 MHz Man
	Freq Offset 0 Hz
ASG STATUS	
11G_Ant1_2412	





Agilent Spectrum Analyzer - Swept SA μ RL RF 50 Ω AC SENSE-PULSE ALIGN AUTO	03:37:40 PM Aug 21, 2024	
Center Freq 2.412000000 GHz Trig Delay-2.000 ms #Avg Type: RMS Trig: Video	TRACE 123455 TYPE WHAT HAVE TO FREQUENCY	
IFGain:Low #Atten: 30 dB	Auto Tune	
Ref Offset 10.23 dB 10 dB/div Ref 30.00 dBm Log		
20.0	Center Freq 2.412000000 GHz	
	2.412000000 GHz	
-10.0	Start Freq	
-20.0	2.412000000 GHz	
-40.0	Stop Frog	
-50.0	2.412000000 GHz	
Center 2.412000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 1	Span 0 Hz CF Step 9.00 ms (1001 pts) 8.000000 MHz	
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH	FUNCTION VALUE Auto Man	
2 3	FreqOffset	
4 5	0 Hz	
8		
9 10		
KSG STATU	×	
11G_Ant1_2437	1	
Agilent Spectrum Analyzer - Swept SA		
M RF 50 Ω AC SENSE-FULSE ALIGNAUTO Center Freq 2.437000000 GHz Trig Delay-2.000 ms #Avg Type: RMS	03:39:40 PM Aug 21, 2024 TRACE 2 2 3 4 5 6 TYPE	
PNO: Fast →→ Trig: Video IFGain:Low #Atten: 30 dB	DET PPPPP Auto Tune	
Ref Offset 10.23 dB 10 dB/div Ref 30.00 dBm	Auto Tulle	
20.0	Center Freq	
200 Line relation of the relat	2.437000000 GHz	
10.0		
-20.0	2.437000000 GHz	
-30.0		
-40.0	Stop Freq	
-60.0	2.437000000 GHz	
Center 2.437000000 GHz	Span 0 Hz CF Step	
Res BW 8 MHz #VBW 8.0 MHz Sweep 1 MKR MODE TRC SCL × Y FUNCTION FUNCTION WIDTH	9.00 ms (1001 pts) FUNCTION VALUE Auto Man	
3 4	Freq Offset	
7		
8		
	~	
MSG STATU	8	
11G_Ant1_2462		
Agilent Spectrum Analyzer - Swept SA RL RF SD Q AC SENSE: PLUSE ALIGN AUTO	03:41:29PM Aug 21, 2024 TRAFE Discourses Frequency	
DP RL RF SDQ. AC ISPREFALSE ALISVAUTO Center Freq 2.462000000 CHz Trig Delay2.000 ms #Avg Type: RMS PN0: Fast Frig: Wideo IF/Ginit.ow #Aver: 30 dB	TRACE 123456 TYPE WWWWWWW DET PPPPP	
	Auto Tune	
Ref Offset 10.23 dB 10 dB/div Ref 30.00 dBm Log		
200 อาการสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารประสารป	Center Freq	
	2.462000000 GHz	
-10.0	Start Freq	
-20.0	2.462000000 GHz	
-40.0	Stop Freq	
-50.0 -60.0	2.462000000 GHz	
Center 2.462000000 GHz	Span 0 Hz CF Step	
Res BW 8 MHz #VBW 8.0 MHz Sweep 1	9.00 ms (1001 pts) 8.000000 MHz	
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
	Freq Offset	
	0 Hz	
9		
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Agilent Spectrum Analyzer - Swept SA Mailyzer - Swept SA μ RL RF 50 g. AC SENSE-PULSE ALIGNAUTO 03:43:22PI	M Aug 21, 2024	
Center Freq 2.412000000 GHz PN0: Fast →→ Trig: Video	Trequency Frequency Frequency	
IFGain:Low_#Atten: 30 dB	Auto Tune	
Ref Offset 10.23 dB 10 dB/div Ref 30.00 dBm		
	Center Freq	
	2.412000000 GHz	
10.00		
-20.0	2.412000000 GHz	
-30.0		
-40.0	Stop Freq	
-60.0	2.412000000 GHz	
Center 2.412000000 GHz S	Span 0 Hz CF Step	
Res BW 8 MHz #VBW 8.0 MHz Sweep 19.00 ms ((1001 pts) 8.000000 MHz	
	Freq Offset	
	0 Hz	
7 8		
9 10 11		
<	<u>></u>	
11N20SISO_Ant1_2437		
Aglent Spectrum Analyzer - Swept SA Value RF SO Ω AC ISENSE PLUSE ALISN AUTO 03:45:05P Center Frenz 24.70000000 GH-z Trig Delay2.000 ms #Avg Type: RMS TRA	MAug21, 2024 CE 12 94 5 6 Frequency	
Center Freq 2.437000000 GHz PN0: Fast + Trig Delay-2.000 ms #Avg Type: RMS PN0: Fast + Trig: Video WFGaintow #Aten: 30 dB	NE 23456 Frequency PE WHAT WHAT DET P P	
	Auto Tune	
Ref Offset 10.23 dB 10 dB/div Ref 30.00 dBm Log		
20.0	Center Freq	
	2.437000000 GHz	
-10.0	Start Freq	
-20.0	2.437000000 GHz	
-500	Stop Freq	
-50.0	2.437000000 GHz	
Center 2.437000000 GHz S	Span 0 Hz CF Step	
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Agilent Spectrum Analyzer - Swept SA	
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3.9. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i)

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.

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