

802.11n HT20

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	-36.022	-20	PASS
2483.50	-51.616	-20	PASS

Start Freq 2.350000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 7.667 ms (1001 pts) Mkr1 2.406 16 GHz -5.483 dBm Center Freq 2.390000000 GHz Start Freq 2.350000000 GHz Stop Freq 2.430000000 GHz CF Step 8.000000000 MHz Freq Offset 0 Hz Scale Type Log	Start Freq 2.450000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) Mkr1 2.454 9 GHz -6.303 dBm Center Freq 2.500000000 GHz Start Freq 2.450000000 GHz Stop Freq 2.550000000 GHz CF Step 10.000000000 MHz Freq Offset 0 Hz Scale Type Log
2412	2462

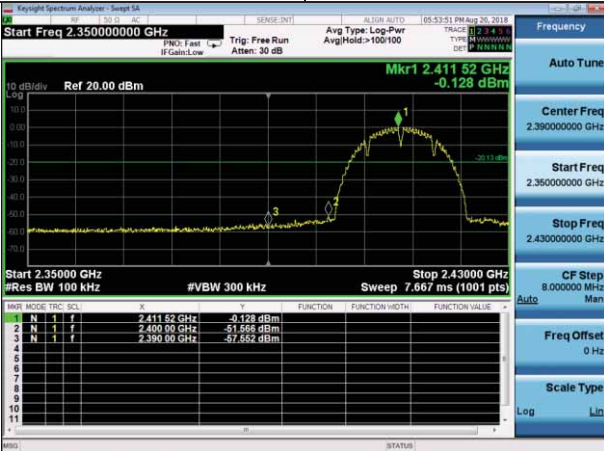
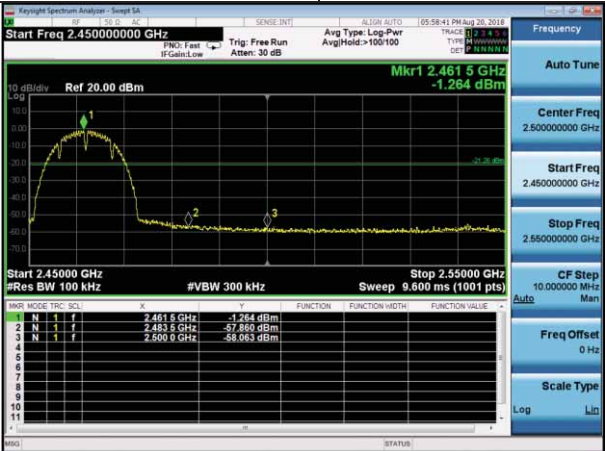
802.11n HT40

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	-32.521	-20	PASS
2483.50	-46.704	-20	PASS

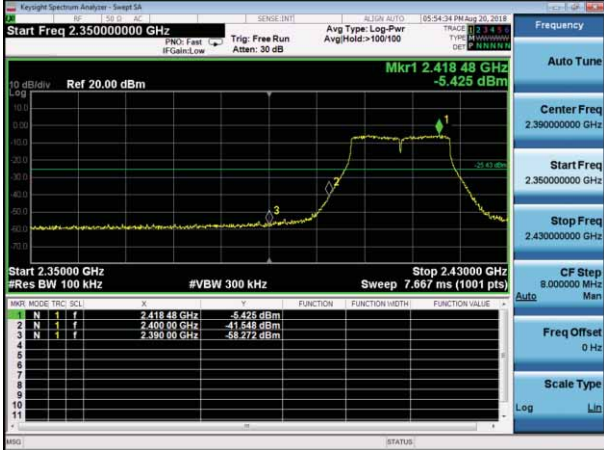
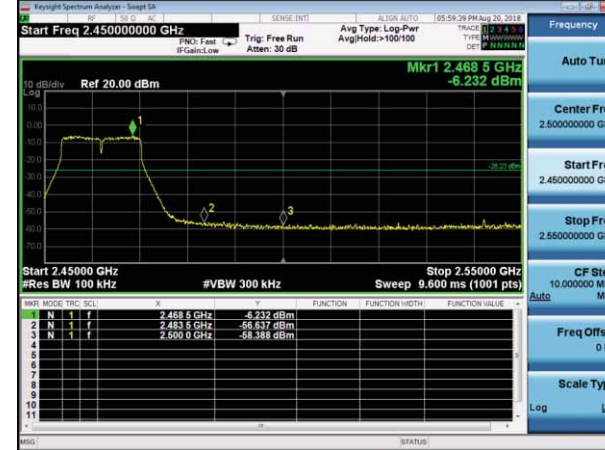
Start Freq 2.350000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) Mkr1 2.436 0 GHz -9.592 dBm Center Freq 2.400000000 GHz Start Freq 2.350000000 GHz Stop Freq 2.450000000 GHz CF Step 10.000000000 MHz Freq Offset 0 Hz Scale Type Log	Start Freq 2.430000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 11.53 ms (1001 pts) Mkr1 2.453 52 GHz -9.566 dBm Center Freq 2.490000000 GHz Start Freq 2.430000000 GHz Stop Freq 2.550000000 GHz CF Step 12.000000000 MHz Freq Offset 0 Hz Scale Type Log
2422	2452

Antenna 2

802.11b			
Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	-51.438	-20	PASS
2483.50	-56.596	-20	PASS

		2412	
		2462	

802.11g			
Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	-36.123	-20	PASS
2483.05	-50.405	-20	PASS

		2412	
		2462	

802.11n HT20

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	-33.756	-20	PASS
2483.50	-49.406	-20	PASS

Start Freq 2.350000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 7.667 ms (1001 pts) Mkr1 2.406 16 GHz -7.548 dBm Center Freq 2.390000000 GHz Start Freq 2.350000000 GHz Stop Freq 2.430000000 GHz CF Step 8.000000000 MHz Freq Offset 0 Hz Scale Type Log	Start Freq 2.450000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) Mkr1 2.456 0 GHz -5.499 dBm Center Freq 2.500000000 GHz Start Freq 2.450000000 GHz Stop Freq 2.550000000 GHz CF Step 10.000000000 MHz Freq Offset 0 Hz Scale Type Log
2412	2462

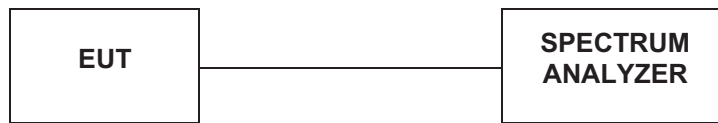
802.11n HT40

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	-32.17	-20	PASS
2483.50	-47.121	-20	PASS

Start Freq 2.350000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) Mkr1 2.434 3 GHz -11.168 dBm Center Freq 2.400000000 GHz Start Freq 2.350000000 GHz Stop Freq 2.450000000 GHz CF Step 10.000000000 MHz Freq Offset 0 Hz Scale Type Log	Start Freq 2.430000000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 11.53 ms (1001 pts) Mkr1 2.453 52 GHz -10.255 dBm Center Freq 2.490000000 GHz Start Freq 2.430000000 GHz Stop Freq 2.550000000 GHz CF Step 12.000000000 MHz Freq Offset 0 Hz Scale Type Log
2422	2452

4.7. Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013, For 9KHz-150kHz, Set RBW=1kHz and VBW= 3KHz;For 150KHz-10MHz, Set RBW=10kHz and VBW= 30KHz;For 10MHz-25GHz ,Set RBW=100kHz and VBW= 300KHz in order to measure the peak field strength, and measure frequency range from 9KHz to 25GHz.

LIMIT

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.
3. For below 30MHz, For 9KHz-150kHz, 150K-10MHz, We use the RBW 1KHz, 10KHz, So the limit need to be calculated by " $10\lg(BW1/BW2)$ ". for example For 9KHz-150kHz, RBW 1KHz, The Limit= the highest emission level-20-10log(100/1)= the highest emission level-40.

TEST RESULTS

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data and record the worst test data for Antenna 1 in report .

Test Mode:	802.11b	Test channel :	01
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KeySight Spectrum Analyzer - Sweep SA

Center Freq 2.412000000 GHz

PN0: Fast
IF Gain: Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr
Avg/Hold: >100/100

06:24:42 PM Aug 20, 2018

TRACE 1 2 3 4 5 6
TYPE M W W W W W W
DET P N N N N N N

Frequency

Auto Tune

Center Freq
2.412000000 GHz

Start Freq
2.397000000 GHz

Stop Freq
2.427000000 GHz

CF Step
3.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log

Lin

10 dB/div
Log

Ref 25.00 dBm

Mkr1 2.411 49 GHz
4.731 dBm

-15.27 dBm

Center 2.41200 GHz
#Res BW 100 kHz

#VBW 300 kHz

Span 30.00 MHz
Sweep 2.933 ms (1001 pts)

MSO

STATUS

Channel 01

KeySight Spectrum Analyzer - Sweep SA

Marker 1 2.373330000000 GHz

PN0: Fast
IF Gain: Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr
Avg/Hold: 37/100

06:24:58 PM Aug 20, 2018

TRACE 1 2 3 4 5 6
TYPE M W W W W W W
DET P N N N N N N

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More
1 of 2

10 dB/div
Log

Ref 25.00 dBm

Mkr1 2.373 3 GHz
-50.588 dBm

-15.27 dBm

Start 0.030 GHz
#Res BW 100 kHz

#VBW 300 kHz

Stop 3.000 GHz
Sweep 283.9 ms (1001 pts)

MSO

STATUS

30MHz ~3GHz

KeySight Spectrum Analyzer - Sweep SA

Marker 1 21.480000000000 GHz

PN0: Fast
IF Gain: Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr
Avg/Hold: 1/100

06:25:07 PM Aug 20, 2018

TRACE 1 2 3 4 5 6
TYPE M W W W W W W
DET P N N N N N N

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More
1 of 2

10 dB/div
Log

Ref 25.00 dBm

Mkr1 21.480 GHz
-41.639 dBm

-15.27 dBm

Start 3.00 GHz
#Res BW 100 kHz

#VBW 300 kHz

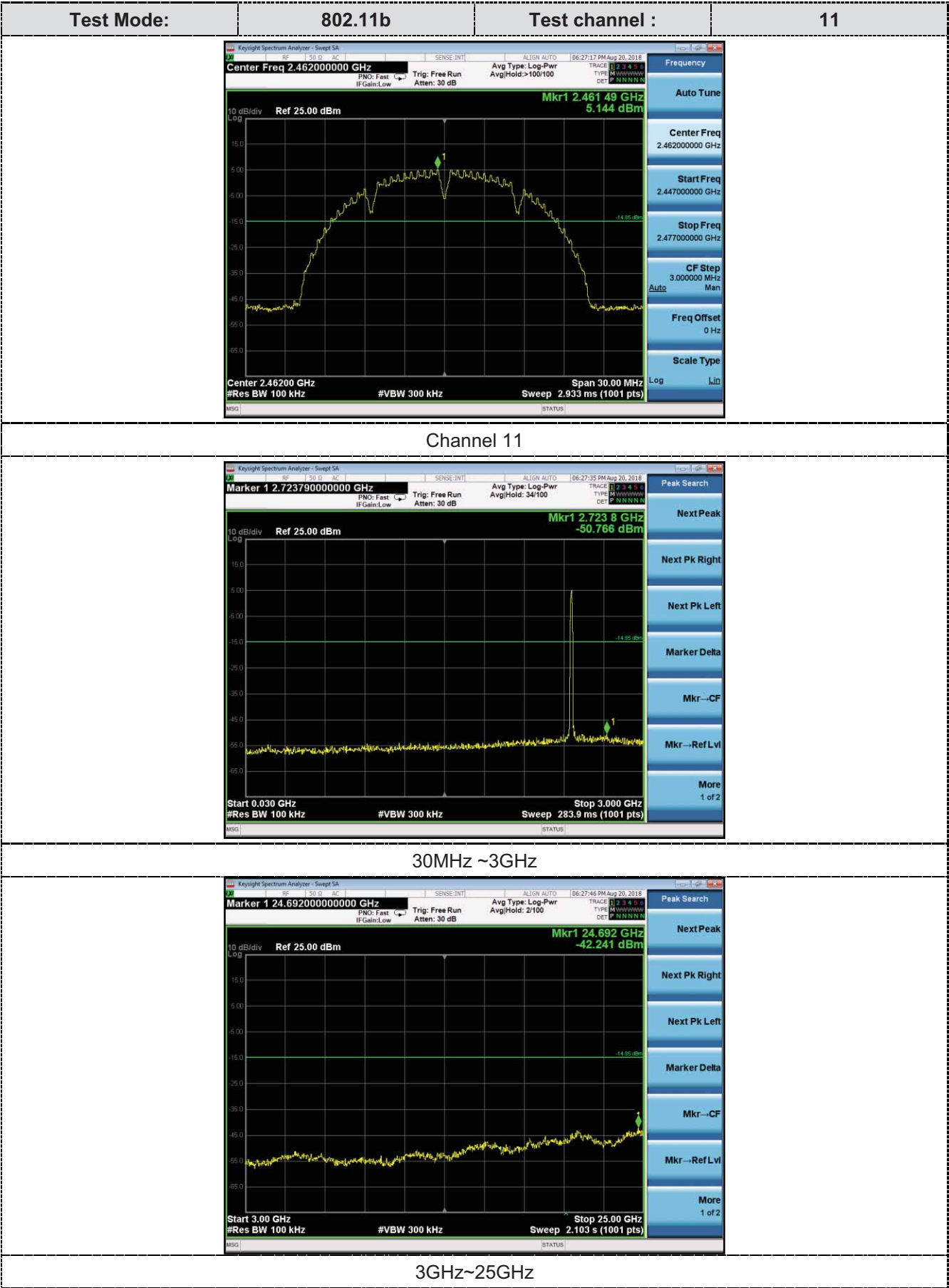
Stop 25.00 GHz
Sweep 2.103 s (1001 pts)

MSO

STATUS

3GHz~25GHz

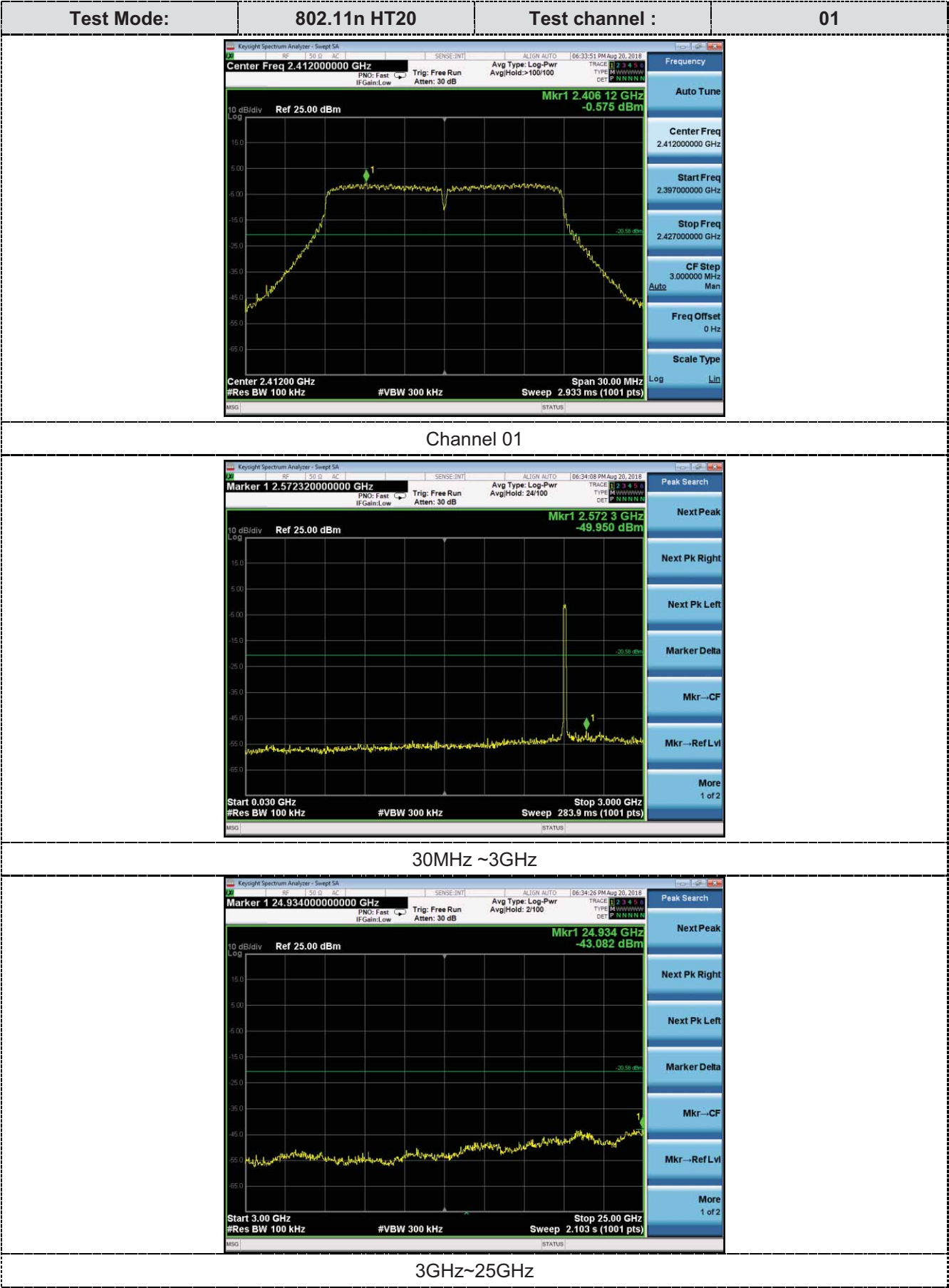
Test Mode:	802.11b	Test channel :	06
KeySight Spectrum Analyzer - Swept SA Center Freq 2.437000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:26:05 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.437 51 GHz 5.217 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.452000000 GHz CF Step 3.000000 MHz Man Auto Freq Offset 0 Hz Scale Type Log Lin			
Channel 06			
KeySight Spectrum Analyzer - Swept SA Marker 1 2.572320000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:26:29 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.572 3 GHz -51.499 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz~3GHz			
KeySight Spectrum Analyzer - Swept SA Marker 1 24.758000000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:26:40 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 24.758 GHz -42.826 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			



Test Mode:	802.11g	Test channel :	01
KeySight Spectrum Analyzer - Swept SA Center Freq 2.412000000 GHz PN1: Fast IF Gain: Low SENSE:INT Trig: Free Run Atten: 30 dB ALIGN AUTO Avg Type: Log-Pwr Avg/Hold: >100/100 06:30:16 PM Aug 20, 2018 TRACE 1 2 3 4 5 6 TYPE: M W W W W W W W DET: P N N N N N N 10 dB/div Ref 25.00 dBm Log Mkr1 2.418 51 GHz 1.797 dBm Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.397000000 GHz Stop Freq 2.427000000 GHz CF Step 3.000000 MHz Man Freq Offset 0 Hz Scale Type Log Lin			
Channel 01			
KeySight Spectrum Analyzer - Swept SA Marker 1 2.703000000000 GHz PN1: Fast IF Gain: Low SENSE:INT Trig: Free Run Atten: 30 dB ALIGN AUTO Avg Type: Log-Pwr Avg/Hold: 31/100 06:30:39 PM Aug 20, 2018 TRACE 1 2 3 4 5 6 TYPE: M W W W W W W W DET: P N N N N N N 10 dB/div Ref 25.00 dBm Log Mkr1 2.703 0 GHz -50.619 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz~3GHz			
KeySight Spectrum Analyzer - Swept SA Marker 1 24.670000000000 GHz PN1: Fast IF Gain: Low SENSE:INT Trig: Free Run Atten: 30 dB ALIGN AUTO Avg Type: Log-Pwr Avg/Hold: 5/100 06:30:48 PM Aug 20, 2018 TRACE 1 2 3 4 5 6 TYPE: M W W W W W W W DET: P N N N N N N 10 dB/div Ref 25.00 dBm Log Mkr1 24.670 GHz -42.268 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			



Test Mode:	802.11g	Test channel :	11
KeySight Spectrum Analyzer - Swept SA Center Freq 2.462000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:32:39 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.468 51 GHz -0.430 dBm Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.447000000 GHz Stop Freq 2.477000000 GHz CF Step 3.000000 MHz Man Auto Freq Offset 0 Hz Scale Type Log Lin			
Channel 11			
KeySight Spectrum Analyzer - Swept SA Marker 1 2.542620000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:33:58 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.542 6 GHz -50.526 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz~3GHz			
KeySight Spectrum Analyzer - Swept SA Marker 1 24.582000000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:33:09 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 24.582 GHz -42.239 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			



Test Mode:	802.11n HT20	Test channel :	06
Keyight Spectrum Analyzer - Sweep SA Center Freq 2.437000000 GHz RF 50.0 AC SENSE:INT ALIGN AUTO 06:35:10 PM Aug 20, 2018 Trig: Free Run Avg Type: Log-Pwr PN0: Fast IF Gain: Low Atten: 30 dB Avg Hold: >100/100 TRACE 1 2 3 4 5 6 TYPE M W W W W W W DET P N N N N N 10 dB/div Ref 25.00 dBm Log Mkr1 2.442 88 GHz -0.394 dBm Span 30.00 MHz Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.452000000 GHz CF Step 3.000000 MHz Man Freq Offset 0 Hz Scale Type Log Lin			
Channel 06			
Keyight Spectrum Analyzer - Sweep SA Marker 1 2.515890000000 GHz RF 50.0 AC SENSE:INT ALIGN AUTO 06:35:28 PM Aug 20, 2018 Trig: Free Run Avg Type: Log-Pwr PN0: Fast IF Gain: Low Atten: 30 dB Avg Hold: 48/100 TRACE 1 2 3 4 5 6 TYPE M W W W W W W DET P N N N N N 10 dB/div Ref 25.00 dBm Log Mkr1 2.515 9 GHz -49.290 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 283.9 ms (1001 pts) MSG STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz ~3GHz			
Keyight Spectrum Analyzer - Sweep SA Marker 1 24.736000000000 GHz RF 50.0 AC SENSE:INT ALIGN AUTO 06:35:36 PM Aug 20, 2018 Trig: Free Run Avg Type: Log-Pwr PN0: Fast IF Gain: Low Atten: 30 dB Avg Hold: 1/100 TRACE 1 2 3 4 5 6 TYPE M W W W W W W DET P N N N N N 10 dB/div Ref 25.00 dBm Log Mkr1 24.736 GHz -43.274 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.103 s (1001 pts) MSG STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			

Test Mode:	802.11n HT20	Test channel :	11
KeySight Spectrum Analyzer - Sweep SA Center Freq 2.462000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:36:09 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.454 86 GHz -0.556 dBm Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.447000000 GHz Stop Freq 2.477000000 GHz CF Step 3.000000 MHz Man Auto Freq Offset 0 Hz Scale Type Log Lin			
Channel 11			
KeySight Spectrum Analyzer - Sweep SA Marker 1 2.581230000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:36:31 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.581 2 GHz -49.959 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz ~3GHz			
KeySight Spectrum Analyzer - Sweep SA Marker 1 24.934000000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:36:48 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 24.934 GHz -42.363 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			

Test Mode:	802.11n HT40	Test channel :	03
KeySight Spectrum Analyzer - Sweep SA Center Freq 2.422000000 GHz 10 dB/div Ref 25.00 dBm Log Mkr1 2.419 12 GHz -4.704 dBm Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Span 60.00 MHz Sweep 5.800 ms (1001 pts) SENSE:INT ALIGN: AUTO 06:37:20 PM Aug 20, 2018 Trig: Free Run Avg Type: Log-Pwr Avg/Hold: >100/100 TYPE: M DET: P Auto Tune Center Freq 2.422000000 GHz Start Freq 2.392000000 GHz Stop Freq 2.452000000 GHz CF Step 6.000000 MHz Man Freq Offset 0 Hz Scale Type Log			
Channel 03			
KeySight Spectrum Analyzer - Sweep SA Marker 1 2.723790000000 GHz 10 dB/div Ref 25.00 dBm Log Mkr1 2.723 8 GHz -50.411 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) SENSE:INT ALIGN: AUTO 06:37:41 PM Aug 20, 2018 Trig: Free Run Avg Type: Log-Pwr Avg/Hold: 56/100 TYPE: M DET: P Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz ~3GHz			
KeySight Spectrum Analyzer - Sweep SA Marker 1 24.164000000000 GHz 10 dB/div Ref 25.00 dBm Log Mkr1 24.164 GHz -40.638 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) SENSE:INT ALIGN: AUTO 06:37:49 PM Aug 20, 2018 Trig: Free Run Avg Type: Log-Pwr Avg/Hold: 1/100 TYPE: M DET: P Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			

Test Mode:	802.11n HT40	Test channel :	06
KeySight Spectrum Analyzer - Sweep SA Center Freq 2.437000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:38:33 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.440 12 GHz -4.623 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 60.00 MHz Sweep 5.800 ms (1001 pts) Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.407000000 GHz Stop Freq 2.467000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz Scale Type Log Lin			
Channel 06			
KeySight Spectrum Analyzer - Sweep SA Marker 1 2.242650000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:38:48 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 2.242 7 GHz -52.232 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz ~3GHz			
KeySight Spectrum Analyzer - Sweep SA Marker 1 24.186000000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:38:58 PM Aug 20, 2018 10 dB/div Ref 25.00 dBm Mkr1 24.186 GHz -43.128 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			

Test Mode:	802.11n HT40	Test channel :	09
KeySight Spectrum Analyzer - Swept SA Center Freq 2.452000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:39:23 PM Aug 20, 2018 SENSE:INT ALIGN: AUTO TYPE: M W W W W W W W DET: P N N N N N N PN0: Fast IF Gain: Low Atten: 30 dB Avg/Hold: >100/100 10 dB/div Ref 25.00 dBm Mkr1 2.455 12 GHz -4.803 dBm Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Span 60.00 MHz Sweep 5.800 ms (1001 pts) Frequency Auto Tune Center Freq 2.452000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.482000000 GHz CF Step 6.000000 MHz Man Auto Freq Offset 0 Hz Scale Type Log Lin			
Channel 09			
KeySight Spectrum Analyzer - Swept SA Marker 1 2.720820000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:39:48 PM Aug 20, 2018 SENSE:INT ALIGN: AUTO TYPE: M W W W W W W W DET: P N N N N N N PN0: Fast IF Gain: Low Atten: 30 dB Avg/Hold: 34/100 10 dB/div Ref 25.00 dBm Mkr1 2.720 8 GHz -50.946 dBm Start 0.030 GHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz~3GHz			
KeySight Spectrum Analyzer - Swept SA Marker 1 21.458000000000 GHz Trig: Free Run Avg Type: Log-Pwr 06:39:51 PM Aug 20, 2018 SENSE:INT ALIGN: AUTO TYPE: M W W W W W W W DET: P N N N N N N PN0: Fast IF Gain: Low Atten: 30 dB Avg/Hold: 2/100 10 dB/div Ref 25.00 dBm Mkr1 21.458 GHz -42.495 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
3GHz~25GHz			

4.8. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR 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.

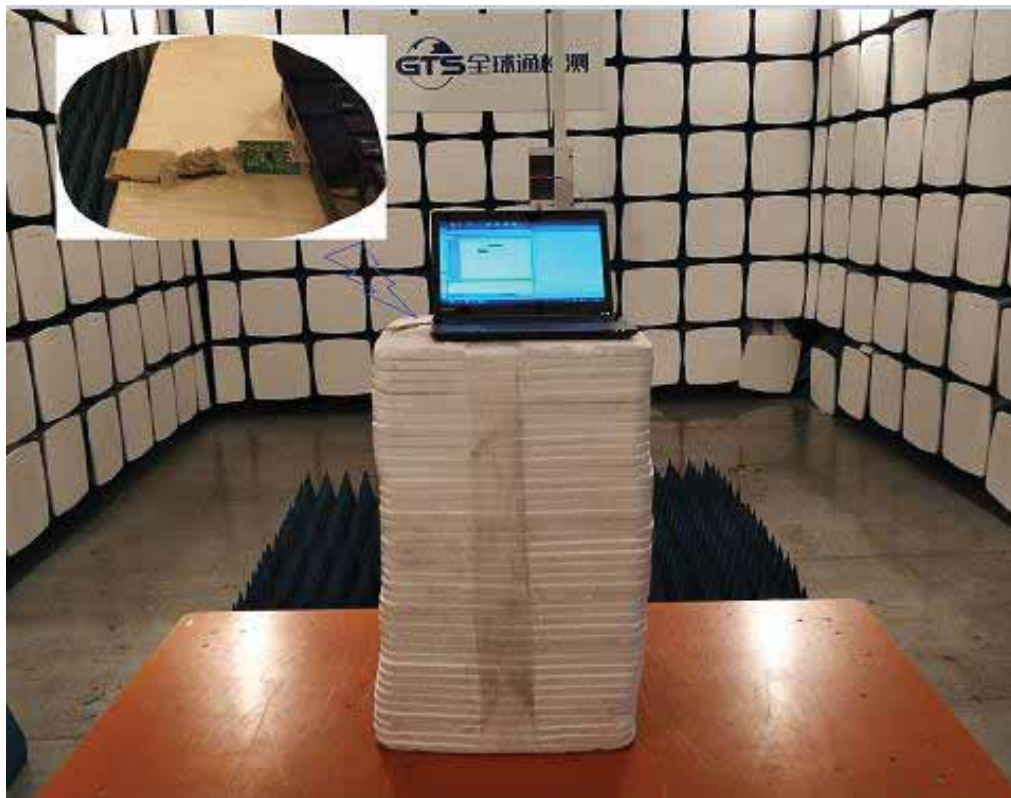
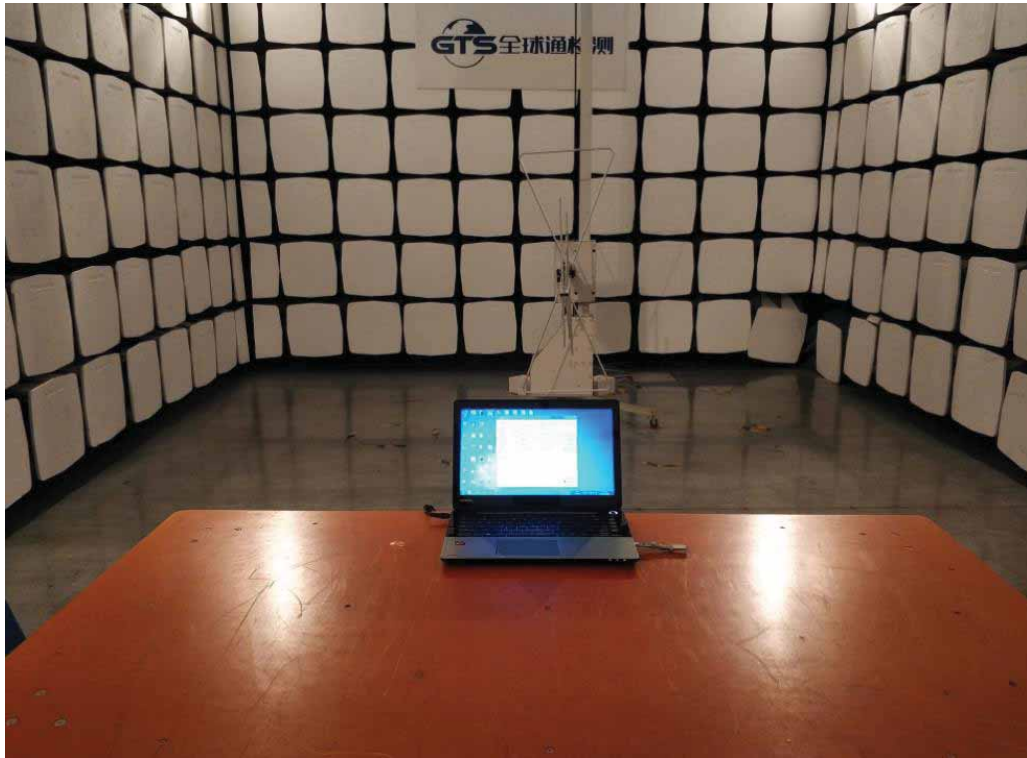
And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Result

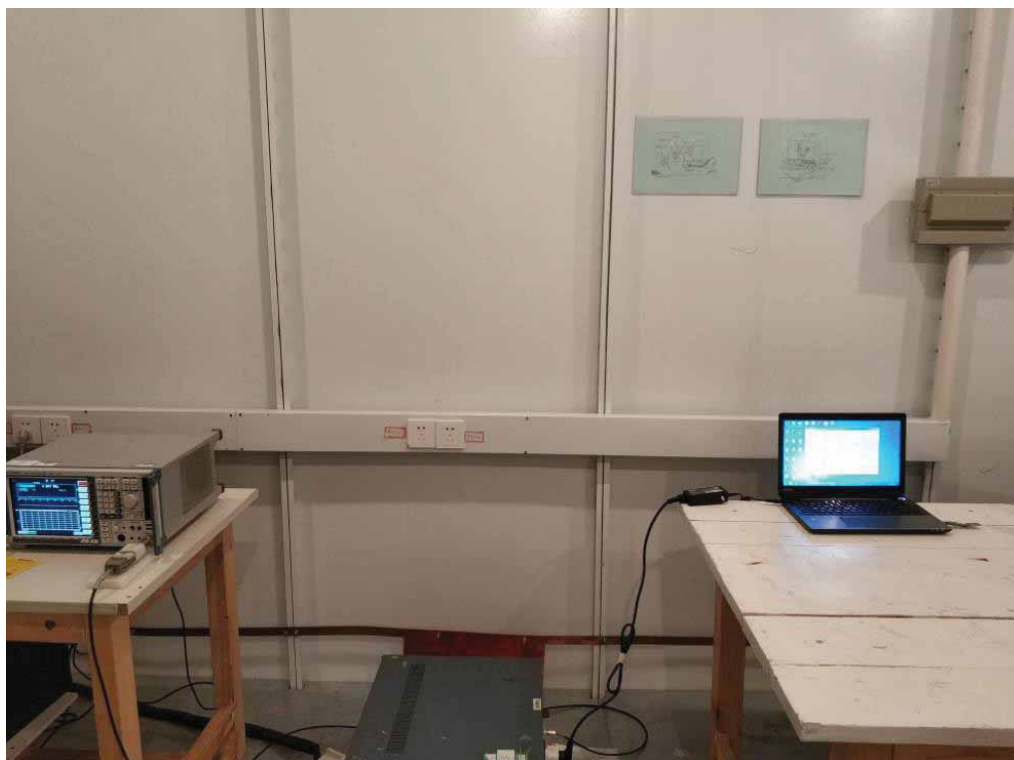
The antenna used for this product is external Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0.83dBi.

5. Test Setup Photos of the EUT

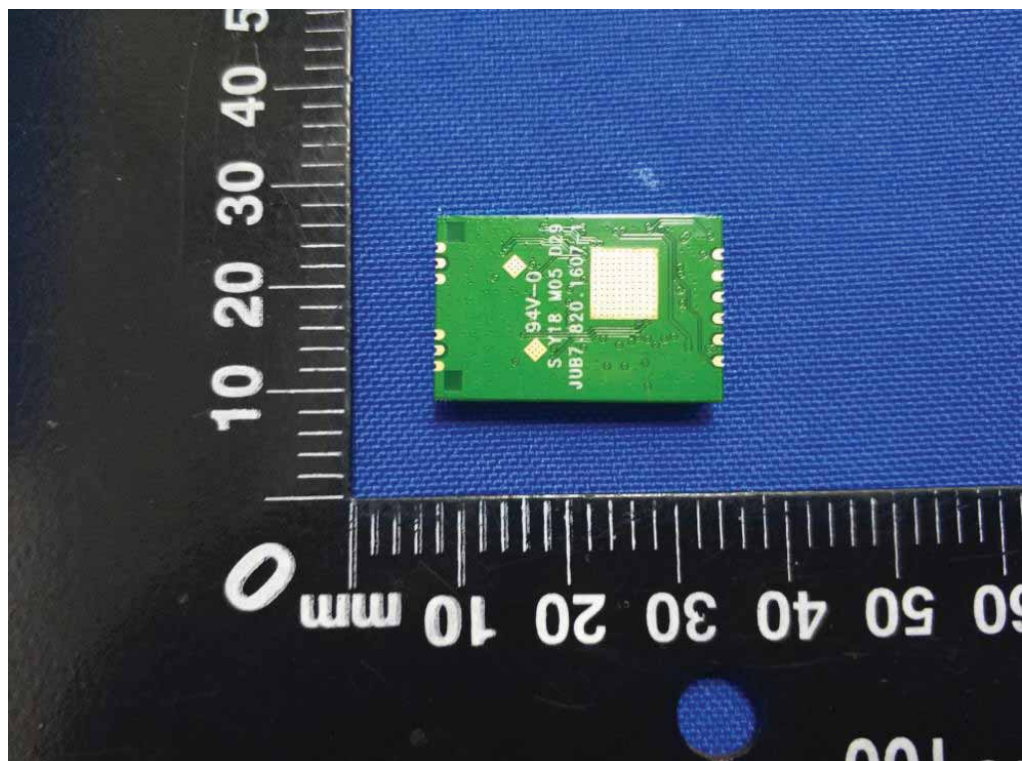
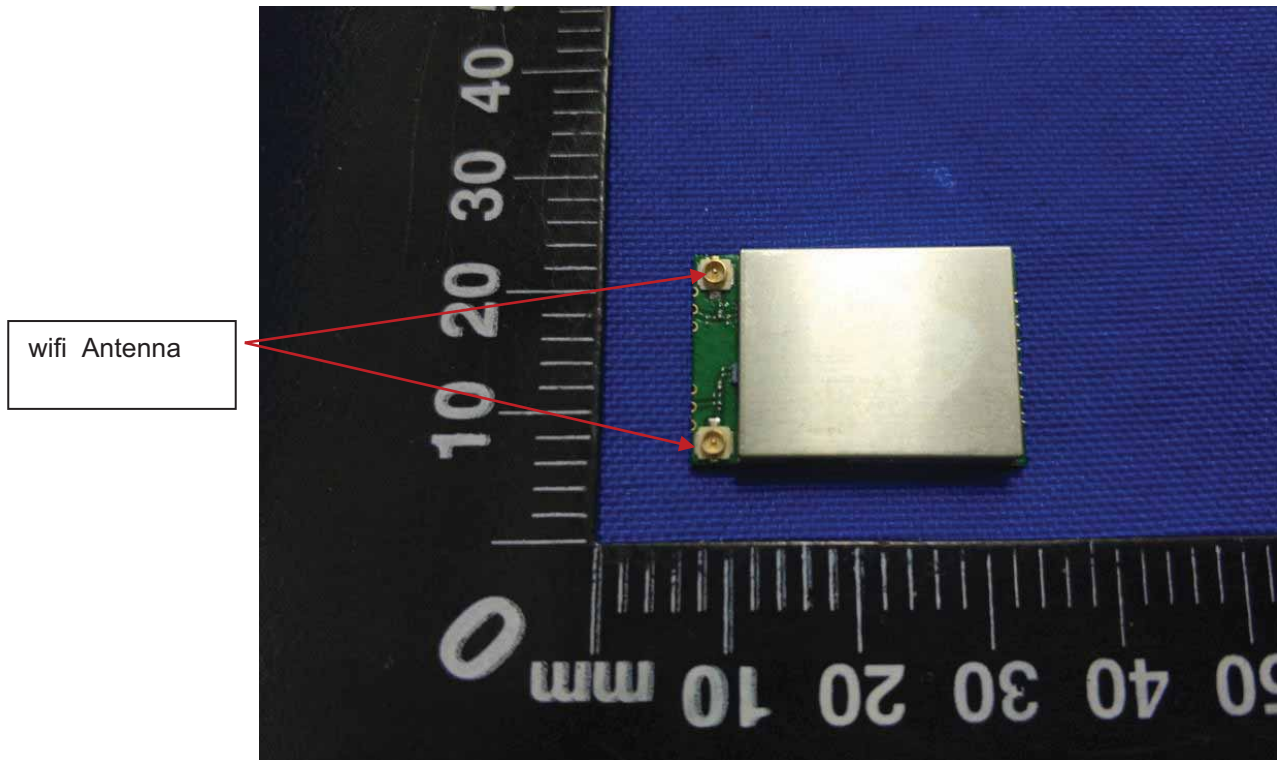
Radiated Emission Test

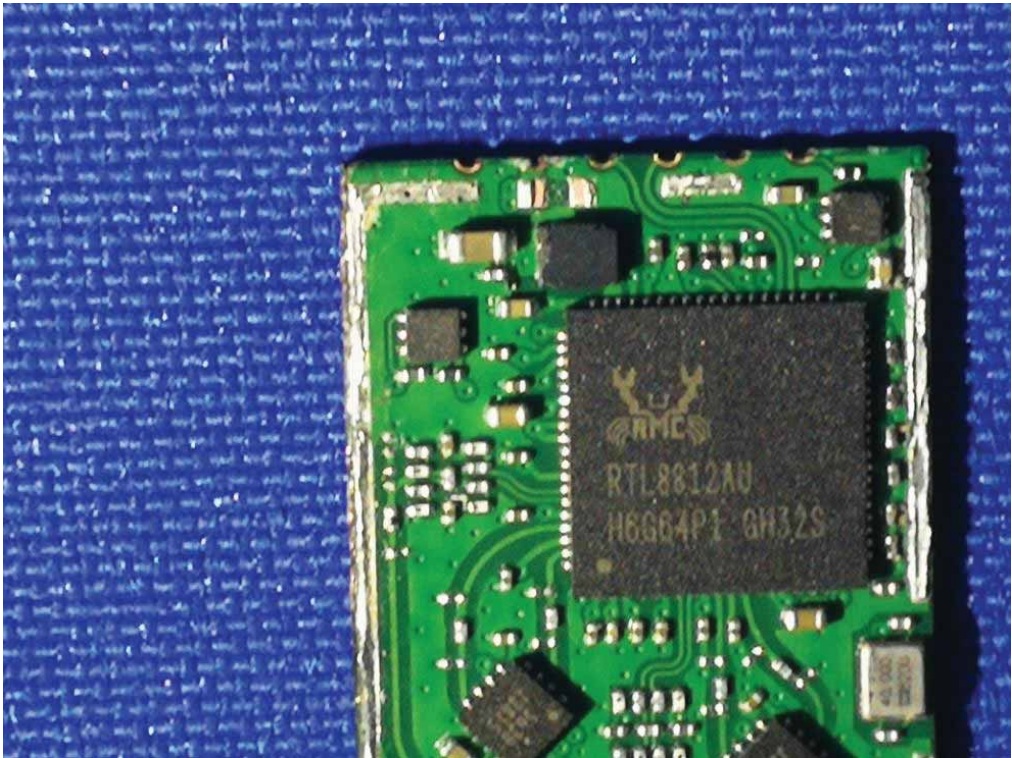
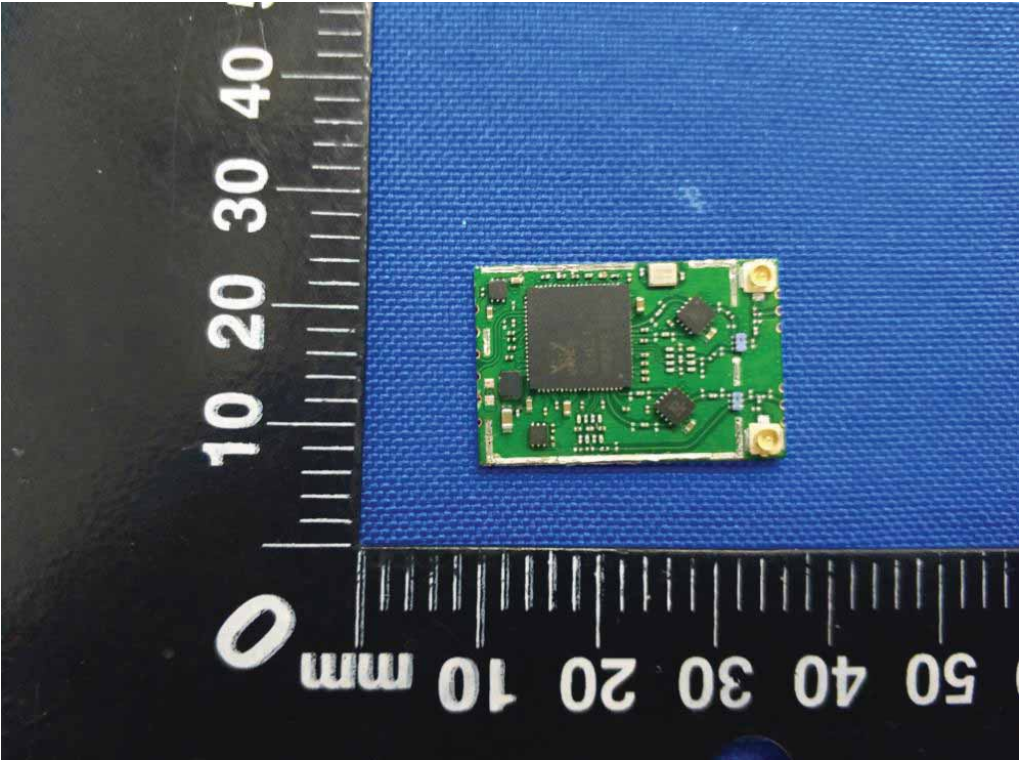


Conducted Emission



6. External and Internal Photos of the EUT





ANT1



ANT2



.....End of Report.....