

Test Mode:	802.11g	Test channel :	11
Agilent Spectrum Analyzer - Swept SA Display Line -21.58 dBm PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 100/100 06:20:59 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET M Display Annotation Title Graticule Off Display Line -21.58 dBm Off System Display Settings 10 dB/div Ref 20.00 dBm Mkr1 2.46137 GHz -1.577 dBm Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts) STATUS			
Channel 11			
Agilent Spectrum Analyzer - Swept SA Marker 1 9.141000 kHz PRF: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 83/100 06:22:41 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET M Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr---CF Mkr---Ref Lvl More 1 of 2 10 dB/div Ref 20.00 dBm Mkr1 9.141 kHz -49.564 dBm Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 134.8 ms (1001 pts) STATUS DC Coupled			
9KHz~150KHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 179.550000 kHz PRF: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 64/100 06:22:02 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET M Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr---CF Mkr---Ref Lvl More 1 of 2 10 dB/div Ref 20.00 dBm Mkr1 179.55 kHz -61.084 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) STATUS DC Coupled			
150KHz ~10MHz			

Test Mode:	802.11g	Test channel :	11
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Agilent Spectrum Analyzer - Swept SA

Marker 1 16.020000000 MHz

PRB: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 60/100

06:21:15 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 16.02 MHz

-61.434 dBm

Start 10.00 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 1.933 ms (1001 pts)

STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More 1 of 2

10MHz ~30MHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.670330000000 GHz

PRB: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 11/100

06:21:36 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 2.670 3 GHz

-56.729 dBm

Start 30 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 283.9 ms (1001 pts)

STATUS

Trace/Detector

Select Trace 1

Clear Write

Trace Average

Max Hold

Min Hold

View Blank Trace On

More 1 of 3

30MHz ~3GHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 24.450000000000 GHz

PRB: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 2/100

06:22:07 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 24.450 GHz

-47.276 dBm

Start 3.00 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.103 s (1001 pts)

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 :	01
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Agilent Spectrum Analyzer - Swept SA

Display Line -21.43 dBm

PRF: Fast
IF Gain: Low

Trig: Free Run
Atten: 30 dB

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

06:23:50 PM Jun 07, 2017

TRACE 1 3 4 5 6
TYPE M Continuous
DET P NORM

10 dB/div
Log

Ref 20.00 dBm

Mkr1 2.409 12 GHz
-1.427 dBm

Center 2.41200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)

STATUS

Display

Annotation▶

Title▶

Graticule
On Off

Display Line
-21.43 dBm
On Off

System
Display▶
Settings

Channel 01

Agilent Spectrum Analyzer - Swept SA

Marker 1 9.000000 kHz

PRF: Wide
IF Gain: Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr
Avg/Hold: 60/100

06:25:47 PM Jun 07, 2017

TRACE 1 3 4 5 6
TYPE M Continuous
DET P NORM

10 dB/div
Log

Ref 20.00 dBm

Mkr1 9.000 kHz
-50.025 dBm

Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz
Stop 150.00 kHz
Sweep 134.8 ms (1001 pts)

STATUS DC Coupled

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr---CF

Mkr---Ref Lvl

More
1 of 2

9KHz~150KHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 159.850000 kHz

PRF: Wide
IF Gain: Low

Trig: Free Run
Atten: 30 dB

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

06:26:50 PM Jun 07, 2017

TRACE 1 3 4 5 6
TYPE M Continuous
DET P NORM

10 dB/div
Log

Ref 20.00 dBm

Mkr1 159.85 kHz
-60.419 dBm

Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 10.000 MHz
Sweep 94.20 ms (1001 pts)

STATUS DC Coupled

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr---CF

Mkr---Ref Lvl

More
1 of 2

150KHz ~10MHz

Test Mode:	802.11n HT20	Test channel :	01								
Agilent Spectrum Analyzer - Swept SA Marker 1 22.400000000 MHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 56/100 06:24:12 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 22.40 MHz -61.691 dBm Start 10.00 MHz #Res BW 100 kHz #VBW 300 kHz Stop 30.00 MHz Sweep 1.933 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 10MHz ~30MHz <tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 2.697060000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 12/100 06:24:22 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 2.697 1 GHz -56.915 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 30MHz ~3GHz <tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 24.428000000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/100 06:24:32 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 24.428 GHz -47.913 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 3GHz~25GHz </td></tr> </td></tr>				Agilent Spectrum Analyzer - Swept SA Marker 1 2.697060000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 12/100 06:24:22 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 2.697 1 GHz -56.915 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 30MHz ~3GHz <tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 24.428000000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/100 06:24:32 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 24.428 GHz -47.913 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 3GHz~25GHz </td></tr>				Agilent Spectrum Analyzer - Swept SA Marker 1 24.428000000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/100 06:24:32 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 24.428 GHz -47.913 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 3GHz~25GHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 2.697060000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 12/100 06:24:22 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 2.697 1 GHz -56.915 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 30MHz ~3GHz <tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 24.428000000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/100 06:24:32 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 24.428 GHz -47.913 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 3GHz~25GHz </td></tr>				Agilent Spectrum Analyzer - Swept SA Marker 1 24.428000000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/100 06:24:32 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 24.428 GHz -47.913 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 3GHz~25GHz							
Agilent Spectrum Analyzer - Swept SA Marker 1 24.428000000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/100 06:24:32 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Ref 20.00 dBm Log Mkr1 24.428 GHz -47.913 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) 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 :	06
Agilent Spectrum Analyzer - Swept SA Display Line -21.05 dBm 10 dB/div Ref 20.00 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts) Mkr1 2.434 12 GHz -1.051 dBm Display Annotation Title Graticule Off Display Line -21.05 dBm Off System Display Settings			
Channel 06			
Agilent Spectrum Analyzer - Swept SA Marker 1 9.846000 kHz 10 dB/div Ref 20.00 dBm Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 134.8 ms (1001 pts) Mkr1 9.846 kHz -49.207 dBm Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
9KHz~150KHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz 10 dB/div Ref 20.00 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Mkr1 150.00 kHz -60.883 dBm Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
150KHz ~10MHz			

Test Mode:	802.11n HT20	Test channel :	06
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Agilent Spectrum Analyzer - Swept SA

Marker 1 11.700000000 MHz

PRN: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 63/100

06:27:56 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M Modulation

DET P Peak-to-Peak

10 dB/div

Ref 20.00 dBm

Mkr1 11.70 MHz

-61.139 dBm

Start 10.00 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 1.933 ms (1001 pts)

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More 1 of 2

10MHz ~30MHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.700300000000 GHz

PRN: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 11/100

06:28:06 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M Modulation

DET P Peak-to-Peak

10 dB/div

Ref 20.00 dBm

Mkr1 2.700 GHz

-57.663 dBm

Start 30 MHz

#Res BW 100 kHz

#VBW 300 kHz

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

Agilent Spectrum Analyzer - Swept SA

Marker 1 24.538000000000 GHz

PRN: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 1/100

06:28:15 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M Modulation

DET P Peak-to-Peak

10 dB/div

Ref 20.00 dBm

Mkr1 24.538 GHz

-45.702 dBm

Start 3.00 GHz

#Res BW 100 kHz

#VBW 300 kHz

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 :	11
Agilent Spectrum Analyzer - Swept SA Display Line -21.32 dBm PRN: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: >100/100 06:30:23 PM Jun 07, 2017 TRACE 1 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 2.459 12 GHz -1.322 dBm 1 Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) STATUS Display Annotation▶ Title▶ Graticule On Off Display Line -21.32 dBm On Off System Display▶ Settings			
Channel 11			
Agilent Spectrum Analyzer - Swept SA Marker 1 9.000000 kHz PRN: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 71/100 06:31:48 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 9.000 kHz -49.410 dBm 1 Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Stop 150.00 kHz Sweep 134.8 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 DC Coupled			
9KHz~150KHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRN: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 91/100 06:32:13 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 150.00 kHz -60.687 dBm 1 Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Stop 10.000 MHz Sweep 94.20 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 DC Coupled			
150KHz ~10MHz			

Test Mode:	802.11n HT20	Test channel :	11
Agilent Spectrum Analyzer - Swept SA Marker 1 10.140000000 MHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 82/100 06:30:43 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 10.14 MHz -61.831 dBm Start 10.00 MHz #Res BW 100 kHz #VBW 300 kHz Stop 30.00 MHz Sweep 1.933 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 10MHz ~30MHz Agilent Spectrum Analyzer - Swept SA Marker 1 2.619840000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 23/100 06:30:50 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 2.6198 GHz -54.313 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 30MHz ~3GHz Agilent Spectrum Analyzer - Swept SA Marker 1 24.516000000000 GHz PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 2/100 06:31:13 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 24.516 GHz -46.894 dBm Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) 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 HT40	Test channel :	03
Agilent Spectrum Analyzer - Swept SA Display Line -24.04 dBm PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB SENSE INT ALN OFF 06:36:20 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M VAWWVWVW DET P NLSLSLSLS 10 dB/div Ref 20.00 dBm Mkr1 2.425 54 GHz -4.036 dBm Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.800 ms (1001 pts) Span 60.00 MHz STATUS Display Annotation▶ Title▶ Graticule On Off Display Line -24.04 dBm On Off System Display▶ Settings			
Channel 03			
Agilent Spectrum Analyzer - Swept SA Marker 1 9.000000 kHz PRF: Wide IF Gain: Low Trig: Free Run Atten: 30 dB SENSE INT ALN OFF 06:37:24 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M VAWWVWVW DET P NLSLSLSLS 10 dB/div Ref 20.00 dBm Mkr1 9.000 kHz -49.470 dBm Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 134.8 ms (1001 pts) Stop 150.00 kHz STATUS DC Coupled Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr---CF Mkr---Ref Lvl More 1 of 2			
9KHz~150KHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRF: Wide IF Gain: Low Trig: Free Run Atten: 30 dB SENSE INT ALN OFF 06:38:51 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M VAWWVWVW DET P NLSLSLSLS 10 dB/div Ref 20.00 dBm Mkr1 150.00 kHz -60.943 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Stop 10.000 MHz STATUS DC Coupled Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr---CF Mkr---Ref Lvl More 1 of 2			
150KHz ~10MHz			

Test Mode:	802.11n HT40	Test channel :	03
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Agilent Spectrum Analyzer - Swept SA

Marker 1 10.440000000 MHz

PRB: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg/Hold: 100/100

06:36:30 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 10.44 MHz

-61.574 dBm

Start 10.00 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 30.00 MHz

Sweep 1.933 ms (1001 pts)

STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More 1 of 2

10MHz ~30MHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.655480000000 GHz

PRB: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg/Hold: 10/100

06:36:40 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 2.655 5 GHz

-58.115 dBm

Start 30 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 3.000 GHz

Sweep 283.9 ms (1001 pts)

STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More 1 of 2

30MHz ~3GHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 24.494000000000 GHz

PRB: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg/Hold: 2/100

06:36:52 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 24.484 GHz

-47.142 dBm

Start 3.00 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 25.00 GHz

Sweep 2.103 s (1001 pts)

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 HT40	Test channel :	06																				
Agilent Spectrum Analyzer - Swept SA Display Line -25.88 dBm PRO: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: >100/100 06:41:15 PM Jun 07, 2017 TRACE 1 1 2 3 4 5 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 2.439 10 GHz -5.880 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.800 ms (1001 pts) Display Annotation▶ Title▶ Graticule On Off Display Line -25.88 dBm On Off System Display▶ Settings <tr><td colspan="4">Channel 06</td></tr><tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 11.820000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 50/100 06:42:37 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 11.820 kHz -49.771 dBm Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 134.8 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">9KHz~150KHz</td></tr><tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 92/100 06:43:05 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 150.00 kHz -61.474 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">150KHz ~10MHz</td></tr> </td></tr> </td></tr>				Channel 06				Agilent Spectrum Analyzer - Swept SA Marker 1 11.820000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 50/100 06:42:37 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 11.820 kHz -49.771 dBm Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 134.8 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">9KHz~150KHz</td></tr><tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 92/100 06:43:05 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 150.00 kHz -61.474 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">150KHz ~10MHz</td></tr> </td></tr>				9KHz~150KHz				Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 92/100 06:43:05 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 150.00 kHz -61.474 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">150KHz ~10MHz</td></tr>				150KHz ~10MHz			
Channel 06																							
Agilent Spectrum Analyzer - Swept SA Marker 1 11.820000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 50/100 06:42:37 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 11.820 kHz -49.771 dBm Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 134.8 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">9KHz~150KHz</td></tr><tr><td colspan="4"> Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 92/100 06:43:05 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 150.00 kHz -61.474 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">150KHz ~10MHz</td></tr> </td></tr>				9KHz~150KHz				Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 92/100 06:43:05 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 150.00 kHz -61.474 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">150KHz ~10MHz</td></tr>				150KHz ~10MHz											
9KHz~150KHz																							
Agilent Spectrum Analyzer - Swept SA Marker 1 150.000000 kHz PRO: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 92/100 06:43:05 PM Jun 07, 2017 TRACE 1 2 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 150.00 kHz -61.474 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2 <tr><td colspan="4">150KHz ~10MHz</td></tr>				150KHz ~10MHz																			
150KHz ~10MHz																							

Test Mode:	802.11n HT40	Test channel :	06
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Agilent Spectrum Analyzer - Swept SA

Marker 1 13.860000000 MHz

PRF: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 100/100

06:41:46 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 13.86 MHz

-61.958 dBm

Start 10.00 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 30.00 MHz

Sweep 1.933 ms (1001 pts)

STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More 1 of 2

10MHz ~30MHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.661420000000 GHz

PRF: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 11/100

06:41:50 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 2.661 4 GHz

-57.983 dBm

Start 30 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 3.000 GHz

Sweep 283.9 ms (1001 pts)

STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr--CF

Mkr--Ref Lvl

More 1 of 2

30MHz ~3GHz

Agilent Spectrum Analyzer - Swept SA

Marker 1 24.494000000000 GHz

PRF: Fast
IF Gain: Low

Trig: Free Run

Atten: 30 dB

Avg Type: Log-Pwr

Avg Hold: 31/100

06:42:00 PM Jun 07, 2017

TRACE 1 3 4 5 6

TYPE M

DET P

10 dB/div

Ref 20.00 dBm

Log

Mkr1 24.494 GHz

-46.896 dBm

Start 3.00 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 25.00 GHz

Sweep 2.103 s (1001 pts)

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 HT40	Test channel :	09
Agilent Spectrum Analyzer - Swept SA Display Line -26.41 dBm PRF: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 100/100 06:46:03 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 2.444 26 GHz -6.407 dBm Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Span 60.00 MHz Sweep 5.800 ms (1001 pts) STATUS Display Annotation▶ Title▶ Graticule On Off Display Line -26.41 dBm On Off System Display▶ Settings			
Channel 09			
Agilent Spectrum Analyzer - Swept SA Marker 1 9.000000 kHz PRF: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 80/100 06:48:17 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 9.000 kHz -49.790 dBm Start 9.00 kHz #Res BW 1.0 kHz #VBW 3.0 kHz Sweep 134.8 ms (1001 pts) STATUS DC Coupled Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr---CF Mkr---Ref Lvl More 1 of 2			
9KHz~150KHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 169.700000 kHz PRF: Wide IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 75/100 06:48:41 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 169.70 kHz -61.312 dBm Start 150 kHz #Res BW 10 kHz #VBW 30 kHz Sweep 94.20 ms (1001 pts) STATUS DC Coupled Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr---CF Mkr---Ref Lvl More 1 of 2			
150KHz ~10MHz			

Test Mode:	802.11n HT40	Test channel :	09
Agilent Spectrum Analyzer - Swept SA Marker 1 18.680000000 MHz PRB: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 8/100 06:46:21 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 18.68 MHz -61.611 dBm 1 Start 10.00 MHz #Res BW 100 kHz #VBW 300 kHz Stop 30.00 MHz Sweep 1.933 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
10MHz ~30MHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 2.673300000000 GHz PRB: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 16/100 06:46:32 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 2.673 3 GHz -55.959 dBm 1 Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 3.000 GHz Sweep 283.9 ms (1001 pts) STATUS Peak Search Next Peak Next Pk Right Next Pk Left Marker Delta Mkr--CF Mkr--Ref Lvl More 1 of 2			
30MHz ~3GHz			
Agilent Spectrum Analyzer - Swept SA Marker 1 24.494000000000 GHz PRB: Fast IF Gain: Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 2/100 06:46:43 PM Jun 07, 2017 TRACE 1 3 4 5 6 TYPE M DET P 10 dB/div Log Ref 20.00 dBm Mkr1 24.484 GHz -47.551 dBm 1 Start 3.00 GHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.103 s (1001 pts) STATUS 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

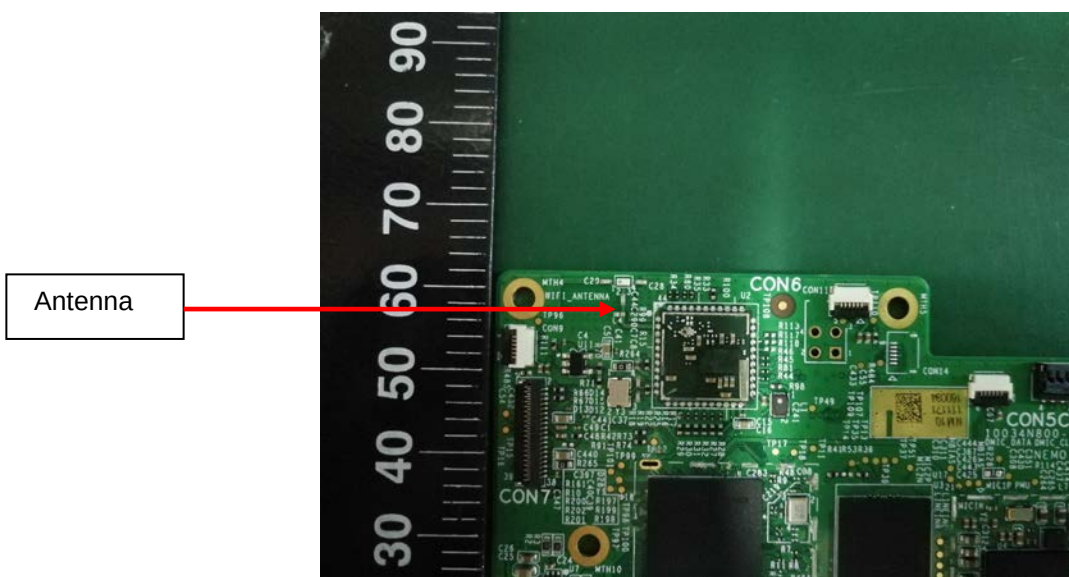
Standard Applicable

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.

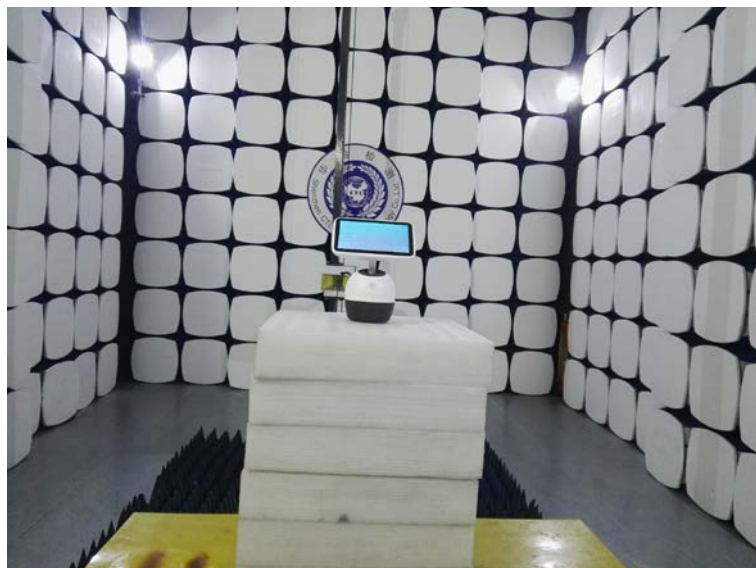
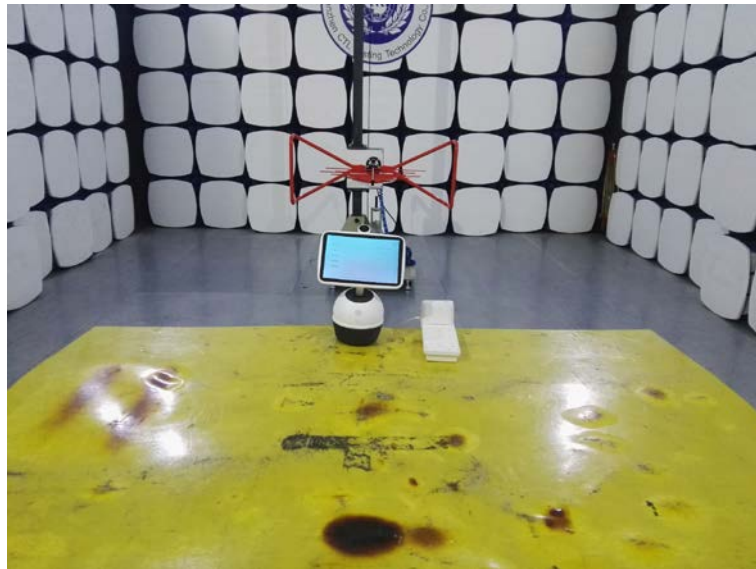
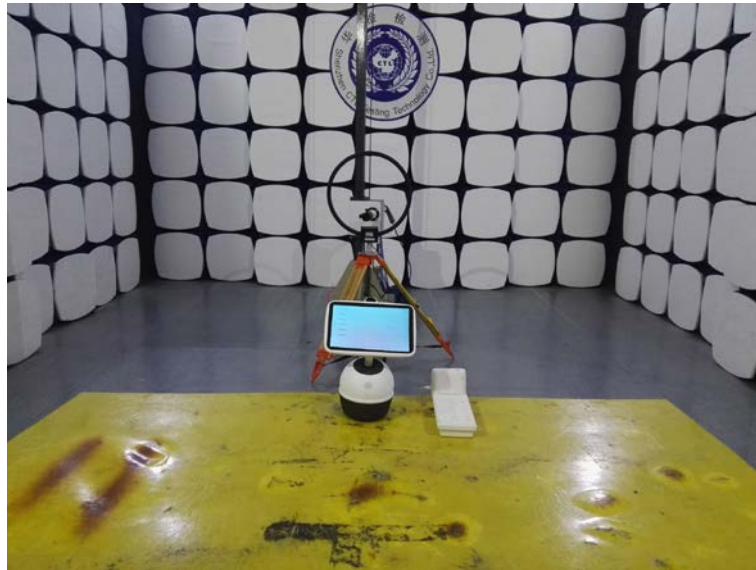
And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Information

The antenna is layout on PCB board, The directional gains of antenna used for transmitting is -0.72dBi.



5. Test Setup Photos of the EUT





6. External and Internal Photos of the EUT

Reference to the test report No. GTSR1705270-01.

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