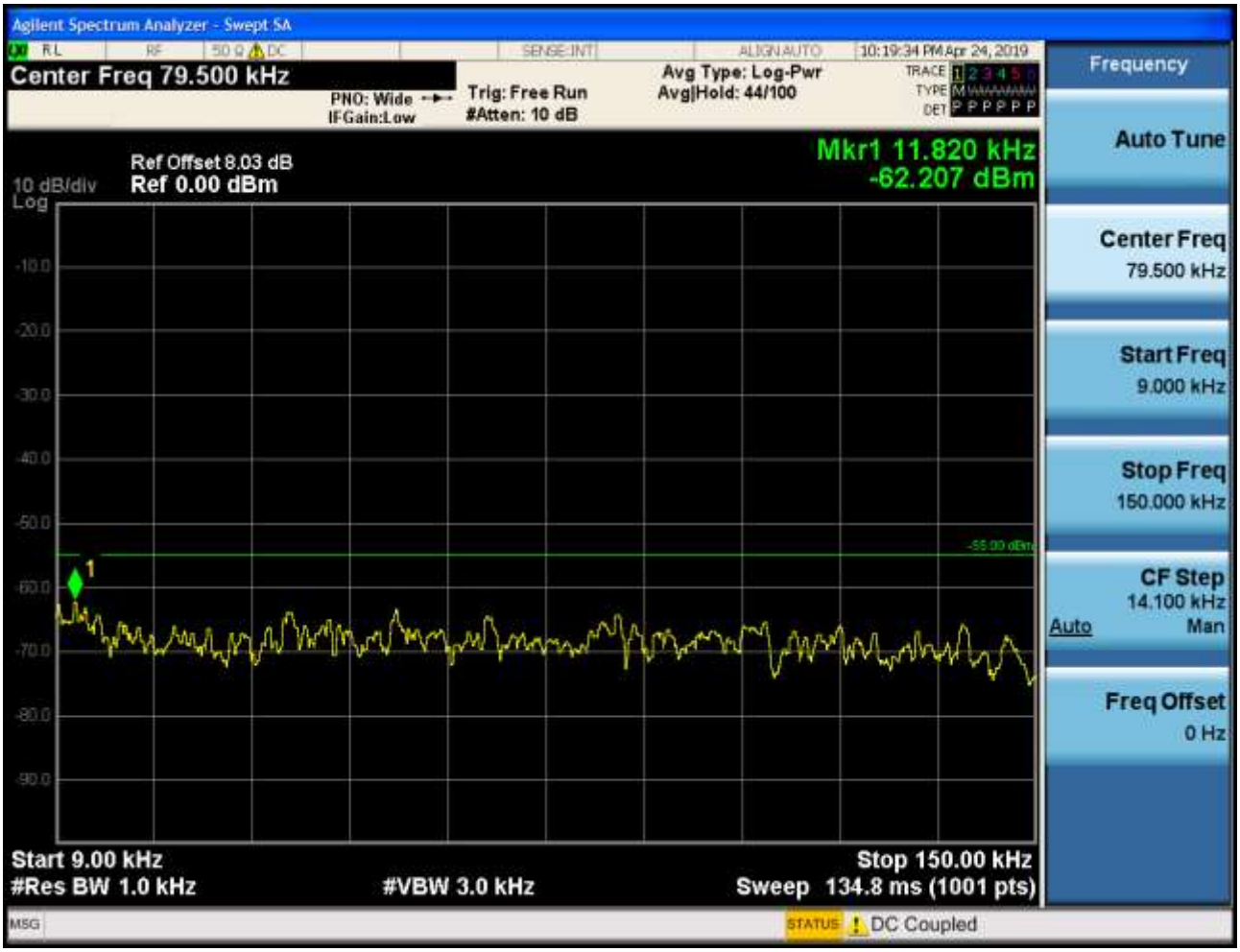
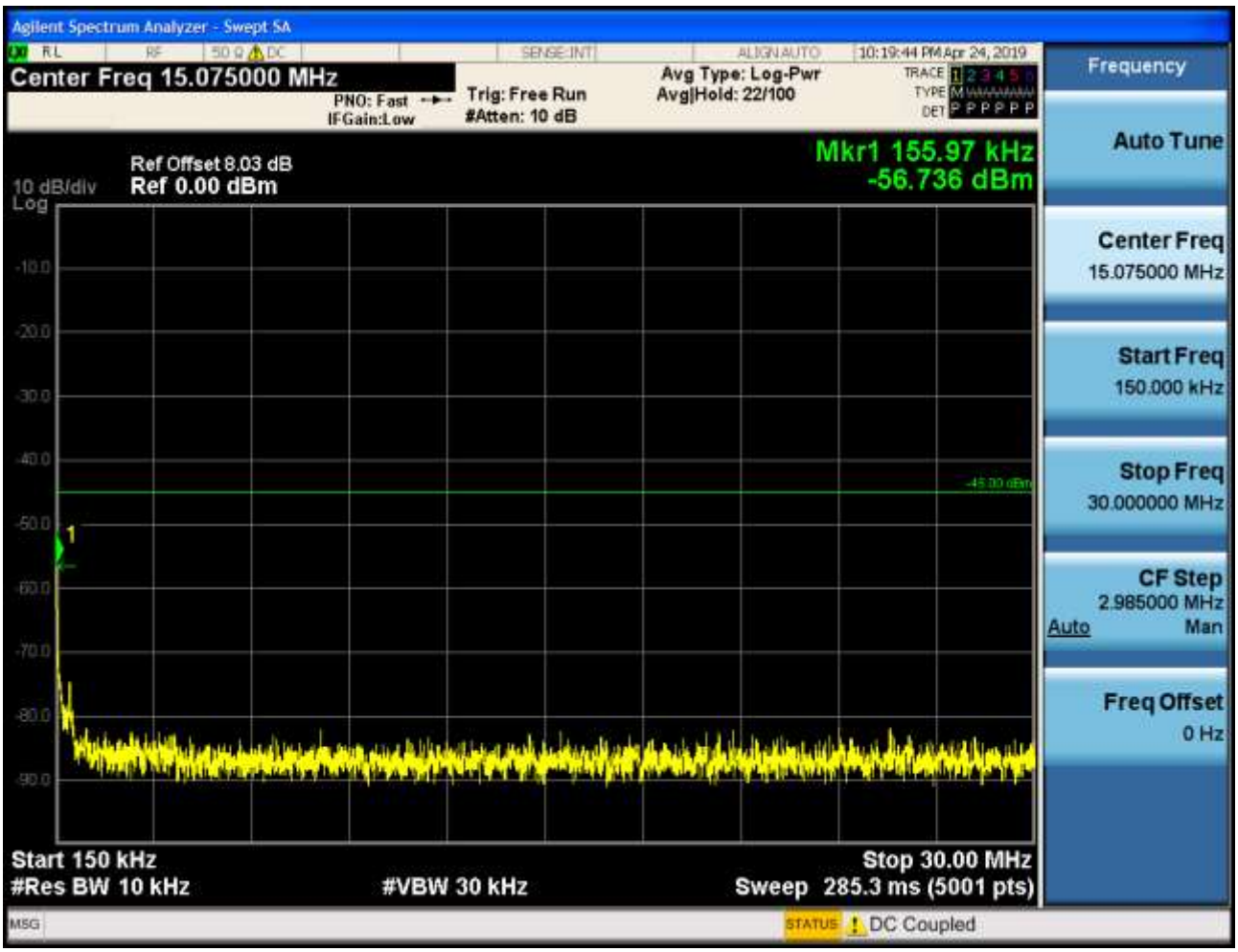
Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:21:00 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.02 dB
10 dB/div
Log
Ref 24.02 dBm
Mkr1 25.420 2 GHz
-33.563 dBm
14.0
4.02
-5.98
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.1.2.3 Test Channel = HCH

##### 6.2.1.1.2.3.1 Test RB = RB1#0



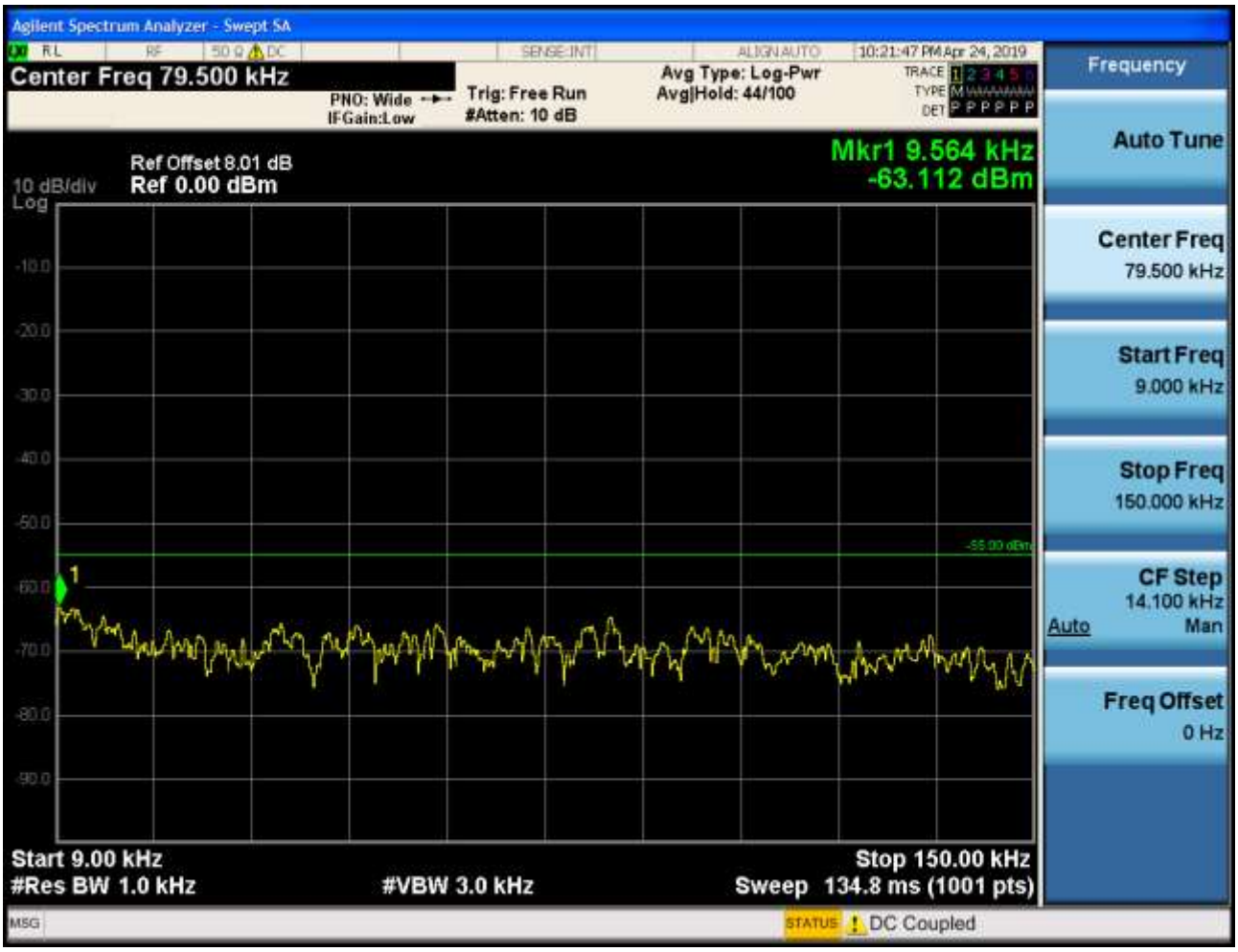

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:19:44 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 155.97 kHz
-56.736 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
10:19:55 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 24.03 dBm
Mkr1 25.377 8 GHz
-33.485 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.1.3 Test Bandwidth = 15

##### 6.2.1.1.3.1 Test Channel = LCH

###### 6.2.1.1.3.1.1 Test RB = RB1#0

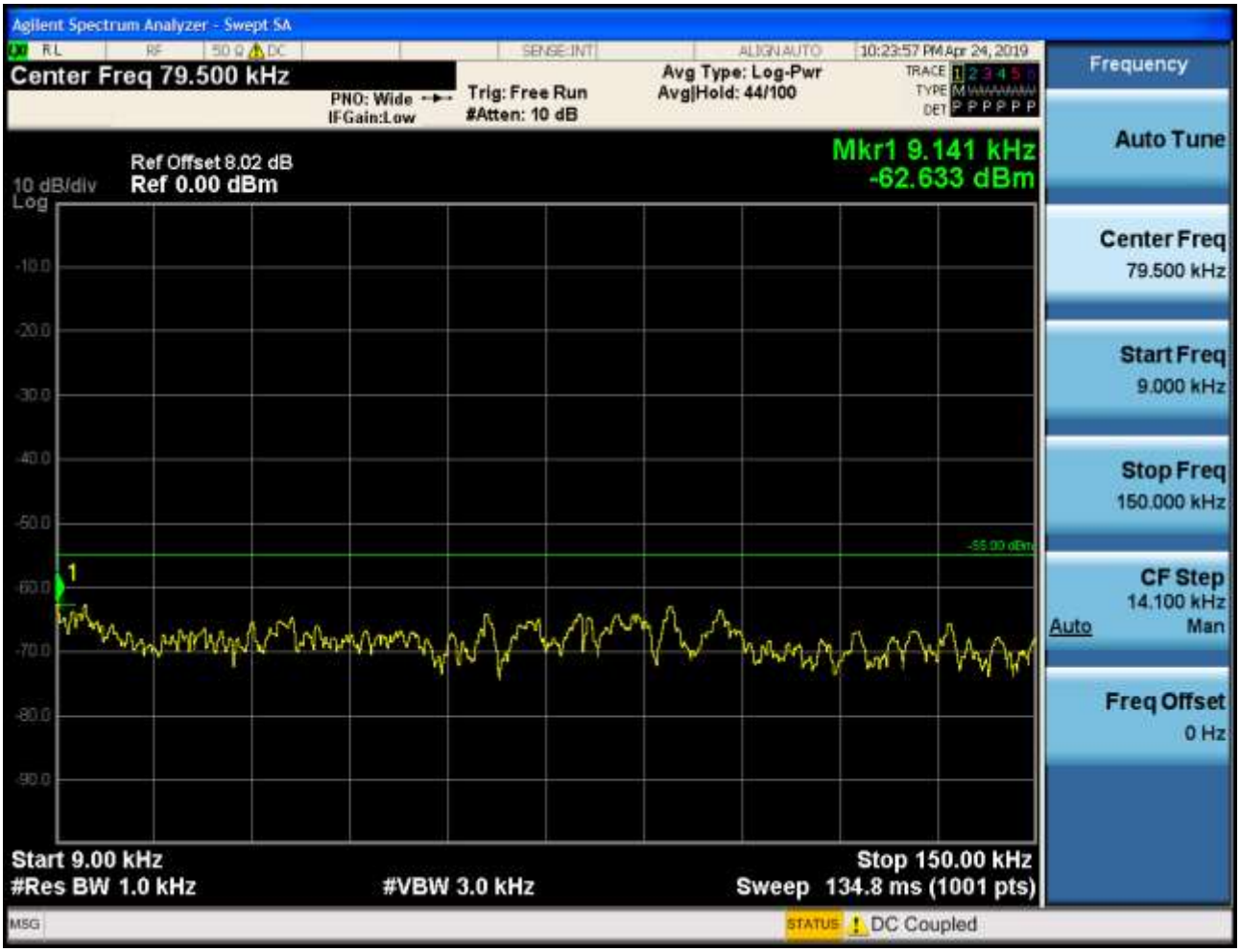


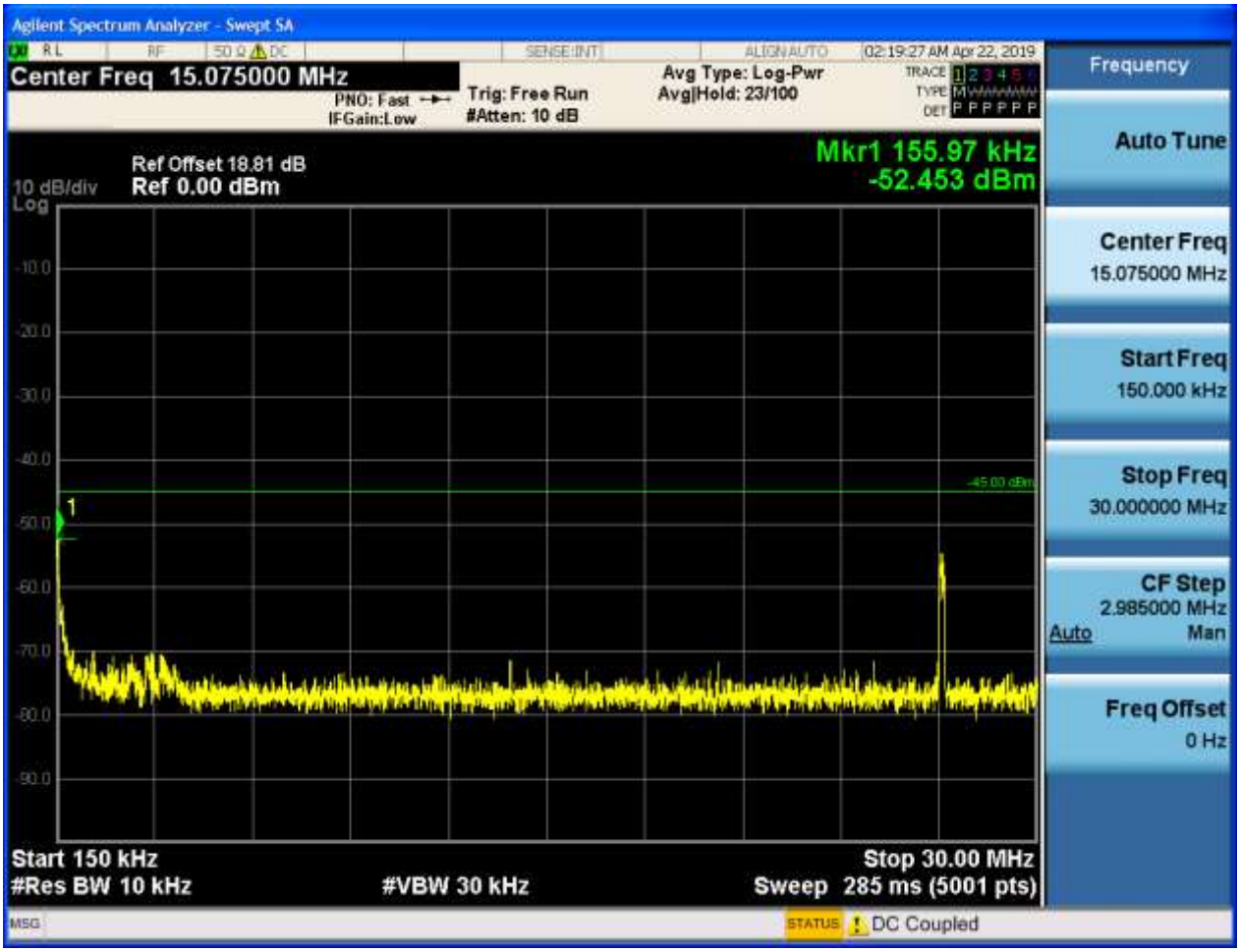
Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:21:56 PM Apr 24, 2019
Ref Offset 8.01 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 150.00 kHz
-60.264 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
10:22:07 PM Apr 24, 2019
Ref Offset 8.01 dB
10 dB/div
Log
Ref 24.01 dBm
Mkr1 25.356 9 GHz
-33.047 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.1.3.2 Test Channel = MCH

##### 6.2.1.1.3.2.1 Test RB = RB1#0

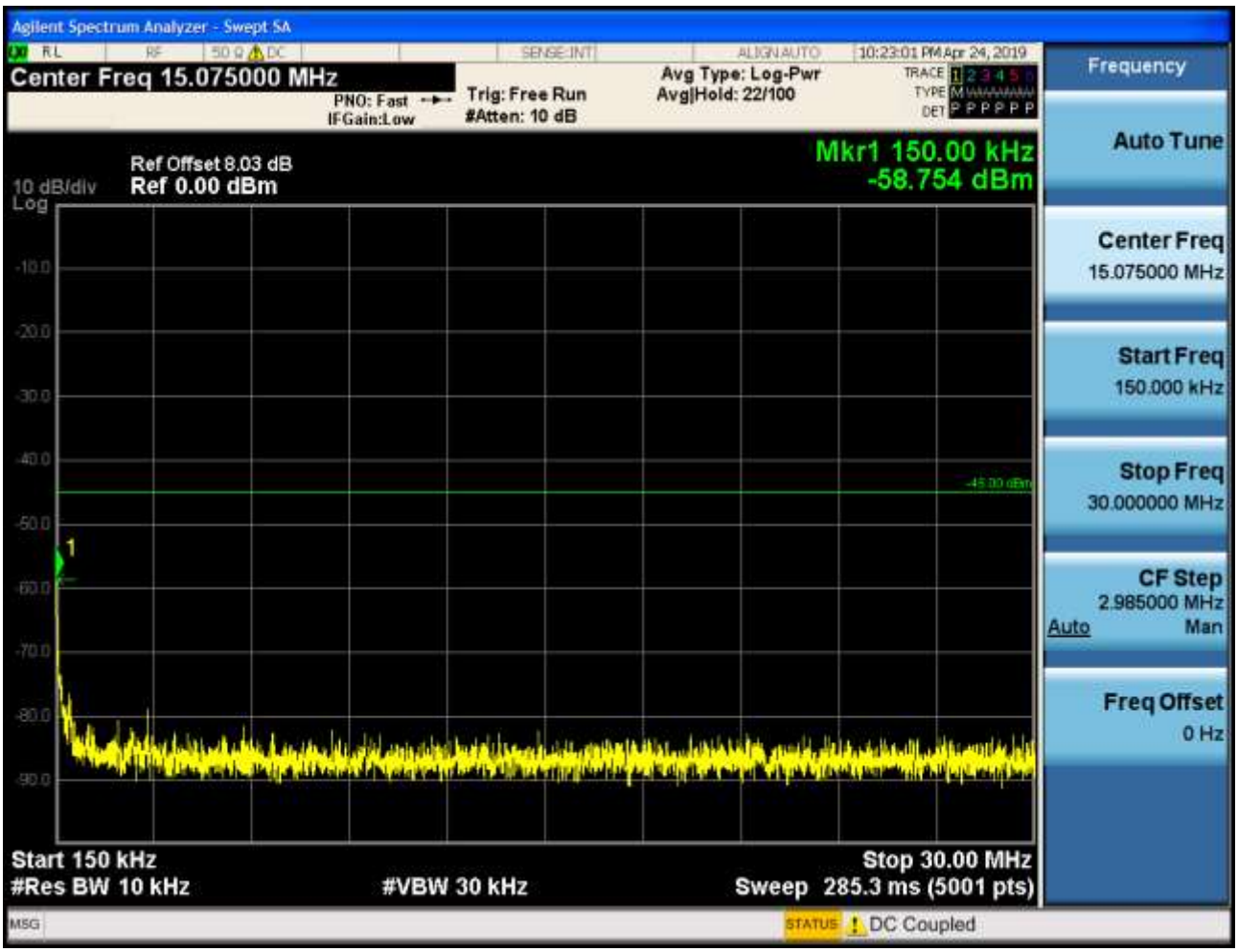



Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
02:19:27 AM Apr 22, 2019
Ref Offset 18.81 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 155.97 kHz
-52.453 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:24:18 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.02 dB
10 dB/div
Log
Ref 24.02 dBm
Mkr1 25.383 8 GHz
-33.157 dBm
14.0
4.02
-5.98
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.1.3.3 Test Channel = HCH

##### 6.2.1.1.3.3.1 Test RB = RB1#0

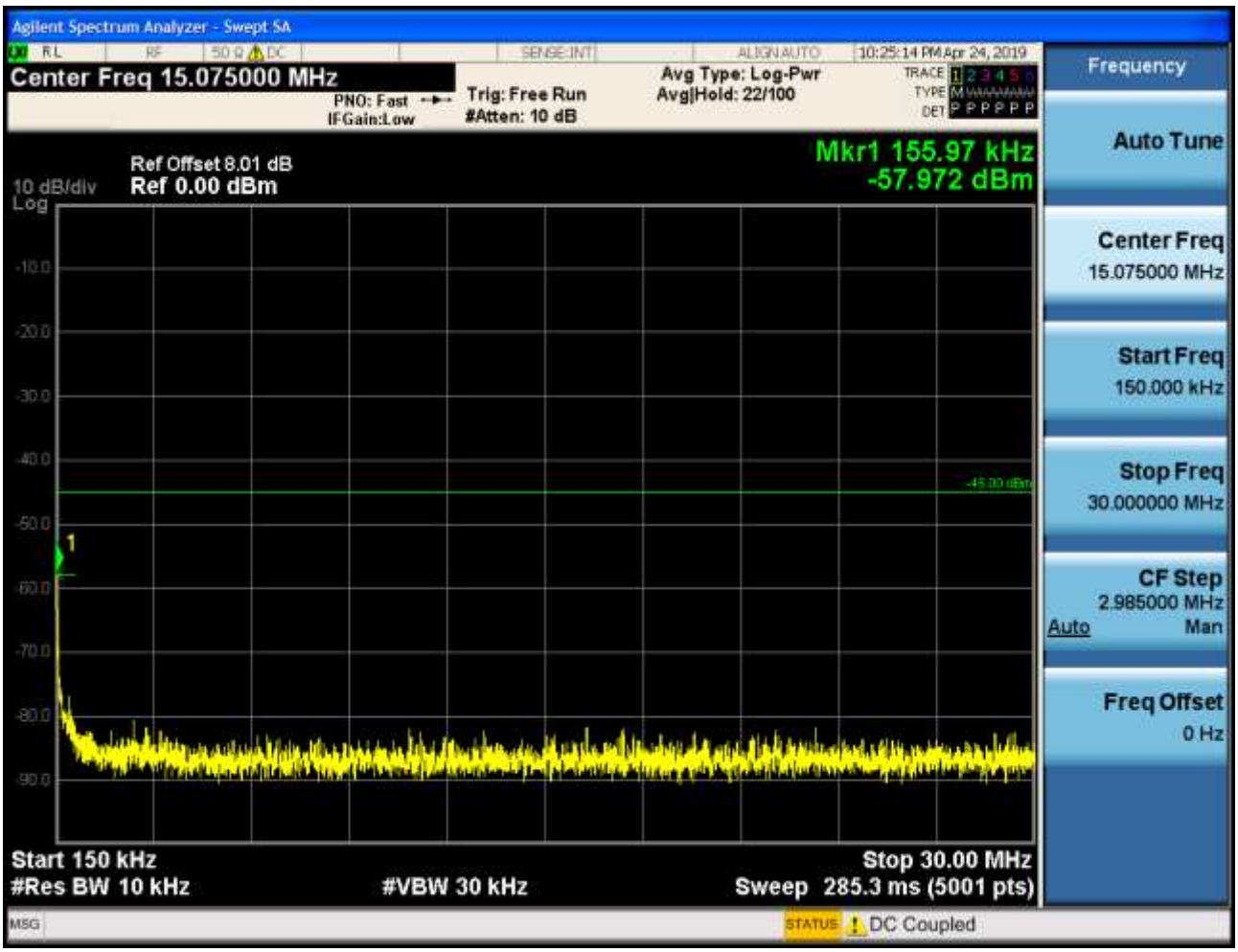

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:23:01 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 150.00 kHz
-58.754 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
10:23:12 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Ref 24.03 dBm
Log
Mkr1 25.512 6 GHz
-33.510 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.1.4 Test Bandwidth = 20

##### 6.2.1.1.4.1 Test Channel = LCH

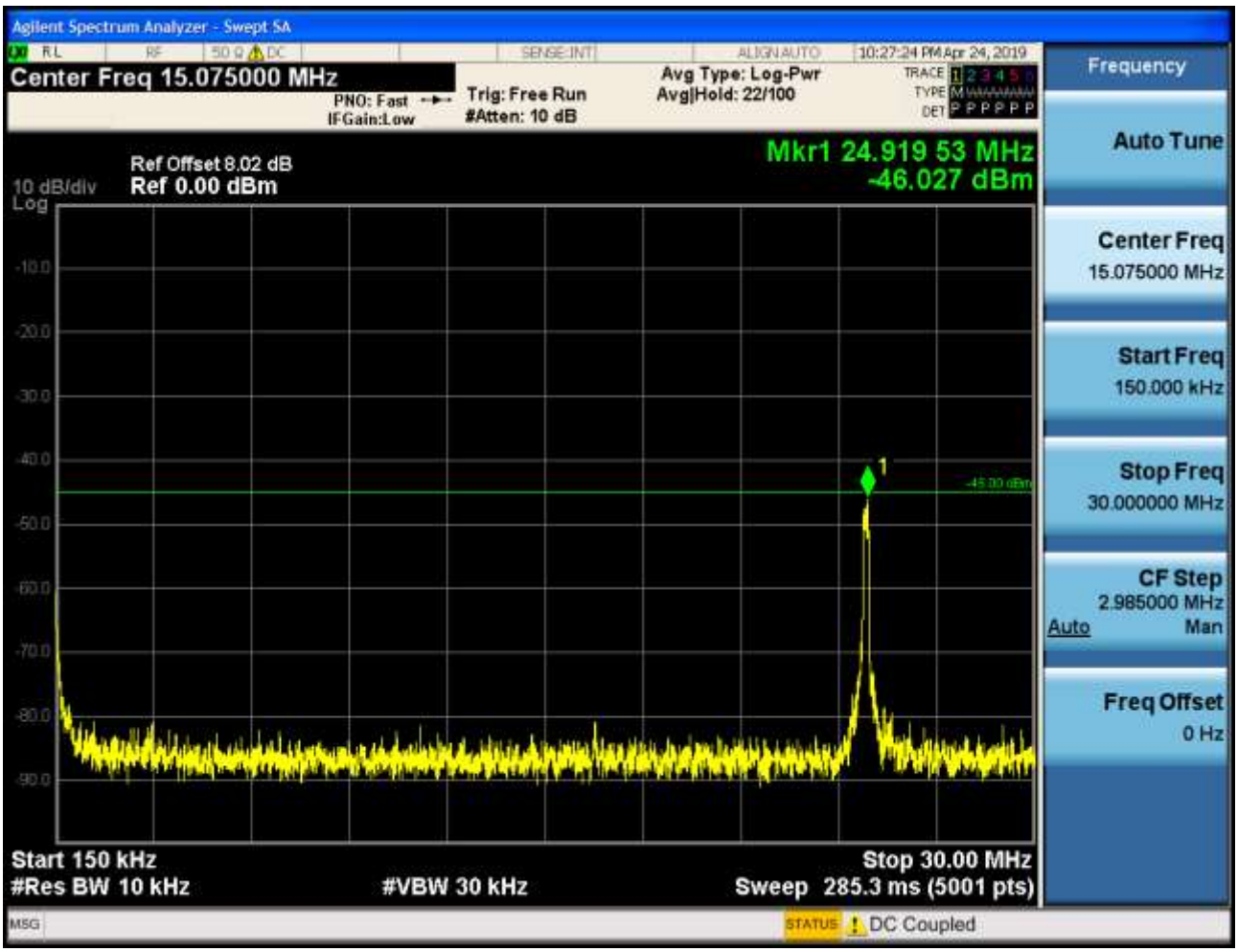
###### 6.2.1.1.4.1.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:25:14 PM Apr 24, 2019
Ref Offset 8.01 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 155.97 kHz
-57.972 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
10:25:26 PM Apr 24, 2019
Ref Offset 8.01 dB
10 dB/div
Log
Ref 24.01 dBm
Mkr1 25.453 3 GHz
-33.346 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.1.4.2 Test Channel = MCH

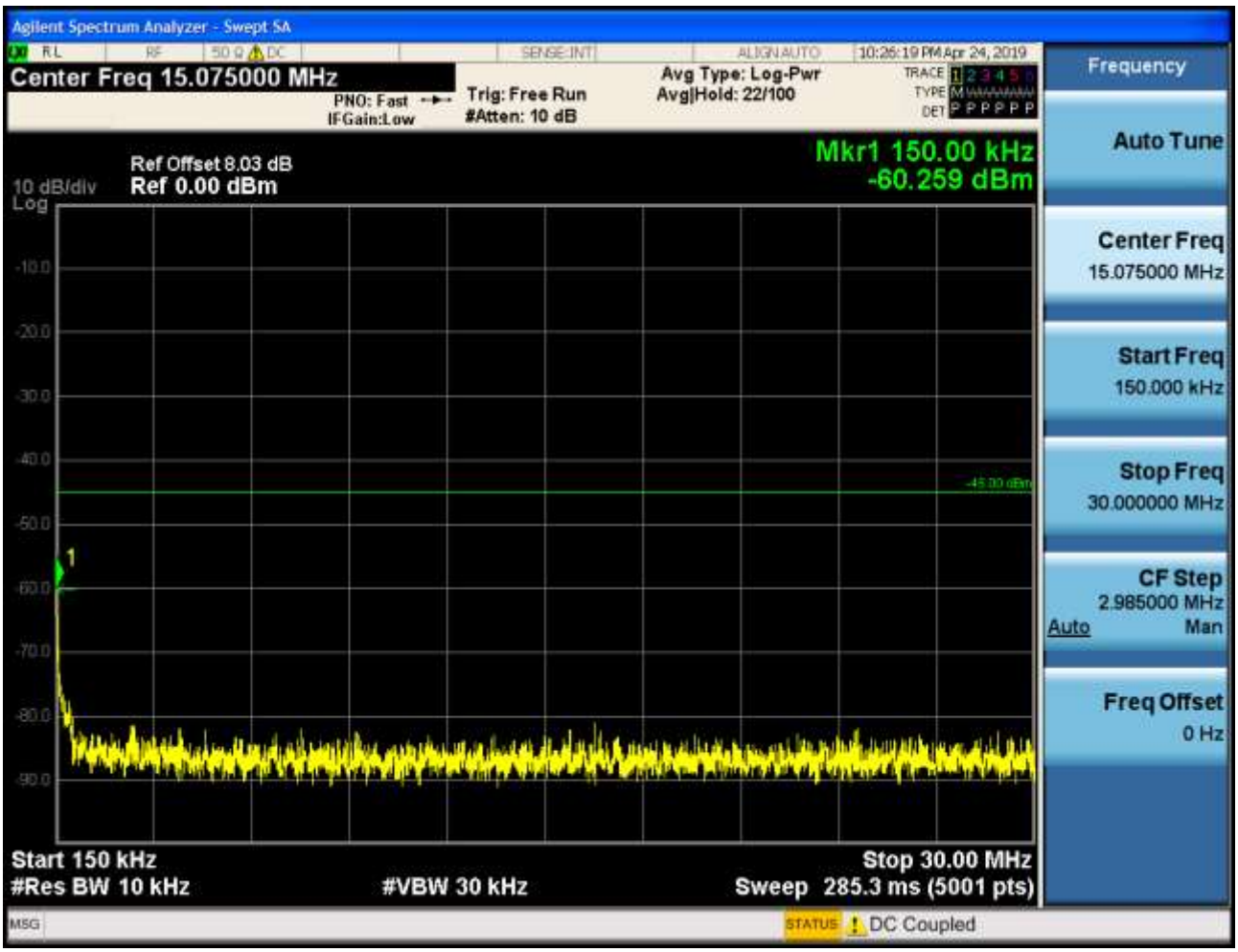
##### 6.2.1.1.4.2.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
10:27:24 PM Apr 24, 2019
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.02 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 24.919 53 MHz
-46.027 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
10:27:36 PM Apr 24, 2019
Ref Offset 8.02 dB
10 dB/div
Log
Ref 24.02 dBm
Mkr1 26.085 7 GHz
-32.800 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.1.4.3 Test Channel = HCH

##### 6.2.1.1.4.3.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:26:19 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 150.00 kHz
-60.259 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:26:31 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 8.03 dB
10 dB/div
Log
Ref 24.03 dBm
Mkr1 25.431 0 GHz
-33.659 dBm
14.0
4.03
-5.97
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.2 Test Mode = LTE/TM2

##### 6.2.1.2.1 Test Bandwidth = 5

###### 6.2.1.2.1.1 Test Channel = LCH

####### 6.2.1.2.1.1.1 Test RB = RB1#0

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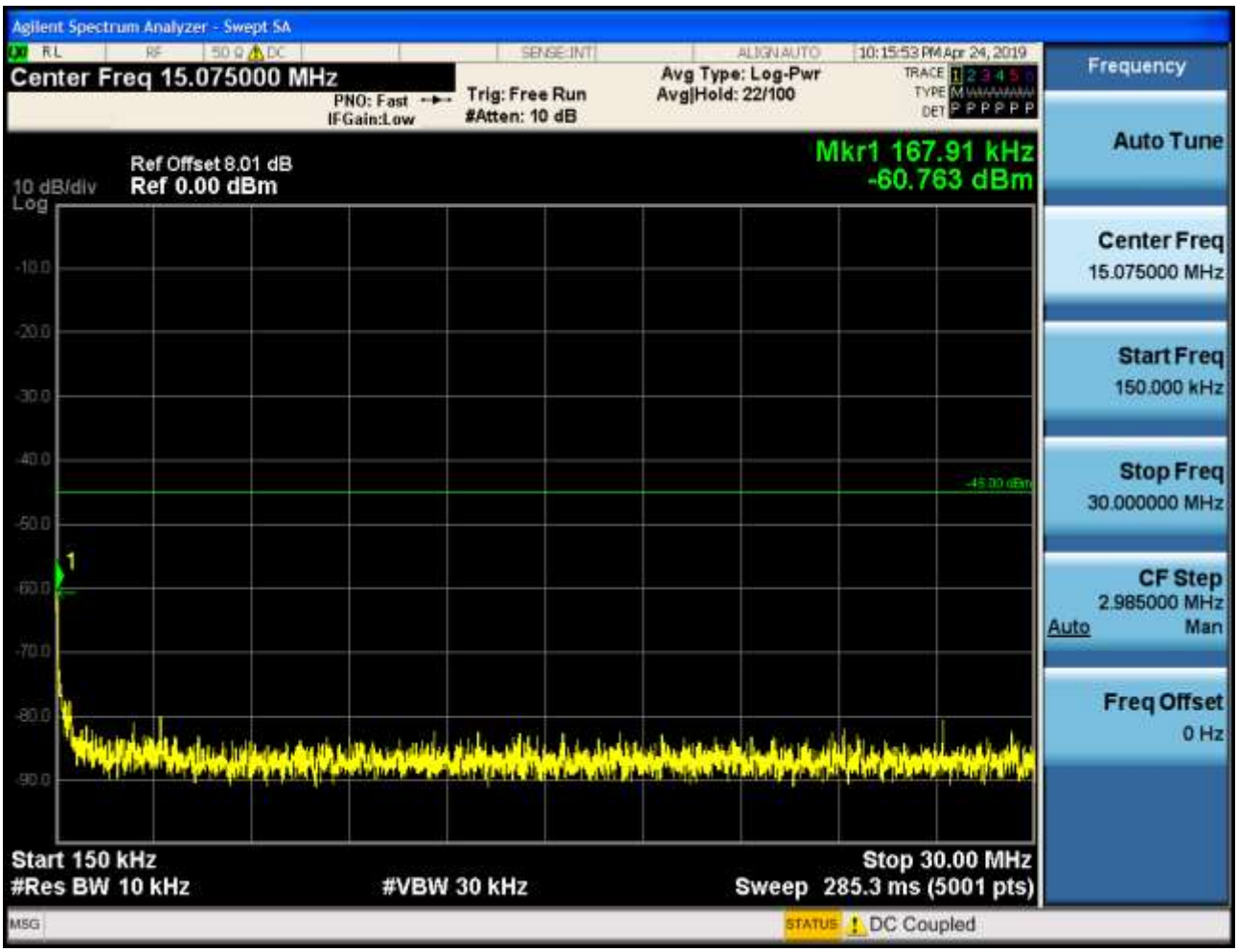
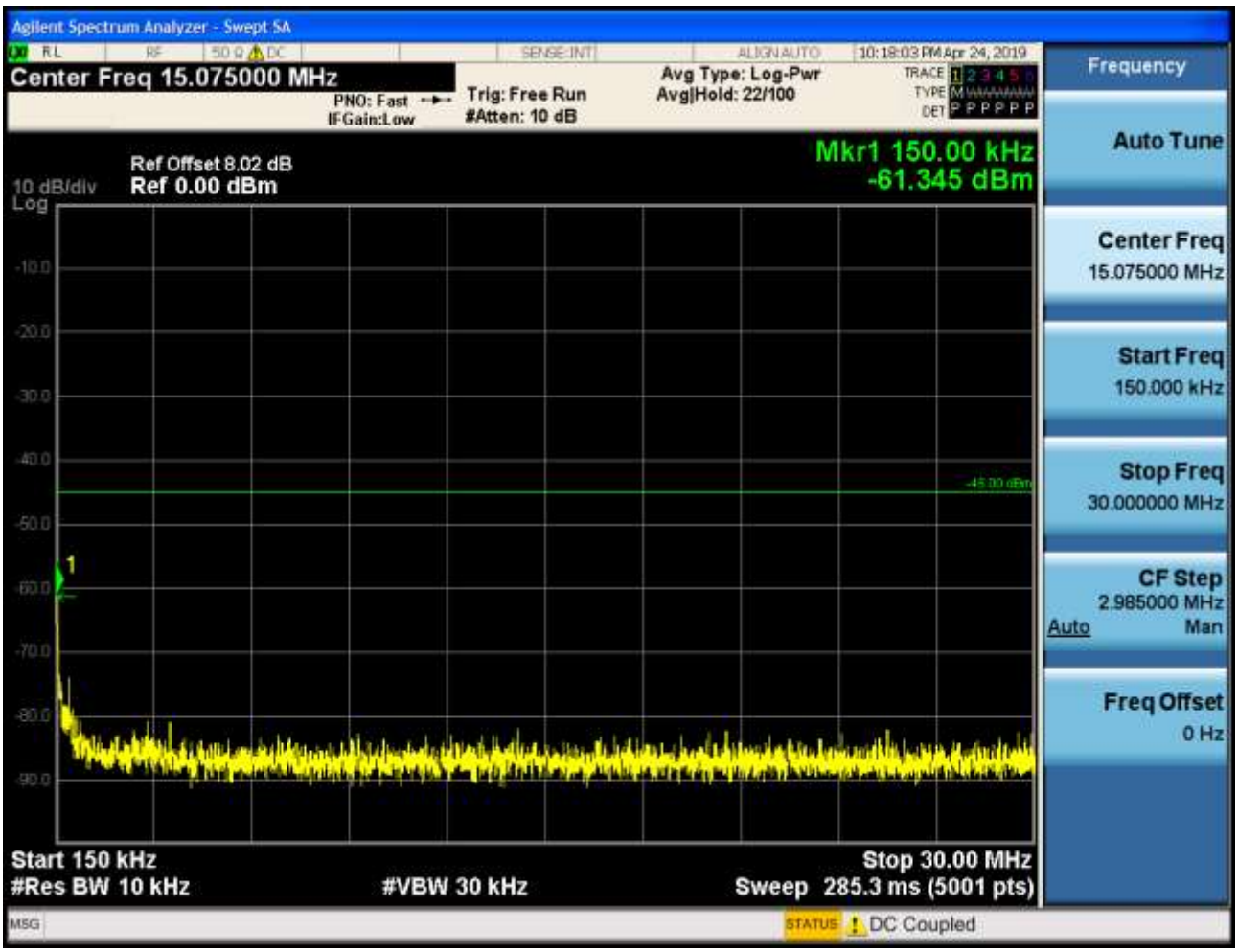

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
10:15:53 PM Apr 24, 2019
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.01 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 167.91 kHz
-60.763 dBm
-10.0
-20.0
-30.0
-40.0
-45.00 dBm
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 35/100
10:16:04 PM Apr 24, 2019
Ref Offset 8.01 dB
10 dB/div
Log
Ref 24.01 dBm
Mkr1 25.325 2 GHz
-32.513 dBm
-25.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.2.1.2 Test Channel = MCH

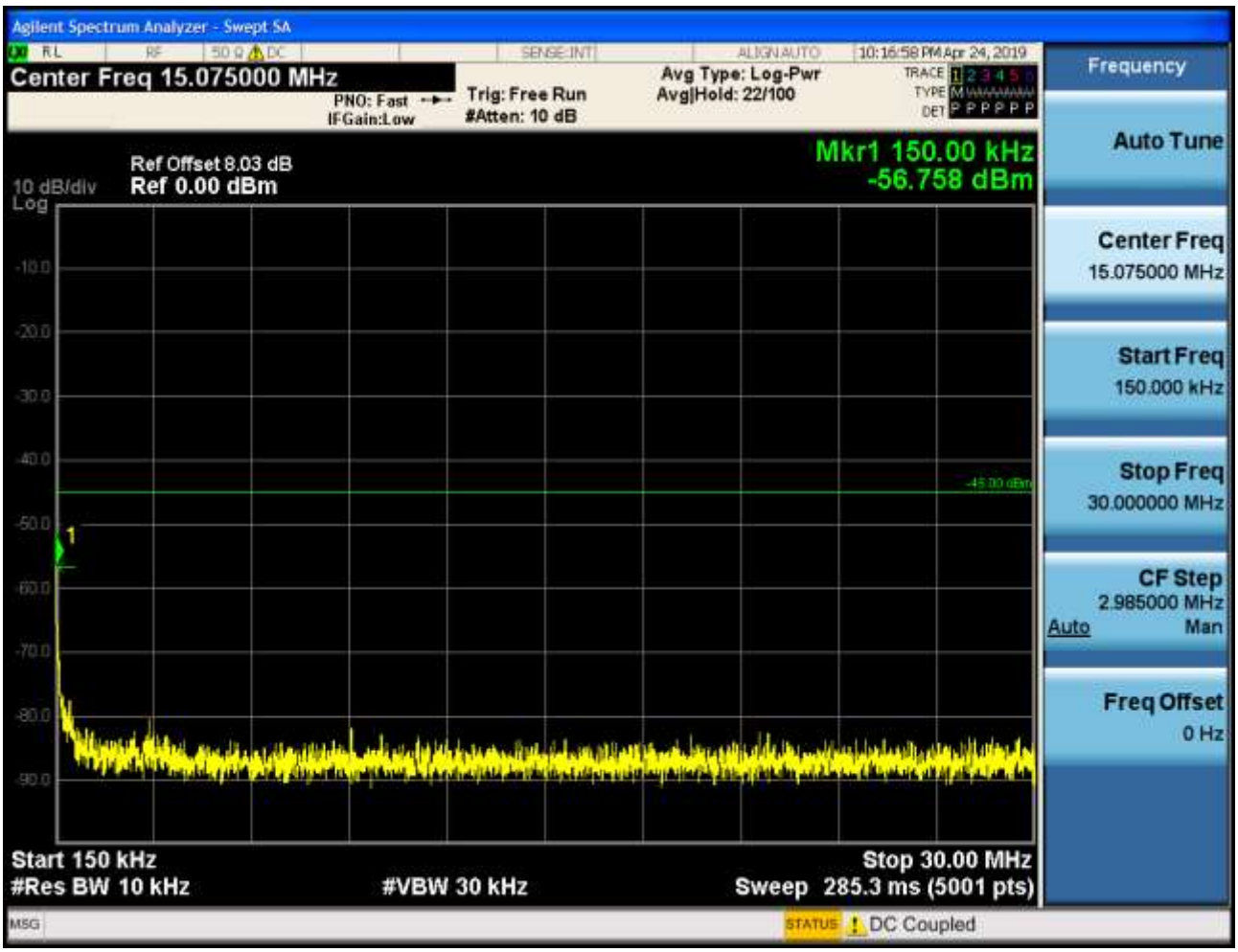
##### 6.2.1.2.1.2.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:18:03 PM Apr 24, 2019
Ref Offset 8.02 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 150.00 kHz
-61.345 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
10:18:14 PM Apr 24, 2019
Ref Offset 8.02 dB
10 dB/div
Log
Ref 24.02 dBm
Mkr1 25.925 9 GHz
-32.855 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.2.1.3 Test Channel = HCH

##### 6.2.1.2.1.3.1 Test RB = RB1#0





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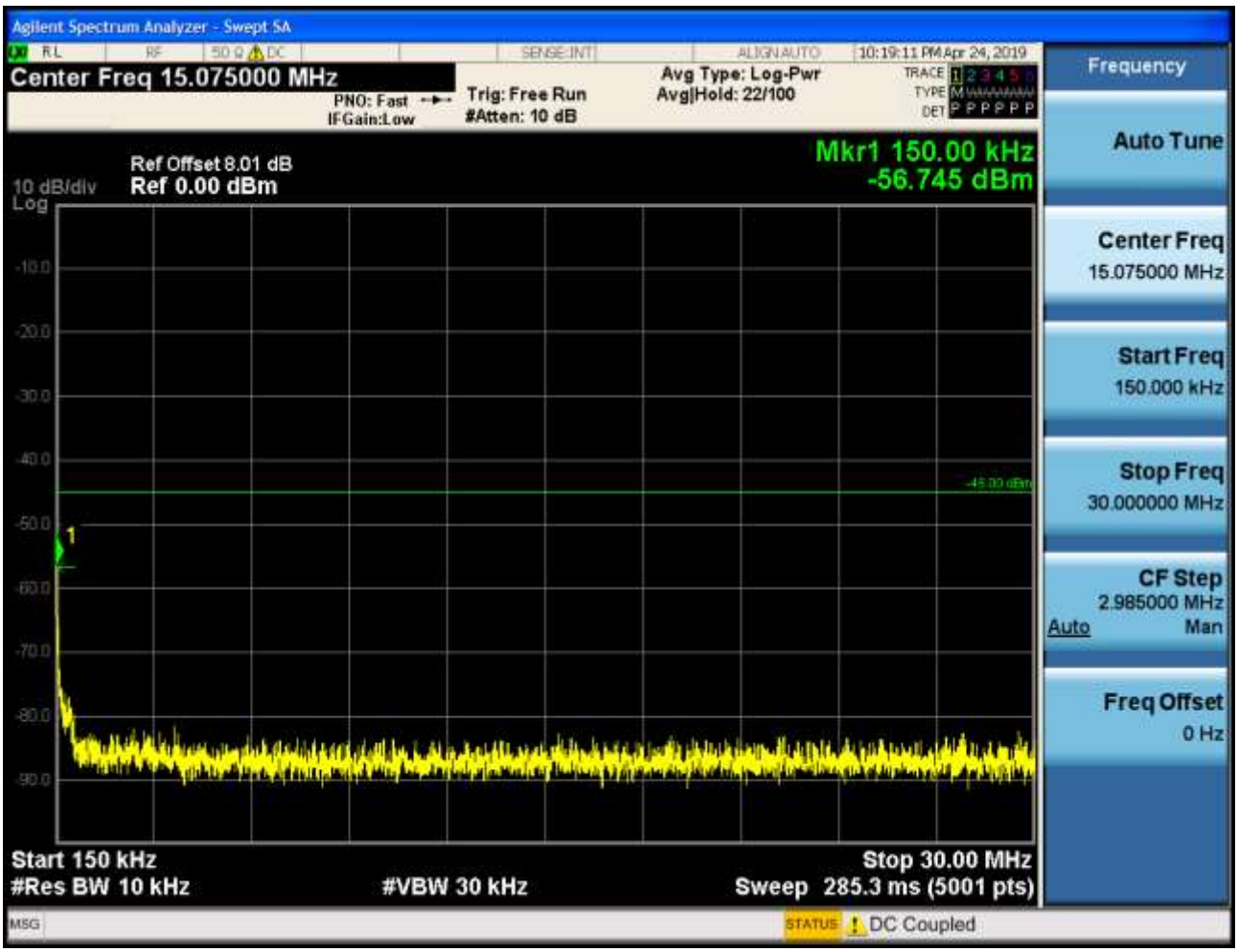
Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:17:09 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.03 dB
10 dB/div
Log
Ref 24.03 dBm
Mkr1 25.277 3 GHz
-32.634 dBm
14.0
4.03
-5.97
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.2.2 Test Bandwidth = 10

##### 6.2.1.2.2.1 Test Channel = LCH

###### 6.2.1.2.2.1.1 Test RB = RB1#0





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Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:19:22 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.01 dB
10 dB/div
Log
Ref 24.01 dBm
Mkr1 25.304 9 GHz
-33.399 dBm
14.0
4.01
-5.99
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.2.2.2 Test Channel = MCH

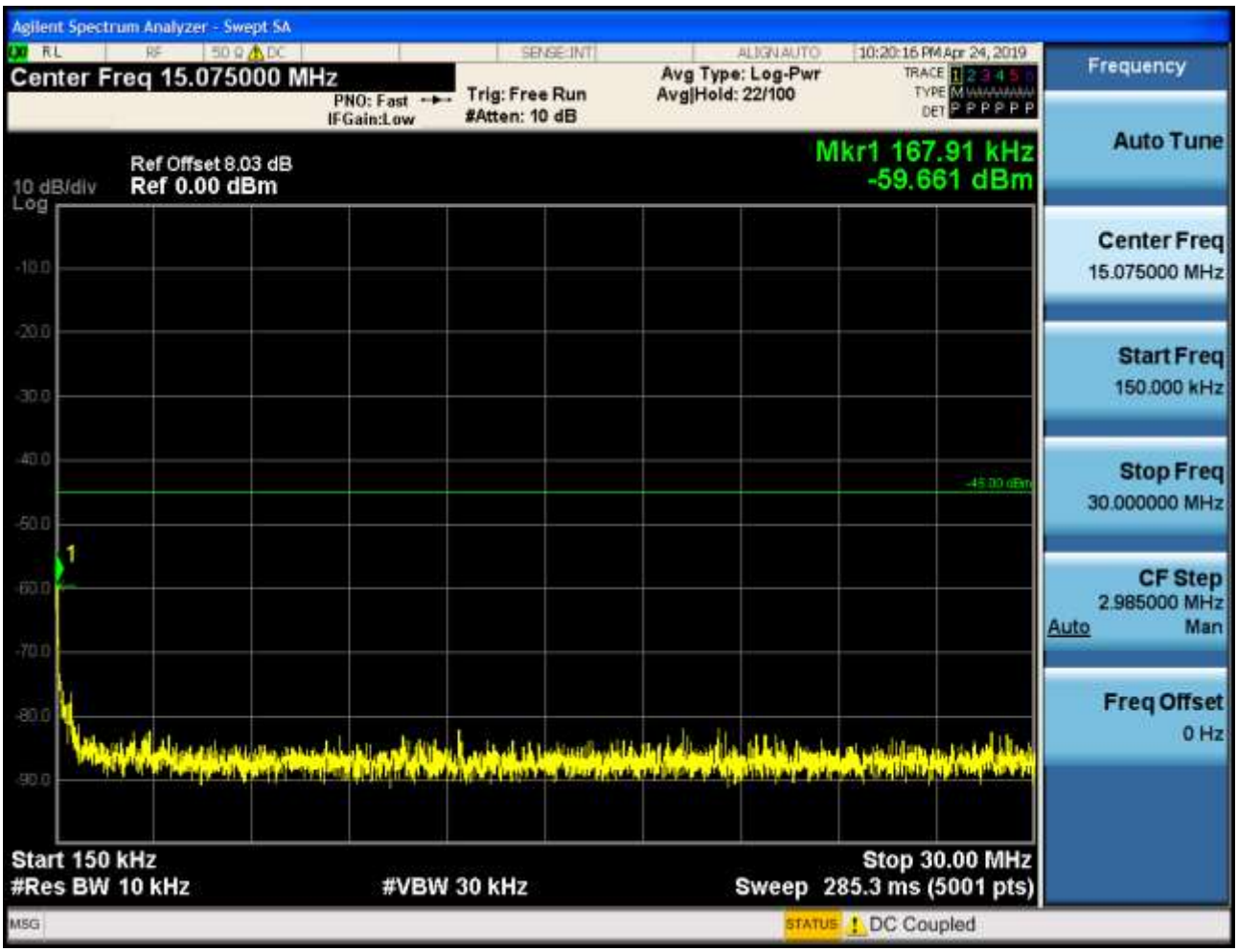
##### 6.2.1.2.2.2.1 Test RB = RB1#0

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
02:16:39 AM Apr 22, 2019
Ref Offset 18.81 dB
10 dB/div
Ref 0.00 dBm
Log
Mkr1 155.97 kHz
-53.890 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:21:32 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 8.02 dB
10 dB/div
Log
Ref 24.02 dBm
Mkr1 24.857 9 GHz
-33.108 dBm
14.0
4.02
-5.98
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.2.2.3 Test Channel = HCH

##### 6.2.1.2.2.3.1 Test RB = RB1#0

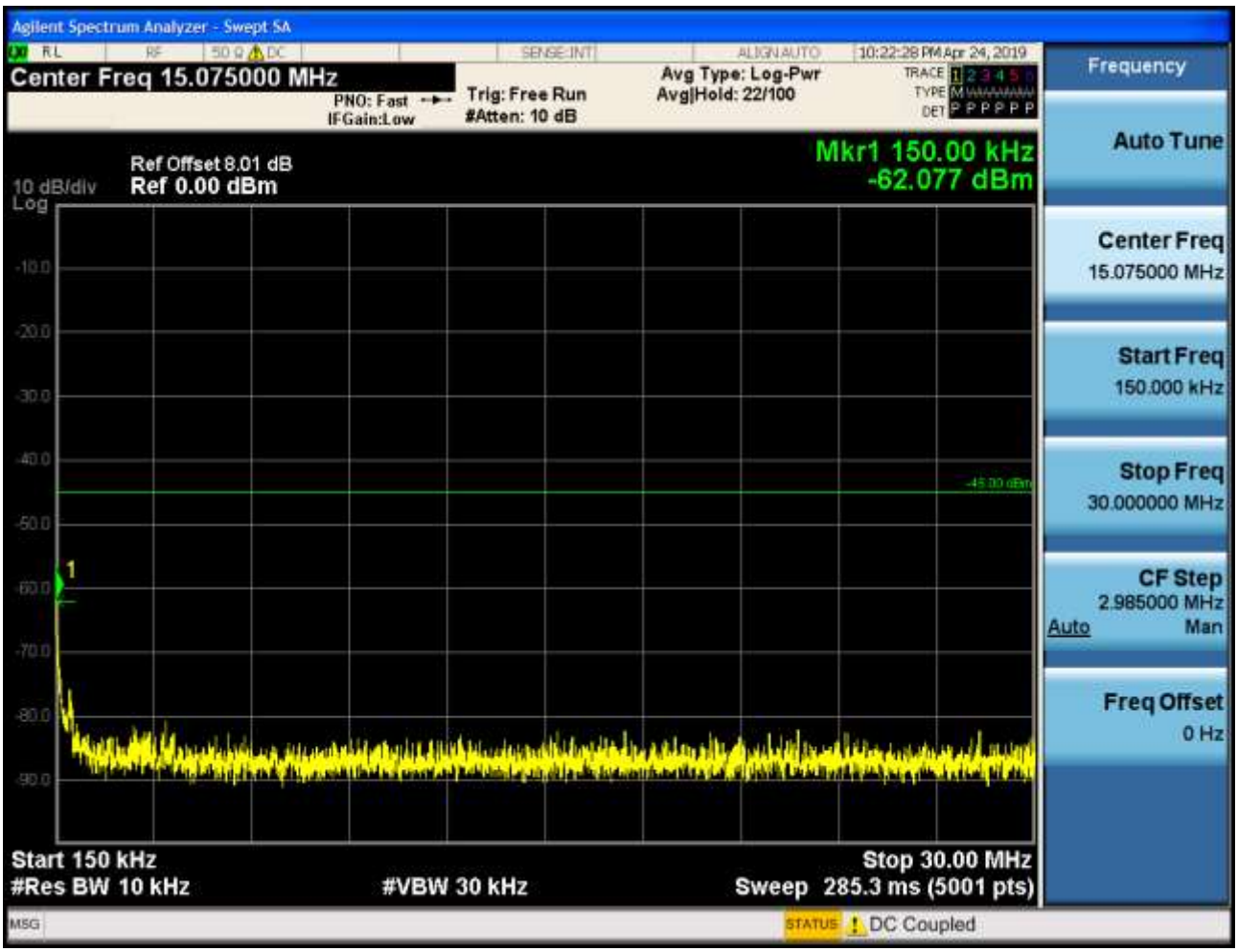

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
10:20:16 PM Apr 24, 2019
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.03 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 167.91 kHz
-59.661 dBm
-10.0
-20.0
-30.0
-40.0
-45.00 dBm
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
10:20:27 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 24.03 dBm
Mkr1 25.420 2 GHz
-32.470 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.2.3 Test Bandwidth = 15

##### 6.2.1.2.3.1 Test Channel = LCH

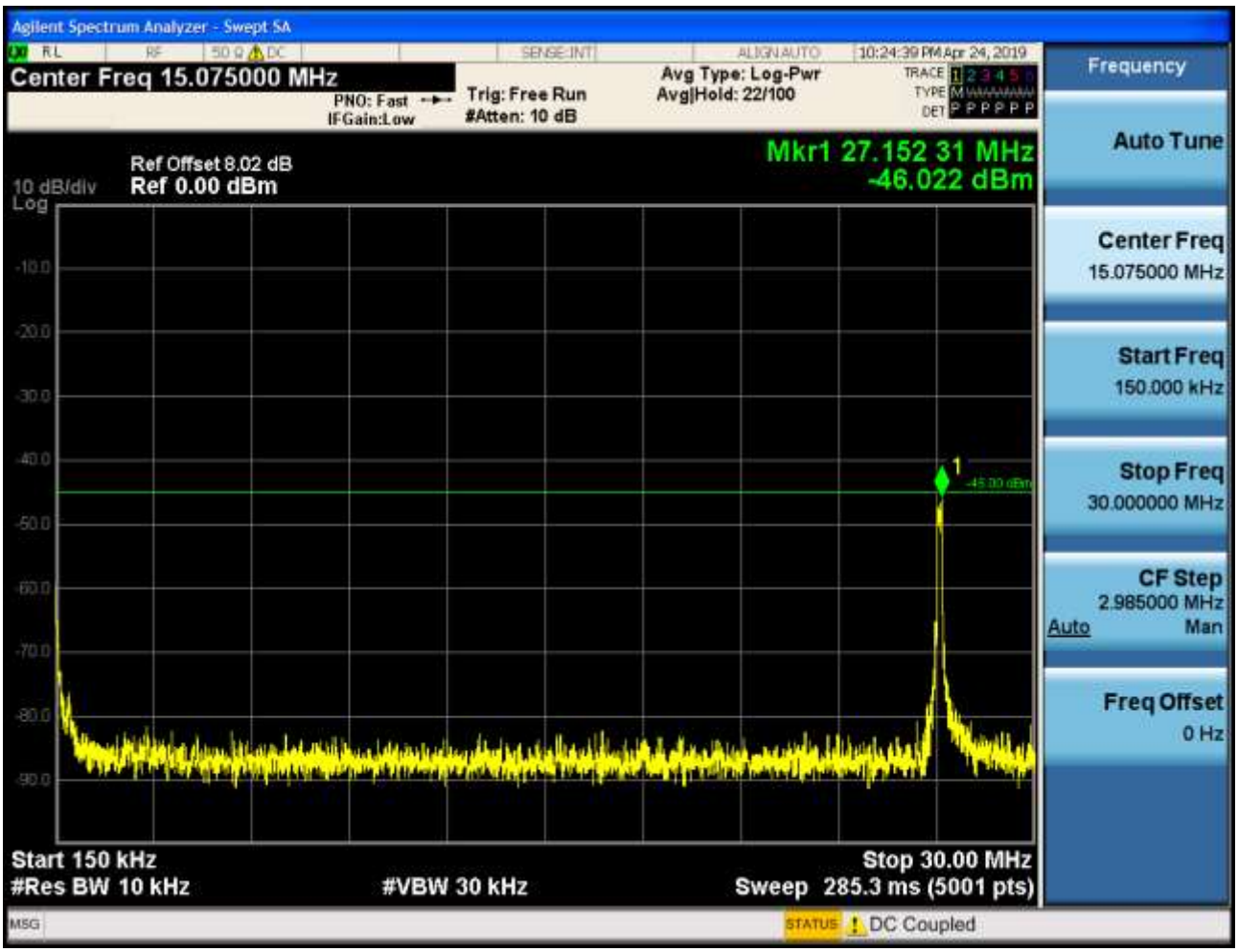
###### 6.2.1.2.3.1.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:22:28 PM Apr 24, 2019
Ref Offset 8.01 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 150.00 kHz
-62.077 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:22:39 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.01 dB
10 dB/div
Log
Ref 24.01 dBm
Mkr1 25.313 7 GHz
-32.236 dBm
14.0
4.01
-5.99
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.2.3.2 Test Channel = MCH

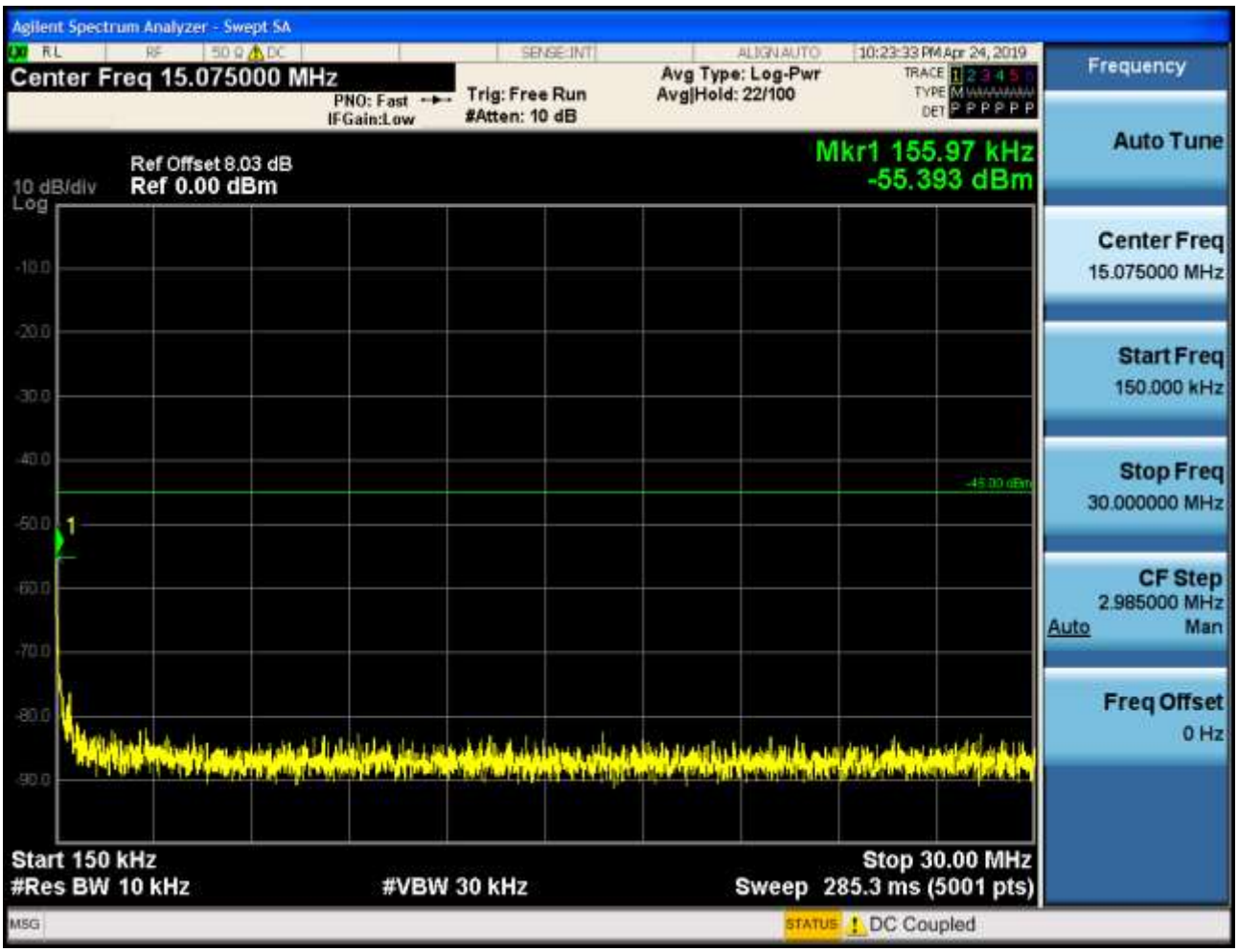
##### 6.2.1.2.3.2.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:24:39 PM Apr 24, 2019
Ref Offset 8.02 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 27.152 31 MHz
-46.022 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:24:50 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 8.02 dB
10 dB/div
Log
Ref 24.02 dBm
Mkr1 25.365 6 GHz
-32.501 dBm
14.0
4.02
-5.98
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.2.3.3 Test Channel = HCH

##### 6.2.1.2.3.3.1 Test RB = RB1#0

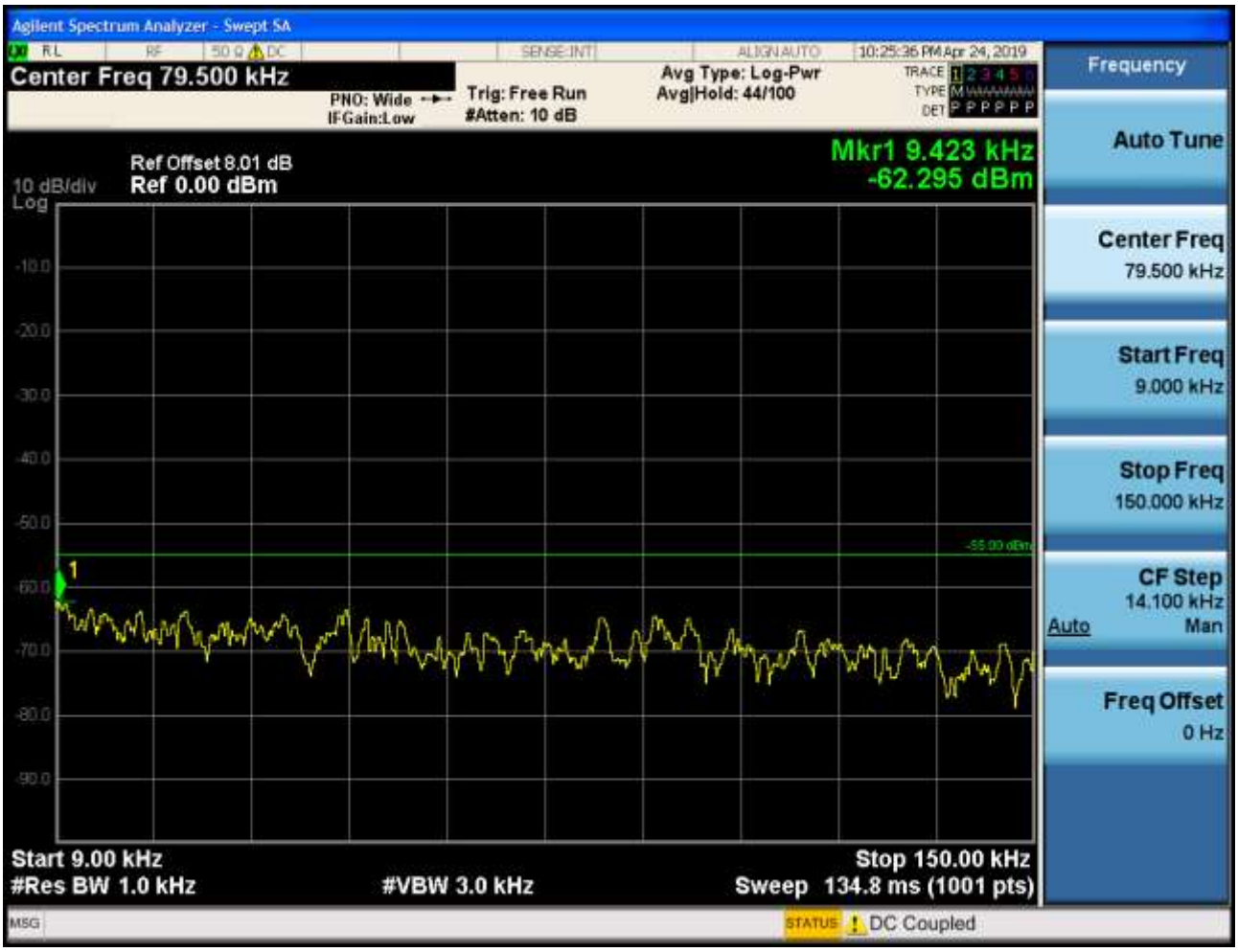

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:23:33 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 155.97 kHz
-55.393 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

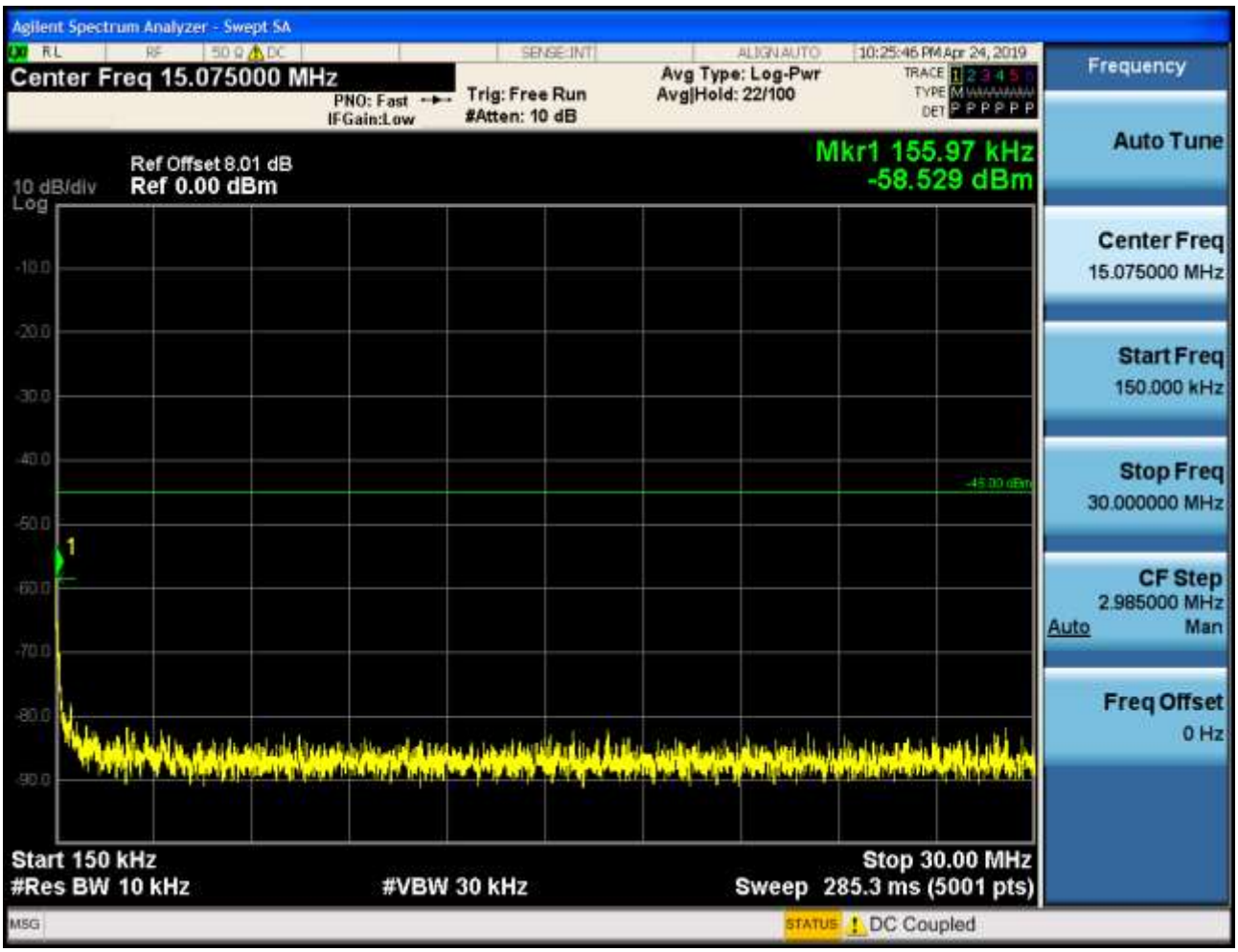
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
10:23:45 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 24.03 dBm
Mkr1 25.439 8 GHz
-33.745 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.2.4 Test Bandwidth = 20

##### 6.2.1.2.4.1 Test Channel = LCH

###### 6.2.1.2.4.1.1 Test RB = RB1#0

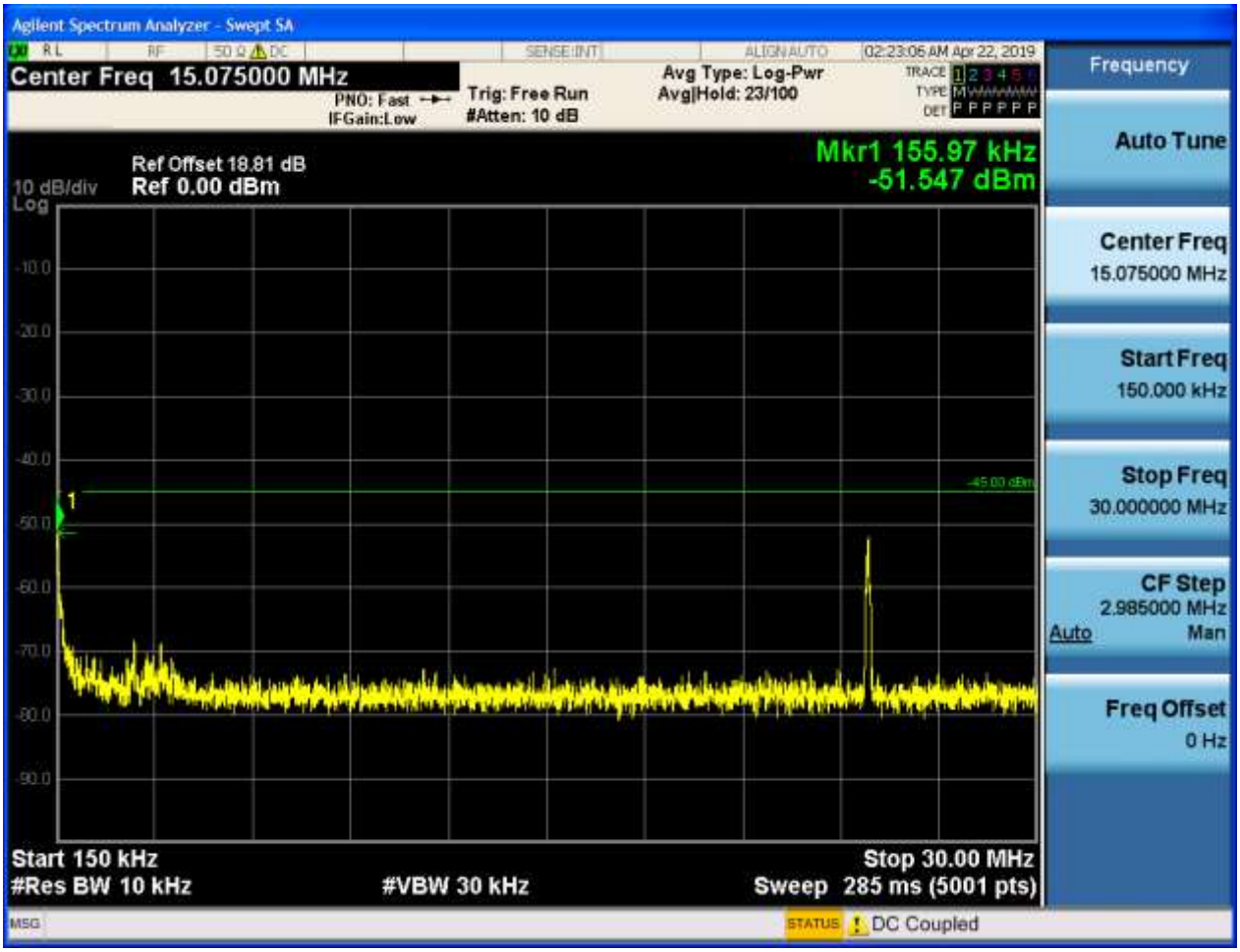



Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
10:25:46 PM Apr 24, 2019
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.01 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 155.97 kHz
-58.529 dBm
-10.0
-20.0
-30.0
-40.0
-45.00 dBm
-50.0
-60.0
-70.0
-80.0
-90.0
1
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:25:57 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 8.01 dB
10 dB/div
Log
Ref 24.01 dBm
Mkr1 25.377 8 GHz
-32.949 dBm
14.0
4.01
-5.99
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

#### 6.2.1.2.4.2 Test Channel = MCH

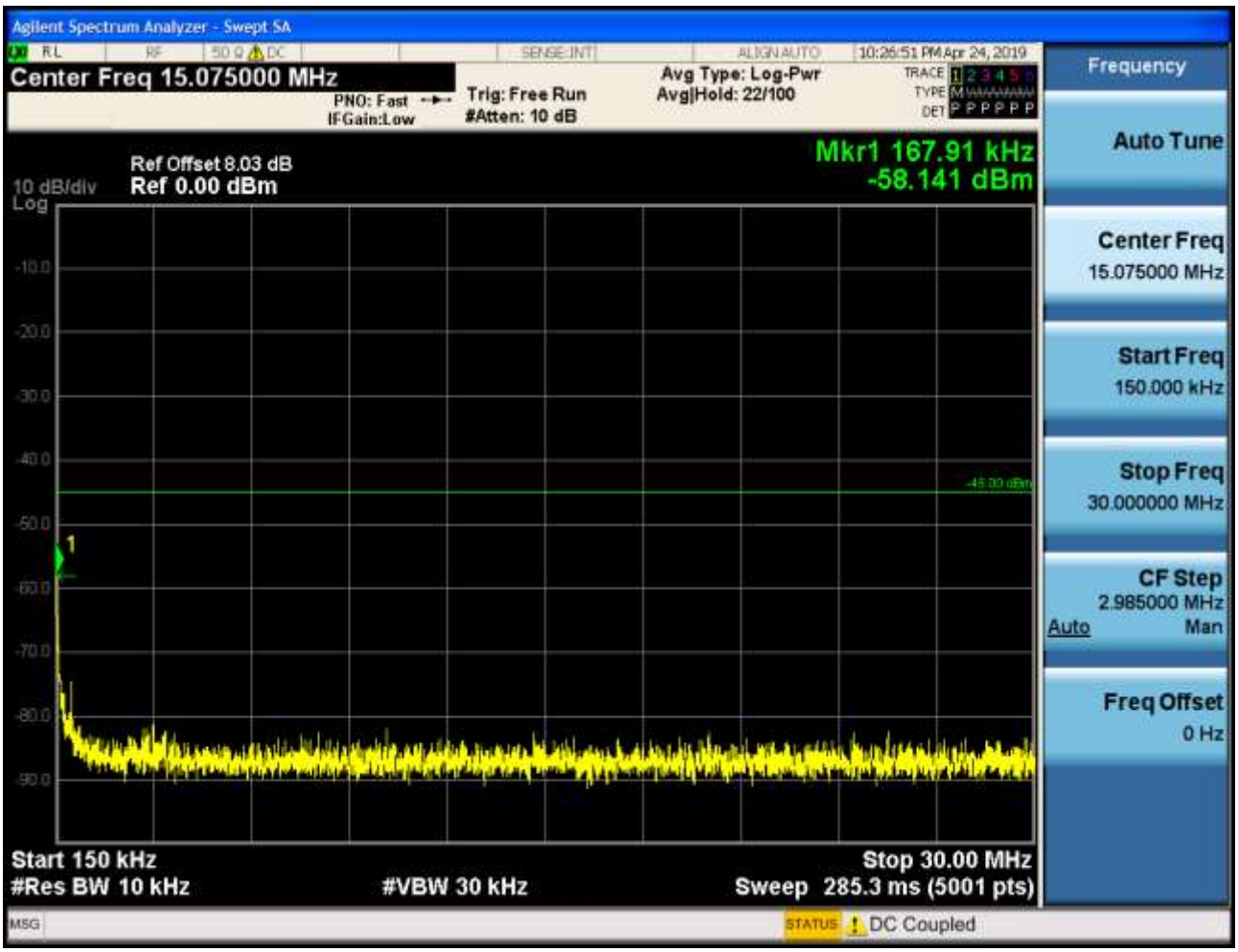
##### 6.2.1.2.4.2.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
02:23:06 AM Apr 22, 2019
Ref Offset 18.81 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 155.97 kHz
-51.547 dBm
-45.00 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 34/100
10:28:08 PM Apr 24, 2019
Ref Offset 8.02 dB
10 dB/div
Log
Ref 24.02 dBm
Mkr1 25.199 1 GHz
-32.955 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

#### 6.2.1.2.4.3 Test Channel = HCH

##### 6.2.1.2.4.3.1 Test RB = RB1#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
10:26:51 PM Apr 24, 2019
Ref Offset 8.03 dB
10 dB/div
Log
Ref 0.00 dBm
Mkr1 167.91 kHz
-58.141 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz
Stop 30.00 MHz
Sweep 285.3 ms (5001 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
10:27:02 PM Apr 24, 2019
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 26 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
TRACE 1 2 3 4 5
TYPE M
DET P P P P P
Ref Offset 8.03 dB
10 dB/div
Log
Ref 24.03 dBm
Mkr1 25.381 1 GHz
-32.389 dBm
14.0
4.03
-5.97
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
-25.00 dBm
1
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.33 ms (40001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

# 7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

**Part I - Test Plots**

**7.1 For LTE**

**7.1.1 Test Band = Band41(2535-2655MHz)**

**7.1.1.1 Test Bandwidth = 5**

| Band41/TM1_Ant1 |
|---|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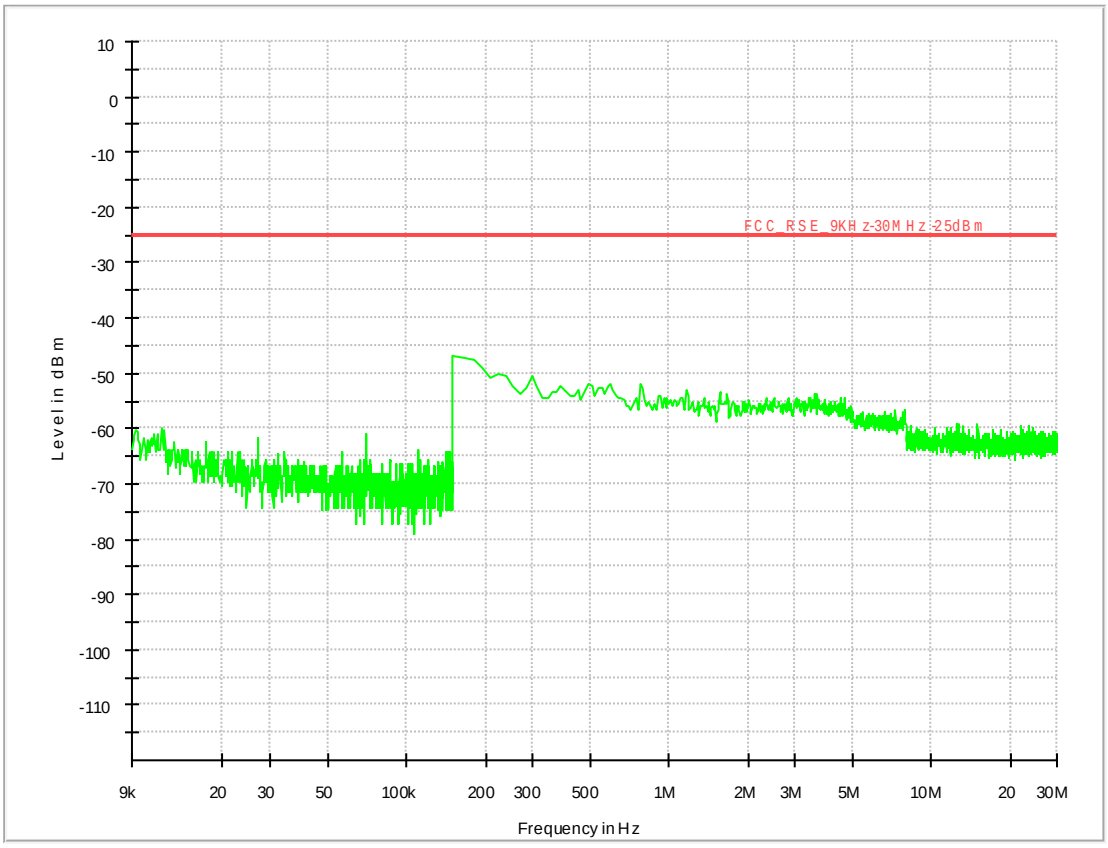


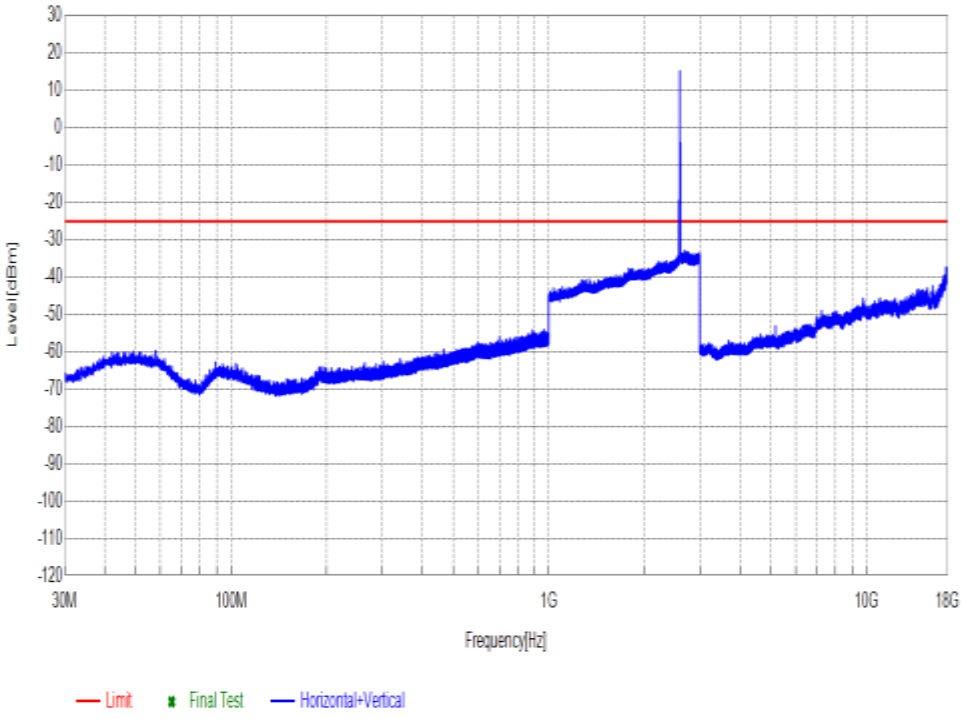



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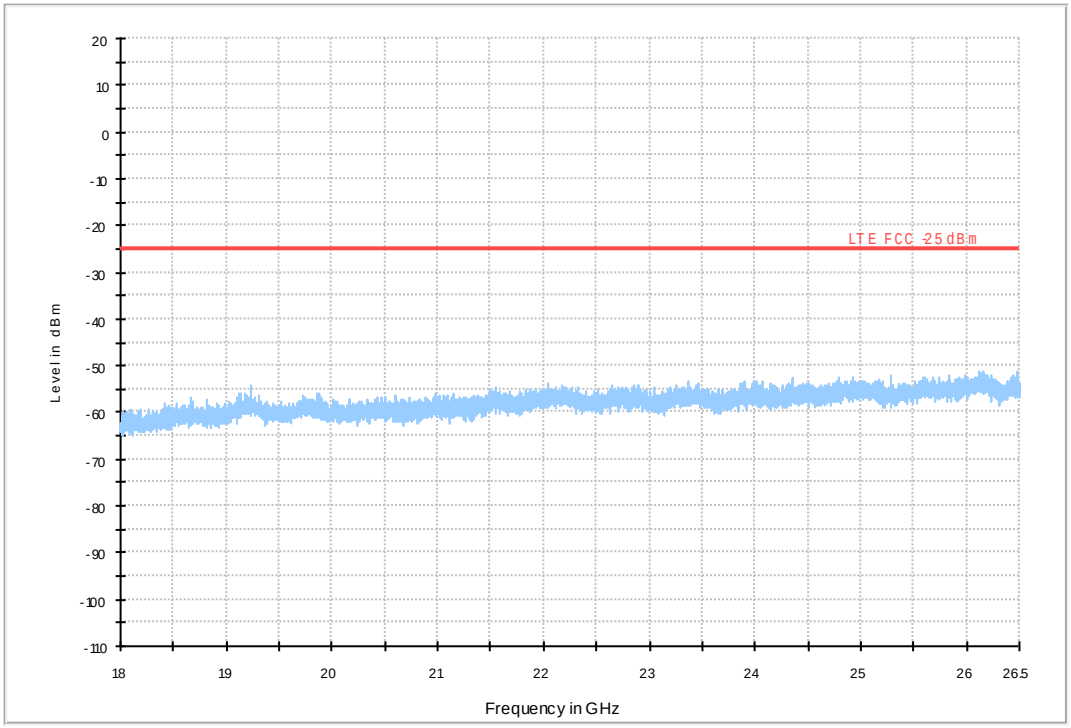
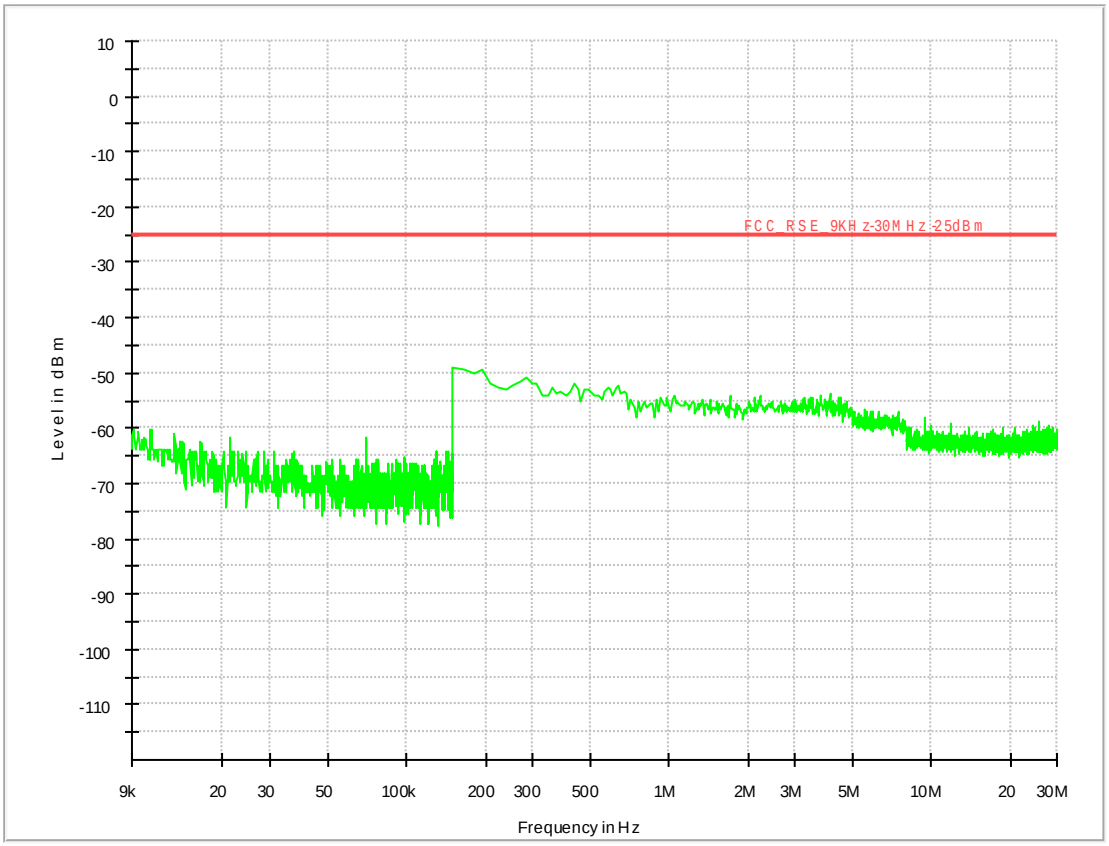



Band41/TM1_Ant2





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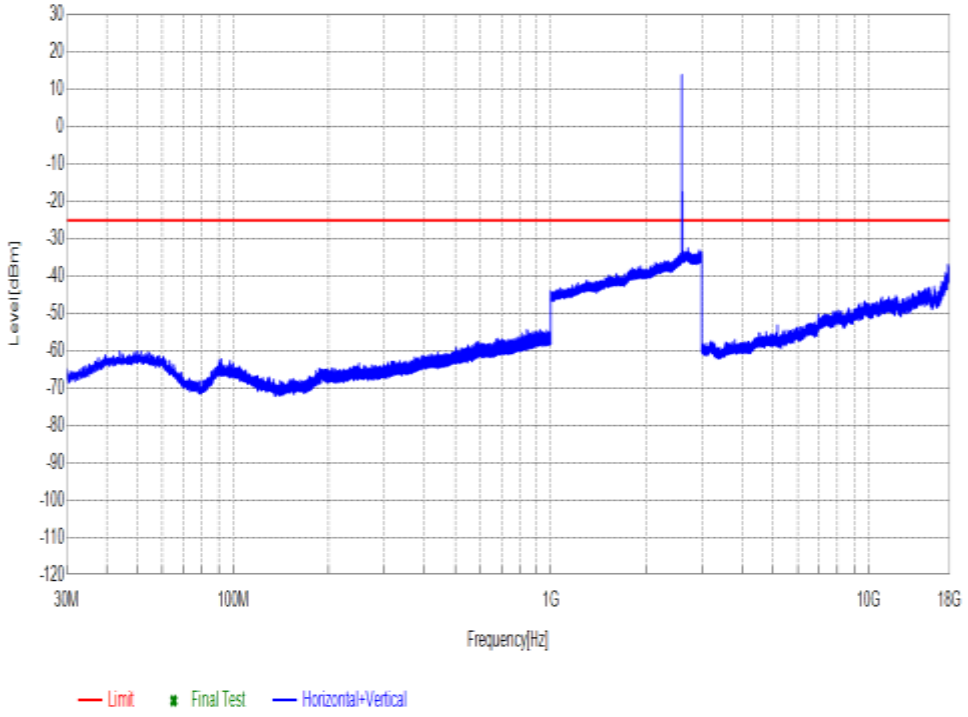
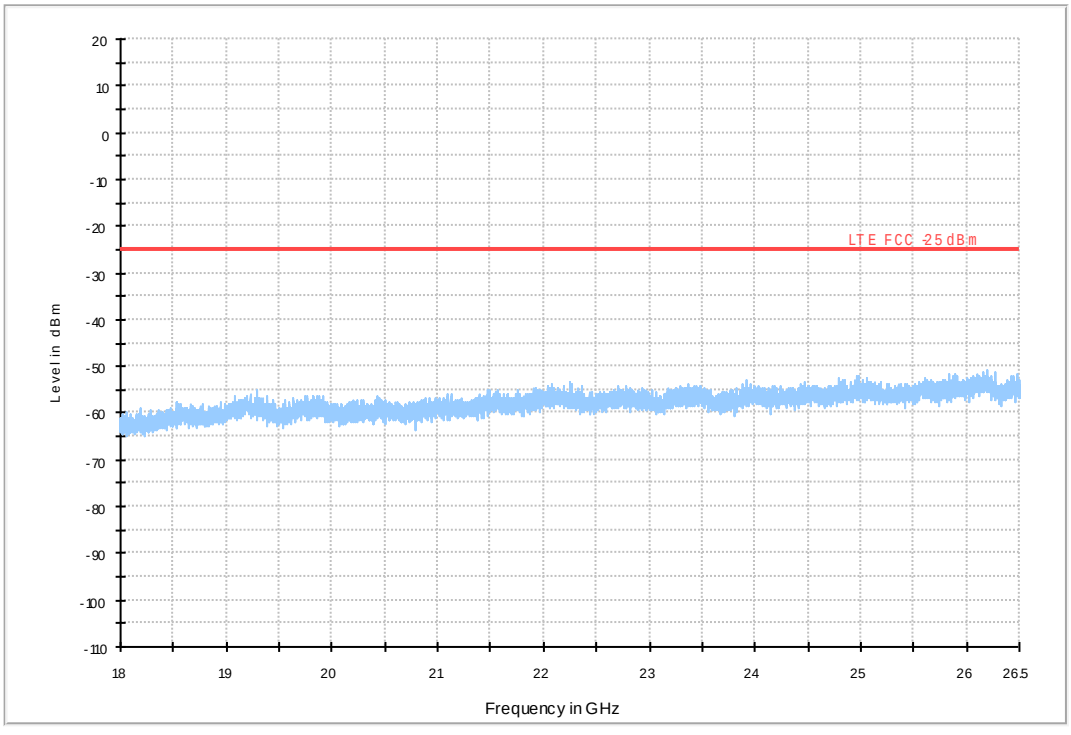



Copy of FCC 18-26.5G





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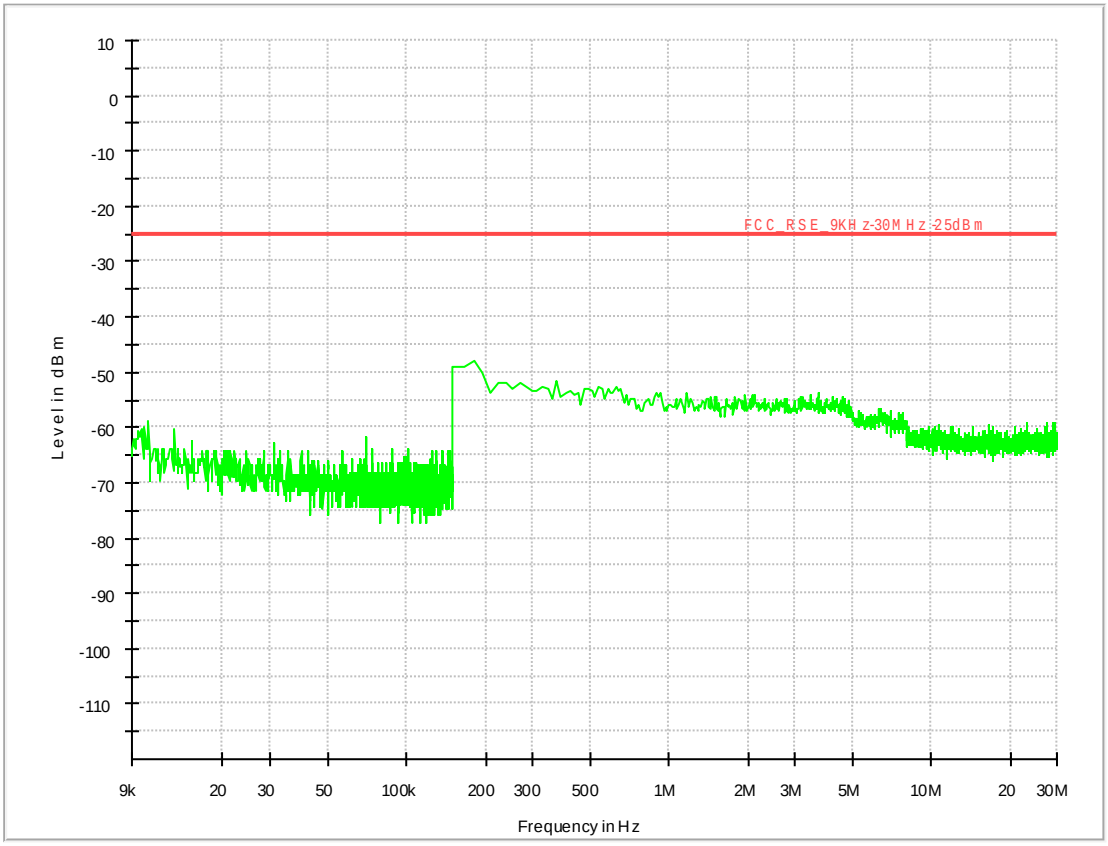
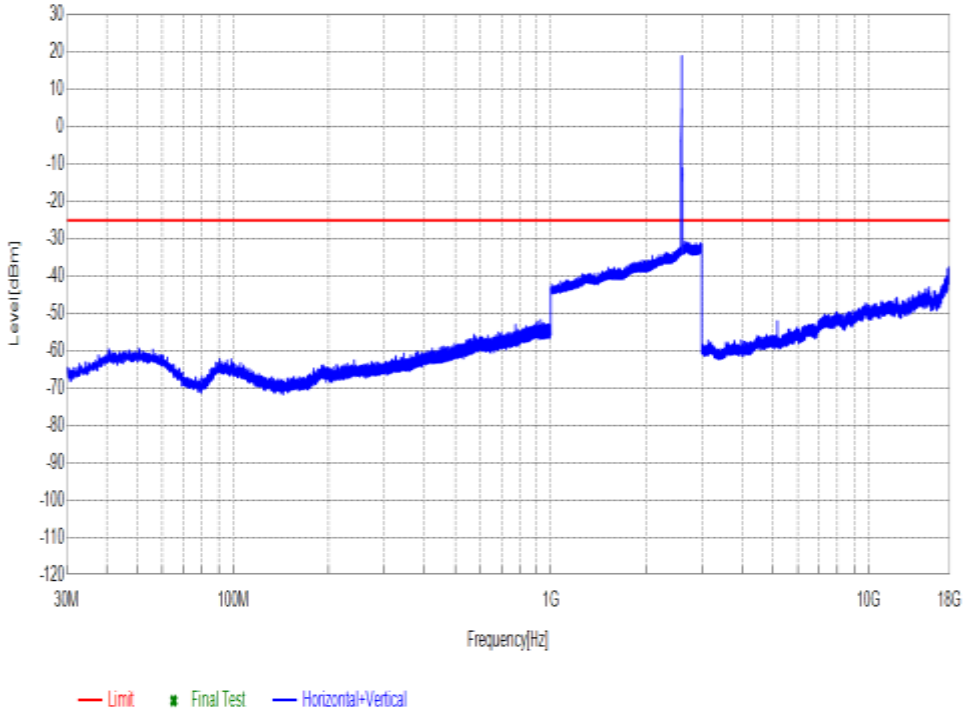
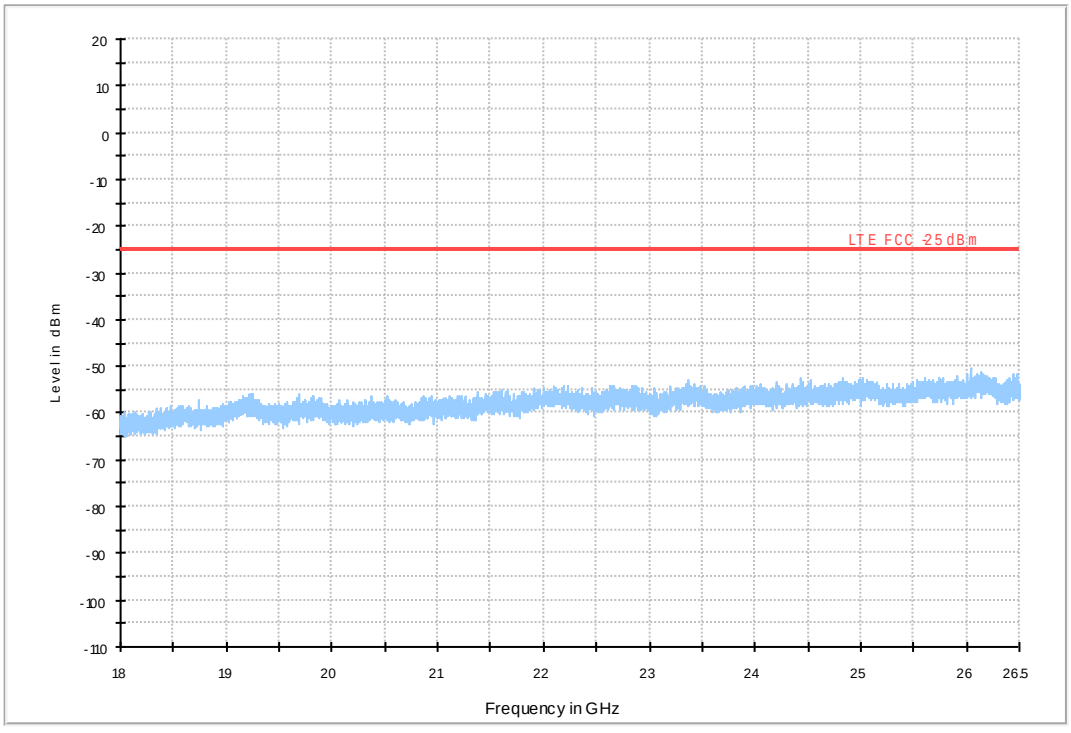
### 7.1.1.2 Test Bandwidth = 20

Band41/TM1_Ant1






Copy of FCC 18-26.5G




Band41/TM1_Ant2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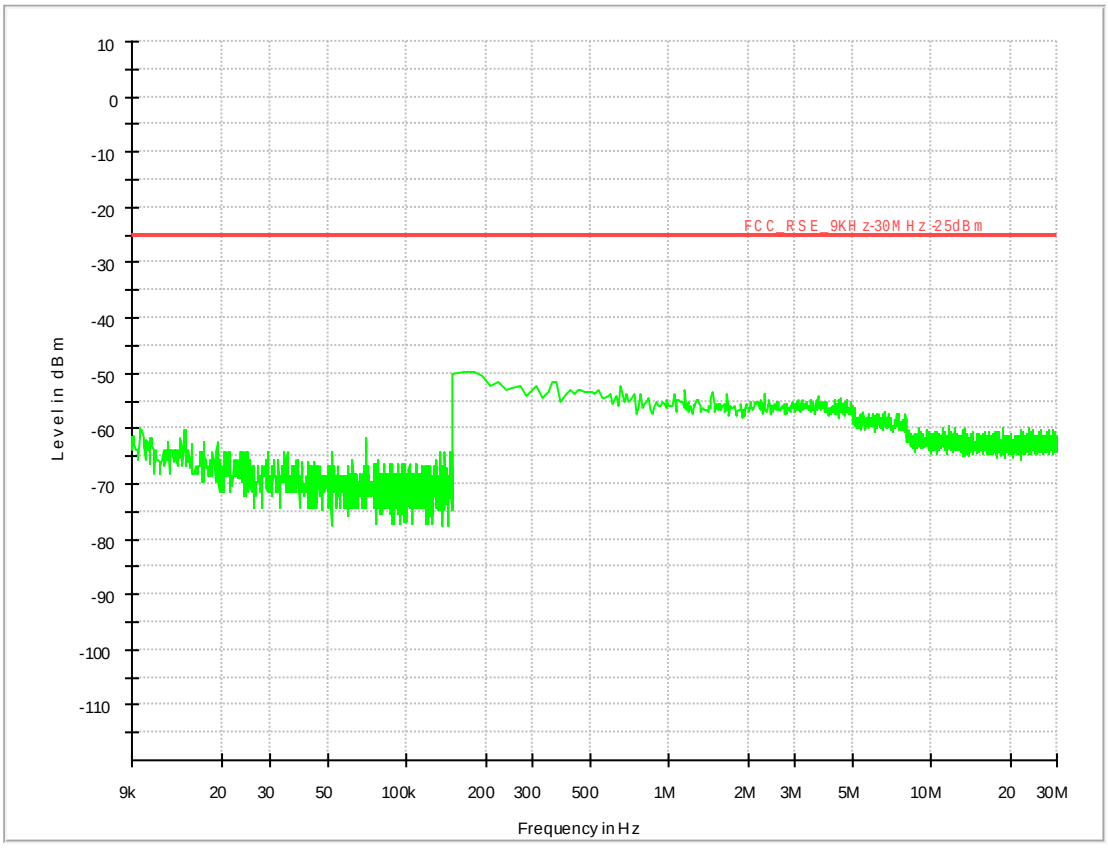


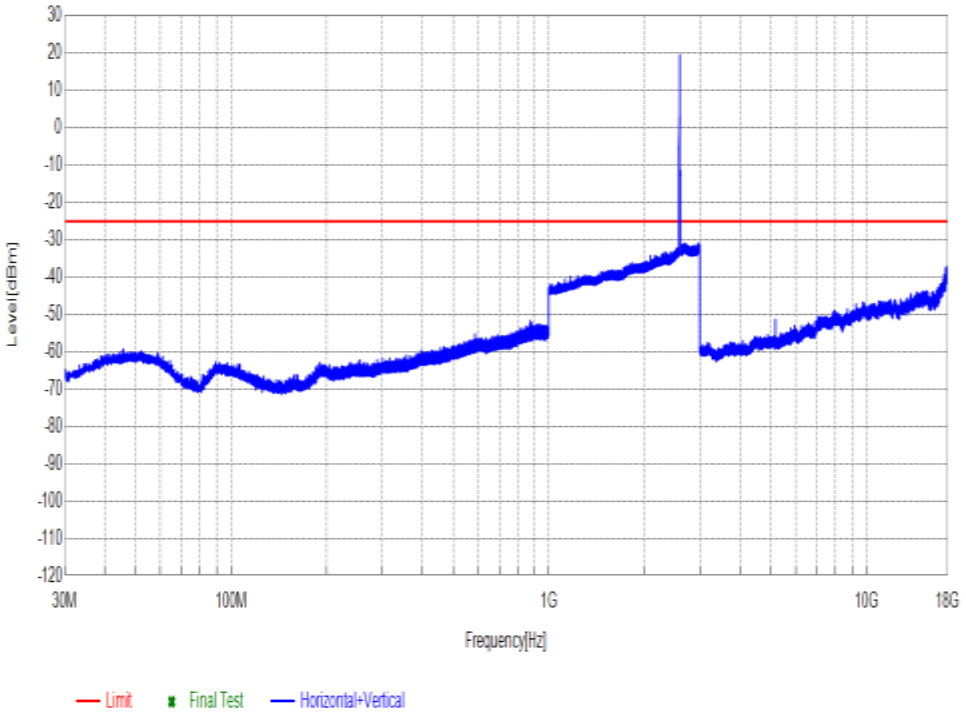



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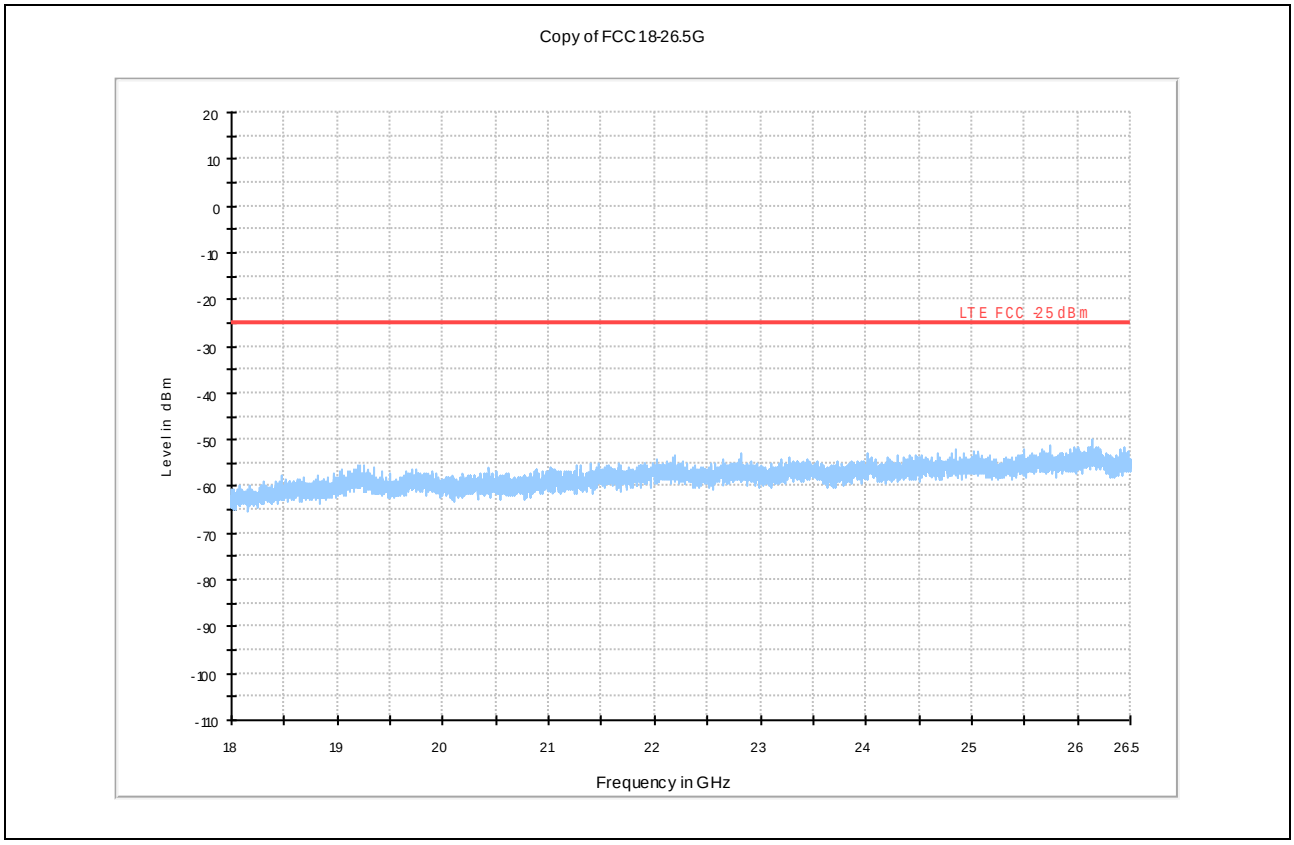



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# 8Appendix_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| Band41(2535-2655MHz) | LTE/TM1 | 5 | LCH | TN | VL | -28.40996 | -0.01120 | PASS |
| | | | | | VN | -17.29488 | -0.00682 | PASS |
| | | | | | VH | -15.12051 | -0.00596 | PASS |
| | | | MCH | TN | VL | -18.96858 | -0.00731 | PASS |
| | | | | | VN | -22.47334 | -0.00866 | PASS |
| | | | | | VH | -16.95156 | -0.00653 | PASS |
| | | | HCH | TN | VL | -23.07415 | -0.00870 | PASS |
| | | | | | VN | -30.05505 | -0.01133 | PASS |
| | | | | | VH | -24.18995 | -0.00912 | PASS |
| | | 10 | LCH | TN | VL | -16.46519 | -0.00648 | PASS |
| | | | | | VN | -21.84391 | -0.00860 | PASS |
| | | | | | VH | -41.64219 | -0.01639 | PASS |
| | | | MCH | TN | VL | -19.82689 | -0.00764 | PASS |
| | | | | | VN | -20.48492 | -0.00789 | PASS |
| | | | | | VH | -45.17555 | -0.01741 | PASS |
| | | | HCH | TN | VL | -25.60616 | -0.00966 | PASS |
| | | | | | VN | -46.29135 | -0.01747 | PASS |
| | | | | | VH | -45.20416 | -0.01706 | PASS |
| | | 15 | LCH | TN | VL | -18.63956 | -0.00733 | PASS |
| | | | | | VN | -16.66546 | -0.00655 | PASS |
| | | | | | VH | -20.02716 | -0.00788 | PASS |
| | | | MCH | TN | VL | -42.32883 | -0.01631 | PASS |
| | | | | | VN | -20.79964 | -0.00802 | PASS |
| | | | | | VH | -19.22607 | -0.00741 | PASS |
| | | | HCH | TN | VL | -29.59728 | -0.01118 | PASS |
| | | | | | VN | -21.55781 | -0.00814 | PASS |
| | | | | | VH | -39.63947 | -0.01497 | PASS |
| | | 20 | LCH | TN | VL | -19.38343 | -0.00762 | PASS |
| | | | | | VN | -46.30566 | -0.01819 | PASS |
| | | | | | VH | -17.78126 | -0.00699 | PASS |
| | | | MCH | TN | VL | -22.67361 | -0.00874 | PASS |
| | | | | | VN | -21.77238 | -0.00839 | PASS |


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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | | | | VH | -21.17157 | -0.00816 | PASS |
| | | | HCH | TN | VL | -36.59248 | -0.01383 | PASS |
| | | | | | VN | -26.02100 | -0.00984 | PASS |
| | | | | | VH | -56.06174 | -0.02120 | PASS |
| | LTE/TM2 | 5 | LCH | TN | VL | -16.45088 | -0.00648 | PASS |
| | | | | | VN | -37.99438 | -0.01497 | PASS |
| | | | | | VH | -31.14223 | -0.01227 | PASS |
| | | | MCH | TN | VL | -15.09190 | -0.00582 | PASS |
| | | | | | VN | -45.71915 | -0.01762 | PASS |
| | | | | | VH | -18.13889 | -0.00699 | PASS |
| | | | HCH | TN | VL | -39.05296 | -0.01472 | PASS |
| | | | | | VN | -65.28854 | -0.02461 | PASS |
| | | | | | VH | -19.88411 | -0.00750 | PASS |
| | | 10 | LCH | TN | VL | -13.77583 | -0.00542 | PASS |
| | | | | | VN | -18.19611 | -0.00716 | PASS |
| | | | | | VH | -18.73970 | -0.00738 | PASS |
| | | | MCH | TN | VL | -45.39013 | -0.01749 | PASS |
| | | | | | VN | -20.18452 | -0.00778 | PASS |
| | | | | | VH | -17.66682 | -0.00681 | PASS |
| | | | HCH | TN | VL | -43.27297 | -0.01633 | PASS |
| | | | | | VN | -23.63205 | -0.00892 | PASS |
| | | | | | VH | -52.44255 | -0.01979 | PASS |
| | | 15 | LCH | TN | VL | -13.06057 | -0.00514 | PASS |
| | | | | | VN | -16.03603 | -0.00631 | PASS |
| | | | | | VH | -37.17899 | -0.01462 | PASS |
| | | | MCH | TN | VL | -38.22327 | -0.01473 | PASS |
| | | | | | VN | -20.04147 | -0.00772 | PASS |
| | | | | | VH | -31.60000 | -0.01218 | PASS |
| | | | HCH | TN | VL | -36.59248 | -0.01382 | PASS |
| | | | | | VN | -35.67696 | -0.01348 | PASS |
| | | | | | VH | -35.59113 | -0.01344 | PASS |
| | | 20 | LCH | TN | VL | -13.20362 | -0.00519 | PASS |
| | | | | | VN | -31.15654 | -0.01224 | PASS |
| | | | | | VH | -18.05305 | -0.00709 | PASS |
| | | | MCH | TN | VL | -17.20905 | -0.00663 | PASS |
| | | | | | VN | -19.21177 | -0.00740 | PASS |
| | | | | | VH | -21.50059 | -0.00829 | PASS |
| | | | HCH | TN | VL | -18.51082 | -0.00700 | PASS |


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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | | | | VN | -23.40317 | -0.00885 | PASS |
| | | | | | VH | -28.12386 | -0.01063 | PASS |

**8.1.2Frequency Error vs. Temperature:**

| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| Band41(2535-2655MHz) | LTE/TM1 | 5 | LCH | VN | -30 | -14.16206 | -0.00558 | PASS |
| | | | | | -20 | -30.24101 | -0.01192 | PASS |
| | | | | | -10 | -13.20362 | -0.00520 | PASS |
| | | | | | 0 | -20.91408 | -0.00824 | PASS |
| | | | | | 10 | -13.99040 | -0.00551 | PASS |
| | | | | | 20 | -17.29488 | -0.00682 | PASS |
| | | | | | 30 | -16.43658 | -0.00648 | PASS |
| | | | | | 40 | -28.68176 | -0.01130 | PASS |
| | | | | | 50 | -16.02173 | -0.00631 | PASS |
| | | | MCH | VN | -30 | -22.05849 | -0.00850 | PASS |
| | | | | | -20 | -23.51761 | -0.00906 | PASS |
| | | | | | -10 | -25.42019 | -0.00980 | PASS |
| | | | | | 0 | -22.81666 | -0.00879 | PASS |
| | | | | | 10 | -22.83096 | -0.00880 | PASS |
| | | | | | 20 | -22.47334 | -0.00866 | PASS |
| | | | | | 30 | -20.45631 | -0.00788 | PASS |
| | | | | | 40 | -24.23286 | -0.00934 | PASS |
| | | | | | 50 | -25.37727 | -0.00978 | PASS |
| | | | HCH | VN | -30 | -28.98216 | -0.01093 | PASS |
| | | | | | -20 | -31.51417 | -0.01188 | PASS |
| | | | | | -10 | -59.92413 | -0.02259 | PASS |
| | | | | | 0 | -31.27098 | -0.01179 | PASS |
| | | | | | 10 | -27.46582 | -0.01035 | PASS |
| | | | | | 20 | -30.05505 | -0.01133 | PASS |
| | | | | | 30 | -29.33979 | -0.01106 | PASS |
| | | | | | 40 | -33.18787 | -0.01251 | PASS |
| | | | | | 50 | -30.51281 | -0.01150 | PASS |
| | | 10 | LCH | VN | -30 | -17.91000 | -0.00705 | PASS |
| | | | | | -20 | -19.04011 | -0.00750 | PASS |
| | | | | | -10 | -17.88139 | -0.00704 | PASS |
| | | | | | 0 | -42.97256 | -0.01692 | PASS |


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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | | | | 10 | -17.10892 | -0.00674 | PASS |
| | | | | | 20 | -21.84391 | -0.00860 | PASS |
| | | | | | 30 | -16.59393 | -0.00653 | PASS |
| | | | | | 40 | -16.47949 | -0.00649 | PASS |
| | | | | | 50 | -18.02444 | -0.00710 | PASS |
| | | | MCH | VN | -30 | -64.94522 | -0.02503 | PASS |
| | | | | | -20 | -20.62798 | -0.00795 | PASS |
| | | | | | -10 | -35.01892 | -0.01349 | PASS |
| | | | | | 0 | -26.72195 | -0.01030 | PASS |
| | | | | | 10 | -20.57076 | -0.00793 | PASS |
| | | | | | 20 | -20.48492 | -0.00789 | PASS |
| | | | | | 30 | -21.72947 | -0.00837 | PASS |
| | | | | | 40 | -21.74377 | -0.00838 | PASS |
| | | | | | 50 | -20.85686 | -0.00804 | PASS |
| | | | HCH | VN | -30 | -24.46175 | -0.00923 | PASS |
| | | | | | -20 | -64.98814 | -0.02452 | PASS |
| | | | | | -10 | -24.47605 | -0.00924 | PASS |
| | | | | | 0 | -55.99022 | -0.02113 | PASS |
| | | | | | 10 | -23.93246 | -0.00903 | PASS |
| | | | | | 20 | -46.29135 | -0.01747 | PASS |
| | | | | | 30 | -24.60480 | -0.00928 | PASS |
| | | | | | 40 | -21.75808 | -0.00821 | PASS |
| | | | | | 50 | -26.79348 | -0.01011 | PASS |
| | | 15 | LCH | VN | -30 | -20.14160 | -0.00792 | PASS |
| | | | | | -20 | -45.01820 | -0.01771 | PASS |
| | | | | | -10 | -47.02091 | -0.01849 | PASS |
| | | | | | 0 | -61.48338 | -0.02418 | PASS |
| | | | | | 10 | -52.48547 | -0.02064 | PASS |
| | | | | | 20 | -16.66546 | -0.00655 | PASS |
| | | | | | 30 | -59.93843 | -0.02357 | PASS |
| | | | | | 40 | -19.75536 | -0.00777 | PASS |
| | | | | | 50 | -19.18316 | -0.00754 | PASS |
| | | | MCH | VN | -30 | -41.27026 | -0.01590 | PASS |
| | | | | | -20 | -23.73219 | -0.00915 | PASS |
| | | | | | -10 | -23.38886 | -0.00901 | PASS |
| | | | | | 0 | -24.14703 | -0.00931 | PASS |
| | | | | | 10 | -42.04273 | -0.01620 | PASS |
| | | | | | 20 | -20.79964 | -0.00802 | PASS |
| | | | | | 30 | -24.66202 | -0.00950 | PASS |


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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | | | | 40 | -20.42770 | -0.00787 | PASS |
| | | | | | 50 | -41.92829 | -0.01616 | PASS |
| | | | HCH | VN | -30 | -22.87388 | -0.00864 | PASS |
| | | | | | -20 | -28.86772 | -0.01090 | PASS |
| | | | | | -10 | -38.18035 | -0.01442 | PASS |
| | | | | | 0 | -40.21168 | -0.01519 | PASS |
| | | | | | 10 | -44.56043 | -0.01683 | PASS |
| | | | | | 20 | -21.55781 | -0.00814 | PASS |
| | | | | | 30 | -31.05640 | -0.01173 | PASS |
| | | | | | 40 | -40.15446 | -0.01517 | PASS |
| | | | | | 50 | -22.33028 | -0.00843 | PASS |
| | | 20 | LCH | VN | -30 | -16.35075 | -0.00642 | PASS |
| | | | | | -20 | -21.38615 | -0.00840 | PASS |
| | | | | | -10 | -19.52648 | -0.00767 | PASS |
| | | | | | 0 | -20.38479 | -0.00801 | PASS |
| | | | | | 10 | -18.91136 | -0.00743 | PASS |
| | | | | | 20 | -46.30566 | -0.01819 | PASS |
| | | | | | 30 | -20.78533 | -0.00817 | PASS |
| | | | | | 40 | -18.86845 | -0.00741 | PASS |
| | | | | | 50 | -21.98696 | -0.00864 | PASS |
| | | | MCH | VN | -30 | -21.21449 | -0.00818 | PASS |
| | | | | | -20 | -18.31055 | -0.00706 | PASS |
| | | | | | -10 | -23.01693 | -0.00887 | PASS |
| | | | | | 0 | -20.29896 | -0.00782 | PASS |
| | | | | | 10 | -20.41340 | -0.00787 | PASS |
| | | | | | 20 | -21.77238 | -0.00839 | PASS |
| | | | | | 30 | -19.06872 | -0.00735 | PASS |
| | | | | | 40 | -18.22472 | -0.00702 | PASS |
| | | | | | 50 | -20.21313 | -0.00779 | PASS |
| | | | HCH | VN | -30 | -21.55781 | -0.00815 | PASS |
| | | | | | -20 | -22.90249 | -0.00866 | PASS |
| | | | | | -10 | -26.23558 | -0.00992 | PASS |
| | | | | | 0 | -23.81802 | -0.00900 | PASS |
| | | | | | 10 | -25.46310 | -0.00963 | PASS |
| | | | | | 20 | -26.02100 | -0.00984 | PASS |
| | | | | | 30 | -21.91544 | -0.00829 | PASS |
| | | | | | 40 | -22.64500 | -0.00856 | PASS |
| | | | | | 50 | -24.94812 | -0.00943 | PASS |
| | LTE/TM2 | 5 | LCH | VN | -30 | -26.92223 | -0.01061 | PASS |


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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | | | | -20 | -38.36632 | -0.01512 | PASS |
| | | | | | -10 | -26.63612 | -0.01050 | PASS |
| | | | | | 0 | -29.72603 | -0.01171 | PASS |
| | | | | | 10 | -31.47125 | -0.01240 | PASS |
| | | | | | 20 | -37.99438 | -0.01497 | PASS |
| | | | | | 30 | -27.65179 | -0.01090 | PASS |
| | | | | | 40 | -37.80842 | -0.01490 | PASS |
| | | | | | 50 | -25.77782 | -0.01016 | PASS |
| | | | MCH | VN | -30 | -22.45903 | -0.00865 | PASS |
| | | | | | -20 | -25.73490 | -0.00992 | PASS |
| | | | | | -10 | -23.71788 | -0.00914 | PASS |
| | | | | | 0 | -24.17564 | -0.00932 | PASS |
| | | | | | 10 | -21.81530 | -0.00841 | PASS |
| | | | | | 20 | -45.71915 | -0.01762 | PASS |
| | | | | | 30 | -18.08167 | -0.00697 | PASS |
| | | | | | 40 | -26.16405 | -0.01008 | PASS |
| | | | | | 50 | -24.54758 | -0.00946 | PASS |
| | | | HCH | VN | -30 | -27.78053 | -0.01047 | PASS |
| | | | | | -20 | -53.51543 | -0.02018 | PASS |
| | | | | | -10 | -80.10864 | -0.03020 | PASS |
| | | | | | 0 | -24.53327 | -0.00925 | PASS |
| | | | | | 10 | -23.28873 | -0.00878 | PASS |
| | | | | | 20 | -65.28854 | -0.02461 | PASS |
| | | | | | 30 | -84.52892 | -0.03187 | PASS |
| | | | | | 40 | -28.79620 | -0.01086 | PASS |
| | | | | | 50 | -25.24853 | -0.00952 | PASS |
| | | 10 | LCH | VN | -30 | -17.48085 | -0.00688 | PASS |
| | | | | | -20 | -22.38750 | -0.00881 | PASS |
| | | | | | -10 | -20.69950 | -0.00815 | PASS |
| | | | | | 0 | -56.66256 | -0.02231 | PASS |
| | | | | | 10 | -17.40932 | -0.00685 | PASS |
| | | | | | 20 | -18.19611 | -0.00716 | PASS |
| | | | | | 30 | -15.70702 | -0.00618 | PASS |
| | | | | | 40 | -18.98289 | -0.00747 | PASS |
| | | | | | 50 | -18.83984 | -0.00742 | PASS |
| | | | MCH | VN | -30 | -47.99366 | -0.01849 | PASS |
| | | | | | -20 | -20.65659 | -0.00796 | PASS |
| | | | | | -10 | -43.07270 | -0.01660 | PASS |
| | | | | | 0 | -20.45631 | -0.00788 | PASS |


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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | | | | 10 | -46.30566 | -0.01784 | PASS |
| | | | | | 20 | -20.18452 | -0.00778 | PASS |
| | | | | | 30 | -44.38877 | -0.01711 | PASS |
| | | | | | 40 | -36.95011 | -0.01424 | PASS |
| | | | | | 50 | -22.25876 | -0.00858 | PASS |
| | | | HCH | VN | -30 | -47.32132 | -0.01786 | PASS |
| | | | | | -20 | -57.60670 | -0.02174 | PASS |
| | | | | | -10 | -18.66817 | -0.00704 | PASS |
| | | | | | 0 | -48.45142 | -0.01828 | PASS |
| | | | | | 10 | -20.99991 | -0.00792 | PASS |
| | | | | | 20 | -23.63205 | -0.00892 | PASS |
| | | | | | 30 | -21.60072 | -0.00815 | PASS |
| | | | | | 40 | -48.20824 | -0.01819 | PASS |
| | | | | | 50 | -43.24436 | -0.01632 | PASS |
| | | 15 | LCH | VN | -30 | -17.98153 | -0.00707 | PASS |
| | | | | | -20 | -30.06935 | -0.01183 | PASS |
| | | | | | -10 | -43.98823 | -0.01730 | PASS |
| | | | | | 0 | -45.24708 | -0.01780 | PASS |
| | | | | | 10 | -30.21240 | -0.01188 | PASS |
| | | | | | 20 | -16.03603 | -0.00631 | PASS |
| | | | | | 30 | -46.92078 | -0.01845 | PASS |
| | | | | | 40 | -15.77854 | -0.00621 | PASS |
| | | | | | 50 | -18.72540 | -0.00736 | PASS |
| | | | MCH | VN | -30 | -35.00462 | -0.01349 | PASS |
| | | | | | -20 | -39.32476 | -0.01515 | PASS |
| | | | | | -10 | -40.95554 | -0.01578 | PASS |
| | | | | | 0 | -36.74984 | -0.01416 | PASS |
| | | | | | 10 | -35.76279 | -0.01378 | PASS |
| | | | | | 20 | -20.04147 | -0.00772 | PASS |
| | | | | | 30 | -17.26627 | -0.00665 | PASS |
| | | | | | 40 | -27.32277 | -0.01053 | PASS |
| | | | | | 50 | -21.40045 | -0.00825 | PASS |
| | | | HCH | VN | -30 | -18.78262 | -0.00709 | PASS |
| | | | | | -20 | -22.25876 | -0.00841 | PASS |
| | | | | | -10 | -22.18723 | -0.00838 | PASS |
| | | | | | 0 | -33.00190 | -0.01247 | PASS |
| | | | | | 10 | -33.37383 | -0.01261 | PASS |
| | | | | | 20 | -35.67696 | -0.01348 | PASS |
| | | | | | 30 | -44.13128 | -0.01667 | PASS |


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| Test Band | Test Mode | Test Bandwidth (MHz) | Test Channel | Test Volt. | Test Temp | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|---|---|---|---|---|---|---|---|---|
| | | | | | 40 | -23.21720 | -0.00877 | PASS |
| | | | | | 50 | -38.25188 | -0.01445 | PASS |
| | | 20 | LCH | VN | -30 | -13.99040 | -0.00550 | PASS |
| | | | | | -20 | -17.58099 | -0.00691 | PASS |
| | | | | | -10 | -17.42363 | -0.00685 | PASS |
| | | | | | 0 | -20.47062 | -0.00804 | PASS |
| | | | | | 10 | -19.75536 | -0.00776 | PASS |
| | | | | | 20 | -31.15654 | -0.01224 | PASS |
| | | | | | 30 | -16.76559 | -0.00659 | PASS |
| | | | | | 40 | -19.42635 | -0.00763 | PASS |
| | | | | | 50 | -17.55238 | -0.00690 | PASS |
| | | | MCH | VN | -30 | -19.39774 | -0.00748 | PASS |
| | | | | | -20 | -17.98153 | -0.00693 | PASS |
| | | | | | -10 | -19.35482 | -0.00746 | PASS |
| | | | | | 0 | -18.02444 | -0.00695 | PASS |
| | | | | | 10 | -19.39774 | -0.00748 | PASS |
| | | | | | 20 | -19.21177 | -0.00740 | PASS |
| | | | | | 30 | -20.04147 | -0.00772 | PASS |
| | | | | | 40 | -18.31055 | -0.00706 | PASS |
| | | | | | 50 | -20.87116 | -0.00804 | PASS |
| | | | HCH | VN | -30 | -20.14160 | -0.00761 | PASS |
| | | | | | -20 | -19.24038 | -0.00727 | PASS |
| | | | | | -10 | -22.00127 | -0.00832 | PASS |
| | | | | | 0 | -20.28465 | -0.00767 | PASS |
| | | | | | 10 | -19.76967 | -0.00747 | PASS |
| | | | | | 20 | -23.40317 | -0.00885 | PASS |
| | | | | | 30 | -21.54350 | -0.00814 | PASS |
| | | | | | 40 | -18.52512 | -0.00700 | PASS |
| | | | | | 50 | -20.61367 | -0.00779 | PASS |

END


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