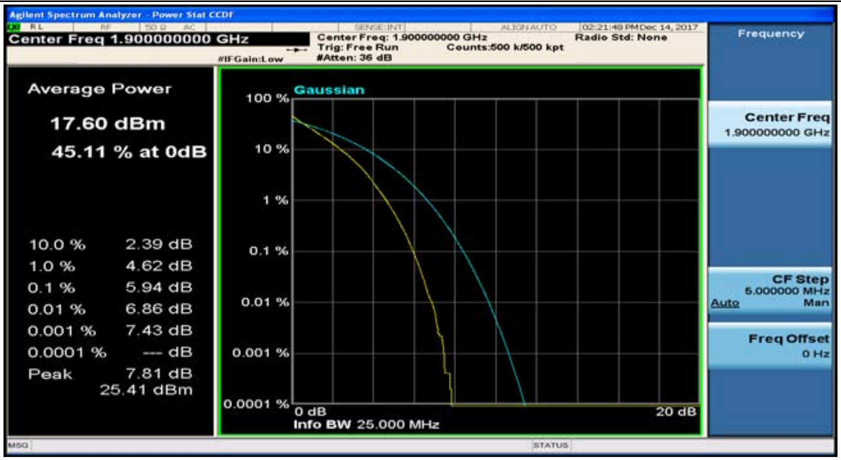

Agilent Spectrum Analyzer - Power Stat CCDF
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
MSG
STATUS

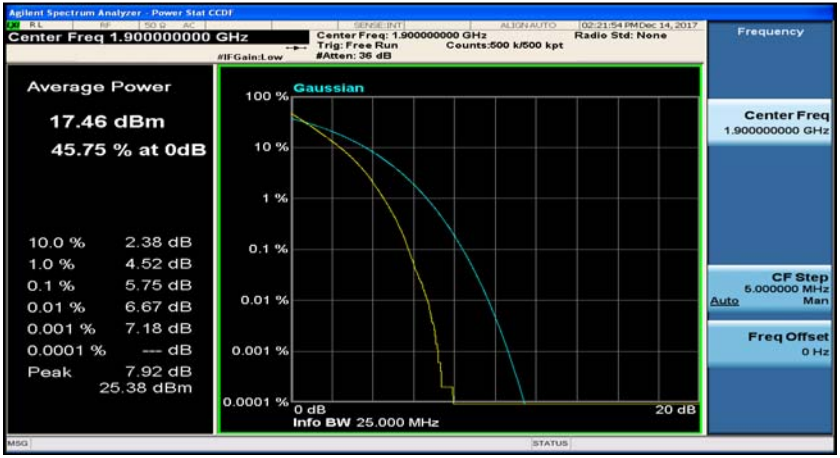
Center Freq 1.900000000 GHz
Center Freq: 1.900000000 GHz
Trig: Free Run
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
#Atten: 36 dB

Average Power
17.60 dBm
45.11 % at 0dB

10.0 %	2.39 dB
1.0 %	4.62 dB
0.1 %	5.94 dB
0.01 %	6.86 dB
0.001 %	7.43 dB
0.0001 %	--- dB
Peak	7.81 dB 25.41 dBm

Info BW 25.000 MHz

(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50


Agilent Spectrum Analyzer - Power Stat CCDF
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
MSG
STATUS

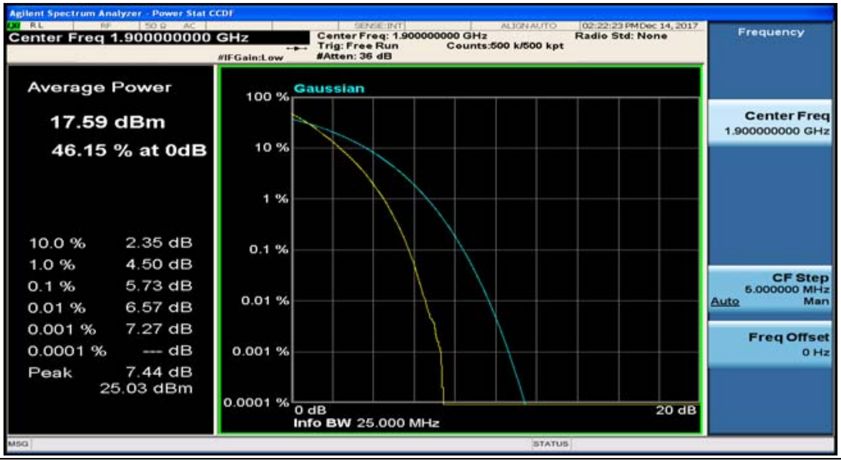
Center Freq 1.900000000 GHz
Center Freq: 1.900000000 GHz
Trig: Free Run
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
#Atten: 36 dB

Average Power
17.46 dBm
45.75 % at 0dB

10.0 %	2.38 dB
1.0 %	4.52 dB
0.1 %	5.75 dB
0.01 %	6.67 dB
0.001 %	7.18 dB
0.0001 %	--- dB
Peak	7.92 dB 25.38 dBm

Info BW 25.000 MHz

(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0


Agilent Spectrum Analyzer - Power Stat CCDF
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
MSG
STATUS

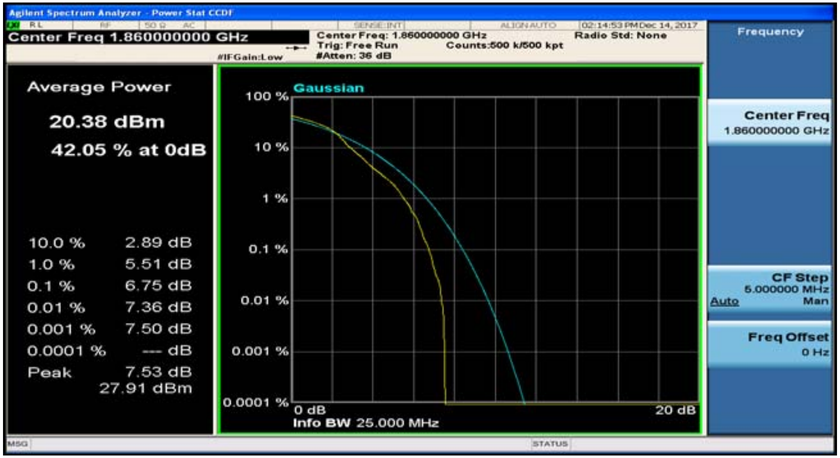
Center Freq 1.900000000 GHz
Center Freq: 1.900000000 GHz
Trig: Free Run
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
#Atten: 36 dB

Average Power
17.59 dBm
46.15 % at 0dB

10.0 %	2.35 dB
1.0 %	4.50 dB
0.1 %	5.73 dB
0.01 %	6.57 dB
0.001 %	7.27 dB
0.0001 %	--- dB
Peak	7.44 dB 25.03 dBm

Info BW 25.000 MHz

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



Agilent Spectrum Analyzer - Power Stat CCDF

02:14:53 PM Dec 14, 2017

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low

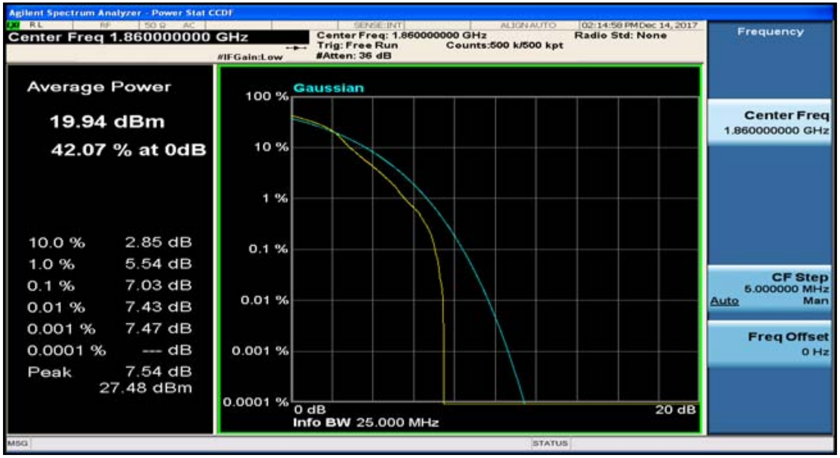
Average Power
20.38 dBm
42.05 % at 0dB

```
10.0 %      2.89 dB
1.0 %       5.51 dB
0.1 %       6.75 dB
0.01 %      7.36 dB
0.001 %     7.50 dB
0.0001 %     --- dB
Peak        7.53 dB
          27.91 dBm
```

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.860000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49



Agilent Spectrum Analyzer - Power Stat CCDF

02:14:58 PM Dec 14, 2017

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low

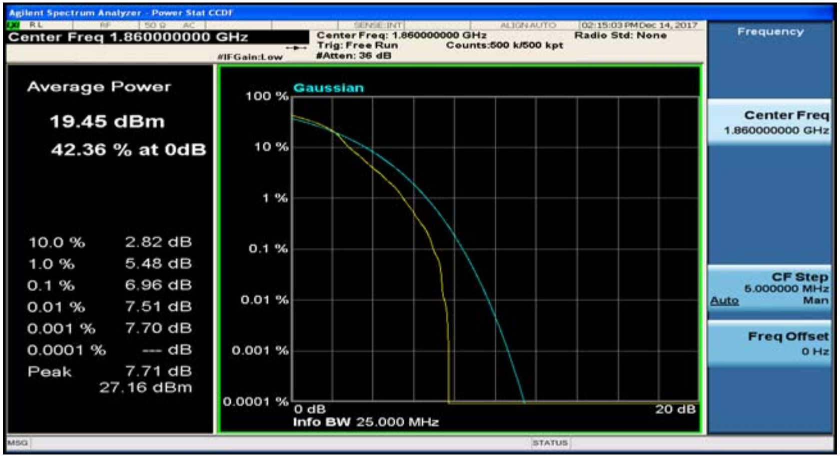
Average Power
19.94 dBm
42.07 % at 0dB

```
10.0 %      2.85 dB
1.0 %       5.54 dB
0.1 %       7.03 dB
0.01 %      7.43 dB
0.001 %     7.47 dB
0.0001 %     --- dB
Peak        7.54 dB
          27.48 dBm
```

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.860000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99



Agilent Spectrum Analyzer - Power Stat CCDF

02:15:03 PM Dec 14, 2017

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low

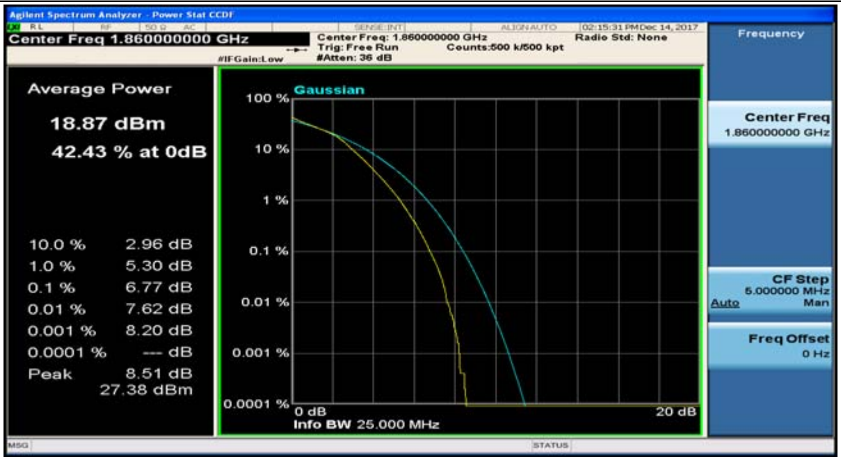
Average Power
19.45 dBm
42.36 % at 0dB

```
10.0 %      2.82 dB
1.0 %       5.48 dB
0.1 %       6.96 dB
0.01 %      7.51 dB
0.001 %     7.70 dB
0.0001 %     --- dB
Peak        7.71 dB
          27.16 dBm
```

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.860000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#0



Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
02:15:31 PM Dec 14, 2017

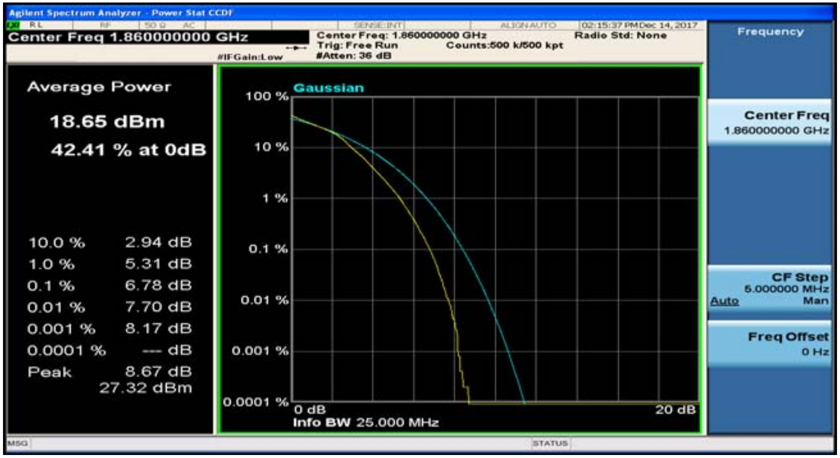
Average Power
18.87 dBm
42.43 % at 0dB

10.0 %	2.96 dB
1.0 %	5.30 dB
0.1 %	6.77 dB
0.01 %	7.62 dB
0.001 %	8.20 dB
0.0001 %	--- dB
Peak	8.51 dB 27.38 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.860000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#25



Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
02:15:37 PM Dec 14, 2017

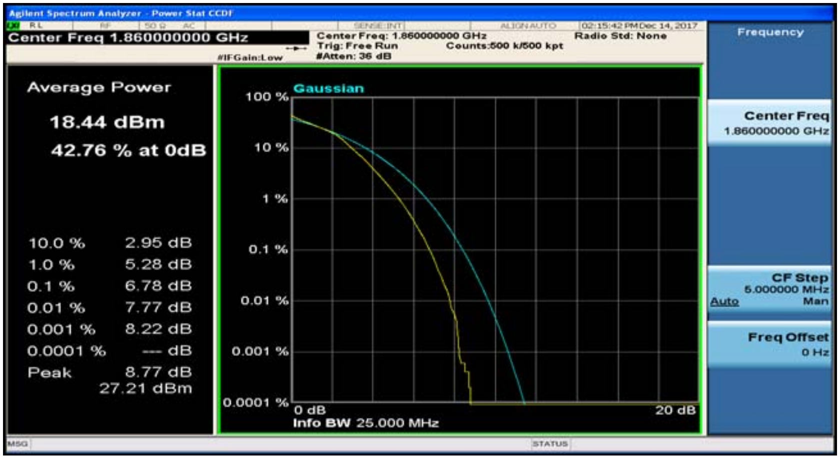
Average Power
18.65 dBm
42.41 % at 0dB

10.0 %	2.94 dB
1.0 %	5.31 dB
0.1 %	6.78 dB
0.01 %	7.70 dB
0.001 %	8.17 dB
0.0001 %	--- dB
Peak	8.67 dB 27.32 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.860000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#50



Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
02:15:42 PM Dec 14, 2017

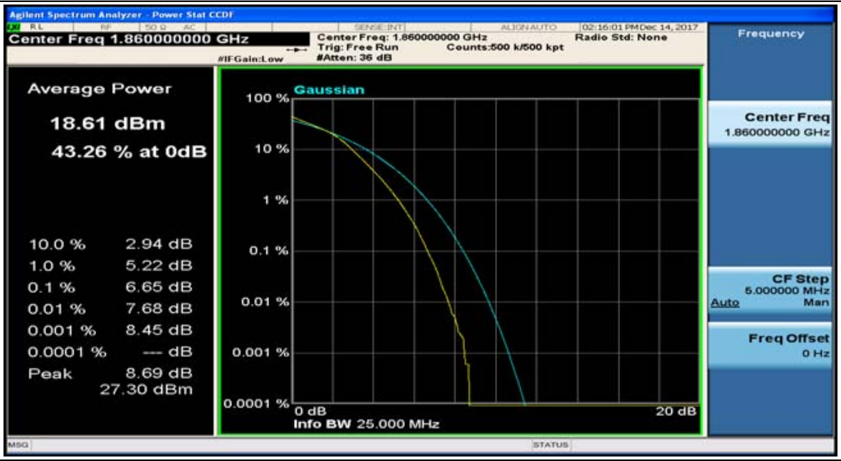
Average Power
18.44 dBm
42.76 % at 0dB

10.0 %	2.95 dB
1.0 %	5.28 dB
0.1 %	6.78 dB
0.01 %	7.77 dB
0.001 %	8.22 dB
0.0001 %	--- dB
Peak	8.77 dB 27.21 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.860000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0



Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
02:16:01 PM Dec 14, 2017

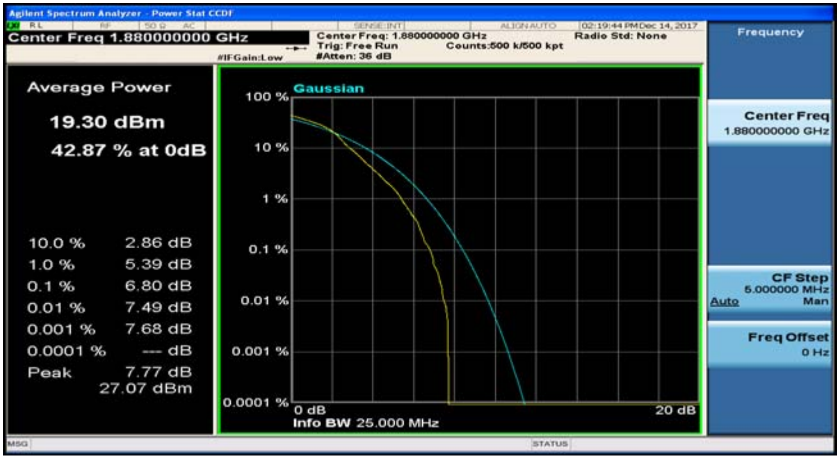
Average Power
18.61 dBm
43.26 % at 0dB

10.0 %	2.94 dB
1.0 %	5.22 dB
0.1 %	6.65 dB
0.01 %	7.68 dB
0.001 %	8.45 dB
0.0001 %	--- dB
Peak	8.69 dB
	27.30 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.860000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0



Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
02:19:44 PM Dec 14, 2017

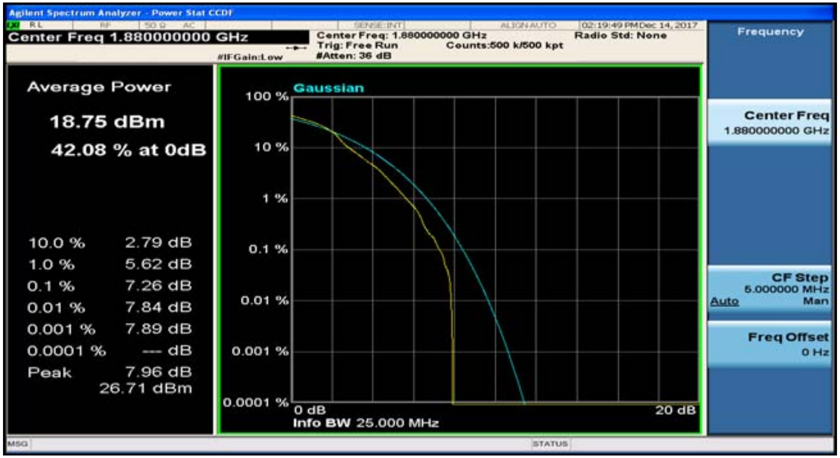
Average Power
19.30 dBm
42.87 % at 0dB

10.0 %	2.86 dB
1.0 %	5.39 dB
0.1 %	6.80 dB
0.01 %	7.49 dB
0.001 %	7.68 dB
0.0001 %	--- dB
Peak	7.77 dB
	27.07 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49



Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low
02:19:49 PM Dec 14, 2017

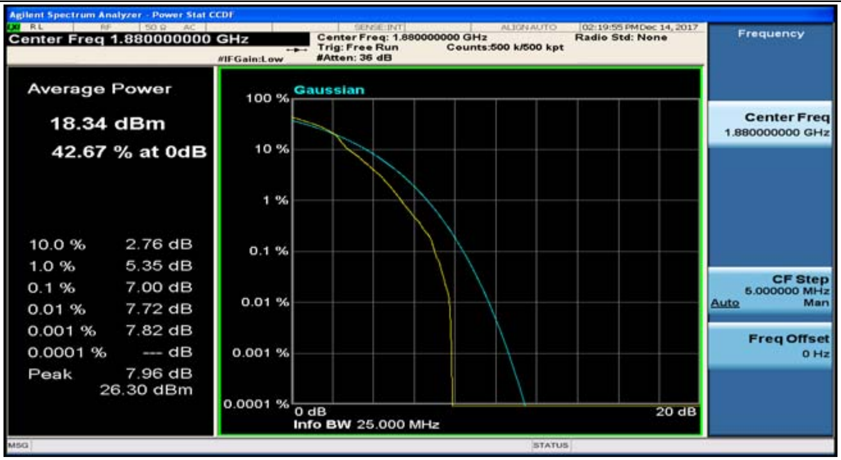
Average Power
18.75 dBm
42.08 % at 0dB

10.0 %	2.79 dB
1.0 %	5.62 dB
0.1 %	7.26 dB
0.01 %	7.84 dB
0.001 %	7.89 dB
0.0001 %	--- dB
Peak	7.96 dB
	26.71 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99


Agilent Spectrum Analyzer - Power Stat CCDF

02:19:55 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low

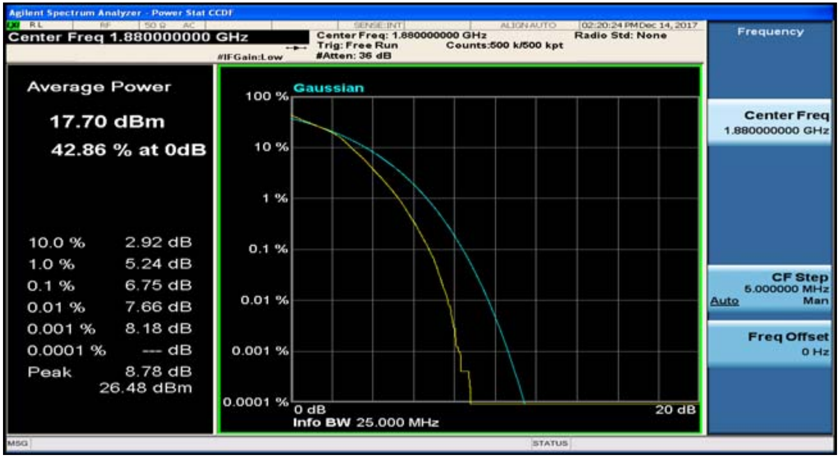
Average Power
18.34 dBm
42.67 % at 0dB

10.0 % 2.76 dB
1.0 % 5.35 dB
0.1 % 7.00 dB
0.01 % 7.72 dB
0.001 % 7.82 dB
0.0001 % --- dB
Peak 7.96 dB
26.30 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#0


Agilent Spectrum Analyzer - Power Stat CCDF

02:20:24 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low

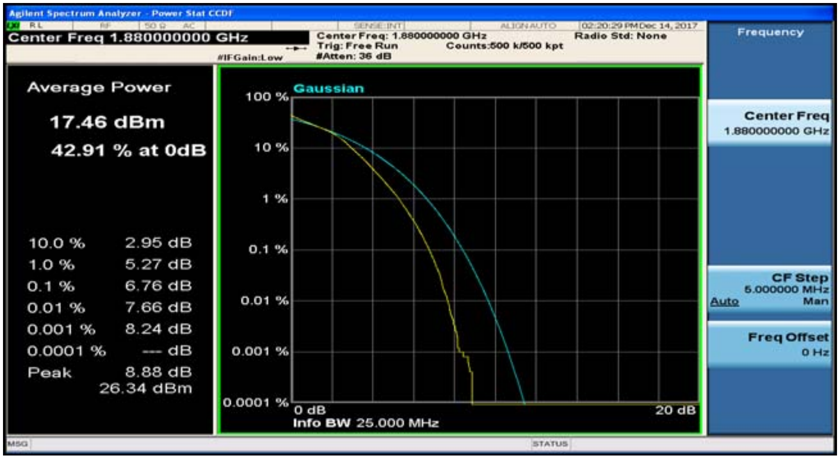
Average Power
17.70 dBm
42.86 % at 0dB

10.0 % 2.92 dB
1.0 % 5.24 dB
0.1 % 6.75 dB
0.01 % 7.66 dB
0.001 % 8.18 dB
0.0001 % --- dB
Peak 8.78 dB
26.48 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#25


Agilent Spectrum Analyzer - Power Stat CCDF

02:20:29 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
#IFGain:Low

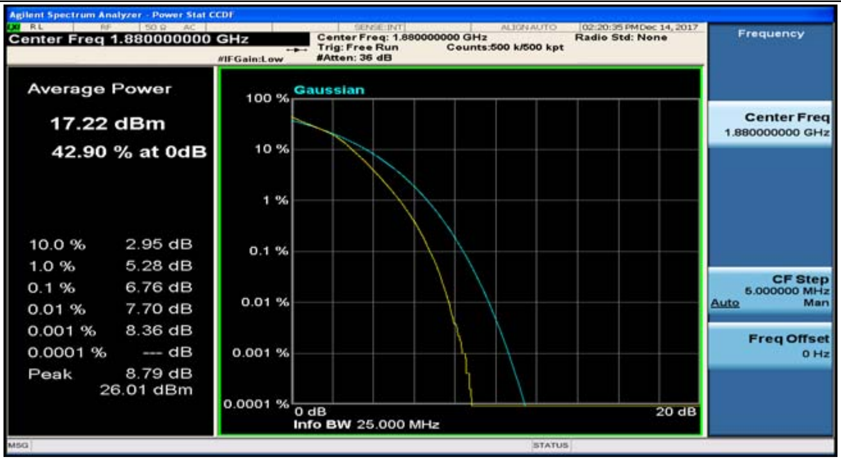
Average Power
17.46 dBm
42.91 % at 0dB

10.0 % 2.95 dB
1.0 % 5.27 dB
0.1 % 6.76 dB
0.01 % 7.66 dB
0.001 % 8.24 dB
0.0001 % --- dB
Peak 8.88 dB
26.34 dBm

Info BW 25.000 MHz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#50


Agilent Spectrum Analyzer - Power Stat CCDF
02:20:35 PM Dec 14, 2017
Center Freq 1.880000000 GHz
Center Freq: 1.880000000 GHz
Trig: Free Run
Counts:500 k/500 kpt
#Atten: 36 dB
#IFGain:Low
Radio Std: None

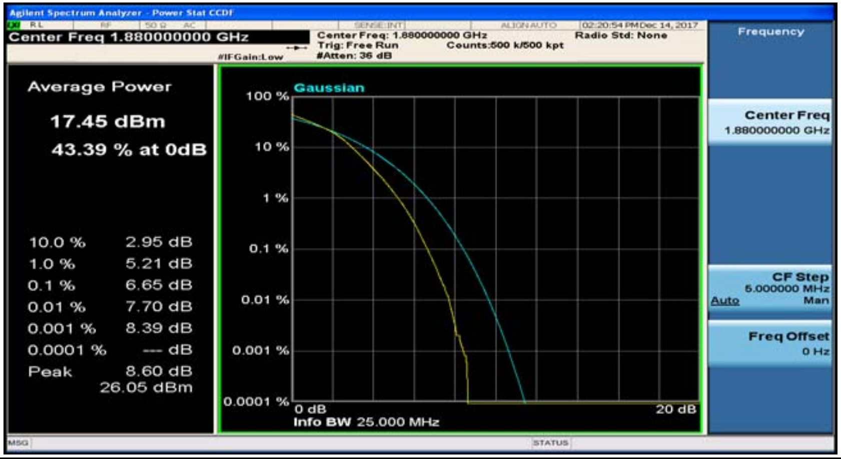
Average Power
17.22 dBm
42.90 % at 0dB

10.0 %	2.95 dB
1.0 %	5.28 dB
0.1 %	6.76 dB
0.01 %	7.70 dB
0.001 %	8.36 dB
0.0001 %	--- dB
Peak	8.79 dB 26.01 dBm

Info BW 25.000 MHz

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0


Agilent Spectrum Analyzer - Power Stat CCDF
02:20:54 PM Dec 14, 2017
Center Freq 1.880000000 GHz
Center Freq: 1.880000000 GHz
Trig: Free Run
Counts:500 k/500 kpt
#Atten: 36 dB
#IFGain:Low
Radio Std: None

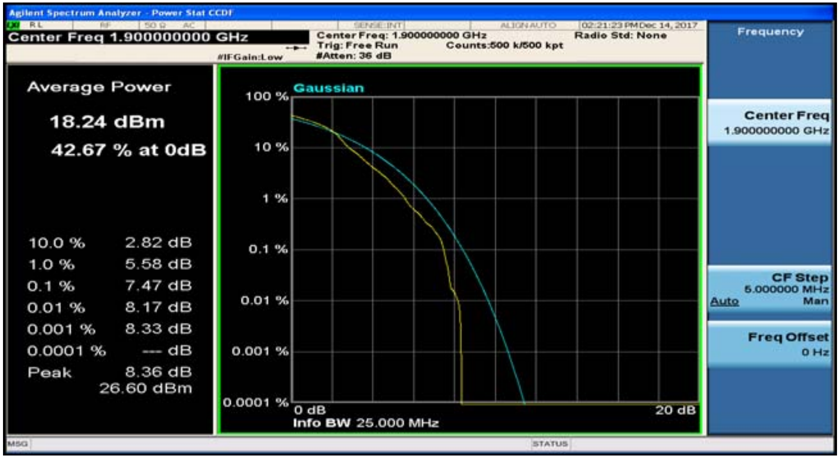
Average Power
17.45 dBm
43.39 % at 0dB

10.0 %	2.95 dB
1.0 %	5.21 dB
0.1 %	6.65 dB
0.01 %	7.70 dB
0.001 %	8.39 dB
0.0001 %	--- dB
Peak	8.60 dB 26.05 dBm

Info BW 25.000 MHz

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.880000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0


Agilent Spectrum Analyzer - Power Stat CCDF
02:21:23 PM Dec 14, 2017
Center Freq 1.900000000 GHz
Center Freq: 1.900000000 GHz
Trig: Free Run
Counts:500 k/500 kpt
#Atten: 36 dB
#IFGain:Low
Radio Std: None

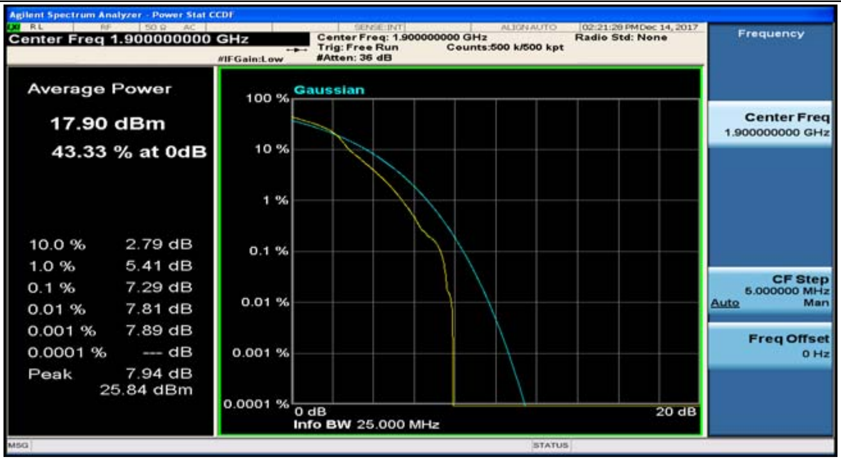
Average Power
18.24 dBm
42.67 % at 0dB

10.0 %	2.82 dB
1.0 %	5.58 dB
0.1 %	7.47 dB
0.01 %	8.17 dB
0.001 %	8.33 dB
0.0001 %	--- dB
Peak	8.36 dB 26.60 dBm

Info BW 25.000 MHz

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49


Agilent Spectrum Analyzer - Power Stat CCDF
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

02:21:29 PM Dec 14, 2017

Center Freq 1.900000000 GHz

Center Freq: 1.900000000 GHz

Trig: Free Run

Counts:500 k/500 kpt

#Atten: 36 dB

Radio Std: None

#IFGain:Low

Average Power

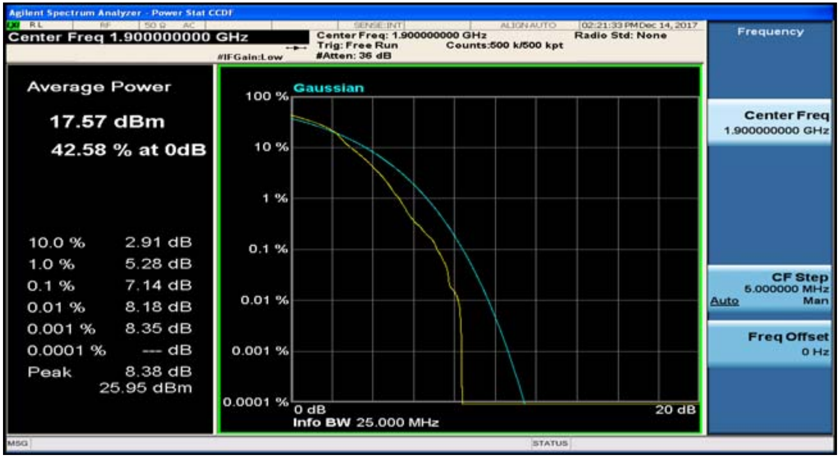
17.90 dBm

43.33 % at 0dB

10.0 %	2.79 dB
1.0 %	5.41 dB
0.1 %	7.29 dB
0.01 %	7.81 dB
0.001 %	7.89 dB
0.0001 %	--- dB
Peak	7.94 dB 25.84 dBm

Info BW 25.000 MHz

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99


Agilent Spectrum Analyzer - Power Stat CCDF
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

02:21:33 PM Dec 14, 2017

Center Freq 1.900000000 GHz

Center Freq: 1.900000000 GHz

Trig: Free Run

Counts:500 k/500 kpt

#Atten: 36 dB

Radio Std: None

#IFGain:Low

Average Power

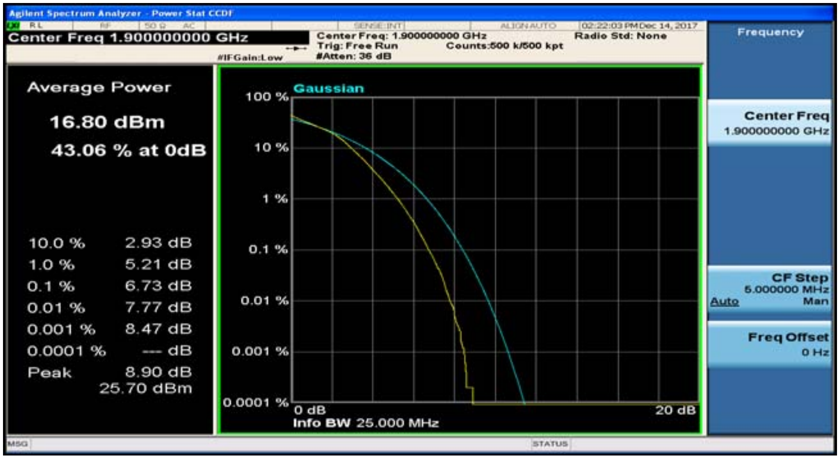
17.57 dBm

42.58 % at 0dB

10.0 %	2.91 dB
1.0 %	5.28 dB
0.1 %	7.14 dB
0.01 %	8.18 dB
0.001 %	8.35 dB
0.0001 %	--- dB
Peak	8.38 dB 25.95 dBm

Info BW 25.000 MHz

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0


Agilent Spectrum Analyzer - Power Stat CCDF
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

02:22:03 PM Dec 14, 2017

Center Freq 1.900000000 GHz

Center Freq: 1.900000000 GHz

Trig: Free Run

Counts:500 k/500 kpt

#Atten: 36 dB

Radio Std: None

#IFGain:Low

Average Power

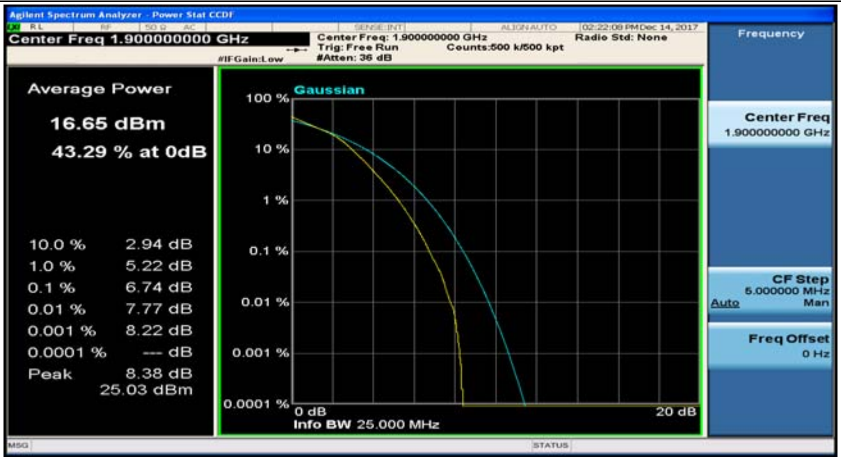
16.80 dBm

43.06 % at 0dB

10.0 %	2.93 dB
1.0 %	5.21 dB
0.1 %	6.73 dB
0.01 %	7.77 dB
0.001 %	8.47 dB
0.0001 %	--- dB
Peak	8.90 dB 25.70 dBm

Info BW 25.000 MHz

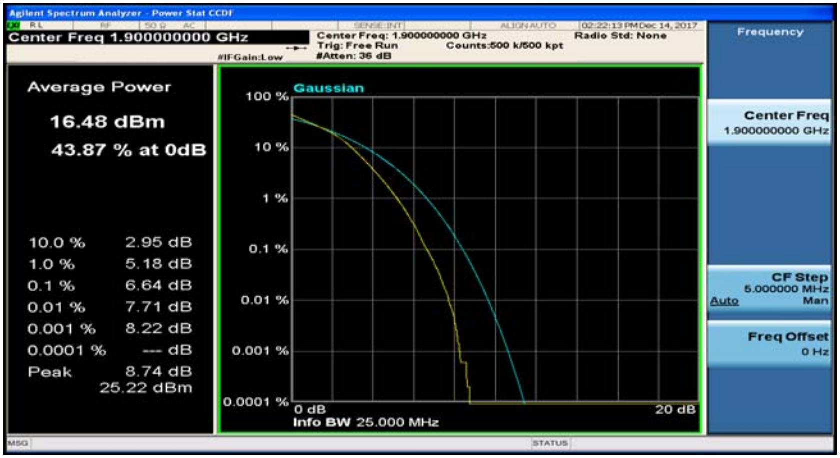
(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25



```
Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.900000000 GHz     Center Freq: 1.900000000 GHz     Radio Std: None     02:22:08 PM Dec 14, 2017
                                Trig: Free Run   Counts:500 k/500 kpt
#IFGain:Low                     #Atten: 36 dB

Average Power
16.65 dBm
43.29 % at 0dB

10.0 %      2.94 dB
1.0 %       5.22 dB
0.1 %       6.74 dB
0.01 %      7.77 dB
0.001 %     8.22 dB
0.0001 %    --- dB
Peak        8.38 dB
           25.03 dBm

Info BW 25.000 MHz
```

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

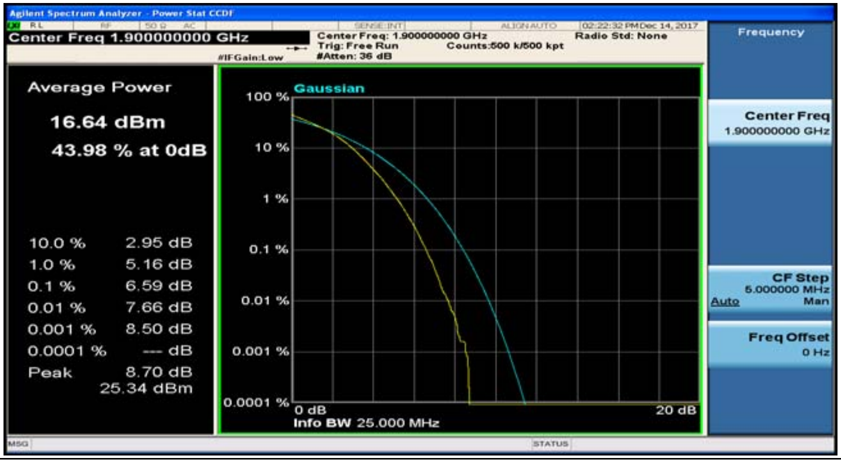
(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#50



```
Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.900000000 GHz     Center Freq: 1.900000000 GHz     Radio Std: None     02:22:13 PM Dec 14, 2017
                                Trig: Free Run   Counts:500 k/500 kpt
#IFGain:Low                     #Atten: 36 dB

Average Power
16.48 dBm
43.87 % at 0dB

10.0 %      2.95 dB
1.0 %       5.18 dB
0.1 %       6.64 dB
0.01 %      7.71 dB
0.001 %     8.22 dB
0.0001 %    --- dB
Peak        8.74 dB
           25.22 dBm

Info BW 25.000 MHz
```

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0



```
Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.900000000 GHz     Center Freq: 1.900000000 GHz     Radio Std: None     02:22:32 PM Dec 14, 2017
                                Trig: Free Run   Counts:500 k/500 kpt
#IFGain:Low                     #Atten: 36 dB

Average Power
16.64 dBm
43.98 % at 0dB

10.0 %      2.95 dB
1.0 %       5.16 dB
0.1 %       6.59 dB
0.01 %      7.66 dB
0.001 %     8.50 dB
0.0001 %    --- dB
Peak        8.70 dB
           25.34 dBm

Info BW 25.000 MHz
```

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Frequency
Center Freq
1.900000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0793	1.219	PASS
	MCH	6	0	1.0783	1.228	PASS
	HCH	6	0	1.0774	1.216	PASS
16QAM	LCH	6	0	1.0782	1.231	PASS
	MCH	6	0	1.0798	1.219	PASS
	HCH	6	0	1.0806	1.222	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6846	2.880	PASS
	MCH	15	0	2.6830	2.899	PASS
	HCH	15	0	2.6831	2.866	PASS
16QAM	LCH	15	0	2.6807	2.867	PASS
	MCH	15	0	2.6790	2.867	PASS
	HCH	15	0	2.6866	2.871	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4862	4.813	PASS
	MCH	25	0	4.4803	4.831	PASS
	HCH	25	0	4.4742	4.834	PASS
16QAM	LCH	25	0	4.4713	4.849	PASS
	MCH	25	0	4.4849	4.804	PASS
	HCH	25	0	4.4783	4.777	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9388	9.548	PASS
	MCH	50	0	8.9354	9.433	PASS
	HCH	50	0	8.9233	9.383	PASS
16QAM	LCH	50	0	8.9353	9.470	PASS
	MCH	50	0	8.9153	9.428	PASS
	HCH	50	0	8.9069	9.387	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.392	14.09	PASS
	MCH	75	0	13.415	14.07	PASS
	HCH	75	0	13.359	13.97	PASS
16QAM	LCH	75	0	13.386	14.03	PASS
	MCH	75	0	13.398	14.09	PASS
	HCH	75	0	13.355	14.00	PASS

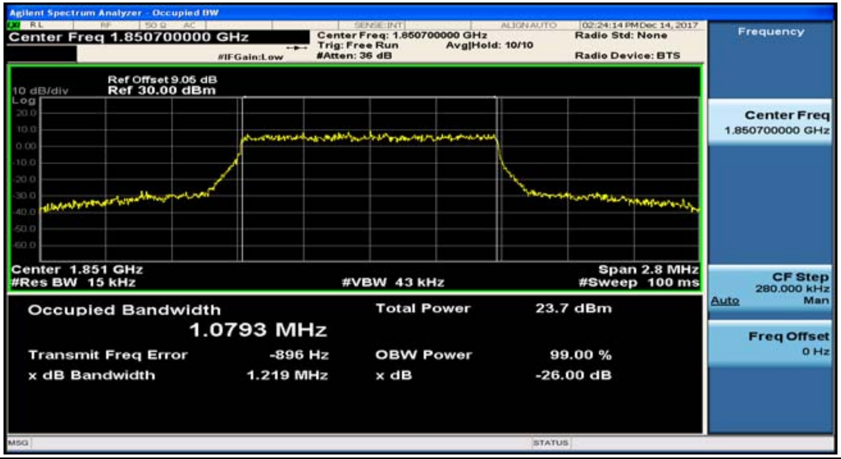
Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.845	18.58	PASS
	MCH	100	0	17.857	18.62	PASS
	HCH	100	0	17.801	18.56	PASS
16QAM	LCH	100	0	17.848	18.60	PASS
	MCH	100	0	17.852	18.63	PASS
	HCH	100	0	17.818	18.56	PASS

Test Graphs

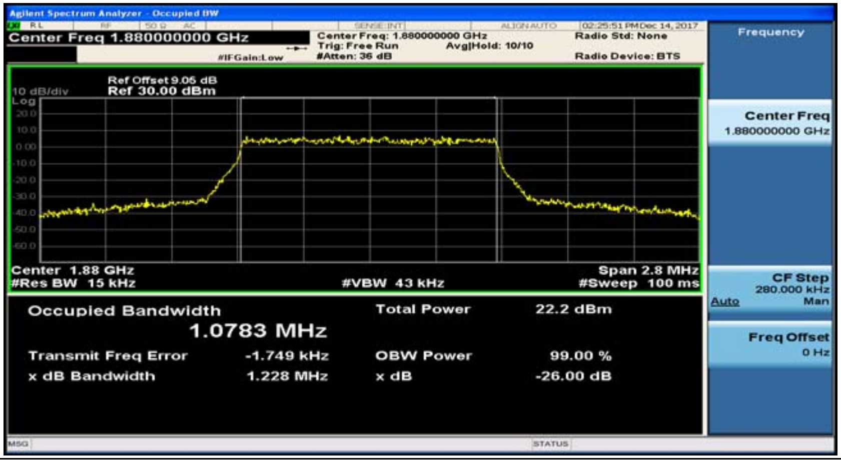
Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
02:24:14 PM Dec 14, 2017
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.850700000 GHz
CF Step
280.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

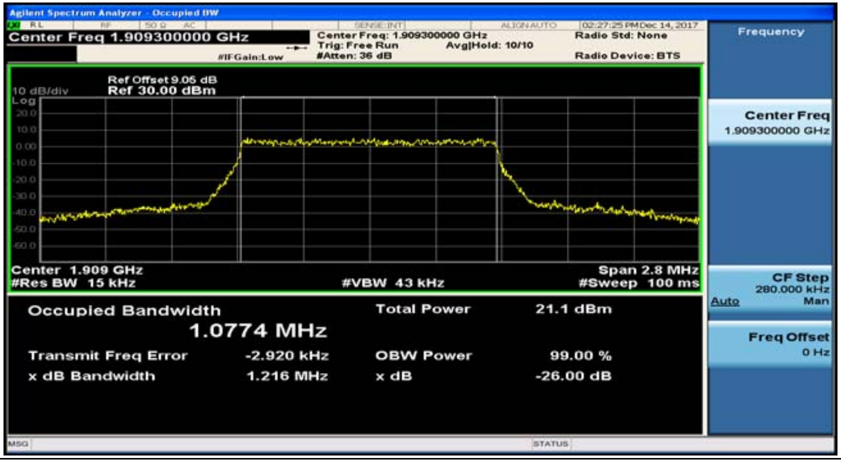
```
Center Freq 1.850700000 GHz        Center Freq: 1.850700000 GHz              Radio Std: None
                                    Trig: Free Run        Avg|Hold: 10/10
                    #IFGain:Low     #Atten: 36 dB                            Radio Device: BTS

            Ref Offset 9.05 dB
10 dB/div   Ref 30.00 dBm

Center  1.851 GHz                                                      Span 2.8 MHz
#Res BW  15 kHz                    #VBW  43 kHz                     #Sweep  100 ms

  Occupied Bandwidth                        Total Power         23.7 dBm
                  1.0793 MHz
  Transmit Freq Error        -896 Hz        OBW Power           99.00 %
  x dB Bandwidth            1.219 MHz       x dB               -26.00 dB
```

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
02:25:51 PM Dec 14, 2017
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
280.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

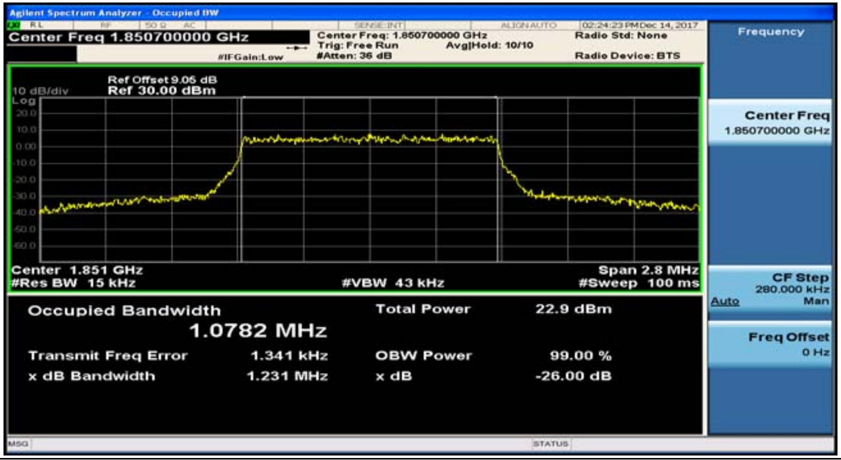
```
Center Freq 1.880000000 GHz        Center Freq: 1.880000000 GHz              Radio Std: None
                                    Trig: Free Run        Avg|Hold: 10/10
                    #IFGain:Low     #Atten: 36 dB                            Radio Device: BTS

            Ref Offset 9.05 dB
10 dB/div   Ref 30.00 dBm

Center  1.88 GHz                                                       Span 2.8 MHz
#Res BW  15 kHz                    #VBW  43 kHz                     #Sweep  100 ms

  Occupied Bandwidth                        Total Power         22.2 dBm
                  1.0783 MHz
  Transmit Freq Error      -1.749 kHz       OBW Power           99.00 %
  x dB Bandwidth            1.228 MHz       x dB               -26.00 dB
```

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
02:27:25 PM Dec 14, 2017
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.909300000 GHz
CF Step
280.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

```
Center Freq 1.909300000 GHz        Center Freq: 1.909300000 GHz              Radio Std: None
                                    Trig: Free Run        Avg|Hold: 10/10
                    #IFGain:Low     #Atten: 36 dB                            Radio Device: BTS

            Ref Offset 9.05 dB
10 dB/div   Ref 30.00 dBm

Center  1.909 GHz                                                      Span 2.8 MHz
#Res BW  15 kHz                    #VBW  43 kHz                     #Sweep  100 ms

  Occupied Bandwidth                        Total Power         21.1 dBm
                  1.0774 MHz
  Transmit Freq Error      -2.920 kHz       OBW Power           99.00 %
  x dB Bandwidth            1.216 MHz       x dB               -26.00 dB
```

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0


Agilent Spectrum Analyzer - Occupied BW

02:24:23 PM Dec 14, 2017

Center Freq 1.850700000 GHz

Center Freq: 1.850700000 GHz

Trig: Free Run Avg|Hold: 10/10

#Atten: 36 dB

#IFGain:Low

Radio Std: None

Radio Device: BTS

Ref Offset 9.05 dB

Ref 30.00 dBm

Center 1.851 GHz

#Res BW 15 kHz

#VBW 43 kHz

Span 2.8 MHz

#Sweep 100 ms

Occupied Bandwidth

1.0782 MHz

Total Power 22.9 dBm

Transmit Freq Error 1.341 kHz

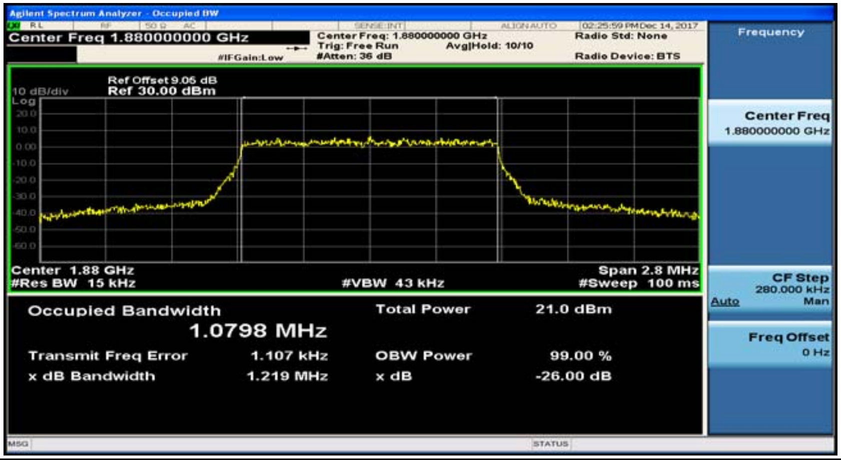
OBW Power 99.00 %

x dB Bandwidth 1.231 MHz

x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.850700000 GHz
CF Step
280.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0


Agilent Spectrum Analyzer - Occupied BW

02:25:59 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz

Trig: Free Run Avg|Hold: 10/10

#Atten: 36 dB

#IFGain:Low

Radio Std: None

Radio Device: BTS

Ref Offset 9.05 dB

Ref 30.00 dBm

Center 1.88 GHz

#Res BW 15 kHz

#VBW 43 kHz

Span 2.8 MHz

#Sweep 100 ms

Occupied Bandwidth

1.0798 MHz

Total Power 21.0 dBm

Transmit Freq Error 1.107 kHz

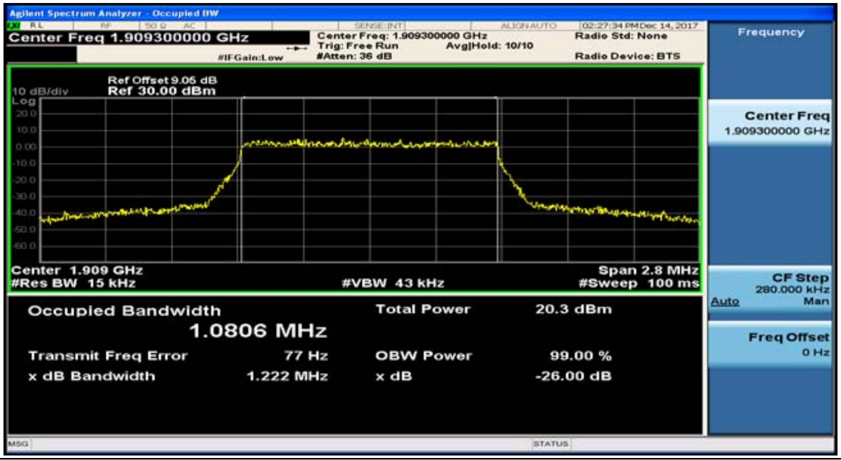
OBW Power 99.00 %

x dB Bandwidth 1.219 MHz

x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
280.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0


Agilent Spectrum Analyzer - Occupied BW

02:27:34 PM Dec 14, 2017

Center Freq 1.909300000 GHz

Center Freq: 1.909300000 GHz

Trig: Free Run Avg|Hold: 10/10

#Atten: 36 dB

#IFGain:Low

Radio Std: None

Radio Device: BTS

Ref Offset 9.05 dB

Ref 30.00 dBm

Center 1.909 GHz

#Res BW 15 kHz

#VBW 43 kHz

Span 2.8 MHz

#Sweep 100 ms

Occupied Bandwidth

1.0806 MHz

Total Power 20.3 dBm

Transmit Freq Error 77 Hz

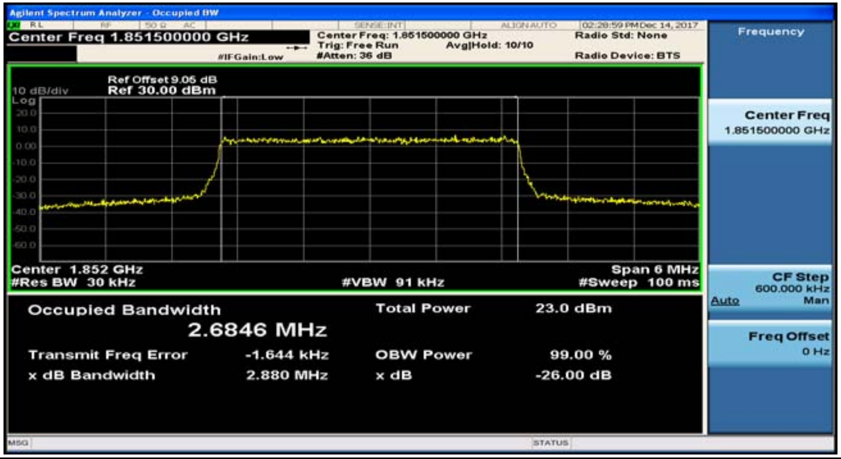
OBW Power 99.00 %

x dB Bandwidth 1.222 MHz

x dB -26.00 dB

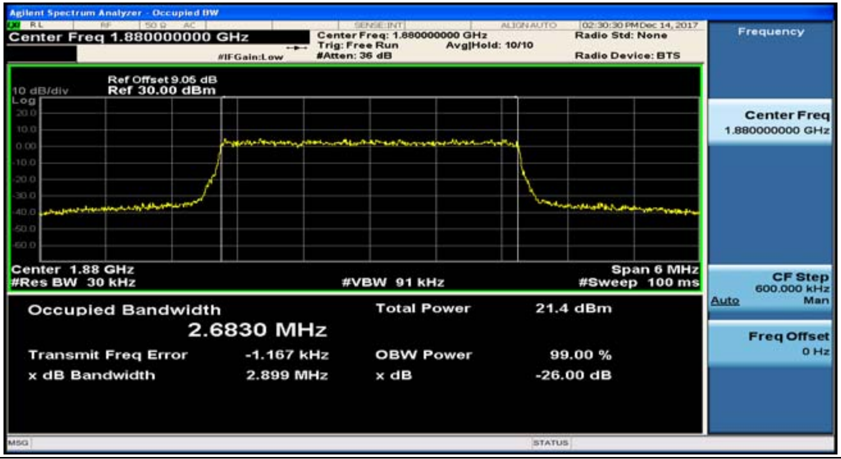
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.909300000 GHz
CF Step
280.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0


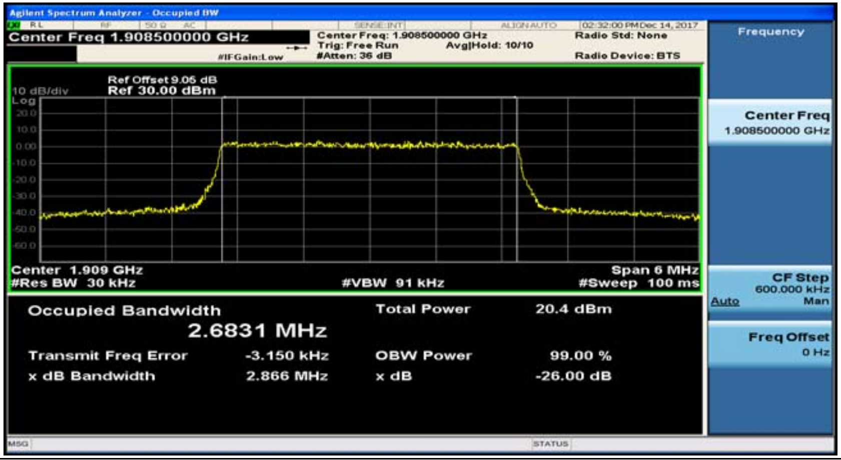
Agilent Spectrum Analyzer - Occupied BW
RL | RF | 50 Ω | AC | SENSE:INT | ALIGN AUTO | 02:28:59 PM Dec 14, 2017
Center Freq 1.851500000 GHz
#IFGain:Low
Center Freq: 1.851500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Center 1.852 GHz Span 6 MHz
#Res BW 30 kHz #VBW 91 kHz #Sweep 100 ms
Occupied Bandwidth 2.6846 MHz
Total Power 23.0 dBm
Transmit Freq Error -1.644 kHz
OBW Power 99.00 %
x dB Bandwidth 2.880 MHz
x dB -26.00 dB

Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.851500000 GHz
CF Step
600.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0


Agilent Spectrum Analyzer - Occupied BW
RL | RF | 50 Ω | AC | SENSE:INT | ALIGN AUTO | 02:30:30 PM Dec 14, 2017
Center Freq 1.880000000 GHz
#IFGain:Low
Center Freq: 1.880000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Center 1.88 GHz Span 6 MHz
#Res BW 30 kHz #VBW 91 kHz #Sweep 100 ms
Occupied Bandwidth 2.6830 MHz
Total Power 21.4 dBm
Transmit Freq Error -1.167 kHz
OBW Power 99.00 %
x dB Bandwidth 2.899 MHz
x dB -26.00 dB

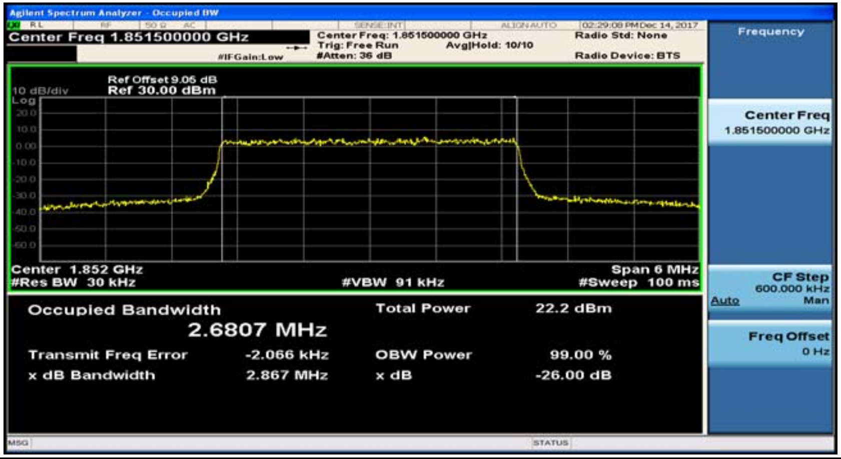
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
600.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0


Agilent Spectrum Analyzer - Occupied BW
RL | RF | 50 Ω | AC | SENSE:INT | ALIGN AUTO | 02:32:00 PM Dec 14, 2017
Center Freq 1.908500000 GHz
#IFGain:Low
Center Freq: 1.908500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Center 1.909 GHz Span 6 MHz
#Res BW 30 kHz #VBW 91 kHz #Sweep 100 ms
Occupied Bandwidth 2.6831 MHz
Total Power 20.4 dBm
Transmit Freq Error -3.150 kHz
OBW Power 99.00 %
x dB Bandwidth 2.866 MHz
x dB -26.00 dB

Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.908500000 GHz
CF Step
600.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.851500000 GHz
Center Freq: 1.851500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
02:29:08 PM Dec 14, 2017

Ref Offset 9.05 dB
Ref 30.00 dBm
10 dB/div

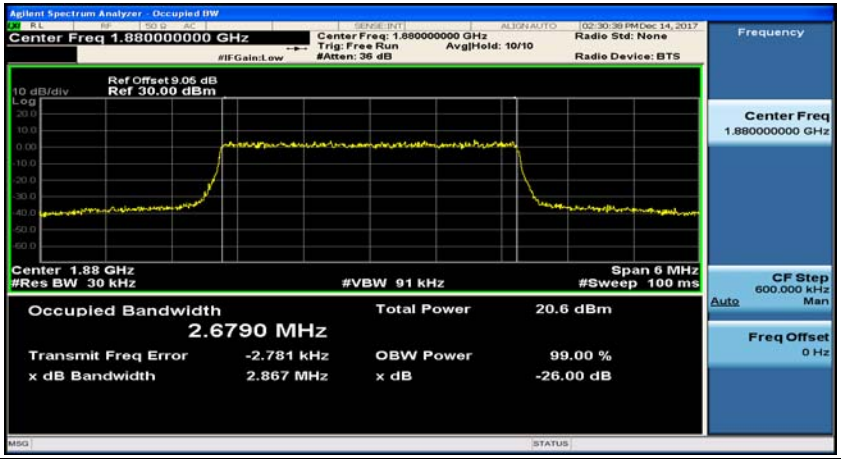
Center 1.852 GHz
#Res BW 30 kHz
#VBW 91 kHz
Span 6 MHz
#Sweep 100 ms

Occupied Bandwidth
2.6807 MHz
Total Power 22.2 dBm
Transmit Freq Error -2.066 kHz
OBW Power 99.00 %
x dB Bandwidth 2.867 MHz
x dB -26.00 dB

Center Freq 1.851500000 GHz
CF Step 600.000 kHz Auto Man
Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
MSG
STATUS

(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.880000000 GHz
Center Freq: 1.880000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
02:30:38 PM Dec 14, 2017

Ref Offset 9.05 dB
Ref 30.00 dBm
10 dB/div

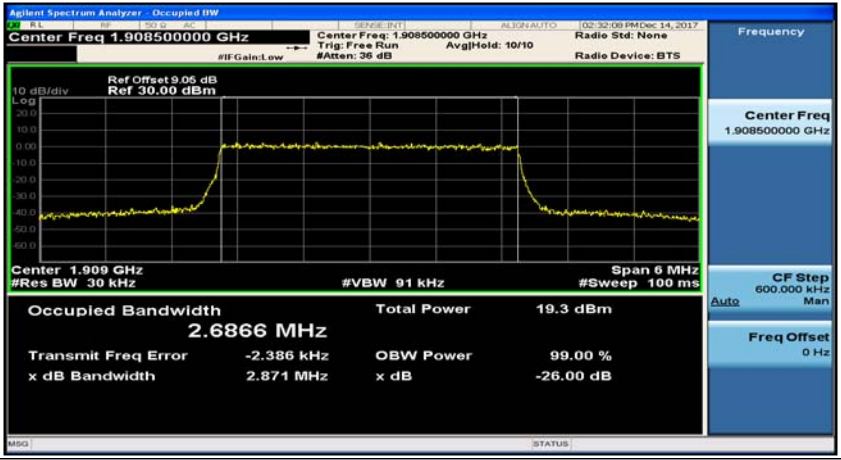
Center 1.88 GHz
#Res BW 30 kHz
#VBW 91 kHz
Span 6 MHz
#Sweep 100 ms

Occupied Bandwidth
2.6790 MHz
Total Power 20.6 dBm
Transmit Freq Error -2.781 kHz
OBW Power 99.00 %
x dB Bandwidth 2.867 MHz
x dB -26.00 dB

Center Freq 1.880000000 GHz
CF Step 600.000 kHz Auto Man
Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.908500000 GHz
Center Freq: 1.908500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
02:32:08 PM Dec 14, 2017

Ref Offset 9.05 dB
Ref 30.00 dBm
10 dB/div

Center 1.909 GHz
#Res BW 30 kHz
#VBW 91 kHz
Span 6 MHz
#Sweep 100 ms

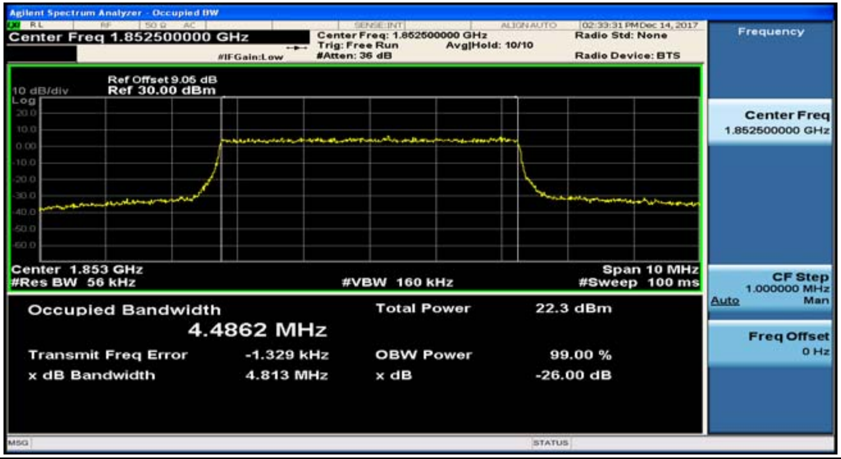
Occupied Bandwidth
2.6866 MHz
Total Power 19.3 dBm
Transmit Freq Error -2.386 kHz
OBW Power 99.00 %
x dB Bandwidth 2.871 MHz
x dB -26.00 dB

Center Freq 1.908500000 GHz
CF Step 600.000 kHz Auto Man
Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
MSG
STATUS

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



Agilent Spectrum Analyzer - Occupied BW

02:33:31 PM Dec 14, 2017

Center Freq 1.852500000 GHz

Center Freq: 1.852500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB

Radio Std: None
Radio Device: BTS

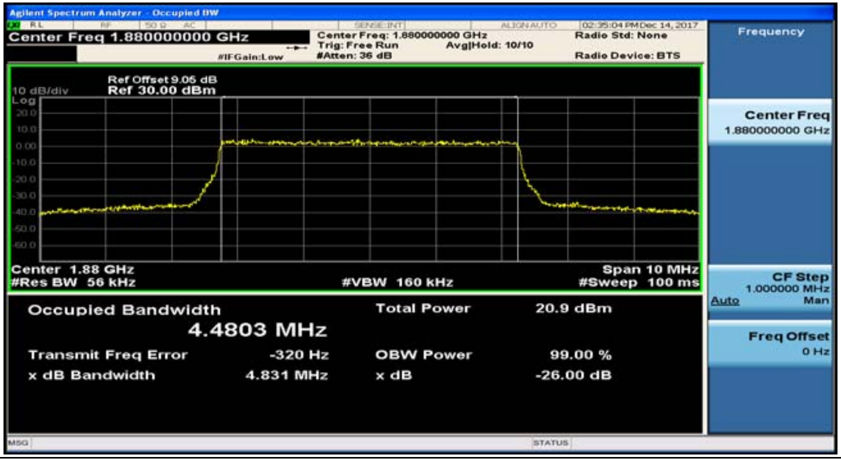
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.853 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms

Occupied Bandwidth 4.4862 MHz
Total Power 22.3 dBm
Transmit Freq Error -1.329 kHz
OBW Power 99.00 %
x dB Bandwidth 4.813 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
#IFGain:Low
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.852500000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



Agilent Spectrum Analyzer - Occupied BW

02:35:04 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB

Radio Std: None
Radio Device: BTS

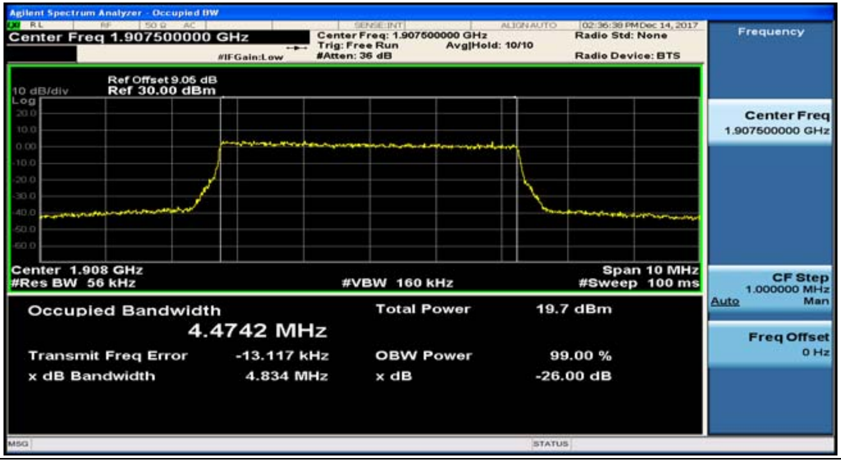
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.88 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms

Occupied Bandwidth 4.4803 MHz
Total Power 20.9 dBm
Transmit Freq Error -320 Hz
OBW Power 99.00 %
x dB Bandwidth 4.831 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
#IFGain:Low
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



Agilent Spectrum Analyzer - Occupied BW

02:36:38 PM Dec 14, 2017

Center Freq 1.907500000 GHz

Center Freq: 1.907500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB

Radio Std: None
Radio Device: BTS

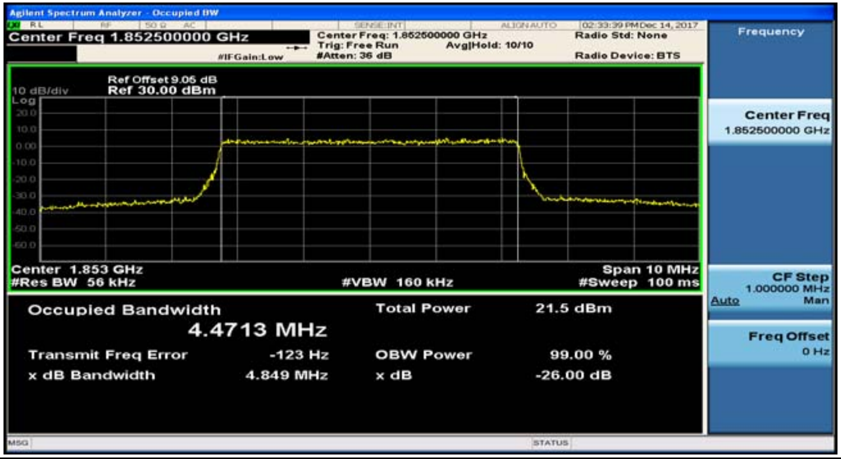
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.908 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms

Occupied Bandwidth 4.4742 MHz
Total Power 19.7 dBm
Transmit Freq Error -13.117 kHz
OBW Power 99.00 %
x dB Bandwidth 4.834 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
#IFGain:Low
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.907500000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Frequency
Center Freq
1.852500000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
MSG
STATUS

02:33:39 PM Dec 14, 2017

Center Freq 1.852500000 GHz

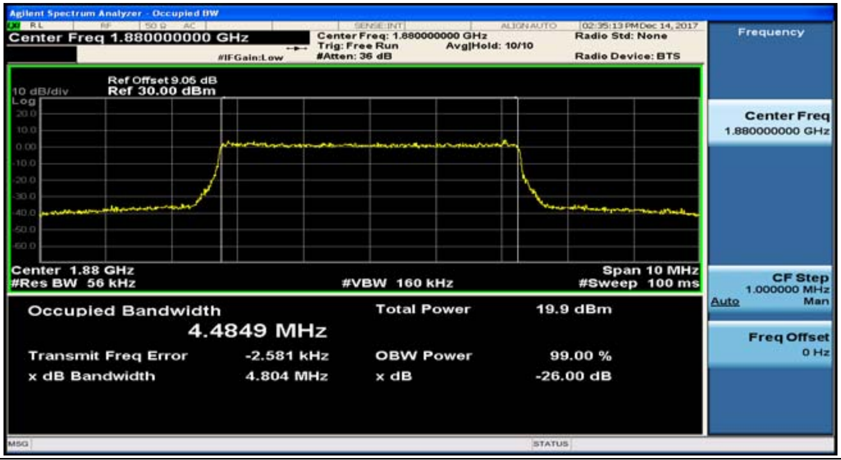
Center Freq: 1.852500000 GHz
Trig: Free Run
Avg|Hold: 10/10
#IFGain:Low
#Atten: 36 dB
Radio Std: None
Radio Device: BTS

Ref Offset 9.05 dB
10 dB/div
Ref 30.00 dBm

Center 1.853 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms

Occupied Bandwidth		Total Power	21.5 dBm
4.4713 MHz			
Transmit Freq Error	-123 Hz	OBW Power	99.00 %
x dB Bandwidth	4.849 MHz	x dB	-26.00 dB

(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Frequency
Center Freq
1.880000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
MSG
STATUS

02:35:13 PM Dec 14, 2017

Center Freq 1.880000000 GHz

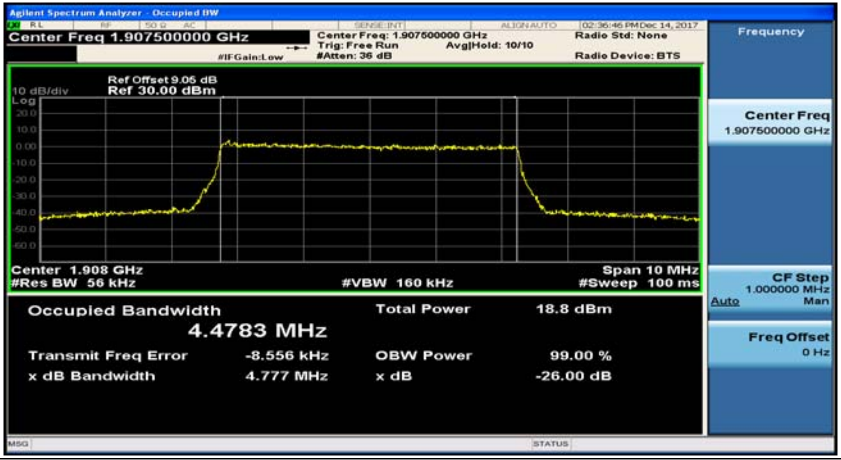
Center Freq: 1.880000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#IFGain:Low
#Atten: 36 dB
Radio Std: None
Radio Device: BTS

Ref Offset 9.05 dB
10 dB/div
Ref 30.00 dBm

Center 1.88 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms

Occupied Bandwidth		Total Power	19.9 dBm
4.4849 MHz			
Transmit Freq Error	-2.581 kHz	OBW Power	99.00 %
x dB Bandwidth	4.804 MHz	x dB	-26.00 dB

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Frequency
Center Freq
1.907500000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
MSG
STATUS

02:36:46 PM Dec 14, 2017

Center Freq 1.907500000 GHz

Center Freq: 1.907500000 GHz
Trig: Free Run
Avg|Hold: 10/10
#IFGain:Low
#Atten: 36 dB
Radio Std: None
Radio Device: BTS

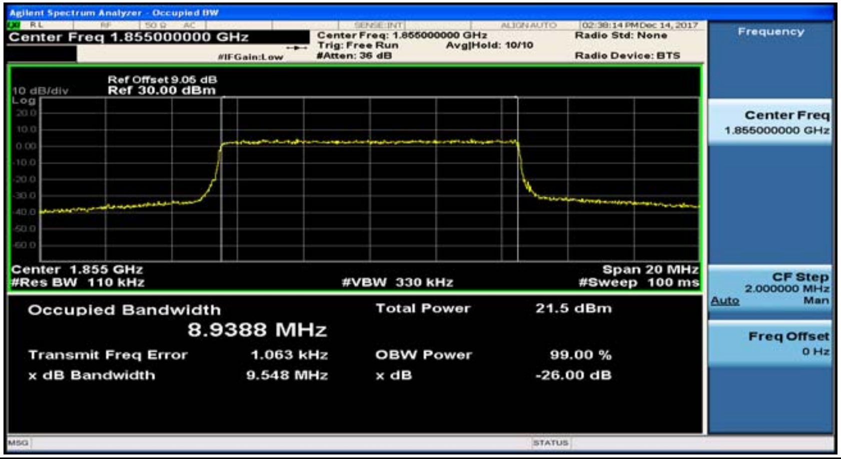
Ref Offset 9.05 dB
10 dB/div
Ref 30.00 dBm

Center 1.908 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms

Occupied Bandwidth		Total Power	18.8 dBm
4.4783 MHz			
Transmit Freq Error	-8.556 kHz	OBW Power	99.00 %
x dB Bandwidth	4.777 MHz	x dB	-26.00 dB

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



Center Freq 1.855000000 GHz

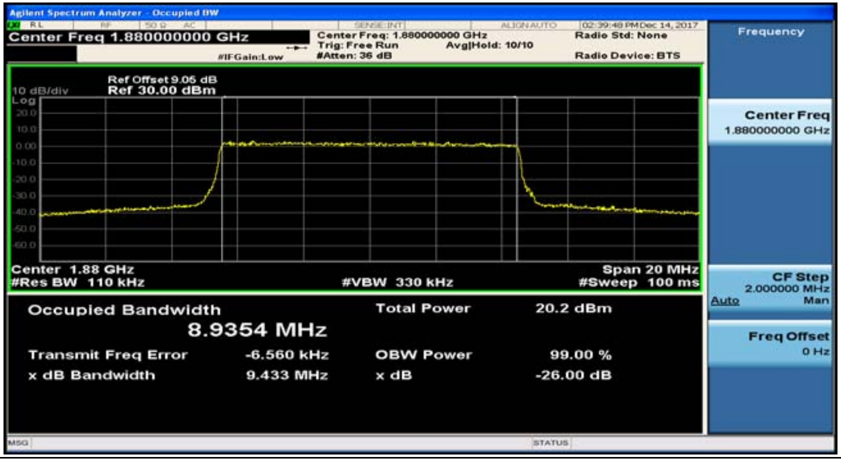
Center Freq: 1.855000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS

Center 1.855 GHz
#Res BW 110 kHz
#VBW 330 kHz
Span 20 MHz
#Sweep 100 ms

Occupied Bandwidth 8.9388 MHz
Total Power 21.5 dBm
Transmit Freq Error 1.063 kHz
OBW Power 99.00 %
x dB Bandwidth 9.548 MHz
x dB -26.00 dB

Agilent Spectrum Analyzer - Occupied BW
02:38:14 PM Dec 14, 2017
#IFGain:Low
Ref Offset 9.05 dB
Ref 30.00 dBm
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.855000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



Center Freq 1.880000000 GHz

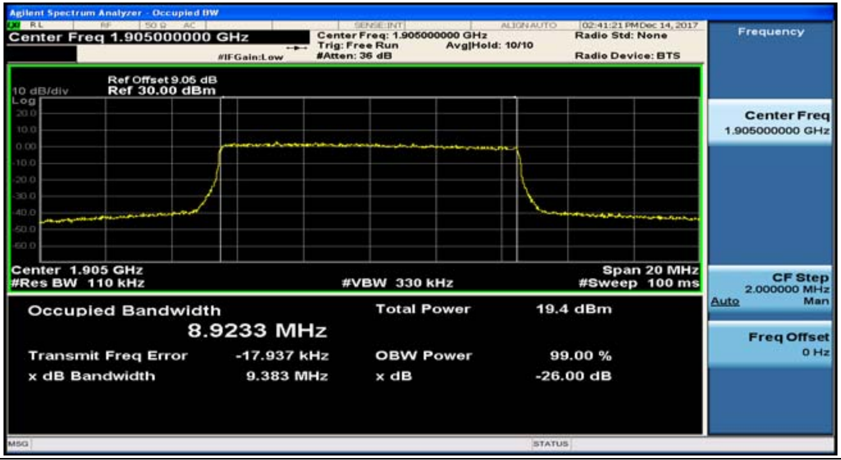
Center Freq: 1.880000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS

Center 1.88 GHz
#Res BW 110 kHz
#VBW 330 kHz
Span 20 MHz
#Sweep 100 ms

Occupied Bandwidth 8.9354 MHz
Total Power 20.2 dBm
Transmit Freq Error -6.560 kHz
OBW Power 99.00 %
x dB Bandwidth 9.433 MHz
x dB -26.00 dB

Agilent Spectrum Analyzer - Occupied BW
02:39:48 PM Dec 14, 2017
#IFGain:Low
Ref Offset 9.05 dB
Ref 30.00 dBm
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



Center Freq 1.905000000 GHz

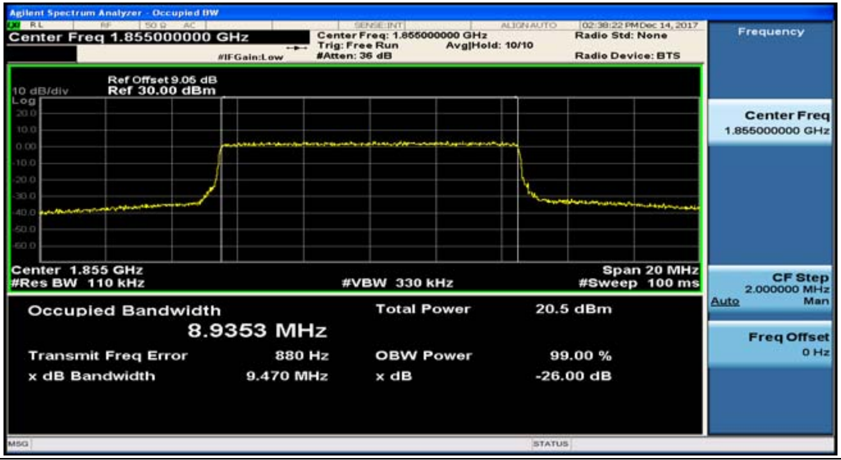
Center Freq: 1.905000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS

Center 1.905 GHz
#Res BW 110 kHz
#VBW 330 kHz
Span 20 MHz
#Sweep 100 ms

Occupied Bandwidth 8.9233 MHz
Total Power 19.4 dBm
Transmit Freq Error -17.937 kHz
OBW Power 99.00 %
x dB Bandwidth 9.383 MHz
x dB -26.00 dB

Agilent Spectrum Analyzer - Occupied BW
02:41:21 PM Dec 14, 2017
#IFGain:Low
Ref Offset 9.05 dB
Ref 30.00 dBm
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.905000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



Agilent Spectrum Analyzer - Occupied BW

02:38:22 PM Dec 14, 2017

Center Freq 1.855000000 GHz

Center Freq: 1.855000000 GHz

Trig: Free Run Avg|Hold: 10/10

#Atten: 36 dB

#IFGain:Low

Radio Std: None

Radio Device: BTS

Ref Offset 9.05 dB

Ref 30.00 dBm

10 dB/div

Center 1.855 GHz

#Res BW 110 kHz

#VBW 330 kHz

Span 20 MHz

#Sweep 100 ms

Occupied Bandwidth

8.9353 MHz

Total Power 20.5 dBm

Transmit Freq Error 880 Hz

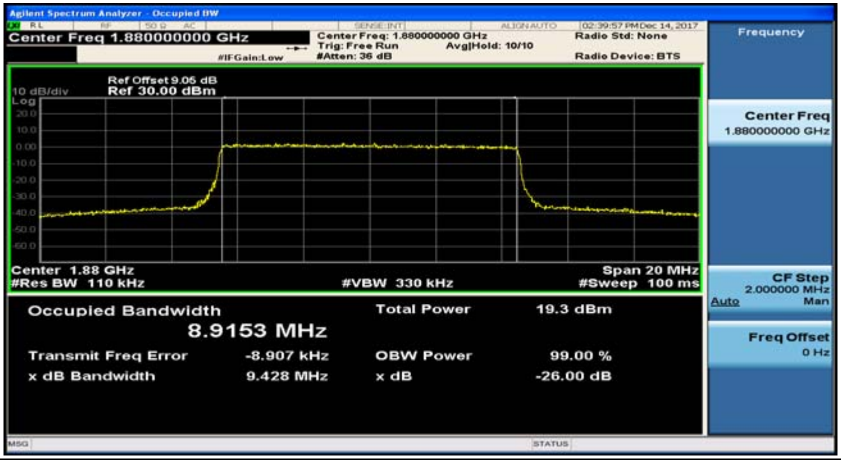
OBW Power 99.00 %

x dB Bandwidth 9.470 MHz

x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.855000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



Agilent Spectrum Analyzer - Occupied BW

02:39:57 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz

Trig: Free Run Avg|Hold: 10/10

#Atten: 36 dB

#IFGain:Low

Radio Std: None

Radio Device: BTS

Ref Offset 9.05 dB

Ref 30.00 dBm

10 dB/div

Center 1.88 GHz

#Res BW 110 kHz

#VBW 330 kHz

Span 20 MHz

#Sweep 100 ms

Occupied Bandwidth

8.9153 MHz

Total Power 19.3 dBm

Transmit Freq Error -8.907 kHz

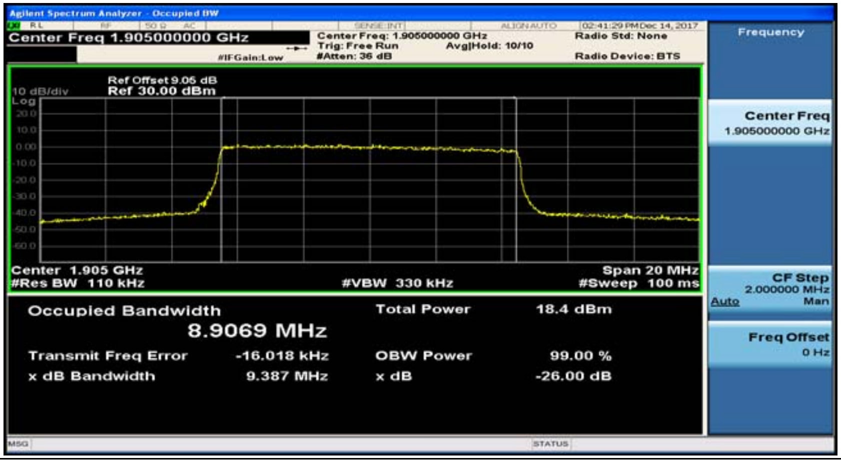
OBW Power 99.00 %

x dB Bandwidth 9.428 MHz

x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0



Agilent Spectrum Analyzer - Occupied BW

02:41:29 PM Dec 14, 2017

Center Freq 1.905000000 GHz

Center Freq: 1.905000000 GHz

Trig: Free Run Avg|Hold: 10/10

#Atten: 36 dB

#IFGain:Low

Radio Std: None

Radio Device: BTS

Ref Offset 9.05 dB

Ref 30.00 dBm

10 dB/div

Center 1.905 GHz

#Res BW 110 kHz

#VBW 330 kHz

Span 20 MHz

#Sweep 100 ms

Occupied Bandwidth

8.9069 MHz

Total Power 18.4 dBm

Transmit Freq Error -16.018 kHz

OBW Power 99.00 %

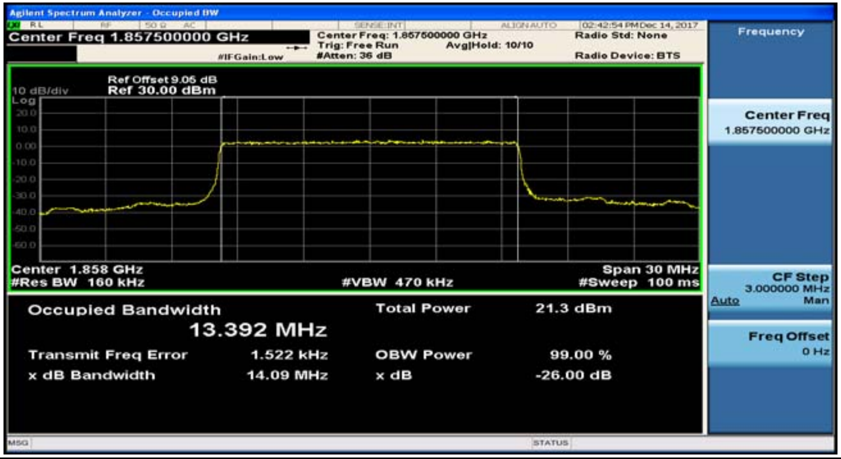
x dB Bandwidth 9.387 MHz

x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.905000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0


Agilent Spectrum Analyzer - Occupied BW

02:42:54 PM Dec 14, 2017

Center Freq 1.857500000 GHz

Center Freq: 1.857500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS

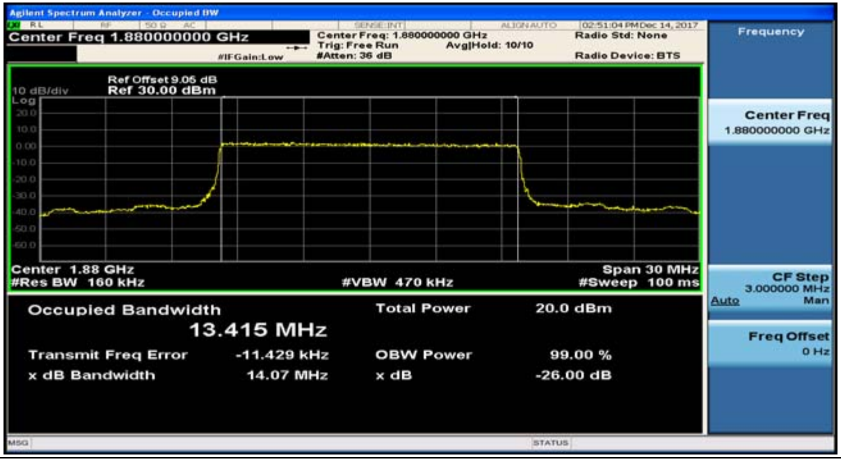
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.858 GHz
#Res BW 160 kHz
#VBW 470 kHz
Span 30 MHz
#Sweep 100 ms

Occupied Bandwidth
13.392 MHz
Total Power 21.3 dBm
Transmit Freq Error 1.522 kHz
OBW Power 99.00 %
x dB Bandwidth 14.09 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.857500000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0


Agilent Spectrum Analyzer - Occupied BW

02:51:04 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS

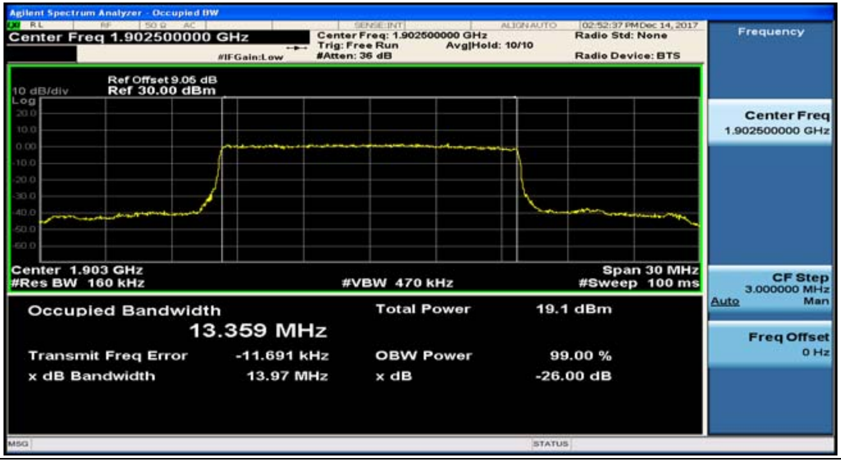
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.88 GHz
#Res BW 160 kHz
#VBW 470 kHz
Span 30 MHz
#Sweep 100 ms

Occupied Bandwidth
13.415 MHz
Total Power 20.0 dBm
Transmit Freq Error -11.429 kHz
OBW Power 99.00 %
x dB Bandwidth 14.07 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0


Agilent Spectrum Analyzer - Occupied BW

02:52:37 PM Dec 14, 2017

Center Freq 1.902500000 GHz

Center Freq: 1.902500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS

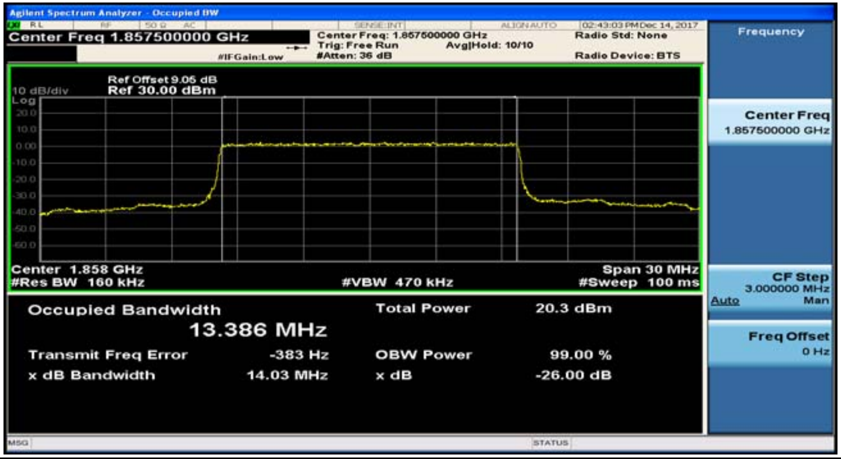
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.903 GHz
#Res BW 160 kHz
#VBW 470 kHz
Span 30 MHz
#Sweep 100 ms

Occupied Bandwidth
13.359 MHz
Total Power 19.1 dBm
Transmit Freq Error -11.691 kHz
OBW Power 99.00 %
x dB Bandwidth 13.97 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.902500000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.857500000 GHz

Center Freq: 1.857500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
02:43:03 PM Dec 14, 2017

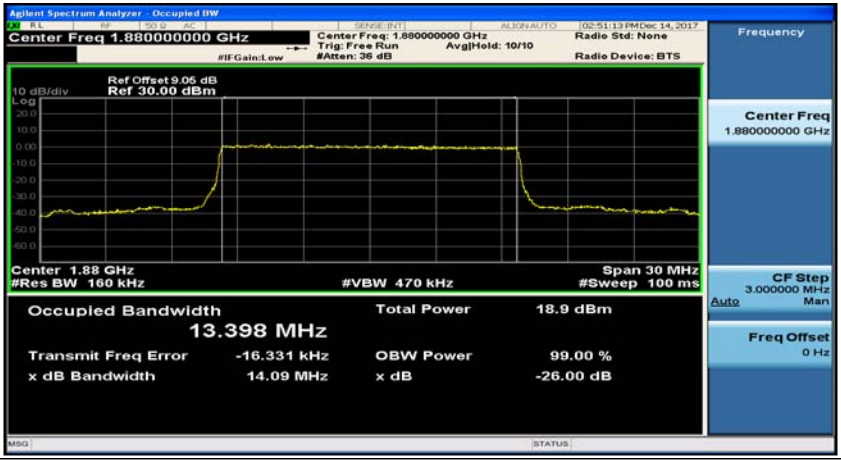
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.858 GHz
#Res BW 160 kHz #VBW 470 kHz
Span 30 MHz
#Sweep 100 ms

Occupied Bandwidth 13.386 MHz
Total Power 20.3 dBm
Transmit Freq Error -383 Hz
OBW Power 99.00 %
x dB Bandwidth 14.03 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
#IFGain:Low
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.857500000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
02:51:13 PM Dec 14, 2017

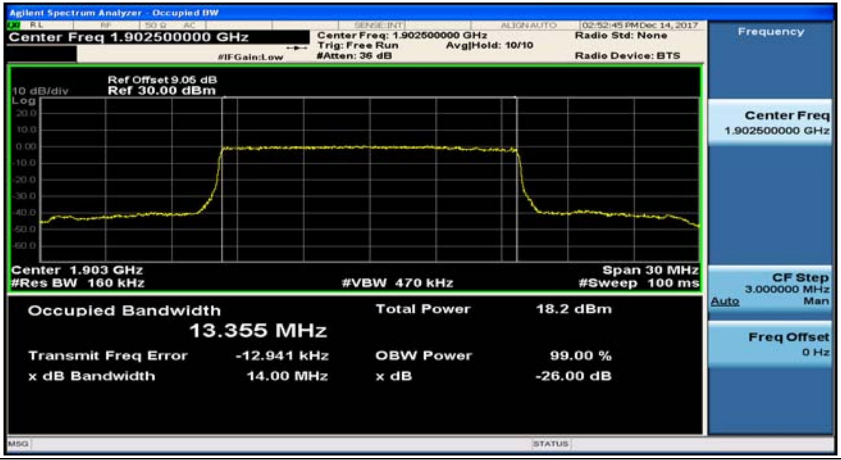
Ref Offset 9.05 dB
Ref 30.00 dBm

Center 1.88 GHz
#Res BW 160 kHz #VBW 470 kHz
Span 30 MHz
#Sweep 100 ms

Occupied Bandwidth 13.398 MHz
Total Power 18.9 dBm
Transmit Freq Error -16.331 kHz
OBW Power 99.00 %
x dB Bandwidth 14.09 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
#IFGain:Low
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.902500000 GHz

Center Freq: 1.902500000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
Radio Std: None
Radio Device: BTS
02:52:45 PM Dec 14, 2017

Ref Offset 9.05 dB
Ref 30.00 dBm

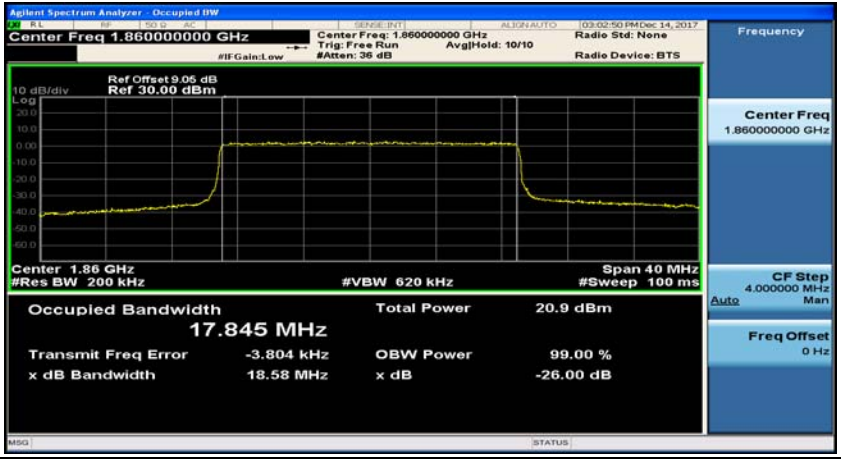
Center 1.903 GHz
#Res BW 160 kHz #VBW 470 kHz
Span 30 MHz
#Sweep 100 ms

Occupied Bandwidth 13.355 MHz
Total Power 18.2 dBm
Transmit Freq Error -12.941 kHz
OBW Power 99.00 %
x dB Bandwidth 14.00 MHz
x dB -26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
#IFGain:Low
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.902500000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0



Agilent Spectrum Analyzer - Occupied BW

03:02:50 PM Dec 14, 2017

Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS

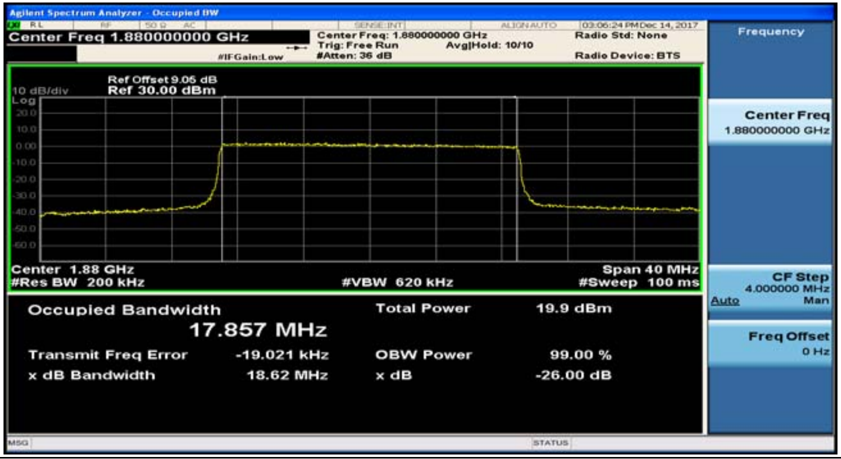
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm

Center 1.86 GHz Span 40 MHz
#Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms

Occupied Bandwidth		Total Power	20.9 dBm
17.845 MHz			
Transmit Freq Error	-3.804 kHz	OBW Power	99.00 %
x dB Bandwidth	18.58 MHz	x dB	-26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.860000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0



Agilent Spectrum Analyzer - Occupied BW

03:06:24 PM Dec 14, 2017

Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS

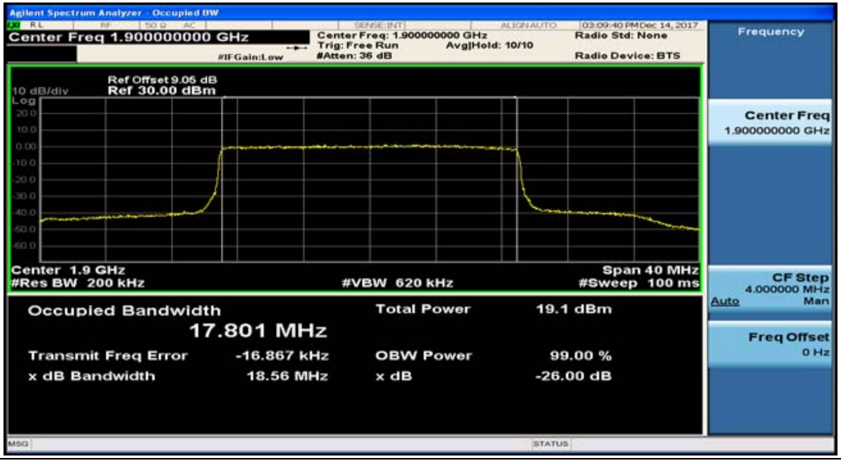
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm

Center 1.88 GHz Span 40 MHz
#Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms

Occupied Bandwidth		Total Power	19.9 dBm
17.857 MHz			
Transmit Freq Error	-19.021 kHz	OBW Power	99.00 %
x dB Bandwidth	18.62 MHz	x dB	-26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.880000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0



Agilent Spectrum Analyzer - Occupied BW

03:09:40 PM Dec 14, 2017

Center Freq 1.900000000 GHz

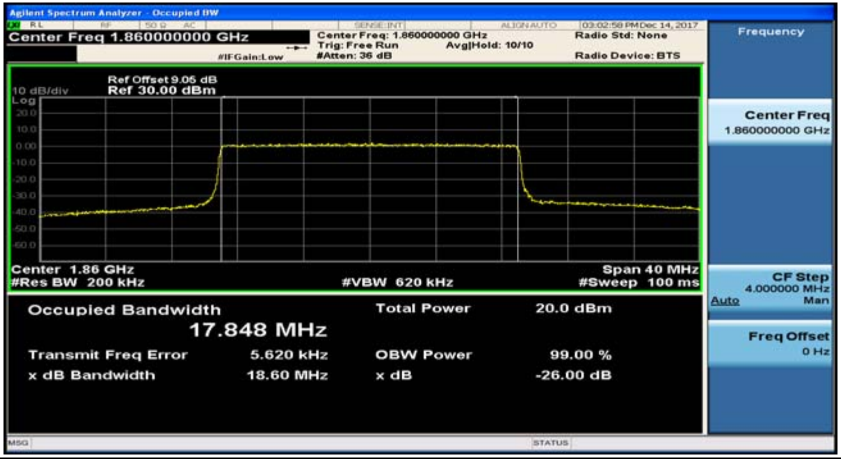
Center Freq: 1.900000000 GHz
Trig: Free Run Avg|Hold: 10/10
#Atten: 36 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS

Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm

Center 1.9 GHz Span 40 MHz
#Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms

Occupied Bandwidth		Total Power	19.1 dBm
17.801 MHz			
Transmit Freq Error	-16.867 kHz	OBW Power	99.00 %
x dB Bandwidth	18.56 MHz	x dB	-26.00 dB

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Frequency
Center Freq
1.900000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0


Agilent Spectrum Analyzer - Occupied BW

RL | RF | 50 Ω | AC | SENSE:INT | ALIGN AUTO | 03:02:58 PM Dec 14, 2017

Center Freq 1.860000000 GHz

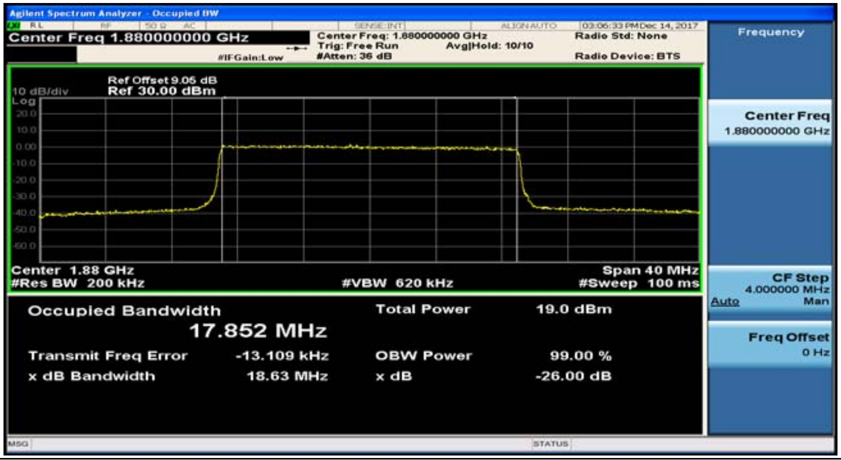
Center Freq: 1.860000000 GHz | Radio Std: None
Trig: Free Run | Avg|Hold: 10/10
#IFGain:Low | #Atten: 36 dB | Radio Device: BTS

Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Log

Center 1.86 GHz | Span 40 MHz
#Res BW 200 kHz | #VBW 620 kHz | #Sweep 100 ms

Occupied Bandwidth		Total Power	20.0 dBm
17.848 MHz			
Transmit Freq Error	5.620 kHz	OBW Power	99.00 %
x dB Bandwidth	18.60 MHz	x dB	-26.00 dB

Frequency
Center Freq
1.860000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
MSG
STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0


Agilent Spectrum Analyzer - Occupied BW

RL | RF | 50 Ω | AC | SENSE:INT | ALIGN AUTO | 03:06:33 PM Dec 14, 2017

Center Freq 1.880000000 GHz

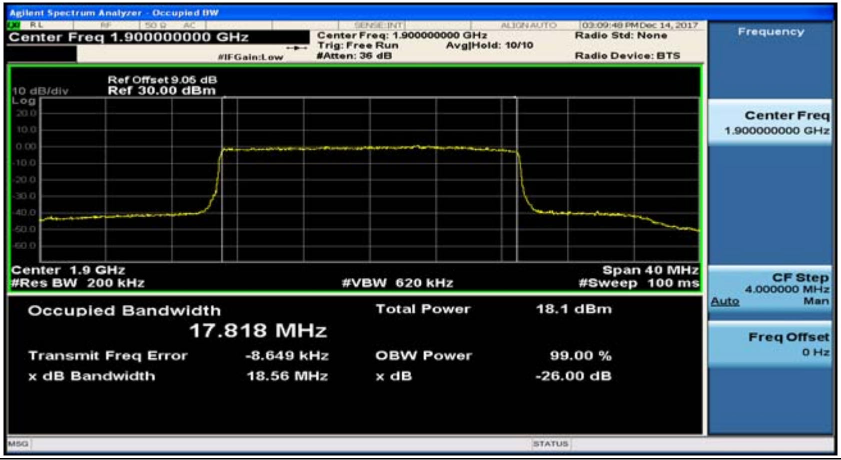
Center Freq: 1.880000000 GHz | Radio Std: None
Trig: Free Run | Avg|Hold: 10/10
#IFGain:Low | #Atten: 36 dB | Radio Device: BTS

Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Log

Center 1.88 GHz | Span 40 MHz
#Res BW 200 kHz | #VBW 620 kHz | #Sweep 100 ms

Occupied Bandwidth		Total Power	19.0 dBm
17.852 MHz			
Transmit Freq Error	-13.109 kHz	OBW Power	99.00 %
x dB Bandwidth	18.63 MHz	x dB	-26.00 dB

Frequency
Center Freq
1.880000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
MSG
STATUS

(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0


Agilent Spectrum Analyzer - Occupied BW

RL | RF | 50 Ω | AC | SENSE:INT | ALIGN AUTO | 03:09:48 PM Dec 14, 2017

Center Freq 1.900000000 GHz

Center Freq: 1.900000000 GHz | Radio Std: None
Trig: Free Run | Avg|Hold: 10/10
#IFGain:Low | #Atten: 36 dB | Radio Device: BTS

Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Log

Center 1.9 GHz | Span 40 MHz
#Res BW 200 kHz | #VBW 620 kHz | #Sweep 100 ms

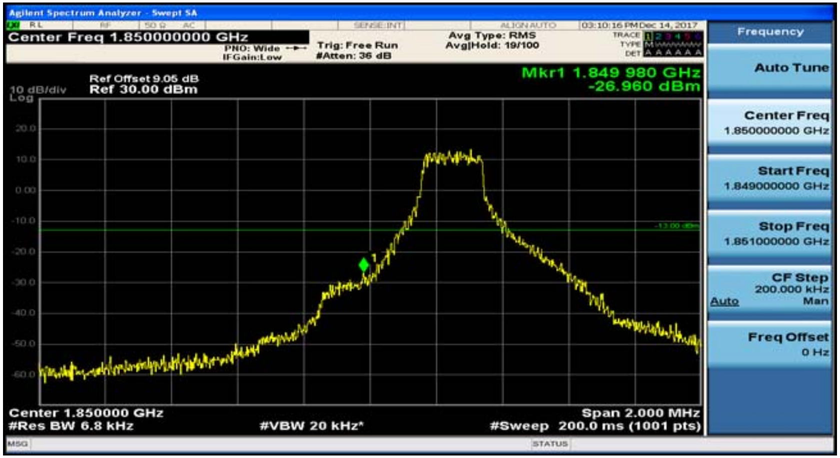
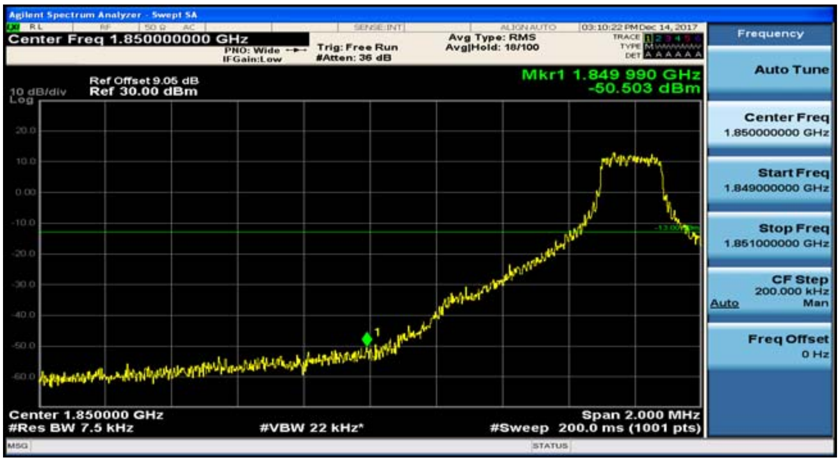
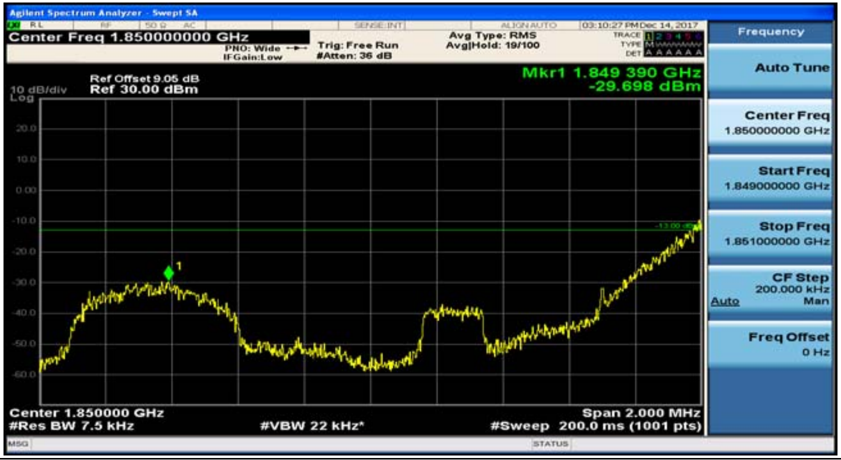
Occupied Bandwidth		Total Power	18.1 dBm
17.818 MHz			
Transmit Freq Error	-8.649 kHz	OBW Power	99.00 %
x dB Bandwidth	18.56 MHz	x dB	-26.00 dB

Frequency
Center Freq
1.900000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
MSG
STATUS

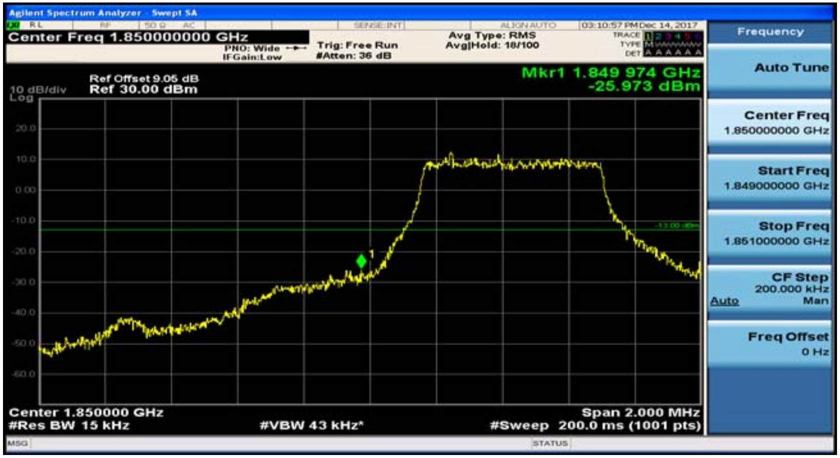
Appendix D: Band Edge

Test Graphs

Channel Bandwidth: 1.4 MHz

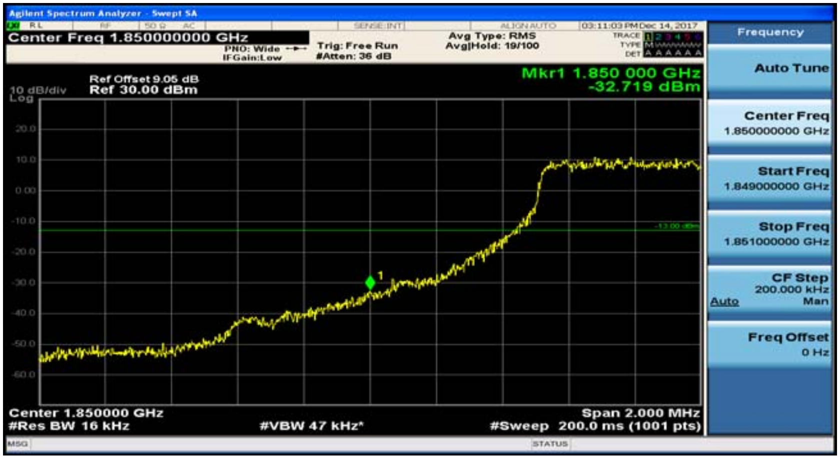
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0
 Center Freq 1.850000000 GHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 19/100 03:10:16 PM Dec 14, 2017 Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log Mkr1 1.849 980 GHz -26.960 dBm Center 1.850000 GHz #Res BW 6.8 kHz #VBW 20 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts) Center Freq 1.850000000 GHz Start Freq 1.849000000 GHz Stop Freq 1.851000000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN AUTO TRACE 1 2 3 4 5 6 TYPE M DET A A A A A A 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -13.00 dBm 1 Frequency Auto Tune MSG STATUS
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3
 Center Freq 1.850000000 GHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 18/100 03:10:22 PM Dec 14, 2017 Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log Mkr1 1.849 990 GHz -50.503 dBm Center 1.850000 GHz #Res BW 7.5 kHz #VBW 22 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts) Center Freq 1.850000000 GHz Start Freq 1.849000000 GHz Stop Freq 1.851000000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN AUTO TRACE 1 2 3 4 5 6 TYPE M DET A A A A A A 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -13.00 dBm 1 Frequency Auto Tune MSG STATUS
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5
 Center Freq 1.850000000 GHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 19/100 03:10:27 PM Dec 14, 2017 Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log Mkr1 1.849 390 GHz -29.698 dBm Center 1.850000 GHz #Res BW 7.5 kHz #VBW 22 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts) Center Freq 1.850000000 GHz Start Freq 1.849000000 GHz Stop Freq 1.851000000 GHz CF Step 200.000 kHz Auto Man Freq Offset 0 Hz Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN AUTO TRACE 1 2 3 4 5 6 TYPE M DET A A A A A A 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -13.00 dBm 1 Frequency Auto Tune MSG STATUS

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0


Agilent Spectrum Analyzer - Swept SA
Frequency
Auto Tune
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

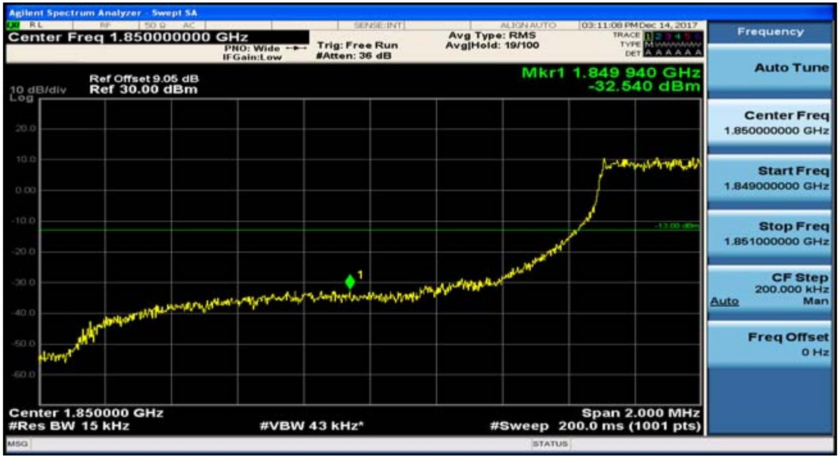
Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 18/100
03:10:57 PM Dec 14, 2017
Ref Offset 9.05 dB
Ref 30.00 dBm
Mkr1 1.849 974 GHz
-25.973 dBm
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
Center 1.850000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2


Agilent Spectrum Analyzer - Swept SA
Frequency
Auto Tune
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

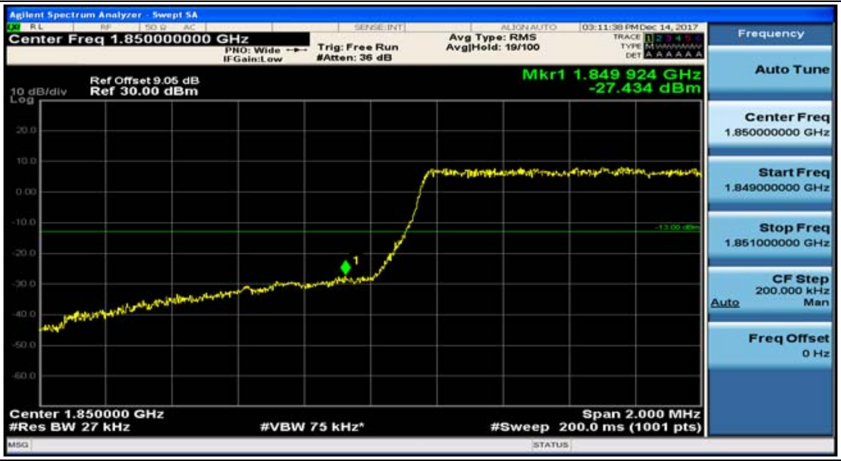
Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:11:03 PM Dec 14, 2017
Ref Offset 9.05 dB
Ref 30.00 dBm
Mkr1 1.850 000 GHz
-32.719 dBm
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
Center 1.850000 GHz
#Res BW 16 kHz
#VBW 47 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3


Agilent Spectrum Analyzer - Swept SA
Frequency
Auto Tune
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:11:08 PM Dec 14, 2017
Ref Offset 9.05 dB
Ref 30.00 dBm
Mkr1 1.849 940 GHz
-32.540 dBm
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
Center 1.850000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

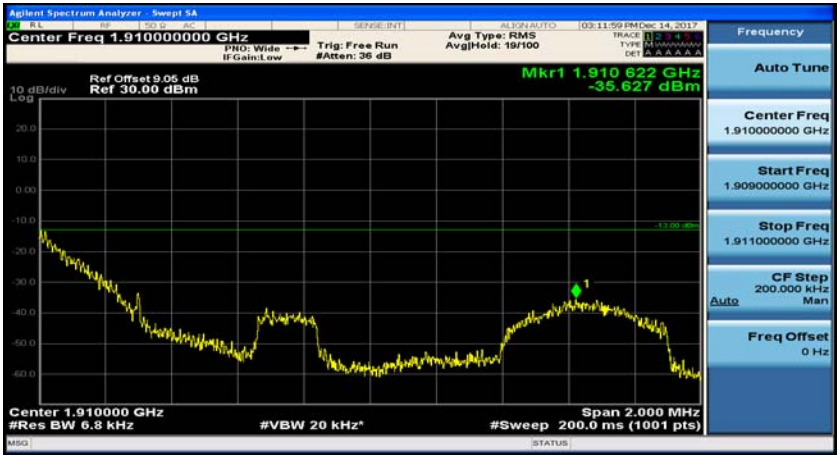
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



Agilent Spectrum Analyzer - Swept SA
Center Freq 1.850000000 GHz
PNO: Wide IFGain:Low
Trig: Free Run #Atten: 36 dB
Avg Type: RMS Avg|Hold: 19/100
03:11:38 PM Dec 14, 2017
Ref Offset 9.05 dB Ref 30.00 dBm
Mkr1 1.849 924 GHz -27.434 dBm
Center 1.850000 GHz Span 2.000 MHz
#Res BW 27 kHz #VBW 75 kHz* #Sweep 200.0 ms (1001 pts)
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
Frequency
Auto Tune
Auto
Man
MSG
STATUS

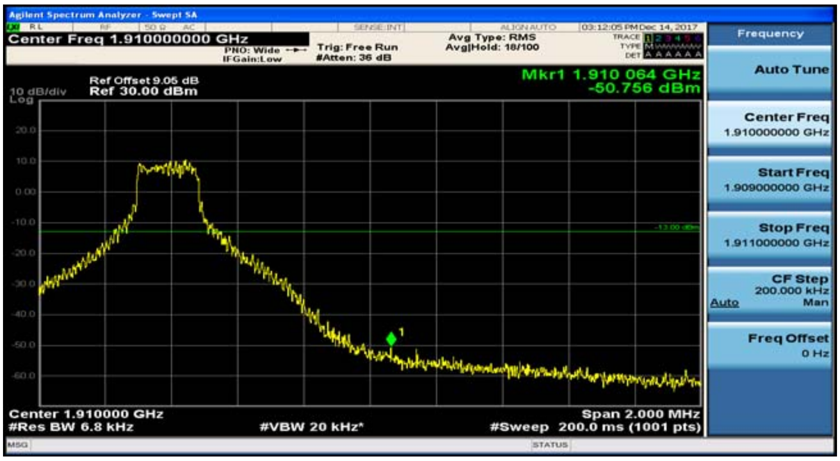
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



Agilent Spectrum Analyzer - Swept SA
Center Freq 1.910000000 GHz
PNO: Wide IFGain:Low
Trig: Free Run #Atten: 36 dB
Avg Type: RMS Avg|Hold: 19/100
03:11:59 PM Dec 14, 2017
Ref Offset 9.05 dB Ref 30.00 dBm
Mkr1 1.910 622 GHz -35.627 dBm
Center 1.910000 GHz Span 2.000 MHz
#Res BW 6.8 kHz #VBW 20 kHz* #Sweep 200.0 ms (1001 pts)
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
Frequency
Auto Tune
Auto
Man
MSG
STATUS

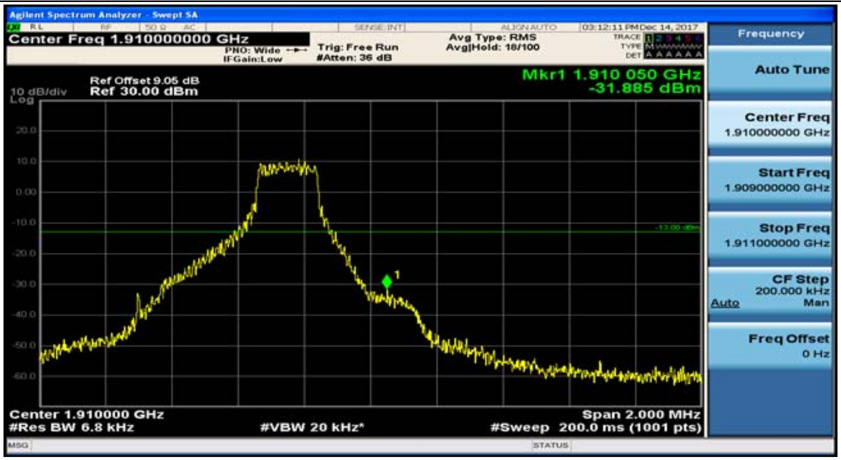
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



Agilent Spectrum Analyzer - Swept SA
Center Freq 1.910000000 GHz
PNO: Wide IFGain:Low
Trig: Free Run #Atten: 36 dB
Avg Type: RMS Avg|Hold: 18/100
03:12:05 PM Dec 14, 2017
Ref Offset 9.05 dB Ref 30.00 dBm
Mkr1 1.910 064 GHz -50.756 dBm
Center 1.910000 GHz Span 2.000 MHz
#Res BW 6.8 kHz #VBW 20 kHz* #Sweep 200.0 ms (1001 pts)
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
Frequency
Auto Tune
Auto
Man
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5


Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 18/100

03:12:11 PM Dec 14, 2017

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.910 050 GHz

-31.885 dBm

Center 1.910000 GHz

#Res BW 6.8 kHz

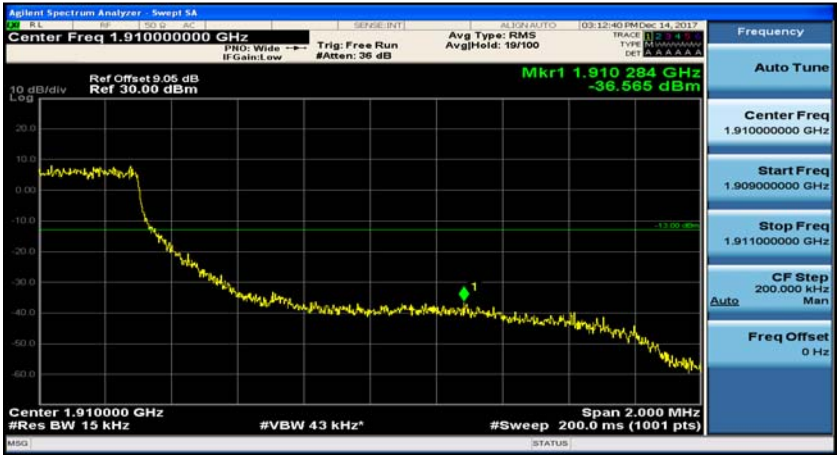
#VBW 20 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS
Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0


Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

03:12:40 PM Dec 14, 2017

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.910 284 GHz

-36.565 dBm

Center 1.910000 GHz

#Res BW 15 kHz

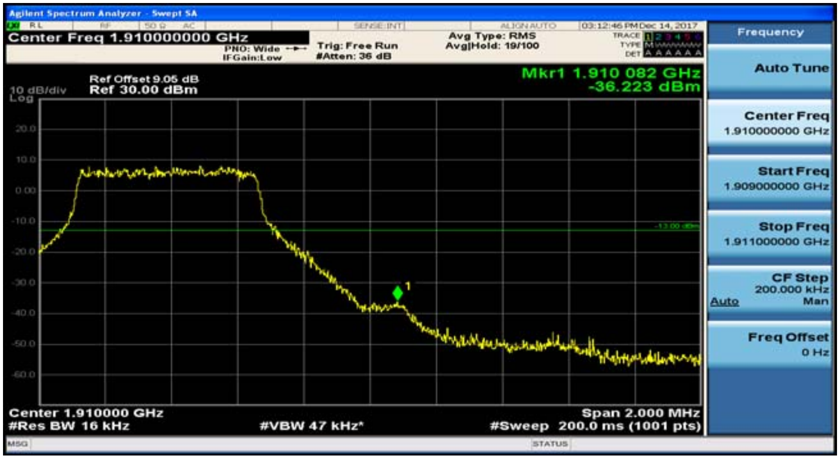
#VBW 43 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS
Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2


Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

03:12:46 PM Dec 14, 2017

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.910 082 GHz

-36.223 dBm

Center 1.910000 GHz

#Res BW 16 kHz

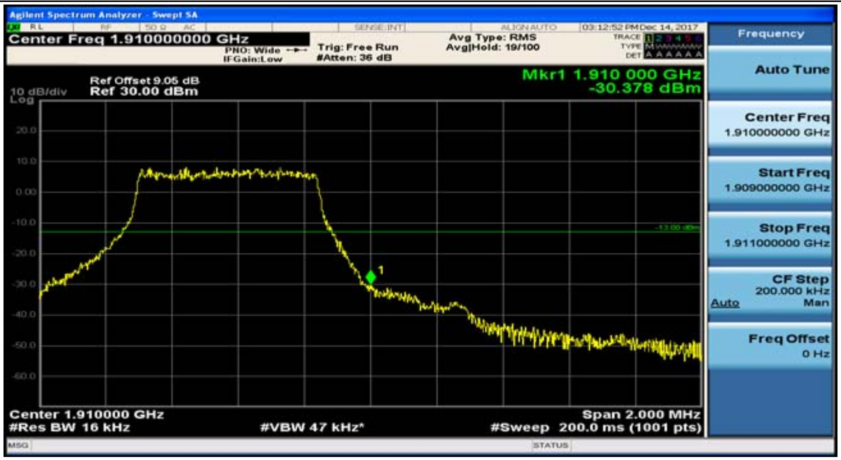
#VBW 47 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS
Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

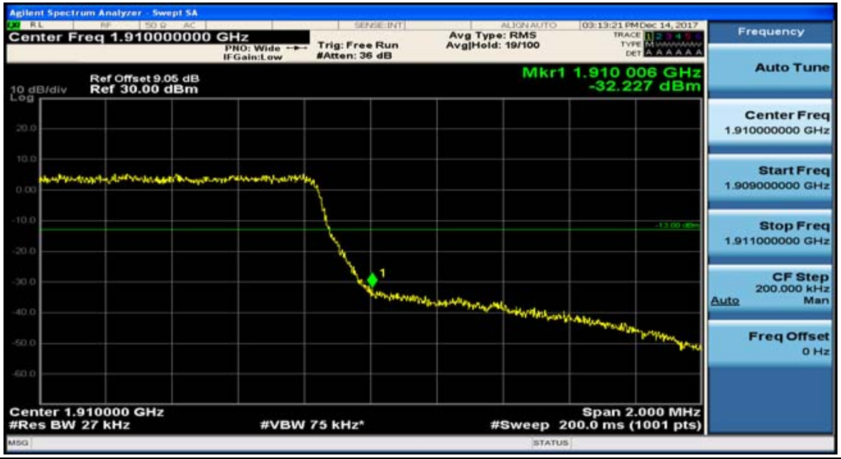
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



Agilent Spectrum Analyzer - Swept SA
Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:12:52 PM Dec 14, 2017
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 000 GHz
-30.378 dBm
Center 1.910000 GHz
#Res BW 16 kHz
#VBW 47 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

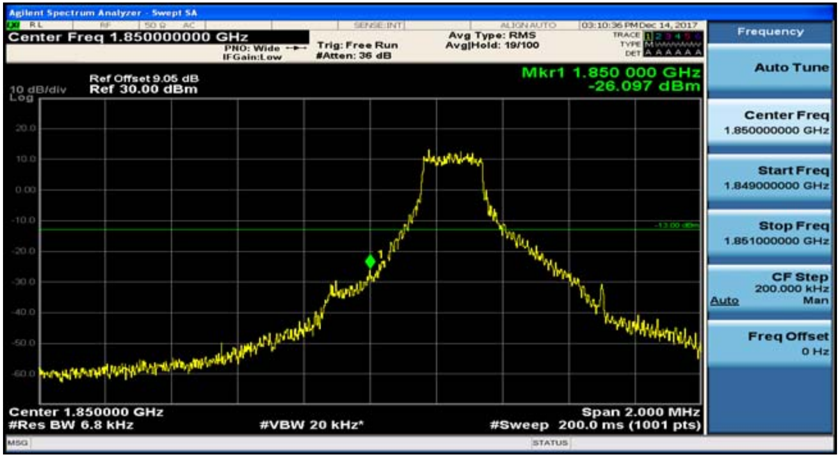
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



Agilent Spectrum Analyzer - Swept SA
Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:13:21 PM Dec 14, 2017
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 006 GHz
-32.227 dBm
Center 1.910000 GHz
#Res BW 27 kHz
#VBW 75 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

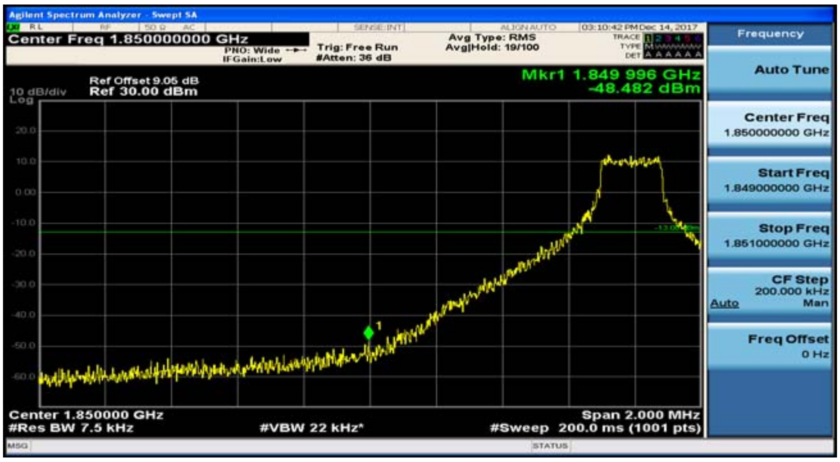
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



Agilent Spectrum Analyzer - Swept SA
Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:10:36 PM Dec 14, 2017
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.850 000 GHz
-26.097 dBm
Center 1.850000 GHz
#Res BW 6.8 kHz
#VBW 20 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq
1.850000000 GHz
Start Freq
1.849000000 GHz
Stop Freq
1.851000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 19/100 03:10:42 PM Dec 14, 2017

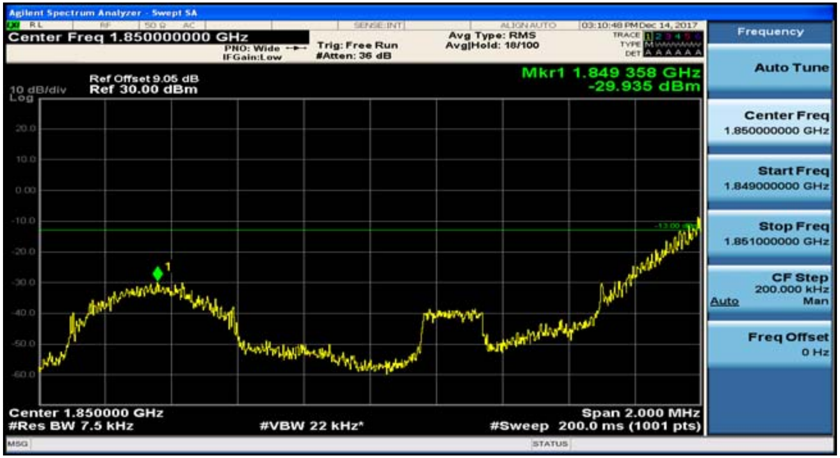
Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log

Mkr1 1.849 996 GHz -48.482 dBm

Center 1.850000 GHz #Res BW 7.5 kHz #VBW 22 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 18/100 03:10:48 PM Dec 14, 2017

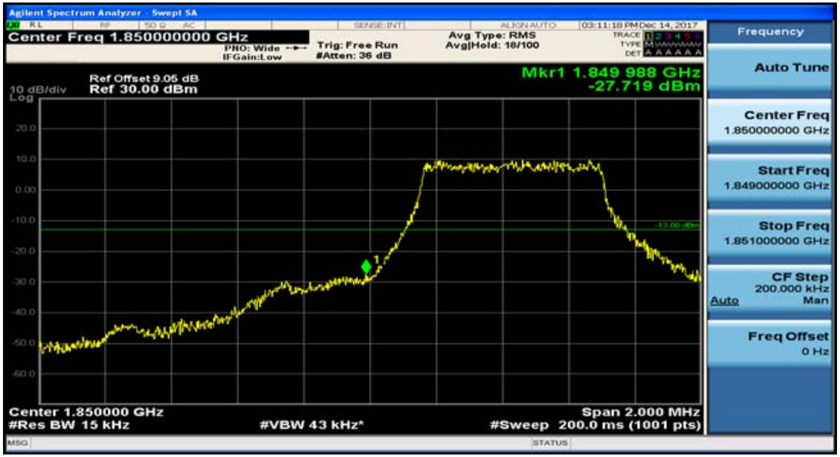
Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log

Mkr1 1.849 358 GHz -29.935 dBm

Center 1.850000 GHz #Res BW 7.5 kHz #VBW 22 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 18/100 03:11:18 PM Dec 14, 2017

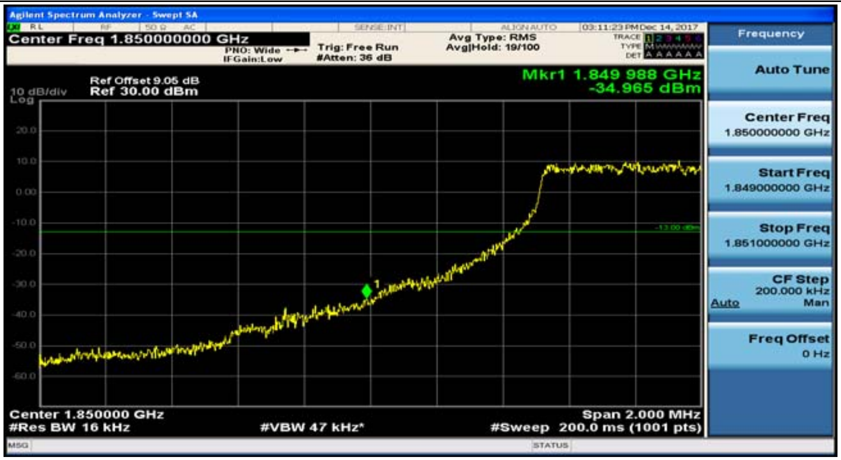
Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log

Mkr1 1.849 988 GHz -27.719 dBm

Center 1.850000 GHz #Res BW 15 kHz #VBW 43 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

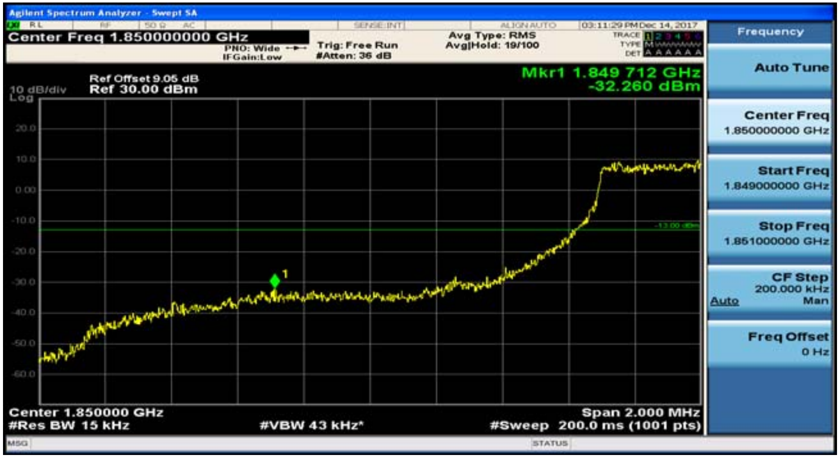
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



Center Freq 1.850000000 GHz
PNO: Wide IFGain:Low
Trig: Free Run #Atten: 36 dB
Avg Type: RMS Avg|Hold: 19/100
03:11:23 PM Dec 14, 2017
Ref Offset 9.05 dB Ref 30.00 dBm
Mkr1 1.849 988 GHz -34.965 dBm
Center 1.850000 GHz Span 2.000 MHz
#Res BW 16 kHz #VBW 47 kHz* #Sweep 200.0 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
MSG
STATUS

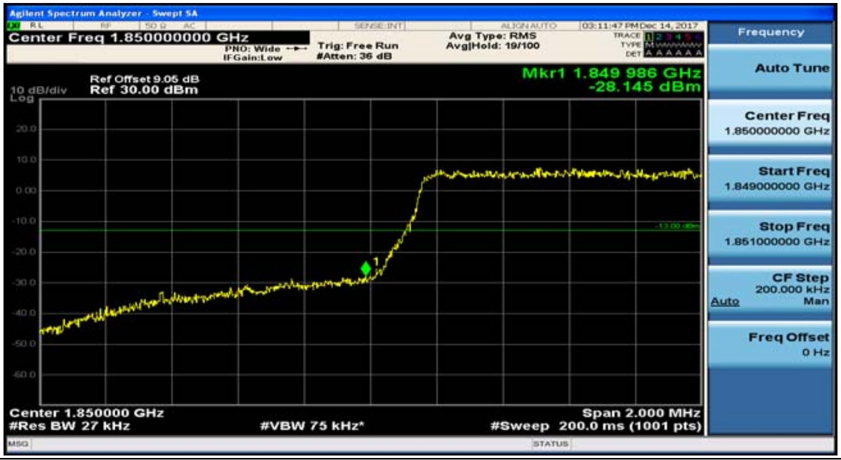
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



Center Freq 1.850000000 GHz
PNO: Wide IFGain:Low
Trig: Free Run #Atten: 36 dB
Avg Type: RMS Avg|Hold: 19/100
03:11:29 PM Dec 14, 2017
Ref Offset 9.05 dB Ref 30.00 dBm
Mkr1 1.849 712 GHz -32.260 dBm
Center 1.850000 GHz Span 2.000 MHz
#Res BW 15 kHz #VBW 43 kHz* #Sweep 200.0 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
MSG
STATUS

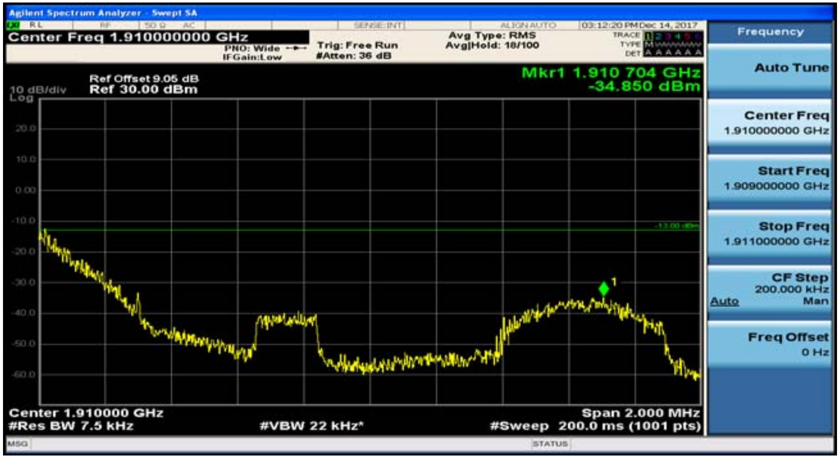
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



Center Freq 1.850000000 GHz
PNO: Wide IFGain:Low
Trig: Free Run #Atten: 36 dB
Avg Type: RMS Avg|Hold: 19/100
03:11:47 PM Dec 14, 2017
Ref Offset 9.05 dB Ref 30.00 dBm
Mkr1 1.849 986 GHz -28.145 dBm
Center 1.850000 GHz Span 2.000 MHz
#Res BW 27 kHz #VBW 75 kHz* #Sweep 200.0 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



Agilent Spectrum Analyzer - Swept SA

03:12:20 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 18/100

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.910 704 GHz

-34.850 dBm

Center 1.910000 GHz

#Res BW 7.5 kHz

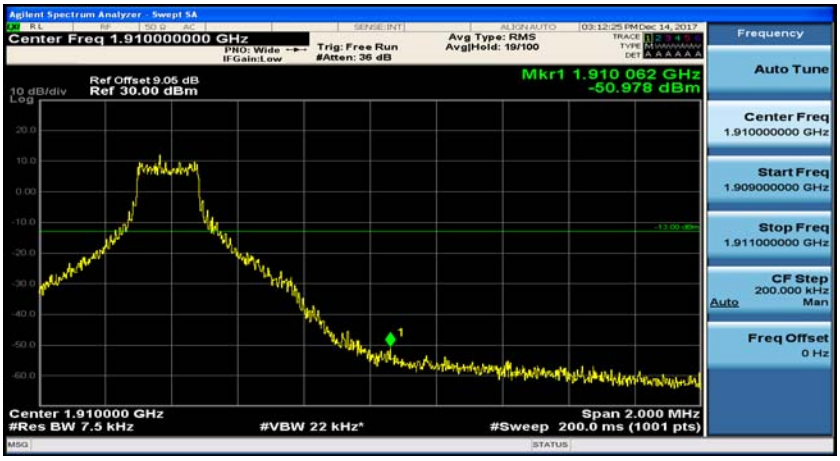
#VBW 22 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



Agilent Spectrum Analyzer - Swept SA

03:12:25 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.910 062 GHz

-50.978 dBm

Center 1.910000 GHz

#Res BW 7.5 kHz

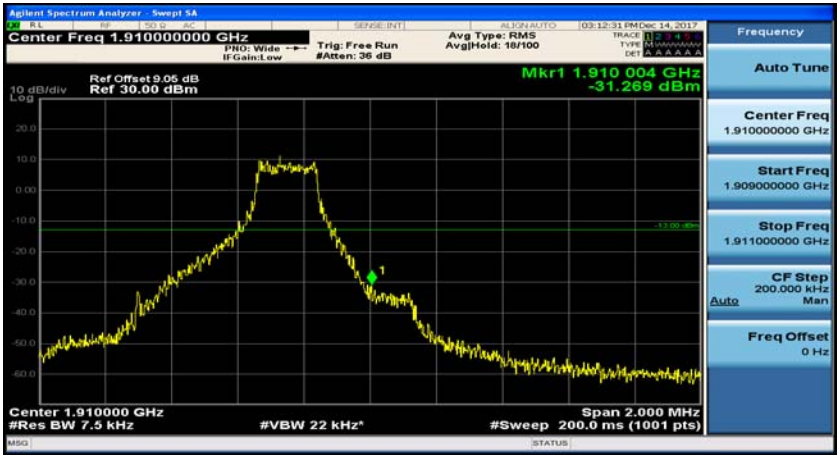
#VBW 22 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



Agilent Spectrum Analyzer - Swept SA

03:12:31 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 18/100

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.910 004 GHz

-31.269 dBm

Center 1.910000 GHz

#Res BW 7.5 kHz

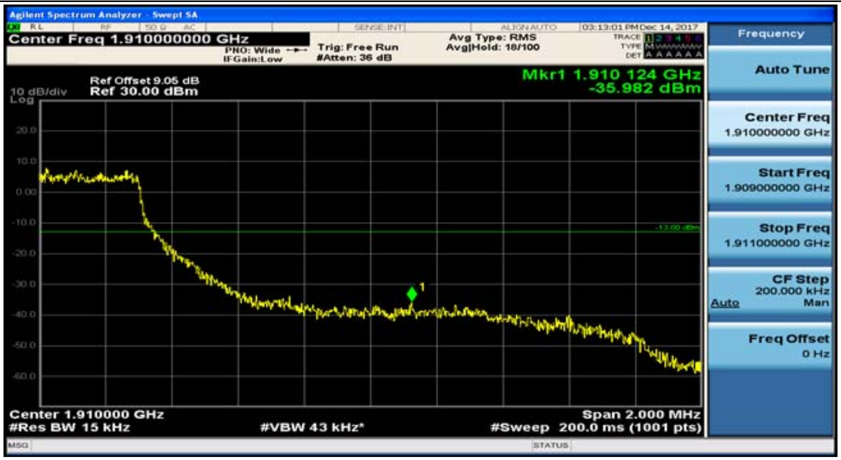
#VBW 22 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

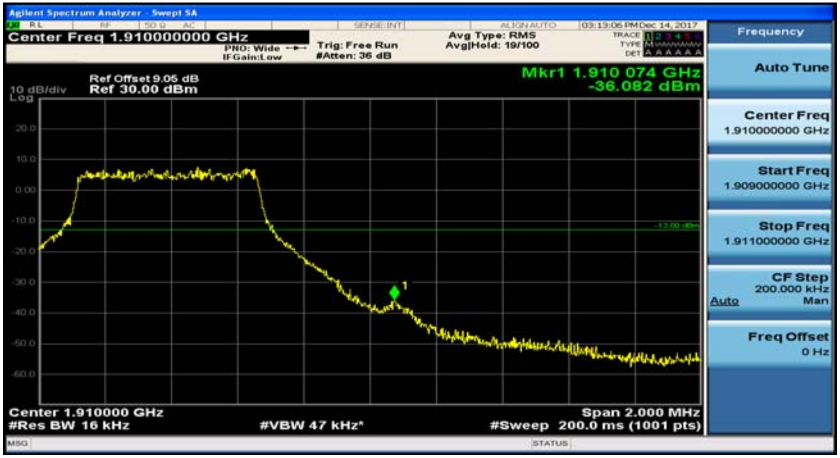
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



Agilent Spectrum Analyzer - Swept SA
03:13:01 PM Dec 14, 2017
Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 18/100
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 124 GHz
-35.982 dBm
Center 1.910000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

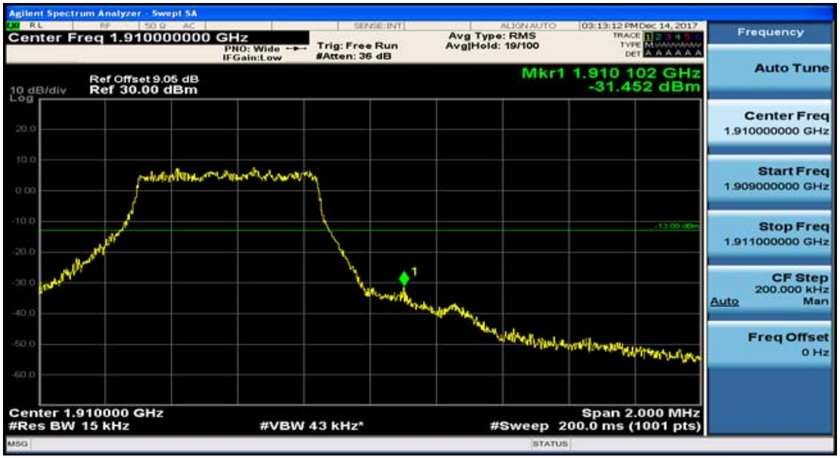
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



Agilent Spectrum Analyzer - Swept SA
03:13:06 PM Dec 14, 2017
Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 074 GHz
-36.082 dBm
Center 1.910000 GHz
#Res BW 16 kHz
#VBW 47 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

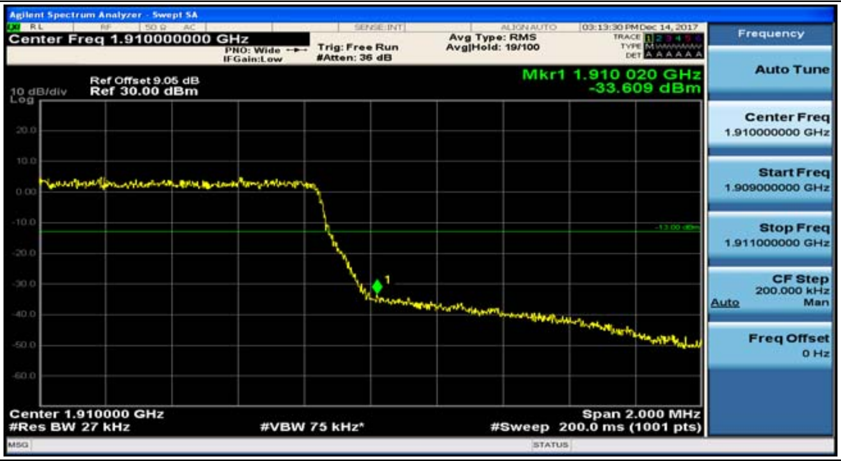
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3



Agilent Spectrum Analyzer - Swept SA
03:13:12 PM Dec 14, 2017
Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 102 GHz
-31.452 dBm
Center 1.910000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Frequency
Auto Tune
Center Freq
1.910000000 GHz
Start Freq
1.909000000 GHz
Stop Freq
1.911000000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:13:30 PM Dec 14, 2017

Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 020 GHz -33.609 dBm

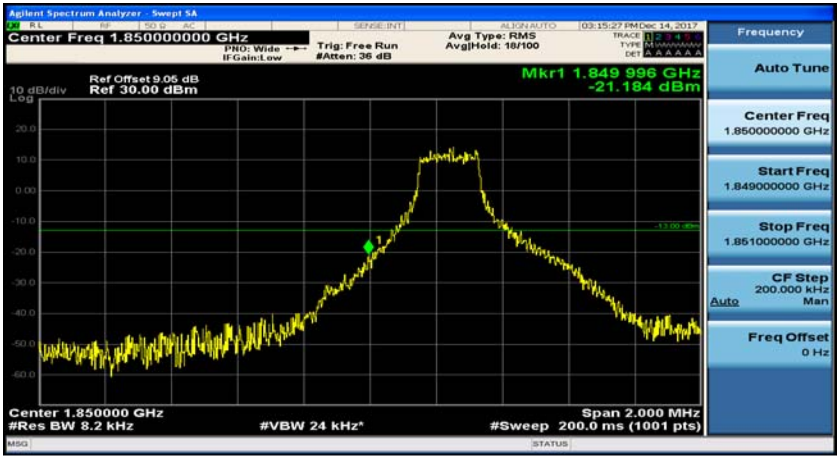
Center 1.910000 GHz
#Res BW 27 kHz
#VBW 75 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

Frequency
Auto Tune
Auto
Man
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 18/100
03:15:27 PM Dec 14, 2017

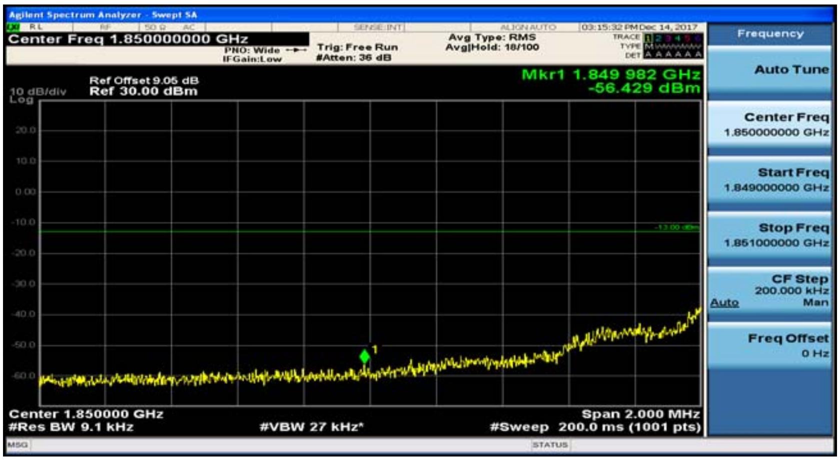
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.849 996 GHz -21.184 dBm

Center 1.850000 GHz
#Res BW 8.2 kHz
#VBW 24 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

Frequency
Auto Tune
Auto
Man
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 18/100
03:15:32 PM Dec 14, 2017

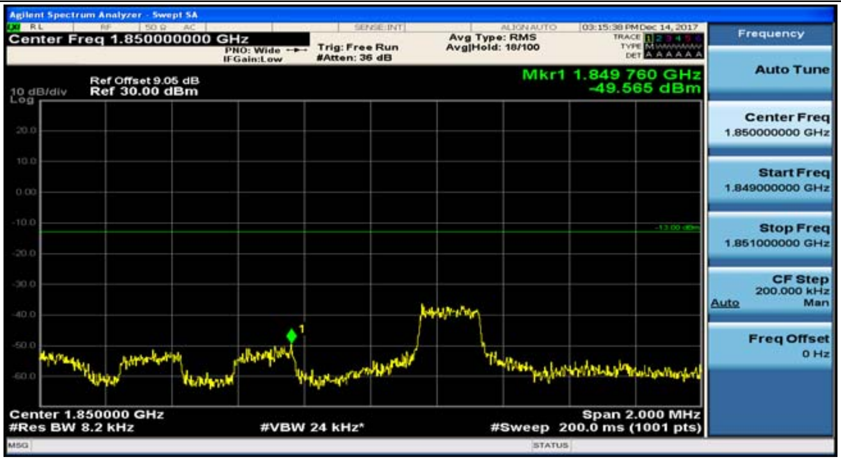
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.849 982 GHz -56.429 dBm

Center 1.850000 GHz
#Res BW 9.1 kHz
#VBW 27 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

Frequency
Auto Tune
Auto
Man
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz

PNO: Wide IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 18/100

03:15:38 PM Dec 14, 2017

Ref Offset 9.05 dB

10 dB/div Ref 30.00 dBm

Mkr1 1.849 760 GHz -49.565 dBm

Center 1.850000 GHz

#Res BW 8.2 kHz

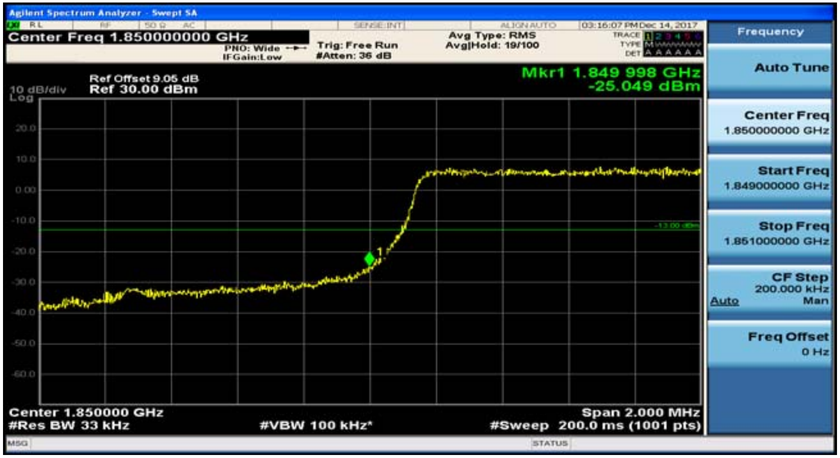
#VBW 24 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz

PNO: Wide IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

03:16:07 PM Dec 14, 2017

Ref Offset 9.05 dB

10 dB/div Ref 30.00 dBm

Mkr1 1.849 998 GHz -25.049 dBm

Center 1.850000 GHz

#Res BW 33 kHz

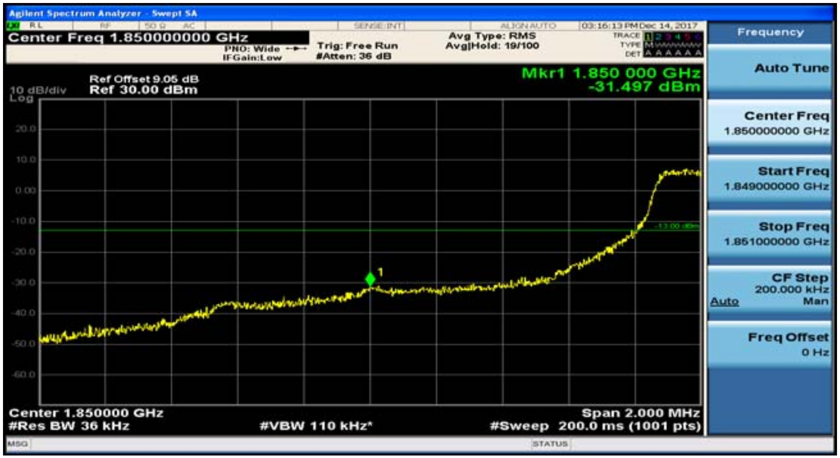
#VBW 100 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz

PNO: Wide IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

03:16:13 PM Dec 14, 2017

Ref Offset 9.05 dB

10 dB/div Ref 30.00 dBm

Mkr1 1.850 000 GHz -31.497 dBm

Center 1.850000 GHz

#Res BW 36 kHz

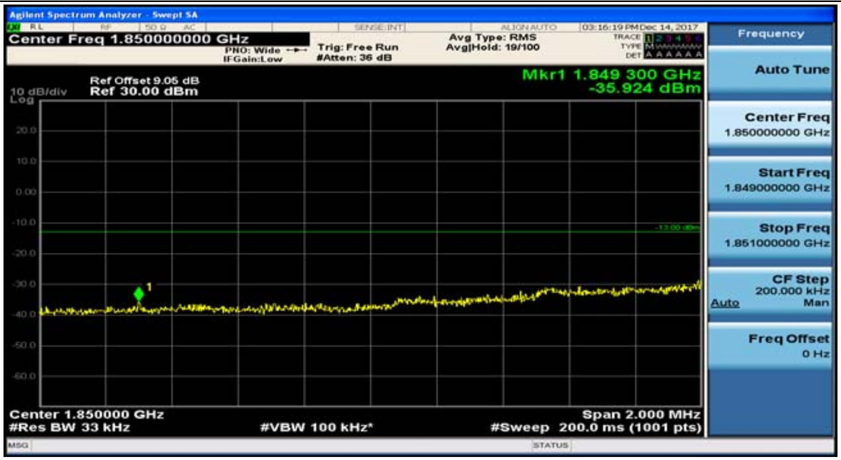
#VBW 110 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

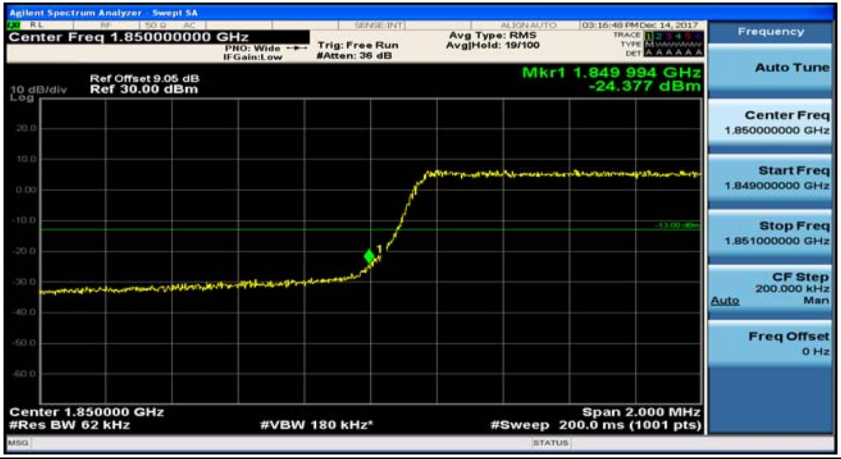
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



Agilent Spectrum Analyzer - Swept SA
03:16:19 PM Dec 14, 2017
Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.849 300 GHz -35.924 dBm
Center 1.850000 GHz
#Res BW 33 kHz
#VBW 100 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Auto
Man
MSG
STATUS

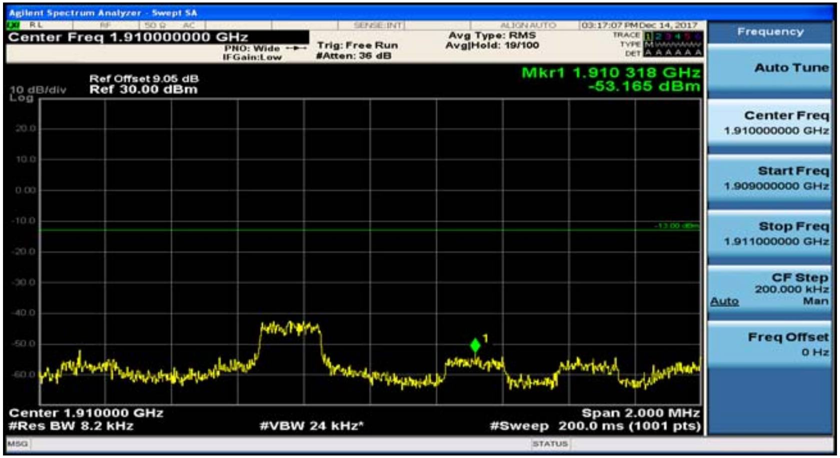
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



Agilent Spectrum Analyzer - Swept SA
03:16:48 PM Dec 14, 2017
Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.849 994 GHz -24.377 dBm
Center 1.850000 GHz
#Res BW 62 kHz
#VBW 180 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Auto
Man
MSG
STATUS

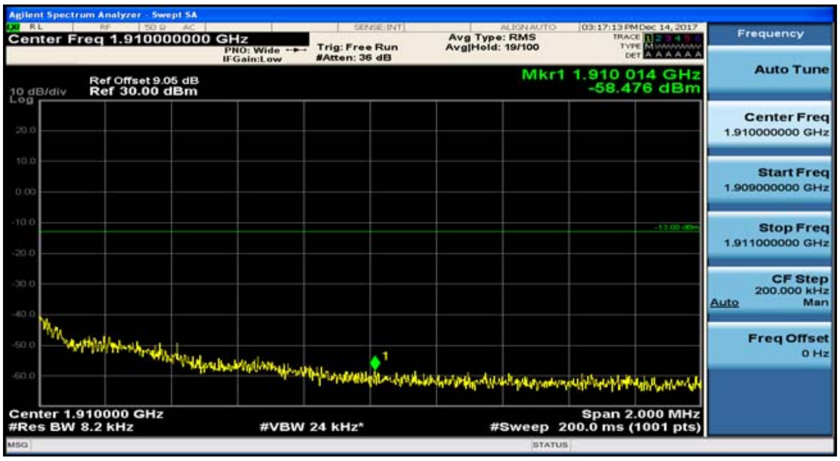
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



Agilent Spectrum Analyzer - Swept SA
03:17:07 PM Dec 14, 2017
Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 318 GHz -53.165 dBm
Center 1.910000 GHz
#Res BW 8.2 kHz
#VBW 24 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Auto
Man
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



Agilent Spectrum Analyzer - Swept SA

03:17:13 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

Ref Offset 9.05 dB

10 dB/div Log Ref 30.00 dBm

Mkr1 1.910 014 GHz -58.476 dBm

Center 1.910000 GHz

#Res BW 8.2 kHz

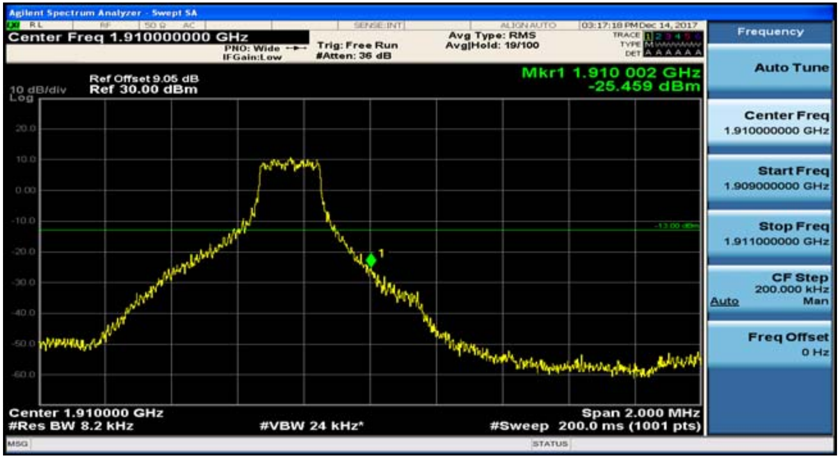
#VBW 24 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



Agilent Spectrum Analyzer - Swept SA

03:17:18 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

Ref Offset 9.05 dB

10 dB/div Log Ref 30.00 dBm

Mkr1 1.910 002 GHz -25.459 dBm

Center 1.910000 GHz

#Res BW 8.2 kHz

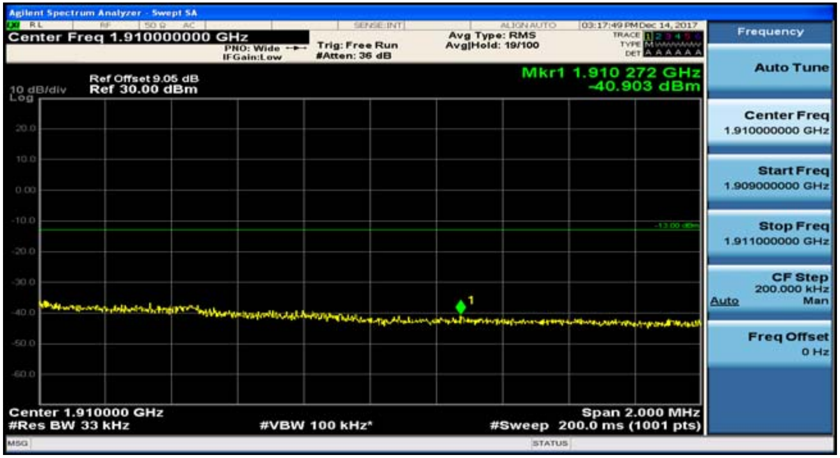
#VBW 24 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



Agilent Spectrum Analyzer - Swept SA

03:17:49 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

Ref Offset 9.05 dB

10 dB/div Log Ref 30.00 dBm

Mkr1 1.910 272 GHz -40.903 dBm

Center 1.910000 GHz

#Res BW 33 kHz

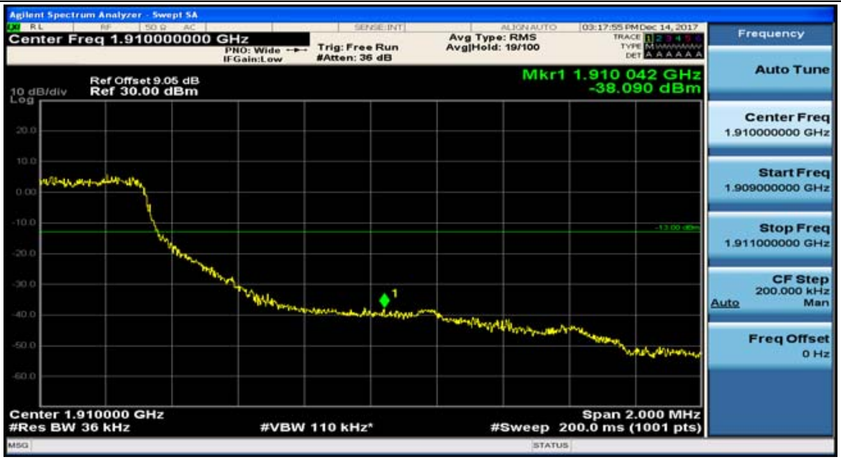
#VBW 100 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4


Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 19/100

03:17:55 PM Dec 14, 2017

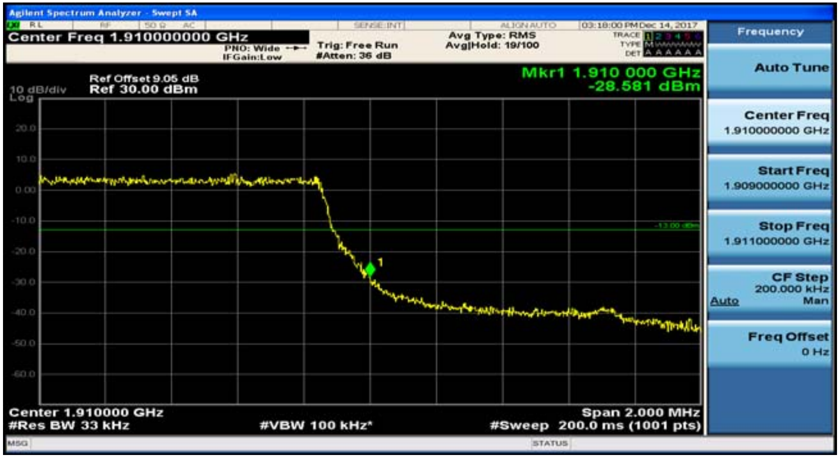
Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log

Mkr1 1.910 042 GHz -38.090 dBm

Center 1.910000 GHz #Res BW 36 kHz #VBW 110 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Frequency: Auto Tune; Center Freq 1.910000000 GHz; Start Freq 1.909000000 GHz; Stop Freq 1.911000000 GHz; CF Step 200.000 kHz Auto Man; Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7


Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 19/100

03:18:00 PM Dec 14, 2017

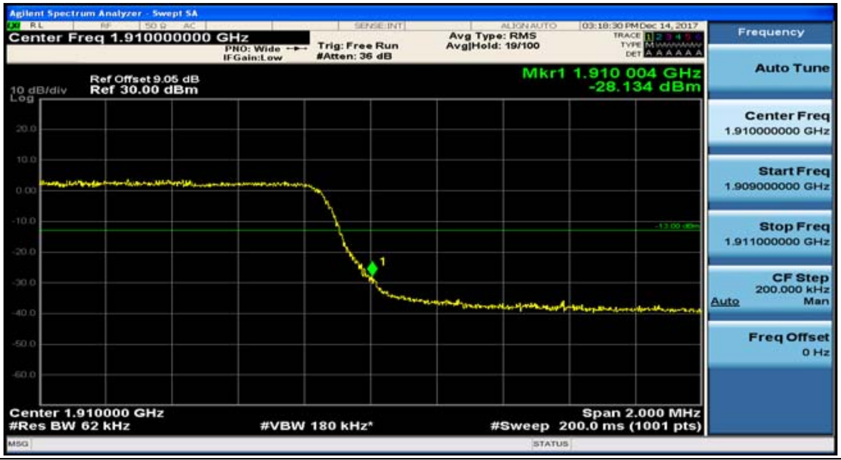
Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log

Mkr1 1.910 000 GHz -28.581 dBm

Center 1.910000 GHz #Res BW 33 kHz #VBW 100 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Frequency: Auto Tune; Center Freq 1.910000000 GHz; Start Freq 1.909000000 GHz; Stop Freq 1.911000000 GHz; CF Step 200.000 kHz Auto Man; Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0


Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB Avg Type: RMS Avg|Hold: 19/100

03:18:30 PM Dec 14, 2017

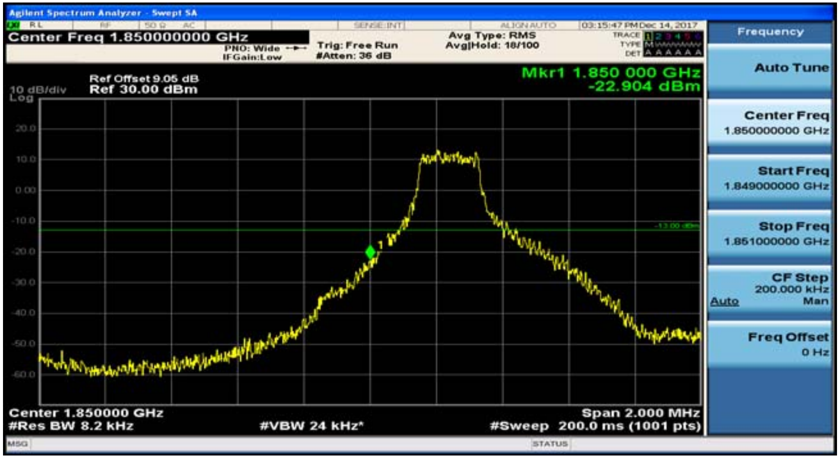
Ref Offset 9.05 dB Ref 30.00 dBm 10 dB/div Log

Mkr1 1.910 004 GHz -28.134 dBm

Center 1.910000 GHz #Res BW 62 kHz #VBW 180 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Frequency: Auto Tune; Center Freq 1.910000000 GHz; Start Freq 1.909000000 GHz; Stop Freq 1.911000000 GHz; CF Step 200.000 kHz Auto Man; Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 18/100
03:15:47 PM Dec 14, 2017

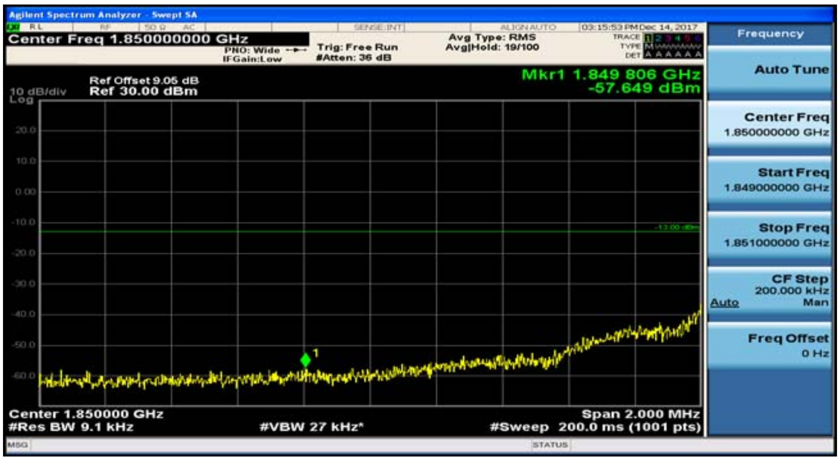
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.850 000 GHz -22.904 dBm

Center 1.850000 GHz
#Res BW 8.2 kHz
#VBW 24 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

Frequency
Auto Tune
Auto
Man
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:15:53 PM Dec 14, 2017

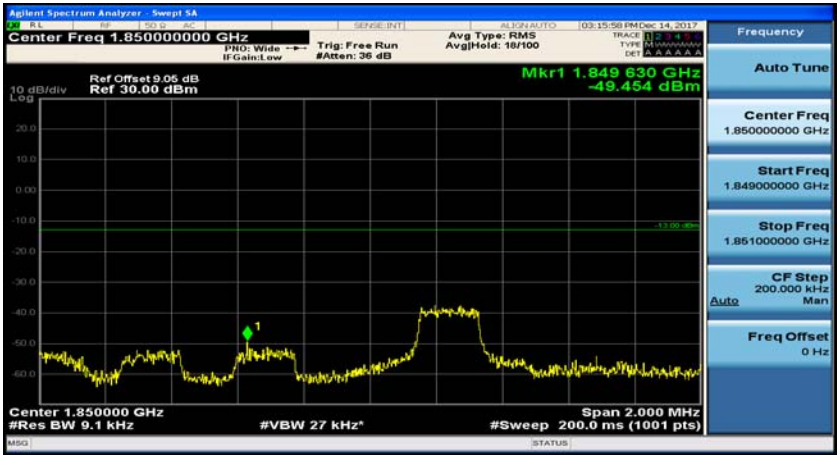
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.849 806 GHz -57.649 dBm

Center 1.850000 GHz
#Res BW 9.1 kHz
#VBW 27 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

Frequency
Auto Tune
Auto
Man
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 18/100
03:15:58 PM Dec 14, 2017

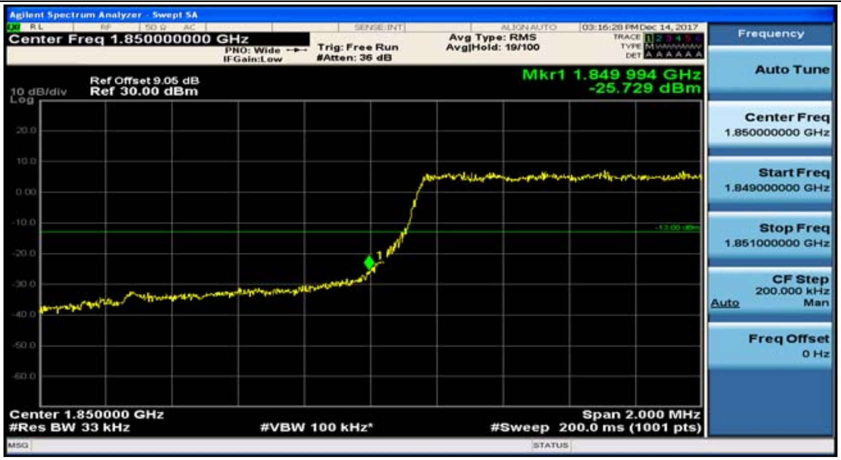
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.849 630 GHz -49.454 dBm

Center 1.850000 GHz
#Res BW 9.1 kHz
#VBW 27 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)

Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

Frequency
Auto Tune
Auto
Man
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

03:16:28 PM Dec 14, 2017

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.849 994 GHz

-25.729 dBm

Center 1.850000 GHz

#Res BW 33 kHz

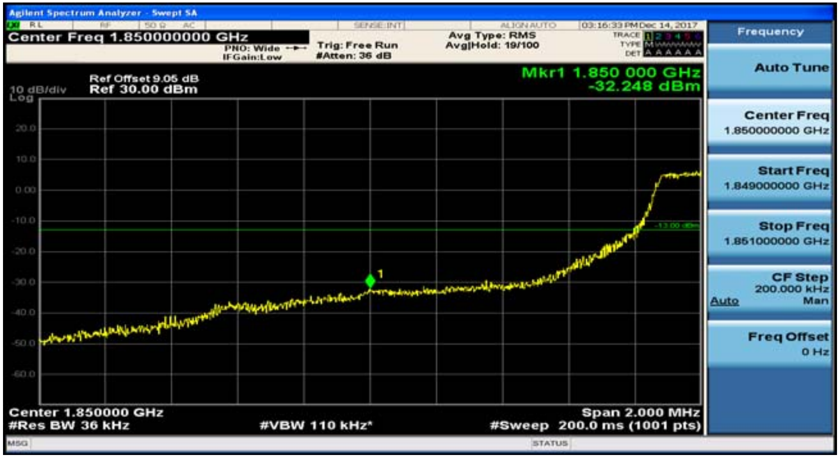
#VBW 100 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

03:16:33 PM Dec 14, 2017

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.850 000 GHz

-32.248 dBm

Center 1.850000 GHz

#Res BW 36 kHz

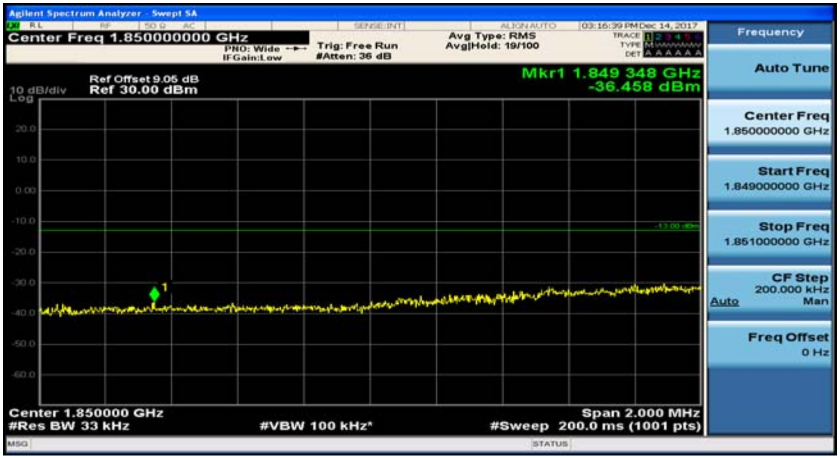
#VBW 110 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.850000000 GHz

PNO: Wide

IFGain:Low

Trig: Free Run

#Atten: 36 dB

Avg Type: RMS

Avg|Hold: 19/100

03:16:39 PM Dec 14, 2017

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 1.849 348 GHz

-36.458 dBm

Center 1.850000 GHz

#Res BW 33 kHz

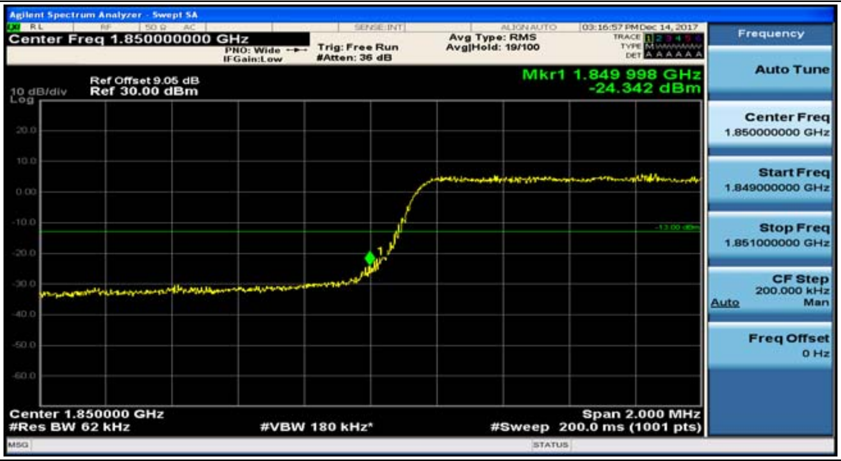
#VBW 100 kHz*

Span 2.000 MHz

#Sweep 200.0 ms (1001 pts)

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Center Freq 1.850000000 GHz
Start Freq 1.849000000 GHz
Stop Freq 1.851000000 GHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz
MSG
STATUS

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



Agilent Spectrum Analyzer - Swept SA

03:16:57 PM Dec 14, 2017

Center Freq 1.850000000 GHz

PNO: Wide IFGain:Low

Trig: Free Run #Atten: 36 dB

Avg Type: RMS Avg|Hold: 19/100

Ref Offset 9.05 dB Ref 30.00 dBm

Mkr1 1.849 998 GHz -24.342 dBm

Center 1.850000 GHz #Res BW 62 kHz #VBW 180 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Center Freq 1.850000000 GHz

Start Freq 1.849000000 GHz

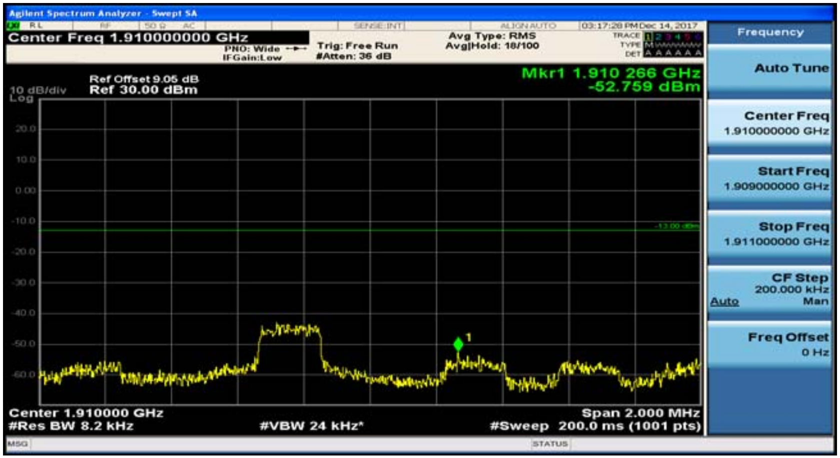
Stop Freq 1.851000000 GHz

CF Step 200.000 kHz

Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Auto
Man
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



Agilent Spectrum Analyzer - Swept SA

03:17:28 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide IFGain:Low

Trig: Free Run #Atten: 36 dB

Avg Type: RMS Avg|Hold: 18/100

Ref Offset 9.05 dB Ref 30.00 dBm

Mkr1 1.910 266 GHz -52.759 dBm

Center 1.910000 GHz #Res BW 8.2 kHz #VBW 24 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Center Freq 1.910000000 GHz

Start Freq 1.909000000 GHz

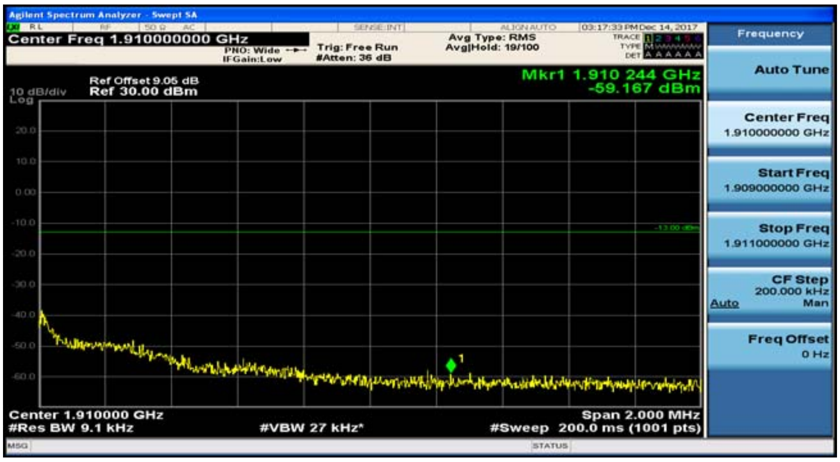
Stop Freq 1.911000000 GHz

CF Step 200.000 kHz

Freq Offset 0 Hz

RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Auto
Man
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



Agilent Spectrum Analyzer - Swept SA

03:17:33 PM Dec 14, 2017

Center Freq 1.910000000 GHz

PNO: Wide IFGain:Low

Trig: Free Run #Atten: 36 dB

Avg Type: RMS Avg|Hold: 19/100

Ref Offset 9.05 dB Ref 30.00 dBm

Mkr1 1.910 244 GHz -59.167 dBm

Center 1.910000 GHz #Res BW 9.1 kHz #VBW 27 kHz* Span 2.000 MHz #Sweep 200.0 ms (1001 pts)

Center Freq 1.910000000 GHz

Start Freq 1.909000000 GHz

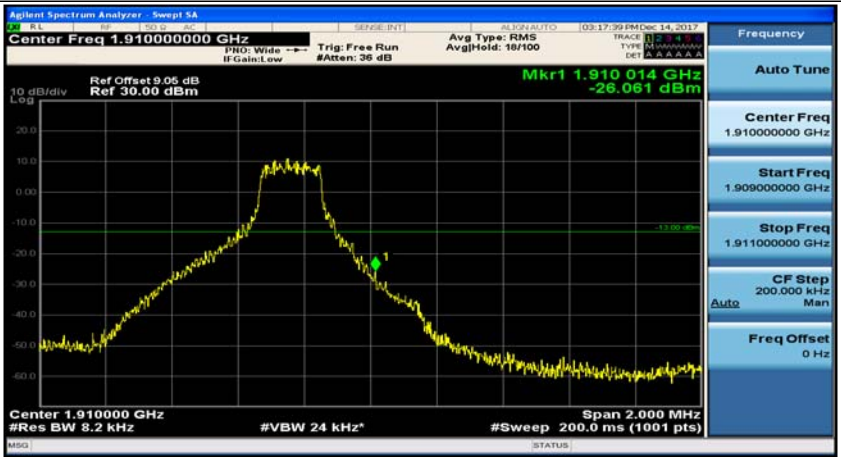
Stop Freq 1.911000000 GHz

CF Step 200.000 kHz

Freq Offset 0 Hz

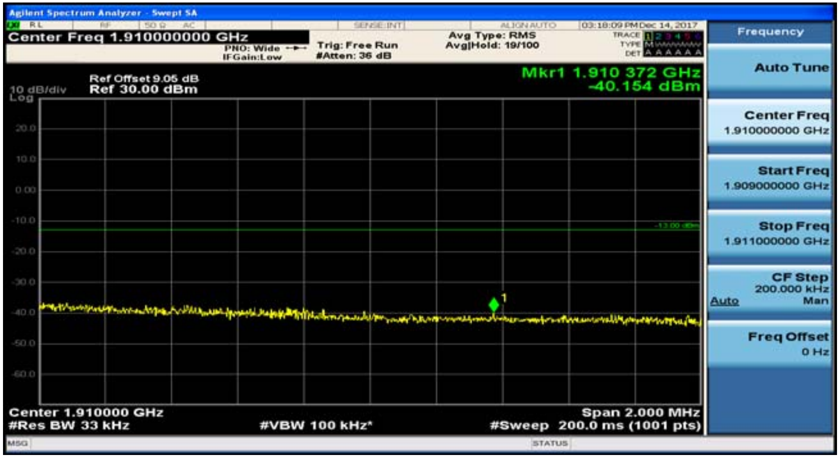
RL
RF
50 Ω
AC
SENSE:INT
ALIGN AUTO
TRACE 1 2 3 4 5 6
TYPE M
DET A A A A A A
10 dB/div
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Frequency
Auto Tune
Auto
Man
MSG
STATUS

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14


Agilent Spectrum Analyzer - Swept SA
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS
Frequency
Auto Tune

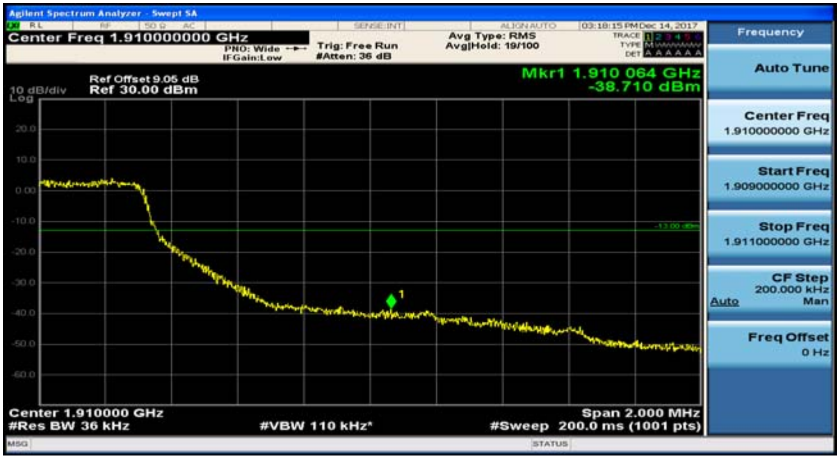
Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 18/100
03:17:39 PM Dec 14, 2017
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 014 GHz
-26.061 dBm
Center 1.910000 GHz
#Res BW 8.2 kHz
#VBW 24 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0


Agilent Spectrum Analyzer - Swept SA
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS
Frequency
Auto Tune

Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:18:09 PM Dec 14, 2017
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 372 GHz
-40.154 dBm
Center 1.910000 GHz
#Res BW 33 kHz
#VBW 100 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4


Agilent Spectrum Analyzer - Swept SA
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
MSG
STATUS
Frequency
Auto Tune

Center Freq 1.910000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 19/100
03:18:15 PM Dec 14, 2017
Ref Offset 9.05 dB
10 dB/div Ref 30.00 dBm
Mkr1 1.910 064 GHz
-38.710 dBm
Center 1.910000 GHz
#Res BW 36 kHz
#VBW 110 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7