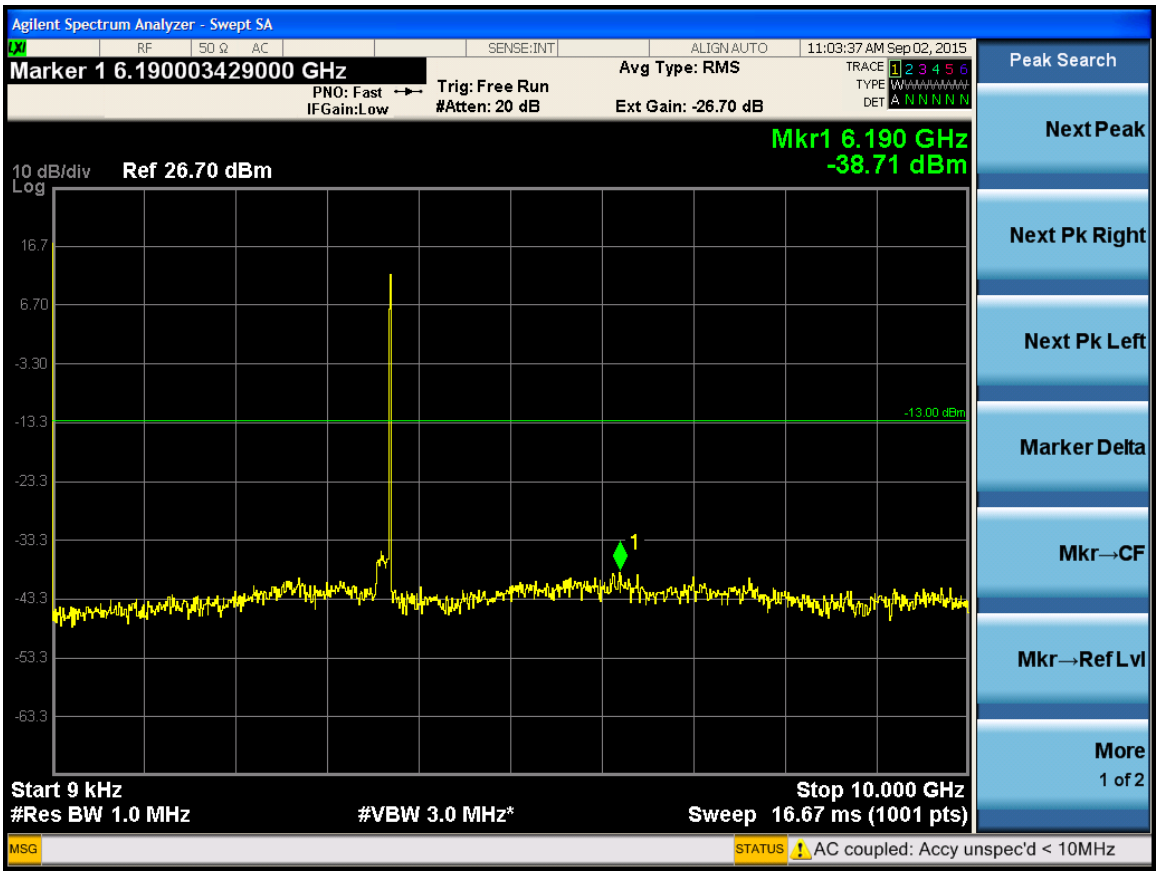
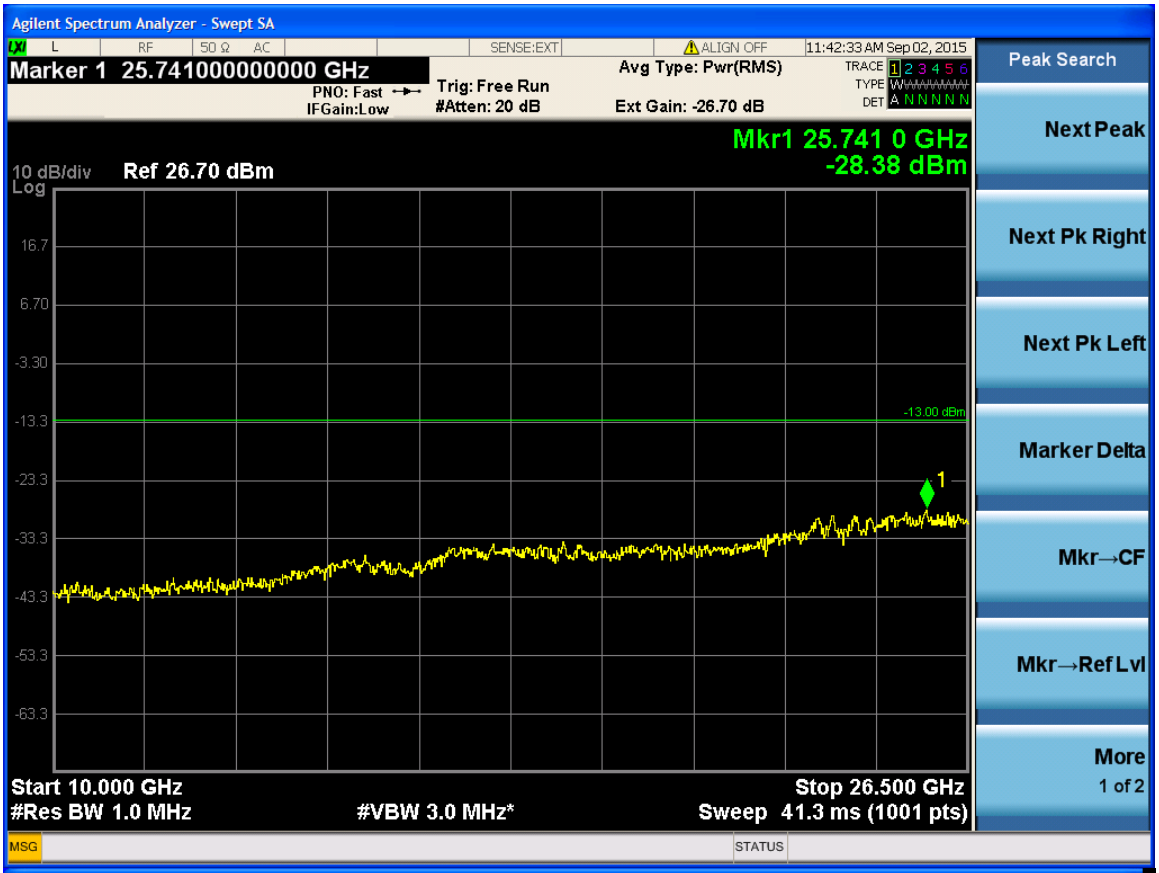
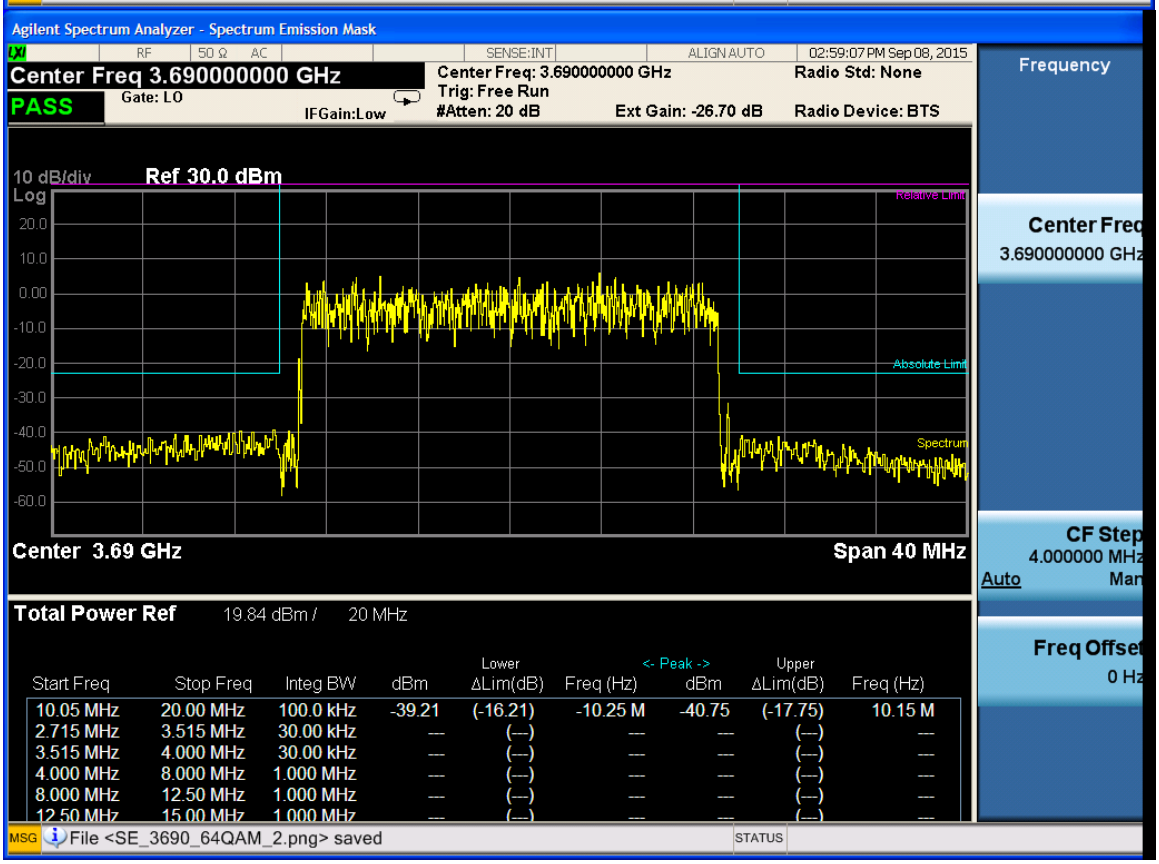
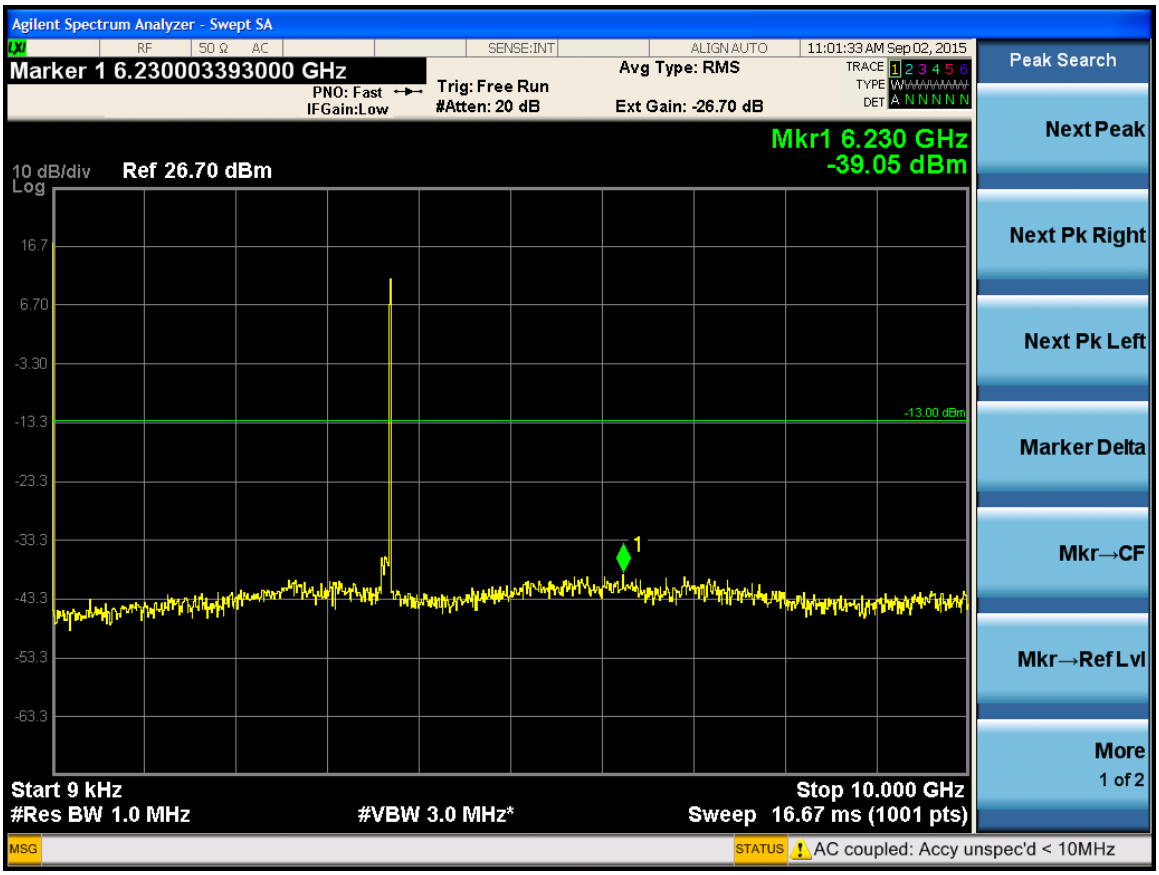
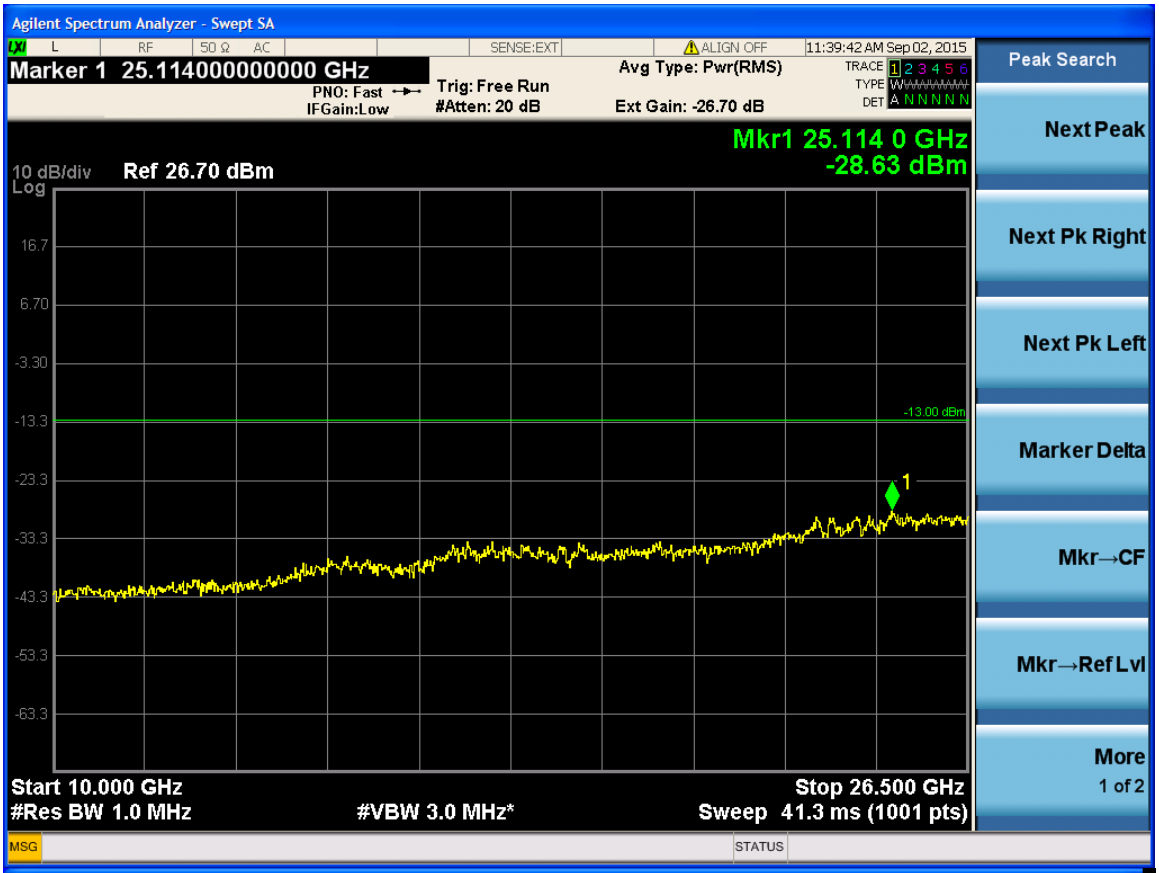
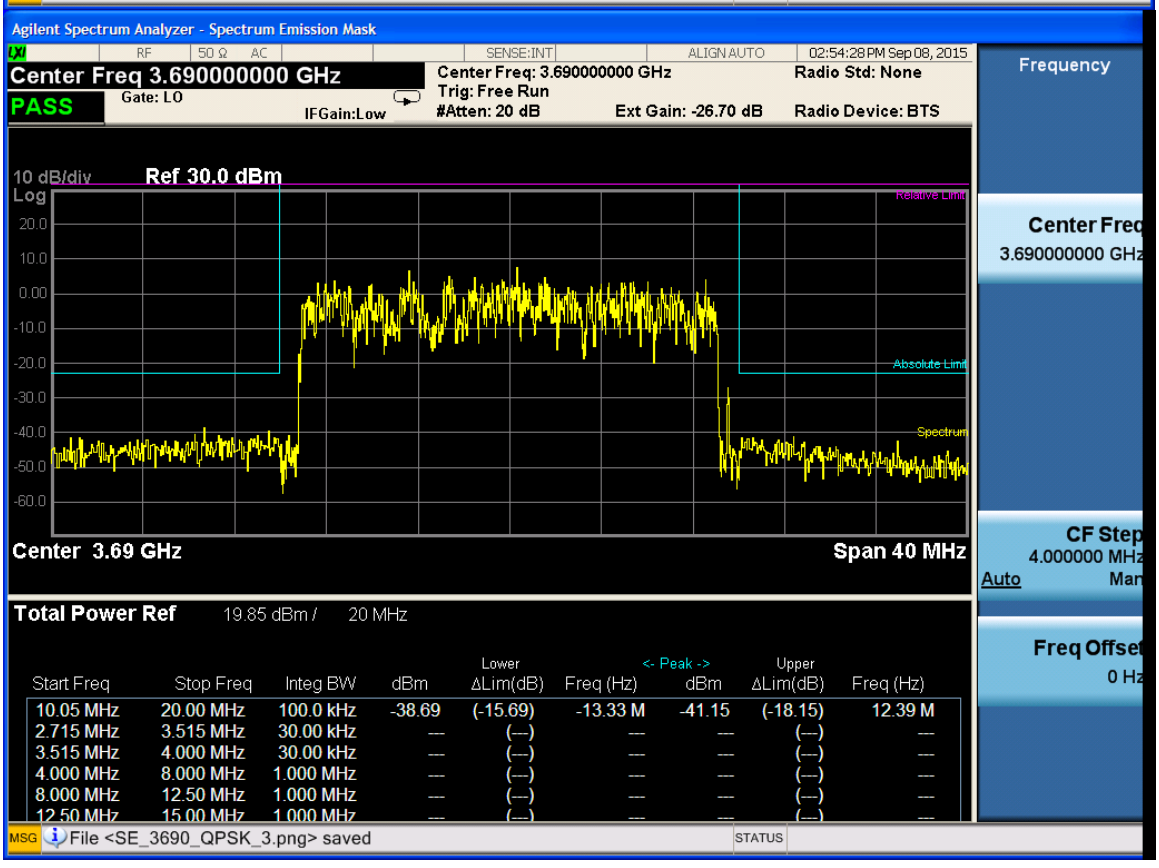

Agilent Spectrum Analyzer - Swept SA
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
11:03:37 AM Sep 02, 2015
Marker 1 6.190003429000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 6.190 GHz
-38.71 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz

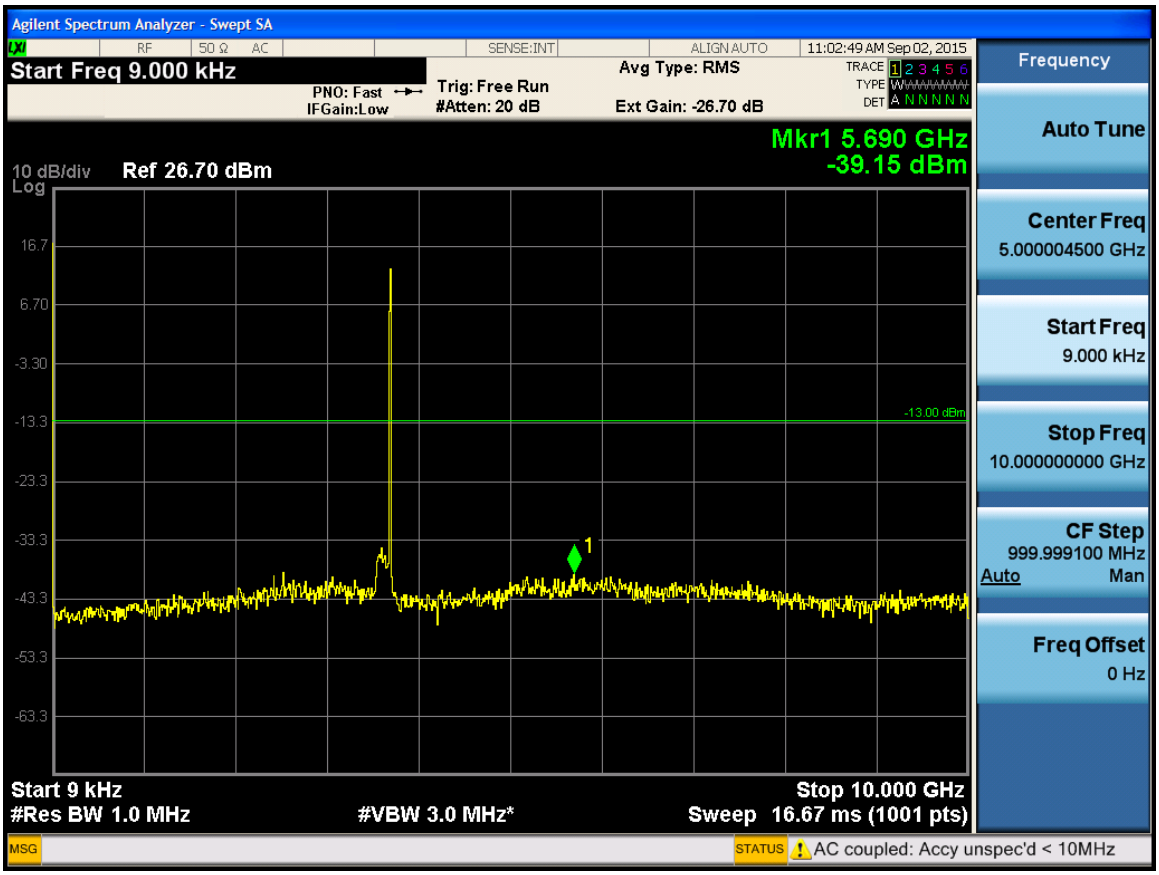

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.741000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
11:42:33 AM Sep 02, 2015
Mkr1 25.741 0 GHz
-28.38 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

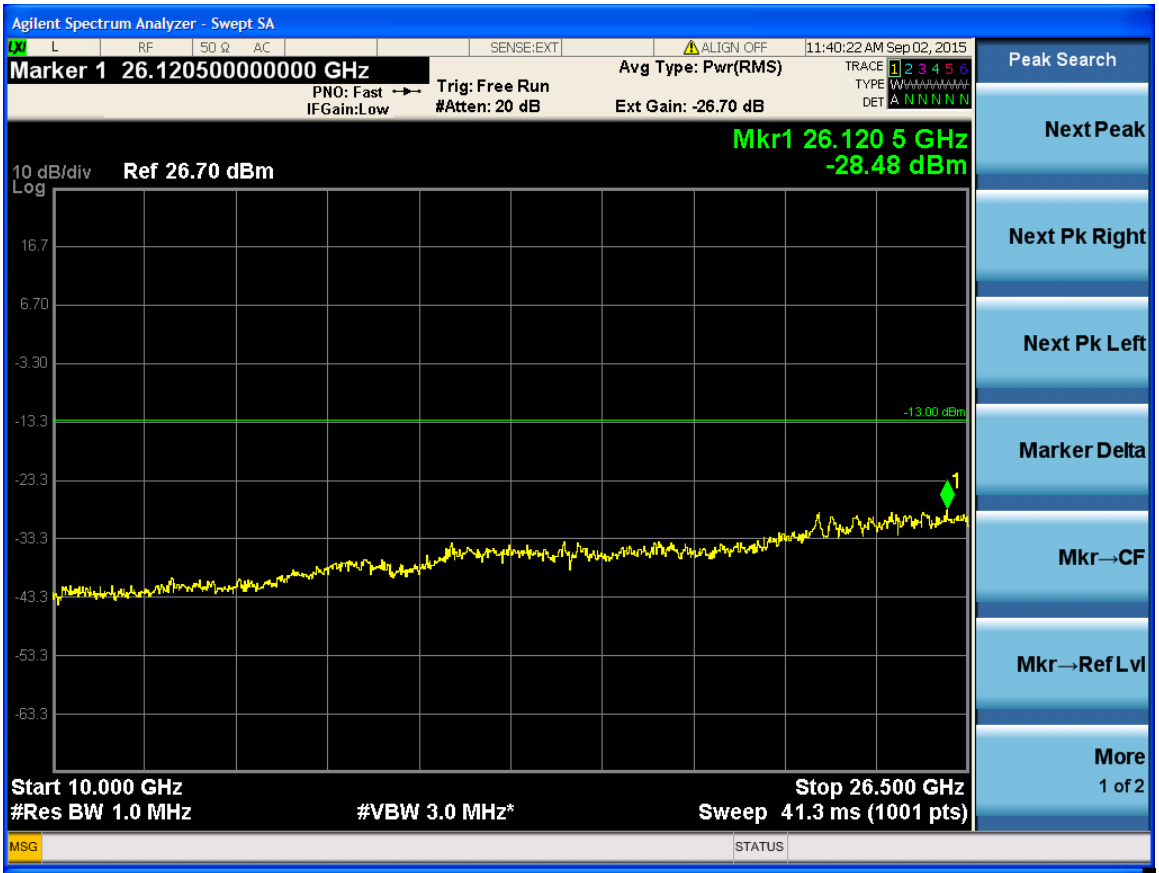

Agilent Spectrum Analyzer - Spectrum Emission Mask
Center Freq 3.690000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.690000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
02:59:07 PM Sep 08, 2015
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30.0 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Relative Limit
Absolute Limit
Spectrum
Center 3.69 GHz
Span 40 MHz
Total Power Ref 19.84 dBm / 20 MHz
Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) <- Peak -> dBm Upper ΔLim(dB) Freq (Hz)
10.05 MHz 20.00 MHz 100.0 kHz -39.21 (-16.21) -10.25 M -40.75 (-17.75) 10.15 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
Frequency
Center Freq
3.690000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
File <SE_3690_64QAM_2.png> saved
STATUS

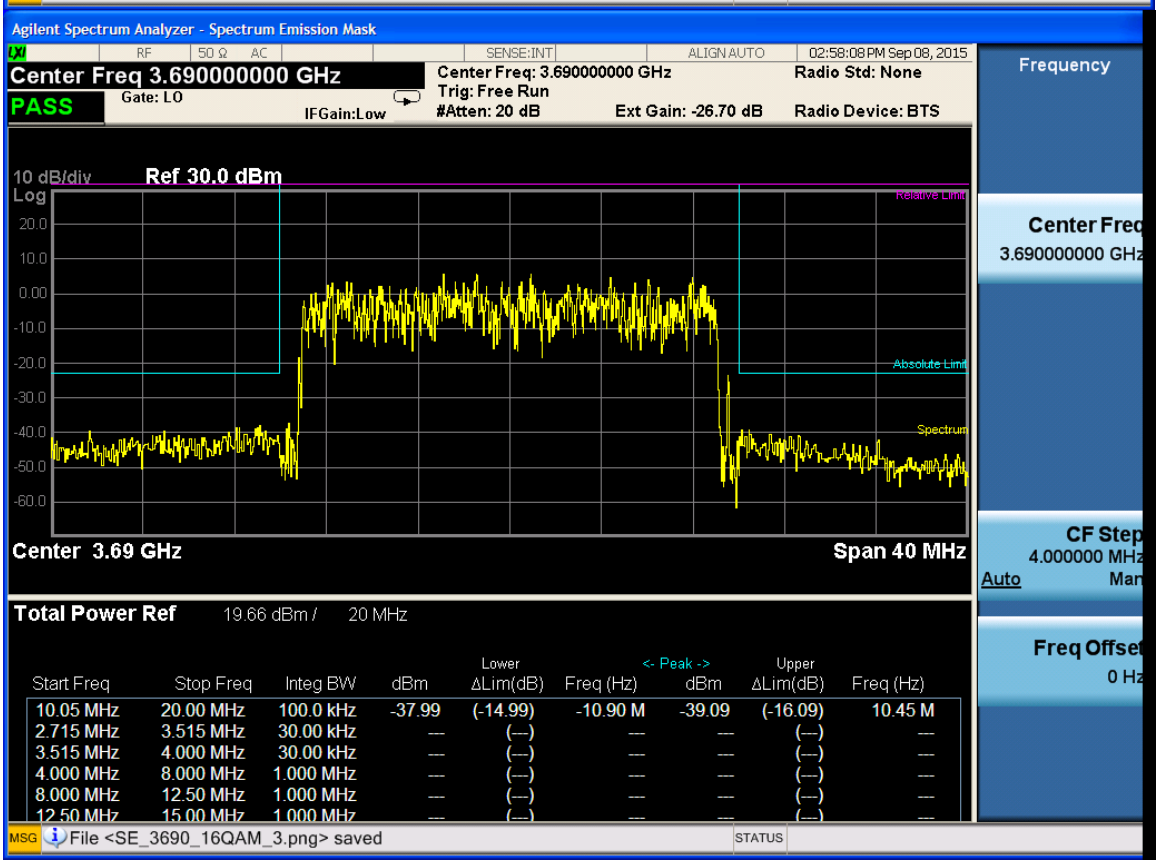

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:01:33 AM Sep 02, 2015
Marker 1 6.230003393000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 6.230 GHz
-39.05 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

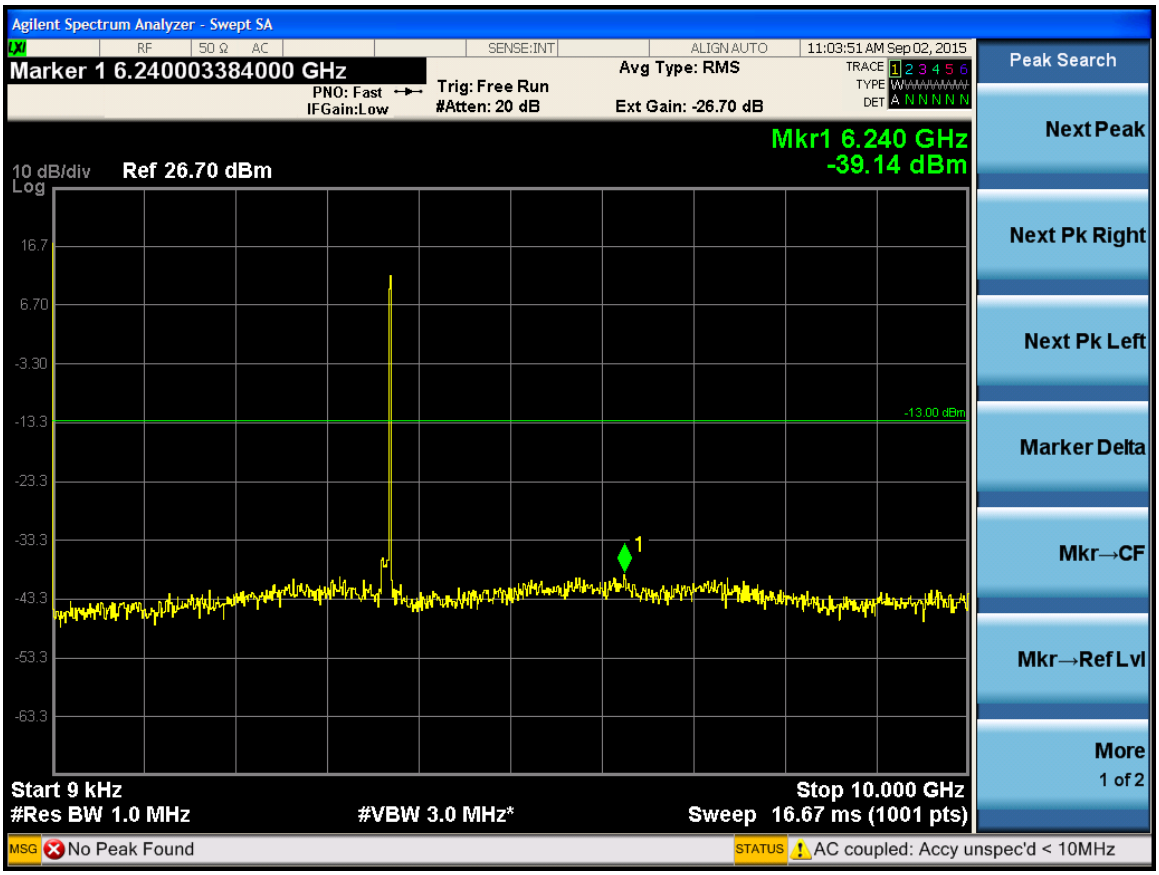

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.114000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
11:39:42 AM Sep 02, 2015
Mkr1 25.114 0 GHz
-28.63 dBm
10 dB/div
Log
Ref 26.70 dBm
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

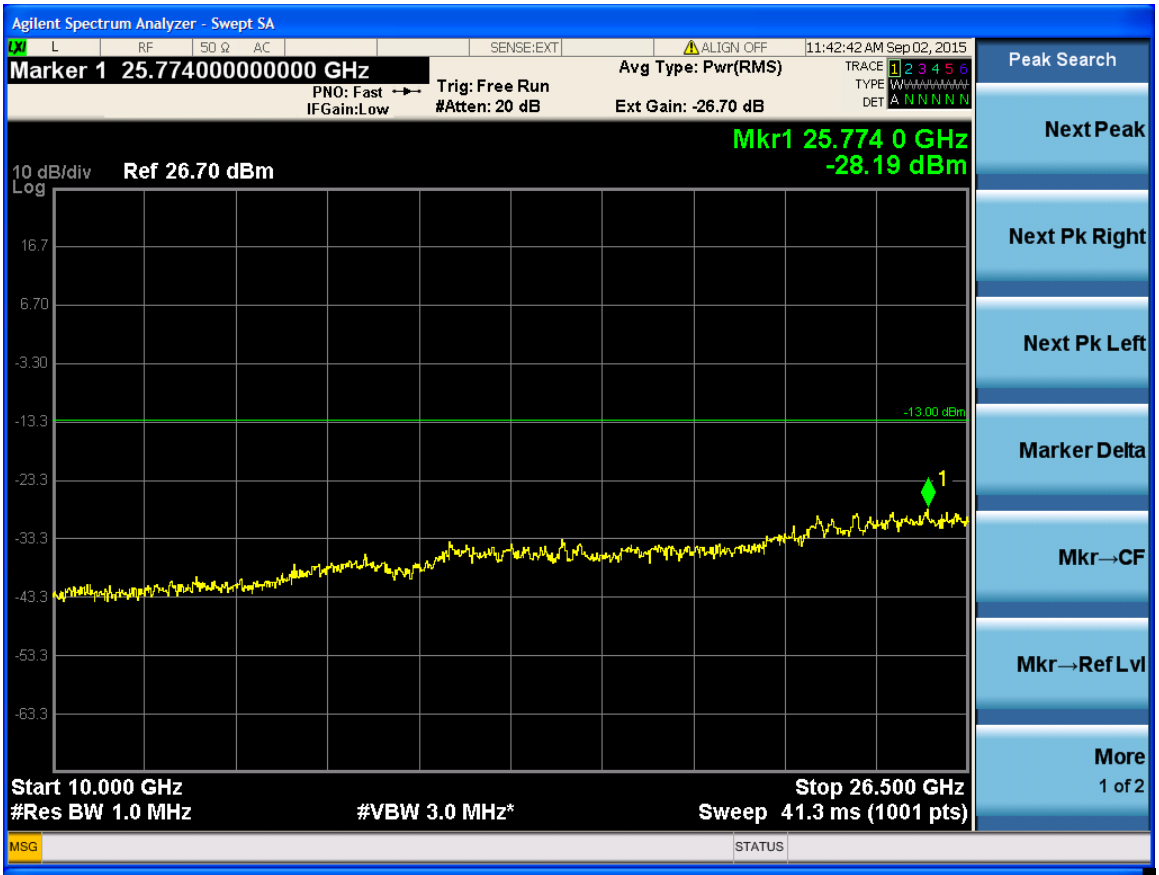

Agilent Spectrum Analyzer - Spectrum Emission Mask
Center Freq 3.690000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.690000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
02:54:28 PM Sep 08, 2015
10 dB/div
Log
Ref 30.0 dBm
Relative Limit
Absolute Limit
Spectrum
Center 3.69 GHz
Span 40 MHz
Total Power Ref 19.85 dBm / 20 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
10.05 MHz | 20.00 MHz | 100.0 kHz | -38.69 | (-15.69) | -13.33 M | -41.15 | (-18.15) | 12.39 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
Frequency
Center Freq
3.690000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
File <SE_3690_QPSK_3.png> saved
STATUS

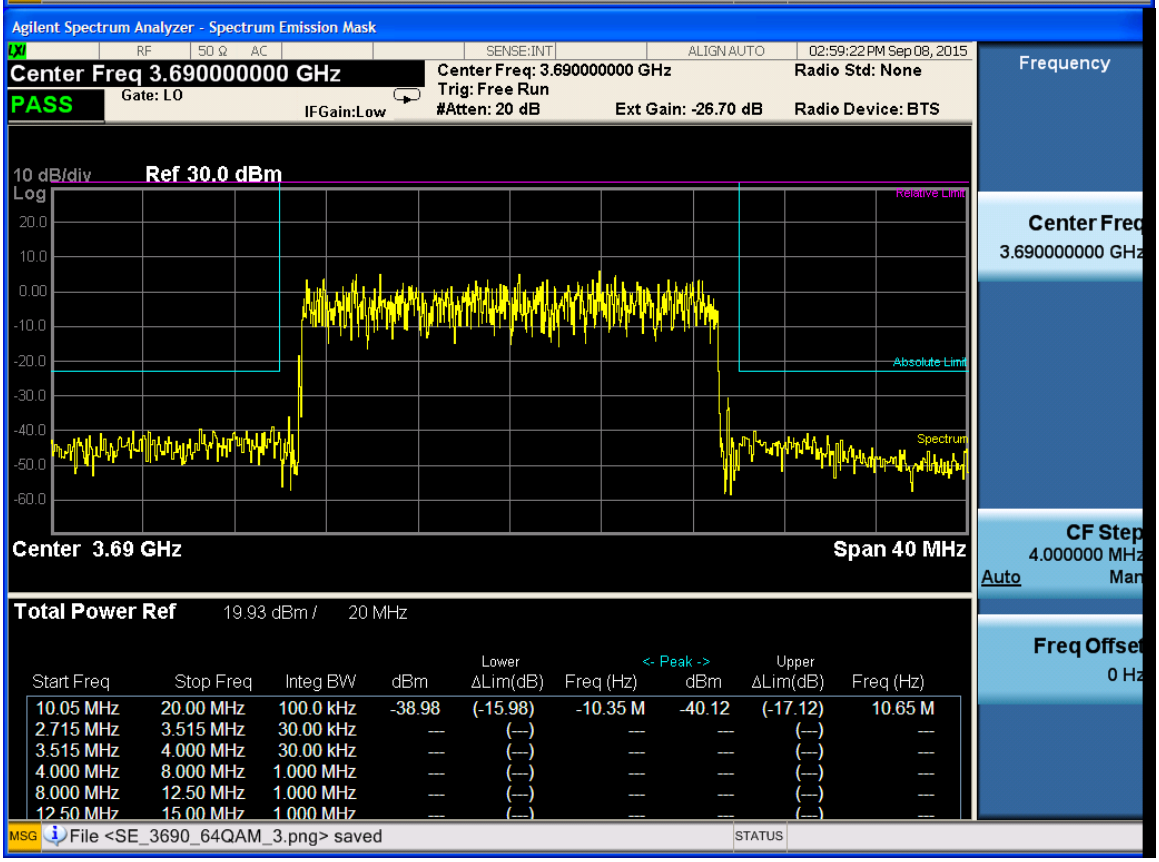

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:02:49 AM Sep 02, 2015
Start Freq 9.000 kHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET A N N N N N
Mkr1 5.690 GHz
-39.15 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

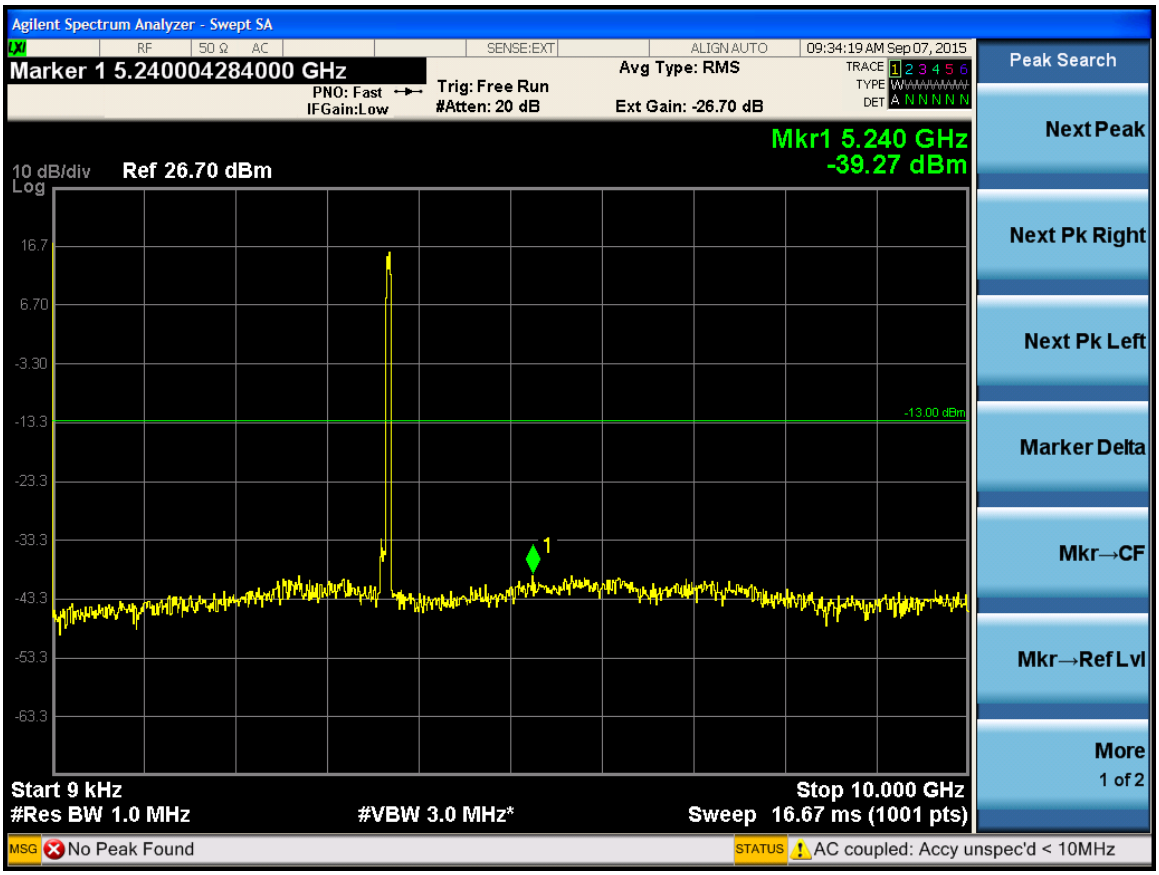

Agilent Spectrum Analyzer - Swept SA
Marker 1 26.120500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
11:40:22 AM Sep 02, 2015
Mkr1 26.120 5 GHz
-28.48 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

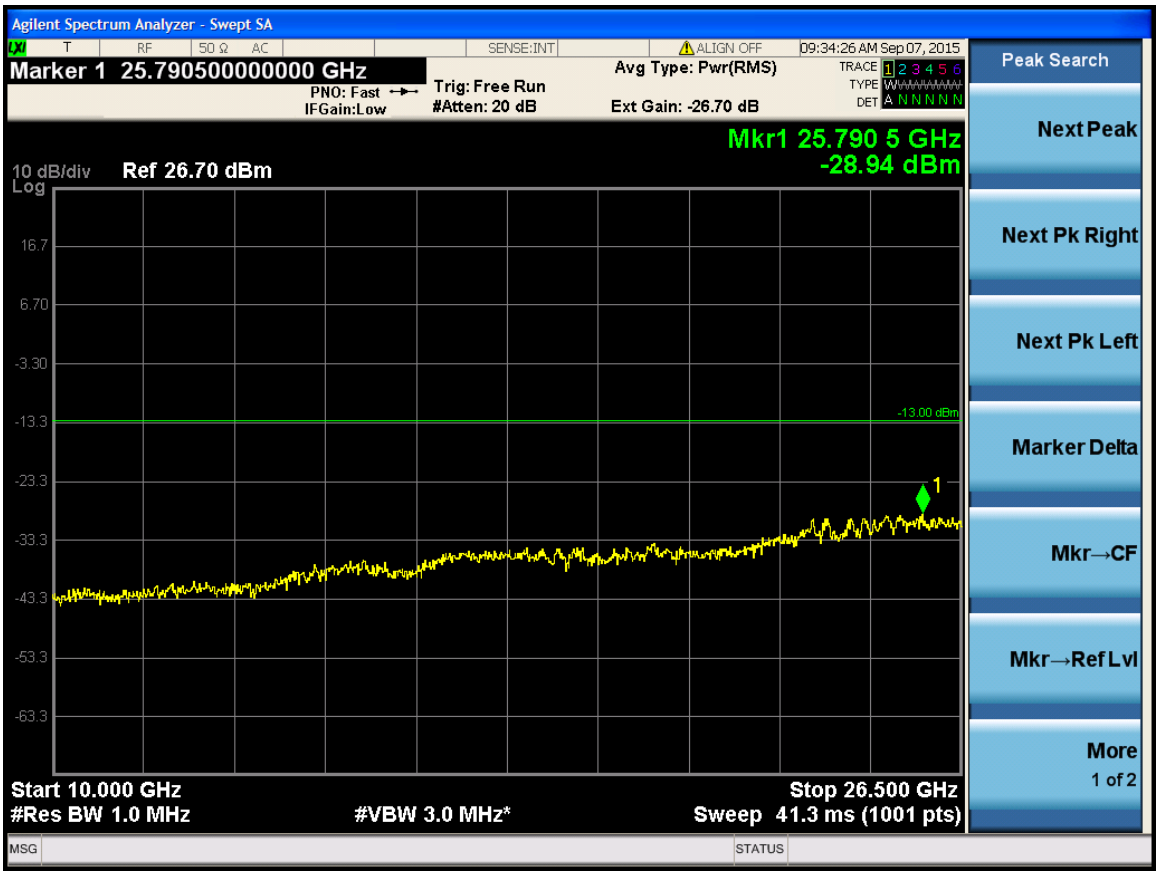

Agilent Spectrum Analyzer - Spectrum Emission Mask
Center Freq 3.690000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.690000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
02:58:08 PM Sep 08, 2015
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30.0 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Relative Limit
Absolute Limit
Spectrum
Center 3.69 GHz
Span 40 MHz
Total Power Ref 19.66 dBm / 20 MHz
Start Freq Stop Freq Integ BW dBm Lower ΔLim(dB) Freq (Hz) <- Peak -> dBm Upper ΔLim(dB) Freq (Hz)
10.05 MHz 20.00 MHz 100.0 kHz -37.99 (-14.99) -10.90 M -39.09 (-16.09) 10.45 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
Frequency
Center Freq
3.690000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
File <SE_3690_16QAM_3.png> saved
STATUS

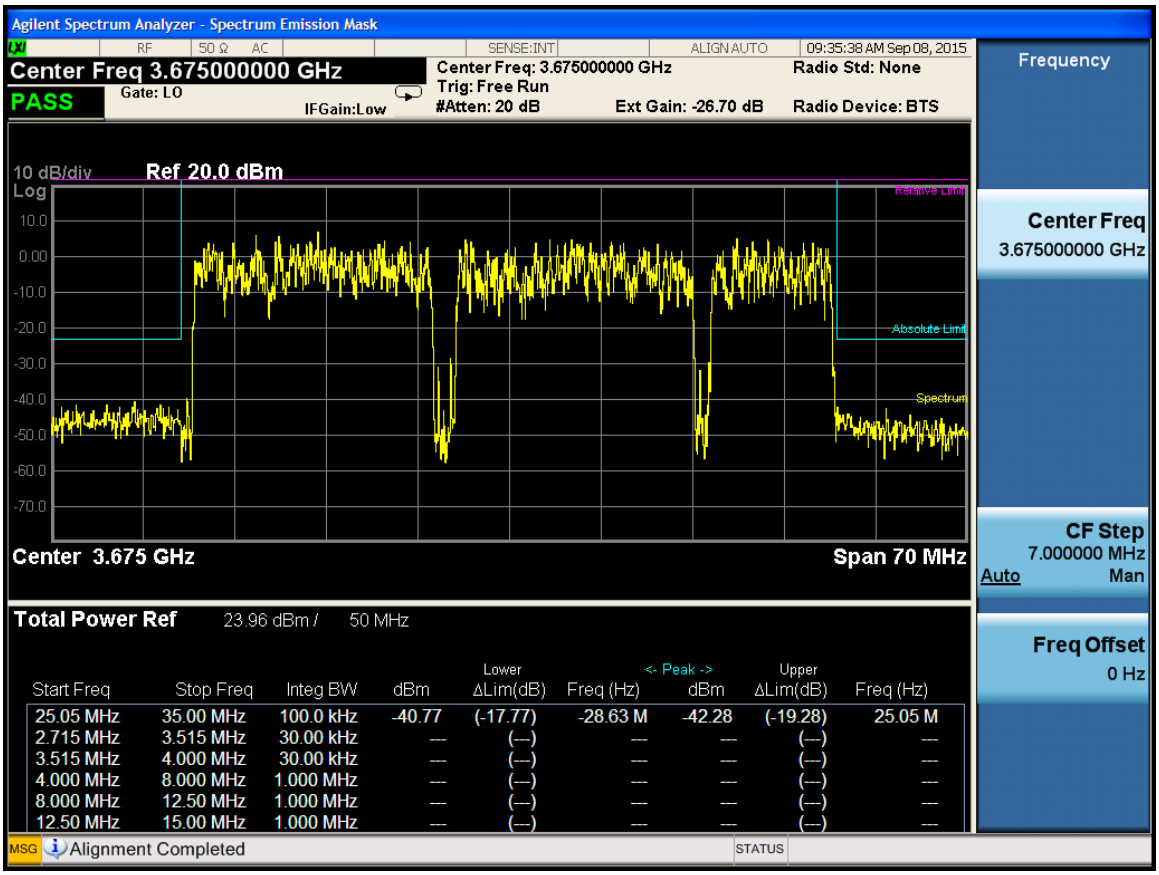

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
11:03:51 AM Sep 02, 2015
Marker 1 6.240003384000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 6.240 GHz
-39.14 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
No Peak Found
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

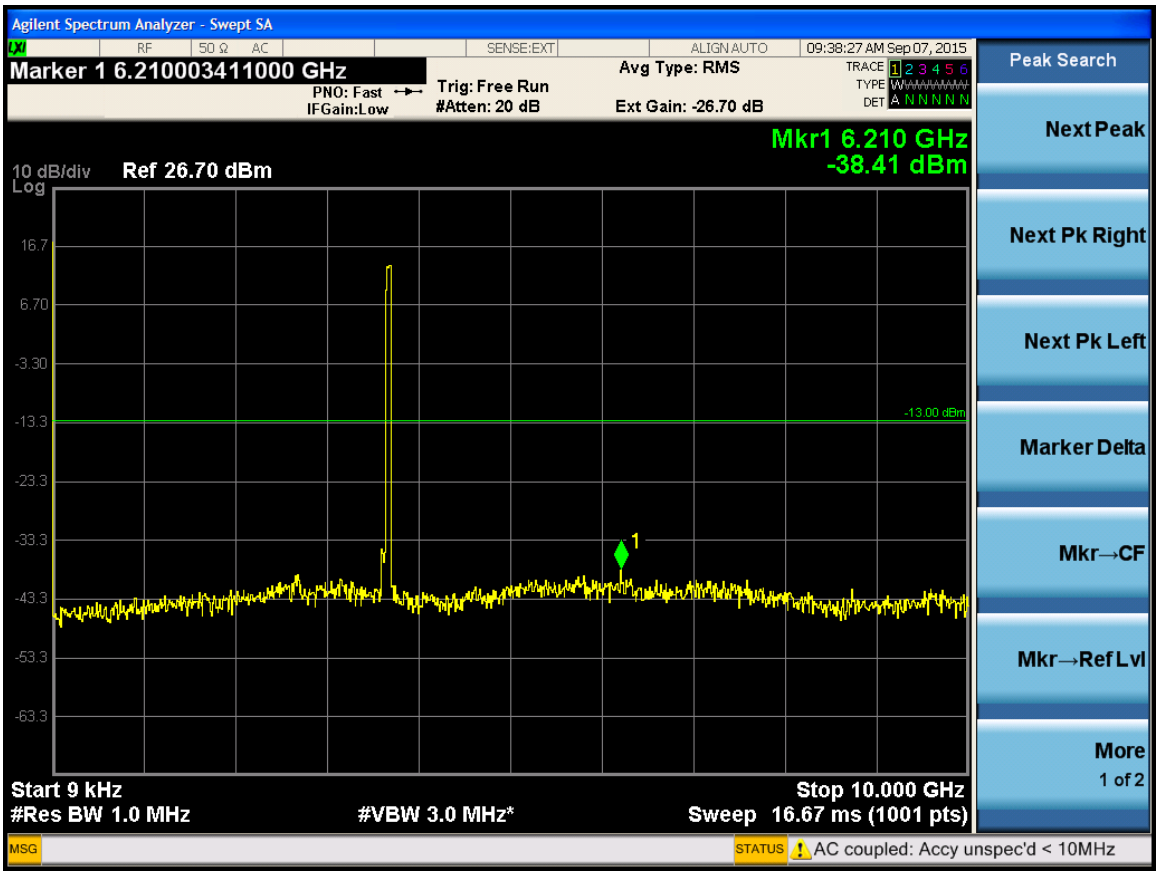

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.774000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
11:42:42 AM Sep 02, 2015
Mkr1 25.774 0 GHz
-28.19 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

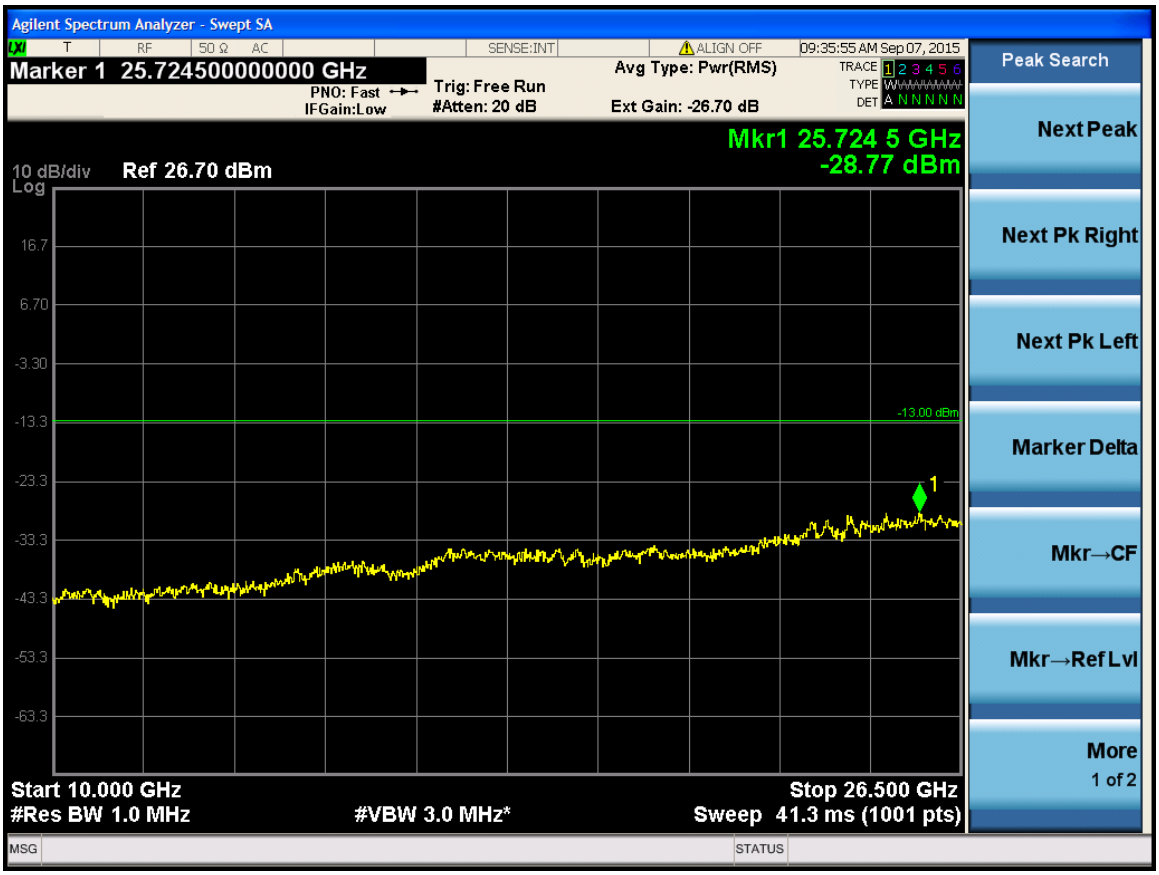

Agilent Spectrum Analyzer - Spectrum Emission Mask
Center Freq 3.690000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.690000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
02:59:22 PM Sep 08, 2015
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30.0 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Relative Limit
Absolute Limit
Spectrum
Center 3.69 GHz
Span 40 MHz
Total Power Ref 19.93 dBm / 20 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
10.05 MHz | 20.00 MHz | 100.0 kHz | -38.98 | (-15.98) | -10.35 M | -40.12 | (-17.12) | 10.65 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
Frequency
Center Freq
3.690000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
File <SE_3690_64QAM_3.png> saved
STATUS

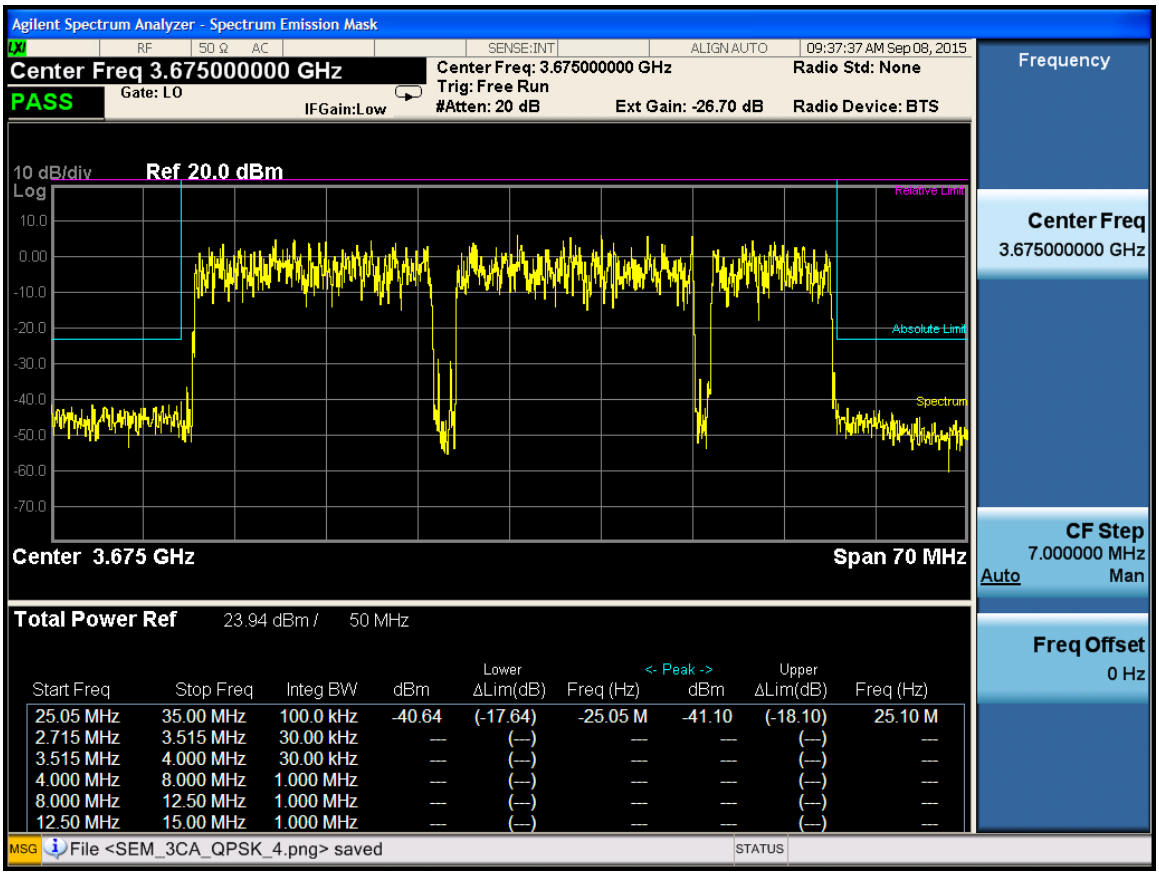

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:34:19 AM Sep 07, 2015
Marker 1 5.240004284000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.240 GHz
-39.27 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
No Peak Found
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

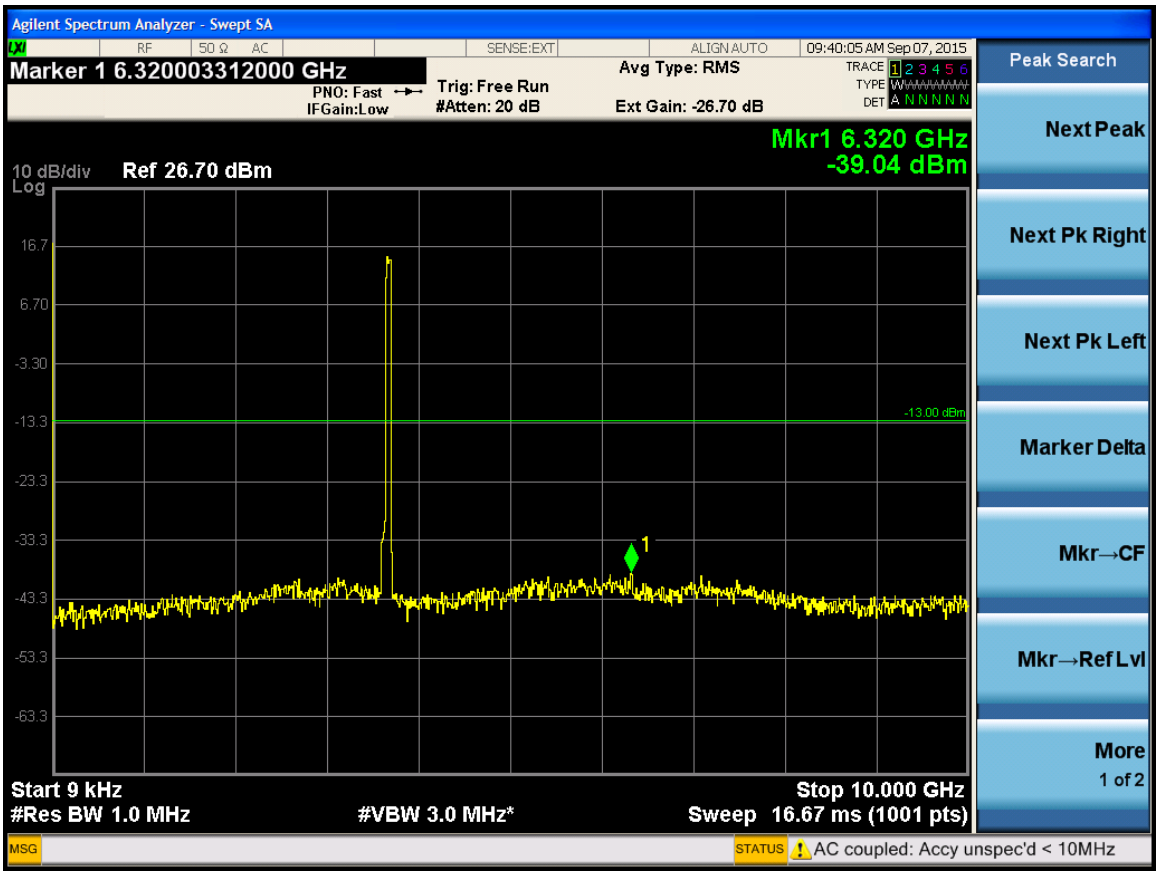

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN OFF
09:34:26 AM Sep 07, 2015
Marker 1 25.790500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.790 5 GHz
-28.94 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

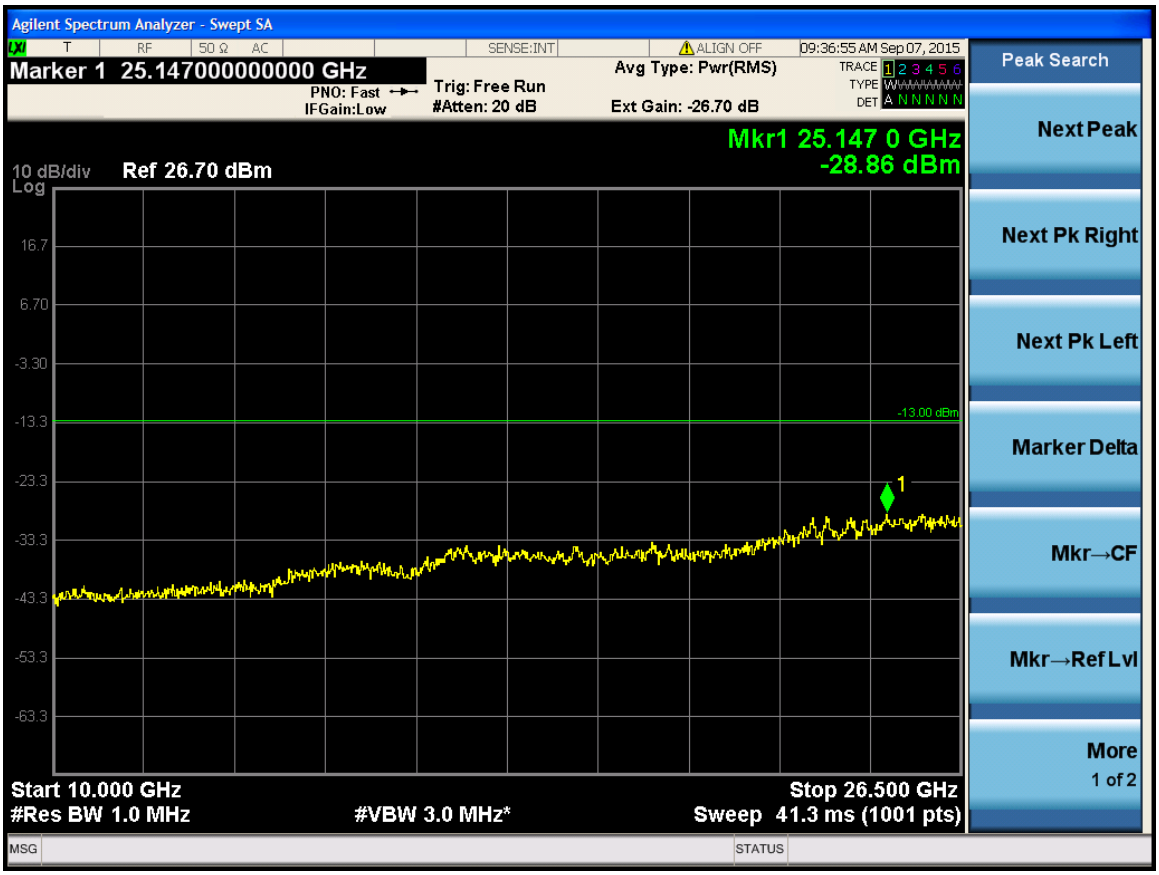

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:35:38 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.96 dBm / 50 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -40.77 | (-17.77) | -28.63 M | -42.28 | (-19.28) | 25.05 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
Alignment Completed
STATUS

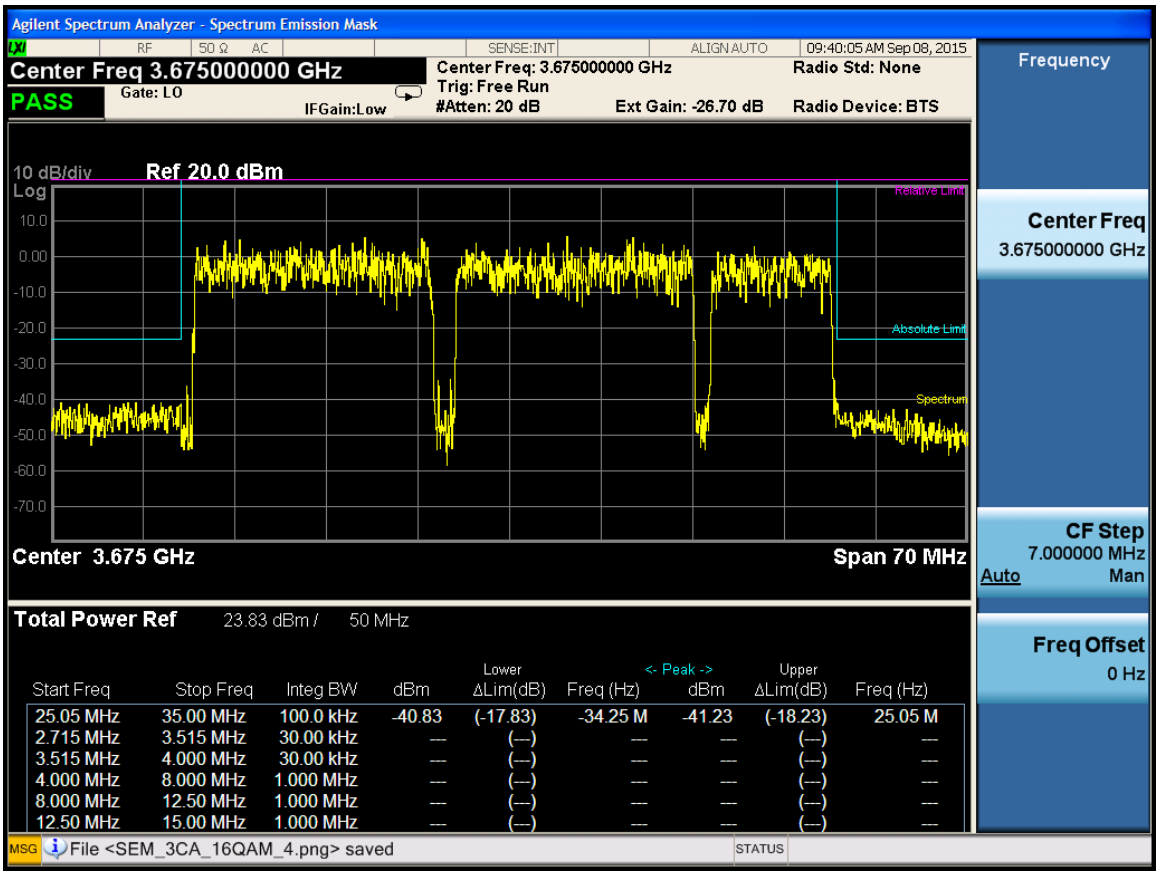

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:38:27 AM Sep 07, 2015
Marker 1 6.210003411000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE M
DET A N N N N N
Mkr1 6.210 GHz
-38.41 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

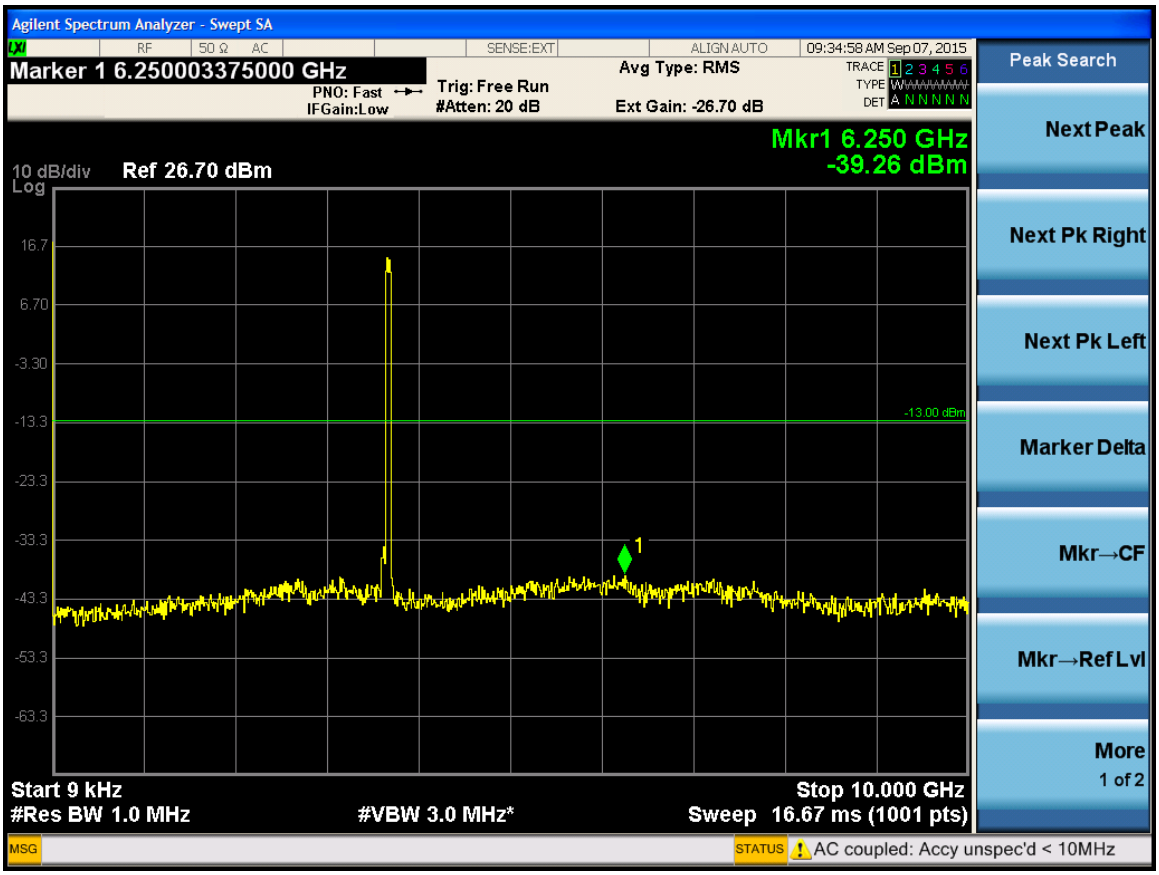

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN OFF
09:35:55 AM Sep 07, 2015
Marker 1 25.724500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET A N N N N N
Mkr1 25.724 5 GHz
-28.77 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

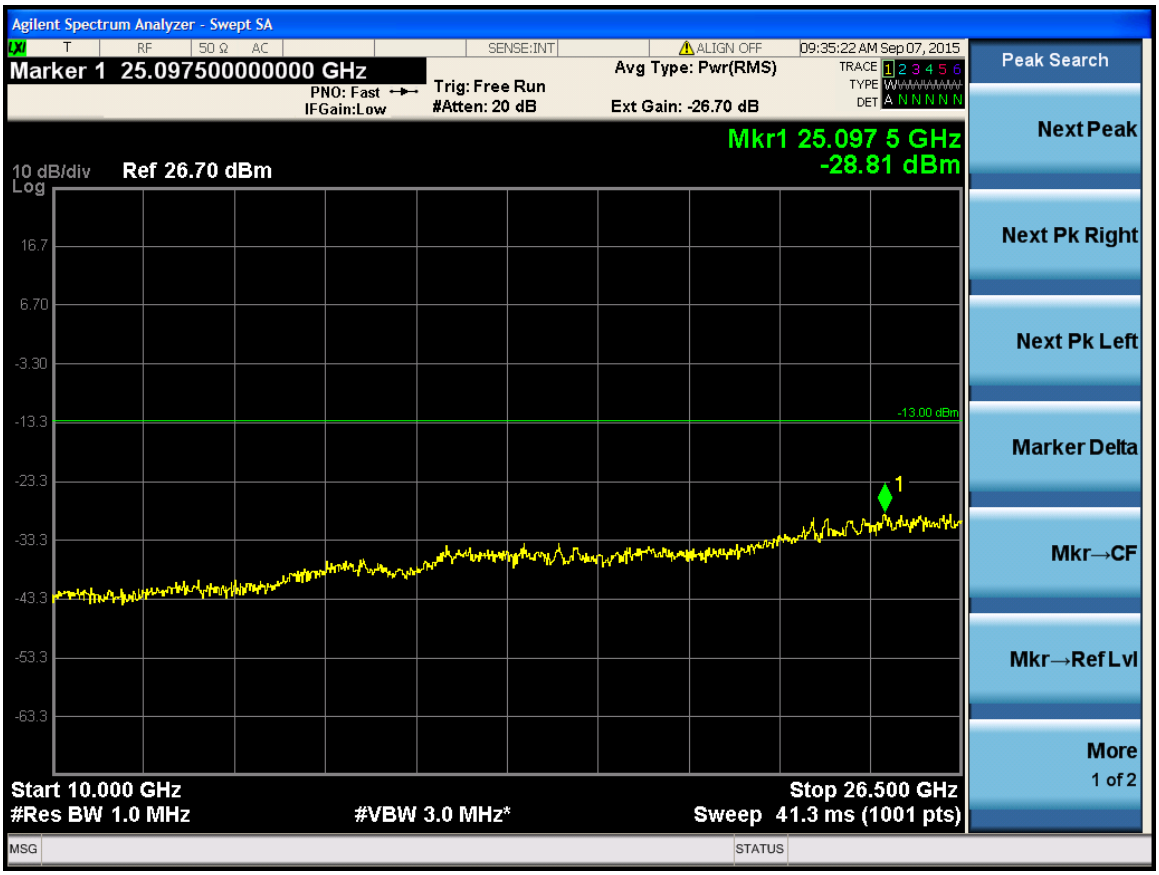

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:37:37 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
Relative Limit
Absolute Limit
Spectrum
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref
23.94 dBm / 50 MHz
Lower
<- Peak ->
Upper
Start Freq
Stop Freq
Integ BW
dBm
ΔLim(dB)
Freq (Hz)
dBm
ΔLim(dB)
Freq (Hz)
25.05 MHz 35.00 MHz 100.0 kHz -40.64 (-17.64) -25.05 M -41.10 (-18.10) 25.10 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
MSG
File <SEM_3CA_QPSK_4.png> saved
STATUS

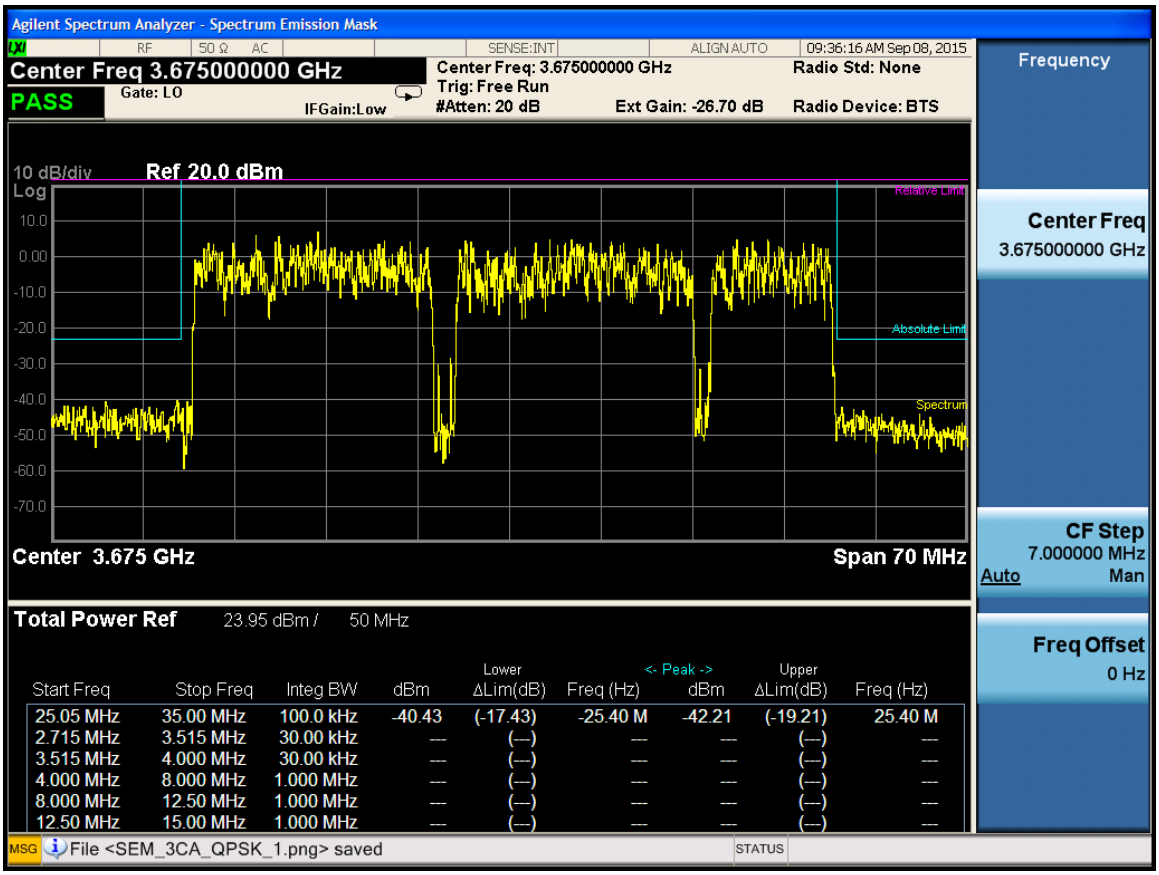

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:40:05 AM Sep 07, 2015
Marker 1 6.320003312000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 6.320 GHz
-39.04 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

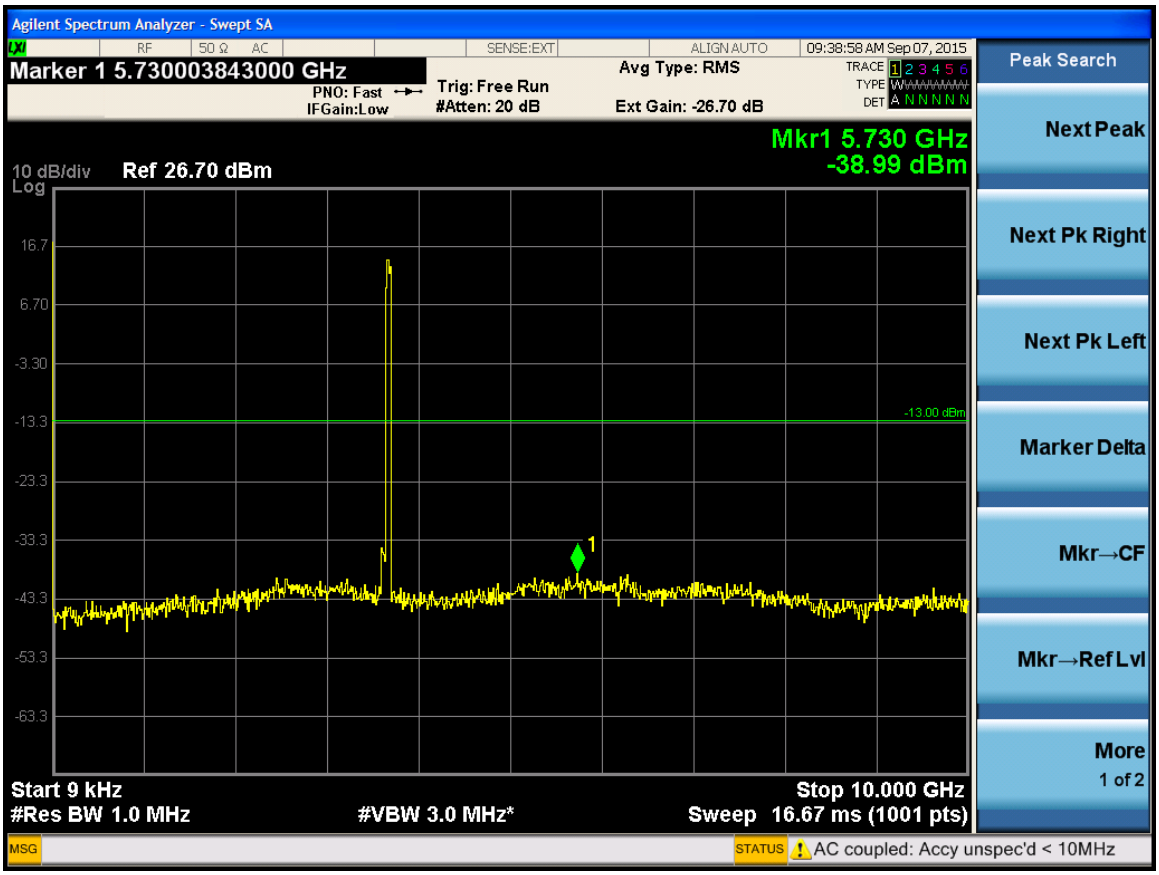

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.147000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
09:36:55 AM Sep 07, 2015
Mkr1 25.147 0 GHz
-28.86 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

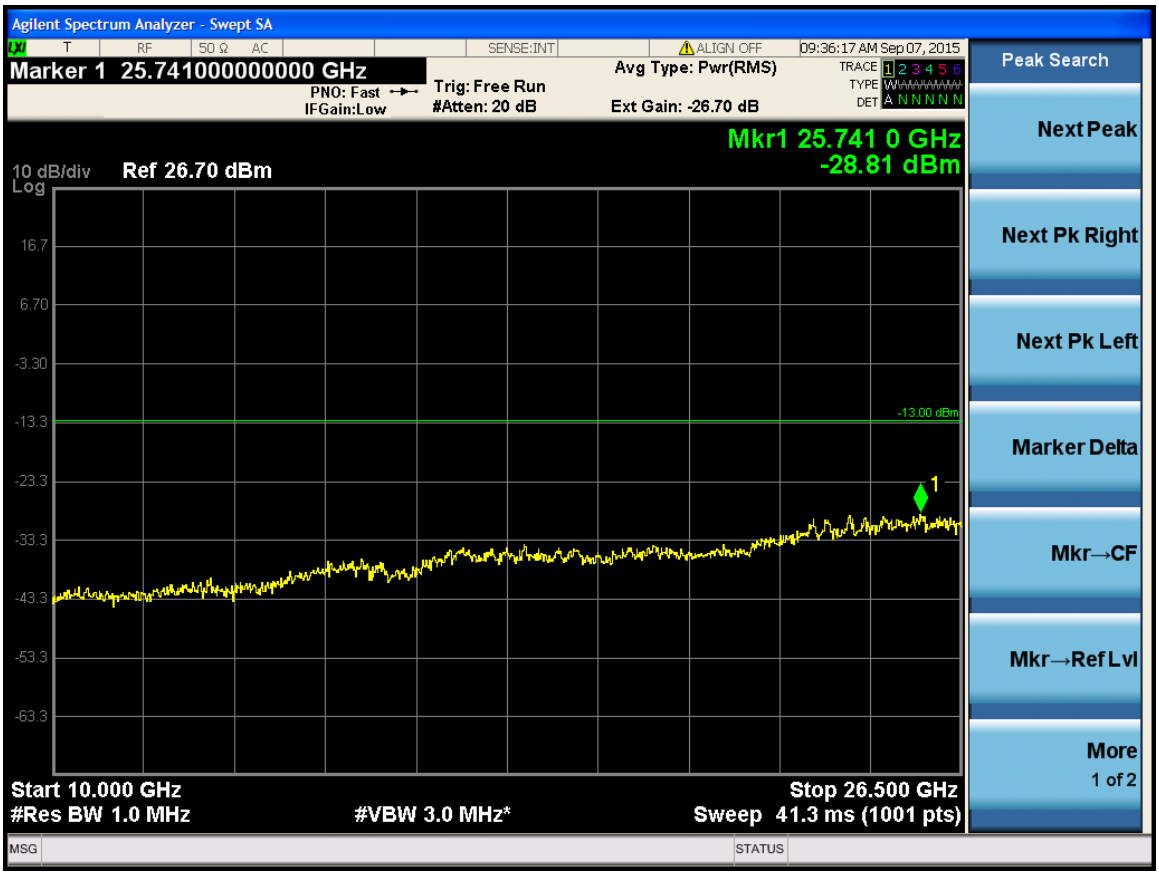

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:40:05 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.83 dBm / 50 MHz
Lower
<- Peak ->
Upper
Start Freq | Stop Freq | Integ BW | dBm | ΔLim(dB) | Freq (Hz) | dBm | ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -40.83 | (-17.83) | -34.25 M | -41.23 | (-18.23) | 25.05 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
File <SEM_3CA_16QAM_4.png> saved
STATUS

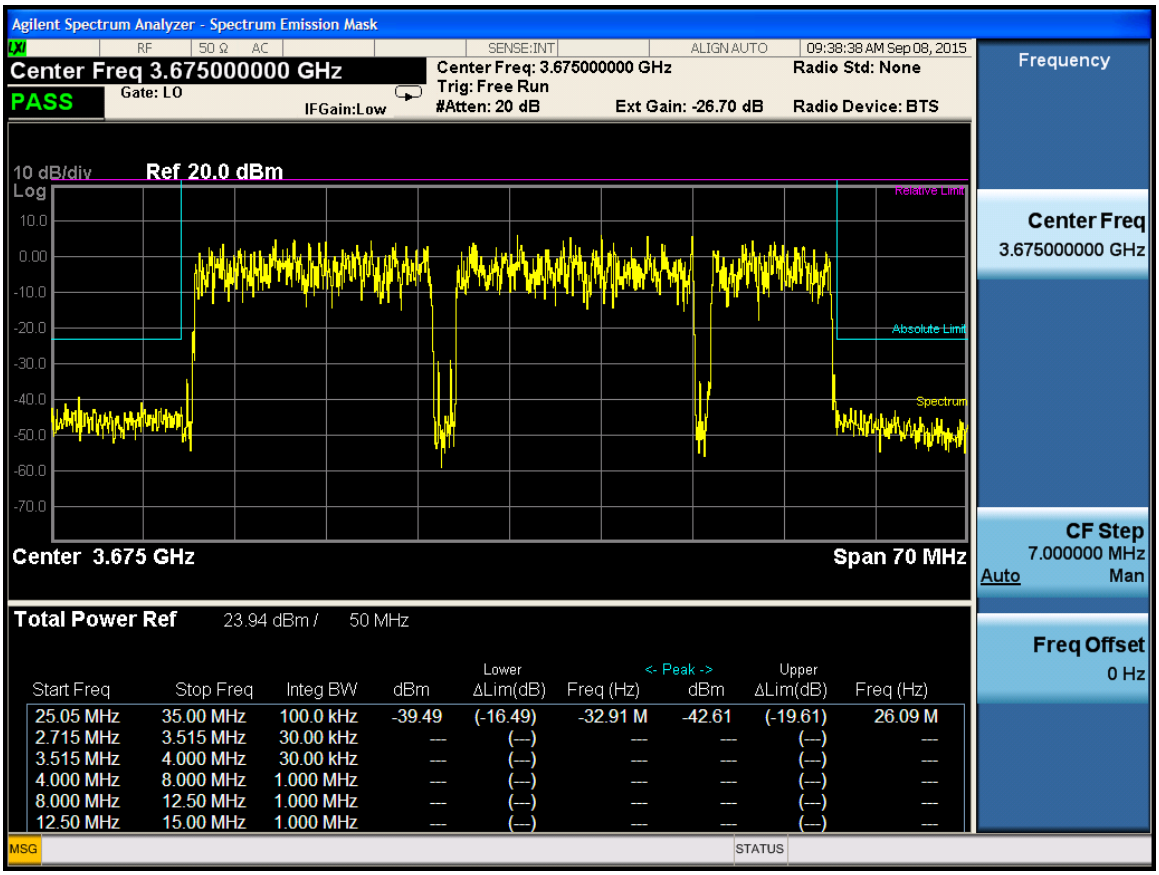

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:34:58 AM Sep 07, 2015
Marker 1 6.250003375000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE M
DET A N N N N N
Mkr1 6.250 GHz
-39.26 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

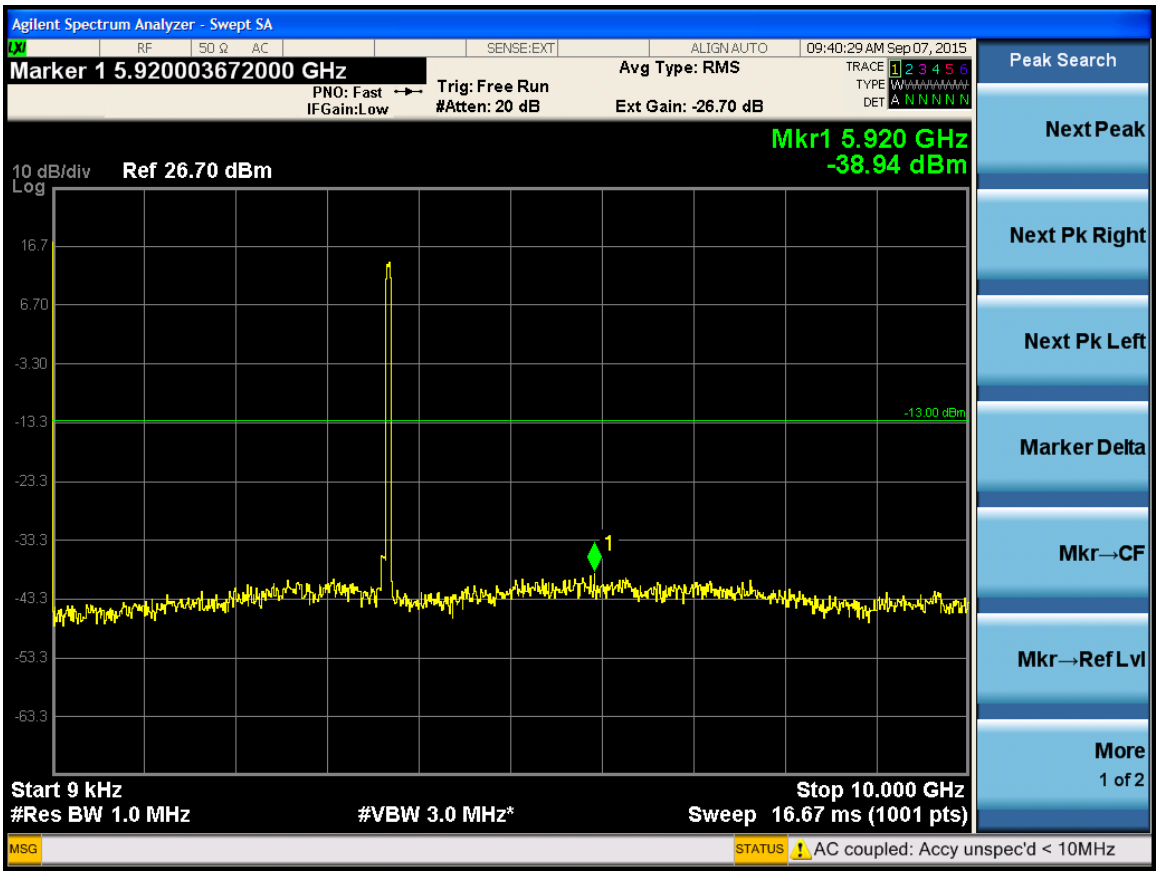

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN OFF
09:35:22 AM Sep 07, 2015
Marker 1 25.097500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.097 5 GHz
-28.81 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

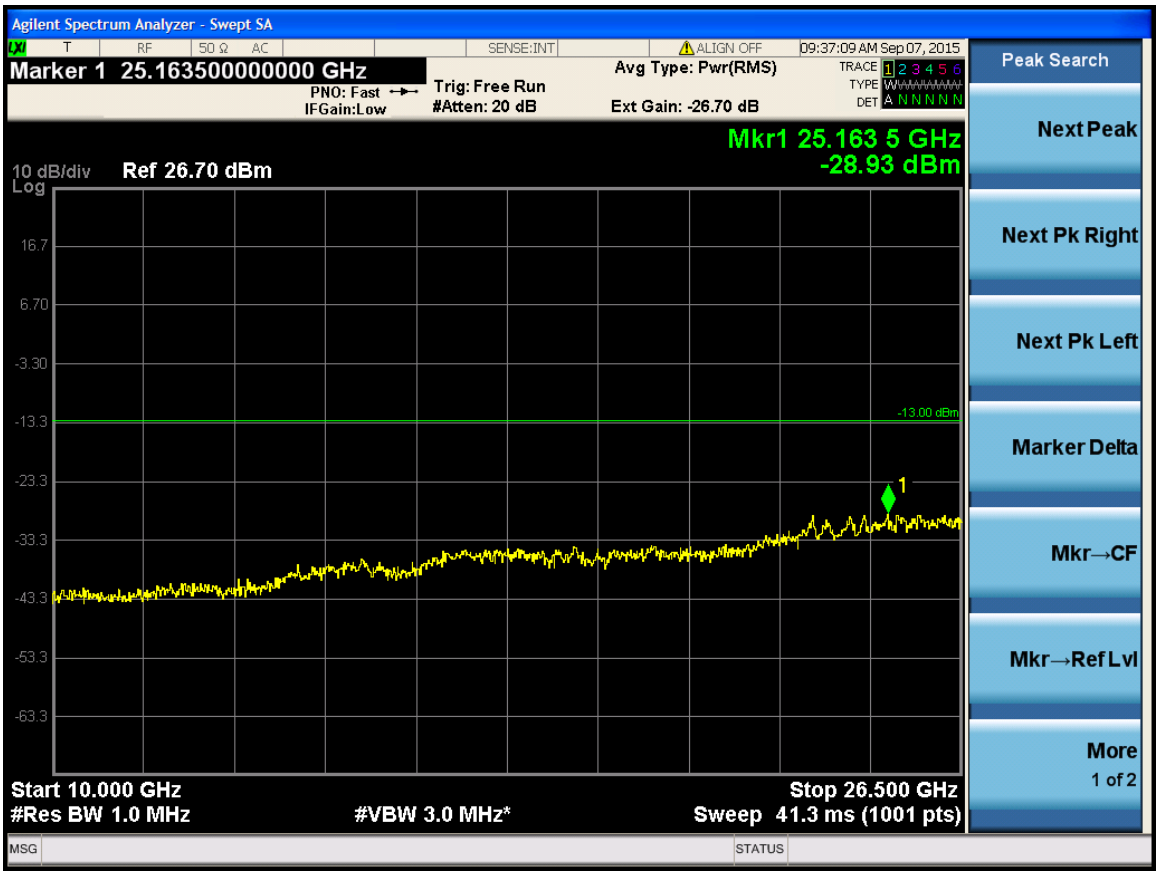

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:36:16 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.95 dBm / 50 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -40.43 | (-17.43) | -25.40 M | -42.21 | (-19.21) | 25.40 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
File <SEM_3CA_QPSK_1.png> saved
STATUS

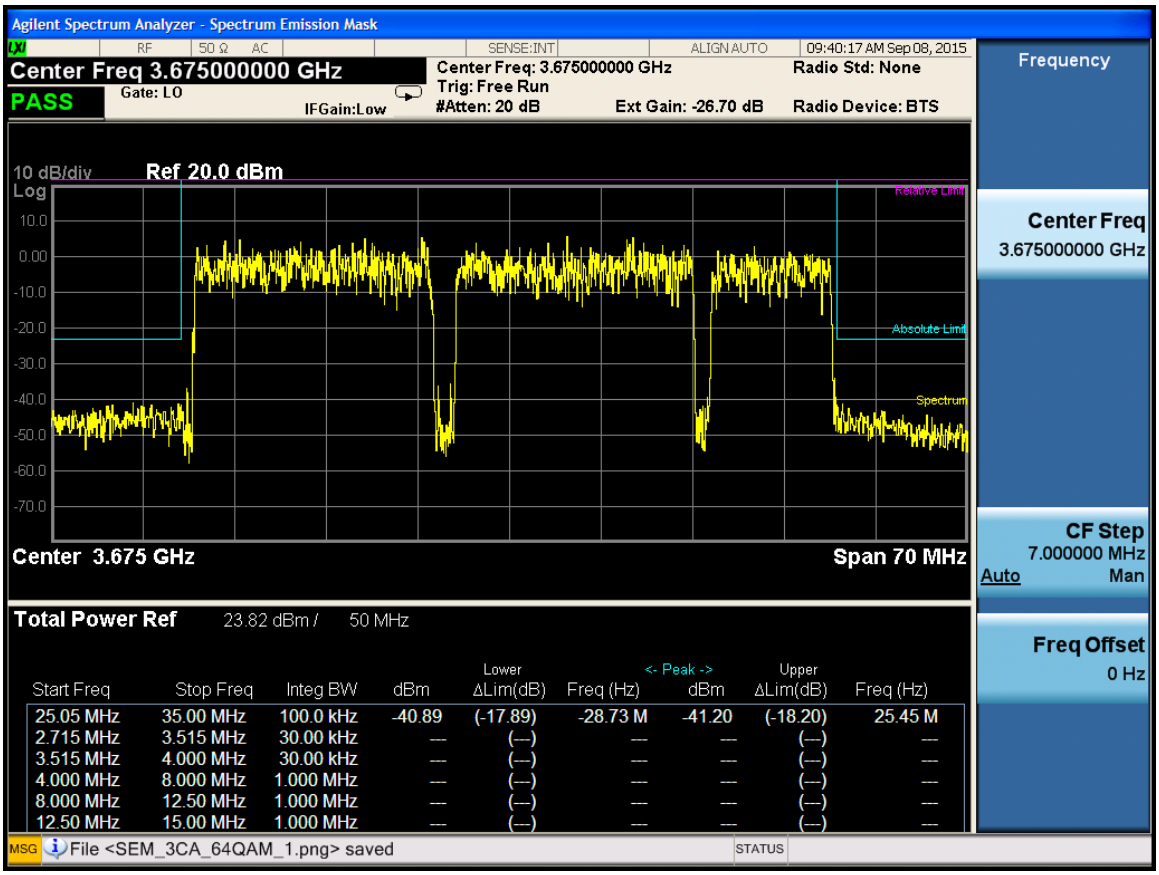

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:38:58 AM Sep 07, 2015
Marker 1 5.730003843000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.730 GHz
-38.99 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

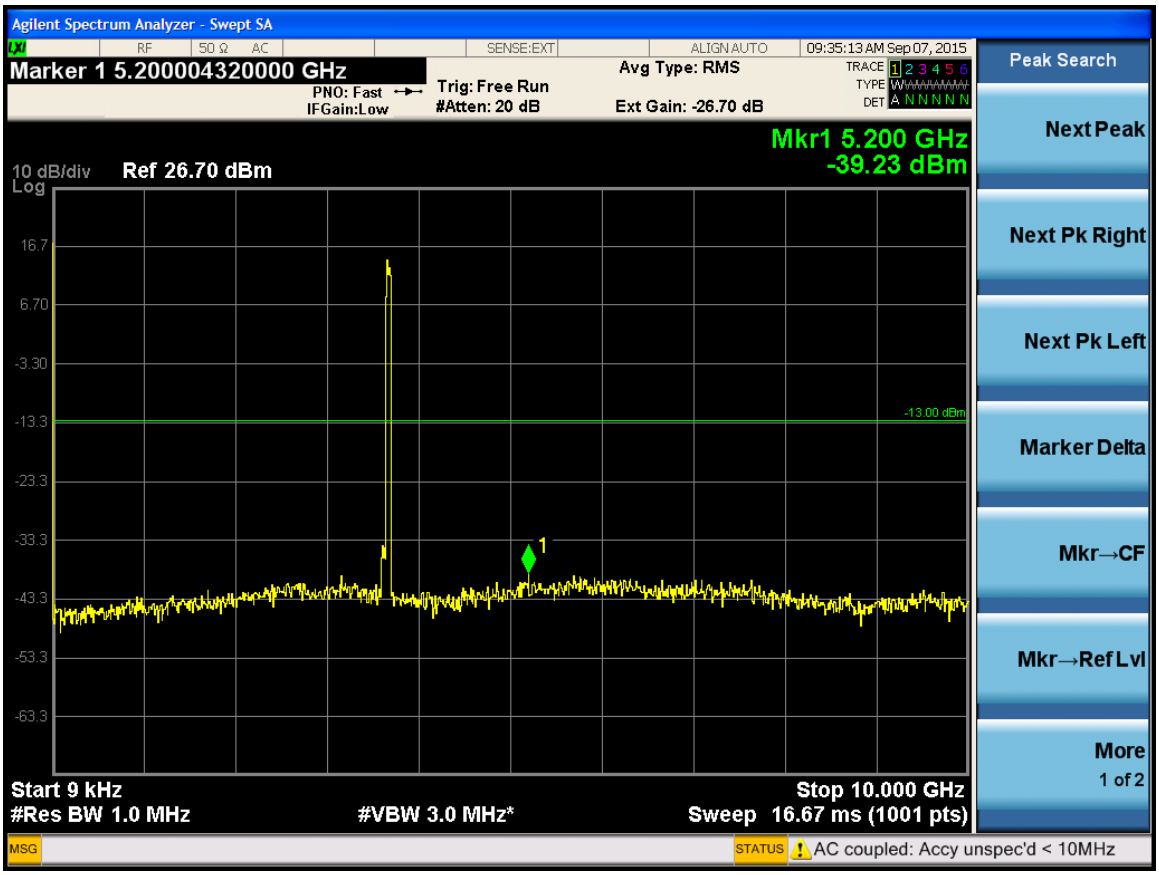

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN OFF
09:36:17 AM Sep 07, 2015
Marker 1 25.741000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.741 0 GHz
-28.81 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

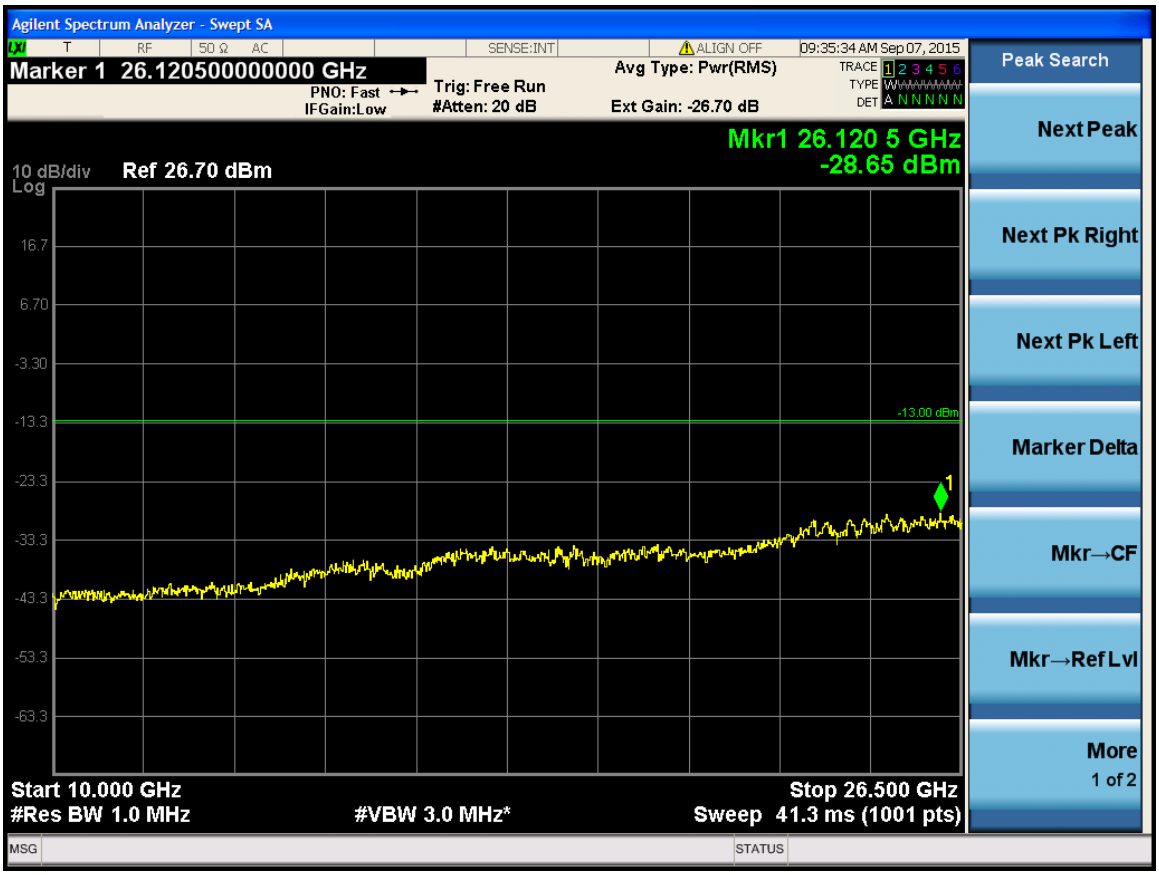

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:38:38 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.94 dBm / 50 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -39.49 | (-16.49) | -32.91 M | -42.61 | (-19.61) | 26.09 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
STATUS

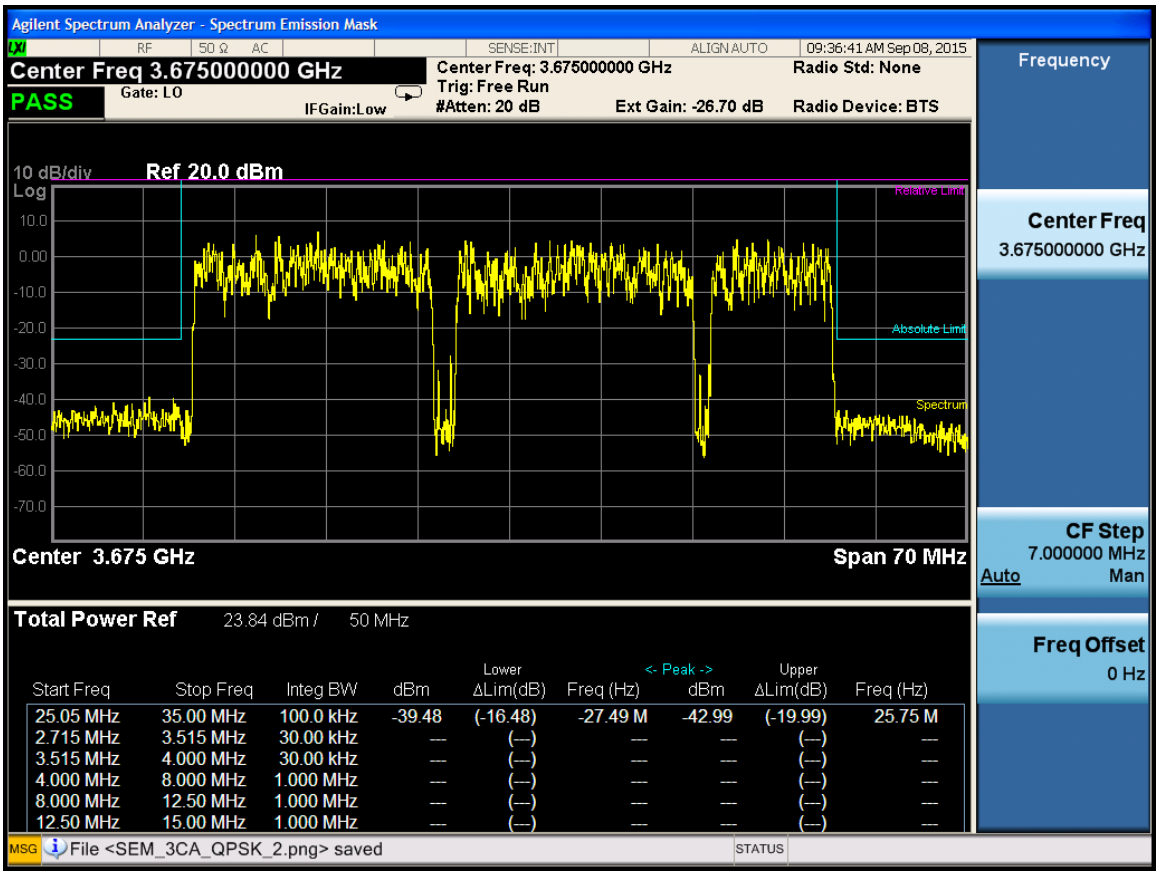

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:40:29 AM Sep 07, 2015
Marker 1 5.920003672000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE M
DET A N N N N N
Mkr1 5.920 GHz
-38.94 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz

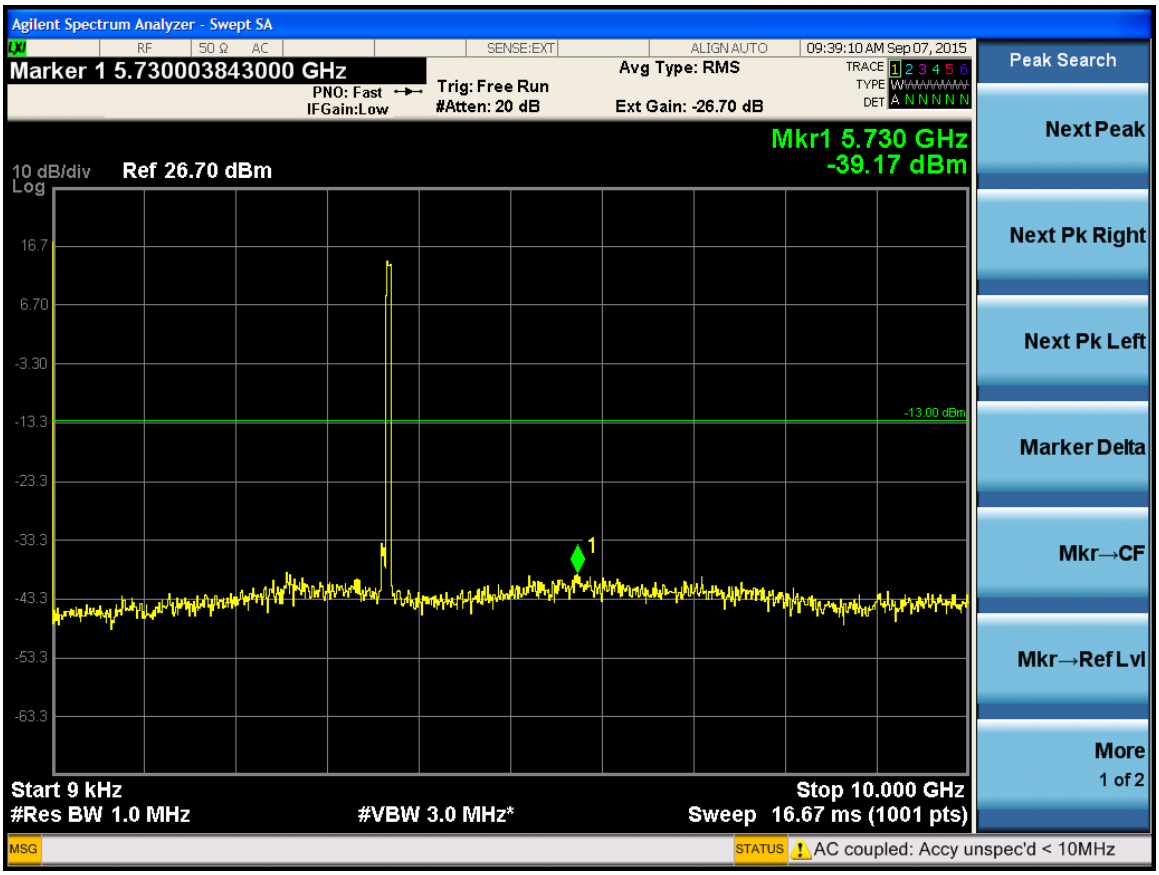

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.163500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
09:37:09 AM Sep 07, 2015
Mkr1 25.163 5 GHz
-28.93 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

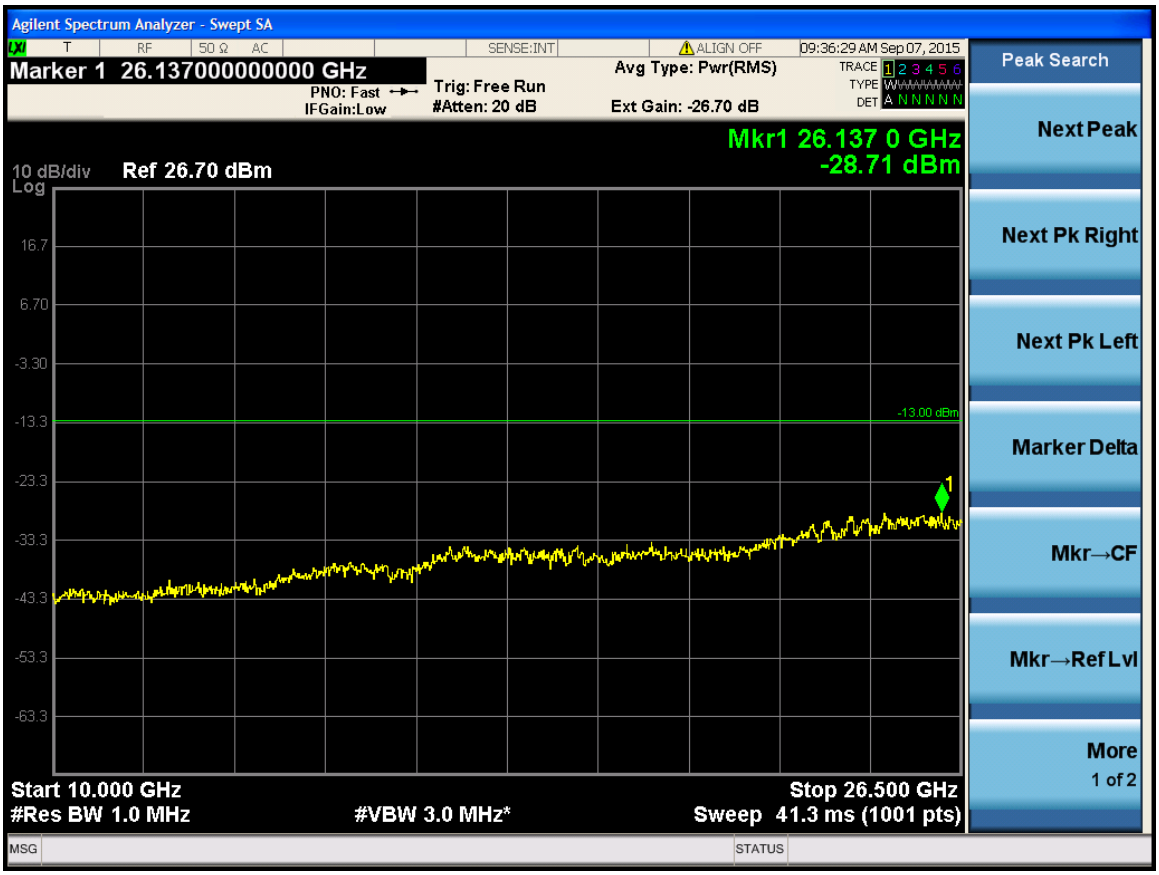

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:40:17 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.82 dBm / 50 MHz
Lower
<- Peak ->
Upper
Start Freq | Stop Freq | Integ BW | dBm | ΔLim(dB) | Freq (Hz) | dBm | ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -40.89 | (-17.89) | -28.73 M | -41.20 | (-18.20) | 25.45 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
File <SEM_3CA_64QAM_1.png> saved
STATUS

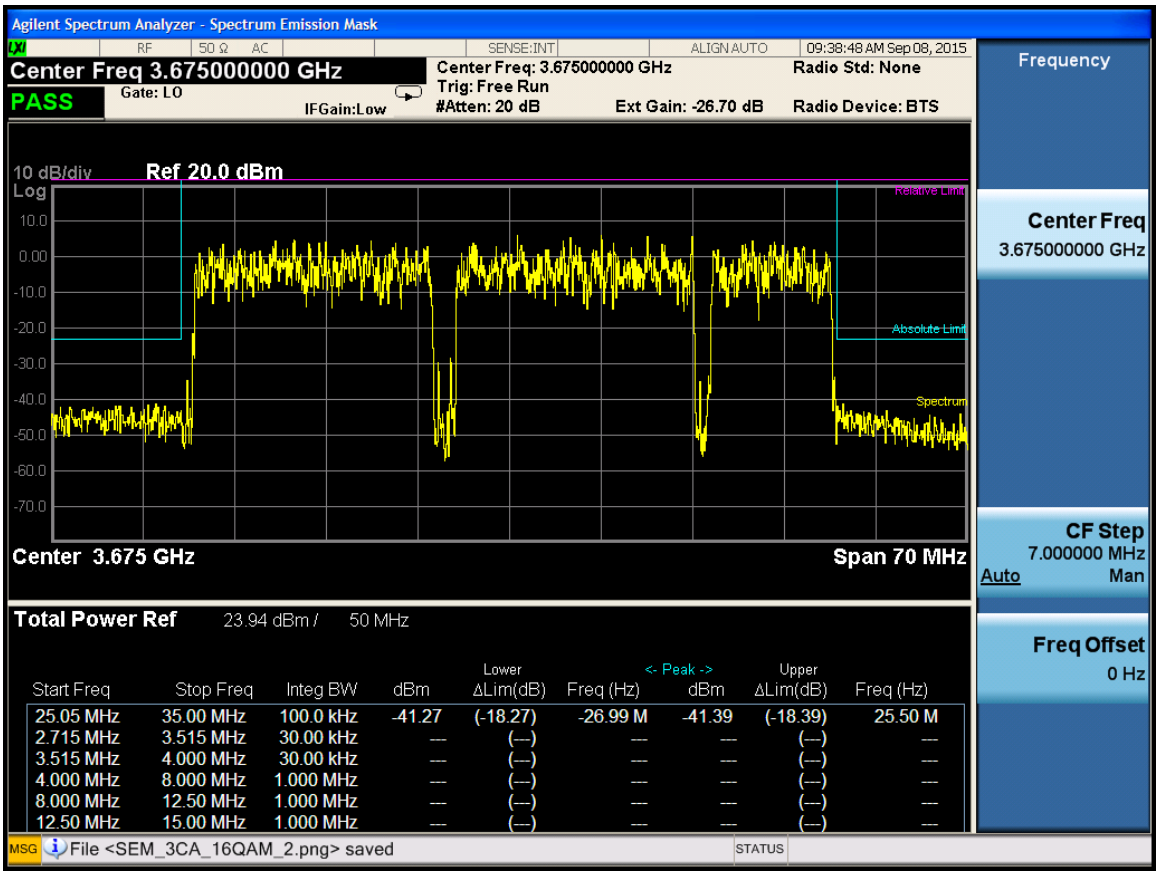

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:35:13 AM Sep 07, 2015
Marker 1 5.200004320000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.200 GHz
-39.23 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

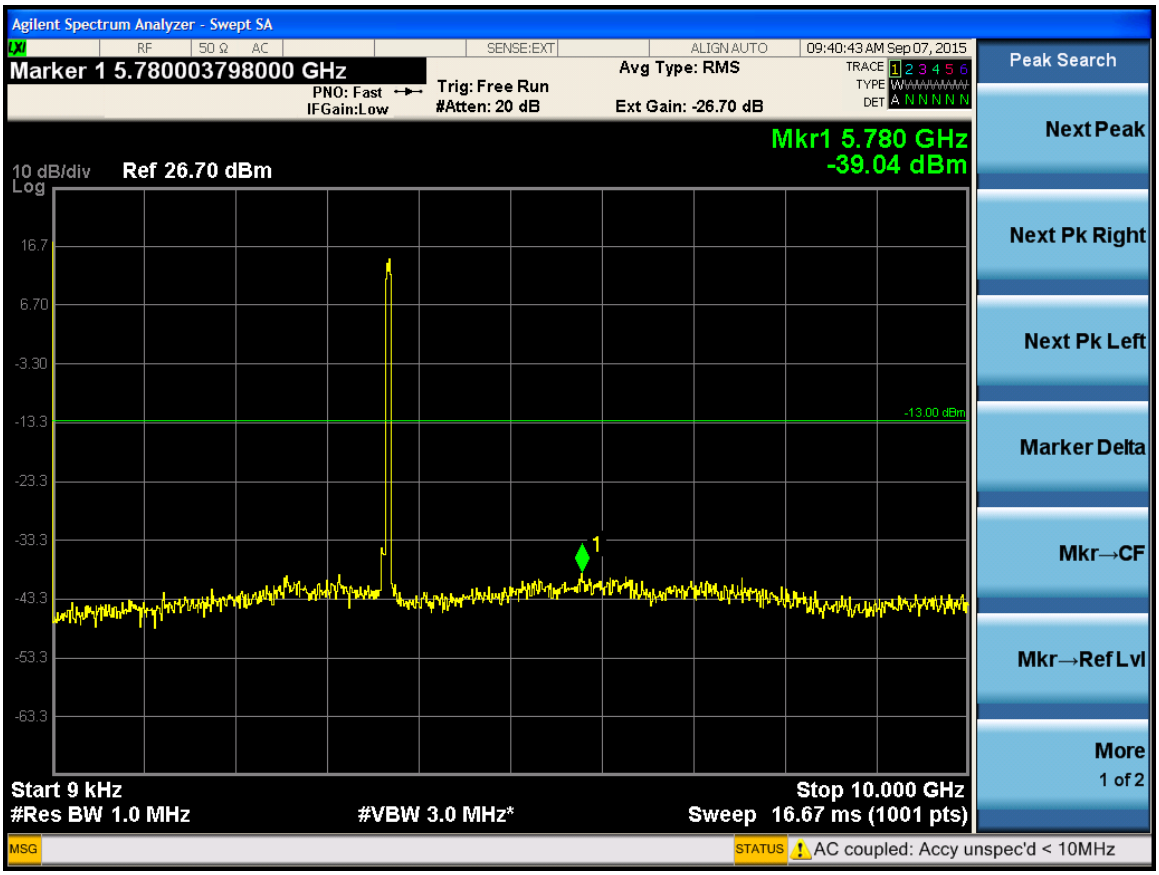

Agilent Spectrum Analyzer - Swept SA
Marker 1 26.120500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
09:35:34 AM Sep 07, 2015
Mkr1 26.120 5 GHz
-28.65 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

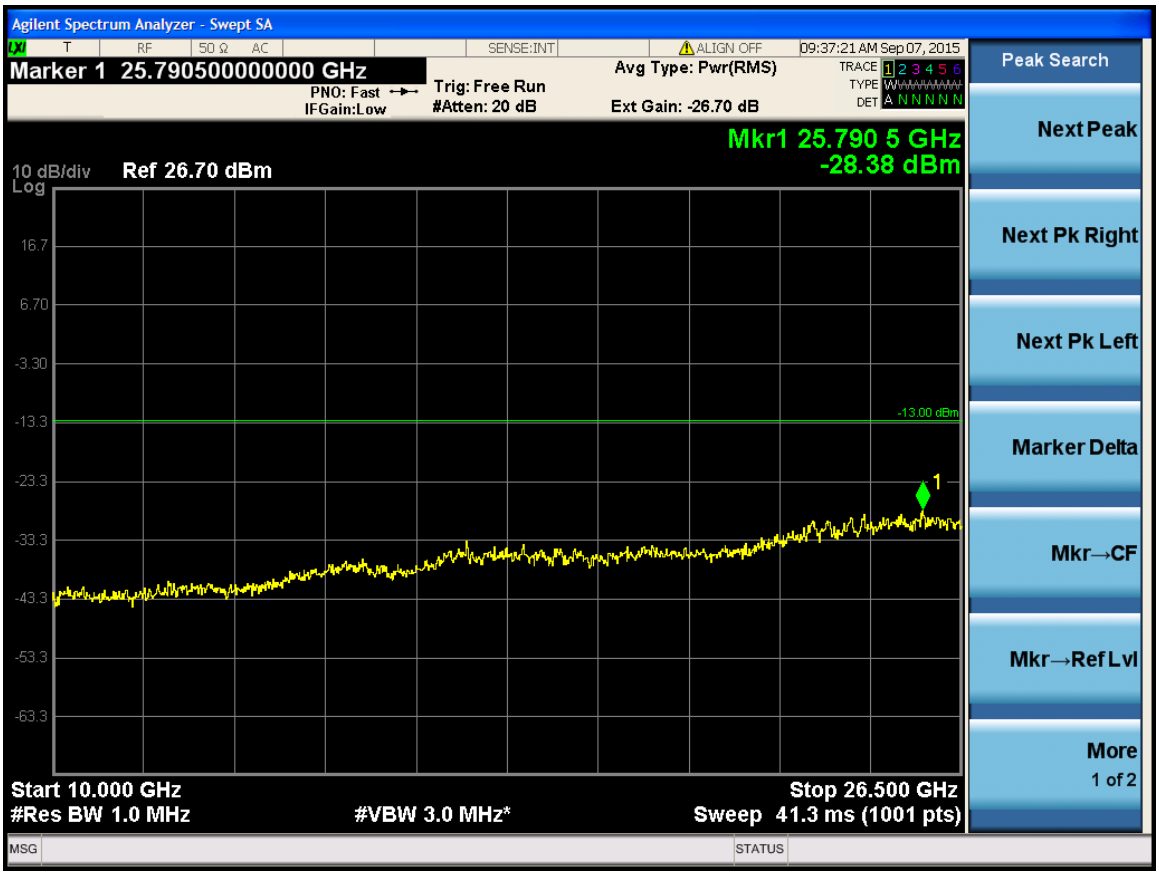

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:36:41 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.84 dBm / 50 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -39.48 | (-16.48) | -27.49 M | -42.99 | (-19.99) | 25.75 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
File <SEM_3CA_QPSK_2.png> saved
STATUS

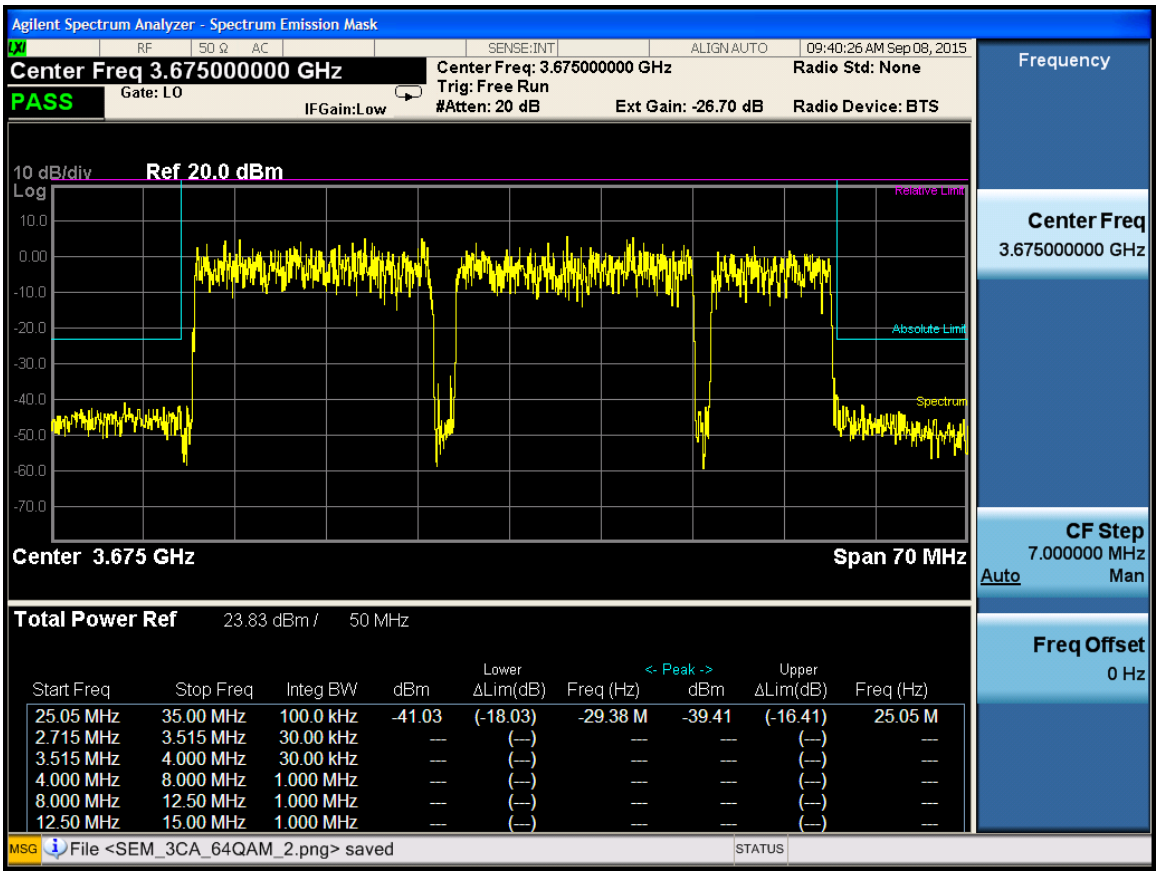

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:39:10 AM Sep 07, 2015
Marker 1 5.730003843000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.730 GHz
-39.17 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

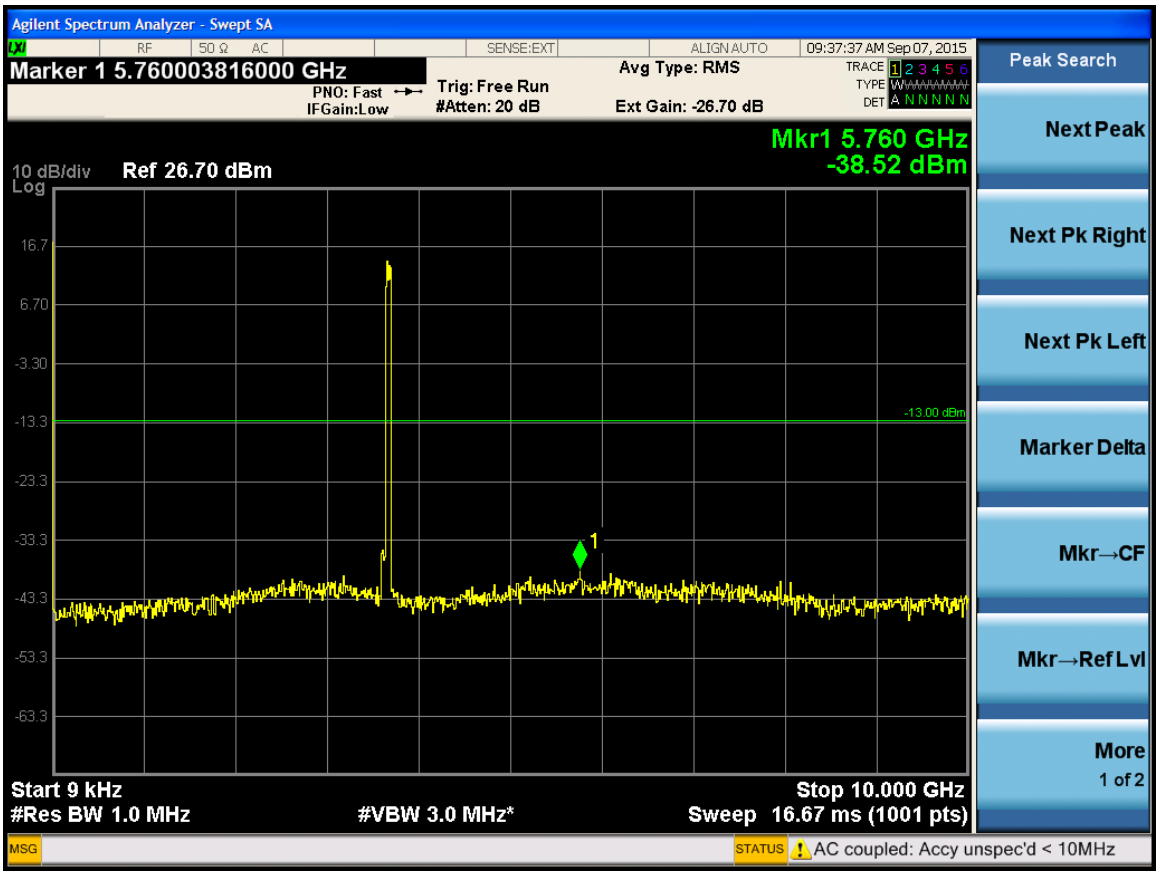

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN OFF
09:36:29 AM Sep 07, 2015
Marker 1 26.137000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 26.137 0 GHz
-28.71 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

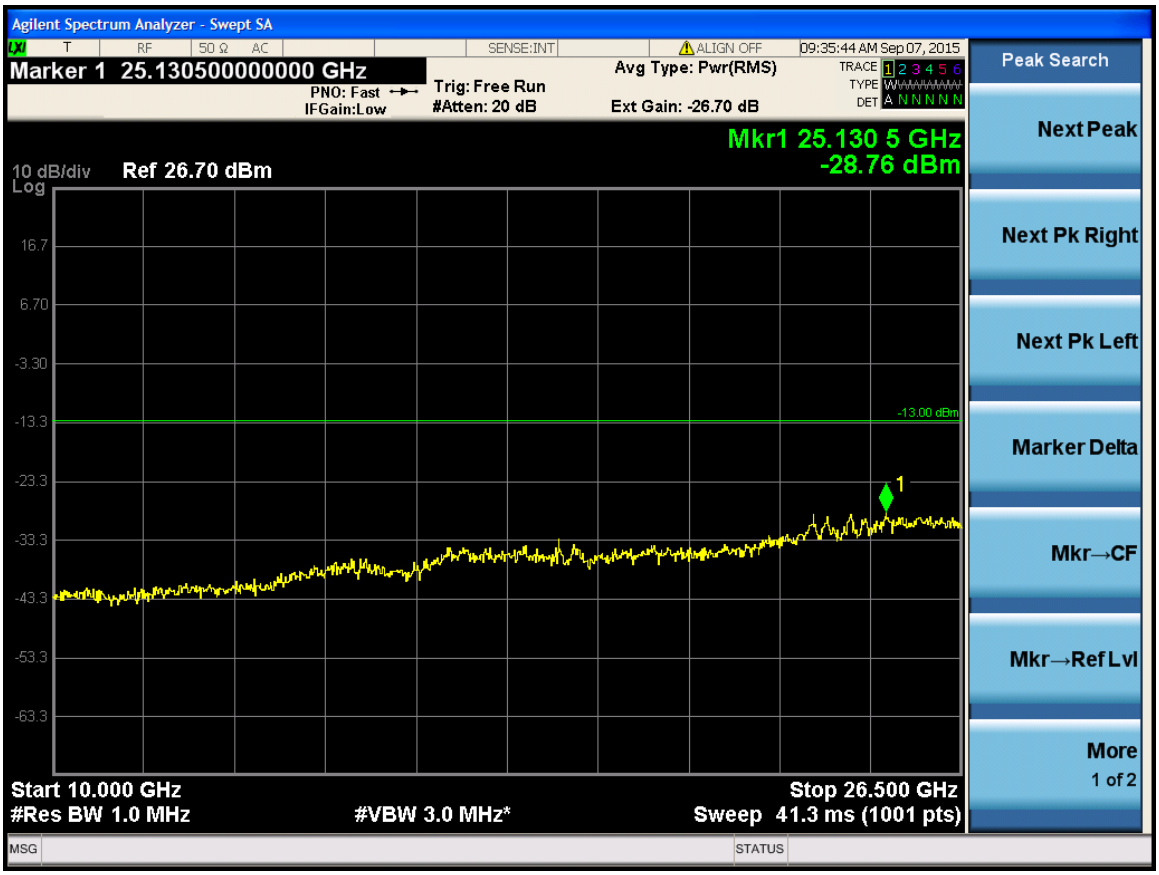

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:38:48 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.94 dBm / 50 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -41.27 | (-18.27) | -26.99 M | -41.39 | (-18.39) | 25.50 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
File <SEM_3CA_16QAM_2.png> saved
STATUS

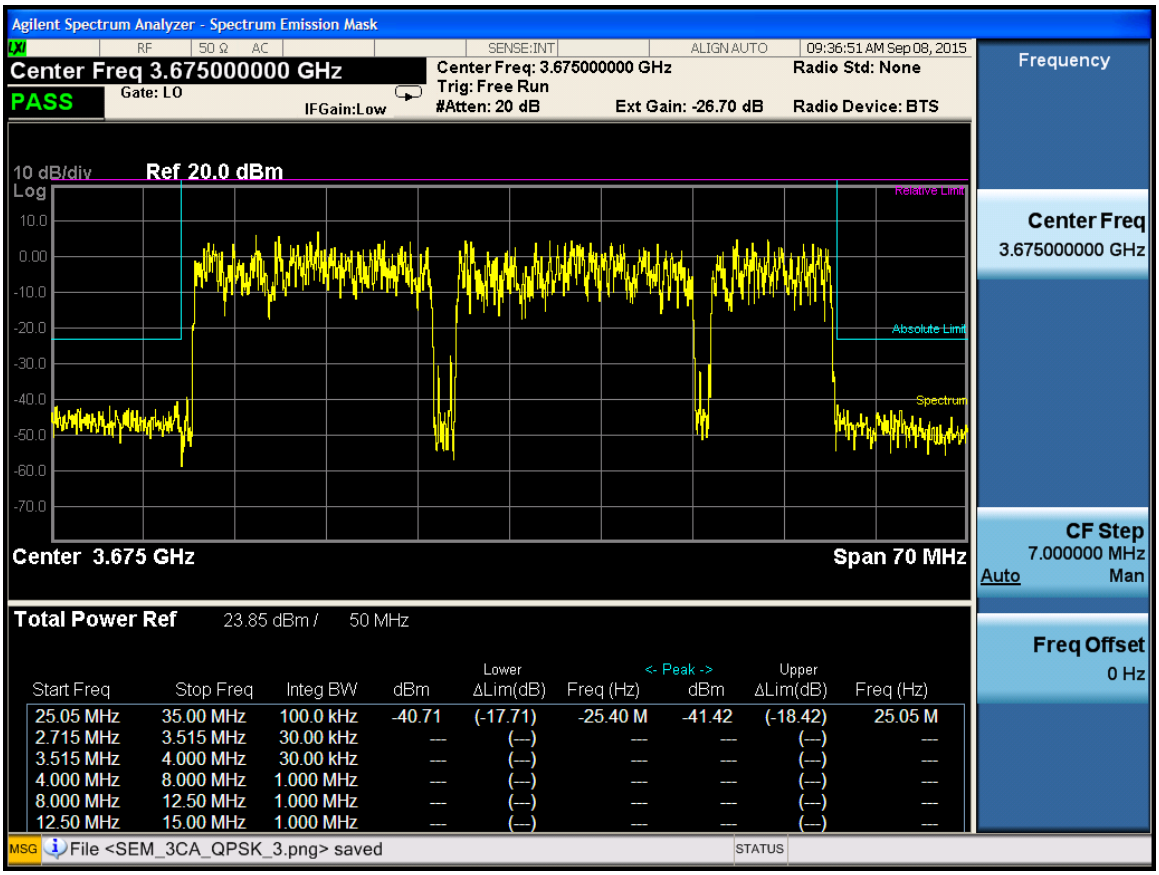

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:40:43 AM Sep 07, 2015
Marker 1 5.780003798000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.780 GHz
-39.04 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

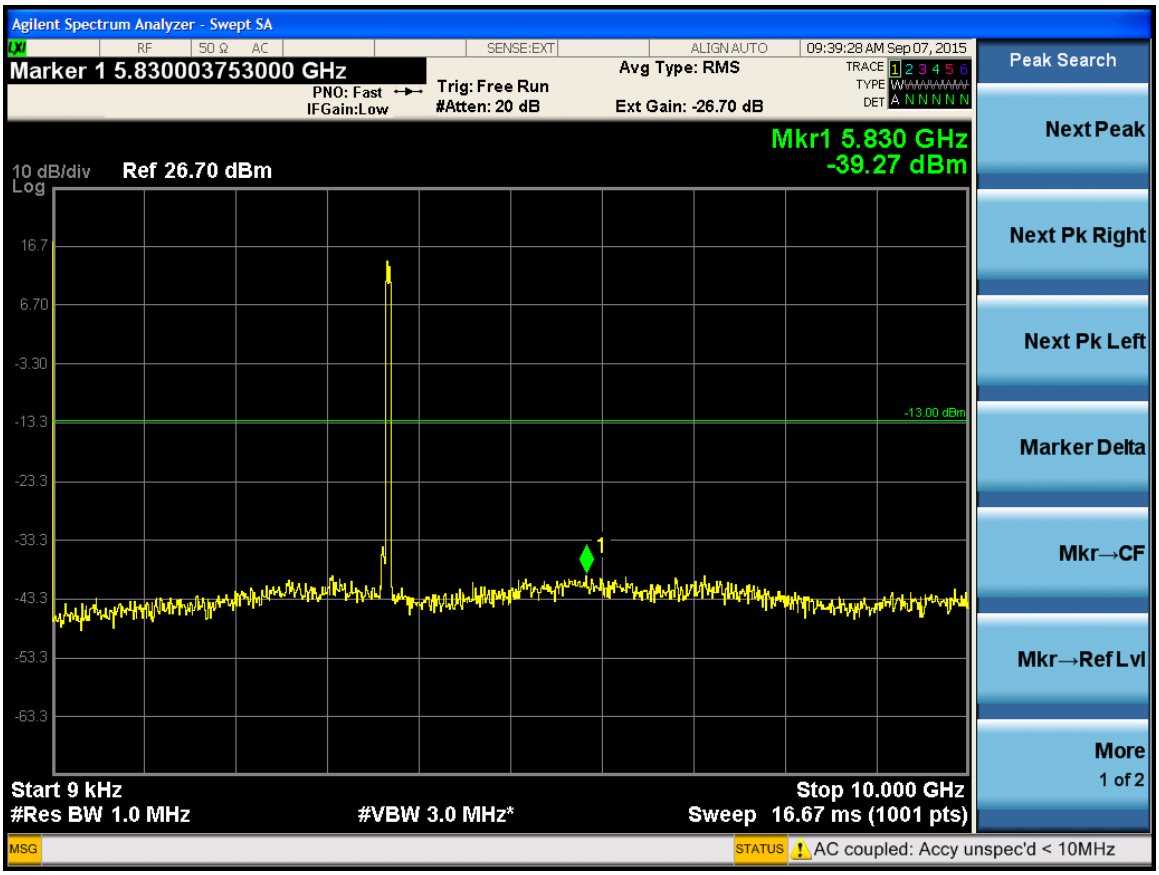

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.790500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
09:37:21 AM Sep 07, 2015
Mkr1 25.790 5 GHz
-28.38 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

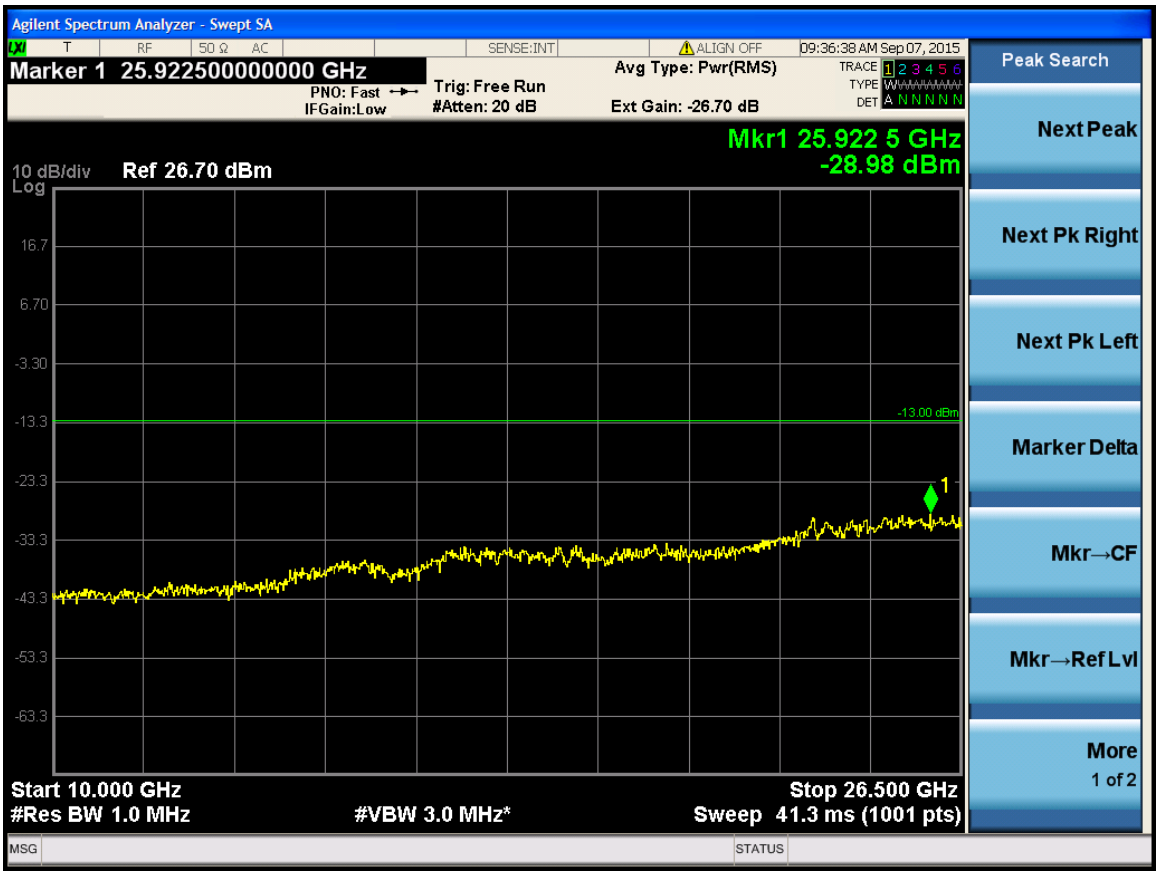

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:40:26 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
Relative Limit
Absolute Limit
Spectrum
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref
23.83 dBm / 50 MHz
Lower
<- Peak ->
Upper
Start Freq
Stop Freq
Integ BW
dBm
ΔLim(dB)
Freq (Hz)
dBm
ΔLim(dB)
Freq (Hz)
25.05 MHz 35.00 MHz 100.0 kHz -41.03 (-18.03) -29.38 M -39.41 (-16.41) 25.05 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
MSG
File <SEM_3CA_64QAM_2.png> saved
STATUS

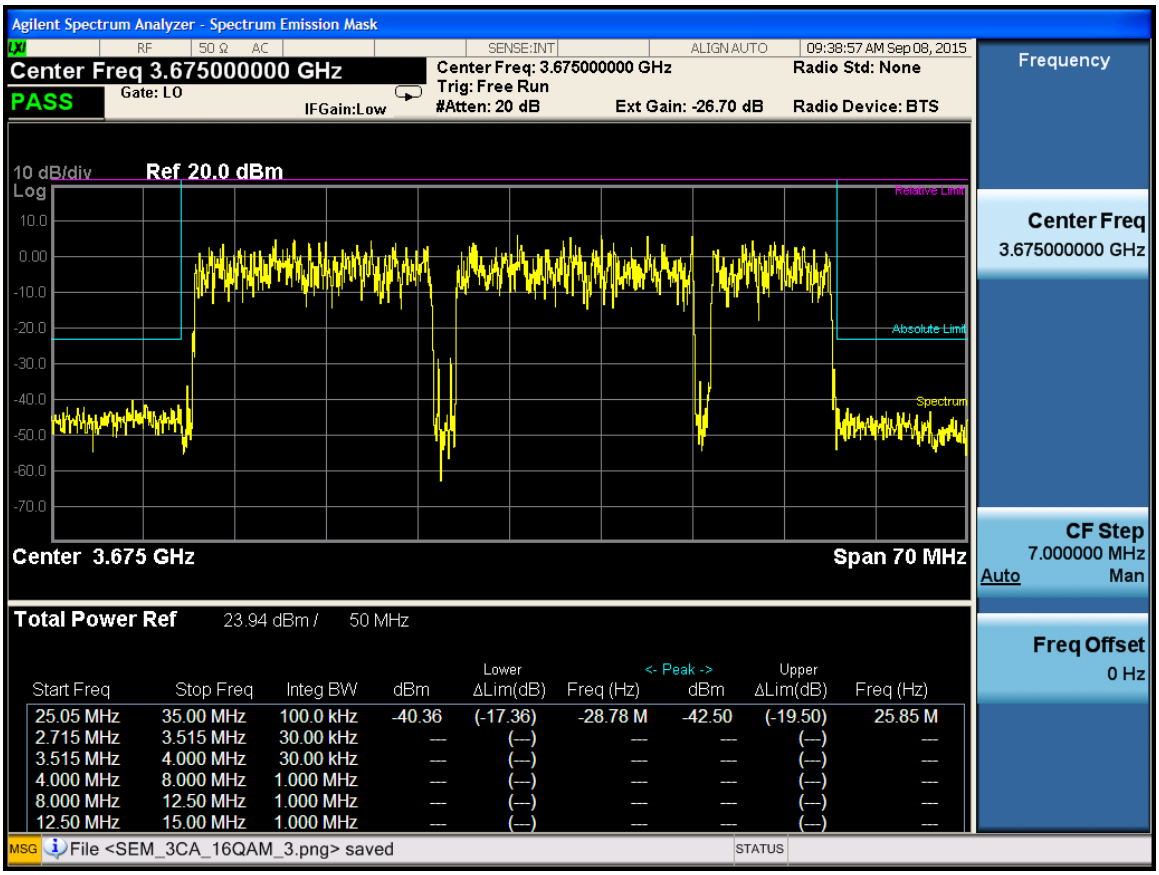

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:37:37 AM Sep 07, 2015
Marker 1 5.760003816000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.760 GHz
-38.52 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

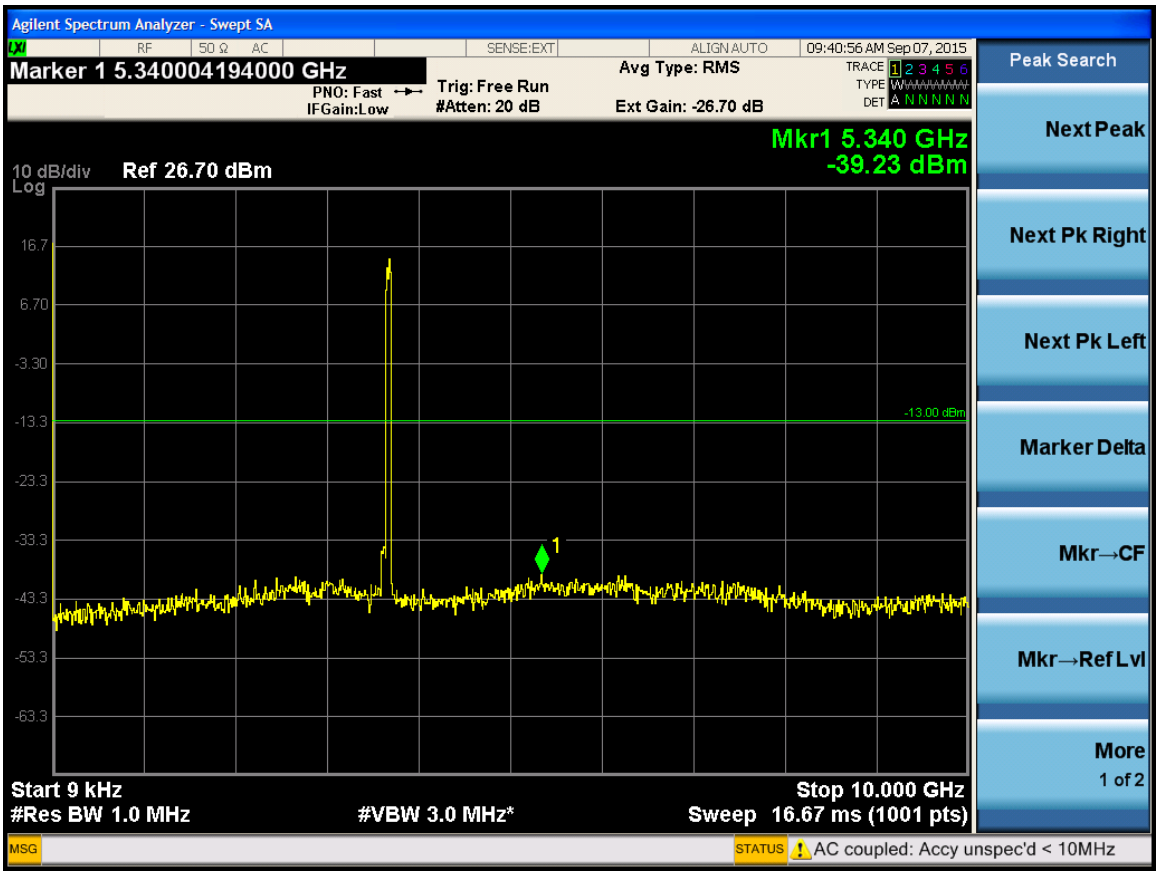

Agilent Spectrum Analyzer - Swept SA
Marker 1 25.130500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
09:35:44 AM Sep 07, 2015
Mkr1 25.130 5 GHz
-28.76 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS

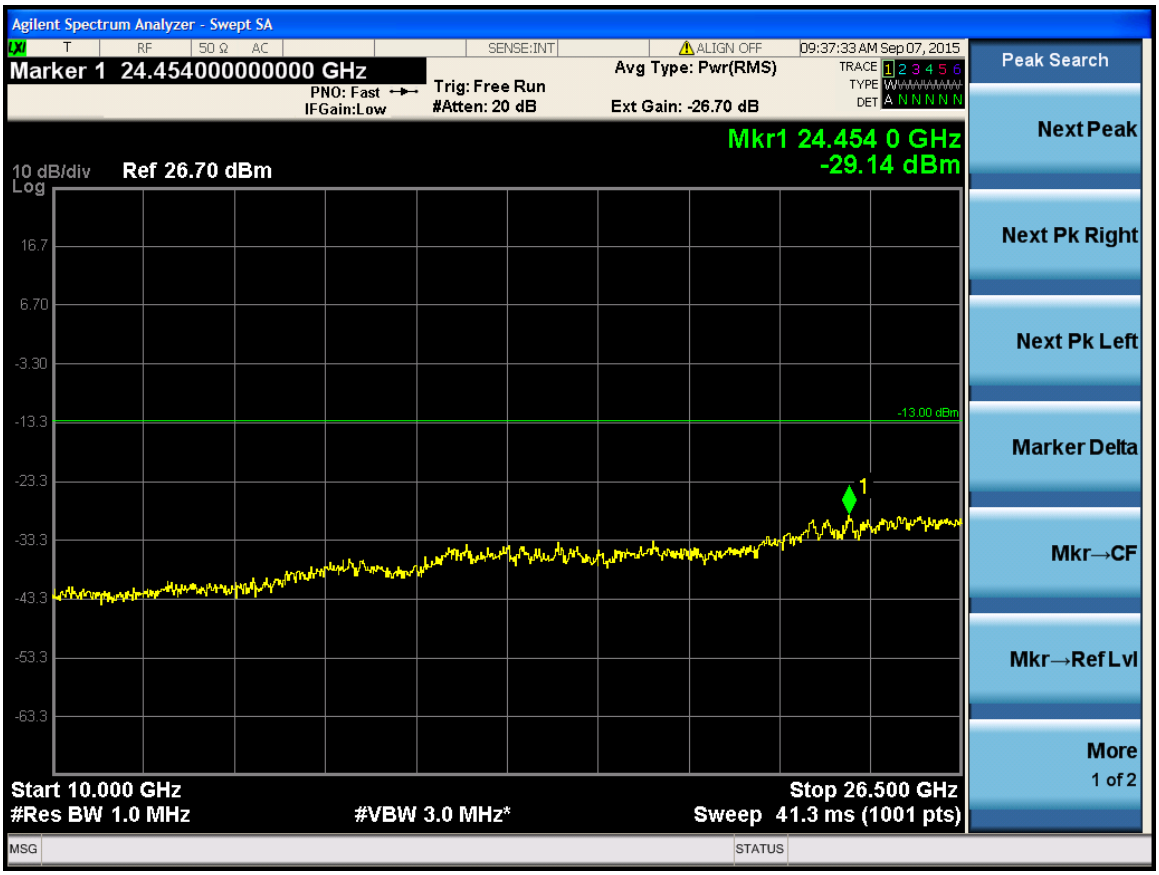

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:36:51 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.85 dBm / 50 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -40.71 | (-17.71) | -25.40 M | -41.42 | (-18.42) | 25.05 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
File <SEM_3CA_QPSK_3.png> saved
STATUS

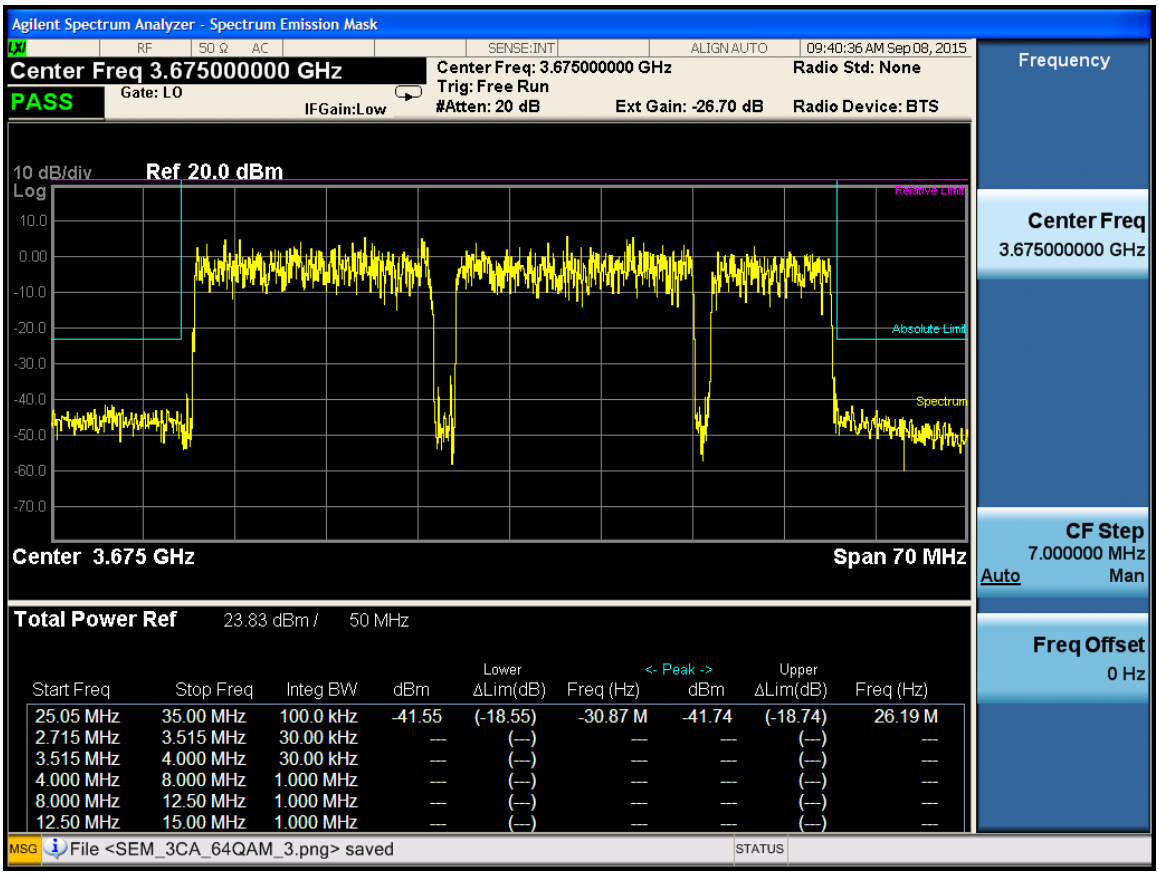

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:39:28 AM Sep 07, 2015
Marker 1 5.830003753000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.830 GHz
-39.27 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2


Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:INT
ALIGN OFF
09:36:38 AM Sep 07, 2015
Marker 1 25.922500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.922 5 GHz
-28.98 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS


Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:38:57 AM Sep 08, 2015
Center Freq 3.675000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 3.675000000 GHz
Trig: Free Run
#Atten: 20 dB
Ext Gain: -26.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.0 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Relative Limit
Absolute Limit
Spectrum
Center 3.675 GHz
Span 70 MHz
Center Freq
3.675000000 GHz
CF Step
7.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 23.94 dBm / 50 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Freq (Hz)
25.05 MHz | 35.00 MHz | 100.0 kHz | -40.36 | (-17.36) | -28.78 M | -42.50 | (-19.50) | 25.85 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
File <SEM_3CA_16QAM_3.png> saved
STATUS


Agilent Spectrum Analyzer - Swept SA
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:40:56 AM Sep 07, 2015
Marker 1 5.340004194000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Ext Gain: -26.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 5.340 GHz
-39.23 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 10.000 GHz
Sweep 16.67 ms (1001 pts)
MSG
STATUS
AC coupled: Accy unspec'd < 10MHz
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2


Agilent Spectrum Analyzer - Swept SA
Marker 1 24.454000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: Pwr(RMS)
Ext Gain: -26.70 dB
09:37:33 AM Sep 07, 2015
Mkr1 24.454 0 GHz
-29.14 dBm
10 dB/div
Log
Ref 26.70 dBm
16.7
6.70
-3.30
-13.3
-23.3
-33.3
-43.3
-53.3
-63.3
-13.00 dBm
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.500 GHz
Sweep 41.3 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MSG
STATUS



8 FREQUENCY STABILITY

Applicable Standard: FCC § 2.1055

Requirements: FCC § 2.1055 (a)(d), The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GZ-ESPEC	Temperature Chamber	EW0470	06113028	2014.06.25	2015.06.25

Agilent	MXA Series Spectrum Analyzer	N9020A	MY51240300	2014.12.10	2015.12.10
Agilent	MXA Series Spectrum Analyzer	N9030A	MY53310566	2015.06.28	2016.06.28
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2015.06.13	2016.06.13

*__statement of traceability:__ ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Spectrum Analyzer via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.
After the temperature stabilized for approximately 150 minutes, the frequency output was recorded from the counter.
Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

Environmental Conditions

Normal condition:	25° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Test Result: Pass

Test Mode: Transmitting LTE

Test Data

Frequency Stability versus Temperature

Frequency Stability vs. Temperature（Channel Bandwidth:20M Frequency :3660MHz） FL=3650.73MHz，FH=3669.26MHz							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Modulation**	**Frequency Measure Error (Hz)**	**FL+ Frequency Offset(MHz)**	**FH+ Frequency Offset(MHz)**	**Result**
-40	-48	0	QPSK	3.56	3650.73	3669.26	Pass
			16QAM	2.11	3650.73	3669.26	Pass
			64QAM	-1.06	3650.73	3669.26	Pass
		1	QPSK	2.53	3650.73	3669.26	Pass
			16QAM	1.02	3650.73	3669.26	Pass
			64QAM	2.15	3650.73	3669.26	Pass
		2	QPSK	-0.36	3650.73	3669.26	Pass
			16QAM	3.85	3650.73	3669.26	Pass
			64QAM	1.5	3650.73	3669.26	Pass
		3	QPSK	2.78	3650.73	3669.26	Pass
			16QAM	4.33	3650.73	3669.26	Pass
			64QAM	2.61	3650.73	3669.26	Pass
		4	QPSK	-0.89	3650.73	3669.26	Pass
			16QAM	-1.36	3650.73	3669.26	Pass
			64QAM	2.45	3650.73	3669.26	Pass
		5	QPSK	-3.62	3650.73	3669.26	Pass
			16QAM	-1.51	3650.73	3669.26	Pass
			64QAM	3.25	3650.73	3669.26	Pass
		6	QPSK	1.48	3650.73	3669.26	Pass
			16QAM	2.34	3650.73	3669.26	Pass

Frequency Stability vs. Temperature（Channel Bandwidth:20M Frequency :3660MHz） FL=3650.73MHz，FH=3669.26MHz							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Modulation**	**Frequency Measure Error (Hz)**	**FL+ Frequency Offset(MHz)**	**FH+ Frequency Offset(MHz)**	**Result**
			64QAM	1.95	3650.73	3669.26	Pass
		7	QPSK	1.87	3650.73	3669.26	Pass
			16QAM	-0.47	3650.73	3669.26	Pass
			64QAM	-2.84	3650.73	3669.26	Pass
-30	-48	0	QPSK	3.18	3650.73	3669.26	Pass
			16QAM	-2.22	3650.73	3669.26	Pass
			64QAM	2.18	3650.73	3669.26	Pass
		1	QPSK	2.74	3650.73	3669.26	Pass
			16QAM	-2.83	3650.73	3669.26	Pass
			64QAM	-0.15	3650.73	3669.26	Pass
		2	QPSK	0.64	3650.73	3669.26	Pass
			16QAM	2.79	3650.73	3669.26	Pass
			64QAM	3.81	3650.73	3669.26	Pass
		3	QPSK	2.61	3650.73	3669.26	Pass
			16QAM	-2.81	3650.73	3669.26	Pass
			64QAM	-3.11	3650.73	3669.26	Pass
		4	QPSK	0.86	3650.73	3669.26	Pass
			16QAM	-2.69	3650.73	3669.26	Pass
			64QAM	2.88	3650.73	3669.26	Pass
		5	QPSK	-2.75	3650.73	3669.26	Pass
			16QAM	3.87	3650.73	3669.26	Pass
			64QAM	1.6	3650.73	3669.26	Pass
		6	QPSK	-2.15	3650.73	3669.26	Pass
			16QAM	1.77	3650.73	3669.26	Pass
			64QAM	0.82	3650.73	3669.26	Pass
		7	QPSK	3.71	3650.73	3669.26	Pass
			16QAM	1.95	3650.73	3669.26	Pass
			64QAM	-2.03	3650.73	3669.26	Pass
-20	-48	0	QPSK	-1.44	3650.73	3669.26	Pass
			16QAM	0.58	3650.73	3669.26	Pass
			64QAM	-3.41	3650.73	3669.26	Pass
		1	QPSK	2.85	3650.73	3669.26	Pass
			16QAM	-0.71	3650.73	3669.26	Pass

Frequency Stability vs. Temperature（Channel Bandwidth:20M Frequency :3660MHz） FL=3650.73MHz，FH=3669.26MHz							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Modulation**	**Frequency Measure Error (Hz)**	**FL+ Frequency Offset(MHz)**	**FH+ Frequency Offset(MHz)**	**Result**
			64QAM	-2.58	3650.73	3669.26	Pass
		2	QPSK	3.32	3650.73	3669.26	Pass
			16QAM	1.82	3650.73	3669.26	Pass
			64QAM	-2.68	3650.73	3669.26	Pass
		3	QPSK	-1.52	3650.73	3669.26	Pass
			16QAM	2.41	3650.73	3669.26	Pass
			64QAM	3.49	3650.73	3669.26	Pass
		4	QPSK	1.56	3650.73	3669.26	Pass
			16QAM	3.72	3650.73	3669.26	Pass
			64QAM	-2.15	3650.73	3669.26	Pass
		5	QPSK	-1.68	3650.73	3669.26	Pass
			16QAM	0.95	3650.73	3669.26	Pass
			64QAM	-2.4	3650.73	3669.26	Pass
		6	QPSK	1.55	3650.73	3669.26	Pass
			16QAM	-3.18	3650.73	3669.26	Pass
			64QAM	2.71	3650.73	3669.26	Pass
		7	QPSK	3.63	3650.73	3669.26	Pass
			16QAM	1.52	3650.73	3669.26	Pass
			64QAM	-2.36	3650.73	3669.26	Pass
-10	-48	0	QPSK	-1.58	3650.73	3669.26	Pass
			16QAM	2.06	3650.73	3669.26	Pass
			64QAM	1.85	3650.73	3669.26	Pass
		1	QPSK	-3.2	3650.73	3669.26	Pass
			16QAM	1.08	3650.73	3669.26	Pass
			64QAM	-3.45	3650.73	3669.26	Pass
		2	QPSK	1.56	3650.73	3669.26	Pass
			16QAM	2.74	3650.73	3669.26	Pass
			64QAM	1.08	3650.73	3669.26	Pass
		3	QPSK	3.25	3650.73	3669.26	Pass
			16QAM	-2.11	3650.73	3669.26	Pass
			64QAM	1.6	3650.73	3669.26	Pass
		4	QPSK	2.85	3650.73	3669.26	Pass
			16QAM	-3.01	3650.73	3669.26	Pass

Frequency Stability vs. Temperature（Channel Bandwidth:20M Frequency :3660MHz） FL=3650.73MHz，FH=3669.26MHz							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Modulation**	**Frequency Measure Error (Hz)**	**FL+ Frequency Offset(MHz)**	**FH+ Frequency Offset(MHz)**	**Result**
			64QAM	-0.56	3650.73	3669.26	Pass
		5	QPSK	-3.11	3650.73	3669.26	Pass
			16QAM	2.25	3650.73	3669.26	Pass
			64QAM	1.05	3650.73	3669.26	Pass
		6	QPSK	-2.8	3650.73	3669.26	Pass
			16QAM	3.14	3650.73	3669.26	Pass
			64QAM	1.59	3650.73	3669.26	Pass
		7	QPSK	-3.11	3650.73	3669.26	Pass
			16QAM	-2.04	3650.73	3669.26	Pass
			64QAM	-2.15	3650.73	3669.26	Pass
0	-48	0	QPSK	1.03	3650.73	3669.26	Pass
			16QAM	1.96	3650.73	3669.26	Pass
			64QAM	3.15	3650.73	3669.26	Pass
		1	QPSK	4.62	3650.73	3669.26	Pass
			16QAM	-1.85	3650.73	3669.26	Pass
			64QAM	2.54	3650.73	3669.26	Pass
		2	QPSK	3.62	3650.73	3669.26	Pass
			16QAM	0.88	3650.73	3669.26	Pass
			64QAM	-2.63	3650.73	3669.26	Pass
		3	QPSK	-1.74	3650.73	3669.26	Pass
			16QAM	2.06	3650.73	3669.26	Pass
			64QAM	-3.21	3650.73	3669.26	Pass
		4	QPSK	-0.85	3650.73	3669.26	Pass
			16QAM	3.63	3650.73	3669.26	Pass
			64QAM	0.95	3650.73	3669.26	Pass
		5	QPSK	-1.28	3650.73	3669.26	Pass
			16QAM	2.63	3650.73	3669.26	Pass
			64QAM	0.89	3650.73	3669.26	Pass
		6	QPSK	3.11	3650.73	3669.26	Pass
			16QAM	-2.53	3650.73	3669.26	Pass
			64QAM	-1.65	3650.73	3669.26	Pass
		7	QPSK	3.26	3650.73	3669.26	Pass
			16QAM	-1.06	3650.73	3669.26	Pass

Frequency Stability vs. Temperature（Channel Bandwidth:20M Frequency :3660MHz） FL=3650.73MHz，FH=3669.26MHz							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Modulation**	**Frequency Measure Error (Hz)**	**FL+ Frequency Offset(MHz)**	**FH+ Frequency Offset(MHz)**	**Result**
			64QAM	1.11	3650.73	3669.26	Pass
10	-48	0	QPSK	-2.84	3650.73	3669.26	Pass
			16QAM	2.45	3650.73	3669.26	Pass
			64QAM	-1.56	3650.73	3669.26	Pass
		1	QPSK	2.09	3650.73	3669.26	Pass
			16QAM	-1.16	3650.73	3669.26	Pass
			64QAM	-2.63	3650.73	3669.26	Pass
		2	QPSK	0.26	3650.73	3669.26	Pass
			16QAM	1.58	3650.73	3669.26	Pass
			64QAM	-2.32	3650.73	3669.26	Pass
		3	QPSK	-2.69	3650.73	3669.26	Pass
			16QAM	-1.05	3650.73	3669.26	Pass
			64QAM	2.35	3650.73	3669.26	Pass
		4	QPSK	-0.63	3650.73	3669.26	Pass
			16QAM	2.58	3650.73	3669.26	Pass
			64QAM	1.69	3650.73	3669.26	Pass
		5	QPSK	2.85	3650.73	3669.26	Pass
			16QAM	1.77	3650.73	3669.26	Pass
			64QAM	-1.26	3650.73	3669.26	Pass
		6	QPSK	-2.36	3650.73	3669.26	Pass
			16QAM	1.85	3650.73	3669.26	Pass
			64QAM	3.26	3650.73	3669.26	Pass
		7	QPSK	2.38	3650.73	3669.26	Pass
			16QAM	2.33	3650.73	3669.26	Pass
			64QAM	-1.9	3650.73	3669.26	Pass
20	-48	0	QPSK	2.55	3650.73	3669.26	Pass
			16QAM	3.61	3650.73	3669.26	Pass
			64QAM	-2.78	3650.73	3669.26	Pass
		1	QPSK	-3.92	3650.73	3669.26	Pass
			16QAM	-1.25	3650.73	3669.26	Pass
			64QAM	-3.26	3650.73	3669.26	Pass
		2	QPSK	-1.12	3650.73	3669.26	Pass
			16QAM	2.15	3650.73	3669.26	Pass