

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	QPSK	3655

Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF50ΩDCSENSE:INTALIGN OFF04:06:11 AM Jan 06, 2020 Center Freq 3.655000000 GHzCenter Freq: 3.655000000 GHzRadio Std: None PASSIFGain:Low#Atten: 10 dBAvg: 100.00% of 10Radio Device: BTS		Frequency																																																																																	
10 dB/divRef Offset 21.47 dBRef 15.3 dBmMkr1 3.65785 GHz-2.0790 dBm Log -5.27 -4.73 -14.7 -24.7 -34.7 -44.7 -54.7 -64.7 -74.7 1 Relative Limit Spectrum Center 3.655 GHzSpan 50 MHz		Center Freq 3.655000000 GHz																																																																																	
Total Power13.16 dBm / 5 MHzSpectrum Peak Ref-0.58 dBm <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.000 MHz</td><td>30.00 kHz</td><td>-2.26</td><td>(-1.68)</td><td>-982.0 k</td><td>-2.03</td><td>(-1.46)</td><td>3.936 M</td></tr><tr><td>5.000 MHz</td><td>10.00 MHz</td><td>30.00 kHz</td><td>-54.63</td><td>(-30.06)</td><td>-9.798 M</td><td>-55.15</td><td>(-29.91)</td><td>9.933 M</td></tr><tr><td>10.00 MHz</td><td>25.00 MHz</td><td>30.00 kHz</td><td>-55.89</td><td>(-29.74)</td><td>-10.85 M</td><td>-54.85</td><td>(-29.07)</td><td>10.29 M</td></tr><tr><td>25.00 MHz</td><td>30.00 MHz</td><td>30.00 kHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table>		Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.000 MHz	30.00 kHz	-2.26	(-1.68)	-982.0 k	-2.03	(-1.46)	3.936 M	5.000 MHz	10.00 MHz	30.00 kHz	-54.63	(-30.06)	-9.798 M	-55.15	(-29.91)	9.933 M	10.00 MHz	25.00 MHz	30.00 kHz	-55.89	(-29.74)	-10.85 M	-54.85	(-29.07)	10.29 M	25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	CF Step 0 Hz AutoMan
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																																											
0.0 Hz	5.000 MHz	30.00 kHz	-2.26	(-1.68)	-982.0 k	-2.03	(-1.46)	3.936 M																																																																											
5.000 MHz	10.00 MHz	30.00 kHz	-54.63	(-30.06)	-9.798 M	-55.15	(-29.91)	9.933 M																																																																											
10.00 MHz	25.00 MHz	30.00 kHz	-55.89	(-29.74)	-10.85 M	-54.85	(-29.07)	10.29 M																																																																											
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—																																																																											
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
		Freq Offset 0 Hz																																																																																	

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	QPSK	3675

Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF50ΩDCSENSE:INTALIGN OFF04:04:59 AM Jan 06, 2020 Center Freq 3.675000000 GHzCenter Freq: 3.675000000 GHzRadio Std: None PASSIFGain:Low#Atten: 10 dBAvg: 100.00% of 10Radio Device: BTS		Frequency																																																																																	
10 dB/divRef Offset 21.47 dBRef 15.3 dBmMkr1 3.6733 GHz-2.3971 dBm Log -5.27 -4.73 -14.7 -24.7 -34.7 -44.7 -54.7 -64.7 -74.7 1 Relative Limit Spectrum Center 3.675 GHzSpan 50 MHz		Center Freq 3.675000000 GHz																																																																																	
Total Power12.71 dBm / 5 MHzSpectrum Peak Ref-1.24 dBm <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.000 MHz</td><td>30.00 kHz</td><td>-2.40</td><td>(-1.15)</td><td>-1.672 M</td><td>-2.56</td><td>(-1.31)</td><td>4.625 M</td></tr><tr><td>5.000 MHz</td><td>10.00 MHz</td><td>30.00 kHz</td><td>-54.51</td><td>(-29.35)</td><td>-9.783 M</td><td>-55.43</td><td>(-30.20)</td><td>9.798 M</td></tr><tr><td>10.00 MHz</td><td>25.00 MHz</td><td>30.00 kHz</td><td>-54.49</td><td>(-27.98)</td><td>-10.40 M</td><td>-65.37</td><td>(-29.35)</td><td>24.66 M</td></tr><tr><td>25.00 MHz</td><td>30.00 MHz</td><td>30.00 kHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table>		Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.000 MHz	30.00 kHz	-2.40	(-1.15)	-1.672 M	-2.56	(-1.31)	4.625 M	5.000 MHz	10.00 MHz	30.00 kHz	-54.51	(-29.35)	-9.783 M	-55.43	(-30.20)	9.798 M	10.00 MHz	25.00 MHz	30.00 kHz	-54.49	(-27.98)	-10.40 M	-65.37	(-29.35)	24.66 M	25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	CF Step 0 Hz AutoMan
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																																											
0.0 Hz	5.000 MHz	30.00 kHz	-2.40	(-1.15)	-1.672 M	-2.56	(-1.31)	4.625 M																																																																											
5.000 MHz	10.00 MHz	30.00 kHz	-54.51	(-29.35)	-9.783 M	-55.43	(-30.20)	9.798 M																																																																											
10.00 MHz	25.00 MHz	30.00 kHz	-54.49	(-27.98)	-10.40 M	-65.37	(-29.35)	24.66 M																																																																											
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—																																																																											
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																											
		Freq Offset 0 Hz																																																																																	

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	QPSK	3695

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:07:53 AM Jan 06, 2020

Center Freq 3.695000000 GHz

Center Freq: 3.695000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

IFGain:Low

#Atten: 10 dB

Radio Device: BTS

PASS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.69085 GHz

-2.9532 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.695 GHz

Span 50 MHz

Total Power

12.38 dBm / 5 MHz

Spectrum Peak Ref

-1.37 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	5.000 MHz	30.00 kHz	-2.95	(-1.58)	-4.130 M	-2.86	(-1.49)	427.3 k
5.000 MHz	10.00 MHz	30.00 kHz	-54.67	(-28.79)	-9.903 M	-55.67	(-30.91)	9.678 M
10.00 MHz	25.00 MHz	30.00 kHz	-55.74	(-29.26)	-10.17 M	-64.38	(-29.08)	23.40 M
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.695000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	16QAM	3655

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:10:56 AM Jan 06, 2020

Center Freq 3.655000000 GHz

Center Freq: 3.655000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

IFGain:Low

#Atten: 10 dB

Radio Device: BTS

PASS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6512 GHz

-1.5531 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.655 GHz

Span 50 MHz

Total Power

13.16 dBm / 5 MHz

Spectrum Peak Ref

-0.53 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	5.000 MHz	30.00 kHz	-1.55	(-1.02)	-3.771 M	-1.77	(-1.24)	2.181 M
5.000 MHz	10.00 MHz	30.00 kHz	-54.37	(-29.93)	-9.783 M	-55.28	(-30.84)	9.783 M
10.00 MHz	25.00 MHz	30.00 kHz	-55.28	(-29.31)	-10.67 M	-54.86	(-29.13)	10.31 M
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.655000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	16QAM	3675

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:09:57 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

IFGain:Low

#Atten: 10 dB

Radio Device: BTS

PASS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.67365 GHz

-2.0881 dBm

10 dB/div

Log

-5.27

-4.73

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Spectrum

Relative Limit

Center 3.675 GHz

Span 50 MHz

Total Power

12.79 dBm / 5 MHz

Spectrum Peak Ref

-1.54 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	5.000 MHz	30.00 kHz	-2.09	(-0.55)	-1.327 M	-2.61	(-1.07)	3.921 M
5.000 MHz	10.00 MHz	30.00 kHz	-54.94	(-28.51)	-9.978 M	-55.10	(-29.56)	9.798 M
10.00 MHz	25.00 MHz	30.00 kHz	-54.01	(-27.46)	-10.02 M	-55.11	(-28.46)	10.17 M
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.675000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	16QAM	3695

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:08:54 AM Jan 06, 2020

Center Freq 3.695000000 GHz

Center Freq: 3.695000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

IFGain:Low

#Atten: 10 dB

Radio Device: BTS

PASS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.69855 GHz

-2.2833 dBm

10 dB/div

Log

-5.27

-4.73

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Spectrum

Relative Limit

Center 3.695 GHz

Span 50 MHz

Total Power

12.24 dBm / 5 MHz

Spectrum Peak Ref

-1.01 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	5.000 MHz	30.00 kHz	-2.85	(-1.84)	-3.771 M	-2.24	(-1.23)	3.936 M
5.000 MHz	10.00 MHz	30.00 kHz	-55.19	(-30.72)	-9.693 M	-55.99	(-30.92)	9.813 M
10.00 MHz	25.00 MHz	30.00 kHz	-55.74	(-29.59)	-10.22 M	-64.83	(-29.90)	23.40 M
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.695000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	64QAM	3655

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

04:11:55 AM Jan 06, 2020

Center Freq 3.655000000 GHz

Center Freq: 3.655000000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

#Atten: 10 dB

Avg: 100.00% of 10

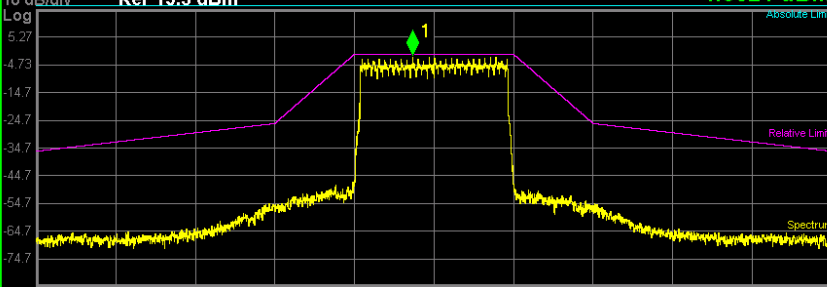
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.65365 GHz

-1.9624 dBm



Center 3.655 GHz

Span 50 MHz

Total Power 13.03 dBm / 5 MHz

Spectrum Peak Ref -0.88 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	
0.0 Hz	5.000 MHz	30.00 kHz	-1.96	(-1.08)	-1.327 M	-1.88	(-1.00)	3.921 M
5.000 MHz	10.00 MHz	30.00 kHz	-55.23	(-29.68)	-9.933 M	-55.68	(-29.83)	9.993 M
10.00 MHz	25.00 MHz	30.00 kHz	-54.63	(-28.54)	-10.32 M	-54.94	(-28.99)	10.11 M
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq
3.655000000 GHz

CF Step
0 Hz

Auto

Freq Offset
0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	64QAM	3675

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Q

DC

SENSE:INT

ALIGN OFF

04:12:42 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Radio Std: None

PASS

IF Gain: Low

Trig: Free Run

#Atten: 10 dB

Avg: 100.00% of 10

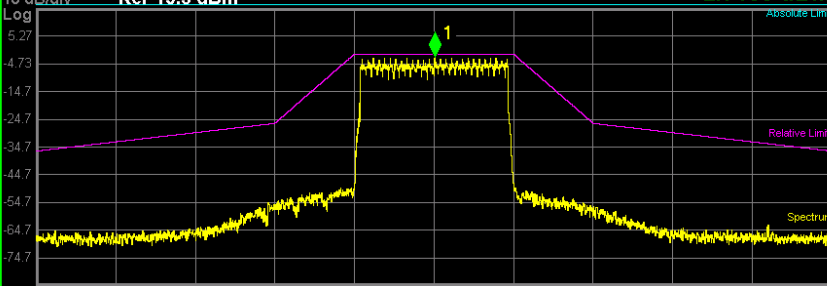
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.67505 GHz

-2.7158 dBm



Center 3.675 GHz

Span 50 MHz

Total Power 12.61 dBm / 5 MHz

Spectrum Peak Ref -1.20 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	
0.0 Hz	5.000 MHz	30.00 kHz	-2.66	(-1.46)	-2.721 M	-2.72	(-1.52)	82.46 k
5.000 MHz	10.00 MHz	30.00 kHz	-54.16	(-29.20)	-9.753 M	-55.84	(-30.28)	9.873 M
10.00 MHz	25.00 MHz	30.00 kHz	-54.88	(-28.43)	-10.38 M	-62.90	(-29.37)	21.00 M
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq
3.675000000 GHz

CF Step
0 Hz

Auto

Freq Offset
0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	64QAM	3695

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:13:20 AM Jan 06, 2020

Center Freq 3.695000000 GHz

Center Freq: 3.695000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

#Atten: 10 dB

Radio Device: BTS

PASS

IF Gain: Low

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6975 GHz

-2.8616 dBm

Center 3.695 GHz

Span 50 MHz

Total Power 12.40 dBm / 5 MHz

Spectrum Peak Ref -1.64 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	5.000 MHz	30.00 kHz	-2.87	(-1.22)	-2.721 M	-2.70	(-1.06)	2.871 M
5.000 MHz	10.00 MHz	30.00 kHz	-55.01	(-29.01)	-9.873 M	-55.56	(-30.45)	9.693 M
10.00 MHz	25.00 MHz	30.00 kHz	-54.45	(-27.68)	-10.19 M	-64.18	(-28.61)	23.40 M
25.00 MHz	30.00 MHz	30.00 kHz	—	(—)	—	—	(—)	—
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq 3.695000000 GHz

CF Step 0 Hz

Auto

Man

Freq Offset 0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
10MHz	256QAM	3655

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:29:40 AM Jan 06, 2020

Center Freq 3.655000000 GHz

Center Freq: 3.655000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

#Atten: 10 dB

Radio Device: BTS

PASS

IF Gain: Low

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6575 GHz

-0.49286 dBm

Center 3.655 GHz

Span 50 MHz

Total Power 13.15 dBm / 5 MHz

Spectrum Peak Ref -0.23 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	5.000 MHz	30.00 kHz	-0.82	(-0.59)	-1.321 M	-0.48	(-0.25)	3.574 M
5.000 MHz	10.00 MHz	30.00 kHz	-55.30	(-30.11)	-9.993 M	-54.35	(-29.76)	9.873 M
10.00 MHz	25.00 MHz	30.00 kHz	-54.43	(-29.05)	-10.22 M	-56.25	(-30.49)	10.79 M
25.00 MHz	25.00 MHz	30.00 kHz	-70.25	(-35.02)	-25.00 M	-69.89	(-34.66)	25.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq 3.655000000 GHz

CF Step 0 Hz

Auto

Man

Freq Offset 0 Hz



Spectrum Mask Emissions Result

Appendix E



Worst Case Mode	Modulation	Freq. (MHz)
40MHz	QPSK	3670

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:43:37 AM Jan 06, 2020

Center Freq 3.670000000 GHz

Center Freq: 3.670000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6772 GHz

-3.0270 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.67 GHz

Span 200 MHz

Total Power

10.28 dBm / 5 MHz

Spectrum Peak Ref

-2.76 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-3.08	(-0.32)	-15.08 M	-2.86	(-0.10)	17.13 M
20.00 MHz	40.00 MHz	30.00 kHz	-50.18	(-22.59)	-39.86 M	-56.35	(-28.70)	39.91 M
40.00 MHz	100.0 MHz	30.00 kHz	-49.83	(-21.68)	-42.33 M	-58.26	(-21.63)	93.21 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.70	(-16.94)	-40.00 M	-59.84	(-22.08)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.670000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
40MHz	QPSK	3675

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:46:06 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6836 GHz

-2.9084 dBm

10 dB/div

Log

5.27

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.675 GHz

Span 200 MHz

Total Power

9.85 dBm / 5 MHz

Spectrum Peak Ref

-2.46 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.91	(-0.45)	-15.08 M	-2.91	(-0.45)	8.732 M
20.00 MHz	40.00 MHz	30.00 kHz	-49.70	(-22.50)	-39.79 M	-56.16	(-29.40)	39.44 M
40.00 MHz	100.0 MHz	30.00 kHz	-58.47	(-22.51)	-91.00 M	-58.91	(-23.42)	88.20 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.83	(-17.38)	-40.00 M	-60.11	(-22.65)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.675000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
40MHz	QPSK	3680

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:47:03 AM Jan 06, 2020

Center Freq 3.680000000 GHz

Center Freq: 3.680000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6732 GHz

-2.8936 dBm

10 dB/div

Log

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.68 GHz

Span 200 MHz

Total Power

9.73 dBm / 5 MHz

Spectrum Peak Ref

-2.86 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.89	(-0.04)	-6.677 M	-2.99	(-0.13)	18.53 M
20.00 MHz	40.00 MHz	30.00 kHz	-49.63	(-23.19)	-38.86 M	-54.40	(-28.53)	38.41 M
40.00 MHz	100.0 MHz	30.00 kHz	-49.10	(-21.14)	-40.60 M	-59.86	(-24.81)	83.20 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.11	(-16.26)	-40.00 M	-60.33	(-22.47)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.680000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
40MHz	16QAM	3670

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:51:02 AM Jan 06, 2020

Center Freq 3.670000000 GHz

Center Freq: 3.670000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6842 GHz

-2.9843 dBm

10 dB/div

Log

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.67 GHz

Span 200 MHz

Total Power

10.25 dBm / 5 MHz

Spectrum Peak Ref

-2.33 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.88	(-0.55)	-16.47 M	-2.77	(-0.44)	18.53 M
20.00 MHz	40.00 MHz	30.00 kHz	-50.04	(-23.48)	-39.38 M	-56.50	(-29.28)	39.91 M
40.00 MHz	100.0 MHz	30.00 kHz	-58.08	(-23.09)	-85.99 M	-59.71	(-23.51)	93.21 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.70	(-17.37)	-40.00 M	-59.83	(-22.50)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.670000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulaton	Freq. (MHz)
40MHz	16QAM	3675

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:50:02 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

Radio Device: BTS

PASS

IFGain:Low

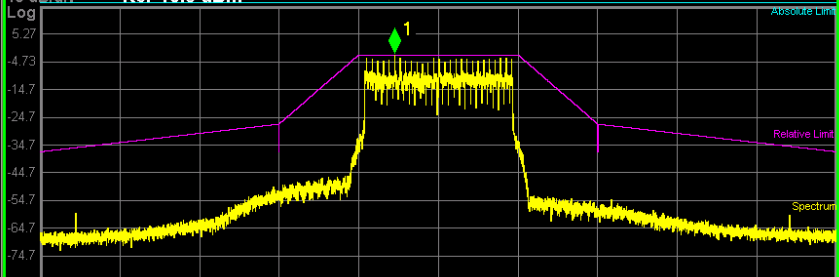
#Atten: 10 dB

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.664 GHz

-2.2833 dBm



Center 3.675 GHz

Span 200 MHz

Total Power 10.50 dBm / 5 MHz

Spectrum Peak Ref -2.18 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.28	(-0.10)	-10.88 M	-3.32	(-1.14)	15.72 M
20.00 MHz	40.00 MHz	30.00 kHz	-49.07	(-23.30)	-38.87 M	-55.57	(-29.50)	39.11 M
40.00 MHz	100.0 MHz	30.00 kHz	-49.98	(-22.57)	-41.40 M	-60.06	(-24.85)	88.20 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.51	(-17.33)	-40.00 M	-60.38	(-23.20)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq
3.675000000 GHz

CF Step
0 Hz

Auto

Man

Freq Offset
0 Hz

Worst Case Mode	Modulaton	Freq. (MHz)
40MHz	16QAM	3680

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:49:05 AM Jan 06, 2020

Center Freq 3.680000000 GHz

Center Freq: 3.680000000 GHz

Radio Std: None

Trig: Free Run

Avg: 100.00% of 10

Radio Device: BTS

PASS

IFGain:Low

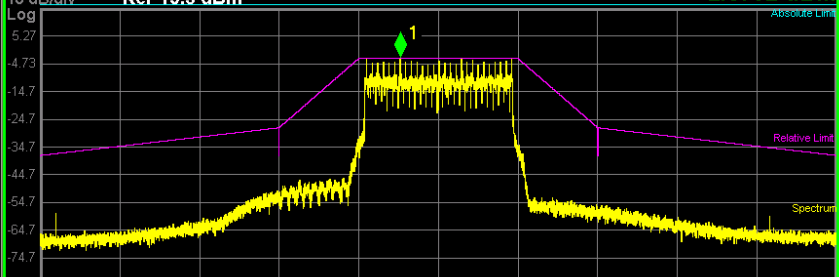
#Atten: 10 dB

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6704 GHz

-2.8792 dBm



Center 3.68 GHz

Span 200 MHz

Total Power 9.87 dBm / 5 MHz

Spectrum Peak Ref -2.78 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.88	(-0.10)	-9.467 M	-2.89	(-0.11)	18.53 M
20.00 MHz	40.00 MHz	30.00 kHz	-50.02	(-22.24)	-40.00 M	-55.67	(-28.39)	39.61 M
40.00 MHz	100.0 MHz	30.00 kHz	-58.83	(-21.72)	-96.01 M	-59.76	(-24.78)	83.20 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.30	(-16.53)	-40.00 M	-60.39	(-22.61)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq
3.680000000 GHz

CF Step
0 Hz

Auto

Man

Freq Offset
0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
40MHz	64QAM	3670

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:52:40 AM Jan 06, 2020

Center Freq 3.670000000 GHz

Center Freq: 3.670000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

PASS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6632 GHz

-2.6649 dBm

10 dB/div

Log

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.67 GHz

Span 200 MHz

Total Power

10.28 dBm / 5 MHz

Spectrum Peak Ref

-2.54 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.66	(-0.12)	-6.677 M	-3.02	(-0.48)	1.725 M
20.00 MHz	40.00 MHz	30.00 kHz	-50.69	(-23.26)	-39.91 M	-55.32	(-28.12)	39.73 M
40.00 MHz	100.0 MHz	30.00 kHz	-49.97	(-22.36)	-40.44 M	-60.51	(-24.10)	93.21 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.29	(-16.75)	-40.00 M	-59.81	(-22.27)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq
3.670000000 GHz

CF Step
0 Hz

Auto

Man

Freq Offset
0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
40MHz	64QAM	3675

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:55:01 AM Jan 06, 2020

Center Freq 3.675000000 GHz

Center Freq: 3.675000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

IF Gain: Low

#Atten: 10 dB

Radio Device: BTS

PASS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6584 GHz

-2.7860 dBm

10 dB/div

Log

-4.73

-14.7

-24.7

-34.7

-44.7

-54.7

-64.7

-74.7

Center 3.675 GHz

Span 200 MHz

Total Power

10.37 dBm / 5 MHz

Spectrum Peak Ref

-2.09 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.79	(-0.70)	-16.47 M	-2.69	(-0.60)	15.72 M
20.00 MHz	40.00 MHz	30.00 kHz	-49.78	(-23.80)	-39.11 M	-54.76	(-27.93)	39.79 M
40.00 MHz	100.0 MHz	30.00 kHz	-50.41	(-23.10)	-41.40 M	-60.05	(-24.93)	88.21 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.08	(-16.99)	-40.00 M	-59.81	(-22.73)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq
3.675000000 GHz

CF Step
0 Hz

Auto

Man

Freq Offset
0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
40MHz	64QAM	3680

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

04:56:39 AM Jan 06, 2020

Center Freq 3.680000000 GHz

Center Freq: 3.680000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

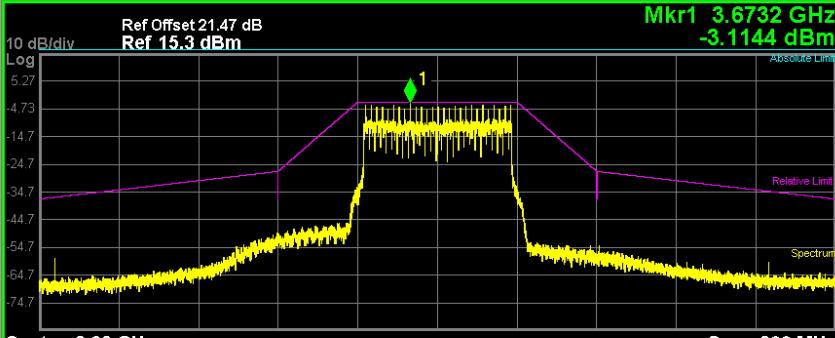
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6732 GHz

-3.1144 dBm



Center 3.68 GHz

Span 200 MHz

Total Power

10.29 dBm / 5 MHz

Spectrum Peak Ref

-2.28 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-3.11	(-0.84)	-6.677 M	-3.32	(-1.04)	8.732 M
20.00 MHz	40.00 MHz	30.00 kHz	-49.69	(-22.54)	-39.89 M	-54.27	(-29.02)	38.38 M
40.00 MHz	100.0 MHz	30.00 kHz	-58.82	(-22.21)	-96.00 M	-60.05	(-25.58)	83.20 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.49	(-17.21)	-40.00 M	-59.92	(-22.64)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.680000000 GHz

CF Step

0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulation	Freq. (MHz)
40MHz	256QAM	3670

Agilent Spectrum Analyzer - Spectrum Emission Mask

RL

RF

50 Ω

DC

SENSE:INT

ALIGN OFF

05:02:22 AM Jan 06, 2020

Center Freq 3.670000000 GHz

Center Freq: 3.670000000 GHz

Trig: Free Run

Avg: 100.00% of 10

Radio Std: None

PASS

IF Gain: Low

#Atten: 10 dB

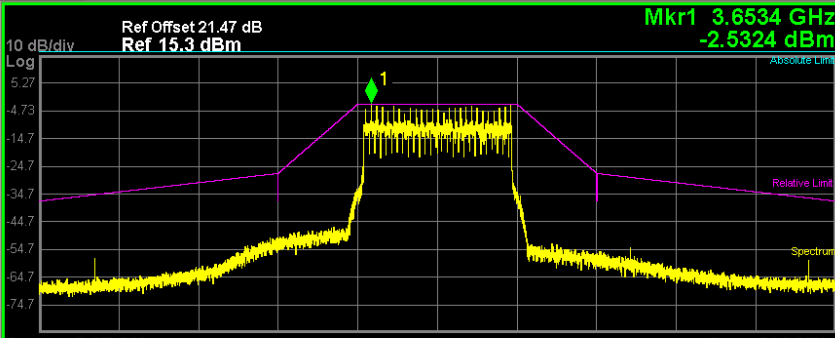
Radio Device: BTS

Ref Offset 21.47 dB

Ref 15.3 dBm

Mkr1 3.6534 GHz

-2.5324 dBm



Center 3.67 GHz

Span 200 MHz

Total Power

10.38 dBm / 5 MHz

Spectrum Peak Ref

-2.30 dBm

Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)
0.0 Hz	20.00 MHz	30.00 kHz	-2.53	(-0.24)	-16.47 M	-2.70	(-0.40)	18.53 M
20.00 MHz	40.00 MHz	30.00 kHz	-50.37	(-23.58)	-39.59 M	-56.39	(-29.24)	39.88 M
40.00 MHz	100.0 MHz	30.00 kHz	-50.42	(-22.79)	-42.00 M	-58.58	(-22.42)	93.21 M
40.00 MHz	40.00 MHz	30.00 kHz	-54.73	(-17.43)	-40.00 M	-60.26	(-22.96)	40.00 M
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—

MSG

STATUS

Frequency

Center Freq

3.670000000 GHz

CF Step

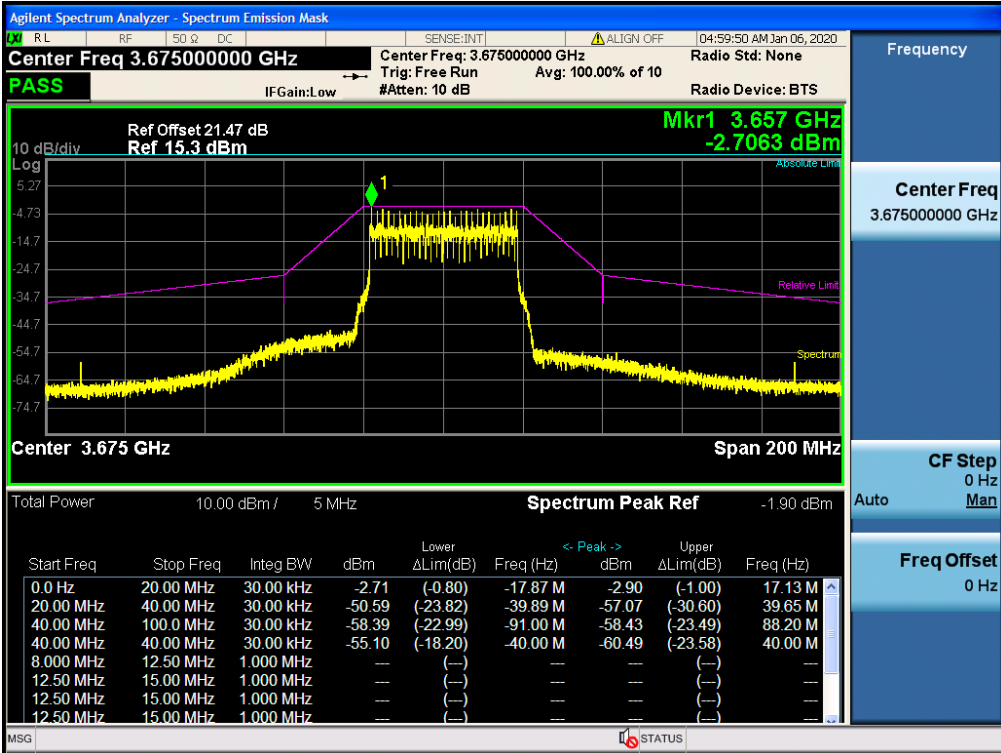
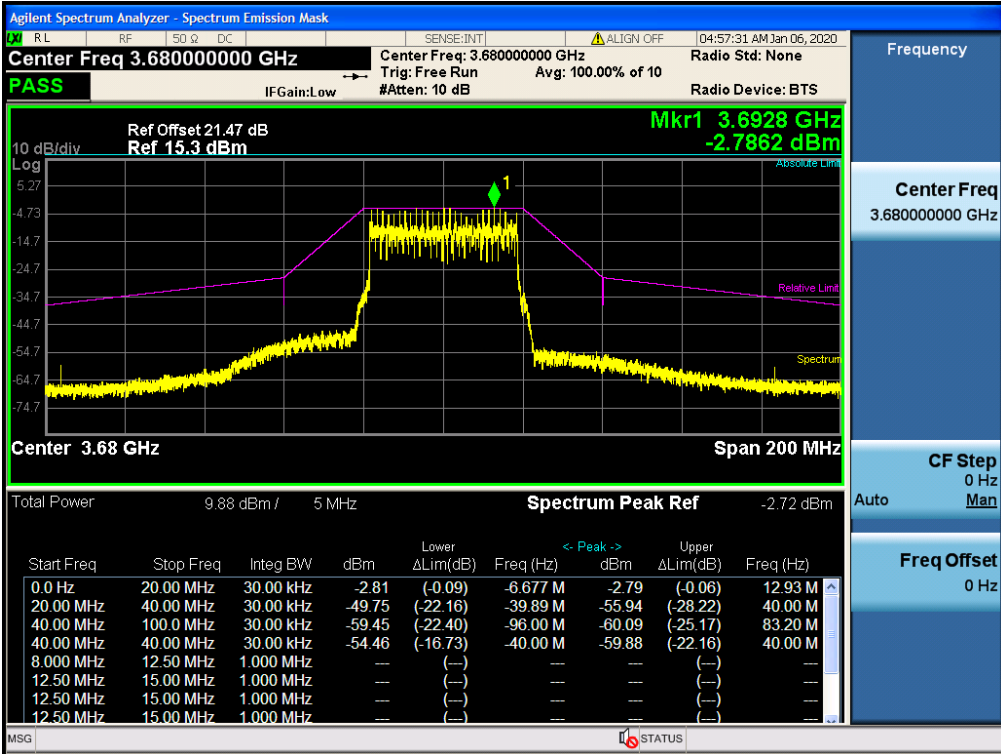
0 Hz

Auto

Man

Freq Offset

0 Hz

Worst Case Mode	Modulaton	Freq. (MHz)
40MHz	256QAM	3675
 Frequency Center Freq 3.675000000 GHz CF Step 0 Hz Auto Man Freq Offset 0 Hz		
Worst Case Mode	Modulaton	Freq. (MHz)
40MHz	256QAM	3680
 Frequency Center Freq 3.680000000 GHz CF Step 0 Hz Auto Man Freq Offset 0 Hz		



Frequency Stability Result

Appendix F

For 5MHz: Summary

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh)	Port	Remark
Band 43	-	-	-	-	-	-	-	-	-
5MHz_QPSK_2TX	Pass	3.6525G	3.652511G	3.650151G	3.654871G	2.952	3.6G,3.8G	1	-
5MHz_16QAM_2TX	Pass	3.6525G	3.652509G	3.650148G	3.65487G	2.438	3.6G,3.8G	1	-
5MHz_64QAM_2TX	Pass	3.6525G	3.652507G	3.650144G	3.654869G	1.797	3.6G,3.8G	1	-
5MHz_256QAM_2TX	Pass	3.6525G	3.652511G	3.650152G	3.65487G	2.952	3.6G,3.8G	1	-



Frequency Stability Result

Appendix F

Result

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh)	Port	Remark
Band 43_5MHz_QPSK_2TX	-	-	-	-	-	-	-	-	-
3652.5MHz_-30°C	Pass	3.6525G	3.652515G	3.650156G	3.654874G	4.107	3.6G,3.8G	1	-
3652.5MHz_-20°C	Pass	3.6525G	3.652511G	3.650151G	3.654871G	2.952	3.6G,3.8G	1	-
3652.5MHz_-10°C	Pass	3.6525G	3.652512G	3.650151G	3.654874G	3.337	3.6G,3.8G	1	-
3652.5MHz_0°C	Pass	3.6525G	3.652513G	3.650154G	3.654872G	3.593	3.6G,3.8G	1	-
3652.5MHz_10°C	Pass	3.6525G	3.652515G	3.650161G	3.65487G	4.235	3.6G,3.8G	1	-
3652.5MHz_20°C	Pass	3.6525G	3.652515G	3.650158G	3.654872G	4.107	3.6G,3.8G	1	-
3652.5MHz_30°C	Pass	3.6525G	3.652514G	3.650158G	3.65487G	3.85	3.6G,3.8G	1	-
3652.5MHz_40°C	Pass	3.6525G	3.652513G	3.650154G	3.654872G	3.593	3.6G,3.8G	1	-
3652.5MHz_50°C	Pass	3.6525G	3.652514G	3.650159G	3.654869G	3.85	3.6G,3.8G	1	-
3652.5MHz_126.5V	Pass	3.6525G	3.652515G	3.650156G	3.654875G	4.235	3.6G,3.8G	1	-
3652.5MHz_110V	Pass	3.6525G	3.652515G	3.650156G	3.654874G	4.107	3.6G,3.8G	1	-
3652.5MHz_93.5V	Pass	3.6525G	3.65251G	3.650153G	3.654867G	2.823	3.6G,3.8G	1	-
3697.5MHz_-30°C	Pass	3.6975G	3.697514G	3.695168G	3.699859G	3.676	3.6G,3.8G	1	-
3697.5MHz_-20°C	Pass	3.6975G	3.697513G	3.695166G	3.699861G	3.55	3.6G,3.8G	1	-
3697.5MHz_-10°C	Pass	3.6975G	3.697515G	3.695166G	3.699863G	3.93	3.6G,3.8G	1	-
3697.5MHz_0°C	Pass	3.6975G	3.697518G	3.695167G	3.699869G	4.817	3.6G,3.8G	1	-
3697.5MHz_10°C	Pass	3.6975G	3.697513G	3.695166G	3.699861G	3.55	3.6G,3.8G	1	-
3697.5MHz_20°C	Pass	3.6975G	3.697516G	3.695168G	3.699864G	4.31	3.6G,3.8G	1	-
3697.5MHz_30°C	Pass	3.6975G	3.697516G	3.695171G	3.699862G	4.437	3.6G,3.8G	1	-
3697.5MHz_40°C	Pass	3.6975G	3.697514G	3.695168G	3.699859G	3.676	3.6G,3.8G	1	-
3697.5MHz_50°C	Pass	3.6975G	3.697512G	3.695166G	3.699859G	3.296	3.6G,3.8G	1	-
3697.5MHz_126.5V	Pass	3.6975G	3.697516G	3.695168G	3.699863G	4.31	3.6G,3.8G	1	-
3697.5MHz_110V	Pass	3.6975G	3.697515G	3.695168G	3.699862G	3.93	3.6G,3.8G	1	-
3697.5MHz_93.5V	Pass	3.6975G	3.697514G	3.695167G	3.699861G	3.676	3.6G,3.8G	1	-
Band 43_5MHz_16QAM_2TX	-	-	-	-	-	-	-	-	-
3652.5MHz_-30°C	Pass	3.6525G	3.652515G	3.650154G	3.654875G	3.978	3.6G,3.8G	1	-
3652.5MHz_-20°C	Pass	3.6525G	3.652513G	3.650153G	3.654874G	3.593	3.6G,3.8G	1	-
3652.5MHz_-10°C	Pass	3.6525G	3.652515G	3.650157G	3.654872G	3.978	3.6G,3.8G	1	-
3652.5MHz_0°C	Pass	3.6525G	3.652513G	3.650156G	3.65487G	3.593	3.6G,3.8G	1	-
3652.5MHz_10°C	Pass	3.6525G	3.652514G	3.650152G	3.654876G	3.722	3.6G,3.8G	1	-
3652.5MHz_20°C	Pass	3.6525G	3.652512G	3.650152G	3.654873G	3.337	3.6G,3.8G	1	-
3652.5MHz_30°C	Pass	3.6525G	3.652511G	3.650152G	3.65487G	2.952	3.6G,3.8G	1	-
3652.5MHz_40°C	Pass	3.6525G	3.652509G	3.650148G	3.65487G	2.438	3.6G,3.8G	1	-
3652.5MHz_50°C	Pass	3.6525G	3.652514G	3.650155G	3.654873G	3.85	3.6G,3.8G	1	-
3652.5MHz_126.5V	Pass	3.6525G	3.65251G	3.650148G	3.654872G	2.695	3.6G,3.8G	1	-
3652.5MHz_110V	Pass	3.6525G	3.652512G	3.650155G	3.654868G	3.208	3.6G,3.8G	1	-
3652.5MHz_93.5V	Pass	3.6525G	3.652513G	3.650153G	3.654873G	3.593	3.6G,3.8G	1	-



Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh)	Port	Remark
3697.5MHz_-30°C	Pass	3.6975G	3.697515G	3.695165G	3.699866G	4.184	3.6G,3.8G	1	-
3697.5MHz_-20°C	Pass	3.6975G	3.697512G	3.695161G	3.699863G	3.169	3.6G,3.8G	1	-
3697.5MHz_-10°C	Pass	3.6975G	3.697514G	3.695166G	3.699862G	3.676	3.6G,3.8G	1	-
3697.5MHz_0°C	Pass	3.6975G	3.697515G	3.695169G	3.699861G	4.057	3.6G,3.8G	1	-
3697.5MHz_10°C	Pass	3.6975G	3.697518G	3.695174G	3.699862G	4.817	3.6G,3.8G	1	-
3697.5MHz_20°C	Pass	3.6975G	3.697514G	3.69517G	3.699858G	3.803	3.6G,3.8G	1	-
3697.5MHz_30°C	Pass	3.6975G	3.697509G	3.695161G	3.699858G	2.535	3.6G,3.8G	1	-
3697.5MHz_40°C	Pass	3.6975G	3.697511G	3.695161G	3.699862G	3.043	3.6G,3.8G	1	-
3697.5MHz_50°C	Pass	3.6975G	3.697509G	3.695162G	3.699857G	2.535	3.6G,3.8G	1	-
3697.5MHz_126.5V	Pass	3.6975G	3.697515G	3.695163G	3.699868G	4.184	3.6G,3.8G	1	-
3697.5MHz_110V	Pass	3.6975G	3.697514G	3.695166G	3.699863G	3.803	3.6G,3.8G	1	-
3697.5MHz_93.5V	Pass	3.6975G	3.69751G	3.695166G	3.699855G	2.789	3.6G,3.8G	1	-
Band 43_5MHz_64QAM_2TX	-	-	-	-	-	-	-	-	-
3652.5MHz_-30°C	Pass	3.6525G	3.652512G	3.65015G	3.654875G	3.337	3.6G,3.8G	1	-
3652.5MHz_-20°C	Pass	3.6525G	3.652513G	3.650155G	3.654871G	3.593	3.6G,3.8G	1	-
3652.5MHz_-10°C	Pass	3.6525G	3.652515G	3.650158G	3.654871G	3.978	3.6G,3.8G	1	-
3652.5MHz_0°C	Pass	3.6525G	3.652513G	3.650155G	3.654871G	3.593	3.6G,3.8G	1	-
3652.5MHz_10°C	Pass	3.6525G	3.652513G	3.650155G	3.654871G	3.593	3.6G,3.8G	1	-
3652.5MHz_20°C	Pass	3.6525G	3.65251G	3.65015G	3.654871G	2.823	3.6G,3.8G	1	-
3652.5MHz_30°C	Pass	3.6525G	3.652513G	3.650153G	3.654873G	3.465	3.6G,3.8G	1	-
3652.5MHz_40°C	Pass	3.6525G	3.652507G	3.650144G	3.654869G	1.797	3.6G,3.8G	1	-
3652.5MHz_50°C	Pass	3.6525G	3.652512G	3.650154G	3.65487G	3.337	3.6G,3.8G	1	-
3652.5MHz_126.5V	Pass	3.6525G	3.65251G	3.65015G	3.65487G	2.695	3.6G,3.8G	1	-
3652.5MHz_110V	Pass	3.6525G	3.652512G	3.650156G	3.654868G	3.337	3.6G,3.8G	1	-
3652.5MHz_93.5V	Pass	3.6525G	3.652511G	3.650153G	3.65487G	3.08	3.6G,3.8G	1	-
3697.5MHz_-30°C	Pass	3.6975G	3.697515G	3.695164G	3.699865G	3.93	3.6G,3.8G	1	-
3697.5MHz_-20°C	Pass	3.6975G	3.697512G	3.695162G	3.699863G	3.296	3.6G,3.8G	1	-
3697.5MHz_-10°C	Pass	3.6975G	3.697511G	3.695161G	3.699862G	3.043	3.6G,3.8G	1	-
3697.5MHz_0°C	Pass	3.6975G	3.697516G	3.695166G	3.699867G	4.437	3.6G,3.8G	1	-
3697.5MHz_10°C	Pass	3.6975G	3.697518G	3.69517G	3.699866G	4.944	3.6G,3.8G	1	-
3697.5MHz_20°C	Pass	3.6975G	3.697514G	3.695165G	3.699863G	3.803	3.6G,3.8G	1	-
3697.5MHz_30°C	Pass	3.6975G	3.697516G	3.695168G	3.699864G	4.437	3.6G,3.8G	1	-
3697.5MHz_40°C	Pass	3.6975G	3.697514G	3.695166G	3.699862G	3.676	3.6G,3.8G	1	-
3697.5MHz_50°C	Pass	3.6975G	3.697515G	3.69517G	3.699861G	4.184	3.6G,3.8G	1	-
3697.5MHz_126.5V	Pass	3.6975G	3.697511G	3.695158G	3.699864G	3.043	3.6G,3.8G	1	-
3697.5MHz_110V	Pass	3.6975G	3.697512G	3.695166G	3.699859G	3.296	3.6G,3.8G	1	-
3697.5MHz_93.5V	Pass	3.6975G	3.697517G	3.69517G	3.699864G	4.691	3.6G,3.8G	1	-
Band 43_5MHz_256QAM_2TX	-	-	-	-	-	-	-	-	-



Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh)	Port	Remark
3652.5MHz_-30°C	Pass	3.6525G	3.652514G	3.650159G	3.654869G	3.85	3.6G,3.8G	1	-
3652.5MHz_-20°C	Pass	3.6525G	3.652509G	3.650153G	3.654865G	2.438	3.6G,3.8G	1	-
3652.5MHz_-10°C	Pass	3.6525G	3.652511G	3.650153G	3.654868G	2.952	3.6G,3.8G	1	-
3652.5MHz_0°C	Pass	3.6525G	3.652514G	3.650157G	3.654871G	3.85	3.6G,3.8G	1	-
3652.5MHz_10°C	Pass	3.6525G	3.652511G	3.650155G	3.654867G	3.08	3.6G,3.8G	1	-
3652.5MHz_20°C	Pass	3.6525G	3.652512G	3.650157G	3.654867G	3.337	3.6G,3.8G	1	-
3652.5MHz_30°C	Pass	3.6525G	3.652512G	3.650155G	3.654868G	3.208	3.6G,3.8G	1	-
3652.5MHz_40°C	Pass	3.6525G	3.652511G	3.650158G	3.654864G	3.08	3.6G,3.8G	1	-
3652.5MHz_50°C	Pass	3.6525G	3.652514G	3.650164G	3.654864G	3.85	3.6G,3.8G	1	-
3652.5MHz_126.5V	Pass	3.6525G	3.652512G	3.650157G	3.654867G	3.337	3.6G,3.8G	1	-
3652.5MHz_110V	Pass	3.6525G	3.652511G	3.650152G	3.65487G	2.952	3.6G,3.8G	1	-
3652.5MHz_93.5V	Pass	3.6525G	3.652515G	3.650162G	3.654867G	3.978	3.6G,3.8G	1	-
3697.5MHz_-30°C	Pass	3.6975G	3.697511G	3.69516G	3.699862G	2.916	3.6G,3.8G	1	-
3697.5MHz_-20°C	Pass	3.6975G	3.697509G	3.69516G	3.699859G	2.535	3.6G,3.8G	1	-
3697.5MHz_-10°C	Pass	3.6975G	3.697513G	3.695165G	3.699862G	3.55	3.6G,3.8G	1	-
3697.5MHz_0°C	Pass	3.6975G	3.69751G	3.695159G	3.699861G	2.662	3.6G,3.8G	1	-
3697.5MHz_10°C	Pass	3.6975G	3.69751G	3.695164G	3.699856G	2.662	3.6G,3.8G	1	-
3697.5MHz_20°C	Pass	3.6975G	3.697513G	3.695162G	3.699864G	3.55	3.6G,3.8G	1	-
3697.5MHz_30°C	Pass	3.6975G	3.697515G	3.695168G	3.699863G	4.184	3.6G,3.8G	1	-
3697.5MHz_40°C	Pass	3.6975G	3.697514G	3.695161G	3.699867G	3.803	3.6G,3.8G	1	-
3697.5MHz_50°C	Pass	3.6975G	3.697513G	3.695164G	3.699863G	3.55	3.6G,3.8G	1	-
3697.5MHz_126.5V	Pass	3.6975G	3.697511G	3.69516G	3.699862G	2.916	3.6G,3.8G	1	-
3697.5MHz_110V	Pass	3.6975G	3.697512G	3.695163G	3.699862G	3.296	3.6G,3.8G	1	-
3697.5MHz_93.5V	Pass	3.6975G	3.697512G	3.695163G	3.699862G	3.296	3.6G,3.8G	1	-



Frequency Stability Result

Appendix F

For 10MHz and 40MHz: Summary

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
Band 43	-	-	-	-	-	-	-	-	-
10MHz_QPSK_2TX	Pass	3.695G	3.695019G	3.690316G	3.699721G	5.074	3.65G,3.7G,Inf	1	-
10MHz_16QAM_2TX	Pass	3.695G	3.695021G	3.690318G	3.699723G	5.582	3.65G,3.7G,Inf	1	-
10MHz_64QAM_2TX	Pass	3.695G	3.695023G	3.690322G	3.699723G	6.089	3.65G,3.7G,Inf	1	-
10MHz_256QAM_2TX	Pass	3.695G	3.695023G	3.690324G	3.699721G	6.089	3.65G,3.7G,Inf	1	-
40MHz_QPSK_2TX	Pass	3.68G	3.68009G	3.66089G	3.69929G	24.457	3.65G,3.7G,Inf	1	-
40MHz_16QAM_2TX	Pass	3.68G	3.680098G	3.660898G	3.699298G	26.495	3.65G,3.7G,Inf	1	-
40MHz_64QAM_2TX	Pass	3.68G	3.680105G	3.660913G	3.699298G	28.533	3.65G,3.7G,Inf	1	-
40MHz_256QAM_2TX	Pass	3.68G	3.680098G	3.660898G	3.699298G	26.495	3.65G,3.7G,Inf	1	-



Frequency Stability Result

Appendix F

Result

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
Band 43_10MHz_QPSK_2TX	-	-	-	-	-	-	-	-	-
3655MHz_-30°C	Pass	3.655G	3.655018G	3.650316G	3.659719G	4.873	3.65G,3.7G,Inf	1	-
3655MHz_-20°C	Pass	3.655G	3.655021G	3.650316G	3.659725G	5.643	3.65G,3.7G,Inf	1	-
3655MHz_-10°C	Pass	3.655G	3.655018G	3.650314G	3.659721G	4.873	3.65G,3.7G,Inf	1	-
3655MHz_0°C	Pass	3.655G	3.655019G	3.650316G	3.659721G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_10°C	Pass	3.655G	3.65502G	3.650313G	3.659727G	5.386	3.65G,3.7G,Inf	1	-
3655MHz_20°C	Pass	3.655G	3.655015G	3.650313G	3.659718G	4.104	3.65G,3.7G,Inf	1	-
3655MHz_30°C	Pass	3.655G	3.655023G	3.65032G	3.659725G	6.156	3.65G,3.7G,Inf	1	-
3655MHz_40°C	Pass	3.655G	3.655017G	3.650314G	3.659719G	4.617	3.65G,3.7G,Inf	1	-
3655MHz_50°C	Pass	3.655G	3.655021G	3.65032G	3.659721G	5.643	3.65G,3.7G,Inf	1	-
3655MHz_126.5V	Pass	3.655G	3.65502G	3.650316G	3.659723G	5.386	3.65G,3.7G,Inf	1	-
3655MHz_110V	Pass	3.655G	3.655019G	3.650313G	3.659725G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_93.5V	Pass	3.655G	3.655015G	3.650313G	3.659718G	4.104	3.65G,3.7G,Inf	1	-
3695MHz_-30°C	Pass	3.695G	3.695017G	3.690316G	3.699718G	4.567	3.65G,3.7G,Inf	1	-
3695MHz_-20°C	Pass	3.695G	3.69502G	3.69032G	3.699719G	5.328	3.65G,3.7G,Inf	1	-
3695MHz_-10°C	Pass	3.695G	3.695017G	3.690314G	3.699719G	4.567	3.65G,3.7G,Inf	1	-
3695MHz_0°C	Pass	3.695G	3.695019G	3.690316G	3.699721G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_10°C	Pass	3.695G	3.695021G	3.690322G	3.699719G	5.582	3.65G,3.7G,Inf	1	-
3695MHz_20°C	Pass	3.695G	3.695015G	3.690311G	3.699719G	4.06	3.65G,3.7G,Inf	1	-
3695MHz_30°C	Pass	3.695G	3.695018G	3.690316G	3.699719G	4.821	3.65G,3.7G,Inf	1	-
3695MHz_40°C	Pass	3.695G	3.69502G	3.69032G	3.699719G	5.328	3.65G,3.7G,Inf	1	-
3695MHz_50°C	Pass	3.695G	3.69502G	3.69032G	3.699719G	5.328	3.65G,3.7G,Inf	1	-
3695MHz_126.5V	Pass	3.695G	3.695019G	3.690324G	3.699714G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_110V	Pass	3.695G	3.695022G	3.690326G	3.699718G	5.836	3.65G,3.7G,Inf	1	-
3695MHz_93.5V	Pass	3.695G	3.695021G	3.690324G	3.699718G	5.582	3.65G,3.7G,Inf	1	-
Band 43_10MHz_16QAM_2TX	-	-	-	-	-	-	-	-	-
3655MHz_-30°C	Pass	3.655G	3.655023G	3.650322G	3.659725G	6.412	3.65G,3.7G,Inf	1	-
3655MHz_-20°C	Pass	3.655G	3.655021G	3.650318G	3.659723G	5.643	3.65G,3.7G,Inf	1	-
3655MHz_-10°C	Pass	3.655G	3.655016G	3.650314G	3.659718G	4.36	3.65G,3.7G,Inf	1	-
3655MHz_0°C	Pass	3.655G	3.655016G	3.650316G	3.659716G	4.36	3.65G,3.7G,Inf	1	-
3655MHz_10°C	Pass	3.655G	3.655019G	3.650313G	3.659725G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_20°C	Pass	3.655G	3.655015G	3.650307G	3.659723G	4.104	3.65G,3.7G,Inf	1	-
3655MHz_30°C	Pass	3.655G	3.655016G	3.650311G	3.659721G	4.36	3.65G,3.7G,Inf	1	-
3655MHz_40°C	Pass	3.655G	3.655018G	3.650314G	3.659721G	4.873	3.65G,3.7G,Inf	1	-
3655MHz_50°C	Pass	3.655G	3.655018G	3.650313G	3.659723G	4.873	3.65G,3.7G,Inf	1	-
3655MHz_126.5V	Pass	3.655G	3.655019G	3.650316G	3.659721G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_110V	Pass	3.655G	3.655015G	3.650309G	3.659721G	4.104	3.65G,3.7G,Inf	1	-
3655MHz_93.5V	Pass	3.655G	3.655013G	3.650307G	3.659719G	3.591	3.65G,3.7G,Inf	1	-



Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
3695MHz_-30°C	Pass	3.695G	3.695019G	3.690316G	3.699721G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_-20°C	Pass	3.695G	3.695014G	3.690309G	3.699719G	3.806	3.65G,3.7G,Inf	1	-
3695MHz_-10°C	Pass	3.695G	3.695018G	3.69032G	3.699716G	4.821	3.65G,3.7G,Inf	1	-
3695MHz_0°C	Pass	3.695G	3.69502G	3.69032G	3.699719G	5.328	3.65G,3.7G,Inf	1	-
3695MHz_10°C	Pass	3.695G	3.695017G	3.690318G	3.699716G	4.567	3.65G,3.7G,Inf	1	-
3695MHz_20°C	Pass	3.695G	3.695019G	3.690316G	3.699721G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_30°C	Pass	3.695G	3.69502G	3.690322G	3.699718G	5.328	3.65G,3.7G,Inf	1	-
3695MHz_40°C	Pass	3.695G	3.695019G	3.690318G	3.699719G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_50°C	Pass	3.695G	3.695019G	3.690326G	3.699712G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_126.5V	Pass	3.695G	3.69502G	3.690318G	3.699721G	5.328	3.65G,3.7G,Inf	1	-
3695MHz_110V	Pass	3.695G	3.69502G	3.690322G	3.699718G	5.328	3.65G,3.7G,Inf	1	-
3695MHz_93.5V	Pass	3.695G	3.695021G	3.690318G	3.699723G	5.582	3.65G,3.7G,Inf	1	-
Band 43_10MHz_64QAM_2TX	-	-	-	-	-	-	-	-	-
3655MHz_-30°C	Pass	3.655G	3.655019G	3.650314G	3.659723G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_-20°C	Pass	3.655G	3.655019G	3.650316G	3.659721G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_-10°C	Pass	3.655G	3.655019G	3.650314G	3.659723G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_0°C	Pass	3.655G	3.655015G	3.650309G	3.659721G	4.104	3.65G,3.7G,Inf	1	-
3655MHz_10°C	Pass	3.655G	3.655017G	3.650309G	3.659725G	4.617	3.65G,3.7G,Inf	1	-
3655MHz_20°C	Pass	3.655G	3.65502G	3.65032G	3.659719G	5.386	3.65G,3.7G,Inf	1	-
3655MHz_30°C	Pass	3.655G	3.655016G	3.650307G	3.659725G	4.36	3.65G,3.7G,Inf	1	-
3655MHz_40°C	Pass	3.655G	3.655021G	3.650318G	3.659723G	5.643	3.65G,3.7G,Inf	1	-
3655MHz_50°C	Pass	3.655G	3.65502G	3.650316G	3.659723G	5.386	3.65G,3.7G,Inf	1	-
3655MHz_126.5V	Pass	3.655G	3.655018G	3.650313G	3.659723G	4.873	3.65G,3.7G,Inf	1	-
3655MHz_110V	Pass	3.655G	3.65502G	3.650318G	3.659721G	5.386	3.65G,3.7G,Inf	1	-
3655MHz_93.5V	Pass	3.655G	3.655021G	3.650318G	3.659723G	5.643	3.65G,3.7G,Inf	1	-
3695MHz_-30°C	Pass	3.695G	3.695023G	3.690322G	3.699723G	6.089	3.65G,3.7G,Inf	1	-
3695MHz_-20°C	Pass	3.695G	3.695015G	3.690313G	3.699718G	4.06	3.65G,3.7G,Inf	1	-
3695MHz_-10°C	Pass	3.695G	3.695017G	3.690316G	3.699718G	4.567	3.65G,3.7G,Inf	1	-
3695MHz_0°C	Pass	3.695G	3.695017G	3.690316G	3.699718G	4.567	3.65G,3.7G,Inf	1	-
3695MHz_10°C	Pass	3.695G	3.695019G	3.690318G	3.699719G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_20°C	Pass	3.695G	3.695016G	3.690313G	3.699719G	4.313	3.65G,3.7G,Inf	1	-
3695MHz_30°C	Pass	3.695G	3.695023G	3.690328G	3.699719G	6.343	3.65G,3.7G,Inf	1	-
3695MHz_40°C	Pass	3.695G	3.695015G	3.690309G	3.699721G	4.06	3.65G,3.7G,Inf	1	-
3695MHz_50°C	Pass	3.695G	3.695019G	3.690318G	3.699719G	5.074	3.65G,3.7G,Inf	1	-
3695MHz_126.5V	Pass	3.695G	3.695017G	3.690316G	3.699718G	4.567	3.65G,3.7G,Inf	1	-
3695MHz_110V	Pass	3.695G	3.695011G	3.690305G	3.699718G	3.045	3.65G,3.7G,Inf	1	-
3695MHz_93.5V	Pass	3.695G	3.69502G	3.69032G	3.699719G	5.328	3.65G,3.7G,Inf	1	-
Band 43_10MHz_256QAM_2TX	-	-	-	-	-	-	-	-	-



Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
3655MHz_-30°C	Pass	3.655G	3.655015G	3.650311G	3.659719G	4.104	3.65G,3.7G,Inf	1	-
3655MHz_-20°C	Pass	3.655G	3.655017G	3.650313G	3.659721G	4.617	3.65G,3.7G,Inf	1	-
3655MHz_-10°C	Pass	3.655G	3.655018G	3.650318G	3.659718G	4.873	3.65G,3.7G,Inf	1	-
3655MHz_0°C	Pass	3.655G	3.655019G	3.650318G	3.659719G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_10°C	Pass	3.655G	3.655022G	3.65032G	3.659723G	5.899	3.65G,3.7G,Inf	1	-
3655MHz_20°C	Pass	3.655G	3.655019G	3.650316G	3.659721G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_30°C	Pass	3.655G	3.655019G	3.650313G	3.659725G	5.13	3.65G,3.7G,Inf	1	-
3655MHz_40°C	Pass	3.655G	3.655015G	3.650307G	3.659723G	4.104	3.65G,3.7G,Inf	1	-
3655MHz_50°C	Pass	3.655G	3.655017G	3.650313G	3.659721G	4.617	3.65G,3.7G,Inf	1	-
3655MHz_126.5V	Pass	3.655G	3.655018G	3.650309G	3.659727G	4.873	3.65G,3.7G,Inf	1	-
3655MHz_110V	Pass	3.655G	3.65502G	3.650318G	3.659721G	5.386	3.65G,3.7G,Inf	1	-
3655MHz_93.5V	Pass	3.655G	3.655017G	3.650311G	3.659723G	4.617	3.65G,3.7G,Inf	1	-
3695MHz_-30°C	Pass	3.695G	3.695017G	3.690316G	3.699718G	4.567	3.65G,3.7G,Inf	1	-
3695MHz_-20°C	Pass	3.695G	3.695018G	3.690318G	3.699718G	4.821	3.65G,3.7G,Inf	1	-
3695MHz_-10°C	Pass	3.695G	3.695023G	3.690326G	3.699719G	6.089	3.65G,3.7G,Inf	1	-
3695MHz_0°C	Pass	3.695G	3.695015G	3.690316G	3.699714G	4.06	3.65G,3.7G,Inf	1	-
3695MHz_10°C	Pass	3.695G	3.695018G	3.690316G	3.699719G	4.821	3.65G,3.7G,Inf	1	-
3695MHz_20°C	Pass	3.695G	3.695022G	3.690324G	3.699719G	5.836	3.65G,3.7G,Inf	1	-
3695MHz_30°C	Pass	3.695G	3.695023G	3.690326G	3.699719G	6.089	3.65G,3.7G,Inf	1	-
3695MHz_40°C	Pass	3.695G	3.695023G	3.690326G	3.699719G	6.089	3.65G,3.7G,Inf	1	-
3695MHz_50°C	Pass	3.695G	3.695023G	3.690324G	3.699721G	6.089	3.65G,3.7G,Inf	1	-
3695MHz_126.5V	Pass	3.695G	3.695018G	3.690316G	3.699719G	4.821	3.65G,3.7G,Inf	1	-
3695MHz_110V	Pass	3.695G	3.695024G	3.690328G	3.699721G	6.597	3.65G,3.7G,Inf	1	-
3695MHz_93.5V	Pass	3.695G	3.69502G	3.69032G	3.699719G	5.328	3.65G,3.7G,Inf	1	-
Band 43_40MHz_QPSK_2TX	-	-	-	-	-	-	-	-	-
3670MHz_-30°C	Pass	3.67G	3.670098G	3.65092G	3.689275G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_-20°C	Pass	3.67G	3.670116G	3.65095G	3.689283G	31.676	3.65G,3.7G,Inf	1	-
3670MHz_-10°C	Pass	3.67G	3.670094G	3.650905G	3.689283G	25.545	3.65G,3.7G,Inf	1	-
3670MHz_0°C	Pass	3.67G	3.67009G	3.650898G	3.689283G	24.523	3.65G,3.7G,Inf	1	-
3670MHz_10°C	Pass	3.67G	3.67009G	3.650913G	3.689268G	24.523	3.65G,3.7G,Inf	1	-
3670MHz_20°C	Pass	3.67G	3.670098G	3.65095G	3.689245G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_30°C	Pass	3.67G	3.670098G	3.65092G	3.689275G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_40°C	Pass	3.67G	3.670105G	3.65092G	3.68929G	28.61	3.65G,3.7G,Inf	1	-
3670MHz_50°C	Pass	3.67G	3.670105G	3.650935G	3.689275G	28.61	3.65G,3.7G,Inf	1	-
3670MHz_126.5V	Pass	3.67G	3.670101G	3.650913G	3.68929G	27.589	3.65G,3.7G,Inf	1	-
3670MHz_110V	Pass	3.67G	3.670098G	3.650928G	3.689268G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_93.5V	Pass	3.67G	3.670094G	3.65092G	3.689268G	25.545	3.65G,3.7G,Inf	1	-
3680MHz_-30°C	Pass	3.68G	3.680113G	3.660958G	3.699268G	30.571	3.65G,3.7G,Inf	1	-



Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
3680MHz_-20°C	Pass	3.68G	3.68009G	3.660913G	3.699268G	24.457	3.65G,3.7G,Inf	1	-
3680MHz_-10°C	Pass	3.68G	3.680131G	3.660988G	3.699275G	35.666	3.65G,3.7G,Inf	1	-
3680MHz_0°C	Pass	3.68G	3.680101G	3.660935G	3.699268G	27.514	3.65G,3.7G,Inf	1	-
3680MHz_10°C	Pass	3.68G	3.680071G	3.660913G	3.69923G	19.361	3.65G,3.7G,Inf	1	-
3680MHz_20°C	Pass	3.68G	3.68009G	3.66092G	3.69926G	24.457	3.65G,3.7G,Inf	1	-
3680MHz_30°C	Pass	3.68G	3.680109G	3.660943G	3.699275G	29.552	3.65G,3.7G,Inf	1	-
3680MHz_40°C	Pass	3.68G	3.680101G	3.660928G	3.699275G	27.514	3.65G,3.7G,Inf	1	-
3680MHz_50°C	Pass	3.68G	3.68009G	3.66089G	3.69929G	24.457	3.65G,3.7G,Inf	1	-
3680MHz_126.5V	Pass	3.68G	3.680094G	3.66092G	3.699268G	25.476	3.65G,3.7G,Inf	1	-
3680MHz_110V	Pass	3.68G	3.680109G	3.66095G	3.699268G	29.552	3.65G,3.7G,Inf	1	-
3680MHz_93.5V	Pass	3.68G	3.68009G	3.660905G	3.699275G	24.457	3.65G,3.7G,Inf	1	-
Band 43_40MHz_16QAM_2TX	-	-	-	-	-	-	-	-	-
3670MHz_-30°C	Pass	3.67G	3.670105G	3.650928G	3.689283G	28.61	3.65G,3.7G,Inf	1	-
3670MHz_-20°C	Pass	3.67G	3.670113G	3.650935G	3.68929G	30.654	3.65G,3.7G,Inf	1	-
3670MHz_-10°C	Pass	3.67G	3.670083G	3.650913G	3.689253G	22.48	3.65G,3.7G,Inf	1	-
3670MHz_0°C	Pass	3.67G	3.670098G	3.65092G	3.689275G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_10°C	Pass	3.67G	3.670098G	3.650913G	3.689283G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_20°C	Pass	3.67G	3.670075G	3.650905G	3.689245G	20.436	3.65G,3.7G,Inf	1	-
3670MHz_30°C	Pass	3.67G	3.670098G	3.650928G	3.689268G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_40°C	Pass	3.67G	3.670109G	3.650935G	3.689283G	29.632	3.65G,3.7G,Inf	1	-
3670MHz_50°C	Pass	3.67G	3.670124G	3.650973G	3.689275G	33.719	3.65G,3.7G,Inf	1	-
3670MHz_126.5V	Pass	3.67G	3.670101G	3.650928G	3.689275G	27.589	3.65G,3.7G,Inf	1	-
3670MHz_110V	Pass	3.67G	3.670083G	3.650913G	3.689253G	22.48	3.65G,3.7G,Inf	1	-
3670MHz_93.5V	Pass	3.67G	3.670098G	3.65092G	3.689275G	26.567	3.65G,3.7G,Inf	1	-
3680MHz_-30°C	Pass	3.68G	3.680105G	3.660935G	3.699275G	28.533	3.65G,3.7G,Inf	1	-
3680MHz_-20°C	Pass	3.68G	3.680098G	3.660935G	3.69926G	26.495	3.65G,3.7G,Inf	1	-
3680MHz_-10°C	Pass	3.68G	3.680083G	3.660905G	3.69926G	22.418	3.65G,3.7G,Inf	1	-
3680MHz_0°C	Pass	3.68G	3.68009G	3.660913G	3.699268G	24.457	3.65G,3.7G,Inf	1	-
3680MHz_10°C	Pass	3.68G	3.680098G	3.660898G	3.699298G	26.495	3.65G,3.7G,Inf	1	-
3680MHz_20°C	Pass	3.68G	3.68009G	3.660905G	3.699275G	24.457	3.65G,3.7G,Inf	1	-
3680MHz_30°C	Pass	3.68G	3.680113G	3.660935G	3.69929G	30.571	3.65G,3.7G,Inf	1	-
3680MHz_40°C	Pass	3.68G	3.680098G	3.660905G	3.69929G	26.495	3.65G,3.7G,Inf	1	-
3680MHz_50°C	Pass	3.68G	3.680101G	3.66092G	3.699283G	27.514	3.65G,3.7G,Inf	1	-
3680MHz_126.5V	Pass	3.68G	3.680083G	3.66092G	3.699245G	22.418	3.65G,3.7G,Inf	1	-
3680MHz_110V	Pass	3.68G	3.680101G	3.66092G	3.699283G	27.514	3.65G,3.7G,Inf	1	-
3680MHz_93.5V	Pass	3.68G	3.68009G	3.66092G	3.69926G	24.457	3.65G,3.7G,Inf	1	-
Band 43_40MHz_64QAM_2TX	-	-	-	-	-	-	-	-	-
3670MHz_-30°C	Pass	3.67G	3.670075G	3.650913G	3.689238G	20.436	3.65G,3.7G,Inf	1	-



Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
3670MHz_-20°C	Pass	3.67G	3.670105G	3.650928G	3.689283G	28.61	3.65G,3.7G,Inf	1	-
3670MHz_-10°C	Pass	3.67G	3.670116G	3.65095G	3.689283G	31.676	3.65G,3.7G,Inf	1	-
3670MHz_0°C	Pass	3.67G	3.670109G	3.650965G	3.689253G	29.632	3.65G,3.7G,Inf	1	-
3670MHz_10°C	Pass	3.67G	3.670068G	3.650913G	3.689223G	18.392	3.65G,3.7G,Inf	1	-
3670MHz_20°C	Pass	3.67G	3.670086G	3.650928G	3.689245G	23.501	3.65G,3.7G,Inf	1	-
3670MHz_30°C	Pass	3.67G	3.670086G	3.650898G	3.689275G	23.501	3.65G,3.7G,Inf	1	-
3670MHz_40°C	Pass	3.67G	3.670101G	3.65092G	3.689283G	27.589	3.65G,3.7G,Inf	1	-
3670MHz_50°C	Pass	3.67G	3.670098G	3.650913G	3.689283G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_126.5V	Pass	3.67G	3.670094G	3.65092G	3.689268G	25.545	3.65G,3.7G,Inf	1	-
3670MHz_110V	Pass	3.67G	3.670101G	3.650928G	3.689275G	27.589	3.65G,3.7G,Inf	1	-
3670MHz_93.5V	Pass	3.67G	3.670083G	3.650905G	3.68926G	22.48	3.65G,3.7G,Inf	1	-
3680MHz_-30°C	Pass	3.68G	3.680094G	3.660905G	3.699283G	25.476	3.65G,3.7G,Inf	1	-
3680MHz_-20°C	Pass	3.68G	3.680086G	3.66092G	3.699253G	23.437	3.65G,3.7G,Inf	1	-
3680MHz_-10°C	Pass	3.68G	3.680083G	3.660875G	3.69929G	22.418	3.65G,3.7G,Inf	1	-
3680MHz_0°C	Pass	3.68G	3.680094G	3.660905G	3.699283G	25.476	3.65G,3.7G,Inf	1	-
3680MHz_10°C	Pass	3.68G	3.680098G	3.66092G	3.699275G	26.495	3.65G,3.7G,Inf	1	-
3680MHz_20°C	Pass	3.68G	3.680109G	3.660943G	3.699275G	29.552	3.65G,3.7G,Inf	1	-
3680MHz_30°C	Pass	3.68G	3.68006G	3.660905G	3.699215G	16.304	3.65G,3.7G,Inf	1	-
3680MHz_40°C	Pass	3.68G	3.680105G	3.660943G	3.699268G	28.533	3.65G,3.7G,Inf	1	-
3680MHz_50°C	Pass	3.68G	3.68012G	3.66095G	3.69929G	32.609	3.65G,3.7G,Inf	1	-
3680MHz_126.5V	Pass	3.68G	3.680105G	3.660913G	3.699298G	28.533	3.65G,3.7G,Inf	1	-
3680MHz_110V	Pass	3.68G	3.68012G	3.660965G	3.699275G	32.609	3.65G,3.7G,Inf	1	-
3680MHz_93.5V	Pass	3.68G	3.680098G	3.660898G	3.699298G	26.495	3.65G,3.7G,Inf	1	-
Band 43_40MHz_256QAM_2TX	-	-	-	-	-	-	-	-	-
3670MHz_-30°C	Pass	3.67G	3.670094G	3.650905G	3.689283G	25.545	3.65G,3.7G,Inf	1	-
3670MHz_-20°C	Pass	3.67G	3.670101G	3.650935G	3.689268G	27.589	3.65G,3.7G,Inf	1	-
3670MHz_-10°C	Pass	3.67G	3.670094G	3.650935G	3.689253G	25.545	3.65G,3.7G,Inf	1	-
3670MHz_0°C	Pass	3.67G	3.670079G	3.650913G	3.689245G	21.458	3.65G,3.7G,Inf	1	-
3670MHz_10°C	Pass	3.67G	3.670128G	3.650958G	3.689298G	34.741	3.65G,3.7G,Inf	1	-
3670MHz_20°C	Pass	3.67G	3.670101G	3.650913G	3.68929G	27.589	3.65G,3.7G,Inf	1	-
3670MHz_30°C	Pass	3.67G	3.670098G	3.65092G	3.689275G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_40°C	Pass	3.67G	3.670079G	3.650905G	3.689253G	21.458	3.65G,3.7G,Inf	1	-
3670MHz_50°C	Pass	3.67G	3.670116G	3.65095G	3.689283G	31.676	3.65G,3.7G,Inf	1	-
3670MHz_126.5V	Pass	3.67G	3.670098G	3.65092G	3.689275G	26.567	3.65G,3.7G,Inf	1	-
3670MHz_110V	Pass	3.67G	3.670113G	3.650935G	3.68929G	30.654	3.65G,3.7G,Inf	1	-
3670MHz_93.5V	Pass	3.67G	3.670116G	3.650943G	3.68929G	31.676	3.65G,3.7G,Inf	1	-
3680MHz_-30°C	Pass	3.68G	3.680098G	3.660898G	3.699298G	26.495	3.65G,3.7G,Inf	1	-
3680MHz_-20°C	Pass	3.68G	3.680094G	3.660928G	3.69926G	25.476	3.65G,3.7G,Inf	1	-



Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	Fl (Hz)	Fh (Hz)	ppm	Limit (Fl,Fh,ppm)	Port	Remark
3680MHz_-10°C	Pass	3.68G	3.680094G	3.660928G	3.69926G	25.476	3.65G,3.7G,Inf	1	-
3680MHz_0°C	Pass	3.68G	3.680094G	3.660913G	3.699275G	25.476	3.65G,3.7G,Inf	1	-
3680MHz_10°C	Pass	3.68G	3.68009G	3.660905G	3.699275G	24.457	3.65G,3.7G,Inf	1	-
3680MHz_20°C	Pass	3.68G	3.680105G	3.660928G	3.699283G	28.533	3.65G,3.7G,Inf	1	-
3680MHz_30°C	Pass	3.68G	3.68009G	3.66089G	3.69929G	24.457	3.65G,3.7G,Inf	1	-
3680MHz_40°C	Pass	3.68G	3.680086G	3.660898G	3.699275G	23.437	3.65G,3.7G,Inf	1	-
3680MHz_50°C	Pass	3.68G	3.680109G	3.660958G	3.69926G	29.552	3.65G,3.7G,Inf	1	-
3680MHz_126.5V	Pass	3.68G	3.680094G	3.660913G	3.699275G	25.476	3.65G,3.7G,Inf	1	-
3680MHz_110V	Pass	3.68G	3.680105G	3.660935G	3.699275G	28.533	3.65G,3.7G,Inf	1	-
3680MHz_93.5V	Pass	3.68G	3.680094G	3.660943G	3.699245G	25.476	3.65G,3.7G,Inf	1	-