



Product Service

FCC ID:
VBNFZHJ-01

Test Report No:
D509925016

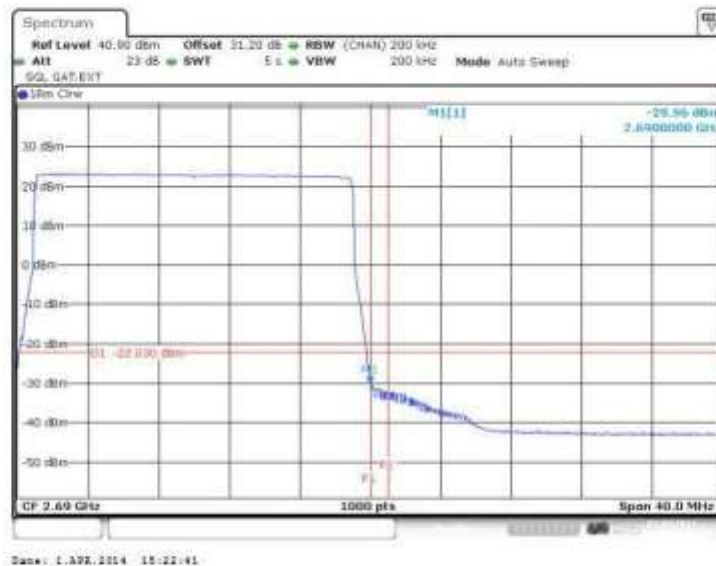


Figure 36 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz) (20MHz Channel BW)

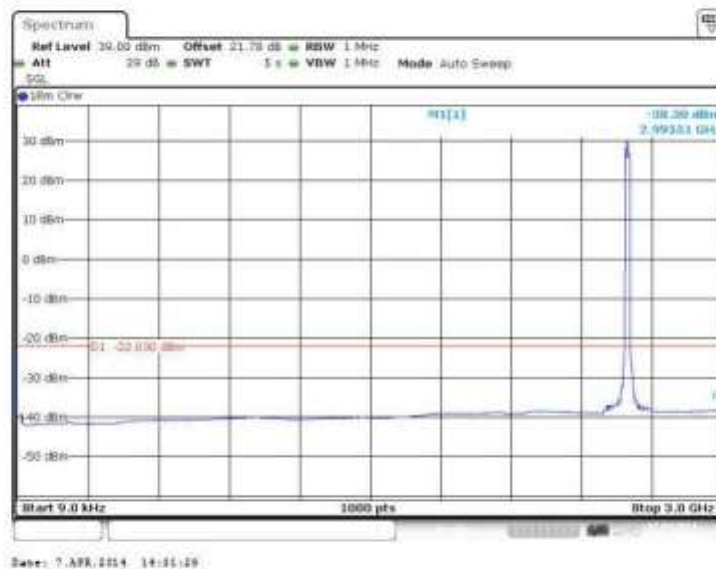


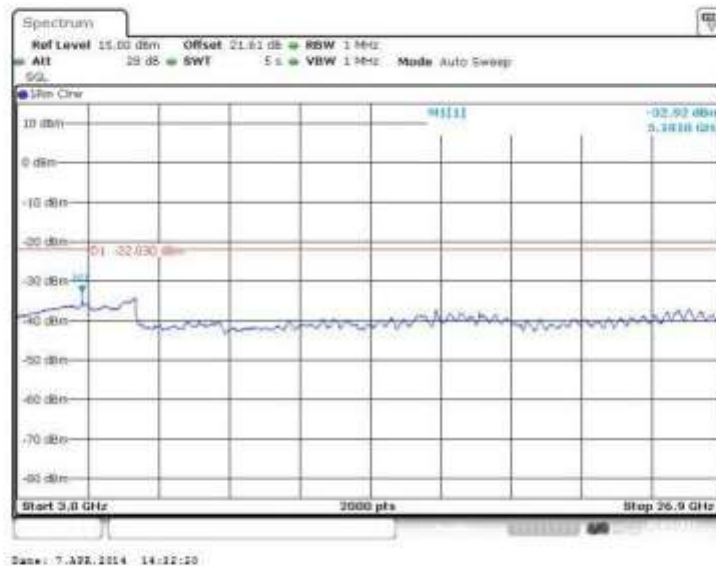
Figure 37 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)



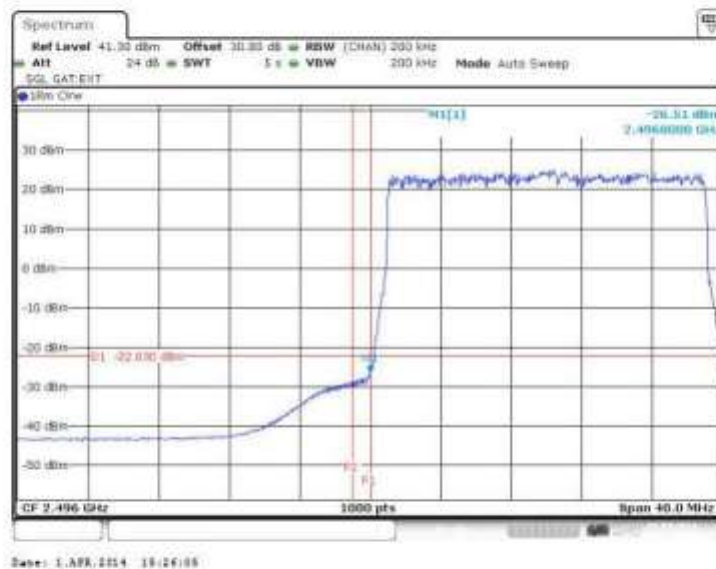
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**Figure 38 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(20MHz Channel BW)**



**Figure 39 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz)
(20MHz Channel BW)**



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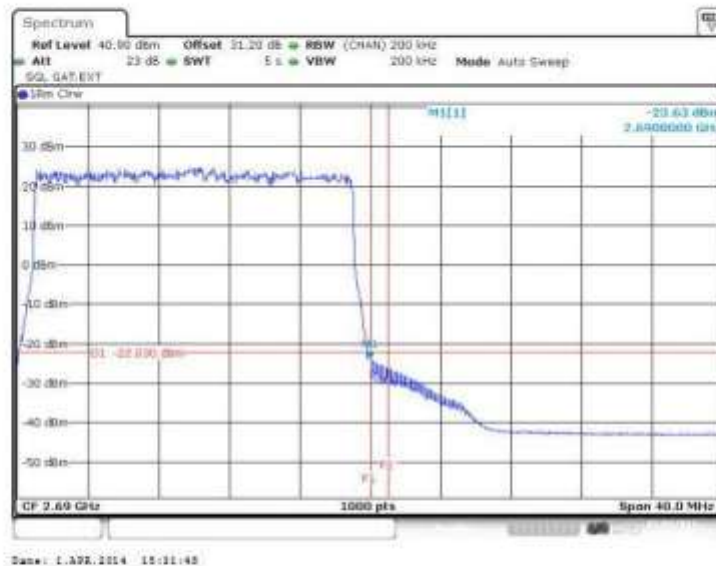


Figure 40 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)

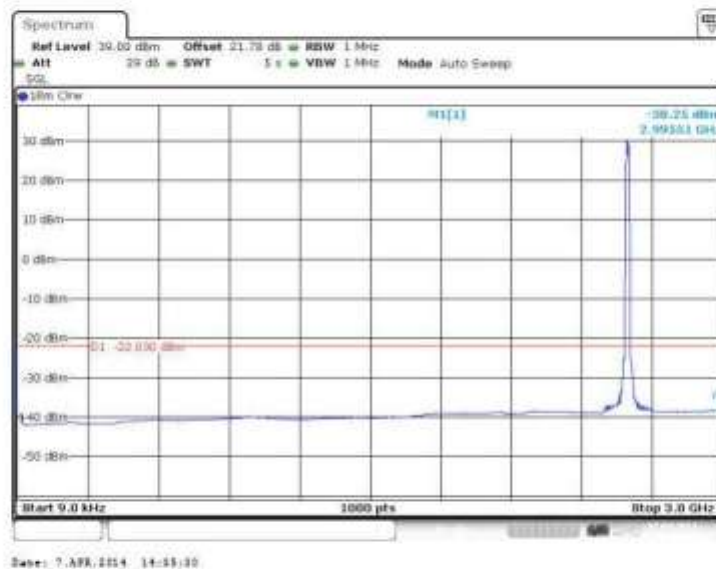


Figure 41 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



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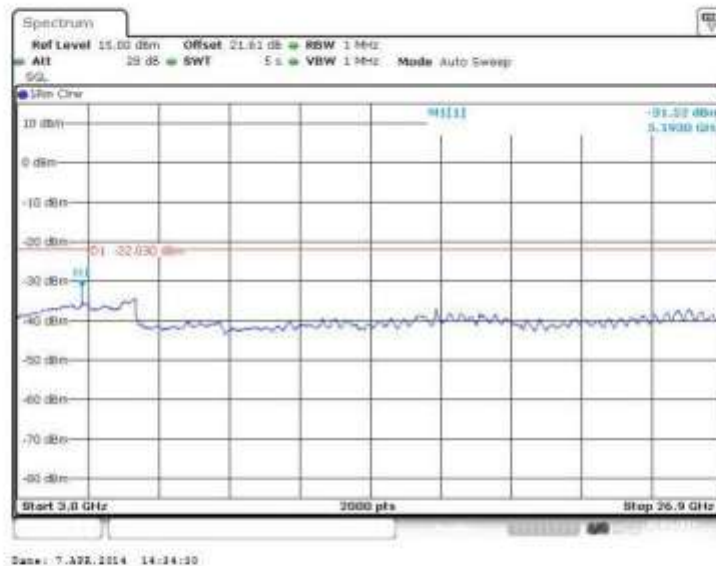


Figure 42 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



Figure 43 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz) (20MHz Channel BW)



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Figure 44 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)

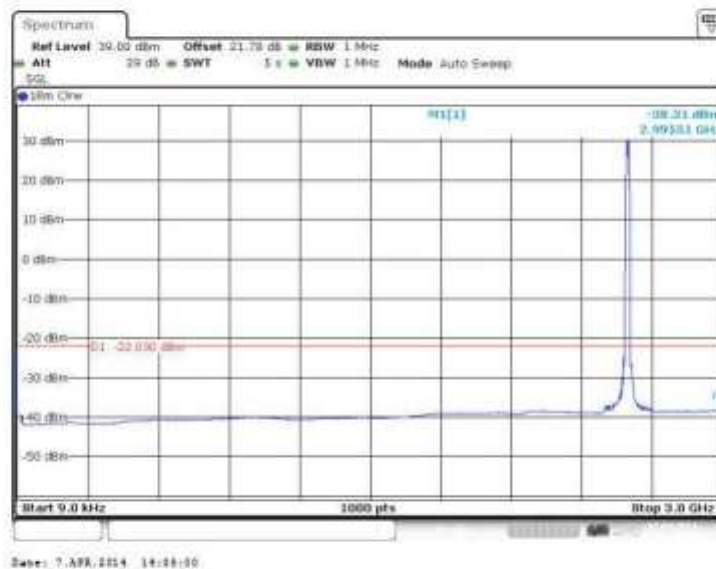


Figure 45 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



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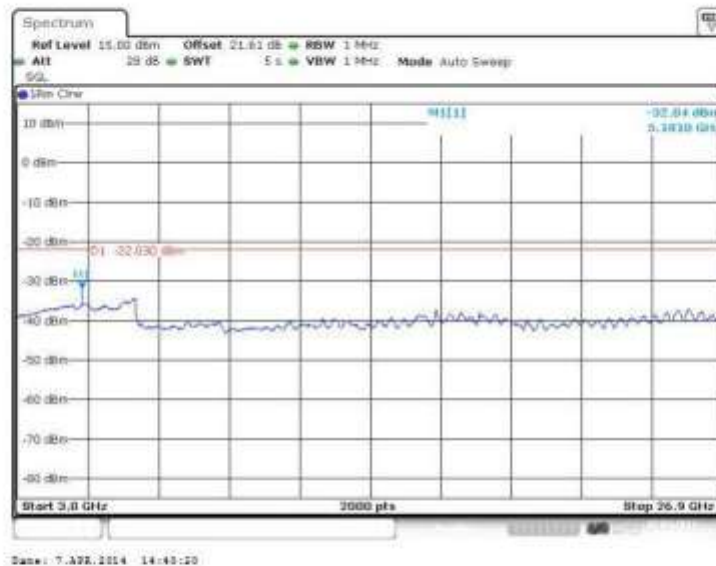


Figure 46 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)

Config A ANT2:

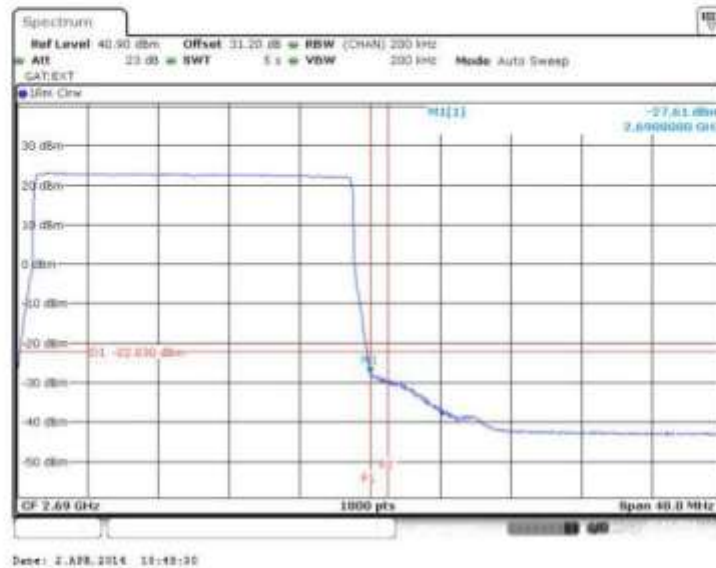




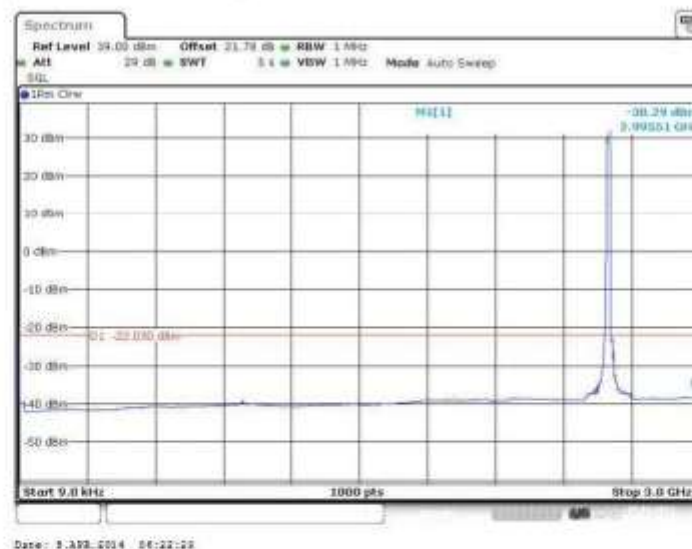
Product Service

FCC ID:
VBNFZHJ-01Test Report No:
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**Figure 47 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz)
(20MHz Channel BW)**



**Figure 48 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz)
(20MHz Channel BW)**



**Figure 49 Spurious Emissions (9kHz – 3GHz) - QPSK (2593.0 MHz) (20MHz
Channel BW)**

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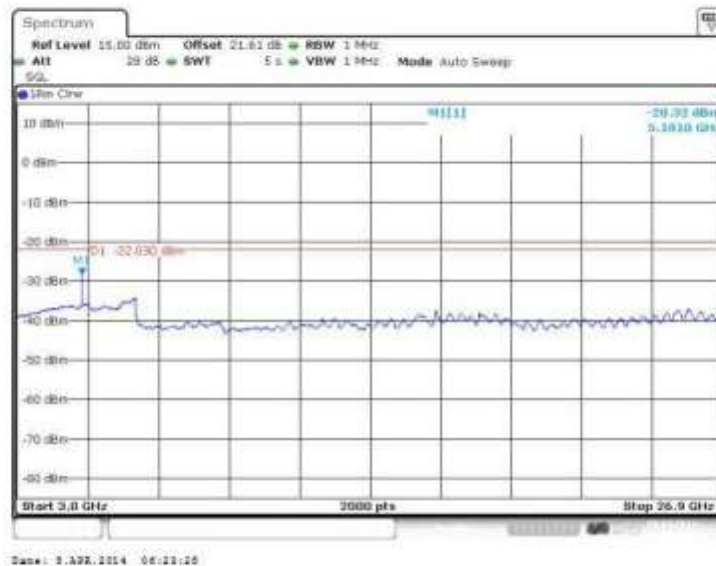


Figure 50 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)

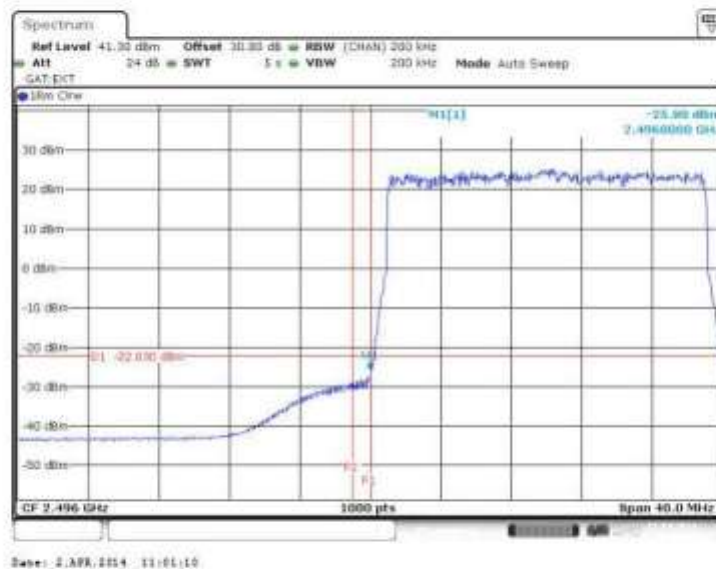


Figure 51 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz) (20MHz Channel BW)



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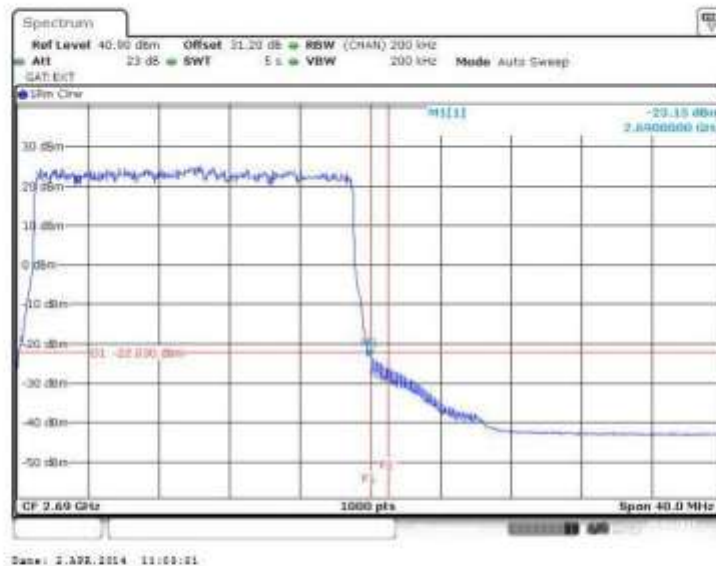


Figure 52 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)

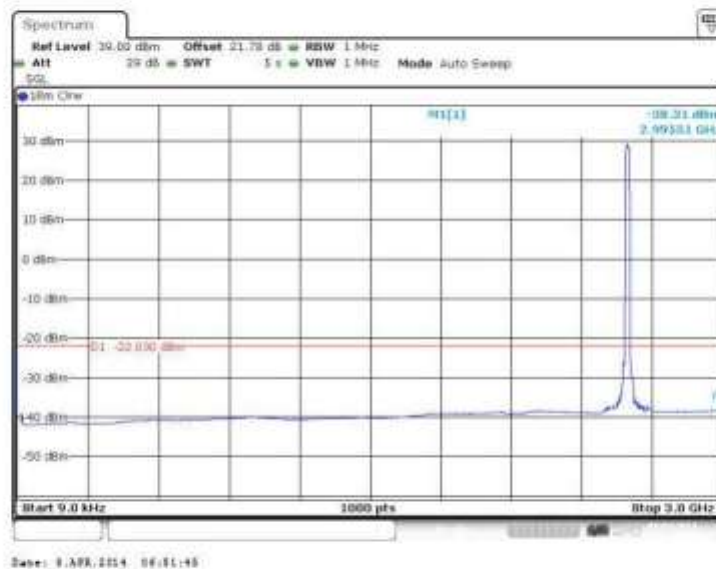


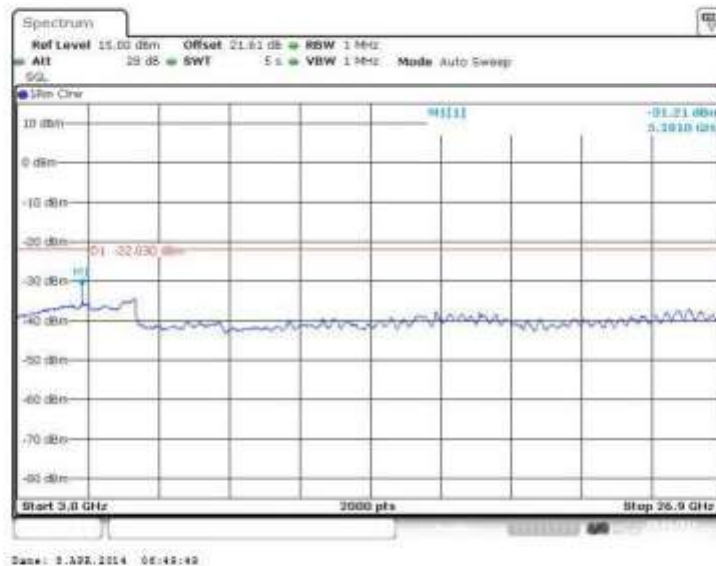
Figure 53 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



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**Figure 54 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz)
(20MHz Channel BW)**



**Figure 55 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz)
(20MHz Channel BW)**



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Figure 56 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)

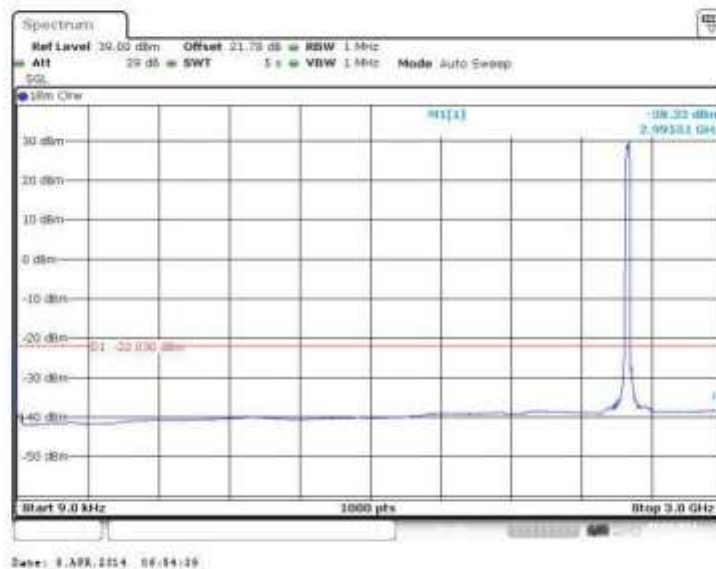


Figure 57 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



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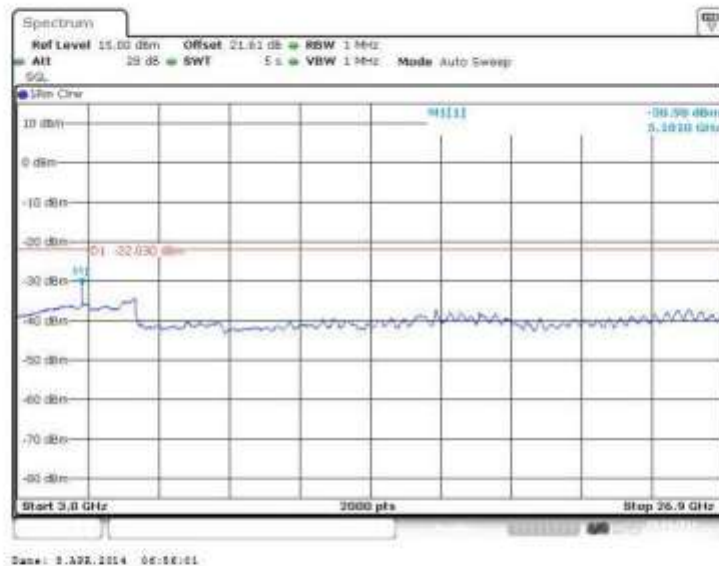
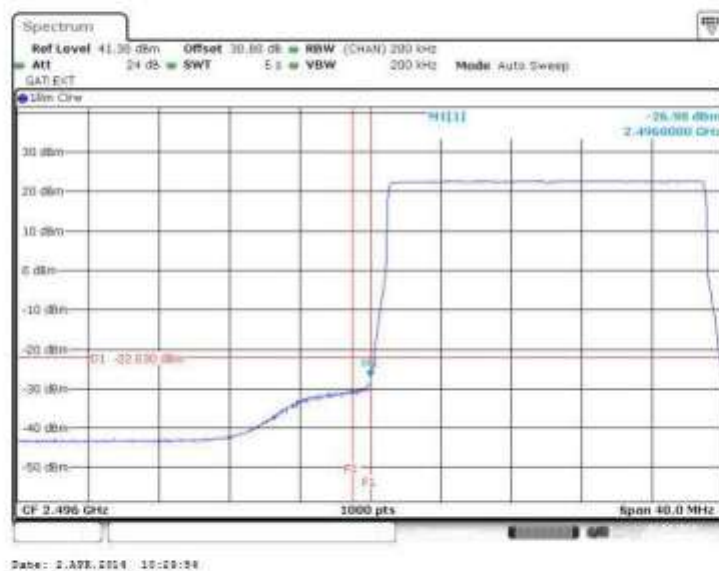


Figure 58 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)

Config A ANT3:



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Product Service

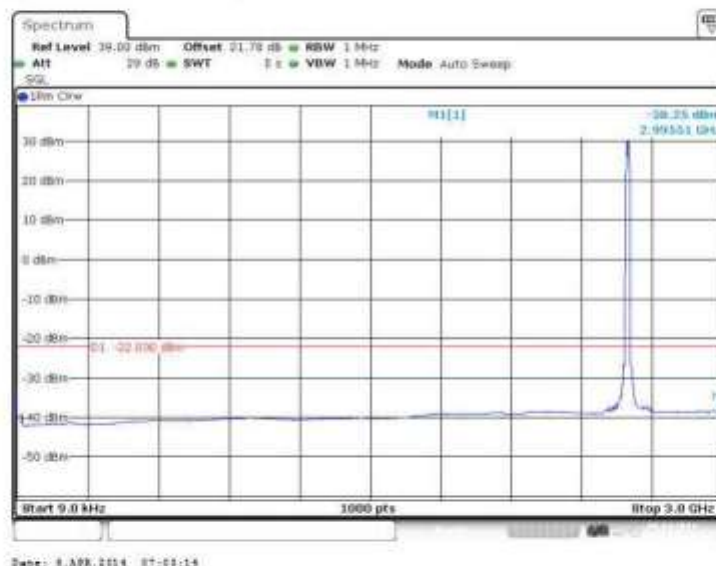
FCC ID:
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**Figure 59 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz)
(20MHz Channel BW)**



**Figure 60 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz)
(20MHz Channel BW)**



**Figure 61 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (20MHz
Channel BW)**

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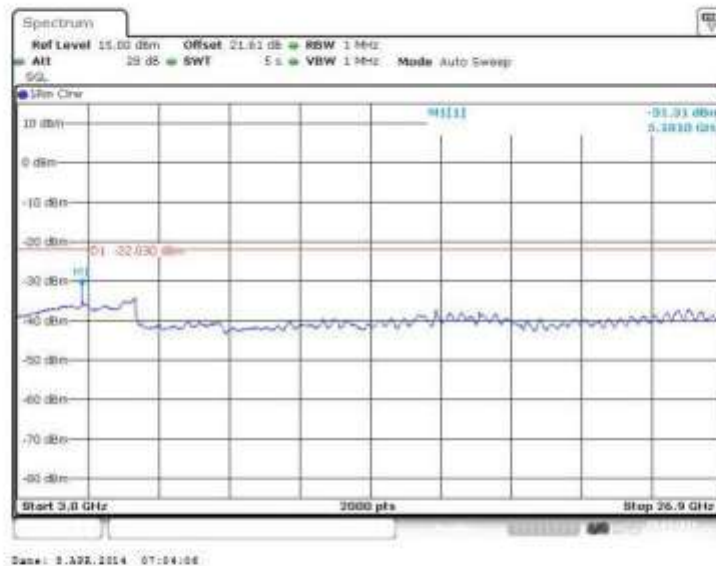
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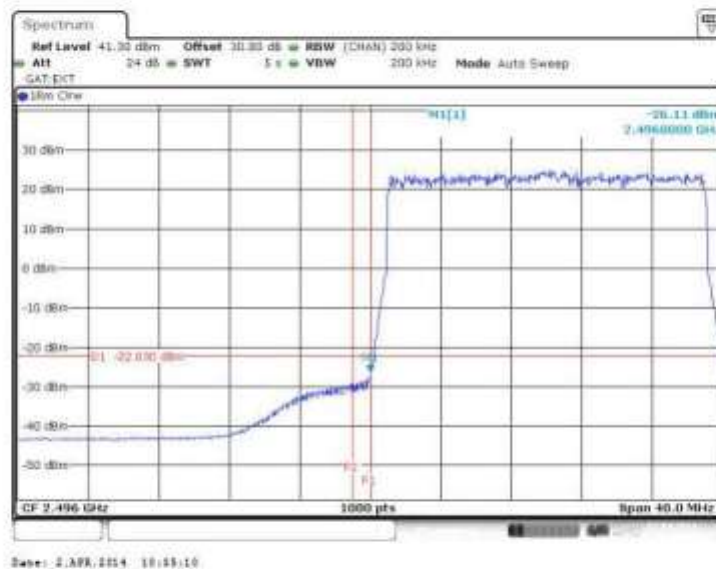
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**Figure 62 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(20MHz Channel BW)**



**Figure 63 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz)
(20MHz Channel BW)**



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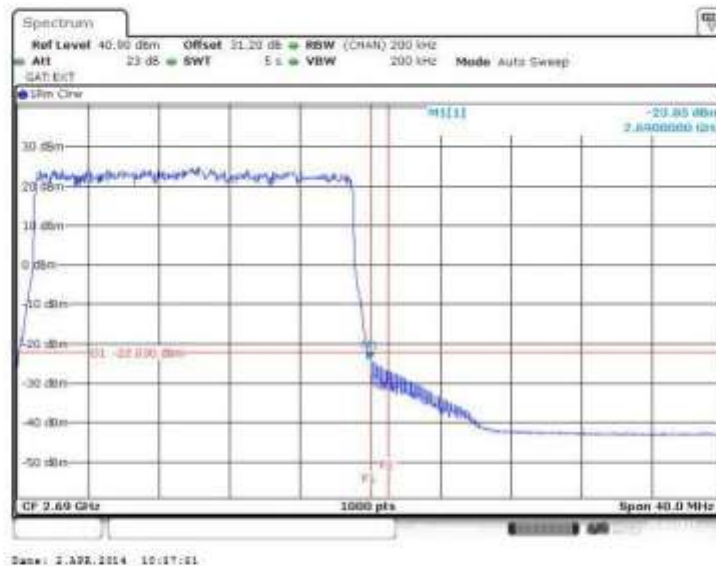


Figure 64 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)

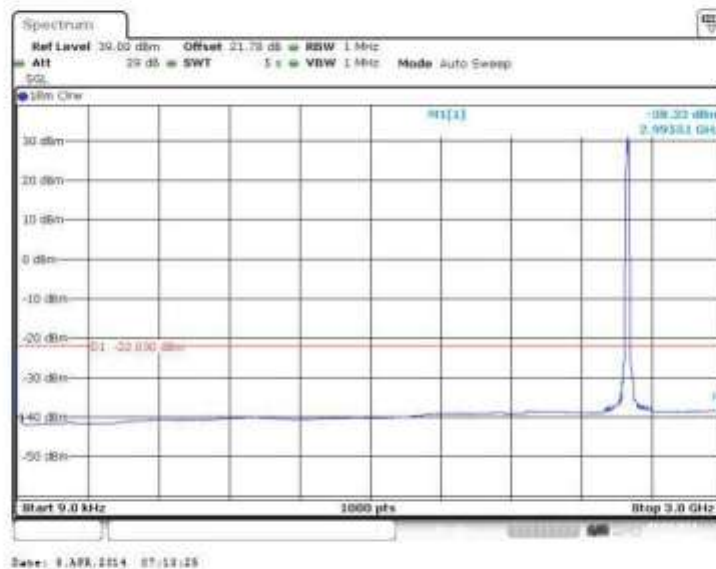


Figure 65 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



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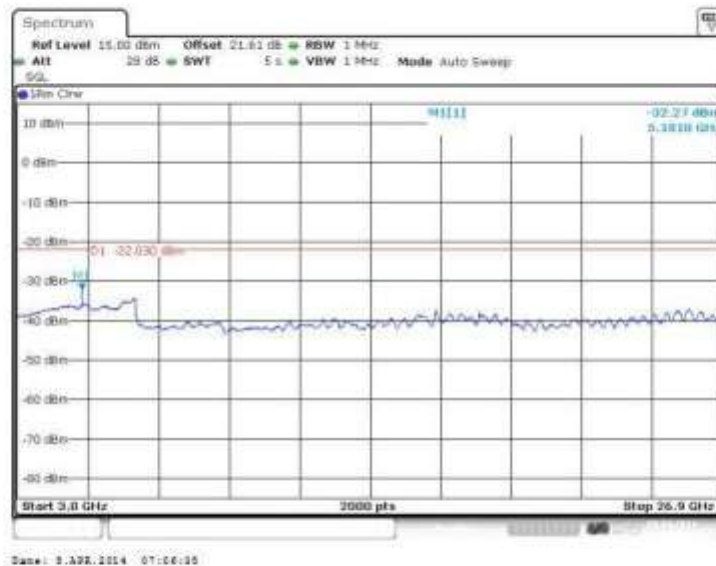


Figure 66 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)

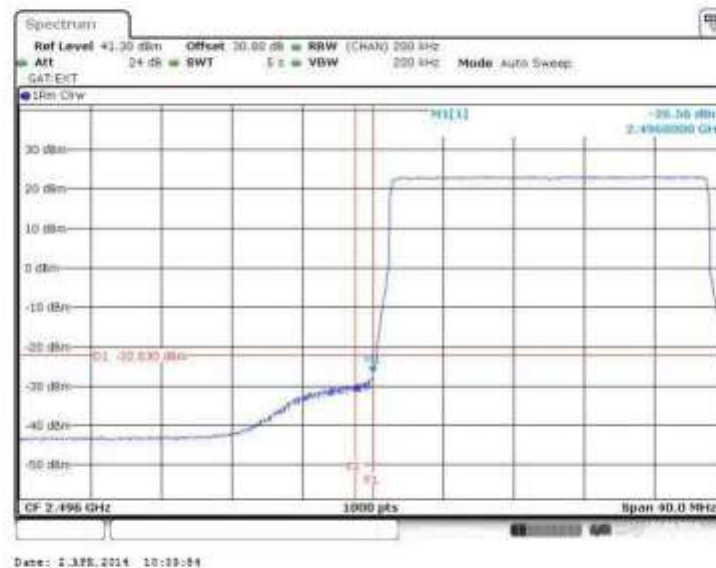


Figure 67 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz) (20MHz Channel BW)



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Figure 68 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)

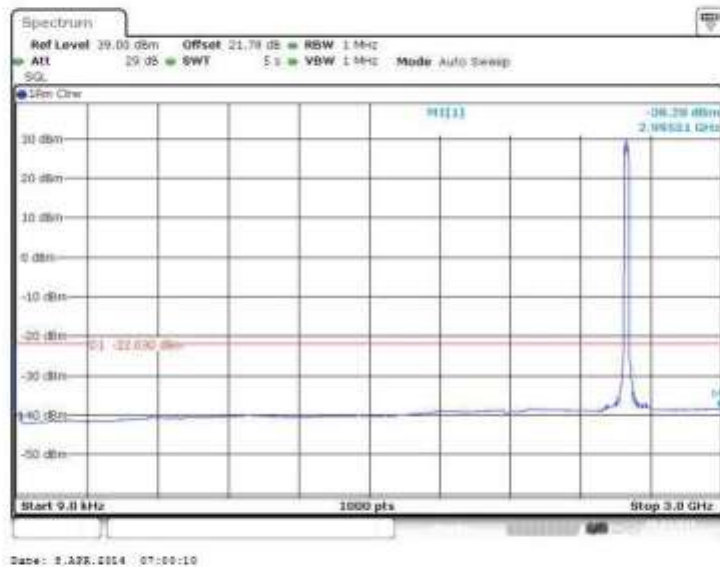


Figure 69 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



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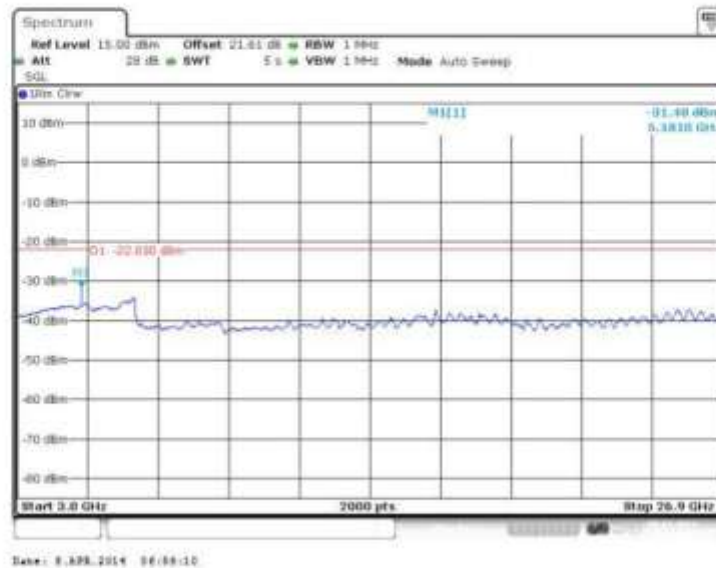


Figure 70 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)

Config A ANT4:

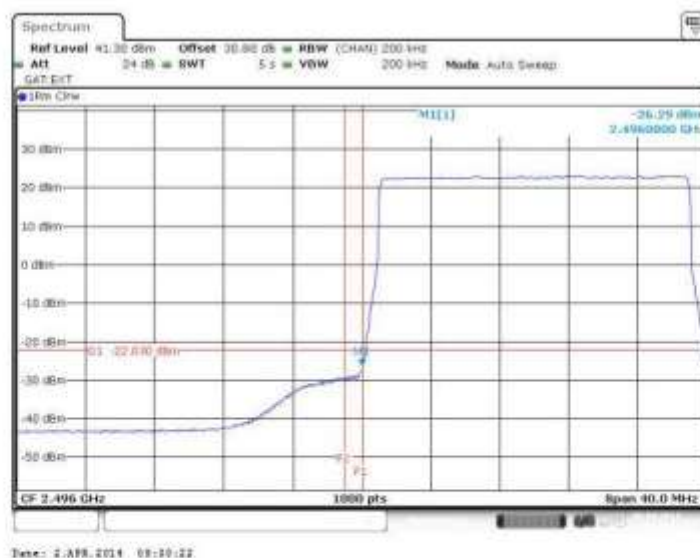


Figure 71 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz) (20MHz Channel BW)

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Figure 72 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz) (20MHz Channel BW)

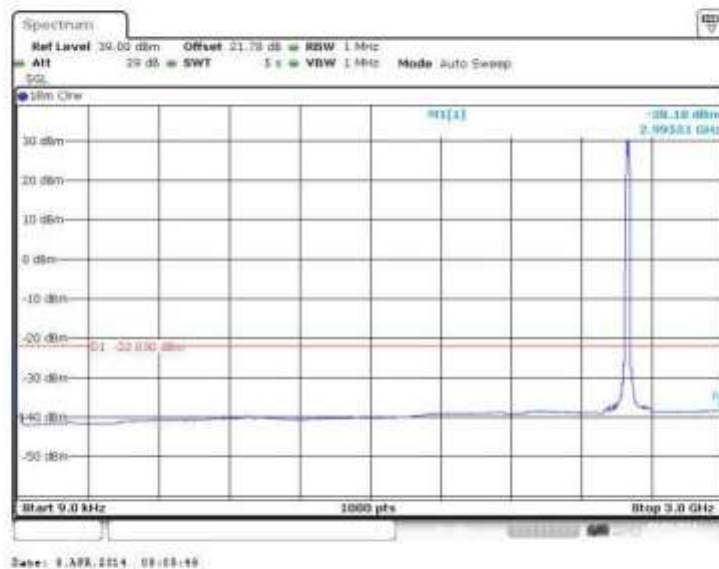


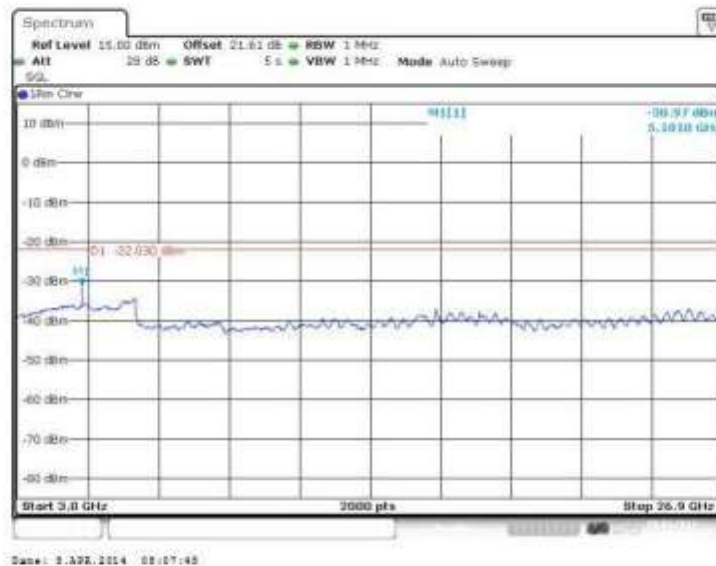
Figure 73 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)



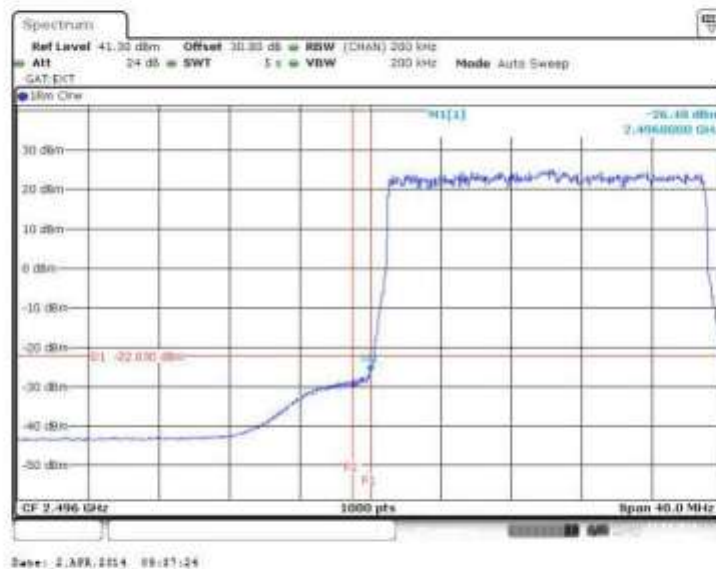
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**Figure 74 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(20MHz Channel BW)**



**Figure 75 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz)
(20MHz Channel BW)**



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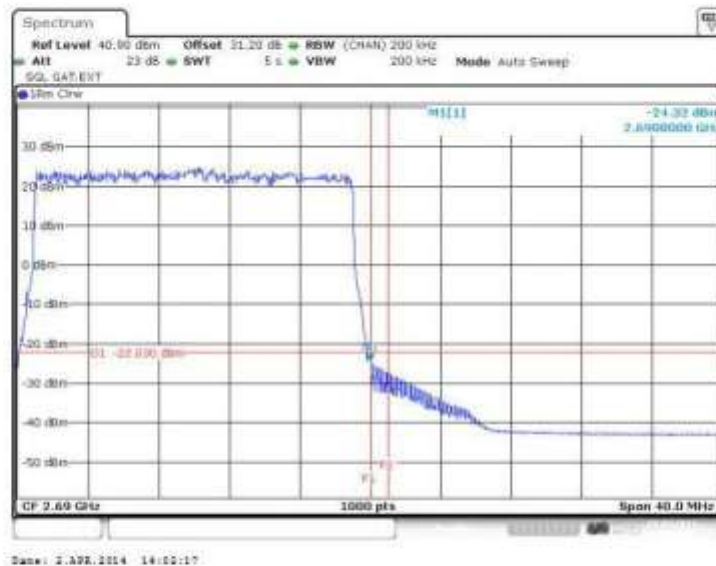


Figure 76 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)

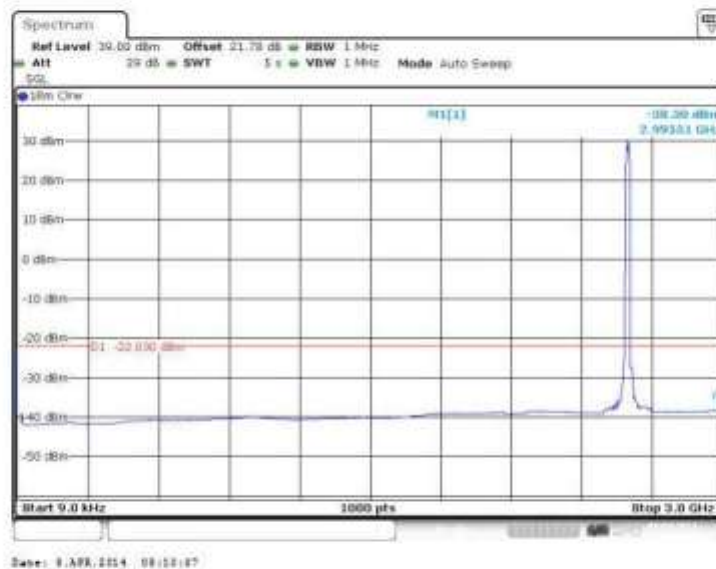


Figure 77 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



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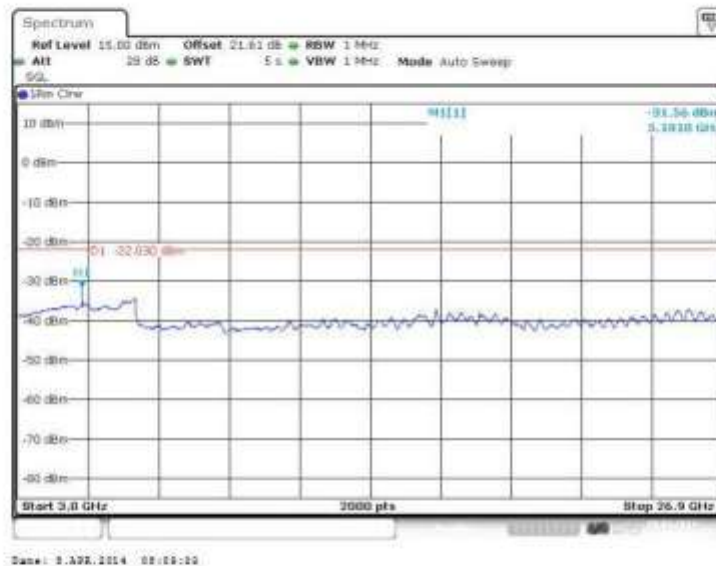


Figure 78 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



Figure 79 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz) (20MHz Channel BW)



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Figure 80 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)

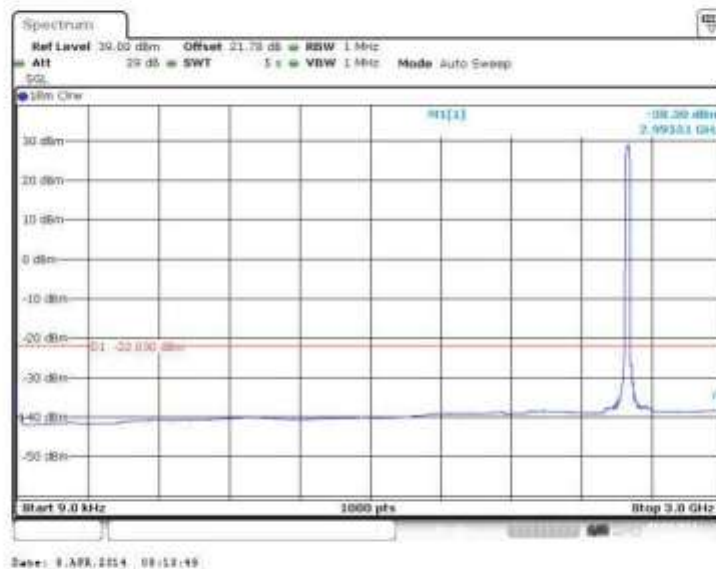


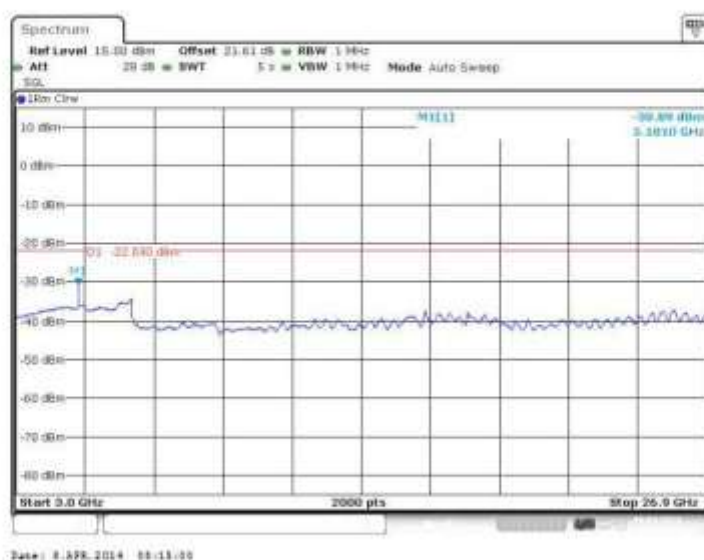
Figure 81 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



Product Service

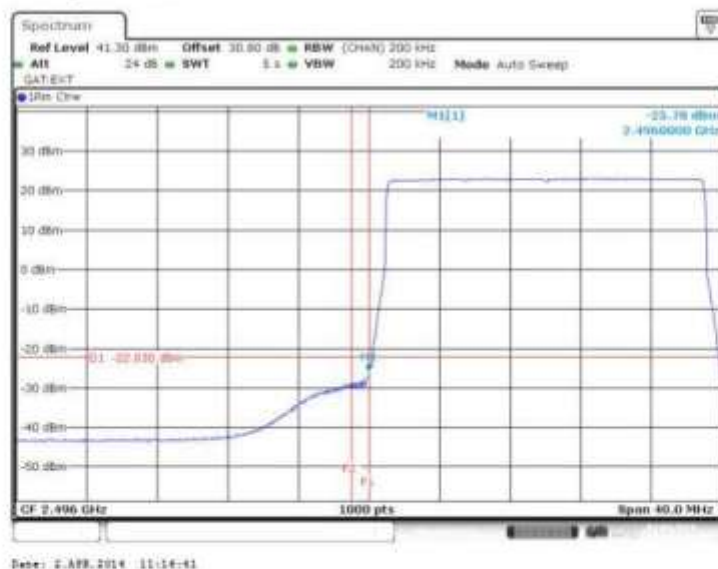
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**Figure 82 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz)
(20MHz Channel BW)**

Config A ANT5:



**Figure 83 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz)
(20MHz Channel BW)**

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Figure 84 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz) (20MHz Channel BW)

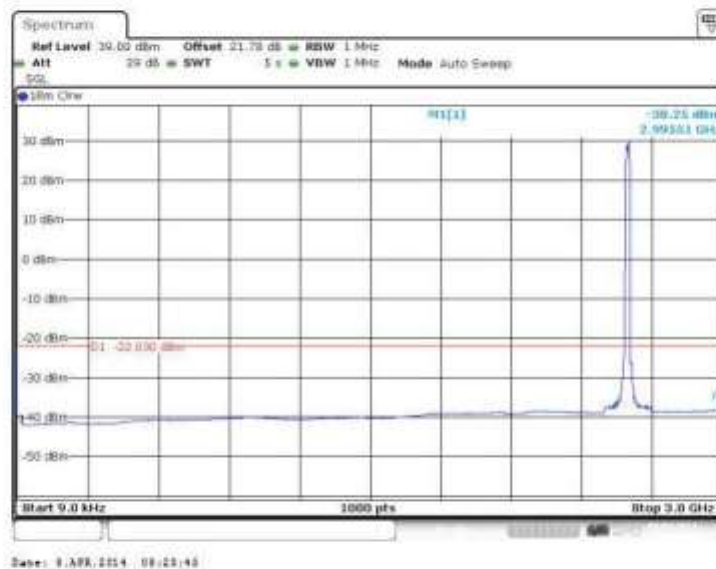


Figure 85 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)



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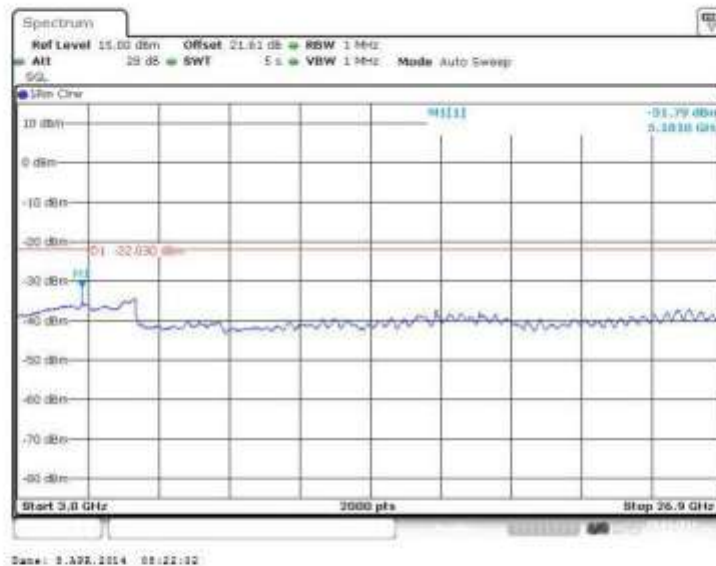


Figure 86 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)

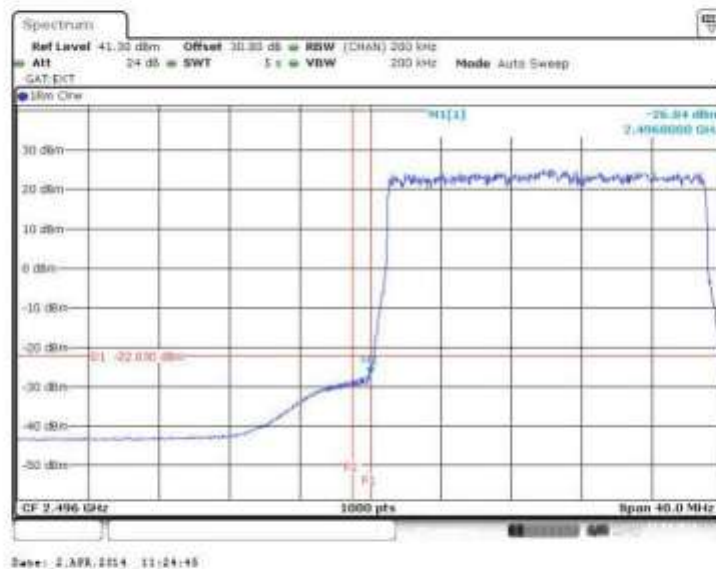


Figure 87 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz) (20MHz Channel BW)



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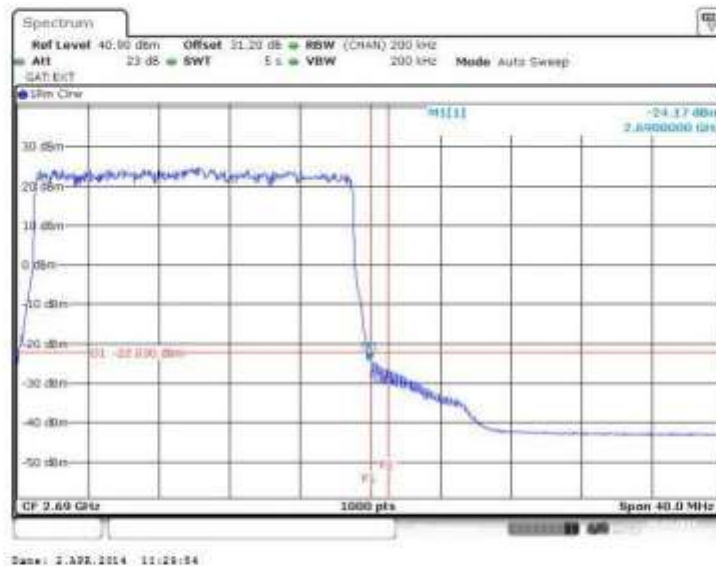


Figure 88 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)

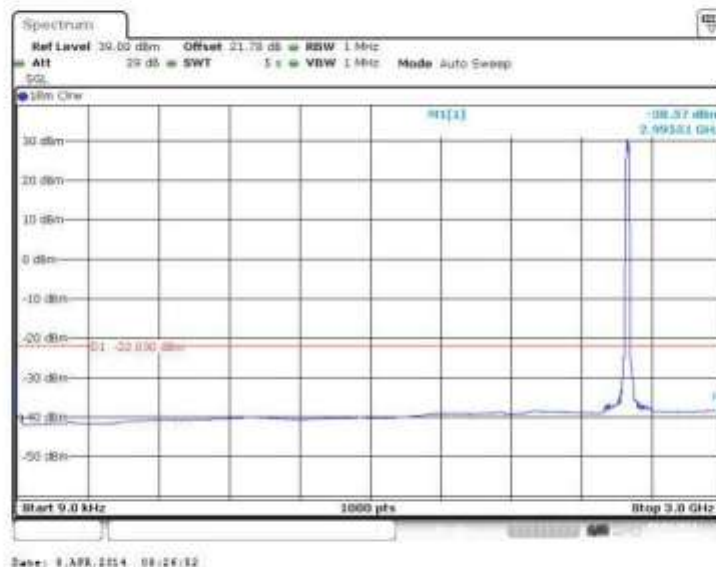


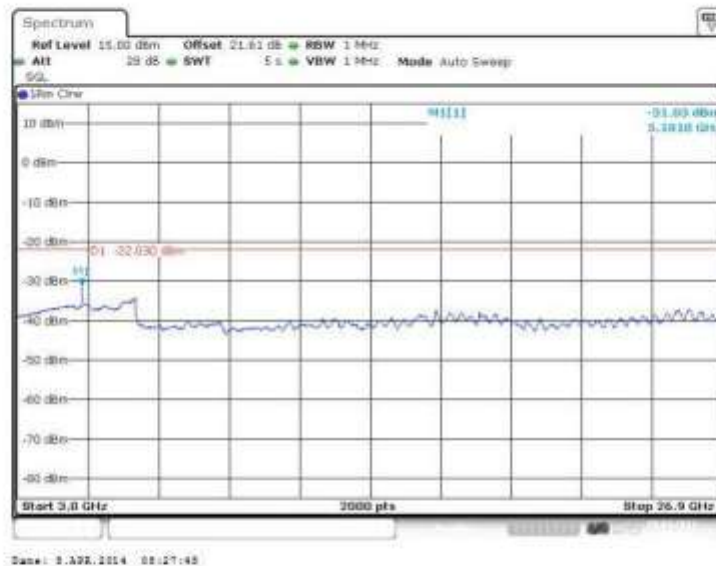
Figure 89 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



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**Figure 90 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz)
(20MHz Channel BW)**



**Figure 91 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz)
(20MHz Channel BW)**



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Figure 92 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)

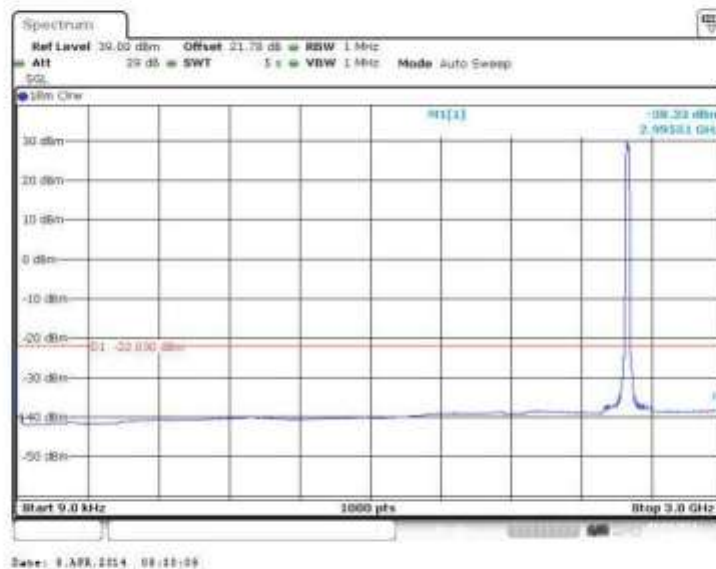


Figure 93 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



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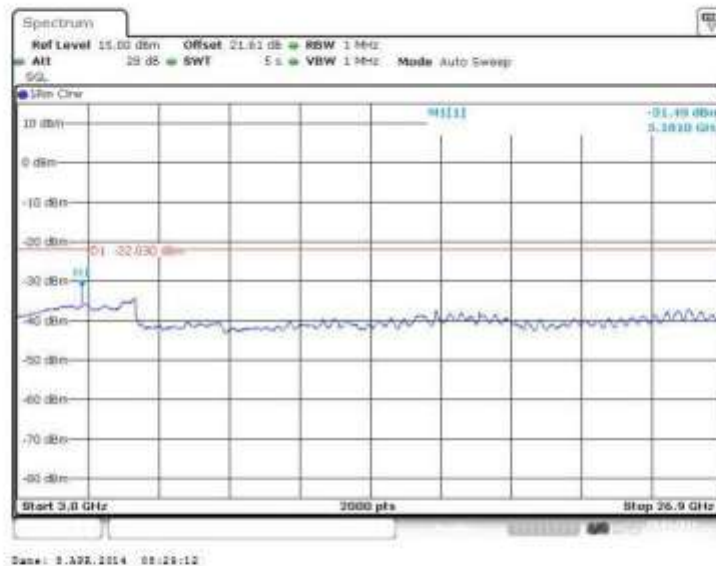


Figure 94 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)

Config A ANT6:



The screenshot displays a Spectrum Analyzer interface. The top panel shows configuration settings: Ref Level 40.00 dBm, Offset 31.20 dB, RBW (CHAN) 200 kHz, Att 23 dB, SWT 5 s, VBW 200 kHz, and Mode Auto Sweep. The main plot area shows a signal (blue line) that is flat at approximately 20 dBm until a sharp drop at 2.69 GHz, where it falls to a noise floor around -45 dBm. A red horizontal line is drawn at -20 dBm. The bottom panel shows the center frequency (CF) at 2.69 GHz, a span of 40.0 MHz, and a resolution bandwidth (RBW) of 200 kHz. The date and time are 2 APR 2014 11:51:30.

Spectrum

Ref Level 38.00 dBm Offset 31.78 dB RBW 1 MHz
 Att 29 dB SWT 5.1 VBW 1 MHz Mode Auto Sweep

38.00 dBm
 2.99553 GHz

Start 9.0 kHz 1000 pts Stop 3.0 GHz

Date: 8.APR.2014 09:34:16

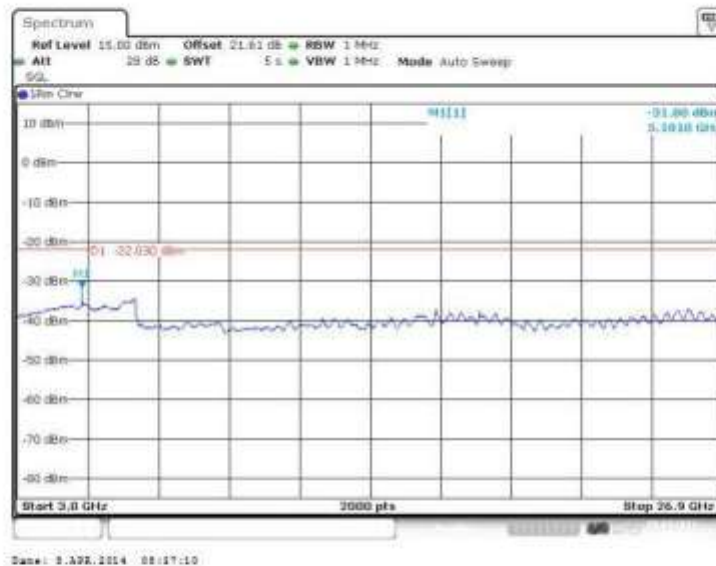
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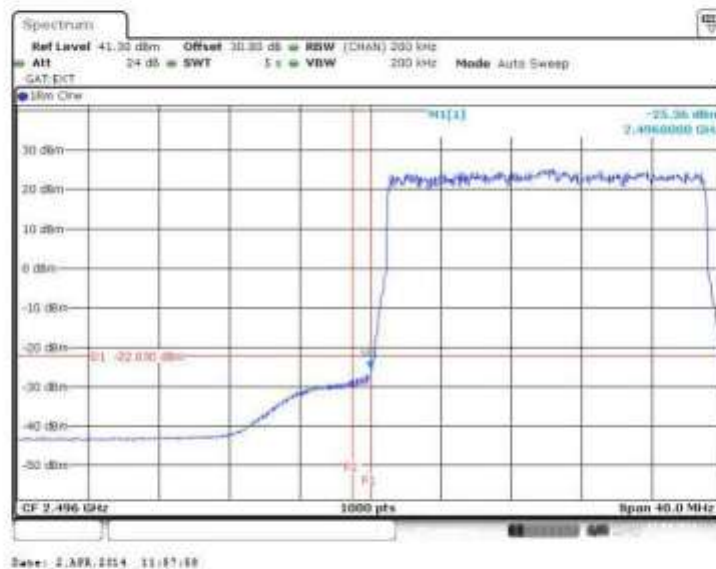
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**Figure 98 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(20MHz Channel BW)**



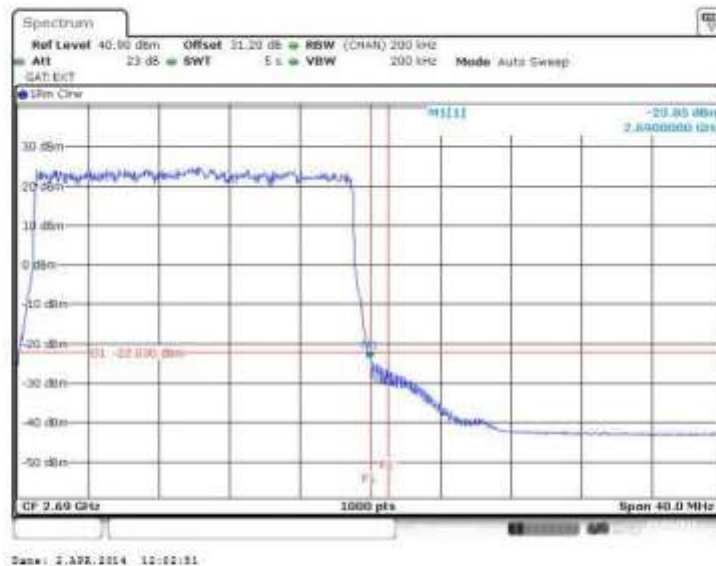
**Figure 99 Spurious Emissions (Lower Band Edge)– 16QAM (2506.0 MHz)
(20MHz Channel BW)**



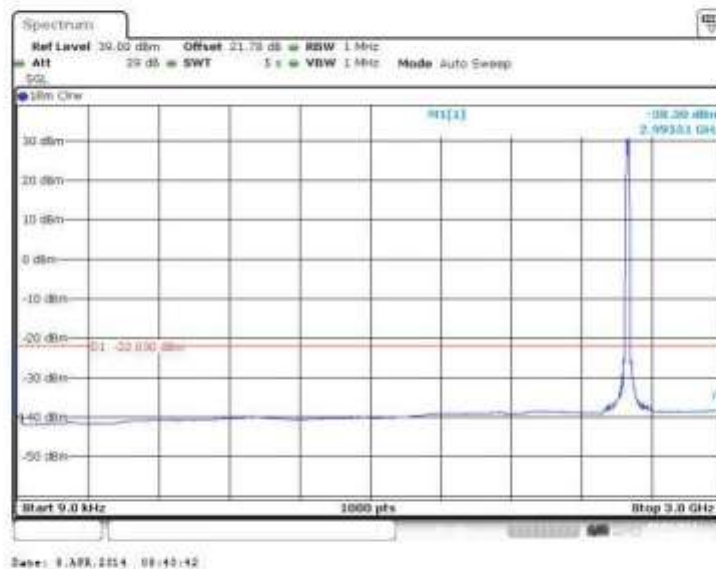
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**Figure 100 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz)
(20MHz Channel BW)**



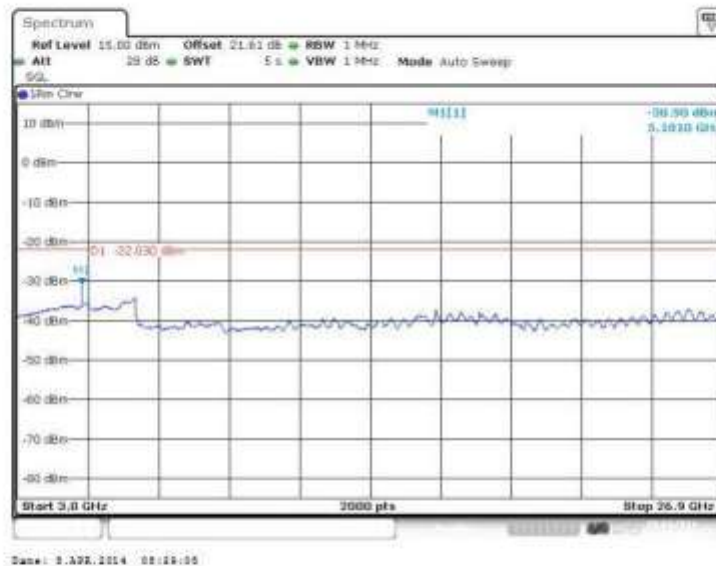
**Figure 101 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz)
(20MHz Channel BW)**



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**Figure 102 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz)
(20MHz Channel BW)**



**Figure 103 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz)
(20MHz Channel BW)**



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Figure 104 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)

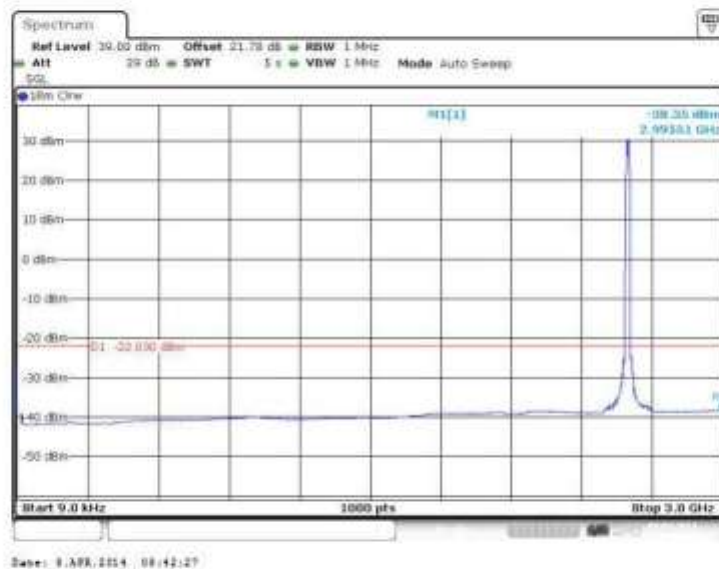


Figure 105 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



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D509925016

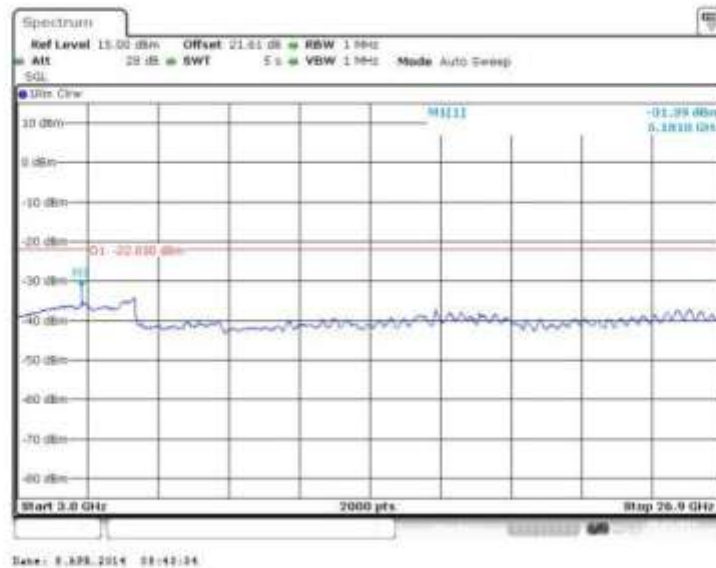


Figure 106 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)

Config A ANT7:

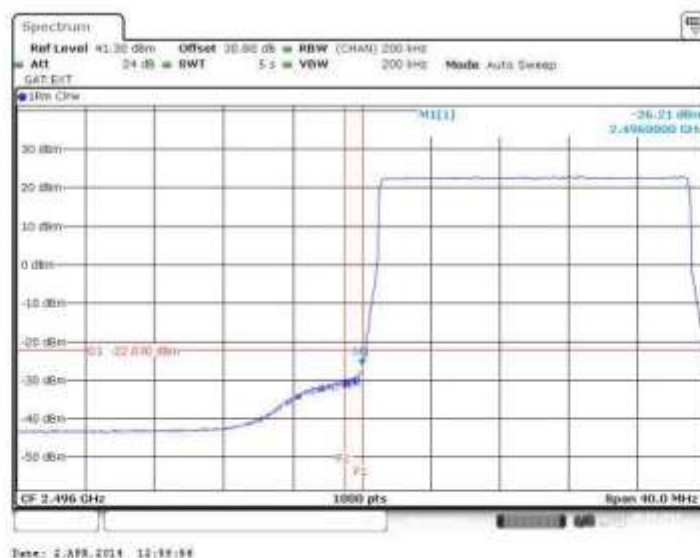


Figure 107 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz) (20MHz Channel BW)

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Figure 108 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz) (20MHz Channel BW)

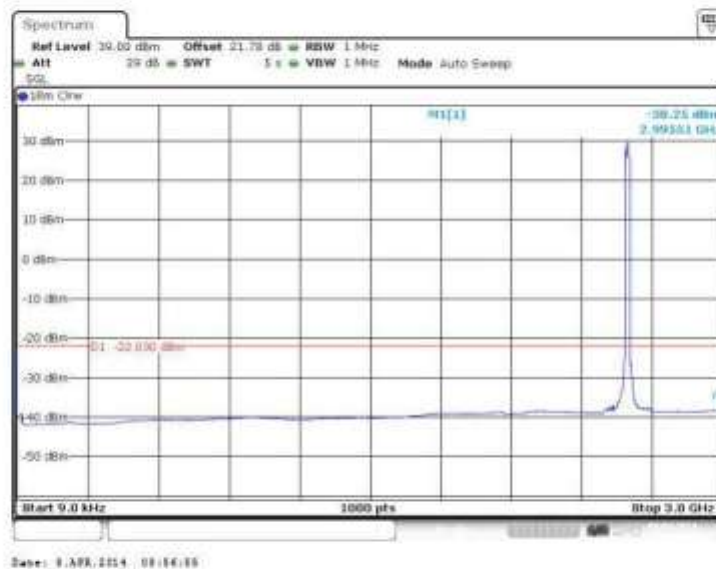


Figure 109 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)



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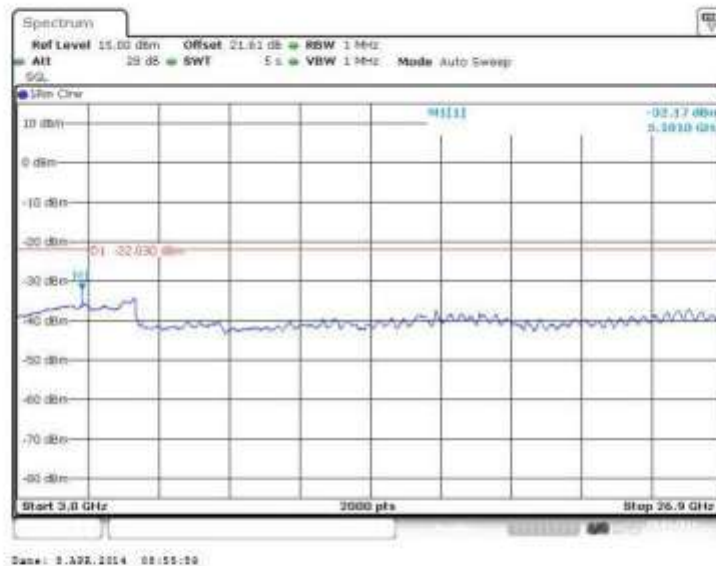


Figure 110 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)

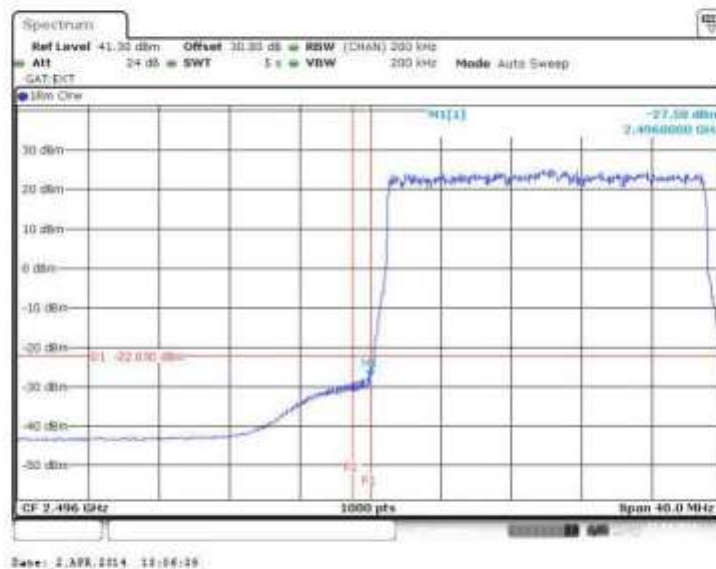


Figure 111 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz) (20MHz Channel BW)



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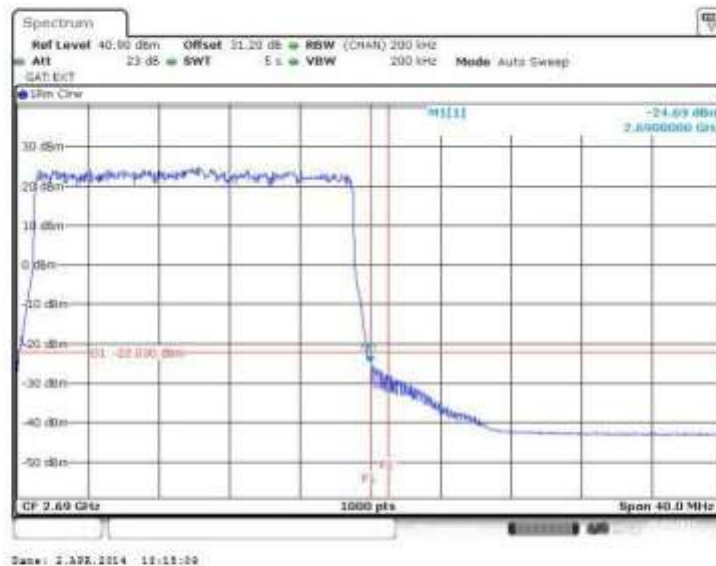


Figure 112 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)

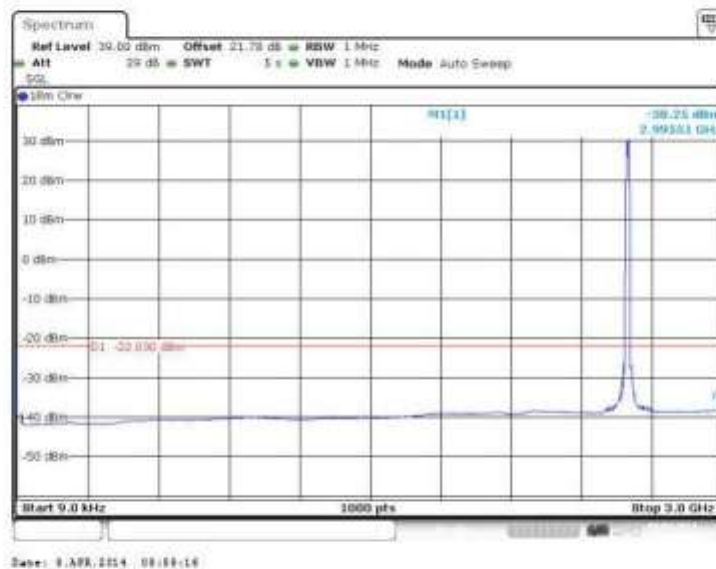


Figure 113 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



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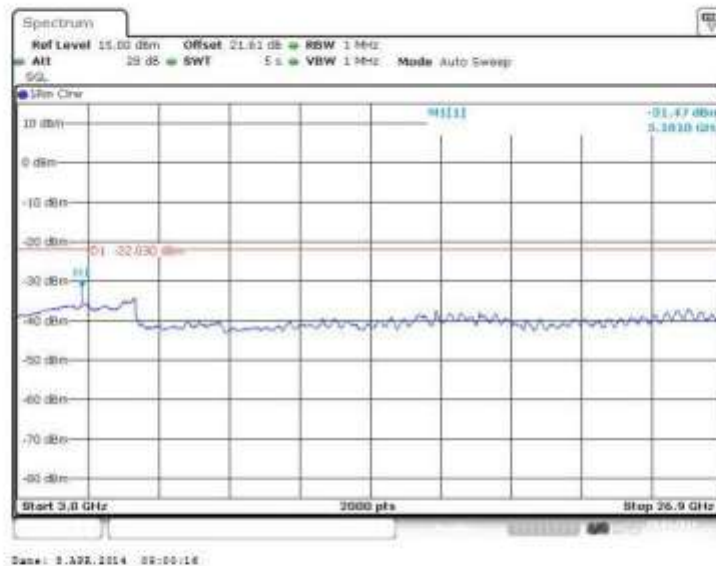


Figure 114 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



Figure 115 Spurious Emissions (Lower Band Edge)– 64QAM (2506.0 MHz) (20MHz Channel BW)



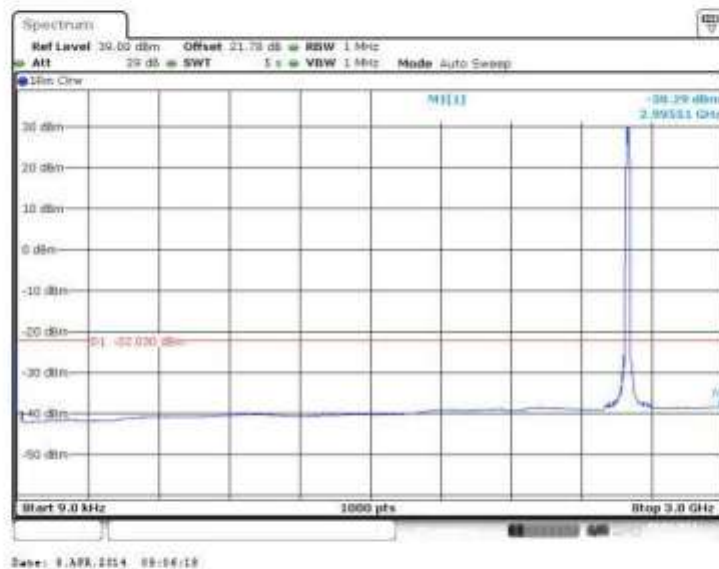
Product Service

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VBNFZHJ-01

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**Figure 116 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz)
(20MHz Channel BW)**



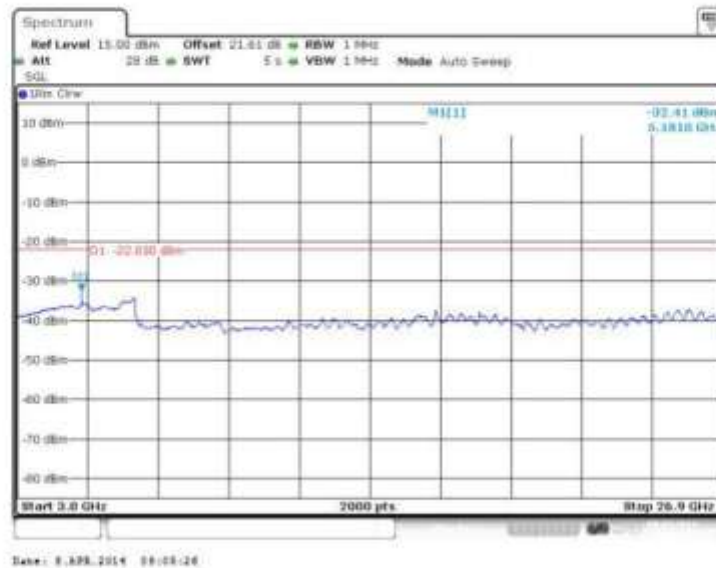
**Figure 117 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz)
(20MHz Channel BW)**



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**Figure 118 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz)
(20MHz Channel BW)**

Config A ANT8:



**Figure 119 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz)
(20MHz Channel BW)**

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**Figure 120 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz)
(20MHz Channel BW)**

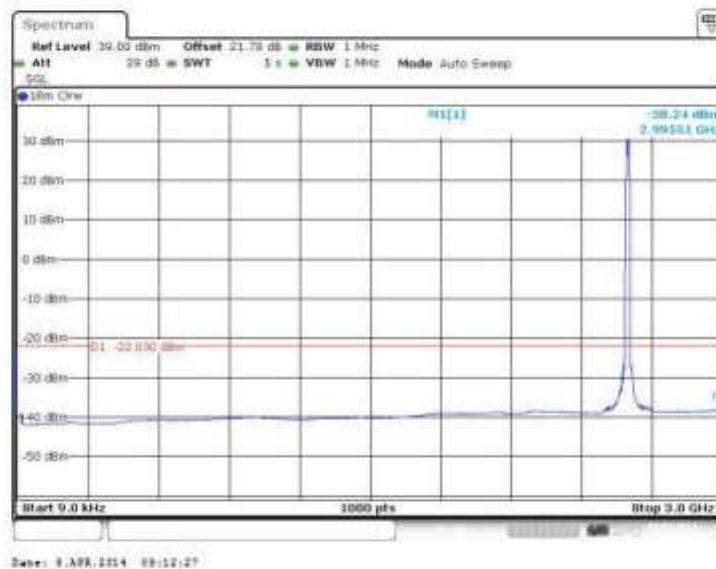


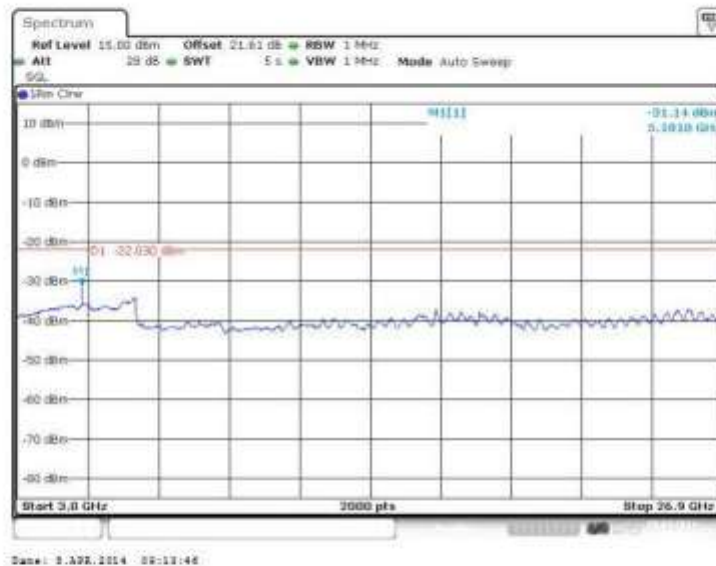
Figure 121 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (20MHz Channel BW)



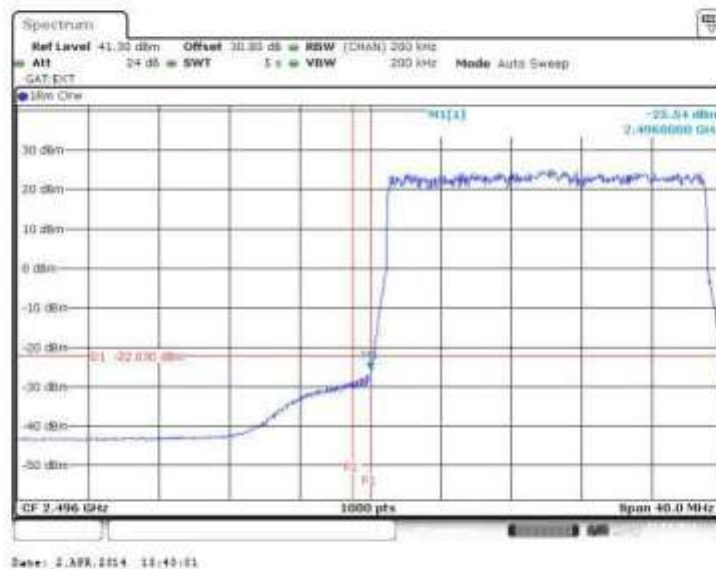
Product Service

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**Figure 122 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(20MHz Channel BW)**



**Figure 123 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0 MHz)
(20MHz Channel BW)**



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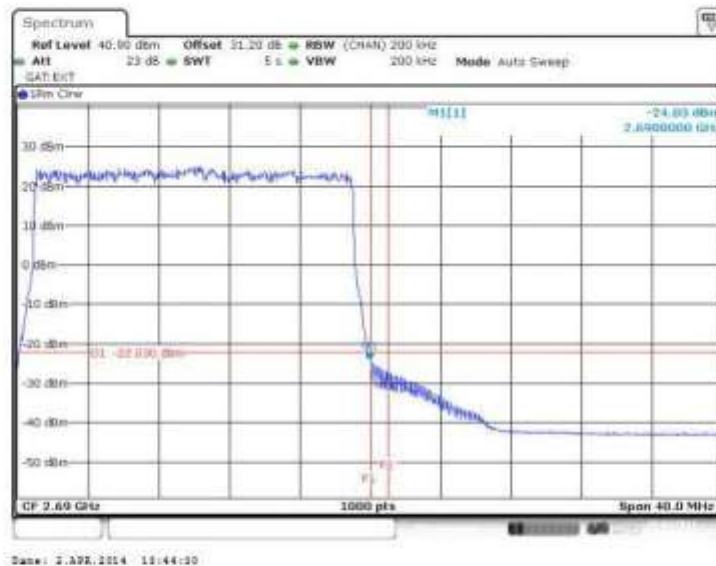


Figure 124 Spurious Emissions (Upper Band Edge) – 16QAM (2680.0 MHz) (20MHz Channel BW)

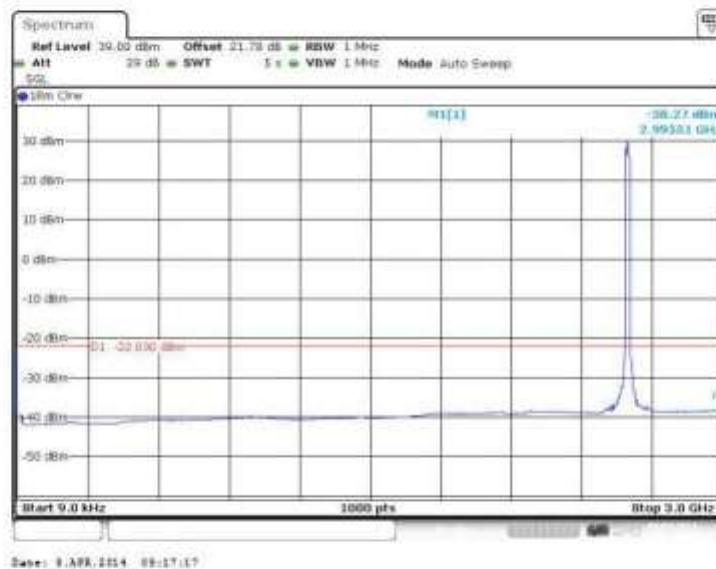


Figure 125 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



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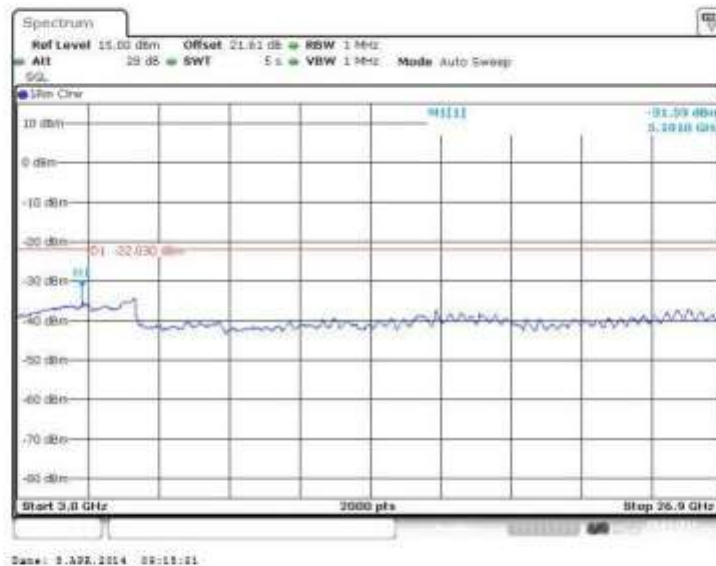


Figure 126 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (20MHz Channel BW)



Figure 127 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0 MHz) (20MHz Channel BW)



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Figure 128 Spurious Emissions (Upper Band Edge) – 64QAM (2680.0 MHz) (20MHz Channel BW)

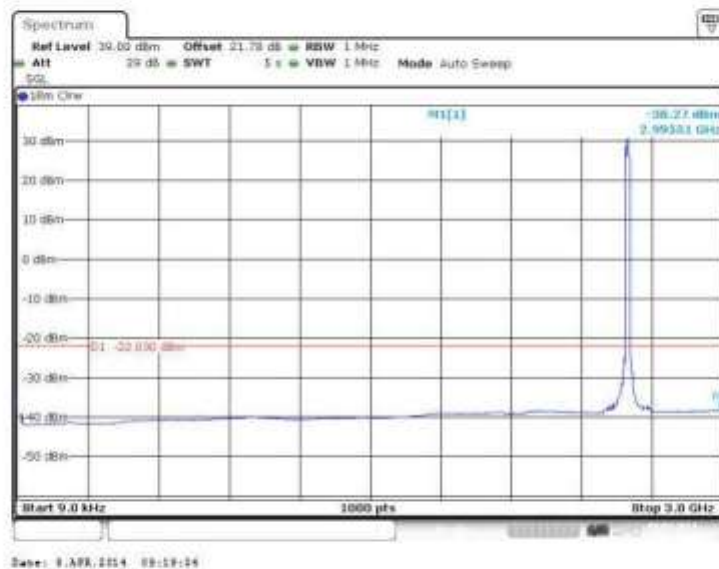
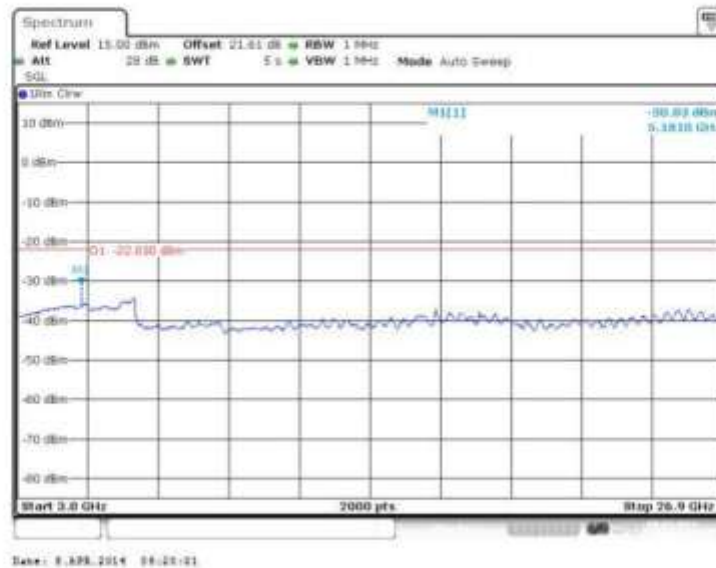


Figure 129 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (20MHz Channel BW)



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**Figure 130 Spurious Emissions (3GHz – 26,900GHz) – 64QAM (2593.0 MHz)
(20MHz Channel BW)**

Config B ANT1:

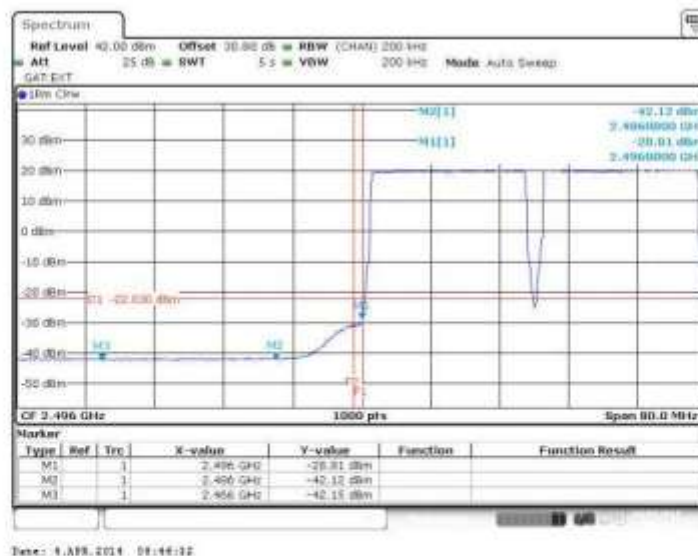


Figure 131 Spurious Emissions (Lower Band Edge) – QPSK (2506.0/2526.0 MHz) (20MHz Channel BW)



Product Service

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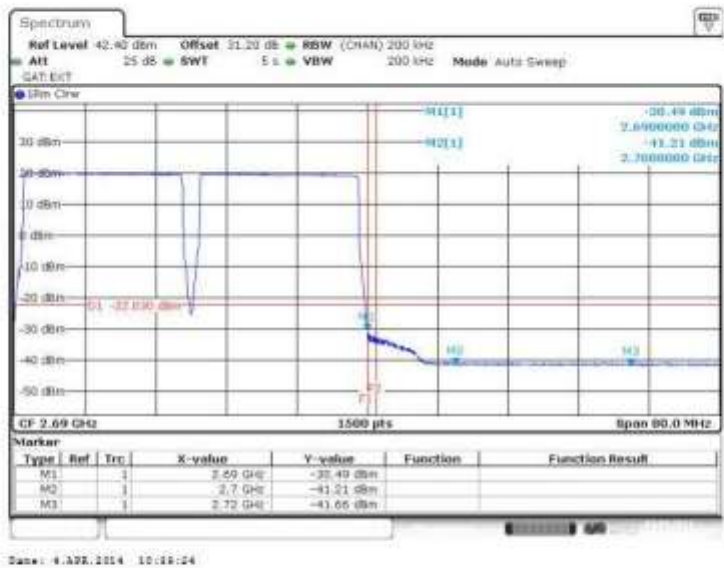


Figure 132 Spurious Emissions (Upper Band Edge) – QPSK (2660.0/2680.0 MHz) (20MHz Channel BW)

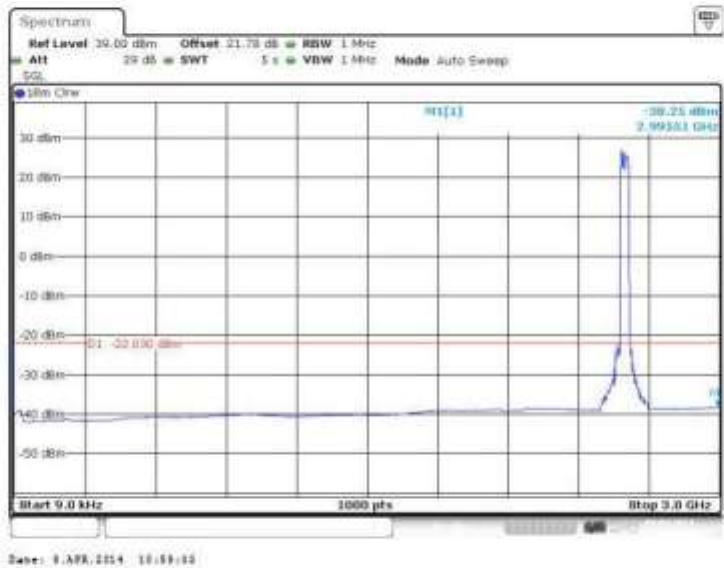


Figure 133 Spurious Emissions (9kHz – 3GHz) - QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)



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FCC ID:
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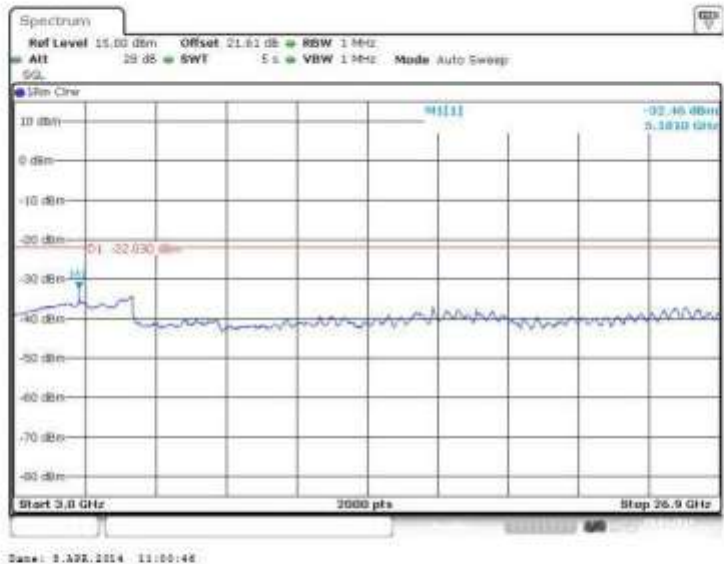


Figure 134 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)

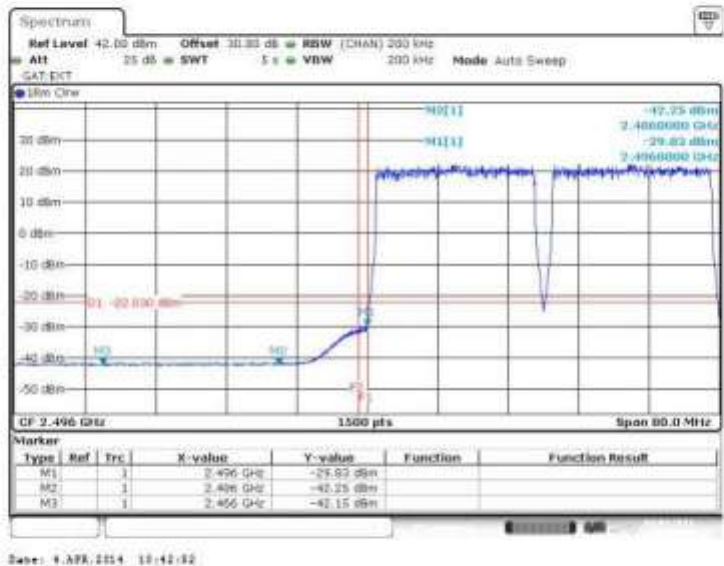


Figure 135 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



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FCC ID:
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Test Report No:
D509925016

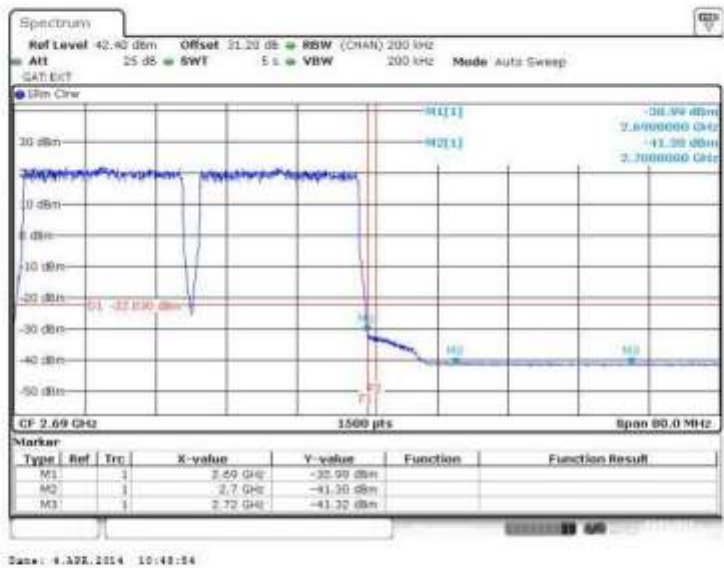


Figure 136 Spurious Emissions (Upper Band Edge) – 16QAM (2660.0/2680.0 MHz) (20MHz Channel BW)

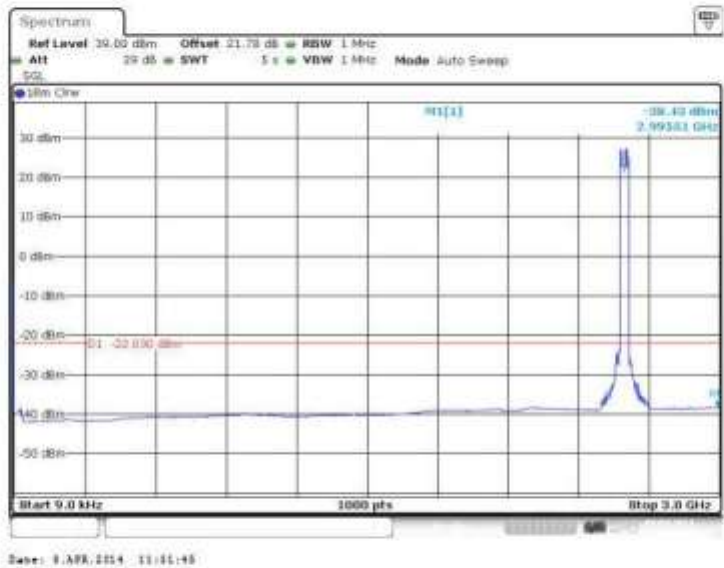


Figure 137 Spurious Emissions (9kHz – 3GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



FCC ID:
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D509925016

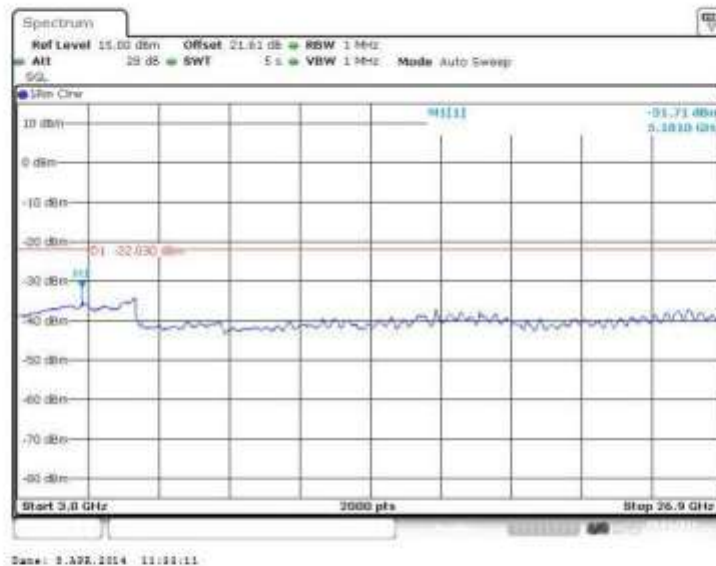


Figure 138 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)

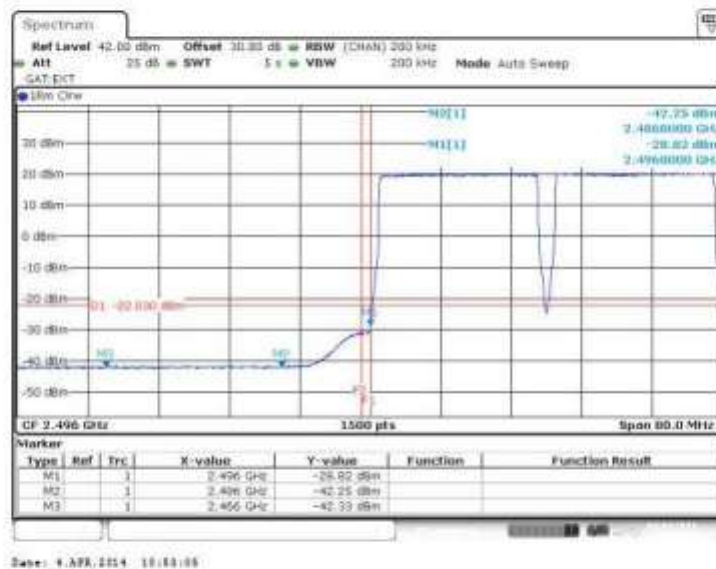


Figure 139 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



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FCC ID:
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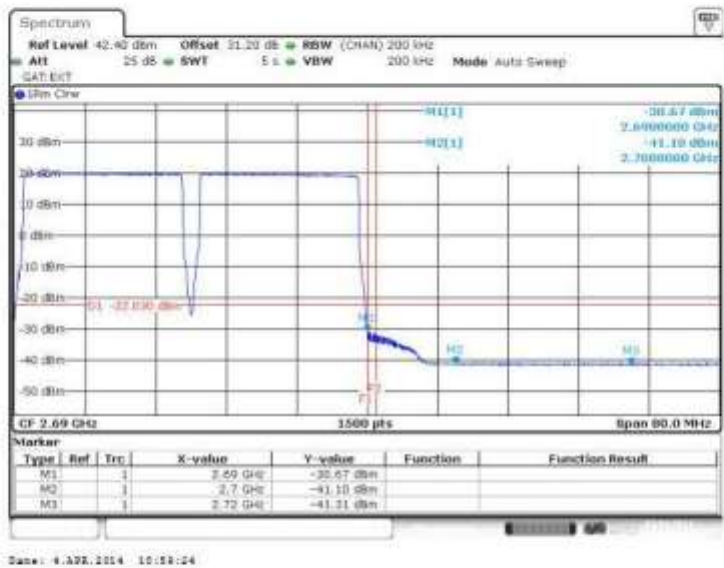


Figure 140 Spurious Emissions (Upper Band Edge) – 64QAM (2660.0/2680.0 MHz) (20MHz Channel BW)

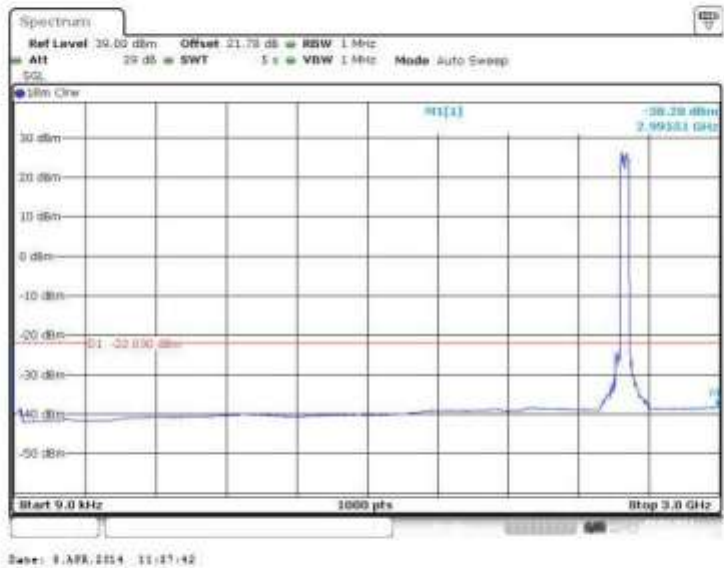


Figure 141 Spurious Emissions (9kHz – 3GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Product Service

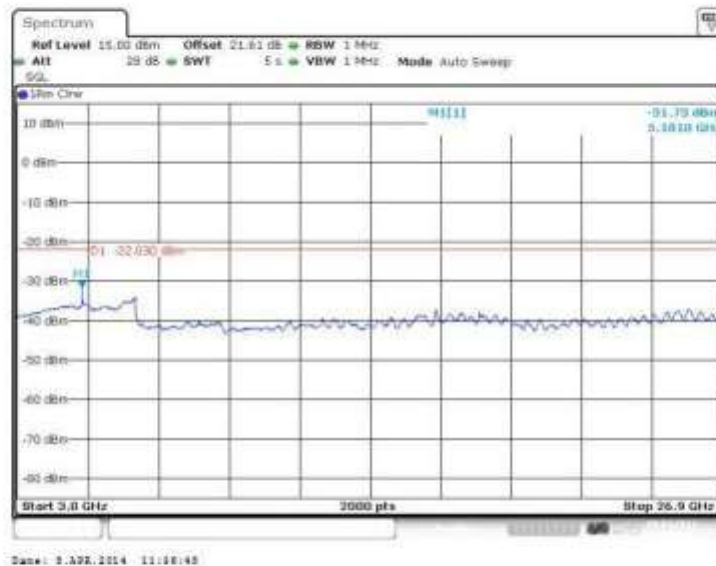
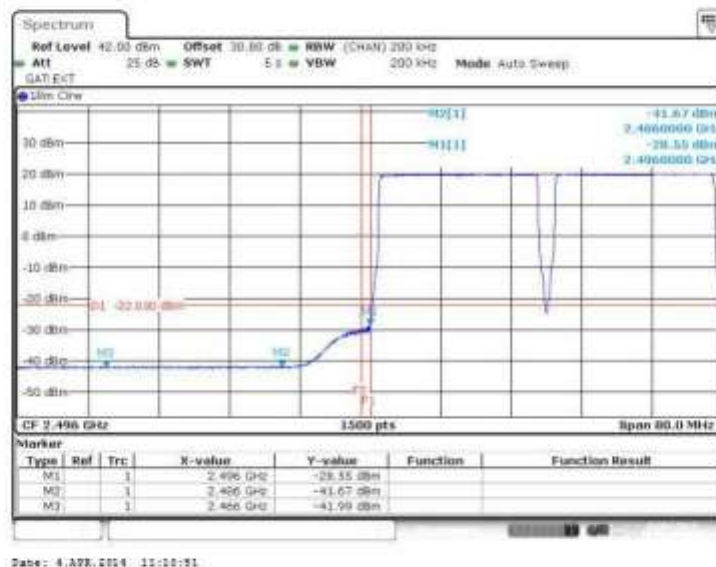
FCC ID:
VBNFZHJ-01Test Report No:
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Figure 142 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)

Config B ANT2:





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Figure 143 Spurious Emissions (Lower Band Edge) – QPSK (2506.0/2526.0 MHz) (20MHz Channel BW)

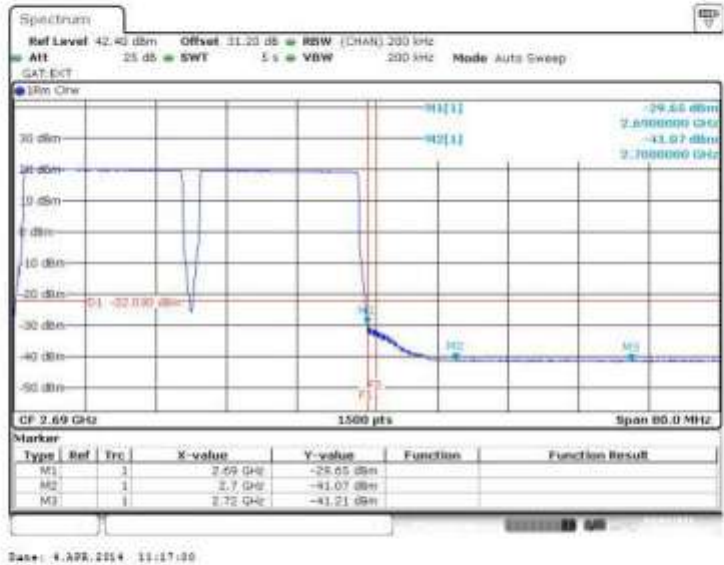


Figure 144 Spurious Emissions (Upper Band Edge) – QPSK (2660.0/2680.0 MHz) (20MHz Channel BW)

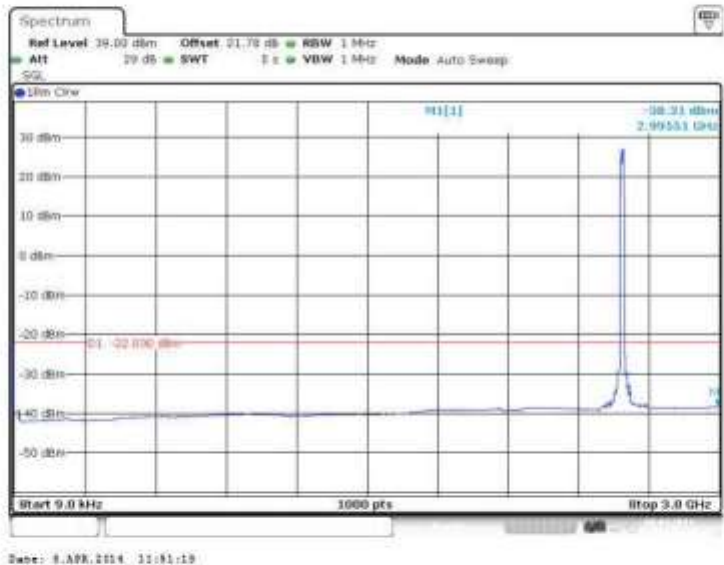


Figure 145 Spurious Emissions (9kHz – 3GHz) – QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)



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FCC ID:
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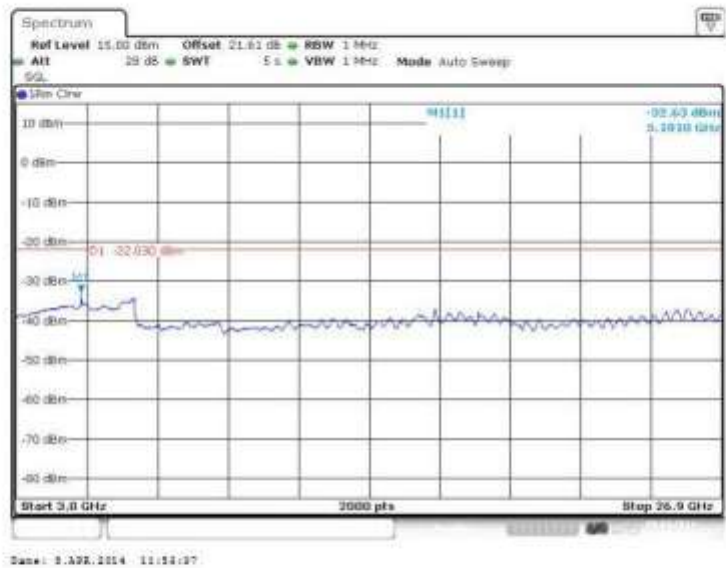


Figure 146 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)

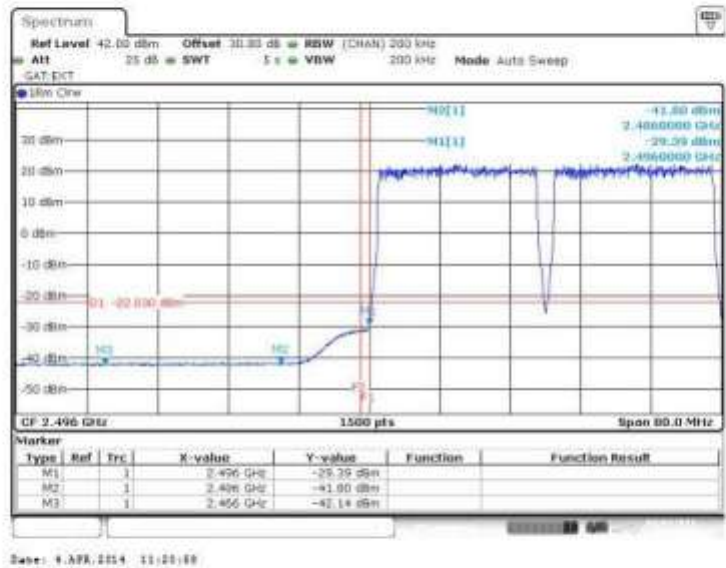


Figure 147 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



Product Service

FCC ID:
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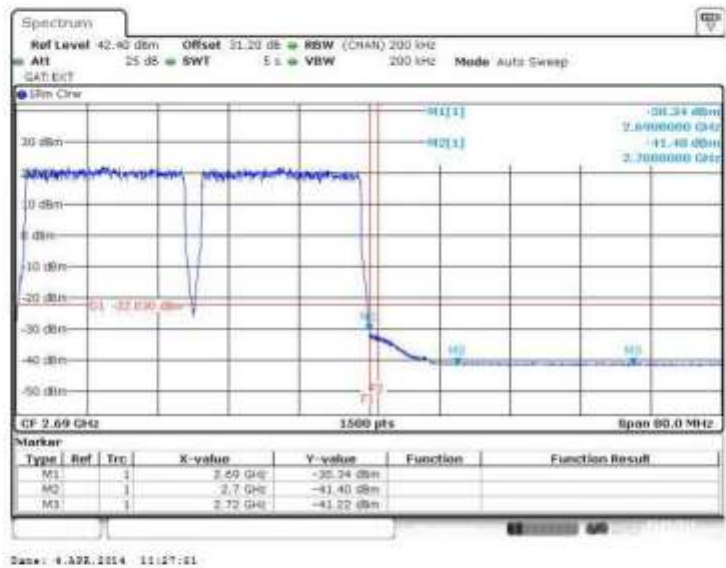


Figure 148 Spurious Emissions (Upper Band Edge) – 16QAM (2660.0/2680.0 MHz) (20MHz Channel BW)

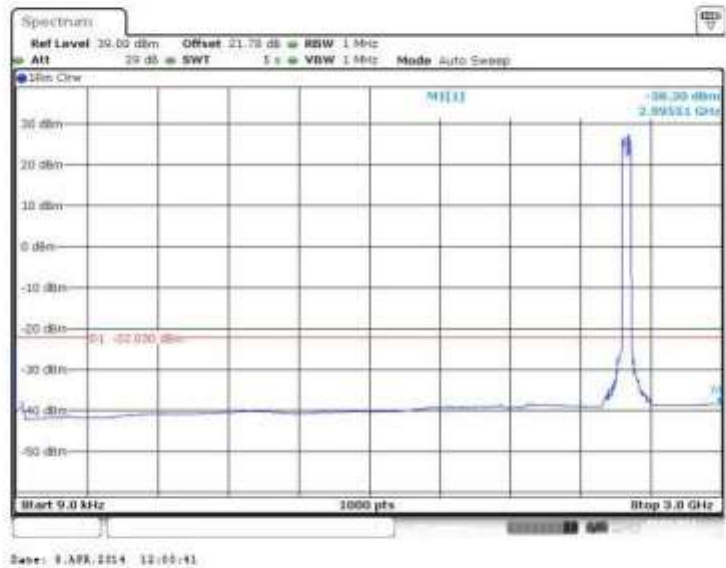


Figure 149 Spurious Emissions (9kHz – 3GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



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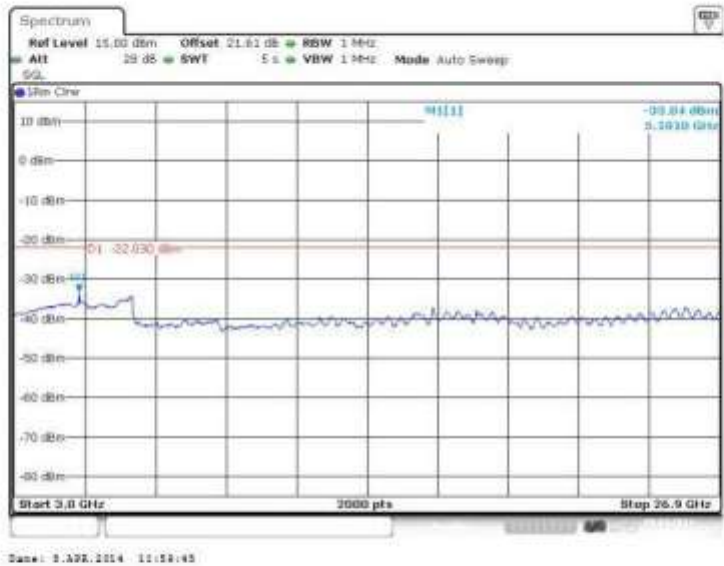


Figure 150 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)

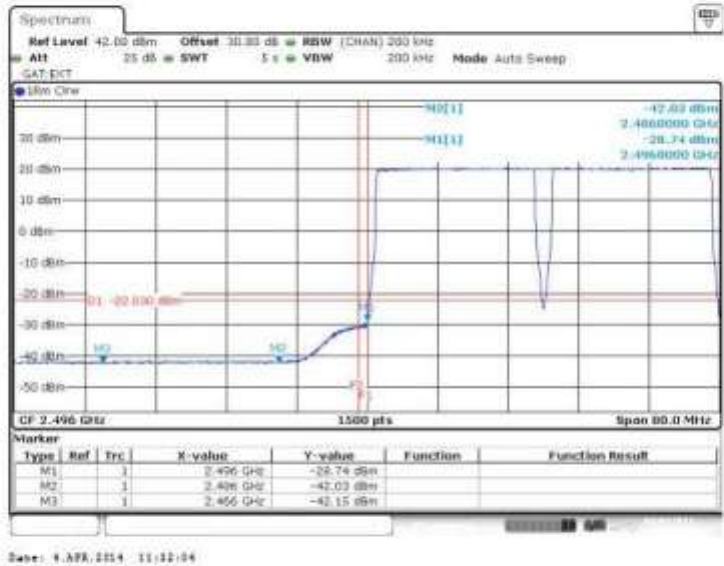


Figure 151 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



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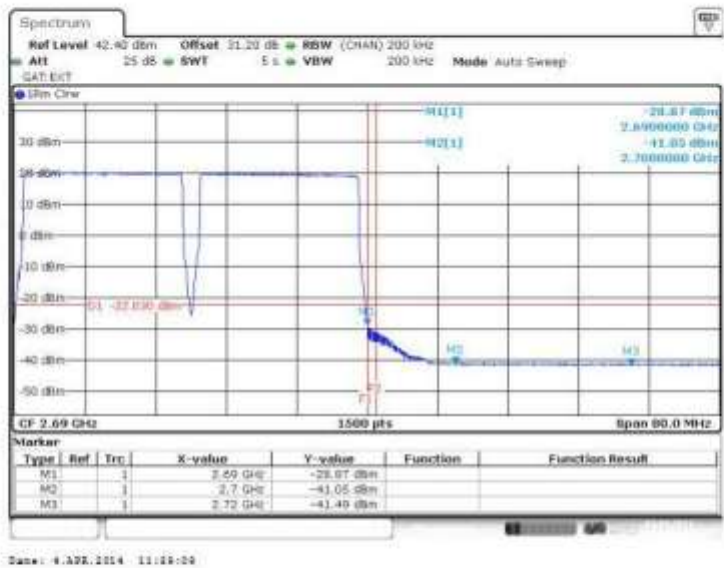


Figure 152 Spurious Emissions (Upper Band Edge) – 64QAM (2660.0/2680.0 MHz) (20MHz Channel BW)

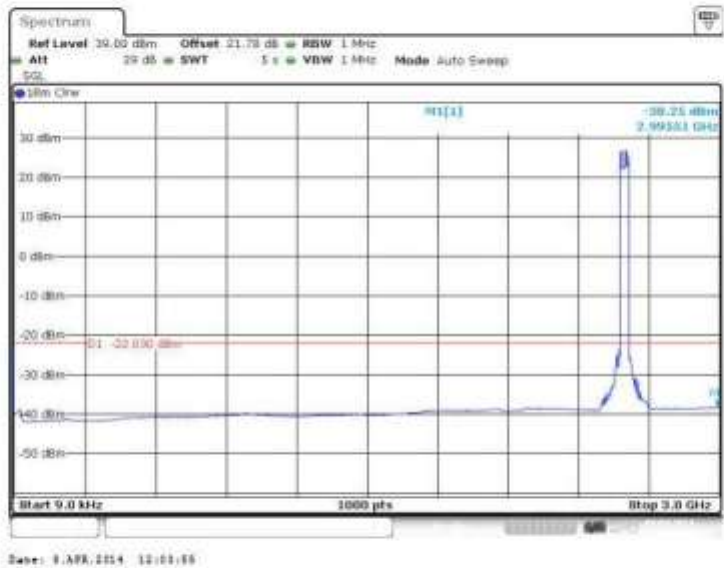


Figure 153 Spurious Emissions (9kHz – 3GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



Product Service

FCC ID:
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Test Report No:
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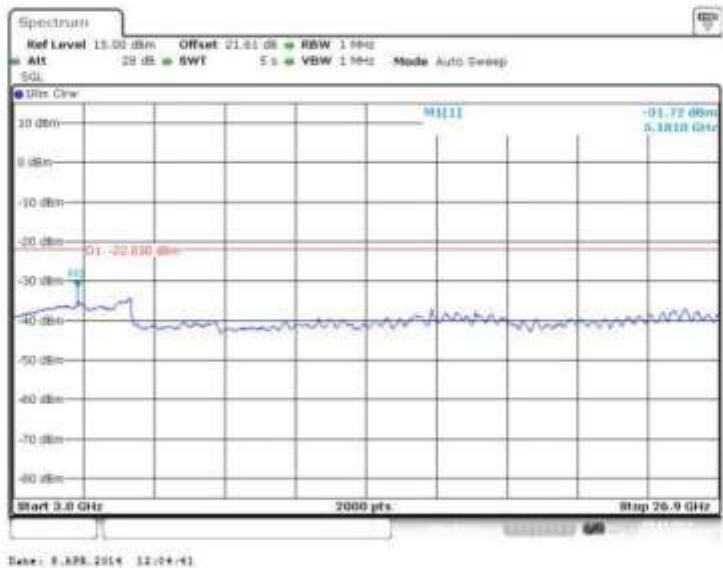


Figure 154 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)

Config B ANT3:

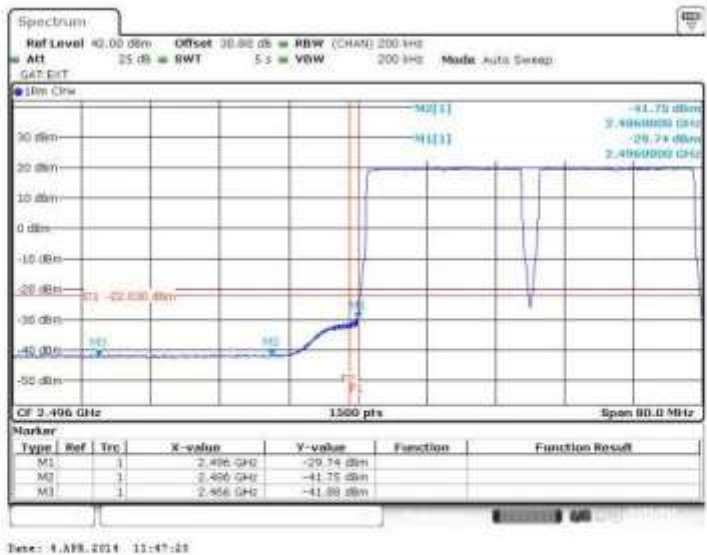


Figure 155 Spurious Emissions (Lower Band Edge) – QPSK (2506.0/2526.0 MHz) (20MHz Channel BW)



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FCC ID:
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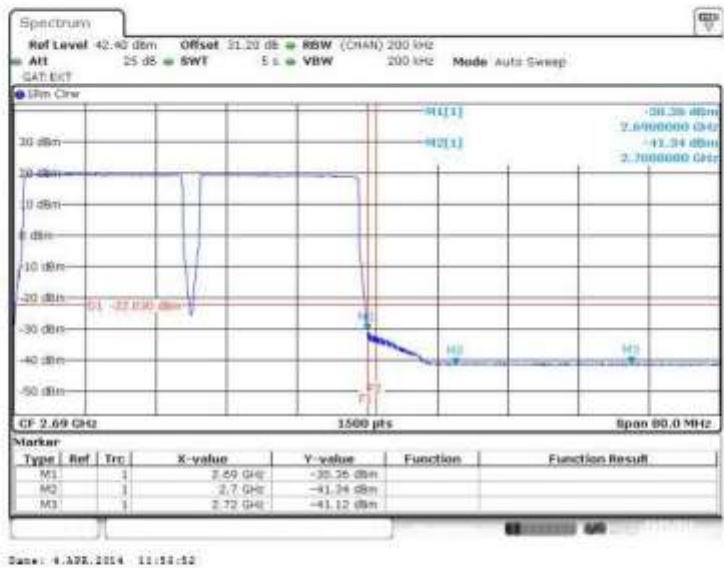


Figure 156 Spurious Emissions (Upper Band Edge) – QPSK (2660.0/2680.0 MHz) (20MHz Channel BW)

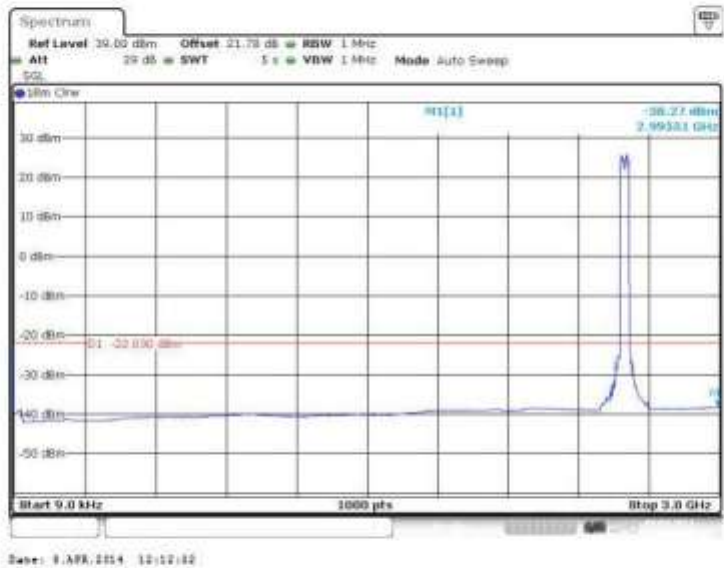


Figure 157 Spurious Emissions (9kHz – 3GHz) - QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)



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Test Report No:
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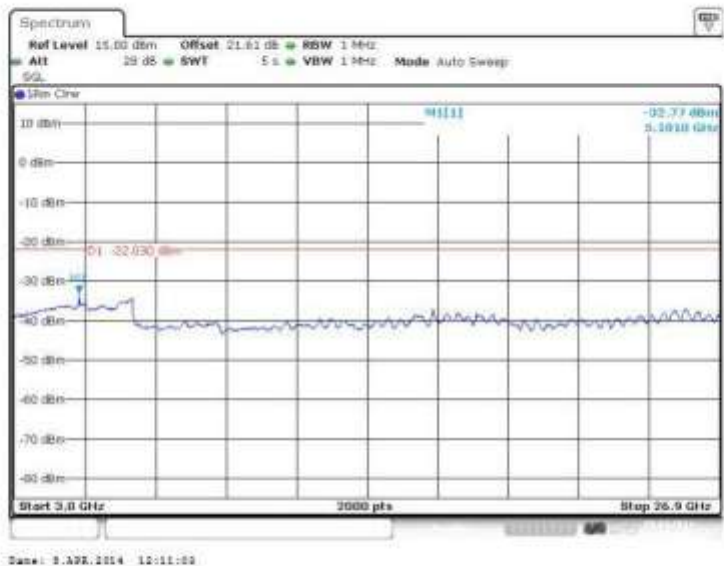


Figure 158 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2583.0/2603.0 MHz) (20MHz Channel BW)

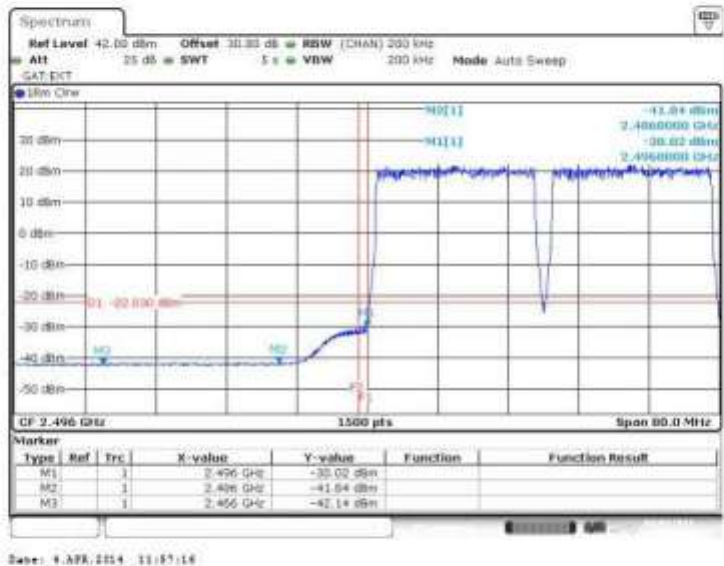


Figure 159 Spurious Emissions (Lower Band Edge) – 16QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



Product Service

FCC ID:
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Test Report No:
D509925016

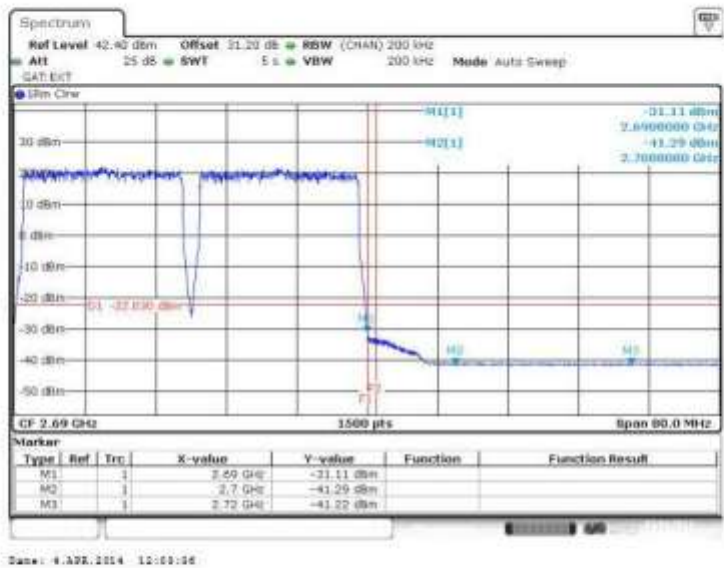


Figure 160 Spurious Emissions (Upper Band Edge) – 16QAM (2660.0/2680.0 MHz) (20MHz Channel BW)

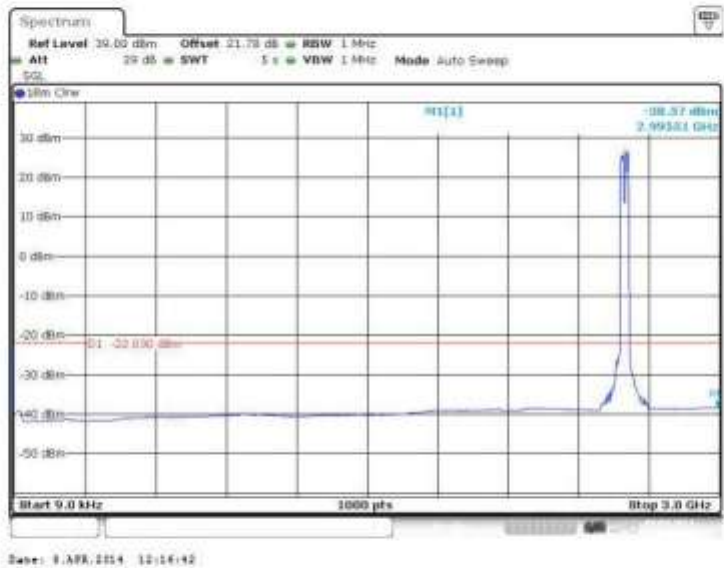


Figure 161 Spurious Emissions (9kHz – 3GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)



FCC ID:
VBNFZHJ-01

Test Report No:
D509925016

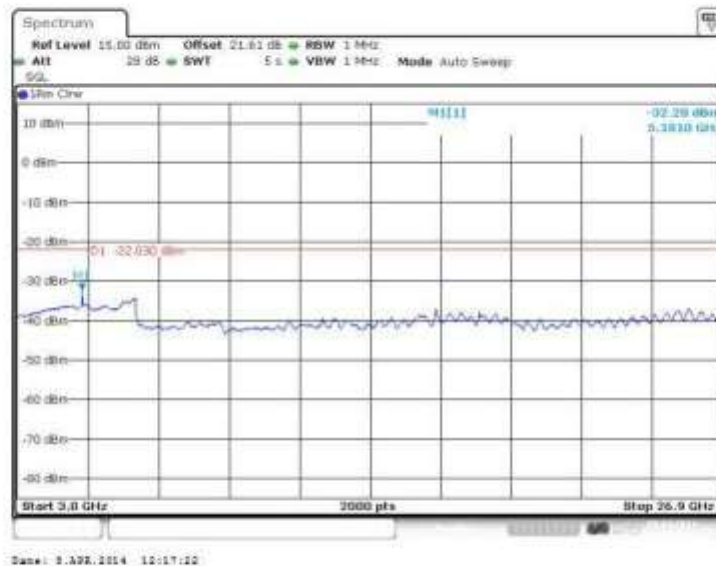


Figure 162 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2583.0/2603.0 MHz) (20MHz Channel BW)

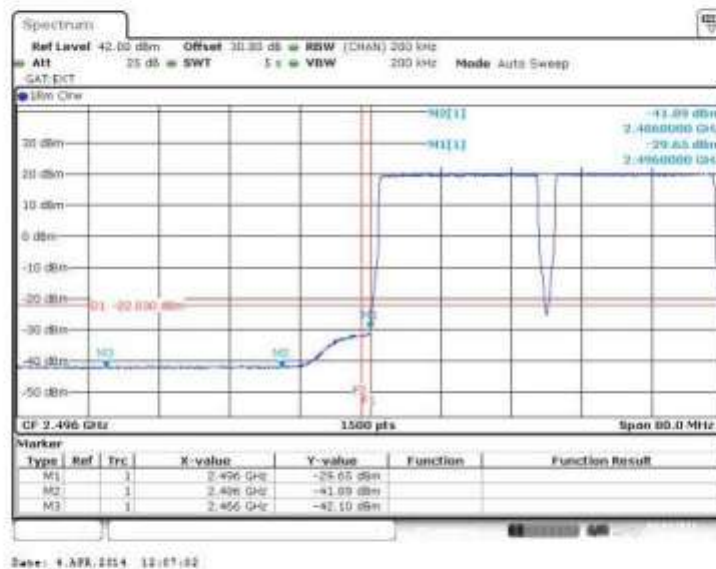


Figure 163 Spurious Emissions (Lower Band Edge) – 64QAM (2506.0/2526.0 MHz) (20MHz Channel BW)



Product Service

FCC ID:
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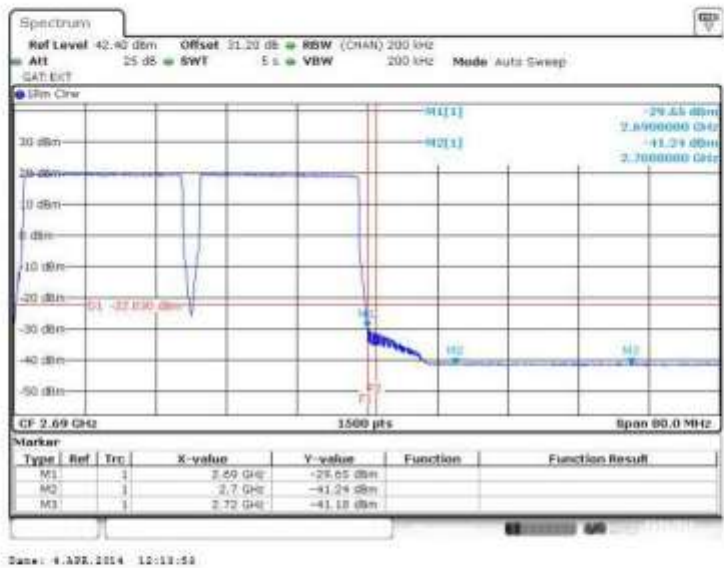


Figure 164 Spurious Emissions (Upper Band Edge) – 64QAM (2660.0/2680.0 MHz) (20MHz Channel BW)

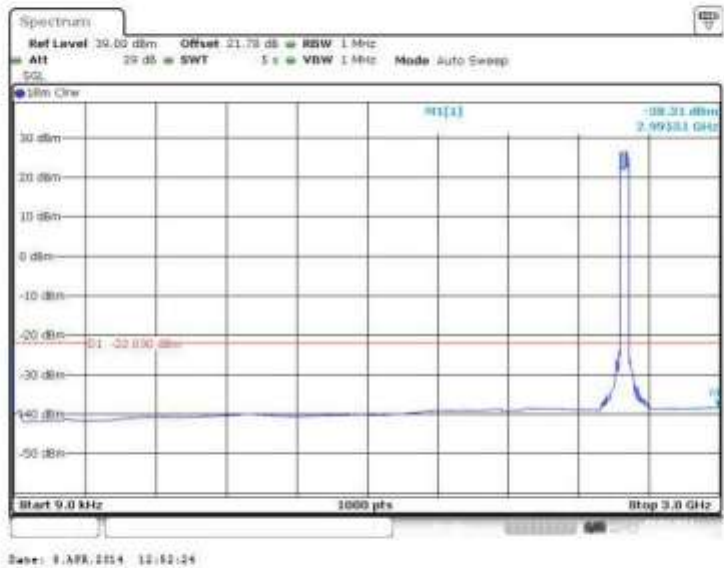


Figure 165 Spurious Emissions (9kHz – 3GHz) – 64QAM (2583.0/2603.0 MHz) (20MHz Channel BW)