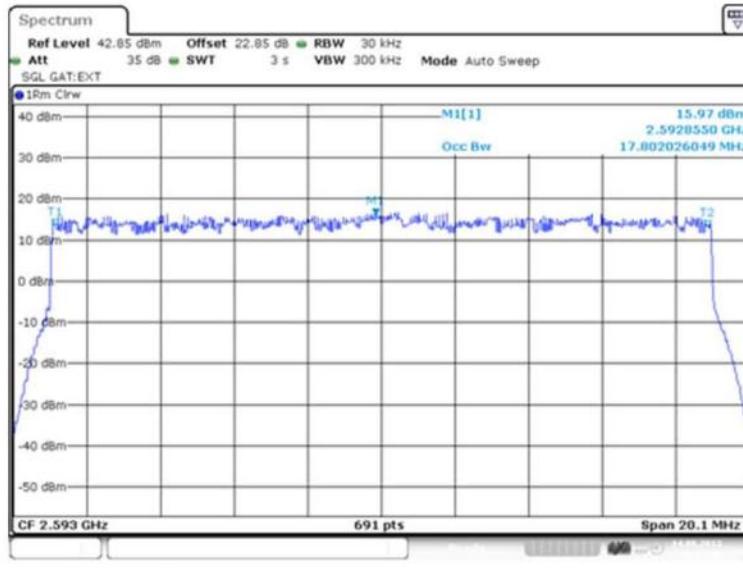




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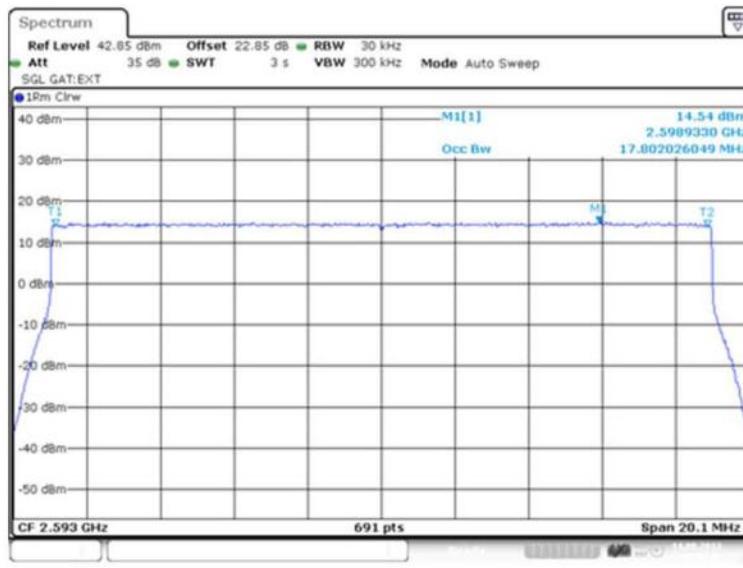
FCC ID:
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Date: 14.AUG.2013 09:13:16

Figure 108 Occupied Bandwidth – 16QAM (2593.0 MHz) (20MHz Channel BW)



Date: 14.AUG.2013 09:53:10

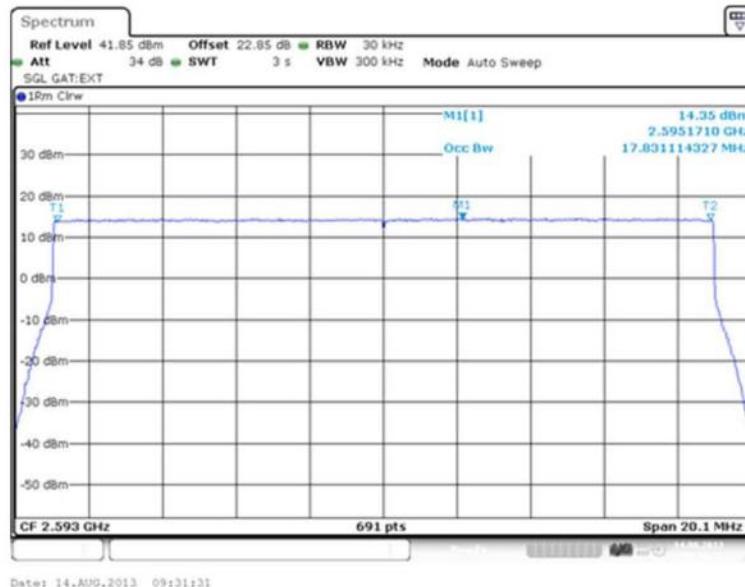
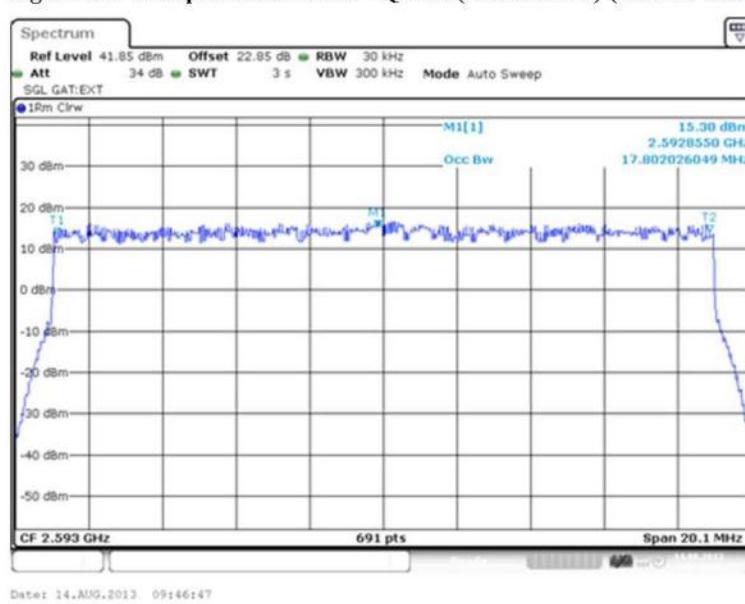
Figure 109 Occupied Bandwidth – 64QAM (2593.0 MHz) (20MHz Channel BW)



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Config B ANT8:**Figure 110 Occupied Bandwidth – QPSK (2593.0 MHz) (20MHz Channel BW)****Figure 111 Occupied Bandwidth – 16QAM (2593.0 MHz) (20MHz Channel BW)**



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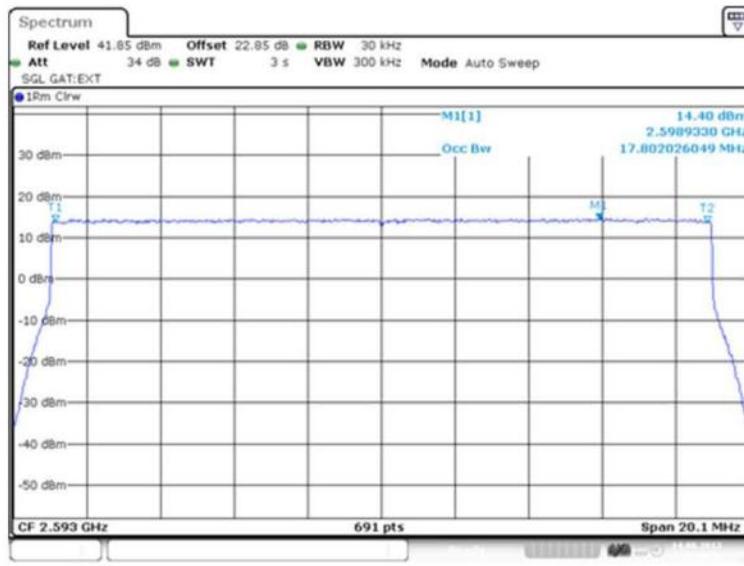


Figure 112 Occupied Bandwidth – 64QAM (2593.0 MHz) (20MHz Channel BW)



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5.2.3. Test No. 4: Spurious Emissions at the Antenna Terminals

The external attenuation (cable loss of the setup) can be seen as the ‘Offset’ value in the screenshots. The external attenuation is frequency dependant. Thus the various ‘Offset’ values in the screenshots may differ.

Config A ANT1:

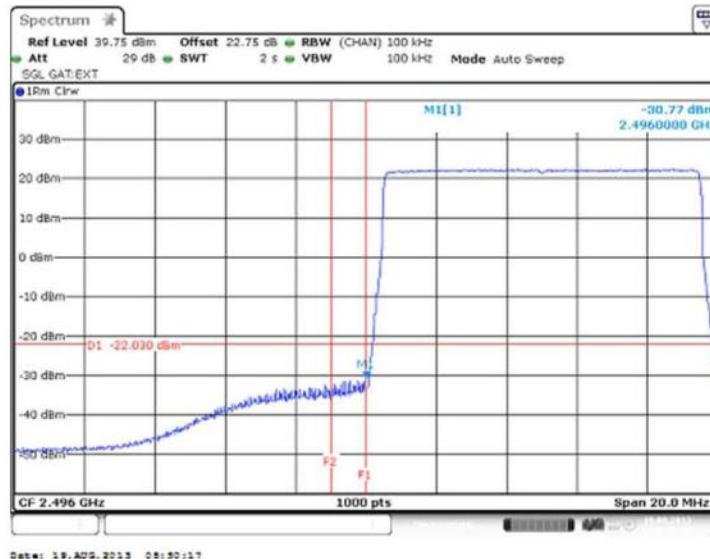


Figure 113 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



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Figure 114 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

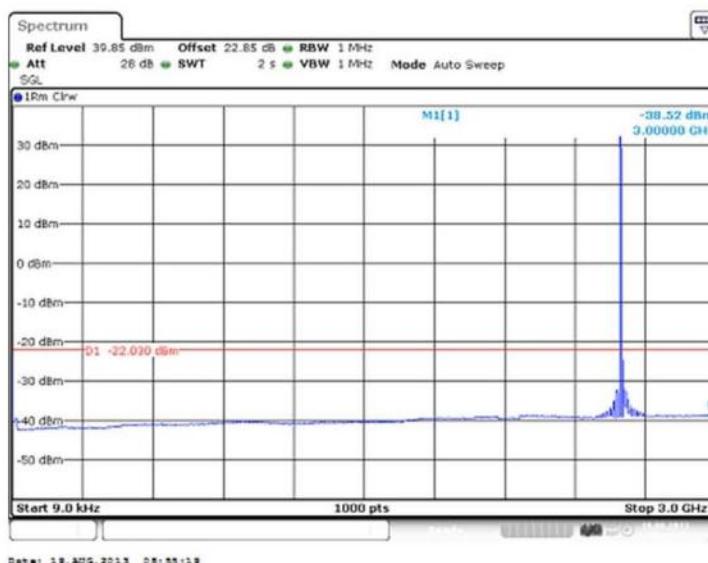


Figure 115 Figure 5 27: Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



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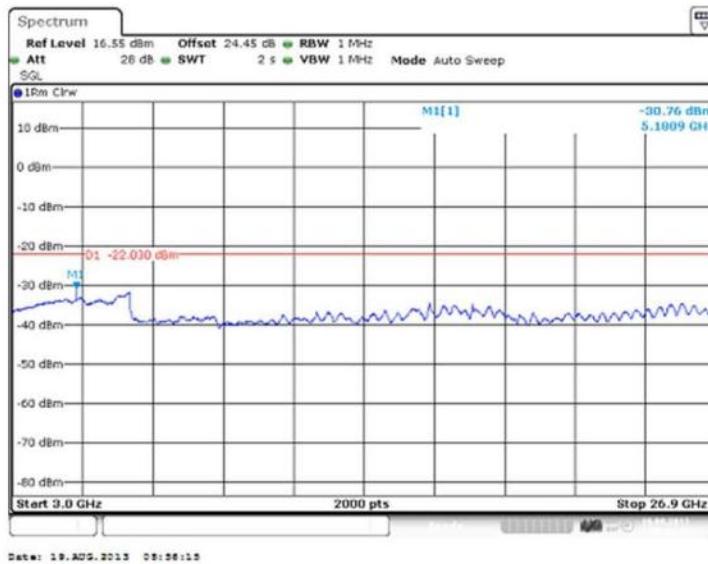


Figure 116 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)

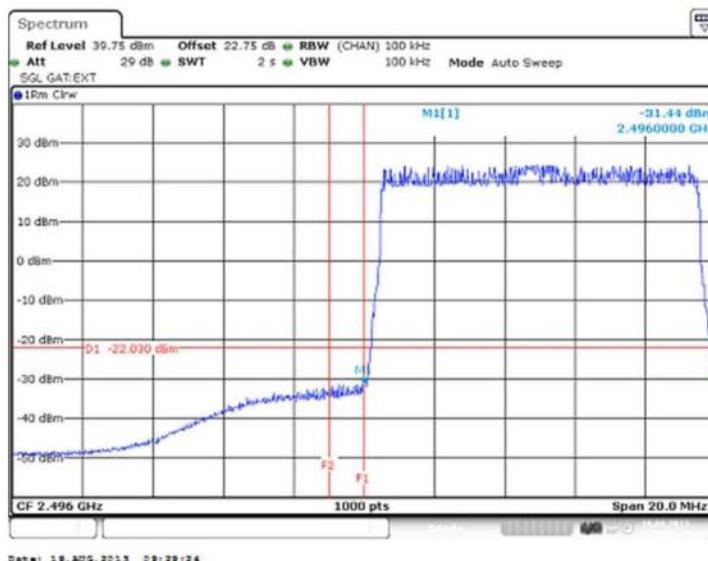


Figure 117 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz) (10MHz Channel BW)



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D502853116

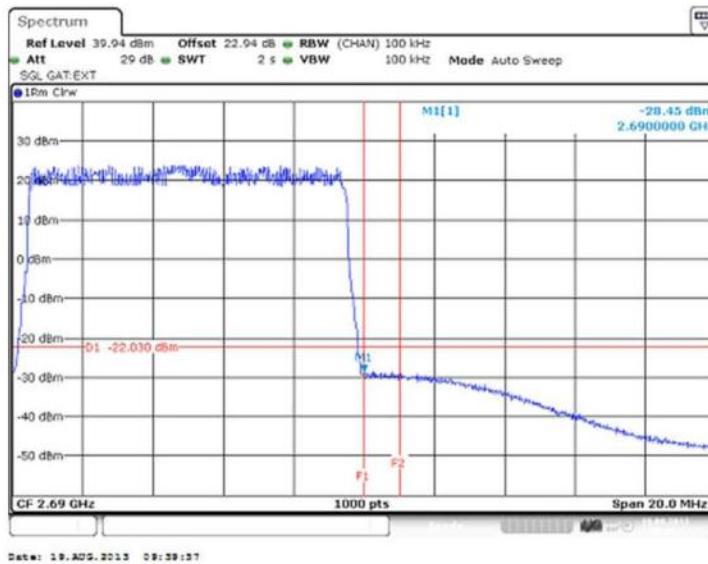


Figure 118 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz)
(10MHz Channel BW)

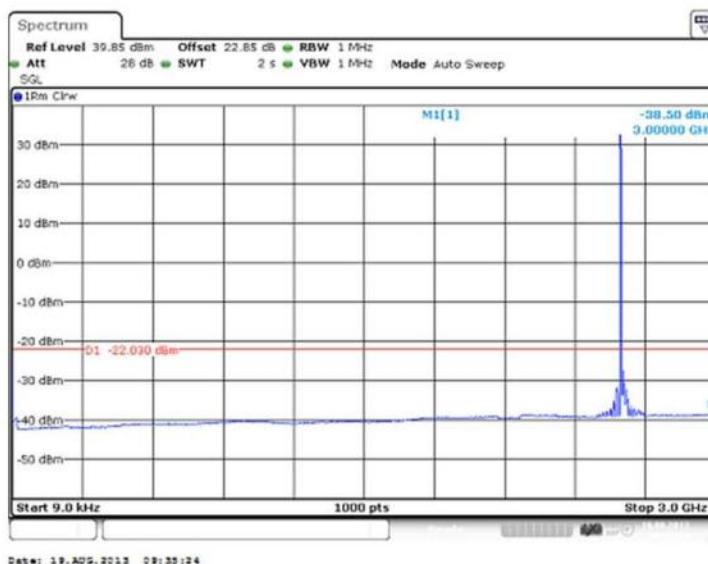


Figure 119 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz)
(10MHz Channel BW)



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D502853116

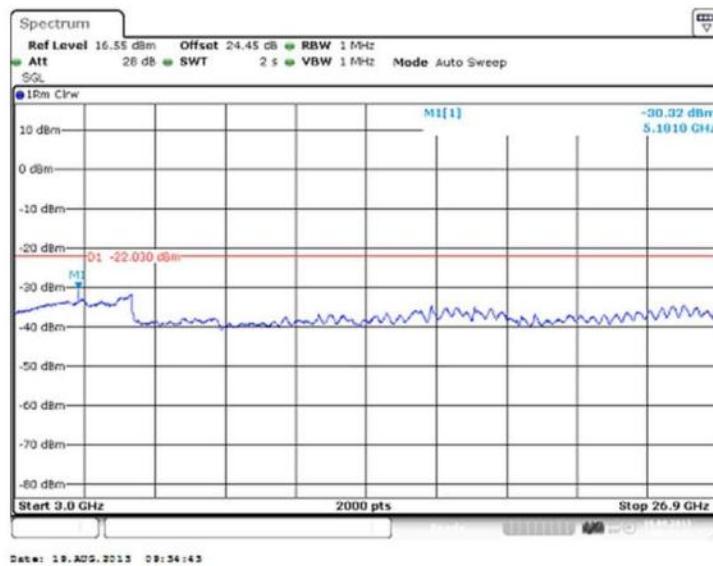


Figure 120 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

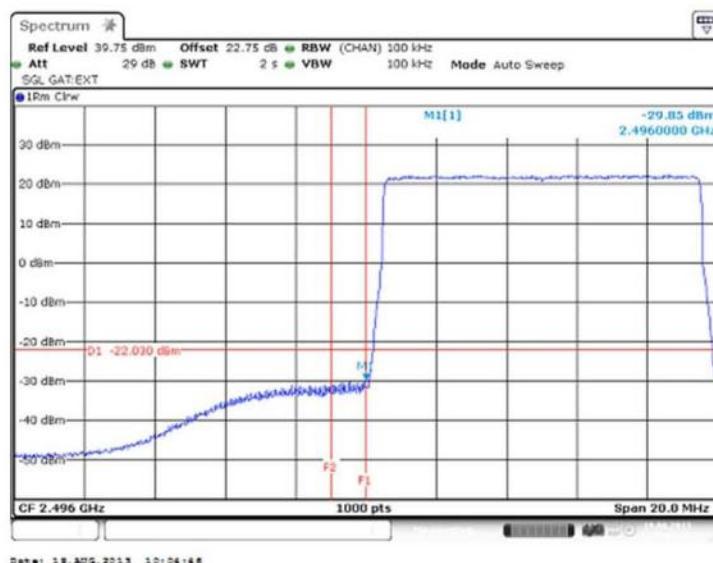


Figure 121 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



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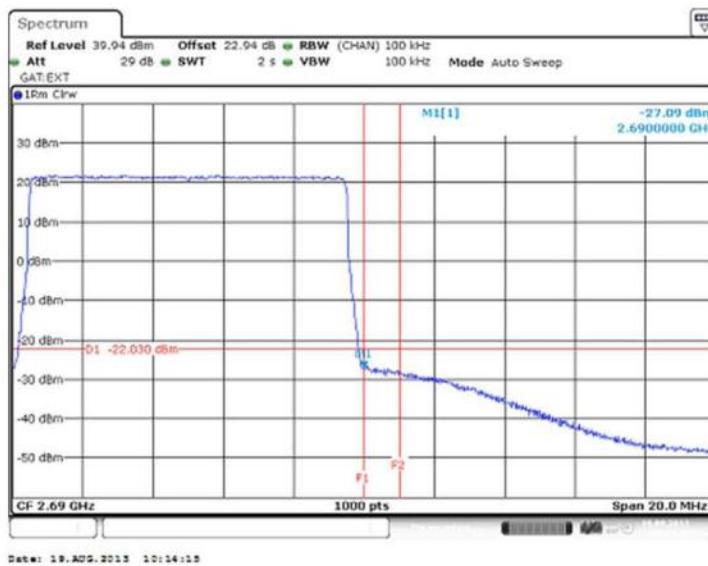


Figure 122 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz)
(10MHz Channel BW)

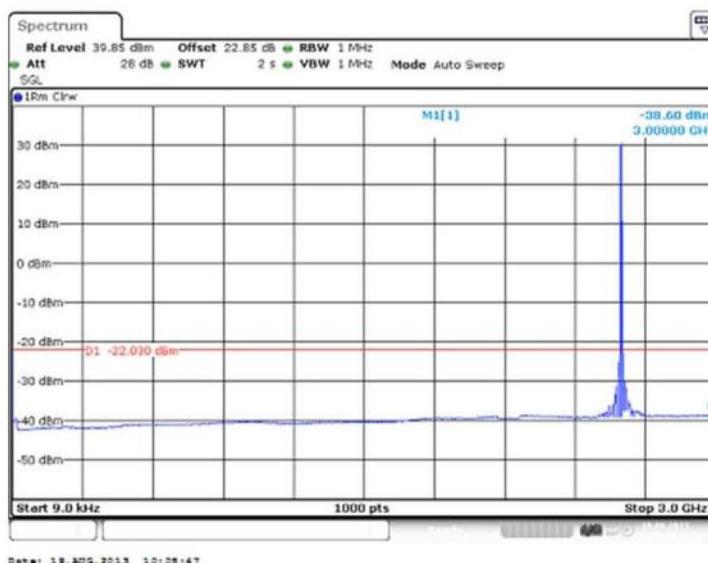


Figure 123 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz)
(10MHz Channel BW)



Product Service

FCC ID:
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D502853116

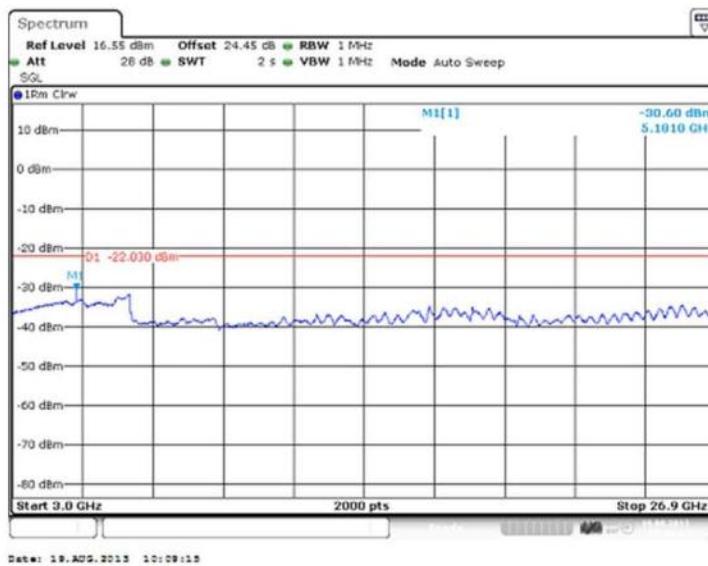


Figure 124 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)

Config A ANT2:

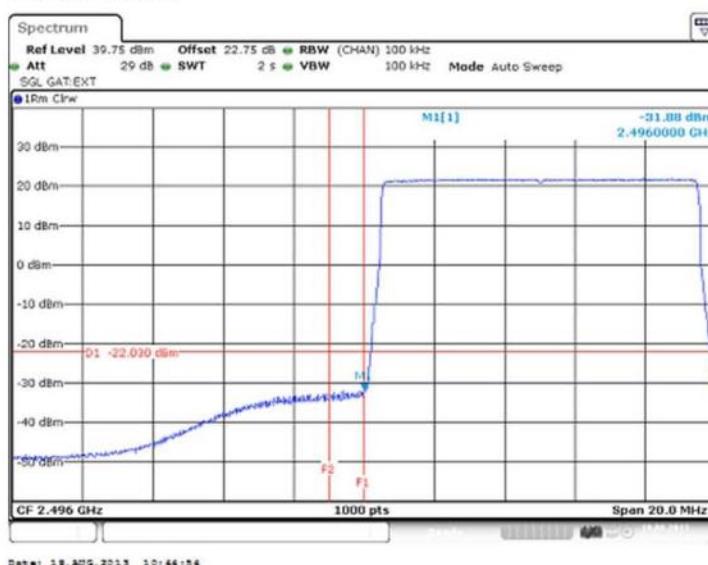


Figure 125 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



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Figure 126 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

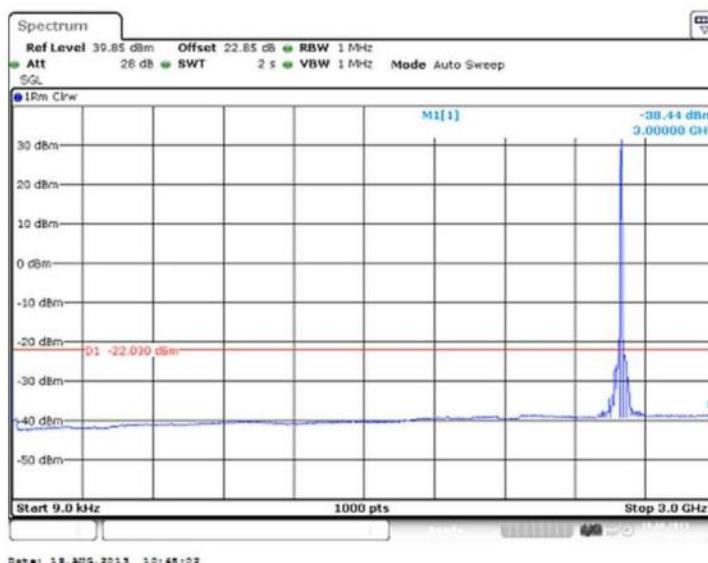


Figure 127 Figure 5 27: Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



Product Service

FCC ID:
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Test Report No:
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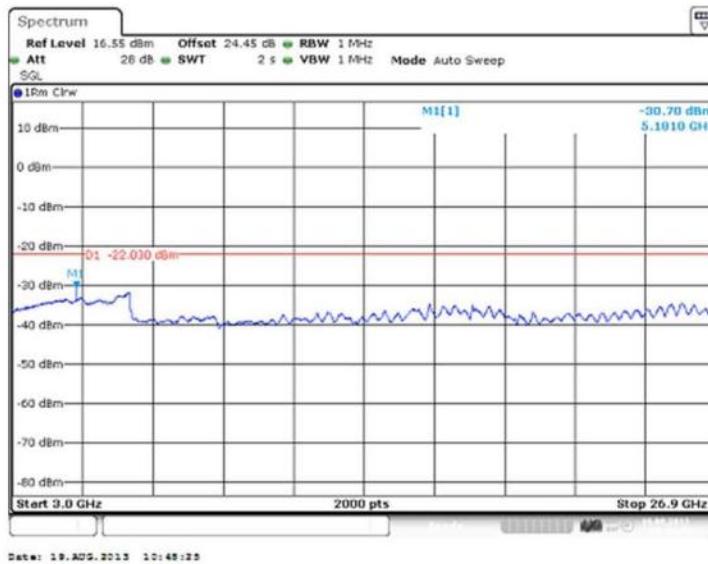


Figure 128 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)

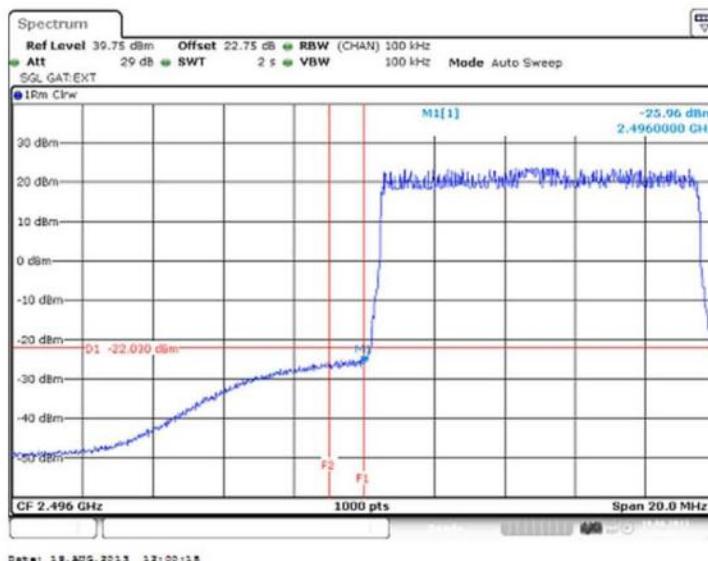


Figure 129 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz) (10MHz Channel BW)



Product Service

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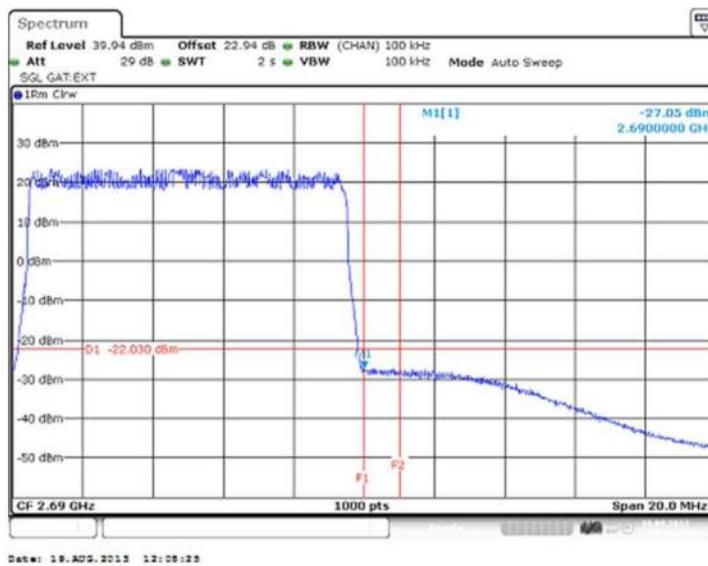


Figure 130 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz)
(10MHz Channel BW)

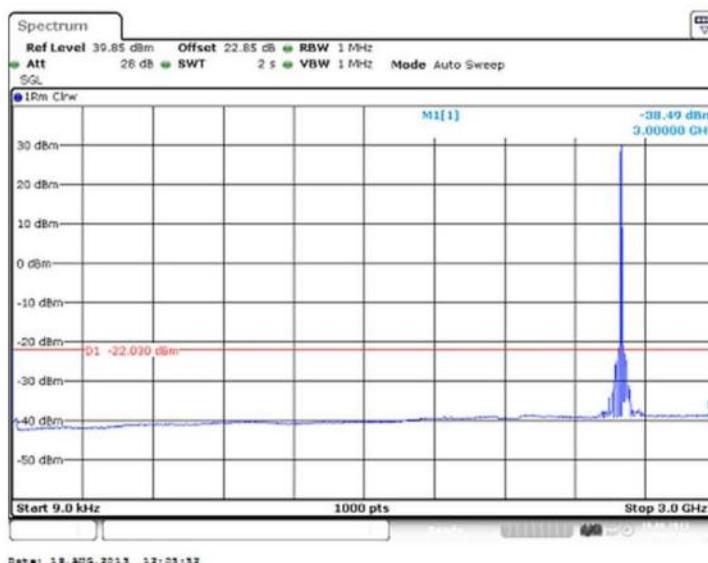


Figure 131 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz)
(10MHz Channel BW)



Product Service

FCC ID:
VBNFZHE-02

Test Report No:
D502853116

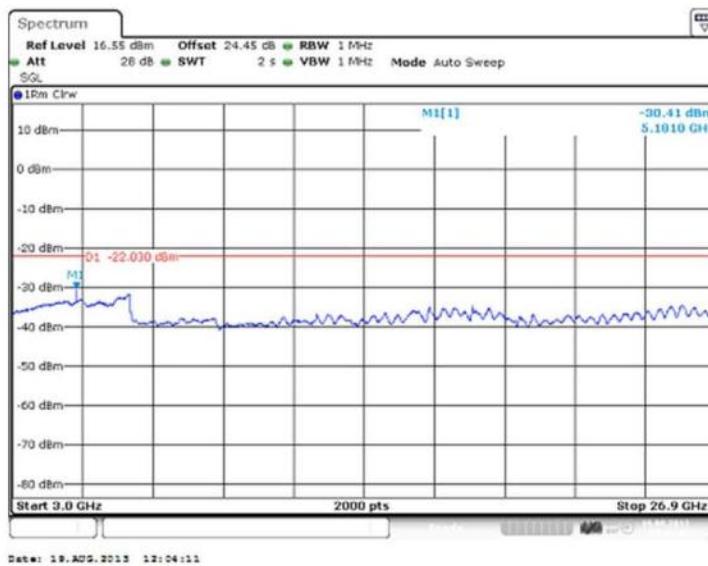


Figure 132 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

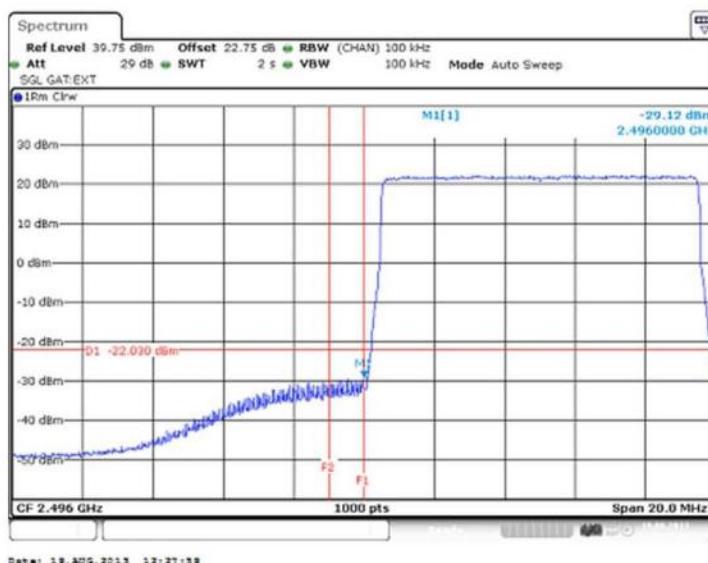


Figure 133 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



Product Service

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Figure 134 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz) (10MHz Channel BW)

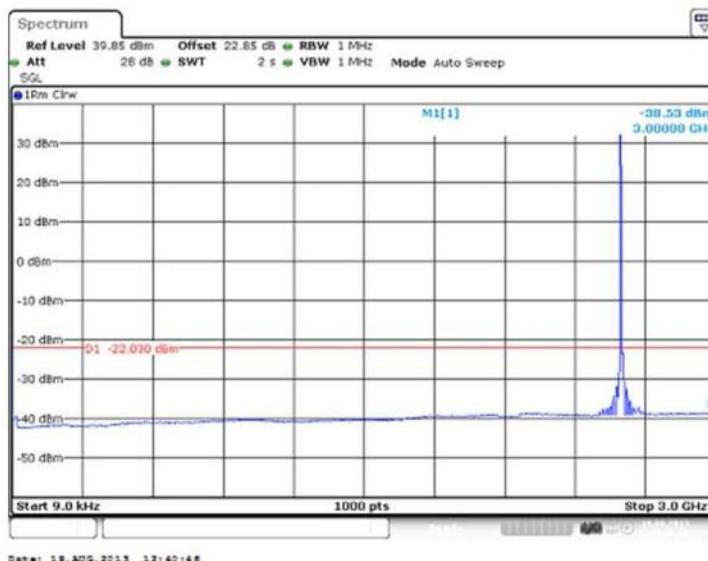


Figure 135 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)



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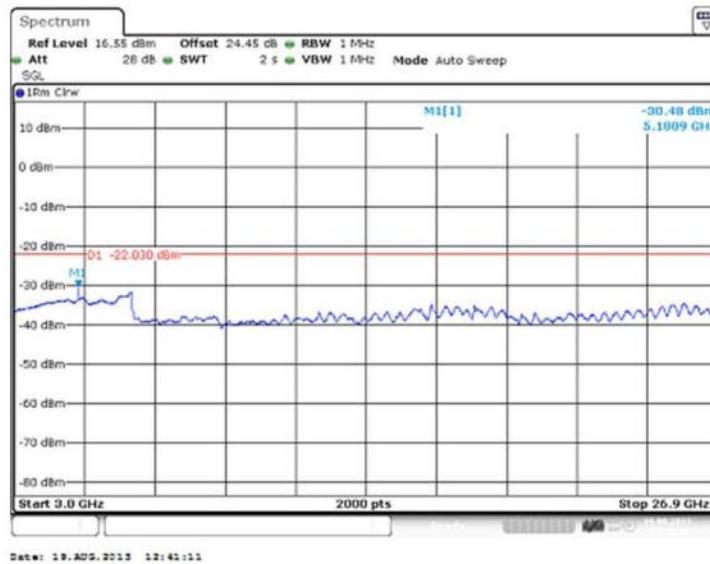


Figure 136 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)

Config A ANT3:

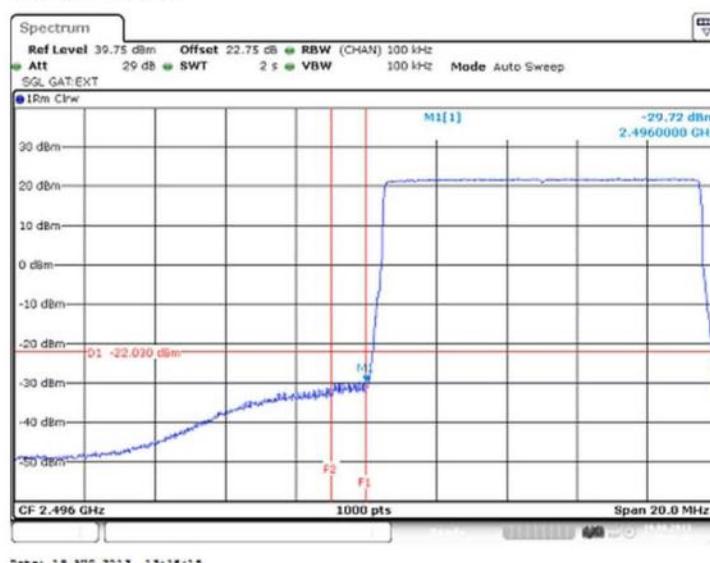


Figure 137 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



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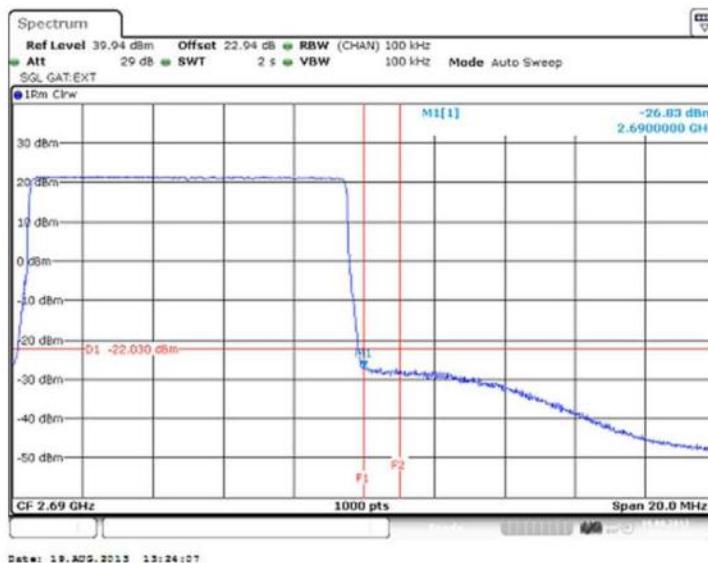


Figure 138 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

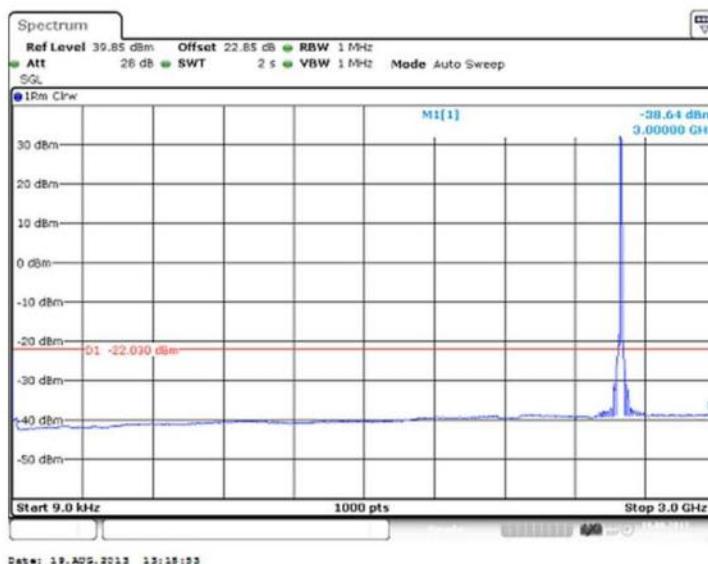


Figure 139 Figure 5 27: Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



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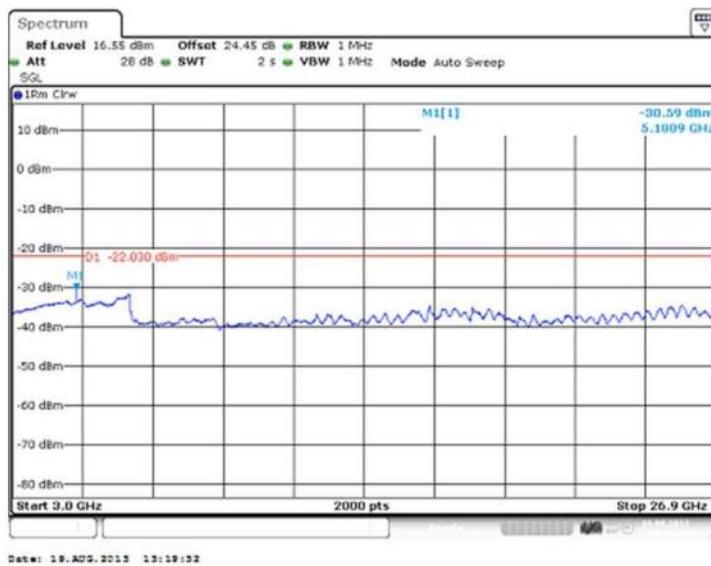


Figure 140 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)

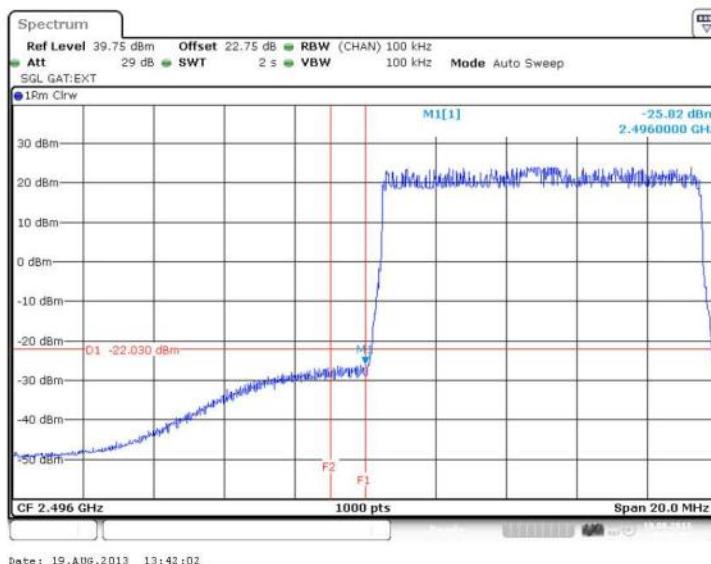


Figure 141 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz) (10MHz Channel BW)



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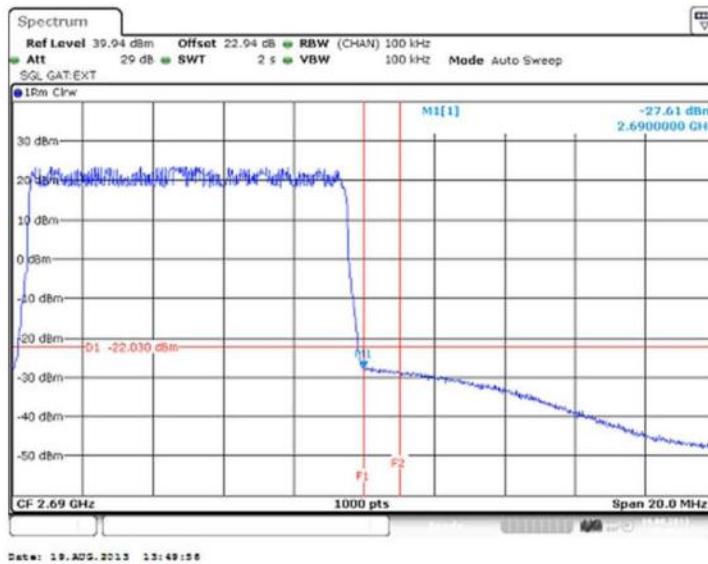


Figure 142 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz) (10MHz Channel BW)

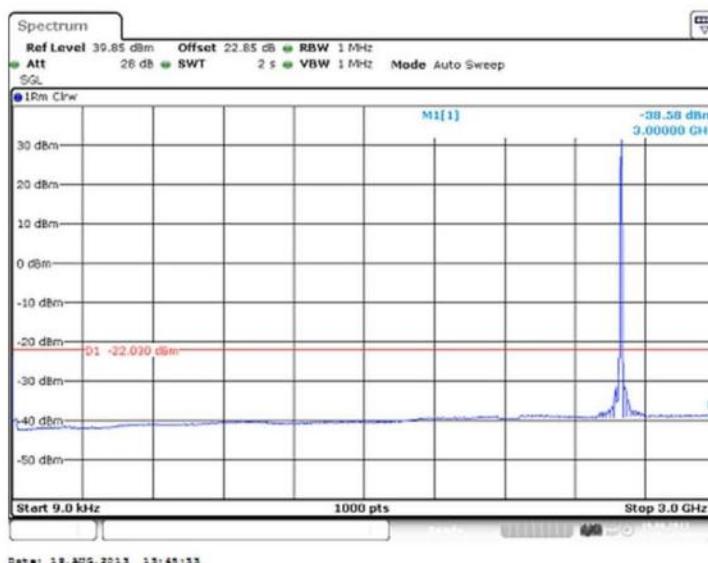


Figure 143 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)



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FCC ID:
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D502853116

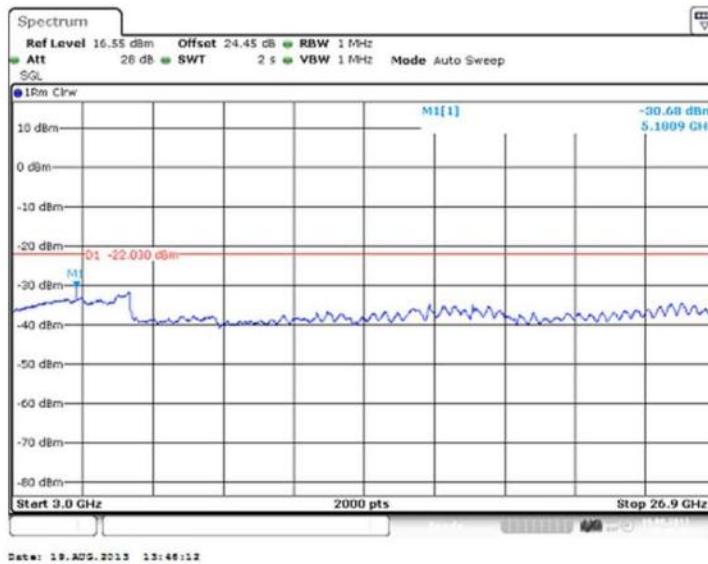


Figure 144 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

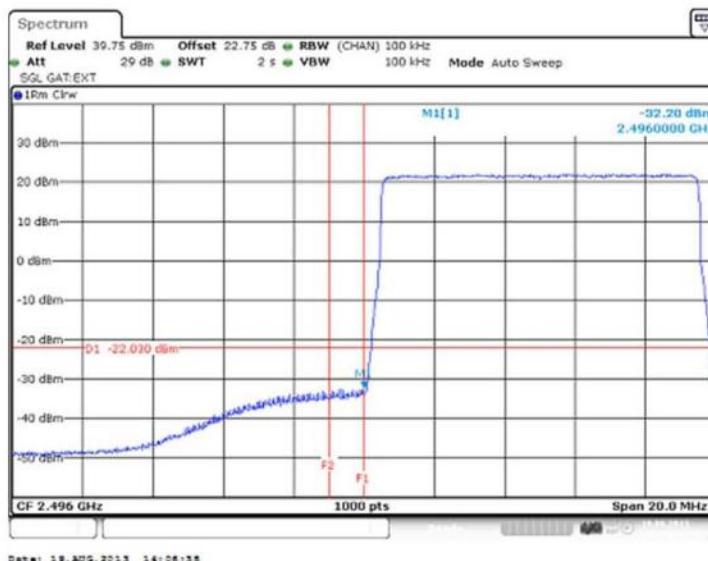


Figure 145 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



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Figure 146 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz) (10MHz Channel BW)

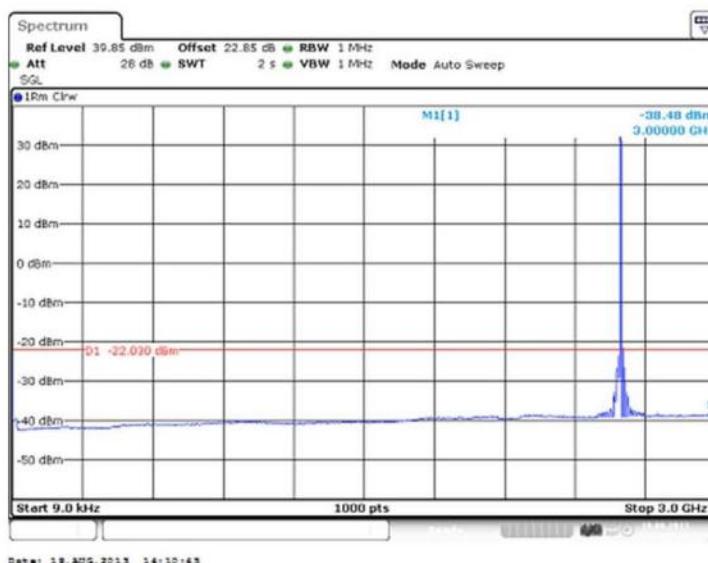


Figure 147 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)



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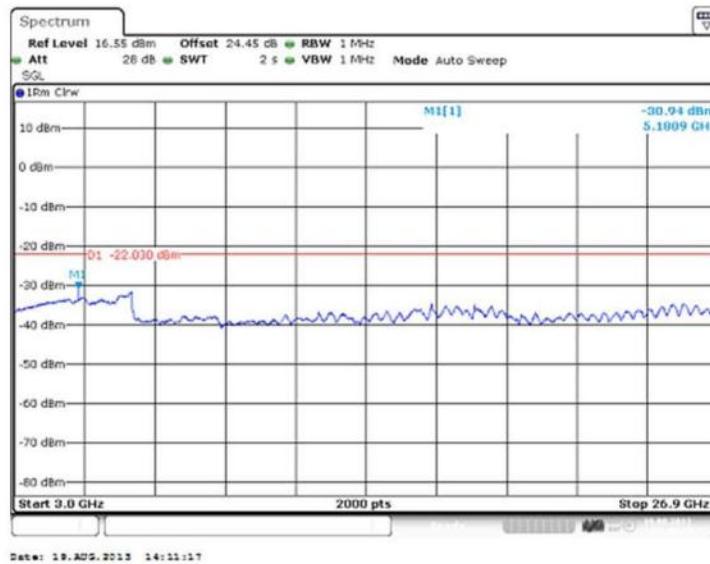


Figure 148 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)

Config A ANT4:

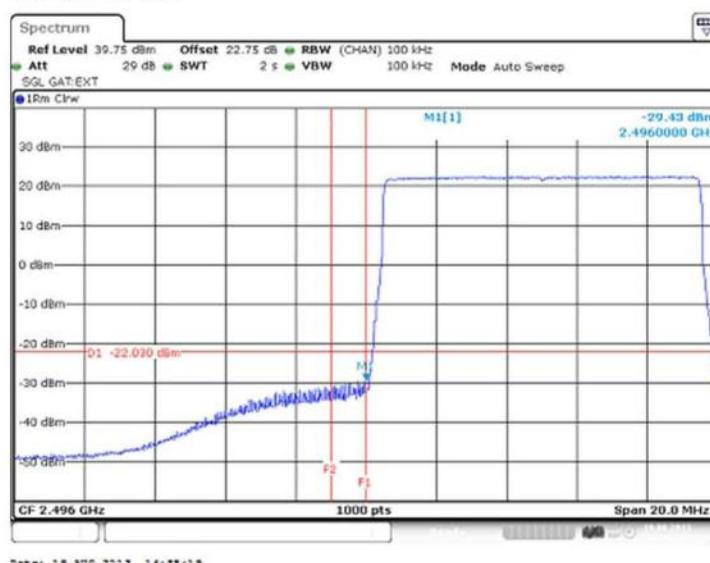


Figure 149 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



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Figure 150 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

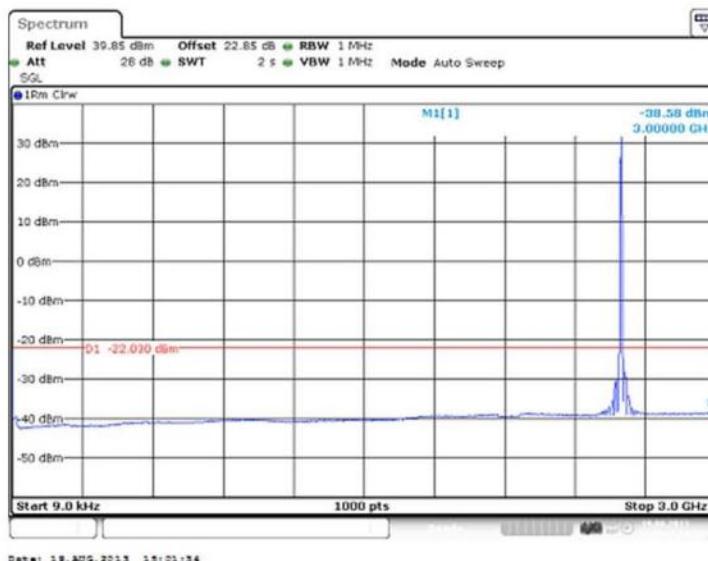


Figure 151 Figure 5 27: Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



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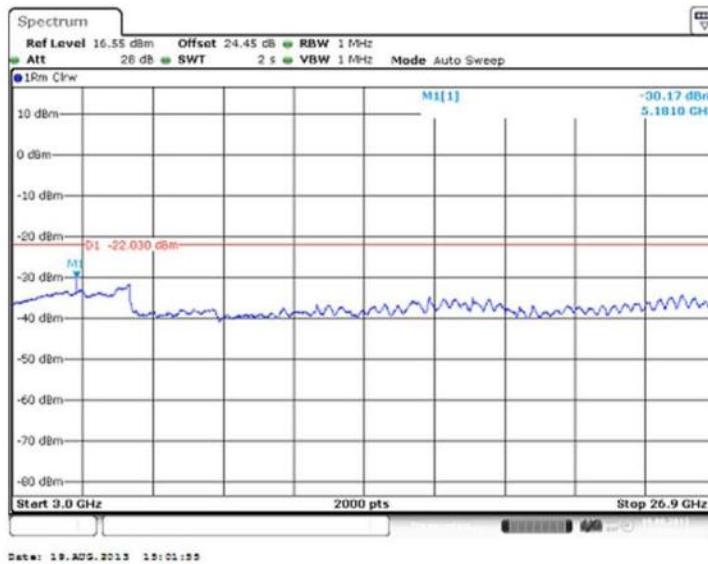


Figure 152 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)

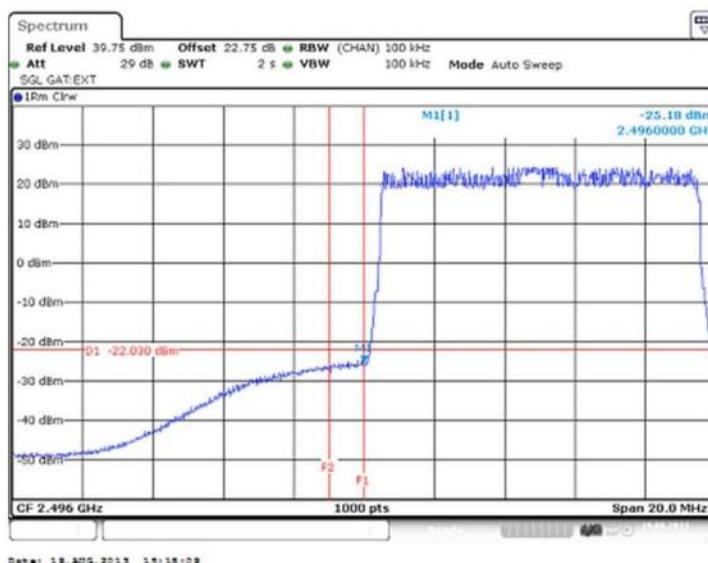


Figure 153 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz) (10MHz Channel BW)



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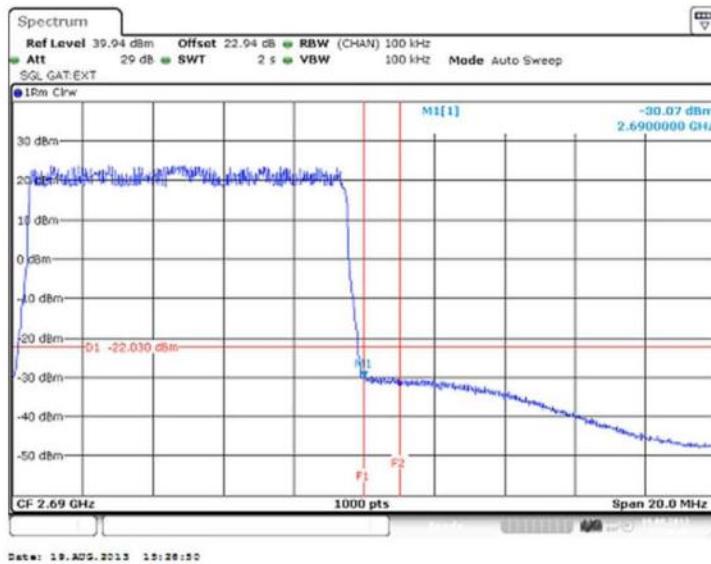


Figure 154 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz) (10MHz Channel BW)

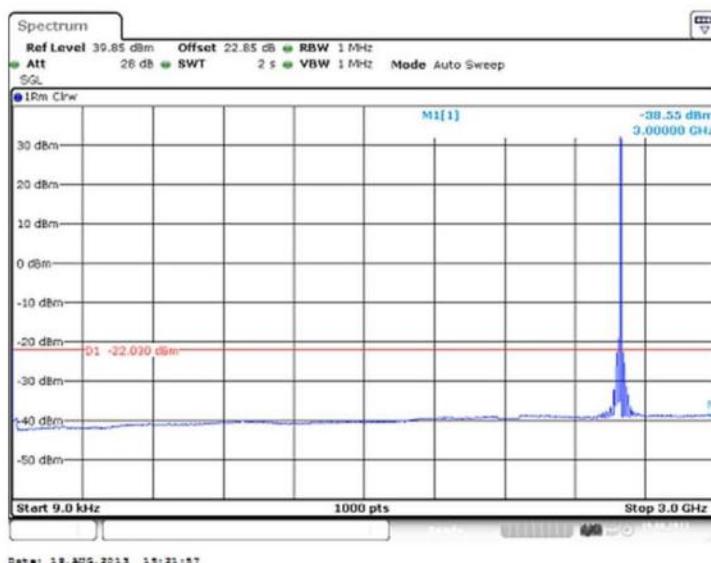


Figure 155 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)



Product Service

FCC ID:
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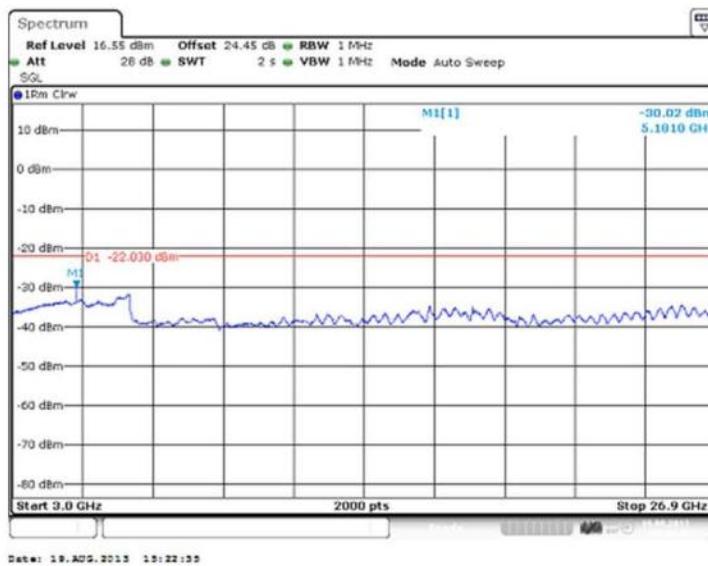


Figure 156 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

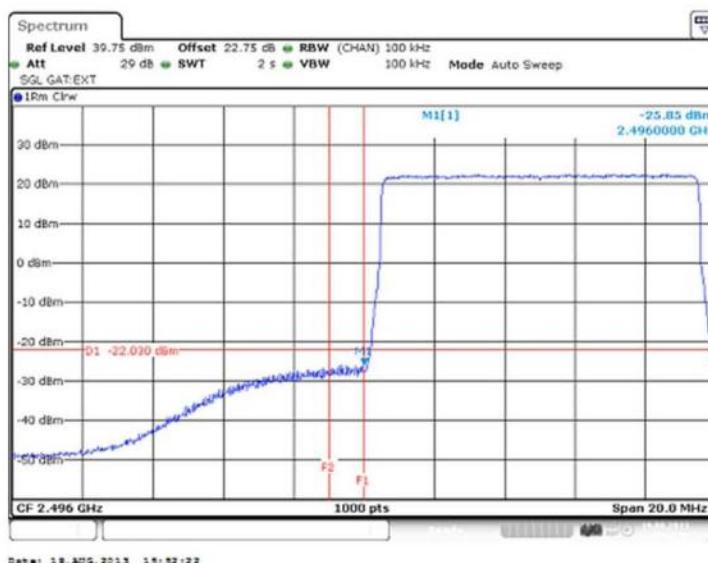


Figure 157 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



Product Service

FCC ID:
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Test Report No:
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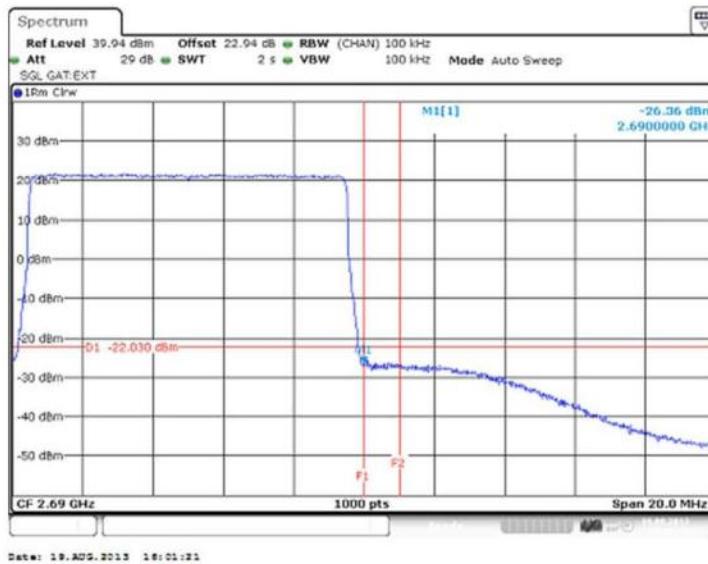


Figure 158 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz)
(10MHz Channel BW)

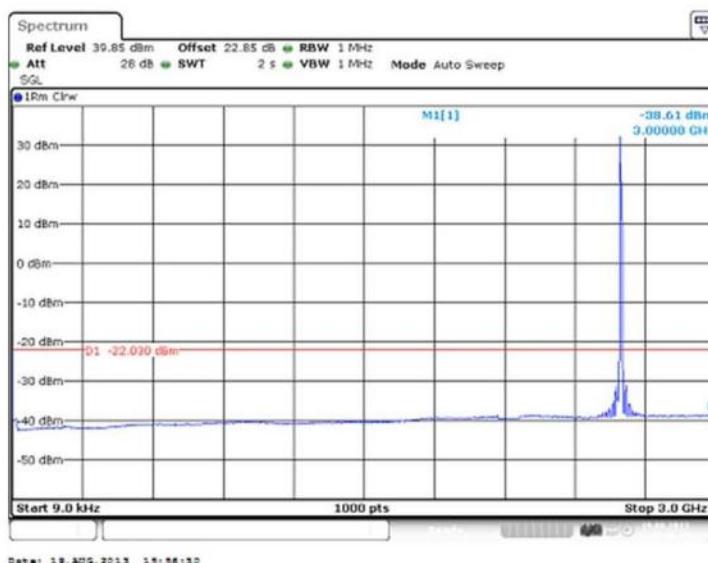


Figure 159 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz)
(10MHz Channel BW)



Product Service

FCC ID:
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Test Report No:
D502853116

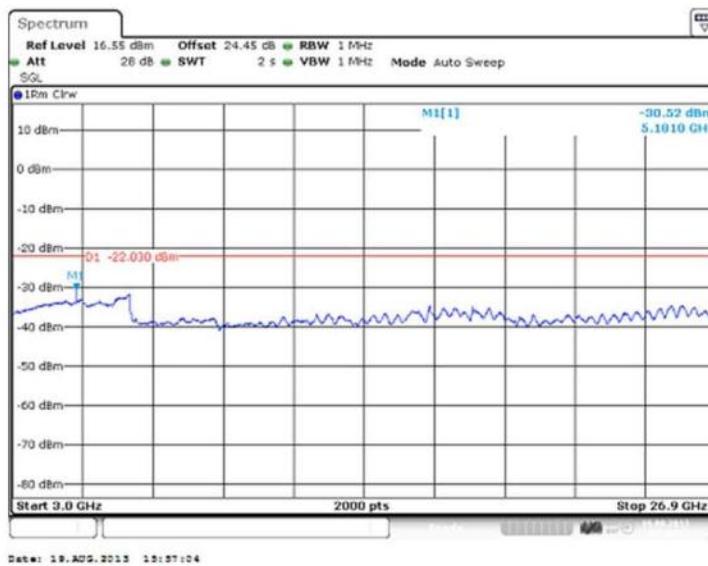


Figure 160 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)

Config A ANT5:

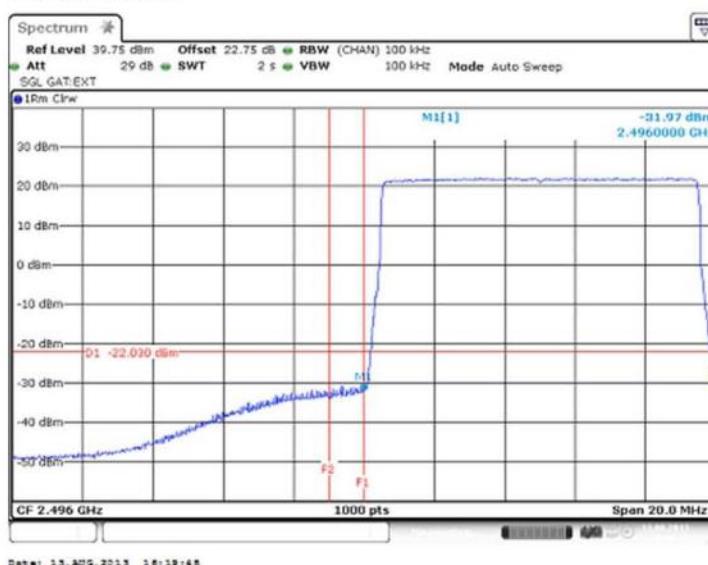


Figure 161 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



Product Service

FCC ID:
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Test Report No:
D502853116

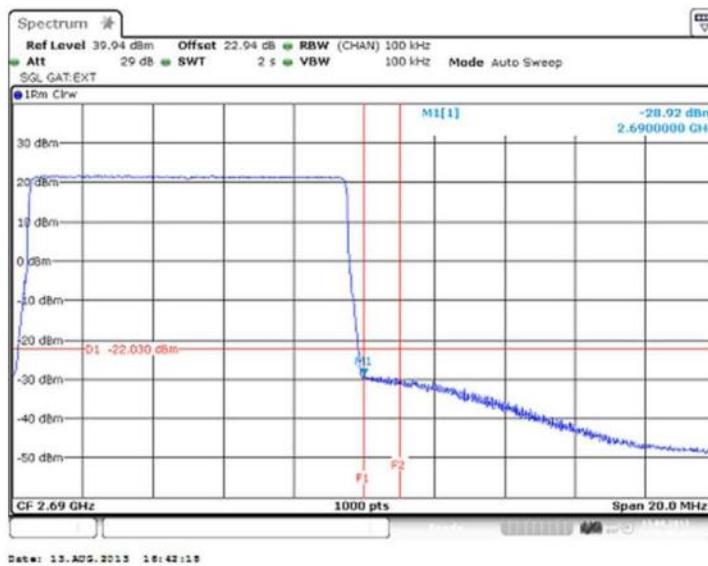


Figure 162 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

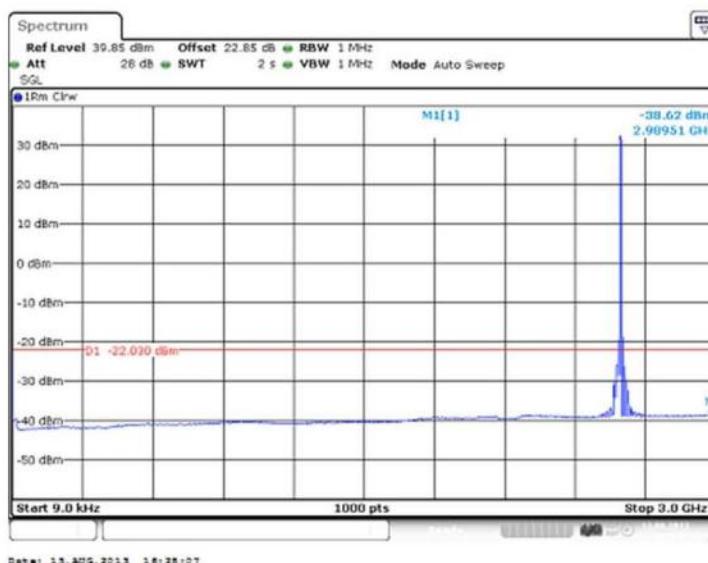


Figure 163 Figure 5 27: Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



Product Service

FCC ID:
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Test Report No:
D502853116

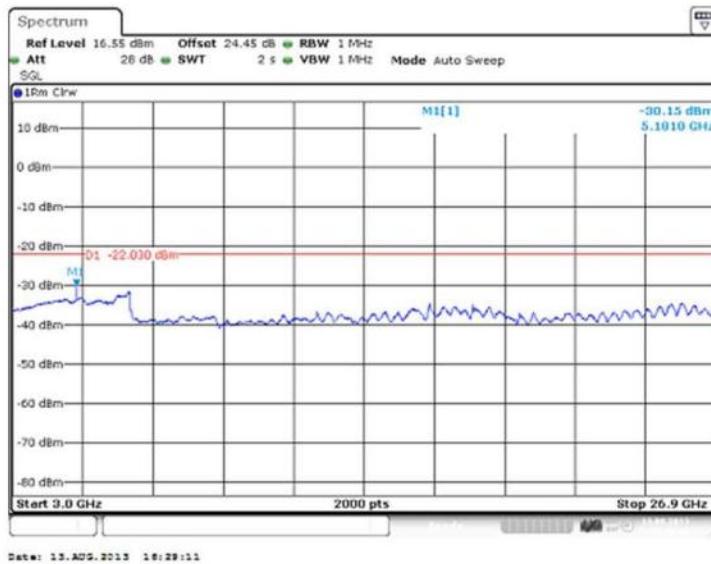


Figure 164 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)

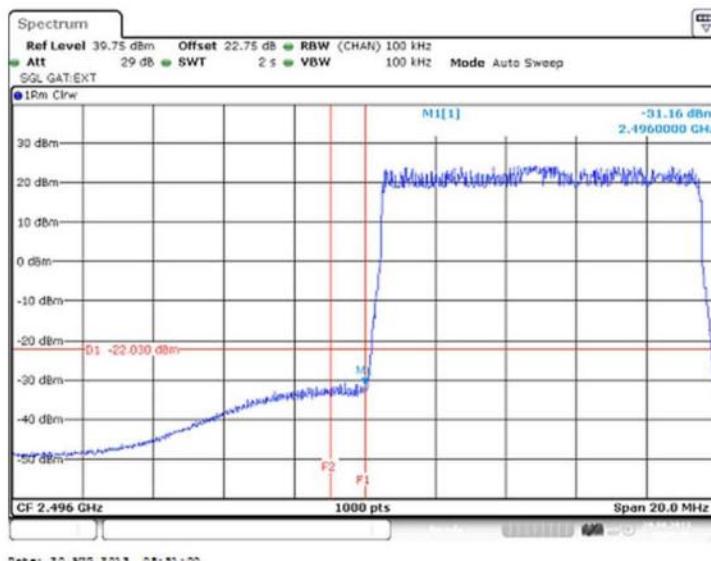


Figure 165 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz) (10MHz Channel BW)



Product Service

FCC ID:
VBNFZHE-02

Test Report No:
D502853116

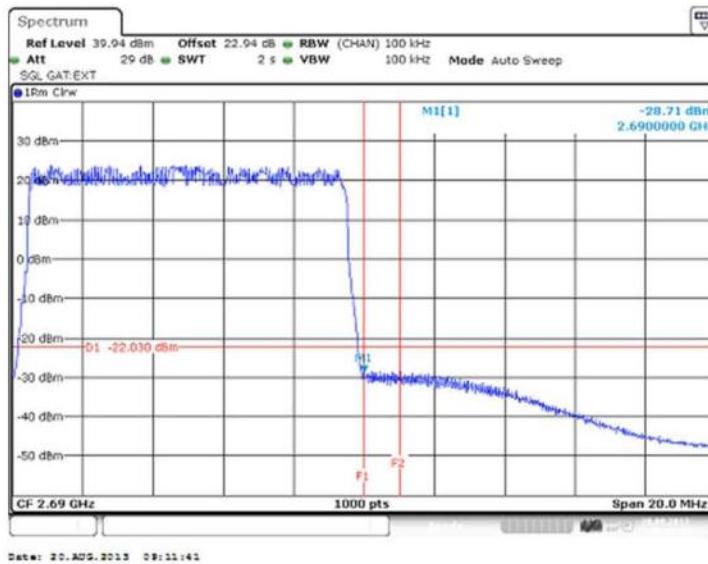


Figure 166 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz)
(10MHz Channel BW)

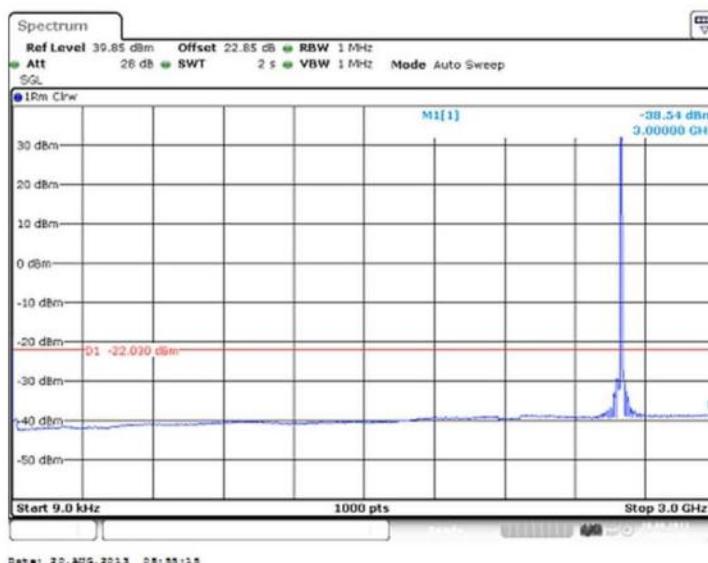


Figure 167 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz)
(10MHz Channel BW)



Product Service

FCC ID:
VBNFZHE-02

Test Report No:
D502853116

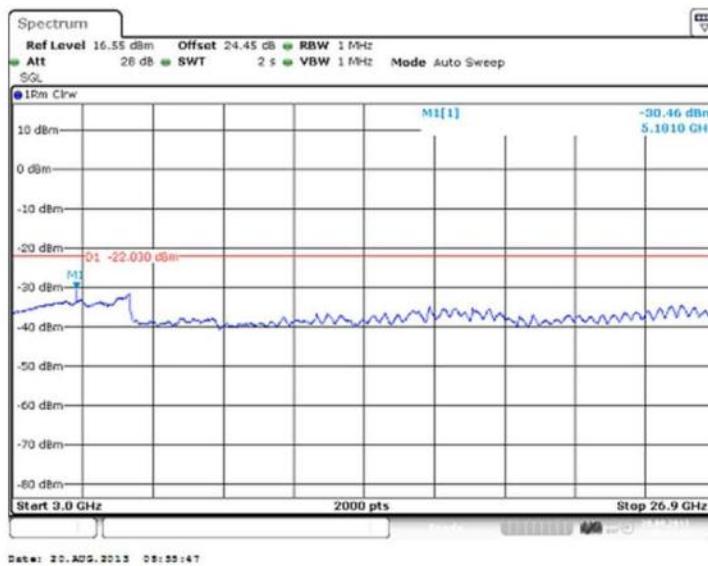


Figure 168 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

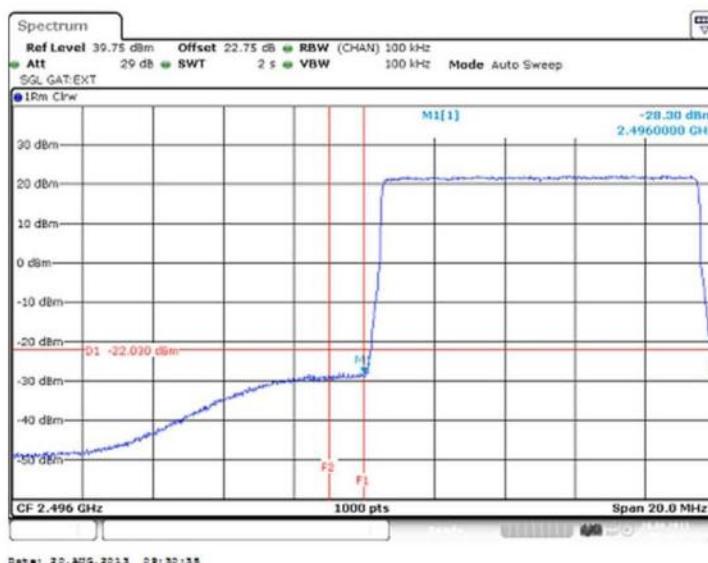


Figure 169 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



Product Service

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Figure 170 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz)
(10MHz Channel BW)

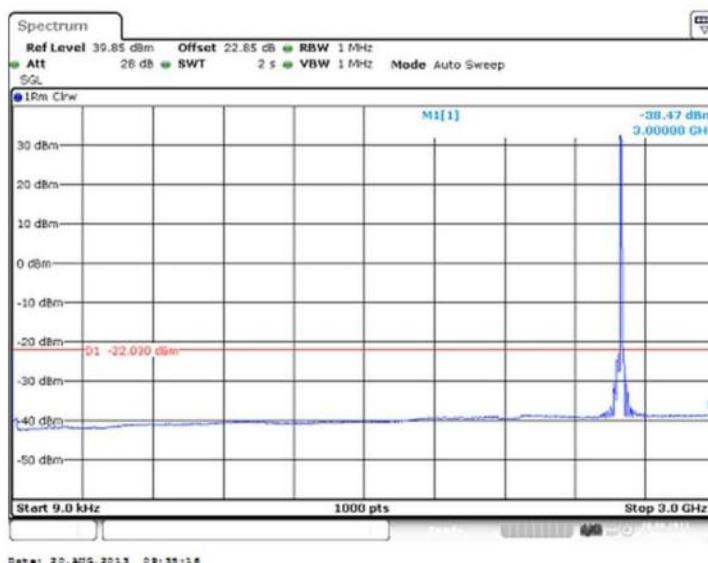


Figure 171 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz)
(10MHz Channel BW)



Product Service

FCC ID:
VBNFZHE-02

Test Report No:
D502853116

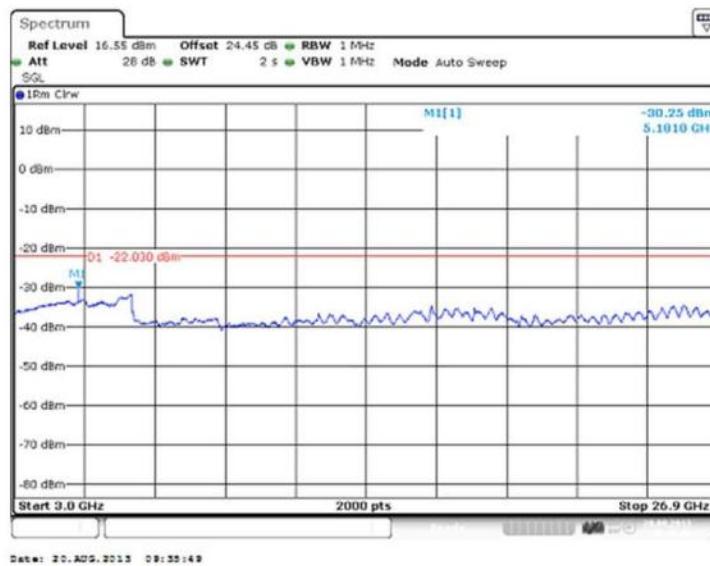


Figure 172 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)

Config A ANT6:

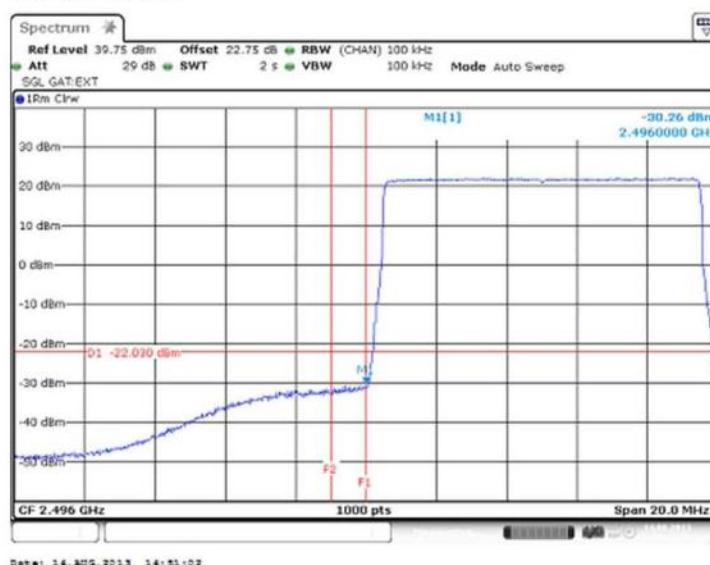


Figure 173 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



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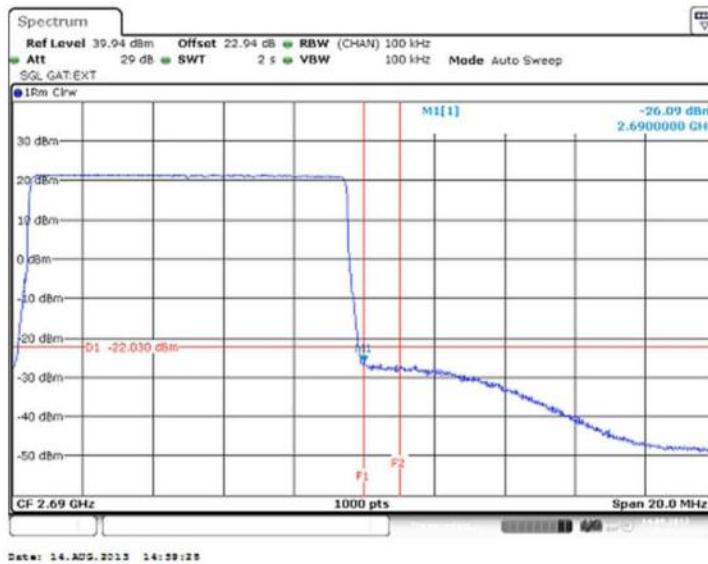


Figure 174 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

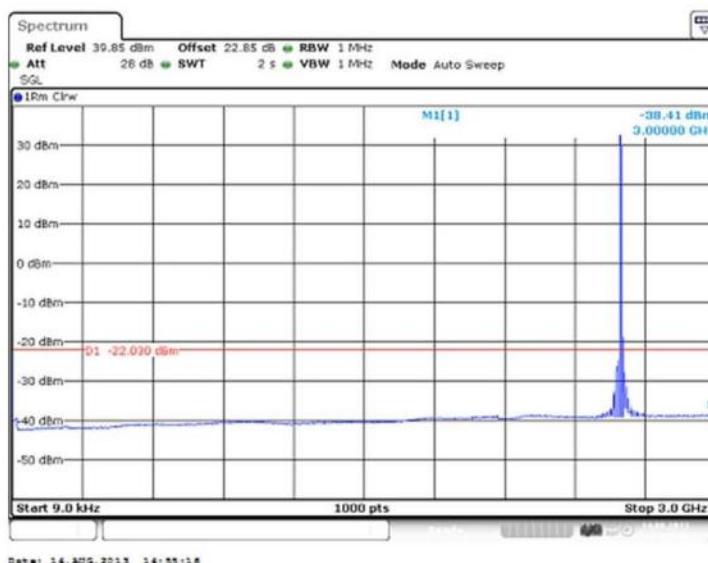


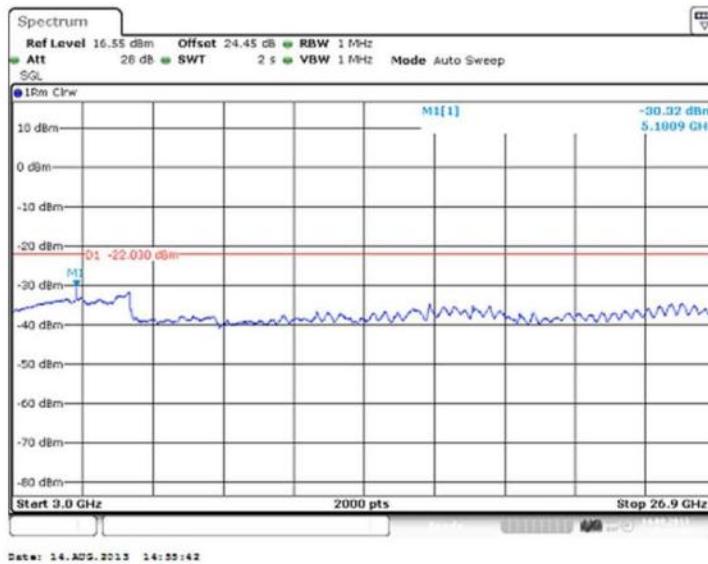
Figure 175 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



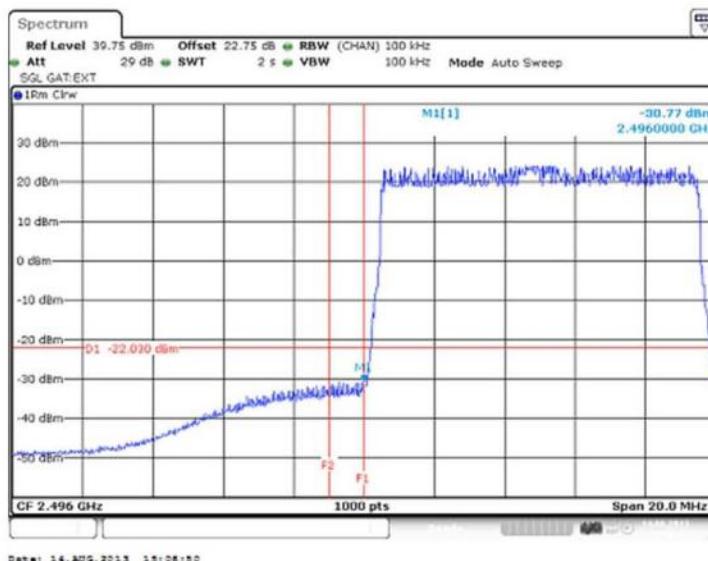
Product Service

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**Figure 176 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(10MHz Channel BW)**



**Figure 177 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz)
(10MHz Channel BW)**



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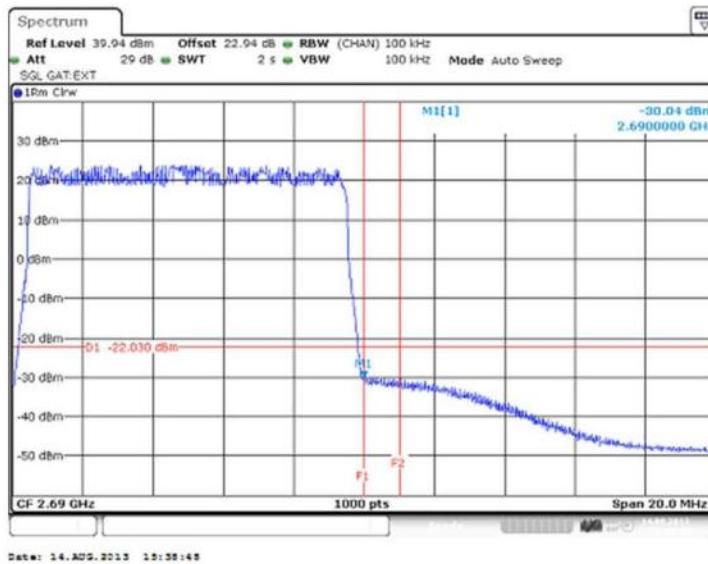


Figure 178 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz)
(10MHz Channel BW)

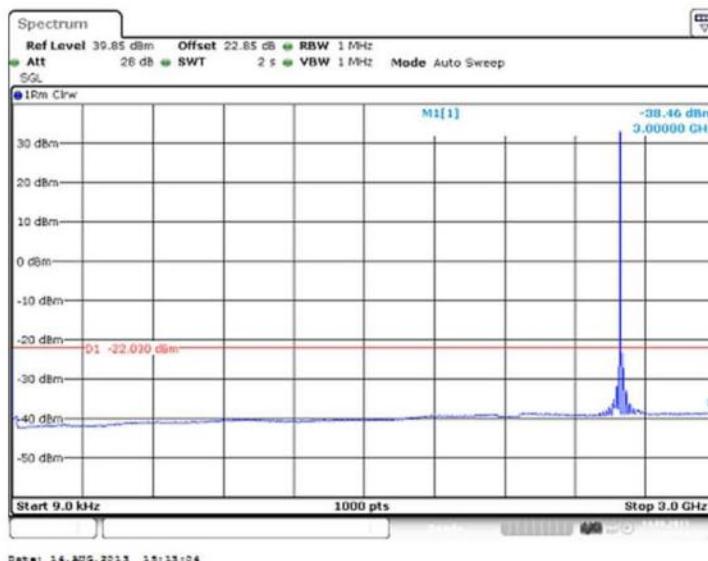


Figure 179 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz)
(10MHz Channel BW)



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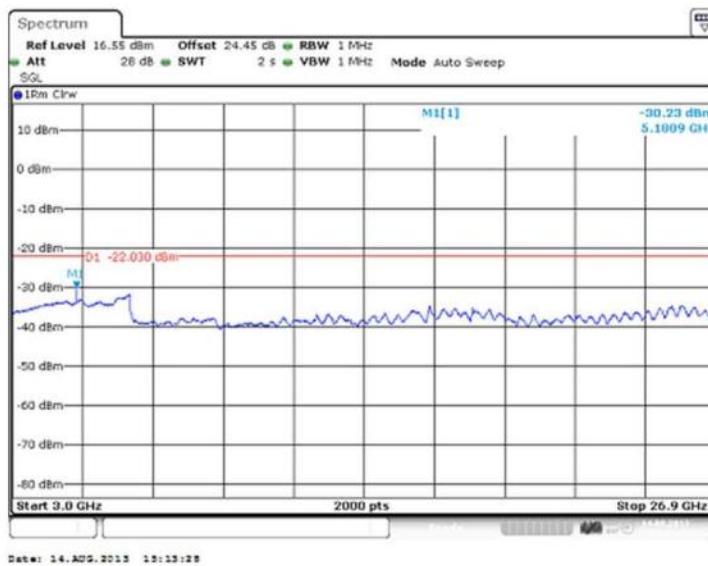


Figure 180 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

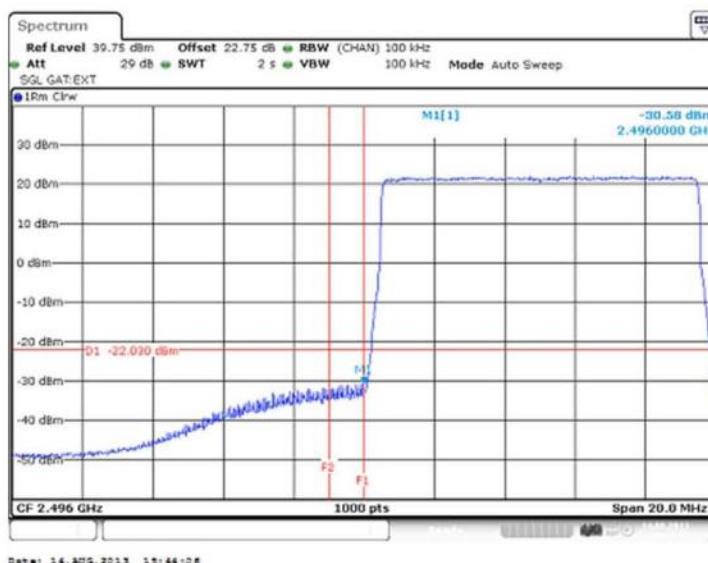


Figure 181 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



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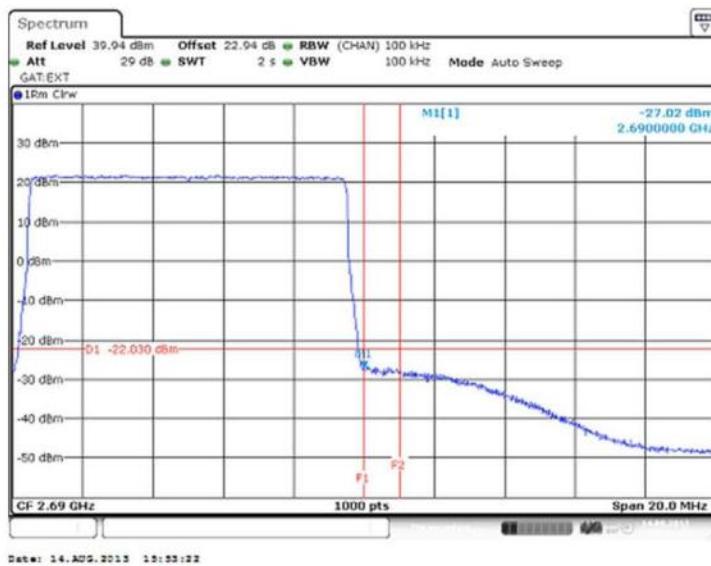


Figure 182 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz) (10MHz Channel BW)

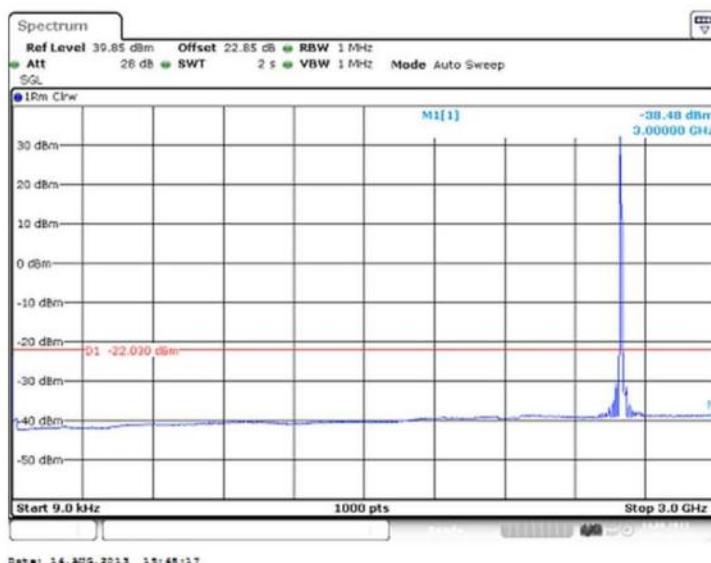


Figure 183 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)



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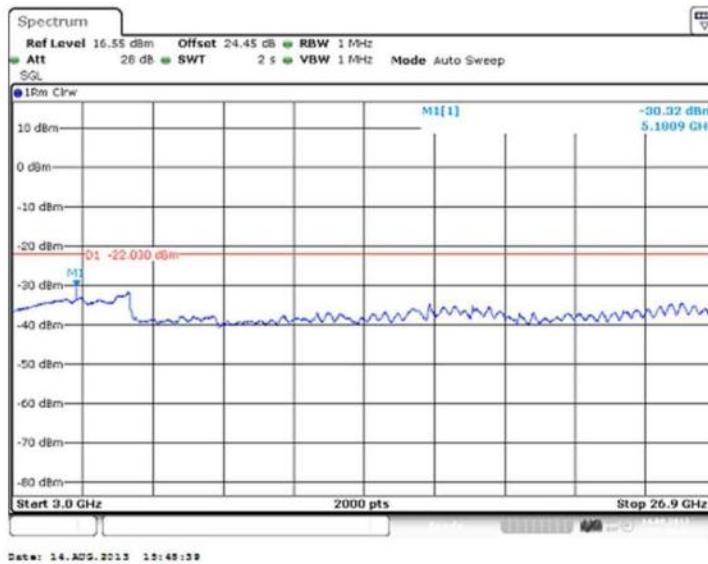


Figure 184 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)

Config A ANT7:

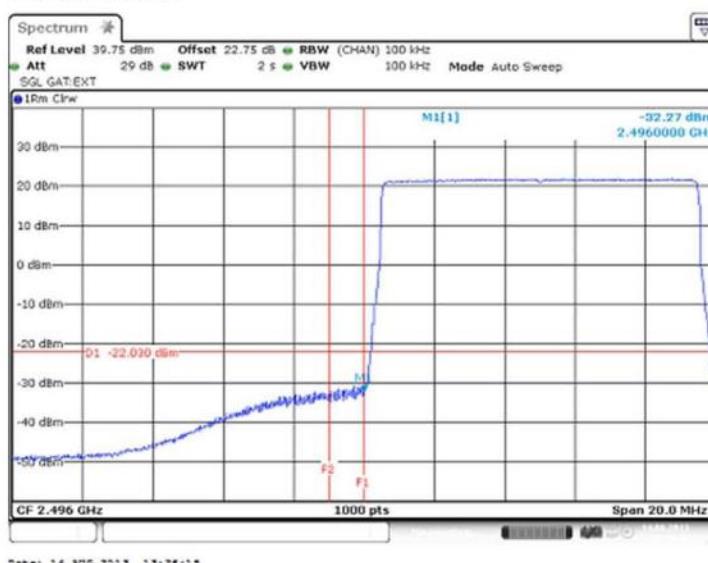


Figure 185 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



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Figure 186 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

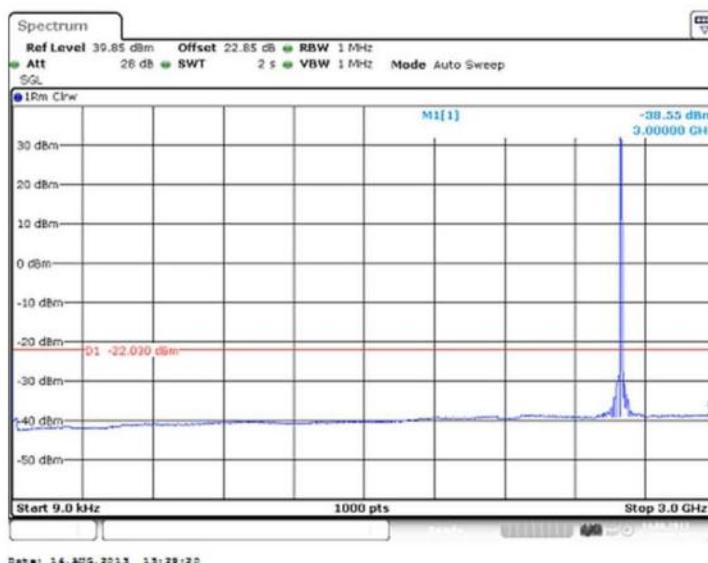


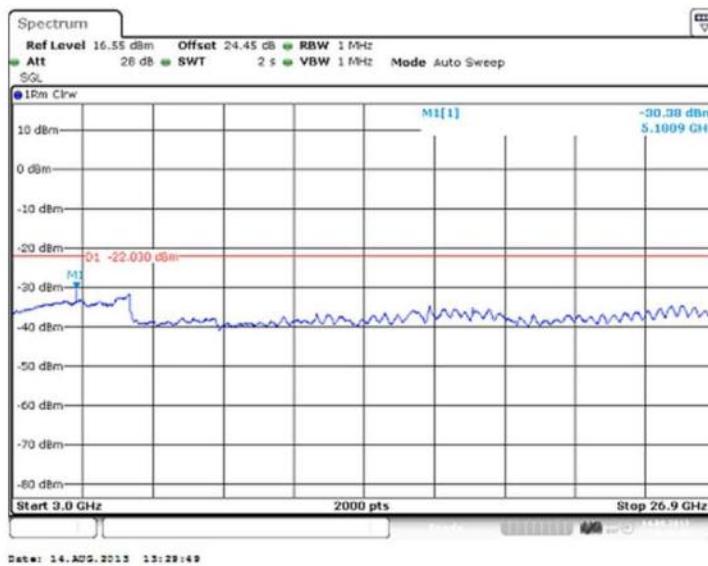
Figure 187 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



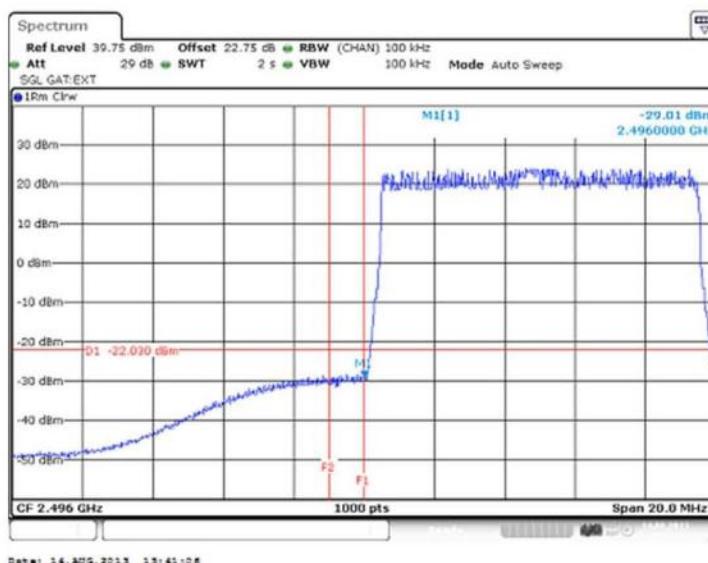
Product Service

FCC ID:
VBNFZHE-02

Test Report No:
D502853116



**Figure 188 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(10MHz Channel BW)**



**Figure 189 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz)
(10MHz Channel BW)**



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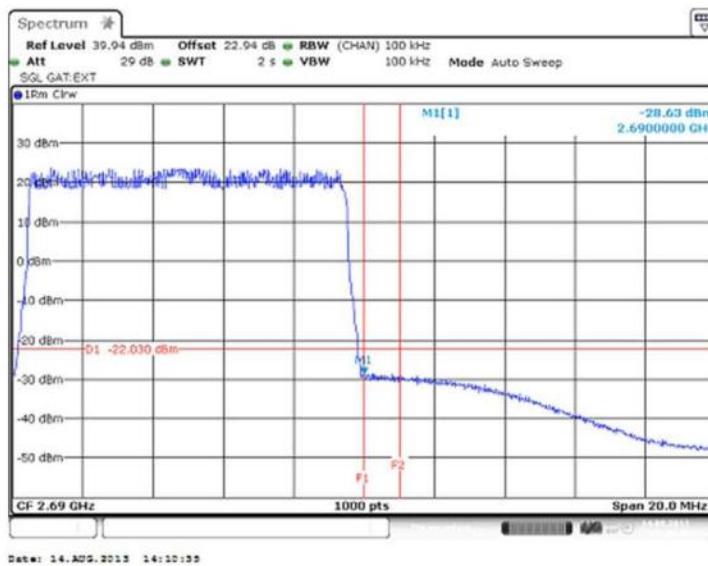


Figure 190 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz) (10MHz Channel BW)

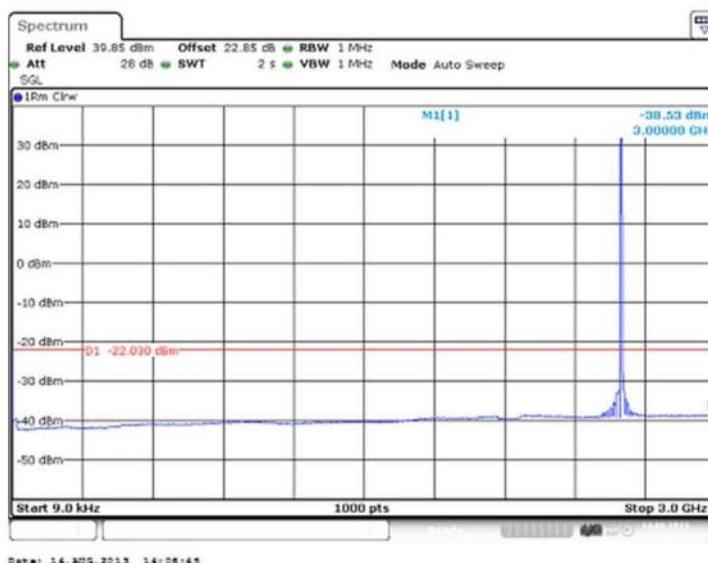


Figure 191 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)



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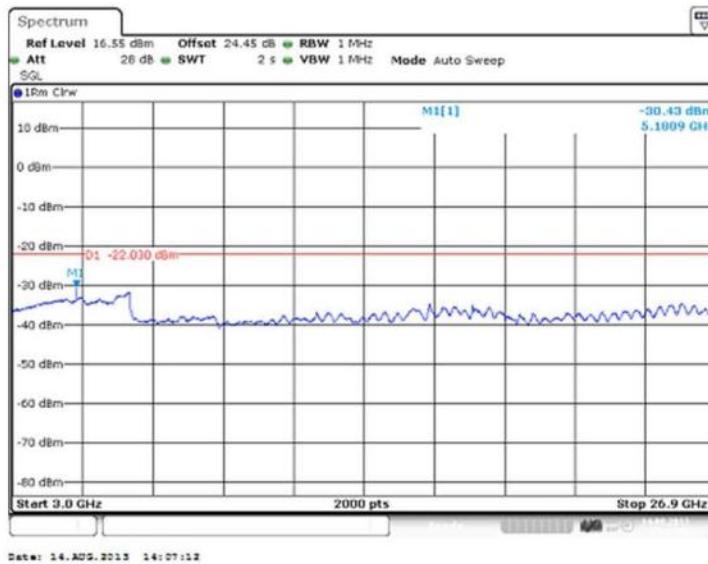


Figure 192 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

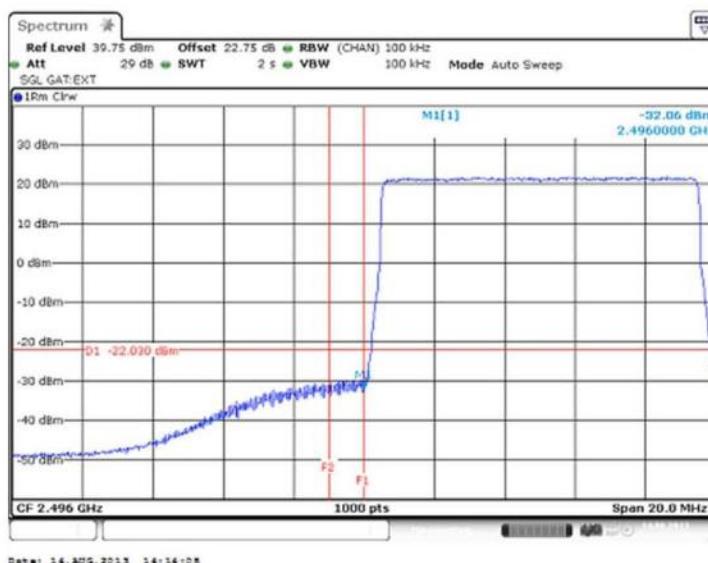


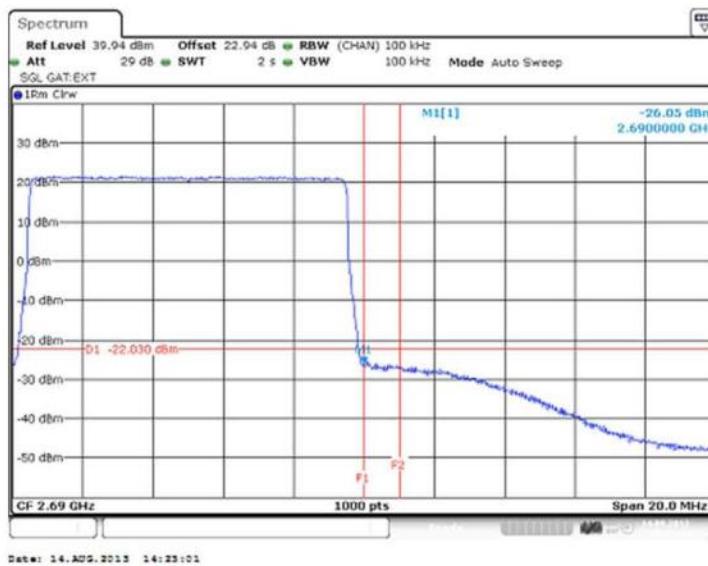
Figure 193 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



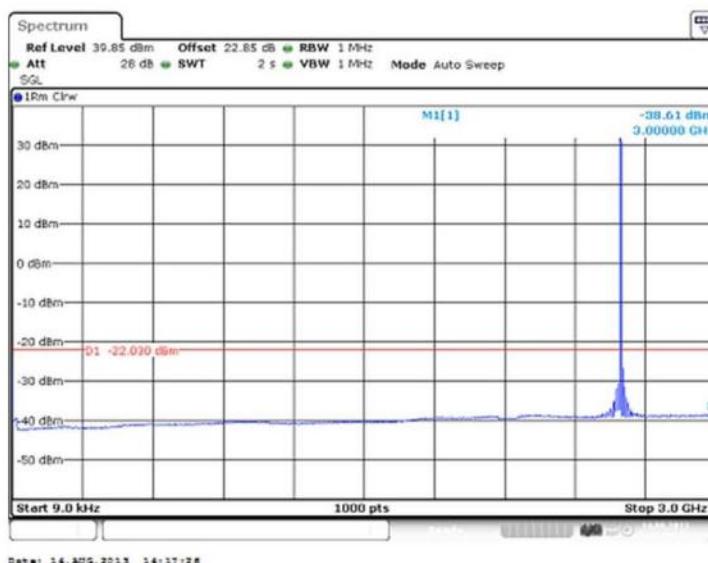
Product Service

FCC ID:
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Test Report No:
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**Figure 194 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz)
(10MHz Channel BW)**



**Figure 195 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz)
(10MHz Channel BW)**



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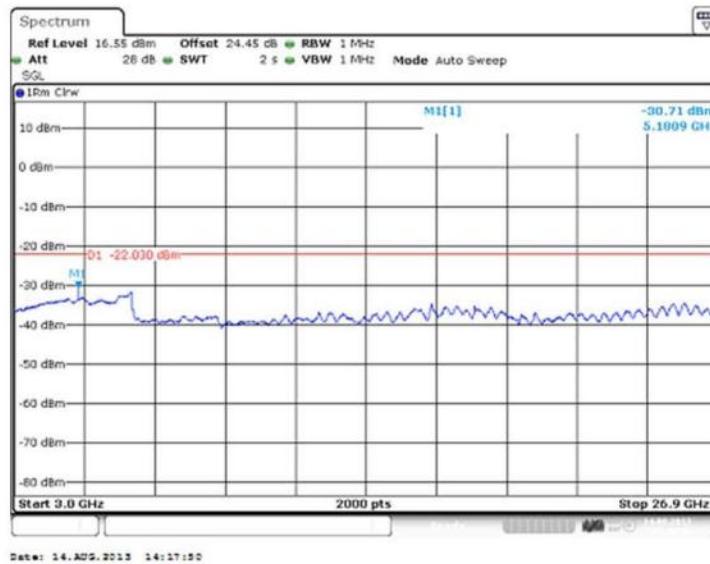


Figure 196 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz) (10MHz Channel BW)

Config A ANT8:

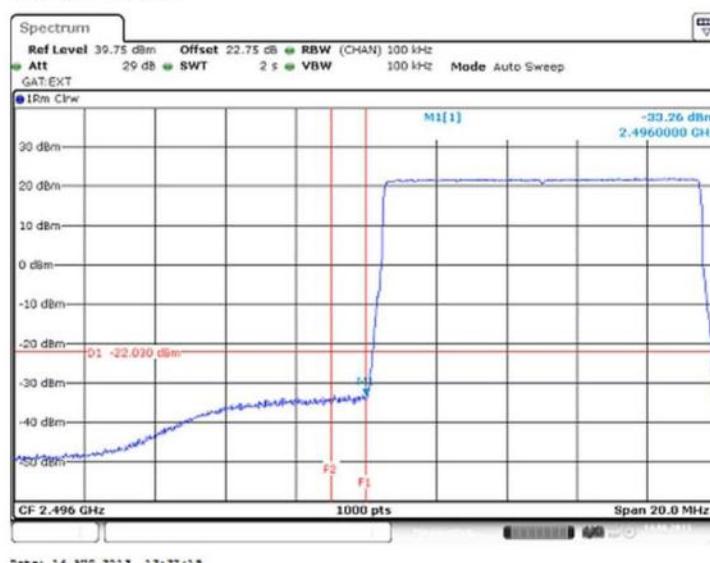


Figure 197 Spurious Emissions (Lower Band Edge) – QPSK (2501.0 MHz) (10MHz Channel BW)



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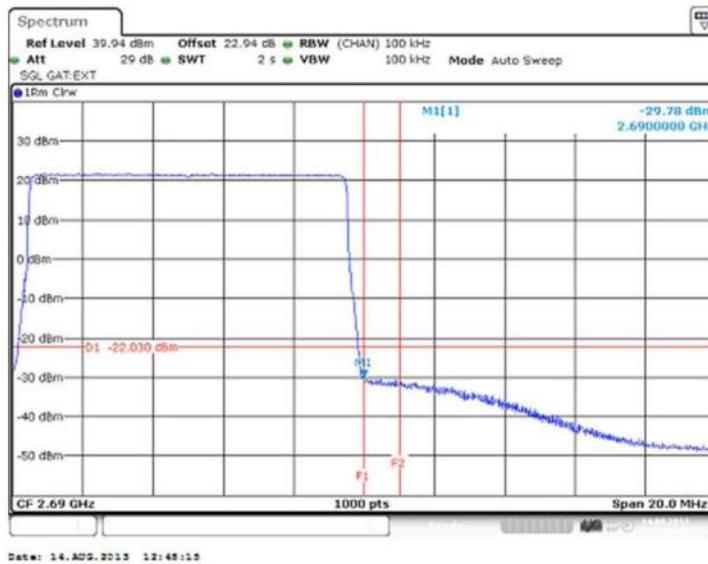


Figure 198 Spurious Emissions (Upper Band Edge) – QPSK (2685.0.0 MHz) (10MHz Channel BW)

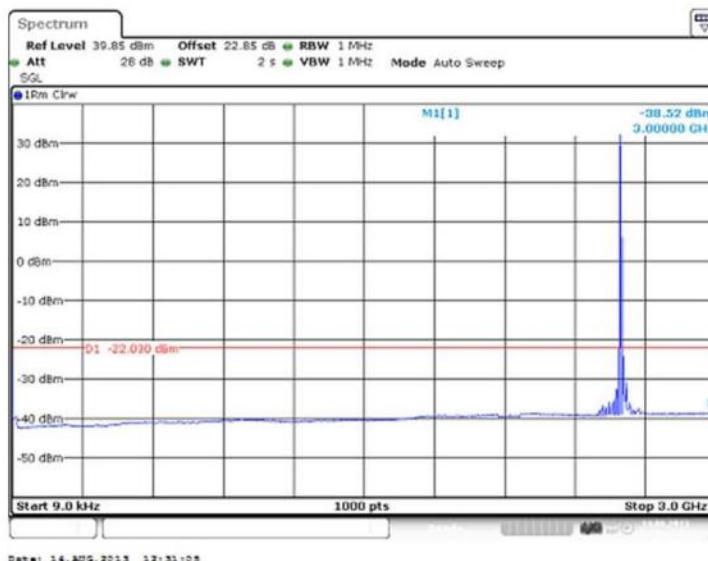


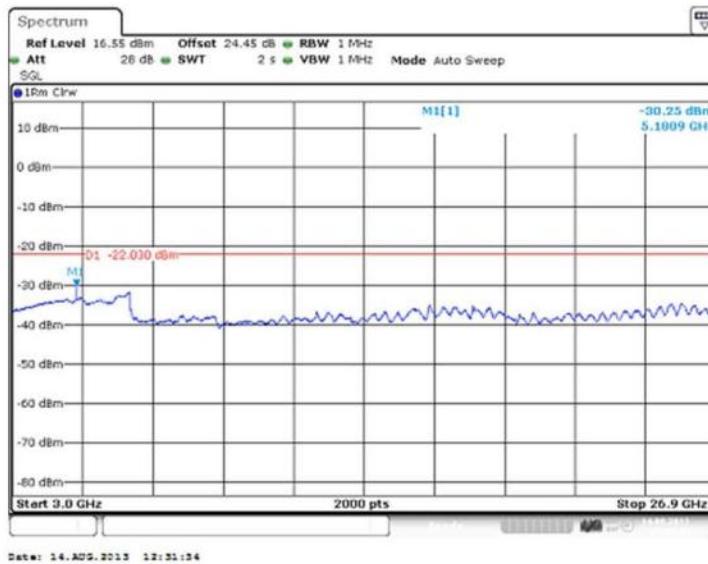
Figure 199 Spurious Emissions (9kHz – 3GHz) – QPSK (2593.0 MHz) (10MHz Channel BW)



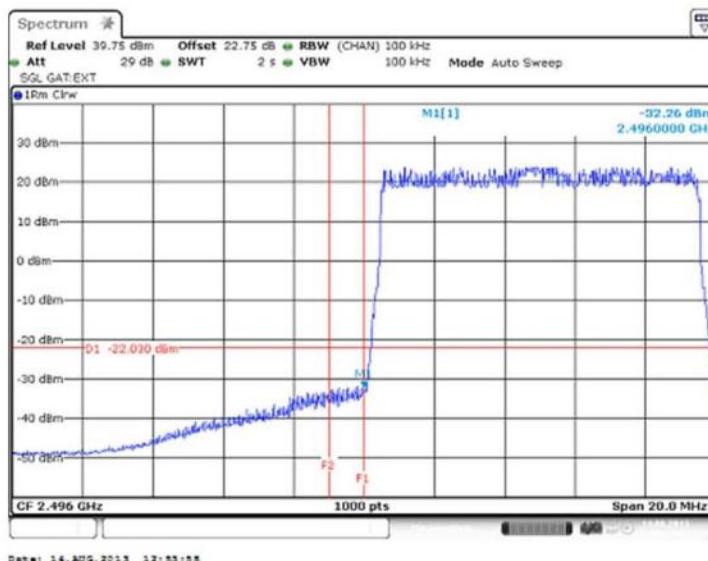
Product Service

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**Figure 200 Spurious Emissions (3GHz – 26.900GHz) – QPSK (2593.0 MHz)
(10MHz Channel BW)**



**Figure 201 Spurious Emissions (Lower Band Edge) – 16QAM (2501.0 MHz)
(10MHz Channel BW)**



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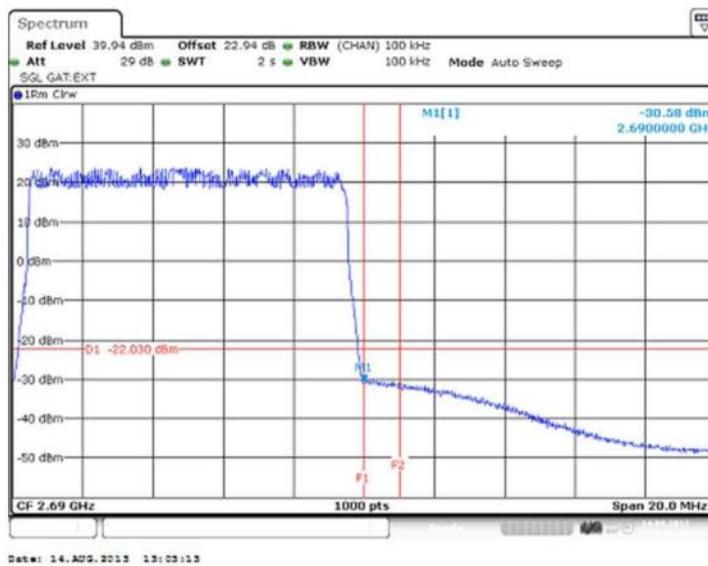


Figure 202 Spurious Emissions (Upper Band Edge) – 16QAM (2685.0.0 MHz) (10MHz Channel BW)

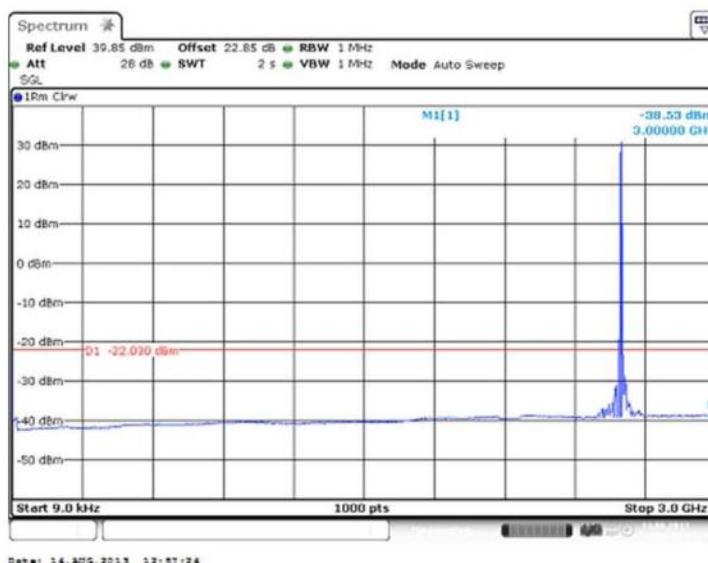


Figure 203 Spurious Emissions (9kHz – 3GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)



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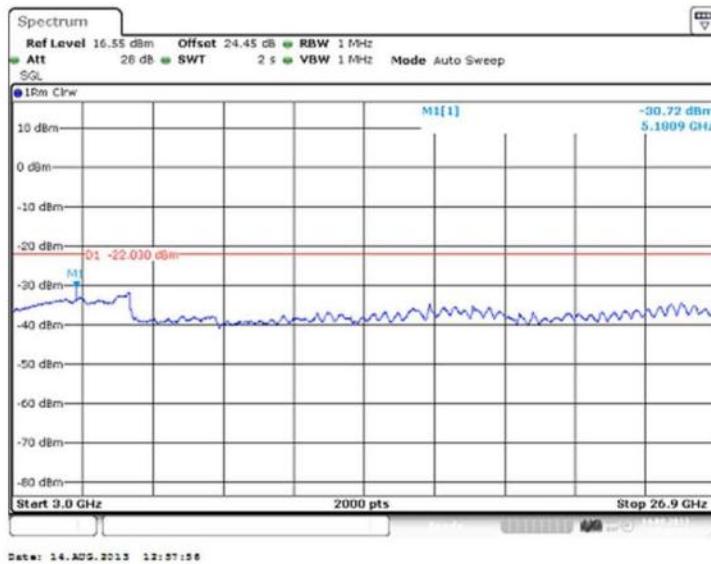


Figure 204 Spurious Emissions (3GHz – 26.900GHz) – 16QAM (2593.0 MHz) (10MHz Channel BW)

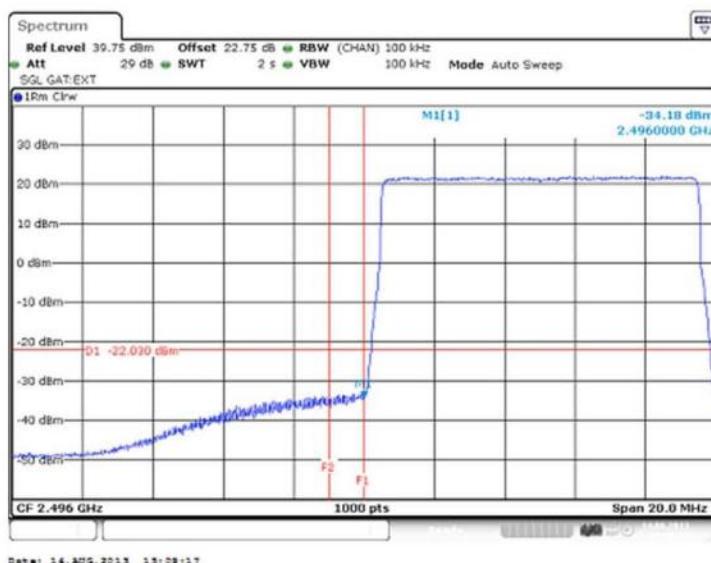


Figure 205 Spurious Emissions (Lower Band Edge) – 64QAM (2501.0 MHz) (10MHz Channel BW)



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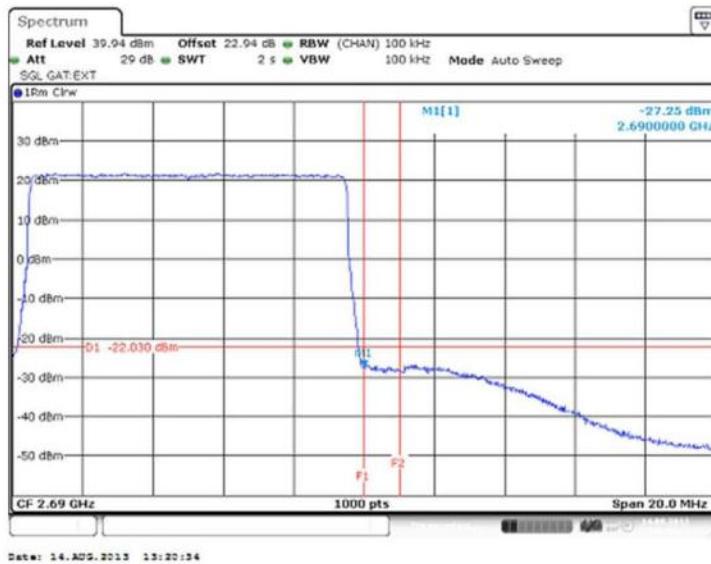


Figure 206 Spurious Emissions (Upper Band Edge) – 64QAM (2685.0.0 MHz)
(10MHz Channel BW)

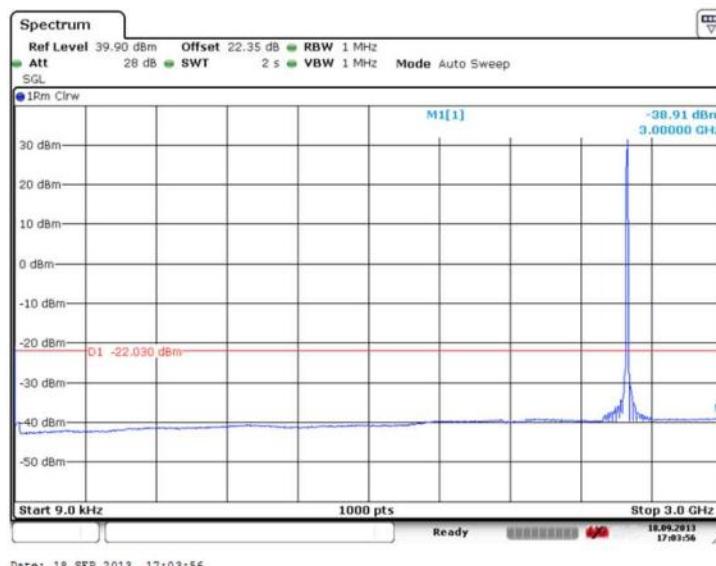


Figure 207 Spurious Emissions (9kHz – 3GHz) – 64QAM (2593.0 MHz)
(10MHz Channel BW)



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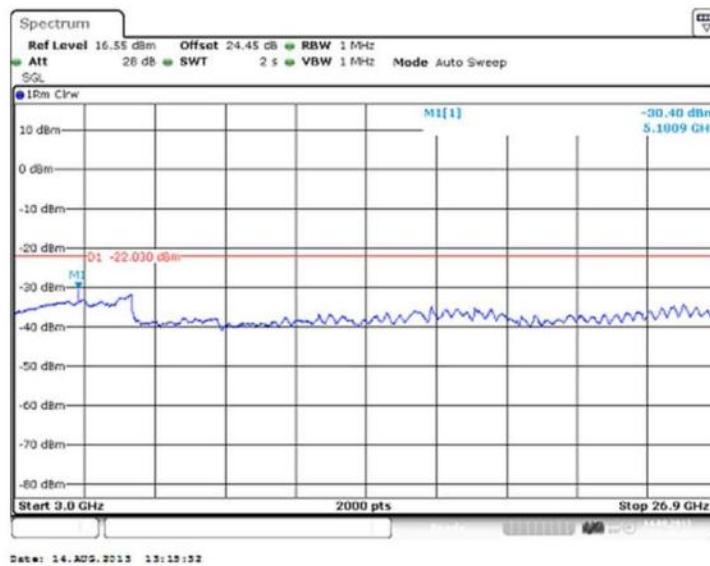


Figure 208 Spurious Emissions (3GHz – 26.900GHz) – 64QAM (2593.0 MHz)
(10MHz Channel BW)

Config B ANT1:

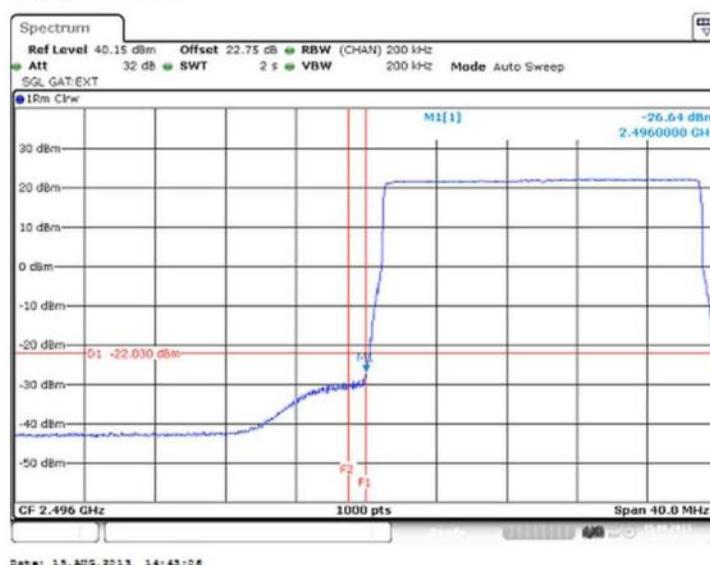


Figure 209 Spurious Emissions (Lower Band Edge) – QPSK (2506.0 MHz)
(20MHz Channel BW)



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Figure 210 Spurious Emissions (Upper Band Edge) – QPSK (2680.0 MHz) (20MHz Channel BW)

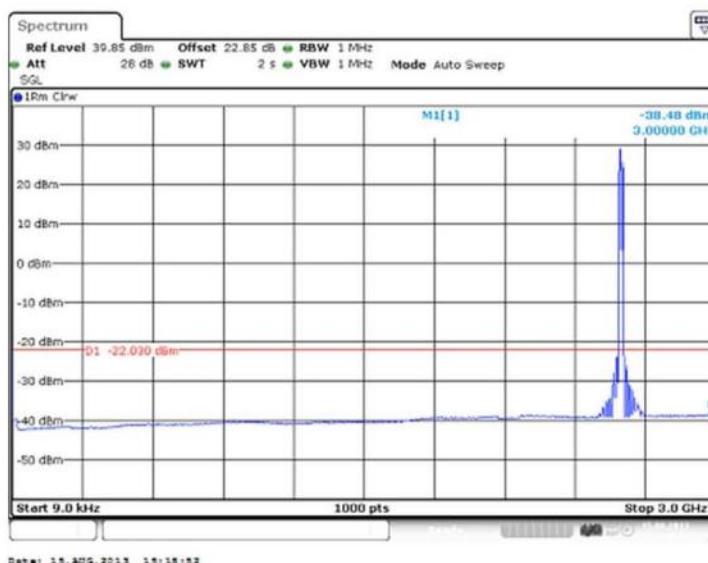


Figure 211 Spurious Emissions (9kHz – 3GHz) - QPSK (2593.0 MHz) (20MHz Channel BW)