



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

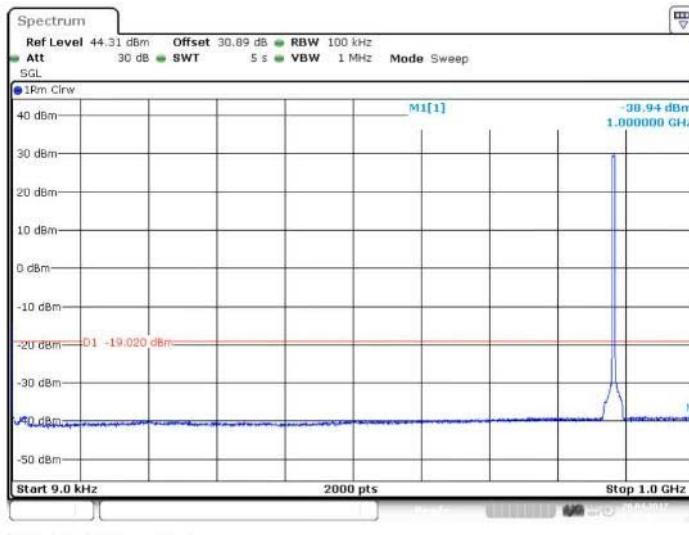


Figure 179 Spurious Emissions (9kHz – 1GHz) – 256QAM (881.5.0 MHz, 5 MHz Channel BW)

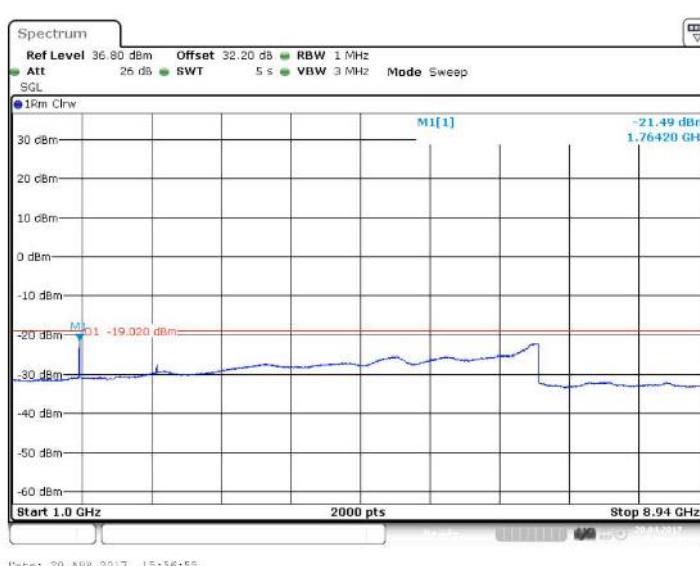


Figure 180 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (881.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

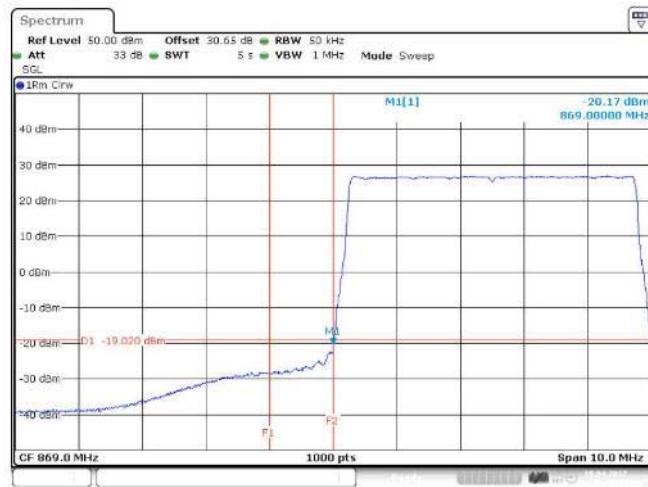
Config A ANT4:

Figure 181 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 5 MHz Channel BW)

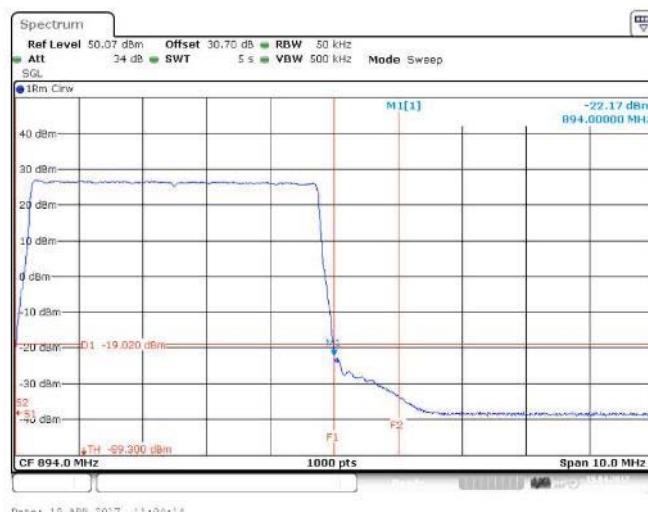


Figure 182 Spurious Emissions (Upper Band Edge) – QPSK (891.5 MHz, 5 MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

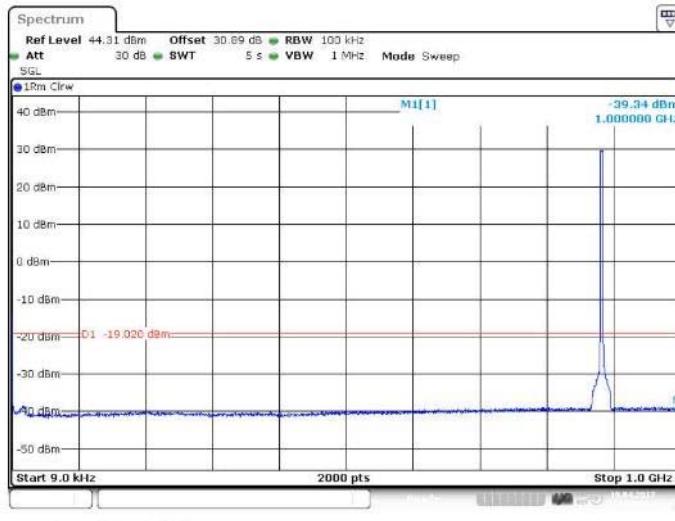
Page 181 of 427



Product Service

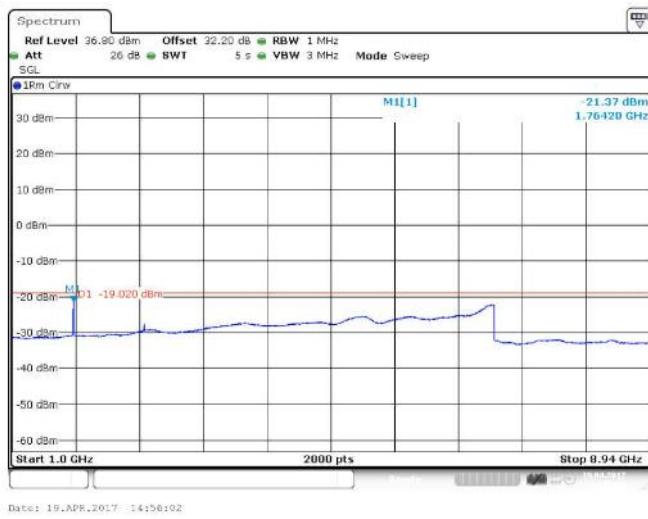
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 19.APR.2017 12:59:15

Figure 183 Spurious Emissions (9kHz – 1GHz) – QPSK (881.5.0 MHz, 5 MHz Channel BW)



Date: 19.APR.2017 14:56:02

Figure 184 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (881.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

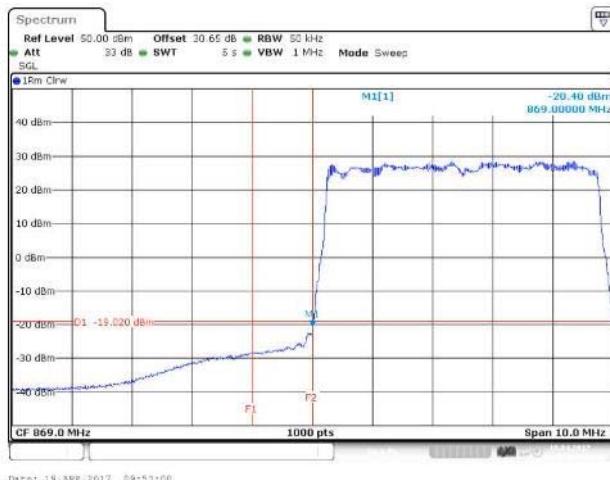


Figure 185 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 5 MHz Channel BW)

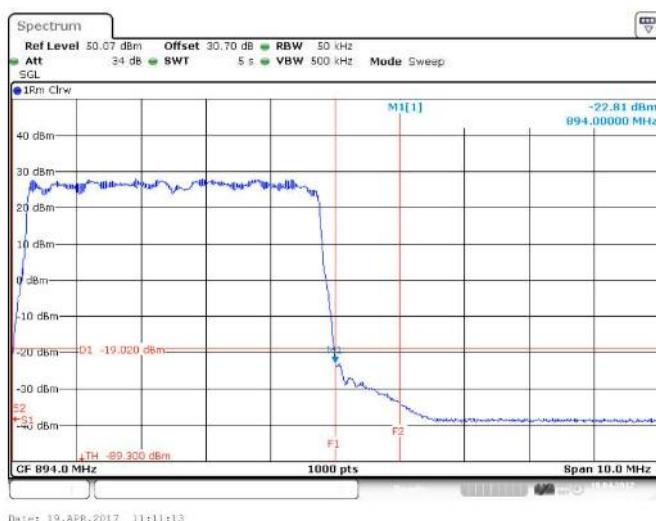


Figure 186 Spurious Emissions (Upper Band Edge) – 16QAM (891.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

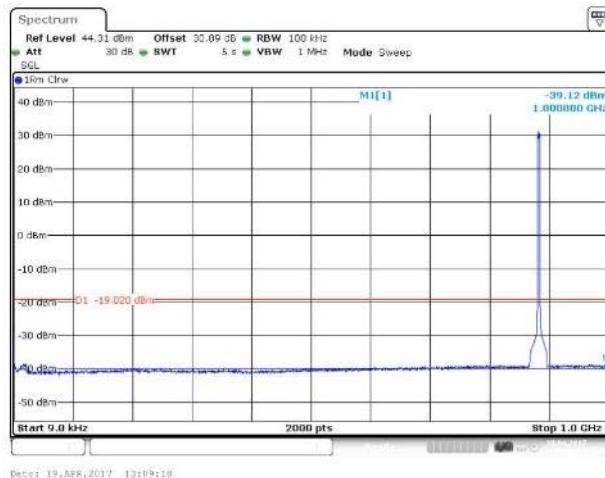


Figure 187 Spurious Emissions (9kHz – 1GHz) – 16QAM (881.5.0 MHz, 5 MHz Channel BW)

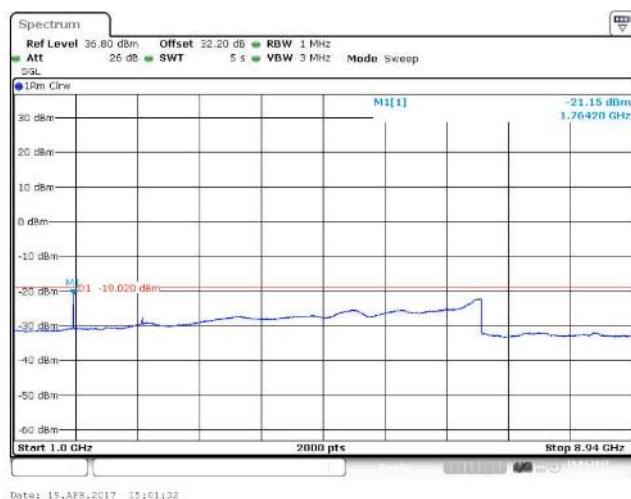


Figure 188 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (881.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

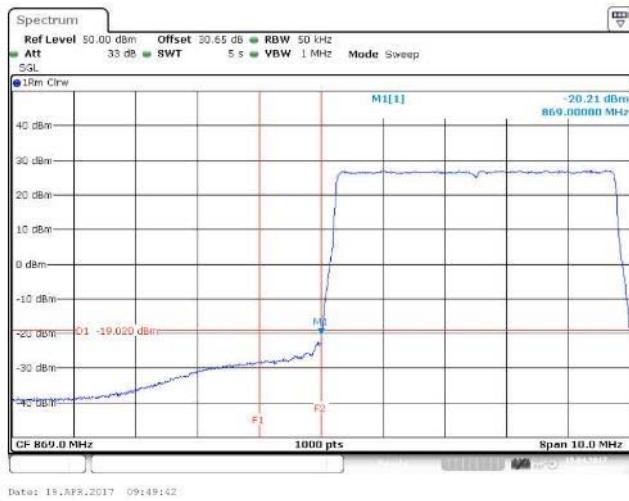


Figure 189 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 5 MHz Channel BW)

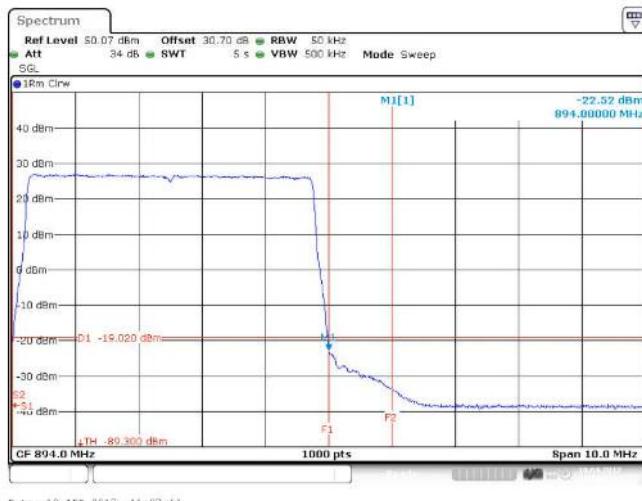


Figure 190 Spurious Emissions (Upper Band Edge) – 64QAM (891.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

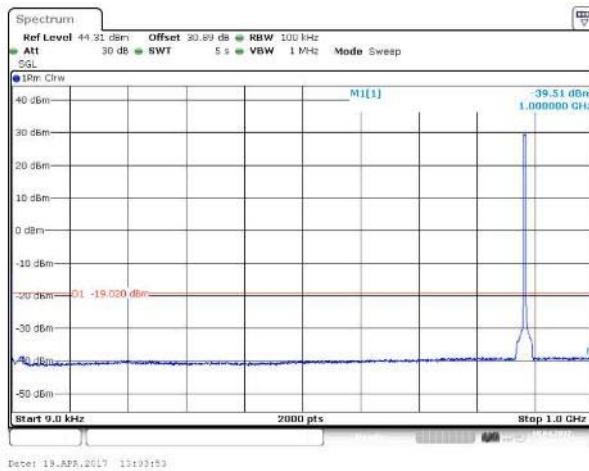


Figure 191 Spurious Emissions (9kHz – 1GHz) – 64QAM (881.5.0 MHz, 5 MHz Channel BW)

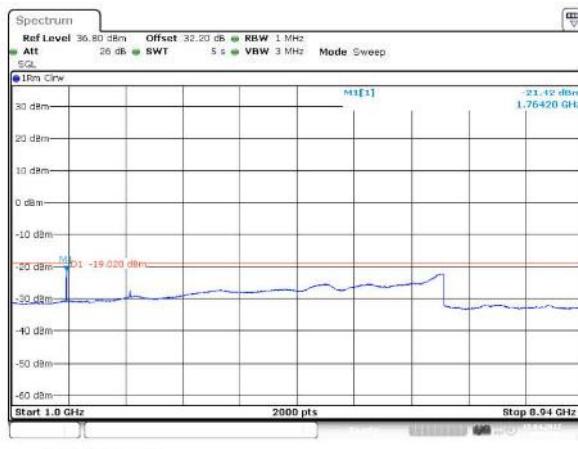


Figure 192 Spurious Emissions (1 GHz – 8.94 GHz) – 64QAM (881.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

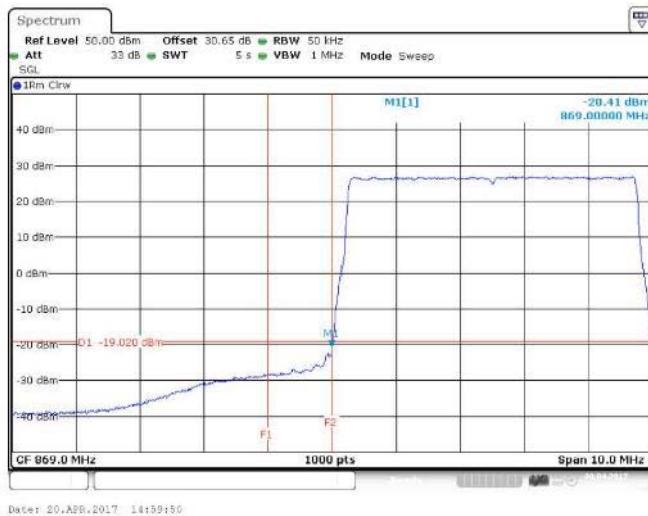


Figure 193 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 5 MHz Channel BW)

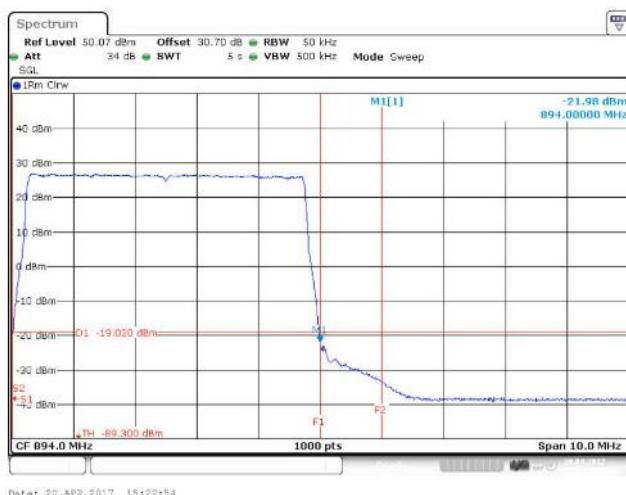


Figure 194 Spurious Emissions (Upper Band Edge) – 256QAM (891.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

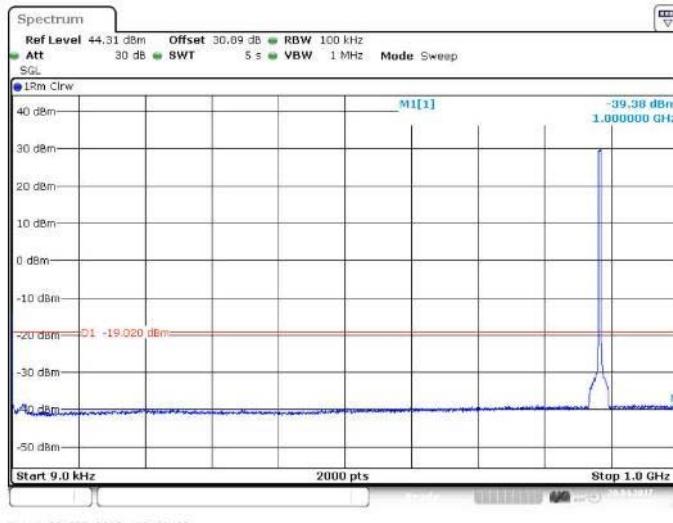


Figure 195 Spurious Emissions (9kHz – 1GHz) – 256QAM (881.5.0 MHz, 5 MHz Channel BW)

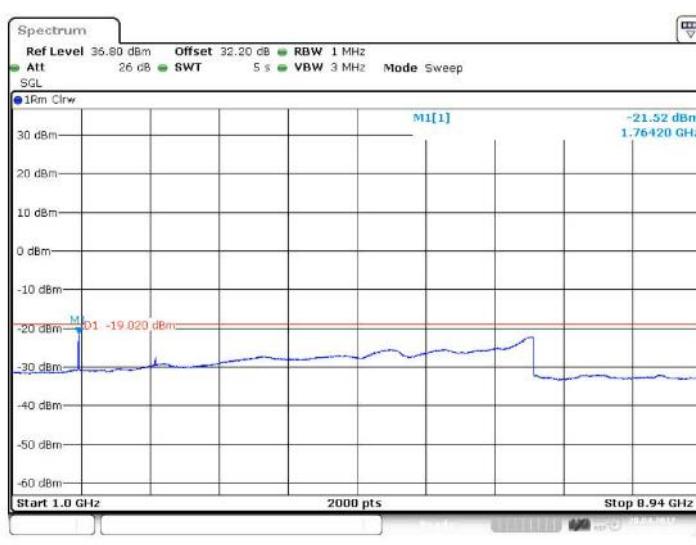


Figure 196 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (881.5 MHz, 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

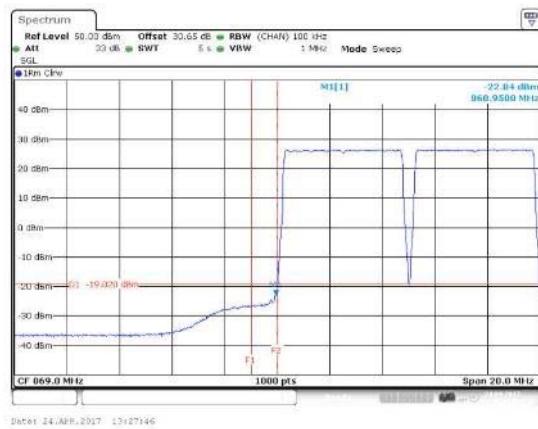
Config B ANT1:

Figure 197 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876,5 MHz, 2 X 5 MHz Channel BW)

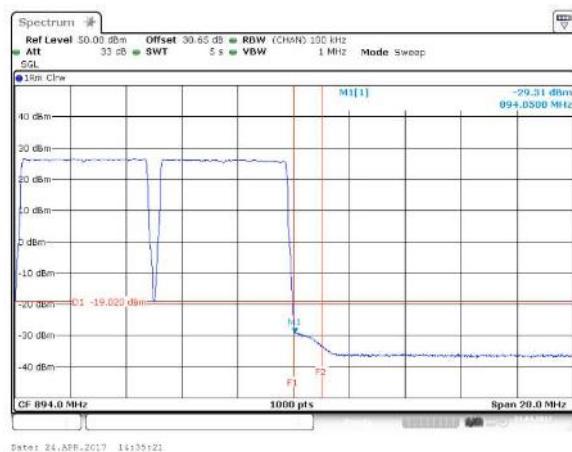


Figure 198 Spurious Emissions (Upper Band Edge) – QPSK (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

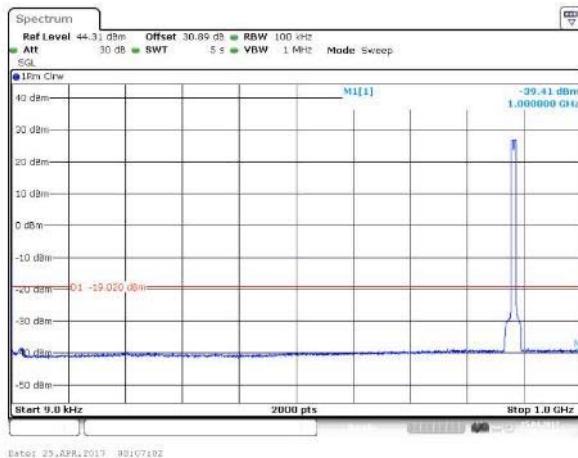


Figure 199 Spurious Emissions (9kHz – 1GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

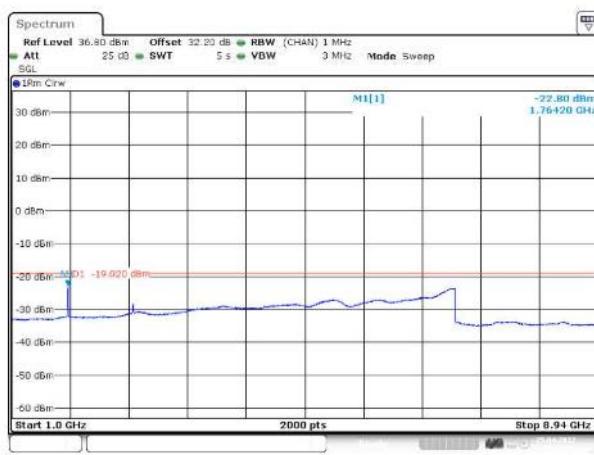


Figure 200 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

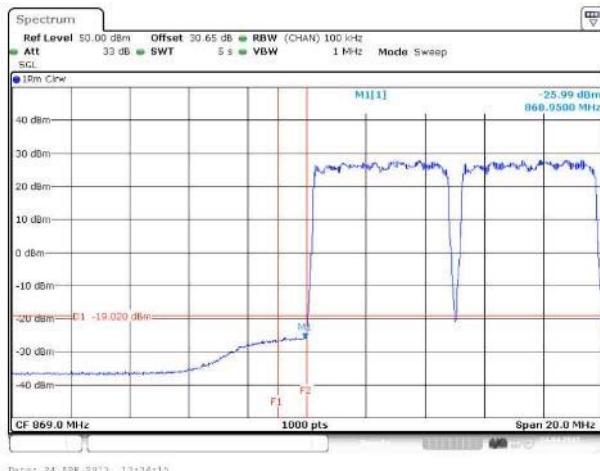


Figure 201 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)

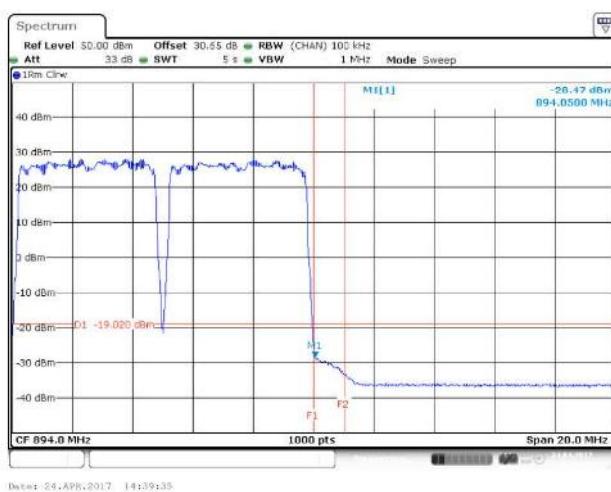


Figure 202 Spurious Emissions (Upper Band Edge) – 16QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

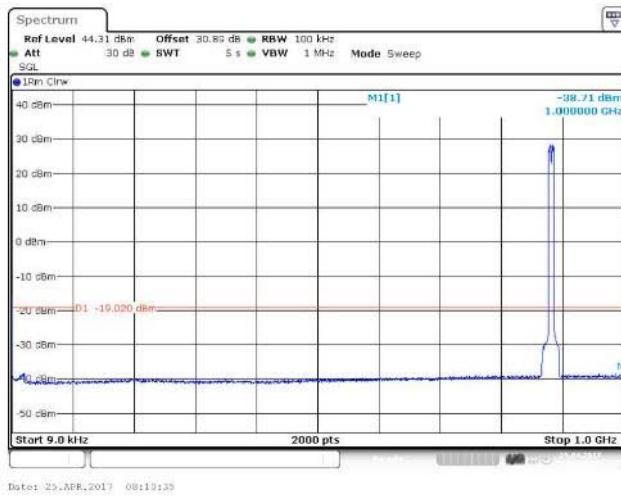


Figure 203 Spurious Emissions (9kHz – 1GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

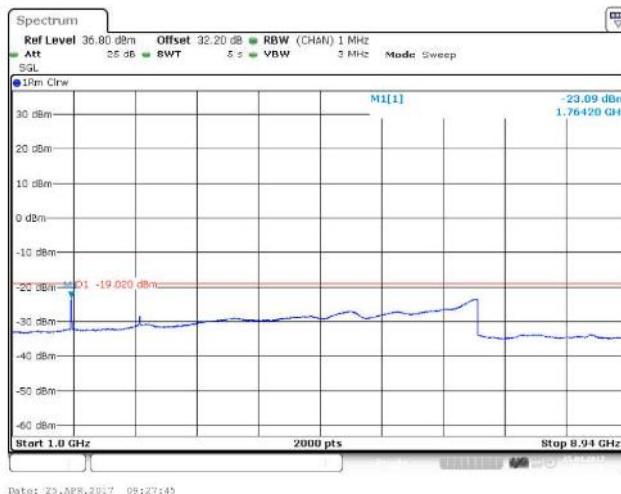


Figure 204 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

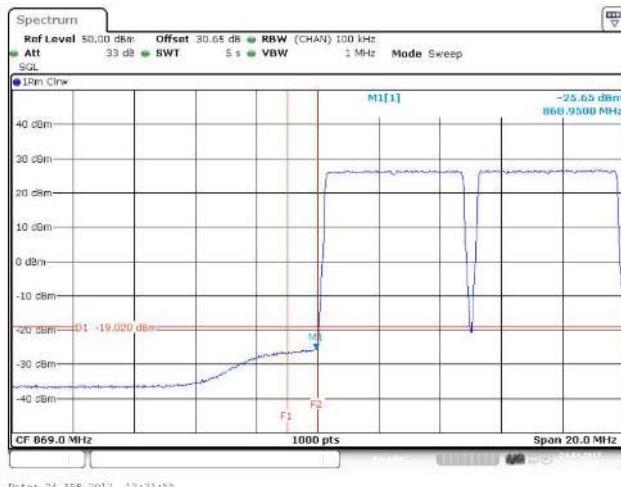


Figure 205 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)

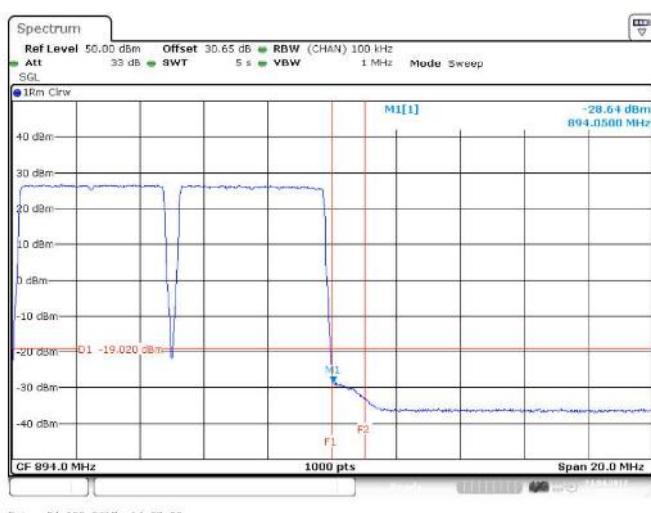


Figure 206 Spurious Emissions (Upper Band Edge) – 64QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

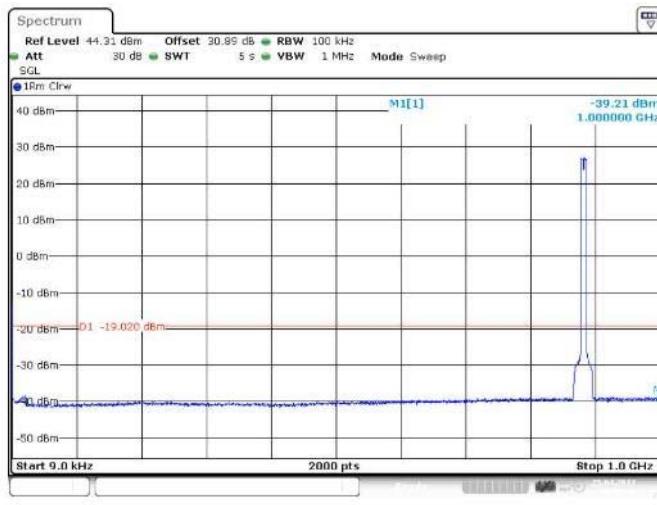


Figure 207 Spurious Emissions (9kHz – 1GHz) – 64QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

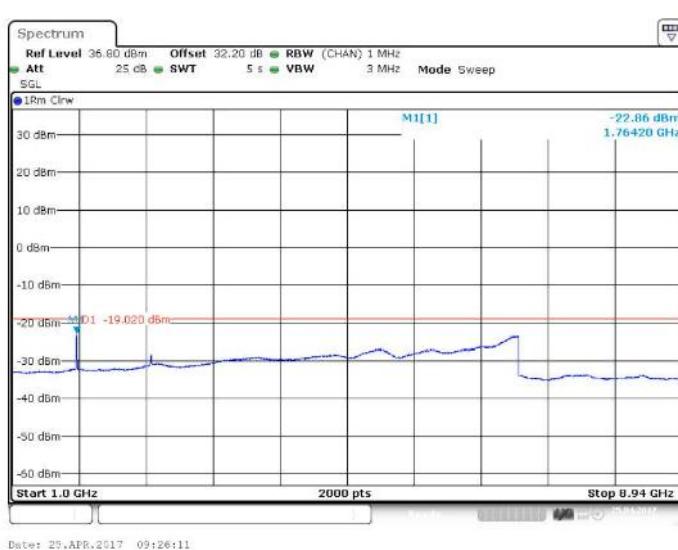


Figure 208 Spurious Emissions (1 GHz – 8.94 GHz) – (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

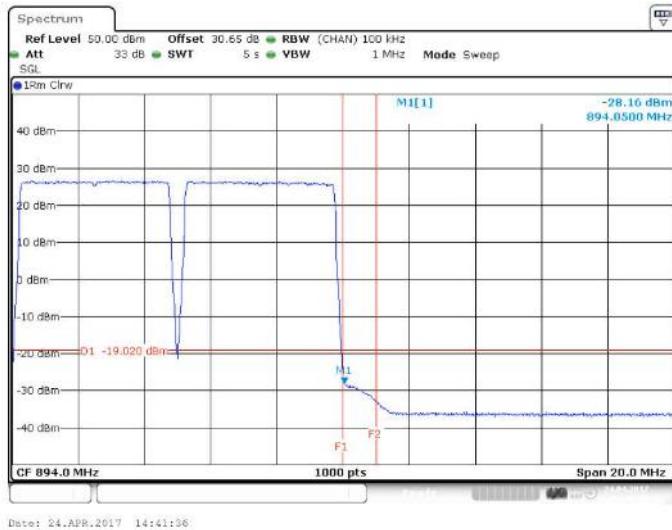
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 24.APR.2017 13:36:12

Figure 209 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)



Date: 24.APR.2017 14:41:36

Figure 210 Spurious Emissions (Upper Band Edge) – 256QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 195 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

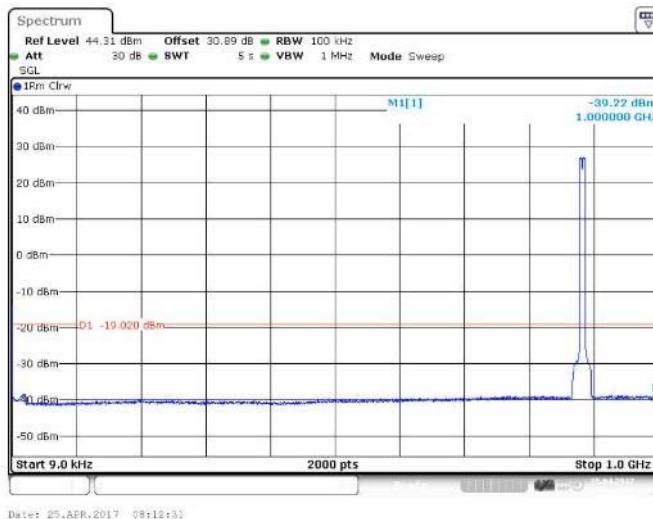


Figure 211 Spurious Emissions (9kHz – 1GHz) – 256QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

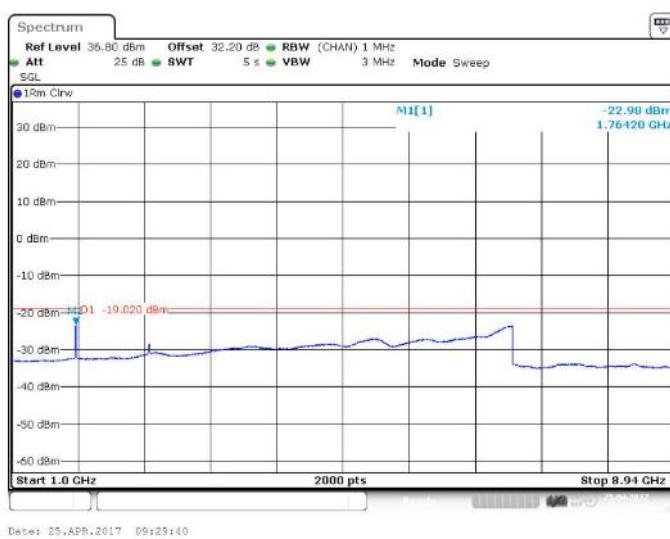


Figure 212 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

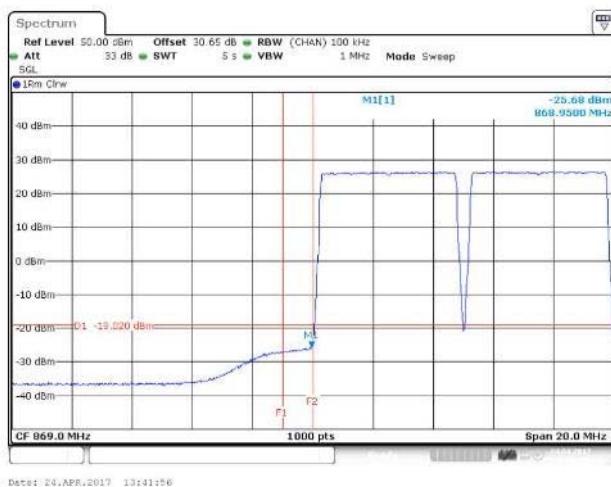
Config B ANT2:

Figure 213 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)



Figure 214 Spurious Emissions (Upper Band Edge) – QPSK (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

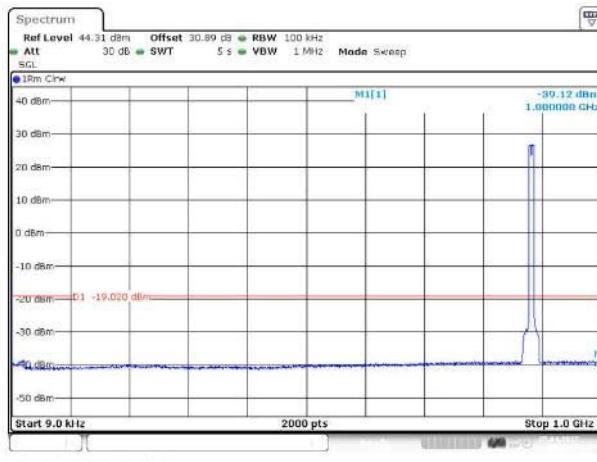


Figure 215 Spurious Emissions (9kHz – 1GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

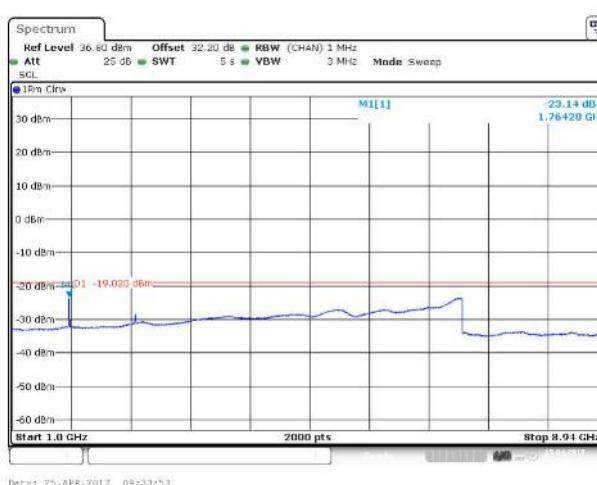


Figure 216 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

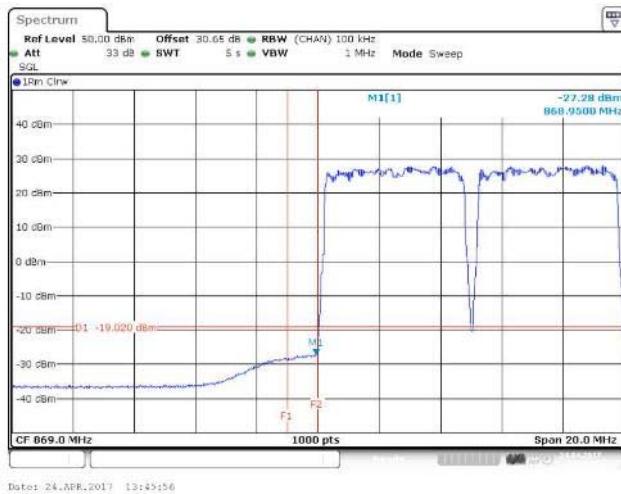


Figure 217 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)

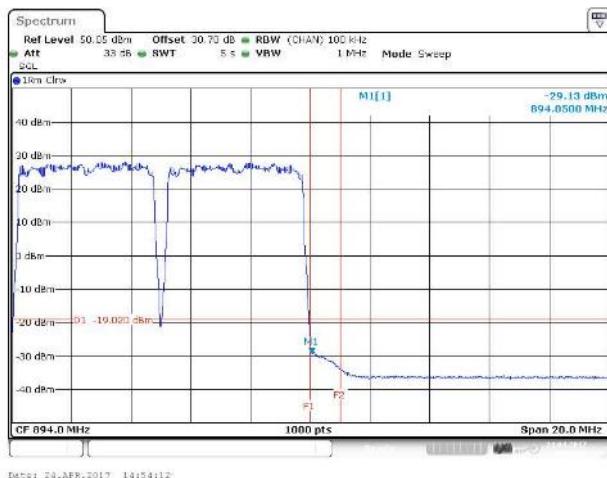


Figure 218 Spurious Emissions (Upper Band Edge) – 16QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

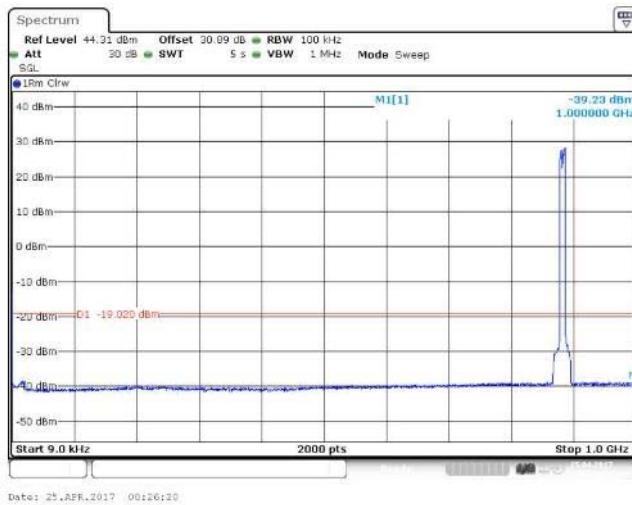


Figure 219 Spurious Emissions (9kHz – 1GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

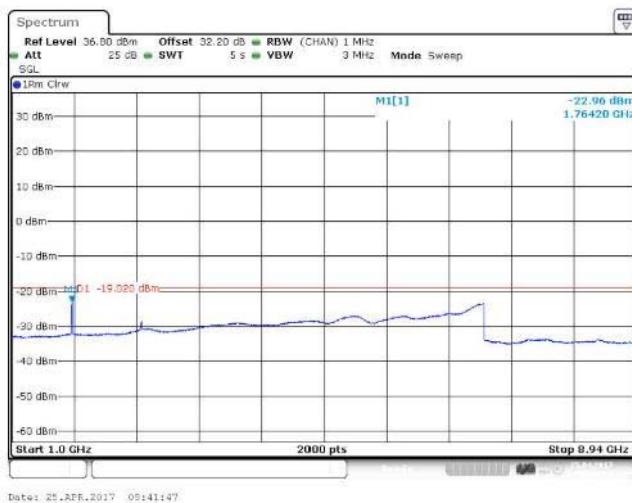


Figure 220 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

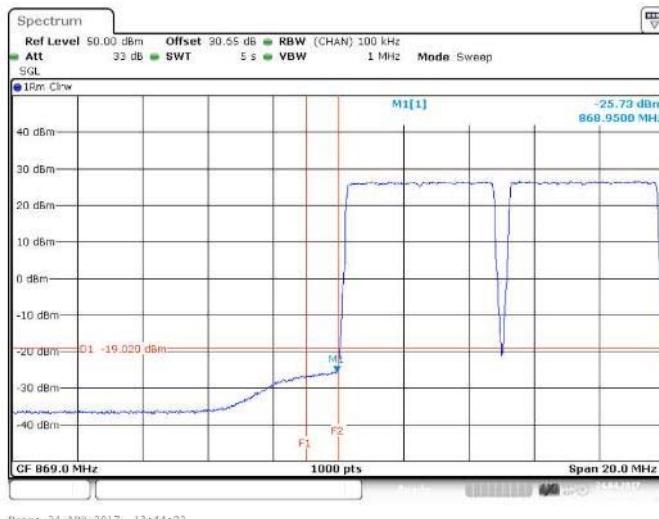


Figure 221 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)

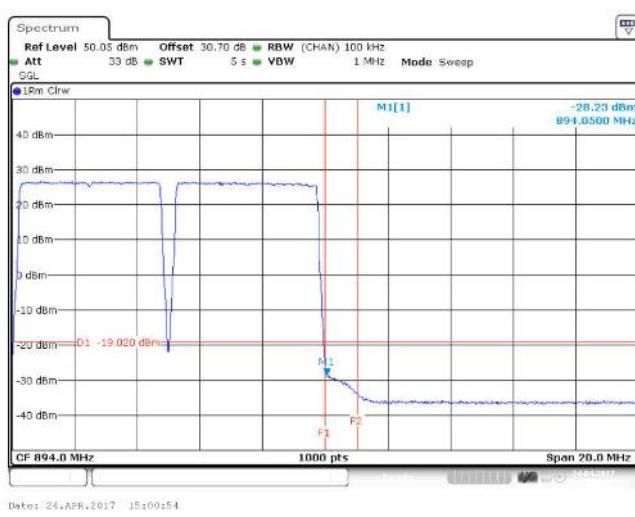


Figure 222 Spurious Emissions (Upper Band Edge) – 64QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

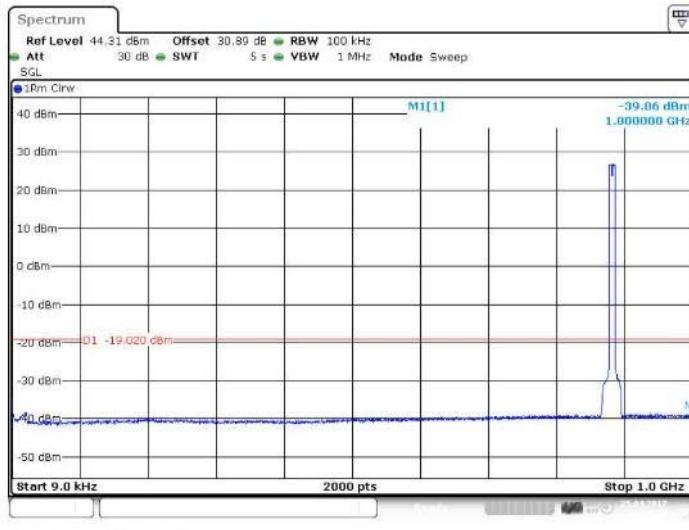


Figure 223 Spurious Emissions (9kHz – 1GHz) – 64QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

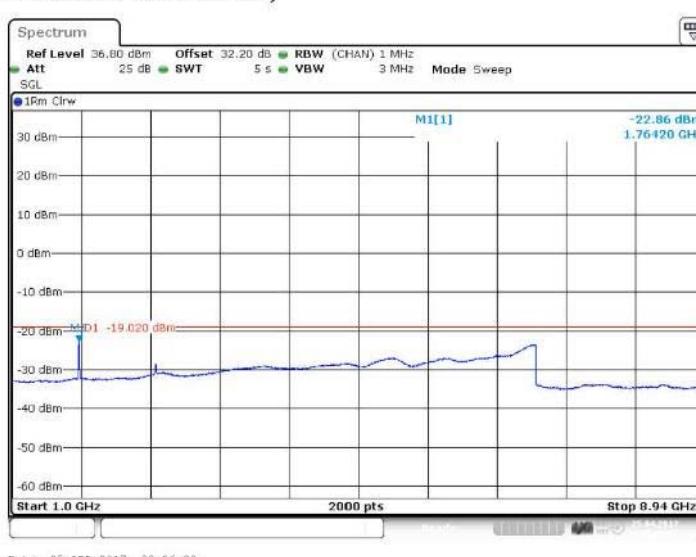


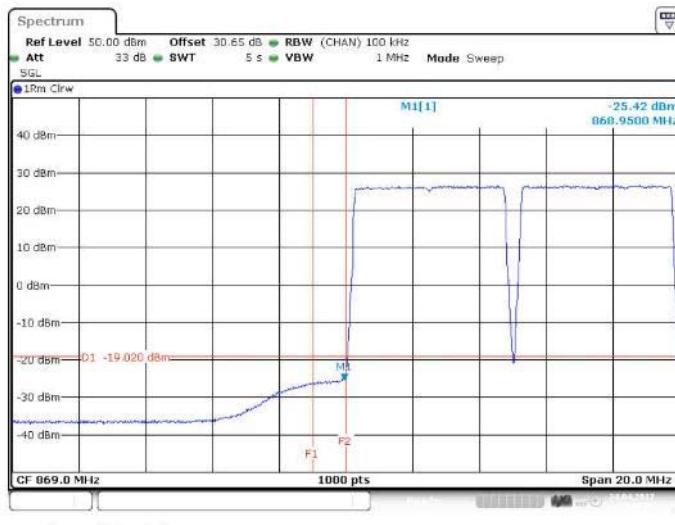
Figure 184 Spurious Emissions (1 GHz – 8.94 GHz) – 64QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

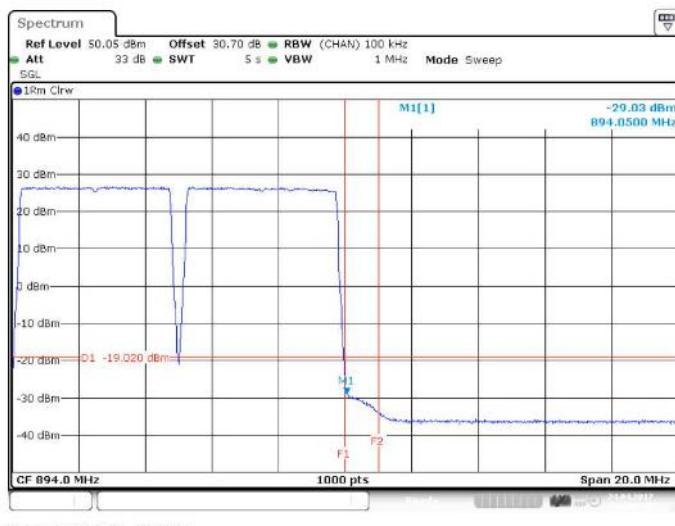
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 24.APR.2017 13:48:14

Figure 224 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)



Date: 24.APR.2017 14:56:14

Figure 225 Spurious Emissions (Upper Band Edge) – 256QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 203 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

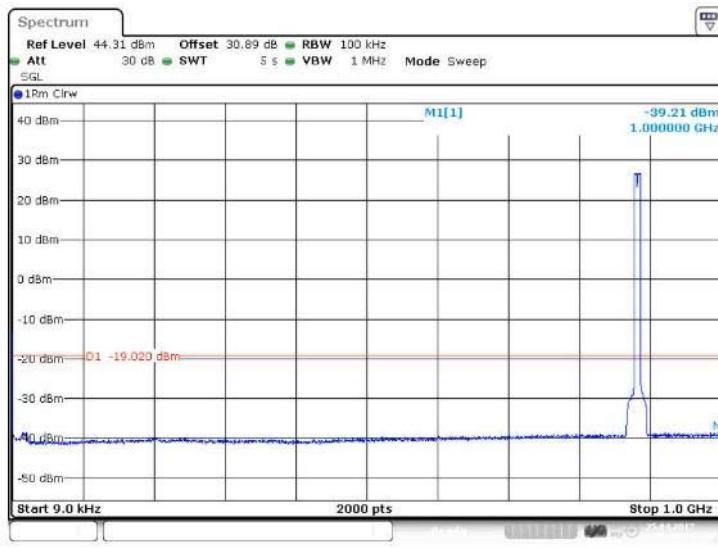


Figure 226 Spurious Emissions (9kHz – 1GHz) – (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Figure 227 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

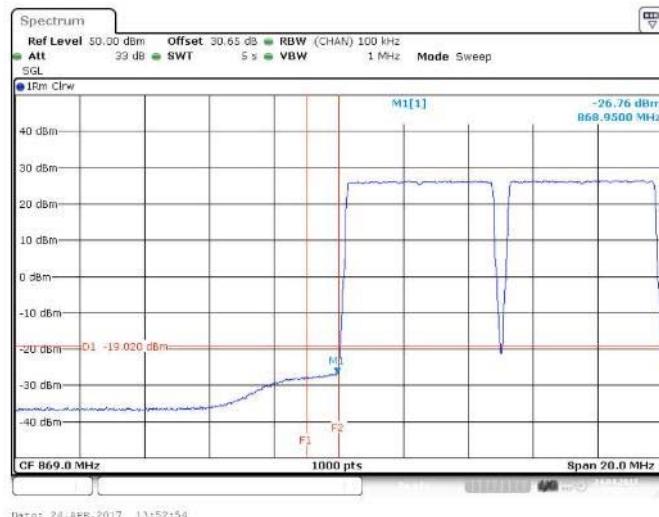
Config B ANT3:

Figure 228 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)

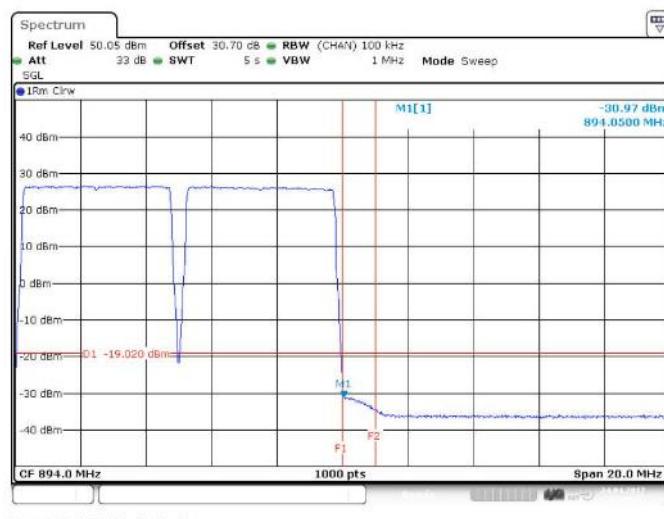


Figure 229 Spurious Emissions (Upper Band Edge) – QPSK (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

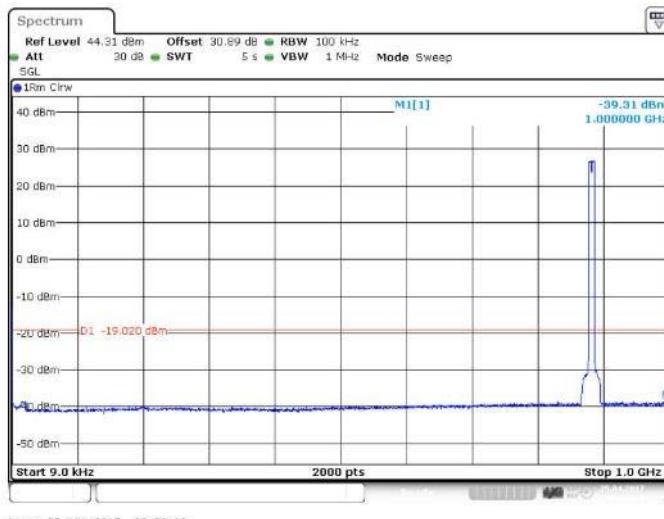


Figure 230 Spurious Emissions (9kHz – 1GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

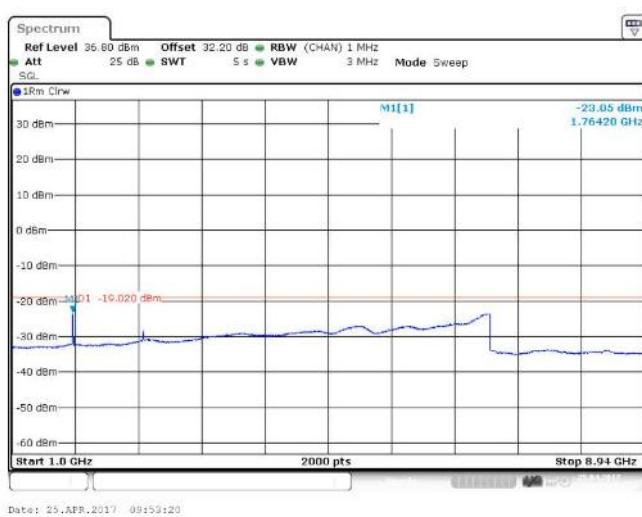


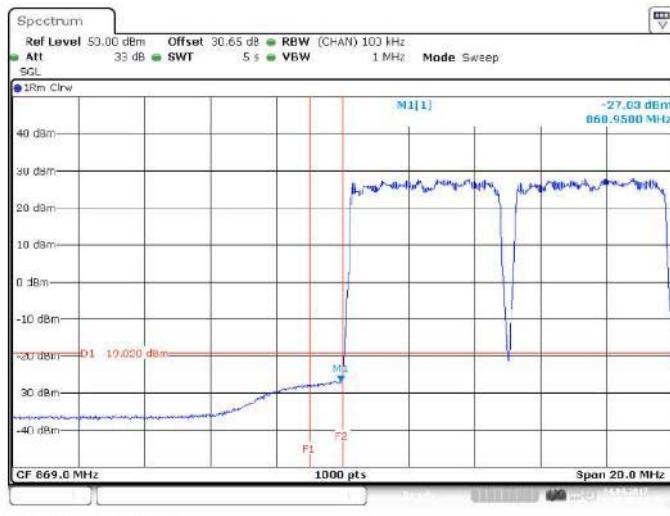
Figure 231 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 24.APR.2017 13:57:09

Figure 232 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)



Date: 24.APR.2017 15:09:12

Figure 233 Spurious Emissions (Upper Band Edge) – 16QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 207 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

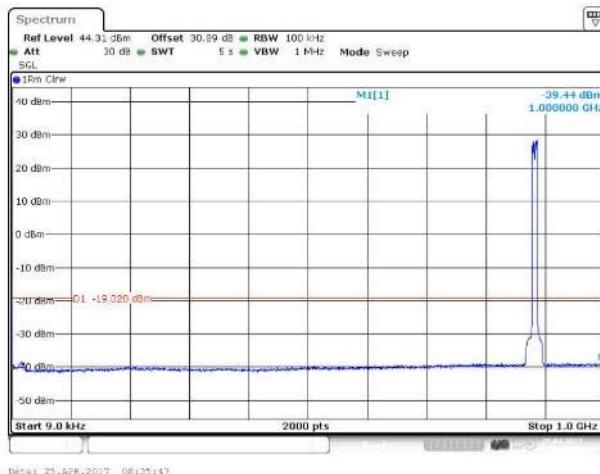


Figure 234 Spurious Emissions (9kHz – 1GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

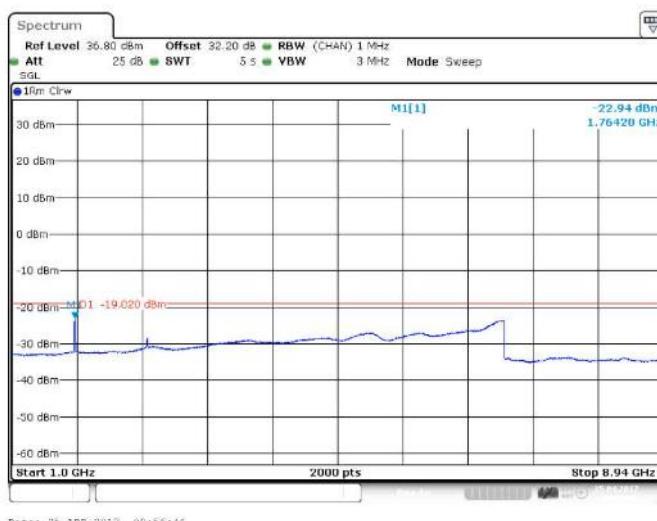


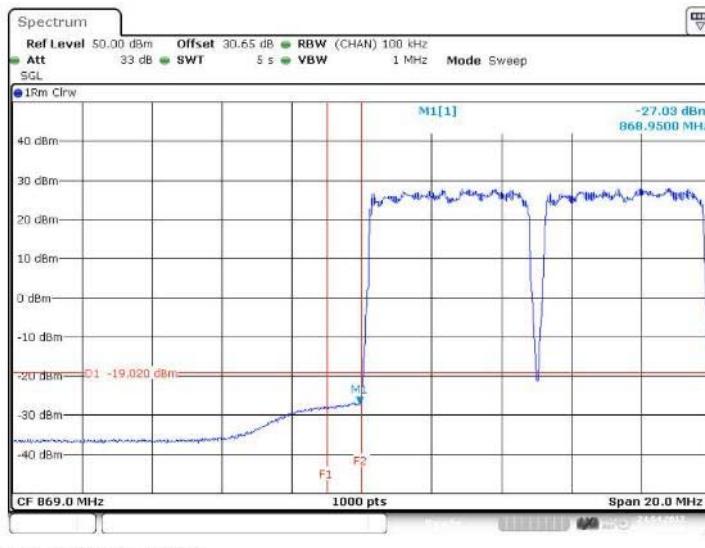
Figure 235 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

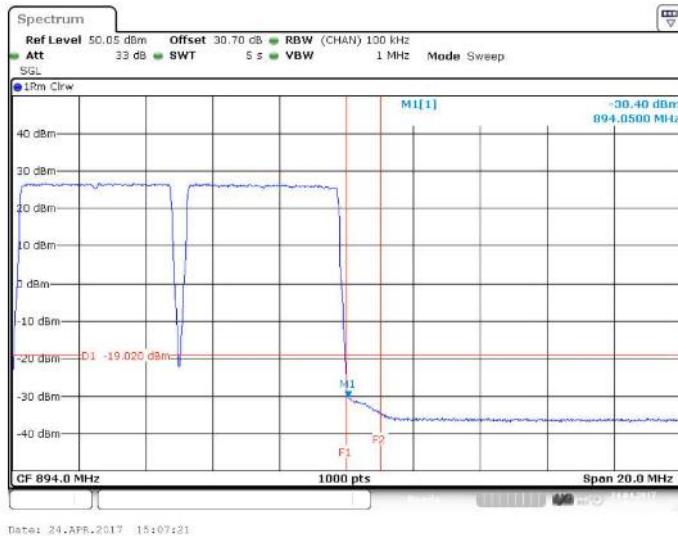
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 24.APR.2017 13:59:05

Figure 236 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876.5 MHz, 2 X 5 MHz Channel BW)



Date: 24.APR.2017 15:07:21

Figure 237 Spurious Emissions (Upper Band Edge) – 64QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)

FCC 47 CFR part 22
(2016)

23. May 2017

Page 209 of 427



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

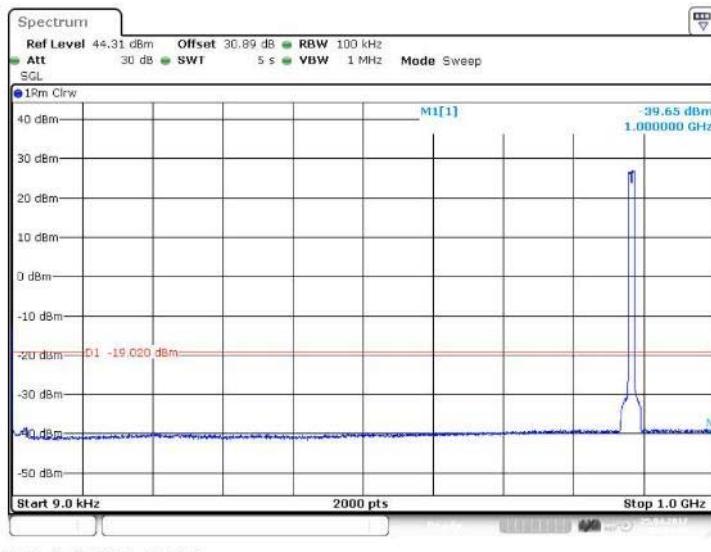


Figure 238 Spurious Emissions (9kHz – 1GHz) – 64QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

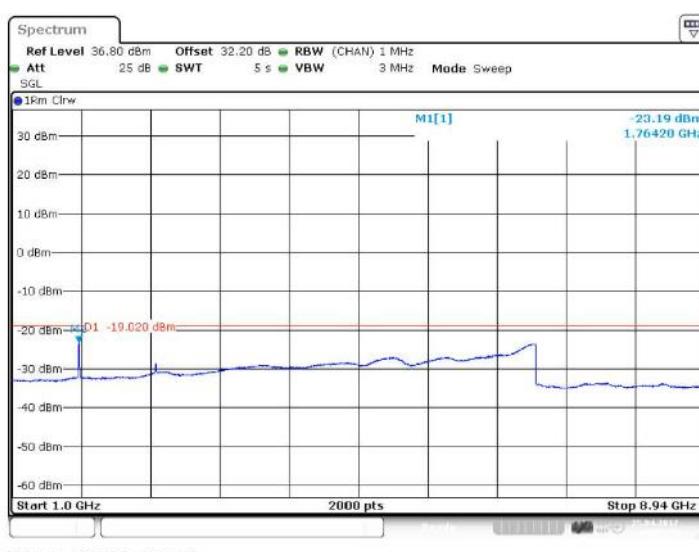


Figure 239 Spurious Emissions (1 GHz – 8.94 GHz) – 64QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

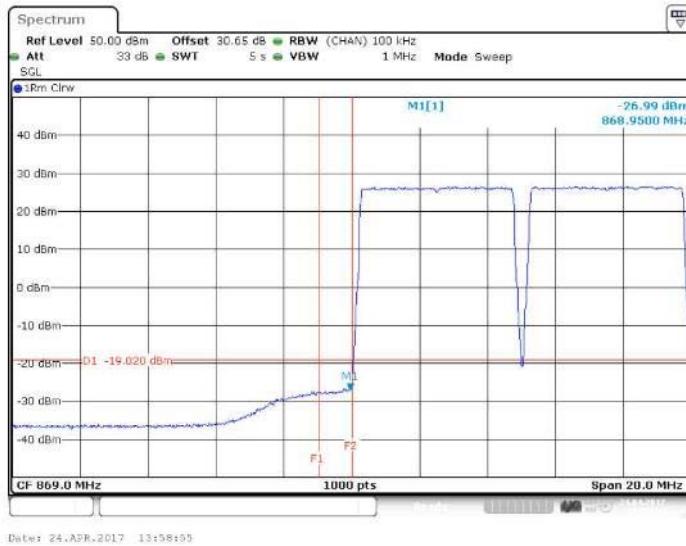


Figure 240 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876,5 MHz, 2 X 5 MHz Channel BW)

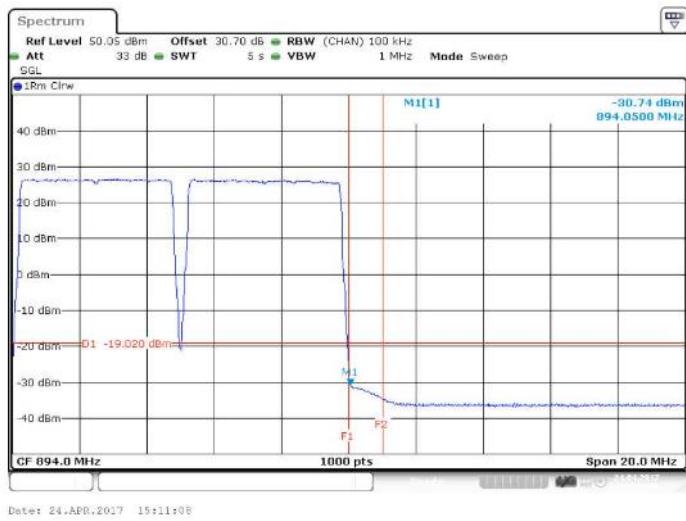


Figure 241 Spurious Emissions (Upper Band Edge) – 256QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

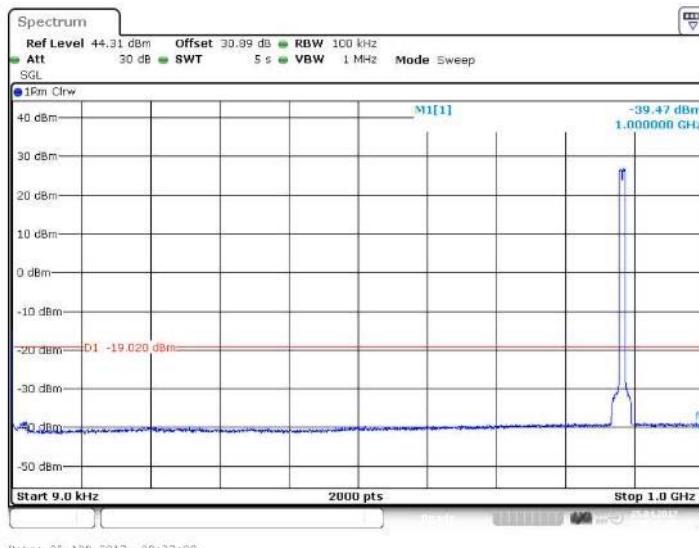


Figure 242 Spurious Emissions (9kHz – 1GHz) – 256QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

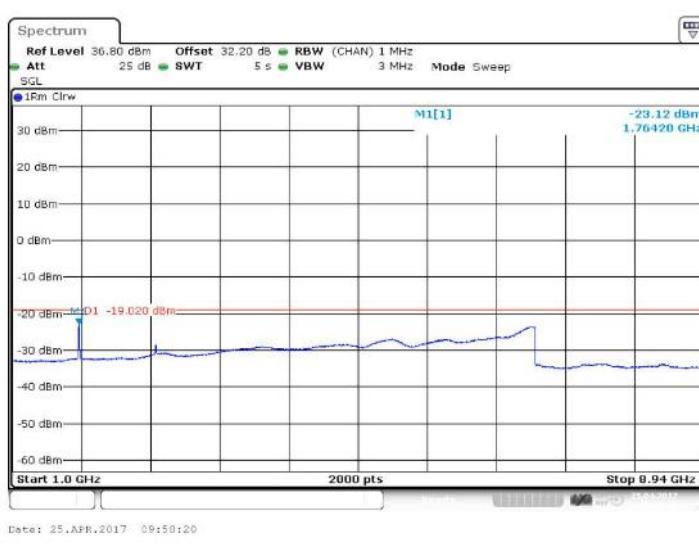


Figure 243 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)