



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config B ANT4:

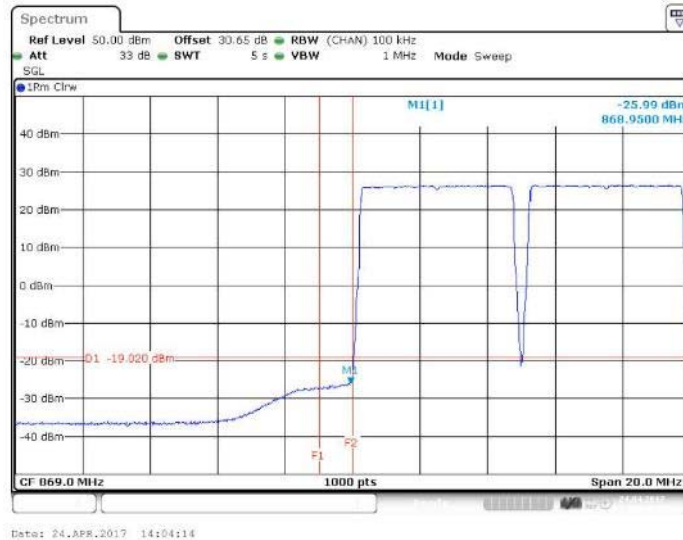


Figure 244 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876,5 MHz, 2 X 5 MHz Channel BW)

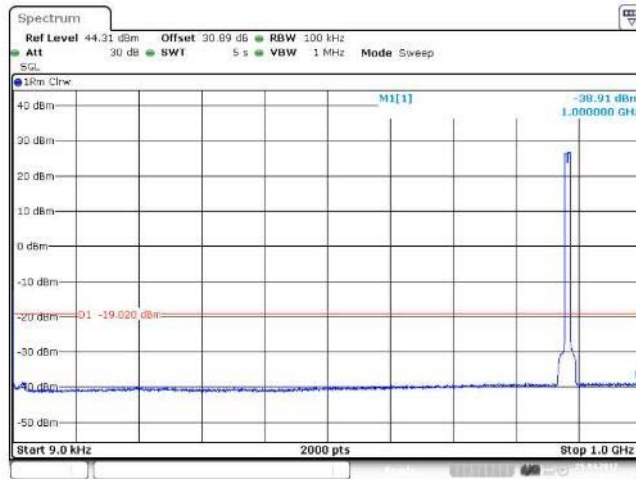


Figure 245 Spurious Emissions (Upper Band Edge) – QPSK (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



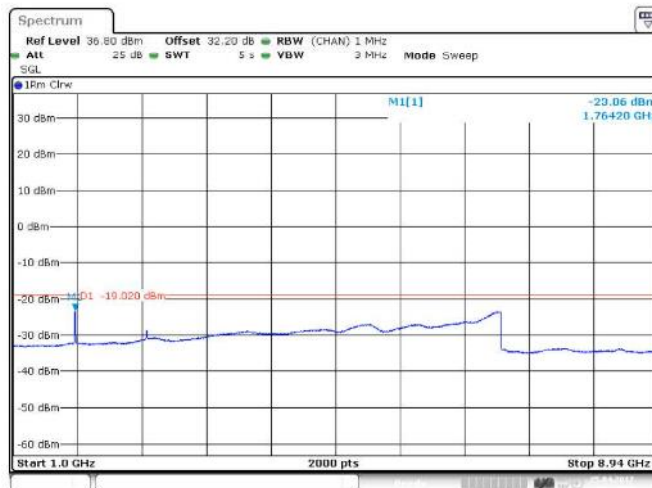
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 25.APR.2017 09:41:50

Figure 246 Spurious Emissions (9kHz – 1GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



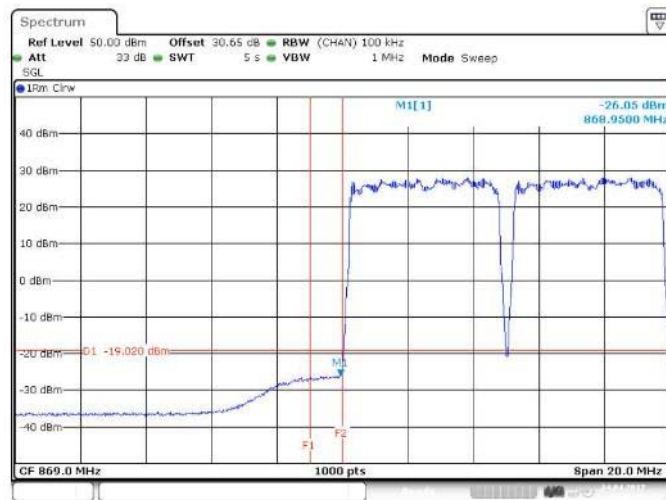
Date: 25.APR.2017 09:12:10

Figure 247 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



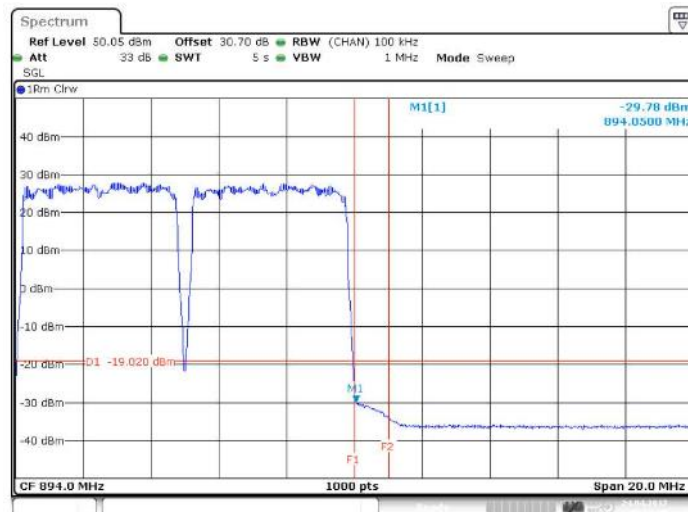
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 24.APR.2017 14:09:36

Figure 248 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876,5 MHz, 2 X 5 MHz Channel BW)



Date: 24.APR.2017 15:19:08

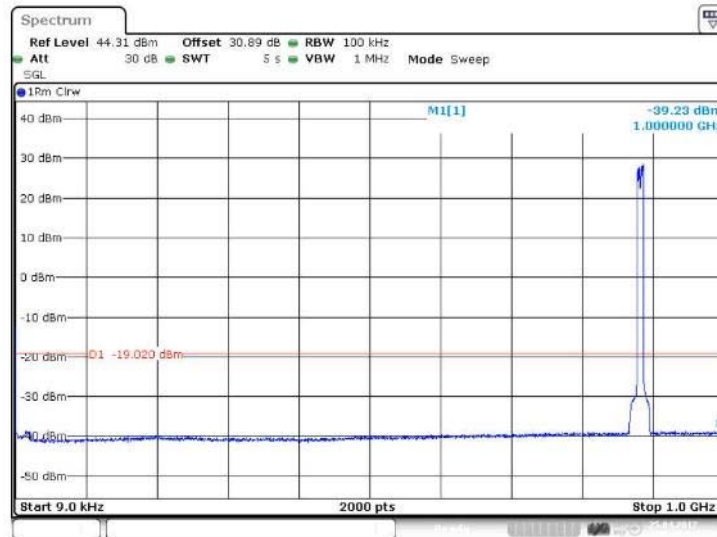
Figure 249 Spurious Emissions (Upper Band Edge) – 16QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



Product Service

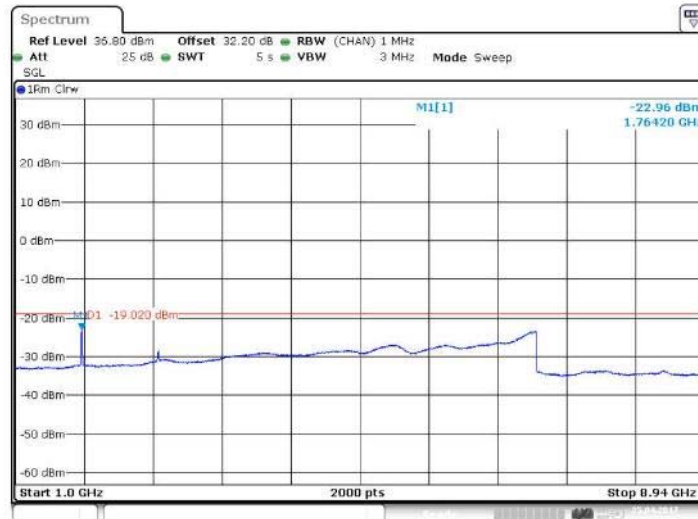
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 25.APR.2017 08:45:34

Figure 250 Spurious Emissions (9kHz – 1GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Date: 25.APR.2017 09:16:02

Figure 251 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

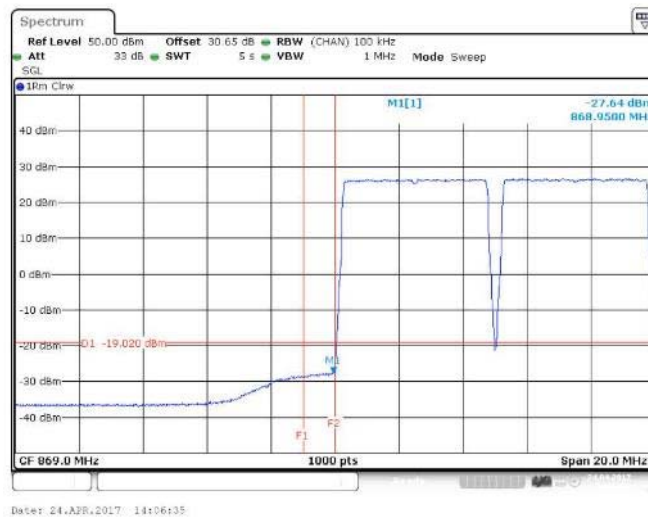


Figure 252 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876,5 MHz, 2 X 5 MHz Channel BW)

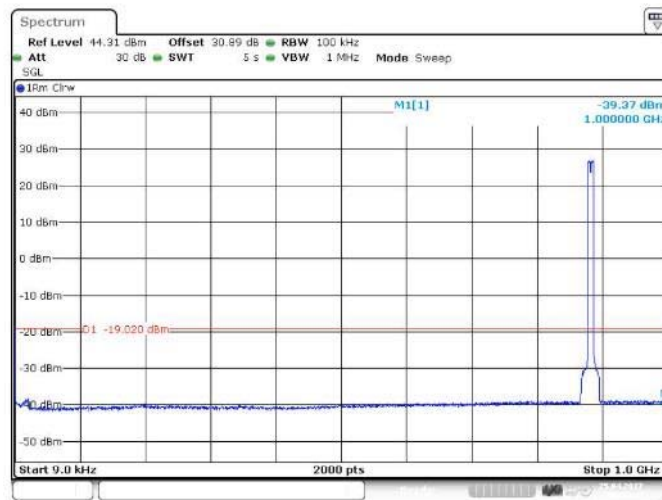


Figure 253 Spurious Emissions (Upper Band Edge) – 64QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



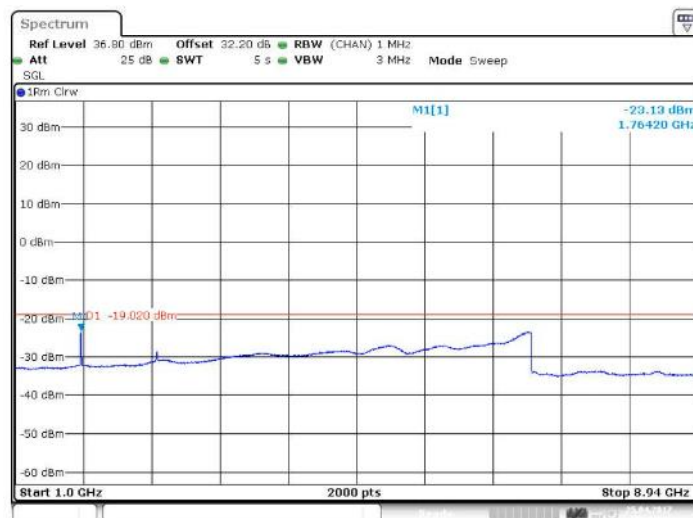
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 25.APR.2017 08:42:41

Figure 254 Spurious Emissions (9kHz – 1GHz) – 64QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



Date: 25.APR.2017 09:14:17

Figure 255 Spurious Emissions (1 GHz – 8.94 GHz) – 64 QAM(879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

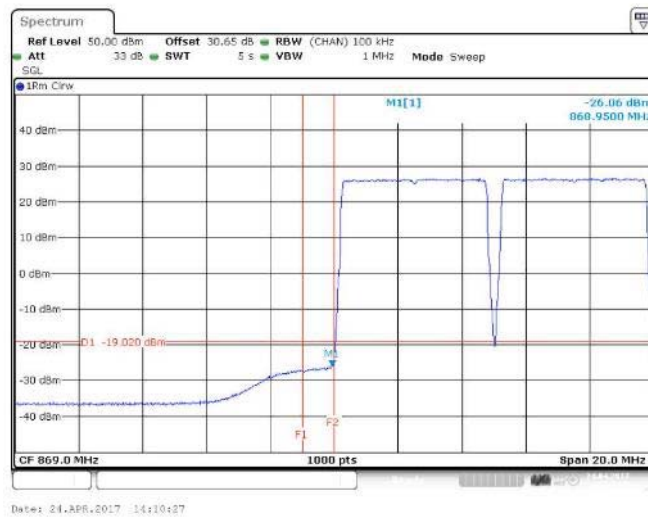


Figure 256 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876,5 MHz, 2 X 5 MHz Channel BW)

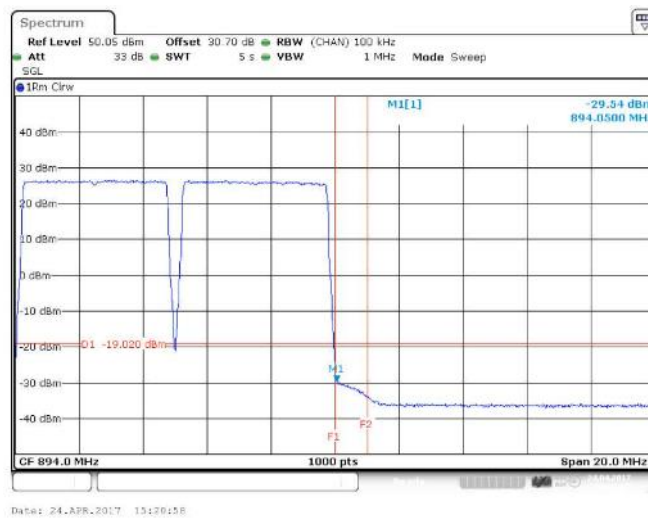


Figure 257 Spurious Emissions (Upper Band Edge) – 256QAM (886.5 MHz, 891.5 MHz, 2 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

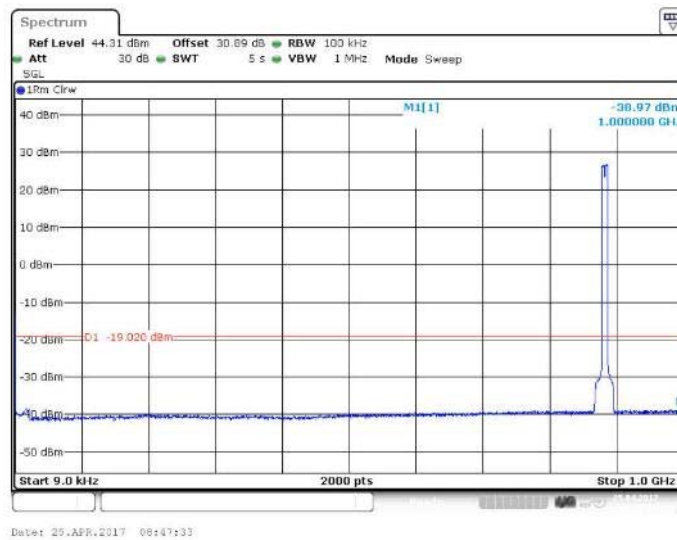


Figure 258 Spurious Emissions (9kHz – 1GHz) – 256QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)

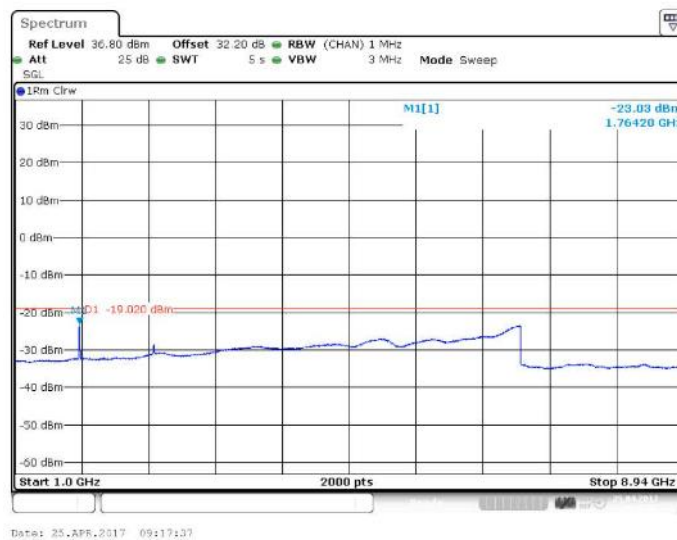


Figure 259 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (879 MHz, 884 MHz, 2 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config C ANT1:

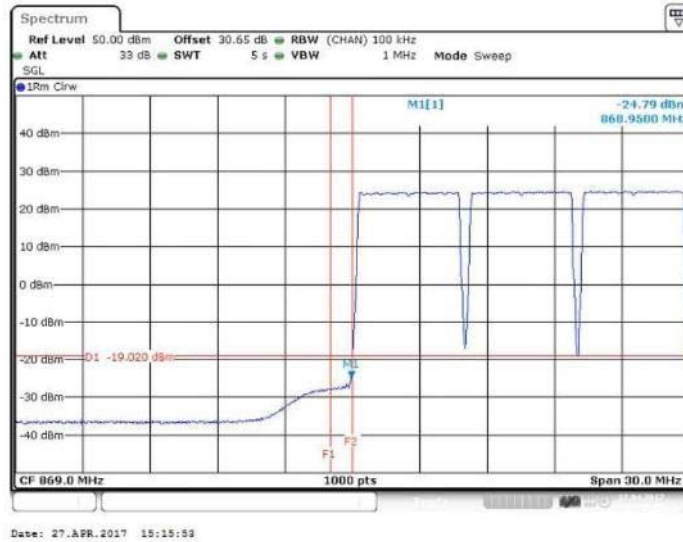


Figure 260 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

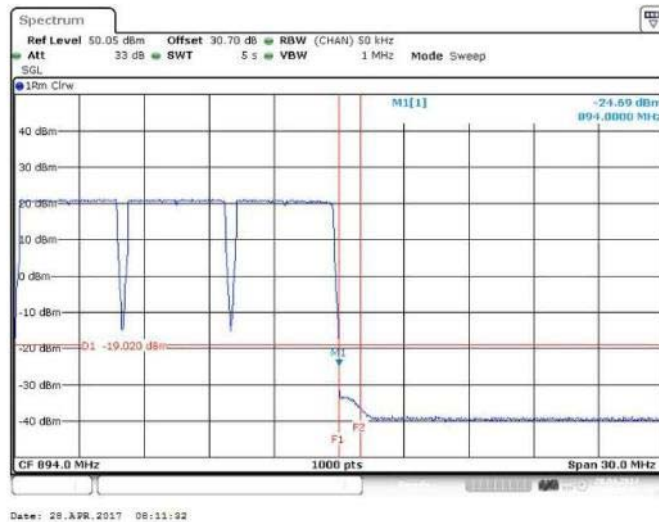
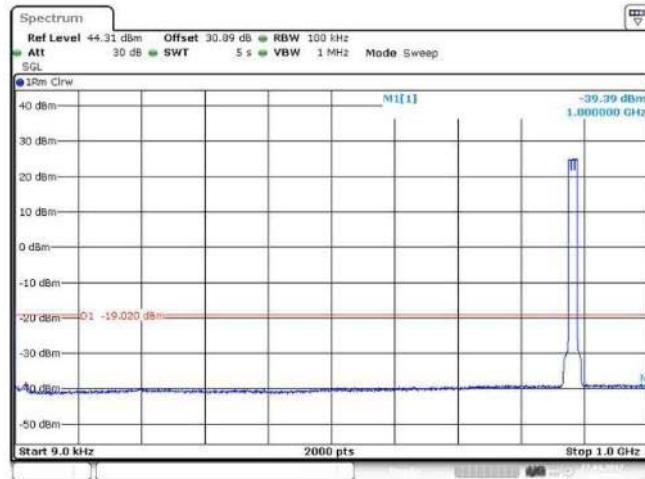


Figure 261 Spurious Emissions (Upper Band Edge) – QPSK (881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



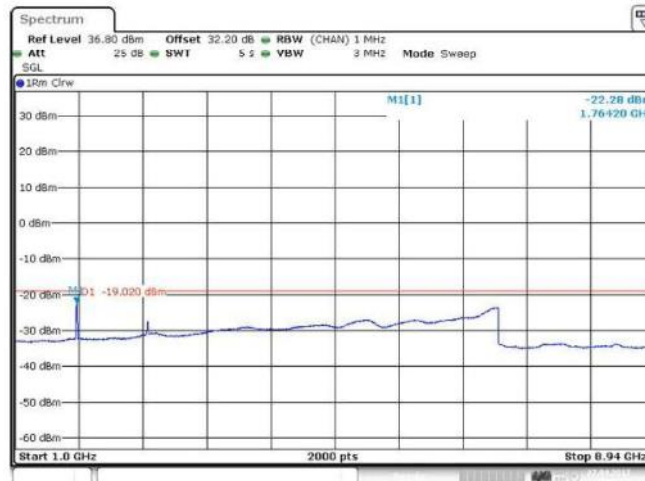
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 11:29:01

Figure 262 Spurious Emissions (9kHz – 1GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 13:28:45

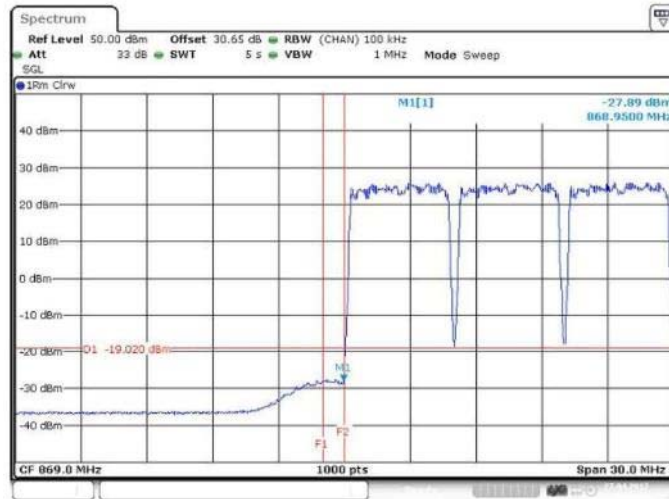
Figure 263 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Product Service

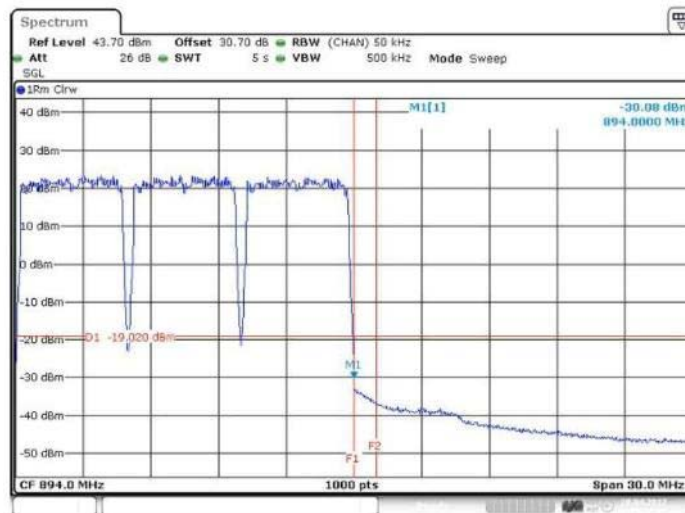
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 15:20:33

Figure 264 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)



Date: 28.APR.2017 08:29:02

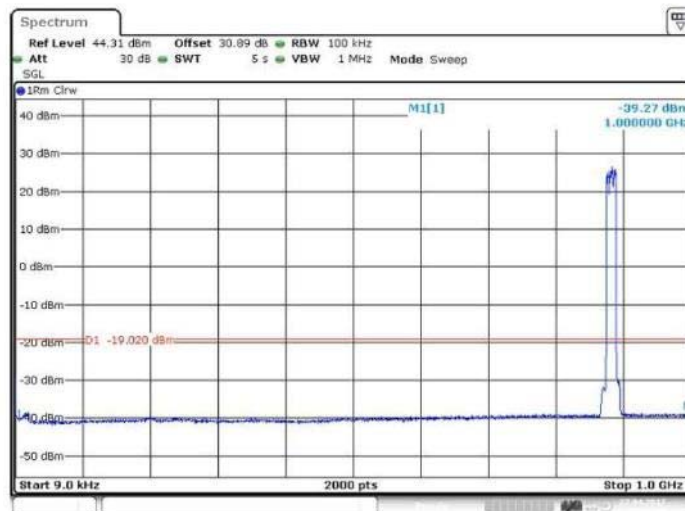
Figure 265 Spurious Emissions (Upper Band Edge) 16QAM (881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



Product Service

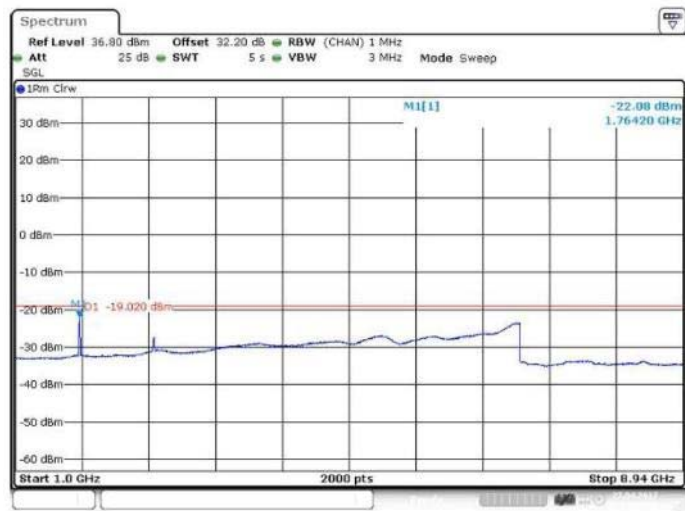
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:02:00

Figure 266 Spurious Emissions (9kHz – 1GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 14:07:29

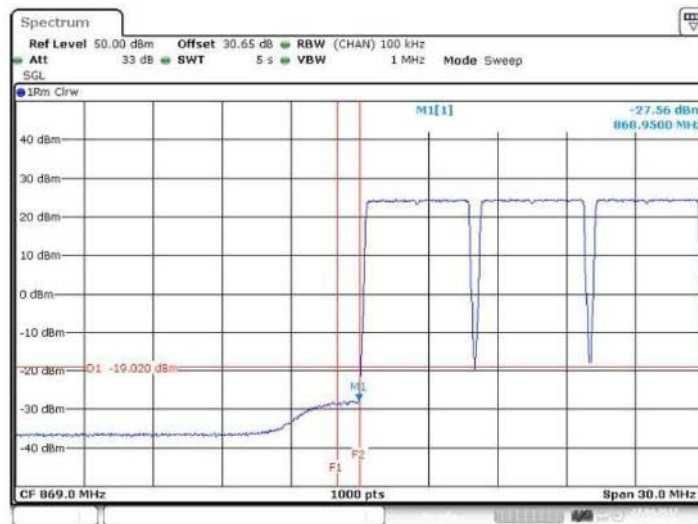
Figure 267 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Product Service

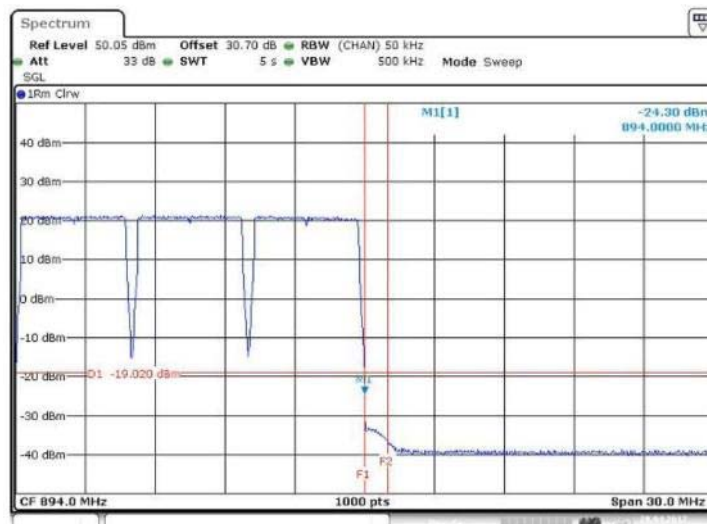
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 15:18:21

Figure 268 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)



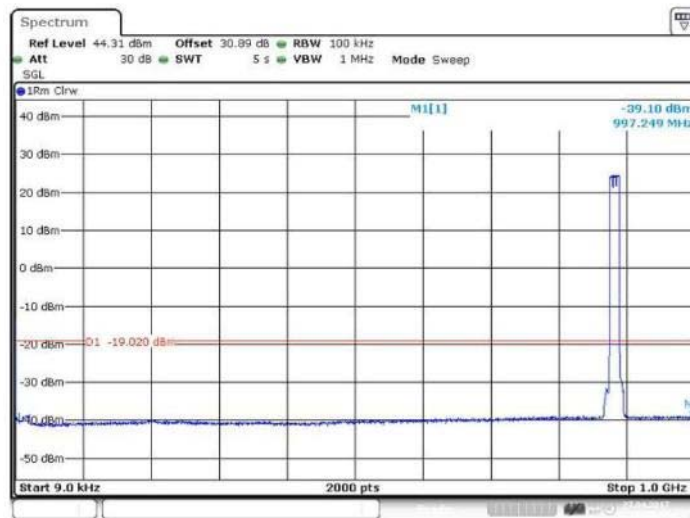
Date: 28.APR.2017 08:15:01

Figure 269 Spurious Emissions (Upper Band Edge) – 64QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



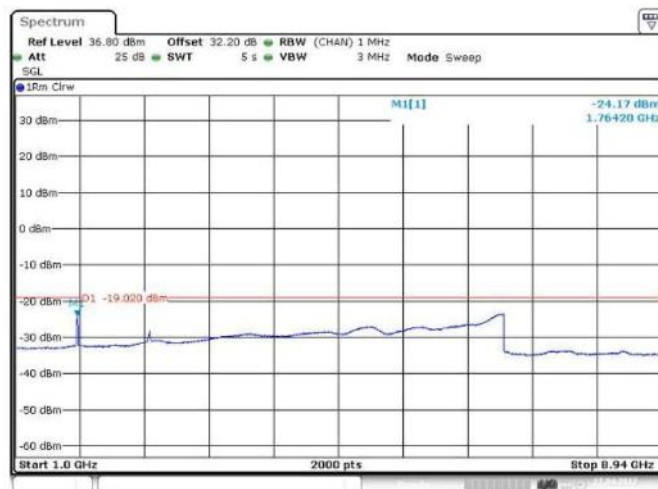
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:00:44

Figure 270 Spurious Emissions (9kHz – 1GHz) – 64QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 19:56:06

Figure 271 Spurious Emissions (1 GHz – 8.94 GHz) 64QAM(876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

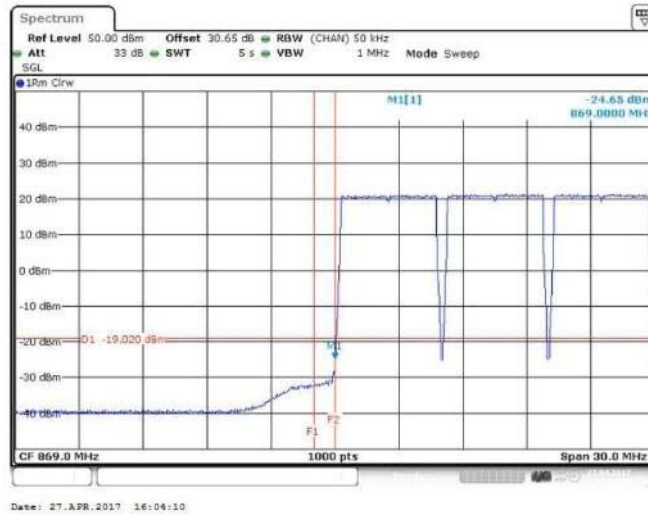


Figure 272 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

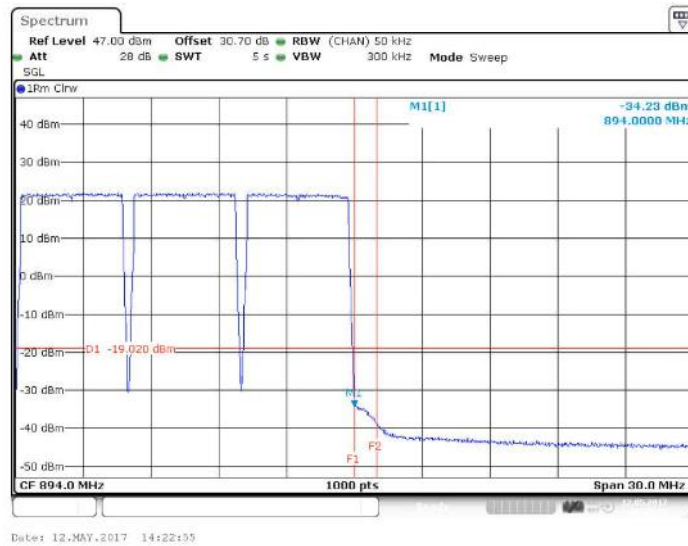
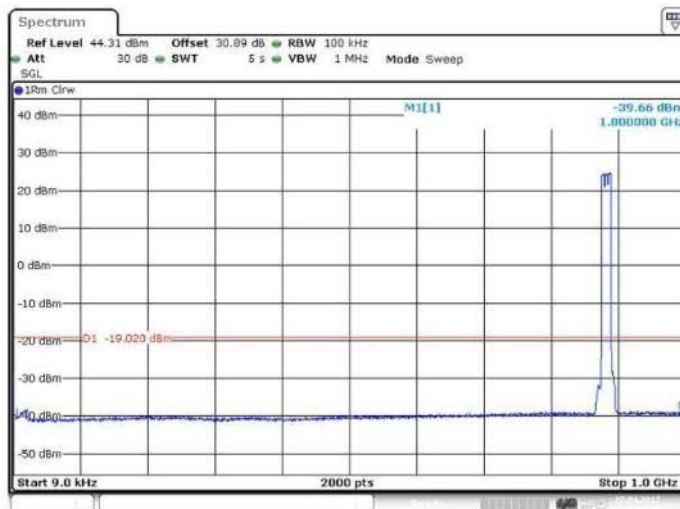


Figure 273 Spurious Emissions (Upper Band Edge) – 256QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



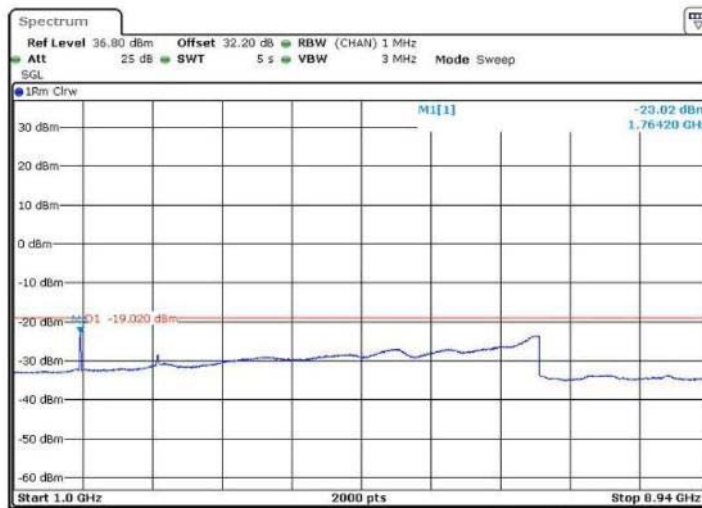
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:05:08

Figure 274 Spurious Emissions (9kHz – 1GHz) – (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 14:37:07

Figure 275 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config C ANT2:

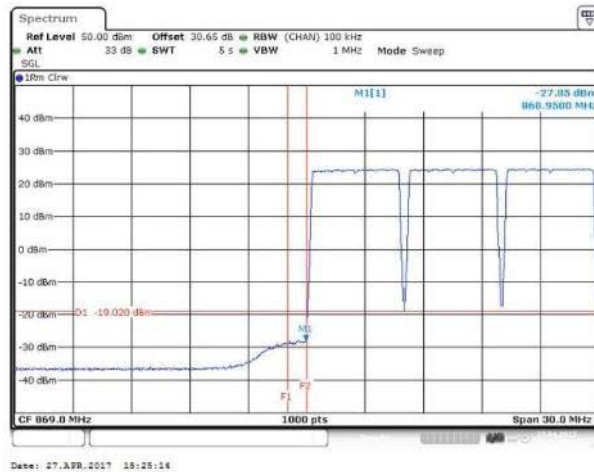


Figure 276 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876.5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

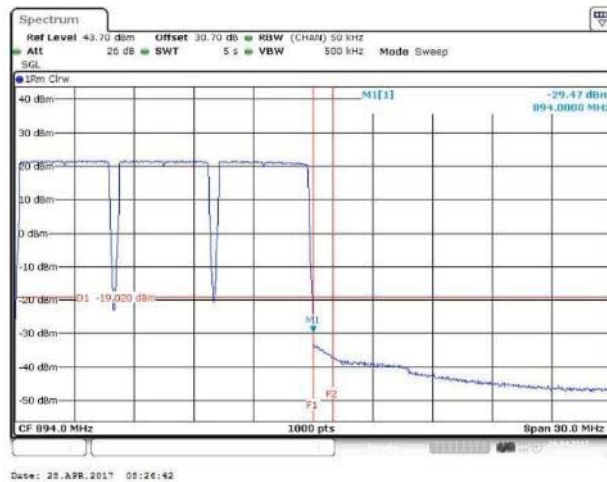


Figure 277 Spurious Emissions (Upper Band Edge) – QPSK (881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

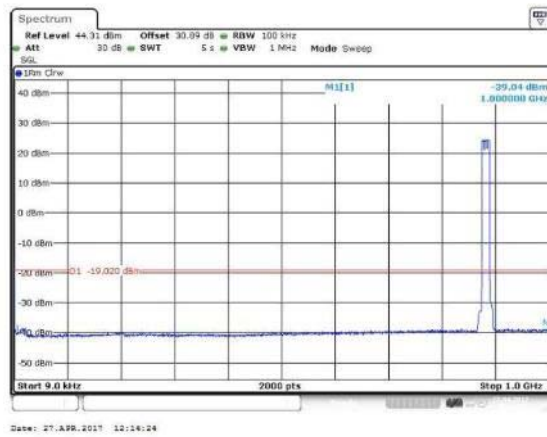


Figure 278 Spurious Emissions (9kHz – 1GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)

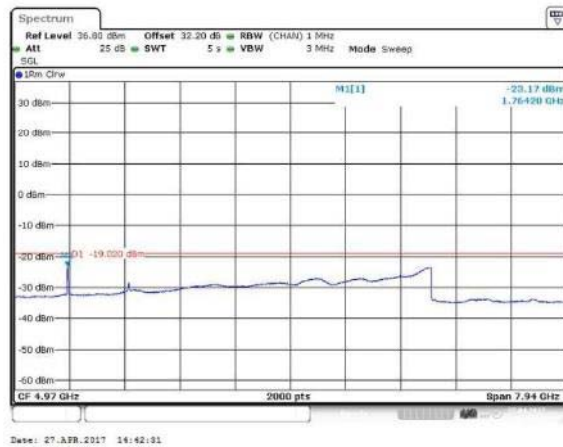


Figure 279 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

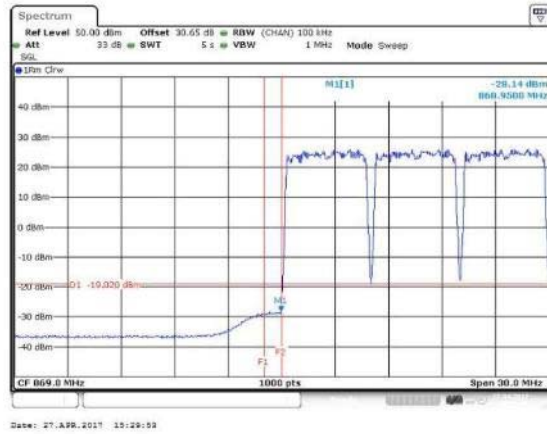


Figure 280 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

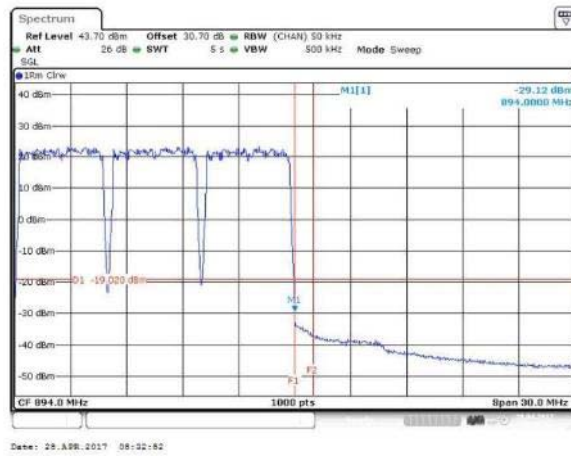


Figure 281 Spurious Emissions (Upper Band Edge) 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

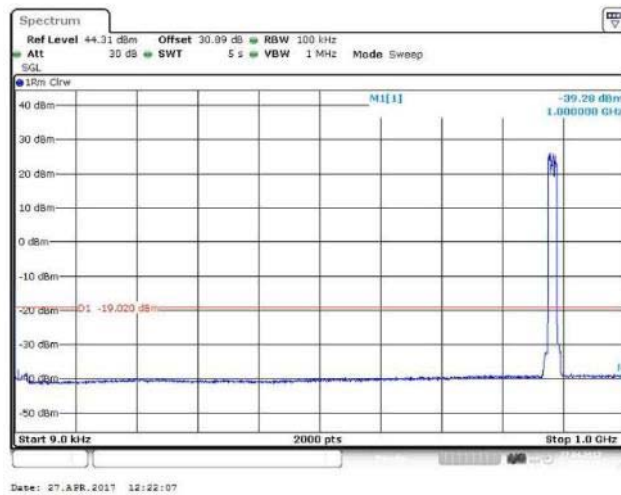


Figure 282 Spurious Emissions (9kHz – 1GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)

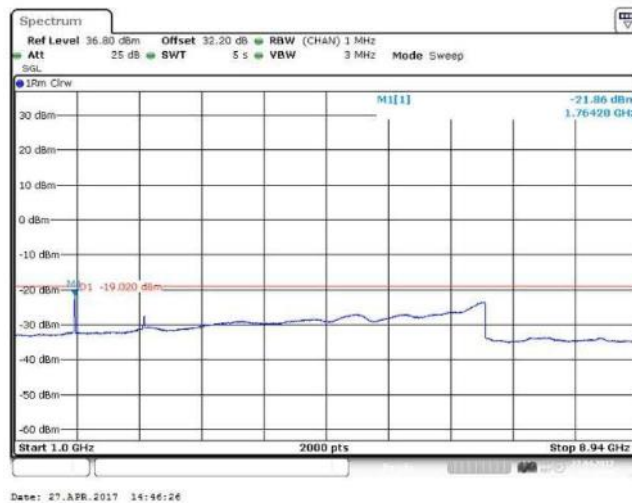


Figure 283 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

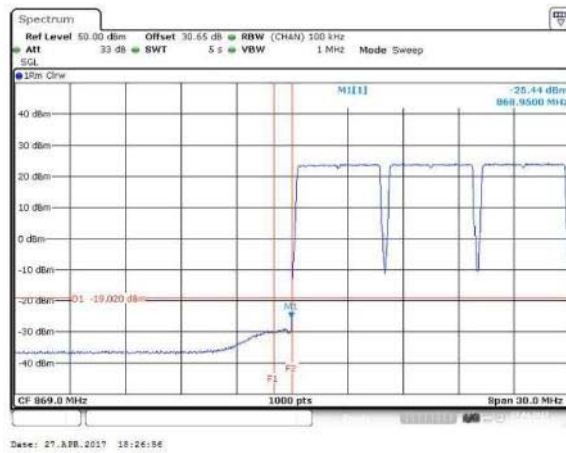


Figure 284 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

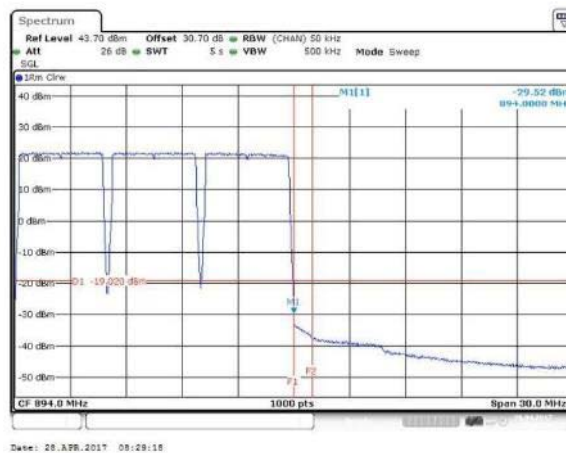
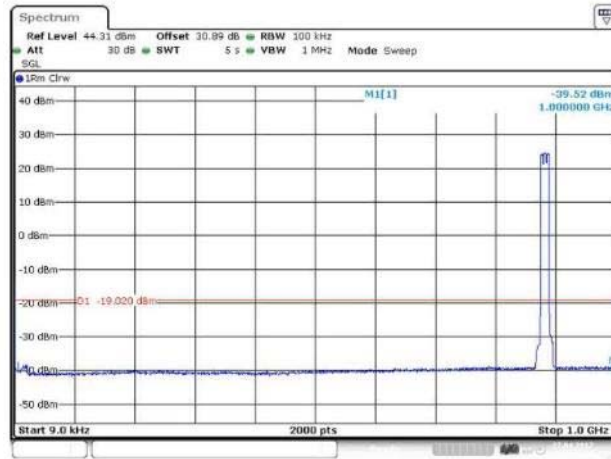


Figure 285 Spurious Emissions (Upper Band Edge) – 64QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



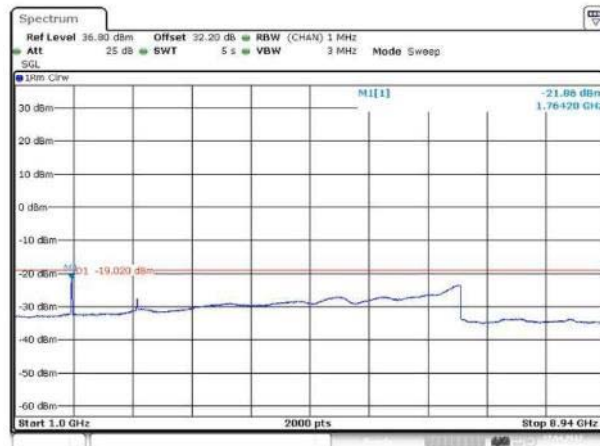
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:16:53

Figure 286 Spurious Emissions (9kHz – 1GHz) – 64QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 14:46:26

Figure 287 Spurious Emissions (1 GHz – 8.94 GHz) 64QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

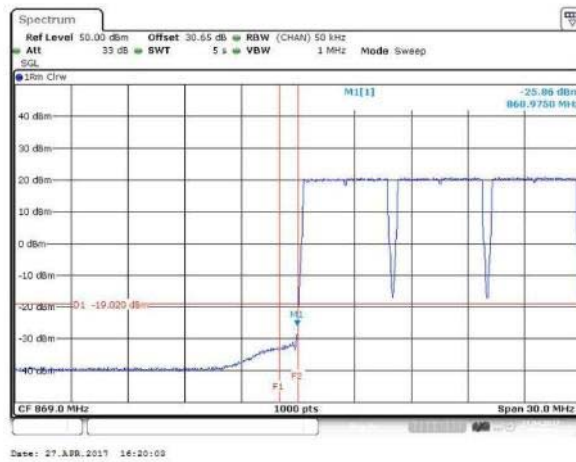


Figure 288 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876.5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

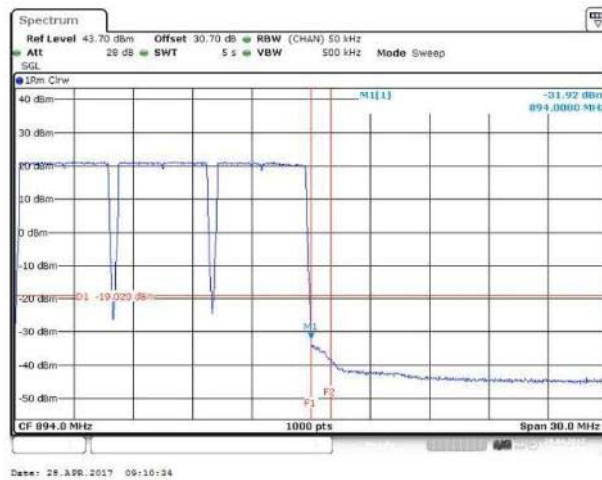
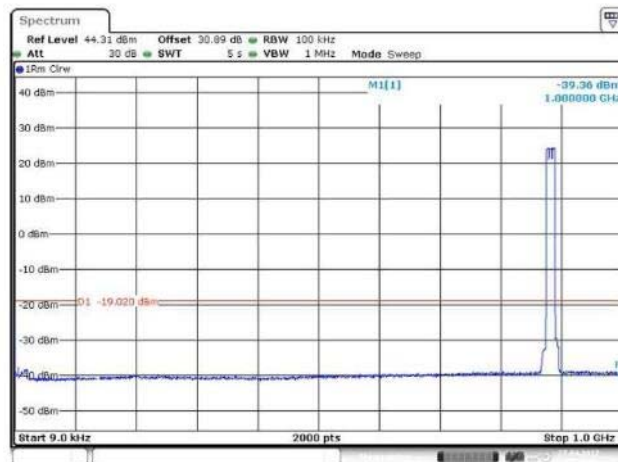


Figure 289 Spurious Emissions (Upper Band Edge) – 256QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



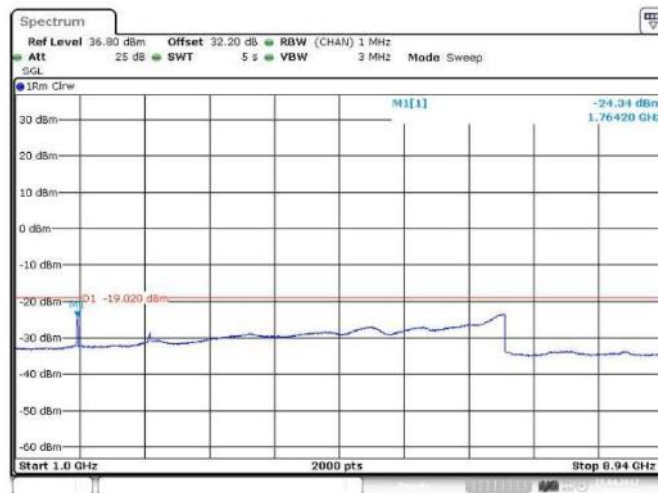
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:20:02

Figure 290 Spurious Emissions (9kHz – 1GHz) – 256QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 14:40:18

Figure 291 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config C ANT3:

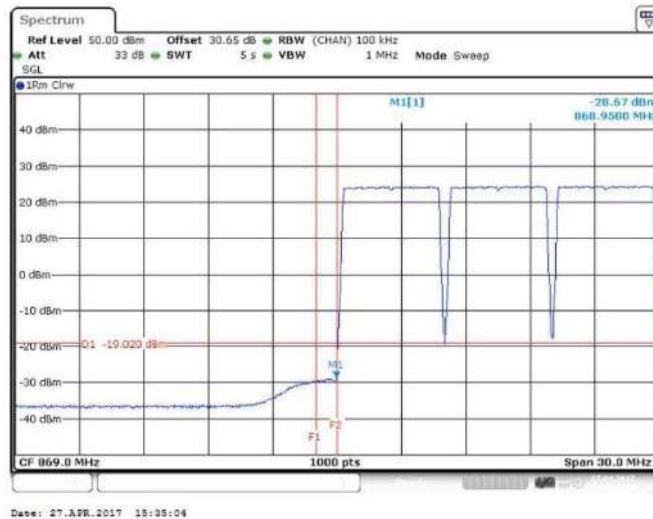


Figure 292 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

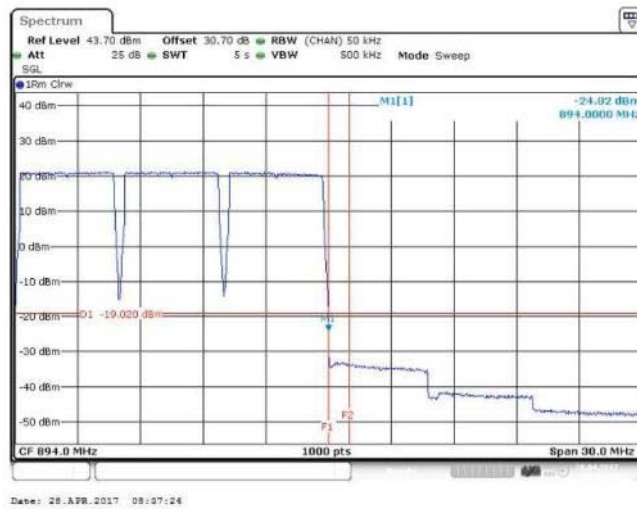
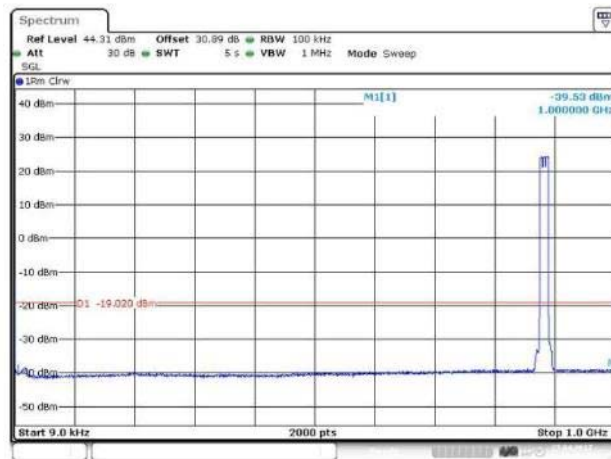


Figure 293 Spurious Emissions (Upper Band Edge) – QPSK (881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



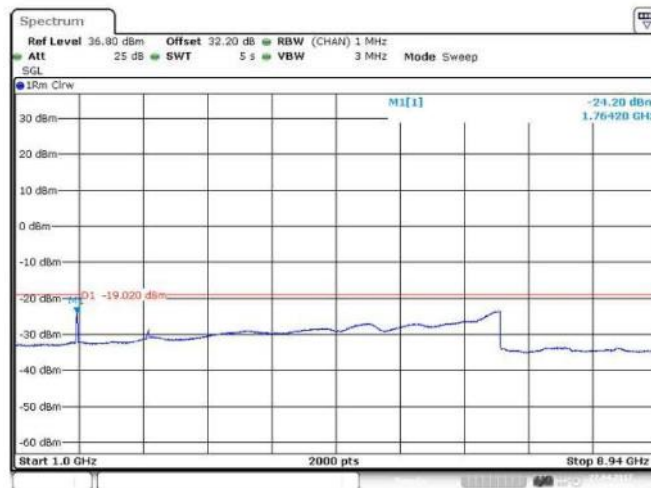
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:20:10

Figure 294 Spurious Emissions (9kHz – 1GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



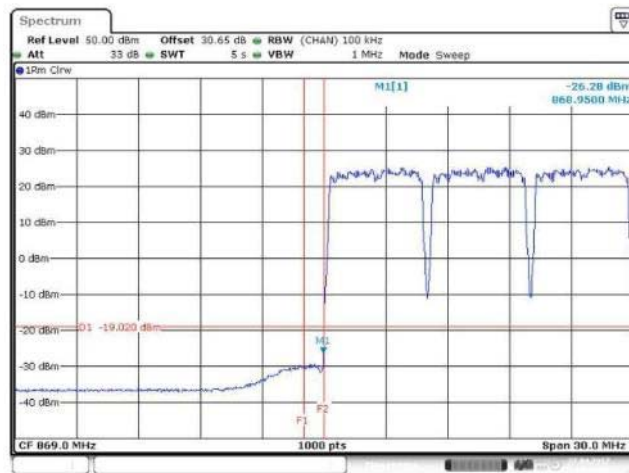
Date: 27.APR.2017 14:52:06

Figure 295 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



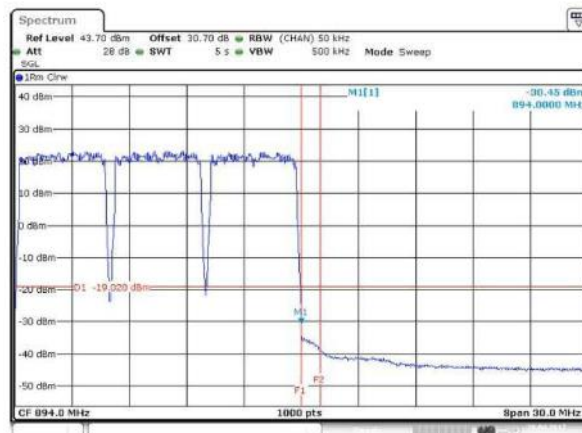
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 10:39:04

Figure 296 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)



Date: 28.APR.2017 08:42:57

Figure 297 Spurious Emissions (Upper Band Edge) 16QAM (881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

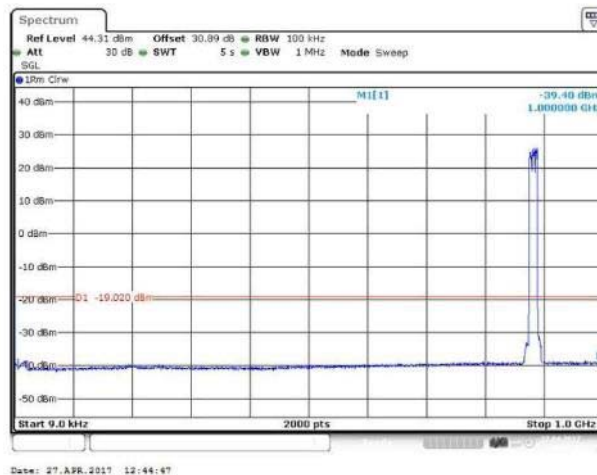


Figure 298 Spurious Emissions (9kHz – 1GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)

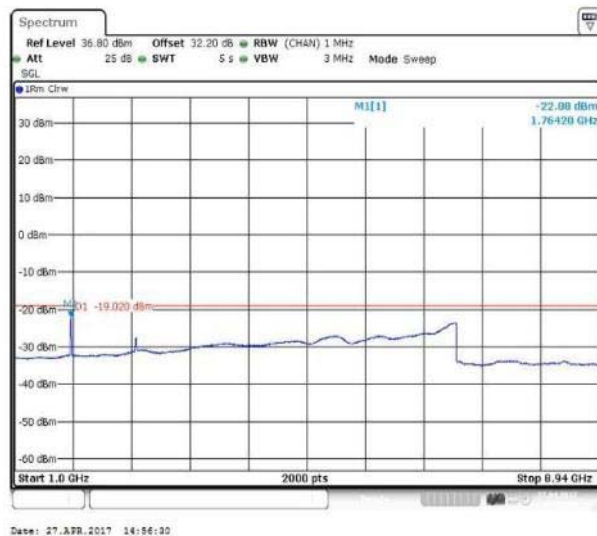


Figure 299 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

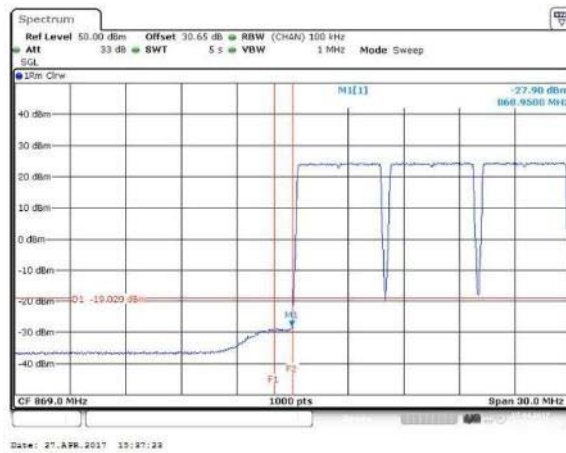


Figure 300 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

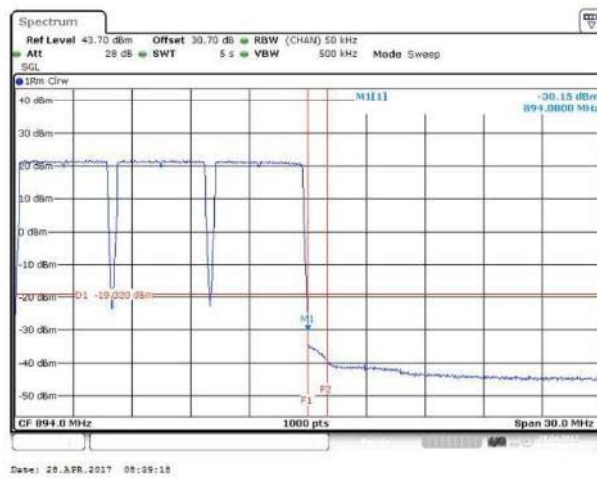


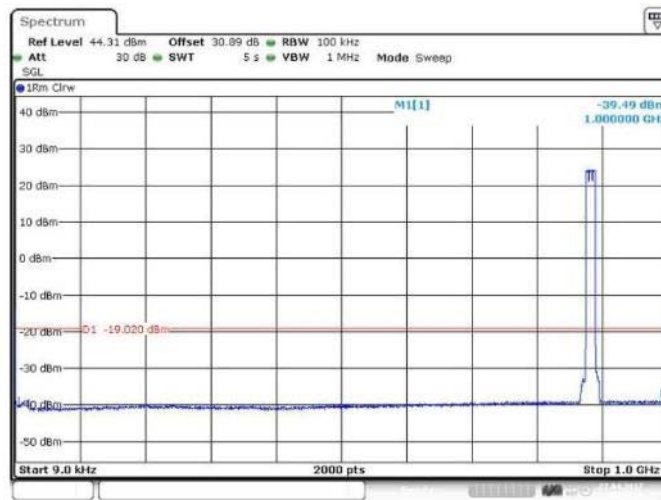
Figure 301 Spurious Emissions (Upper Band Edge) – 64QAM (881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



Product Service

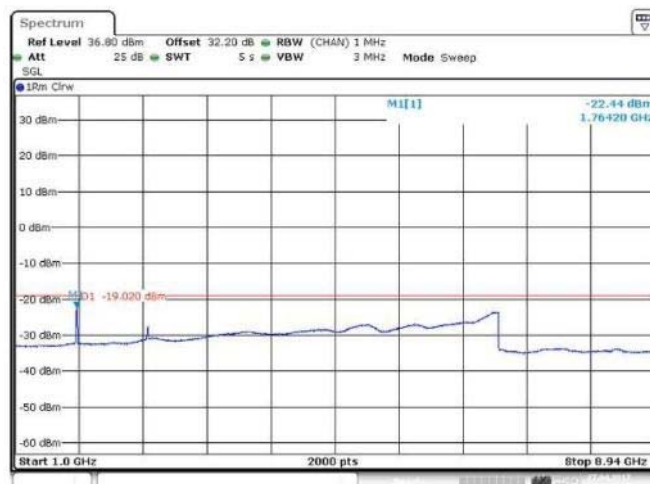
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:00:03

Figure 302 Spurious Emissions (9kHz – 1GHz) – 64QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 14:50:52

Figure 303 Spurious Emissions (1 GHz – 8.94 GHz) 64QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

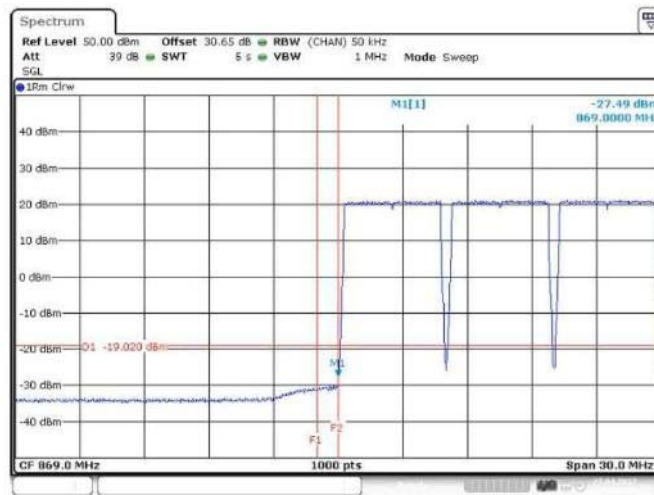


Figure 304 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

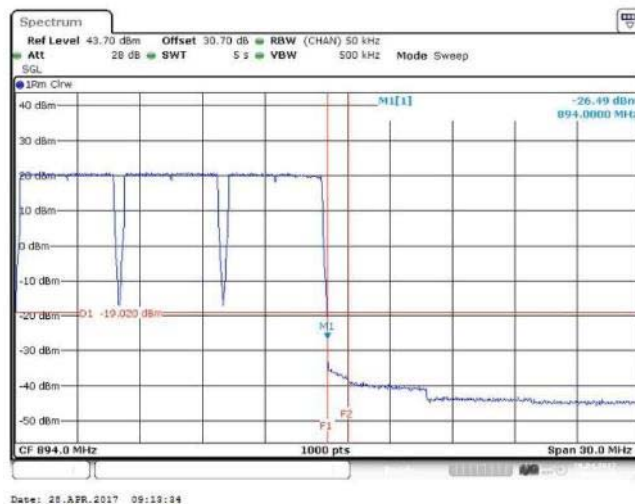
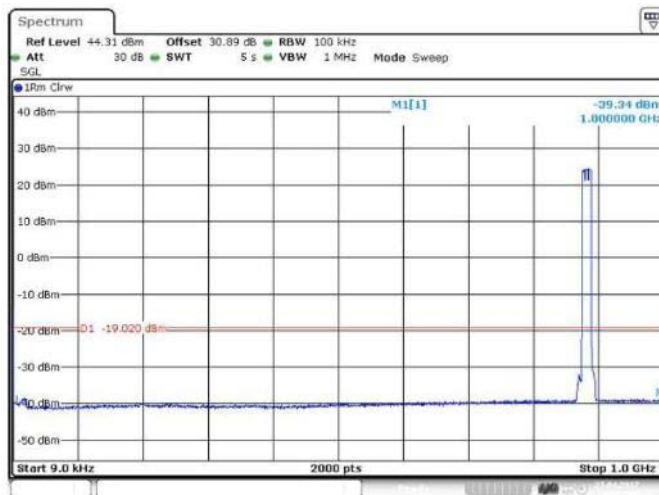


Figure 305 Spurious Emissions (Upper Band Edge) – 256QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 12:56:08

Figure 306 Spurious Emissions (9kHz – 1GHz) – 256QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 14:59:16

Figure 307 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config C ANT4:

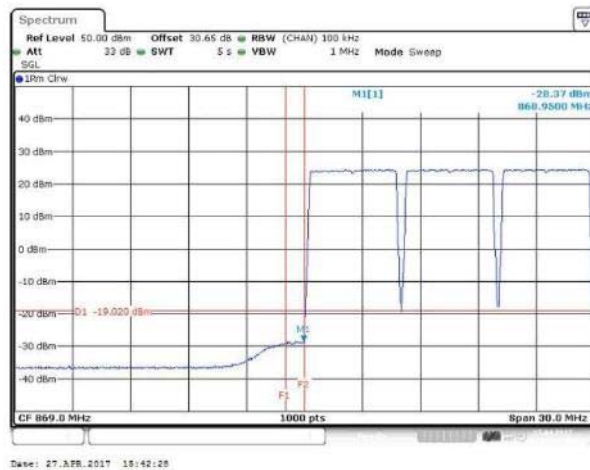


Figure 308 Spurious Emissions (Lower Band Edge) – QPSK (871.5 MHz, 876.5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

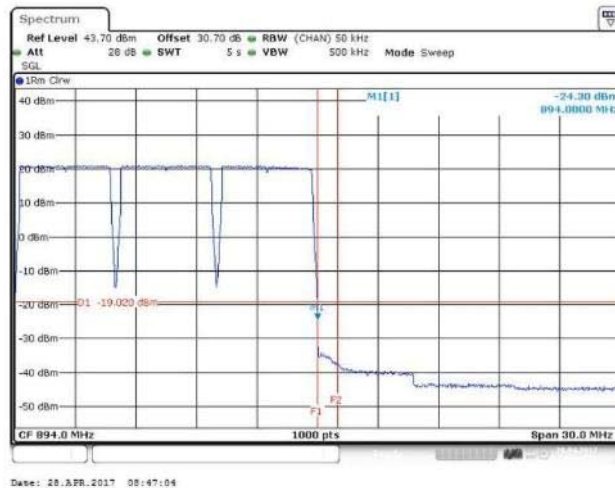


Figure 309 Spurious Emissions (Upper Band Edge) – QPSK (881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

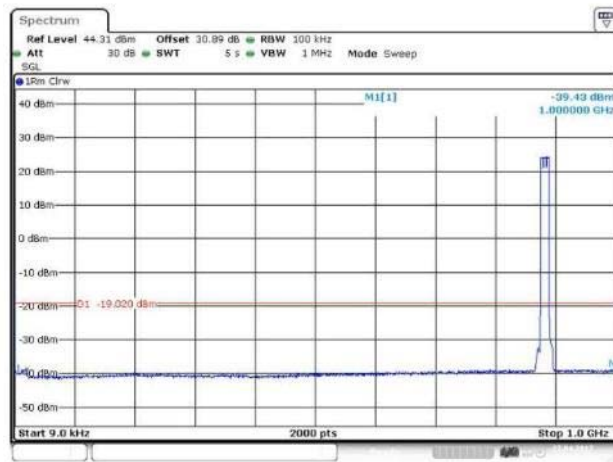


Figure 310 Spurious Emissions (9kHz – 1GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)

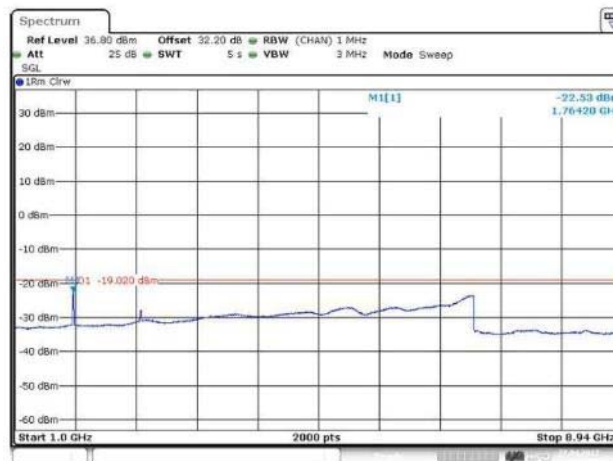
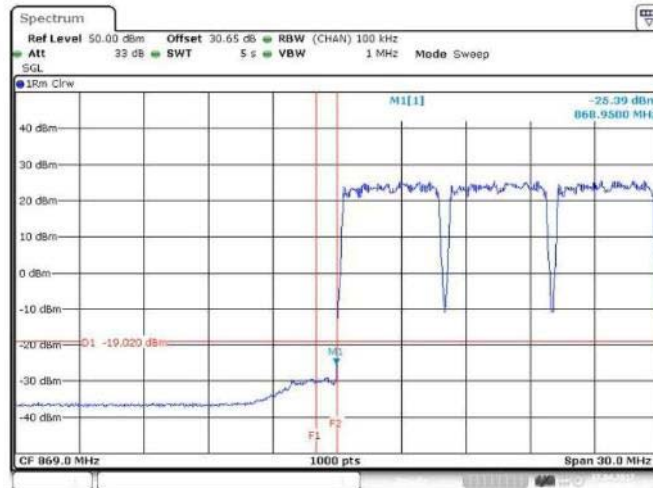


Figure 311 Spurious Emissions (1 GHz – 8.94 GHz) – QPSK (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



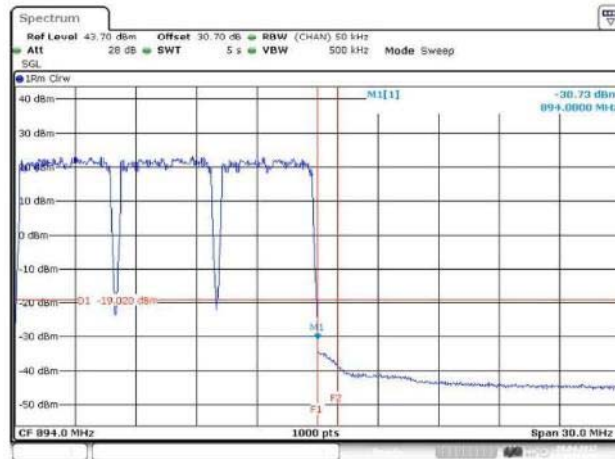
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 15:46:19

Figure 312 Spurious Emissions (Lower Band Edge) – 16QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)



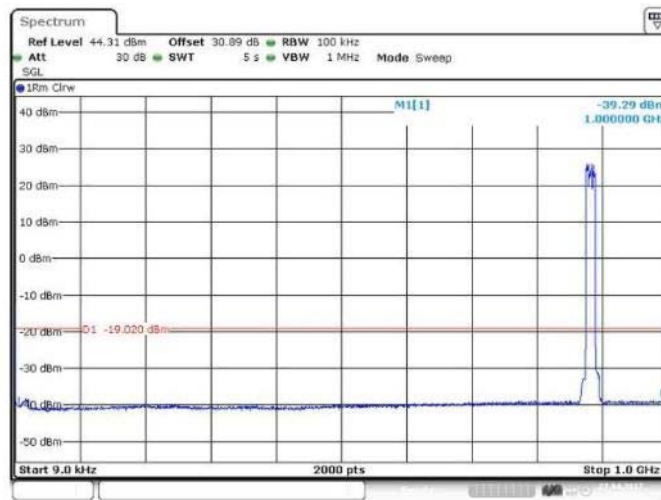
Date: 28.APR.2017 09:51:31

Figure 313 Spurious Emissions (Upper Band Edge) 16QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



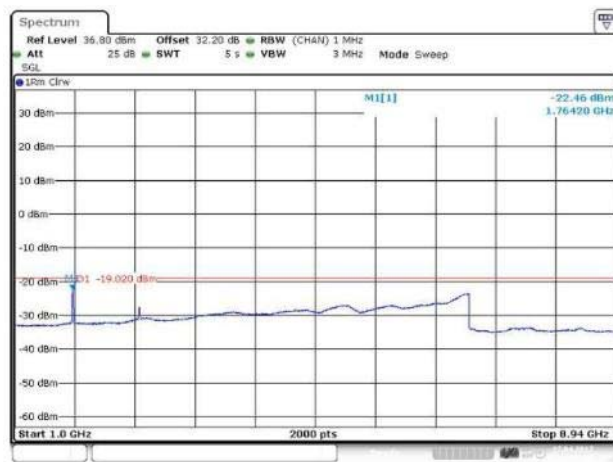
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 13:06:01

Figure 314 Spurious Emissions (9kHz – 1GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 13:21:03

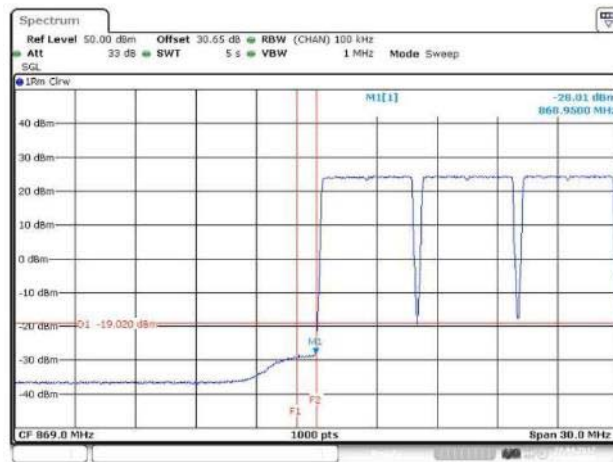
Figure 315 Spurious Emissions (1 GHz – 8.94 GHz) – 16QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Product Service

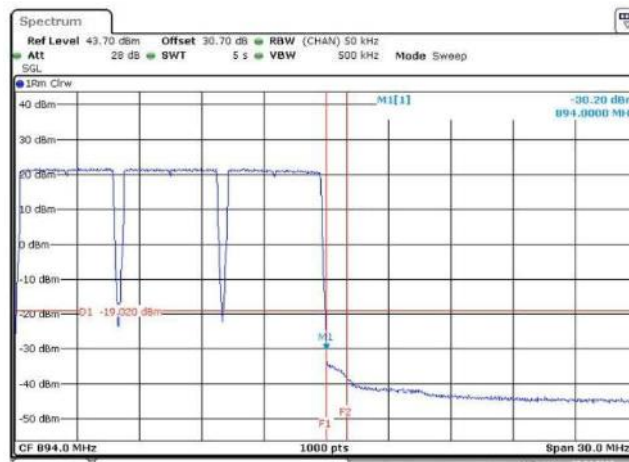
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 15:44:31

Figure 316 Spurious Emissions (Lower Band Edge) – 64QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)



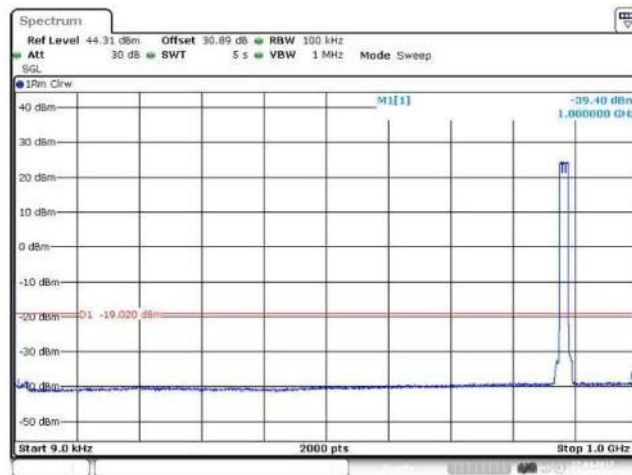
Date: 28.APR.2017 09:49:35

Figure 317 Spurious Emissions (Upper Band Edge) – 64QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 13:02:28

Figure 318 Spurious Emissions (9kHz – 1GHz) – 64QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 13:19:09

Figure 319 Spurious Emissions (1 GHz – 8.94 GHz) 64QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Product Service

FCC ID:
VBNAHCA-01

Test Report No:
D555647736

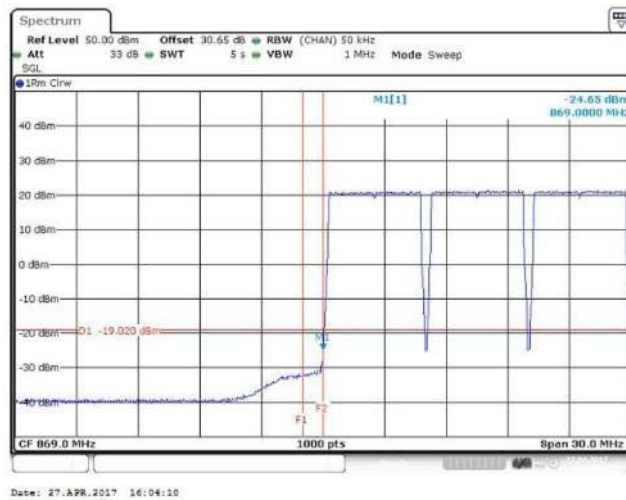


Figure 320 Spurious Emissions (Lower Band Edge) – 256QAM (871.5 MHz, 876,5 MHz, 881.5 MHz, 3 X 5 MHz Channel BW)

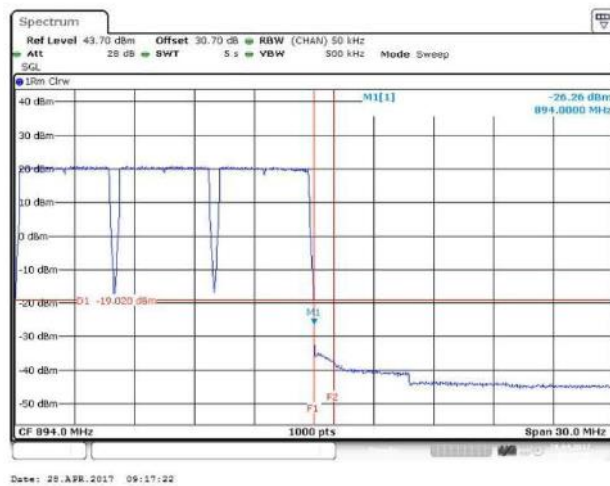
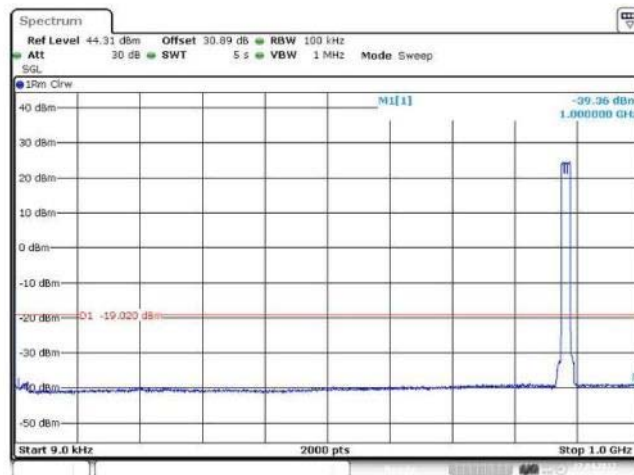


Figure 321 Spurious Emissions (Upper Band Edge) – 256QAM 881.5 MHz, 886.5 MHz, 891.5 MHz, 3 X 5 MHz Channel BW)



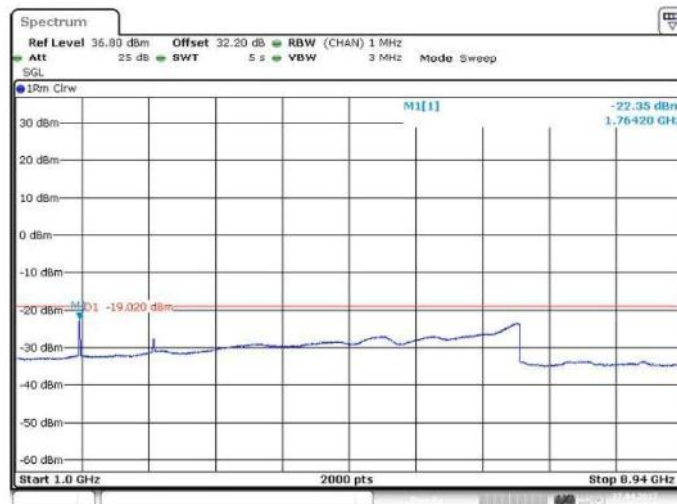
FCC ID:
VBNAHCA-01

Test Report No:
D555647736



Date: 27.APR.2017 18:06:24

Figure 322 Spurious Emissions (9kHz – 1GHz) – 256QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



Date: 27.APR.2017 18:29:51

Figure 323 Spurious Emissions (1 GHz – 8.94 GHz) – 256QAM (876.5 MHz, 881.5 MHz, 886.5 MHz, 3 X 5 MHz Channel BW)



FCC ID:
VBNAHCA-01

Test Report No:
D555647736

Config D ANT1:

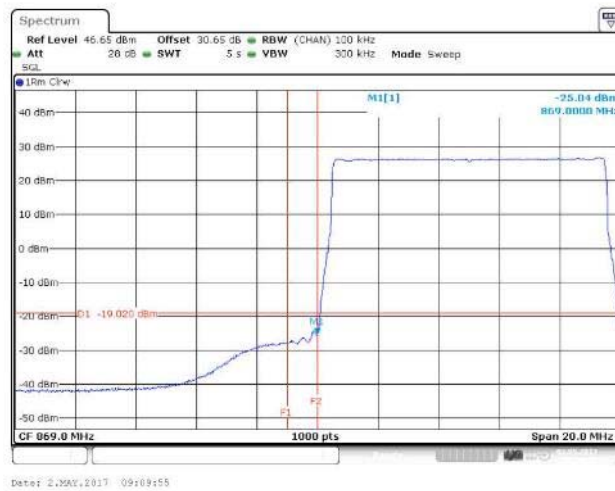


Figure 324 Spurious Emissions (Lower Band Edge) – QPSK (874 MHz, 5 MHz Channel BW)

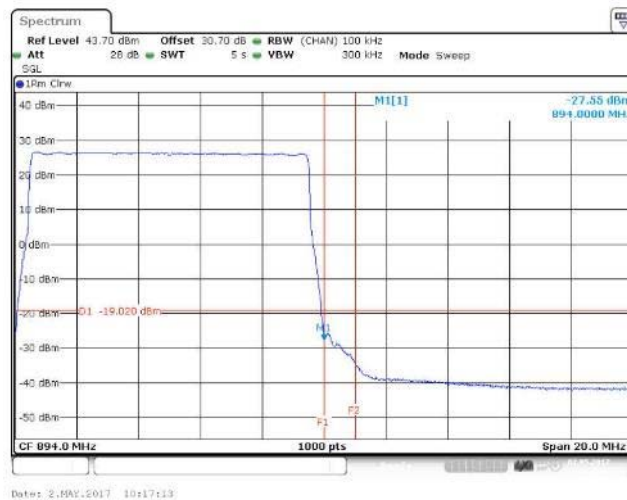


Figure 325 Spurious Emissions (Upper Band Edge) – QPSK (889.0 MHz, 5 MHz Channel BW)