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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

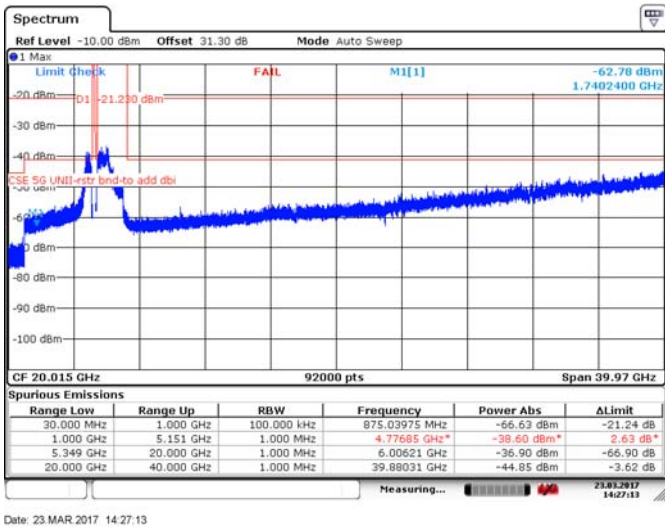


Figure 8.4-217: Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, cho, BPSK

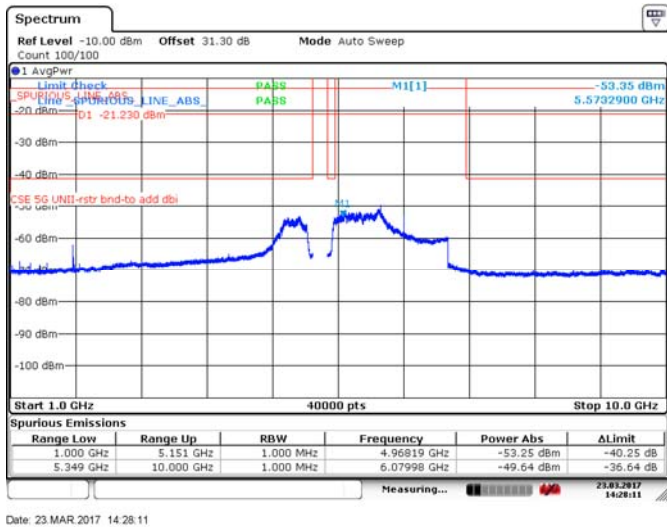


Figure 8.4-218: Average Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, cho, BPSK

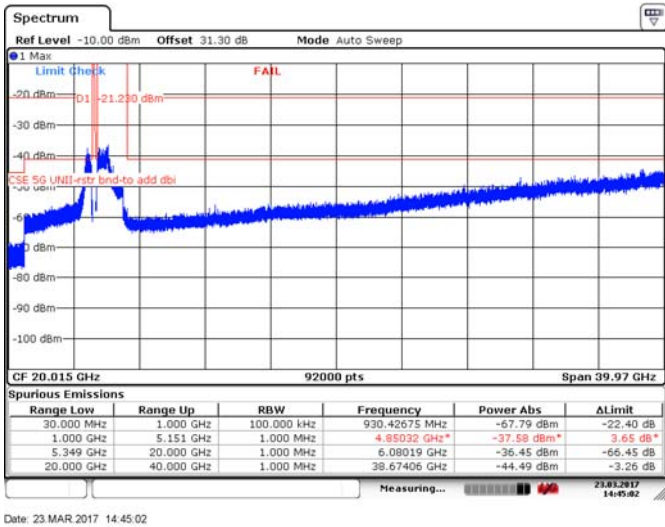


Figure 8.4-219: Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, cho, 256QAM

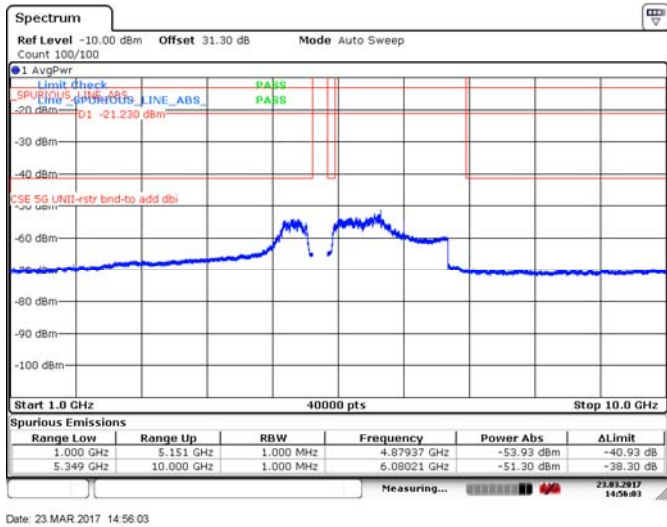


Figure 8.4-220: Average Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, cho, 256QAM

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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

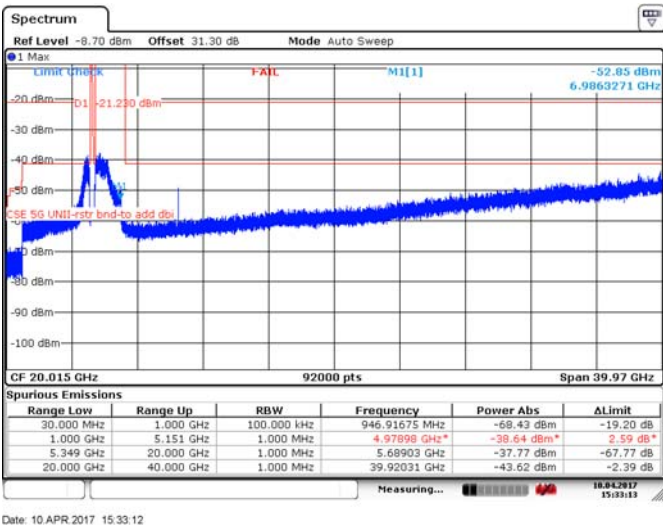


Figure 8.4-221: Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, ch1, BPSK

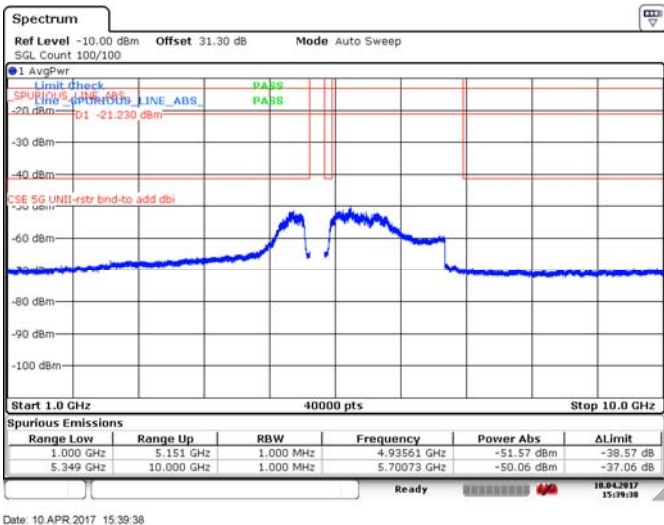


Figure 8.4-222: Average Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, ch1, BPSK

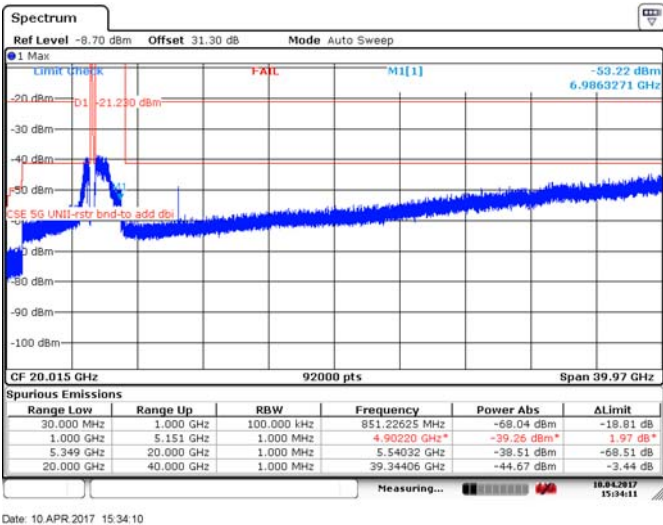


Figure 8.4-223: Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, ch1, 256QAM

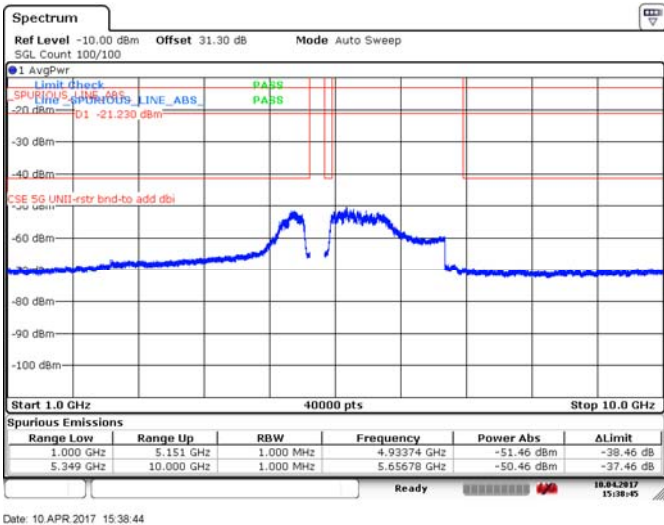


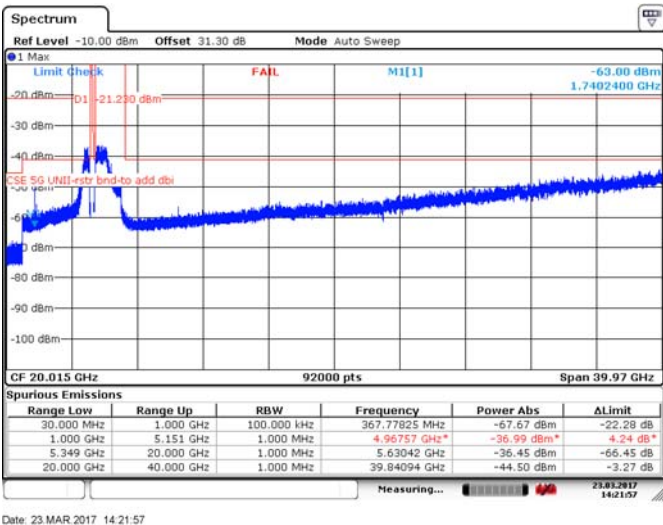
Figure 8.4-224: Average Spurious emissions within restricted bands, 10 MHz channel, low channel, 32 dBi antenna, ch1, 256QAM

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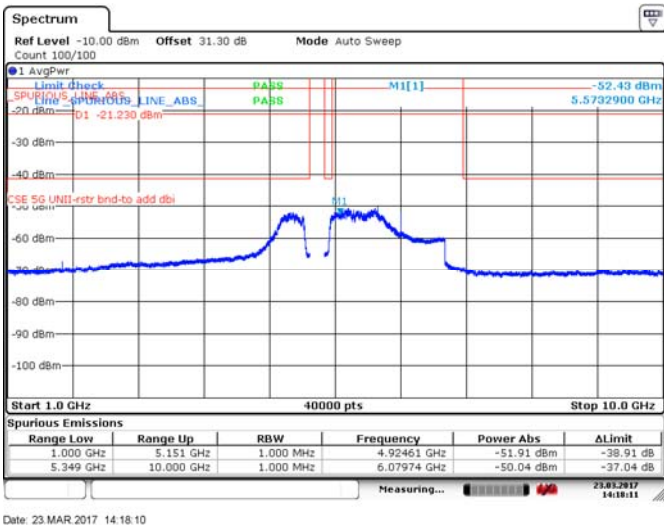


Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm



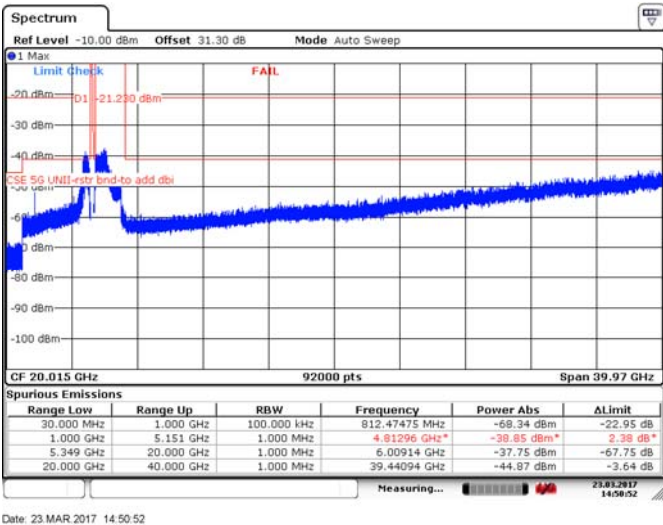
Date: 23 MAR 2017 14:21:57

Figure 8.4-225: Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, cho, BPSK



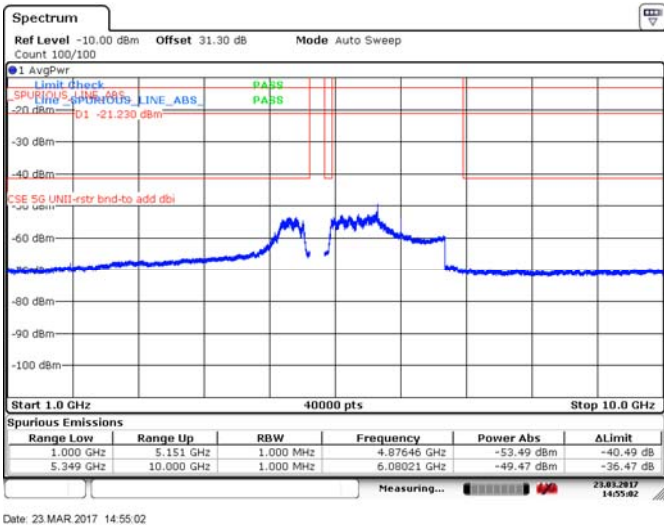
Date: 23 MAR 2017 14:18:10

Figure 8.4-226: Average Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, cho, BPSK



Date: 23 MAR 2017 14:50:52

Figure 8.4-227: Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, cho, 256-QAM



Date: 23 MAR 2017 14:55:02

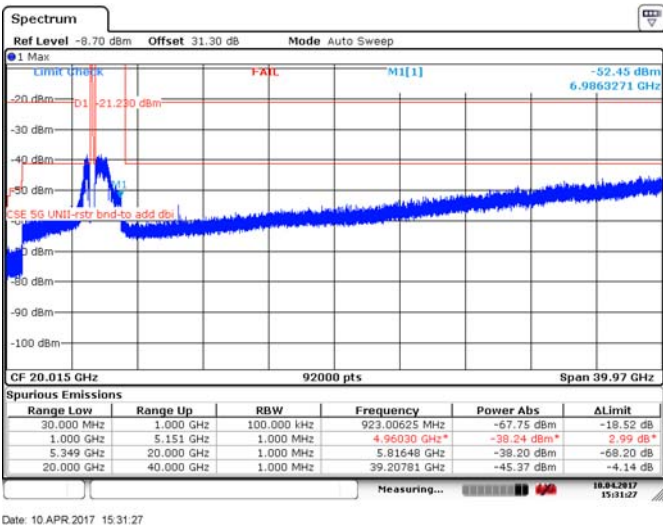
Figure 8.4-228: Average Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, cho, 256-QAM

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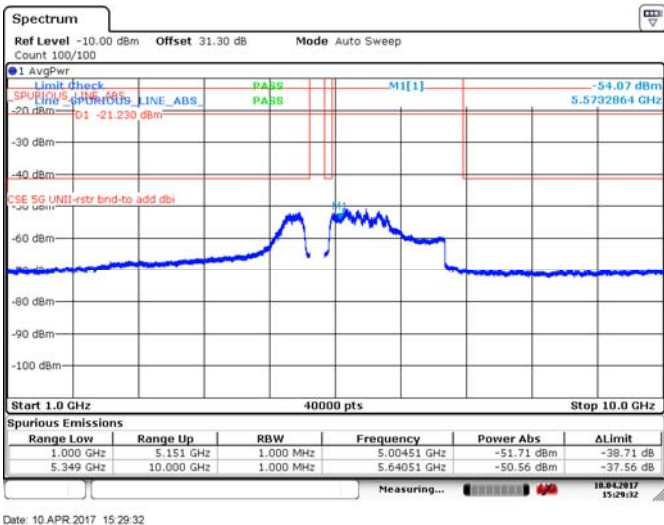


Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm



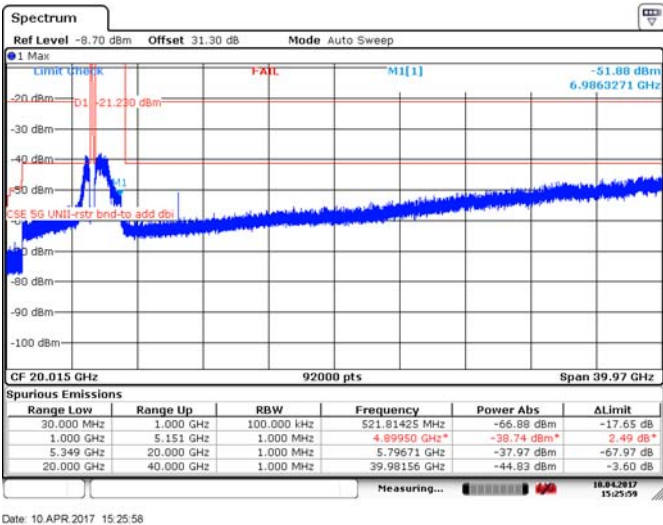
Date: 10 APR 2017 15:31:27

Figure 8.4-229: Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, ch1, BPSK



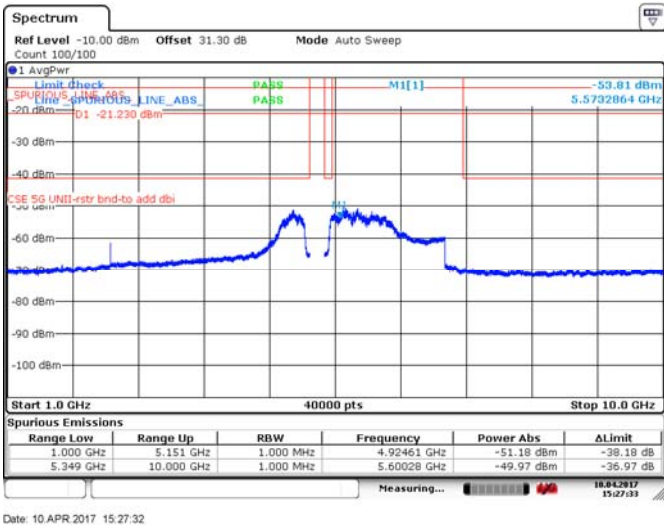
Date: 10 APR 2017 15:29:32

Figure 8.4-230: Average Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, ch1, BPSK



Date: 10 APR 2017 15:25:58

Figure 8.4-231: Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, ch1, 256-QAM



Date: 10 APR 2017 15:27:32

Figure 8.4-232: Average Spurious emissions within restricted bands, 10 MHz channel, mid channel, 32 dBi antenna, ch1, 256-QAM

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Peak limit EIRP equivalent: $74 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -21.23 \text{ dBm}$
Average limit EIRP equivalent: $54 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -41.23 \text{ dBm}$

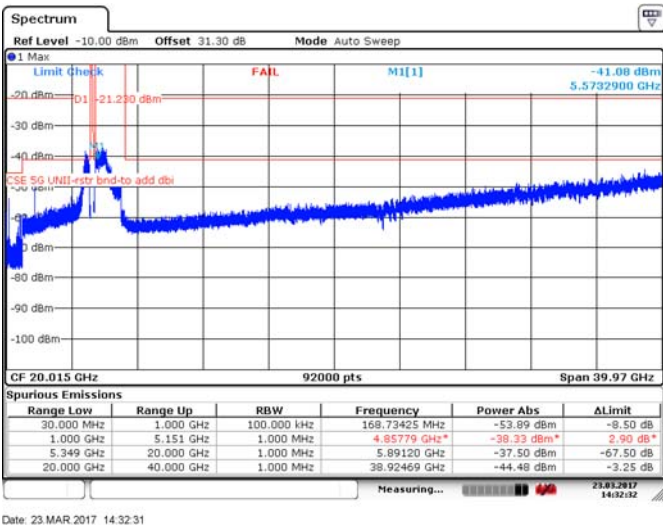


Figure 8.4-233: Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, cho, BPSK

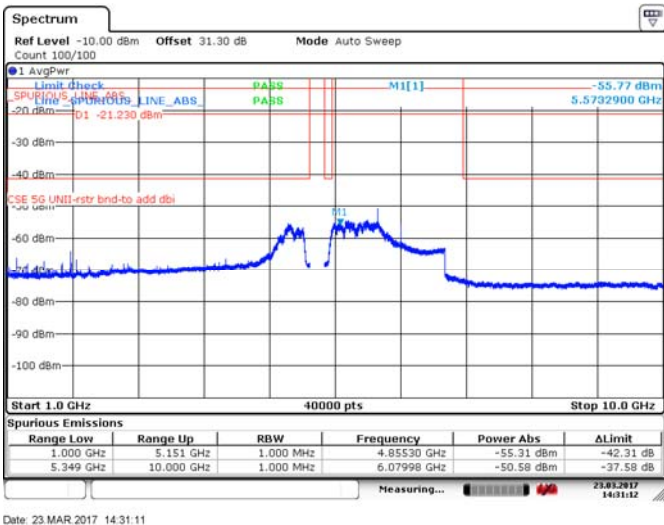


Figure 8.4-234: Average Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, cho, BPSK

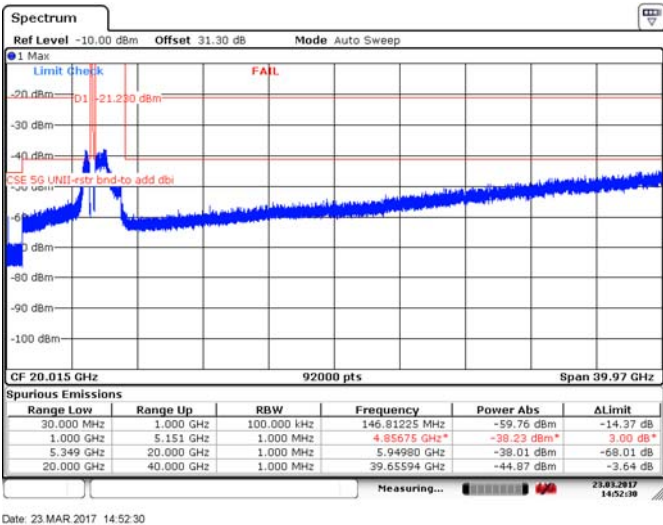


Figure 8.4-235: Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, cho, 256-QAM

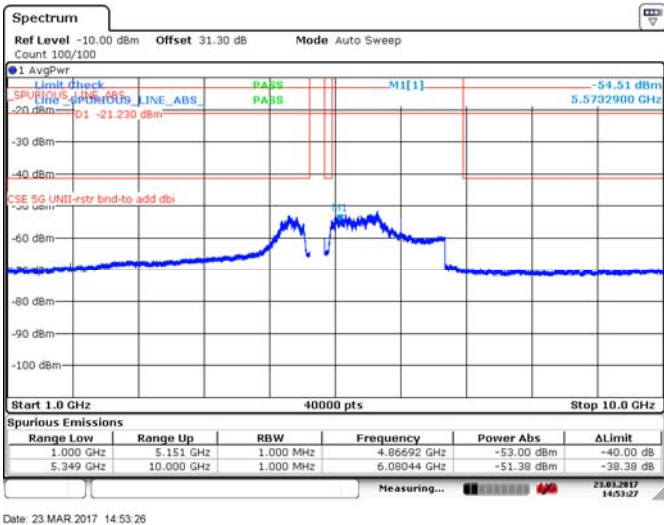


Figure 8.4-236: Average Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, cho, 256-QAM

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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

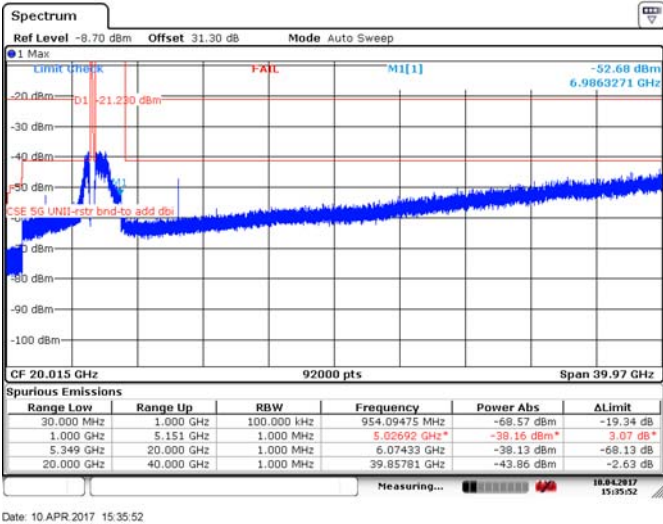


Figure 8.4-237: Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, ch1, BPSK

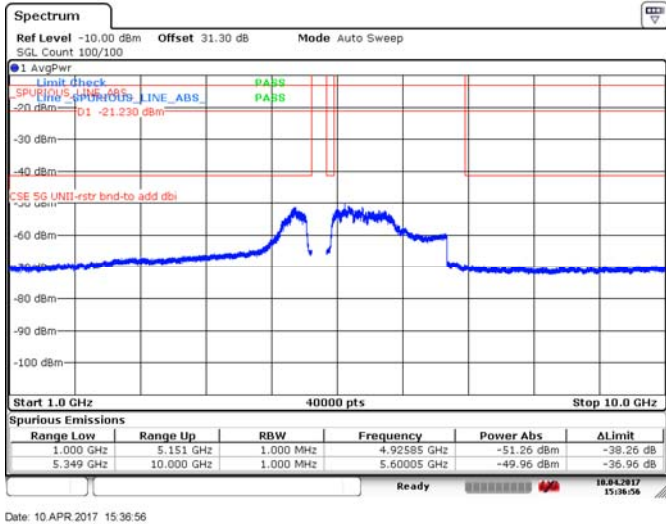


Figure 8.4-238: Average Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, ch1, BPSK

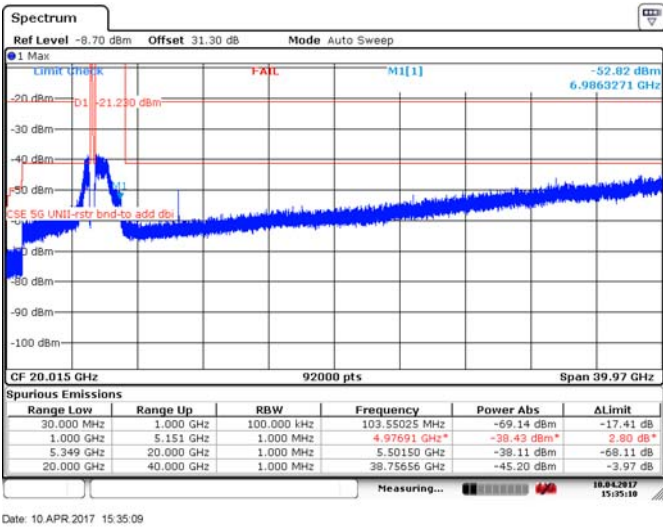


Figure 8.4-239: Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, ch1, 256-QAM

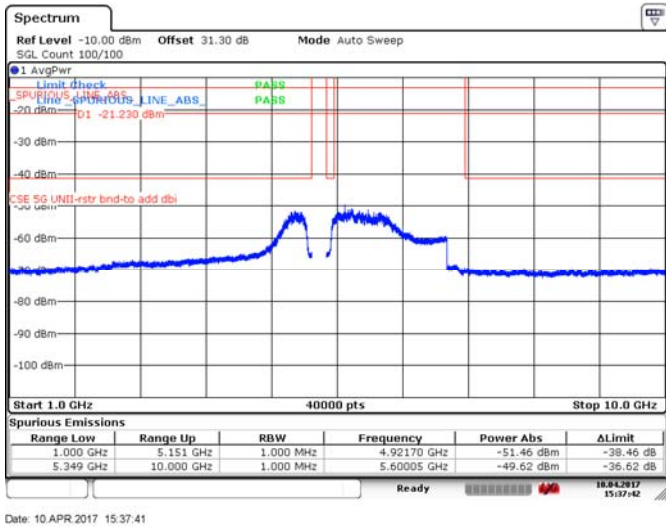


Figure 8.4-240: Average Spurious emissions within restricted bands, 10 MHz channel, high channel, 32 dBi antenna, ch1, 256-QAM

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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

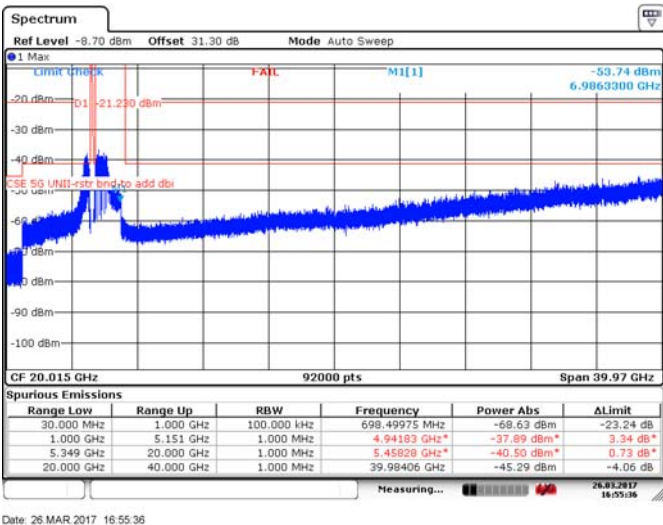


Figure 8.4-241: Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, cho, BPSK

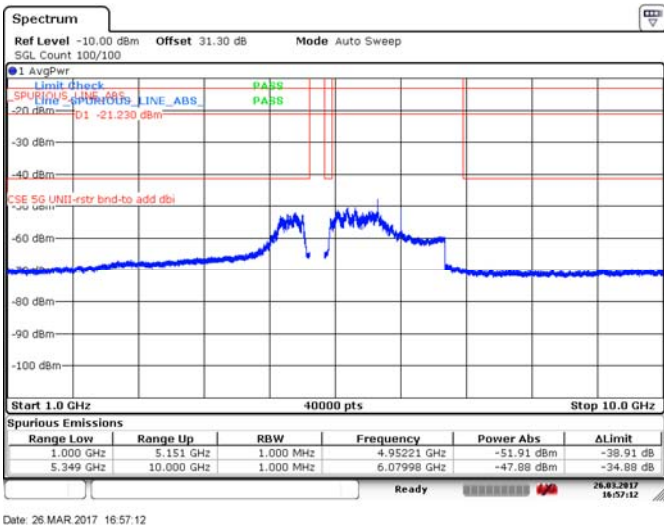


Figure 8.4-242: Average Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, cho, BPSK

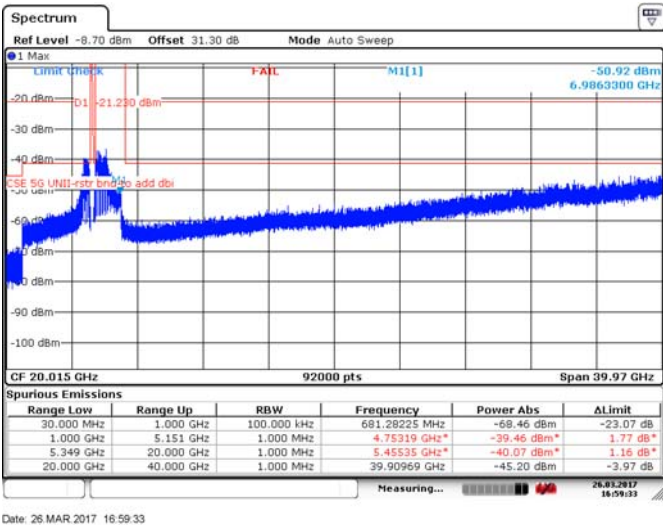


Figure 8.4-243: Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, cho,256QAM

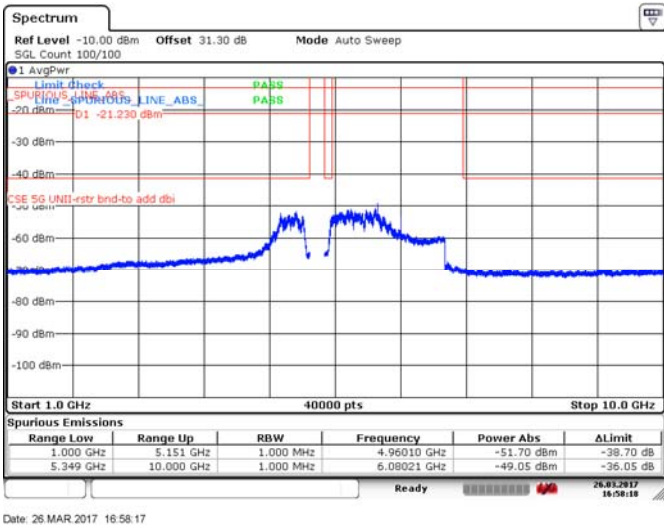


Figure 8.4-244: Average Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, cho,256QAM

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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

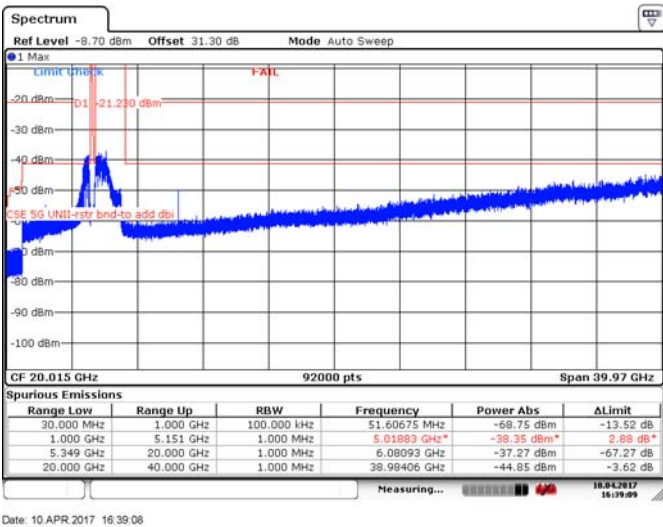


Figure 8.4-245: Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, ch1, BPSK

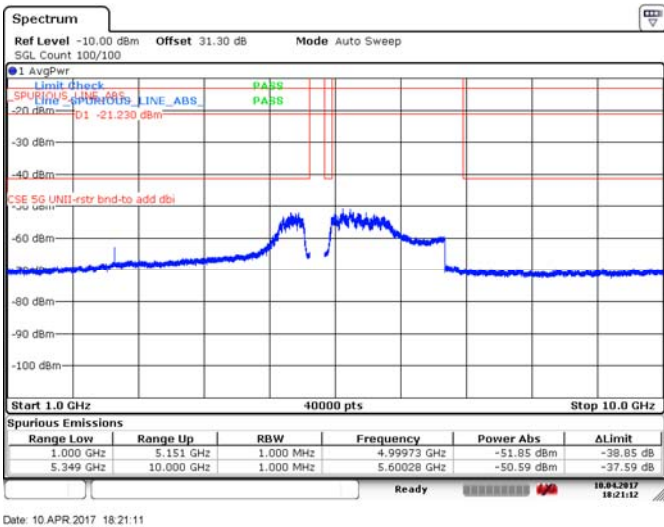


Figure 8.4-246: Average Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, ch1, BPSK

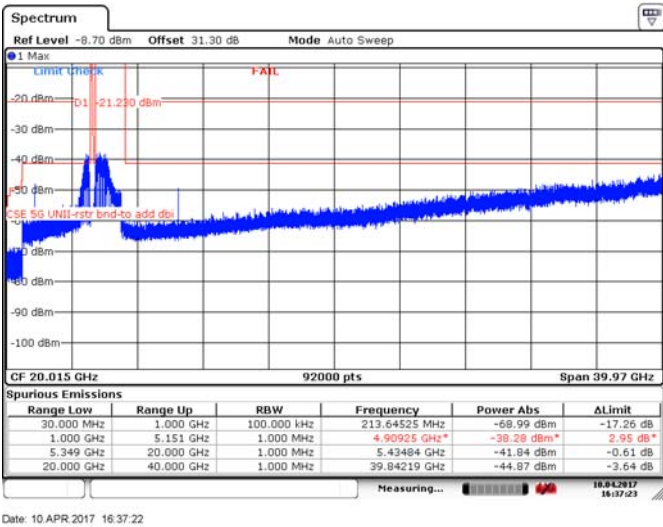


Figure 8.4-247: Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, ch1, 256QAM

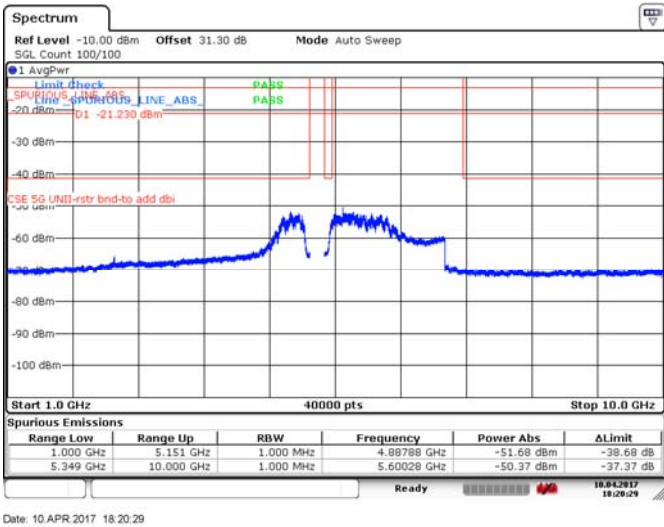


Figure 8.4-248: Average Spurious emissions within restricted bands, 20 MHz channel, low channel, 32 dBi antenna, ch1, 256QAM

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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

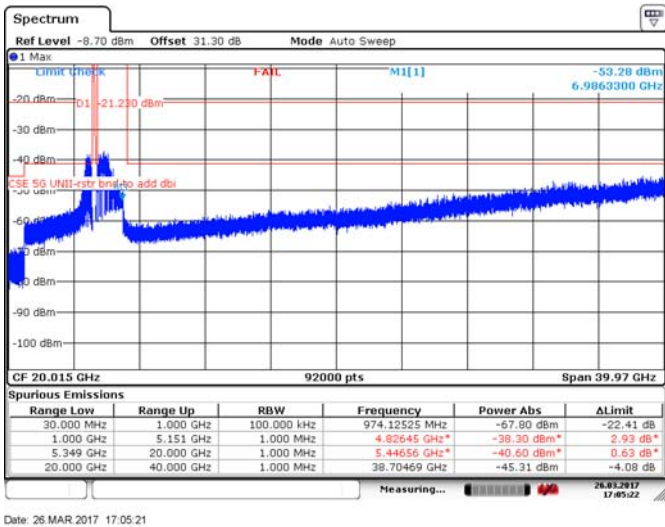


Figure 8.4-249: Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, cho, BPSK

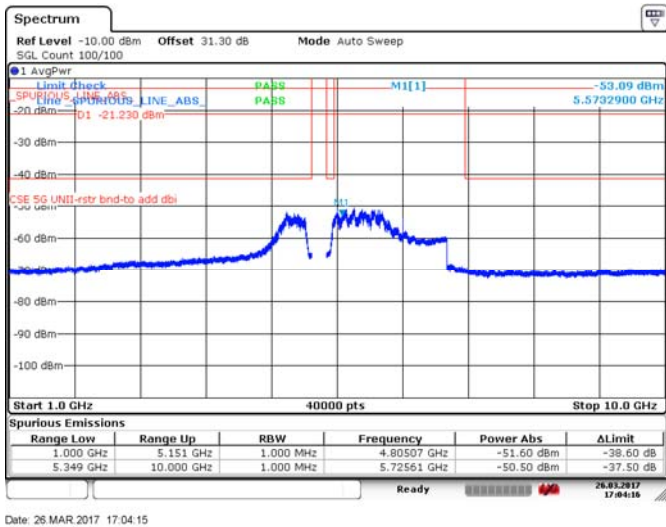


Figure 8.4-250: Average Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, cho, BPSK

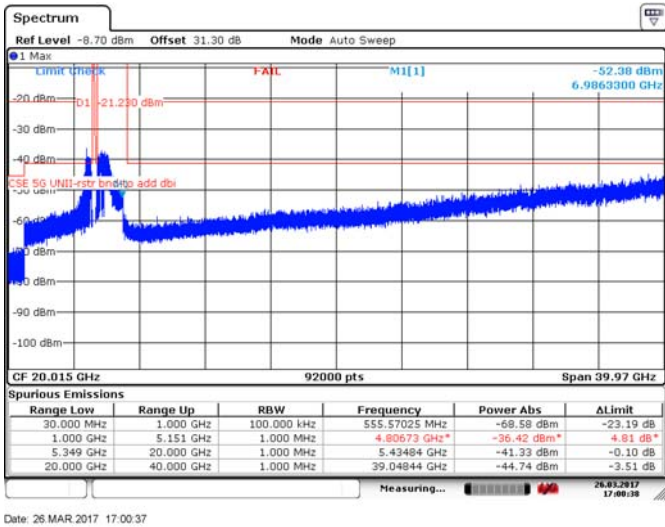


Figure 8.4-251: Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, cho, 256-QAM

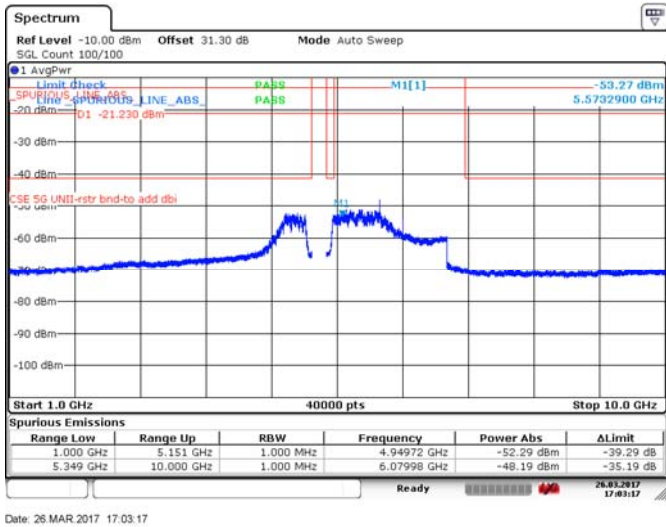


Figure 8.4-252: Average Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, cho, 256-QAM

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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

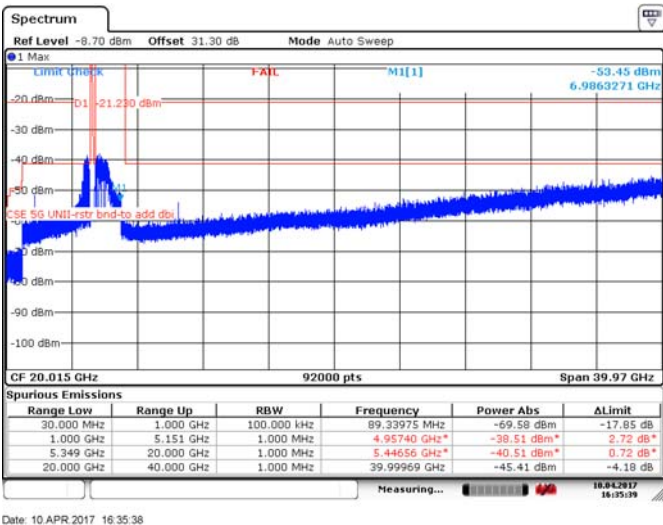


Figure 8.4-253: Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, ch1, BPSK

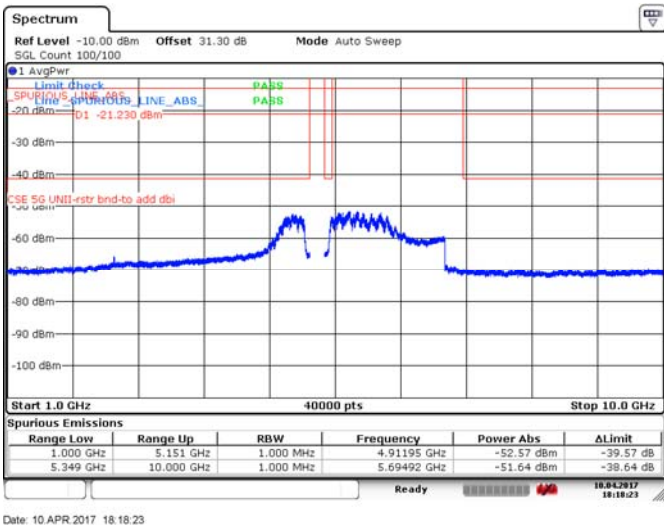


Figure 8.4-254: Average Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, ch1, BPSK

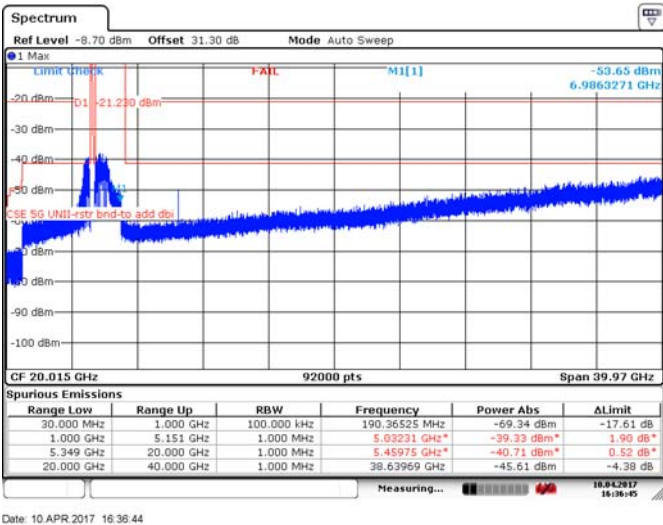


Figure 8.4-255: Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, ch1, 256-QAM

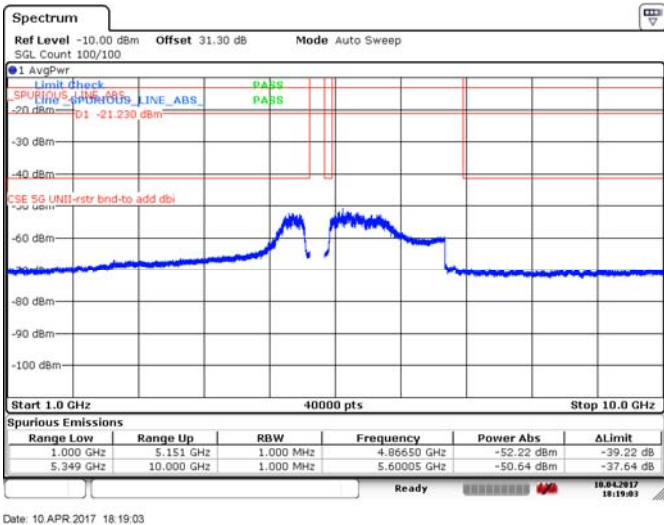


Figure 8.4-256: Average Spurious emissions within restricted bands, 20 MHz channel, mid channel, 32 dBi antenna, ch1, 256-QAM

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Peak limit EIRP equivalent: $74 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -21.23 \text{ dBm}$
Average limit EIRP equivalent: $54 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -41.23 \text{ dBm}$

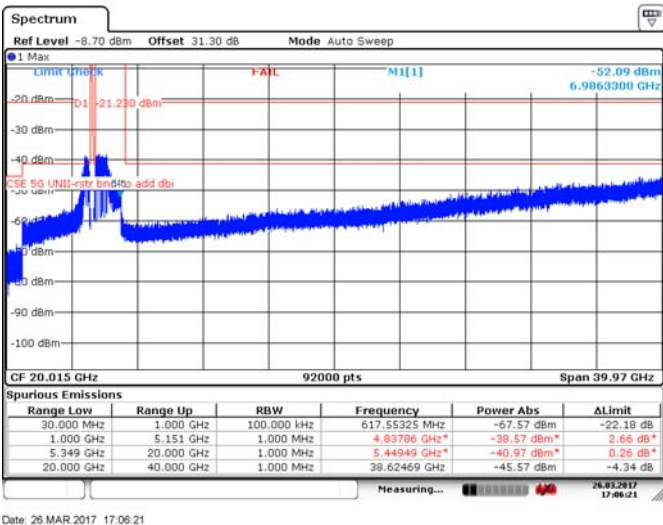


Figure 8.4-257: Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, cho, BPSK

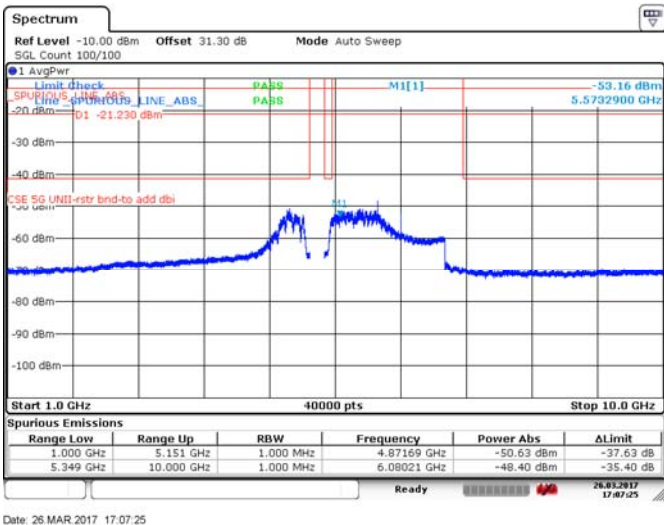


Figure 8.4-258: Average Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, cho, BPSK

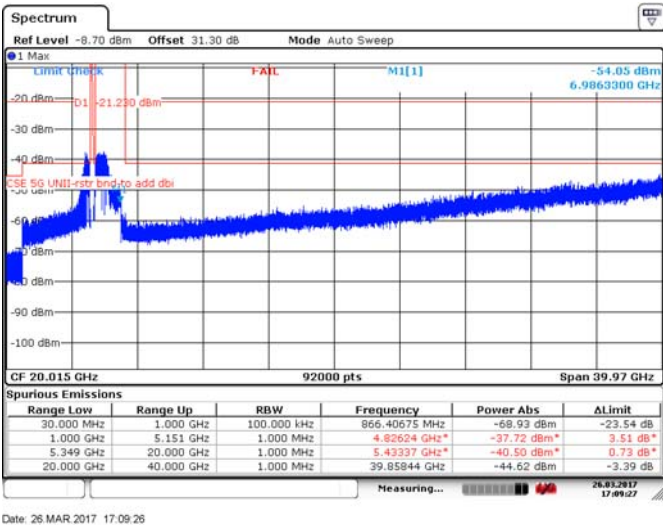


Figure 8.4-259: Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, cho, 256-QAM,

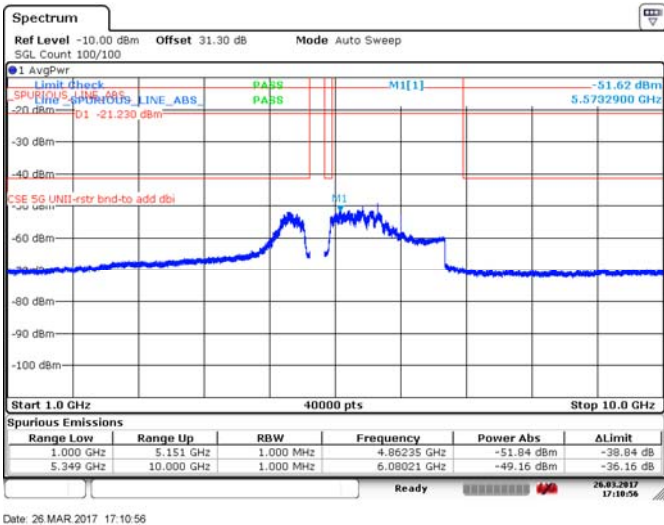


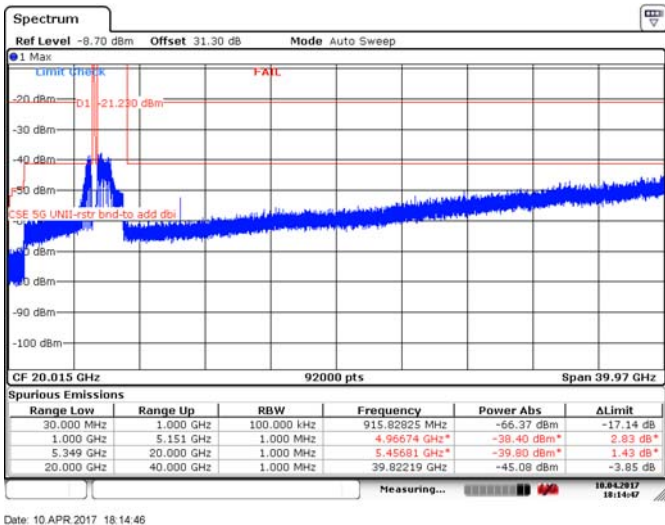
Figure 8.4-260: Average Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, cho, 256-QAM,

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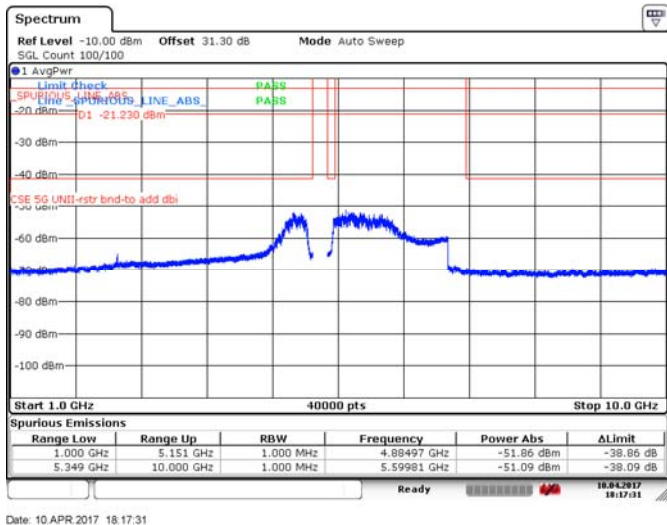


Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm



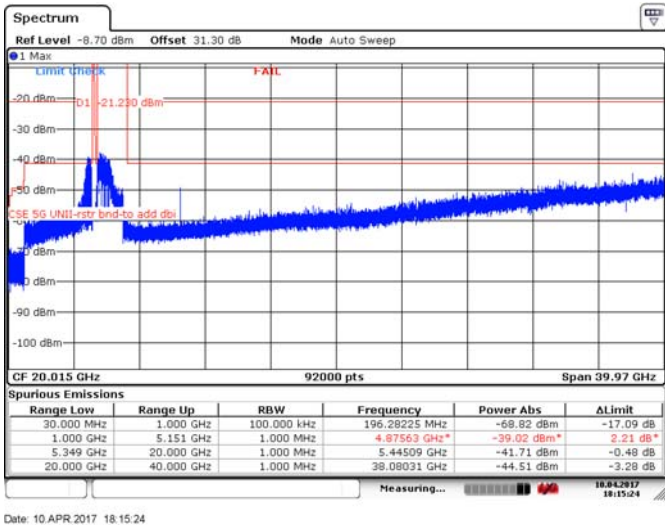
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Figure 8.4-261: Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, ch1, BPSK



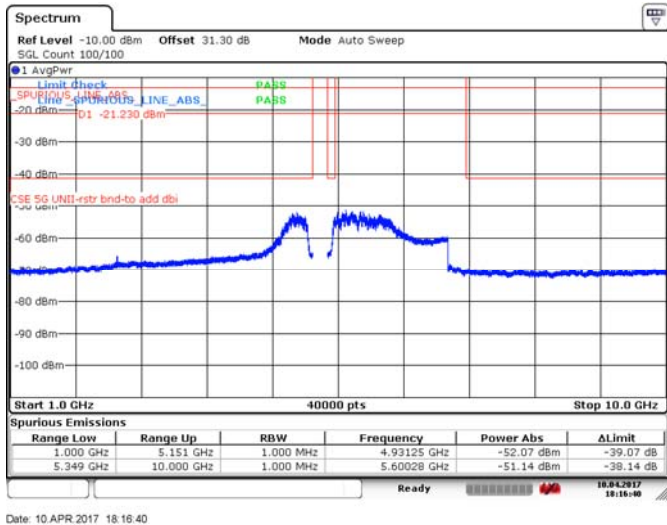
Date: 10 APR 2017 18:17:31

Figure 8.4-262: Average Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, ch1, BPSK



Date: 10 APR 2017 18:15:24

Figure 8.4-263: Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, ch1, 256-QAM,



Date: 10 APR 2017 18:16:40

Figure 8.4-264: Average Spurious emissions within restricted bands, 20 MHz channel, high channel, 32 dBi antenna, ch1, 256-QAM,

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Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
 Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

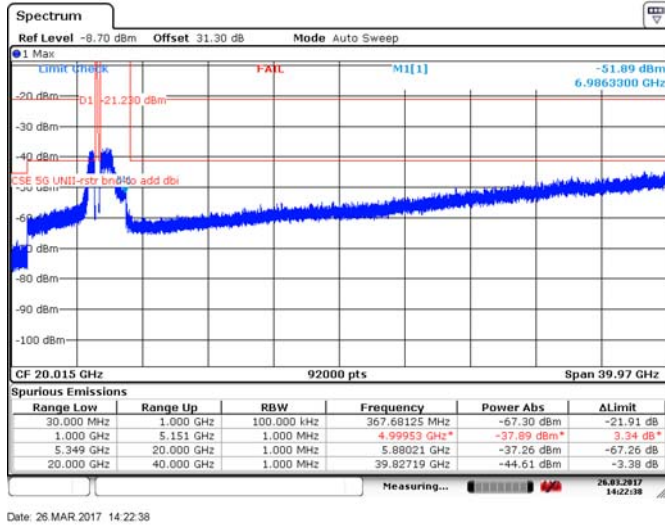


Figure 8.4-265: Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, cho, BPSK

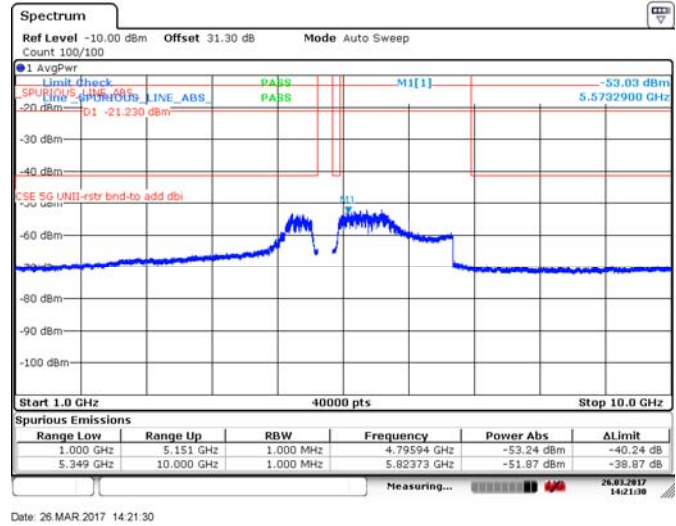


Figure 8.4-266: Average Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, cho, BPSK

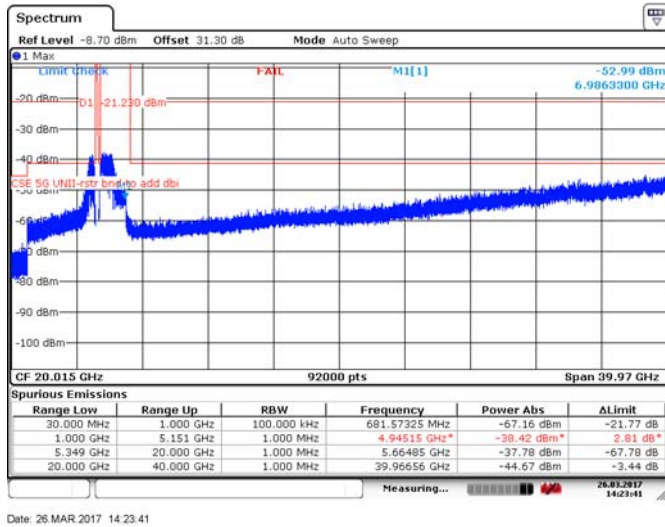


Figure 8.4-267: Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, cho, 256QAM

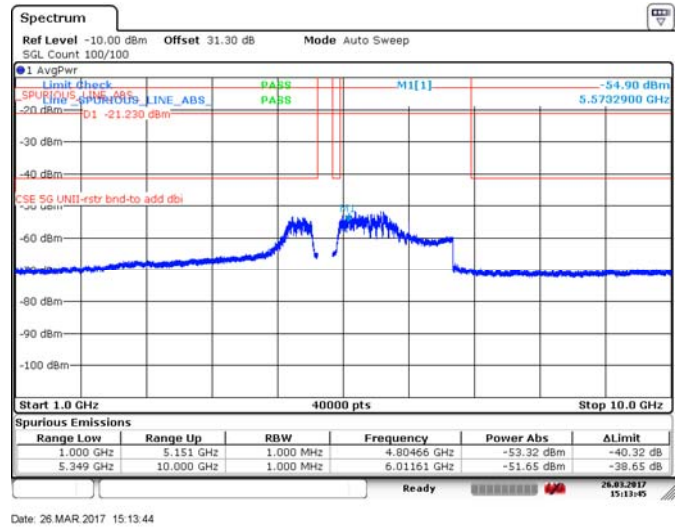


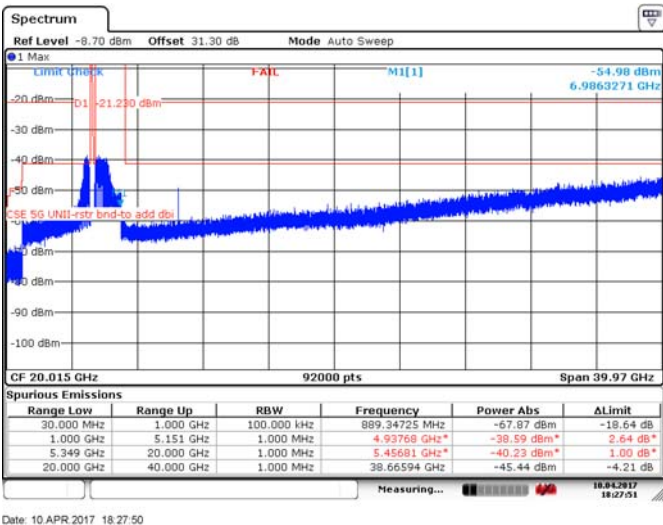
Figure 8.4-268: Average Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, cho, 256QAM

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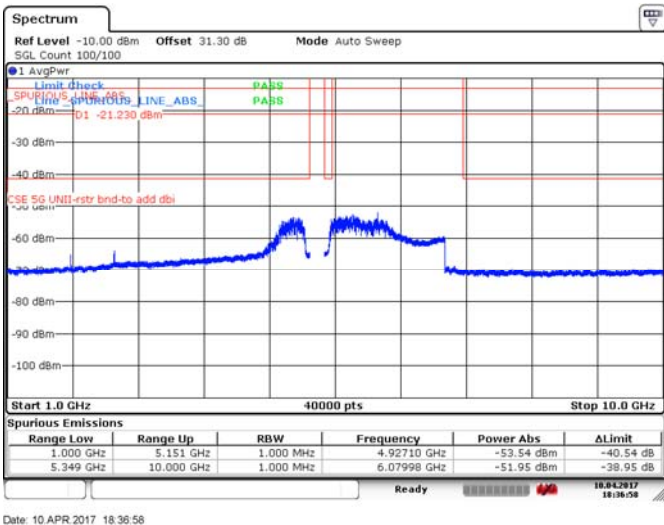


Peak limit EIRP equivalent: $74 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -21.23 \text{ dBm}$
Average limit EIRP equivalent: $54 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -41.23 \text{ dBm}$



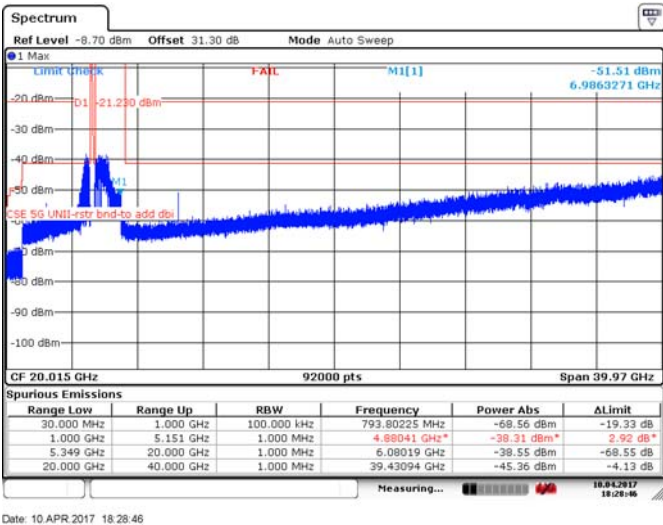
Date: 10 APR 2017 18:27:50

Figure 8.4-269: Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, ch1, BPSK



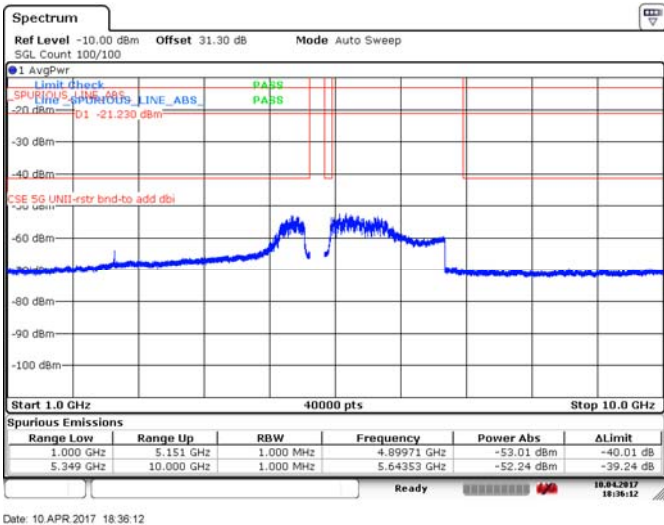
Date: 10 APR 2017 18:36:58

Figure 8.4-270: Average Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, ch1, BPSK



Date: 10 APR 2017 18:28:46

Figure 8.4-271: Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, ch1, 256QAM



Date: 10 APR 2017 18:36:12

Figure 8.4-272: Average Spurious emissions within restricted bands, 40 MHz channel, low channel, 32 dBi antenna, ch1, 256QAM

Section 8
Test name
Specification

Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2



Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm

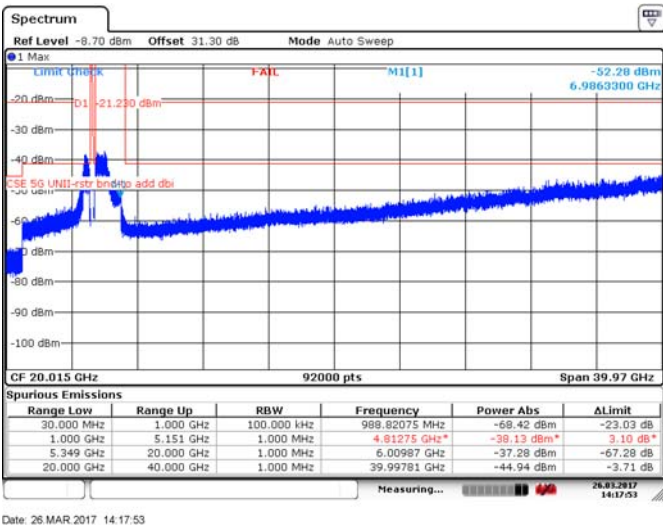


Figure 8.4-273: Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, cho, BPSK

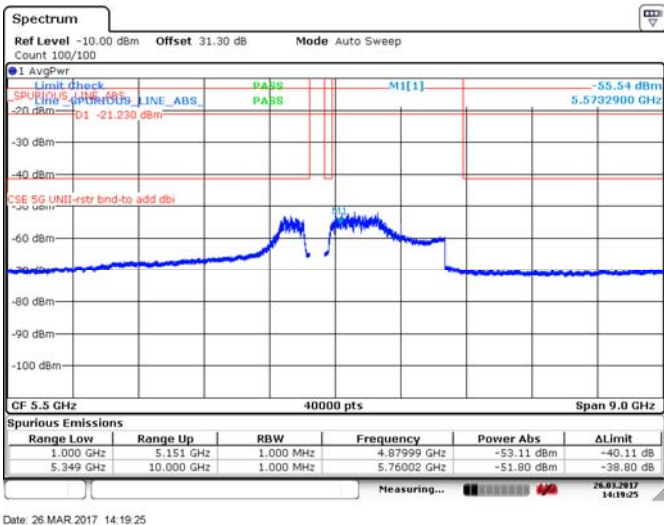


Figure 8.4-274: Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, ch1, BPSK

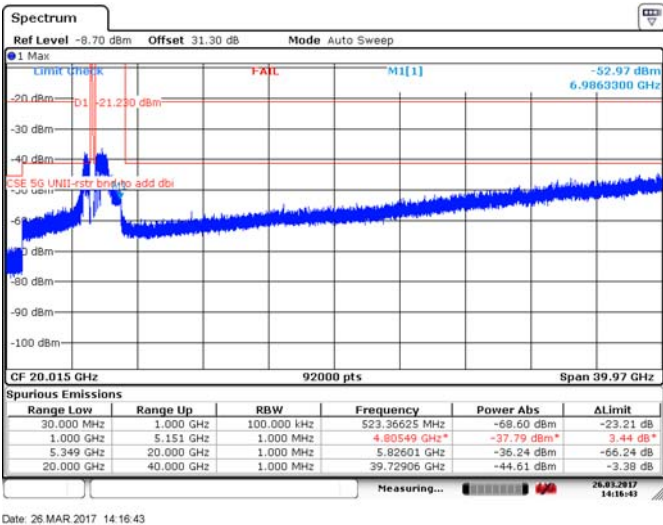


Figure 8.4-275: Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, cho, 256-QAM

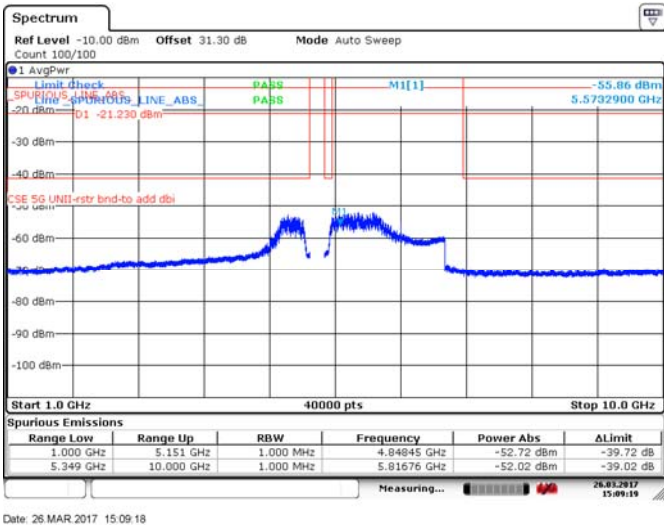


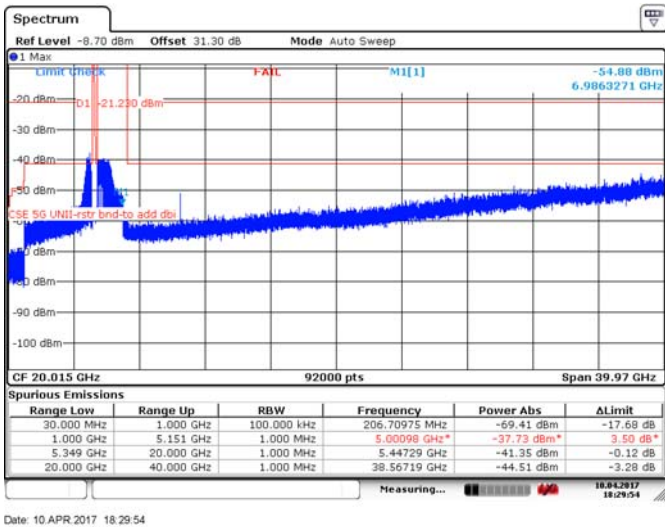
Figure 8.4-276: Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, ch1, 256-QAM

Section 8
Test name
Specification

Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2

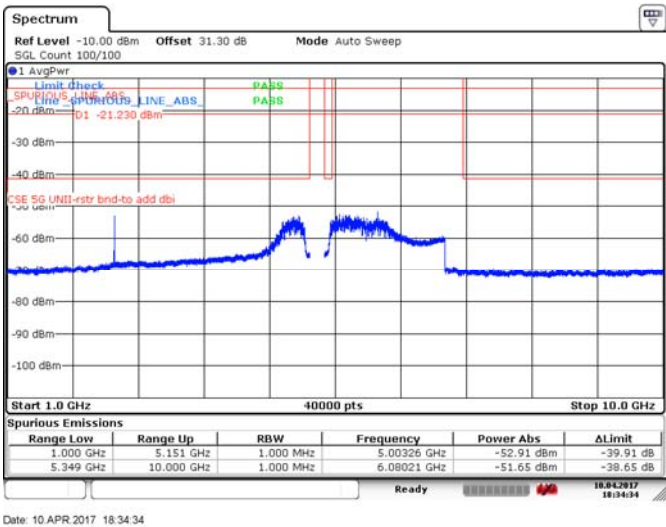


Peak limit EIRP equivalent: 74 dBμV/m – 95.23 dB = –21.23 dBm
Average limit EIRP equivalent: 54 dBμV/m – 95.23 dB = –41.23 dBm



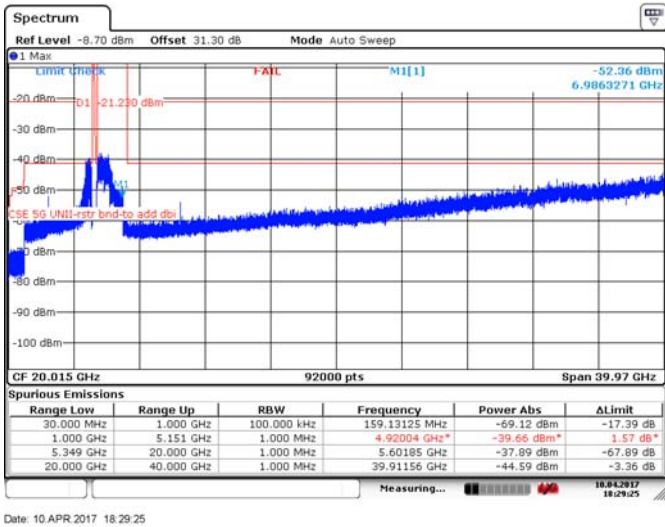
Date: 10 APR 2017 18:29:54

Figure 8.4-277: Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, ch1, BPSK



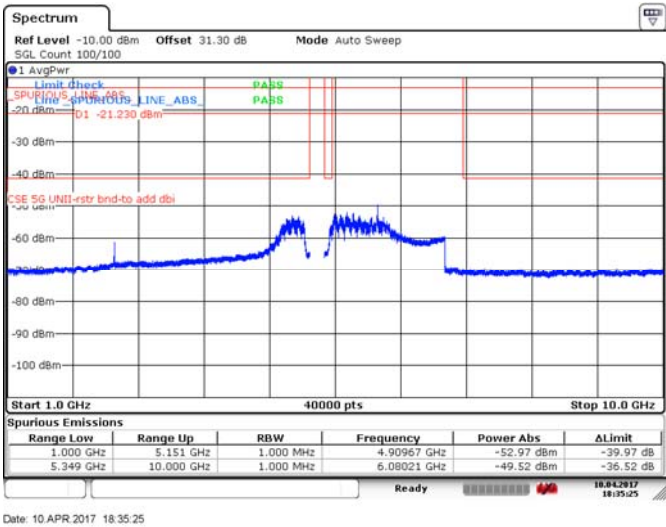
Date: 10 APR 2017 18:34:34

Figure 8.4-278: Average Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, ch1, BPSK



Date: 10 APR 2017 18:29:25

Figure 8.4-279: Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, ch1, 256-QAM



Date: 10 APR 2017 18:35:25

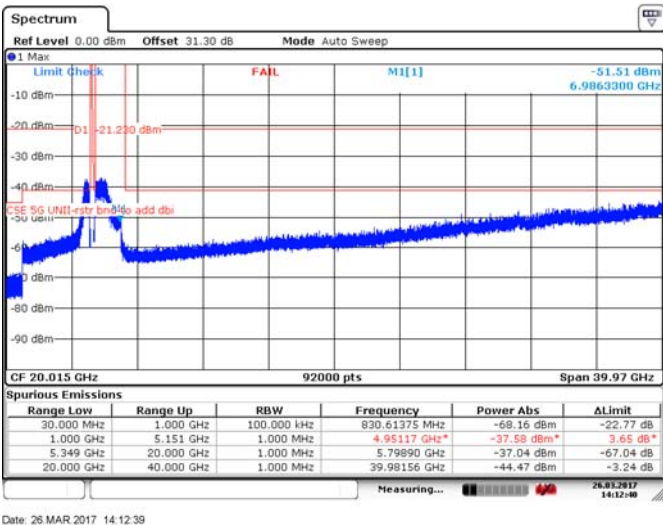
Figure 8.4-280: Average Spurious emissions within restricted bands, 40 MHz channel, mid channel, 32 dBi antenna, ch1, 256-QAM

Section 8
Test name
Specification

Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2

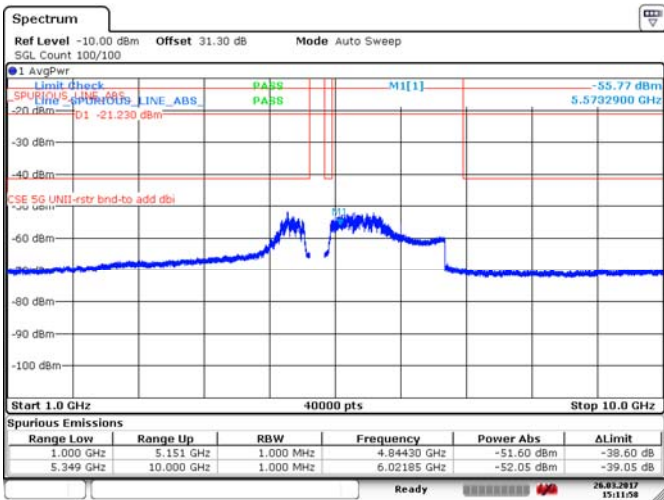


Peak limit EIRP equivalent: $74 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -21.23 \text{ dBm}$
Average limit EIRP equivalent: $54 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -41.23 \text{ dBm}$



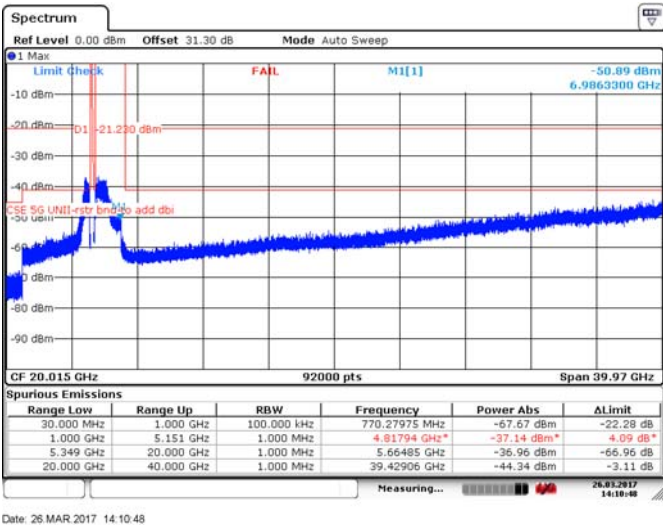
Date: 26 MAR 2017 14:12:39

Figure 8.4-281: Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, cho, BPSK



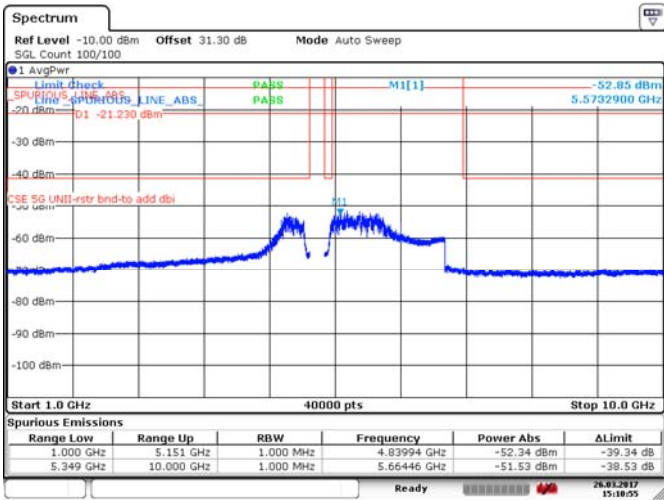
Date: 26 MAR 2017 15:11:58

Figure 8.4-282: Average Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, cho, BPSK



Date: 26 MAR 2017 14:10:48

Figure 8.4-283: Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, cho, 256-QAM



Date: 26 MAR 2017 15:10:55

Figure 8.4-284: Average Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, cho, 256-QAM

Section 8
Test name
Specification

Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2



Peak limit EIRP equivalent: $74 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -21.23 \text{ dBm}$
Average limit EIRP equivalent: $54 \text{ dB}\mu\text{V/m} - 95.23 \text{ dB} = -41.23 \text{ dBm}$

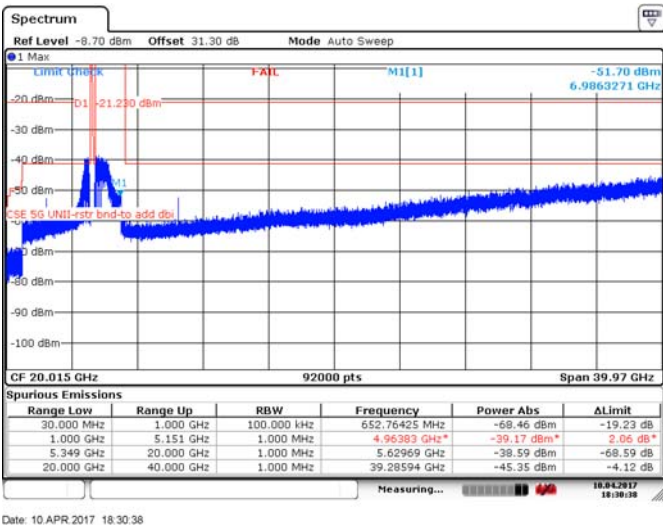


Figure 8.4-285: Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, ch1, BPSK

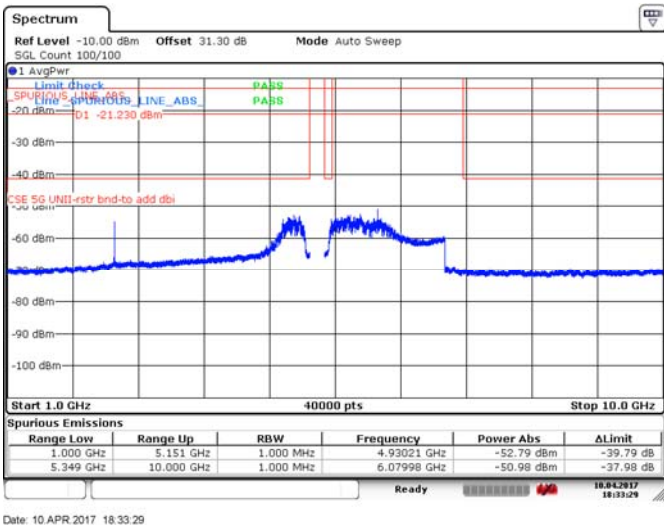


Figure 8.4-286: Average Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, ch1, BPSK

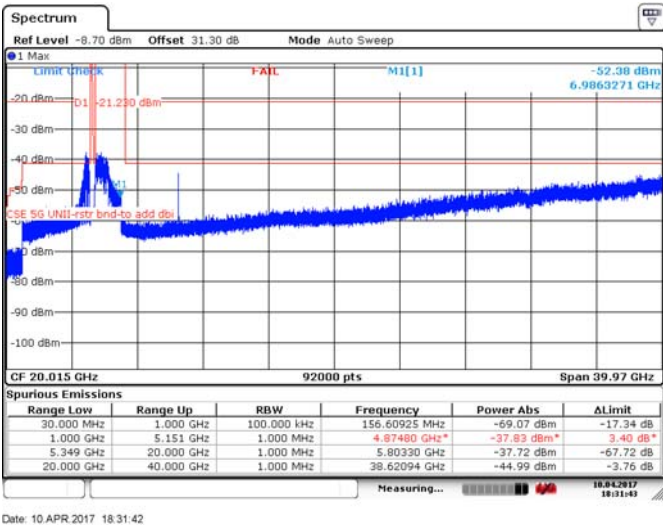


Figure 8.4-287: Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, ch1, 256-QAM

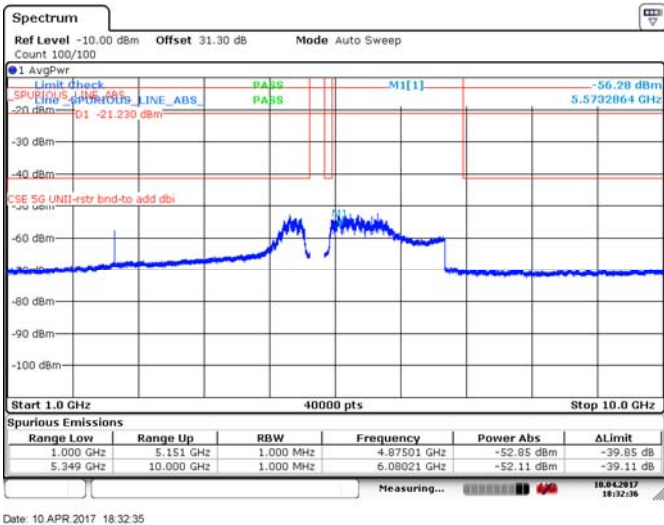
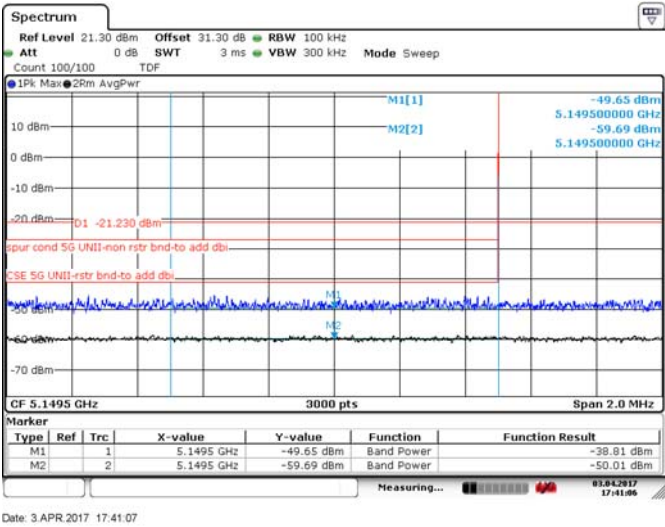


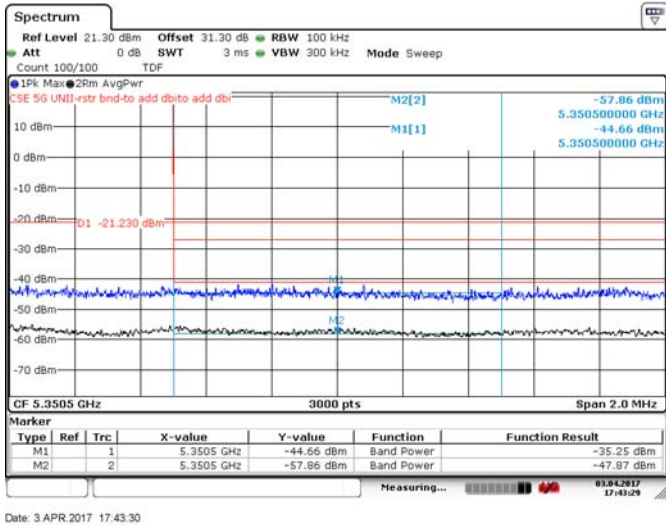
Figure 8.4-288: Average Spurious emissions within restricted bands, 40 MHz channel, high channel, 32 dBi antenna, ch1, 256-QAM

Section 8
Test name
Specification

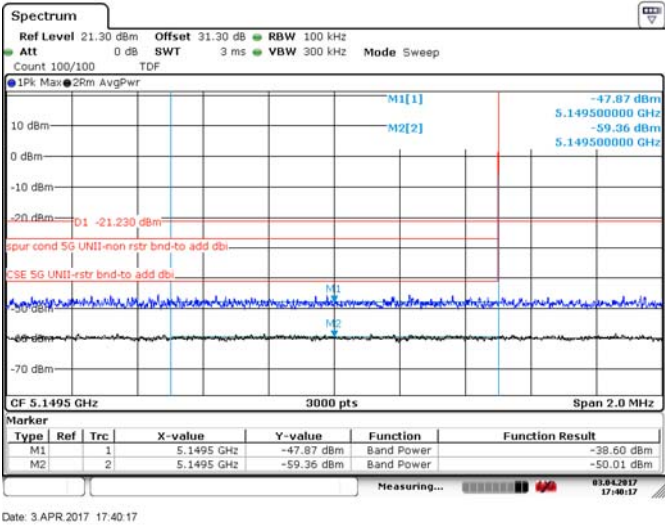
Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2



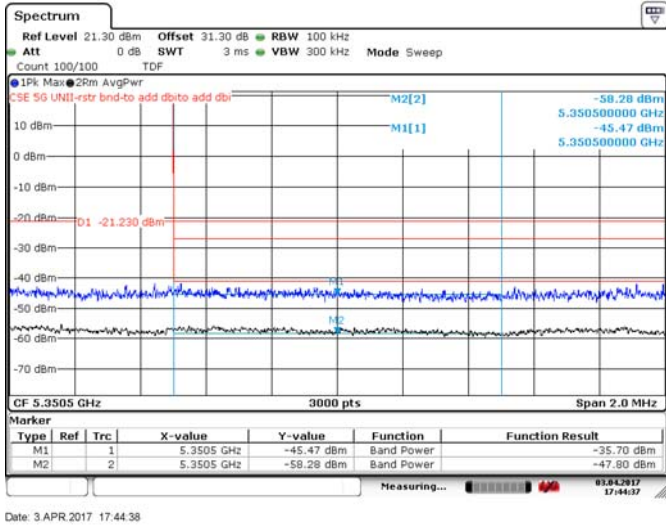
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Date: 3.APR 2017 17:43:30



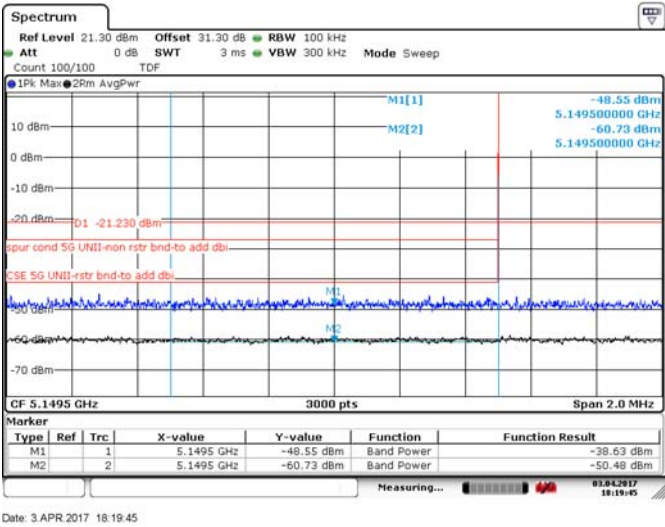
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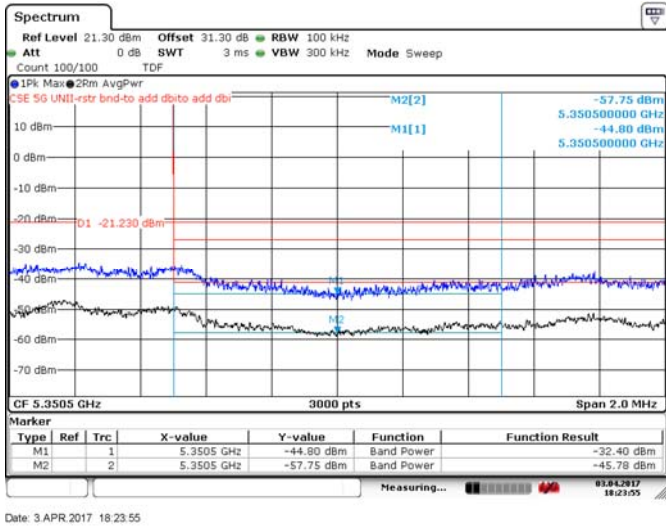
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Section 8
Test name
Specification

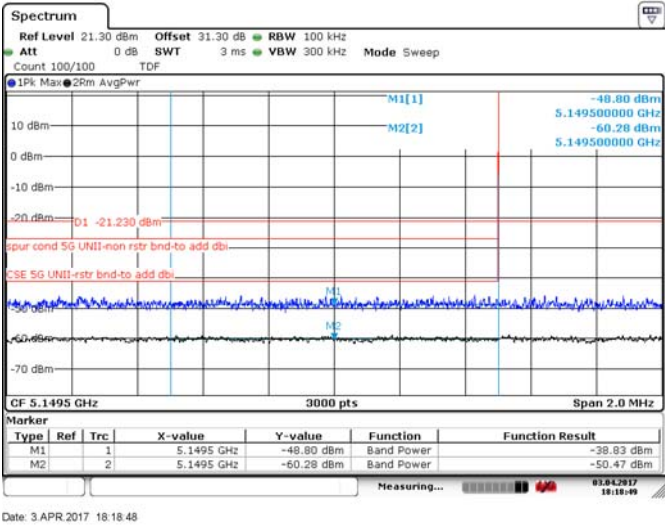
Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2



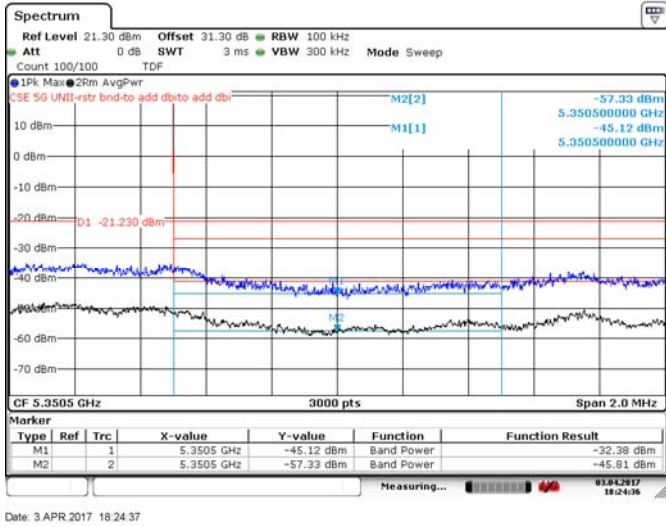
Date: 3.APR 2017 18:19:45



Date: 3.APR 2017 18:23:55



Date: 3.APR 2017 18:18:48



Date: 3.APR 2017 18:24:37

Section 8
Test name
Specification

Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2

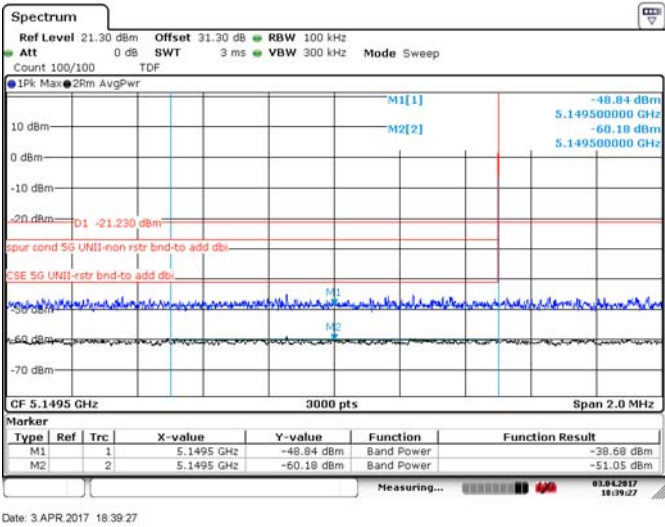


Figure 8.4-297: Lower band edge for FCC, 40 MHz channel, 32 dBi antenna, BPSK

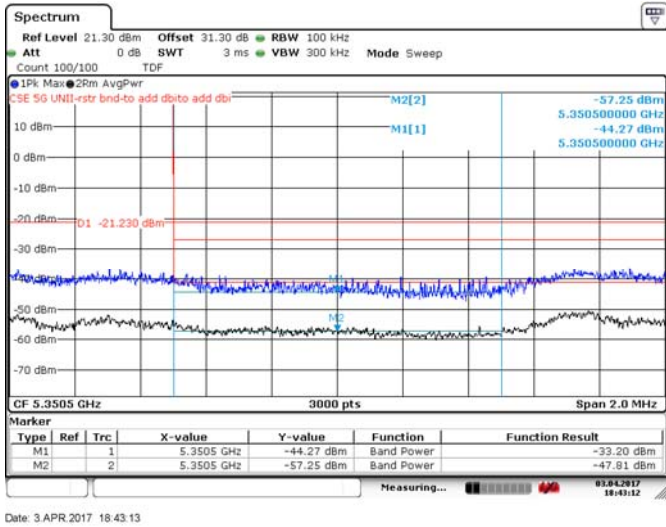


Figure 8.4-298: Upper band edge for FCC, 40 MHz channel, 32 dBi antenna, BPSK

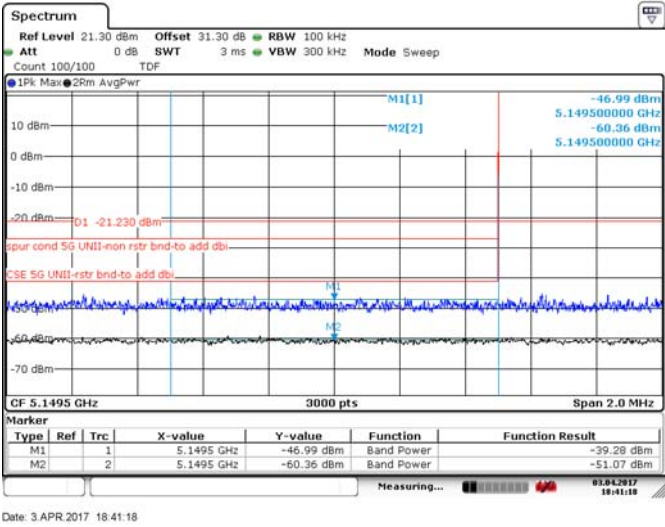


Figure 8.4-299: Lower band edge for FCC, 40 MHz channel, 32 dBi antenna, 256QAM

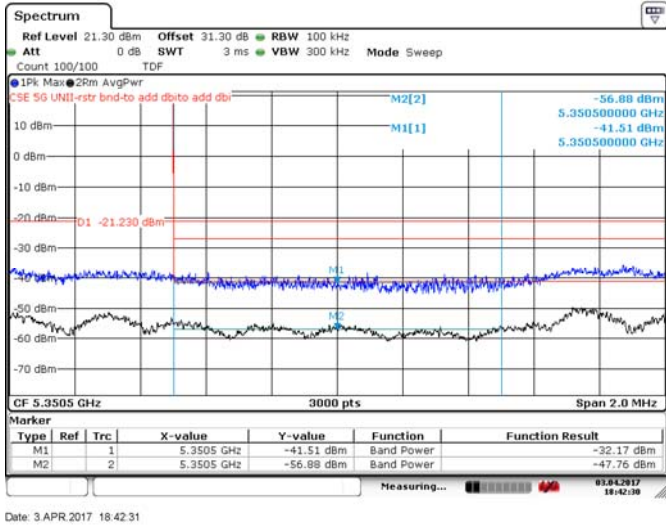


Figure 8.4-300: Upper band edge for FCC, 40 MHz channel, 32 dBi antenna, 256QAM

Section 8
Test name
Specification

Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2

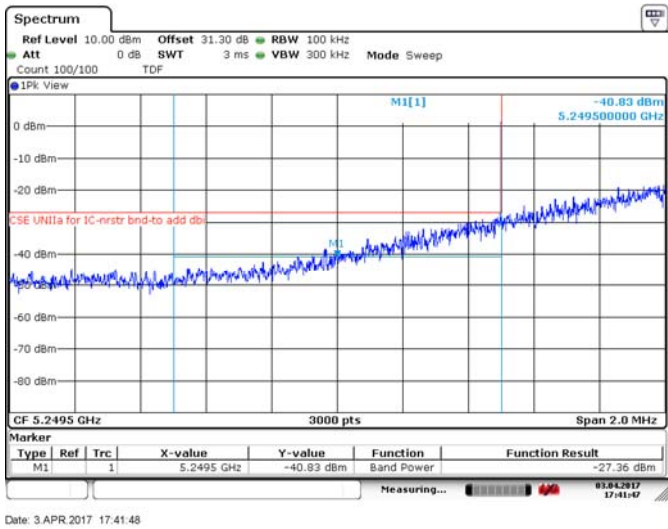


Figure 8.4-301: Lower band edge for ISED, 10 MHz channel, 32 dBi antenna, BPSK

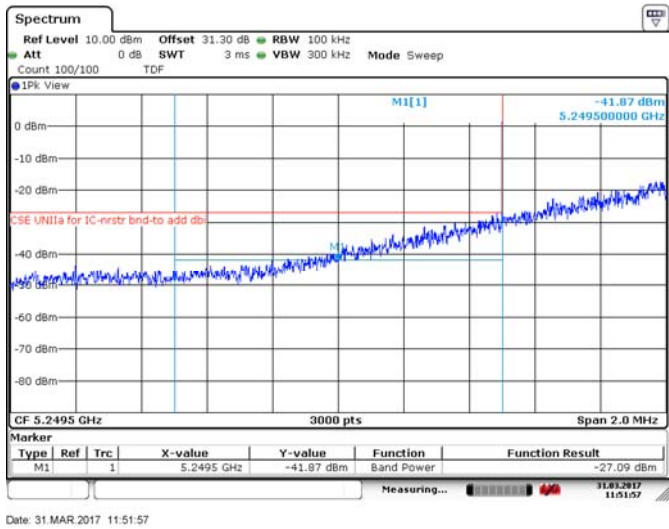


Figure 8.4-302: Lower band edge for ISED, 10 MHz channel, 32 dBi antenna, 256QAM

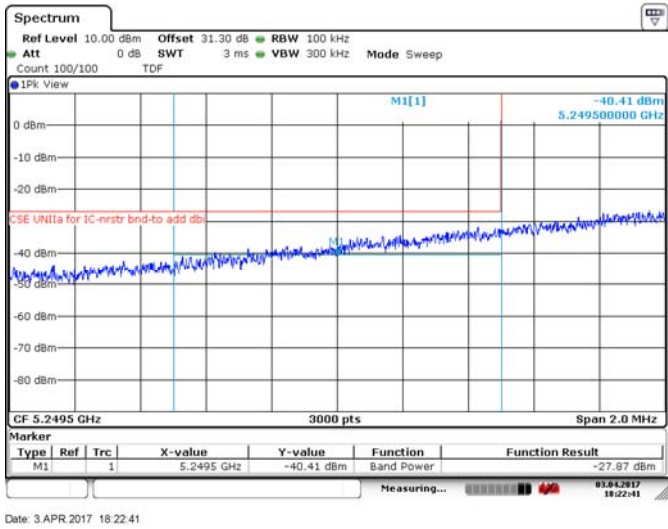


Figure 8.4-303: Lower band edge for ISED, 20 MHz channel, 32 dBi antenna, BPSK

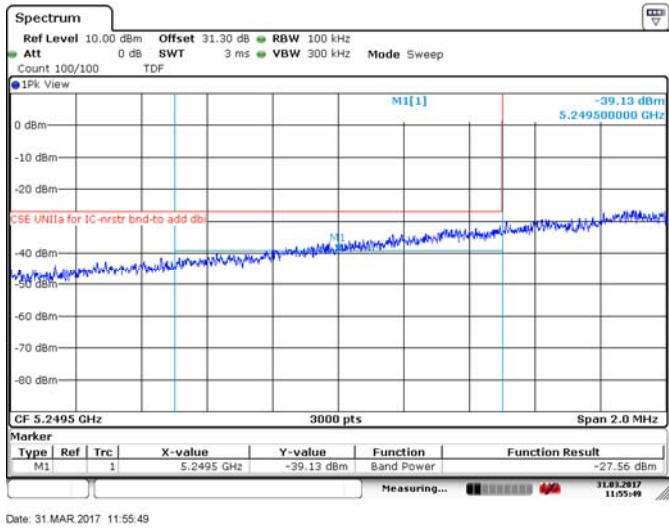


Figure 8.4-304: Lower band edge for ISED, 20 MHz channel, 32 dBi antenna, 256QAM

Section 8
Test name
Specification

Testing data
FCC 15.407(b) and RSS-247 6.2.2.2 Spurious (out-of-band) emissions
FCC Part 15 Subpart E and RSS-247 Issue 2

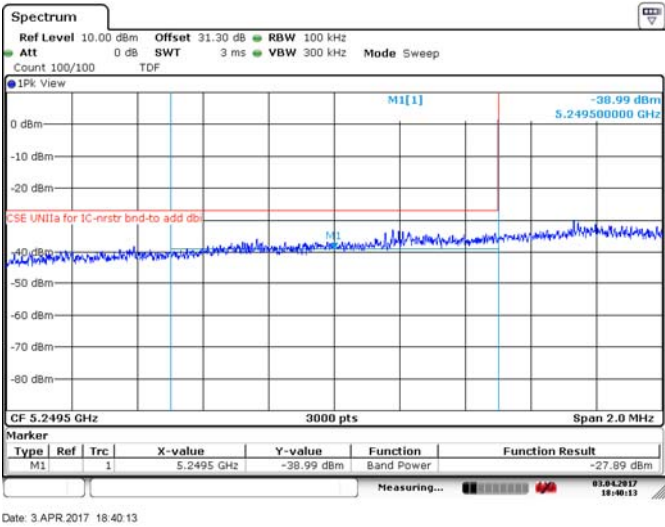


Figure 8.4-305: Lower band edge for ISED, 40 MHz channel, 10 dBi antenna, BPSK

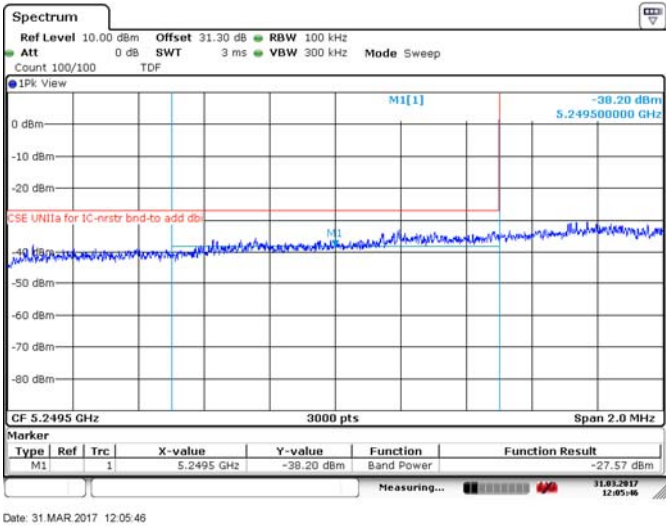


Figure 8.4-306: Lower band edge for ISED, 40 MHz channel, 10 dBi antenna, 256QAM

8.5 FCC 15.407(g) and RSS-Gen 8.11 Frequency stability

8.5.1 Definitions and limits

Manufacturers of U-NII (IC: LE-LAN) devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

8.5.2 Test summary

Test date:	April 19, 2017	Temperature:	21 °C
Test engineer:	Yong Huang	Air pressure:	1008 mbar
Verdict:	Pass	Relative humidity:	31 %

8.5.3 Observations, settings and special notes

Spectrum analyser settings:

Resolution bandwidth:	10 Hz
Video bandwidth:	10 Hz
Detector mode:	Peak
Trace mode:	Max Hold

8.5.4 Test data

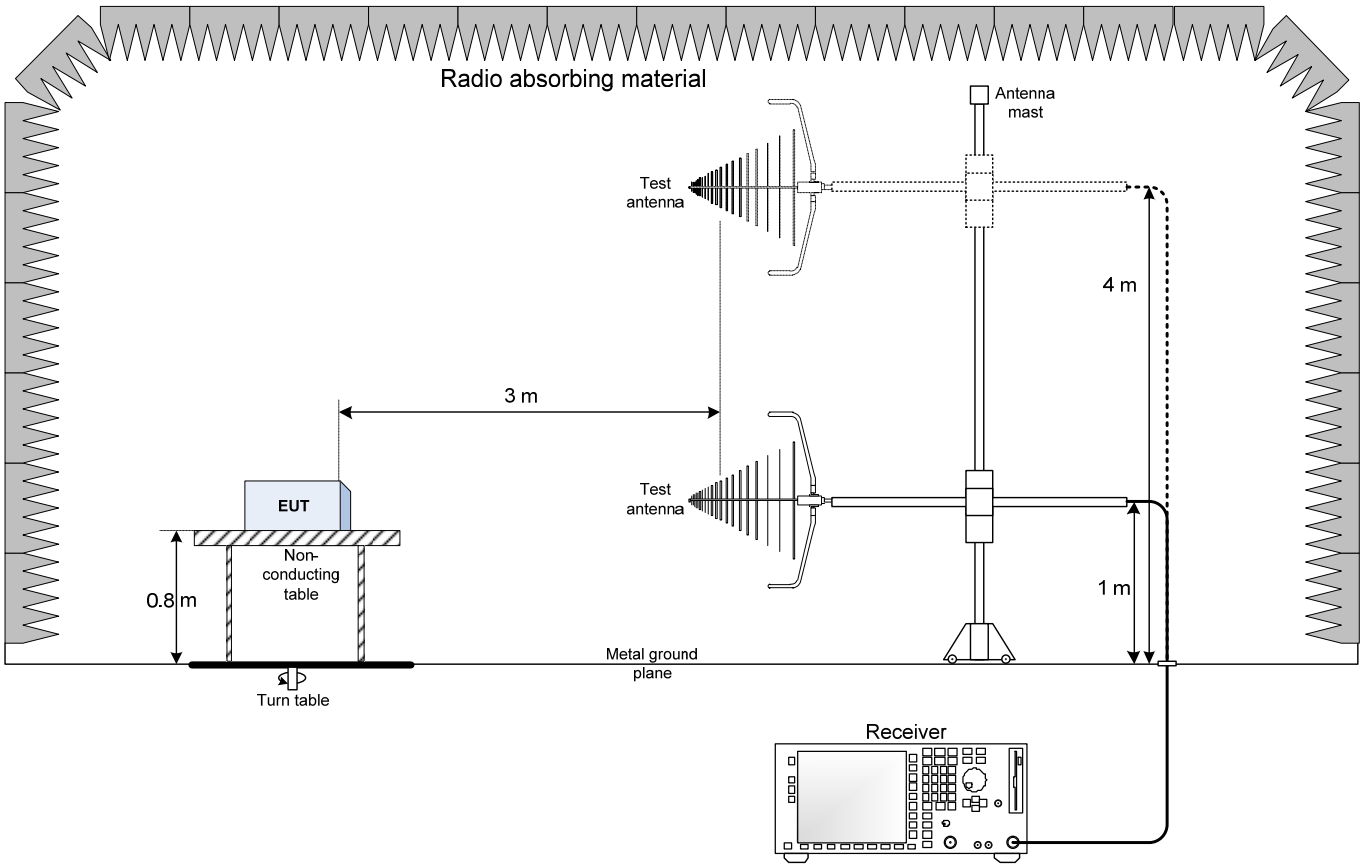
Table 8.5-1: Frequency drift measurement

Test conditions	Frequency, Hz	Drift, Hz
+50 °C, Nominal	5255006080	-16980
+40 °C, Nominal	5255002910	-20150
+30 °C, Nominal	5255014620	-8440
+20 °C, +15 %	5255024830	1770
+20 °C, Nominal	5255023060	reference
+20 °C, -15 %	5255026390	3330
+10 °C, Nominal	5255037100	14040
0 °C, Nominal	5255052460	29400
-10 °C, Nominal	5255057090	34030
-20 °C, Nominal	5255081470	58410
-30 °C, Nominal	5255064200	41140

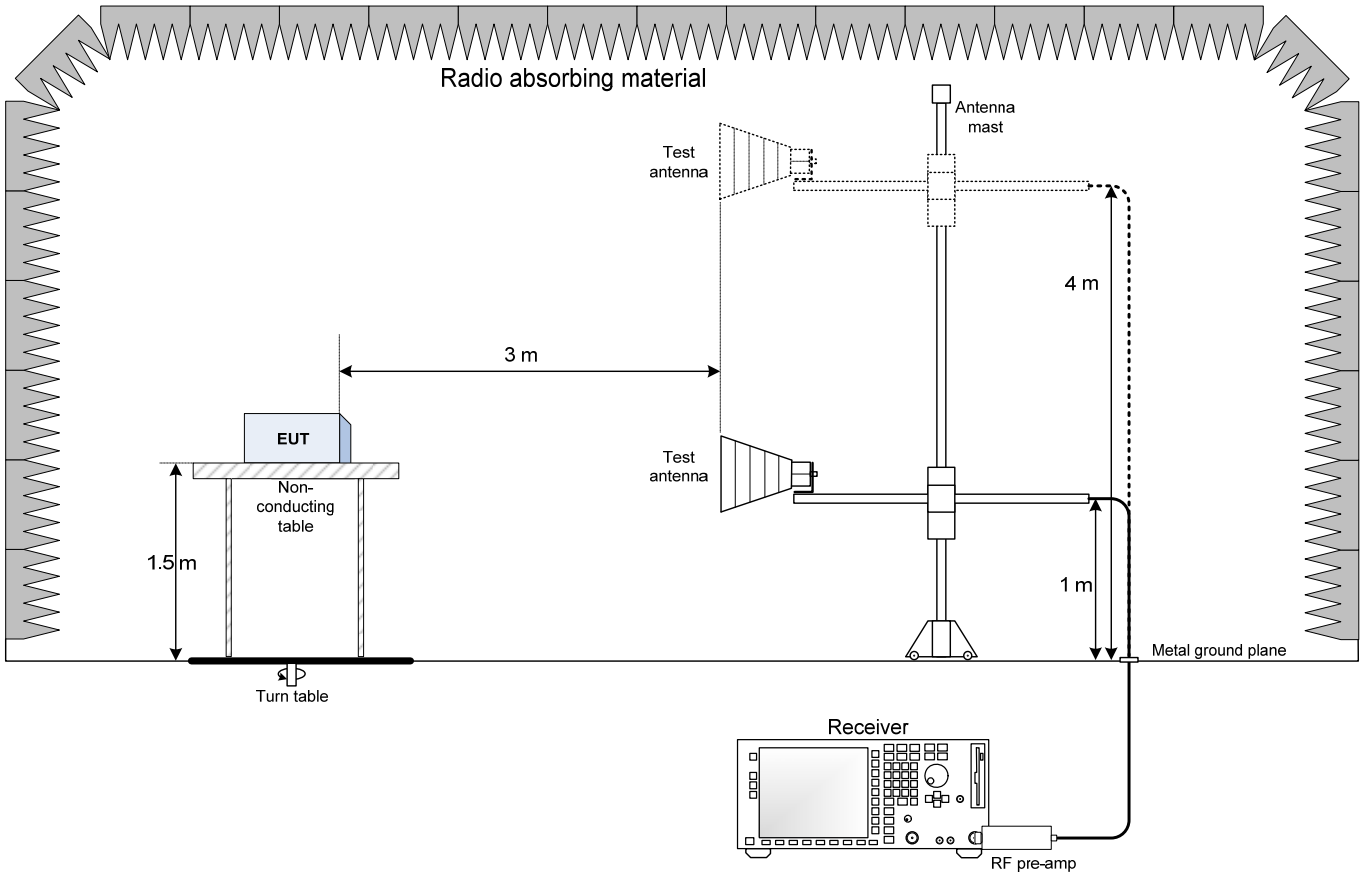
Note: Minimum lower band edge margin is more than 350 kHz.
Minimum upper band edge margin is more than 2MHz
The frequency drifts in above table are within these minimum margins, the emissions are deemed to maintain within the band of operation.

Section 9. Block diagrams of test set-ups

9.1 Radiated emissions set-up for frequencies below 1 GHz



9.2 Radiated emissions set-up for frequencies above 1 GHz



9.3 Conducted antenna port set-up

