



Product Service

5320 MHz

Modulation: BPSK

Peak Power Spectral Density (dBm)	3.371
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Frequency Band 3

5500 MHz

Modulation: BPSK

Peak Power Spectral Density (dBm)	2.295
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Product Service

Modulation: QPSK

Peak Power Spectral Density (dBm)	2.312
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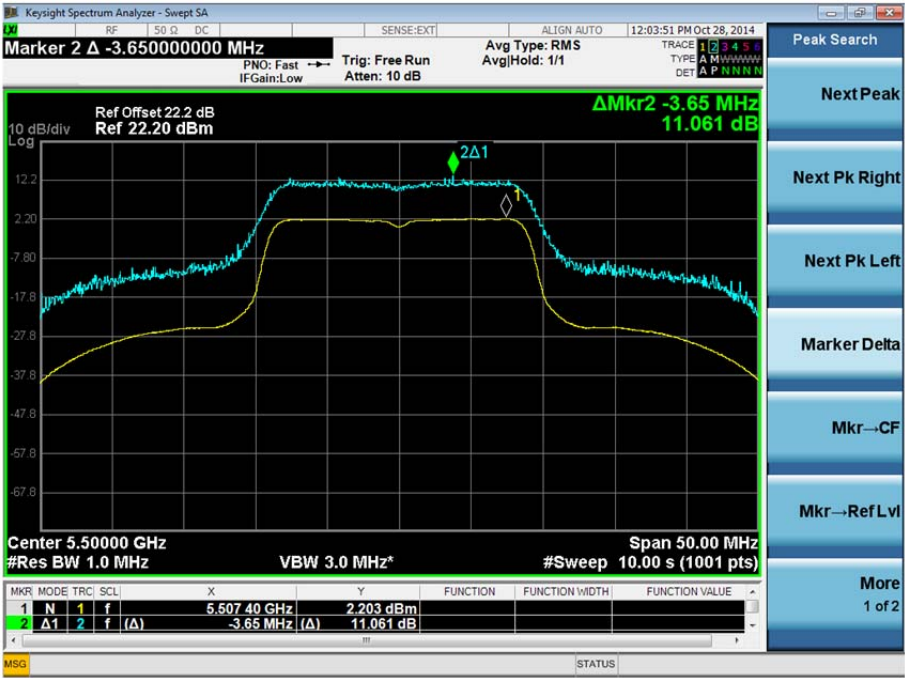




Product Service

Modulation: 16-QAM

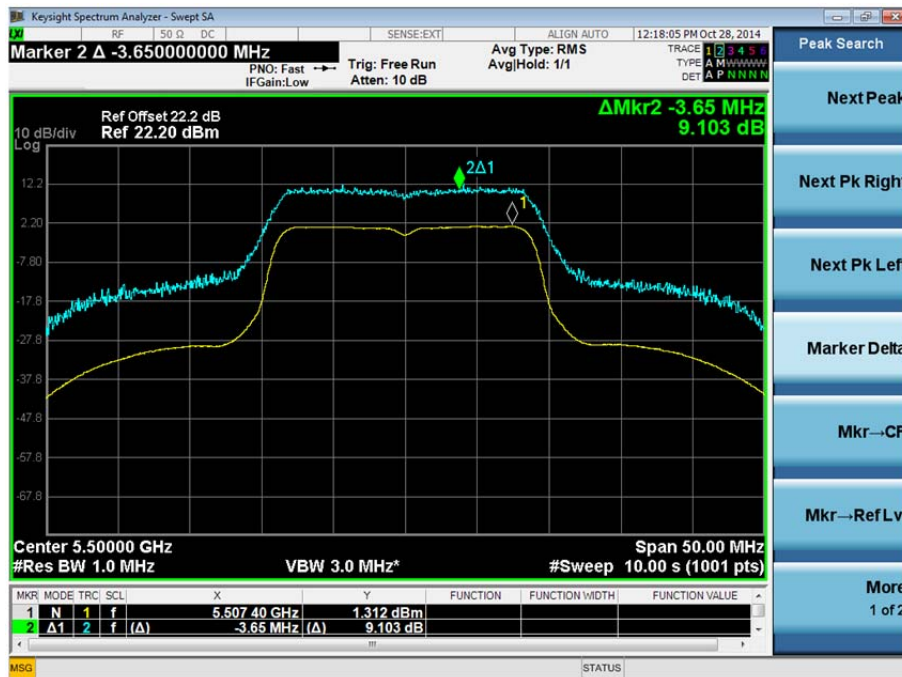
Peak Power Spectral Density (dBm)	2.203
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Modulation: 64-QAM

Peak Power Spectral Density (dBm)	1.312
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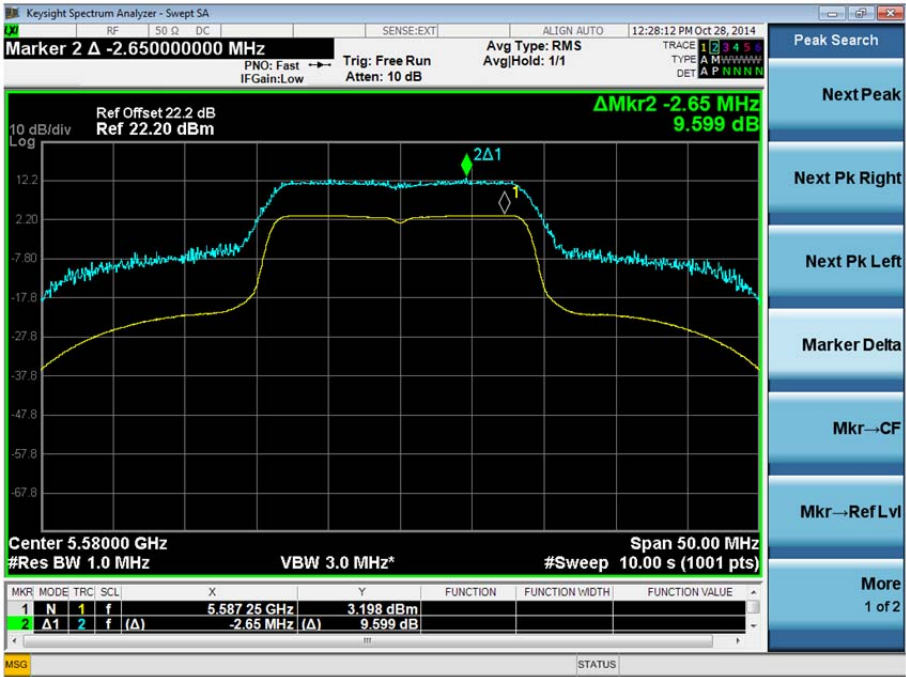


Product Service

5580 MHz

Modulation: BPSK

Peak Power Spectral Density (dBm)	3.198
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Product Service

5700 MHz

Modulation: BPSK

Peak Power Spectral Density (dBm)	2.413
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Limit

Frequency Band (MHz)	FCC Limit	IC Limit
5150 to 5250	<4 dB / 1 MHz	<10 dB / 1 MHz
5250 to 5350	<11 dB / 1 MHz	<11 dB / 1 MHz
5470 to 5725	<11 dB / 1 MHz	<11 dB / 1 MHz
5725 to 5825	<17 dB / 1 MHz	<17 dB / 1 MHz



Product Service

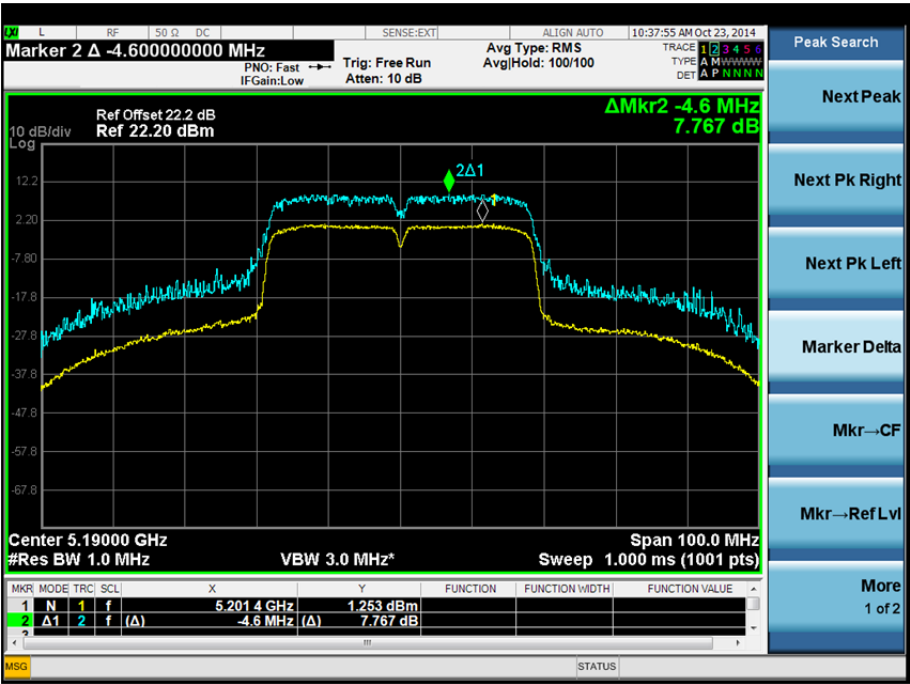
802.11(n) 40 MHz BW

Frequency Band 1

5190 MHz

Modulation: BPSK

Peak Power Spectral Density (dB)	1.253
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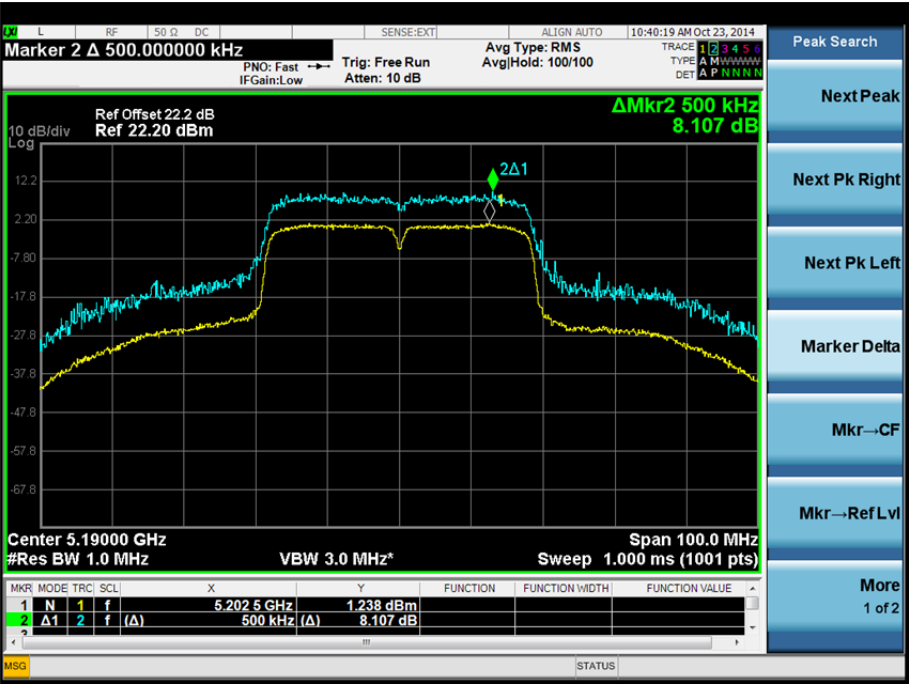




Product Service

Modulation: QPSK

Peak Power Spectral Density (dB)	1.238
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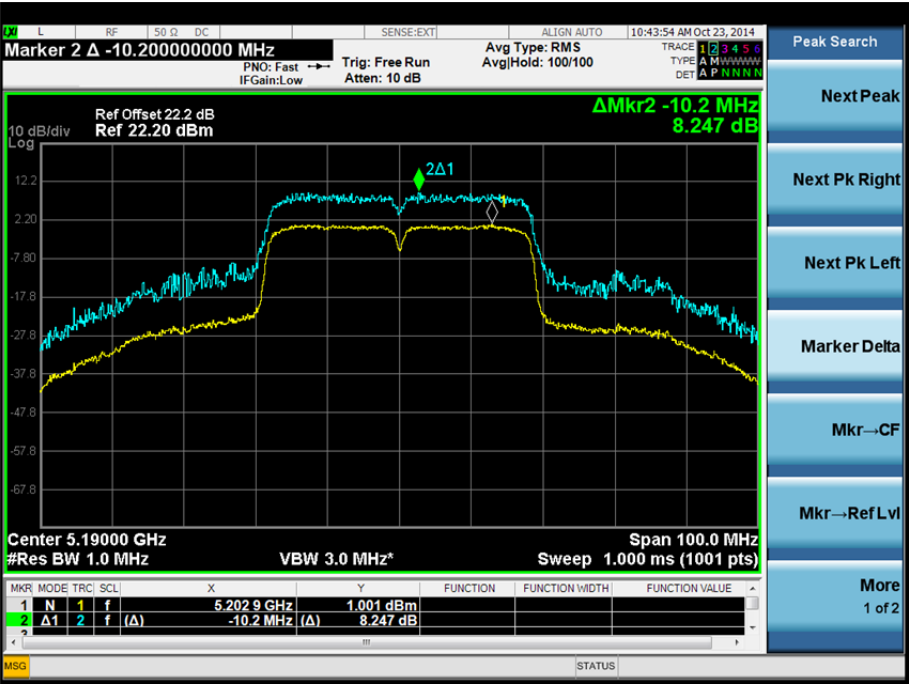




Product Service

Modulation: 16-QAM

Peak Power Spectral Density (dB)	1.001
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Product Service

Modulation: 64-QAM

Peak Power Spectral Density (dB)	1.087
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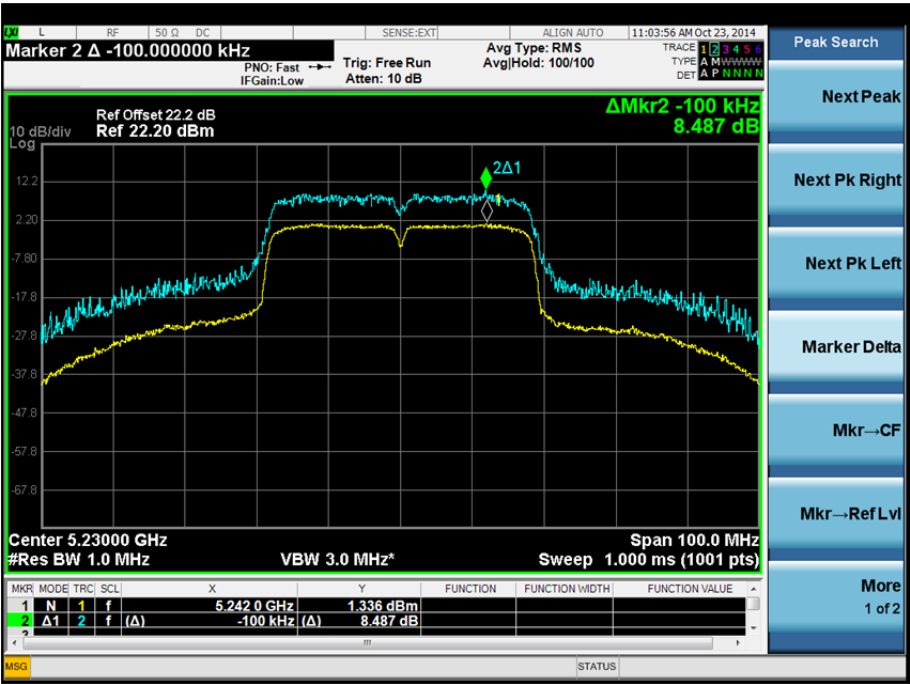


Product Service

5230 MHz

Modulation: BPSK

Peak Power Spectral Density (dB)	1.336
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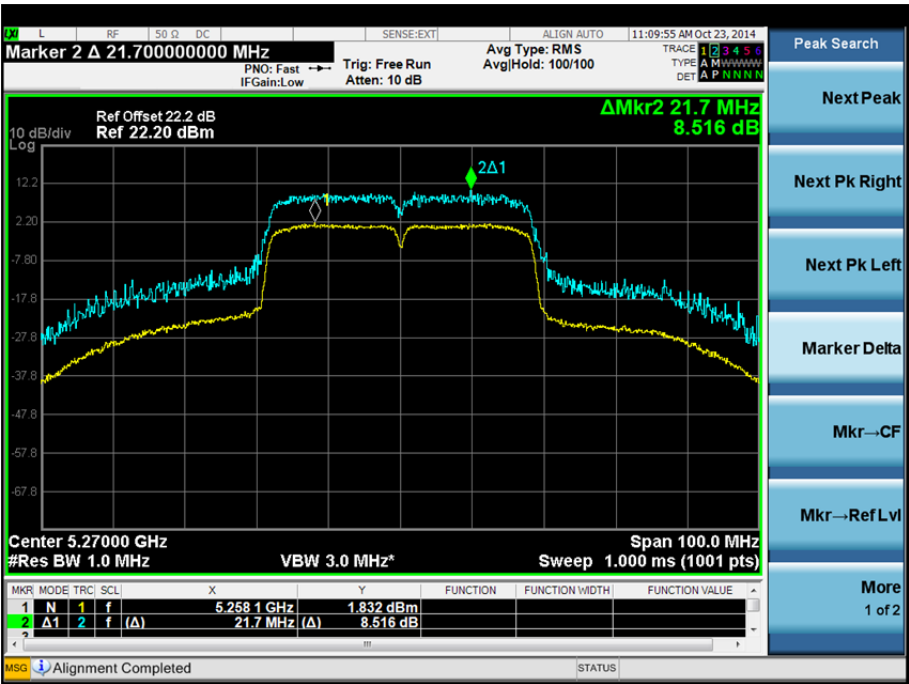
Product Service

Frequency Band 2

5270 MHz

Modulation: BPSK

Peak Power Spectral Density (dB)	1.832
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Product Service

Modulation: QPSK

Peak Power Spectral Density (dB)	1.616
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Product Service

Modulation: 16-QAM

Peak Power Spectral Density (dB)	1.635
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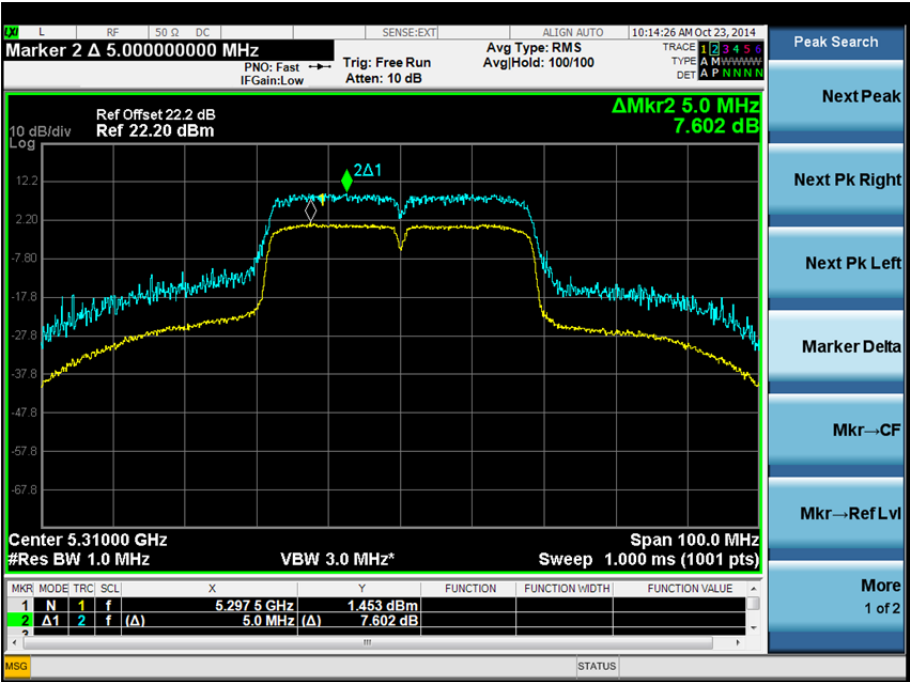


Product Service

5310 MHz

Modulation: BPSK

Peak Power Spectral Density (dB)	1.453
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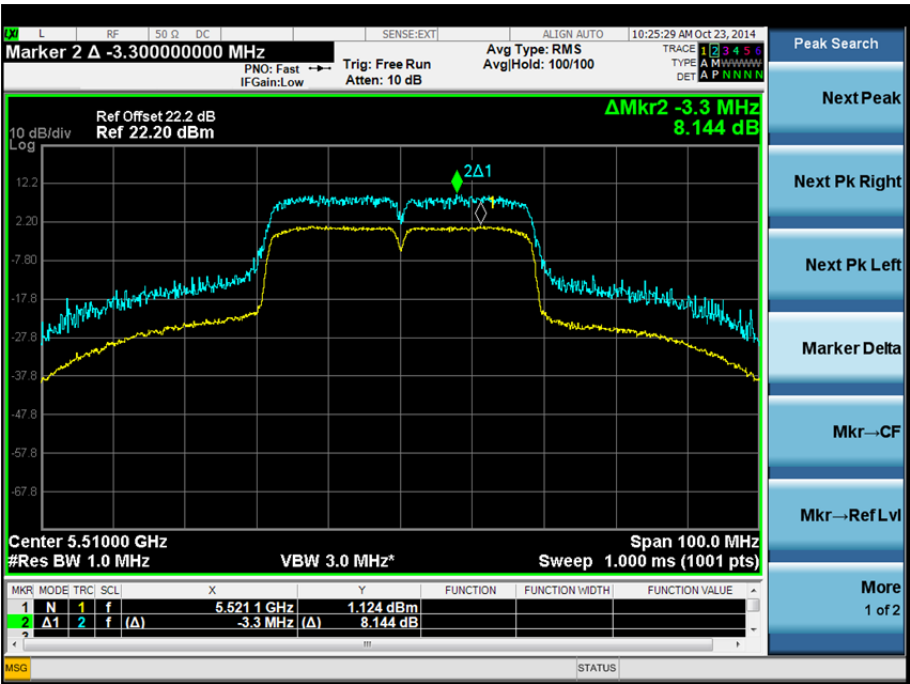
Product Service

Frequency Band 3

5510 MHz

Modulation: BPSK

Peak Power Spectral Density (dB)	1.124
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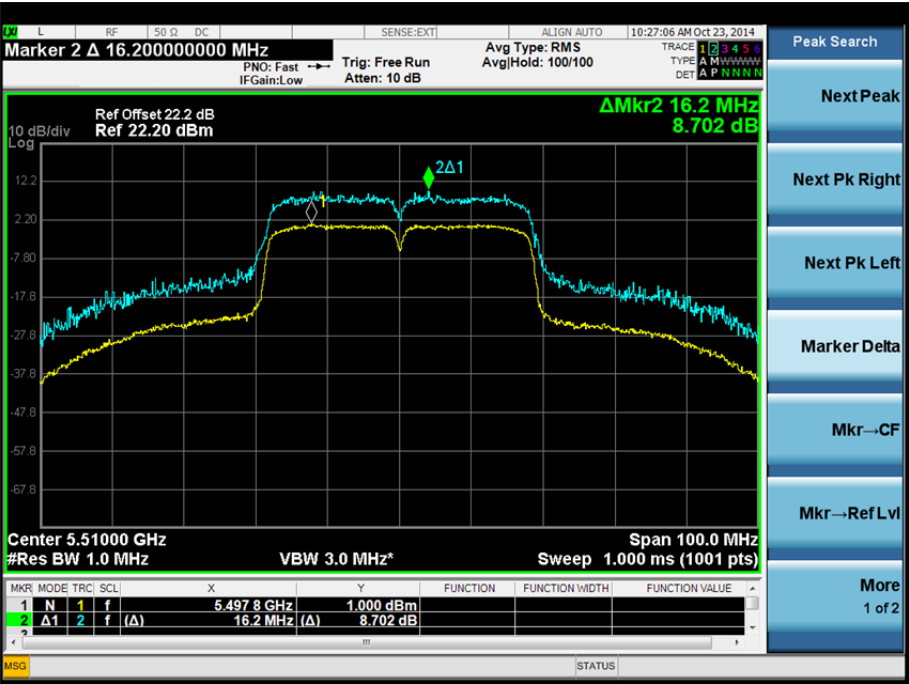




Product Service

Modulation: QPSK

Peak Power Spectral Density (dB)	1.000
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Product Service

Modulation: 16-QAM

Peak Power Spectral Density (dB)	1.266
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Product Service

Modulation: 64-QAM

Peak Power Spectral Density (dB)	1.287
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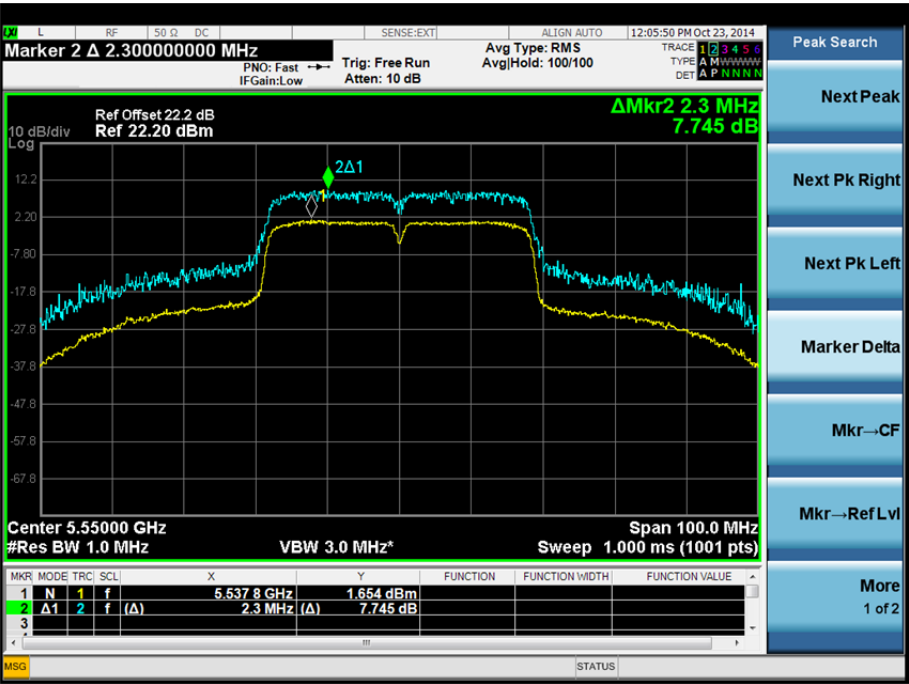


Product Service

5550 MHz

Modulation: BPSK

Peak Power Spectral Density (dB)	1.654
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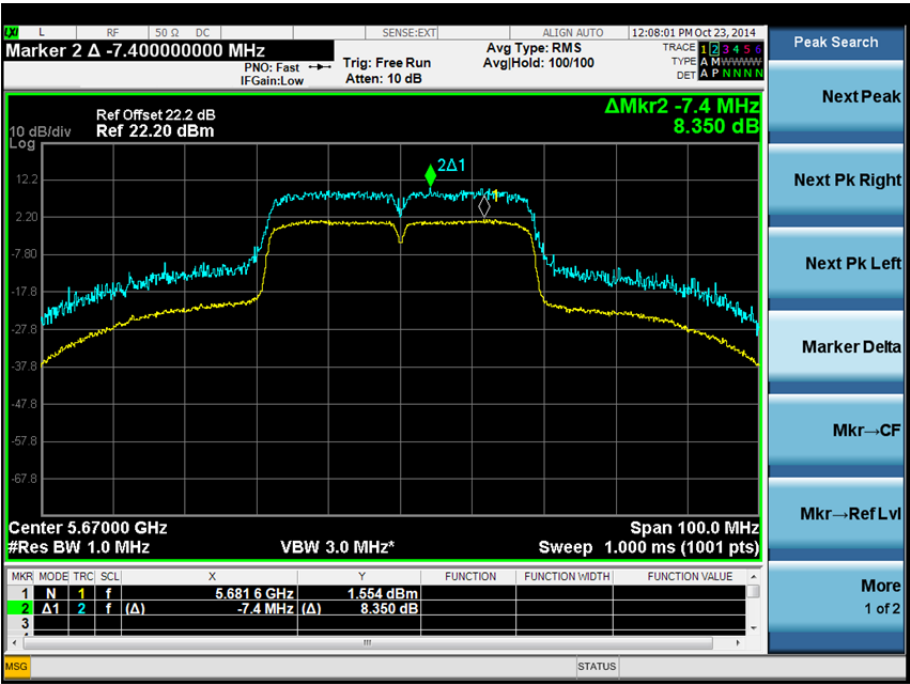


Product Service

5670 MHz

Modulation: BPSK

Peak Power Spectral Density (dB)	1.554
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Limit

Frequency Band (MHz)	FCC Limit	IC Limit
5150 to 5250	<4 dB / 1 MHz	<10 dB / 1 MHz
5250 to 5350	<11 dB / 1 MHz	<11 dB / 1 MHz
5470 to 5725	<11 dB / 1 MHz	<11 dB / 1 MHz
5725 to 5825	<17 dB / 1 MHz	<17 dB / 1 MHz



Product Service

2.5 RATIO OF THE PEAK EXCURSION OF THE MODULATION ENVELOPE

2.5.1 Specification Reference

FCC CFR 47 Part 15E, Clause 15.407 (a)(6)

2.5.2 Equipment Under Test and Modification State

YotaPhone2/ YD201 S/N: Not Serialised (75927375-TSR0007) - Modification State 1
YotaPhone2/ YD201 S/N: Not Serialised (75927375-TSR0007) - Modification State 0

2.5.3 Date of Test

23 October 2014, 27 October 2014 & 28 October 2014

2.5.4 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.5.5 Test Procedure

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 15.407 (a) and KDB 789033 D01 General UNII Test Procedures 1 Old Rules v01r04.

The EUT was transmitted at maximum power for bottom, middle and top channels with a data rate that was determined to produce the greatest average RF output power. In addition, all modulation types were tested for Peak Excursion on each test in each applicable frequency band. The EUT was connected to the Spectrum Analyser via attenuators and cables. For Trace 1, the analyser settings were configured with an RBW of 1 MHz and video bandwidth of 3MHz. The trace was set to a 10 second sweep time using an RMS detector. The maximum value was recorded for Power Spectral Density. For Trace 2, the RBW was set to 1MHz and the VBW to 3MHz. A Peak detector and Max Hold were used with a 10 second sweep time. The peak value was found and referenced to the Peak in Trace 1 to give the Peak Excursion.

2.5.6 Environmental Conditions

Ambient Temperature	23.0 - 25.9°C
Relative Humidity	42.2 - 54.9%



Product Service

2.5.7 Test Results

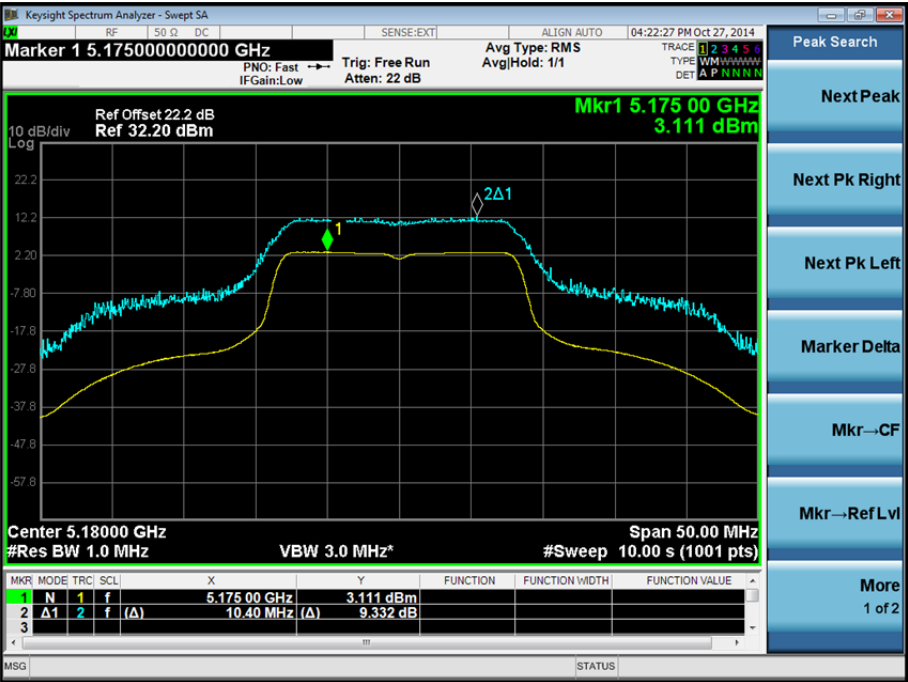
802.11(a)

Frequency Band 1

5180 MHz

Modulation: BPSK

Ratio (dB)	9.332
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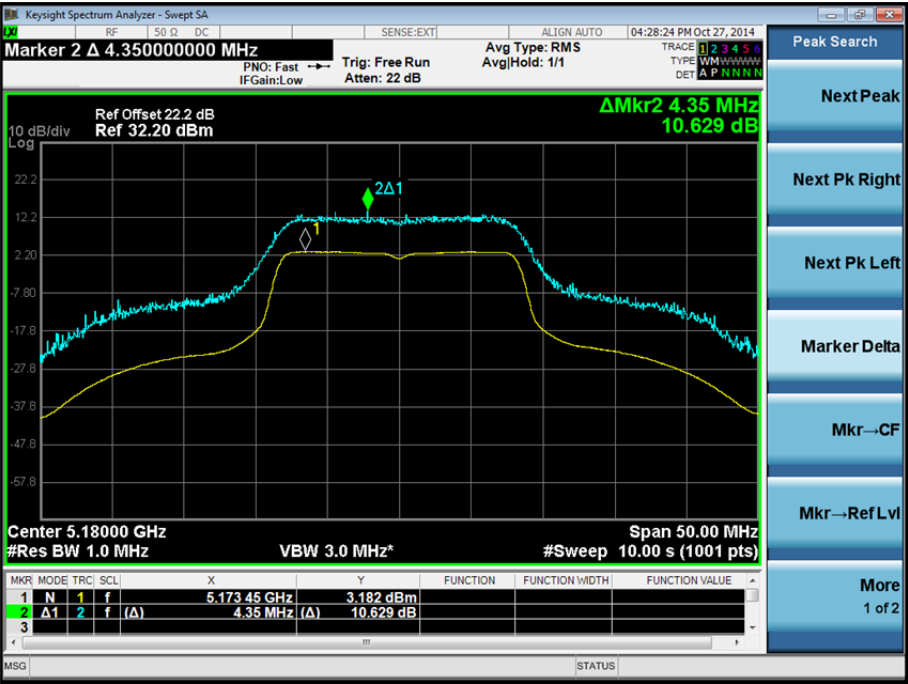




Product Service

Modulation: QPSK

Ratio (dB)	10.629
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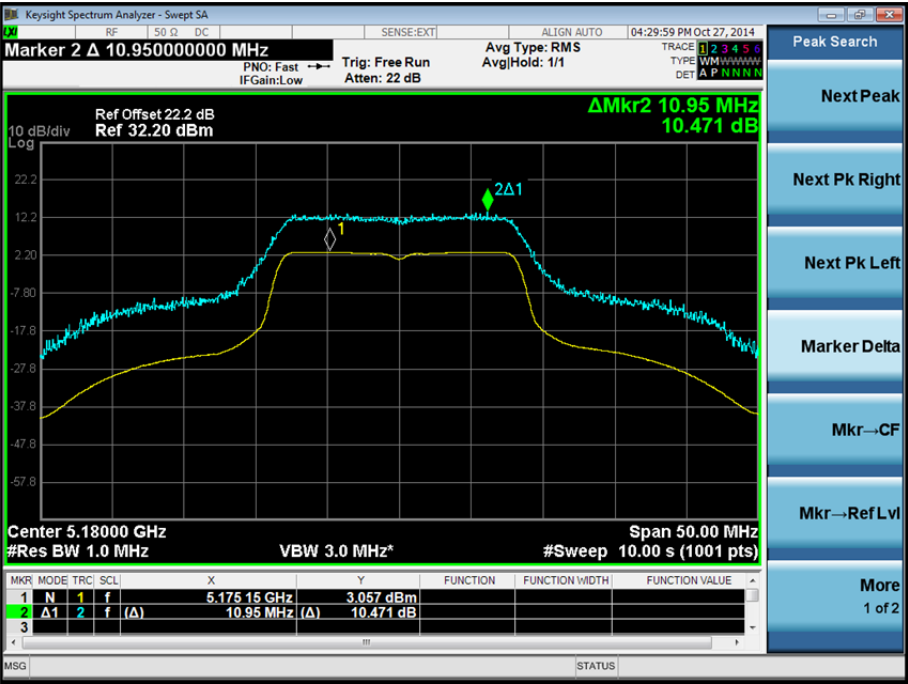




Product Service

Modulation: 16-QAM

Ratio (dB)	10.471
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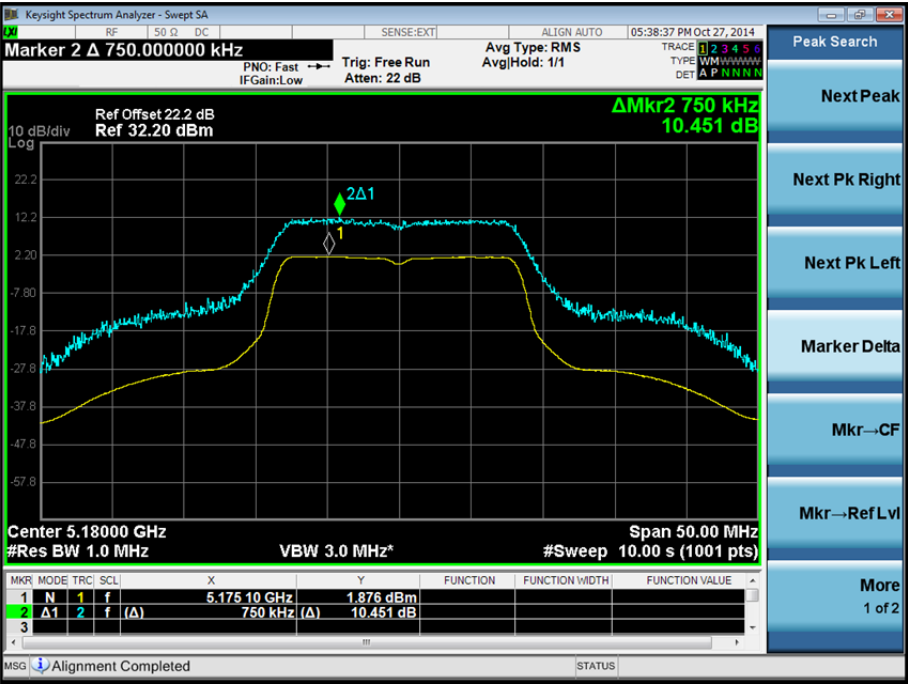




Product Service

Modulation: 64-QAM

Ratio (dB)	10.451
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Product Service

5220 MHz

Ratio (dB)	9.860
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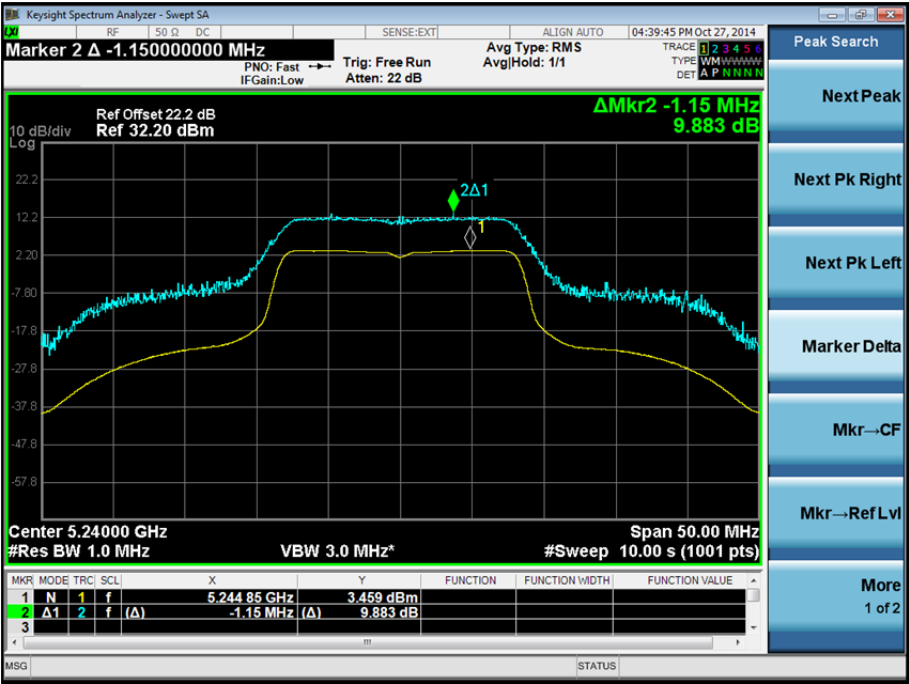




Product Service

5240 MHz

Ratio (dB)	9.883
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Product Service

Frequency Band 2

5260 MHz

Modulation: BPSK

Ratio (dB)	9.432
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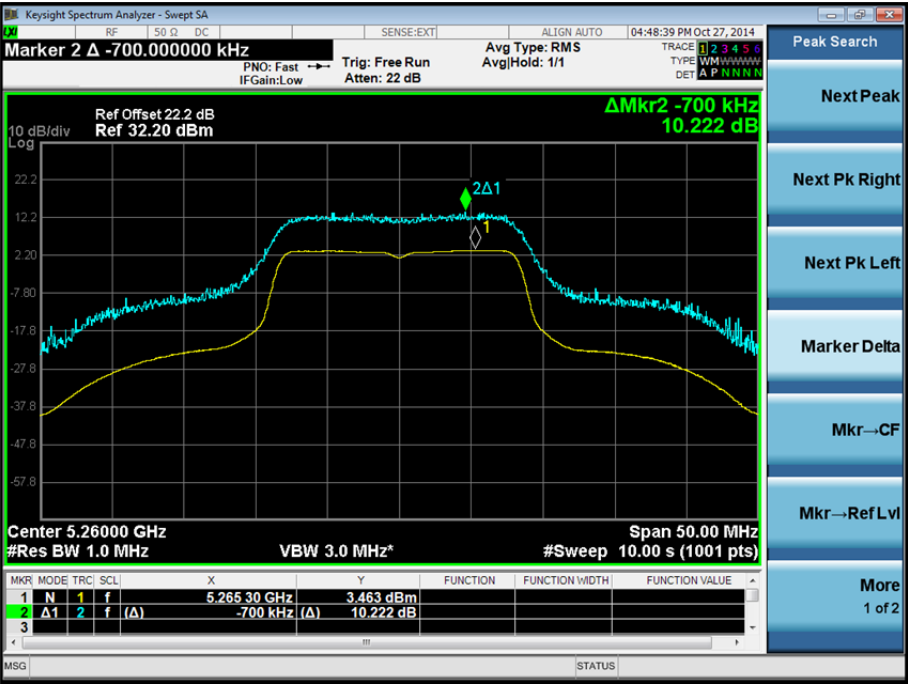




Product Service

Modulation: QPSK

Ratio (dB)	10.222
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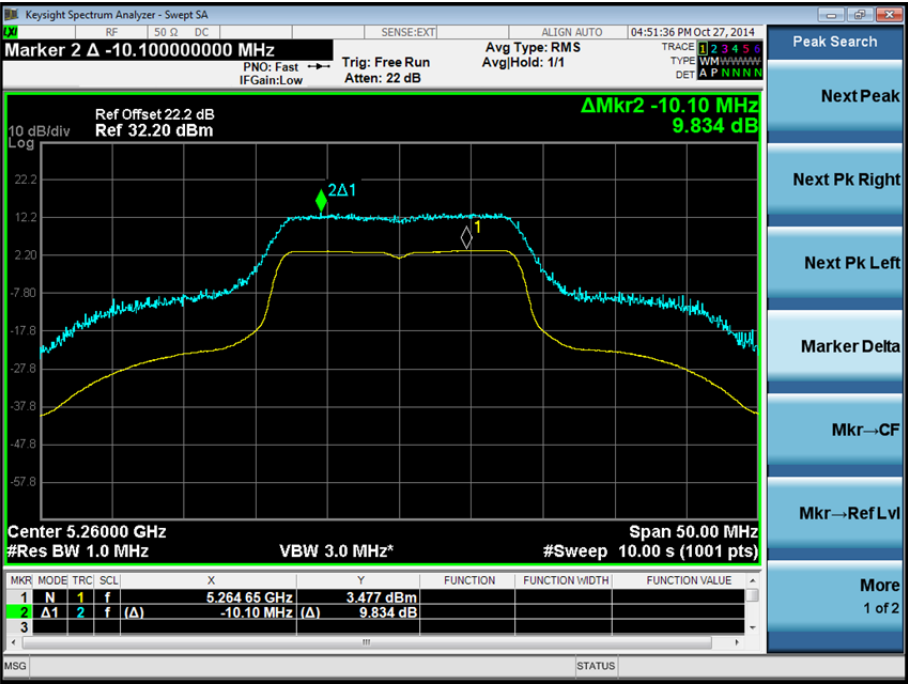




Product Service

Modulation: 16-QAM

Ratio (dB)	9.834
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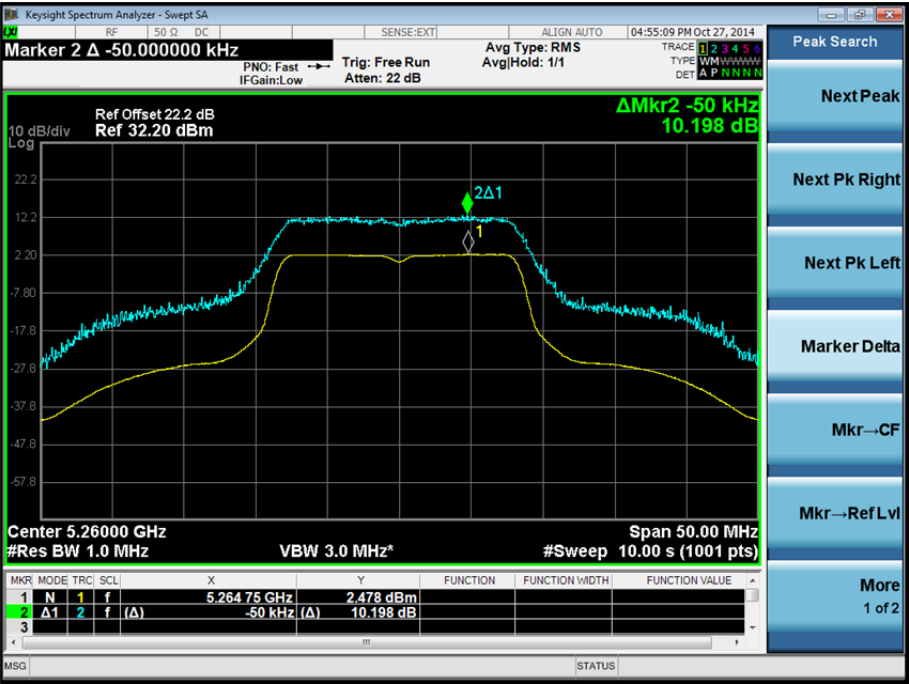




Product Service

Modulation: 64-QAM

Ratio (dB)	10.198
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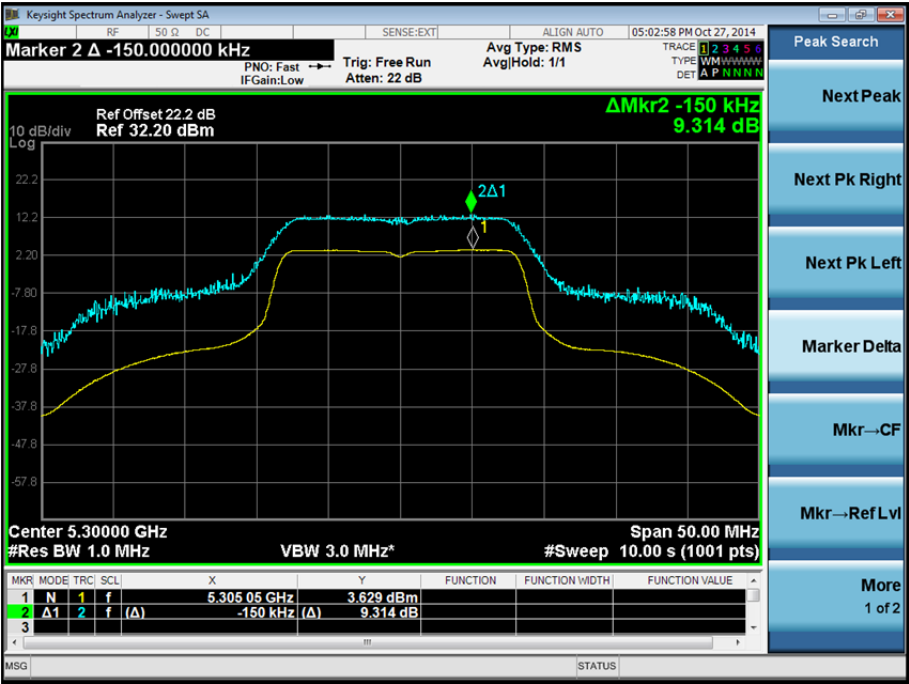




Product Service

5300 MHz

Ratio (dB)	9.314
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Product Service

5320 MHz

Ratio (dB)	9.514
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Product Service

Frequency Band 3

5500 MHz

Modulation: BPSK

Ratio (dB)	9.461
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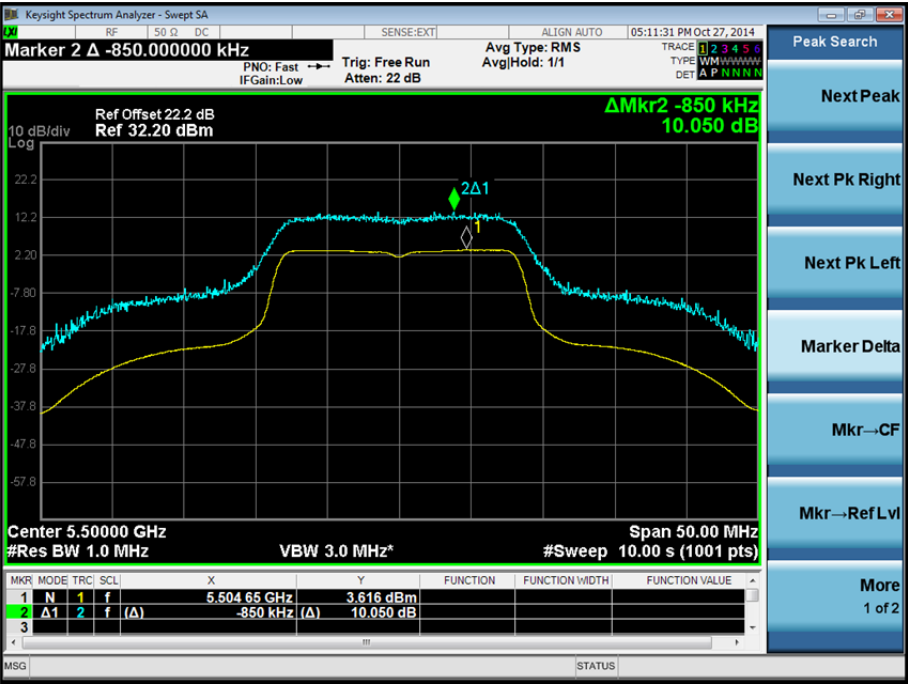




Product Service

Modulation: QPSK

Ratio (dB)	10.050
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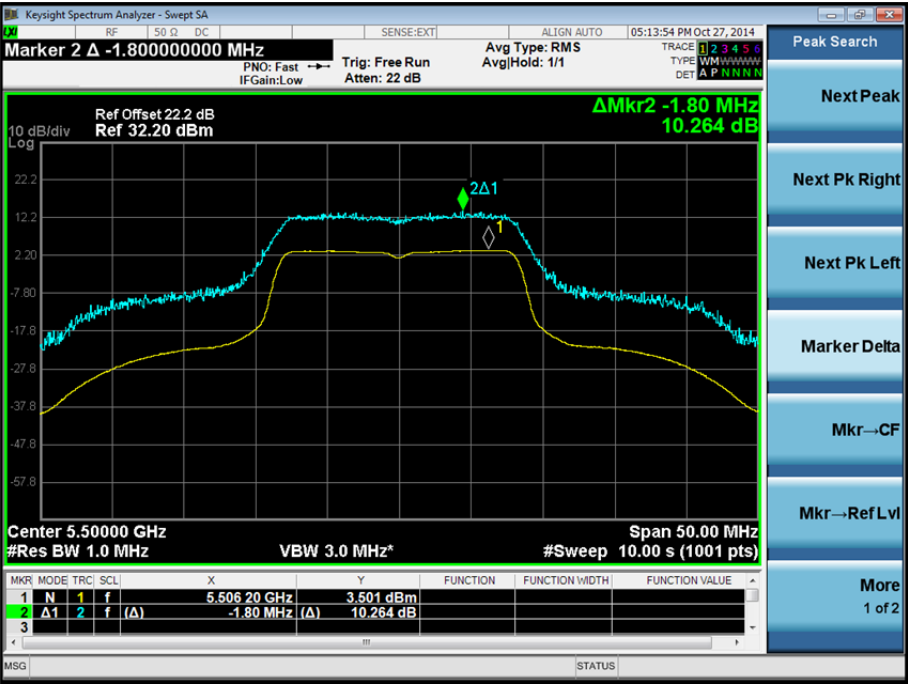




Product Service

Modulation: 16-QAM

Ratio (dB)	10.264
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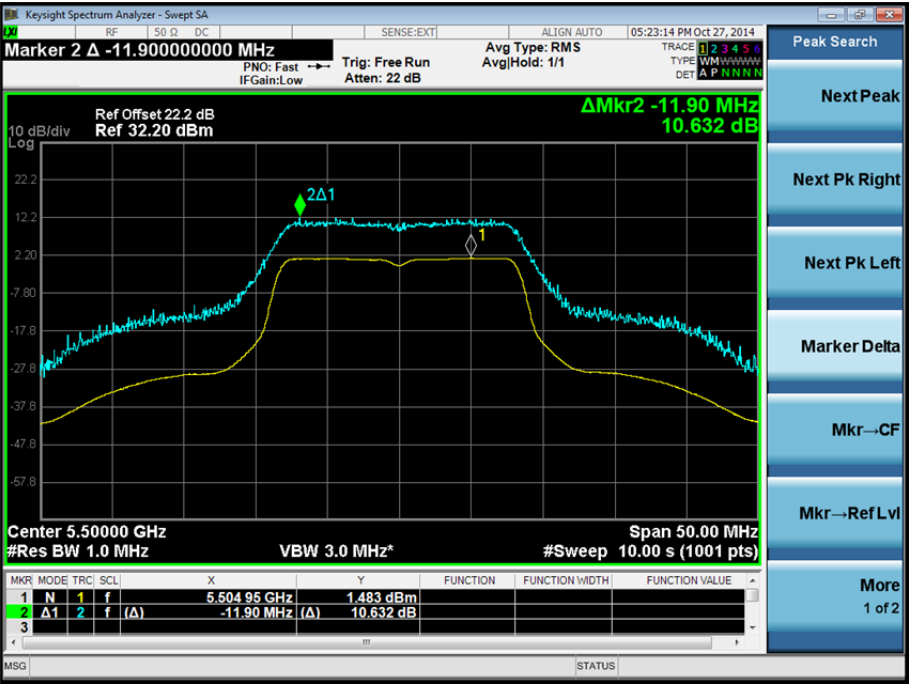




Product Service

Modulation: 64-QAM

Ratio (dB)	10.632
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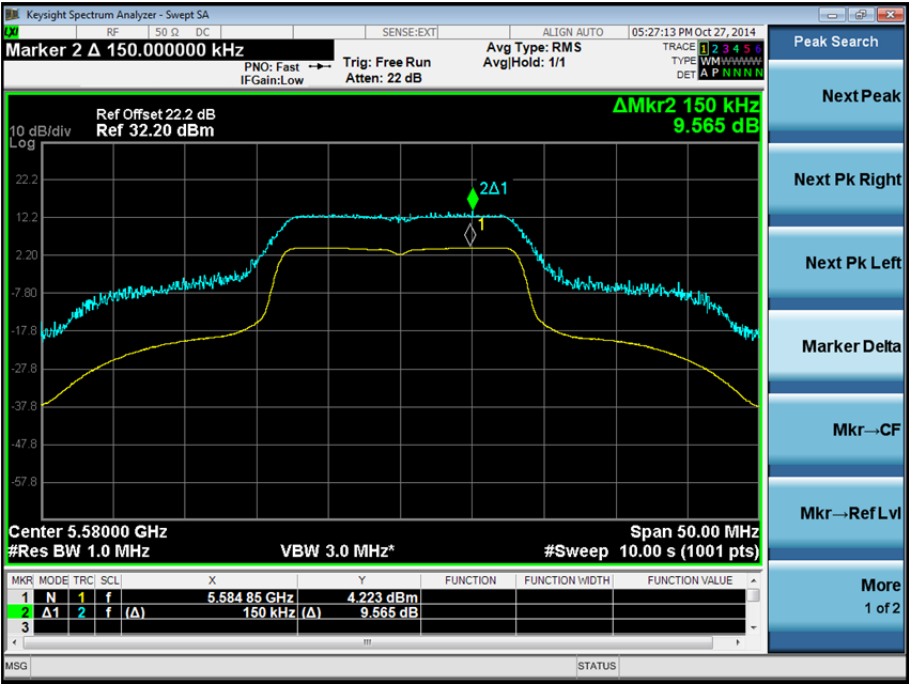




Product Service

5580 MHz

Ratio (dB)	9.754
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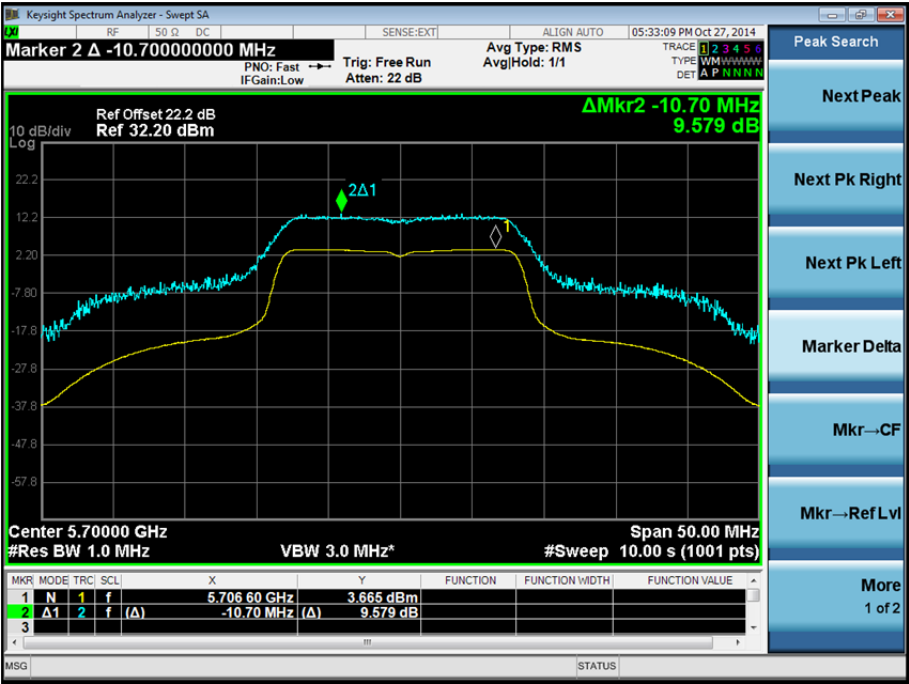




Product Service

5700 MHz

Ratio (dB)	9.579
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Limit

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.



Product Service

802.11(ac) 20 MHz BW

Frequency Band 1

5180 MHz

Modulation: BPSK

Ratio (dB)	7.626
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