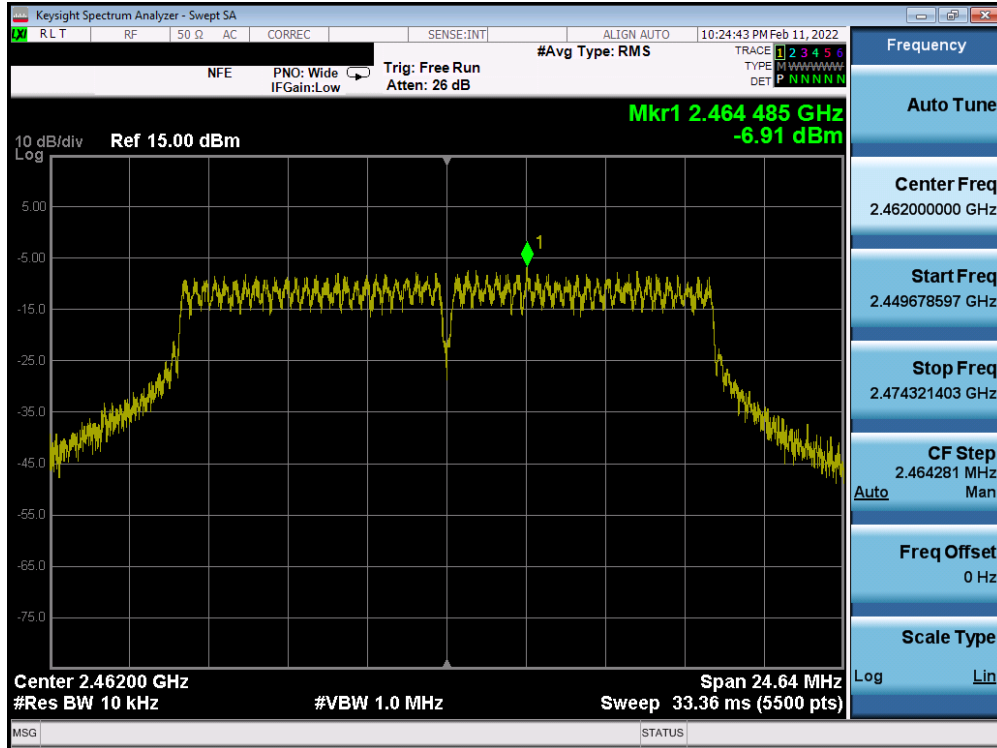
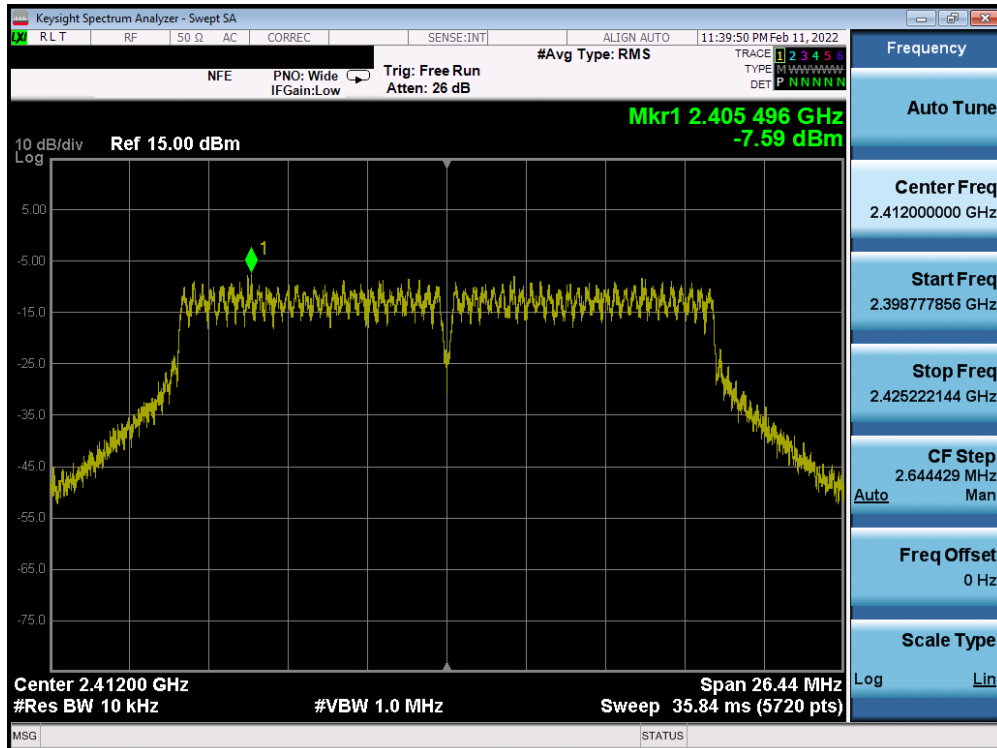


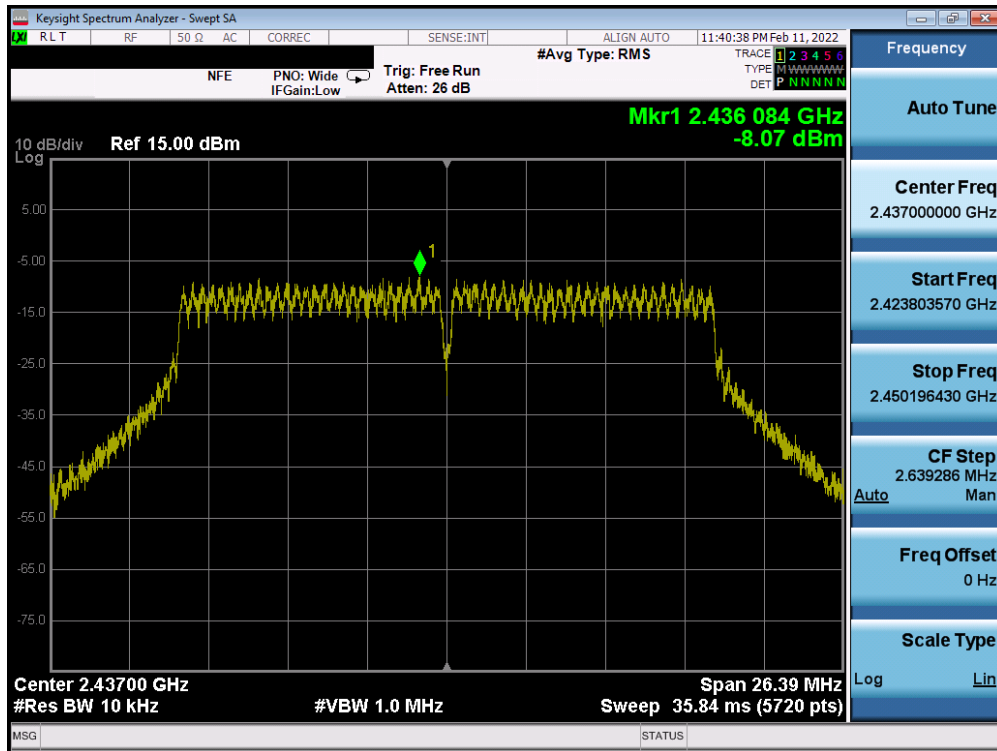


Plot 7-51. Power Spectral Density Plot SISO ANT2 (802.11g – Ch. 11)

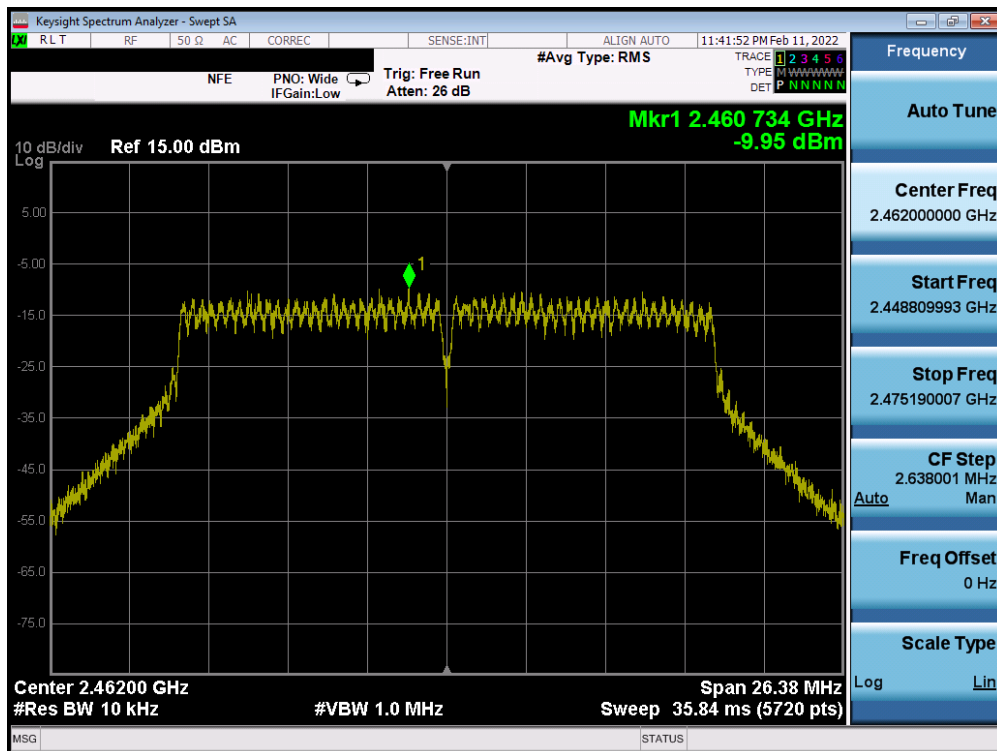


Plot 7-52. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 1)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 47 of 106



Plot 7-53. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 6)



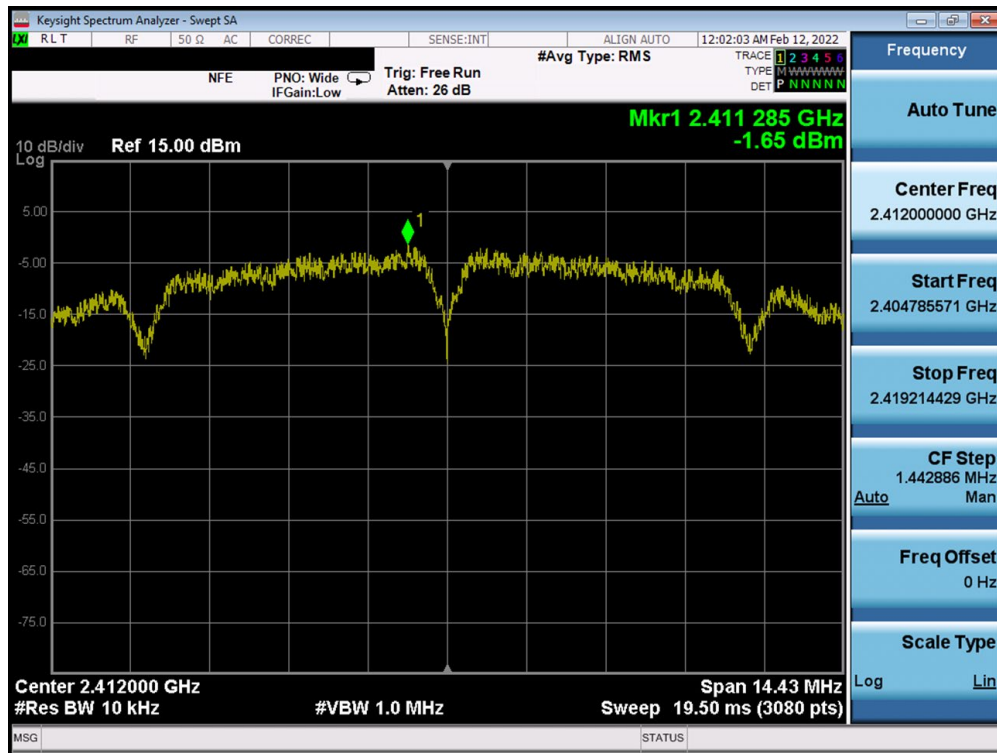
Plot 7-54. Power Spectral Density Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 48 of 106

MIMO Power Spectral Density Measurements

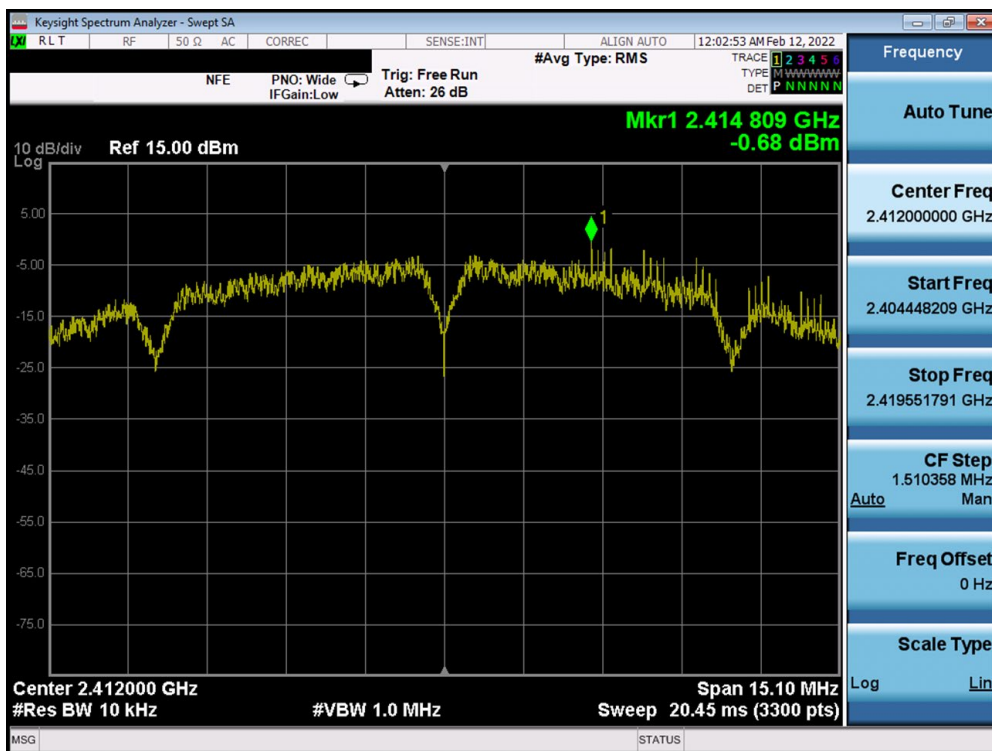
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	1	-1.65	-0.68	1.87	8.00	-6.13	Pass
2437	6	b	1	-0.35	1.85	3.90	8.00	-4.10	Pass
2462	11	b	1	2.14	2.19	5.17	8.00	-2.83	Pass
2412	1	g	6	-7.61	-7.20	-4.39	8.00	-12.39	Pass
2437	6	g	6	-6.13	-6.47	-3.29	8.00	-11.29	Pass
2462	11	g	6	-9.70	-9.92	-6.80	8.00	-14.80	Pass
2412	1	n	6.5/7.2 (MCS0)	-8.98	-10.64	-6.72	8.00	-14.72	Pass
2437	6	n	6.5/7.2 (MCS0)	-6.52	-7.69	-4.05	8.00	-12.05	Pass
2462	11	n	6.5/7.2 (MCS0)	-8.39	-9.18	-5.76	8.00	-13.76	Pass

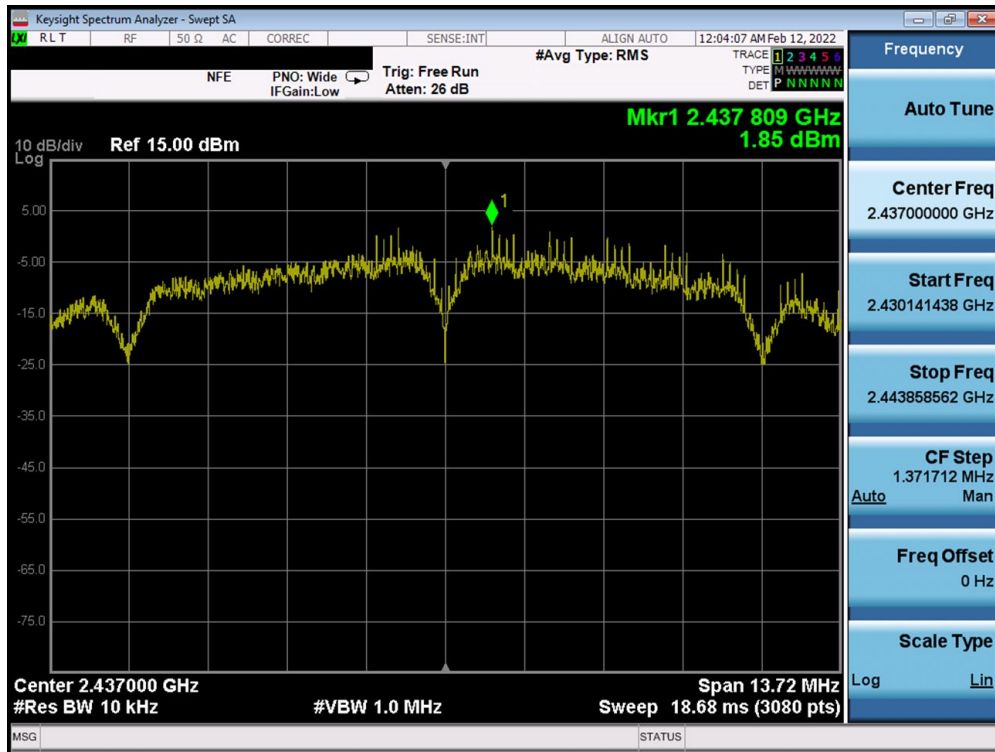
Table 7-12.MIMO Conducted Power Density Measurements



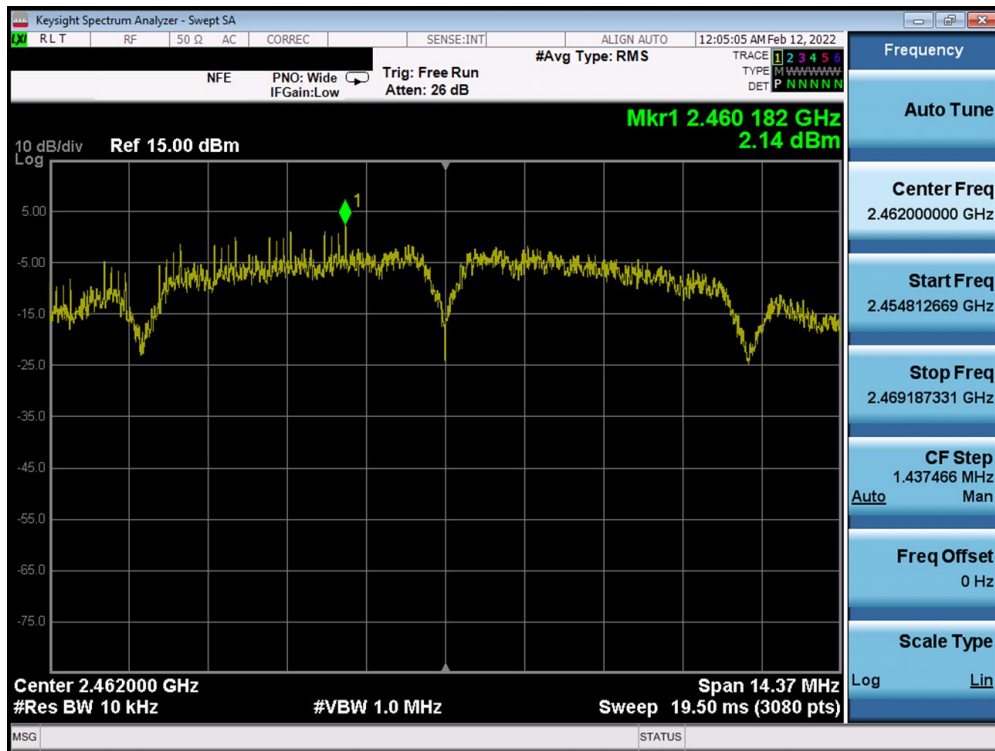
Plot 7-55. Power Spectral Density Plot MIMO ANT1 (802.11b – Ch. 1)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 49 of 106



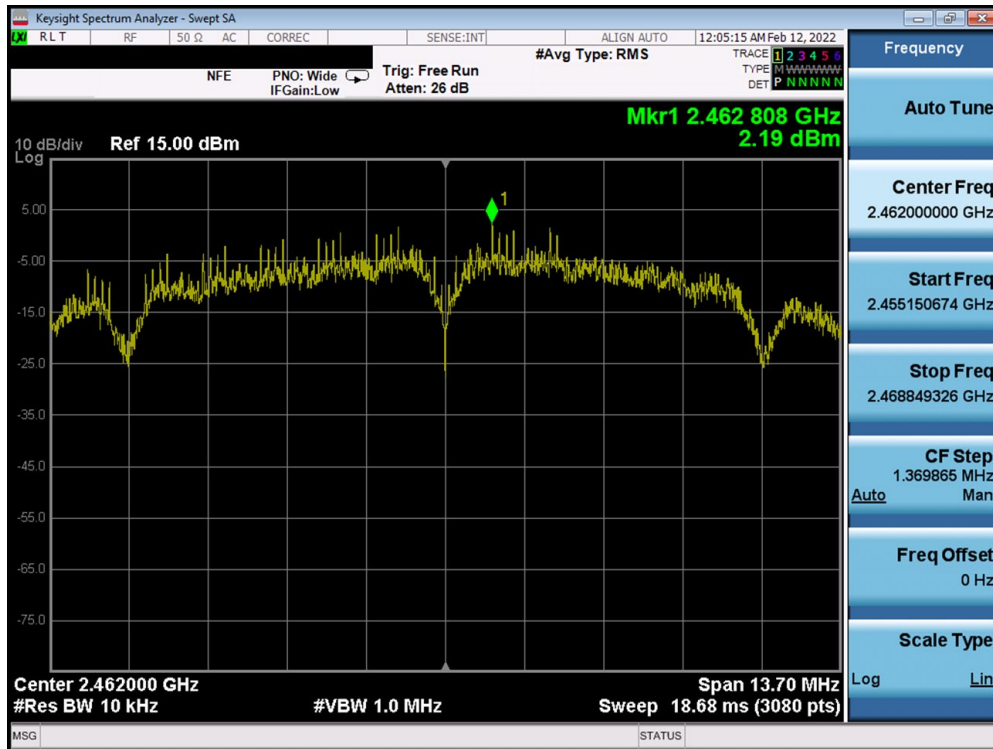


Plot 7-58. Power Spectral Density Plot MIMO ANT2 (802.11b – Ch. 6)

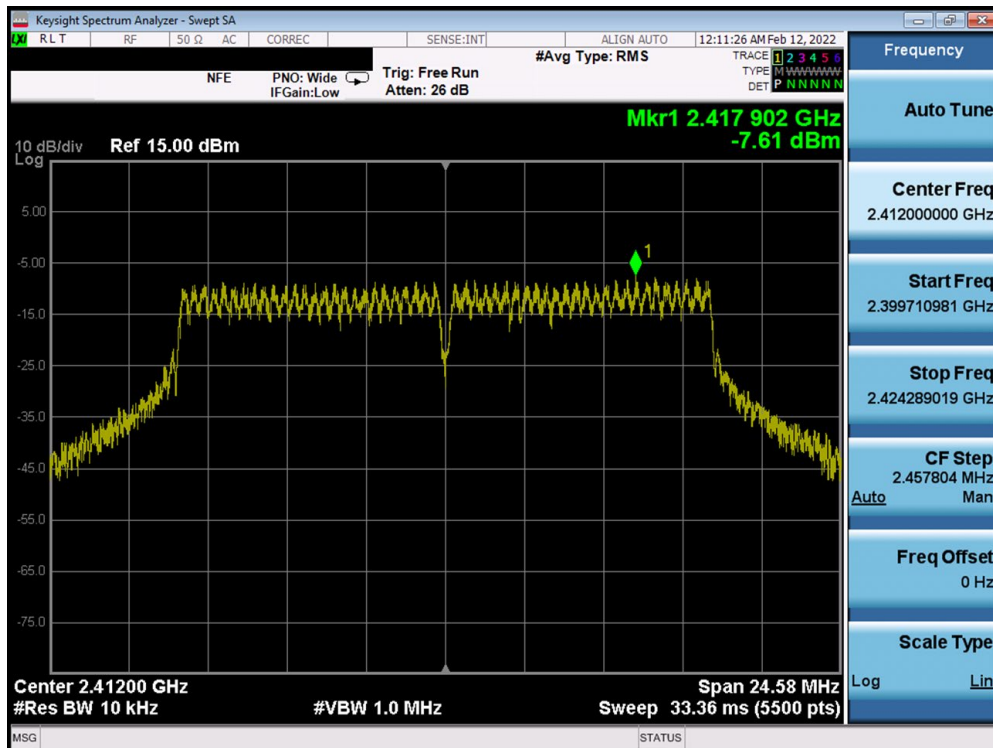


Plot 7-59. Power Spectral Density Plot MIMO ANT1 (802.11b – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 51 of 106

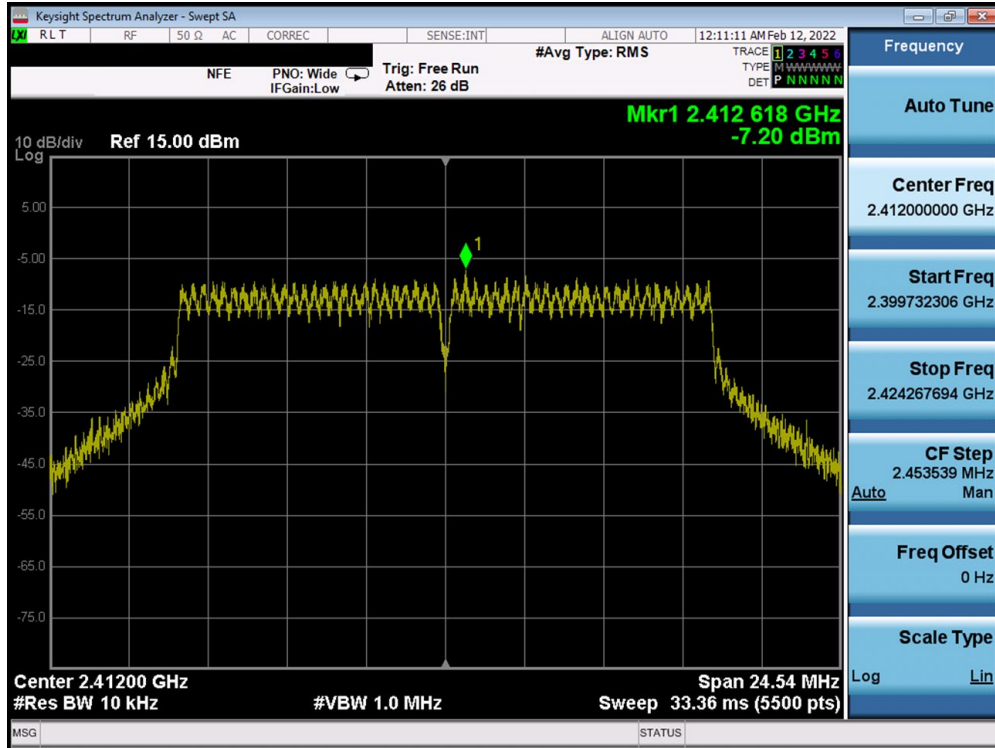


Plot 7-60. Power Spectral Density Plot MIMO ANT2 (802.11b – Ch. 11)

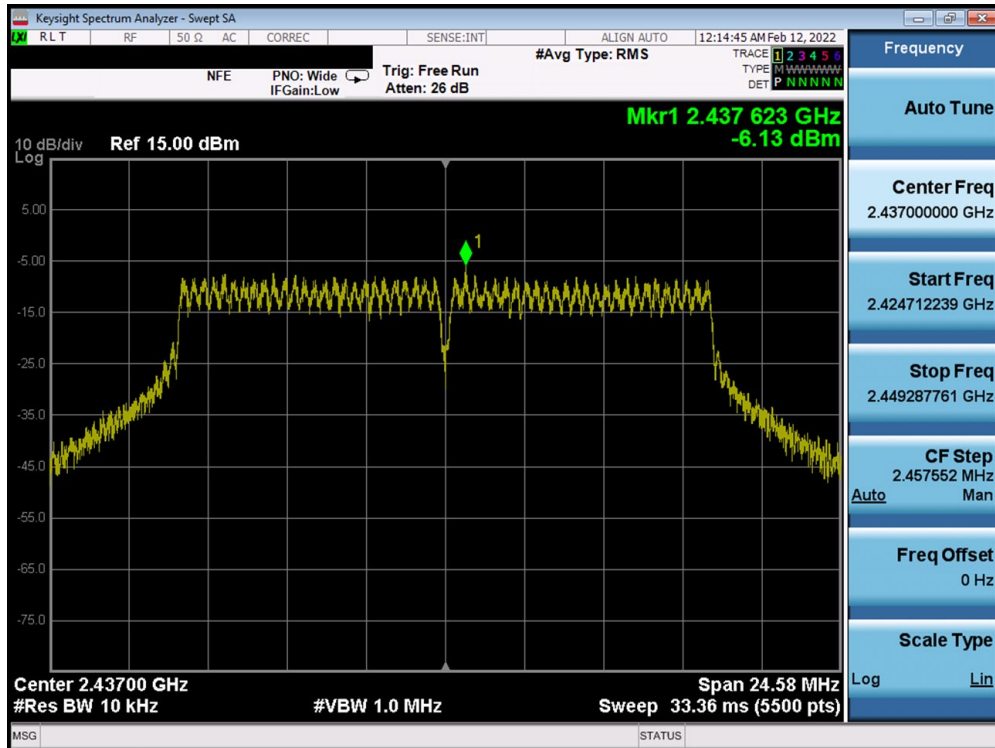


Plot 7-61. Power Spectral Density Plot MIMO ANT1 (802.11g – Ch. 1)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 52 of 106

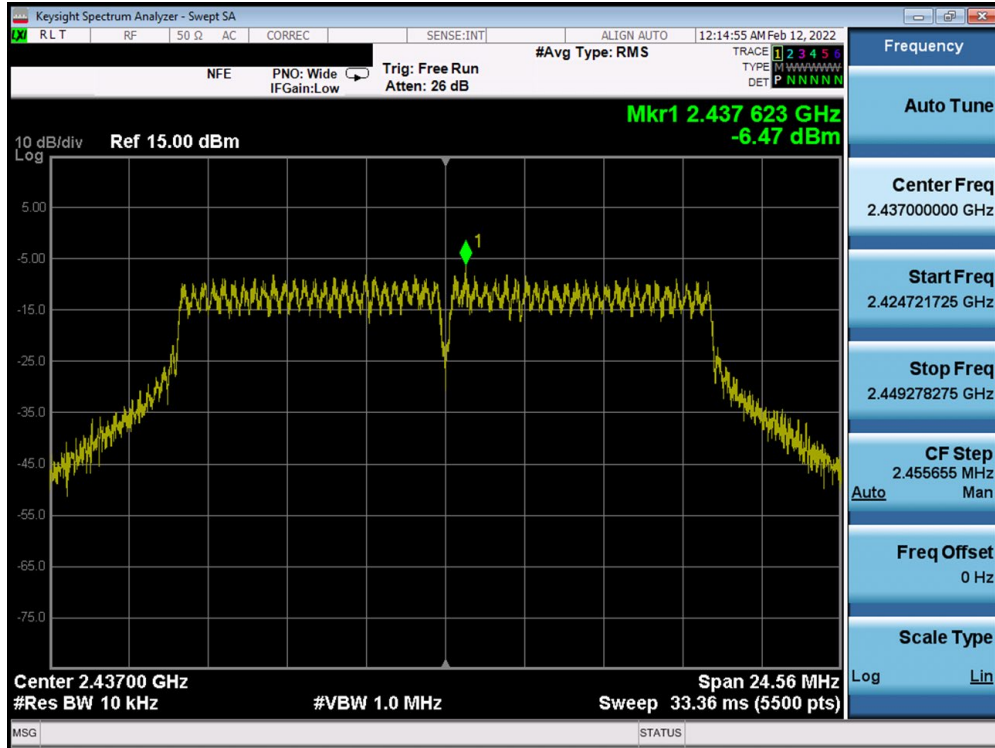


Plot 7-62. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 1)

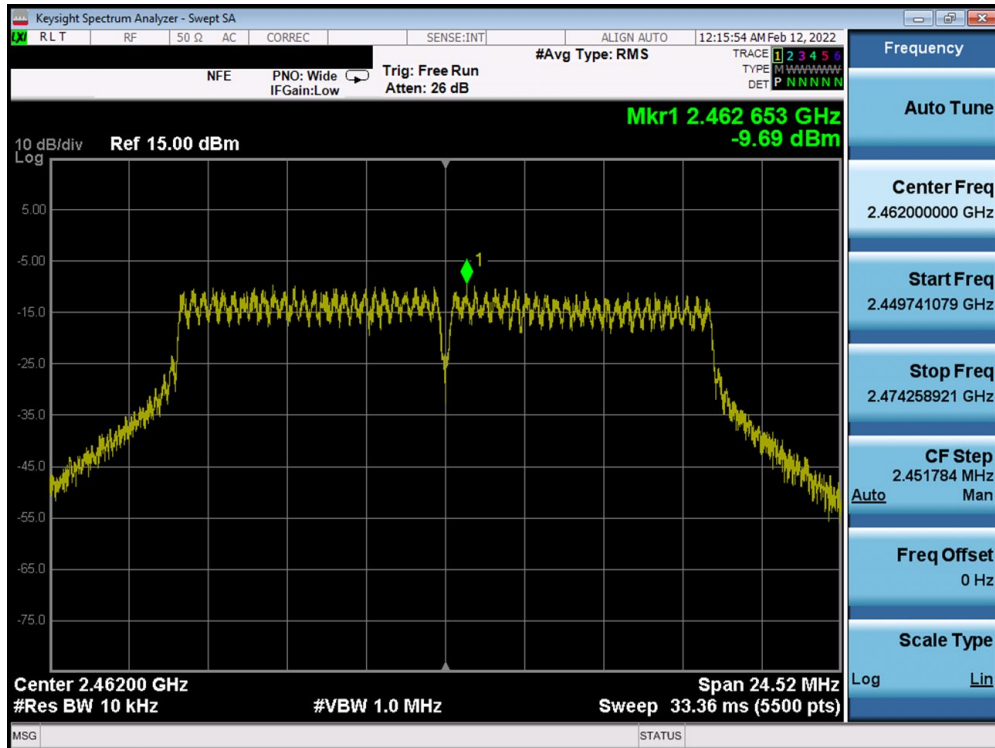


Plot 7-63. Power Spectral Density Plot MIMO ANT1 (802.11g – Ch. 6)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 53 of 106

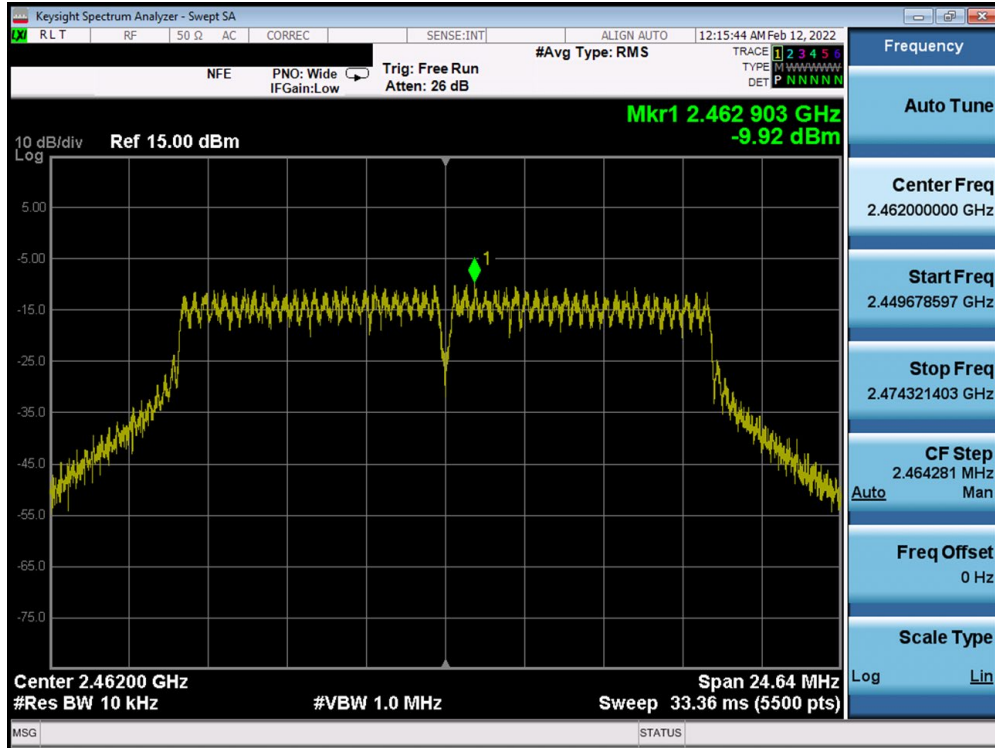


Plot 7-64. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 6)

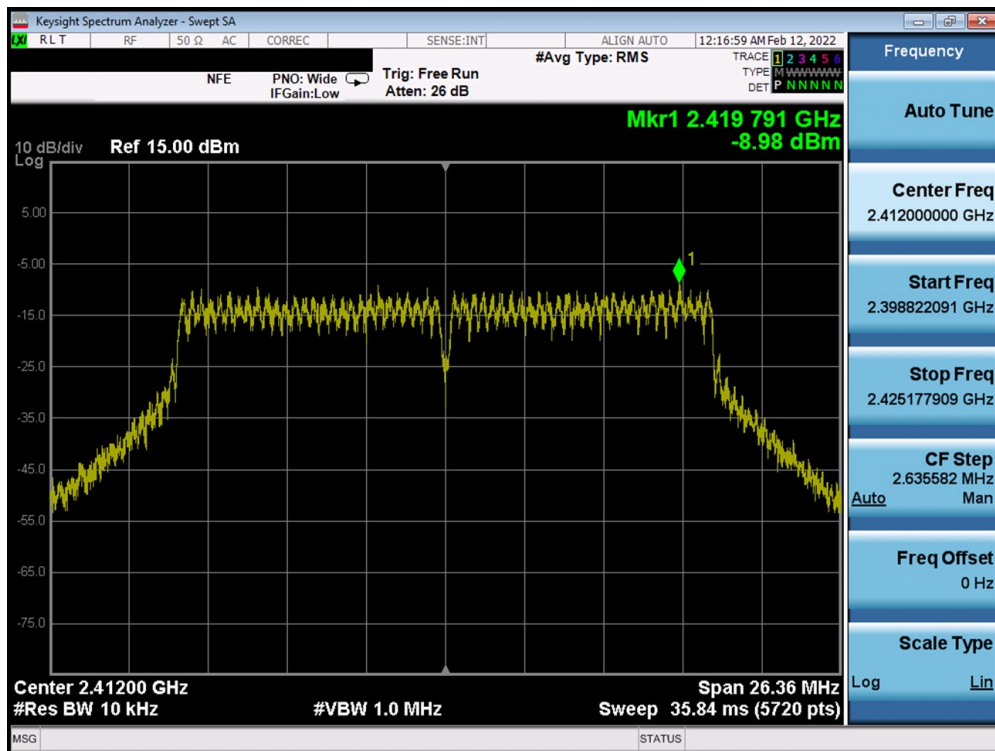


Plot 7-65. Power Spectral Density Plot MIMO ANT1 (802.11g – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 54 of 106

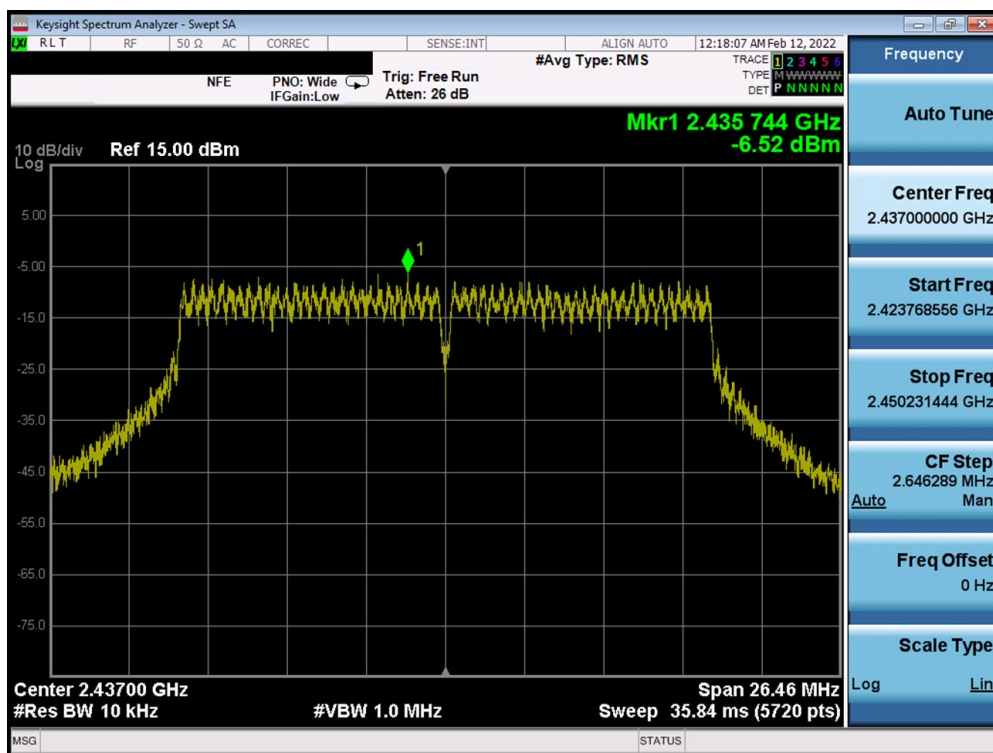
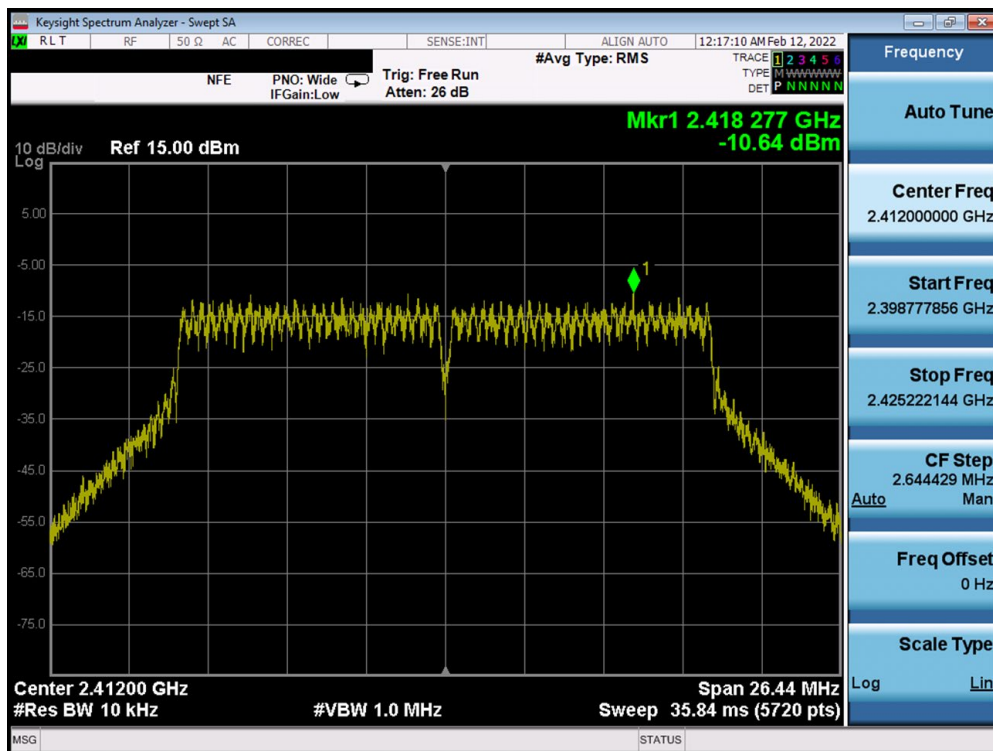


Plot 7-66. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 11)

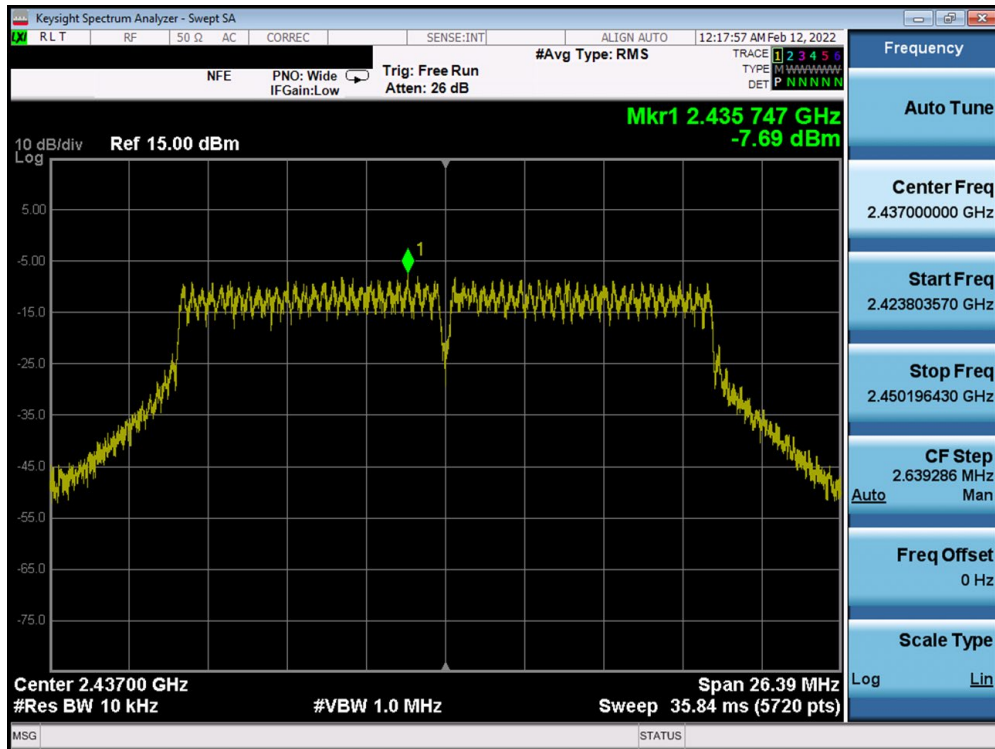


Plot 7-67. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 1)

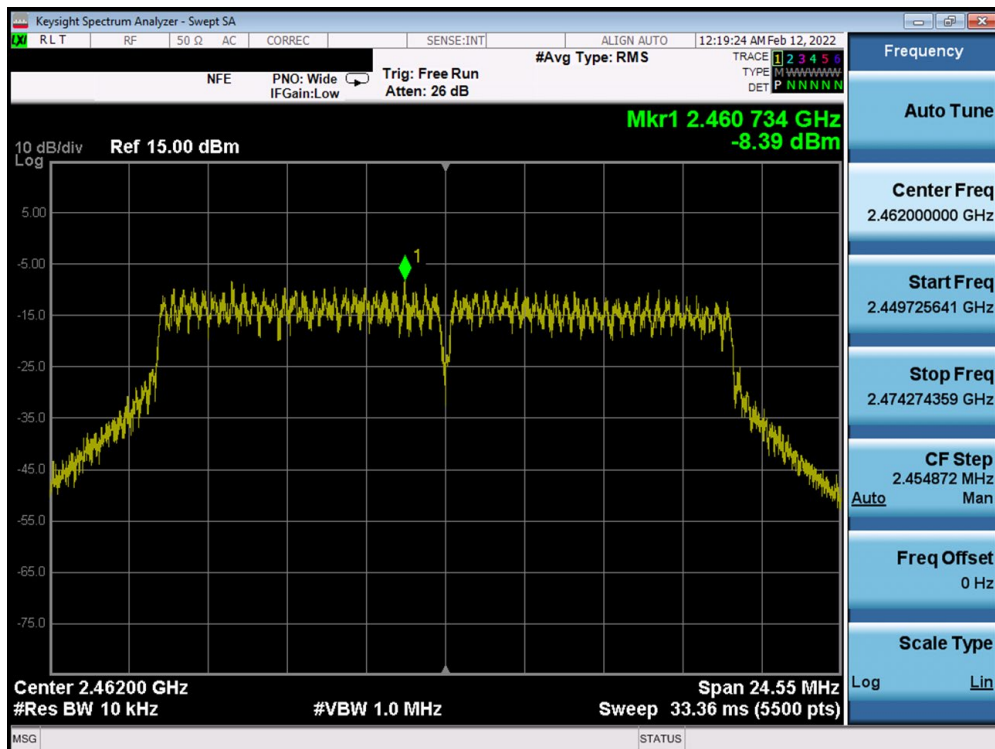
FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 55 of 106



FCC ID: V7MESLCTGA	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 56 of 106

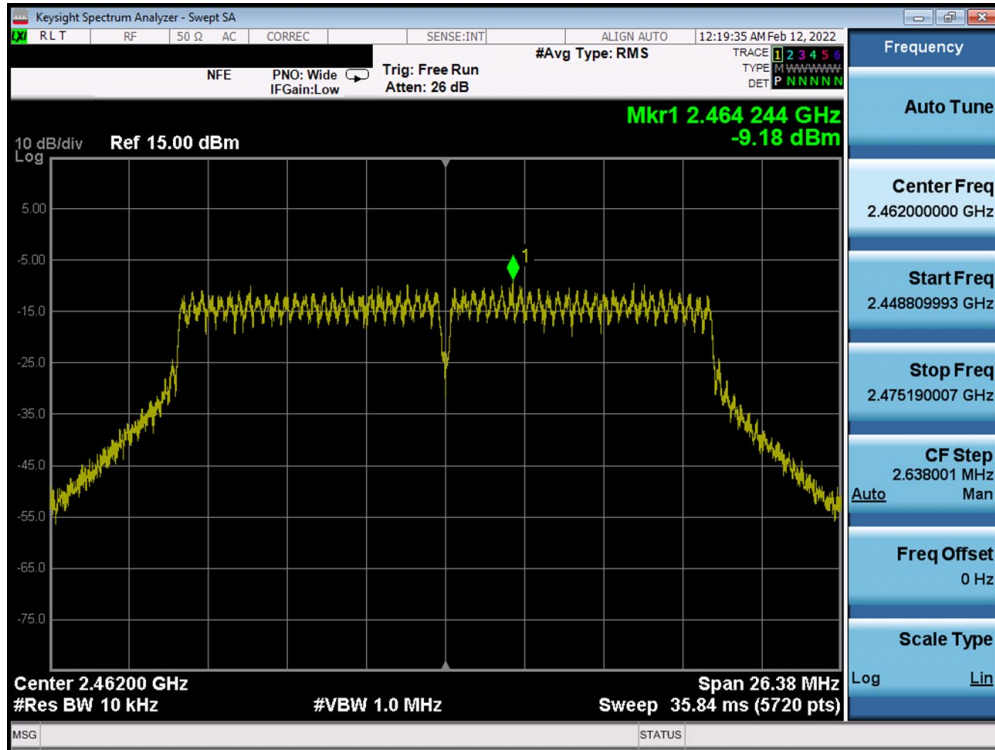


Plot 7-70. Power Spectral Density Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 6)



Plot 7-71. Power Spectral Density Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 57 of 106



Plot 7-72. Power Spectral Density Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 11)

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 D01 v02r01 Section E2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted power spectral density was measured to be -8.98 dBm for Antenna-1 and -10.64 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(-8.98 \text{ dBm} + -10.64 \text{ dBm}) = (0.13 \text{ mW} + 0.09 \text{ mW}) = 0.21 \text{ mW} = -6.72 \text{ dBm}$$

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 58 of 106

7.5 Conducted Emissions at the Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, and 6.5/7.2Mbps for “n” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



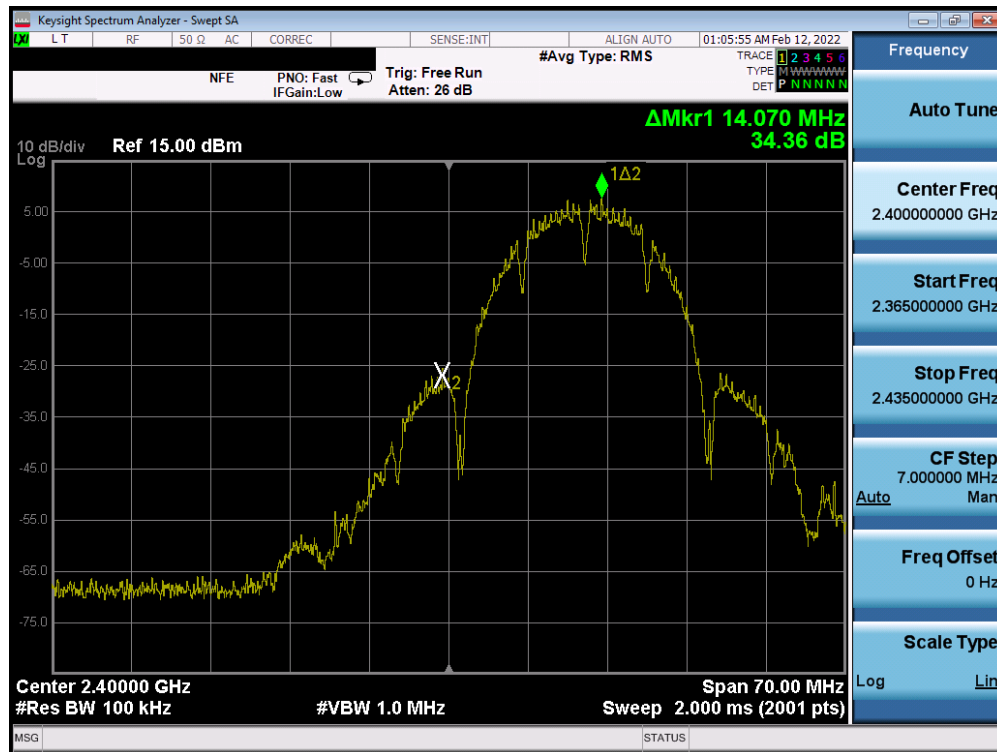
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

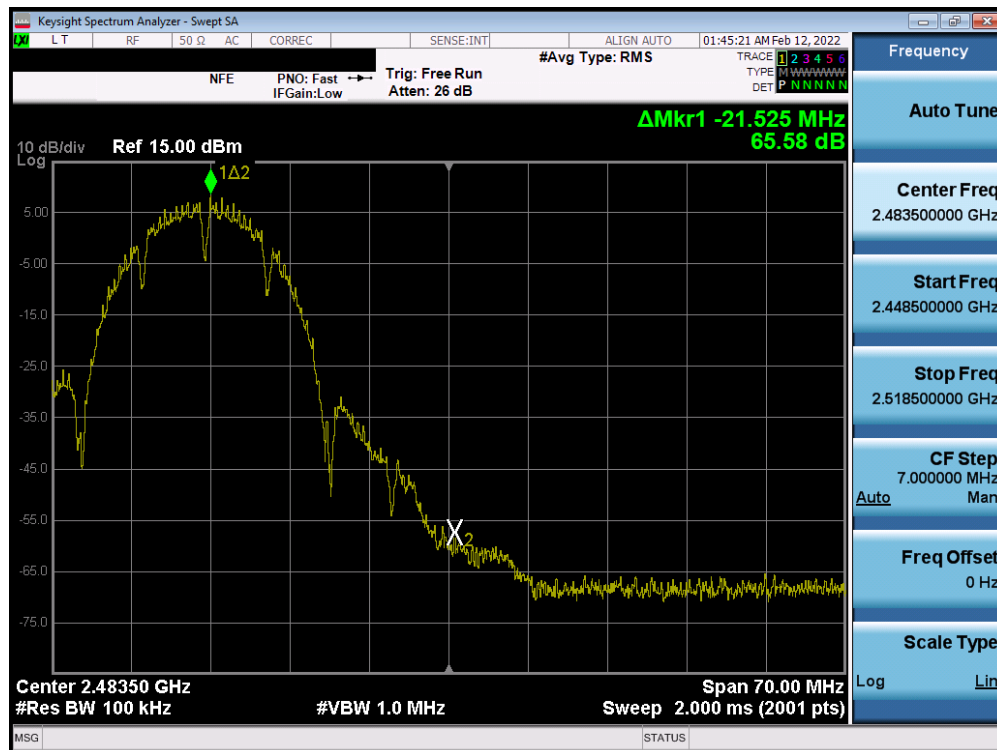
None

FCC ID: V7MESLCTGA		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 59 of 106

SISO Antenna-1 Conducted Emissions at the Band Edge

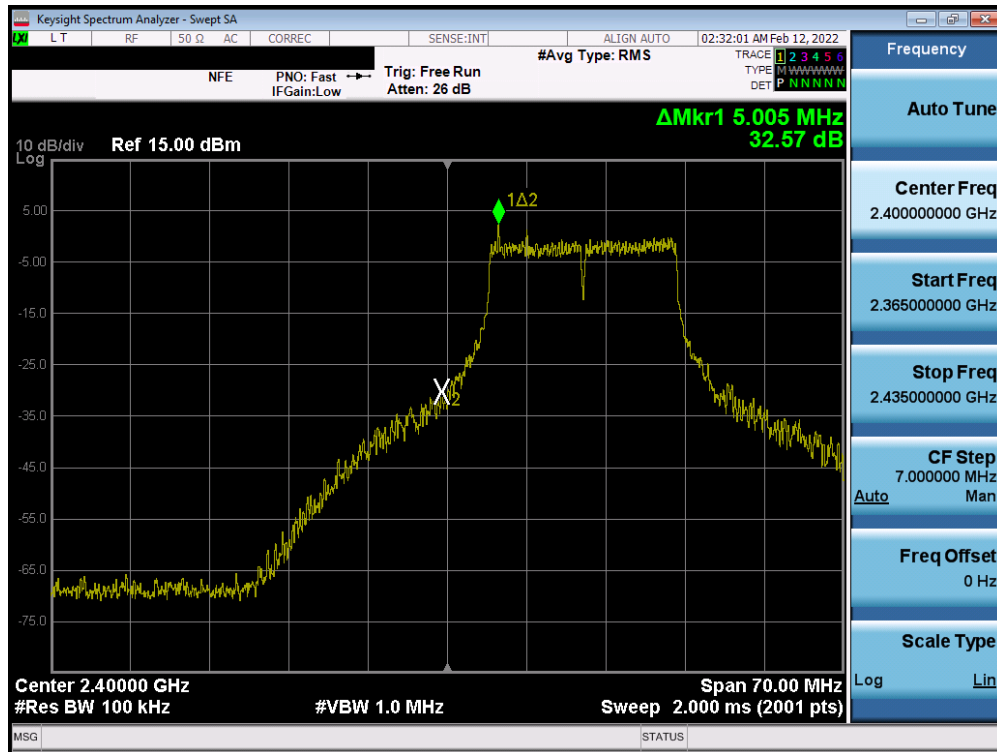


Plot 7-73. Band Edge Plot SISO ANT1 (802.11b – Ch. 1)



Plot 7-74. Band Edge Plot SISO ANT1 (802.11b – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 60 of 106

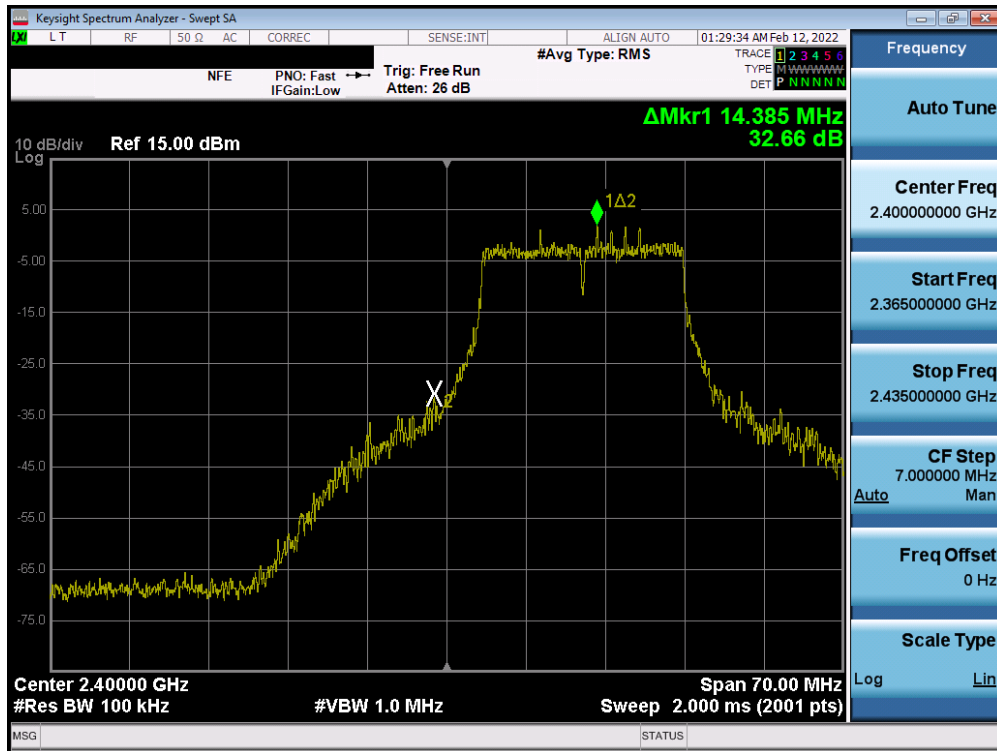


Plot 7-75. Band Edge Plot SISO ANT1 (802.11g- Ch. 1)

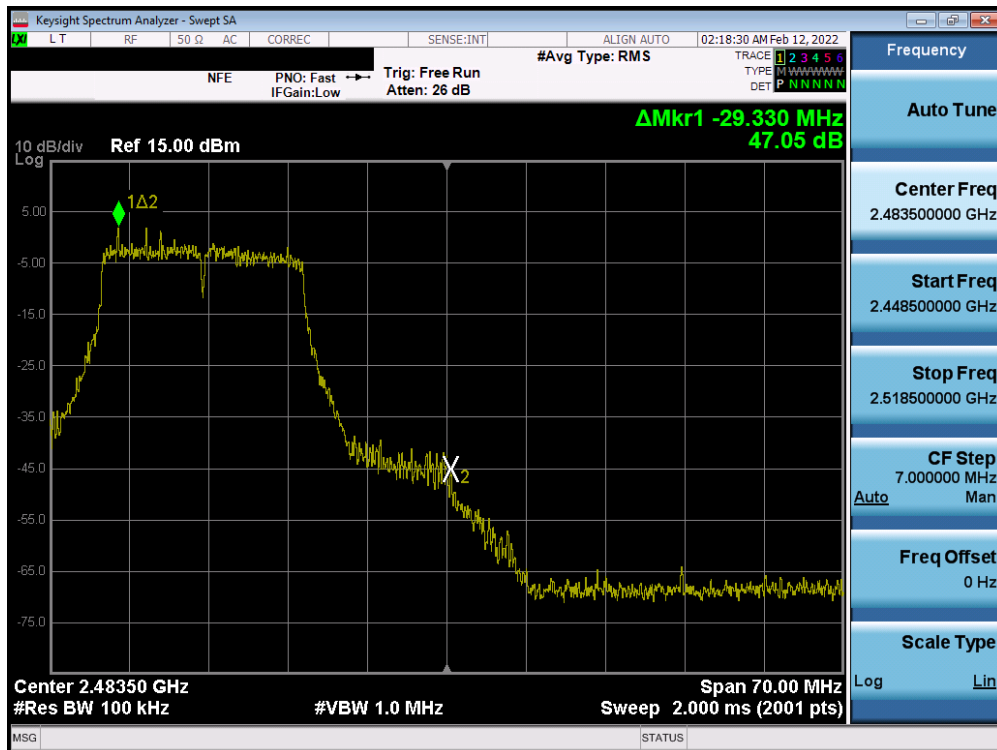


Plot 7-76. Band Edge Plot SISO ANT1 (802.11g - Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 61 of 106



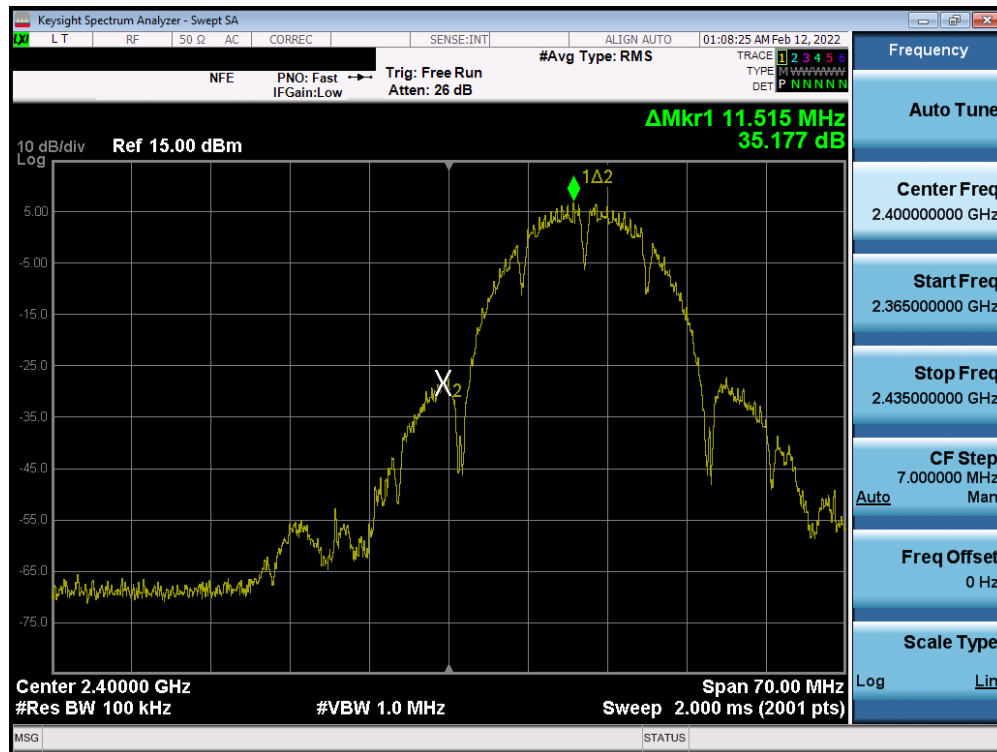
Plot 7-77. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)



Plot 7-78. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)

FCC ID: V7MESLCTGA		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 62 of 106

SISO Antenna-2 Conducted Emissions at the Band Edge

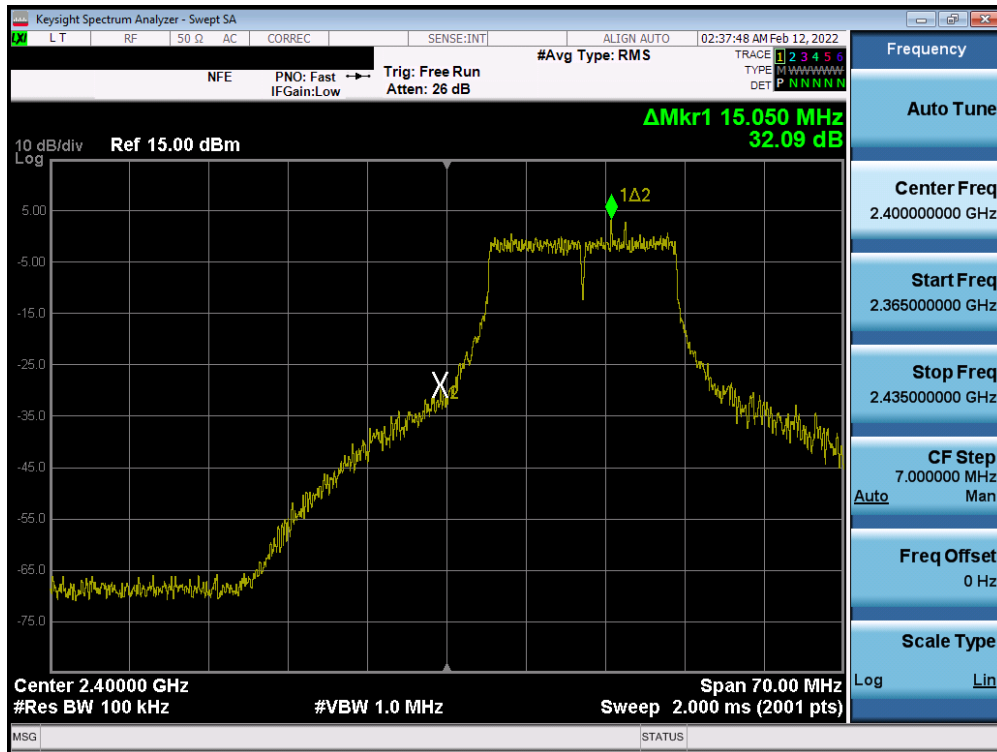


Plot 7-79. Band Edge Plot SISO ANT2 (802.11b – Ch. 1)

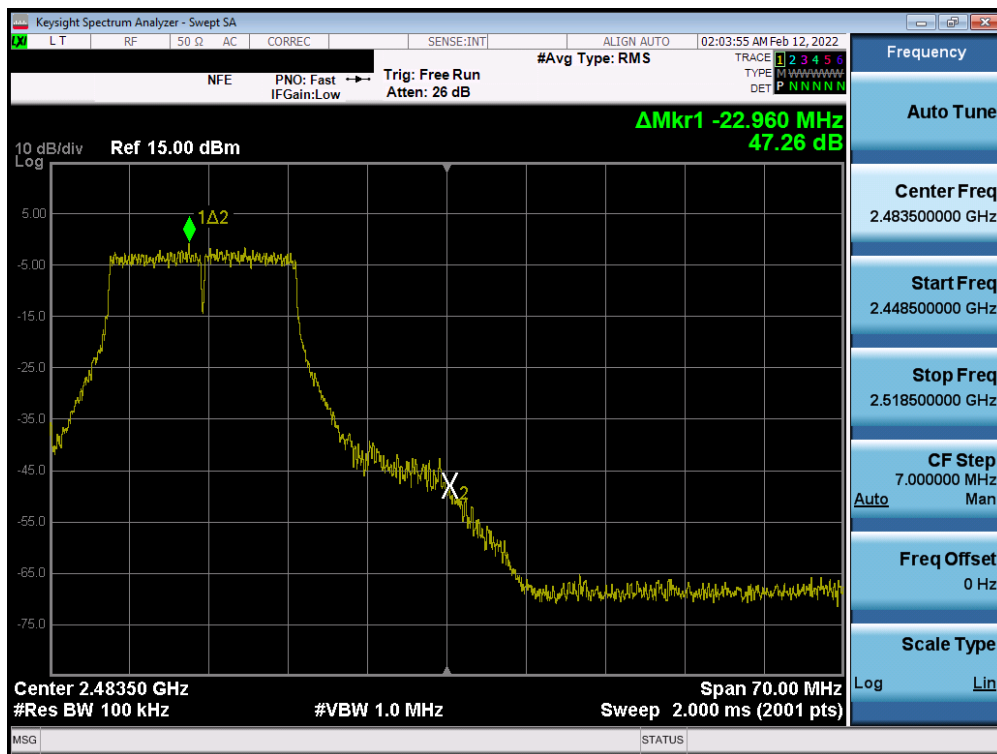


Plot 7-80. Band Edge Plot SISO ANT2 (802.11b – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 63 of 106

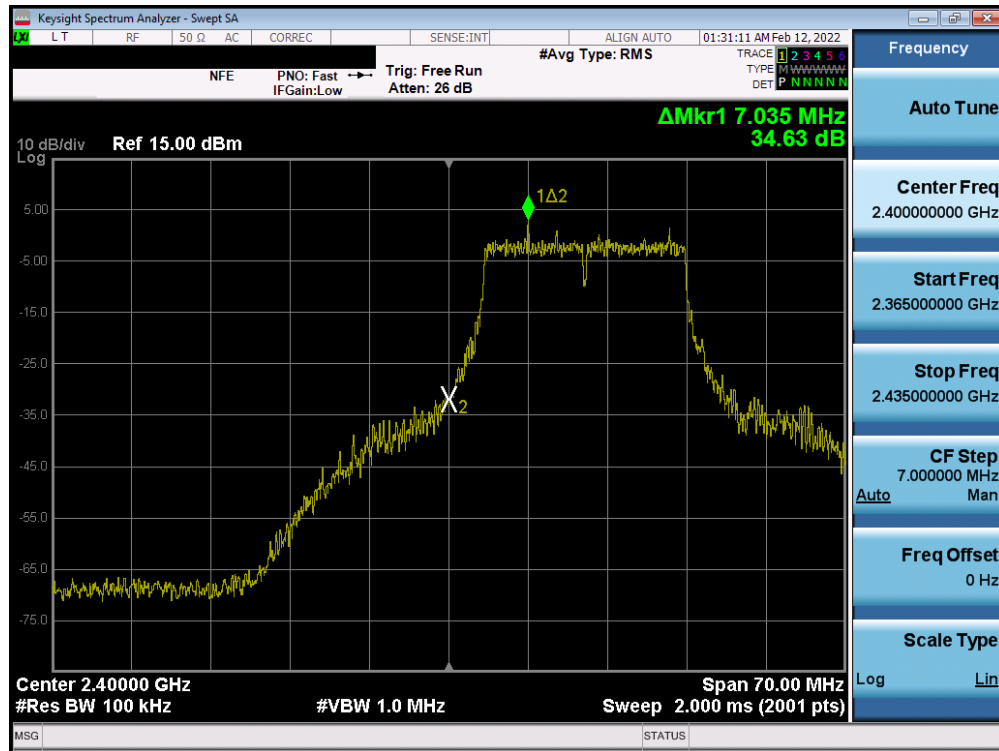


Plot 7-81. Band Edge Plot SISO ANT2 (802.11g– Ch. 1)

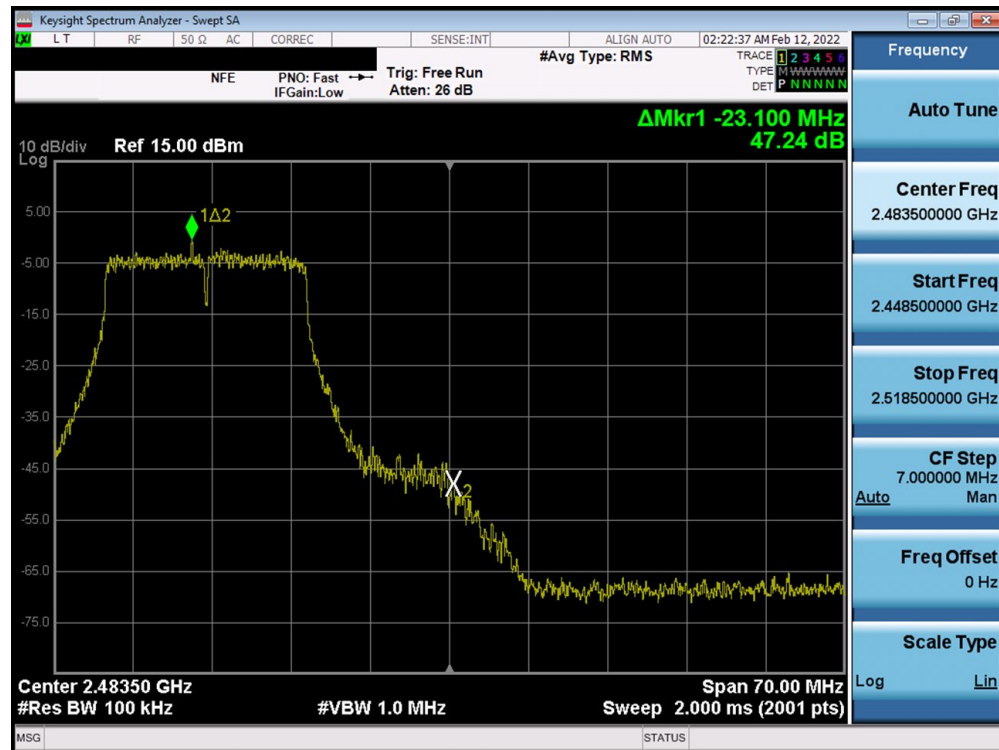


Plot 7-82. Band Edge Plot SISO ANT2 (802.11g – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 64 of 106



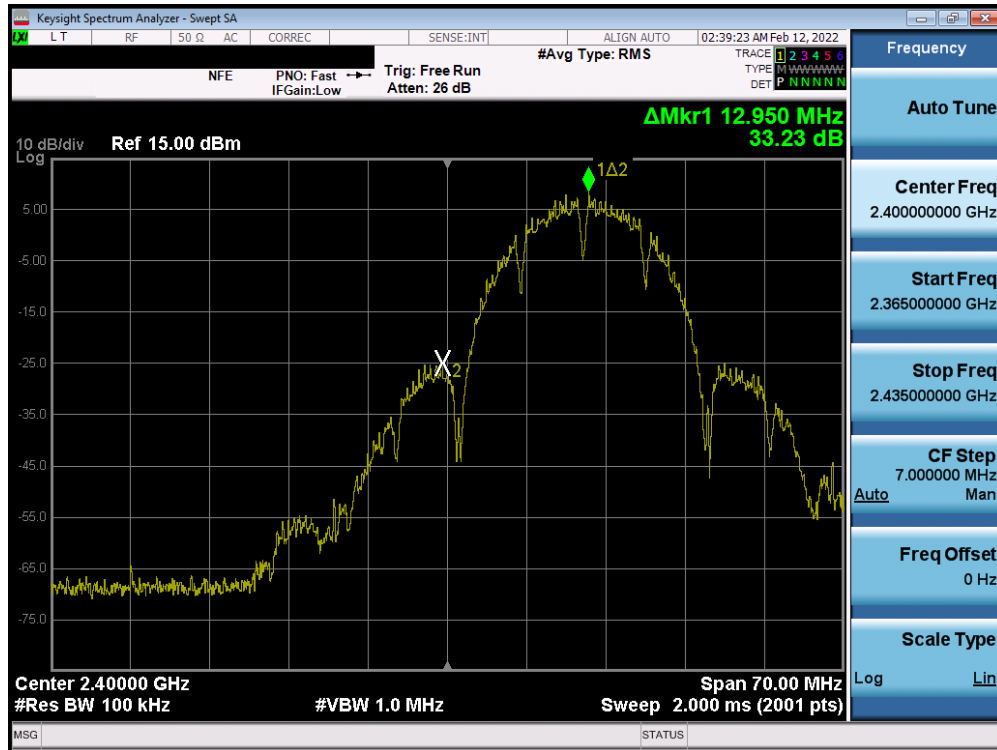
Plot 7-83. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 1)



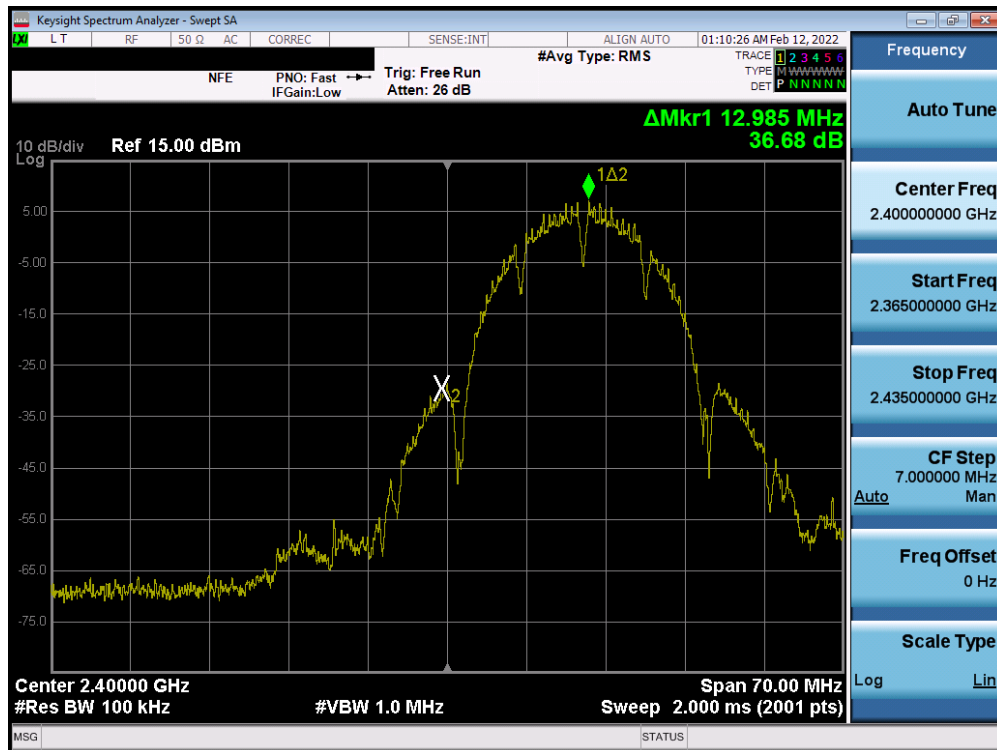
Plot 7-84. Band Edge Plot SISO ANT2 (802.11n (2.4GHz) – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 65 of 106

MIMO Conducted Emissions at the Band Edge

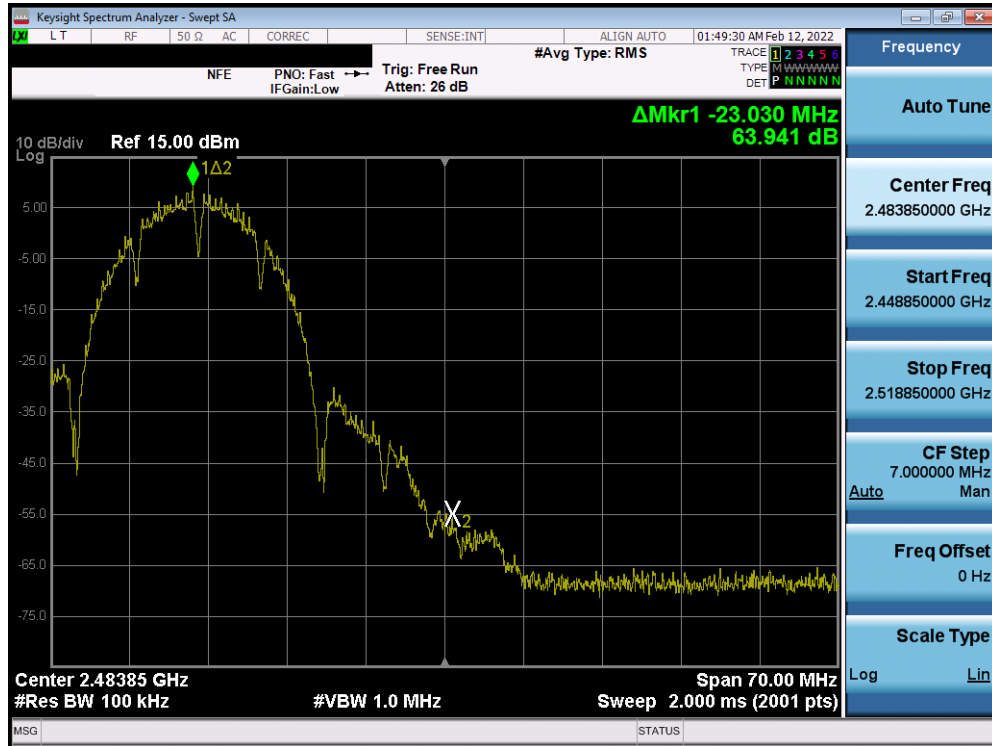


Plot 7-85. Band Edge Plot MIMO ANT1 (802.11b – Ch. 1)

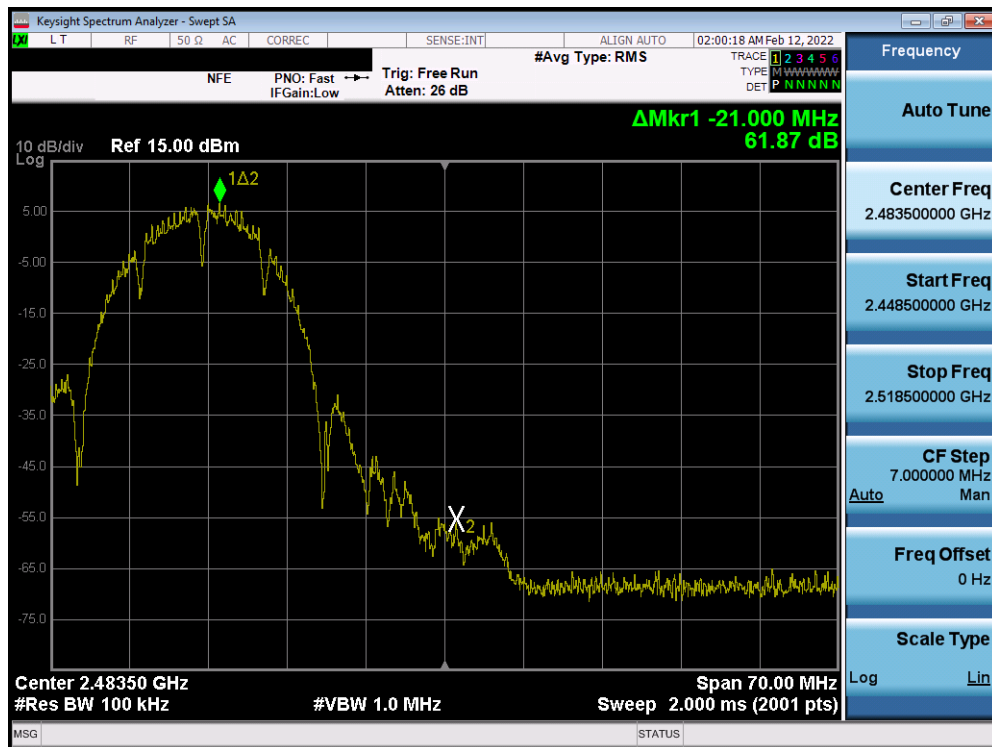


Plot 7-86. Band Edge Plot MIMO ANT2 (802.11b – Ch. 1)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 66 of 106

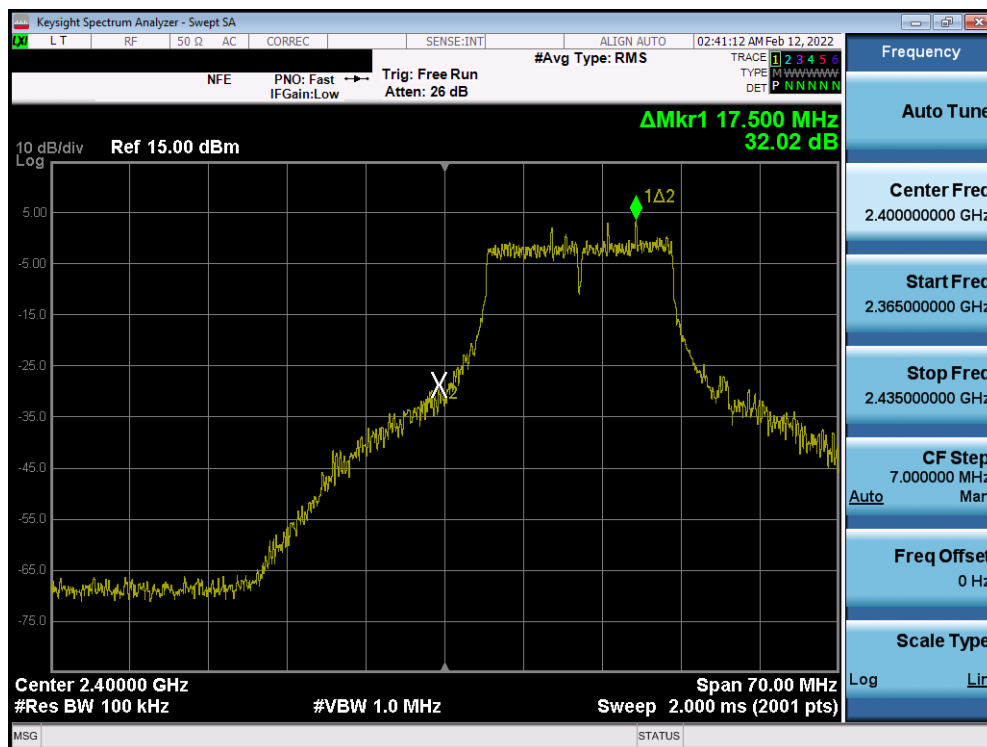


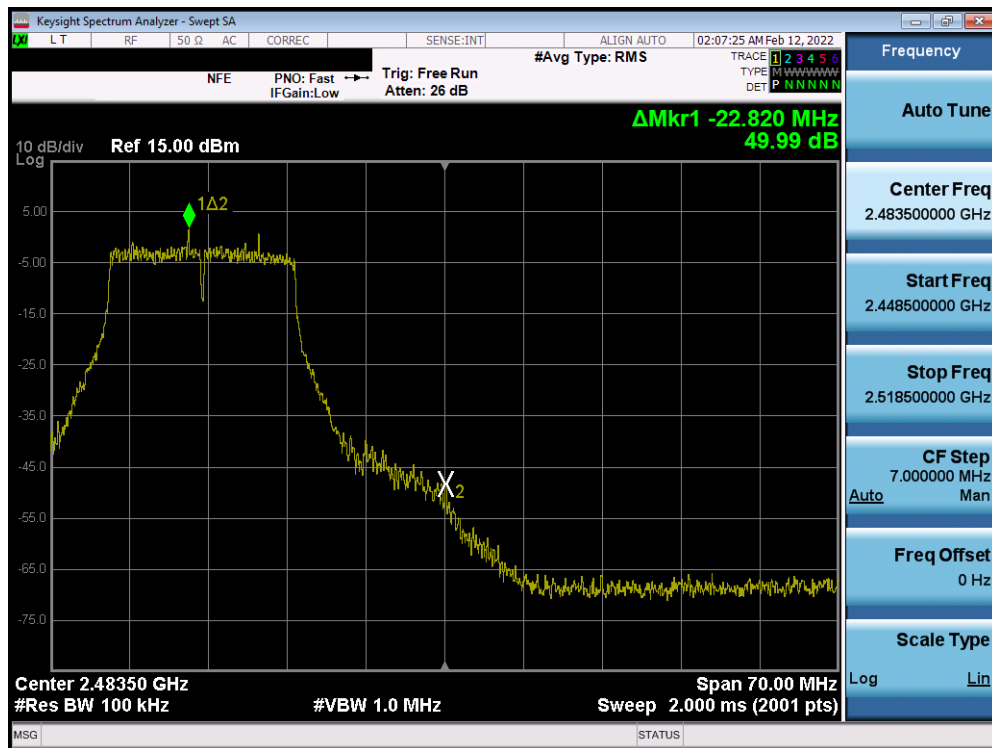
Plot 7-87. Band Edge Plot MIMO ANT1 (802.11b – Ch. 11)



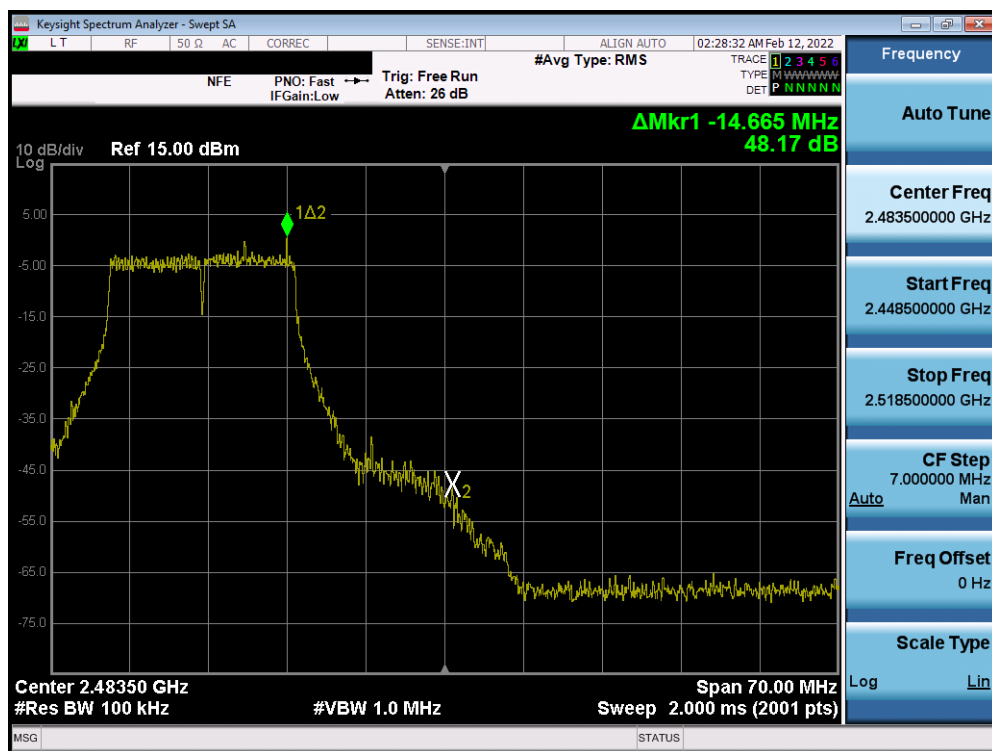
Plot 7-88. Band Edge Plot MIMO ANT2 (802.11b – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-91. Band Edge Plot MIMO ANT1 (802.11g – Ch. 11)



Plot 7-92. Band Edge Plot MIMO ANT2 (802.11g – Ch. 11)

FCC ID: V7MESLCTGA	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 69 of 106

7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “n” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.5
ANSI C63.10-2013 – Section 14.3.3
KDB 662911 D01 v02r01 – Section E)3)b)

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-5. Test Instrument & Measurement Setup

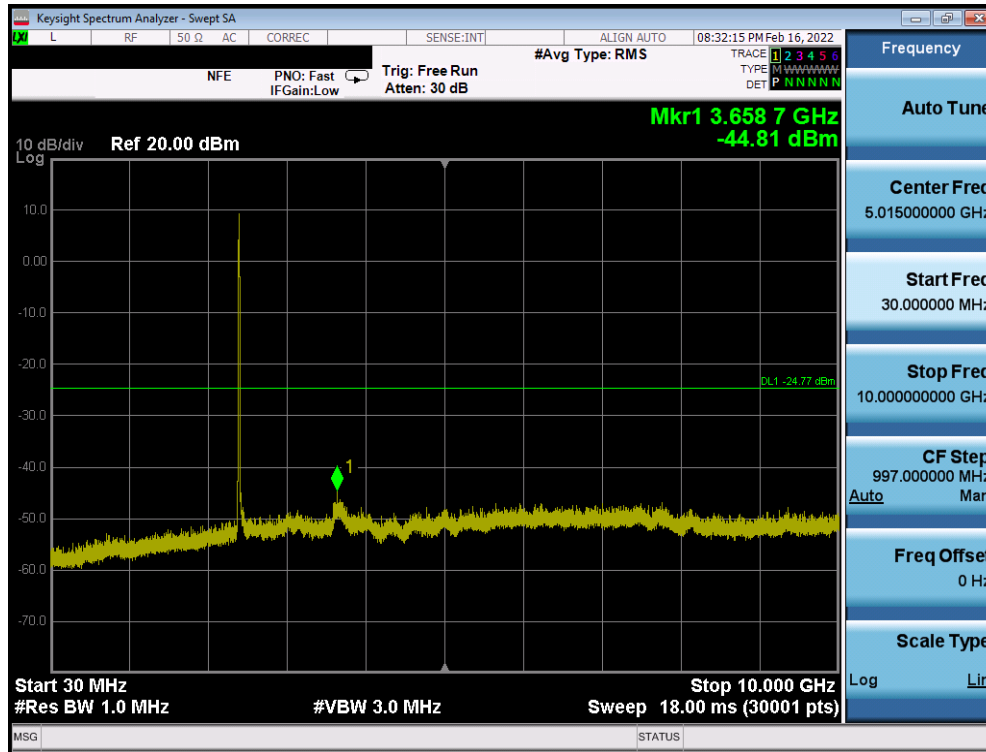
FCC ID: V7MESLCTGA		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2202090014-03.V7M	Test Dates: 02/11/2022 ~ 02/28/2022	EUT Type: LTE Indoor CPE	Page 72 of 106

Test Notes

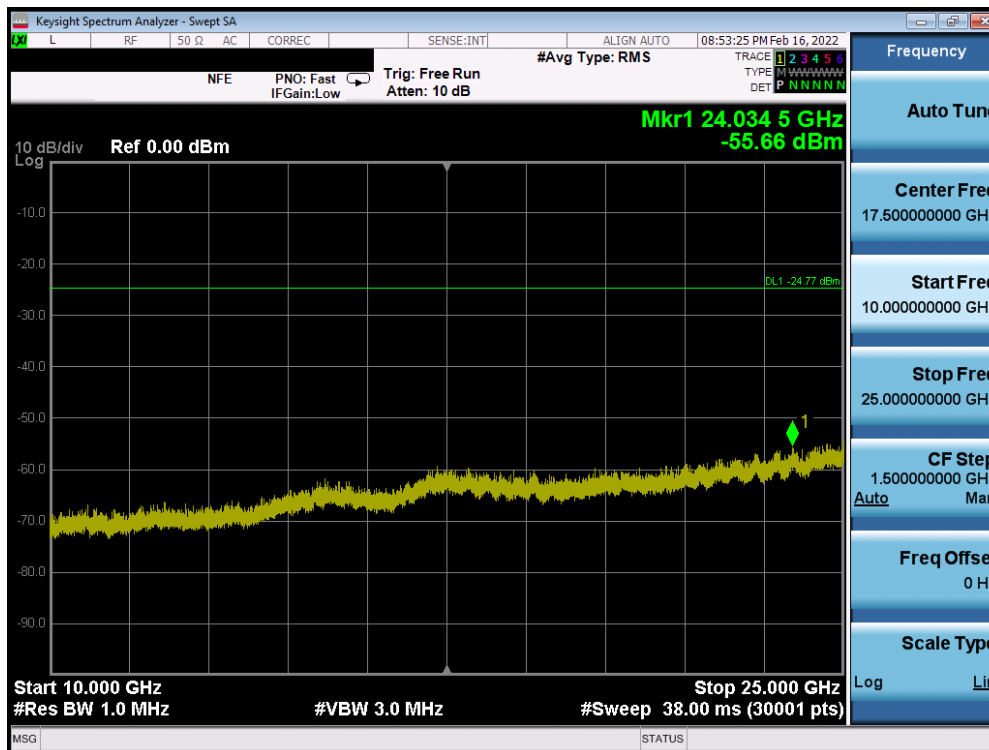
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.

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SISO Antenna-1 Conducted Spurious Emission

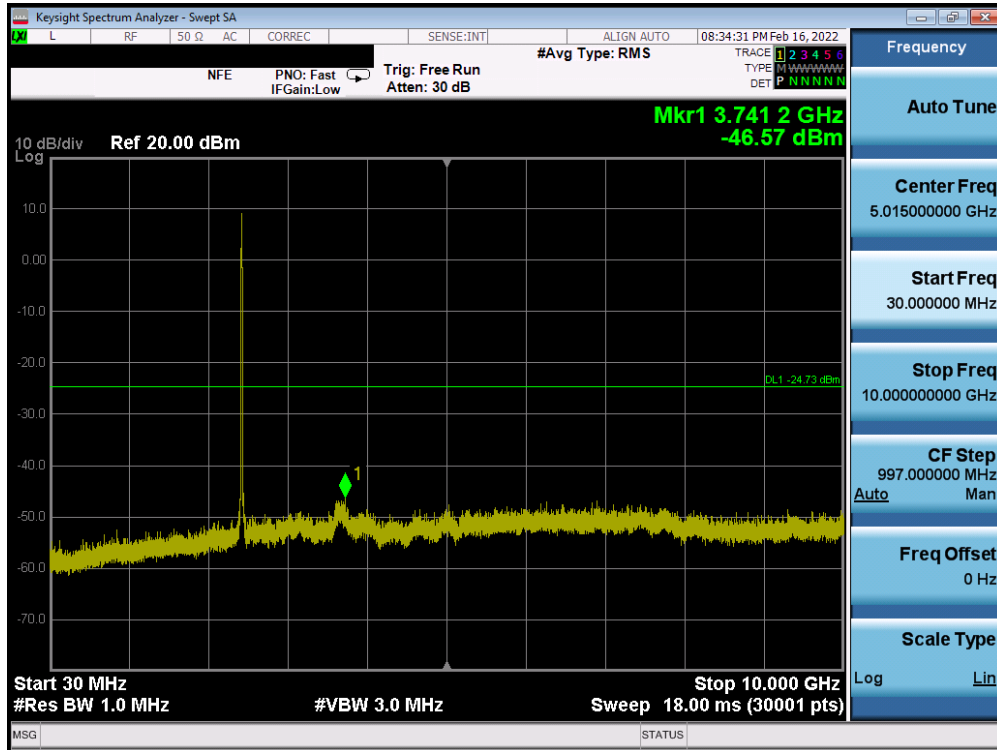


Plot 7-97. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 1)

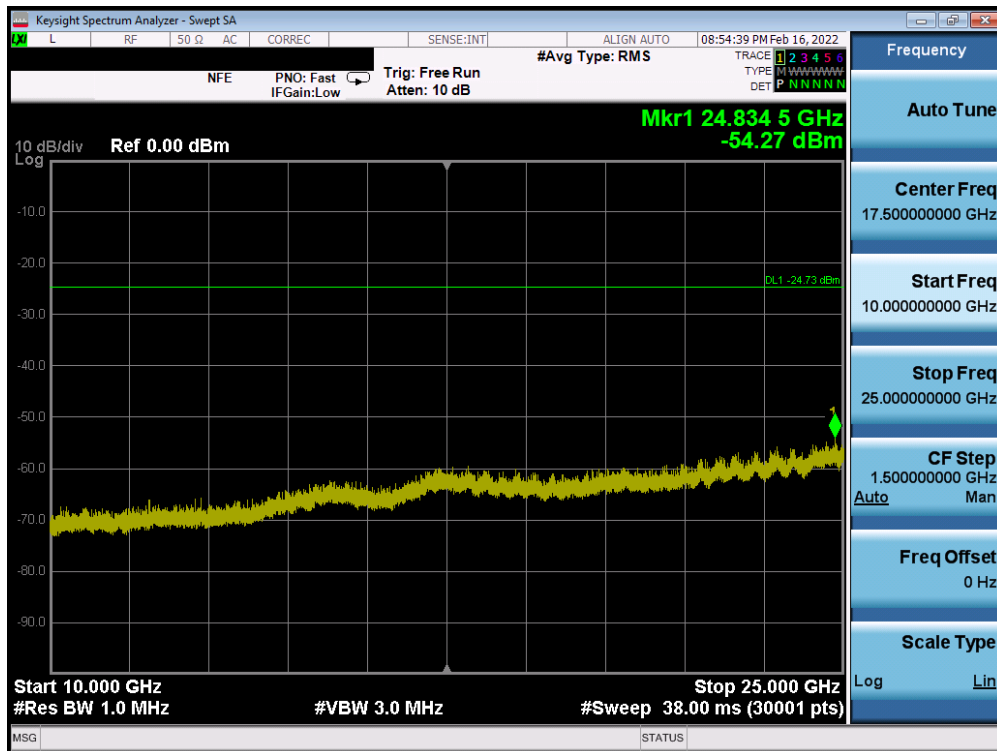


Plot 7-98. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 1)

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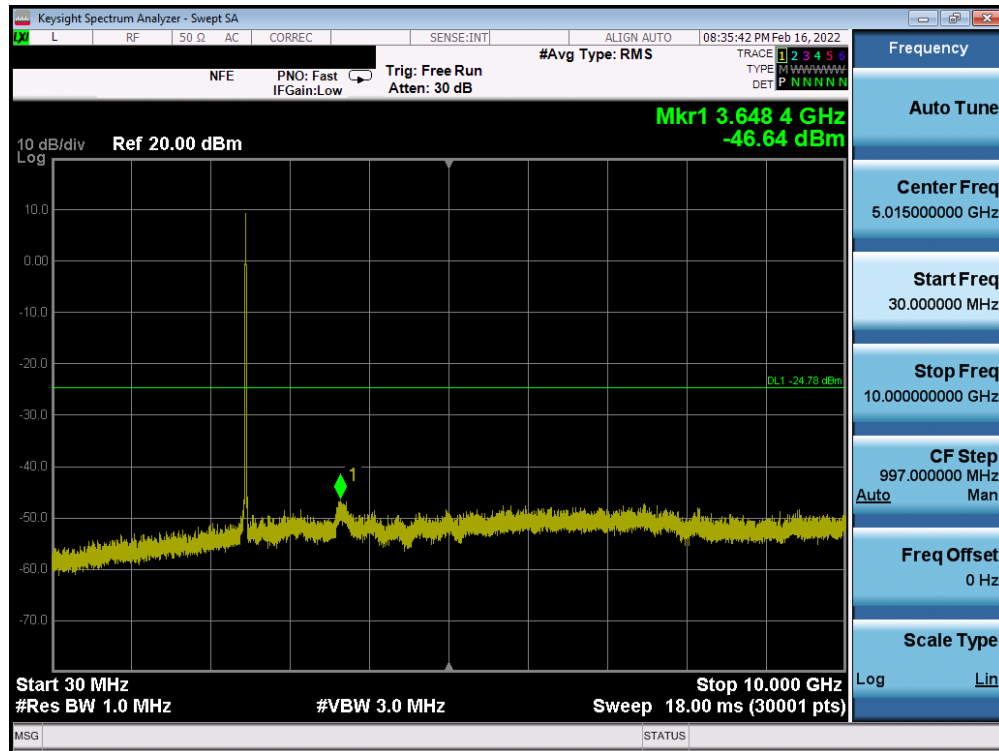


Plot 7-99. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 6)

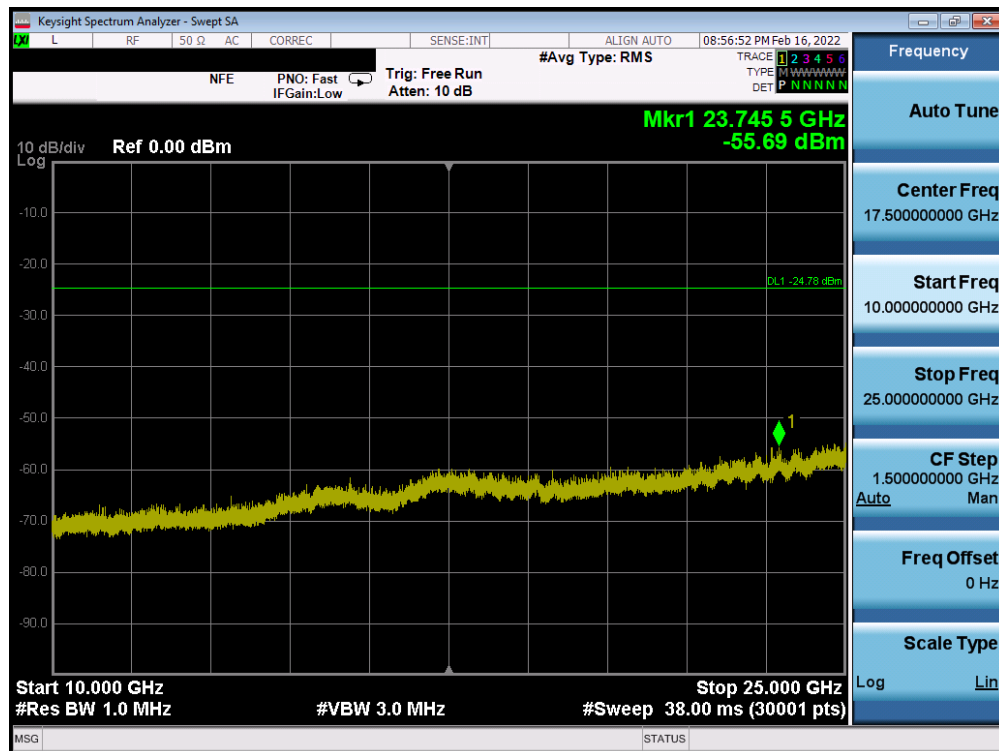


Plot 7-100. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 6)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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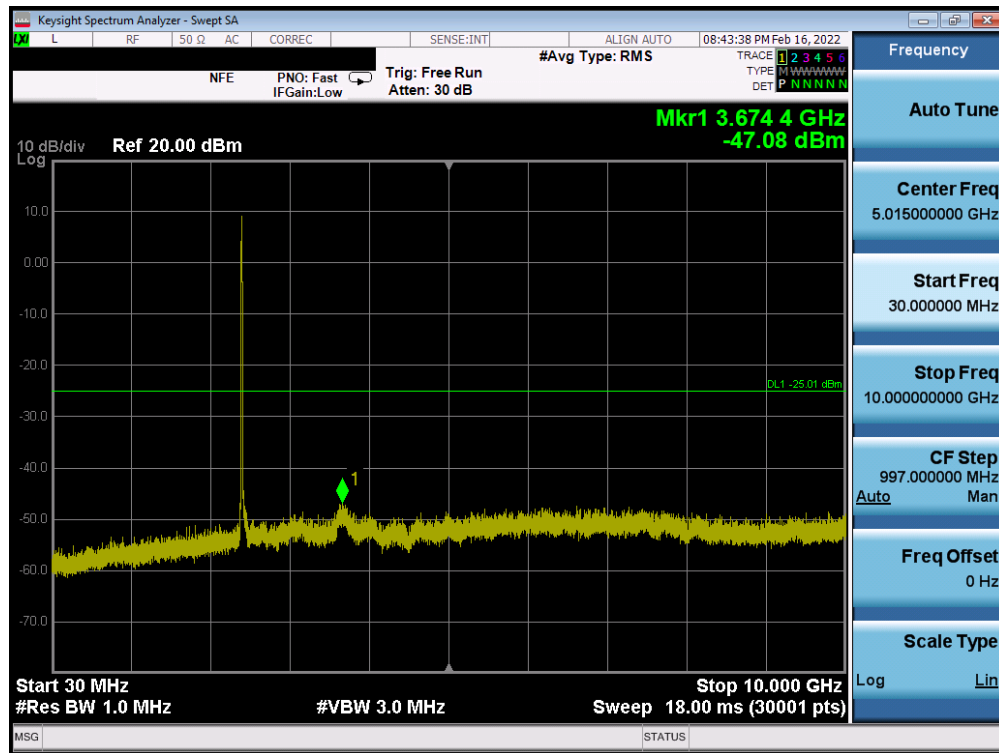
Plot 7-101. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 11)



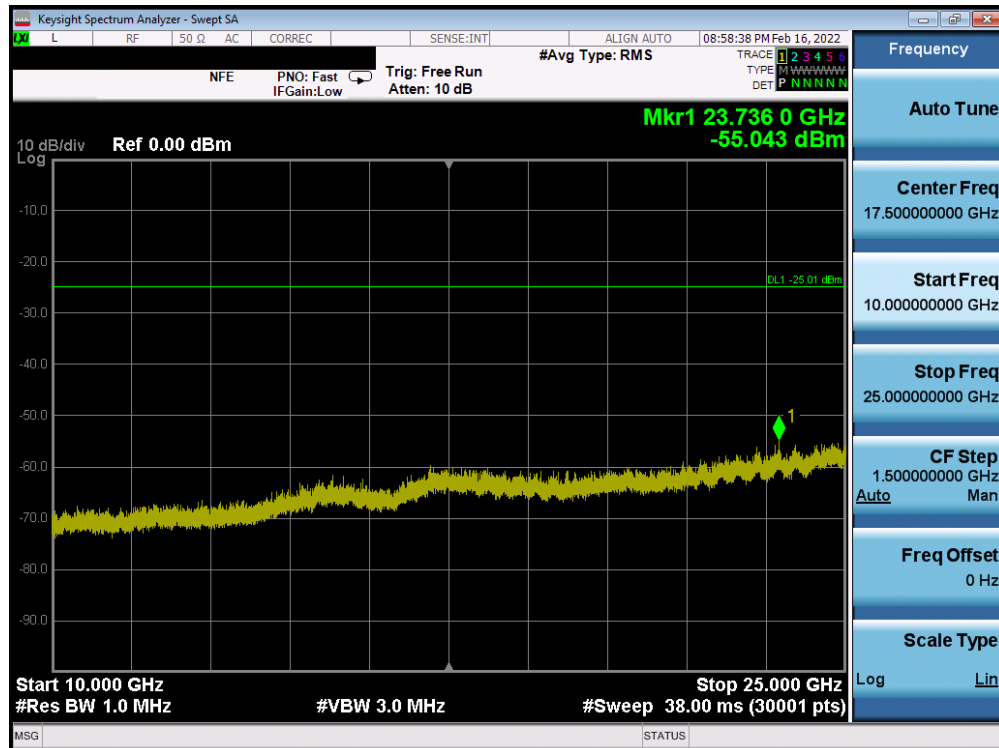
Plot 7-102. Conducted Spurious Plot SISO ANT1 (802.11b – Ch. 11)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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SISO Antenna-2 Conducted Spurious Emissions

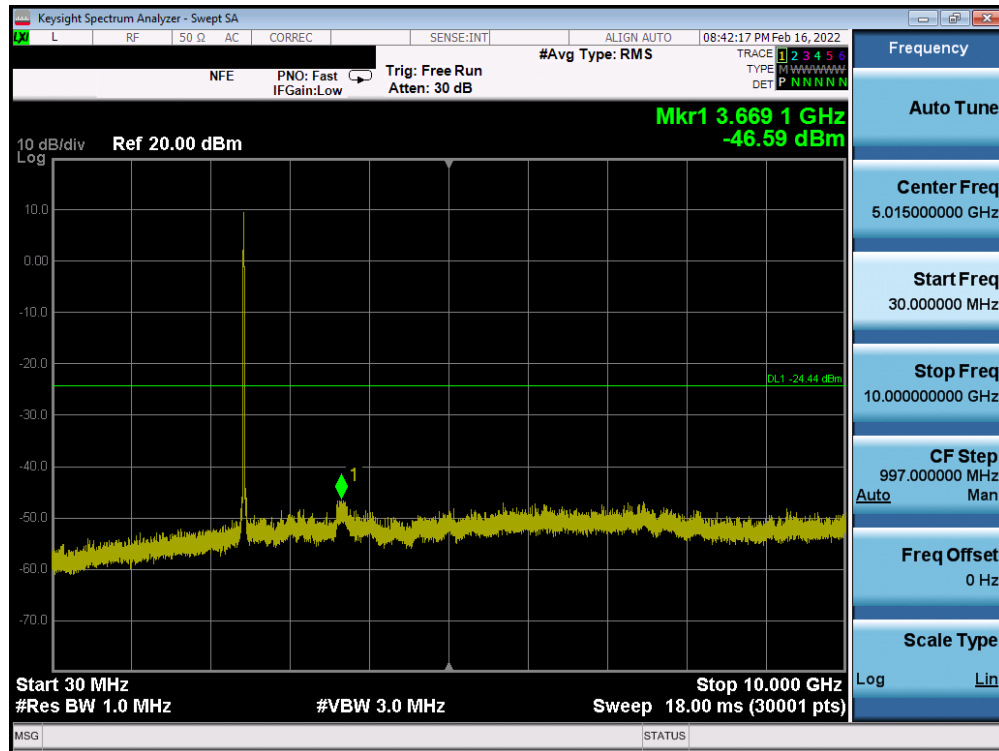


Plot 7-103. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 1)

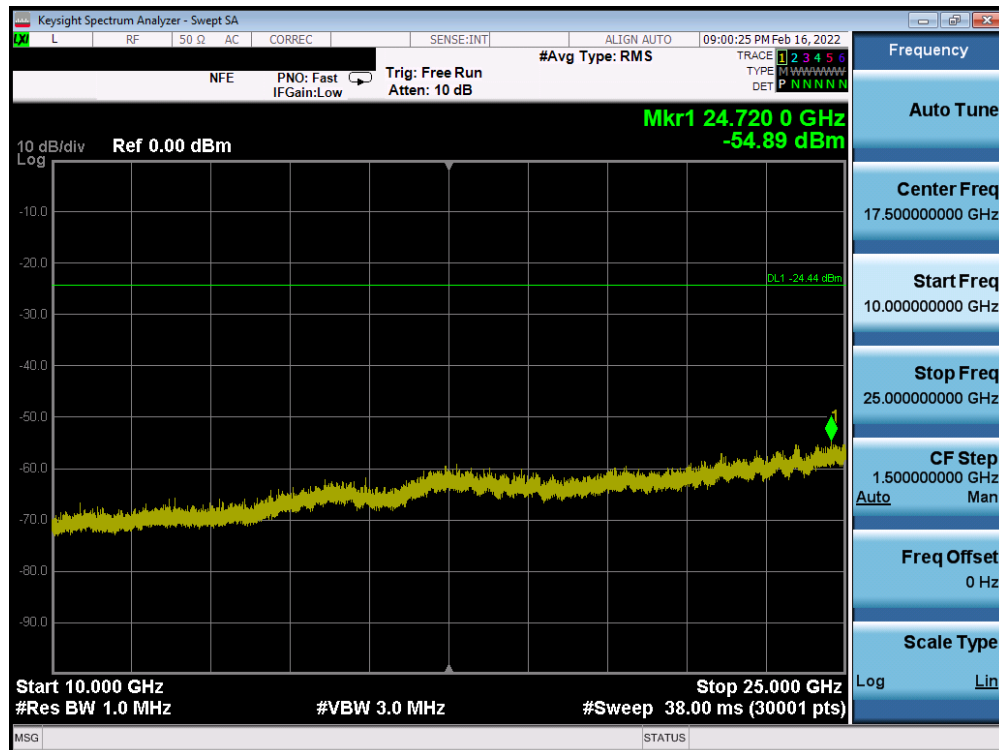


Plot 7-104. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 1)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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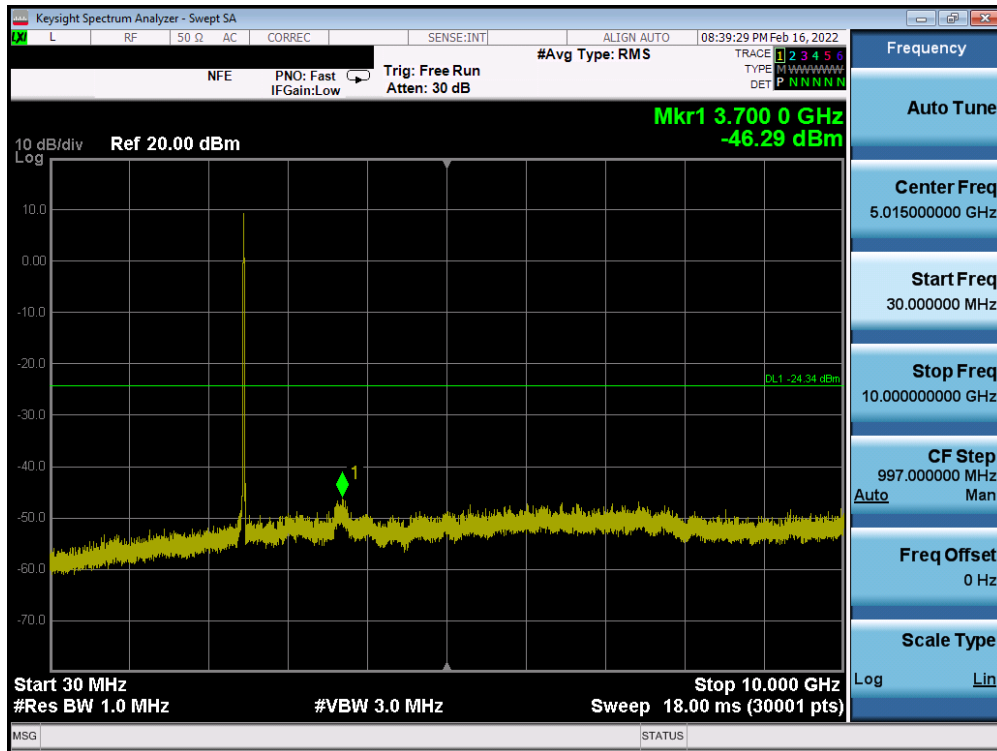


Plot 7-105. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 6)

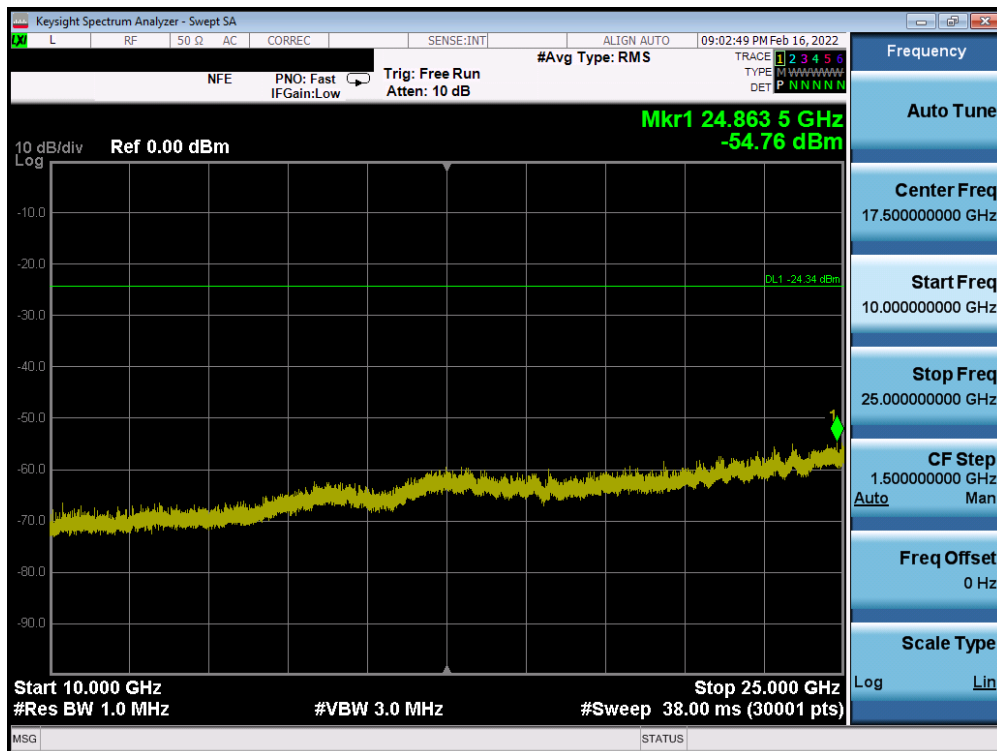


Plot 7-106. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 6)

FCC ID: V7MESLCTGA	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-107. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 11)



Plot 7-108. Conducted Spurious Plot SISO ANT2 (802.11b – Ch. 11)

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7.7 Radiated Spurious Emission Measurements – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-13 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-13. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3
KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

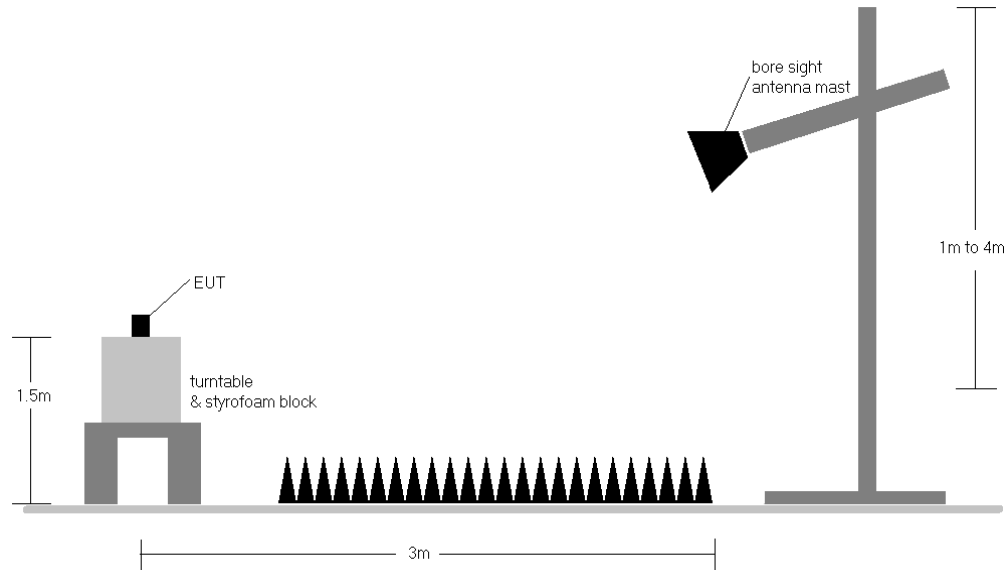


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-13.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The unit was tested while powered by a DC power source.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.

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