



5250~5350MHz

Low Channel



High Channel





5470~5725MHz

Low Channel



Mid Channel





High Channel





IEEE802.11ax HE80 mode

5150~5250MHz



5250~5350MHz





5470~5725MHz

Low Channel



High Channel





IEEE802.11ax HE160 mode

5150~5350MHz



5470~5725MHz





IEEE802.11be EHT20 mode

5150~5250MHz

Low Channel



Mid Channel





High Channel



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

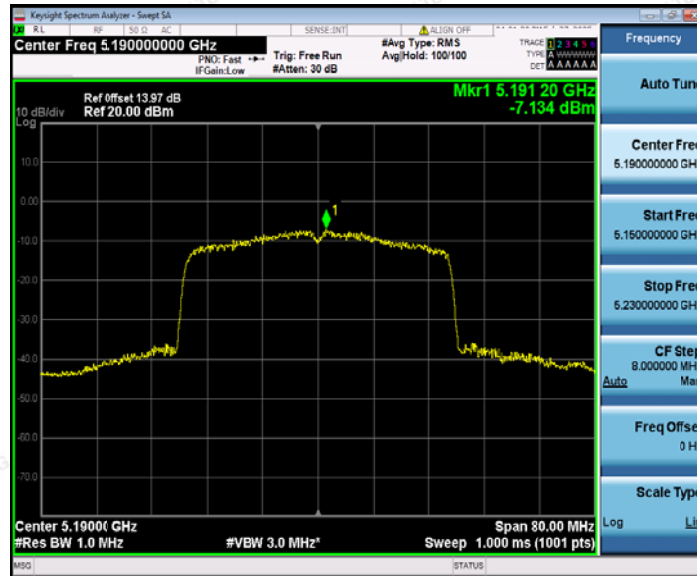
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



IEEE802.11be EHT40 mode

5150~5250MHz

Low Channel



High Channel





5150~5250MHz



TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



6.5 Duty Cycle

LIMIT

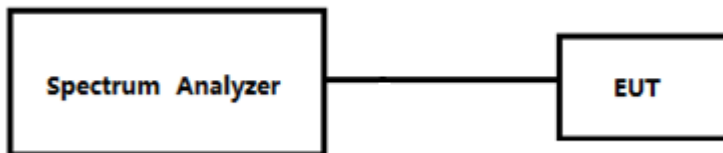
All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x , and maximum-power transmission duration, T , are required for each tested mode of operation.

a) T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

b) Duty cycle (x), as used in this document, refers to the fraction of time over which the transmitter is on and is transmitting at its maximum power control level.

c) The term “maximum power control level” is intended to distinguish between operating power levels of the EUT and differences in power levels of individual symbols that occur with some modulation types such as quadrature amplitude modulation (QAM). During testing, the EUT is not required to transmit continuously its highest possible *symbol* power level. Rather, it shall transmit all of the symbols and shall do so at the highest power control level (i.e., highest operating power level) of the EUT.

TESTCONFIGURATION



TEST METHOD

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

a) A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on and off times of the transmitted signal.

789033 D02 General UNII Test Procedures New Rules v02r01 Page 3 .

b) The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST RESULTS

PASS

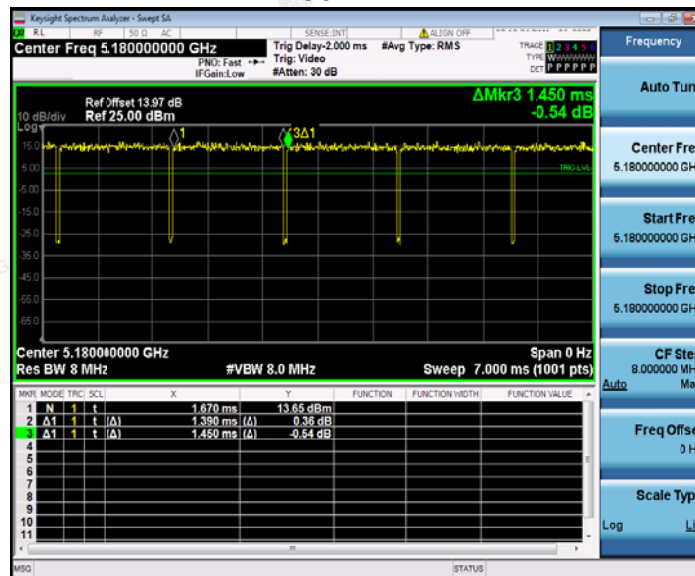


Antenna 1:

Mode Test Duty Cycle: 5150-5250MHz

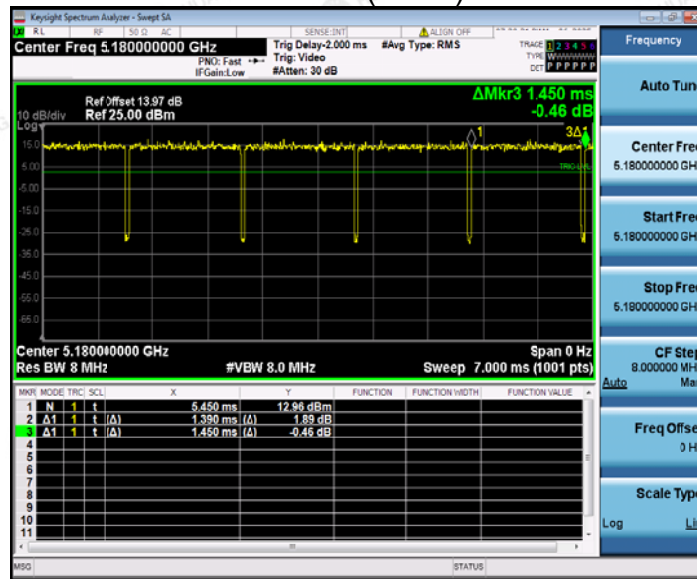
Mode	Duty Cycle
802.11a	0.96
802.11n(HT20)	0.96
802.11n(HT40)	0.96
802.11ac(HT20)	0.96
802.11ac(HT40)	0.96
802.11ac(HT80)	0.96
802.11ax(HE20)	0.96
802.11ax(HE40)	0.96
802.11ax(HE80)	0.97
802.11be(EHT20)	0.96
802.11be(EHT40)	0.97
802.11be(EHT80)	0.96

802.11a

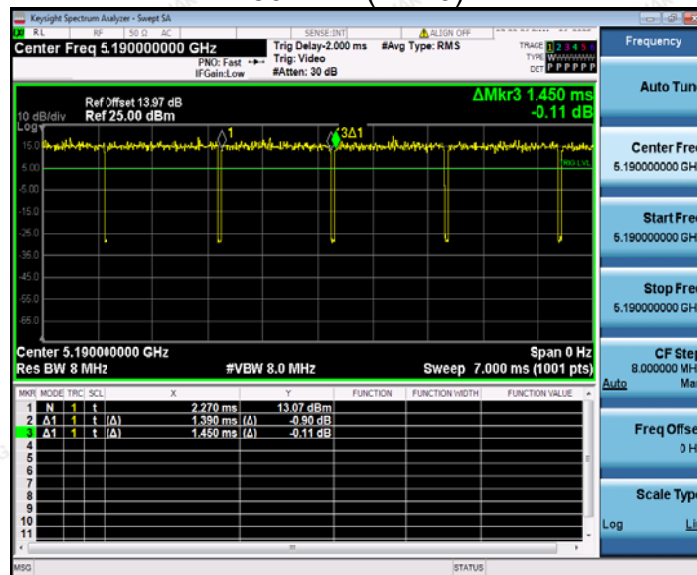




802.11n(HT20)

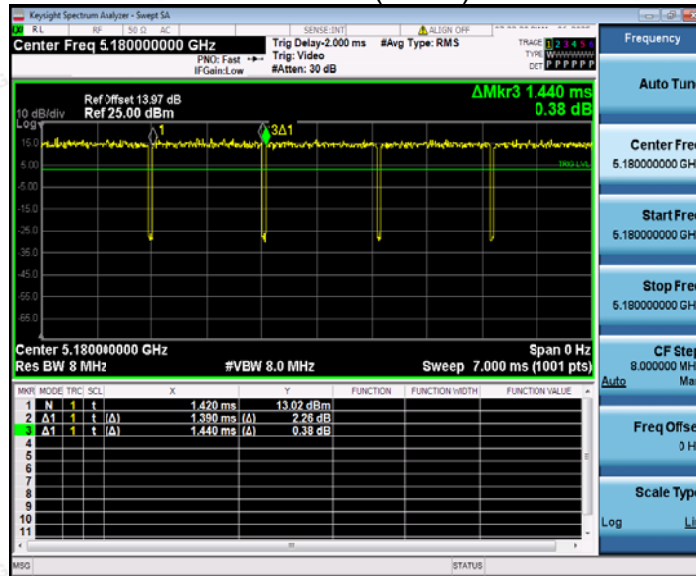


802.11n(HT40)

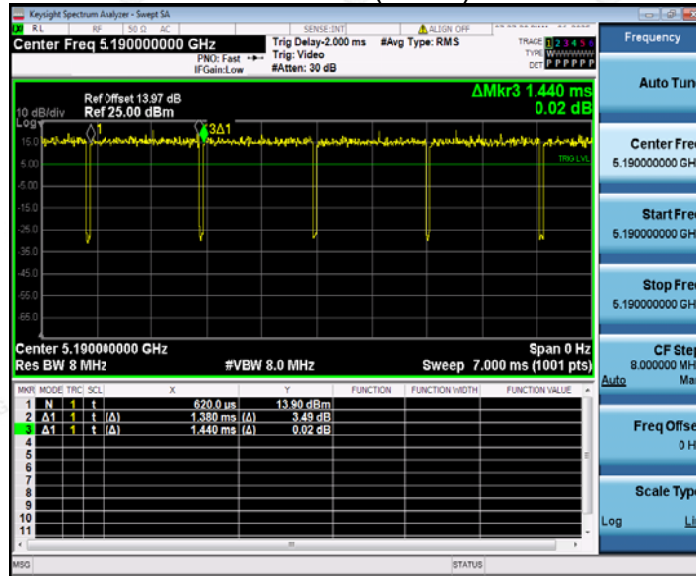




802.11ac(HT20)

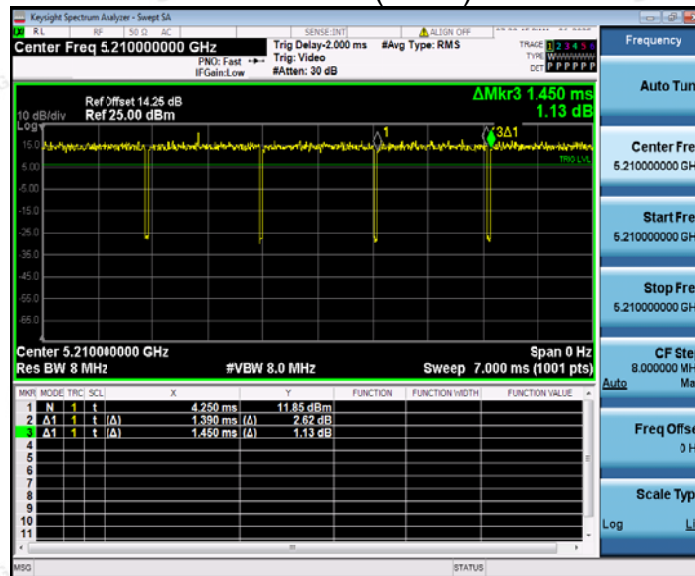


802.11ac(HT40)

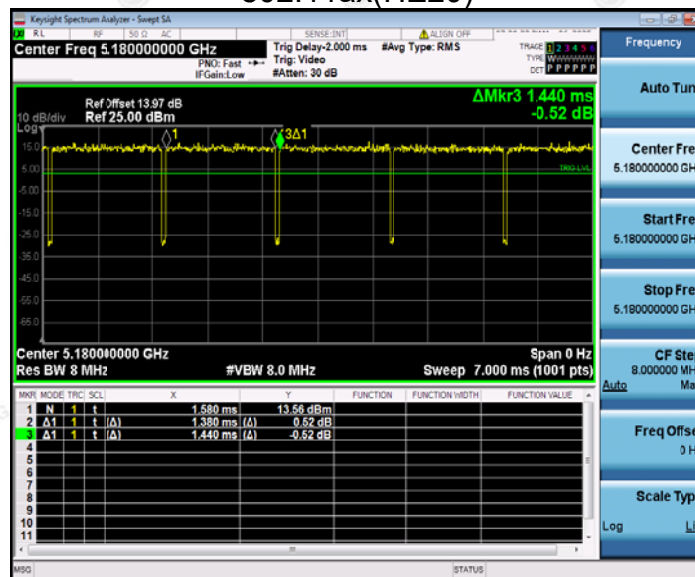




802.11ac(HT80)

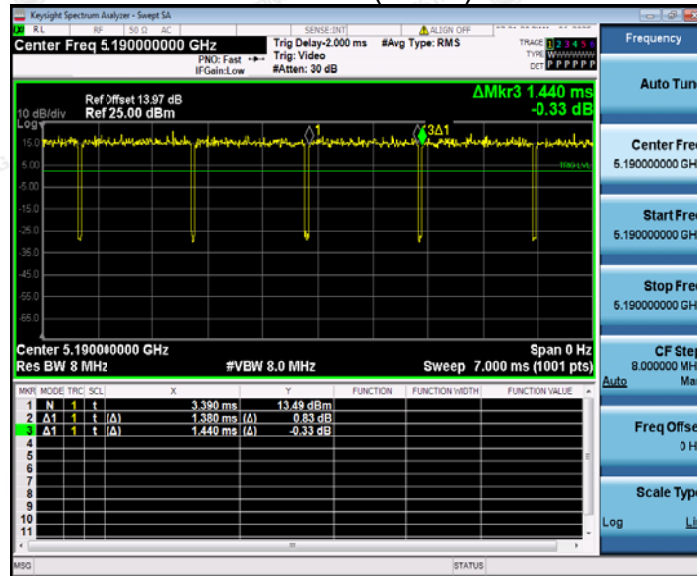


802.11ax(HE20)

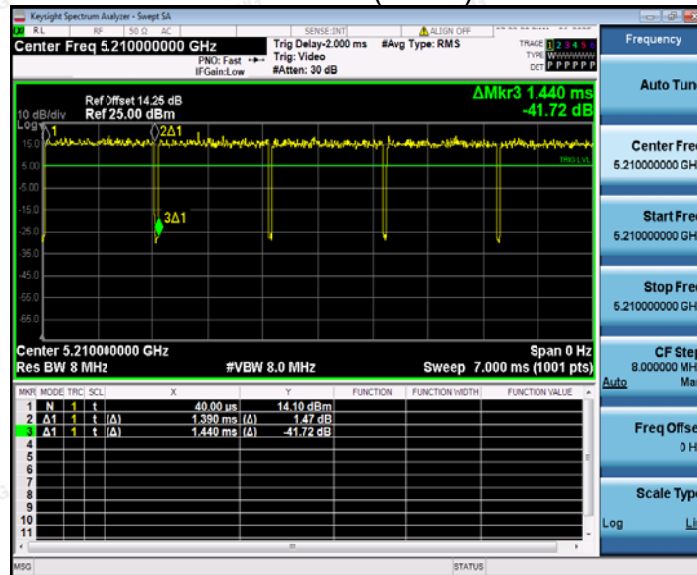




802.11ax(HE40)

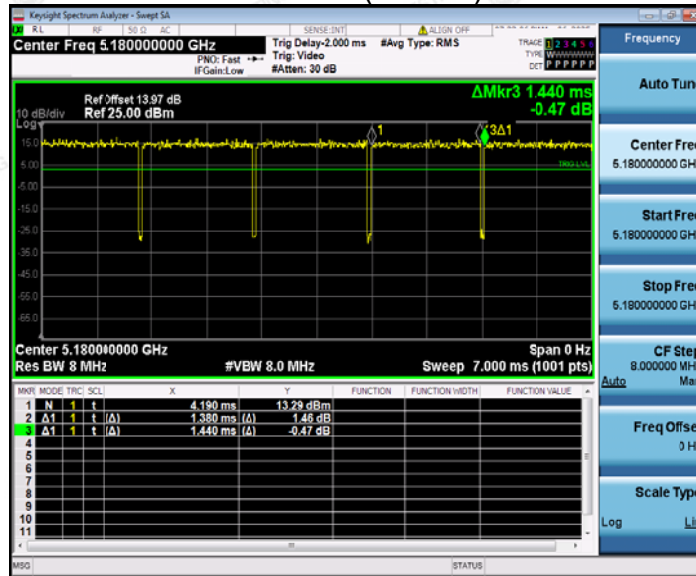


802.11ax(HE80)

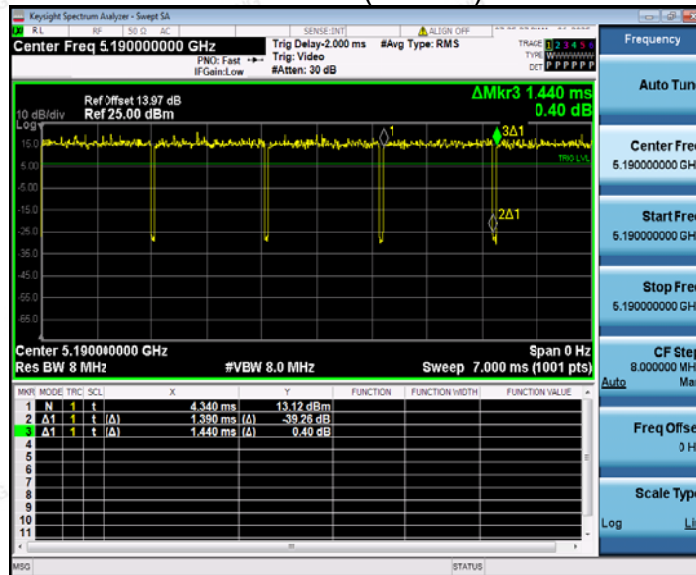




802.11be(EHT20)

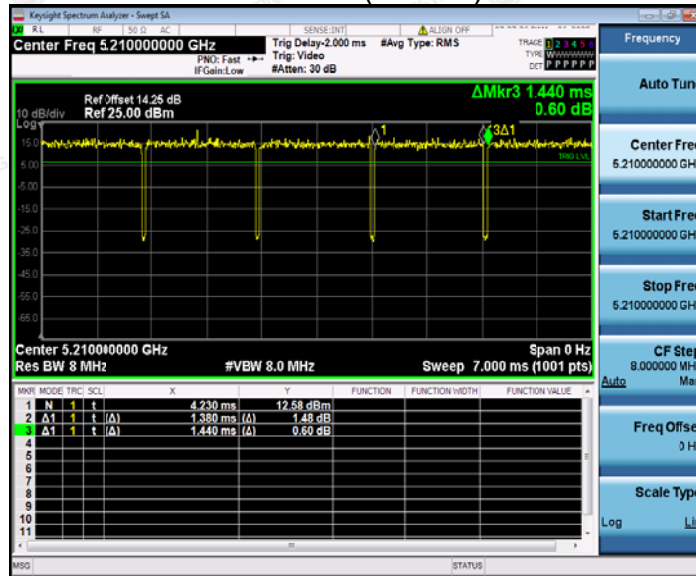


802.11be(EHT40)





802.11be(EHT80)

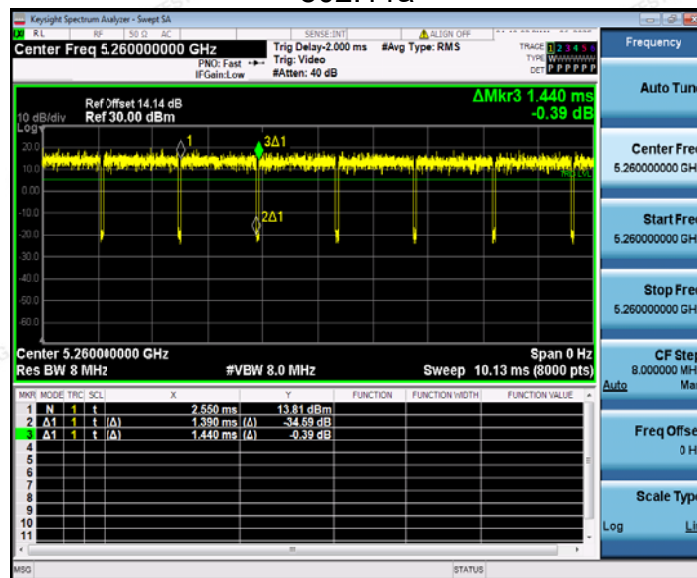




Mode Test Duty Cycle: 5260-5320MHz

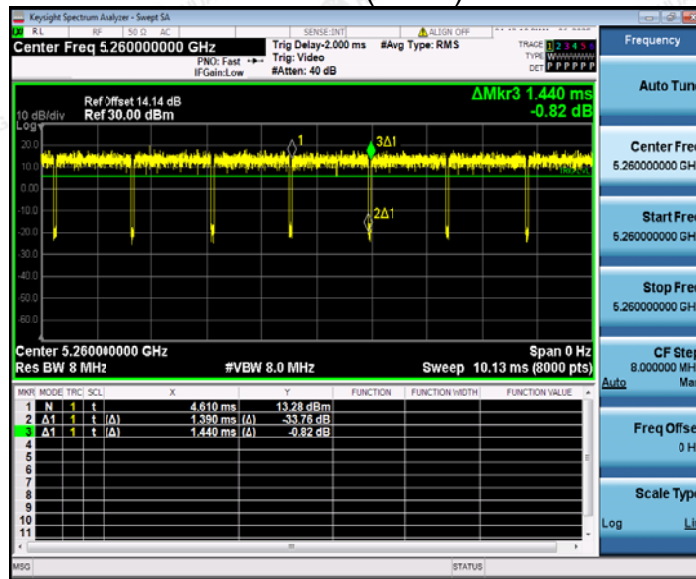
Mode	Duty Cycle
802.11a	0.97
802.11n(HT20)	0.97
802.11n(HT40)	0.97
802.11ac(HT20)	0.96
802.11ac(HT40)	0.97
802.11ac(HT80)	0.97
802.11ac(HT160)	0.97
802.11ax(HE20)	0.96
802.11ax(HE40)	0.97
802.11ax(HE80)	0.97
802.11ax(HE160)	0.97

802.11a

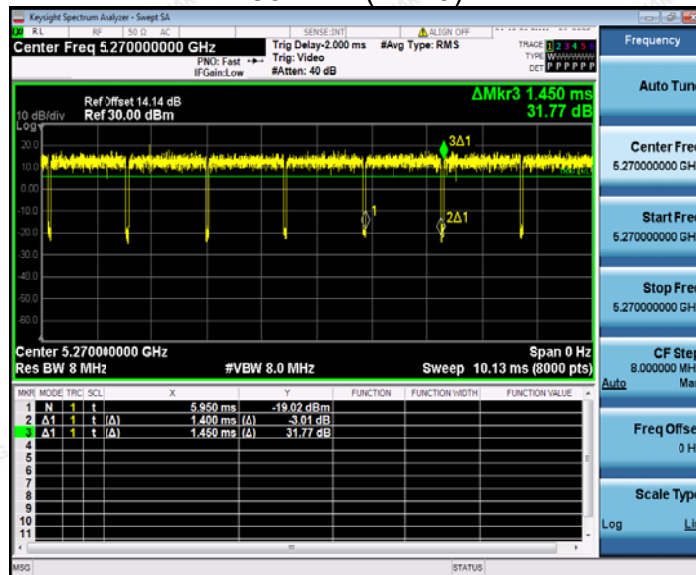




802.11n(HT20)

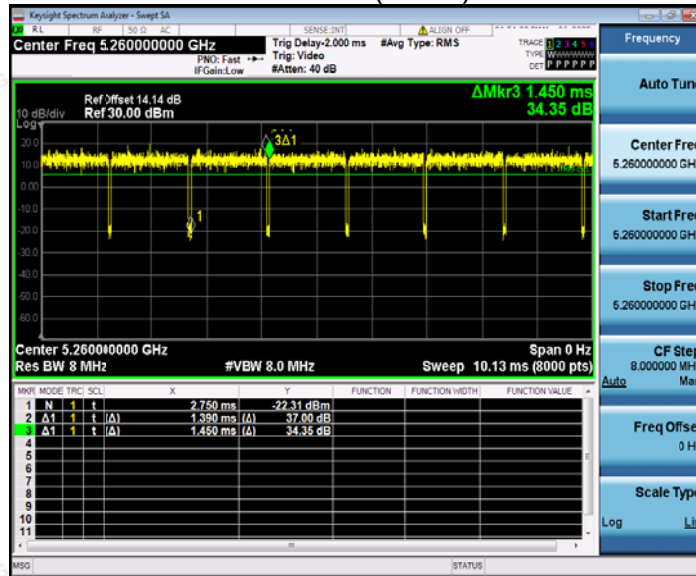


802.11n(HT40)

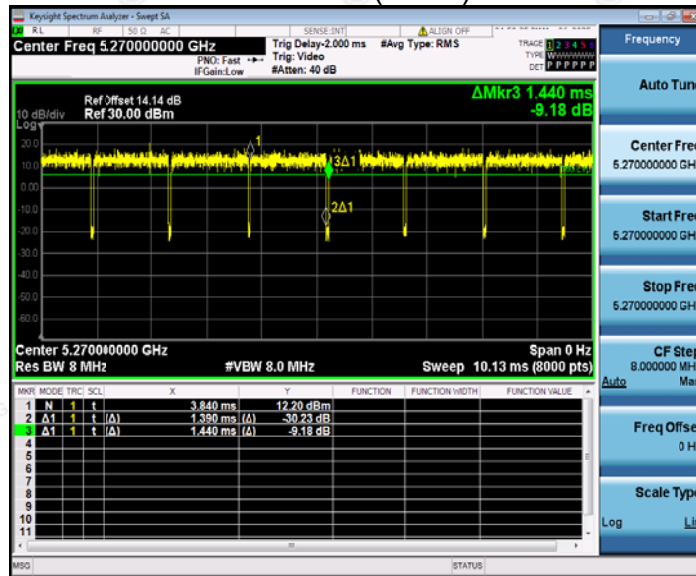




802.11ac(HT20)

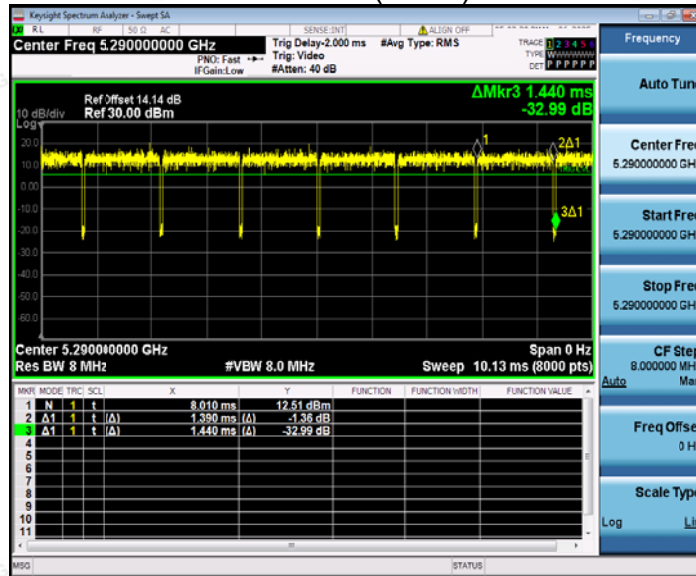


802.11ac(HT40)

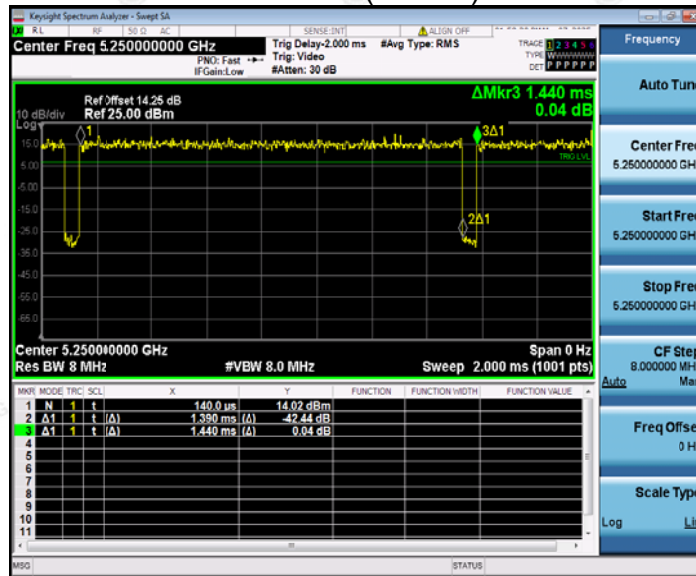




802.11ac(HT80)

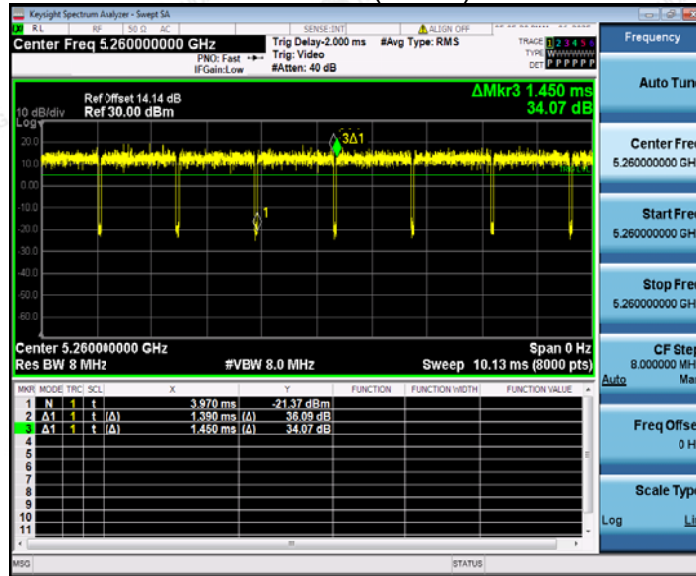


802.11ac(HT160)

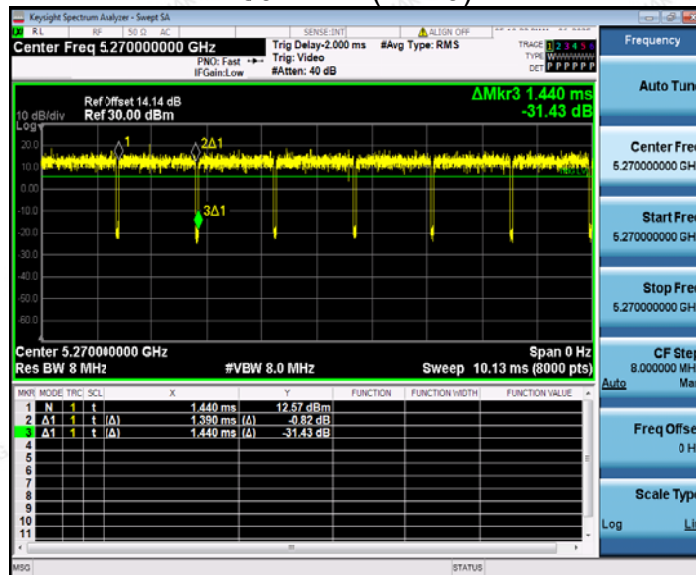




802.11ax(HE20)

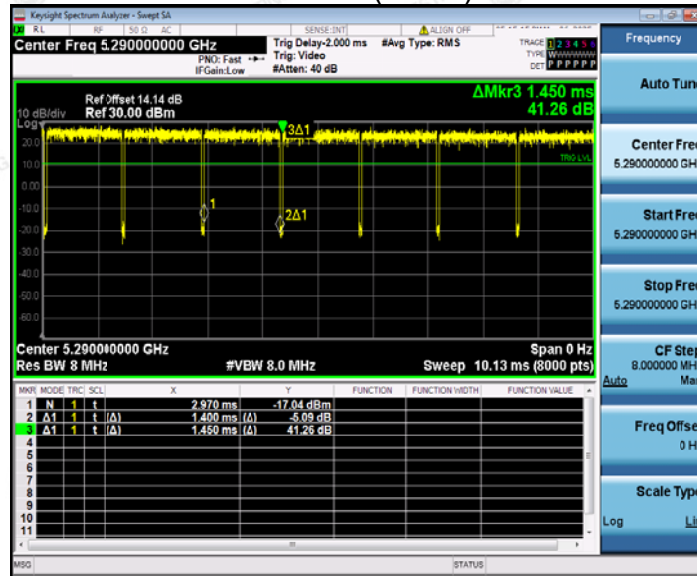


802.11ax(HE40)

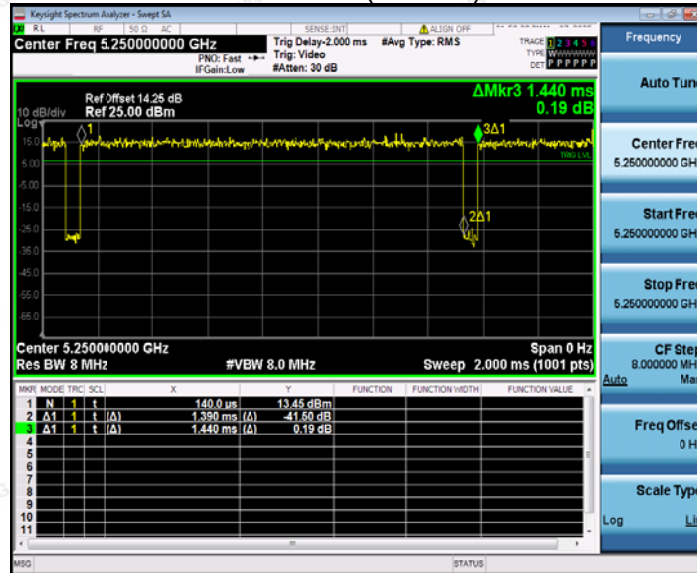




802.11ax(HE80)



802.11ax(HE160)

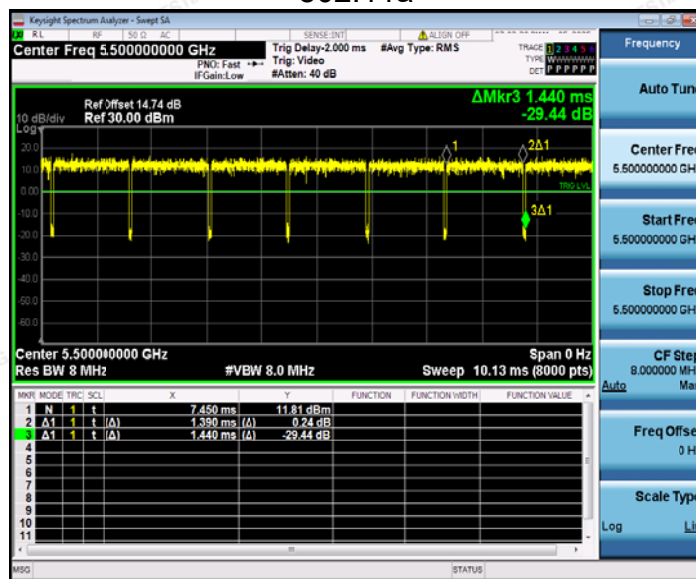




Mode Test Duty Cycle: 5500-5700MHz

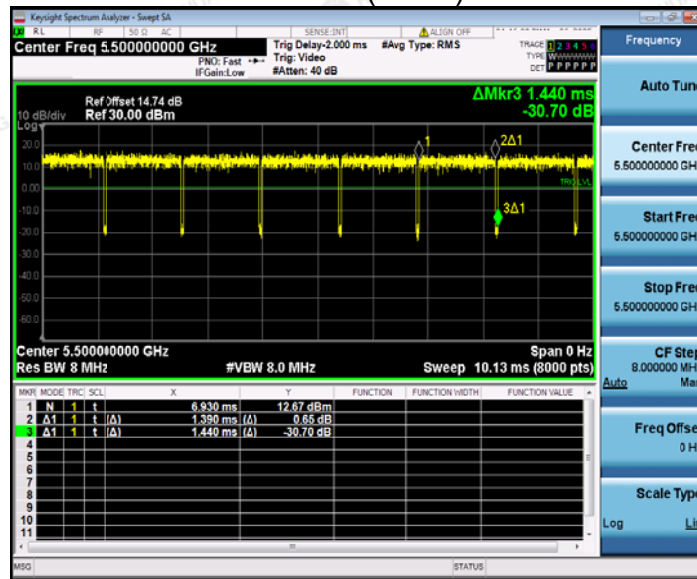
Mode	Duty Cycle
802.11a	0.97
802.11n(HT20)	0.97
802.11n(HT40)	0.96
802.11ac(HT20)	0.97
802.11ac(HT40)	0.97
802.11ac(HT80)	0.97
802.11ac(HT160)	0.97
802.11ax(HE20)	0.97
802.11ax(HE40)	0.97
802.11ax(HE80)	0.97
802.11ax(HE160)	0.97

802.11a

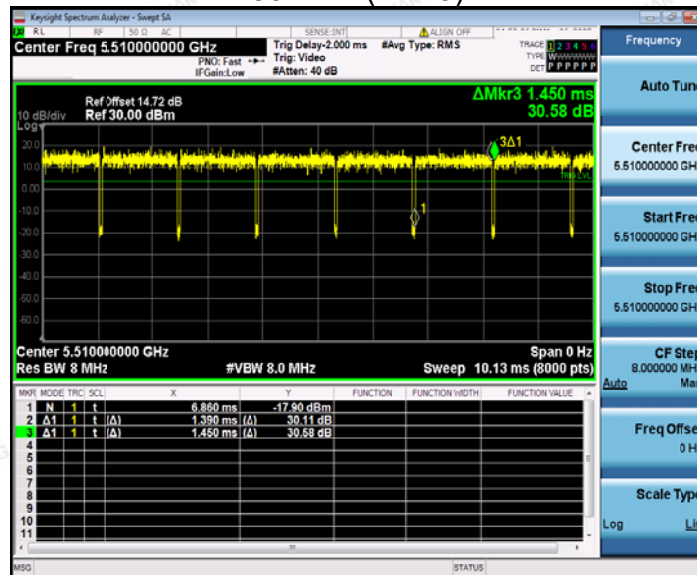




802.11n(HT20)

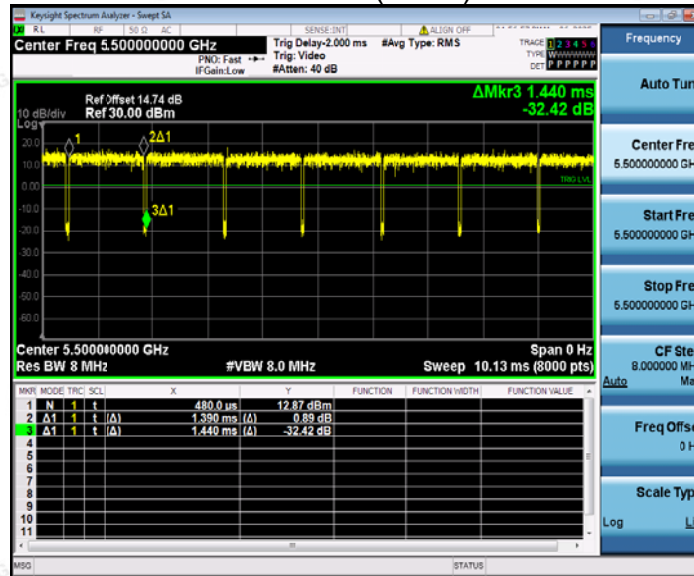


802.11n(HT40)

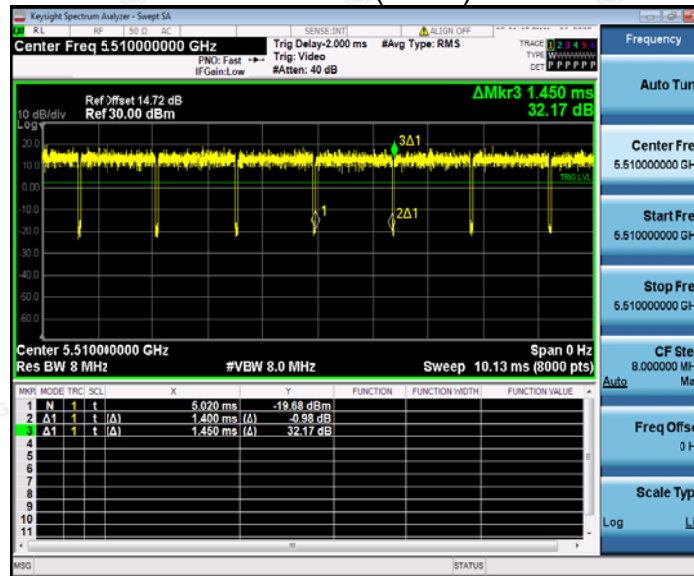




802.11ac(HT20)

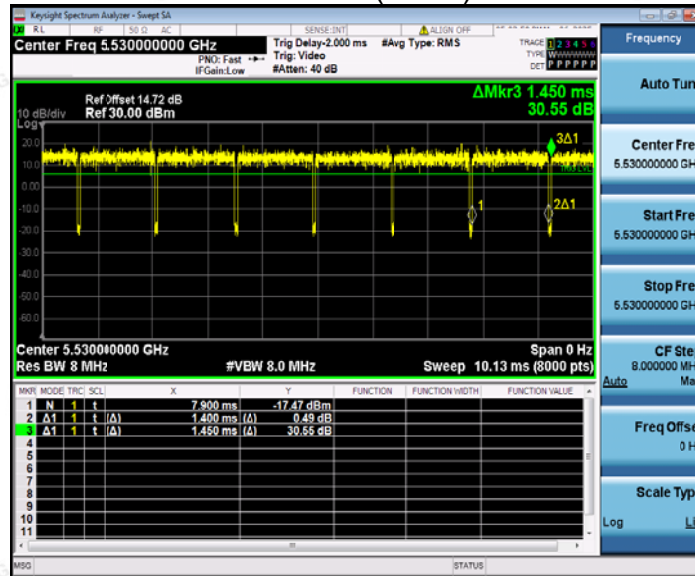


802.11ac(HT40)

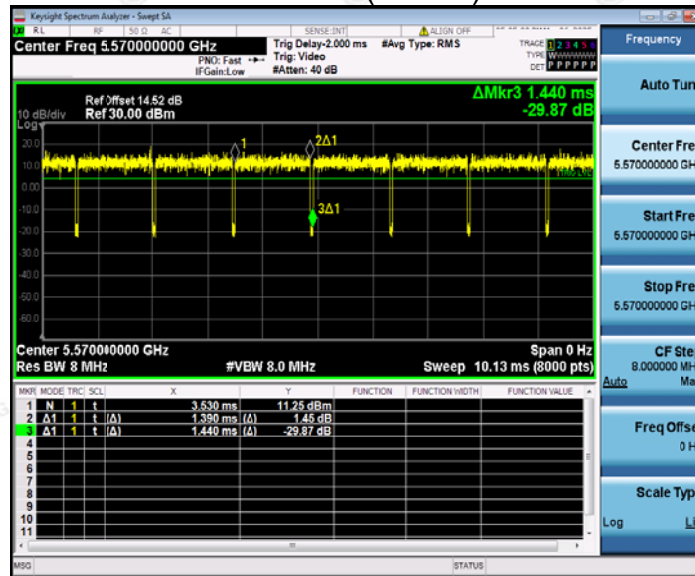




802.11ac(HT80)

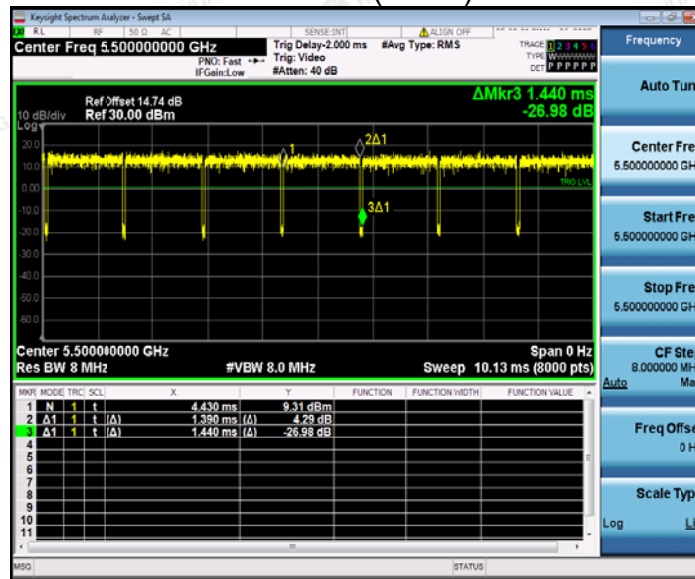


802.11ac(HT160)

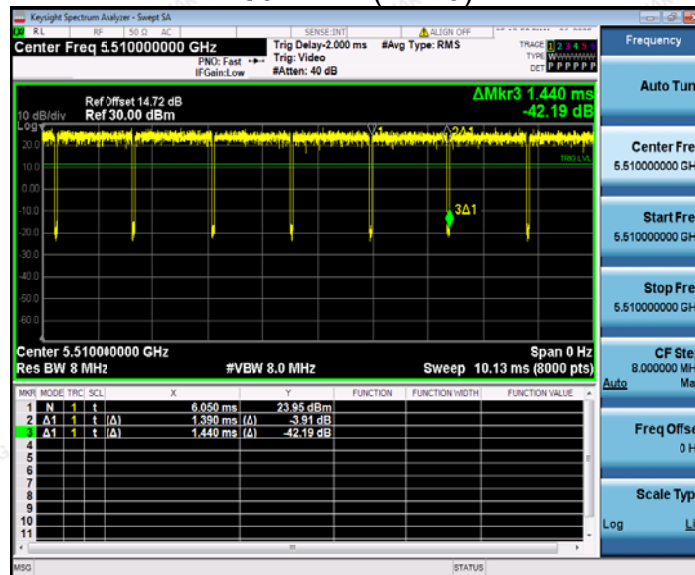




802.11ax(HE20)

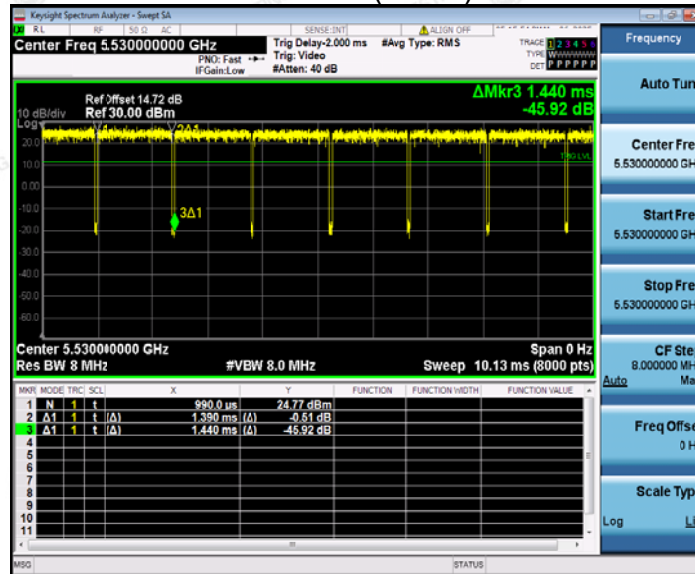


802.11ax(HE40)





802.11ax(HE80)



802.11ax(HE160)

