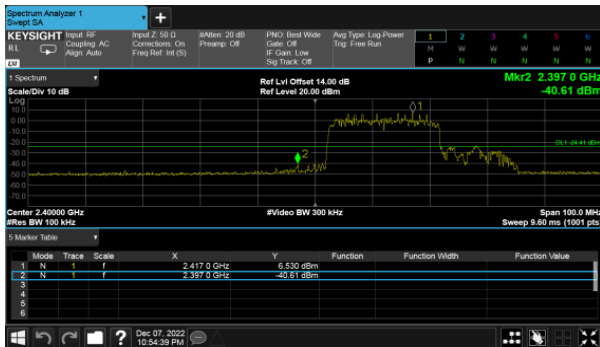
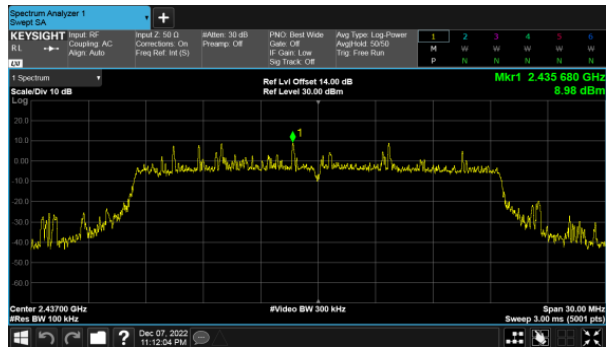




BeamForming, ANT C
Modulation Type: 802.11ax HE20, CH01

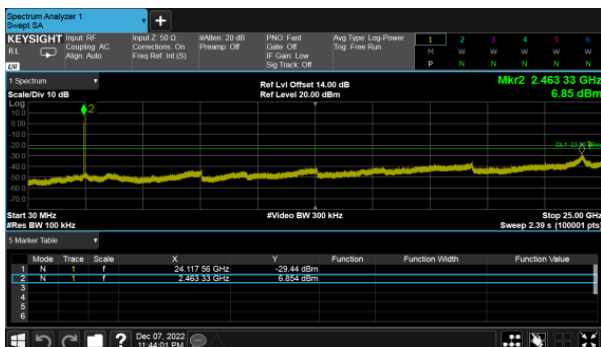
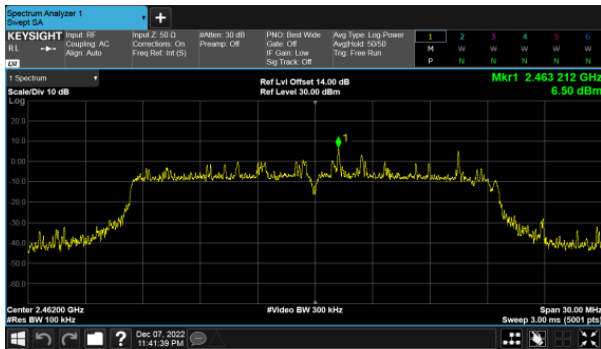


Modulation Type: 802.11ax HE20, CH06





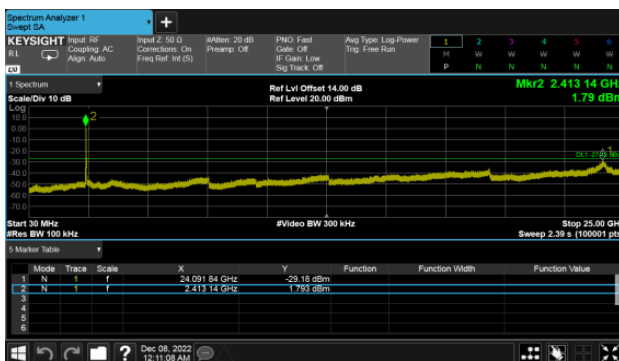
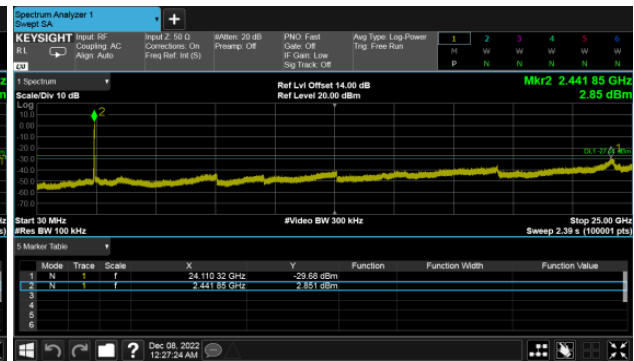
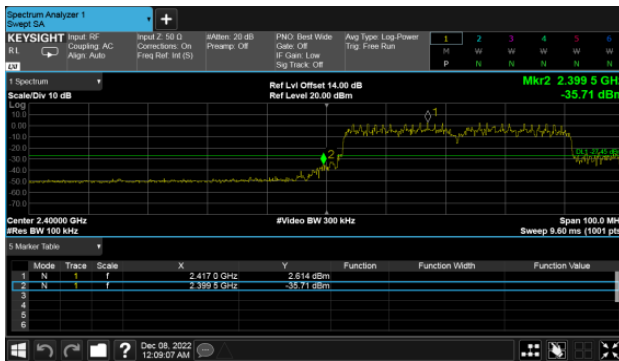
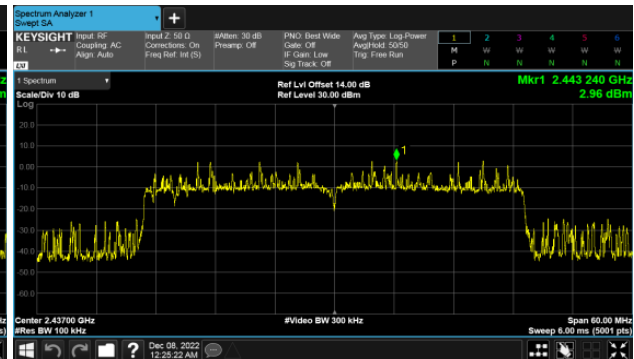
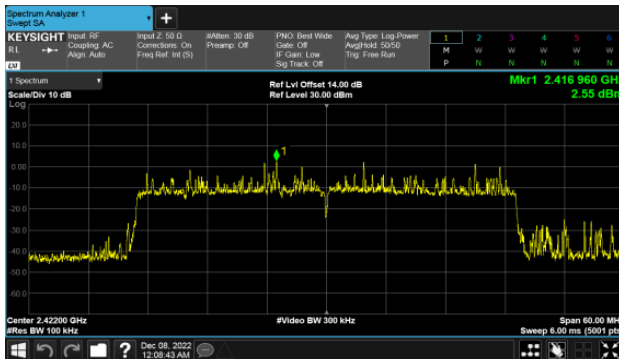
Modulation Type: 802.11ax HE20, CH11





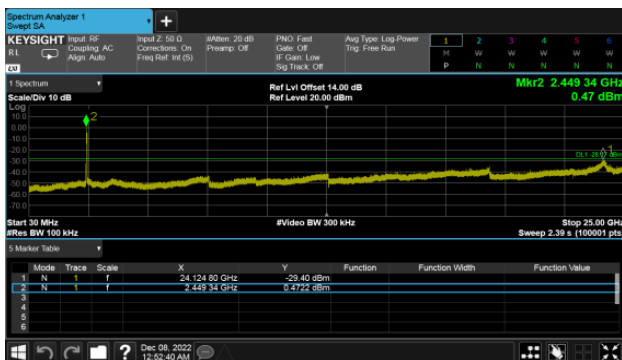
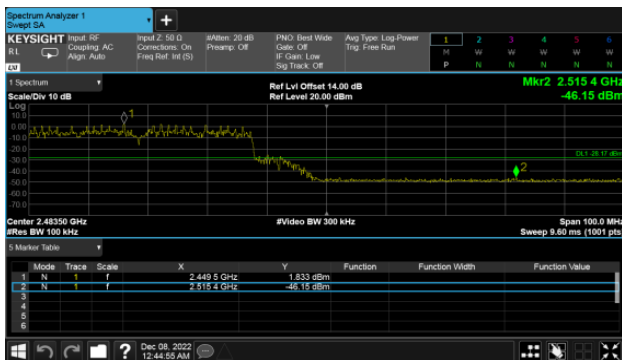
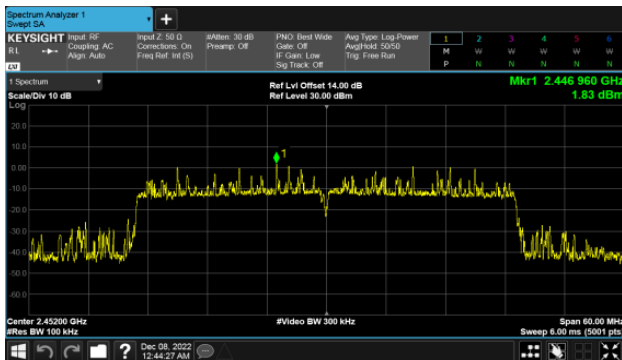
Modulation Type: 802.11ax HE40, CH03

Modulation Type: 802.11ax HE40, CH06





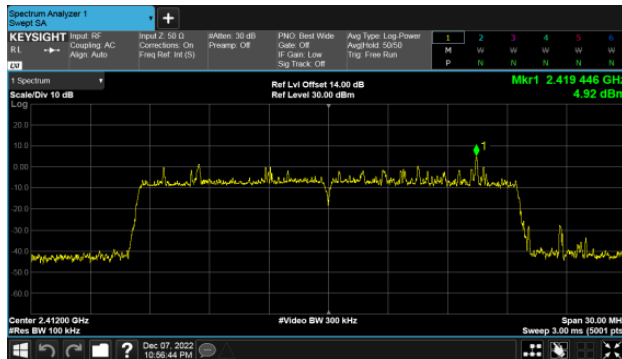
Modulation Type: 802.11ax HE40, CH09



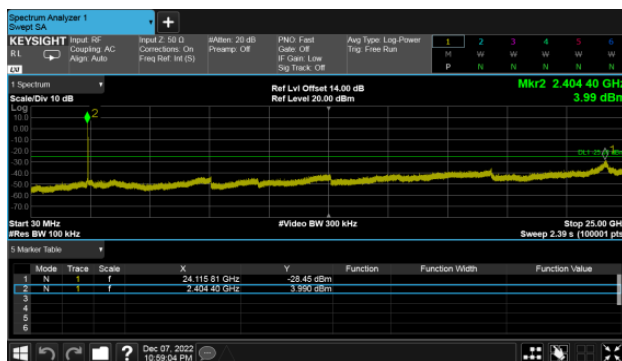
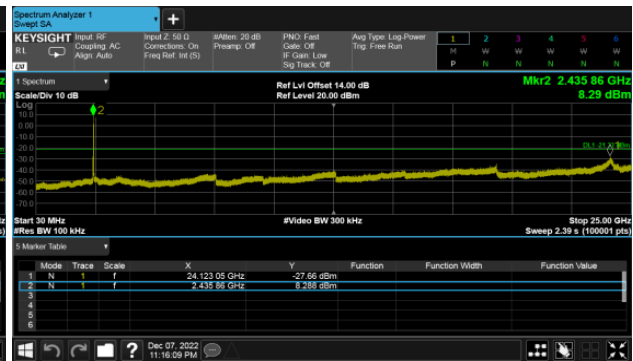
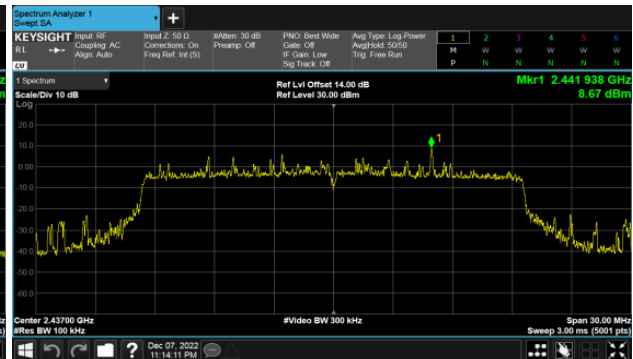


BeamForming, ANT D

Modulation Type: 802.11ax HE20, CH01

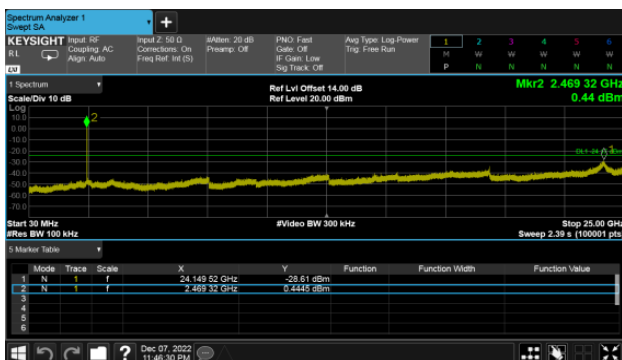
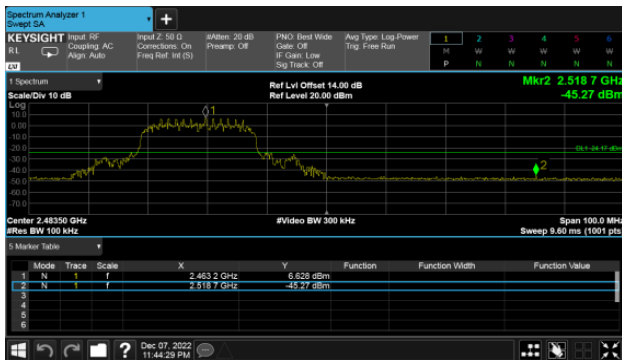
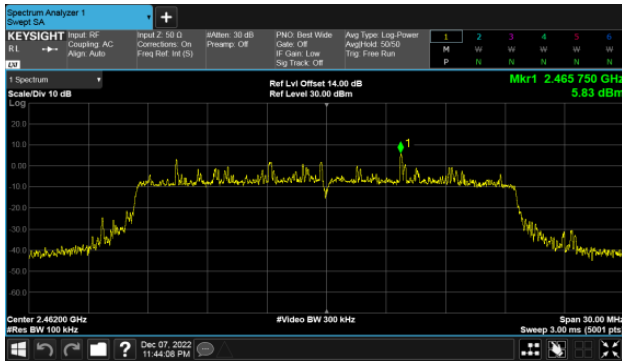


Modulation Type: 802.11ax HE20, CH06





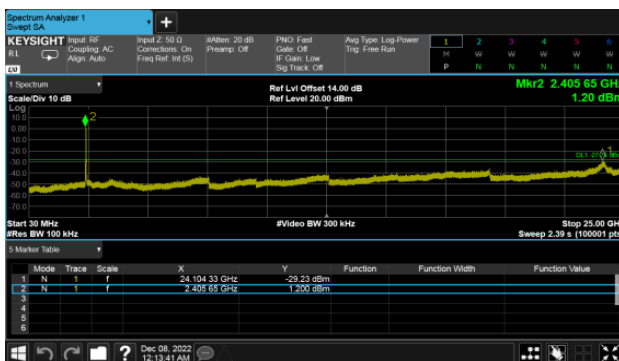
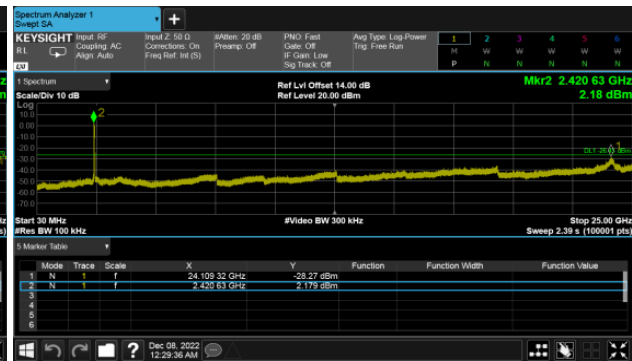
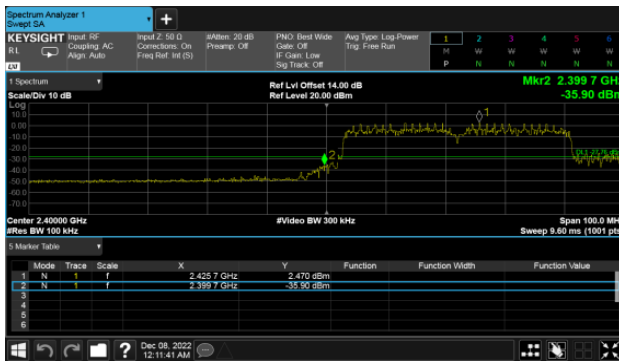
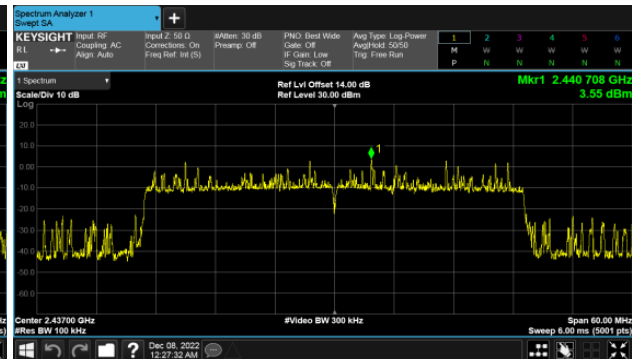
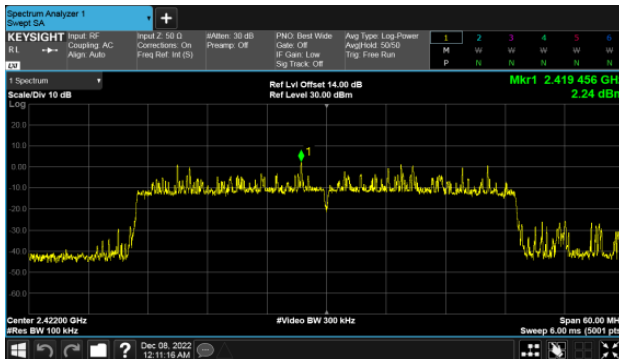
Modulation Type: 802.11ax HE20, CH11





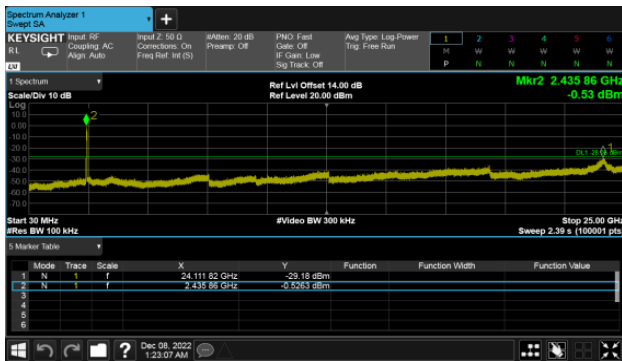
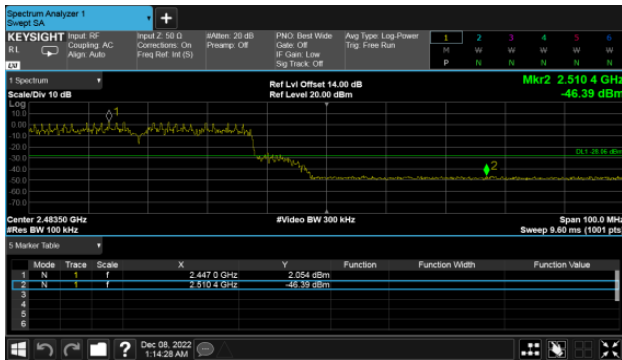
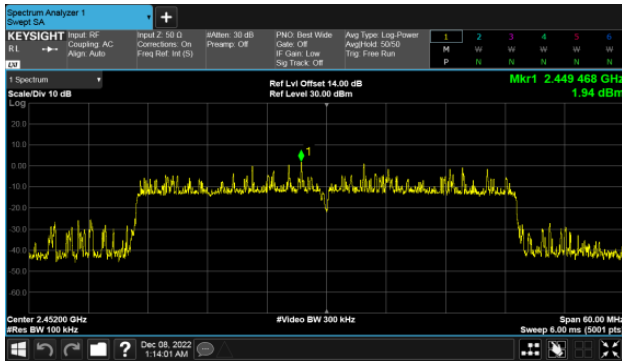
Modulation Type: 802.11ax HE40, CH03

Modulation Type: 802.11ax HE40, CH06





Modulation Type: 802.11ax HE40, CH09





8. On Time, Duty Cycle and Measurement methods

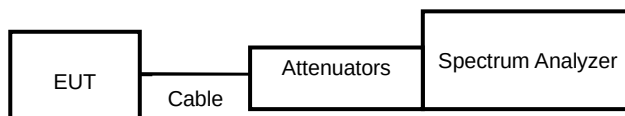
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.6
Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

Non BeamForming

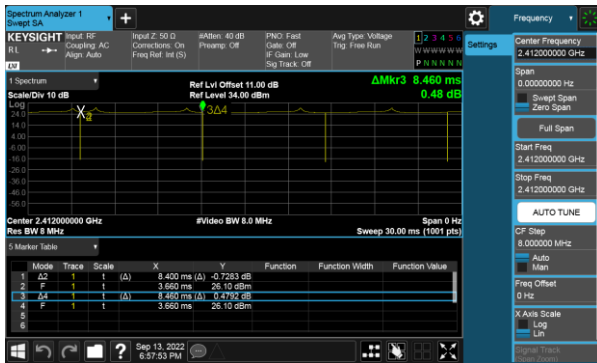
Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
11b,1M	8.40	8.46	99.29%
11g,6M	1.39	1.45	95.87%
11ax HE20	0.35	0.40	85.77%
11ax HE40	0.35	0.40	85.71%

BeamForming

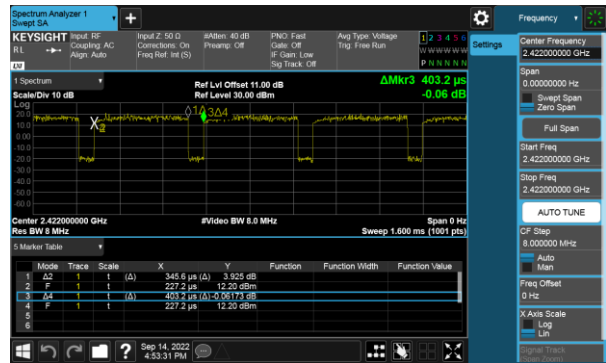
Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
11ax HE20	3.80	4.10	92.77%
11ax HE40	1.93	2.21	87.16%



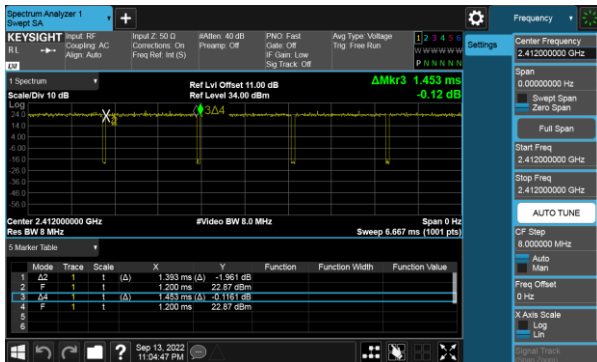
Non BeamForming
Modulation Type: 802.11b(1Mbps)



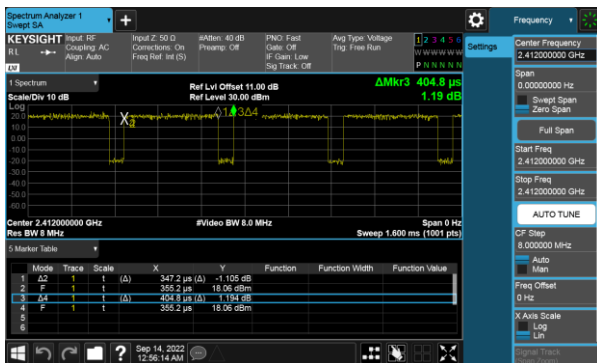
Modulation Type: 802.11ax HE40(14.6Mbps)



Modulation Type: 802.11g(6Mbps)



Modulation Type: 802.11ax HE20(7.3Mbps)





9. 6dB Bandwidth Measurement Data

9.1 Test Limit

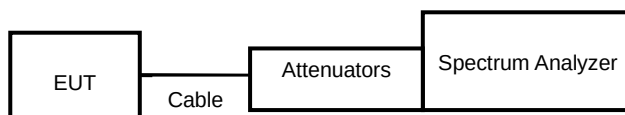
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout





9.4 Test Result and Data

Non BeamForming

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Limit (MHz)
			ANT A	ANT B	ANT C	ANT D	
11b	1	2412	8.04	8.04	8.07	8.04	0.5
	6	2437	8.04	8.04	8.04	8.04	0.5
	11	2462	8.07	8.04	8.04	8.04	0.5
11g	1	2412	15.51	15.72	16.02	16.32	0.5
	6	2437	15.75	15.48	16.02	16.08	0.5
	11	2462	15.81	15.66	16.29	16.29	0.5
11ax HE20	1	2412	18.48	18.69	18.72	18.69	0.5
	6	2437	18.24	18.18	17.85	18.03	0.5
	11	2462	18.18	18.33	18.30	18.09	0.5
11ax HE40	3	2422	36.95	36.70	36.95	37.30	0.5
	6	2437	37.30	36.05	36.10	36.05	0.5
	9	2452	36.80	35.55	36.65	37.00	0.5

BeamForming

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Limit (MHz)
			ANT A	ANT B	ANT C	ANT D	
11ax HE20	1	2412	18.96	18.98	18.93	18.72	0.5
	6	2437	18.49	18.91	18.64	18.34	0.5
	11	2462	18.30	18.60	18.88	19.00	0.5
11ax HE40	3	2422	37.09	37.94	37.91	36.97	0.5
	6	2437	37.05	37.94	37.98	37.70	0.5
	9	2452	37.19	37.98	37.88	38.05	0.5



6dB Bandwidth
Non BeamForming
ANT A
Modulation Type: 802.11b
CH01



Modulation Type: 802.11g
CH01



CH06



CH06



CH11

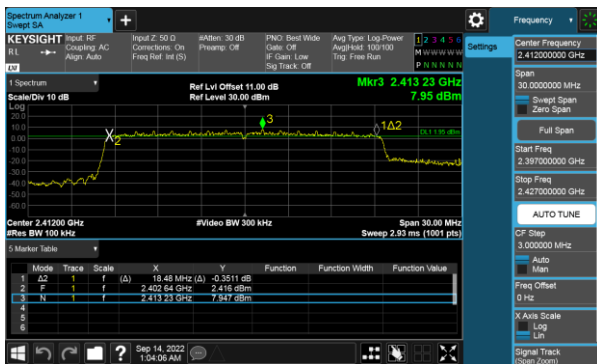


CH11

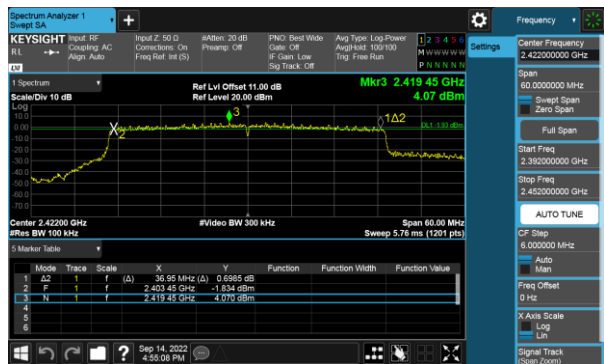




Modulation Type: 802.11ax HE20
CH01



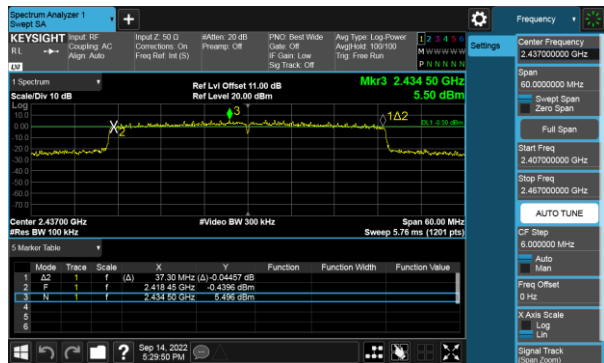
Modulation Type: 802.11ax HE40
CH03



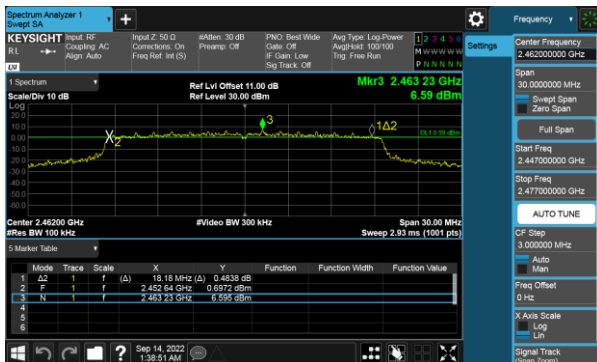
CH06



CH06



CH11



CH09





ANT B

Modulation Type: 802.11b
CH01Modulation Type: 802.11b
CH01

CH06



CH06

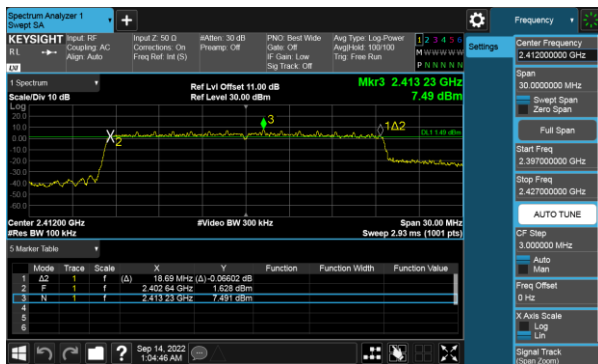
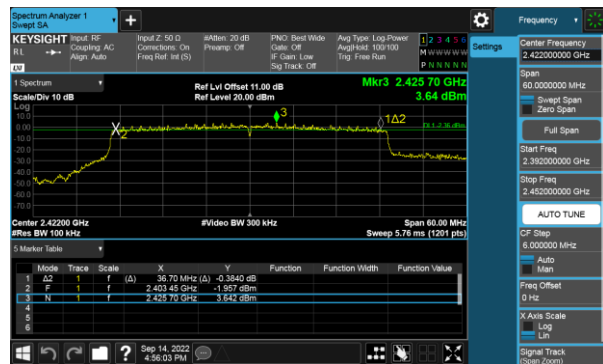


CH11

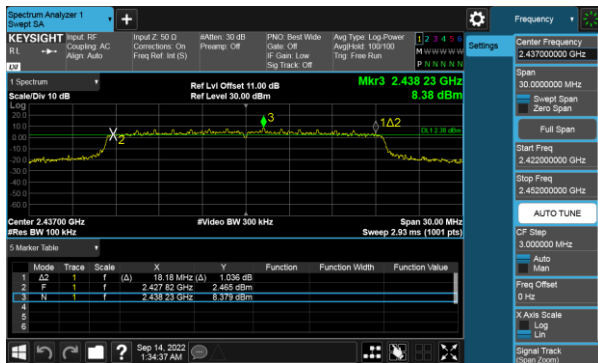


CH11

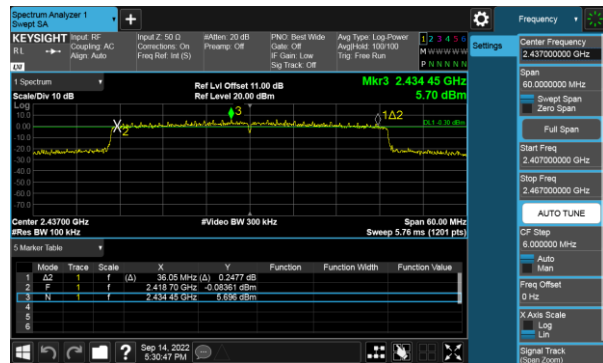


Modulation Type: 802.11ax HE20
CH01Modulation Type: 802.11ax HE40
CH03

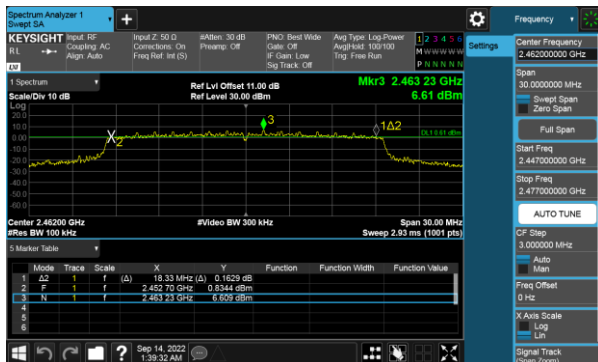
CH06



CH06



CH11



CH09





ANT C

Modulation Type: 802.11b
CH01Modulation Type: 802.11b
CH01

CH06



CH06

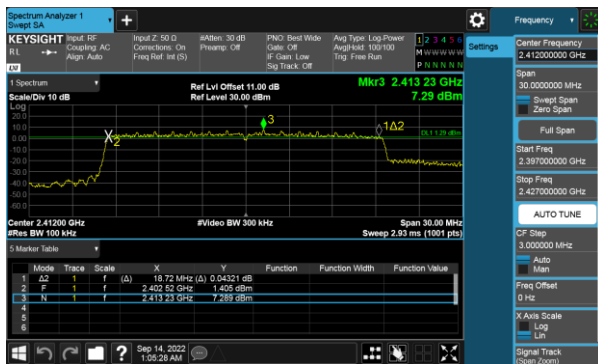
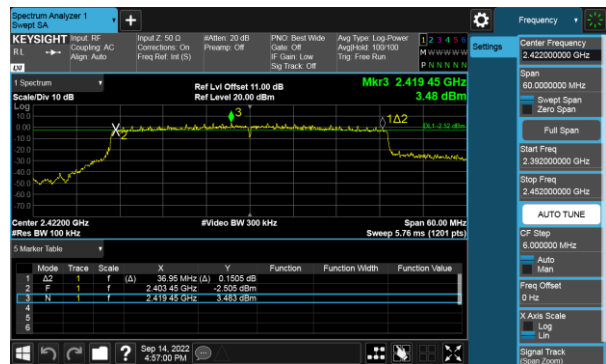


CH11

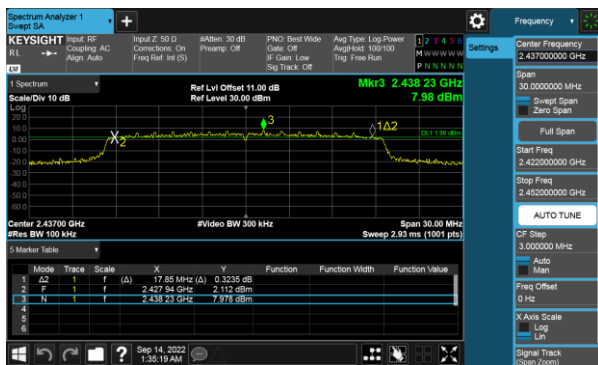


CH11

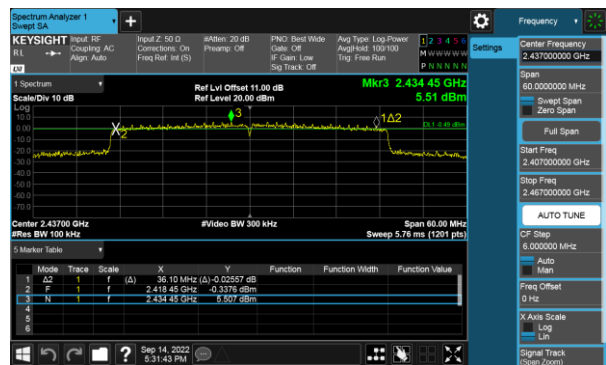


Modulation Type: 802.11ax HE20
CH01Modulation Type: 802.11ax HE40
CH03

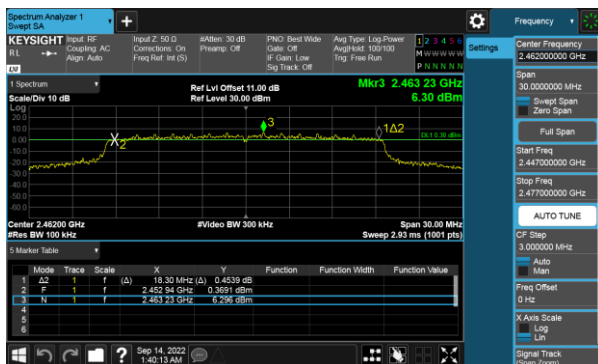
CH06



CH06



CH11



CH09





ANT D

Modulation Type: 802.11b
CH01Modulation Type: 802.11b
CH01

CH06



CH06



CH11



CH11

