

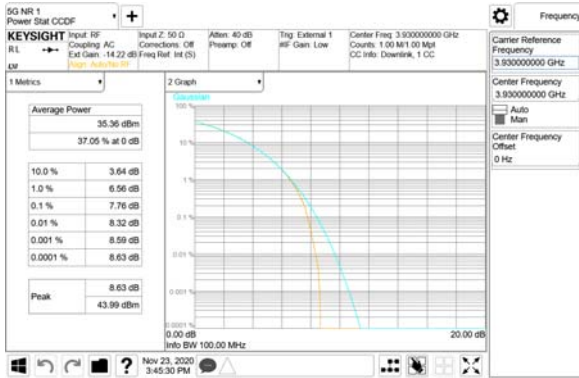


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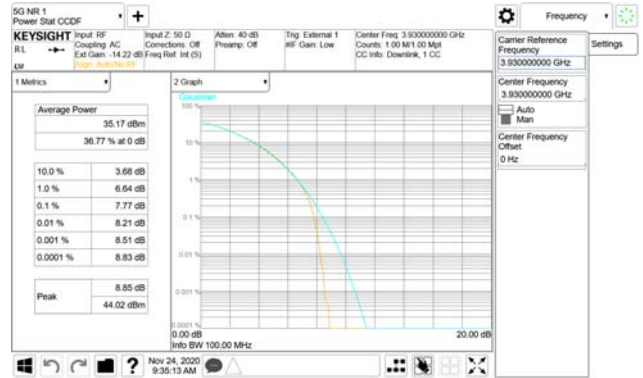
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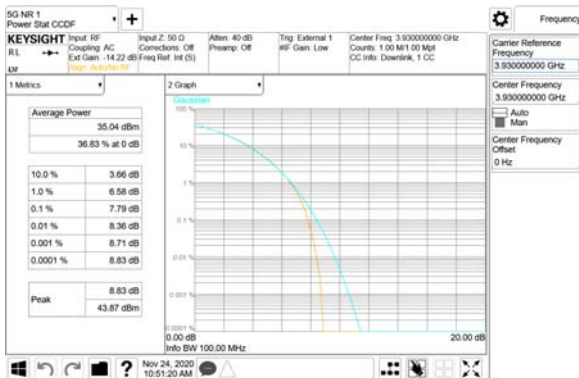
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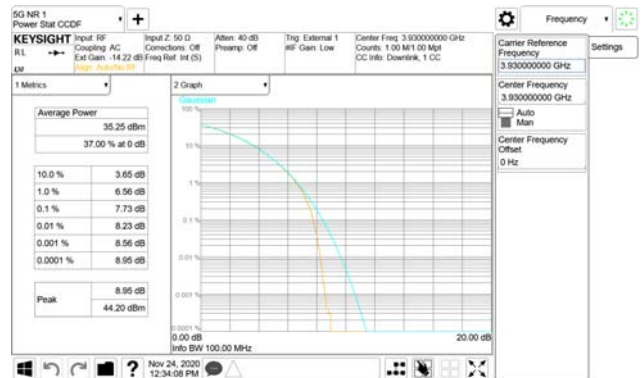
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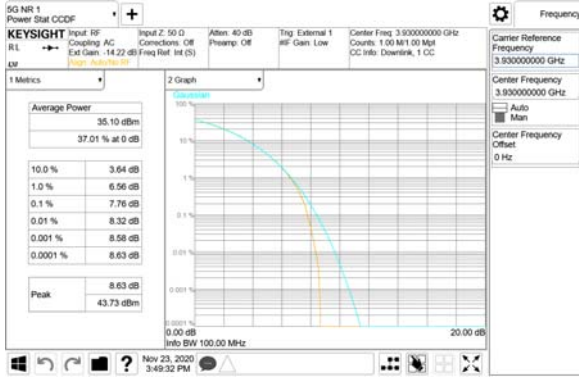


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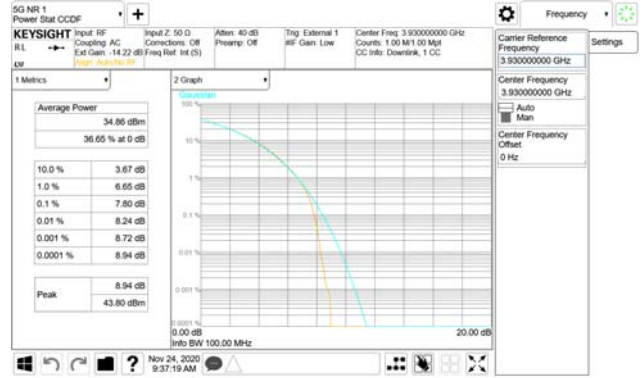
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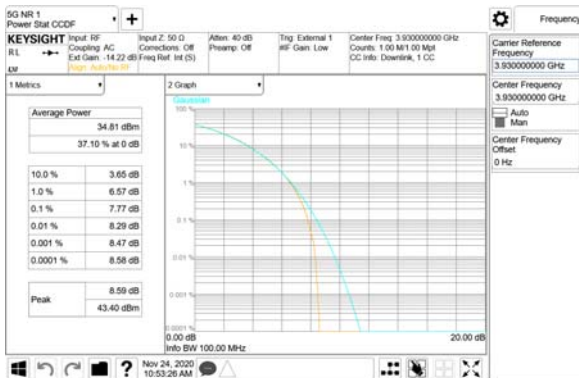
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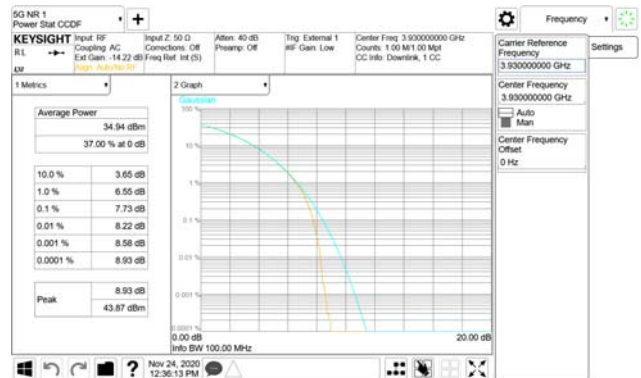
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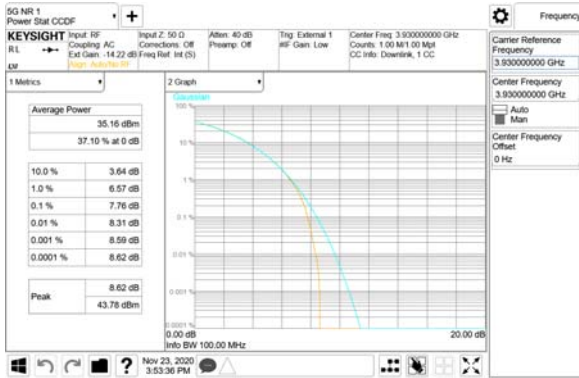


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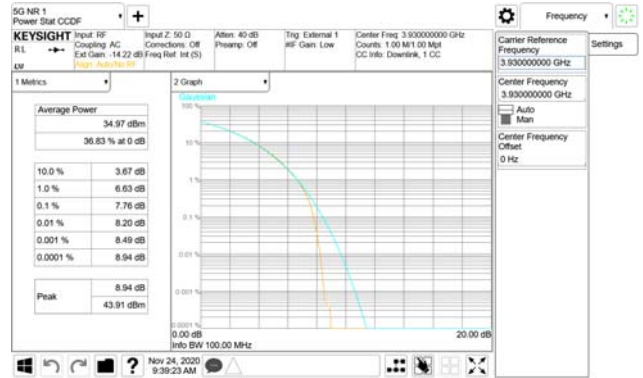
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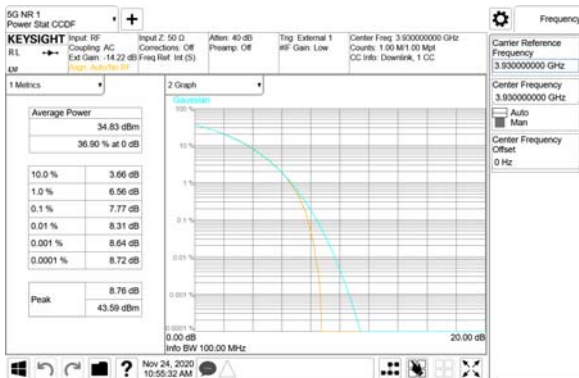
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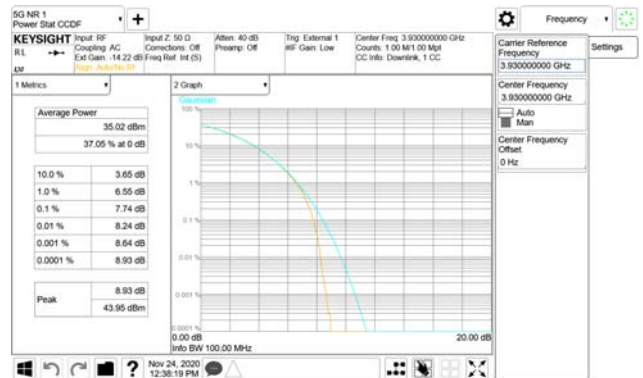
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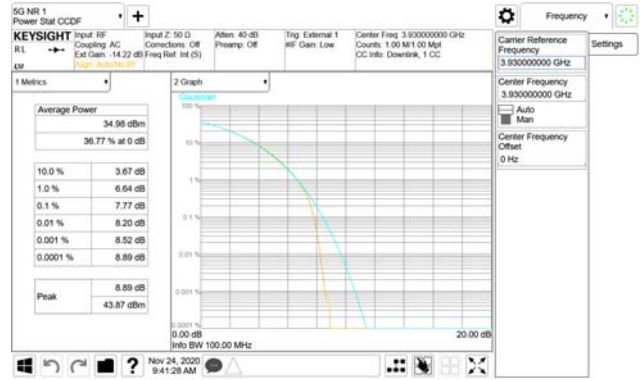
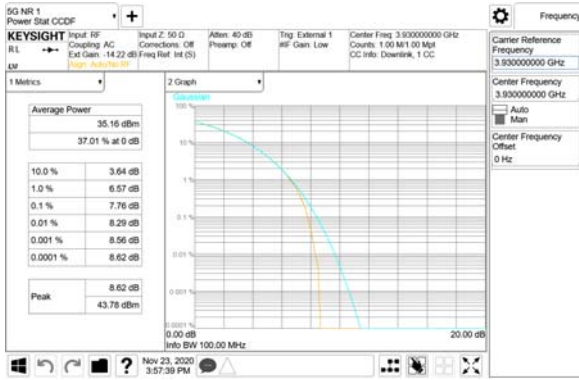




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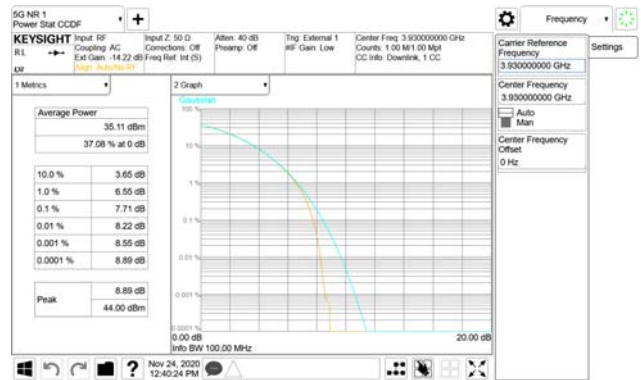
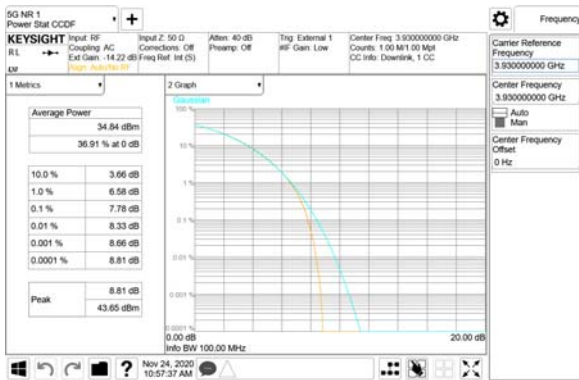
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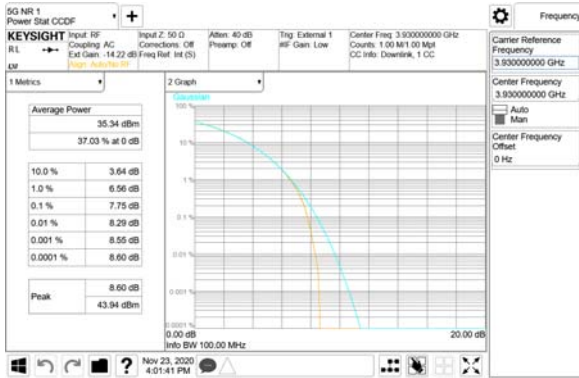


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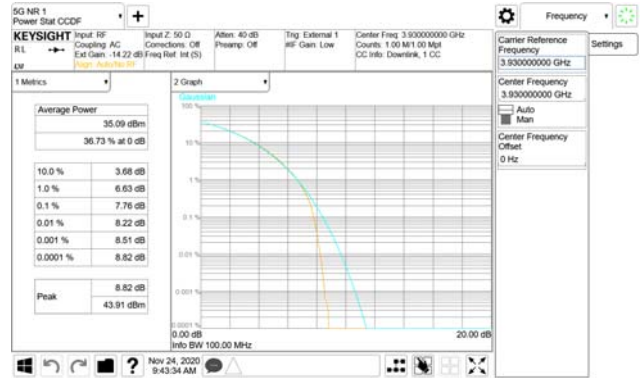
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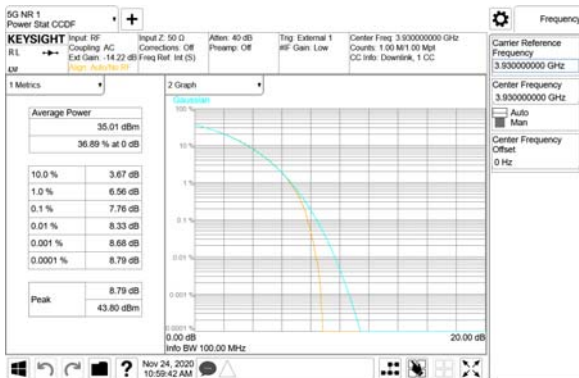
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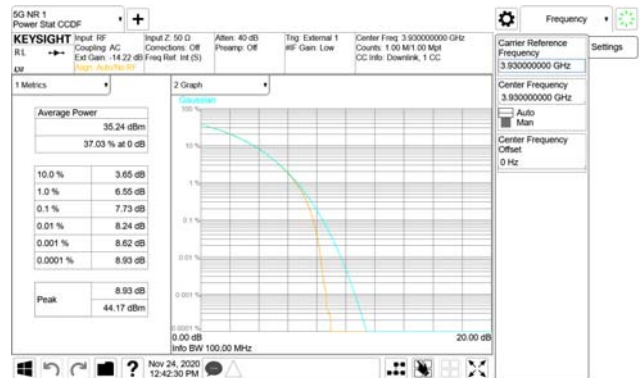
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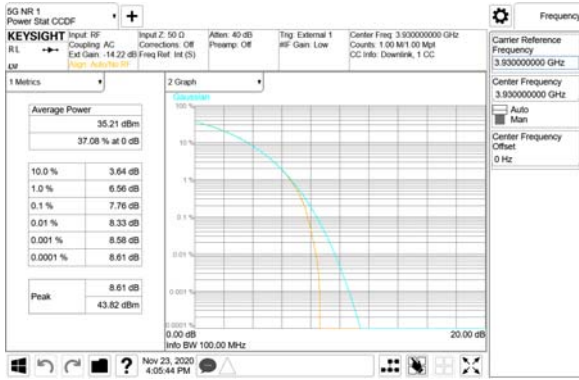


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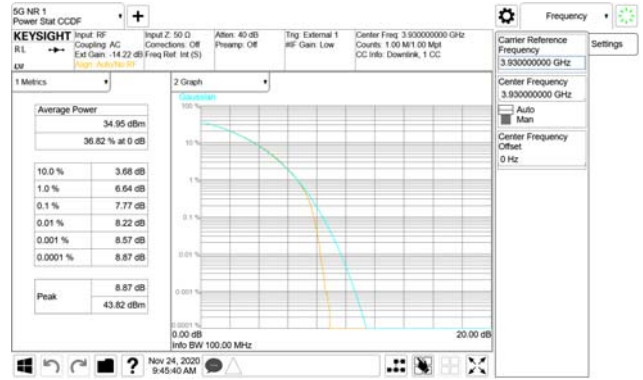
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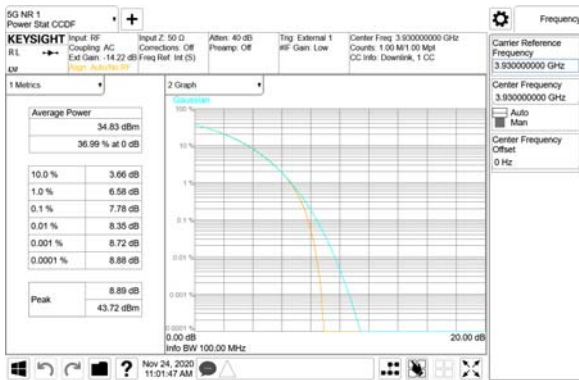
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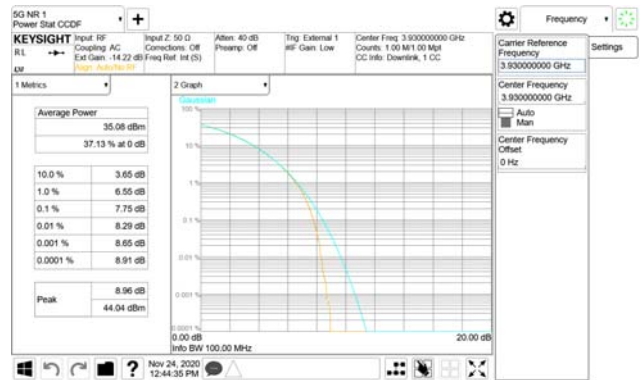
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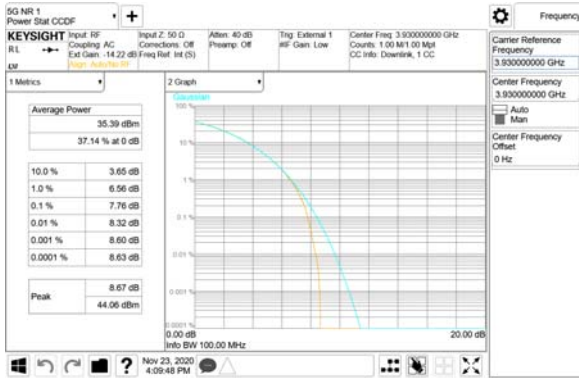


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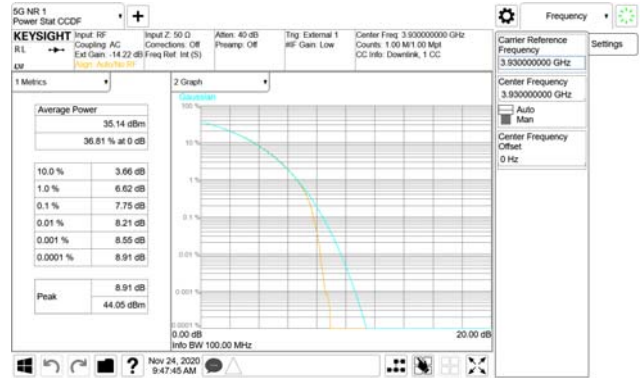
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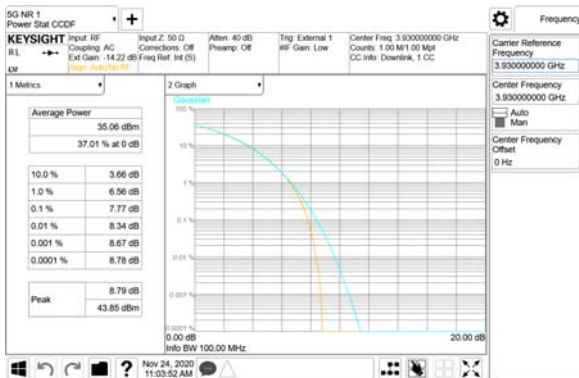
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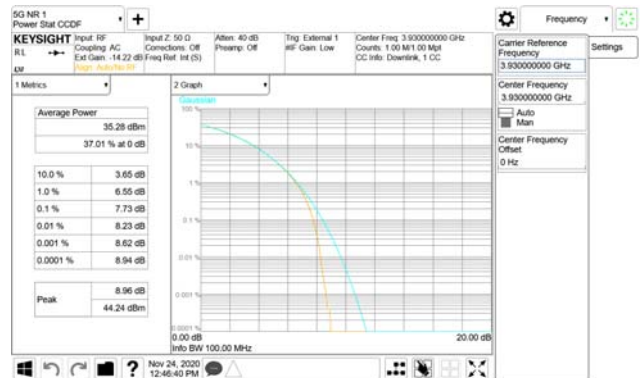
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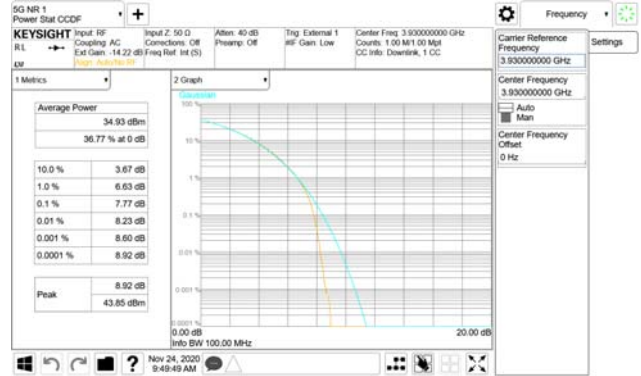
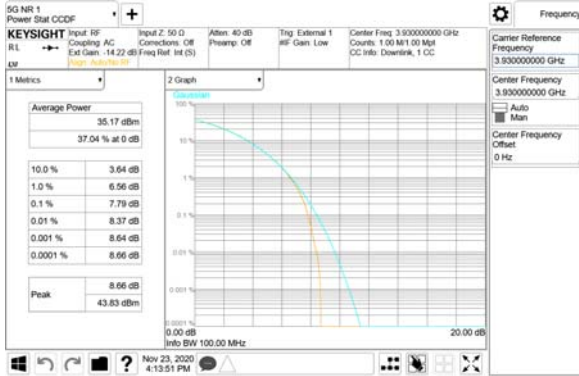
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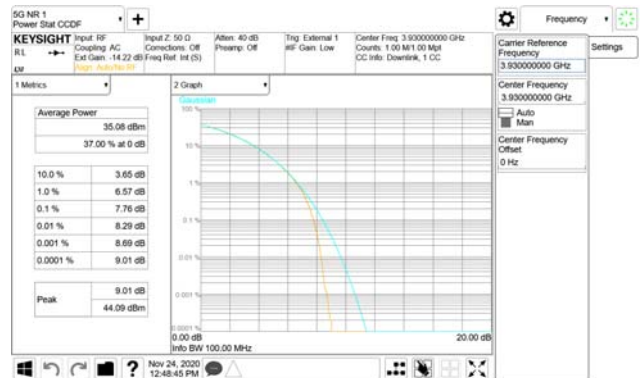
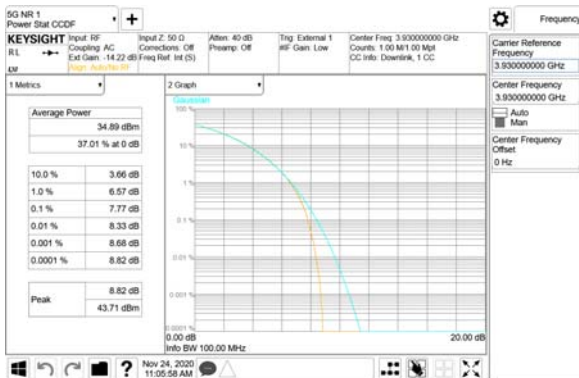
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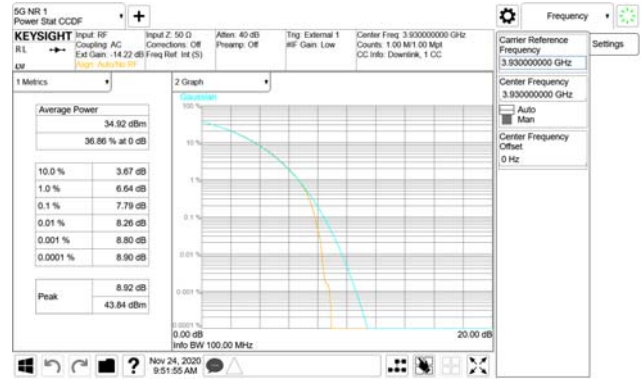
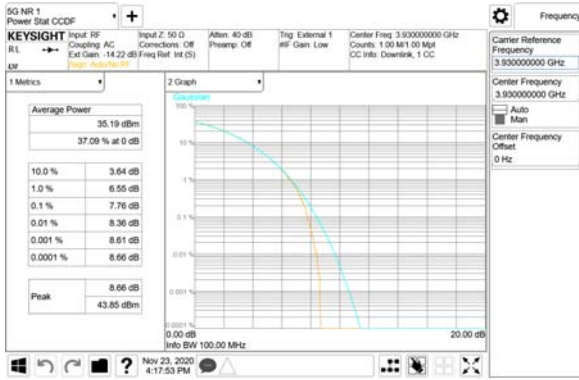
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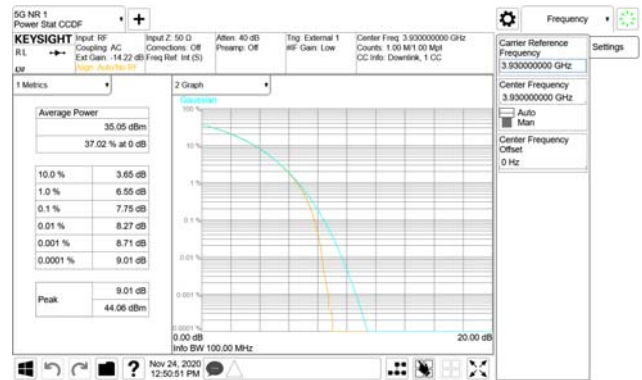
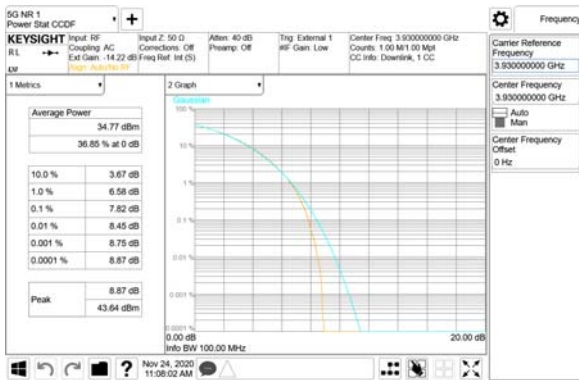
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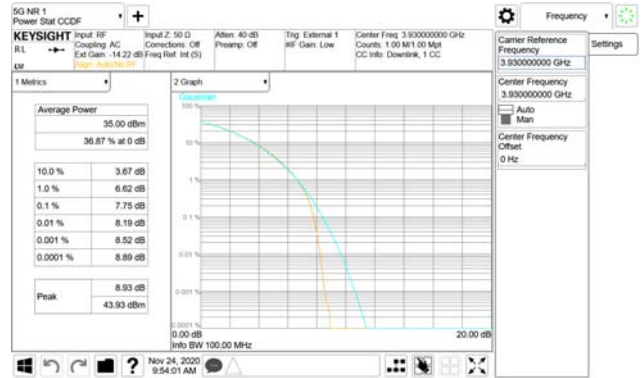
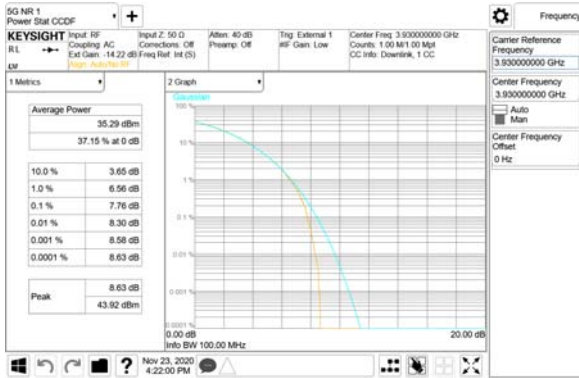
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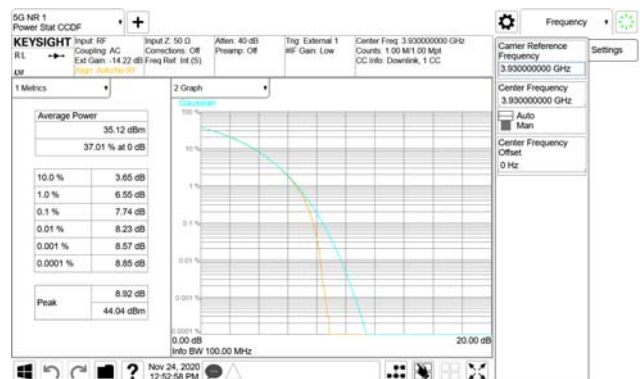
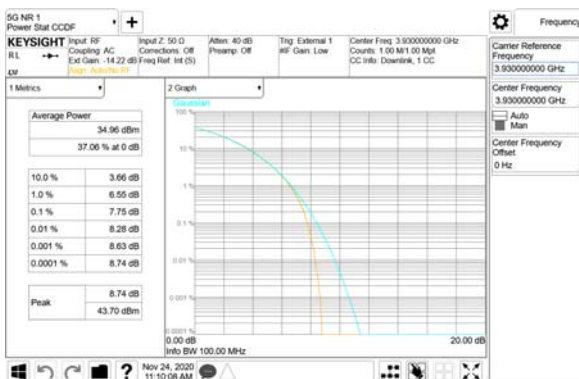
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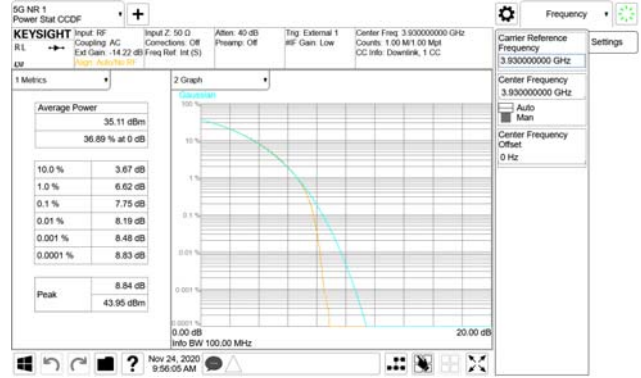
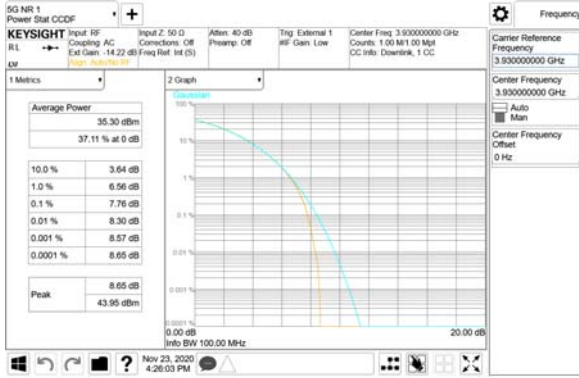
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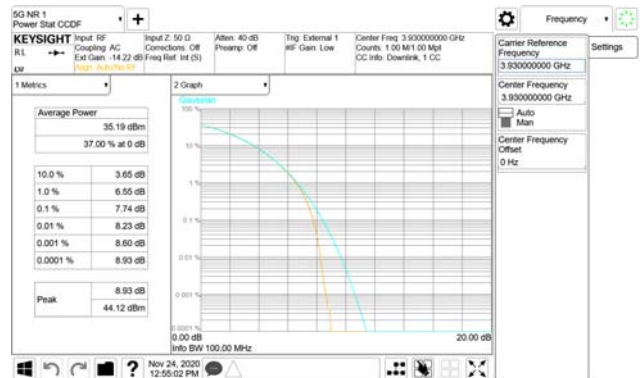
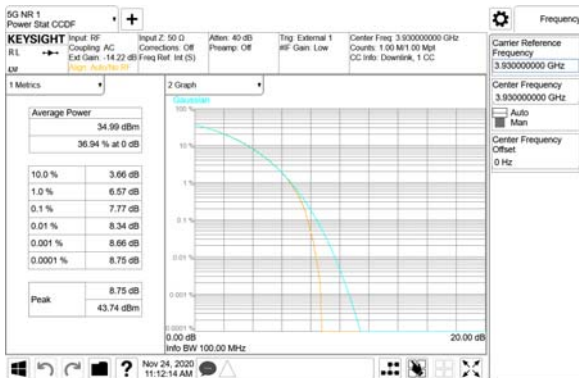
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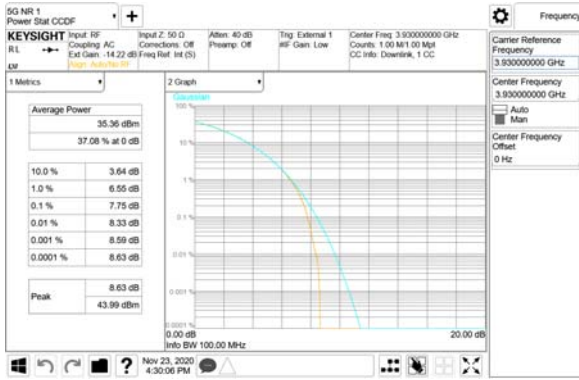


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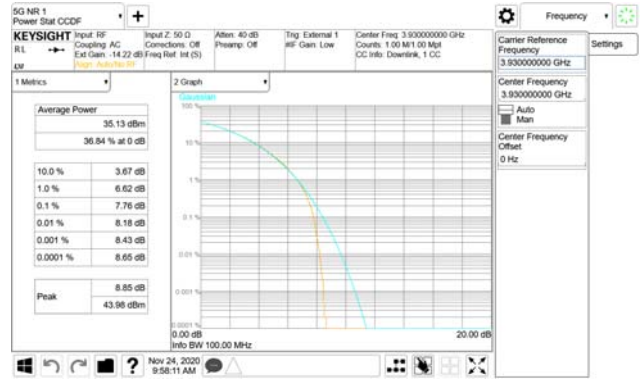
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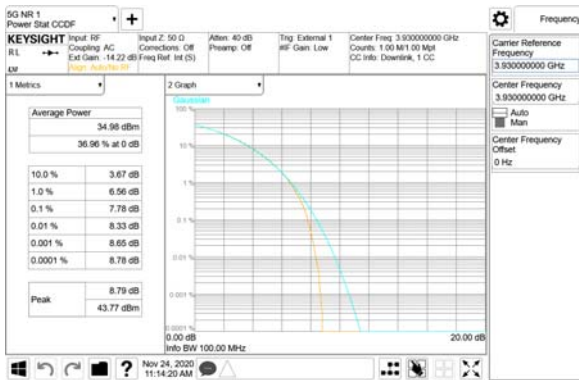
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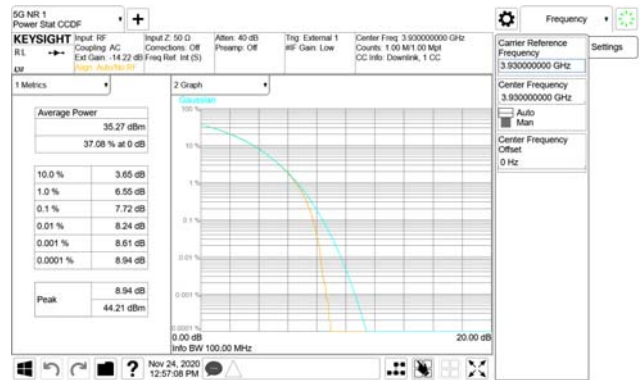
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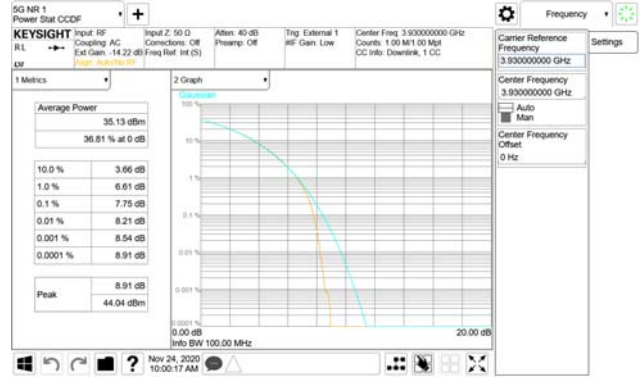
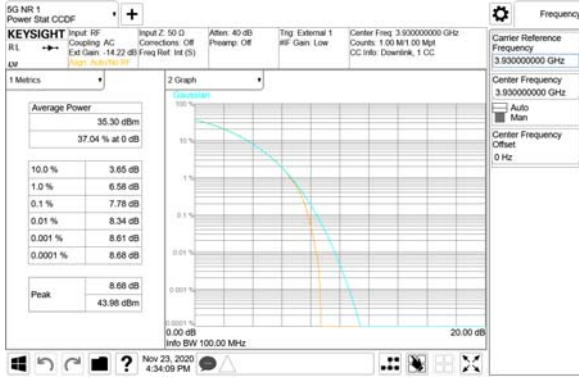
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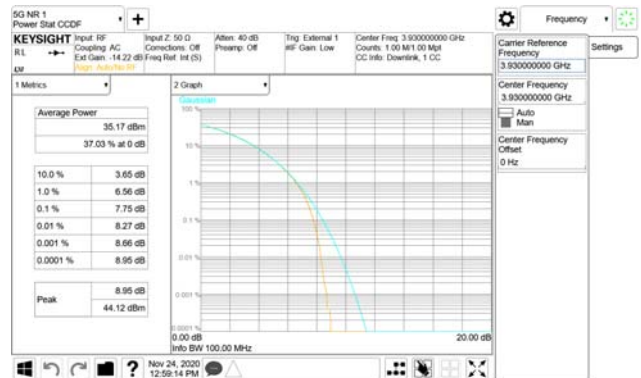
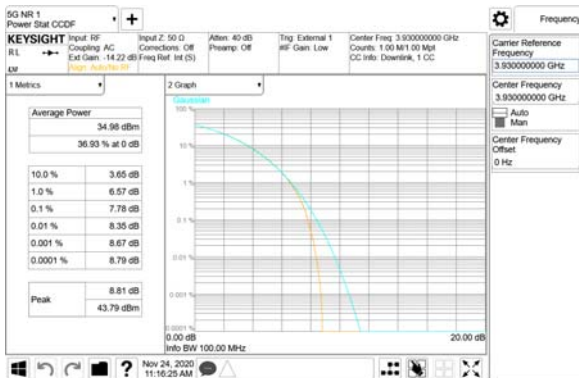
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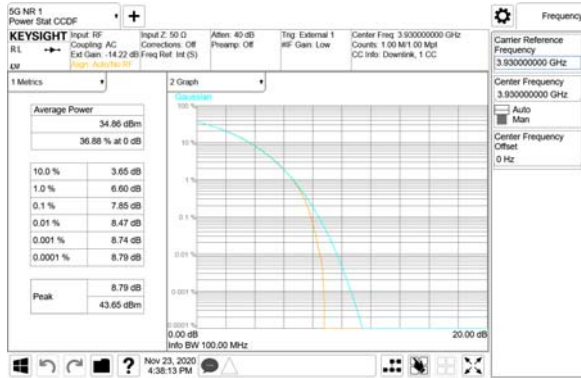


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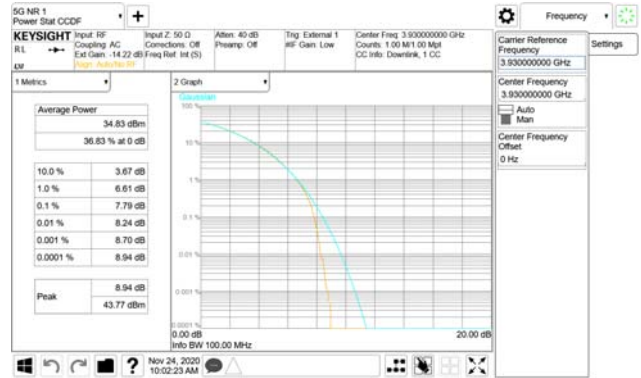
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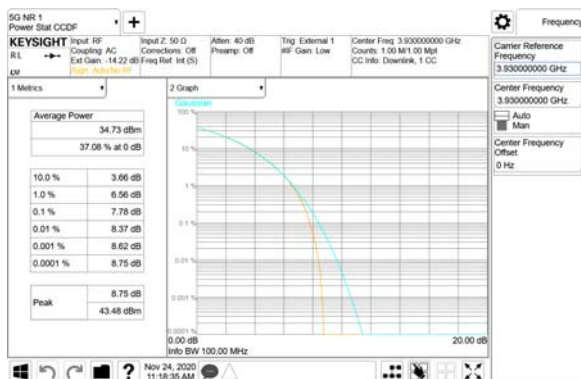
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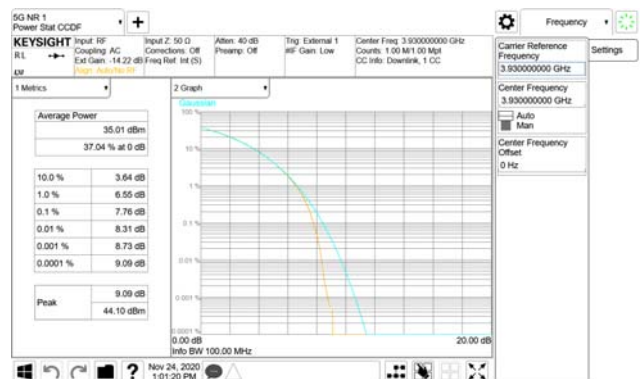
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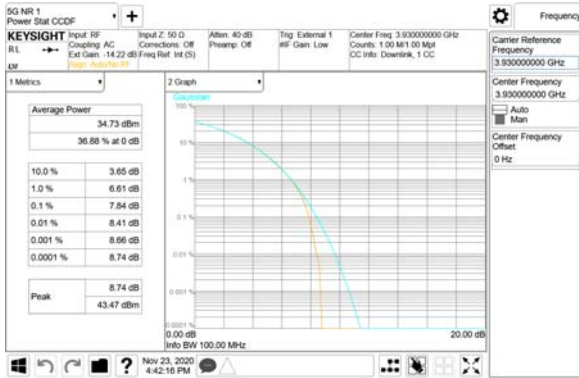


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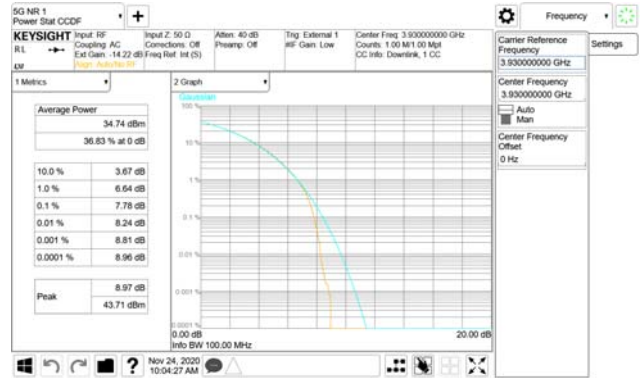
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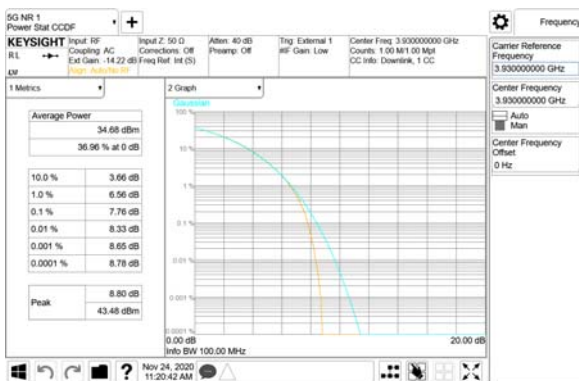
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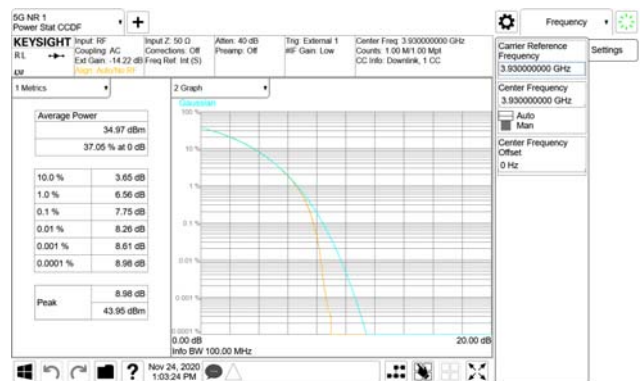
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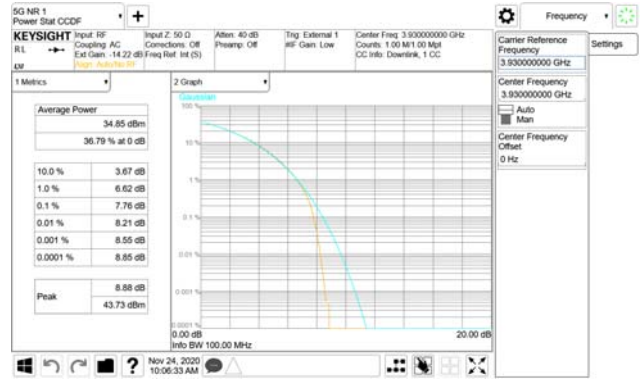
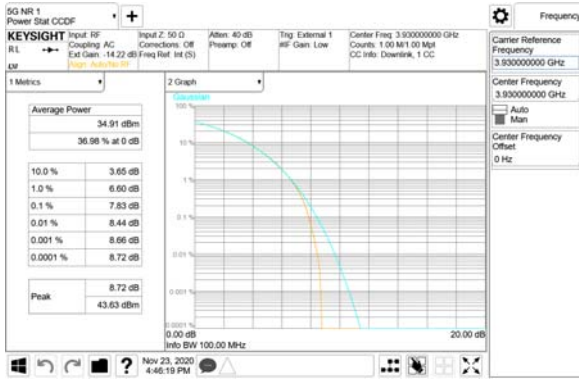
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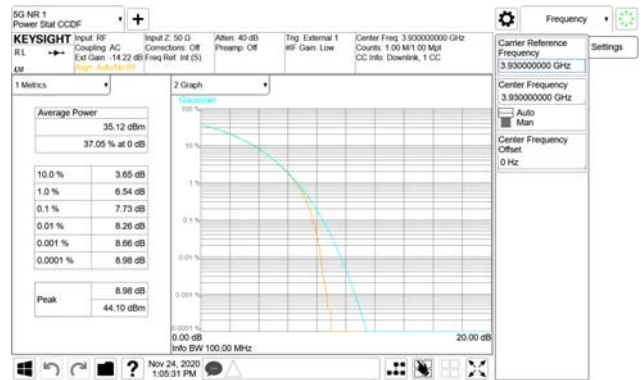
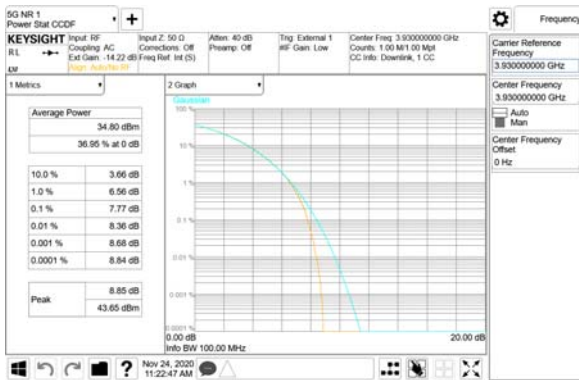
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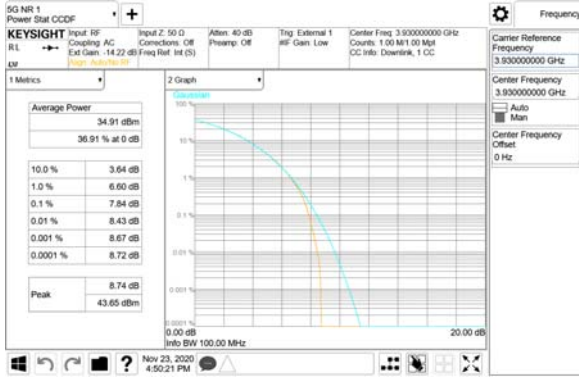


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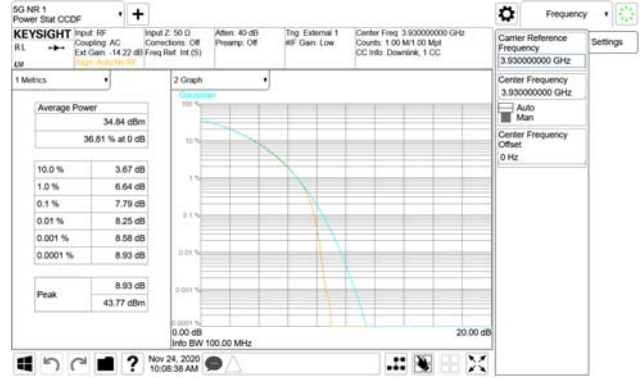
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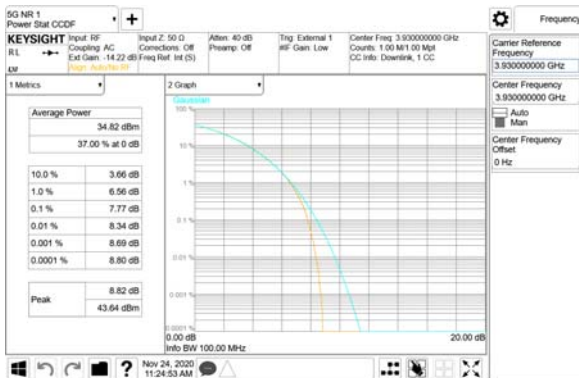
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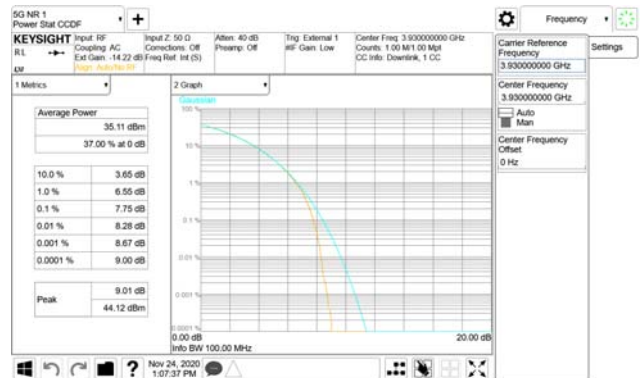
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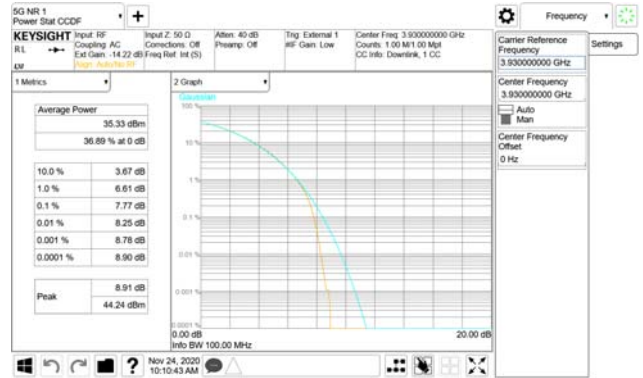
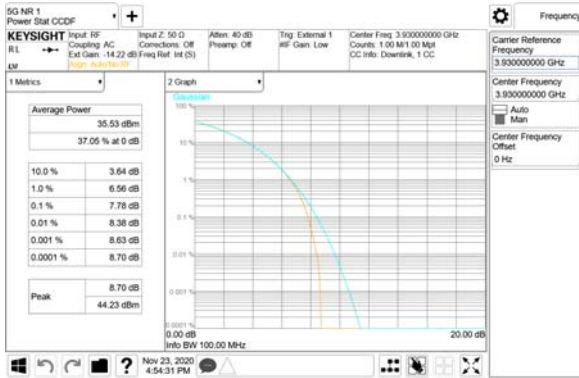
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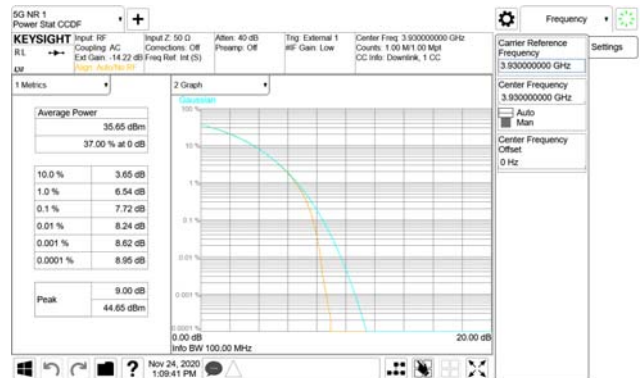
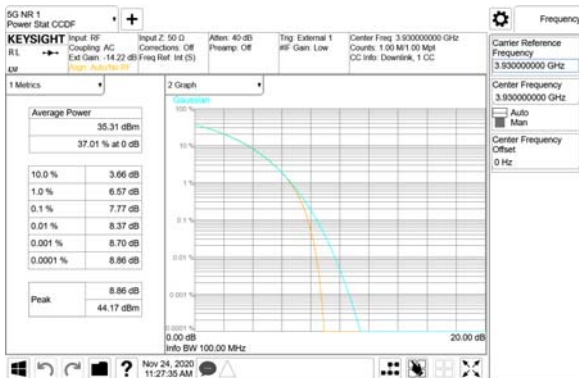
QPSK

16QAM



64QAM

256QAM



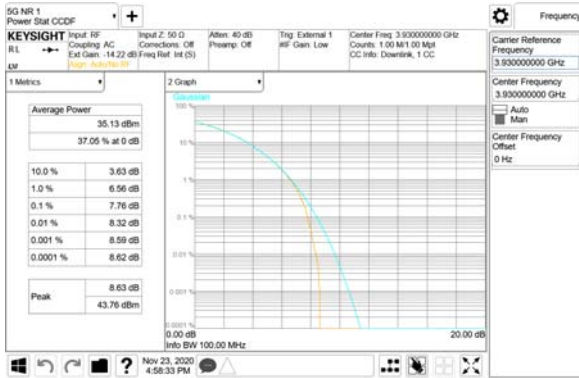


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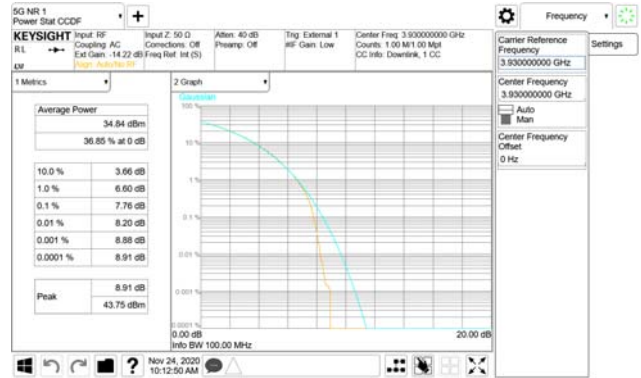
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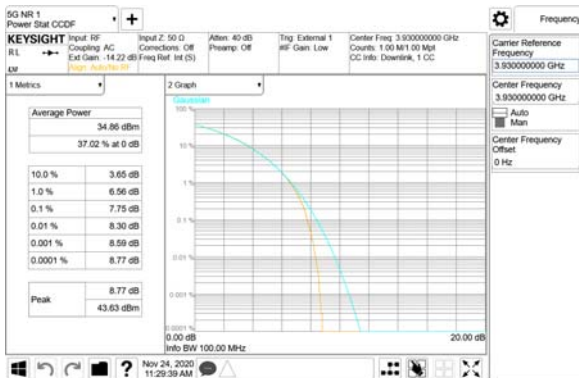
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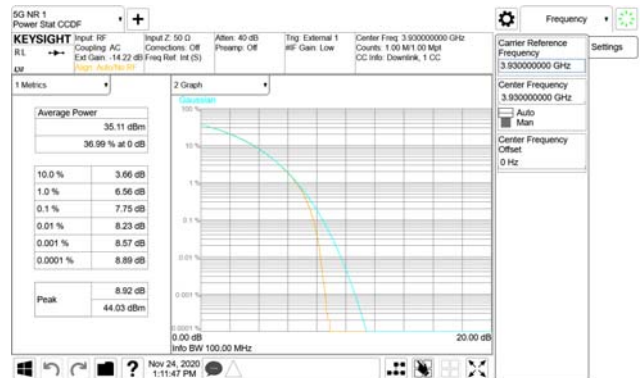
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64QAM



256QAM



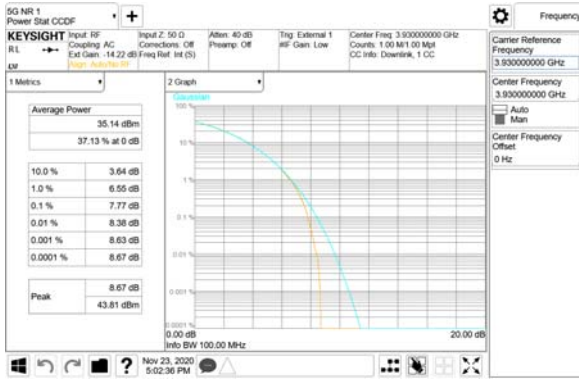


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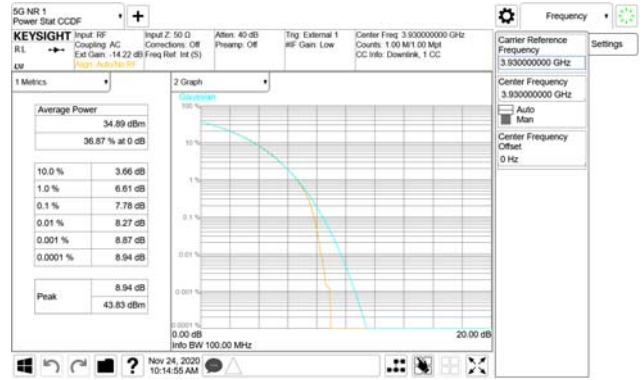
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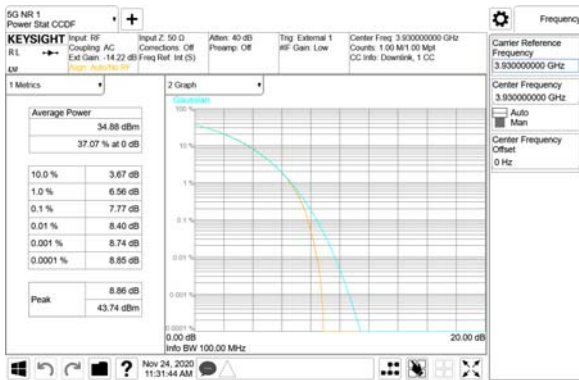
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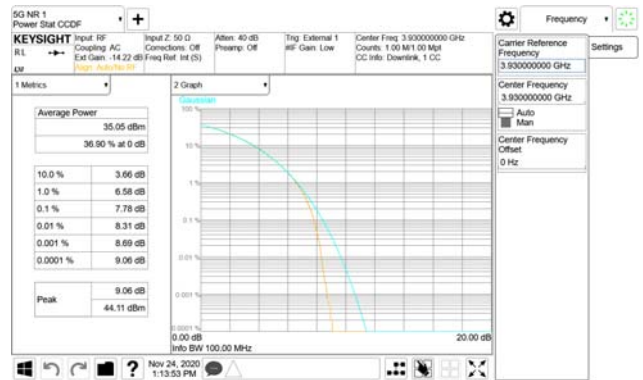
16QAM



64QAM



256QAM



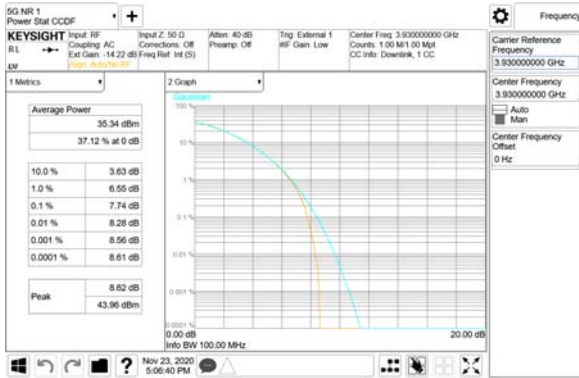


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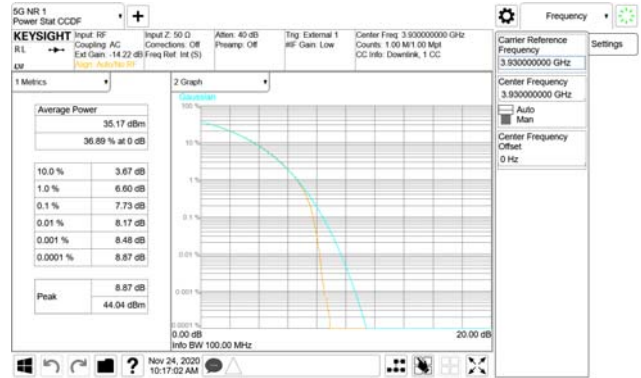
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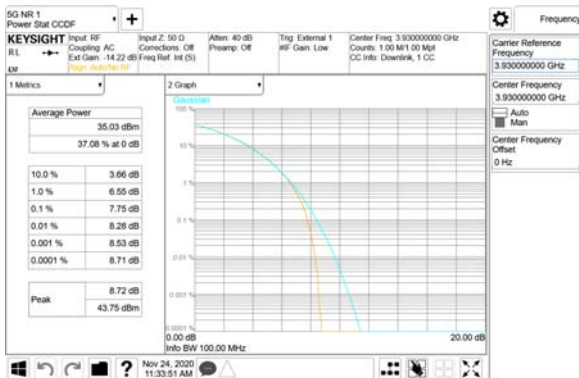
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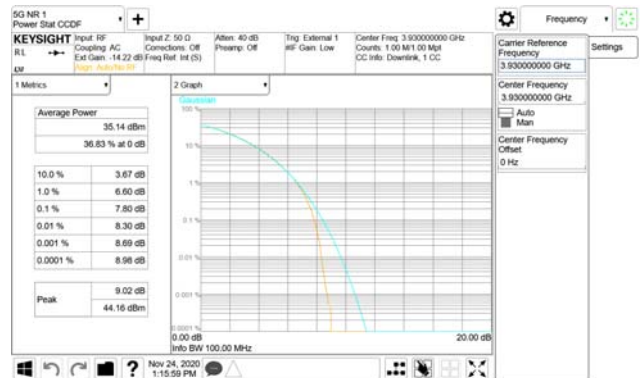
16QAM



64QAM



256QAM



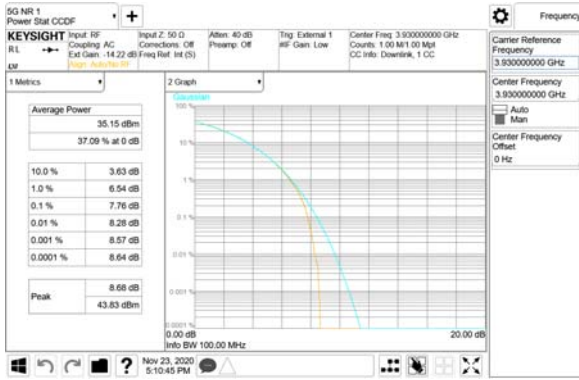


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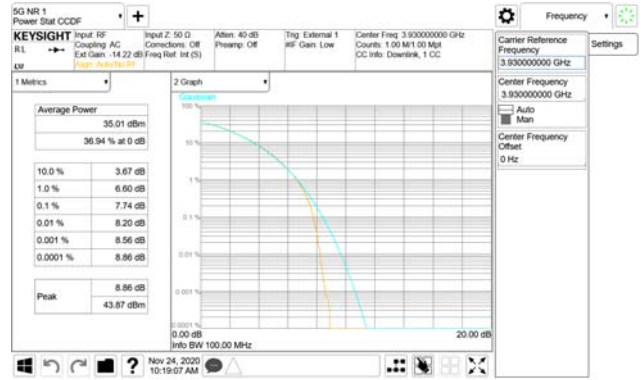
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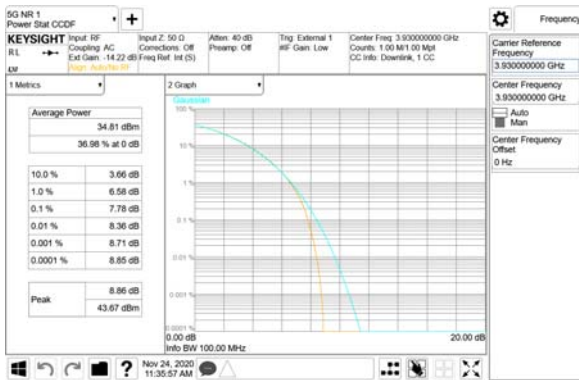
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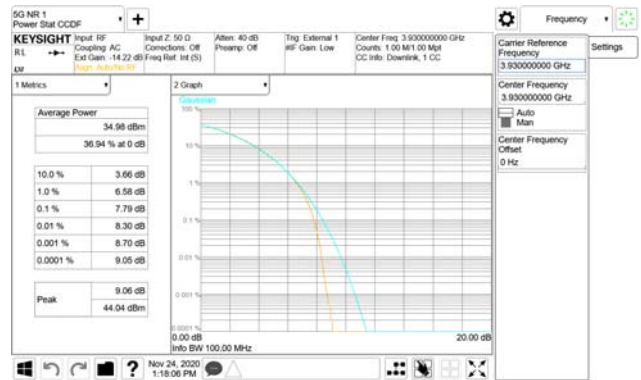
16QAM



64QAM



256QAM



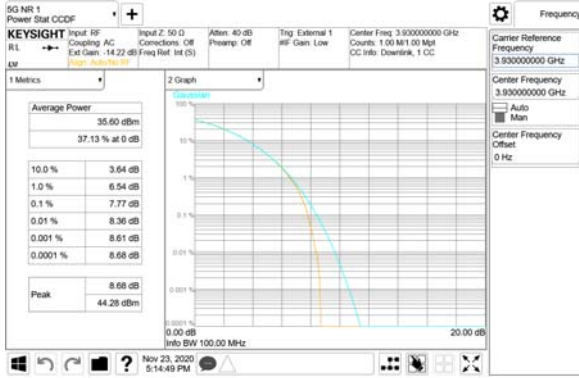


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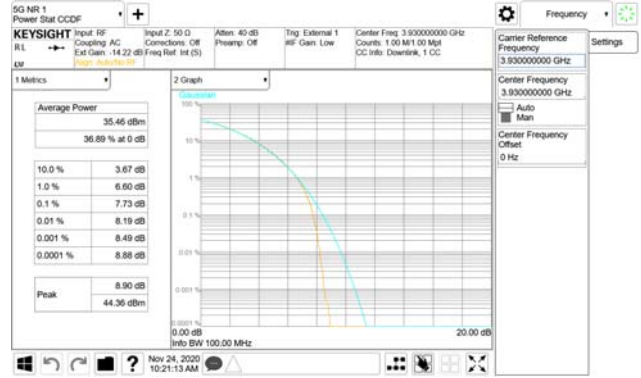
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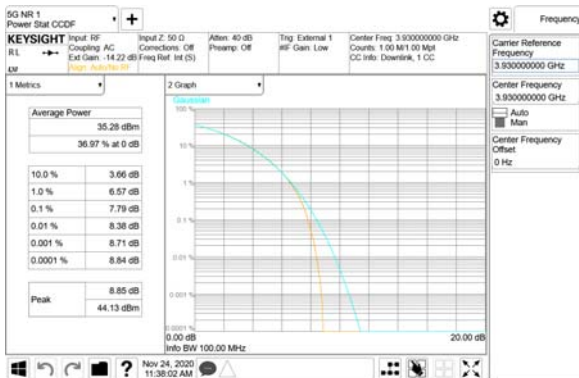
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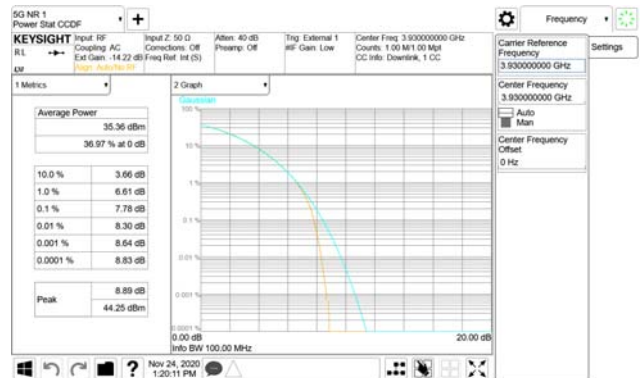
16QAM



64QAM



256QAM





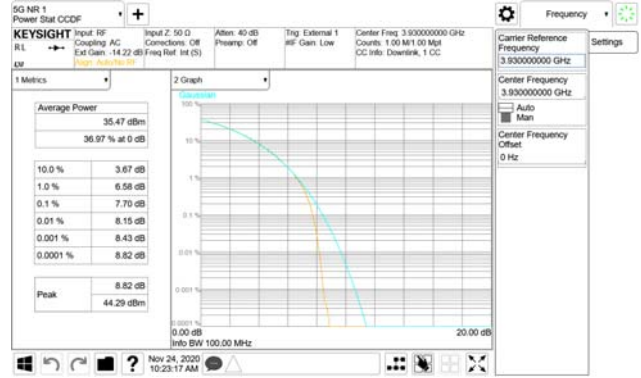
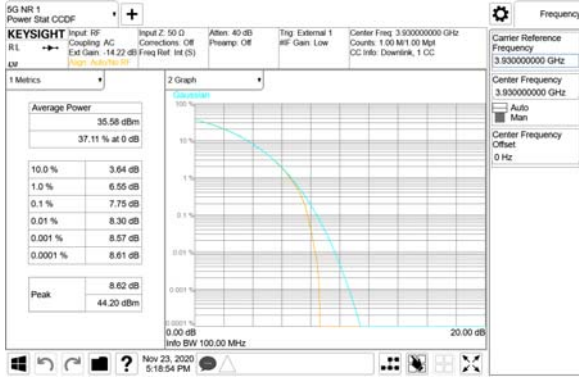
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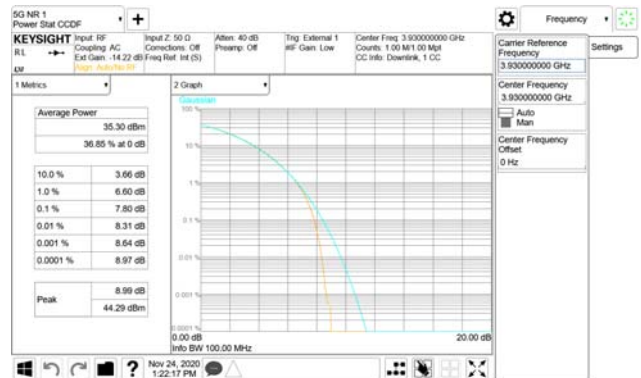
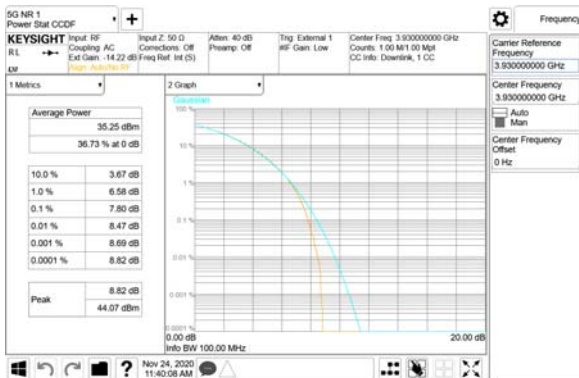
QPSK

16QAM



64QAM

256QAM



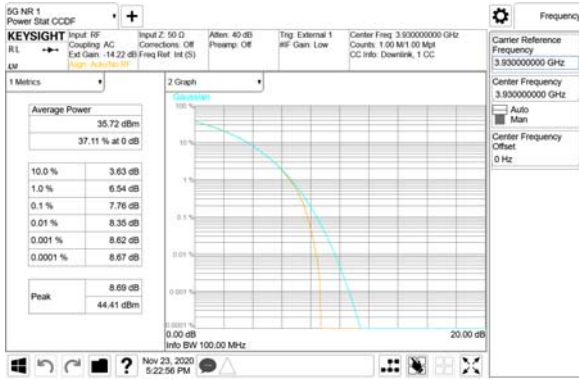


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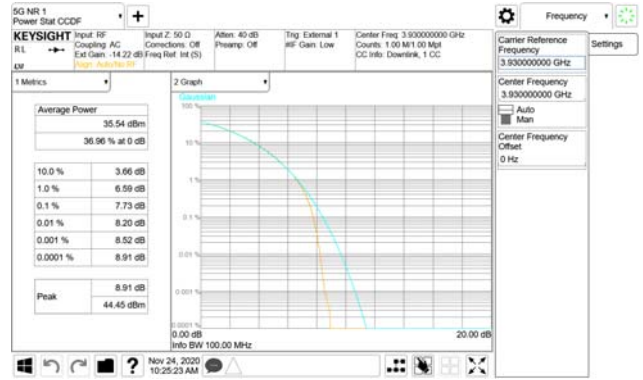
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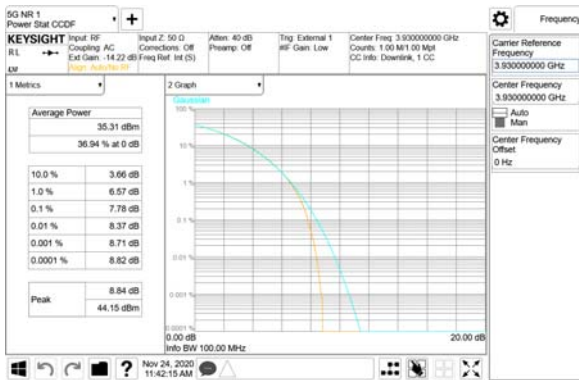
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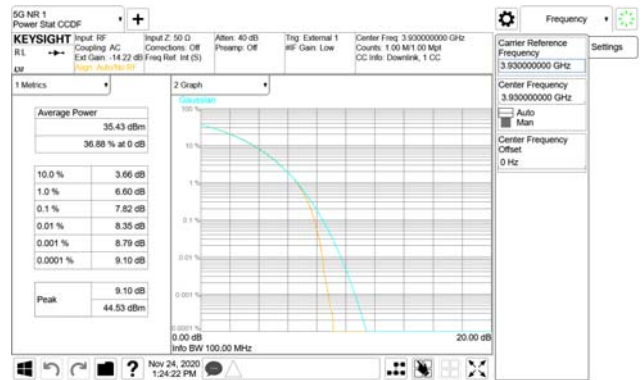
16QAM



64QAM



256QAM



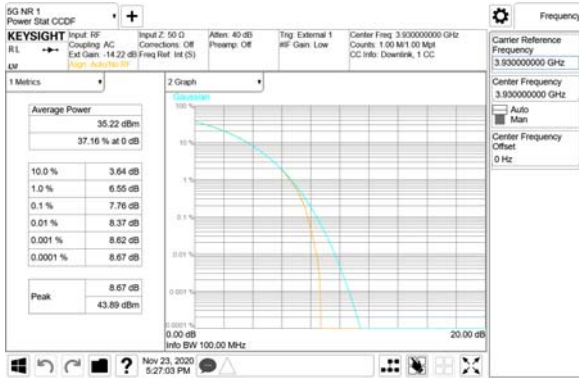


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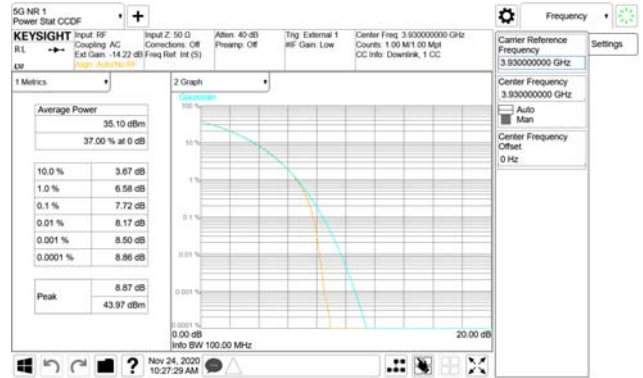
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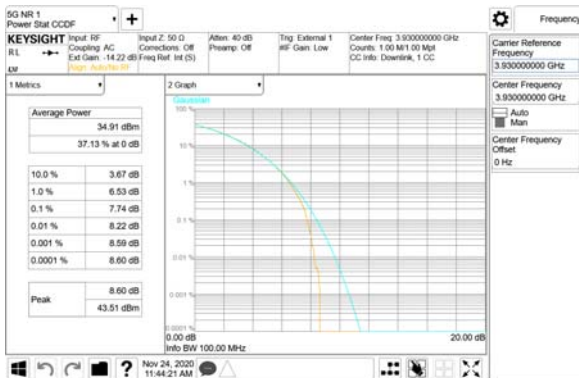
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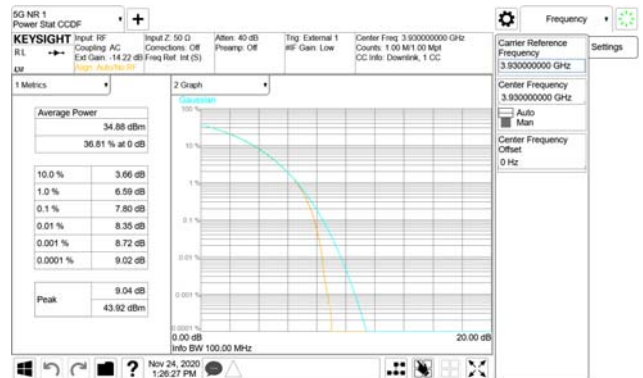
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64QAM



256QAM



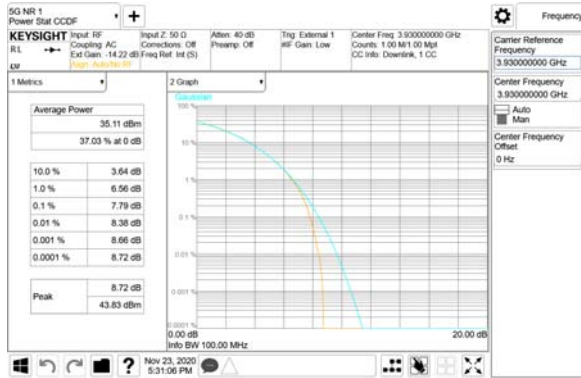


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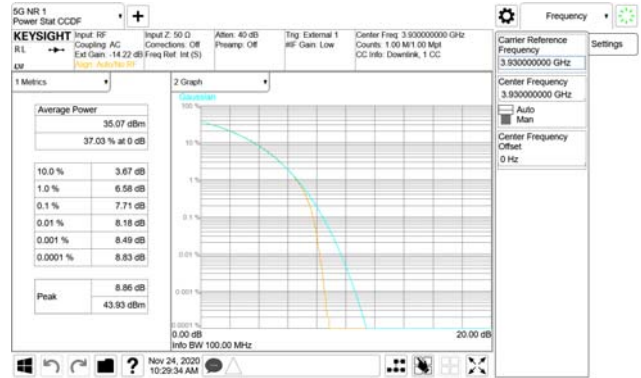
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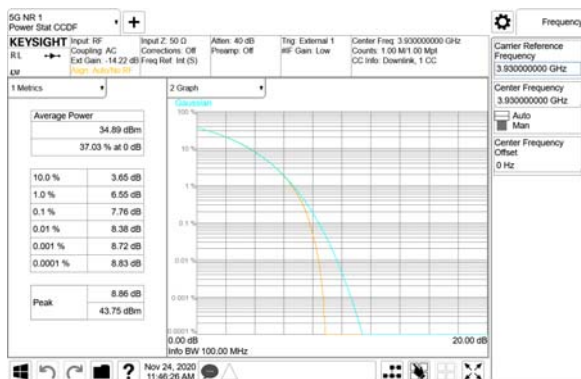
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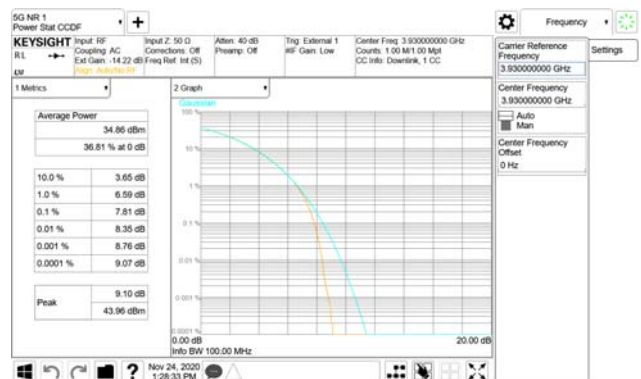
16QAM



64QAM



256QAM



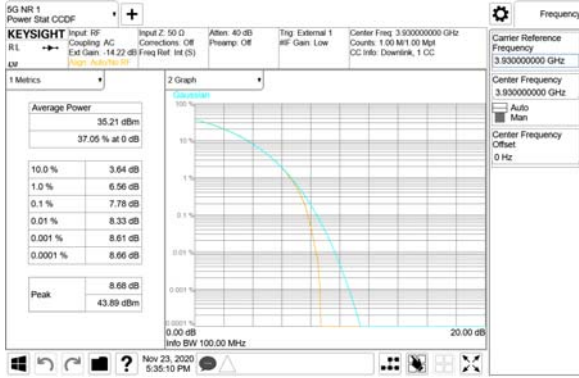


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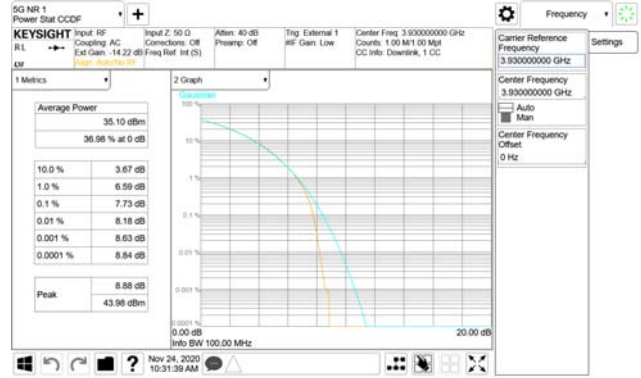
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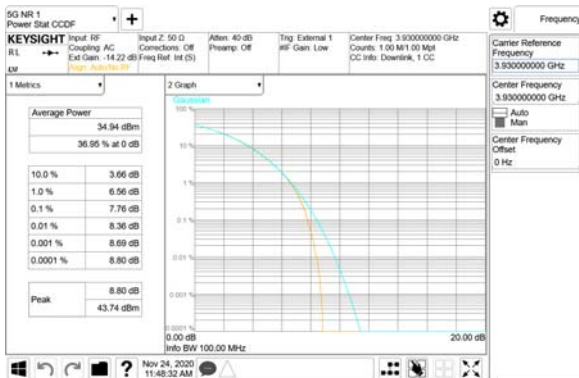
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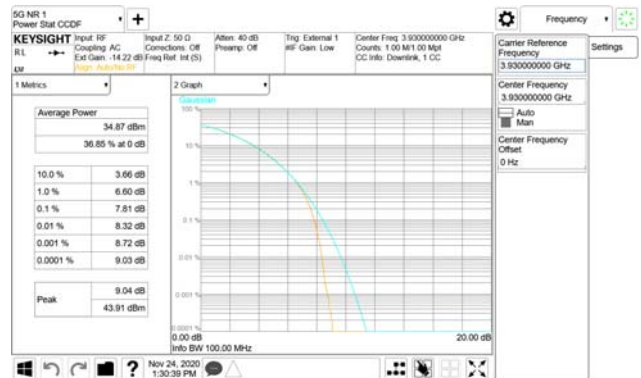
16QAM



64QAM



256QAM



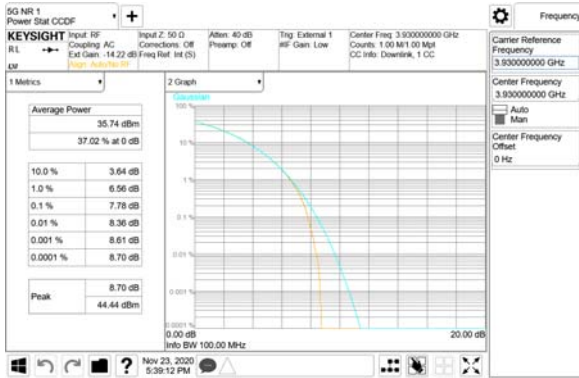


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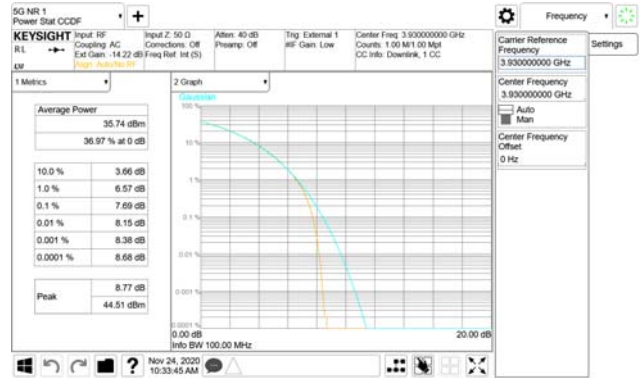
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ANT64

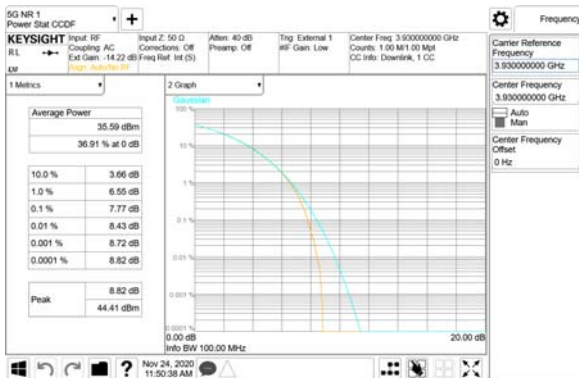
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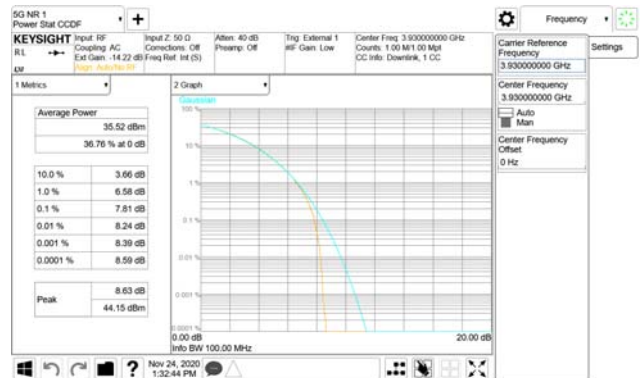
16QAM



64QAM



256QAM



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5. Occupied Bandwidth

Test Requirements :

§ 2.1049 Measurements required : Occupied bandwidth

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049(a) through (i) as applicable.

Test Procedures :

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. The EUT was connected to a spectrum analyzer enabled with an occupied bandwidth in accordance with FCC Part 2.1049. The occupied bandwidth was measured from the fundamental emission at the bottom, middle and top channels. The occupied bandwidth was measured using the built in occupied bandwidth function of the spectrum analyzer. It was set to measure the bandwidth where 99% of the signal power was contained. The analyzer automatically configures the measurement bandwidths to make an accurate measurement based on the channel bandwidth and channel spacing of the EUT.



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Test Results :

Test Data : BW 100MHz, Single carrier

Channel position(Bottom)

Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
1	97.39	97.38	97.52	97.13
2	97.38	97.40	97.37	97.13
3	97.39	97.40	97.45	97.14
4	97.40	97.41	97.45	97.13
5	97.40	97.41	97.55	97.14
6	97.40	97.41	97.55	97.13
7	97.39	97.40	97.51	97.13
8	97.40	97.41	97.53	97.14
9	97.40	97.41	97.53	97.13
10	97.39	97.40	97.52	97.12
11	97.38	97.40	97.55	97.13
12	97.39	97.40	97.56	97.13
13	97.39	97.39	97.56	97.14
14	97.39	97.28	97.56	97.14
15	97.38	97.37	97.54	97.13
16	97.39	97.39	97.56	97.14
17	97.39	97.38	97.54	97.12
18	97.39	97.39	97.56	97.13
19	97.39	97.40	97.56	97.13
20	97.39	97.40	97.55	97.13
321	97.39	97.40	97.56	97.13
22	97.38	97.39	97.54	97.13
23	97.39	97.40	97.55	97.13
24	97.39	97.40	97.55	97.13
25	97.39	97.40	97.56	97.13
26	97.36	97.37	97.49	97.09
27	97.38	97.40	97.54	97.13
28	97.39	97.41	97.55	97.14
29	97.39	97.41	97.55	97.13
30	97.38	97.40	97.53	97.12
31	97.39	97.41	97.54	97.13
32	97.39	97.40	97.54	97.13
33	97.40	97.41	97.50	97.14
34	97.39	97.40	97.55	97.14
35	97.39	97.40	97.55	97.13
36	97.39	97.41	97.55	97.13
37	97.40	97.41	97.52	97.14
38	97.39	97.40	97.53	97.13
39	97.39	97.40	97.53	97.14
40	97.40	97.41	97.55	97.14
41	97.41	97.42	97.58	97.15
42	97.40	97.41	97.58	97.14
43	97.40	97.41	97.58	97.14
44	97.40	97.40	97.58	97.13
45	97.39	97.38	97.54	97.13
46	97.40	97.31	97.56	97.13
47	97.40	97.38	97.57	97.14
48	97.39	97.38	97.54	97.13
49	97.40	97.40	97.56	97.14
50	97.39	97.39	97.55	97.13
51	97.38	97.37	97.53	97.13
52	97.39	97.39	97.55	97.13
53	97.39	97.39	97.51	97.14
54	97.39	97.40	97.50	97.14
55	97.40	97.41	97.53	97.14



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Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
56	97.39	97.40	97.51	97.14
57	97.40	97.40	97.52	97.14
58	97.39	97.39	97.49	97.13
59	97.40	97.41	97.54	97.14
60	97.40	97.41	97.52	97.14
61	97.38	97.39	97.49	97.13
62	97.40	97.41	97.52	97.14
63	97.39	97.40	97.51	97.13
64	97.40	97.41	97.53	97.15



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Channel position(Middle)

Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
1	97.49	97.50	97.58	97.05
2	97.49	97.49	97.58	97.06
3	97.51	97.49	97.58	97.05
4	97.48	97.46	97.57	97.04
5	97.51	97.50	97.59	97.06
6	97.53	97.50	97.57	97.05
7	97.52	97.50	97.59	97.06
8	97.51	97.50	97.58	97.05
9	97.52	97.49	97.58	97.06
10	97.51	97.49	97.58	97.06
11	97.50	97.49	97.58	97.05
12	97.53	97.50	97.58	97.04
13	97.42	97.50	97.58	97.05
14	97.51	97.48	97.57	97.04
15	97.51	97.40	97.58	97.04
16	97.52	97.44	97.57	97.03
17	97.51	97.48	97.58	97.05
18	97.53	97.49	97.57	97.04
19	97.52	97.48	97.58	97.04
20	97.53	97.49	97.58	97.04
21	97.51	97.48	97.58	97.04
22	97.42	97.49	97.57	97.03
23	97.53	97.49	97.58	97.04
24	97.52	97.50	97.58	97.05
25	97.53	97.50	97.59	97.06
26	97.57	97.53	97.59	97.06
27	97.54	97.50	97.58	97.05
28	97.51	97.49	97.58	97.05
29	97.54	97.51	97.58	97.05
30	97.54	97.50	97.57	97.04
31	97.53	97.50	97.58	97.04
32	97.52	97.50	97.59	97.06
33	97.44	97.48	97.58	97.05
34	97.47	97.48	97.59	97.06
35	97.48	97.48	97.60	97.07
36	97.45	97.48	97.59	97.06
37	97.48	97.49	97.58	97.05
38	97.48	97.50	97.60	97.08
39	97.48	97.49	97.59	97.07
40	97.46	97.48	97.59	97.06
41	97.46	97.46	97.57	97.04
42	97.48	97.48	97.60	97.08
43	97.48	97.48	97.57	97.04
44	97.47	97.49	97.59	97.06
45	97.47	97.48	97.60	97.08
46	97.47	97.47	97.59	97.07
47	97.48	97.51	97.59	97.07
48	97.47	97.52	97.59	97.06
49	97.47	97.48	97.58	97.06
50	97.46	97.47	97.59	97.07
51	97.47	97.48	97.58	97.05
52	97.48	97.48	97.59	97.06
53	97.47	97.47	97.59	97.06
54	97.44	97.47	97.58	97.05
55	97.46	97.49	97.59	97.06



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Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
56	97.45	97.48	97.57	97.04
57	97.46	97.49	97.58	97.04
58	97.46	97.48	97.58	97.06
59	97.45	97.47	97.58	97.05
60	97.45	97.49	97.59	97.06
61	97.47	97.49	97.58	97.05
62	97.46	97.48	97.59	97.06
63	97.46	97.49	97.59	97.06
64	97.44	97.48	97.59	97.05



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Channel position(Top)

Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
1	97.40	97.37	97.36	97.37
2	97.46	97.39	97.38	97.39
3	97.33	97.38	97.33	97.38
4	97.48	97.42	97.39	97.42
5	97.47	97.40	97.38	97.40
6	97.47	97.39	97.38	97.39
7	97.41	97.39	97.36	97.39
8	97.49	97.43	97.42	97.43
9	97.48	97.42	97.40	97.42
10	97.37	97.38	97.35	97.38
11	97.39	97.39	97.35	97.39
12	97.32	97.36	97.34	97.36
13	97.44	97.41	97.37	97.41
14	97.46	97.41	97.38	97.41
15	97.31	97.36	97.32	97.36
16	97.22	97.33	97.27	97.33
17	97.37	97.37	97.35	97.37
18	97.48	97.41	97.39	97.41
19	97.44	97.39	97.37	97.39
20	97.50	97.43	97.42	97.43
21	97.47	97.40	97.39	97.40
22	97.43	97.40	97.37	97.40
23	97.42	97.39	97.37	97.39
24	97.45	97.41	97.38	97.41
25	97.48	97.41	97.39	97.41
26	97.40	97.37	97.36	97.37
27	97.41	97.39	97.36	97.39
28	97.40	97.40	97.36	97.40
29	97.42	97.40	97.37	97.40
30	97.28	97.36	97.31	97.36
31	97.46	97.40	97.41	97.40
32	97.33	97.37	97.34	97.37
33	97.46	97.41	97.41	97.41
34	97.47	97.43	97.43	97.43
35	97.43	97.41	97.39	97.41
36	97.46	97.42	97.43	97.42
37	97.46	97.41	97.42	97.41
38	97.47	97.42	97.42	97.42
39	97.47	97.42	97.40	97.42
40	97.47	97.43	97.44	97.43
41	97.49	97.43	97.41	97.43
42	97.44	97.40	97.41	97.40
43	97.44	97.42	97.39	97.42
44	97.43	97.39	97.39	97.39
45	97.45	97.40	97.41	97.40
46	97.46	97.41	97.42	97.41
47	97.47	97.41	97.41	97.41
48	97.46	97.40	97.40	97.40
49	97.42	97.39	97.38	97.39
50	97.46	97.40	97.41	97.40
51	97.38	97.37	97.36	97.37
52	97.43	97.39	97.38	97.39
53	97.31	97.37	97.35	97.37
54	97.46	97.42	97.43	97.42
55	97.38	97.38	97.38	97.38



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Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
56	97.44	97.40	97.43	97.40
57	97.45	97.40	97.40	97.40
58	97.36	97.37	97.36	97.37
59	97.47	97.41	97.41	97.41
60	97.26	97.35	97.33	97.35
61	97.31	97.37	97.34	97.37
62	97.24	97.34	97.31	97.34
63	97.45	97.40	97.39	97.40
64	97.36	97.37	97.37	97.37



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Test Data : Multi carrier(Contiguous)

Channel position(Bottom)

Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
1	196.00	195.60	195.74	195.25
2	195.92	195.54	195.71	195.24
3	195.99	195.58	195.73	195.24
4	196.00	195.56	195.74	195.24
5	196.02	195.59	195.74	195.27
6	196.03	195.60	195.74	195.32
7	196.00	195.60	195.73	195.31
8	196.00	195.58	195.72	195.28
9	196.03	195.61	195.73	195.32
10	196.00	195.60	195.72	195.31
11	196.00	195.58	195.71	195.30
12	196.02	195.61	195.73	195.31
13	195.98	195.57	195.71	195.30
14	195.97	195.57	195.71	195.29
15	195.97	195.57	195.71	195.30
16	195.98	195.57	195.71	195.28
17	196.04	195.64	195.75	195.32
18	195.99	195.58	195.72	195.28
19	195.98	195.58	195.72	195.29
20	195.96	195.58	195.71	195.28
21	196.02	195.59	195.72	195.29
22	195.99	195.54	195.70	195.25
23	196.01	195.60	195.73	195.30
24	195.98	195.55	195.71	195.28
25	196.00	195.59	195.72	195.30
26	195.88	195.51	195.67	195.23
27	195.93	195.55	195.69	195.27
28	195.96	195.58	195.71	195.29
29	195.98	195.58	195.71	195.29
30	195.93	195.55	195.69	195.27
31	195.98	195.58	195.72	195.29
32	195.98	195.58	195.71	195.29
33	196.09	195.63	195.76	195.33
34	196.07	195.56	195.75	195.33
35	196.05	195.53	195.74	195.31
36	196.06	195.53	195.74	195.31
37	196.05	195.55	195.74	195.30
38	196.04	195.56	195.74	195.32
39	196.01	195.54	195.73	195.30
40	196.03	195.55	195.74	195.32
41	196.05	195.59	195.75	195.35
42	196.05	195.59	195.73	195.33
43	196.03	195.56	195.72	195.30
44	196.06	195.57	195.73	195.31
45	195.99	195.53	195.69	195.28
46	196.02	195.53	195.70	195.28
47	196.05	195.56	195.72	195.30
48	196.05	195.56	195.71	195.29
49	196.05	195.54	195.72	195.30
50	196.07	195.56	195.73	195.33
51	196.03	195.52	195.70	195.29
52	196.06	195.55	195.72	195.31
53	196.04	195.54	195.71	195.31
54	196.05	195.55	195.72	195.30
55	196.11	195.60	195.75	195.35



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Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
56	196.02	195.53	195.71	195.30
57	196.03	195.56	195.72	195.31
58	196.03	195.55	195.71	195.32
59	196.05	195.57	195.72	195.31
60	196.00	195.54	195.71	195.29
61	195.92	195.50	195.69	195.26
62	196.03	195.56	195.72	195.30
63	196.03	195.54	195.71	195.29
64	196.05	195.56	195.73	195.32



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Channel position(Middle)

Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
1	196.23	195.76	195.92	195.45
2	196.18	195.70	195.92	195.44
3	196.16	195.66	195.89	195.42
4	196.15	195.66	195.93	195.43
5	196.19	195.72	195.92	195.44
6	196.23	195.73	195.93	195.46
7	196.21	195.71	195.91	195.44
8	196.24	195.74	195.92	195.45
9	196.26	195.73	195.95	195.47
10	196.19	195.66	195.94	195.45
11	196.15	195.65	195.92	195.43
12	196.20	195.69	195.97	195.46
13	196.22	195.68	195.92	195.44
14	196.22	195.71	195.90	195.44
15	196.19	195.67	195.90	195.44
16	196.20	195.69	195.93	195.45
17	196.22	195.72	195.93	195.45
18	196.20	195.69	195.93	195.44
19	196.24	195.72	195.92	195.44
20	196.22	195.71	195.91	195.43
21	196.18	195.67	195.89	195.42
22	196.17	195.65	195.91	195.43
23	196.24	195.73	195.90	195.42
24	196.20	195.68	195.88	195.42
25	196.24	195.70	195.92	195.45
26	196.23	195.71	195.93	195.45
27	196.23	195.71	195.90	195.43
28	196.19	195.67	195.89	195.42
29	196.18	195.68	195.93	195.44
30	196.14	195.62	195.92	195.42
31	196.28	195.77	195.90	195.46
32	196.20	195.68	195.93	195.44
33	196.37	195.94	195.96	195.55
34	196.37	195.86	195.96	195.54
35	196.32	195.79	195.91	195.49
36	196.34	195.82	195.90	195.49
37	196.33	195.82	195.93	195.51
38	196.35	195.83	195.94	195.53
39	196.28	195.76	195.89	195.44
40	196.33	195.83	195.88	195.52
41	196.32	195.78	195.91	195.48
42	196.36	195.82	195.93	195.51
43	196.33	195.77	195.95	195.49
44	196.33	195.80	195.93	195.51
45	196.34	195.80	195.93	195.50
46	196.35	195.82	195.91	195.51
47	196.35	195.80	195.93	195.50
48	196.36	195.84	195.95	195.52
49	196.34	195.80	195.92	195.52
50	196.34	195.82	195.93	195.52
51	196.34	195.81	195.92	195.52
52	196.35	195.84	195.92	195.53
53	196.33	195.80	195.90	195.51
54	196.32	195.79	195.90	195.49
55	196.37	195.83	195.94	195.54



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Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
56	196.38	195.86	195.93	195.56
57	196.36	195.81	195.95	195.52
58	196.37	195.83	195.94	195.51
59	196.34	195.79	195.92	195.50
60	196.34	195.80	195.92	195.50
61	196.34	195.80	195.94	195.49
62	196.34	195.80	195.93	195.50
63	196.40	195.85	195.99	195.55
64	196.30	195.83	195.96	195.51



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Channel position(Top)

Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
1	196.02	194.81	195.95	195.36
2	196.03	194.90	195.97	195.39
3	195.99	194.74	195.89	195.33
4	196.03	194.84	195.96	195.39
5	196.03	194.85	195.92	195.38
6	196.05	194.84	195.98	195.39
7	196.04	194.83	195.92	195.37
8	196.07	194.89	195.99	195.42
9	196.06	194.90	195.99	195.42
10	196.01	194.81	195.92	195.36
11	196.03	194.78	195.96	195.36
12	196.04	194.79	195.97	195.37
13	196.03	194.82	195.92	195.37
14	196.04	194.84	195.98	195.39
15	196.02	194.76	195.95	195.35
16	195.95	194.66	195.87	195.27
17	196.01	194.78	195.94	195.34
18	196.07	194.86	195.99	195.41
19	196.03	194.82	195.95	195.36
20	196.08	194.93	195.97	195.40
21	196.04	194.83	195.96	195.38
22	196.04	194.82	195.93	195.34
23	196.04	194.81	195.96	195.38
24	196.04	194.83	195.96	195.38
25	196.03	194.84	195.96	195.38
26	196.06	194.86	195.96	195.37
27	196.02	194.82	195.97	195.38
28	196.02	194.82	195.95	195.37
29	196.03	194.82	195.97	195.37
30	195.98	194.72	195.87	195.28
31	196.07	194.91	195.99	195.43
32	196.00	194.76	195.94	195.33
33	195.99	194.89	195.92	195.38
34	196.01	195.02	195.92	195.40
35	195.96	194.85	195.87	195.34
36	196.00	195.03	195.91	195.38
37	196.00	194.90	195.92	195.39
38	195.99	194.97	195.91	195.38
39	195.97	194.86	195.90	195.37
40	196.00	194.93	195.92	195.39
41	196.00	194.91	195.91	195.36
42	195.99	194.85	195.90	195.36
43	195.99	194.80	195.90	195.34
44	195.99	194.83	195.90	195.34
45	195.98	194.96	195.88	195.35
46	195.99	194.98	195.90	195.37
47	196.00	194.89	195.90	195.36
48	195.99	194.89	195.90	195.34
49	195.97	194.87	195.88	195.34
50	195.98	194.88	195.89	195.36
51	195.97	194.85	195.88	195.33
52	195.98	194.89	195.90	195.36
53	195.95	194.79	195.85	195.31
54	196.01	195.06	195.90	195.37
55	195.98	194.86	195.89	195.33



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Antenna port	Occupied Bandwidth(MHz)			
	Modulation Type			
	QPSK	16QAM	64QAM	256QAM
56	196.02	195.30	195.91	195.39
57	195.99	194.87	195.89	195.33
58	195.97	194.81	195.87	195.29
59	196.00	194.89	195.89	195.34
60	195.93	194.76	195.83	195.26
61	195.96	194.76	195.89	195.29
62	195.93	194.73	195.84	195.26
63	195.99	194.86	195.88	195.34
64	195.97	194.79	195.88	195.29



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Test Data : Multi carrier(Non-contiguous)

Antenna port	Occupied Bandwidth(MHz)							
	Modulation Type							
	QPSK		16QAM		64QAM		256QAM	
	1st FA CC0	2nd FA CC1	1st FA CC0	2nd FA CC1	1st FA CC0	2nd FA CC1	1st FA CC0	2nd FA CC1
1	97.25	97.09	97.34	97.12	97.45	97.21	97.09	96.86
2	97.21	97.11	97.30	97.17	97.44	97.23	97.08	96.87
3	97.26	97.29	97.34	97.12	97.45	97.21	97.09	96.88
4	97.29	97.12	97.35	97.18	97.45	97.23	97.09	96.89
5	97.27	97.12	97.34	97.17	97.45	97.22	97.09	96.88
6	97.29	97.11	97.35	97.18	97.45	97.22	97.09	96.88
7	97.25	97.11	97.32	97.16	97.44	97.22	97.08	96.88
8	97.27	97.15	97.35	97.22	97.45	97.24	97.09	96.90
9	97.27	97.13	97.34	97.21	97.45	97.24	97.08	96.89
10	97.25	97.10	97.32	97.13	97.44	97.21	97.08	96.88
11	97.23	97.10	97.31	97.14	97.44	97.21	97.07	96.88
12	97.29	97.09	97.32	97.12	97.44	97.21	97.08	96.86
13	97.25	97.12	97.32	97.17	97.45	97.23	97.08	96.90
14	97.26	97.11	97.33	97.21	97.45	97.22	97.08	96.89
15	97.23	97.08	97.30	97.11	97.44	97.20	97.07	96.87
16	97.26	97.05	97.33	97.04	97.45	97.19	97.08	96.87
17	97.26	97.08	97.33	97.08	97.44	97.21	97.08	96.86
18	97.26	97.12	97.33	97.21	97.44	97.22	97.08	96.88
19	97.24	97.11	97.33	97.14	97.44	97.22	97.09	96.88
20	97.24	97.14	97.33	97.23	97.44	97.24	97.08	96.90
21	97.27	97.12	97.33	97.18	97.44	97.22	97.08	96.88
22	97.26	97.12	97.32	97.16	97.43	97.22	97.08	96.89
23	97.25	97.11	97.32	97.15	97.44	97.22	97.08	96.88
24	97.25	97.13	97.32	97.19	97.44	97.23	97.08	96.90
25	97.27	97.12	97.34	97.17	97.45	97.22	97.08	96.89
26	97.17	97.10	97.26	97.16	97.40	97.22	97.04	96.87
27	97.24	97.10	97.30	97.14	97.44	97.22	97.07	96.89
28	97.24	97.10	97.32	97.16	97.45	97.22	97.08	96.89
29	97.26	97.10	97.32	97.13	97.45	97.22	97.08	96.89
30	97.24	97.08	97.30	97.05	97.43	97.20	97.07	96.89
31	97.25	97.12	97.32	97.22	97.45	97.23	97.08	96.88
32	97.22	97.09	97.31	97.10	97.45	97.21	97.08	96.88
33	97.27	97.11	97.32	97.22	97.46	97.22	97.10	96.86
34	97.23	97.10	97.28	97.23	97.45	97.23	97.09	96.86
35	97.24	97.12	97.29	97.17	97.45	97.22	97.09	96.88
36	97.22	97.11	97.28	97.22	97.45	97.23	97.10	96.86
37	97.24	97.12	97.28	97.23	97.45	97.23	97.09	96.87
38	97.24	97.13	97.29	97.23	97.45	97.23	97.09	96.88
39	97.23	97.13	97.27	97.22	97.44	97.23	97.09	96.90
40	97.24	97.13	97.30	97.24	97.46	97.24	97.10	96.88
41	97.24	97.13	97.30	97.21	97.46	97.22	97.10	96.89
42	97.24	97.09	97.29	97.20	97.45	97.22	97.09	96.87
43	97.25	97.12	97.30	97.16	97.46	97.22	97.09	96.90
44	97.25	97.11	97.30	97.17	97.46	97.21	97.10	96.87
45	97.19	97.11	97.26	97.20	97.45	97.22	97.09	96.87
46	97.23	97.12	97.28	97.20	97.46	97.22	97.09	96.88
47	97.24	97.12	97.30	97.20	97.46	97.22	97.10	96.88
48	97.21	97.09	97.26	97.17	97.44	97.22	97.09	96.86
49	97.23	97.09	97.27	97.16	97.44	97.21	97.10	96.86
50	97.21	97.10	97.26	97.20	97.45	97.22	97.09	96.85
51	97.17	97.07	97.24	97.13	97.44	97.21	97.08	96.85
52	97.21	97.10	97.27	97.16	97.44	97.22	97.09	96.87
53	97.22	97.08	97.27	97.12	97.44	97.20	97.09	96.85
54	97.22	97.12	97.27	97.23	97.45	97.23	97.10	96.87
55	97.27	97.09	97.31	96.71	97.45	97.21	97.10	96.86



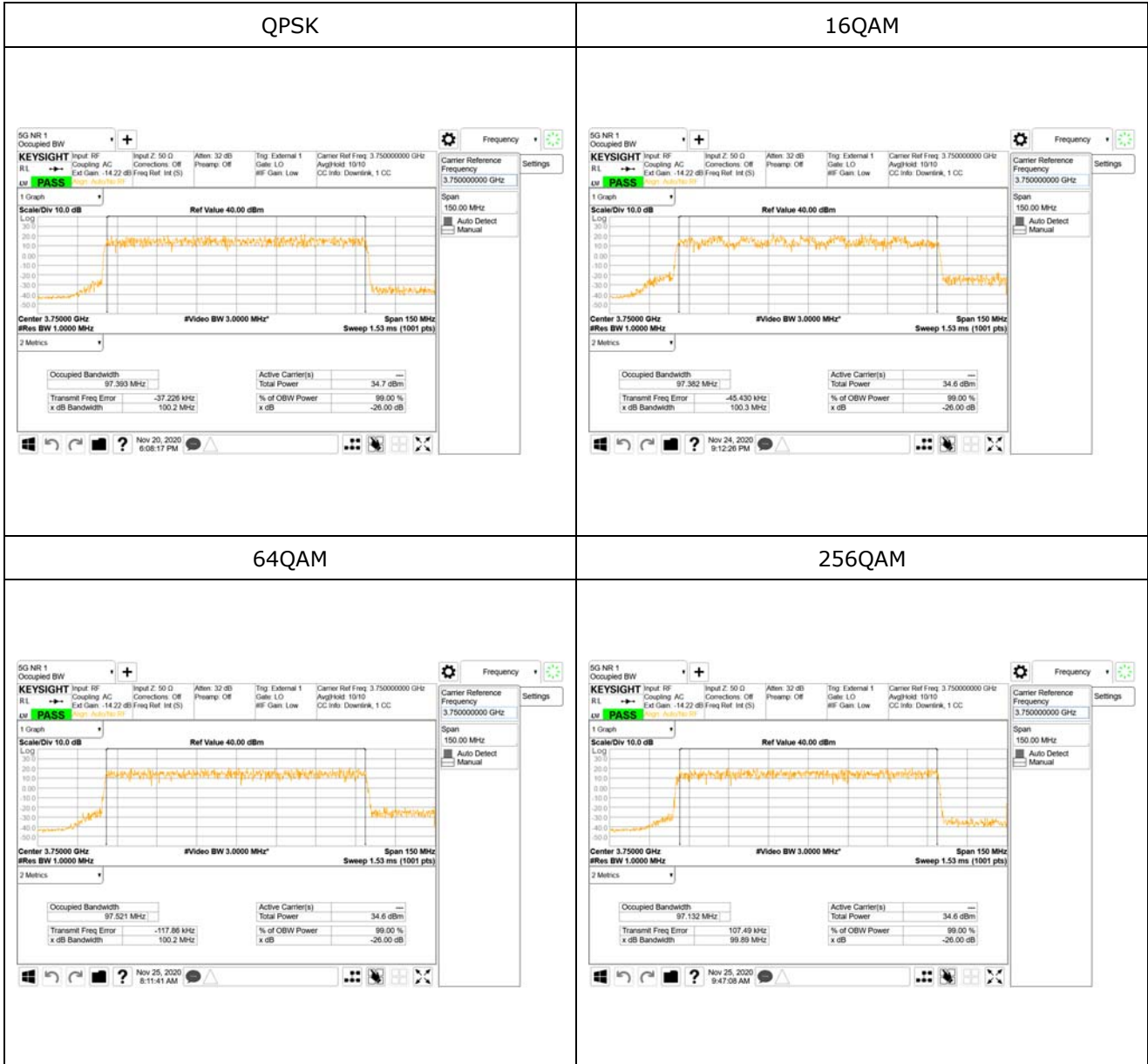
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Antenna port	Occupied Bandwidth(MHz)							
	Modulation Type							
	QPSK		16QAM		64QAM		256QAM	
	1st FA CC0	2 nd FA CC1	1st FA CC0	2 nd FA CC1	1st FA CC0	2 nd FA CC1	1st FA CC0	2 nd FA CC1
56	97.22	97.11	97.27	97.24	97.45	97.23	97.09	96.86
57	97.22	97.10	97.28	97.17	97.46	97.21	97.09	96.87
58	97.20	97.09	97.26	97.12	97.44	97.20	97.09	96.86
59	97.26	97.12	97.30	97.21	97.46	97.22	97.10	96.89
60	97.21	97.06	97.28	97.04	97.45	97.19	97.09	96.86
61	97.18	97.08	97.24	97.09	97.43	97.20	97.08	96.87
62	97.23	97.06	97.28	97.01	97.45	97.19	97.09	96.85
63	97.21	97.10	97.26	97.16	97.44	97.21	97.09	96.87
64	97.23	97.09	97.29	97.13	97.45	97.21	97.10	96.86

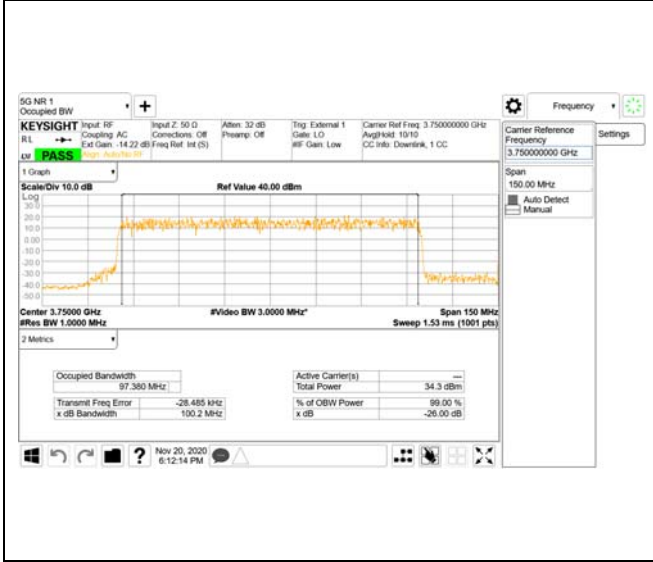


Test Plot at Occupied Bandwidth
BW 100MHz, Single carrier, Bottom
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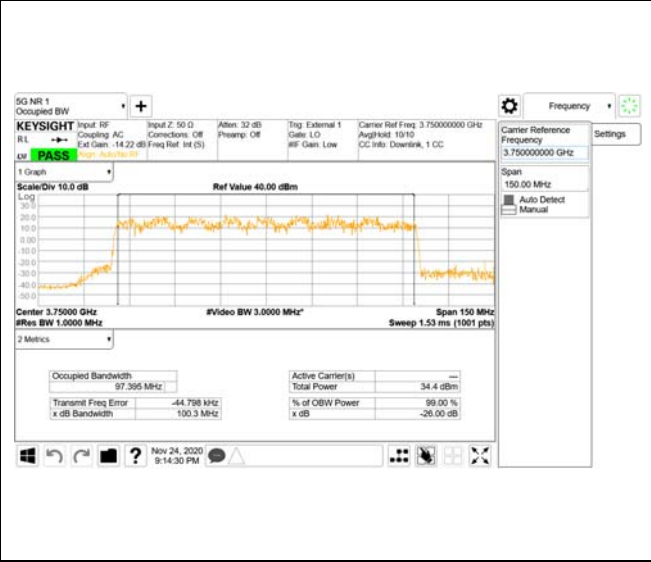


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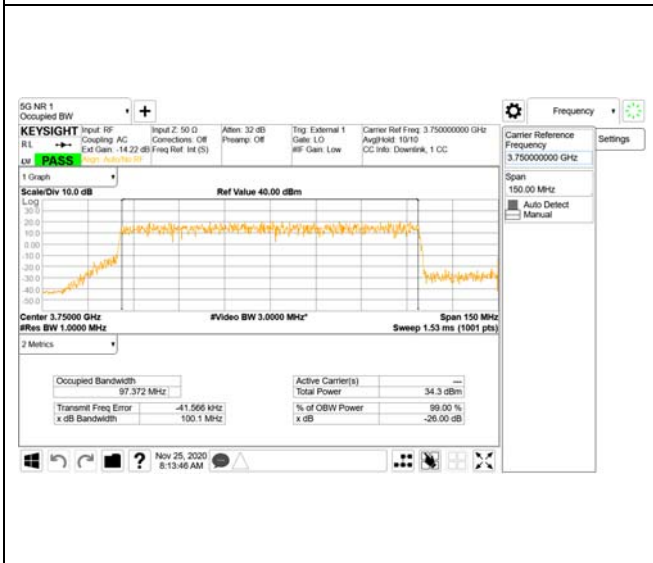
QPSK



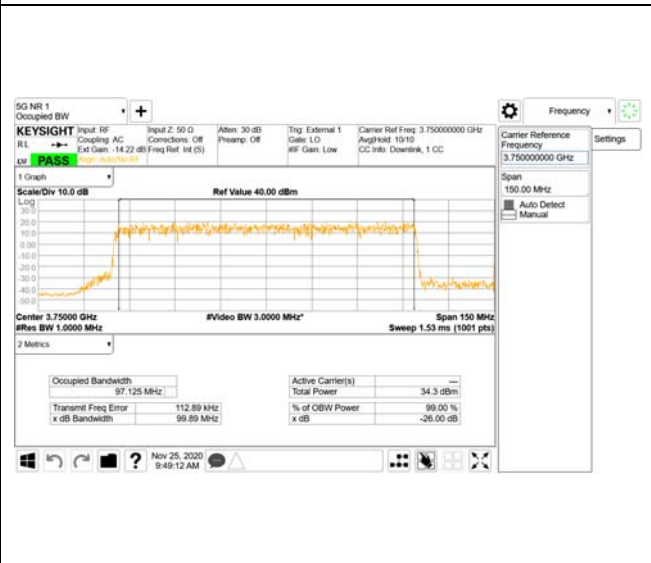
16QAM



64QAM



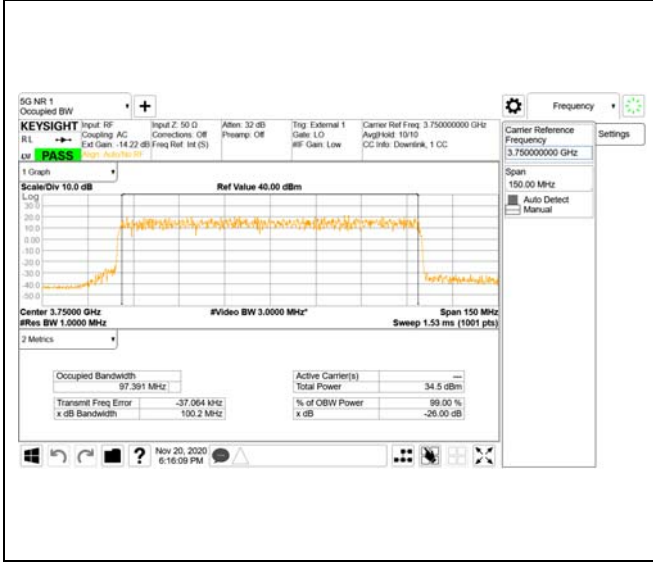
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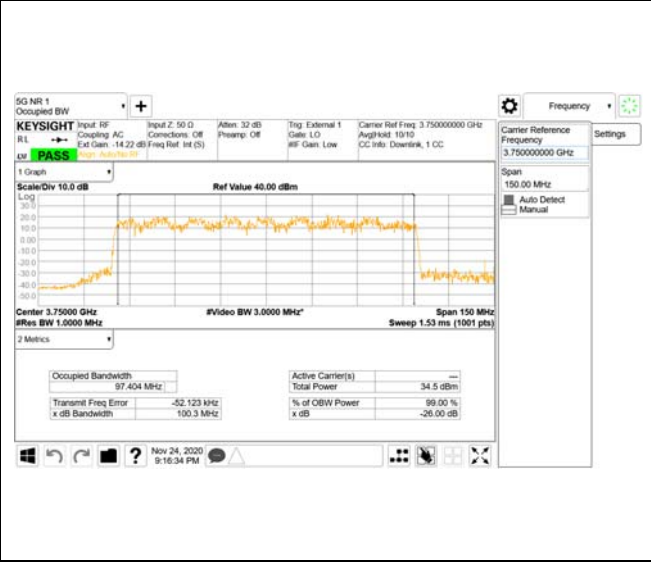


ANT3

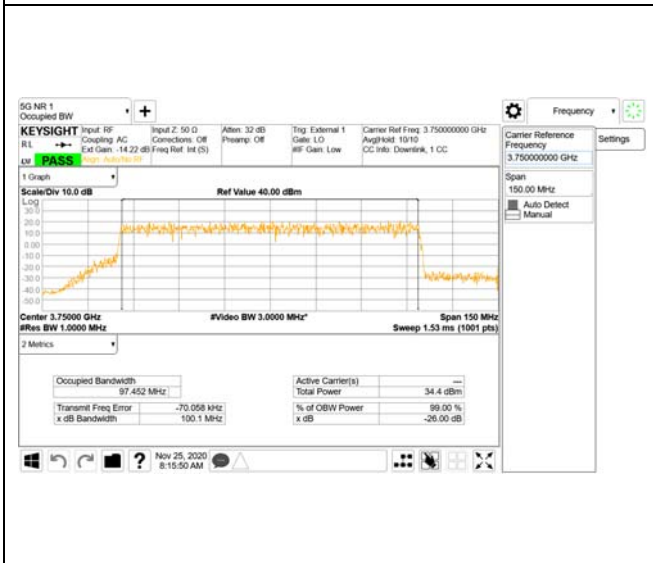
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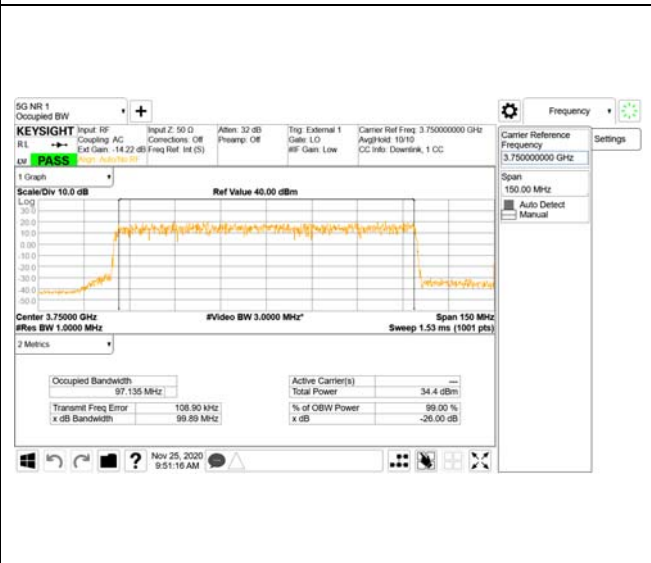
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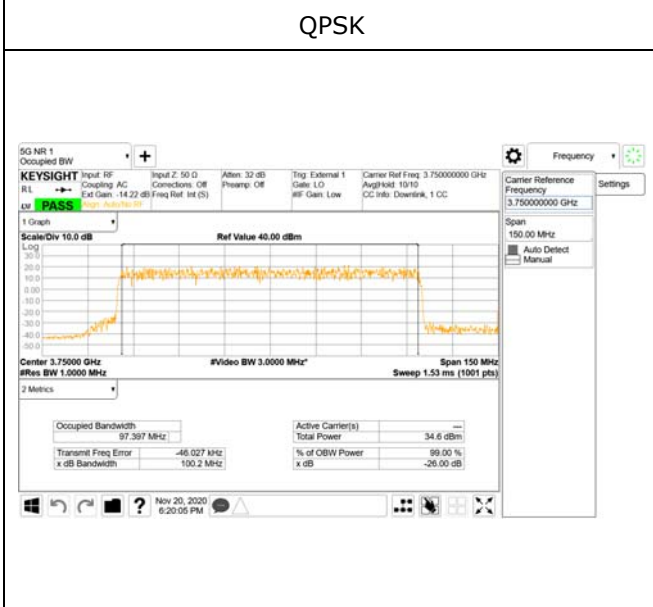


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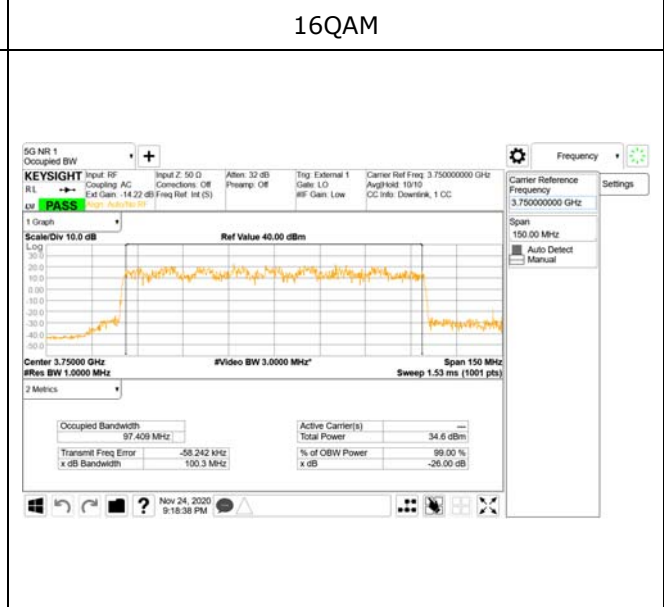
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ANT4

QPSK



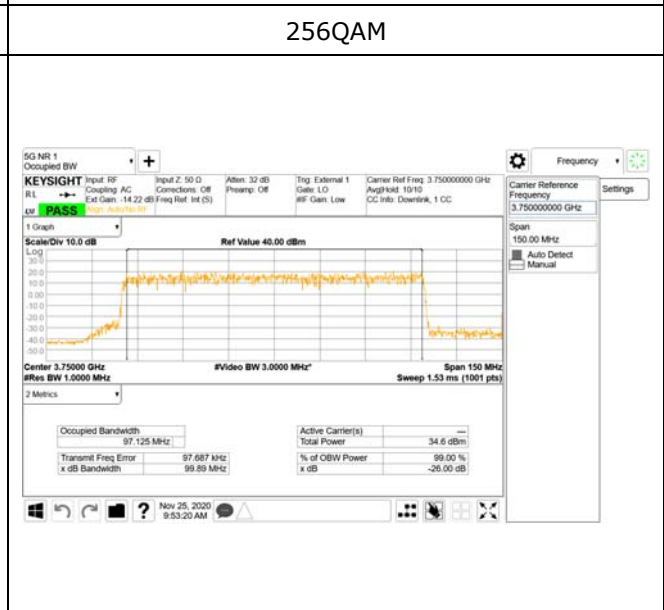
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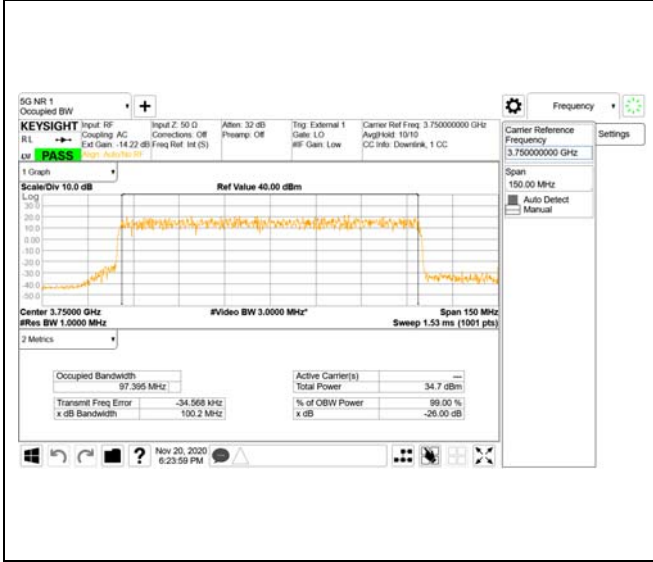


256QAM



ANT5

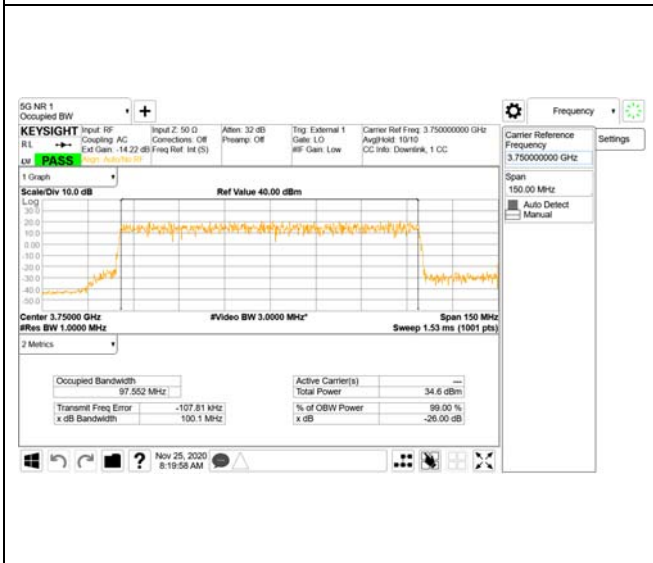
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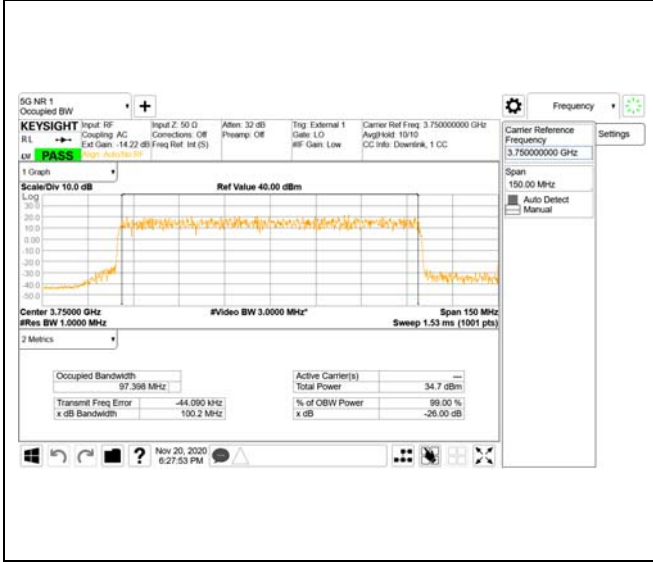
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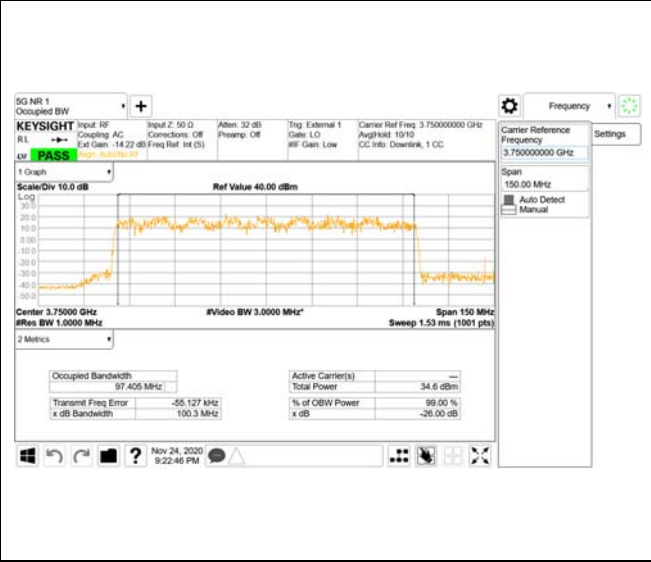


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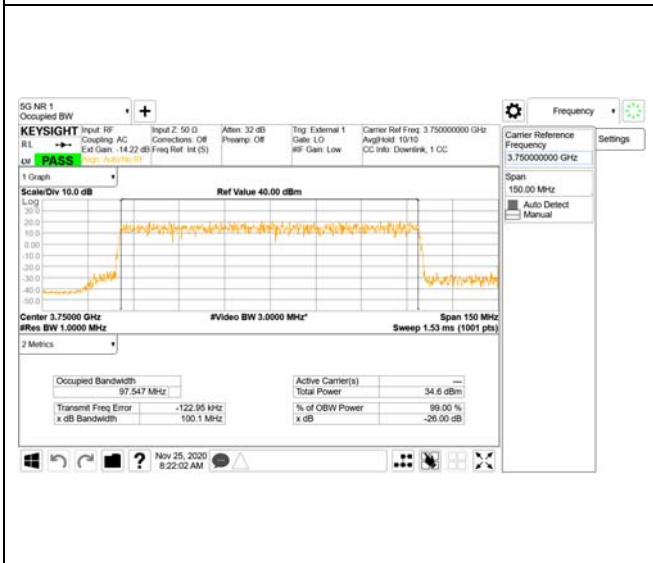
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16QAM



64QAM



256QAM



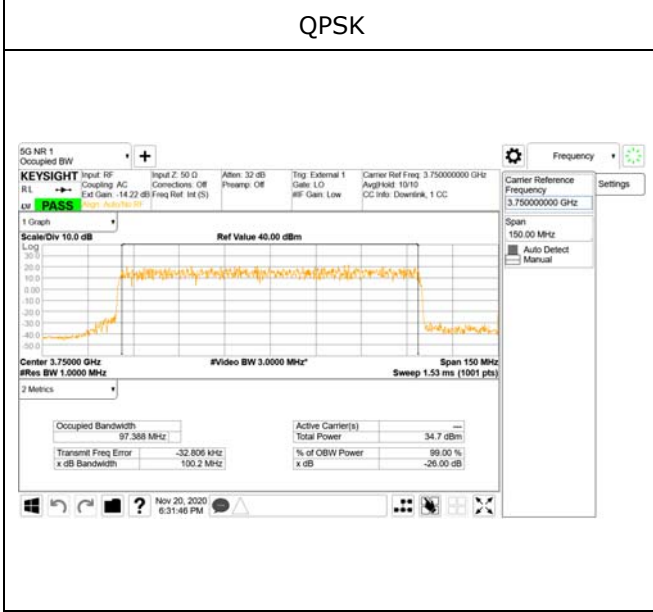


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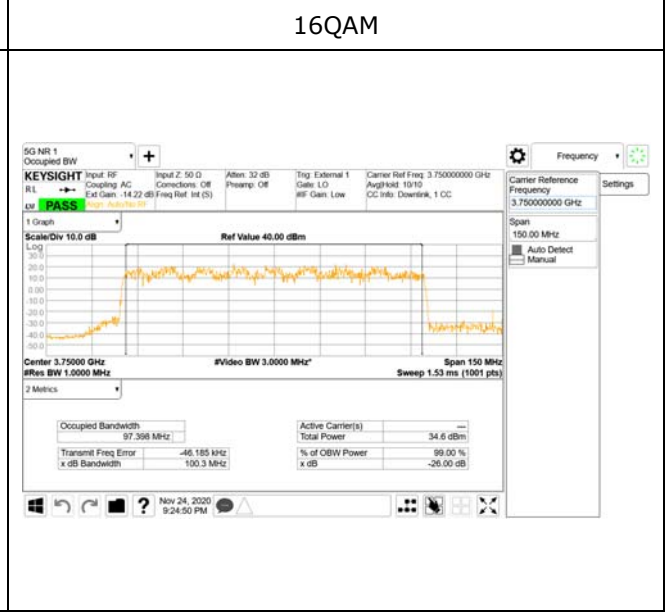
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ANT7

QPSK



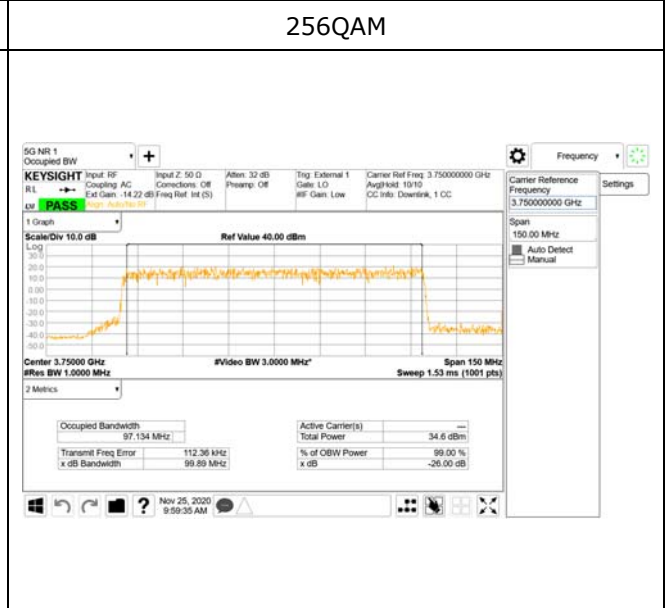
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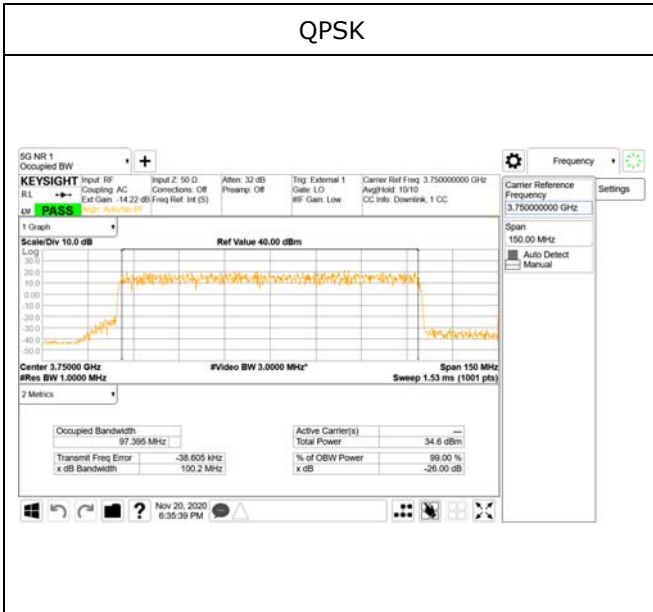


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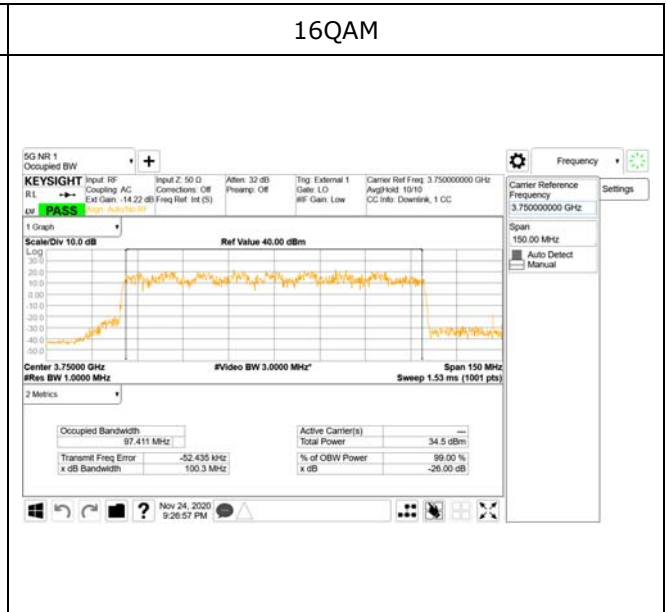
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ANT8

QPSK



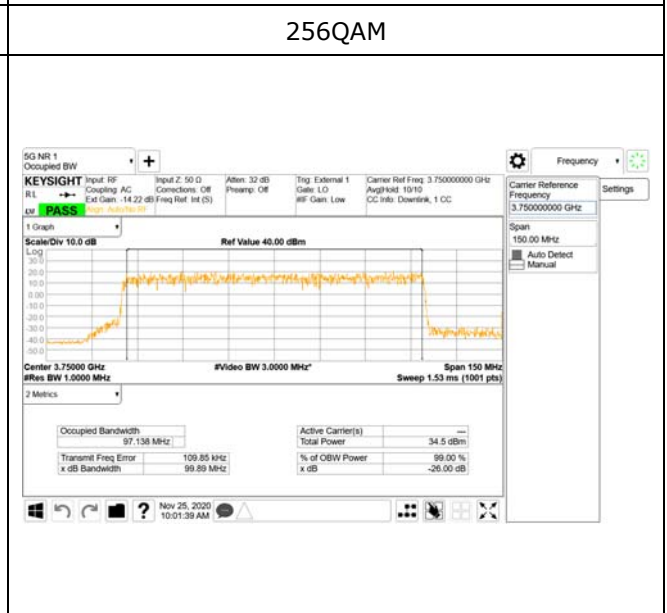
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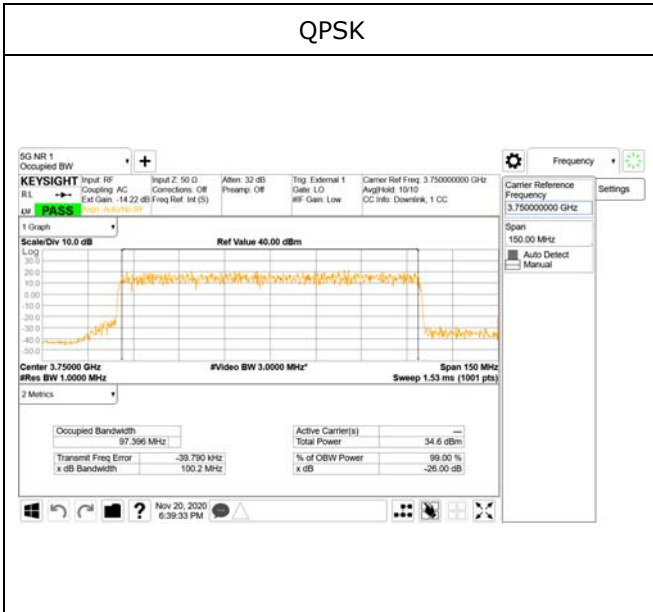
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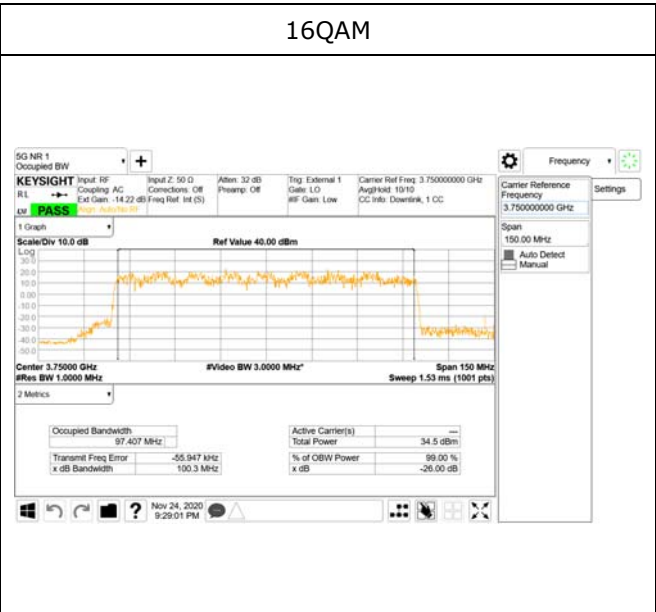


ANT9

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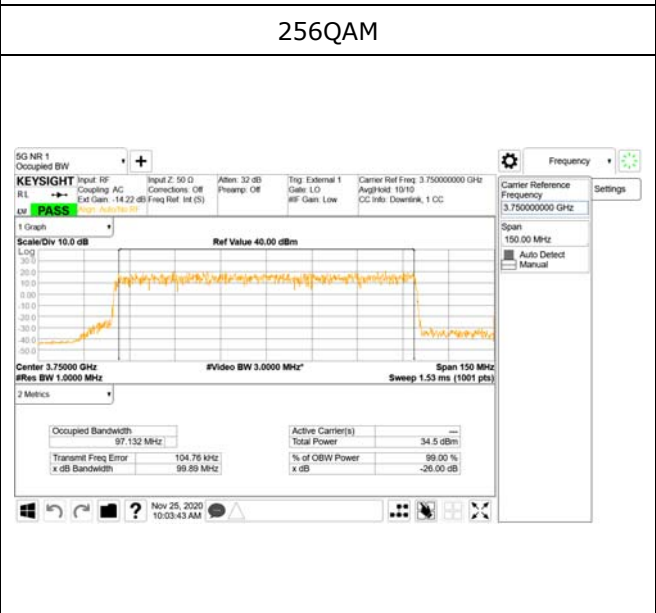
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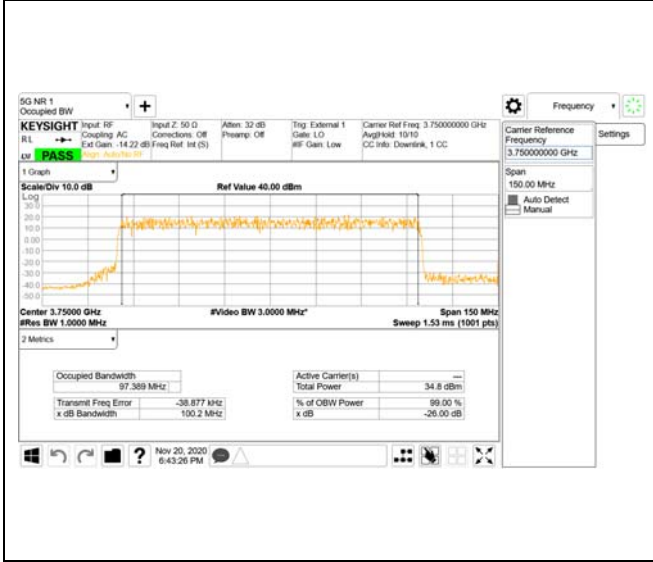


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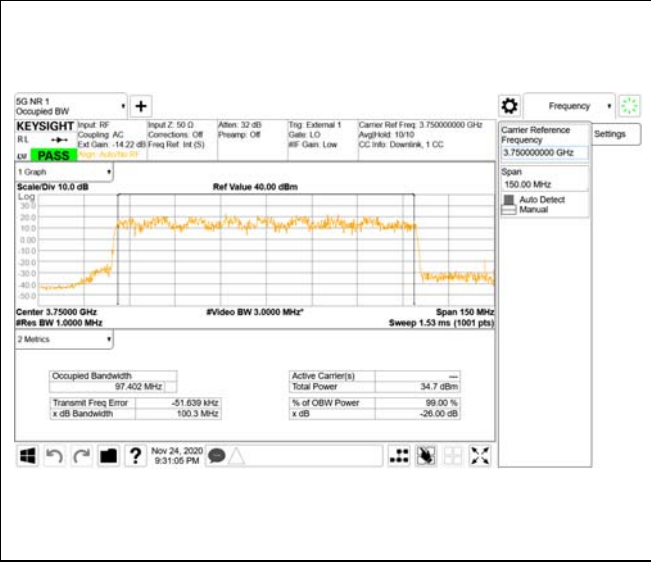


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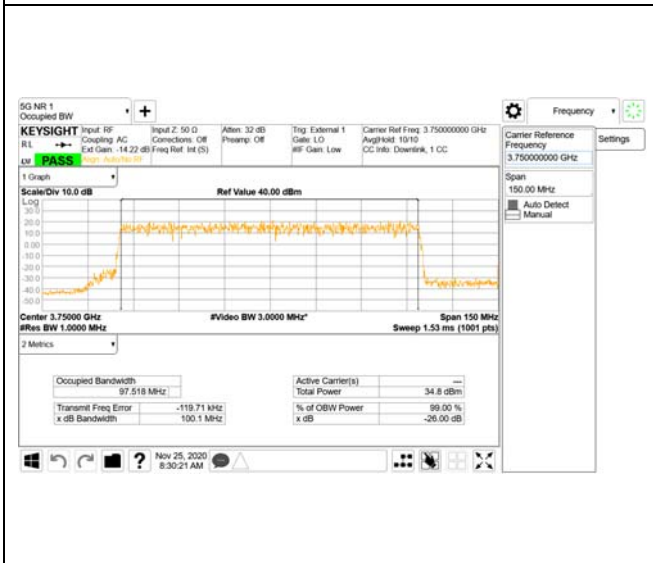
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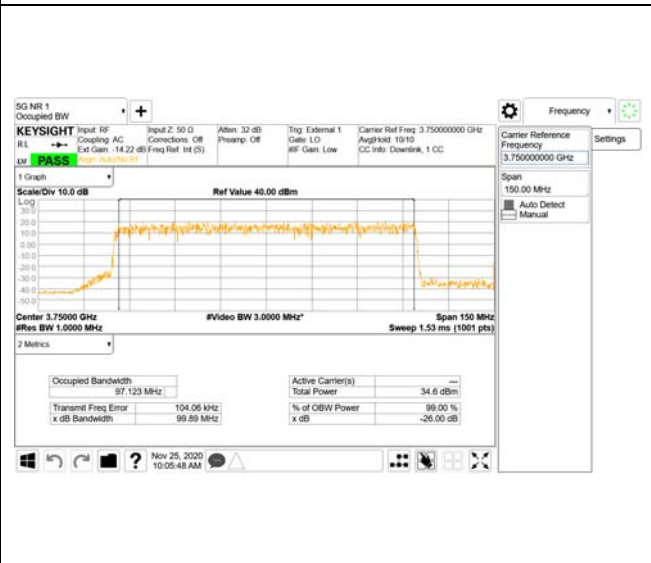
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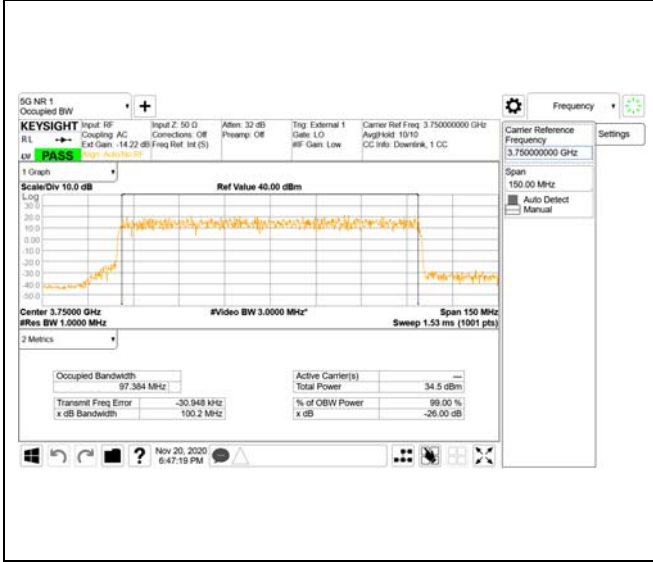


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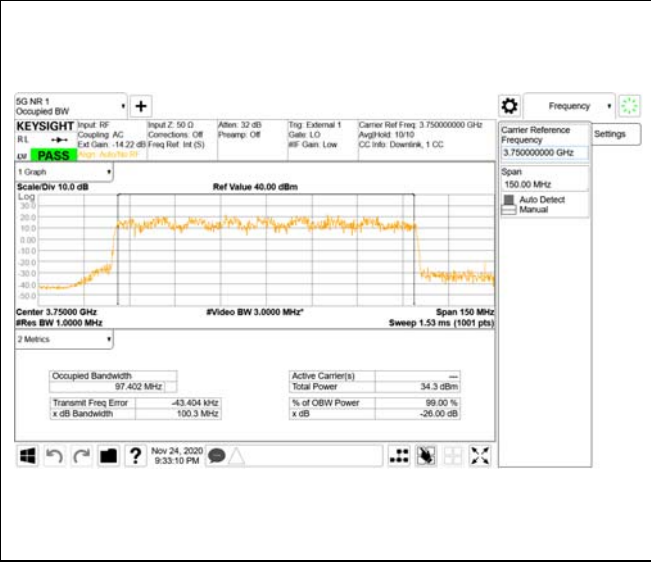


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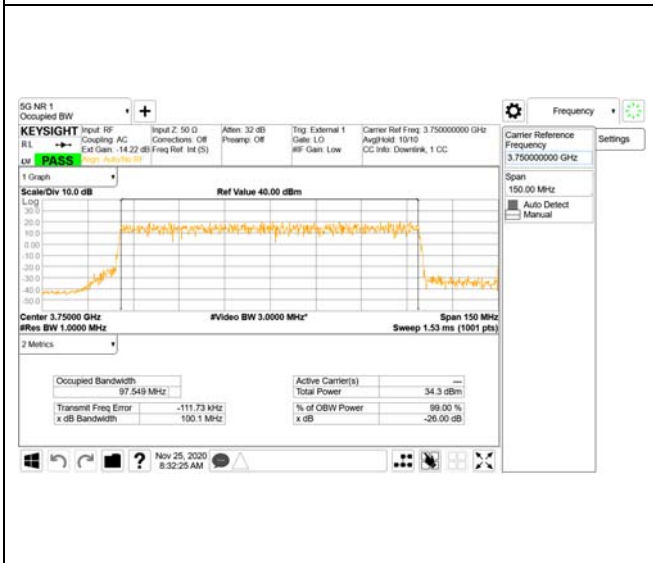
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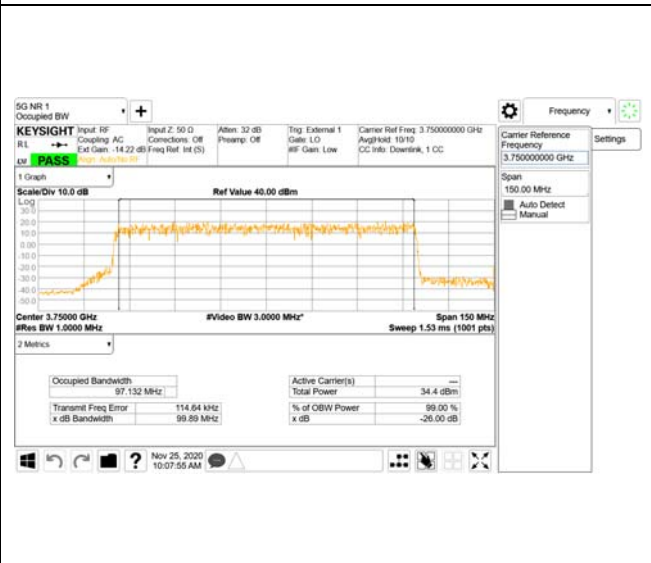
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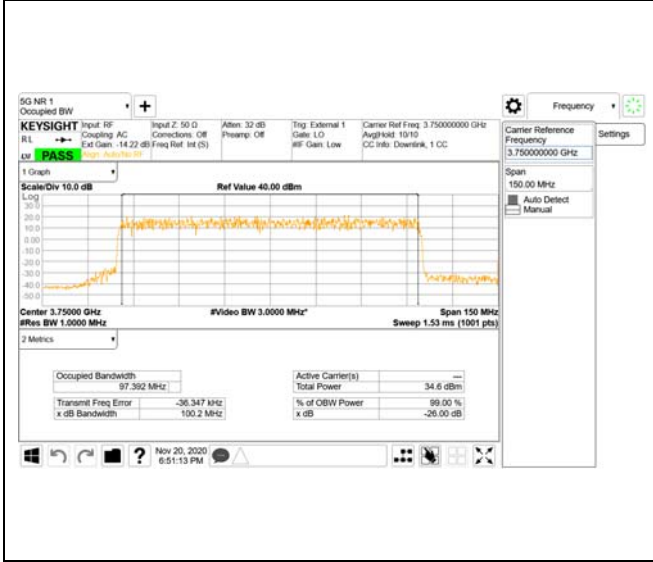


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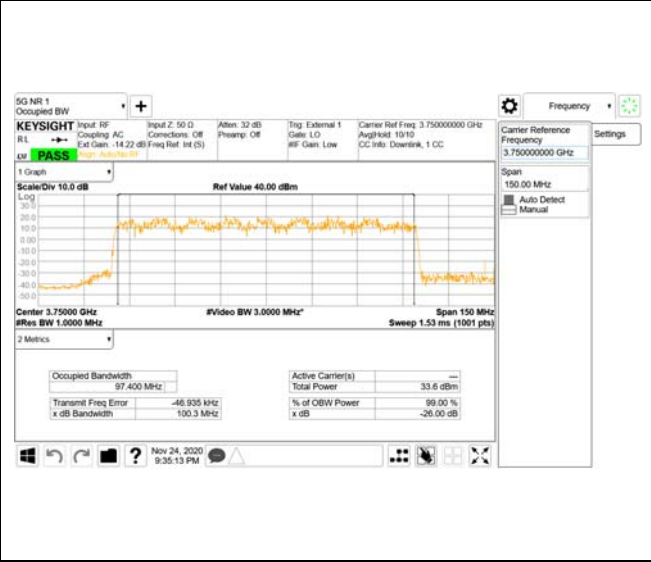


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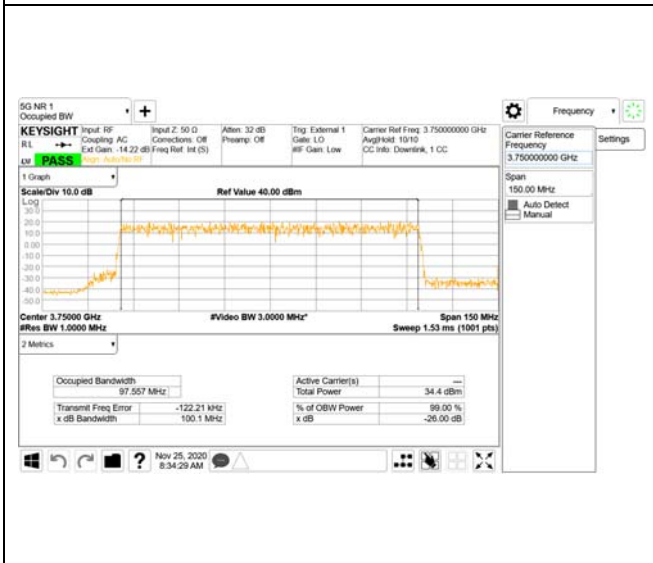
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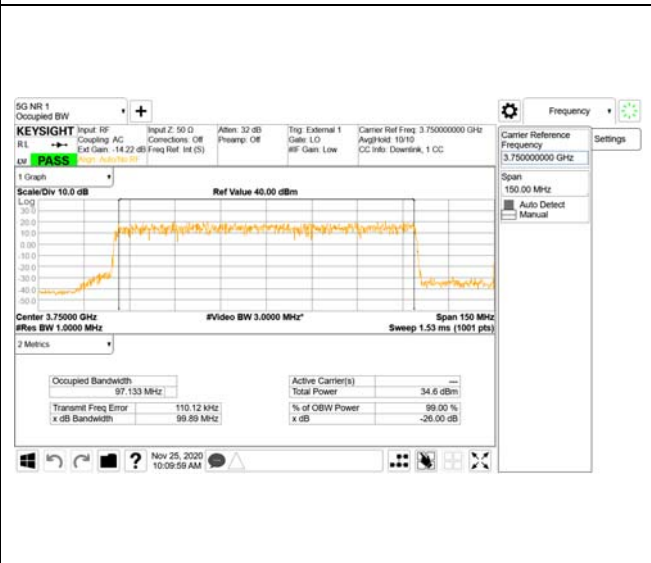
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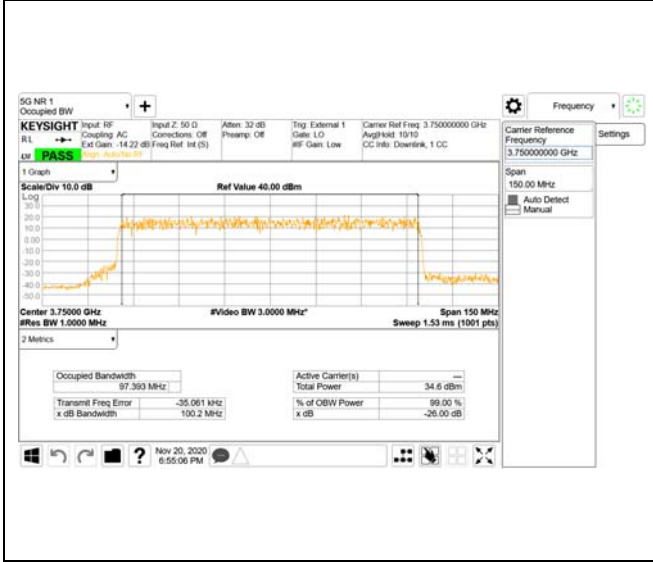
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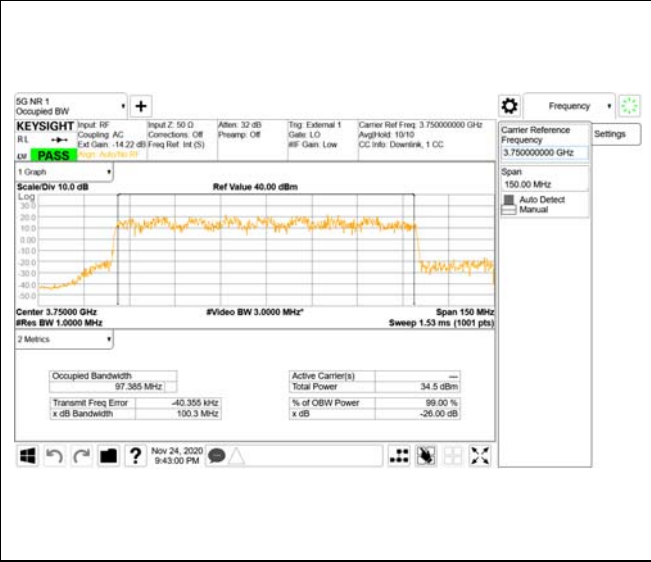


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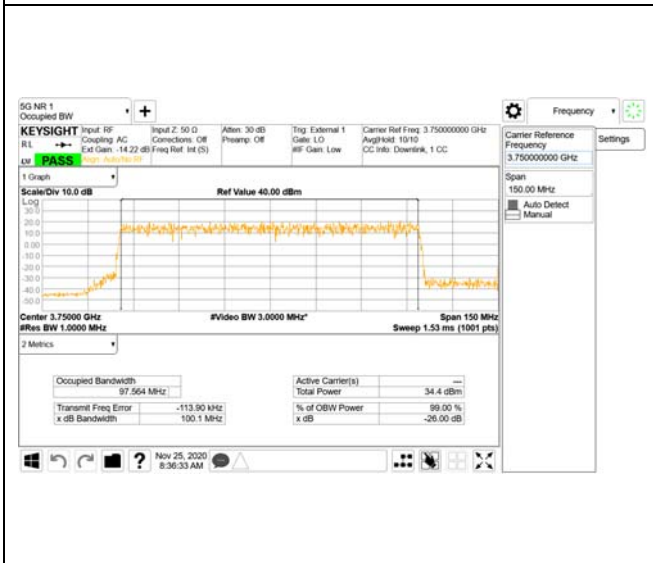
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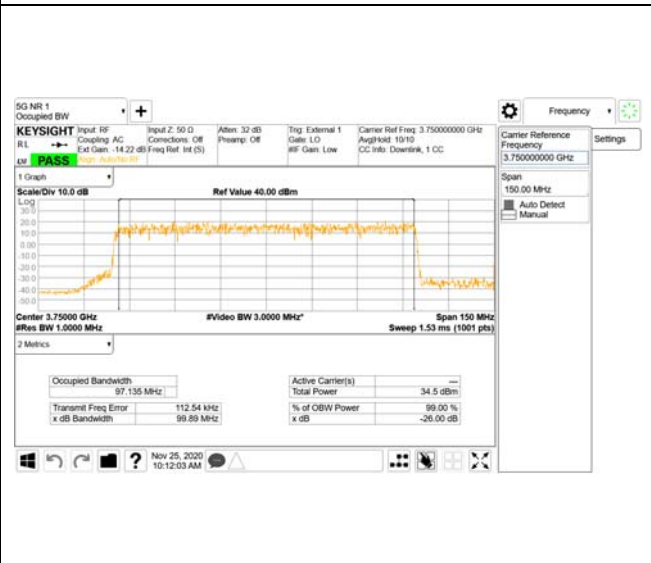
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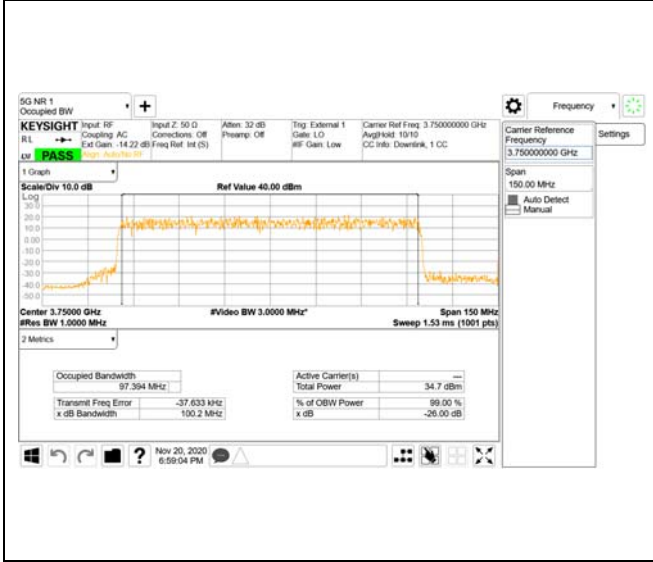


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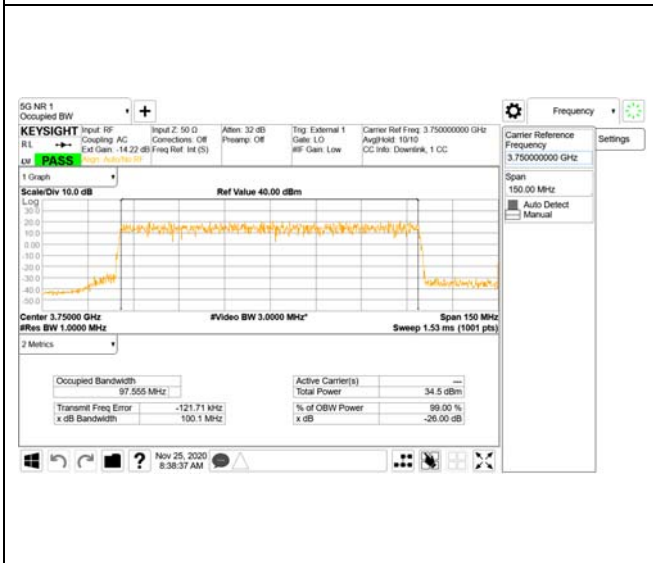
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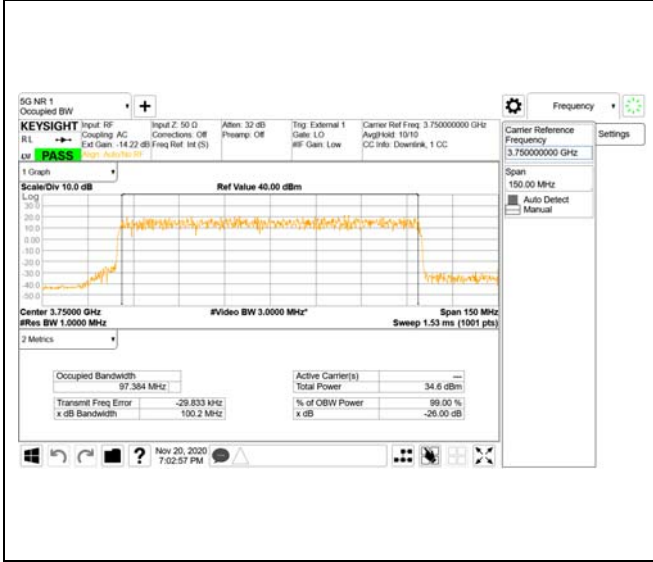


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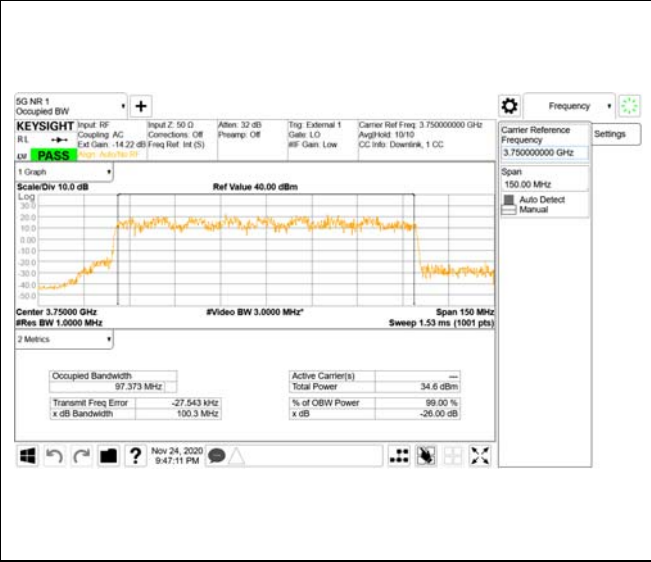
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ANT15

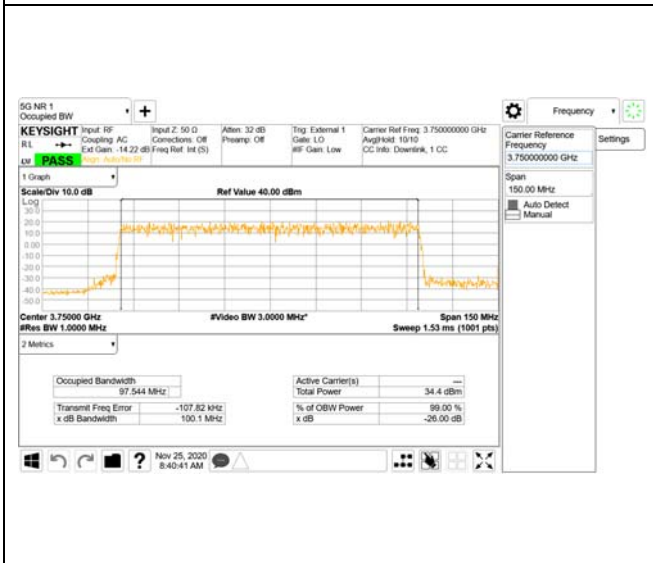
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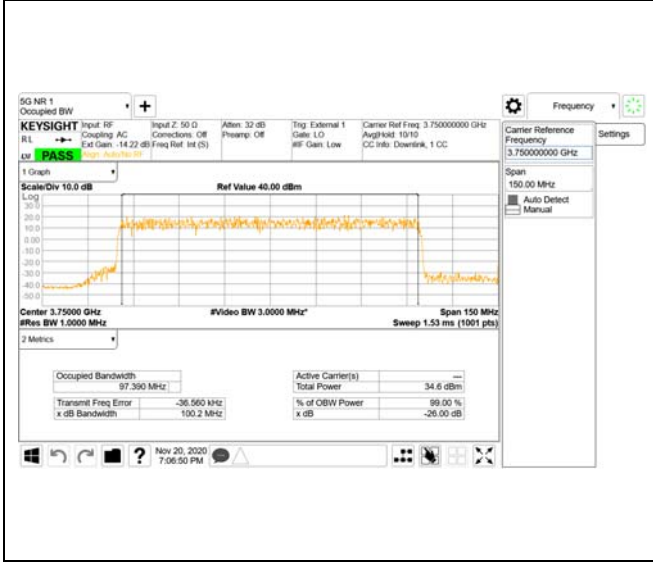


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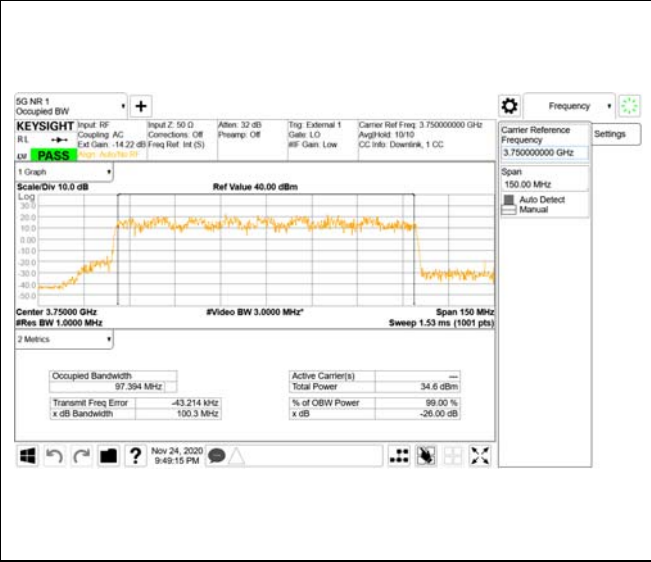


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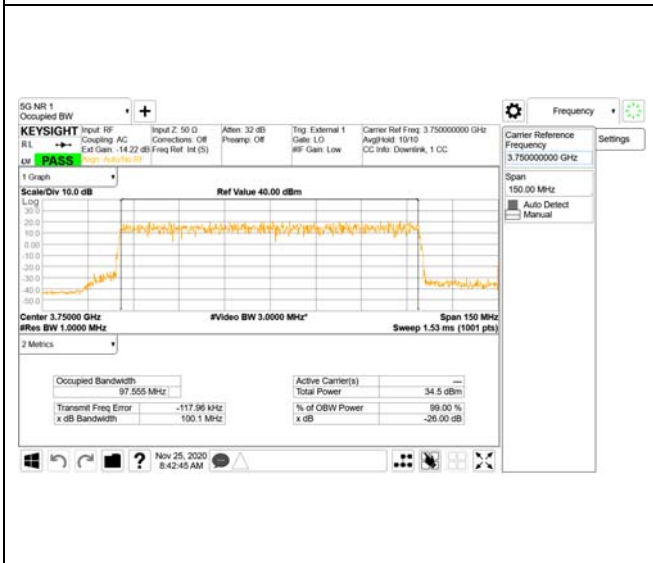
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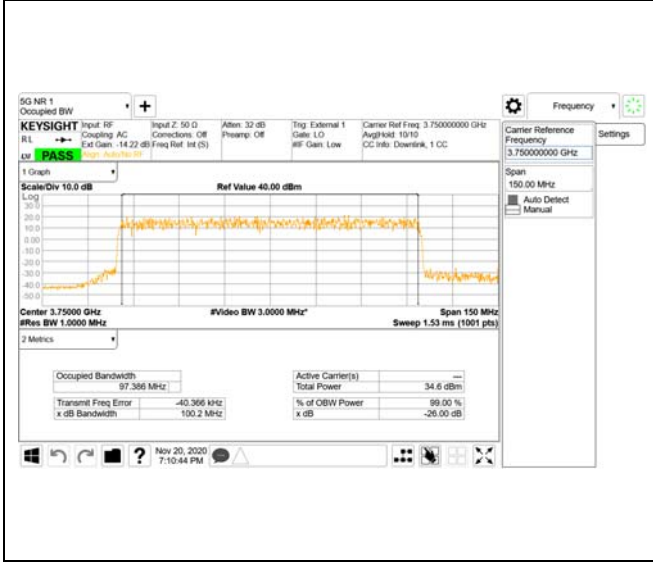


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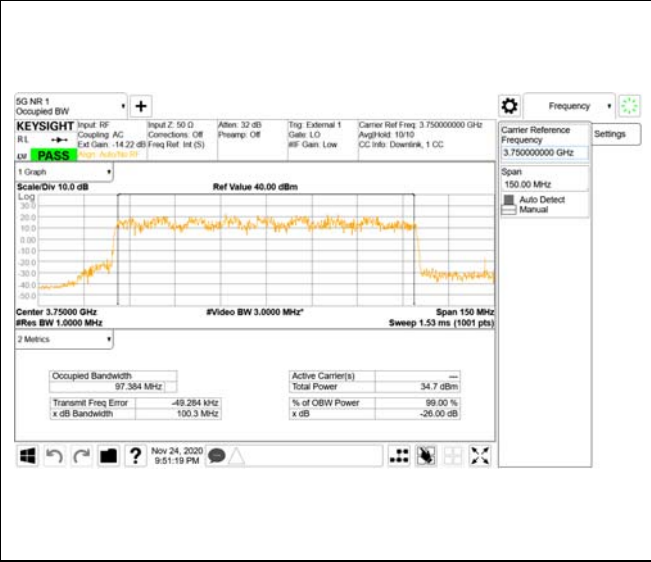


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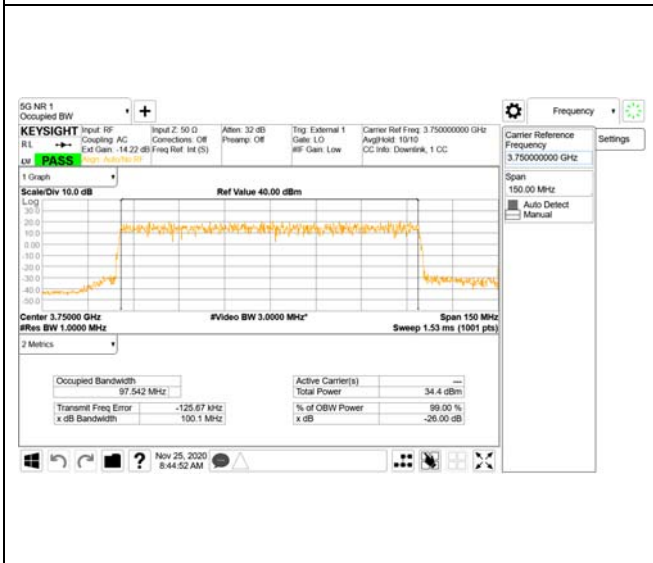
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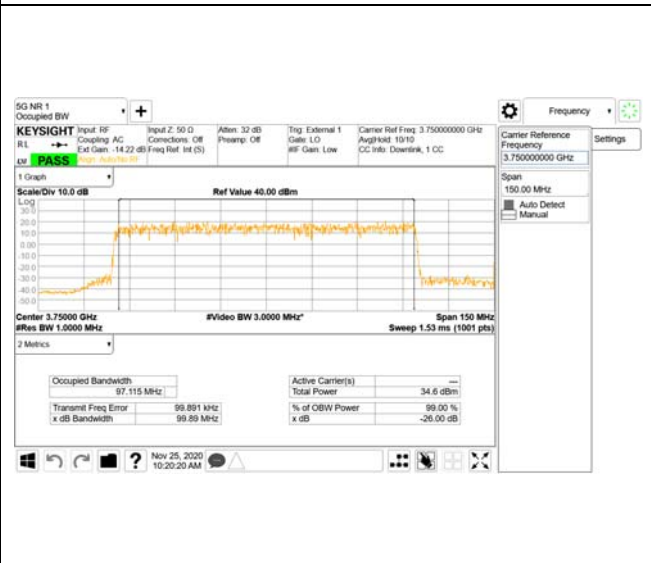
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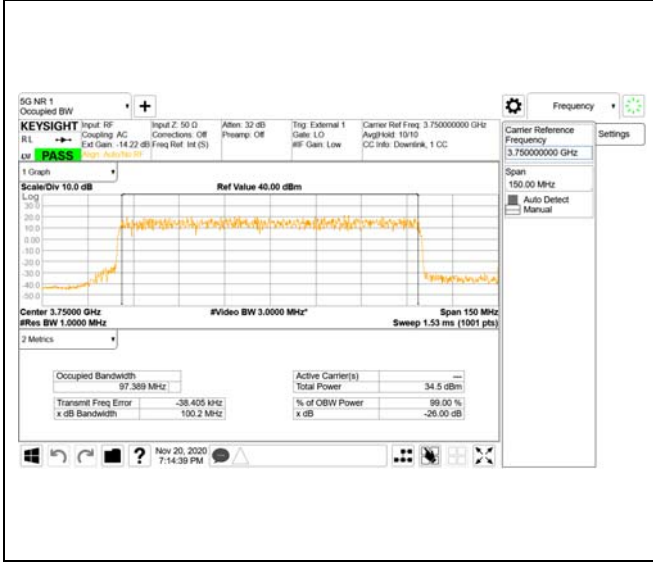


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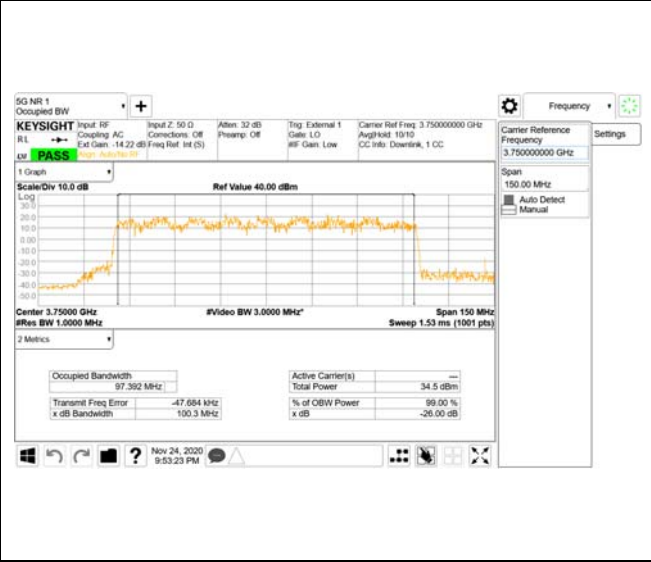


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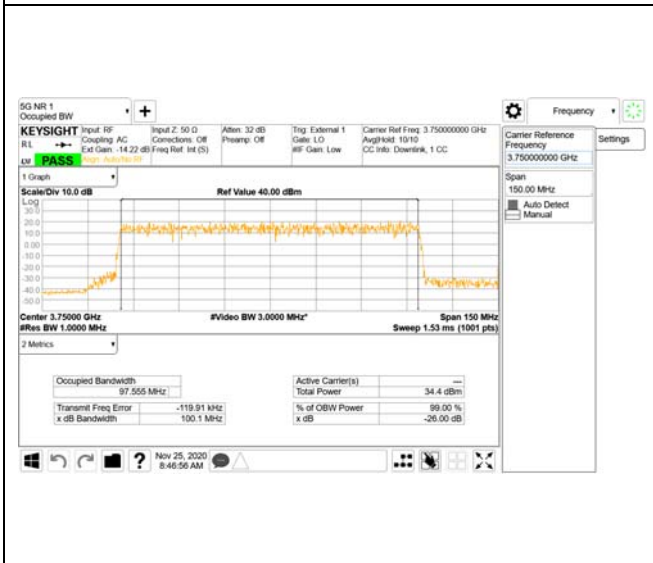
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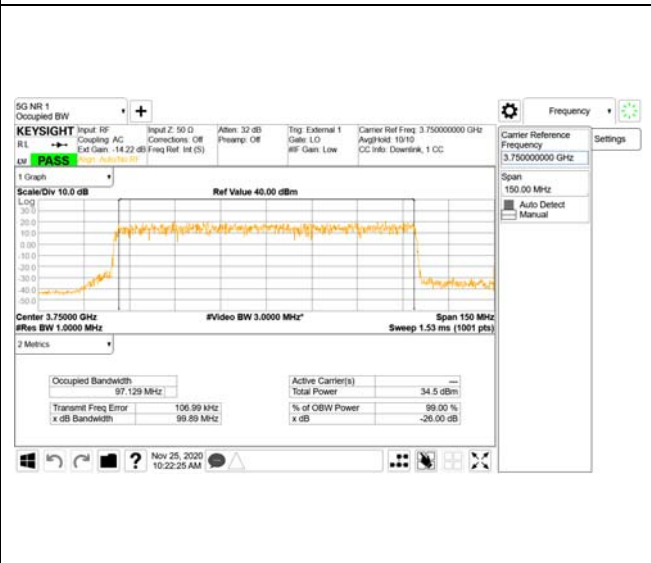
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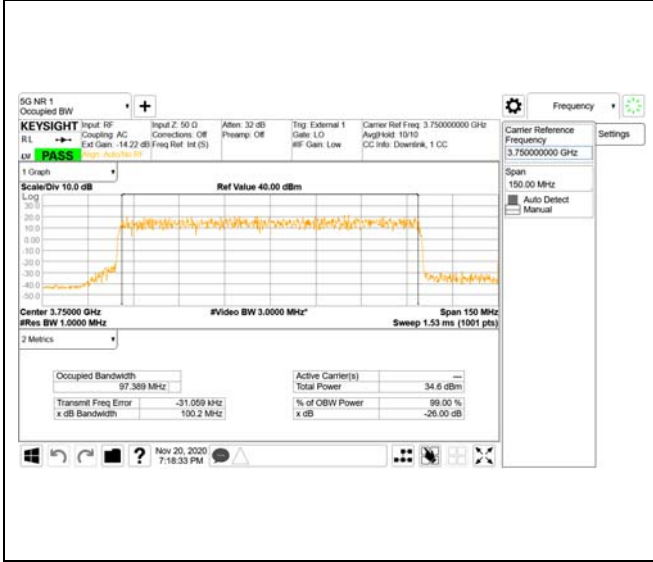
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ANT19

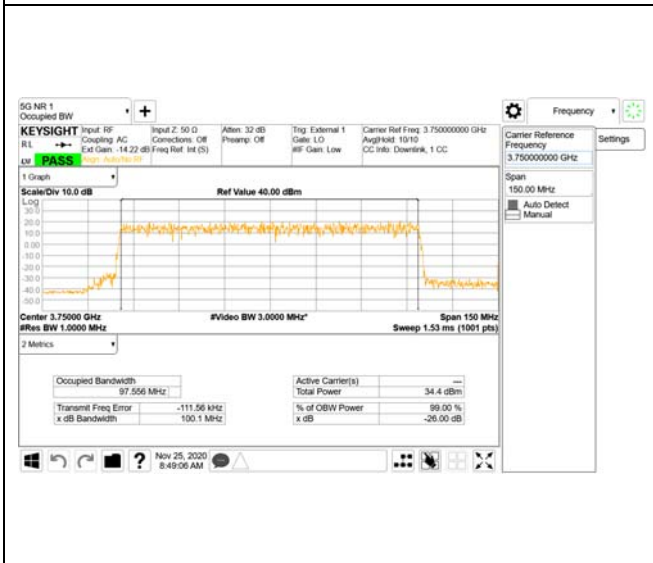
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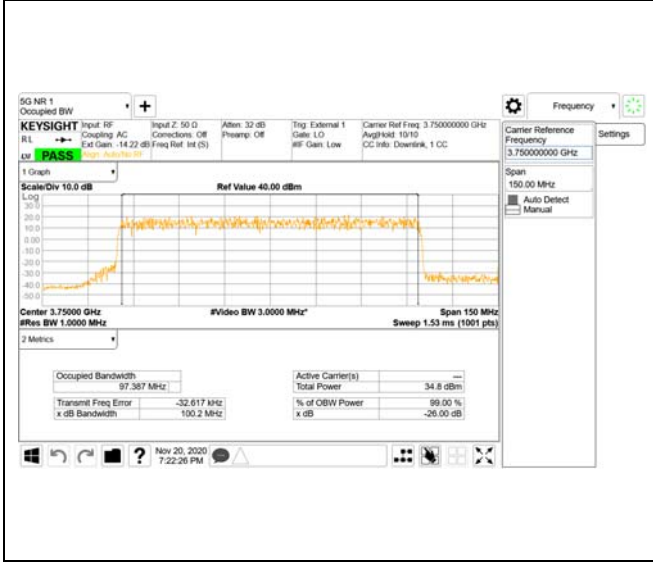


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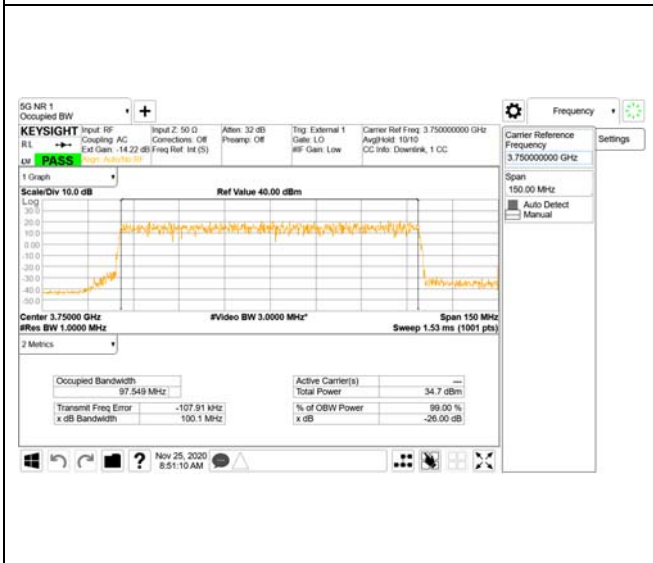
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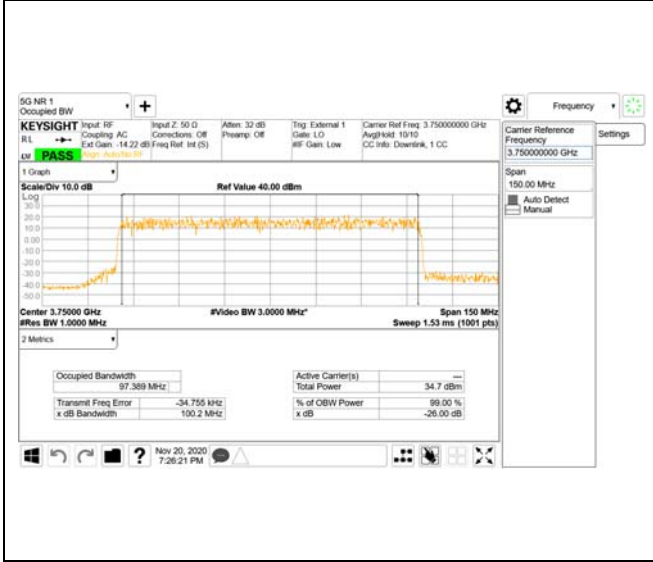


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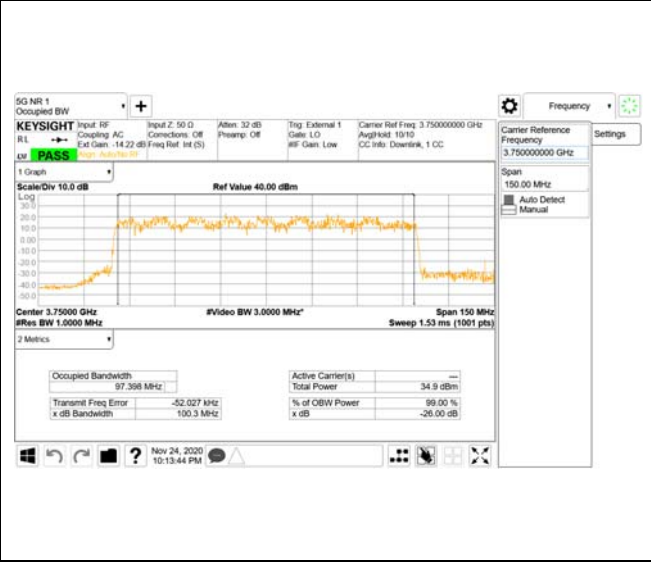


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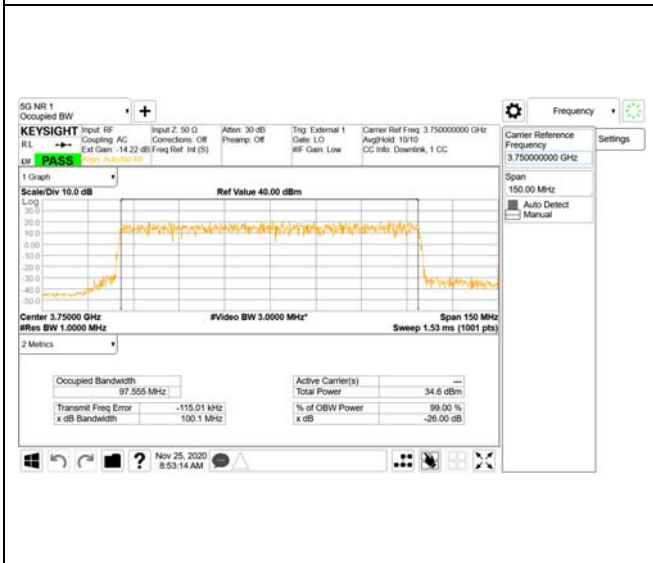
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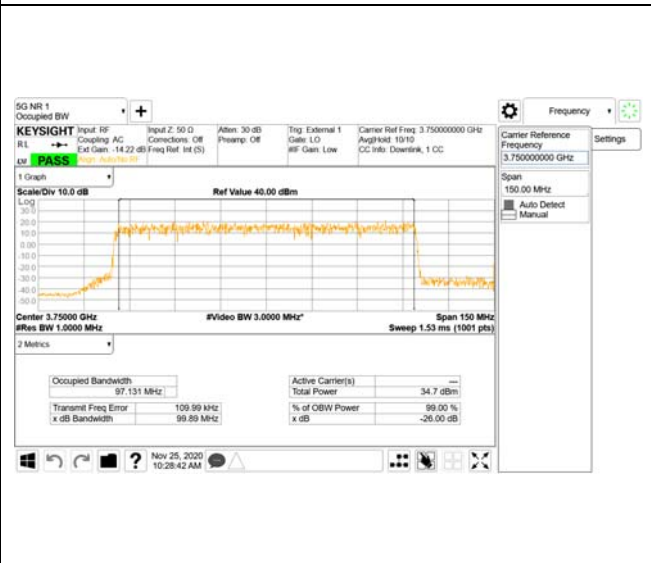
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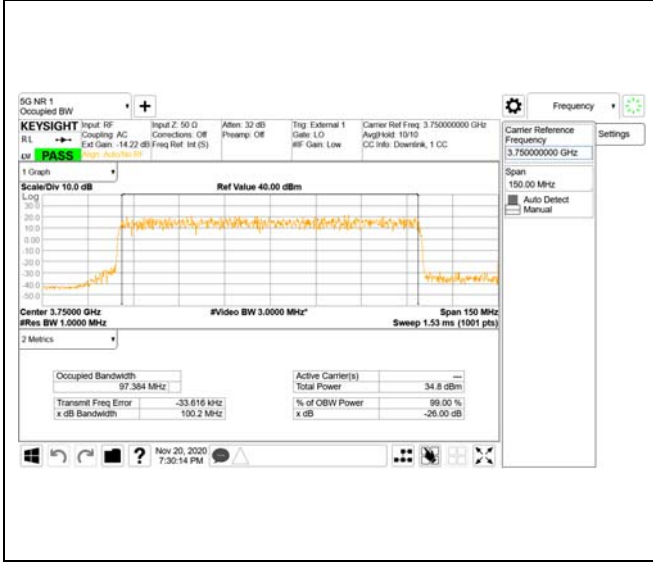


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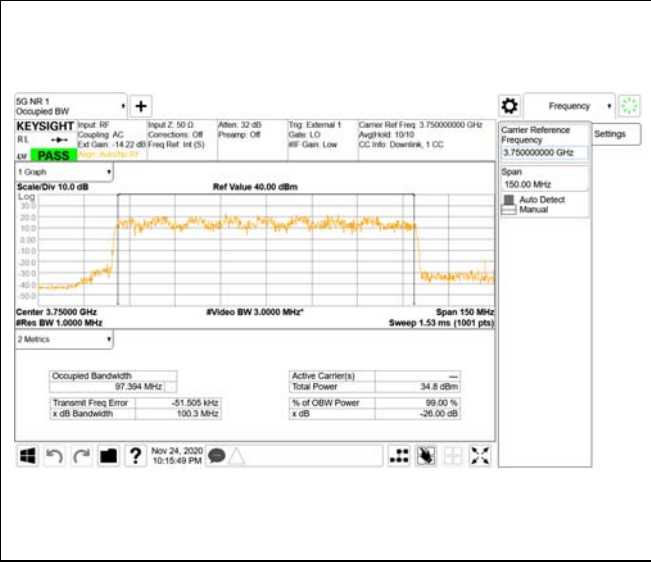


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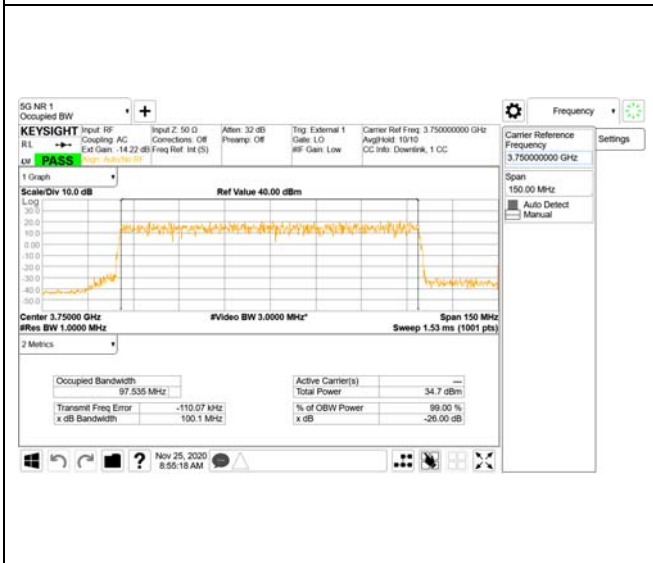
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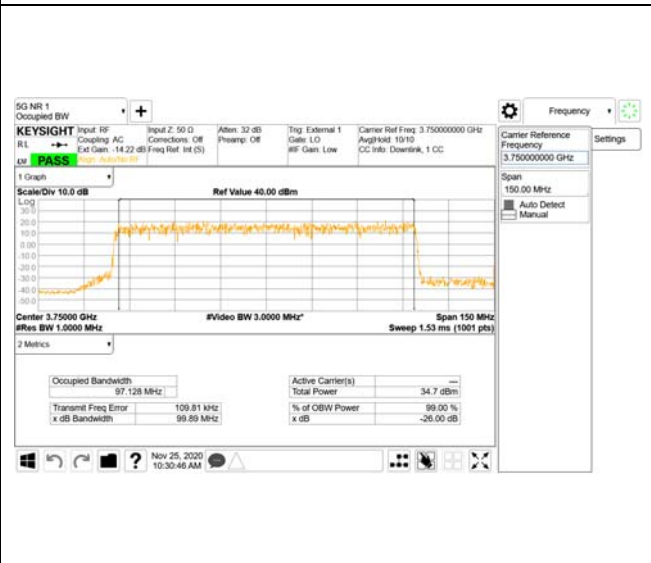
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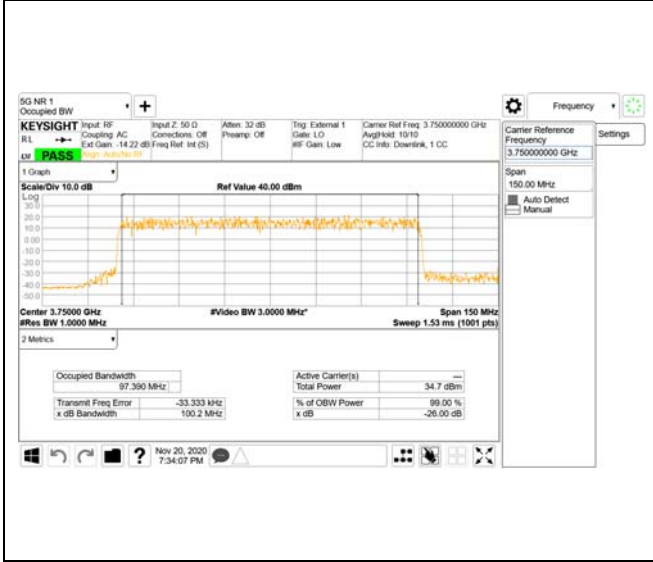


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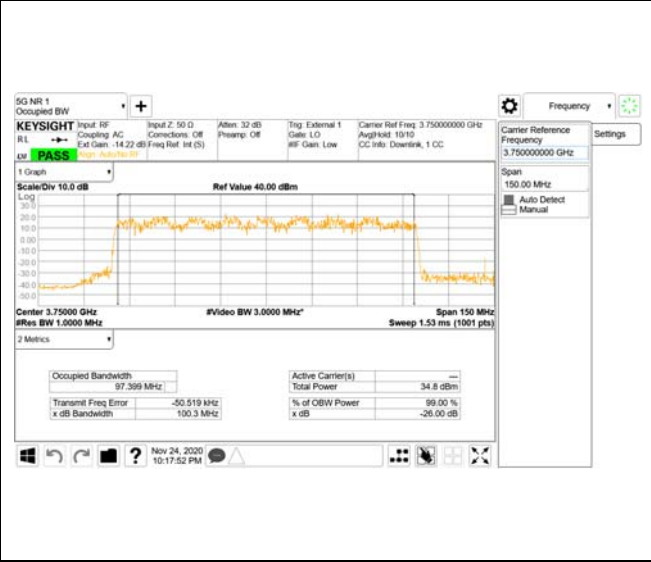


ANT23

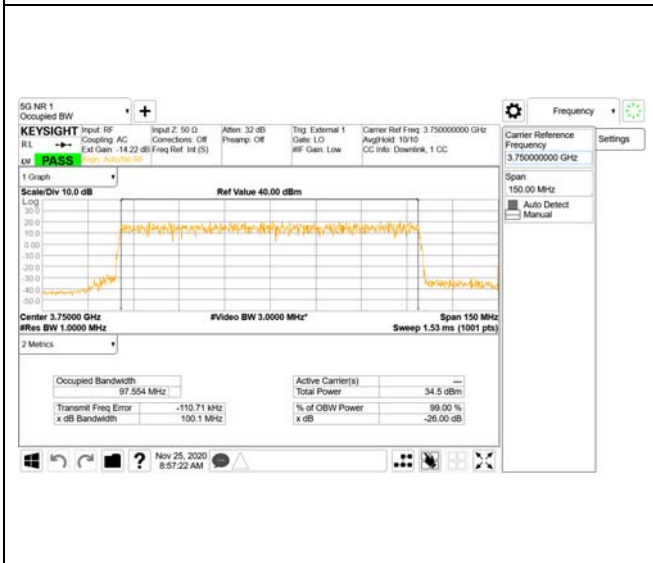
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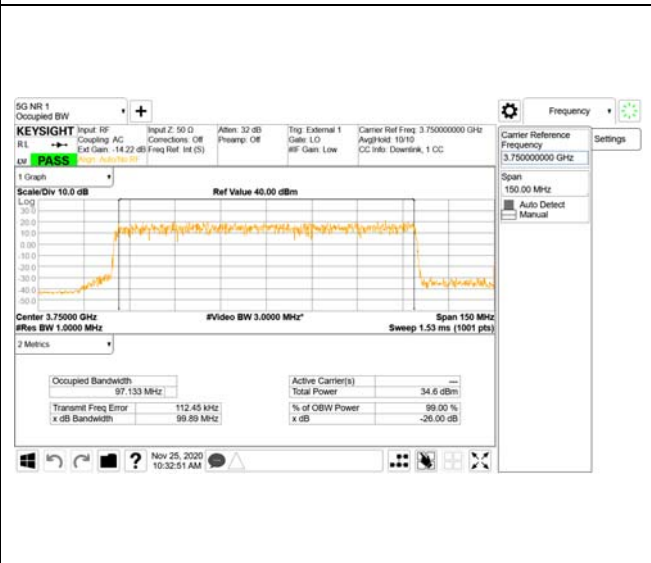
16QAM



64QAM

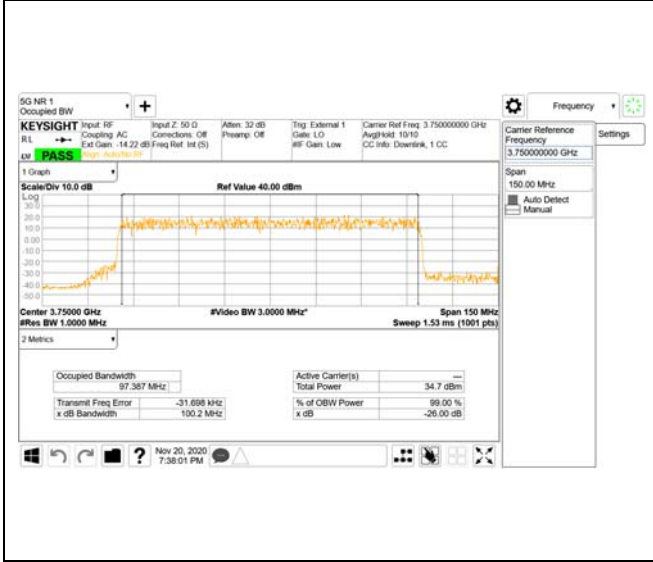


256QAM

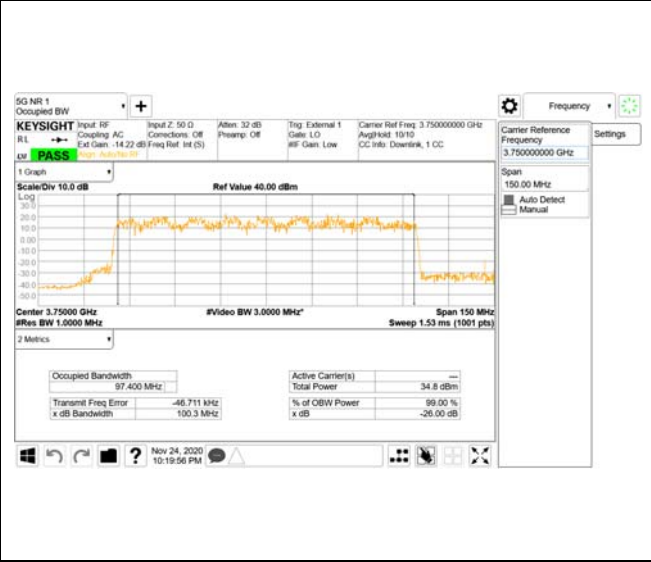


ANT24

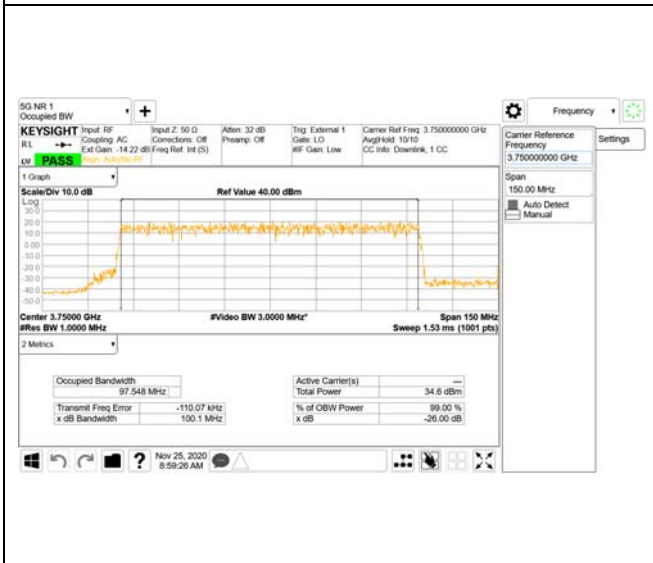
QPSK



16QAM



64QAM



256QAM

