

11N40MIMO_Ant1_5795



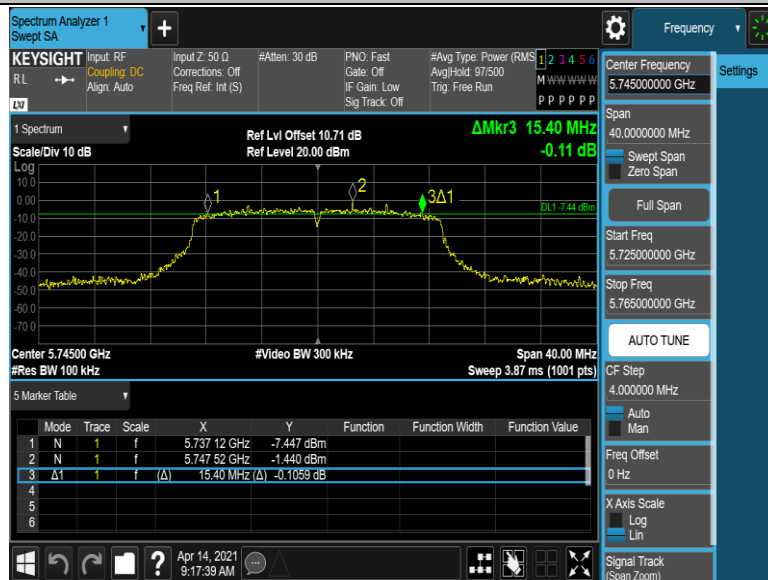
11N40MIMO_Ant2_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant2_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant2_5785



11AC20SISO_Ant1_5825



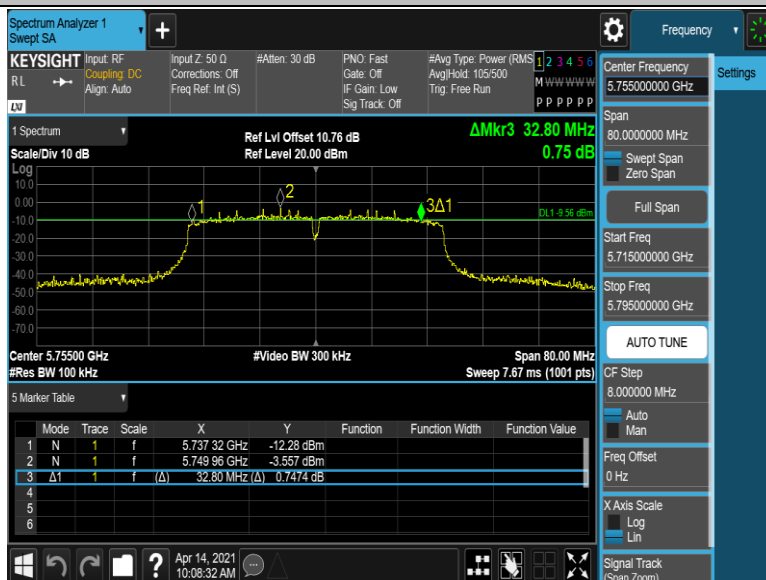
11AC20SISO_Ant2_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant2_5755



11AC40SISO_Ant1_5795



11AC40SISO_Ant2_5795



11AC80SISO_Ant1_5775



11AC80SISO_Ant2_5775



11AC20MIMO_Ant1_5745



11AC20MIMO_Ant2_5745



11AC20MIMO_Ant1_5785



11AC20MIMO_Ant2_5785



11AC20MIMO_Ant1_5825



11AC20MIMO_Ant2_5825



11AC40MIMO_Ant1_5755

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Coupling: DC Corrections: Off #Atten: 30 dB PNO: Fast Gate: Off #Avg Type: Power (RMS) Avg/Hold: 105/500 Tng: Free Run

RL Align: Auto Freq Ref: Int (S) IF Gain: Low Sig Track: Off

Center Frequency: 5.755000000 GHz

Span: 80.00000000 MHz

Start Freq: 5.715000000 GHz

Stop Freq: 5.795000000 GHz

AUTO TUNE

CF Step: 8.000000 MHz

Freq Offset: 0 Hz

X Axis Scale: Log

Signal Track (Span Zoom)

1 Spectrum

Scale/Div 10 dB

Ref Lvl Offset 10.77 dB

Ref Level 20.00 dBm

AMkr3 34.00 dBm

-2.52 dB

Center 5.75500 GHz

#Video BW 300 kHz

Span 80.00 MHz

Sweep 7.67 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	5.738 68 GHz	-12.30 dBm			
2	N	1	f	5.766 28 GHz	-5.529 dBm			
3	Δ1	1	f (Δ)	34.00 MHz (Δ)	-2.517 dB			
4								
5								
6								

Apr 15, 2021 10:29:16 AM

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF Coupling: DC Corrections: Off Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 105/500 Trig: Free Run M WWW WWW P P P P P P

1 Spectrum
Scale/Div 10 dB Ref Lvl Offset 10.76 dB **ΔMkr3 35.20 MHz 0.78 dB**
Log 10 0.00 -10.00 -20.00 -30.00 -40.00 -50.00 -60.00 -70.00
Center 5.75500 GHz #Video BW 300 kHz Span 80.00 MHz
#Res BW 100 kHz Sweep 7.67 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	5.737 40 GHz	-13.57 dBm			
2	N	1	f	5.750 04 GHz	-4.783 dBm			
3	Δ1	1	f (Δ)	35.20 MHz (Δ)	0.7824 dB			
4								
5								
6								

Center Frequency
5.75500000 GHz
Span 80.0000000 MHz
Sweep Span Zero Span
Full Span
Start Freq 5.715000000 GHz
Stop Freq 5.795000000 GHz
AUTO TUNE
CF Step 8.000000 MHz
Auto Man
Freq Offset 0 Hz
X Axis Scale Log Lin
Signal Track (Span Zoom)

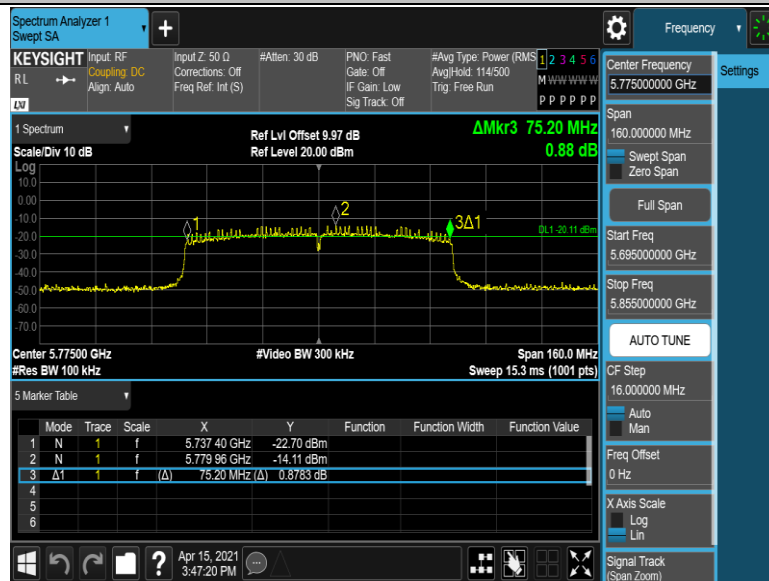
11AC40MIMO_Ant1_5795



11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



Appendix B: Maximum conducted output power

Test Result

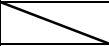
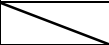
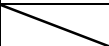
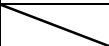
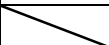
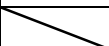
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	10.09	≤ 23.98	PASS
	Ant2	5180	11.53	≤ 23.98	PASS
	Ant1	5200	10.04	≤ 23.98	PASS
	Ant2	5200	11.30	≤ 23.98	PASS
	Ant1	5240	10.73	≤ 23.98	PASS
	Ant2	5240	9.70	≤ 23.98	PASS
	Ant1	5745	9.19	≤ 30	PASS
	Ant2	5745	8.88	≤ 30	PASS
	Ant1	5785	4.84	≤ 30	PASS
	Ant2	5785	9.83	≤ 30	PASS
	Ant1	5825	9.33	≤ 30	PASS
	Ant2	5825	10.00	≤ 30	PASS
11N20SISO	Ant1	5180	9.69	≤ 23.98	PASS
	Ant2	5180	11.22	≤ 23.98	PASS
	Ant1	5200	10.02	≤ 23.98	PASS
	Ant2	5200	11.01	≤ 23.98	PASS
	Ant1	5240	10.47	≤ 23.98	PASS
	Ant2	5240	9.72	≤ 23.98	PASS
	Ant1	5745	5.03	≤ 30	PASS
	Ant2	5745	8.59	≤ 30	PASS
	Ant1	5785	9.53	≤ 30	PASS
	Ant2	5785	9.62	≤ 30	PASS
	Ant1	5825	9.17	≤ 30	PASS
	Ant2	5825	9.84	≤ 30	PASS
11N40SISO	Ant1	5190	10.06	≤ 23.98	PASS
	Ant2	5190	11.30	≤ 23.98	PASS
	Ant1	5230	10.46	≤ 23.98	PASS
	Ant2	5230	10.22	≤ 23.98	PASS
	Ant1	5755	9.41	≤ 30	PASS
	Ant2	5755	9.18	≤ 30	PASS
	Ant1	5795	8.90	≤ 30	PASS
	Ant2	5795	9.80	≤ 30	PASS
11N20MIMO	Ant1	5180	6.24	≤ 23.98	PASS
	Ant2	5180	10.03	≤ 23.98	PASS
	total	5180	11.5	≤ 23.98	PASS
	Ant1	5200	6.69	≤ 23.98	PASS
	Ant2	5200	9.43	≤ 23.98	PASS
	total	5200	11.3	≤ 23.98	PASS

	Ant1	5240	7.30	≤ 23.98	PASS
	Ant2	5240	7.70	≤ 23.98	PASS
	total	5240	10.5	≤ 23.98	PASS
	Ant1	5745	7.17	≤ 30	PASS
	Ant2	5745	7.63	≤ 30	PASS
	total	5745	10.4	≤ 30	PASS
	Ant1	5785	8.00	≤ 30	PASS
	Ant2	5785	8.70	≤ 30	PASS
	total	5785	11.4	≤ 30	PASS
	Ant1	5825	7.85	≤ 30	PASS
	Ant2	5825	8.80	≤ 30	PASS
	total	5825	11.4	≤ 30	PASS
11N40MIMO	Ant1	5190	6.62	≤ 23.98	PASS
	Ant2	5190	9.41	≤ 23.98	PASS
	total	5190	11.2	≤ 23.98	PASS
	Ant1	5230	7.20	≤ 23.98	PASS
	Ant2	5230	8.21	≤ 23.98	PASS
	total	5230	10.7	≤ 23.98	PASS
	Ant1	5755	9.51	≤ 30	PASS
	Ant2	5755	7.91	≤ 30	PASS
	total	5755	11.8	≤ 30	PASS
	Ant1	5795	9.50	≤ 30	PASS
	Ant2	5795	9.98	≤ 30	PASS
	total	5795	12.8	≤ 30	PASS
11AC20SISO	Ant1	5180	9.25	≤ 23.98	PASS
	Ant2	5180	11.33	≤ 23.98	PASS
	Ant1	5200	9.38	≤ 23.98	PASS
	Ant2	5200	11.23	≤ 23.98	PASS
	Ant1	5240	10.22	≤ 23.98	PASS
	Ant2	5240	9.77	≤ 23.98	PASS
	Ant1	5745	8.09	≤ 30	PASS
	Ant2	5745	9.05	≤ 30	PASS
	Ant1	5785	8.58	≤ 30	PASS
	Ant2	5785	10.00	≤ 30	PASS
	Ant1	5825	8.45	≤ 30	PASS
	Ant2	5825	10.28	≤ 30	PASS
11AC40SISO	Ant1	5190	9.50	≤ 23.98	PASS
	Ant2	5190	11.93	≤ 23.98	PASS
	Ant1	5230	10.01	≤ 23.98	PASS
	Ant2	5230	10.78	≤ 23.98	PASS
	Ant1	5755	8.76	≤ 30	PASS
	Ant2	5755	9.62	≤ 30	PASS
	Ant1	5795	8.99	≤ 30	PASS

	Ant2	5795	10.29	≤ 30	PASS
11AC80SISO	Ant1	5210	9.44	≤ 23.98	PASS
	Ant2	5210	10.89	≤ 23.98	PASS
	Ant1	5775	8.78	≤ 30	PASS
	Ant2	5775	10.06	≤ 30	PASS
11AC20MIMO	Ant1	5180	5.32	≤ 23.98	PASS
	Ant2	5180	9.36	≤ 23.98	PASS
	total	5180	9.5	≤ 23.98	PASS
	Ant1	5200	5.83	≤ 23.98	PASS
	Ant2	5200	9.30	≤ 23.98	PASS
	total	5200	9.5	≤ 23.98	PASS
	Ant1	5240	6.97	≤ 23.98	PASS
	Ant2	5240	7.77	≤ 23.98	PASS
	total	5240	10.4	≤ 23.98	PASS
	Ant1	5745	7.46	≤ 30	PASS
	Ant2	5745	7.61	≤ 30	PASS
	total	5745	10.5	≤ 30	PASS
	Ant1	5785	7.99	≤ 30	PASS
	Ant2	5785	8.45	≤ 30	PASS
	total	5785	11.2	≤ 30	PASS
	Ant1	5825	7.76	≤ 30	PASS
	Ant2	5825	8.79	≤ 30	PASS
	total	5825	11.3	≤ 30	PASS
11AC40MIMO	Ant1	5190	6.23	≤ 23.98	PASS
	Ant2	5190	9.08	≤ 23.98	PASS
	total	5190	10.9	≤ 23.98	PASS
	Ant1	5230	6.91	≤ 23.98	PASS
	Ant2	5230	8.12	≤ 23.98	PASS
	total	5230	10.6	≤ 23.98	PASS
	Ant1	5755	8.13	≤ 30	PASS
	Ant2	5755	8.06	≤ 30	PASS
	total	5755	11.1	≤ 30	PASS
	Ant1	5795	8.40	≤ 30	PASS
	Ant2	5795	8.87	≤ 30	PASS
	total	5795	11.7	≤ 30	PASS
11AC80MIMO	Ant1	5210	5.40	≤ 23.98	PASS
	Ant2	5210	8.00	≤ 23.98	PASS
	total	5210	9.9	≤ 23.98	PASS
	Ant1	5775	1.25	≤ 30	PASS
	Ant2	5775	1.24	≤ 30	PASS
	total	5775	4.3	≤ 30	PASS

Note: The Duty Cycle Factor is compensated in the graph.

TestMode	Antenna	Channel	OCB [MHz]	e.i.r.p Result[dBm]	10*10LOG10B Limit[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	16.419	13.09	≦ 22.15	≦ 23.01	PASS
	Ant2	5180	16.421	14.53	≦ 22.15	≦ 23.01	PASS
	Ant1	5200	16.392	13.04	≦ 22.15	≦ 23.01	PASS
	Ant2	5200	16.414	14.3	≦ 22.15	≦ 23.01	PASS
	Ant1	5240	16.4	13.73	≦ 22.15	≦ 23.01	PASS
	Ant2	5240	16.398	12.7	≦ 22.15	≦ 23.01	PASS
11N20SISO	Ant1	5180	17.485	12.69	≦ 22.43	≦ 23.01	PASS
	Ant2	5180	17.501	14.22	≦ 22.43	≦ 23.01	PASS
	Ant1	5200	17.489	13.02	≦ 22.43	≦ 23.01	PASS
	Ant2	5200	17.469	14.01	≦ 22.42	≦ 23.01	PASS
	Ant1	5240	17.506	13.47	≦ 22.43	≦ 23.01	PASS
	Ant2	5240	17.468	12.72	≦ 22.42	≦ 23.01	PASS
11N40SISO	Ant1	5190	35.966	13.06	≦ 25.56	≦ 23.01	PASS
	Ant2	5190	36.017	14.3	≦ 25.57	≦ 23.01	PASS
	Ant1	5230	35.999	13.46	≦ 25.56	≦ 23.01	PASS
	Ant2	5230	36.012	13.22	≦ 25.56	≦ 23.01	PASS
11N20MIMO	Ant1	5180	17.498	9.24	≦ 22.43	≦ 23.01	PASS
	Ant2	5180	17.503	13.03	≦ 22.43	≦ 23.01	PASS
	total	5180		17.5	≦ 22.43	≦ 23.01	PASS
	Ant1	5200	17.494	9.69	≦ 22.43	≦ 23.01	PASS
	Ant2	5200	17.489	12.43	≦ 22.43	≦ 23.01	PASS
	total	5200		17.3	≦ 22.43	≦ 23.01	PASS
	Ant1	5240	17.498	10.3	≦ 22.43	≦ 23.01	PASS
	Ant2	5240	17.481	10.7	≦ 22.43	≦ 23.01	PASS
	total	5240		16.5	≦ 22.43	≦ 23.01	PASS
11N40MIMO	Ant1	5190	36.054	9.62	≦ 25.57	≦ 23.01	PASS
	Ant2	5190	35.943	12.41	≦ 25.56	≦ 23.01	PASS
	total	5190		17.2	≦ 25.56	≦ 23.01	PASS
	Ant1	5230	36.103	10.2	≦ 25.58	≦ 23.01	PASS
	Ant2	5230	35.965	11.21	≦ 25.56	≦ 23.01	PASS
	total	5230		16.7	≦ 25.56	≦ 23.01	PASS
11AC20SISO	Ant1	5180	17.486	12.25	≦ 22.43	≦ 23.01	PASS
	Ant2	5180	17.481	14.33	≦ 22.43	≦ 23.01	PASS
	Ant1	5200	17.485	12.38	≦ 22.43	≦ 23.01	PASS
	Ant2	5200	17.519	14.23	≦ 22.44	≦ 23.01	PASS
	Ant1	5240	17.472	13.22	≦ 22.42	≦ 23.01	PASS
	Ant2	5240	17.467	12.77	≦ 22.42	≦ 23.01	PASS
11AC40SISO	Ant1	5190	35.99	12.5	≦ 25.56	≦ 23.01	PASS
	Ant2	5190	35.903	14.93	≦ 25.55	≦ 23.01	PASS
	Ant1	5230	35.973	13.01	≦ 25.56	≦ 23.01	PASS

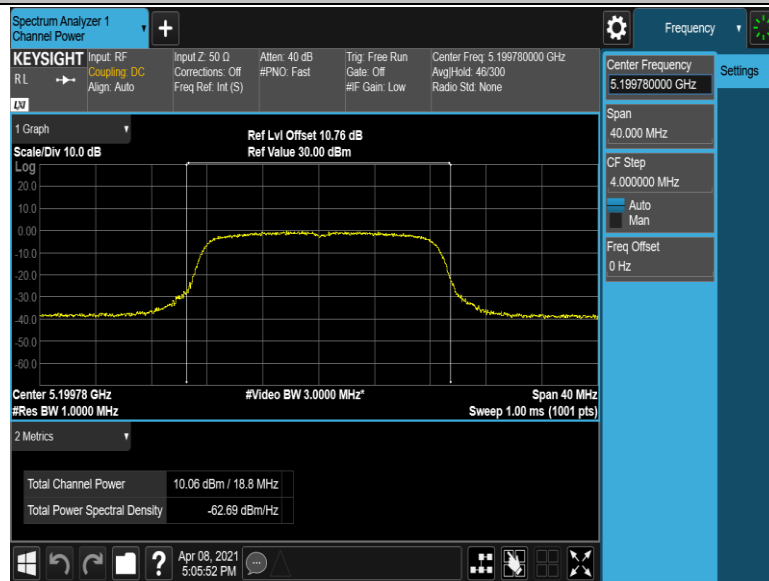
	Ant2	5230	35.919	13.78	$\cong 25.55$	$\cong 23.01$	PASS
11AC80SISO	Ant1	5210	74.813	12.44	$\cong 28.74$	$\cong 23.01$	PASS
	Ant2	5210	74.431	13.89	$\cong 28.72$	$\cong 23.01$	PASS
11AC20MIMO	Ant1	5180	17.493	8.32	$\cong 22.43$	$\cong 23.01$	PASS
	Ant2	5180	17.469	12.36	$\cong 22.42$	$\cong 23.01$	PASS
	total	5180		15.5	$\cong 22.42$	$\cong 23.01$	PASS
	Ant1	5200	17.501	8.83	$\cong 22.43$	$\cong 23.01$	PASS
	Ant2	5200	17.471	12.3	$\cong 22.42$	$\cong 23.01$	PASS
	total	5200		15.5	$\cong 22.42$	$\cong 23.01$	PASS
	Ant1	5240	17.523	9.97	$\cong 22.44$	$\cong 23.01$	PASS
	Ant2	5240	17.471	10.77	$\cong 22.42$	$\cong 23.01$	PASS
	total	5240		16.4	$\cong 22.42$	$\cong 23.01$	PASS
11AC40MIMO	Ant1	5190	36.007	9.23	$\cong 25.56$	$\cong 23.01$	PASS
	Ant2	5190	35.984	12.08	$\cong 25.56$	$\cong 23.01$	PASS
	total	5190		16.9	$\cong 25.56$	$\cong 23.01$	PASS
	Ant1	5230	35.988	9.91	$\cong 25.56$	$\cong 23.01$	PASS
	Ant2	5230	35.93	11.12	$\cong 25.55$	$\cong 23.01$	PASS
	total	5230		16.6	$\cong 25.55$	$\cong 23.01$	PASS
11AC80MIMO	Ant1	5210	74.867	8.4	$\cong 28.74$	$\cong 23.01$	PASS
	Ant2	5210	74.463	11	$\cong 28.72$	$\cong 23.01$	PASS
	total	5210		15.9	$\cong 28.72$	$\cong 23.01$	PASS

Note: The Duty Cycle Factor is compensated in the graph.

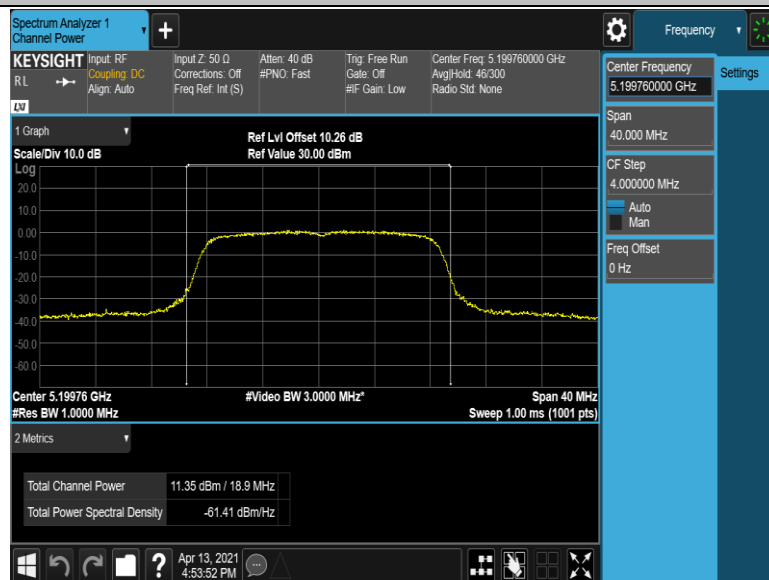
Test Graphs



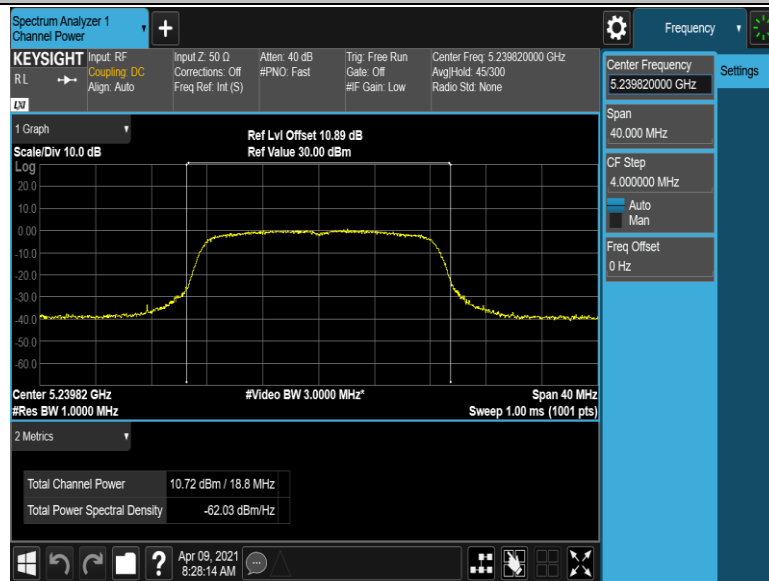
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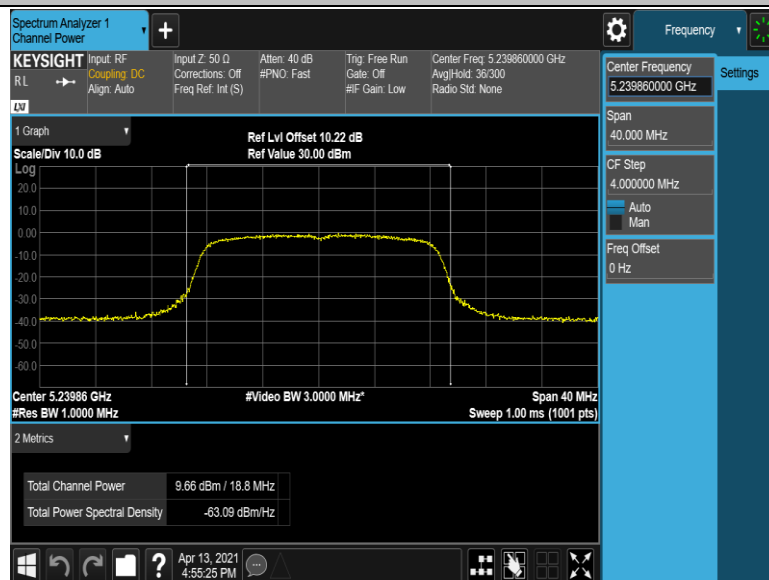
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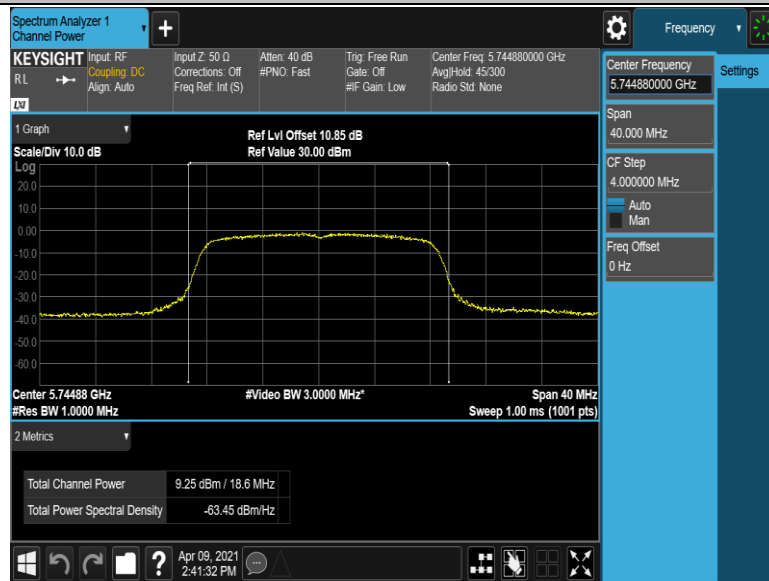
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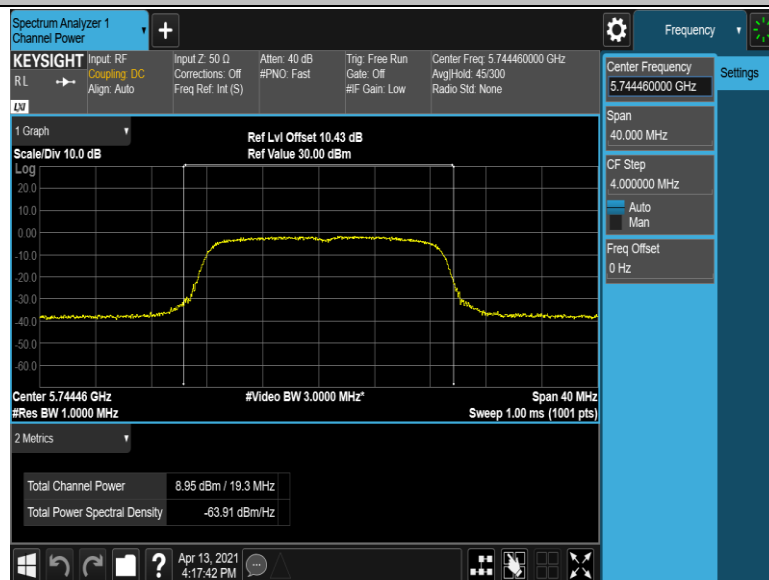
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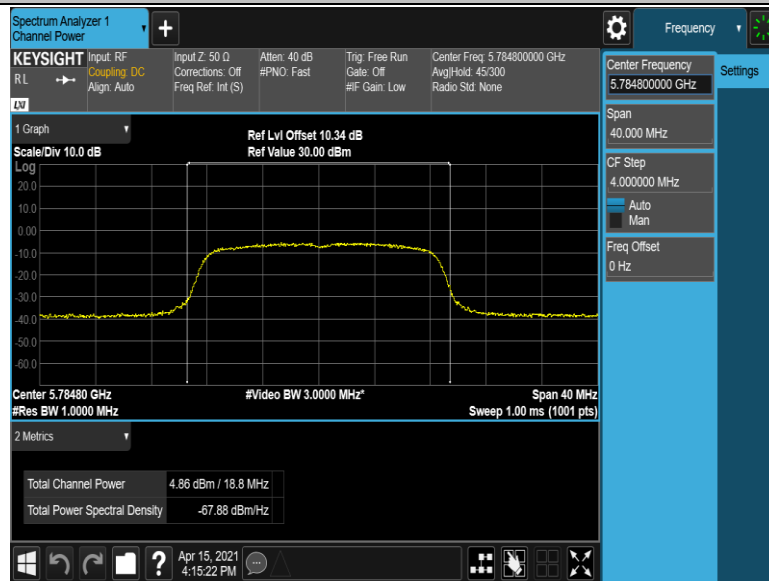
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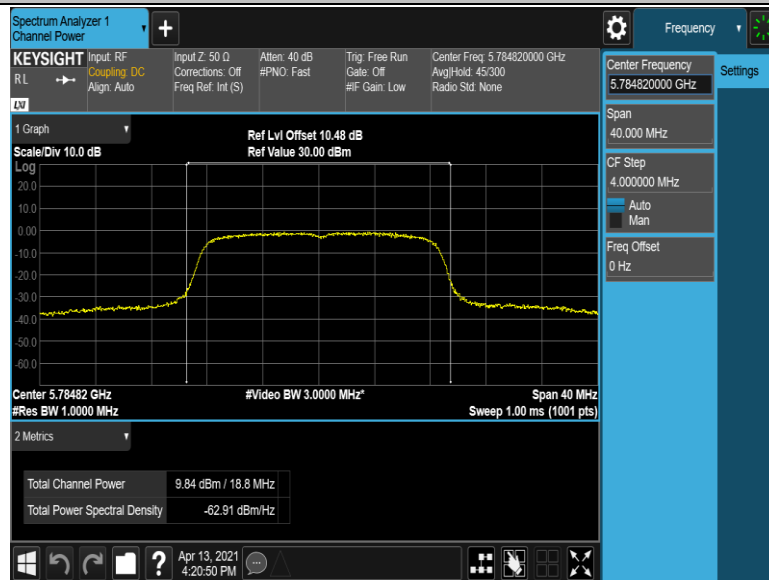
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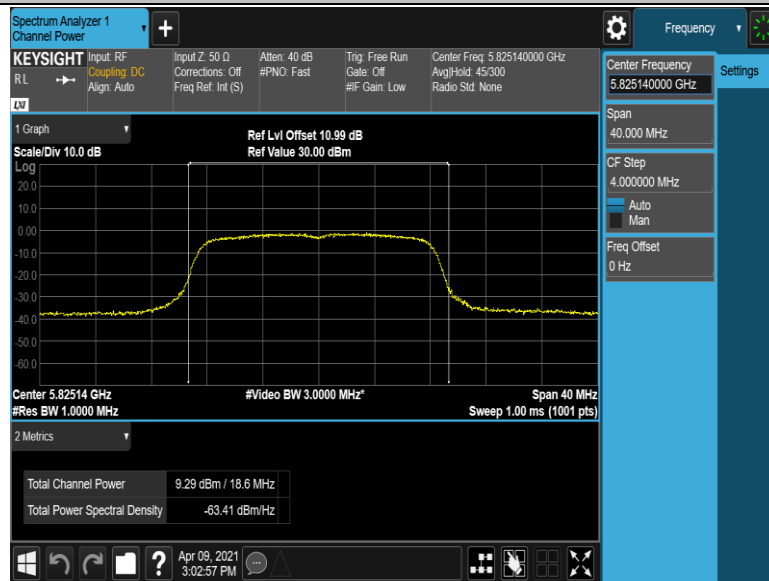
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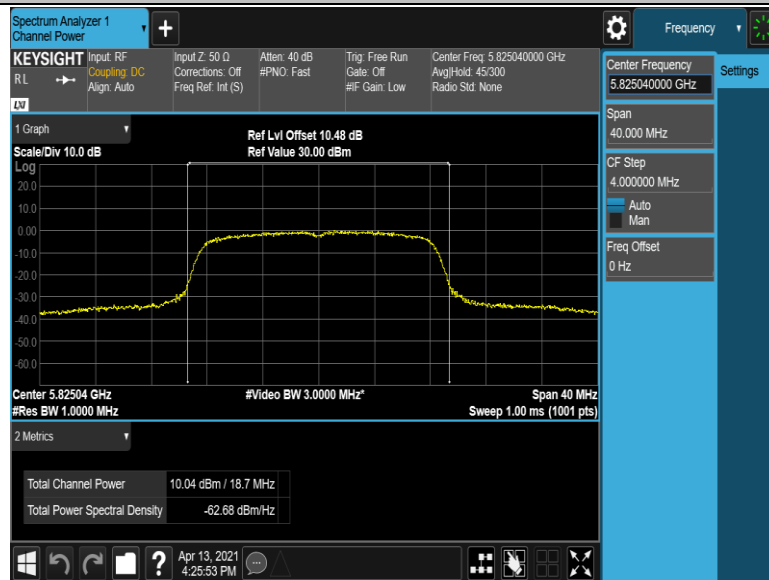
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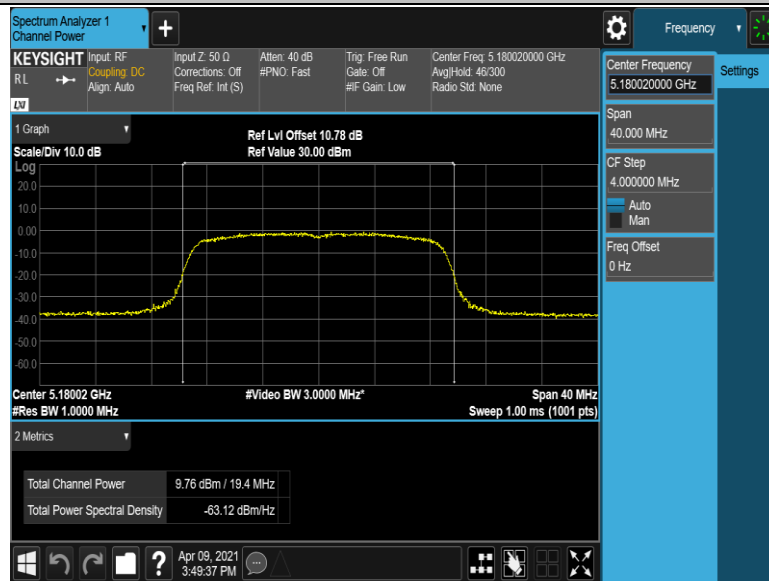
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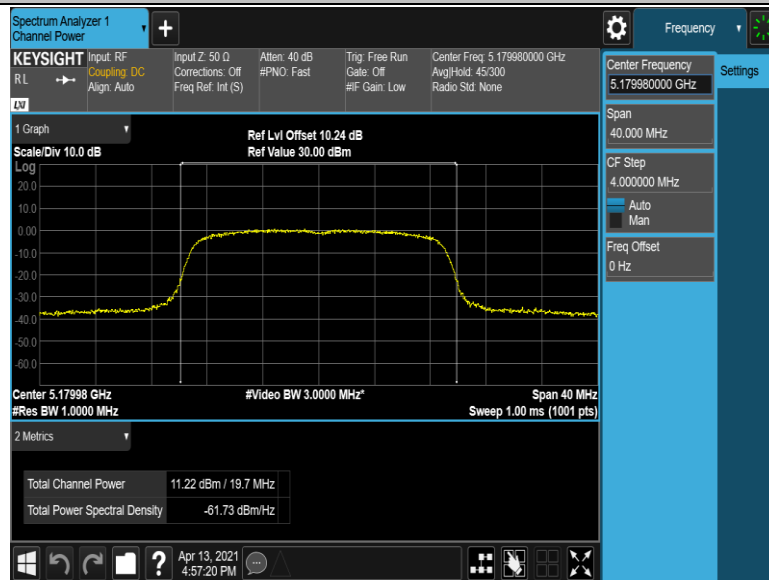
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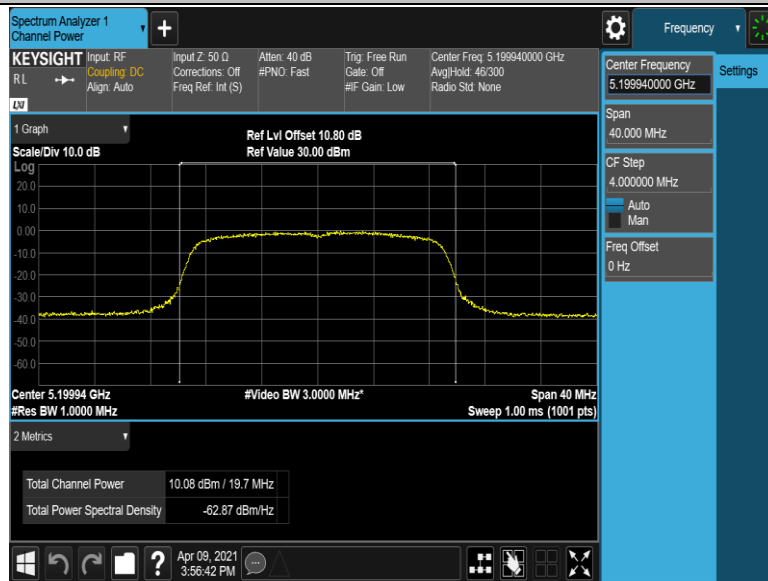
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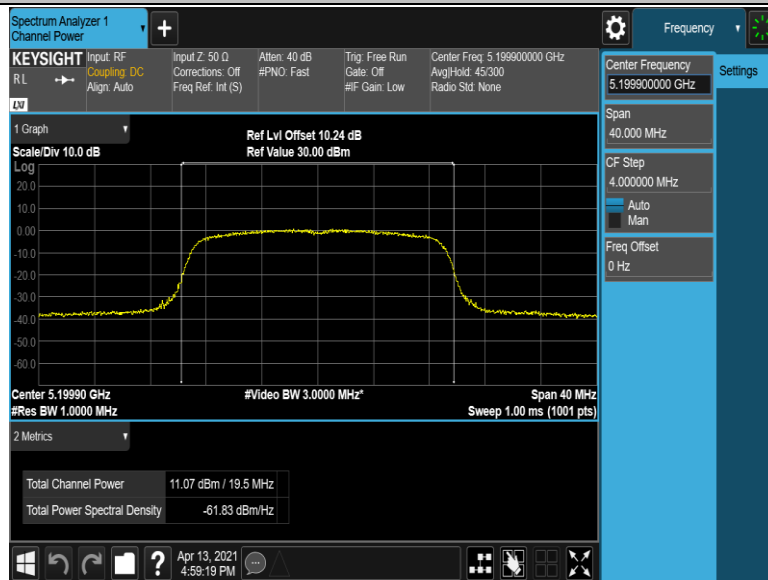
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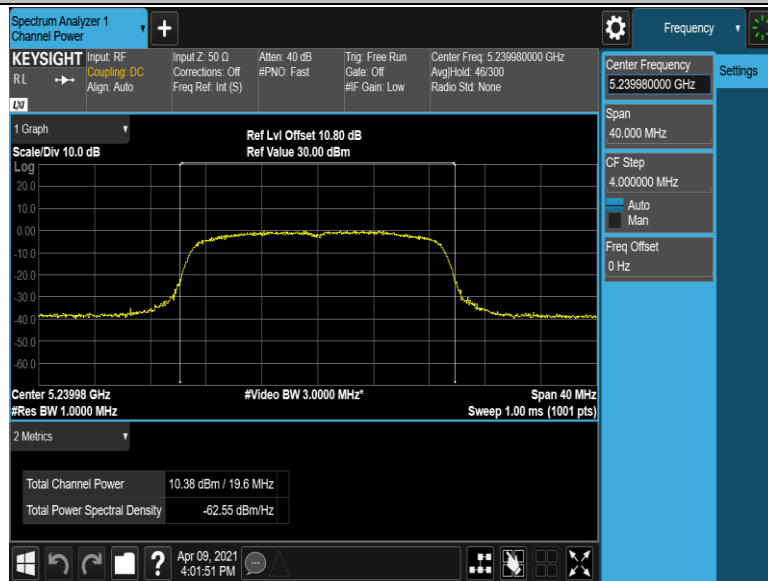
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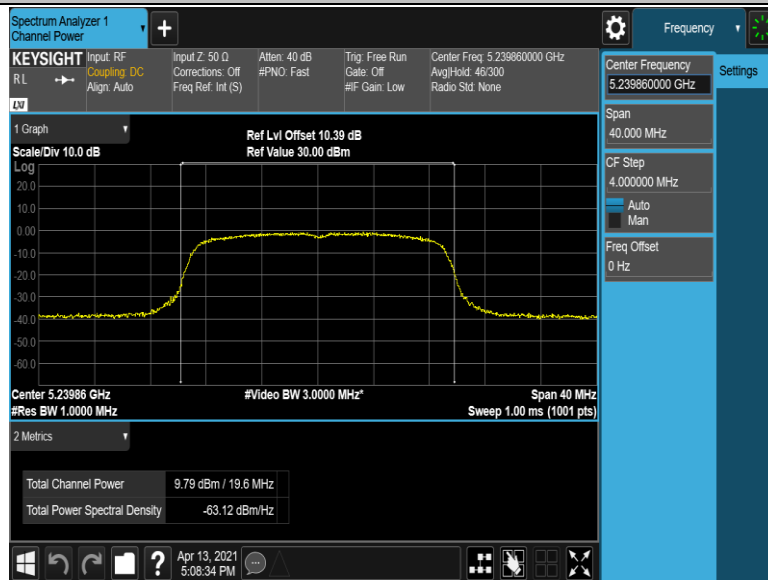
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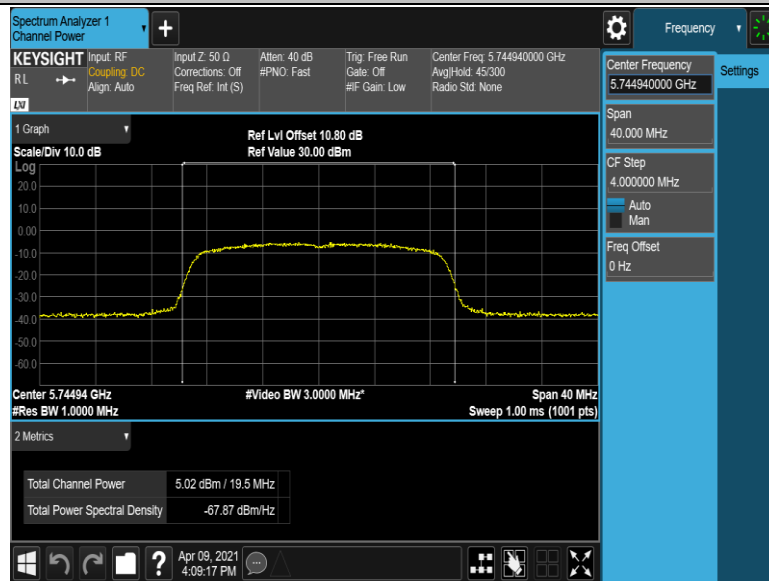
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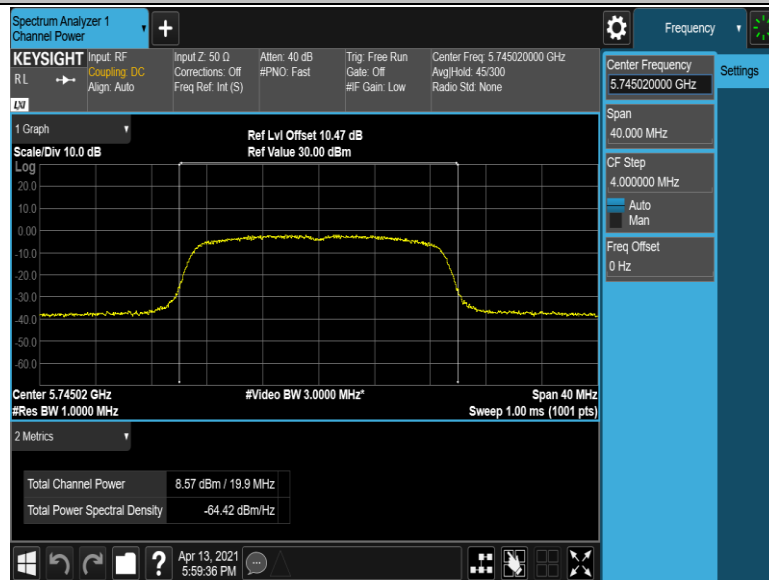
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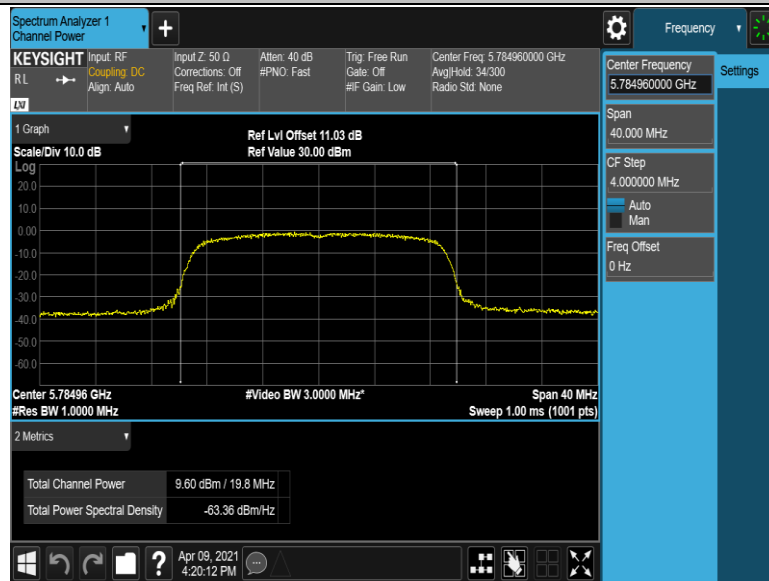
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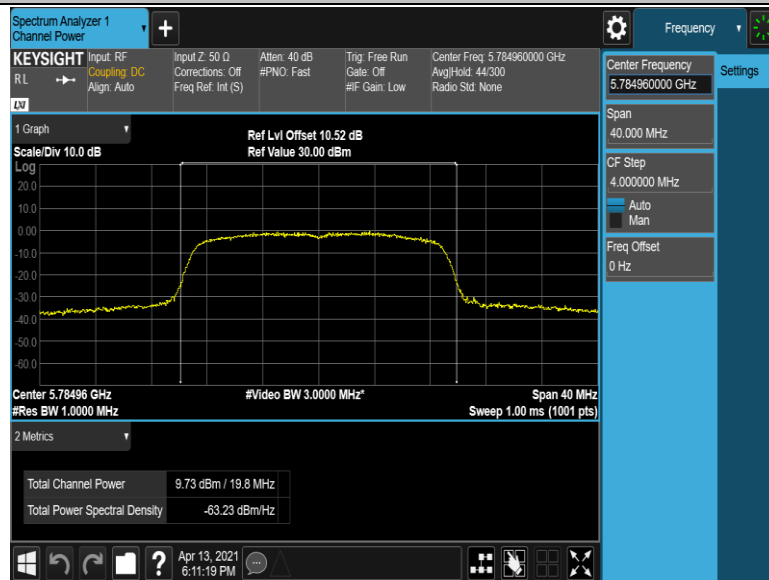
11N20SISO_Ant2_5745



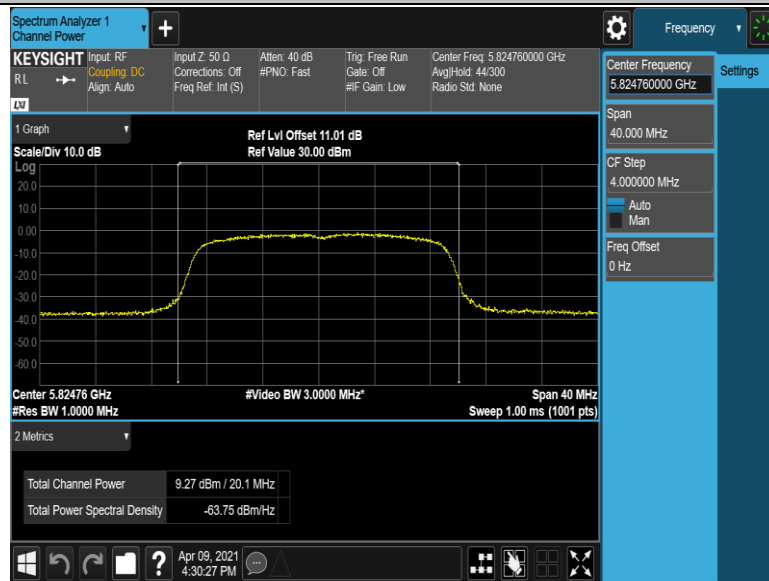
11N20SISO_Ant1_5785



11N20SISO_Ant2_5785



11N20SISO_Ant1_5825



11N20SISO_Ant2_5825

