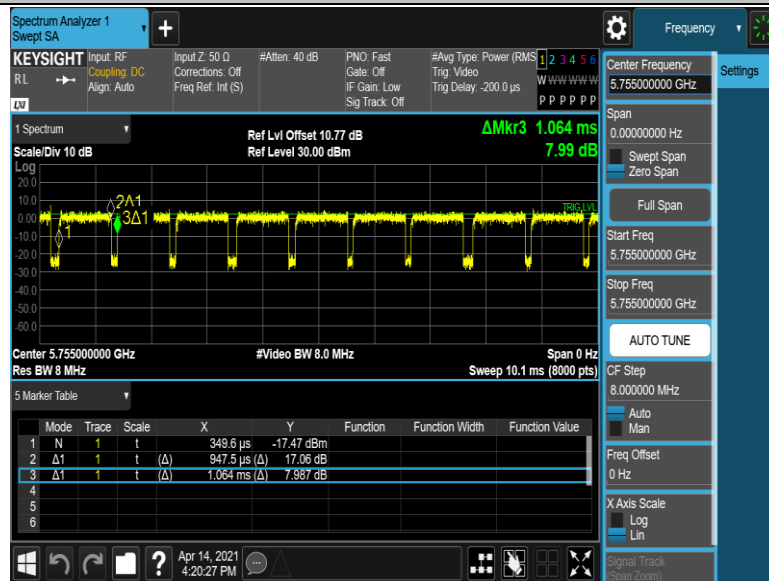
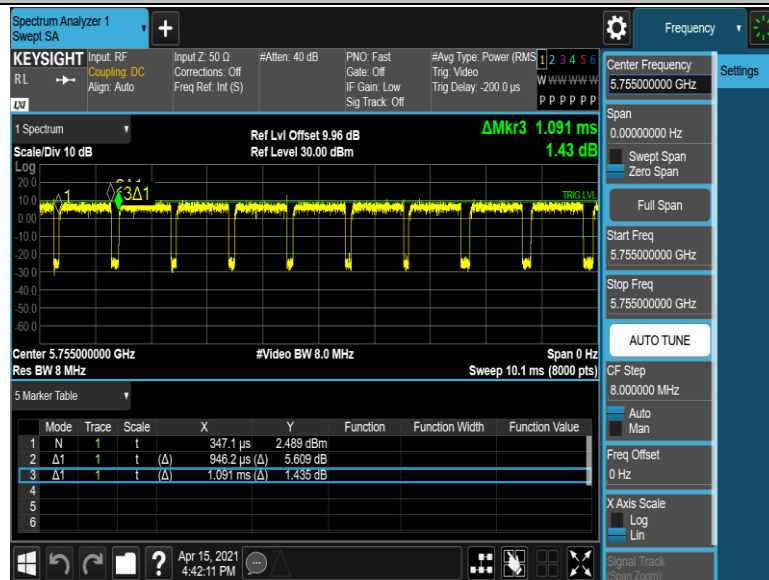


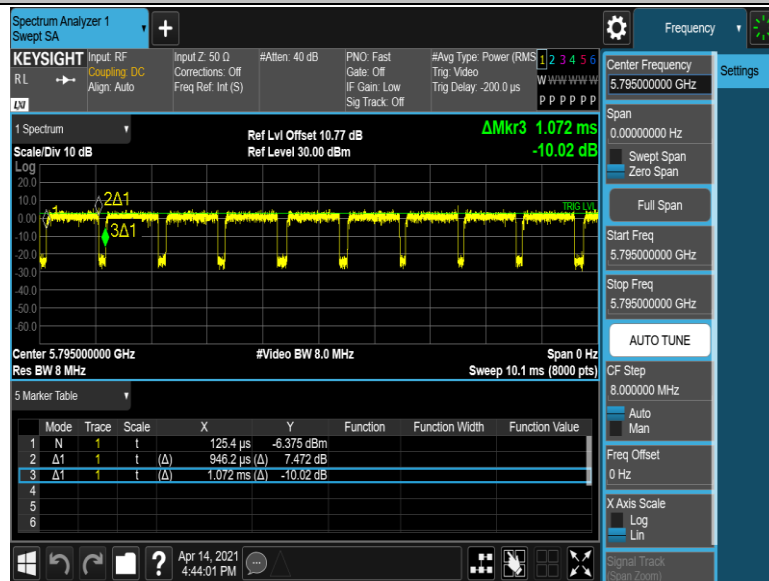
11N40MIMO_Ant1_5755



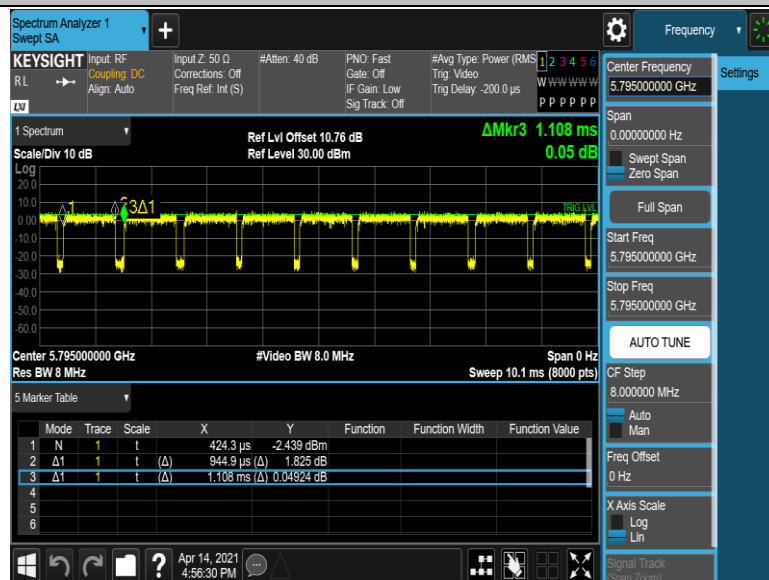
11N40MIMO_Ant2_5755



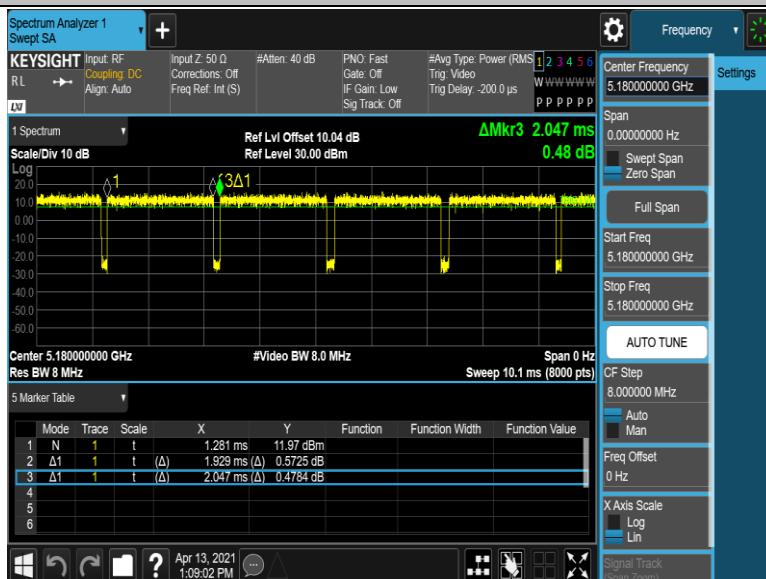
11N40MIMO_Ant1_5795



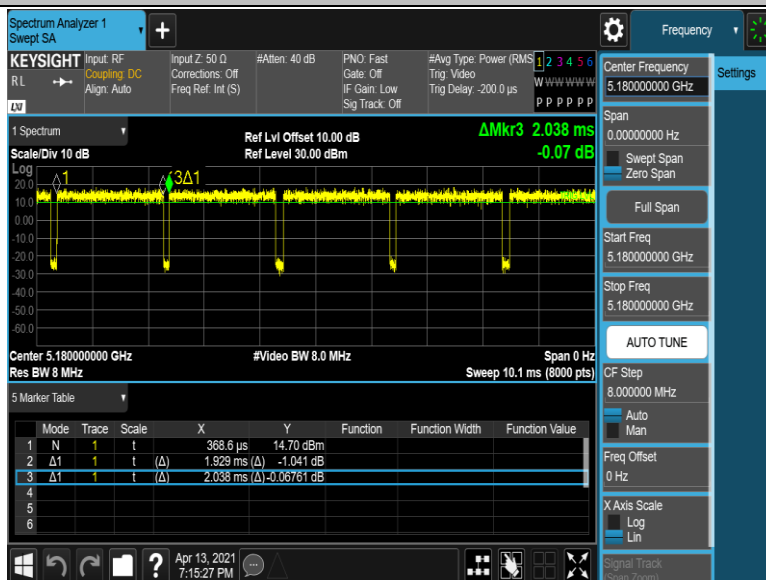
11N40MIMO_Ant2_5795



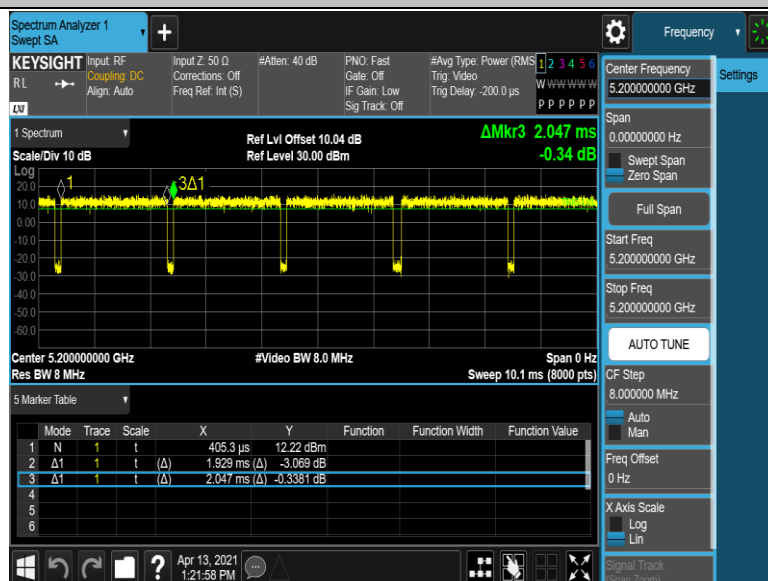
11AC20SISO_Ant1_5180



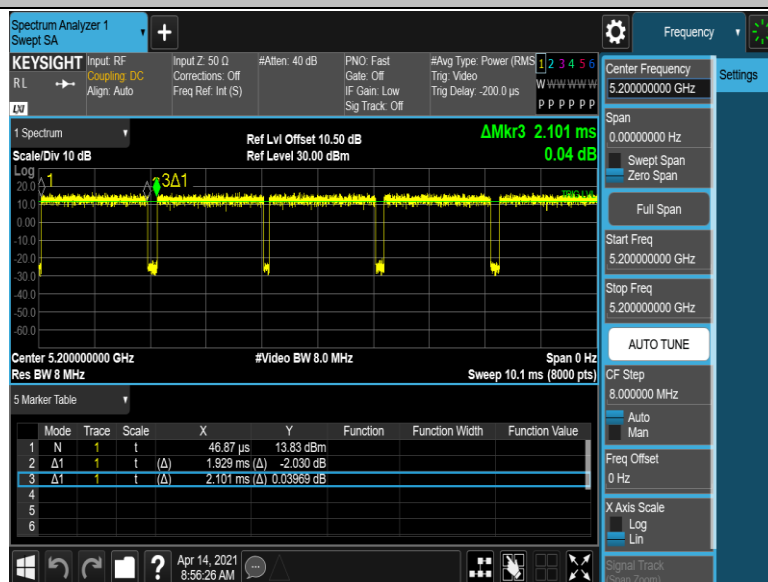
11AC20SISO_Ant2_5180



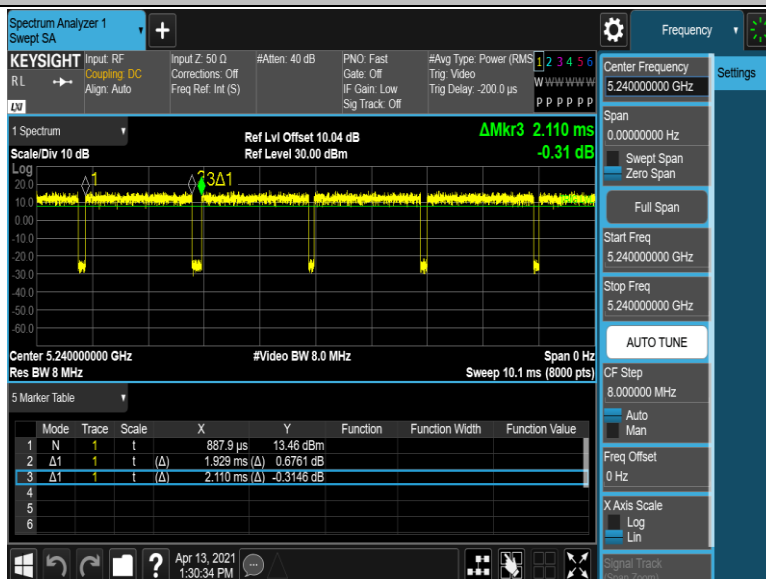
11AC20SISO_Ant1_5200



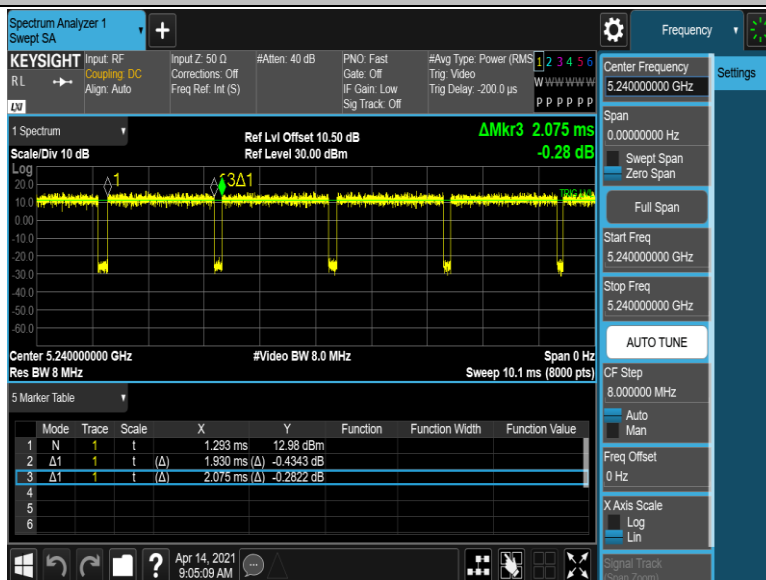
11AC20SISO_Ant2_5200



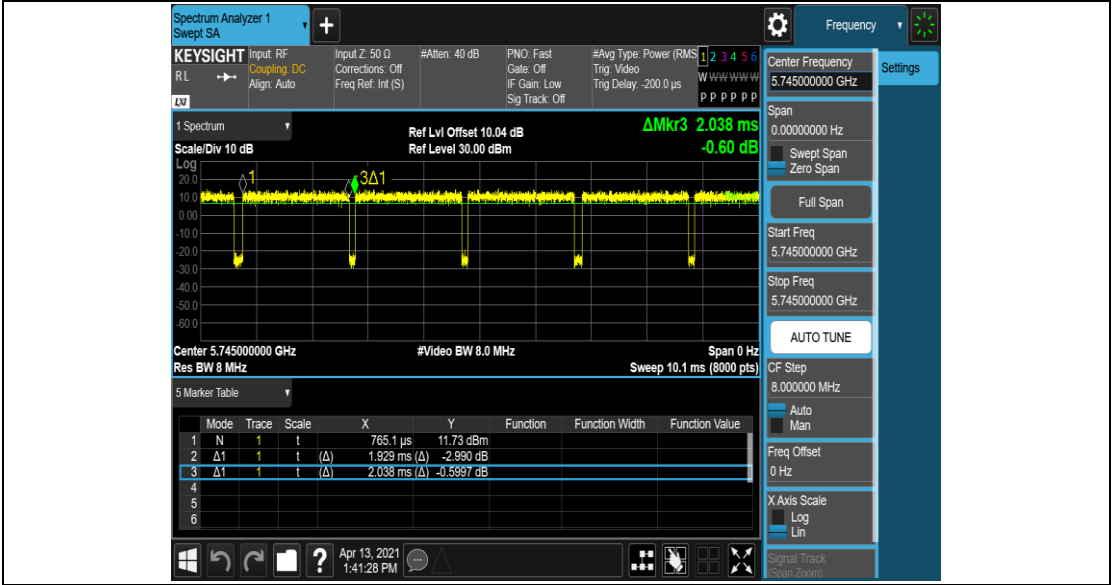
11AC20SISO_Ant1_5240



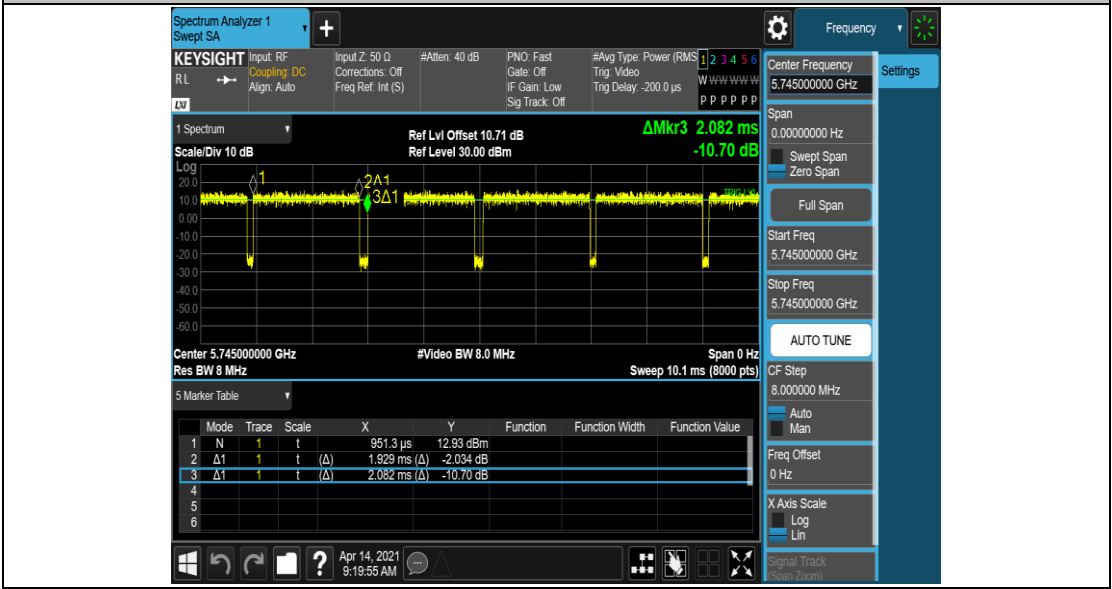
11AC20SISO_Ant2_5240



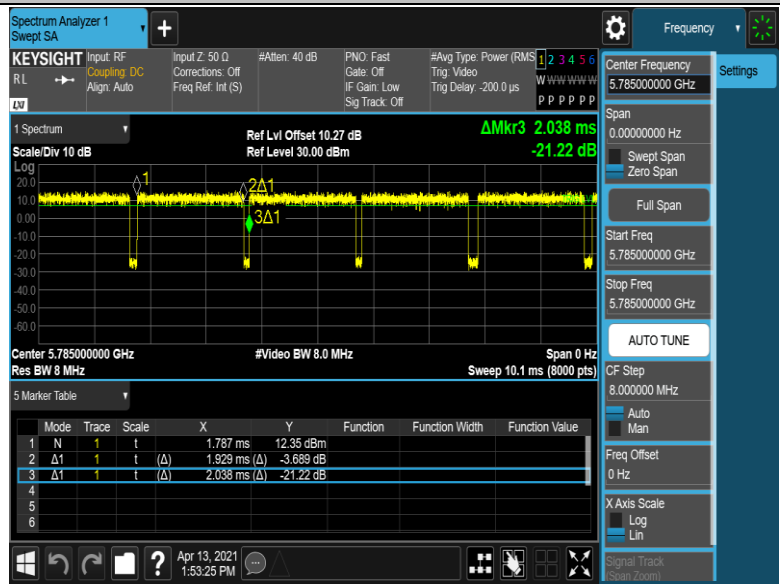
11AC20SISO_Ant1_5745



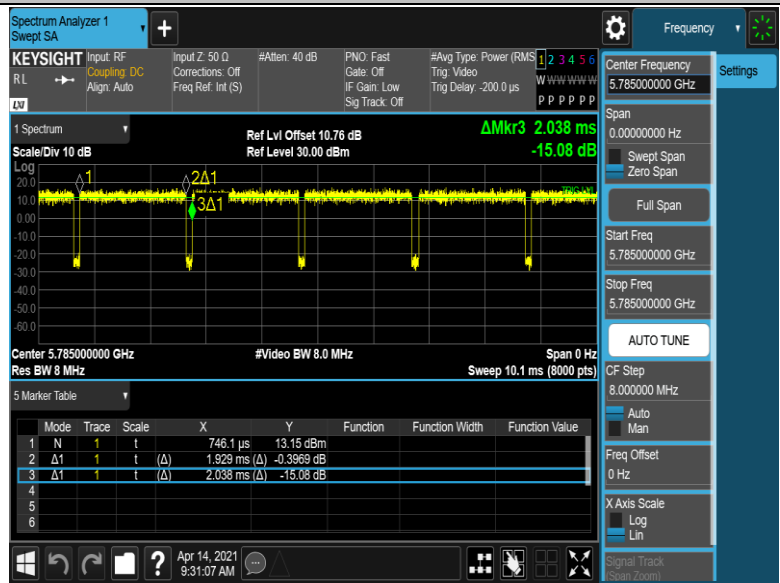
11AC20SISO_Ant2_5745



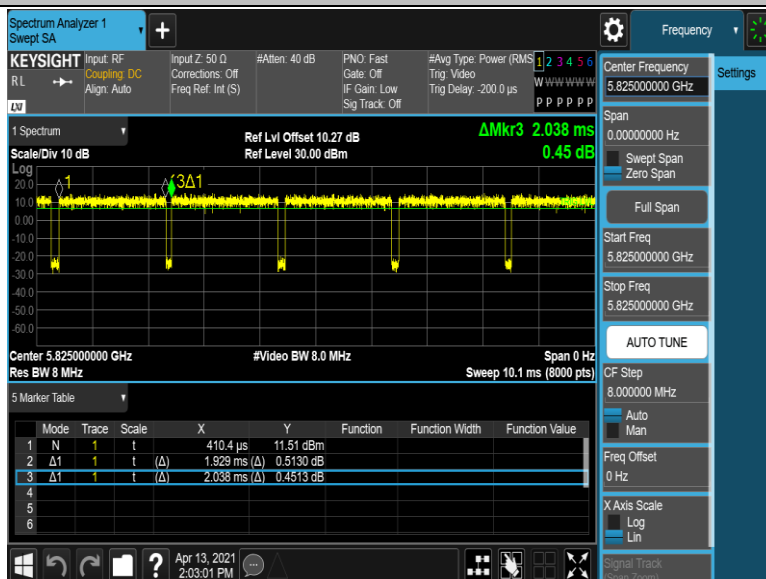
11AC20SISO_Ant1_5785



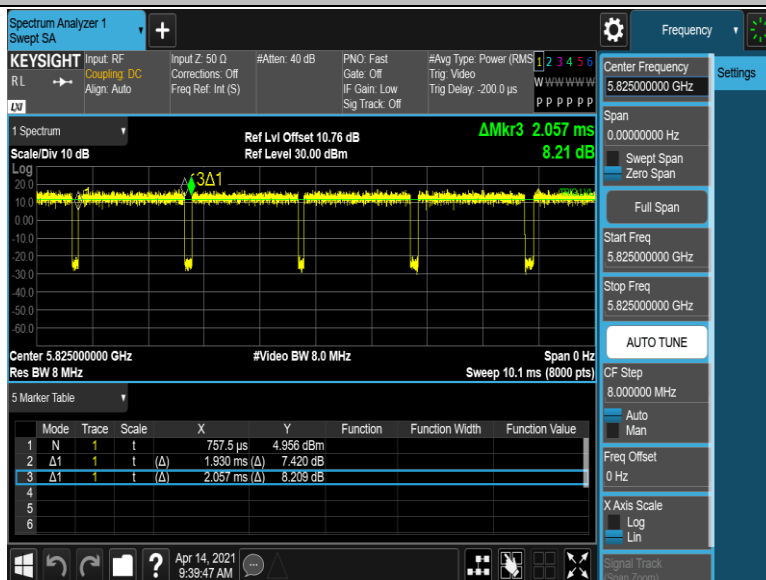
11AC20SISO_Ant2_5785



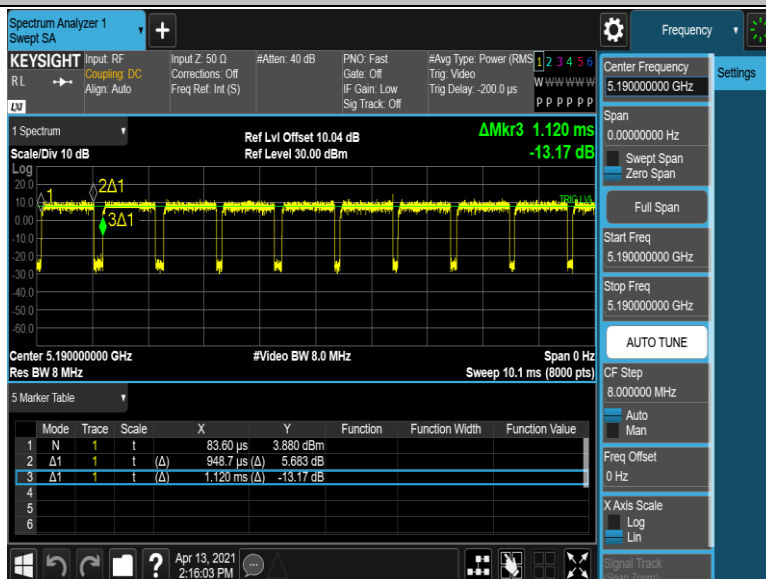
11AC20SISO_Ant1_5825



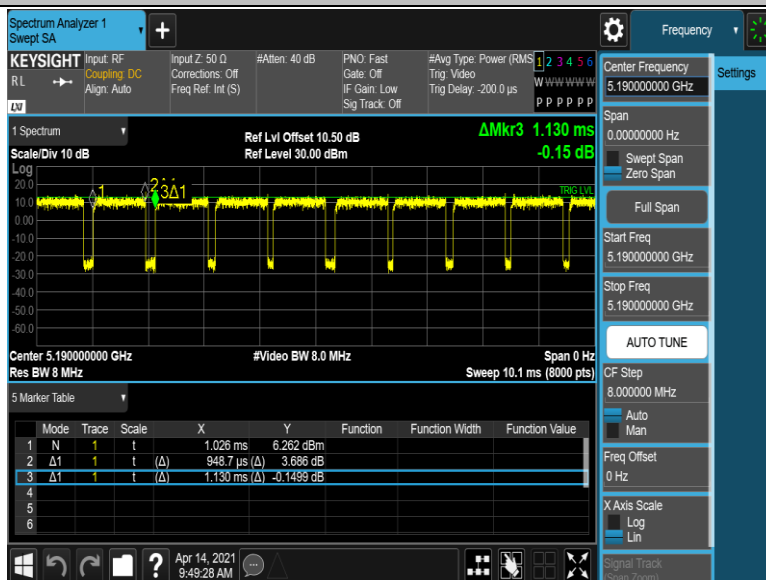
11AC20SISO_Ant2_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant2_5190



[illegible]

11AC40SISO_Ant2_5230

Spectrum Analyzer 1
Swept SA

KEYSIGHT
R/L
LN

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

#Atten: 40 dB

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Trig: Video
Trig Delay: -200.0 μs

W WWW WWW
P P P P P P

Center Frequency
5.230000000 GHz

Span
0.000000000 Hz

Sweep Span
Zero Span

Full Span

Start Freq
5.230000000 GHz

Stop Freq
5.230000000 GHz

AUTO TUNE

CF Step
8.000000 MHz

Freq Offset
0 Hz

X Axis Scale
Log

Signal Track
(Scan Zoom)

1 Spectrum
Ref Lvl Offset 10.50 dB
Scale/Div 10 dB
Ref Level 30.00 dBm

Δmkr3 1.112 ms
0.38 dB

Log

2Δ1
3Δ1

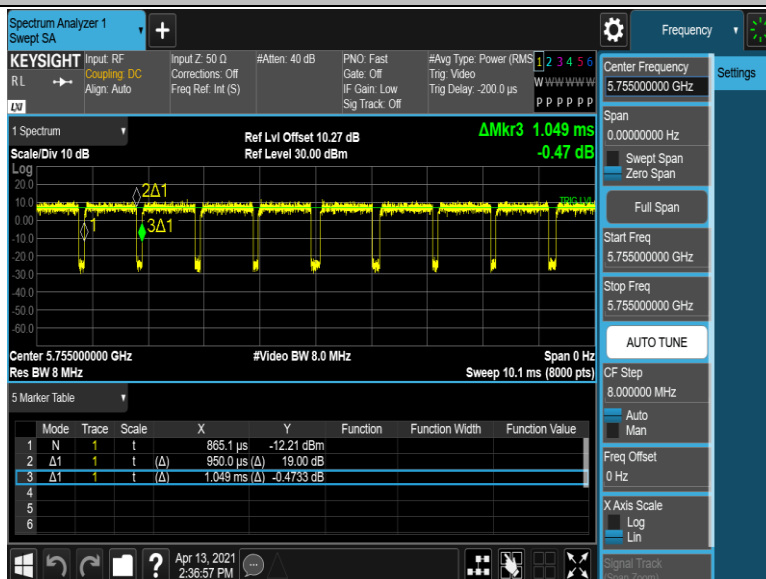
Center 5.230000000 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 10.1 ms (8000 pts)

5 Marker Table

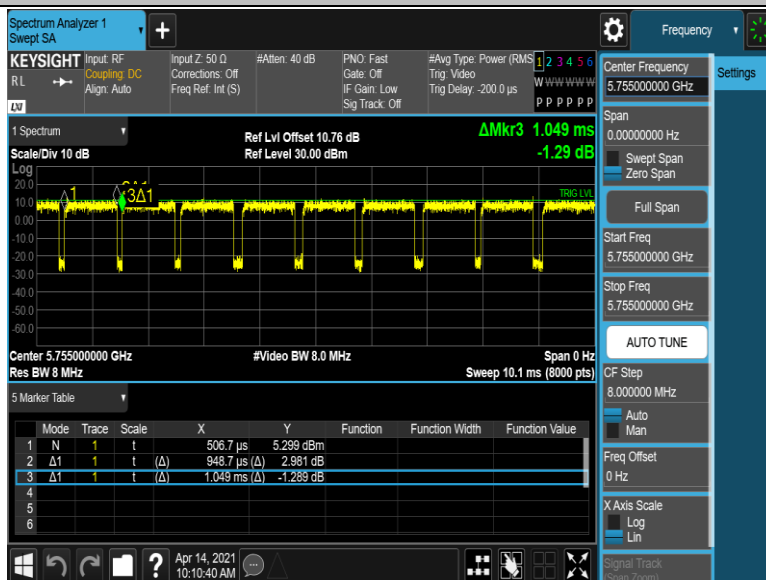
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	51.93 μs	-10.60 dBm			
2	Δ1	1	t (Δ)	950.0 μs (Δ)	20.66 dB			
3	Δ1	1	t (Δ)	1.112 ms (Δ)	0.378 dB			
4								
5								
6								

Apr 14, 2021
10:00:11 AM

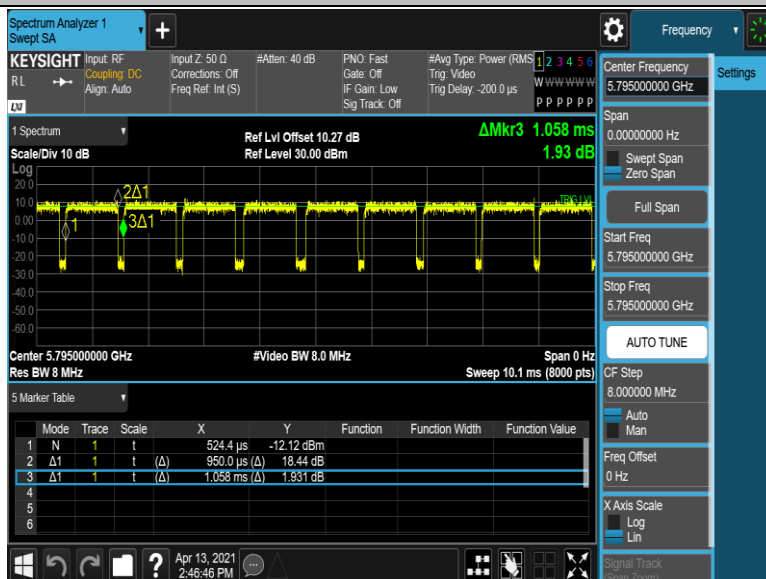
11AC40SISO_Ant1_5755



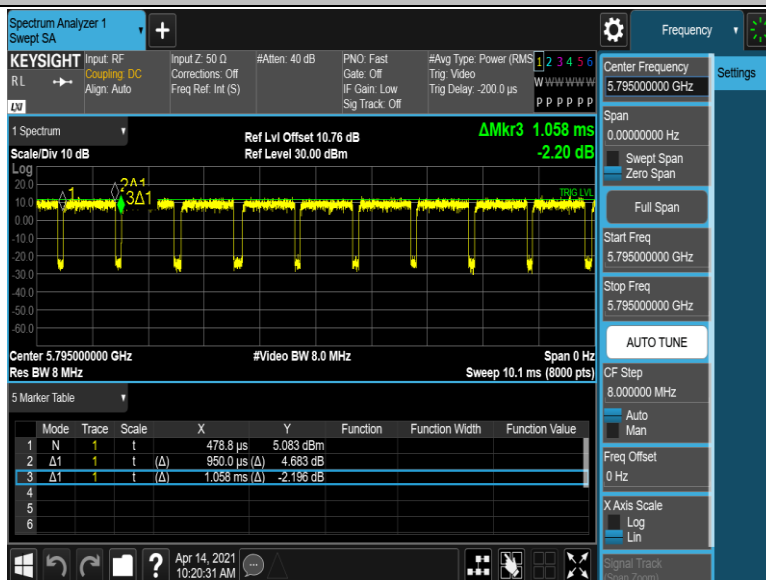
11AC40SISO_Ant2_5755



11AC40SISO_Ant1_5795



11AC40SISO_Ant2_5795



The screenshot displays the Keysight Spectrum Analyzer 1 interface. The main display shows a signal trace with a yellow background and a black grid. The trace is a periodic signal with a peak level of approximately 10 dBm. A marker labeled '3Δ1' is placed on the trace. The top status bar shows the center frequency is 5.210000000 GHz, the span is 8 MHz, and the resolution bandwidth is 8 MHz. The right side of the interface contains various control panels, including the 'Center Frequency' panel, the 'Sweep Span' panel, and the 'Marker' panel. The 'Marker' panel shows a table of 5 markers, with the first three markers being active and labeled '1', '2', and '3'. The table columns are Mode, Trace, Scale, X, Y, Function, Function Width, and Function Value.

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	315.4 μs	1.168 dBm		
2	Δ1	1	t (Δ)	462.3 μs (Δ)	2.087 dB		
3	Δ1	1	t (Δ)	561.1 μs (Δ)	1.817 dB		
4							
5							
6							

The screenshot displays a Keysight Spectrum Analyzer interface. The main display shows a spectrum plot with a yellow signal trace. A marker labeled 'Δ1' is positioned at 562.4 μs and 12.69 dB. The plot is titled '1 Spectrum' and 'Scale/Div 10 dB'. The center frequency is 5.210000000 GHz, and the span is 0 Hz. The resolution bandwidth (Res BW) is 8 MHz, and the video bandwidth (Video BW) is 8.0 MHz. The sweep rate is 10.1 ms (8000 pts).

The top panel shows the 'KEYSIGHT' logo and various settings: Input RF, Coupling DC, Corrections Off, Freq Ref Int (S), #Atten: 40 dB, PNO: Fast, Gate: Off, IF Gain: Low, Sig Track: Off, #Avg Type: Power (RMS), Trig Video, Trig Delay: -200.0 μs, and a status bar with 'W WWW WWW' and 'P P P P P P'.

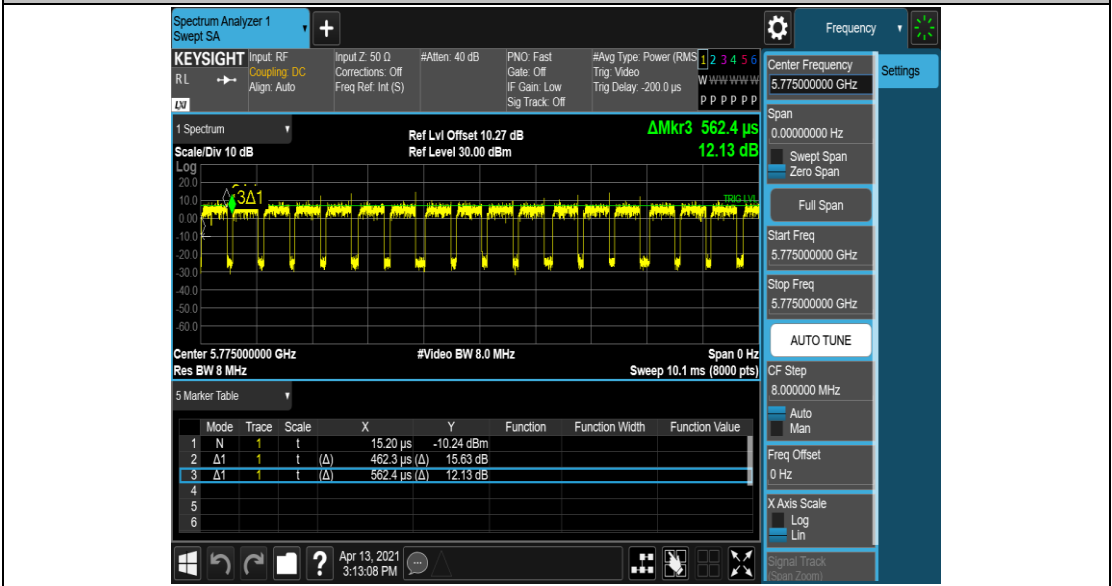
The right panel contains the 'Frequency' section with a 'Center Frequency' of 5.210000000 GHz and a 'Sweep Span' of Zero Span. Below this is the 'Settings' section with 'Start Freq' and 'Stop Freq' both at 5.210000000 GHz, and an 'AUTO TUNE' button. The 'CF Step' is 8.000000 MHz, and the 'Freq Offset' is 0 Hz. The 'X Axis Scale' is set to 'Lin'. The 'Signal Track' is 'Scan Zoom'.

The bottom panel shows a '5 Marker Table' with the following data:

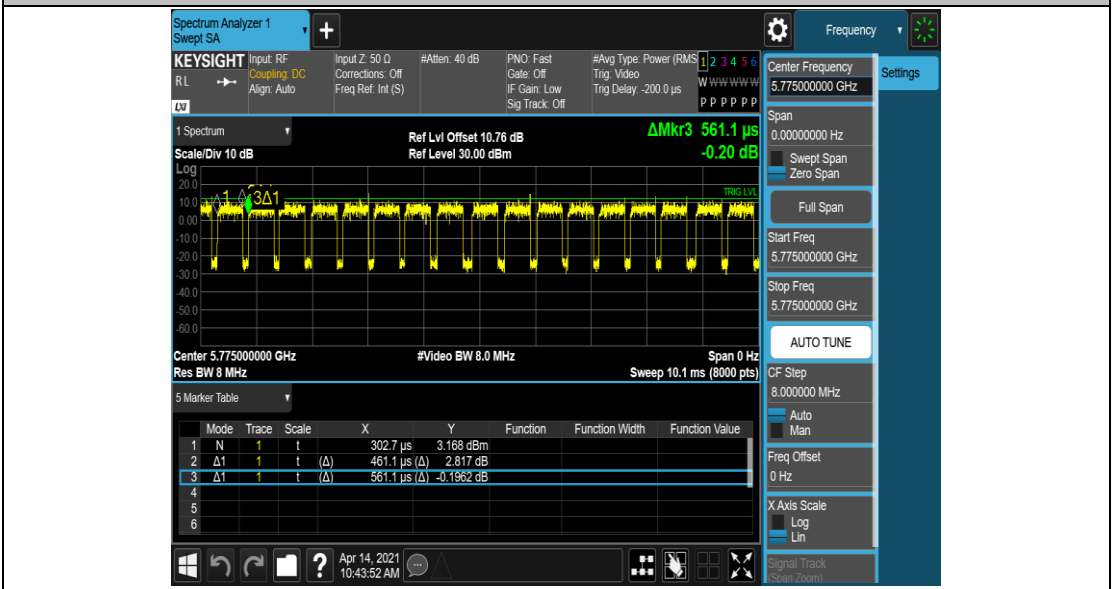
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	292.6 μs	-8.74 dBm		
2	Δ1	1	t (Δ)	462.3 μs (Δ)	16.41 dB		
3	Δ1	1	t (Δ)	562.4 μs (Δ)	12.69 dB		
4							
5							
6							

The bottom status bar shows the date and time: 'Apr 14, 2021 10:31:04 AM'.

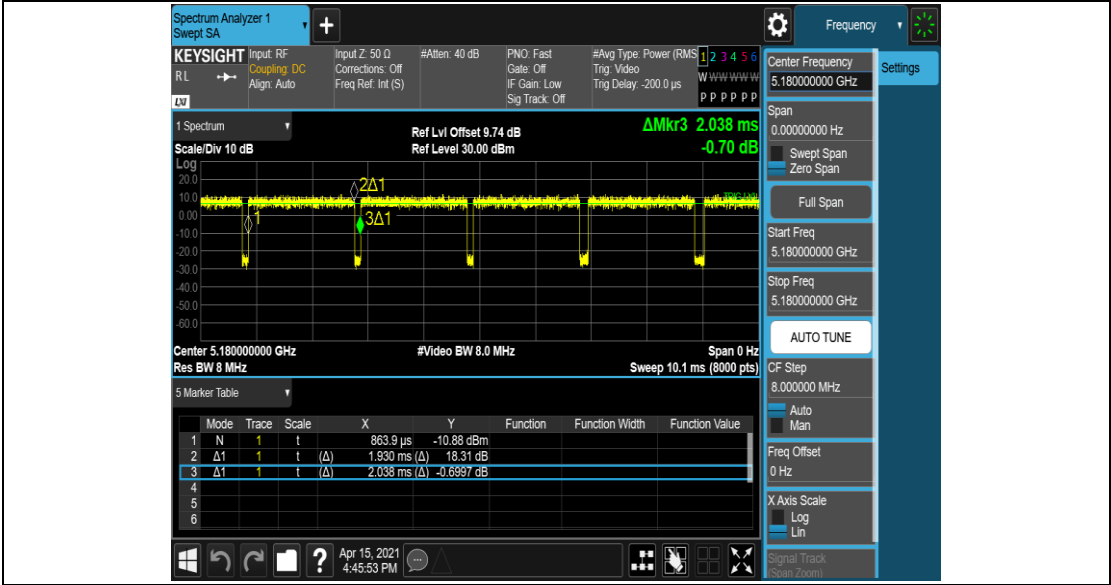
11AC80SISO_Ant1_5775



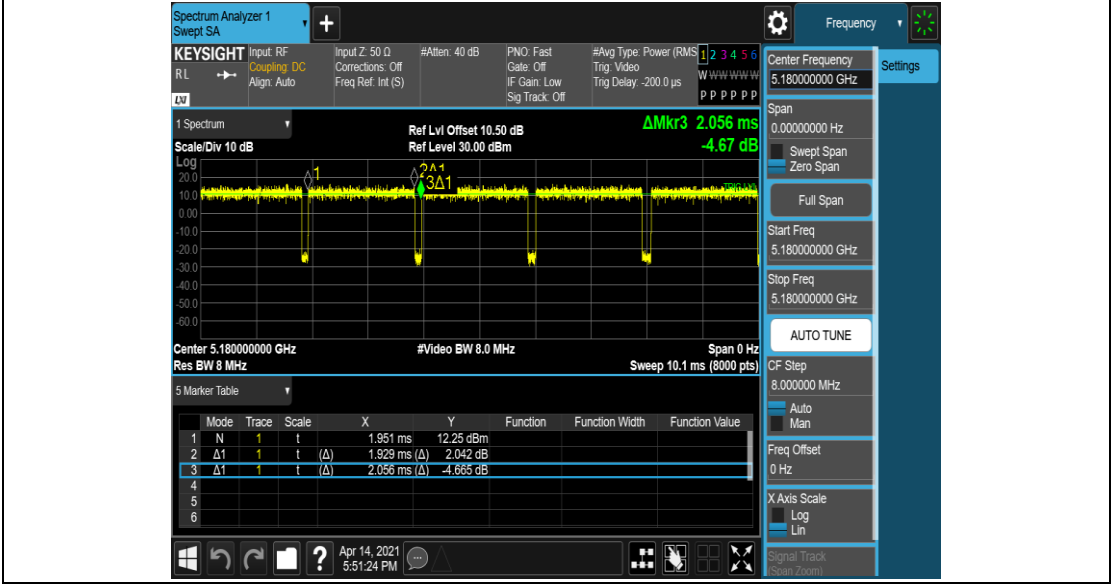
11AC80SISO_Ant2_5775



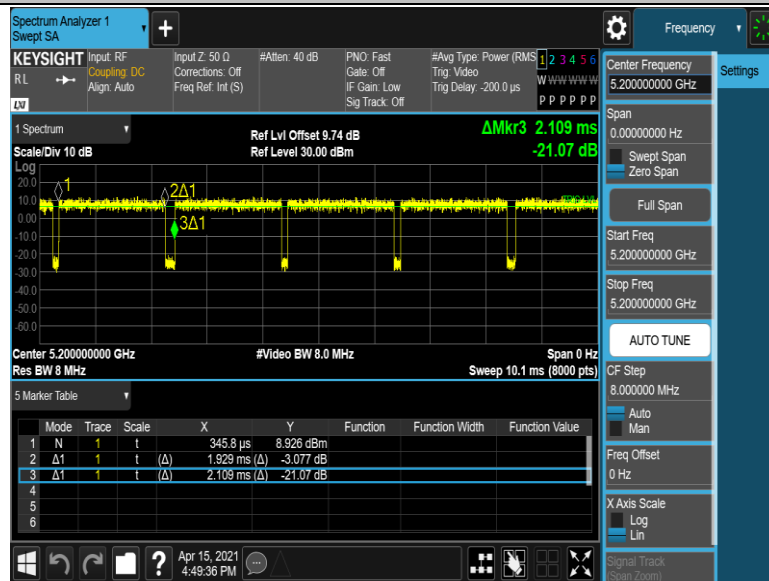
11AC20MIMO_Ant1_5180



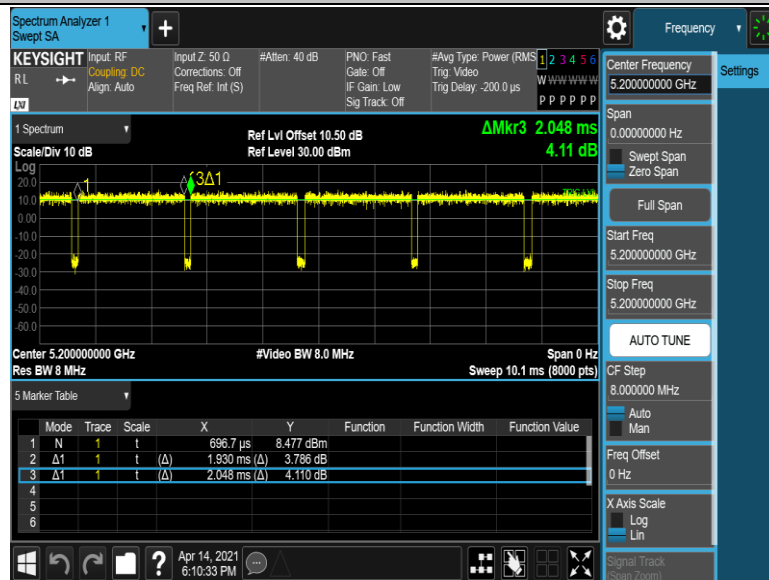
11AC20MIMO_Ant2_5180



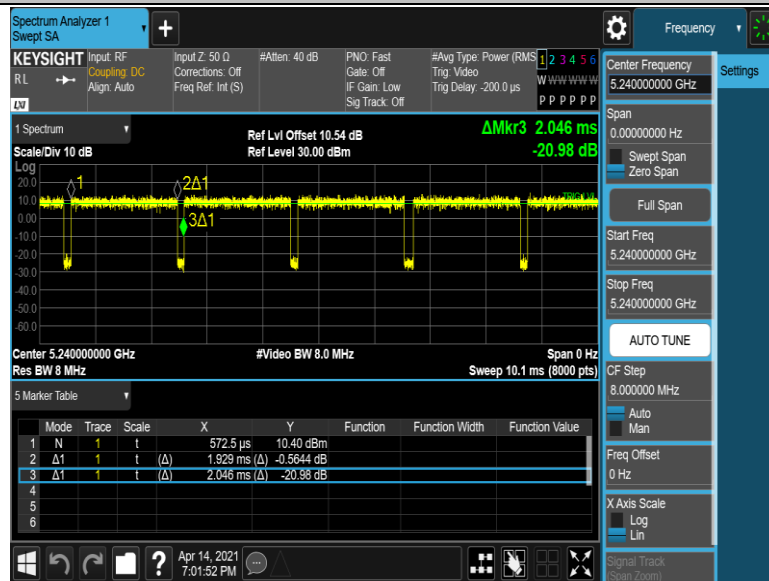
11AC20MIMO_Ant1_5200



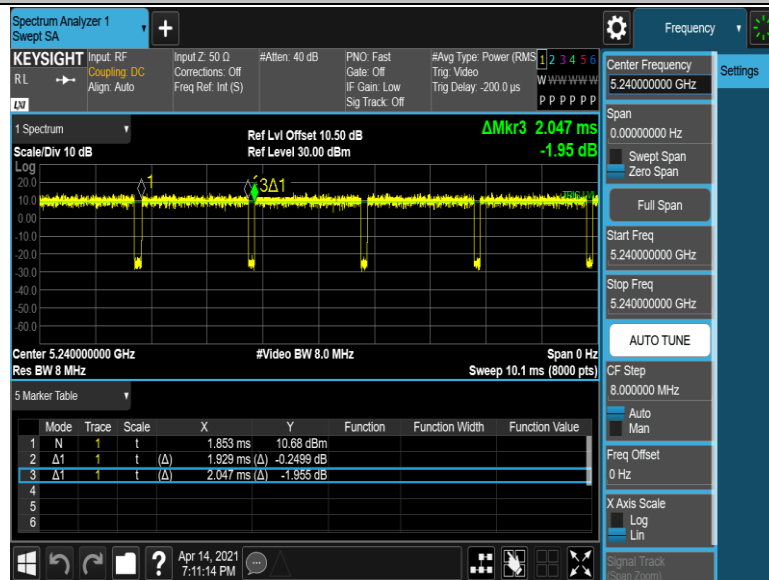
11AC20MIMO_Ant2_5200



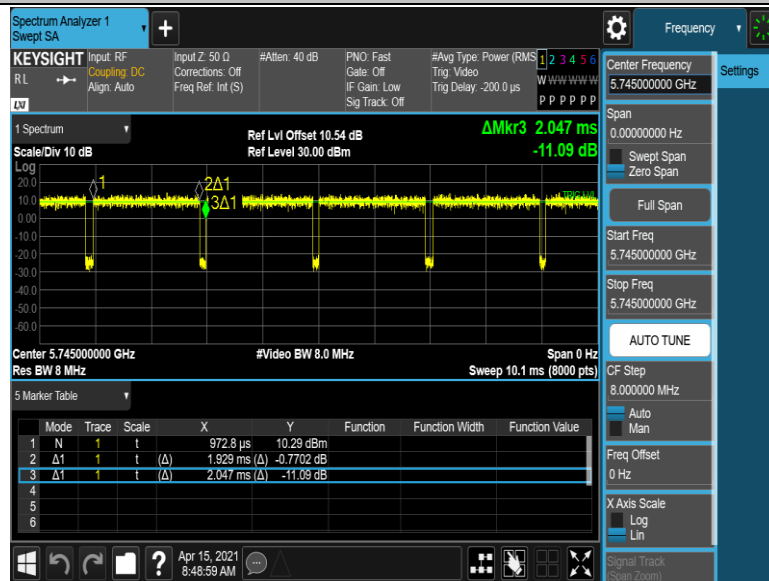
11AC20MIMO_Ant1_5240



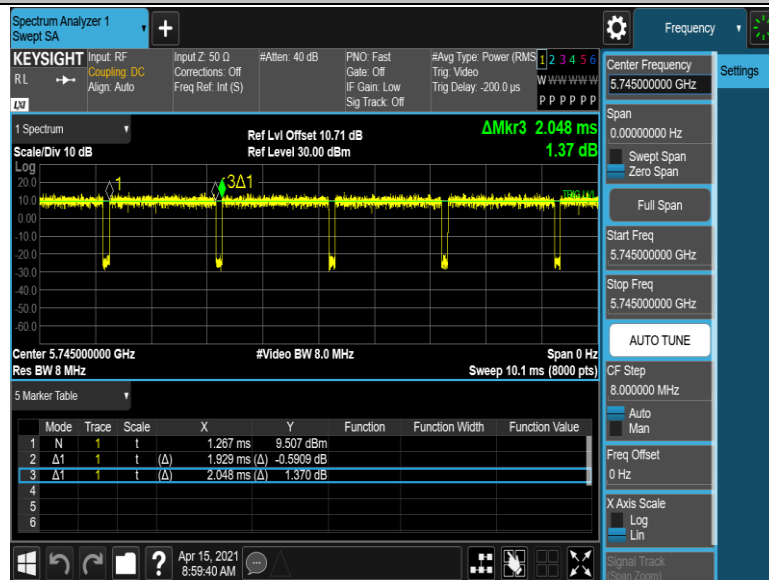
11AC20MIMO_Ant2_5240



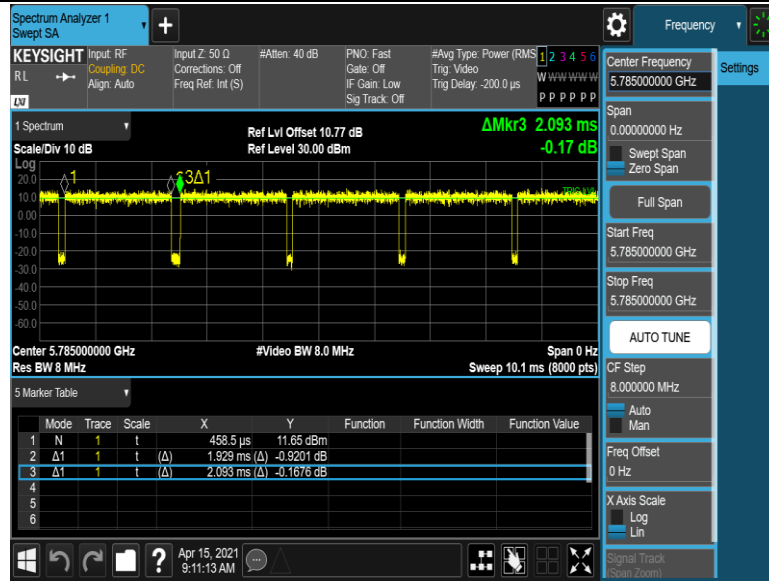
11AC20MIMO_Ant1_5745



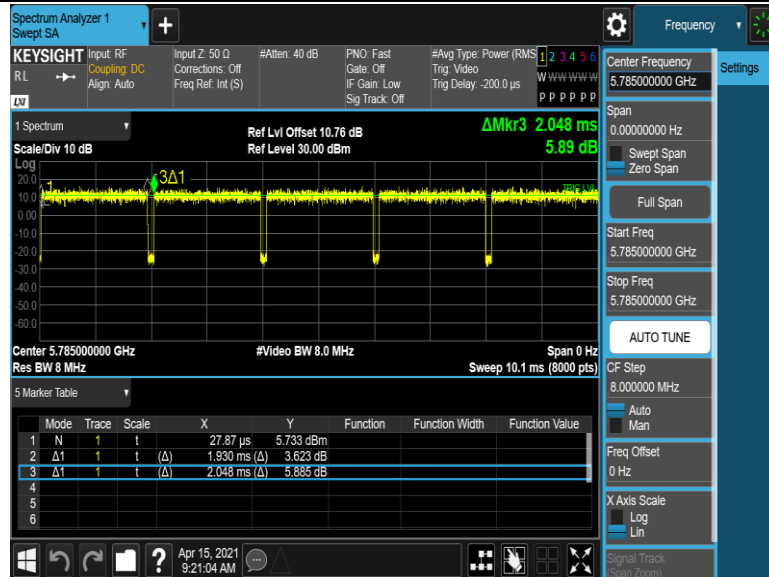
11AC20MIMO_Ant2_5745



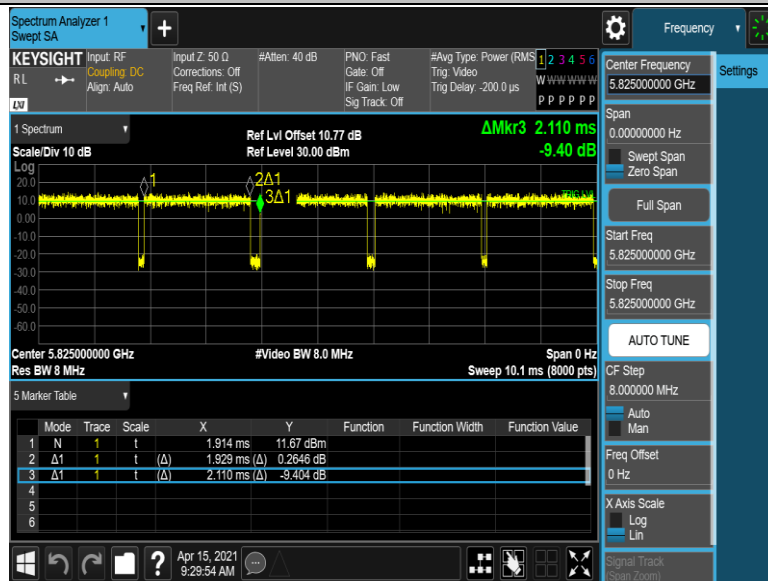
11AC20MIMO_Ant1_5785



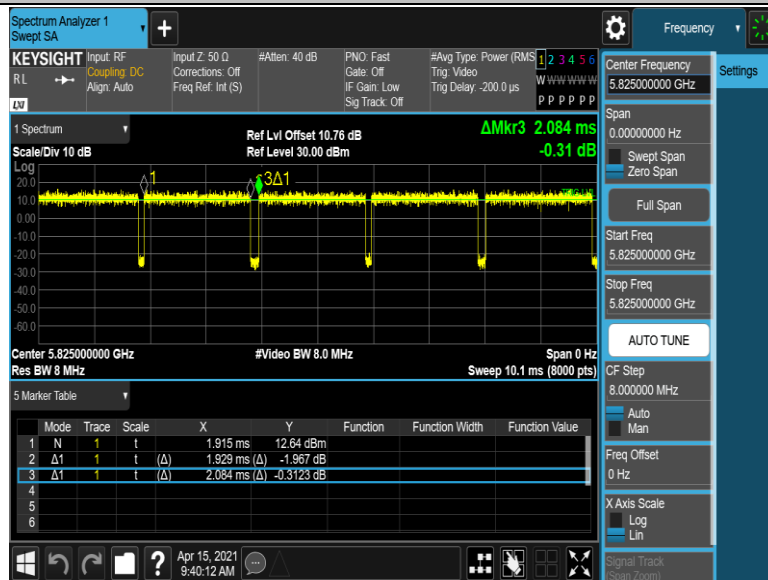
11AC20MIMO_Ant2_5785



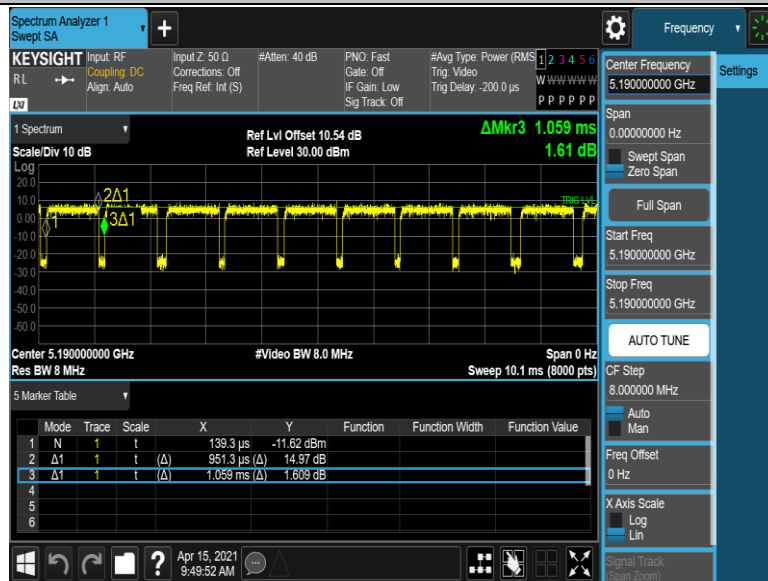
11AC20MIMO_Ant1_5825



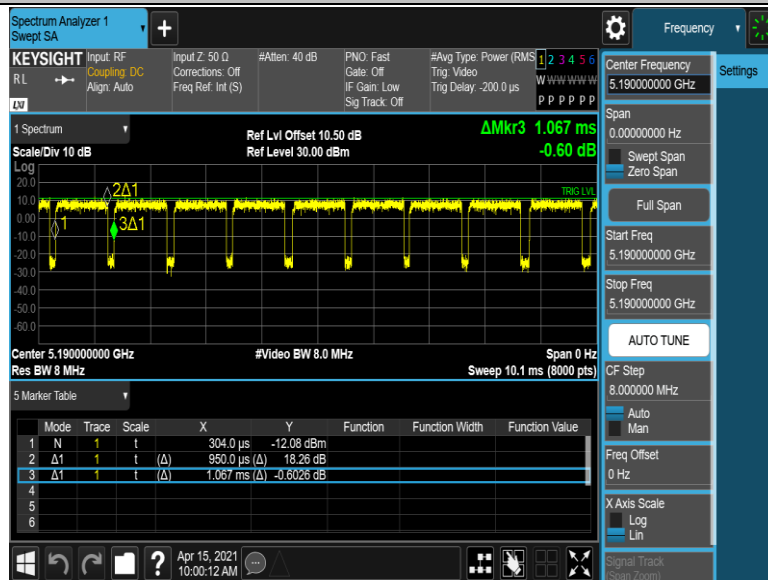
11AC20MIMO_Ant2_5825



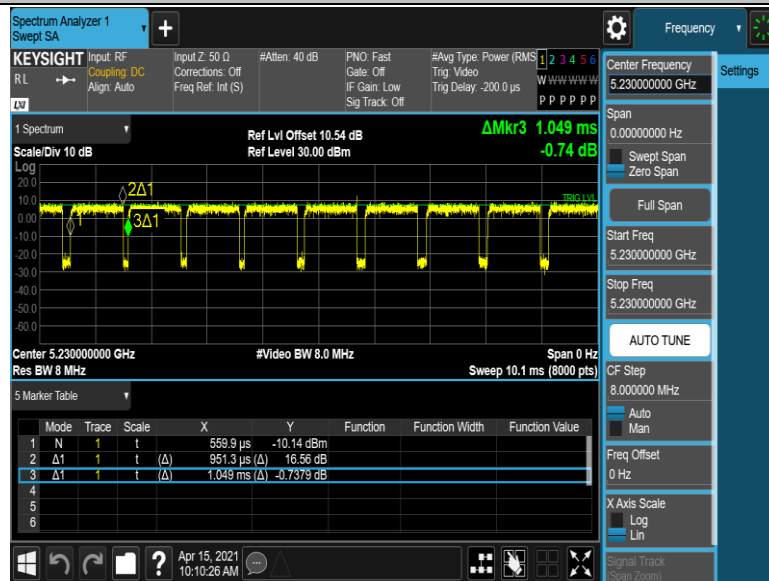
11AC40MIMO_Ant1_5190



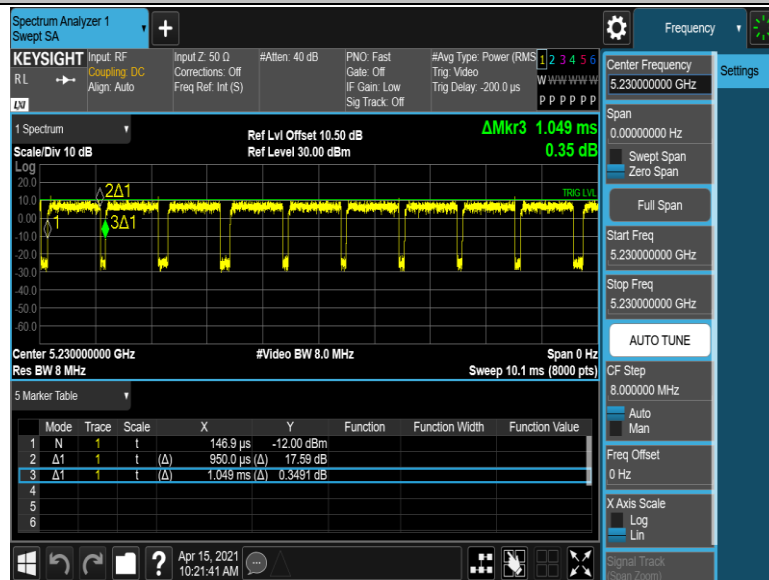
11AC40MIMO_Ant2_5190



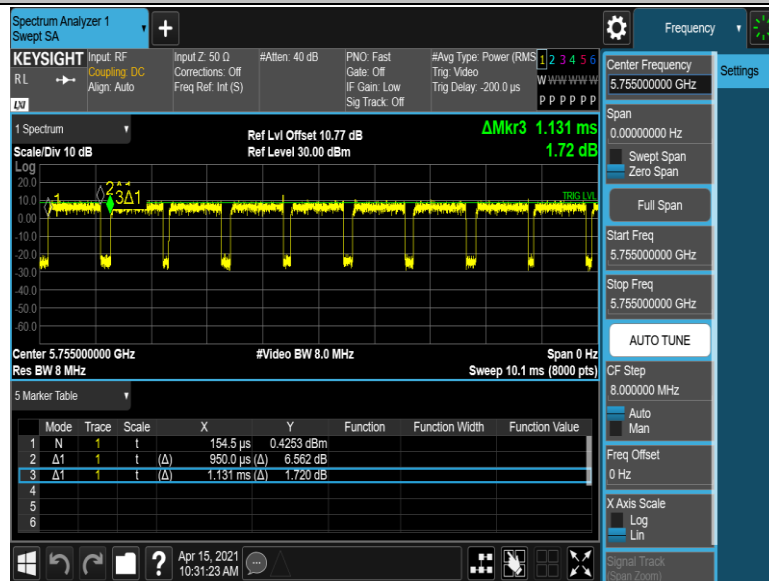
11AC40MIMO_Ant1_5230



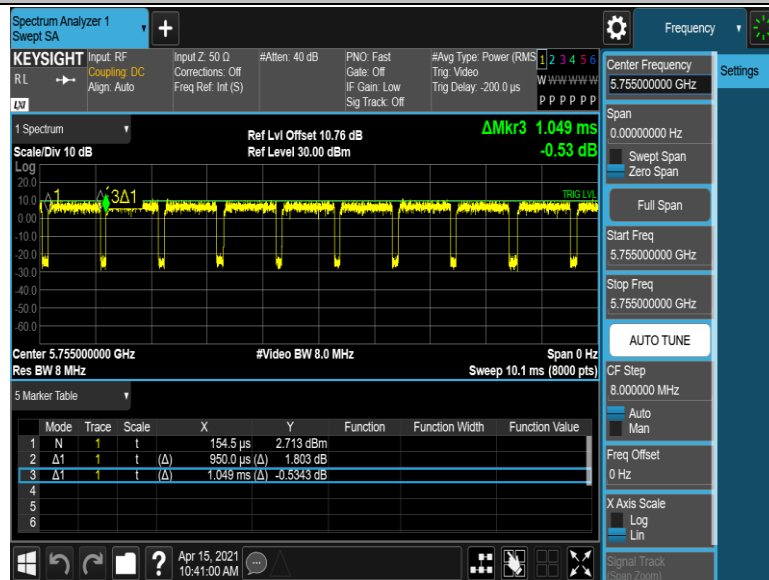
11AC40MIMO_Ant2_5230



11AC40MIMO_Ant1_5755



11AC40MIMO_Ant2_5755



11AC40MIMO_Ant1_5795

Spectrum Analyzer 1
Swept SA

KEYSIGHT
RL $\rightarrow$ Coupling DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

#Atten: 40 dB

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Trig: Video
Trig Delay: -200.0 μ s

1 2 3 4 5 6
W W W W W W
P P P P P P

Center Frequency
5.795000000 GHz

Settings

Span
0.000000000 Hz

Sweep Span
Zero Span

Full Span

Start Freq
5.795000000 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
(Scan 200ms)

1 Spectrum
Ref Lvl Offset 10.77 dB
Scale/Div 10 dB
Ref Level 30.00 dBm

Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

1
2
3
4
5
6

1
2
3
4
5
6

Center 5.795000000 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 10.1 ms (8000 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	152.0 μ s	3.135 dBm			
2	Δ 1	1	t (Δ)	948.7 μ s (Δ)	1.682 dB			
3	Δ 1	1	t (Δ)	1.103 ms (Δ)	-0.3645 dB			
4								
5								
6								

Apr 15, 2021
10:54:09 AM

The screenshot displays a Keysight Spectrum Analyzer interface. The main display area shows a spectrum plot with a yellow signal trace. The plot is titled "1 Spectrum" and "Scale/Div 10 dB". The signal is a periodic waveform with a period of 1.094 ms, as indicated by the "ΔMkr3 1.094 ms" label. The plot also shows "Ref Lvl Offset 10.76 dB" and "Ref Level 30.00 dBm". The plot is divided into 10 dB/div, and the signal is centered at 5.795000000 GHz. The plot shows a signal with a period of 1.094 ms, as indicated by the "ΔMkr3 1.094 ms" label. The plot also shows "Ref Lvl Offset 10.76 dB" and "Ref Level 30.00 dBm". The plot is divided into 10 dB/div, and the signal is centered at 5.795000000 GHz. The plot shows a signal with a period of 1.094 ms, as indicated by the "ΔMkr3 1.094 ms" label. The plot also shows "Ref Lvl Offset 10.76 dB" and "Ref Level 30.00 dBm". The plot is divided into 10 dB/div, and the signal is centered at 5.795000000 GHz.

The top control bar includes the following settings:

- Spectrum Analyzer 1
- Swept SA
- Input: RF
- Coupling: DC
- Align: Auto
- Input Z: 50 Ω
- Corrections: Off
- Freq Ref: Int (S)
- #Atten: 40 dB
- PNO: Fast
- Gate: Off
- IF Gain: Low
- Sig Track: Off
- #Avg Type: Power (RMS)
- Trig: Video
- Trig Delay: -200.0 μs
- WWW WWW
- PPP PPP

The right-hand sidebar includes the following settings:

- Center Frequency: 5.795000000 GHz
- Span: 0.00000000 Hz
- Sweep Span: Zero Span
- Full Span
- Start Freq: 5.795000000 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 (Scan Zoom)

The bottom status bar includes the following information:

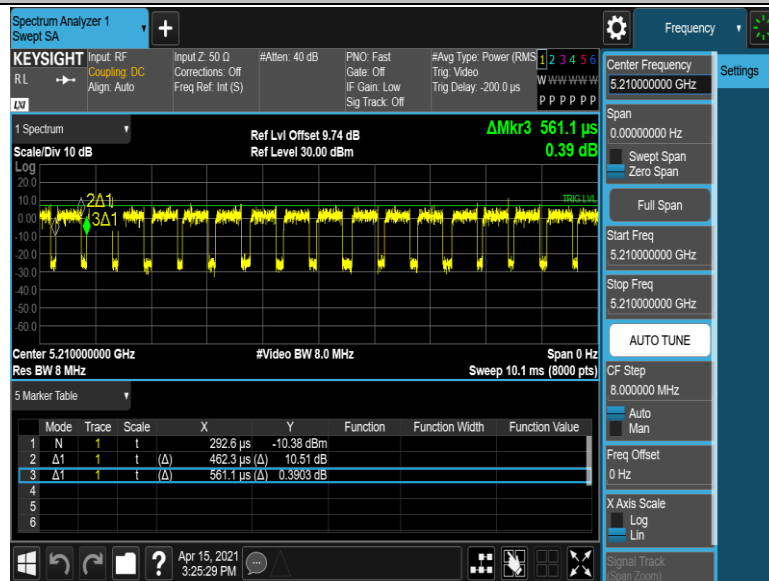
- Center 5.795000000 GHz
- #Video BW 8.0 MHz
- Span 0 Hz
- Res BW 8 MHz
- Sweep 10.1 ms (8000 pts)
- 5 Marker Table

The 5 Marker Table is as follows:

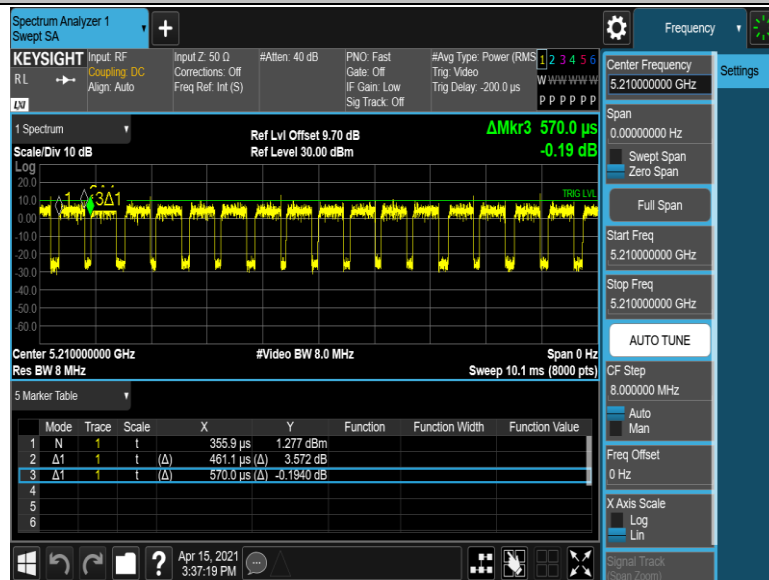
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	727.1 μs	3.437 dBm			
2	Δ1	1	t (Δ)	948.7 μs (Δ)	5.843 dB			
3	Δ1	1	t (Δ)	1.094 ms (Δ)	0.2837 dB			
4								
5								
6								

The bottom status bar also includes the date and time: Apr 15, 2021 11:03:54 AM.

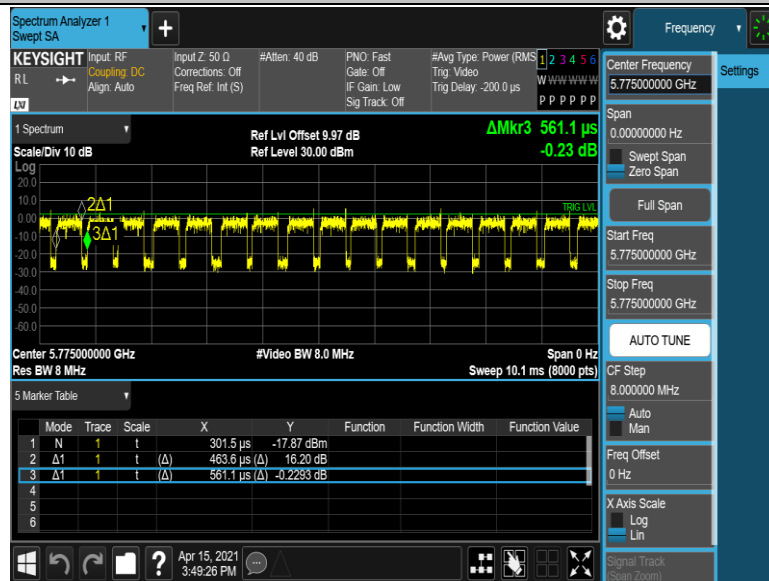
11AC80MIMO_Ant1_5210



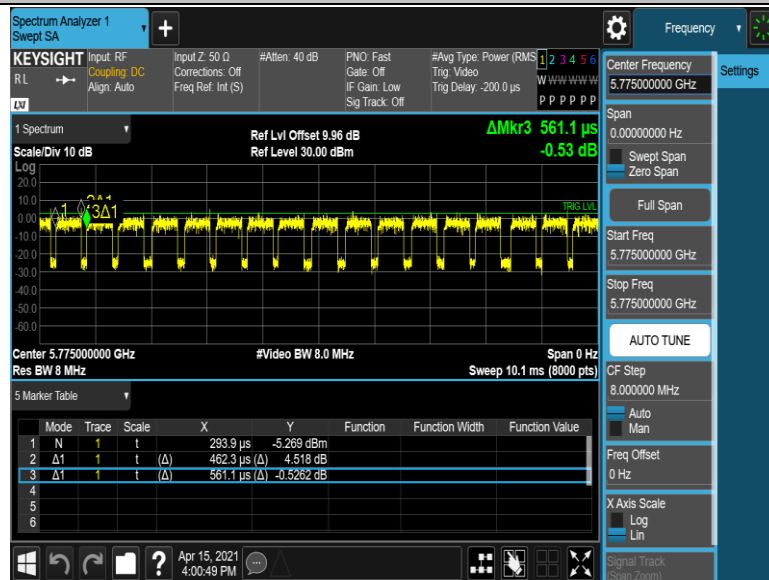
11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5775



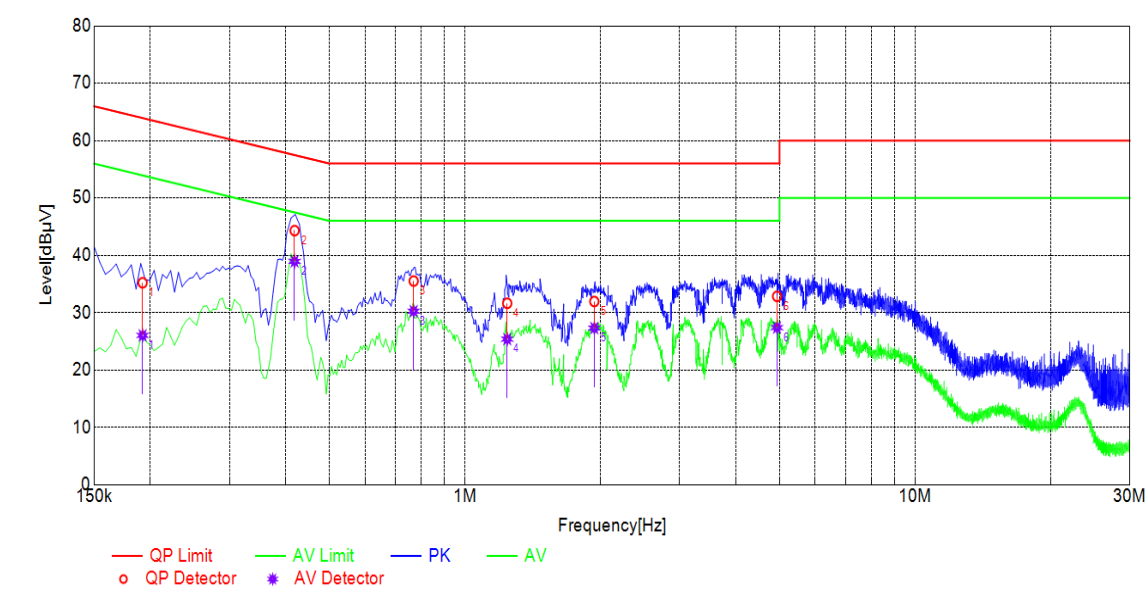
11AC80MIMO_Ant2_5775



Appendix E: Conducted emission AC power port

Mode:	5G WIFI	Voltage:	120V~
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Test Graph

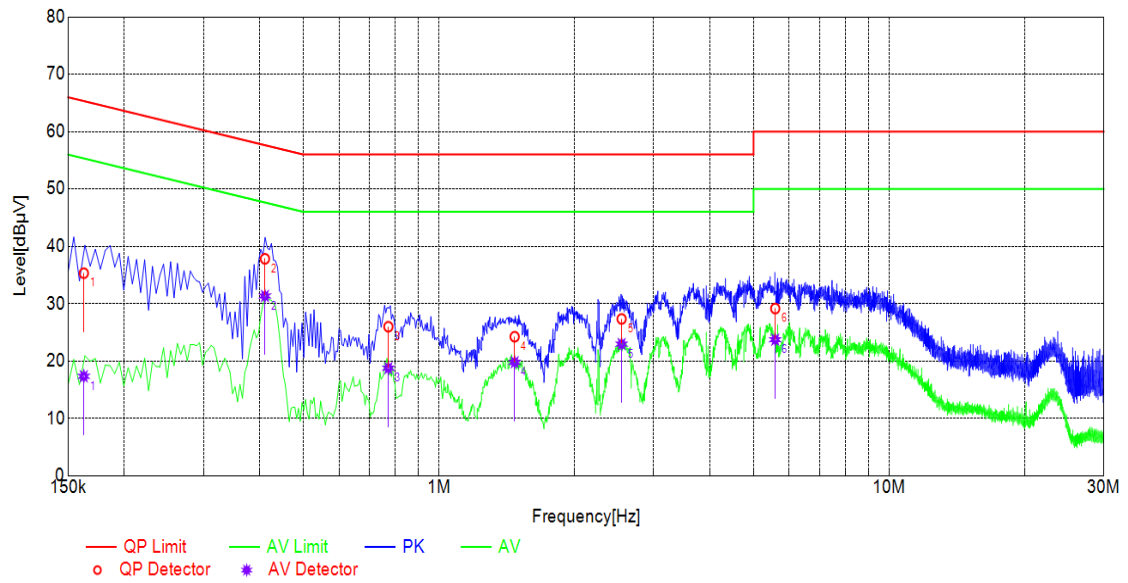


Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Polarity	Verdict
1	0.1923	10.24	35.21	63.94	28.73	26.03	53.94	27.91	L	PASS
2	0.4184	10.27	44.31	57.48	13.17	38.94	47.48	8.54	L	PASS
3	0.7694	10.28	35.51	56.00	20.49	30.25	46.00	15.75	L	PASS
4	1.2417	10.31	31.63	56.00	24.37	25.38	46.00	20.62	L	PASS
5	1.9383	10.35	31.94	56.00	24.06	27.31	46.00	18.69	L	PASS
6	4.9348	10.41	32.84	56.00	23.16	27.39	46.00	18.61	L	PASS

Mode:	5G WIFI	Voltage:	120V~
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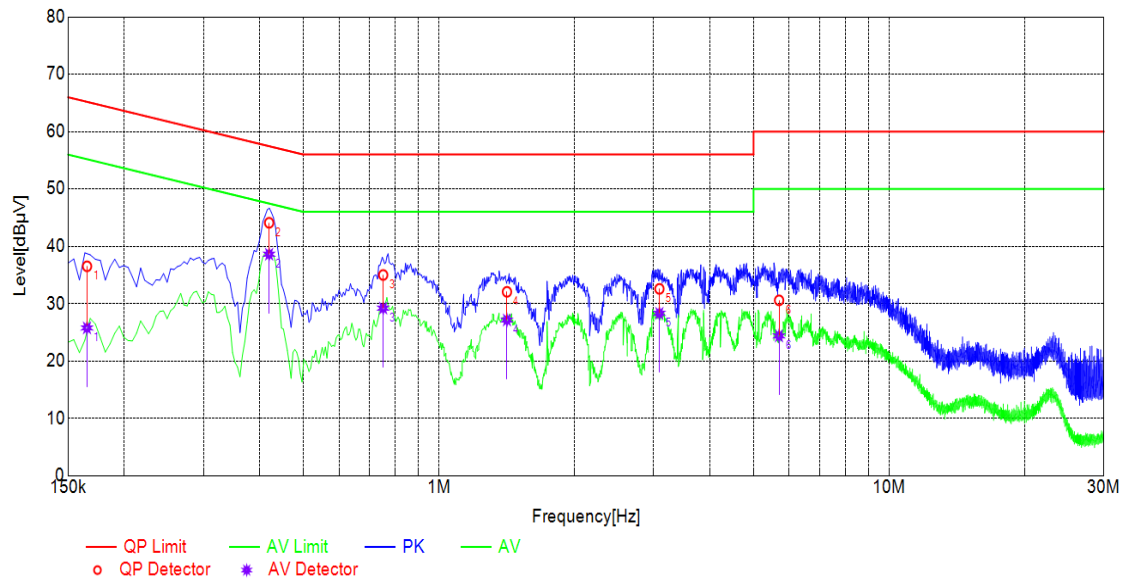
Test Graph



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Polarity	Verdict
1	0.1626	10.24	35.31	65.33	30.02	17.32	55.33	38.01	N	PASS
2	0.4107	10.27	37.82	57.63	19.81	31.33	47.63	16.30	N	PASS
3	0.7722	10.27	25.97	56.00	30.03	18.75	46.00	27.25	N	PASS
4	1.4730	10.28	24.23	56.00	31.77	19.77	46.00	26.23	N	PASS
5	2.5456	10.32	27.33	56.00	28.67	22.94	46.00	23.06	N	PASS
6	5.5852	10.38	29.15	60.00	30.85	23.71	50.00	26.29	N	PASS

Mode:	5.8G WIFI	Voltage:	120V~
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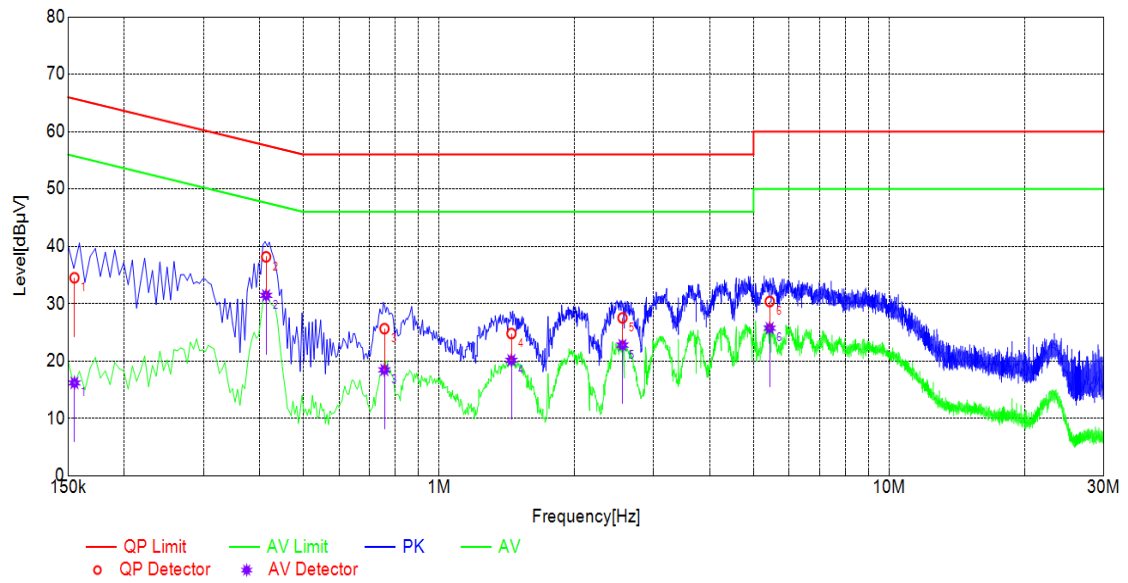
Test Graph



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Polarity	Verdict
1	0.1653	10.25	36.52	65.19	28.67	25.76	55.19	29.43	L	PASS
2	0.4196	10.27	44.10	57.46	13.36	38.62	47.46	8.84	L	PASS
3	0.7519	10.28	35.00	56.00	21.00	29.21	46.00	16.79	L	PASS
4	1.4163	10.32	32.06	56.00	23.94	27.14	46.00	18.86	L	PASS
5	3.0886	10.37	32.58	56.00	23.42	28.31	46.00	17.69	L	PASS
6	5.6963	10.43	30.58	60.00	29.42	24.37	50.00	25.63	L	PASS

Mode:	5.8G WIFI	Voltage:	120V~
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Test Graph



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Polarity	Verdict
1	0.1550	10.24	34.51	65.73	31.22	16.16	55.73	39.57	N	PASS
2	0.4131	10.27	38.16	57.59	19.43	31.44	47.59	16.15	N	PASS
3	0.7567	10.27	25.63	56.00	30.37	18.44	46.00	27.56	N	PASS
4	1.4489	10.28	24.79	56.00	31.21	20.12	46.00	25.88	N	PASS
5	2.5568	10.32	27.51	56.00	28.49	22.76	46.00	23.24	N	PASS
6	5.4303	10.36	30.37	60.00	29.63	25.72	50.00	24.28	N	PASS