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Appendix B:
802.11ax
Test Plot

FCC ID
A3LSMX610

REVISION HISTORY

The revision history for this document is shown in table.

Revision No.	Date of Issue	Description
0	July 24, 2023	Initial Release

Note:

In order to simplify the report, attached plots were only the most lowest data rate.

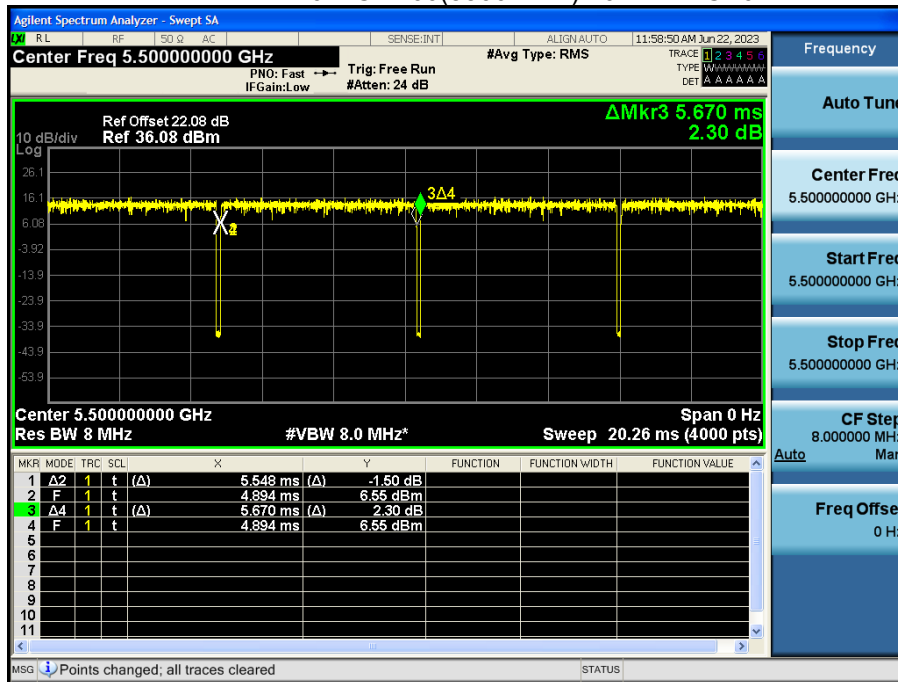
1. Duty Cycle

Note :

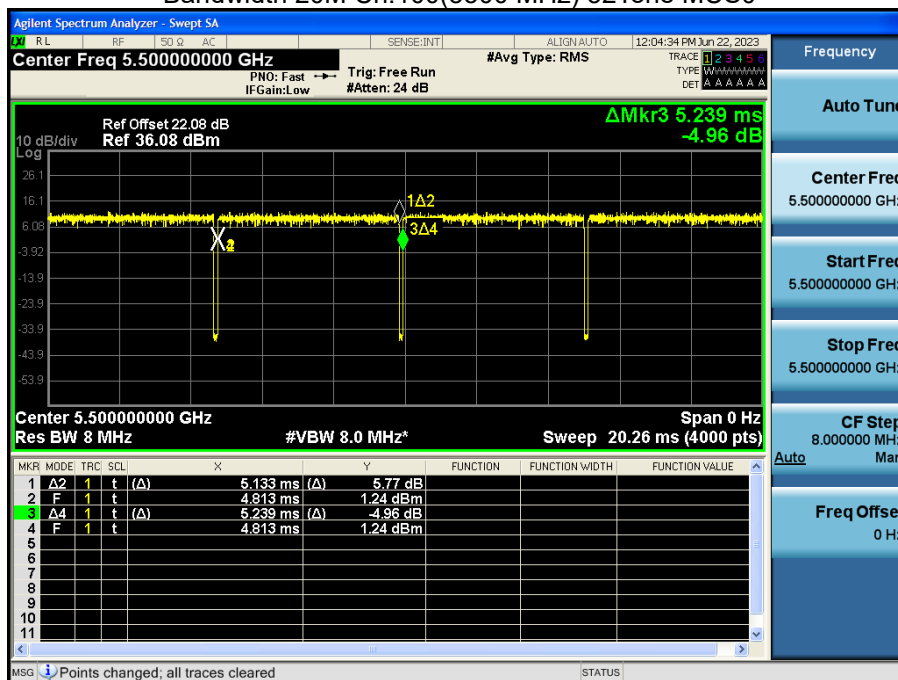
1. Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$. where, Duty Cycle = $T_{\text{on}} / T_{\text{total}}$
2. In order to simplify the report, attached plots were only the most lowest datarate.
3. Test was performed with continuous Tx.(Duty cycle $\geq 98\%$ Continuous Signal)

[SISO]

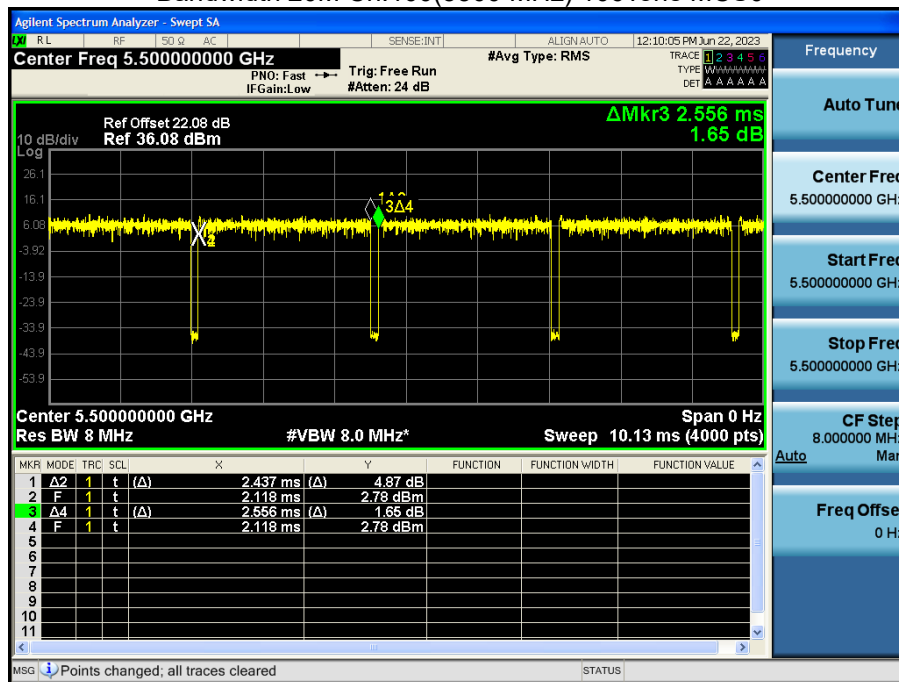
Bandwidth 20M Ch.100(5500 MHz) 26Tone MCS0



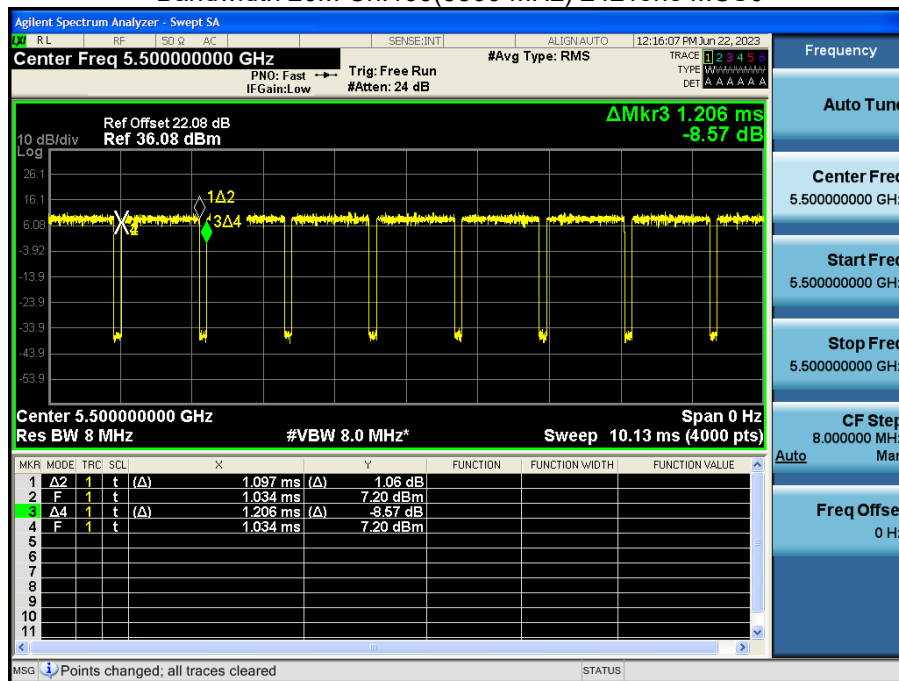
Bandwidth 20M Ch.100(5500 MHz) 52Tone MCS0



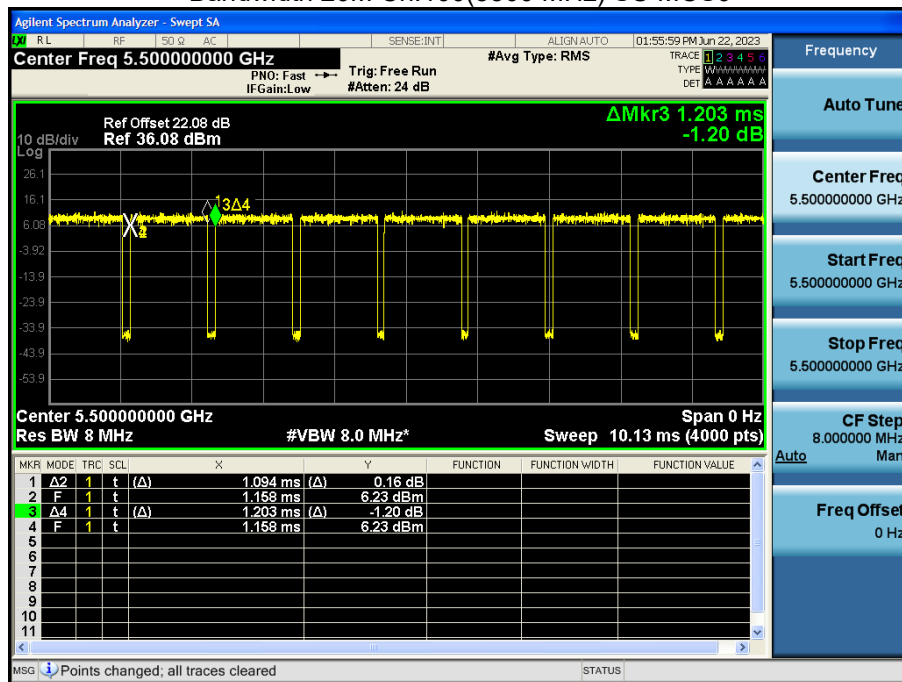
Bandwidth 20M Ch.100(5500 MHz) 106Tone MCS0



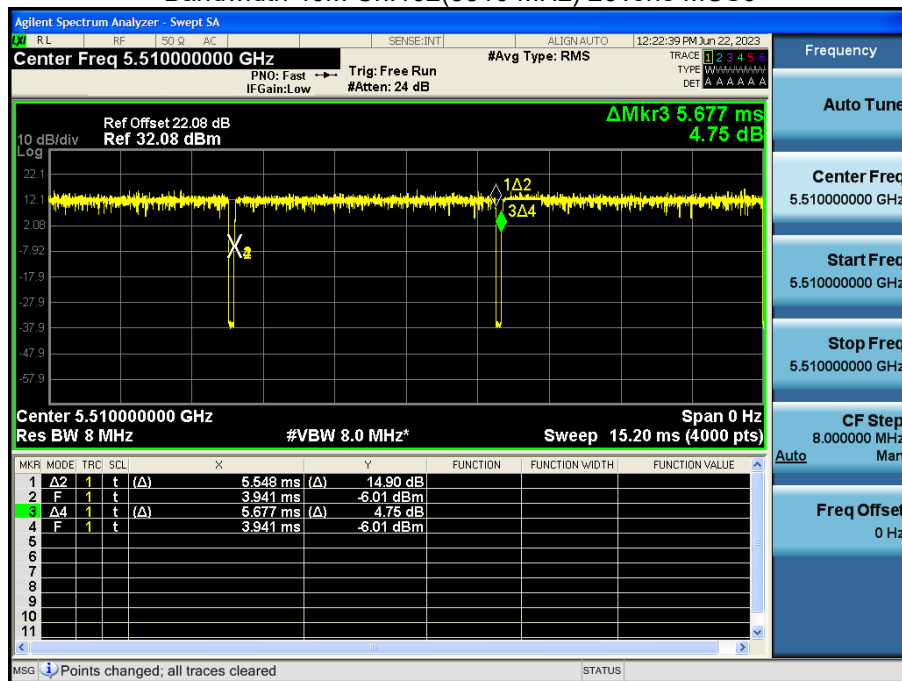
Bandwidth 20M Ch.100(5500 MHz) 242Tone MCS0



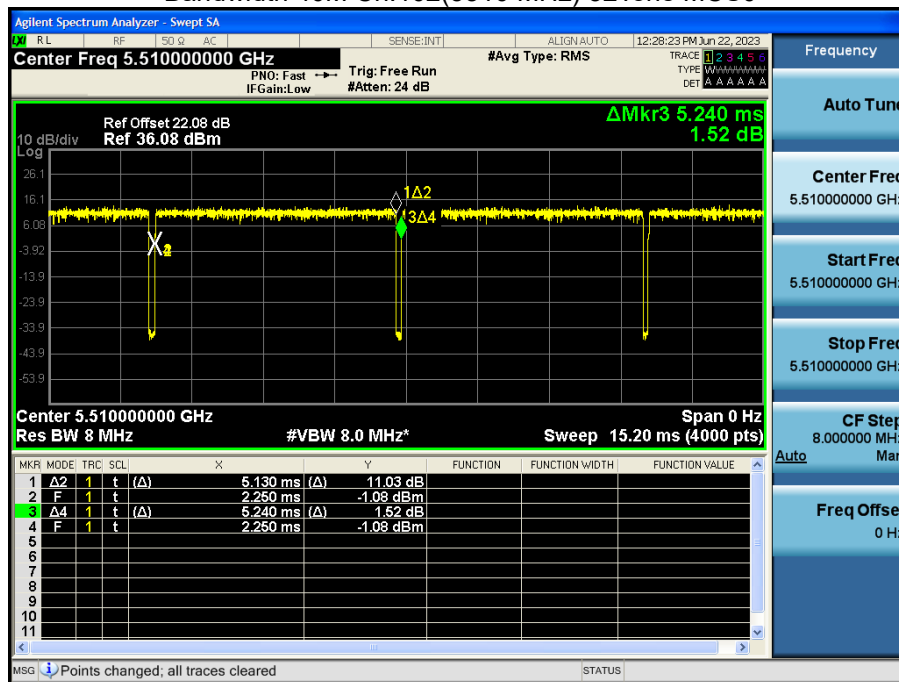
Bandwidth 20M Ch.100(5500 MHz) SU MCS0



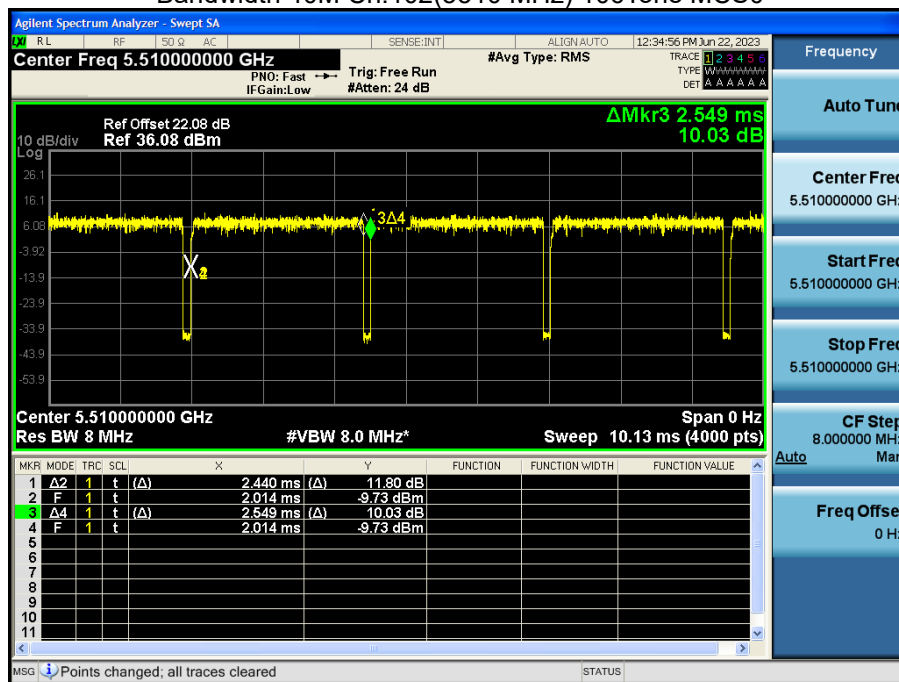
Bandwidth 40M Ch.102(5510 MHz) 26Tone MCS0



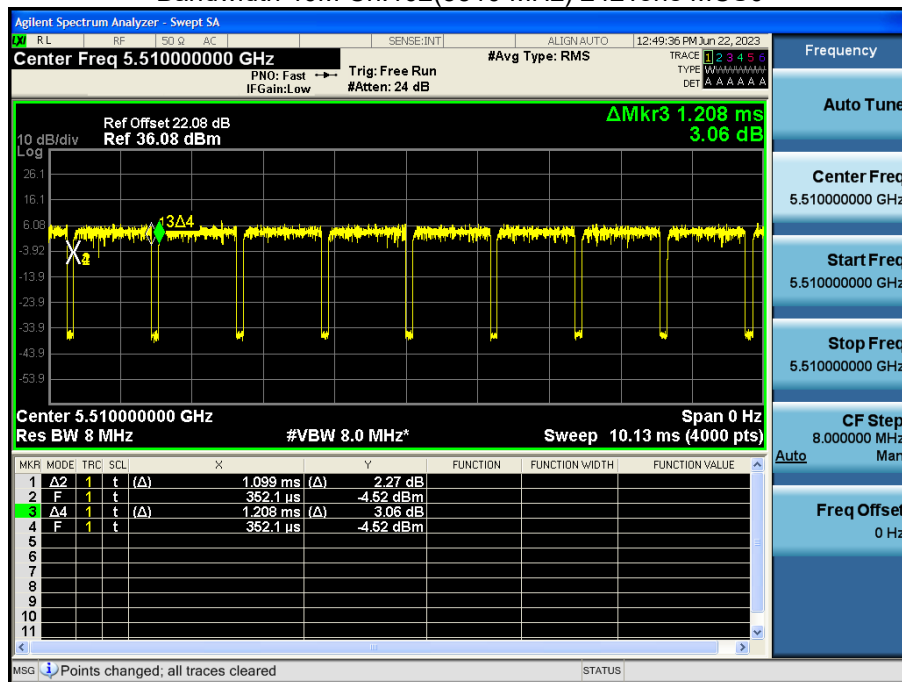
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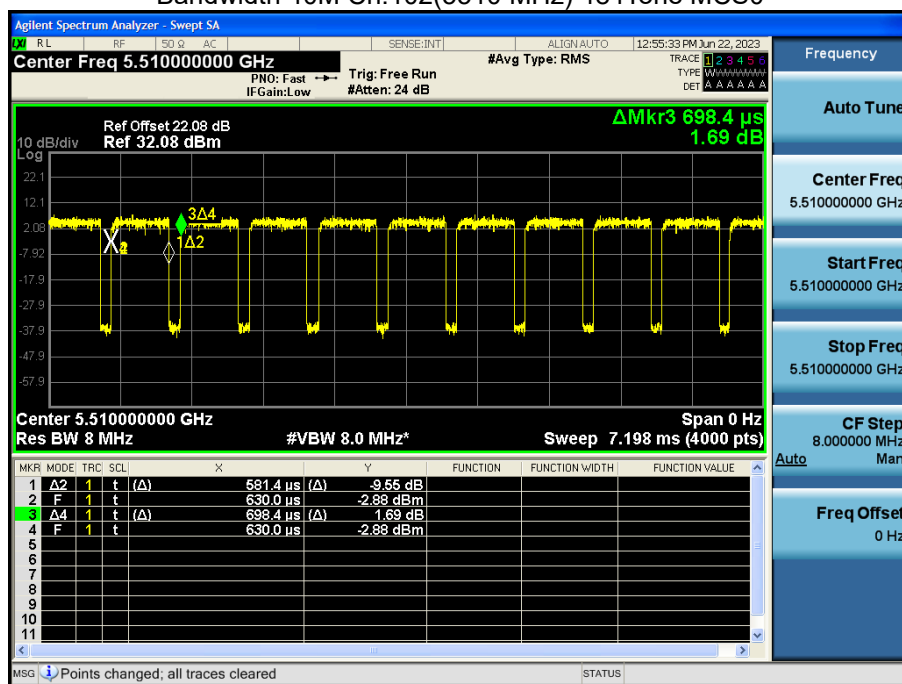
Bandwidth 40M Ch.102(5510 MHz) 106Tone MCS0



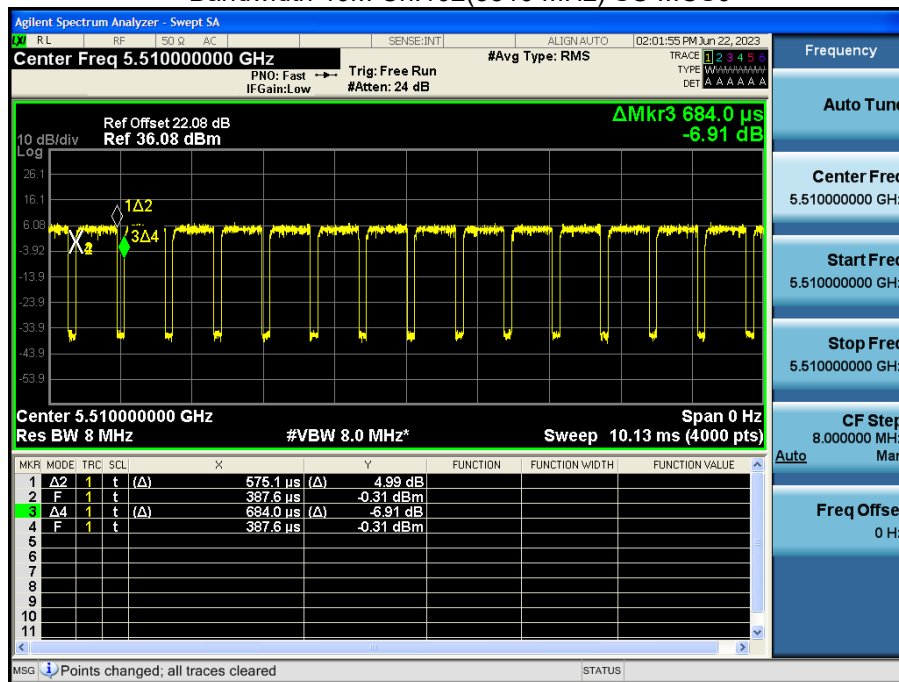
Bandwidth 40M Ch.102(5510 MHz) 242Tone MCS0



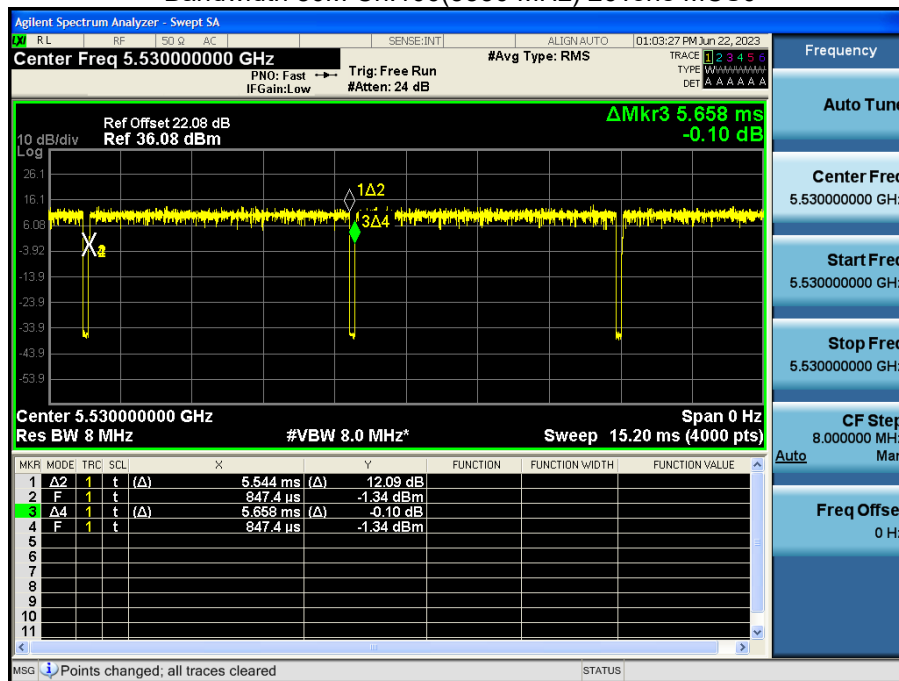
Bandwidth 40M Ch.102(5510 MHz) 484Tone MCS0



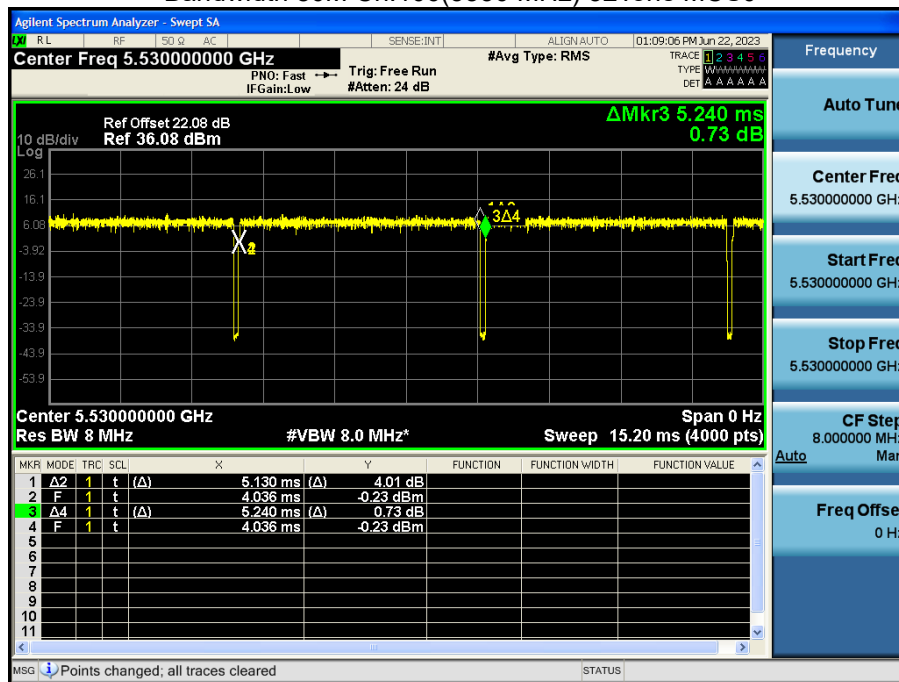
Bandwidth 40M Ch.102(5510 MHz) SU MCS0



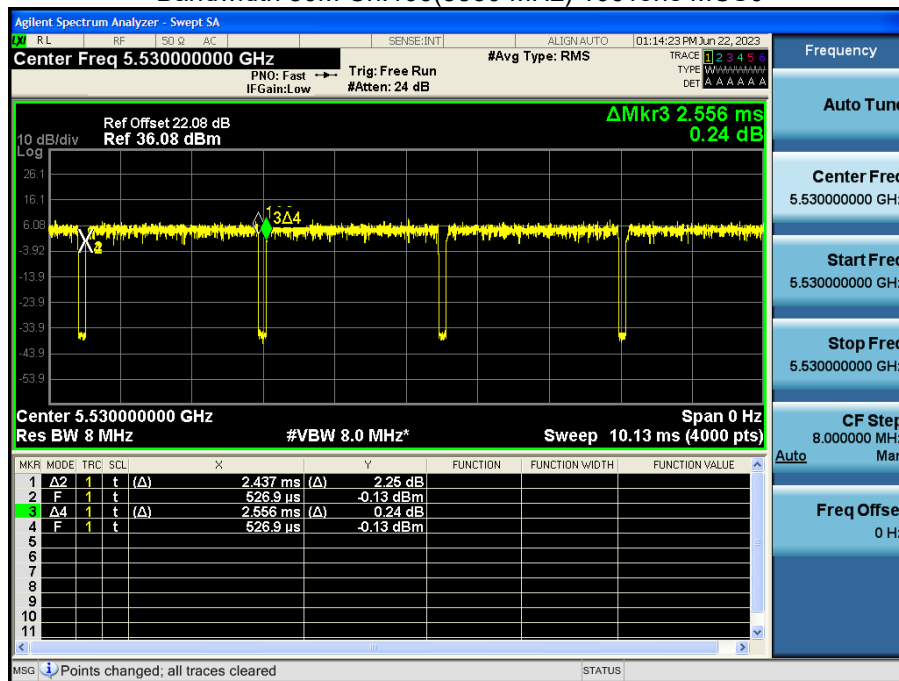
Bandwidth 80M Ch.106(5530 MHz) 26Tone MCS0



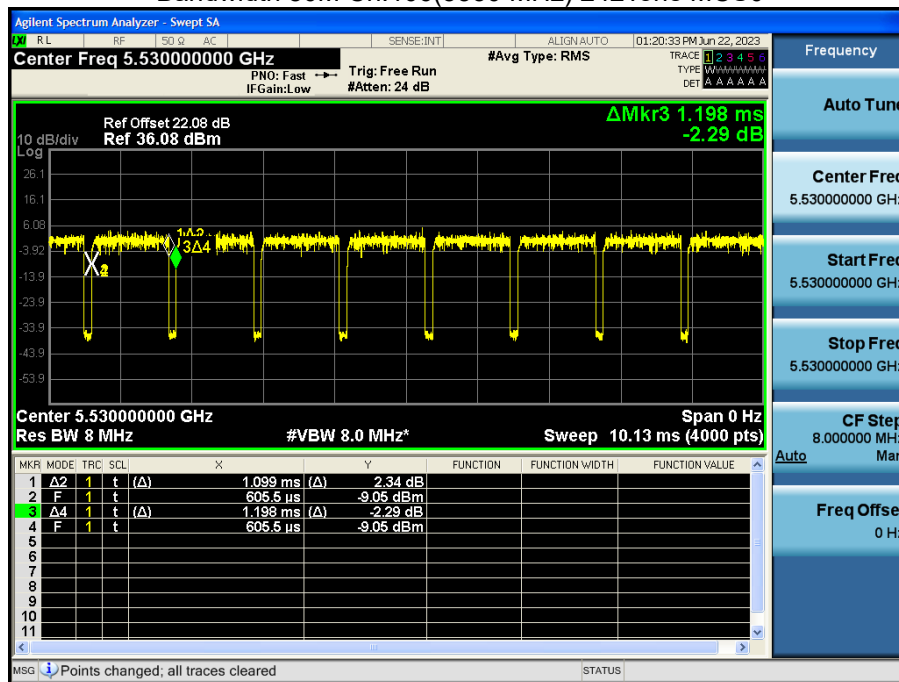
Bandwidth 80M Ch.106(5530 MHz) 52Tone MCS0



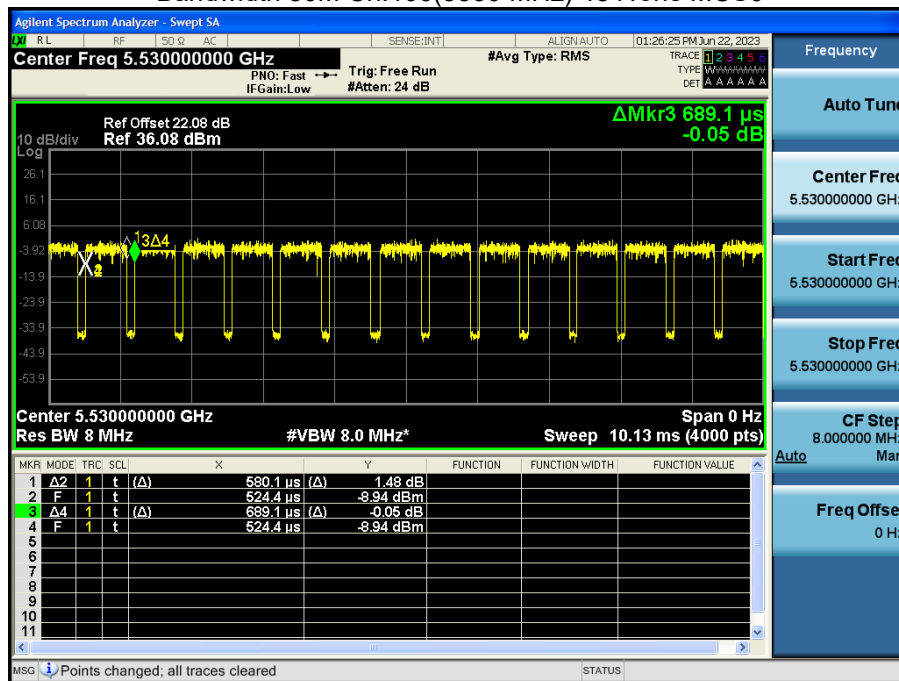
Bandwidth 80M Ch.106(5530 MHz) 106Tone MCS0



Bandwidth 80M Ch.106(5530 MHz) 242Tone MCS0



Bandwidth 80M Ch.106(5530 MHz) 484Tone MCS0



Agilent Spectrum Analyzer - Sweep SA

RL RF SO Q AC SENSE:INT ALIGN AUTO 01:42:21 PM Jun 22, 2023

Center Freq 5.530000000 GHz #Avg Type: RMS

PNO: Fast Trig: Free Run TYPE 1 2 3 4 5 6
IFGain: Low #Atten: 24 dB DET A A A A A A

Ref Offset 22.08 dB Δ Mkr3 357.2 μ s
Ref 36.08 dBm -17.88 dB

10 dB/div Log

Center 5.530000000 GHz Span 0 Hz
Res BW 8 MHz #VBW 8.0 MHz* Sweep 10.13 ms (4000 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	A2	1	t	(A)	309.1 μ s	(A)	-1.65 dB	
2	F	1	t		205.2 μ s		-17.25 dBm	
3	A4	1	t	(A)	357.2 μ s	(A)	-17.88 dB	
4	F	1	t		205.2 μ s		-17.25 dBm	

MSG Points changed; all traces cleared

STATUS

Agilent Spectrum Analyzer - Swept SA

RL RF SO Ω AC SENSE:INT ALIGN:AUTO 02:08:51 PM Jun 22, 2023

Center Freq 5.530000000 GHz #Avg Type: RMS

PNO: Fast → Trg: Free Run 2 3 4 5
IFGain:Low #Atten: 24 dB TYPE: WAAAAAAAAA
DET: A A A A A A

Ref Offset 22.08 dB Δ Mkr3 412.9 μ s
Ref 36.08 dBm 6.45 dB

10 dB/div Log

26.1
6.08
-3.92
-13.9
-23.9
-33.9
-43.9

13.44
X₂

Center 5.530000000 GHz Span 0 Hz
Res BW 8 MHz #VBW 8.0 MHz* Sweep 10.13 ms (4000 pts)

MKR	MODE	TRC	SL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	304.0 μ s	(Δ)	6.49 dB	
2	F	1	t		331.9 μ s		-10.44 dBm	
3	Δ 4	1	t	(Δ)	412.9 μ s	(Δ)	6.45 dB	
4	F	1	t		331.9 μ s		-10.44 dBm	
5								
6								
7								
8								
9								
10								
11								

MSG Points changed; all traces cleared

STATUS

Frequency

Auto Tun

Center Freq 5.530000000 GHz

Start Freq 5.530000000 GHz

Stop Freq 5.530000000 GHz

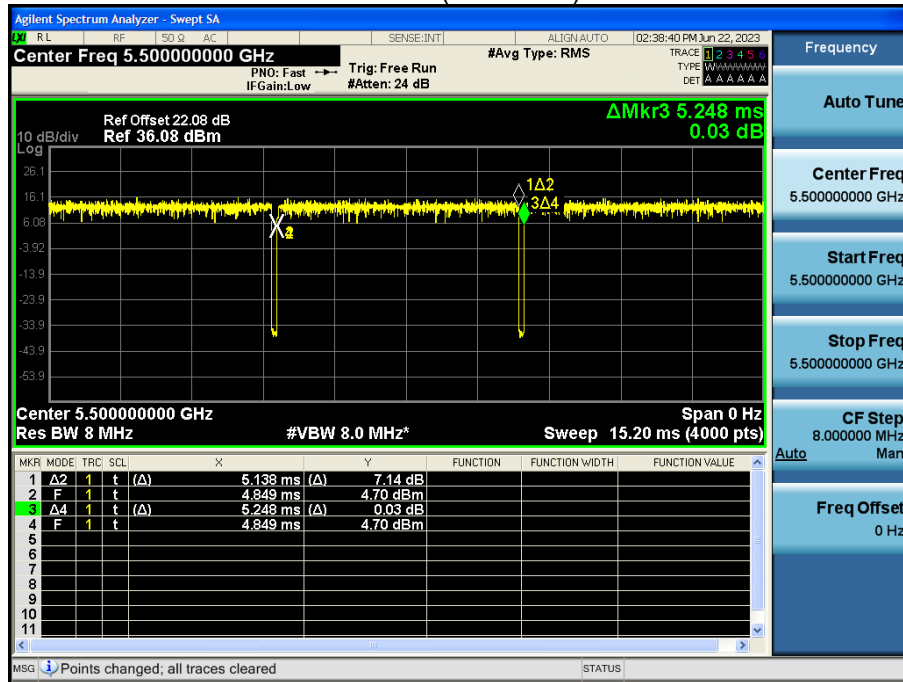
CF Step 8.000000 MHz

Auto

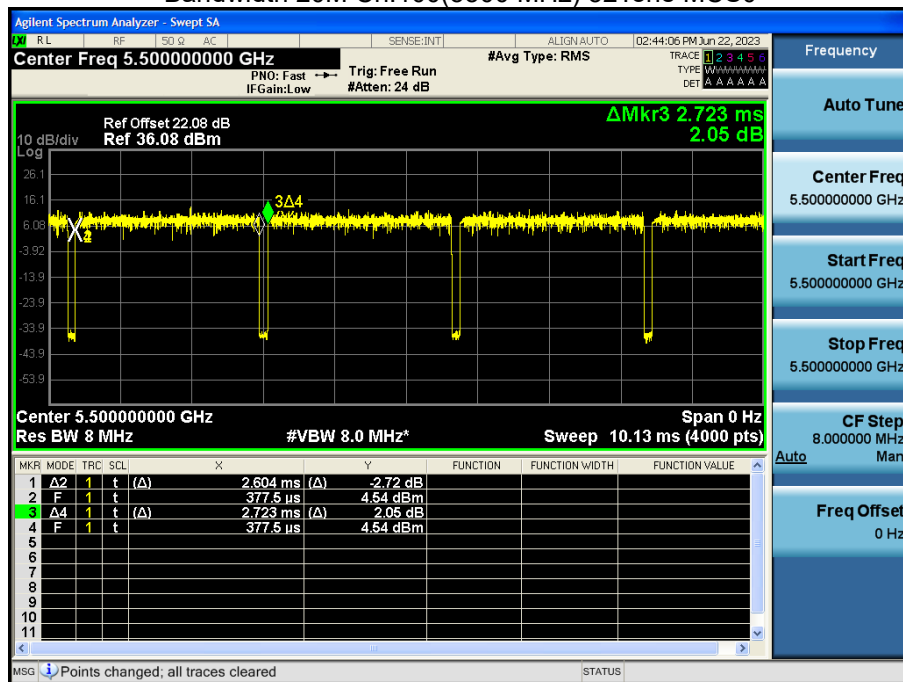
Freq Offset 0 Hz

[MIMO]

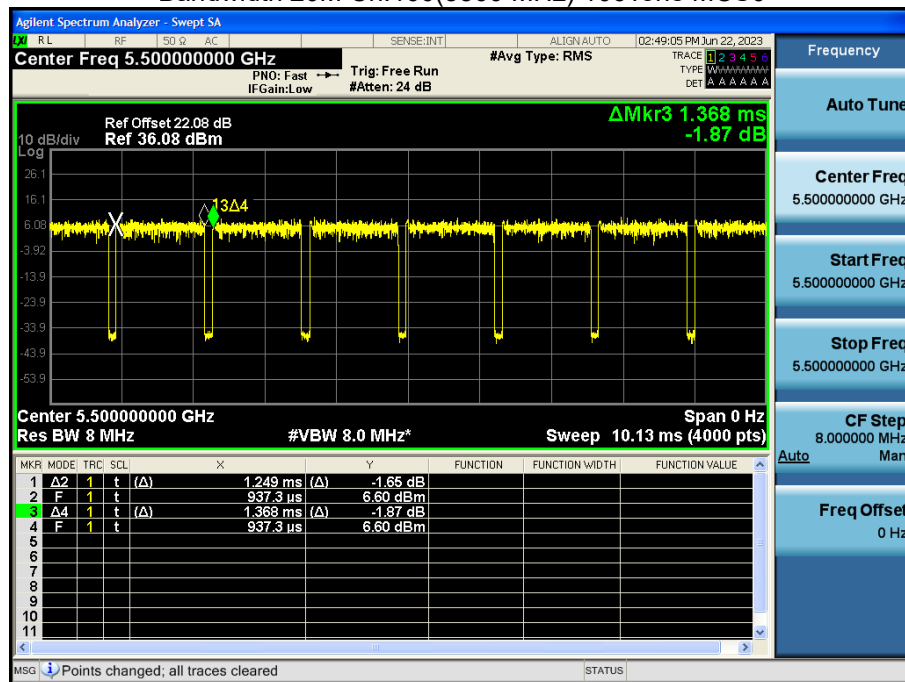
Bandwidth 20M Ch.100(5500 MHz) 26Tone MCS0



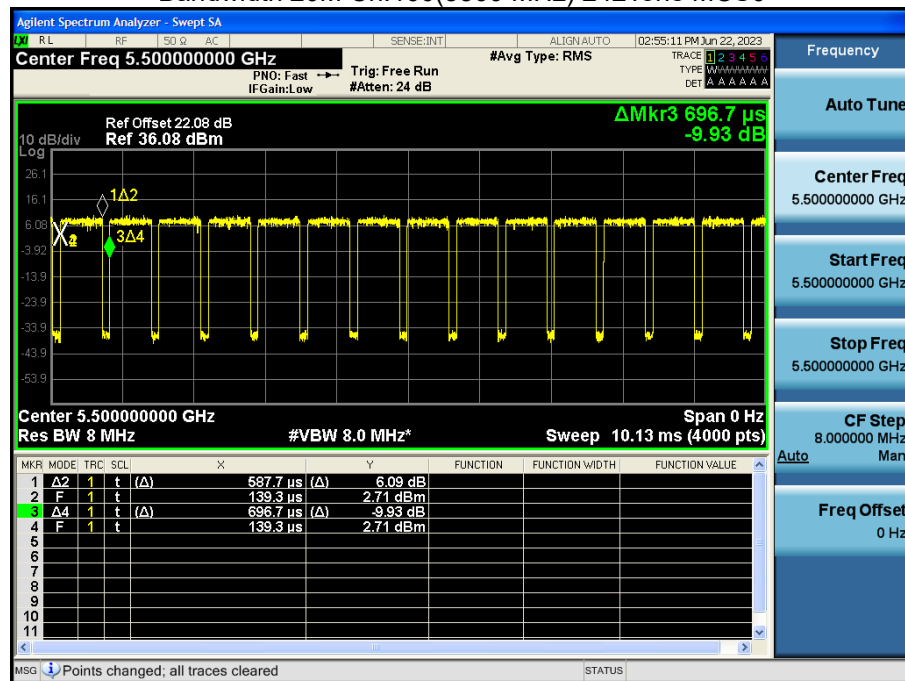
Bandwidth 20M Ch.100(5500 MHz) 52Tone MCS0



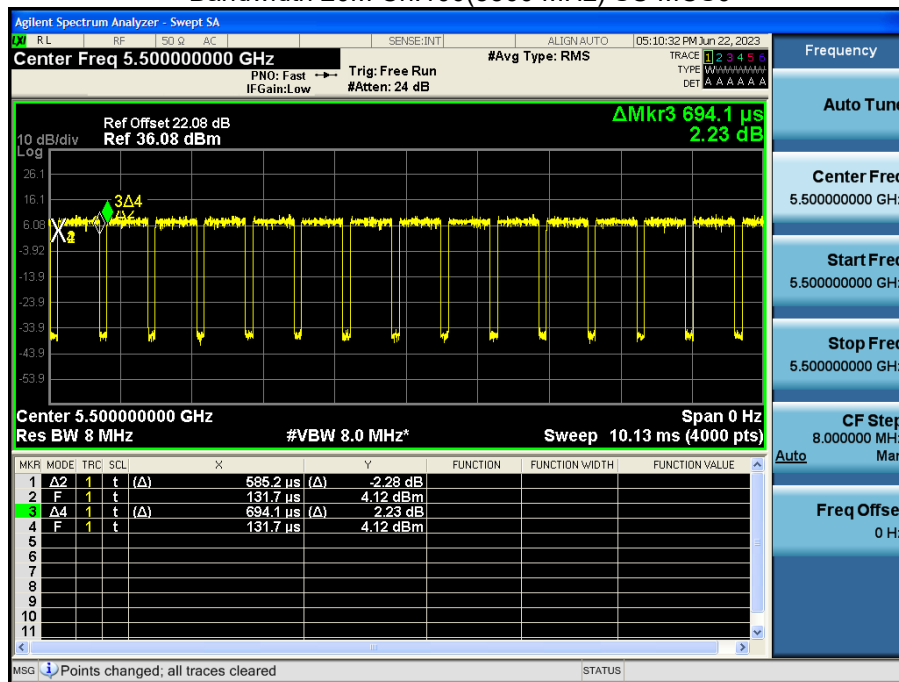
Bandwidth 20M Ch.100(5500 MHz) 106Tone MCS0



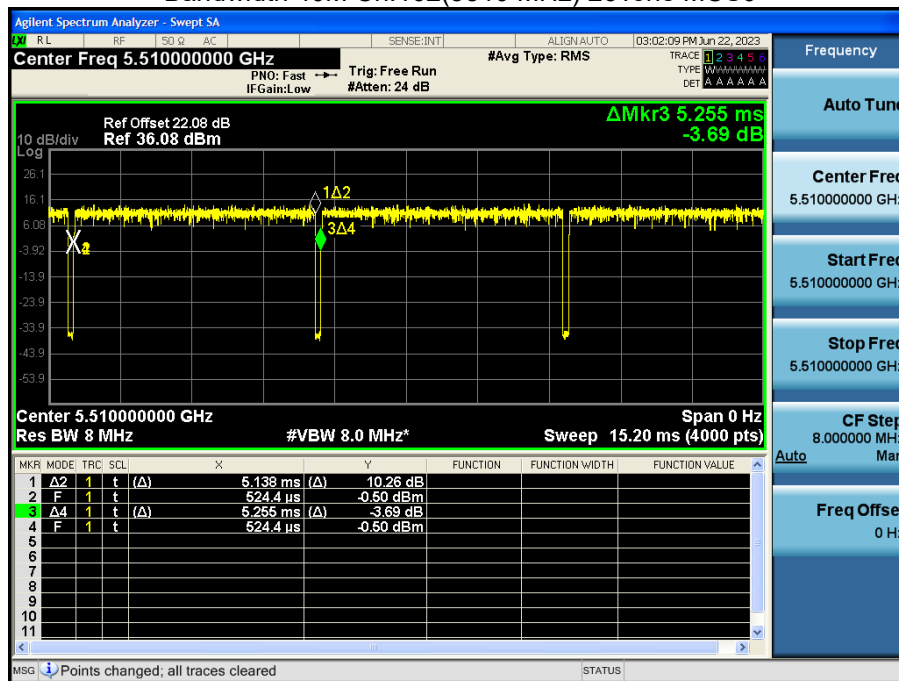
Bandwidth 20M Ch.100(5500 MHz) 242Tone MCS0



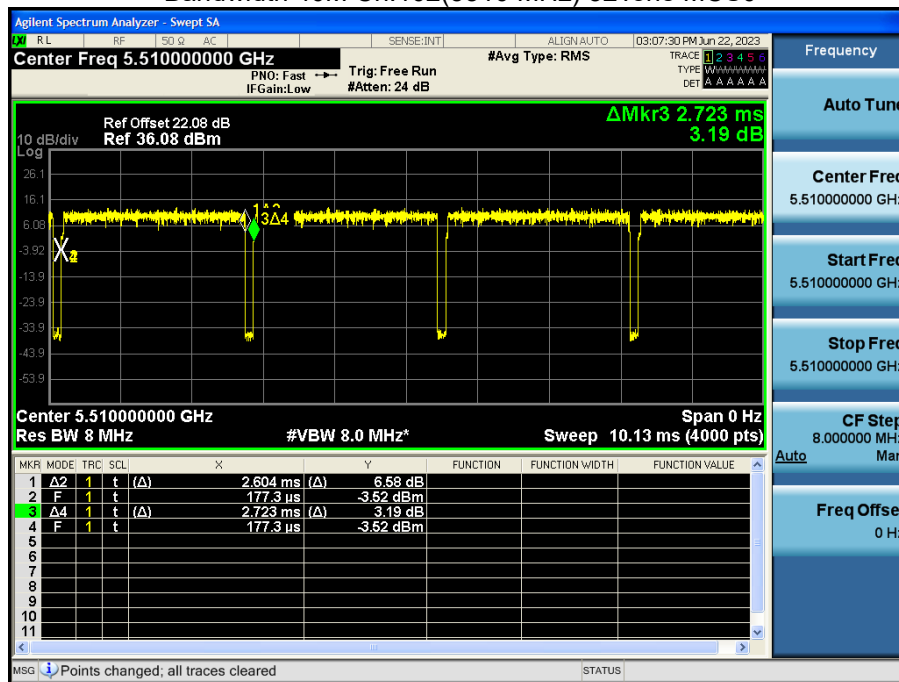
Bandwidth 20M Ch.100(5500 MHz) SU MCS0



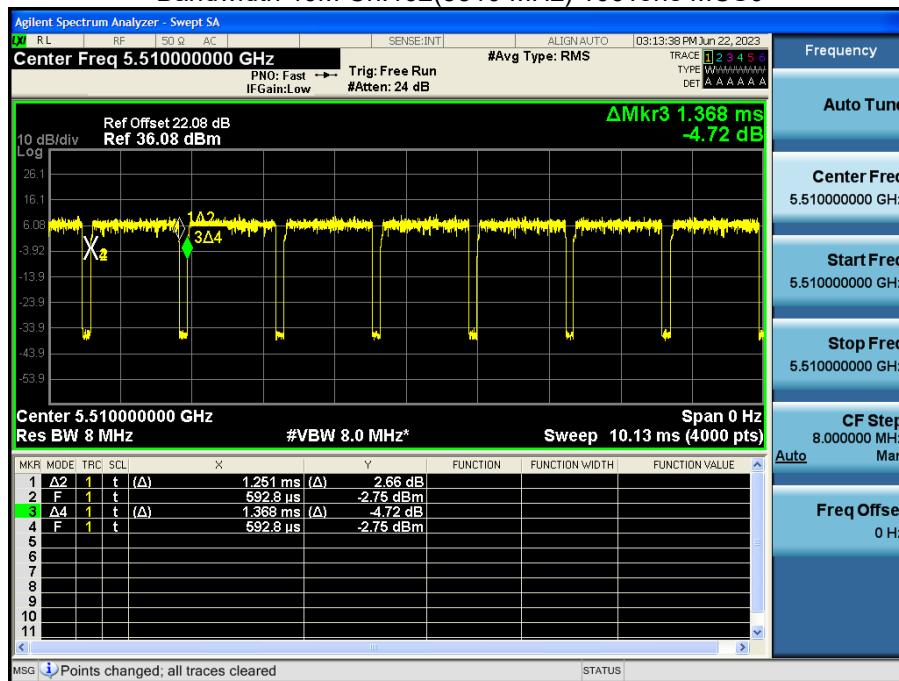
Bandwidth 40M Ch.102(5510 MHz) 26Tone MCS0



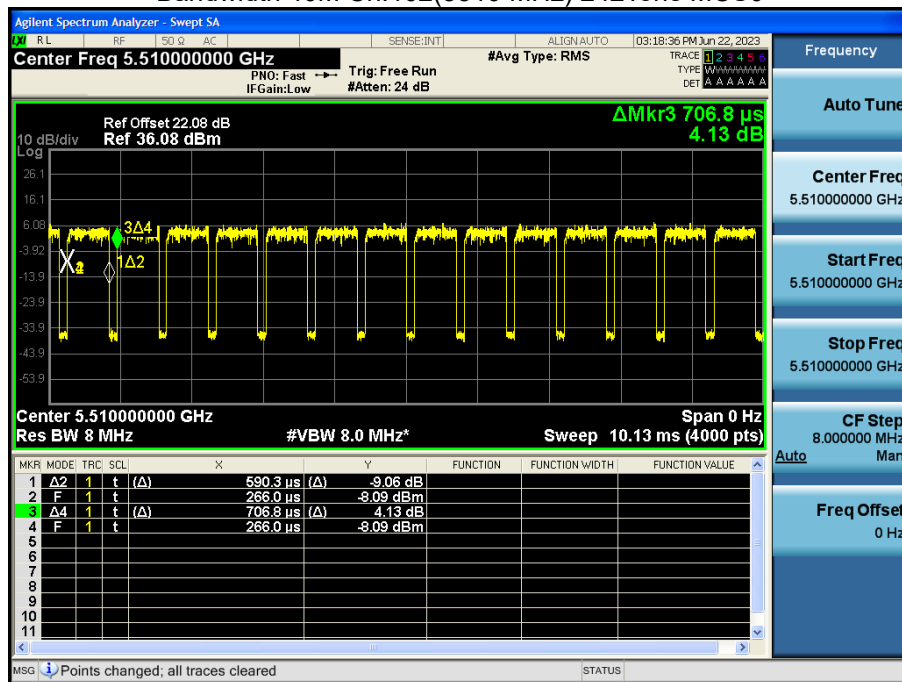
Bandwidth 40M Ch.102(5510 MHz) 52Tone MCS0



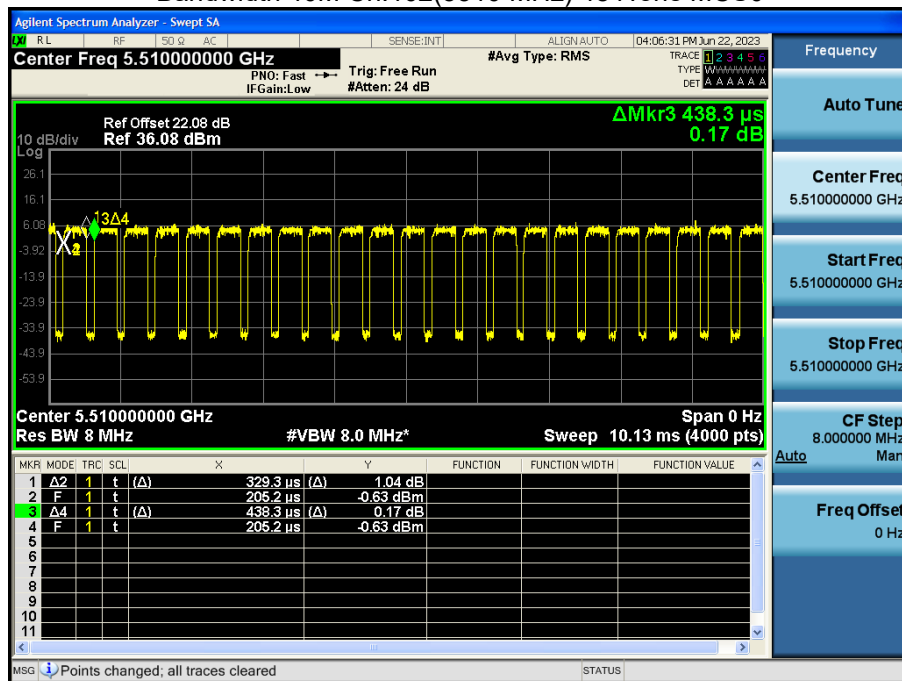
Bandwidth 40M Ch.102(5510 MHz) 106Tone MCS0



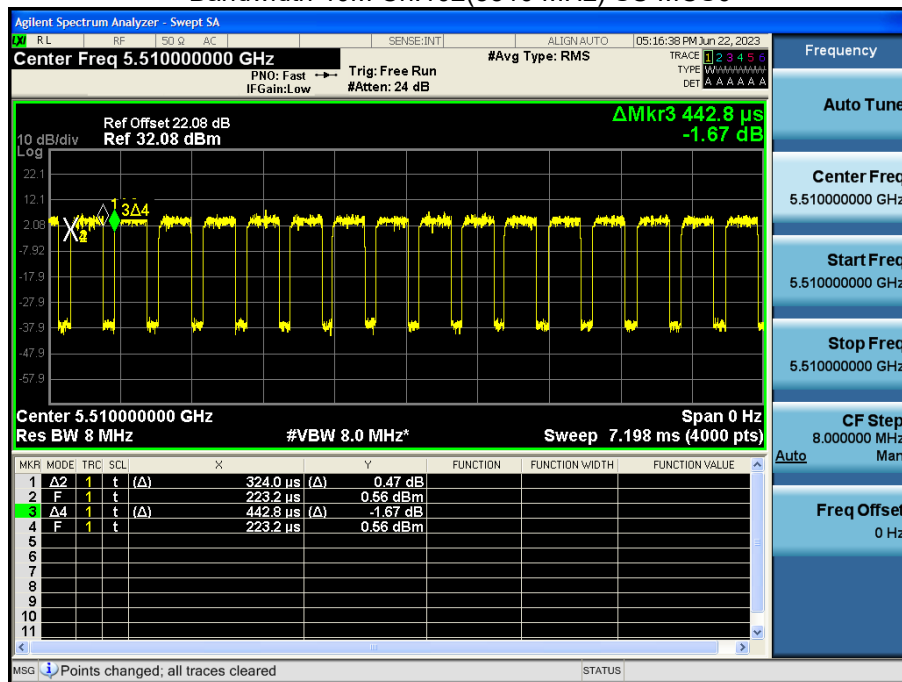
Bandwidth 40M Ch.102(5510 MHz) 242Tone MCS0



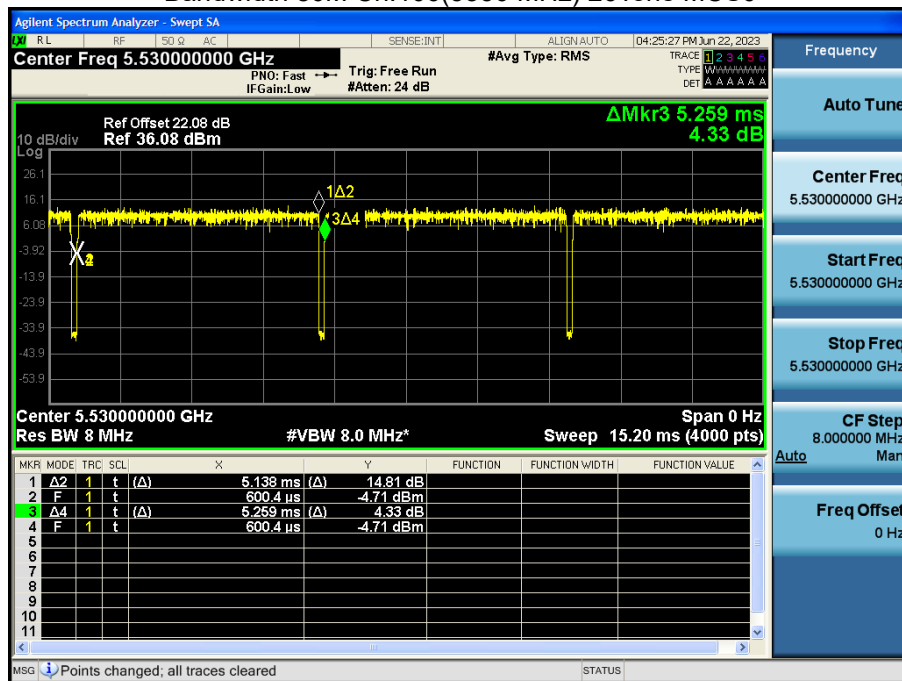
Bandwidth 40M Ch.102(5510 MHz) 484Tone MCS0



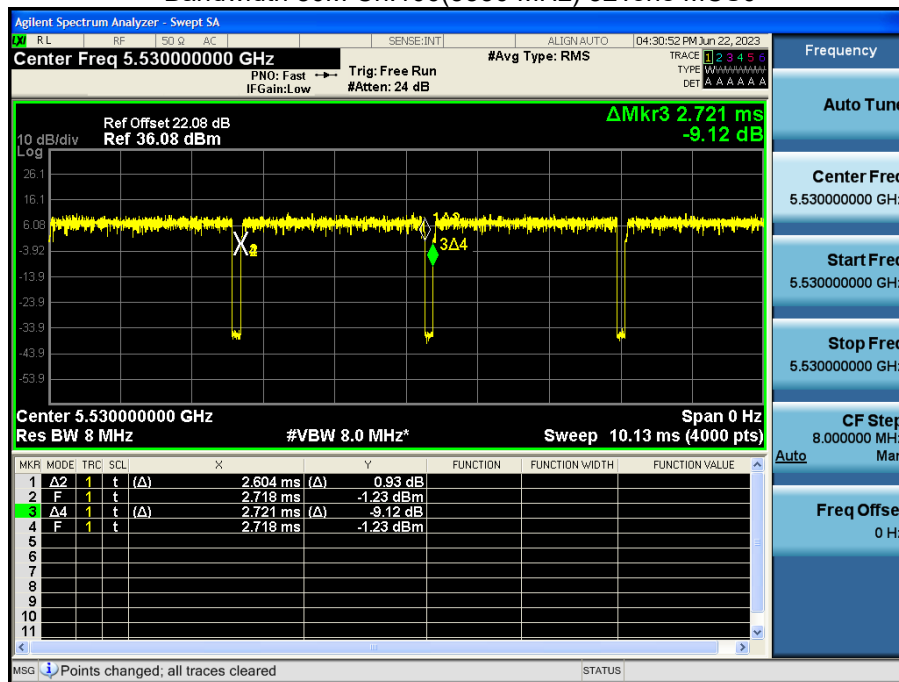
Bandwidth 40M Ch.102(5510 MHz) SU MCS0



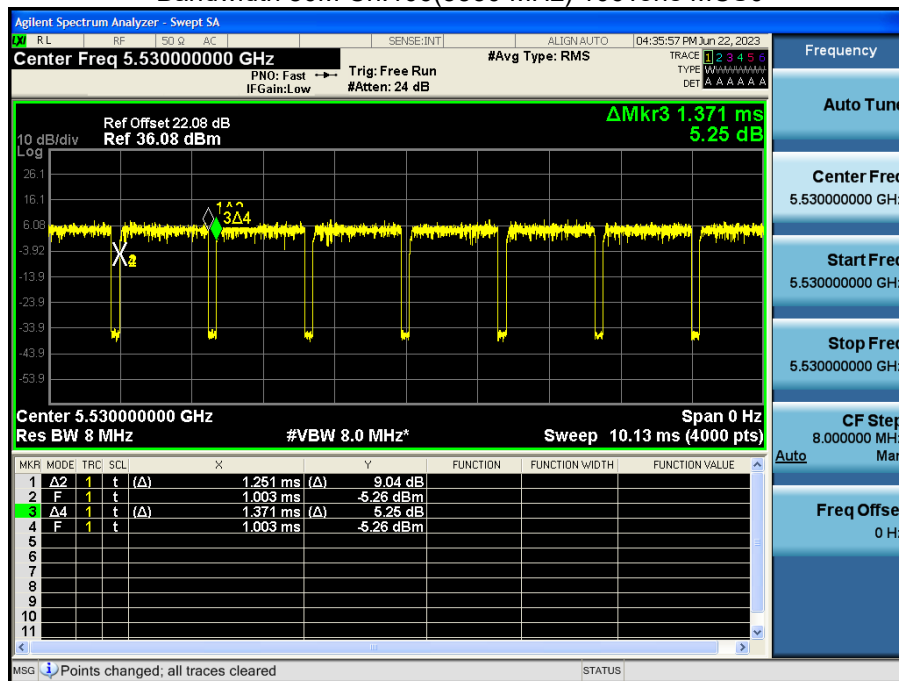
Bandwidth 80M Ch.106(5530 MHz) 26Tone MCS0



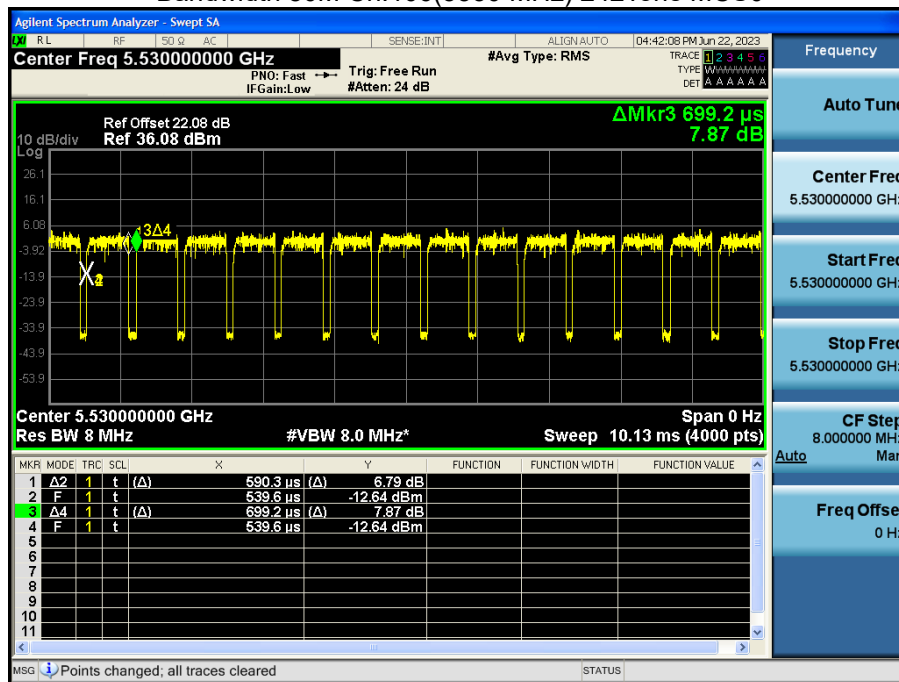
Bandwidth 80M Ch.106(5530 MHz) 52Tone MCS0



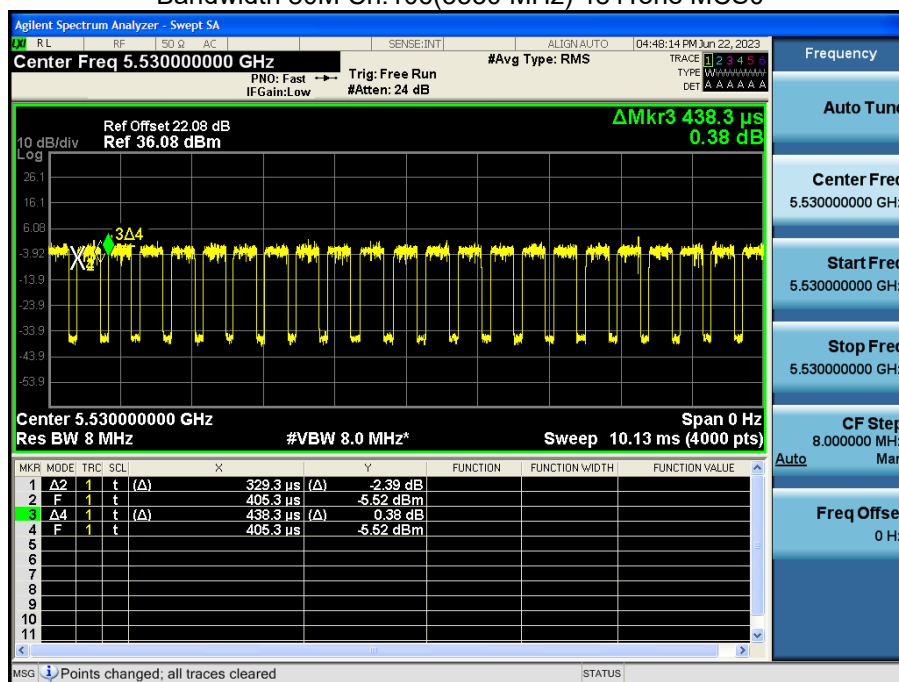
Bandwidth 80M Ch.106(5530 MHz) 106Tone MCS0



Bandwidth 80M Ch.106(5530 MHz) 242Tone MCS0



Bandwidth 80M Ch.106(5530 MHz) 484Tone MCS0



Agilent Spectrum Analyzer - Swept SA

Center Freq 5.530000000 GHz #Avg Type: RMS

Ref Offset 22.08 dB Ref 32.08 dBm

Trig: Free Run #Atten: 24 dB

PN0: Fast IFGain: Low

TYPE MAAAAAA DET A A A A A

04:55:39 PM Jun 22, 2023

Frequency

Auto Tun

Center Freq 5.530000000 GHz

Start Freq 5.530000000 GHz

Stop Freq 5.530000000 GHz

CF Step 8.000000 MHz

Auto

Freq Offset 0 Hz

10 dB/div Log

Ref Offset 22.08 dB Ref 32.08 dBm

Δ Mkr3 304.2 μ s 5.81 dB

Xa

3 Δ 4

Center 5.530000000 GHz Span 0 Hz

Res BW 8 MHz #VBW 8.0 MHz* Sweep 7.198 ms (4000 pts)

MKR	MODE	TRC	SDL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	A2	1	t	(Δ)	185.4 μ s	8.39 dB		
2	F	1	t		162.0 μ s	-9.56 dBm		
3	A4	1	t	(Δ)	304.2 μ s	5.81 dB		
4	F	1	t		162.0 μ s	-9.56 dBm		
5								
6								
7								
8								
9								
10								
11								

MSG Points changed; all traces cleared

STATUS

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.530000000 GHz

Ref Offset 22.08 dB
Ref 32.08 dBm

10 dB/div
Log

ΔMkr3 289.8 μs
-15.31 dB

Center 5.530000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz*
Sweep 7.198 ms (4000 pts)
Span 0 Hz

MKR	MODE	TRC	SC1	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t (Δ)	181.8 μs (Δ)	7.32 dB			
2	F	1	t	207.0 μs	-11.95 dBm			
3	Δ4	1	t (Δ)	289.8 μs (Δ)	-15.31 dB			
4	F	1	t	207.0 μs	-11.95 dBm			

MSG Points changed; all traces cleared

STATUS

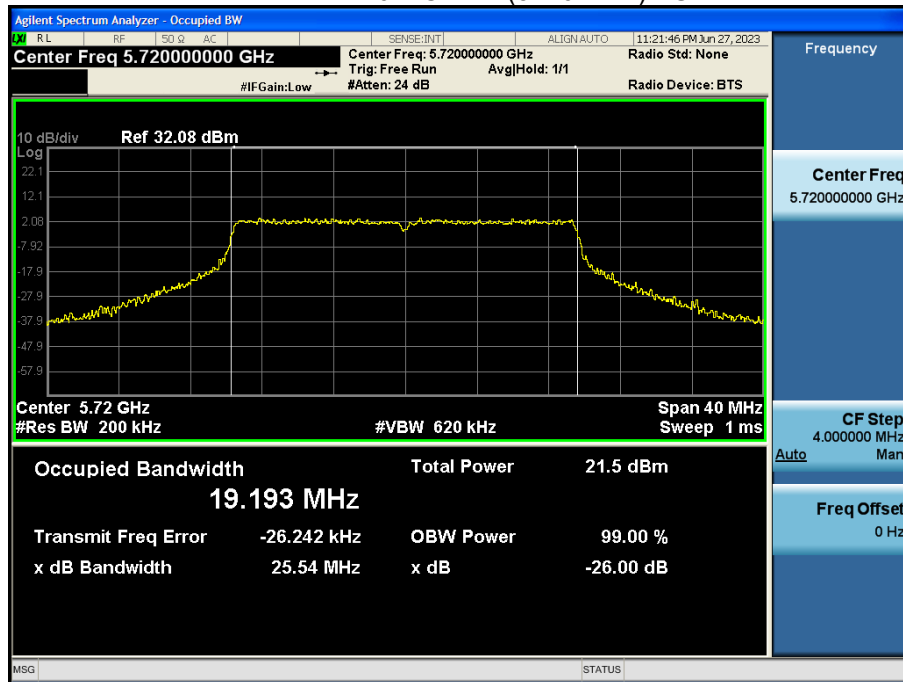
2. 26dB Bandwidth

Note:

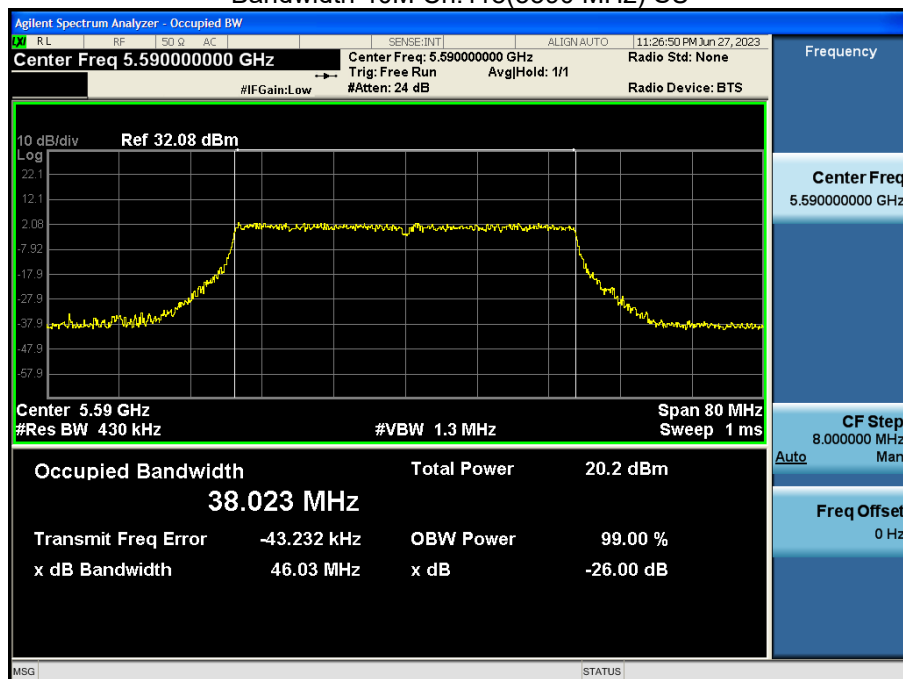
1. In order to simplify the report, attached plots were only the widest channel.

2.1 SISO Ant. 2

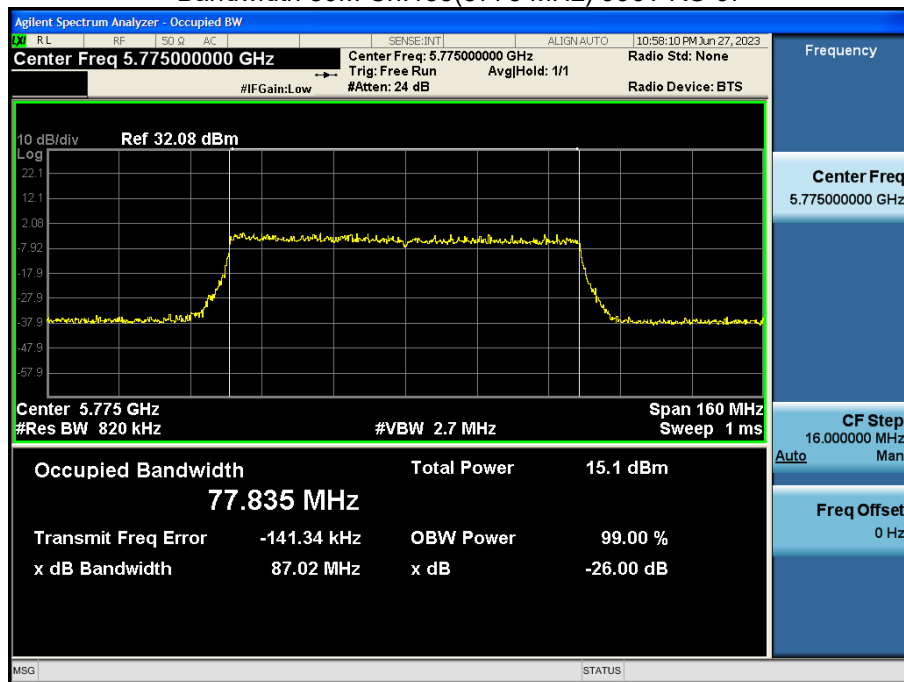
Bandwidth 20M Ch.144(5720 MHz) SU



Bandwidth 40M Ch.118(5590 MHz) SU

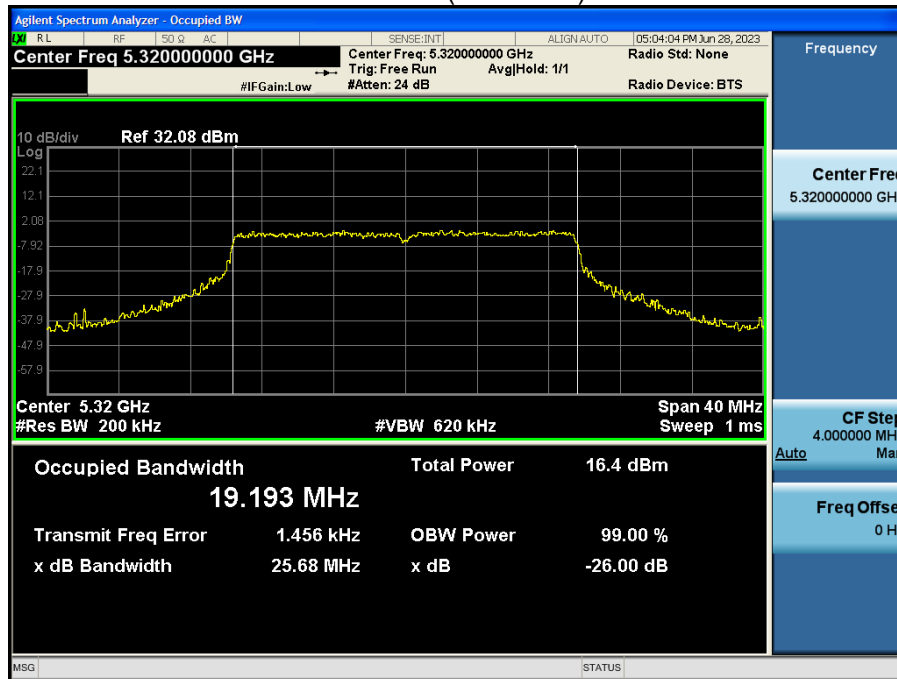


Bandwidth 80M Ch.155(5775 MHz) 996T RU 67

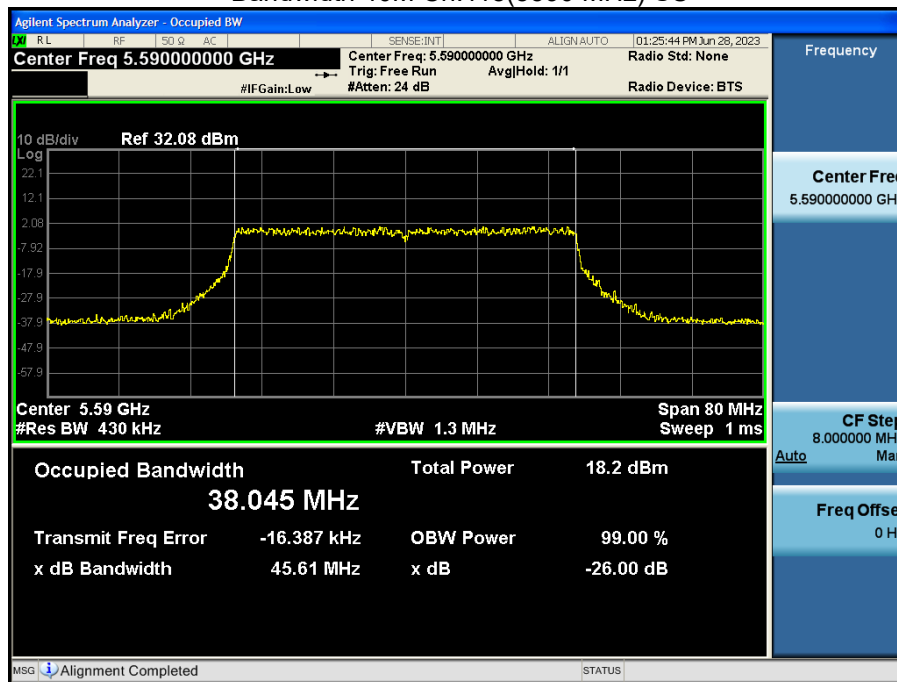


2.2 MIMO Ant. 1

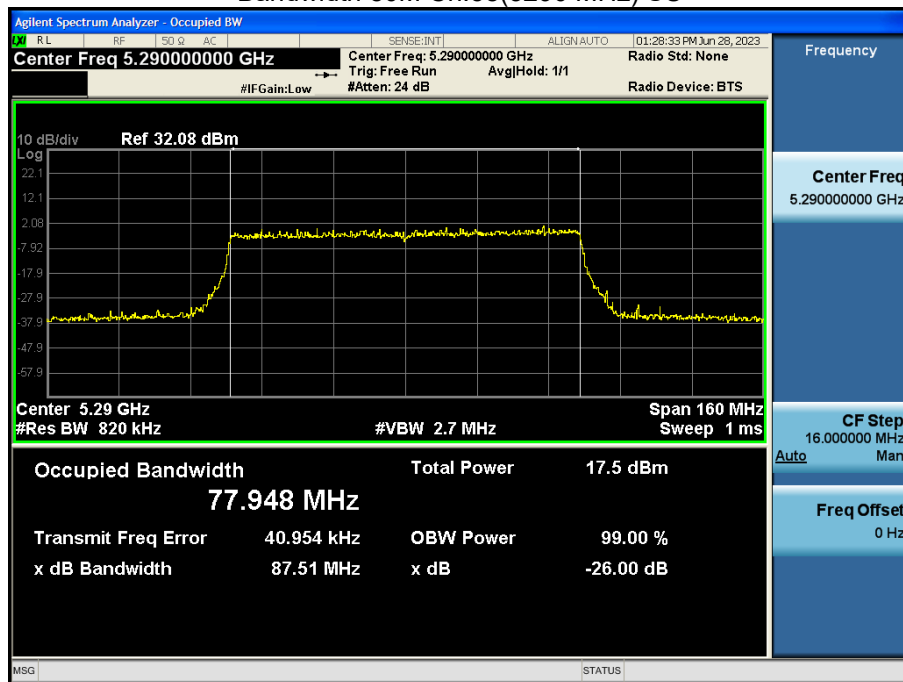
Bandwidth 20M Ch.64(5320 MHz) 242T RU 61



Bandwidth 40M Ch.118(5590 MHz) SU

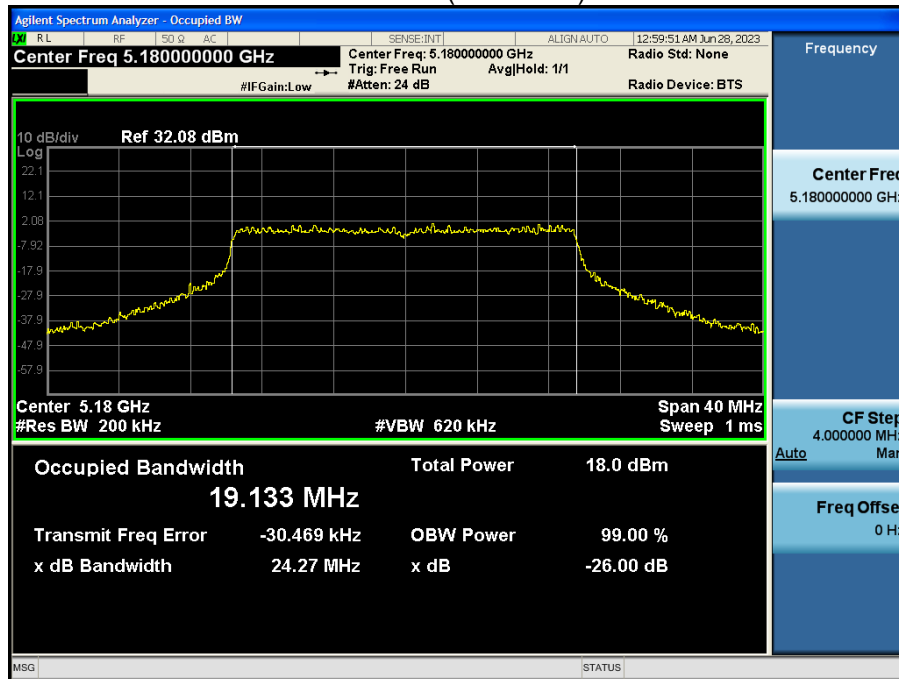


Bandwidth 80M Ch.58(5290 MHz) SU

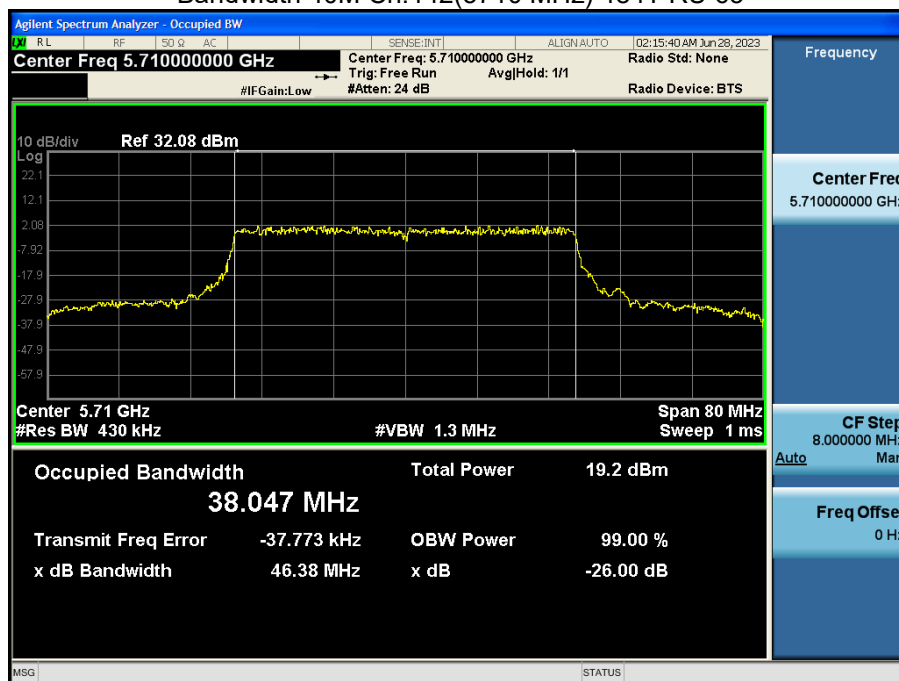


2.3 MIMO Ant. 2

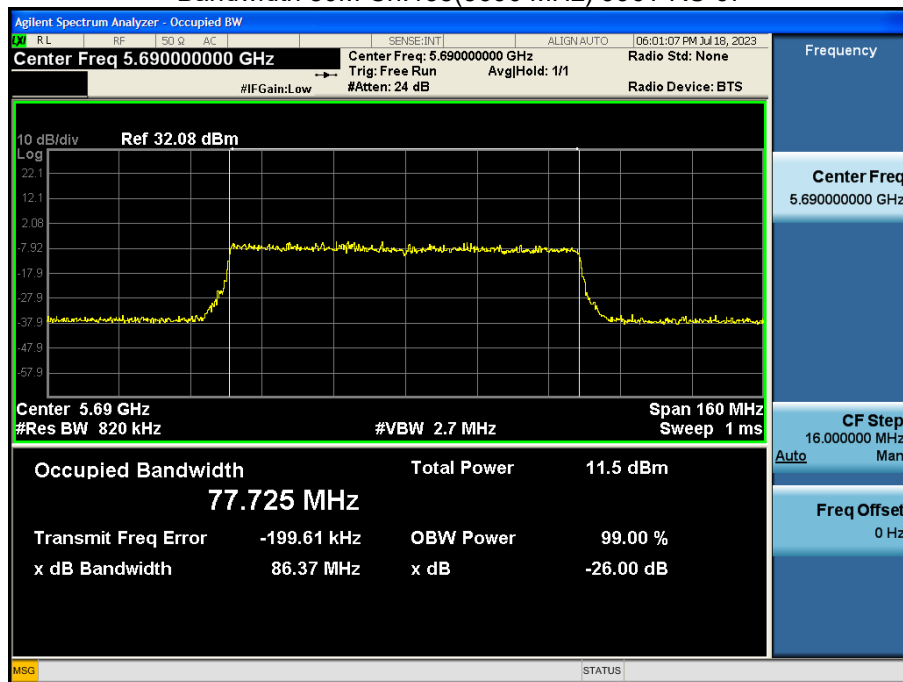
Bandwidth 20M Ch.36(5180 MHz) 242T RU 61



Bandwidth 40M Ch.142(5710 MHz) 484T RU 65



Bandwidth 80M Ch.138(5690 MHz) 996T RU 67



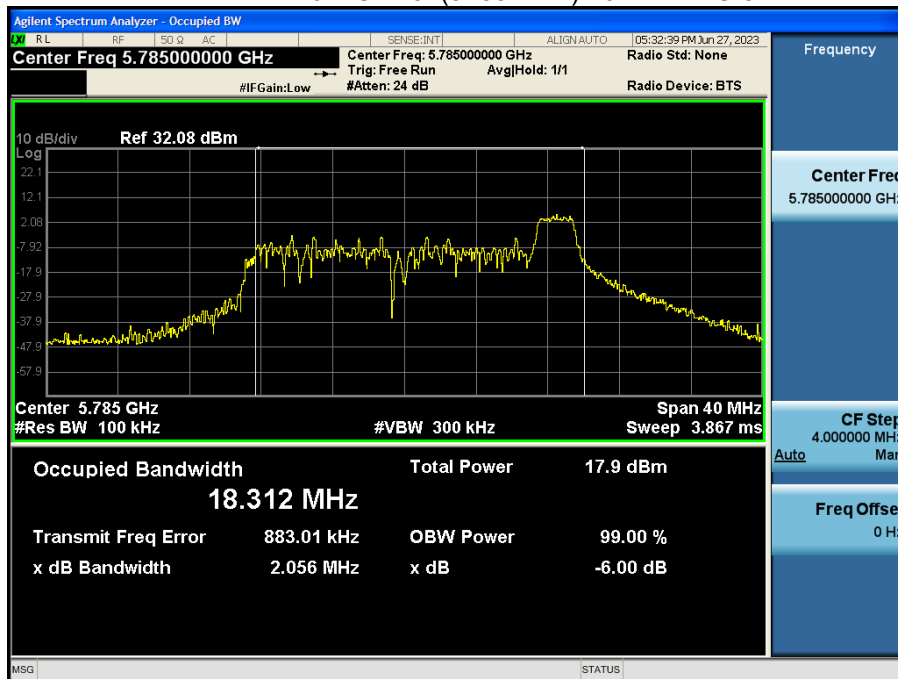
3. 6dB Bandwidth

Note:

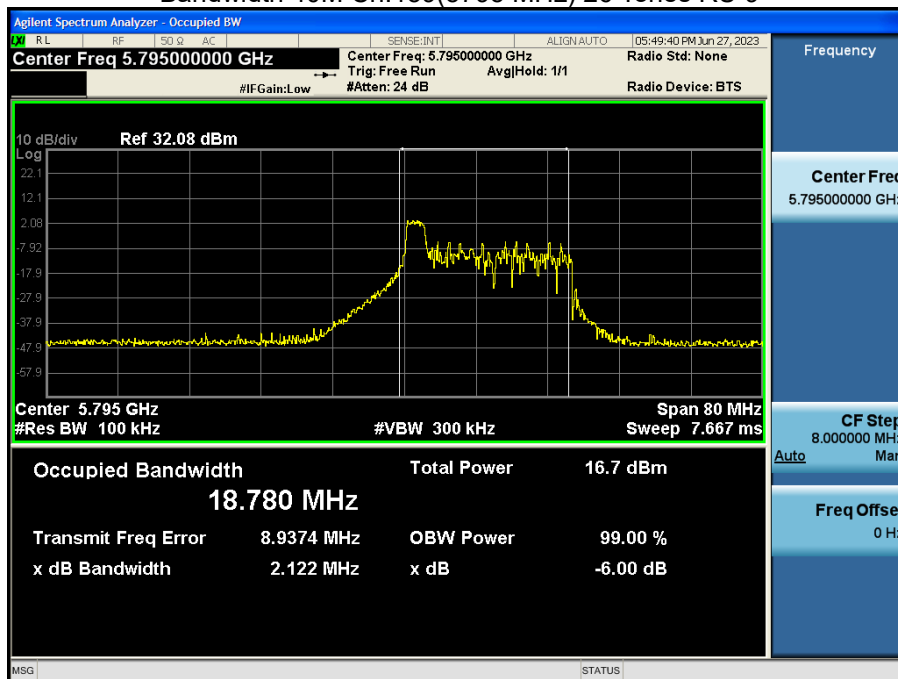
1. In order to simplify the report, attached plots were only the narrowest channel.

3.1 SISO Ant. 2

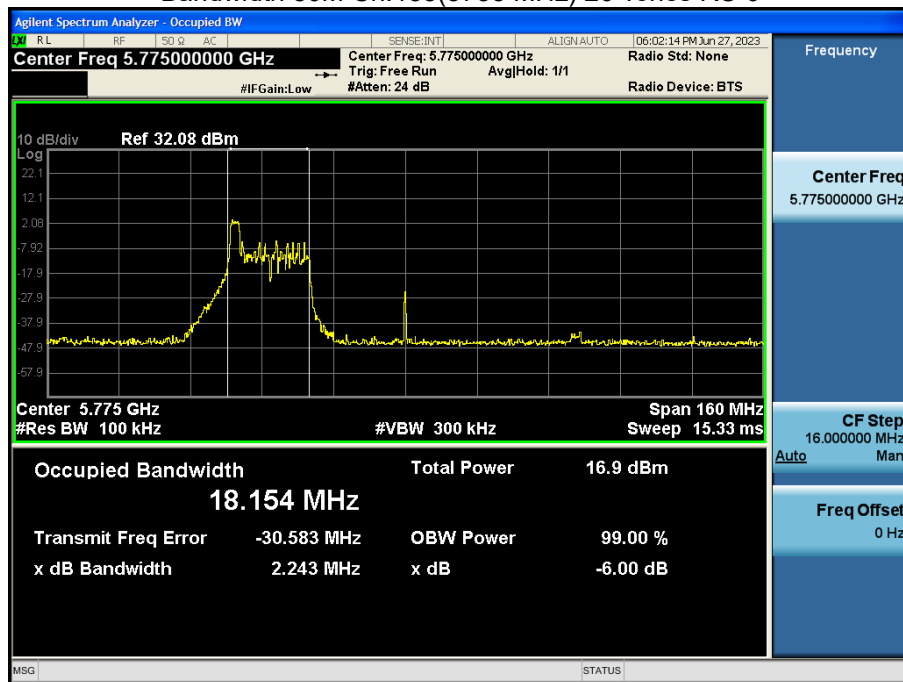
Bandwidth 20M Ch.157(5785 MHz) 26Tones RU 8



Bandwidth 40M Ch.159(5795 MHz) 26 Tones RU 9

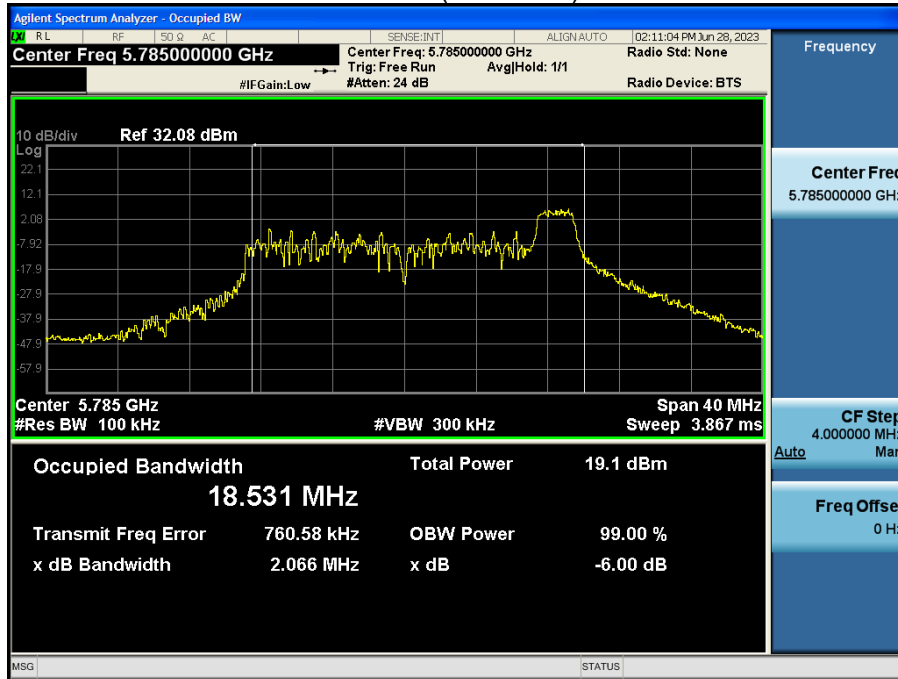


Bandwidth 80M Ch.155(5755 MHz) 26 Tones RU 0

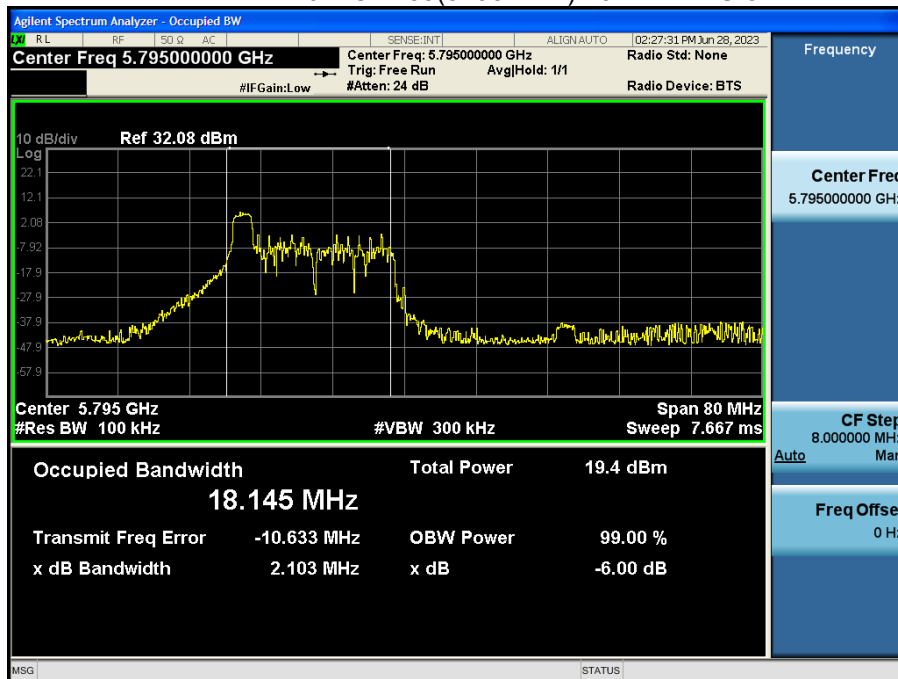


3.2 MIMO Ant. 1

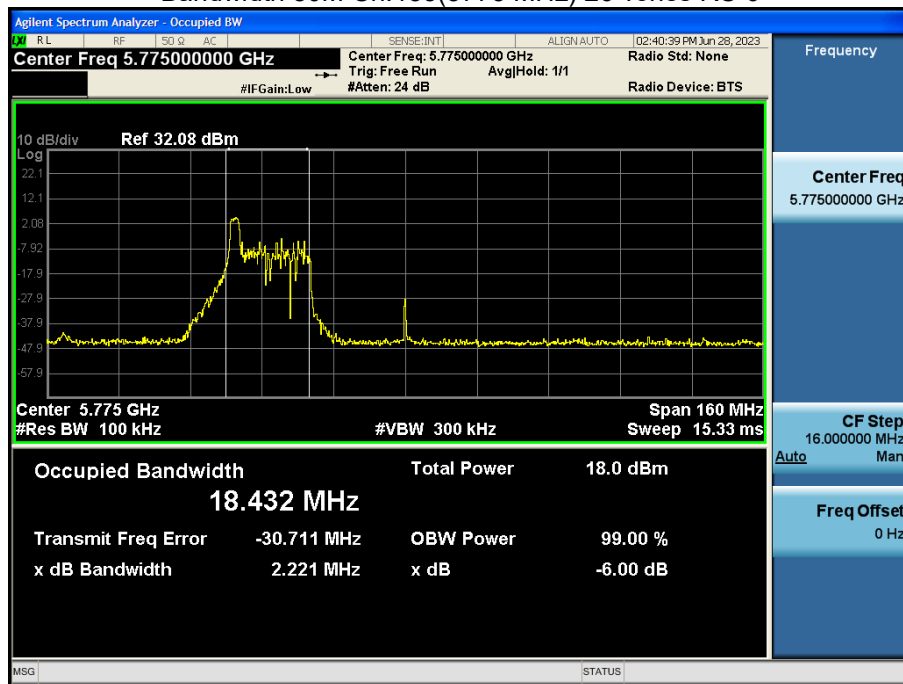
Bandwidth 20M Ch.157(5785 MHz) 26Tones RU 8



Bandwidth 40M Ch.159(5795 MHz) 26 Tones RU 0

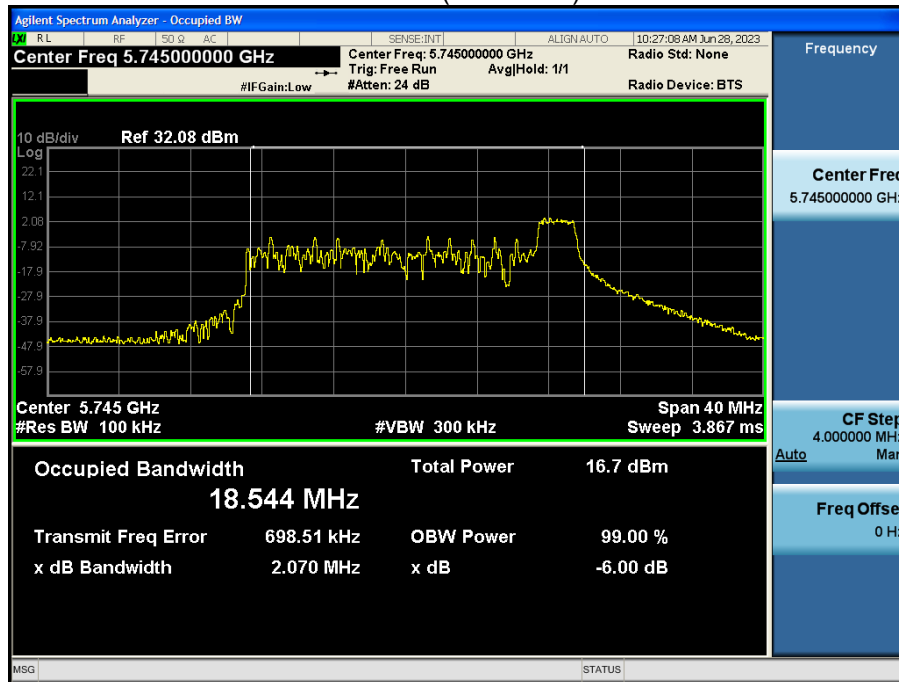


Bandwidth 80M Ch.155(5775 MHz) 26 Tones RU 0

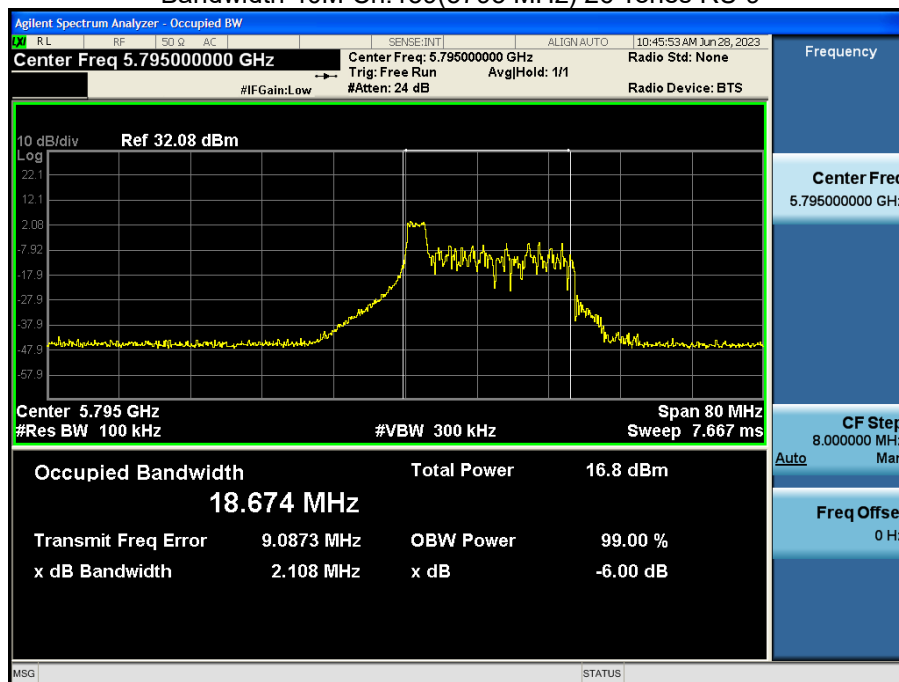


3.3 MIMO Ant. 2

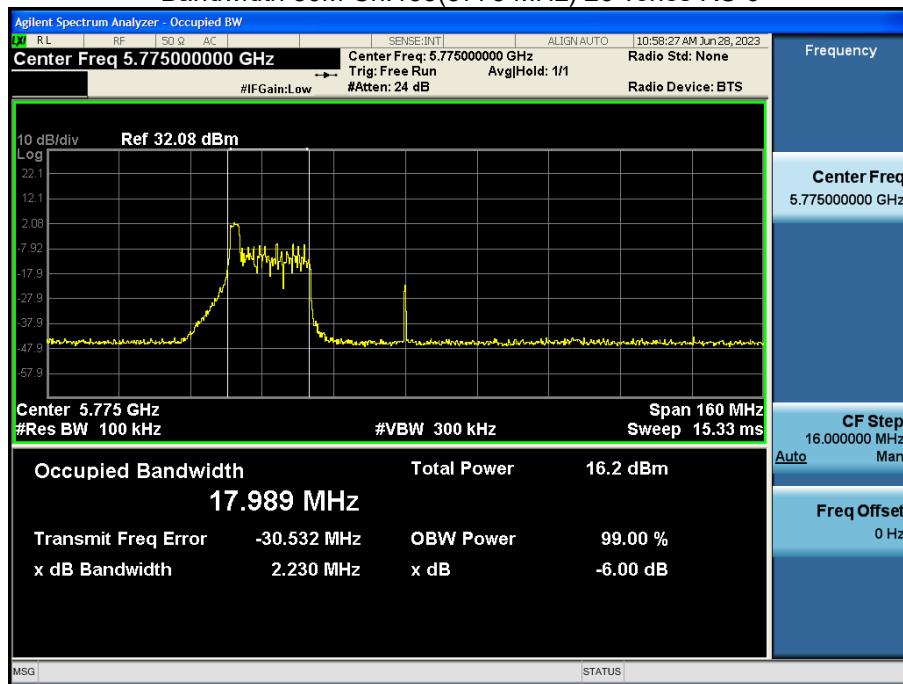
Bandwidth 20M Ch.149(5745 MHz) 26Tones RU 8



Bandwidth 40M Ch.159(5795 MHz) 26 Tones RU 9



Bandwidth 80M Ch.155(5775 MHz) 26 Tones RU 0

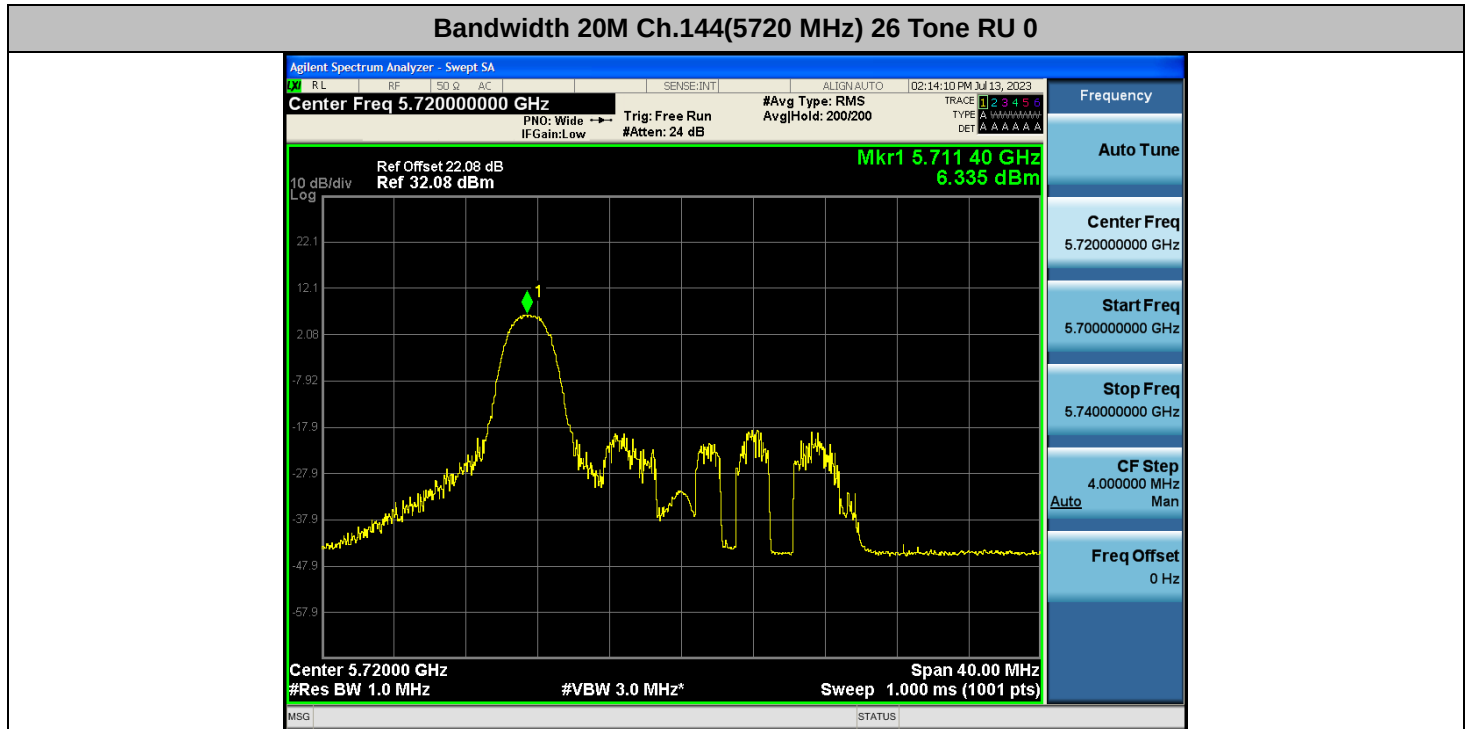


4. Power Spectral Density

Note:

1. In order to simplify the report, attached plots were only channel of highest PSD.

4.1 SISO Ant. 2



PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.335	0.094	6.429

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

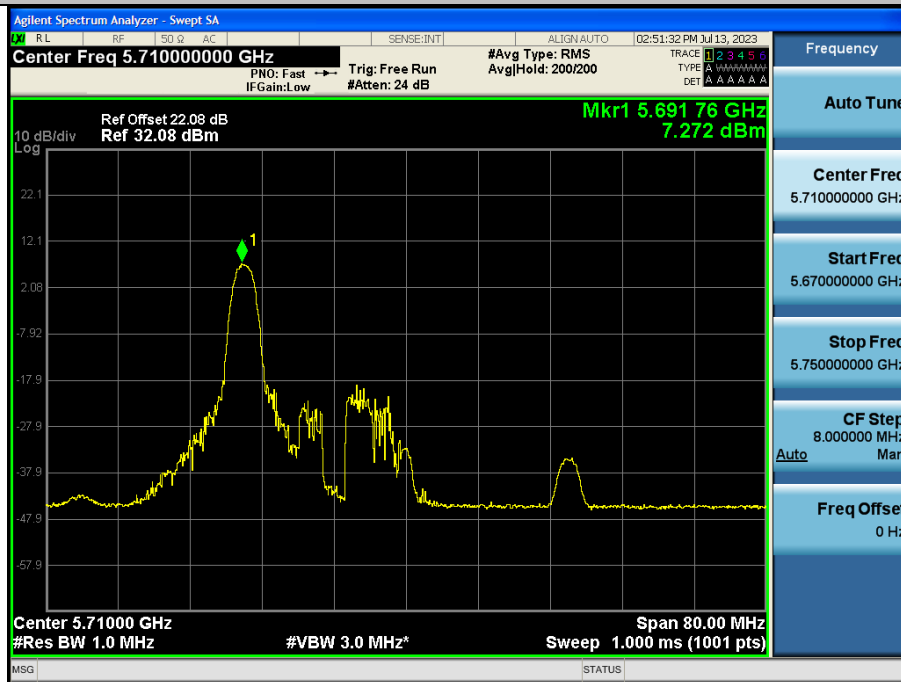
Bandwidth 20M Ch.149(5745MHz) 26 Tone RU 4



PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.543	0.094	4.637

Note:
 Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

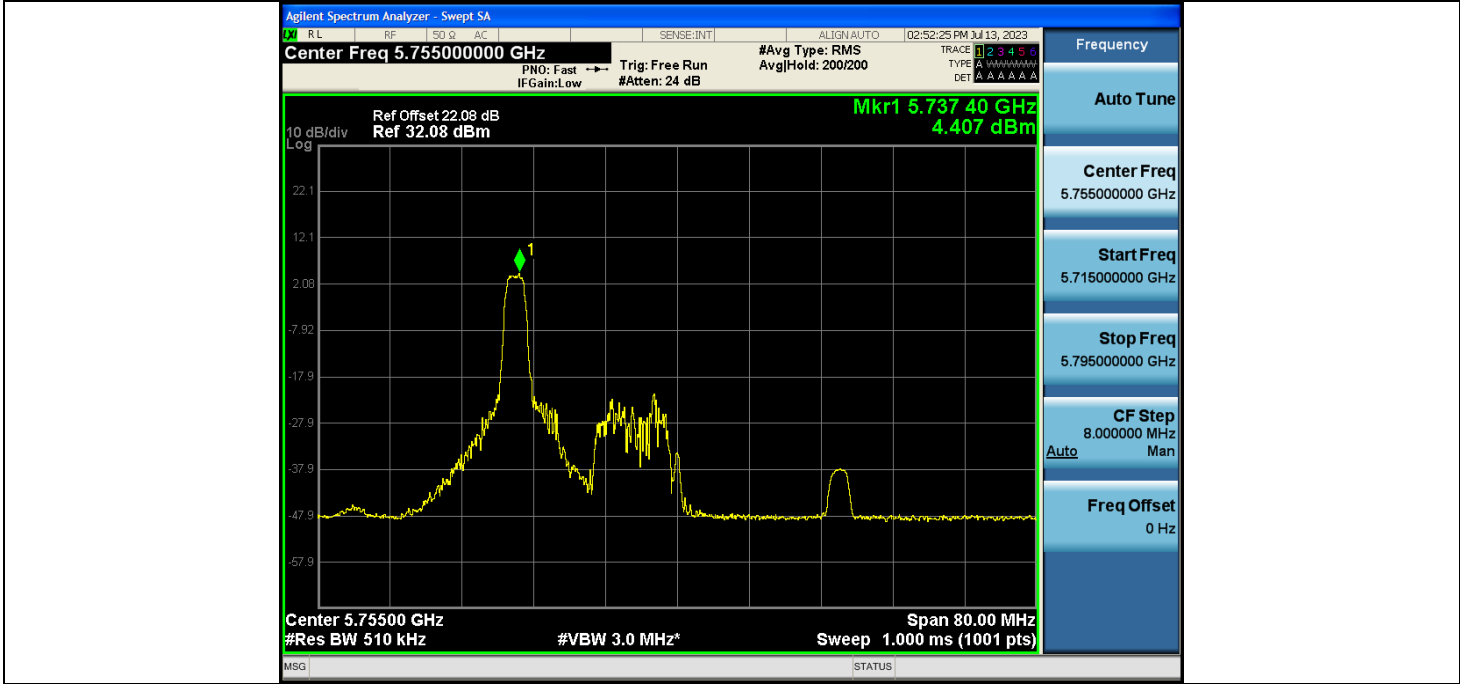
Bandwidth 40M Ch.142 (5710 MHz) 26Tone RU 0



Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

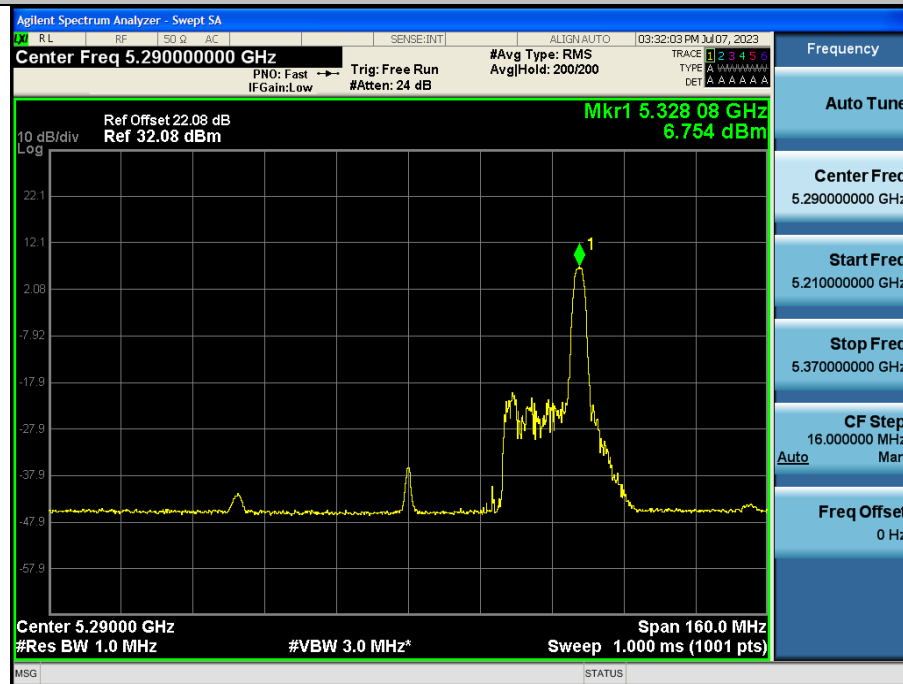
Bandwidth 40M Ch.151 (5755 MHz) 26 Tone RU 0



PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.407	0.100	4.507

Note:
 Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 80M Ch.58 (5290 MHz) 26 Tone RU 36

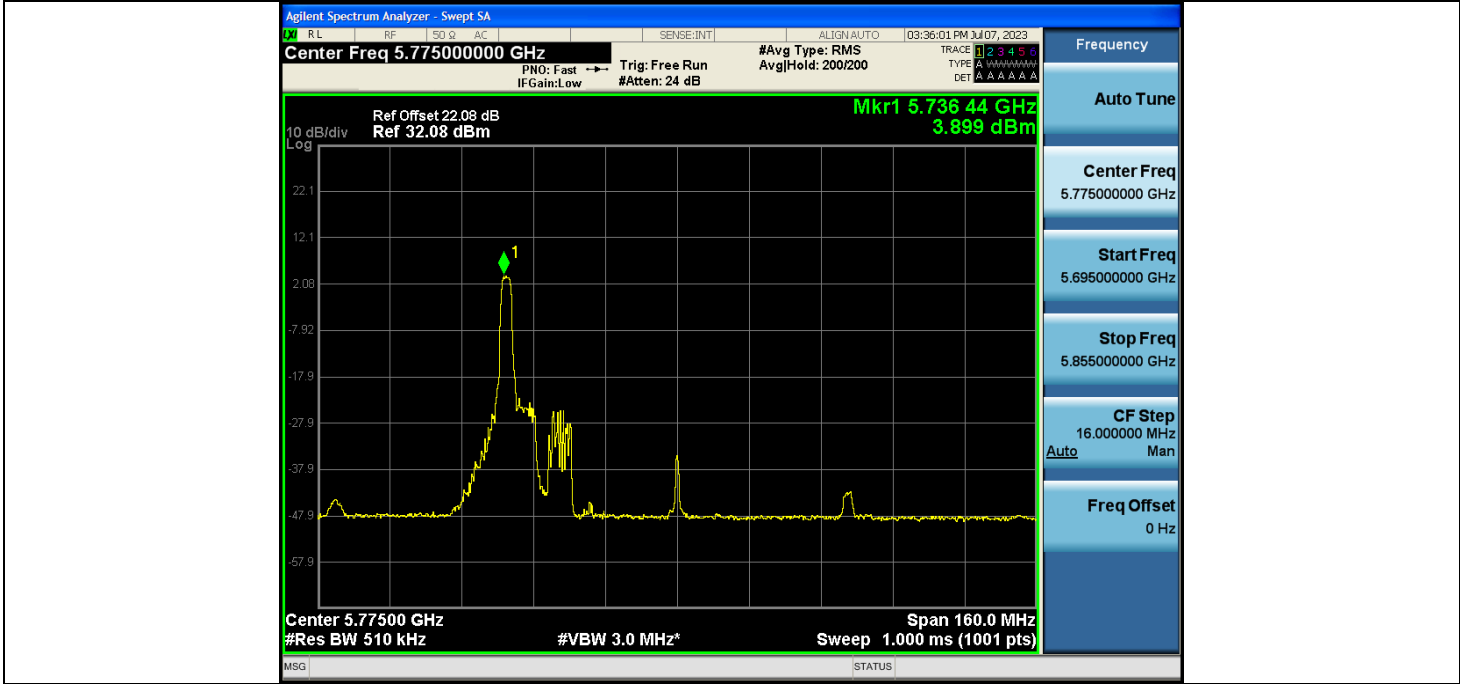


PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.754	0.088	6.842

Note:

$$\text{Total PSD (dBm)} = \text{Measured Value (dBm)} + \text{Duty Cycle Factor (dB)}$$

Bandwidth 80M Ch.155 (5775 MHz) 26 Tone RU 0



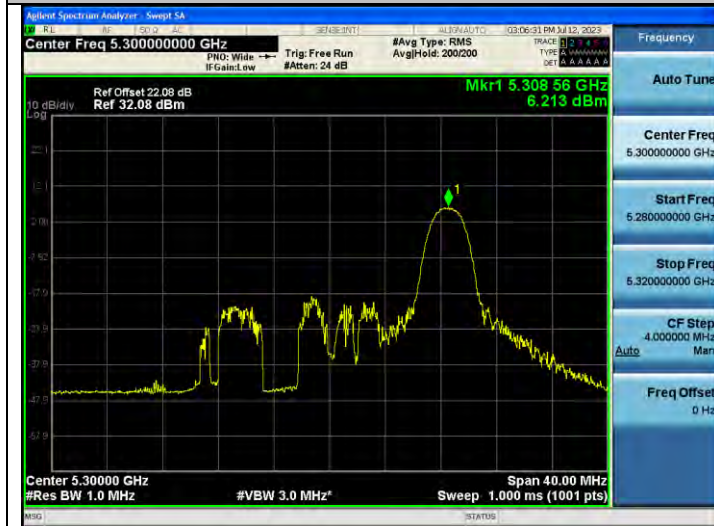
PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
3.899	0.088	3.987

Note:
 Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

4.2 SUM (MIMO Ant 1 + MIMO Ant 2)

Bandwidth 20M Ch.60(5300MHz) 26 Tone RU 8

Ant1



Ant2



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
9.030	0.092	9.122

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 20M Ch.149(5745MHz) 26 Tone RU 4

Ant1



Ant2



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.815	0.092	5.907

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 40M Ch.54 (5270 MHz) 26Tone RU 17

Ant1



Ant2



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
8.738	0.098	8.836

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 40M Ch.151 (5755 MHz) 26Tone RU 0

Ant1



Ant2



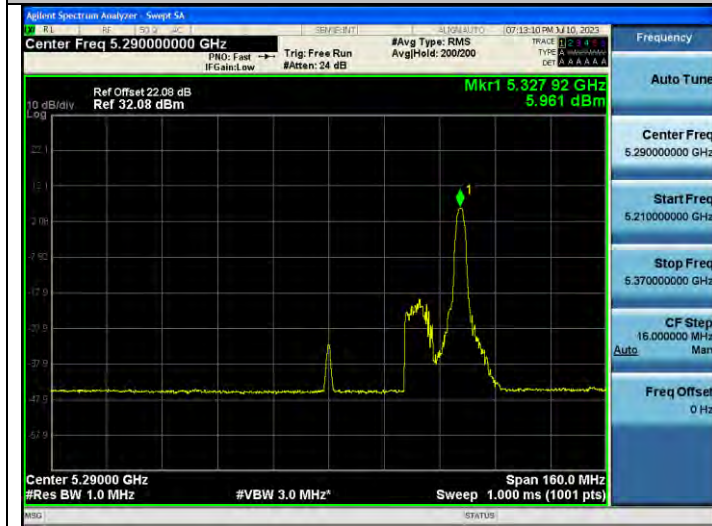
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.517	0.098	5.615

Note:

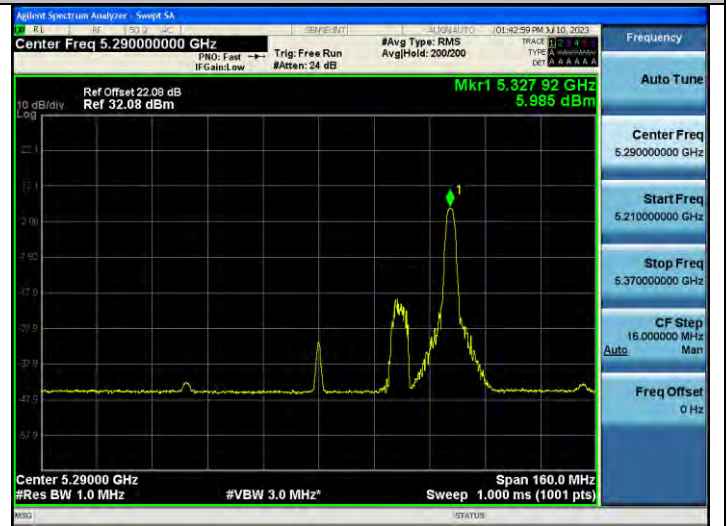
Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 80M Ch.58 (5290 MHz) 26Tone RU 36

Ant1



Ant2



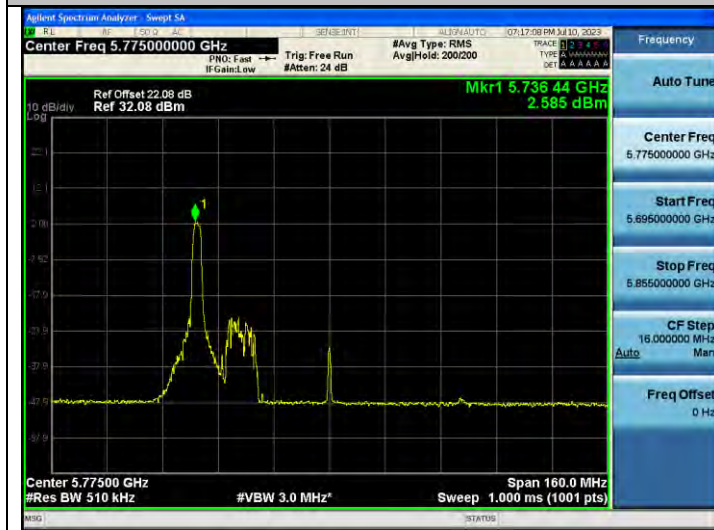
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
8.983	0.102	9.085

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 80M Ch.155 (5775 MHz) 26 Tone RU 0

Ant1



Ant2



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.596	0.102	5.697

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

5. Straddle Channel

5.1 26dB Bandwidth

Note:

1. In order to simplify the report, attached plots were only the widest channel. (UNII1~3)

5.1.1 SISO Ant. 2

(26dB) Bandwidth 20M Ch.144(5720 MHz) 106 Tones RU 53

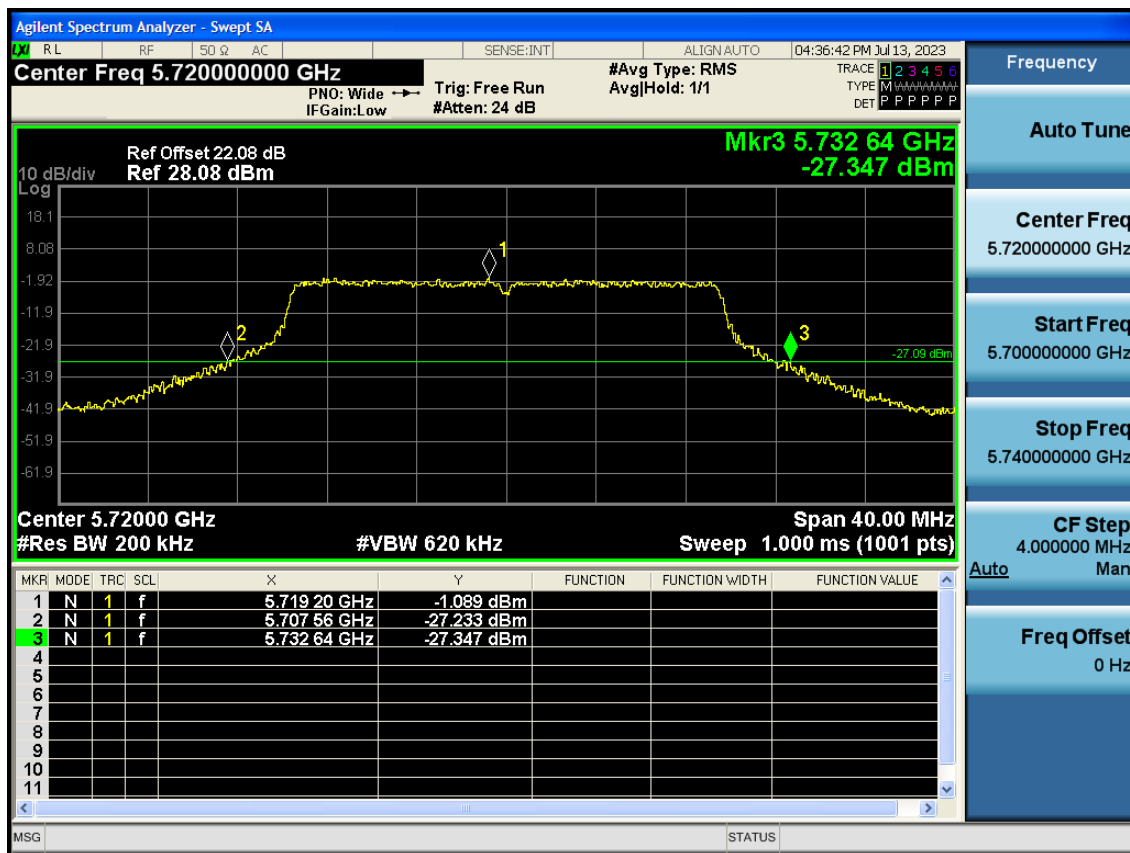


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5707.48	17.52

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26 dB) Bandwidth 20M Ch.144(5720 MHz) 242 Tones RU 61

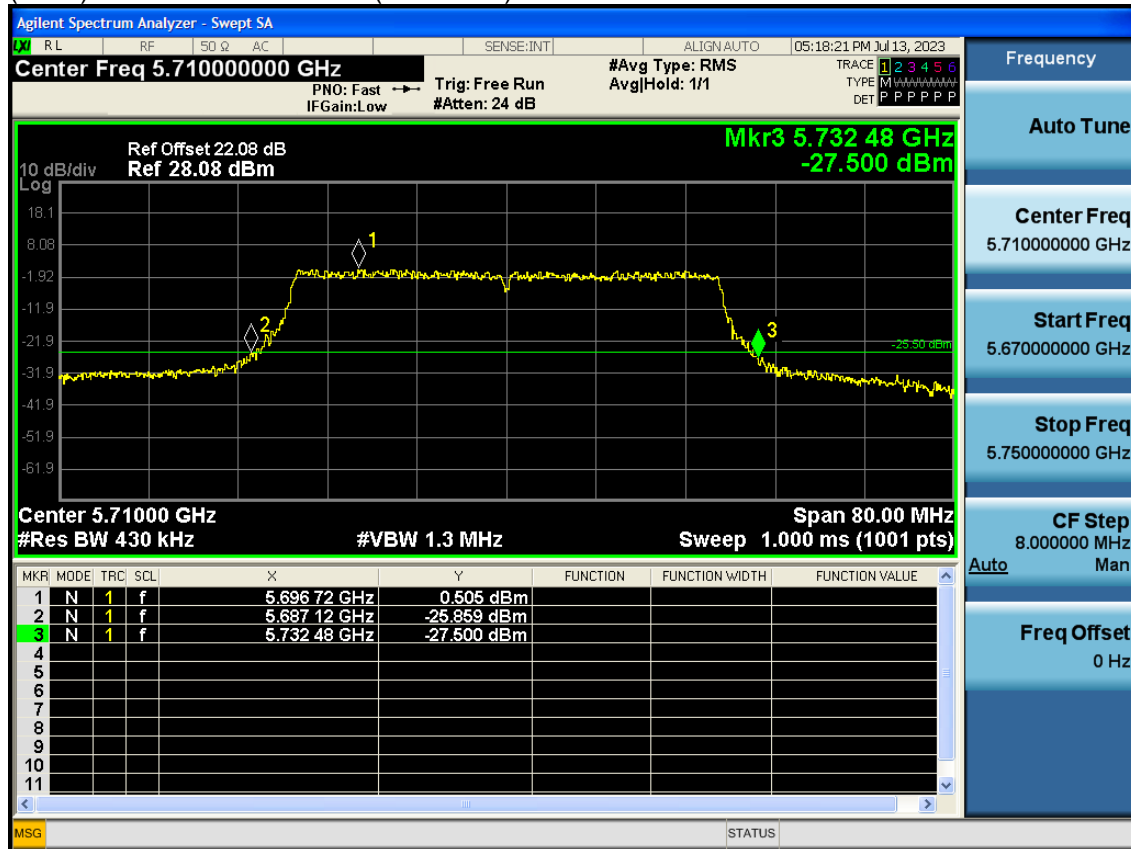


UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732.64	5725	7.64

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26dB) Bandwidth 40M Ch.142(5710 MHz) 484 Tones RU 65

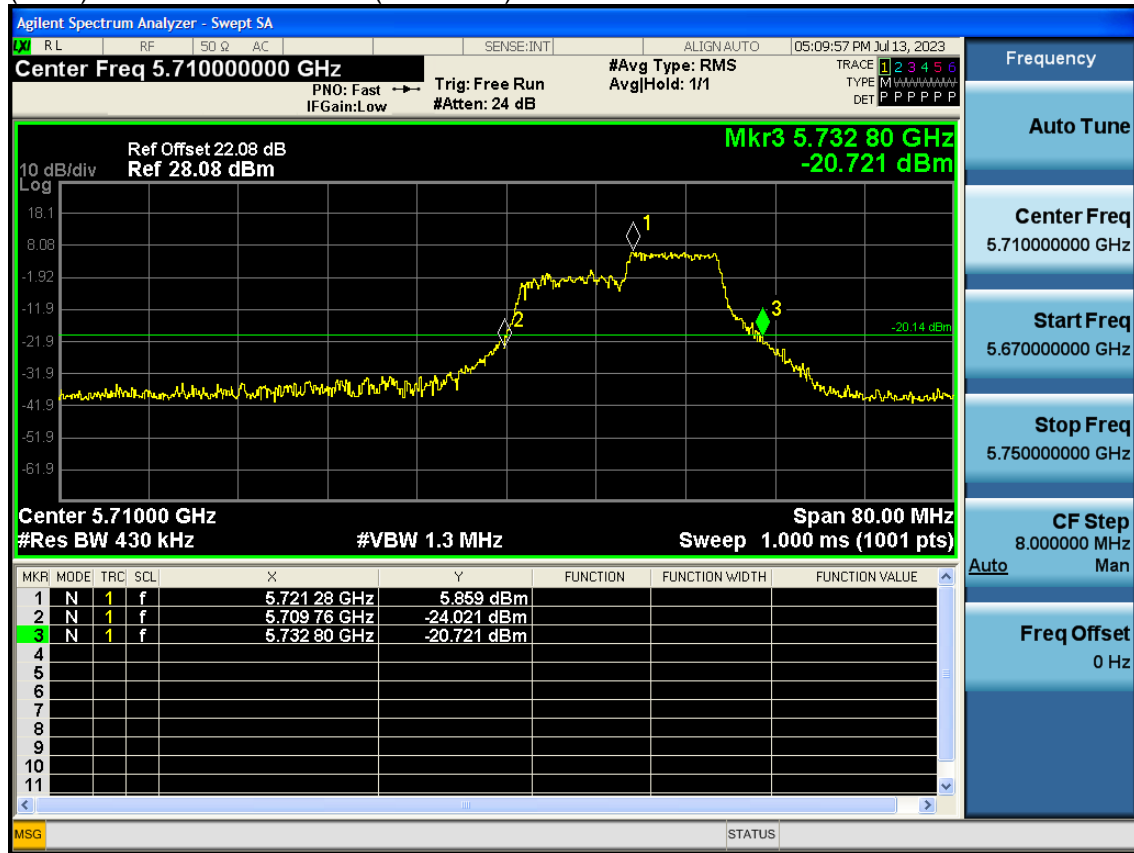


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5687.12	37.88

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 40M Ch.142(5710 MHz) 106 Tones RU 56

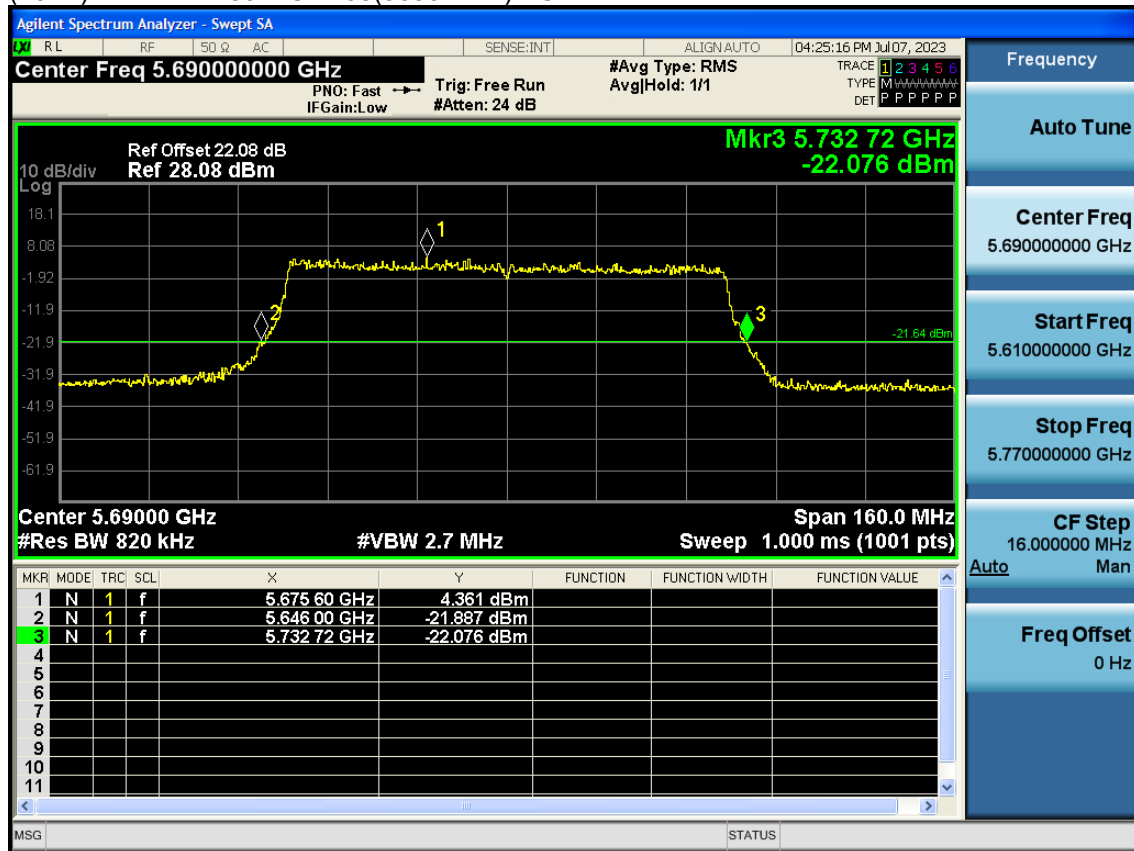


UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732.8	5725	7.80

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26dB) Bandwidth 80M Ch.138(5690 MHz) SU

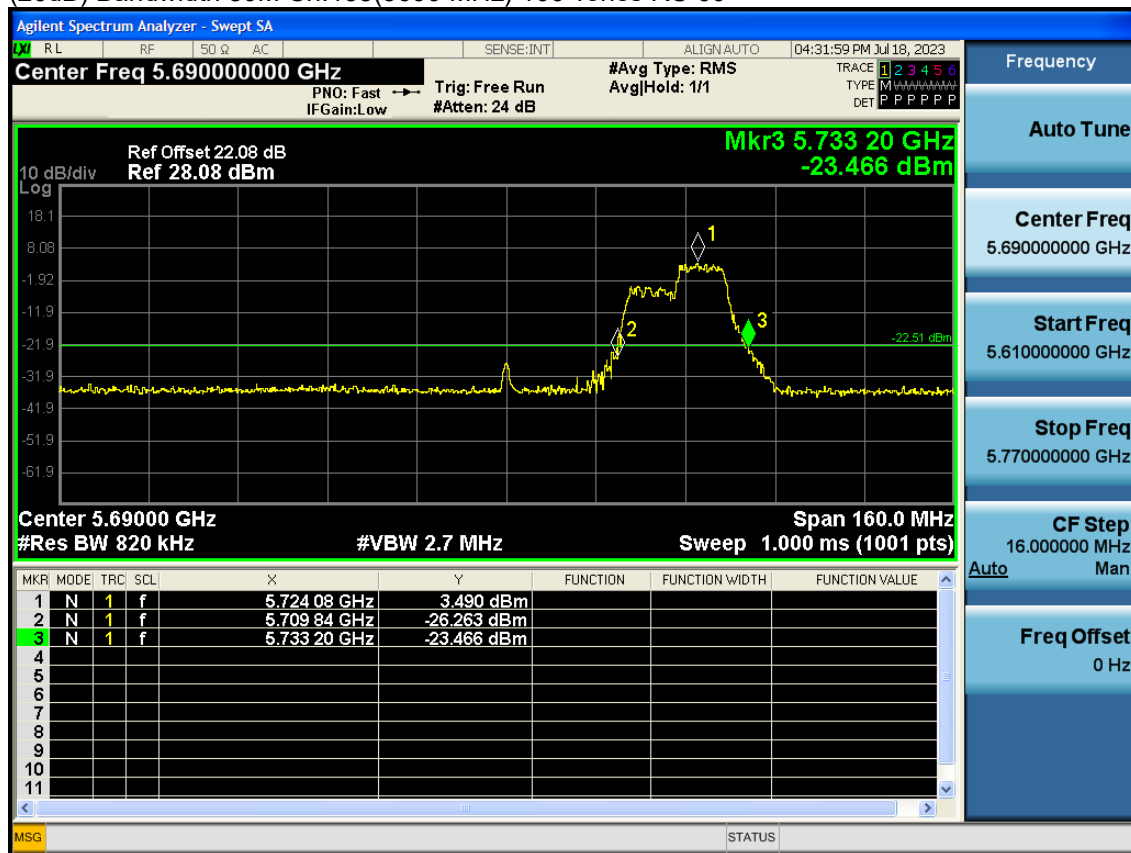


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5646.00	79.00

Note:

1. [UNII 2C] 26dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 80M Ch.138(5690 MHz) 106 Tones RU 60



UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5733.2	5725	8.20

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

5.1.2 MIMO Ant. 1

(26dB) Bandwidth 20M Ch.144(5720 MHz) 106 Tones RU 53



UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5707.44	17.56

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 20M Ch.144(5720 MHz) 106 Tones RU 54

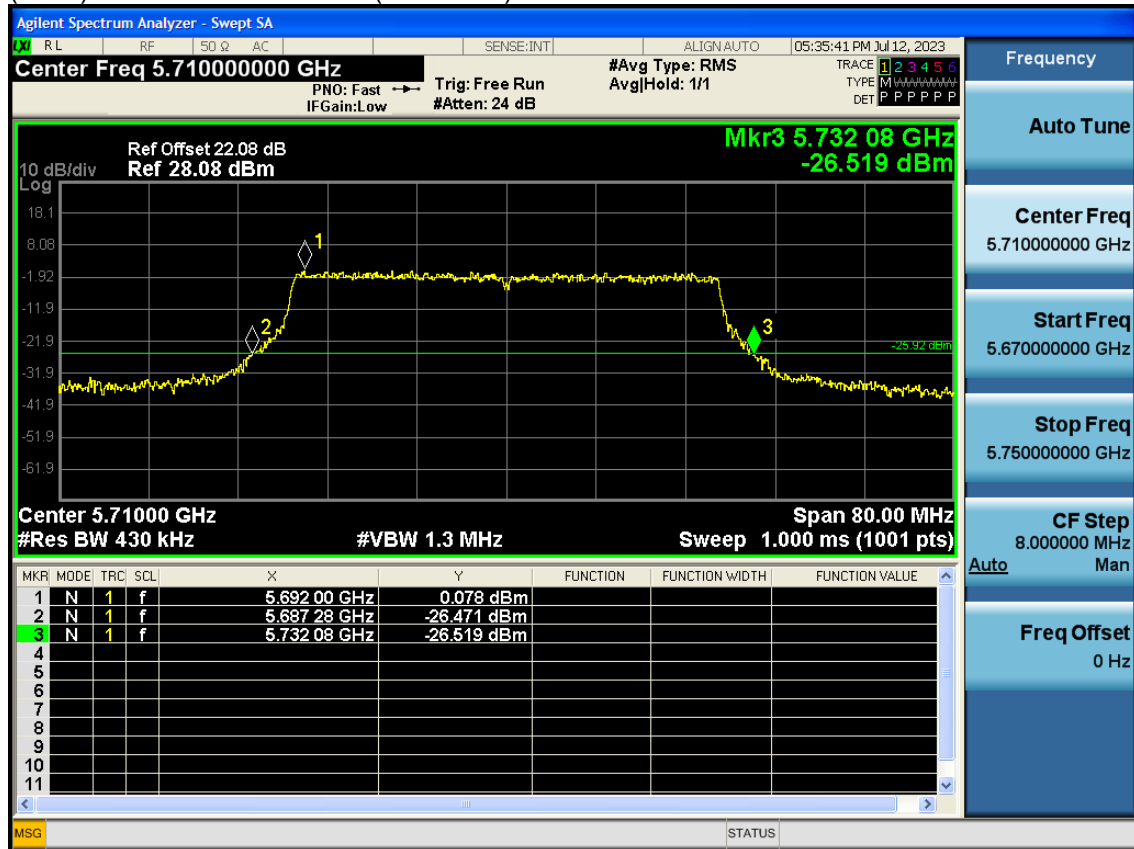


UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732.72	5725	7.72

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26dB) Bandwidth 40M Ch.142(5710 MHz) 484 Tones RU 65

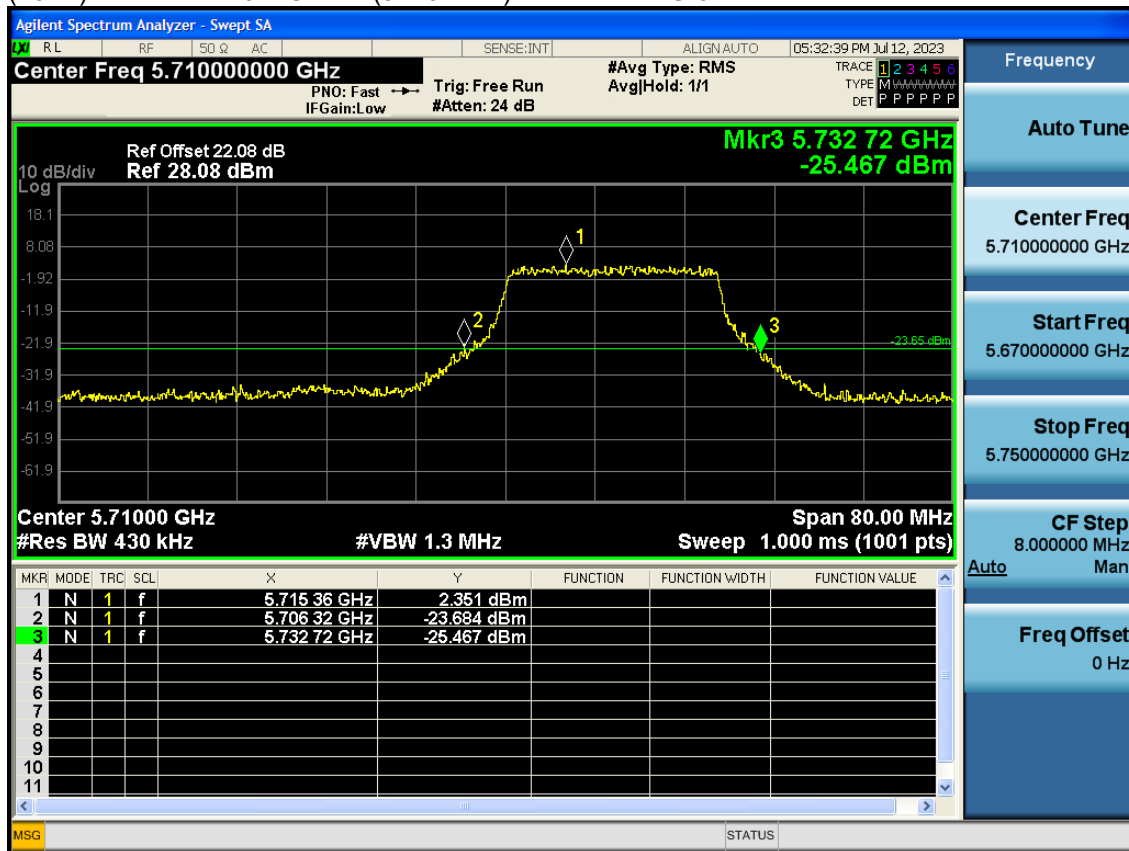


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5687.28	37.72

Note:

1. [UNII 2C] 26dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 40M Ch.142(5710 MHz) 242 Tones RU 62

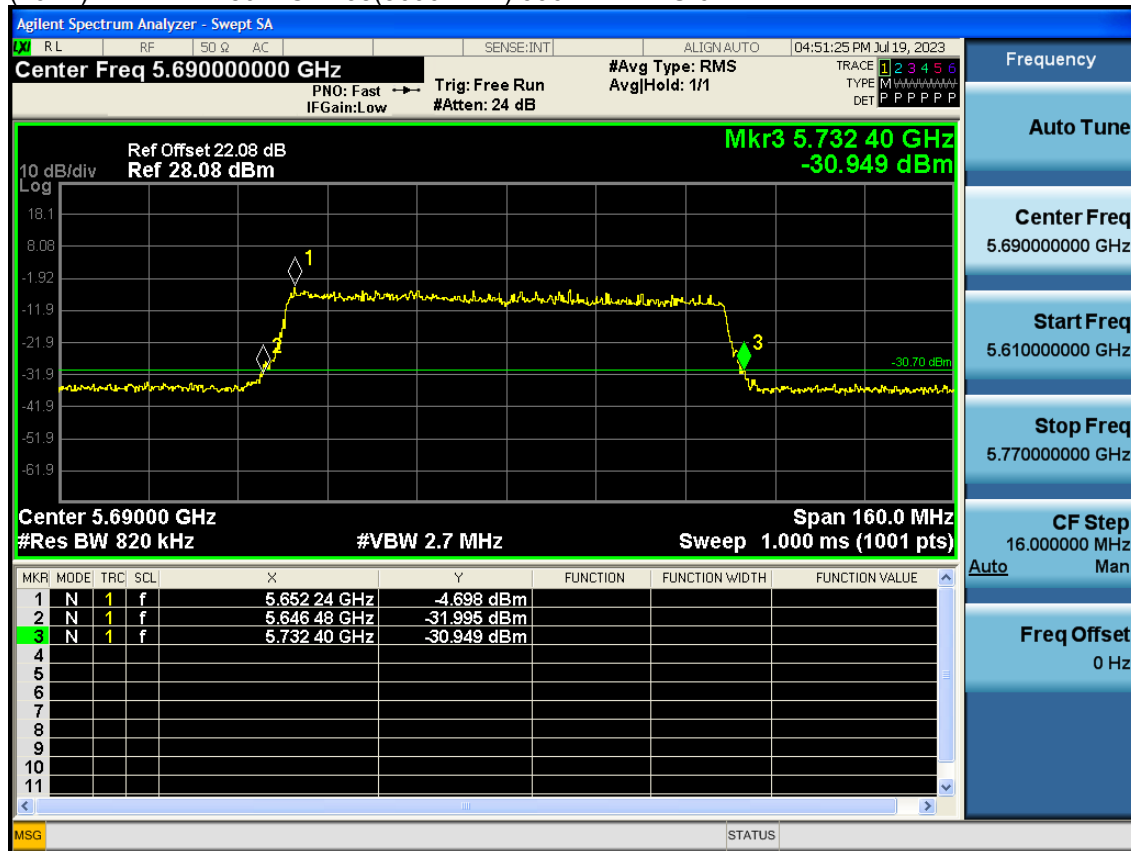


UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732.72	5725	7.72

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26dB) Bandwidth 80M Ch.138(5690 MHz) 996 Tones RU 67

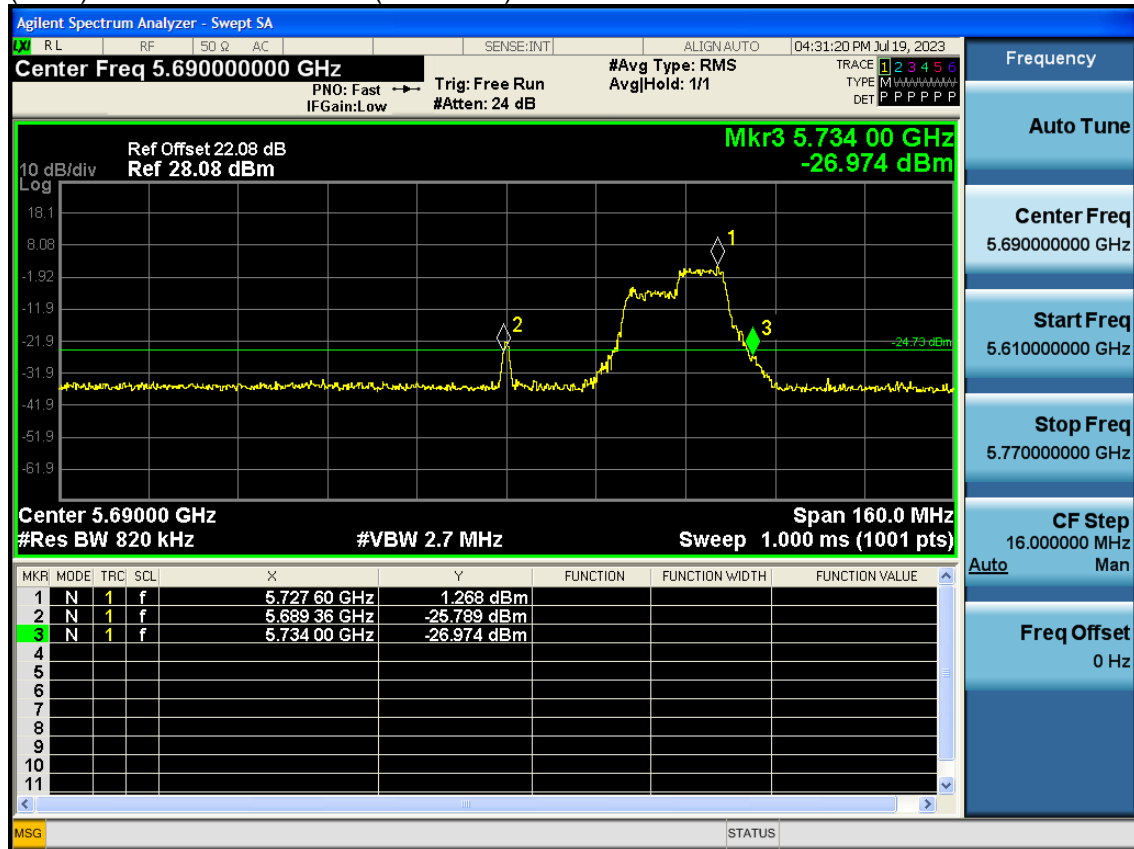


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5646.48	78.52

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 80M Ch.138(5690 MHz) 106 Tones RU 60



UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5734	5725	9.00

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

5.1.3 MIMO Ant. 2

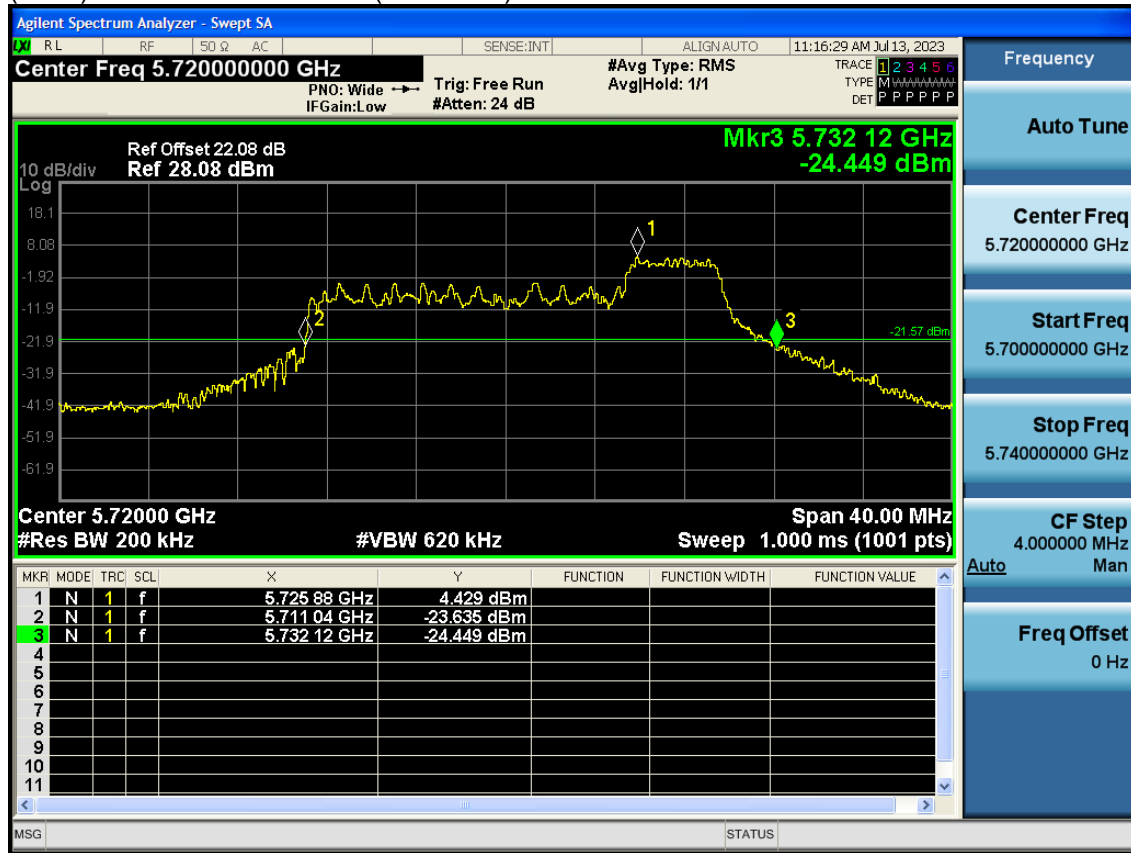
(26dB) Bandwidth 20M Ch.144(5720 MHz) 242 Tones RU 61



UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5707.76	17.24

Note:
 1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 20M Ch.144(5720 MHz) 52 Tones RU 40

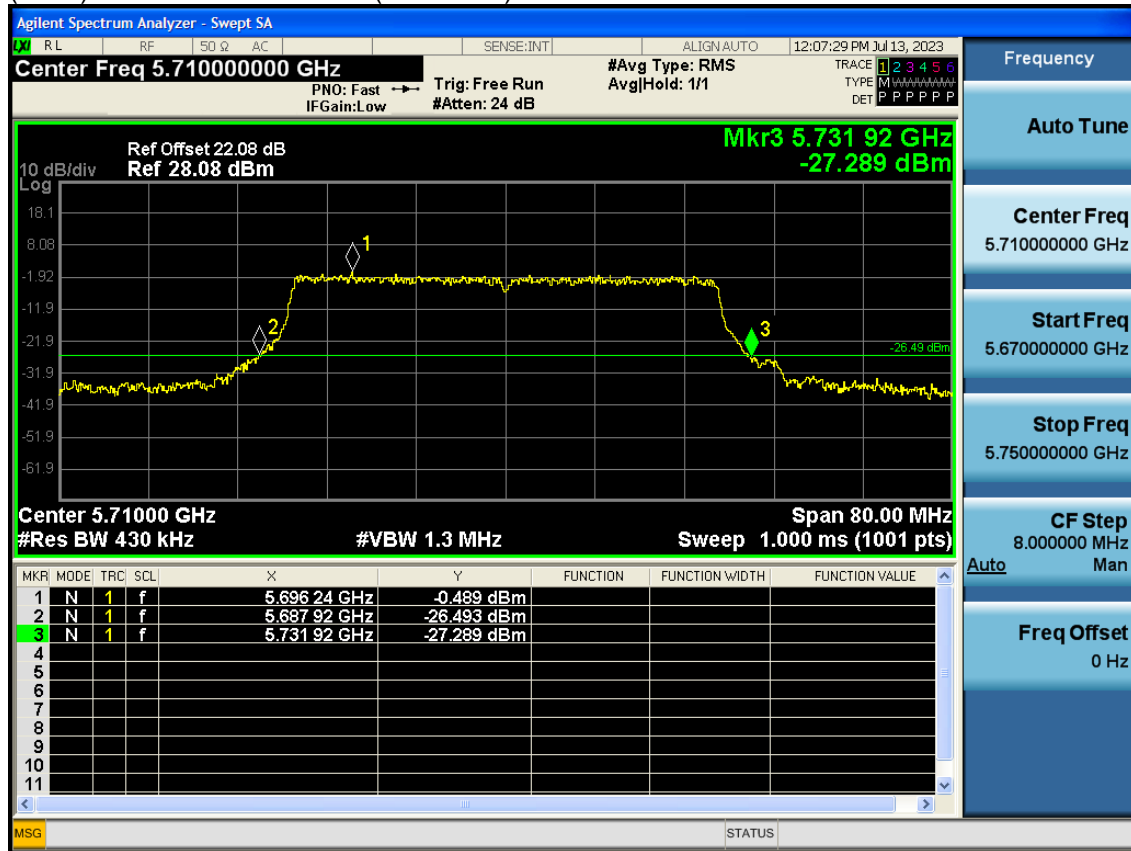


UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732.12	5725	7.12

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26dB) Bandwidth 40M Ch.142(5710 MHz) 484 Tones RU 65

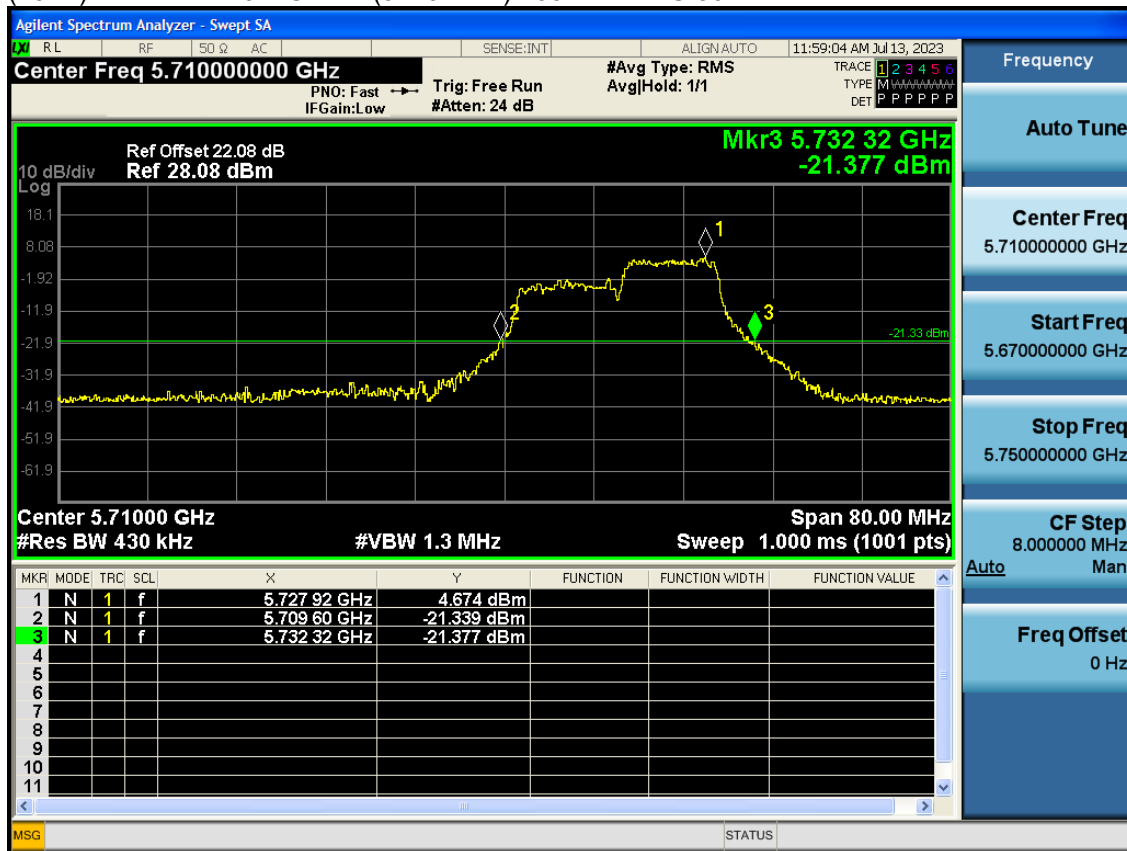


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5687.92	37.08

Note:

1. [UNII 2C] 26dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 40M Ch.142(5710 MHz) 106 Tones RU 56

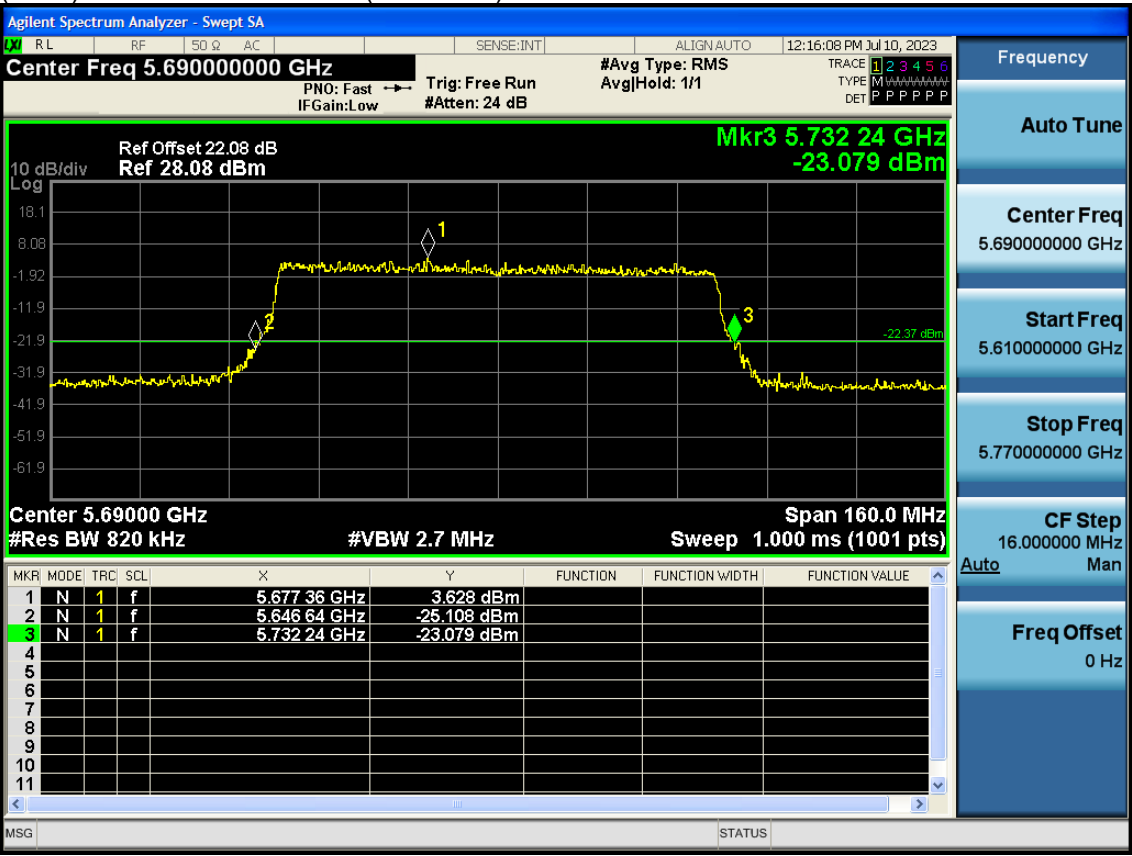


UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732.32	5725	7.32

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

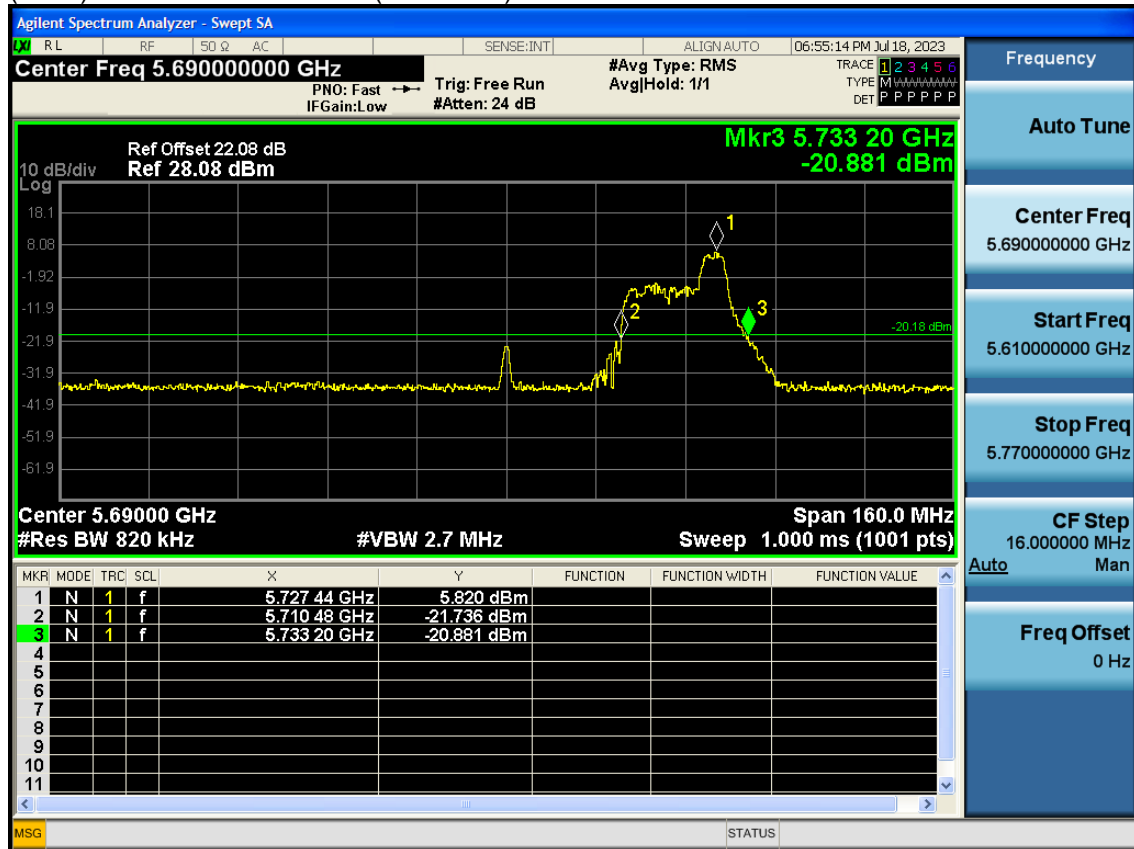
(26dB) Bandwidth 80M Ch.138(5690 MHz) SU



UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5646.64	78.36

Note:
 1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26dB) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 52



UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5733.2	5725	8.20

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

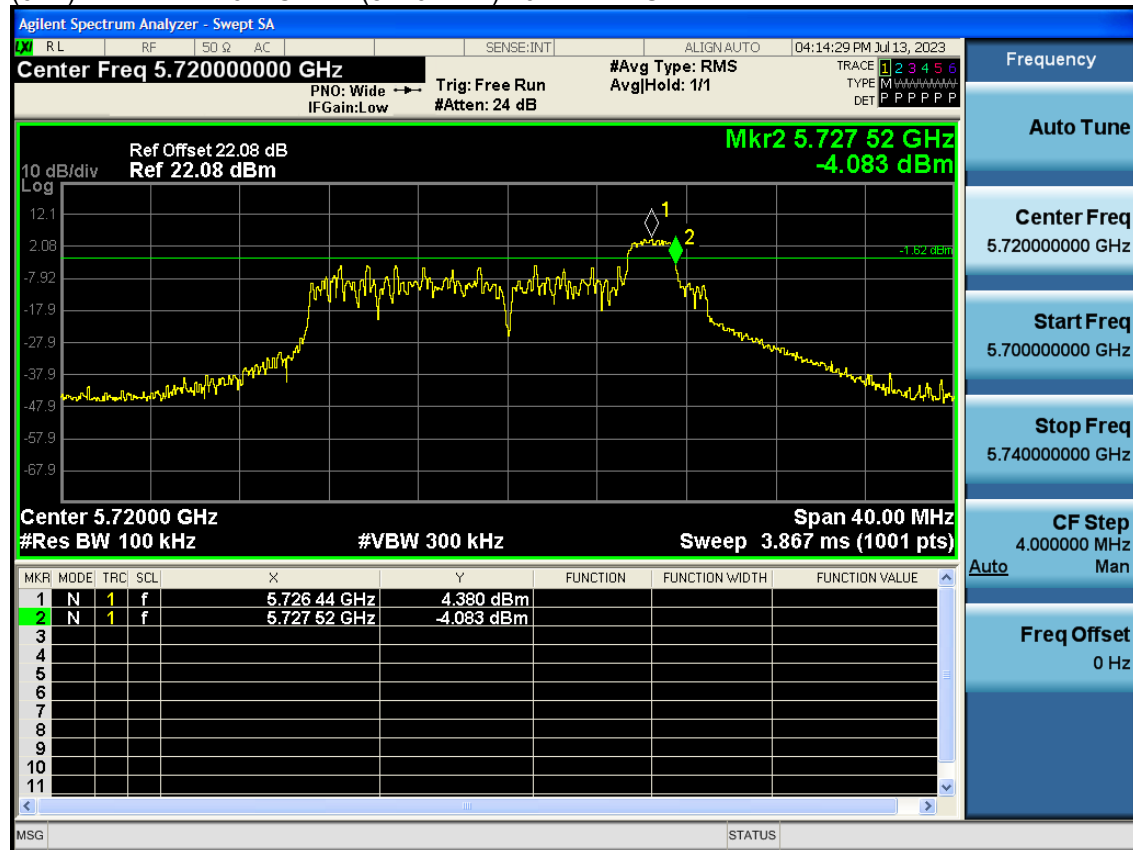
5.2 6dB Bandwidth

Note:

1. In order to simplify the report, attached plots were only the narrowest channel. (UNII1~3)

5.2.1 SISO Ant. 2

(6dB) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 7

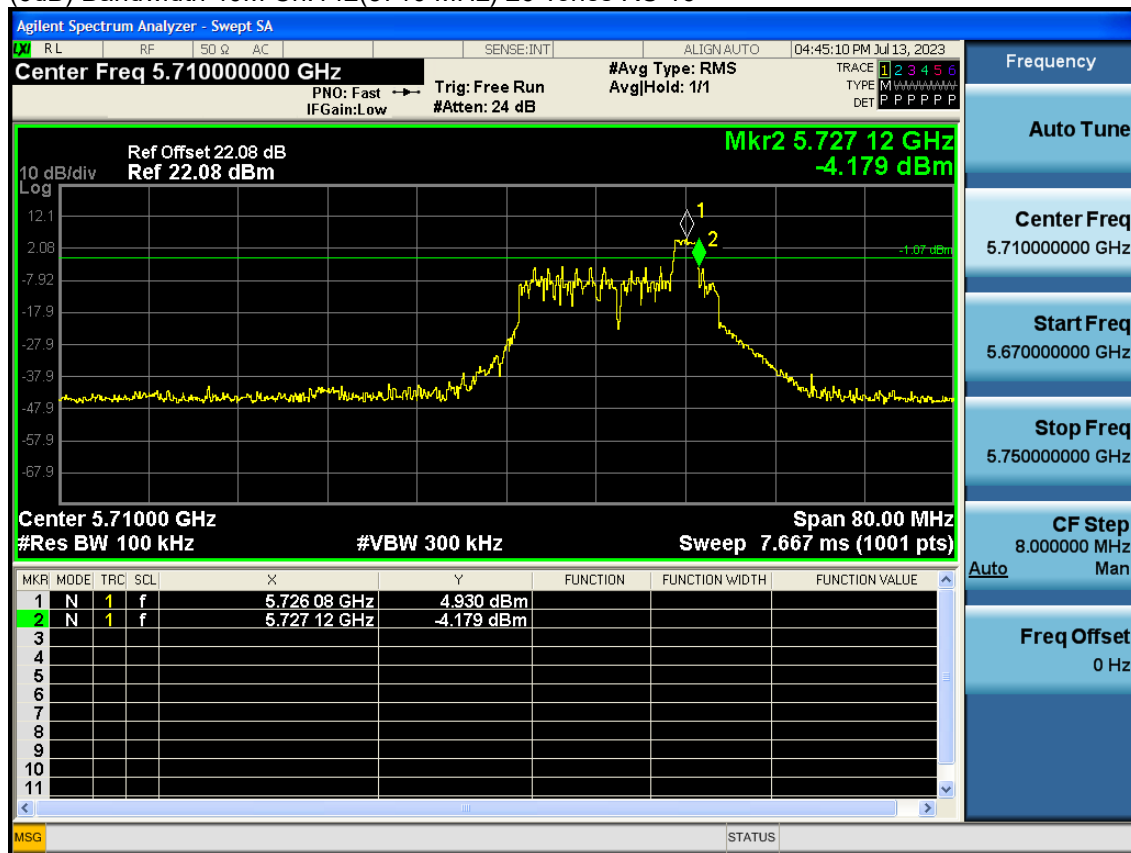


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725	2.52

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6dB) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

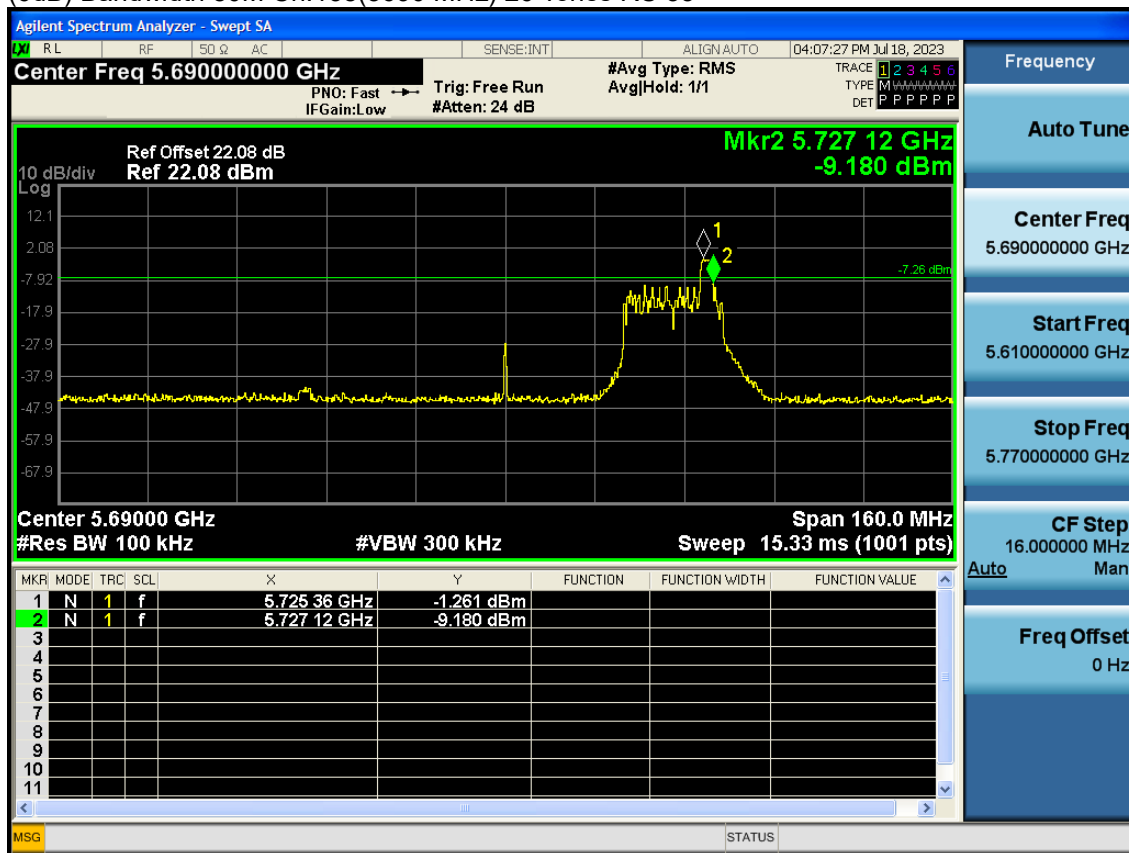


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.12	5725	2.12

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6dB) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



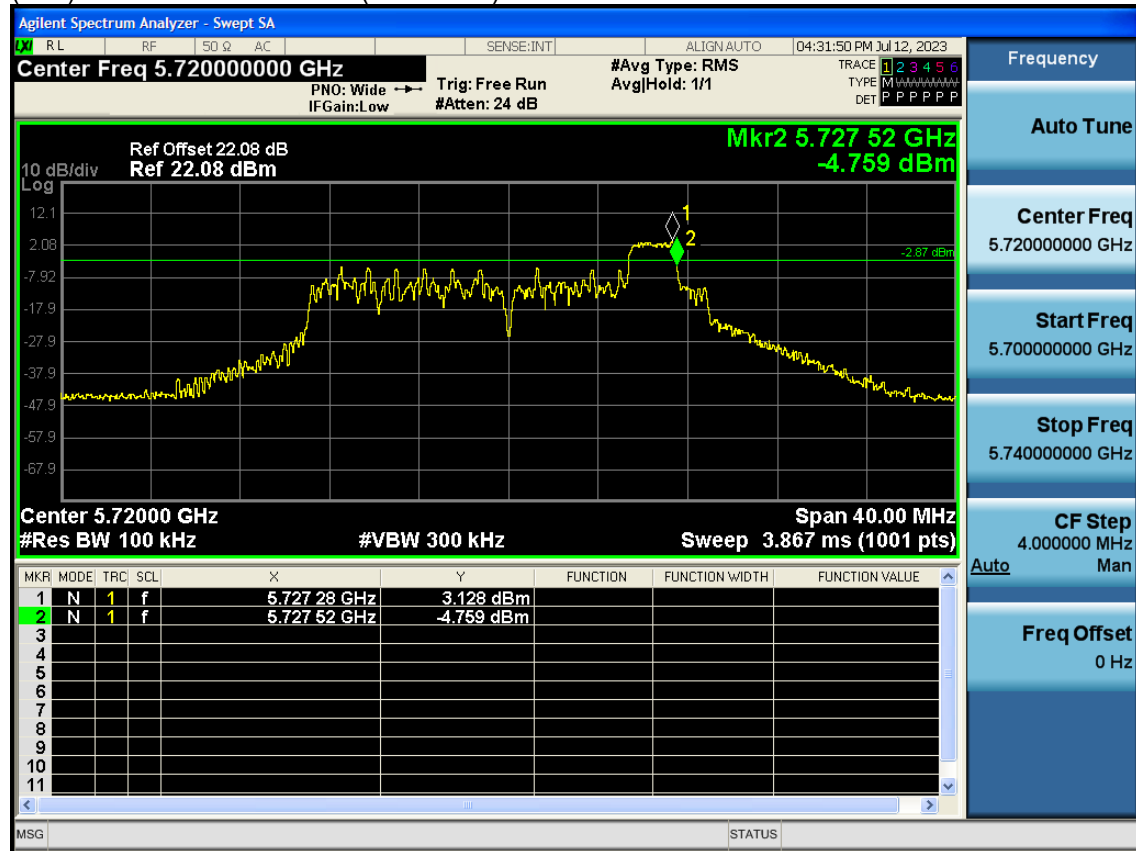
Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.12	5725	2.12

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

5.2.2 MIMO Ant. 1

(6dB) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 7

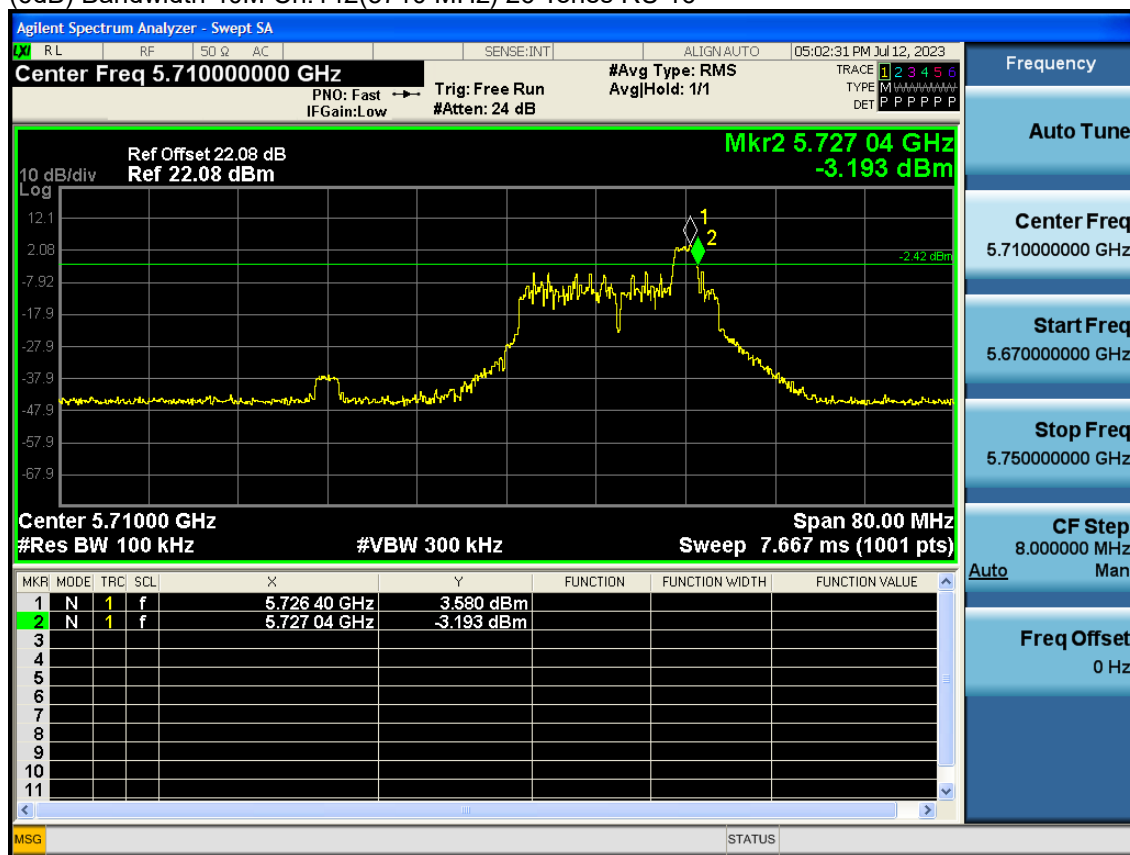


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725	2.52

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6dB) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

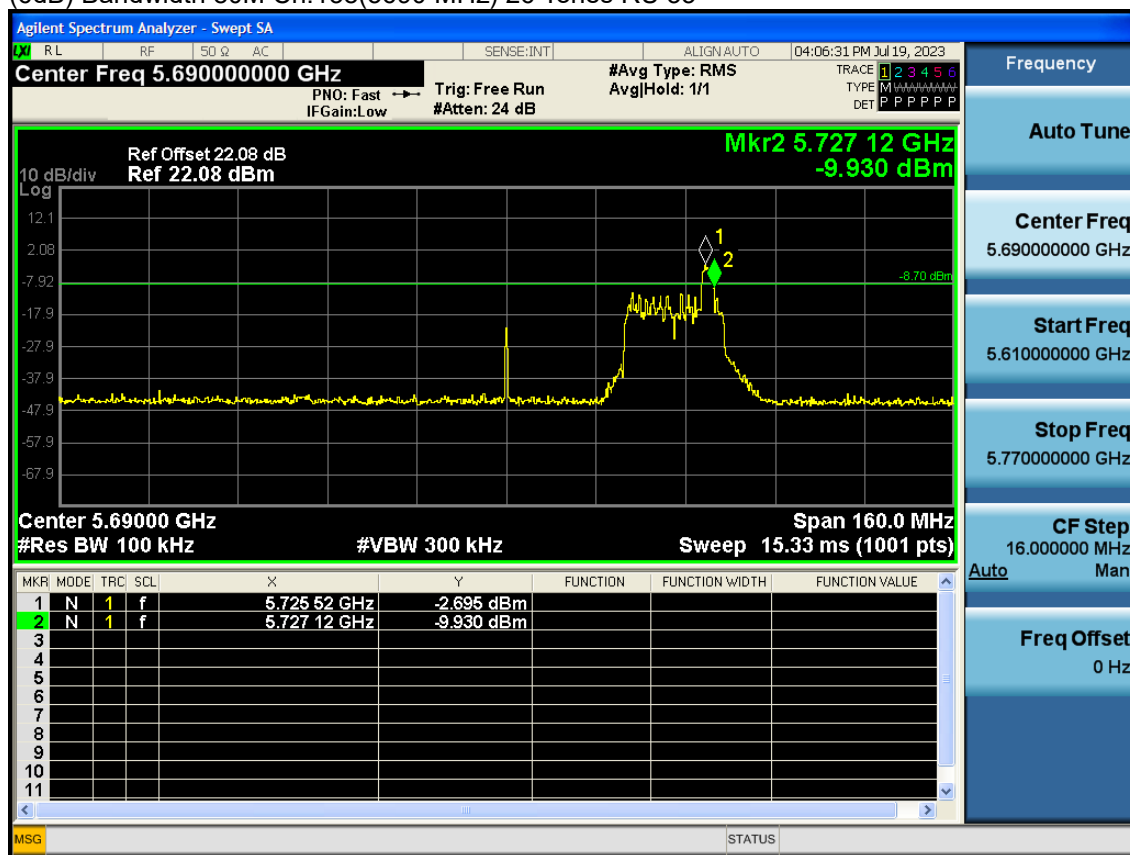


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.04	5725	2.04

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6dB) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



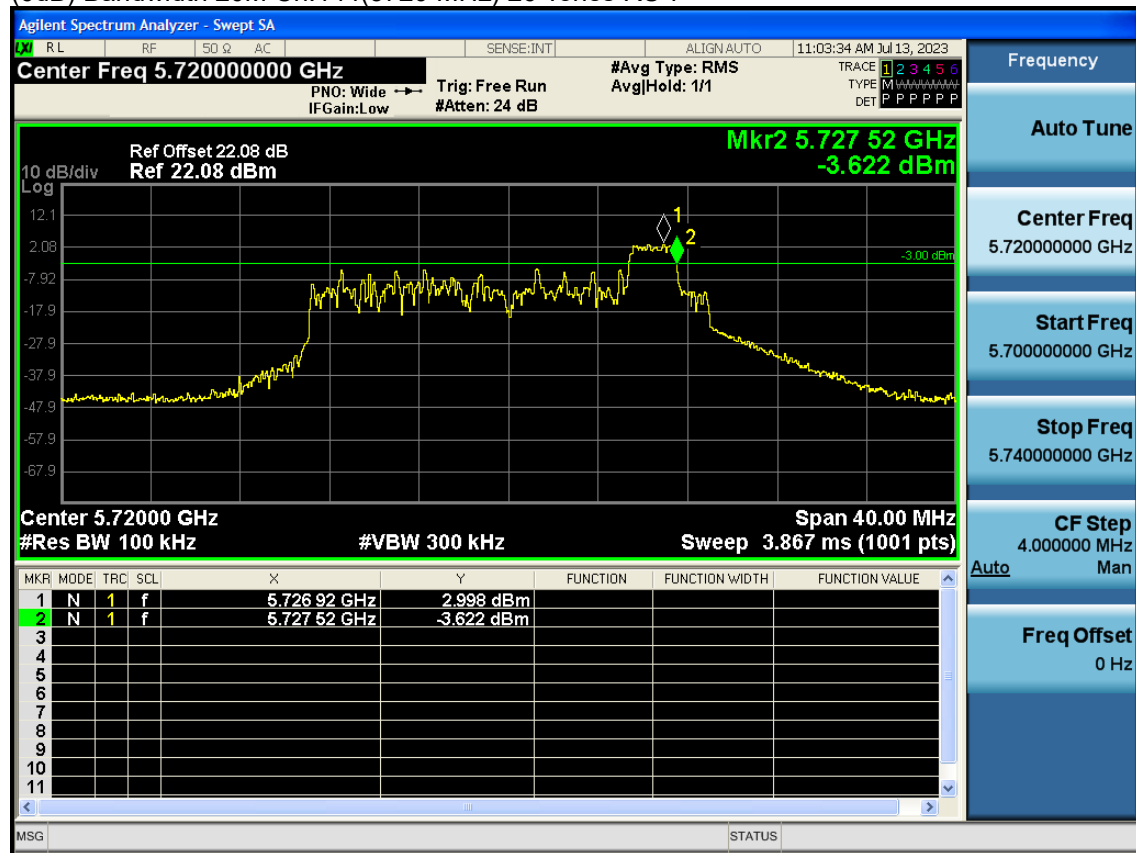
Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.12	5725	2.12

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

5.2.3 MIMO Ant. 2

(6dB) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 7

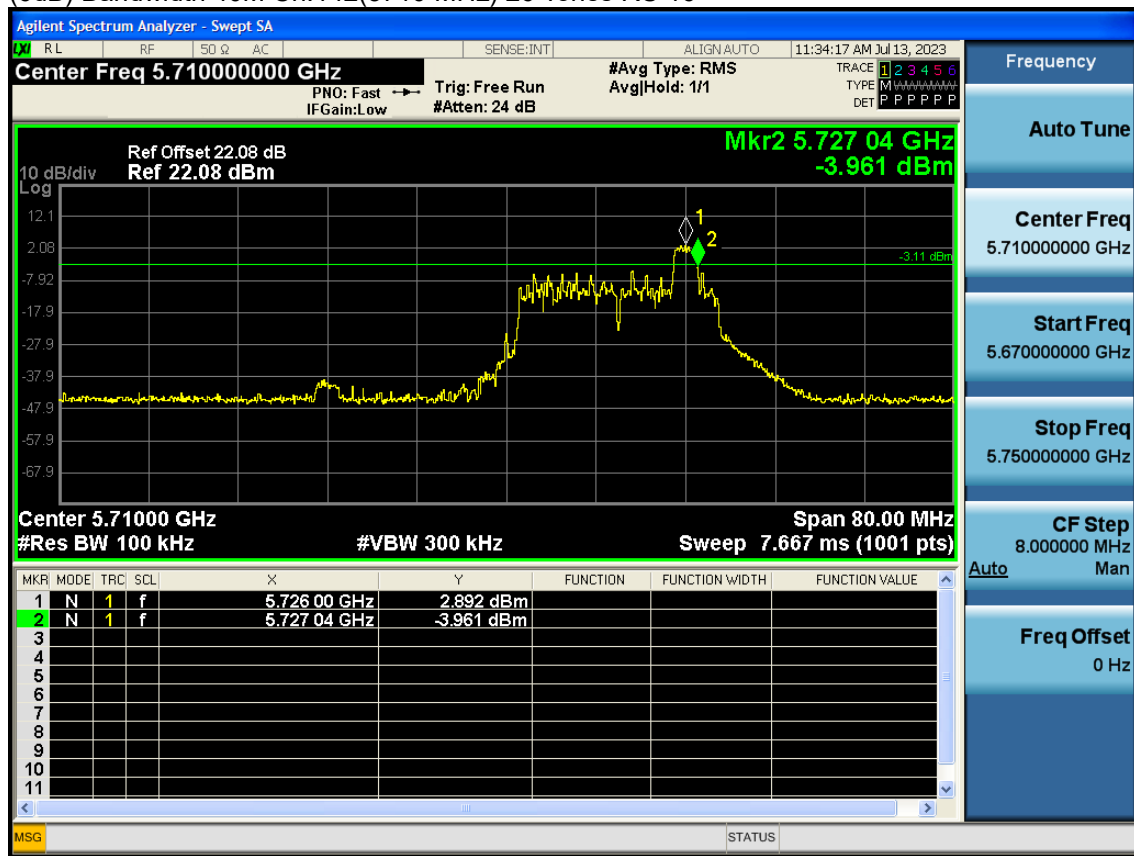


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725	2.52

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6dB) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

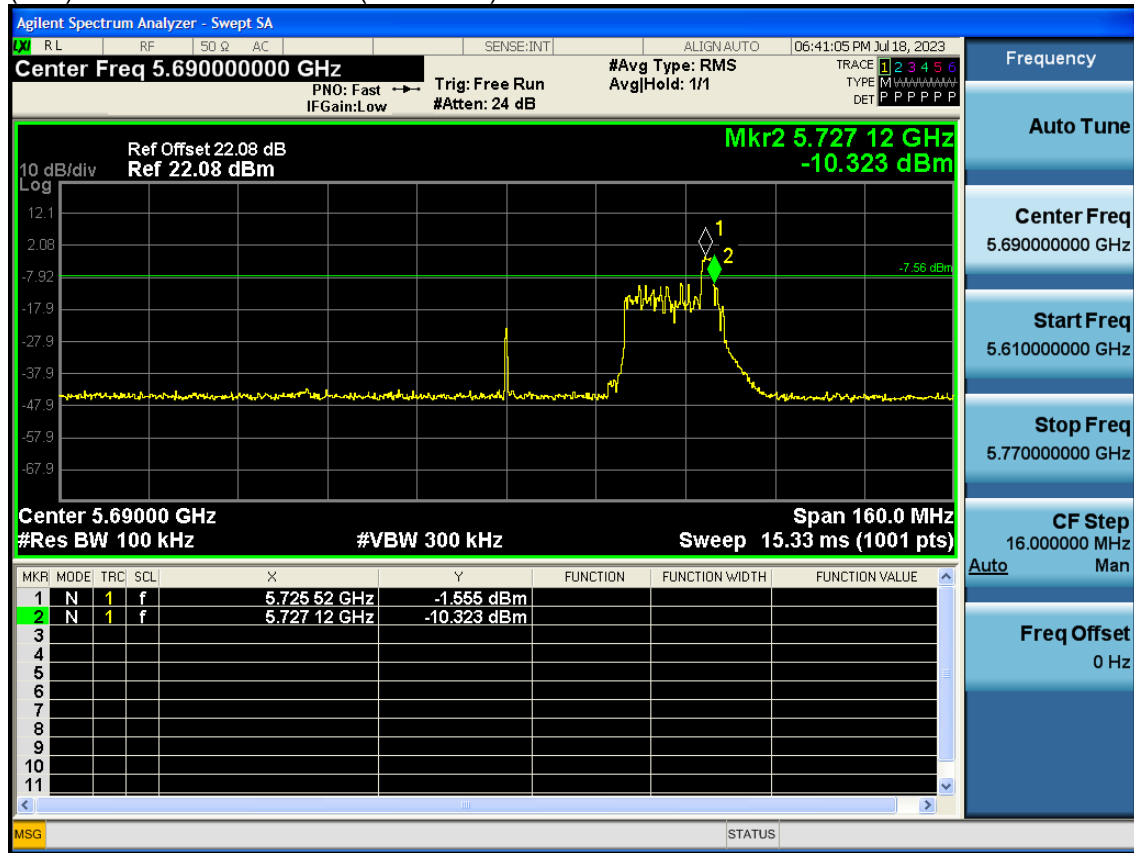


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.04	5725	2.04

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6dB) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.12	5725	2.12

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

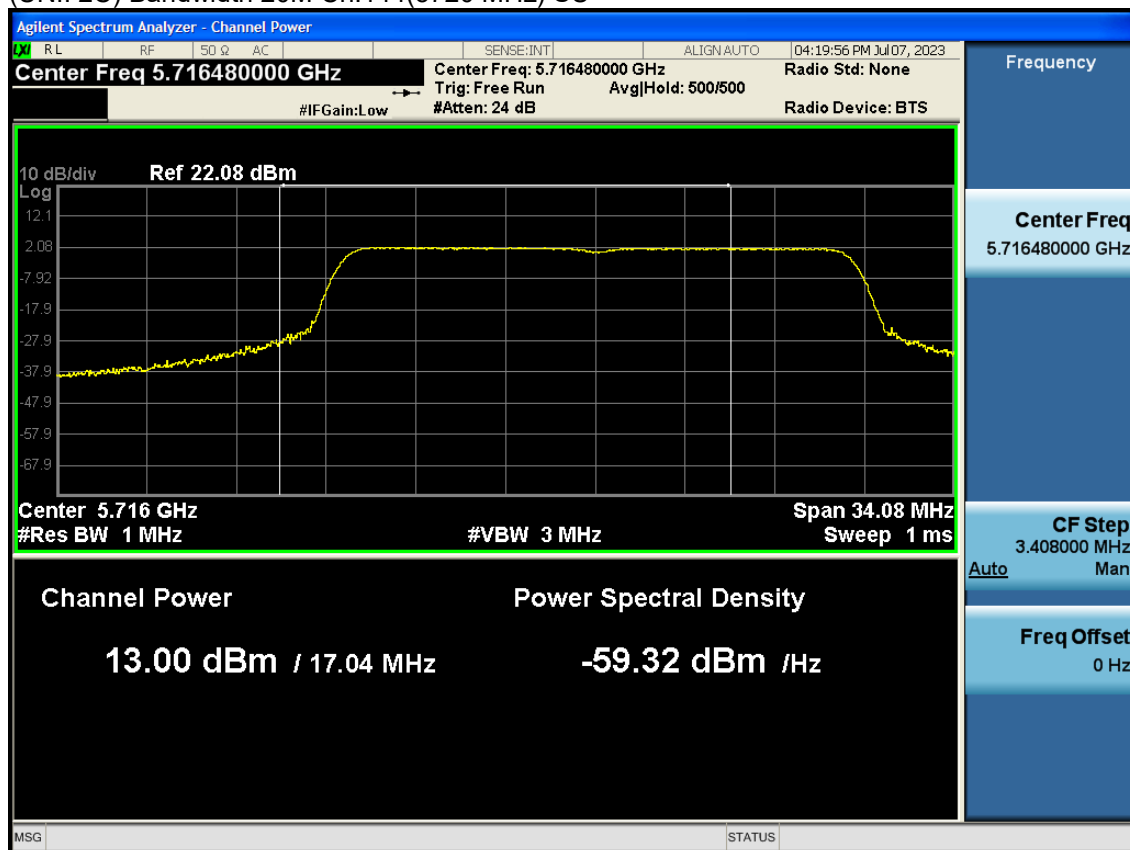
5.3 Output Power

Note:

1. In order to simplify the report, attached plots were only channel of highest Power.

5.3.1 SISO Ant. 2

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) SU

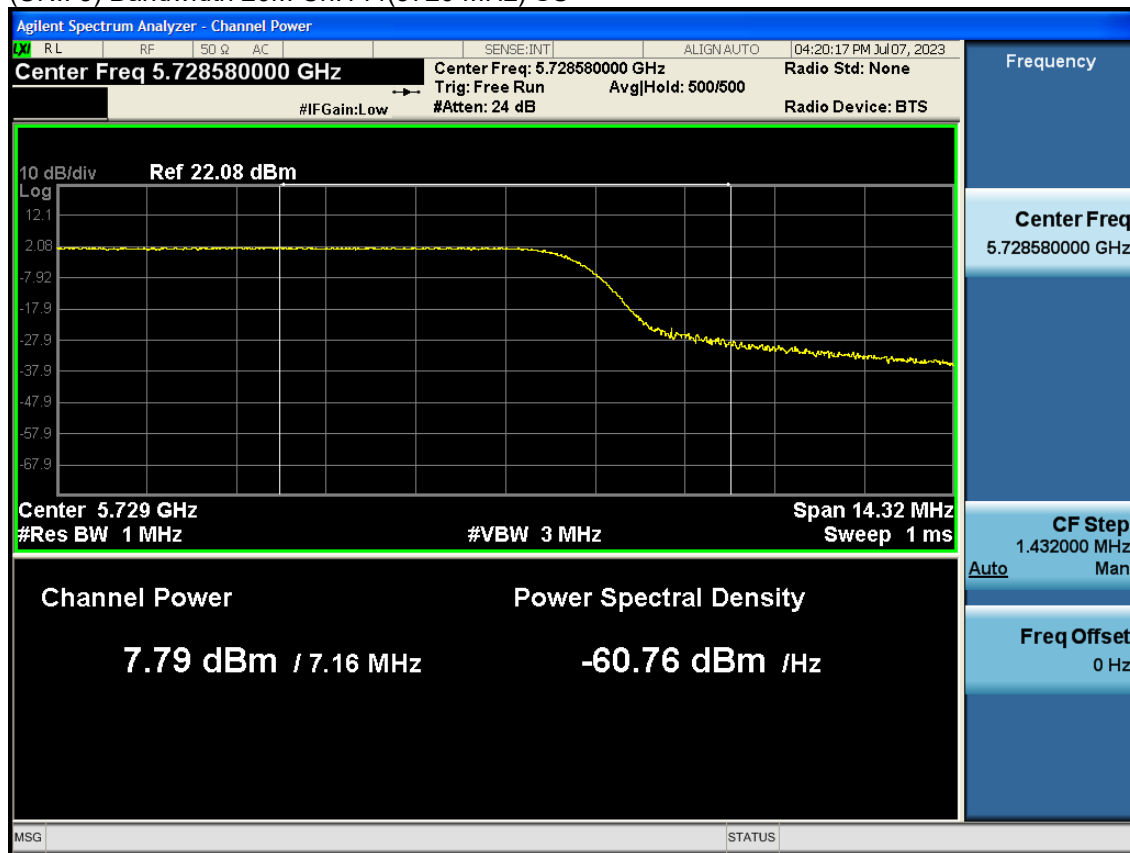


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
13.00	0.412	13.41

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) SU

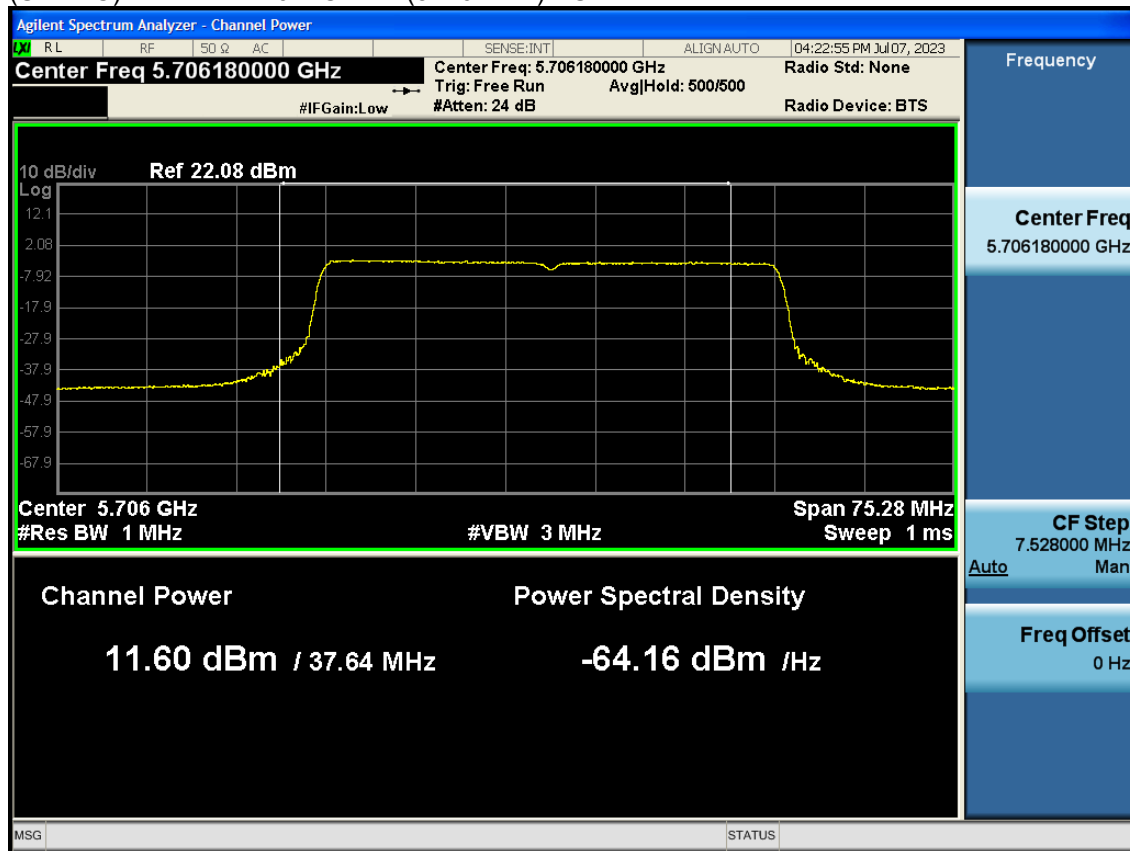


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
7.79	0.412	8.20

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) SU

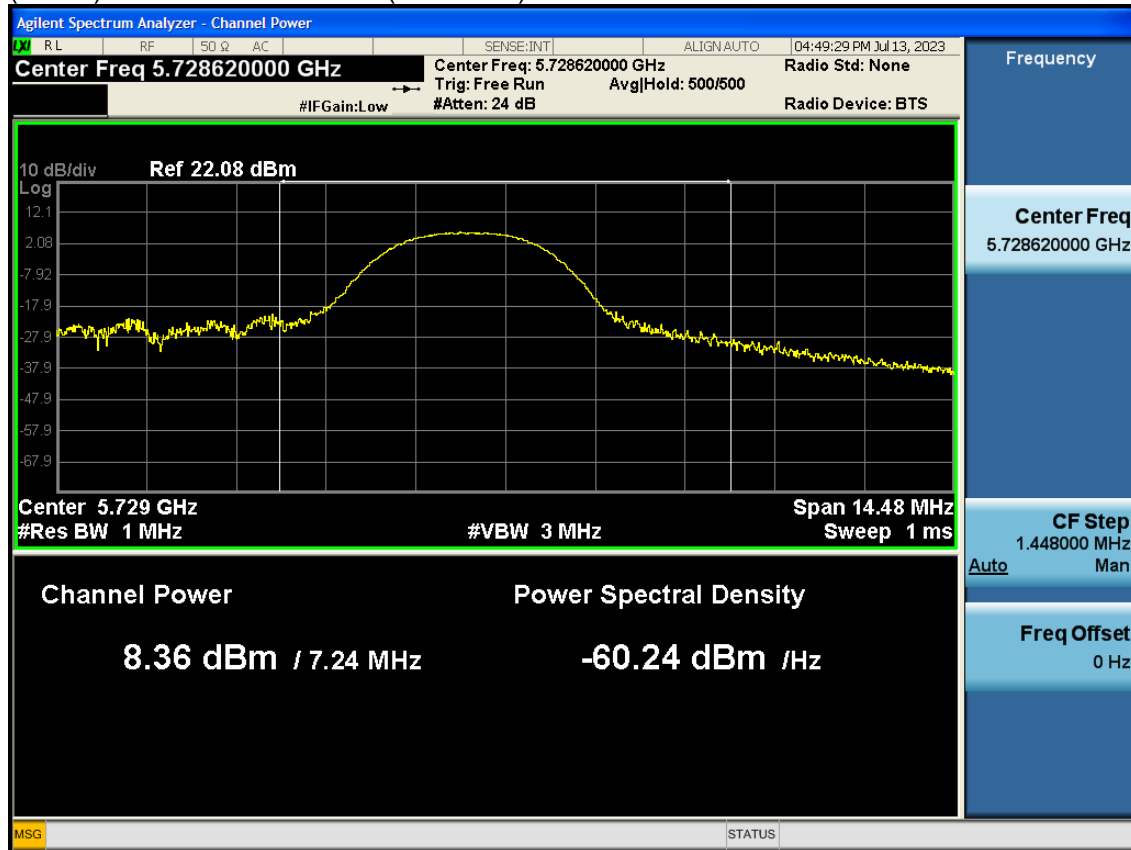


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.60	0.753	12.35

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 17

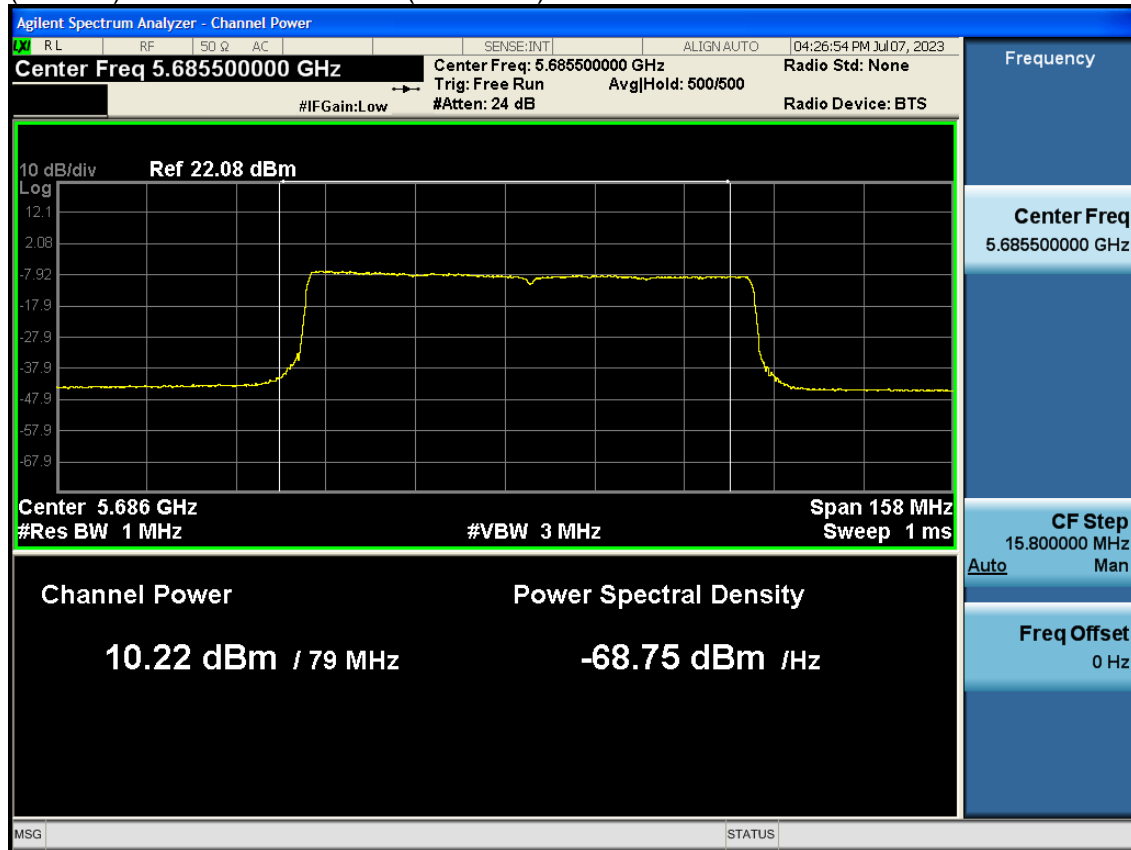


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.36	0.100	8.46

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) SU

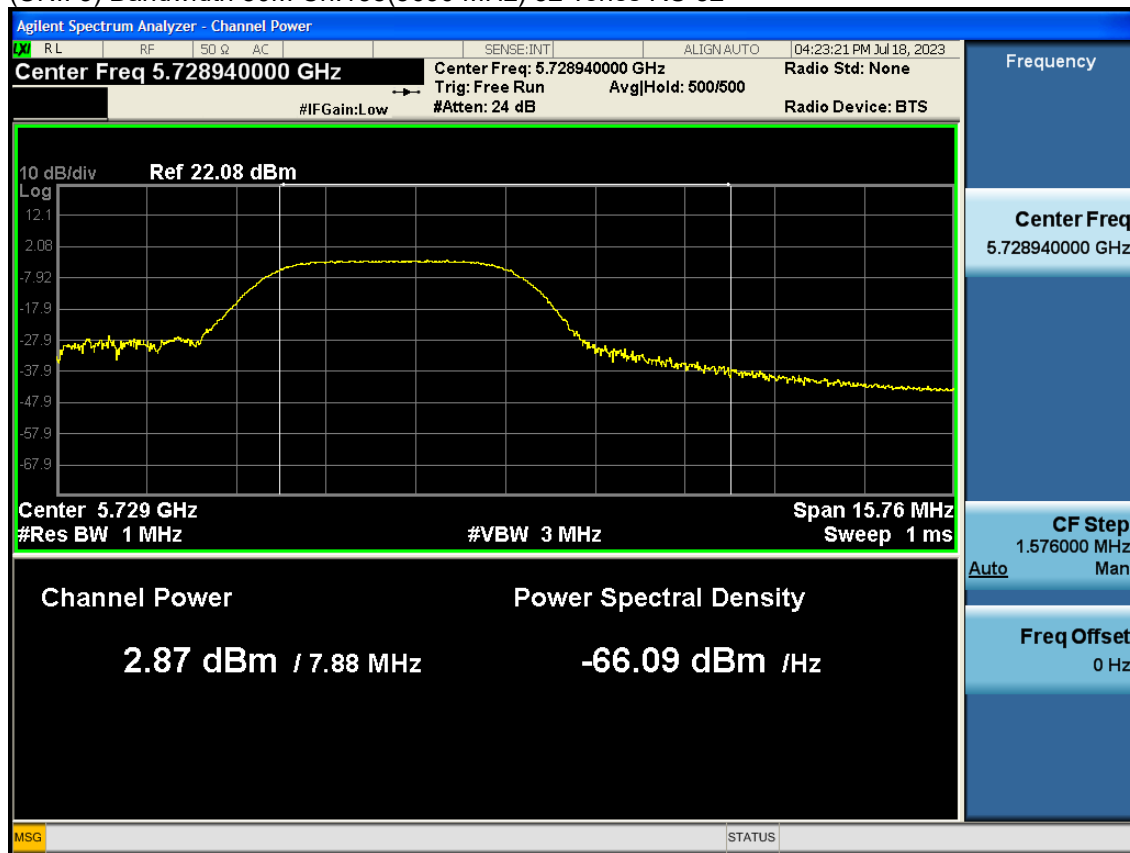


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.22	1.330	11.55

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 52



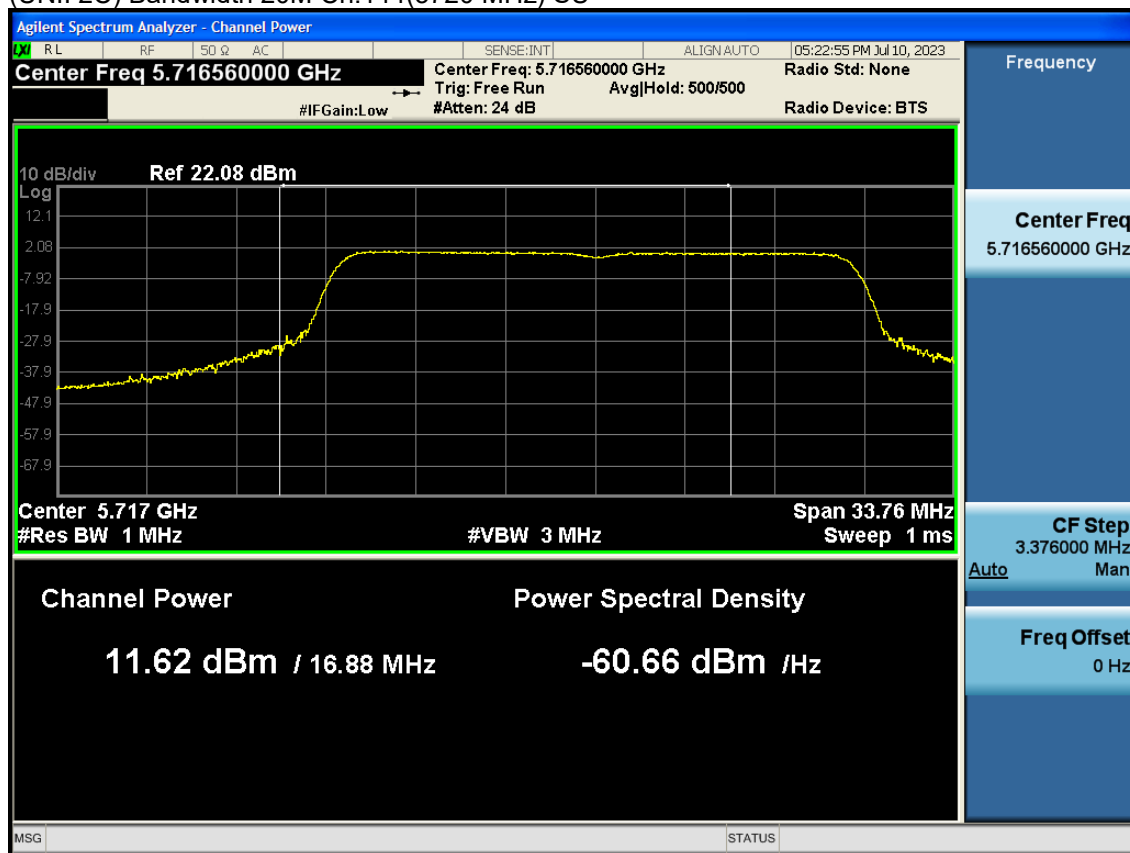
Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
2.87	0.092	2.96

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

5.3.2 MIMO Ant. 1

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) SU

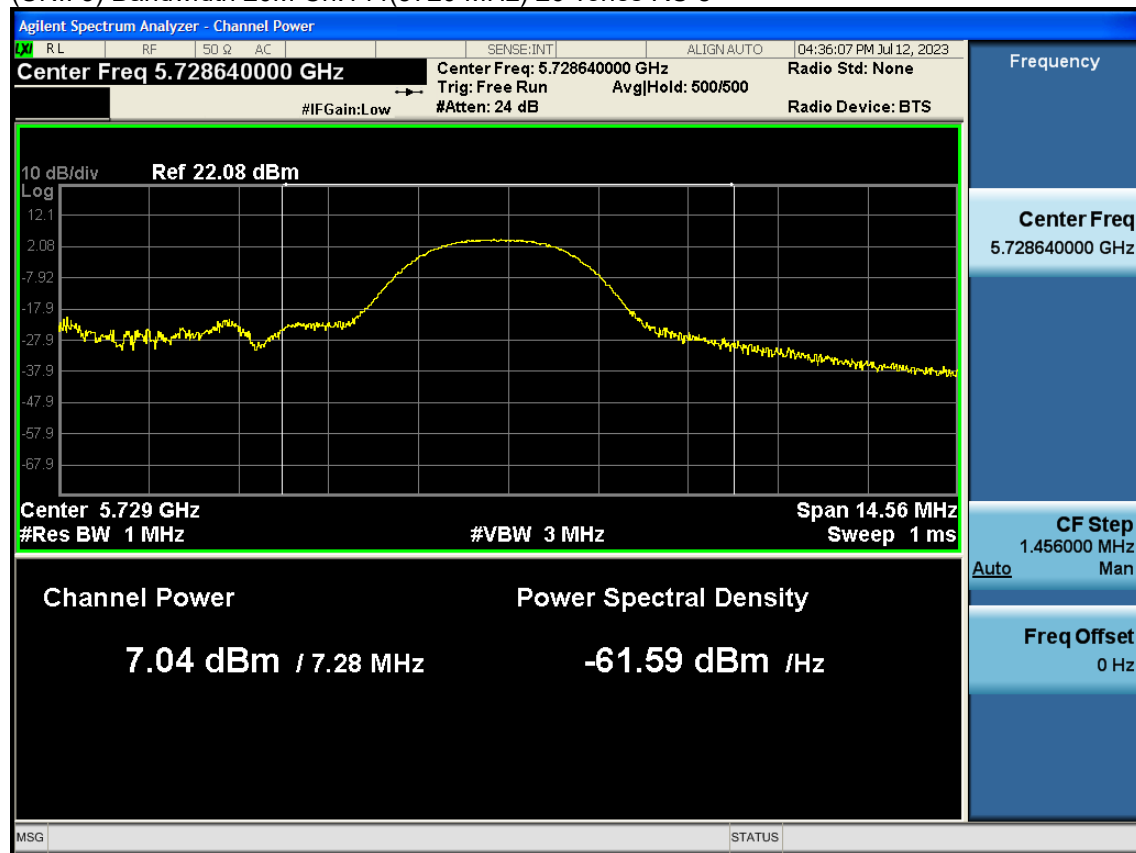


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.62	0.741	12.36

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 8

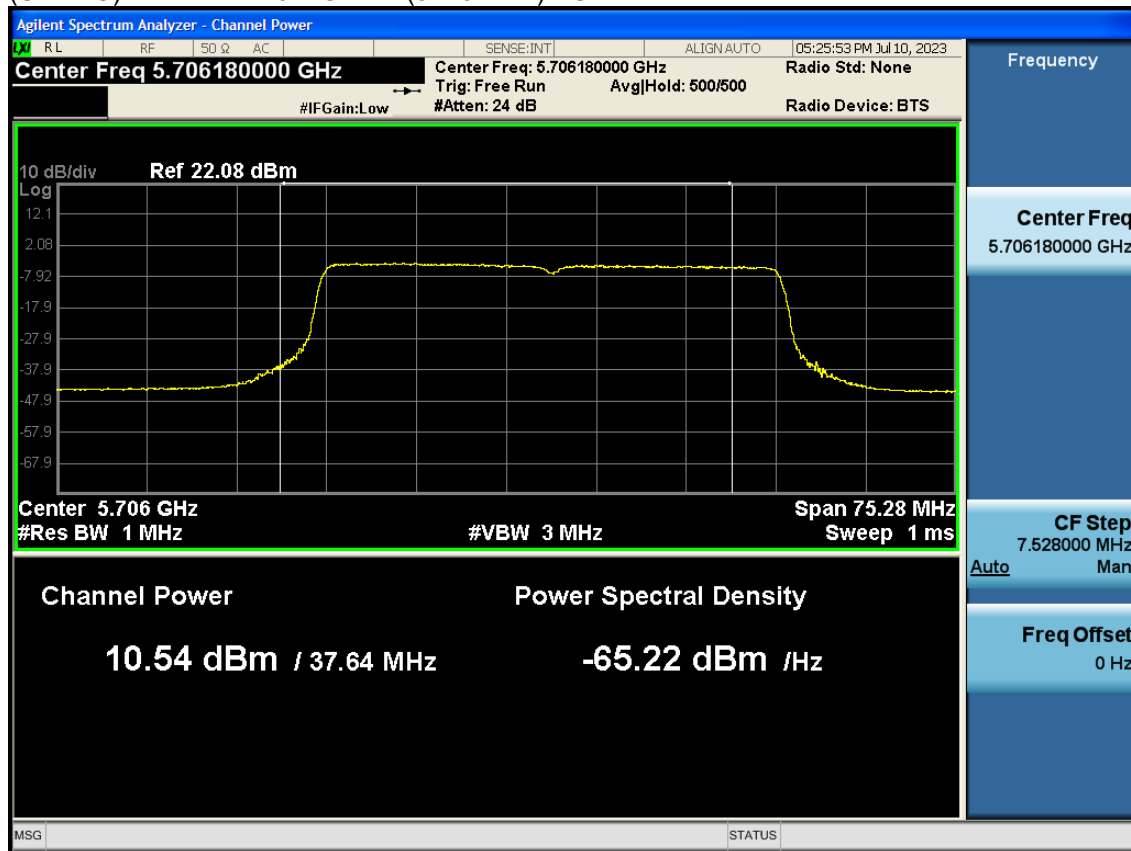


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
7.04	0.092	7.13

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) SU

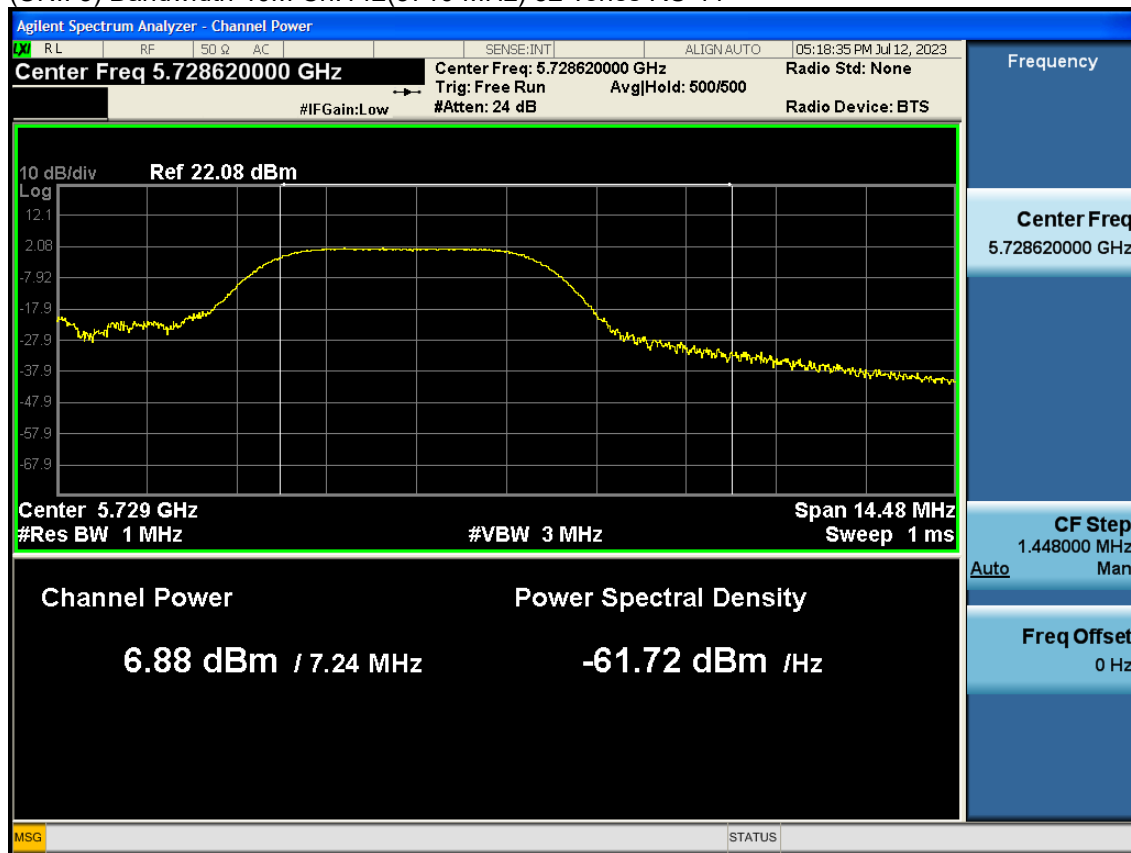


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.54	1.357	11.90

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 52 Tones RU 44

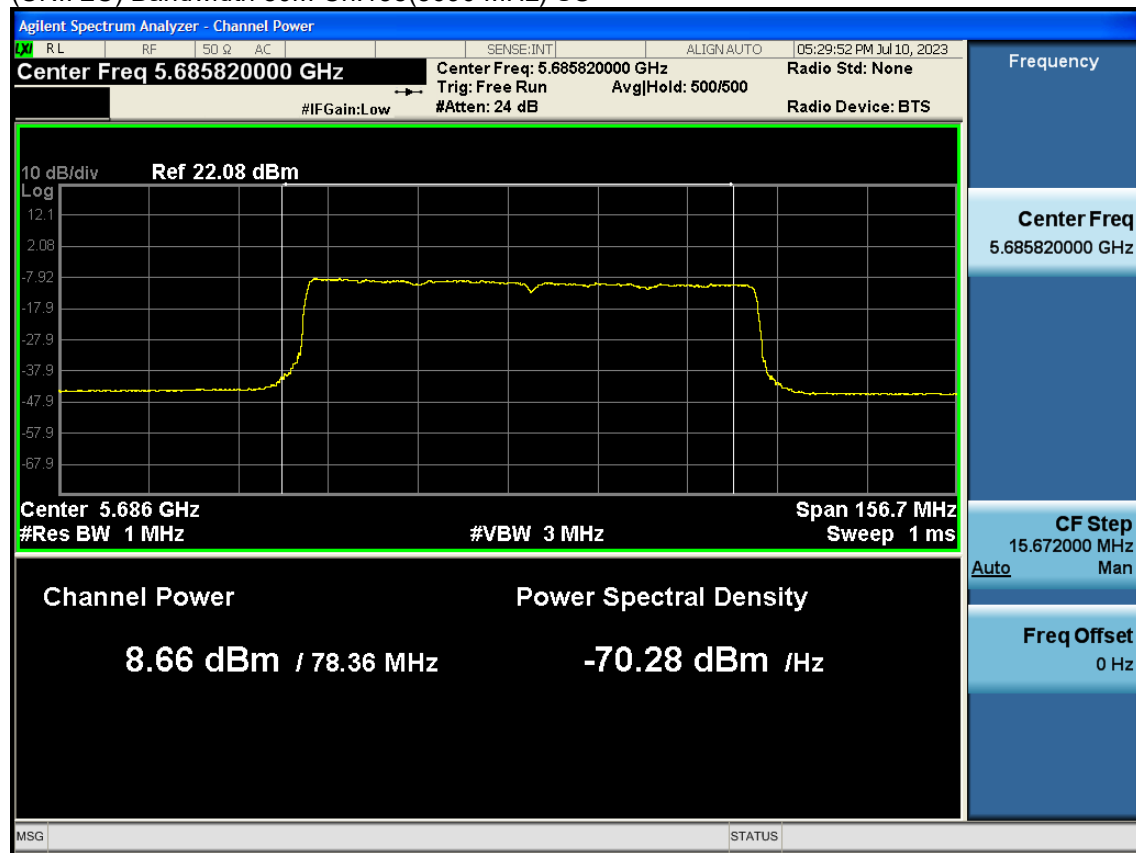


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
6.88	0.194	7.07

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) SU

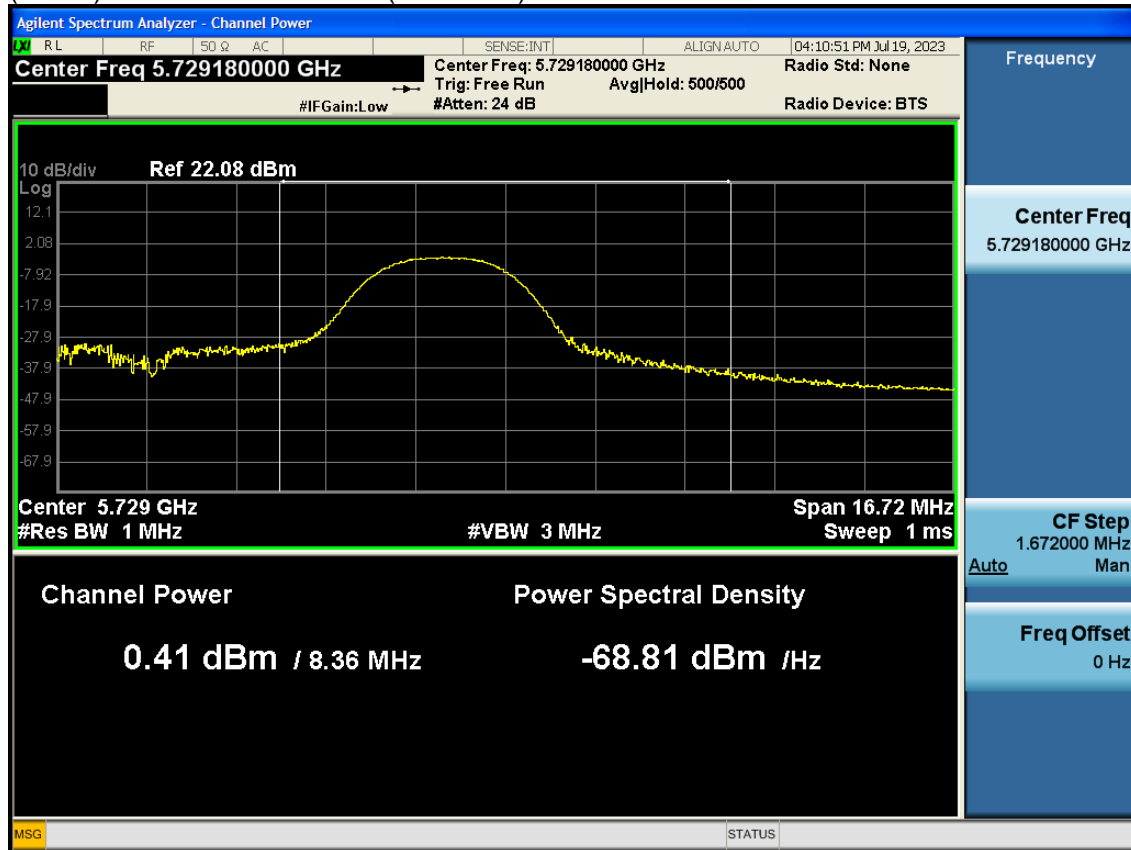


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.66	2.025	10.69

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 36



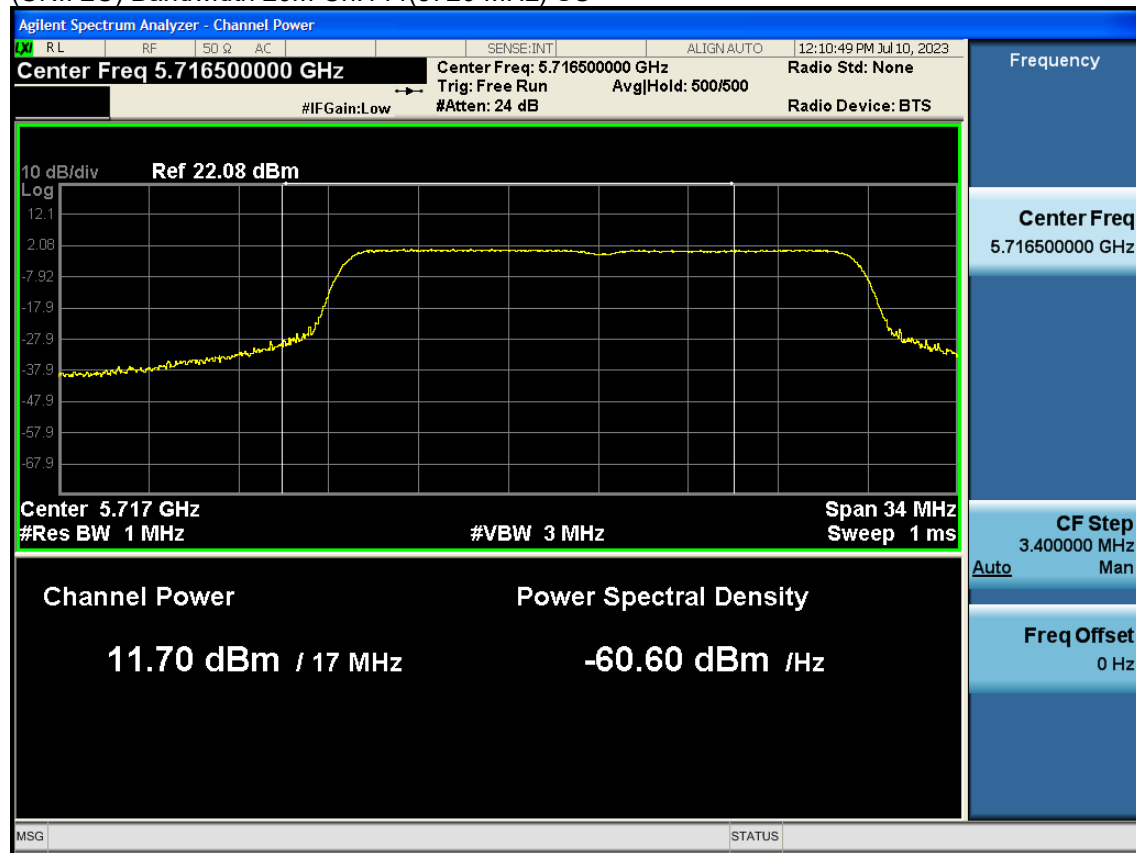
Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
0.41	0.102	0.51

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

5.3.3 MIMO Ant. 2

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) SU



Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.70	0.741	12.44

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) SU

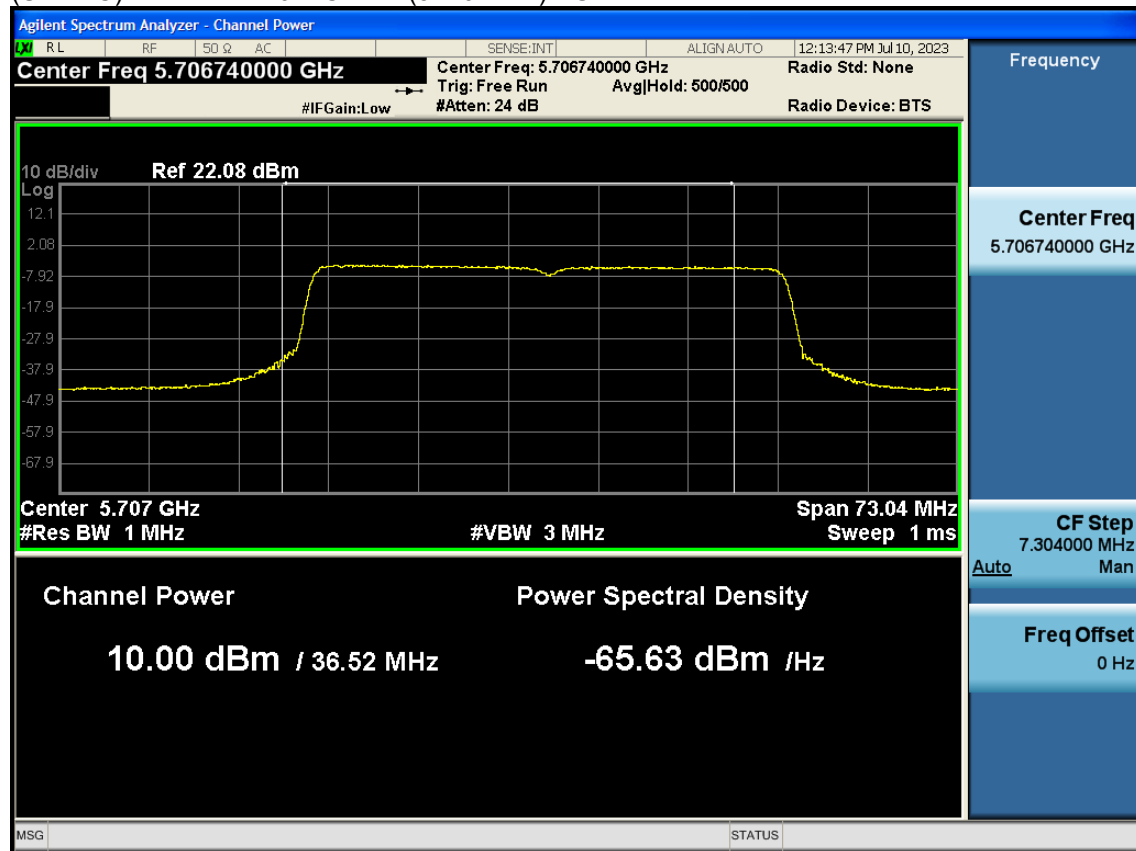


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
6.59	0.741	7.33

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) SU

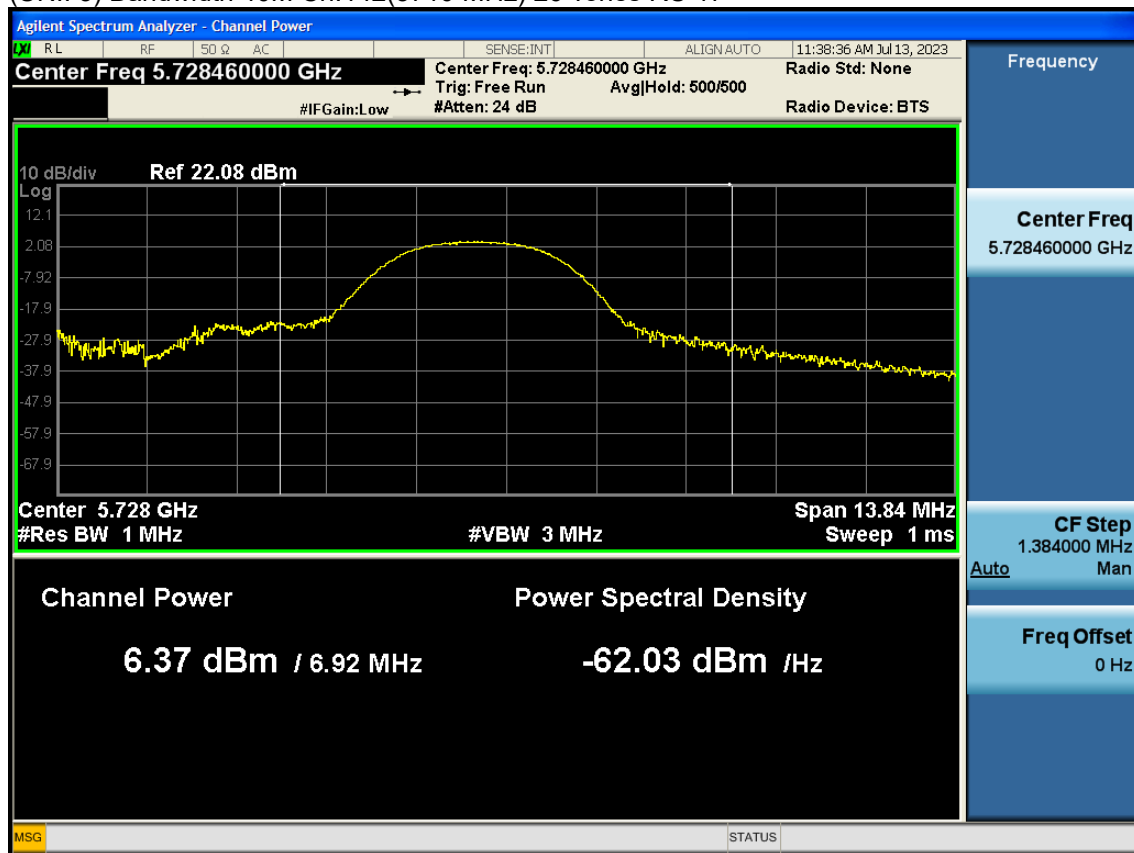


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.00	1.357	11.36

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 17

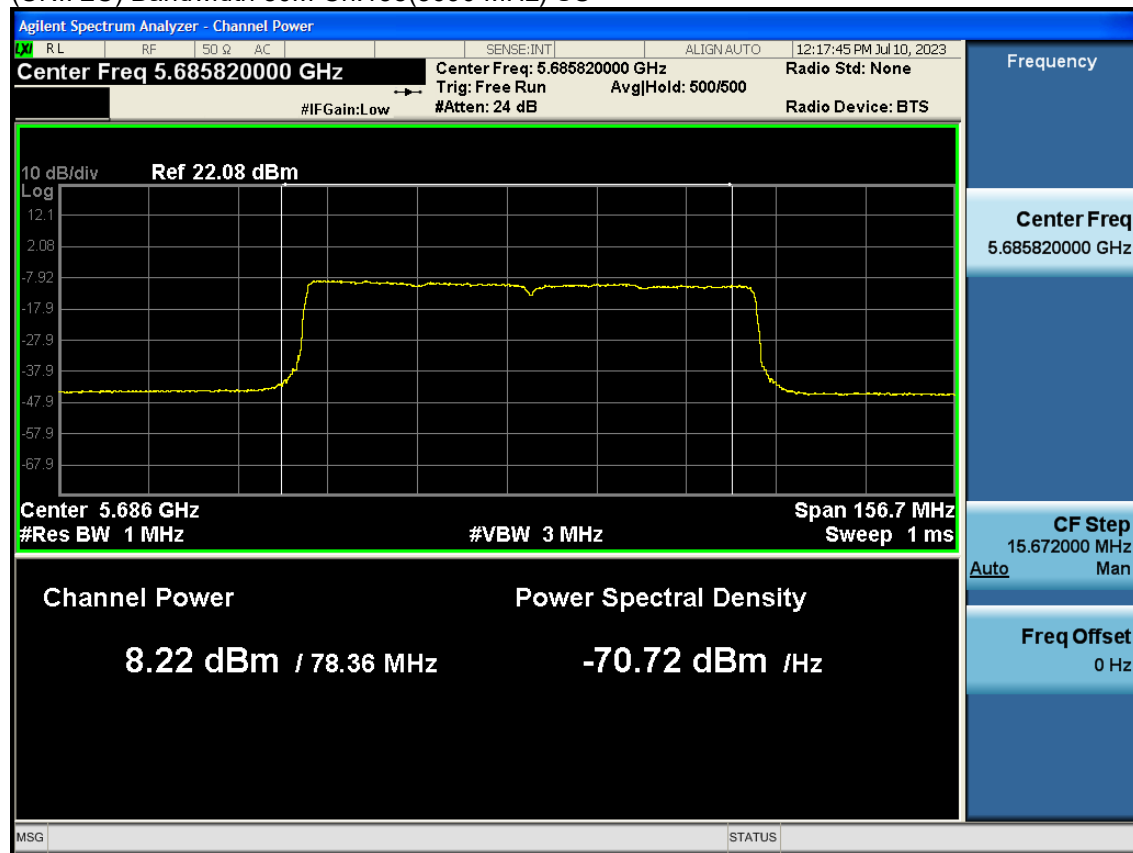


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
6.37	0.098	6.47

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) SU

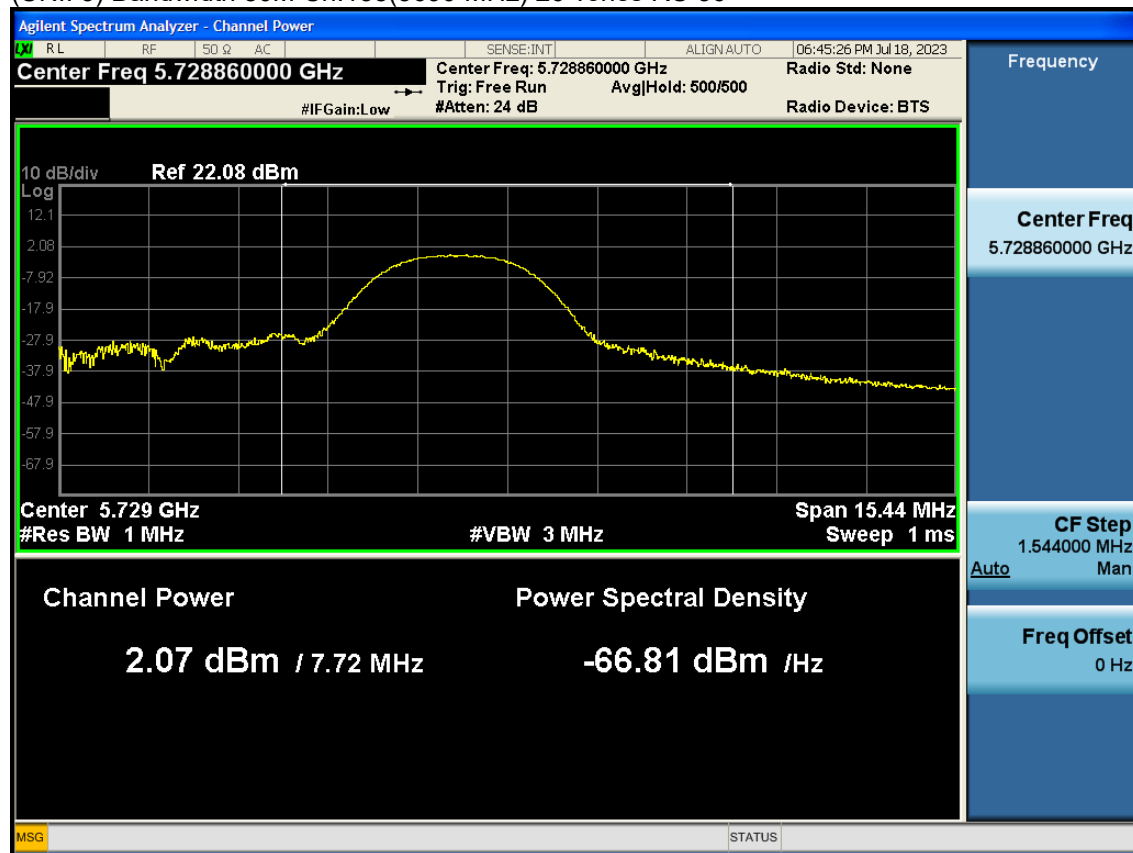


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.22	2.025	10.25

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 36



Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
2.07	0.102	2.17

Note:

Total Power (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

5.4 Power Spectral Density

Note:

1. In order to simplify the report, attached plots were only channel of highest PSD.

5.4.1 SISO Ant. 2

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 0

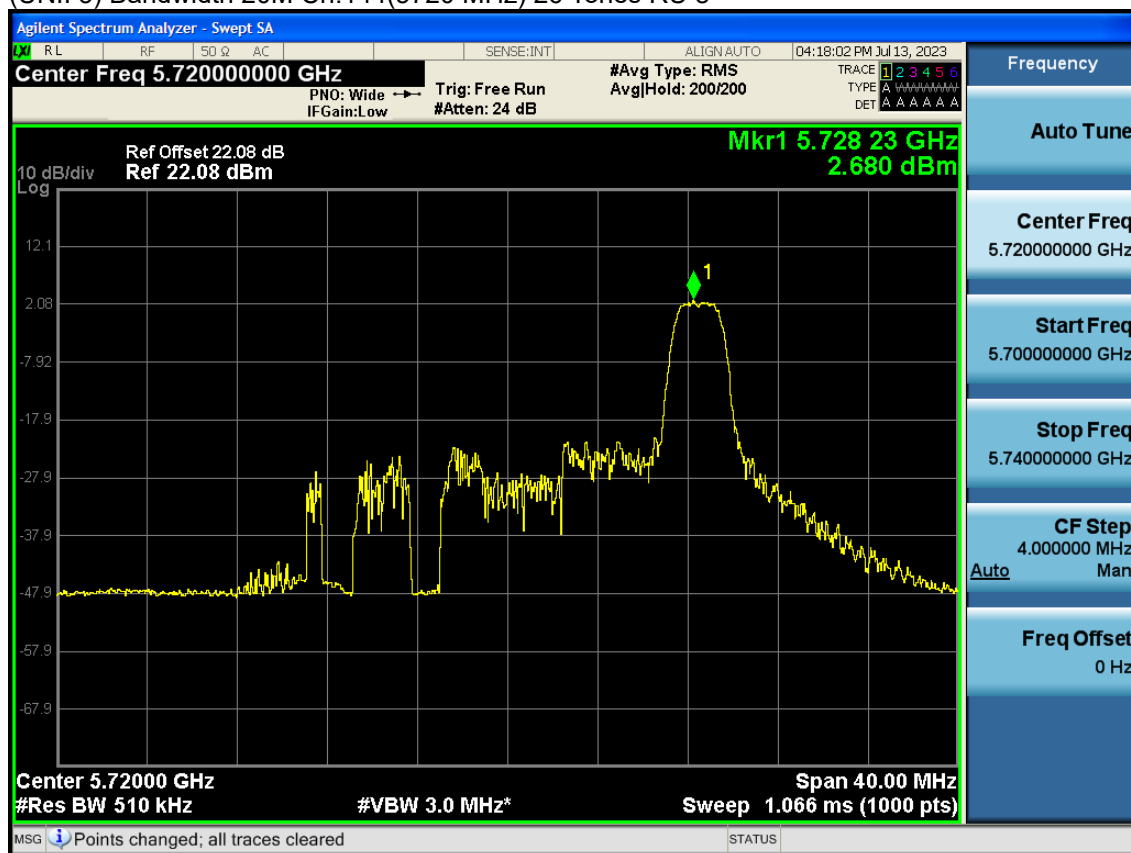


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.984	0.094	6.078

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 8



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
2.680	0.094	2.774

Note:

$$\text{Total PSD (dBm)} = \text{Measured Value (dBm)} + \text{Duty Cycle Factor (dB)}$$

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 9



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.946	0.100	6.046

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

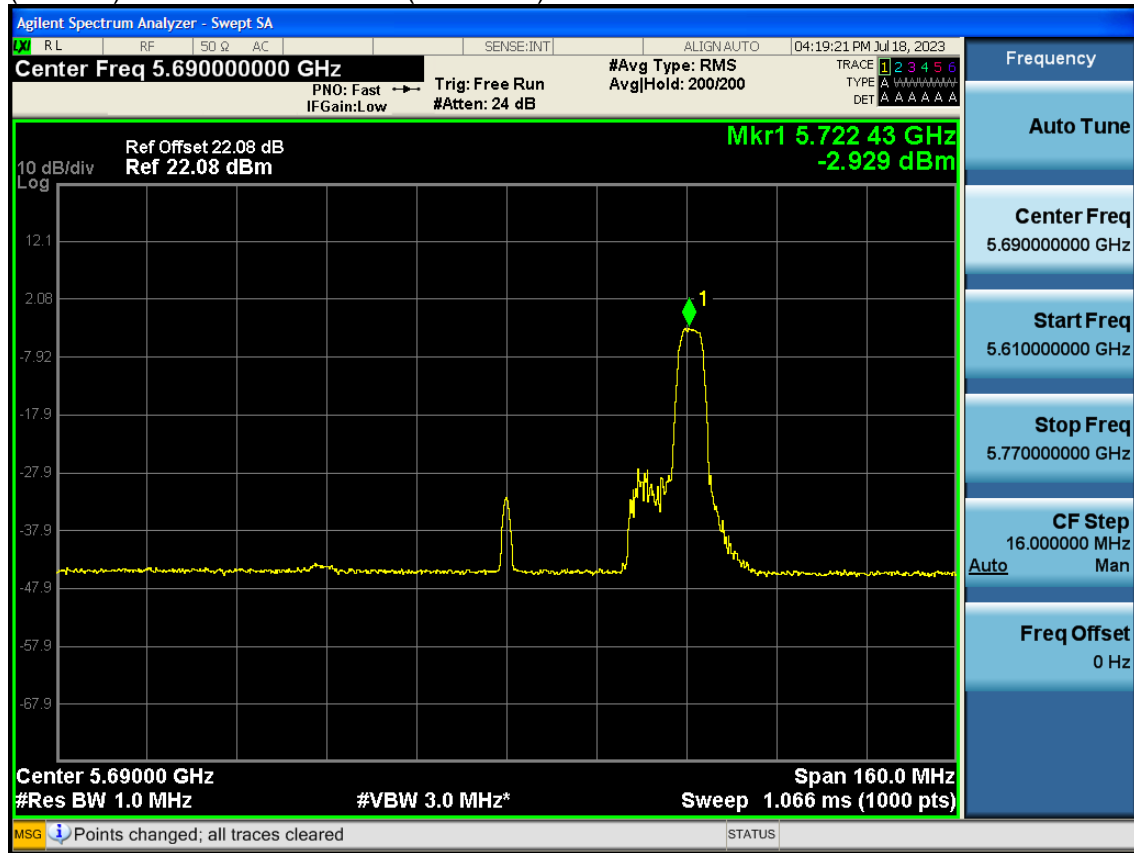


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
2.825	0.100	2.925

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 51

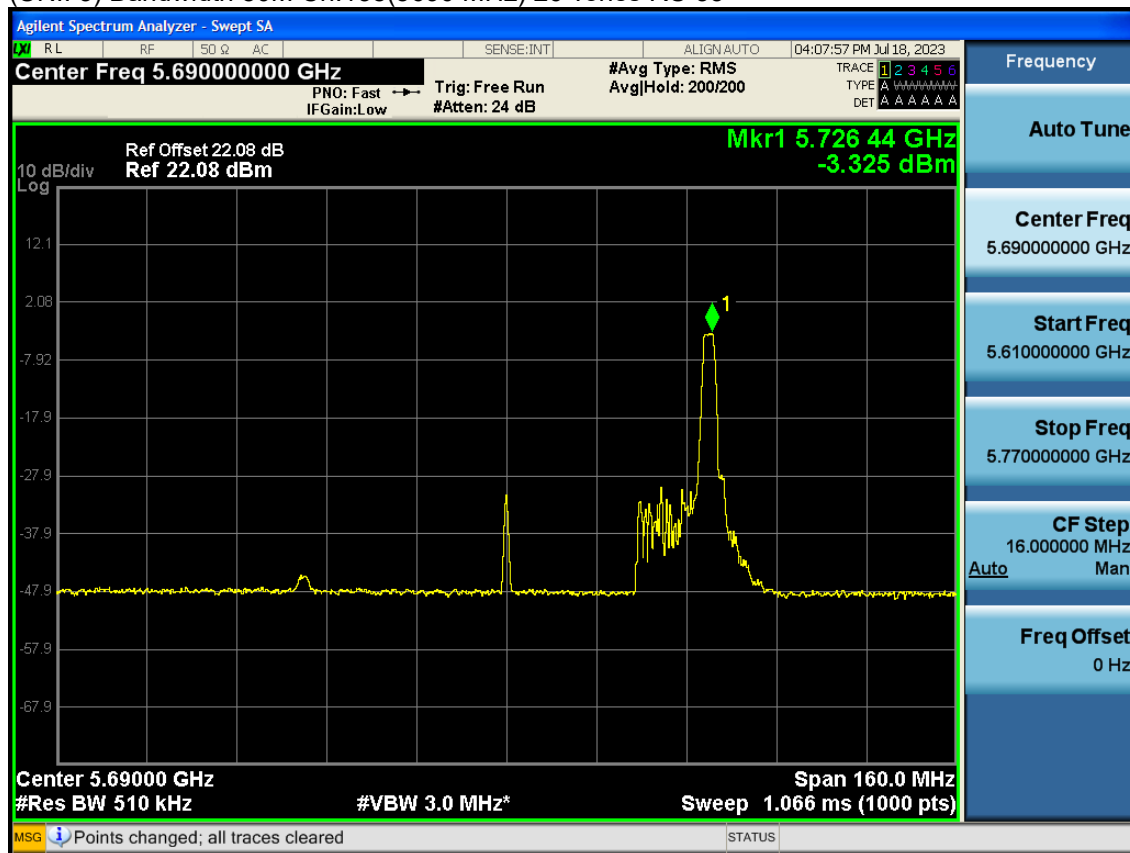


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-2.929	0.092	-2.837

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-3.325	0.088	-3.237

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

5.4.2 MIMO Ant. 1

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 0



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.381	0.092	5.473

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 7



Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 9

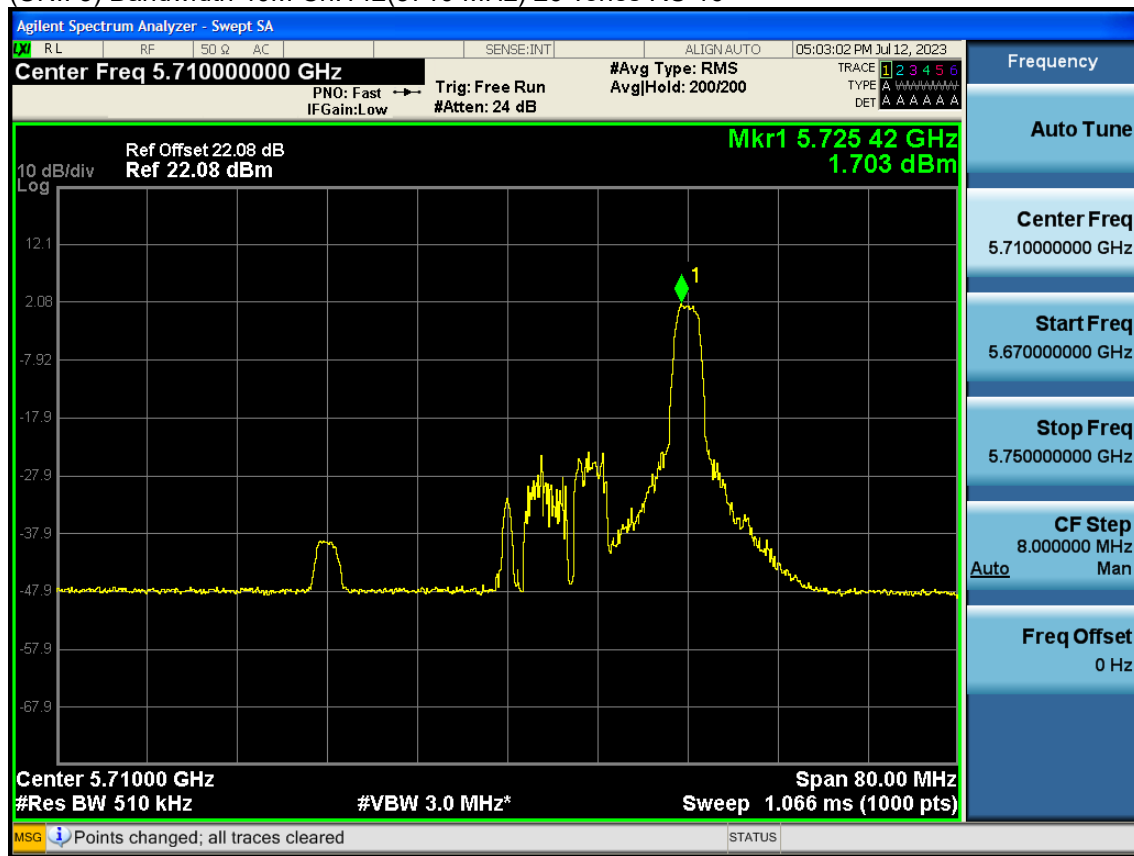


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.653	0.098	4.751

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

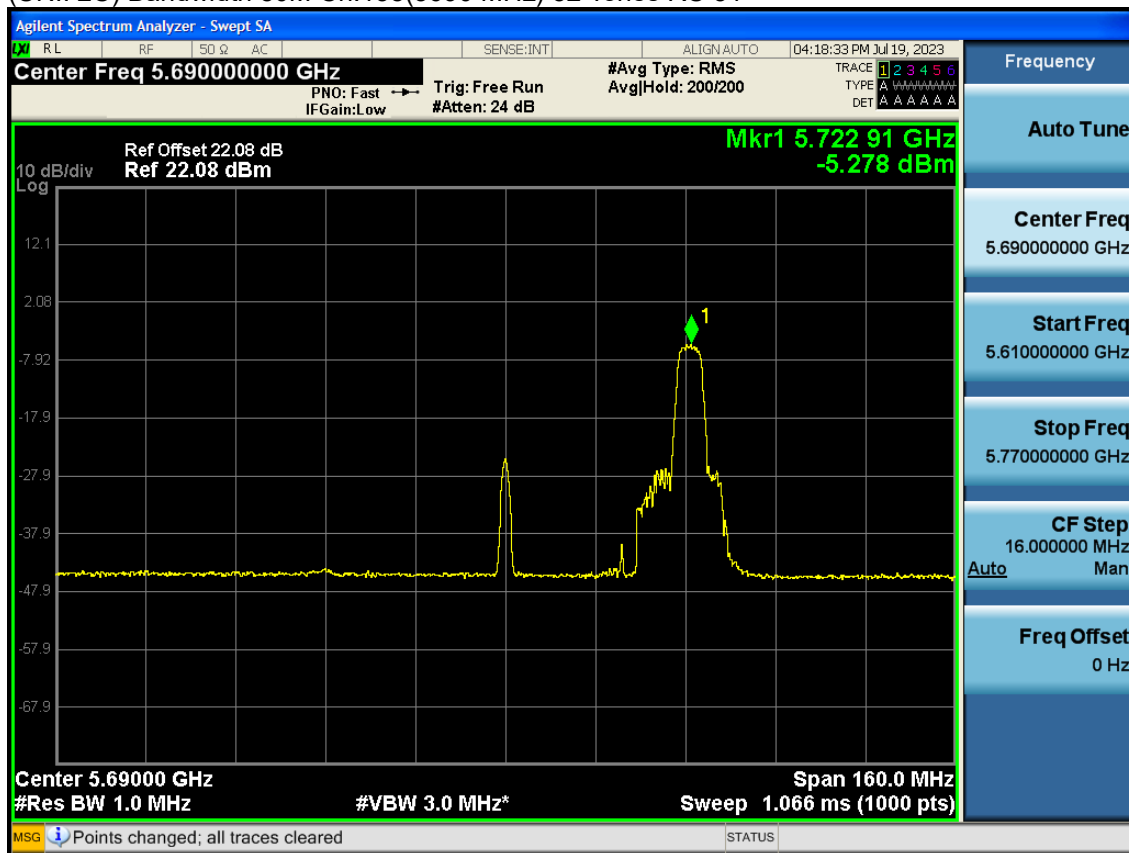


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
1.703	0.098	1.801

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 51

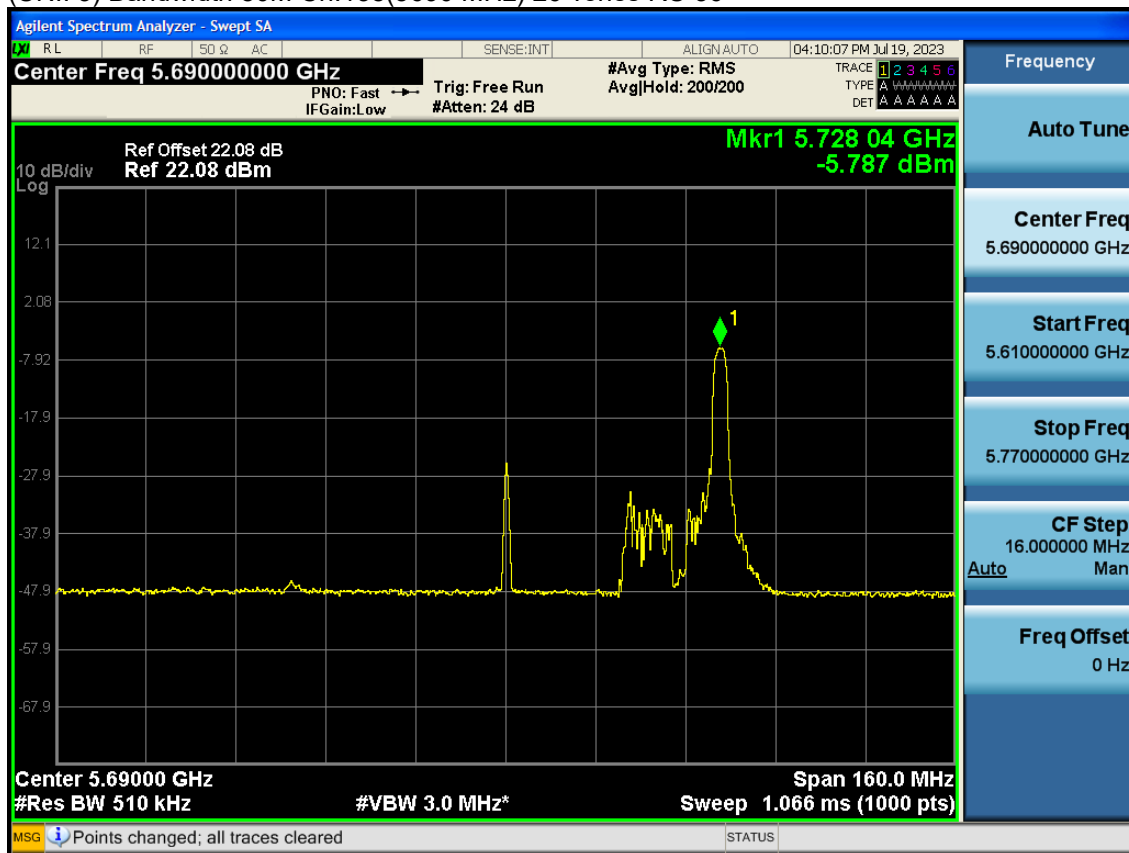


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-5.278	0.190	-5.088

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 36



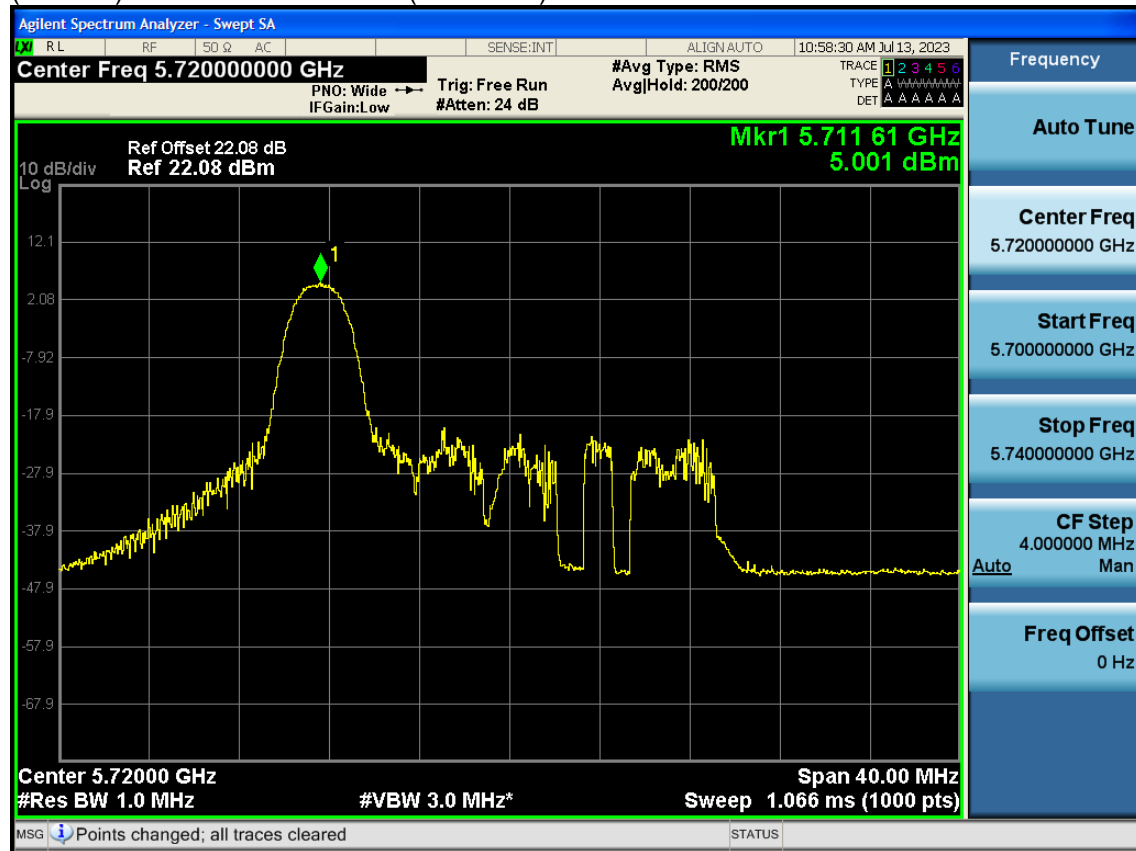
Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-5.787	0.102	-5.685

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

5.4.3 MIMO Ant. 2

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 0

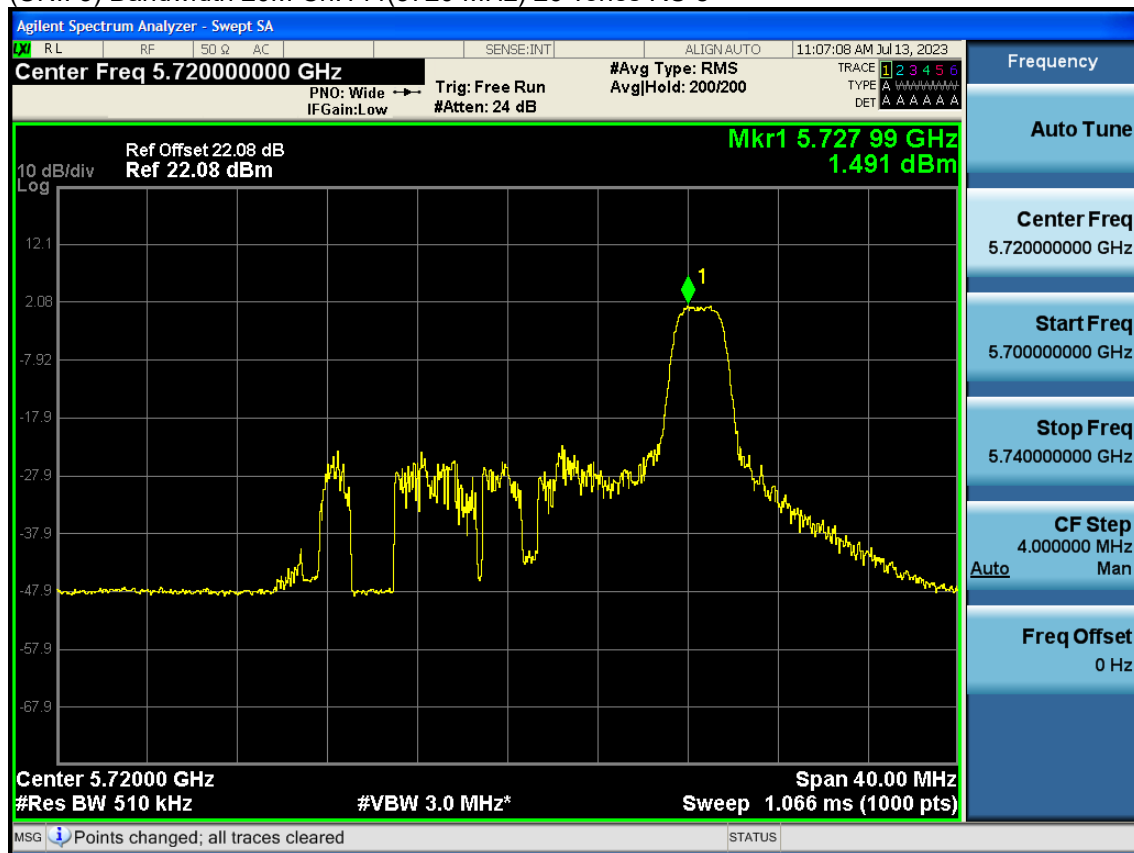


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.001	0.092	5.093

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

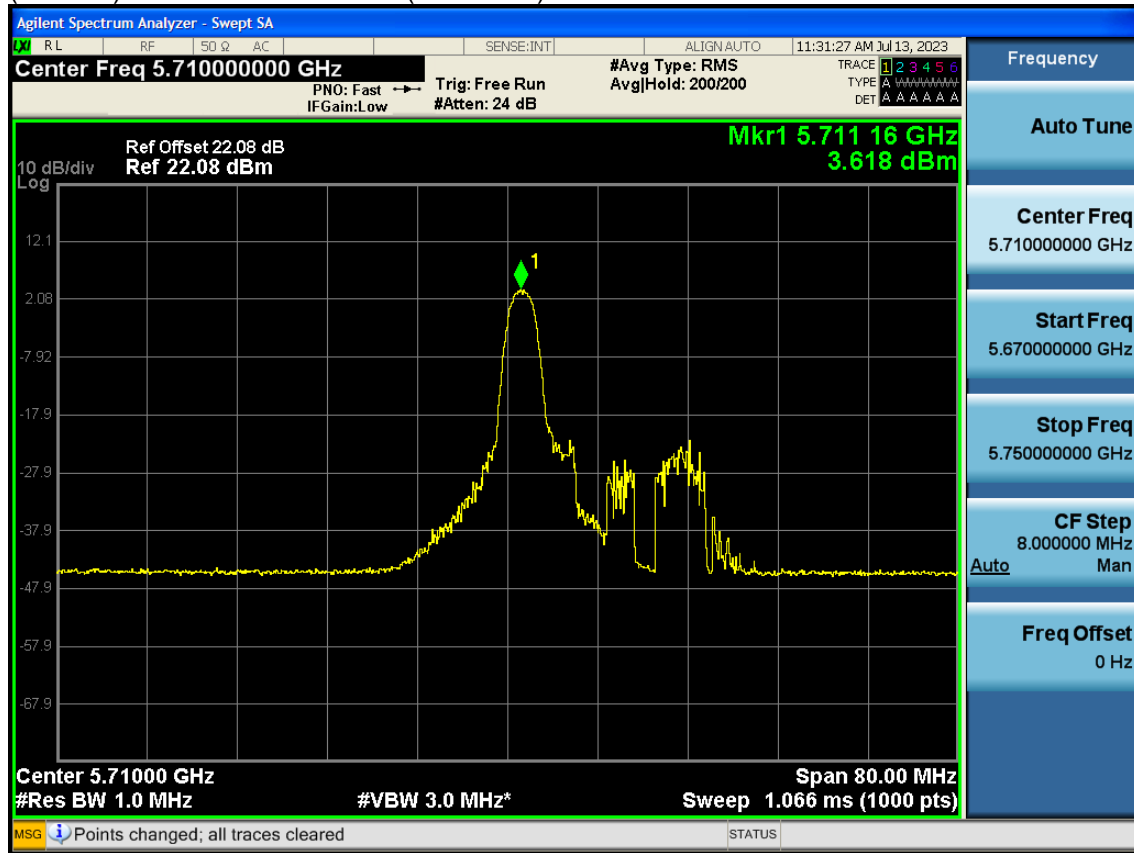
(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 8



Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 9

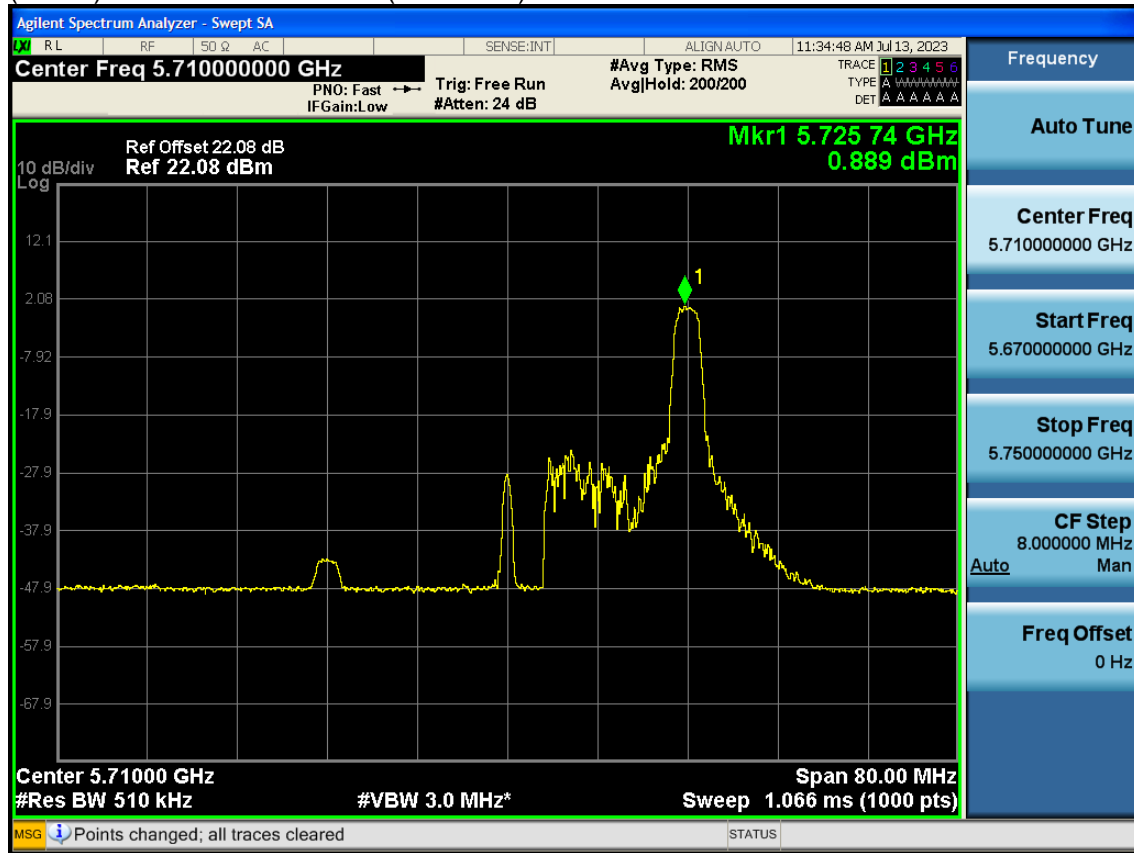


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
3.618	0.098	3.716

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

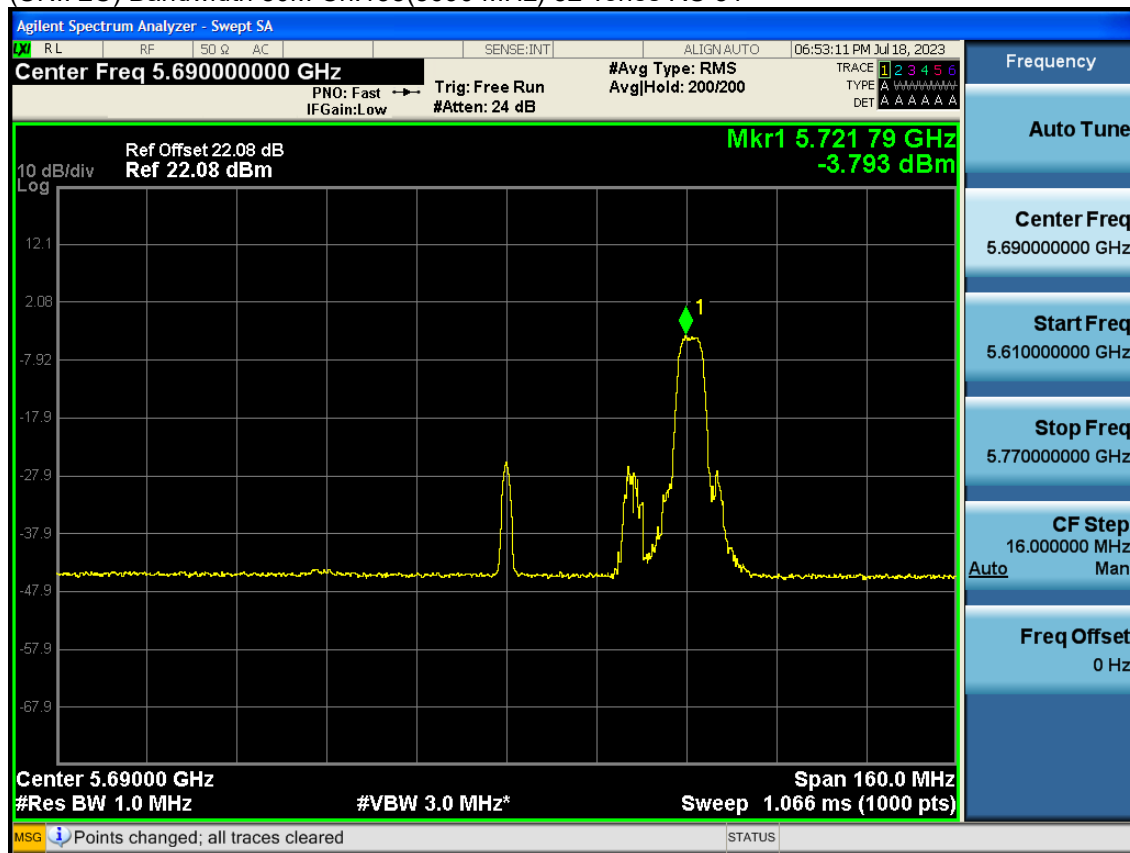


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
0.889	0.098	0.987

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 51

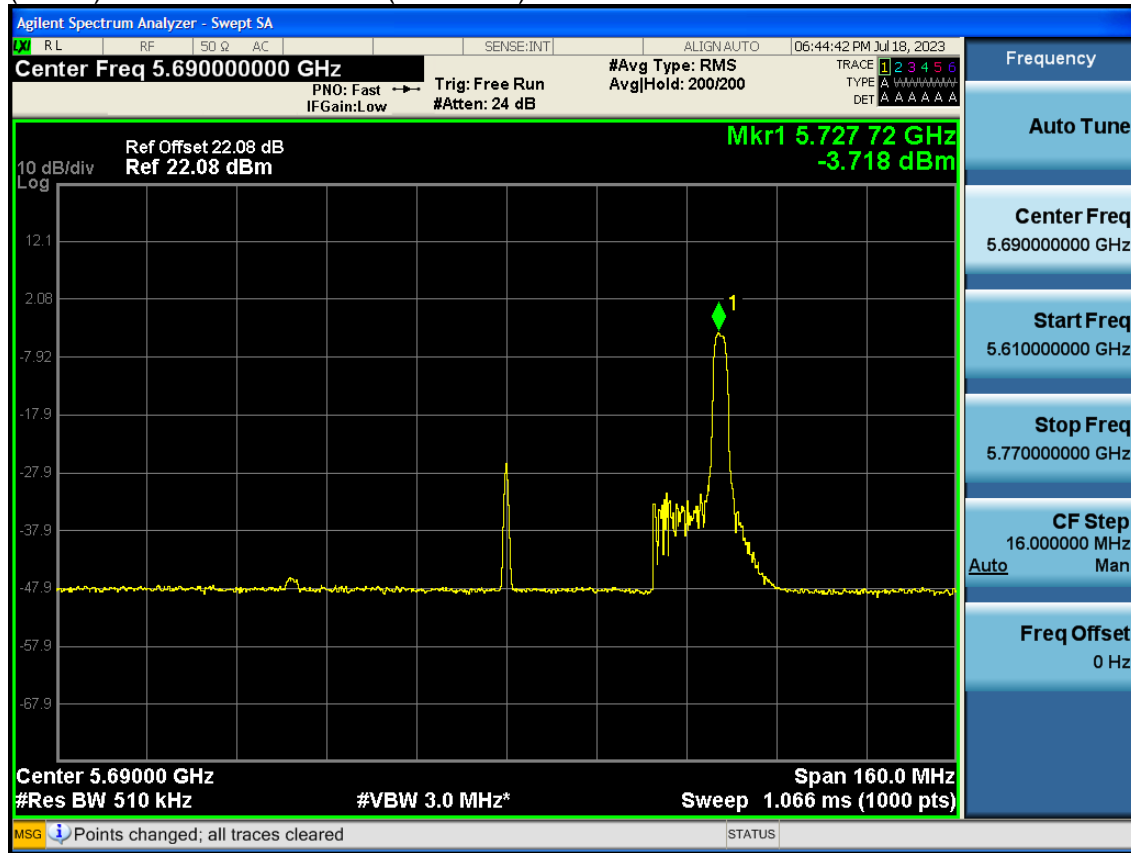


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-3.793	0.190	-3.603

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 36



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-3.718	0.102	-3.616

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)