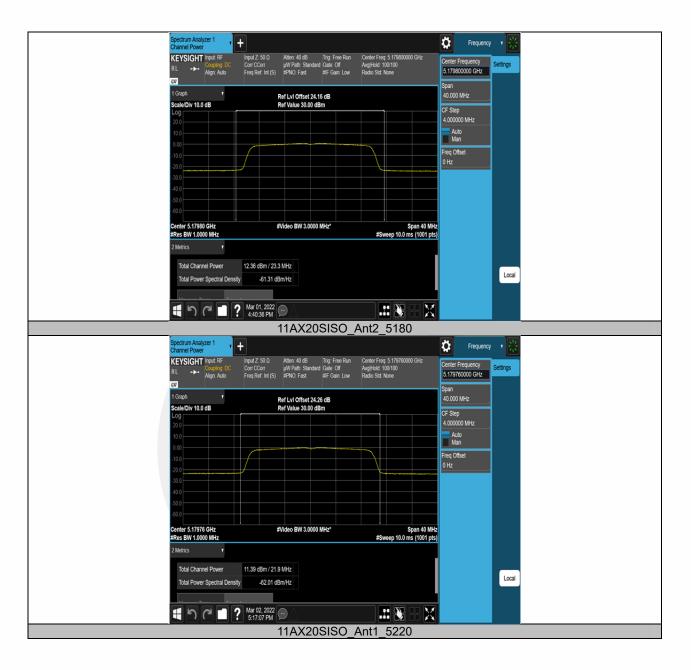


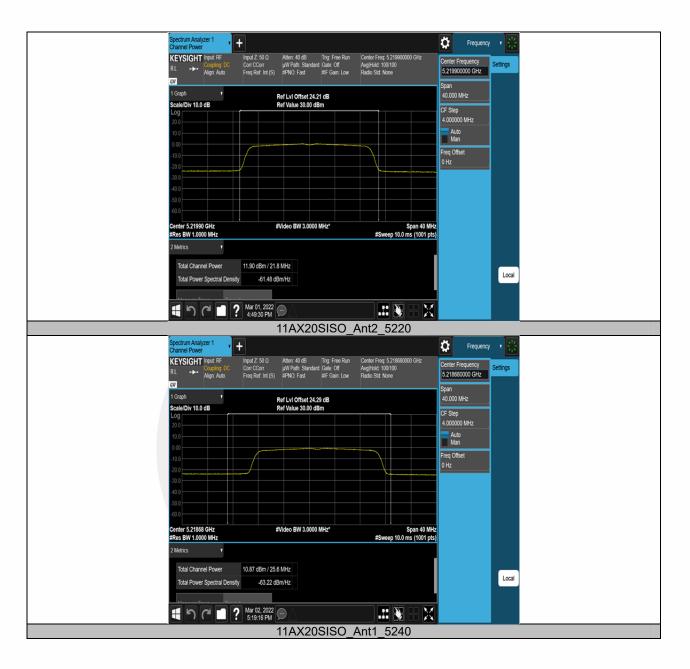


Spectrum Analyzer 1 Channel Power	+			Frequency	- 7 法	
KEYSIGHT Input RF	Input Z: 50 Ω Atten: 40 dB Corr CCorr µW Path: Stand	Trig: Free Run Cer ard Gate: Off Avr	iter Freq: 5.775160000 GHz  Hold: 100/100	Center Frequency	Settings	
RL +++ Align: Auto	Freq Ref: Int (S) #PNO: Fast	#IF Gain: Low Rai	lio Std: None	5.775160000 GHz		
1 Graph v	- //			Span		
Scale/Div 10.0 dB	Ref LvI Offset 2 Ref Value 30.00	4.91 dB dBm		160.00 MHz		
20.0				CF Step 16.000000 MHz		
10.0				Auto		
0.00				Man		
-10.0	V			Freq Offset 0 Hz		
-20.0	_		·			
-30.0						
-50.0						
-60.0						
Center 5.77516 GHz	#Video BW 3.000	00 MHz*	Span 160 MHz			
#Res BW 1.0000 MHz			#Sweep 10.0 ms (1001 pts)			
2 Metrics v						
Total Channel Power	11.64 dBm / 80.0 MHz					
Total Power Spectral Densit	y -67.39 dBm/Hz				Local	
No						
<b>4</b> 5732	Mar 01, 2022 4:35:02 PM					
		0SISO An				
Spectrum Analyzer 1			12_0110		<u>.</u>	
Channel Power	+			Frequency	- ' 陸	
RL +++ Couping DC	Input Z: 50 Ω Atten: 40 dB Corr CCorr µW Path: Stand	Trig: Free Run Cer ard Gate: Off Avg #IF Gain: Low Rad	iter Freq: 5.775080000 GHz  Hold: 100/100	Center Frequency	Settings	
RL ++ Align: Auto	Freq Ref: Int (S) #PNO: Fast	#IF Gain: Low Rad	lio Std: None	5.775080000 GHz		
1 Graph v	Ref LvI Offset 2	E OE dB		Span 160.00 MHz		
Scale/Div 10.0 dB	Ref Value 30.00			CF Step		
Log 20.0				16.000000 MHz		
10.0				Auto		
0.00				Man Si an		
-10.0				Freq Offset 0 Hz		
-20.0			L			
-40.0						
-50.0						
-60.0						
Center 5.77508 GHz	#Video BW 3.000	00 MHz*	Span 160 MHz			
#Res BW 1.0000 MHz 2 Metrics v			#Sweep 10.0 ms (1001 pts)			
2 1100103						
Total Channel Power	11.55 dBm / 79.8 MHz				local	
Total Power Spectral Densit	y -67.47 dBm/Hz				Local	
<b>1</b> 771?	Mar 02, 2022 5:14:08 PM					

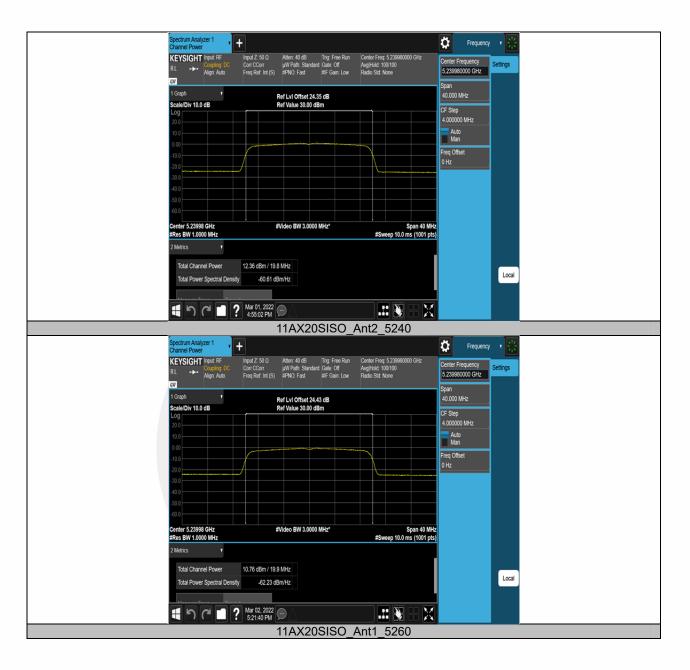




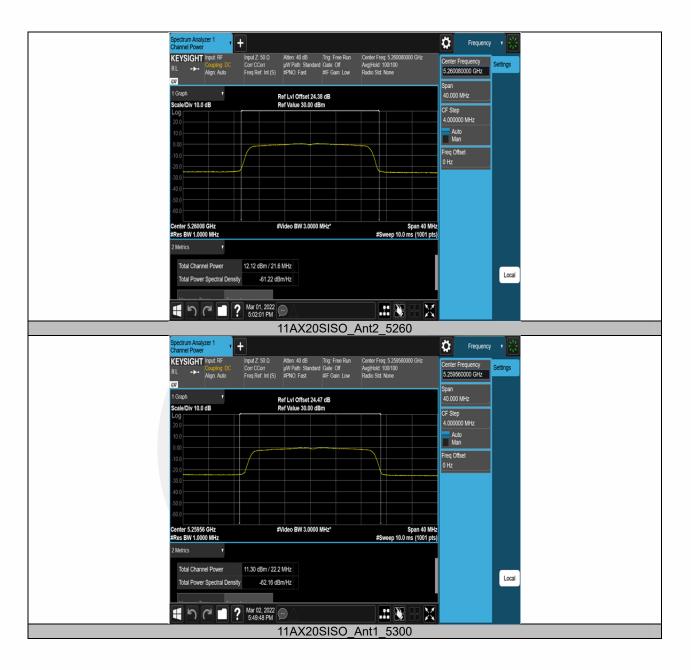




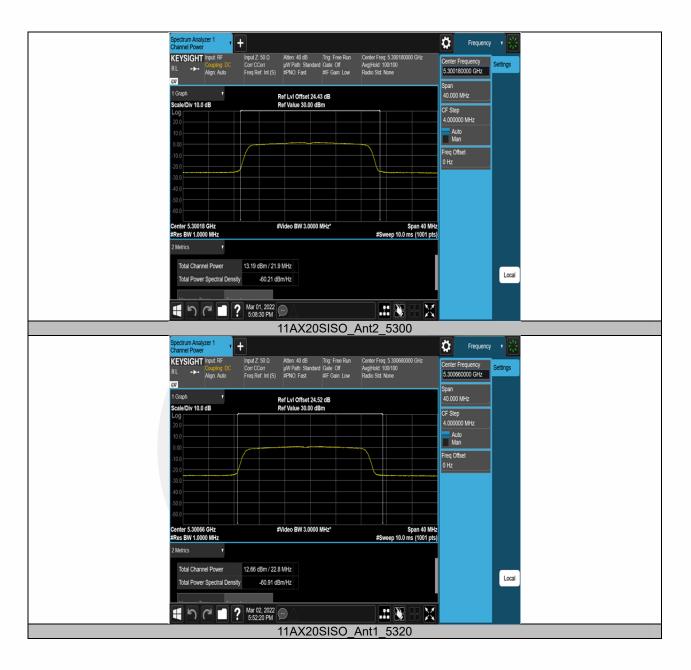








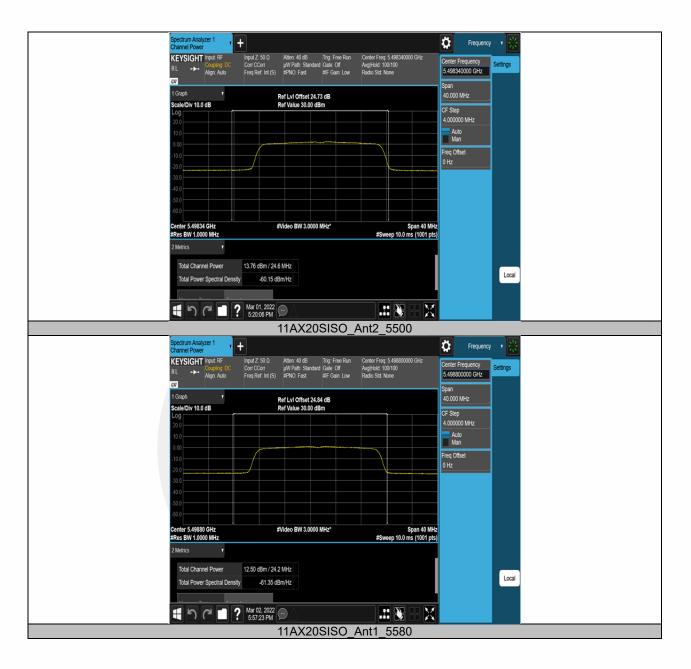




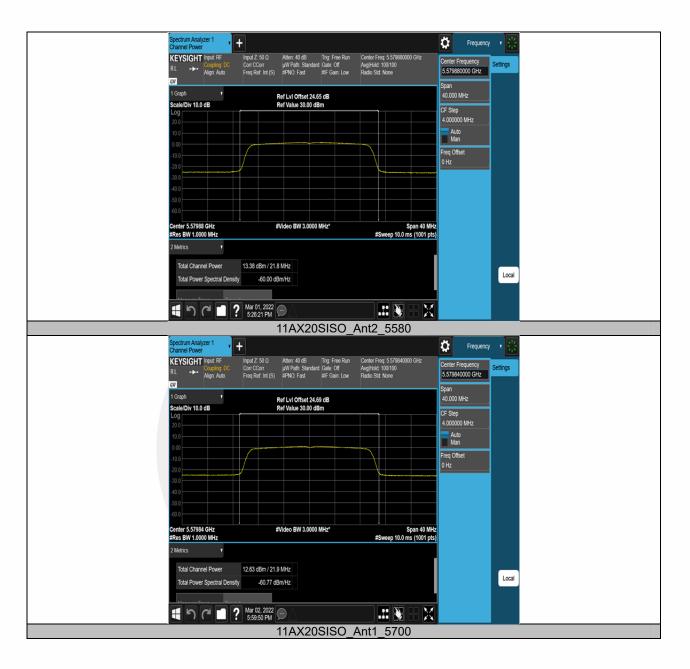




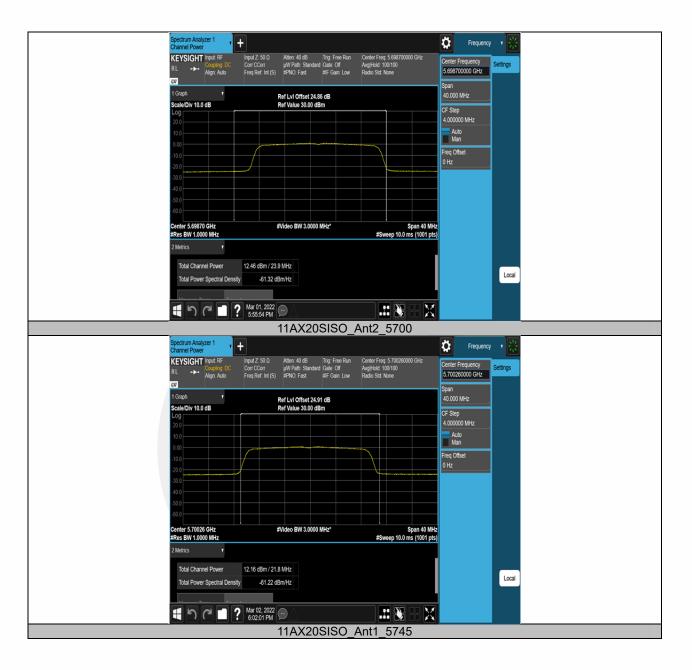




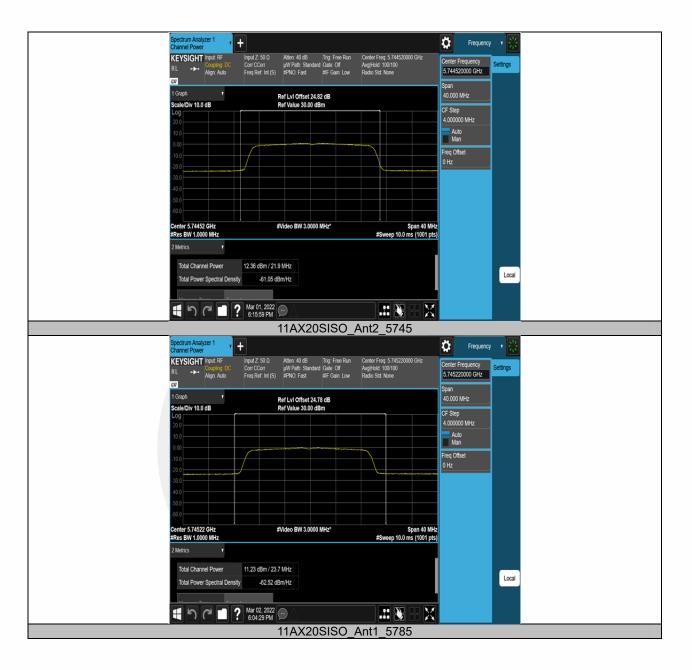




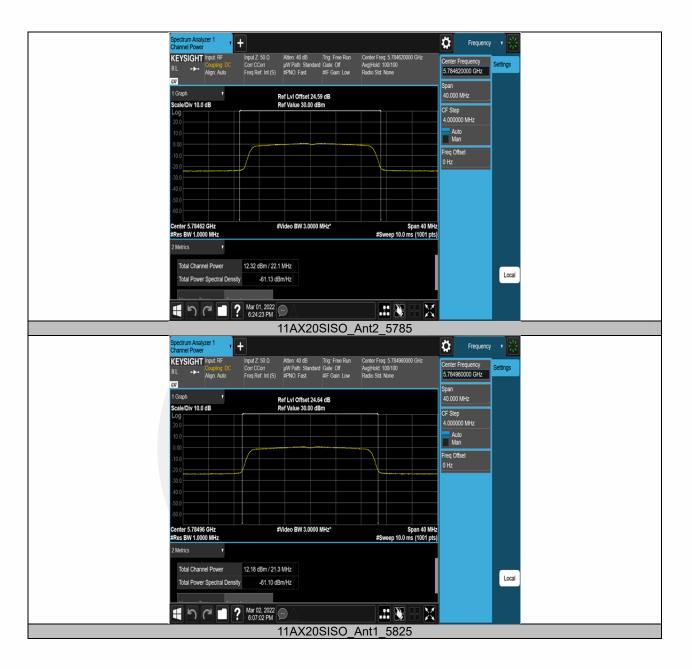




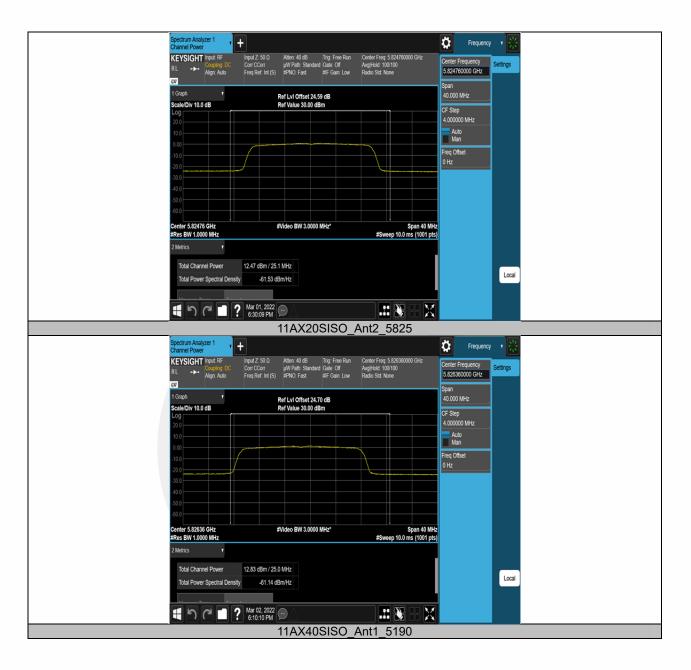




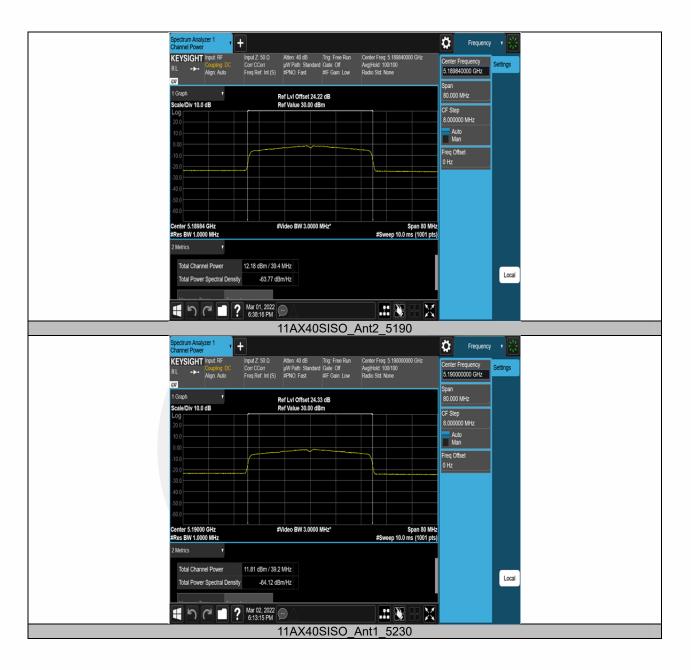




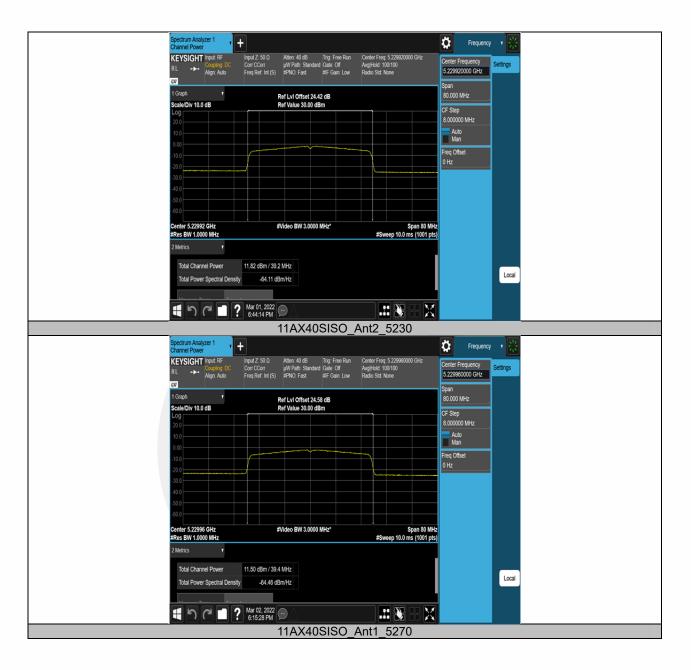




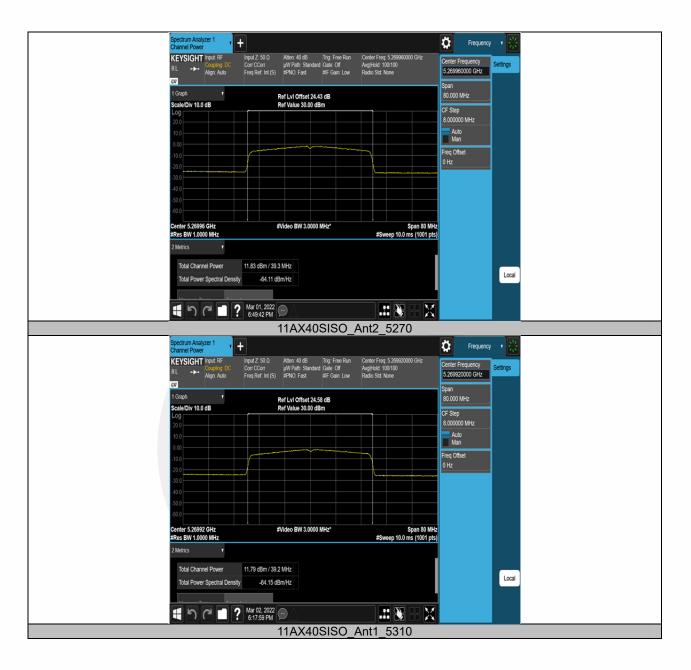




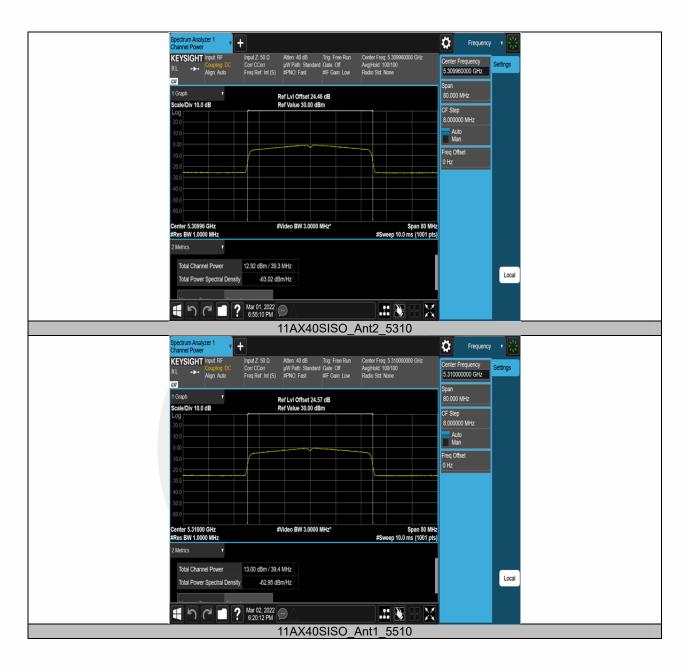




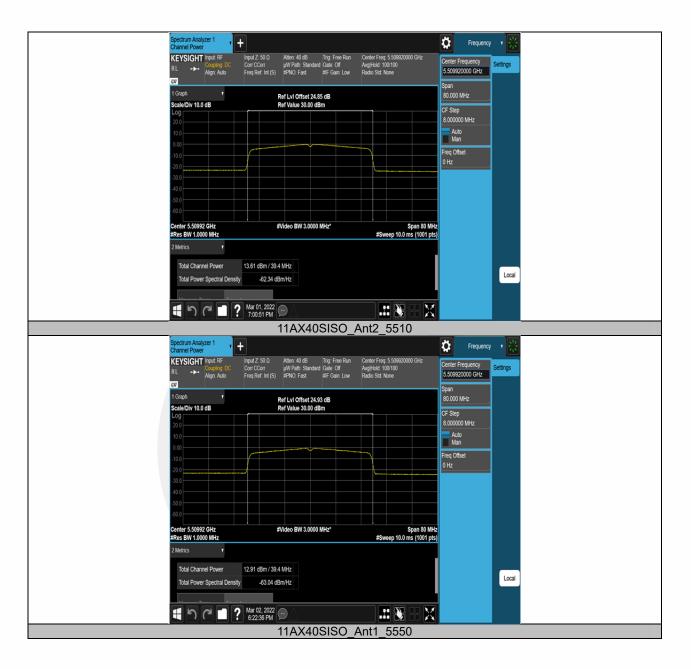




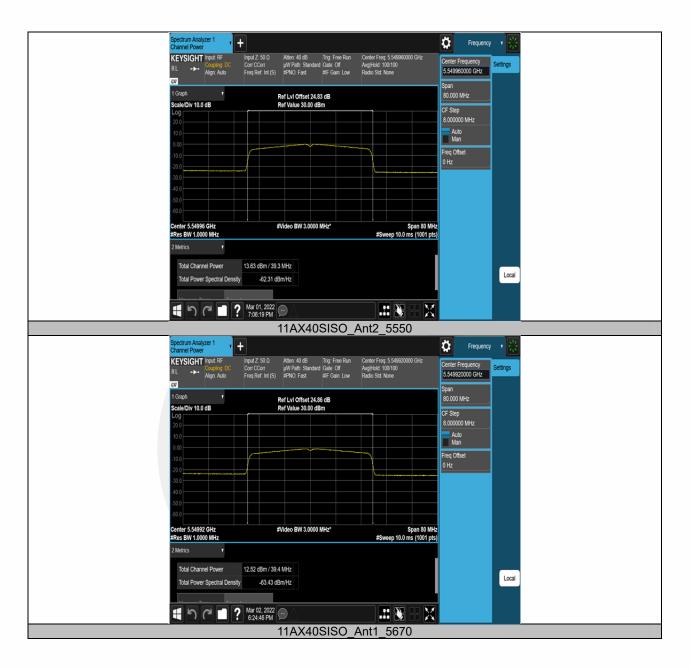




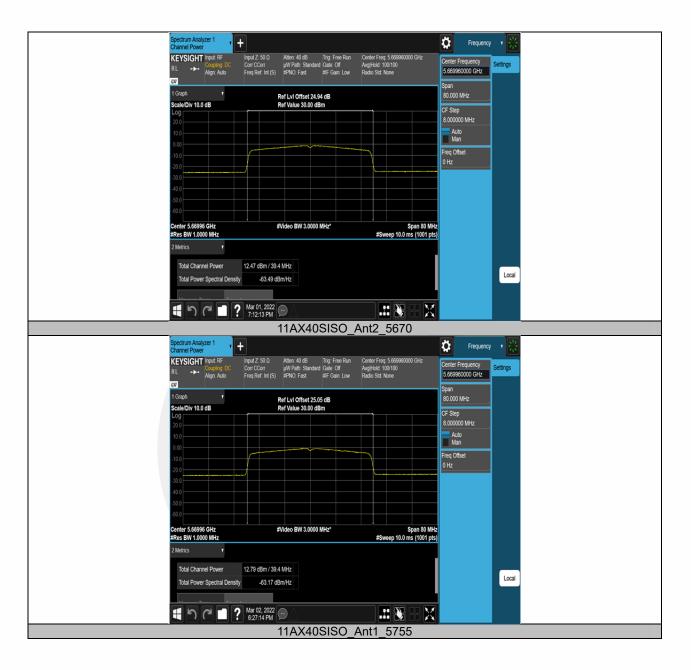




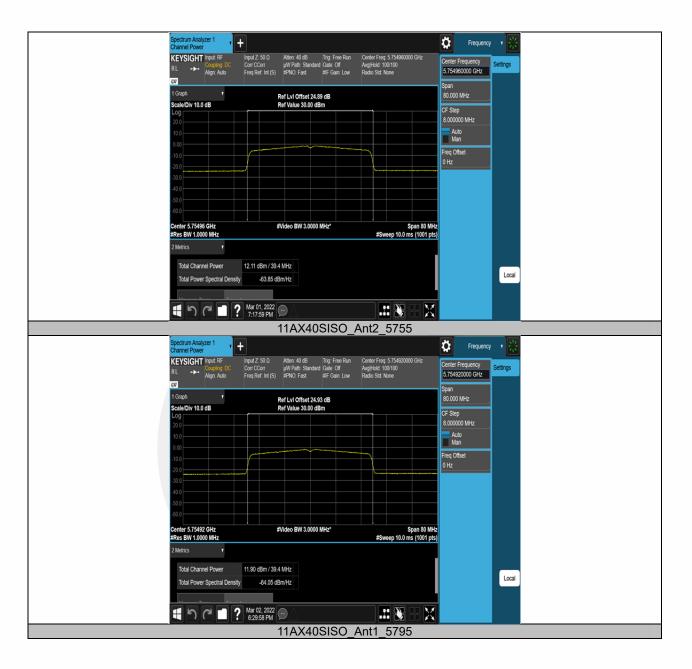




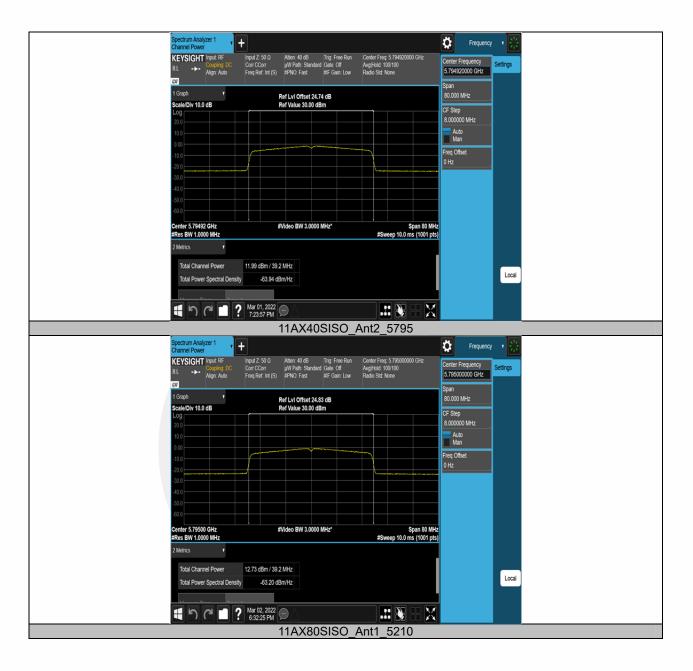














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Spectrum Analyzer 1 Channel Power				Frequency	T 212	
KEYSIGHT Input RF	Input Z: 50 Ω Atten: 40 dB Corr CCorr µW Path: Standa	Trig: Free Run Cer	iter Freq: 5.209920000 GHz  Hold: 100/100	Center Frequency	Settings	
KL ++ Align: Auto	Freq Ref: Int (S) #PNO: Fast	#IF Gain: Low Rai	lio Std: None	5.209920000 GHz		
LV 1 Graph v				Span		
Scale/Div 10.0 dB	Ref LvI Offset 24. Ref Value 30.00 d	.62 dB IBm		160.00 MHz		
Log				CF Step 16.000000 MHz		
10.0				Auto		
0.00		_		Man		
-10.0				Freq Offset 0 Hz		
-20.0						
-30.0						
-50.0						
-60.0						
Center 5.20992 GHz	#Video BW 3.000	0 MHz*	Span 160 MHz			
#Res BW 1.0000 MHz 2 Metrics v			#Sweep 10.0 ms (1001 pts)			
2 Metrics V						
Total Channel Power	12.30 dBm / 80.2 MHz				lent	
Total Power Spectral Density	-66.74 dBm/Hz				Local	
			]			
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		SISO An				
Spectrum Analyzer 1		<u>, , , , , , , , , , , , , , , , , , , </u>	_	*		
Channel Power		T F D 0		Frequency	1	
	Input Z: 50 Ω Atten: 40 dB Corr CCorr µW Path: Standa	Trig: Free Run Cer rd Gate: Off Avg #IF Gain: Low Rad	iter Freq: 5.209920000 GHz (Hold: 100/100	Center Frequency 5.209920000 GHz	Settings	
RL +++ Couping DC Align: Auto	Freq Ref: Int (S) #PNO: Fast	#IF Gain: Low Rai	iio Std: None			
1 Graph v	Ref LvI Offset 24	55 dB		Span 160.00 MHz		
Scale/Div 10.0 dB	Ref Value 30.00 d		_	CF Step		
20.0				16.000000 MHz		
10.0				Auto Man		
0.00				Freq Offset		
-10.0				0 Hz		
-30.0	-					
-40.0						
-50.0						
-60.0						
Center 5.20992 GHz #Res BW 1.0000 MHz	#Video BW 3.000	0 MHz*	Span 160 MHz #Sweep 10.0 ms (1001 pts)			
2 Metrics v						
Total Channel Power	11.57 dBm / 79.8 MHz					
Total Power Spectral Density	-67.45 dBm/Hz				Local	
Total Power Spectral Defisity	-07.40 dbill/h2					
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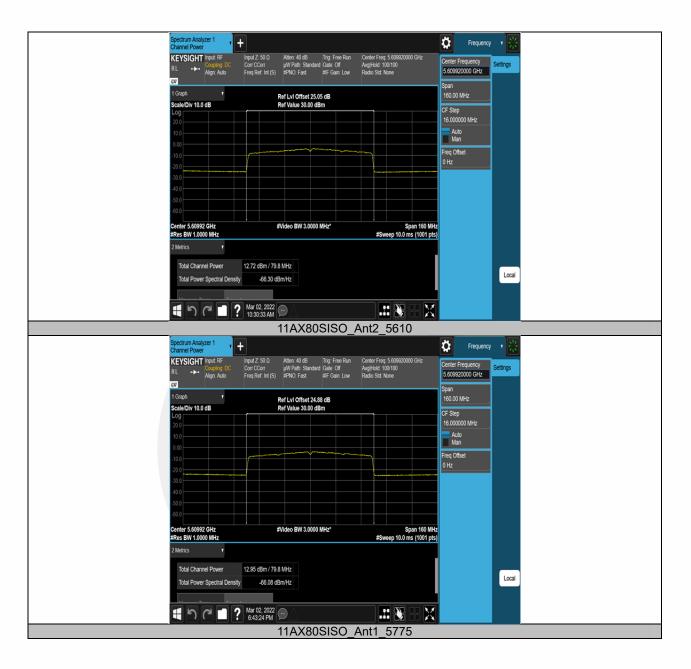


Spectrum Analyzer 1 Channel Power			🛱 Freque	ncy 🔻 🔆	
KEYSIGHT Input: RF	Input Z: 50 Ω Atten: 40 dB Corr CCorr μW Path: Standa	Trig: Free Run Center Freq: 5.29 rd Gate: Off Avg Hold: 100/10	0000000 GHz Center Frequency	Settings	
RL ++ Align: Auto	Freq Ref: Int (S) #PNO: Fast	#IF Gain: Low Radio Std: None	5.290000000 GHz		
LV 1 Graph v			Span		
Scale/Div 10.0 dB	Ref LvI Offset 24. Ref Value 30.00 d	84 dB IBm	160.00 MHz		
20.0			CF Step 16.000000 MHz		
10.0			Auto		
0.00			Man		
-10.0			Freq Offset 0 Hz		
-20.0					
-30.0					
-50.0					
-60.0					
Center 5.29000 GHz	#Video BW 3.000		Span 160 MHz		
#Res BW 1.0000 MHz 2 Metrics v		#Sweep	10.0 ms (1001 pts)		
2 Metrics v					
Total Channel Power	12.89 dBm / 79.7 MHz				
Total Power Spectral Density	-66.13 dBm/Hz			Local	
¶                            	Mar 01, 2022 7:35:01 PM				
		SISO Ant2 52			
Spectrum Analyzer 1					
Channel Power			Freque	ncy 🕐 🔀	
RL ++ Coupling DC	Input Z: 50 Ω Atten: 40 dB Corr CCorr µW Path: Standa	Trig: Free Run Center Freq: 5.28 rd Gate: Off Avg Hold: 100/10 #IF Gain: Low Radio Std: None	9760000 GHz Center Frequency	Settings	
RL ↔ Align: Auto	Freq Ref: Int (S) #PNO: Fast	#IF Gain: Low Radio Std: None			
1 Graph v	Ref LvI Offset 24	82 dB	Span 160.00 MHz		
Scale/Div 10.0 dB	Ref Value 30.00 d		CF Step		
20.0			16.000000 MHz		
10.0			Auto		
0.00			Man		
-10.0			Freq Offset 0 Hz		
-20.0	-				
-40.0					
-50.0					
-60.0					
Center 5.28976 GHz #Res BW 1.0000 MHz	#Video BW 3.000		Span 160 MHz 10.0 ms (1001 pts)		
2 Metrics Y		#Sweep			
Total Channel Power	12.47 dBm / 80.2 MHz			Local	
Total Power Spectral Density	-66.57 dBm/Hz				
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Spectrum Analyzer 1 Channel Power	+		🗘 Frequency 🕇 🔆	
KEYSIGHT Input RF	Input Z: 50 Ω Atten: 40 dB Tri Corr CCorr μW Path: Standard Ga	ig: Free Run Center Freq: 5.529920000 GHz ate: Off Avg Hold: 100/100	Center Frequency Settings	
RL ++ Align: Auto		F Gain: Low Radio Std: None	5.529920000 GHz	
LV 1 Graph v			Span	
Scale/Div 10.0 dB	Ref LvI Offset 25.17 dl Ref Value 30.00 dBm	B	160.00 MHz	
20.0			CF Step 16.000000 MHz	
10.0			Auto	
0.00			Man	
-10.0			Freq Offset 0 Hz	
-20.0				
-40.0				
-50.0				
-60.0				
Center 5.52992 GHz	#Video BW 3.0000 MH2		MHz	
#Res BW 1.0000 MHz		#Sweep 10.0 ms (1001	pts)	
2 Metrics v				
Total Channel Power	13.85 dBm / 79.8 MHz			
Total Power Spectral Density	y -65.17 dBm/Hz		Local	
N				
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Spectrum Analyzer 1		100_AIII2_0000		1
Channel Power	+		🔅 Frequency 🕇 🔆	
KEYSIGHT Input: RF Coupling: DC	Input Z: 50 Ω Atten: 40 dB Tri Corr CCorr μW Path: Standard Ga	ig: Free Run Center Freq: 5.530000000 GHz ate: Off Avg Hold: 100/100	Center Frequency Settings	
RL +++ Coupling DC Align: Auto	Freq Ref: Int (S) #PNO: Fast #IF	ate: Off Avg Hold: 100/100 F Gain: Low Radio Std: None	5.53000000 GHz	
1 Graph v	B. (1) BK- 105 01 1	_	Span 160 00 MHT	
Scale/Div 10.0 dB	Ref LvI Offset 25.24 dl Ref Value 30.00 dBm		160.00 MHz	
20.0			CF Step 16.000000 MHz	
10.0			Auto	
0.00			Man	
-10.0			Freq Offset 0 Hz	
-20.0				
-30.0				
-50.0				
-60.0				
Center 5.53000 GHz	#Video BW 3.0000 MH;			
#Res BW 1.0000 MHz		#Sweep 10.0 ms (1001	pts)	
2 Metrics 🔻				
Total Channel Power	12.88 dBm / 80.0 MHz			
Total Power Spectral Density	y -66.15 dBm/Hz		Local	
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	TIAX80S	ISO_Ant1_5610		







Spectrum Analyzer 1 Channel Power			🎝 Frequency 🔹 🔆	
KEYSIGHT Input: RF	Input Z: 50 Ω Atten: 40 dB Trig: Free Run	Center Freq: 5.774920000 GHz		
RL ++ Coupling DC Align: Auto	Corr CCorr µW Path: Standard Gate: Off	Avg Hold: 100/100 Radio Std: None	Center Frequency 5.774920000 GHz	
LN .	riogran. in (0) in no. rask in Oan. com		Span	
1 Graph v	Ref LvI Offset 25.10 dB		160.00 MHz	
Scale/Div 10.0 dB	Ref Value 30.00 dBm		CF Step	
20.0			16.000000 MHz	
10.0			Auto	
0.00			Man	
-10.0			Freq Offset 0 Hz	
-20.0	-		U HZ	
-30.0				
-40.0				
-50.0				
Center 5.77492 GHz		Contra 100 101		
#Res BW 1.0000 MHz	#Video BW 3.0000 MHz*	Span 160 MHz #Sweep 10.0 ms (1001 pts)		
2 Metrics v				
Total Channel Power	11.94 dBm / 79.8 MHz		Local	
Total Power Spectral Density	-67.08 dBm/Hz		Local	
¶ n a ∎ ?	Mar 02, 2022 12:00:17 PM	X X :-		
	11AX80SISO			•
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Spectrum Analyzer 1	_		Frequency 🔹 👯	
Channel Power	linput Z: 50 Ω Atten: 40 dB Trig: Free Run	Center Freq: 5.774920000 GHz		
Channel Power	Input Z: 50 Ω Atten: 40 dB Trig: Free Run Corr CCorr μW Path: Standard Gate: Off	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Frequency  Frequency Center Frequency 5.774920000 GHz	
Spectrum Analyzer 1 Channel Power KEYSIGHT Input: RF RL ++ Coupling: DC Align: Auto	linput Z: 50 Ω Atten: 40 dB Trig: Free Run	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency 5.774920000 GHz Settings	
Channel Power KEYSIGHT Input: RF RL +>+ Coupling: DC Align: Auto CO 1 Graph	Input Z: 50 Ω Atten: 40 dB Trig: Free Run Corr CCorr μW Path: Standard Gate: Off	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency Settings	
Channel Power KEYSIGHT Input RF Coupling DC Align: Auto I Graph Scale/Div 10.0 dB	Input Z. 50 Q. Atten. 40 dB. Trig: Free Run Corr Corr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO: Fast #IF Gain: Low	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency 5.774920000 GHz Span	
Channel Power KEYSIGHT Input: RF RL +>+ Coupling: DC Align: Auto CO 1 Graph	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency 5.774920000 GHz Span 160.00 MHz	
Channel Power KEYSIGHT Input: RF Coupling Coupli	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency         Settings           Span         160.00 MHz           CF Step         16.0000 MHz           If 6.00000 MHz         4000	
Channel Power KEYSIGHT Input RF KEYSIGHT Input RF Coopeny DC Align Auto CO	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency         Setting3           5/774520000 GHz         Setting3           Span         60.00 MHz           16.00000 MHz         Auto           Auto         Auto	
Channel Power KEYSIGHT Ingols RF L Scale/Div 10.0 dB Log 20 1 Graph Scale/Div 10.0 dB Log 10 0	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Flequency         Settings           5.774520000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Freq Offset	
Channel Power         Image: Channel Power           KEYSIGHT Input Rif         Coupling DC           RL         →→         Coupling DC           I Graph         Y         Scale/DV 10.0 dB           Log	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency         Setting3           5/774520000 GHz         Setting3           Span         60.00 MHz           16.00000 MHz         Auto           Auto         Auto	
Channel Power         Novi RF           KEYSIGHT         Input RF           Color         Align: Auto           CC         Scale/Div 10.0 dB           Log         0           200         0           100         0           200         0           200         0           200         0           200         0           200         0           200         0           200         0           200         0	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Flequency         Settings           5.774520000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Freq Offset	
Channel Power         Image: Channel Power           KEYSIGHT Input Rif         Coupling DC           RL         →→         Coupling DC           I Graph         Y         Scale/DV 10.0 dB           Log	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Flequency         Settings           5.774520000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Freq Offset	
Channel Power         Novi RF           KEYSIGHT         Input RF           Color         Align: Auto           CC         Scale/Div 10.0 dB           Log         0           200         0           100         0           200         0           200         0           200         0           200         0           200         0           200         0           200         0           200         0	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Flequency         Settings           5.774520000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Freq Offset	
Channel Power         Image: Channel Power           KEVSIGHT Input Rif         Coupling DC           RL         →→         Coupling DC           I Graph         Image: Coupling DC         Algorithm Auto           I Graph         Image: Coupling DC         Image: Coupling DC           I Graph         I	Input Z. 50 Ω Cor CCorr pW Path: Standard Gate Off Freq Ref. Int (S) #PNO Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm	Center Freq 5/74020000 GHz Argihid 100/100 Radio Sid None	Center Frequency         Settings           5.774920000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Hz	
Channel Power         Novi RF           KEYSIGHT         Input RF           Color         Align: Auto           CC         Scale/Div 10.0 dB           Log         0           200         0           100         0           200         0           200         0           200         0           200         0           200         0           200         0           200         0           200         0	Input Z. 50 0. Atten: 40 dB Trig: Free Run Corr CCorr JW Path: Standard Gate: Off Freq Ref Int (S) #PNO. Fast #IF Gain Low Ref Lvl Offset 25.12 dB	Center Freq: 5 774920000 GHz AvgiHold: 100/100	Center Frequency         Settings           5.774920000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Hz	
Channel Power         Novi RF           KEYSIGHT Input RF         Codeling DC           RL         →→           Joaching DC         Align Auto           V3         Scale/Div 10.0 dB           Log         0           200         0           200         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0           0.00         0	Input Z. 50 Ω Cor CCorr pW Path: Standard Gate Off Freq Ref. Int (S) #PNO Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm	Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None	Center Frequency         Settings           5.774920000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Hz	
Channel Power         Image Net Not RF           KEYSIGHT Index Mg         Adgm: Auto           U         I Graph         I           1 Graph         I         Scale/Div 10.0 dB           Log         I         I           20         I         I           1 Graph         I         Scale/Div 10.0 dB           Log         I         I           200         I         I           200 <t< td=""><td>Input Z. 50 Q Atten: 40 dB Trg: Free Run Cor CCorr Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm #Video BW 3.0000 MHz*</td><td>Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None</td><td>Center Frequency         Settings           5.774920000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Hz</td><td></td></t<>	Input Z. 50 Q Atten: 40 dB Trg: Free Run Cor CCorr Freq Ref. Int (S) #PNO. Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm #Video BW 3.0000 MHz*	Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None	Center Frequency         Settings           5.774920000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Hz	
Channel Power         Imput RF           KEYSIGHT         Input RF           RL         →→           Algen Auto         Z           1 Graph         ▼           Scale/Div 10.0 dB         Z           Log         Z           10         D           0.00         Z           100         Z           200         Z           200         Z           Center 5.77492 OHz         Z           2 Metrics         V           Total Channel Power         V	Input Z. 50 Q Atten: 40 dB Trg: Free Run Cor CCorr Freq Ref. Int (S) #PNO Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm #Video BW 3.0000 MHz*	Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None	Center Flequency         Settings           5/74920000 GHz         Settings           Span         60.00 MHz           16.0000 MHz         Man           Auto         Freq Offset           0 Hz         Hz	
Channel Power         Image Net Not RF           KEYSIGHT Index Mg         Adgm: Auto           U         I Graph         I           1 Graph         I         Scale/Div 10.0 dB           Log         I         I           20         I         I           1 Graph         I         Scale/Div 10.0 dB           Log         I         I           200         I         I           200 <t< td=""><td>Input Z. 50 0. Atten: 40 dB Trg: Free Run Cor CCorr Freq Ref. Int (S) #PNO Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm #Video BW 3.0000 MHz* 12.11 dBm / 79.8 MHz</td><td>Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None</td><td>Center Frequency         Settings           5.774920000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Hz</td><td></td></t<>	Input Z. 50 0. Atten: 40 dB Trg: Free Run Cor CCorr Freq Ref. Int (S) #PNO Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm #Video BW 3.0000 MHz* 12.11 dBm / 79.8 MHz	Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None	Center Frequency         Settings           5.774920000 GHz         Span           160.00 MHz         CF Step           16.0000 MHz         Man           Freq Offset         Hz	
Channel Power         Induk RF           KEYSIGHT         Induk RF           RL         →→           Alger Auto         ZZ           1 Graph         ▼           Scale/Div 10.0 dB         Z           10         0           0.00         20           10.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           40.0         20.0           40.0         20.0           40.0         20.0           20.0         20.0           21.0         20.0           22.0         20.0           23.0	Input Z. 50 0. Atten: 40 d8 Trig: Free Run Cor CCorr Freq Ref. Int (S) #PNO. Fast #IF Gam. Low Ref Lvi Offset 25.12 d8 Ref Value 30.00 dBm #Video BW 3.0000 MHz* 12.11 dBm / 79.8 MHz -66.91 dBm Hz	Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None	Center Flequency         Settings           5/74920000 GHz         Settings           Span         60.00 MHz           16.0000 MHz         Man           Auto         Freq Offset           0 Hz         Hz	
Channel Power         Induk RF           KEYSIGHT         Induk RF           RL         →→           Alger Auto         ZZ           1 Graph         ▼           Scale/Div 10.0 dB         Z           10         0           0.00         20           10.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           20.0         20           40.0         20.0           40.0         20.0           40.0         20.0           20.0         20.0           21.0         20.0           22.0         20.0           23.0	Input Z. 50 Q Atten: 40 dB Trg: Free Run Cor CCorr Freq Ref. Int (S) #PNO Fast #IF Gain Low Ref Lvi Offset 25.12 dB Ref Value 30.00 dBm #Video BW 3.0000 MHz*	Center Freq: 5.774920000 GHz Anglikid: 100100 Radio Sidi None	Center Flequency         Settings           5/74920000 GHz         Settings           Span         60.00 MHz           16.0000 MHz         Man           Auto         Freq Offset           0 Hz         Hz	



# 8.3 MAXIMUM PEAK POWER DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C According to FCC Part 15.407(a)(3) for UNII Band III According to 789033 D02 Section II(F) According to RSS 247 6.2

## 8.3.2 Conformance Limit

### FCC Limit:

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (ii) For an indoor access point, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(b) (2) The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3)The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

# IC Limit:



■ Frequency band 5150-5250 MHz

The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

■ Frequency band 5250-5350 MHz

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Frequency bands 5470-5600 MHz and 5650-5725 MHz

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

■ Frequency band 5725-5850 MHz

The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

# 8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

## 8.3.4 Test Procedure

### Methods refer to FCC KDB 789033

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW  $\geq 1/T$ , where T is defined in section II.B.I.a).

b) Set VBW  $\geq$  3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections

5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.



### 8.3.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

## Note: N/A

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
	Ant1	5180	1.69	≤11.00	PASS
	Ant2	5180	0.38	≤11.00	PASS
	Ant1	5220	1.24	≤11.00	PASS
	Ant2	5220	-0.11	≤11.00	PASS
	Ant1	5240	1.85	≤11.00	PASS
	Ant2	5240	-0.11	≤11.00	PASS
	Ant1	5260	1.43	≤11.00	PASS
	Ant2	5260	0.43	≤11.00	PASS
	Ant1	5300	2.49	≤11.00	PASS
	Ant2	5300	1.77	≤11.00	PASS
	Ant1	5320	2.42	≤11.00	PASS
	Ant2	5320	1.87	≤11.00	PASS
11A	Ant1	5500	2.09	≤11.00	PASS
	Ant2	5500	1.45	≤11.00	PASS
	Ant1	5580	2.33	≤11.00	PASS
	Ant2	5580	1.69	≤11.00	PASS
	Ant1	5700	1.45	≤11.00	PASS
	Ant2	5700	1.22	≤11.00	PASS
	Ant1	5745	-1.57	≤30.00	PASS
	Ant2	5745	-1.89	≤30.00	PASS
	Ant1	5785	-1.69	≤30.00	PASS
	Ant2	5785	-1.74	≤30.00	PASS
	Ant1	5825	-1.11	≤30.00	PASS
	Ant2	5825	-0.53	≤30.00	PASS
	Ant1	5180	1.15	≤11.00	PASS
	Ant2	5180	0.11	≤11.00	PASS
	Ant1	5220	0.80	≤11.00	PASS
	Ant2	5220	-0.36	≤11.00	PASS
	Ant1	5240	1.31	≤11.00	PASS
	Ant2	5240	-0.02	≤11.00	PASS
	Ant2 Ant1	5260	1.10	≤11.00	PASS
	Ant2	5260	0.22	≤11.00	PASS
	Ant1	5300	2.01	≤11.00	PASS
	Ant2	5300	1.59	≤11.00	PASS
	Ant1	5320	1.99	≤11.00	PASS
	Ant2	5320	1.59	≤11.00	PASS
11N20SISO	Ant2 Ant1	5500	2.62	≤11.00	PASS
	Ant2	5500	1.10	≤11.00	PASS PASS
	Ant1	5580	2.24	≤11.00	
	Ant2	5580	1.48	≤11.00	PASS
	Ant1	5700	1.16	≤11.00	PASS
	Ant2	5700	0.95	≤11.00	PASS
	Ant1	5745	-1.46	≤30.00	PASS
	Ant2	5745	-2.57	≤30.00	PASS
	Ant1	5785	-1.83	≤30.00	PASS
	Ant2	5785	-1.95	≤30.00	PASS
	Ant1	5825	-1.41	≤30.00	PASS
	Ant2	5825	-0.88	≤30.00	PASS

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	A == ±4	F100	4 44	<11.00	DACO
	Ant1	5190	-1.11	≤11.00	PASS
	Ant2	5190	-1.57	≤11.00	PASS
	Ant1	5230	-1.33	≤11.00	PASS
	Ant2	5230	-1.95	≤11.00	PASS
	Ant1	5270	-1.21	≤11.00	PASS
	Ant2	5270	-1.38	≤11.00	PASS
	Ant1	5310	-0.20	≤11.00	PASS
	Ant2	5310	-0.25	≤11.00	PASS
11N40SISO	Ant1	5510	0.21	≤11.00	PASS
	Ant2	5510	-0.59	≤11.00	PASS
	Ant1	5550	0.34	≤11.00	PASS
	Ant2	5550	-1.14	≤11.00	PASS
	Ant1	5670	-0.58	≤11.00	PASS
	Ant2	5670	-0.58	≤11.00	PASS
	Ant1	5755	-4.39	≤30.00	PASS
	Ant2	5755	-4.43	≤30.00	PASS
	Ant1	5795	-4.19	≤30.00	PASS
	Ant2	5795	-3.35	≤30.00	PASS
	Ant1	5180	1.25	≤11.00	PASS
	Ant2	5180	0.20	≤11.00	PASS
	Ant1	5220	0.75	≤11.00	PASS
	Ant2	5220	-0.29	≤11.00	PASS
	Ant1	5240	1.37	≤11.00	PASS
	Ant2	5240	0.05	≤11.00	PASS
	Ant1	5260	1.04	≤11.00	PASS
	Ant2	5260	0.49	≤11.00	PASS
	Ant1	5300	2.06	≤11.00	PASS
	Ant2	5300	1.52	≤11.00	PASS
	Ant1	5320	2.03	≤11.00	PASS
	Ant2	5320	1.61	≤11.00	PASS
11AC20SISO	Ant1	5500	2.56	≤11.00	PASS
	Ant2	5500	1.15	≤11.00	PASS
	Ant1	5580	2.23	≤11.00	PASS
	Ant2	5580	1.44	≤11.00	PASS
	Ant1	5700	1.21	≤11.00	PASS
	Ant2	5700	0.90	≤11.00	PASS
	Ant1	5745	-1.71	≤11.00 ≤30.00	PASS
	Ant2	5745	-2.26	≤30.00	PASS
		5785			PASS
	Ant1		-1.60	≤30.00	PASS
	Ant2	5785	-1.68	≤30.00	
	Ant1	5825	-1.36	≤30.00	PASS
	Ant2	5825	-0.97	≤30.00	PASS
	Ant1	5190	-1.18	≤11.00	PASS
	Ant2	5190	-1.41	≤11.00	PASS
	Ant1	5230	-1.43	≤11.00	PASS
	Ant2	5230	-1.96	≤11.00	PASS
	Ant1	5270	-1.26	≤11.00	PASS
	Ant2	5270	-1.43	≤11.00	PASS
	Ant1	5310	-0.28	≤11.00	PASS
	Ant2	5310	-0.22	≤11.00	PASS
11AC40SISO	Ant1	5510	0.17	≤11.00	PASS
11.040000	Ant2	5510	-0.50	≤11.00	PASS
	Ant1	5550	0.26	≤11.00	PASS
	Ant2	5550	-0.71	≤11.00	PASS
	Ant1	5670	-0.91	≤11.00	PASS
	Ant2	5670	-0.47	≤11.00	PASS
	Ant1	5755	-4.49	≤30.00	PASS
	Ant2	5755	-4.00	≤30.00	PASS
	Ant1	5795	-4.40	≤30.00	PASS
			-3.88	≤30.00	PASS
	Ant2	5795	-3.00	<u>≤</u> 30.00	1 400

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	Ant2	5210	-5.08	≤11.00	PASS
F	Ant1	5290	-3.99	≤11.00	PASS
Γ	Ant2	5290	-4.09	≤11.00	PASS
Γ	Ant1	5530	-2.94	≤11.00	PASS
Γ	Ant2	5530	-3.75	≤11.00	PASS
Γ	Ant1	5610	-4.10	≤11.00	PASS
Γ	Ant2	5610	-3.87	≤11.00	PASS
Γ	Ant1	5775	-7.70	≤30.00	PASS
Γ	Ant2	5775	-7.41	≤30.00	PASS
	Ant1	5180	0.85	≤11.00	PASS
Γ	Ant2	5180	-0.03	≤11.00	PASS
Γ	Ant1	5220	0.39	≤11.00	PASS
Γ	Ant2	5220	-0.49	≤11.00	PASS
	Ant1	5240	1.04	≤11.00	PASS
	Ant2	5240	-0.45	≤11.00	PASS
	Ant1	5260	0.76	≤11.00	PASS
	Ant2	5260	0.00	≤11.00	PASS
	Ant1	5300	1.82	≤11.00	PASS
	Ant2	5300	1.42	≤11.00	PASS
	Ant1	5320	1.77	≤11.00	PASS
11AX20SISO	Ant2	5320	1.50	≤11.00	PASS
	Ant1	5500	2.20	≤11.00	PASS
	Ant2	5500	1.05	≤11.00	PASS
	Ant1	5580	1.96	≤11.00	PASS
	Ant2	5580	1.28	≤11.00	PASS
	Ant1	5700	0.94	≤11.00	PASS
	Ant2	5700	0.79	≤11.00	PASS
	Ant1	5745	-1.98	≤30.00	PASS
	Ant2	5745	-2.99	≤30.00	PASS
	Ant1	5785	-2.09	≤30.00	PASS
	Ant2	5785	-2.16	≤30.00	PASS
	Ant1	5825	-1.86	≤30.00	PASS
	Ant2	5825	-1.14	≤30.00	PASS
Ļ	Ant1	5190	-1.35	≤11.00	PASS
Ļ	Ant2	5190	-1.73	≤11.00	PASS
Ļ	Ant1	5230	-1.64	≤11.00	PASS
L	Ant2	5230	-1.97	≤11.00	PASS
L	Ant1	5270	-1.63	≤11.00	PASS
L	Ant2	5270	-1.65	≤11.00	PASS
	Ant1	5310	-0.61	≤11.00	PASS
-	Ant2	5310	-0.31	≤11.00	PASS
11AX40SISO	Ant1	5510	-0.04	≤11.00	PASS
	Ant2	5510	-0.60	≤11.00	PASS
	Ant1	5550	0.14	≤11.00	PASS
	Ant2	5550	-0.97	≤11.00	PASS
	Ant1	5670	-0.98	≤11.00	PASS
	Ant2	5670	-0.58	≤11.00	PASS
+	Ant1	5755	-4.34	≤30.00	PASS
+	Ant2	5755	-4.58	≤30.00	PASS
+	Ant1	5795	-4.43	≤30.00	PASS
	Ant2	5795	-3.62	≤30.00	PASS PASS
+	Ant1	5210	-4.31	≤11.00 ≤11.00	
+	Ant2	5210	-5.00	≤11.00 <11.00	PASS
+	Ant1	5290	-3.64	≤11.00 <11.00	PASS
+	Ant2	5290	-3.94	≤11.00 <11.00	PASS
11AX80SISO	Ant1	5530	-2.81	≤11.00 <11.00	PASS
+	Ant2	5530	-3.73	≤11.00	PASS
+	Ant1	5610	-3.71	≤11.00 <11.00	PASS
+	Ant2 Ant1	5610 5775	-3.54 -7.38	≤11.00 ≤30.00	PASS PASS
+	Ant1 Ant2		-7.38 -7.07		PASS
	Aniz	5775	-1.01	≤30.00	PA33

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