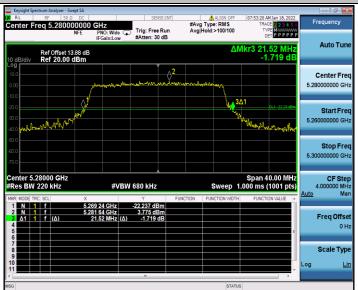


#### 11AX20MIMO\_Ant2\_5240









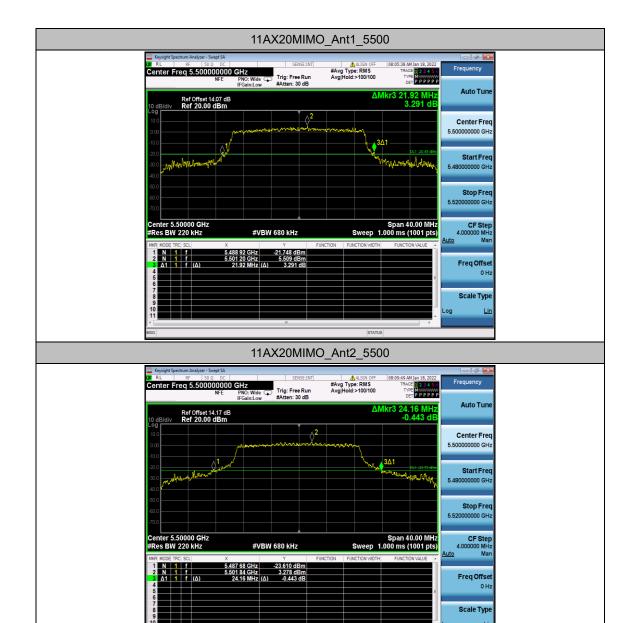
11AX20MIMO\_Ant2\_5280



#### 11AX20MIMO\_Ant1\_5320









#### 11AX20MIMO\_Ant2\_5580





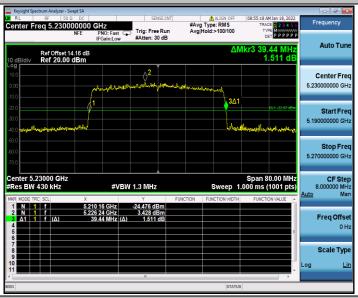




11AX40MIMO\_Ant2\_5190

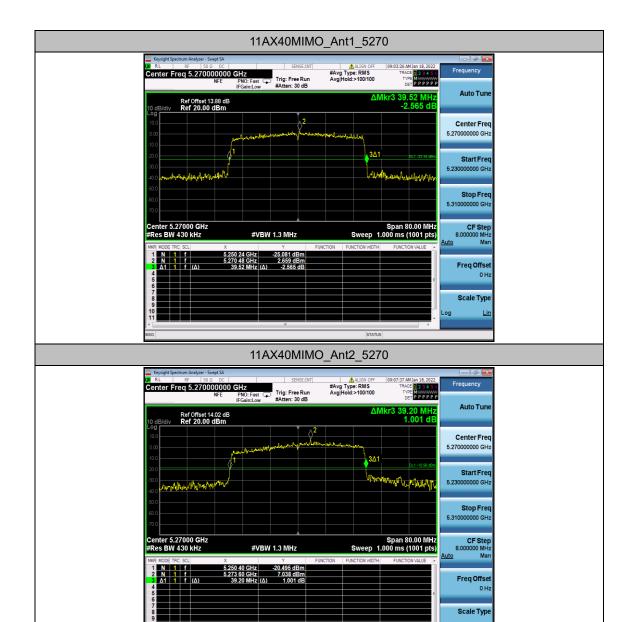


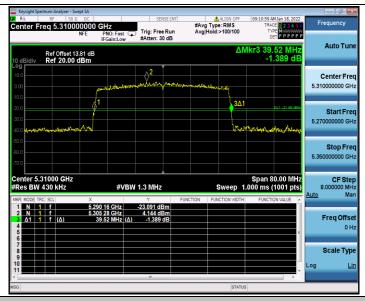
#### 11AX40MIMO\_Ant1\_5230



## 11AX40MIMO\_Ant2\_5230

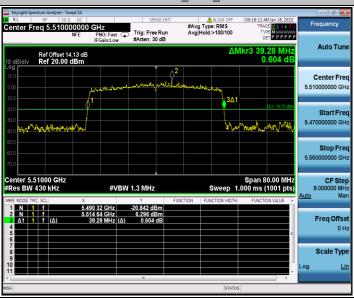


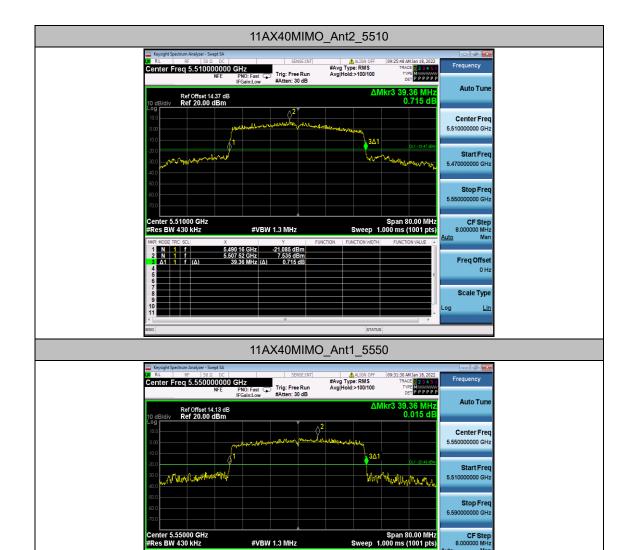




#### 11AX40MIMO\_Ant2\_5310







5.530 32 GHz -21.689 dBm 5.555 68 GHz 5.511 dBm 39.36 MHz (Δ) 0.015 dB

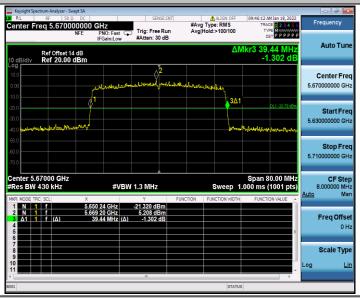
11AX40MIMO\_Ant2\_5550

Freq Offset

Scale Type



#### 11AX40MIMO\_Ant1\_5670



## 11AX40MIMO\_Ant2\_5670





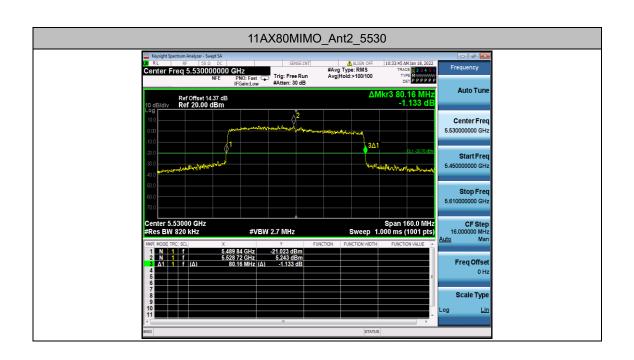




#### 11AX80MIMO\_Ant2\_5290







# Appendix A2: Occupied channel bandwidth

## **Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant1	5180	17.726	5170.977	5188.703		
	Ant2	5180	17.709	5170.993	5188.702		
	Ant1	5200	17.671	5191.072	5208.743		
	Ant2	5200	17.762	5191.067	5208.829		
	Ant1	5240	16.858	5231.480	5248.338		
	Ant2	5240	16.841	5231.441	5248.282		
	Ant1	5260	17.759	5251.017	5268.776		
	Ant2	5260	17.762	5251.026	5268.788		
	Ant1	5280	17.638	5271.094	5288.732		
	Ant2	5280	17.732	5271.055	5288.787		
	Ant1	5320	17.684	5311.028	5328.712		
11A	Ant2	5320	17.703	5311.120	5328.823		
IIA	Ant1	5500	17.651	5491.148	5508.799		
	Ant2	5500	17.666	5491.137	5508.803		
	Ant1	5580	17.601	5571.145	5588.746		
	Ant2	5580	17.611	5571.076	5588.687		
	Ant1	5700	17.715	5691.014	5708.729		
	Ant2	5700	17.661	5691.035	5708.696		
	Ant1	5745	17.696	5736.061	5753.757		
	Ant2	5745	17.609	5736.074	5753.683		
	Ant1	5785	17.793	5775.885	5793.678		
	Ant2	5785	17.694	5776.037	5793.731		
	Ant1	5825	17.570	5816.100	5833.670		
	Ant2	5825	17.771	5816.047	5833.818		
	Ant1	5180	18.750	5170.520	5189.270		
	Ant2	5180	18.834	5170.547	5189.381		
	Ant1	5200	18.782	5190.528	5209.310		
	Ant2	5200	18.892	5190.501	5209.393		
	Ant1	5240	17.860	5230.963	5248.823		
11N20SISO	Ant2	5240	17.760	5231.017	5248.777		
	Ant1	5260	18.781	5250.550	5269.331		
	Ant2	5260	18.886	5250.486	5269.372		
	Ant1	5280	18.697	5270.588	5289.285		
	Ant2	5280	18.744	5270.613	5289.357		
	Ant1	5320	18.772	5310.503	5329.275		
	Ant2	5320	18.710	5310.607	5329.317		
	Ant1	5500	18.927	5490.539	5509.466		

	1		Ī	T		
	Ant2	5500	18.661	5490.632	5509.293	 
	Ant1	5580	18.701	5570.555	5589.256	 
	Ant2	5580	18.668	5570.622	5589.290	 
	Ant1	5700	18.776	5690.523	5709.299	 
	Ant2	5700	18.714	5690.544	5709.258	 
	Ant1	5745	18.806	5735.482	5754.288	 
	Ant2	5745	18.828	5735.588	5754.416	 
	Ant1	5785	18.741	5775.518	5794.259	 
	Ant2	5785	18.824	5775.453	5794.277	 
	Ant1	5825	18.758	5815.543	5834.301	 
	Ant2	5825	18.671	5815.555	5834.226	 
	Ant1	5190	35.862	5171.982	5207.844	 
	Ant2	5190	35.944	5171.945	5207.889	 
	Ant1	5230	35.918	5211.912	5247.830	 
	Ant2	5230	35.798	5211.993	5247.791	 
	Ant1	5270	35.910	5252.051	5287.961	 
	Ant2	5270	35.944	5251.962	5287.906	 
	Ant1	5310	36.013	5291.912	5327.925	 
	Ant2	5310	35.882	5292.027	5327.909	 
11N40SISO	Ant1	5510	35.817	5492.020	5527.837	 
1111405150	Ant2	5510	35.892	5492.031	5527.923	 
	Ant1	5550	35.921	5531.959	5567.880	 
	Ant2	5550	35.961	5531.959	5567.920	 
	Ant1	5670	35.853	5651.945	5687.798	 
	Ant2	5670	35.885	5651.958	5687.843	 
	Ant1	5755	35.880	5736.975	5772.855	 
	Ant2	5755	35.915	5736.960	5772.875	 
	Ant1	5795	35.960	5776.941	5812.901	 
	Ant2	5795	35.867	5776.961	5812.828	 
	Ant1	5180	18.668	5170.517	5189.185	 
	Ant2	5180	18.755	5170.540	5189.295	 
	Ant1	5200	18.756	5190.531	5209.287	 
	Ant2	5200	18.776	5190.606	5209.382	 
	Ant1	5240	17.803	5231.030	5248.833	 
11AC20SISO	Ant2	5240	17.831	5230.973	5248.804	 
	Ant1	5260	18.703	5250.578	5269.281	 
	Ant2	5260	18.751	5250.521	5269.272	 
	Ant1	5280	18.721	5270.557	5289.278	 
	Ant2	5280	18.721	5270.577	5289.298	 
	Ant1	5320	18.685	5310.569	5329.254	 
	Ant2	5320	18.690	5310.588	5329.278	 
	Ant1	5500	18.771	5490.589	5509.360	 
	Ant2	5500	18.707	5490.605	5509.312	 
		i		1		

	A		40.70-	FF70 5 12	FF00 60 :		
	Ant1	5580	18.785	5570.549	5589.334		
	Ant2	5580	18.760	5570.587	5589.347		
	Ant1	5700	18.662	5690.583	5709.245		
	Ant2	5700	18.706	5690.438	5709.144		
	Ant1	5745	18.689	5735.592	5754.281		
	Ant2	5745	18.743	5735.571	5754.314		
	Ant1	5785	18.714	5775.549	5794.263		
	Ant2	5785	18.693	5775.580	5794.273		
	Ant1	5825	18.669	5815.614	5834.283		
	Ant2	5825	18.800	5815.480	5834.280		
	Ant1	5190	35.982	5171.933	5207.915		
	Ant2	5190	35.890	5171.964	5207.854		
	Ant1	5230	35.940	5211.909	5247.849		
	Ant2	5230	35.822	5211.988	5247.810		
	Ant1	5270	35.818	5252.051	5287.869		
	Ant2	5270	35.946	5252.005	5287.951		
	Ant1	5310	35.900	5291.996	5327.896		
	Ant2	5310	35.883	5292.002	5327.885		
11AC40SISO	Ant1	5510	36.015	5491.883	5527.898		
1140400100	Ant2	5510	35.828	5492.097	5527.925		
	Ant1	5550	35.931	5531.948	5567.879		
	Ant2	5550	36.003	5531.952	5567.955		
	Ant1	5670	35.910	5651.939	5687.849		
	Ant2	5670	36.069	5651.923	5687.992		
	Ant1	5755	35.935	5736.972	5772.907		
	Ant2	5755	35.904	5736.993	5772.897		
	Ant1	5795	35.848	5776.963	5812.811		
	Ant2	5795	35.832	5776.950	5812.782		
	Ant1	5210	75.123	5172.332	5247.455		
	Ant2	5210	75.097	5172.332	5247.429		
	Ant1	5290	75.029	5252.462	5327.491		
11 1 0000100	Ant2	5290	75.067	5252.450	5327.517		
11AC80SISO	Ant1	5530	75.118	5492.436	5567.554		
	Ant2	5530	75.063	5492.538	5567.601		
	Ant1	5775	75.117	5737.373	5812.490		
	Ant2	5775	75.141	5737.359	5812.500		
	Ant1	5180	19.048	5170.360	5189.408		
	Ant2	5180	19.069	5170.376	5189.445		
	Ant1	5200	19.152	5190.323	5209.475		
11AX20SISO	Ant2	5200	19.096	5190.364	5209.460		
	Ant1	5240	18.876	5230.469	5249.345		
	Ant2	5240	18.875	5230.443	5249.318		
	Ant1	5260	19.054	5250.369	5269.423		
	i	i	1	1	1	1	l

Ant1       5280       19.082       52         Ant2       5280       19.151       52         Ant1       5320       19.099       53         Ant2       5320       19.181       53         Ant1       5500       19.146       549         Ant2       5500       19.205       549         Ant1       5580       19.055       55         Ant2       5580       19.230       55         Ant1       5700       19.100       569         Ant2       5700       19.235       569         Ant1       5745       19.101       573         Ant2       5745       19.179       573         Ant1       5785       19.129       573         Ant2       5785       19.162       573         Ant1       5825       19.098       583	270.372 270.288 310.383 310.333 490.348 490.345 570.373 570.292 690.344 690.212 735.334 735.311 775.292 775.335	5269.501 5289.439 5329.482 5329.514 5509.494 5509.550 5589.428 5709.444 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	 
Ant2       5280       19.151       52         Ant1       5320       19.099       53         Ant2       5320       19.181       53         Ant1       5500       19.146       549         Ant2       5500       19.205       549         Ant1       5580       19.055       55         Ant2       5580       19.230       55         Ant1       5700       19.100       569         Ant2       5700       19.235       569         Ant1       5745       19.101       573         Ant2       5745       19.179       573         Ant1       5785       19.129       573         Ant2       5785       19.162       573         Ant1       5825       19.098       583	270.288 310.383 310.333 490.348 490.345 570.373 570.292 690.344 690.212 735.334 735.311 775.292 775.335 815.348	5289.439 5329.482 5329.514 5509.494 5589.428 5709.444 5709.447 5754.435 5754.490 5794.421 5794.455	     
Ant1 5320 19.099 53  Ant2 5320 19.181 53  Ant1 5500 19.146 549  Ant2 5500 19.205 549  Ant1 5580 19.055 55  Ant2 5580 19.230 55  Ant1 5700 19.100 569  Ant2 5700 19.235 569  Ant1 5745 19.101 573  Ant2 5745 19.179 573  Ant1 5785 19.129 573  Ant2 5785 19.162 573  Ant1 5825 19.098 583	310.383 310.333 490.348 490.345 570.373 570.292 690.344 690.212 735.334 735.311 775.292 775.335 815.348	5329.482 5329.514 5509.494 5509.550 5589.428 5709.447 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	     
Ant2       5320       19.181       53         Ant1       5500       19.146       545         Ant2       5500       19.205       545         Ant1       5580       19.055       55         Ant2       5580       19.230       55         Ant1       5700       19.100       565         Ant2       5700       19.235       565         Ant1       5745       19.101       573         Ant2       5745       19.179       573         Ant1       5785       19.129       573         Ant2       5785       19.162       573         Ant1       5825       19.098       583	310.333 490.348 490.345 570.373 570.292 690.344 690.212 735.334 735.311 775.292 775.335 815.348	5329.514 5509.494 5509.550 5589.428 5589.522 5709.444 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	    
Ant1       5500       19.146       549         Ant2       5500       19.205       549         Ant1       5580       19.055       557         Ant2       5580       19.230       557         Ant1       5700       19.100       569         Ant2       5700       19.235       569         Ant1       5745       19.101       577         Ant2       5745       19.179       577         Ant1       5785       19.129       577         Ant2       5785       19.162       577         Ant1       5825       19.098       581	490.348 490.345 570.373 570.292 690.344 690.212 735.334 735.311 775.292 775.335 815.357 815.348	5509.494 5509.550 5589.522 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	    
Ant2     5500     19.205     549       Ant1     5580     19.055     550       Ant2     5580     19.230     550       Ant1     5700     19.100     569       Ant2     5700     19.235     569       Ant1     5745     19.101     570       Ant2     5745     19.179     570       Ant1     5785     19.129     570       Ant2     5785     19.162     570       Ant1     5825     19.098     580	490.345 570.373 570.292 690.344 690.212 735.334 735.311 775.292 775.335 815.357 815.348	5509.550 5589.428 5589.522 5709.444 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	      
Ant1 5580 19.055 55  Ant2 5580 19.230 55  Ant1 5700 19.100 569  Ant2 5700 19.235 569  Ant1 5745 19.101 573  Ant2 5745 19.179 573  Ant1 5785 19.129 577  Ant2 5785 19.162 577  Ant1 5825 19.098 58	570.373 570.292 690.344 690.212 735.334 735.311 775.292 775.335 815.357 815.348	5589.428 5589.522 5709.444 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	    
Ant2       5580       19.230       55         Ant1       5700       19.100       568         Ant2       5700       19.235       568         Ant1       5745       19.101       573         Ant2       5745       19.179       573         Ant1       5785       19.129       573         Ant2       5785       19.162       573         Ant1       5825       19.098       583	570.292 690.344 690.212 735.334 735.311 775.292 775.335 815.357 815.348	5589.522 5709.444 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	 
Ant1     5700     19.100     569       Ant2     5700     19.235     569       Ant1     5745     19.101     573       Ant2     5745     19.179     573       Ant1     5785     19.129     573       Ant2     5785     19.162     573       Ant1     5825     19.098     583	690.344 690.212 735.334 735.311 775.292 775.335 815.357 815.348	5709.444 5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	 
Ant2     5700     19.235     569       Ant1     5745     19.101     573       Ant2     5745     19.179     573       Ant1     5785     19.129     573       Ant2     5785     19.162     573       Ant1     5825     19.098     583	690.212 735.334 735.311 775.292 775.335 815.357 815.348	5709.447 5754.435 5754.490 5794.421 5794.497 5834.455	 
Ant1     5745     19.101     573       Ant2     5745     19.179     573       Ant1     5785     19.129     573       Ant2     5785     19.162     573       Ant1     5825     19.098     583	735.334 735.311 775.292 775.335 815.357 815.348	5754.435 5754.490 5794.421 5794.497 5834.455	 
Ant2     5745     19.179     573       Ant1     5785     19.129     573       Ant2     5785     19.162     573       Ant1     5825     19.098     583	735.311 775.292 775.335 815.357 815.348	5754.490 5794.421 5794.497 5834.455	
Ant1     5785     19.129     577       Ant2     5785     19.162     577       Ant1     5825     19.098     583	775.292 775.335 815.357 815.348	5794.421 5794.497 5834.455	 
Ant2     5785     19.162     57       Ant1     5825     19.098     58	775.335 815.357 815.348	5794.497 5834.455	 
Ant1 5825 19.098 58	815.357 815.348	5834.455	
	815.348		
A 10   FOOT   10 100   FO		5834.474	
Ant2 5825 19.126 58	171.080		 
Ant1 5190 37.578 51		5208.658	 
Ant2 5190 37.429 51	171.197	5208.626	 
Ant1 5230 37.502 52	211.194	5248.696	 
Ant2 5230 37.417 52	211.175	5248.592	 
Ant1 5270 37.457 525	251.255	5288.712	 
Ant2 5270 37.598 529	251.042	5288.640	 
Ant1 5310 37.470 529	291.220	5328.690	 
Ant2 5310 37.496 529	291.170	5328.666	 
11AX40SISO Ant1 5510 37.437 549	491.275	5528.712	 
	491.262	5528.736	 
Ant1 5550 37.602 553	531.159	5568.761	 
Ant2 5550 37.562 55	531.115	5568.677	 
Ant1 5670 37.556 568	651.217	5688.773	 
Ant2 5670 37.423 568	651.222	5688.645	 
Ant1 5755 37.585 573	736.082	5773.667	 
Ant2 5755 37.553 573	736.162	5773.715	 
Ant1 5795 37.495 57	776.136	5813.631	 -
Ant2 5795 37.549 57	776.140	5813.689	 
Ant1 5210 77.032 51	171.451	5248.483	 -
Ant2 5210 76.803 51	171.543	5248.346	 
Ant1 5290 76.684 529	251.677	5328.361	 
Ant2 5290 76.749 529	251.744	5328.493	 
11AX80SISO Ant1 5530 76.971 549	491.440	5568.411	 
Ant2 5530 76.708 549	491.670	5568.378	 
Ant1 5775 76.691 573	736.559	5813.250	 
Ant2 5775 76.743 573	736.635	5813.378	 

	Ant1	5100	10 760	5170 522	5190 20F		
	Ant1	5180	18.762	5170.533	5189.295		
	Ant2	5180	18.431	5170.692	5189.123		
	Ant1	5200	18.759	5190.568	5209.327		
	Ant2	5200	18.431	5190.595	5209.026		
	Ant1	5240	17.770	5231.046	5248.816		
	Ant2	5240	17.873	5230.946	5248.819		
	Ant1	5260	18.659	5250.622	5269.281		
	Ant2	5260	18.748	5250.898	5269.646		
	Ant1	5280	18.742	5270.605	5289.347		
	Ant2	5280	18.361	5270.865	5289.226		
	Ant1	5320	18.788	5310.567	5329.355		
11N20MIMO	Ant2	5320	18.511	5310.491	5329.002		
	Ant1	5500	18.764	5490.654	5509.418		
	Ant2	5500	18.374	5490.687	5509.061		
	Ant1	5580	18.738	5570.579	5589.317		
	Ant2	5580	18.710	5570.879	5589.589		
	Ant1	5700	18.844	5690.546	5709.390		
	Ant2	5700	18.371	5690.846	5709.217		
	Ant1	5745	18.692	5735.560	5754.252		
	Ant2	5745	18.503	5735.515	5754.018		
	Ant1	5785	18.781	5775.458	5794.239		
	Ant2	5785	18.444	5775.827	5794.271		
	Ant1	5825	18.714	5815.503	5834.217		
	Ant2	5825	18.443	5815.746	5834.189		
	Ant1	5190	35.858	5171.948	5207.806		
	Ant2	5190	35.869	5171.922	5207.791		
	Ant1	5230	35.915	5211.931	5247.846		
	Ant2	5230	36.009	5211.761	5247.770		
	Ant1	5270	35.980	5252.029	5288.009		
	Ant2	5270	35.634	5252.471	5288.105		
	Ant1	5310	35.930	5291.988	5327.918		
	Ant2	5310	35.882	5291.754	5327.636		
11   1   1   1   1   1   1   1   1   1	Ant1	5510	35.871	5492.026	5527.897		
11N40MIMO	Ant2	5510	35.871	5491.734	5527.605		
	Ant1	5550	36.024	5531.966	5567.990		
	Ant2	5550	36.320	5531.766	5568.086		-
	Ant1	5670	36.034	5651.909	5687.943		
	Ant2	5670	36.403	5651.772	5688.175		
	Ant1	5755	35.895	5736.907	5772.802		
	Ant2	5755	35.888	5736.656	5772.544		
	Ant1	5795	35.879	5776.924	5812.803		
	Ant2	5795	35.883	5777.214	5813.097		
11AC20MIMO	Ant1	5180	18.808	5170.461	5189.269		
<u> </u>	<u>I</u>	<u> </u>	<u> </u>	<u>l</u>	<u> </u>	<u>l</u>	<u> </u>

		T		ı		ı	1
	Ant2	5180	18.281	5170.781	5189.062		
	Ant1	5200	18.723	5190.495	5209.218		
	Ant2	5200	18.451	5190.614	5209.065		
	Ant1	5240	17.815	5231.024	5248.839		
	Ant2	5240	17.812	5230.973	5248.785		
	Ant1	5260	18.775	5250.604	5269.379		
	Ant2	5260	18.703	5250.910	5269.613		
	Ant1	5280	18.758	5270.608	5289.366		
	Ant2	5280	18.344	5270.901	5289.245		
	Ant1	5320	18.636	5310.702	5329.338		
	Ant2	5320	18.473	5310.576	5329.049		
	Ant1	5500	18.781	5490.647	5509.428		
	Ant2	5500	18.558	5490.642	5509.200		
	Ant1	5580	18.989	5570.173	5589.162		
	Ant2	5580	18.362	5570.725	5589.087		
	Ant1	5700	18.803	5690.527	5709.330		
	Ant2	5700	18.353	5690.868	5709.221		
	Ant1	5745	18.724	5735.499	5754.223		
	Ant2	5745	18.343	5735.622	5753.965		
	Ant1	5785	18.823	5775.521	5794.344		
	Ant2	5785	18.409	5775.849	5794.258		
	Ant1	5825	18.917	5815.480	5834.397		
	Ant2	5825	18.500	5815.714	5834.214		
	Ant1	5190	35.863	5171.987	5207.850		
	Ant2	5190	35.837	5171.943	5207.780		
	Ant1	5230	35.862	5211.971	5247.833		
	Ant2	5230	36.013	5211.745	5247.758		
	Ant1	5270	35.922	5252.000	5287.922		
	Ant2	5270	35.565	5252.504	5288.069		
	Ant1	5310	35.830	5292.026	5327.856		
	Ant2	5310	35.845	5291.813	5327.658		
11 A C 4 O N A I N A O	Ant1	5510	35.905	5492.016	5527.921		
11AC40MIMO	Ant2	5510	35.761	5491.860	5527.621		
	Ant1	5550	36.093	5531.973	5568.066		
	Ant2	5550	36.327	5531.841	5568.168		
	Ant1	5670	35.889	5651.948	5687.837		
	Ant2	5670	36.486	5651.689	5688.175		
	Ant1	5755	35.940	5736.900	5772.840		
	Ant2	5755	35.877	5736.694	5772.571		
	Ant1	5795	35.877	5776.936	5812.813		
	Ant2	5795	35.980	5777.161	5813.141		
44 4 0 0 0 0 4 1 4 4 0	Ant1	5210	75.173	5172.281	5247.454		
11AC80MIMO	Ant2	5210	74.833	5172.075	5246.908		
		1	i	1		1	1