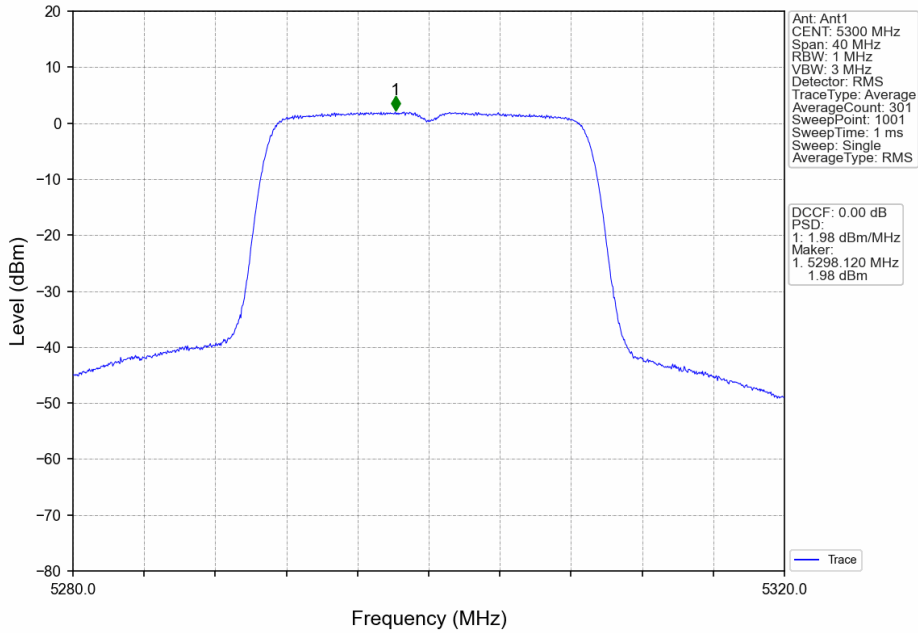
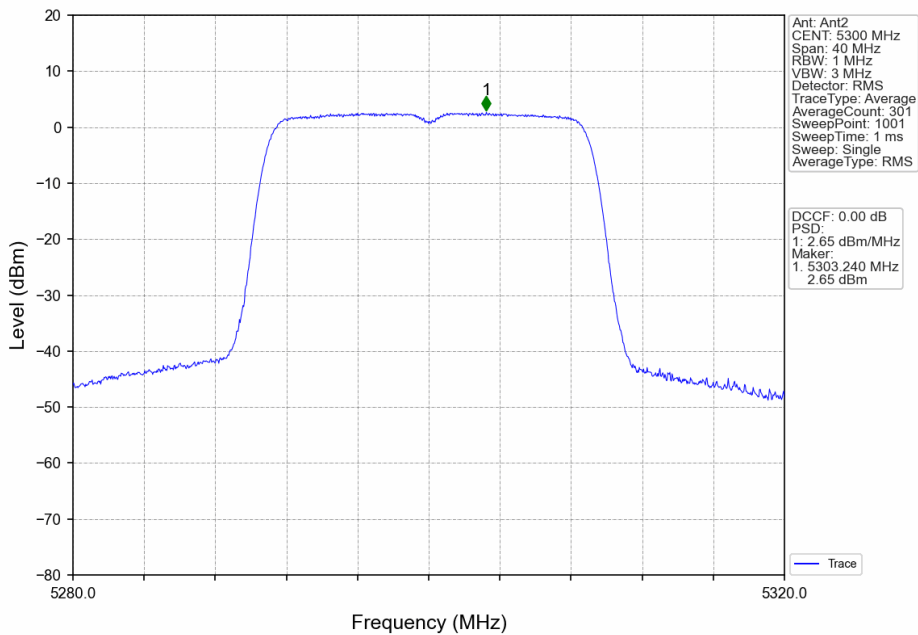


802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant2_NTNV

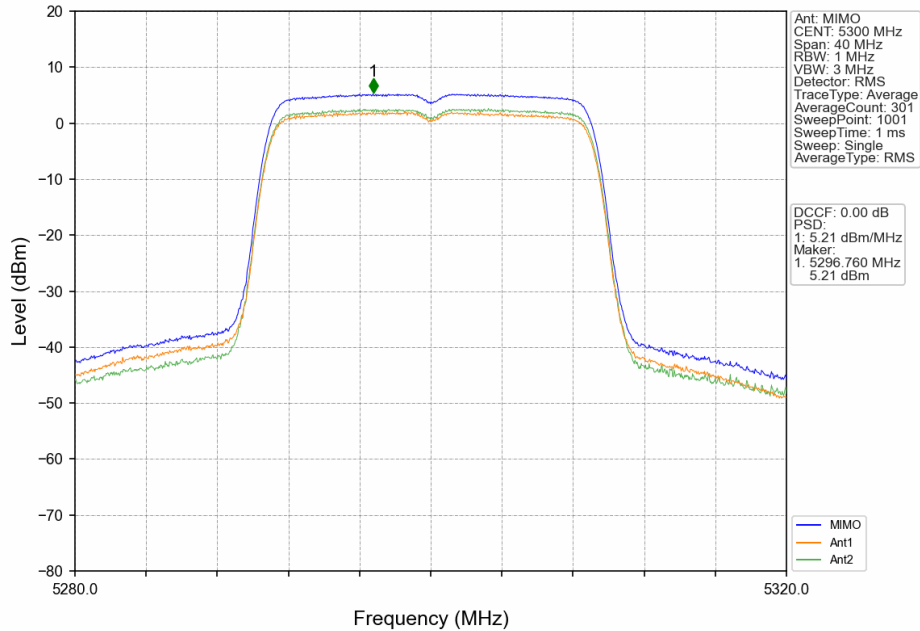


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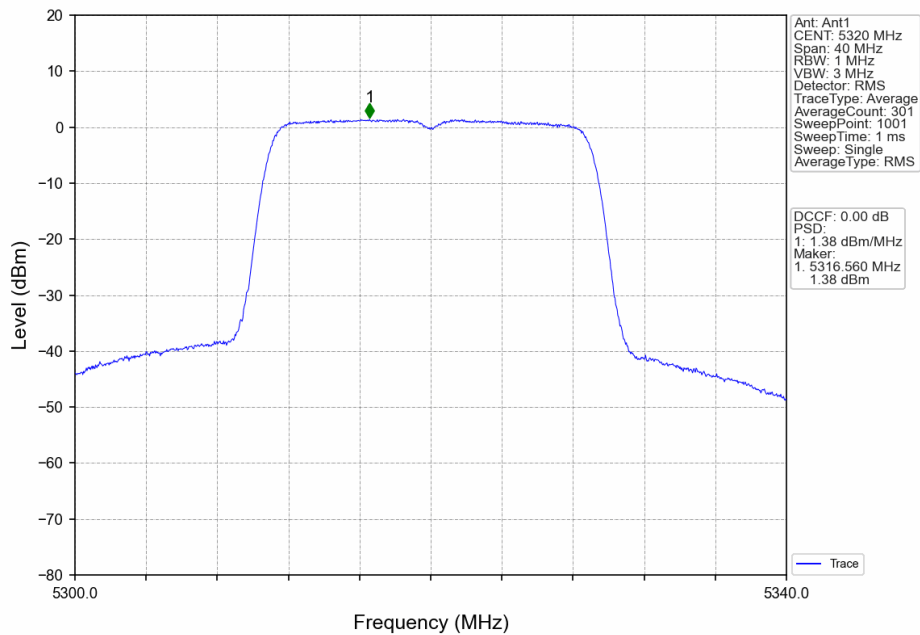
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802.11ac(VHT20)_MCH_5300MHz_MIMO_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV

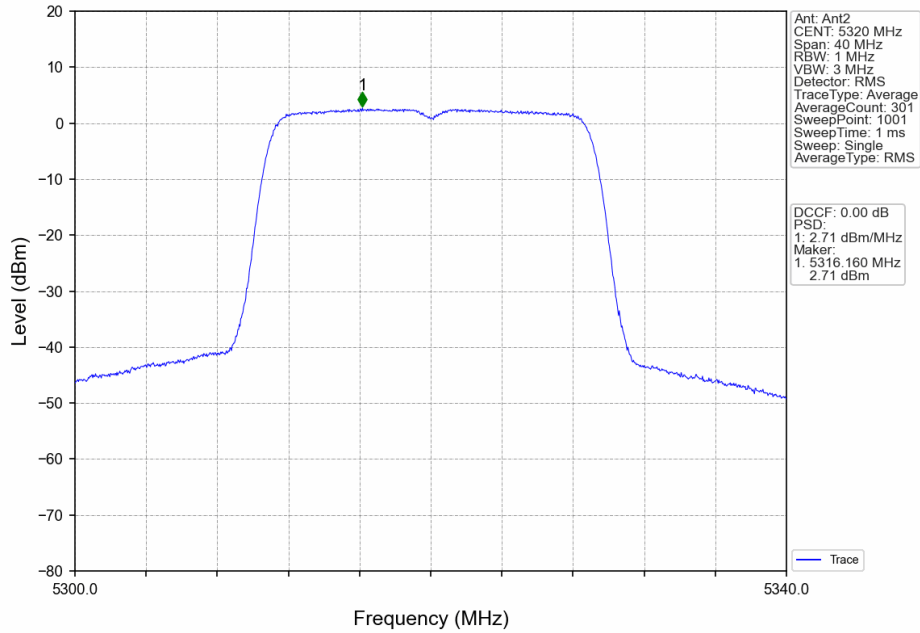


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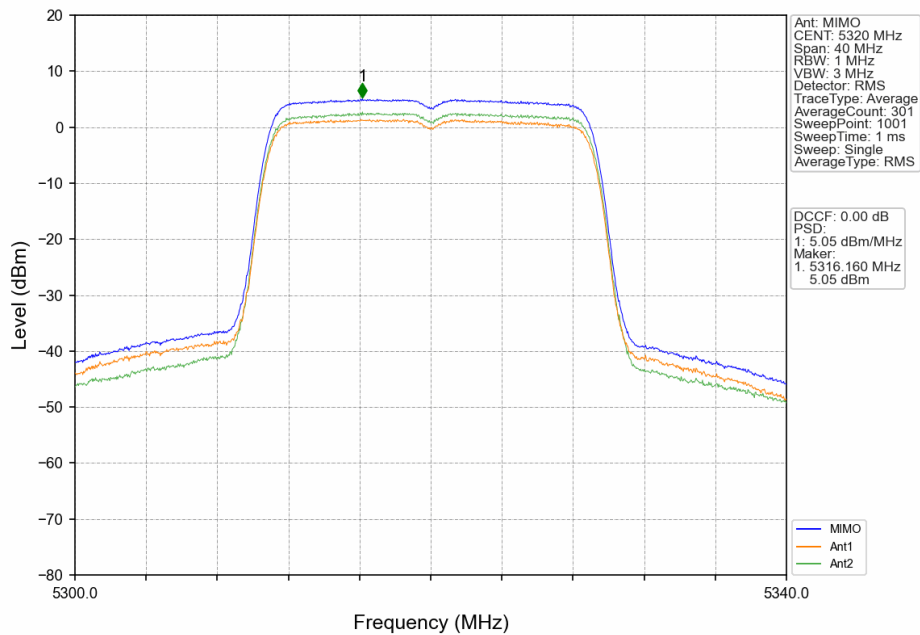
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802.11ac(VHT20)_HCH_5320MHz_Ant2_NTNV



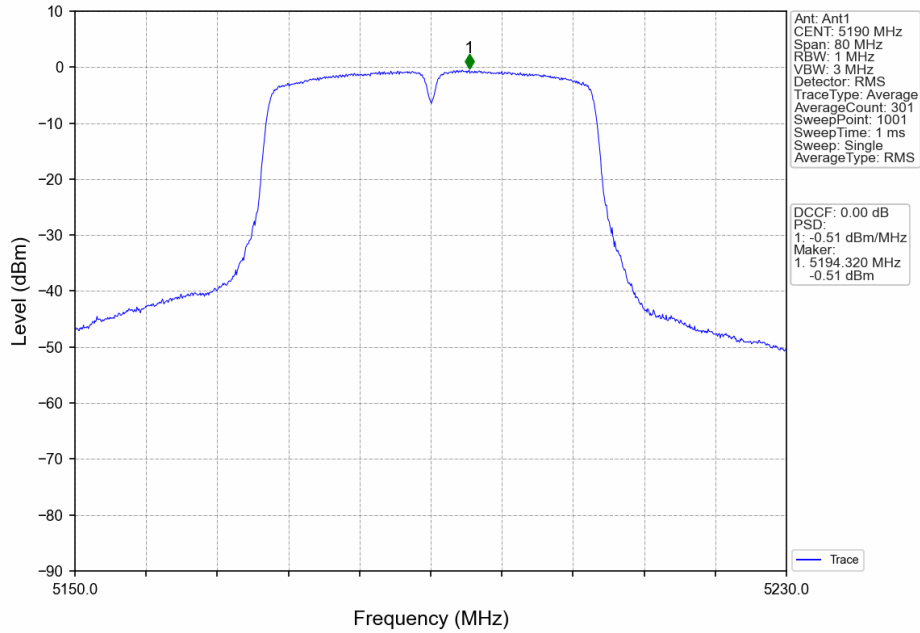
802.11ac(VHT20)_HCH_5320MHz_MIMO_NTNV



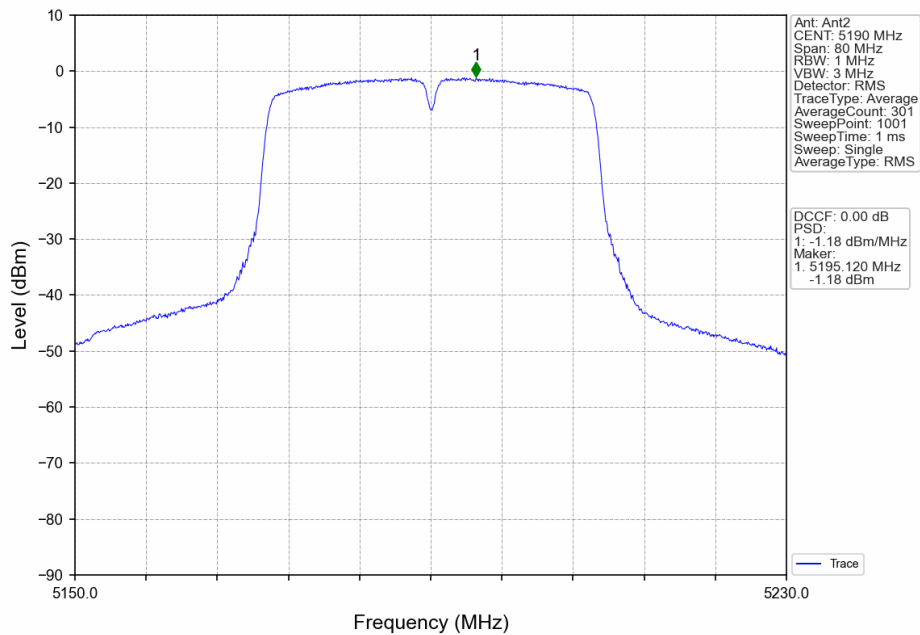
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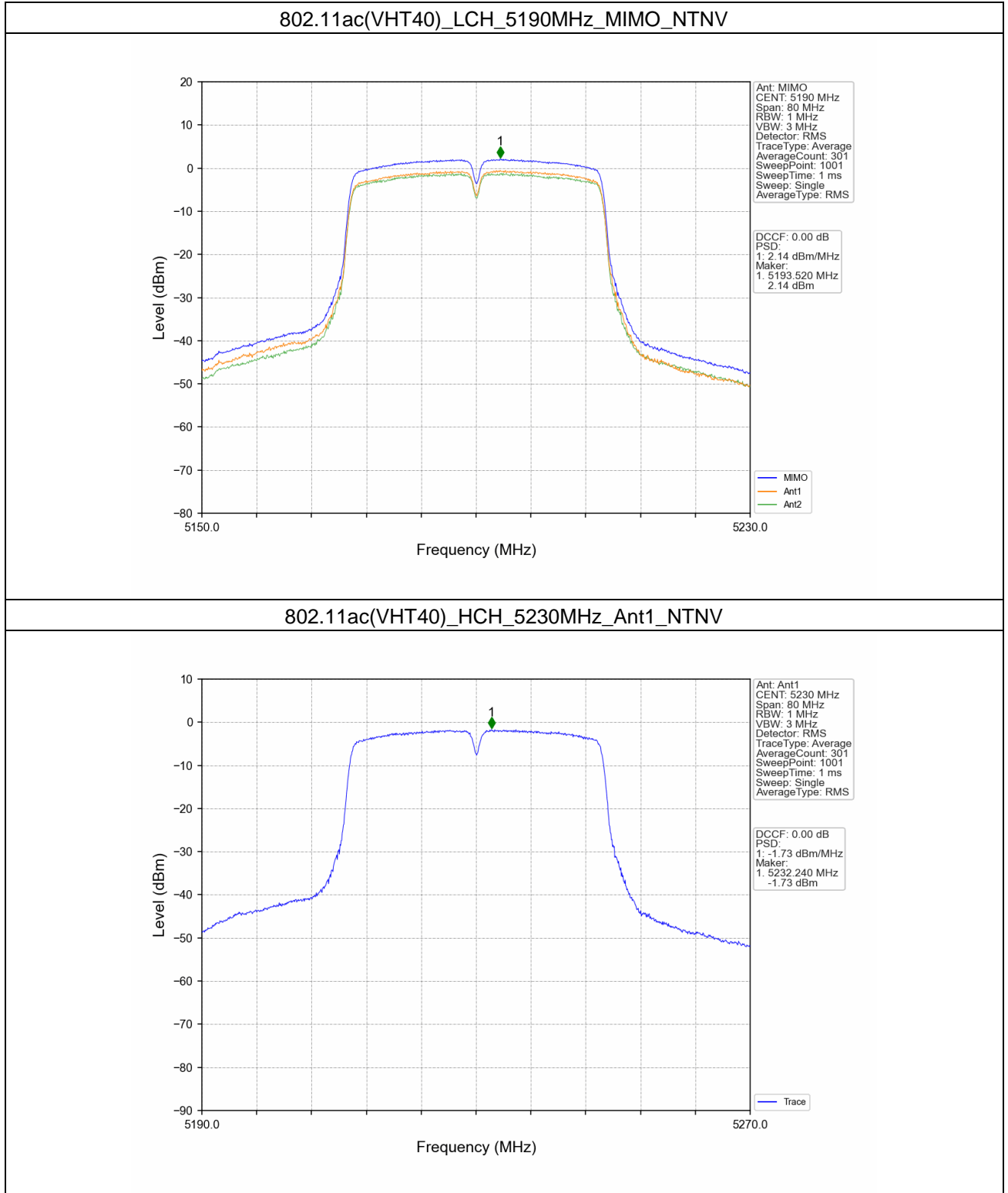
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV

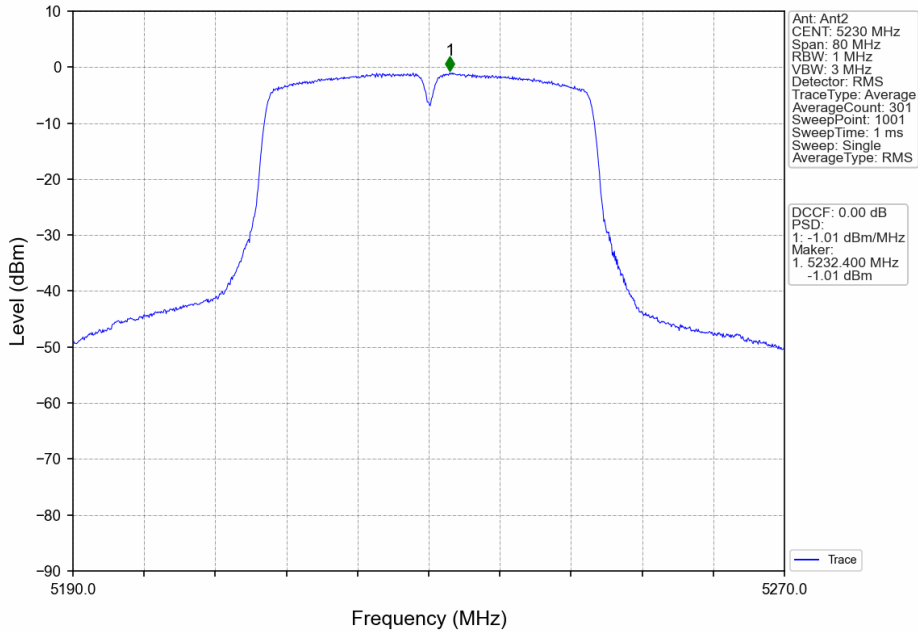


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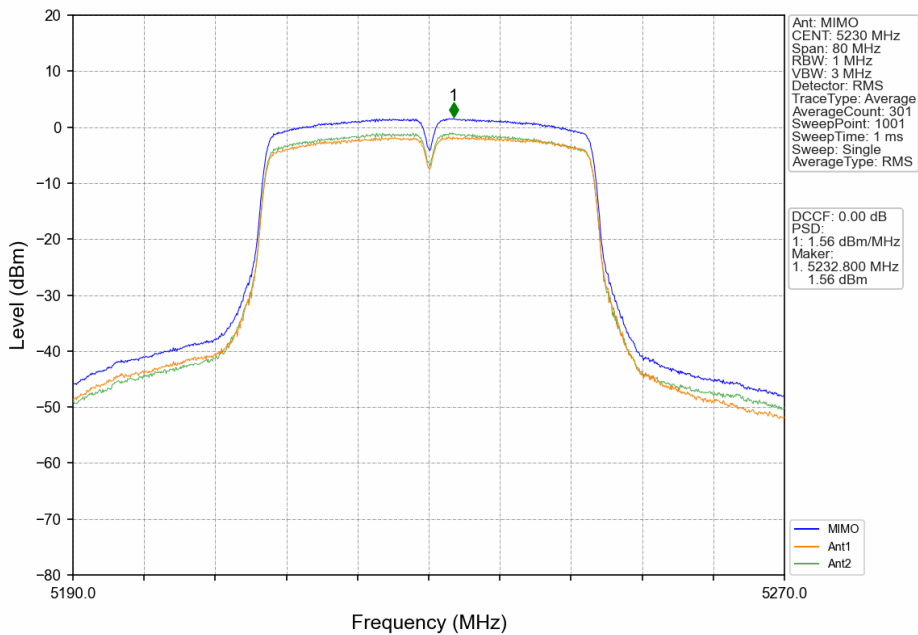


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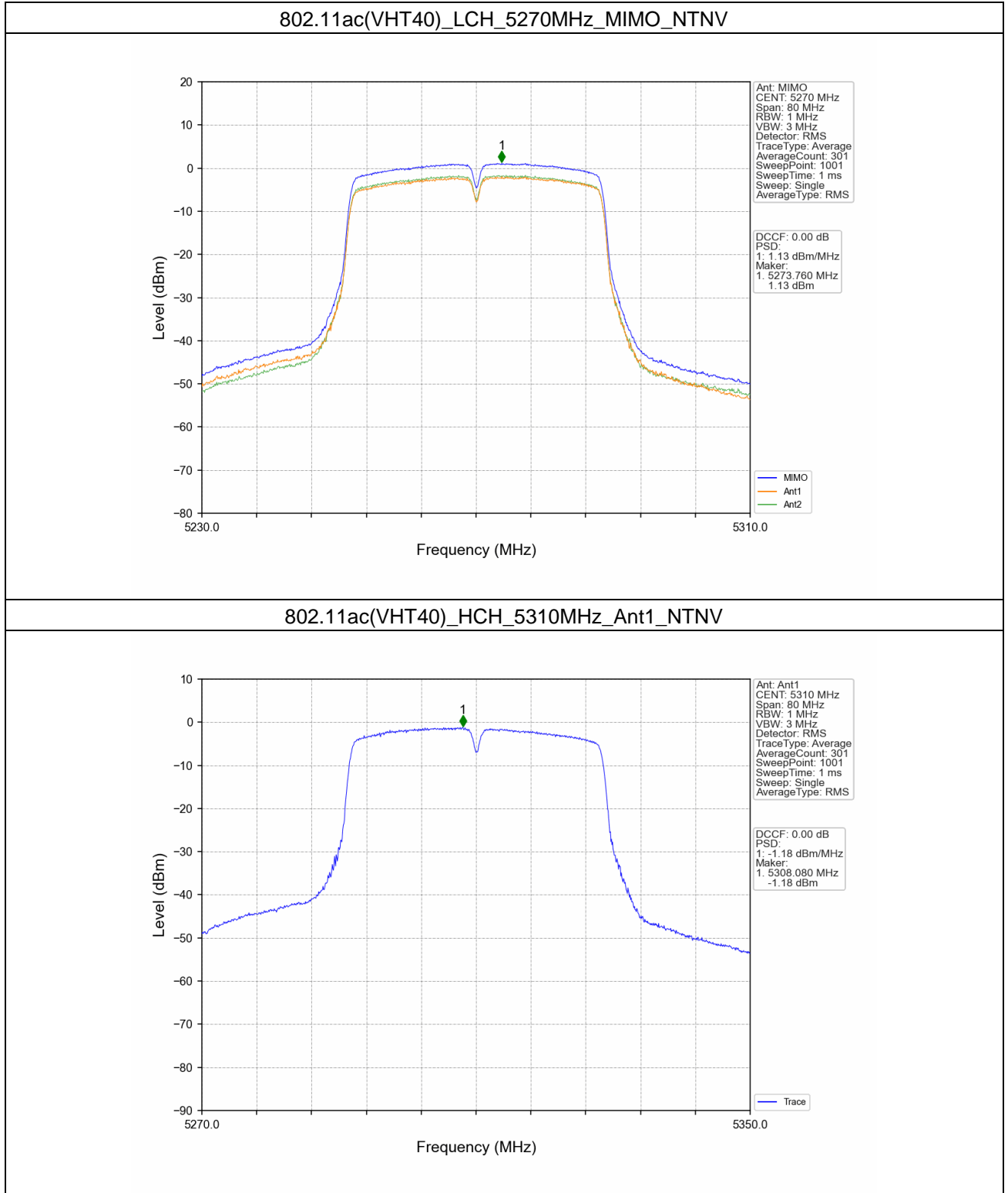
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



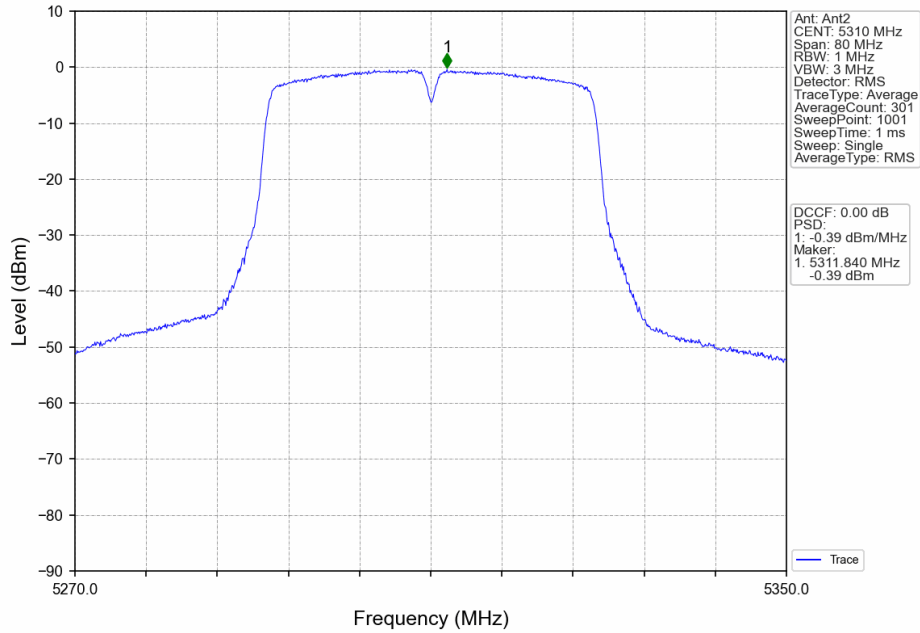
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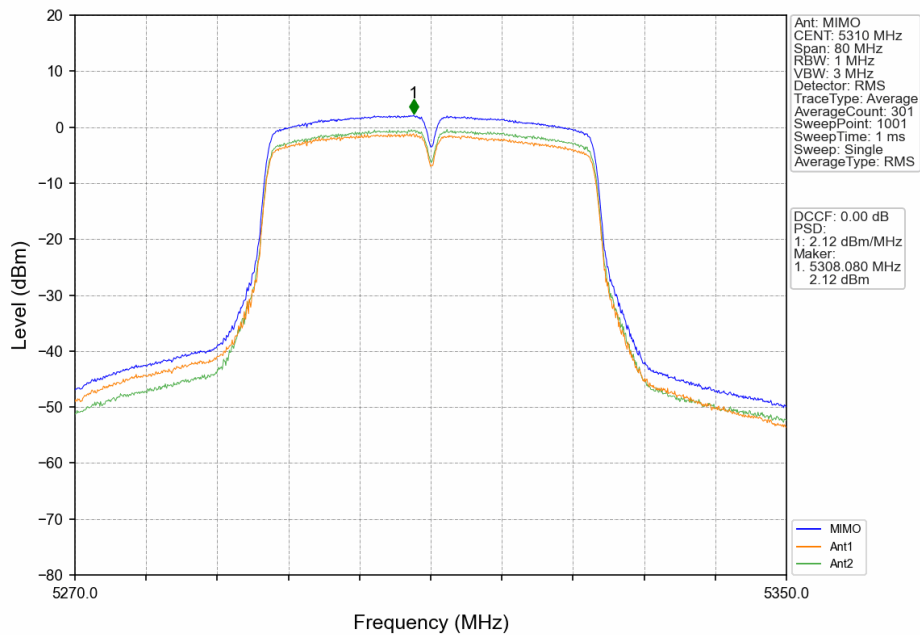
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802.11ac(VHT40)_HCH_5310MHz_Ant2_NTNV



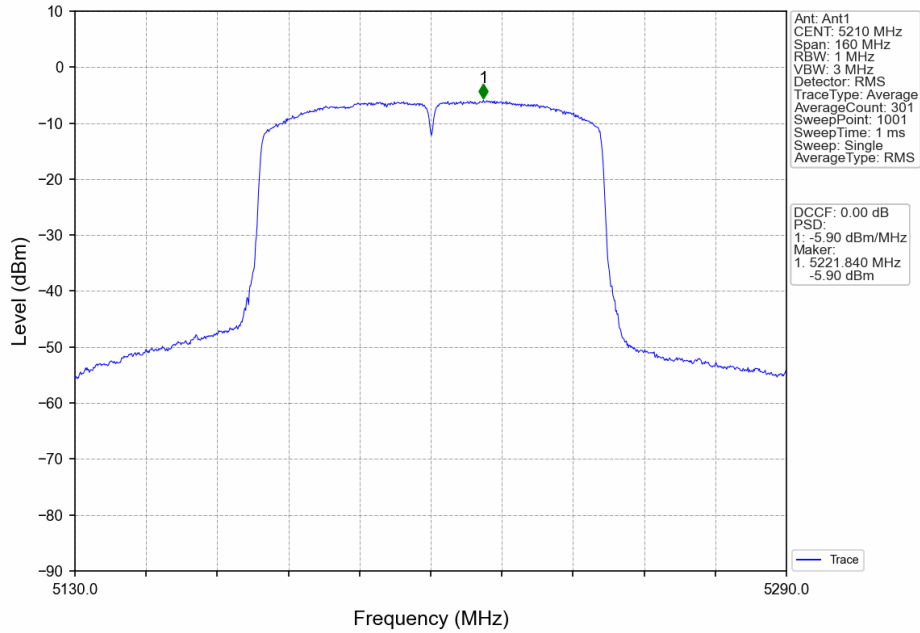
802.11ac(VHT40)_HCH_5310MHz_MIMO_NTNV



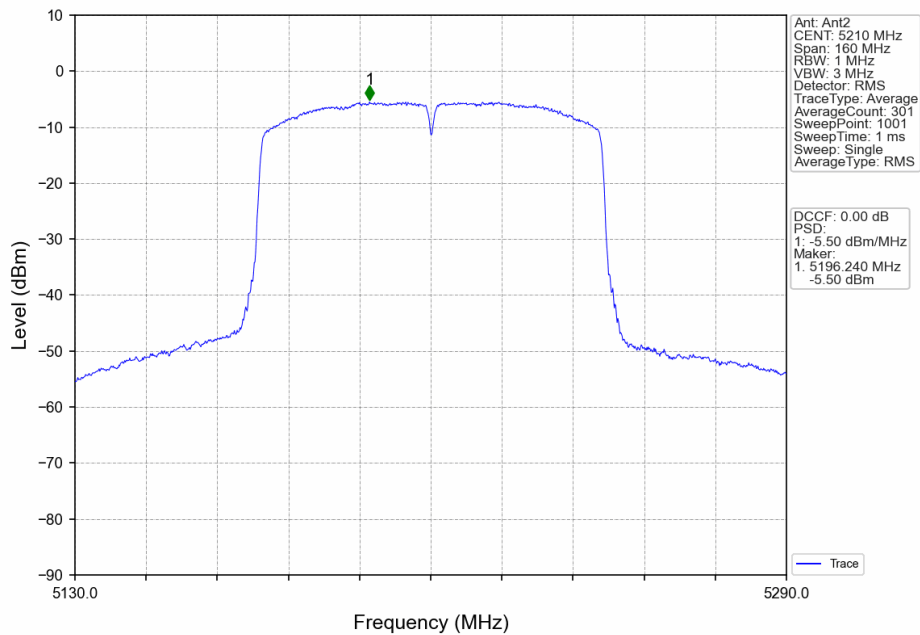
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

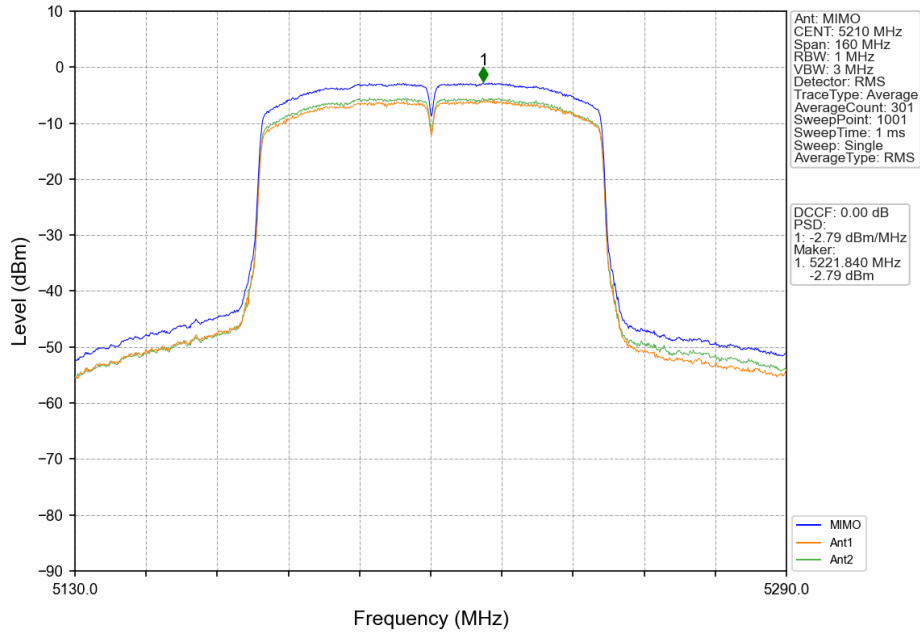


802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV

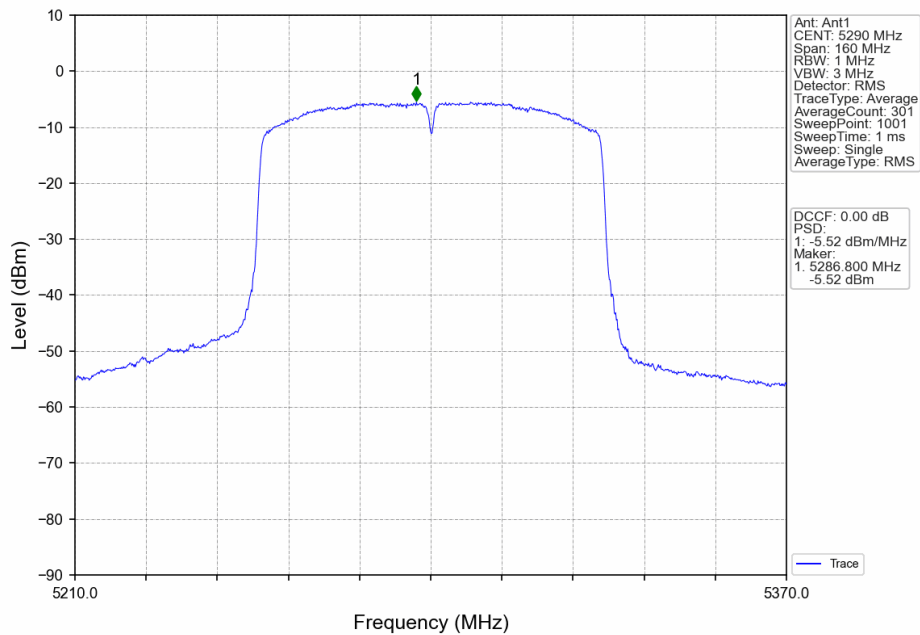


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802.11ac(VHT80)_MCH_5210MHz_MIMO_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

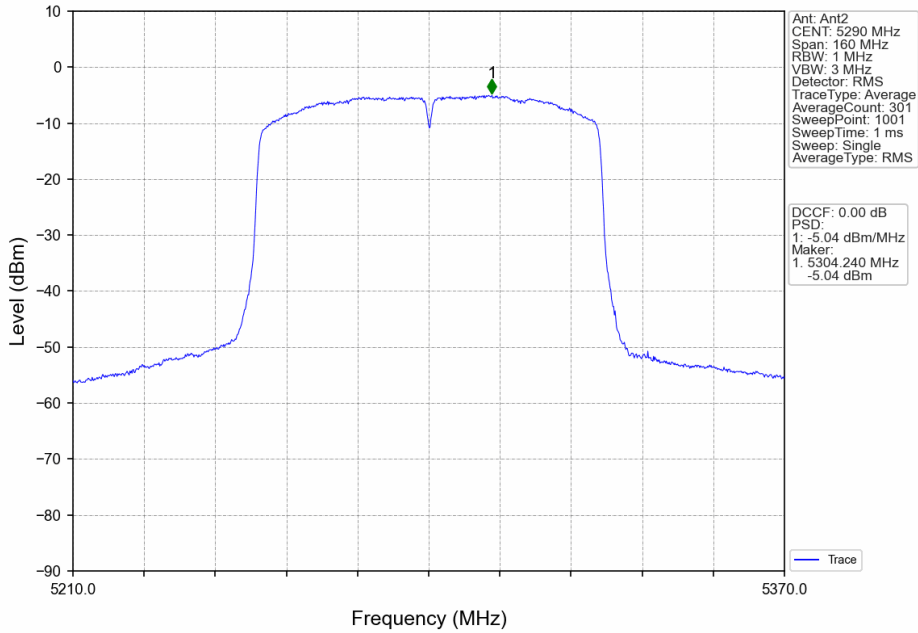


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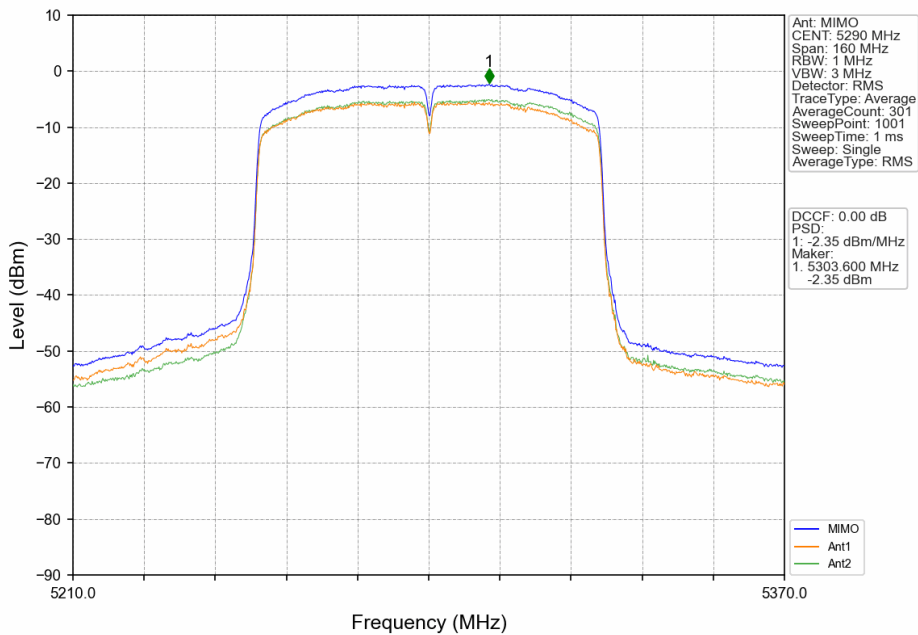
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802.11ac(VHT80)_MCH_5290MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5290MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	6.46	5180.000	5150 to 5250	Pass
				7.6	5180.000	5150 to 5250	Pass
				8.74	5180.000	5150 to 5250	Pass
			-30	7.6	5180.000	5150 to 5250	Pass
				-20	7.6	5180.000	5150 to 5250
			-10	7.6	5180.000	5150 to 5250	Pass
				0	7.6	5180.000	5150 to 5250
			10	7.6	5180.060	5150 to 5250	Pass
				30	7.6	5180.060	5150 to 5250
			40	7.6	5180.040	5150 to 5250	Pass
		50		7.6	5180.020	5150 to 5250	Pass
		5200	20	6.46	5200.040	5150 to 5250	Pass
				7.6	5200.060	5150 to 5250	Pass
				8.74	5200.040	5150 to 5250	Pass
			-30	7.6	5200.000	5150 to 5250	Pass
				-20	7.6	5200.040	5150 to 5250
			-10	7.6	5200.000	5150 to 5250	Pass
				0	7.6	5200.040	5150 to 5250
			10	7.6	5200.040	5150 to 5250	Pass
				30	7.6	5200.020	5150 to 5250
			40	7.6	5200.040	5150 to 5250	Pass
		50		7.6	5200.020	5150 to 5250	Pass
		5240	20	6.46	5240.020	5150 to 5250	Pass
				7.6	5240.060	5150 to 5250	Pass
				8.74	5240.040	5150 to 5250	Pass
			-30	7.6	5240.040	5150 to 5250	Pass
				-20	7.6	5240.040	5150 to 5250
			-10	7.6	5240.020	5150 to 5250	Pass
				0	7.6	5240.040	5150 to 5250
			10	7.6	5240.000	5150 to 5250	Pass



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

			30	7.6	5240.020	5150 to 5250	Pass		
			40	7.6	5240.020	5150 to 5250	Pass		
			50	7.6	5240.060	5150 to 5250	Pass		
		5260	20	6.46	5260.100	5250 to 5350	Pass		
				7.6	5260.060	5250 to 5350	Pass		
				8.74	5260.080	5250 to 5350	Pass		
			-30	7.6	5260.060	5250 to 5350	Pass		
			-20	7.6	5260.060	5250 to 5350	Pass		
			-10	7.6	5260.080	5250 to 5350	Pass		
			0	7.6	5260.080	5250 to 5350	Pass		
			10	7.6	5260.060	5250 to 5350	Pass		
			30	7.6	5260.060	5250 to 5350	Pass		
			40	7.6	5260.080	5250 to 5350	Pass		
			50	7.6	5260.080	5250 to 5350	Pass		
			5300	20	6.46	5300.040	5250 to 5350	Pass	
		7.6			5300.020	5250 to 5350	Pass		
		8.74			5300.020	5250 to 5350	Pass		
		-30		7.6	5300.000	5250 to 5350	Pass		
		-20		7.6	5300.040	5250 to 5350	Pass		
		-10		7.6	5299.980	5250 to 5350	Pass		
		0		7.6	5300.060	5250 to 5350	Pass		
		10		7.6	5300.000	5250 to 5350	Pass		
		30		7.6	5300.020	5250 to 5350	Pass		
		40		7.6	5300.040	5250 to 5350	Pass		
		50	7.6	5300.020	5250 to 5350	Pass			
		5320	20	6.46	5320.000	5250 to 5350	Pass		
				7.6	5319.960	5250 to 5350	Pass		
				8.74	5320.020	5250 to 5350	Pass		
			-30	7.6	5320.020	5250 to 5350	Pass		
			-20	7.6	5319.980	5250 to 5350	Pass		
			-10	7.6	5320.000	5250 to 5350	Pass		
			0	7.6	5319.960	5250 to 5350	Pass		
			10	7.6	5320.020	5250 to 5350	Pass		
			30	7.6	5320.040	5250 to 5350	Pass		
			40	7.6	5320.000	5250 to 5350	Pass		
		50	7.6	5320.020	5250 to 5350	Pass			
		802.11n (HT20)	MIMO	5180	6.46	5180.060	5150 to 5250	Pass	
					20	7.6	5180.020	5150 to 5250	Pass
					8.74	5180.020	5150 to 5250	Pass	
					-30	7.6	5180.040	5150 to 5250	Pass



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

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			-20	7.6	5180.000	5150 to 5250	Pass	
			-10	7.6	5179.980	5150 to 5250	Pass	
			0	7.6	5180.000	5150 to 5250	Pass	
			10	7.6	5180.040	5150 to 5250	Pass	
			30	7.6	5180.040	5150 to 5250	Pass	
			40	7.6	5180.020	5150 to 5250	Pass	
			50	7.6	5180.060	5150 to 5250	Pass	
		5200	20	6.46	5200.040	5150 to 5250	Pass	
				7.6	5200.080	5150 to 5250	Pass	
				8.74	5200.060	5150 to 5250	Pass	
				-30	7.6	5200.040	5150 to 5250	Pass
				-20	7.6	5200.020	5150 to 5250	Pass
				-10	7.6	5200.040	5150 to 5250	Pass
				0	7.6	5200.060	5150 to 5250	Pass
				10	7.6	5200.060	5150 to 5250	Pass
				30	7.6	5200.060	5150 to 5250	Pass
				40	7.6	5200.060	5150 to 5250	Pass
				50	7.6	5200.040	5150 to 5250	Pass
			5240	20	6.46	5240.040	5150 to 5250	Pass
		7.6			5240.040	5150 to 5250	Pass	
		8.74			5240.040	5150 to 5250	Pass	
				-30	7.6	5240.040	5150 to 5250	Pass
				-20	7.6	5240.020	5150 to 5250	Pass
				-10	7.6	5240.040	5150 to 5250	Pass
				0	7.6	5240.040	5150 to 5250	Pass
				10	7.6	5240.020	5150 to 5250	Pass
				30	7.6	5240.000	5150 to 5250	Pass
				40	7.6	5240.000	5150 to 5250	Pass
			50	7.6	5240.040	5150 to 5250	Pass	
		5260	20	6.46	5260.060	5250 to 5350	Pass	
				7.6	5260.060	5250 to 5350	Pass	
				8.74	5260.060	5250 to 5350	Pass	
				-30	7.6	5260.040	5250 to 5350	Pass
				-20	7.6	5260.040	5250 to 5350	Pass
				-10	7.6	5260.020	5250 to 5350	Pass
				0	7.6	5260.040	5250 to 5350	Pass
				10	7.6	5260.040	5250 to 5350	Pass
				30	7.6	5260.040	5250 to 5350	Pass
				40	7.6	5260.020	5250 to 5350	Pass
			50	7.6	5260.020	5250 to 5350	Pass	



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		5300	20	6.46	5300.020	5250 to 5350	Pass	
				7.6	5299.980	5250 to 5350	Pass	
				8.74	5300.040	5250 to 5350	Pass	
			-30	7.6	5300.000	5250 to 5350	Pass	
				-20	7.6	5300.000	5250 to 5350	Pass
					-10	7.6	5300.000	5250 to 5350
				0	7.6	5300.000	5250 to 5350	Pass
				10	7.6	5300.000	5250 to 5350	Pass
				30	7.6	5300.000	5250 to 5350	Pass
				40	7.6	5300.020	5250 to 5350	Pass
		50	7.6	5300.000	5250 to 5350	Pass		
		5320	20	6.46	5320.020	5250 to 5350	Pass	
				7.6	5320.020	5250 to 5350	Pass	
				8.74	5320.020	5250 to 5350	Pass	
			-30	7.6	5320.020	5250 to 5350	Pass	
				-20	7.6	5320.000	5250 to 5350	Pass
					-10	7.6	5320.000	5250 to 5350
				0	7.6	5320.020	5250 to 5350	Pass
				10	7.6	5320.020	5250 to 5350	Pass
				30	7.6	5320.020	5250 to 5350	Pass
40	7.6			5320.020	5250 to 5350	Pass		
50	7.6	5320.040	5250 to 5350	Pass				
802.11n (HT40)	MIMO	5190	20	6.46	5190.120	5150 to 5250	Pass	
				7.6	5190.080	5150 to 5250	Pass	
				8.74	5190.120	5150 to 5250	Pass	
			-30	7.6	5190.080	5150 to 5250	Pass	
				-20	7.6	5190.160	5150 to 5250	Pass
					-10	7.6	5190.160	5150 to 5250
				0	7.6	5190.160	5150 to 5250	Pass
				10	7.6	5190.080	5150 to 5250	Pass
				30	7.6	5190.120	5150 to 5250	Pass
		40		7.6	5190.120	5150 to 5250	Pass	
		50	7.6	5190.080	5150 to 5250	Pass		
		5230	20	6.46	5230.080	5150 to 5250	Pass	
				7.6	5230.080	5150 to 5250	Pass	
				8.74	5230.120	5150 to 5250	Pass	
			-30	7.6	5230.080	5150 to 5250	Pass	
				-20	7.6	5230.120	5150 to 5250	Pass
					-10	7.6	5230.080	5150 to 5250
				0	7.6	5230.080	5150 to 5250	Pass



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

			10	7.6	5230.040	5150 to 5250	Pass		
			30	7.6	5230.080	5150 to 5250	Pass		
			40	7.6	5230.080	5150 to 5250	Pass		
			50	7.6	5230.080	5150 to 5250	Pass		
		5270	20	6.46	5270.120	5250 to 5350	Pass		
				7.6	5270.160	5250 to 5350	Pass		
				8.74	5270.120	5250 to 5350	Pass		
			-30	7.6	5270.080	5250 to 5350	Pass		
			-20	7.6	5270.080	5250 to 5350	Pass		
			-10	7.6	5270.120	5250 to 5350	Pass		
			0	7.6	5270.120	5250 to 5350	Pass		
			10	7.6	5270.120	5250 to 5350	Pass		
			30	7.6	5270.080	5250 to 5350	Pass		
			40	7.6	5270.120	5250 to 5350	Pass		
			50	7.6	5270.120	5250 to 5350	Pass		
			5310	20	6.46	5309.960	5250 to 5350	Pass	
		7.6			5310.000	5250 to 5350	Pass		
		8.74			5310.040	5250 to 5350	Pass		
		-30		7.6	5310.040	5250 to 5350	Pass		
		-20		7.6	5310.040	5250 to 5350	Pass		
		-10		7.6	5310.040	5250 to 5350	Pass		
		0		7.6	5310.040	5250 to 5350	Pass		
		10		7.6	5310.000	5250 to 5350	Pass		
		30		7.6	5310.000	5250 to 5350	Pass		
		40		7.6	5310.040	5250 to 5350	Pass		
		50		7.6	5309.960	5250 to 5350	Pass		
		802.11ac (VHT20)		MIMO	5180	20	6.46	5180.020	5150 to 5250
			7.6				5180.060	5150 to 5250	Pass
			8.74				5180.020	5150 to 5250	Pass
			-30			7.6	5180.040	5150 to 5250	Pass
			-20			7.6	5180.040	5150 to 5250	Pass
			-10			7.6	5180.060	5150 to 5250	Pass
			0			7.6	5180.020	5150 to 5250	Pass
			10			7.6	5180.040	5150 to 5250	Pass
			30			7.6	5180.020	5150 to 5250	Pass
			40		7.6	5180.000	5150 to 5250	Pass	
50	7.6		5180.000		5150 to 5250	Pass			
5200	20		6.46		5200.060	5150 to 5250	Pass		
		7.6	5200.060	5150 to 5250	Pass				
		8.74	5200.000	5150 to 5250	Pass				



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		5200	-30	7.6	5200.080	5150 to 5250	Pass
			-20	7.6	5199.980	5150 to 5250	Pass
			-10	7.6	5200.040	5150 to 5250	Pass
			0	7.6	5200.060	5150 to 5250	Pass
			10	7.6	5200.020	5150 to 5250	Pass
			30	7.6	5200.020	5150 to 5250	Pass
			40	7.6	5199.980	5150 to 5250	Pass
			50	7.6	5200.040	5150 to 5250	Pass
		5240	20	6.46	5240.040	5150 to 5250	Pass
				7.6	5240.040	5150 to 5250	Pass
				8.74	5240.040	5150 to 5250	Pass
			-30	7.6	5240.020	5150 to 5250	Pass
			-20	7.6	5240.020	5150 to 5250	Pass
			-10	7.6	5240.000	5150 to 5250	Pass
			0	7.6	5240.000	5150 to 5250	Pass
			10	7.6	5240.000	5150 to 5250	Pass
			30	7.6	5239.980	5150 to 5250	Pass
			40	7.6	5240.020	5150 to 5250	Pass
			50	7.6	5240.020	5150 to 5250	Pass
			5260	20	6.46	5260.040	5250 to 5350
		7.6			5260.040	5250 to 5350	Pass
		8.74			5260.040	5250 to 5350	Pass
		-30		7.6	5260.040	5250 to 5350	Pass
		-20		7.6	5260.060	5250 to 5350	Pass
		-10		7.6	5260.060	5250 to 5350	Pass
		0		7.6	5260.080	5250 to 5350	Pass
		10		7.6	5260.060	5250 to 5350	Pass
		30		7.6	5260.060	5250 to 5350	Pass
		40		7.6	5260.040	5250 to 5350	Pass
		5300	20	6.46	5300.000	5250 to 5350	Pass
				7.6	5299.980	5250 to 5350	Pass
				8.74	5300.000	5250 to 5350	Pass
			-30	7.6	5300.020	5250 to 5350	Pass
			-20	7.6	5300.000	5250 to 5350	Pass
			-10	7.6	5300.020	5250 to 5350	Pass
			0	7.6	5300.020	5250 to 5350	Pass
10	7.6		5300.020	5250 to 5350	Pass		
30	7.6		5299.980	5250 to 5350	Pass		
40	7.6		5300.020	5250 to 5350	Pass		



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		5320	50	7.6	5300.000	5250 to 5350	Pass
			20	6.46	5320.000	5250 to 5350	Pass
				7.6	5319.980	5250 to 5350	Pass
				8.74	5320.020	5250 to 5350	Pass
			-30	7.6	5320.020	5250 to 5350	Pass
			-20	7.6	5319.960	5250 to 5350	Pass
			-10	7.6	5320.000	5250 to 5350	Pass
			0	7.6	5320.020	5250 to 5350	Pass
			10	7.6	5319.960	5250 to 5350	Pass
			30	7.6	5320.000	5250 to 5350	Pass
40	7.6	5320.020	5250 to 5350	Pass			
50	7.6	5320.000	5250 to 5350	Pass			
802.11ac (VHT40)	MIMO	5190	20	6.46	5190.120	5150 to 5250	Pass
				7.6	5190.080	5150 to 5250	Pass
				8.74	5190.040	5150 to 5250	Pass
			-30	7.6	5190.160	5150 to 5250	Pass
			-20	7.6	5189.960	5150 to 5250	Pass
			-10	7.6	5190.080	5150 to 5250	Pass
			0	7.6	5190.080	5150 to 5250	Pass
			10	7.6	5190.040	5150 to 5250	Pass
			30	7.6	5190.120	5150 to 5250	Pass
			40	7.6	5190.120	5150 to 5250	Pass
		50	7.6	5190.040	5150 to 5250	Pass	
		5230	20	6.46	5230.000	5150 to 5250	Pass
				7.6	5230.080	5150 to 5250	Pass
				8.74	5230.000	5150 to 5250	Pass
			-30	7.6	5230.040	5150 to 5250	Pass
			-20	7.6	5230.040	5150 to 5250	Pass
			-10	7.6	5230.040	5150 to 5250	Pass
			0	7.6	5230.040	5150 to 5250	Pass
			10	7.6	5230.040	5150 to 5250	Pass
			30	7.6	5230.000	5150 to 5250	Pass
			40	7.6	5230.040	5150 to 5250	Pass
		50	7.6	5230.080	5150 to 5250	Pass	
		5270	20	6.46	5270.000	5250 to 5350	Pass
				7.6	5270.080	5250 to 5350	Pass
				8.74	5270.080	5250 to 5350	Pass
			-30	7.6	5270.080	5250 to 5350	Pass
			-20	7.6	5270.080	5250 to 5350	Pass
			-10	7.6	5270.080	5250 to 5350	Pass



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		5310	0	7.6	5270.080	5250 to 5350	Pass			
			10	7.6	5270.080	5250 to 5350	Pass			
			30	7.6	5270.120	5250 to 5350	Pass			
			40	7.6	5270.120	5250 to 5350	Pass			
			50	7.6	5270.120	5250 to 5350	Pass			
		5310	20	6.46	5310.080	5250 to 5350	Pass			
				7.6	5310.000	5250 to 5350	Pass			
				8.74	5310.040	5250 to 5350	Pass			
			-30	7.6	5310.000	5250 to 5350	Pass			
			-20	7.6	5310.120	5250 to 5350	Pass			
			-10	7.6	5310.120	5250 to 5350	Pass			
			0	7.6	5310.040	5250 to 5350	Pass			
			10	7.6	5310.120	5250 to 5350	Pass			
			30	7.6	5310.040	5250 to 5350	Pass			
			40	7.6	5310.080	5250 to 5350	Pass			
			50	7.6	5310.040	5250 to 5350	Pass			
			802.11ac (VHT80)	MIMO	5210	20	6.46	5210.075	5150 to 5250	Pass
							7.6	5210.075	5150 to 5250	Pass
							8.74	5210.000	5150 to 5250	Pass
						-30	7.6	5210.075	5150 to 5250	Pass
-20	7.6	5210.075				5150 to 5250	Pass			
-10	7.6	5210.150				5150 to 5250	Pass			
0	7.6	5210.150				5150 to 5250	Pass			
10	7.6	5210.000				5150 to 5250	Pass			
30	7.6	5210.075				5150 to 5250	Pass			
40	7.6	5210.150			5150 to 5250	Pass				
50	7.6	5210.075			5150 to 5250	Pass				
5290	20	6.46			5290.075	5250 to 5350	Pass			
		7.6			5290.000	5250 to 5350	Pass			
		8.74			5290.075	5250 to 5350	Pass			
	-30	7.6			5290.075	5250 to 5350	Pass			
	-20	7.6	5290.075	5250 to 5350	Pass					
	-10	7.6	5290.075	5250 to 5350	Pass					
0	7.6	5290.000	5250 to 5350	Pass						
10	7.6	5290.000	5250 to 5350	Pass						
30	7.6	5290.000	5250 to 5350	Pass						
40	7.6	5290.000	5250 to 5350	Pass						
50	7.6	5290.000	5250 to 5350	Pass						

Note: All antennas type has been tested and we found the antenna 1 has the worst result. Only record the worst test result.

- End of the Report -



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