

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **Duty Cycle**

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5500	98.07%	0.08
802.11n HT20	5500	98.44%	0.07
802.11n HT40	5510	96.88%	0.14
802.11ac VHT20	5500	97.94%	0.09
802.11ac VHT40	5510	95.88%	0.18
802.11ac VHT80	5530	91.84%	0.37

**Output Power  
NII2C**

Mode	Tones/ RUIndex	Freq (MHz)	Ant	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Ant7	17.27	15.07
		5580	Ant7	17.06	14.86
		5700	Ant7	18.01	15.81
802.11n20M		5500	Ant7	16.96	14.76
		5580	Ant7	16.67	14.47
		5700	Ant7	17.63	15.43
802.11n40M		5510	Ant7	16.12	13.92
		5550	Ant7	15.87	13.67
		5670	Ant7	16.70	14.5
802.11ac20M		5500	Ant7	15.96	13.76
		5580	Ant7	15.70	13.5
		5700	Ant7	16.72	14.52
802.11ac40M		5510	Ant7	16.18	13.98
		5550	Ant7	15.93	13.73
		5670	Ant7	16.74	14.54
802.11ac80M	5530	Ant7	16.08	13.88	
	5610	Ant7	15.95	13.75	

**Test on the worst case:**

Modulation type	Conducted Peak Power(dBm)		
	5200MHz	5240MHz	5260MHz
11A	--	--	--
	5300MHz	5320MHz	5500MHz
	--	--	--
	5580MHz	5700MHz	5745MHz
	--	17.50	--
	5785MHz	5825MHz	--
	--	--	--

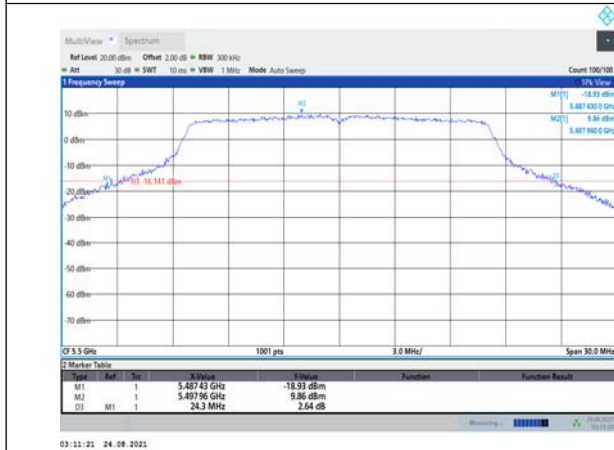
### Emission Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

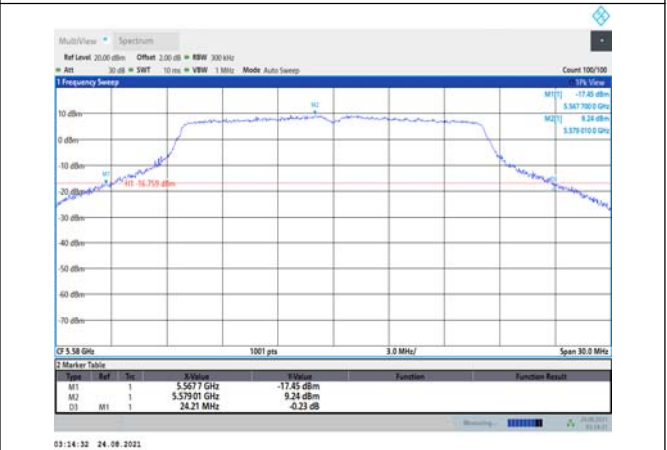
Test Mode:802.11a

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5500	Ant7	24.300
5580	Ant7	24.210
5700	Ant7	23.640

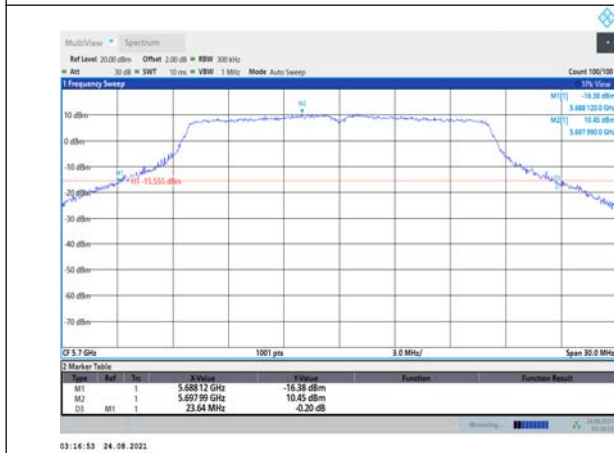
Test Mode:802.11a Ant7



Test Mode:802.11a Ant7



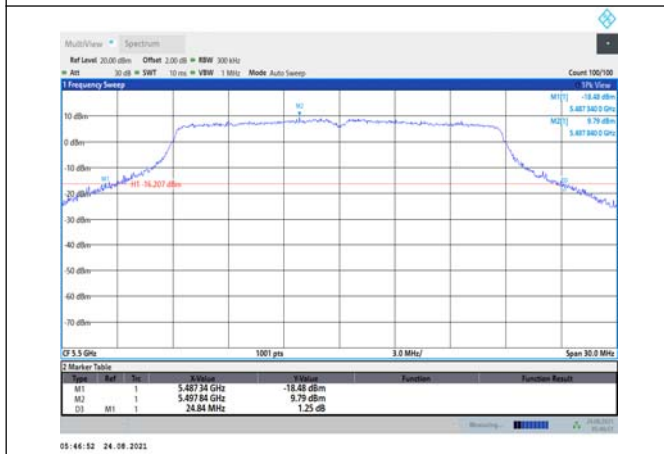
Test Mode:802.11a Ant7



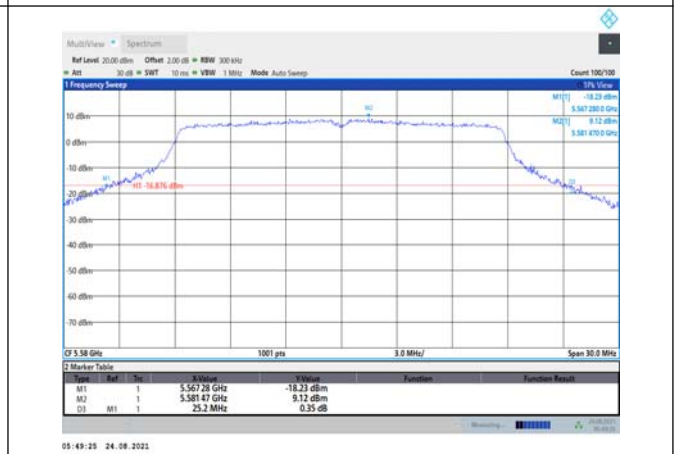
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5500	Ant7	24.840
5580	Ant7	25.200
5700	Ant7	24.900

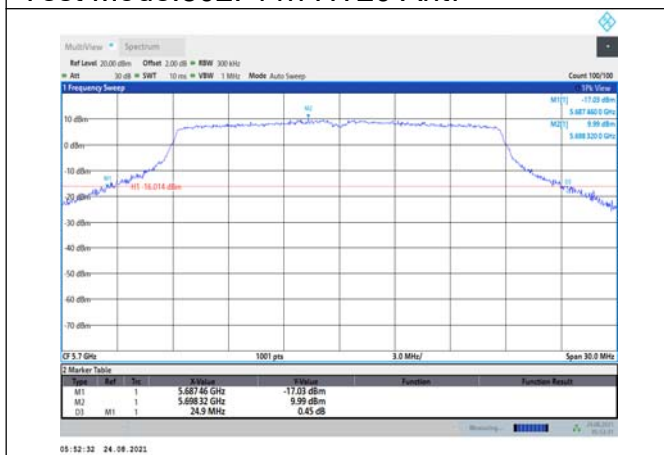
Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT20 Ant7



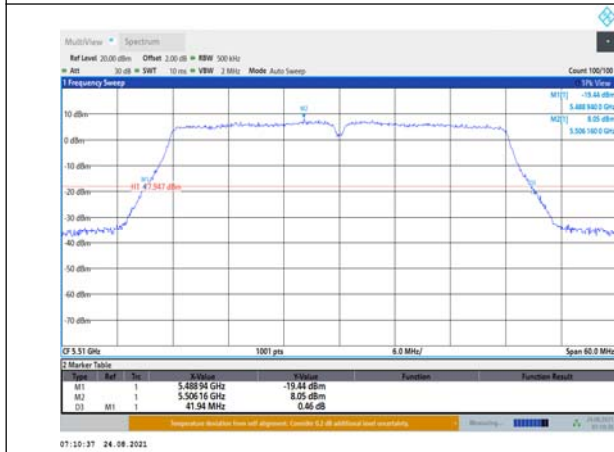
Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT40

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5510	Ant7	41.940
5550	Ant7	41.880
5670	Ant7	41.880

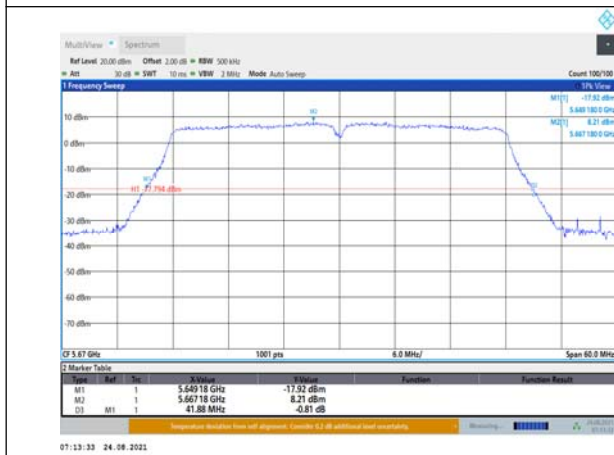
Test Mode:802. 11n HT40 Ant7



Test Mode:802. 11n HT40 Ant7



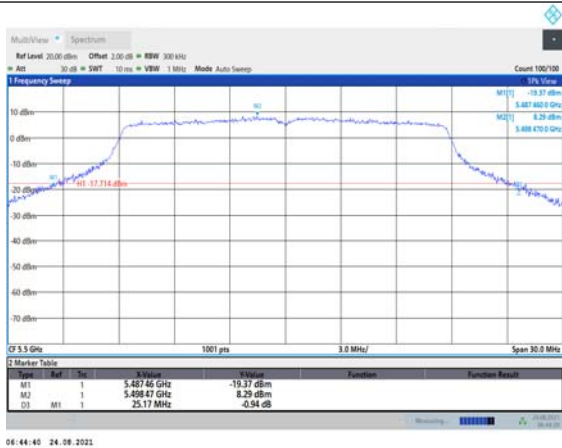
Test Mode:802. 11n HT40 Ant7



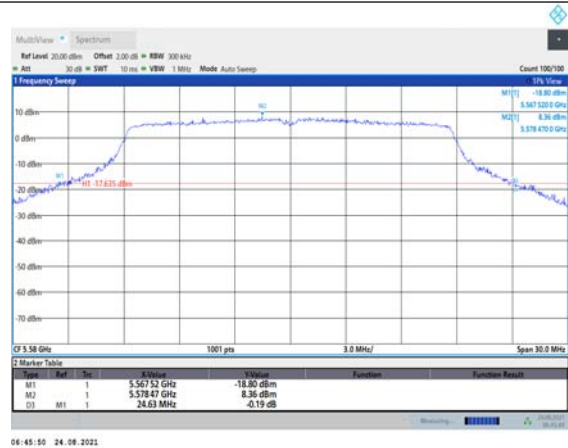
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5500	Ant7	25.170
5580	Ant7	24.630
5700	Ant7	25.200

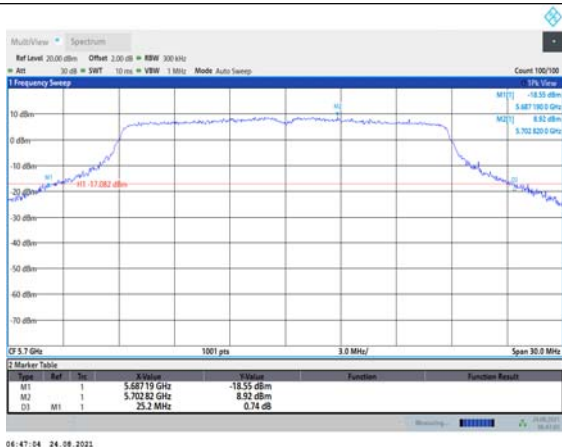
Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT20 Ant7



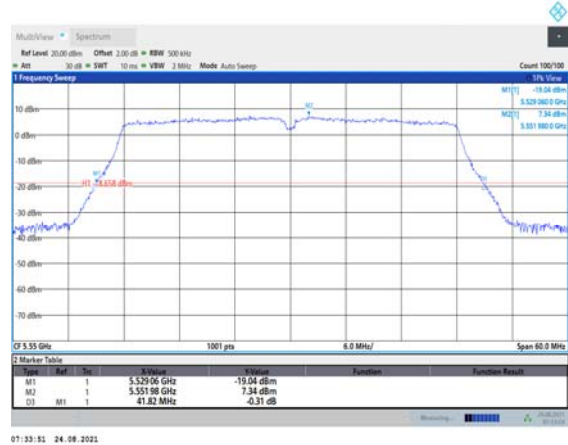
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5510	Ant7	41.940
5550	Ant7	41.820
5670	Ant7	41.700

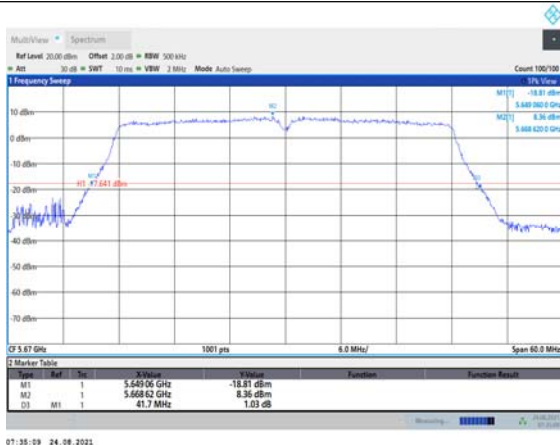
Test Mode:802. 11ac VHT40 Ant7



Test Mode:802. 11ac VHT40 Ant7



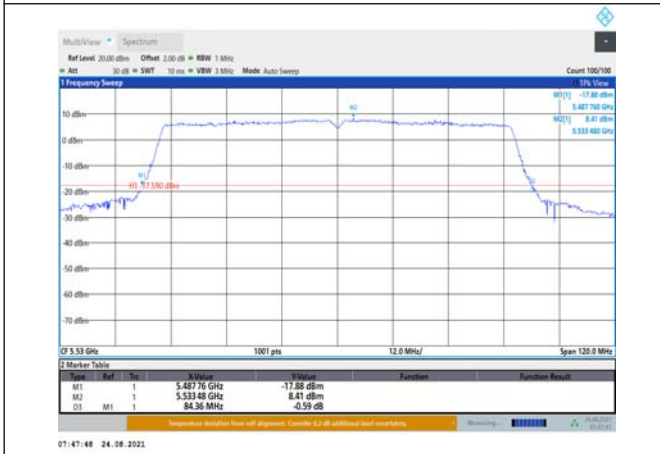
Test Mode:802. 11ac VHT40 Ant7



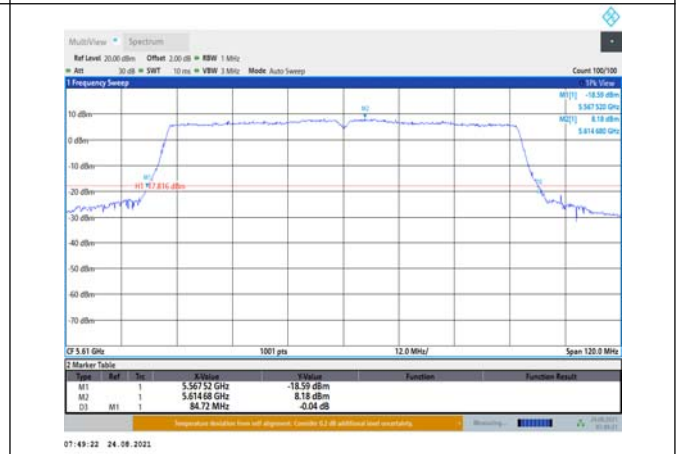
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5530	Ant7	84.360
5610	Ant7	84.720

Test Mode:802. 11ac VHT80 Ant7



Test Mode:802. 11ac VHT80 Ant7





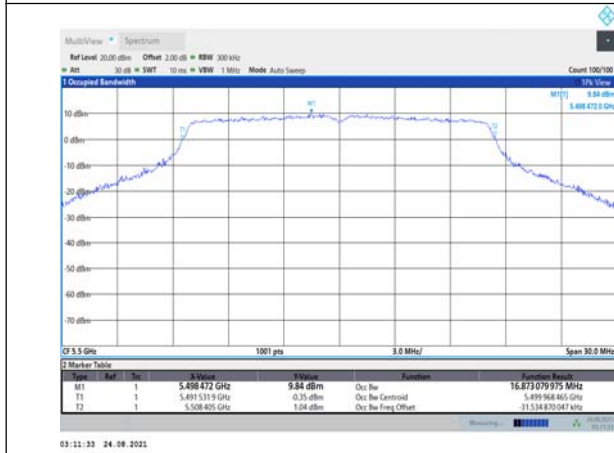
### Occupied Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

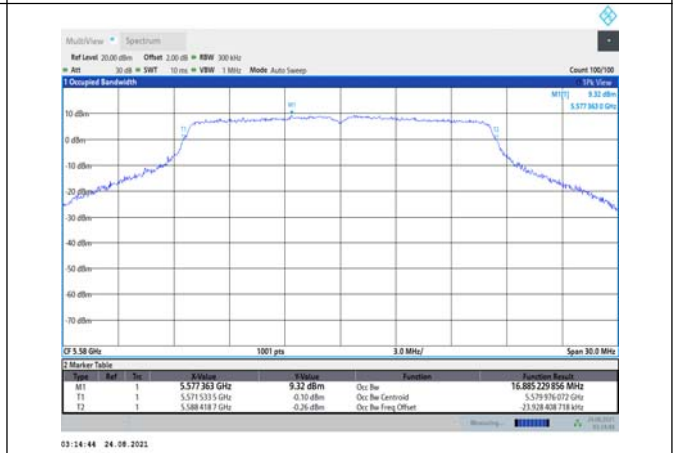
Test Mode:802.11a

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5500	Ant7	16.873
5580	Ant7	16.885
5700	Ant7	16.886

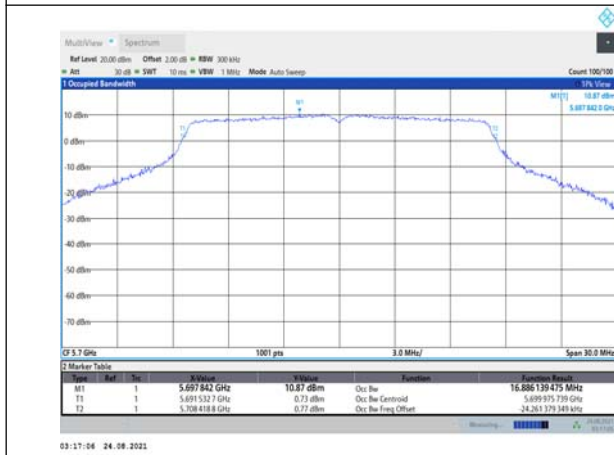
Test Mode:802.11a Ant7



Test Mode:802.11a Ant7



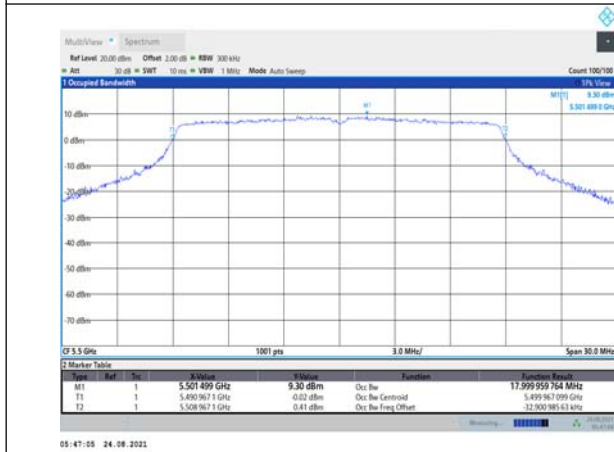
Test Mode:802.11a Ant7



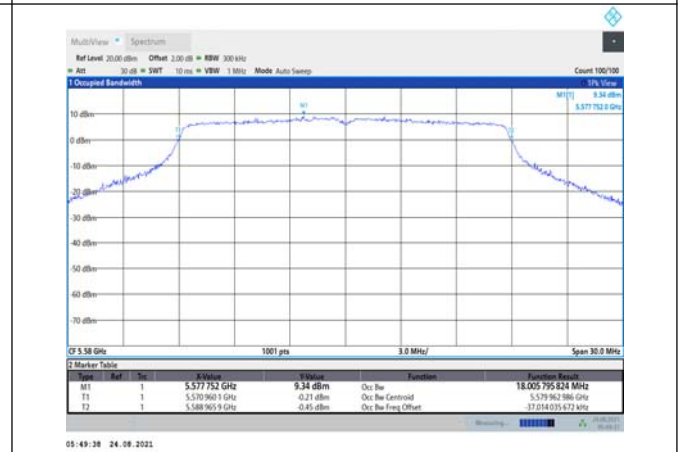
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5500	Ant7	18
5580	Ant7	18.006
5700	Ant7	18.017

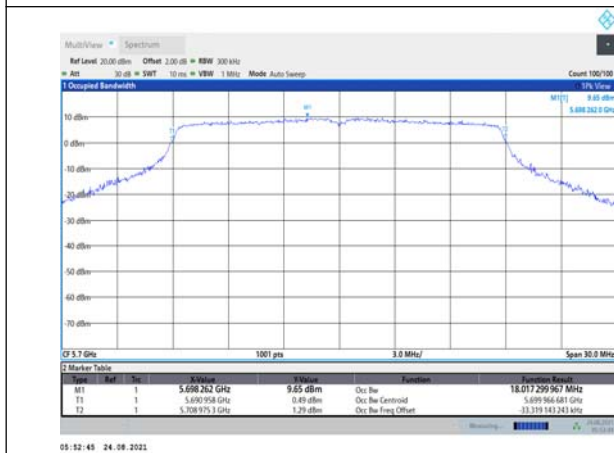
Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT20 Ant7



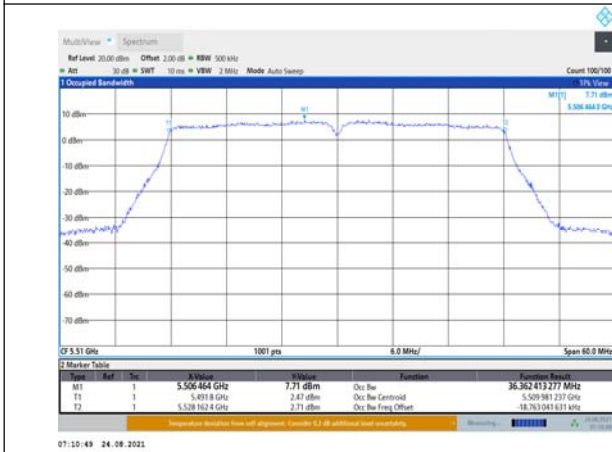
Test Mode:802. 11n HT20 Ant7



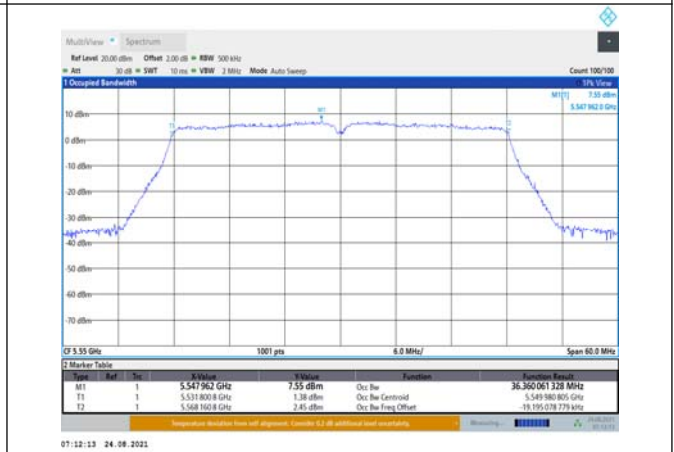
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5510	Ant7	36.362
5550	Ant7	36.36
5670	Ant7	36.346

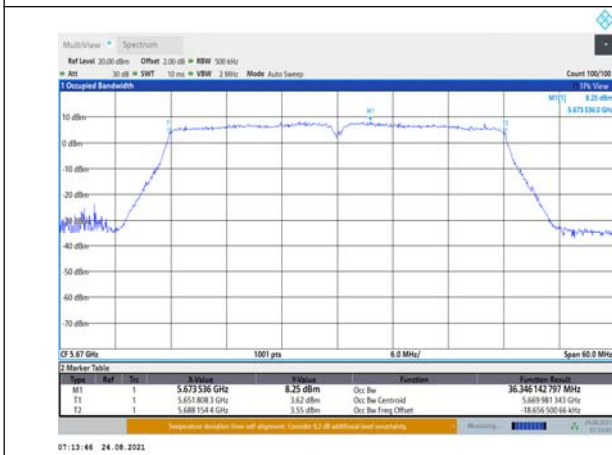
Test Mode:802. 11n HT40 Ant7



Test Mode:802. 11n HT40 Ant7



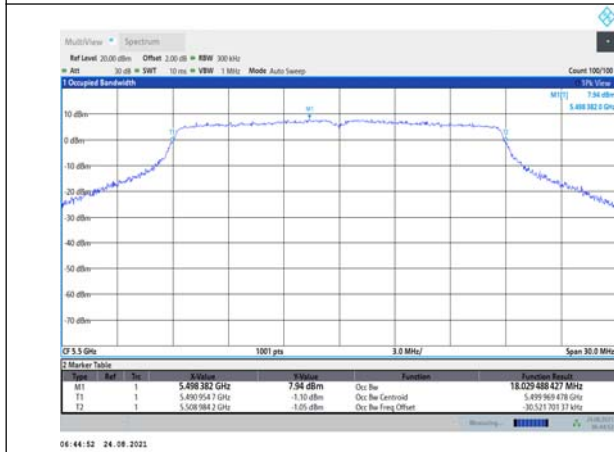
Test Mode:802. 11n HT40 Ant7



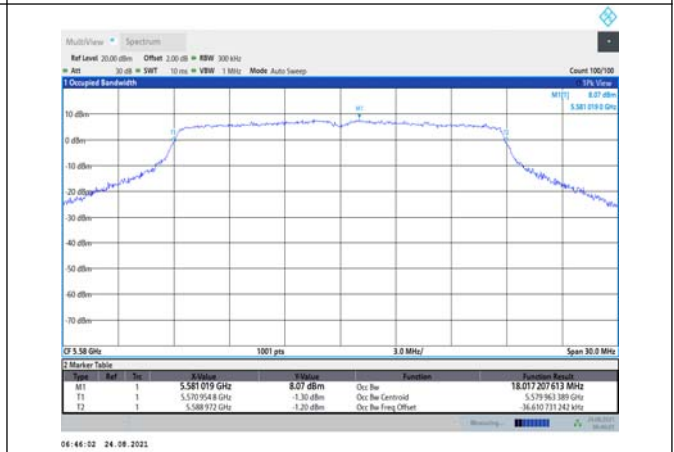
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5500	Ant7	18.029
5580	Ant7	18.017
5700	Ant7	18.027

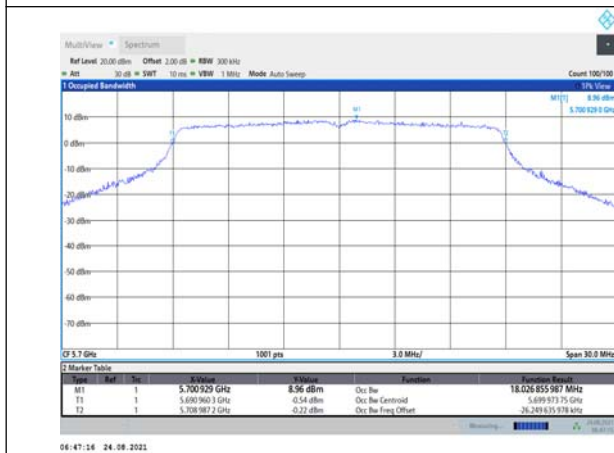
Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT20 Ant7



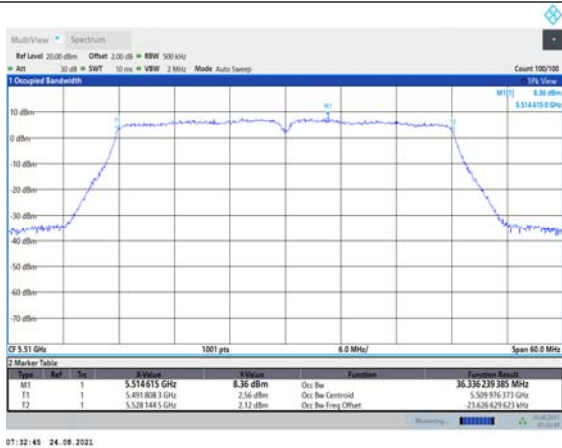
Test Mode:802. 11ac VHT20 Ant7



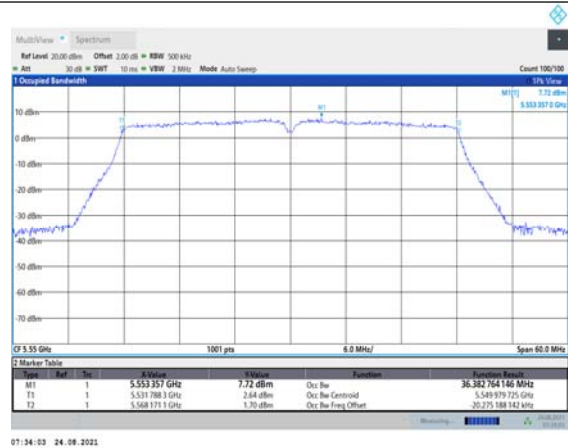
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5510	Ant7	36.336
5550	Ant7	36.383
5670	Ant7	36.368

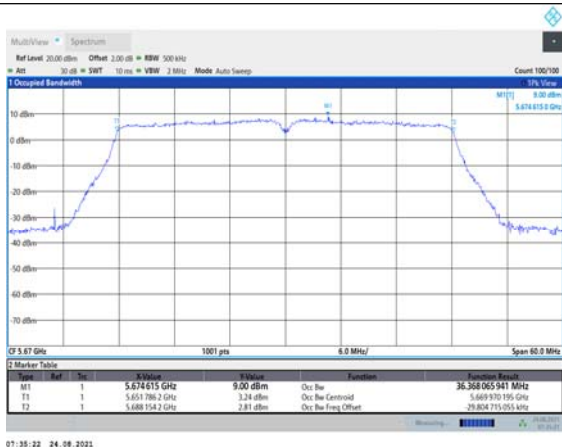
Test Mode:802. 11ac VHT40 Ant7



Test Mode:802. 11ac VHT40 Ant7



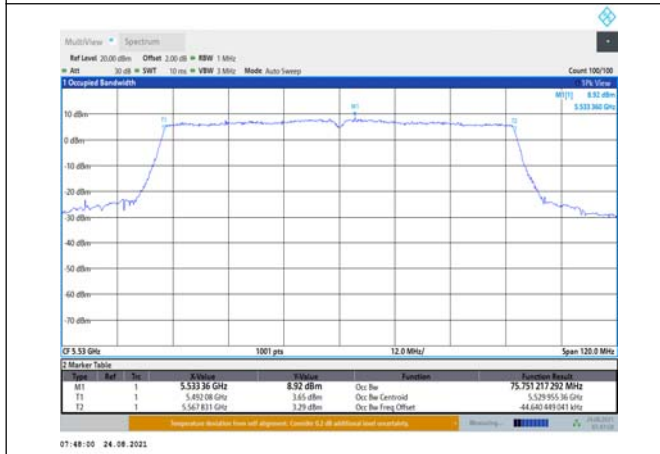
Test Mode:802. 11ac VHT40 Ant7



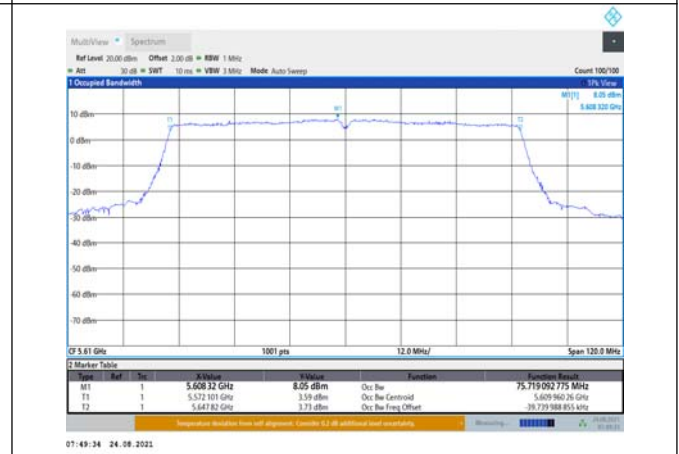
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5530	Ant7	75.751
5610	Ant7	75.719

Test Mode:802. 11ac VHT80 Ant7



Test Mode:802. 11ac VHT80 Ant7



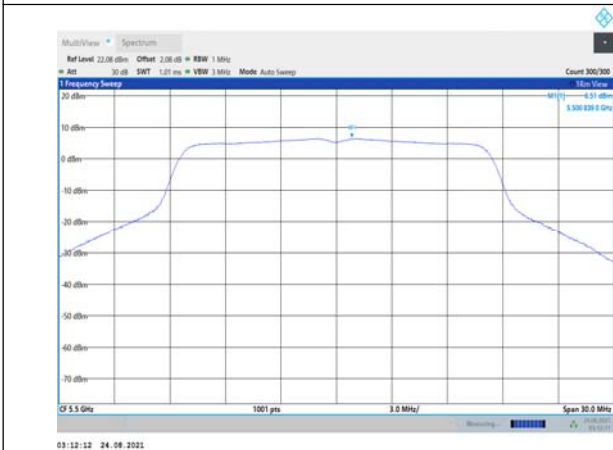
### Transmitter Power Spectral Density

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

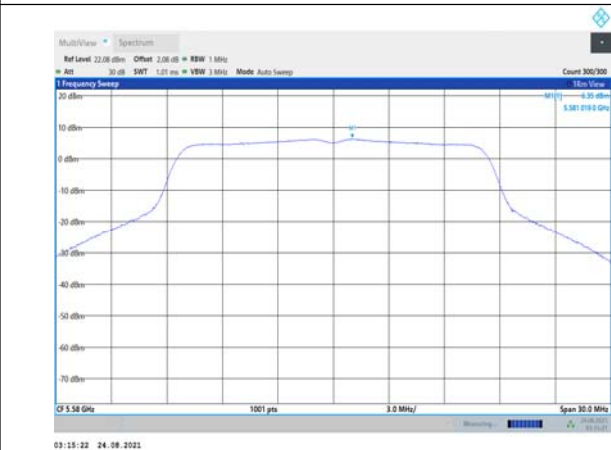
Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5500	0.08	Ant7	6.51
5580		Ant7	6.35
5700		Ant7	7.2

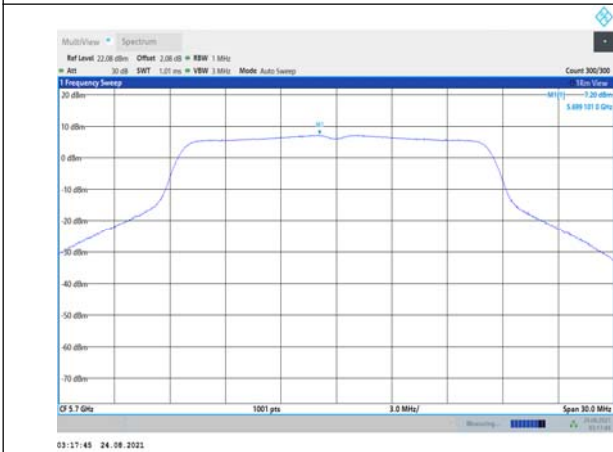
Test Mode:802.11a Ant7



Test Mode:802.11a Ant7



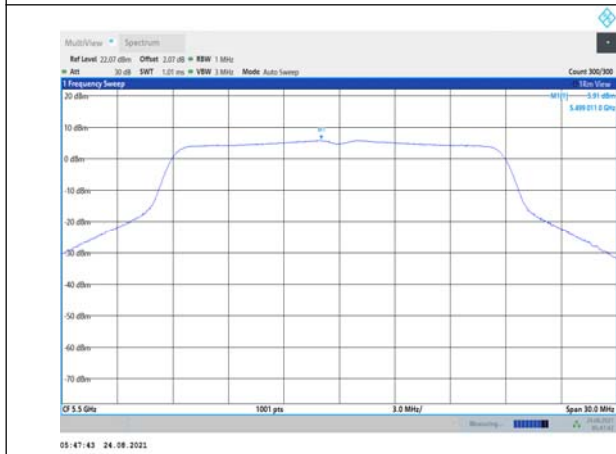
Test Mode:802.11a Ant7



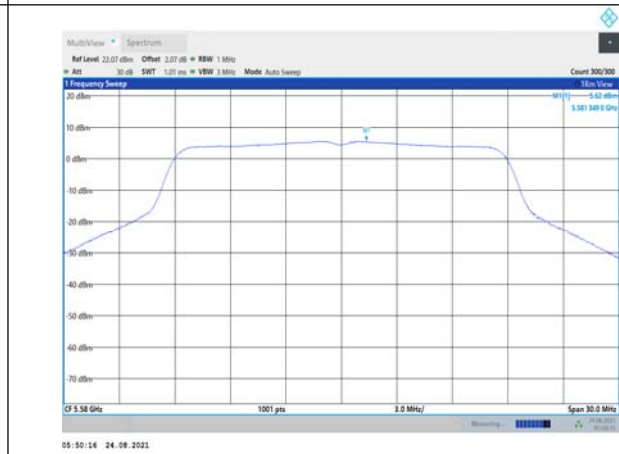
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5500	0.07	Ant7	5.91
5580		Ant7	5.62
5700		Ant7	6.66

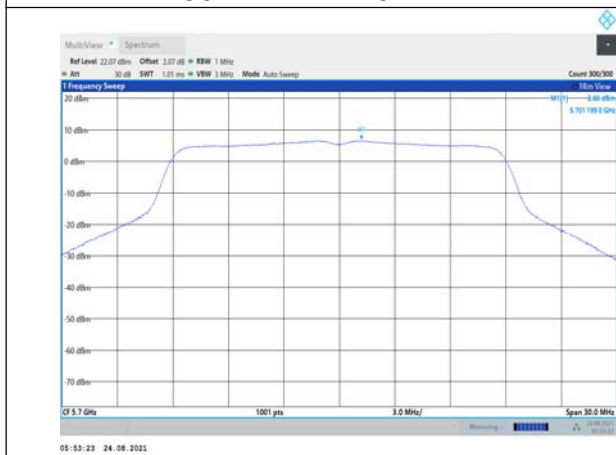
Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT20 Ant7

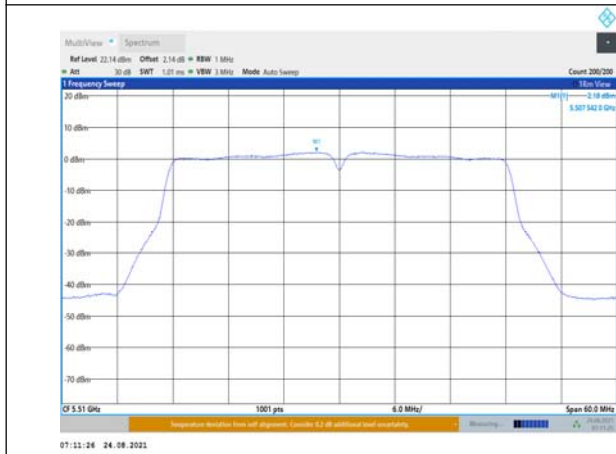




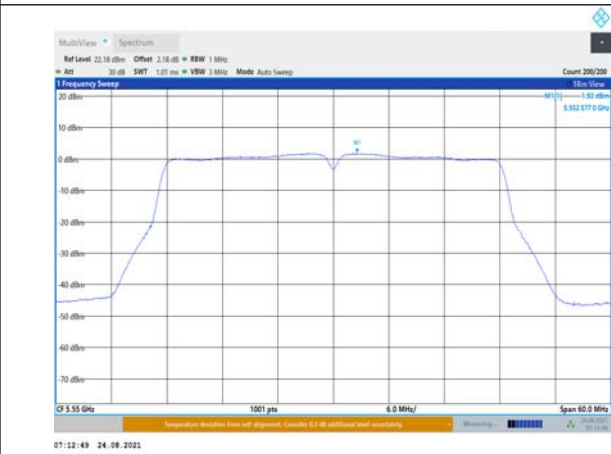
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5510	0.14	Ant7	2.18
5550		Ant7	1.92
5670		Ant7	2.8

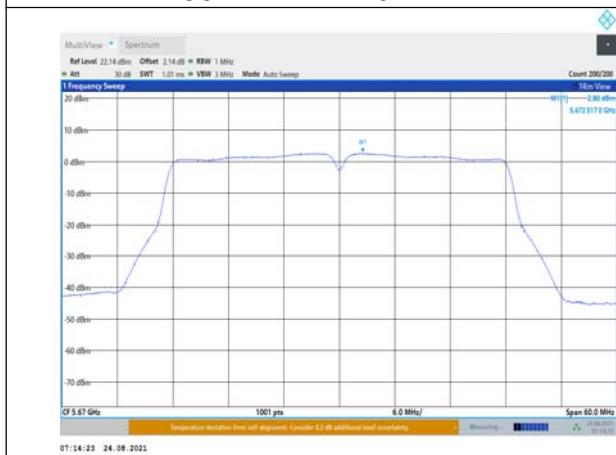
Test Mode:802. 11n HT40 Ant7



Test Mode:802. 11n HT40 Ant7



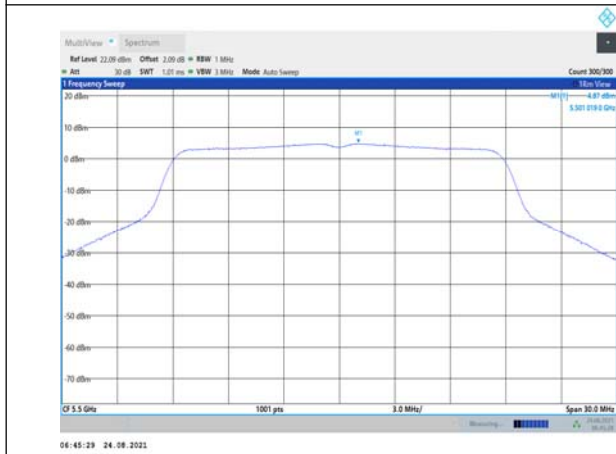
Test Mode:802. 11n HT40 Ant7



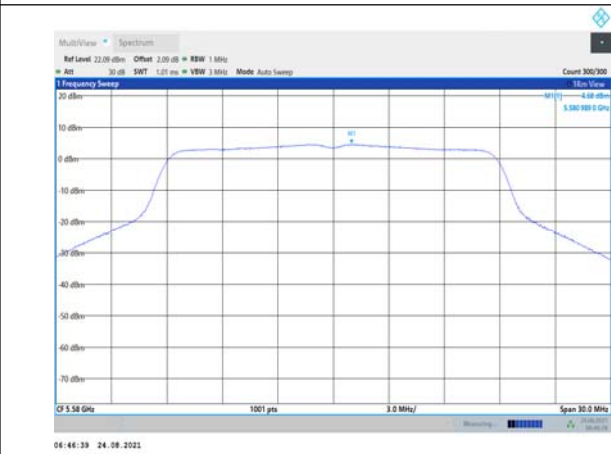
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5500	0.09	Ant7	4.87
5580		Ant7	4.68
5700		Ant7	5.85

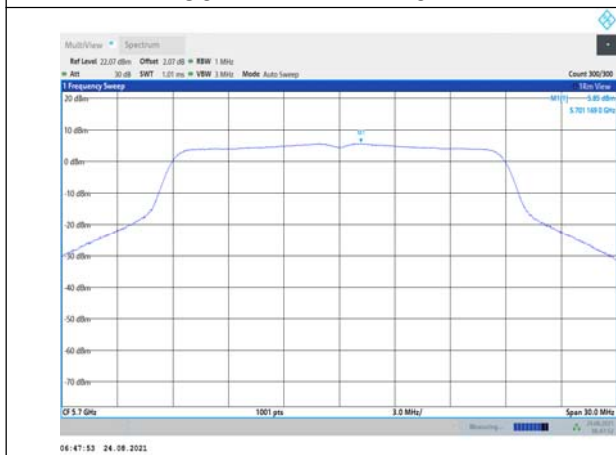
Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT20 Ant7



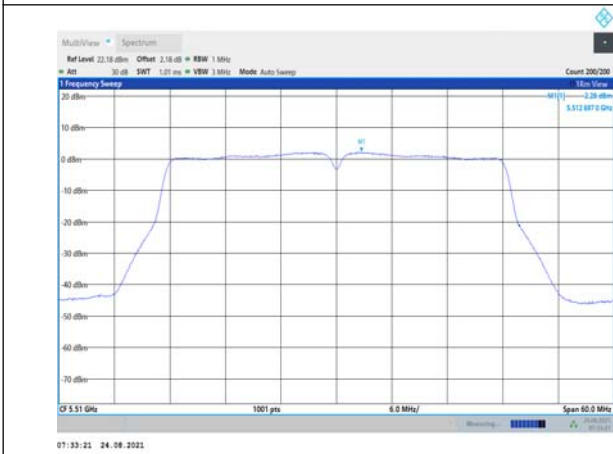
Test Mode:802. 11ac VHT20 Ant7



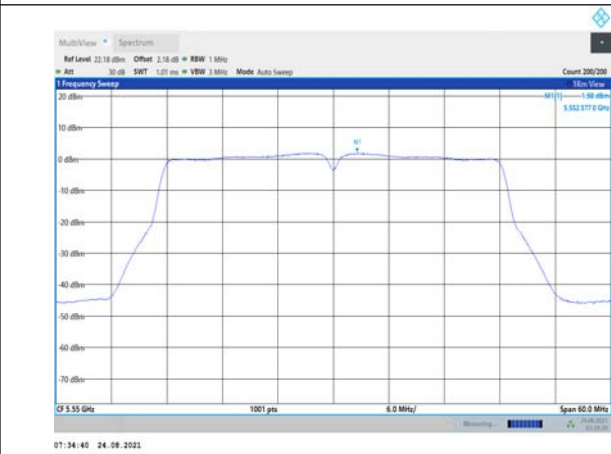
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5510	0.18	Ant7	2.28
5550		Ant7	1.98
5670		Ant7	2.84

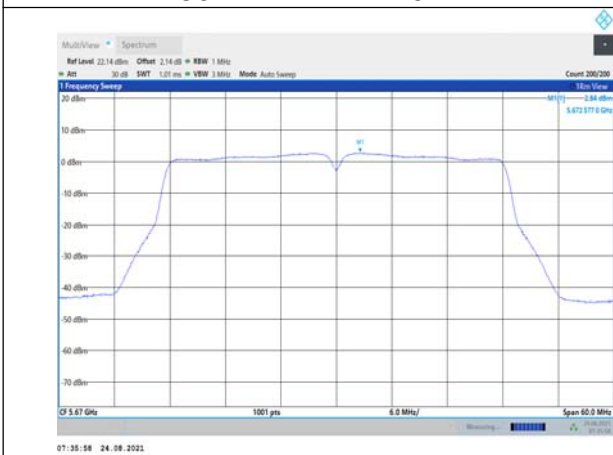
Test Mode:802. 11ac VHT40 Ant7



Test Mode:802. 11ac VHT40 Ant7



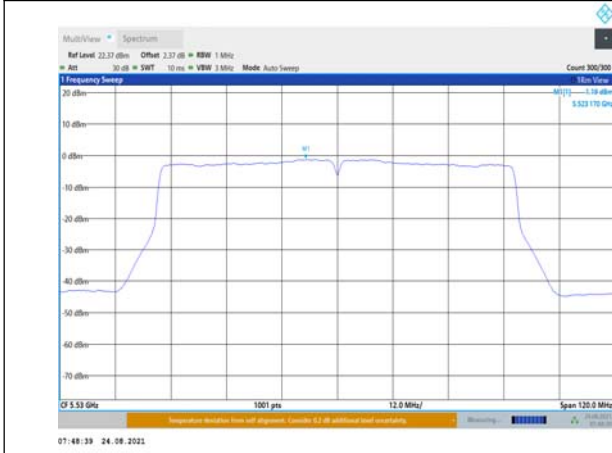
Test Mode:802. 11ac VHT40 Ant7



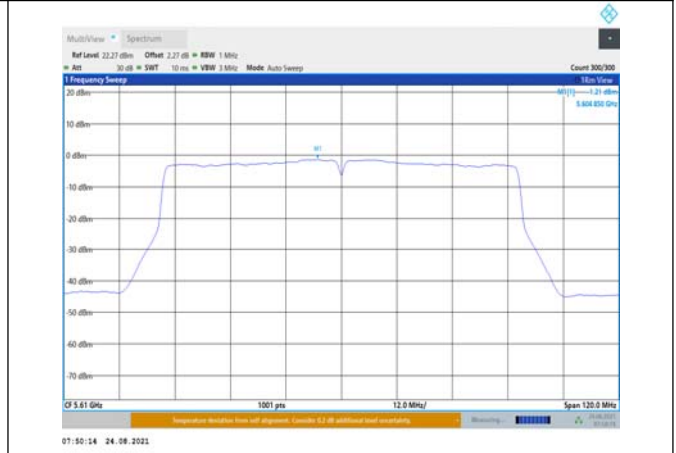
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5530	0.37	Ant7	-1.19
5610		Ant7	-1.21

Test Mode:802. 11ac VHT80 Ant7



Test Mode:802. 11ac VHT80 Ant7



Frequency Stability  
NII2C

Mode	Data Rate	Ant	Center Frequency (MHz)	Deviation Frequency (Hz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Ant7	5500	-15000	-2.727273	HV	+20
			5500	-15000	-2.727273	LV	+20
			5500	-15000	-2.727273	NV	-30
			5500	-15000	-2.727273	NV	-20
			5500	-15000	-2.727273	NV	-10
			5500	-15000	-2.727273	NV	0
			5500	-30000	-5.454545	NV	+10
			5500	-15000	-2.727273	NV	+20
			5500	-15000	-2.727273	NV	+30
			5500	-15000	-2.727273	NV	+40
			5500	-15000	-2.727273	NV	+50