

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	98.07%	0.08
802.11n HT20	5745	98.44%	0.07
802.11n HT40	5755	96.88%	0.14
802.11ac VHT20	5745	97.94%	0.09
802.11ac VHT40	5755	95.88%	0.18
802.11ac VHT80	5775	91.84%	0.37

Output Power
NII3

Mode	Tones/ RUIndex	Freq (MHz)	Ant	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Ant7	17.91	15.71
		5785	Ant7	17.83	15.63
		5825	Ant7	17.82	15.62
802.11n20M		5745	Ant7	17.50	15.3
		5785	Ant7	17.44	15.24
		5825	Ant7	17.44	15.24
802.11n40M		5755	Ant7	16.91	14.71
		5795	Ant7	16.73	14.53
802.11ac20M		5745	Ant7	16.64	14.44
		5785	Ant7	16.50	14.3
		5825	Ant7	16.57	14.37
802.11ac40M		5755	Ant7	16.97	14.77
	5795	Ant7	16.73	14.53	
802.11ac80M	5775	Ant7	16.84	14.64	

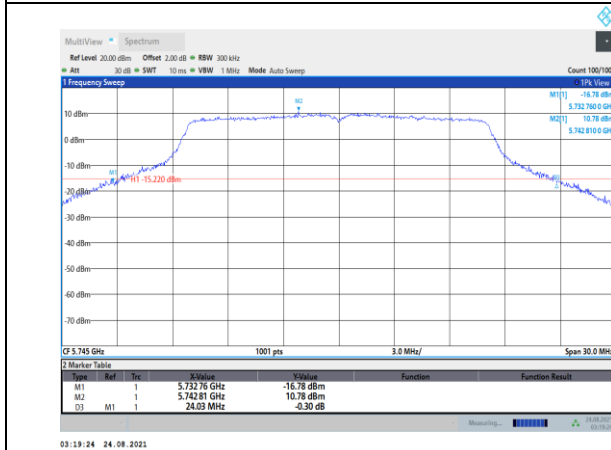
Emission Bandwidth

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

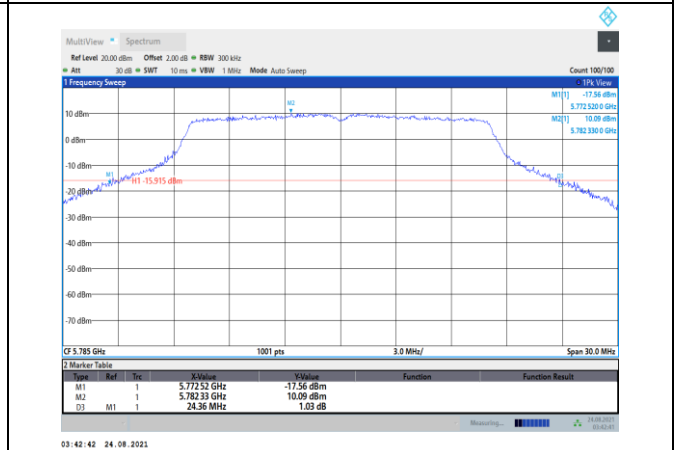
Test Mode:802.11a

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5745	Ant7	24.030
5785	Ant7	24.360
5825	Ant7	23.700

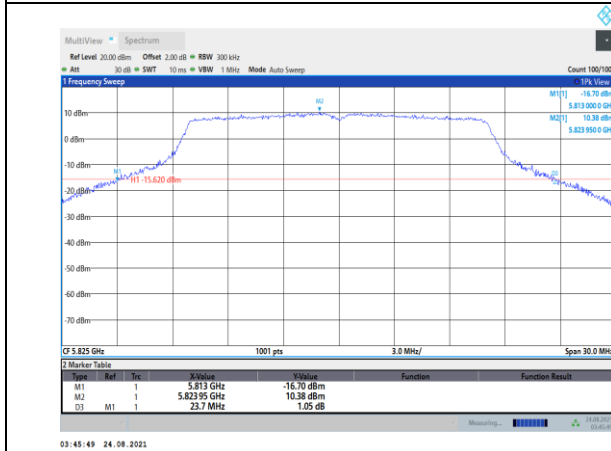
Test Mode:802.11a Ant7



Test Mode:802.11a Ant7



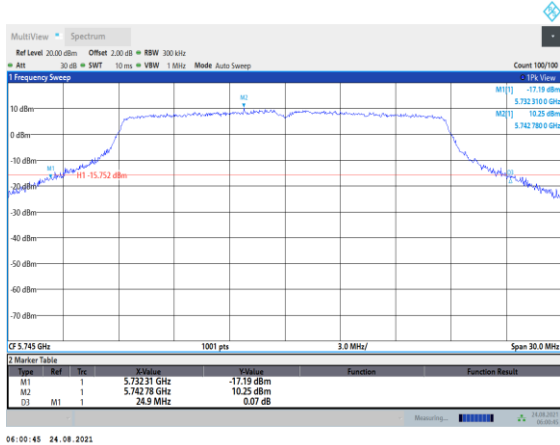
Test Mode:802.11a Ant7



Test Mode:802. 11n HT20

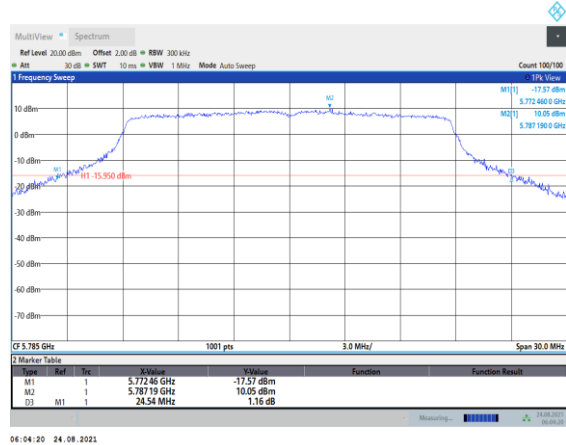
Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5745	Ant7	24.900
5785	Ant7	24.540
5825	Ant7	24.990

Test Mode:802. 11n HT20 Ant7



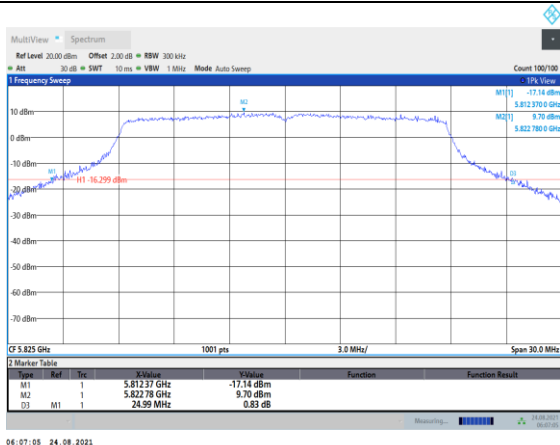
06:00:45 24.08.2021

Test Mode:802. 11n HT20 Ant7



06:04:20 24.08.2021

Test Mode:802. 11n HT20 Ant7

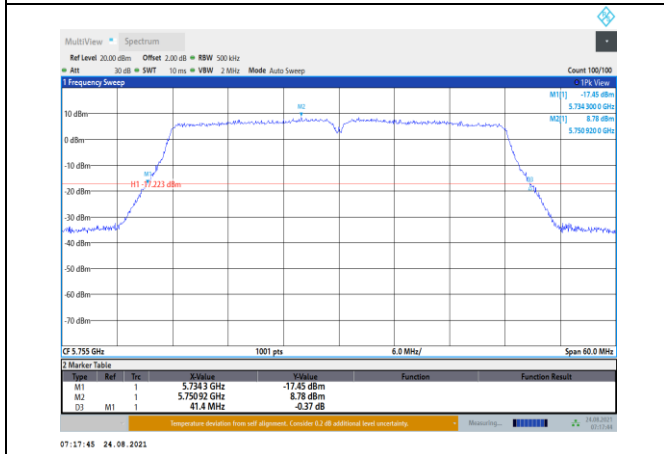


06:07:05 24.08.2021

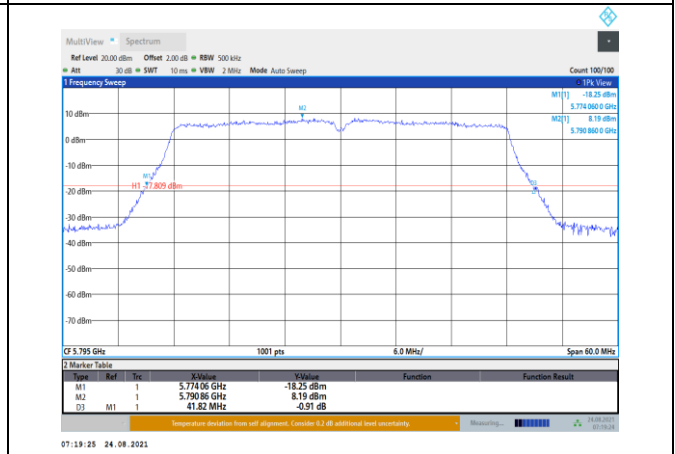
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5755	Ant7	41.400
5795	Ant7	41.820

Test Mode:802. 11n HT40 Ant7



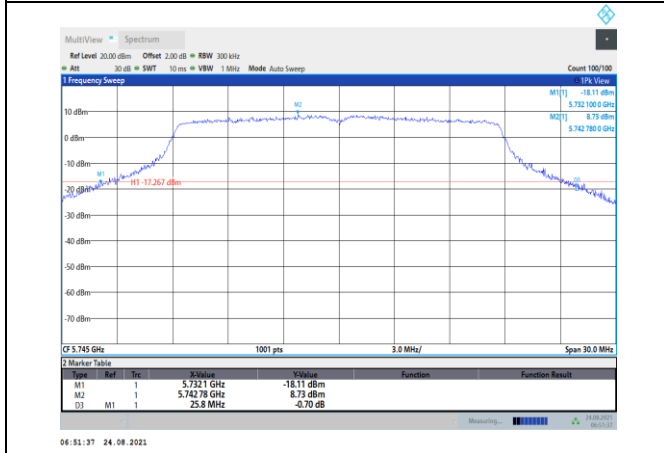
Test Mode:802. 11n HT40 Ant7



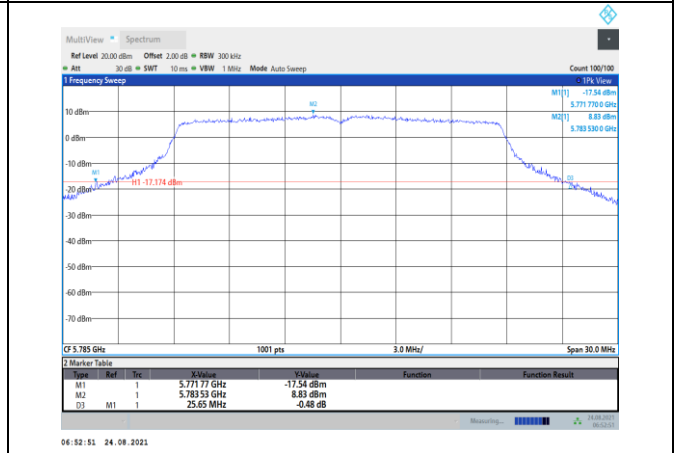
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5745	Ant7	25.800
5785	Ant7	25.650
5825	Ant7	25.170

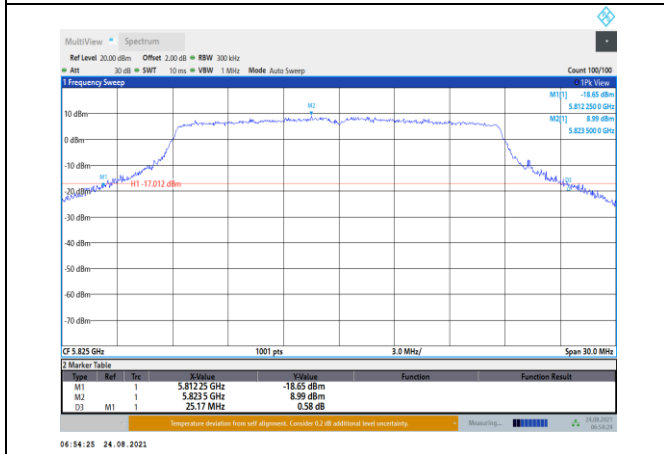
Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT20 Ant7



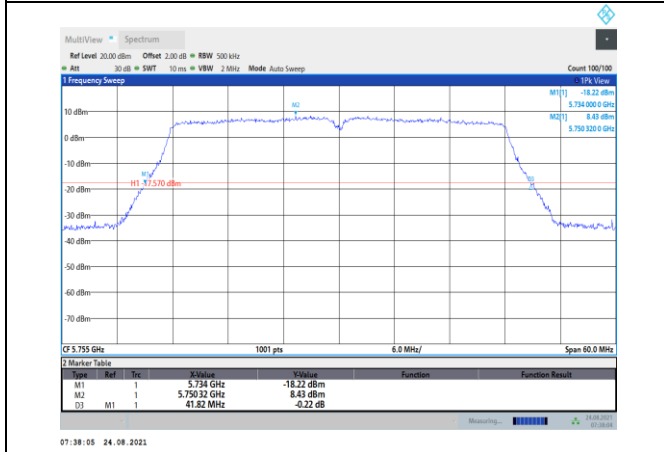
Test Mode:802. 11ac VHT20 Ant7



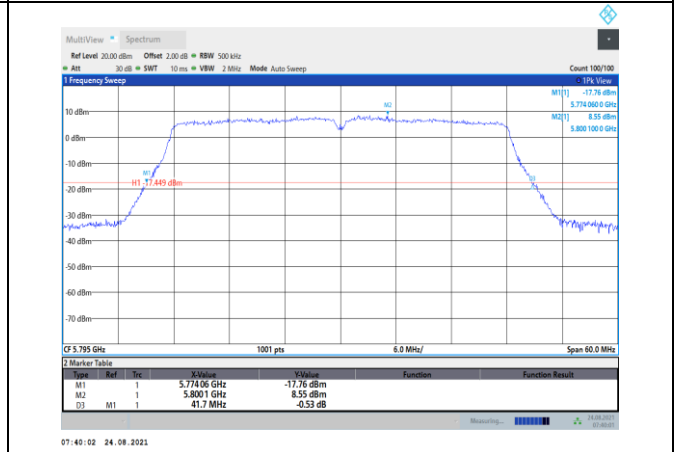
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5755	Ant7	41.820
5795	Ant7	41.700

Test Mode:802. 11ac VHT40 Ant7



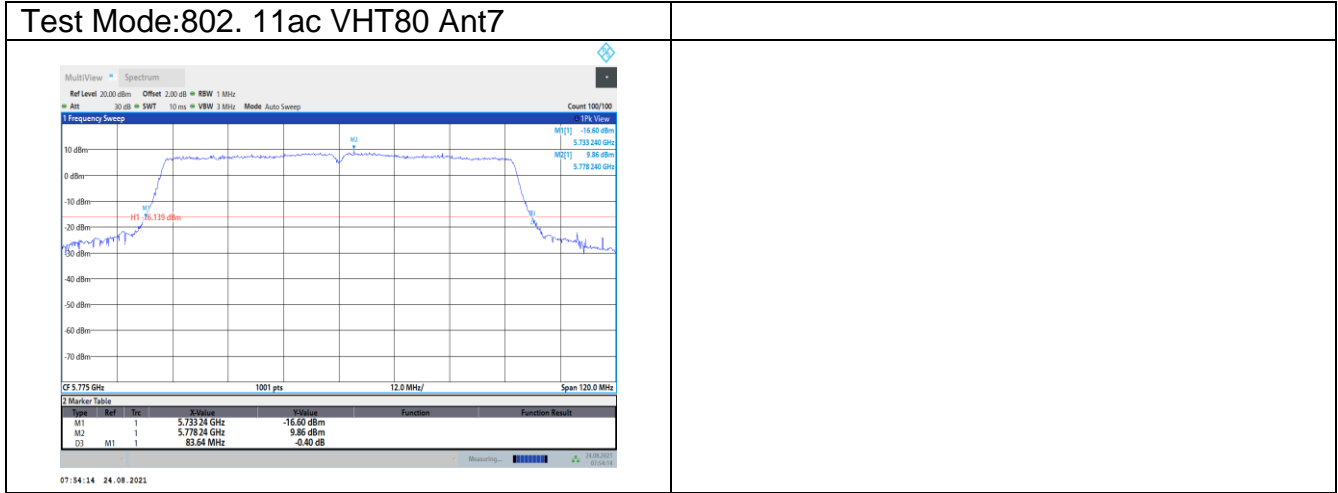
Test Mode:802. 11ac VHT40 Ant7



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Ant	26dB Bandwidth (MHz)
5775	Ant7	83.640

Test Mode:802. 11ac VHT80 Ant7

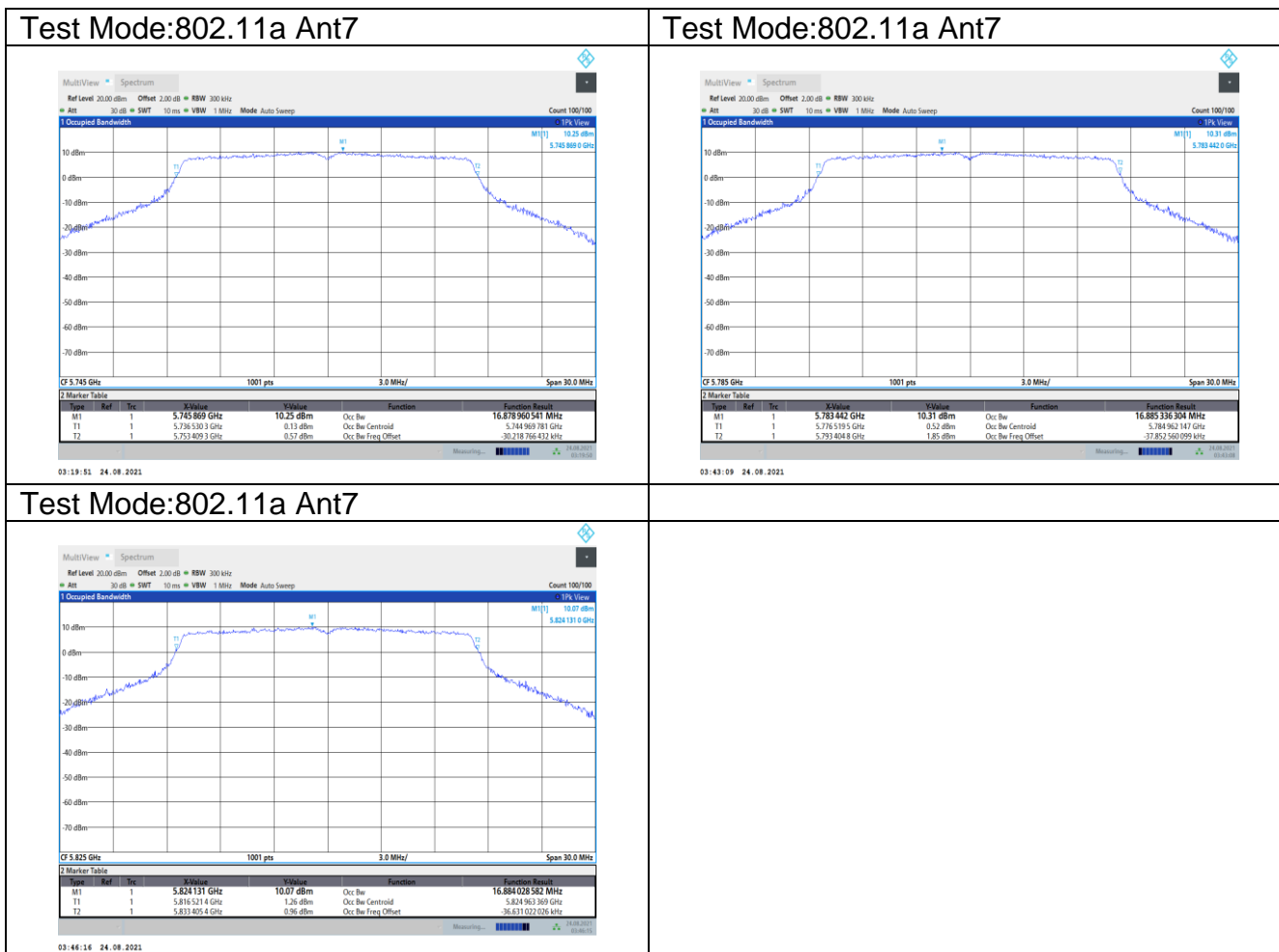


Occupied Bandwidth

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

Test Mode:802.11a

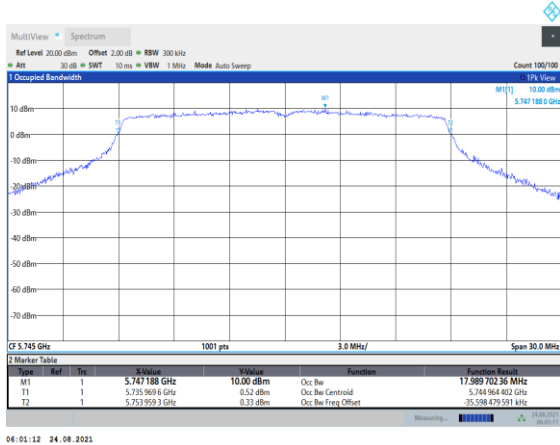
Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5745	Ant7	16.879
5785	Ant7	16.885
5825	Ant7	16.884



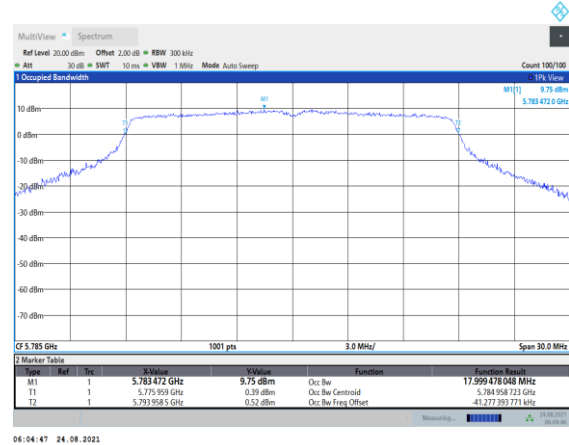
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5745	Ant7	17.99
5785	Ant7	17.999
5825	Ant7	17.999

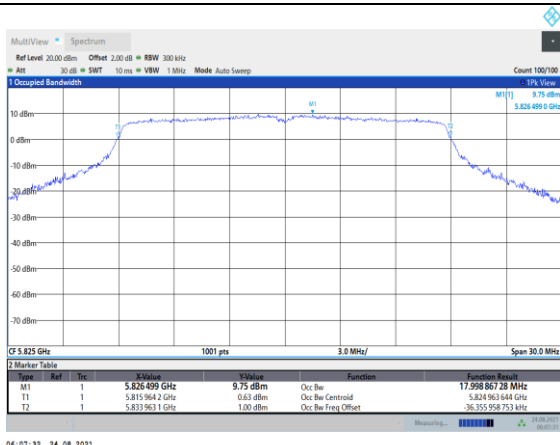
Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT20 Ant7



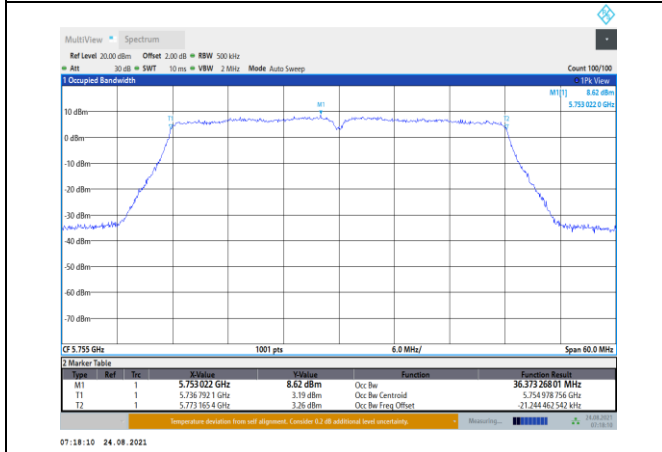
Test Mode:802. 11n HT20 Ant7



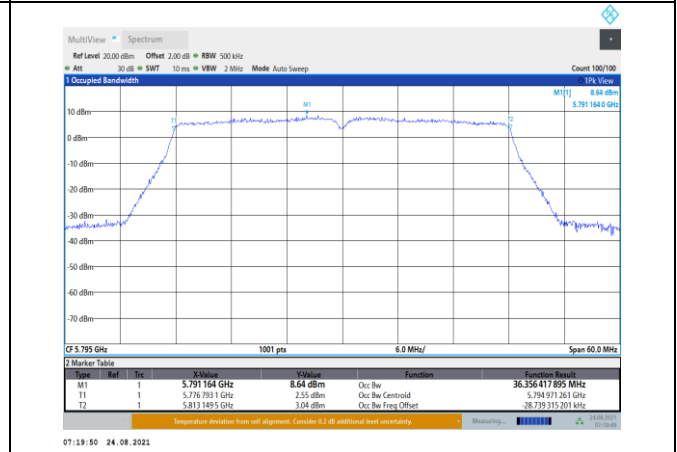
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5755	Ant7	36.373
5795	Ant7	36.356

Test Mode:802. 11n HT40 Ant7



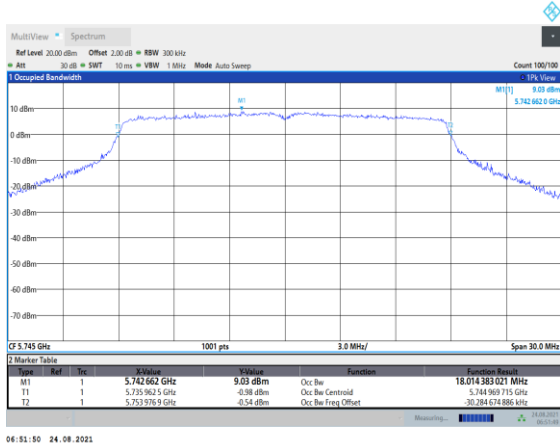
Test Mode:802. 11n HT40 Ant7



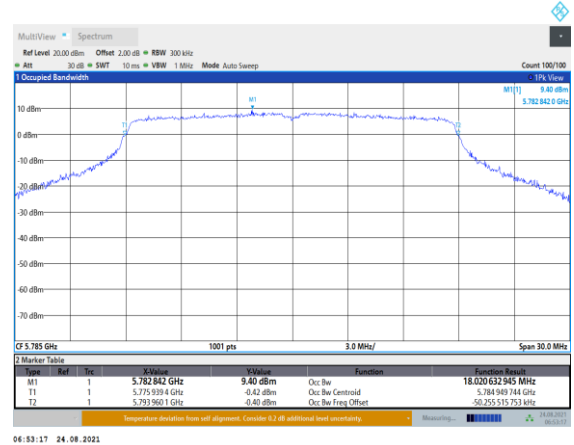
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5745	Ant7	18.014
5785	Ant7	18.021
5825	Ant7	18.025

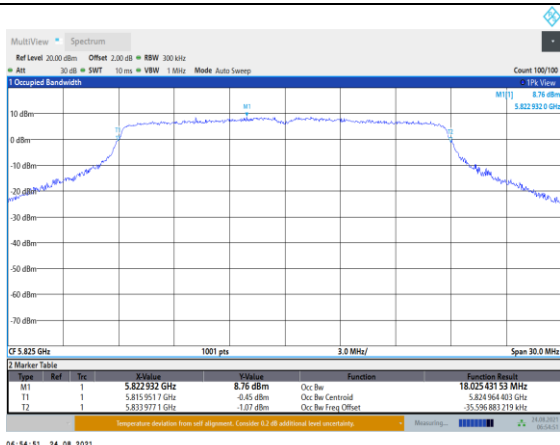
Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT20 Ant7



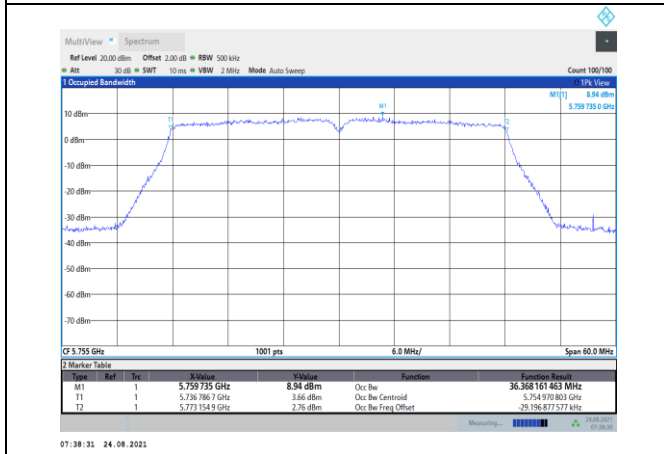
Test Mode:802. 11ac VHT20 Ant7



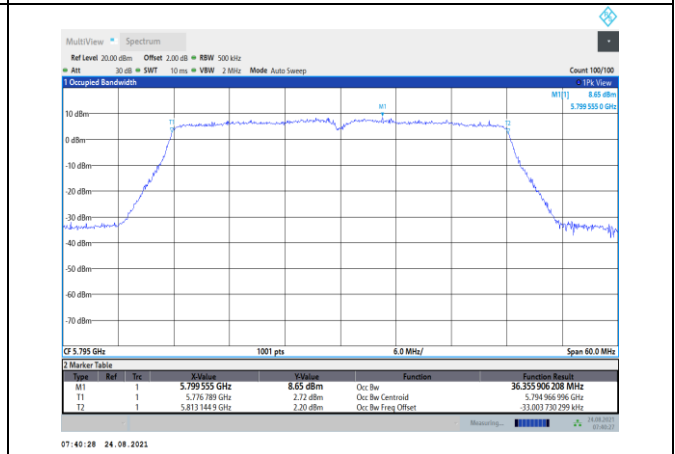
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5755	Ant7	36.368
5795	Ant7	36.356

Test Mode:802. 11ac VHT40 Ant7



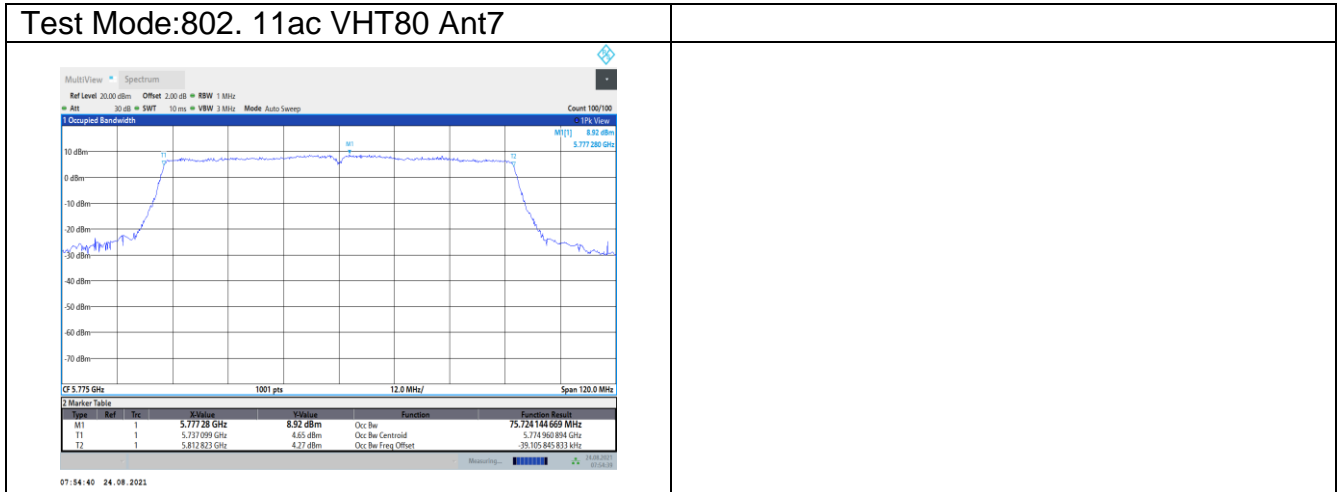
Test Mode:802. 11ac VHT40 Ant7



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Ant	Occupied Bandwidth (MHz)
5775	Ant7	75.724

Test Mode:802. 11ac VHT80 Ant7



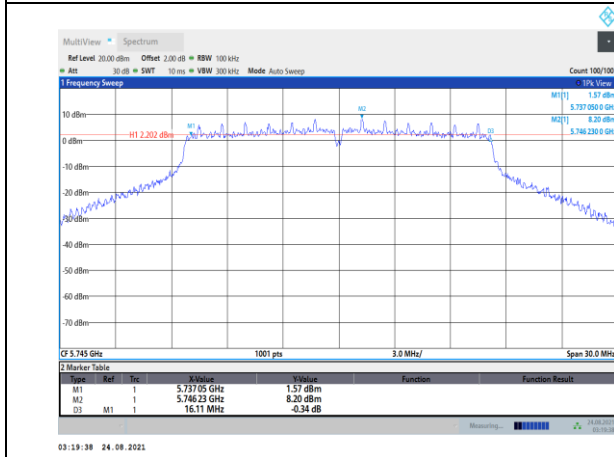
6dB Bandwidth

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

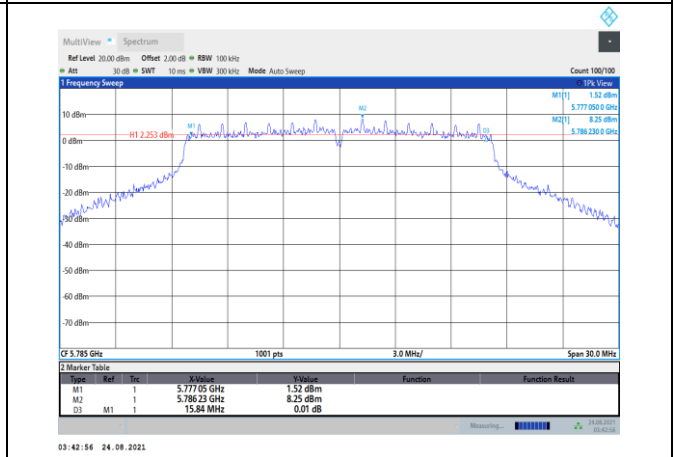
Test Mode:802.11a

Carrier frequency (MHz)	Ant	6dB Bandwidth (MHz)
5745	Ant7	16.110
5785	Ant7	15.840
5825	Ant7	15.900

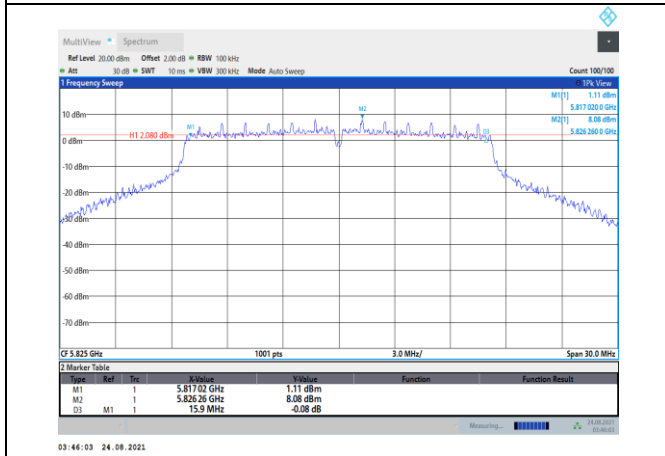
Test Mode:802.11a Ant7



Test Mode:802.11a Ant7



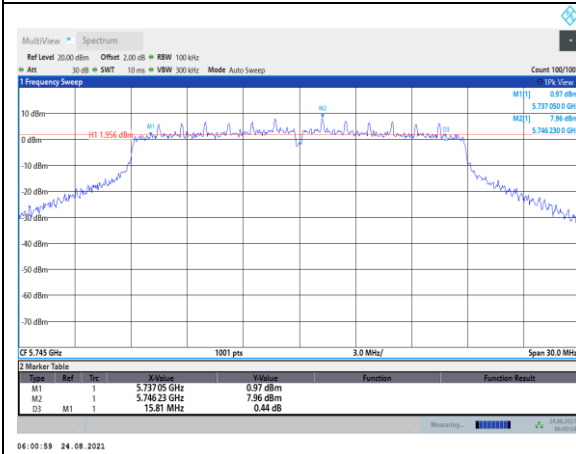
Test Mode:802.11a Ant7



Test Mode:802.11n HT20

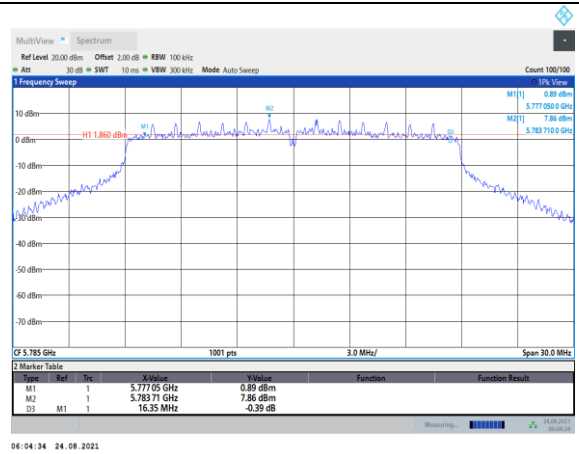
Carrier frequency (MHz)	Ant	6dB Bandwidth (MHz)
5745	Ant7	15.810
5785	Ant7	16.350
5825	Ant7	16.320

Test Mode:802.11a Ant7



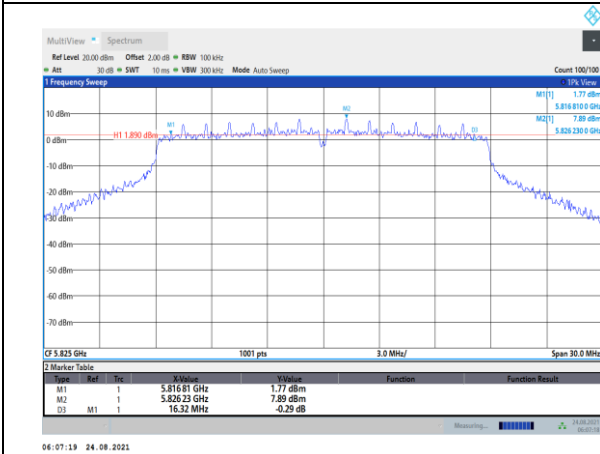
06:00:59 24.08.2021

Test Mode:802.11a Ant7



06:04:34 24.08.2021

Test Mode:802.11a Ant7

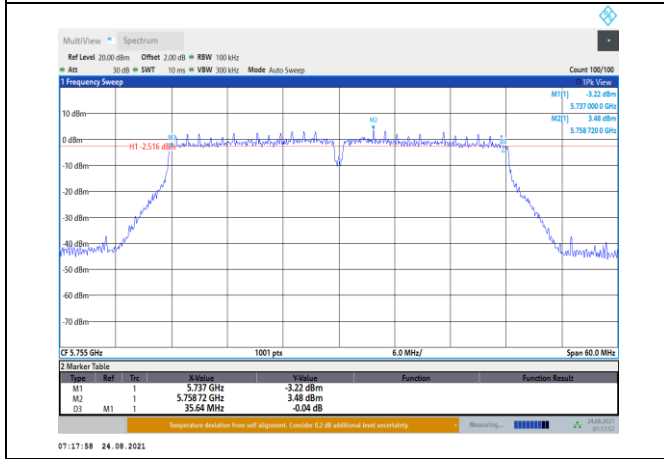


06:07:19 24.08.2021

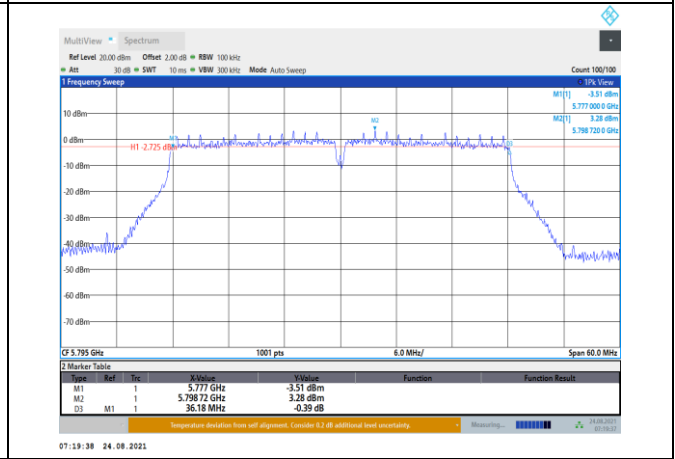
Test Mode:802.11 n HT40

Carrier frequency (MHz)	Ant	6dB Bandwidth (MHz)
5755	Ant7	35.640
5795	Ant7	36.180

Test Mode:802.11a Ant7



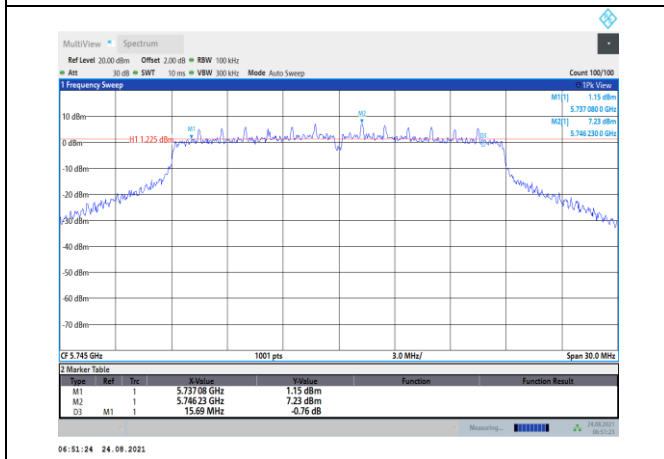
Test Mode:802.11a Ant7



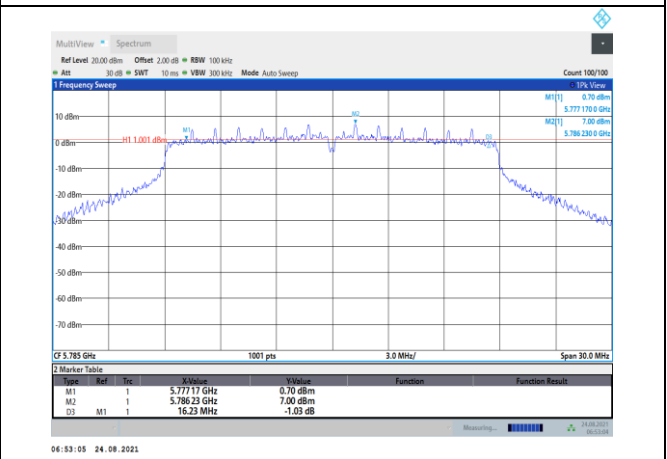
Test Mode:802.11ac VHT20

Carrier frequency (MHz)	Ant	6dB Bandwidth (MHz)
5745	Ant7	15.690
5785	Ant7	16.230
5825	Ant7	15.600

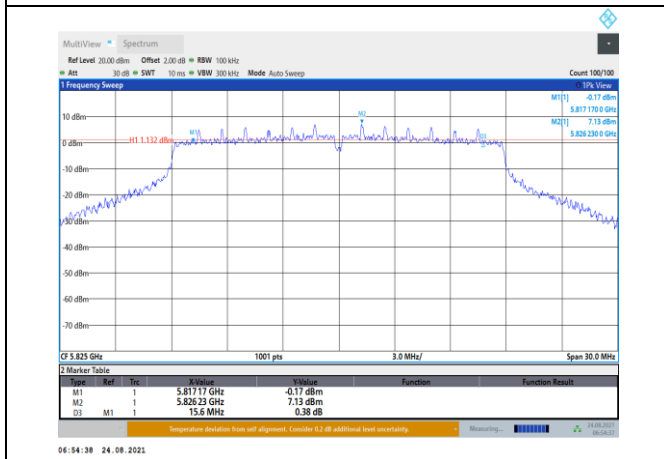
Test Mode:802.11a Ant7



Test Mode:802.11a Ant7



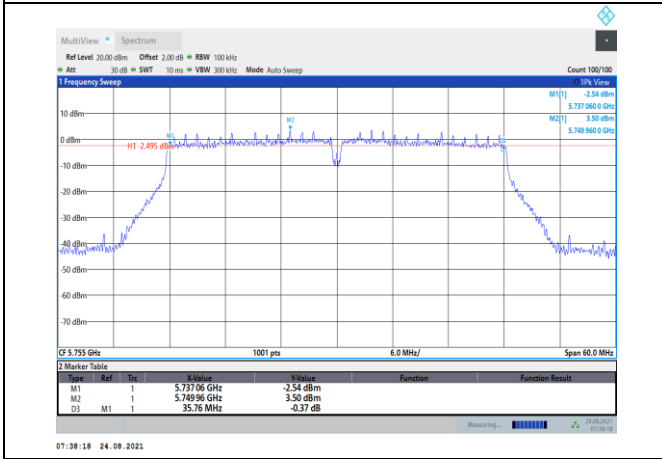
Test Mode:802.11a Ant7



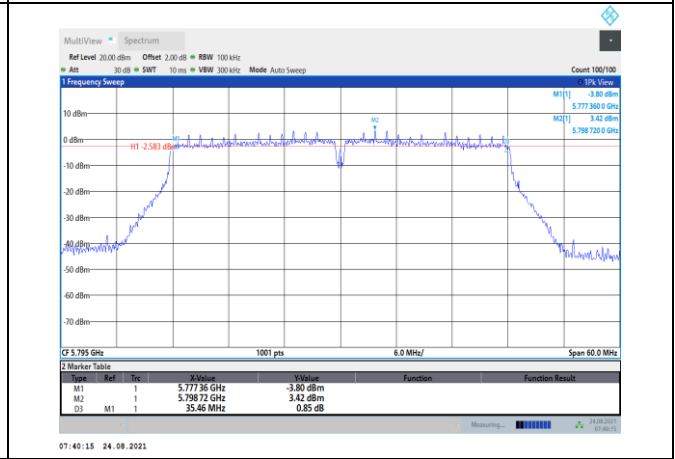
Test Mode:802.11ac VHT40

Carrier frequency (MHz)	Ant	6dB Bandwidth (MHz)
5755	Ant7	35.760
5795	Ant7	35.460

Test Mode:802.11a Ant7



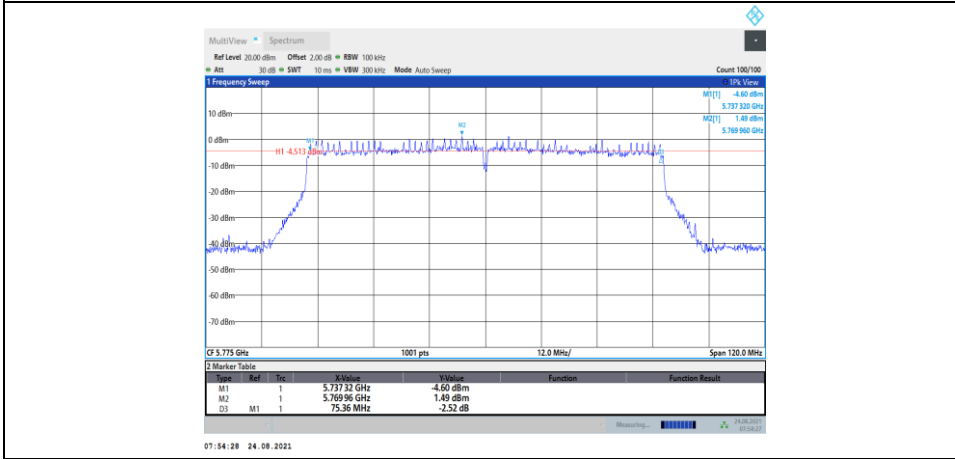
Test Mode:802.11a Ant7



Test Mode:802.11ac VHT80

Carrier frequency (MHz)	Ant	6dB Bandwidth (MHz)
5775	Ant7	75.360

Test Mode:802.11a Ant7



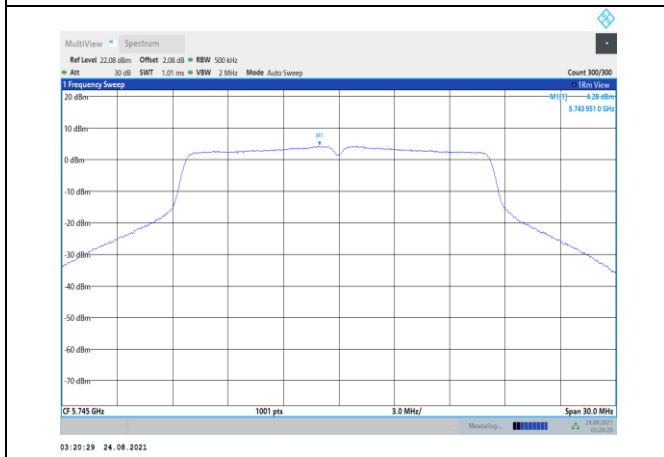
Transmitter Power Spectral Density

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

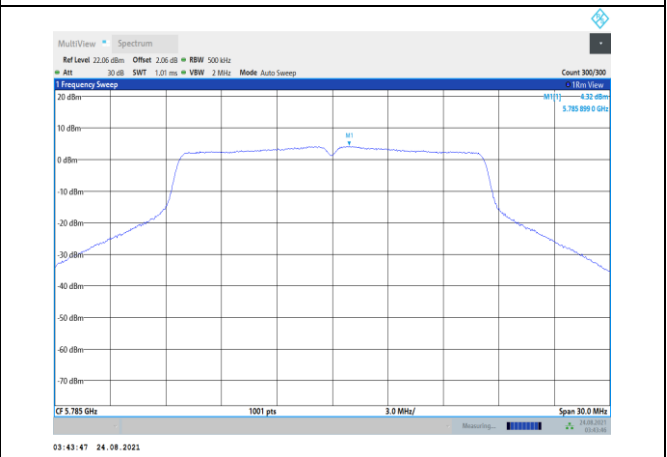
Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5745	0.08	Ant7	4.28
5785		Ant7	4.32
5825		Ant7	4.34

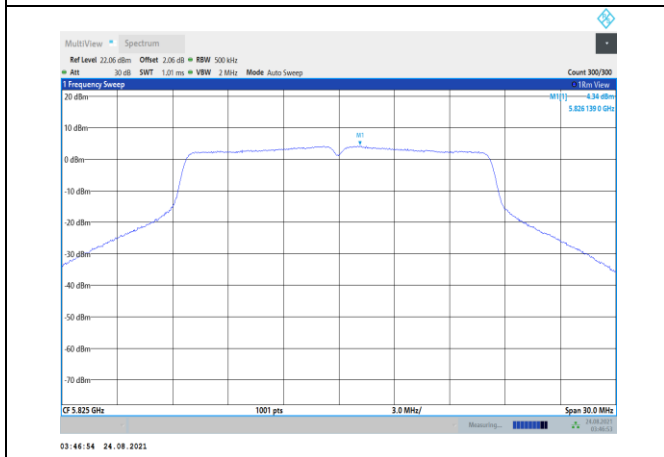
Test Mode:802.11a Ant7



Test Mode:802.11a Ant7



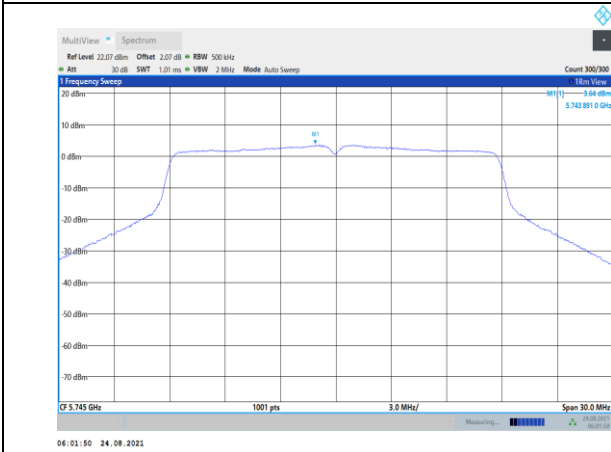
Test Mode:802.11a Ant7



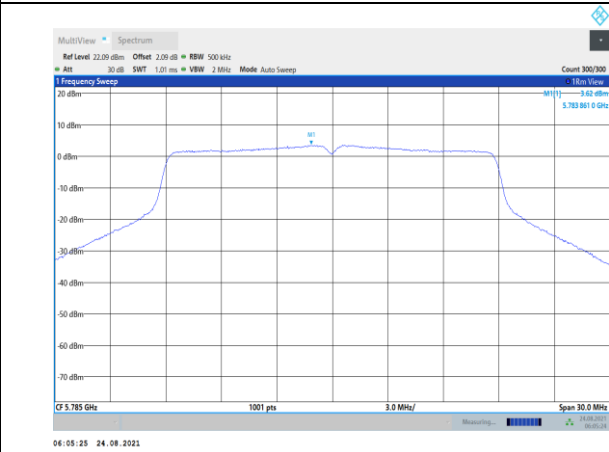
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5745	0.07	Ant7	3.64
5785		Ant7	3.62
5825		Ant7	3.63

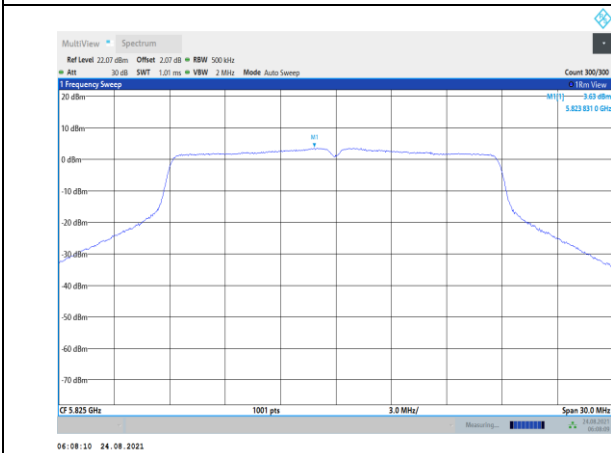
Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT20 Ant7

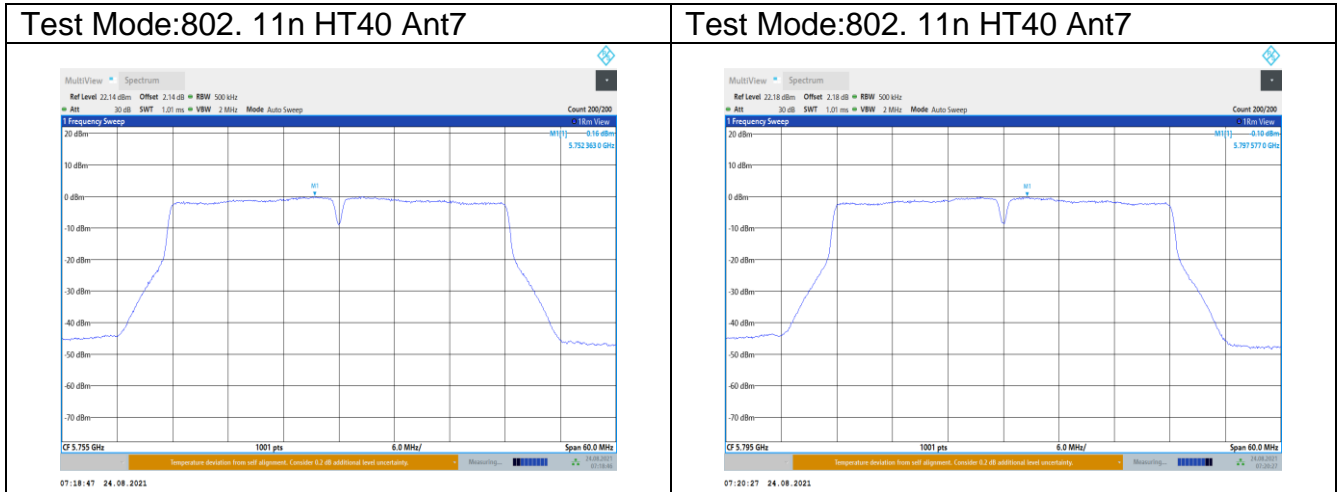


Test Mode:802. 11n HT20 Ant7



Test Mode:802. 11n HT40

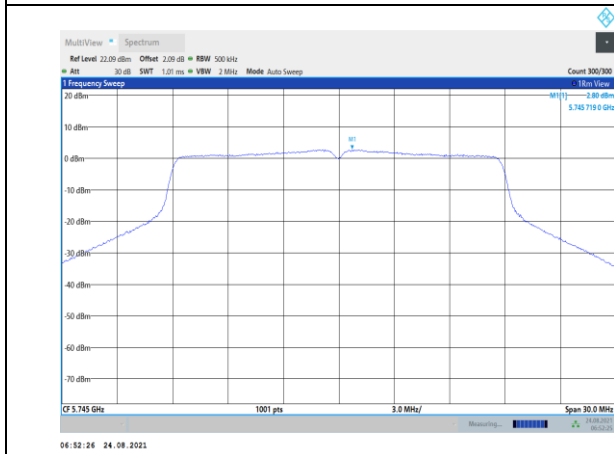
Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5755	0.14	Ant7	0.16
5795		Ant7	-0.1



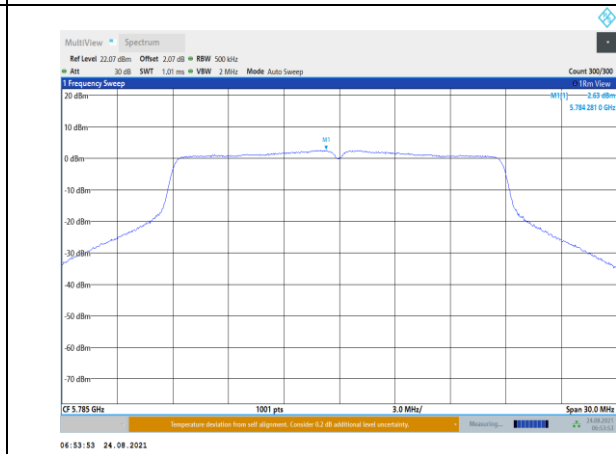
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5745	0.09	Ant7	2.8
5785		Ant7	2.63
5825		Ant7	2.68

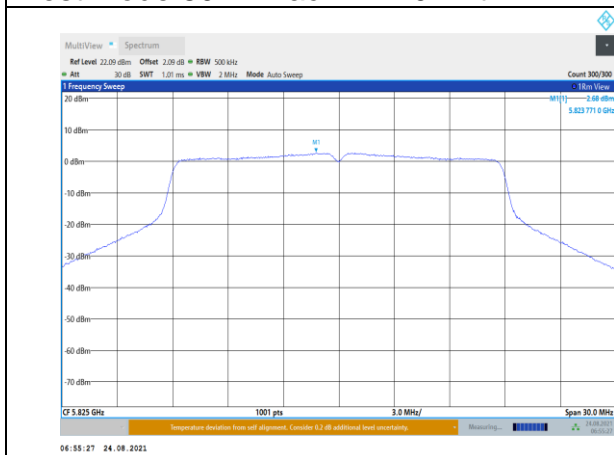
Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT20 Ant7

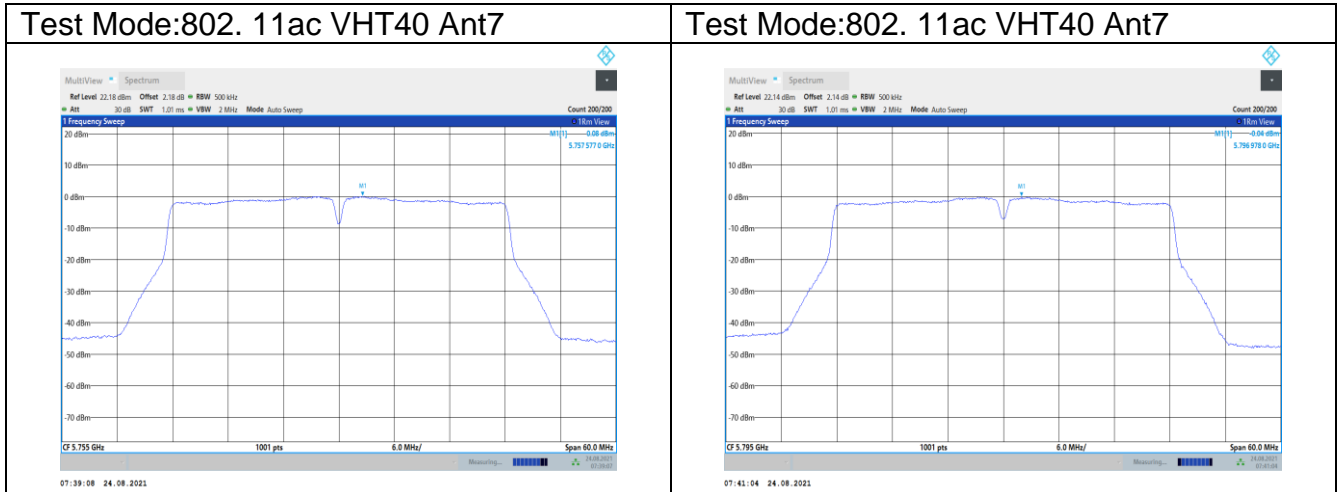


Test Mode:802. 11ac VHT20 Ant7



Test Mode:802. 11ac VHT40

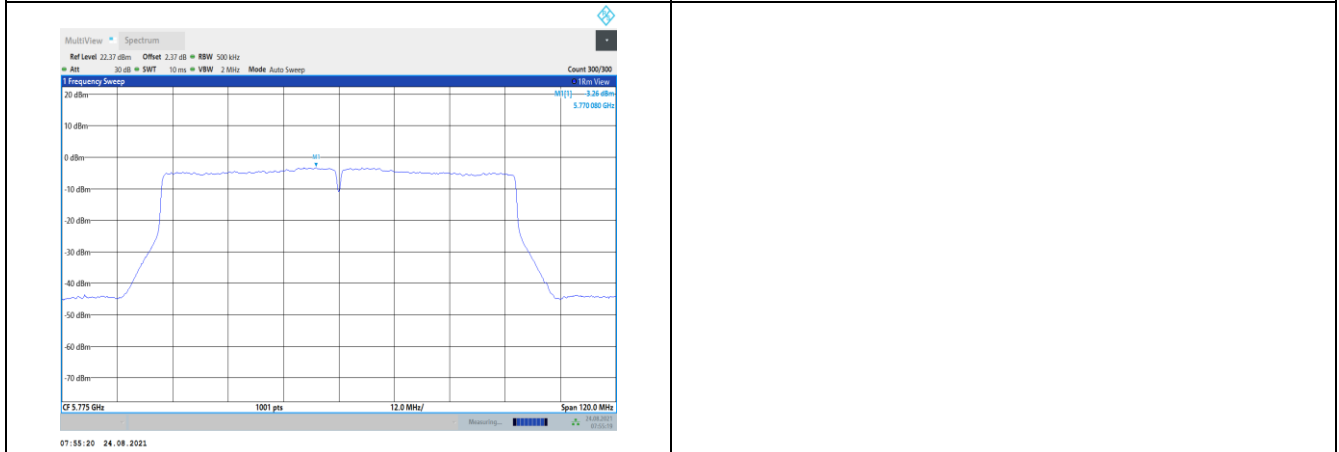
Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5755	0.18	Ant7	0.08
5795		Ant7	-0.04



Test Mode:802.11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Ant	Power Density (dBm)
5775	0.37	Ant7	-3.26

Test Mode:802.11ac VHT80 Ant7



Frequency Stability
NII3

Mode	Data Rate	Ant	Center Frequency (MHz)	Deviation Frequency (Hz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Ant7	5745	-15000	-2.610966	HV	+20
			5745	-15000	-2.610966	LV	+20
			5745	-15000	-2.610966	NV	-30
			5745	-15000	-2.610966	NV	-20
			5745	-15000	-2.610966	NV	-10
			5745	-30000	-5.221932	NV	0
			5745	-30000	-5.221932	NV	+10
			5745	-15000	-2.610966	NV	+20
			5745	-15000	-2.610966	NV	+30
			5745	-15000	-2.610966	NV	+40
			5745	-15000	-2.610966	NV	+50