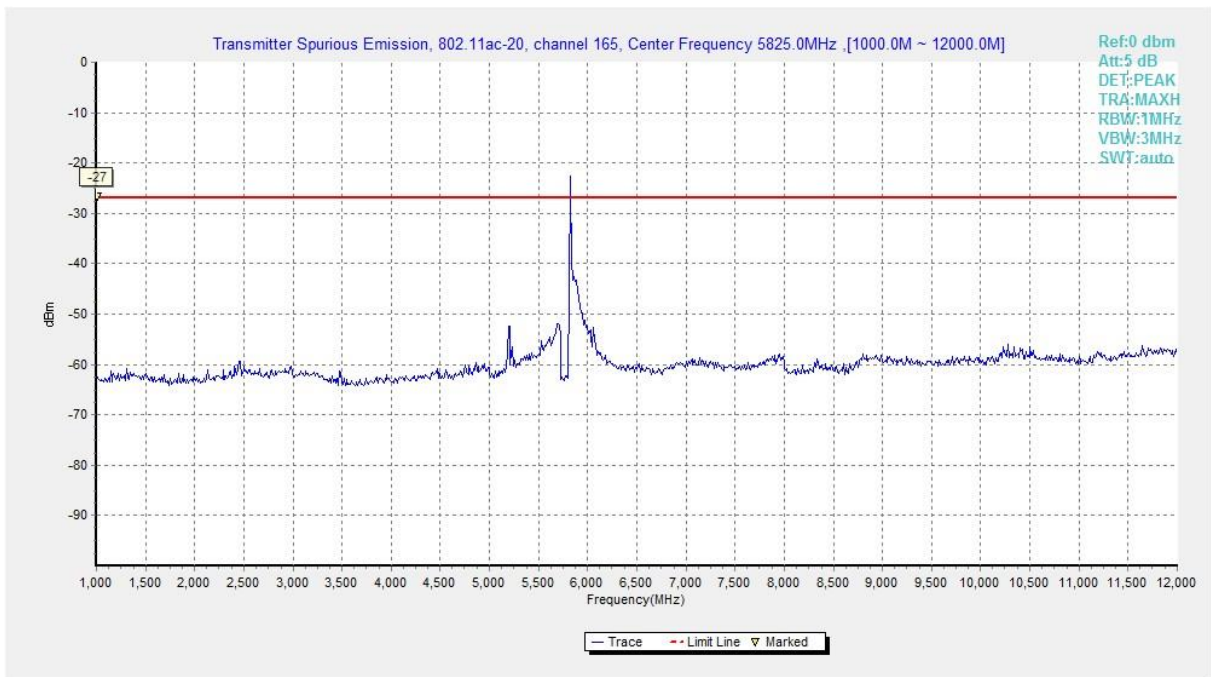
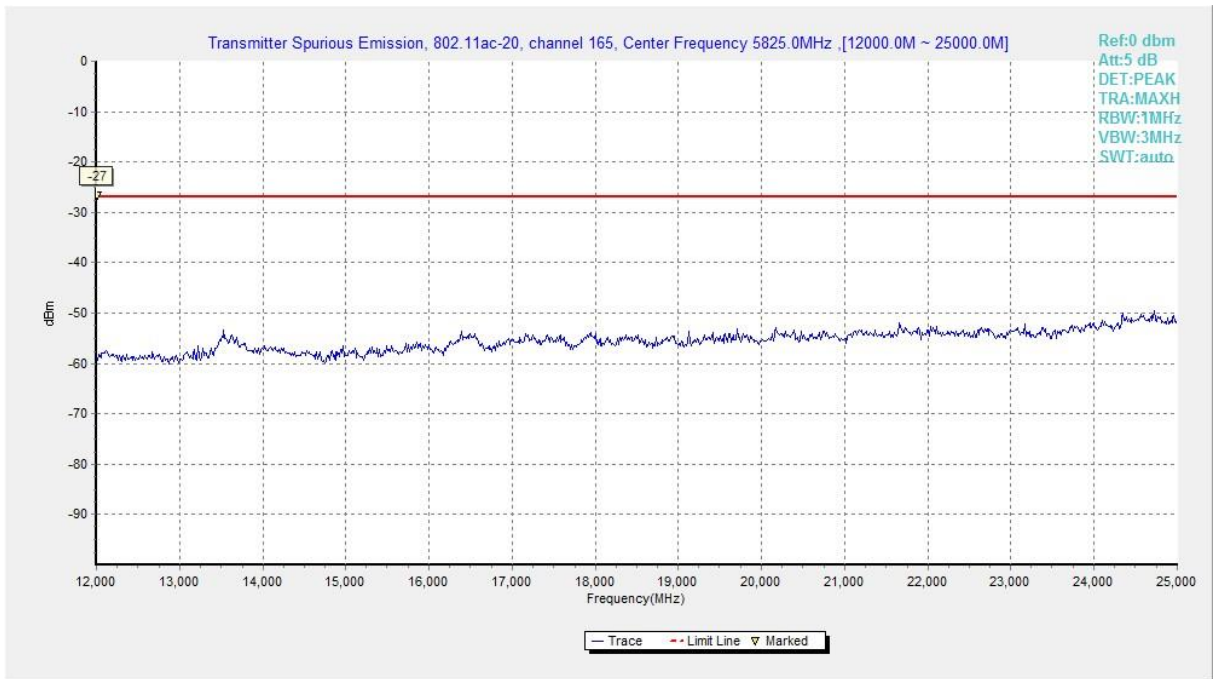


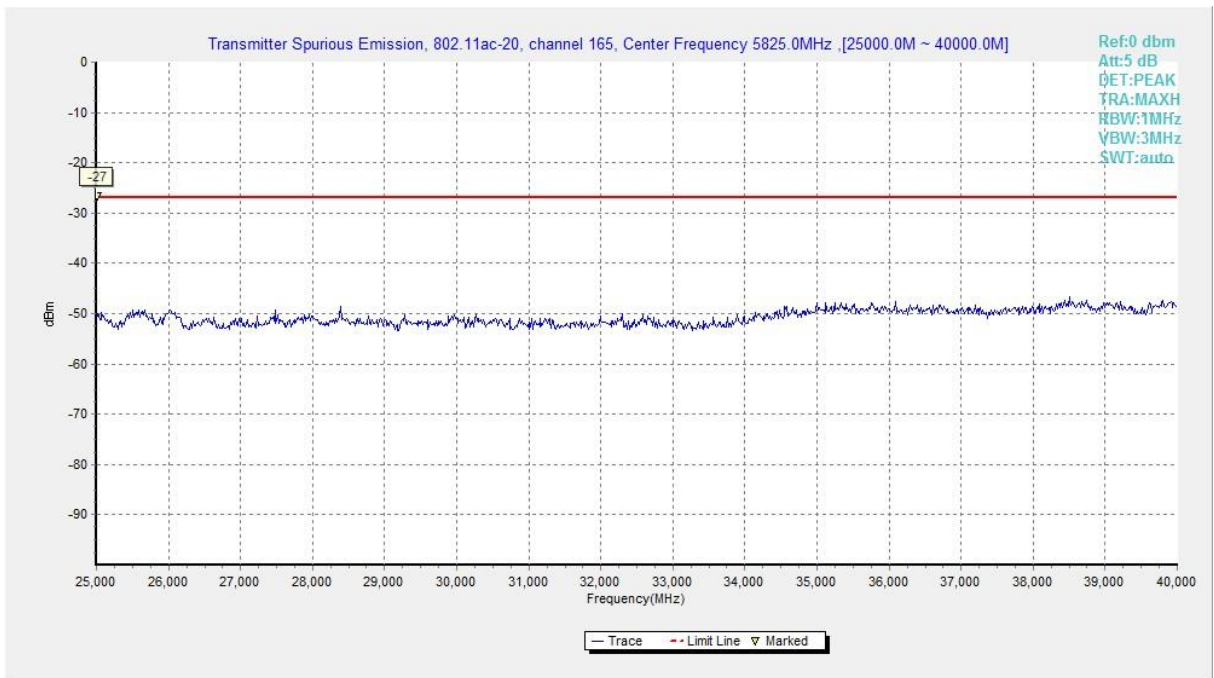
**Fig. 47 Conducted Spurious Emission (802.11ac-HT20, Ch165, 30 MHz-1 GHz)**



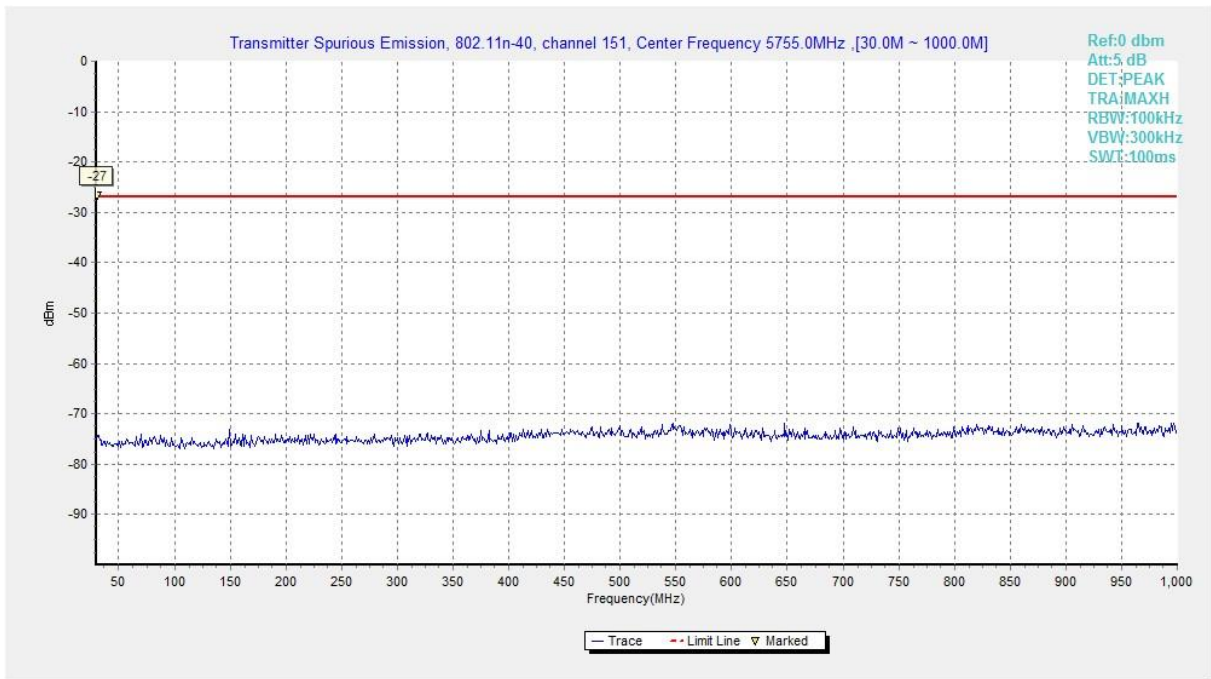
**Fig. 48 Conducted Spurious Emission (802.11ac-HT20, Ch165, 1 GHz -12 GHz)**



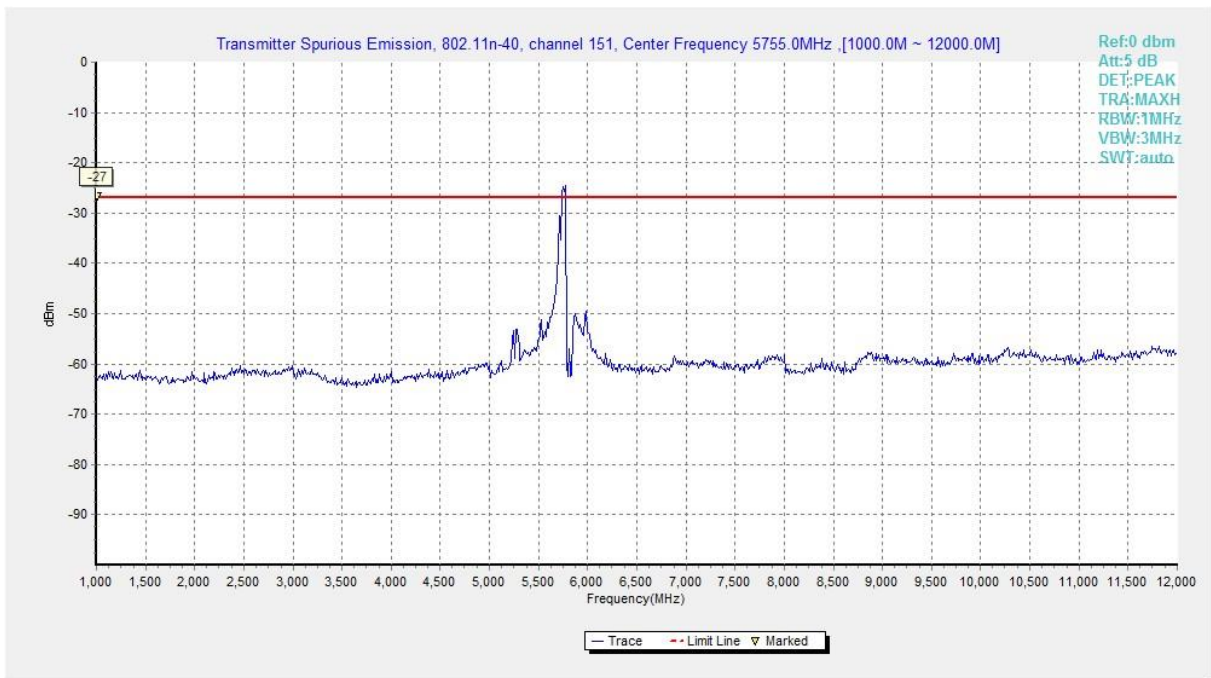
**Fig. 49 Conducted Spurious Emission (802.11ac-HT20, Ch165, 12 GHz-25 GHz)**



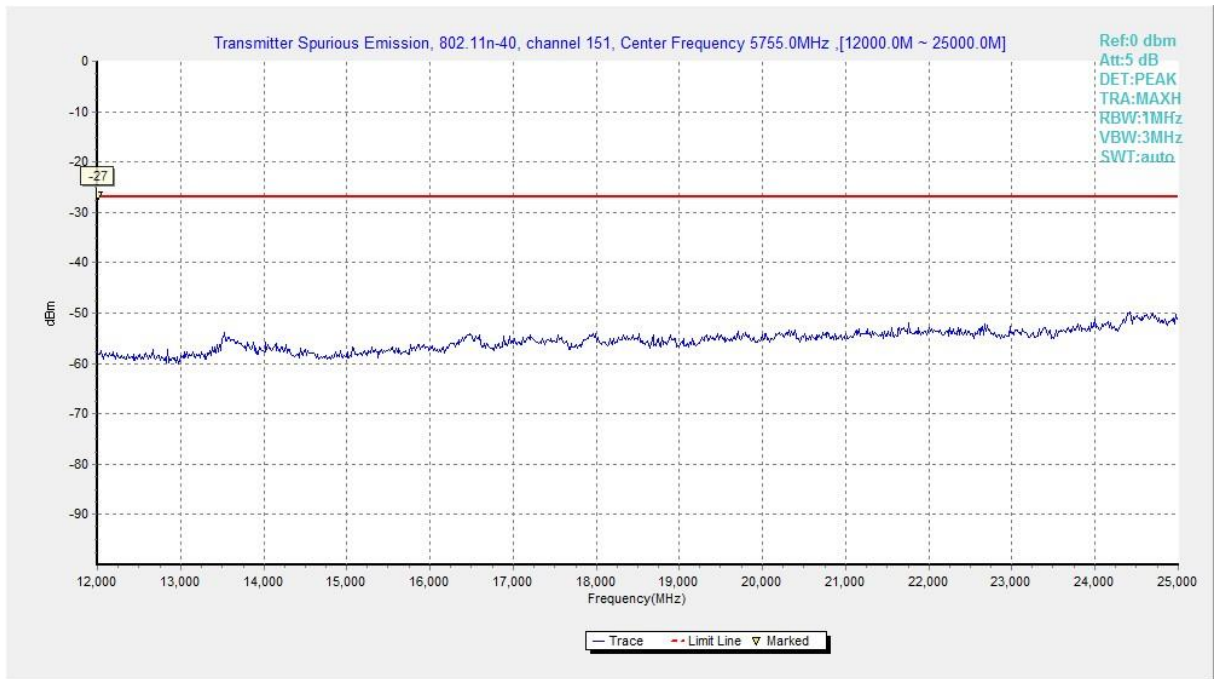
**Fig. 50 Conducted Spurious Emission (802.11ac-HT20, Ch165, 25 GHz-40 GHz)**



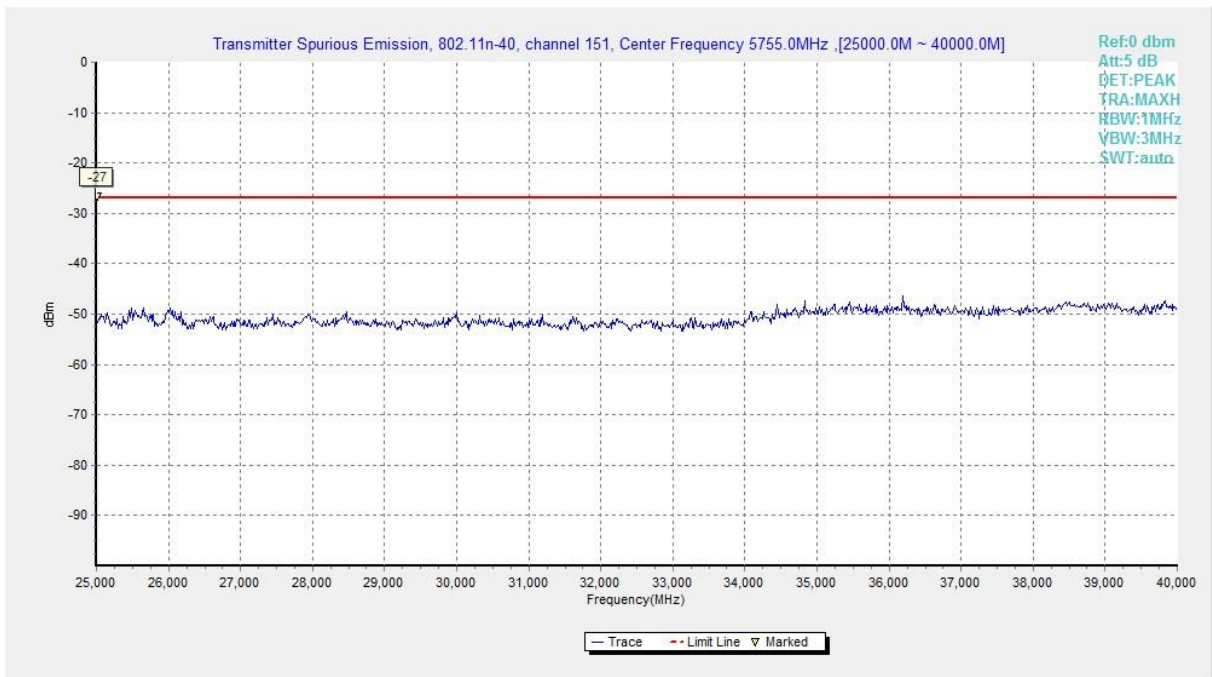
**Fig. 51 Conducted Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)**



**Fig. 52 Conducted Spurious Emission (802.11n-HT40, Ch151, 1 GHz -12 GHz)**

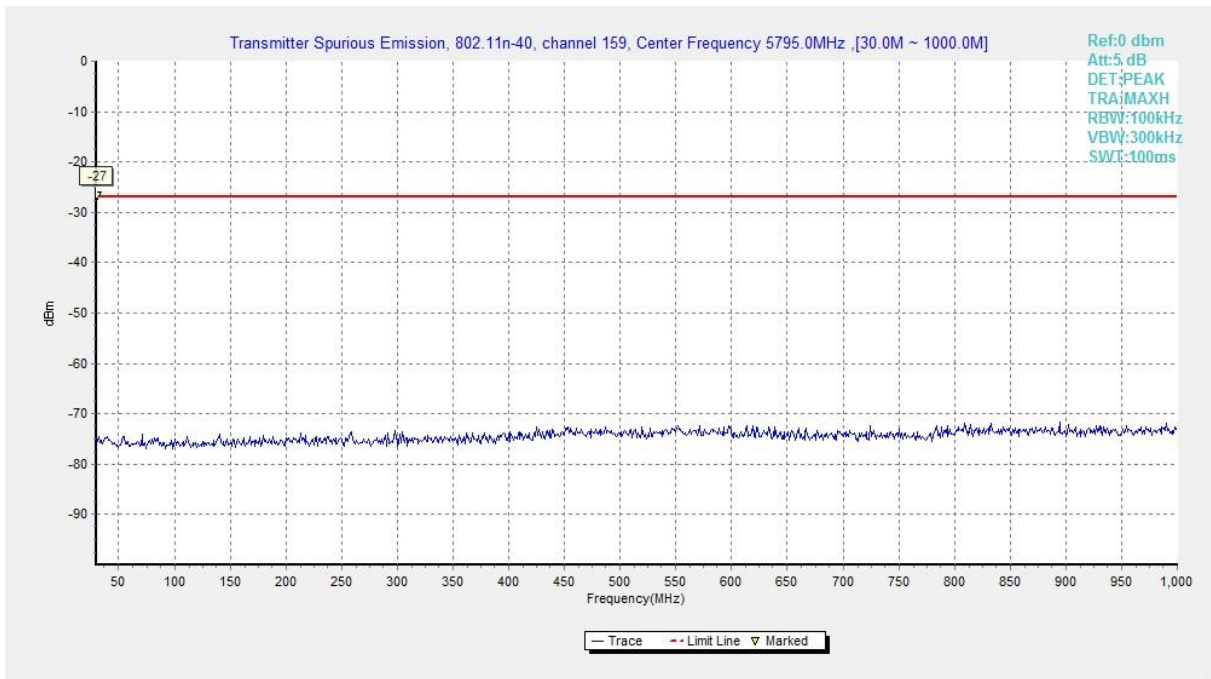


**Fig. 53 Conducted Spurious Emission (802.11n-HT40, Ch151, 12 GHz-25 GHz)**

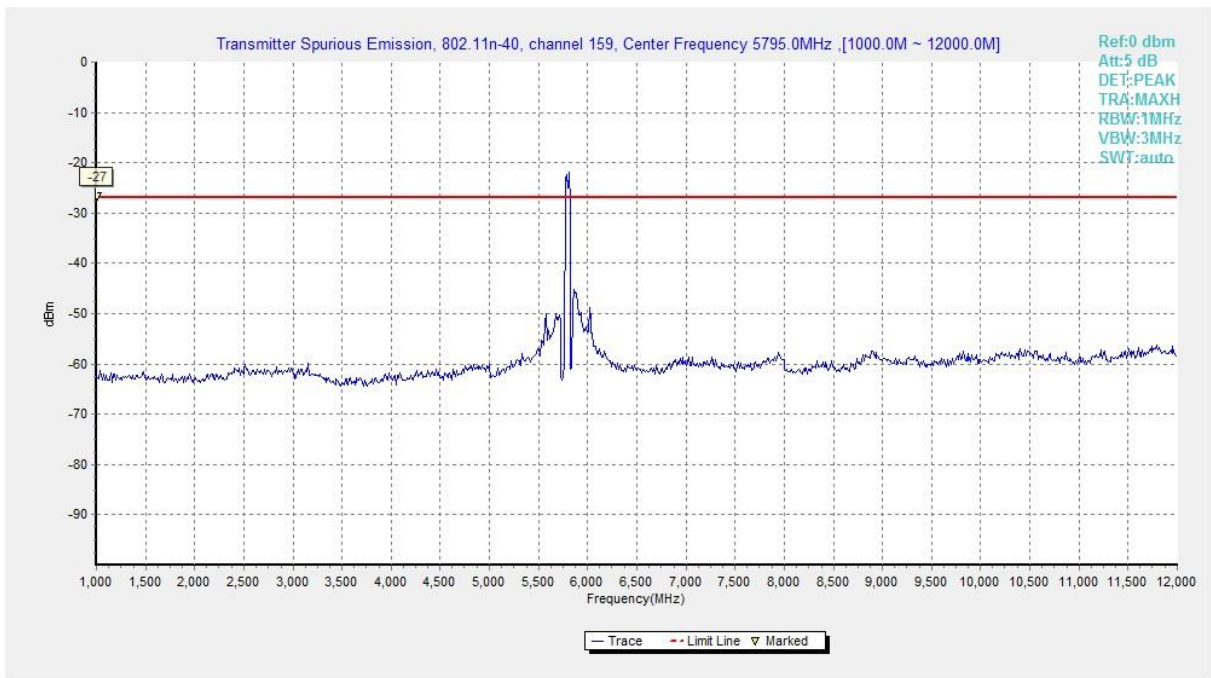


**Fig. 54 Conducted Spurious Emission (802.11n-HT40, Ch151, 25 GHz-40 GHz)**

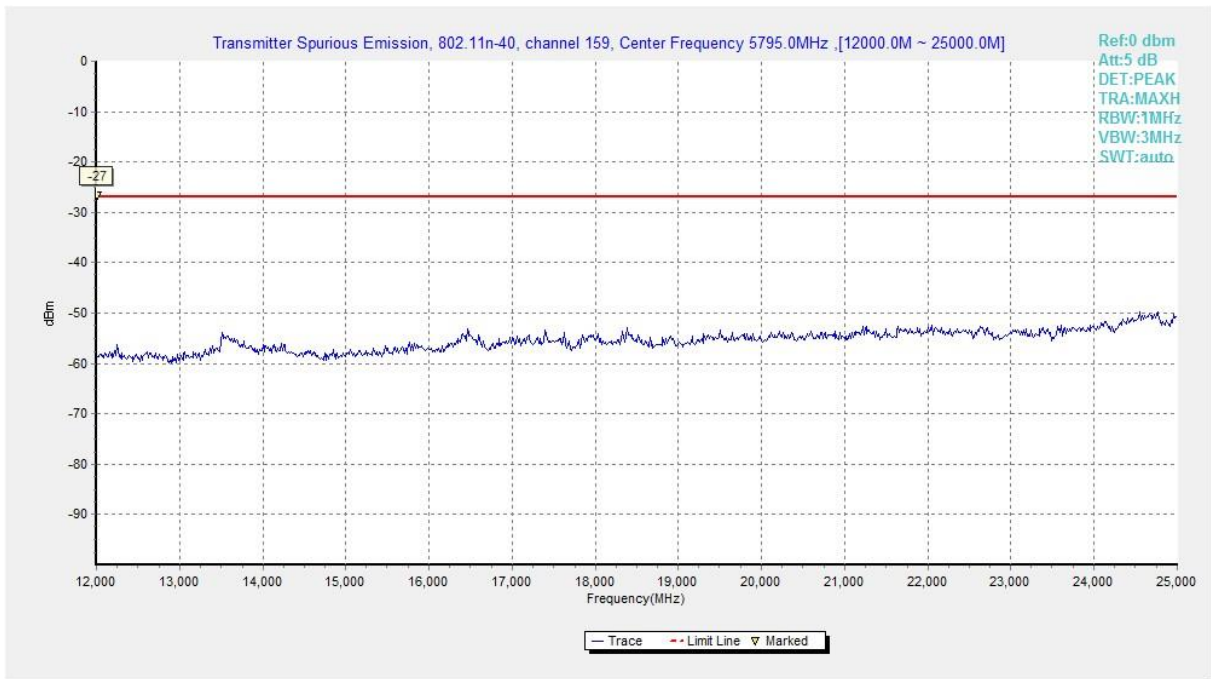




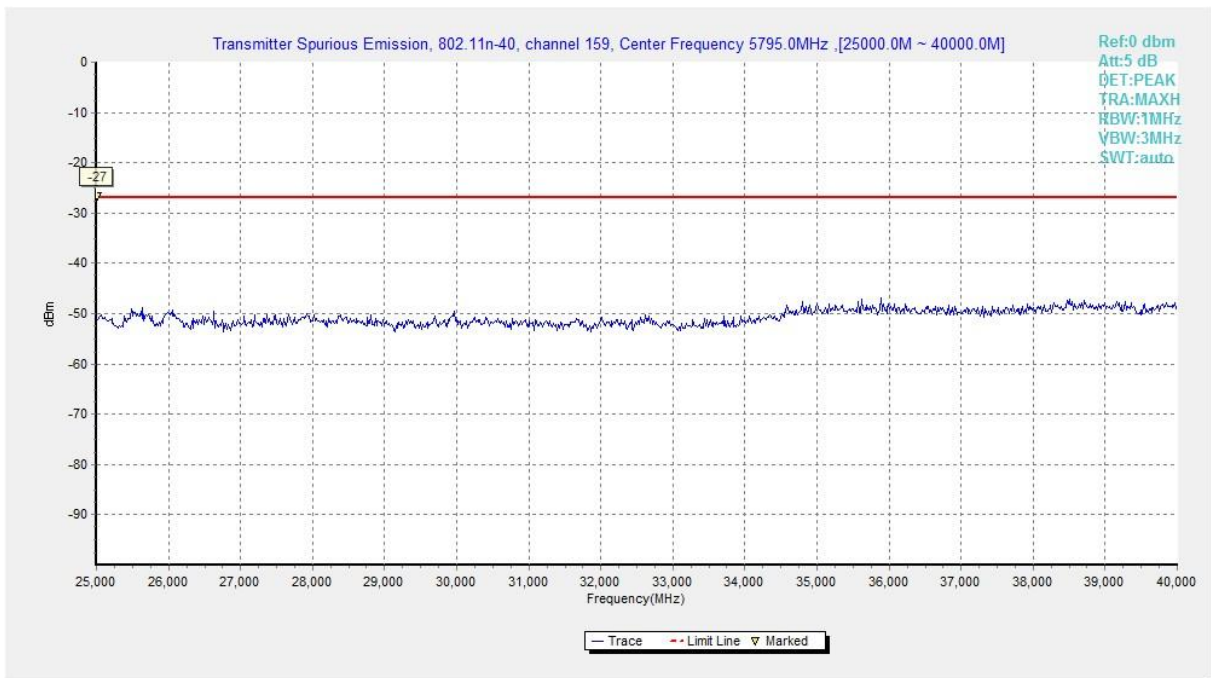
**Fig. 55 Conducted Spurious Emission (802.11n-HT40, Ch159, 30 MHz-1 GHz)**



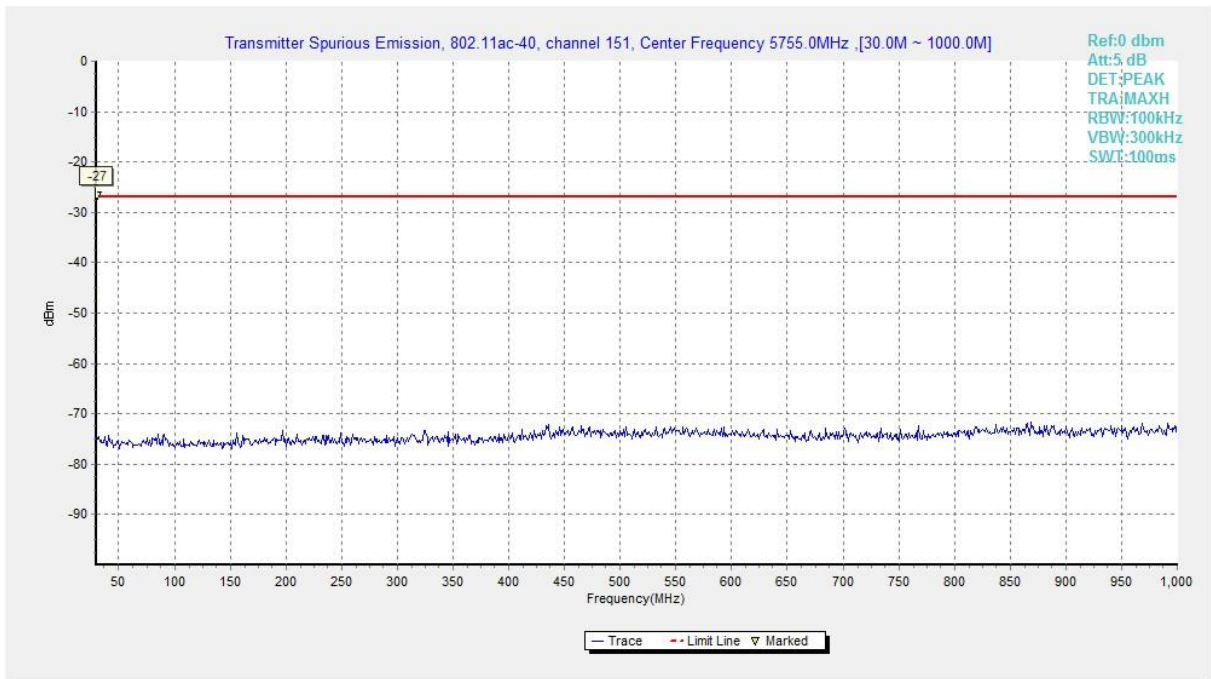
**Fig. 56 Conducted Spurious Emission (802.11n-HT40, Ch159, 1 GHz -12 GHz)**



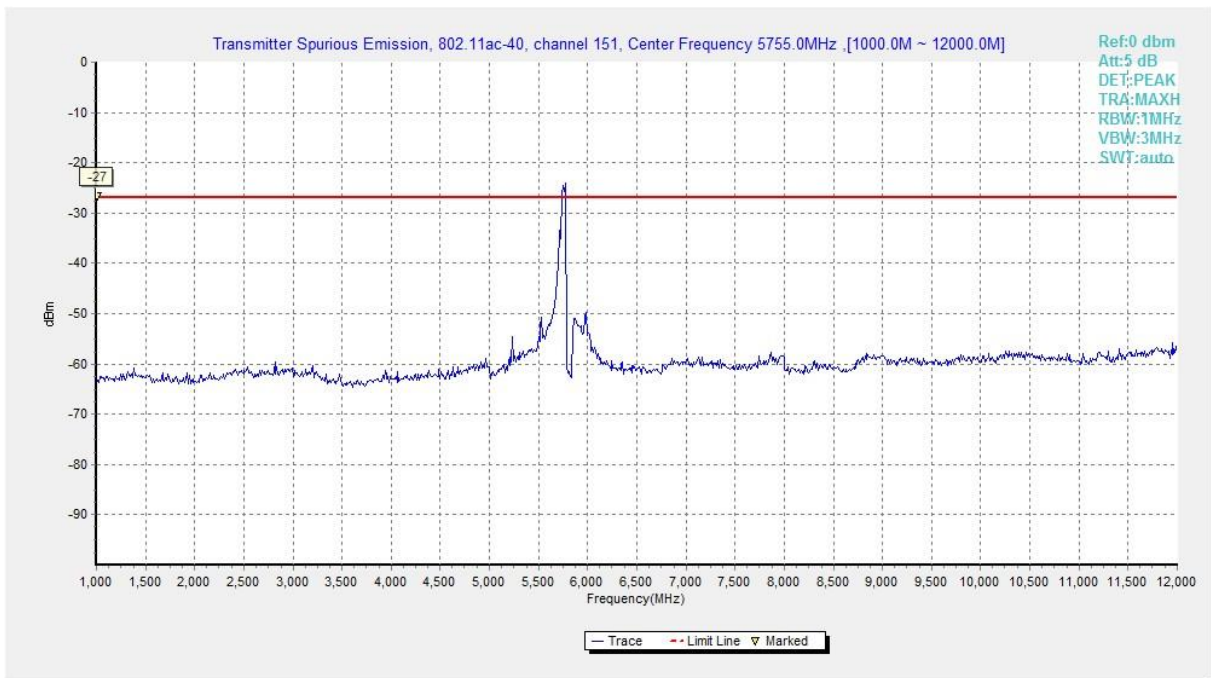
**Fig. 57 Conducted Spurious Emission (802.11n-HT40, Ch159, 12 GHz-25 GHz)**



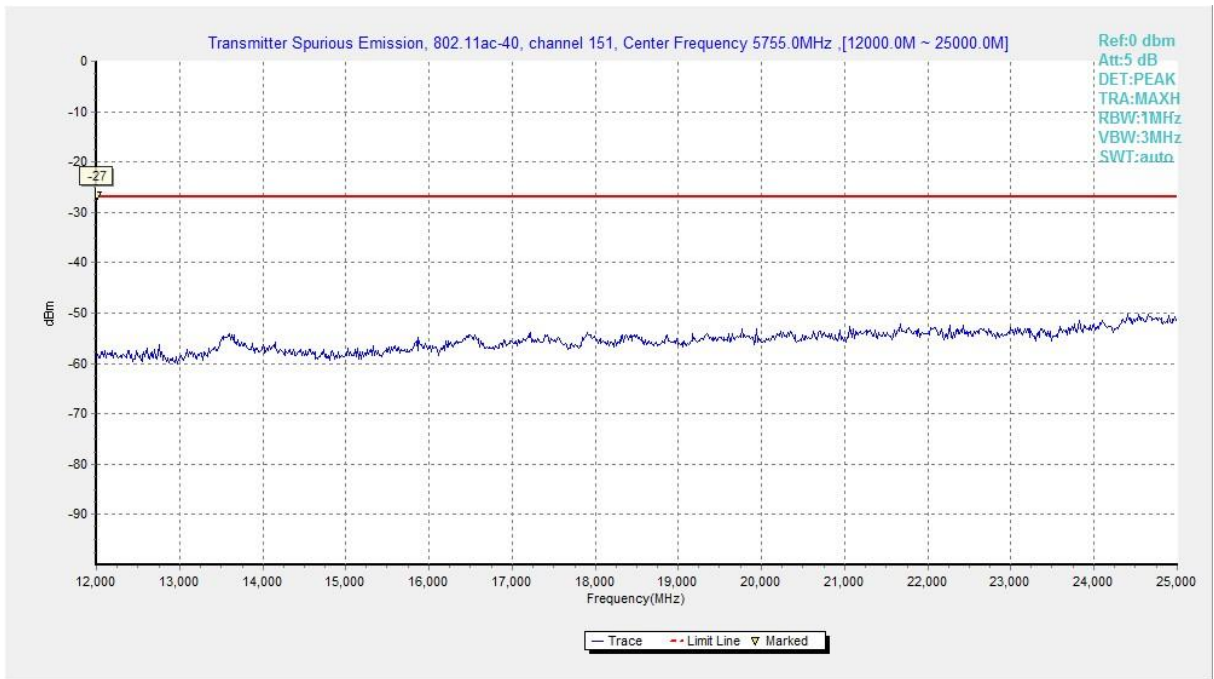
**Fig. 58 Conducted Spurious Emission (802.11n-HT40, Ch159, 25 GHz-40 GHz)**



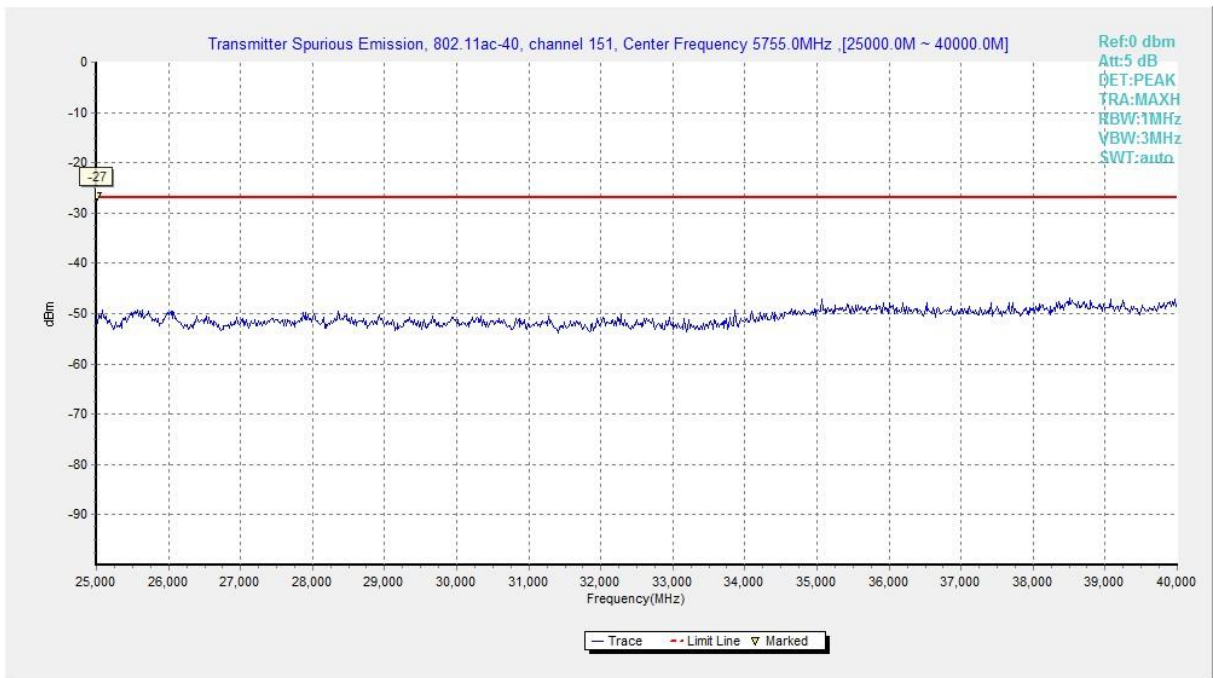
**Fig. 59 Conducted Spurious Emission (802.11ac-HT40, Ch151, 30 MHz-1 GHz)**



**Fig. 60 Conducted Spurious Emission (802.11ac-HT40, Ch151, 1 GHz -12 GHz)**

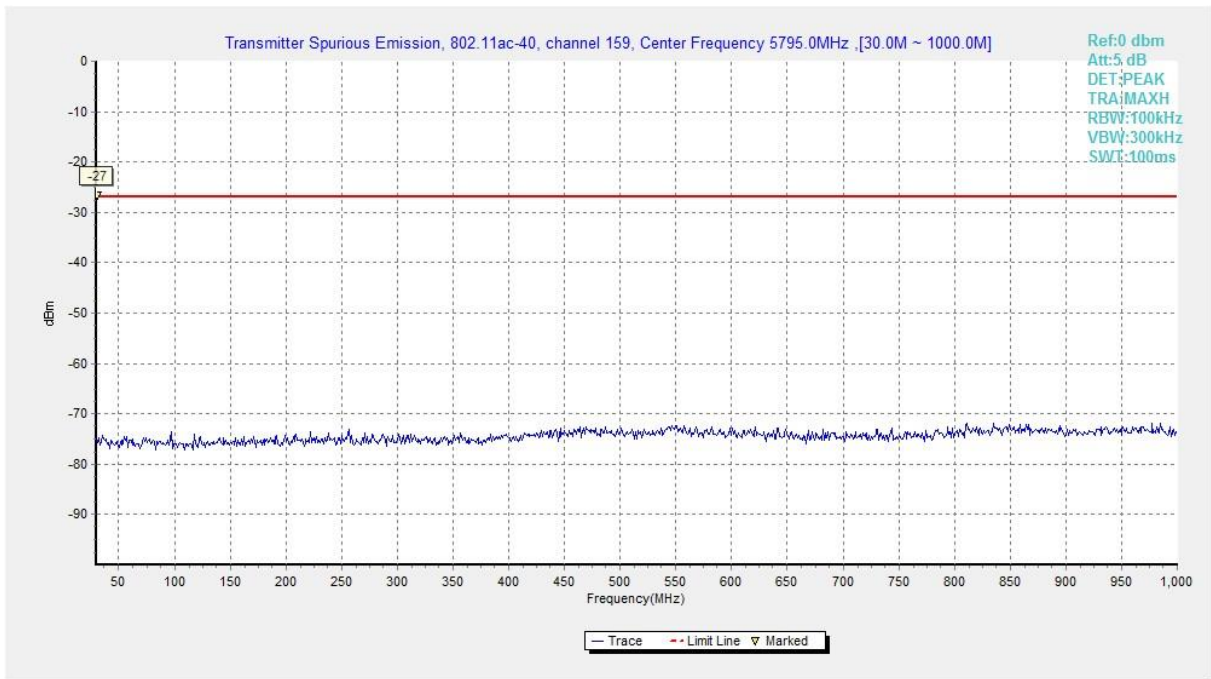


**Fig. 61 Conducted Spurious Emission (802.11ac-HT40, Ch151, 12 GHz-25 GHz)**

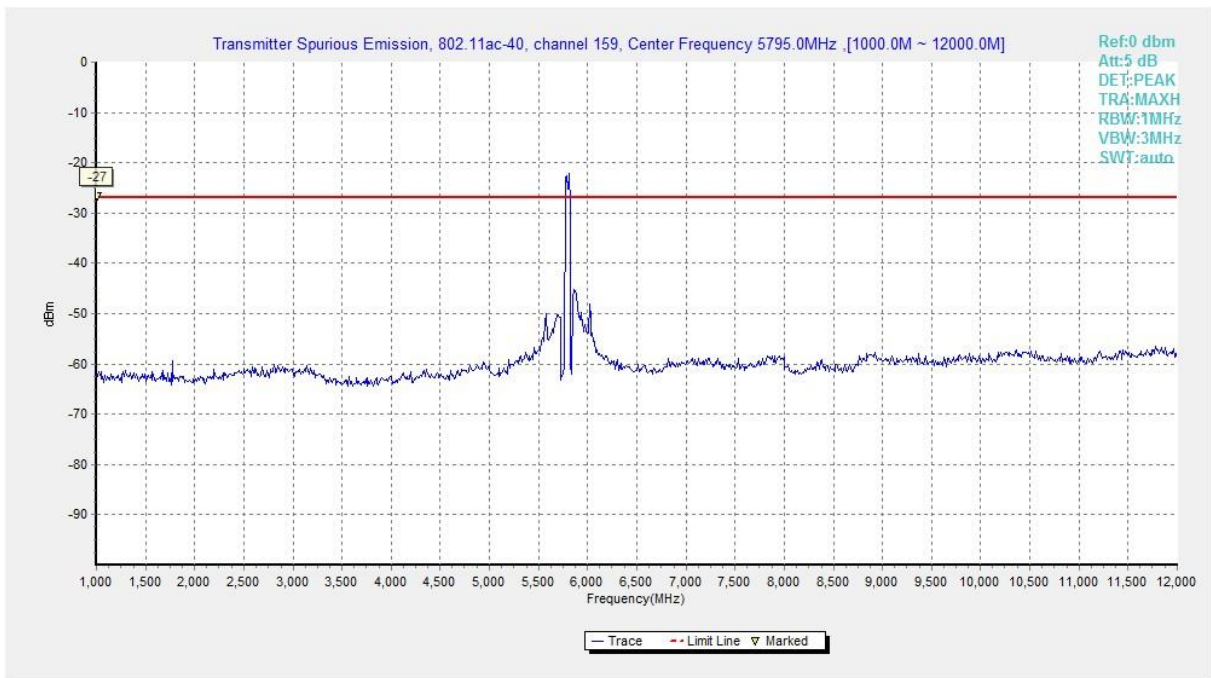


**Fig. 62 Conducted Spurious Emission (802.11ac-HT40, Ch151, 25 GHz-40 GHz)**

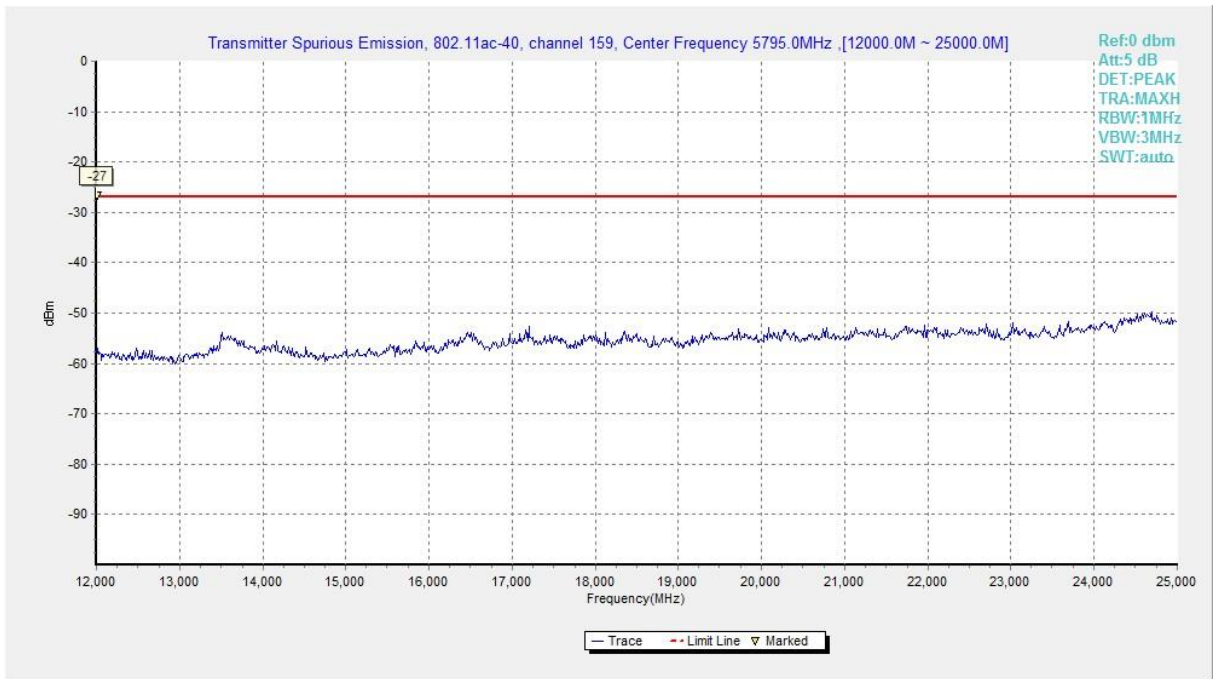




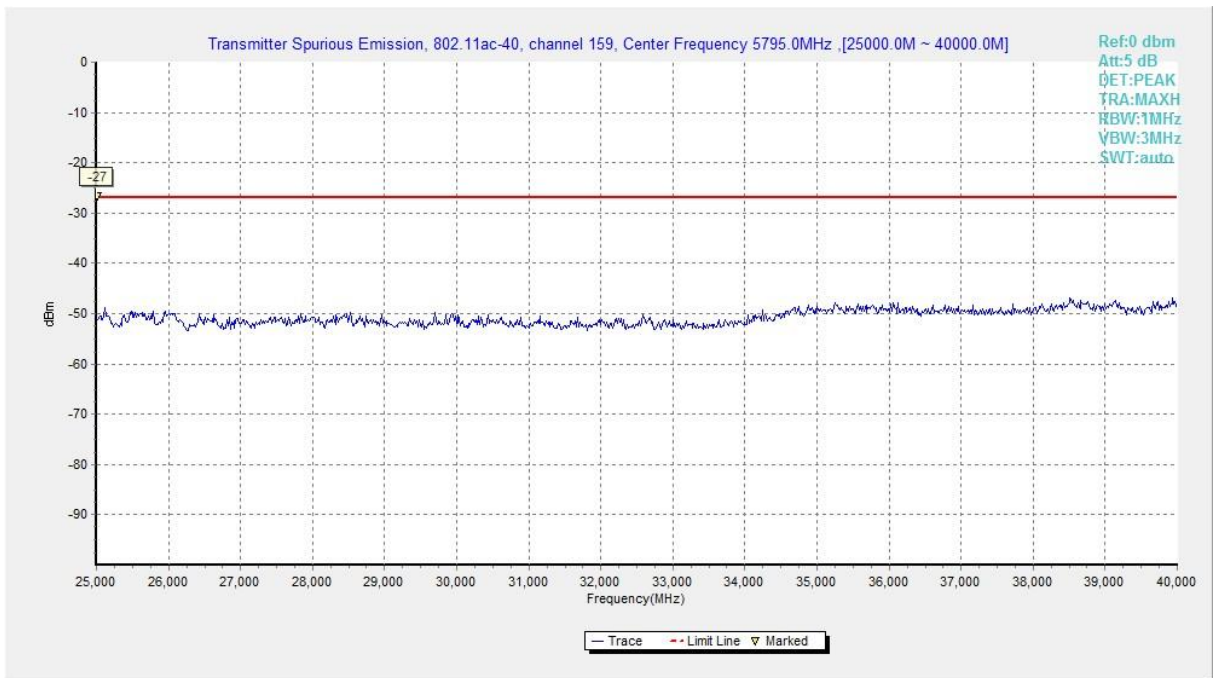
**Fig. 63 Conducted Spurious Emission (802.11ac-HT40, Ch159, 30 MHz-1 GHz)**



**Fig. 64 Conducted Spurious Emission (802.11ac-HT40, Ch159, 1 GHz -12 GHz)**



**Fig. 65 Conducted Spurious Emission (802.11ac-HT40, Ch159, 12 GHz-25 GHz)**



**Fig. 66 Conducted Spurious Emission (802.11ac-HT40, Ch159, 25 GHz-40 GHz)**

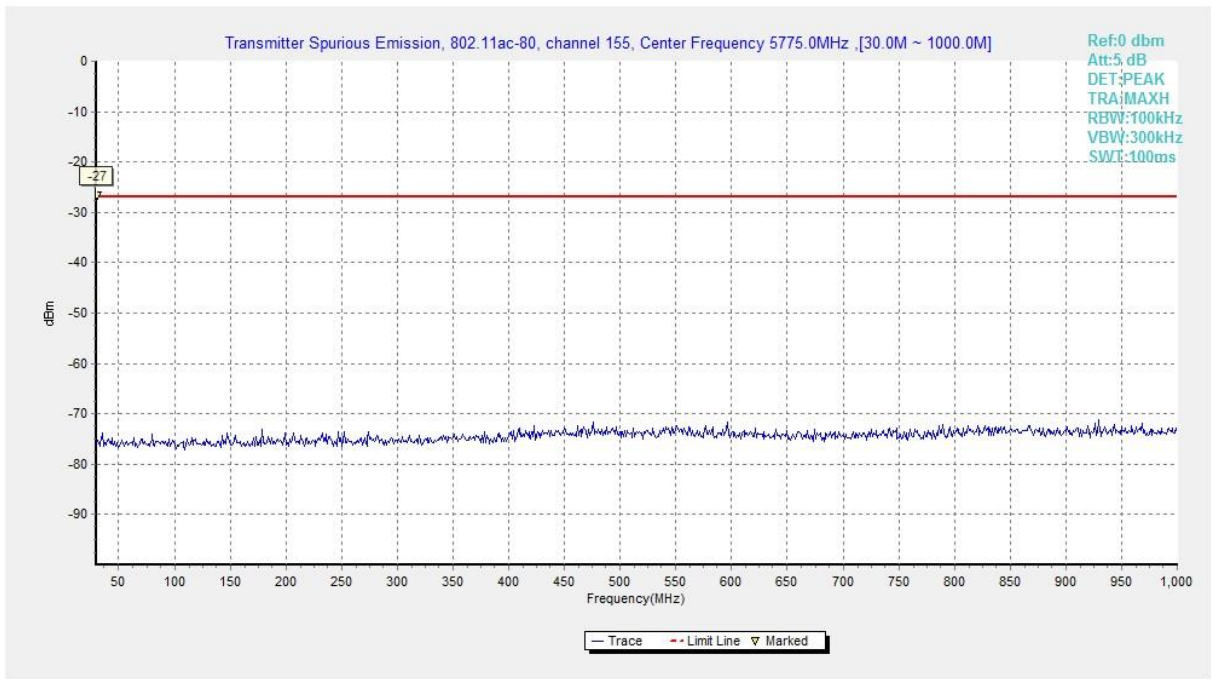


Fig. 67 Conducted Spurious Emission (802.11ac-HT80, Ch155, 30 MHz-1 GHz)

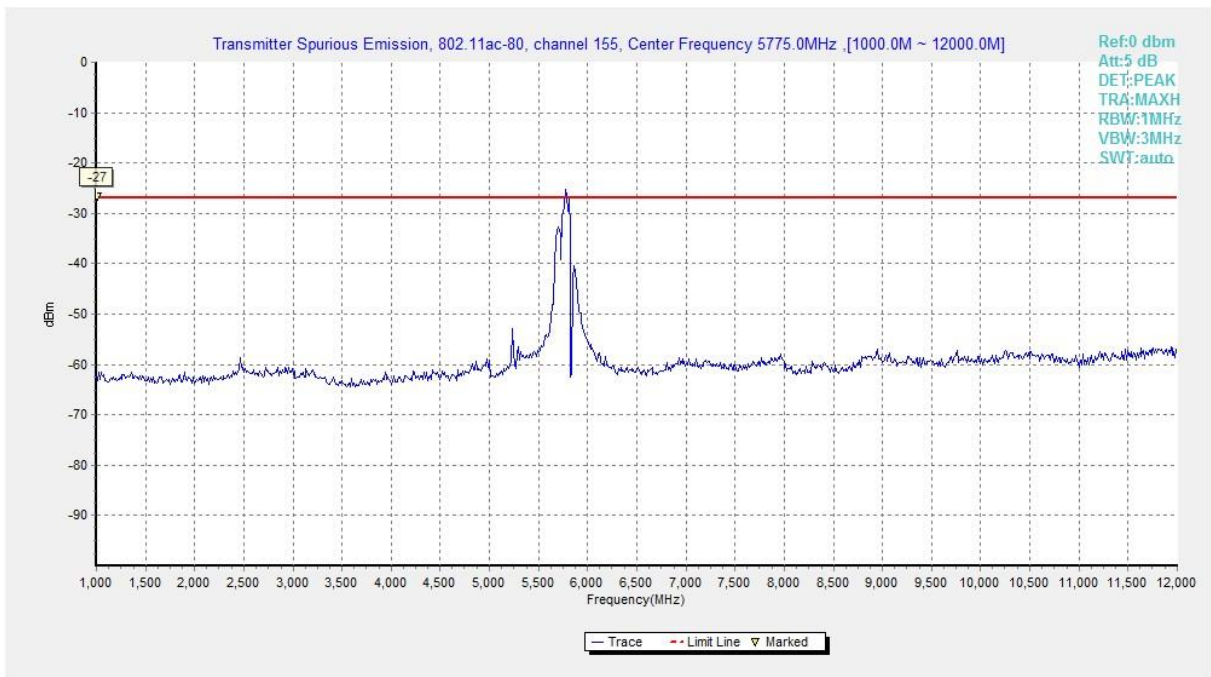
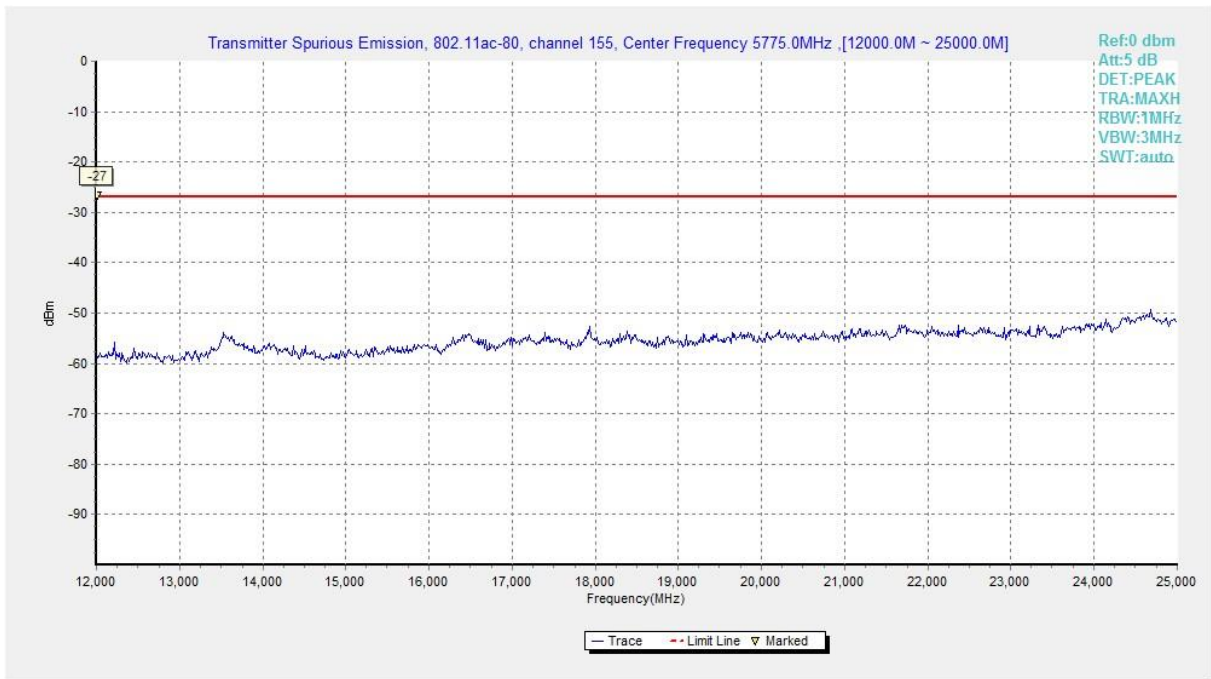
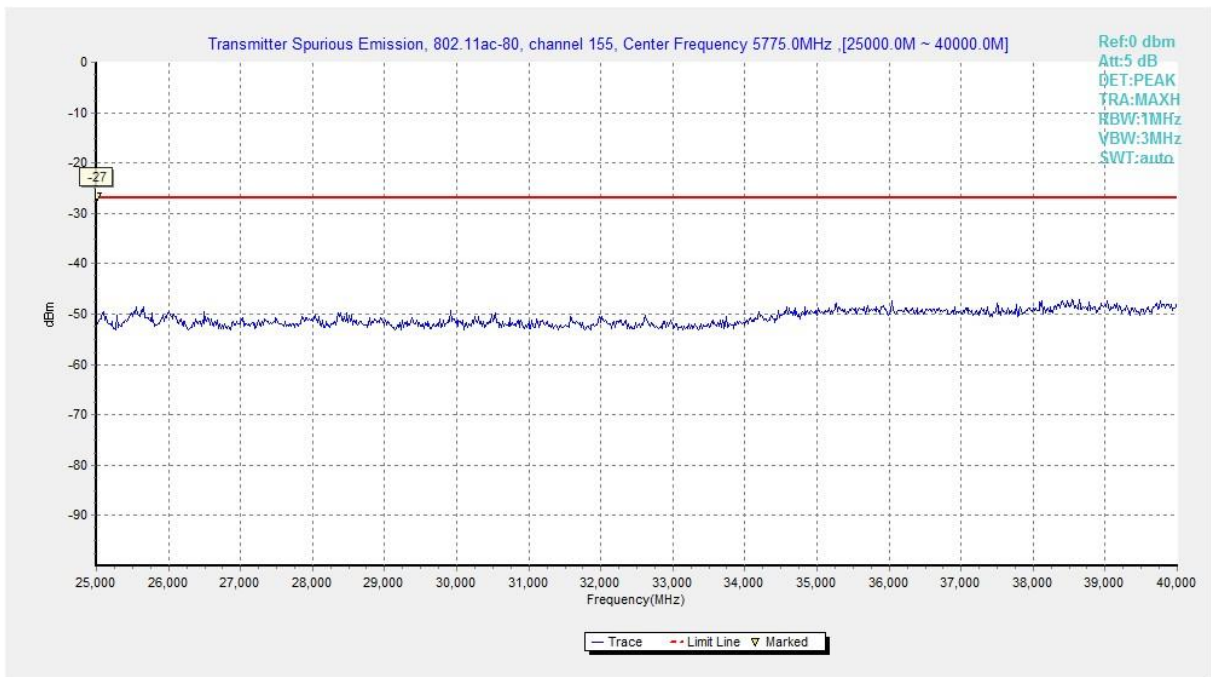


Fig. 68 Conducted Spurious Emission (802.11ac-HT80, Ch155, 1 GHz -12 GHz)



**Fig. 69 Conducted Spurious Emission (802.11ac-HT80, Ch155, 12 GHz-25 GHz)**



**Fig. 70 Conducted Spurious Emission (802.11ac-HT80, Ch155, 25 GHz-40 GHz)**



### A.5.2 Transmitter Spurious Emission - Radiated

#### Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5725MHz~5850MHz	< -27

The measurement is made according to ANSI C63.10 .

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

#### Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBµV/m)	Measurement distance(m)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

#### Measurement Results:

##### Note:

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{Mea}$  is the field strength recorded from the instrument.

#### Average Results:

##### Ant0+Ant1:

##### 802.11a

##### Ch149

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17970.3	35.5	-25.5	43.4	17.6	V
17979.1	35.3	-25.5	43.4	17.4	V
17991.2	35.3	-25.5	43.4	17.4	V
17928.5	35.2	-25.5	43.4	17.3	V
17936.2	35.2	-25.5	43.4	17.3	V
5724.9	37.6	-16.3	34.2	19.7	H

## Ch157

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17987.9	35.6	-25.5	43.4	17.7	V
17958.2	35.5	-25.5	43.4	17.6	V
17985.7	35.5	-25.5	43.4	17.6	V
17874.6	35.4	-25.5	43.4	17.5	V
17962.6	35.4	-25.5	43.4	17.5	H
17973.6	35.4	-25.5	43.4	17.5	V

## Ch165

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17958.2	35.6	-25.5	43.4	17.7	V
17967.0	35.6	-25.5	43.4	17.7	V
17960.4	35.5	-25.5	43.4	17.6	V
17976.9	35.5	-25.5	43.4	17.6	V
17979.1	35.5	-25.5	43.4	17.6	V
5851.2	36.8	-16.2	34.2	18.8	H

**802.11n-HT20**

## Ch149

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17987.9	35.7	-25.5	43.4	17.8	V
17962.6	35.5	-25.5	43.4	17.6	H
17972.5	35.5	-25.5	43.4	17.6	V
17971.4	35.4	-25.5	43.4	17.5	V
17973.6	35.4	-25.5	43.4	17.5	V
5724.4	38.2	-16.3	34.2	20.3	V

## Ch157

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17980.2	35.6	-25.5	43.4	17.7	V
17868.0	35.4	-25.5	43.4	17.5	V
17974.7	35.4	-25.5	43.4	17.5	V
17979.1	35.4	-25.5	43.4	17.5	V
17985.7	35.4	-25.5	43.4	17.5	V
17994.5	35.4	-25.5	43.4	17.5	V

## Ch165

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17968.1	35.7	-25.5	43.4	17.8	V
17972.5	35.7	-25.5	43.4	17.8	V
17976.9	35.7	-25.5	43.4	17.8	V
17959.3	35.6	-25.5	43.4	17.7	V
17975.8	35.6	-25.5	43.4	17.7	V
5850.0	36.6	-16.2	34.2	18.6	H

**802.11n-HT40**

## Ch151

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17973.6	35.7	-25.5	43.4	17.8	V
17950.5	35.6	-25.5	43.4	17.7	V
17979.1	35.6	-25.5	43.4	17.7	V
17982.4	35.6	-25.5	43.4	17.7	V
17994.5	35.5	-25.5	43.4	17.6	V
5723.7	40.1	-16.3	34.2	22.2	H

## Ch159

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17975.8	35.7	-25.5	43.4	17.8	V
17967.0	35.6	-25.5	43.4	17.7	V
17983.5	35.5	-25.5	43.4	17.6	V
17994.5	35.5	-25.5	43.4	17.6	H
17964.8	35.4	-25.5	43.4	17.5	H
5853.1	36.5	-16.2	34.2	18.5	H

**802.11ac-HT20**

## Ch149

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17957.1	35.6	-25.5	43.4	17.7	V
17965.9	35.6	-25.5	43.4	17.7	V
17981.3	35.6	-25.5	43.4	17.7	V
17974.7	35.5	-25.5	43.4	17.6	V
17976.9	35.5	-25.5	43.4	17.6	V
5724.9	38.5	-16.3	34.2	20.6	H

## Ch157

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17982.4	35.7	-25.5	43.4	17.8	V
17962.6	35.6	-25.5	43.4	17.7	V
17969.2	35.6	-25.5	43.4	17.7	V
17972.5	35.6	-25.5	43.4	17.7	V
17995.6	35.6	-25.5	43.4	17.7	V
17991.2	35.5	-25.5	43.4	17.6	V



## Ch165

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17970.3	36.0	-25.5	43.4	18.1	V
17979.1	35.7	-25.5	43.4	17.8	V
17987.9	35.7	-25.5	43.4	17.8	V
17872.4	35.5	-25.5	43.4	17.6	V
17956.0	35.5	-25.5	43.4	17.6	V
5850.0	36.7	-16.2	34.2	18.7	V

**802.11ac-HT40**

## Ch151

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17987.9	35.8	-25.5	43.4	17.9	V
17974.7	35.7	-25.5	43.4	17.8	H
17936.2	35.5	-25.5	43.4	17.6	V
17989.0	35.5	-25.5	43.4	17.6	V
17964.8	35.4	-25.5	43.4	17.5	V
5723.3	40.7	-16.3	34.2	22.8	H

## Ch159

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17996.7	35.8	-25.5	43.4	17.9	V
17987.9	35.7	-25.5	43.4	17.8	H
17991.2	35.6	-25.5	43.4	17.7	H
17993.4	35.6	-25.5	43.4	17.7	H
17989.0	35.5	-25.5	43.4	17.6	H
5851.1	36.7	-16.2	34.2	18.7	H

**802.11ac-HT80**

Ch155

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
5725.0	38.3	-33.8	34.2	22.2	H
17982.4	35.6	-17.7	43.4	17.8	H
17983.5	35.6	-17.7	43.4	17.7	V
17962.6	35.4	-17.7	43.4	17.6	H
17980.2	35.4	-17.7	43.4	17.6	H
17957.1	35.4	-17.7	43.4	17.5	H

**Peak Results:**
**802.11a**

Ch149

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17945.0	48.6	-25.5	43.4	30.7	V
17338.9	47.3	-25.9	40.1	33.1	V
17928.5	47.3	-25.5	43.4	29.4	V
17308.1	47.1	-25.9	40.1	32.9	V
17985.7	46.8	-25.5	43.4	28.9	V
5723.4	50.1	-16.3	34.2	32.2	H

Ch157

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17907.6	48.7	-25.5	43.4	30.8	V
17576.5	47.7	-25.7	43.4	30	V
17865.8	47.7	-25.5	43.4	29.8	V
17925.2	47.2	-25.5	43.4	29.3	V
17976.9	47.2	-25.5	43.4	29.3	V
17979.1	47.2	-25.5	43.4	29.3	V

## Ch165

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17928.5	47.4	-25.5	43.4	29.5	V
17783.3	47.3	-25.5	43.4	29.4	V
17961.5	47.3	-25.5	43.4	29.4	V
17854.8	47.2	-25.5	43.4	29.3	H
17880.1	47.1	-25.5	43.4	29.2	H
5868.4	49.1	-16.2	34.2	31.1	V

**802.11n-HT20**

## Ch149

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17894.4	48.7	-25.5	43.4	30.8	V
17905.4	47.4	-25.5	43.4	29.5	H
17949.4	47.4	-25.5	43.4	29.5	H
17947.2	47.3	-25.5	43.4	29.4	H
17855.9	47.2	-25.5	43.4	29.3	V
5724.4	49.9	-16.3	34.2	32	V

## Ch157

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17991.2	47.4	-25.5	43.4	29.5	V
17982.4	47.3	-25.5	43.4	29.4	H
17961.5	47.2	-25.5	43.4	29.3	H
17939.5	47.1	-25.5	43.4	29.2	H
17704.1	47.0	-25.7	43.4	29.3	V
17919.7	47.0	-25.5	43.4	29.1	V

## Ch165

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17913.1	47.6	-25.5	43.4	29.7	V
17826.2	47.5	-25.5	43.4	29.6	V
17861.4	47.3	-25.5	43.4	29.4	V
17883.4	47.2	-25.5	43.4	29.3	H
17926.3	47.2	-25.5	43.4	29.3	V
5853.3	49.1	-16.2	34.2	31.1	H

**802.11n-HT40**

## Ch151

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17439.0	47.6	-26.9	43.4	31.1	V
17870.2	47.5	-25.5	43.4	29.6	H
17973.6	47.5	-25.5	43.4	29.6	V
17980.2	47.3	-25.5	43.4	29.4	H
17486.3	47.0	-26.9	43.4	30.5	V
5723.4	52.4	-16.3	34.2	34.5	H

## Ch159

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17980.2	47.7	-25.5	43.4	29.8	H
17895.5	47.6	-25.5	43.4	29.7	H
17996.7	47.5	-25.5	43.4	29.6	H
17975.8	47.4	-25.5	43.4	29.5	V
17978.0	47.2	-25.5	43.4	29.3	V
5864.1	48.7	-16.2	34.2	30.7	H



**802.11ac-HT20**

## Ch149

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17407.1	48.0	-26.9	43.4	31.5	H
17997.8	47.9	-25.5	43.4	30	V
17980.2	47.7	-25.5	43.4	29.8	V
17965.9	47.4	-25.5	43.4	29.5	V
17975.8	47.3	-25.5	43.4	29.4	H
5724.7	50.7	-16.3	34.2	32.8	H

## Ch157

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17879.0	47.9	-25.5	43.4	30	V
17541.3	47.6	-26.9	43.4	31.1	V
17980.2	47.4	-25.5	43.4	29.5	V
17895.5	47.2	-25.5	43.4	29.3	V
17995.6	47.2	-25.5	43.4	29.3	V
17597.4	47.1	-25.7	43.4	29.4	H

## Ch165

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17958.2	48.2	-25.5	43.4	30.3	V
17824.0	47.0	-25.5	43.4	29.1	V
17972.5	46.9	-25.5	43.4	29	V
17853.7	46.8	-25.5	43.4	28.9	H
17531.4	46.7	-26.9	43.4	30.2	H
5863.4	49.5	-16.2	34.2	31.5	H

**802.11ac-HT40**

## Ch151

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17986.8	48.2	-25.5	43.4	30.3	V
17995.6	47.9	-25.5	43.4	30	H
17962.6	47.7	-25.5	43.4	29.8	H
17929.6	47.5	-25.5	43.4	29.6	V
17935.1	47.3	-25.5	43.4	29.4	V
5724.3	53.0	-16.3	34.2	35.1	H

## Ch159

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
17967.0	47.6	-25.5	43.4	29.7	V
17805.3	47.3	-25.5	43.4	29.4	V
17936.2	47.3	-25.5	43.4	29.4	V
17952.7	47.1	-25.5	43.4	29.2	H
17830.6	47.0	-25.5	43.4	29.1	H
5851.1	49.2	-16.2	34.2	31.2	V

**802.11ac-HT80**

## Ch155

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Antenna Pol. (H/V)
5724.69	49.9	-33.8	34.2	34.5	H
17960.4	48.4	-17.7	43.4	29.8	H
17477.5	47.5	-19.2	43.4	29.7	V
17858.1	47.2	-18.5	43.4	29.6	H
17939.5	47.2	-17.7	43.4	29.5	H
17600.7	47.1	-18.9	43.4	29.3	H

**Conclusion: PASS**

## A.6. Band Edges Compliance

### A6.1 Band Edges - conducted

#### Measurement Limit:

Standard	Limit (dBm/MHz)
FCC 47 CFR Part 15.407(b)(4)	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The measurement is made according to KDB 789033 D02

#### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

#### Measurement Result:

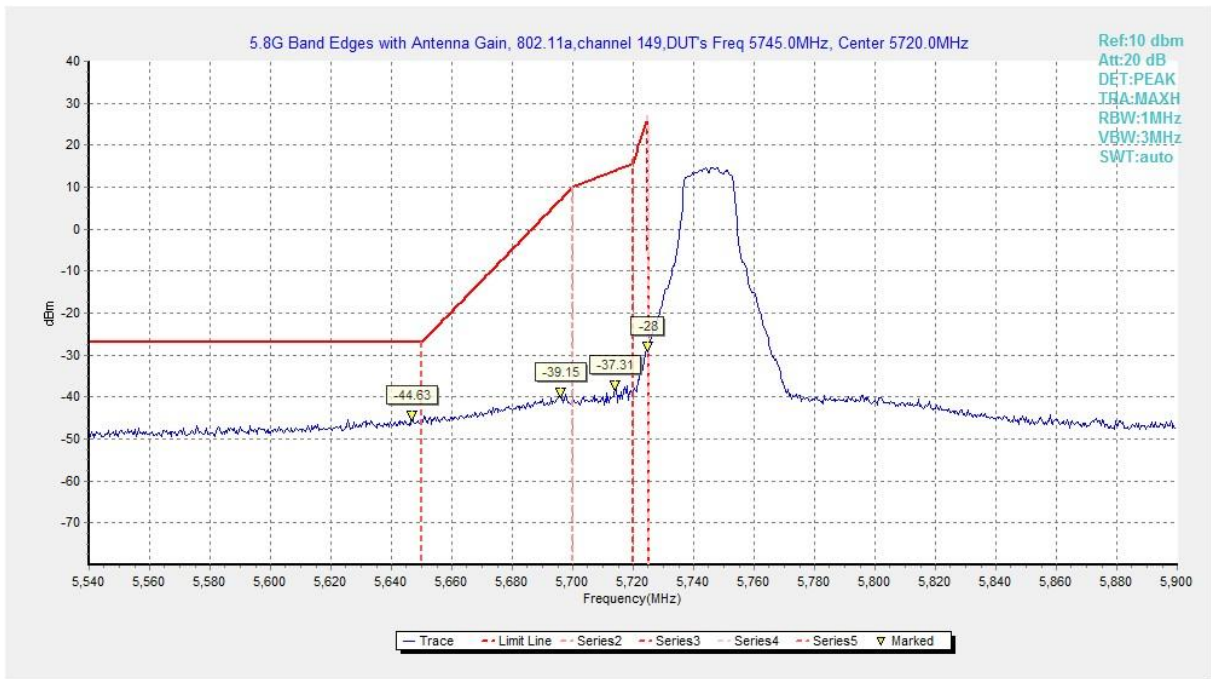
The Ant0 is selected as worse condition of Ant0+Ant1.

#### Ant0+Ant1:

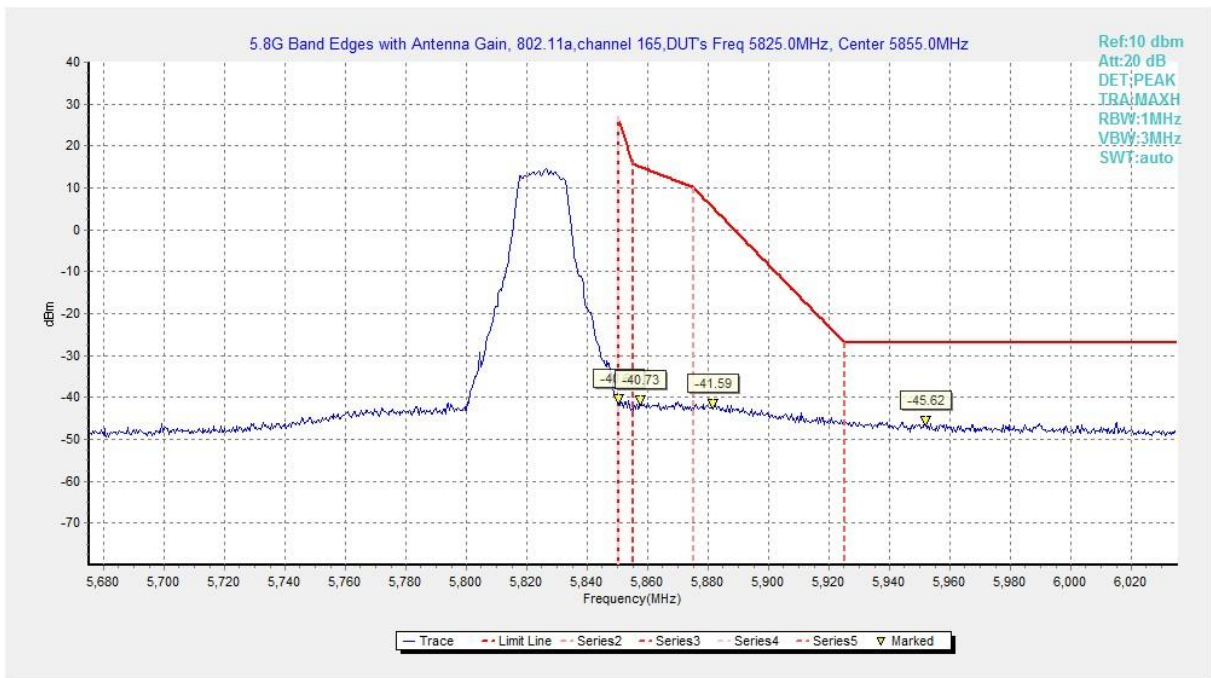
Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.71	P
	5825 MHz	Fig.72	P
802.11n HT20	5745 MHz	Fig.73	P
	5825 MHz	Fig.74	P
802.11ac HT20	5745 MHz	Fig.75	P
	5825 MHz	Fig.76	P
802.11n HT40	5755 MHz	Fig.77	P
	5795 MHz	Fig.78	P
802.11ac HT40	5755 MHz	Fig.79	P
	5795 MHz	Fig.80	P
802.11ac HT80	5775 MHz	Fig.81	P
	5775 MHz	Fig.82	P

**Conclusion: PASS**

**Test graphs as below:**

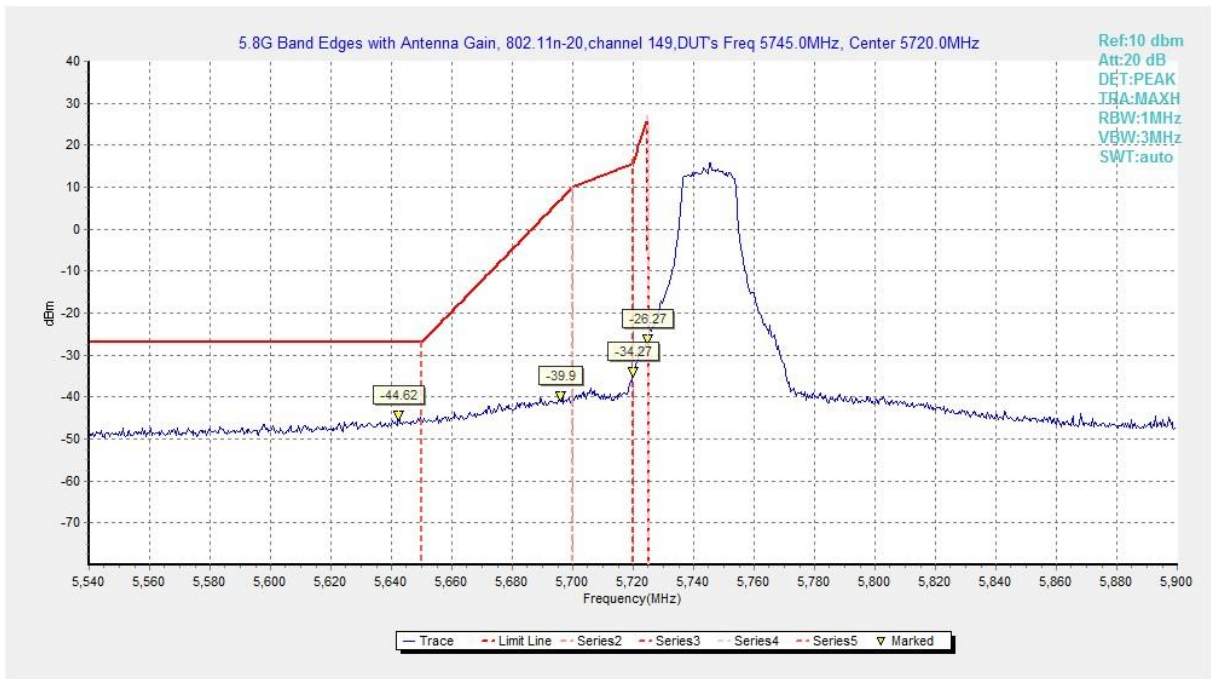


**Fig. 71 Band Edges (802.11a, 5745MHz)**

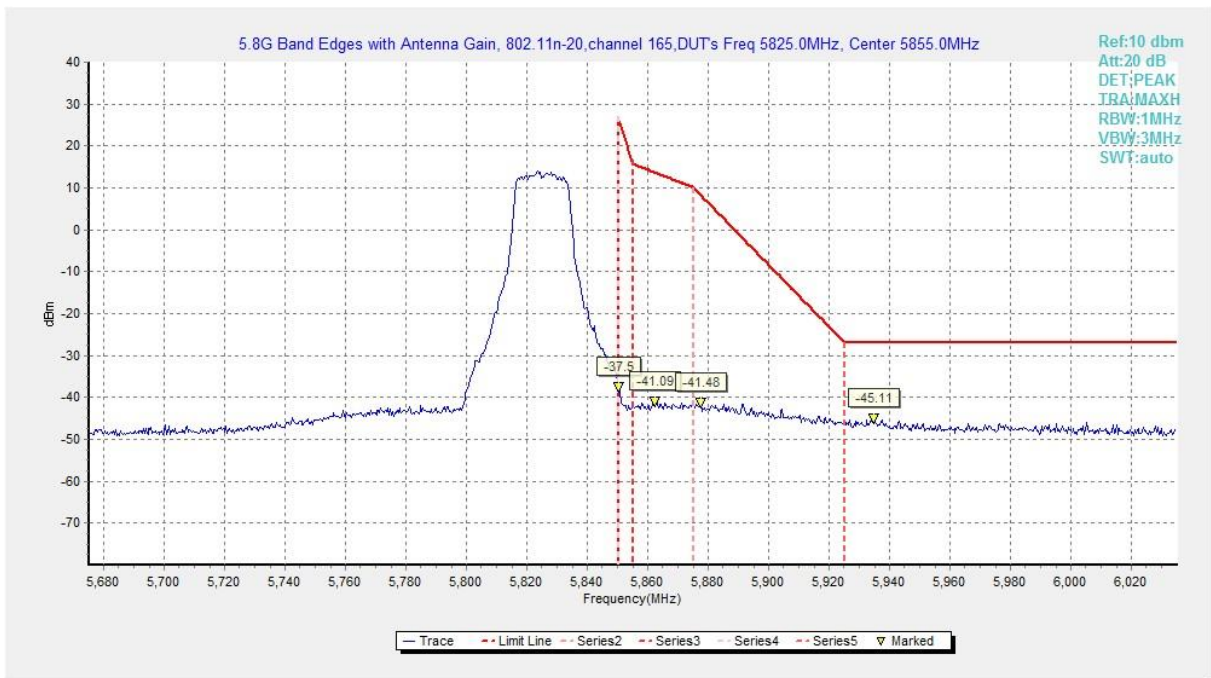


**Fig. 72 Band Edges (802.11a, 5825MHz)**

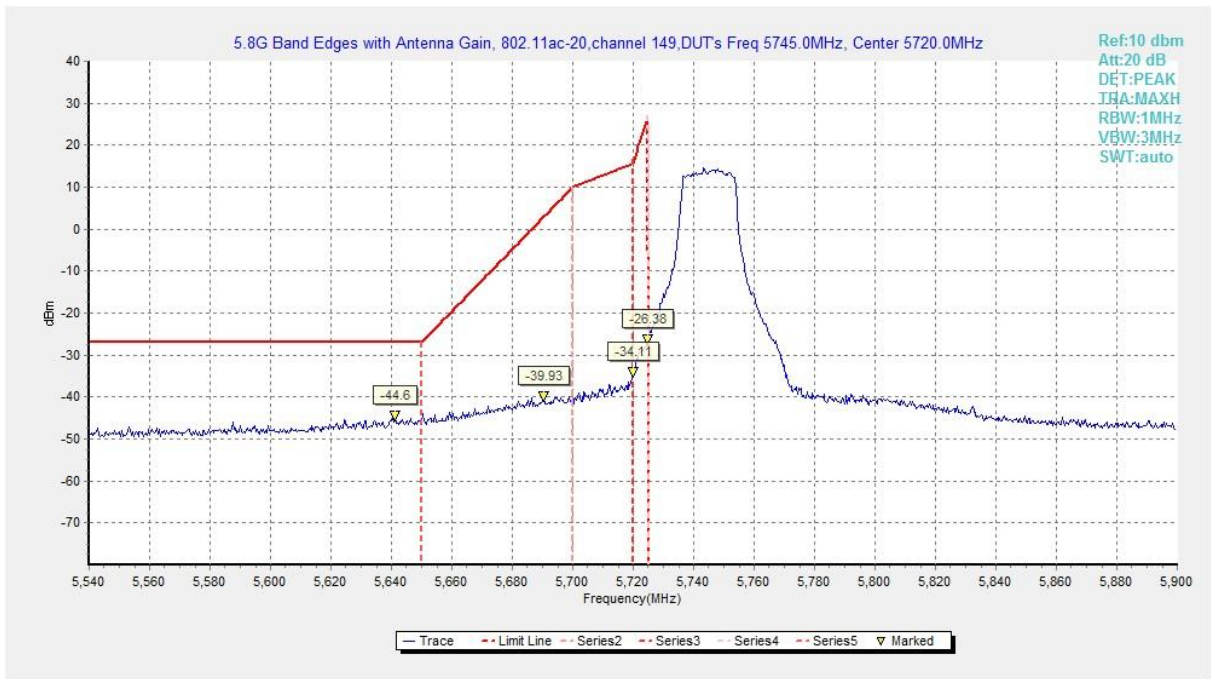




**Fig. 73 Band Edges (802.11n-HT20, 5745MHz)**



**Fig. 74 Band Edges (802.11n-HT20, 5825MHz)**



**Fig. 75 Band Edges (802.11ac-HT20, 5745MHz)**



**Fig. 76 Band Edges (802.11ac-HT20, 5825MHz)**



**Fig. 77 Band Edges (802.11n-HT40, 5755MHz)**



**Fig. 78 Band Edges (802.11n-HT40, 5795MHz)**

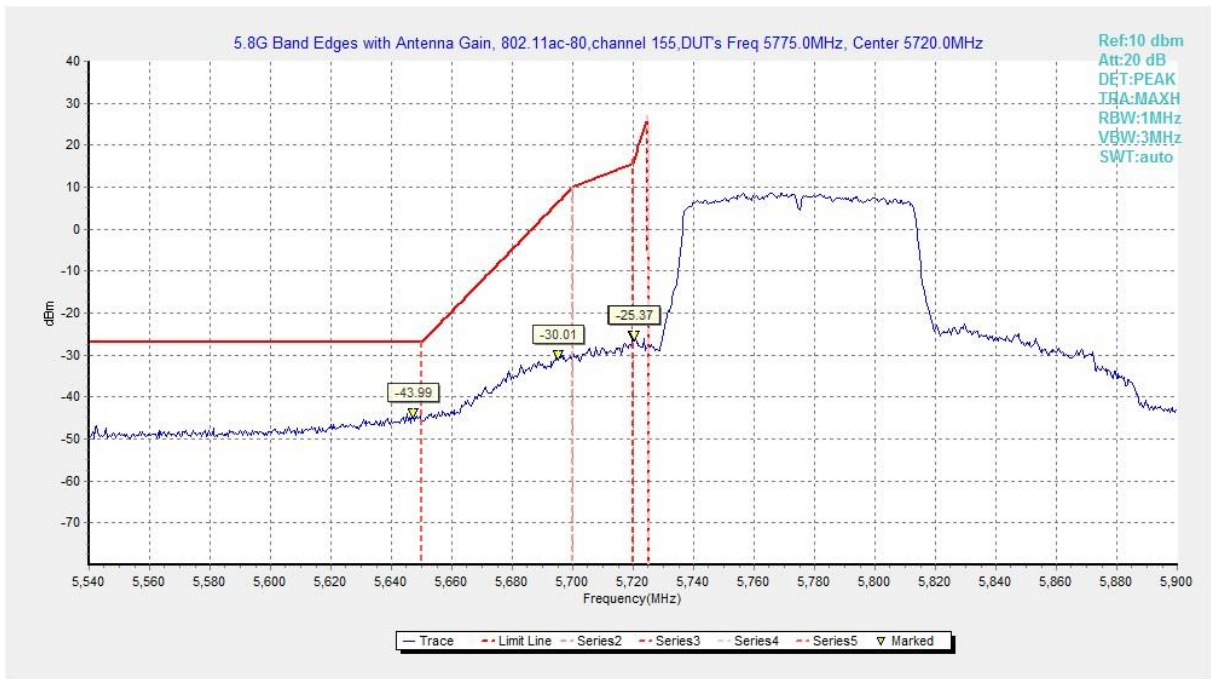




**Fig. 79 Band Edges (802.11ac-HT40, 5755MHz)**



**Fig. 80 Band Edges (802.11ac-HT40, 5795MHz)**



**Fig. 81 Band Edges (802.11ac-HT80, 5775MHz)**



**Fig. 82 Band Edges (802.11ac-HT80, 5775MHz)**

## A6.2 Band Edges - Radiated

### Measurement Limit:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: increasing linearly from point to point.	

The measurement is made according to KDB 789033 D02

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### Measurement Result:

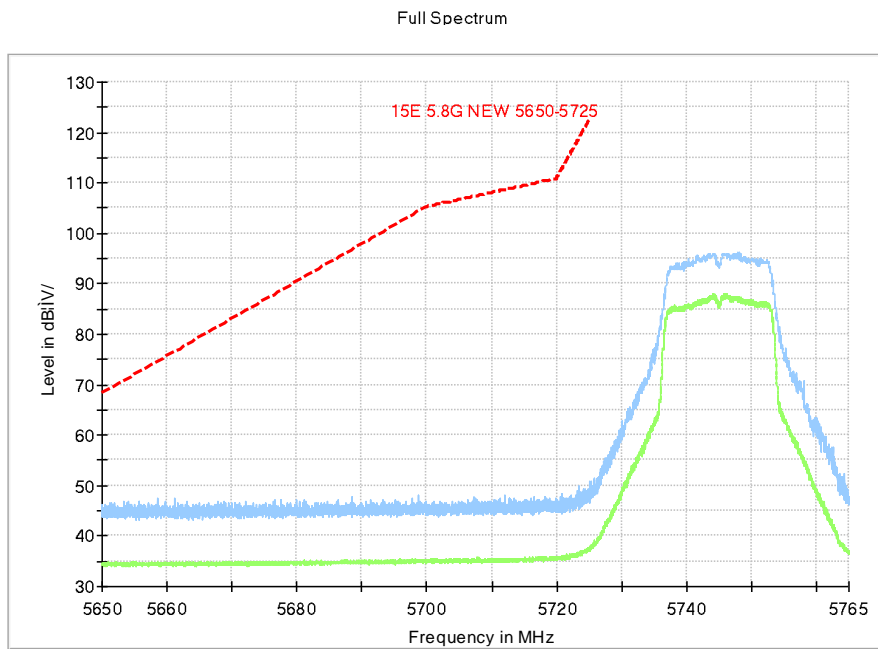
#### Ant0+Ant1:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.83	P
	5825 MHz	Fig.84	P
802.11n HT20	5745 MHz	Fig.85	P
	5825 MHz	Fig.86	P
802.11ac HT20	5745 MHz	Fig.87	P
	5825 MHz	Fig.88	P
802.11n HT40	5755 MHz	Fig.89	P
	5795 MHz	Fig.90	P
802.11ac HT40	5755 MHz	Fig.91	P
	5795 MHz	Fig.92	P
802.11ac HT80	5775 MHz	Fig.93	P

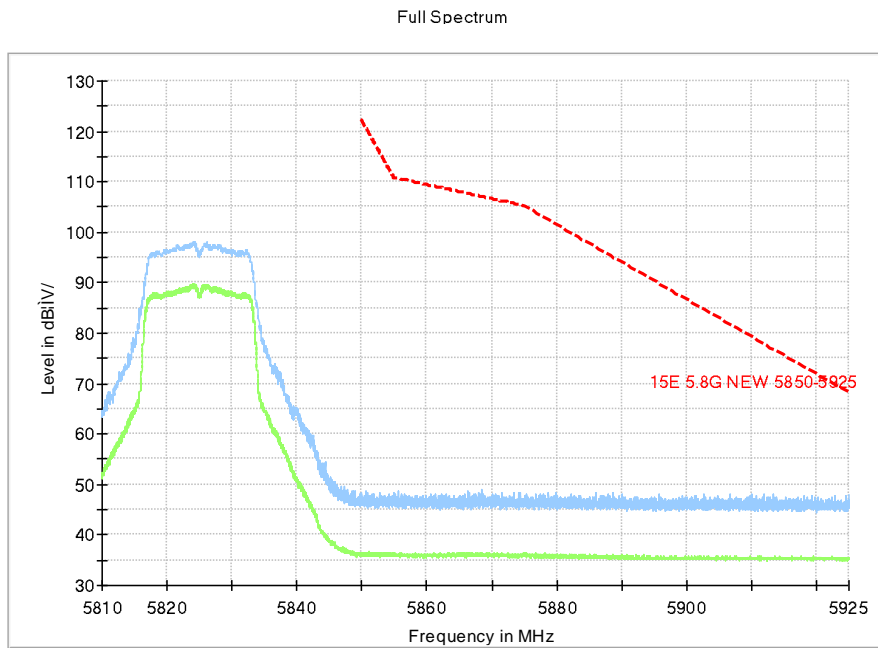
**Conclusion: PASS**

Test graphs as below:

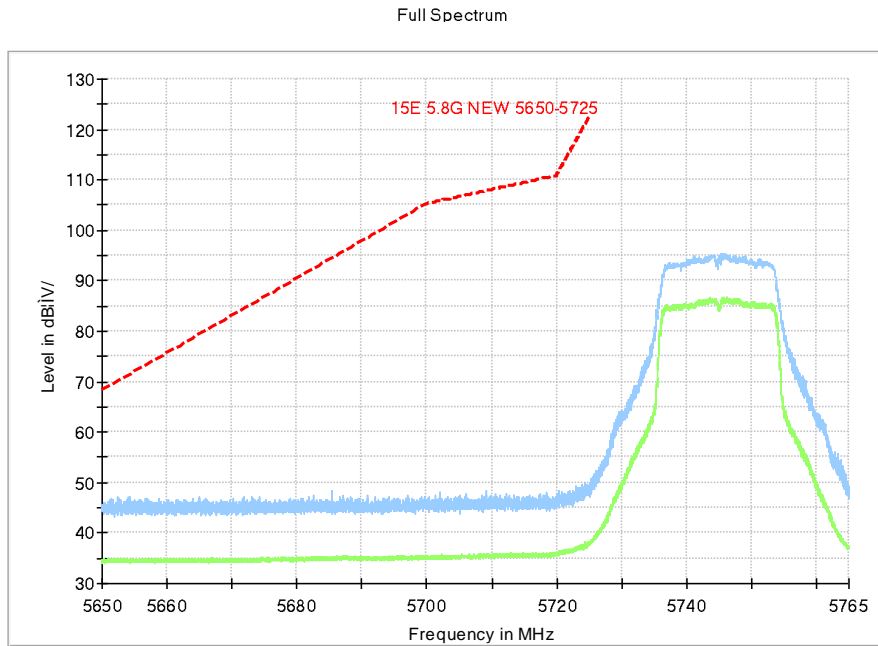




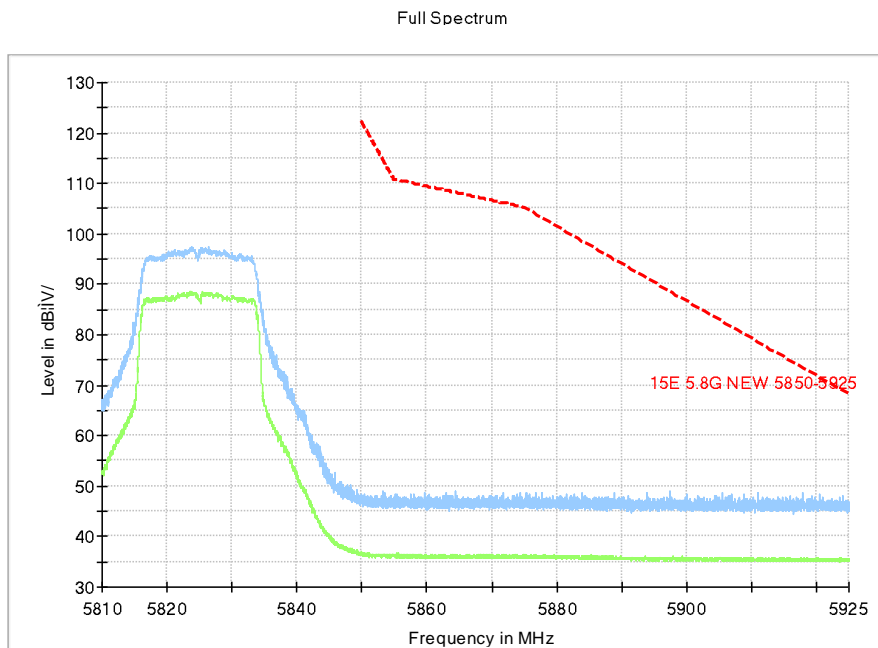
**Fig. 83 Band Edges (802.11a, 5745MHz)**



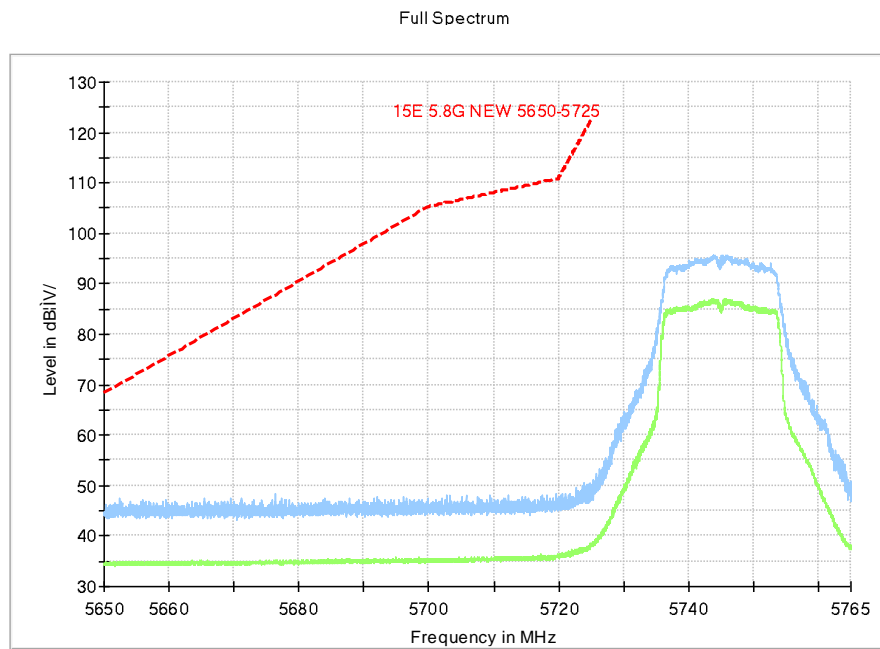
**Fig. 84 Band Edges (802.11a, 5825MHz)**



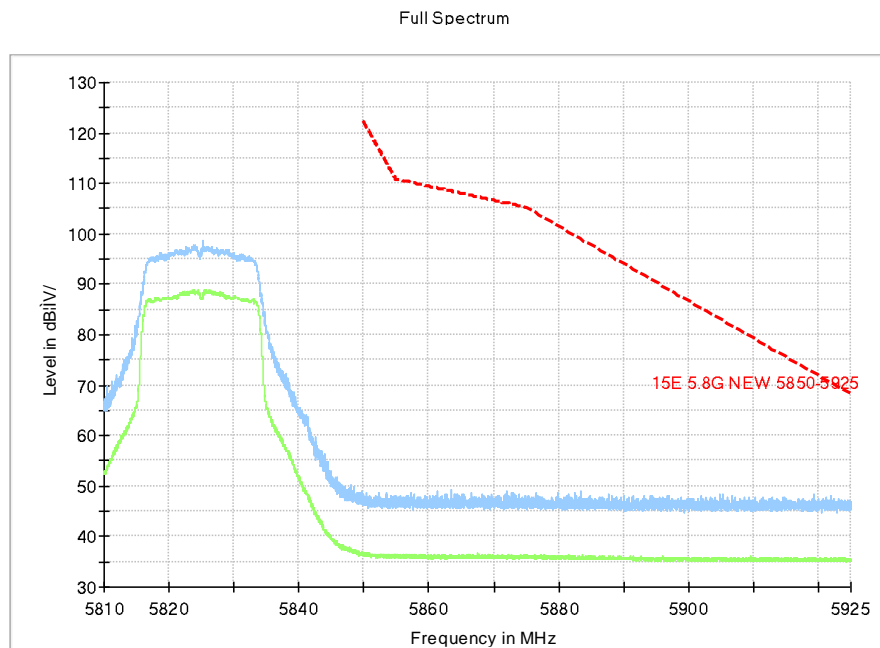
**Fig. 85 Band Edges (802.11n-HT20, 5745MHz)**



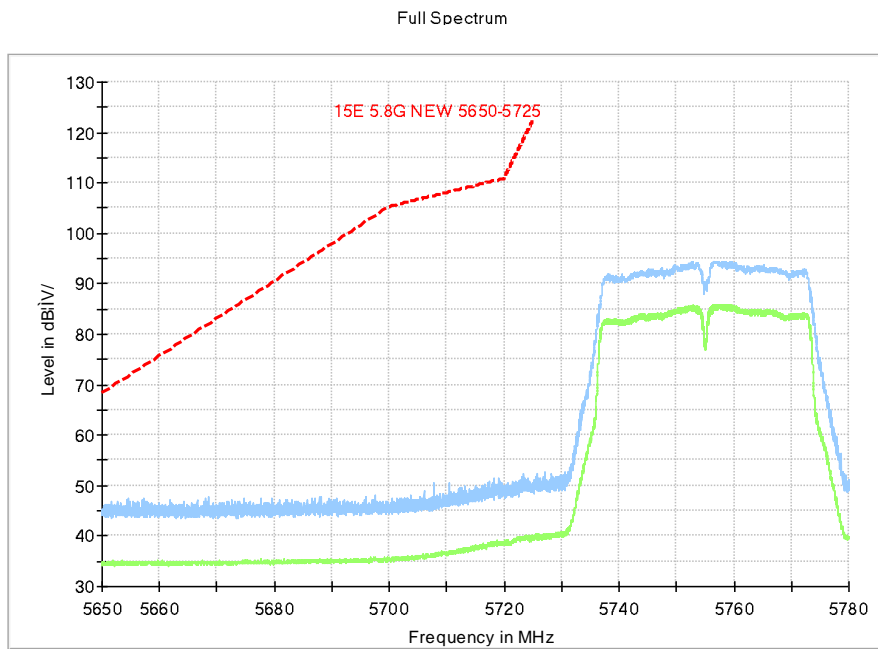
**Fig. 86 Band Edges (802.11n-HT20, 5825MHz)**



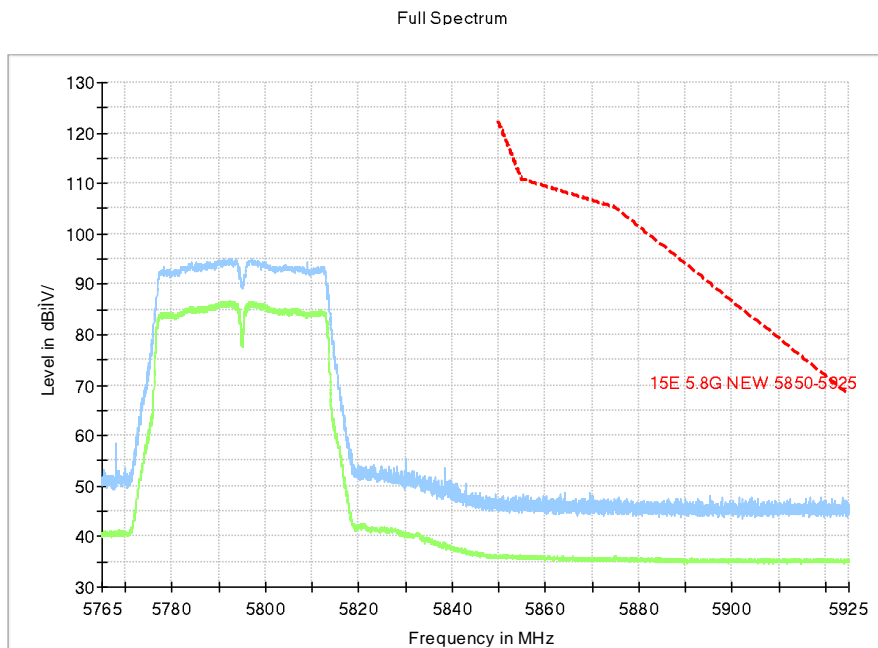
**Fig. 87 Band Edges (802.11ac-HT20, 5745MHz)**



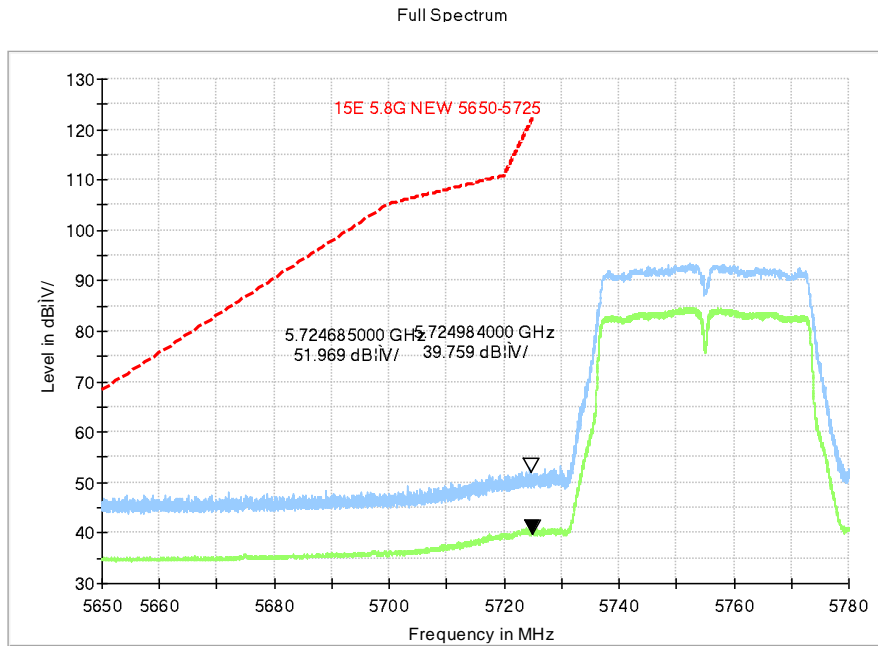
**Fig. 88 Band Edges (802.11ac-HT20, 5825MHz)**



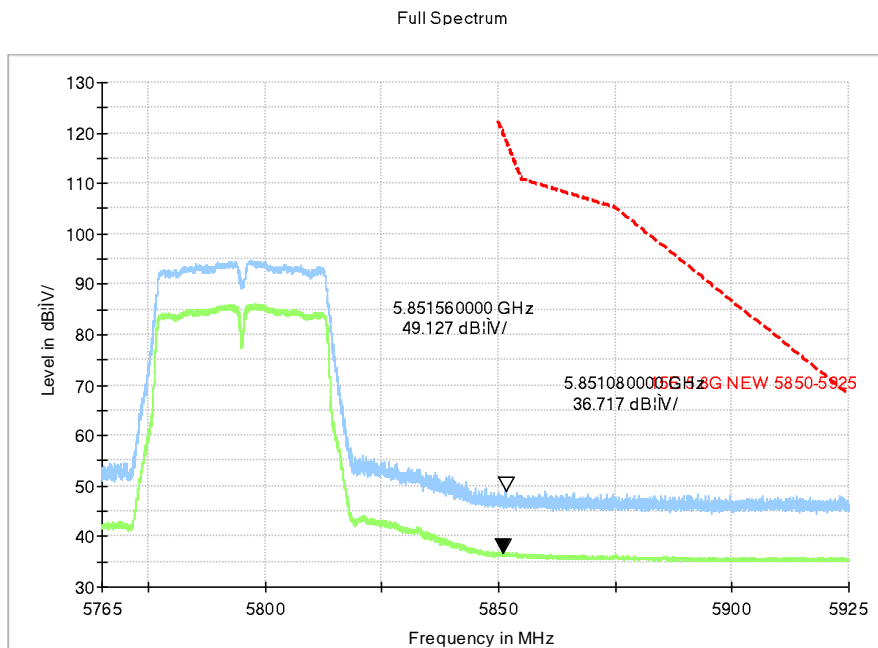
**Fig. 89 Band Edges (802.11n-HT40, 5755MHz)**



**Fig. 90 Band Edges (802.11n-HT40, 5795MHz)**

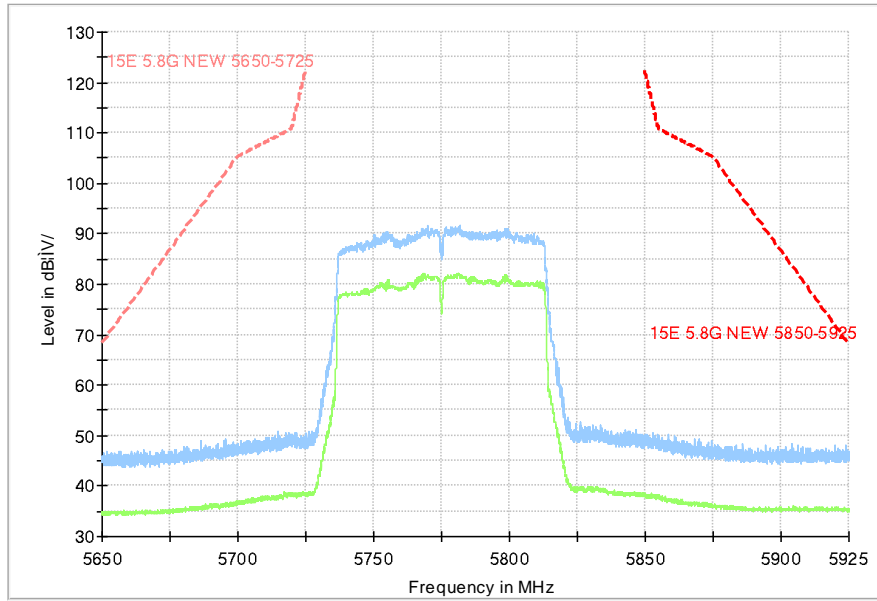


**Fig. 91 Band Edges (802.11ac-HT40, 5755MHz)**



**Fig. 92 Band Edges (802.11ac-HT40, 5795MHz)**

Full Spectrum



**Fig. 93 Band Edges (802.11ac-HT80, 5775MHz)**



## A.7. AC Powerline Conducted Emission

### Test Condition:

Voltage (V)	Frequency (Hz)
110	60

### Measurement uncertainty:

Expanded measurement uncertainty for this test item is  $U = 3.2\text{dB}$ ,  $k=2$ .

### Measurement Result and limit:

#### Ant0+Ant1:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.94 Fig.96	Fig.95 Fig.97	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.94 Fig.96	Fig.95 Fig.97	P
0.5 to 5	46			
5 to 30	50			

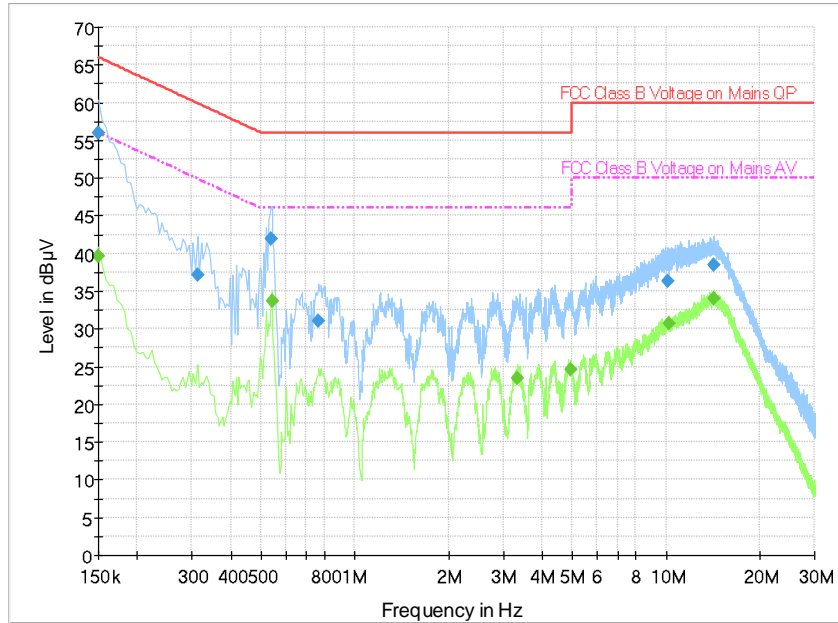
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10 .

**Conclusion: PASS**

Test graphs as below:

**Result for Set.11-Traffic:**



**Fig. 94 AC Powerline Conducted Emission-802.11a**

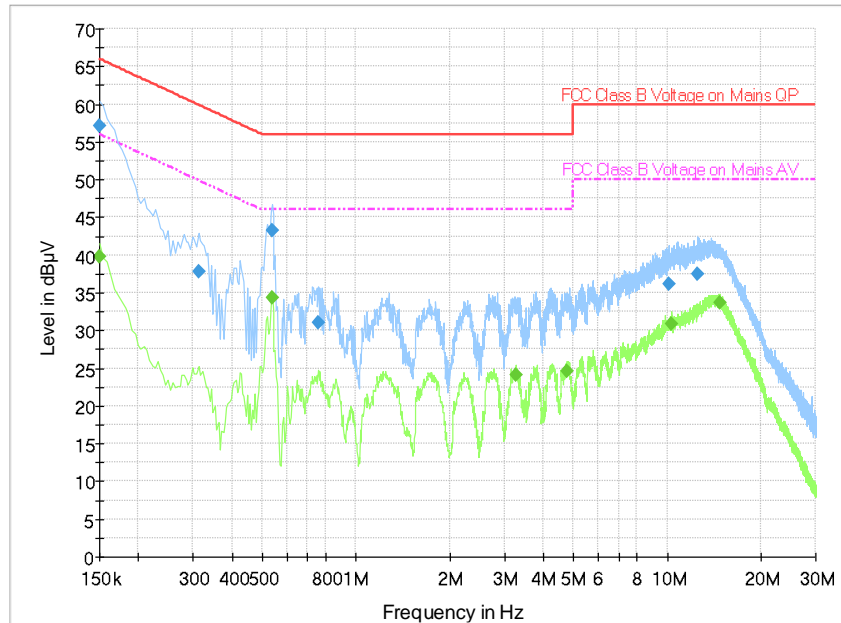
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	55.9	2000.0	9.000	On	L1	30.7	10.1	66.0	
0.312000	37.1	2000.0	9.000	On	L1	19.8	22.8	59.9	
0.537000	41.9	2000.0	9.000	On	L1	19.8	14.1	56.0	
0.766500	31.0	2000.0	9.000	On	N	19.7	25.0	56.0	
10.162500	36.3	2000.0	9.000	On	N	19.7	23.7	60.0	
14.253000	38.5	2000.0	9.000	On	N	19.8	21.5	60.0	

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	39.6	2000.0	9.000	On	L1	30.7	16.4	56.0	
0.541500	33.6	2000.0	9.000	On	N	19.8	12.4	46.0	
3.331500	23.4	2000.0	9.000	On	N	19.6	22.6	46.0	
4.965000	24.6	2000.0	9.000	On	N	19.6	21.4	46.0	
10.194000	30.7	2000.0	9.000	On	N	19.7	19.3	50.0	
14.239500	34.0	2000.0	9.000	On	N	19.8	16.0	50.0	

**Result for Set.11-Idle:**



**Fig. 95 AC Powerline Conducted Emission-Idle**

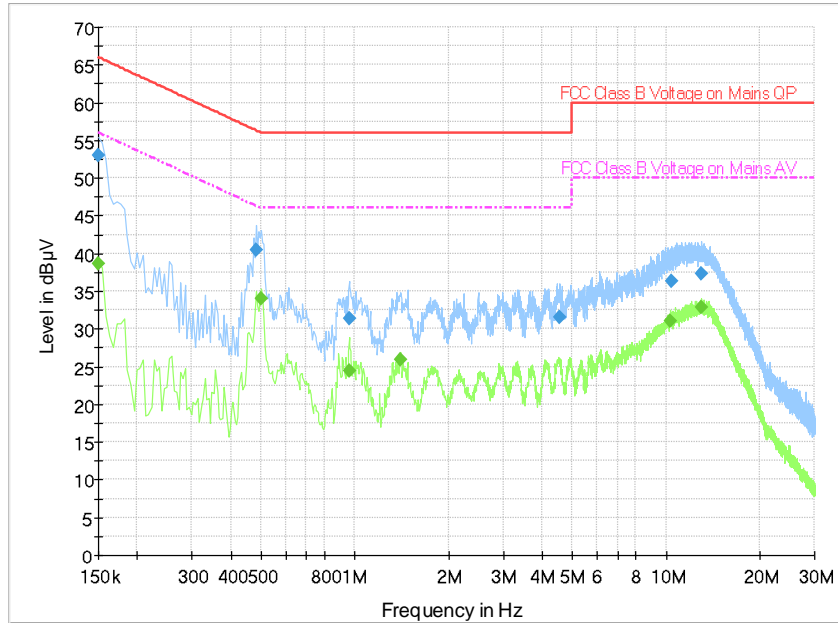
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	57.2	2000.0	9.000	On	N	30.6	8.8	66.0	
0.312000	37.8	2000.0	9.000	On	N	19.8	22.1	59.9	
0.537000	43.2	2000.0	9.000	On	N	19.8	12.8	56.0	
0.757500	31.0	2000.0	9.000	On	L1	19.8	25.0	56.0	
10.095000	36.2	2000.0	9.000	On	N	19.7	23.8	60.0	
12.475500	37.6	2000.0	9.000	On	N	19.8	22.4	60.0	

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	39.8	2000.0	9.000	On	N	30.6	16.2	56.0	
0.537000	34.4	2000.0	9.000	On	N	19.8	11.6	46.0	
3.273000	24.1	2000.0	9.000	On	N	19.6	21.9	46.0	
4.758000	24.6	2000.0	9.000	On	N	19.6	21.4	46.0	
10.365000	30.9	2000.0	9.000	On	N	19.7	19.1	50.0	
14.770500	33.8	2000.0	9.000	On	N	19.8	16.2	50.0	

**Result for Set.12-Traffic:**



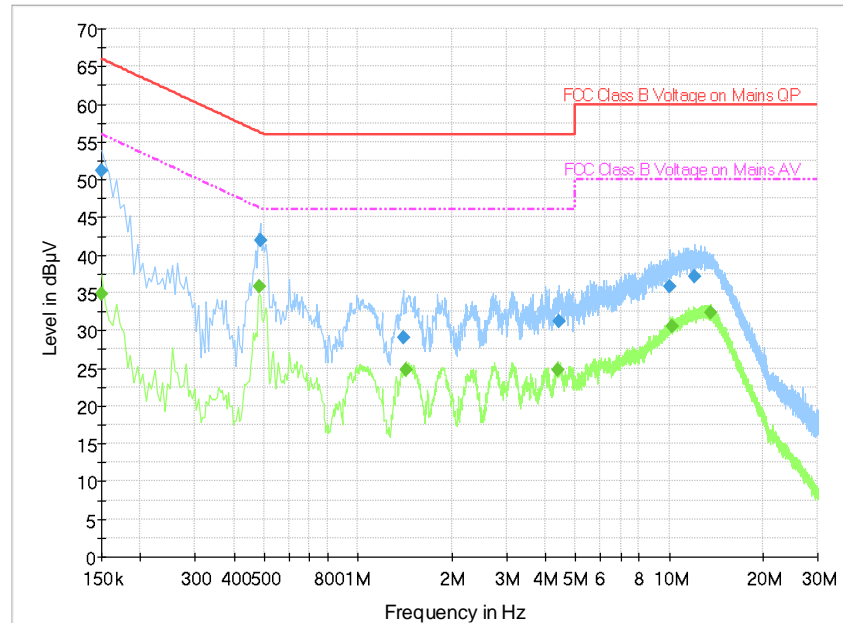
**Fig. 96 AC Powerline Conducted Emission-802.11a**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	52.9	2000.0	9.000	On	L1	30.7	13.1	66.0	
0.483000	40.4	2000.0	9.000	On	N	19.8	15.9	56.3	
0.960000	31.3	2000.0	9.000	On	N	19.7	24.7	56.0	
4.551000	31.5	2000.0	9.000	On	N	19.6	24.5	56.0	
10.387500	36.3	2000.0	9.000	On	N	19.7	23.7	60.0	
13.042500	37.3	2000.0	9.000	On	N	19.8	22.7	60.0	

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	38.6	2000.0	9.000	On	N	30.6	17.4	56.0	
0.501000	34.1	2000.0	9.000	On	N	19.8	11.9	46.0	
0.960000	24.4	2000.0	9.000	On	N	19.7	21.6	46.0	
1.401000	25.9	2000.0	9.000	On	N	19.6	20.1	46.0	
10.365000	31.0	2000.0	9.000	On	N	19.7	19.0	50.0	
12.939000	32.8	2000.0	9.000	On	N	19.8	17.2	50.0	

**Result for Set.12-Idle:**

**Fig. 97 AC Powerline Conducted Emission-Idle**
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	51.1	2000.0	9.000	On	L1	30.7	14.9	66.0	
0.487500	41.9	2000.0	9.000	On	N	19.8	14.3	56.2	
1.396500	29.0	2000.0	9.000	On	L1	19.6	27.0	56.0	
4.425000	31.2	2000.0	9.000	On	N	19.6	24.8	56.0	
10.086000	35.8	2000.0	9.000	On	N	19.7	24.2	60.0	
12.039000	37.1	2000.0	9.000	On	N	19.8	22.9	60.0	

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	34.8	2000.0	9.000	On	L1	30.7	21.2	56.0	
0.483000	35.8	2000.0	9.000	On	N	19.8	10.4	46.3	
1.432500	24.7	2000.0	9.000	On	N	19.6	21.3	46.0	
4.402500	24.8	2000.0	9.000	On	N	19.6	21.2	46.0	
10.221000	30.6	2000.0	9.000	On	N	19.7	19.4	50.0	
13.542000	32.4	2000.0	9.000	On	N	19.8	17.6	50.0	

## ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> 	
<hr/> <p><b>Certificate of Accreditation to ISO/IEC 17025:2005</b></p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p><b>Telecommunication Technology Labs, CAICT</b> Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p><b>Electromagnetic Compatibility &amp; Telecommunications</b></p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<hr/> <p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

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