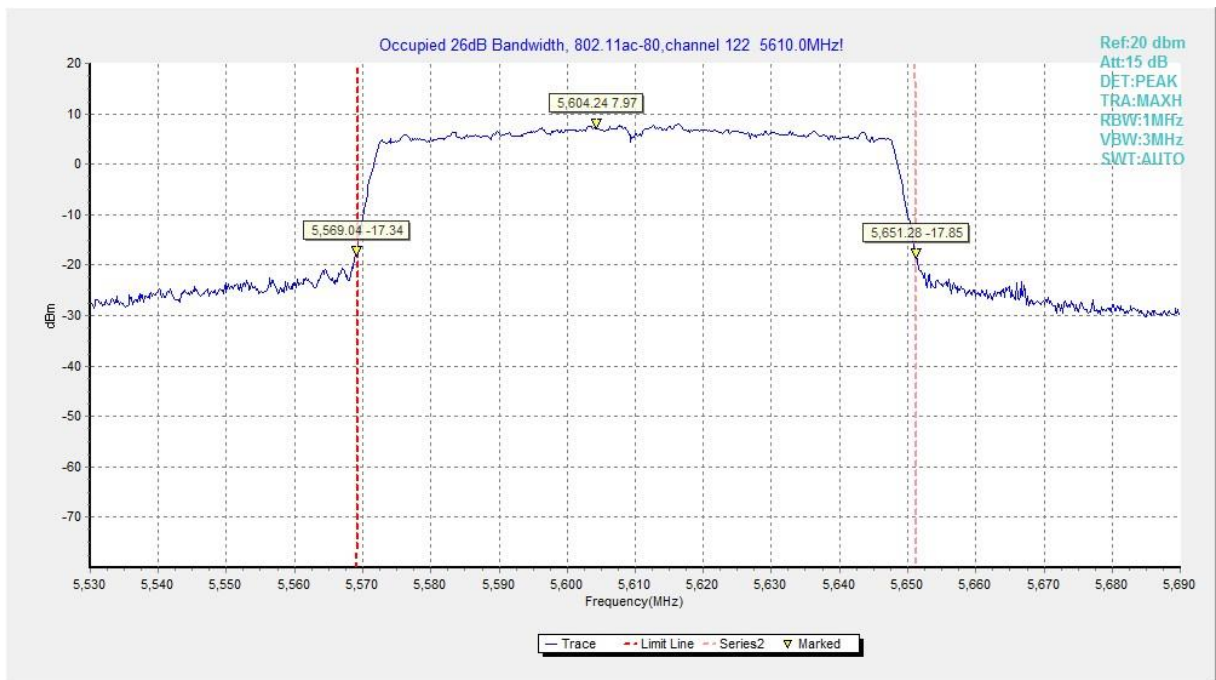
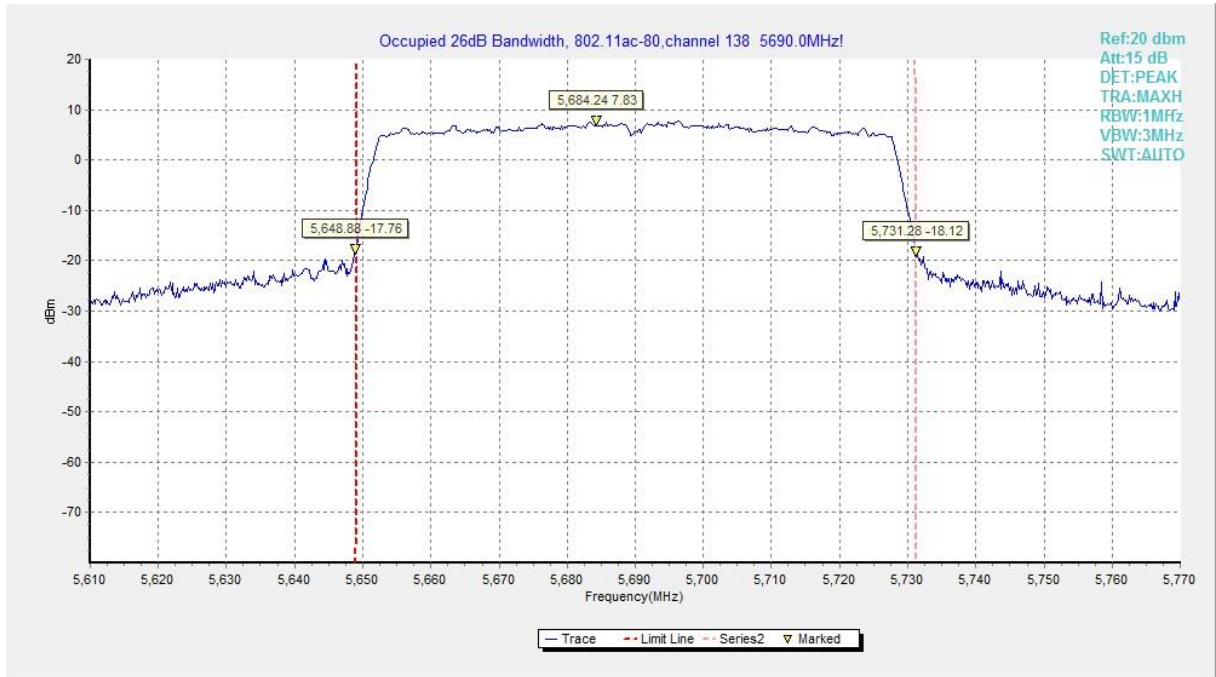


**Fig.49 Occupied 26dB Bandwidth (802. 11ac-HT80, 5530MHz)**



**Fig.50 Occupied 26dB Bandwidth (802. 11ac-HT80, 5610MHz)**



**Fig.51 Occupied 26dB Bandwidth (802. 11ac-HT80, 5690MHz)**

## B.5. Band Edges Compliance

### B.5.1 Band Edges - Radiated

#### Measurement Limit:

Standard	Limit (dB $\mu$ V/m)	
	FCC 47 CFR Part 15.209	Peak
Average		54

The measurement is made according to KDB 789033

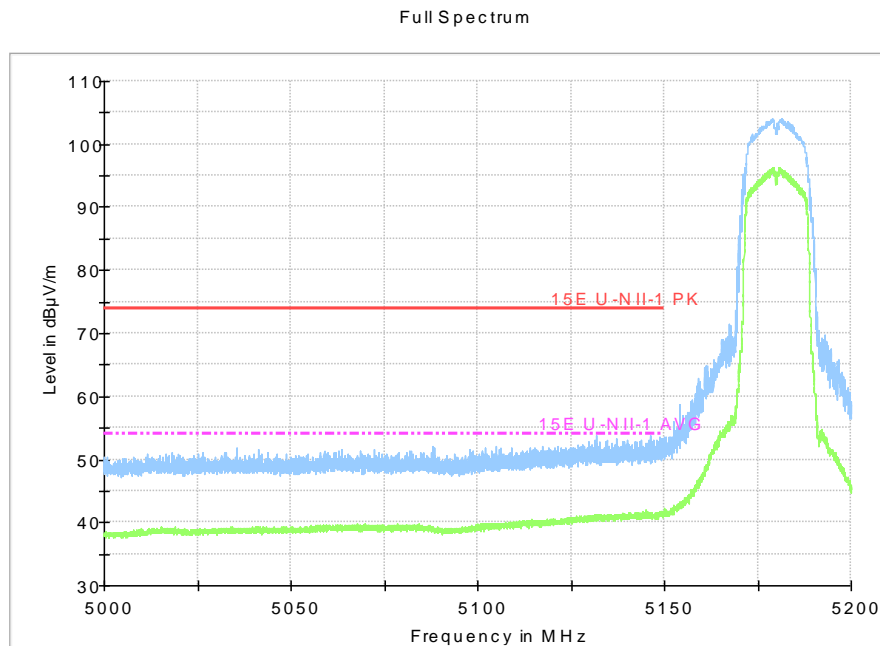
In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

#### Measurement Result:

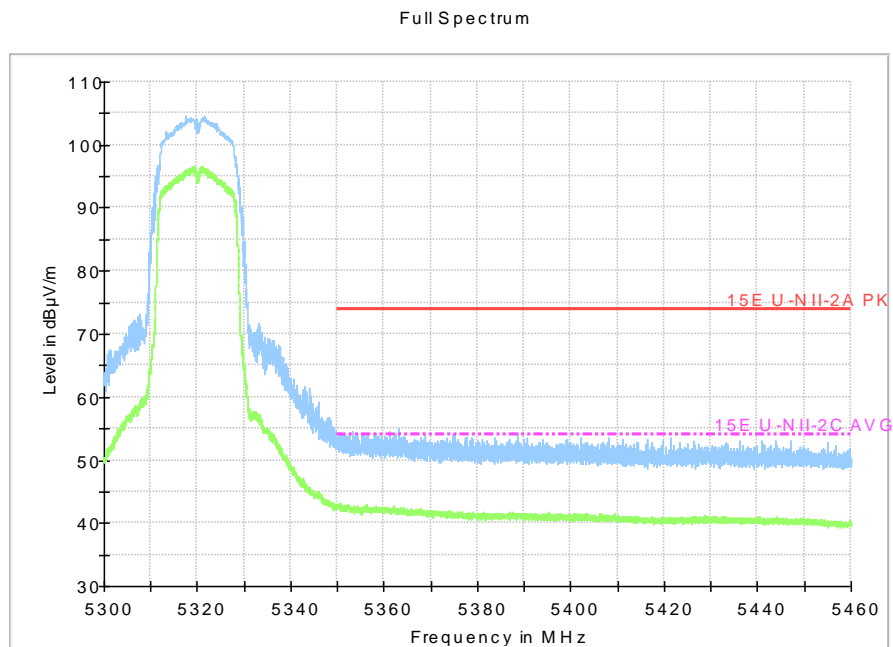
Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.52	P
	5320 MHz	Fig.53	P
	5500 MHz	Fig.54	P
	5700 MHz	Fig.55	P
802.11n HT20	5180 MHz	Fig.56	P
	5320 MHz	Fig.57	P
	5500 MHz	Fig.58	P
	5700 MHz	Fig.59	P
802.11ac HT20	5180 MHz	Fig.60	P
	5320 MHz	Fig.61	P
	5500 MHz	Fig.62	P
	5700 MHz	Fig.63	P
802.11n HT40	5190 MHz	Fig.64	P
	5310 MHz	Fig.65	P
	5510 MHz	Fig.66	P
	5670 MHz	Fig.67	P
802.11ac HT40	5190 MHz	Fig.68	P
	5310 MHz	Fig.69	P
	5510 MHz	Fig.70	P
	5670 MHz	Fig.71	P
802.11ac HT80	5210MHz	Fig.72	P
	5290MHz	Fig.73	P
	5530MHz	Fig.74	P
	5610MHz	Fig.75	P

**Conclusion: PASS**

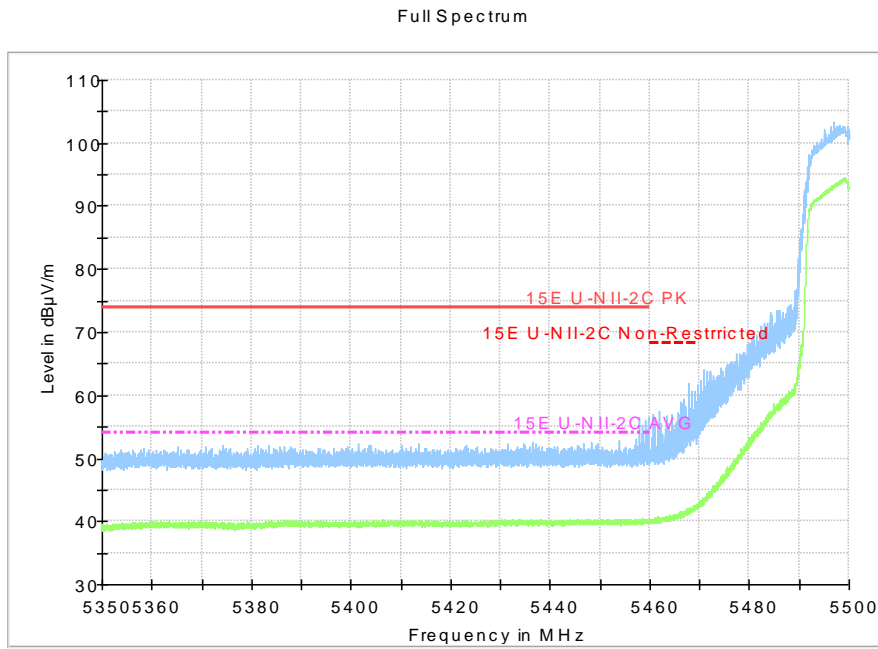
**Conclusion: PASS**  
**Test graphs as below:**



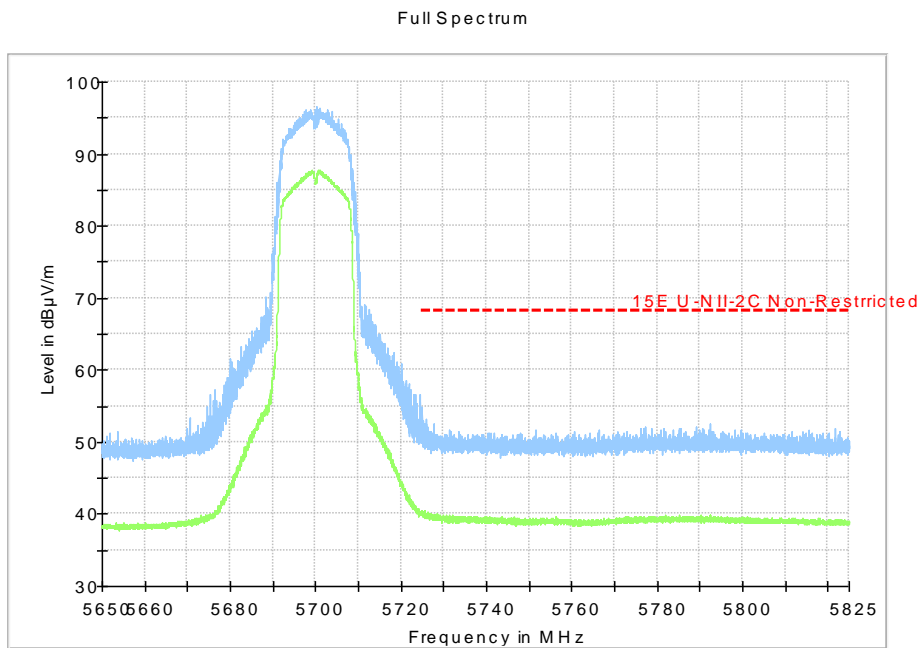
**Fig.52 Band Edges (802.11a, 5180MHz)**



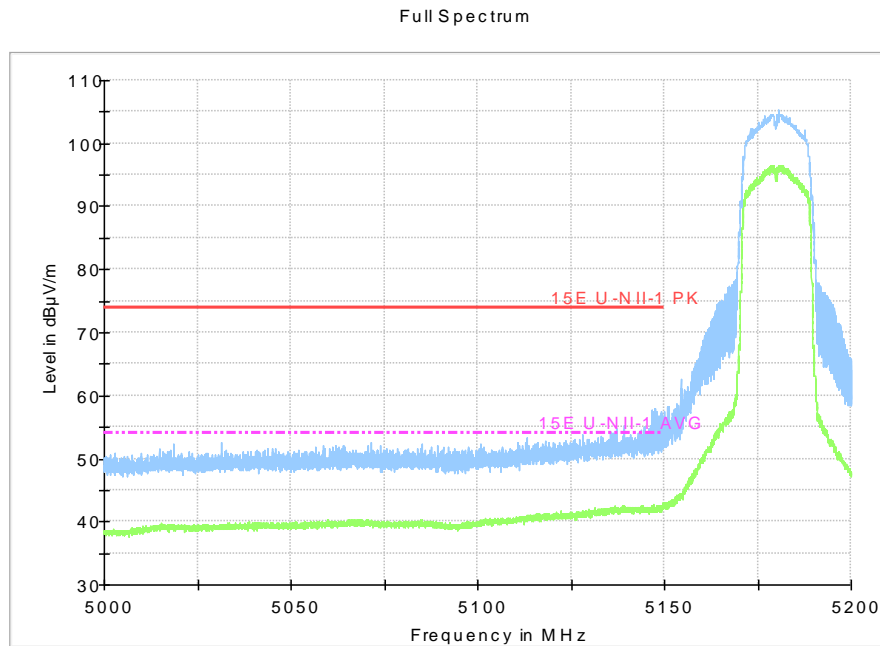
**Fig.53 Band Edges (802.11a, 5320MHz)**



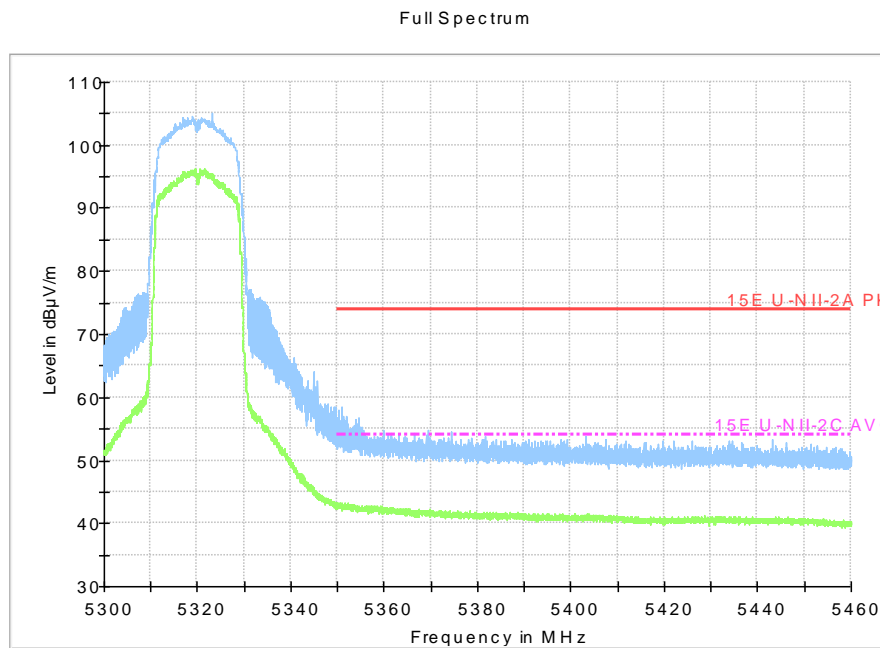
**Fig.54 Band Edges (802.11a, 5500MHz)**



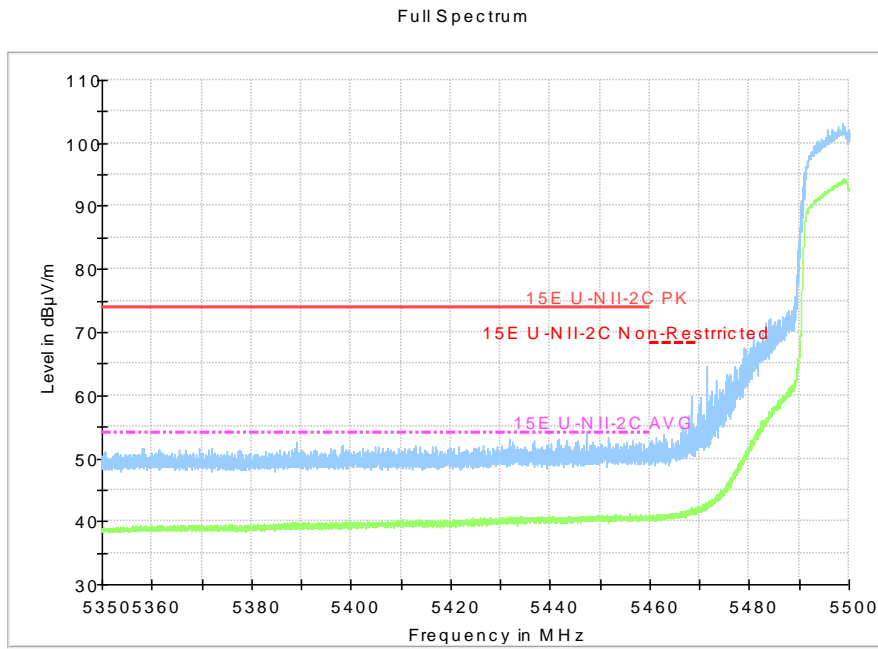
**Fig.55 Band Edges (802.11a, 5700MHz)**



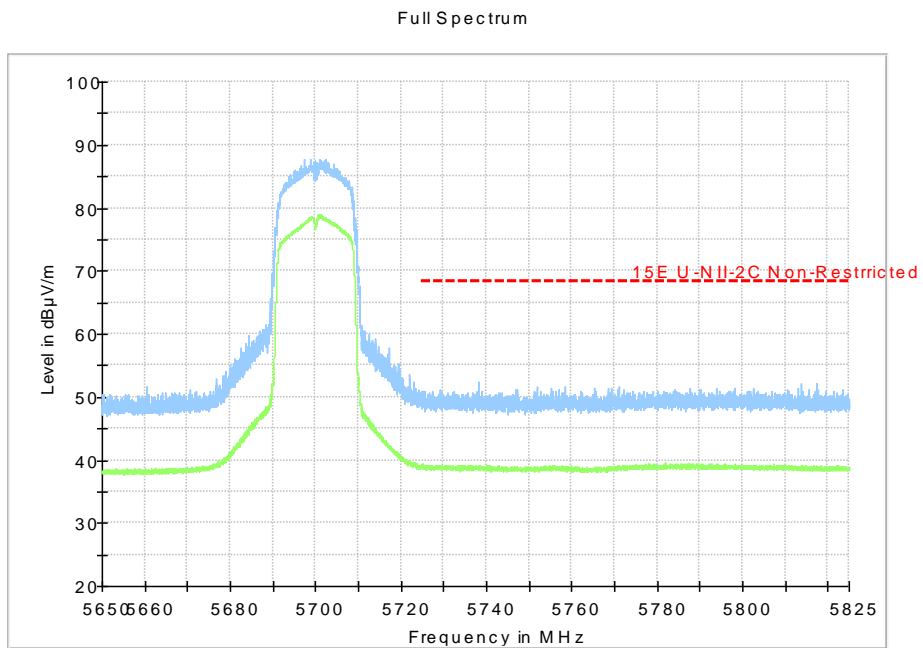
**Fig.56 Band Edges (802.11n-HT20, 5180MHz)**



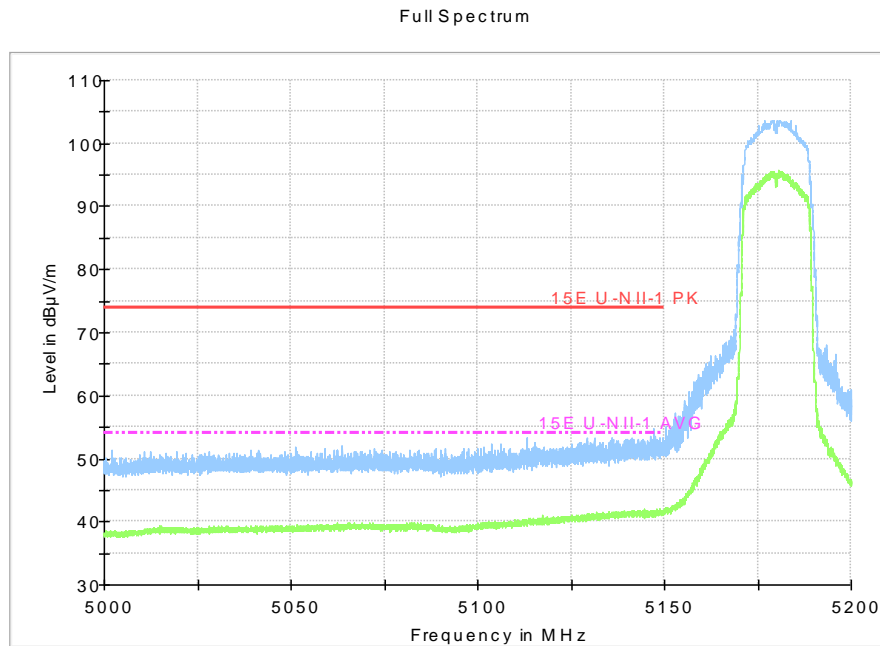
**Fig.57 Band Edges (802.11n-HT20, 5320MHz)**



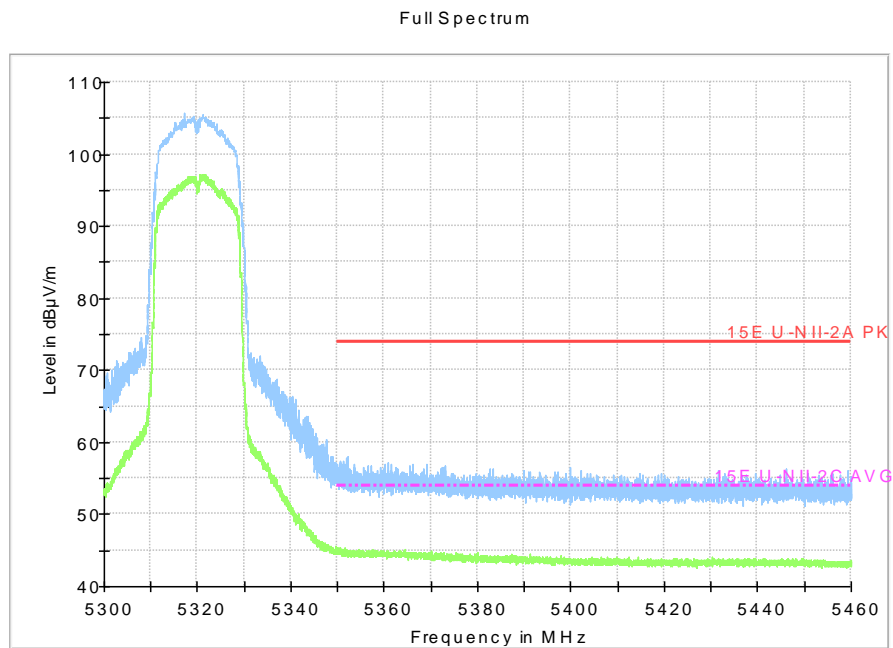
**Fig.58 Band Edges (802.11n-HT20, 5500MHz)**



**Fig.59 Band Edges (802.11n-HT20, 5700MHz)**

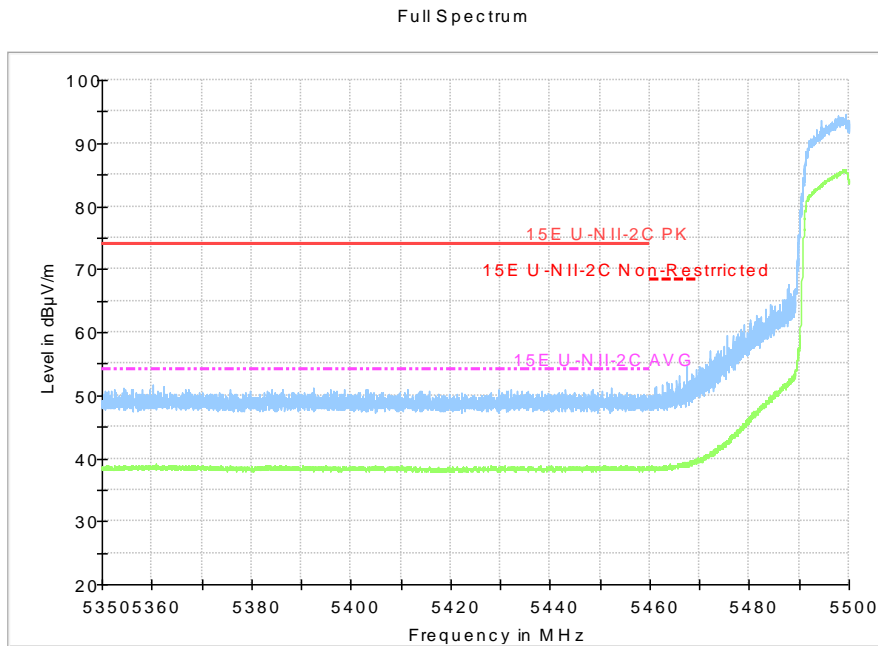


**Fig.60 Band Edges (802.11ac-HT20, 5180MHz)**

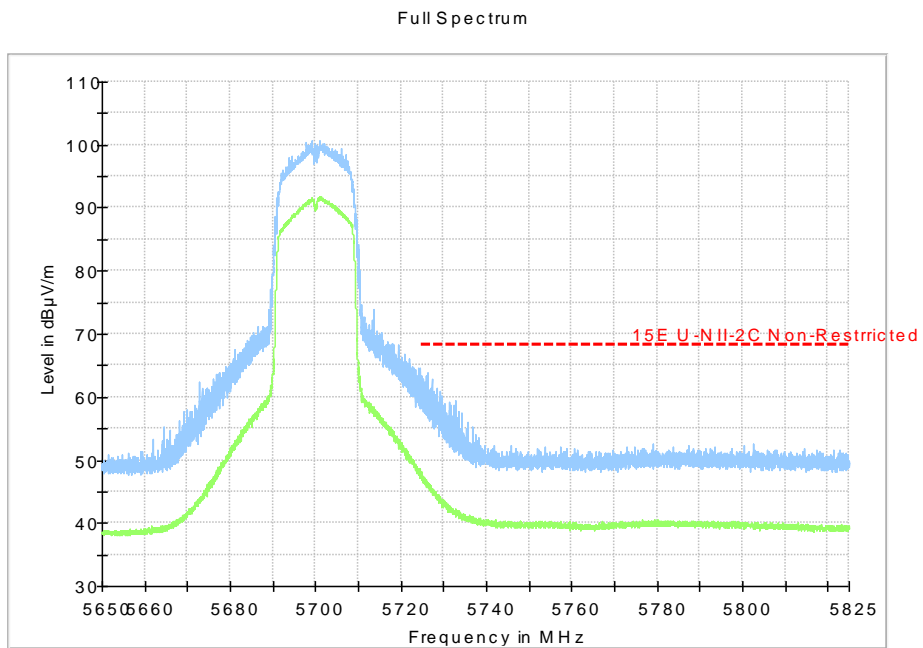


**Fig.61 Band Edges (802.11ac-HT20, 5320MHz)**

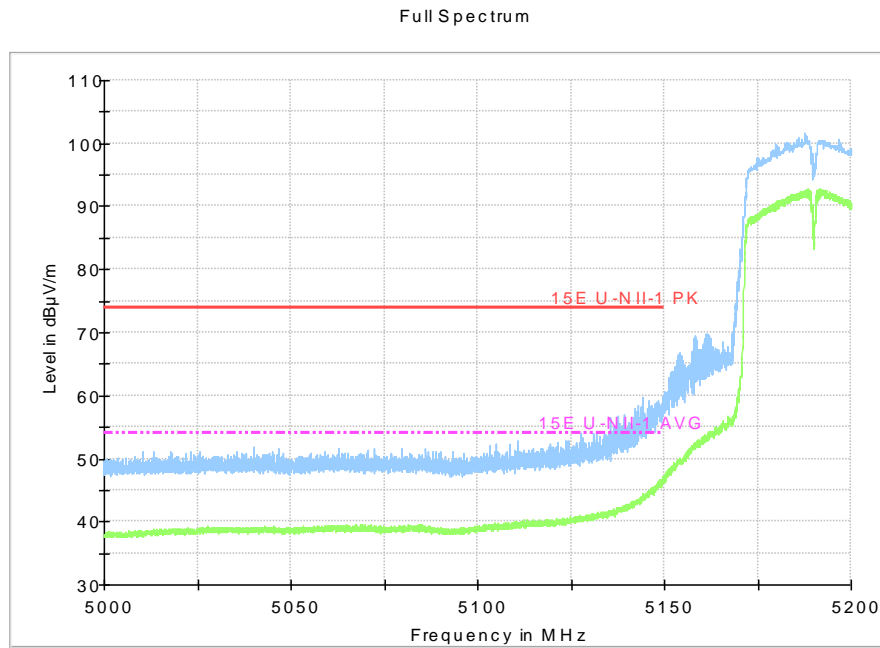




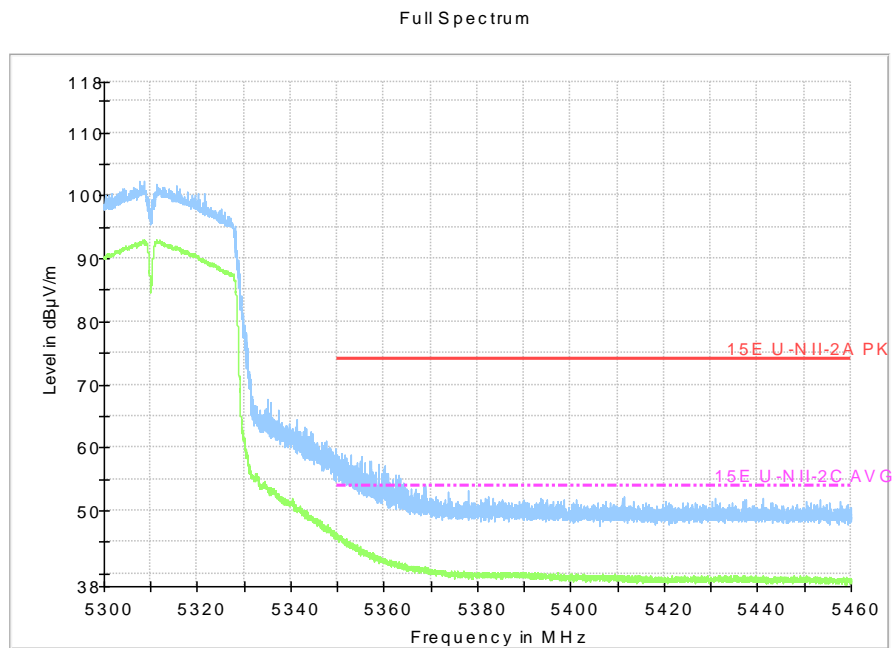
**Fig.62 Band Edges (802.11ac-HT20, 5500MHz)**



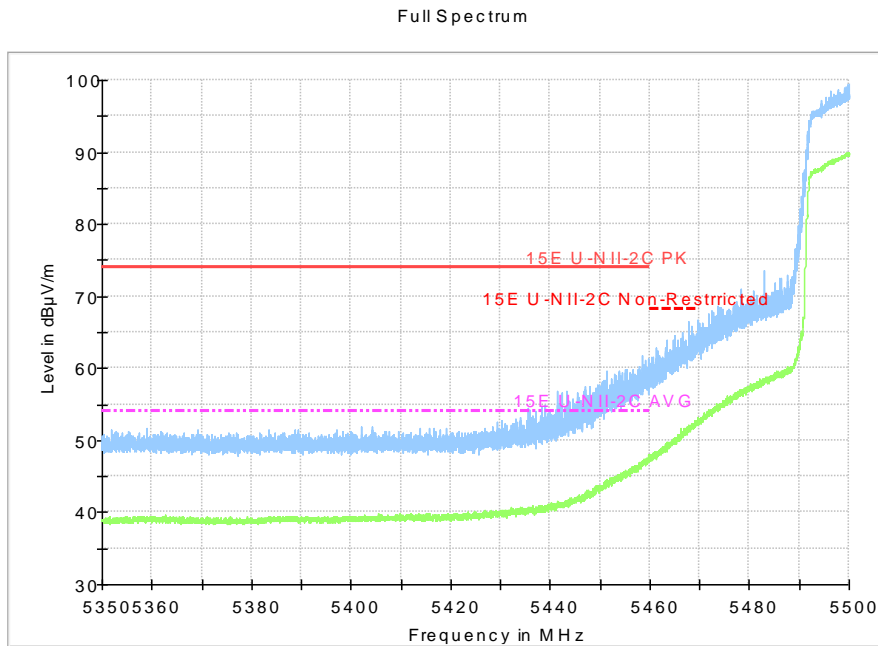
**Fig.63 Band Edges (802.11ac-HT20, 5700MHz)**



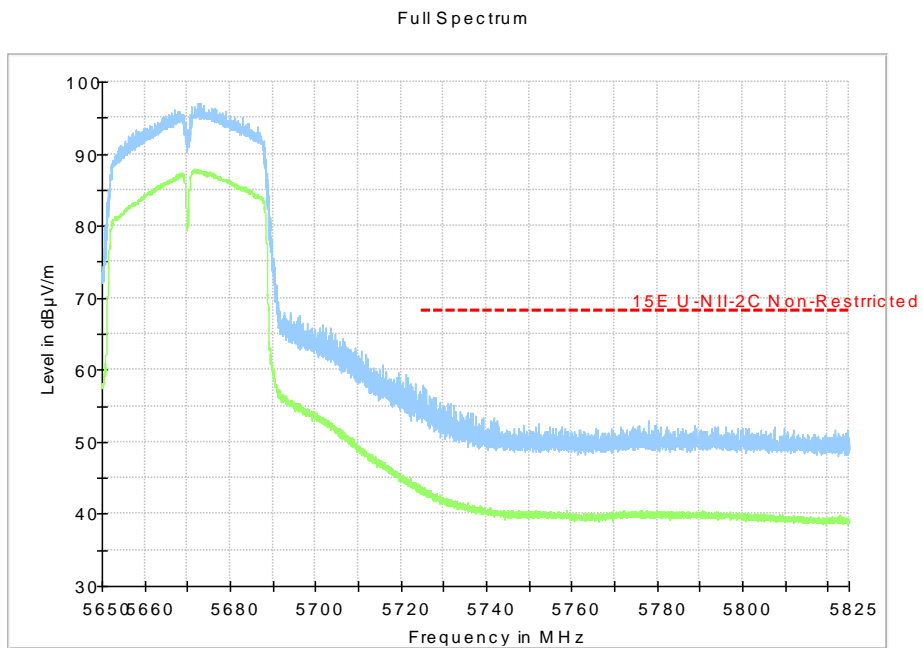
**Fig.64 Band Edges (802.11n-HT40, 5190MHz)**



**Fig.65 Band Edges (802.11n-HT40, 5310MHz)**

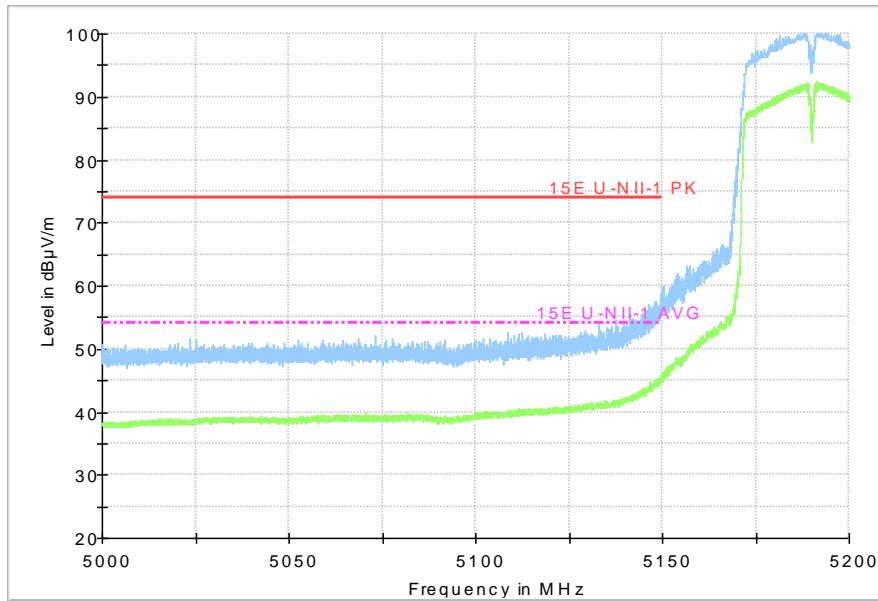


**Fig.66 Band Edges (802.11n-HT40, 5510MHz)**



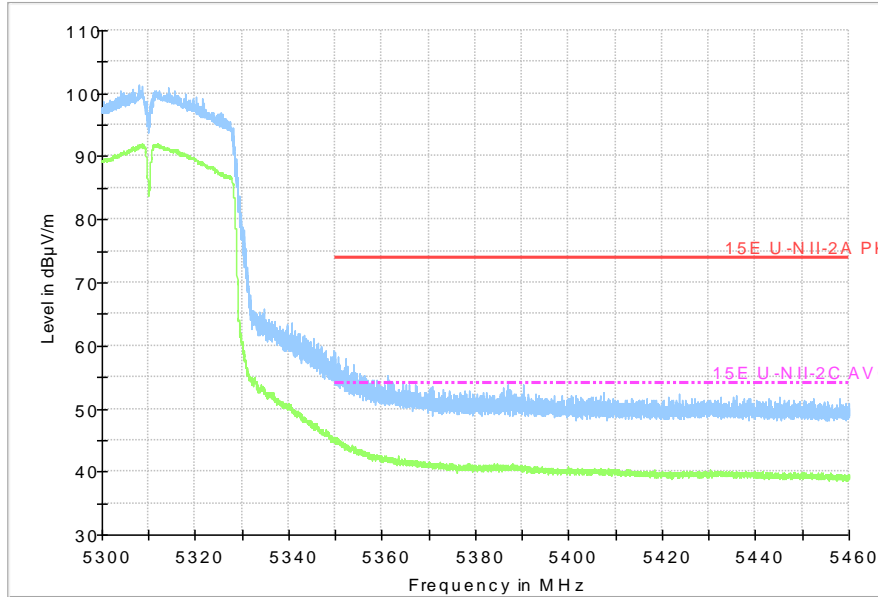
**Fig.67 Band Edges (802.11n-HT40, 5670MHz)**

Full Spectrum

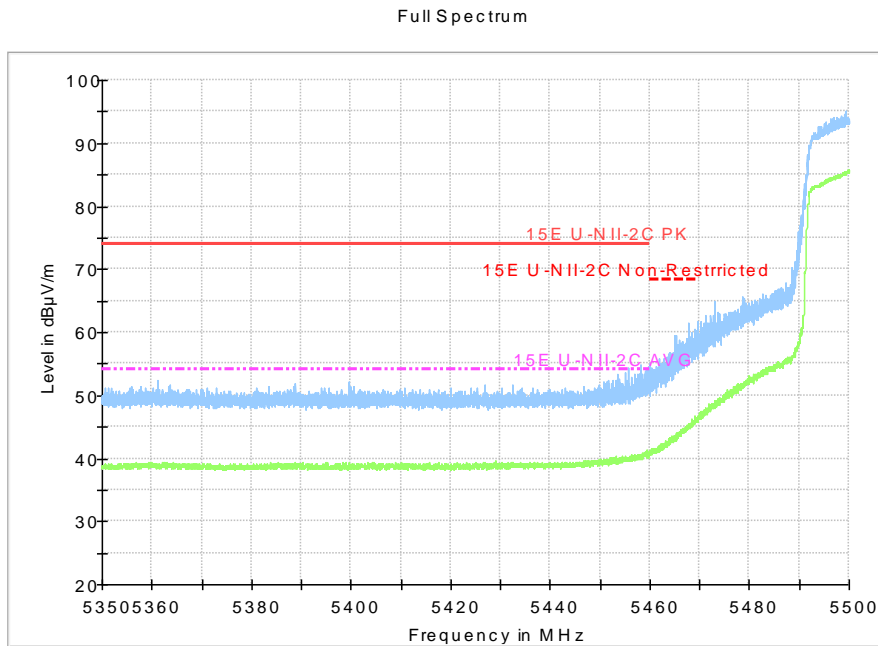


**Fig.68 Band Edges (802.11ac-HT40, 5190MHz)**

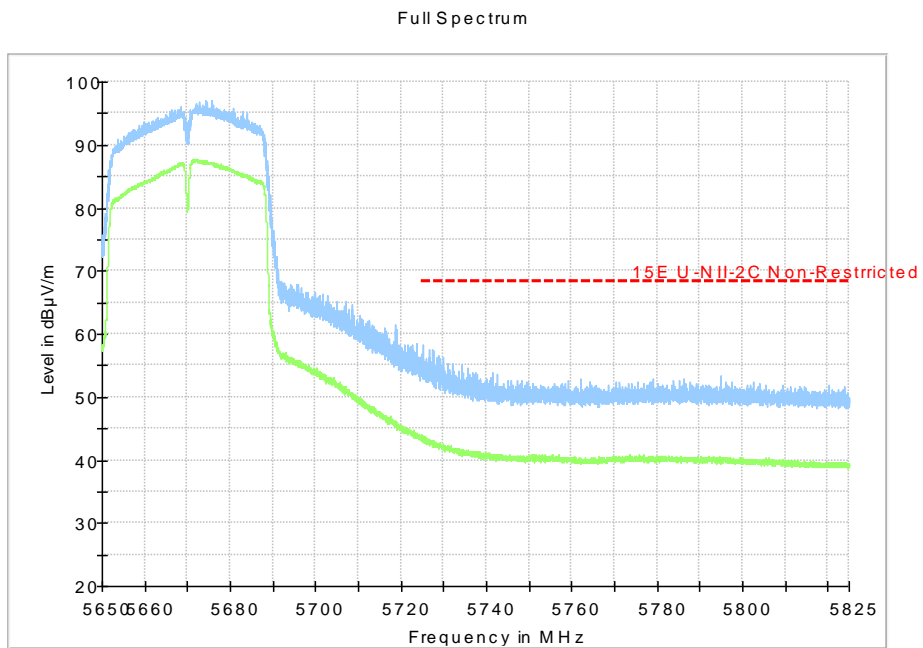
Full Spectrum



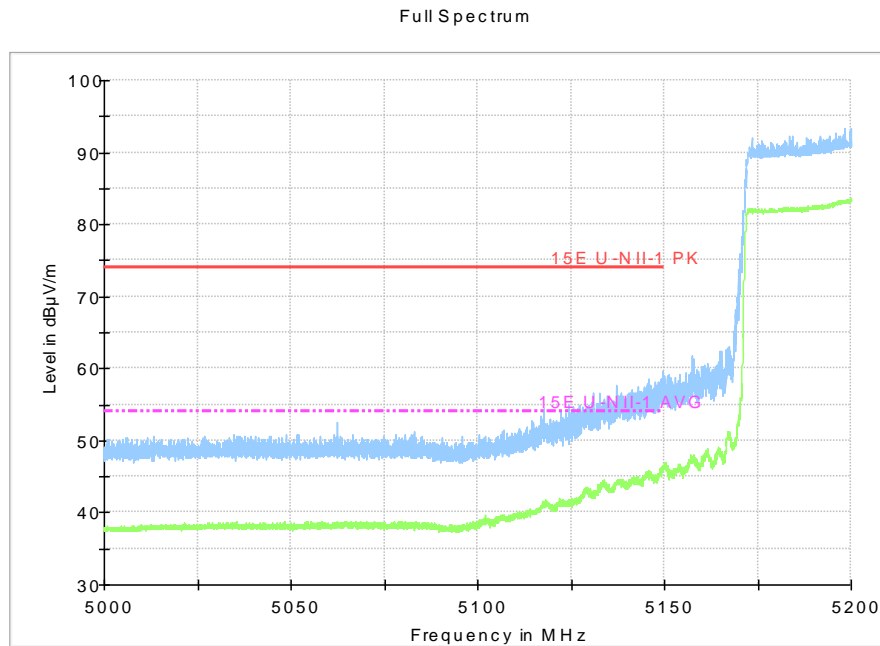
**Fig.69 Band Edges (802.11ac-HT40, 5310MHz)**



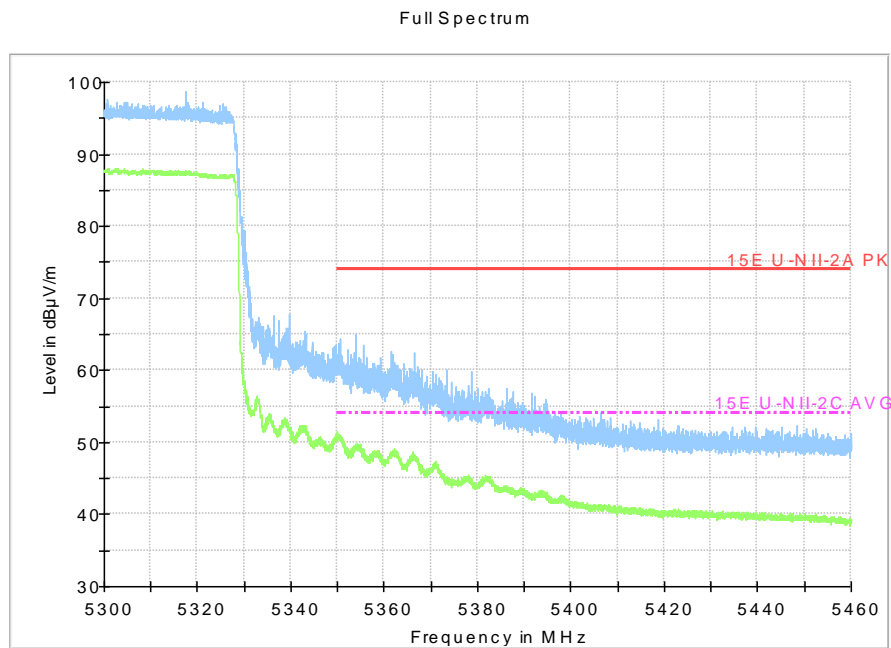
**Fig.70 Band Edges (802.11ac-HT40, 5510MHz)**



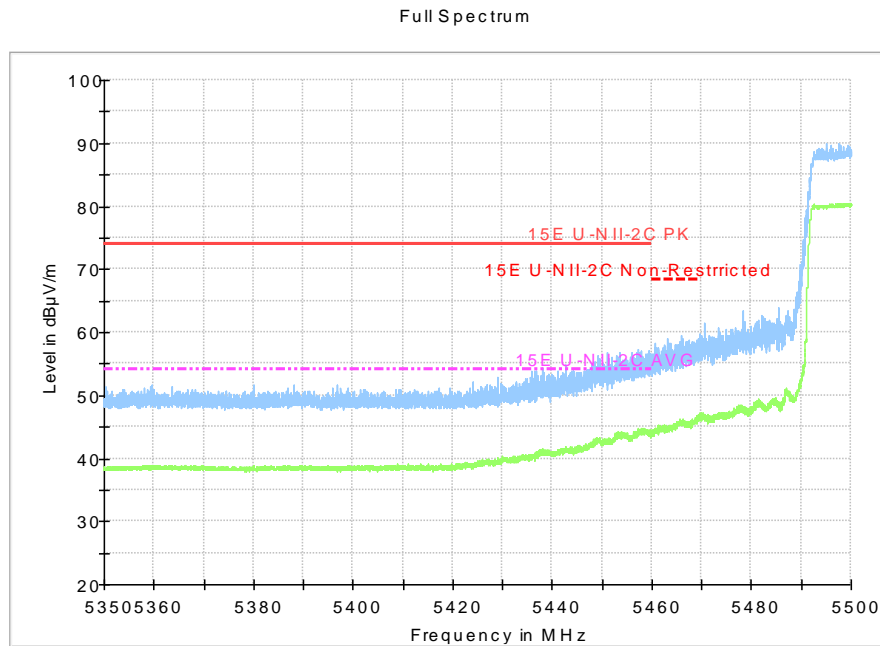
**Fig.71 Band Edges (802.11ac-HT40, 5670MHz)**



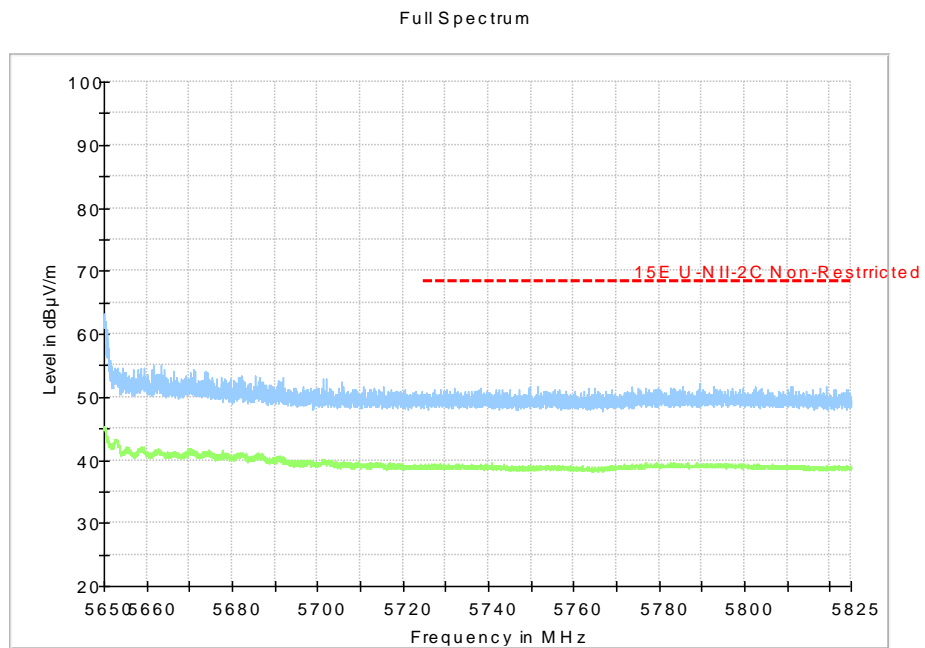
**Fig.72 Band Edges (802.11ac-HT80, 5210MHz)**



**Fig.73 Band Edges (802.11ac-HT80, 5290MHz)**



**Fig.74 Band Edges (802.11ac-HT80, 5530MHz)**



**Fig.75 Band Edges (802.11ac-HT80, 5610MHz)**

## B.6. Transmitter Spurious Emission

### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

The measurement is made according to KDB 789033

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(dBμV/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

### Measurement Results:

**Conclusion: PASS**

### Note:

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

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

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$



**Average**
**802.11a**

## Channel 36

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17994.5	47.2	-25.5	46.7	26	H	54	6.8
17987.3	47.1	-25.5	46.7	25.9	H	54	6.9
17972	47	-25.5	46.7	25.8	V	54	7
17977.5	47	-25.5	46.7	25.8	H	54	7
17981.8	47	-25.5	46.7	25.8	H	54	7
5149.8	42.2	-27.6	33.7	36.1	H	54	11.8

## Channel 40

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17966.5	47.2	-25.5	46.7	26	V	54	6.8
17984	47.2	-25.5	46.7	26	V	54	6.8
17989.5	47.1	-25.5	46.7	25.9	V	54	6.9
17996.2	47.1	-25.5	46.7	25.9	H	54	6.9
17951	47	-25.5	46.7	25.8	V	54	7
17961	47	-25.5	46.7	25.8	H	54	7

## Channel 48

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17978	47.2	-25.5	46.7	26	V	54	6.8
17952.7	47.1	-25.5	46.7	25.9	H	54	6.9
17975.2	47.1	-25.5	46.7	25.9	H	54	6.9
17959.3	47	-25.5	46.7	25.8	H	54	7
17979.1	47	-25.5	46.7	25.8	H	54	7
17962.6	46.9	-25.5	46.7	25.7	H	54	7.1

## Channel 52

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17997.8	47.4	-25.5	46.7	26.2	H	54	6.6
17985.2	47.2	-25.5	46.7	26	H	54	6.8
17973	47.1	-25.5	46.7	25.9	H	54	6.9
17995.6	47.1	-25.5	46.7	25.9	V	54	6.9
17946.1	47	-25.5	46.7	25.8	H	54	7
17989	47	-25.5	46.7	25.8	V	54	7

## Channel 56

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17991.2	47.2	-25.5	46.7	26	V	54	6.8
17979.1	47.1	-25.5	46.7	25.9	H	54	6.9
17947.8	47	-25.5	46.7	25.8	H	54	7
17952.7	47	-25.5	46.7	25.8	H	54	7
17971.4	47	-25.5	46.7	25.8	V	54	7
17986.2	47	-25.5	46.7	25.8	H	54	7

## Channel 64

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17966.5	47	-25.5	46.7	25.8	V	54	7
17969.8	47	-25.5	46.7	25.8	V	54	7
17980.2	47	-25.5	46.7	25.8	V	54	7
17970.8	46.9	-25.5	46.7	25.7	H	54	7.1
17973.6	46.9	-25.5	46.7	25.7	V	54	7.1
5350	43.1	-27.4	34	36.5	H	54	10.9

## Channel 100

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17976.3	47	-25.5	46.7	25.8	V	54	7
17969.2	46.9	-25.5	46.7	25.7	V	54	7.1
17952.7	46.8	-25.5	46.7	25.6	V	54	7.2
17988.5	46.8	-25.5	46.7	25.6	V	54	7.2
17942.2	46.7	-25.5	46.7	25.5	V	54	7.3
5458.5	40.4	-27.2	34.2	33.4	H	54	13.6

## Channel 120

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
16799.9	51	-26.6	41.5	36.1	V	54	3
16801	50.8	-26.6	41.5	35.9	V	54	3.2
16802.7	50.8	-26.6	41.5	35.9	V	54	3.2
16799.3	50.7	-26.6	41.5	35.8	V	54	3.3
16804.3	50.7	-26.6	41.5	35.8	V	54	3.3
16797.2	50.6	-26.6	41.5	35.7	V	54	3.4

## Channel 140

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17098.5	51.9	-26.6	43.4	35.1	V	54	2.1
17101.3	51.9	-26.6	43.4	35.1	V	54	2.1
17099.7	51.8	-26.6	43.4	35	V	54	2.2
17100.8	51.7	-26.6	43.4	34.9	V	54	2.3
17101.8	51.7	-26.6	43.4	34.9	V	54	2.3
5725.5	40.5	-27.1	34.3	33.3	H	54	13.5

**802.11n-HT20**

## Channel 36

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17980.2	47.2	-25.5	46.7	26	V	54	6.8
17958.2	47.1	-25.5	46.7	25.9	V	54	6.9
17954.9	47	-25.5	46.7	25.8	V	54	7
17965.3	47	-25.5	46.7	25.8	V	54	7
17979.7	47	-25.5	46.7	25.8	V	54	7
5149.6	42.9	-27.6	33.7	36.8	H	54	11.1

## Channel 40

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17981.3	47.3	-25.5	46.7	26.1	V	54	6.7
17970.3	47.2	-25.5	46.7	26	V	54	6.8
17979.1	47.1	-25.5	46.7	25.9	V	54	6.9
17989.5	47.1	-25.5	46.7	25.9	V	54	6.9
17976.9	47	-25.5	46.7	25.8	V	54	7
17954.3	46.9	-25.5	46.7	25.7	V	54	7.1

## Channel 48

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17972.5	47.2	-25.5	46.7	26	V	54	6.8
17950	47.1	-25.5	46.7	25.9	V	54	6.9
17996.7	47.1	-25.5	46.7	25.9	V	54	6.9
17964.2	47	-25.5	46.7	25.8	V	54	7
17973.6	47	-25.5	46.7	25.8	V	54	7
17982.4	47	-25.5	46.7	25.8	V	54	7

## Channel 52

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17978	47.4	-25.5	46.7	26.2	V	54	6.6
17978.5	47.3	-25.5	46.7	26.1	V	54	6.7
17973.6	47.1	-25.5	46.7	25.9	V	54	6.9
17984.6	47.1	-25.5	46.7	25.9	V	54	6.9
17991.2	47.1	-25.5	46.7	25.9	V	54	6.9
17994	47.1	-25.5	46.7	25.9	V	54	6.9

## Channel 56

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17975.2	47.4	-25.5	46.7	26.2	V	54	6.6
17985.2	47.2	-25.5	46.7	26	V	54	6.8
17943.9	47	-25.5	46.7	25.8	V	54	7
17961.5	47	-25.5	46.7	25.8	V	54	7
17976.3	47	-25.5	46.7	25.8	V	54	7
17988.5	47	-25.5	46.7	25.8	V	54	7

## Channel 64

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17988.5	47.3	-25.5	46.7	26.1	V	54	6.7
17997.8	47.3	-25.5	46.7	26.1	V	54	6.7
17954.3	47.1	-25.5	46.7	25.9	V	54	6.9
17995.6	47.1	-25.5	46.7	25.9	V	54	6.9
17949.4	46.9	-25.5	46.7	25.7	V	54	7.1
5350.1	43.3	-27.4	34	36.7	H	54	10.7

## Channel 100

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17972.5	47	-25.5	46.7	25.8	V	54	7
17978	46.9	-25.5	46.7	25.7	V	54	7.1
17966.5	46.8	-25.5	46.7	25.6	V	54	7.2
17985.7	46.8	-25.5	46.7	25.6	V	54	7.2
17987.9	46.8	-25.5	46.7	25.6	V	54	7.2
5456	41.3	-27.2	34.2	34.3	H	54	12.7

## Channel 120

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
16802.7	51.5	-26.6	41.5	36.6	V	54	2.5
16802.1	51.2	-26.6	41.5	36.3	V	54	2.8
16799.3	51.1	-26.6	41.5	36.2	V	54	2.9
16800.5	50.8	-26.6	41.5	35.9	V	54	3.2
16801	50.8	-26.6	41.5	35.9	V	54	3.2
16796	50.7	-26.6	41.5	35.8	V	54	3.3

## Channel 140

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17101.8	52.2	-26.6	43.4	35.4	V	54	1.8
17104.6	52.1	-26.6	43.4	35.3	V	54	1.9
17100.8	51.8	-26.6	43.4	35	V	54	2.2
17104	51.8	-26.6	43.4	35	V	54	2.2
17099.1	51.6	-26.6	43.4	34.8	V	54	2.4
5725.1	39.3	-27.1	34.3	32.1	V	54	14.7

**802.11ac-HT20**

## Channel 36

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17947.8	47.1	-25.5	46.7	25.9	V	54	6.9
17983	47.1	-25.5	46.7	25.9	V	54	6.9
17986.8	47	-25.5	46.7	25.8	V	54	7
17963.7	46.9	-25.5	46.7	25.7	V	54	7.1
17967	46.9	-25.5	46.7	25.7	V	54	7.1
5148.7	42	-27.6	33.7	35.9	H	54	12

## Channel 40

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17976.3	47.3	-25.5	46.7	26.1	V	54	6.7
17983	47.2	-25.5	46.7	26	V	54	6.8
17978.5	47.1	-25.5	46.7	25.9	V	54	6.9
17979.1	47.1	-25.5	46.7	25.9	V	54	6.9
17979.7	47.1	-25.5	46.7	25.9	V	54	6.9
17972	47	-25.5	46.7	25.8	V	54	7

## Channel 48

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17952.7	47	-25.5	46.7	25.8	V	54	7
17977.5	47	-25.5	46.7	25.8	V	54	7
17982.4	47	-25.5	46.7	25.8	V	54	7
17940	46.9	-25.5	46.7	25.7	V	54	7.1
17956.5	46.9	-25.5	46.7	25.7	V	54	7.1
17958.2	46.9	-25.5	46.7	25.7	V	54	7.1

## Channel 52

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17986.2	47.1	-25.5	46.7	25.9	V	54	6.9
17987.3	47.1	-25.5	46.7	25.9	V	54	6.9
17958.2	47	-25.5	46.7	25.8	V	54	7
17959.3	47	-25.5	46.7	25.8	V	54	7
17955.5	46.9	-25.5	46.7	25.7	V	54	7.1
17962	46.9	-25.5	46.7	25.7	V	54	7.1

## Channel 56

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17998.3	47.2	-25.5	46.7	26	V	54	6.8
17988.5	47.1	-25.5	46.7	25.9	V	54	6.9
17959.3	47	-25.5	46.7	25.8	V	54	7
17975.2	47	-25.5	46.7	25.8	V	54	7
17980.2	47	-25.5	46.7	25.8	V	54	7
17993.4	47	-25.5	46.7	25.8	V	54	7

## Channel 64

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17995	47.3	-25.5	46.7	26.1	V	54	6.7
17995.6	47.3	-25.5	46.7	26.1	V	54	6.7
17956.5	47.2	-25.5	46.7	26	V	54	6.8
17945	47.1	-25.5	46.7	25.9	H	54	6.9
17961.5	47.1	-25.5	46.7	25.9	H	54	6.9
5352.6	41.3	-16.9	34	24.2	V	54	12.7



## Channel 100

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17993.4	46.9	-25.5	46.7	25.7	V	54	7.1
17948.3	46.8	-25.5	46.7	25.6	V	54	7.2
17963.7	46.8	-25.5	46.7	25.6	V	54	7.2
17965.3	46.8	-25.5	46.7	25.6	V	54	7.2
17973	46.8	-25.5	46.7	25.6	V	54	7.2
5451.1	38.8	-27.2	34.2	31.8	H	54	15.2

## Channel 120

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
16800.5	50.9	-26.6	41.5	36	V	54	3.1
16803.2	50.9	-26.6	41.5	36	V	54	3.1
16801.5	50.8	-26.6	41.5	35.9	V	54	3.2
16798.2	50.7	-26.6	41.5	35.8	V	54	3.3
16802.7	50.7	-26.6	41.5	35.8	V	54	3.3
16799.9	50.6	-26.6	41.5	35.7	V	54	3.4

## Channel 140

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17098	51.6	-26.6	43.4	34.8	V	54	2.4
17100.2	51.6	-26.6	43.4	34.8	V	54	2.4
17102.4	51.6	-26.6	43.4	34.8	V	54	2.4
17099.7	51.5	-26.6	43.4	34.7	V	54	2.5
17101.8	51.5	-26.6	43.4	34.7	V	54	2.5
5725	47.7	-27.1	34.3	40.5	H	54	6.3

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## Channel 38

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17968.1	47.2	-25.5	46.7	26	V	54	6.8
17977.5	47.2	-25.5	46.7	26	V	54	6.8
17982.4	47	-25.5	46.7	25.8	V	54	7
17960.4	46.9	-25.5	46.7	25.7	V	54	7.1
17970.8	46.9	-25.5	46.7	25.7	V	54	7.1
5149.3	45.1	-27.6	33.7	39	H	54	8.9

## Channel 46

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17998.3	47.1	-25.5	46.7	25.9	V	54	6.9
17932.9	47	-25.5	46.7	25.8	V	54	7
17966.5	47	-25.5	46.7	25.8	V	54	7
17968.7	47	-25.5	46.7	25.8	V	54	7
17987.9	47	-25.5	46.7	25.8	V	54	7
17958.8	46.9	-25.5	46.7	25.7	V	54	7.1

## Channel 54

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17964.2	47	-25.5	46.7	25.8	V	54	7
17969.8	47	-25.5	46.7	25.8	V	54	7
17975.2	47	-25.5	46.7	25.8	V	54	7
17943.3	46.9	-25.5	46.7	25.7	V	54	7.1
17953.2	46.9	-25.5	46.7	25.7	V	54	7.1
17980.2	46.9	-25.5	46.7	25.7	V	54	7.1

## Channel 62

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17975.2	47.1	-25.5	46.7	25.9	V	54	6.9
17952.2	47	-25.5	46.7	25.8	V	54	7
17961.5	46.9	-25.5	46.7	25.7	V	54	7.1
17973.6	46.9	-25.5	46.7	25.7	V	54	7.1
17984.6	46.9	-25.5	46.7	25.7	V	54	7.1
5350	46.2	-27.4	34	39.6	H	54	7.8

## Channel 102

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17952.2	46.9	-25.5	46.7	25.7	V	54	7.1
17970.8	46.9	-25.5	46.7	25.7	V	54	7.1
17981.3	46.9	-25.5	46.7	25.7	V	54	7.1
17941.2	46.8	-25.5	46.7	25.6	V	54	7.2
17987.3	46.8	-25.5	46.7	25.6	V	54	7.2
5459.6	47.9	-27.2	34.2	40.9	H	54	6.1

## Channel 118

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17980.8	47	-25.5	46.7	25.8	V	54	7
17946.7	46.9	-25.5	46.7	25.7	V	54	7.1
17976.9	46.9	-25.5	46.7	25.7	V	54	7.1
17991.8	46.9	-25.5	46.7	25.7	V	54	7.1
17960.4	46.8	-25.5	46.7	25.6	V	54	7.2
17974.2	46.8	-25.5	46.7	25.6	V	54	7.2

## Channel 134

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17959.8	46.9	-25.5	46.7	25.7	V	54	7.1
17984	46.9	-25.5	46.7	25.7	V	54	7.1
17964.2	46.8	-25.5	46.7	25.6	V	54	7.2
17935.1	46.7	-25.5	46.7	25.5	V	54	7.3
17943.3	46.7	-25.5	46.7	25.5	V	54	7.3
5725.4	43.8	-27.1	34.3	36.6	H	54	10.2

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## Channel 38

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17946.1	47.1	-25.5	46.7	25.9	V	54	6.9
17973	47.1	-25.5	46.7	25.9	V	54	6.9
17963.7	47	-25.5	46.7	25.8	V	54	7
17972.5	47	-25.5	46.7	25.8	V	54	7
17974.2	47	-25.5	46.7	25.8	V	54	7
5149.9	46.2	-27.6	33.7	40.1	H	54	7.8

## Channel 46

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17972.5	47.4	-25.5	46.7	26.2	V	54	6.6
17966.5	47.3	-25.5	46.7	26.1	V	54	6.7
17987.9	47.3	-25.5	46.7	26.1	V	54	6.7
17981.3	47.1	-25.5	46.7	25.9	V	54	6.9
17980.2	47	-25.5	46.7	25.8	V	54	7
17996.7	47	-25.5	46.7	25.8	V	54	7

## Channel 54

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17991.2	47.4	-25.5	46.7	26.2	V	54	6.6
17989	47.1	-25.5	46.7	25.9	V	54	6.9
17974.2	47	-25.5	46.7	25.8	V	54	7
17975.8	47	-25.5	46.7	25.8	V	54	7
17978	47	-25.5	46.7	25.8	V	54	7
17995	47	-25.5	46.7	25.8	V	54	7

## Channel 62

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17966.5	47.2	-25.5	46.7	26	V	54	6.8
17976.3	47.1	-25.5	46.7	25.9	V	54	6.9
17990.7	47.1	-25.5	46.7	25.9	V	54	6.9
17956	47	-25.5	46.7	25.8	V	54	7
17985.2	47	-25.5	46.7	25.8	V	54	7
5350.2	45.4	-27.4	34	38.8	H	54	8.6

## Channel 102

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17984	47.1	-25.5	46.7	25.9	V	54	6.9
17944.5	47	-25.5	46.7	25.8	V	54	7
17966.5	47	-25.5	46.7	25.8	V	54	7
17948.3	46.9	-25.5	46.7	25.7	V	54	7.1
17959.3	46.9	-25.5	46.7	25.7	V	54	7.1
5459.3	41.3	-27.2	34.2	34.3	H	54	12.7

## Channel 118

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17975.8	47	-25.5	46.7	25.8	V	54	7
17953.8	46.9	-25.5	46.7	25.7	V	54	7.1
17961	46.9	-25.5	46.7	25.7	V	54	7.1
17990.7	46.9	-25.5	46.7	25.7	V	54	7.1
17997.8	46.9	-25.5	46.7	25.7	V	54	7.1
17987.9	46.8	-25.5	46.7	25.6	V	54	7.2

## Channel 134

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17961	47.1	-25.5	46.7	25.9	V	54	6.9
17996.2	47.1	-25.5	46.7	25.9	V	54	6.9
17959.8	46.9	-25.5	46.7	25.7	V	54	7.1
17989	46.9	-25.5	46.7	25.7	V	54	7.1
17941.7	46.8	-25.5	46.7	25.6	V	54	7.2
5725.1	43.7	-27.1	34.3	36.5	H	54	10.3

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## Channel 42

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17987.9	47.2	-25.5	46.7	26	V	54	6.8
17955.5	47.1	-25.5	46.7	25.9	V	54	6.9
17987.3	47	-25.5	46.7	25.8	V	54	7
17959.3	46.9	-25.5	46.7	25.7	V	54	7.1
17974.2	46.9	-25.5	46.7	25.7	V	54	7.1
5149.9	47	-27.6	33.7	40.9	H	54	7

## Channel 58

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17974.7	47.2	-25.5	46.7	26	V	54	6.8
17957.7	47.1	-25.5	46.7	25.9	V	54	6.9
17962	47.1	-25.5	46.7	25.9	V	54	6.9
17981.3	47.1	-25.5	46.7	25.9	V	54	6.9
17985.2	47.1	-25.5	46.7	25.9	V	54	6.9
5350.1	51.1	-27.4	34	44.5	H	54	2.9

## Channel 106

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17959.8	47	-25.5	46.7	25.8	V	54	7
17979.7	46.9	-25.5	46.7	25.7	V	54	7.1
17981.3	46.9	-25.5	46.7	25.7	V	54	7.1
17998.3	46.9	-25.5	46.7	25.7	V	54	7.1
17960.4	46.8	-25.5	46.7	25.6	V	54	7.2
5457.2	44.7	-27.2	34.2	37.7	H	54	9.3

## Channel 122

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17957.1	46.8	-17.7	45.6	18.9	H	54	7.2
17977.45	46.8	-17.7	45.6	18.9	H	54	7.2
17985.7	46.8	-17.7	45.6	18.9	V	54	7.2
17955.45	46.8	-17.7	45.6	18.9	H	54	7.2
17992.85	46.8	-17.7	45.6	18.9	H	54	7.2
57269.825	39.355	-17.7	45.6	15	H	54	14.6

**Peak**
**802.11a**

## Channel 36

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17935.7	58.6	-25.5	46.7	37.4	H	74	15.4
17983	58.2	-25.5	46.7	37	H	74	15.8
17939	58	-25.5	46.7	36.8	V	74	16
17902.7	57.9	-25.5	46.7	36.7	H	74	16.1
17958.8	57.9	-25.5	46.7	36.7	H	74	16.1
5132	53.9	-27.6	33.7	47.8	H	74	20.1

## Channel 40

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17981.3	58.9	-25.5	46.7	37.7	V	74	15.1
17986.8	58.8	-25.5	46.7	37.6	H	74	15.2
17991.8	58.4	-25.5	46.7	37.2	V	74	15.6
17873	58.3	-25.5	46.7	37.1	V	74	15.7
17977.5	58.2	-25.5	46.7	37	V	74	15.8
17981.8	58.1	-25.5	46.7	36.9	V	74	15.9

## Channel 48

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17975.2	58.2	-25.5	46.7	37	H	74	15.8
17970.8	58.1	-25.5	46.7	36.9	H	74	15.9
17975.8	58.1	-25.5	46.7	36.9	H	74	15.9
17959.3	58	-25.5	46.7	36.8	H	74	16
17959.8	57.9	-25.5	46.7	36.7	H	74	16.1
17972	57.9	-25.5	46.7	36.7	H	74	16.1



## Channel 52

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17980.8	58.6	-25.5	46.7	37.4	V	74	15.4
17983.5	58.4	-25.5	46.7	37.2	H	74	15.6
17986.2	58.2	-25.5	46.7	37	H	74	15.8
17963.7	58.1	-25.5	46.7	36.9	V	74	15.9
17950.5	57.9	-25.5	46.7	36.7	H	74	16.1
17964.2	57.9	-25.5	46.7	36.7	H	74	16.1

## Channel 56

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17987.9	58.5	-25.5	46.7	37.3	H	74	15.5
17994	58.4	-25.5	46.7	37.2	H	74	15.6
17877.3	58.3	-25.5	46.7	37.1	H	74	15.7
17951	58.3	-25.5	46.7	37.1	H	74	15.7
17962.6	58.3	-25.5	46.7	37.1	V	74	15.7
17964.8	58.3	-25.5	46.7	37.1	H	74	15.7

## Channel 64

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17836.1	59.1	-25.5	46.7	37.9	H	74	14.9
17958.8	59	-25.5	46.7	37.8	V	74	15
17944.5	58.7	-25.5	46.7	37.5	V	74	15.3
17960.4	58.7	-25.5	46.7	37.5	H	74	15.3
17962.6	58.3	-25.5	46.7	37.1	V	74	15.7
5363.2	55.1	-27.4	34	48.5	H	74	18.9

## Channel 100

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17989.5	59.5	-25.5	46.7	38.3	V	74	14.5
17981.8	58.3	-25.5	46.7	37.1	V	74	15.7
17961.5	58.2	-25.5	46.7	37	V	74	15.8
17985.7	58.2	-25.5	46.7	37	V	74	15.8
17995	57.9	-25.5	46.7	36.7	V	74	16.1
5459.7	56.6	-27.2	34.2	49.6	H	74	17.4

## Channel 120

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
16801	62.9	-26.6	41.5	48	V	74	11.1
16799.9	62.6	-26.6	41.5	47.7	V	74	11.4
16806.5	62.5	-26.6	41.5	47.6	V	74	11.5
16800.5	62.4	-26.6	41.5	47.5	V	74	11.6
16801.5	62	-26.6	41.5	47.1	V	74	12
16809.2	61.7	-26.6	41.5	46.8	V	74	12.3

## Channel 140

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17100.2	65.1	-26.6	43.4	48.3	V	74	8.9
17101.3	64.3	-26.6	43.4	47.5	V	74	9.7
17098.5	64.1	-26.6	43.4	47.3	V	74	9.9
17101.8	63.3	-26.6	43.4	46.5	V	74	10.7
17092	62.9	-26.6	43.4	46.1	V	74	11.1
5725	55	-27.1	34.3	47.8	H	74	19

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## Channel 36

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17859.8	58.4	-25.5	46.7	37.2	V	74	15.6
17958.8	58.4	-25.5	46.7	37.2	V	74	15.6
17958.2	58.3	-25.5	46.7	37.1	V	74	15.7
17962	57.9	-25.5	46.7	36.7	V	74	16.1
17954.9	57.7	-25.5	46.7	36.5	V	74	16.3
5147.4	57.9	-27.6	33.7	51.8	H	74	16.1

## Channel 40

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17957.1	58.5	-25.5	46.7	37.3	V	74	15.5
17981.8	58.3	-25.5	46.7	37.1	V	74	15.7
17956.5	58.2	-25.5	46.7	37	V	74	15.8
17935.7	57.9	-25.5	46.7	36.7	V	74	16.1
17946.7	57.9	-25.5	46.7	36.7	V	74	16.1
17961	57.9	-25.5	46.7	36.7	V	74	16.1

## Channel 48

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17953.2	58.6	-25.5	46.7	37.4	V	74	15.4
17978.5	58.2	-25.5	46.7	37	V	74	15.8
17972	58.1	-25.5	46.7	36.9	V	74	15.9
17991.2	57.9	-25.5	46.7	36.7	V	74	16.1
17996.7	57.9	-25.5	46.7	36.7	V	74	16.1
17997.2	57.9	-25.5	46.7	36.7	V	74	16.1

## Channel 52

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17962	59.1	-25.5	46.7	37.9	V	74	14.9
17964.8	58.5	-25.5	46.7	37.3	V	74	15.5
17978.5	58.3	-25.5	46.7	37.1	V	74	15.7
17892.2	58	-25.5	46.7	36.8	V	74	16
17990.7	58	-25.5	46.7	36.8	V	74	16
17966.5	57.9	-25.5	46.7	36.7	V	74	16.1

## Channel 56

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17989.5	58.6	-25.5	46.7	37.4	V	74	15.4
17961.5	58.5	-25.5	46.7	37.3	V	74	15.5
17963.7	58.5	-25.5	46.7	37.3	V	74	15.5
17998.9	58.3	-25.5	46.7	37.1	V	74	15.7
17960.4	58.2	-25.5	46.7	37	V	74	15.8
17993.4	58.2	-25.5	46.7	37	V	74	15.8

## Channel 64

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17980.2	59.2	-25.5	46.7	38	V	74	14.8
17976.9	58.5	-25.5	46.7	37.3	V	74	15.5
17930.2	58.1	-25.5	46.7	36.9	V	74	15.9
17952.7	58.1	-25.5	46.7	36.9	V	74	15.9
17926.3	58	-25.5	46.7	36.8	V	74	16
5351	58.6	-27.4	34	52	H	74	15.4

## Channel 100

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17929	58.7	-25.5	46.7	37.5	V	74	15.3
17975.8	58.4	-25.5	46.7	37.2	V	74	15.6
17964.2	57.8	-25.5	46.7	36.6	V	74	16.2
17965.3	57.8	-25.5	46.7	36.6	V	74	16.2
17871.8	57.6	-25.5	46.7	36.4	V	74	16.4
5451.6	53.2	-27.2	34.2	46.2	H	74	20.8

## Channel 120

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
16802.7	64.3	-26.6	41.5	49.4	V	74	9.7
16801	62.3	-26.6	41.5	47.4	V	74	11.7
16793.8	62	-26.6	41.5	47.1	V	74	12
16802.1	62	-26.6	41.5	47.1	V	74	12
16800.5	61.9	-26.6	41.5	47	V	74	12.1
16809.2	61.7	-26.6	41.5	46.8	V	74	12.3

## Channel 140

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17098	64.7	-26.6	43.4	47.9	V	74	9.3
17105.7	64.1	-26.6	43.4	47.3	V	74	9.9
17099.1	64	-26.6	43.4	47.2	V	74	10
17104.6	63.4	-26.6	43.4	46.6	V	74	10.6
17100.8	63.3	-26.6	43.4	46.5	V	74	10.7
5738.2	52.4	-27.1	34.3	45.2	V	74	21.6

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## Channel 36

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17992.3	59.4	-25.5	46.7	38.2	V	74	14.6
17993.4	59	-25.5	46.7	37.8	V	74	15
17934	58.5	-25.5	46.7	37.3	V	74	15.5
17972	58.1	-25.5	46.7	36.9	V	74	15.9
17710.2	58	-25.7	46	37.8	V	74	16
5147.2	54.7	-27.6	33.7	48.6	H	74	19.3

## Channel 40

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17978.5	58.1	-25.5	46.7	36.9	V	74	15.9
17871.3	58	-25.5	46.7	36.8	V	74	16
17954.9	58	-25.5	46.7	36.8	V	74	16
17946.1	57.9	-25.5	46.7	36.7	V	74	16.1
17951	57.7	-25.5	46.7	36.5	V	74	16.3
17893.3	57.5	-25.5	46.7	36.3	V	74	16.5

## Channel 48

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17937.3	58.4	-25.5	46.7	37.2	V	74	15.6
17982.4	58.2	-25.5	46.7	37	V	74	15.8
17931.8	58.1	-25.5	46.7	36.9	V	74	15.9
17934	57.9	-25.5	46.7	36.7	V	74	16.1
17858.1	57.8	-25.5	46.7	36.6	V	74	16.2
17919.7	57.8	-25.5	46.7	36.6	V	74	16.2

## Channel 52

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17989.5	59.3	-25.5	46.7	38.1	V	74	14.7
17859.2	58.5	-25.5	46.7	37.3	V	74	15.5
17946.7	58.4	-25.5	46.7	37.2	V	74	15.6
17837.2	58.2	-25.5	46.7	37	V	74	15.8
17895	58.1	-25.5	46.7	36.9	V	74	15.9
17984.6	58	-25.5	46.7	36.8	V	74	16

## Channel 56

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17961	58.7	-25.5	46.7	37.5	V	74	15.3
17958.2	58.4	-25.5	46.7	37.2	V	74	15.6
17988.5	58	-25.5	46.7	36.8	V	74	16
17979.7	57.9	-25.5	46.7	36.7	V	74	16.1
17873	57.8	-25.5	46.7	36.6	V	74	16.2
17971.4	57.8	-25.5	46.7	36.6	V	74	16.2

## Channel 64

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17995.6	58.9	-25.5	46.7	37.7	V	74	15.1
17971.4	58.8	-25.5	46.7	37.6	V	74	15.2
17808	58.2	-25.5	46.7	37	V	74	15.8
17958.2	58.1	-25.5	46.7	36.9	V	74	15.9
17996.7	58.1	-25.5	46.7	36.9	V	74	15.9
5352.2	58.1	-27.4	34	51.5	H	74	15.9

## Channel 100

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17949.4	58.7	-25.5	46.7	37.5	V	74	15.3
17973	57.9	-25.5	46.7	36.7	V	74	16.1
17948.8	57.8	-25.5	46.7	36.6	V	74	16.2
17940.6	57.6	-25.5	46.7	36.4	V	74	16.4
17964.8	57.5	-25.5	46.7	36.3	V	74	16.5
5452.3	51	-27.2	34.2	44	H	74	23

## Channel 120

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
16799.9	62.8	-26.6	41.5	47.9	V	74	11.2
16800.5	62.5	-26.6	41.5	47.6	V	74	11.5
16798.2	62.4	-26.6	41.5	47.5	V	74	11.6
16793.3	61.9	-26.6	41.5	47	V	74	12.1
16795.5	61.7	-26.6	41.5	46.8	V	74	12.3
16797.7	61.5	-26.6	41.5	46.6	V	74	12.5

## Channel 140

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17104	64.2	-26.6	43.4	47.4	V	74	9.8
17099.1	63.1	-26.6	43.4	46.3	V	74	10.9
17103	63	-26.6	43.4	46.2	V	74	11
17098.5	62.6	-26.6	43.4	45.8	V	74	11.4
17101.3	62.5	-26.6	43.4	45.7	V	74	11.5
5726.3	63.9	-27.1	34.3	56.7	H	74	10.1



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## Channel 38

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17786.6	58.3	-25.5	46.7	37.1	V	74	15.7
17992.3	58.2	-25.5	46.7	37	V	74	15.8
17998.3	58.2	-25.5	46.7	37	V	74	15.8
17951.6	58	-25.5	46.7	36.8	V	74	16
17968.7	58	-25.5	46.7	36.8	V	74	16
5150	61.4	-27.6	33.7	55.3	H	74	12.6

## Channel 46

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17973.6	58.7	-25.5	46.7	37.5	V	74	15.3
17977.5	58.5	-25.5	46.7	37.3	V	74	15.5
17959.3	58.2	-25.5	46.7	37	V	74	15.8
17956.5	58.1	-25.5	46.7	36.9	V	74	15.9
17998.3	58.1	-25.5	46.7	36.9	V	74	15.9
17754.2	58	-25.5	46.7	36.8	V	74	16

## Channel 54

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17970.8	58.1	-25.5	46.7	36.9	V	74	15.9
17976.3	58	-25.5	46.7	36.8	V	74	16
17932.3	57.9	-25.5	46.7	36.7	V	74	16.1
17937.3	57.9	-25.5	46.7	36.7	V	74	16.1
17965.3	57.9	-25.5	46.7	36.7	V	74	16.1
17998.9	57.9	-25.5	46.7	36.7	V	74	16.1

## Channel 62

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17945.5	58.8	-25.5	46.7	37.6	V	74	15.2
17886.2	58.3	-25.5	46.7	37.1	V	74	15.7
17946.1	58.3	-25.5	46.7	37.1	V	74	15.7
17991.2	58.3	-25.5	46.7	37.1	V	74	15.7
17846.5	58.1	-25.5	46.7	36.9	V	74	15.9
5350.9	59.1	-27.4	34	52.5	H	74	14.9

## Channel 102

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17975.2	59.1	-25.5	46.7	37.9	V	74	14.9
17987.9	58.2	-25.5	46.7	37	V	74	15.8
17978.5	58.1	-25.5	46.7	36.9	V	74	15.9
17923.5	57.9	-25.5	46.7	36.7	V	74	16.1
17969.8	57.9	-25.5	46.7	36.7	V	74	16.1
5458.4	61.8	-27.2	34.2	54.8	H	74	12.2

## Channel 118

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17976.9	58.9	-25.5	46.7	37.7	V	74	15.1
17982.4	57.8	-25.5	46.7	36.6	V	74	16.2
17848.8	57.7	-25.5	46.7	36.5	V	74	16.3
17850.4	57.7	-25.5	46.7	36.5	V	74	16.3
17966.5	57.7	-25.5	46.7	36.5	V	74	16.3
17986.2	57.7	-25.5	46.7	36.5	V	74	16.3

## Channel 134

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17978.5	59.1	-25.5	46.7	37.9	H	74	14.9
17963.2	58.7	-25.5	46.7	37.5	V	74	15.3
17985.7	58.5	-25.5	46.7	37.3	V	74	15.5
17969.2	58.3	-25.5	46.7	37.1	H	74	15.7
17980.2	58.3	-25.5	46.7	37.1	V	74	15.7
5732.9	56.8	-16.3	34.3	38.8	H	74	17.2

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## Channel 38

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17945.5	59.2	-25.5	46.7	38	V	74	14.8
17957.1	58.5	-25.5	46.7	37.3	V	74	15.5
17952.2	58.4	-25.5	46.7	37.2	V	74	15.6
17942.8	58.2	-25.5	46.7	37	V	74	15.8
17948.3	58.1	-25.5	46.7	36.9	V	74	15.9
5149.7	58.8	-27.6	33.7	52.7	H	74	15.2

## Channel 46

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17998.9	58.8	-25.5	46.7	37.6	V	74	15.2
17973	58.7	-25.5	46.7	37.5	V	74	15.3
17986.8	58.4	-25.5	46.7	37.2	V	74	15.6
17948.8	58.3	-25.5	46.7	37.1	V	74	15.7
17953.8	58.1	-25.5	46.7	36.9	V	74	15.9
17973.6	58.1	-25.5	46.7	36.9	V	74	15.9

## Channel 54

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17977.5	58.5	-25.5	46.7	37.3	V	74	15.5
17954.9	58.2	-25.5	46.7	37	V	74	15.8
17975.2	58.2	-25.5	46.7	37	V	74	15.8
17959.8	58	-25.5	46.7	36.8	V	74	16
17945.5	57.9	-25.5	46.7	36.7	V	74	16.1
17992.8	57.9	-25.5	46.7	36.7	V	74	16.1

## Channel 62

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17961	58.1	-25.5	46.7	36.9	V	74	15.9
17862	58	-25.5	46.7	36.8	V	74	16
17942.8	57.9	-25.5	46.7	36.7	V	74	16.1
17983.5	57.8	-25.5	46.7	36.6	V	74	16.2
17904.8	57.7	-25.5	46.7	36.5	V	74	16.3
5350.7	58.1	-27.4	34	51.5	H	74	15.9

## Channel 102

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17944.5	58.3	-25.5	46.7	37.1	V	74	15.7
17955.5	58.3	-25.5	46.7	37.1	V	74	15.7
17952.7	58	-25.5	46.7	36.8	V	74	16
17968.7	58	-25.5	46.7	36.8	V	74	16
17989.5	58	-25.5	46.7	36.8	V	74	16
5458.3	54.9	-27.2	34.2	47.9	H	74	19.1

## Channel 118

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17985.7	58.7	-25.5	46.7	37.5	V	74	15.3
17975.2	58.3	-25.5	46.7	37.1	V	74	15.7
17989	58.2	-25.5	46.7	37	V	74	15.8
17957.7	58.1	-25.5	46.7	36.9	V	74	15.9
17997.8	58.1	-25.5	46.7	36.9	V	74	15.9
17840	58	-25.5	46.7	36.8	V	74	16

## Channel 134

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17900.5	58.7	-25.5	46.7	37.5	V	74	15.3
17943.3	58	-25.5	46.7	36.8	V	74	16
17990.1	58	-25.5	46.7	36.8	V	74	16
17940.6	57.8	-25.5	46.7	36.6	V	74	16.2
17961	57.8	-25.5	46.7	36.6	V	74	16.2
5725.4	58.2	-27.1	34.3	51	H	74	15.8

**802.11ac-HT80**

## Channel 42

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17954.9	58.6	-25.5	46.7	37.4	V	74	15.4
17936.2	58.3	-25.5	46.7	37.1	V	74	15.7
17858.7	58.1	-25.5	46.7	36.9	V	74	15.9
17907.6	57.8	-25.5	46.7	36.6	V	74	16.2
17959.8	57.8	-25.5	46.7	36.6	V	74	16.2
5149.6	59.7	-27.6	33.7	53.6	H	74	14.3

## Channel 58

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17992.3	59	-25.5	46.7	37.8	V	74	15
17994.5	58.6	-25.5	46.7	37.4	V	74	15.4
17985.7	58.2	-25.5	46.7	37	V	74	15.8
17973	58.1	-25.5	46.7	36.9	V	74	15.9
17979.7	58.1	-25.5	46.7	36.9	V	74	15.9
5353.9	65	-27.4	34	58.4	H	74	9

## Channel 106

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
5458.6	60.3	-36.8	33.4	63.7	H	74	13.7
17981.3	58.4	-25.5	43.4	40.5	H	74	15.6
17990.7	58.4	-25.5	43.4	40.5	V	74	15.6
17993.4	58.4	-25.5	43.4	40.5	H	74	15.6
17982.4	58.3	-25.5	43.4	40.4	H	74	15.7
17970.9	58.3	-25.5	43.4	40.4	H	74	15.7

## Channel 122

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17966.45	58.1	-17.7	45.6	30.2	H	74	15.9
17953.25	57.9	-17.7	45.6	30	H	74	16.1
17956.55	57.7	-17.7	45.6	29.8	V	74	16.3
17975.25	57.7	-17.7	45.6	29.8	H	74	16.3
17951.05	57.5	-17.7	45.6	29.6	H	74	16.5
5789.405	52.2	-33.8	35.1	50.9	H	74	21.8

Sample calculation:

802.11ac 80MHz CH122–Peak, 5789.405 MHz

Result (dBuV/m) = PMea(50.5) + Cable Loss(-33.8) + Antenna Factor(35.1) =52.2 dBuV/m

### B.7. AC Powerline Conducted Emission (150kHz- 30MHz)

**Test Condition:**

Voltage (V)	Frequency (Hz)
110	60

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig.76	Fig.77	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		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.76	Fig.77	P
0.5 to 5	46			
5 to 30	50			

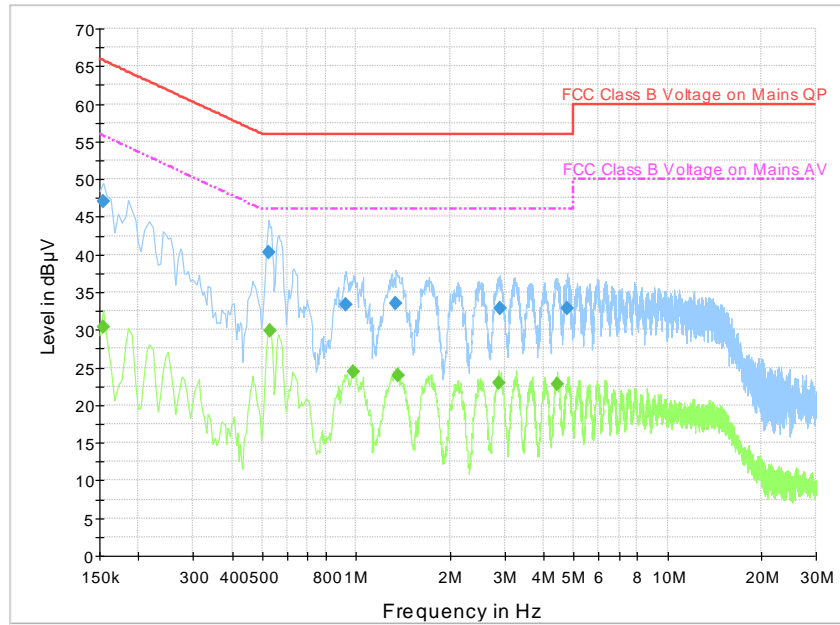
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: The measurement results showed here are worst cases.

**Conclusion: PASS**

**Test graphs as below:**

**Result for Traffic:**



**Fig.76 Conducted Emission (802.11a, Ch36, TX)**

**Final Result 1**

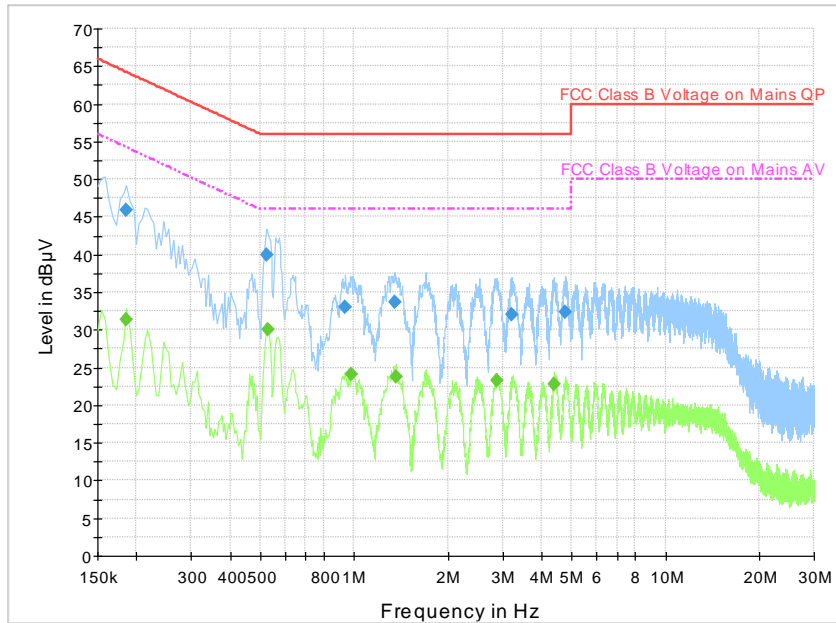
Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	47.0	L1	19.7	18.7	65.8
0.523500	40.2	N	19.5	15.8	56.0
0.924000	33.3	L1	19.6	22.7	56.0
1.342500	33.6	L1	19.6	22.4	56.0
2.890500	32.8	L1	19.6	23.2	56.0
4.771500	32.8	L1	19.8	23.2	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	30.4	L1	19.7	25.4	55.8
0.528000	29.9	L1	19.6	16.1	46.0
0.982500	24.4	N	19.6	21.6	46.0
1.360500	24.0	L1	19.6	22.0	46.0
2.872500	23.0	L1	19.6	23.0	46.0
4.438500	22.8	L1	19.8	23.2	46.0



**Result for Idle:**



**Fig.77 Conducted Emission (802.11a, RX)**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	45.9	L1	19.7	18.3	64.2
0.523500	39.9	N	19.5	16.1	56.0
0.937500	33.1	L1	19.6	22.9	56.0
1.351500	33.7	N	19.6	22.3	56.0
3.201000	32.1	N	19.6	23.9	56.0
4.771500	32.4	N	19.7	23.6	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	31.4	L1	19.7	22.8	54.2
0.528000	30.0	N	19.5	16.0	46.0
0.982500	24.1	N	19.6	21.9	46.0
1.365000	23.8	L1	19.6	22.2	46.0
2.877000	23.2	L1	19.6	22.8	46.0
4.402500	22.9	N	19.7	23.1	46.0

### B.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
802.11a	5180 MHz	Fig.78	17.27	P
	5200 MHz	Fig.79	17.26	P
	5240 MHz	Fig.80	17.20	P
802.11n HT20	5180 MHz	Fig.81	18.10	P
	5200 MHz	Fig.82	18.08	P
	5240 MHz	Fig.83	18.11	P
802.11ac HT20	5180 MHz	Fig.84	18.11	P
	5200 MHz	Fig.85	18.13	P
	5240 MHz	Fig.86	17.97	P
802.11n HT40	5190 MHz	Fig.87	36.18	P
	5230 MHz	Fig.88	36.19	P
802.11ac	5190 MHz	Fig.89	36.18	P

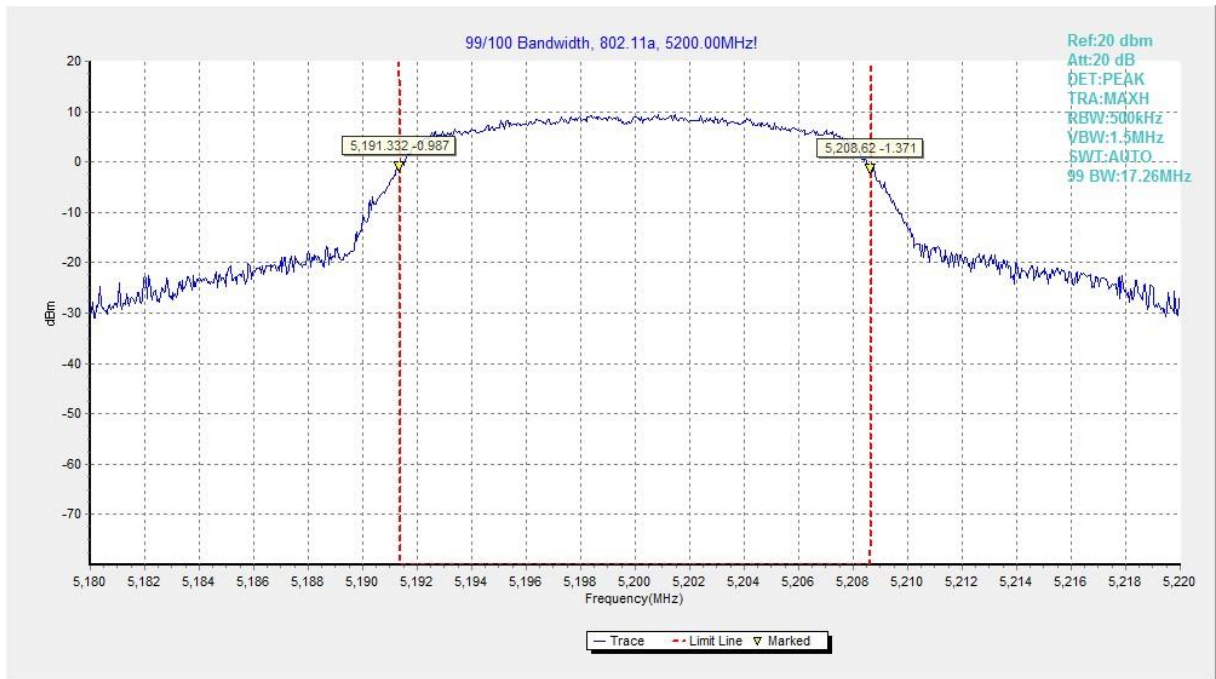
HT40	5230 MHz	Fig.90	36.18	P
802.11ac HT80	5210 MHz	Fig.91	75.77	P

**Conclusion: PASS**

**Test graphs as below:**



**Fig.78 99% Occupied bandwidth (802.11a, 5180MHz)**



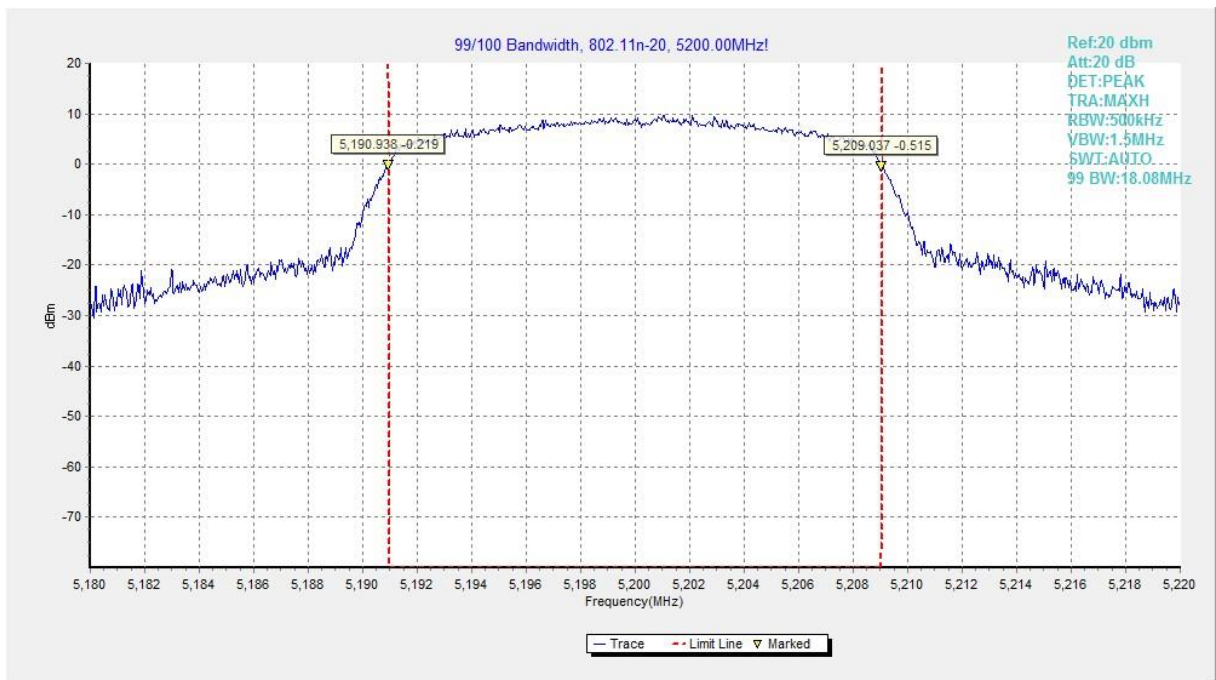
**Fig.79 99% Occupied bandwidth (802.11a, 5200MHz)**



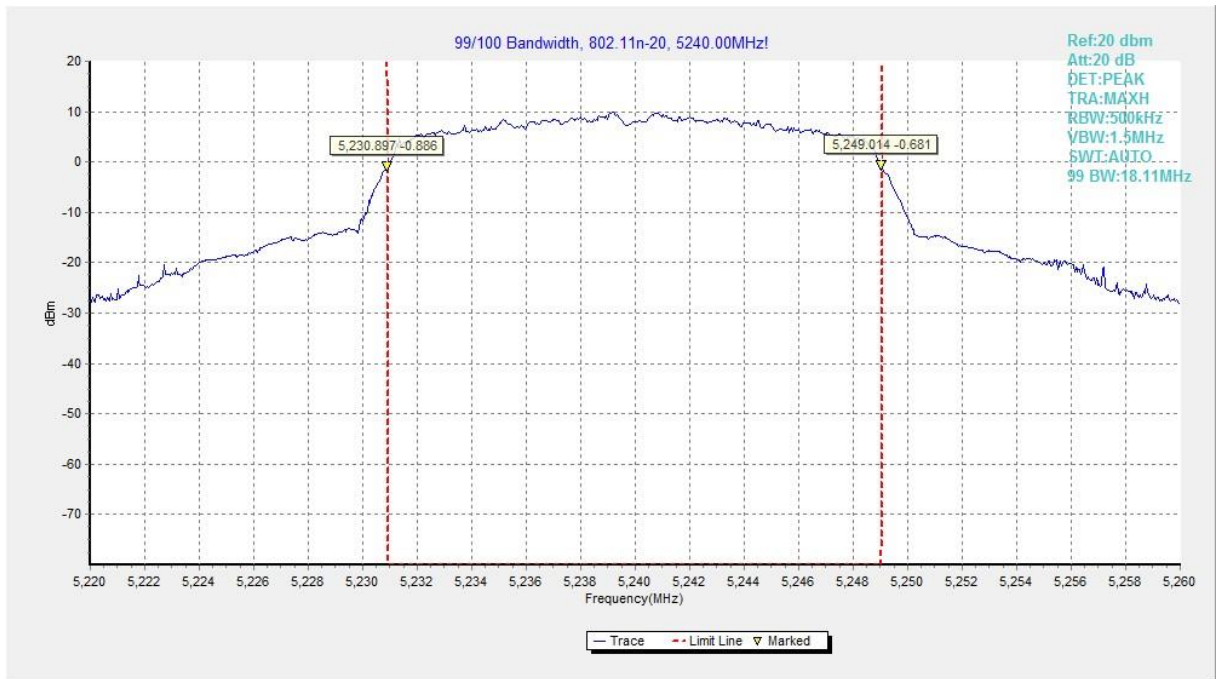
**Fig.80 99% Occupied bandwidth (802.11a, 5240MHz)**



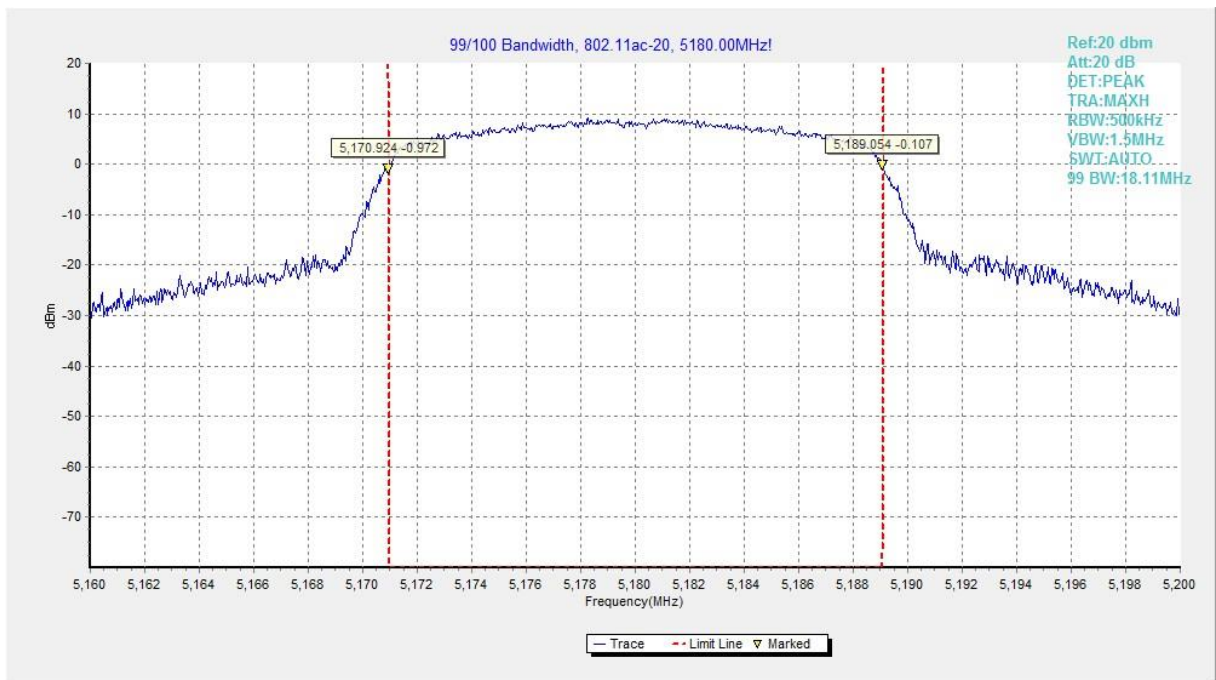
**Fig.81 99% Occupied bandwidth (802.11n-HT20, 5180MHz)**



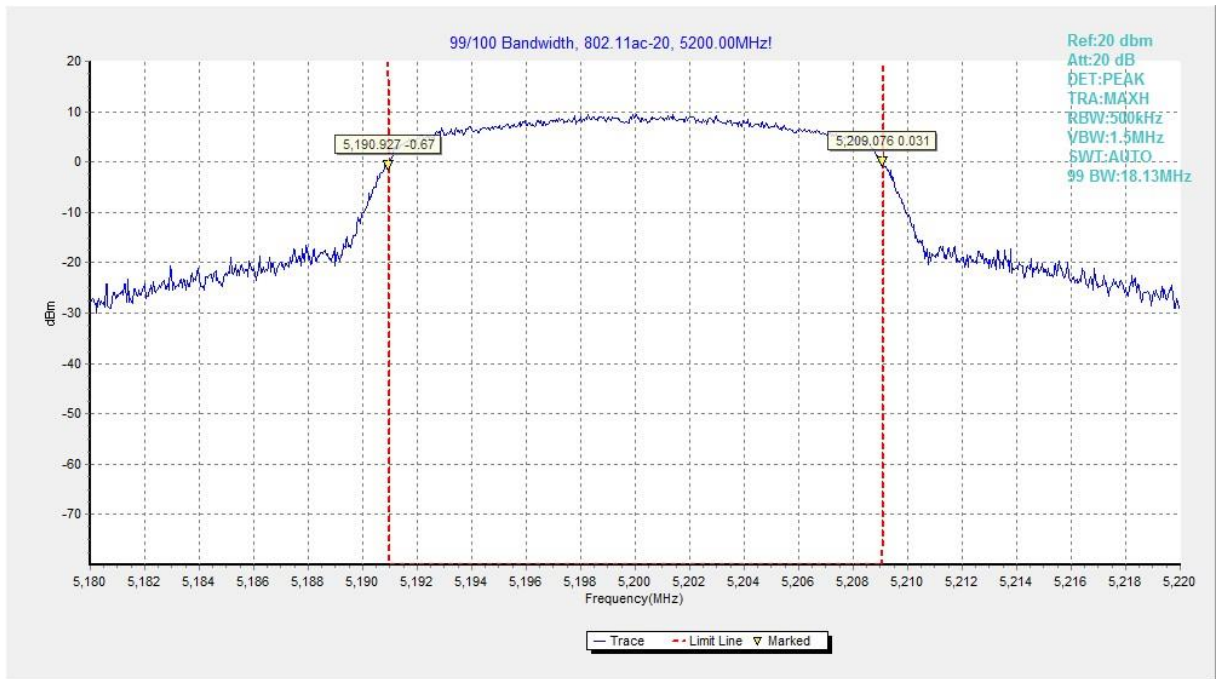
**Fig.82 99% Occupied bandwidth (802.11n-HT20, 5200MHz)**



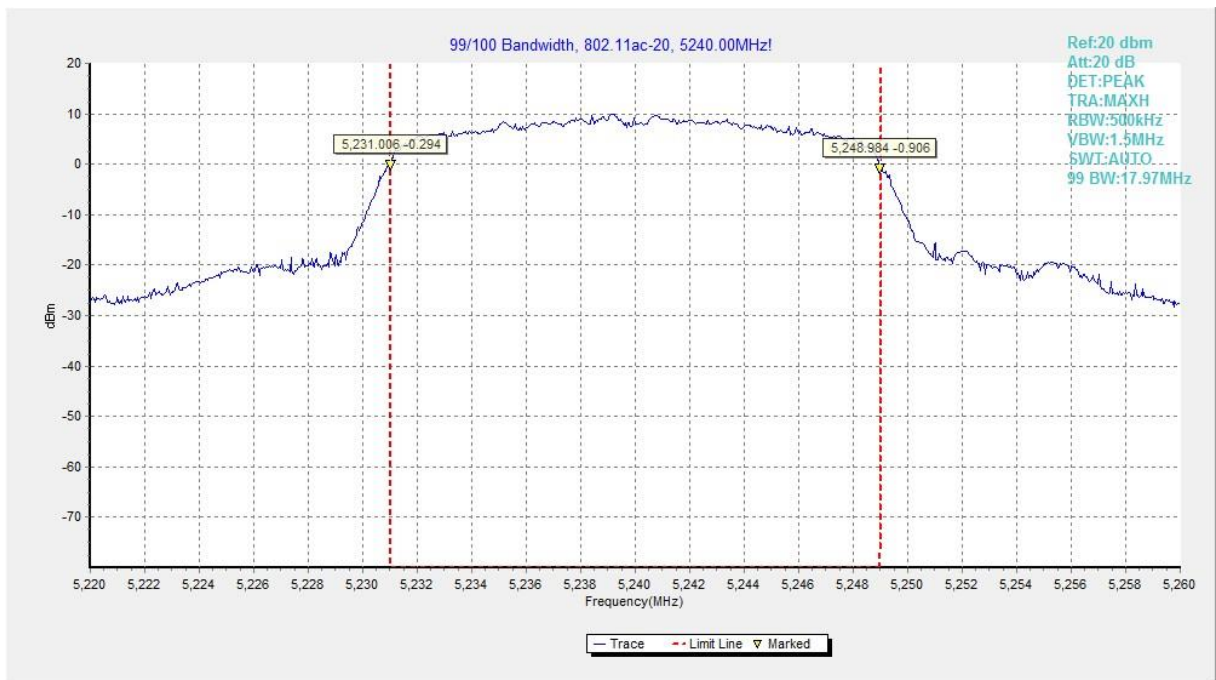
**Fig.83 99% Occupied bandwidth (802.11n-HT20, 5240MHz)**



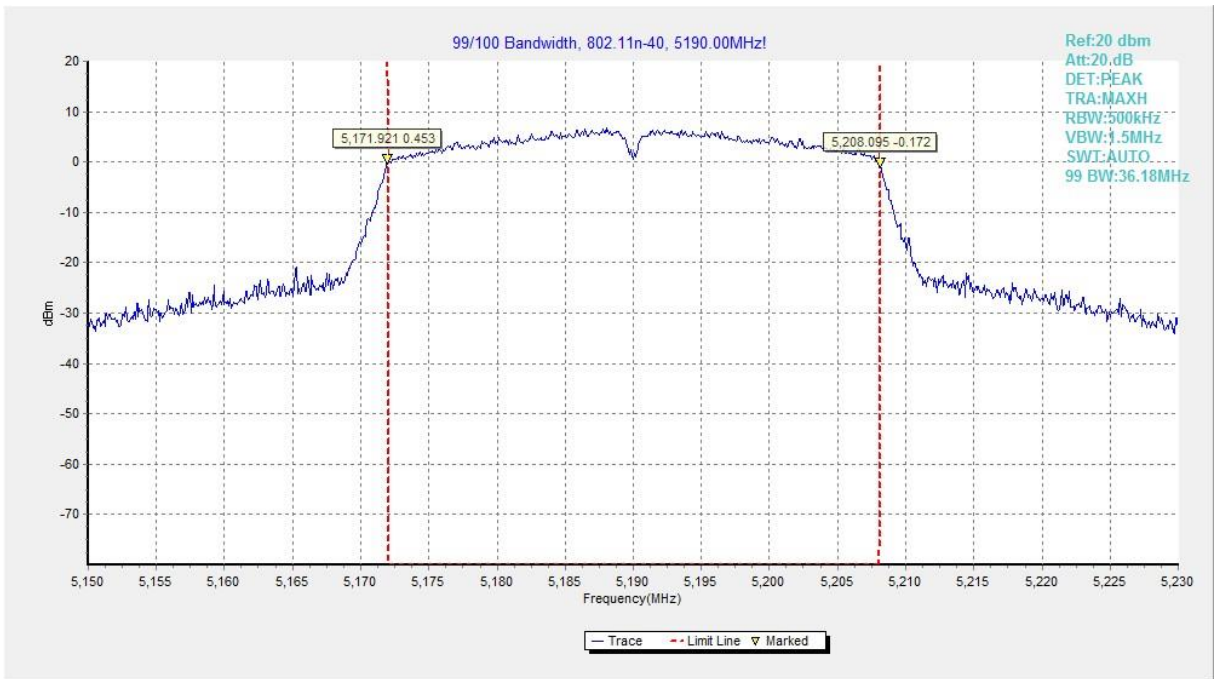
**Fig.84 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)**



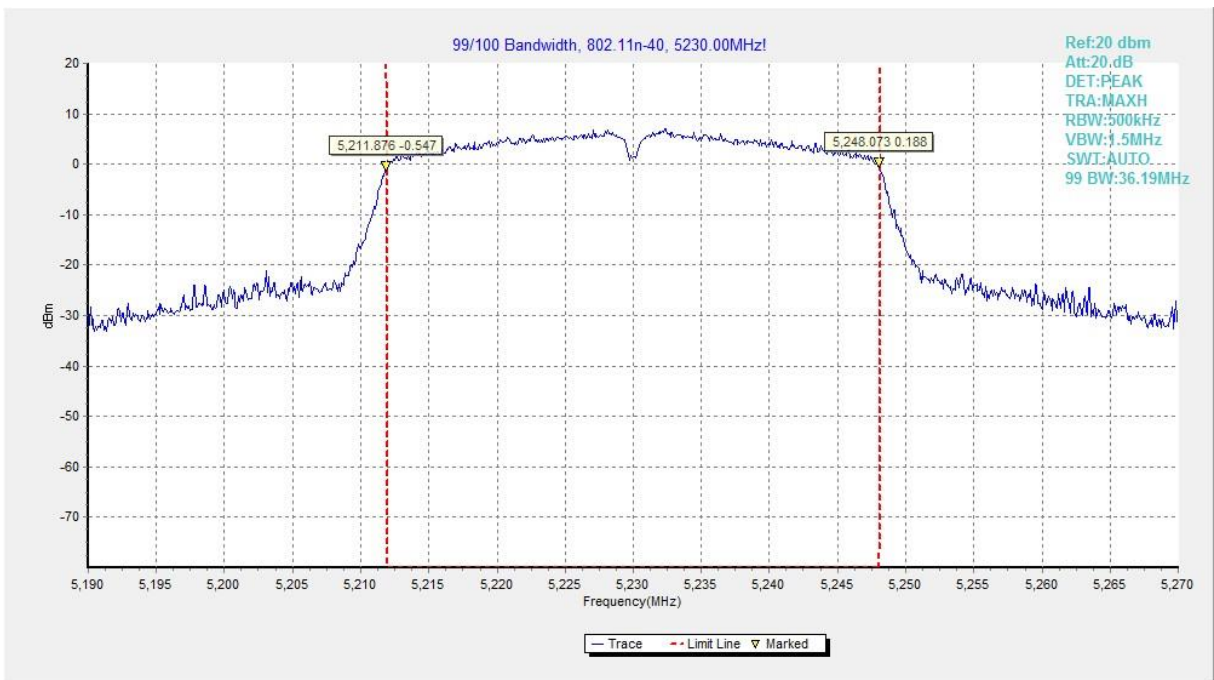
**Fig.85 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)**



**Fig.86 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)**

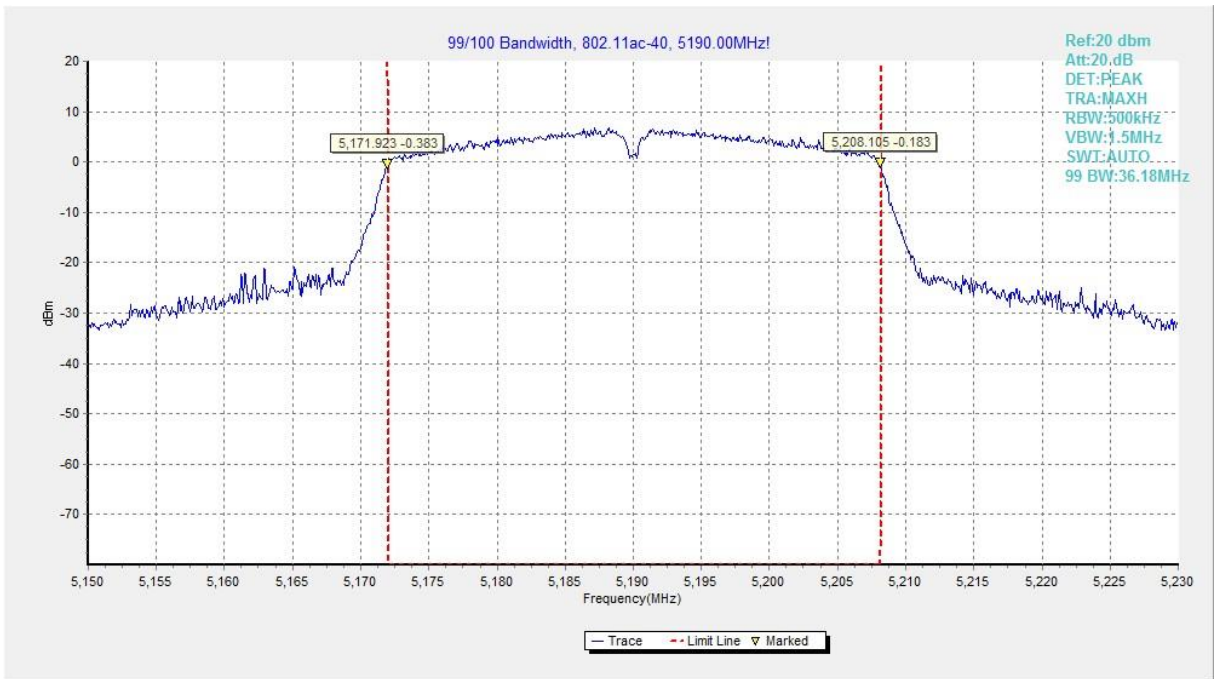


**Fig.87 99% Occupied bandwidth (802.11n-HT40, 5190MHz)**

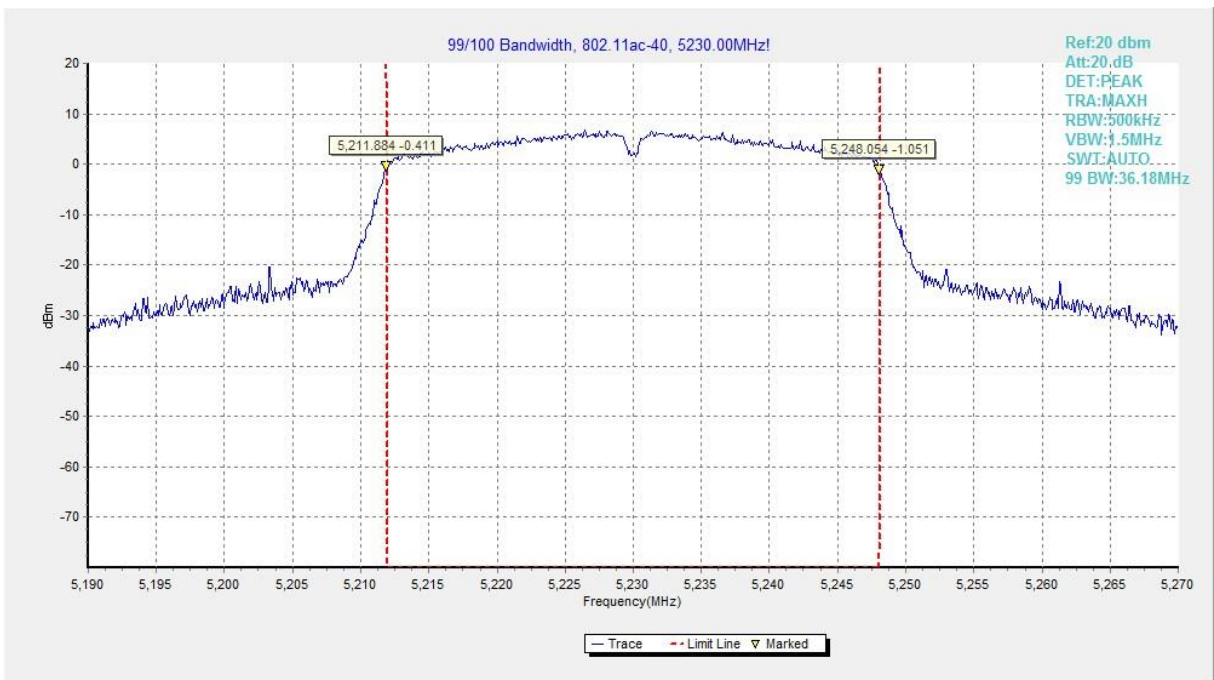


**Fig.88 99% Occupied bandwidth (802.11n-HT40, 5230MHz)**

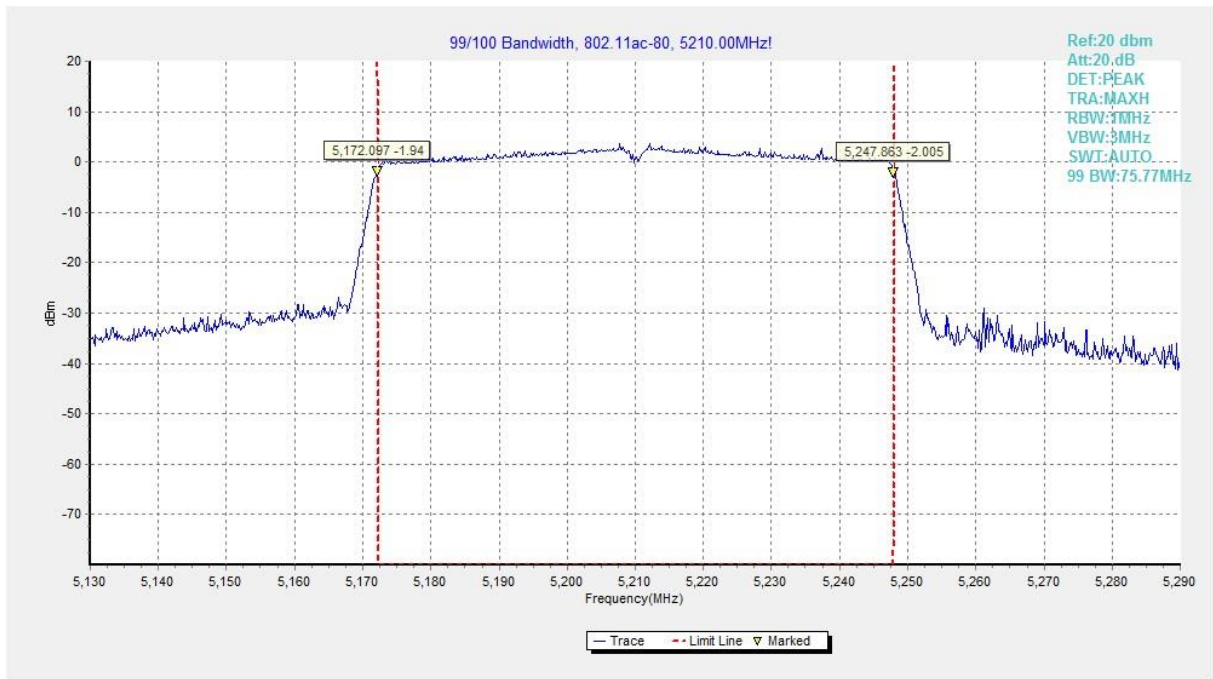




**Fig.89 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)**



**Fig.90 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)**






**Fig.91 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)**

## B.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

## ANNEX C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> <h3>Certificate of Accreditation to ISO/IEC 17025:2017</h3> <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 17025:2017. 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>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

\*\*\* END OF REPORT BODY \*\*\*