

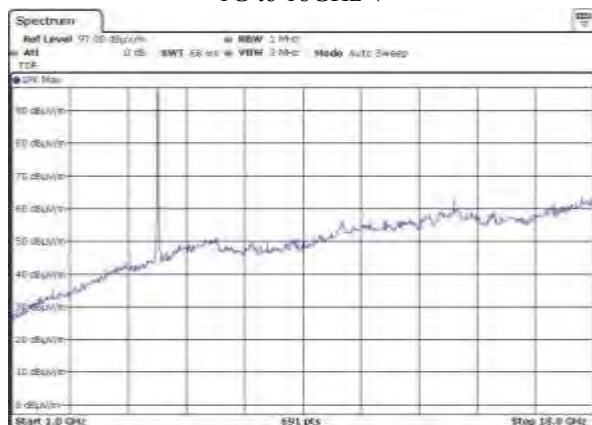
Test Report

Date : 2021-06-08
No. : HM20020027

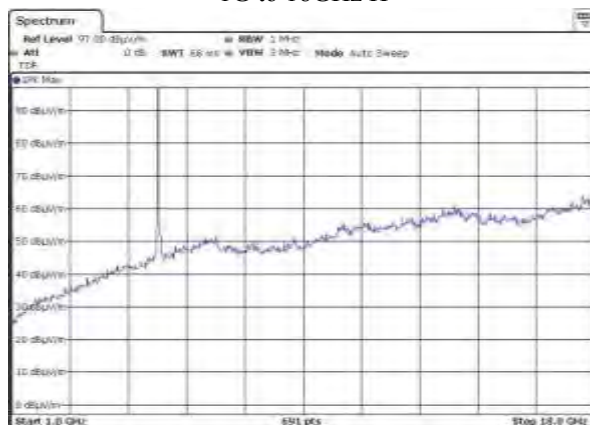
Page 399 of 514

Unwanted emission
802.11ac VHT40 5270 MHz (CH54)
Antenna option 2

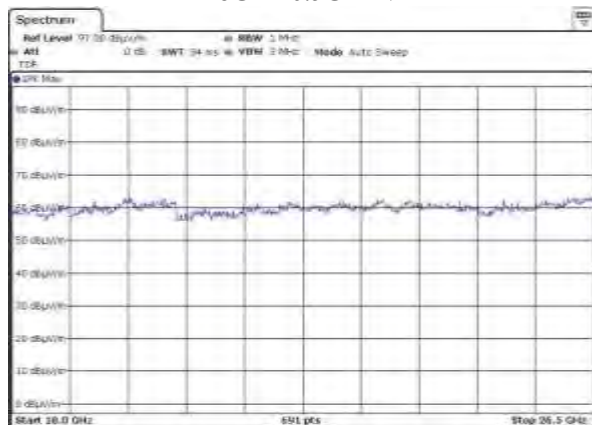
1G to 18GHz V



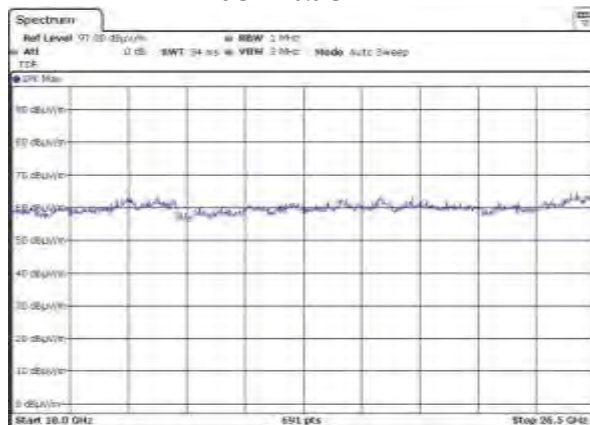
1G to 18GHz H



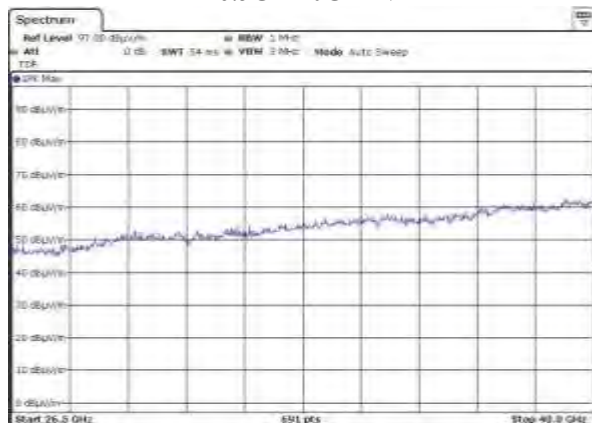
18G – 26.5GHz V



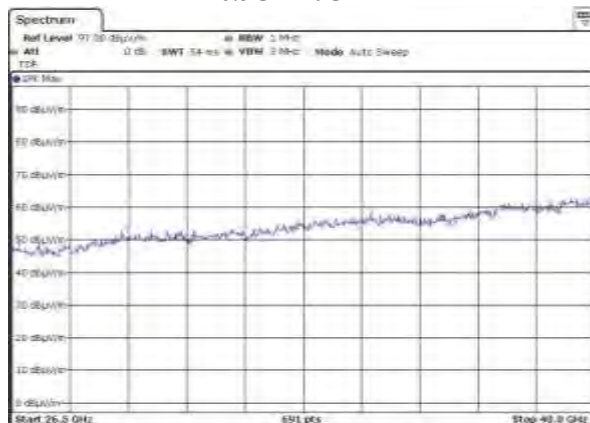
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





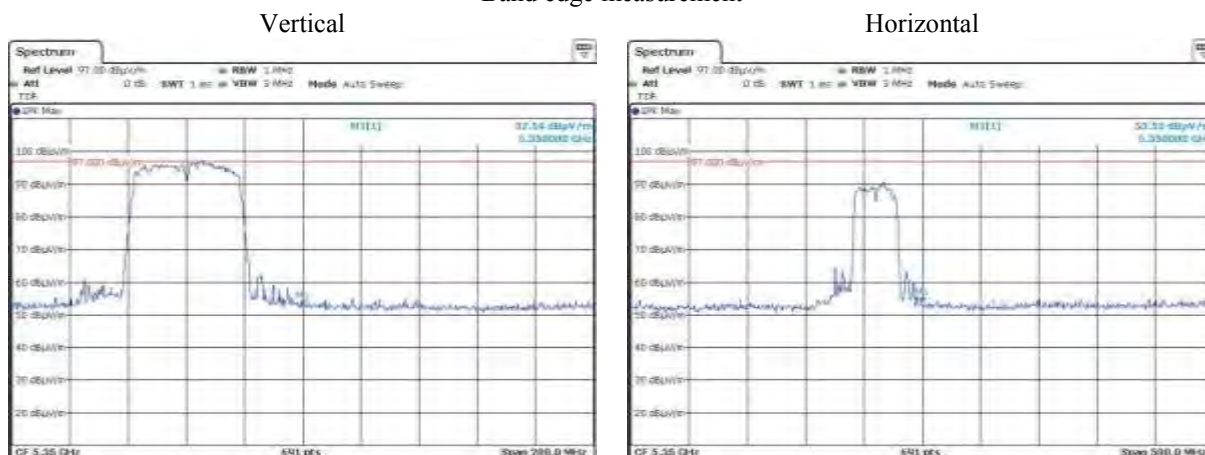
Test Report

Date : 2021-06-08
No. : HM20020027

Page 400 of 514

Unwanted emission
802.11ac VHT40 5310 MHz (CH62)
Antenna option 2

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	52.5	74.0	-21.5
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	H	PK	1	53.5	74.0	-20.5
5350.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

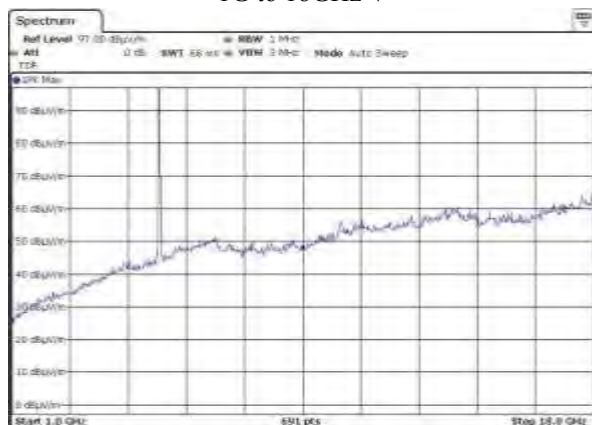
Test Report

Date : 2021-06-08
No. : HM20020027

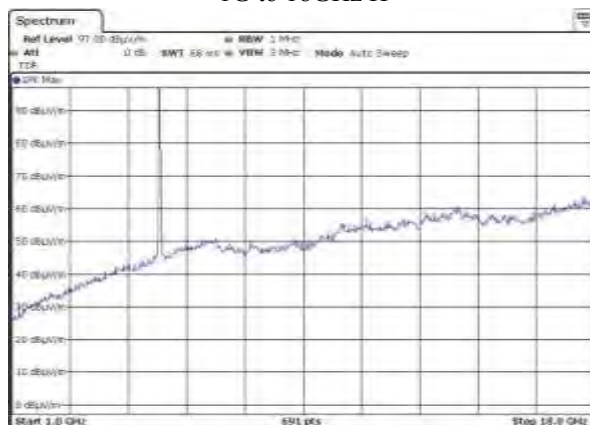
Page 401 of 514

Unwanted emission
802.11ac VHT40 5310 MHz (CH62)
Antenna option 2

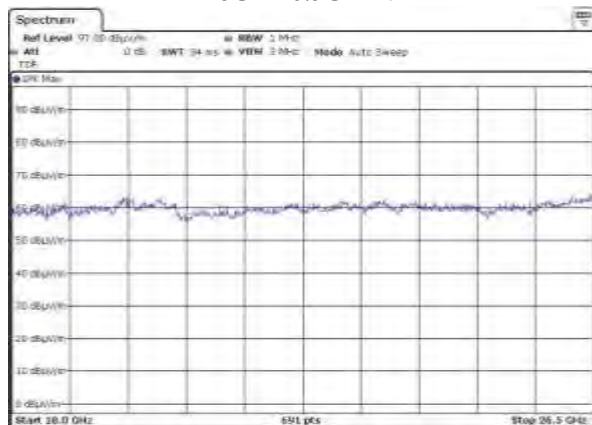
1G to 18GHz V



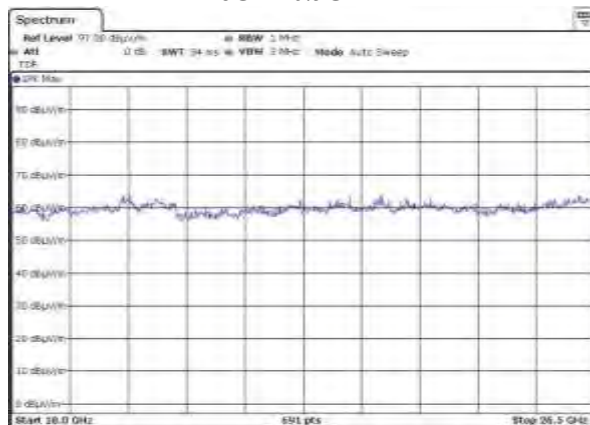
1G to 18GHz H



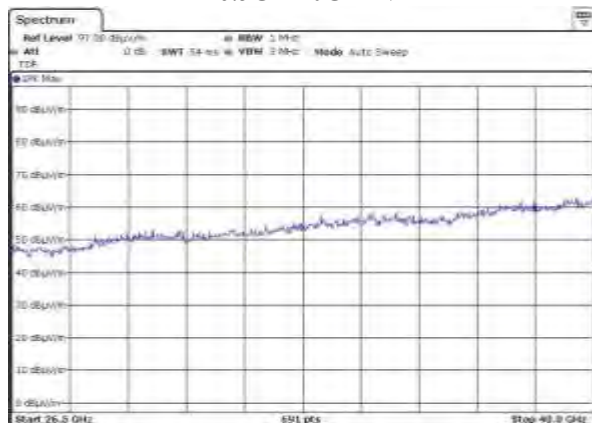
18G – 26.5GHz V



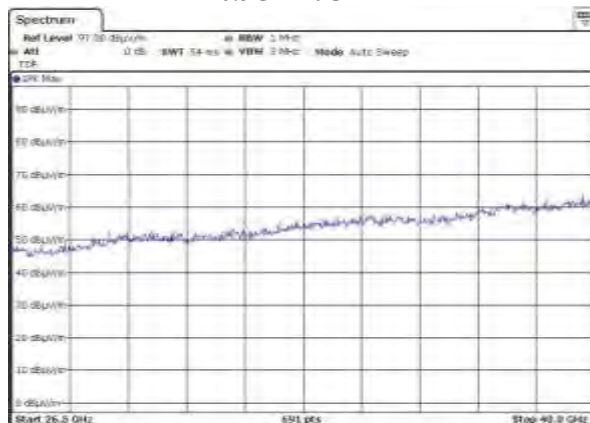
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



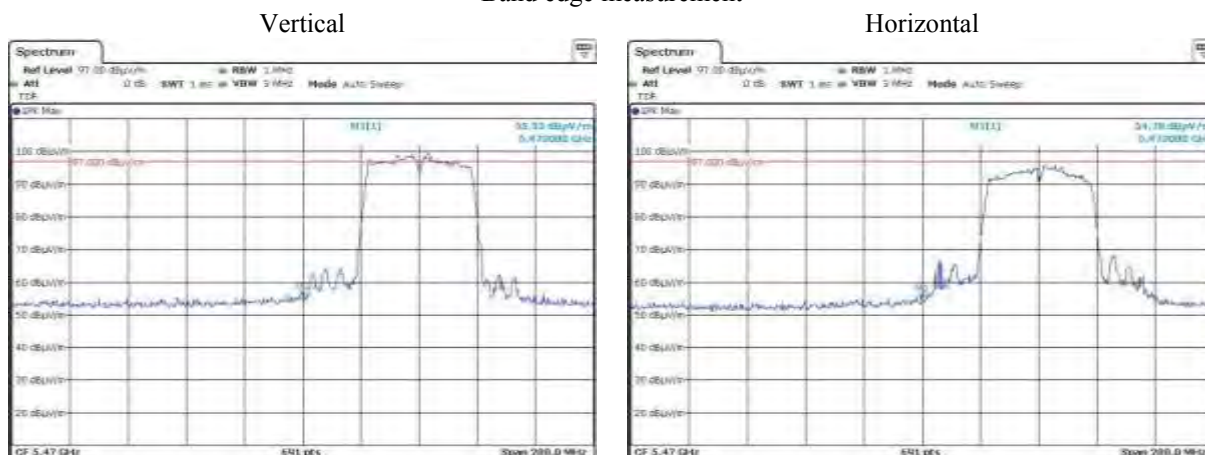
Test Report

Date : 2021-06-08
No. : HM20020027

Page 402 of 514

Unwanted emission
802.11ac VHT40 5510 MHz (CH102)
Antenna option 2

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	55.3	74.0	-18.7
5470.0	V	AV	1	45.7	54.0	-8.3
5470.0	H	PK	1	54.8	74.0	-19.2
5470.0	H	AV	1	44.6	54.0	-9.4

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

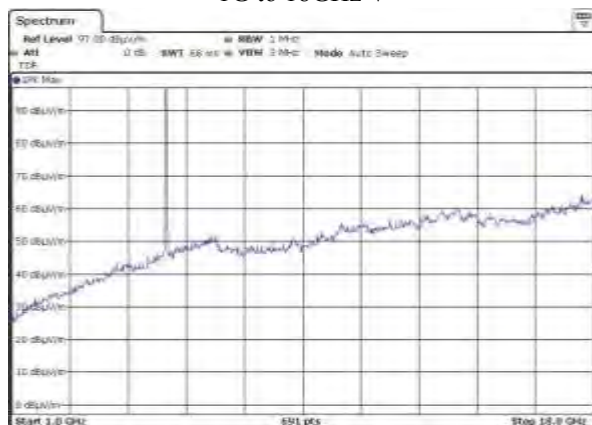
Test Report

Date : 2021-06-08
No. : HM20020027

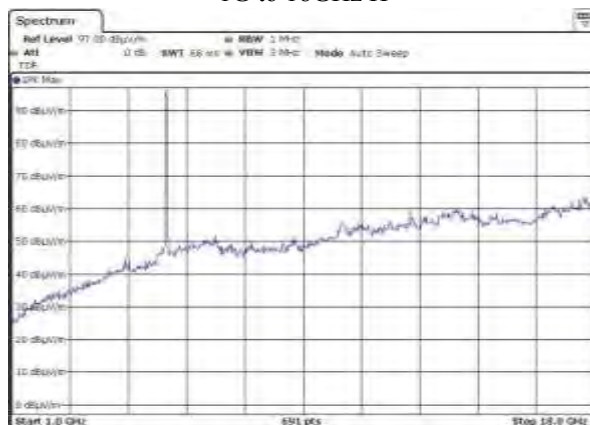
Page 403 of 514

Unwanted emission
802.11ac VHT40 5510 MHz (CH102)
Antenna option 2

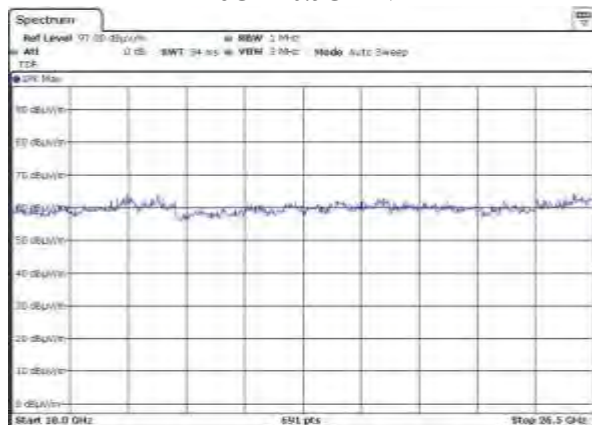
1G to 18GHz V



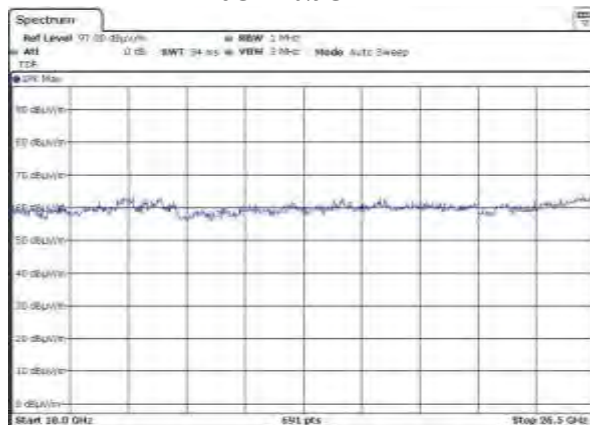
1G to 18GHz H



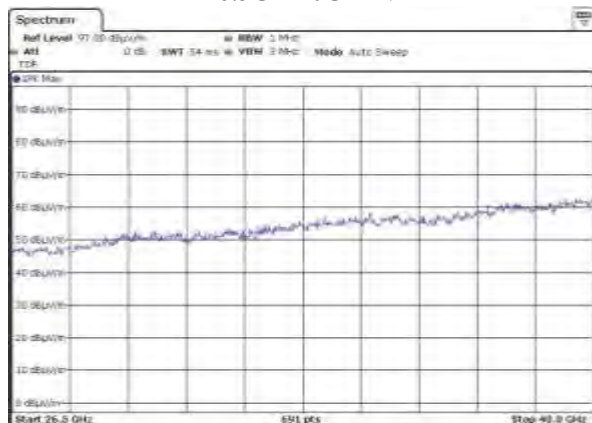
18G – 26.5GHz V



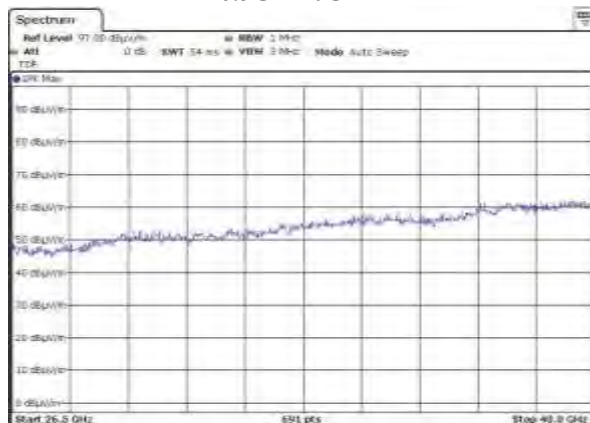
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



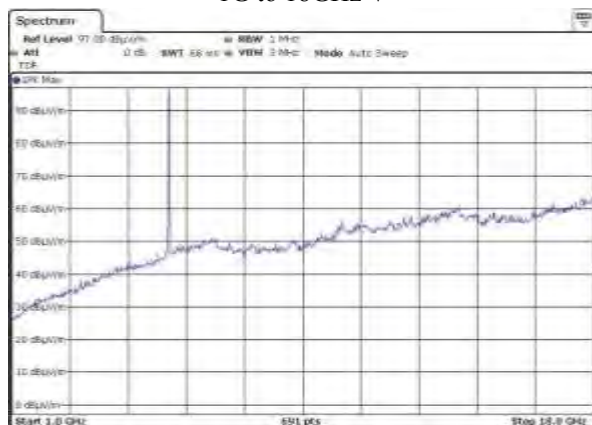
Test Report

Date : 2021-06-08
No. : HM20020027

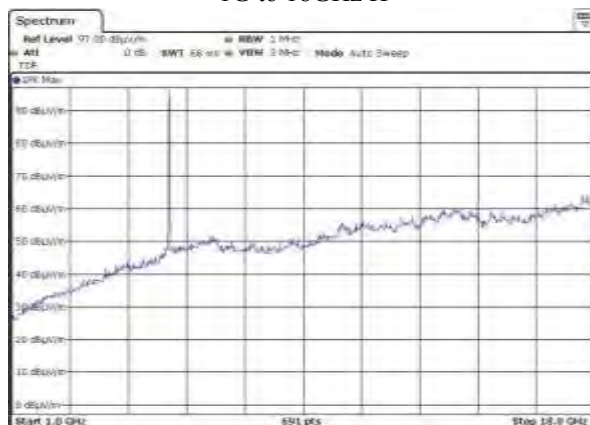
Page 404 of 514

Unwanted emission
802.11ac VHT40 5590 MHz (CH118)
Antenna option 2

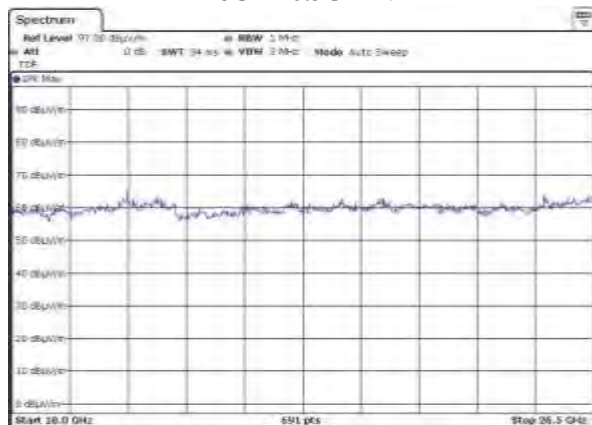
1G to 18GHz V



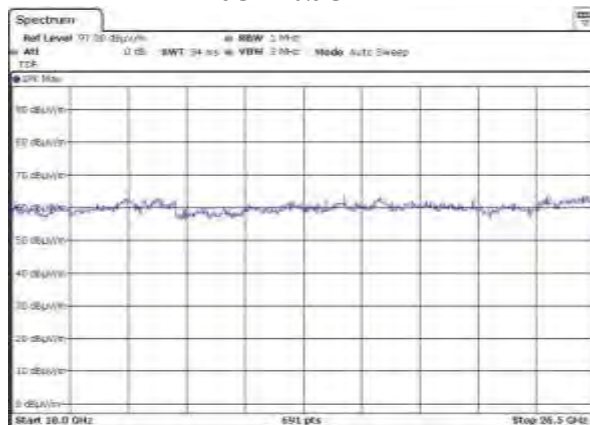
1G to 18GHz H



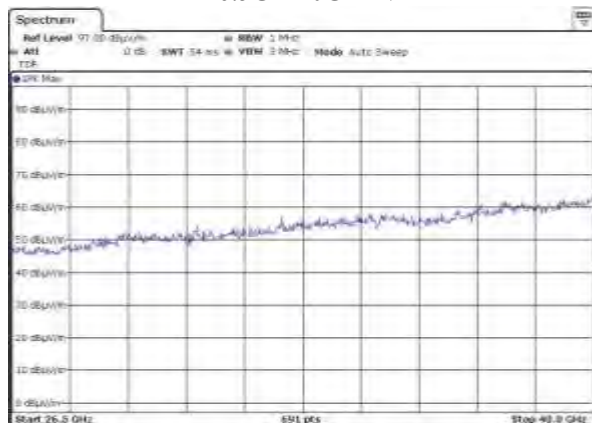
18G – 26.5GHz V



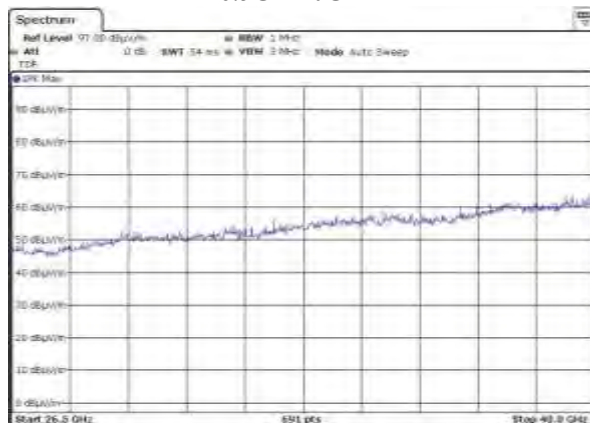
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

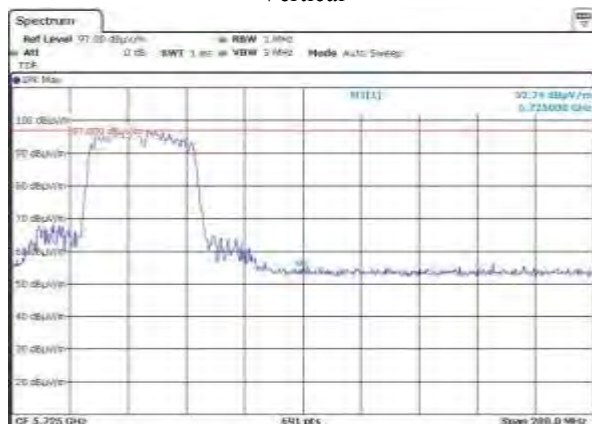
Date : 2021-06-08
No. : HM20020027

Page 405 of 514

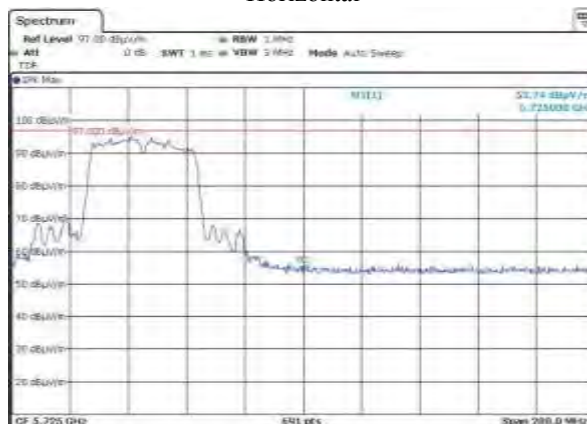
Unwanted emission
802.11ac VHT40 5670 MHz (CH134)
Antenna option 2

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	52.7	74.0	-18.7
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	53.7	74.0	-19.5
5725.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

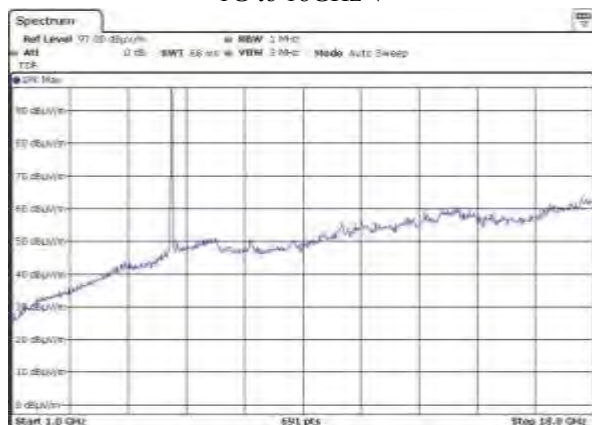
Test Report

Date : 2021-06-08
No. : HM20020027

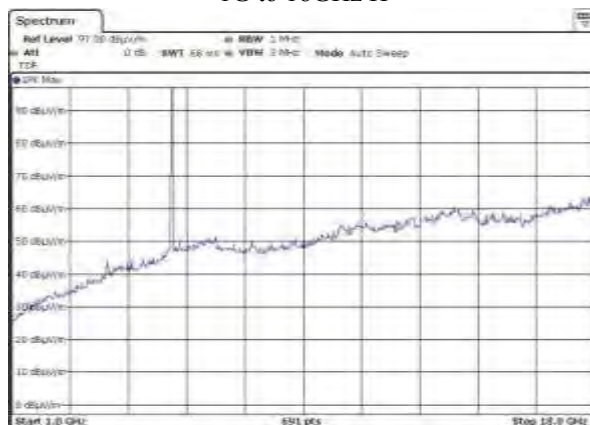
Page 406 of 514

Unwanted emission
802.11ac VHT40 5670 MHz (CH134)
Antenna option 2

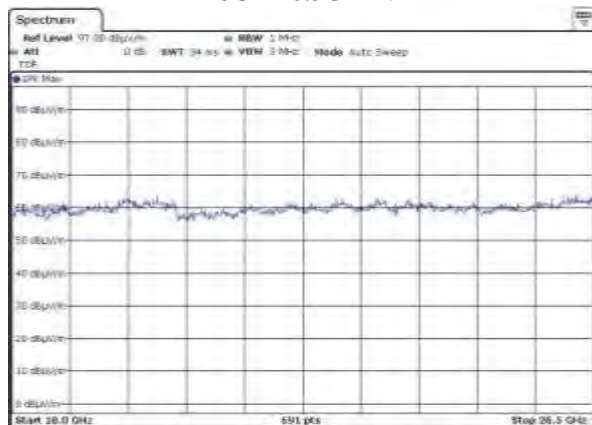
1G to 18GHz V



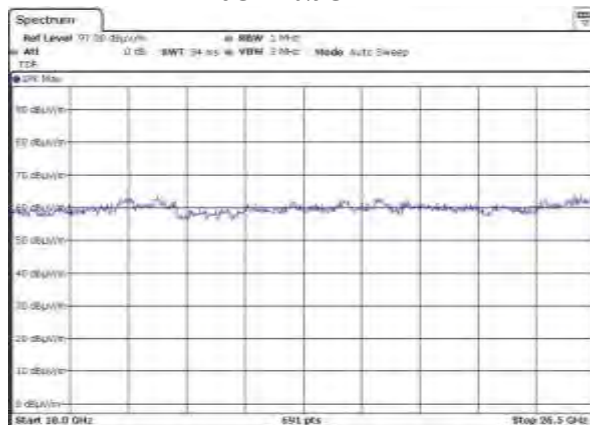
1G to 18GHz H



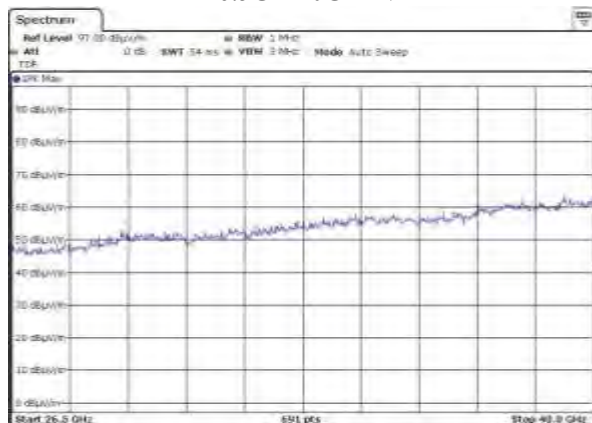
18G – 26.5GHz V



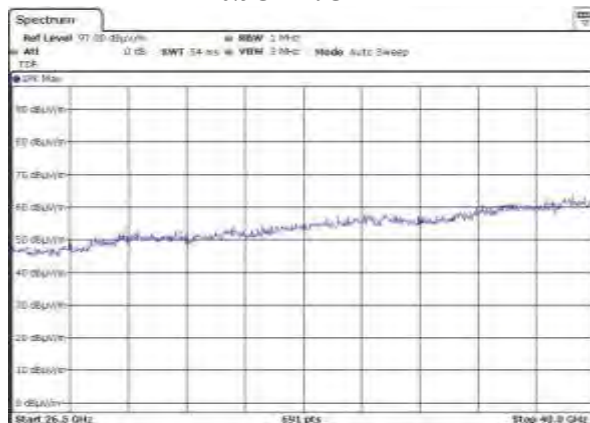
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

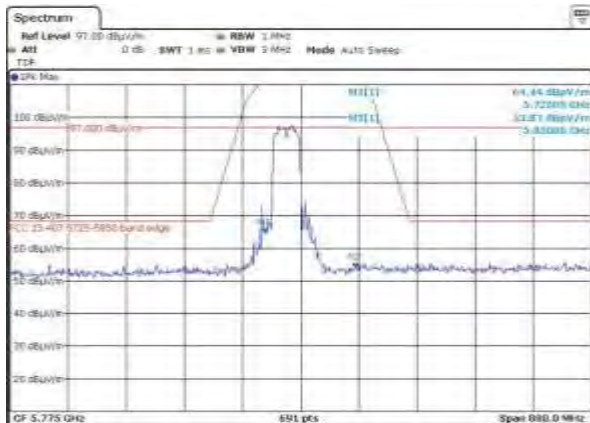
Date : 2021-06-08
No. : HM20020027

Page 407 of 514

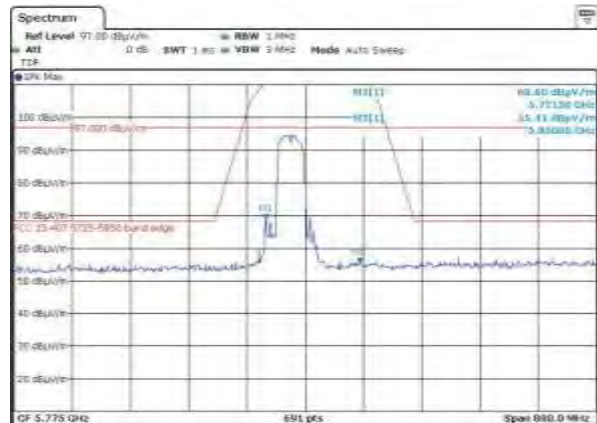
Unwanted emission
802.11ac VHT40 5755 MHz (CH151)
Antenna option 2

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

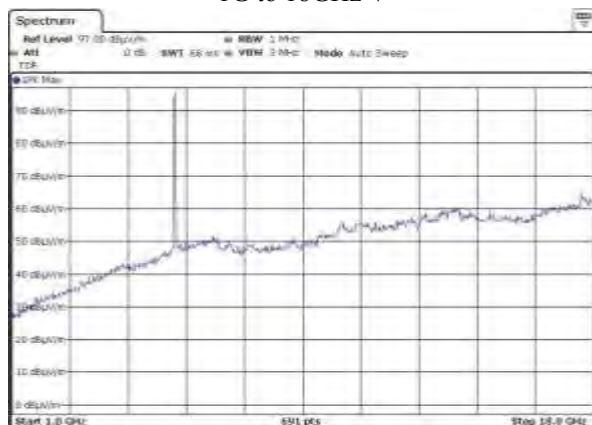
Test Report

Date : 2021-06-08
No. : HM20020027

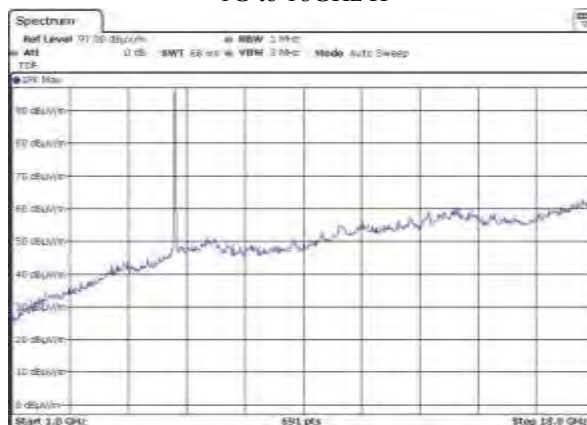
Page 408 of 514

Unwanted emission
802.11ac VHT40 5755 MHz (CH151)
Antenna option 2

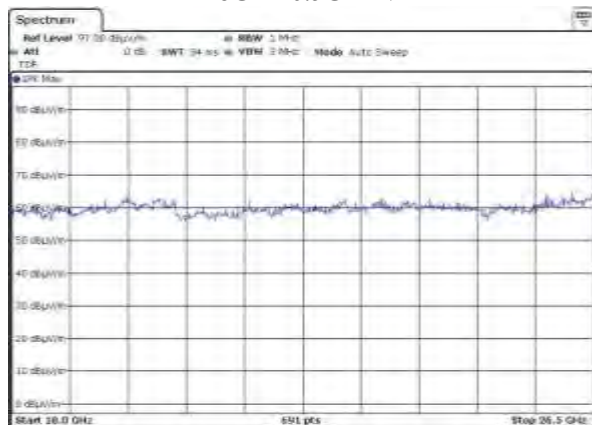
1G to 18GHz V



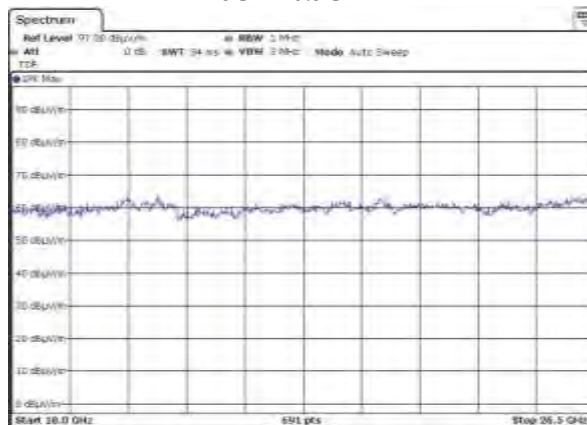
1G to 18GHz H



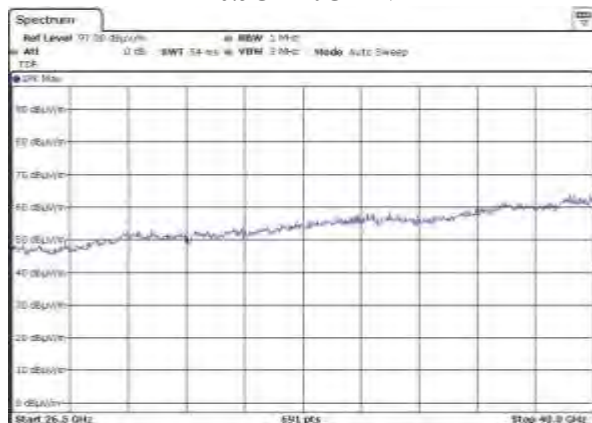
18G – 26.5GHz V



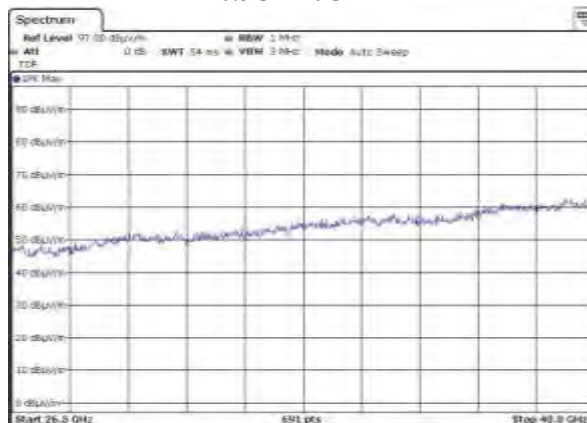
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

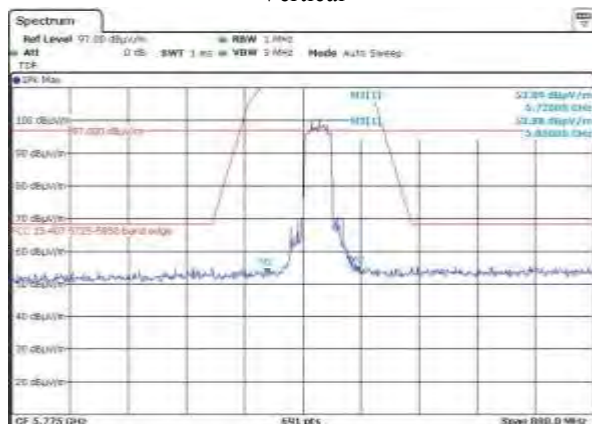
Date : 2021-06-08
No. : HM20020027

Page 409 of 514

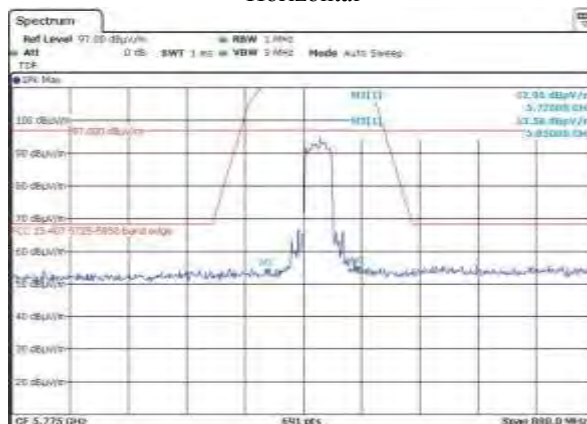
Unwanted emission
802.11ac VHT40 5795 MHz (CH159)
Antenna option 2

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

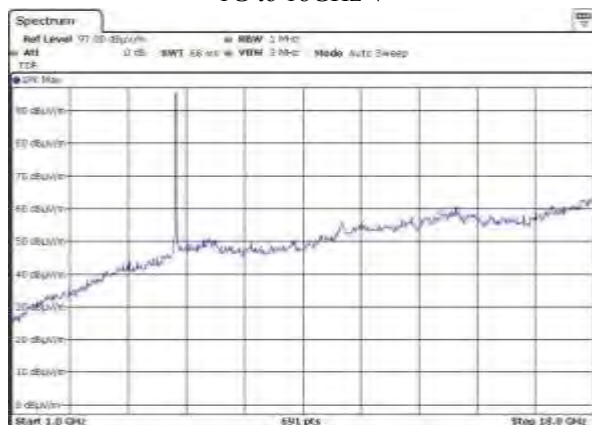
Test Report

Date : 2021-06-08
No. : HM20020027

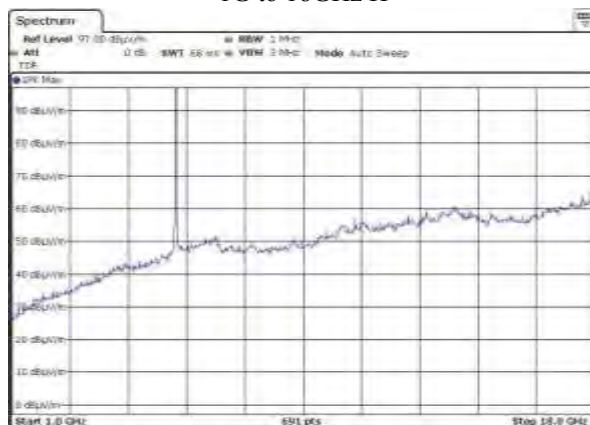
Page 410 of 514

Unwanted emission
802.11ac VHT40 5795 MHz (CH159)
Antenna option 2

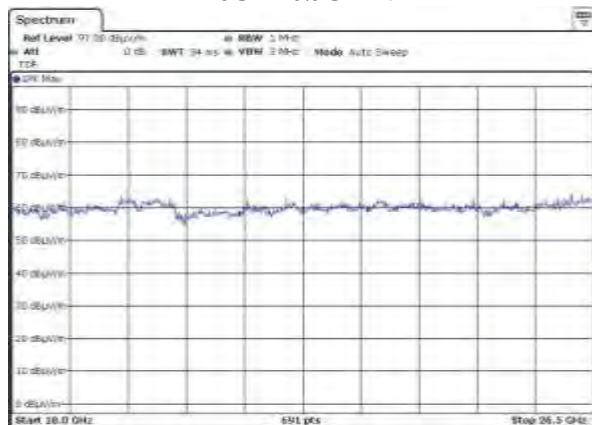
1G to 18GHz V



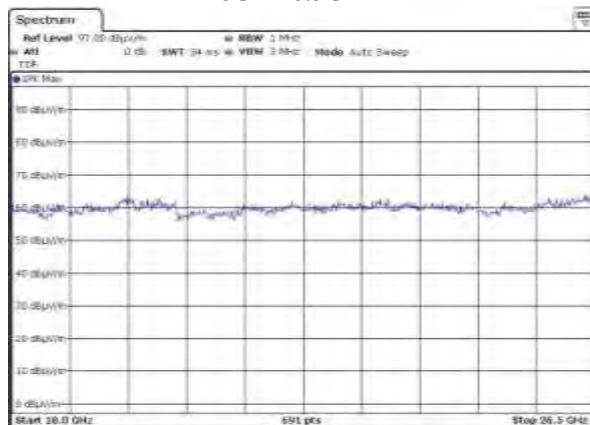
1G to 18GHz H



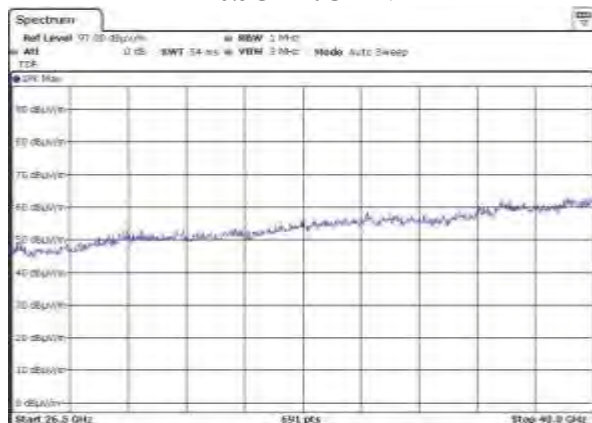
18G – 26.5GHz V



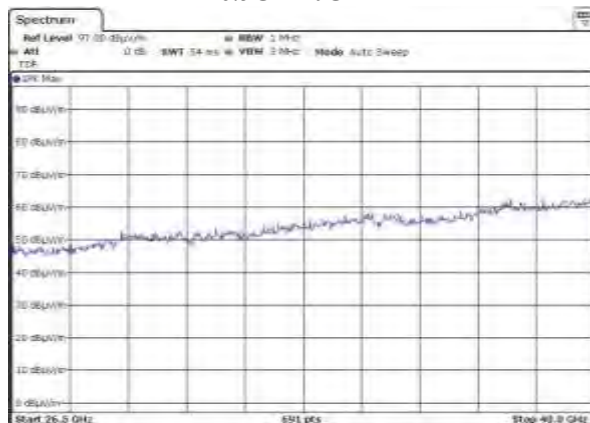
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

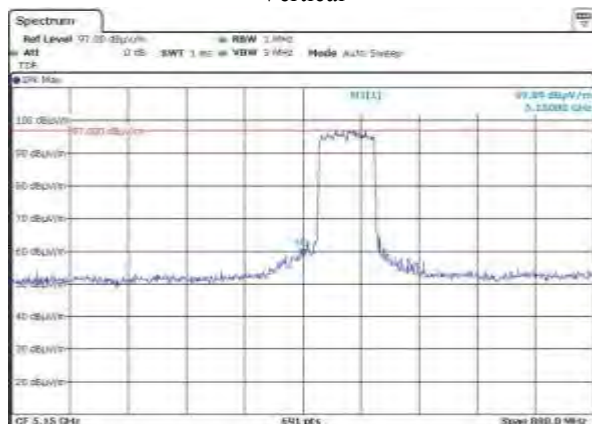
Date : 2021-06-08
No. : HM20020027

Page 411 of 514

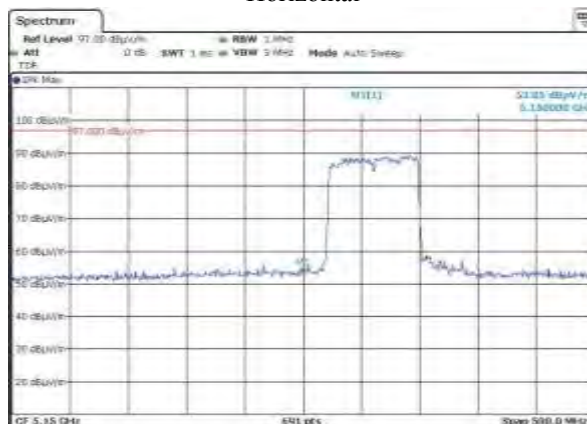
Unwanted emission
802.11ac VHT80 5210 MHz (CH42)
Antenna option 2

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5150.0	V	PK	1	59.1	74.0	-14.9
5150.0	V	AV	1	50.5	54.0	-3.5
5150.0	H	PK	1	53.1	74.0	-20.9
5150.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

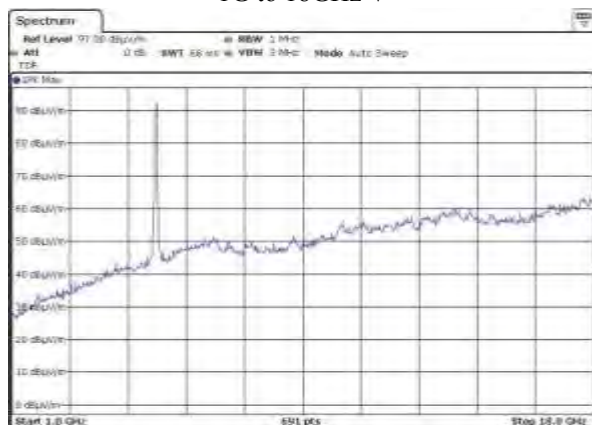
Test Report

Date : 2021-06-08
No. : HM20020027

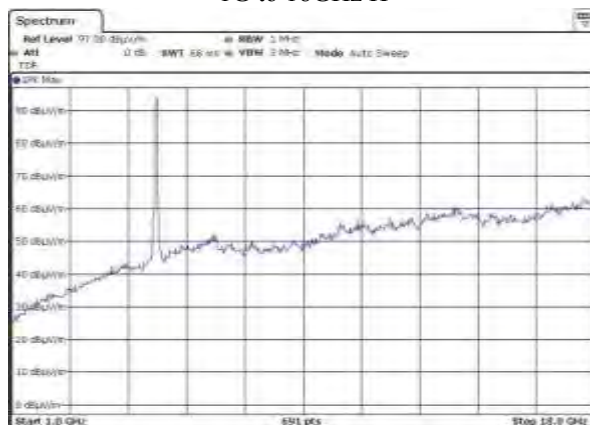
Page 412 of 514

Unwanted emission
802.11ac VHT80 5210 MHz (CH42)
Antenna option 2

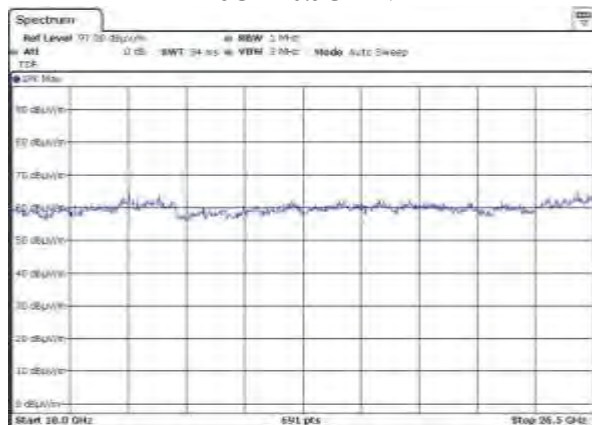
1G to 18GHz V



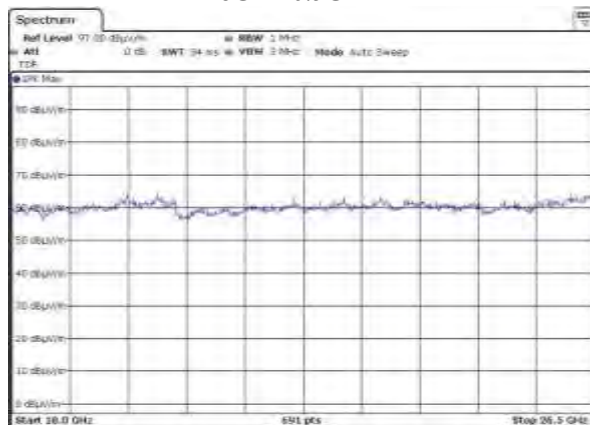
1G to 18GHz H



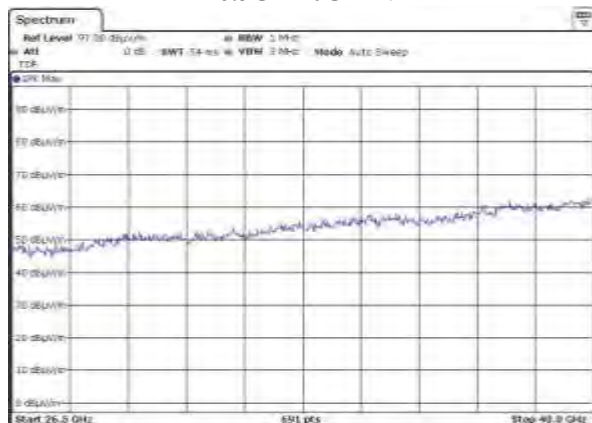
18G – 26.5GHz V



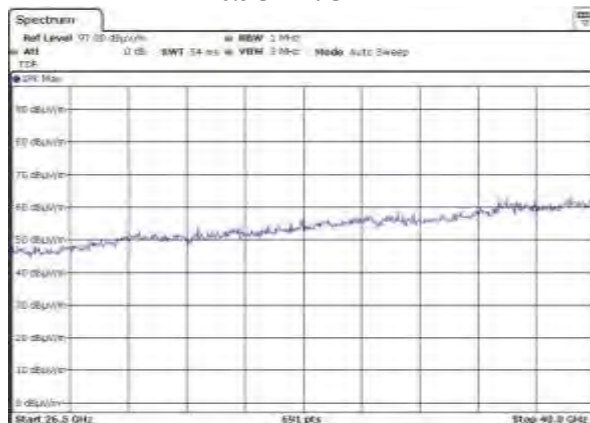
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



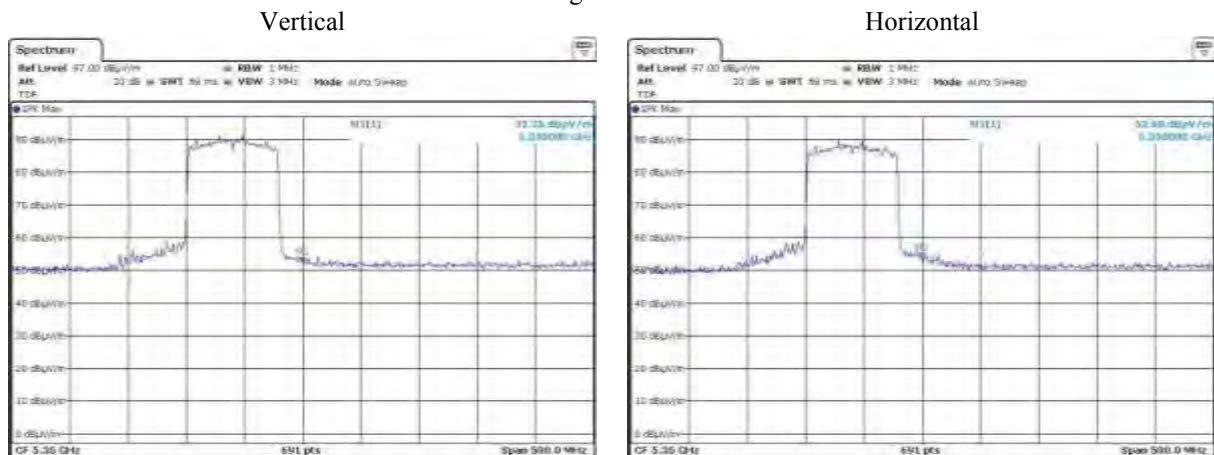
Test Report

Date : 2021-06-08
No. : HM20020027

Page 413 of 514

Unwanted emission
802.11ac VHT80 5290 MHz (CH58)
Antenna option 2

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	52.3	74.0	-21.7
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	H	PK	1	53.6	74.0	-20.4
5350.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

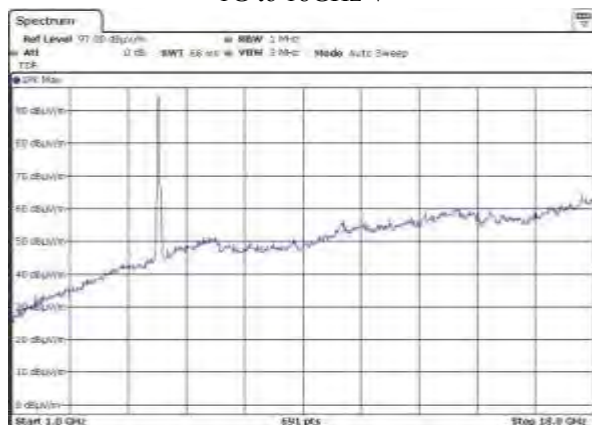
Test Report

Date : 2021-06-08
No. : HM20020027

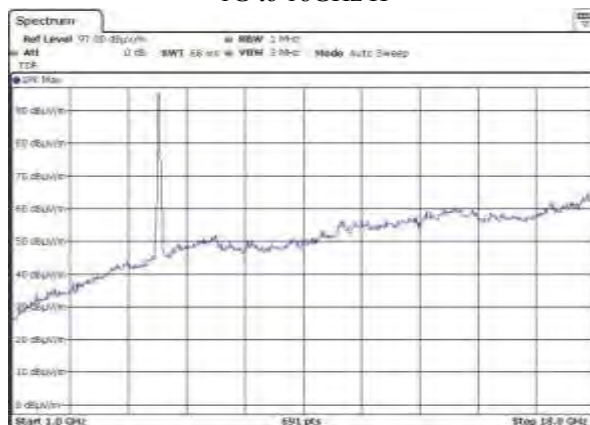
Page 414 of 514

Unwanted emission
802.11ac VHT80 5290 MHz (CH58)
Antenna option 2

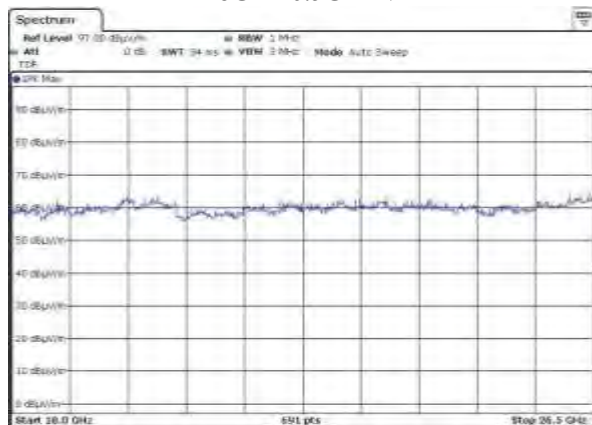
1G to 18GHz V



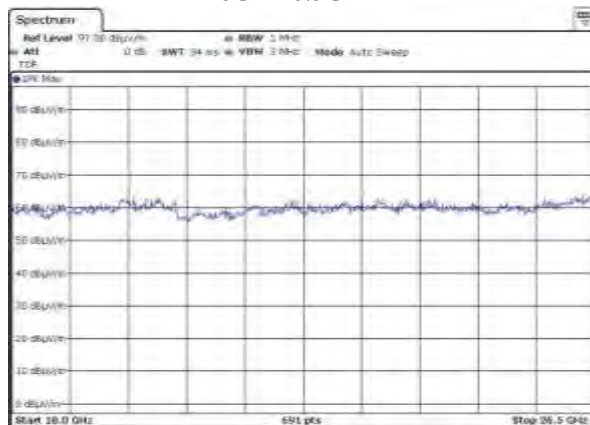
1G to 18GHz H



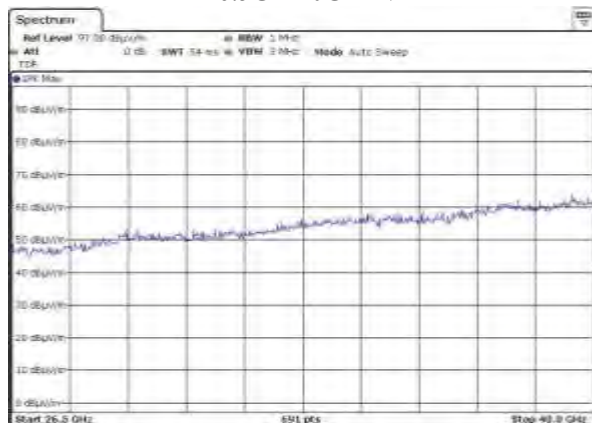
18G – 26.5GHz V



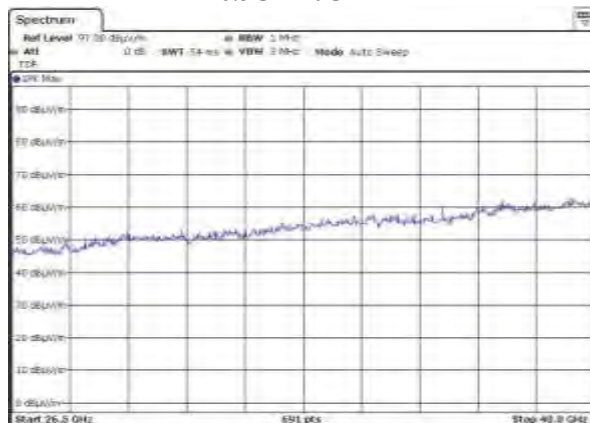
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

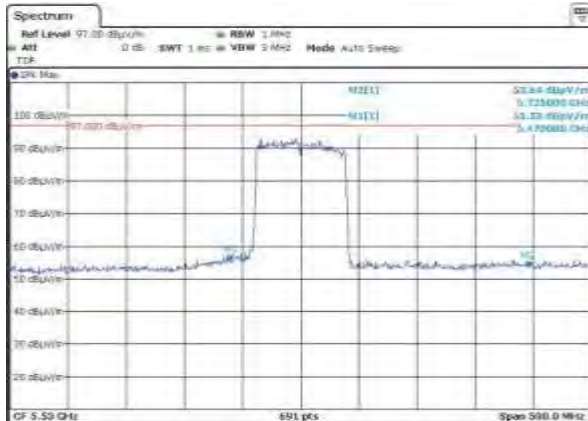
Date : 2021-06-08
No. : HM20020027

Page 415 of 514

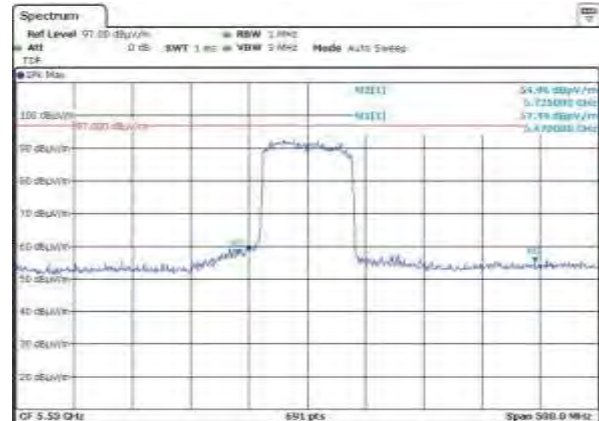
Unwanted emission
802.11ac VHT80 5530 MHz (CH106)
Antenna option 2

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	55.5	74.0	-18.5
5470.0	V	AV	1	45.0	54.0	-9.0
5470.0	H	PK	1	57.5	74.0	-16.5
5470.0	H	AV	1	48.1	54.0	-5.9
5725.0	V	PK	1	53.6	74.0	-20.4
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	55.0	74.0	-19.0
5725.0	H	AV	1	44.9	54.0	-9.1

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

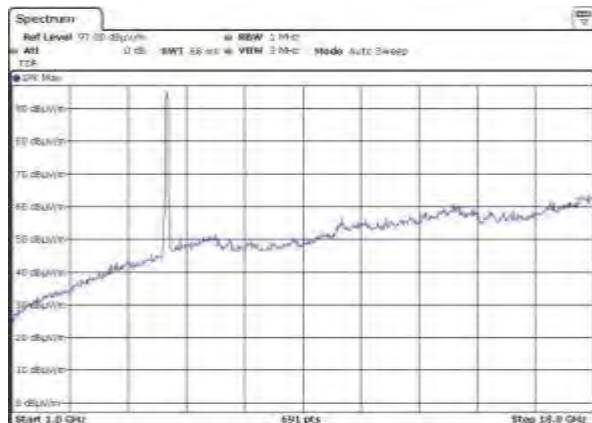
Test Report

Date : 2021-06-08
No. : HM20020027

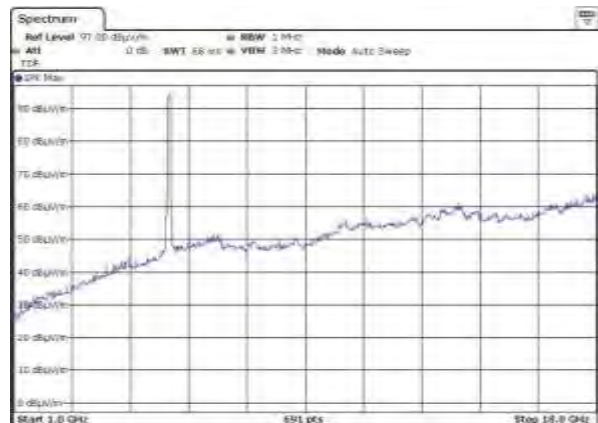
Page 416 of 514

Unwanted emission
802.11ac VHT80 5530 MHz (CH106)
Antenna option 2

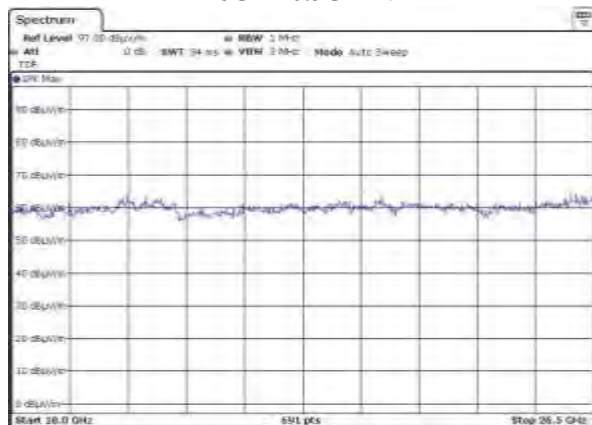
1G to 18GHz V



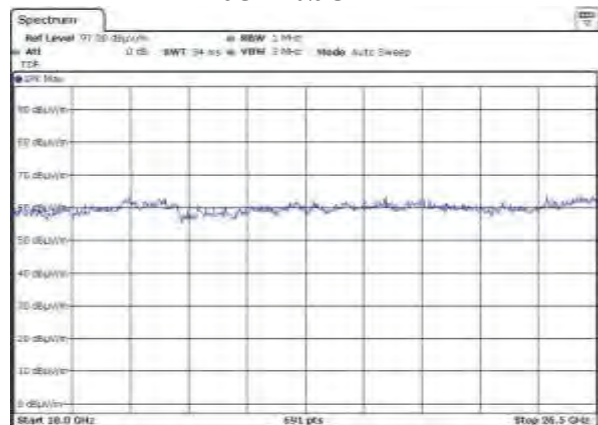
1G to 18GHz H



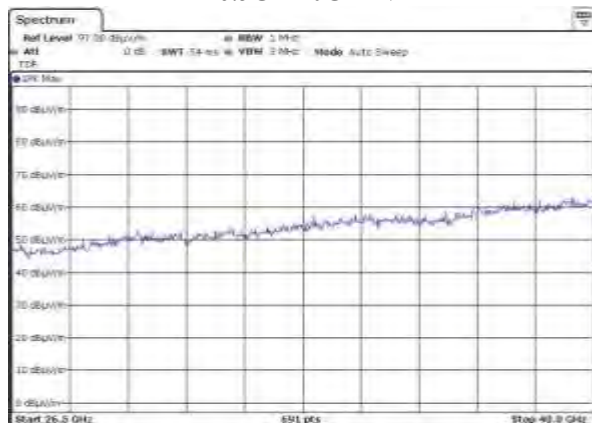
18G – 26.5GHz V



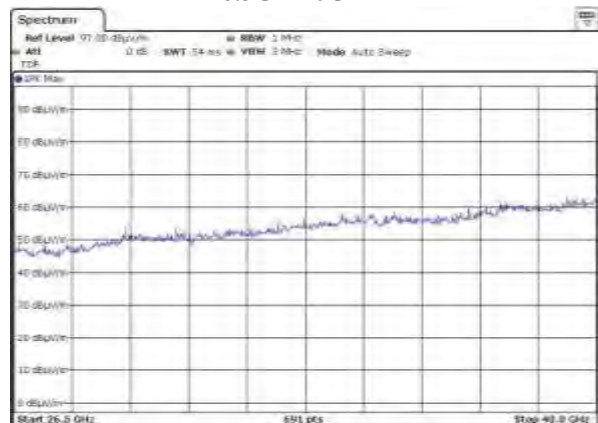
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

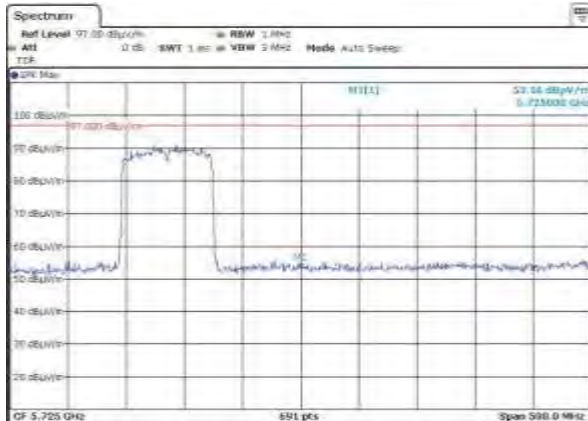
Date : 2021-06-08
No. : HM20020027

Page 417 of 514

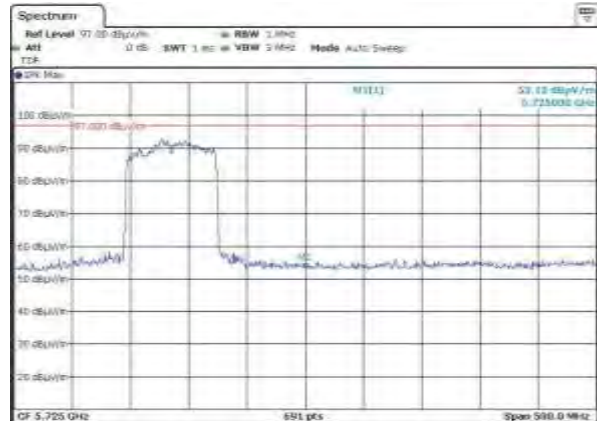
Unwanted emission
802.11ac VHT80 5610 MHz (CH122)
Antenna option 2

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	53.2	74.0	-20.8
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	53.1	74.0	-20.9
5725.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

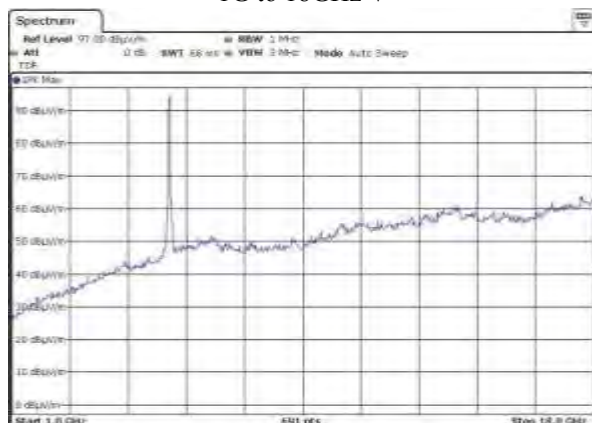
Test Report

Date : 2021-06-08
No. : HM20020027

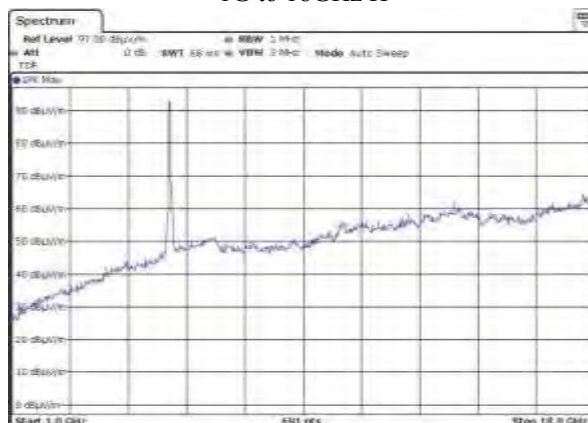
Page 418 of 514

Unwanted emission
802.11ac VHT80 5610 MHz (CH122)
Antenna option 2

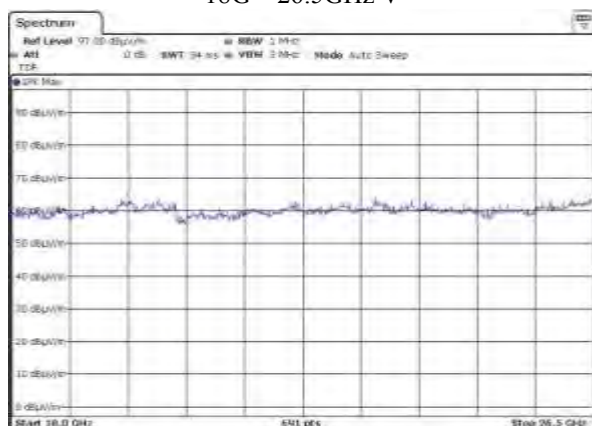
1G to 18GHz V



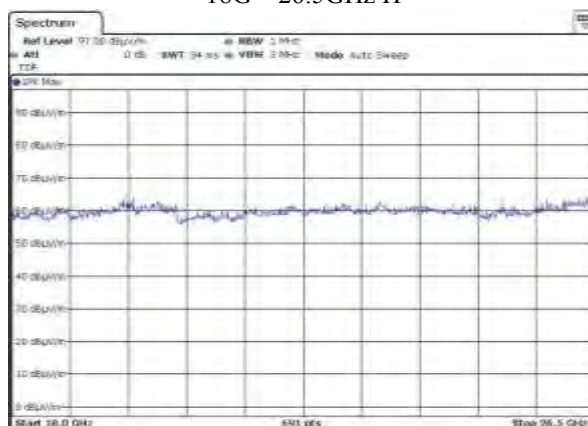
1G to 18GHz H



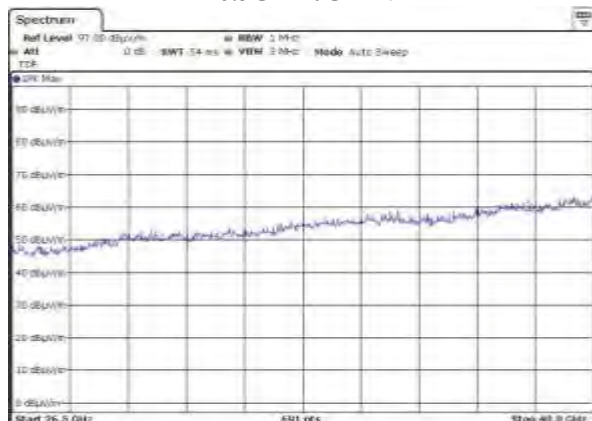
18G – 26.5GHz V



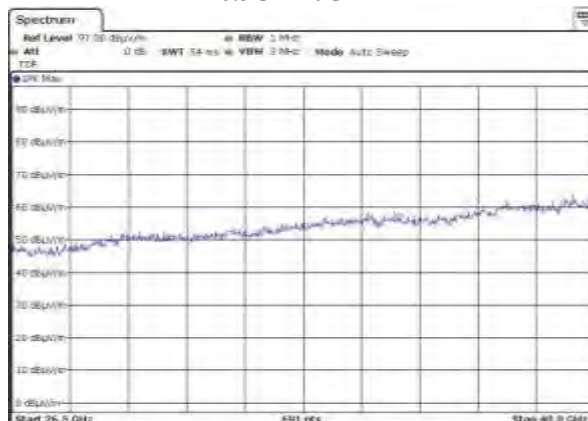
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

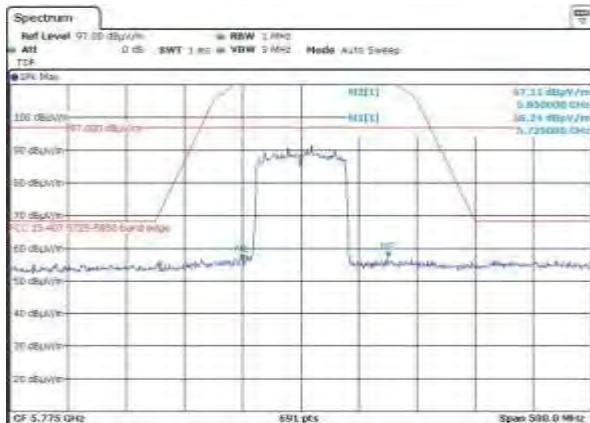
Date : 2021-06-08
No. : HM20020027

Page 419 of 514

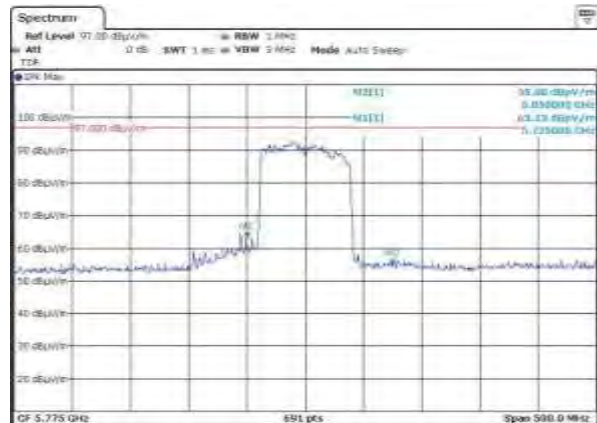
Unwanted emission
802.11ac VHT80 5775 MHz (CH155)
Antenna option 2

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

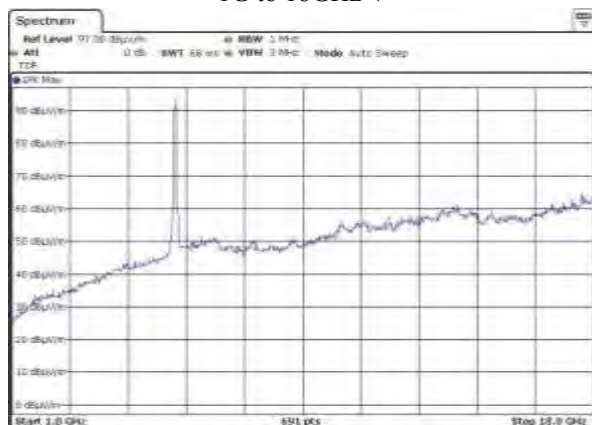
Test Report

Date : 2021-06-08
No. : HM20020027

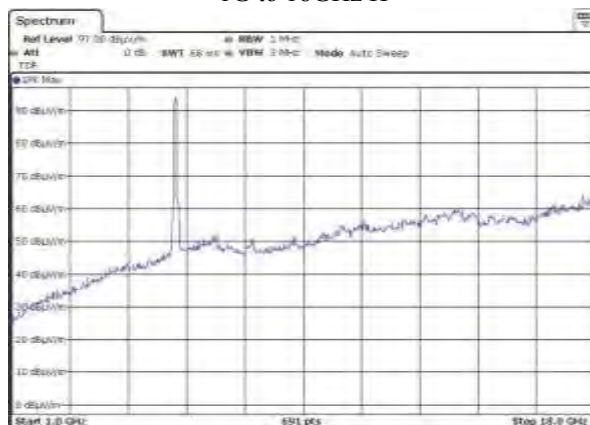
Page 420 of 514

Unwanted emission
802.11ac VHT80 5775 MHz (CH155)
Antenna option 2

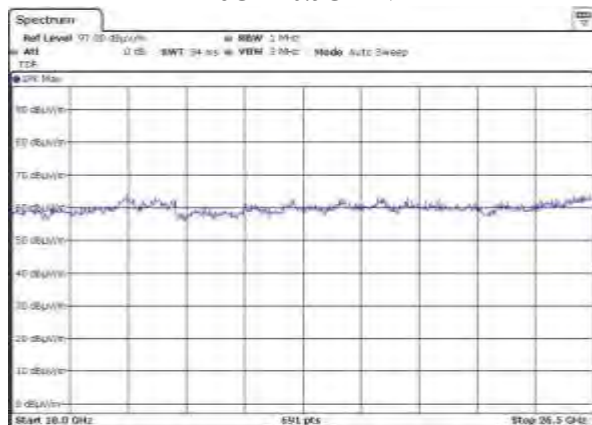
1G to 18GHz V



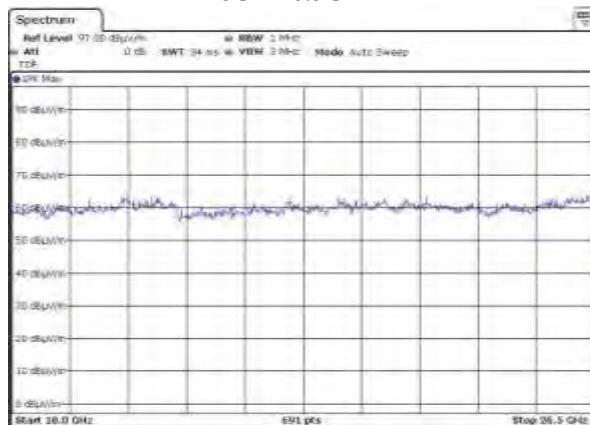
1G to 18GHz H



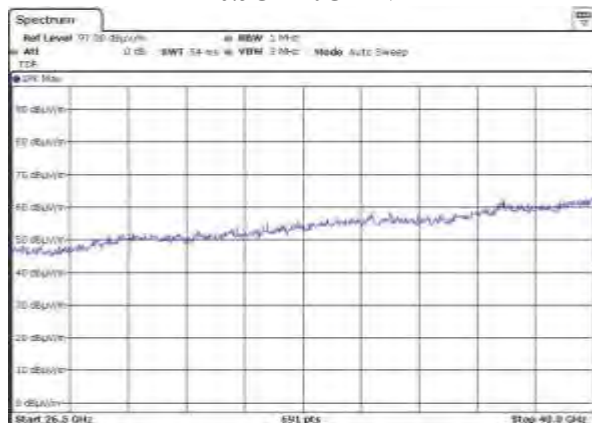
18G – 26.5GHz V



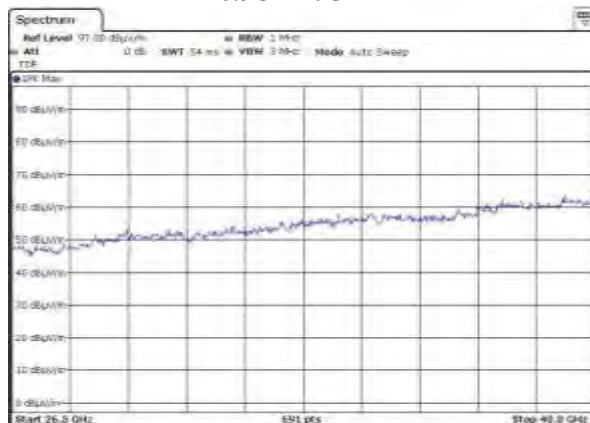
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

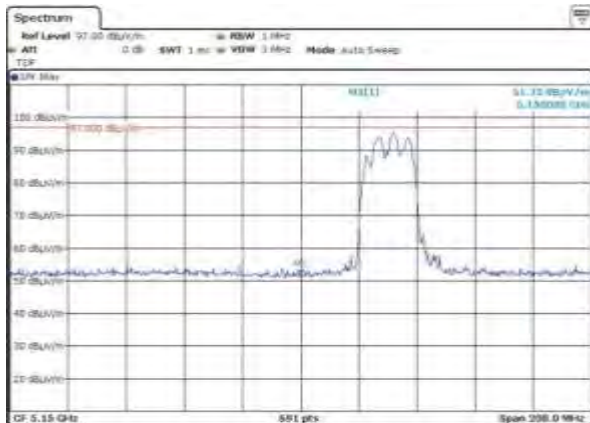
Date : 2021-06-08
No. : HM20020027

Page 421 of 514

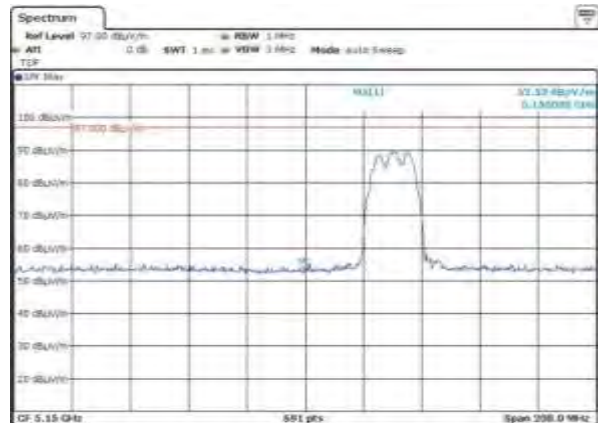
Unwanted emission
802.11a 5180 MHz (CH36)
Antenna option 3

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5150.0	V	PK	1	51.8	74.0	-22.2
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	H	PK	1	52.5	74.0	-21.5
5150.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

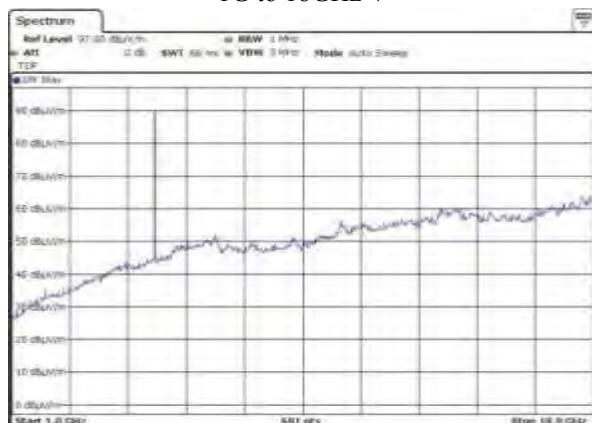
Test Report

Date : 2021-06-08
No. : HM20020027

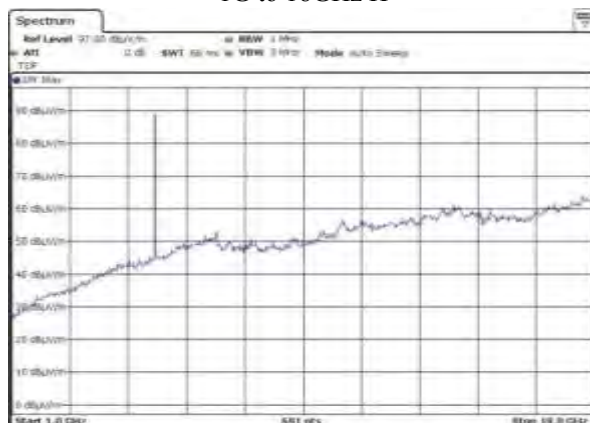
Page 422 of 514

Unwanted emission
802.11a 5180 MHz (CH36)
Antenna option 3

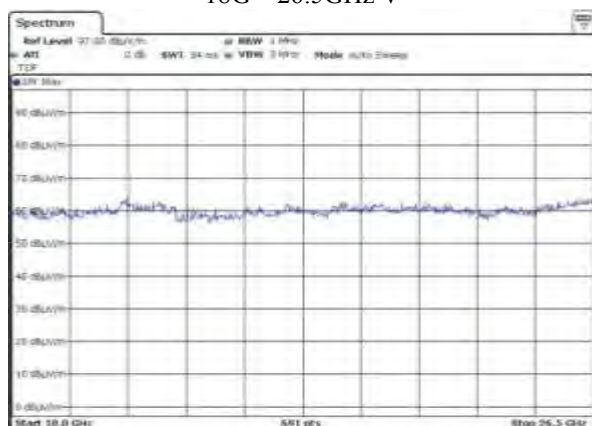
1G to 18GHz V



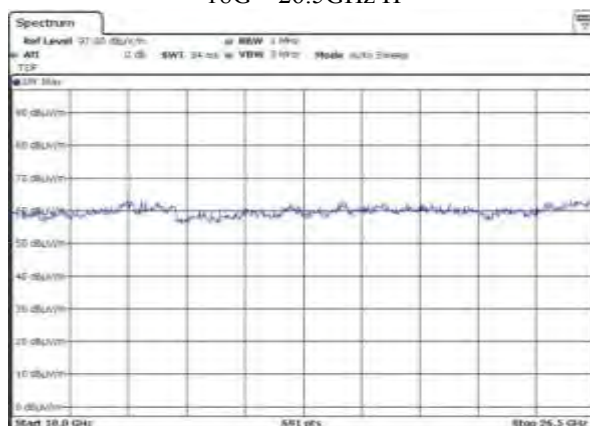
1G to 18GHz H



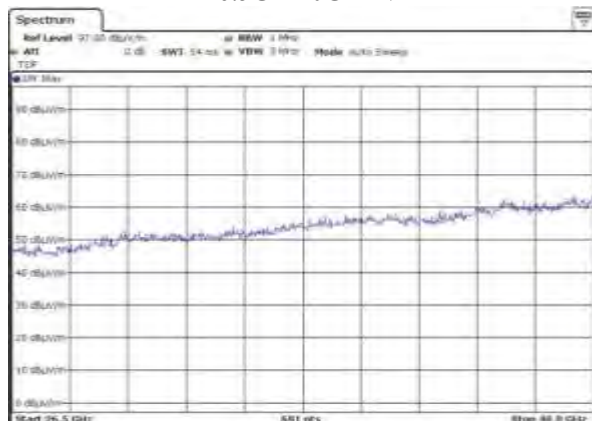
18G – 26.5GHz V



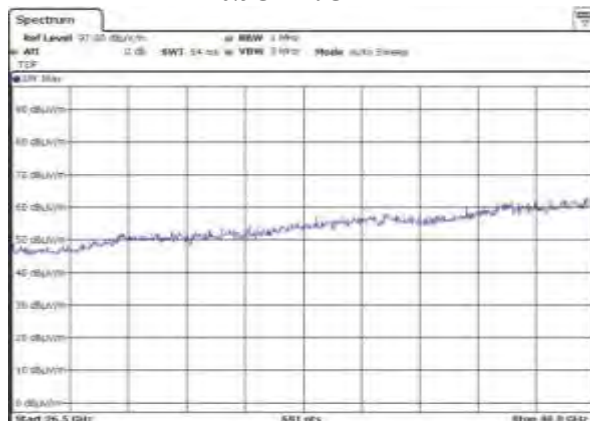
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



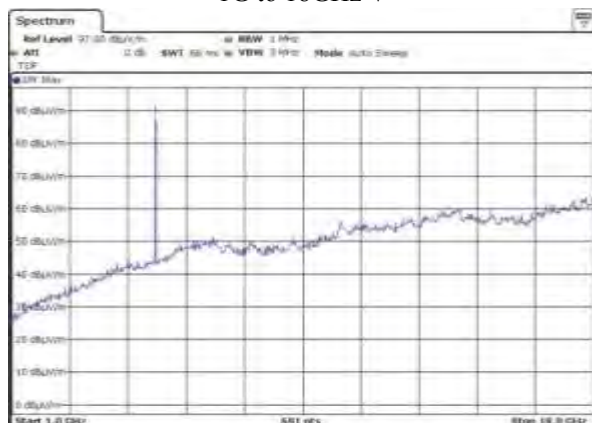
Test Report

Date : 2021-06-08
No. : HM20020027

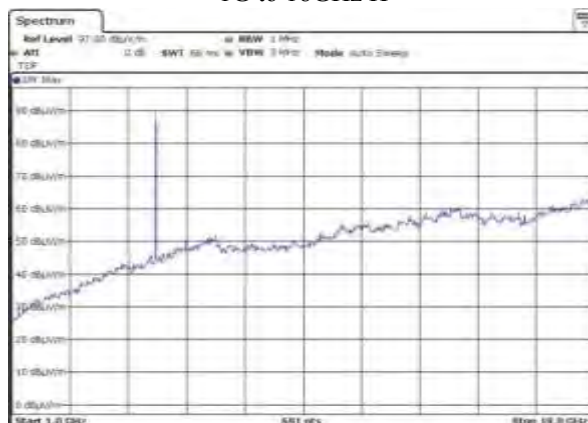
Page 423 of 514

Unwanted emission
802.11a 5200 MHz (CH40)
Antenna option 3

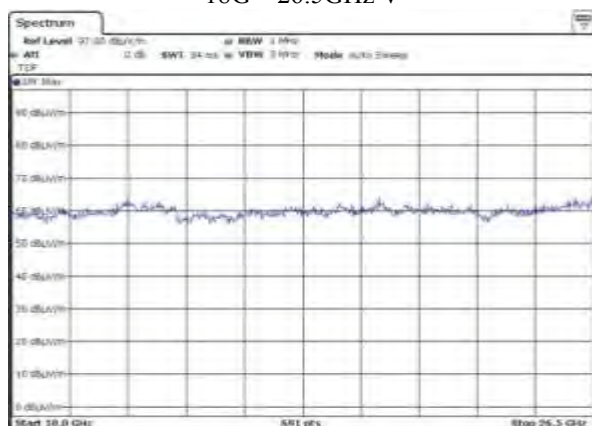
1G to 18GHz V



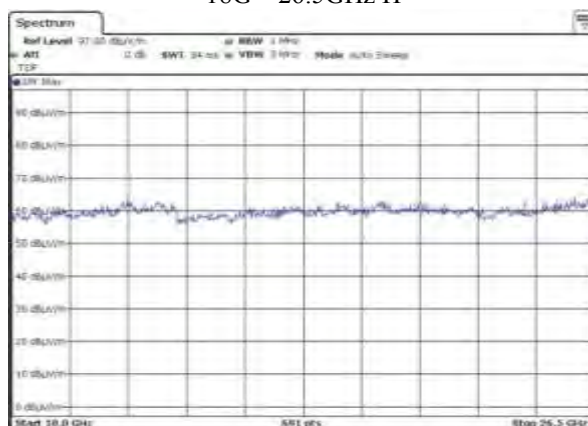
1G to 18GHz H



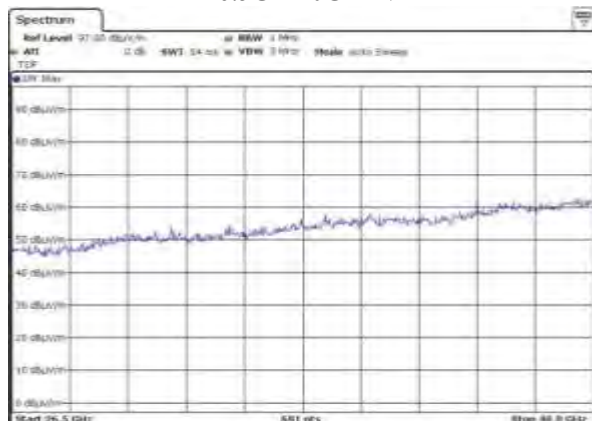
18G – 26.5GHz V



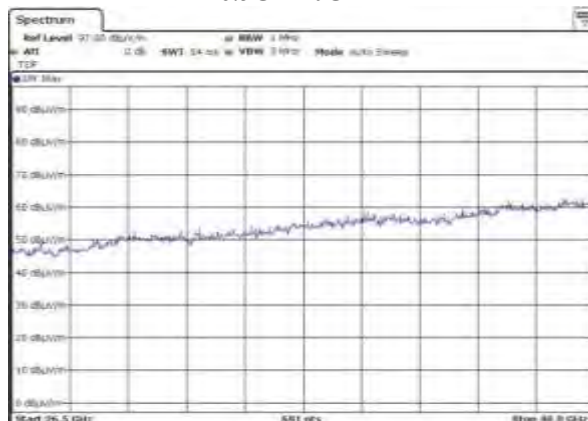
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



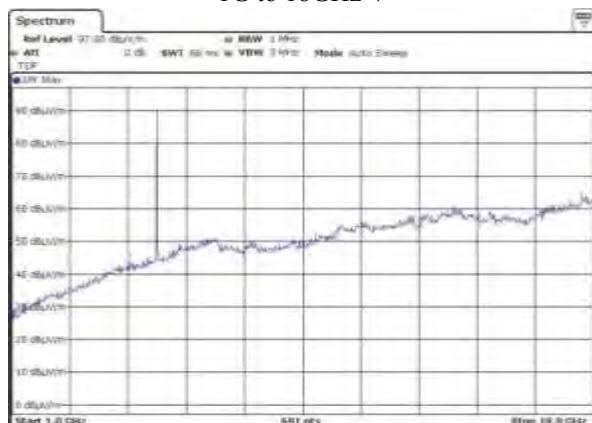
Test Report

Date : 2021-06-08
No. : HM20020027

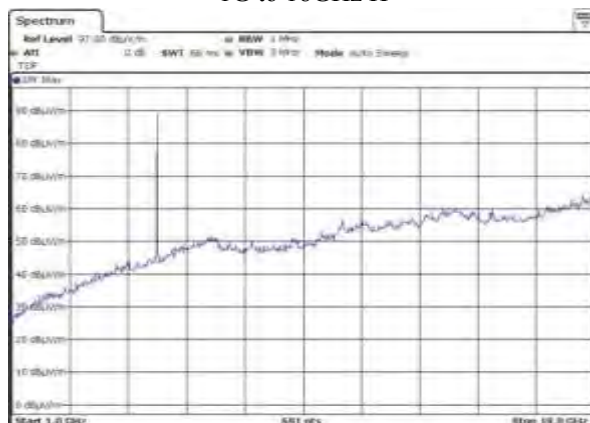
Page 424 of 514

Unwanted emission
802.11a 5240 MHz (CH48)
Antenna option 3

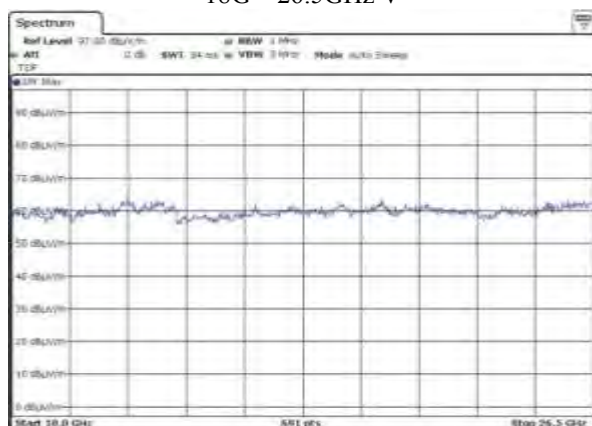
1G to 18GHz V



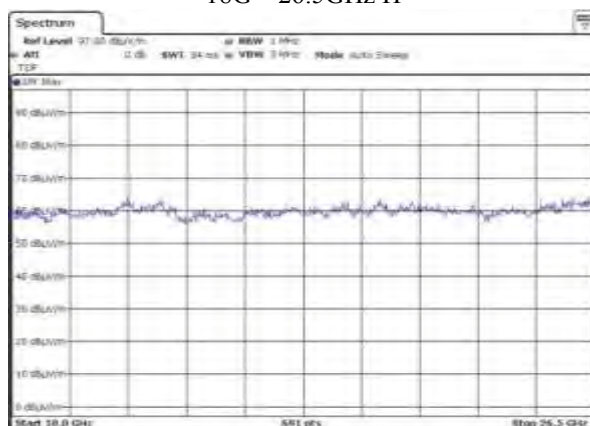
1G to 18GHz H



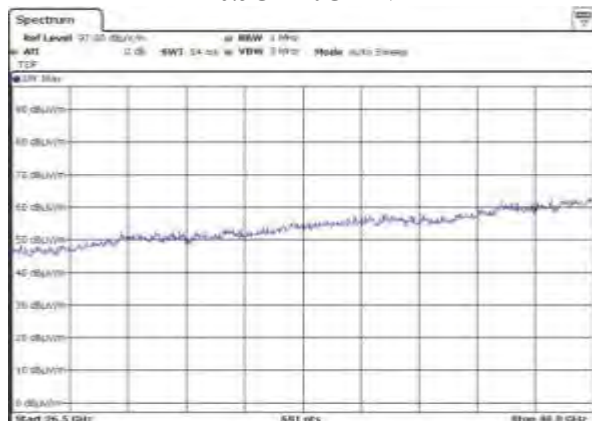
18G – 26.5GHz V



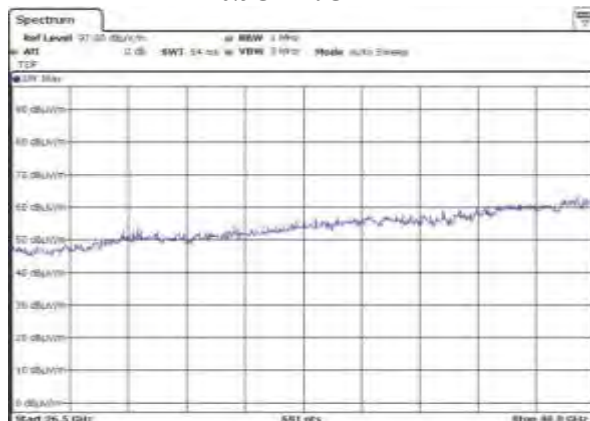
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



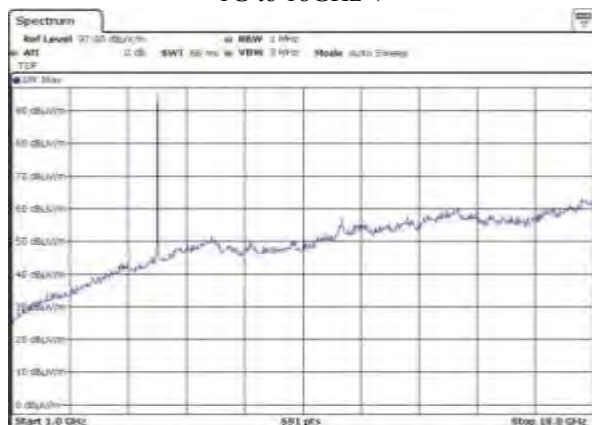
Test Report

Date : 2021-06-08
No. : HM20020027

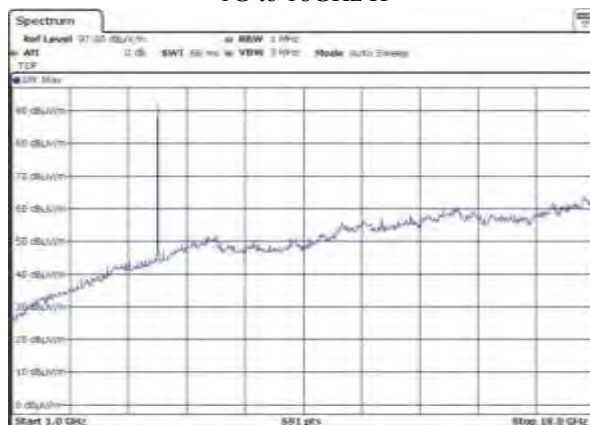
Page 425 of 514

Unwanted emission
802.11a 5260 MHz (CH52)
Antenna option 3

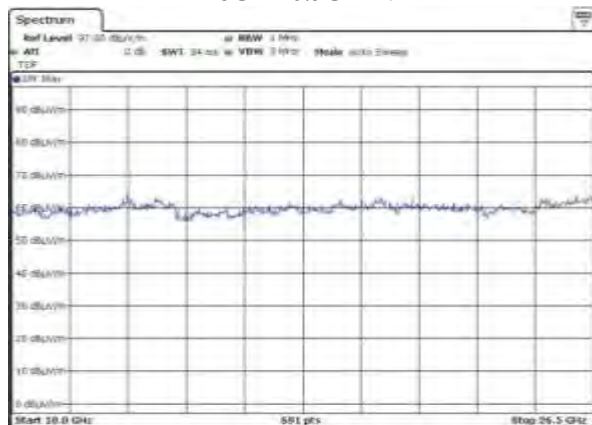
1G to 18GHz V



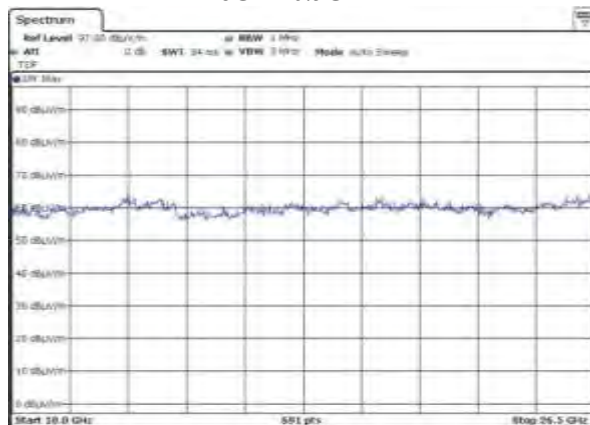
1G to 18GHz H



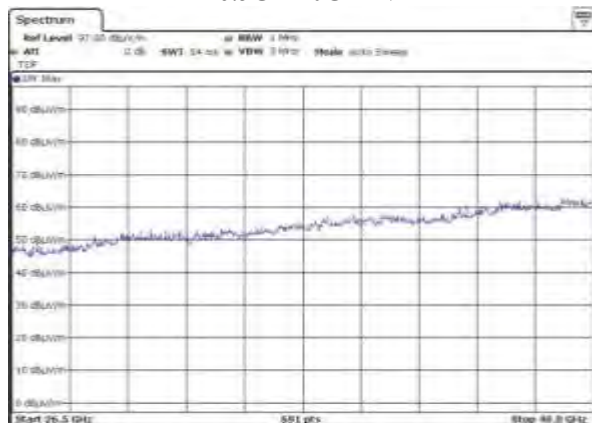
18G – 26.5GHz V



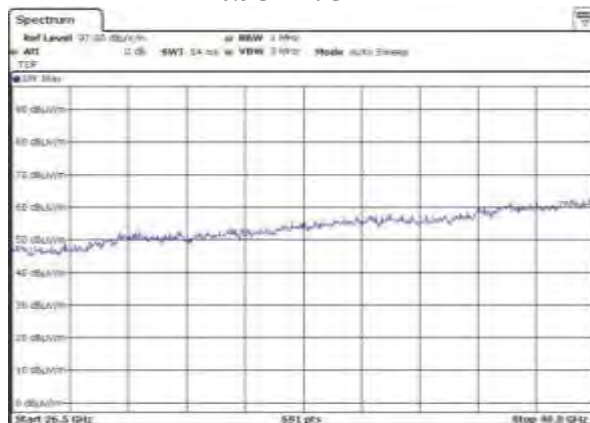
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



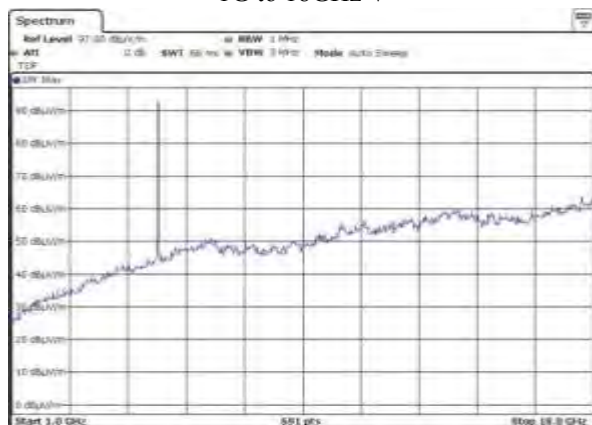
Test Report

Date : 2021-06-08
No. : HM20020027

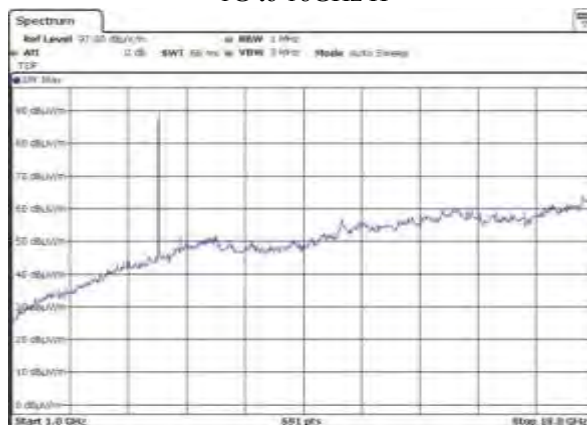
Page 426 of 514

Unwanted emission
802.11a 5280 MHz (CH56)
Antenna option 3

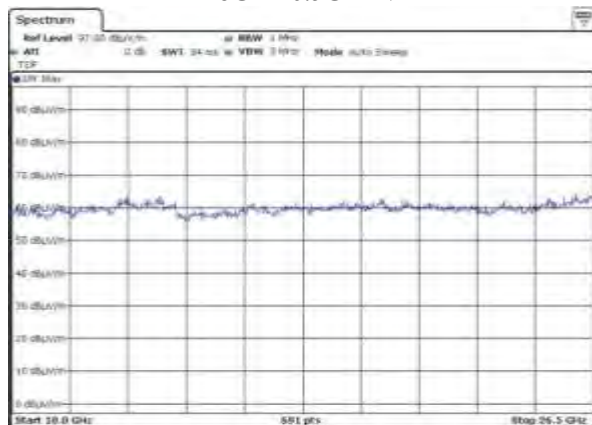
1G to 18GHz V



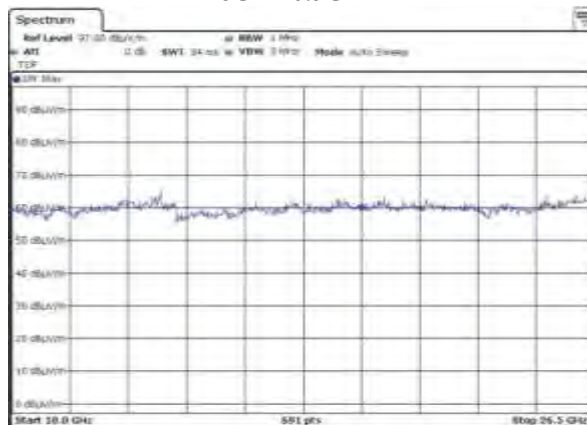
1G to 18GHz H



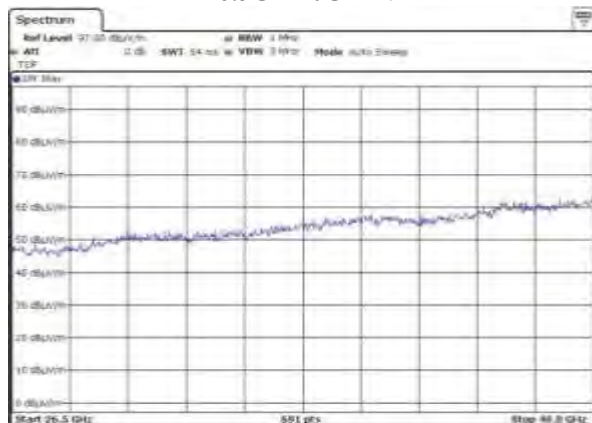
18G – 26.5GHz V



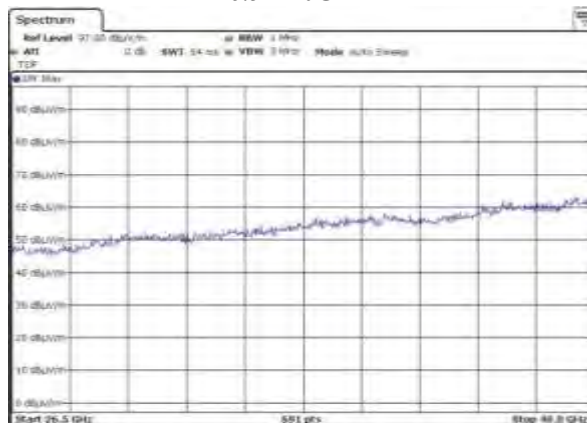
18G – 26.5GHz H



26.5G – 40GHz V



26.5 – 40GHz H



Test Report

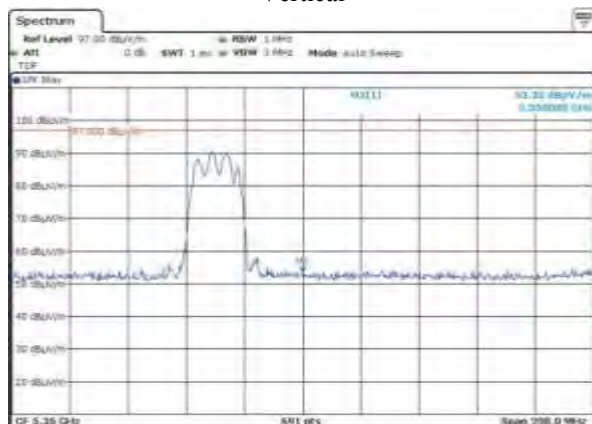
Date : 2021-06-08
No. : HM20020027

Page 427 of 514

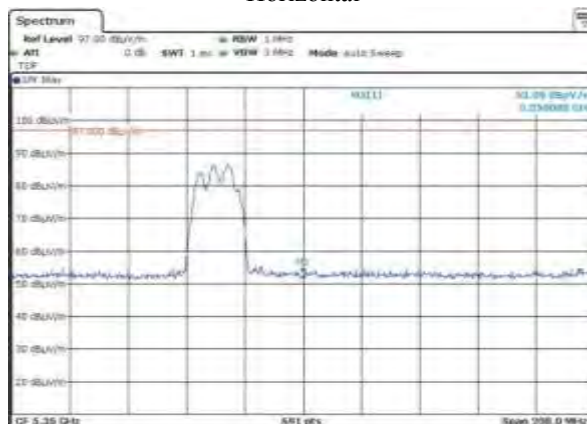
Unwanted emission
802.11a 5320 MHz (CH64)
Antenna option 3

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	53.4	74.0	-20.6
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	H	PK	1	53.1	74.0	-20.9
5350.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

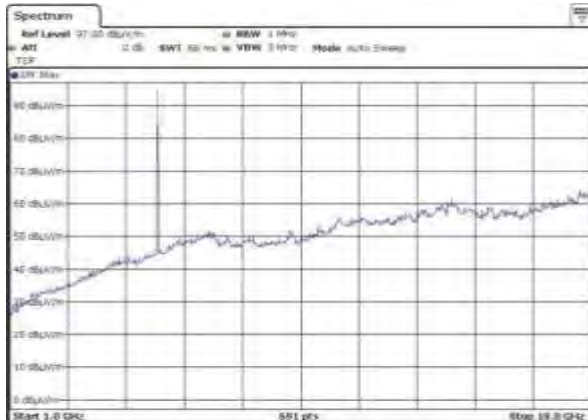
Test Report

Date : 2021-06-08
No. : HM20020027

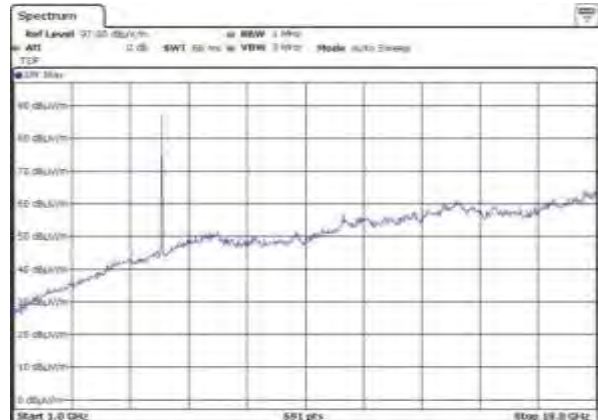
Page 428 of 514

Unwanted emission
802.11a 5320 MHz (CH64)
Antenna option 3

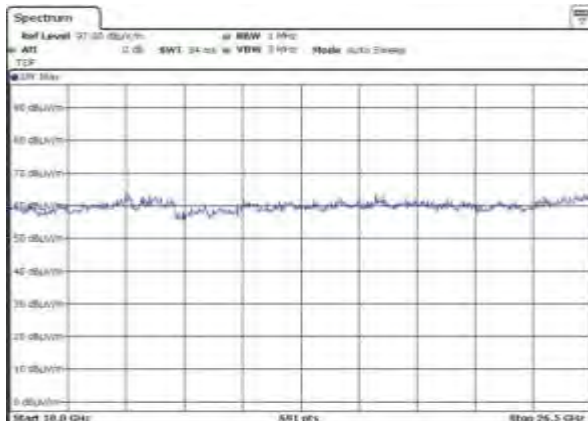
1G to 18GHz V



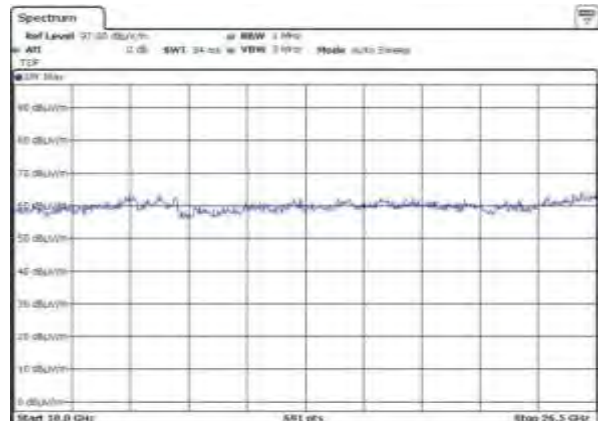
1G to 18GHz H



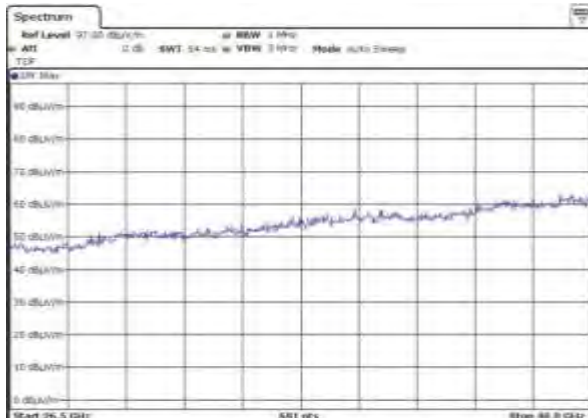
18G – 26.5GHz V



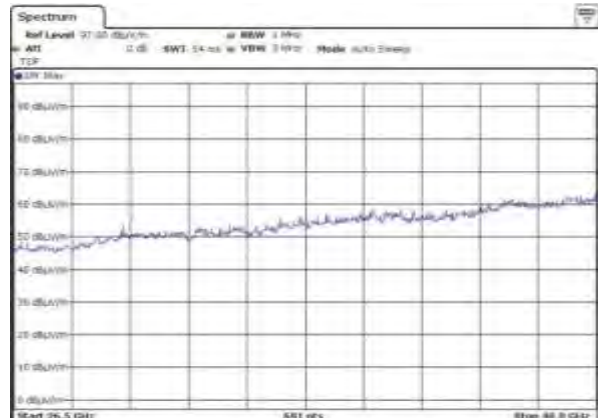
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

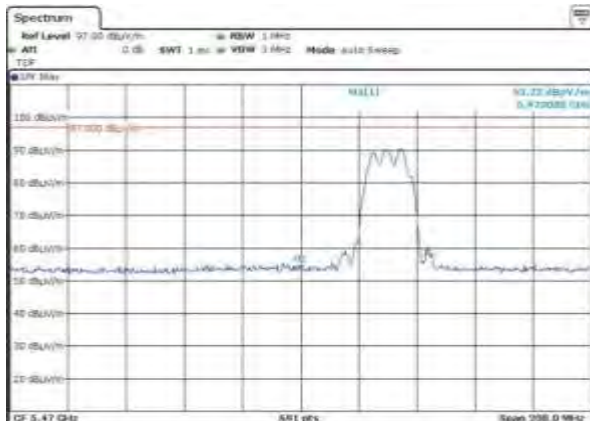
Date : 2021-06-08
No. : HM20020027

Page 429 of 514

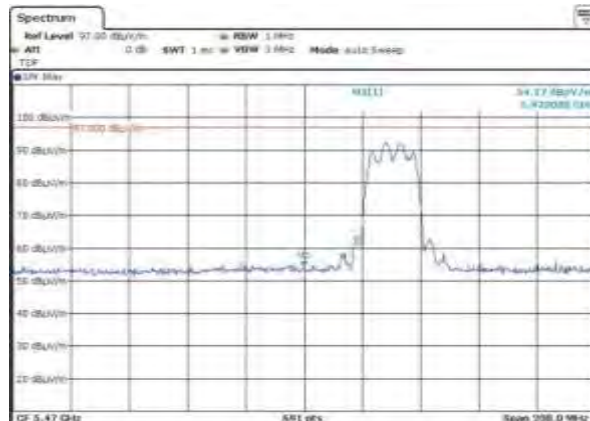
Unwanted emission
802.11a 5500 MHz (CH100)
Antenna option 3

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	53.8	74.0	-20.2
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	H	PK	1	53.6	74.0	-20.4
5470.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

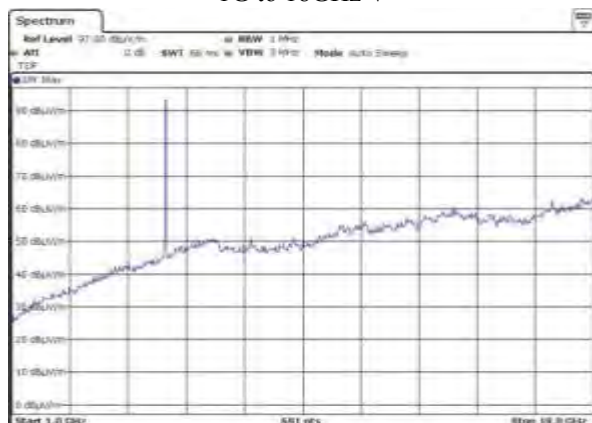
Test Report

Date : 2021-06-08
No. : HM20020027

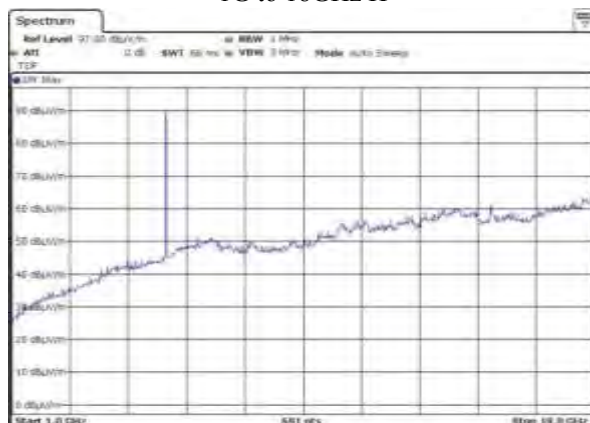
Page 430 of 514

Unwanted emission
802.11a 5500 MHz (CH100)
Antenna option 3

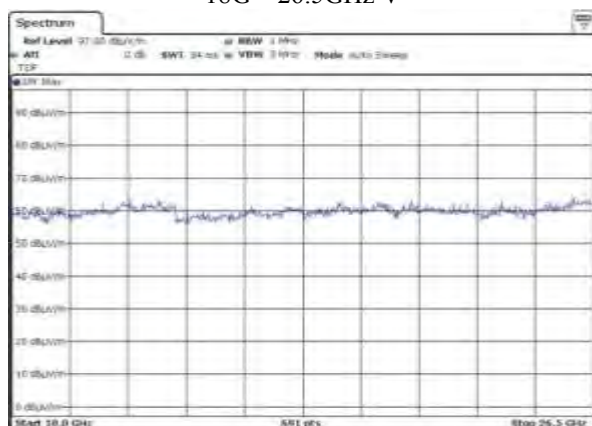
1G to 18GHz V



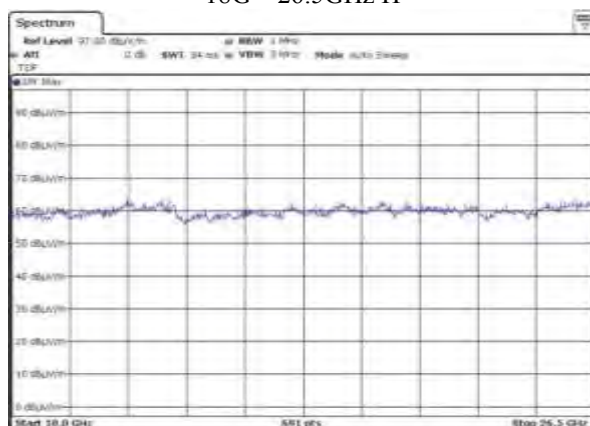
1G to 18GHz H



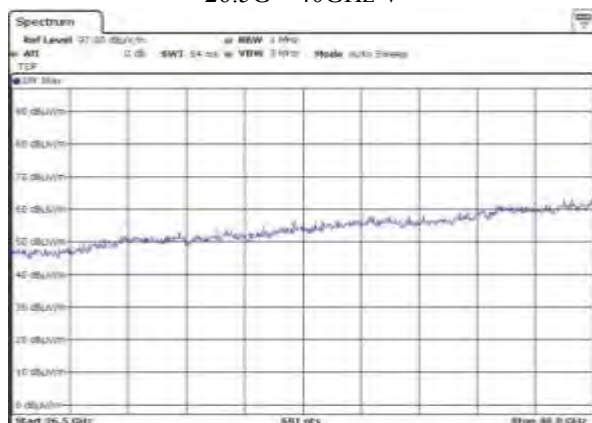
18G – 26.5GHz V



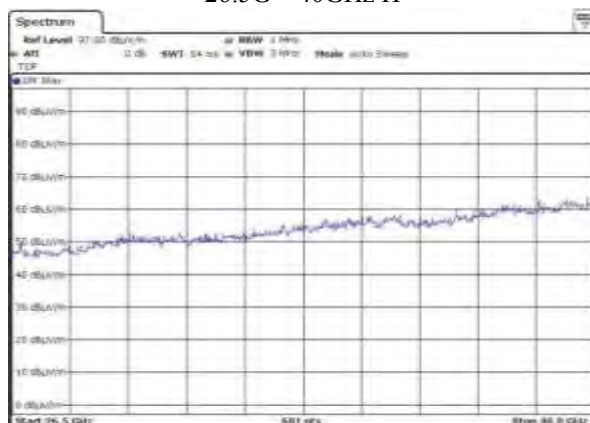
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



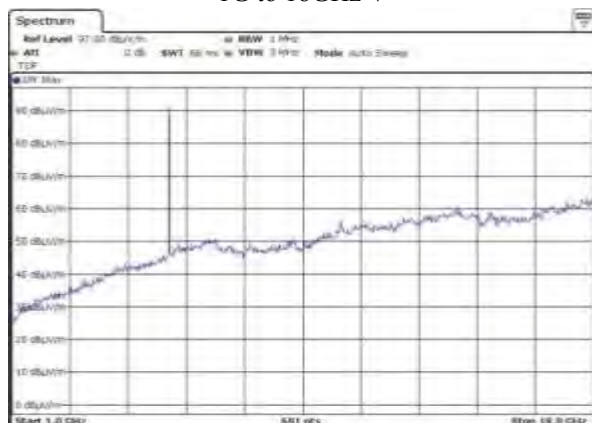
Test Report

Date : 2021-06-08
No. : HM20020027

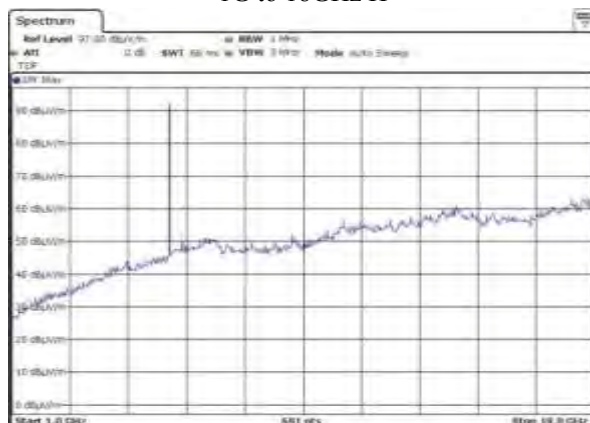
Page 431 of 514

Unwanted emission
802.11a 5600 MHz (CH120)
Antenna option 3

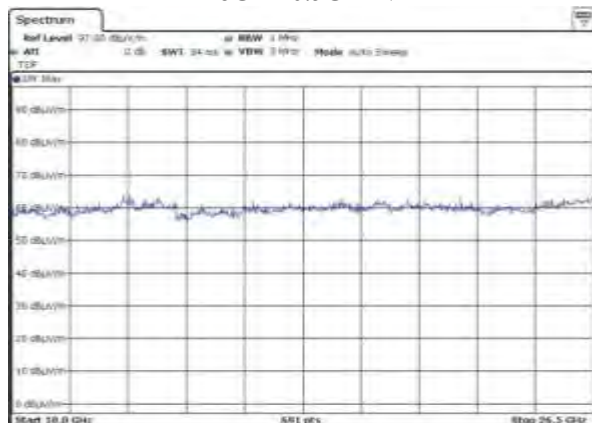
1G to 18GHz V



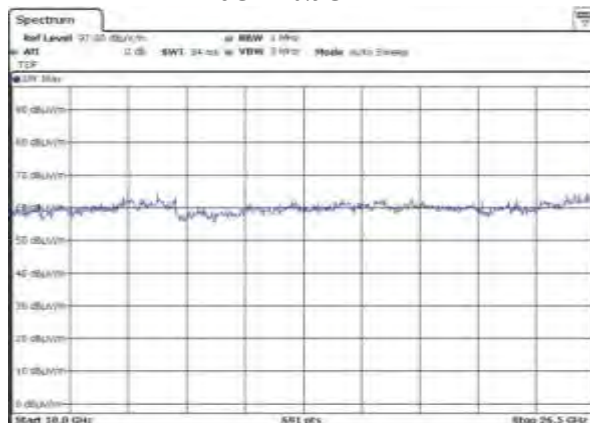
1G to 18GHz H



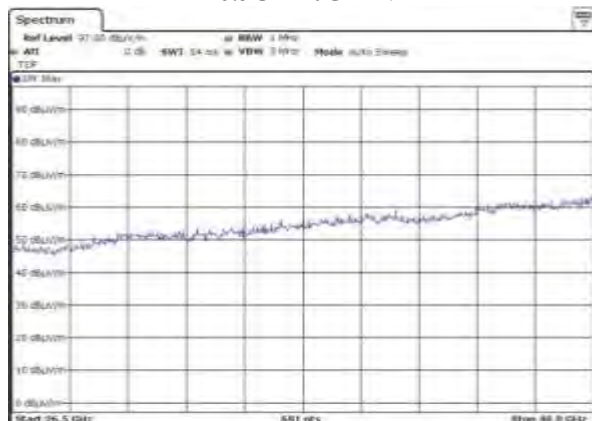
18G – 26.5GHz V



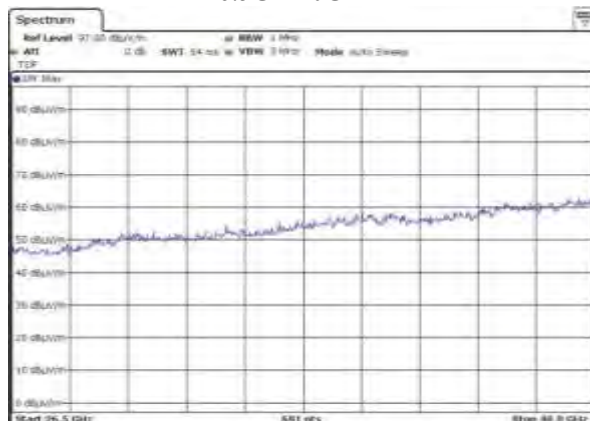
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



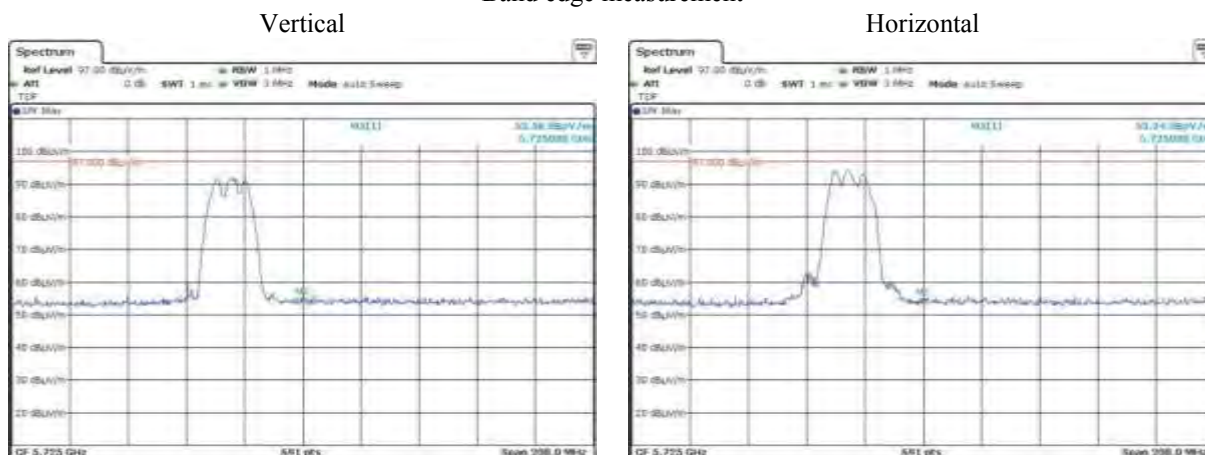
Test Report

Date : 2021-06-08
No. : HM20020027

Page 432 of 514

Unwanted emission
802.11a 5700 MHz (CH140)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	53.6	74.0	-20.4
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	53.2	74.0	-20.8
5725.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

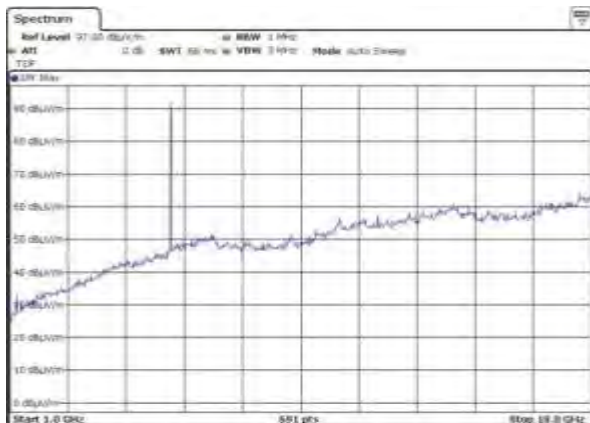
Test Report

Date : 2021-06-08
No. : HM20020027

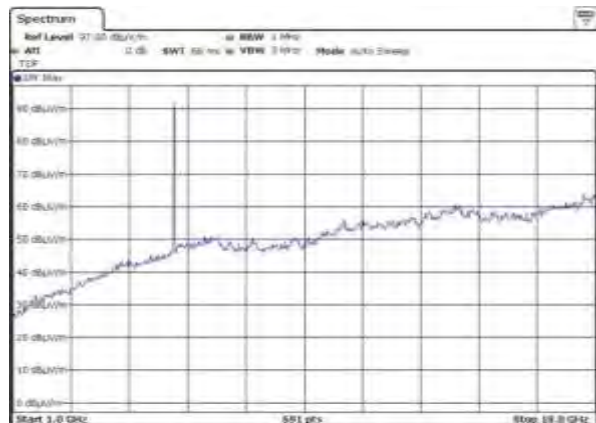
Page 433 of 514

Unwanted emission
802.11a 5700 MHz (CH140)
Antenna option 3

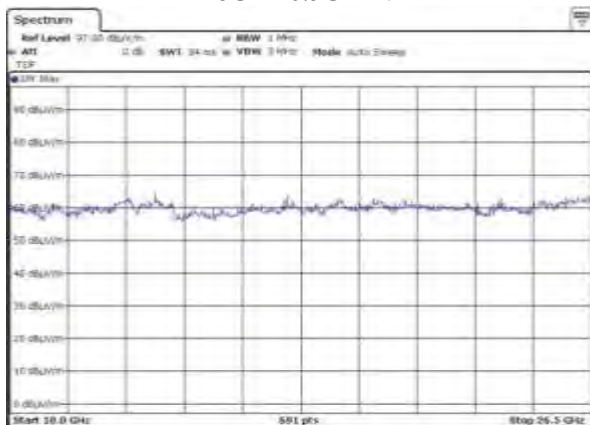
1G to 18GHz V



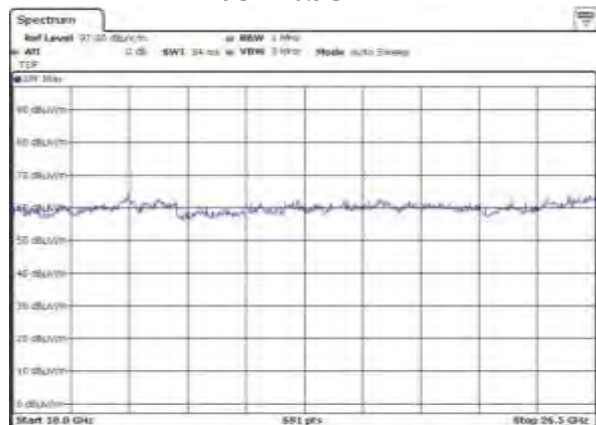
1G to 18GHz H



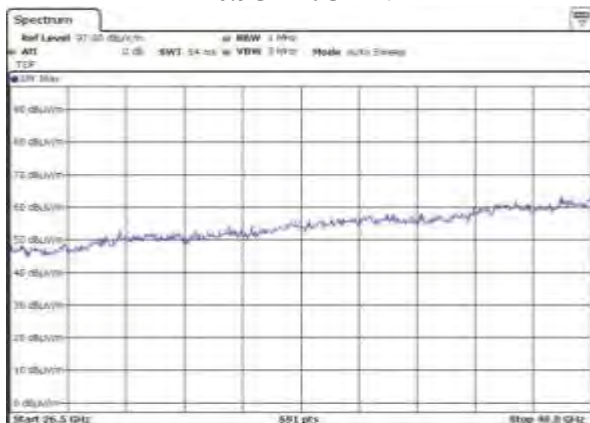
18G – 26.5GHz V



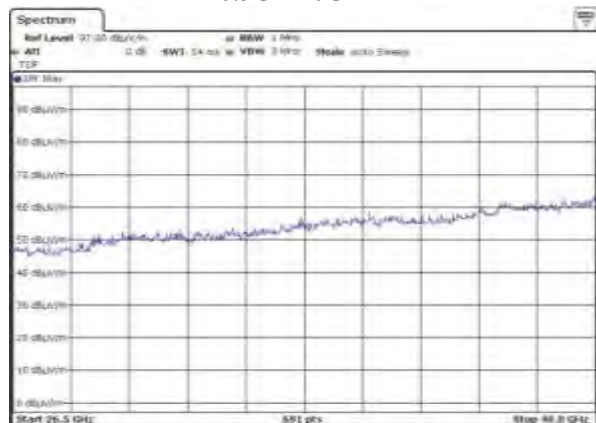
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

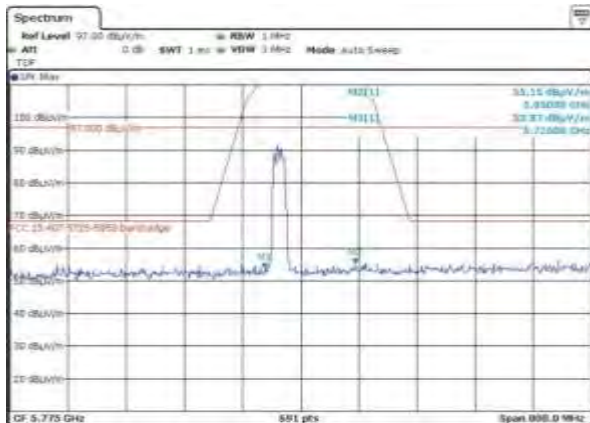
Date : 2021-06-08
No. : HM20020027

Page 434 of 514

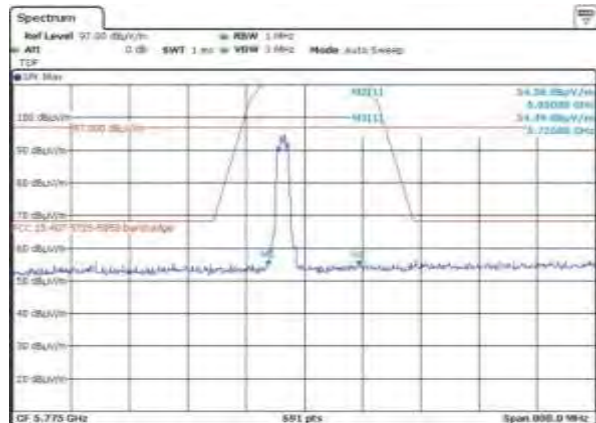
Unwanted emission
802.11a 5745 MHz (CH149)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

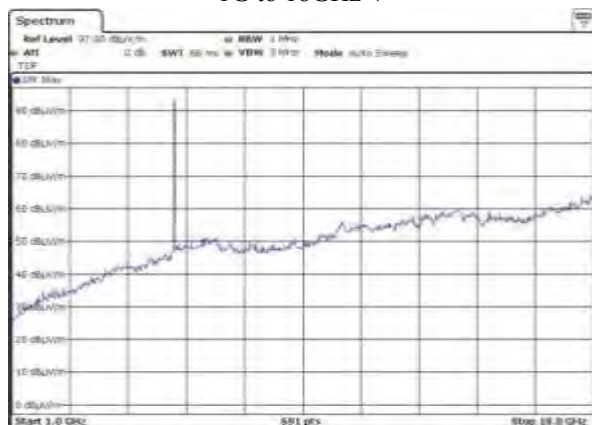
Test Report

Date : 2021-06-08
No. : HM20020027

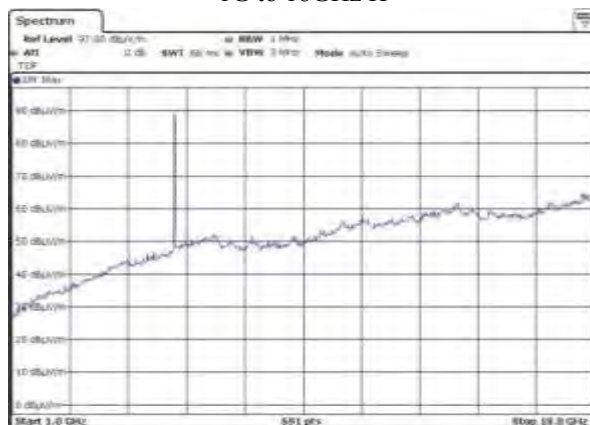
Page 435 of 514

Unwanted emission
802.11a 5745 MHz (CH149)
Antenna option 3

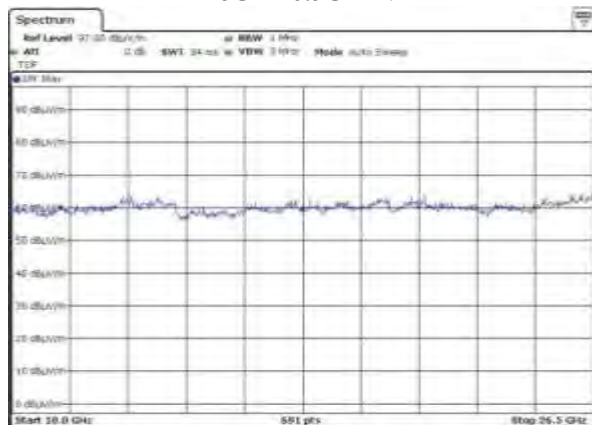
1G to 18GHz V



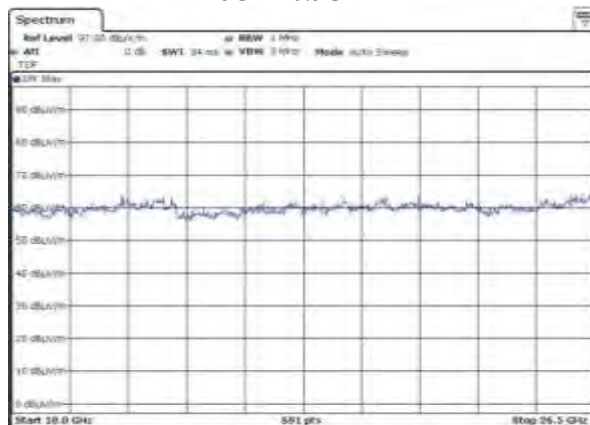
1G to 18GHz H



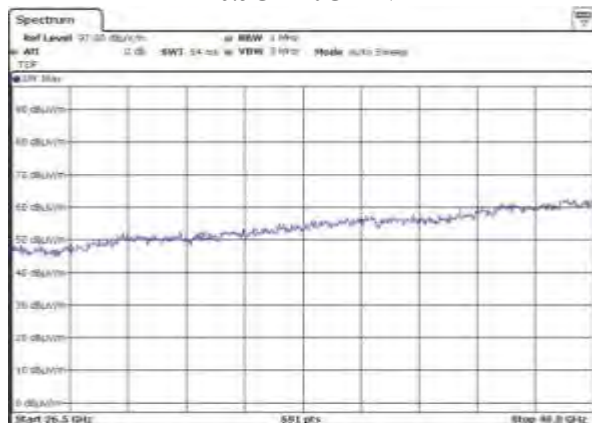
18G – 26.5GHz V



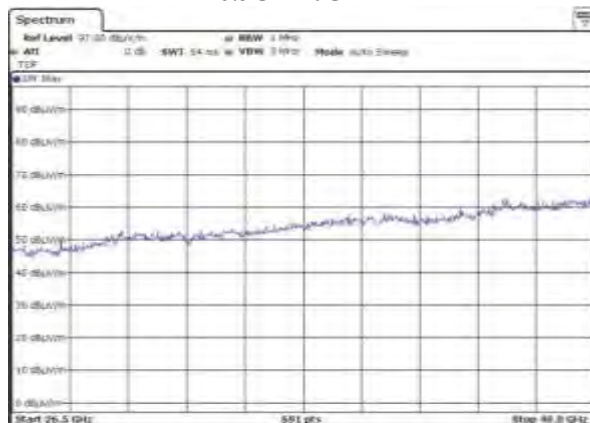
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



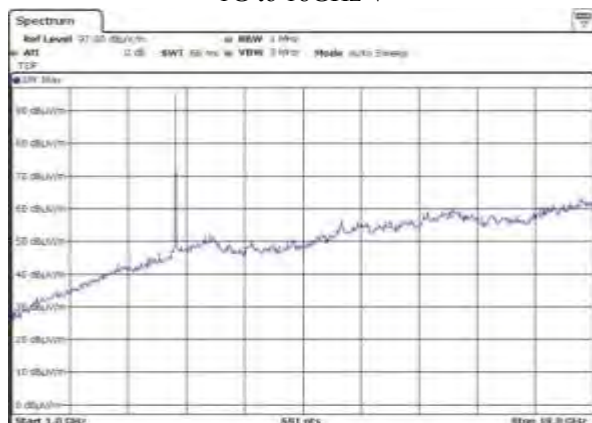
Test Report

Date : 2021-06-08
No. : HM20020027

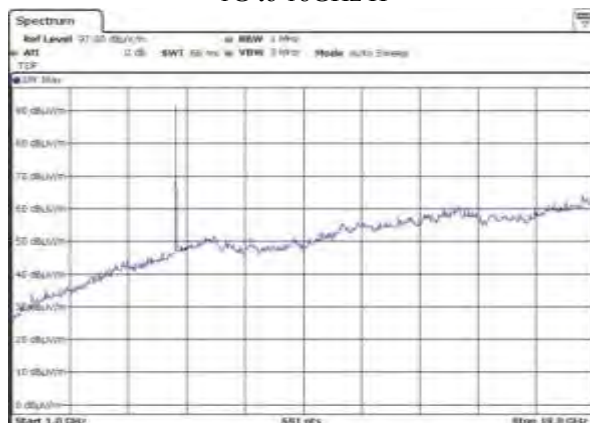
Page 436 of 514

Unwanted emission
802.11a 5785 MHz (CH157)
Antenna option 3

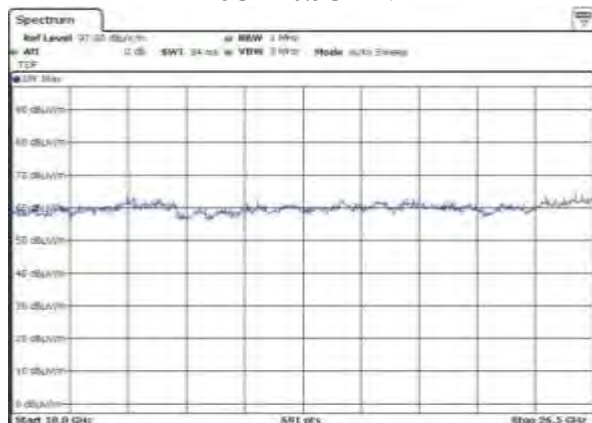
1G to 18GHz V



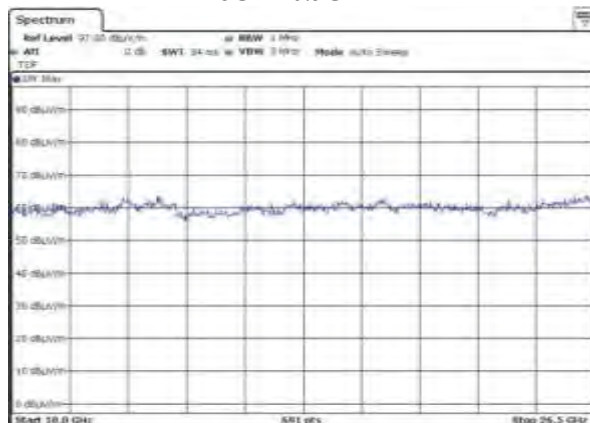
1G to 18GHz H



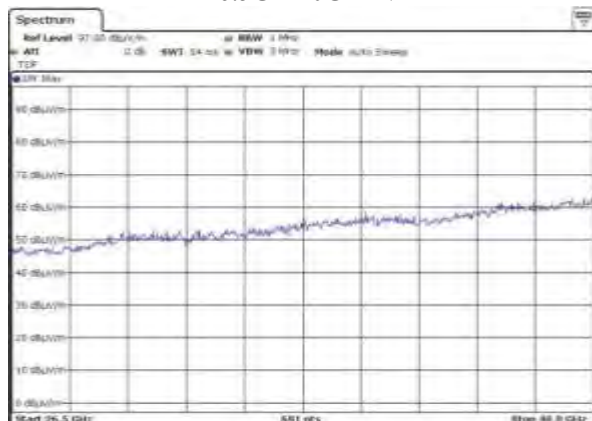
18G – 26.5GHz V



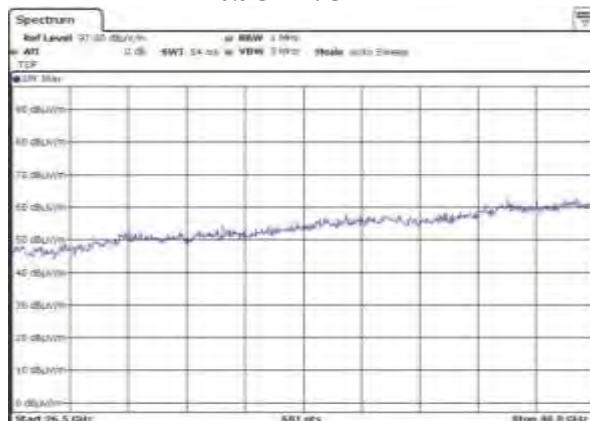
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

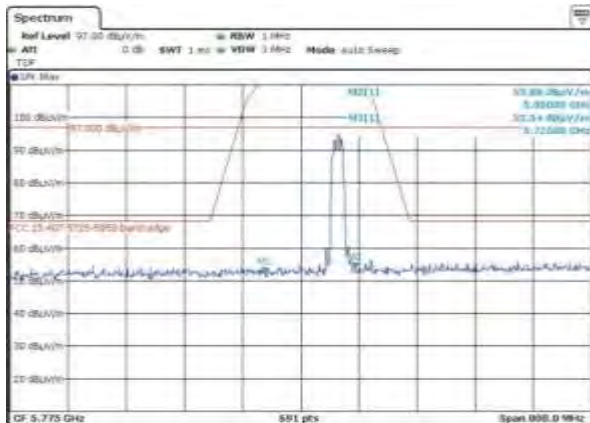
Date : 2021-06-08
No. : HM20020027

Page 437 of 514

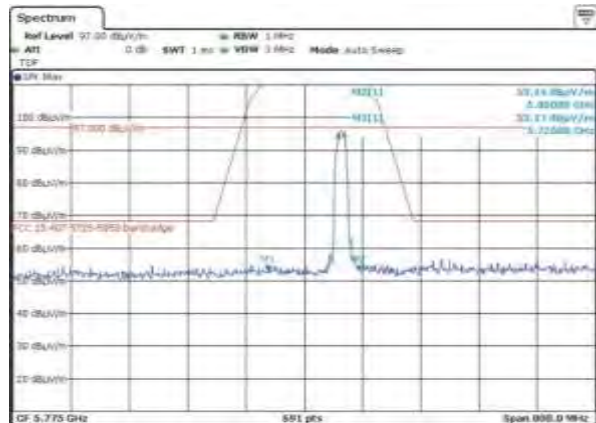
Unwanted emission
802.11a 5825 MHz (CH165)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

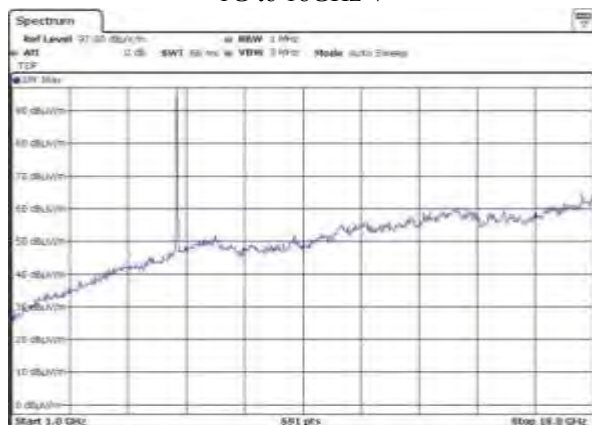
Test Report

Date : 2021-06-08
No. : HM20020027

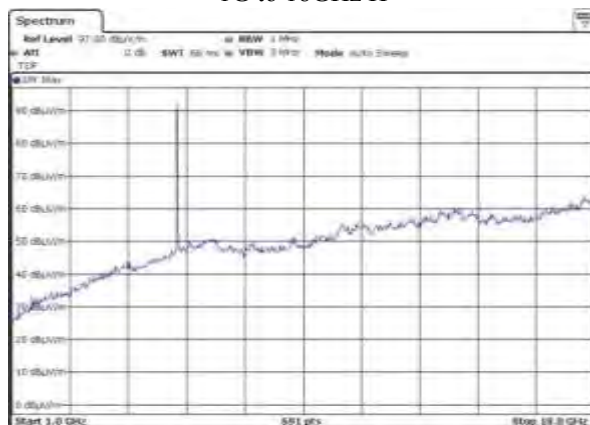
Page 438 of 514

Unwanted emission
802.11a 5825 MHz (CH165)
Antenna option 3

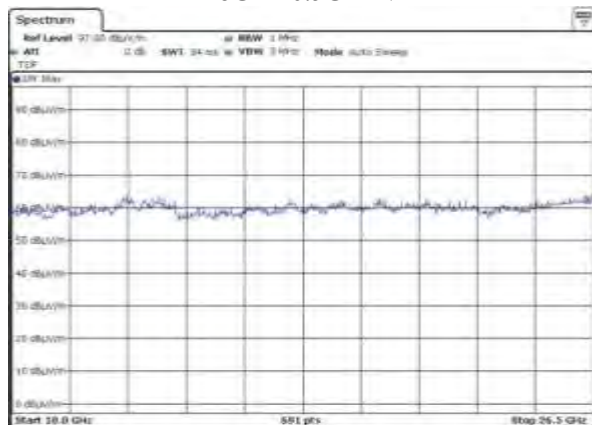
1G to 18GHz V



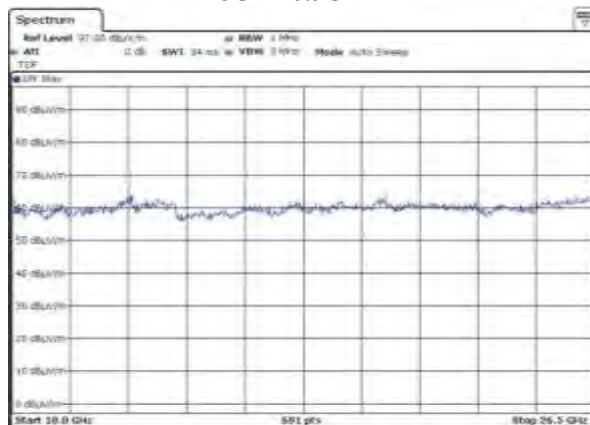
1G to 18GHz H



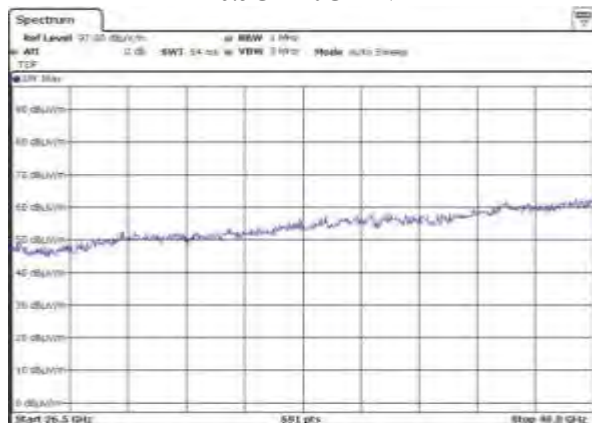
18G – 26.5GHz V



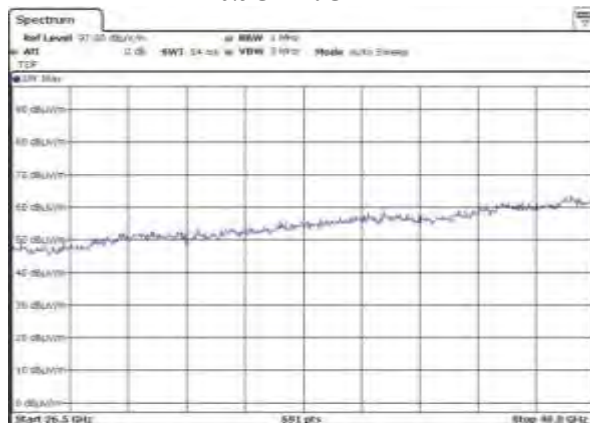
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

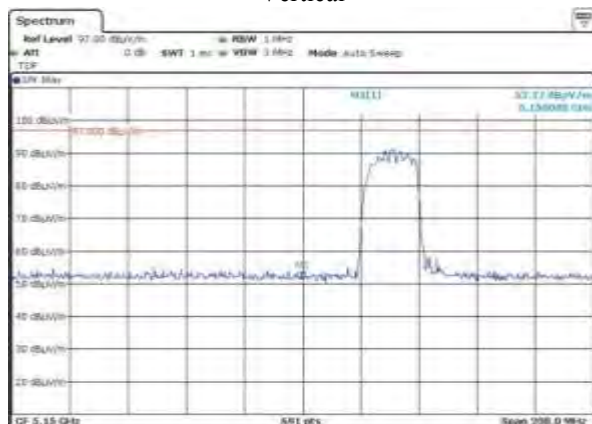
Date : 2021-06-08
No. : HM20020027

Page 439 of 514

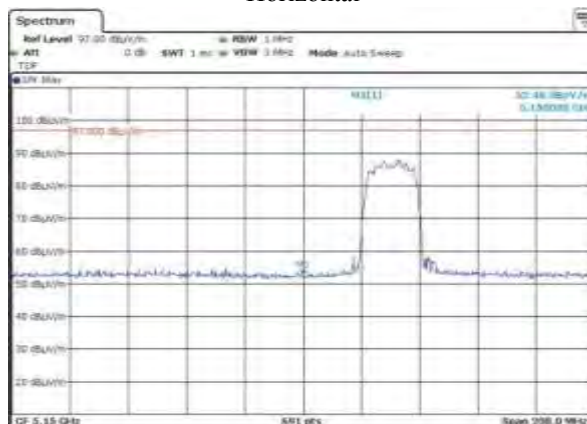
Unwanted emission
802.11n HT20 5180 MHz (CH36)
Antenna option 3

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5150.0	V	PK	1	52.2	74.0	-21.8
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	H	PK	1	52.5	74.0	-21.5
5150.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

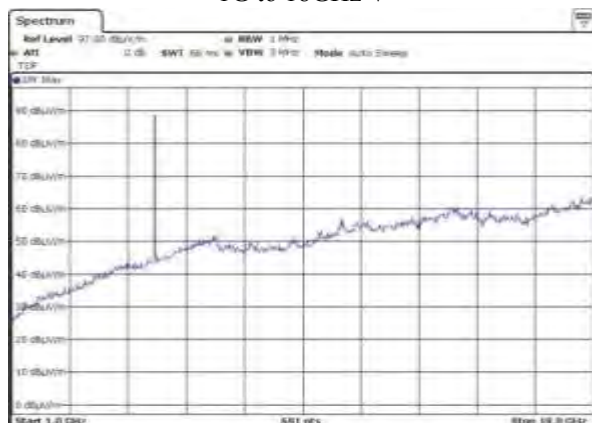
Test Report

Date : 2021-06-08
No. : HM20020027

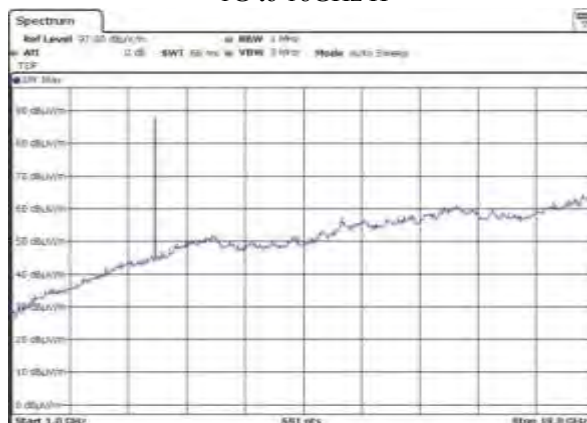
Page 440 of 514

Unwanted emission
802.11n HT20 5180 MHz (CH36)
Antenna option 3

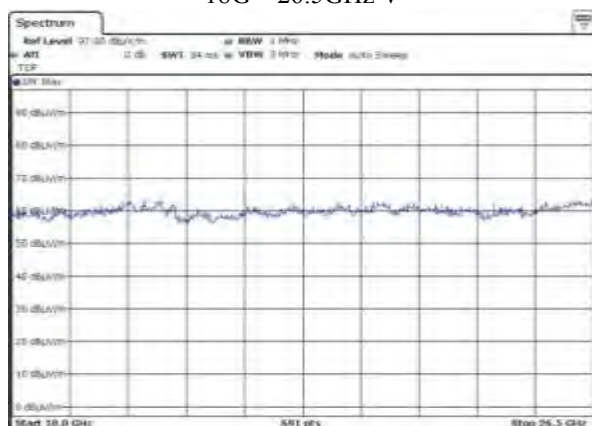
1G to 18GHz V



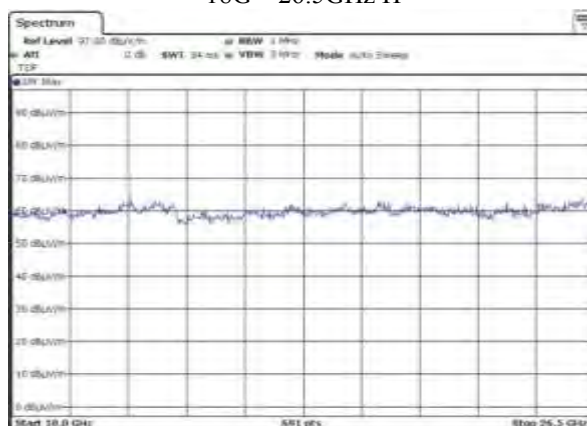
1G to 18GHz H



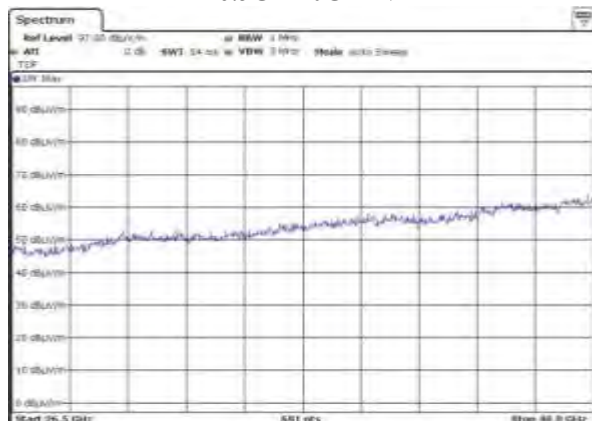
18G – 26.5GHz V



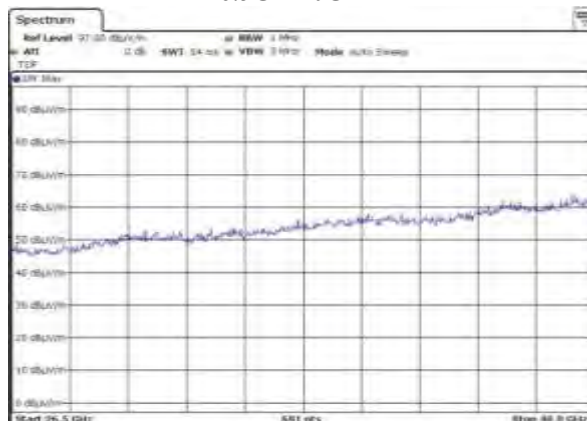
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



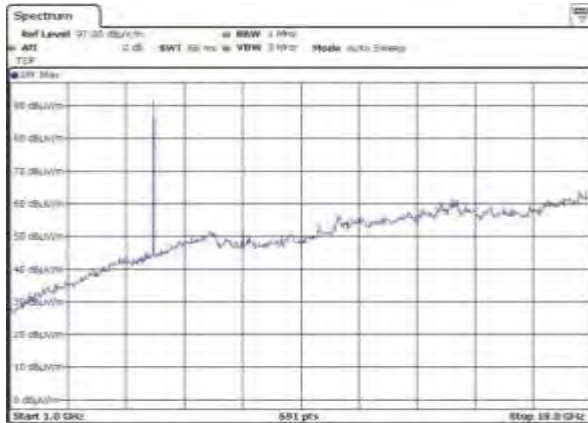
Test Report

Date : 2021-06-08
No. : HM20020027

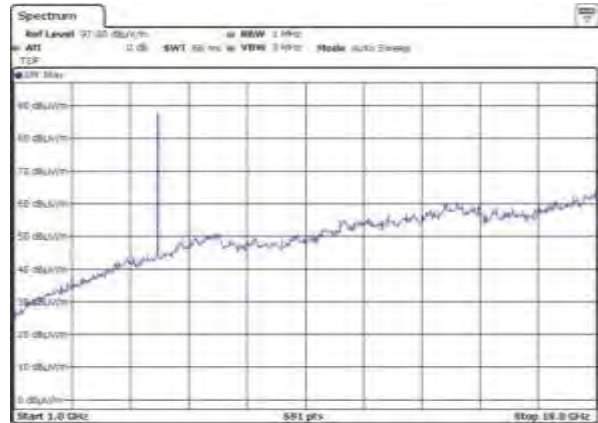
Page 441 of 514

Unwanted emission
802.11n HT20 5200 MHz (CH40)
Antenna option 3

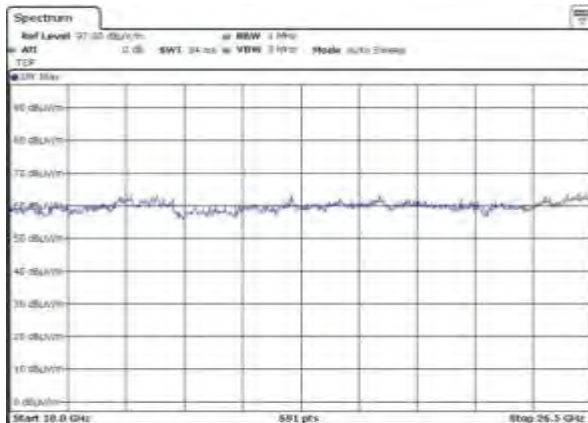
1G to 18GHz V



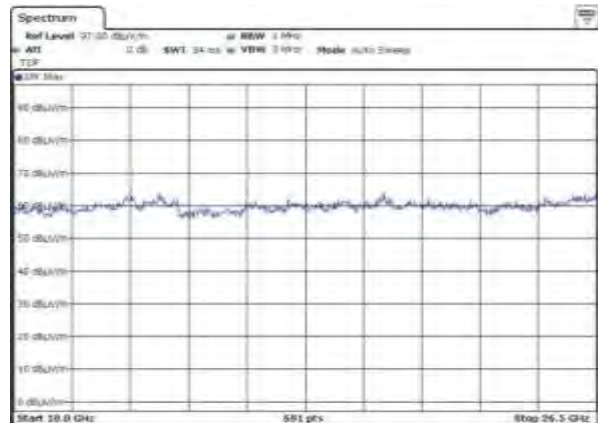
1G to 18GHz H



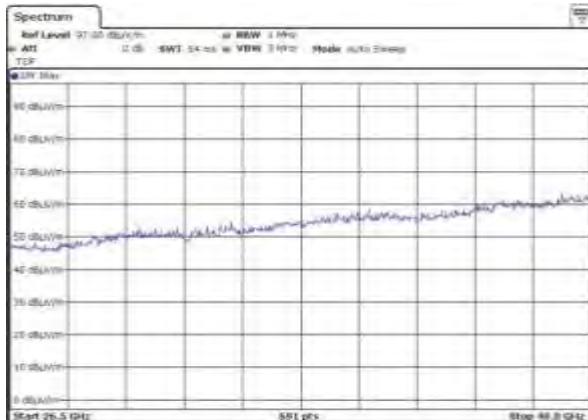
18G – 26.5GHz V



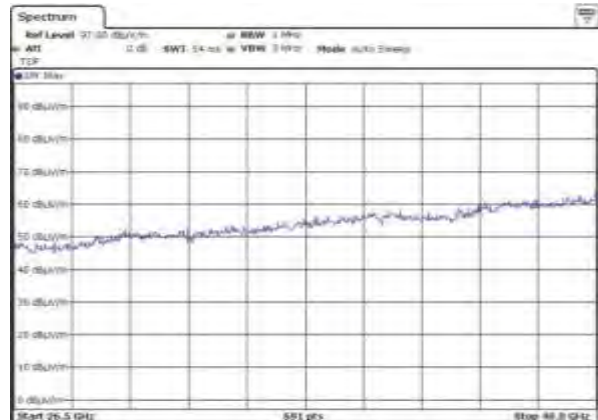
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



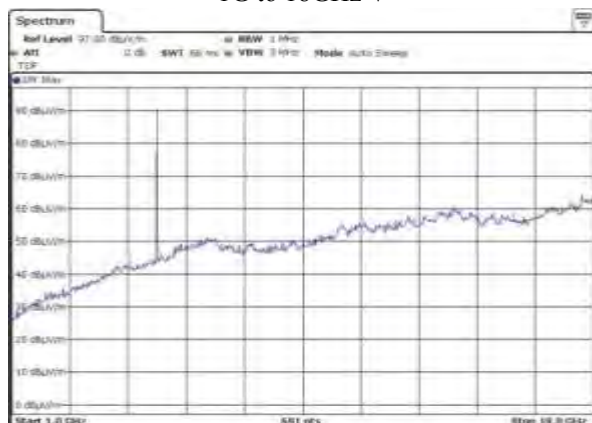
Test Report

Date : 2021-06-08
No. : HM20020027

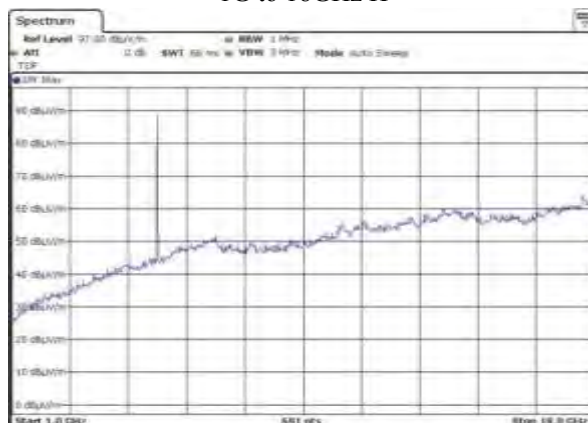
Page 442 of 514

Unwanted emission
802.11n HT20 5240 MHz (CH48)
Antenna option 3

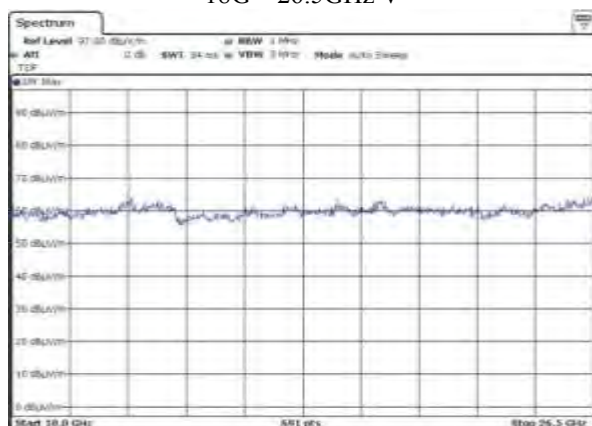
1G to 18GHz V



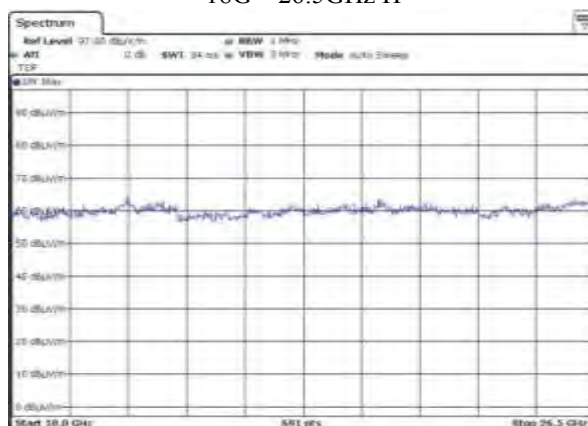
1G to 18GHz H



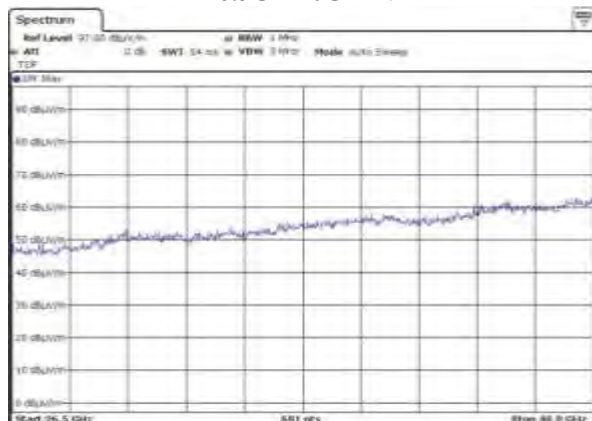
18G – 26.5GHz V



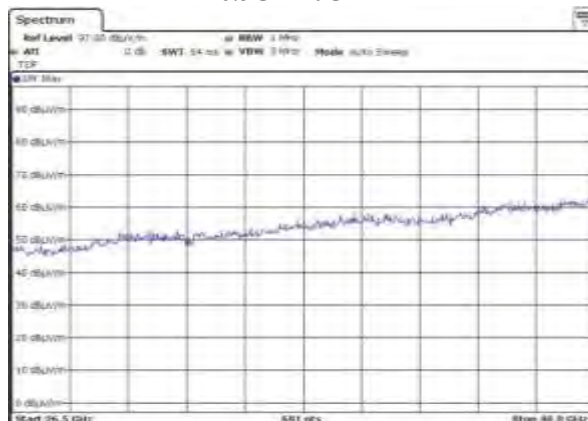
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



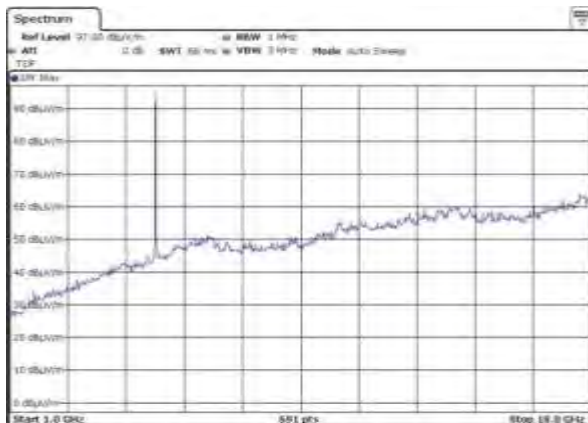
Test Report

Date : 2021-06-08
No. : HM20020027

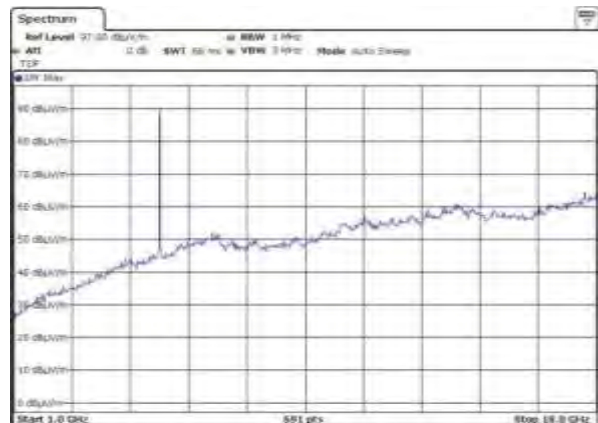
Page 443 of 514

Unwanted emission
802.11n HT20 5260 MHz (CH52)
Antenna option 3

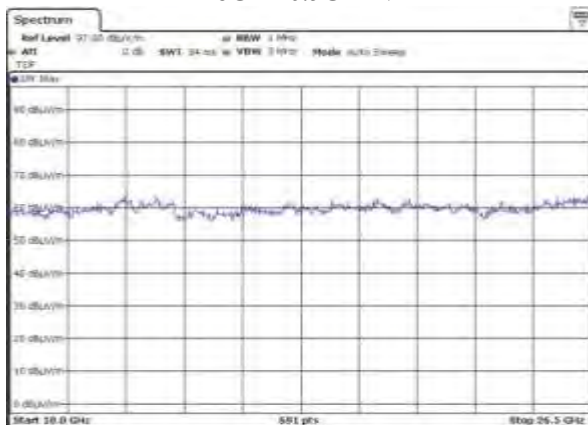
1G to 18GHz V



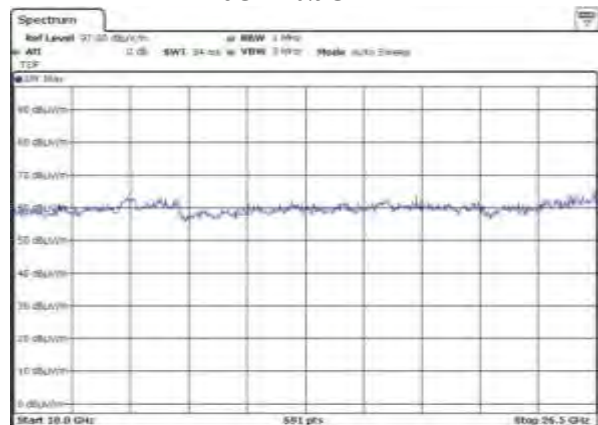
1G to 18GHz H



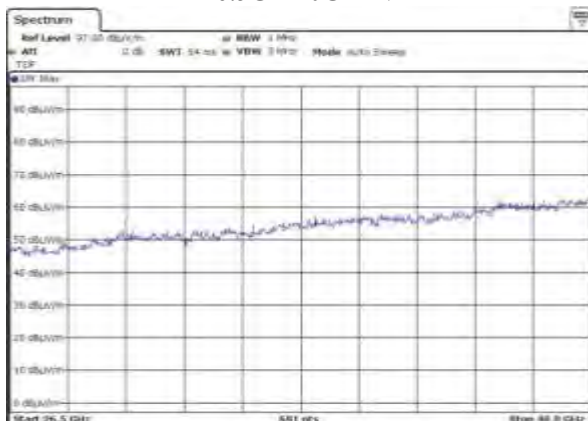
18G – 26.5GHz V



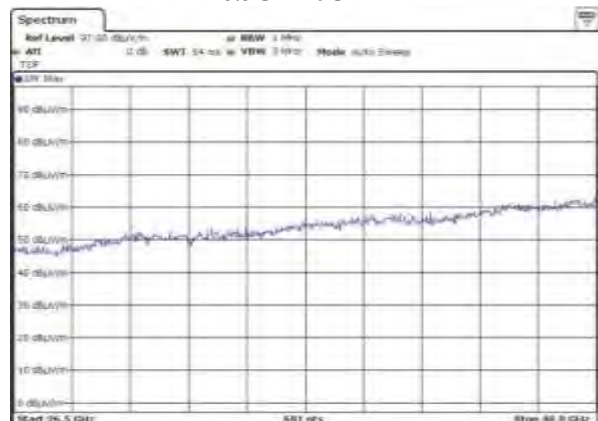
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



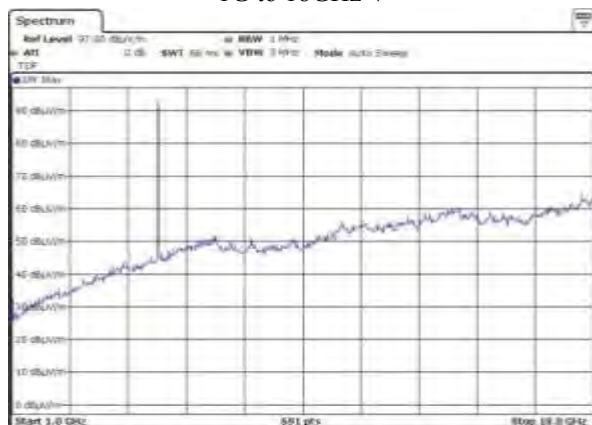
Test Report

Date : 2021-06-08
No. : HM20020027

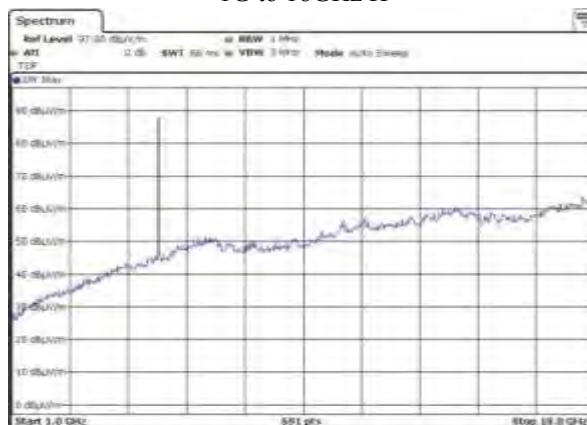
Page 444 of 514

Unwanted emission
802.11n HT20 5280 MHz (CH56)
Antenna option 3

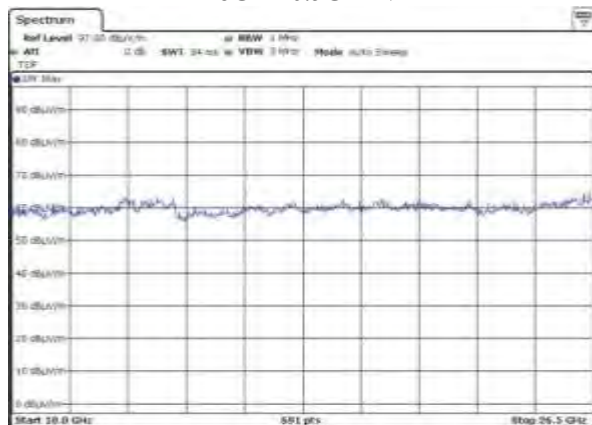
1G to 18GHz V



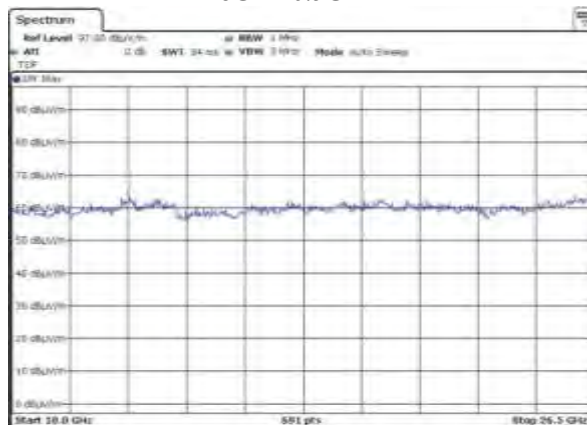
1G to 18GHz H



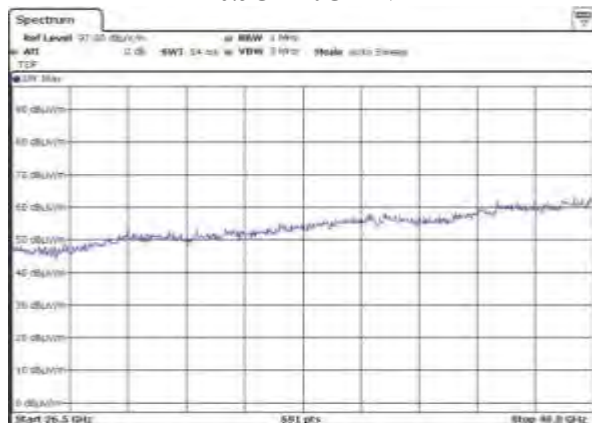
18G – 26.5GHz V



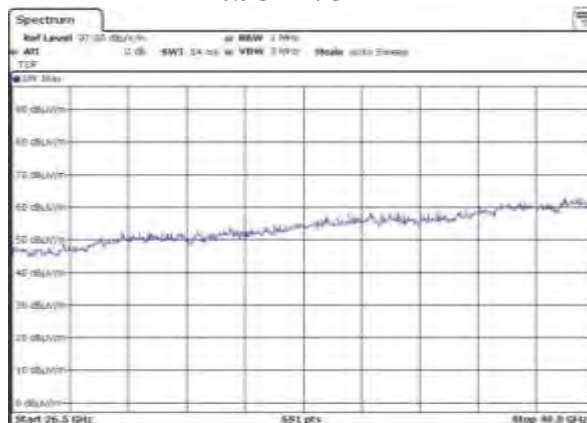
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



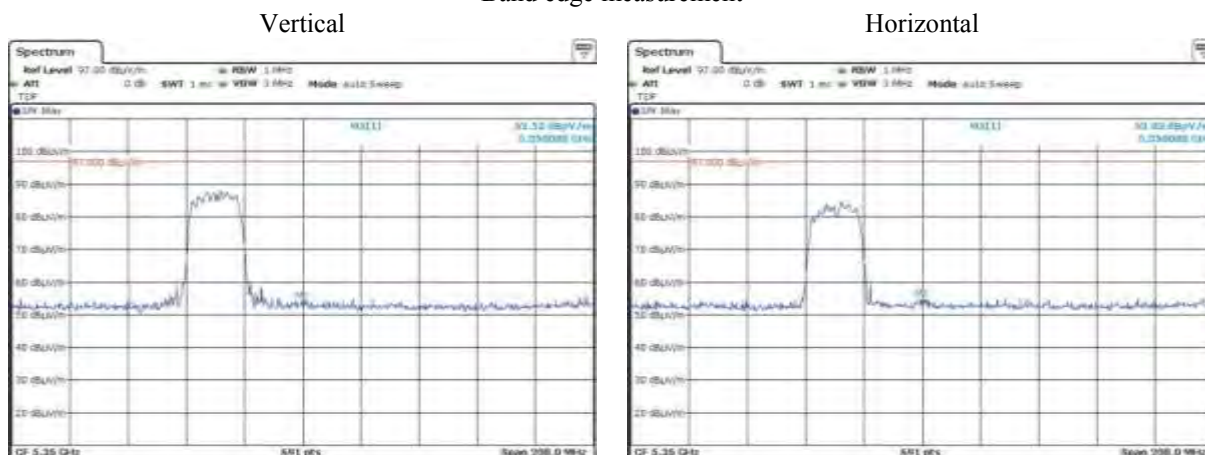
Test Report

Date : 2021-06-08
No. : HM20020027

Page 445 of 514

Unwanted emission
802.11n HT20 5320 MHz (CH64)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	52.5	74.0	-21.5
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	H	PK	1	53.0	74.0	-21.0
5350.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

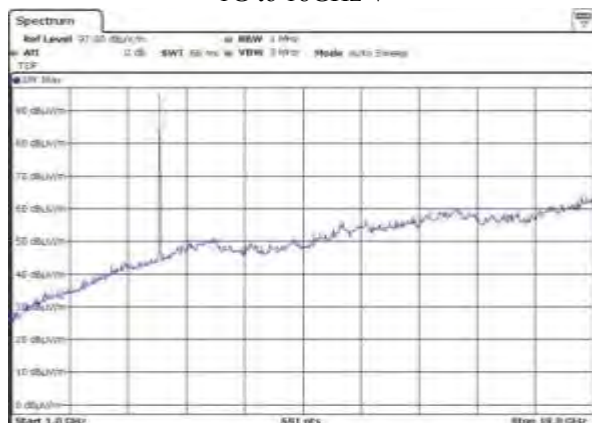
Test Report

Date : 2021-06-08
No. : HM20020027

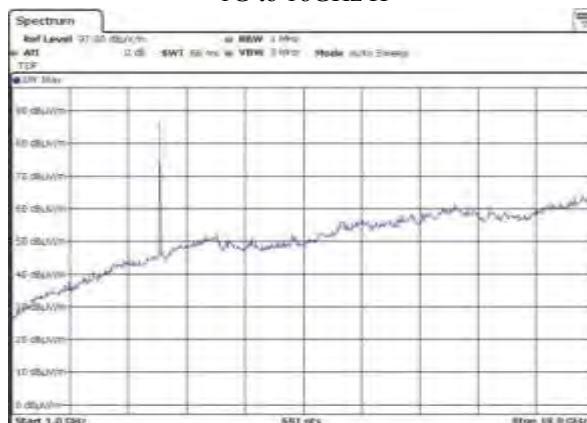
Page 446 of 514

Unwanted emission
802.11n HT20 5320 MHz (CH64)
Antenna option 3

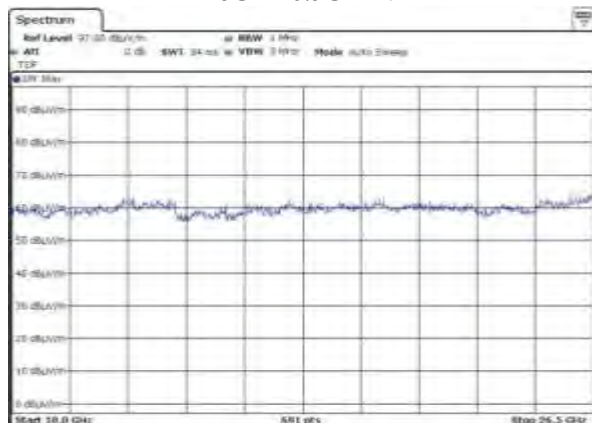
1G to 18GHz V



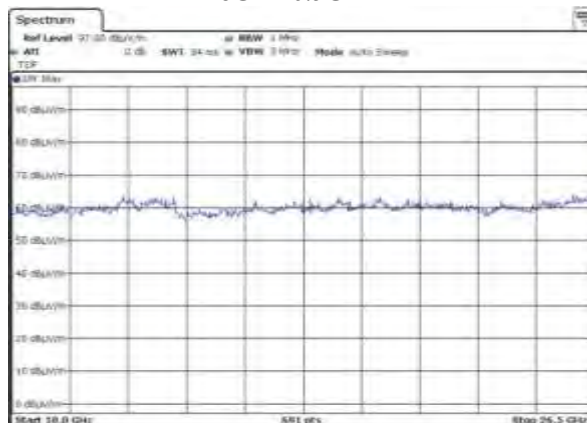
1G to 18GHz H



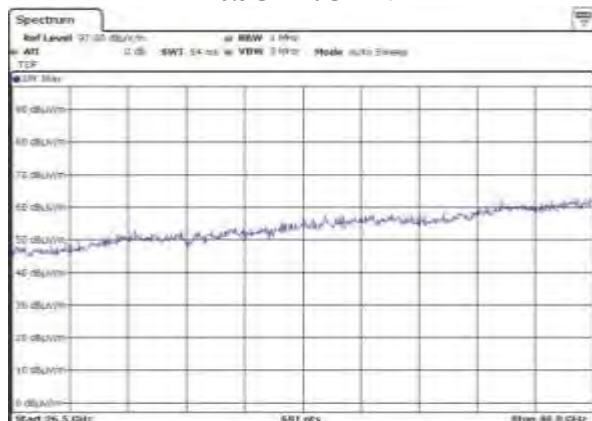
18G – 26.5GHz V



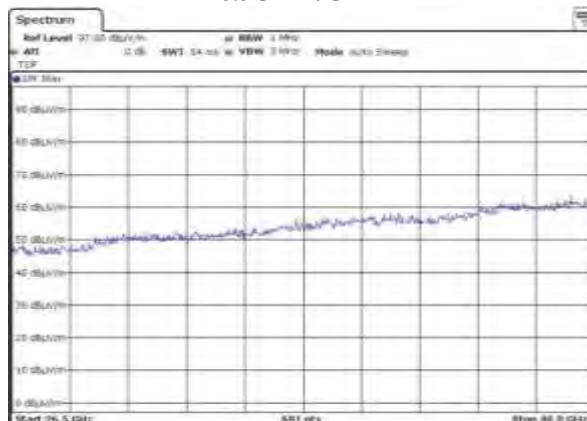
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

Date : 2021-06-08
No. : HM20020027

Page 447 of 514

Unwanted emission
802.11n HT20 5500 MHz (CH100)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	52.8	74.0	-21.2
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	H	PK	1	52.6	74.0	-21.4
5470.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

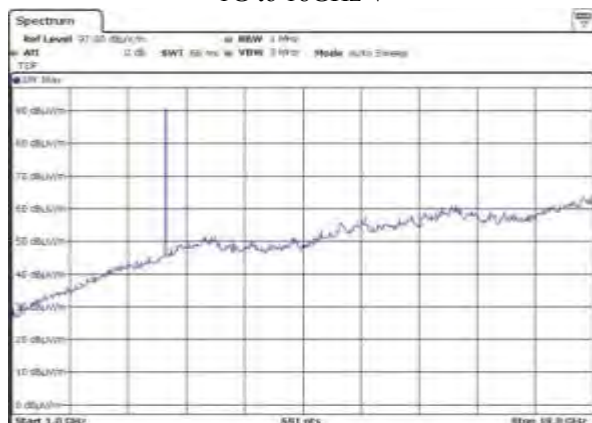
Test Report

Date : 2021-06-08
No. : HM20020027

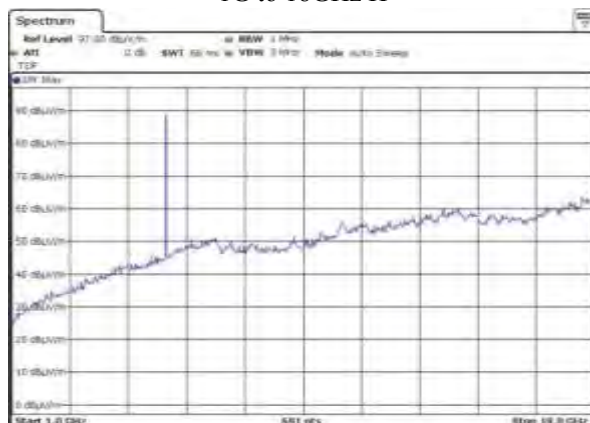
Page 448 of 514

Unwanted emission
802.11n HT20 5500 MHz (CH100)
Antenna option 3

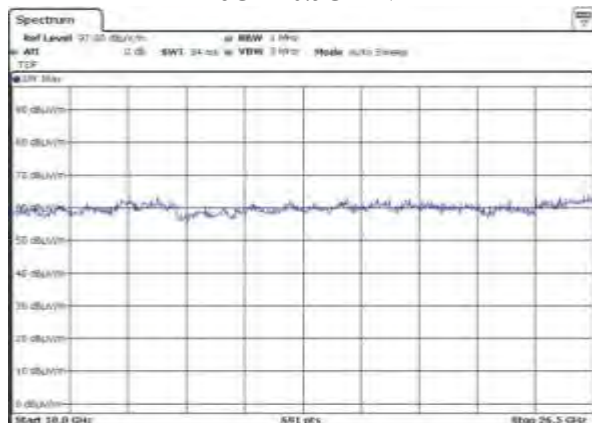
1G to 18GHz V



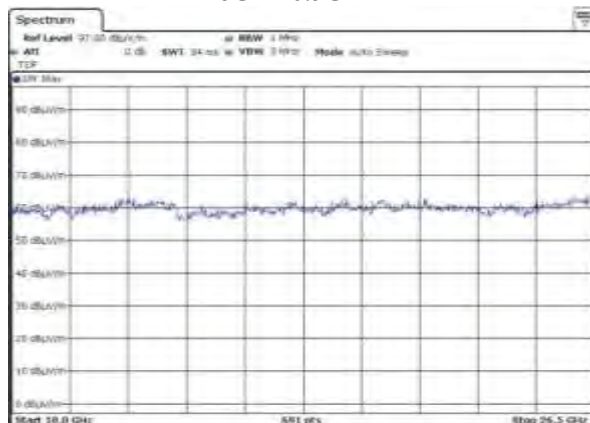
1G to 18GHz H



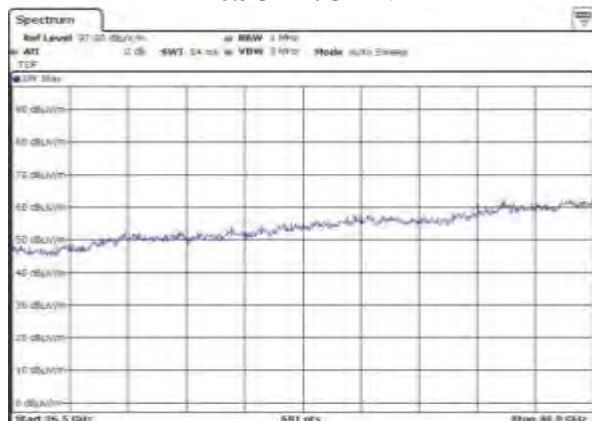
18G – 26.5GHz V



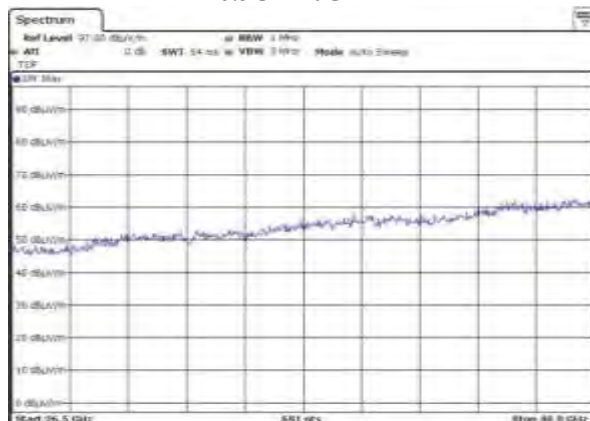
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



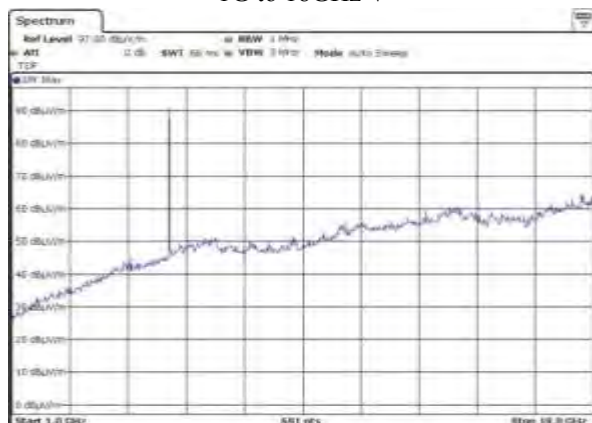
Test Report

Date : 2021-06-08
No. : HM20020027

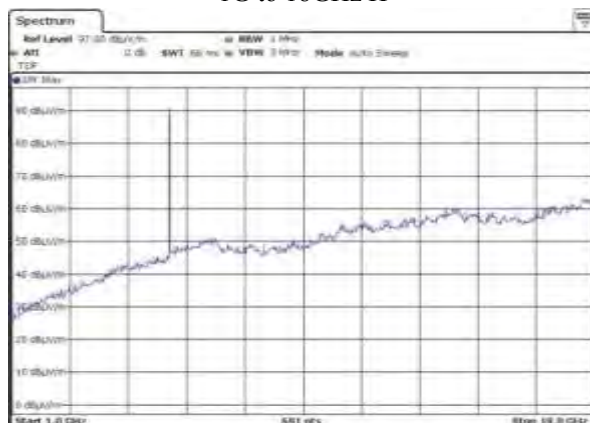
Page 449 of 514

Unwanted emission
802.11n HT20 5600 MHz (CH120)
Antenna option 3

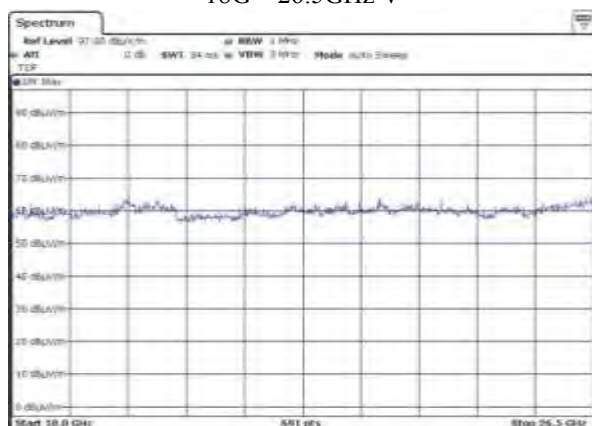
1G to 18GHz V



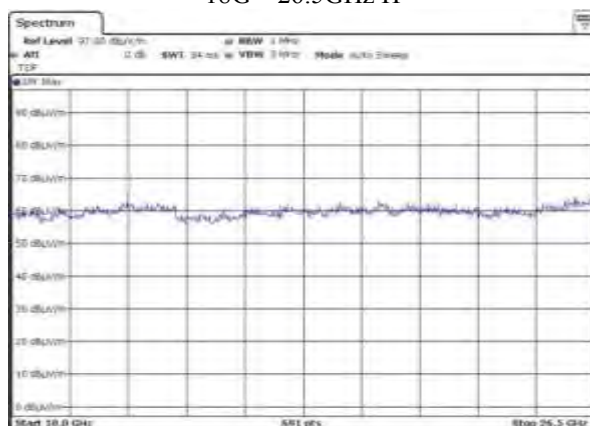
1G to 18GHz H



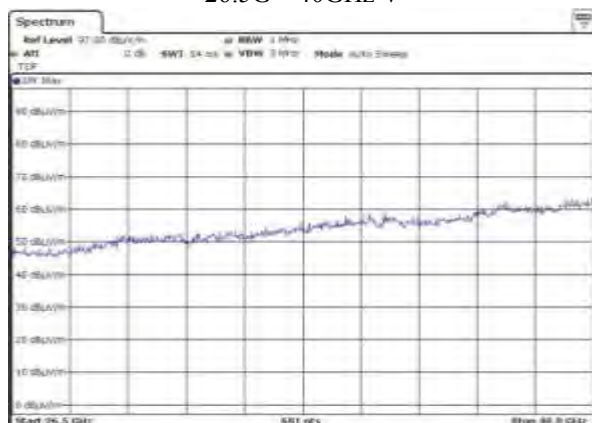
18G – 26.5GHz V



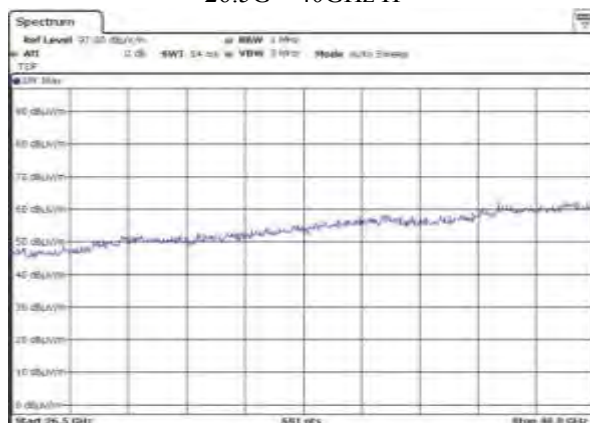
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



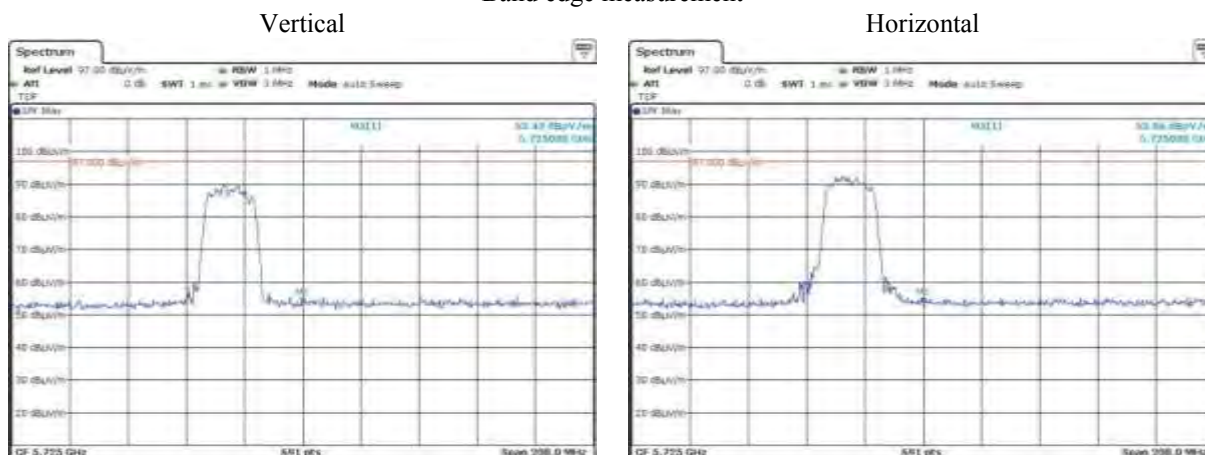
Test Report

Date : 2021-06-08
No. : HM20020027

Page 450 of 514

Unwanted emission
802.11n HT20 5700 MHz (CH140)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	53.4	74.0	-20.6
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	53.7	74.0	-20.3
5725.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

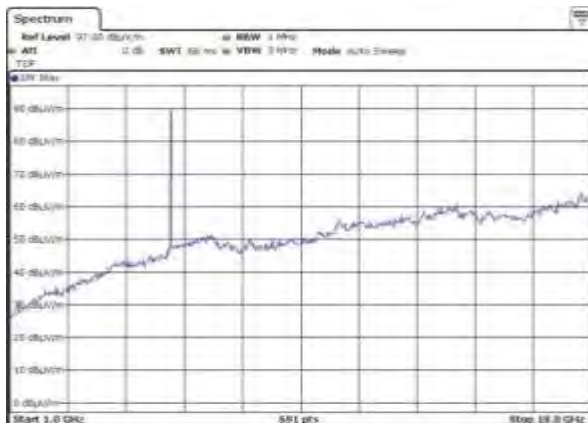
Test Report

Date : 2021-06-08
No. : HM20020027

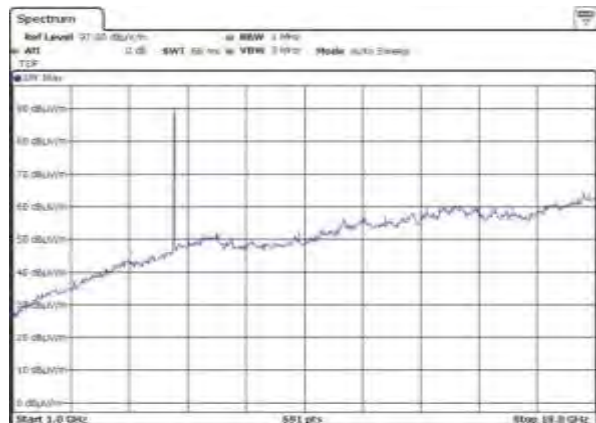
Page 451 of 514

Unwanted emission
802.11n HT20 5700 MHz (CH140)
Antenna option 3

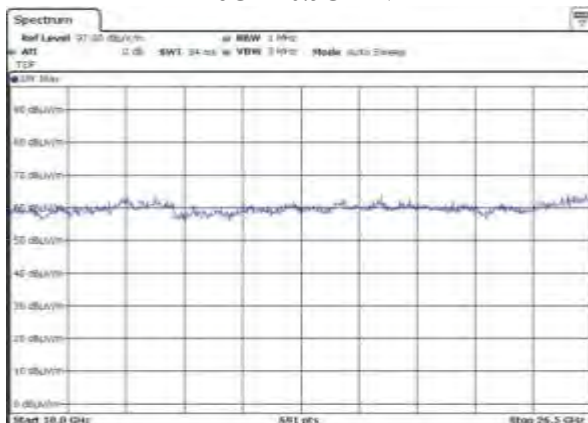
1G to 18GHz V



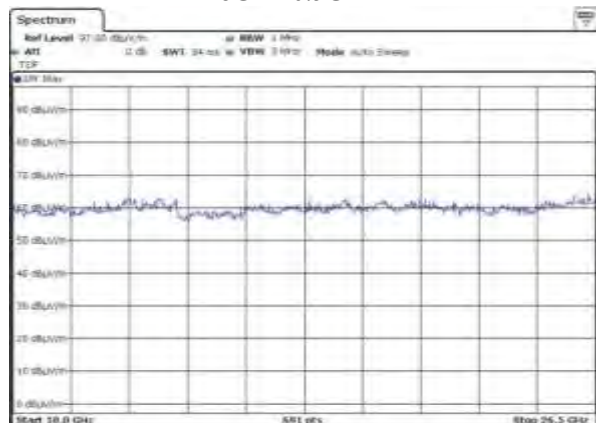
1G to 18GHz H



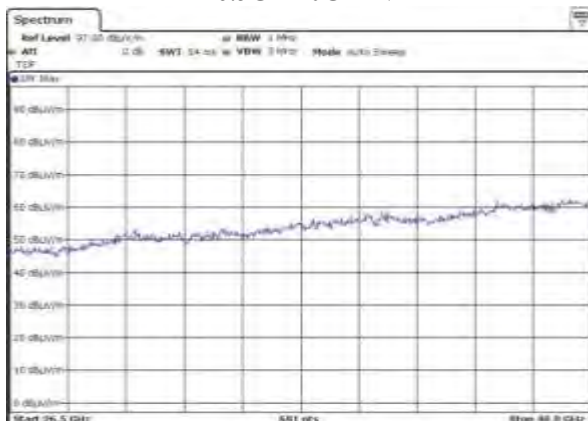
18G – 26.5GHz V



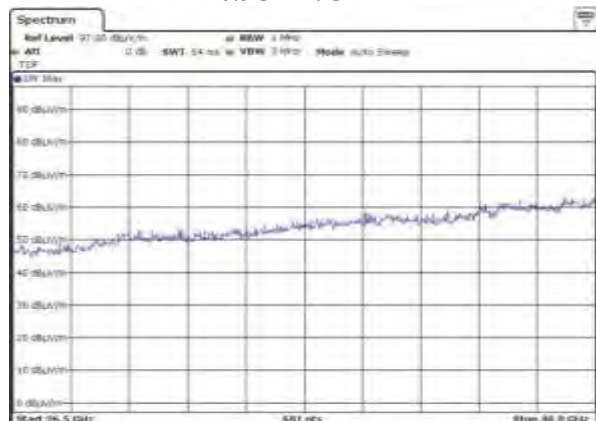
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

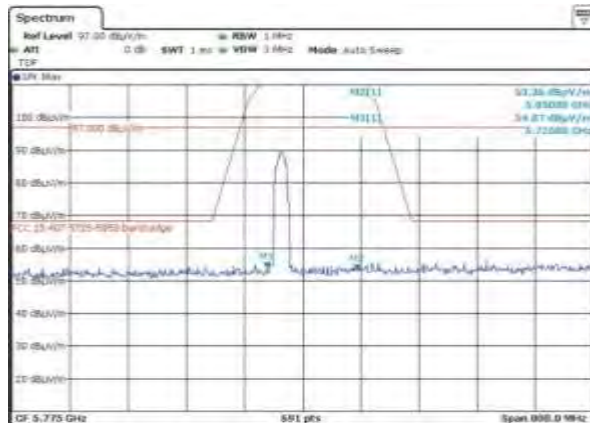
Date : 2021-06-08
No. : HM20020027

Page 452 of 514

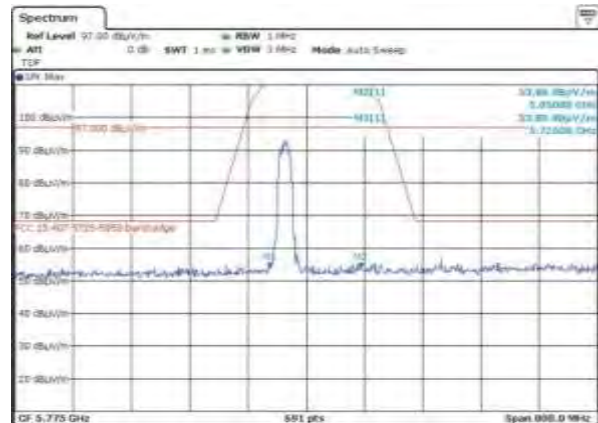
Unwanted emission
802.11n HT20 5745 MHz (CH149)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

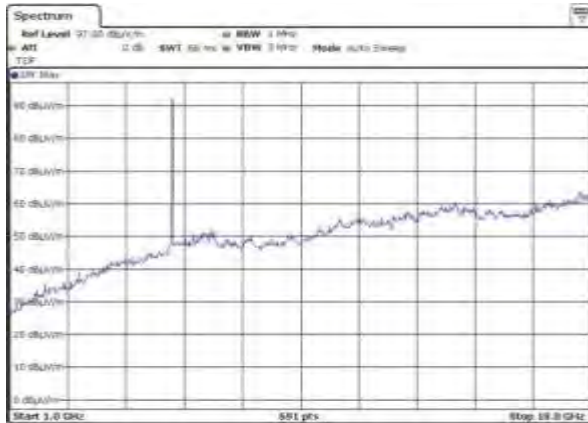
Test Report

Date : 2021-06-08
No. : HM20020027

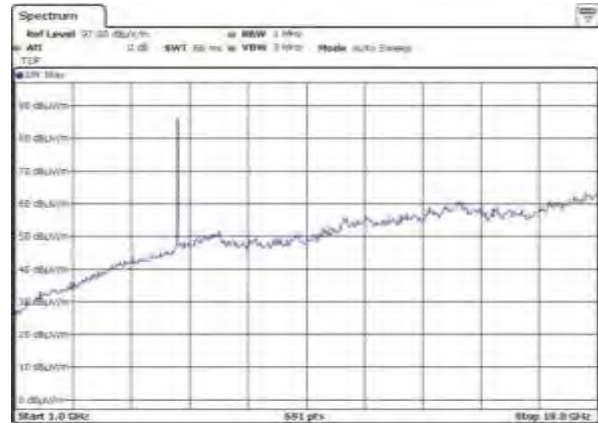
Page 453 of 514

Unwanted emission
802.11n HT20 5745 MHz (CH149)
Antenna option 3

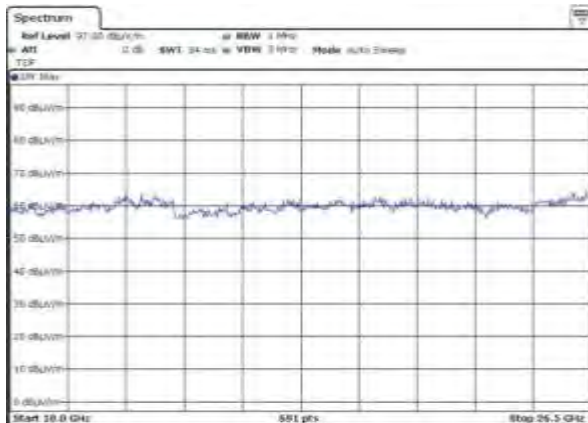
1G to 18GHz V



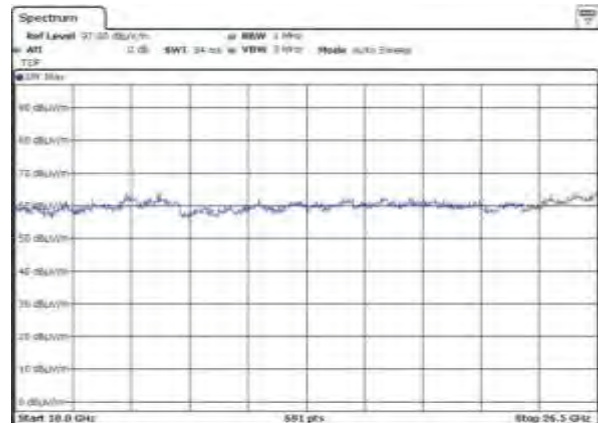
1G to 18GHz H



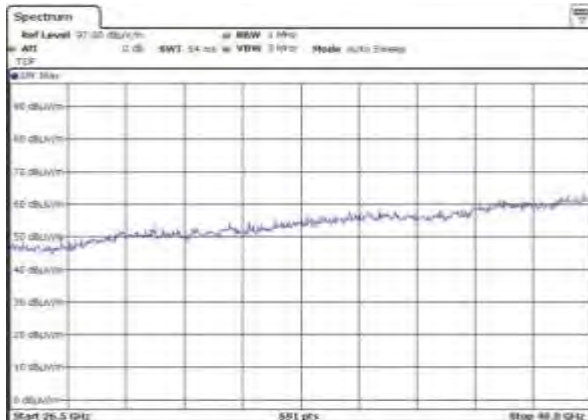
18G – 26.5GHz V



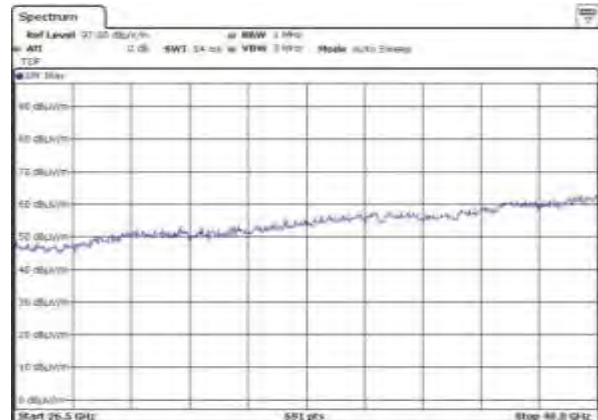
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



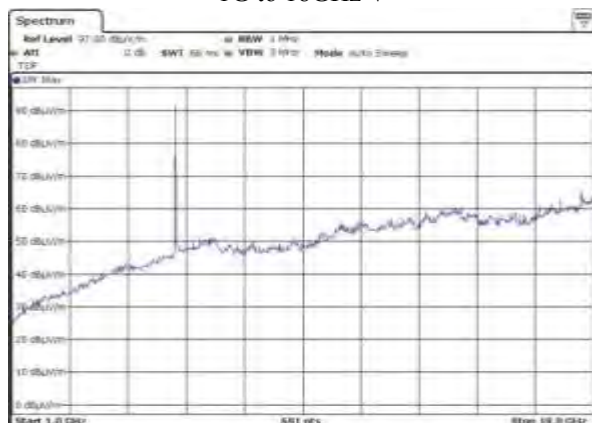
Test Report

Date : 2021-06-08
No. : HM20020027

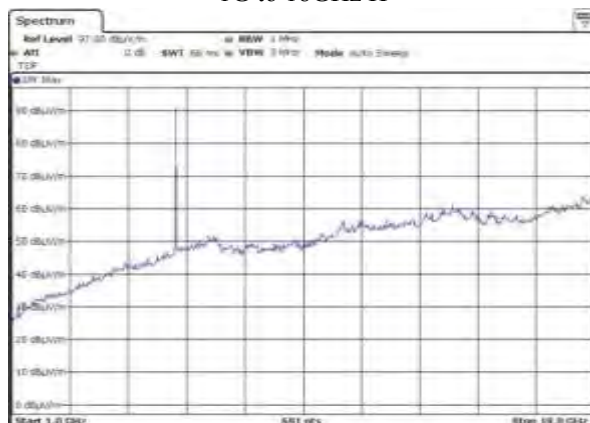
Page 454 of 514

Unwanted emission
802.11n HT20 5785 MHz (CH157)
Antenna option 3

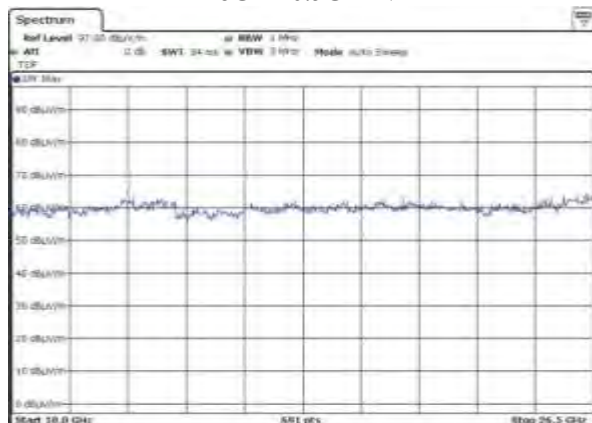
1G to 18GHz V



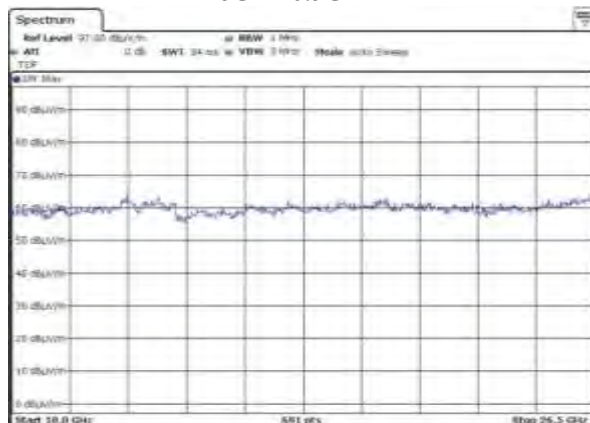
1G to 18GHz H



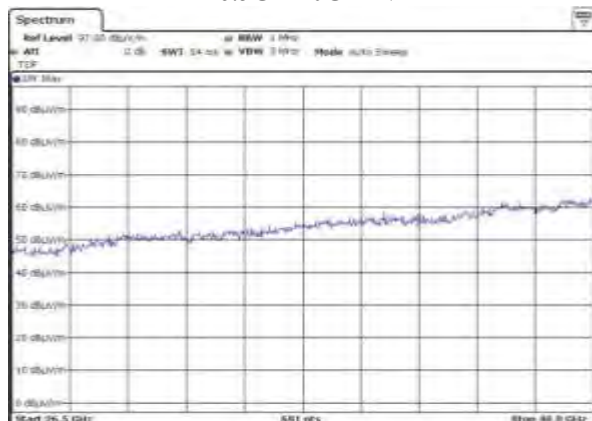
18G – 26.5GHz V



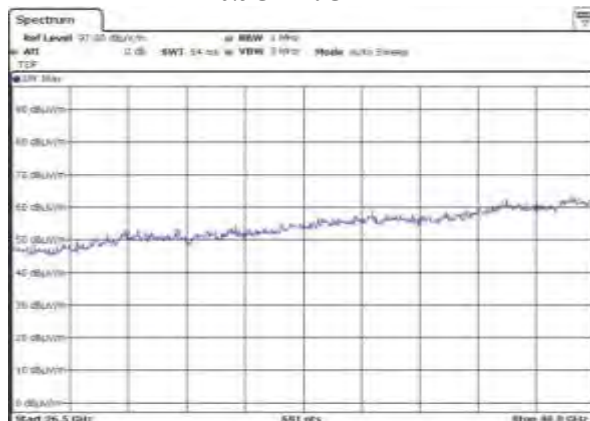
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

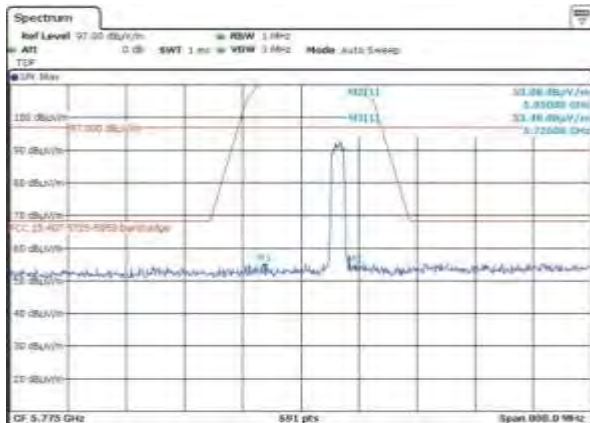
Date : 2021-06-08
No. : HM20020027

Page 455 of 514

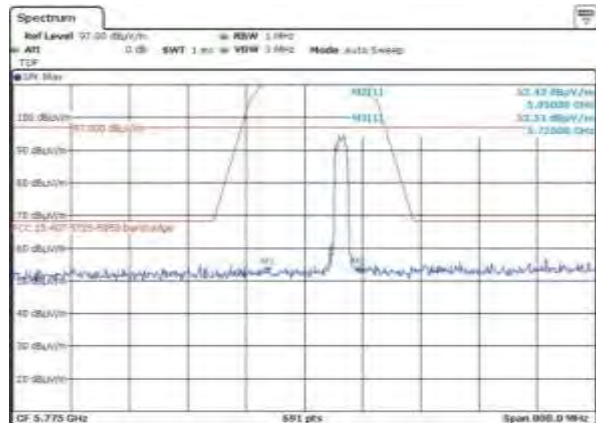
Unwanted emission
802.11n HT20 5825 MHz (CH165)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

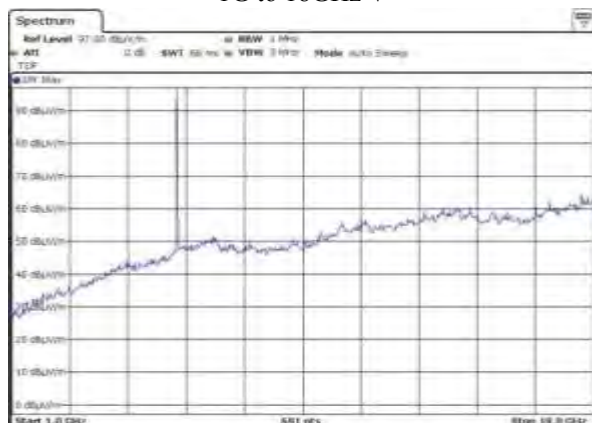
Test Report

Date : 2021-06-08
No. : HM20020027

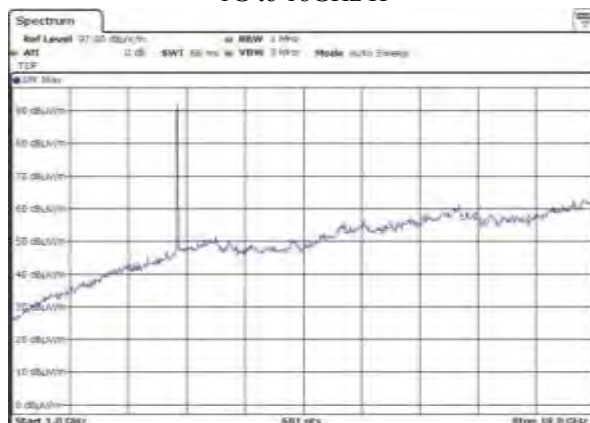
Page 456 of 514

Unwanted emission
802.11n HT20 5825 MHz (CH165)
Antenna option 3

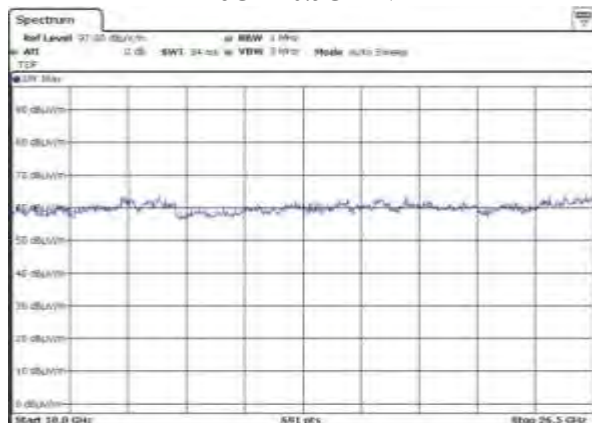
1G to 18GHz V



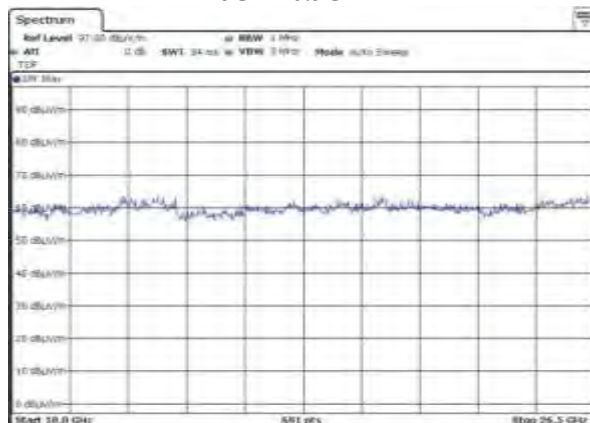
1G to 18GHz H



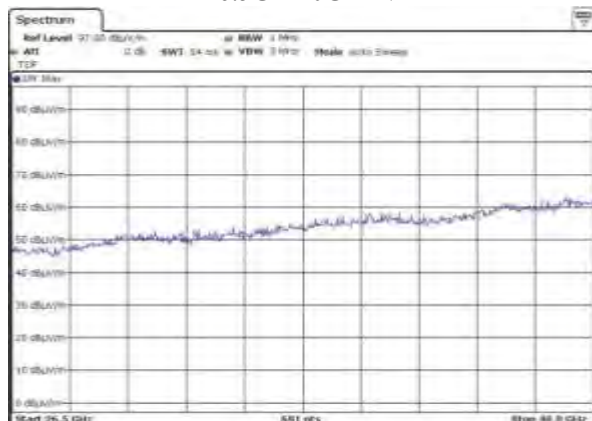
18G – 26.5GHz V



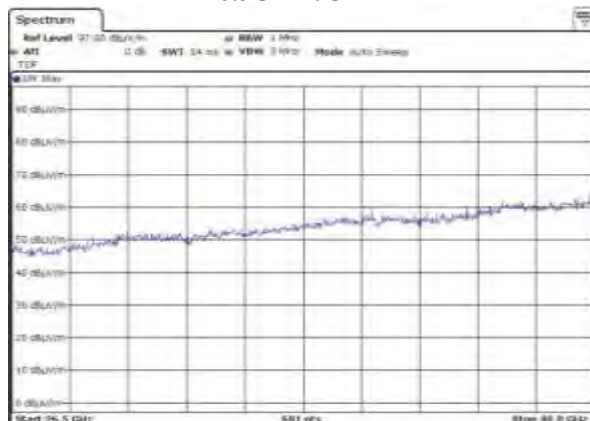
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

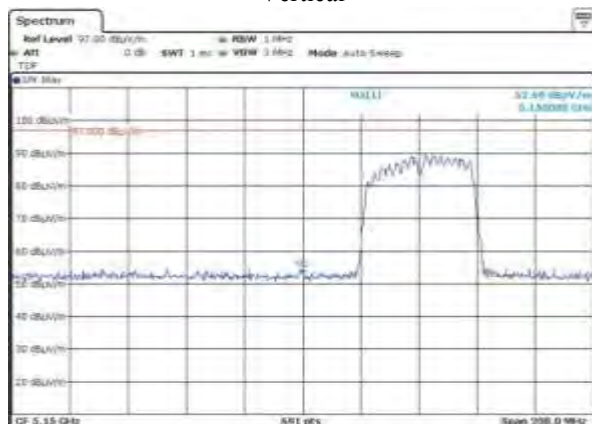
Date : 2021-06-08
No. : HM20020027

Page 457 of 514

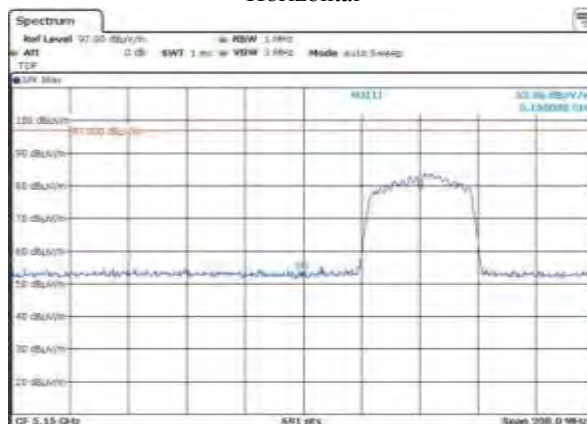
Unwanted emission
802.11n HT40 5190 MHz (CH38)
Antenna option 3

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5150.0	V	PK	1	52.7	74.0	-21.3
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	H	PK	1	52.1	74.0	-21.9
5150.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

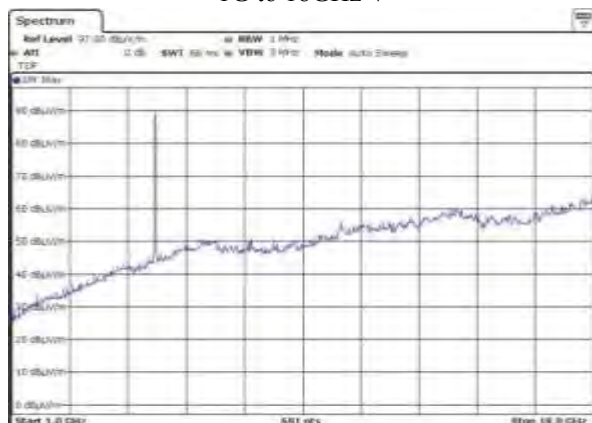
Test Report

Date : 2021-06-08
No. : HM20020027

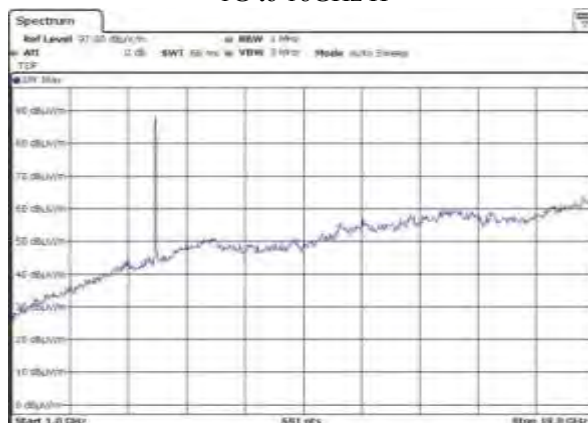
Page 458 of 514

Unwanted emission
802.11n HT40 5190 MHz (CH38)
Antenna option 3

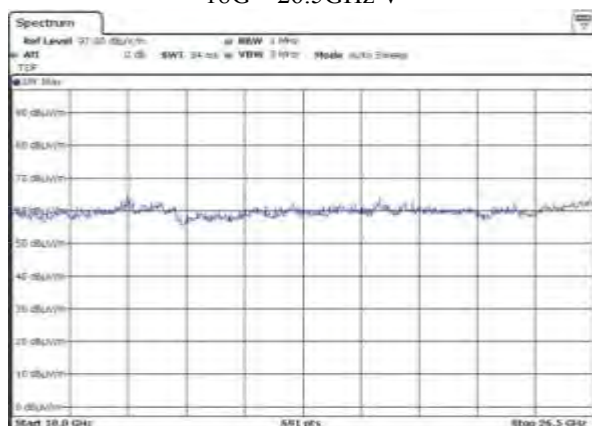
1G to 18GHz V



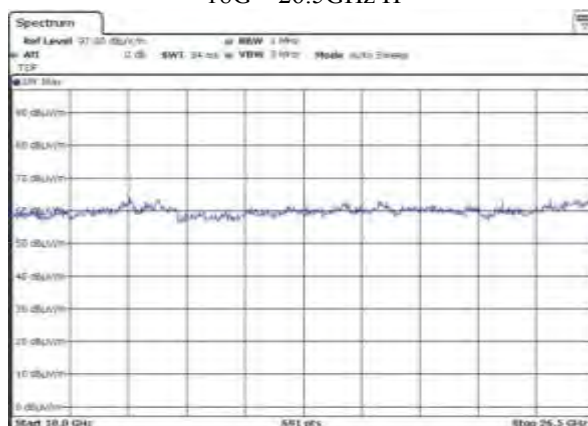
1G to 18GHz H



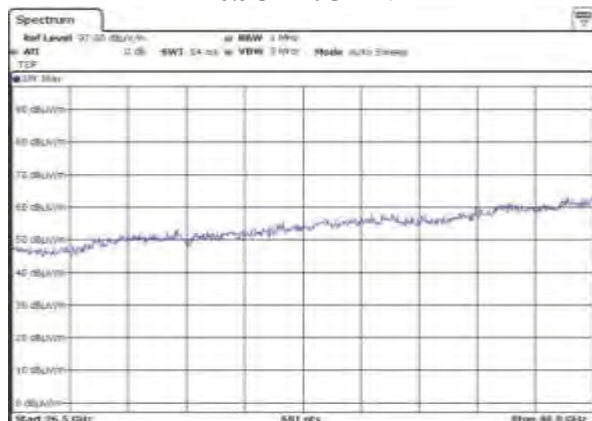
18G – 26.5GHz V



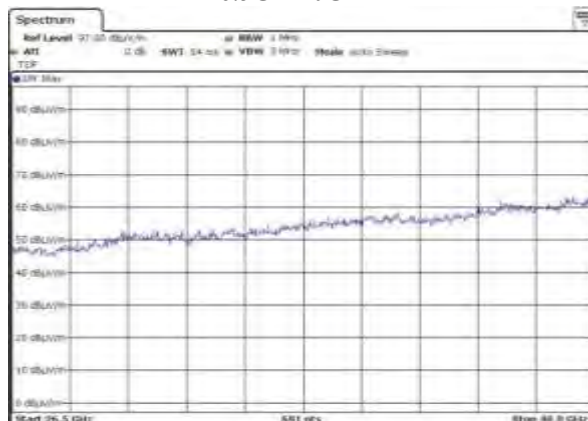
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



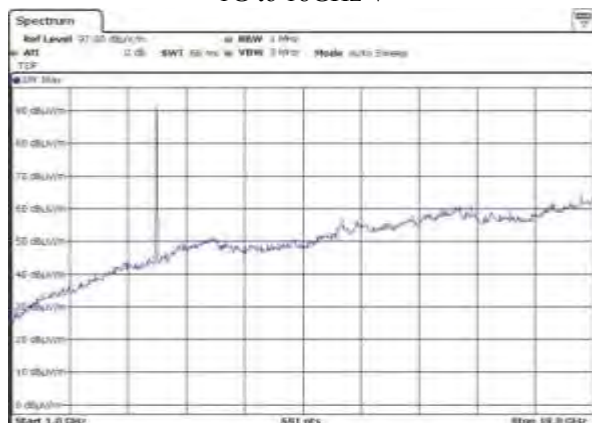
Test Report

Date : 2021-06-08
No. : HM20020027

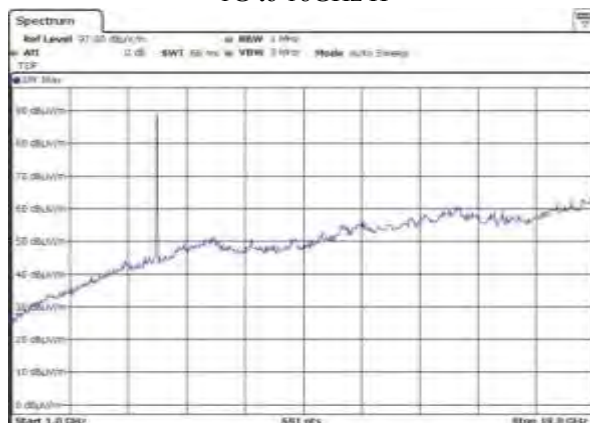
Page 459 of 514

Unwanted emission
802.11n HT40 5230 MHz (CH46)
Antenna option 3

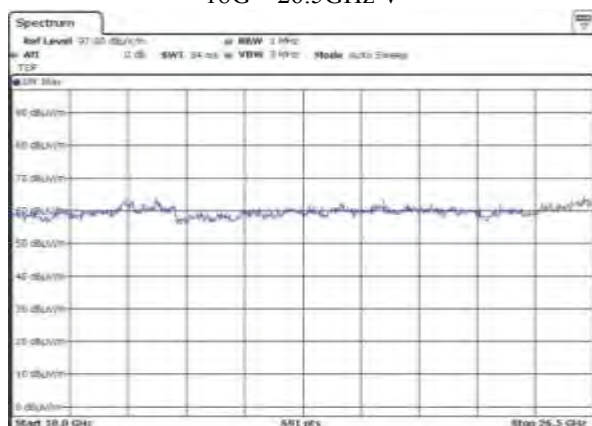
1G to 18GHz V



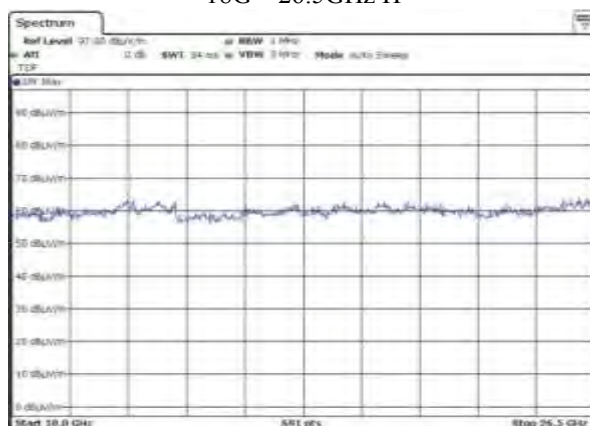
1G to 18GHz H



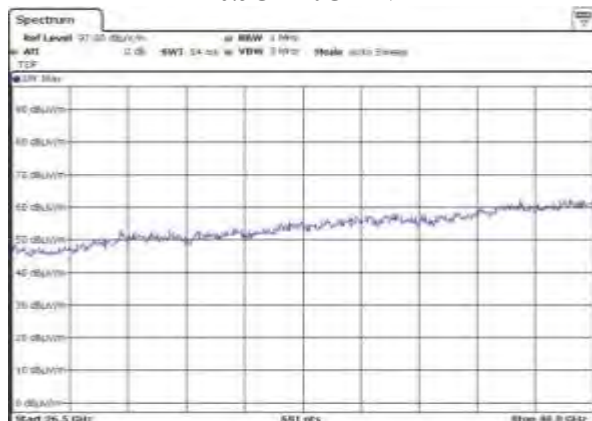
18G – 26.5GHz V



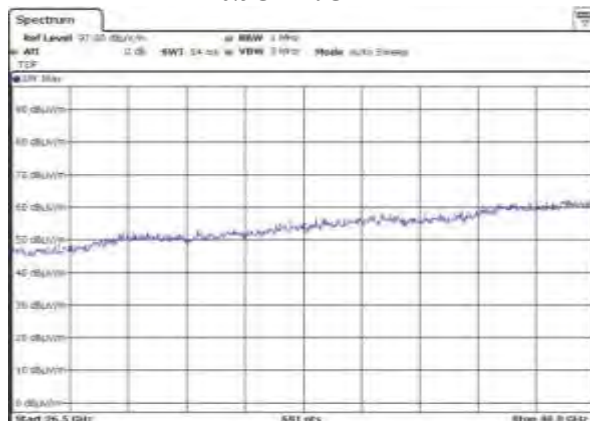
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



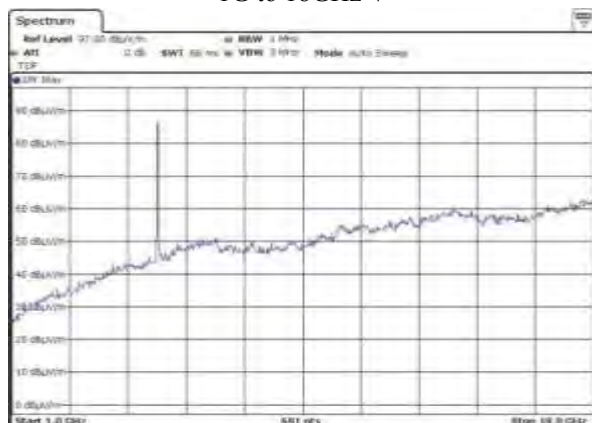
Test Report

Date : 2021-06-08
No. : HM20020027

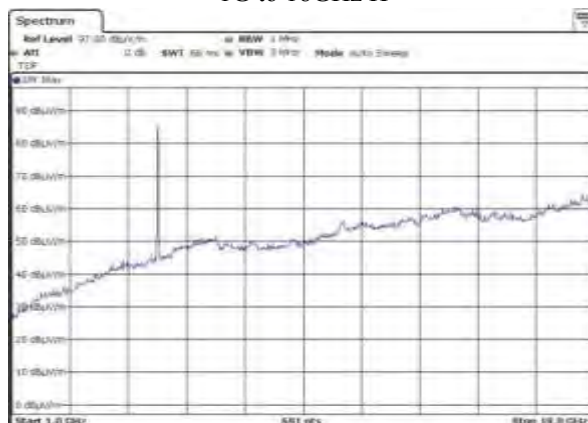
Page 460 of 514

Unwanted emission
802.11n HT40 5270 MHz (CH54)
Antenna option 3

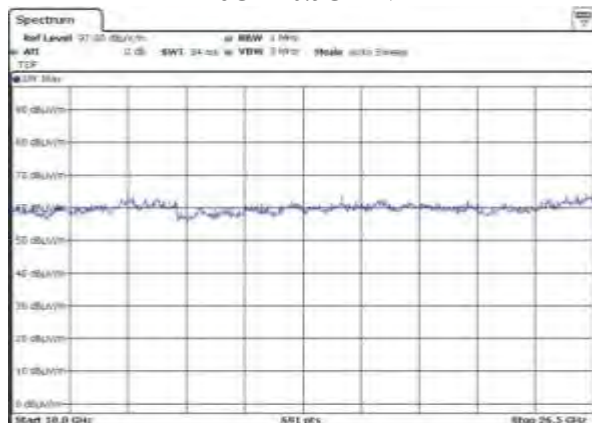
1G to 18GHz V



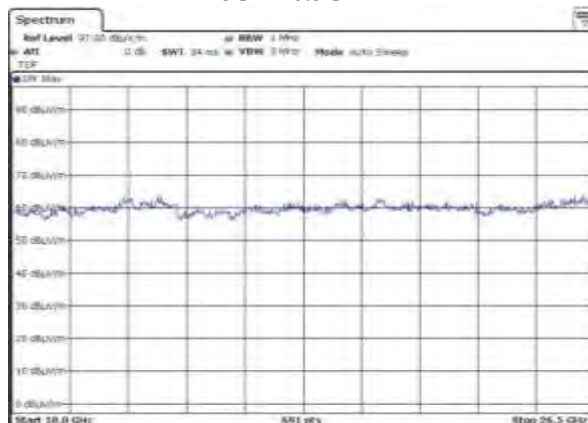
1G to 18GHz H



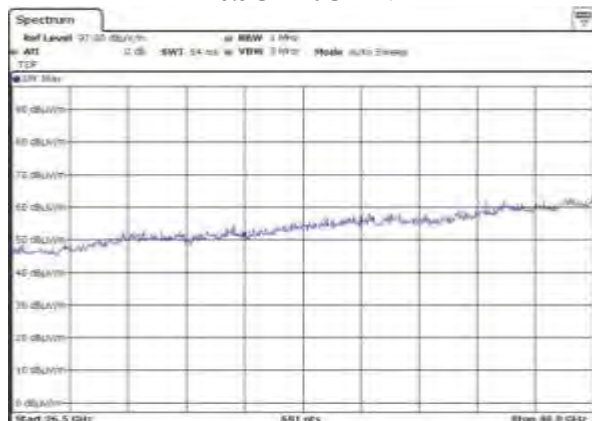
18G – 26.5GHz V



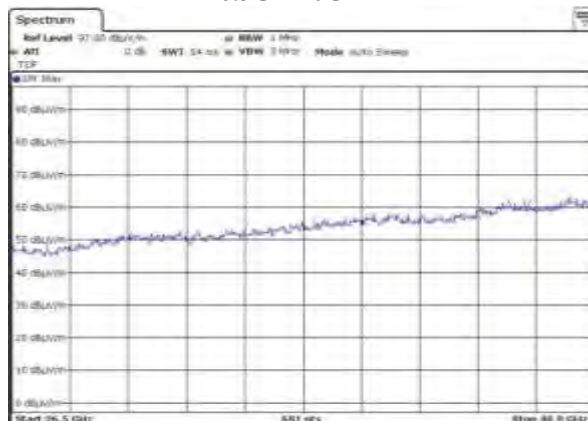
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



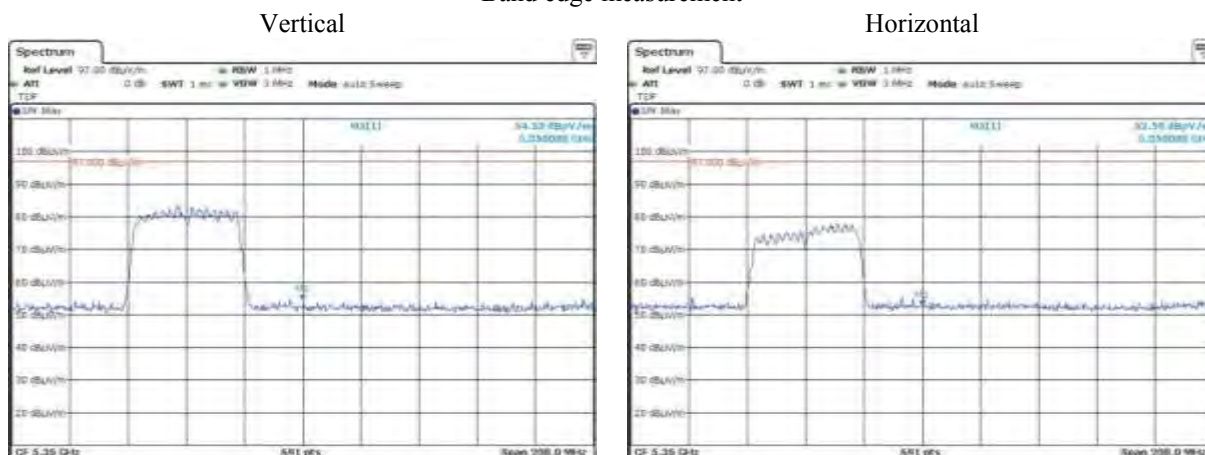
Test Report

Date : 2021-06-08
No. : HM20020027

Page 461 of 514

Unwanted emission
802.11n HT40 5310 MHz (CH62)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	54.5	74.0	-19.5
5350.0	V	AV	1	44.8	54.0	-9.2
5350.0	H	PK	1	52.6	74.0	-21.4
5350.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

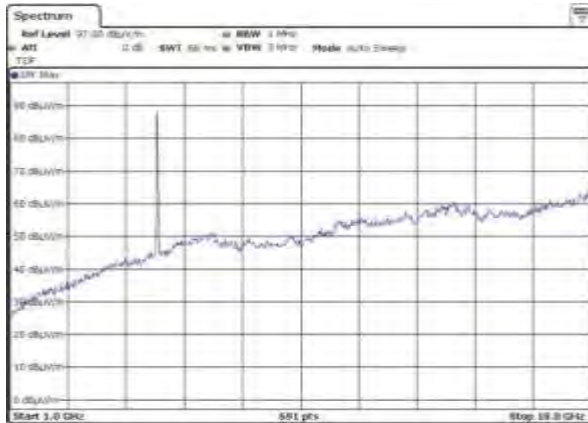
Test Report

Date : 2021-06-08
No. : HM20020027

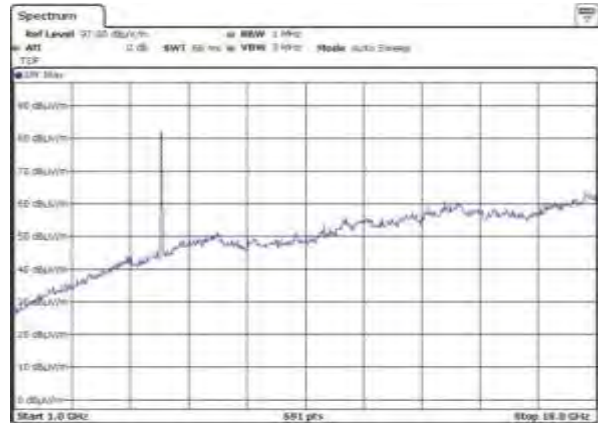
Page 462 of 514

Unwanted emission
802.11n HT40 5310 MHz (CH62)
Antenna option 3

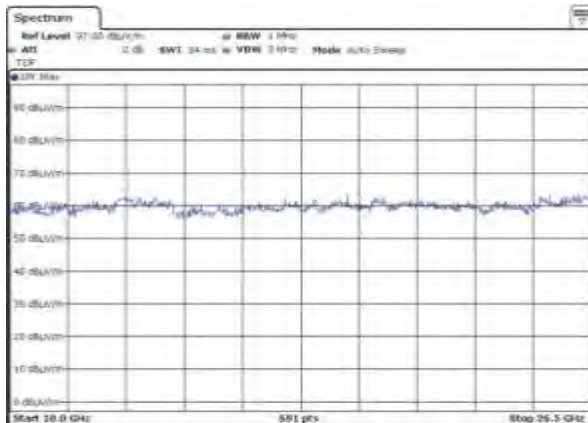
1G to 18GHz V



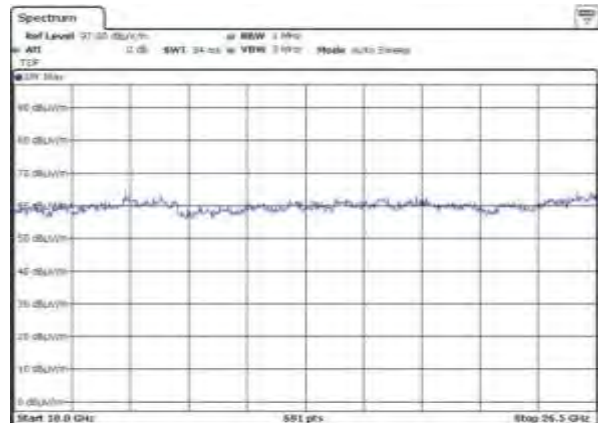
1G to 18GHz H



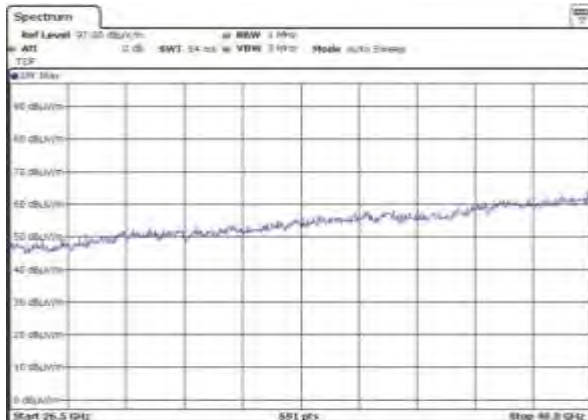
18G – 26.5GHz V



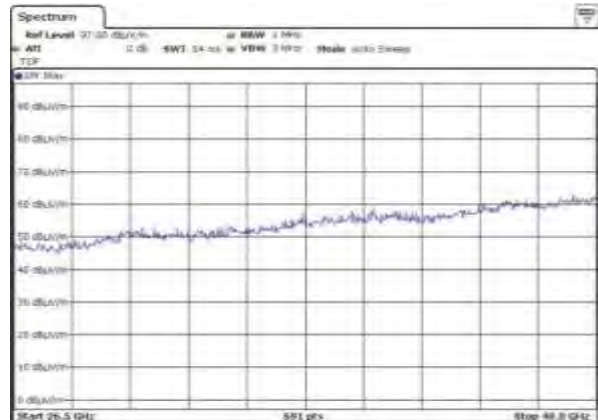
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



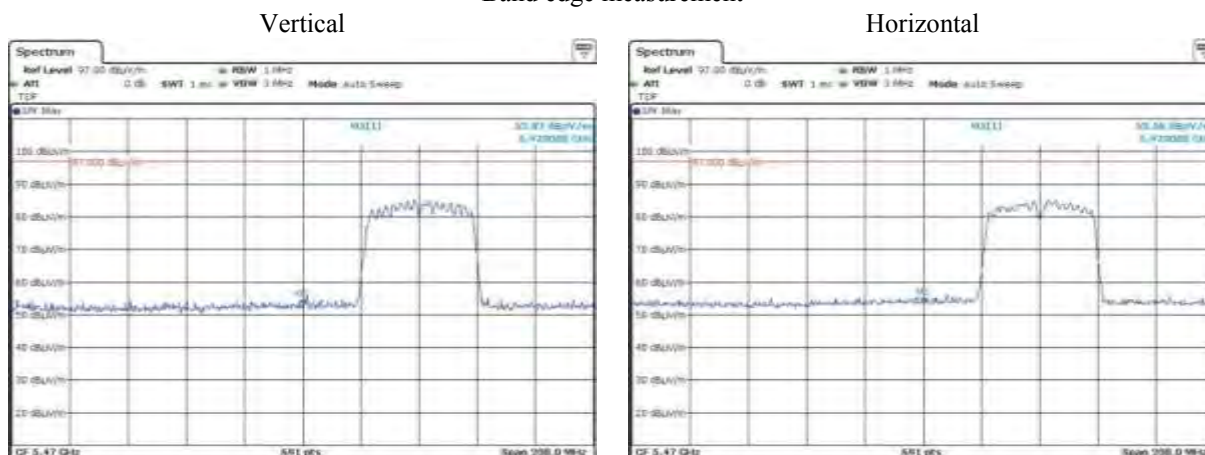
Test Report

Date : 2021-06-08
No. : HM20020027

Page 463 of 514

Unwanted emission
802.11n HT40 5510 MHz (CH102)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	52.7	74.0	-21.3
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	H	PK	1	53.2	74.0	-20.8
5470.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

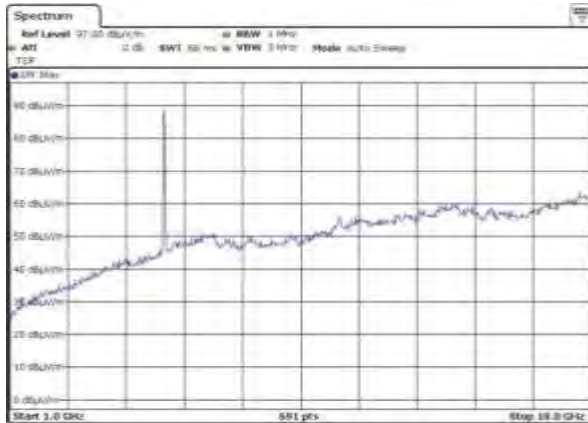
Test Report

Date : 2021-06-08
No. : HM20020027

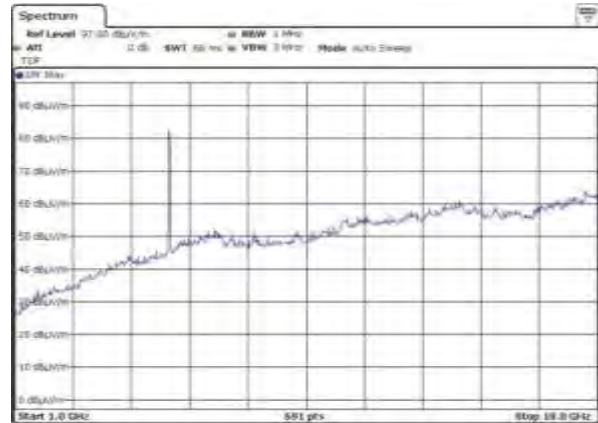
Page 464 of 514

Unwanted emission
802.11n HT40 5510 MHz (CH102)
Antenna option 3

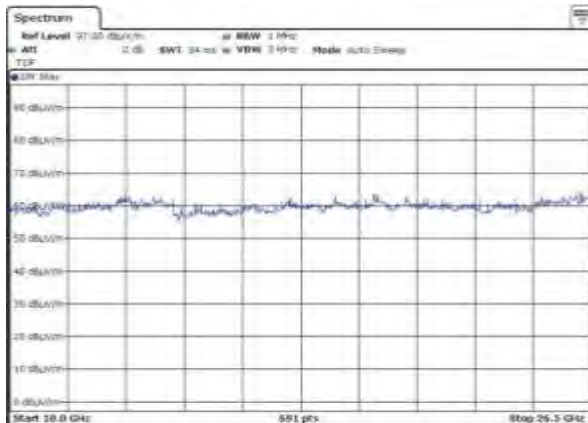
1G to 18GHz V



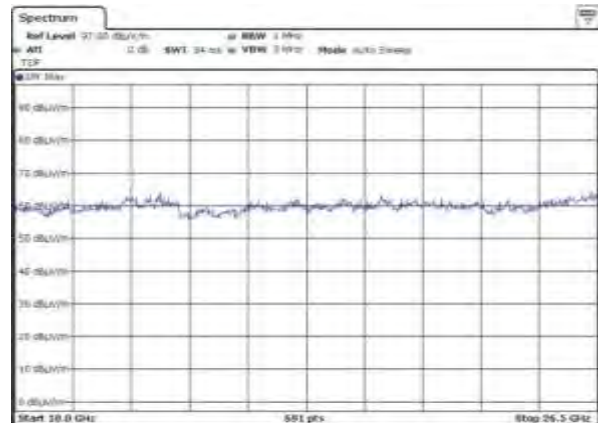
1G to 18GHz H



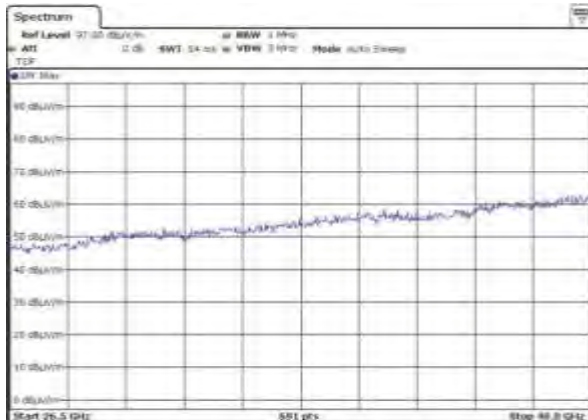
18G – 26.5GHz V



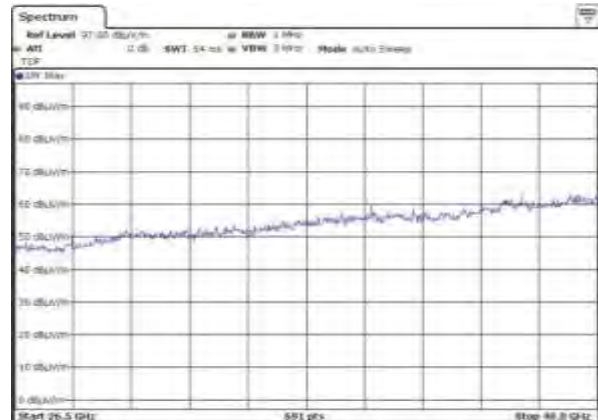
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



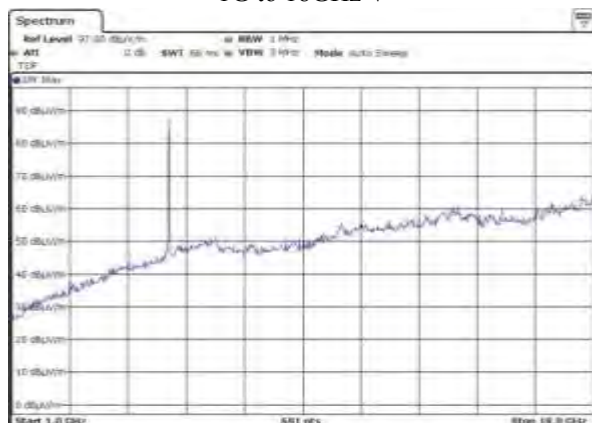
Test Report

Date : 2021-06-08
No. : HM20020027

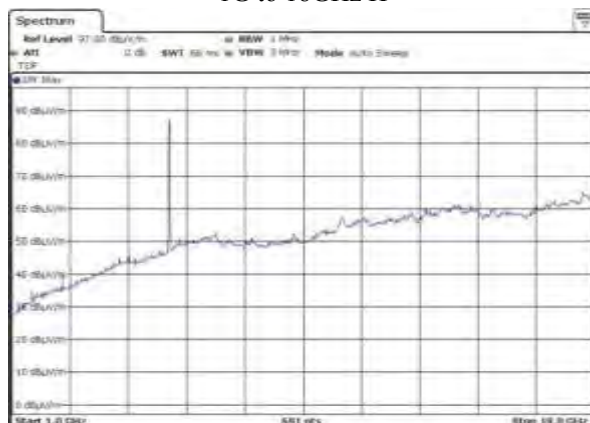
Page 465 of 514

Unwanted emission
802.11n HT40 5590 MHz (CH118)
Antenna option 3

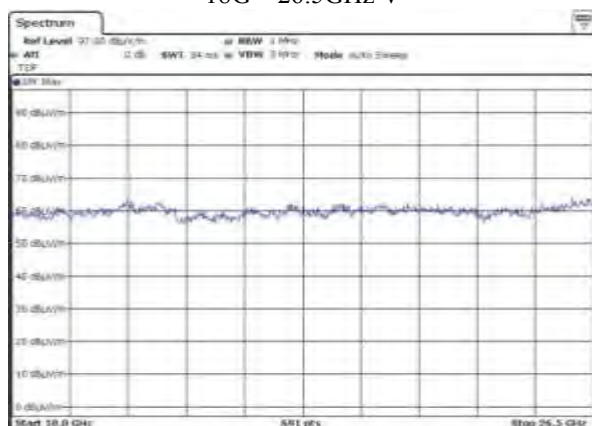
1G to 18GHz V



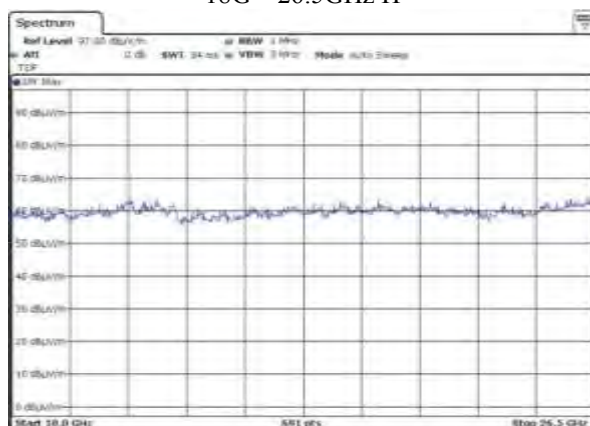
1G to 18GHz H



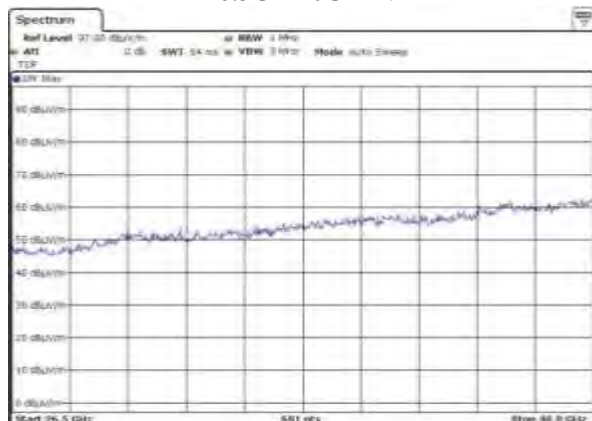
18G – 26.5GHz V



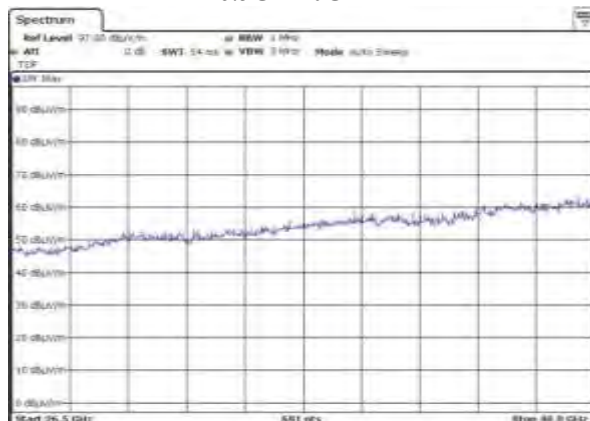
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

Date : 2021-06-08
No. : HM20020027

Page 466 of 514

Unwanted emission
802.11n HT40 5670 MHz (CH134)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	53.8	74.0	-20.2
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	54.0	74.0	-20.0
5725.0	H	AV	1	43.8	54.0	-10.2

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

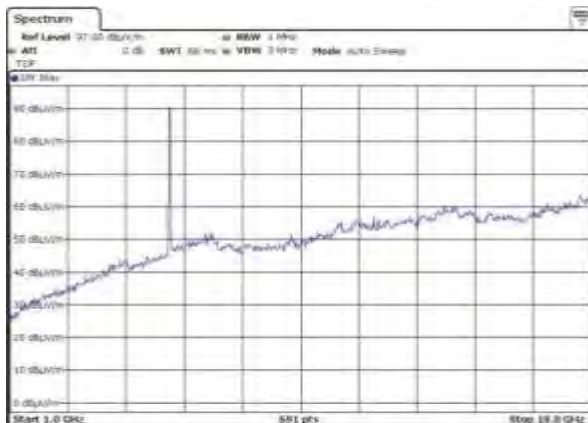
Test Report

Date : 2021-06-08
No. : HM20020027

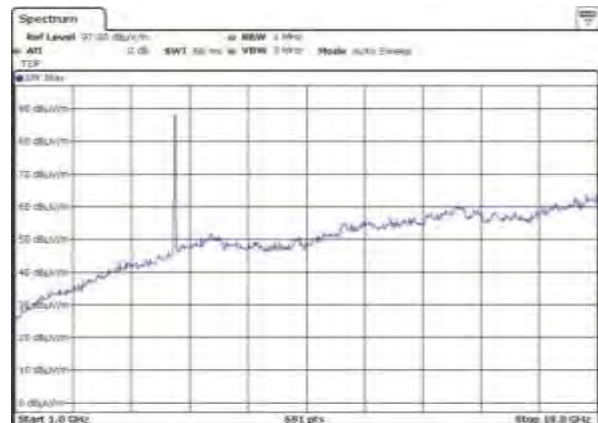
Page 467 of 514

Unwanted emission
802.11n HT40 5670 MHz (CH134)
Antenna option 3

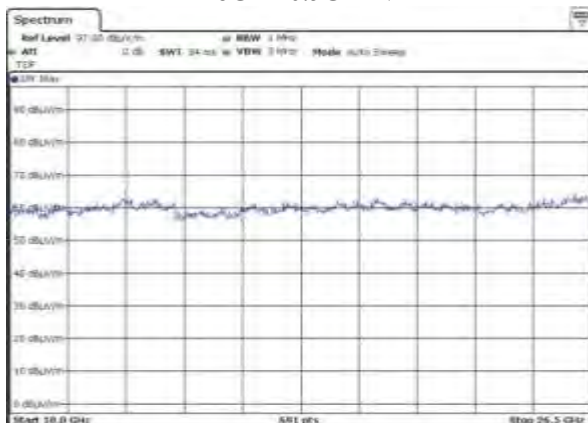
1G to 18GHz V



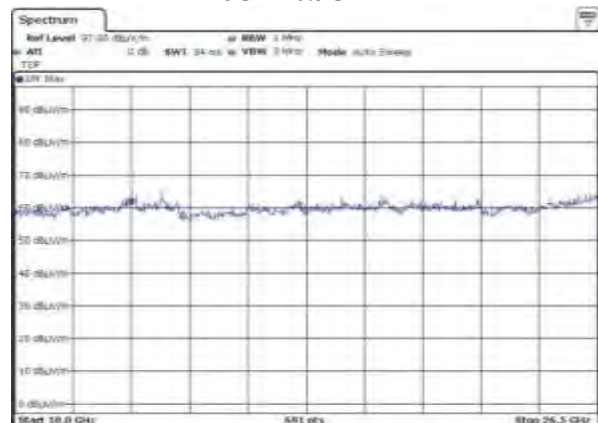
1G to 18GHz H



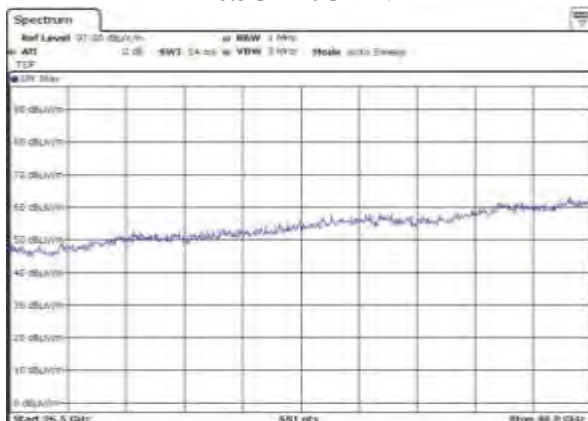
18G – 26.5GHz V



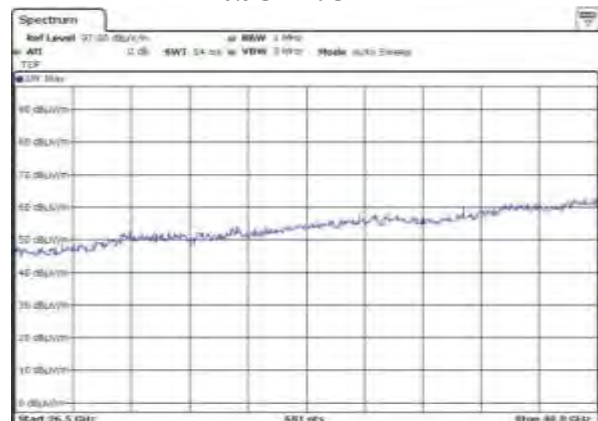
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

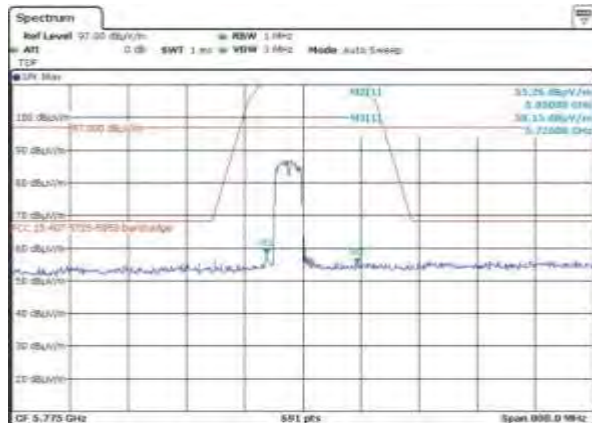
Date : 2021-06-08
No. : HM20020027

Page 468 of 514

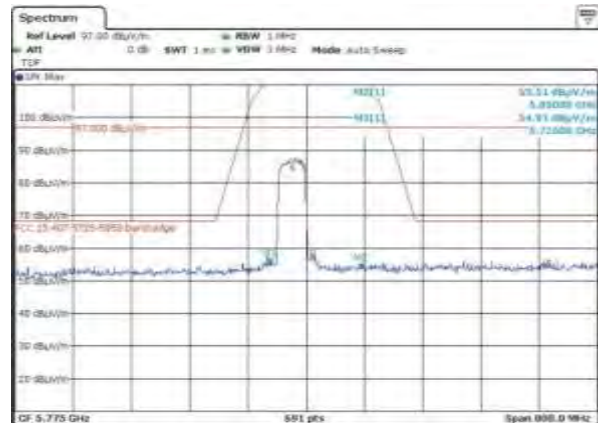
Unwanted emission
802.11n HT40 5755 MHz (CH151)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

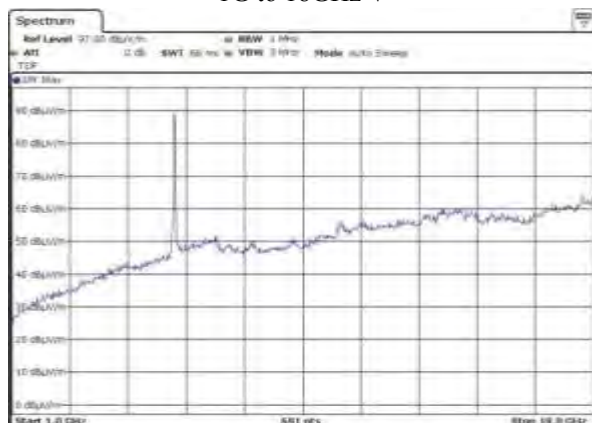
Test Report

Date : 2021-06-08
No. : HM20020027

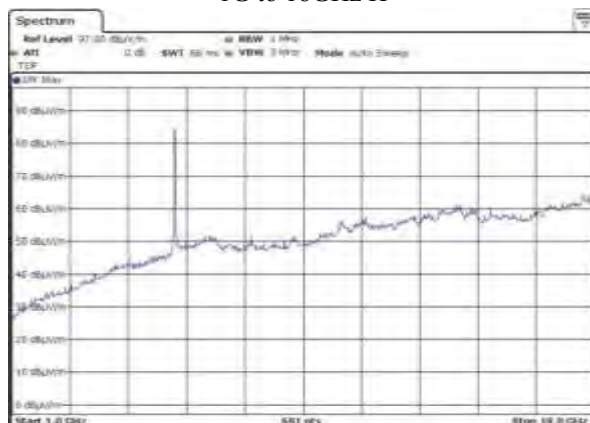
Page 469 of 514

Unwanted emission
802.11n HT40 5755 MHz (CH151)
Antenna option 3

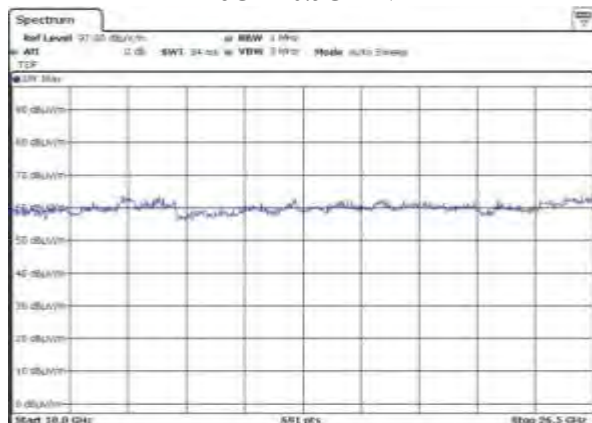
1G to 18GHz V



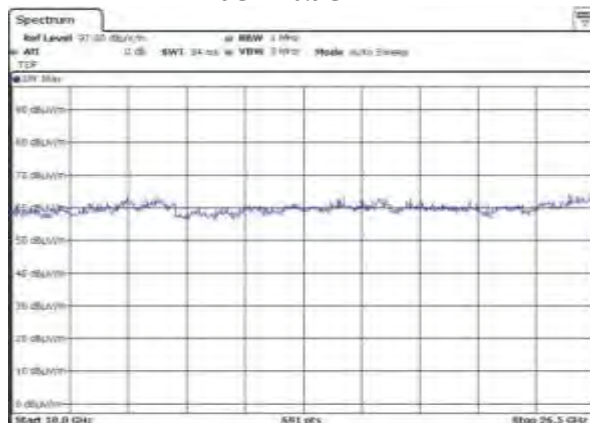
1G to 18GHz H



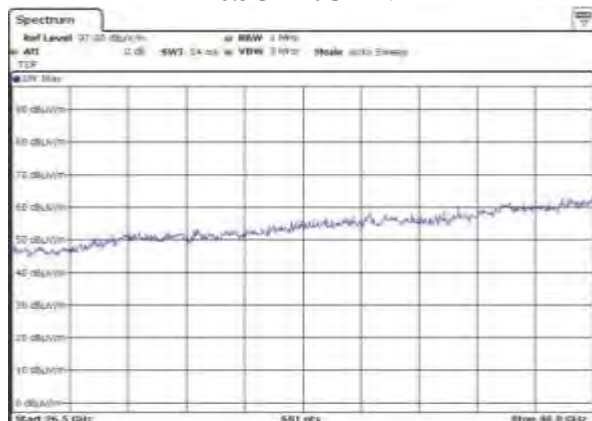
18G – 26.5GHz V



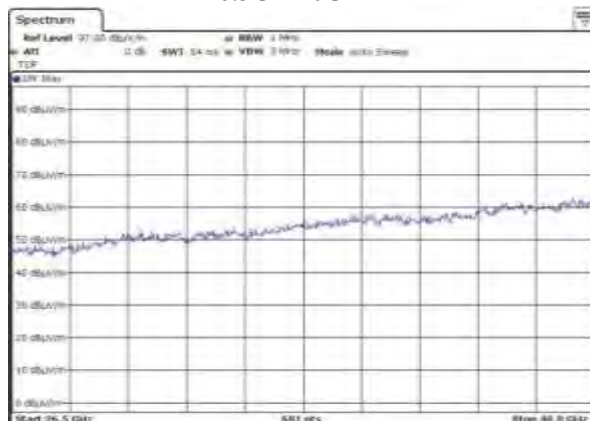
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

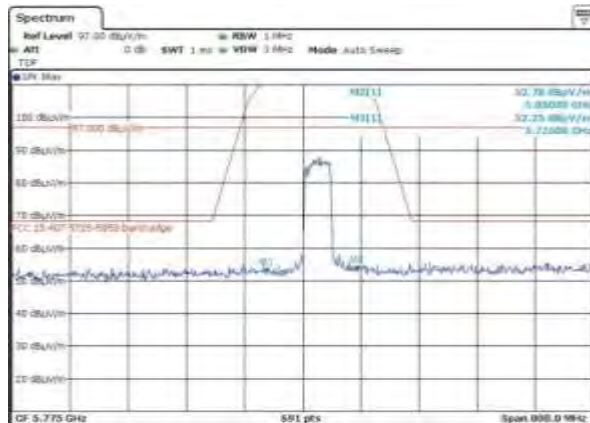
Date : 2021-06-08
No. : HM20020027

Page 470 of 514

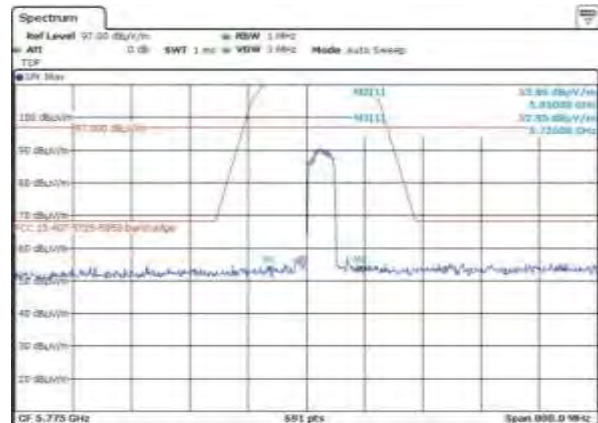
Unwanted emission
802.11n HT40 5795 MHz (CH159)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

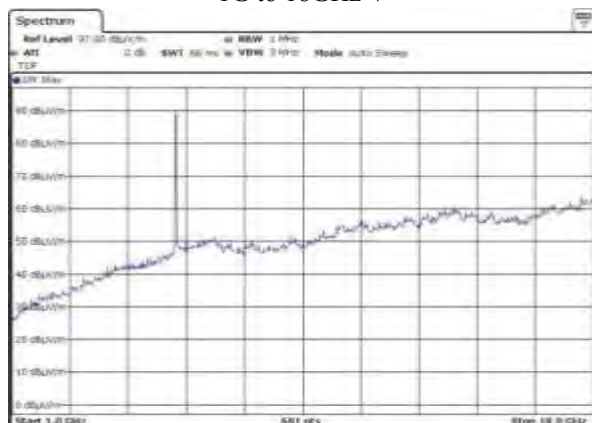
Test Report

Date : 2021-06-08
No. : HM20020027

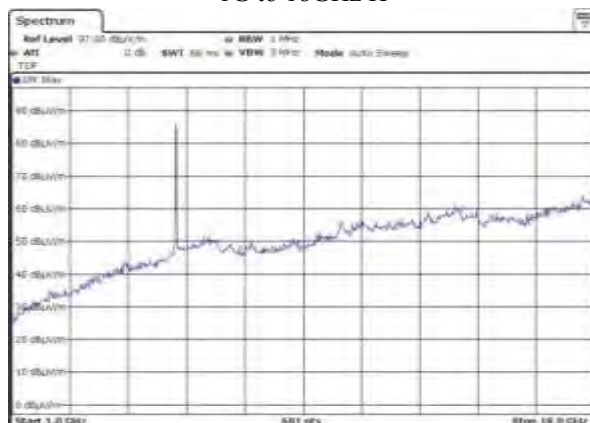
Page 471 of 514

Unwanted emission
802.11n HT40 5795 MHz (CH159)
Antenna option 3

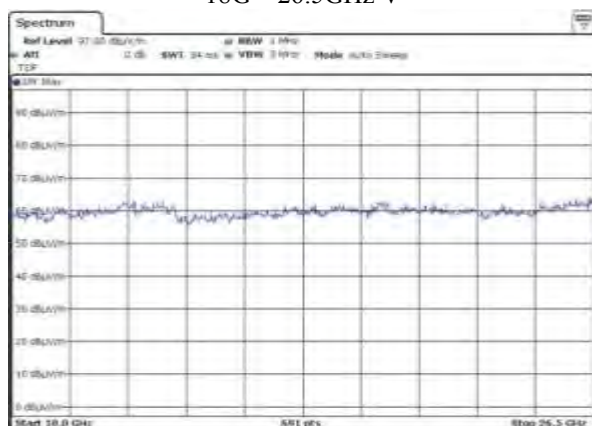
1G to 18GHz V



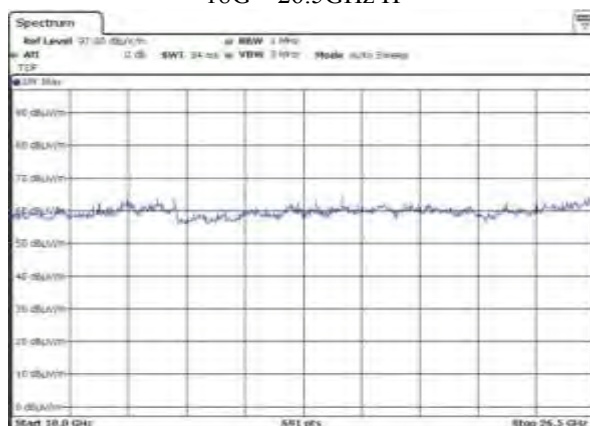
1G to 18GHz H



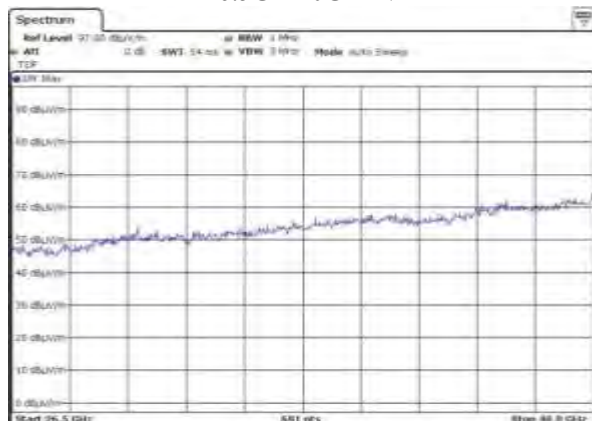
18G – 26.5GHz V



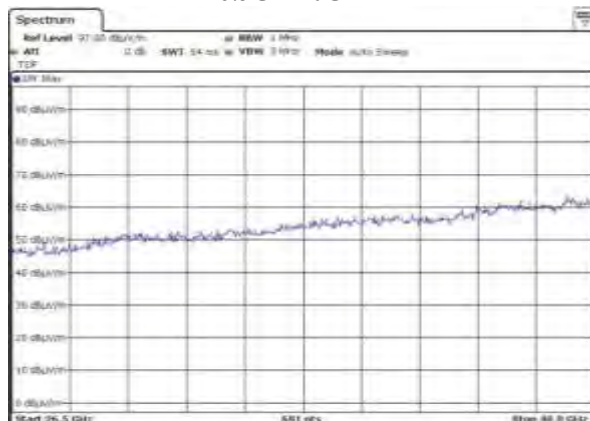
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

Date : 2021-06-08
No. : HM20020027

Page 472 of 514

Unwanted emission
802.11ac VHT20 5180 MHz (CH36)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5150.0	V	PK	1	52.3	74.0	-21.7
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	H	PK	1	52.2	74.0	-21.8
5150.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

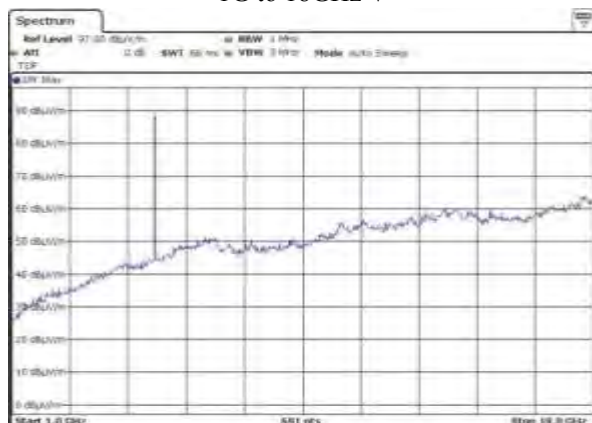
Test Report

Date : 2021-06-08
No. : HM20020027

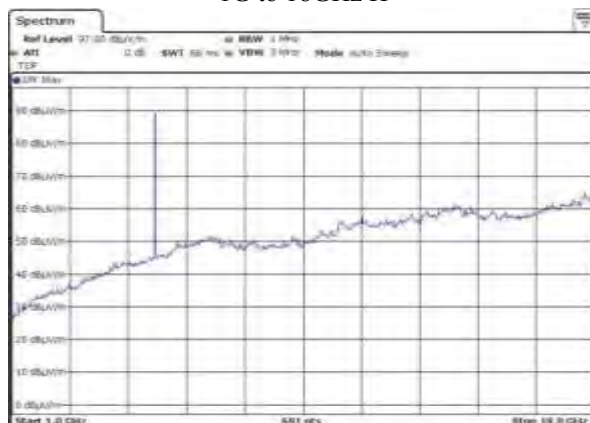
Page 473 of 514

Unwanted emission
802.11ac VHT20 5180 MHz (CH36)
Antenna option 3

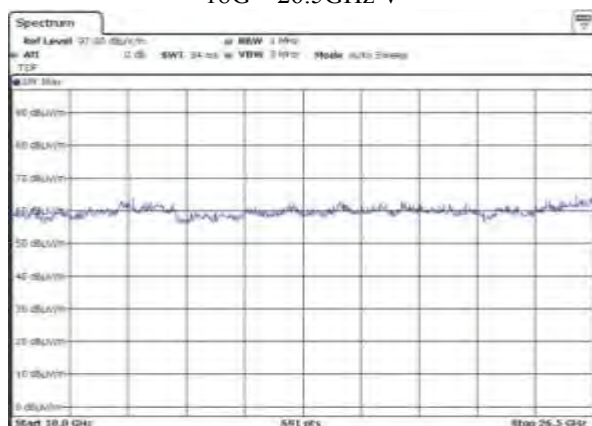
1G to 18GHz V



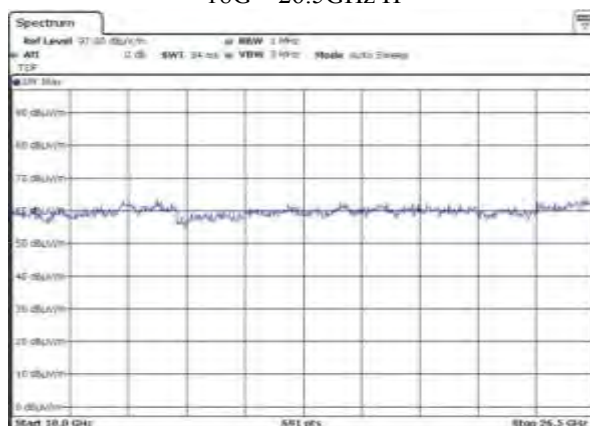
1G to 18GHz H



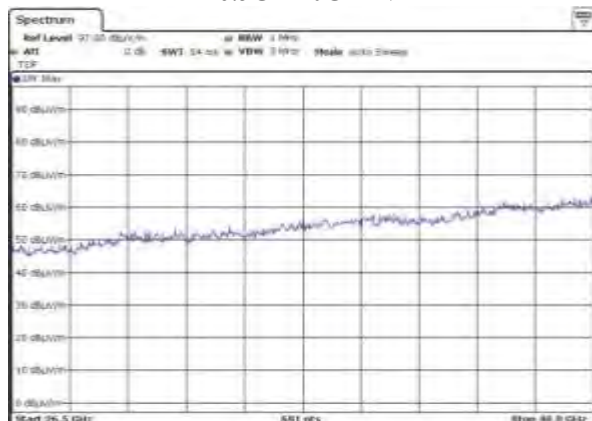
18G – 26.5GHz V



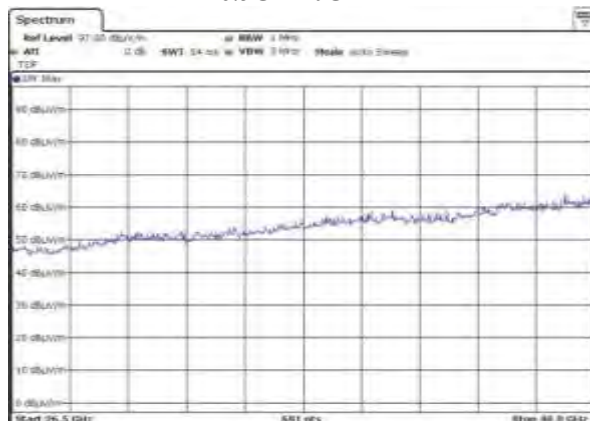
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



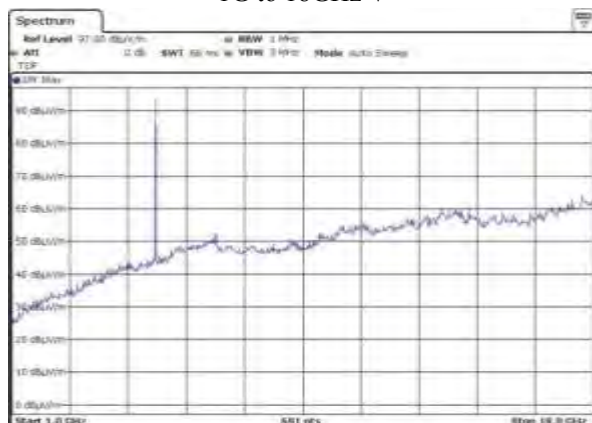
Test Report

Date : 2021-06-08
No. : HM20020027

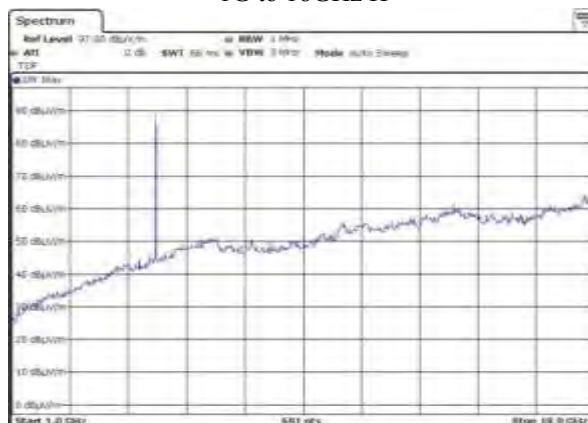
Page 474 of 514

Unwanted emission
802.11ac VHT20 5200 MHz (CH40)
Antenna option 3

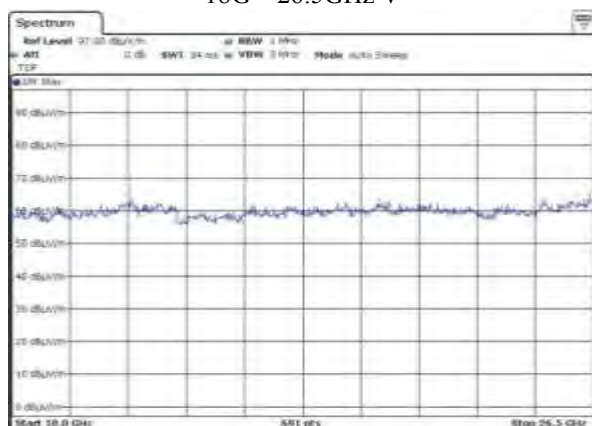
1G to 18GHz V



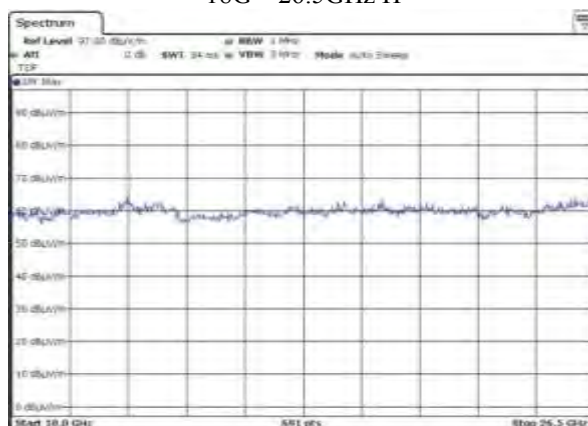
1G to 18GHz H



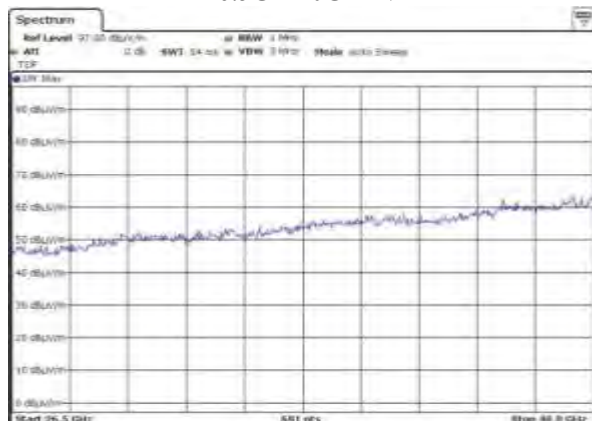
18G – 26.5GHz V



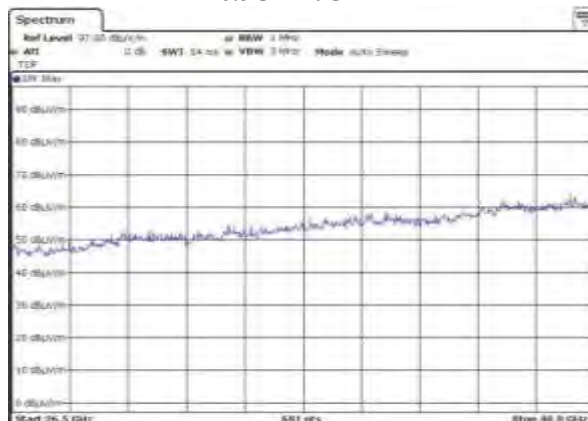
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



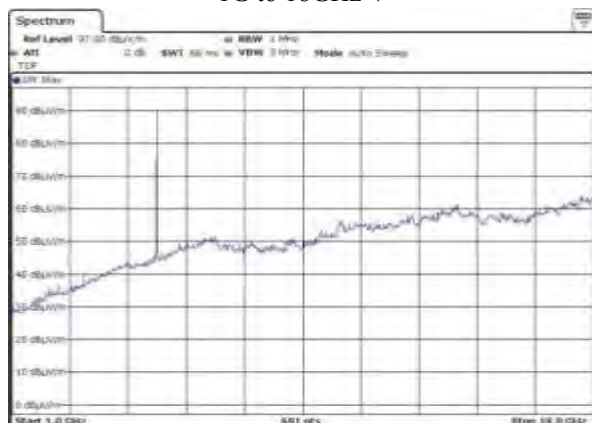
Test Report

Date : 2021-06-08
No. : HM20020027

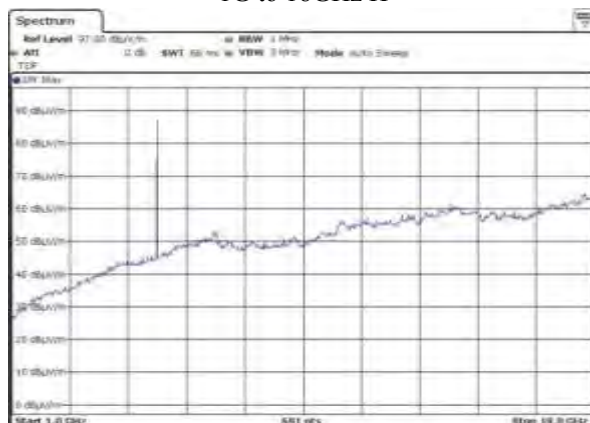
Page 475 of 514

Unwanted emission
802.11ac VHT20 5240 MHz (CH48)
Antenna option 3

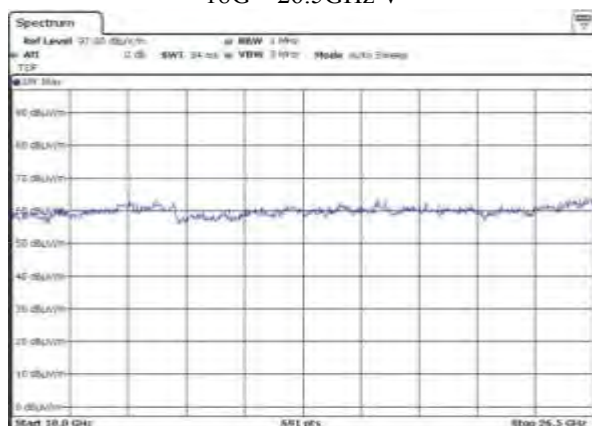
1G to 18GHz V



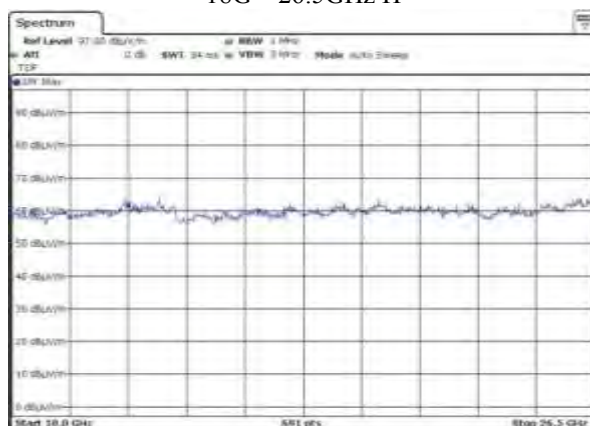
1G to 18GHz H



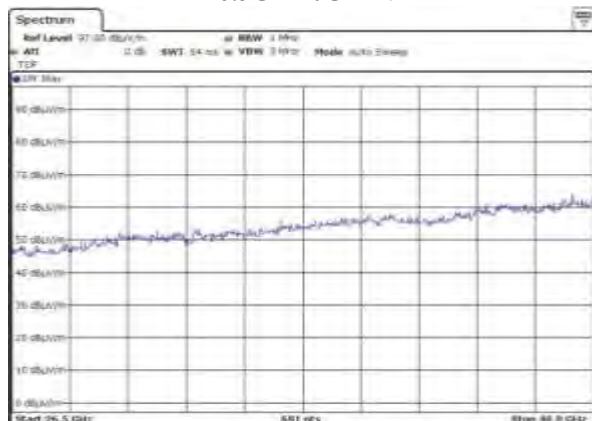
18G – 26.5GHz V



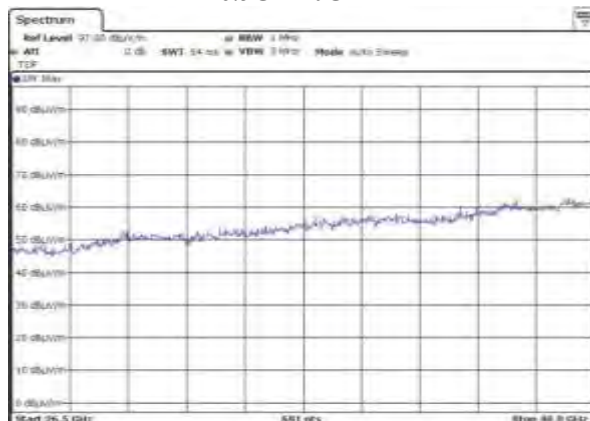
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



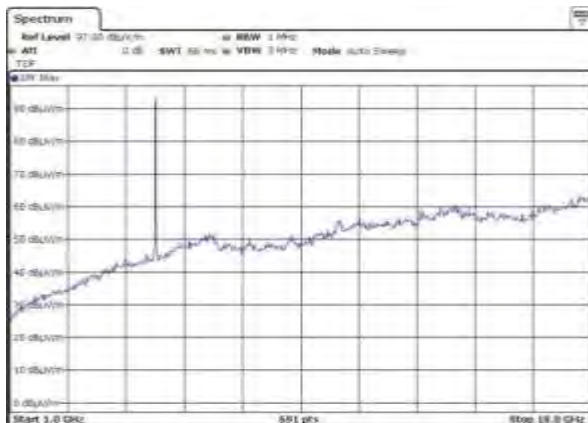
Test Report

Date : 2021-06-08
No. : HM20020027

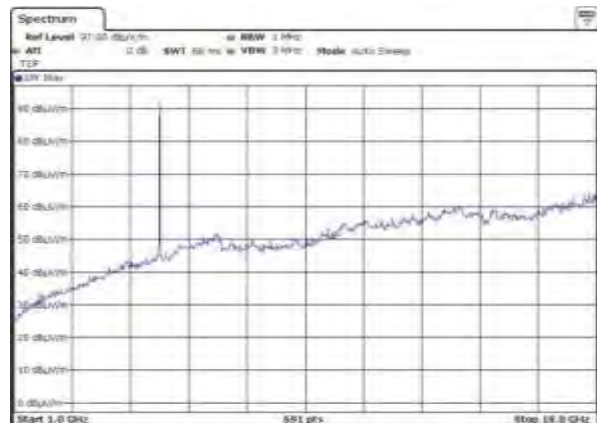
Page 476 of 514

Unwanted emission
802.11ac VHT20 5260 MHz (CH52)
Antenna option 3

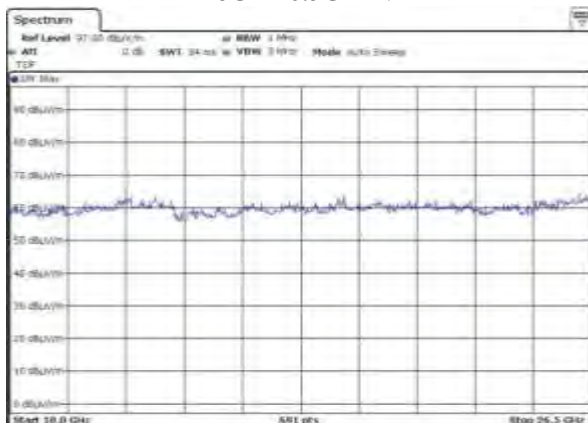
1G to 18GHz V



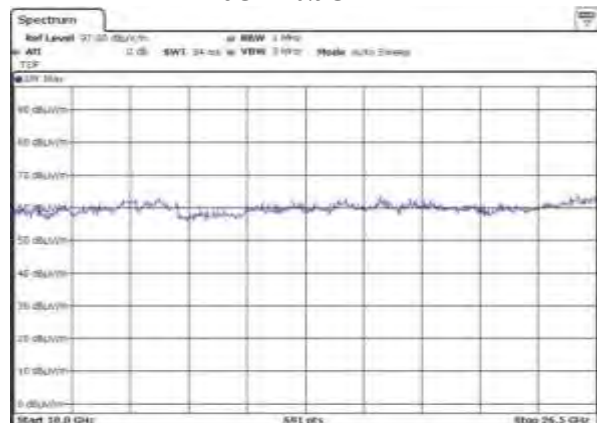
1G to 18GHz H



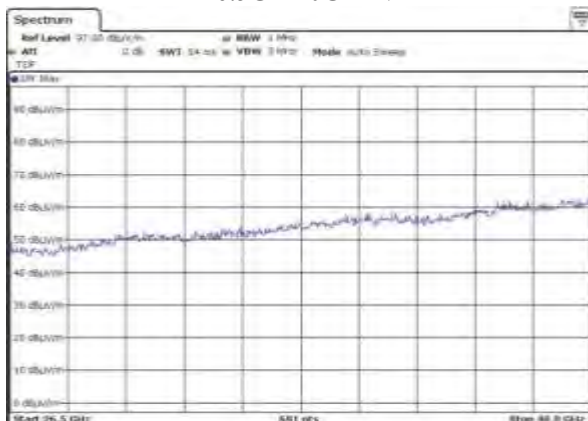
18G – 26.5GHz V



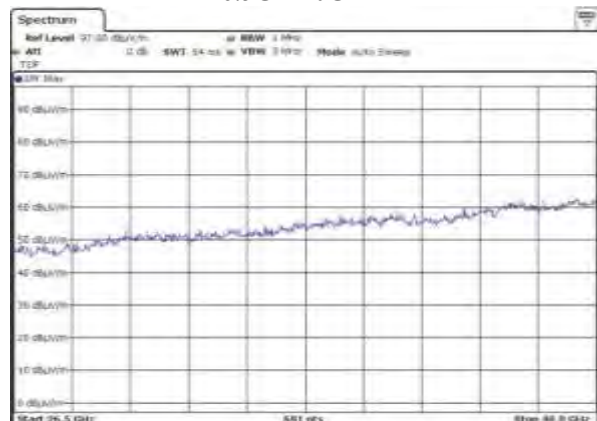
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



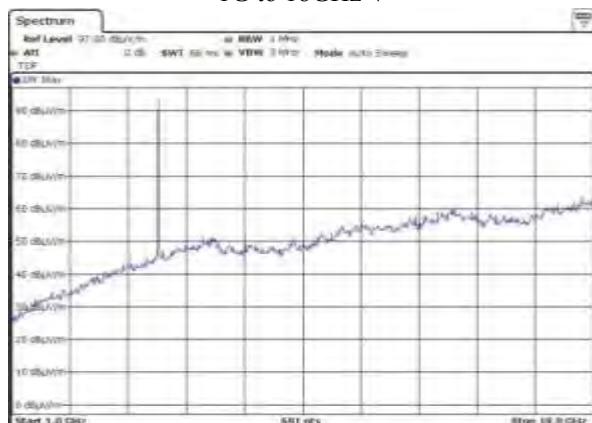
Test Report

Date : 2021-06-08
No. : HM20020027

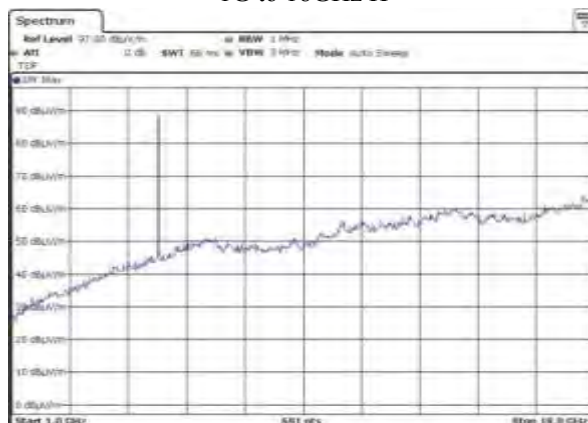
Page 477 of 514

Unwanted emission
802.11ac VHT20 5280 MHz (CH56)
Antenna option 3

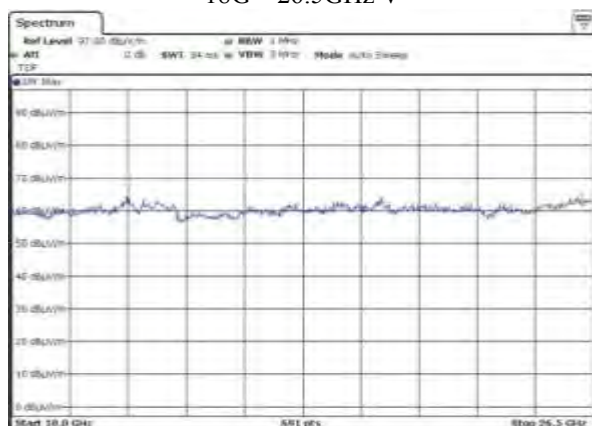
1G to 18GHz V



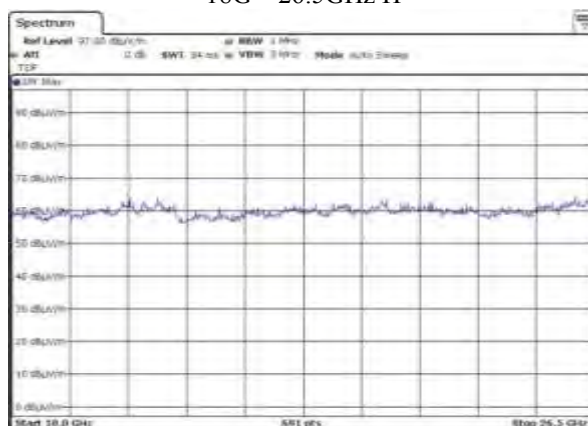
1G to 18GHz H



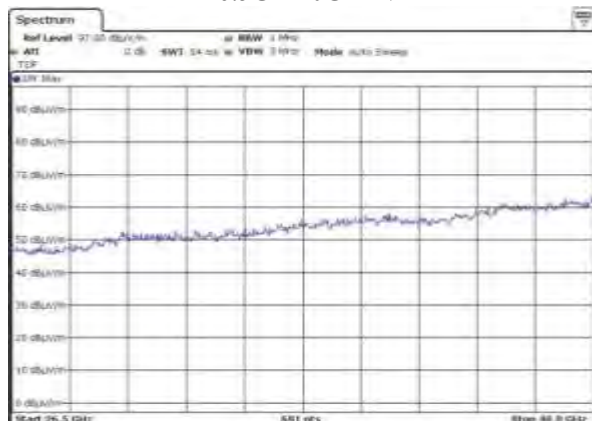
18G – 26.5GHz V



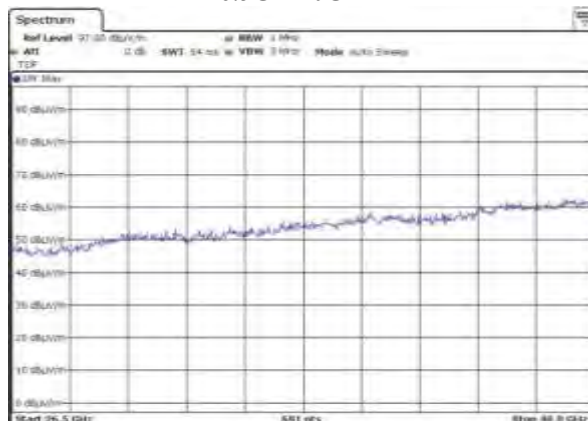
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



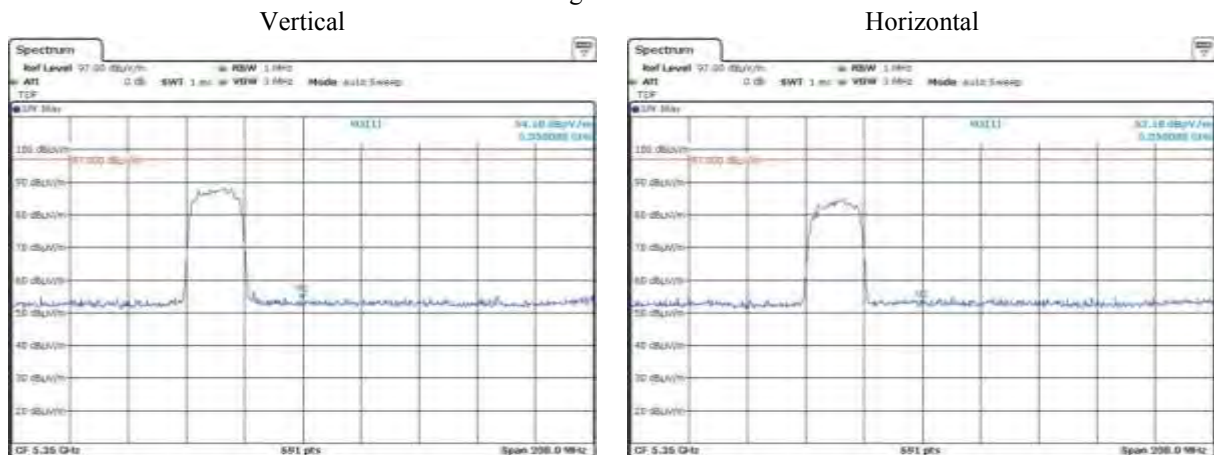
Test Report

Date : 2021-06-08
No. : HM20020027

Page 478 of 514

Unwanted emission
802.11ac VHT20 5320 MHz (CH64)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	54.1	74.0	-19.9
5350.0	V	AV	1	44.2	54.0	-9.8
5350.0	H	PK	1	52.2	74.0	-21.8
5350.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

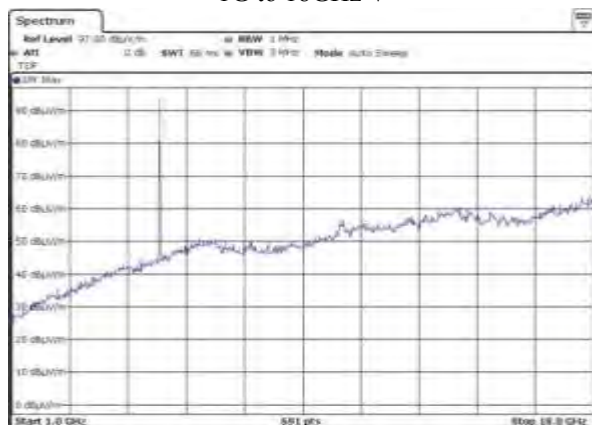
Test Report

Date : 2021-06-08
No. : HM20020027

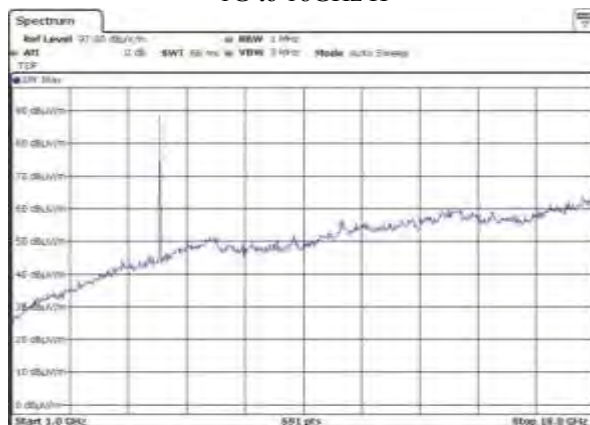
Page 479 of 514

Unwanted emission
802.11ac VHT20 5320 MHz (CH64)
Antenna option 3

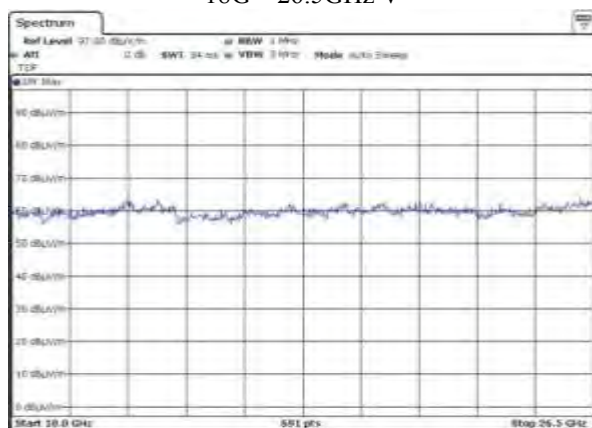
1G to 18GHz V



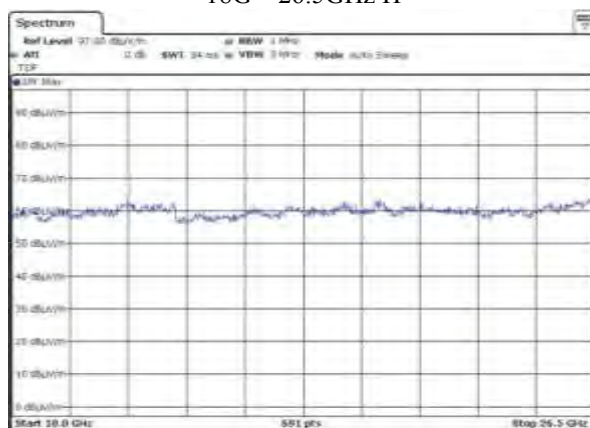
1G to 18GHz H



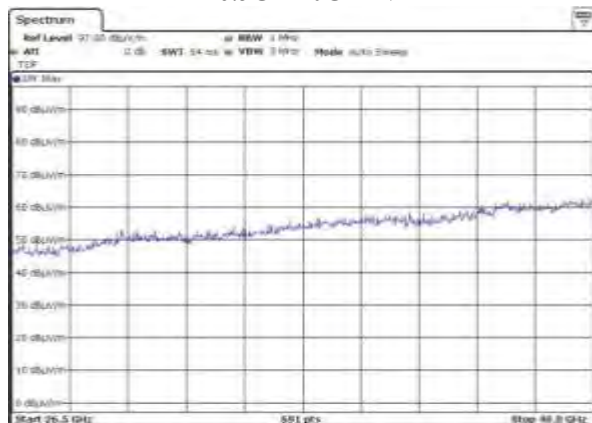
18G – 26.5GHz V



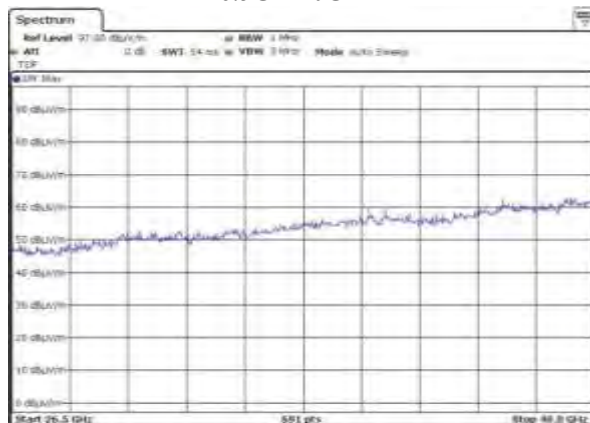
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H





Test Report

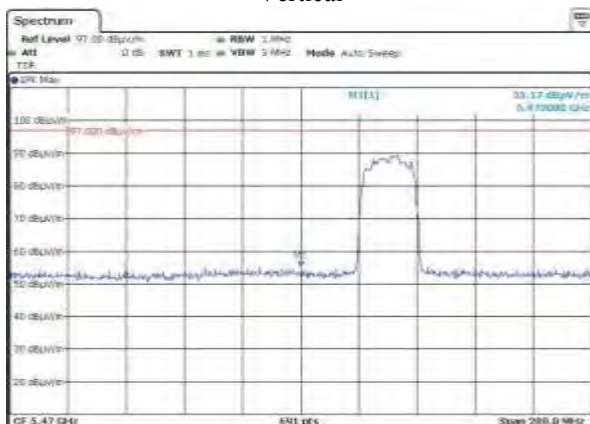
Date : 2021-06-08
No. : HM20020027

Page 480 of 514

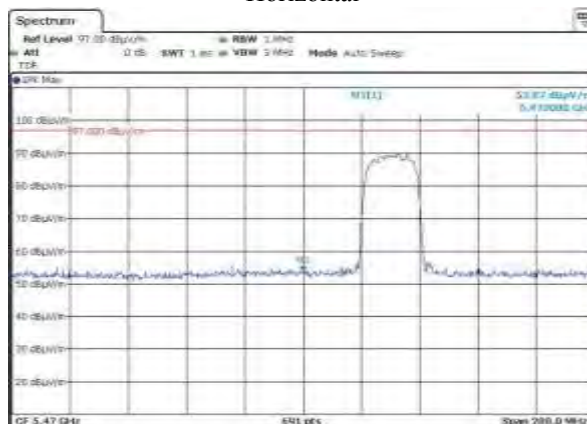
Unwanted emission
802.11ac VHT20 5500 MHz (CH100)
Antenna option 3

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	55.2	74.0	-18.8
5470.0	V	AV	1	44.6	54.0	-9.4
5470.0	H	PK	1	53.9	74.0	-20.1
5470.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

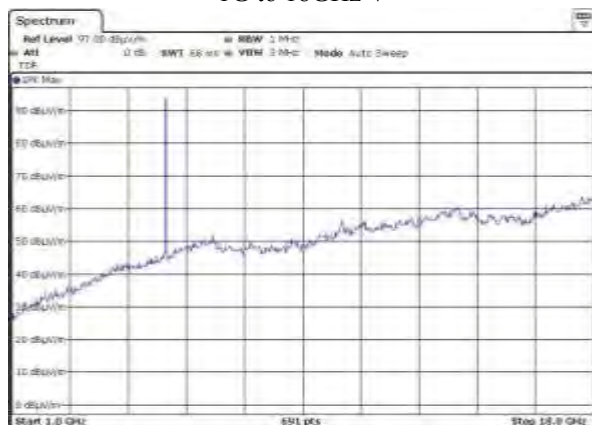
Test Report

Date : 2021-06-08
No. : HM20020027

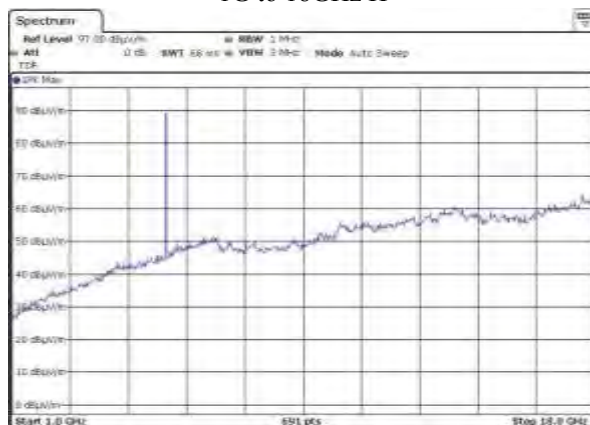
Page 481 of 514

Unwanted emission
802.11ac VHT20 5500 MHz (CH100)
Antenna option 3

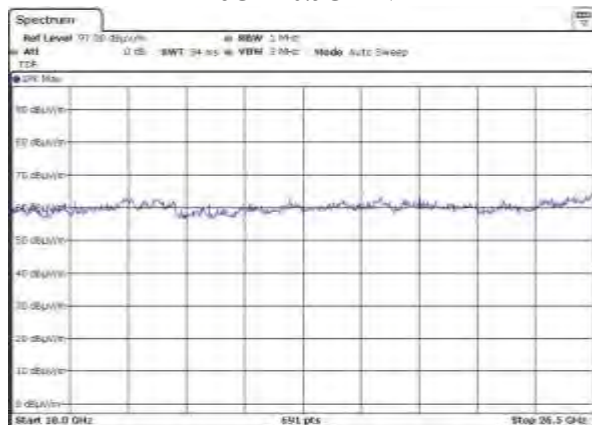
1G to 18GHz V



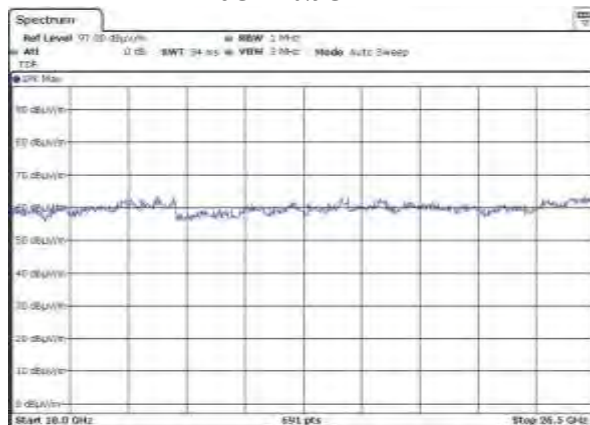
1G to 18GHz H



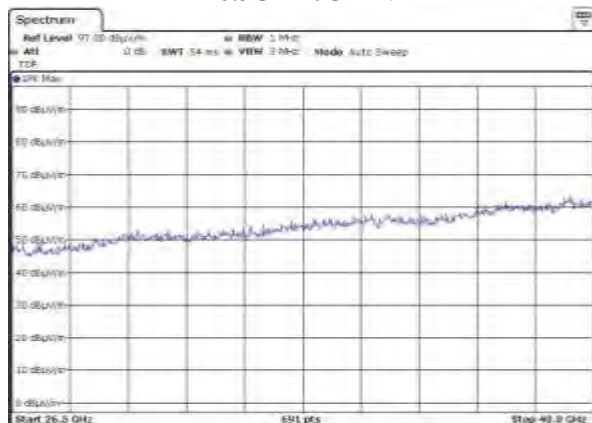
18G – 26.5GHz V



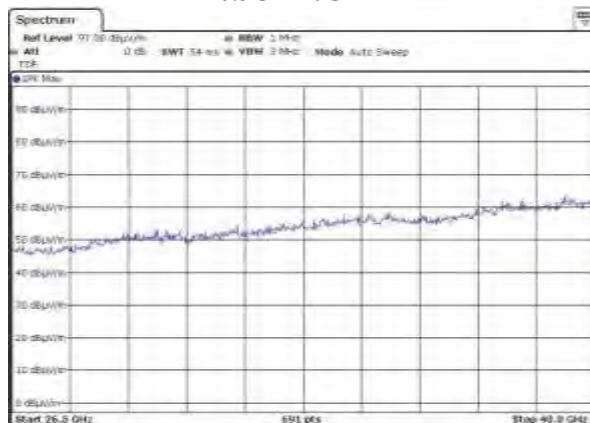
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



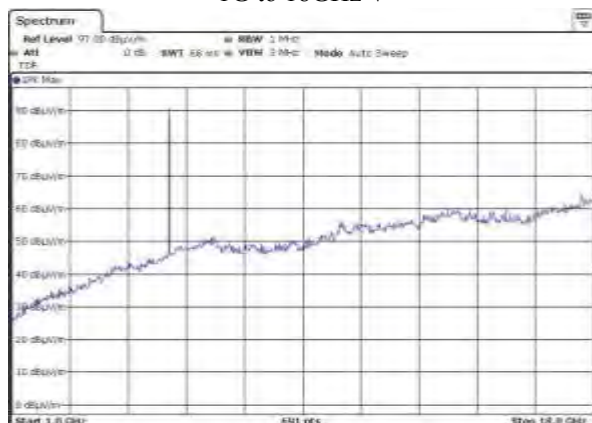
Test Report

Date : 2021-06-08
No. : HM20020027

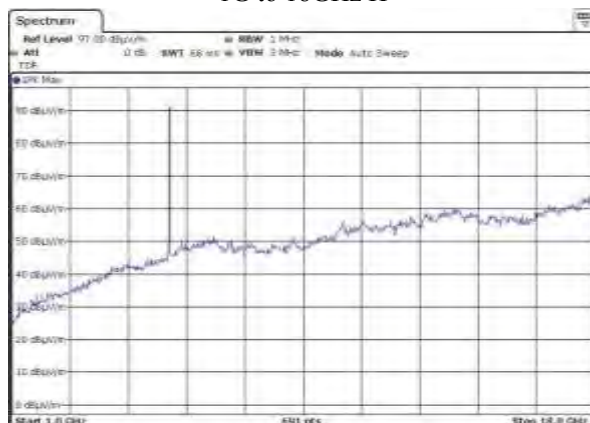
Page 482 of 514

Unwanted emission
802.11ac VHT20 5600 MHz (CH120)
Antenna option 3

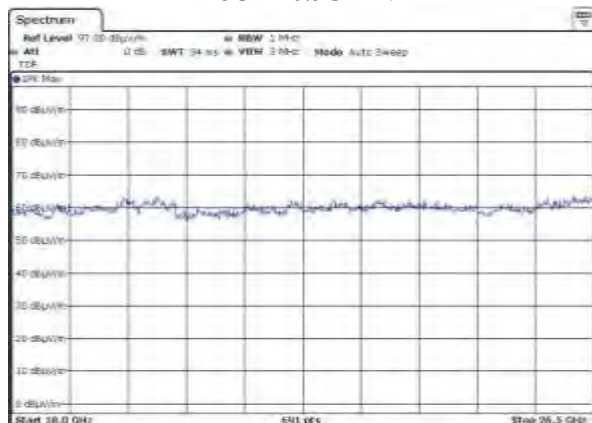
1G to 18GHz V



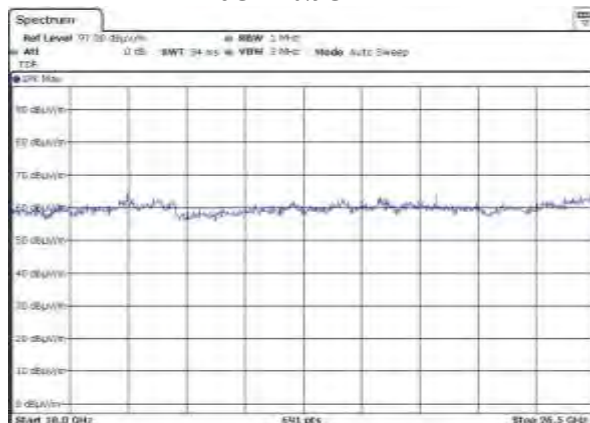
1G to 18GHz H



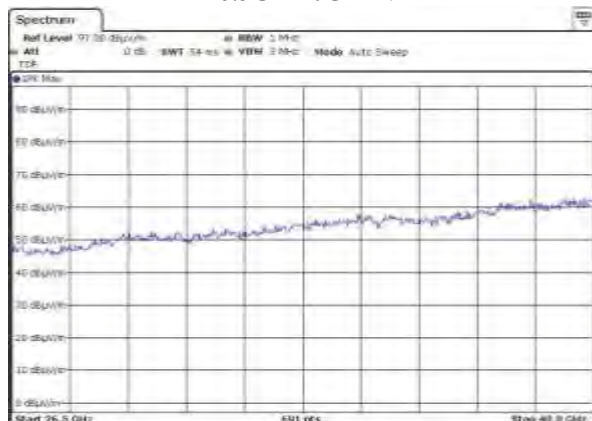
18G – 26.5GHz V



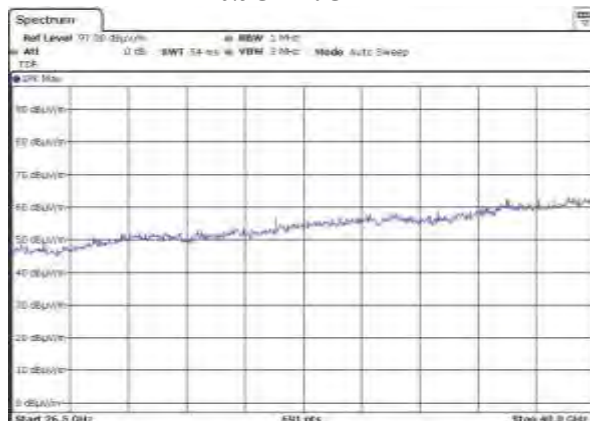
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



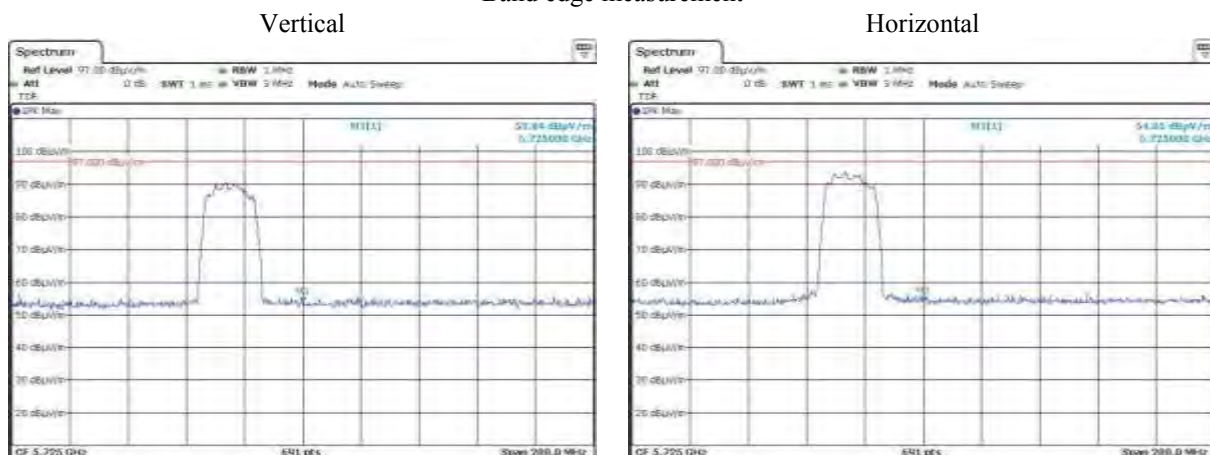
Test Report

Date : 2021-06-08
No. : HM20020027

Page 483 of 514

Unwanted emission
802.11ac VHT20 5700 MHz (CH140)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	53.8	74.0	-20.2
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	54.1	74.0	-19.9
5725.0	H	AV	1	45.2	54.0	-8.8

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

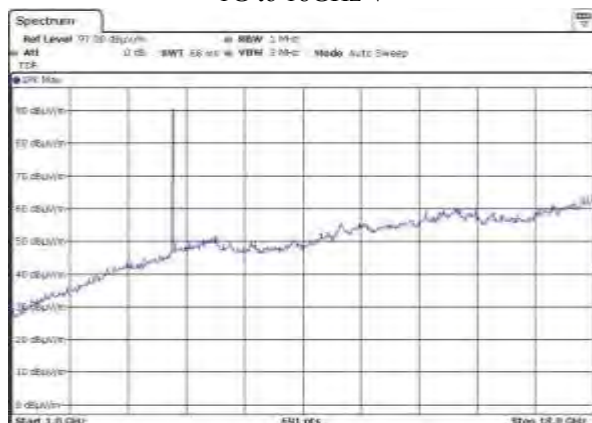
Test Report

Date : 2021-06-08
No. : HM20020027

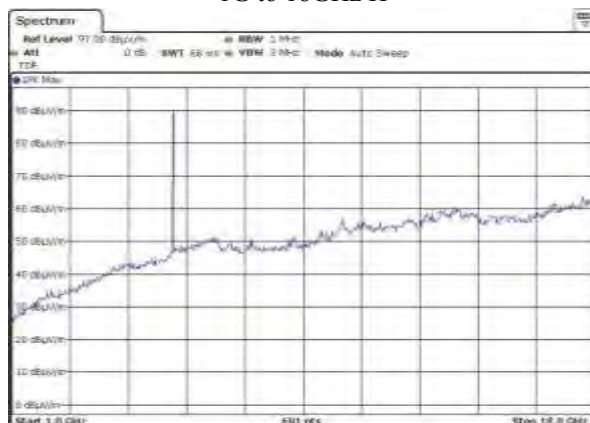
Page 484 of 514

Unwanted emission
802.11ac VHT20 5700 MHz (CH140)
Antenna option 3

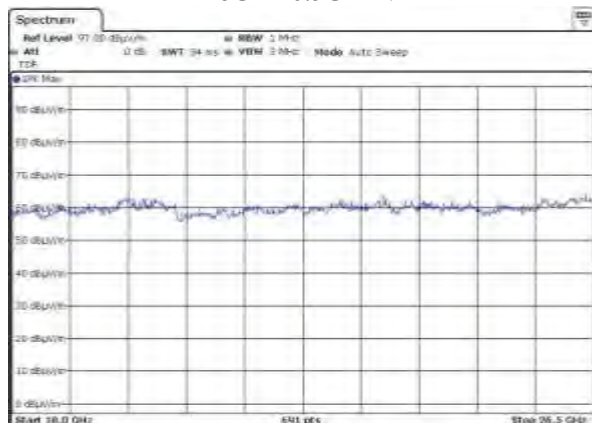
1G to 18GHz V



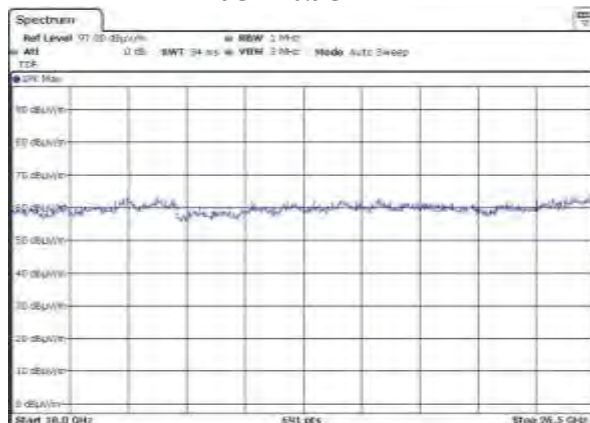
1G to 18GHz H



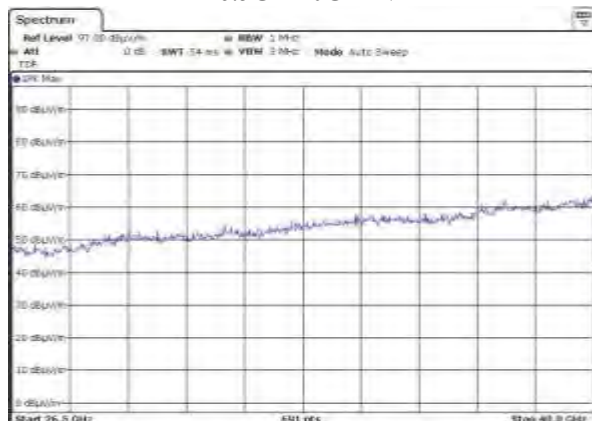
18G – 26.5GHz V



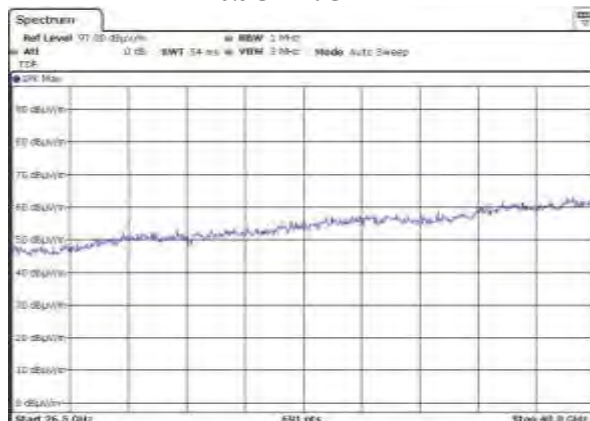
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

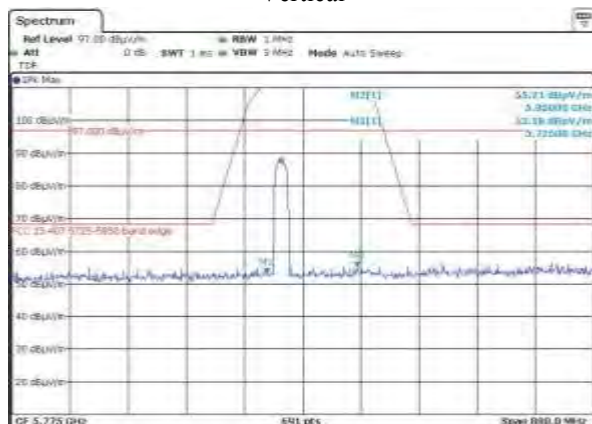
Date : 2021-06-08
No. : HM20020027

Page 485 of 514

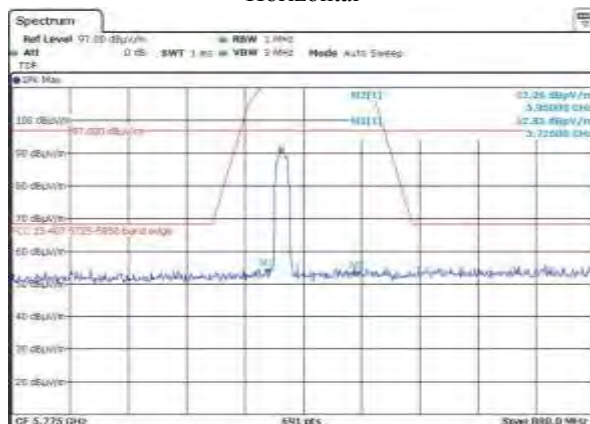
Unwanted emission
802.11ac VHT20 5745 MHz (CH149)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

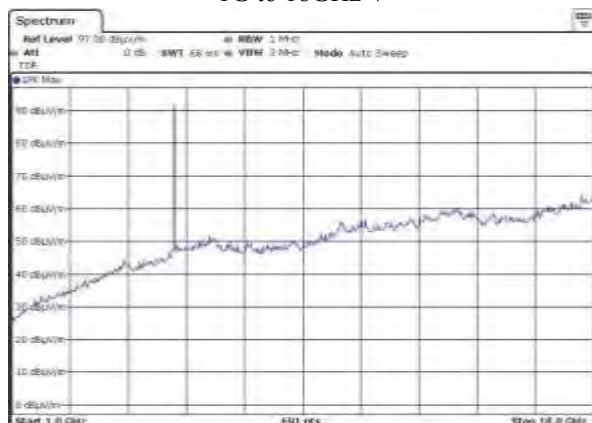
Test Report

Date : 2021-06-08
No. : HM20020027

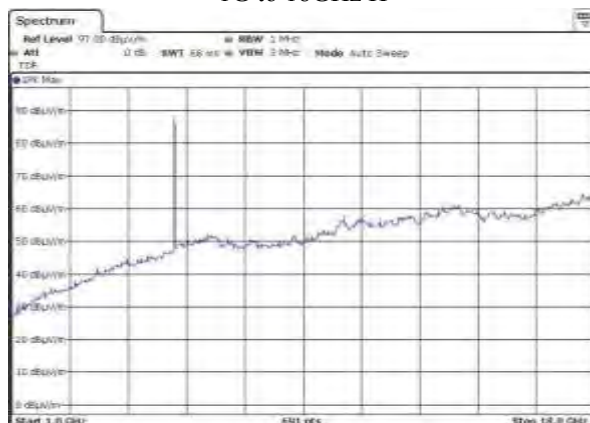
Page 486 of 514

Unwanted emission
802.11ac VHT20 5745 MHz (CH149)
Antenna option 3

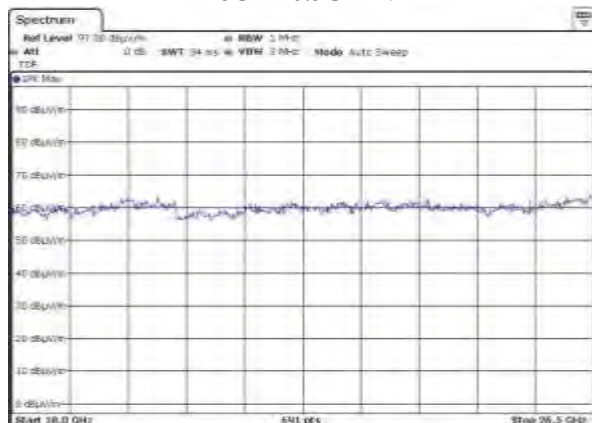
1G to 18GHz V



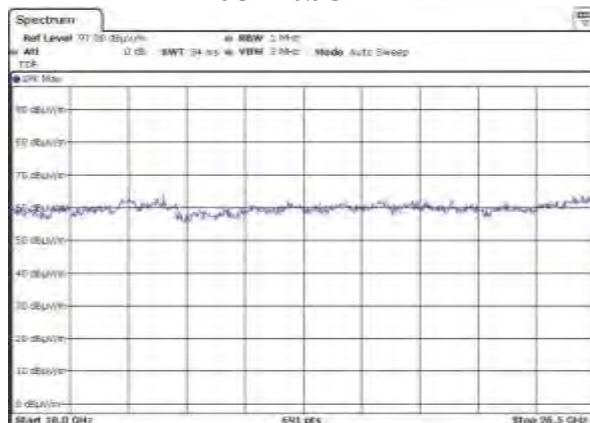
1G to 18GHz H



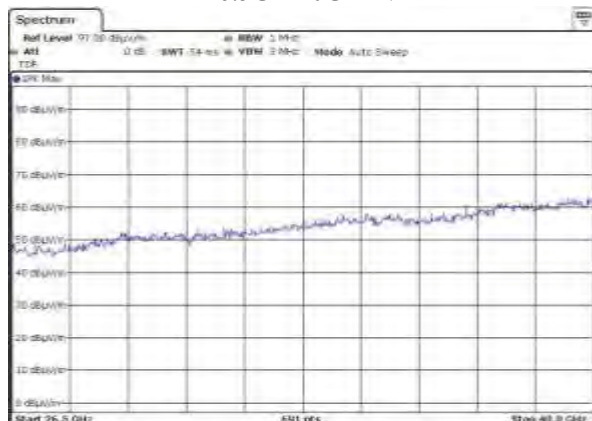
18G – 26.5GHz V



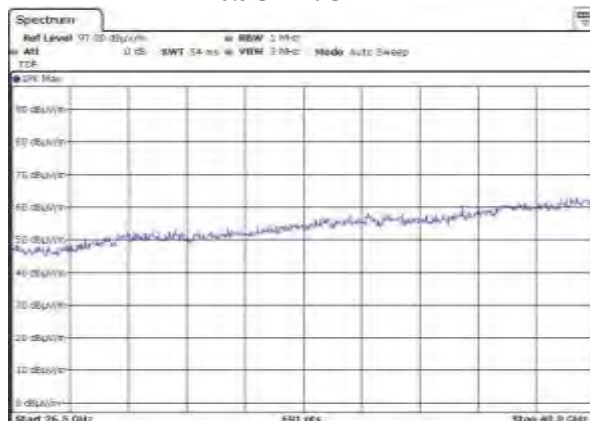
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



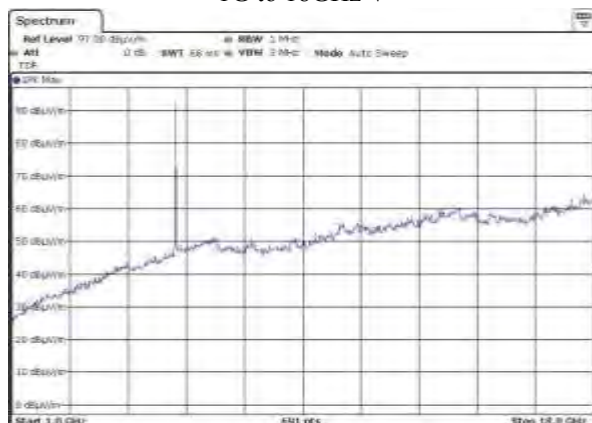
Test Report

Date : 2021-06-08
No. : HM20020027

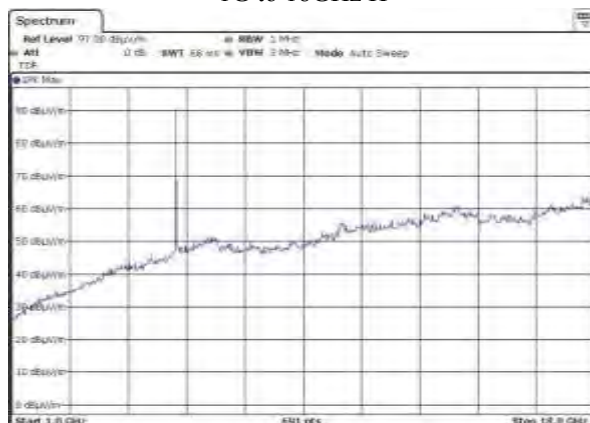
Page 487 of 514

Unwanted emission
802.11ac VHT20 5785 MHz (CH157)
Antenna option 3

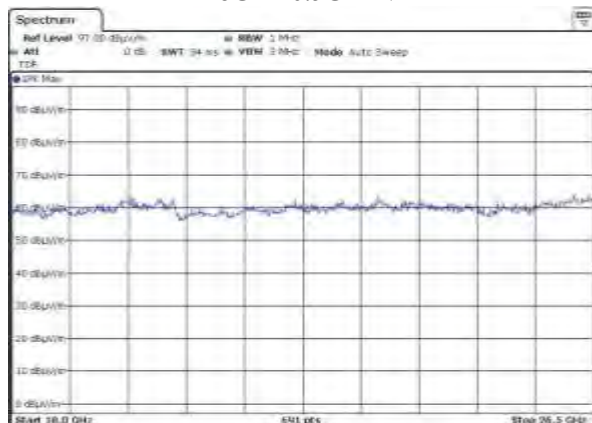
1G to 18GHz V



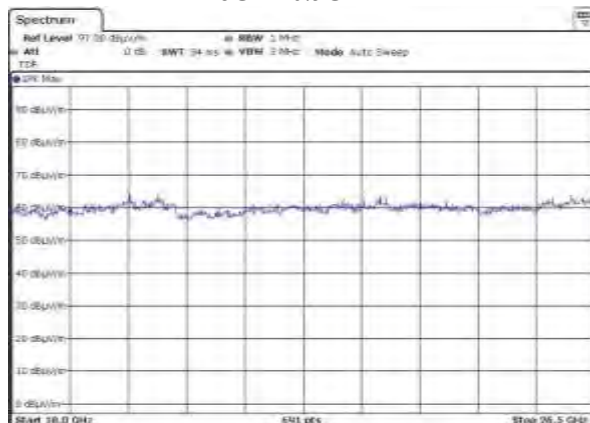
1G to 18GHz H



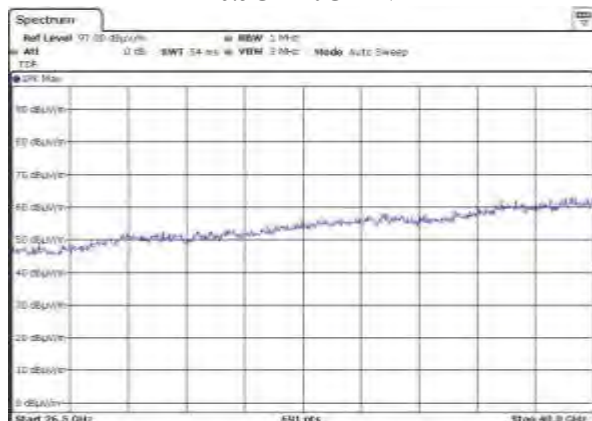
18G – 26.5GHz V



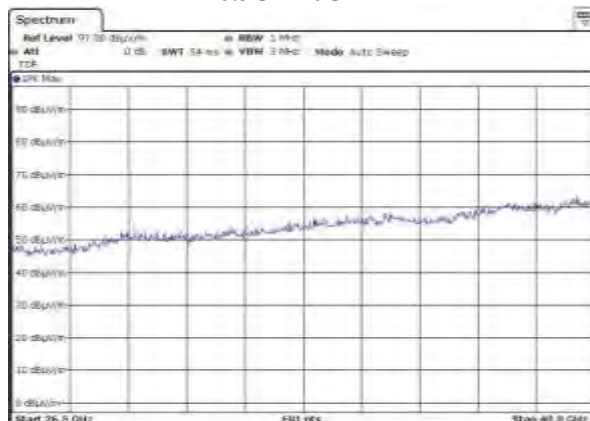
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

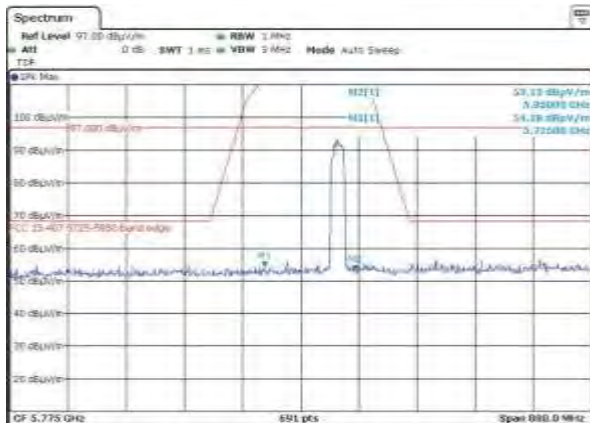
Date : 2021-06-08
No. : HM20020027

Page 488 of 514

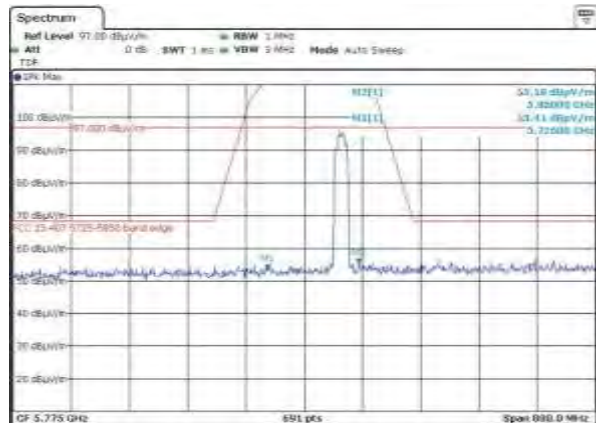
Unwanted emission
802.11ac VHT20 5825 MHz (CH165)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

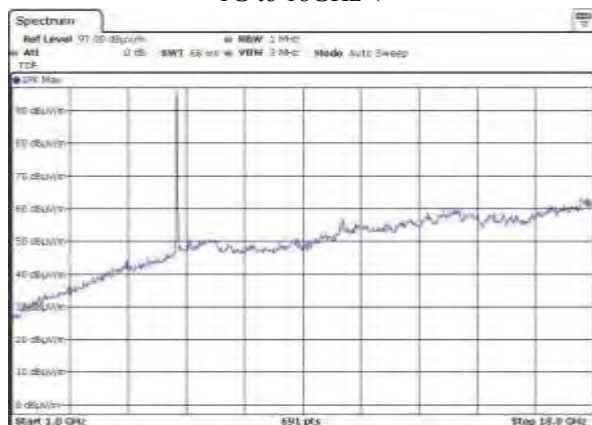
Test Report

Date : 2021-06-08
No. : HM20020027

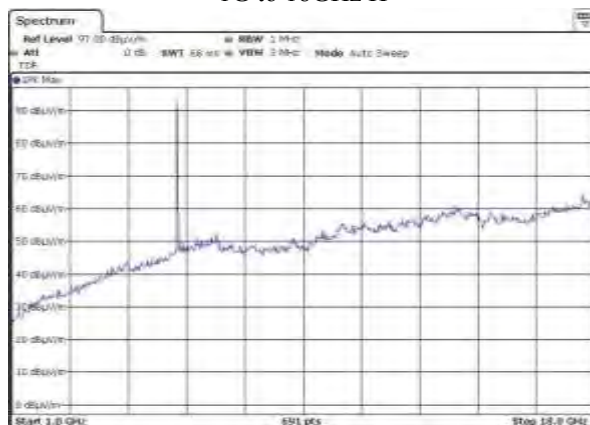
Page 489 of 514

Unwanted emission
802.11ac VHT20 5825 MHz (CH165)
Antenna option 3

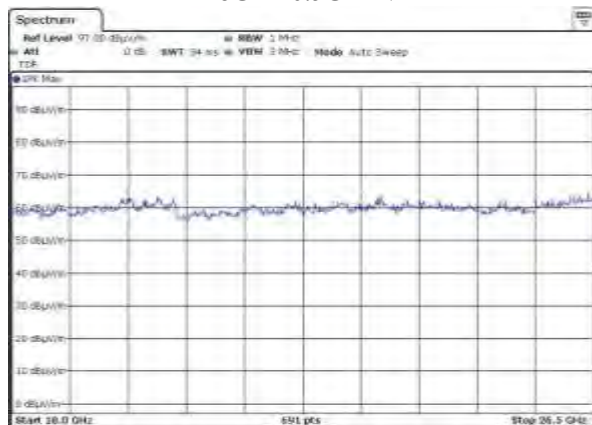
1G to 18GHz V



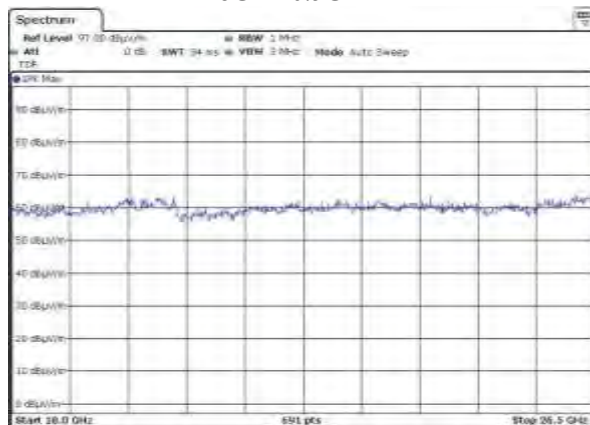
1G to 18GHz H



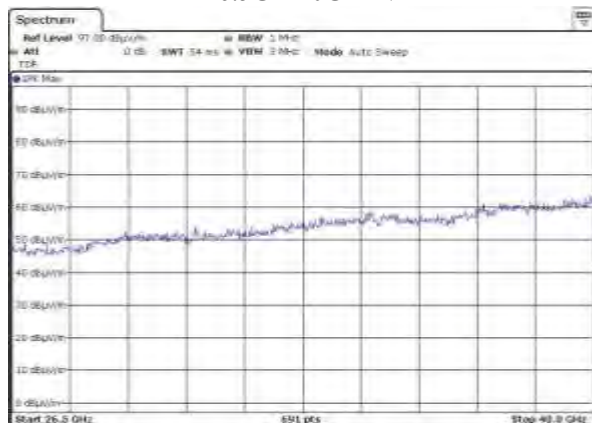
18G – 26.5GHz V



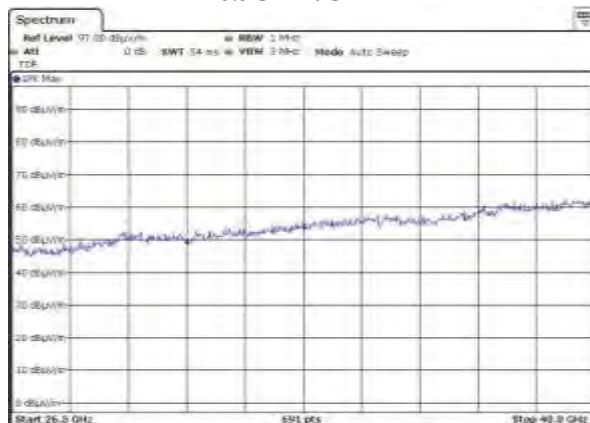
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



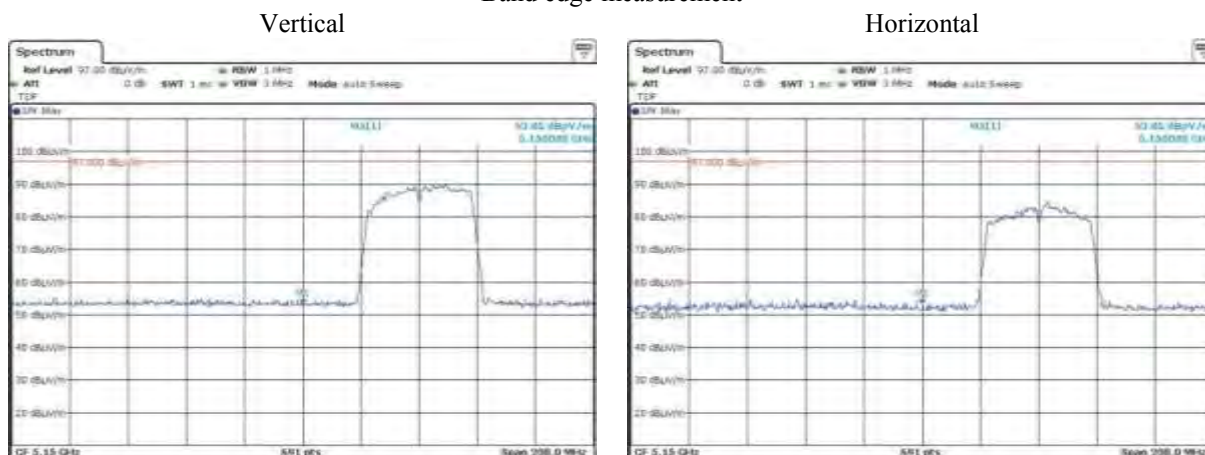
Test Report

Date : 2021-06-08
No. : HM20020027

Page 490 of 514

Unwanted emission
802.11ac VHT40 5190 MHz (CH38)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5150.0	V	PK	1	53.1	74.0	-20.9
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	H	PK	1	53.1	74.0	-20.9
5150.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

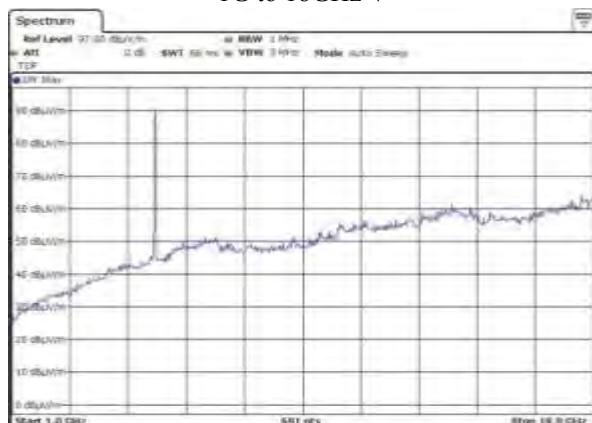
Test Report

Date : 2021-06-08
No. : HM20020027

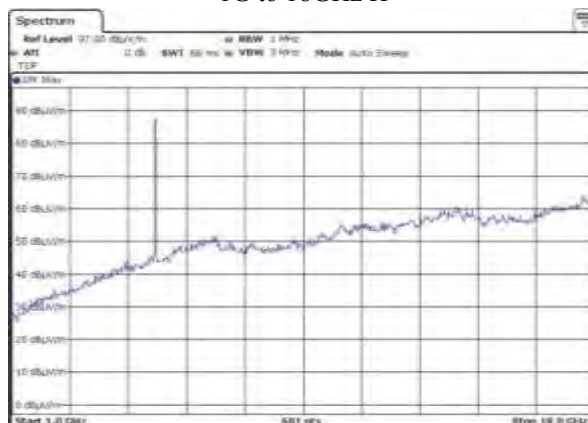
Page 491 of 514

Unwanted emission
802.11ac VHT40 5190 MHz (CH38)
Antenna option 3

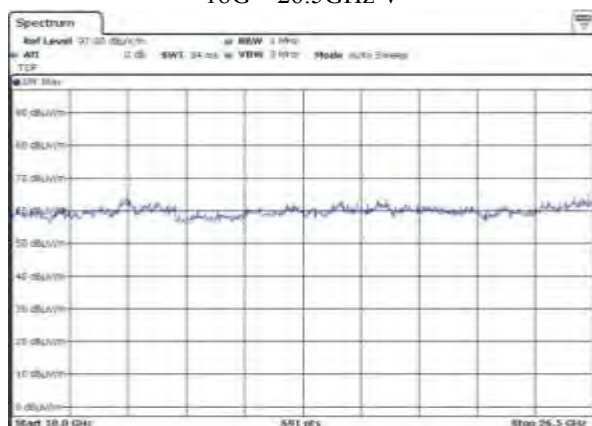
1G to 18GHz V



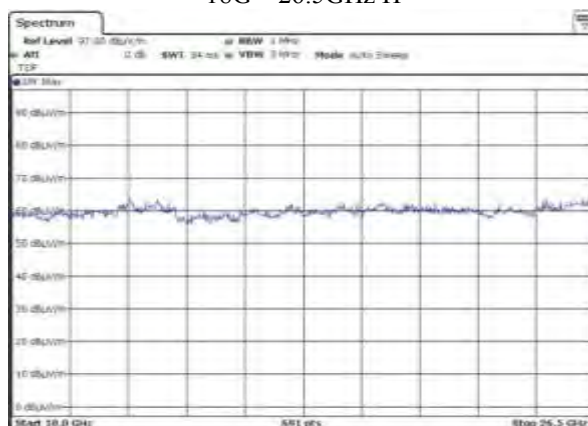
1G to 18GHz H



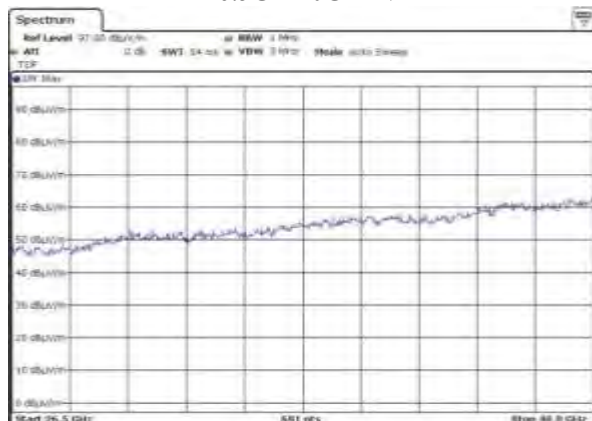
18G – 26.5GHz V



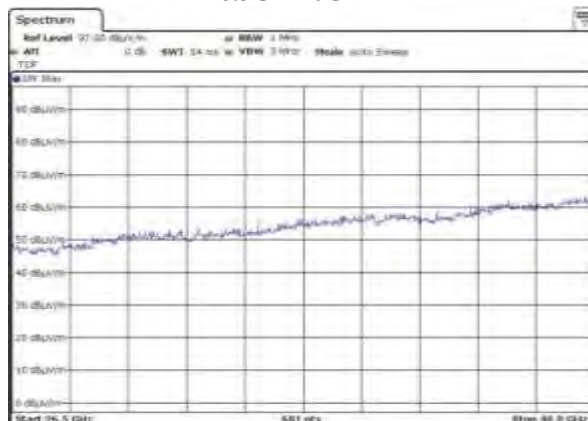
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



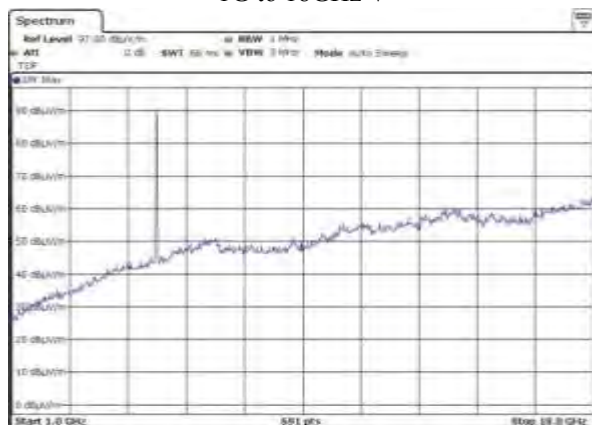
Test Report

Date : 2021-06-08
No. : HM20020027

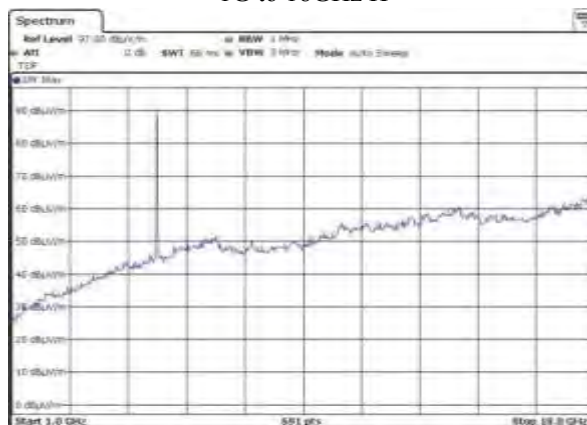
Page 492 of 514

Unwanted emission
802.11ac VHT40 5230 MHz (CH46)
Antenna option 3

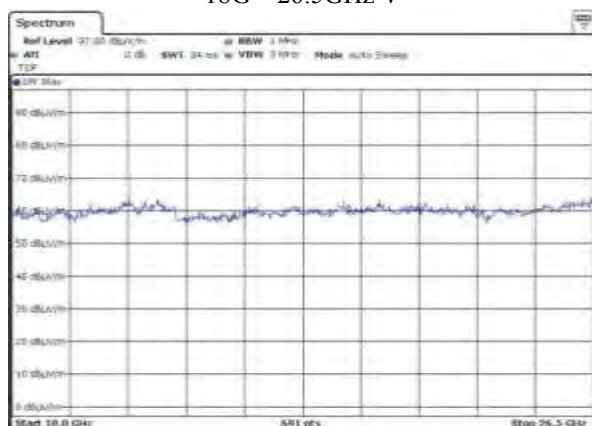
1G to 18GHz V



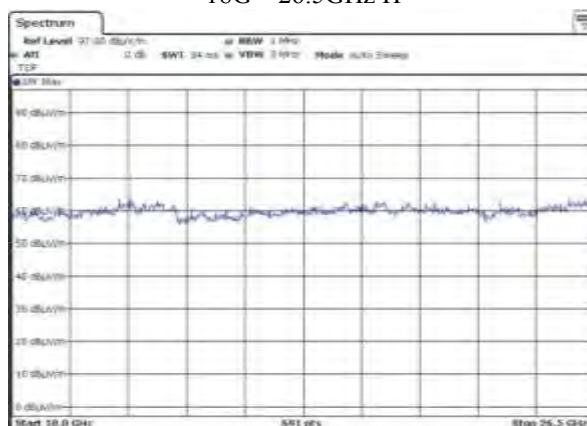
1G to 18GHz H



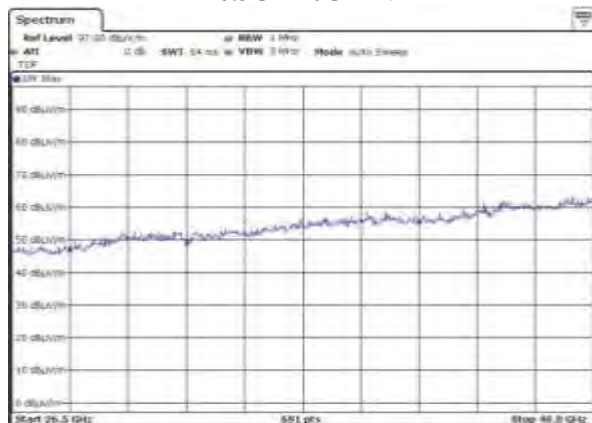
18G – 26.5GHz V



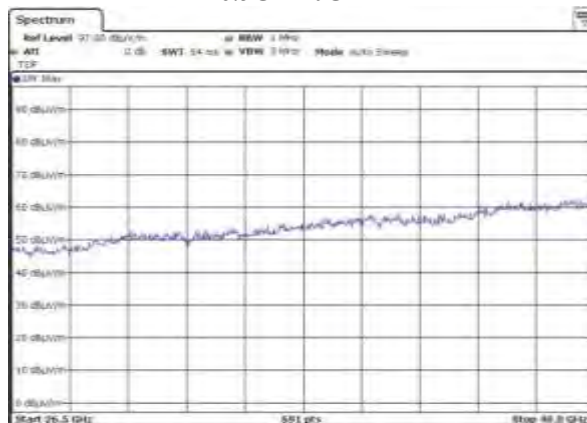
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



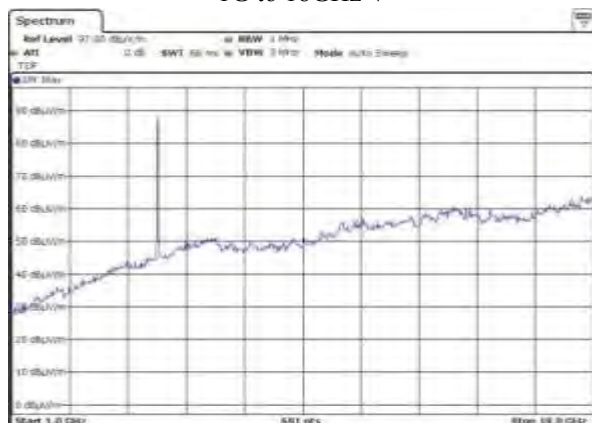
Test Report

Date : 2021-06-08
No. : HM20020027

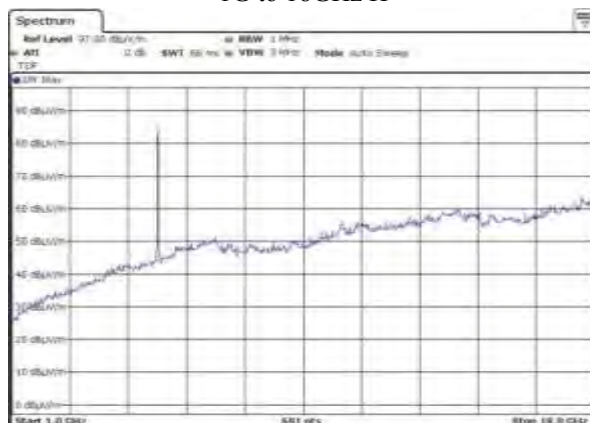
Page 493 of 514

Unwanted emission
802.11ac VHT40 5270 MHz (CH54)
Antenna option 3

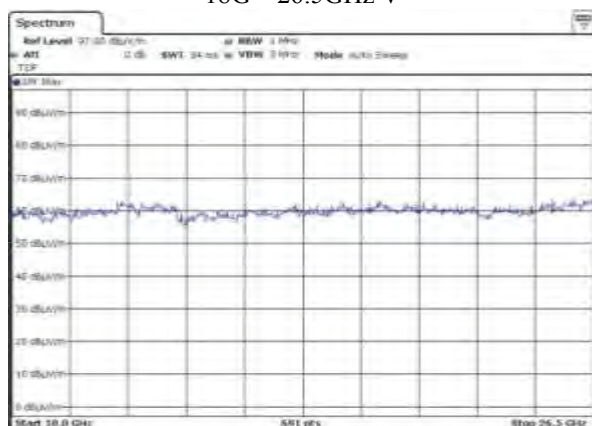
1G to 18GHz V



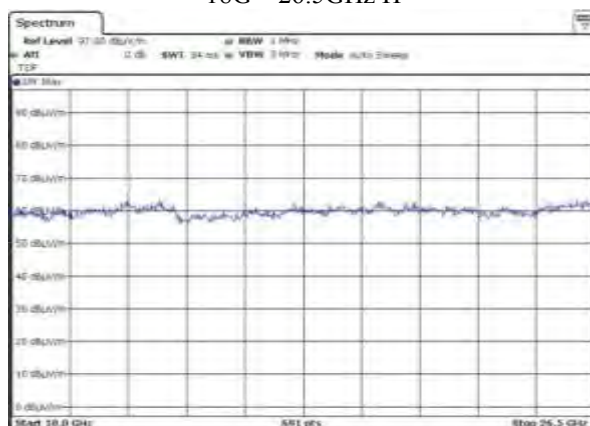
1G to 18GHz H



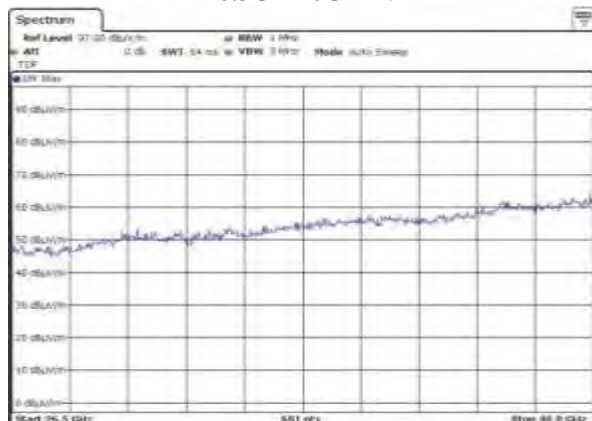
18G – 26.5GHz V



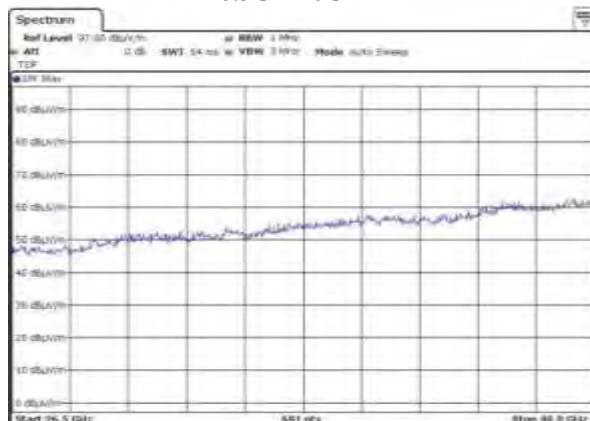
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



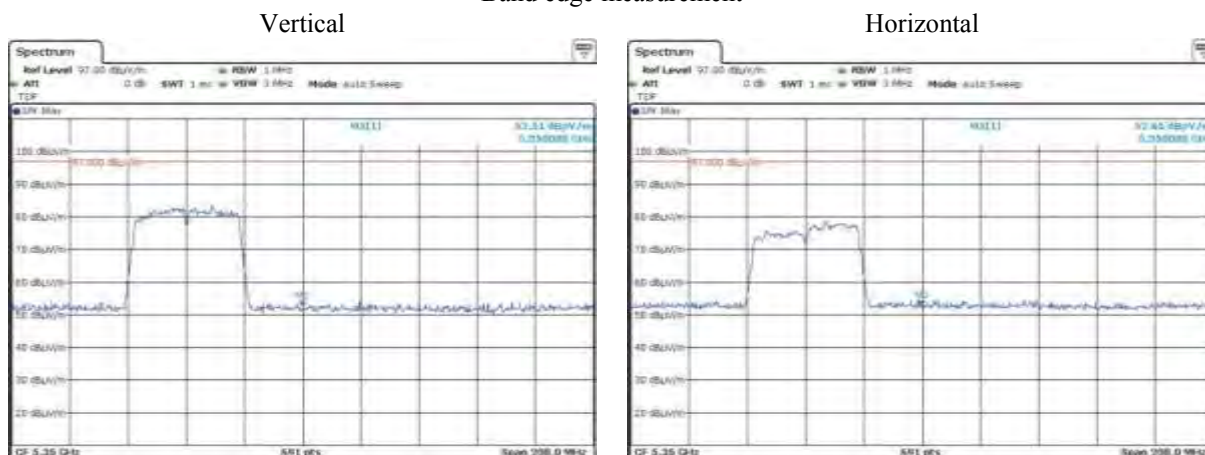
Test Report

Date : 2021-06-08
No. : HM20020027

Page 494 of 514

Unwanted emission
802.11ac VHT40 5310 MHz (CH62)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	53.5	74.0	-20.5
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	H	PK	1	52.7	74.0	-21.3
5350.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

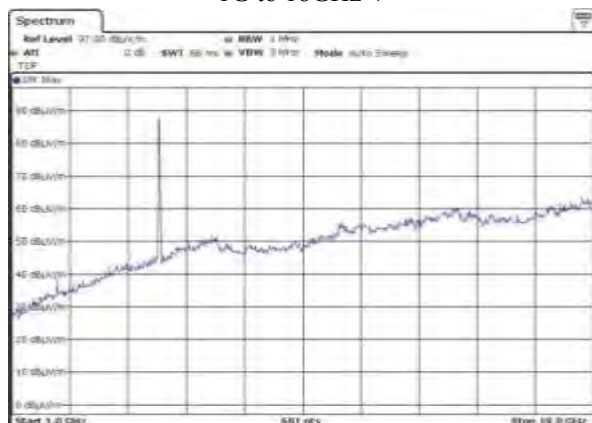
Test Report

Date : 2021-06-08
No. : HM20020027

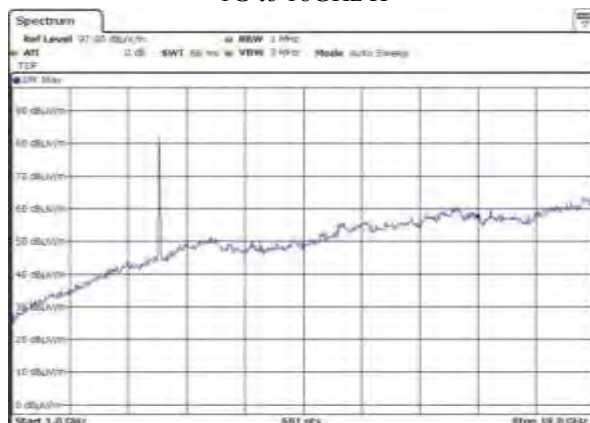
Page 495 of 514

Unwanted emission
802.11ac VHT40 5310 MHz (CH62)
Antenna option 3

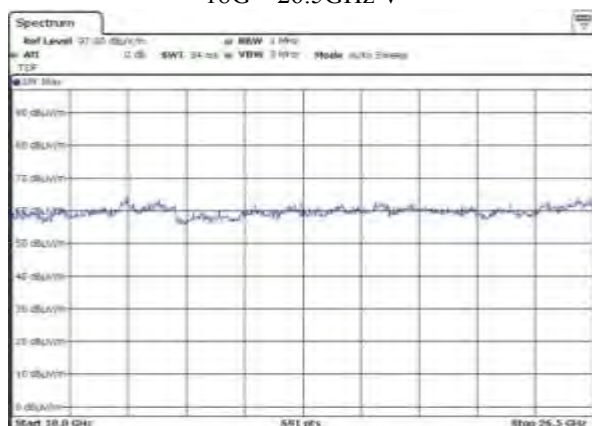
1G to 18GHz V



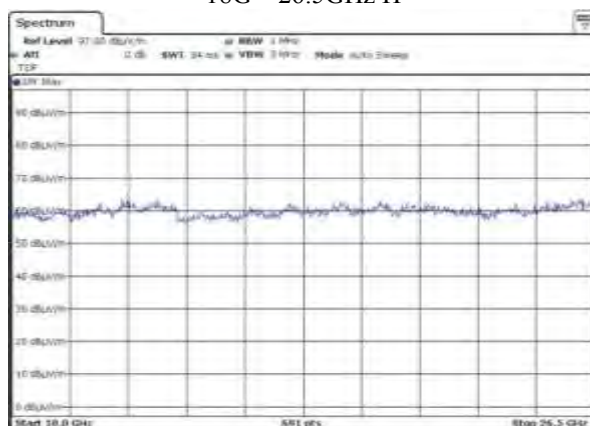
1G to 18GHz H



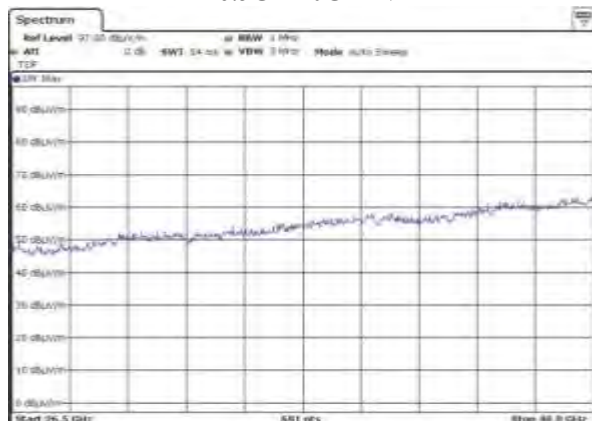
18G – 26.5GHz V



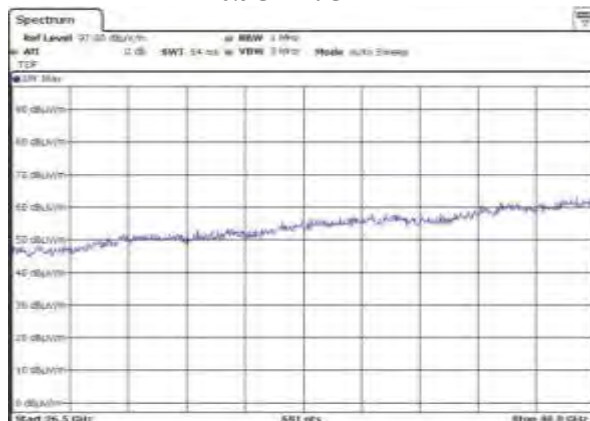
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



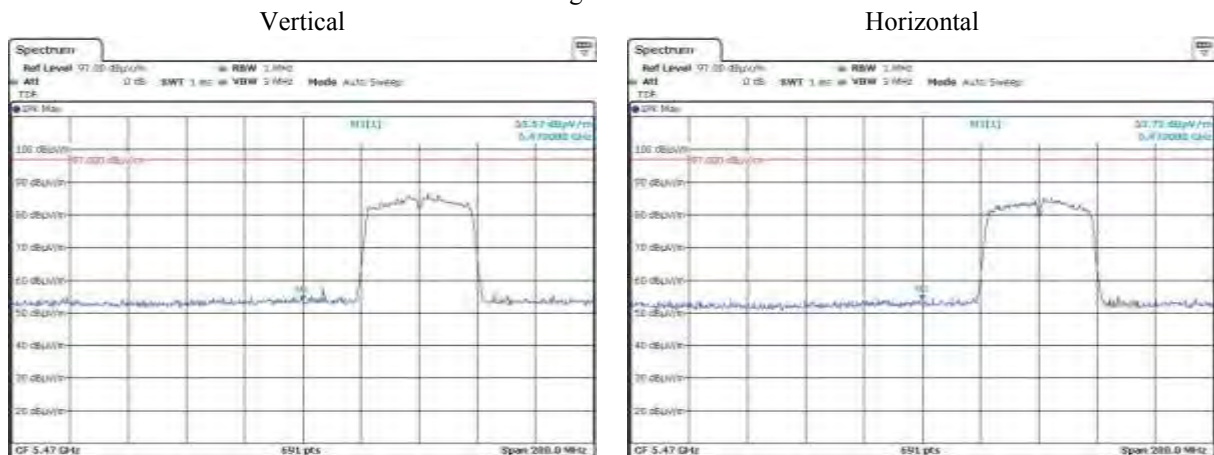
Test Report

Date : 2021-06-08
No. : HM20020027

Page 496 of 514

Unwanted emission
802.11ac VHT40 5510 MHz (CH102)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	53.6	74.0	-20.4
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	H	PK	1	53.7	74.0	-20.3
5470.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

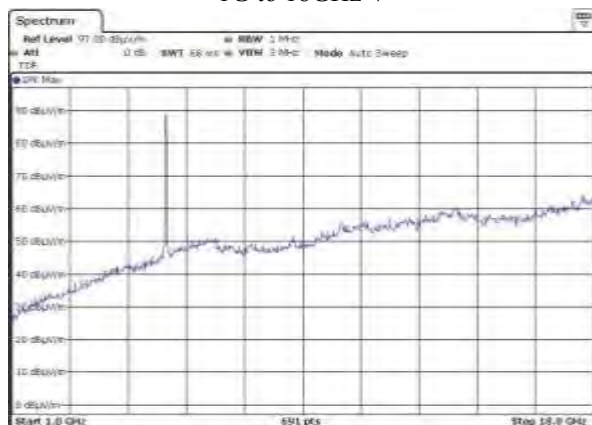
Test Report

Date : 2021-06-08
No. : HM20020027

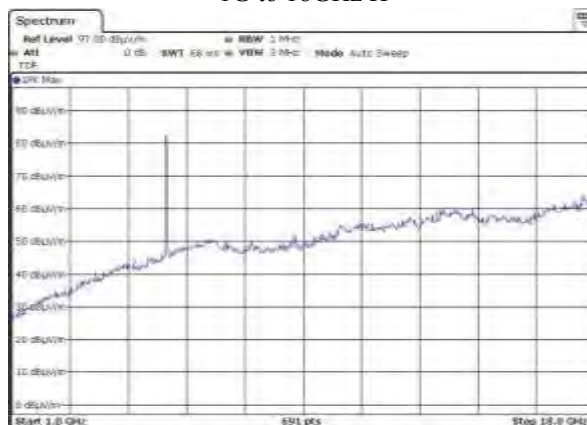
Page 497 of 514

Unwanted emission
802.11ac VHT40 5510 MHz (CH102)
Antenna option 3

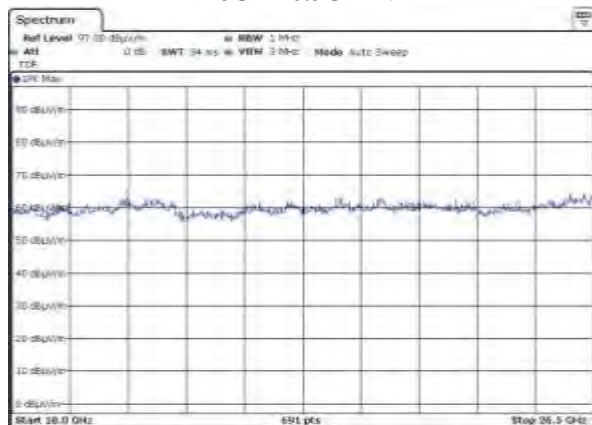
1G to 18GHz V



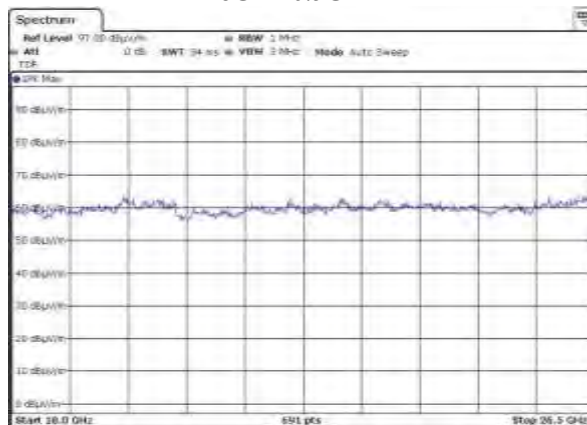
1G to 18GHz H



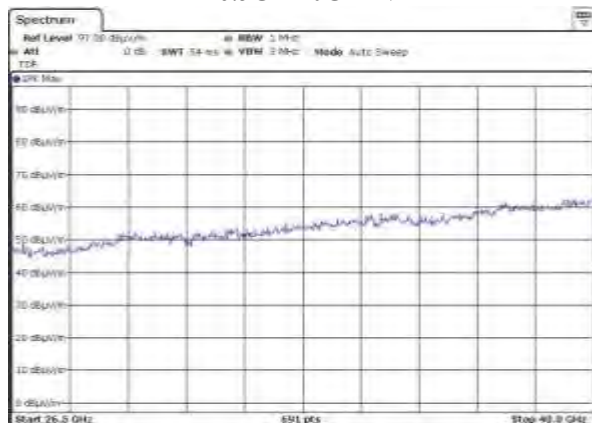
18G – 26.5GHz V



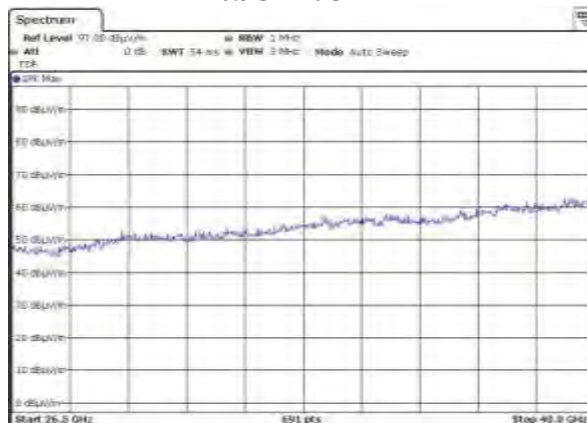
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



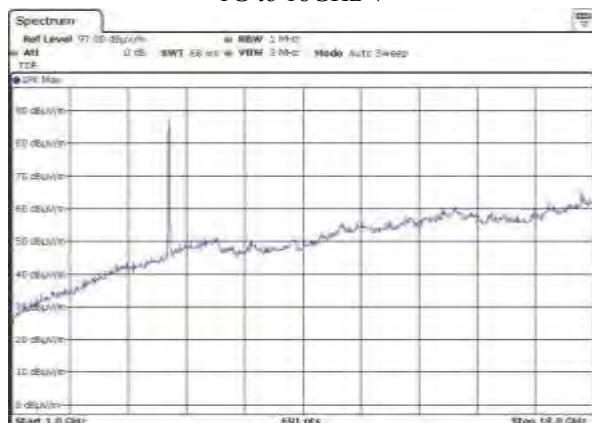
Test Report

Date : 2021-06-08
No. : HM20020027

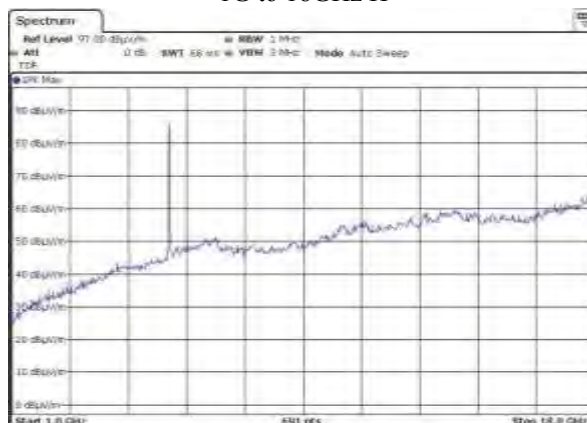
Page 498 of 514

Unwanted emission
802.11ac VHT40 5590 MHz (CH118)
Antenna option 3

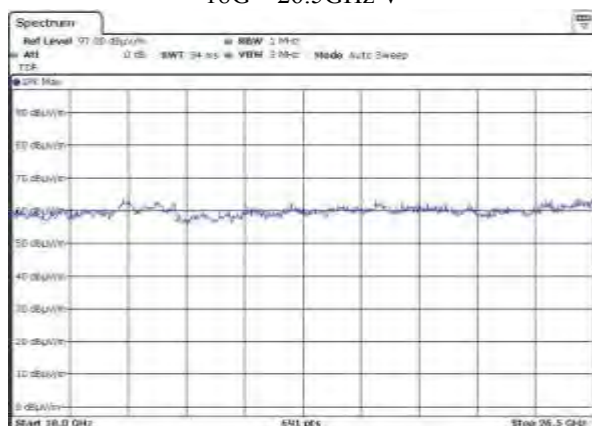
1G to 18GHz V



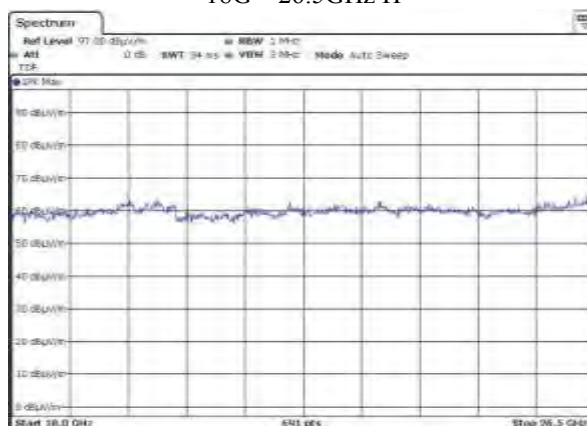
1G to 18GHz H



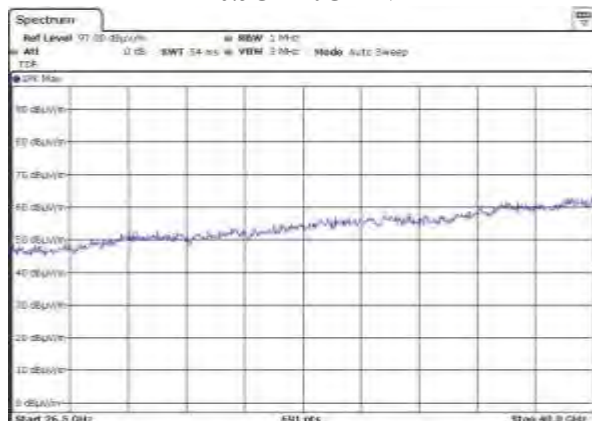
18G – 26.5GHz V



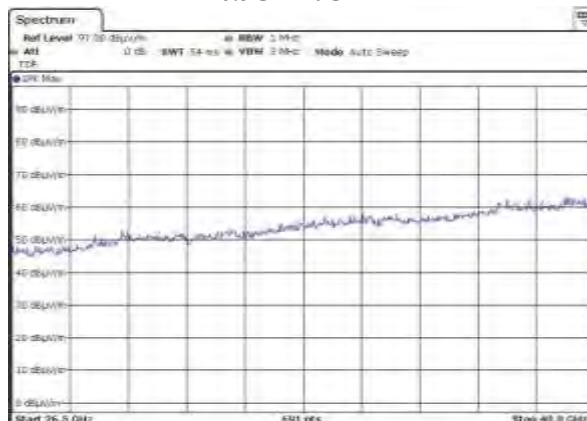
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



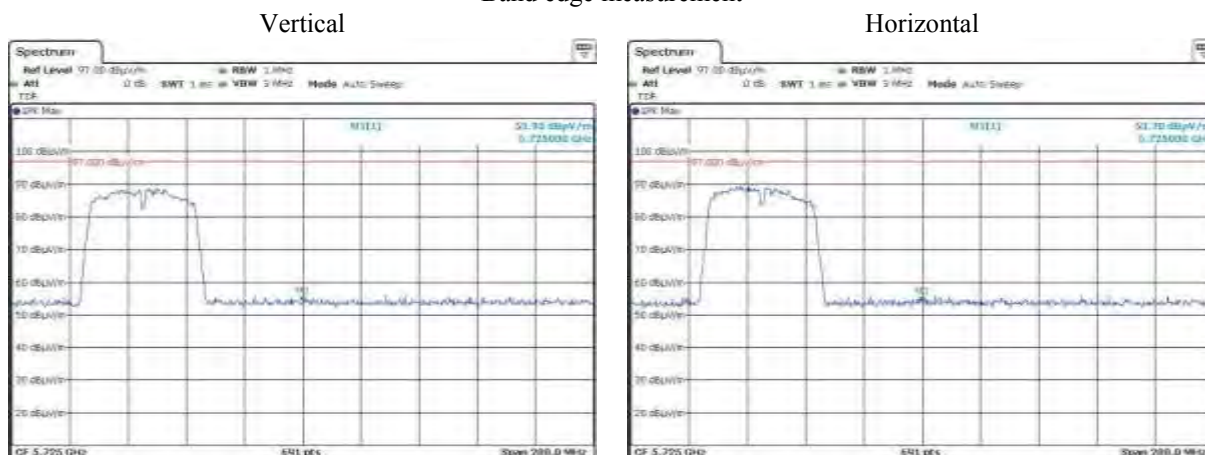
Test Report

Date : 2021-06-08
No. : HM20020027

Page 499 of 514

Unwanted emission
802.11ac VHT40 5670 MHz (CH134)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	54.5	74.0	-19.5
5725.0	V	AV	1	44.9	54.0	-9.1
5725.0	H	PK	1	53.6	74.0	-20.4
5725.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

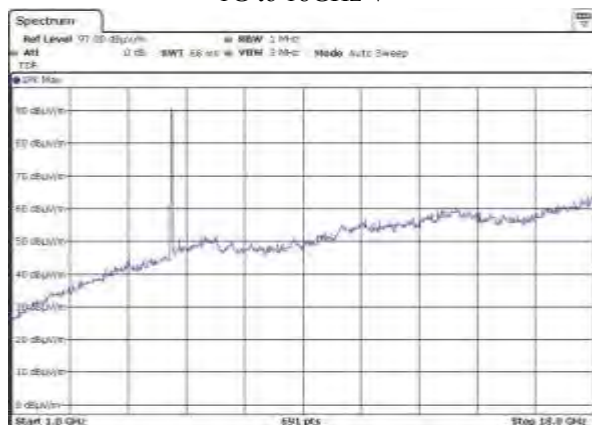
Test Report

Date : 2021-06-08
No. : HM20020027

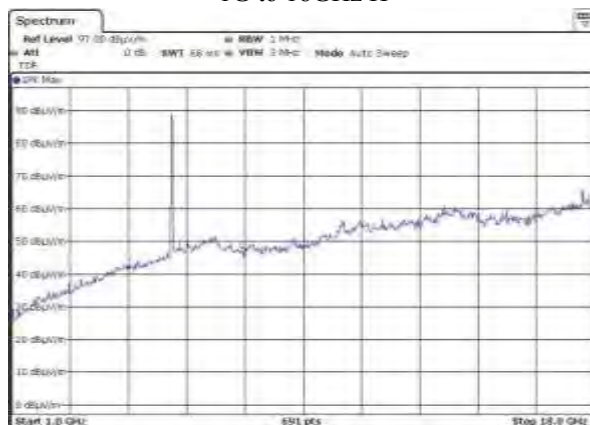
Page 500 of 514

Unwanted emission
802.11ac VHT40 5670 MHz (CH134)
Antenna option 3

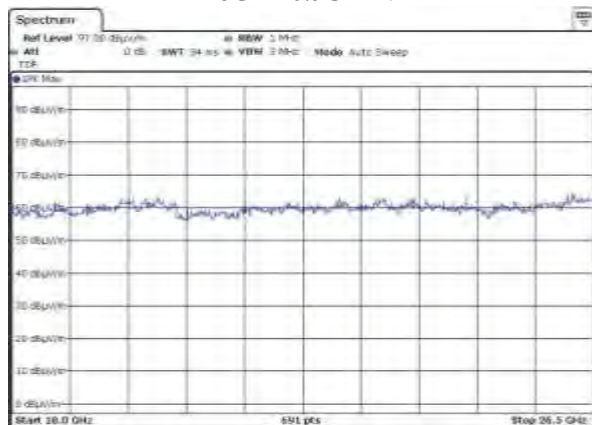
1G to 18GHz V



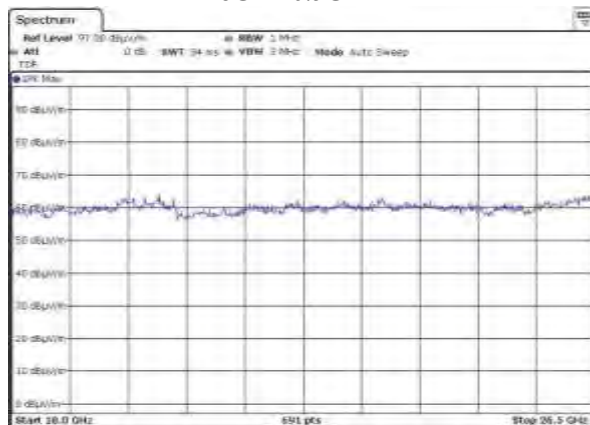
1G to 18GHz H



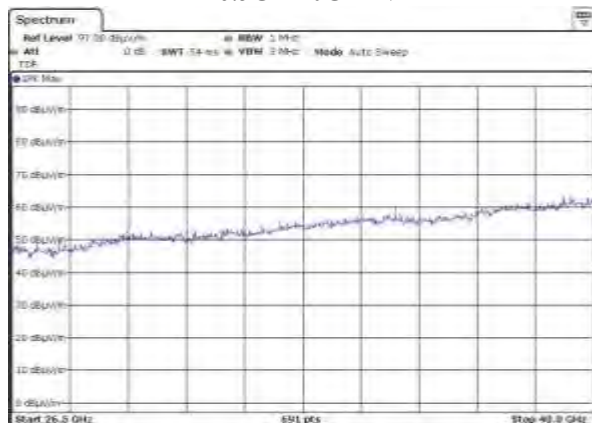
18G – 26.5GHz V



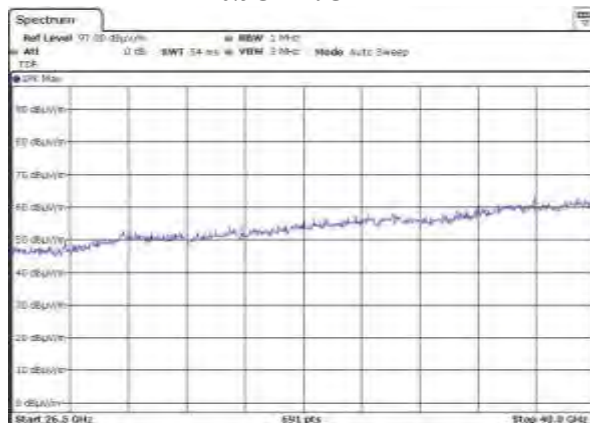
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

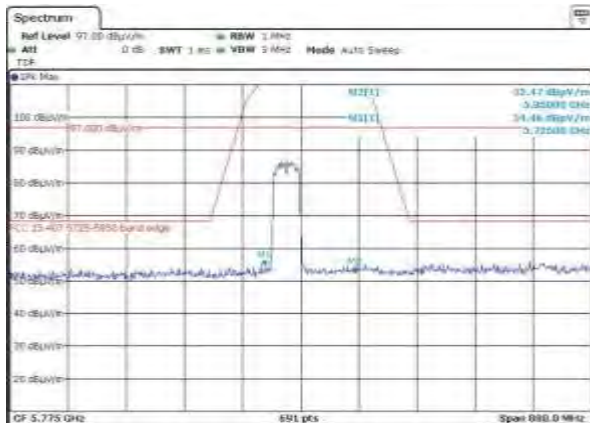
Date : 2021-06-08
No. : HM20020027

Page 501 of 514

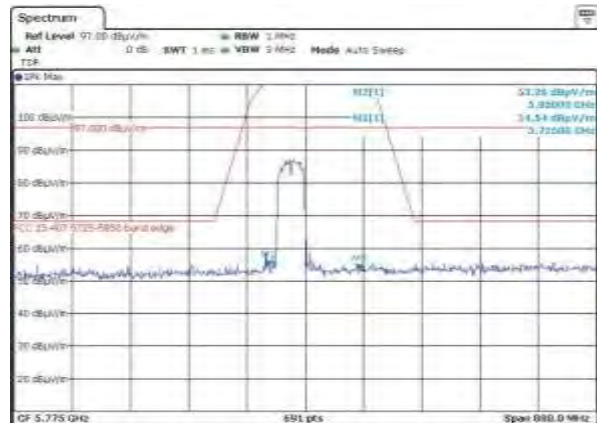
Unwanted emission
802.11ac VHT40 5755 MHz (CH151)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

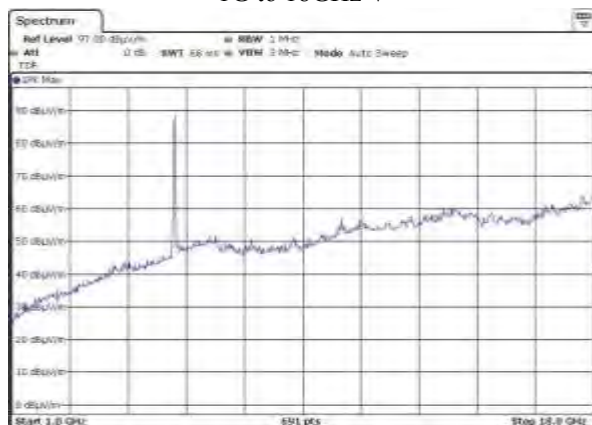
Test Report

Date : 2021-06-08
No. : HM20020027

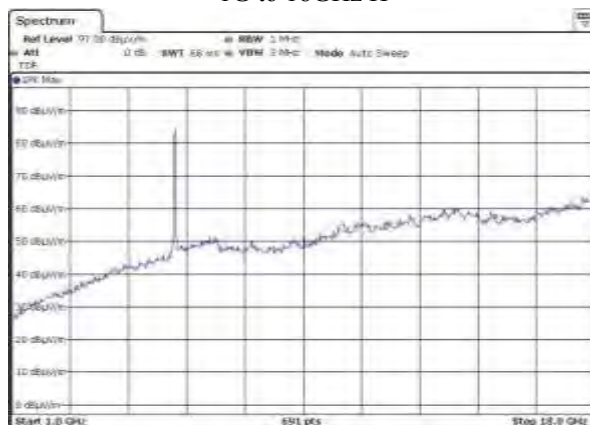
Page 502 of 514

Unwanted emission
802.11ac VHT40 5755 MHz (CH151)
Antenna option 3

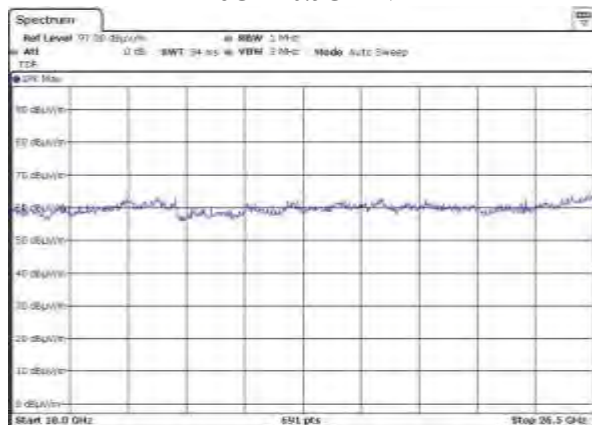
1G to 18GHz V



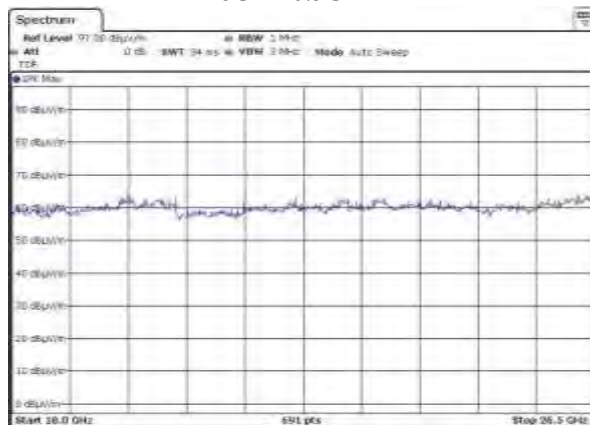
1G to 18GHz H



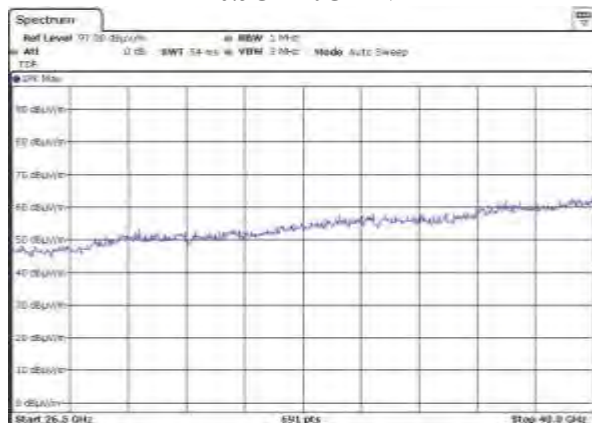
18G – 26.5GHz V



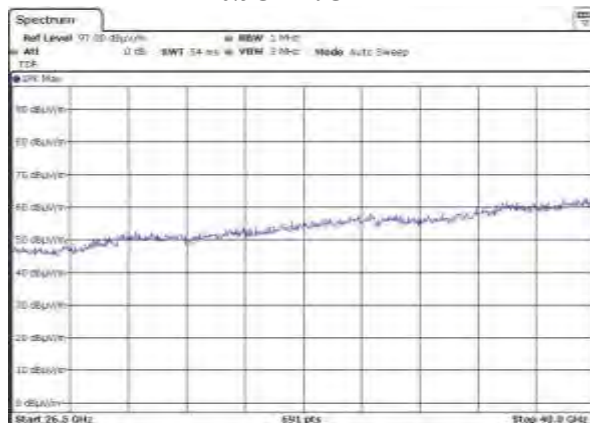
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

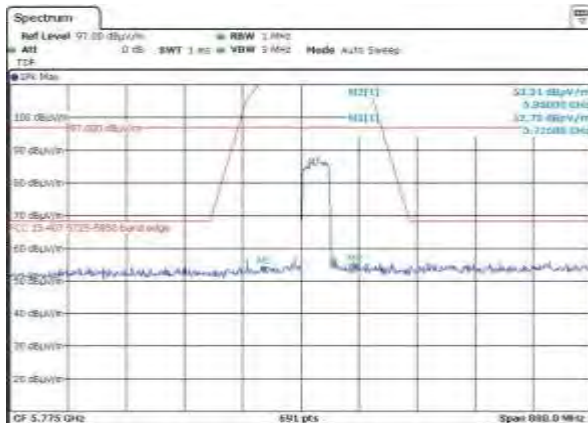
Date : 2021-06-08
No. : HM20020027

Page 503 of 514

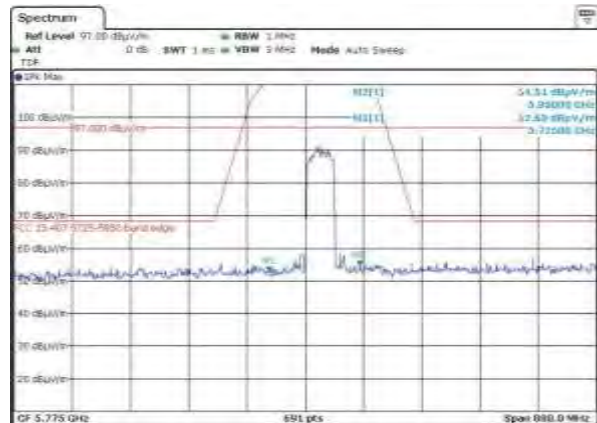
Unwanted emission
802.11ac VHT40 5795 MHz (CH159)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

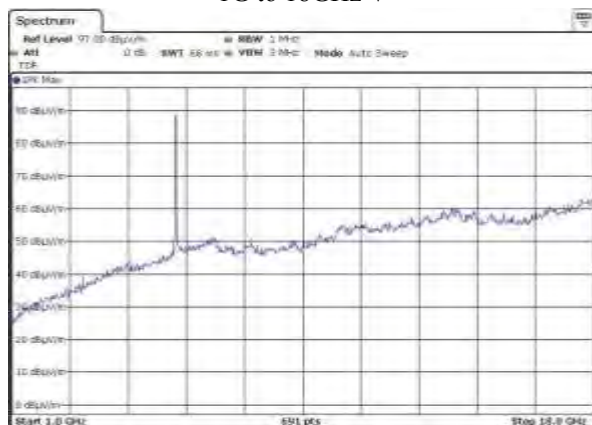
Test Report

Date : 2021-06-08
No. : HM20020027

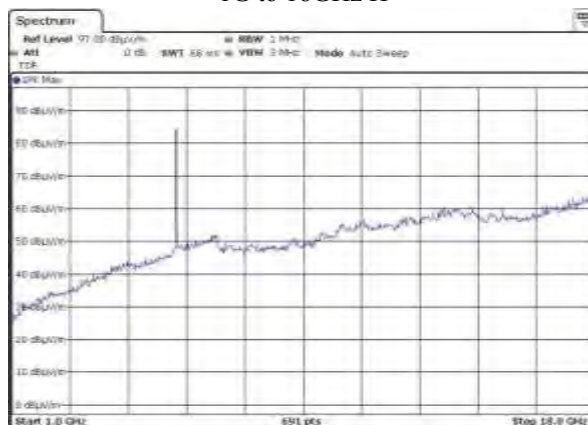
Page 504 of 514

Unwanted emission
802.11ac VHT40 5795 MHz (CH159)
Antenna option 3

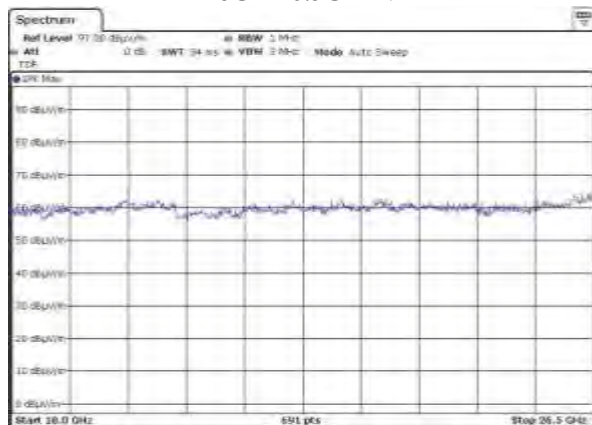
1G to 18GHz V



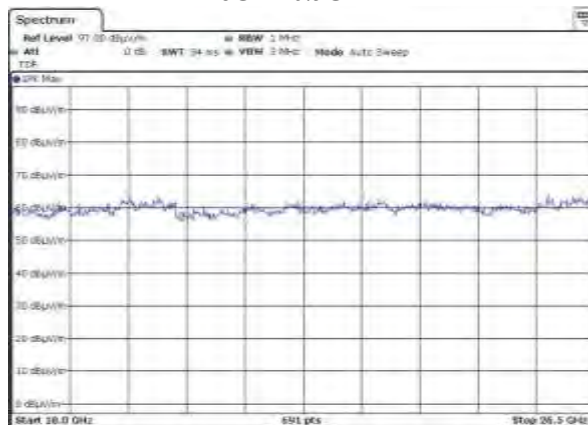
1G to 18GHz H



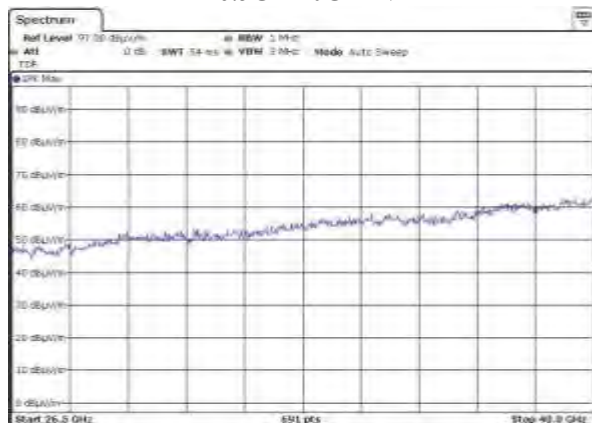
18G – 26.5GHz V



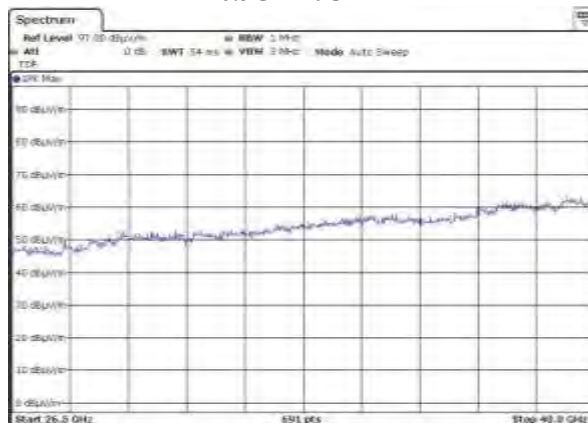
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

Date : 2021-06-08
No. : HM20020027

Page 505 of 514

Unwanted emission
802.11ac VHT80 5210 MHz (CH42)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5150.0	V	PK	1	53.4	74.0	-14.9
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	H	PK	1	52.3	74.0	-20.9
5150.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

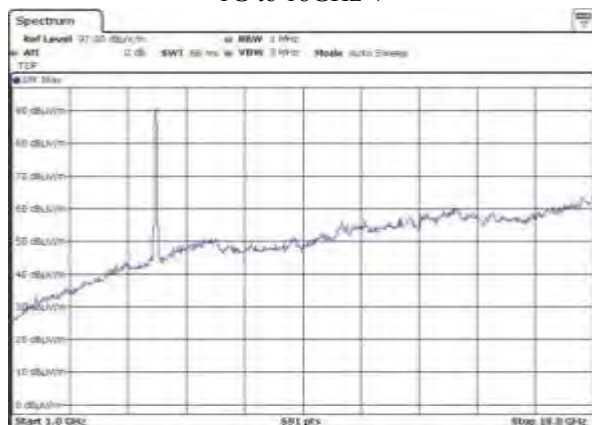
Test Report

Date : 2021-06-08
No. : HM20020027

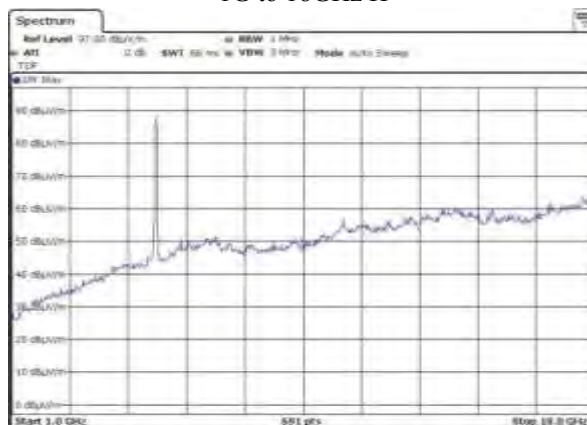
Page 506 of 514

Unwanted emission
802.11ac VHT80 5210 MHz (CH42)
Antenna option 3

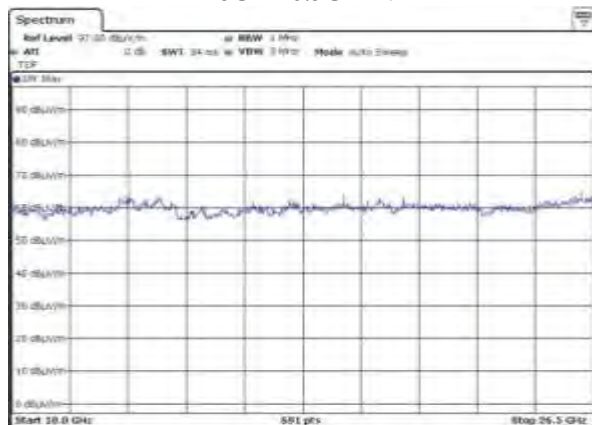
1G to 18GHz V



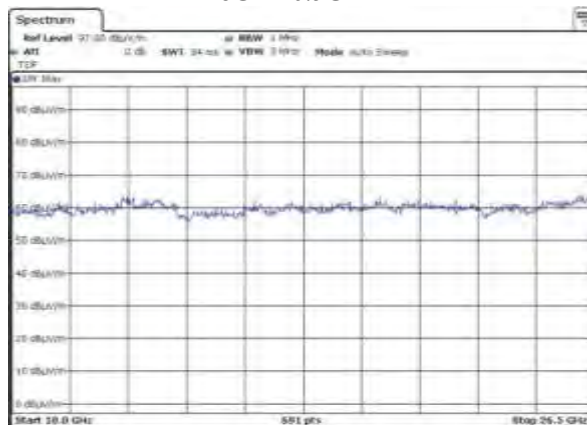
1G to 18GHz H



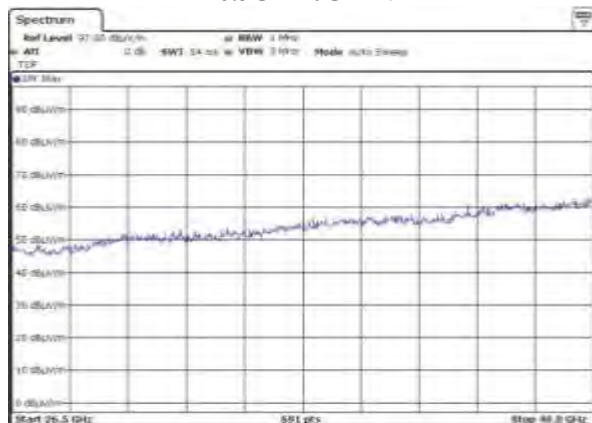
18G – 26.5GHz V



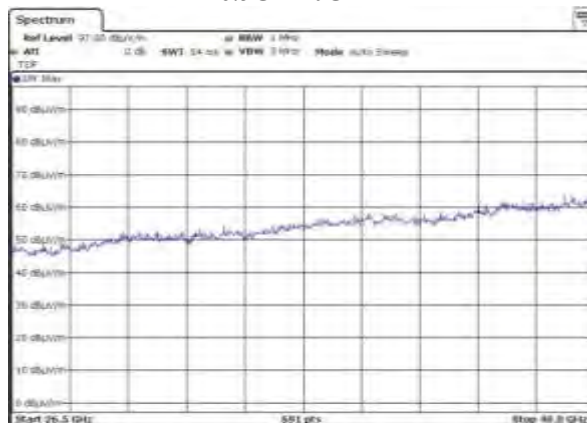
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



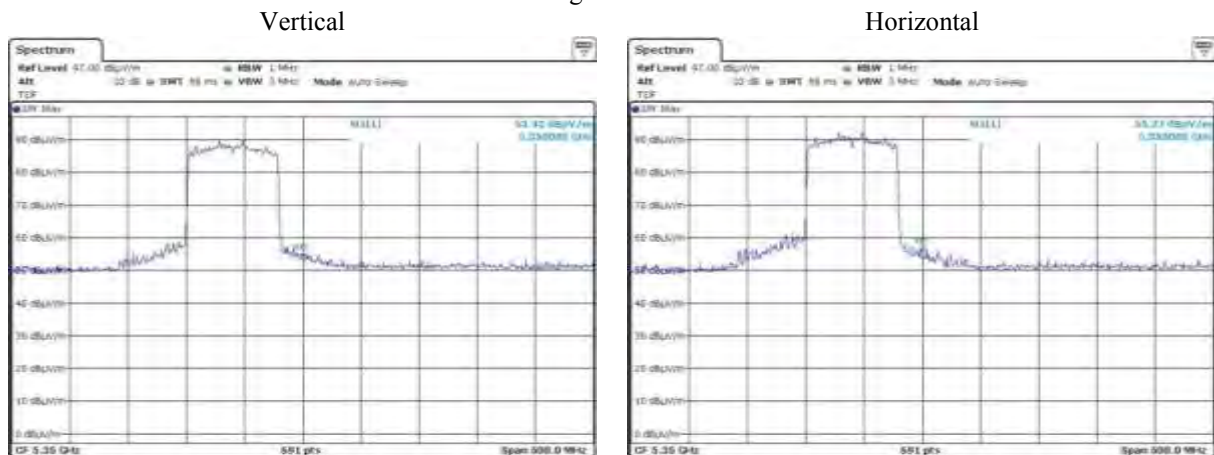
Test Report

Date : 2021-06-08
No. : HM20020027

Page 507 of 514

Unwanted emission
802.11ac VHT80 5290 MHz (CH58)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5350.0	V	PK	1	53.4	74.0	-20.6
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	H	PK	1	55.3	74.0	-18.7
5350.0	H	AV	1	45.0	54.0	-9.0

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

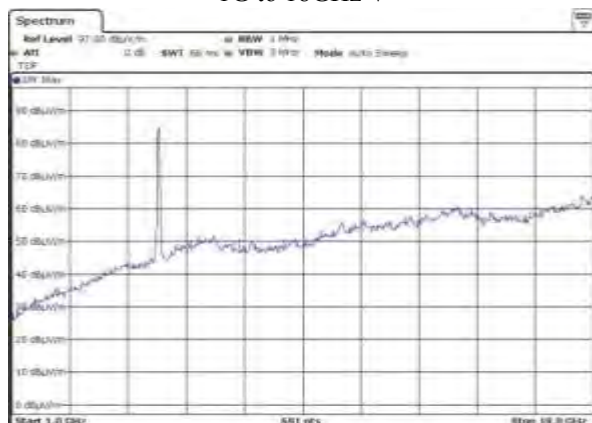
Test Report

Date : 2021-06-08
No. : HM20020027

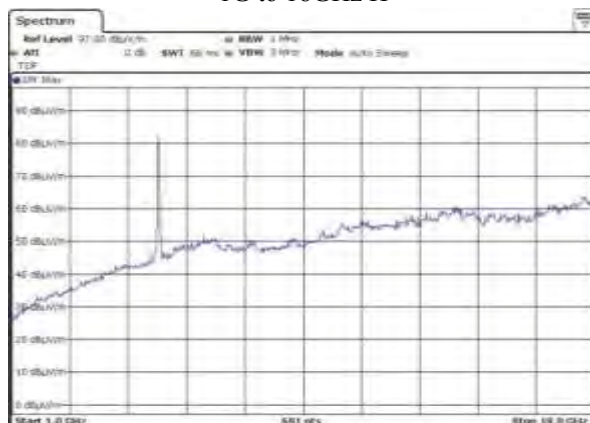
Page 508 of 514

Unwanted emission
802.11ac VHT80 5290 MHz (CH58)
Antenna option 3

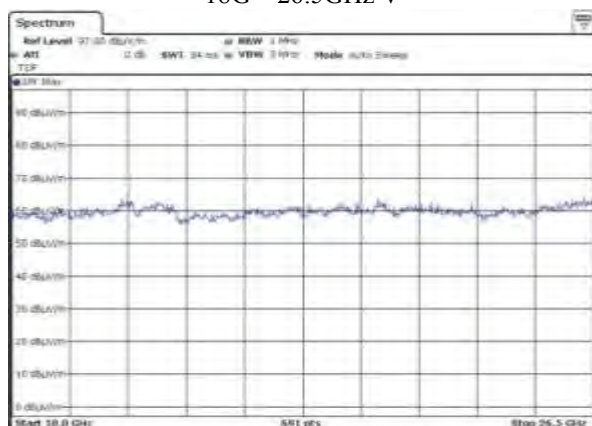
1G to 18GHz V



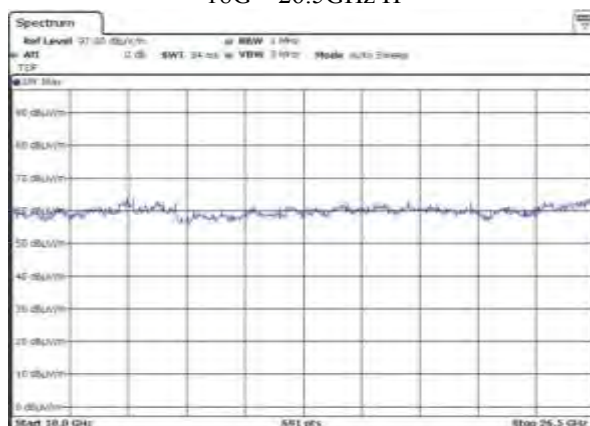
1G to 18GHz H



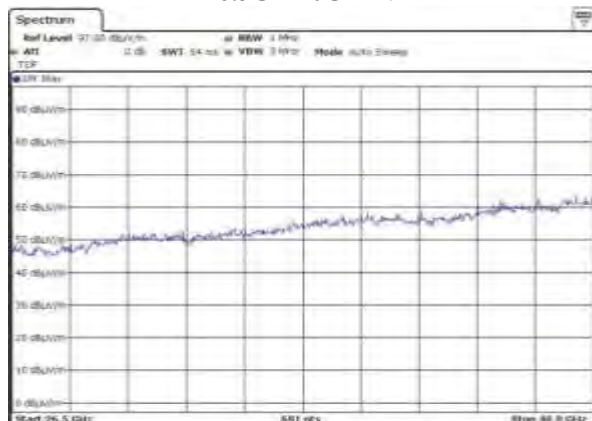
18G – 26.5GHz V



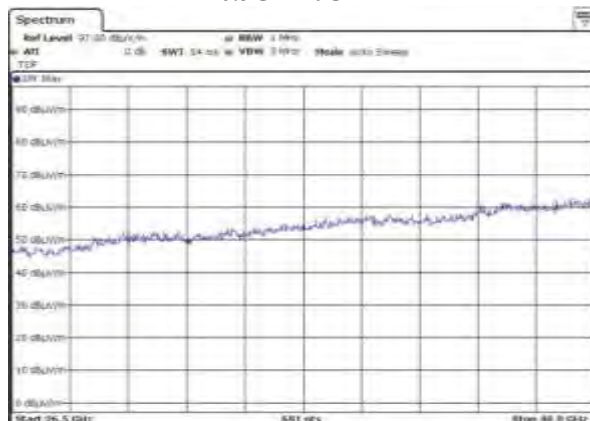
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

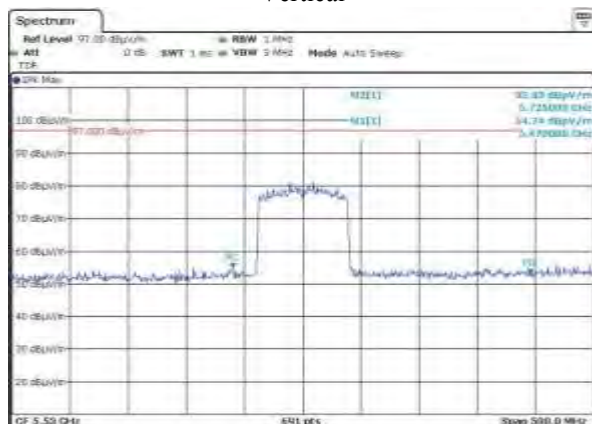
Date : 2021-06-08
No. : HM20020027

Page 509 of 514

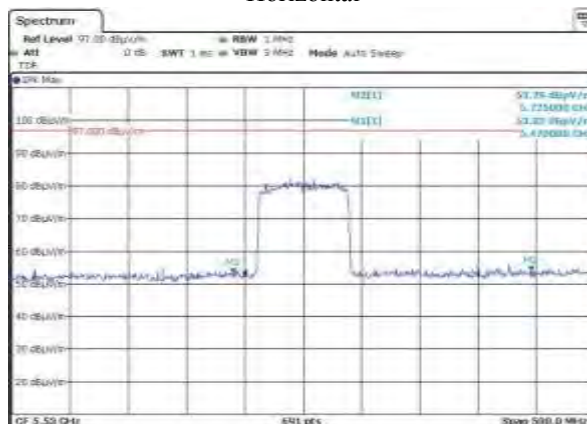
Unwanted emission
802.11ac VHT80 5530 MHz (CH106)
Antenna option 3

Band edge measurement

Vertical



Horizontal



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5470.0	V	PK	1	54.7	74.0	-19.3
5470.0	V	AV	1	44.9	54.0	-9.1
5470.0	H	PK	1	53.0	74.0	-21.0
5470.0	H	AV	1	PK < AV	54.0	N/A
5725.0	V	PK	1	52.8	74.0	-21.2
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	H	PK	1	53.8	74.0	-20.2
5725.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

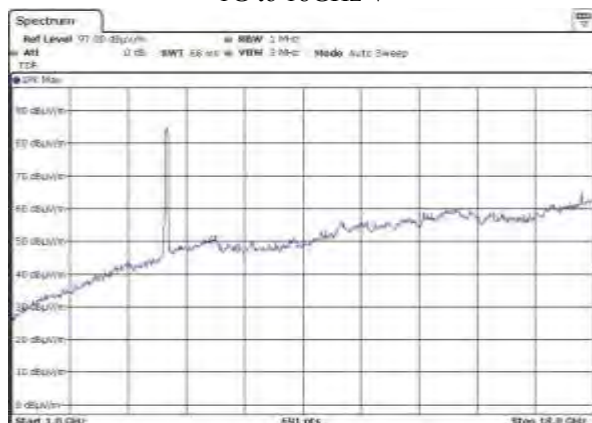
Test Report

Date : 2021-06-08
No. : HM20020027

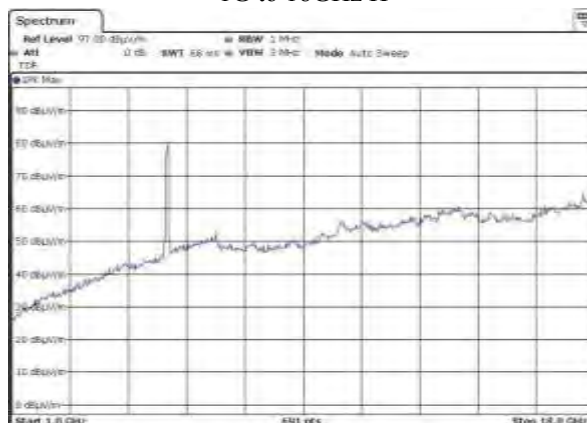
Page 510 of 514

Unwanted emission
802.11ac VHT80 5530 MHz (CH106)
Antenna option 3

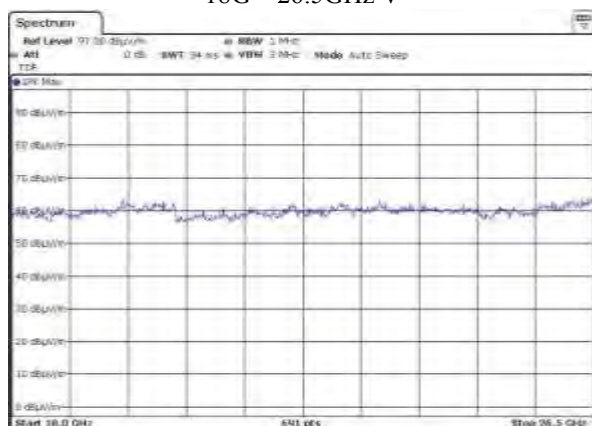
1G to 18GHz V



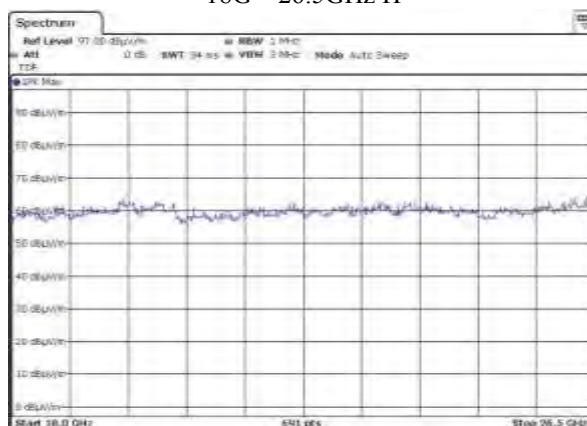
1G to 18GHz H



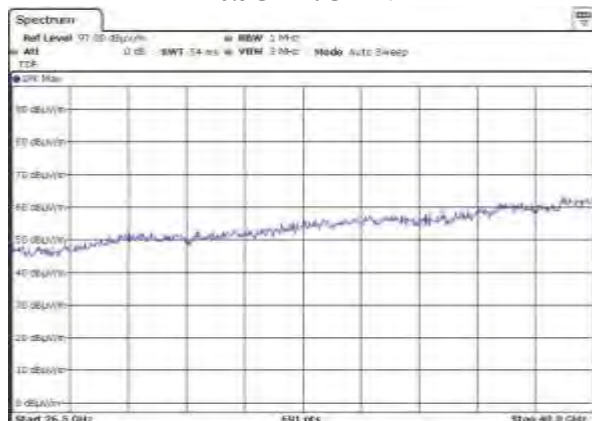
18G – 26.5GHz V



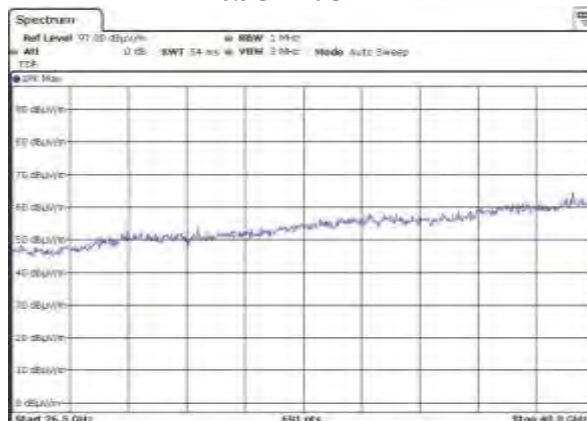
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



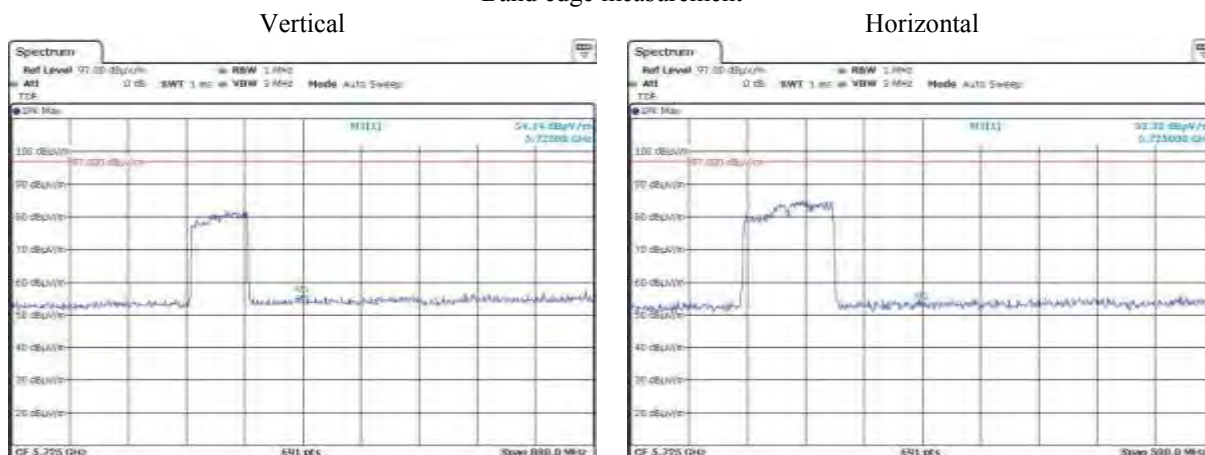
Test Report

Date : 2021-06-08
No. : HM20020027

Page 511 of 514

Unwanted emission
802.11ac VHT80 5610 MHz (CH122)
Antenna option 3

Band edge measurement



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5725.0	V	PK	1	54.1	74.0	-19.9
5725.0	V	AV	1	45.1	54.0	-8.9
5725.0	H	PK	1	52.3	74.0	-21.7
5725.0	H	AV	1	PK < AV	54.0	N/A

Measured Level [dBμV/m] = Reading of test receiver [dBμV] + correction factor

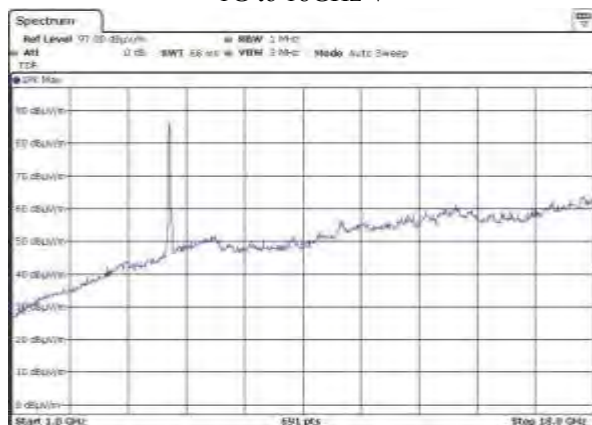
Test Report

Date : 2021-06-08
No. : HM20020027

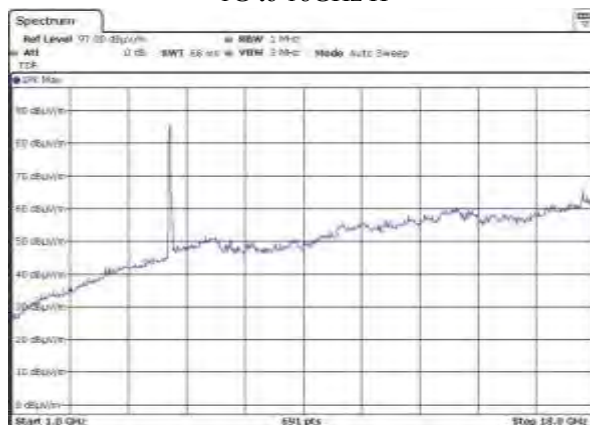
Page 512 of 514

Unwanted emission
802.11ac VHT80 5610 MHz (CH122)
Antenna option 3

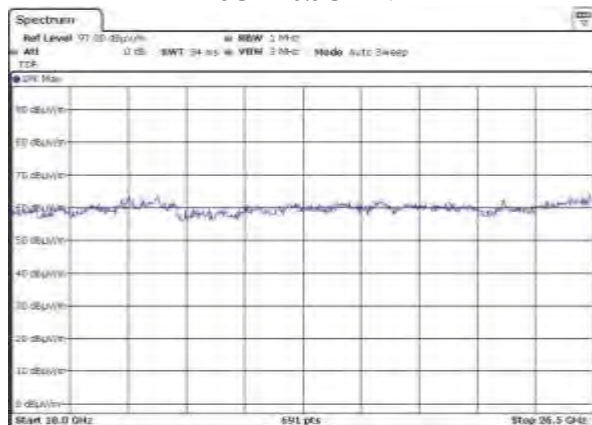
1G to 18GHz V



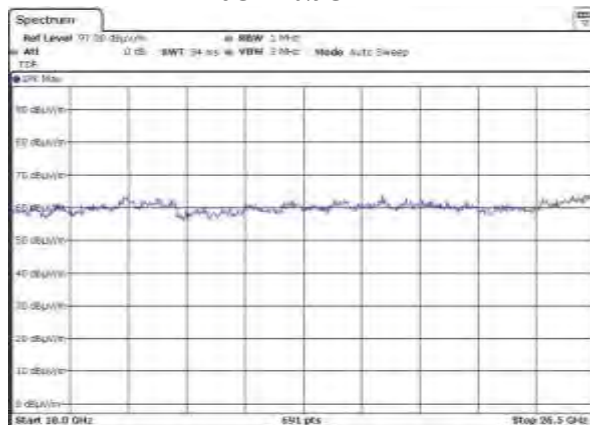
1G to 18GHz H



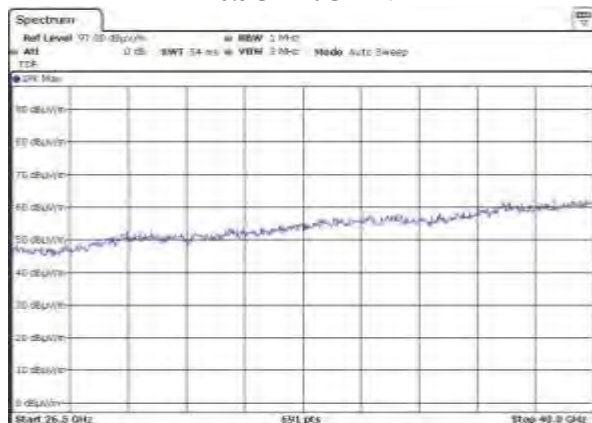
18G – 26.5GHz V



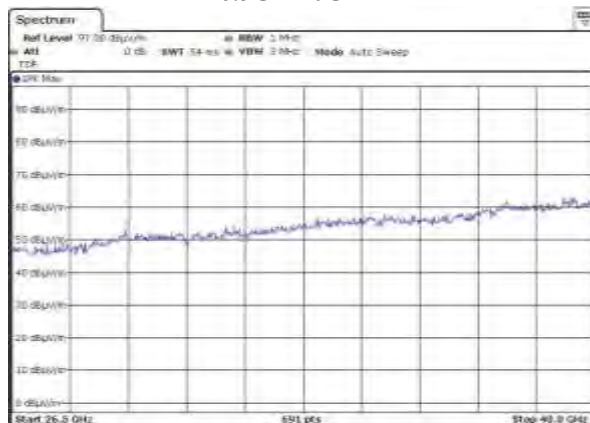
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



Test Report

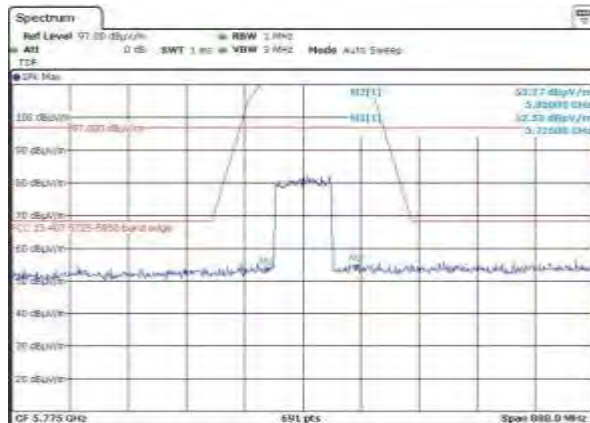
Date : 2021-06-08
No. : HM20020027

Page 513 of 514

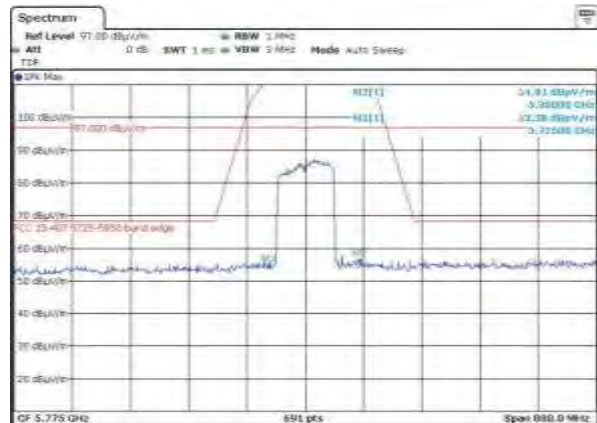
Unwanted emission
802.11ac VHT80 5775 MHz (CH155)
Antenna option 3

Band edge measurement

Vertical



Horizontal



No Emission found outside the 5725 MHz – 5850 MHz.

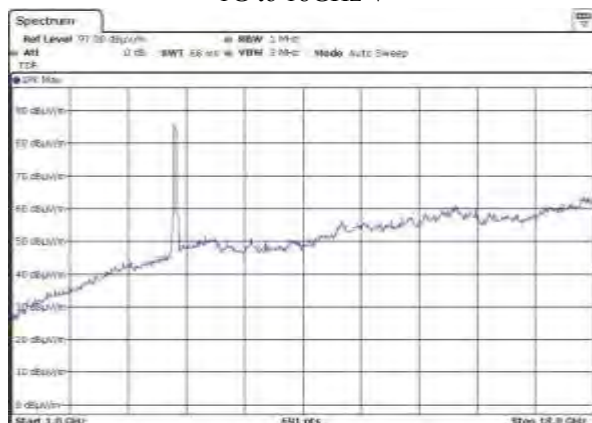
Test Report

Date : 2021-06-08
No. : HM20020027

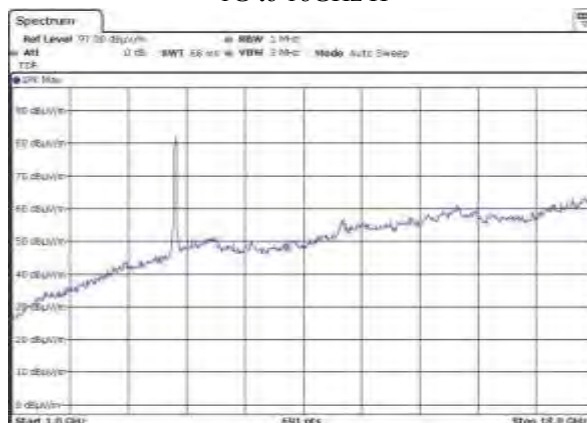
Page 514 of 514

Unwanted emission
802.11ac VHT80 5775 MHz (CH155)
Antenna option 3

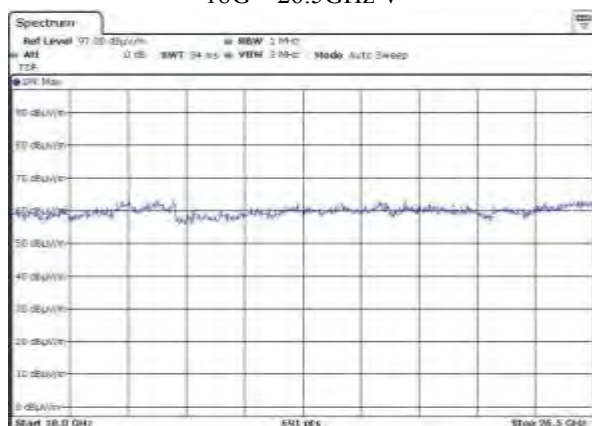
1G to 18GHz V



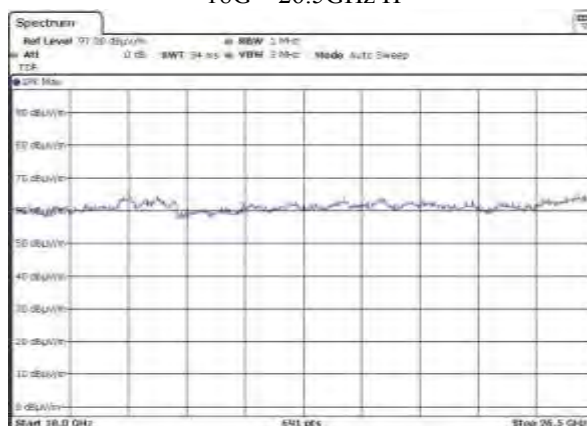
1G to 18GHz H



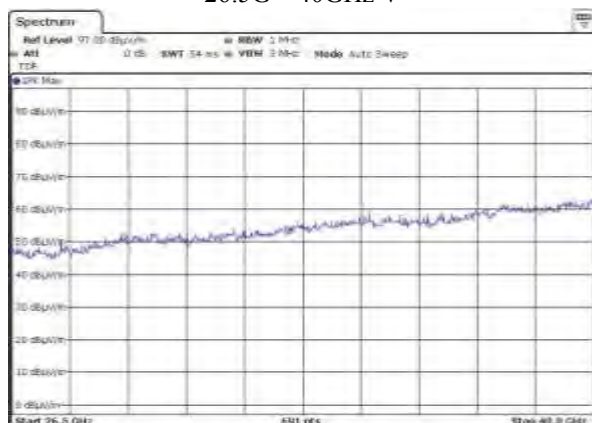
18G – 26.5GHz V



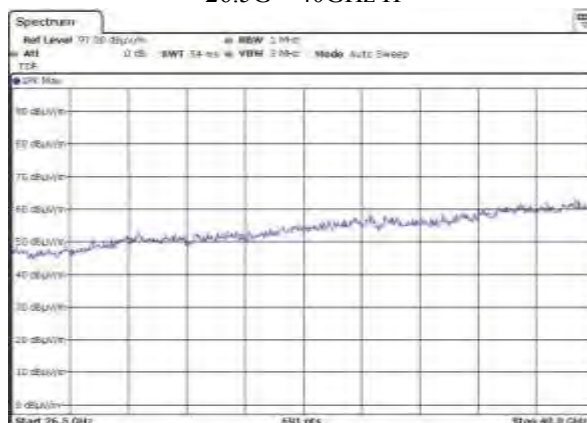
18G – 26.5GHz H



26.5G – 40GHz V



26.5G – 40GHz H



***** End of Test Report *****

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by the Company as a result of this application for testing service (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3, the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
7. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.