

UNII-2c IEEE 802.11ac VHT80 mode- chain 0

Low CH

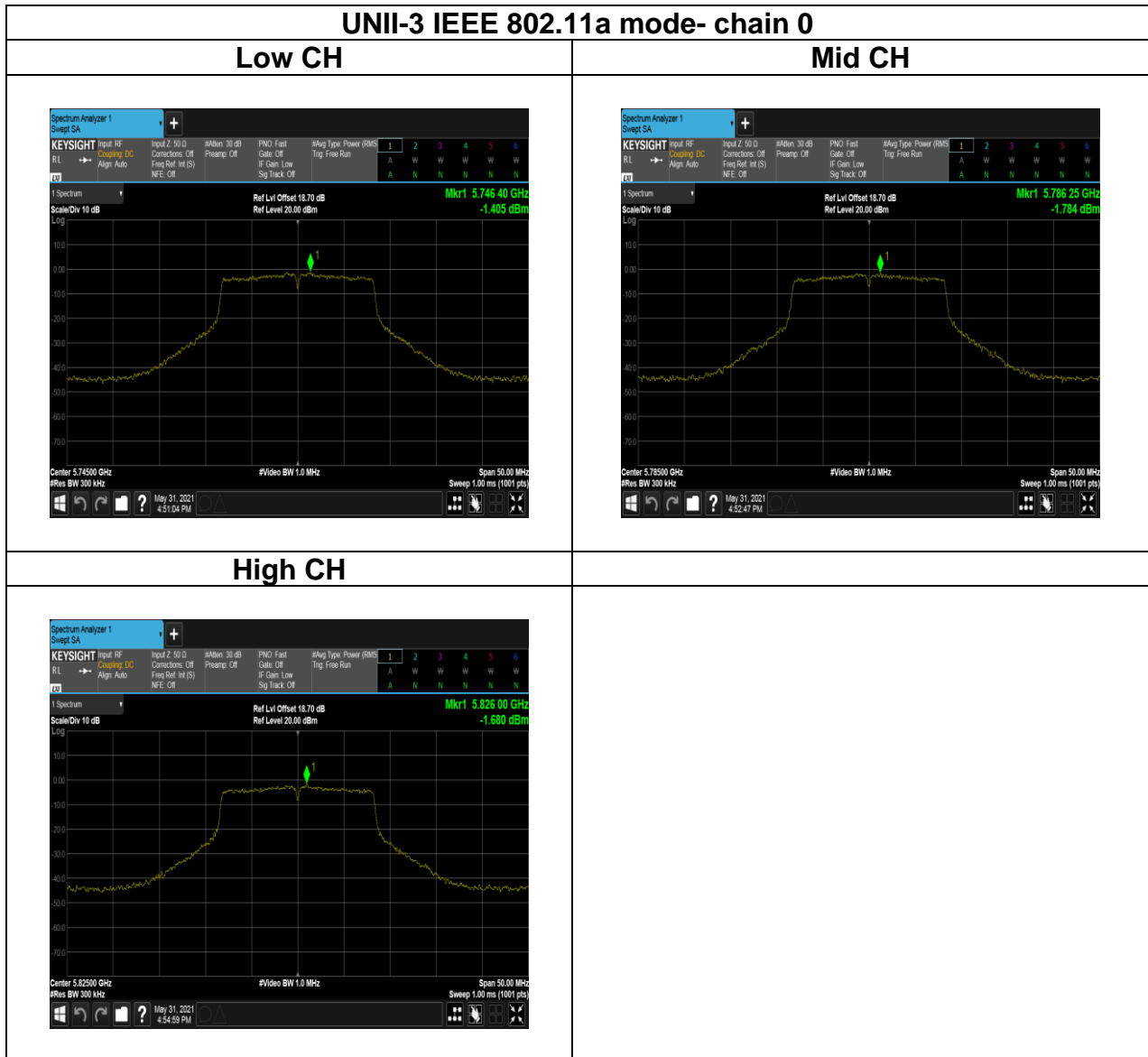


High CH



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Test Data



Report No.: T200522D10-RP4

UNII-3 IEEE 802.11n HT20 mode- chain 0

Low CH



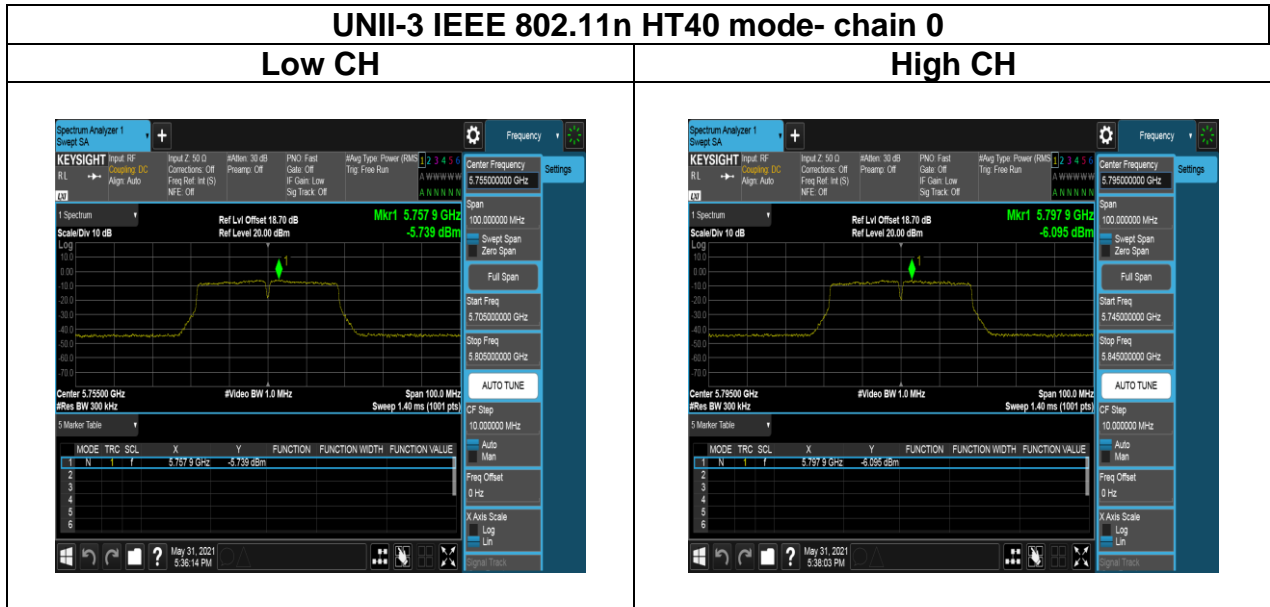
Mid CH



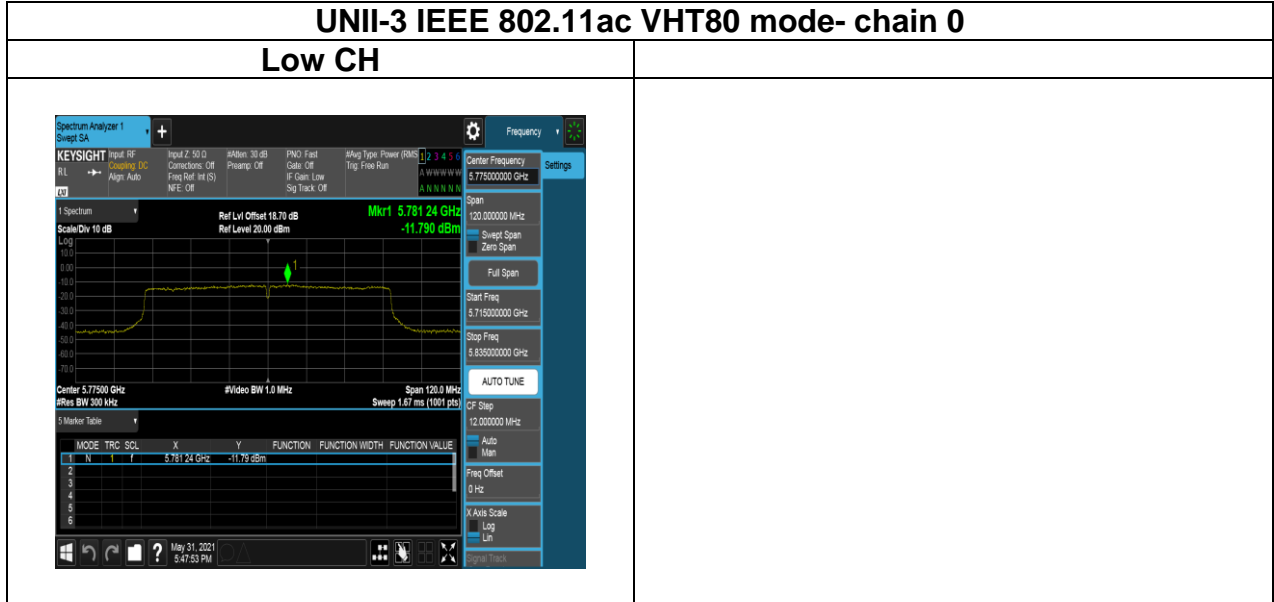
High CH



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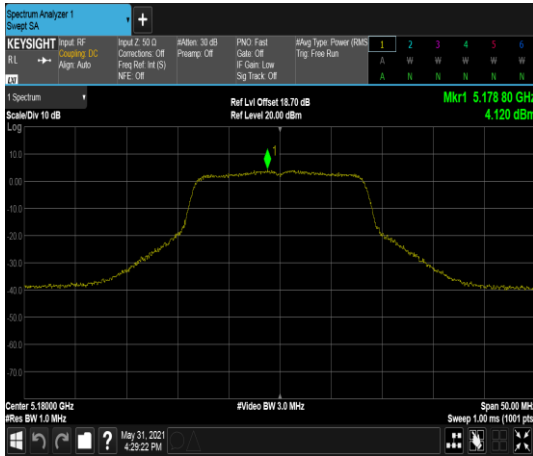
Report No.: T200522D10-RP4

Test Data

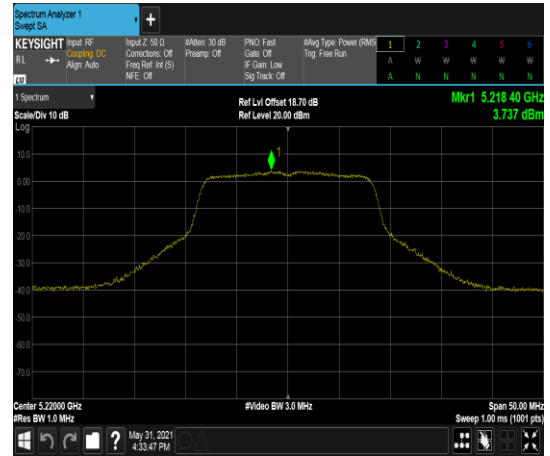
Chain 1

UNII-1 IEEE 802.11a mode- chain 1

Low CH



Mid CH



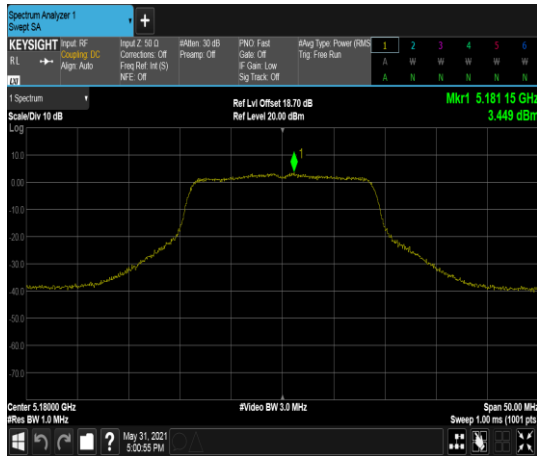
High CH



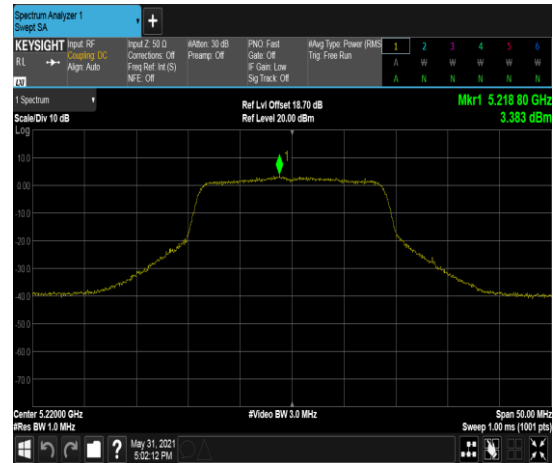
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UNII-1 IEEE 802.11n HT20 mode- chain 1

Low CH



Mid CH



High CH



Report No.: T200522D10-RP4

UNII-1 IEEE 802.11n HT40 mode- chain 1

Low CH



High CH



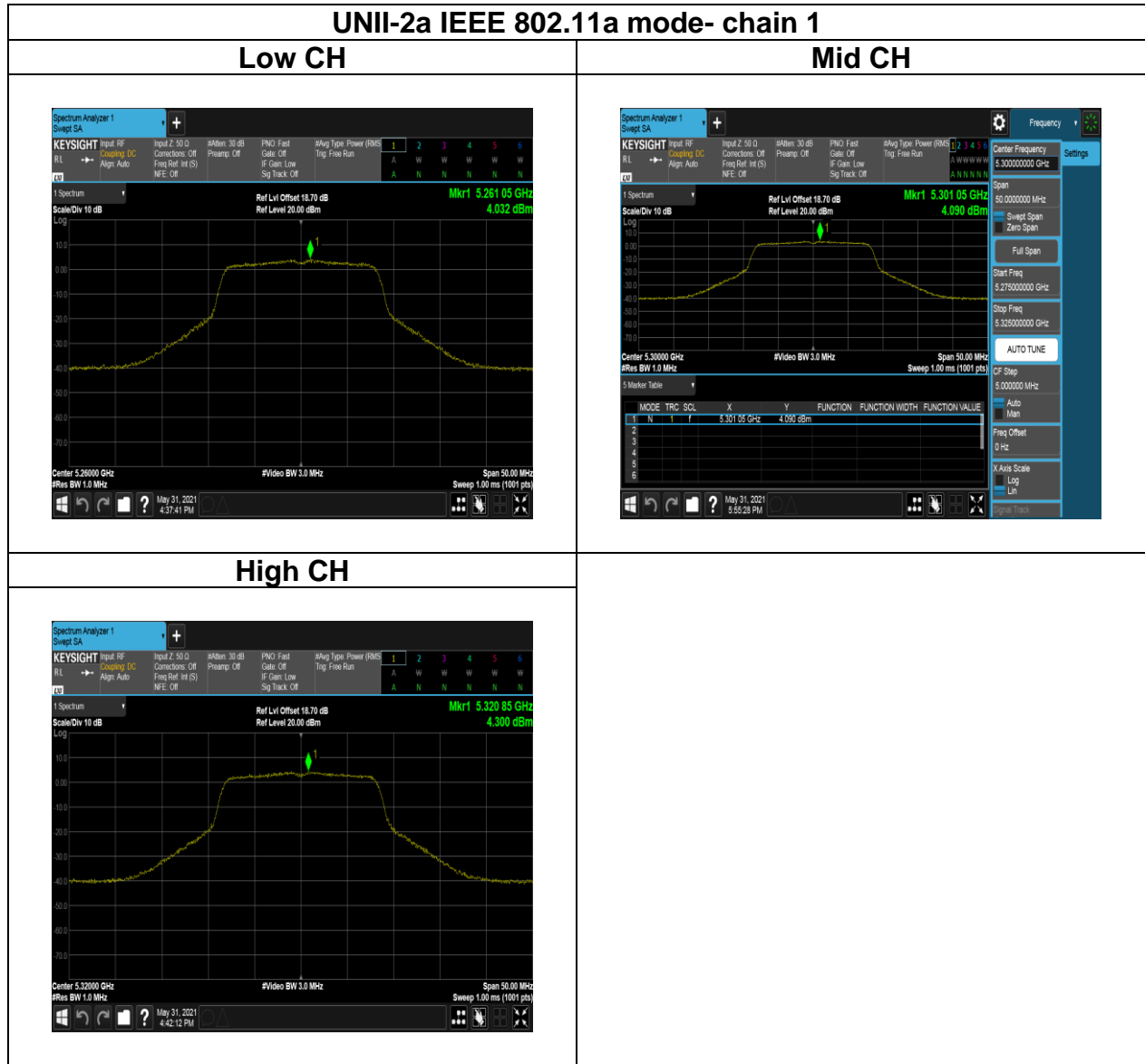
UNII-1 IEEE 802.11ac VHT80 mode- chain 1

Low CH



Report No.: T200522D10-RP4

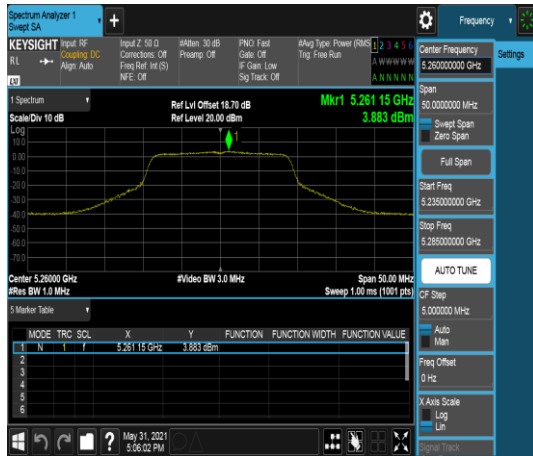
Test Data



Report No.: T200522D10-RP4

UNII-2a IEEE 802.11n HT20 mode- chain 1

Low CH



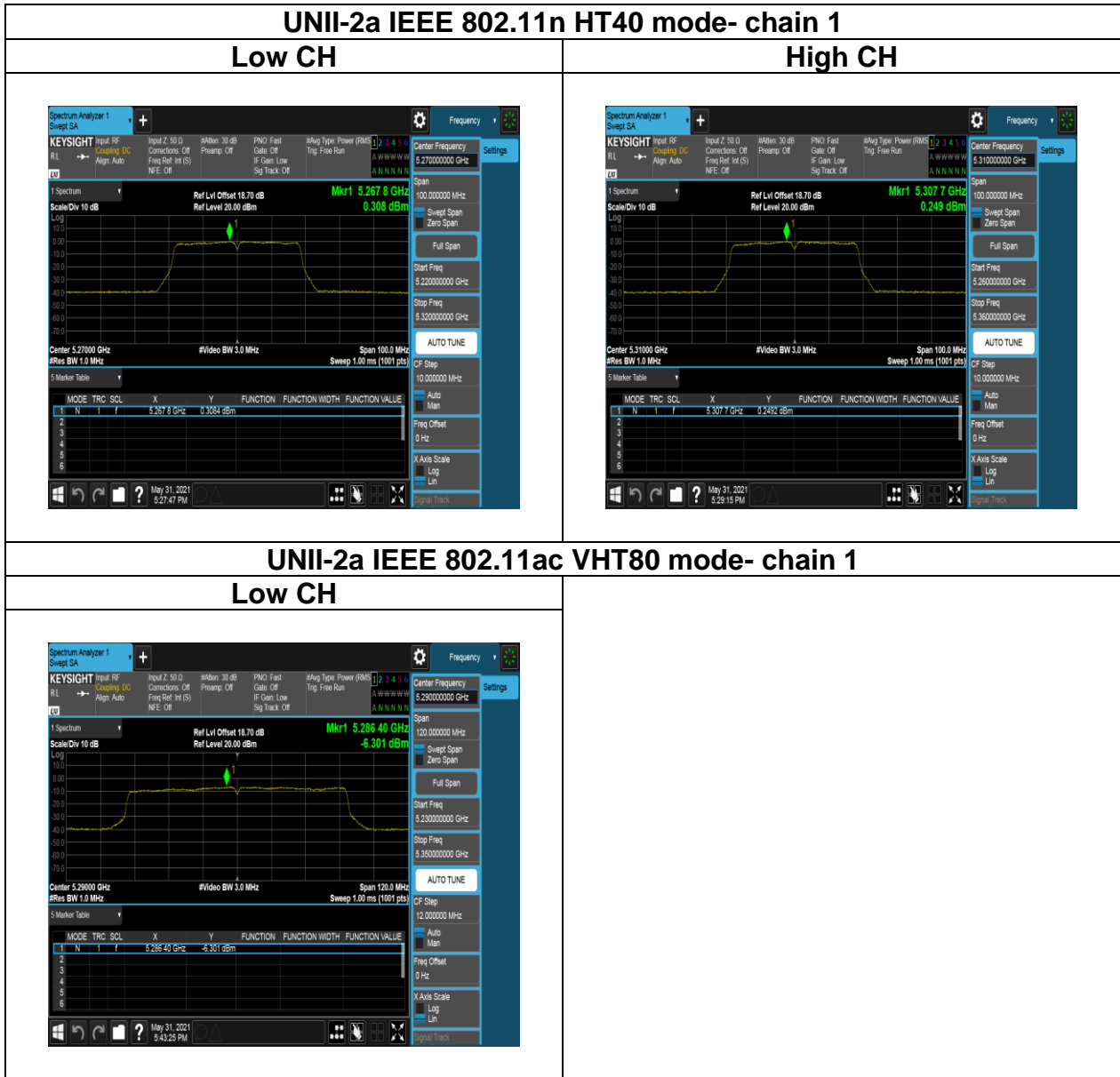
Mid CH



High CH

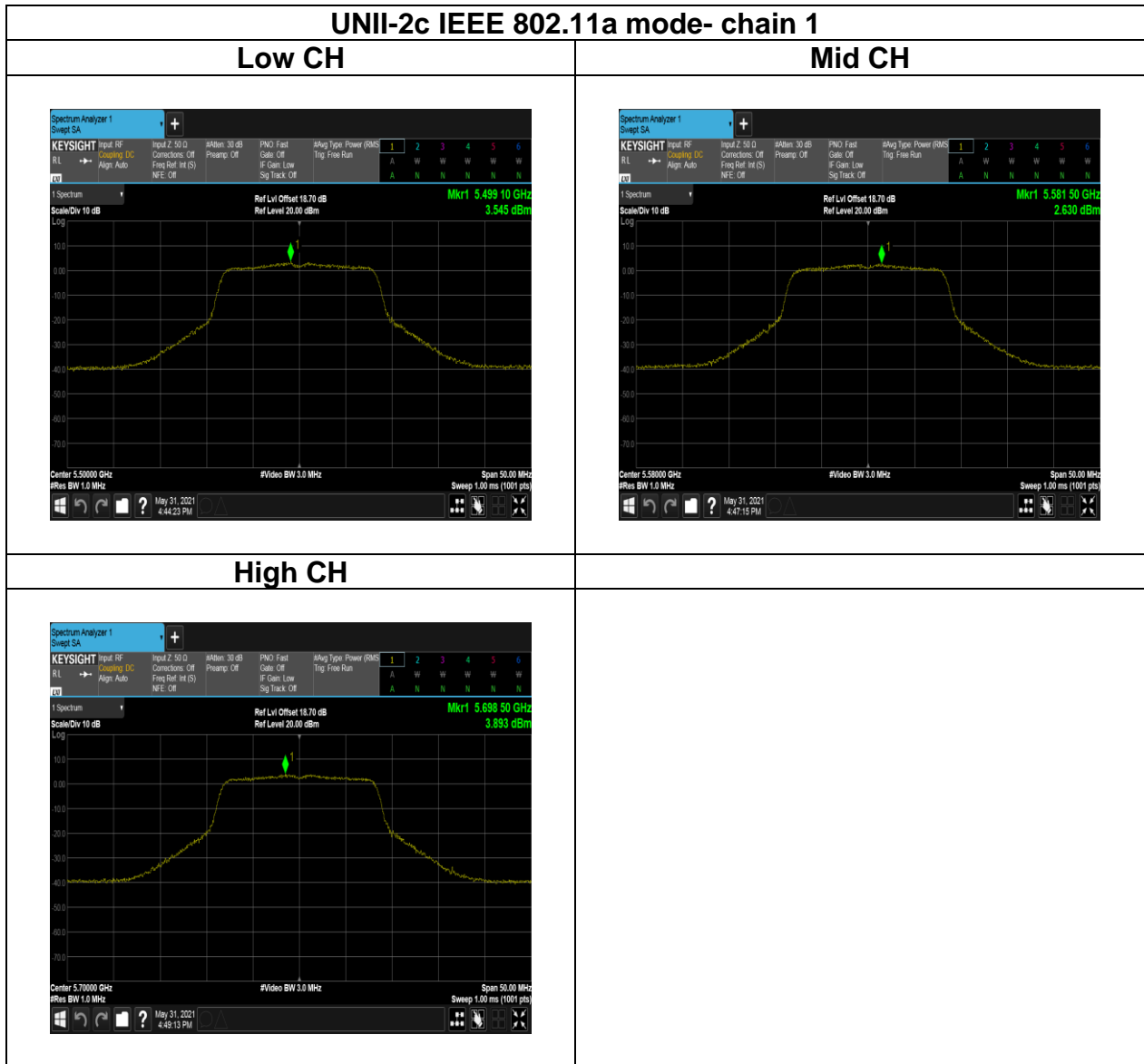


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Report No.: T200522D10-RP4

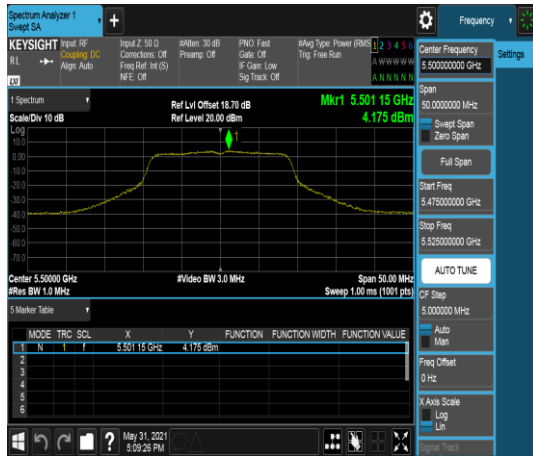
Test Data



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UNII-2c IEEE 802.11n HT20 mode- chain 1

Low CH



Mid CH



High CH



Report No.: T200522D10-RP4

UNII-2c IEEE 802.11n HT40 mode- chain 1

Low CH



Mid CH



High CH



Report No.: T200522D10-RP4

UNII-2c IEEE 802.11ac VHT80 mode- chain 1

Low CH

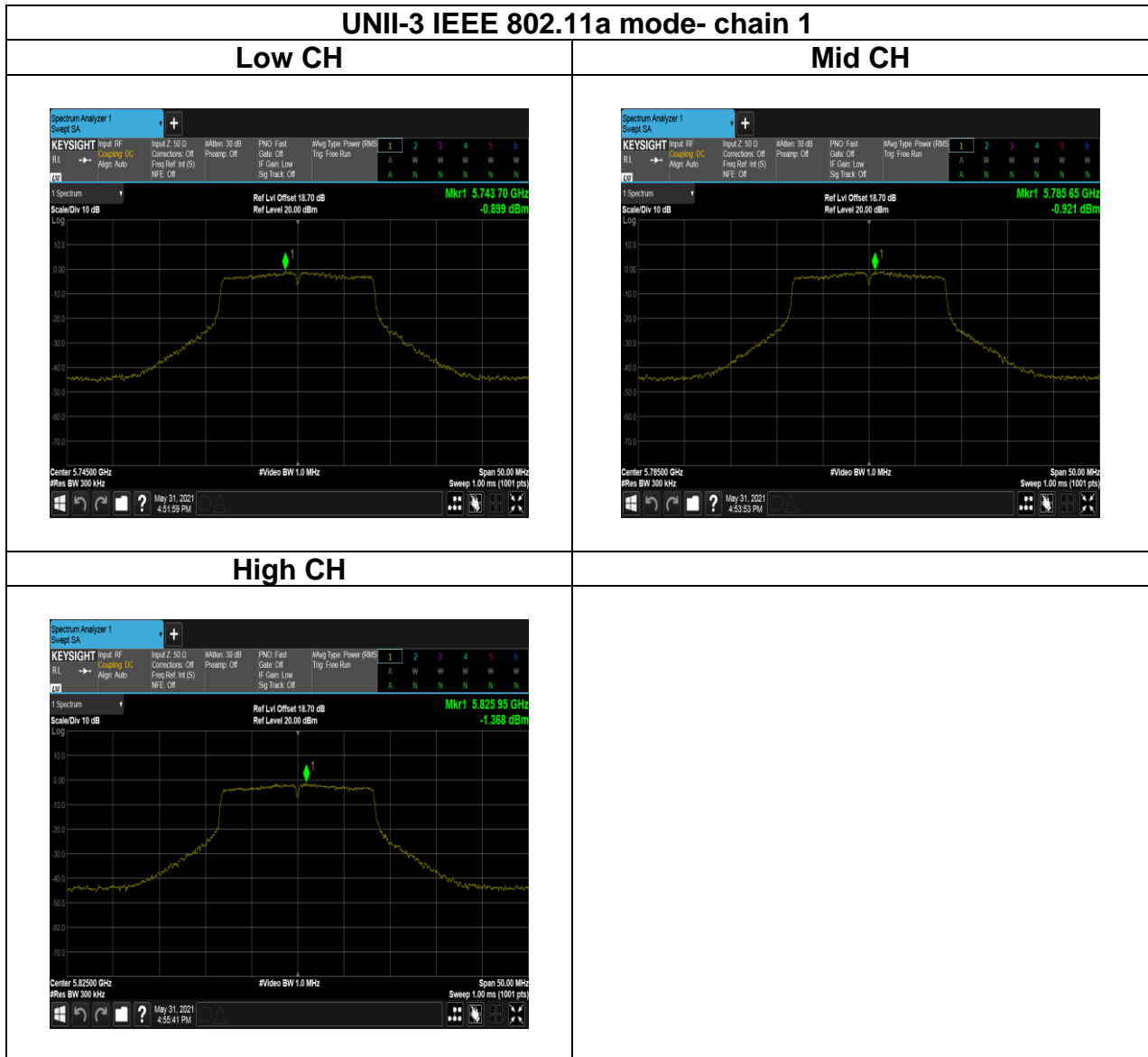


High CH



Report No.: T200522D10-RP4

Test Data



Report No.: T200522D10-RP4

UNII-3 IEEE 802.11n HT20 mode- chain 1

Low CH



Mid CH



High CH



Report No.: T200522D10-RP4

UNII-3 IEEE 802.11n HT40 mode- chain 1

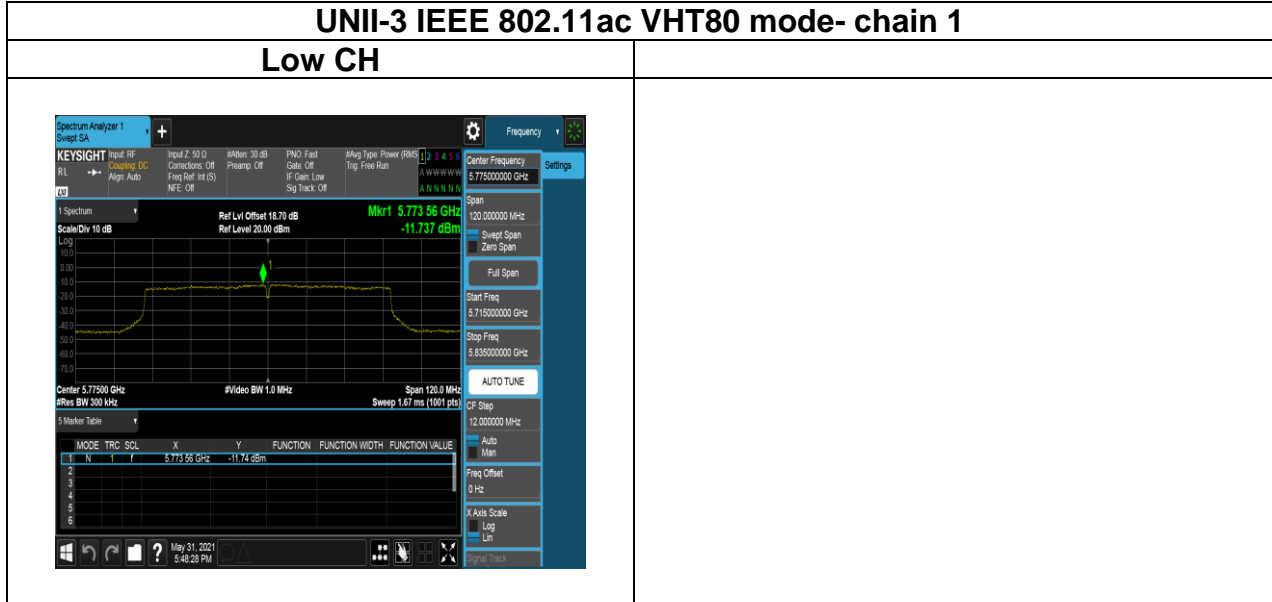
Low CH



High CH



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4.5 RADIATION BANDEGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.407, §15.209 and §15.205,
According to RSS-247 section 6.2.1.2 and section 6.2.4.2

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

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RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) ($\mu\text{A/m}$)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector..

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-2a and 2c :

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices' unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled "for indoor use only." Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.
 For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

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4.5.2 Test Procedure

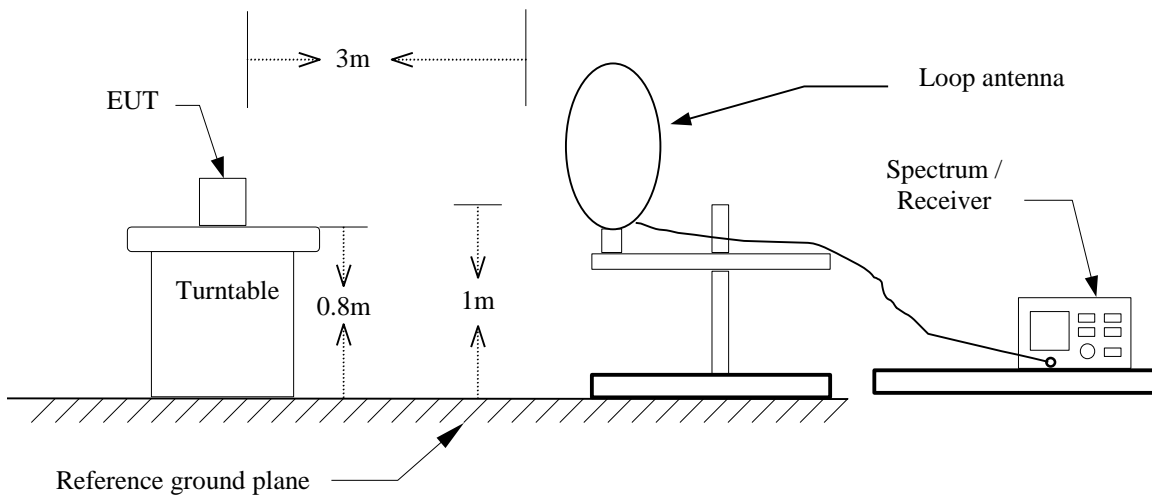
Test method Refer as KDB 789033 D02.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)
5. The SA setting following :
 - (1) Below 1G : RBW = 100kHz, VBW \geq 3*RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G :
 - (2.1) For Peak measurement : RBW = 1MHz, VBW \geq 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW
 - If Duty Cycle \geq 98%, VBW=10Hz.
 - If Duty Cycle < 98%, VBW=1/T.

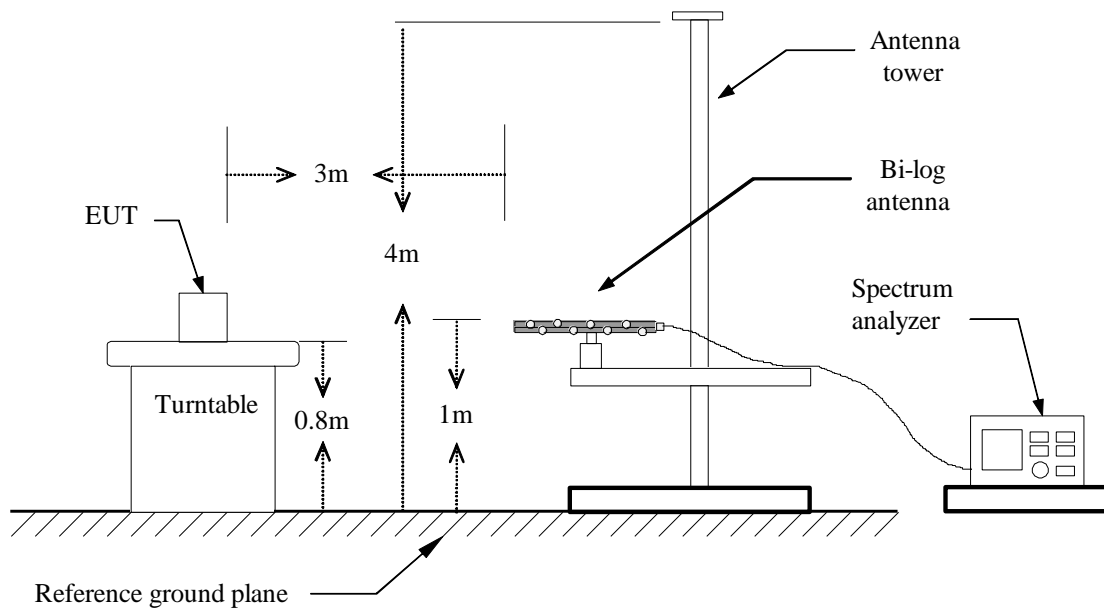
Report No.: T200522D10-RP4

4.5.3 Test Setup

9kHz ~ 30MHz

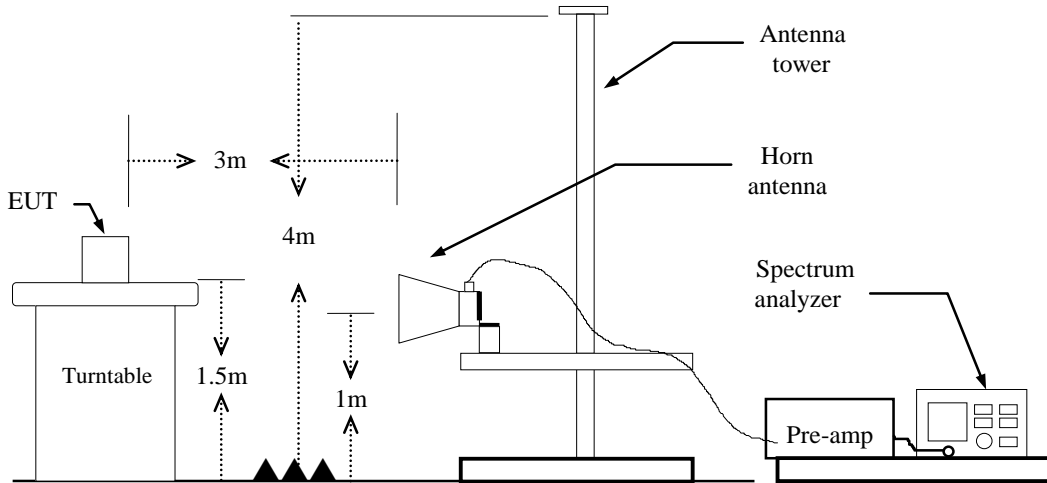


30MHz ~ 1GHz



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Above 1 GHz



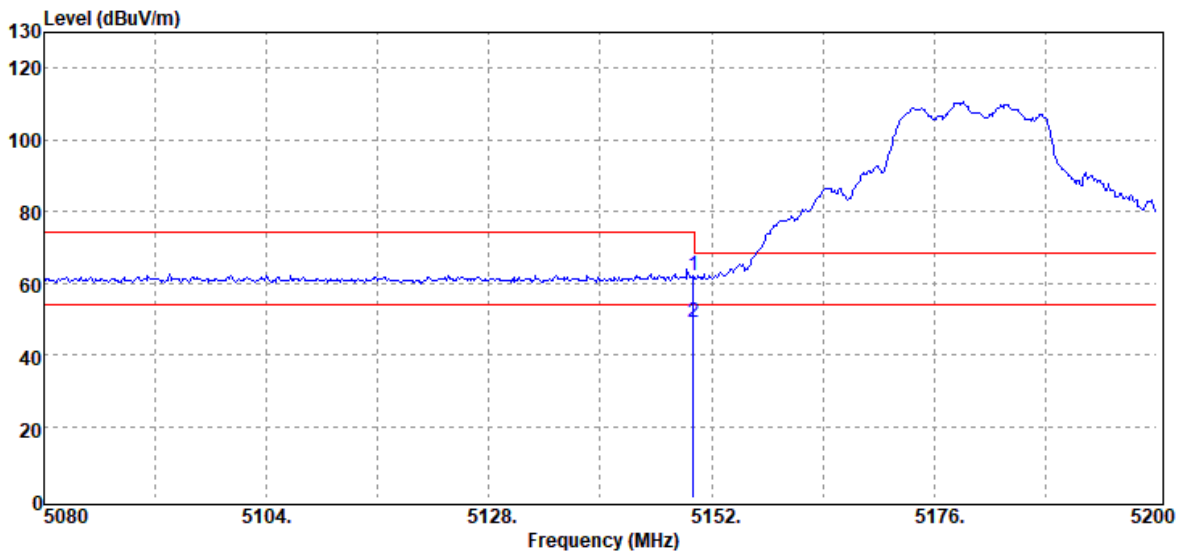
Report No.: T200522D10-RP4

4.5.4 Test Result

Band Edge Test Data

Test Data for UNII-1

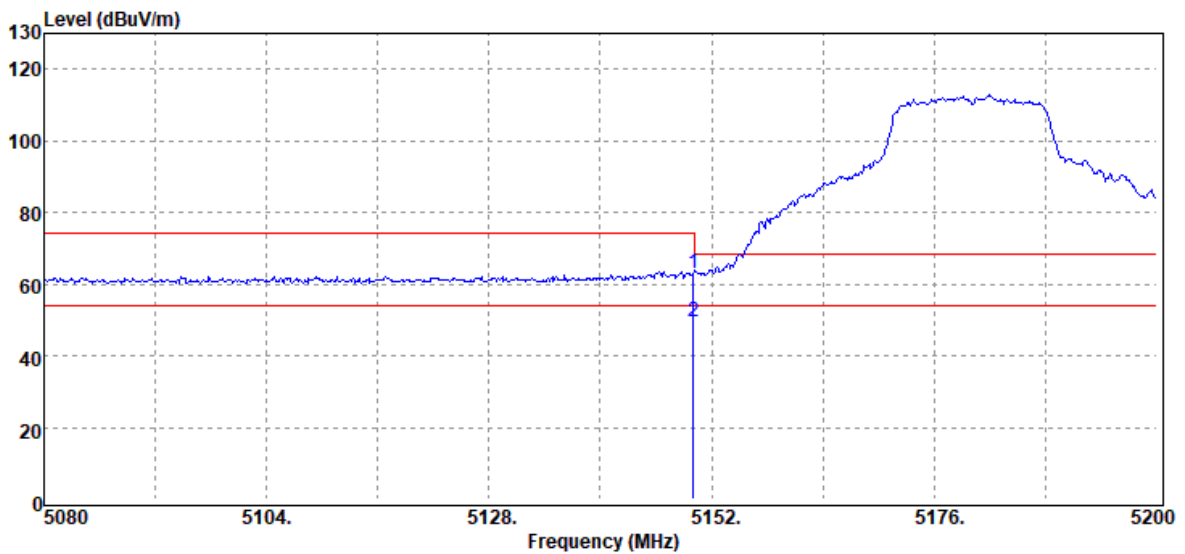
Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 10, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	71.68	-9.58	62.10	74.00	-11.90
5150.00	Average	58.53	-9.58	48.95	54.00	-5.05

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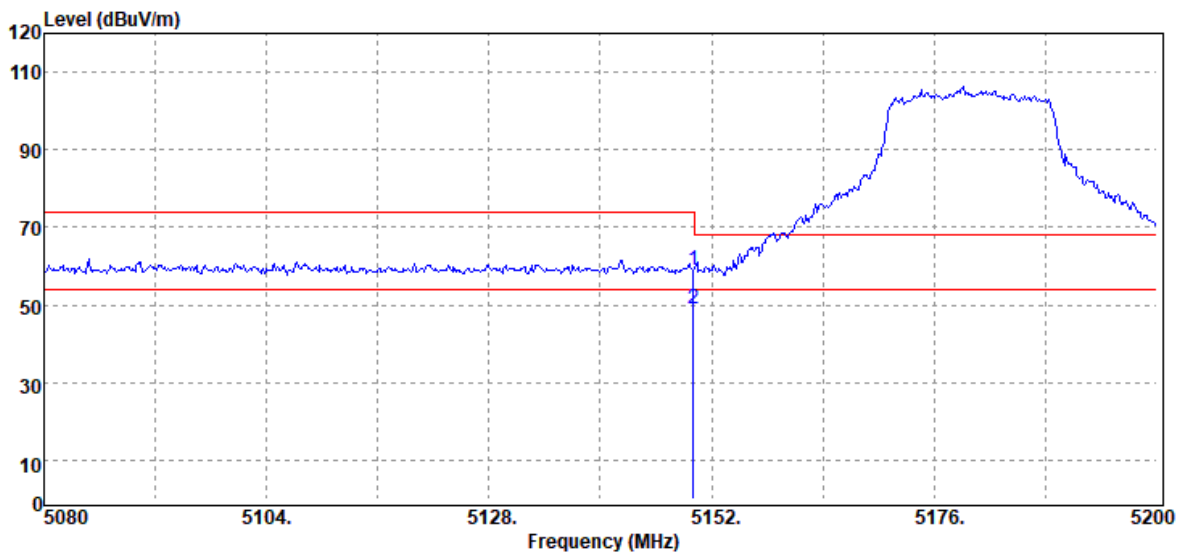
Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 10, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	72.35	-9.58	62.77	74.00	-11.23
5150.00	Average	59.03	-9.58	49.45	54.00	-4.55

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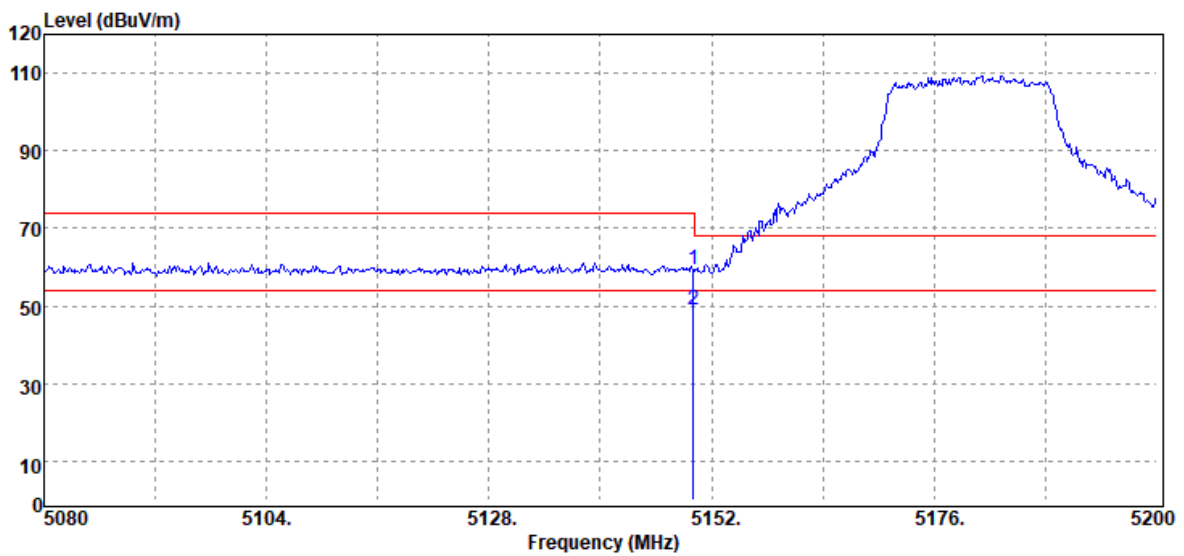
Test Mode	IEEE 802.11n 20 MHz / 5180MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	68.71	-9.58	59.13	74.00	-14.87
5150.00	Average	58.55	-9.58	48.97	54.00	-5.03

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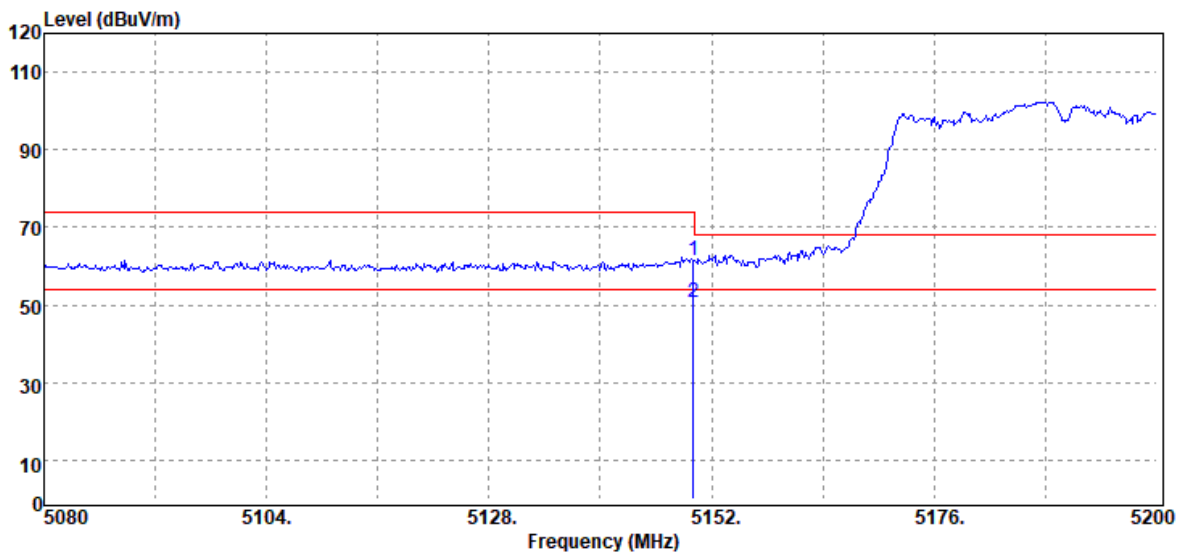
Test Mode	IEEE 802.11n 20 MHz / 5180MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	68.88	-9.58	59.30	74.00	-14.70
5150.00	Average	58.72	-9.58	49.14	54.00	-4.86

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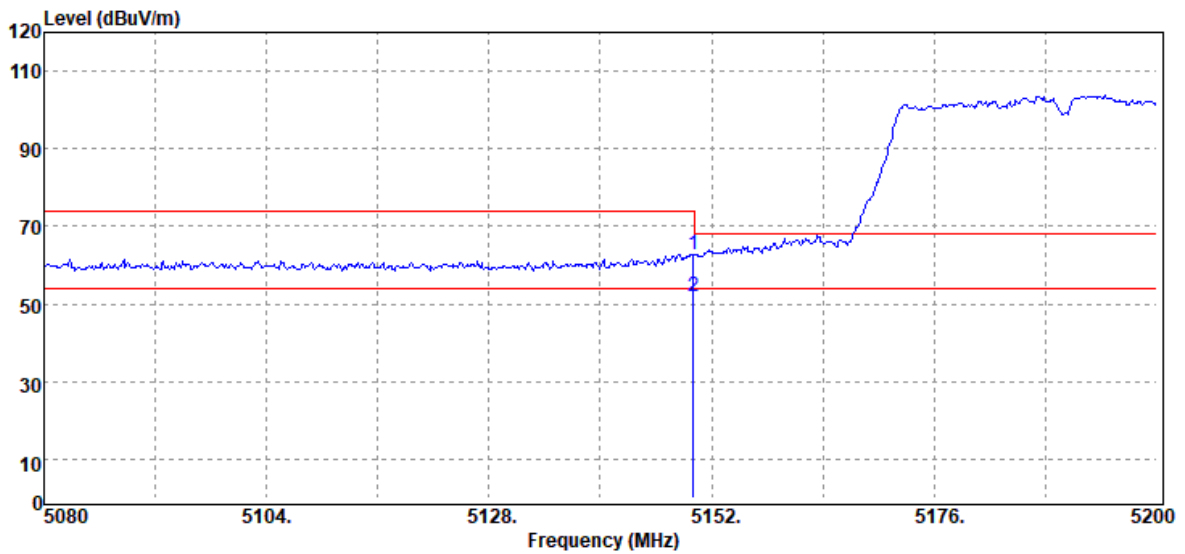
Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	70.91	-9.58	61.33	74.00	-12.67
5150.00	Average	60.08	-9.58	50.50	54.00	-3.50

Report No.: T200522D10-RP4

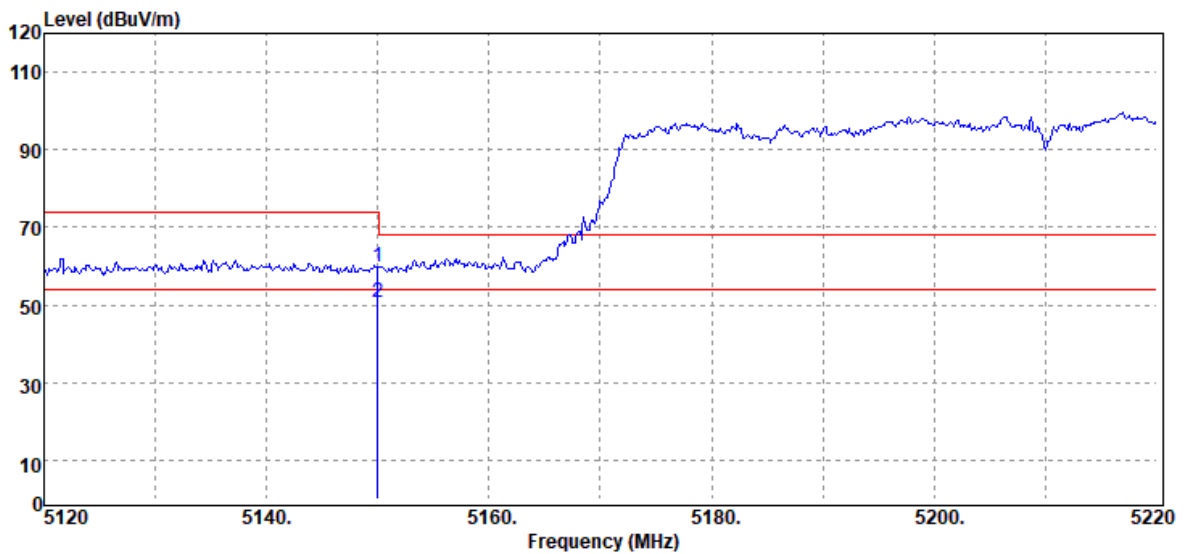
Test Mode	IEEE 802.11n 40 MHz / 5190MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	72.41	-9.58	62.83	74.00	-11.17
5150.00	Average	61.60	-9.58	52.02	54.00	-1.98

Report No.: T200522D10-RP4

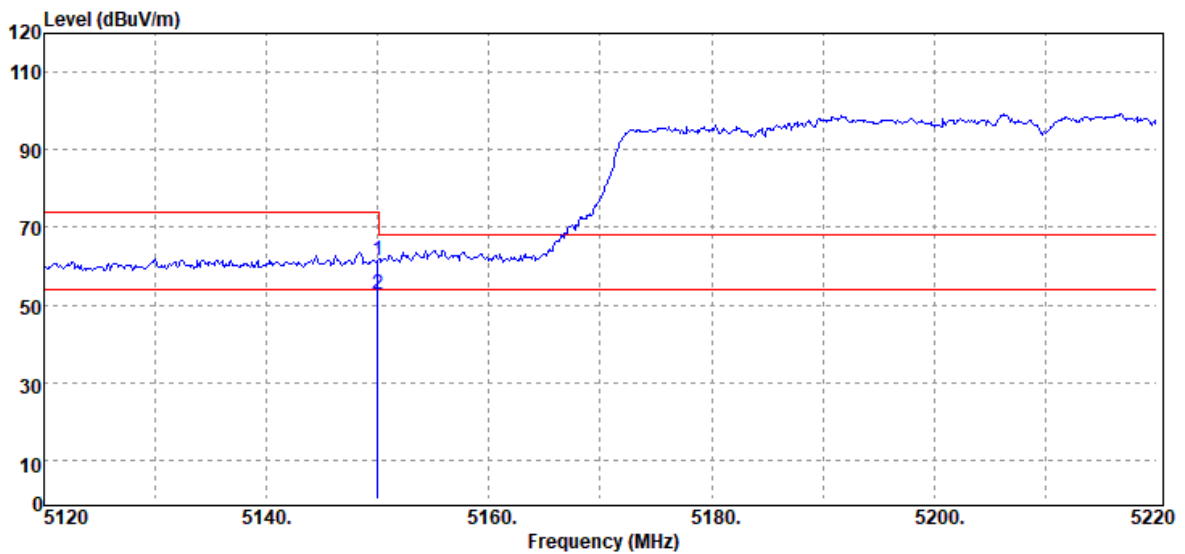
Test Mode	I EEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	69.32	-9.58	59.74	74.00	-14.26
5150.00	Average	60.19	-9.58	50.61	54.00	-3.39

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Test Mode	I EEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		

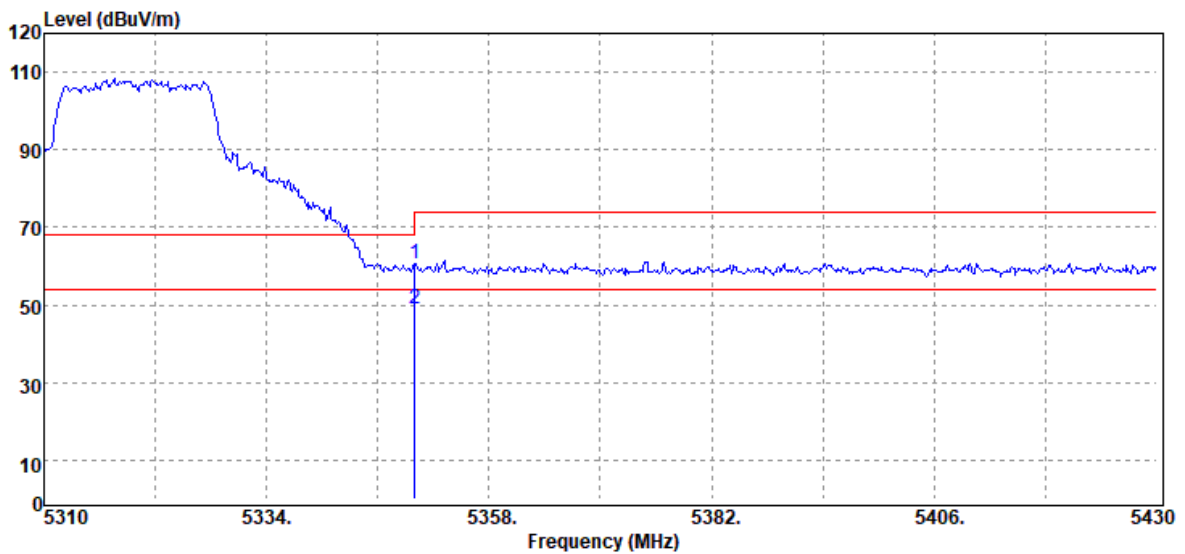


Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	71.17	-9.58	61.59	74.00	-12.41
5150.00	Average	62.44	-9.58	52.86	54.00	-1.14

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Test Data for UNII-2a

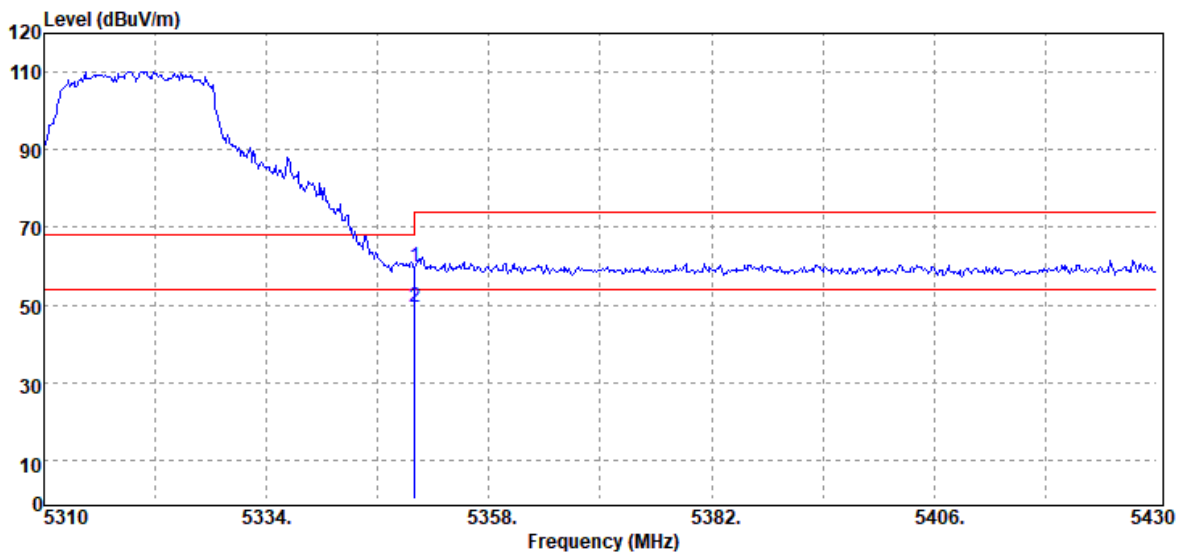
Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	70.12	-9.60	60.52	74.00	-13.48
5350.00	Average	58.63	-9.60	49.03	54.00	-4.97

Report No.: T200522D10-RP4

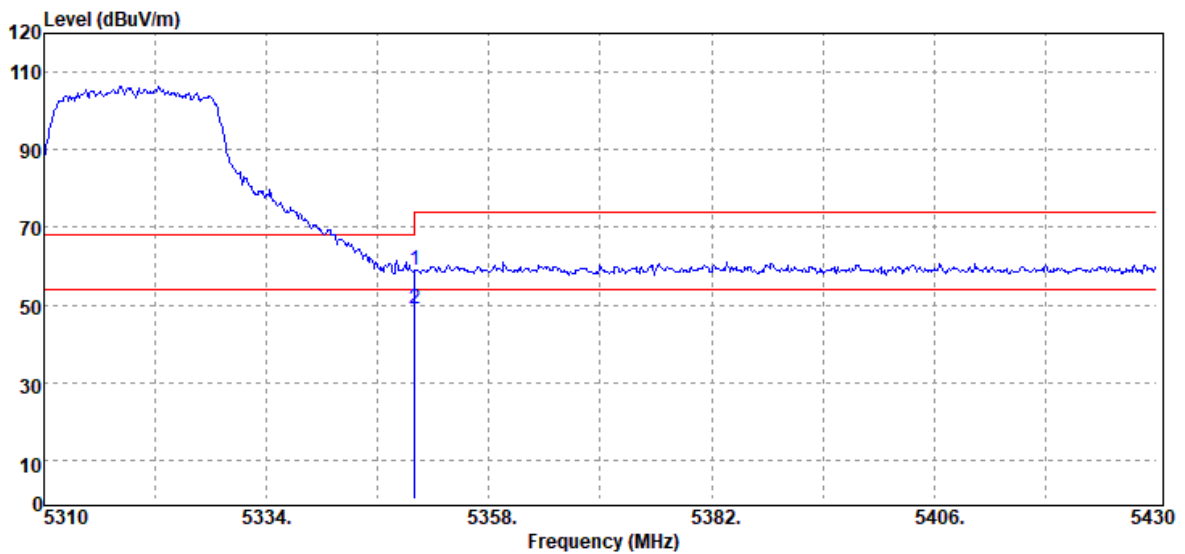
Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	69.57	-9.60	59.97	74.00	-14.03
5350.00	Average	59.04	-9.60	49.44	54.00	-4.56

Report No.: T200522D10-RP4

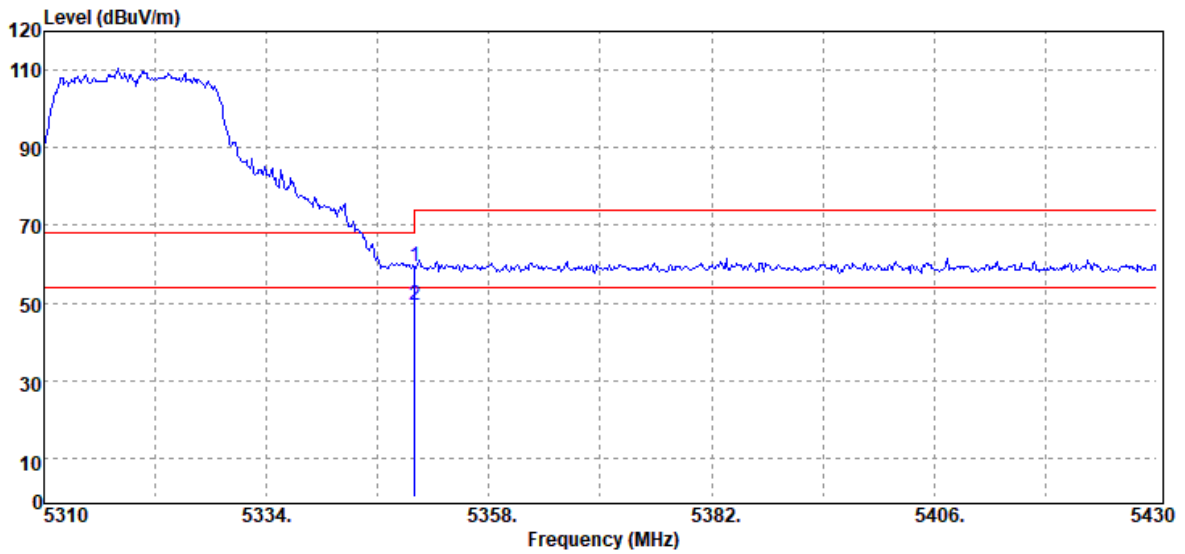
Test Mode	IEEE 802.11n 20 MHz / 5320MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	68.49	-9.60	58.89	74.00	-15.11
5350.00	Average	58.61	-9.60	49.01	54.00	-4.99

Report No.: T200522D10-RP4

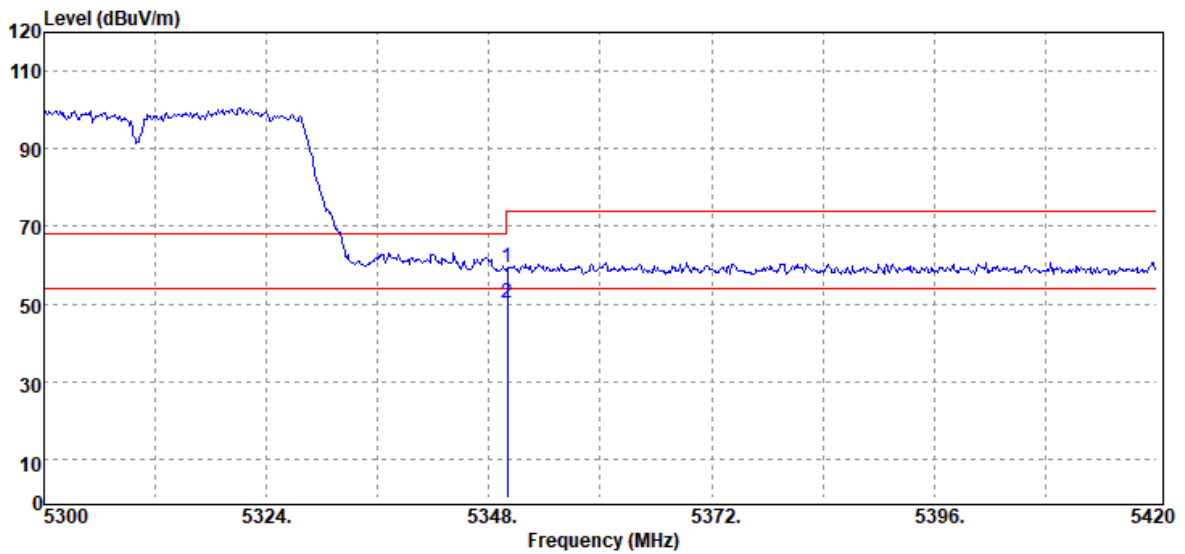
Test Mode	IEEE 802.11n 20 MHz / 5320MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	68.82	-9.60	59.22	74.00	-14.78
5350.00	Average	59.01	-9.60	49.41	54.00	-4.59

Report No.: T200522D10-RP4

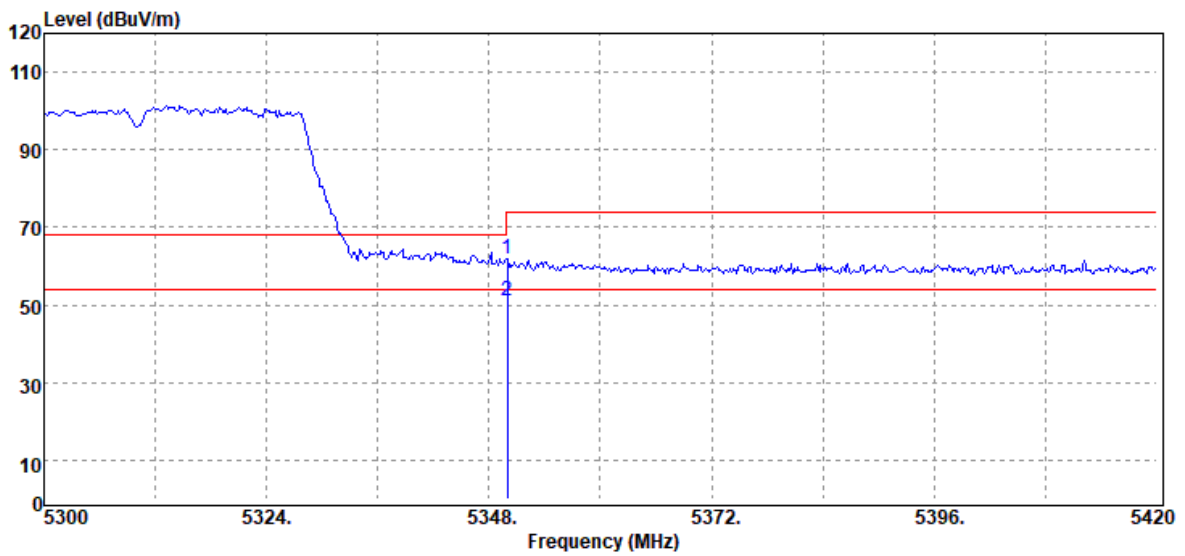
Test Mode	IEEE 802.11n 40 MHz / 5310MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	68.96	-9.60	59.36	74.00	-14.64
5350.00	Average	59.88	-9.60	50.28	54.00	-3.72

Report No.: T200522D10-RP4

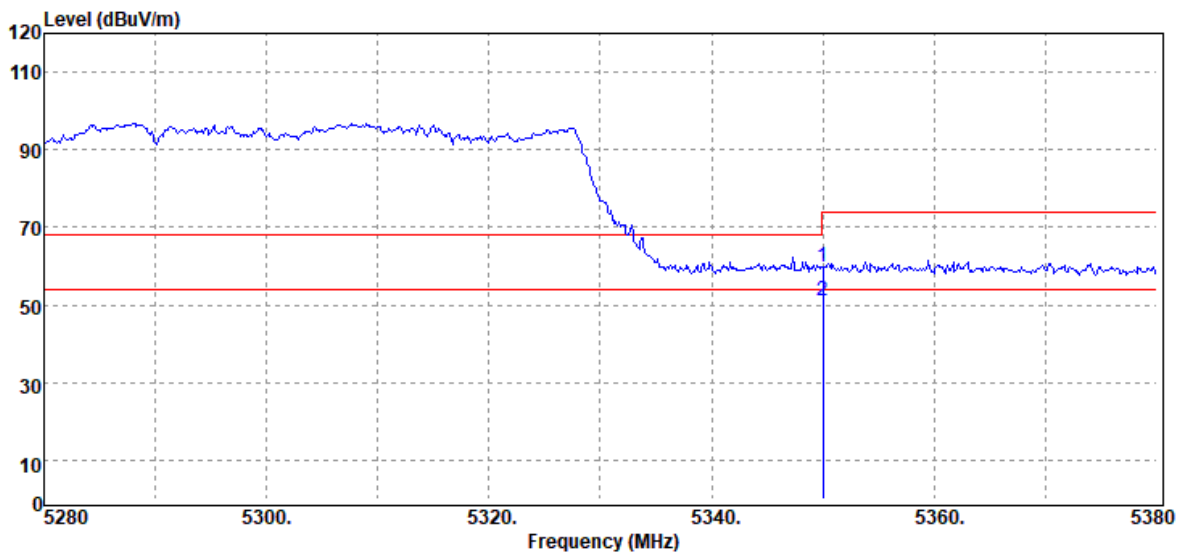
Test Mode	IEEE 802.11n 40 MHz / 5310MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	71.60	-9.60	62.00	74.00	-12.00
5350.00	Average	60.70	-9.60	51.10	54.00	-2.90

Report No.: T200522D10-RP4

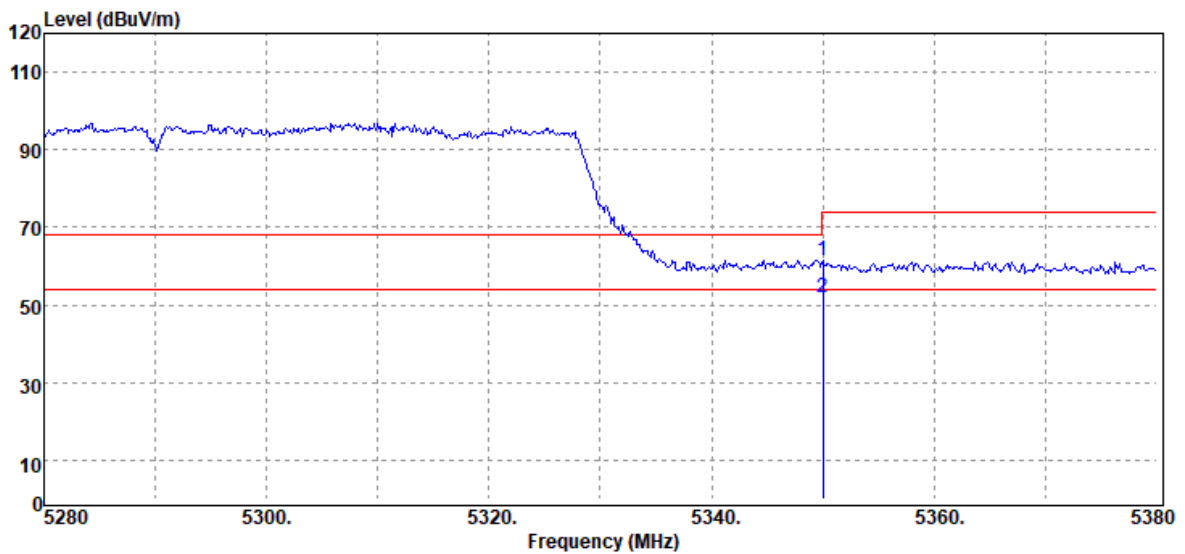
Test Mode	IEEE 802.11ac VHT80 / 5290MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	69.32	-9.60	59.72	74.00	-14.28
5350.00	Average	60.70	-9.60	51.10	54.00	-2.90

Report No.: T200522D10-RP4

Test Mode	IEEE 802.11ac VHT80 / 5290MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		

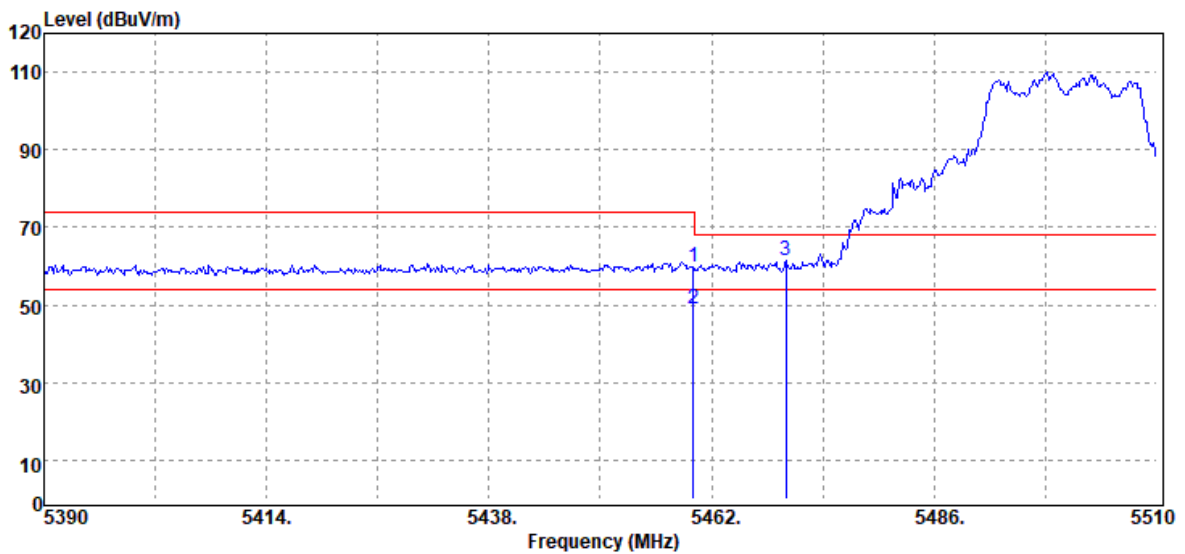


Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	71.11	-9.60	61.51	74.00	-12.49
5350.00	Average	61.71	-9.60	52.11	54.00	-1.89

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Test Data for UNII-2c

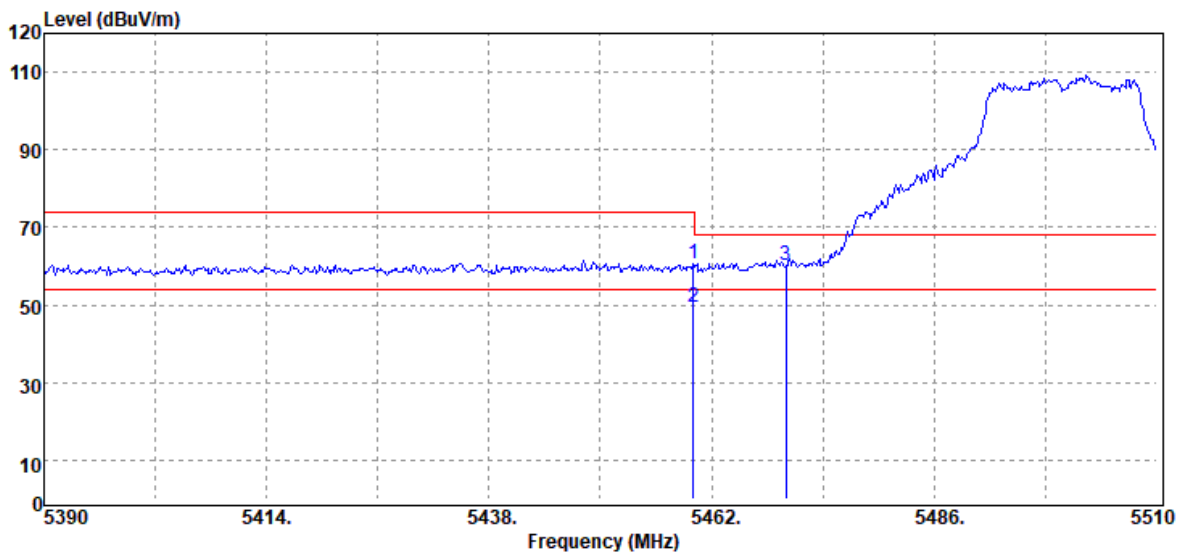
Test Mode	IEEE 802.11a / 5500MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	69.47	-9.47	60.00	74.00	-14.00
5460.00	Average	58.34	-9.47	48.87	54.00	-5.13
5470.00	Peak	70.72	-9.43	61.29	68.20	-6.91

Report No.: T200522D10-RP4

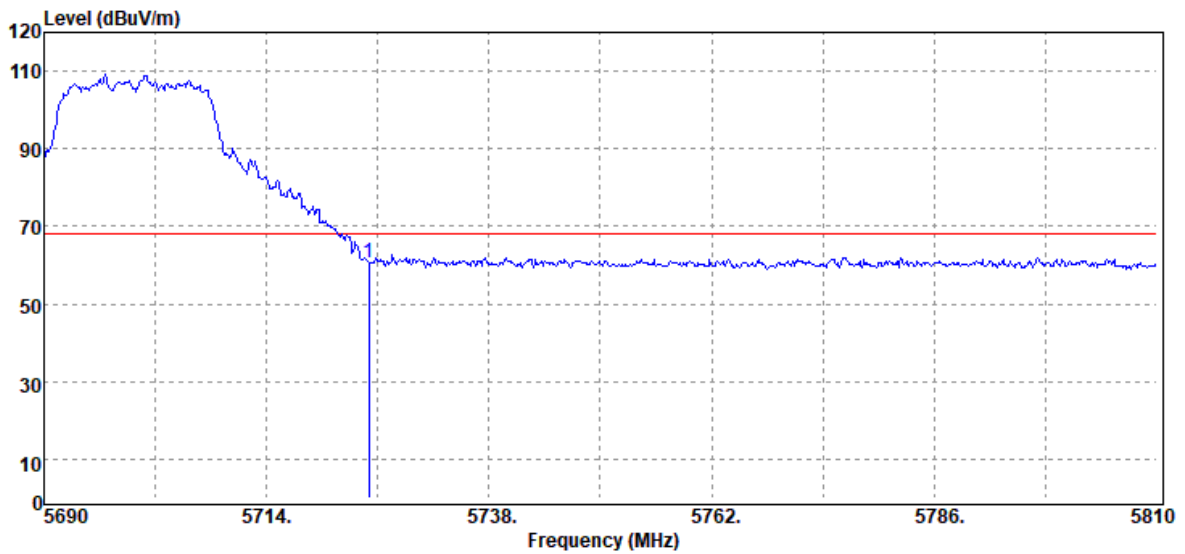
Test Mode	IEEE 802.11a / 5500MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	70.24	-9.47	60.77	74.00	-13.23
5460.00	Average	58.71	-9.47	49.24	54.00	-4.76
5470.00	Peak	69.54	-9.43	60.11	68.20	-8.09

Report No.: T200522D10-RP4

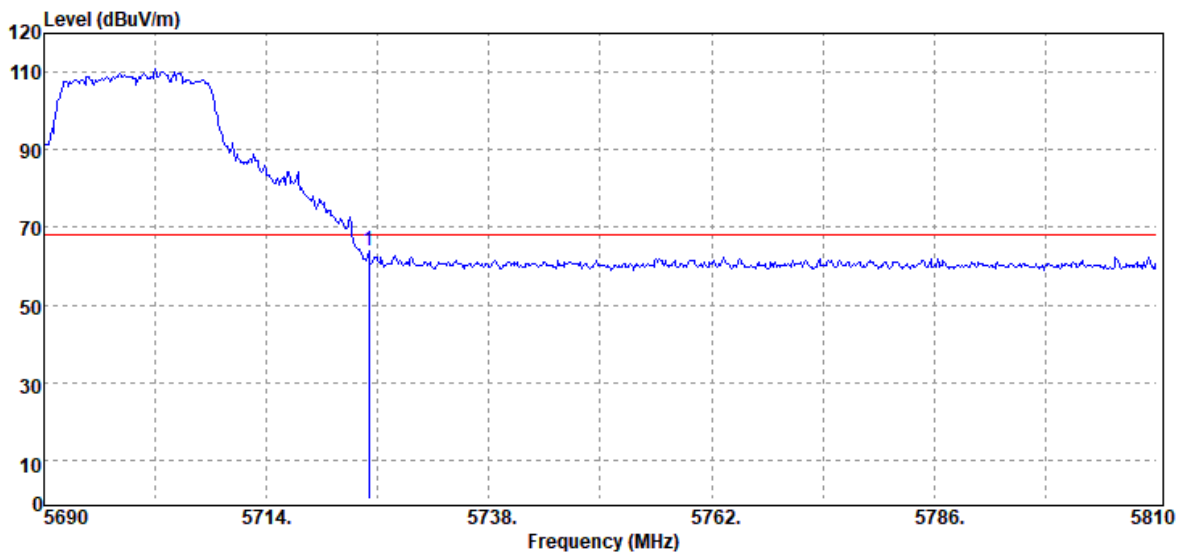
Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	69.15	-8.57	60.58	68.20	-7.62

Report No.: T200522D10-RP4

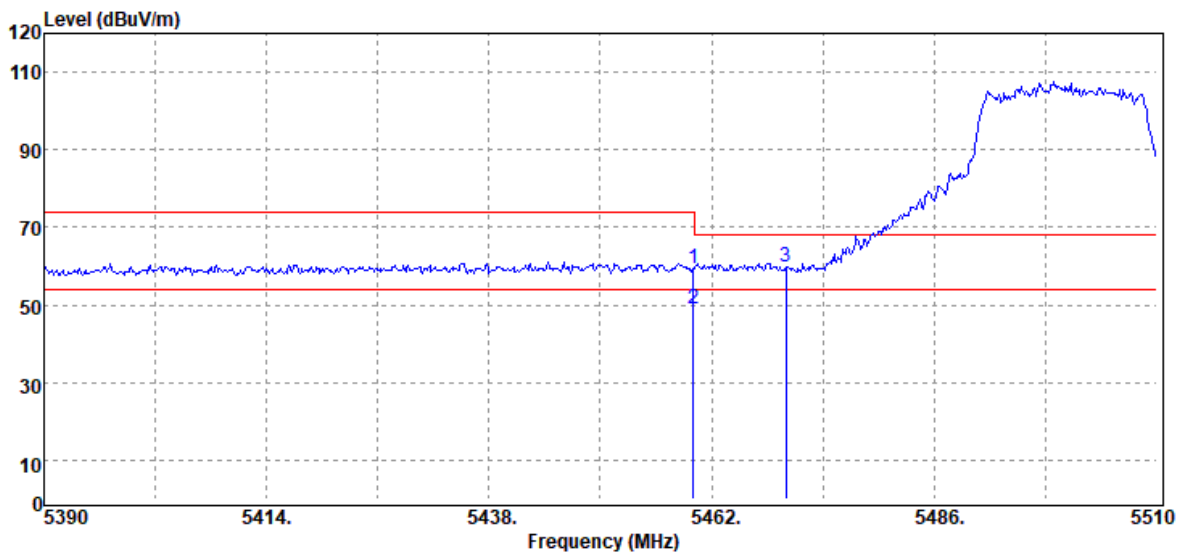
Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	72.33	-8.57	63.76	68.20	-4.44

Report No.: T200522D10-RP4

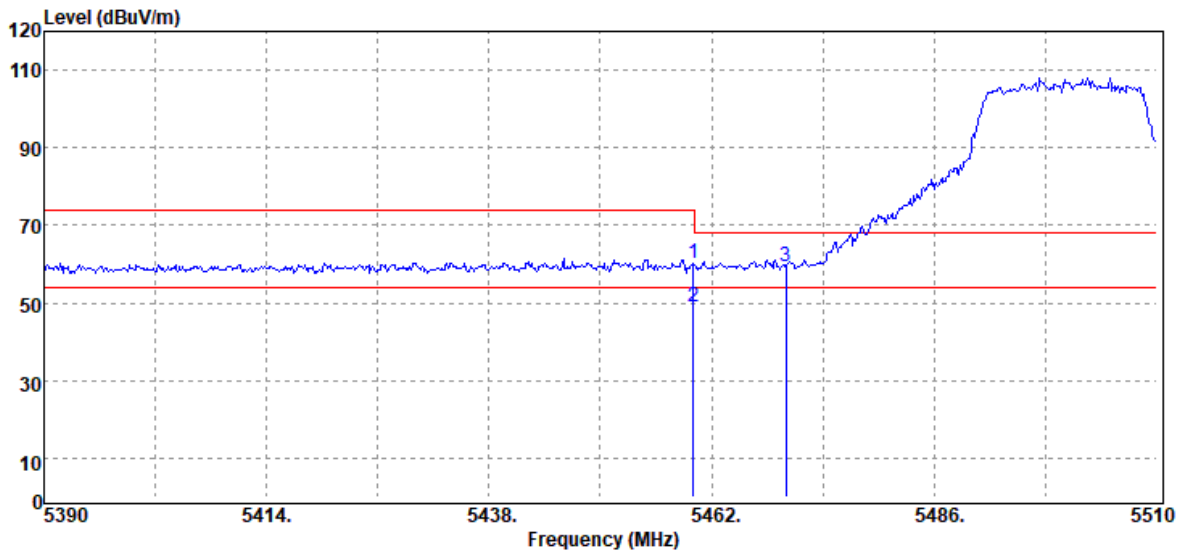
Test Mode	IEEE 802.11n 20 MHz / 5500MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	68.69	-9.47	59.22	74.00	-14.78
5460.00	Average	58.58	-9.47	49.11	54.00	-4.89
5470.00	Peak	69.04	-9.43	59.61	68.20	-8.59

Report No.: T200522D10-RP4

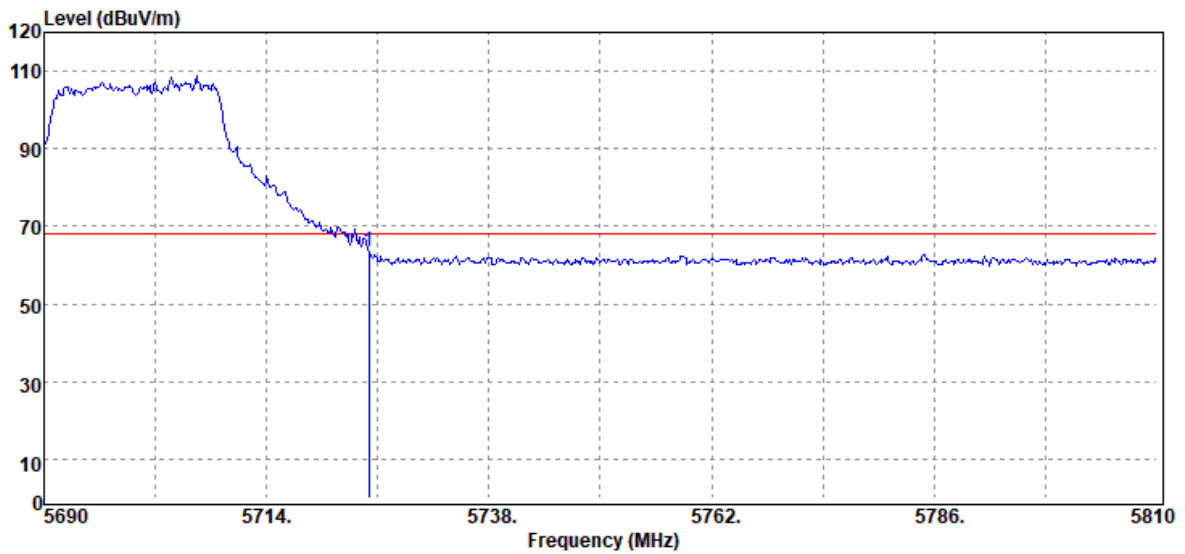
Test Mode	IEEE 802.11n 20 MHz / 5500MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Peak	69.51	-9.47	60.04	74.00	-13.96
5460.00	Average	58.66	-9.47	49.19	54.00	-4.81
5470.00	Peak	68.67	-9.43	59.24	68.20	-8.96

Report No.: T200522D10-RP4

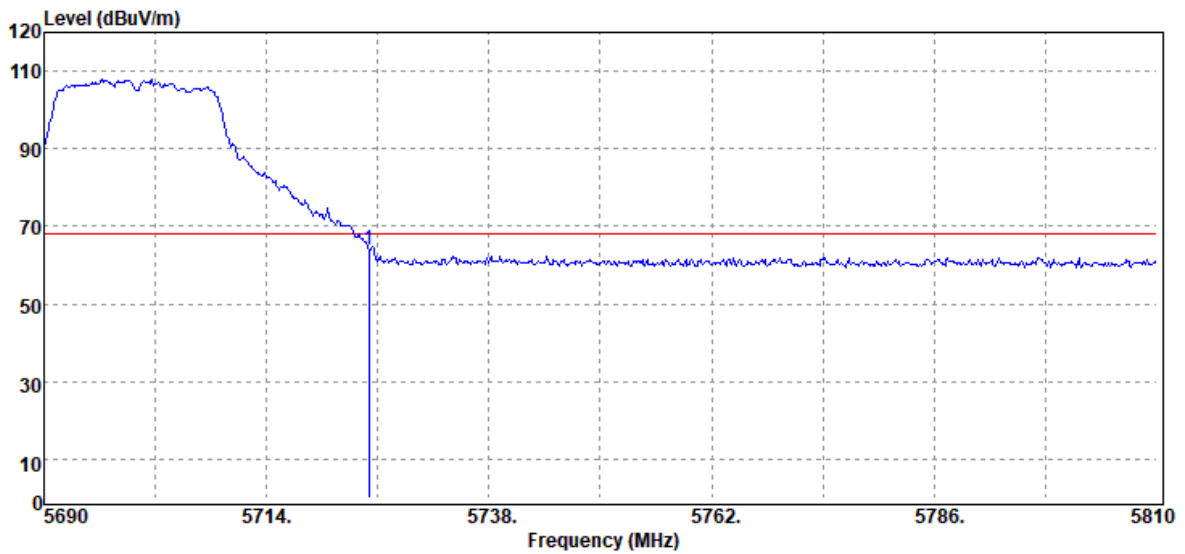
Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temperature	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	72.17	-8.57	63.60	68.20	-4.60

Report No.: T200522D10-RP4

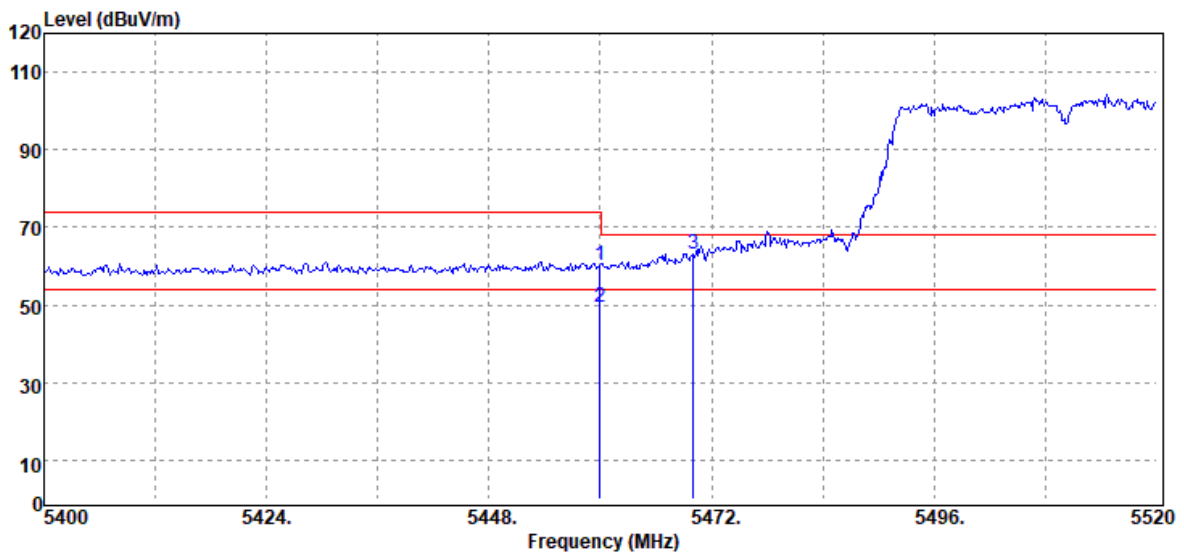
Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temperature	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	72.40	-8.57	63.83	68.20	-4.37

Report No.: T200522D10-RP4

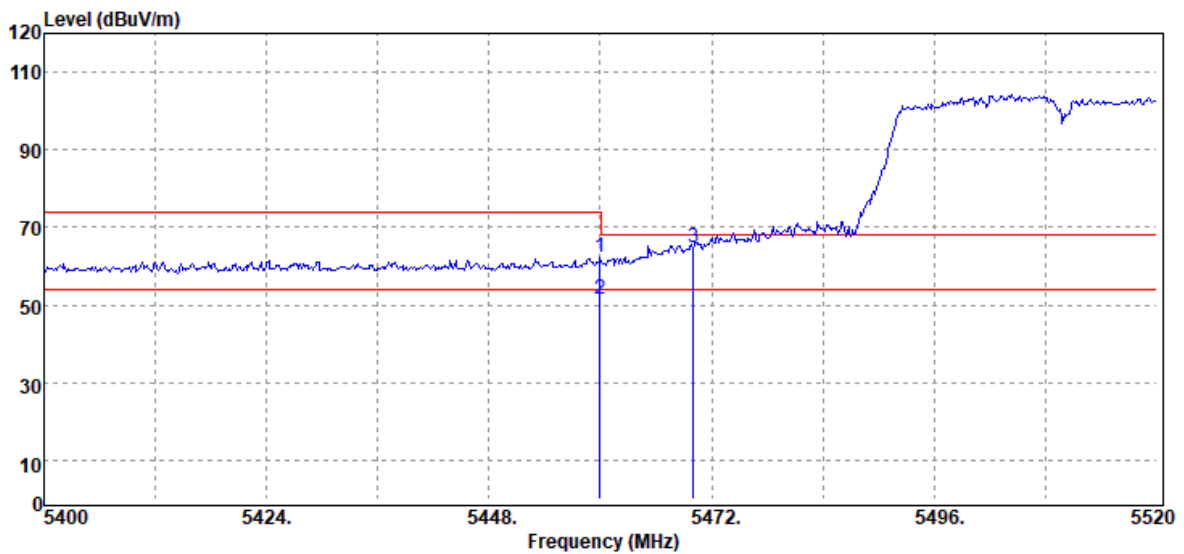
Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	69.53	-9.47	60.06	74.00	-13.94
5460.00	Average	58.99	-9.47	49.52	54.00	-4.48
5470.00	Peak	72.72	-9.43	63.29	68.20	-4.91

Report No.: T200522D10-RP4

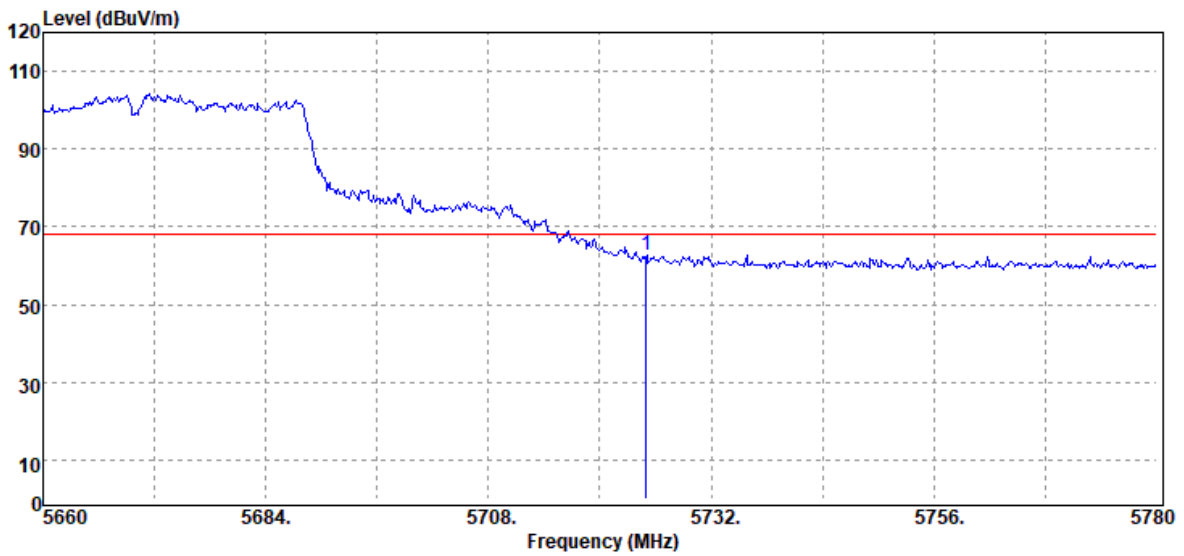
Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	71.62	-9.47	62.15	74.00	-11.85
5460.00	Average	60.81	-9.47	51.34	54.00	-2.66
5470.00	Peak	74.30	-9.43	64.87	68.20	-3.33

Report No.: T200522D10-RP4

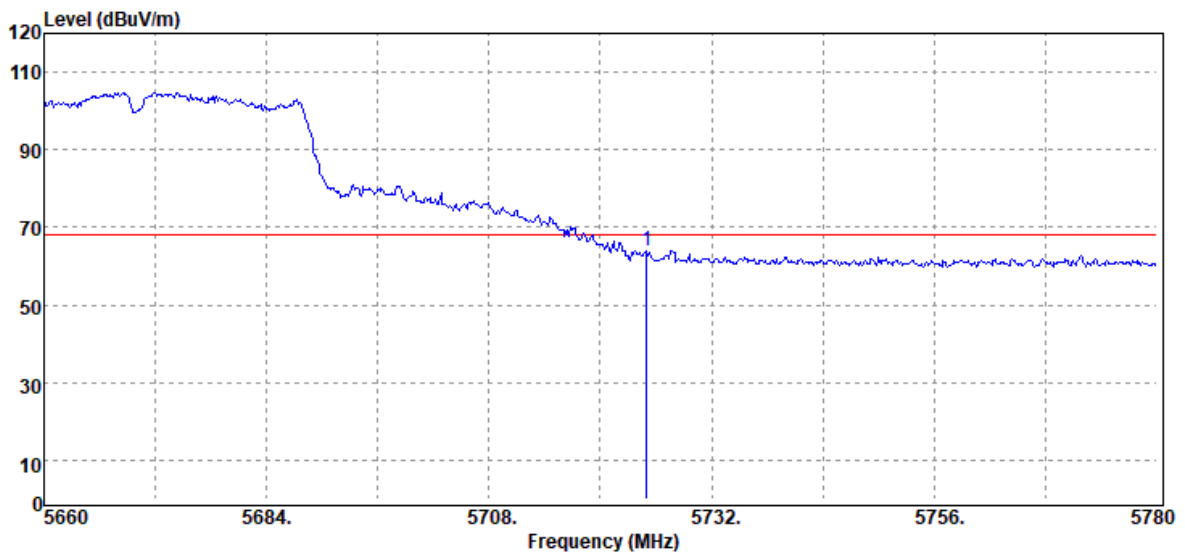
Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	20.8(°C)/ 71%RH
Test Item	Band Edge	Test Date	April 22, 2021
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	71.18	-8.50	62.68	68.20	-5.52

Report No.: T200522D10-RP4

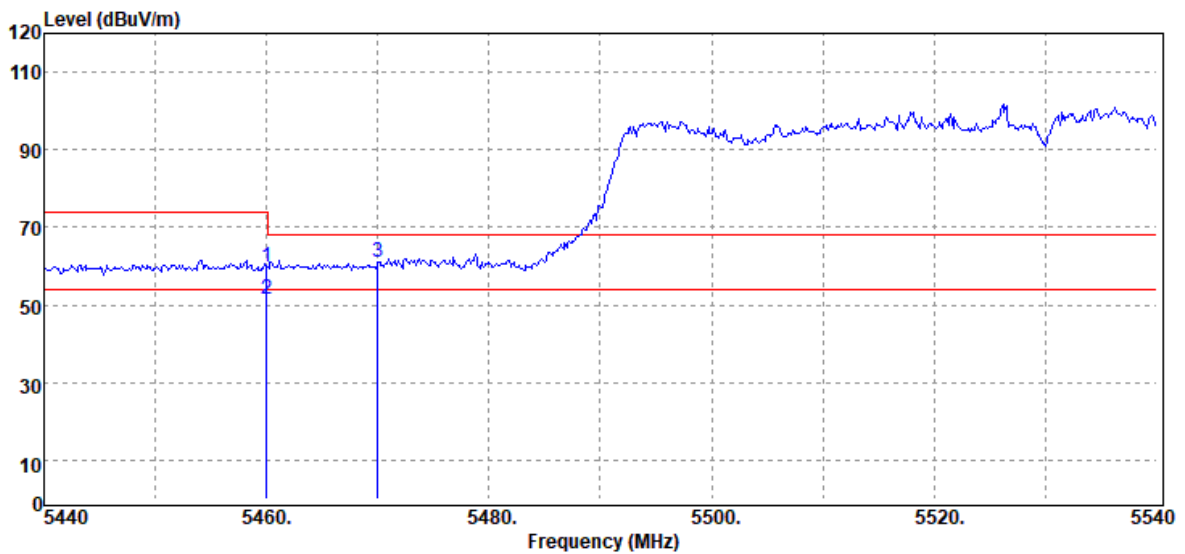
Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	20.8(°C)/ 71%RH
Test Item	Band Edge	Test Date	April 22, 2021
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	72.60	-8.50	64.10	68.20	-4.10

Report No.: T200522D10-RP4

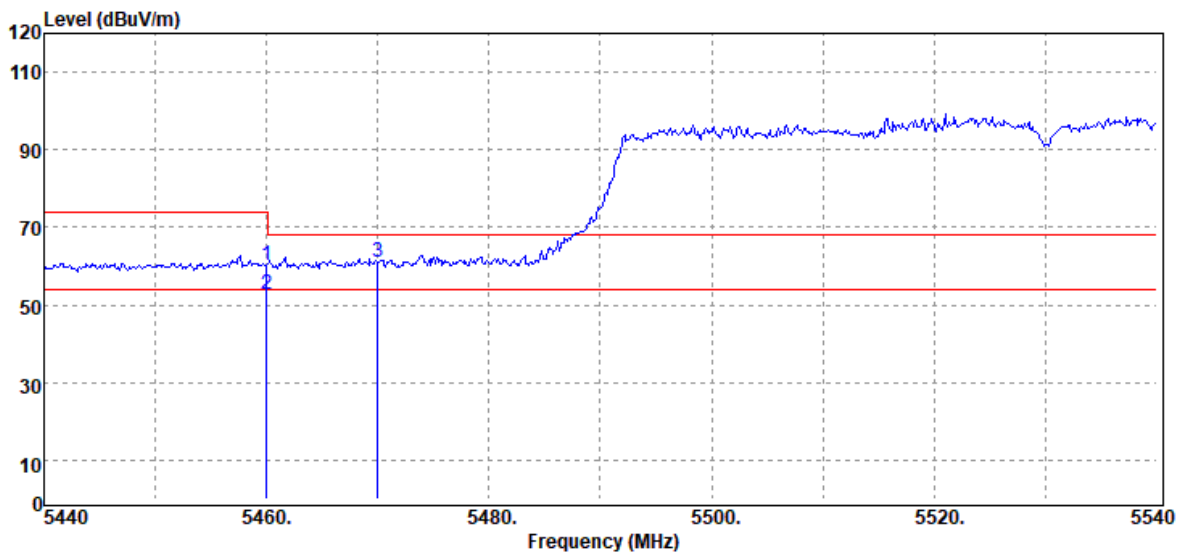
Test Mode	IEEE 802.11ac VHT80 / 5530 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	69.18	-9.47	59.71	74.00	-14.29
5460.00	Average	61.12	-9.47	51.65	54.00	-2.35
5470.00	Peak	70.40	-9.43	60.97	68.20	-7.23

Report No.: T200522D10-RP4

Test Mode	IEEE 802.11ac VHT80 / 5530 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		

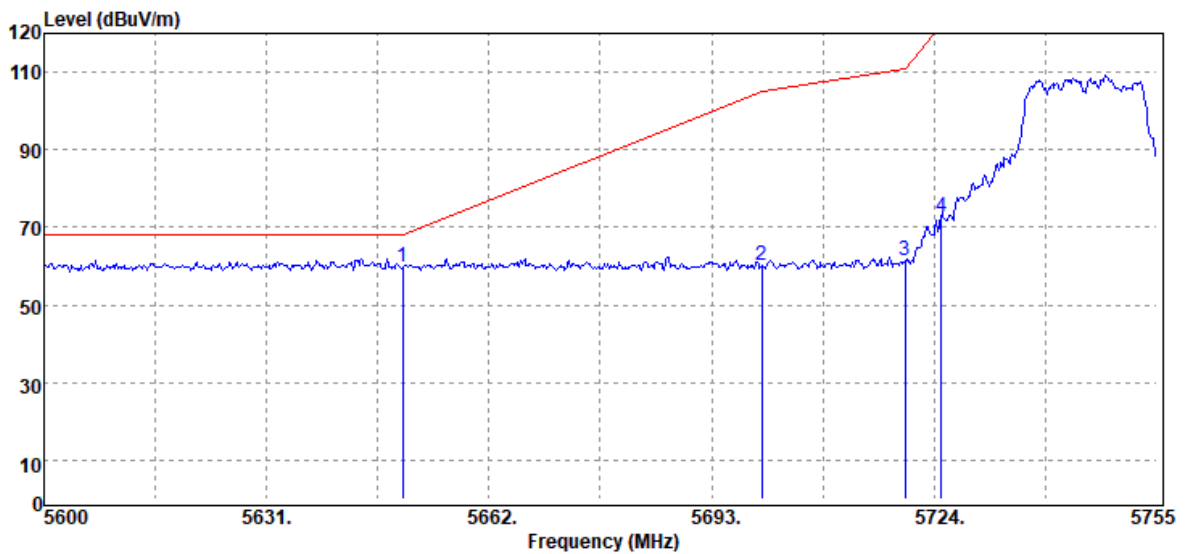


Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	69.75	-9.47	60.28	74.00	-13.72
5460.00	Average	62.28	-9.47	52.81	54.00	-1.19
5470.00	Peak	70.35	-9.43	60.92	68.20	-7.28

Report No.: T200522D10-RP4

Test Data for UNII-3

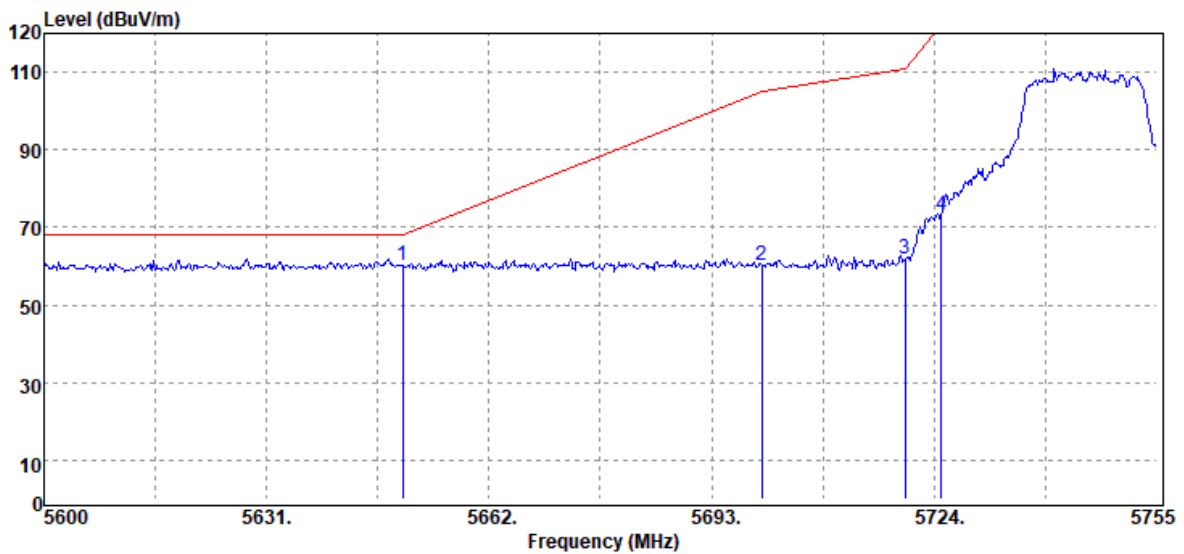
Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	68.74	-8.76	59.98	68.20	-8.22
5700.00	Peak	68.89	-8.64	60.25	105.20	-44.95
5720.00	Peak	70.04	-8.58	61.46	110.80	-49.34
5725.00	Peak	81.28	-8.57	72.71	122.20	-49.49

Report No.: T200522D10-RP4

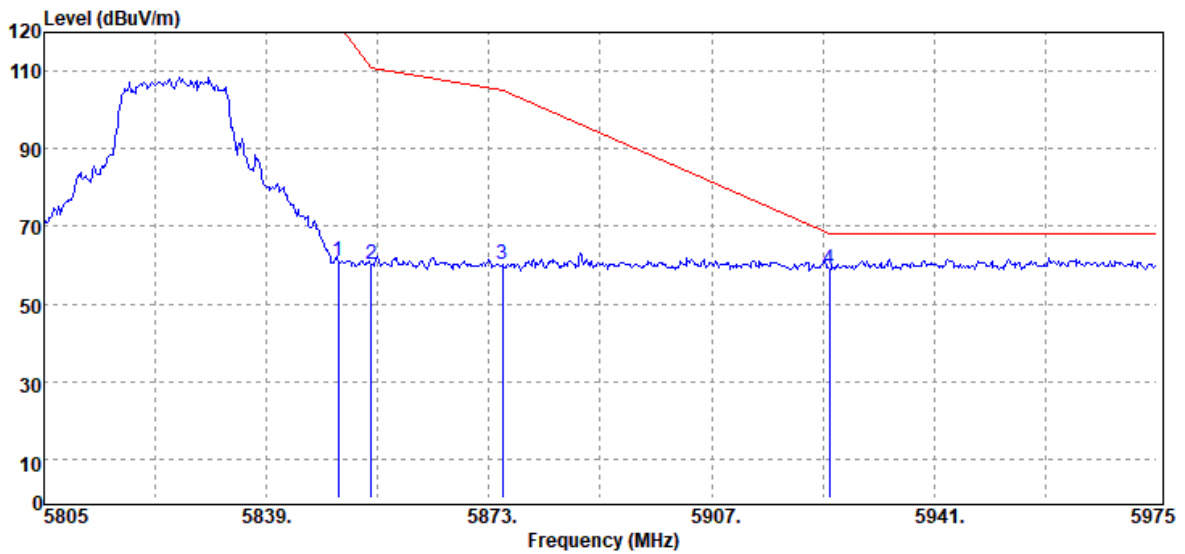
Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	68.80	-8.76	60.04	68.20	-8.16
5700.00	Peak	68.93	-8.64	60.29	105.20	-44.91
5720.00	Peak	70.60	-8.58	62.02	110.80	-48.78
5725.00	Peak	81.73	-8.57	73.16	122.20	-49.04

Report No.: T200522D10-RP4

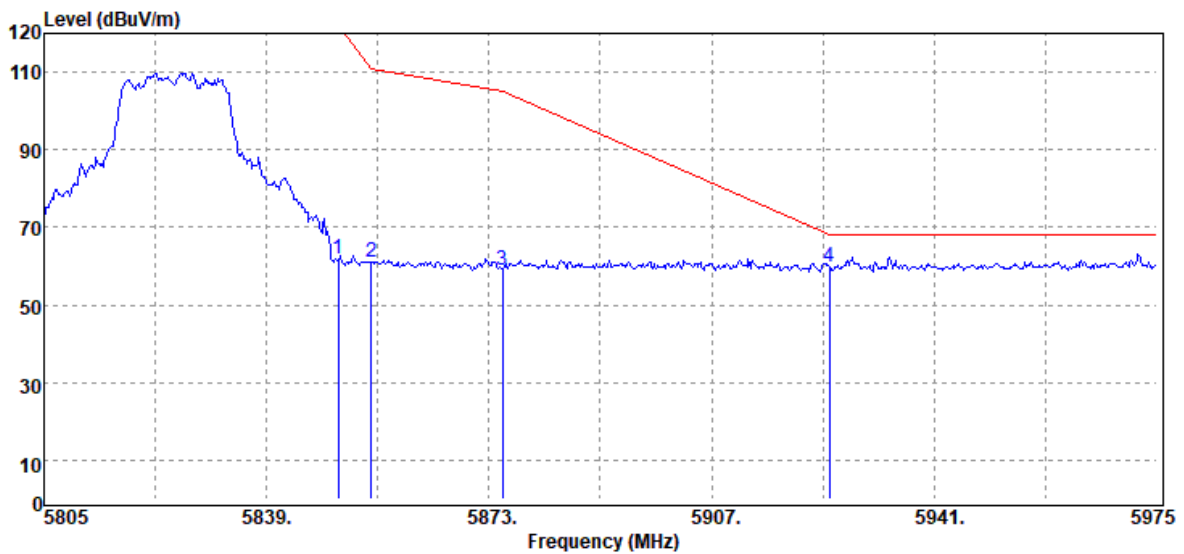
Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	69.44	-8.60	60.84	122.20	-61.36
5855.00	Peak	68.95	-8.60	60.35	110.80	-50.45
5875.00	Peak	68.93	-8.59	60.34	105.20	-44.86
5925.00	Peak	67.74	-8.65	59.09	68.20	-9.11

Report No.: T200522D10-RP4

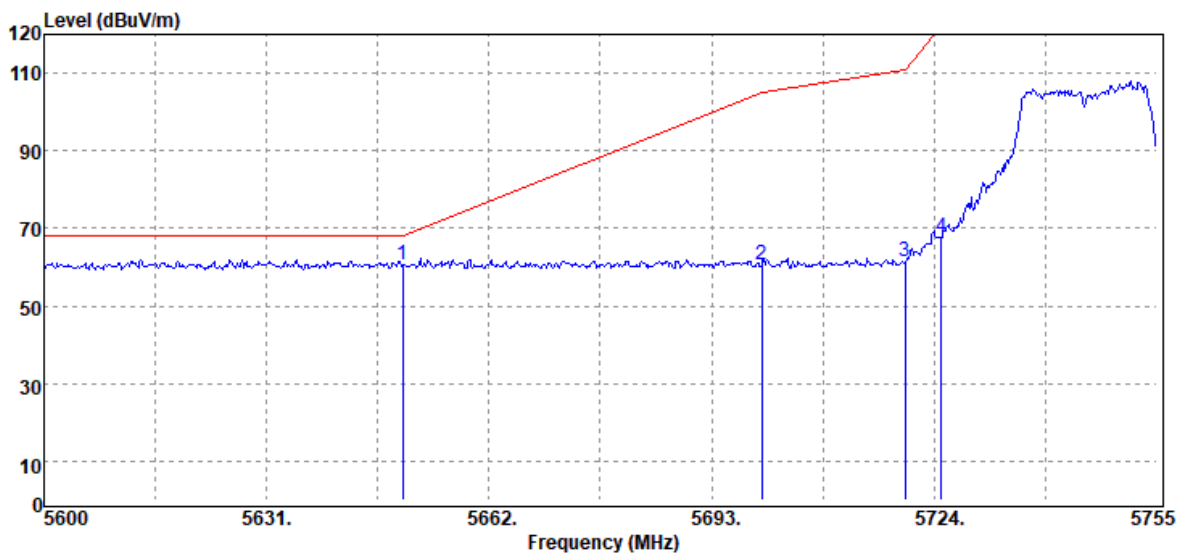
Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	70.29	-8.60	61.69	122.20	-60.51
5855.00	Peak	69.59	-8.60	60.99	110.80	-49.81
5875.00	Peak	67.74	-8.59	59.15	105.20	-46.05
5925.00	Peak	68.53	-8.65	59.88	68.20	-8.32

Report No.: T200522D10-RP4

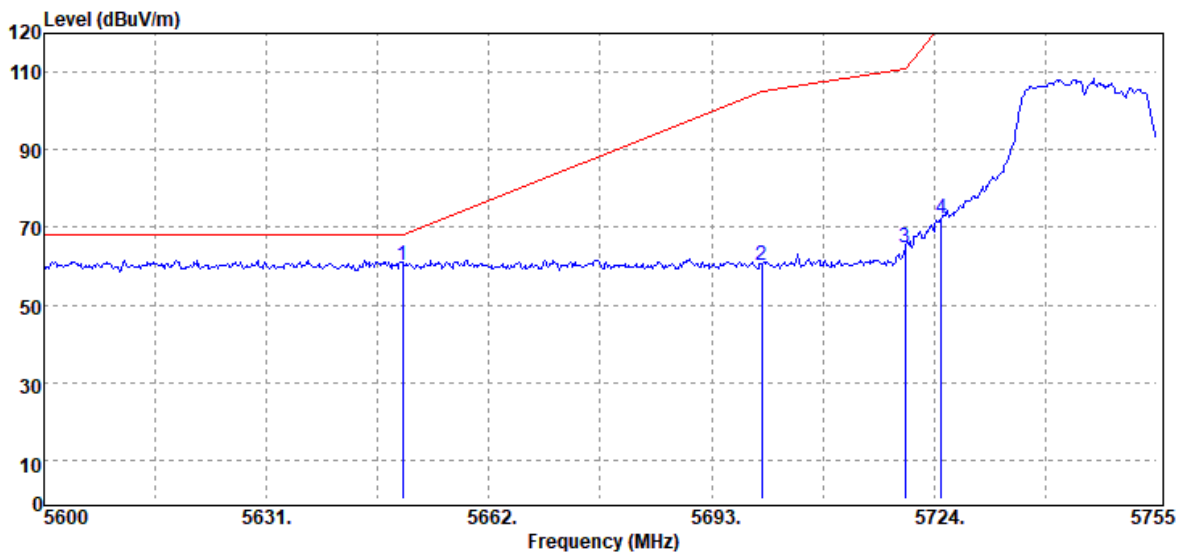
Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	69.22	-8.76	60.46	68.20	-7.74
5700.00	Peak	69.13	-8.64	60.49	105.20	-44.71
5720.00	Peak	70.09	-8.58	61.51	110.80	-49.29
5725.00	Peak	76.25	-8.57	67.68	122.20	-54.52

Report No.: T200522D10-RP4

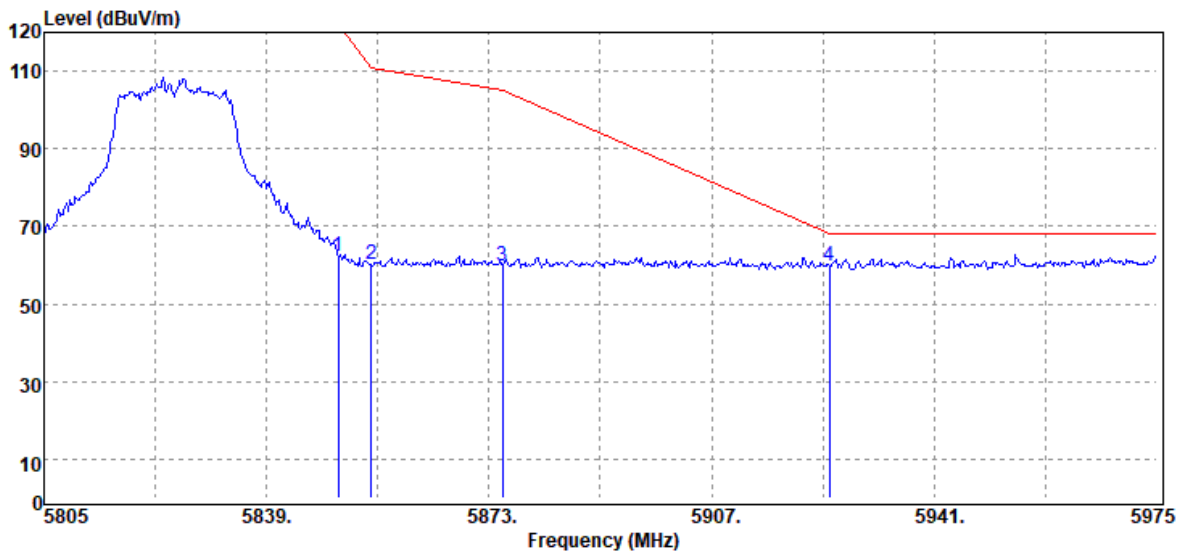
Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	68.89	-8.76	60.13	68.20	-8.07
5700.00	Peak	68.98	-8.64	60.34	105.20	-44.86
5720.00	Peak	73.27	-8.58	64.69	110.80	-46.11
5725.00	Peak	80.82	-8.57	72.25	122.20	-49.95

Report No.: T200522D10-RP4

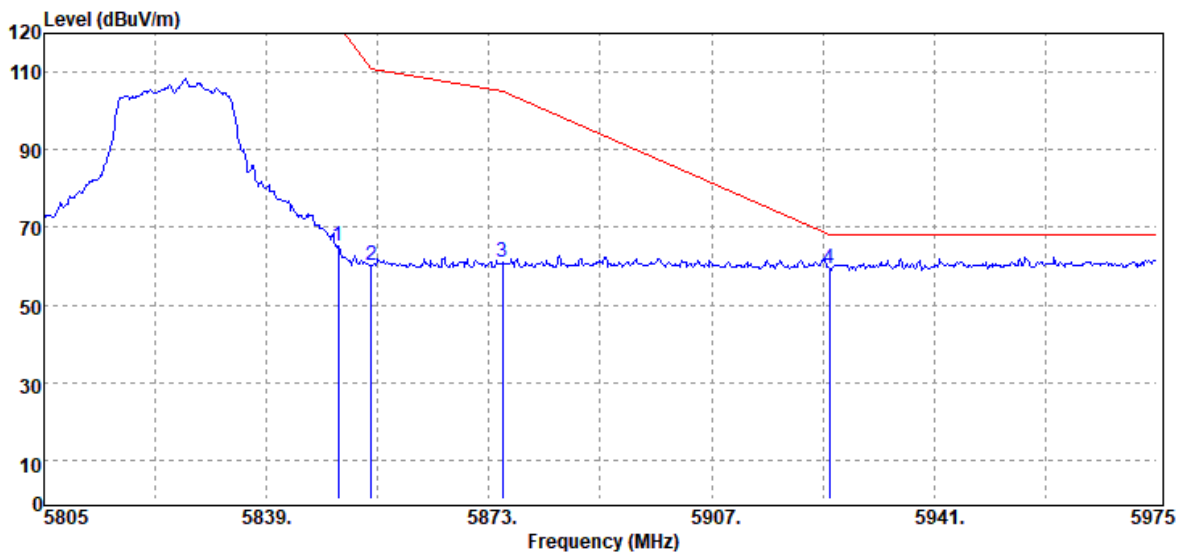
Test Mode	IEEE 802.11n 20 MHz / 5825 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	71.02	-8.60	62.42	122.20	-59.78
5855.00	Peak	68.63	-8.60	60.03	110.80	-50.77
5875.00	Peak	68.35	-8.59	59.76	105.20	-45.44
5925.00	Peak	68.59	-8.65	59.94	68.20	-8.26

Report No.: T200522D10-RP4

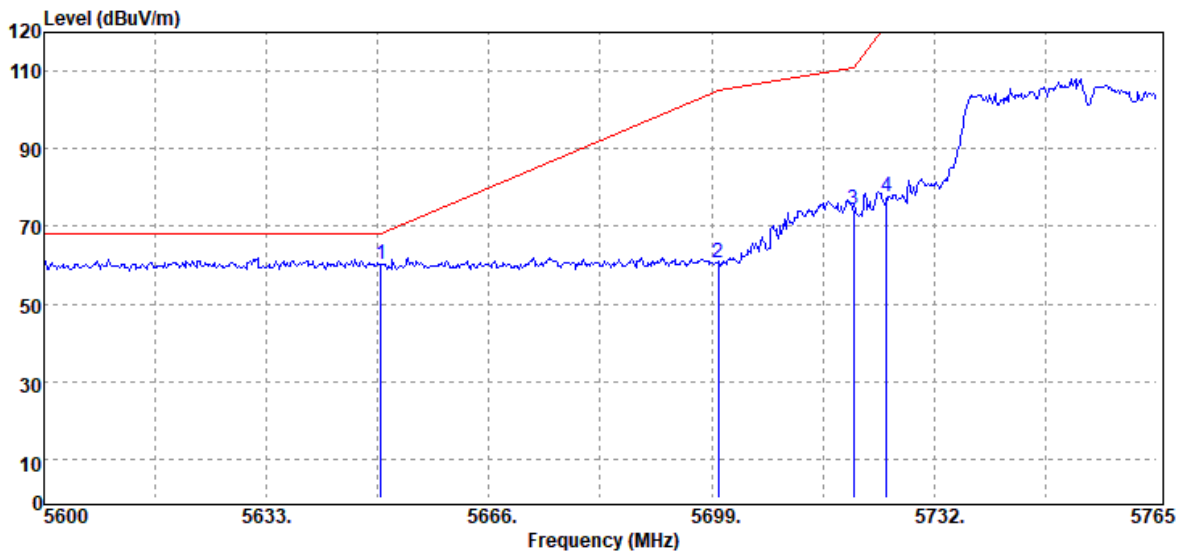
Test Mode	IEEE 802.11n 20 MHz / 5825 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	73.97	-8.60	65.37	122.20	-56.83
5855.00	Peak	68.92	-8.60	60.32	110.80	-50.48
5875.00	Peak	69.61	-8.59	61.02	105.20	-44.18
5925.00	Peak	68.00	-8.65	59.35	68.20	-8.85

Report No.: T200522D10-RP4

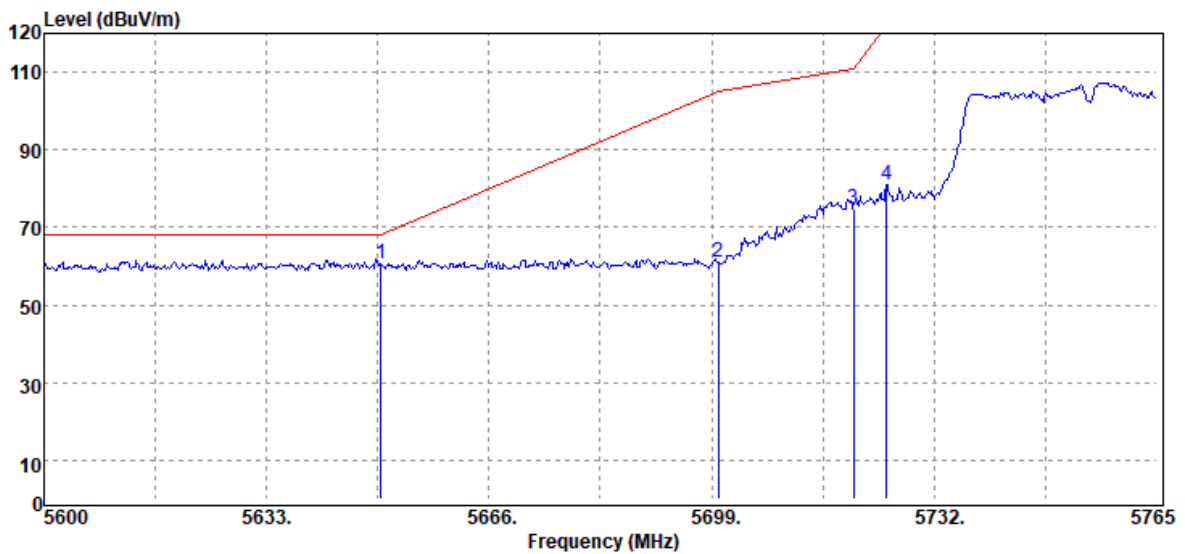
Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	68.83	-8.76	60.07	68.20	-8.13
5700.00	Peak	69.45	-8.64	60.81	105.20	-44.39
5720.00	Peak	83.01	-8.58	74.43	110.80	-36.37
5725.00	Peak	86.07	-8.57	77.50	122.20	-44.70

Report No.: T200522D10-RP4

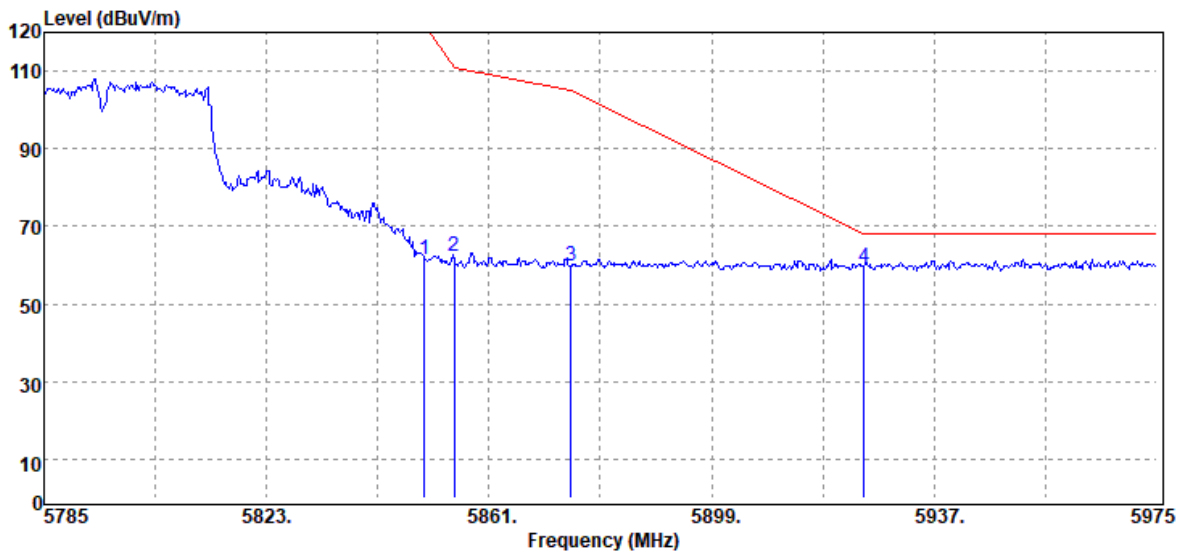
Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	69.57	-8.76	60.81	68.20	-7.39
5700.00	Peak	69.56	-8.64	60.92	105.20	-44.28
5720.00	Peak	83.36	-8.58	74.78	110.80	-36.02
5725.00	Peak	89.50	-8.57	80.93	122.20	-41.27

Report No.: T200522D10-RP4

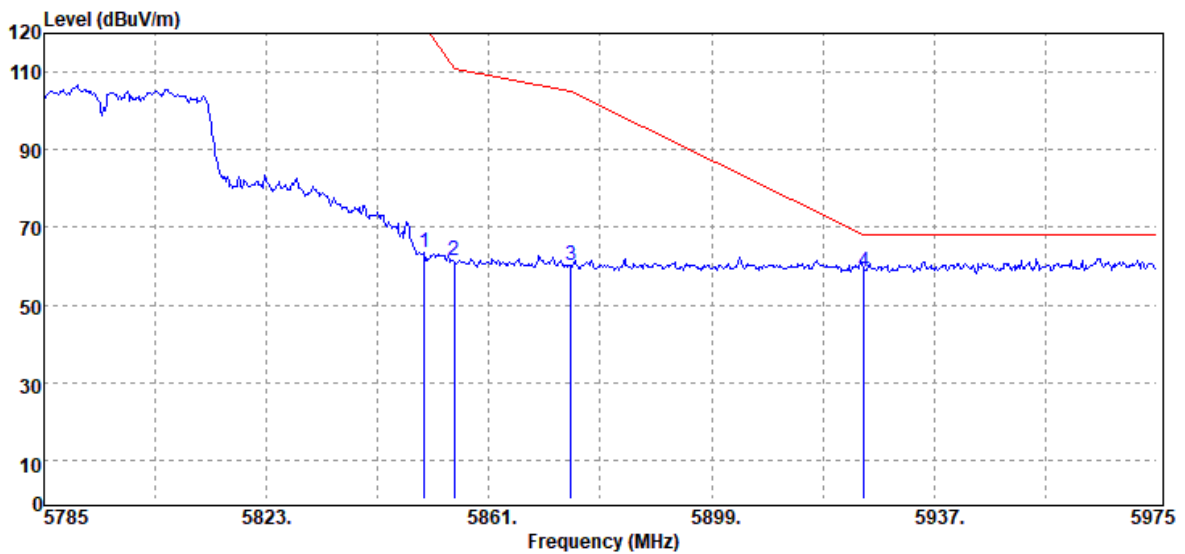
Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	70.11	-8.60	61.51	122.20	-60.69
5855.00	Peak	70.69	-8.60	62.09	110.80	-48.71
5875.00	Peak	68.41	-8.59	59.82	105.20	-45.38
5925.00	Peak	67.86	-8.65	59.21	68.20	-8.99

Report No.: T200522D10-RP4

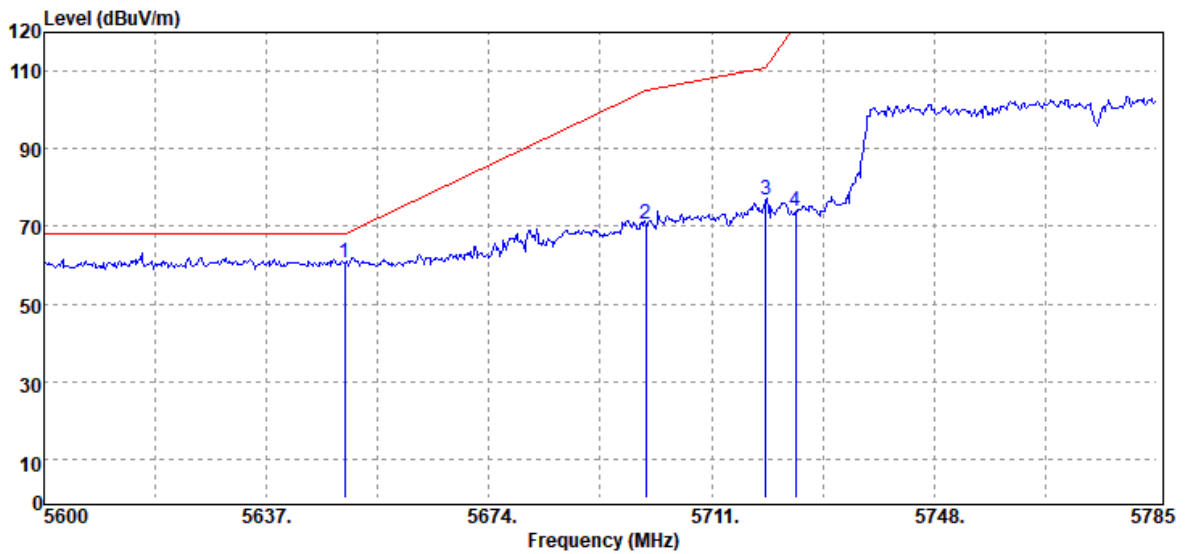
Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	72.06	-8.60	63.46	122.20	-58.74
5855.00	Peak	69.88	-8.60	61.28	110.80	-49.52
5875.00	Peak	68.70	-8.59	60.11	105.20	-45.09
5925.00	Peak	67.04	-8.65	58.39	68.20	-9.81

Report No.: T200522D10-RP4

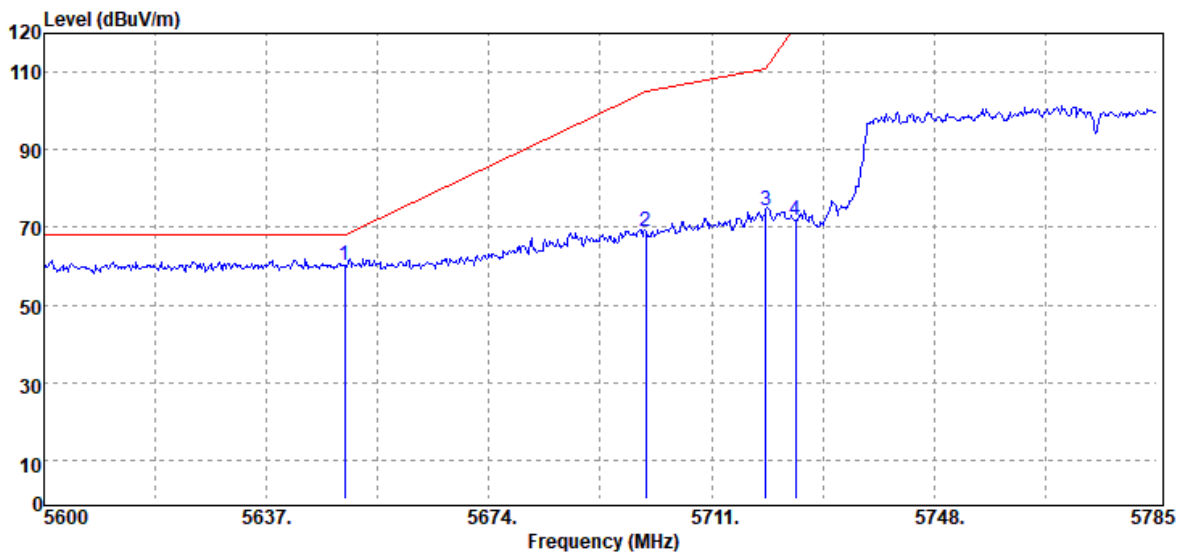
Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	69.28	-8.76	60.52	68.20	-7.68
5700.00	Peak	79.36	-8.64	70.72	105.20	-34.48
5720.00	Peak	85.52	-8.58	76.94	110.80	-33.86
5725.00	Peak	82.38	-8.57	73.81	122.20	-48.39

Report No.: T200522D10-RP4

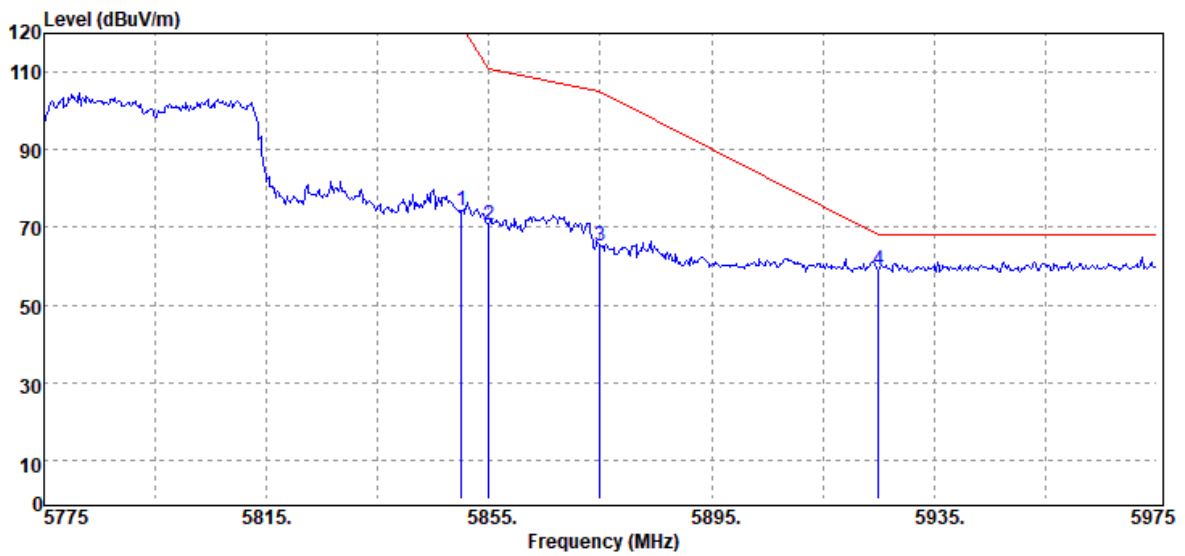
Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	69.04	-8.76	60.28	68.20	-7.92
5700.00	Peak	77.45	-8.64	68.81	105.20	-36.39
5720.00	Peak	82.76	-8.58	74.18	110.80	-36.62
5725.00	Peak	80.48	-8.57	71.91	122.20	-50.29

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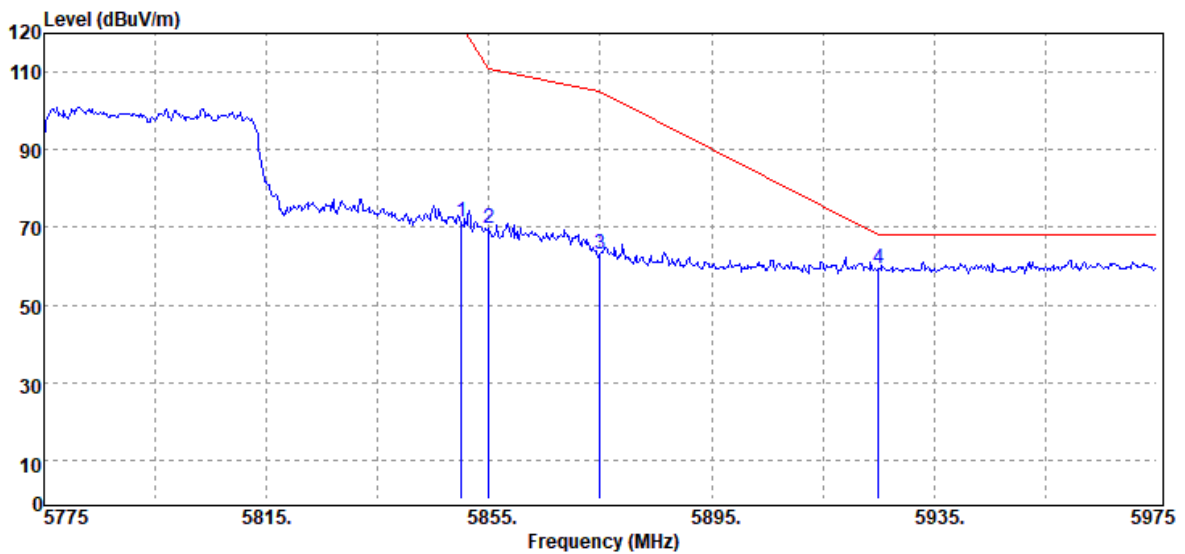
Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	82.98	-8.60	74.38	122.20	-47.82
5855.00	Peak	79.25	-8.60	70.65	110.80	-40.15
5875.00	Peak	73.75	-8.59	65.16	105.20	-40.04
5925.00	Peak	67.71	-8.65	59.06	68.20	-9.14

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Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	20.9(°C)/ 71%RH
Test Item	Band Edge	Test Date	December 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

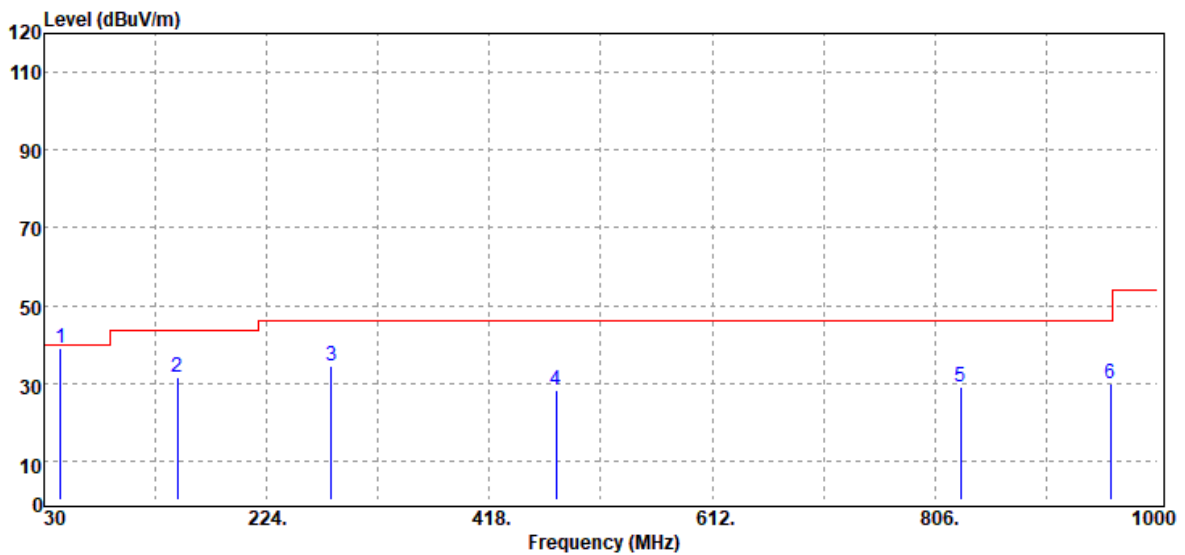


Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5850.00	Peak	79.85	-8.60	71.25	122.20	-50.95
5855.00	Peak	78.37	-8.60	69.77	110.80	-41.03
5875.00	Peak	71.78	-8.59	63.19	105.20	-42.01
5925.00	Peak	68.13	-8.65	59.48	68.20	-8.72

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Below 1G Test Data

Test Mode	Mode 2	Temp/Hum	21.9(°C)/ 68%RH
Test Item	30MHz-1GHz	Test Date	December 07, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

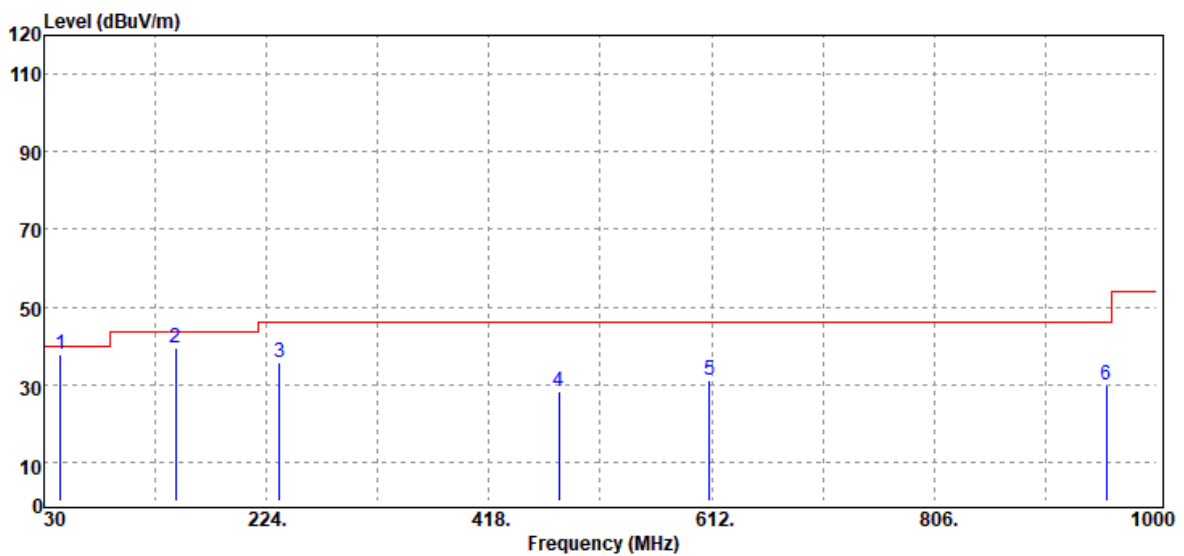


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
44.55	Peak	51.92	-12.85	39.07	40.00	-0.93
146.40	Peak	41.81	-10.35	31.46	43.50	-12.04
280.26	Peak	43.20	-8.67	34.53	46.00	-11.47
476.20	Peak	31.71	-3.45	28.26	46.00	-17.74
828.31	Peak	26.79	2.08	28.87	46.00	-17.13
959.26	Peak	26.24	3.76	30.00	46.00	-16.00

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Report No.: T200522D10-RP4

Test Mode	Mode 2	Temp/Hum	21.9(°C)/ 68%RH
Test Item	30MHz-1GHz	Test Date	December 07, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
44.55	Peak	50.67	-12.85	37.82	40.00	-2.18
144.46	Peak	49.49	-10.18	39.31	43.50	-4.19
235.64	Peak	46.81	-10.94	35.87	46.00	-10.13
479.11	Peak	31.68	-3.39	28.29	46.00	-17.71
610.06	Peak	32.50	-1.55	30.95	46.00	-15.05
956.35	Peak	26.17	3.86	30.03	46.00	-15.97

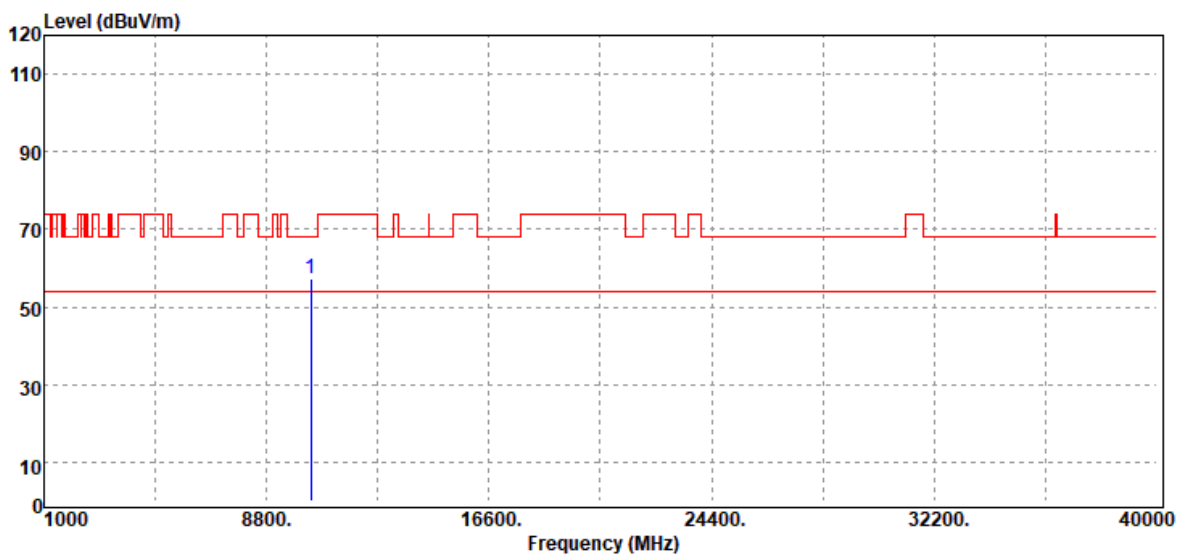
Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

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Above 1G

Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	20.8(°C)/ 71%RH
Test Item	Harmonic	Test Date	December 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	Peak	55.16	2.13	57.29	68.20	-10.91
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit