Wi-Fi 802.11 ac(HT80) mode

FCC 15.407 2017

Occupied Channel Bandwidth 99% (5210 MHz; 20.000 dBm; 80 MHz)

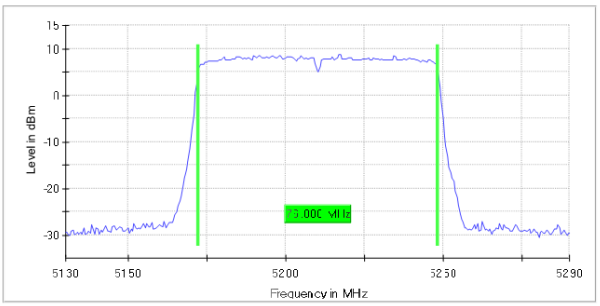
Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	76.000000	---	---	5172.250000	5248.250000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5210.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	20 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.29 dB	0.30 dB

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.4: Test Results of Radiated Spurious Emissions

30MHz - 1GHz (Worst case)

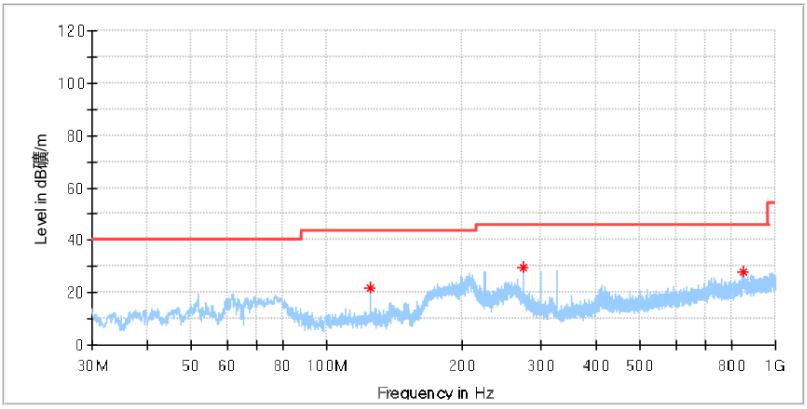
Wi-Fi 802.11 a mode

Test 1 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
124.963000	22.03	---	43.50	21.47	100.0	H	150.0	-21.6
274.973500	29.40	---	46.00	16.60	100.0	H	133.0	-17.2
845.964000	28.03	---	46.00	17.97	100.0	H	216.0	-6.0

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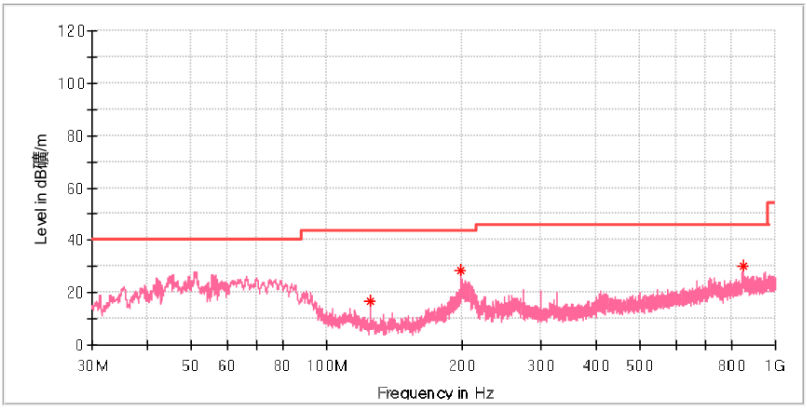
Note: The highest waveform in the figure is Wi-Fi Fundamental.

Test 2 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

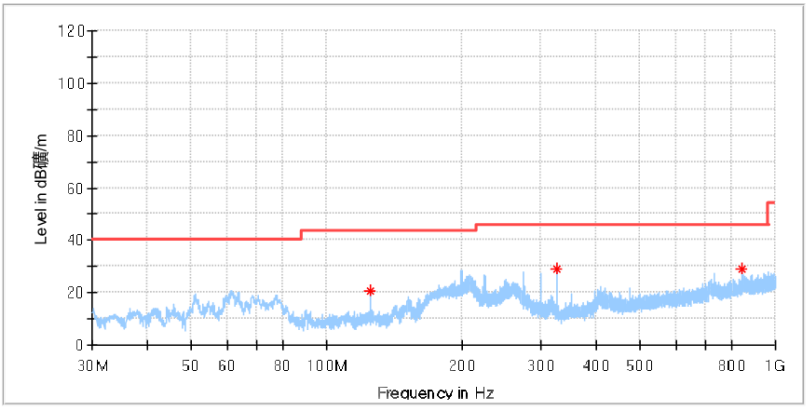
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
125.011500	16.69	---	43.50	26.81	100.0	V	312.0	-21.6
199.216500	28.21	---	43.50	15.29	100.0	V	234.0	-19.4
846.109500	29.98	---	46.00	16.02	100.0	V	167.0	-6.0

Test 3 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

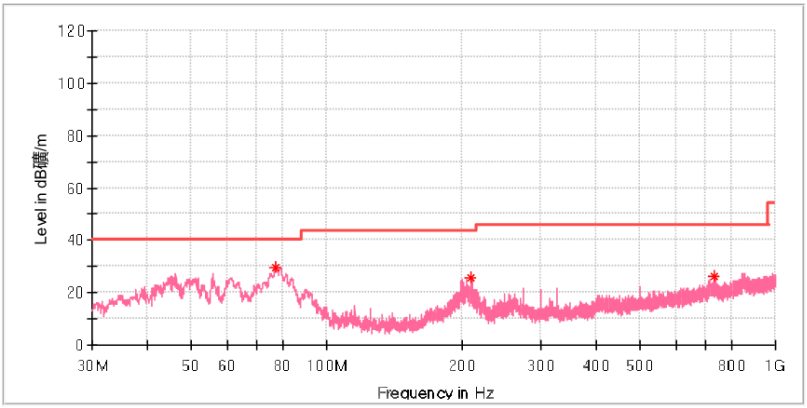
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
125.011500	20.83	---	43.50	22.67	100.0	H	171.0	-21.6
324.977000	28.86	---	46.00	17.14	100.0	H	179.0	-15.9
844.800000	29.15	---	46.00	16.85	100.0	H	253.0	-6.0

Test 4 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
77.093500	29.39	---	40.00	10.61	100.0	V	267.0	-23.7
210.323000	25.44	---	43.50	18.06	100.0	V	226.0	-19.2
729.612500	26.42	---	46.00	19.58	100.0	V	2.0	-7.9

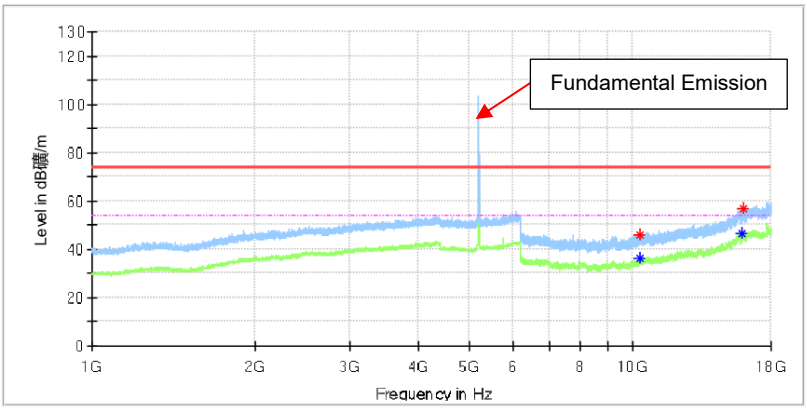
1GHz - 18GHz
Wi-Fi 802.11 a mode

Test 1 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10309.841667	---	36.44	54.00	17.56	100.0	H	76.0	11.6
10310.825000	46.00	---	74.00	28.00	100.0	H	3.0	11.6
15941.883333	---	46.77	54.00	7.23	100.0	H	96.0	19.6
15949.750000	57.02	---	74.00	16.98	100.0	H	200.0	19.6

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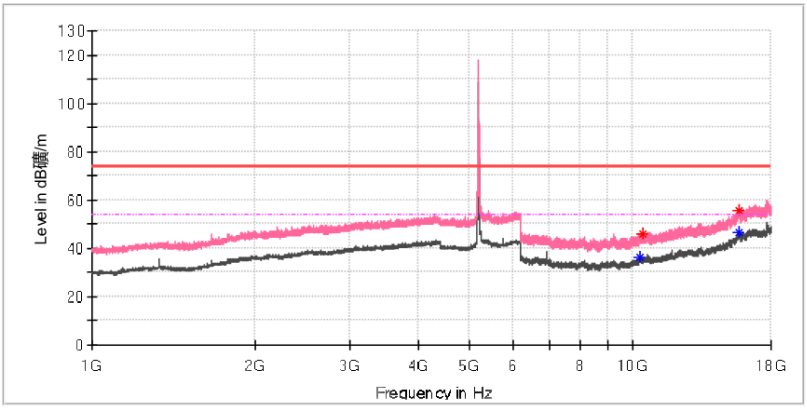
Test 2 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

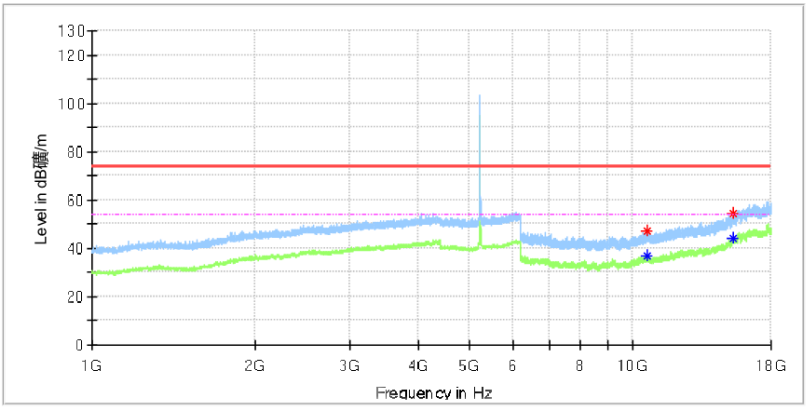
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10310.825000	---	36.05	54.00	17.95	100.0	V	297.0	11.6
10407.683333	46.19	---	74.00	27.81	100.0	V	0.0	11.9
15687.691667	55.79	---	74.00	18.21	100.0	V	317.0	19.0
15703.425000	---	46.36	54.00	7.64	100.0	V	277.0	19.1

Test 3 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Mid
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

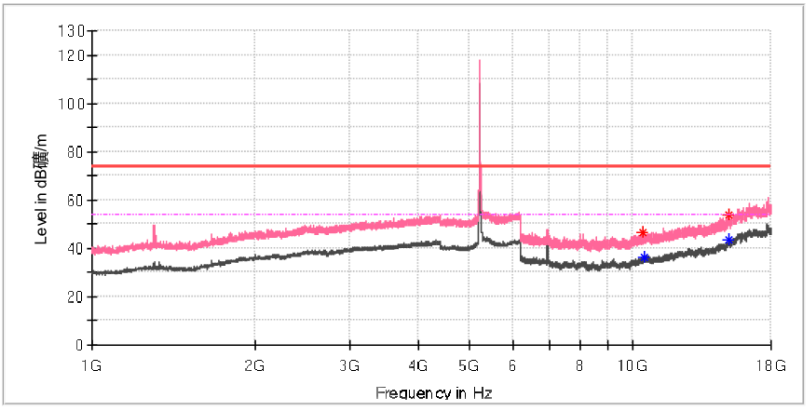
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10624.508333	47.10	---	74.00	26.90	100.0	H	147.0	12.0
10626.475000	---	36.82	54.00	17.18	100.0	H	27.0	12.0
15315.008333	54.60	---	74.00	19.41	100.0	H	207.0	18.0
15315.500000	---	44.28	54.00	9.72	100.0	H	249.0	18.0

Test 4 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Mid
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

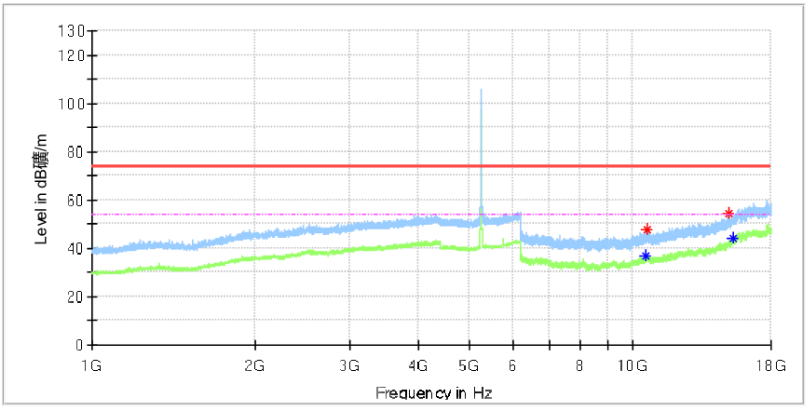
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10409.158333	46.48	---	74.00	27.52	100.0	V	239.0	11.9
10476.025000	---	36.03	54.00	17.97	100.0	V	117.0	12.0
15019.516667	53.57	---	74.00	20.43	100.0	V	239.0	17.7
15041.150000	---	43.63	54.00	10.37	100.0	V	298.0	17.7

Test 5 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

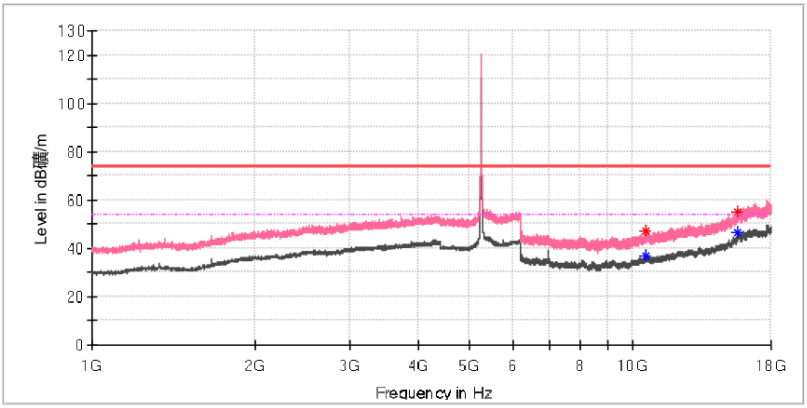
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10573.375000	---	36.83	54.00	17.17	100.0	H	20.0	12.0
10654.500000	47.62	---	74.00	26.38	100.0	H	6.0	12.0
15074.091667	54.36	---	74.00	19.64	100.0	H	80.0	17.7
15280.591667	---	44.14	54.00	9.86	100.0	H	60.0	17.9

Test 6 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10543.875000	47.34	---	74.00	26.66	100.0	V	339.0	12.0
10551.250000	---	36.60	54.00	17.40	100.0	V	47.0	12.0
15607.550000	---	46.69	54.00	7.31	100.0	V	0.0	18.7
15614.433333	55.23	---	74.00	18.77	100.0	V	177.0	18.7

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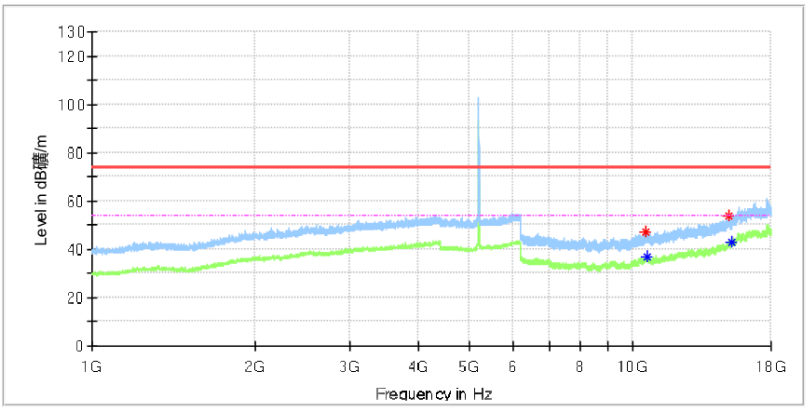
Wi-Fi 802.11 n(HT20) mode

Test 1 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10577.800000	47.20	---	74.00	26.80	100.0	H	229.0	12.0
10616.150000	---	36.86	54.00	17.14	100.0	H	295.0	12.0
15025.416667	53.89	---	74.00	20.11	100.0	H	316.0	17.7
15207.333333	---	43.17	54.00	10.83	100.0	H	295.0	17.8

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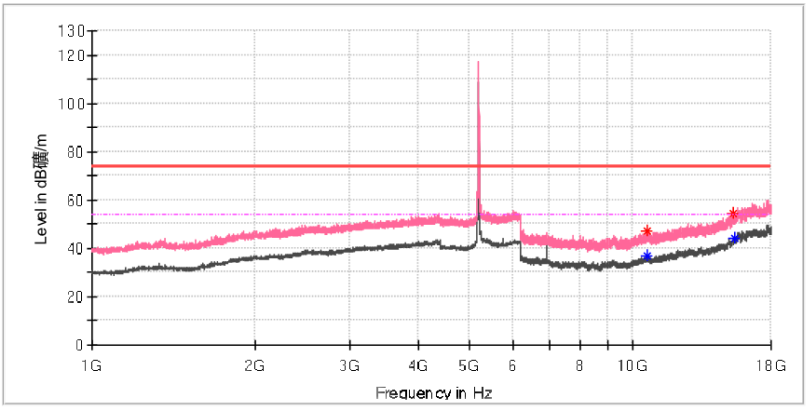
Test 2 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

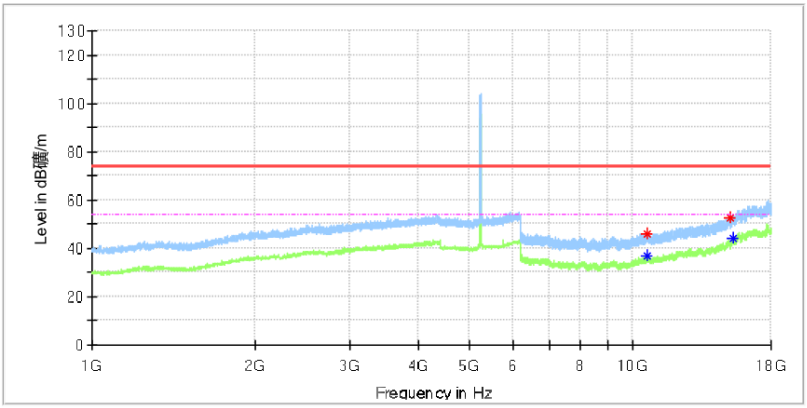
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10626.966667	---	36.85	54.00	17.15	100.0	V	145.0	12.0
10653.025000	47.04	---	74.00	26.96	100.0	V	33.0	12.0
15352.375000	54.59	---	74.00	19.41	100.0	V	234.0	18.0
15397.608333	---	44.23	54.00	9.77	100.0	V	0.0	18.0

Test 3 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_Mid
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

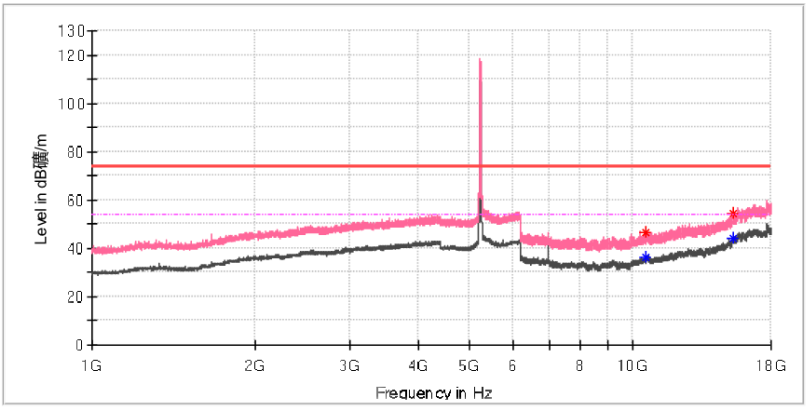
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10618.116667	46.09	---	74.00	27.91	100.0	H	322.0	12.0
10638.275000	---	36.98	54.00	17.02	100.0	H	200.0	12.0
15120.308333	52.70	---	74.00	21.30	100.0	H	180.0	17.7
15299.766667	---	44.31	54.00	9.69	100.0	H	281.0	17.9

Test 4 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_Mid
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

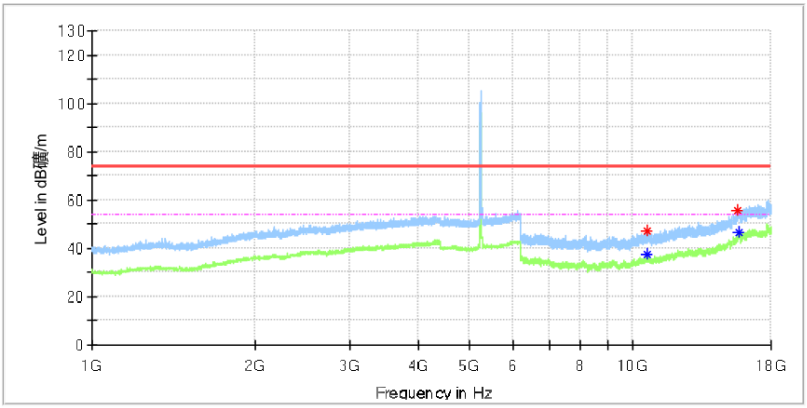
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10571.900000	46.53	---	74.00	27.47	100.0	V	33.0	12.0
10582.716667	---	36.53	54.00	17.47	100.0	V	251.0	12.0
15306.158333	54.37	---	74.00	19.63	100.0	V	33.0	17.9
15312.550000	---	44.06	54.00	9.94	100.0	V	271.0	18.0

Test 5 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

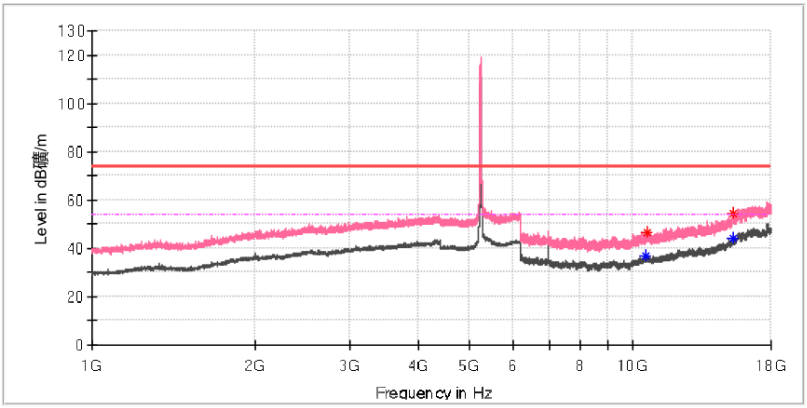
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10647.616667	---	37.22	54.00	16.78	100.0	H	313.0	12.0
10656.958333	47.09	---	74.00	26.91	100.0	H	73.0	12.0
15651.800000	55.79	---	74.00	18.21	100.0	H	236.0	18.9
15659.175000	---	46.47	54.00	7.53	100.0	H	216.0	18.9

Test 6 / 6

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10590.583333	---	36.73	54.00	17.27	100.0	V	2.0	12.1
10656.466667	46.42	---	74.00	27.58	100.0	V	0.0	12.0
15333.200000	54.19	---	74.00	19.81	100.0	V	50.0	18.0
15341.558333	---	44.34	54.00	9.66	100.0	V	2.0	18.0

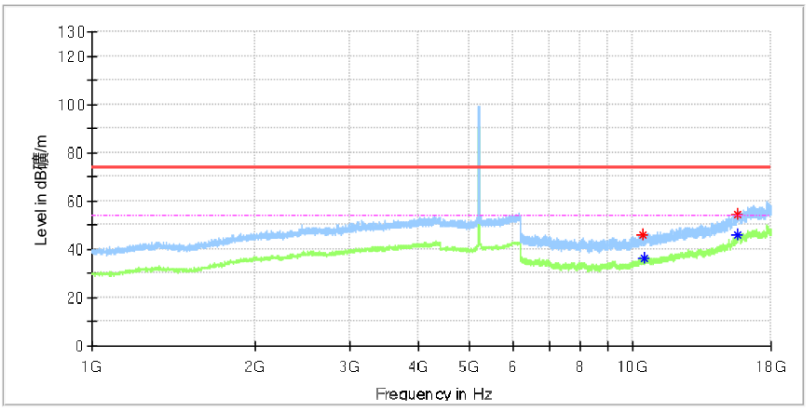
Wi-Fi 802.11 n(HT40) mode

Test 1 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10454.391667	45.70	---	74.00	28.30	100.0	H	245.0	12.0
10507.000000	---	36.05	54.00	17.95	100.0	H	207.0	12.0
15568.216667	54.61	---	74.00	19.39	100.0	H	106.0	18.5
15633.608333	---	46.23	54.00	7.77	100.0	H	22.0	18.9

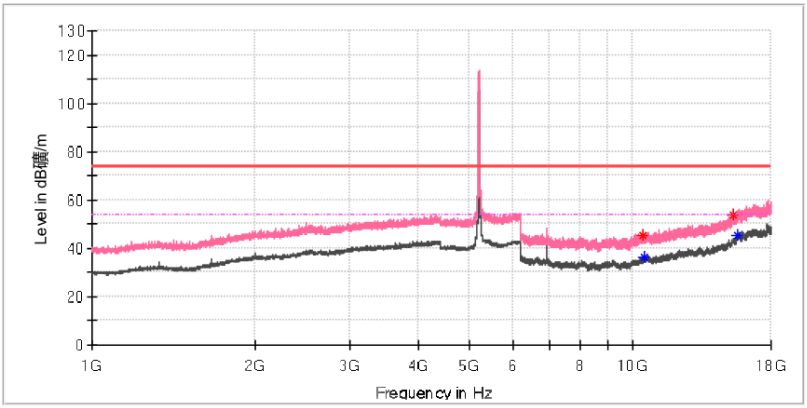
26/3/2020 10:35:42 AM

Test 2 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

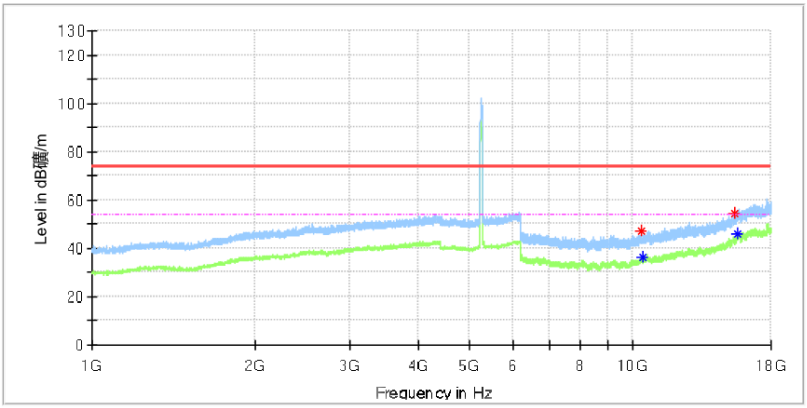
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10440.133333	45.50	---	74.00	28.50	100.0	V	176.0	11.9
10515.358333	---	36.12	54.00	17.88	100.0	V	75.0	12.0
15363.191667	53.96	---	74.00	20.04	100.0	V	195.0	18.0
15595.750000	---	45.25	54.00	8.75	100.0	V	17.0	18.6

Test 3 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

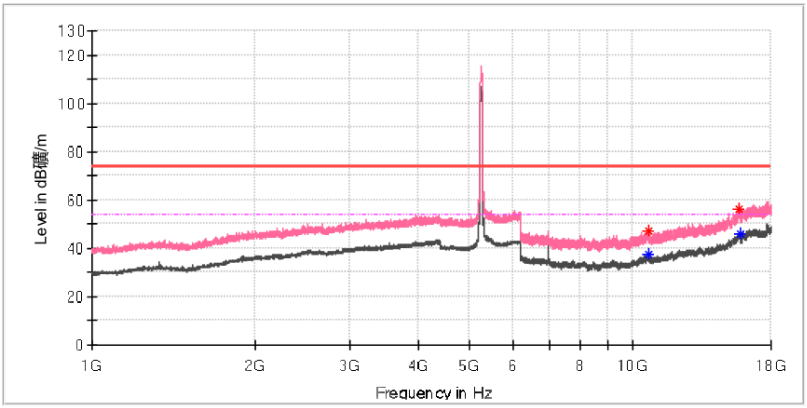
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10367.858333	47.21	---	74.00	26.79	100.0	H	259.0	11.8
10434.233333	---	36.48	54.00	17.52	100.0	H	278.0	11.9
15452.675000	54.58	---	74.00	19.42	100.0	H	335.0	18.1
15623.775000	---	46.14	54.00	7.86	100.0	H	240.0	18.8

Test 4 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10657.941667	47.37	---	74.00	26.63	100.0	V	128.0	12.0
10665.316667	---	37.51	54.00	16.49	100.0	V	332.0	11.9
15740.791667	56.46	---	74.00	17.54	100.0	V	228.0	19.1
15755.541667	---	45.93	54.00	8.07	100.0	V	288.0	19.2

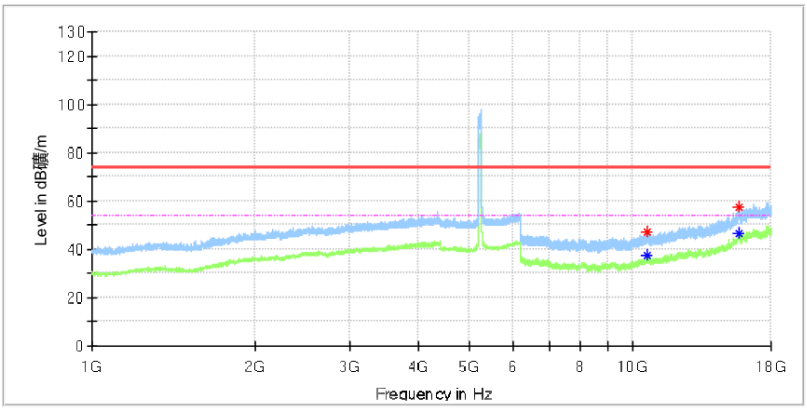
Wi-Fi 802.11 ac(HT80) mode

Test 1 / 2

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11ac80_TX
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

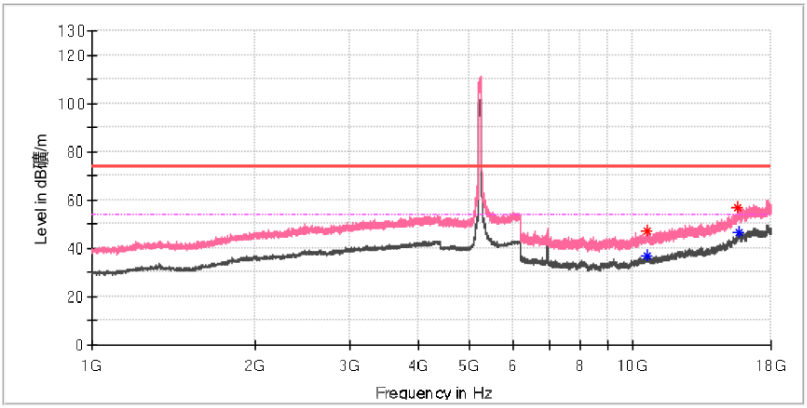
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10642.208333	47.29	---	74.00	26.71	100.0	H	168.0	12.0
10651.058333	---	37.46	54.00	16.54	100.0	H	357.0	12.0
15675.400000	57.16	---	74.00	16.84	100.0	H	207.0	19.0
15679.333333	---	46.29	54.00	7.71	100.0	H	189.0	19.0

Test 2 / 2

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11ac80_TX
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10633.850000	---	36.67	54.00	17.33	100.0	V	2.0	12.0
10655.483333	47.12	---	74.00	26.88	100.0	V	12.0	12.0
15627.216667	56.79	---	74.00	17.21	100.0	V	2.0	18.8
15664.583333	---	46.65	54.00	7.35	100.0	V	252.0	19.0

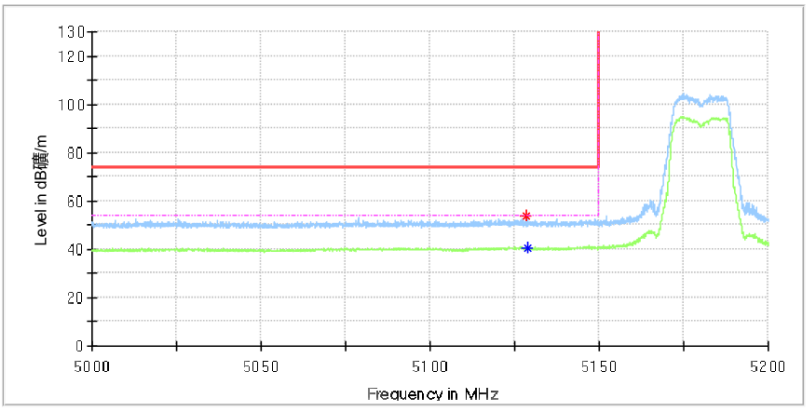
Appendix B.5: Test Results of Radiated Emissions in Restricted Bands
Wi-Fi 802.11 a mode

Test 1 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5128.611111	53.67	---	74.00	20.33	100.0	H	39.0	13.5
5128.944445	---	40.76	54.00	13.24	100.0	H	177.0	13.5

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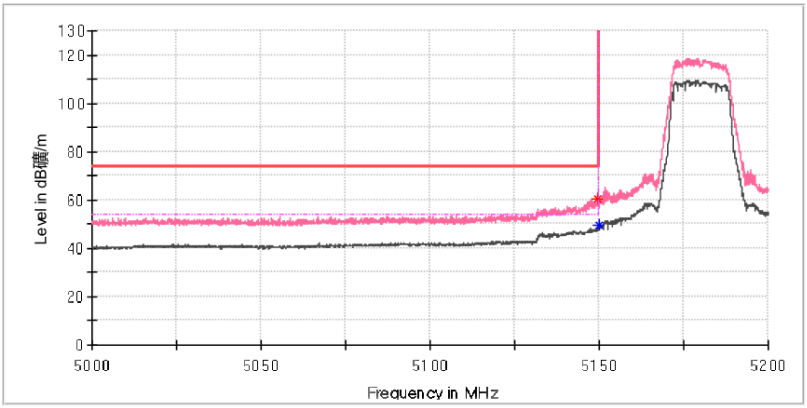
Test 2 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

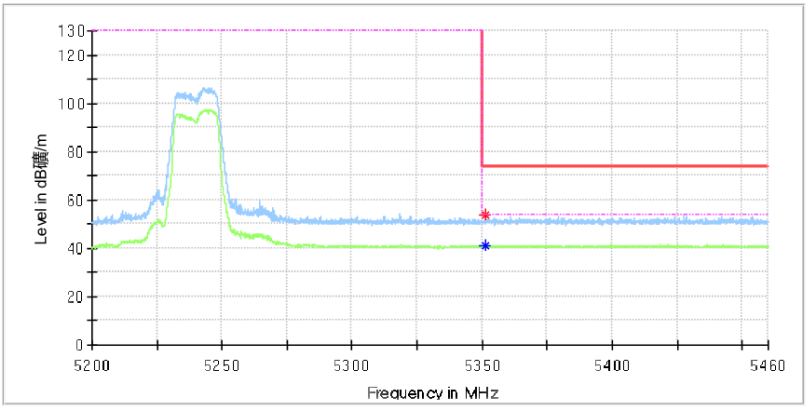
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.444445	60.65	---	74.00	13.35	100.0	V	17.0	13.6
5149.833333	---	49.40	54.00	4.60	100.0	V	328.0	13.6

Test 3 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

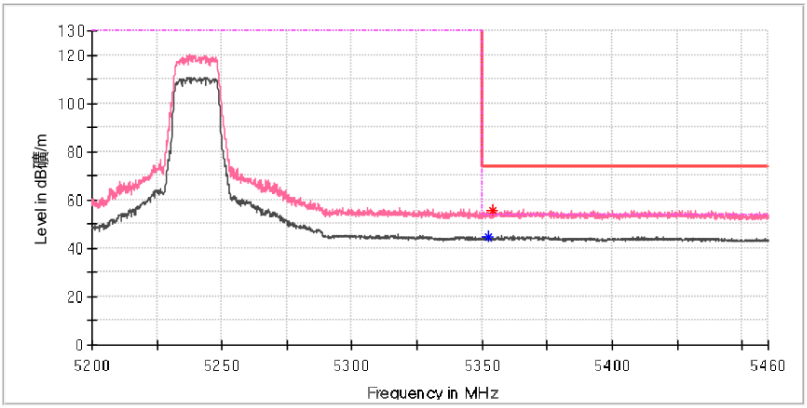
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5351.161111	53.88	---	74.00	20.12	100.0	H	321.0	14.2
5351.522222	---	41.25	54.00	12.75	100.0	H	179.0	14.2

Test 4 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11a_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5352.461111	---	44.69	54.00	9.31	100.0	V	334.0	14.2
5354.266667	55.64	---	74.00	18.36	100.0	V	334.0	14.2

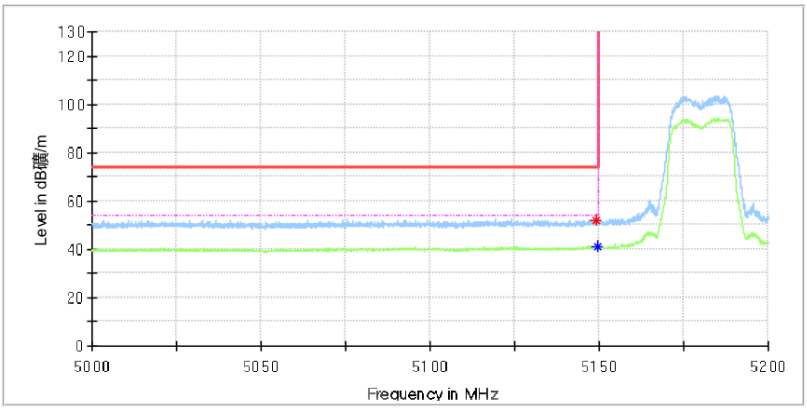
Wi-Fi 802.11 n(HT20) mode

Test 1 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

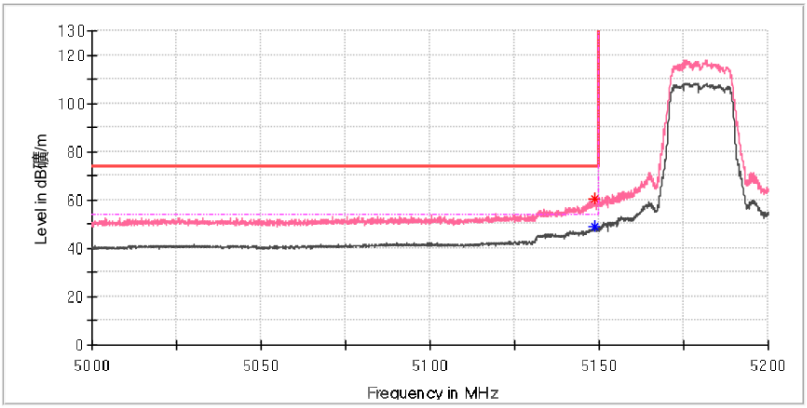
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.055556	52.18	---	74.00	21.82	100.0	H	326.0	13.6
5149.388889	---	41.31	54.00	12.69	100.0	H	42.0	13.6

Test 2 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

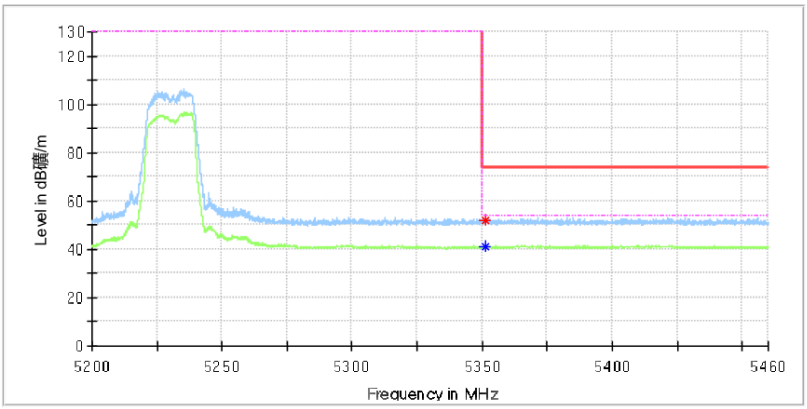
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.555556	60.23	---	74.00	13.77	100.0	V	20.0	13.6
5148.555556	---	48.86	54.00	5.14	100.0	V	20.0	13.6

Test 3 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

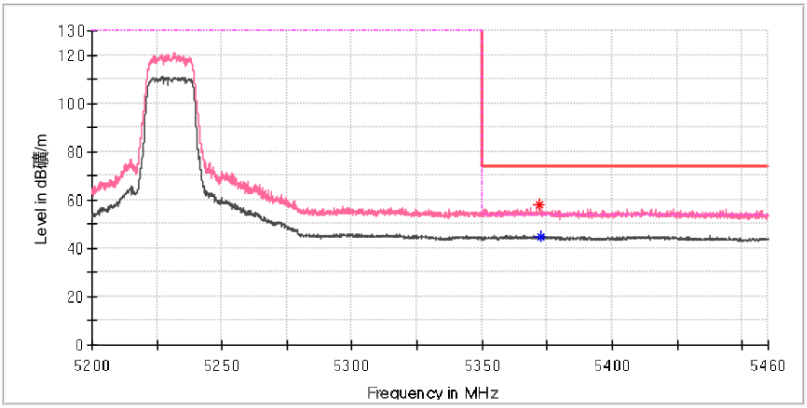
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5351.377778	---	41.14	54.00	12.86	100.0	H	106.0	14.2
5351.522222	52.09	---	74.00	21.91	100.0	H	147.0	14.2

Test 4 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n20_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5371.961111	57.84	---	74.00	16.16	100.0	V	350.0	14.3
5372.322222	---	44.67	54.00	9.33	100.0	V	350.0	14.3

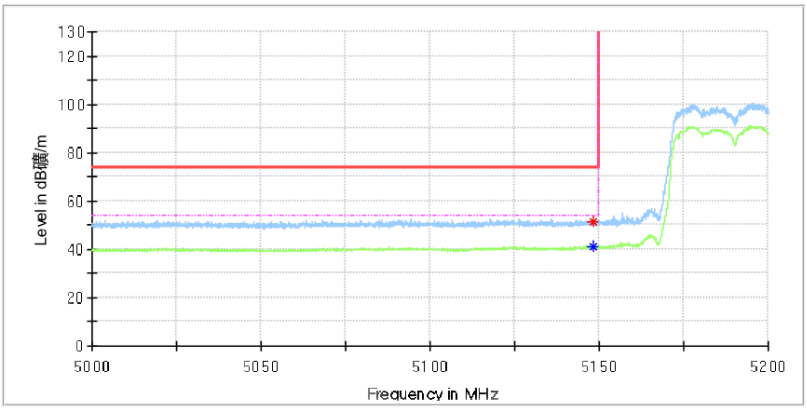
Wi-Fi 802.11 n(HT40) mode

Test 1 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

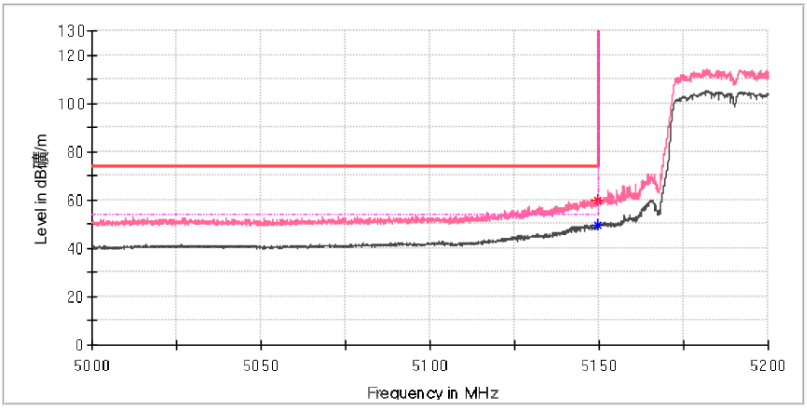
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.388889	51.44	---	74.00	22.56	100.0	H	250.0	13.6
5148.444445	---	41.19	54.00	12.81	100.0	H	17.0	13.6

Test 2 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_Low
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

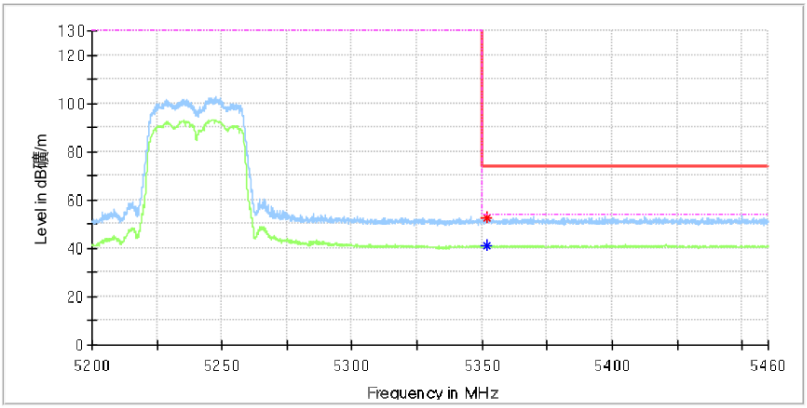
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.722222	60.15	---	74.00	13.85	100.0	V	1.0	13.6
5149.777778	---	49.77	54.00	4.23	100.0	V	0.0	13.6

Test 3 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

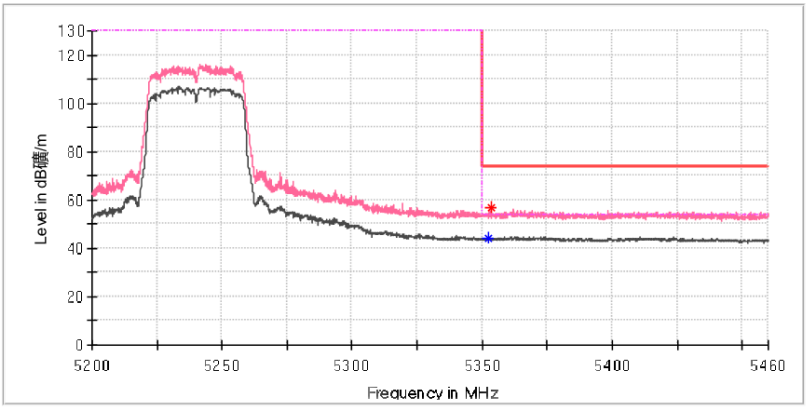
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5351.811111	---	41.06	54.00	12.94	100.0	H	252.0	14.2
5352.027778	52.47	---	74.00	21.53	100.0	H	237.0	14.2

Test 4 / 4

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11n40_TX_High
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5352.677778	---	44.32	54.00	9.68	100.0	V	343.0	14.2
5353.327778	56.63	---	74.00	17.37	100.0	V	343.0	14.2

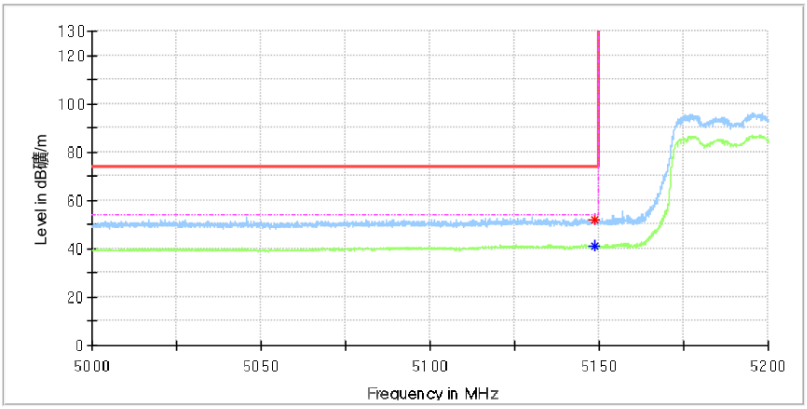
Wi-Fi 802.11 ac(HT80) mode

Test 1 / 2

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11ac80_TX
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.555556	52.28	---	74.00	21.72	100.0	H	17.0	13.6
5148.777778	---	41.30	54.00	12.70	100.0	H	75.0	13.6

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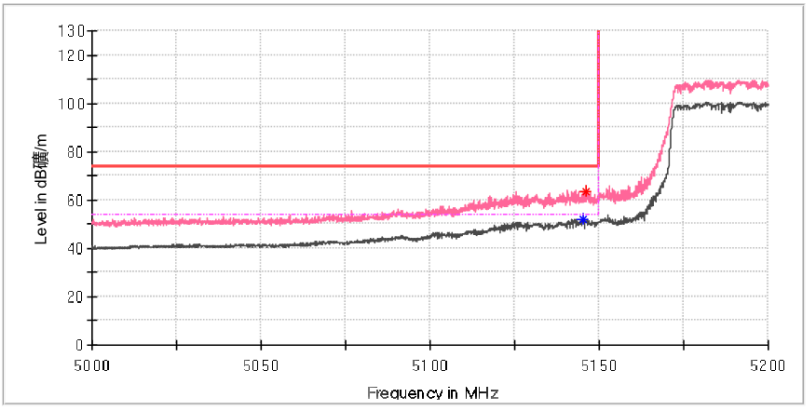
Test 2 / 2

Test Report

EUT Information

EUT Name:	MeshBox Tesla
Model:	SMMB1007
Test Mode:	Wi-Fi_5G Band 1_802.11ac80_TX
Test Voltage::	AC 120V@60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5145.388889	---	52.25	54.00	1.75	100.0	V	34.0	13.6
5146.055556	63.50	---	74.00	10.50	100.0	V	350.0	13.6