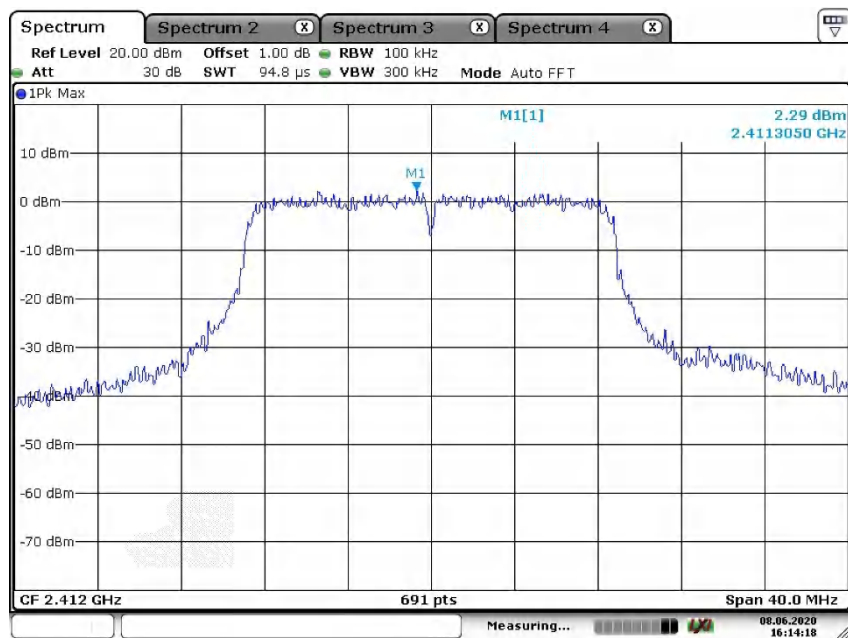
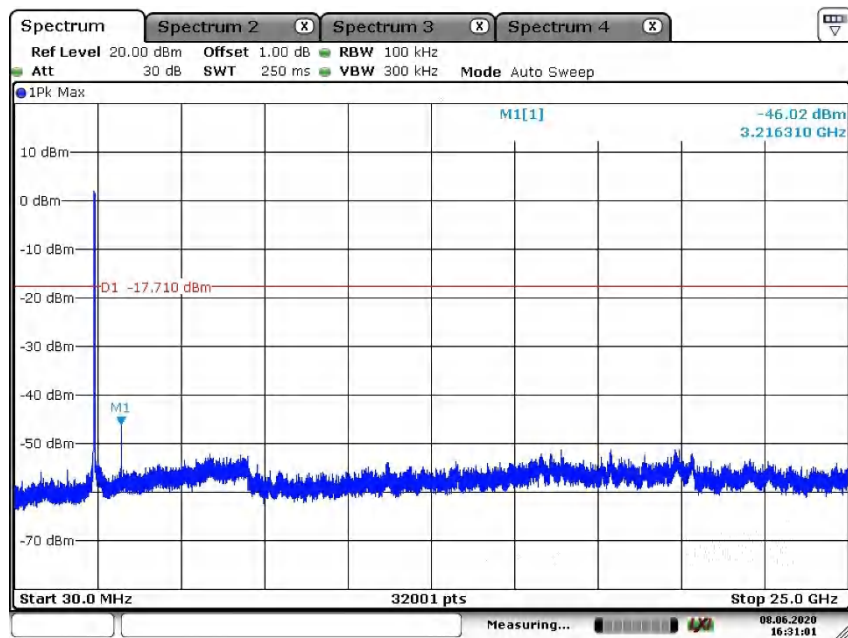


Wi-Fi 802.11 n(HT20) mode, MCS0

Low Channel

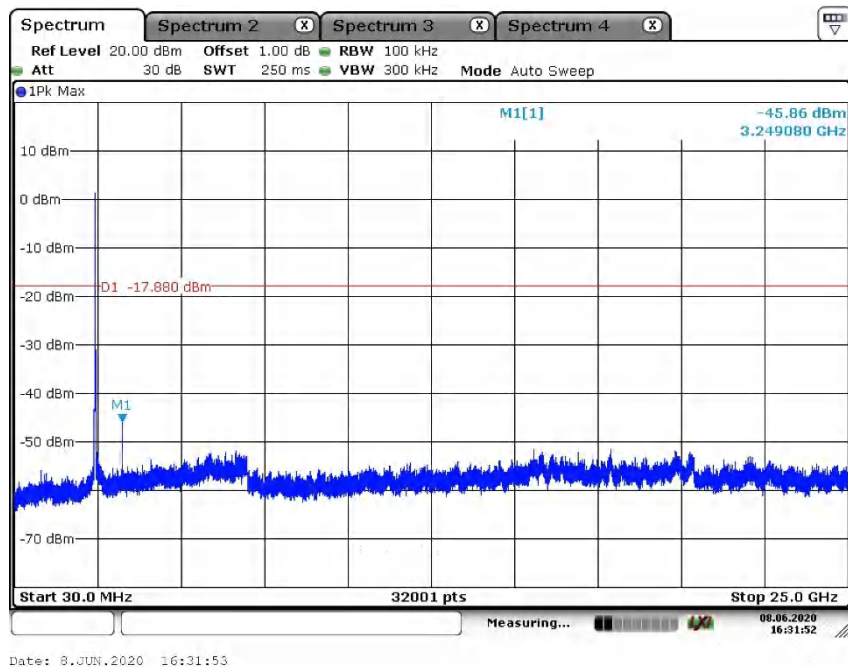
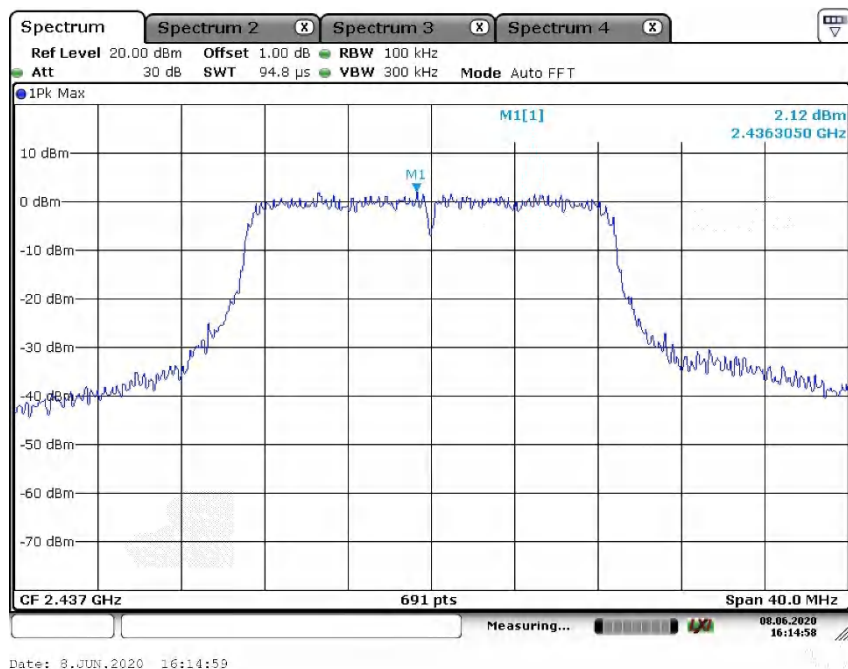


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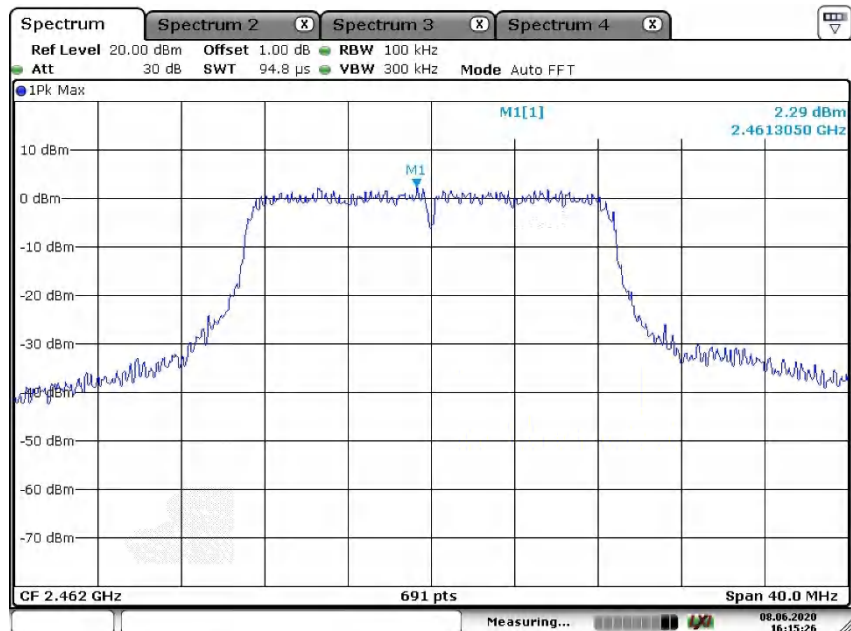


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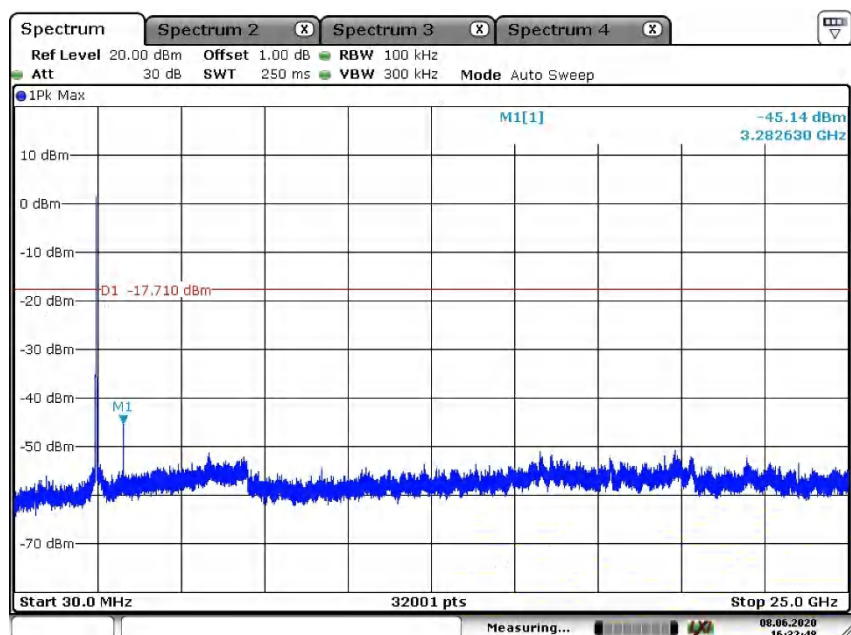
Middle Channel



High Channel

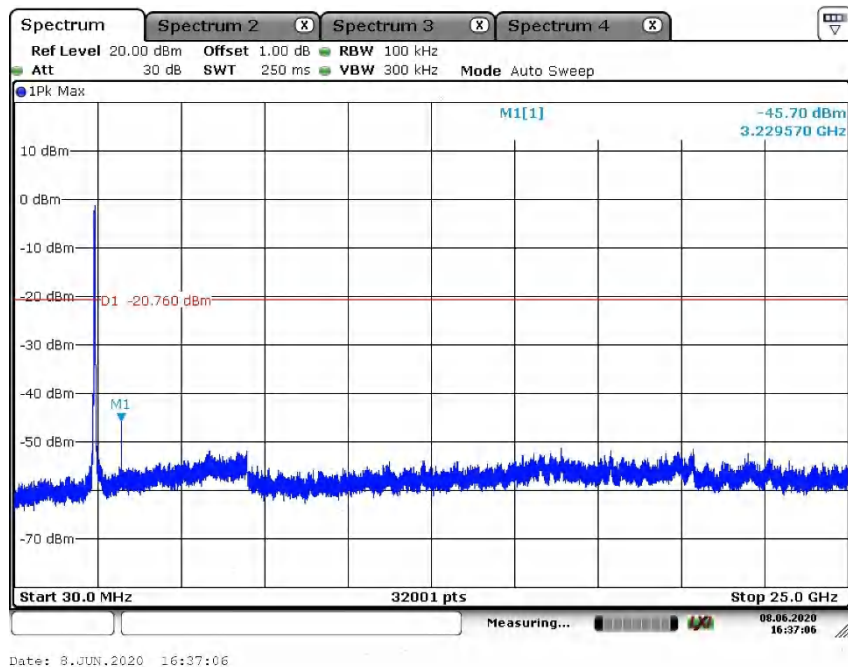
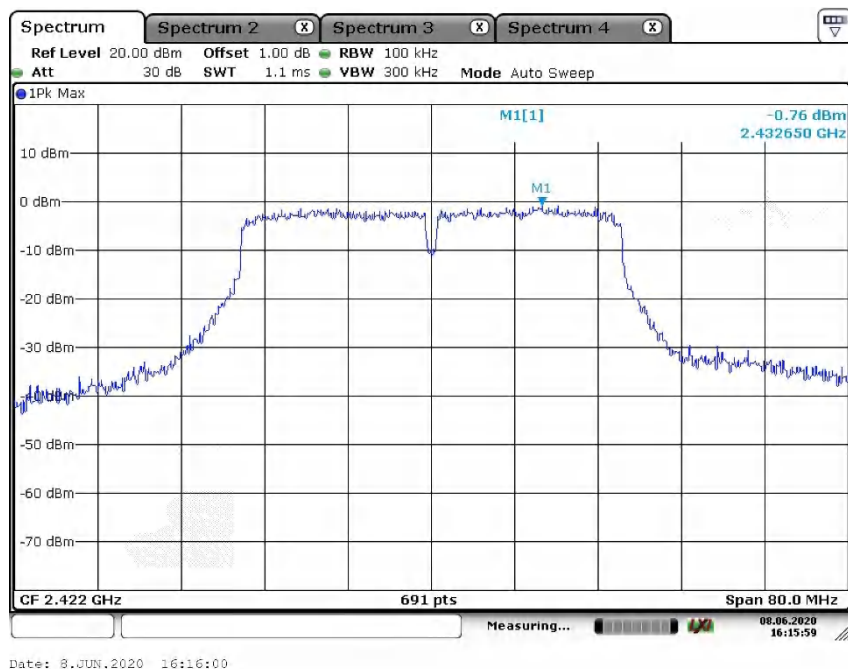


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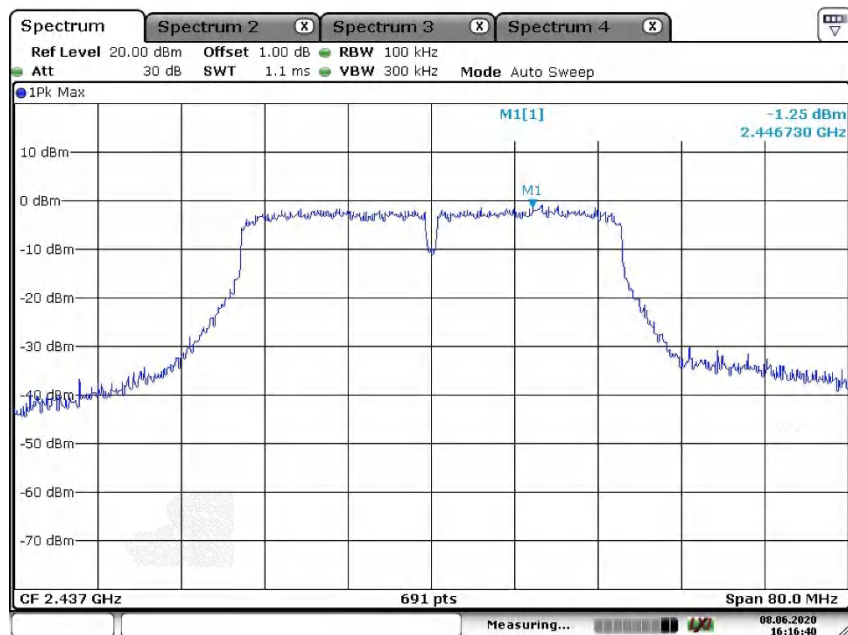


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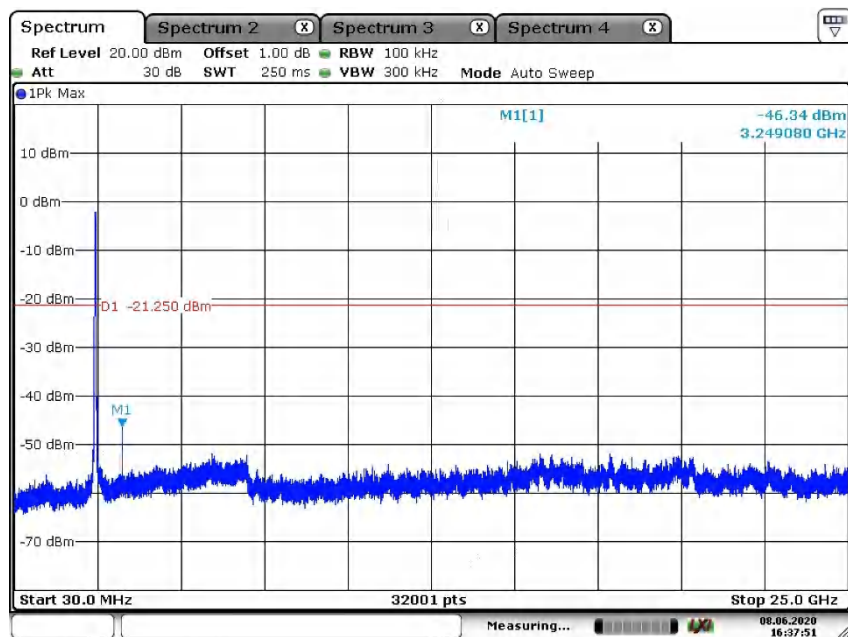
Wi-Fi 802.11 n(HT40) mode, MCS0
Low Channel



Middle Channel

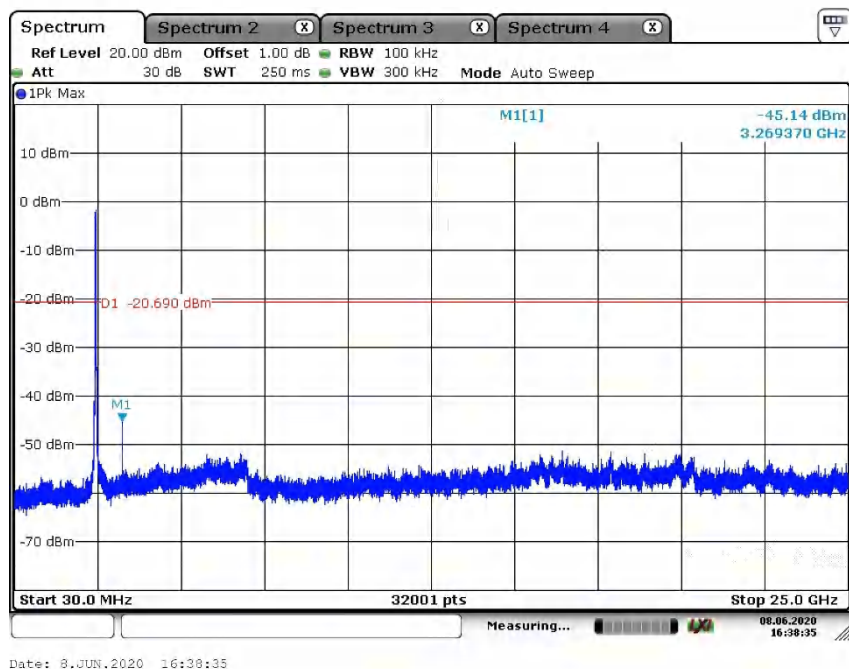
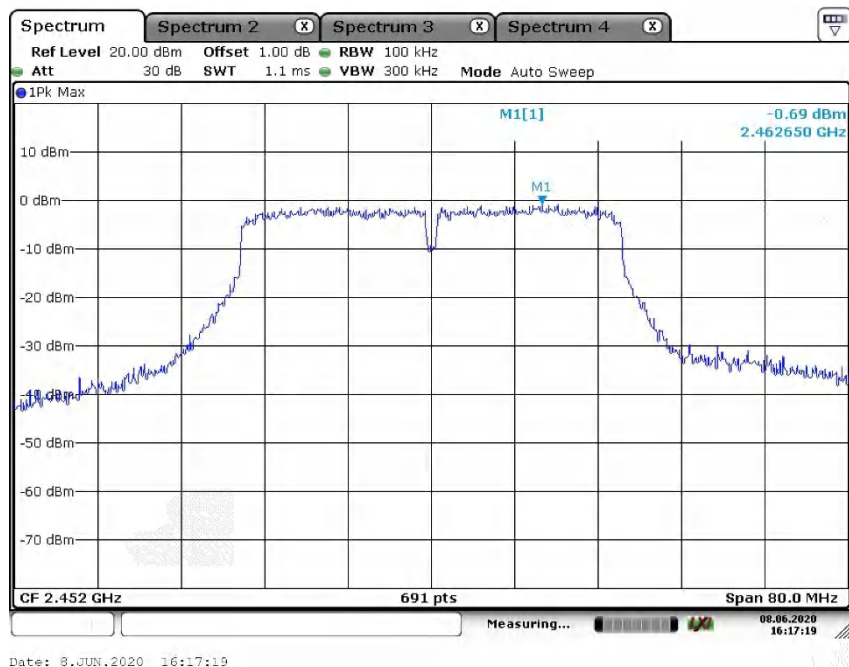


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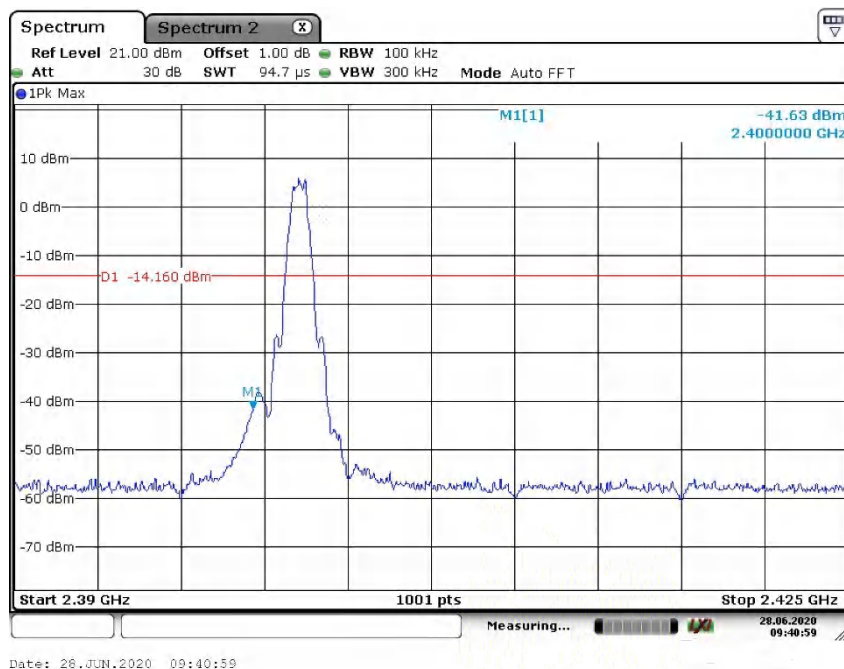
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High Channel

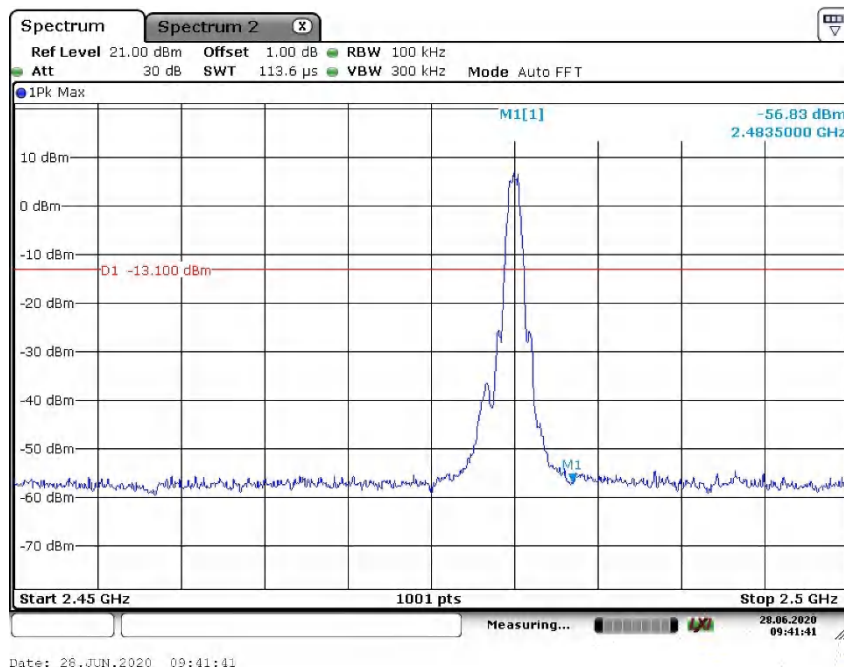


Bluetooth Low Energy, Band Edge

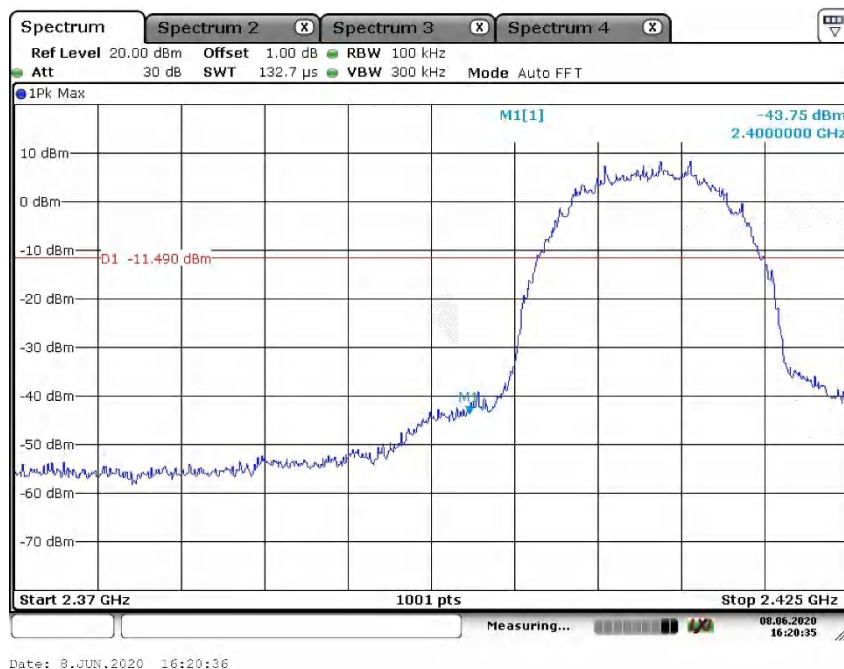
Low Channel



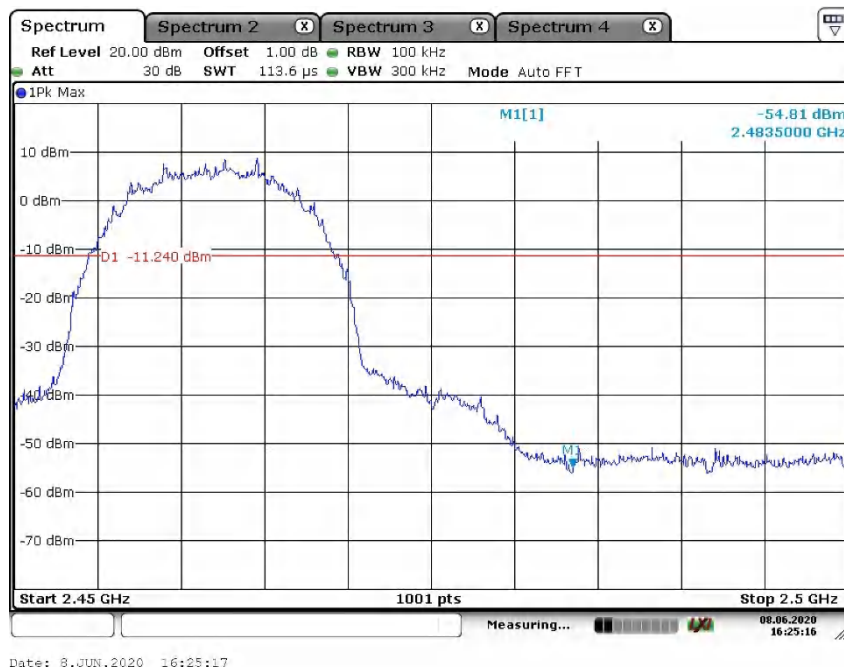
High Channel



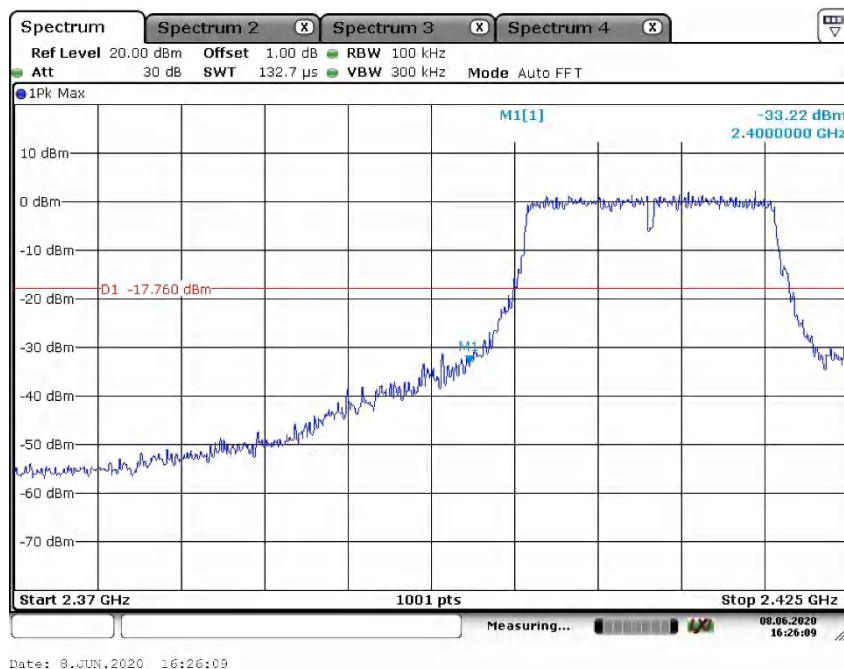
Wi-Fi 802.11 b mode, Band Edge Low Channel



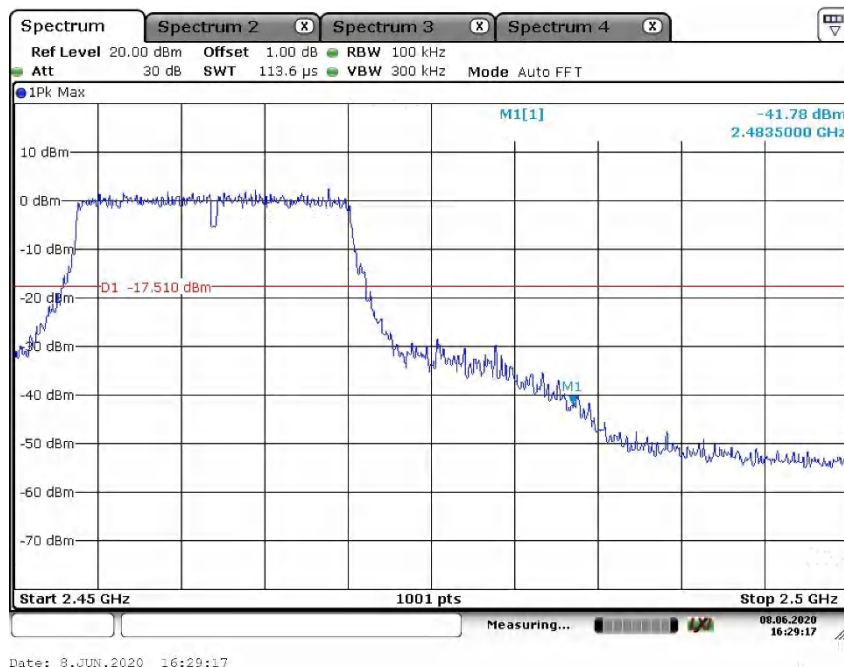
High Channel



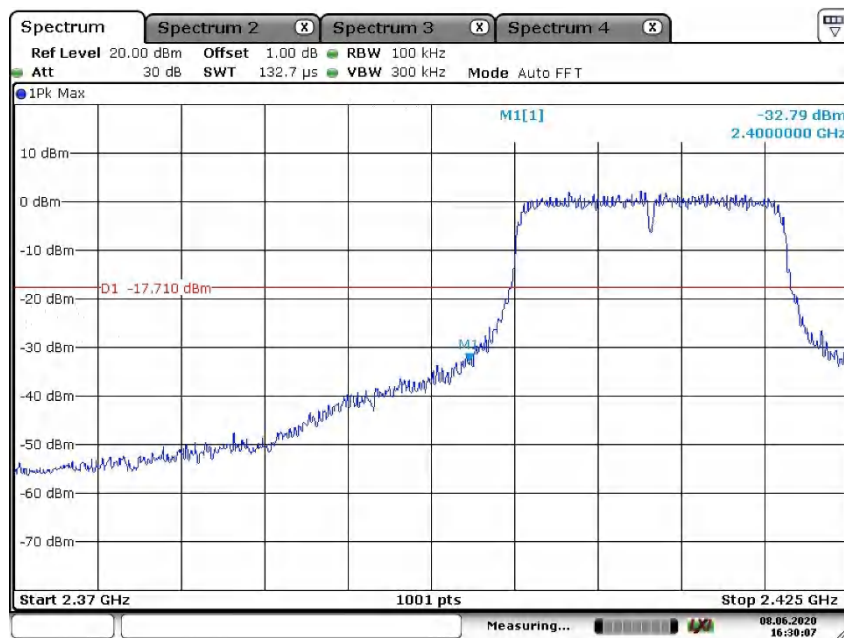
Wi-Fi 802.11 g mode, Band Edge
Low Channel



High Channel

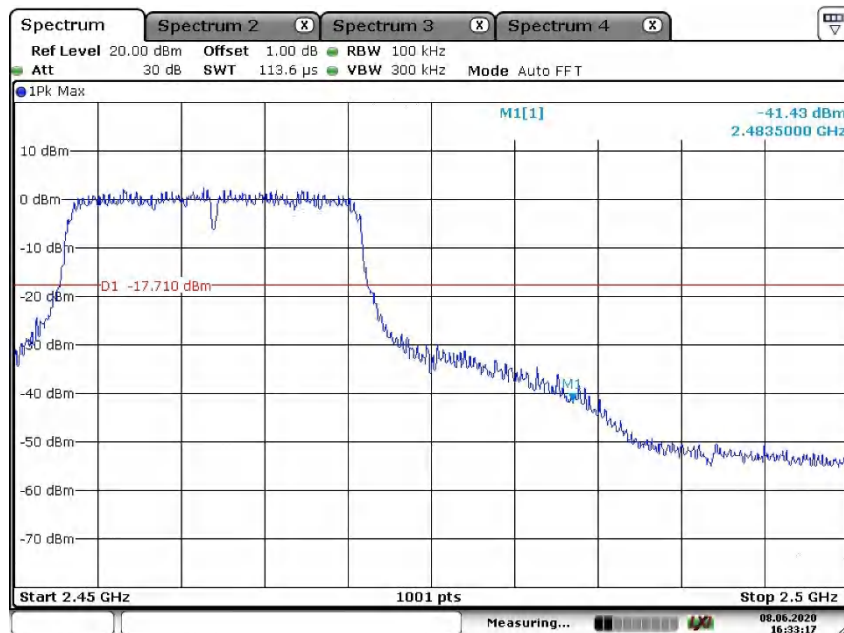


Wi-Fi 802.11 n(HT20) mode, Band Edge
Low Channel



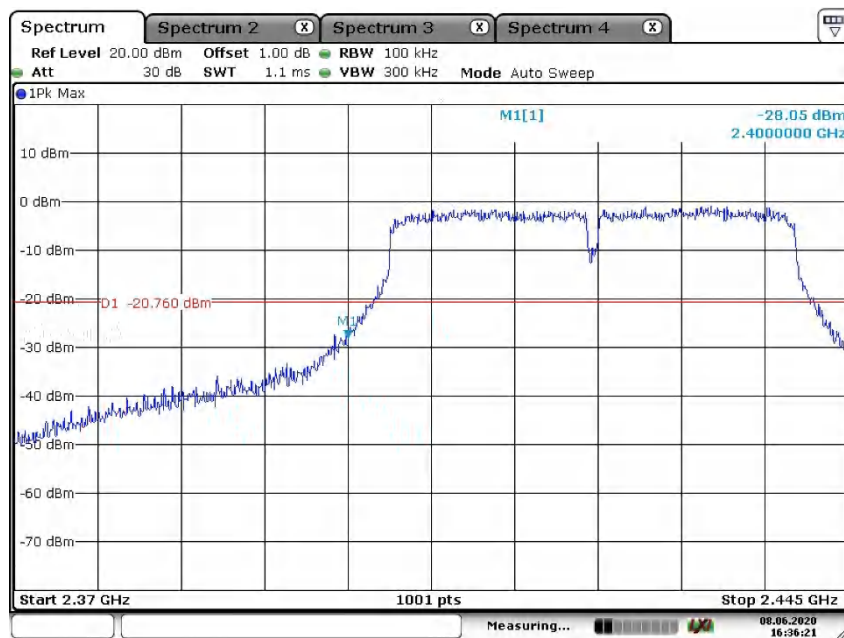
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High Channel



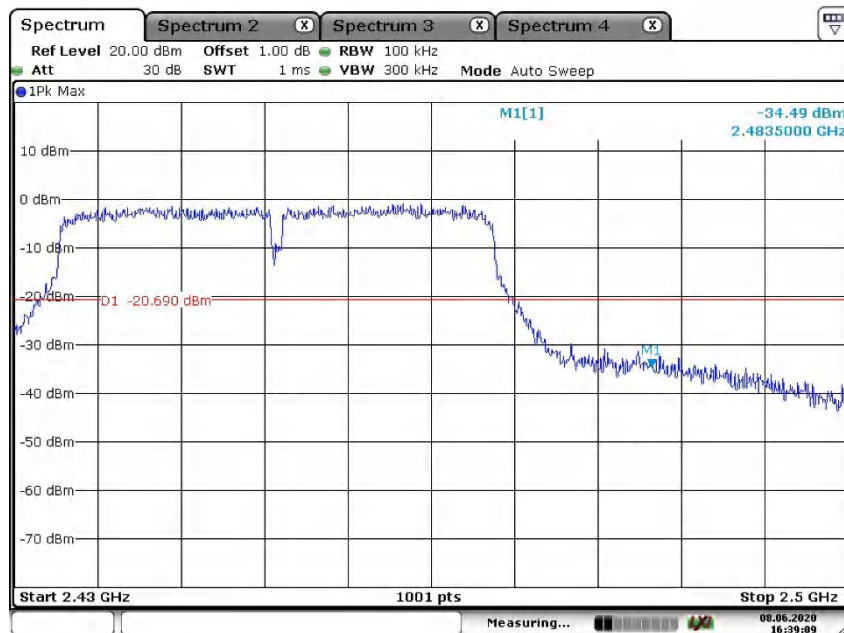
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Wi-Fi 802.11 n(HT40) mode, Band Edge
Low Channel



Date: 8.JUN.2020 16:36:22

High Channel



Date: 8.JUN.2020 16:39:10

Appendix C: Test Results of Radiated Testing

APPENDIX C: TEST RESULTS OF RADIATED TESTING	1
APPENDIX C.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	2
<i>Bluetooth Low Energy</i>	<i>2</i>
<i>Wi-Fi 802.11 b mode, 1 Mbps</i>	<i>12</i>
<i>Wi-Fi 802.11 g mode, 6Mbps</i>	<i>22</i>
<i>Wi-Fi 802.11 n(HT20) mode, MCS0</i>	<i>28</i>
<i>Wi-Fi 802.11 n(HT40) mode, MCS0</i>	<i>34</i>
APPENDIX C.2: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	40
<i>Bluetooth Low Energy</i>	<i>40</i>
<i>Wi-Fi 802.11 b mode, 1 Mbps</i>	<i>44</i>
<i>Wi-Fi 802.11 g mode, 6 Mbps</i>	<i>48</i>
<i>Wi-Fi 802.11 n(HT20) mode, MCS0</i>	<i>52</i>
<i>Wi-Fi 802.11 n(HT40) mode, MCS0</i>	<i>56</i>
APPENDIX C.3: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	60

Note 1: Testing was carried out within frequency range 9 kHz 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.

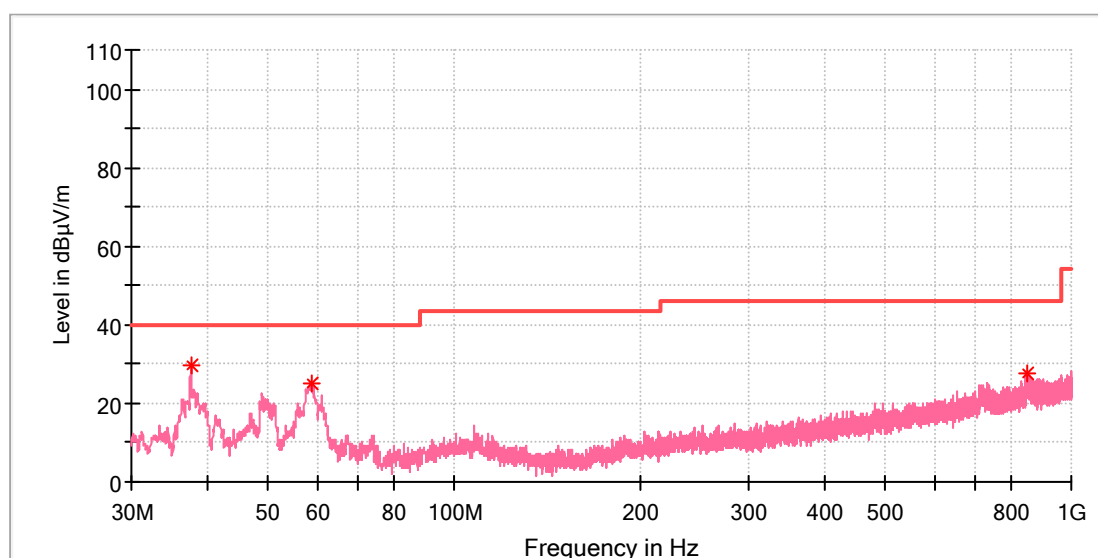
Appendix C.1: Test Results of Radiated Spurious Emissions

Bluetooth Low Energy

30MHz - 1GHz

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

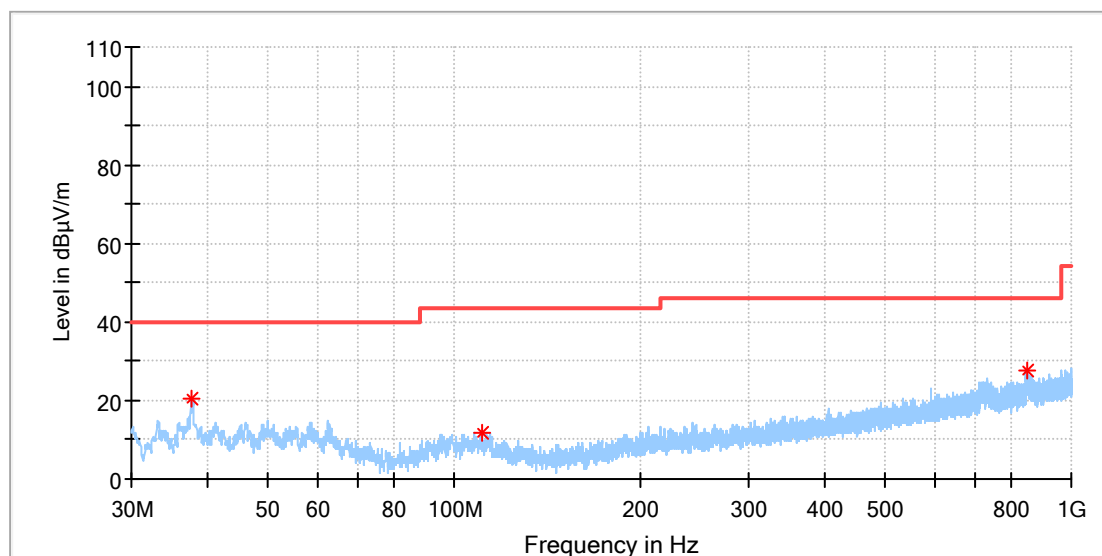


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	29.46	---	40.00	10.54	100.0	V	344.0	-21.3
58.615000	25.11	---	40.00	14.89	100.0	V	0.0	-19.1
845.188000	27.50	---	46.00	18.50	100.0	V	36.0	-6.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

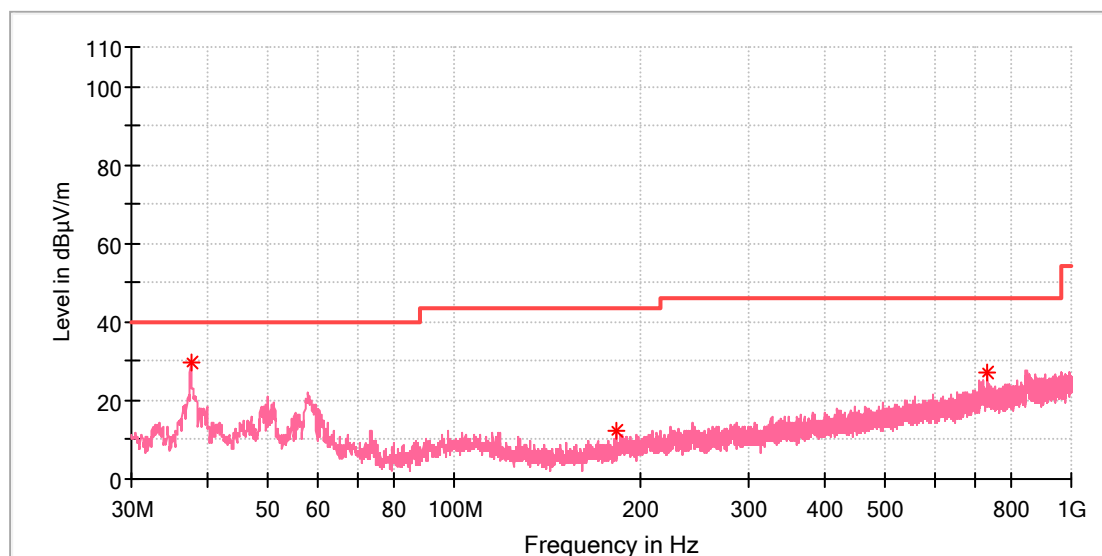


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	20.65	---	40.00	19.35	100.0	H	0.0	-21.3
110.801000	11.72	---	43.50	31.78	100.0	H	256.0	-19.5
845.964000	27.69	---	46.00	18.31	100.0	H	0.0	-6.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

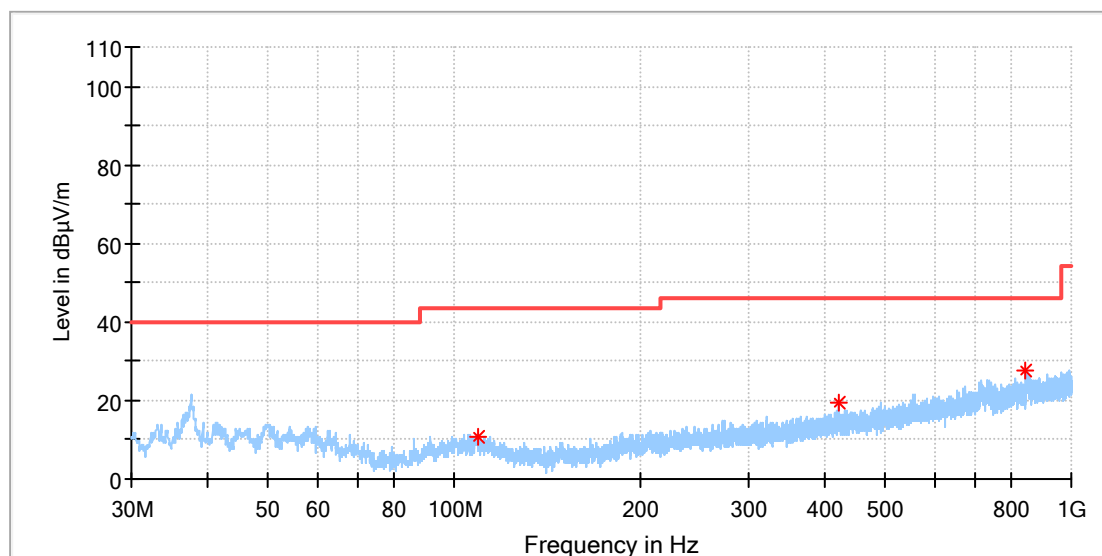


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	29.88	---	40.00	10.12	100.0	V	261.0	-21.3
183.260000	12.07	---	43.50	31.43	100.0	V	6.0	-20.5
729.418500	26.99	---	46.00	19.01	100.0	V	138.0	-7.9

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



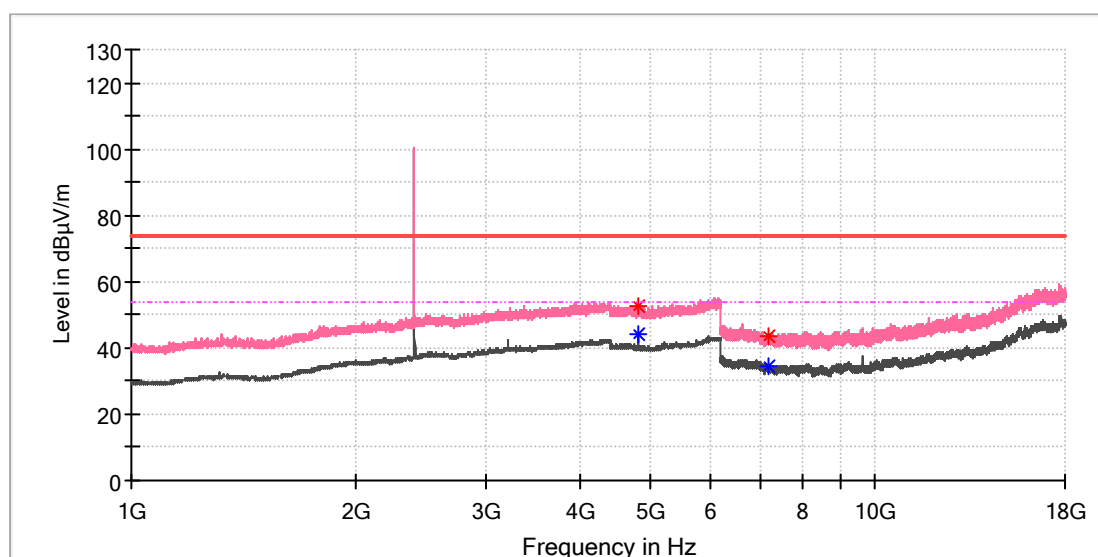
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
109.346000	10.75	---	43.50	32.75	100.0	H	51.0	-19.4
419.406500	19.35	---	46.00	26.65	100.0	H	197.0	-13.7
844.848500	27.85	---	46.00	18.15	100.0	H	60.0	-6.0

1GHz - 18GHz

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model: LA02301
Test Mode: BLE_TX_Low CH
Test Voltage:: DC 5V
Remark: Temp 24 Humi:45%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

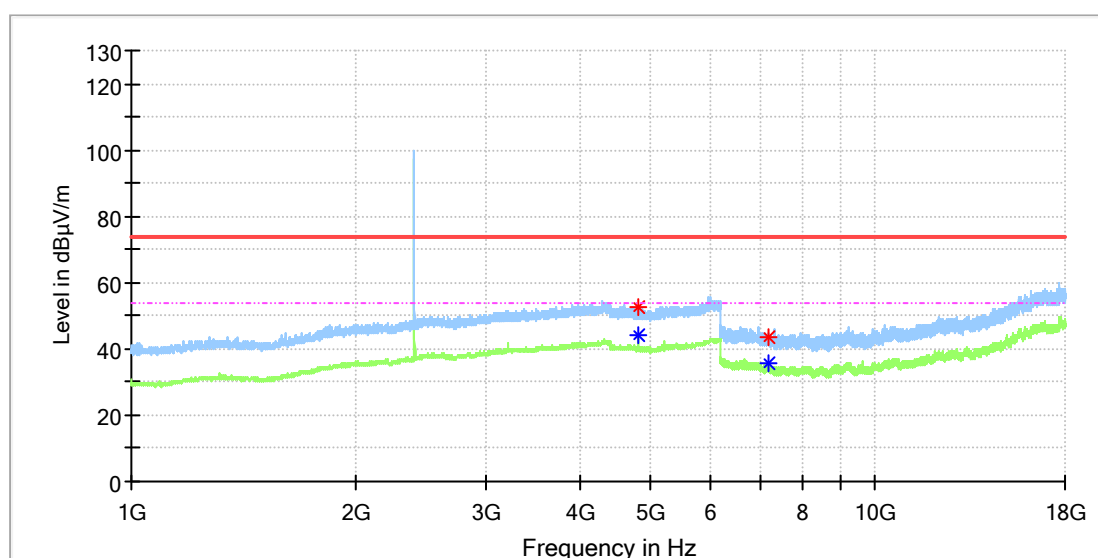


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	52.64	---	74.00	21.36	100.0	V	349.0	13.6
4803.500000	---	43.99	54.00	10.01	100.0	V	349.0	13.6
7203.983333	43.25	---	74.00	30.75	100.0	V	37.0	8.8
7206.441667	---	34.68	54.00	19.32	100.0	V	262.0	8.8

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

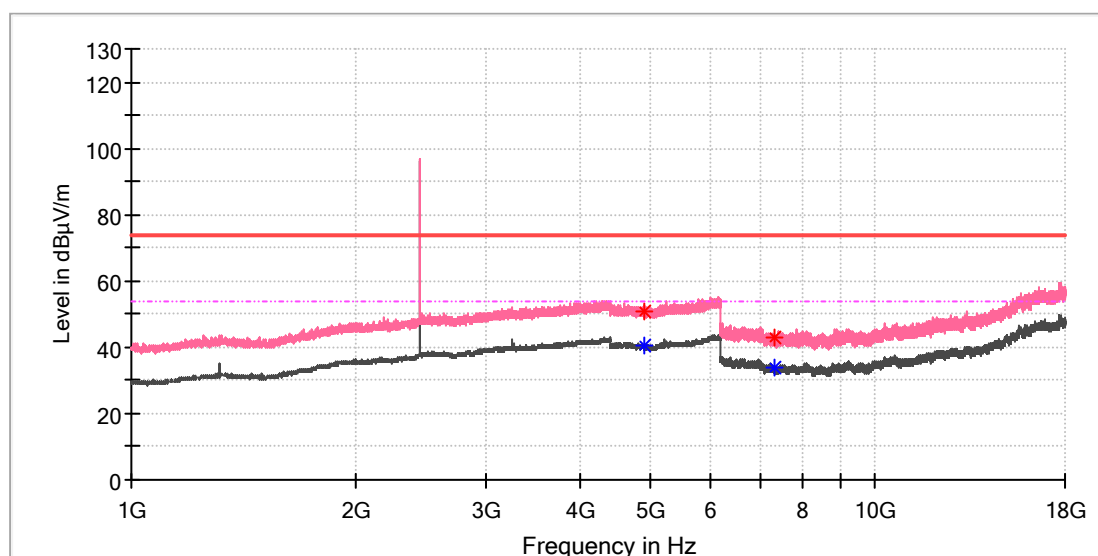


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	52.80	---	74.00	21.20	100.0	H	225.0	13.6
4804.000000	---	44.30	54.00	9.70	100.0	H	0.0	13.6
7205.950000	---	35.47	54.00	18.53	100.0	H	276.0	8.8
7205.950000	43.72	---	74.00	30.28	100.0	H	276.0	8.8

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

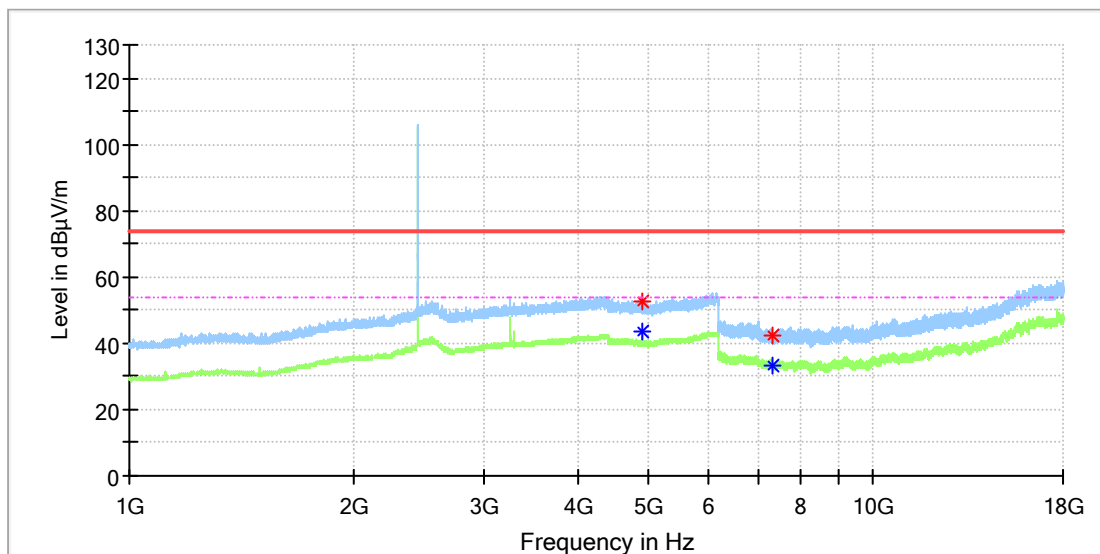


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4888.000000	---	40.40	54.00	13.60	100.0	V	233.0	13.3
4888.500000	50.96	---	74.00	23.04	100.0	V	272.0	13.3
7334.766667	---	33.57	54.00	20.43	100.0	V	277.0	8.1
7334.766667	42.81	---	74.00	31.19	100.0	V	277.0	8.1

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model: LA02301
Test Mode: BLE_TX_Mid CH
Test Voltage:: DC 5V
Remark: Temp 24 Humi:45%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

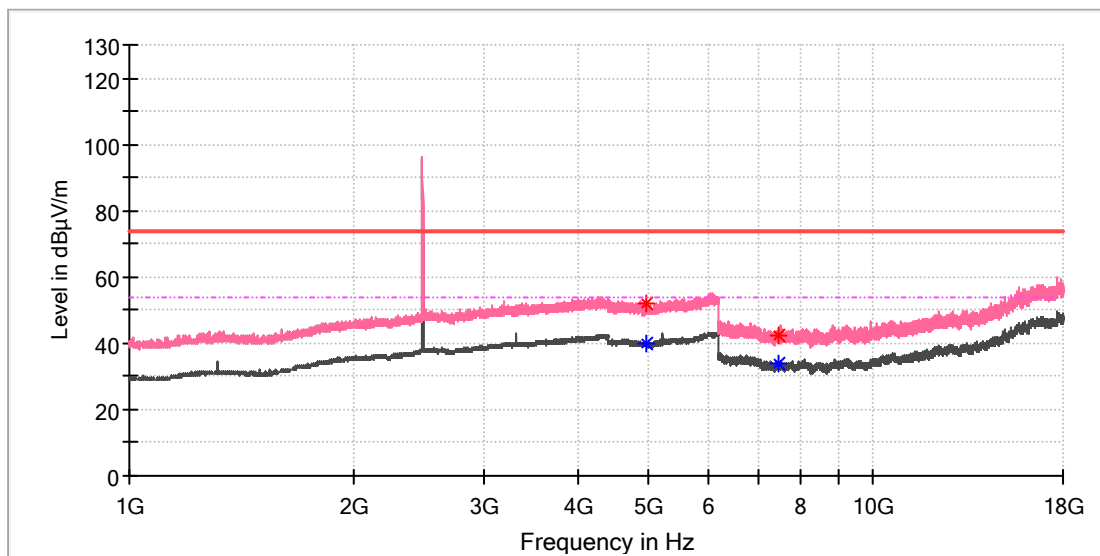


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4887.500000	52.32	---	74.00	21.68	100.0	H	148.0	13.3
4888.000000	---	43.27	54.00	10.73	100.0	H	106.0	13.3
7330.341667	42.46	---	74.00	31.54	100.0	H	227.0	8.1
7331.325000	---	33.09	54.00	20.91	100.0	H	193.0	8.1

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_TX_High CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

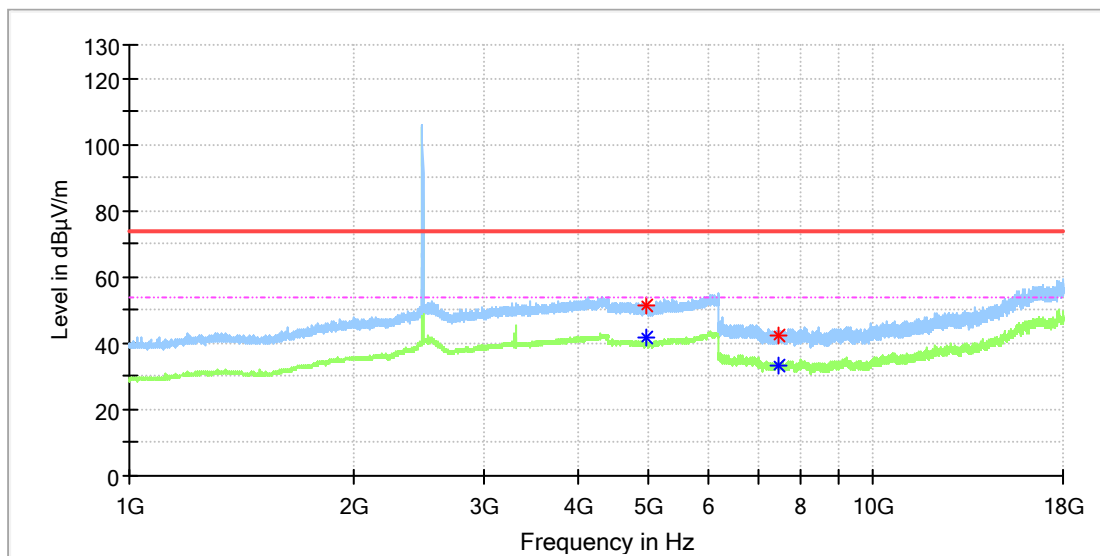


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4956.000000	---	40.02	54.00	13.98	100.0	V	0.0	13.2
4956.500000	52.07	---	74.00	21.93	100.0	V	288.0	13.2
7437.525000	---	33.73	54.00	20.27	100.0	V	36.0	8.4
7439.983333	42.21	---	74.00	31.79	100.0	V	0.0	8.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_TX_High CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

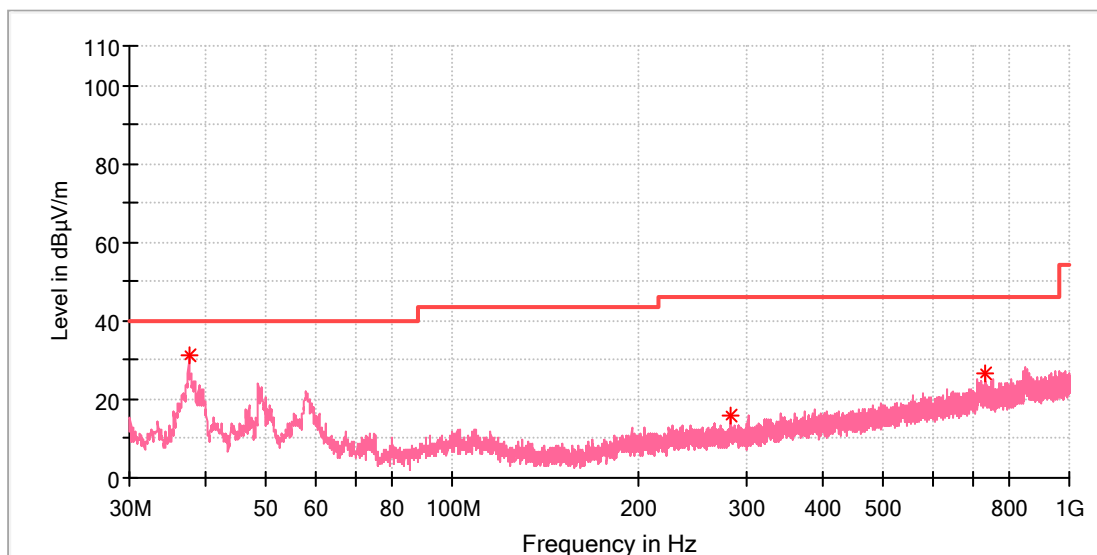
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	51.62	---	74.00	22.38	100.0	H	8.0	13.2
4960.000000	---	41.98	54.00	12.02	100.0	H	8.0	13.2
7438.508333	---	33.38	54.00	20.62	100.0	H	142.0	8.4
7439.491667	42.38	---	74.00	31.62	100.0	H	0.0	8.4

Wi-Fi 802.11 b mode, 1 Mbps

30MHz - 1GHz

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

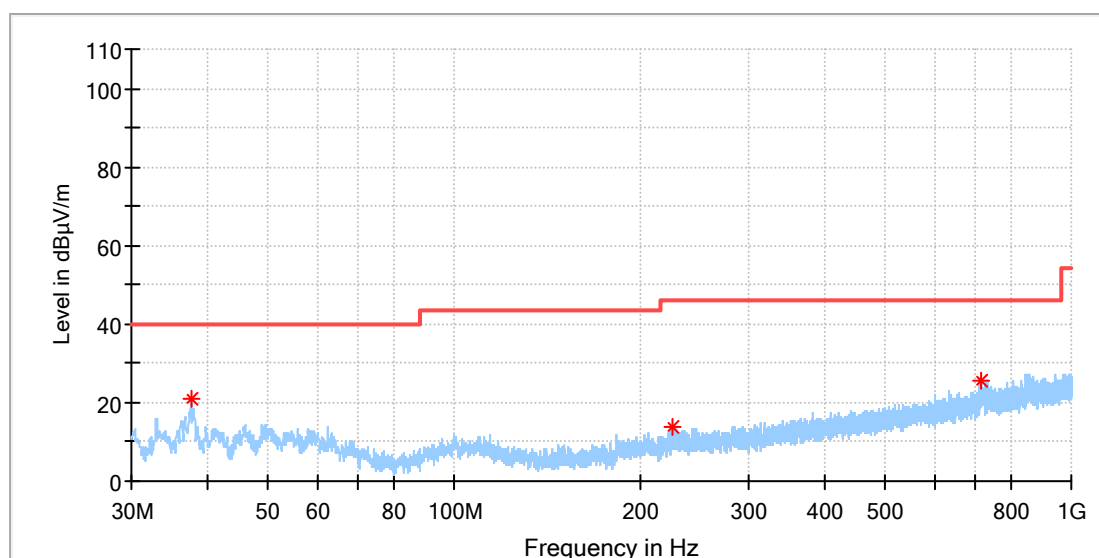


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.517500	30.95	---	40.00	9.05	100.0	V	121.0	-21.2
282.442500	15.61	---	46.00	30.39	100.0	V	169.0	-17.0
729.224500	26.48	---	46.00	19.52	100.0	V	242.0	-7.9

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

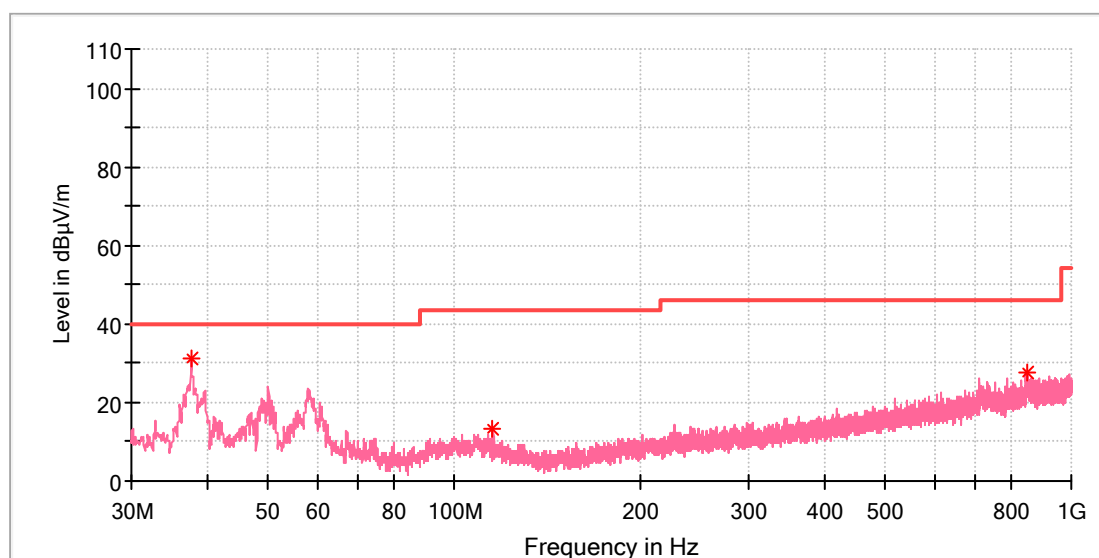


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	20.98	---	40.00	19.02	100.0	H	321.0	-21.3
226.037000	13.68	---	46.00	32.32	100.0	H	160.0	-18.6
715.838500	25.72	---	46.00	20.28	100.0	H	312.0	-8.2

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

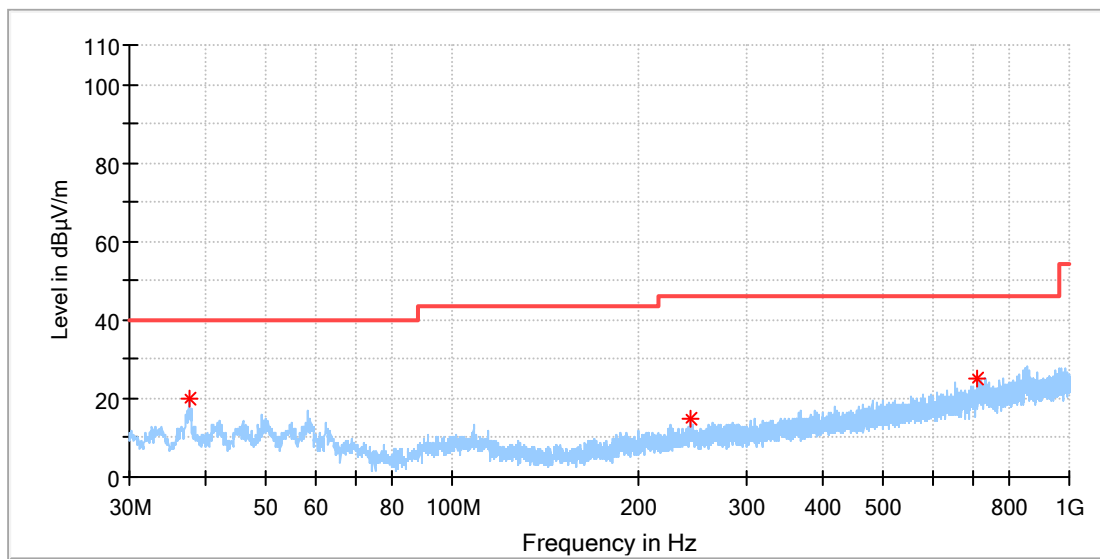


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	31.29	---	40.00	8.71	100.0	V	66.0	-21.3
115.602500	13.48	---	43.50	30.02	100.0	V	198.0	-20.2
845.188000	27.81	---	46.00	18.19	100.0	V	208.0	-6.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

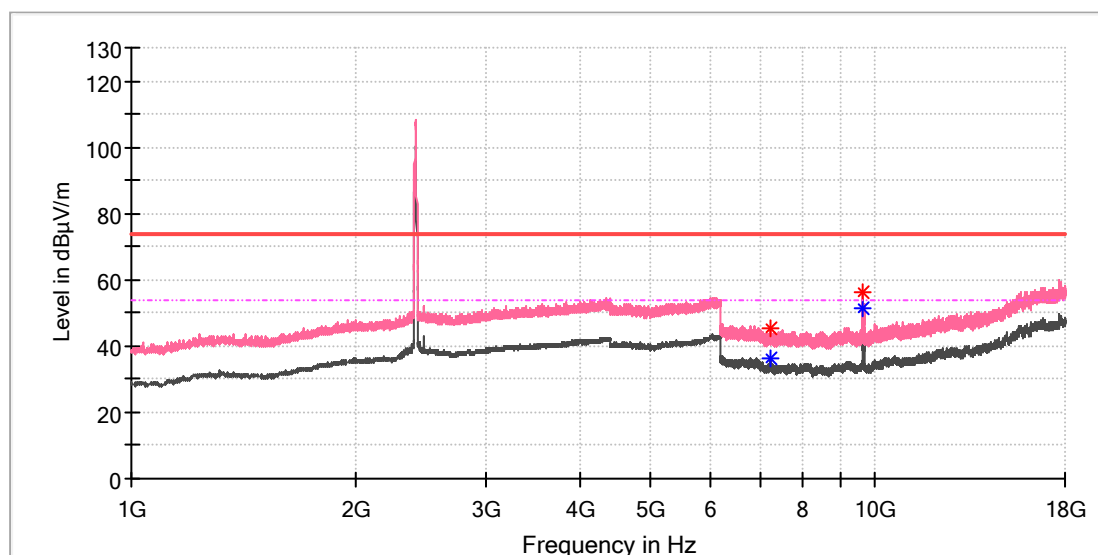


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	19.92	---	40.00	20.08	100.0	H	158.0	-21.3
243.642500	15.09	---	46.00	30.91	100.0	H	209.0	-17.9
709.776000	25.05	---	46.00	20.95	100.0	H	256.0	-8.3

1GHz - 18GHz**EUT Information**

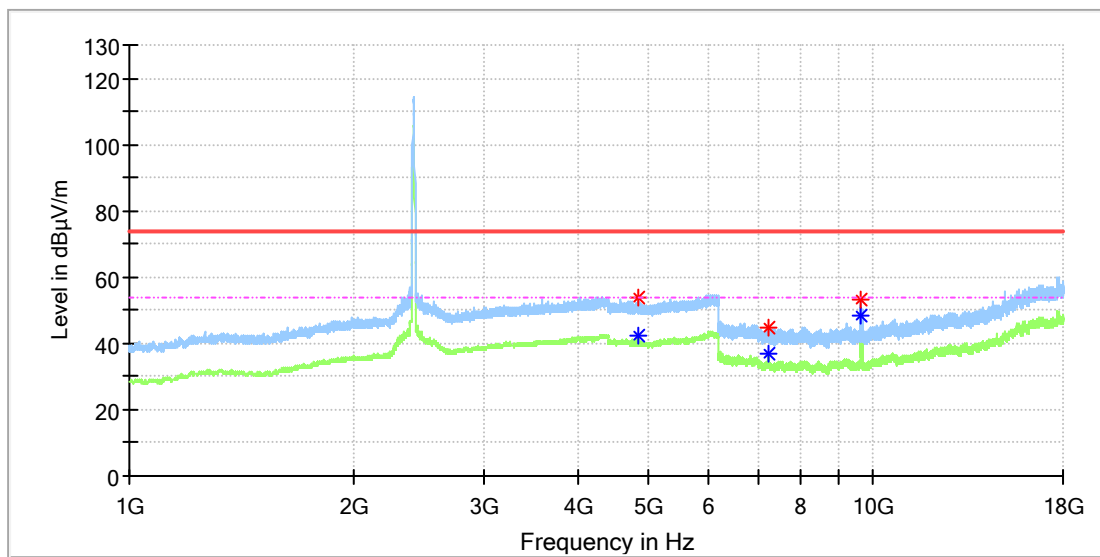
EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11b_Low CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.958333	---	36.01	54.00	17.99	100.0	V	151.0	8.6
7237.416667	45.45	---	74.00	28.55	100.0	V	179.0	8.6
9647.566667	56.25	---	74.00	17.75	100.0	V	0.0	10.4
9648.058333	---	50.58	54.00	3.42	100.0	V	1.0	10.4

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11b_Low CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

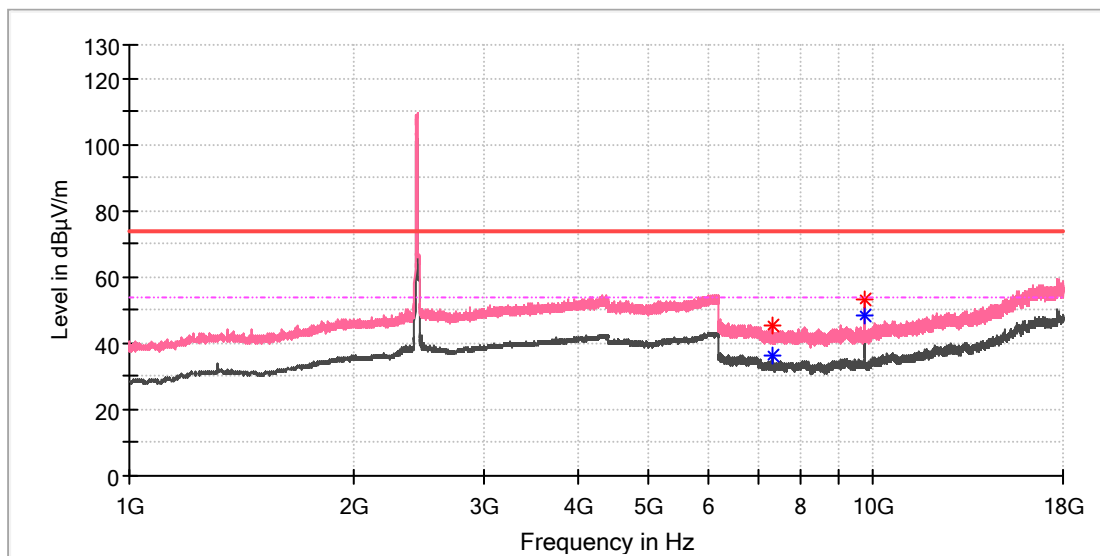


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.000000	---	42.39	54.00	11.61	100.0	H	325.0	13.5
4823.500000	53.85	---	74.00	20.15	100.0	H	334.0	13.5
7236.433333	45.00	---	74.00	29.00	100.0	H	116.0	8.6
7239.875000	---	36.70	54.00	17.30	100.0	H	116.0	8.6
9647.566667	53.05	---	74.00	20.95	100.0	H	316.0	10.4
9648.058333	---	48.10	54.00	5.90	100.0	H	0.0	10.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI 2.4G_11b_Mid CH
 Test Voltage:: DC 5V
 Remark: Temp 23 Humi:42%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

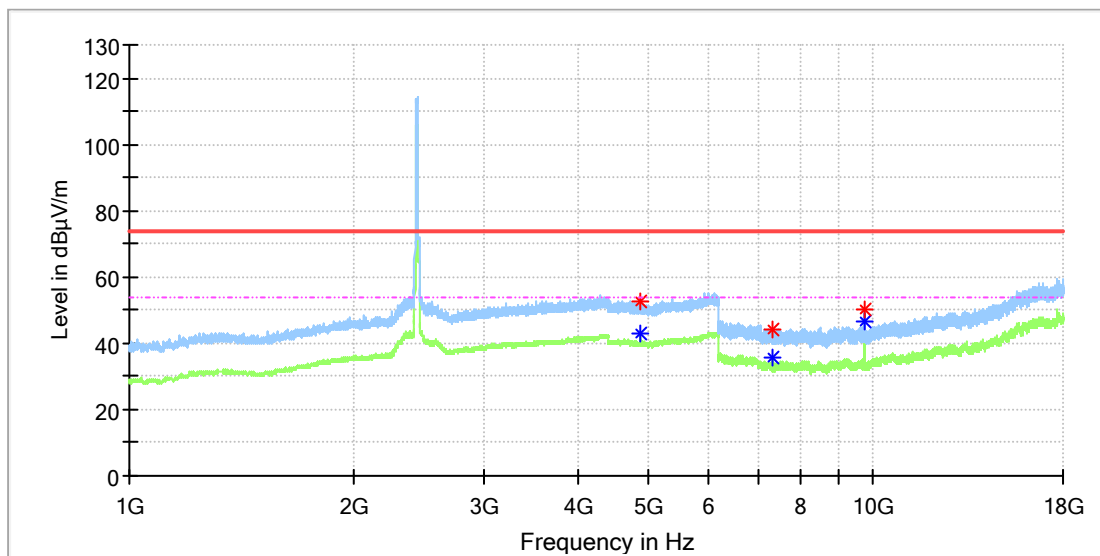


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	45.13	---	74.00	28.87	100.0	V	207.0	8.2
7313.133333	---	36.37	54.00	17.63	100.0	V	60.0	8.2
9747.375000	53.16	---	74.00	20.84	100.0	V	60.0	10.4
9747.866667	---	48.18	54.00	5.82	100.0	V	60.0	10.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI 2.4G_11b_Mid CH
 Test Voltage:: DC 5V
 Remark: Temp 23 Humi:42%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

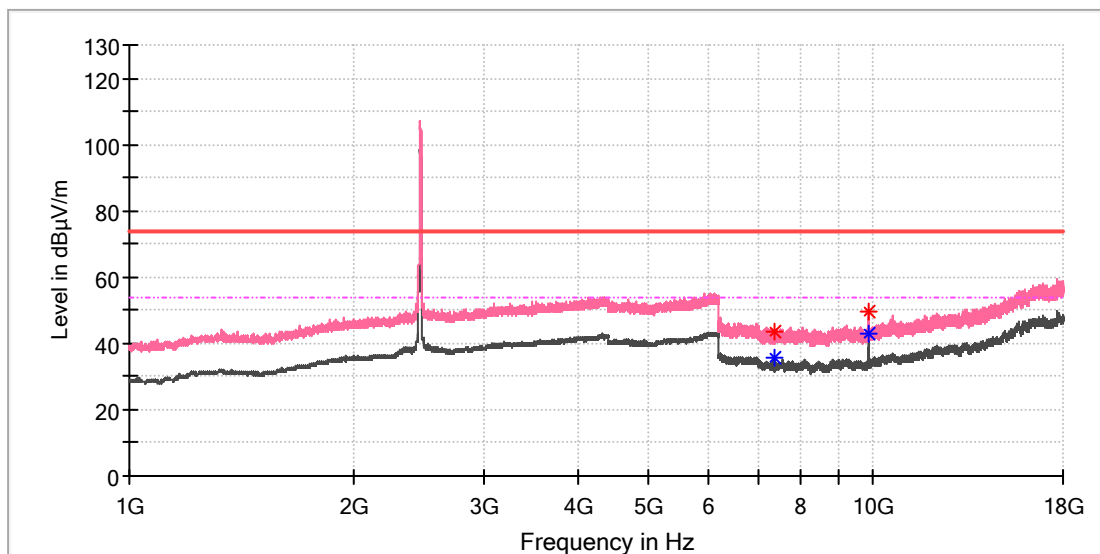


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	52.44	---	74.00	21.56	100.0	H	265.0	13.4
4874.000000	---	42.73	54.00	11.27	100.0	H	328.0	13.4
7304.283333	44.40	---	74.00	29.60	100.0	H	175.0	8.3
7309.200000	---	35.52	54.00	18.48	100.0	H	100.0	8.2
9747.866667	---	46.50	54.00	7.50	100.0	H	315.0	10.4
9747.866667	50.41	---	74.00	23.59	100.0	H	315.0	10.4

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11b_High CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

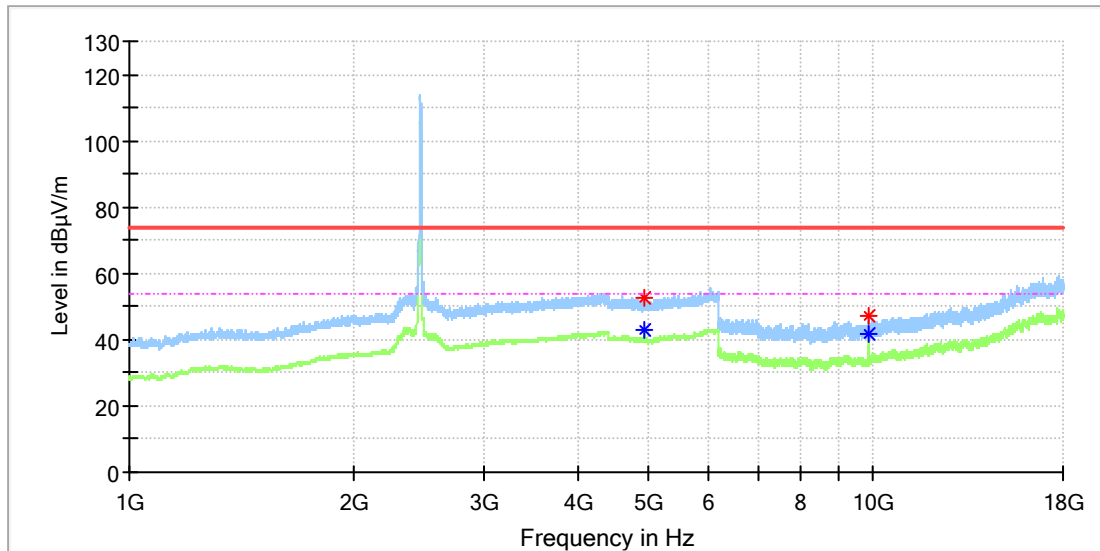


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7386.883333	---	35.40	54.00	18.60	100.0	V	275.0	8.2
7387.866667	43.82	---	74.00	30.18	100.0	V	275.0	8.2
9847.675000	---	42.94	54.00	11.06	100.0	V	219.0	10.6
9847.675000	49.36	---	74.00	24.64	100.0	V	219.0	10.6

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11b_High CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

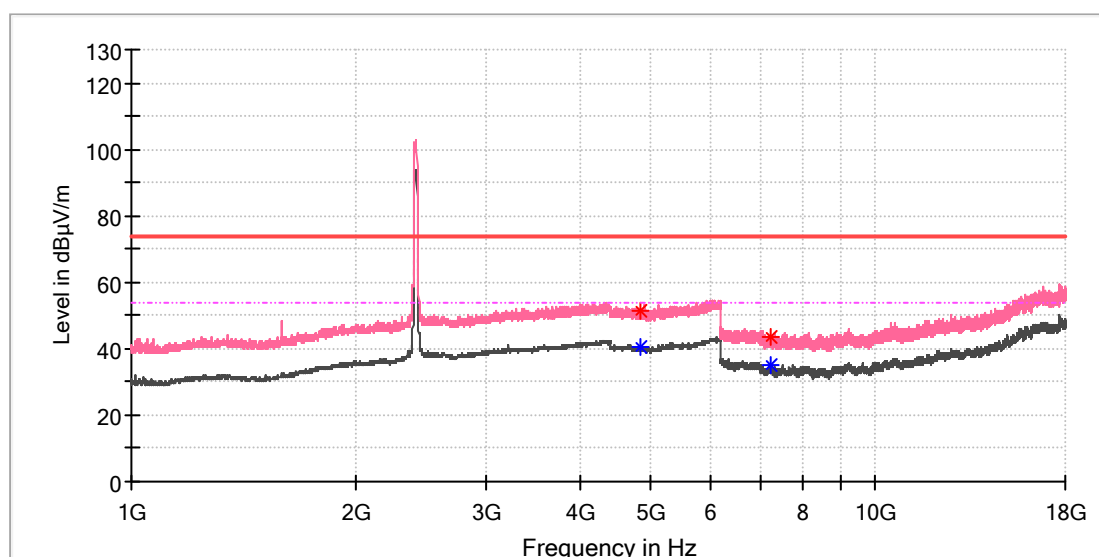


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.500000	---	42.81	54.00	11.19	100.0	H	297.0	13.3
4925.000000	52.65	---	74.00	21.35	100.0	H	297.0	13.3
9848.166667	---	41.82	54.00	12.19	100.0	H	225.0	10.6
9848.166667	46.94	---	74.00	27.06	100.0	H	225.0	10.6

Wi-Fi 802.11 g mode, 6Mbps
1GHz - 18GHz
EUT Information

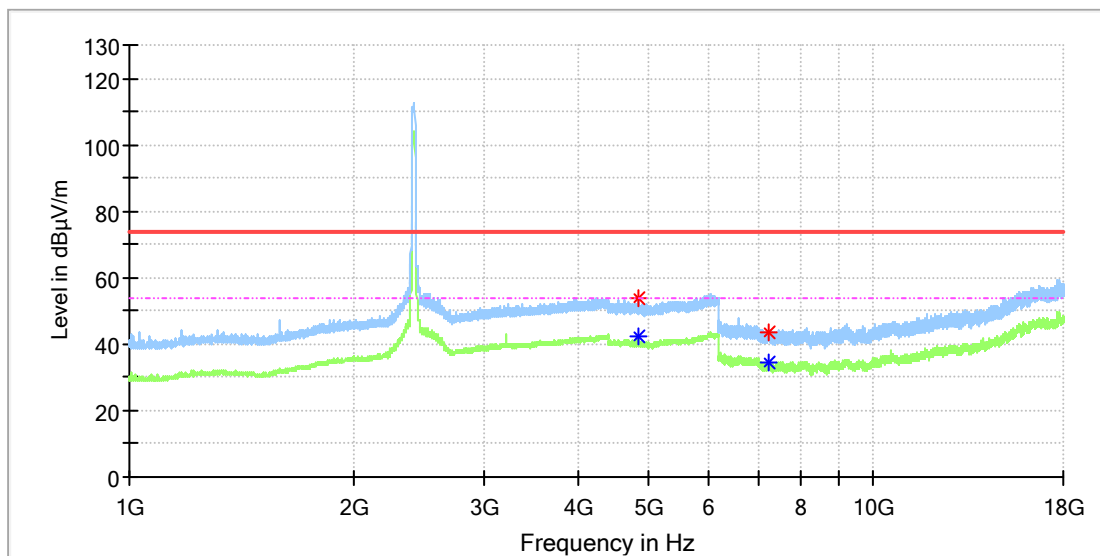
EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4820.000000	---	40.44	54.00	13.56	100.0	V	264.0	13.5
4820.000000	51.59	---	74.00	22.41	100.0	V	264.0	13.5
7230.533333	---	34.85	54.00	19.15	100.0	V	140.0	8.6
7233.483333	43.30	---	74.00	30.70	100.0	V	52.0	8.6

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

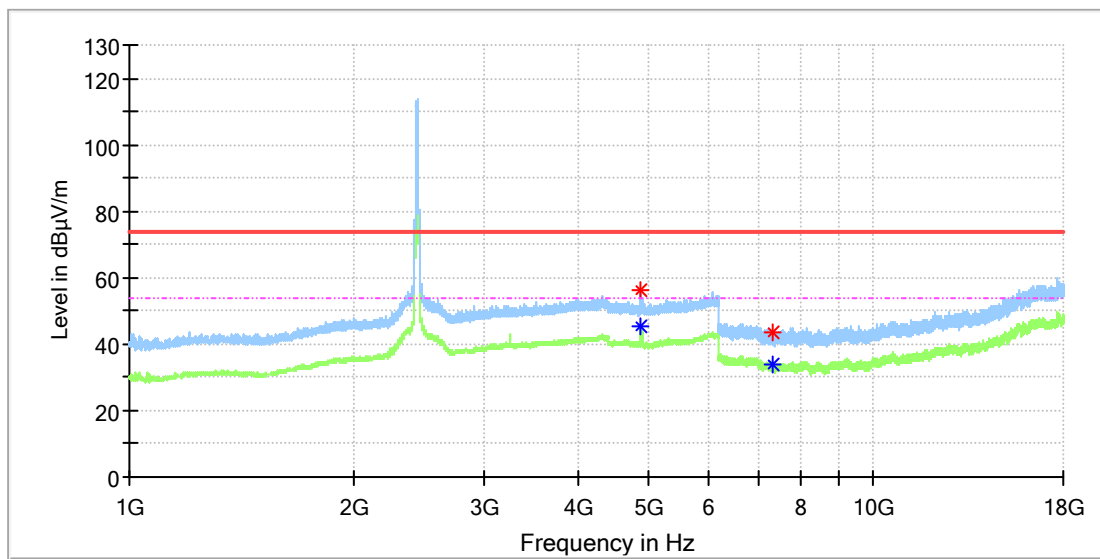


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	53.57	---	74.00	20.43	100.0	H	275.0	13.5
4825.500000	---	42.52	54.00	11.48	100.0	H	275.0	13.5
7236.433333	43.67	---	74.00	30.33	100.0	H	225.0	8.6
7238.400000	---	34.26	54.00	19.74	100.0	H	82.0	8.6

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

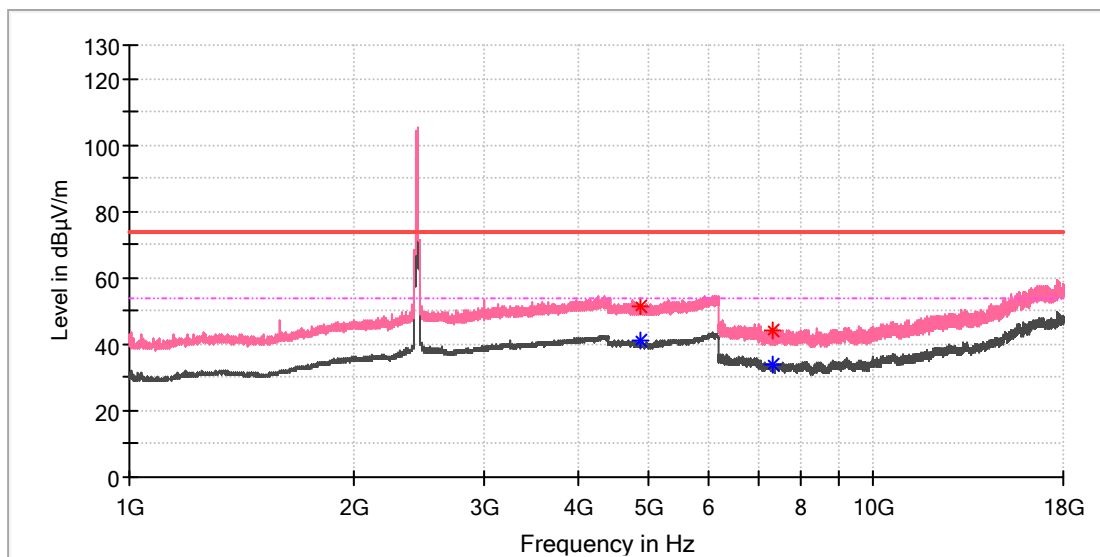


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.500000	---	45.44	54.00	8.56	100.0	H	275.0	13.4
4876.500000	55.99	---	74.00	18.01	100.0	H	275.0	13.4
7314.116667	---	33.93	54.00	20.07	100.0	H	100.0	8.2
7315.591667	43.35	---	74.00	30.65	100.0	H	153.0	8.2

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

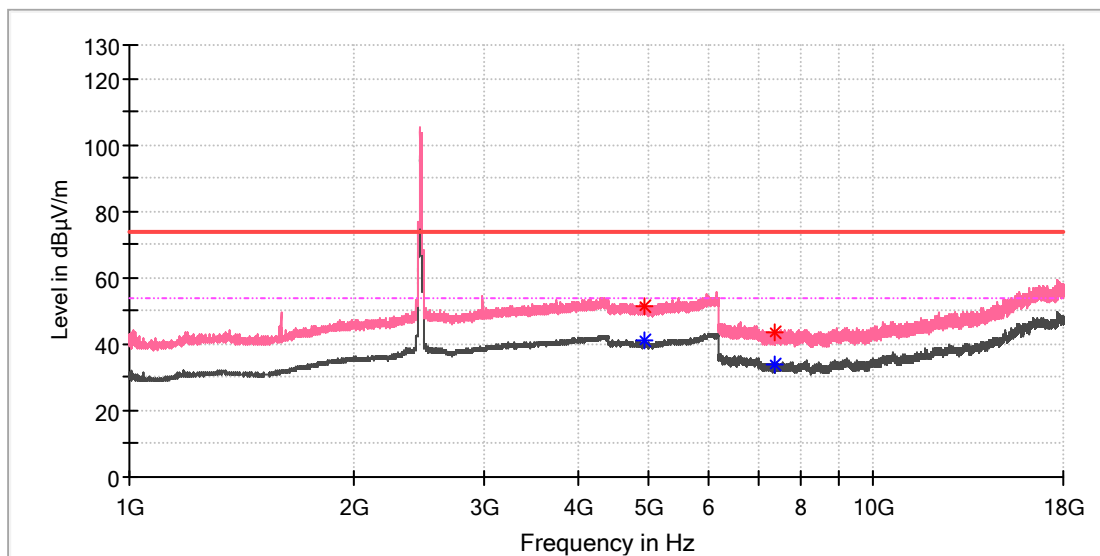


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4875.000000	51.55	---	74.00	22.45	100.0	V	339.0	13.4
4877.000000	---	41.00	54.00	13.00	100.0	V	187.0	13.4
7309.200000	---	33.72	54.00	20.28	100.0	V	137.0	8.2
7312.150000	44.09	---	74.00	29.91	100.0	V	27.0	8.2

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

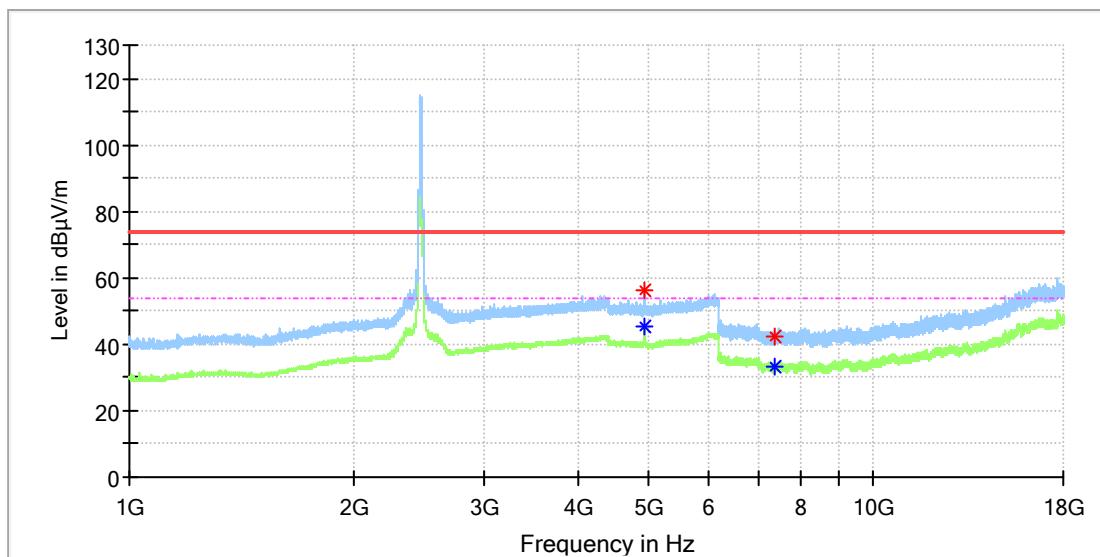


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4921.000000	---	40.84	54.00	13.16	100.0	V	333.0	13.3
4922.500000	51.50	---	74.00	22.51	100.0	V	263.0	13.3
7382.458333	---	33.59	54.00	20.41	100.0	V	241.0	8.2
7382.458333	43.43	---	74.00	30.57	100.0	V	241.0	8.2

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

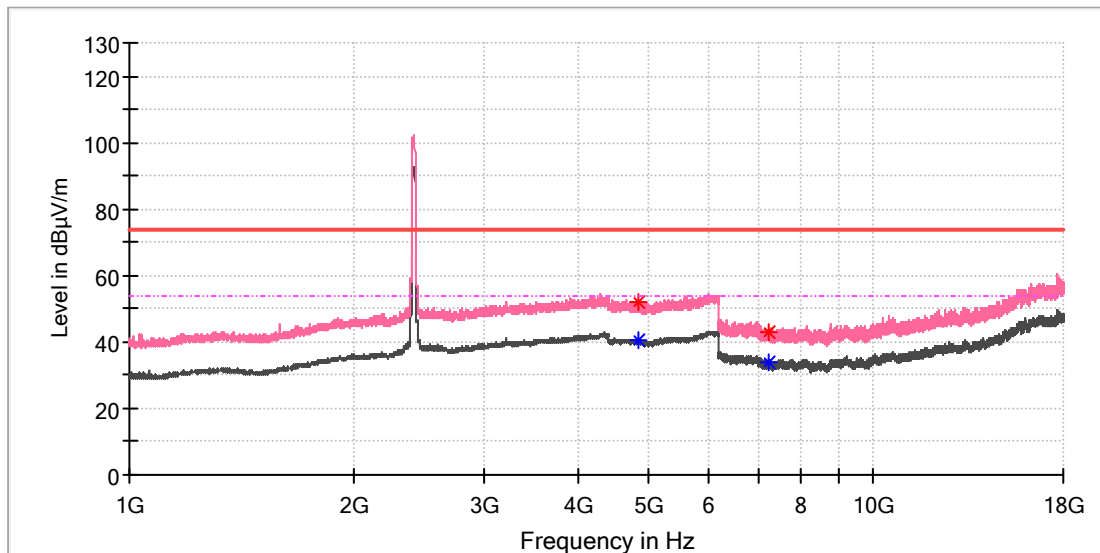


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4921.000000	56.38	---	74.00	17.62	100.0	H	266.0	13.3
4925.000000	---	45.35	54.00	8.65	100.0	H	275.0	13.3
7382.950000	---	33.53	54.00	20.47	100.0	H	296.0	8.2
7382.950000	42.42	---	74.00	31.58	100.0	H	296.0	8.2

Wi-Fi 802.11 n(HT20) mode, MCS0
1GHz - 18GHz
EUT Information

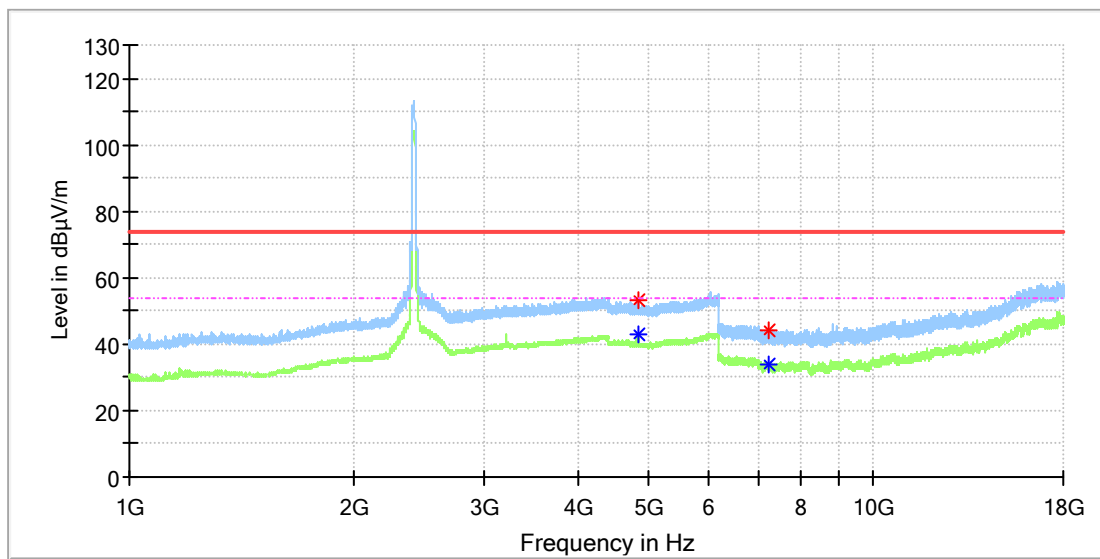
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.500000	52.09	---	74.00	21.91	100.0	V	343.0	13.5
4825.000000	---	40.30	54.00	13.70	100.0	V	78.0	13.5
7235.450000	42.75	---	74.00	31.25	100.0	V	67.0	8.6
7237.416667	---	33.78	54.00	20.22	100.0	V	119.0	8.6

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

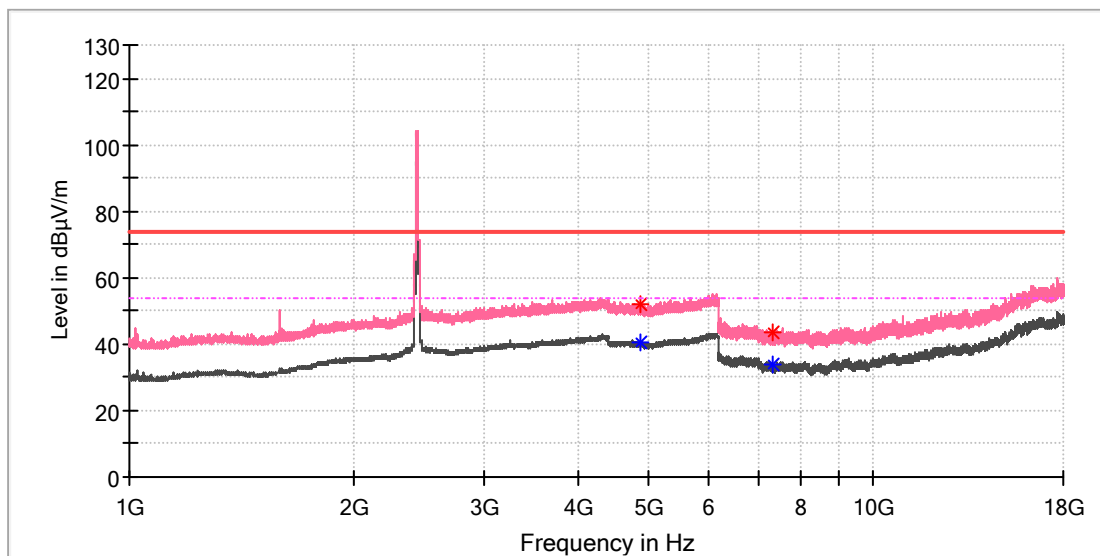


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4820.500000	---	42.93	54.00	11.07	100.0	H	155.0	13.5
4821.500000	53.37	---	74.00	20.63	100.0	H	278.0	13.5
7238.891667	43.84	---	74.00	30.16	100.0	H	310.0	8.6
7239.383333	---	33.85	54.00	20.15	100.0	H	22.0	8.6

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

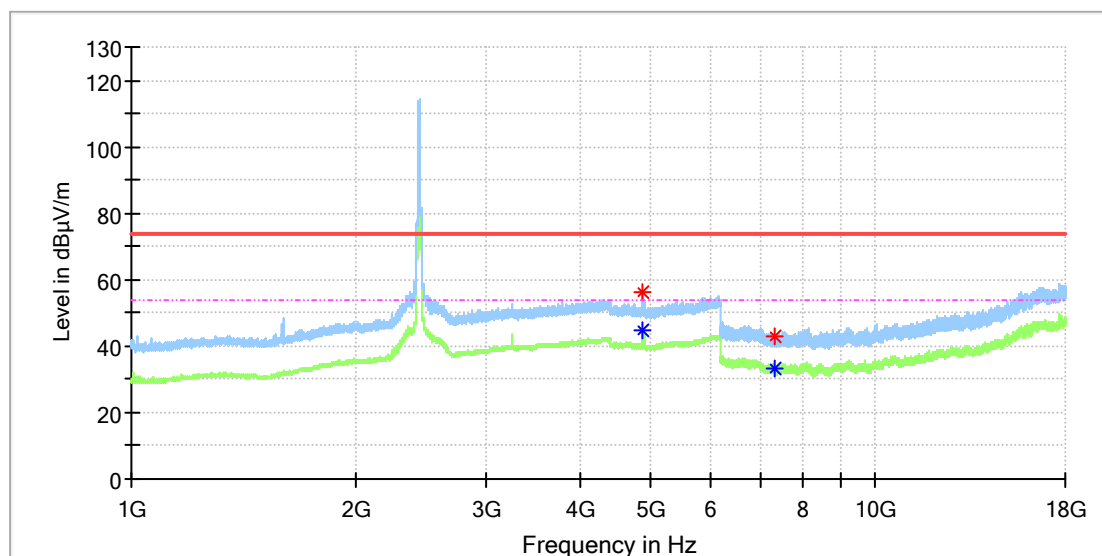


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.500000	---	40.36	54.00	13.64	100.0	V	252.0	13.4
4874.000000	51.72	---	74.00	22.28	100.0	V	338.0	13.4
7311.166667	43.36	---	74.00	30.64	100.0	V	190.0	8.2
7314.116667	---	33.75	54.00	20.25	100.0	V	260.0	8.2

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

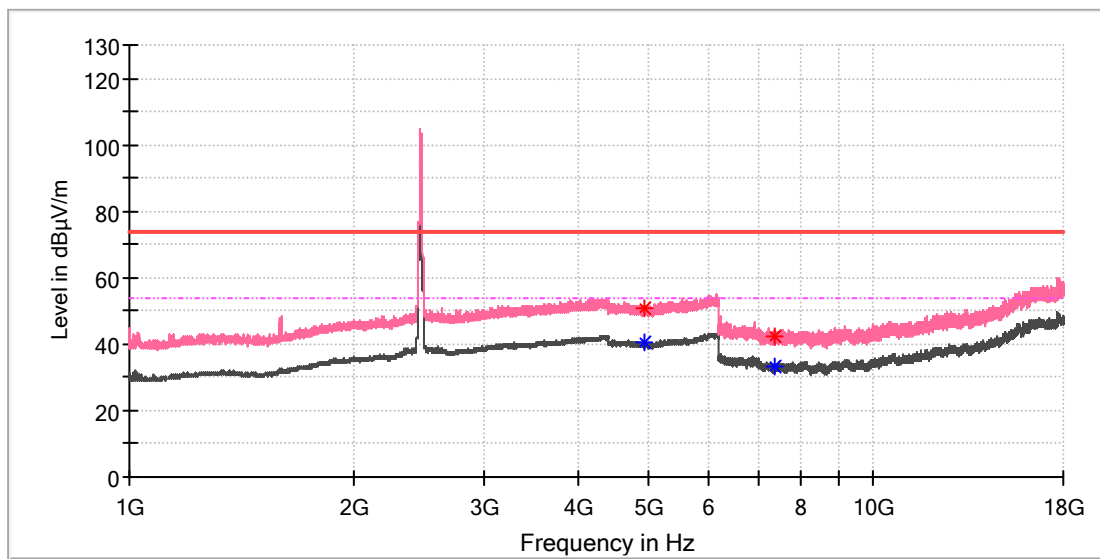


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4876.000000	56.32	---	74.00	17.68	100.0	H	272.0	13.4
4877.000000	---	45.04	54.00	8.96	100.0	H	272.0	13.4
7312.641667	---	33.20	54.00	20.80	100.0	H	276.0	8.2
7316.575000	42.64	---	74.00	31.36	100.0	H	294.0	8.2

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

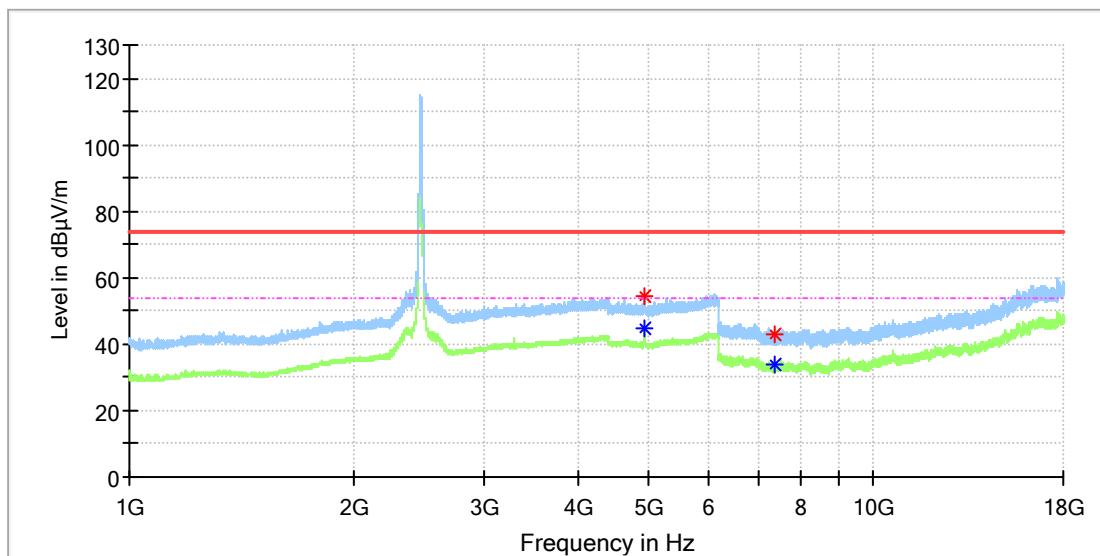


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4925.000000	50.89	---	74.00	23.11	100.0	V	107.0	13.3
4927.500000	---	40.39	54.00	13.61	100.0	V	179.0	13.3
7381.966667	42.60	---	74.00	31.40	100.0	V	64.0	8.2
7383.441667	---	33.24	54.00	20.76	100.0	V	229.0	8.2

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

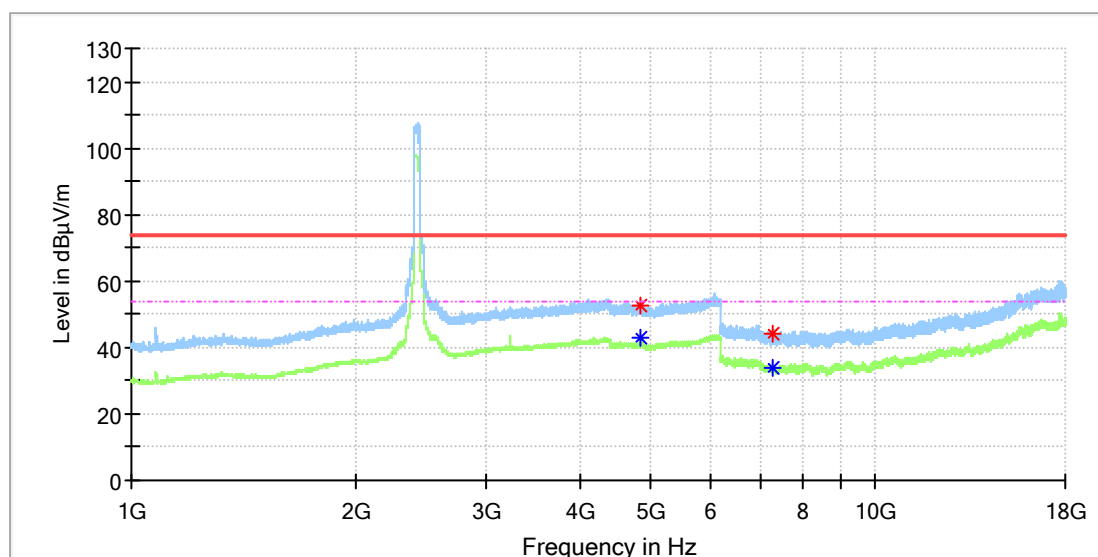


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4920.500000	54.58	---	74.00	19.42	100.0	H	266.0	13.3
4921.500000	---	44.92	54.00	9.08	100.0	H	274.0	13.3
7386.883333	---	33.71	54.00	20.29	100.0	H	224.0	8.2
7386.883333	42.64	---	74.00	31.36	100.0	H	224.0	8.2

Wi-Fi 802.11 n(HT40) mode, MCS0
1GHz - 18GHz
EUT Information

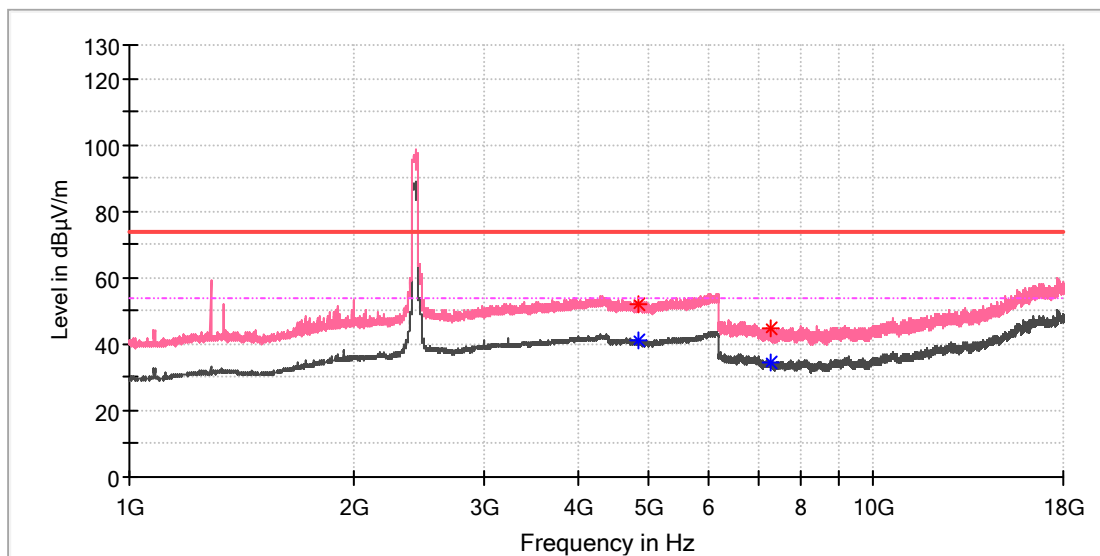
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	Wi-Fi 2.4G 11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4843.000000	52.72	---	74.00	21.28	100.0	H	158.0	13.4
4844.000000	---	42.91	54.00	11.09	100.0	H	158.0	13.4
7266.425000	44.05	---	74.00	29.95	100.0	H	298.0	8.5
7266.425000	---	34.06	54.00	19.94	100.0	H	298.0	8.5

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	Wi-Fi 2.4G 11n40_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

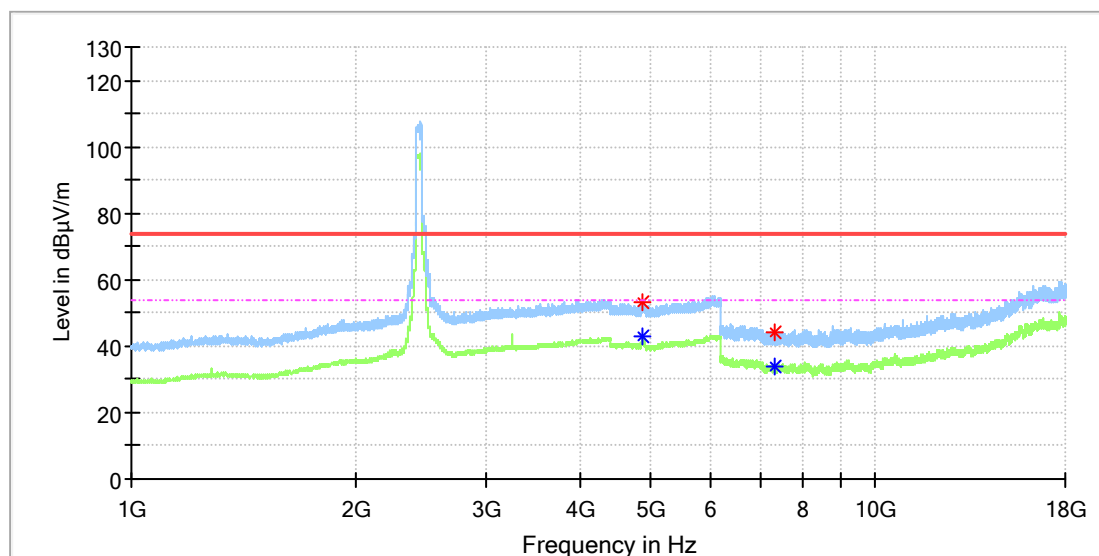


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4843.000000	51.88	---	74.00	22.12	200.0	V	213.0	13.4
4845.500000	---	40.84	54.00	13.16	100.0	V	178.0	13.4
7261.016667	44.84	---	74.00	29.16	100.0	V	97.0	8.5
7266.916667	---	34.45	54.00	19.55	200.0	V	262.0	8.5

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	Wi-Fi 2.4G 11n40_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

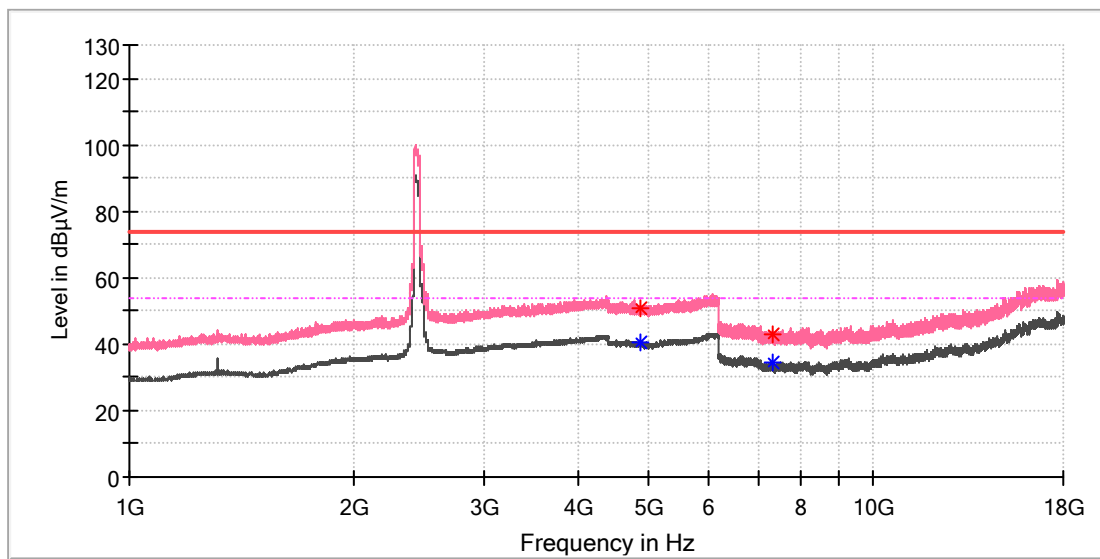


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	---	43.22	54.00	10.78	100.0	H	212.0	13.4
4873.000000	53.41	---	74.00	20.59	100.0	H	212.0	13.4
7311.166667	---	33.70	54.00	20.30	100.0	H	256.0	8.2
7317.558333	44.27	---	74.00	29.73	100.0	H	144.0	8.2

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	Wi-Fi 2.4G 11n40_Mid CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

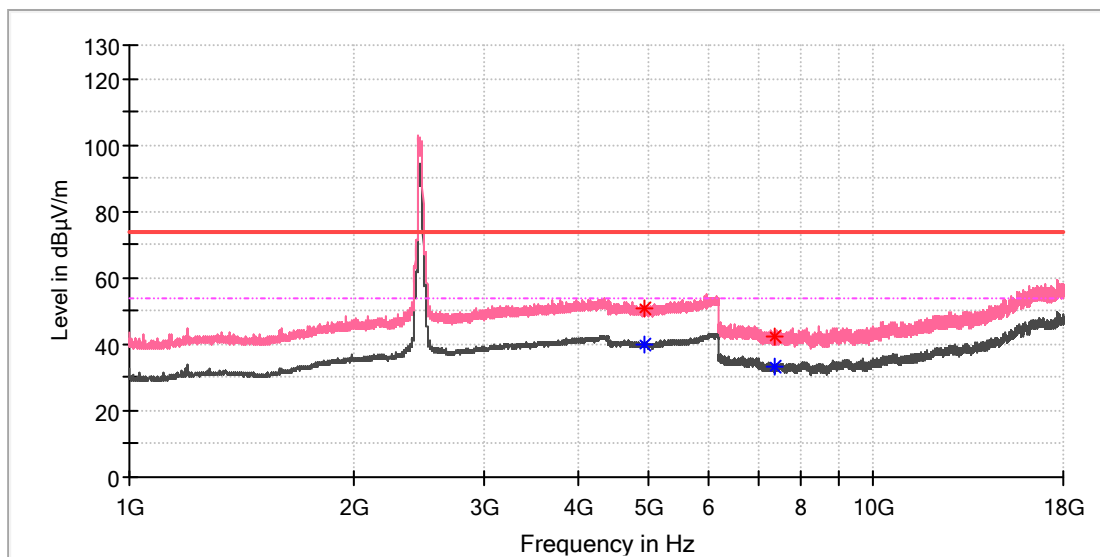


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.000000	51.00	---	74.00	23.00	100.0	V	157.0	13.4
4874.000000	---	40.60	54.00	13.40	100.0	V	308.0	13.4
7311.658333	---	34.18	54.00	19.82	100.0	V	120.0	8.2
7311.658333	42.74	---	74.00	31.26	100.0	V	120.0	8.2

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n40_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

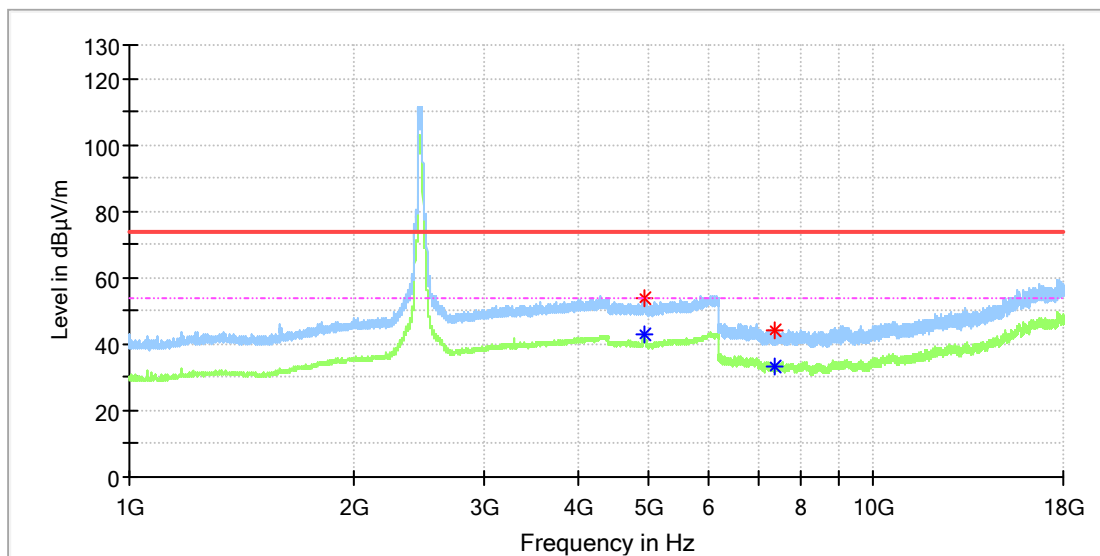


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4921.500000	---	40.07	54.00	13.93	100.0	V	14.0	13.3
4925.500000	50.69	---	74.00	23.31	100.0	V	112.0	13.3
7385.900000	42.30	---	74.00	31.70	100.0	V	250.0	8.2
7386.391667	---	33.51	54.00	20.49	100.0	V	250.0	8.2

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n40_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

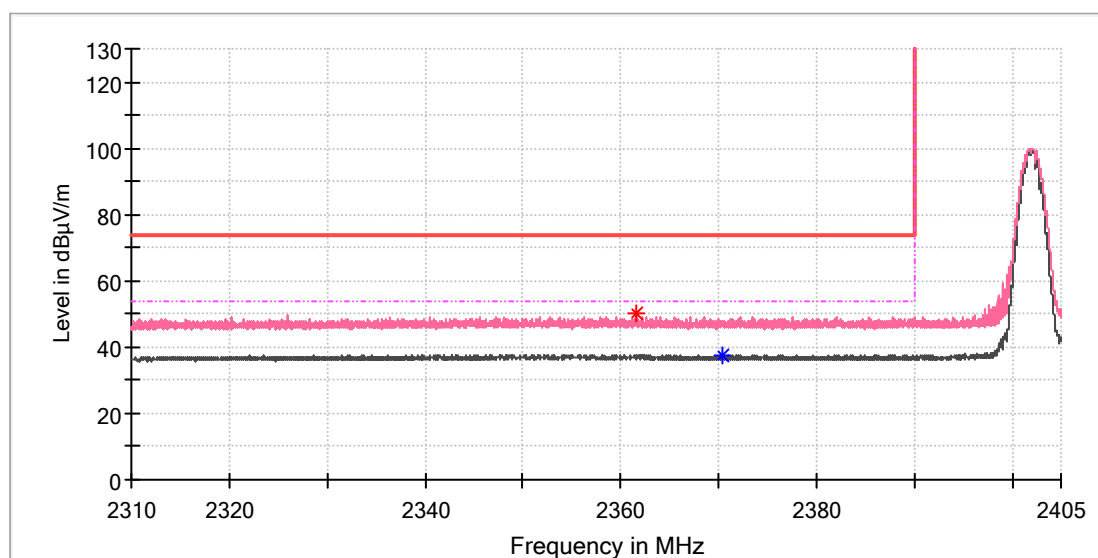
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4922.500000	53.85	---	74.00	20.15	100.0	H	265.0	13.3
4923.500000	---	43.14	54.00	10.86	100.0	H	265.0	13.3
7386.883333	---	33.39	54.00	20.61	100.0	H	149.0	8.2
7386.883333	44.40	---	74.00	29.60	100.0	H	149.0	8.2

Appendix C.2: Test Results of Radiated Emissions in Restricted Bands

Bluetooth Low Energy Low channel

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

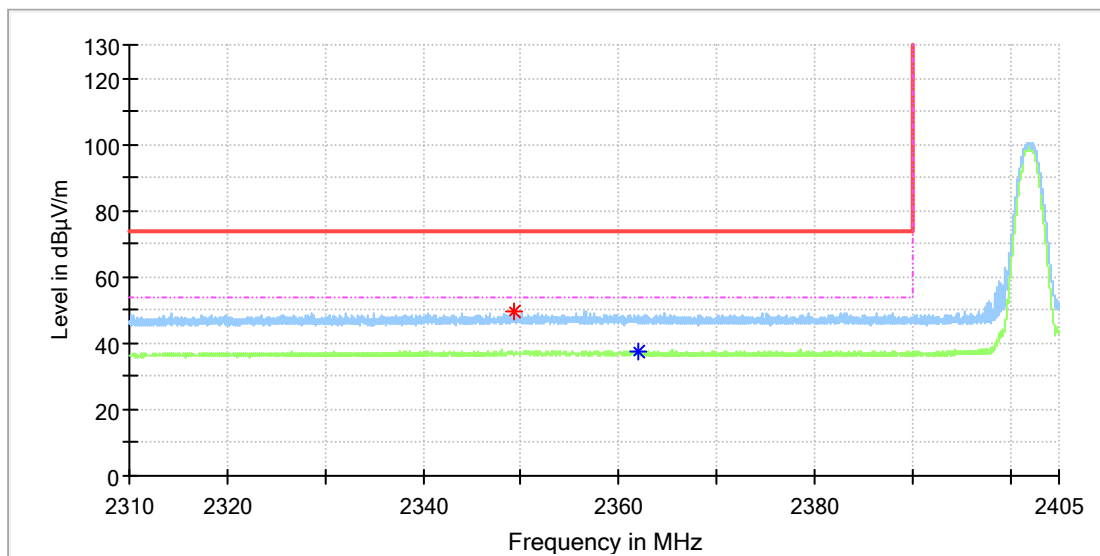


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2361.607353	50.03	---	74.00	23.97	100.0	V	341.0	6.9
2370.352941	---	37.62	54.00	16.38	100.0	V	267.0	6.9

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_Low CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

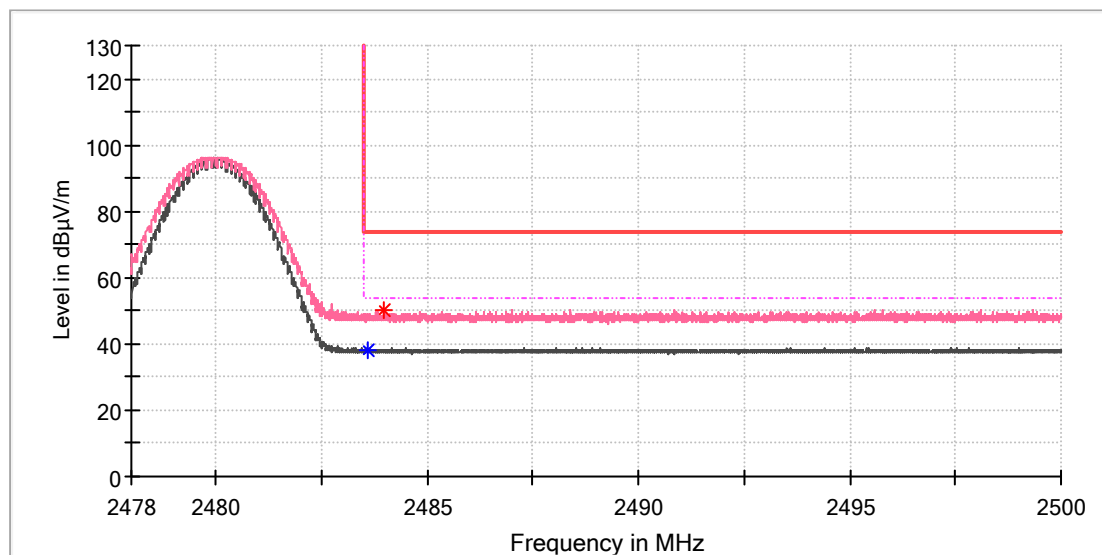


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2349.369118	49.65	---	74.00	24.35	100.0	H	148.0	6.9
2361.942647	---	37.52	54.00	16.48	100.0	H	310.0	6.9

High channel**EUT Information**

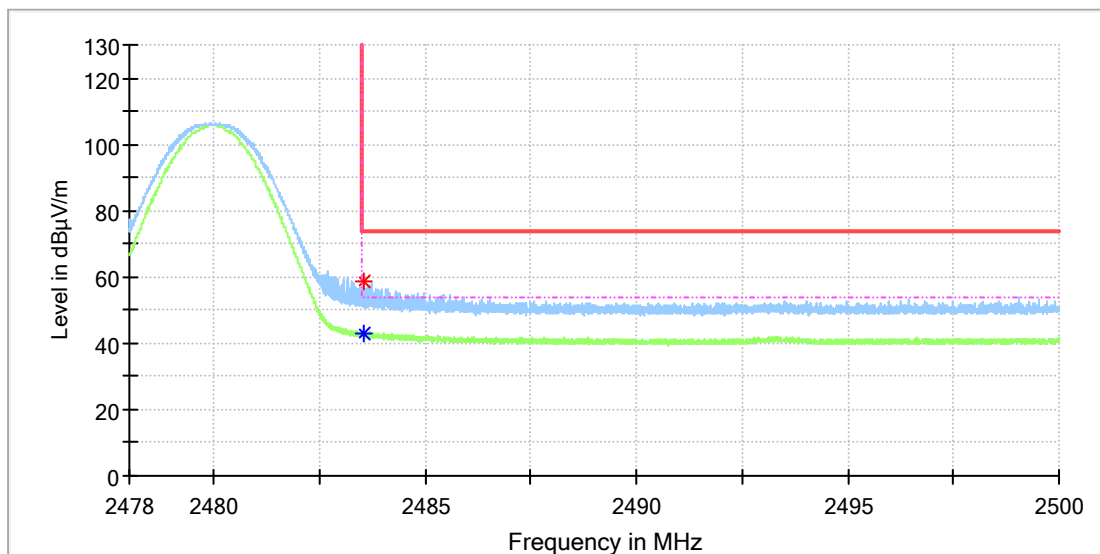
EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	BLE_TX_High CH
Test Voltage::	DC 5V
Remark:	Temp 24 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.616471	---	38.39	54.00	15.61	100.0	V	89.0	7.4
2483.965882	49.89	---	74.00	24.11	100.0	V	67.0	7.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: BLE_TX_High CH
 Test Voltage:: DC 5V
 Remark: Temp 24 Humi:45%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

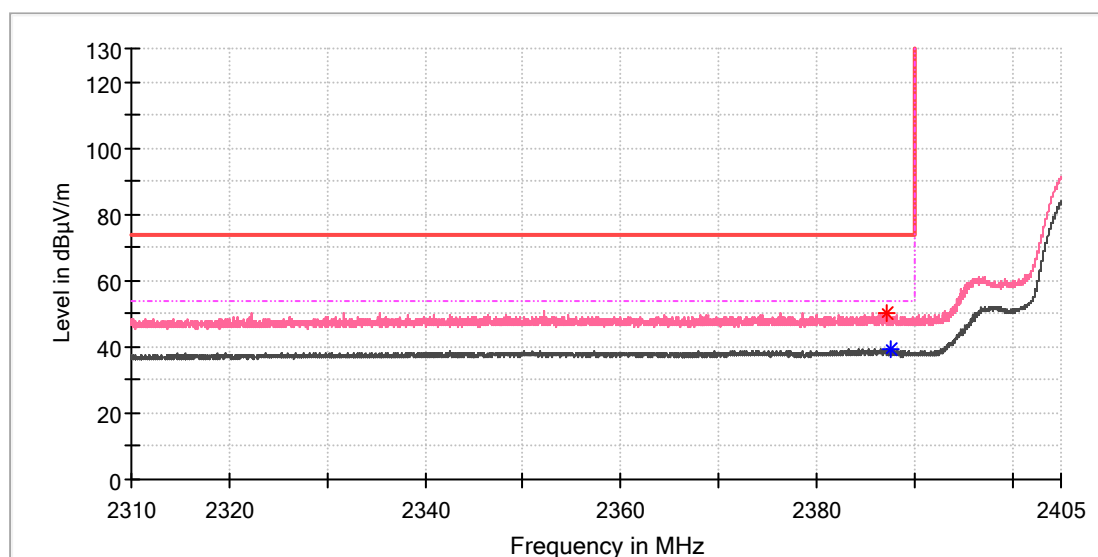


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.535588	58.76	---	74.00	15.24	100.0	H	0.0	7.4
2483.545294	---	43.11	54.00	10.89	100.0	H	358.0	7.4

Wi-Fi 802.11 b mode, 1 Mbps
Low channel
EUT Information

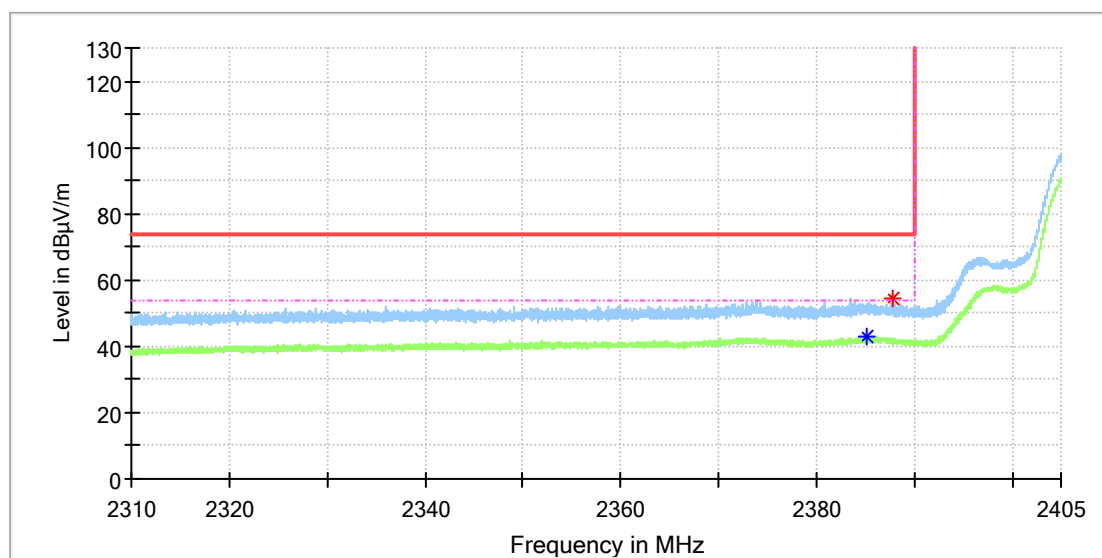
EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11b_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.159559	50.04	---	74.00	23.96	100.0	V	174.0	7.0
2387.550735	---	39.14	54.00	14.86	100.0	V	174.0	7.0

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11b_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



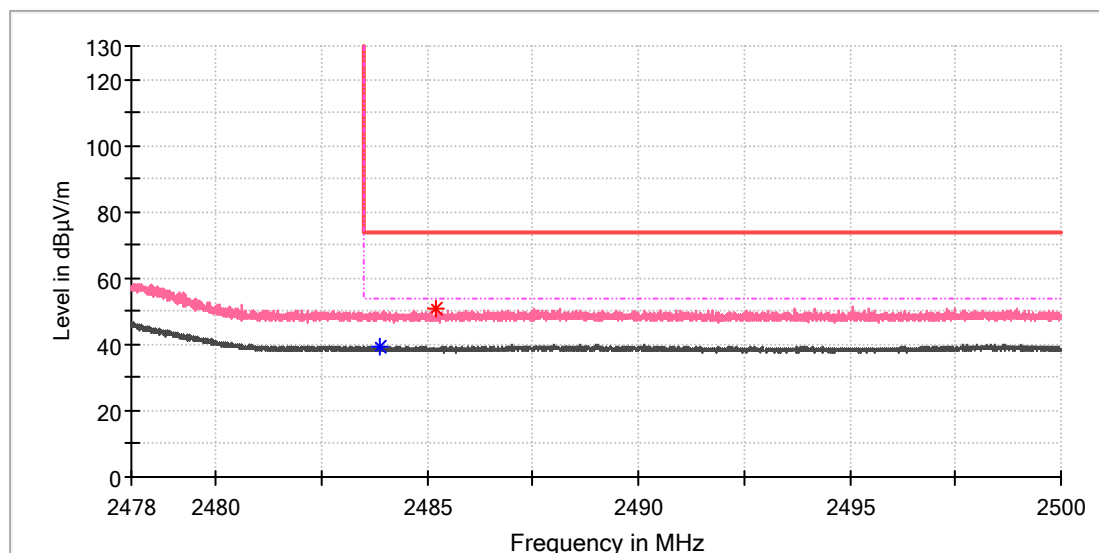
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.217647	---	43.00	54.00	11.00	100.0	H	219.0	7.0
2387.858088	54.17	---	74.00	19.83	100.0	H	219.0	7.0

High channel

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11b_High_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

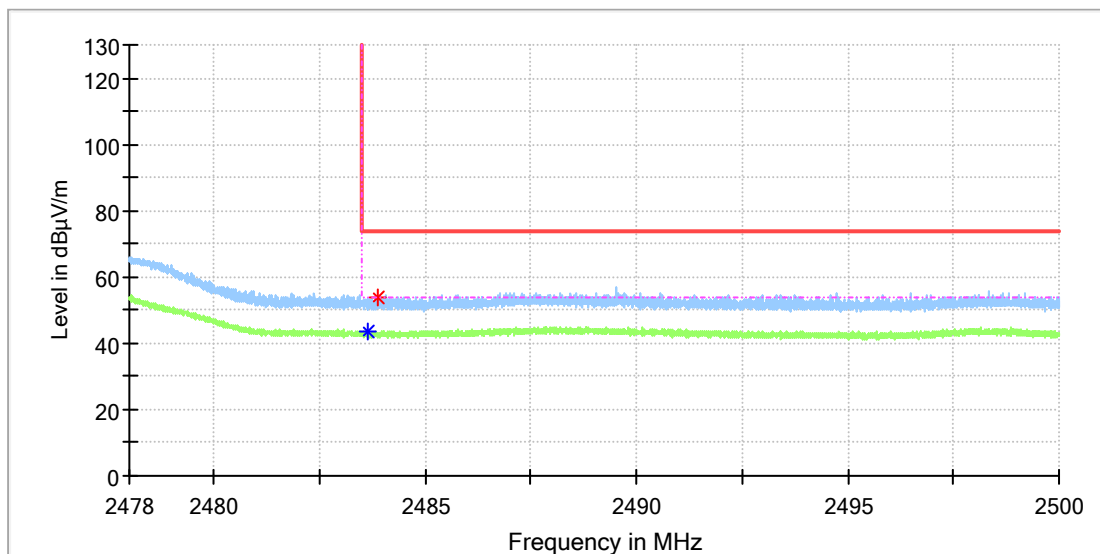


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.859118	---	39.26	54.00	14.74	100.0	V	199.0	7.4
2485.224412	50.86	---	74.00	23.14	100.0	V	187.0	7.4

EUT Information

EUT Name: LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
 Model: LA02301
 Test Mode: WIFI 2.4G_11b_High_CH
 Test Voltage:: DC 5V
 Remark: Temp 23 Humi:42%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



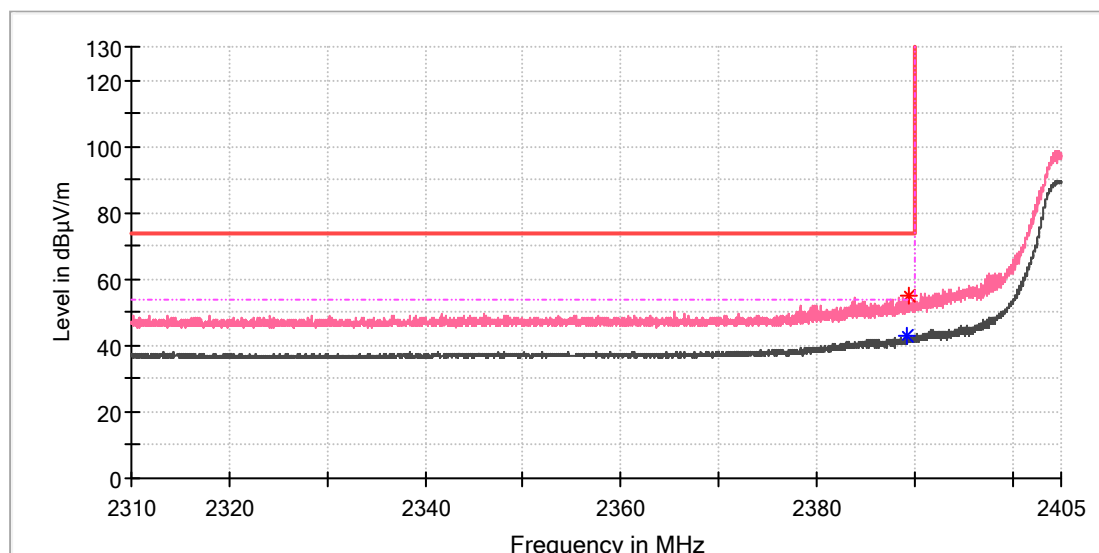
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.629412	---	43.70	54.00	10.30	100.0	H	199.0	7.4
2483.855882	53.96	---	74.00	20.04	100.0	H	199.0	7.4

**Wi-Fi 802.11 g mode, 6 Mbps
Low channel**

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

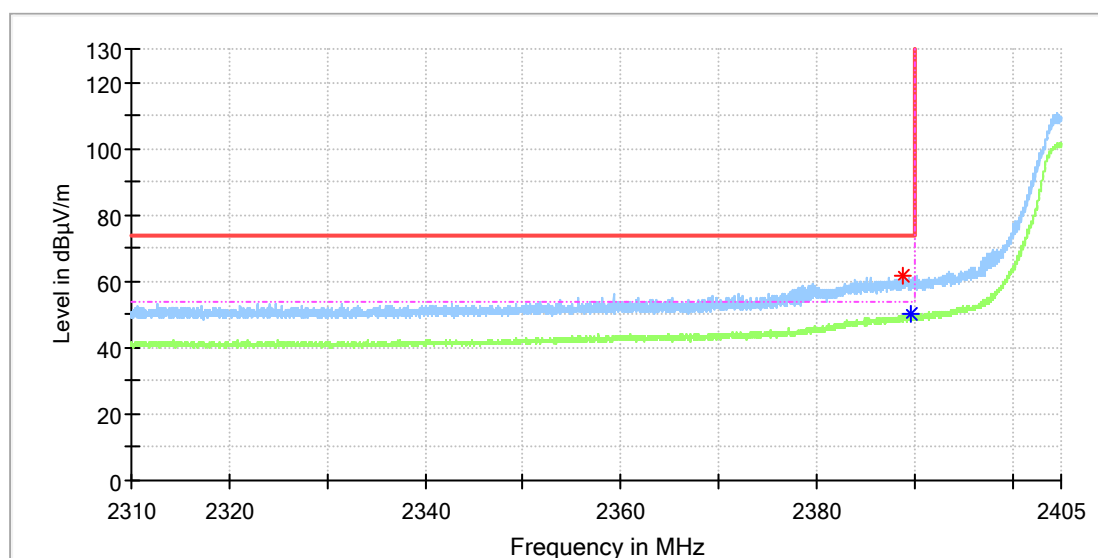


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.269118	---	42.92	54.00	11.08	100.0	V	202.0	7.0
2389.352941	54.85	---	74.00	19.15	100.0	V	202.0	7.0

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



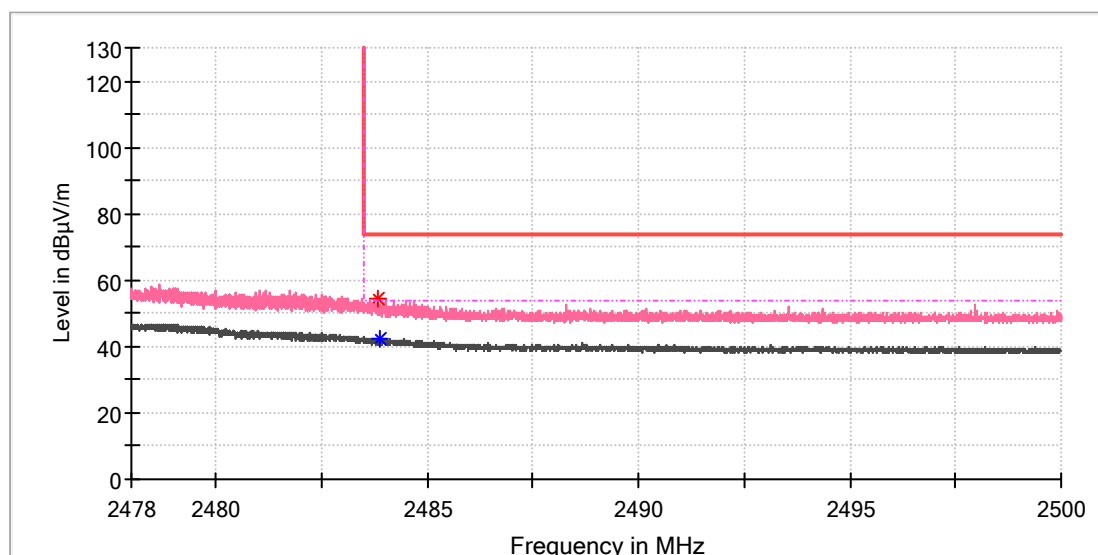
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.891912	61.56	---	74.00	12.44	100.0	H	156.0	7.0
2389.576471	---	49.99	54.00	4.01	100.0	H	156.0	7.0

High channel

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_High_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

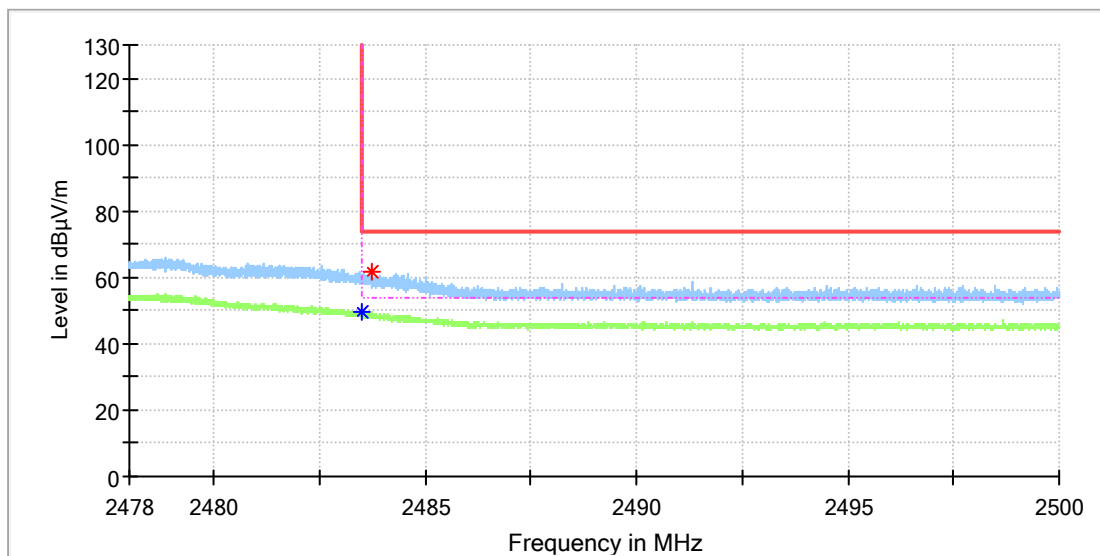


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.833235	54.60	---	74.00	19.40	100.0	V	204.0	7.4
2483.891471	---	42.51	54.00	11.49	100.0	V	204.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11g_High_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

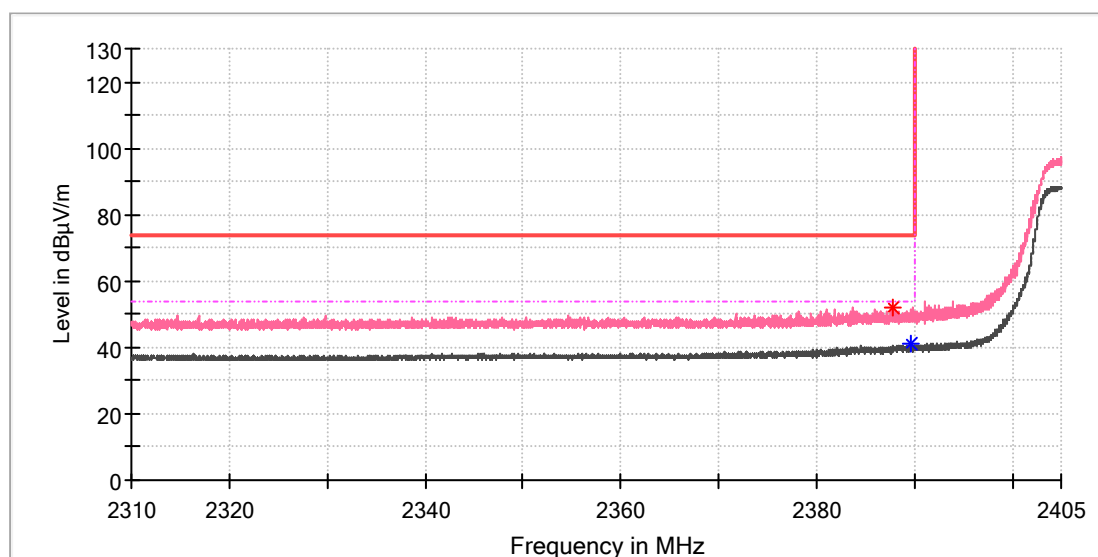


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.522647	---	49.32	54.00	4.68	100.0	H	143.0	7.4
2483.723235	61.49	---	74.00	12.51	100.0	H	143.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0
Low channel
EUT Information

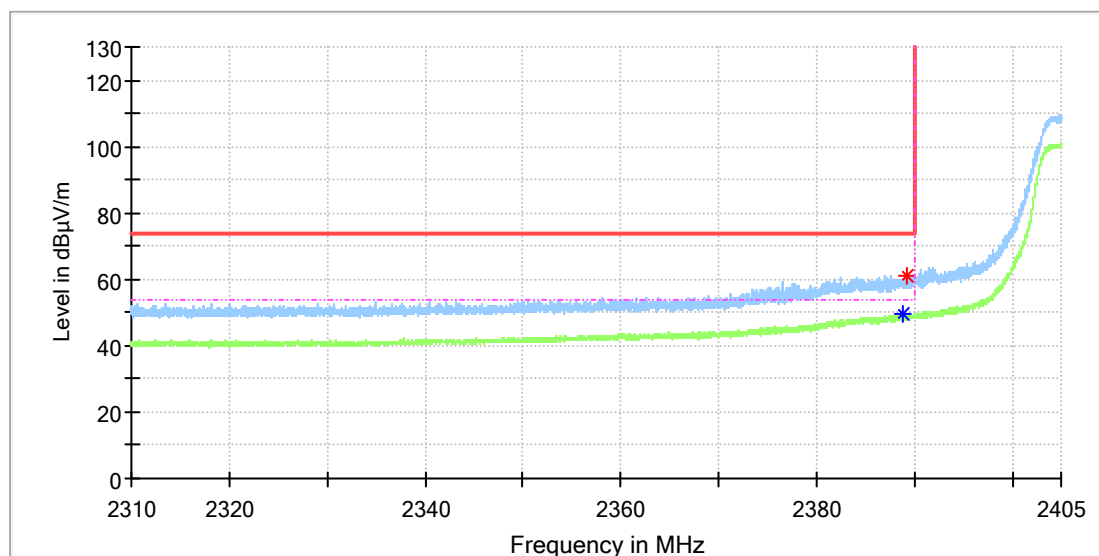
EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20M_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.746324	52.16	---	74.00	21.84	100.0	V	206.0	7.0
2389.646324	---	40.93	54.00	13.07	100.0	V	206.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20M_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



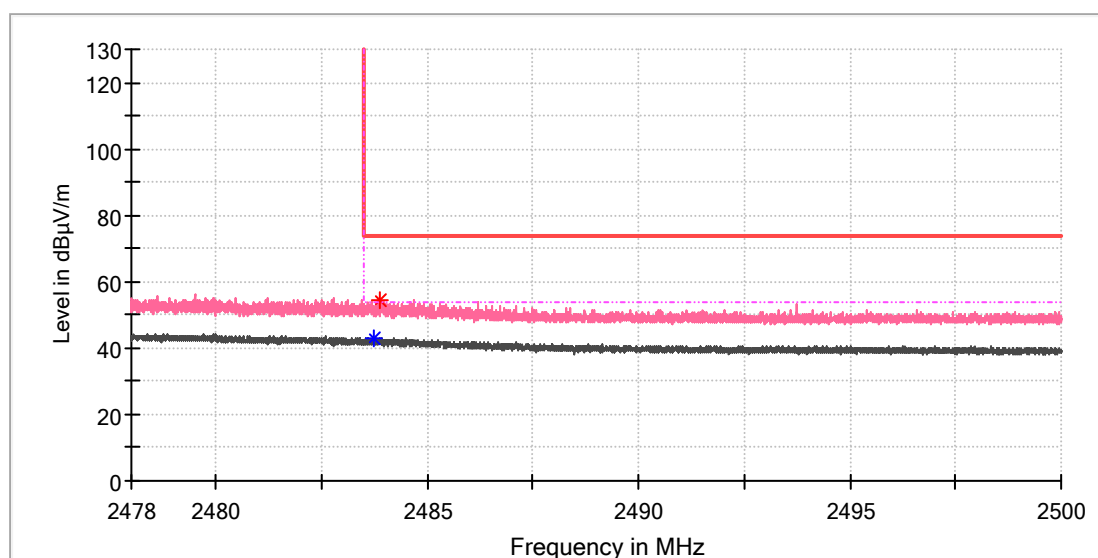
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.919853	---	49.50	54.00	4.50	100.0	H	134.0	7.0
2389.171324	61.07	---	74.00	12.93	100.0	H	134.0	7.0

High channel

EUT Information

EUT Name:	LA02301 Wi-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20M_High_CH
Test Voltage:	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

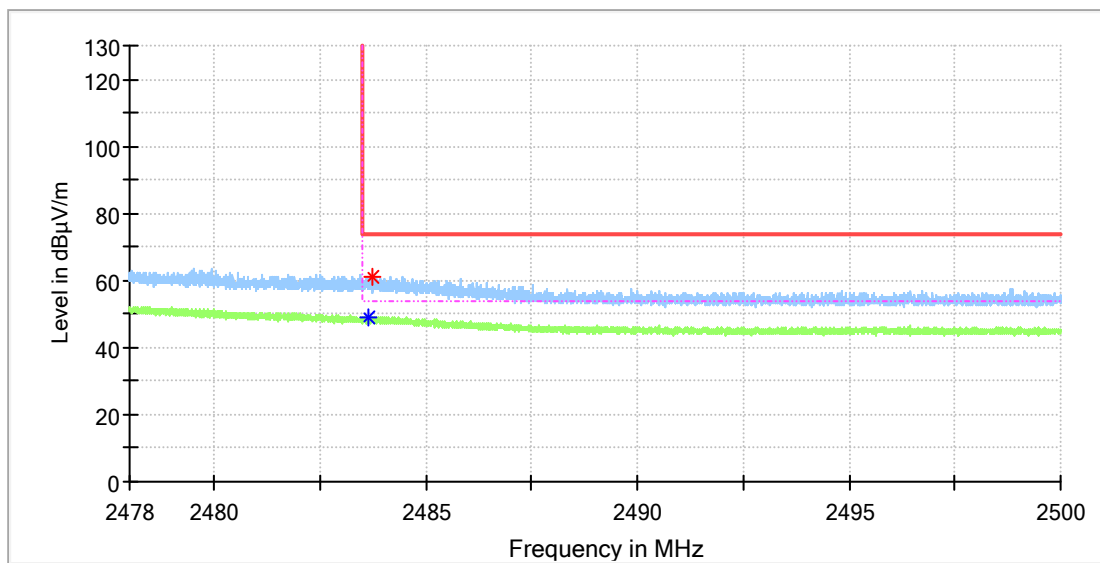


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.755588	---	42.92	54.00	11.08	100.0	V	198.0	7.4
2483.901177	54.30	---	74.00	19.70	100.0	V	198.0	7.4

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n20M_High_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

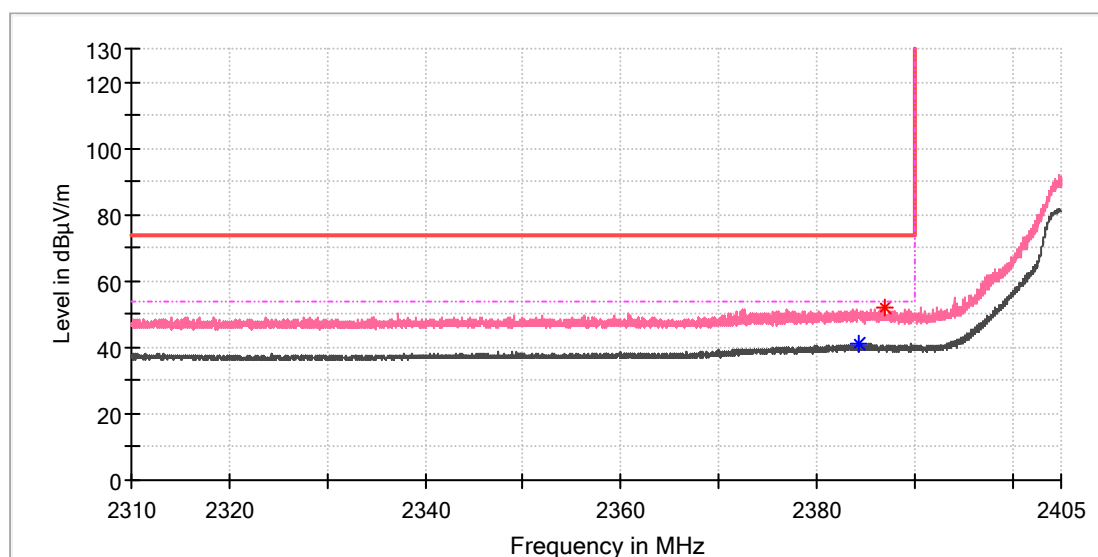


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.665000	---	49.16	54.00	4.84	100.0	H	144.0	7.4
2483.713530	61.05	---	74.00	12.95	100.0	H	144.0	7.4

Wi-Fi 802.11 n(HT40) mode, MCS0
Low channel
EUT Information

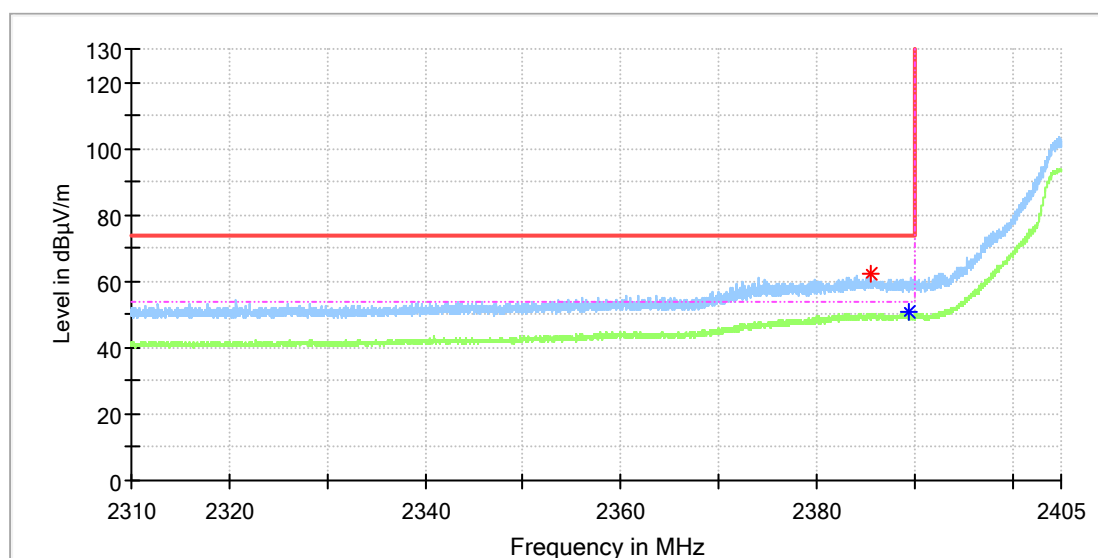
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Model:	LA02301
Test Mode:	WIFI 2.4G_11n40M_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2384.225735	---	41.02	54.00	12.98	100.0	V	211.0	7.0
2387.005882	51.99	---	74.00	22.01	100.0	V	211.0	7.0

EUT Information

EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n40M_Low_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



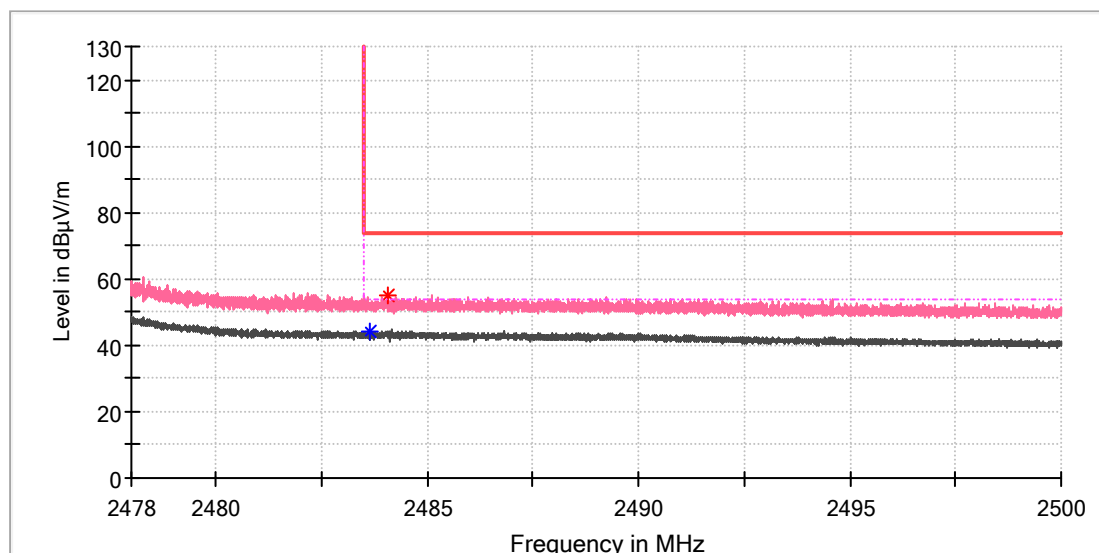
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.552941	62.07	---	74.00	11.93	100.0	H	155.0	7.0
2389.534559	---	50.56	54.00	3.44	100.0	H	129.0	7.0

High channel

EUT Information

EUT Name:	LA02301 WI-FI and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n40M_High_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

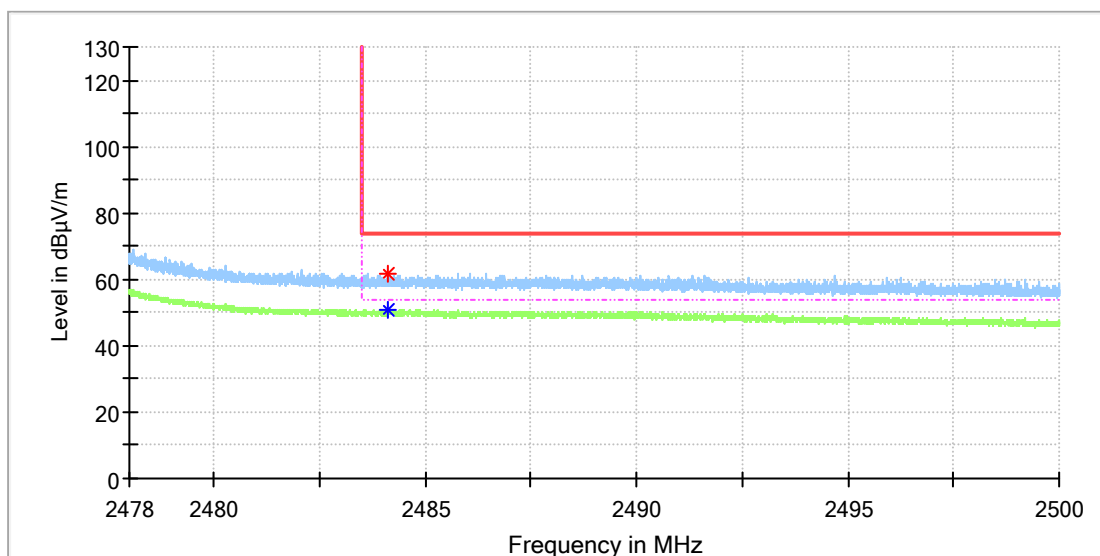


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.658530	---	44.18	54.00	9.82	100.0	V	208.0	7.4
2484.050000	54.80	---	74.00	19.20	100.0	V	208.0	7.4

EUT Information

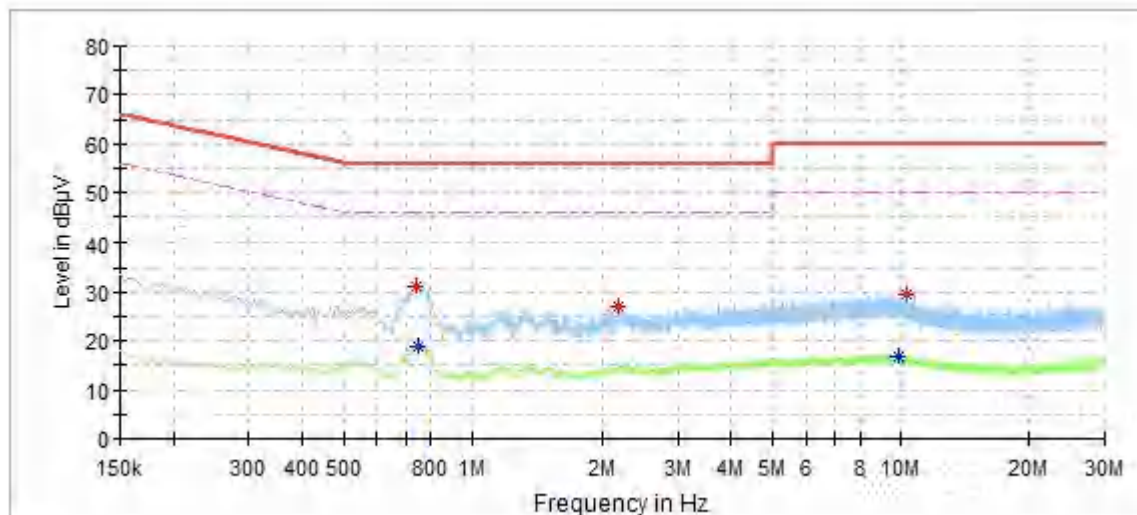
EUT Name:	LA02301 WI-Fi and Bluetooth SMART (BLE) Combo Module
Model:	LA02301
Test Mode:	WIFI 2.4G_11n40M_High_CH
Test Voltage::	DC 5V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

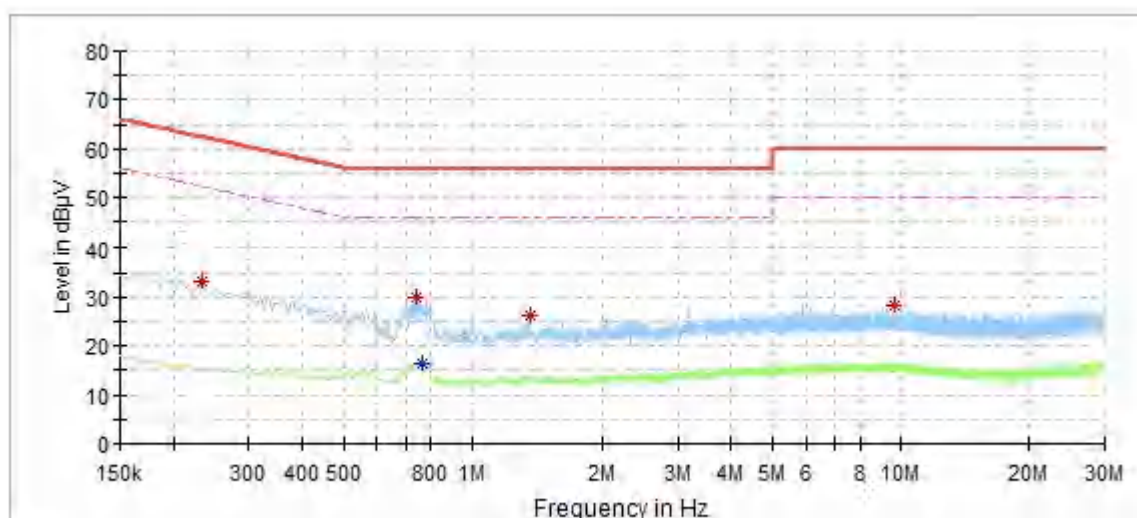
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.101765	---	50.89	54.00	3.11	100.0	H	133.0	7.4
2484.108235	61.72	---	74.00	12.28	100.0	H	146.0	7.4

Appendix C.3: Test Results of Conducted Emission on AC Mains



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.744000	31.38	---	56.00	24.62	---	---	L1	9.7
0.748000	---	18.98	46.00	27.02	---	---	L1	9.7
2.184000	27.08	---	56.00	28.92	---	---	L1	9.8
9.820000	---	16.85	50.00	33.15	---	---	L1	10.1
10.332000	29.41	---	60.00	30.59	---	---	L1	10.1



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.234000	33.17	---	62.31	29.13	---	---	N	9.8
0.740000	29.97	---	56.00	26.03	---	---	N	9.7
0.764000	---	16.38	46.00	29.62	---	---	N	9.7
1.368000	26.25	---	56.00	29.75	---	---	N	9.8
9.644000	28.21	---	60.00	31.79	---	---	N	10.1