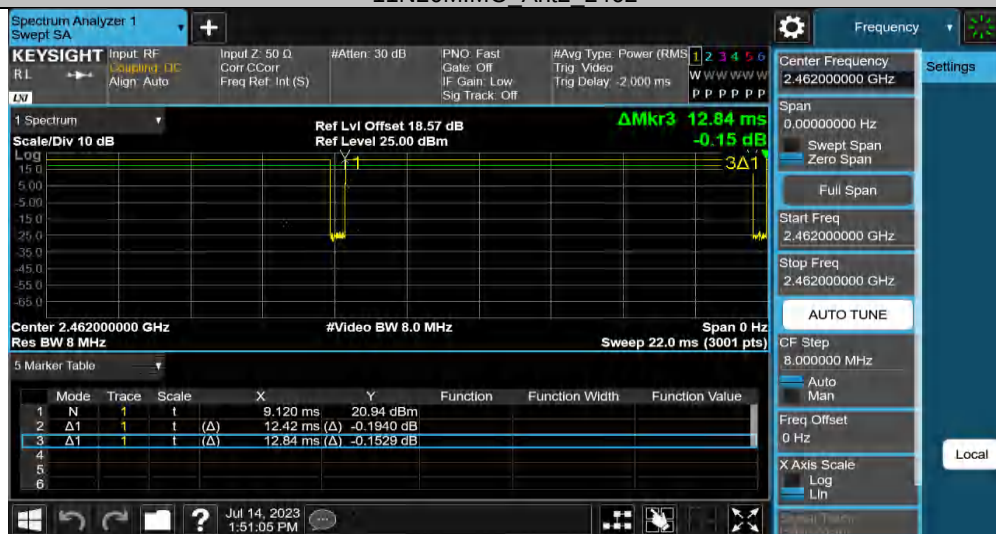




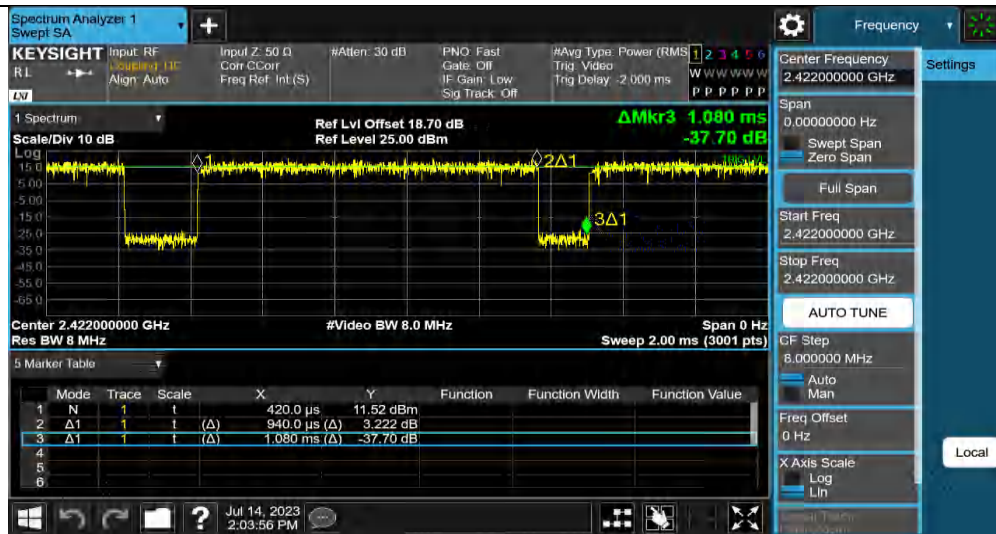
11N20MIMO Ant1 2462



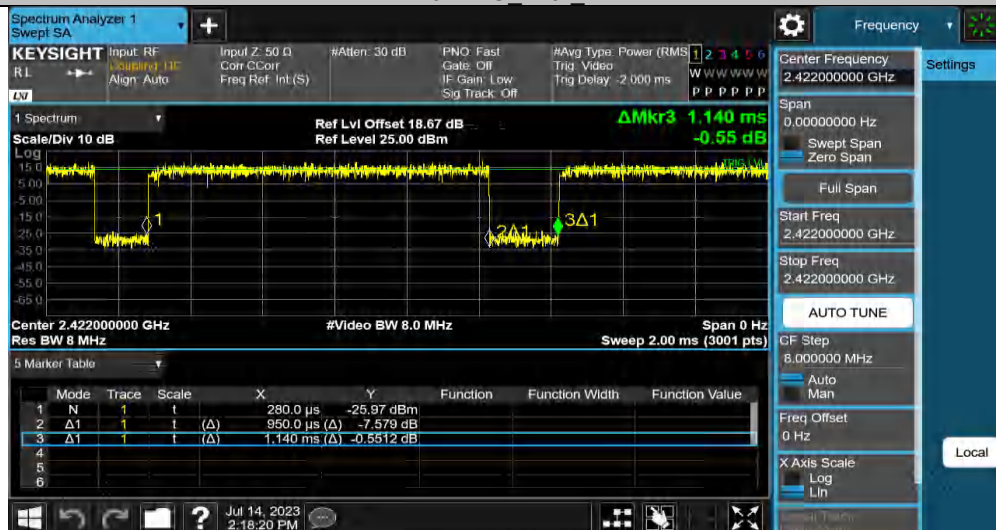
11N20MIMO Ant2 2462



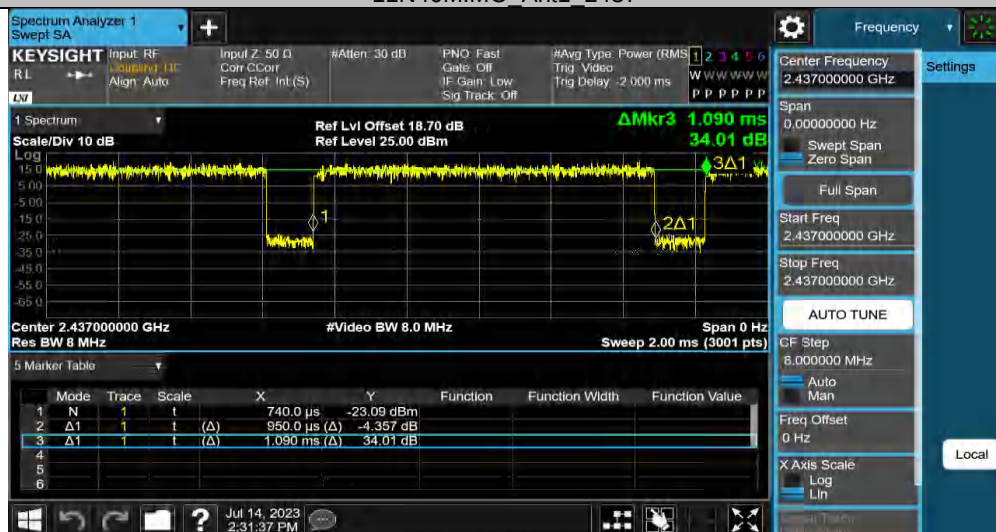
11N40MIMO Ant1 2422



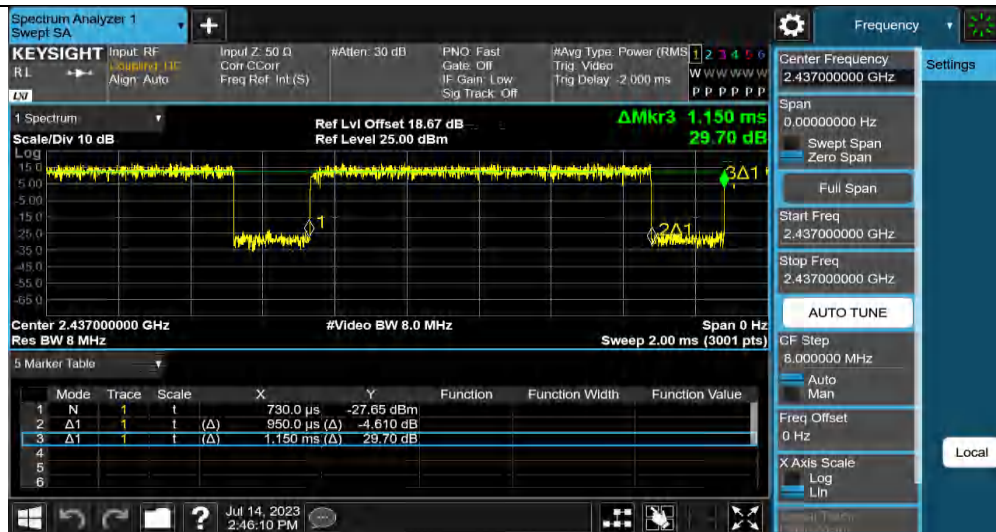
11N40MIMO Ant2 2422



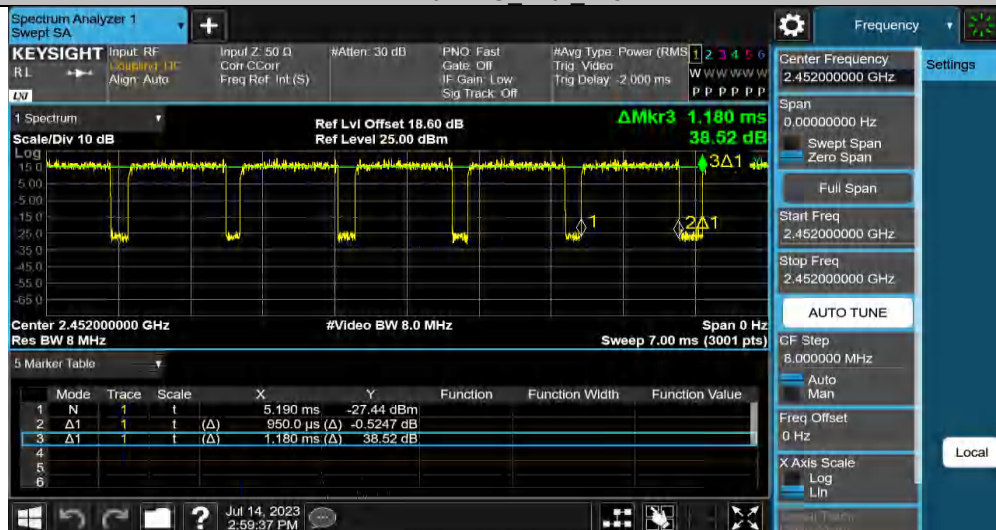
11N40MIMO Ant1 2437



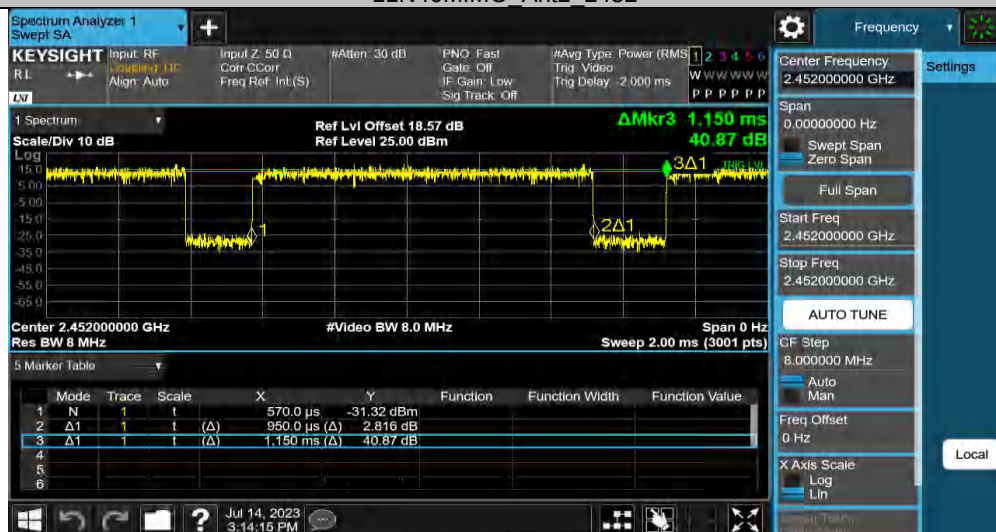
11N40MIMO Ant2 2437



11N40MIMO Ant1 2452



11N40MIMO Ant2 2452



1.8 Appendix G: Radiated spurious emission.

Note: 1. 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. 2. This testing was carried out on different modulations for MIMO or ANT1 or ANT2 mode, but only the worst case (ANT1) was presented in this report.

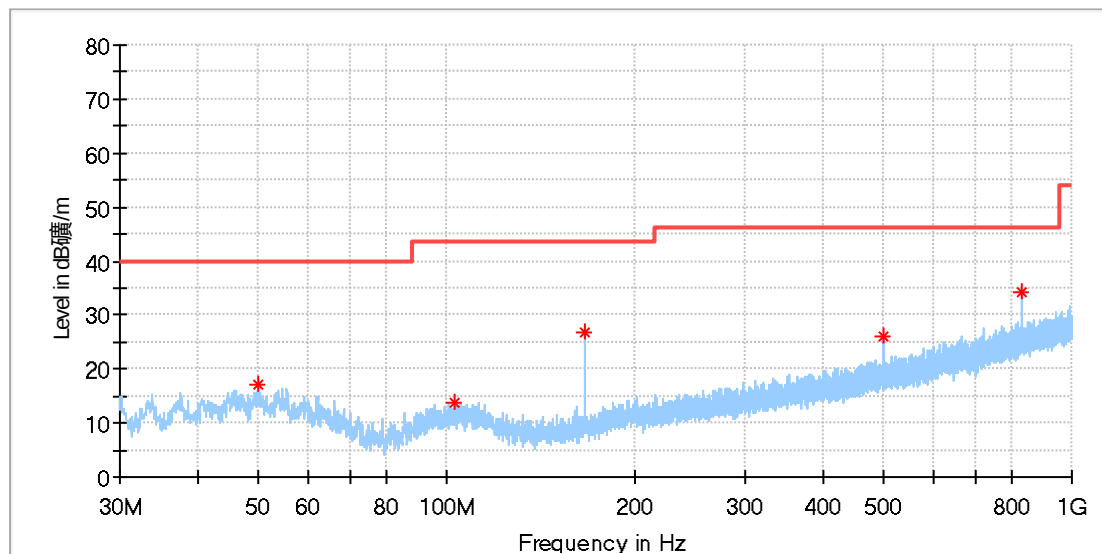
Note2: The highest waveform in the figure is Wi-Fi and Bluetooth Fundamental.

802.11b mode

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.030500	17.26	40.00	22.74	100.0	H	56.0	-18.3
103.089500	13.84	43.50	29.66	100.0	H	330.0	-18.8
166.673000	26.82	43.50	16.68	100.0	H	132.0	-21.4
500.062000	26.04	46.00	19.96	100.0	H	252.0	-11.8
833.402500	34.24	46.00	11.76	100.0	H	110.0	-5.8

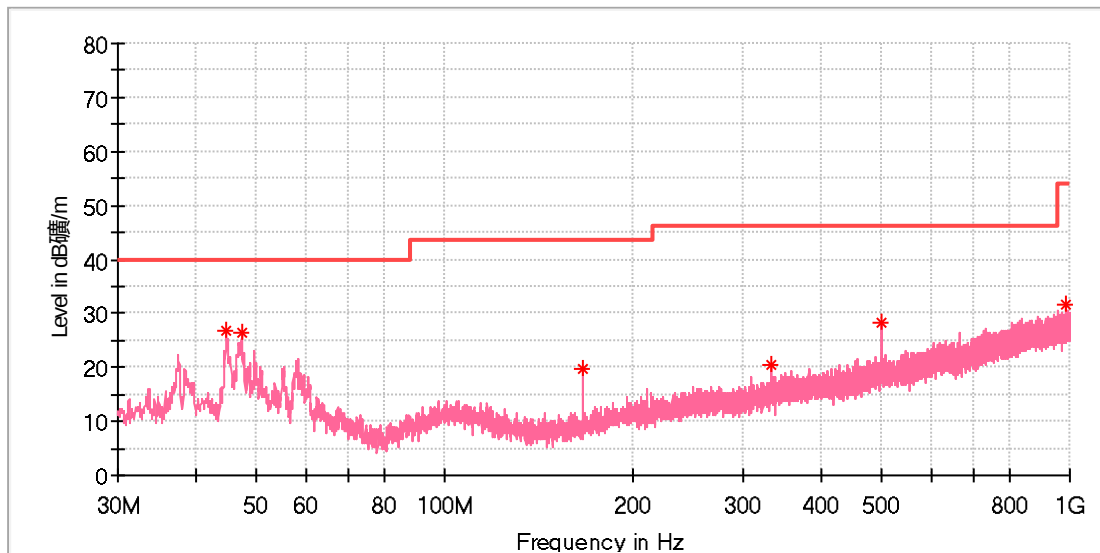
Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.744000	26.68	40.00	13.32	100.0	V	240.0	-18.9
47.314500	26.33	40.00	13.67	100.0	V	37.0	-18.5
166.673000	19.81	43.50	23.69	100.0	V	206.0	-21.4
333.319000	20.40	46.00	25.60	100.0	V	220.0	-15.3
500.062000	28.38	46.00	17.62	100.0	V	30.0	-11.8
985.741000	31.59	54.00	22.41	100.0	V	82.0	-3.9

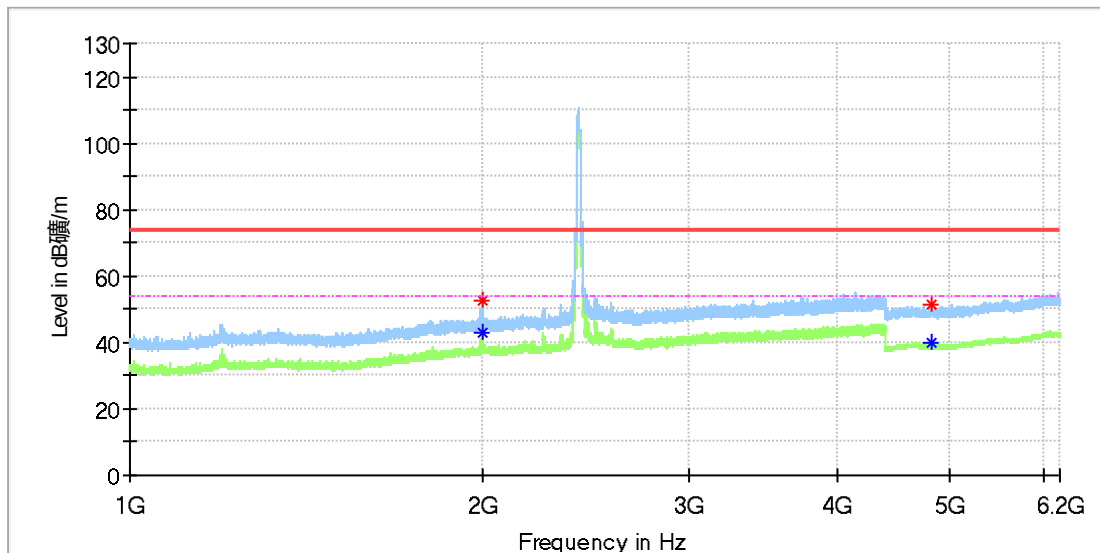
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
1997.900000	---	43.18	54.00	10.82	150.0	H	214.0	6.0
1997.900000	52.76	---	74.00	21.24	150.0	H	214.0	6.0
4823.500000	51.41	---	74.00	22.59	150.0	H	154.0	11.8
4823.500000	---	40.16	54.00	13.84	150.0	H	154.0	11.8

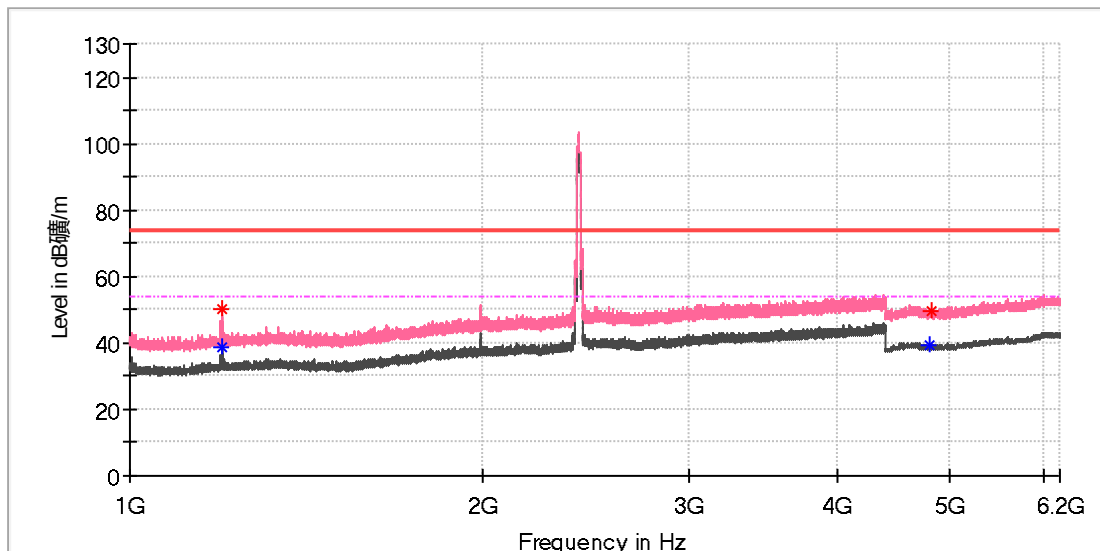
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
1196.860000	50.32	---	74.00	23.68	150.0	V	307.0	1.1
1198.560000	---	38.97	54.00	15.03	150.0	V	317.0	1.1
4808.000000	---	39.21	54.00	14.79	150.0	V	278.0	11.8
4821.000000	49.87	---	74.00	24.13	150.0	V	191.0	11.8

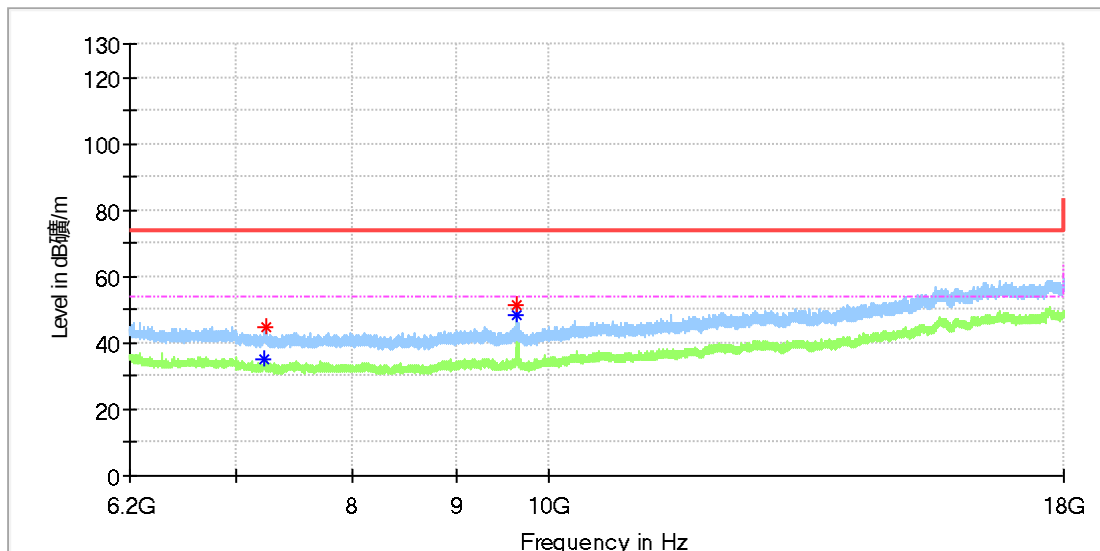
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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	---	35.21	54.00	18.79	150.0	H	341.0	8.6
7236.433333	44.95	---	74.00	29.05	150.0	H	341.0	8.6
9648.058333	---	48.51	54.00	5.49	150.0	H	145.0	10.4
9648.058333	51.35	---	74.00	22.65	150.0	H	145.0	10.4

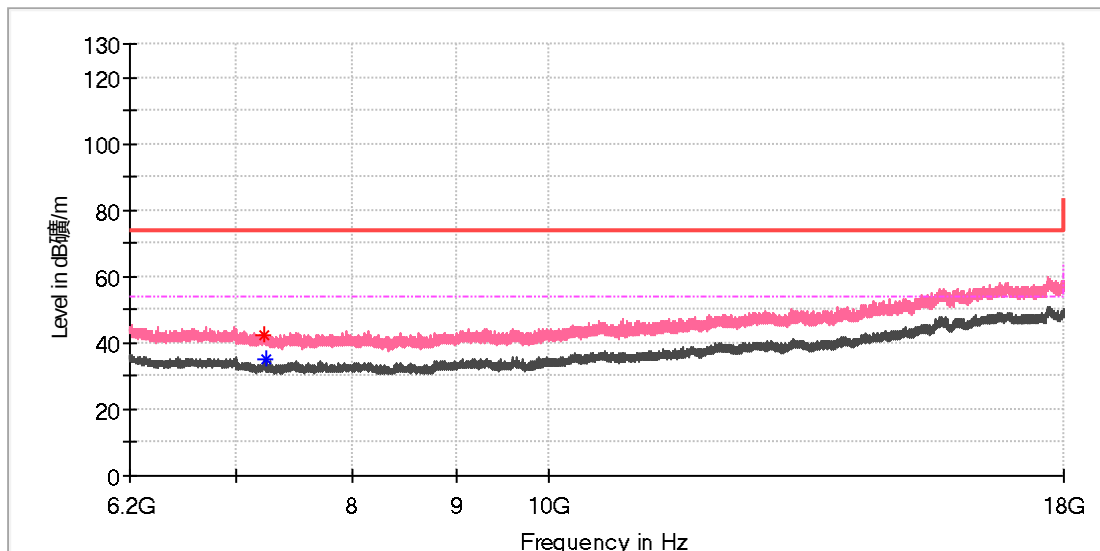
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
7230.041667	42.44	---	74.00	31.56	150.0	V	9.0	8.6
7238.891667	---	35.23	54.00	18.77	150.0	V	1.0	8.6

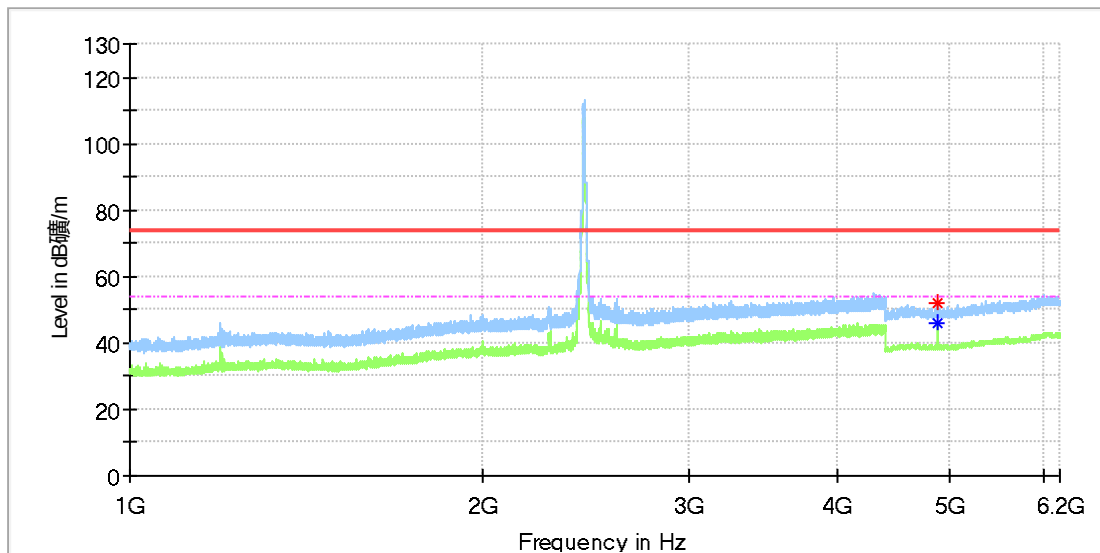
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
4870.000000	51.75	---	74.00	22.25	150.0	H	11.0	11.8
4874.000000	---	45.95	54.00	8.05	150.0	H	99.0	11.8

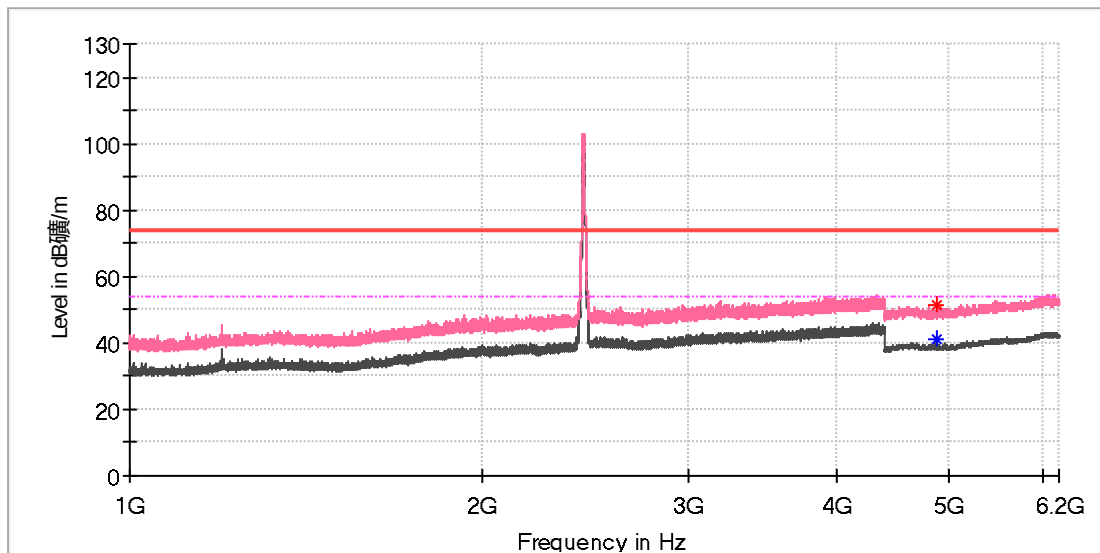
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
4874.000000	---	41.35	54.00	12.65	150.0	V	335.0	11.8
4874.000000	51.31	---	74.00	22.69	150.0	V	335.0	11.8

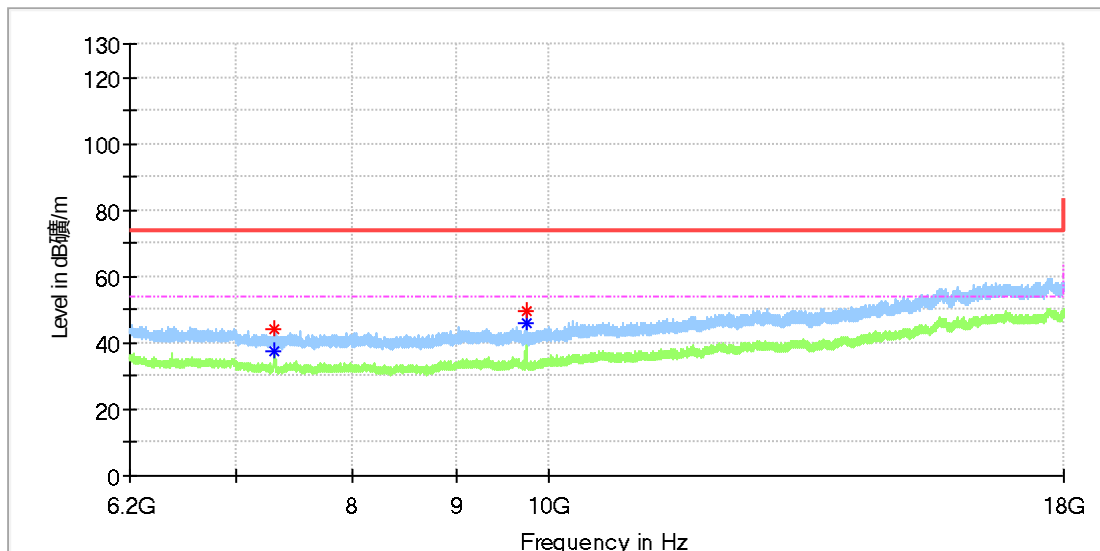
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
7308.216667	43.97	---	74.00	30.03	150.0	H	0.0	8.2
7311.658333	---	37.76	54.00	16.24	150.0	H	342.0	8.2
9747.866667	49.49	---	74.00	24.51	150.0	H	114.0	10.4
9747.866667	---	46.17	54.00	7.83	150.0	H	114.0	10.4

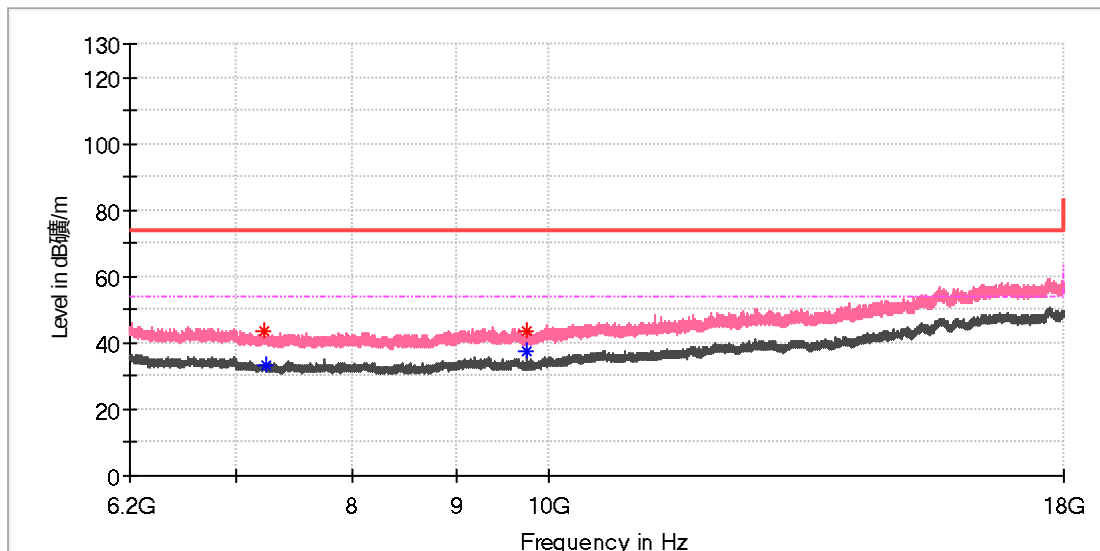
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
7231.516667	43.70	---	74.00	30.30	150.0	V	355.0	8.6
7236.433333	---	33.49	54.00	20.51	150.0	V	176.0	8.6
9747.866667	43.49	---	74.00	30.51	150.0	V	259.0	10.4
9747.866667	---	37.34	54.00	16.66	150.0	V	259.0	10.4

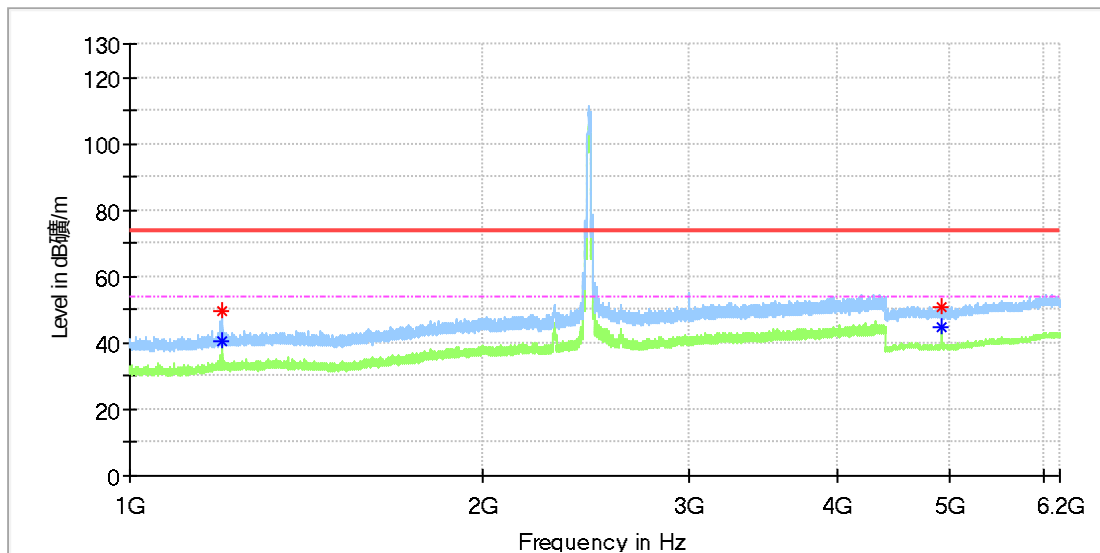
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name: Rokid Station
Model: RES102
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168429121/A003488166-001
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
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)
1196.180000	49.49	---	74.00	24.51	150.0	H	0.0	1.1
1196.180000	---	40.24	54.00	13.76	150.0	H	0.0	1.1
4924.000000	51.02	---	74.00	22.98	150.0	H	222.0	11.8
4924.000000	---	44.61	54.00	9.39	150.0	H	222.0	11.8

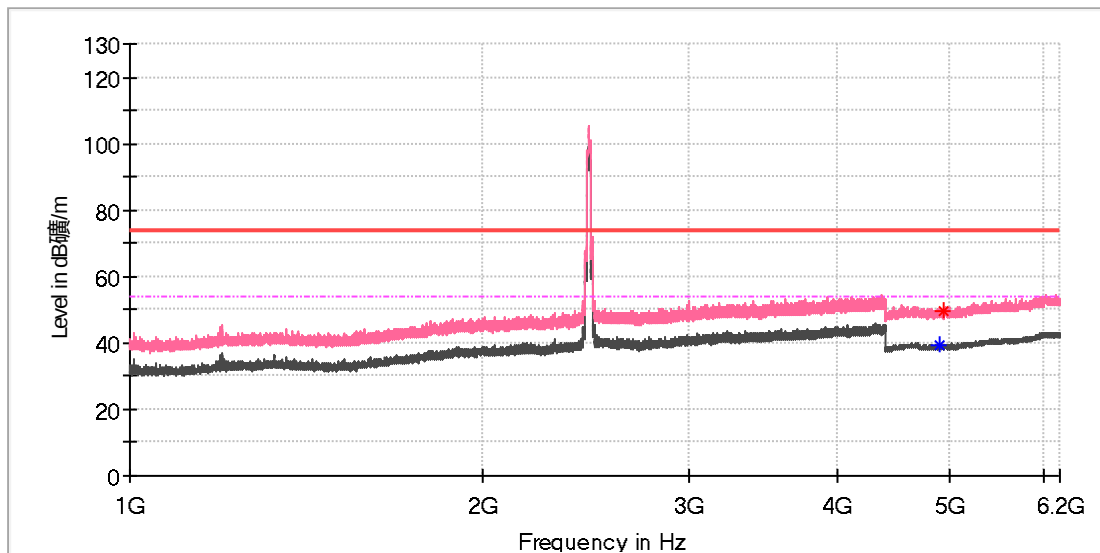
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
4904.000000	---	39.28	54.00	14.72	150.0	V	198.0	11.8
4935.500000	49.87	---	74.00	24.13	150.0	V	103.0	11.8

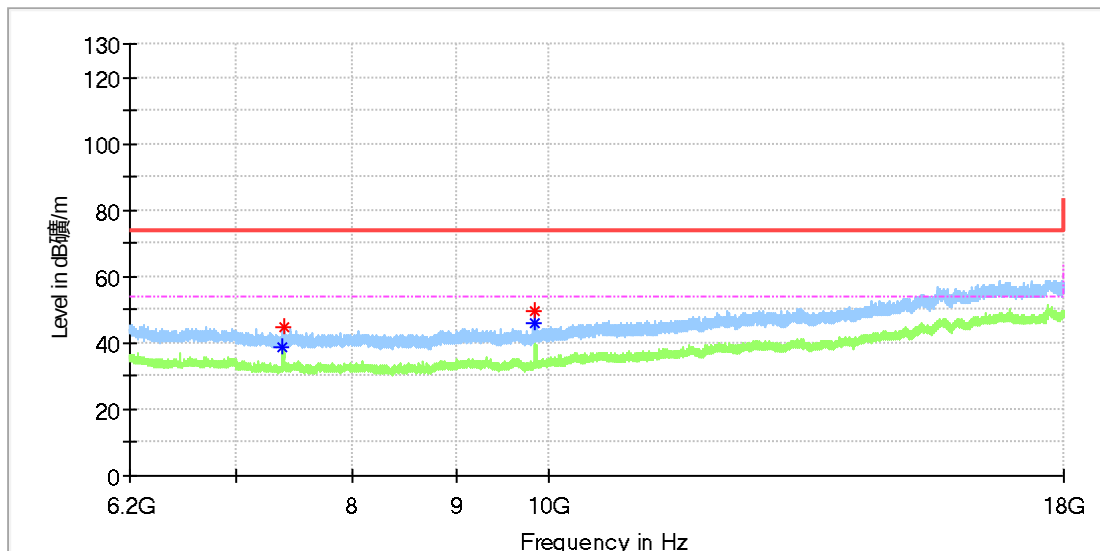
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Rokid Station
Model: RES102
Test Mode: WIFI 2.4G_11b_Ch11
Order No/Sample No: 168429121/A003488166-001
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
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)
7384.916667	---	38.56	54.00	15.44	150.0	H	329.0	8.2
7387.866667	44.84	---	74.00	29.16	150.0	H	329.0	8.2
9848.166667	49.64	---	74.00	24.36	150.0	H	160.0	10.6
9848.166667	---	46.03	54.00	7.97	150.0	H	160.0	10.6

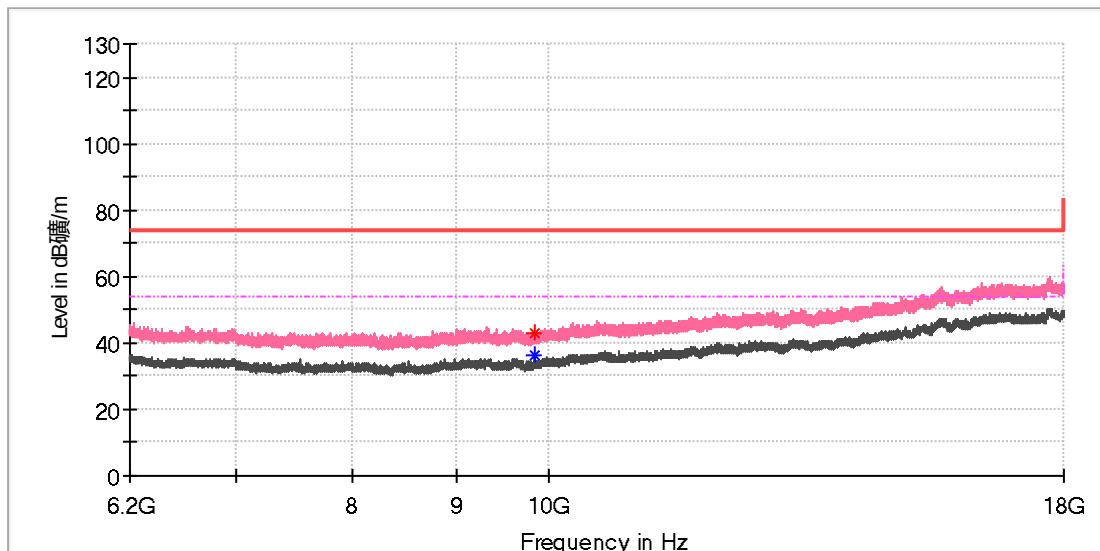
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
9847.675000	43.03	---	74.00	30.97	150.0	V	23.0	10.6
9848.166667	---	36.28	54.00	17.72	150.0	V	23.0	10.6

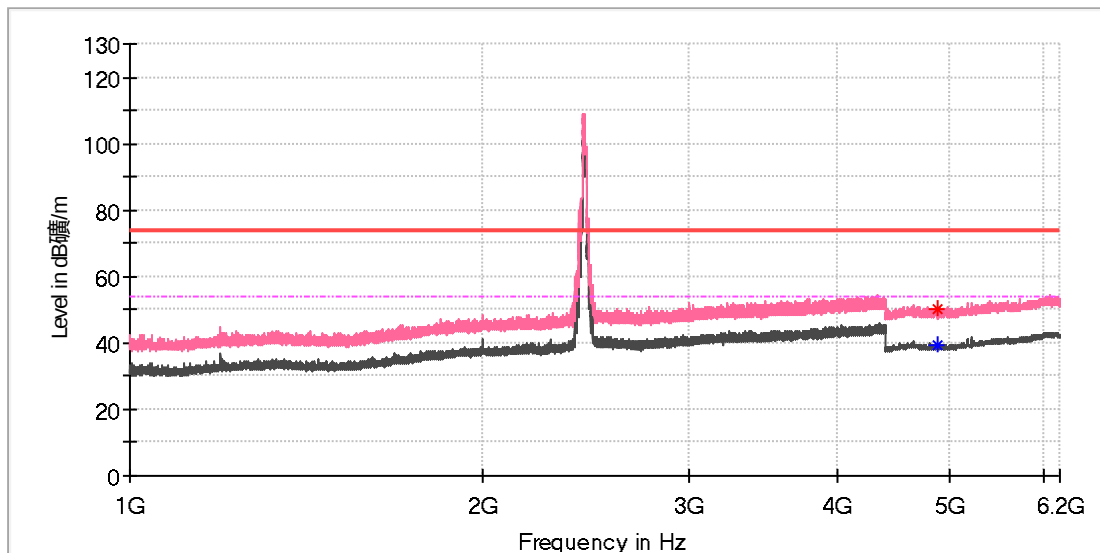
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n20+Bluetooth
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
4878.500000	50.46	---	74.00	23.54	150.0	V	229.0	11.8
4880.500000	---	39.37	54.00	14.63	150.0	V	33.0	11.8

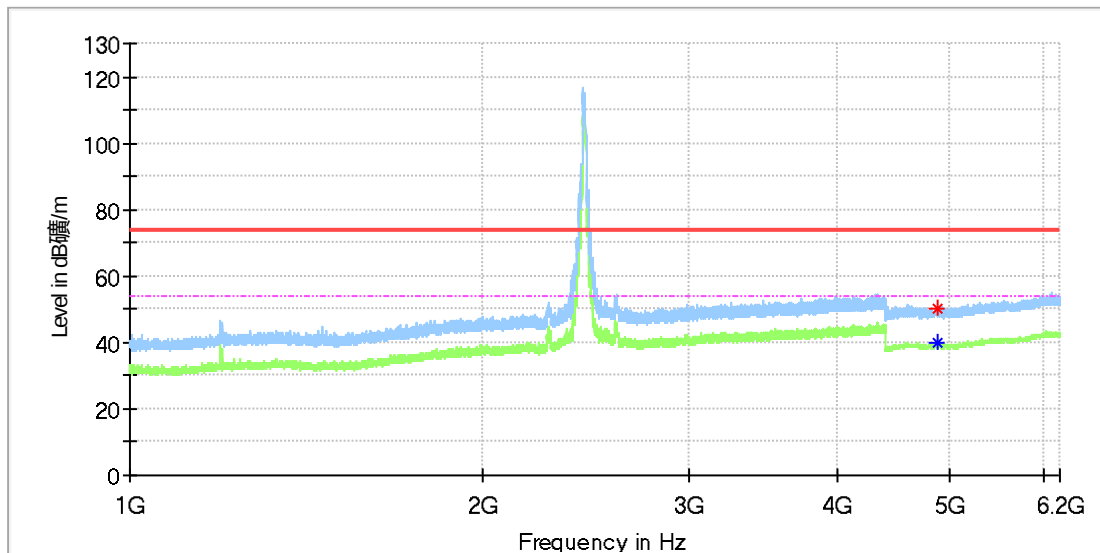
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n20+Bluetooth
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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	---	39.94	54.00	14.06	150.0	H	93.0	11.8
4879.500000	50.31	---	74.00	23.69	150.0	H	204.0	11.8

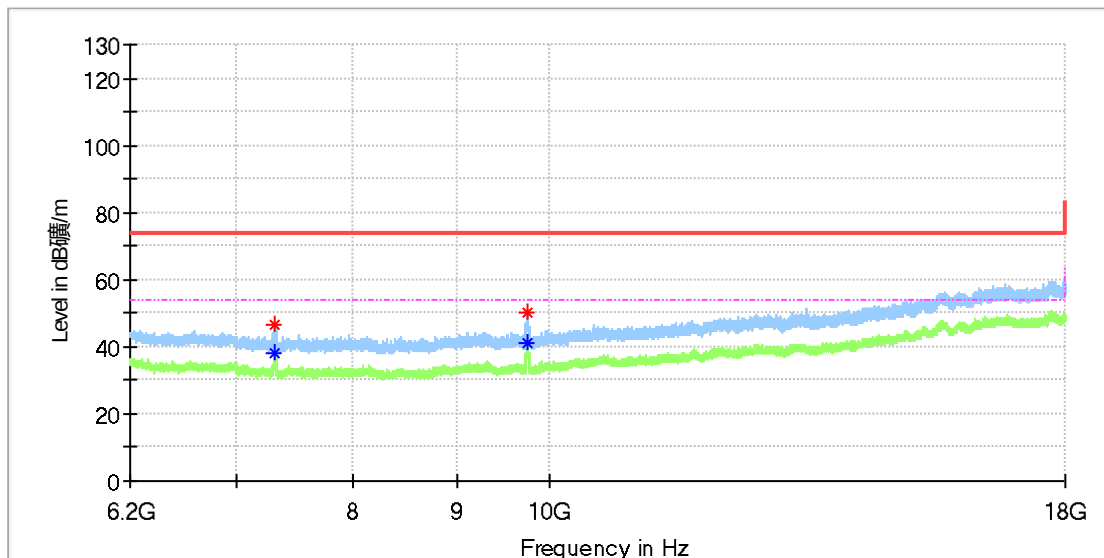
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n20+Bluetooth
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
7315.100000	---	38.31	54.00	15.69	150.0	H	8.0	8.2
7315.100000	46.44	---	74.00	27.56	150.0	H	8.0	8.2
9747.866667	---	40.94	54.00	13.06	150.0	H	157.0	10.4
9756.225000	50.05	---	74.00	23.95	150.0	H	133.0	10.4

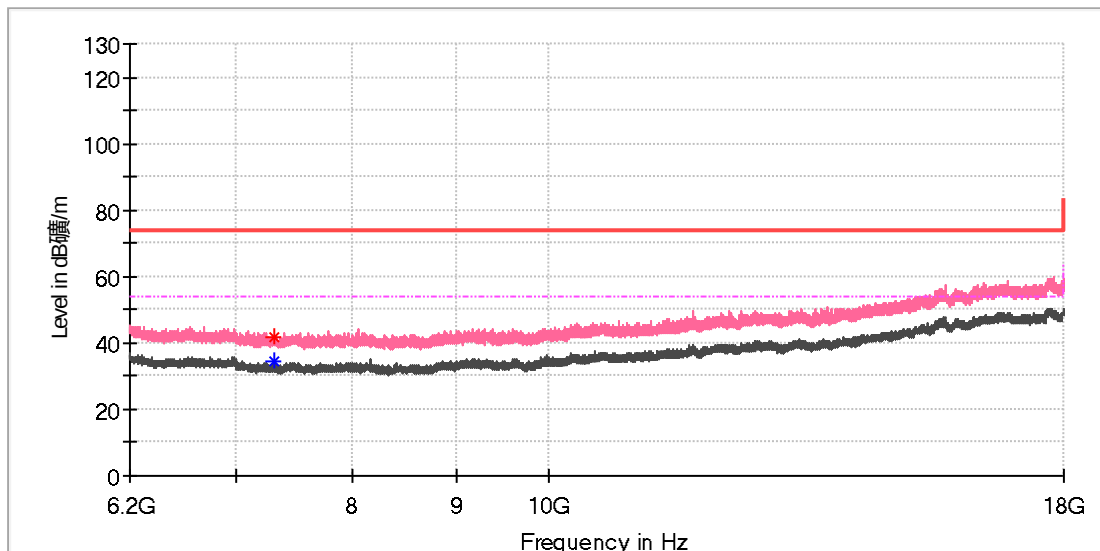
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n20+Bluetooth
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
7308.216667	41.87	---	74.00	32.13	150.0	V	0.0	8.2
7308.216667	---	34.37	54.00	19.63	150.0	V	0.0	8.2

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

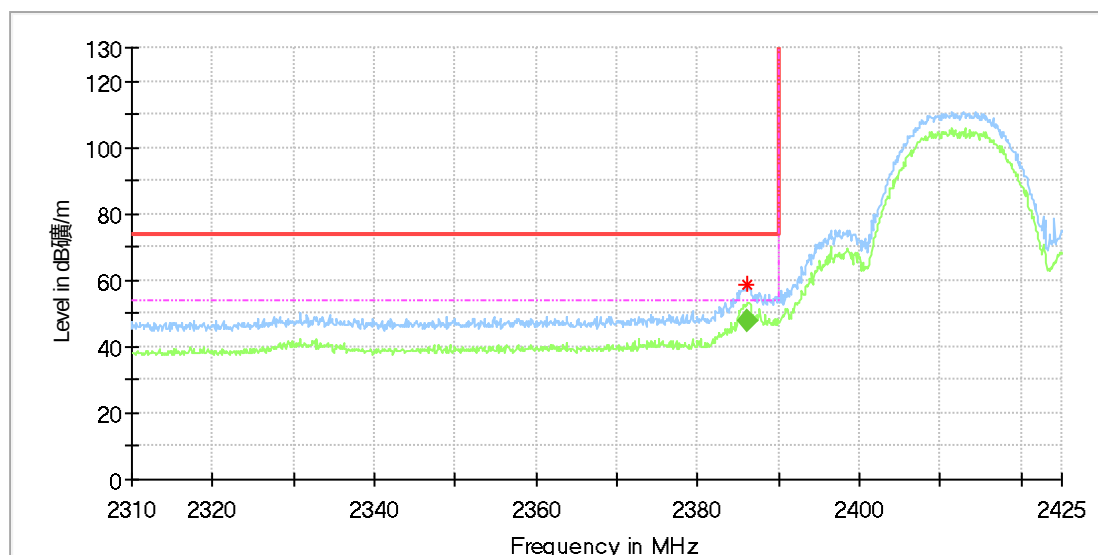
1.9 Appendix H: Radiated Emissions in Restricted Bands

Wi-Fi 802.11 b mode, 1 Mbps

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2386.000000	58.78	---	74.00	15.22	150.0	H	308.0	7.0

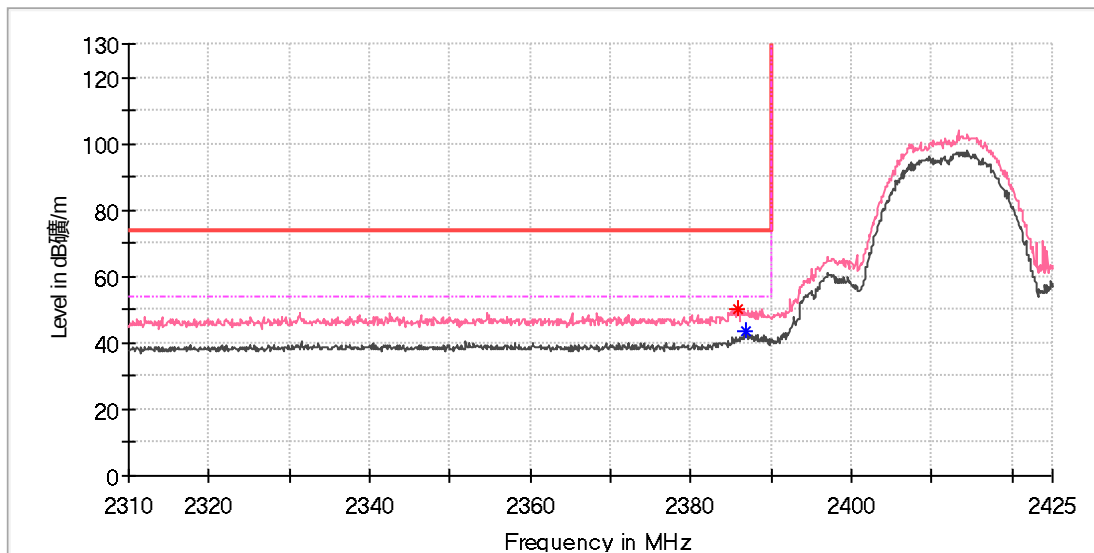
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.050900	47.86	54.00	6.14	145.0	H	307.0	7.0

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2385.800000	50.15	---	74.00	23.85	150.0	V	113.0	7.0
2386.800000	---	43.44	54.00	10.56	150.0	V	0.0	7.0

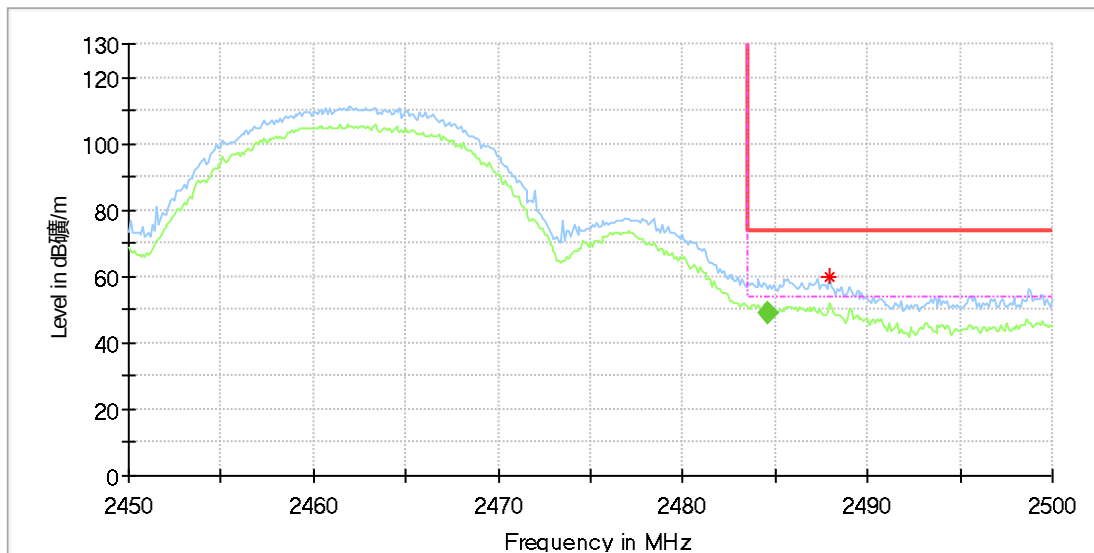
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2487.900000	59.79	---	74.00	14.21	150.0	H	342.0	7.4

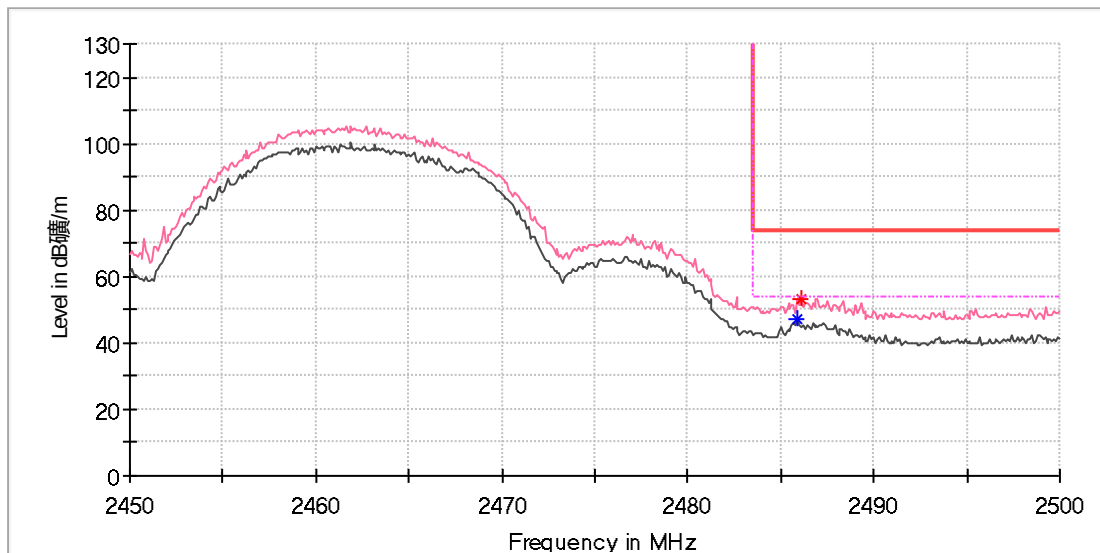
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.540700	48.70	54.00	5.30	145.0	H	311.0	7.4

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2485.900000	---	46.89	54.00	7.11	150.0	V	263.0	7.4
2486.100000	53.44	---	74.00	20.56	150.0	V	272.0	7.4

Final Result

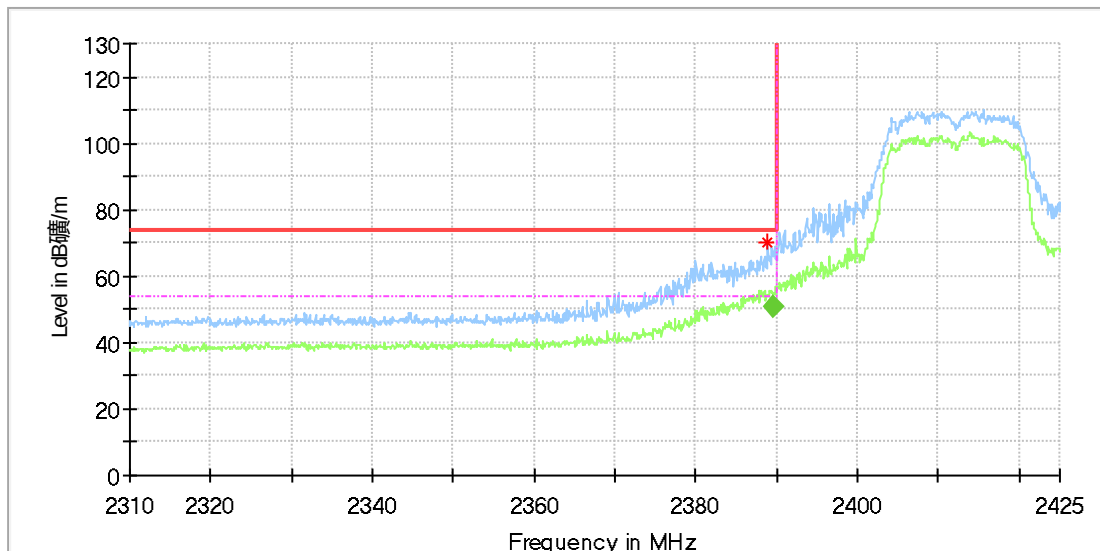
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 802.11 g mode, 6 Mbps

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2388.800000	70.23	---	74.00	3.77	150.0	H	328.0	7.0

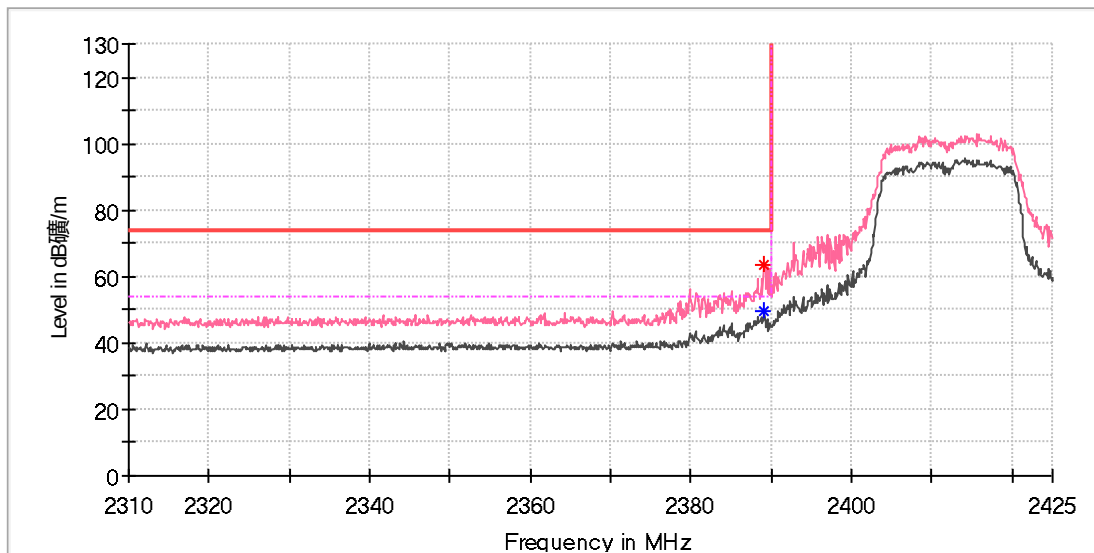
Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.532300	50.59	54.00	3.41	145.0	H	303.0	7.0

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2389.100000	63.78	---	74.00	10.22	150.0	V	203.0	7.0
2389.100000	---	49.49	54.00	4.51	150.0	V	203.0	7.0

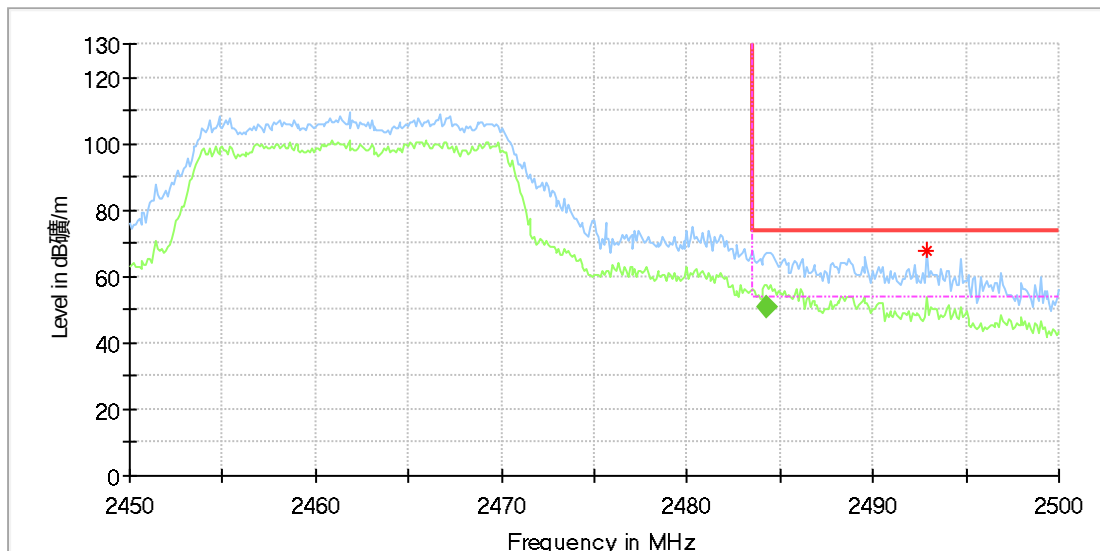
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2492.900000	67.64	---	74.00	6.36	150.0	H	353.0	7.4

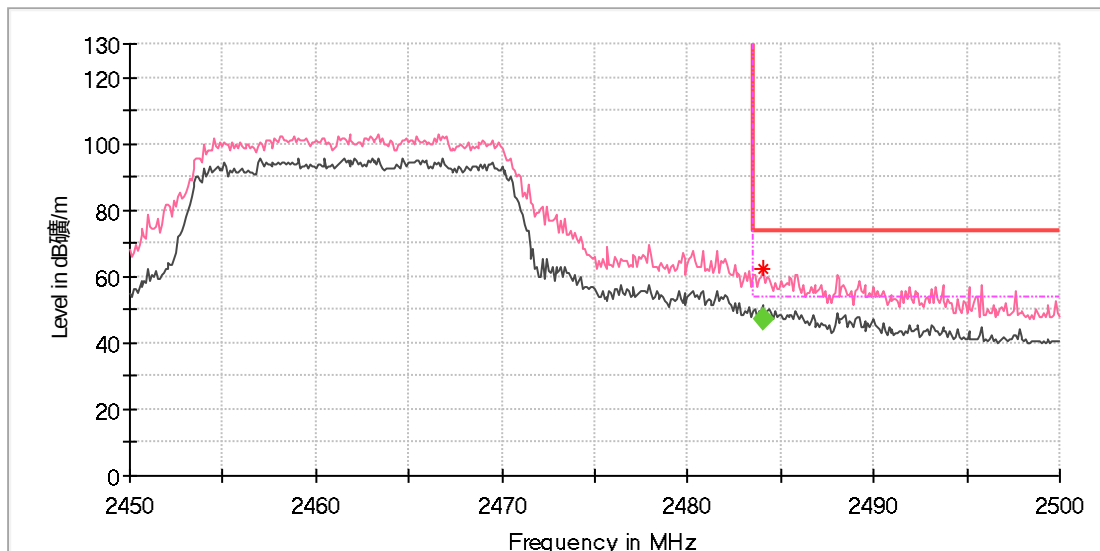
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.288450	50.91	54.00	3.09	145.0	H	348.0	7.4

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2484.000000	62.54	---	74.00	11.46	150.0	V	225.0	7.4

Final Result

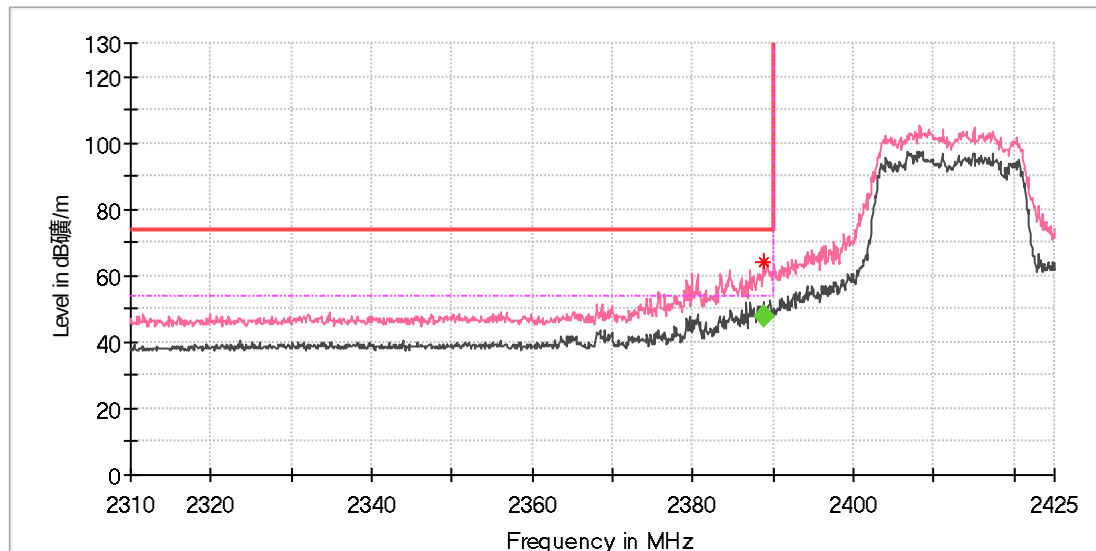
Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.058700	47.24	54.00	6.76	145.0	V	220.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2388.700000	64.00	---	74.00	10.00	150.0	V	143.0	7.0

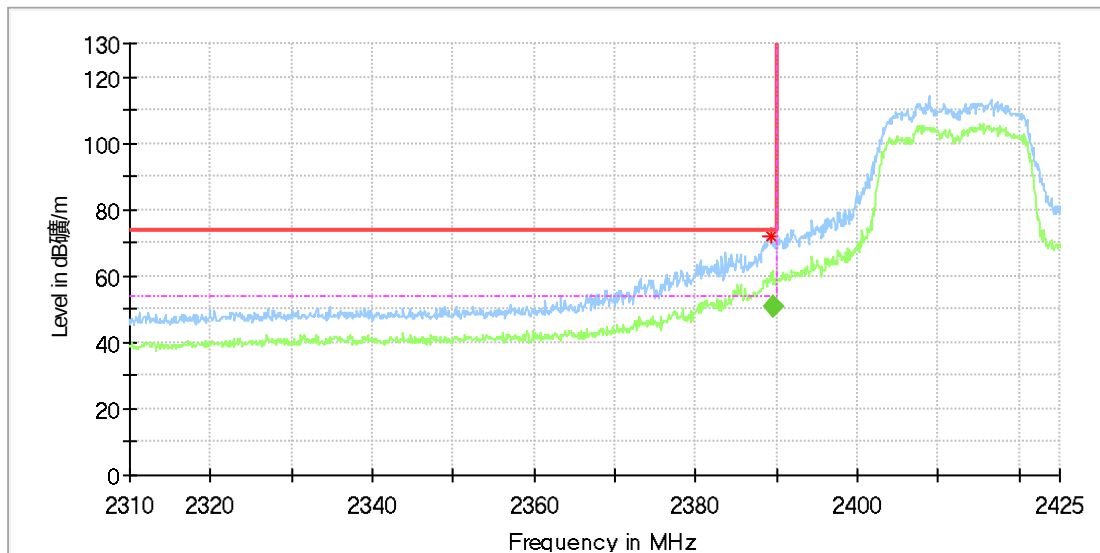
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.900800	47.82	54.00	6.18	147.0	V	141.0	7.0

Test Report

EUT Information

EUT Name: Rokid Station
Model: RES102
Test Mode: WIFI 2.4G_11n20_Ch1
Order No/Sample No: 168429121/A003488166-001
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
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)
2389.200000	71.91	---	74.00	2.09	150.0	H	174.0	7.0

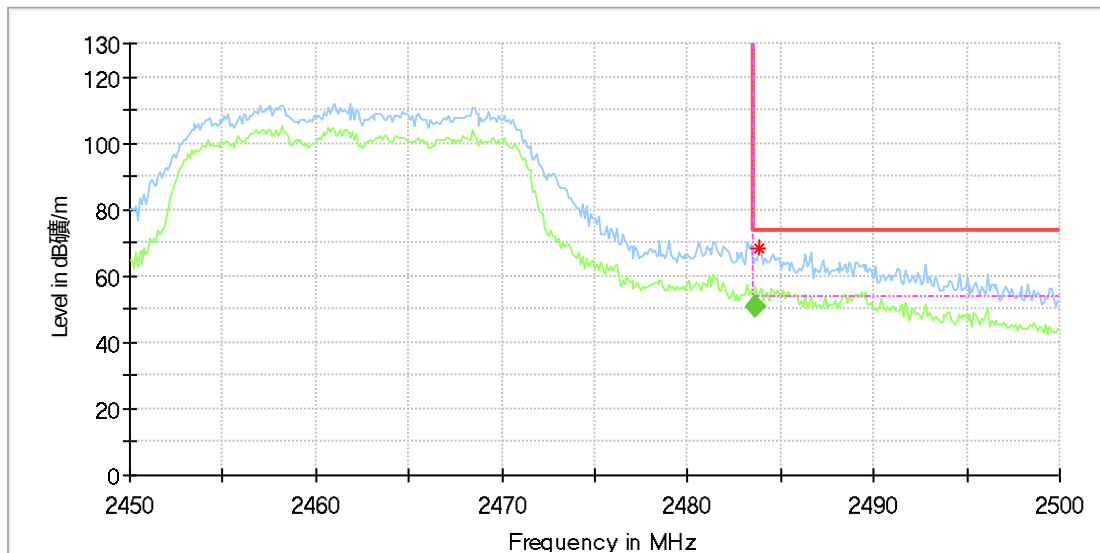
Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.512350	50.93	54.00	3.07	147.0	H	169.0	7.0

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2483.800000	68.50	---	74.00	5.50	150.0	H	0.0	7.4

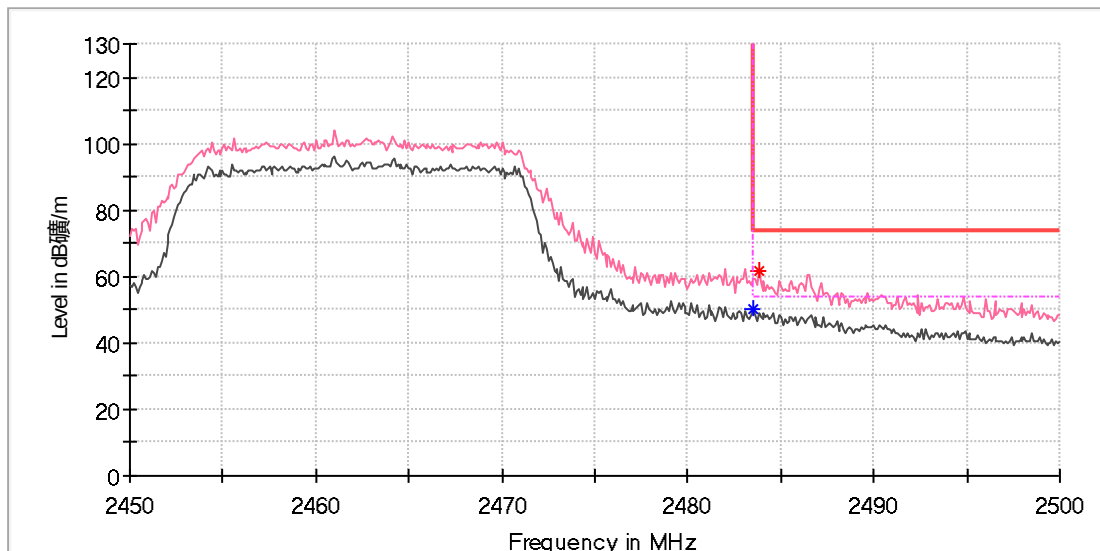
Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.594950	50.50	54.00	3.50	147.0	H	349.0	7.4

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2483.500000	---	49.98	54.00	4.02	150.0	V	264.0	7.4
2483.800000	61.55	---	74.00	12.45	150.0	V	264.0	7.4

Final Result

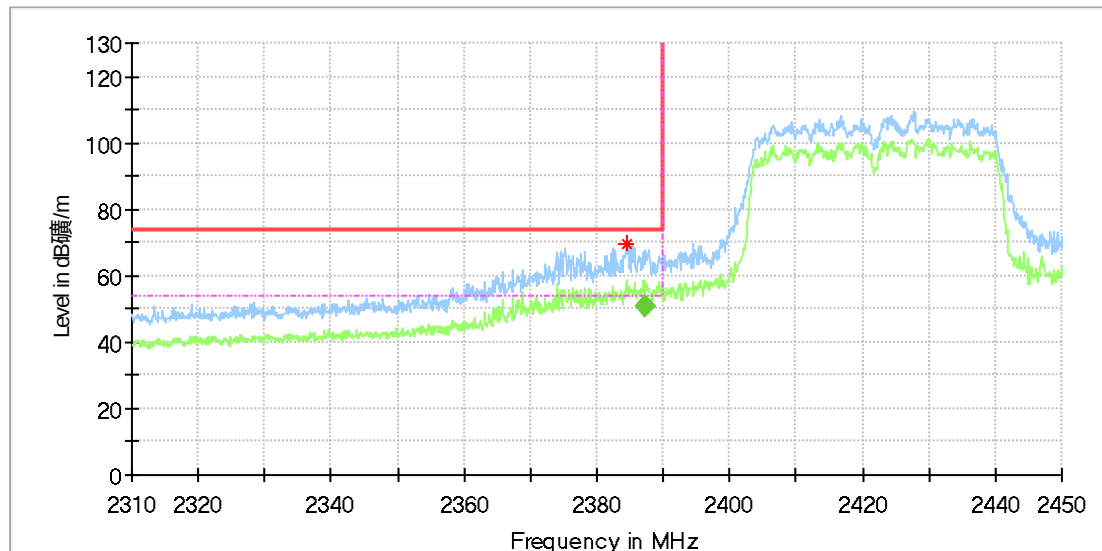
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 802.11 n(HT40) mode, MCS0

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2384.400000	69.40	---	74.00	4.60	150.0	H	200.0	7.0

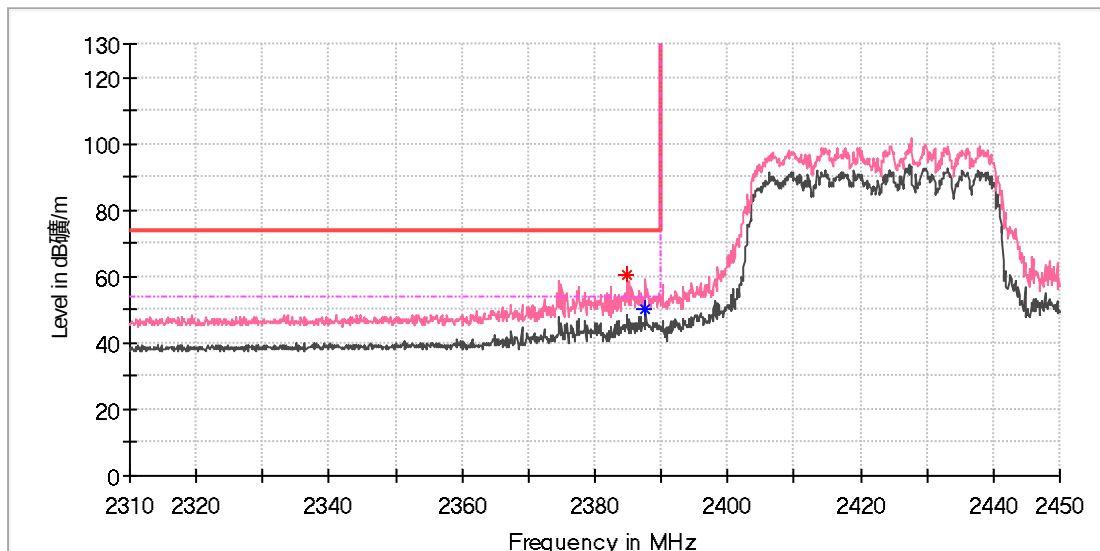
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.102600	50.69	54.00	3.31	145.0	H	-1.0	7.0

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2384.800000	60.39	---	74.00	13.61	150.0	V	120.0	7.0
2387.600000	---	50.30	54.00	3.70	150.0	V	149.0	7.0

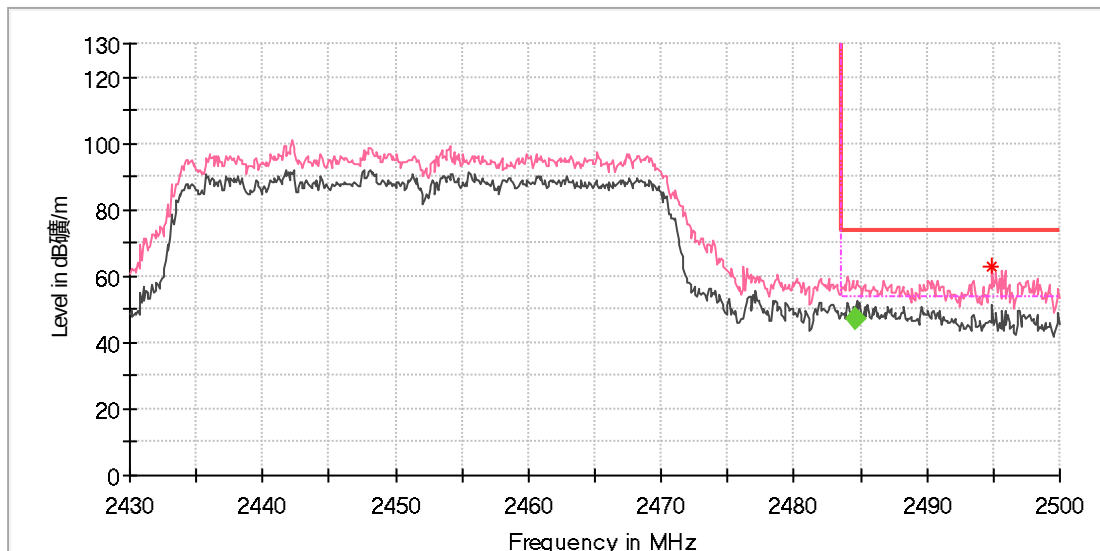
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name: Rokid Station
Model: RES102
Test Mode: WIFI 2.4G_11n40_Ch9
Order No/Sample No: 168429121/A003488166-001
Test Voltage:: Battery
Remark: Temp 24 Humi:50%
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)
2494.900000	63.04	---	74.00	10.96	150.0	V	132.0	7.4

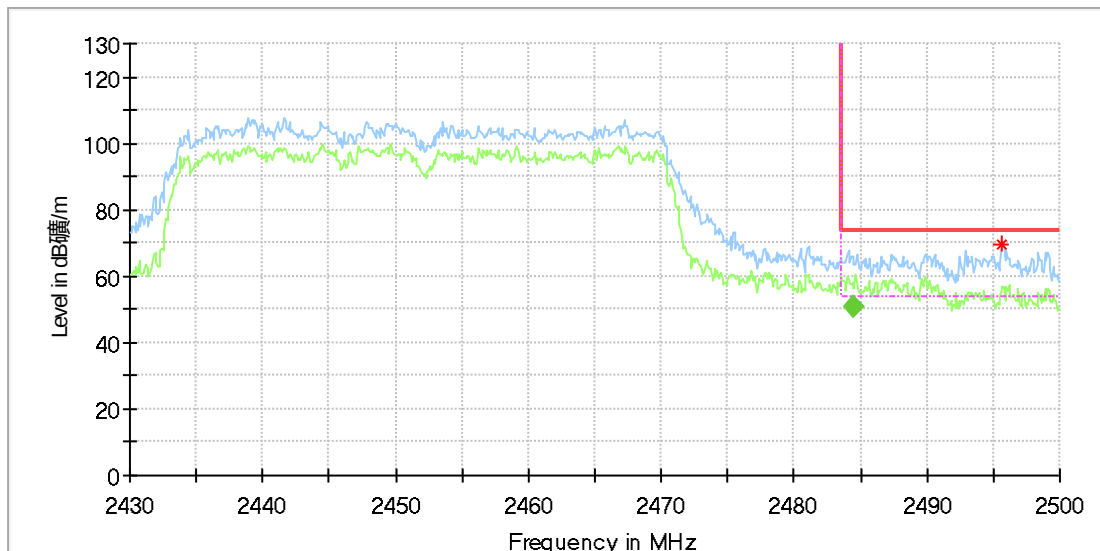
Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.570900	47.42	54.00	6.58	147.0	V	220.0	7.4

Test Report

EUT Information

EUT Name:	Rokid Station
Model:	RES102
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168429121/A003488166-001
Test Voltage::	Battery
Remark:	Temp 24 Humi:50%
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)
2495.700000	69.73	---	74.00	4.27	150.0	H	0.0	7.4

Final_Result

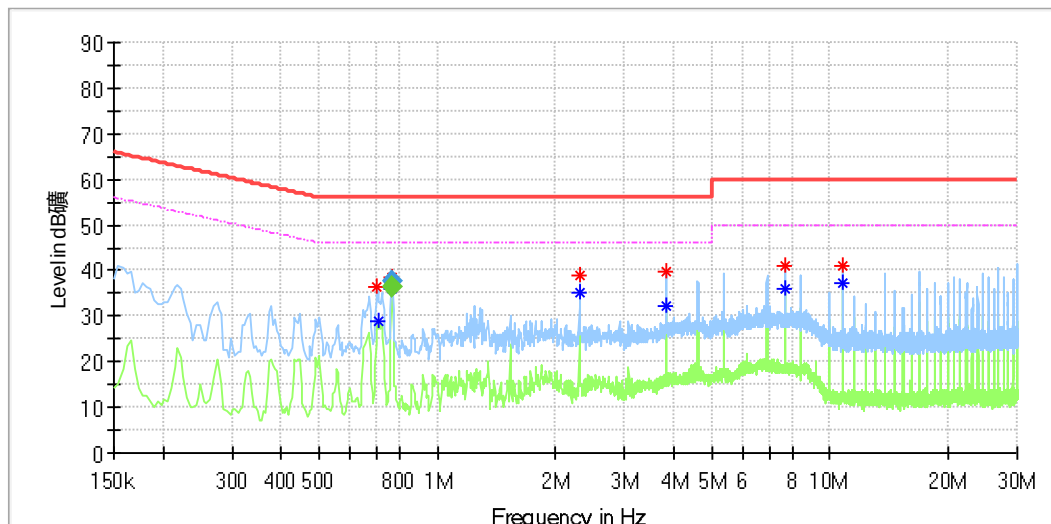
Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.433400	50.94	54.00	3.06	147.0	H	308.0	7.4

1.10 Appendix J: Conducted Emissions

Test Report

EUT Information

EUT Name: Rokid Staion
Order Number: 168429121
Model: RES102
Test Mode: Operating mode(Wi-Fi+BT5.0, 2.4G+5G)
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15.207
Test By:/Review By: Charlie Zha / Gary Chen
Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.702000	36.29	---	56.00	19.71	L1	10.0
0.706000	---	28.94	46.00	17.06	L1	10.0
0.769500	---	36.08	46.00	9.92	L1	10.0
0.769500	38.56	---	56.00	17.44	L1	10.0
2.306000	---	35.02	46.00	10.98	L1	10.2
2.306000	38.86	---	56.00	17.14	L1	10.2
3.842000	39.67	---	56.00	16.33	L1	10.2
3.842000	---	32.41	46.00	13.59	L1	10.2
7.678000	---	36.15	50.00	13.85	L1	10.3
7.678000	41.17	---	60.00	18.83	L1	10.3
10.754000	---	37.26	50.00	12.74	L1	10.3
10.754000	41.18	---	60.00	18.82	L1	10.3

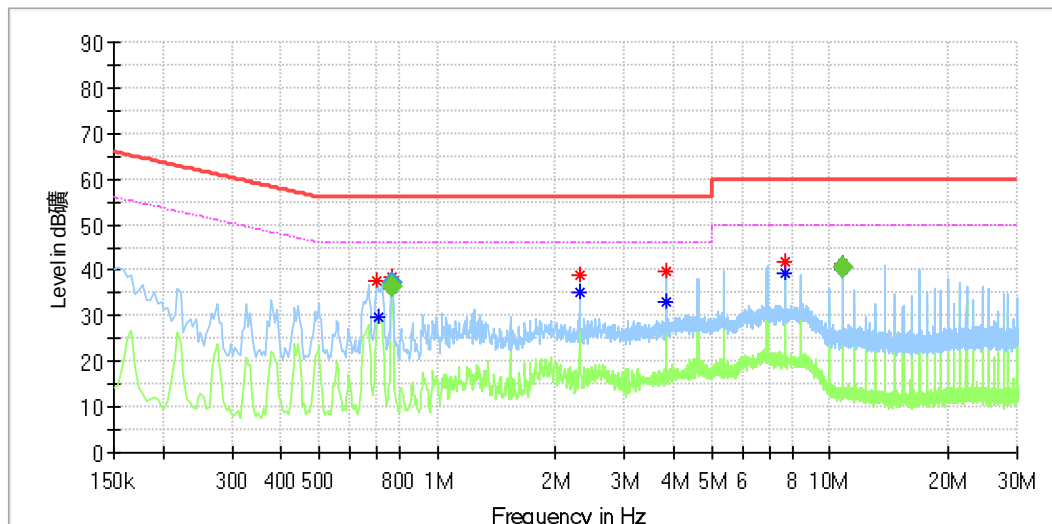
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.769500	---	36.53	46.00	9.47	1000.0	9.000	L1	10.0
0.769500	37.50	---	56.00	18.50	1000.0	9.000	L1	10.0

Test Report

EUT Information

EUT Name: Rokid Staion
Order Number: 168429121
Model: RES102
Test Mode: Operating mode (Wi-Fi+BT5.0, 2.4G+5G)
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15.207
Test By./Review By: Charlie Zha / Gary Chen
Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.702000	37.51	---	56.00	18.49	N	9.8
0.706000	---	29.54	46.00	16.46	N	9.8
0.769500	---	35.81	46.00	10.19	N	9.8
0.769500	38.47	---	56.00	17.53	N	9.8
2.306000	39.04	---	56.00	16.96	N	9.9
2.306000	---	35.10	46.00	10.90	N	9.9
3.842000	---	32.96	46.00	13.04	N	9.9
3.842000	39.93	---	56.00	16.07	N	9.9
7.678000	41.69	---	60.00	18.31	N	10.0
7.682000	---	39.38	50.00	10.62	N	10.0
10.753500	41.36	---	60.00	18.64	N	10.0
10.753500	---	40.27	50.00	9.73	N	10.0

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.769500	---	36.55	46.00	9.45	1000.0	9.000	N	9.8
0.769500	37.44	---	56.00	18.56	1000.0	9.000	N	9.8
10.753500	---	40.66	50.00	9.34	1000.0	9.000	N	10.0
10.753500	40.77	---	60.00	19.23	1000.0	9.000	N	10.0