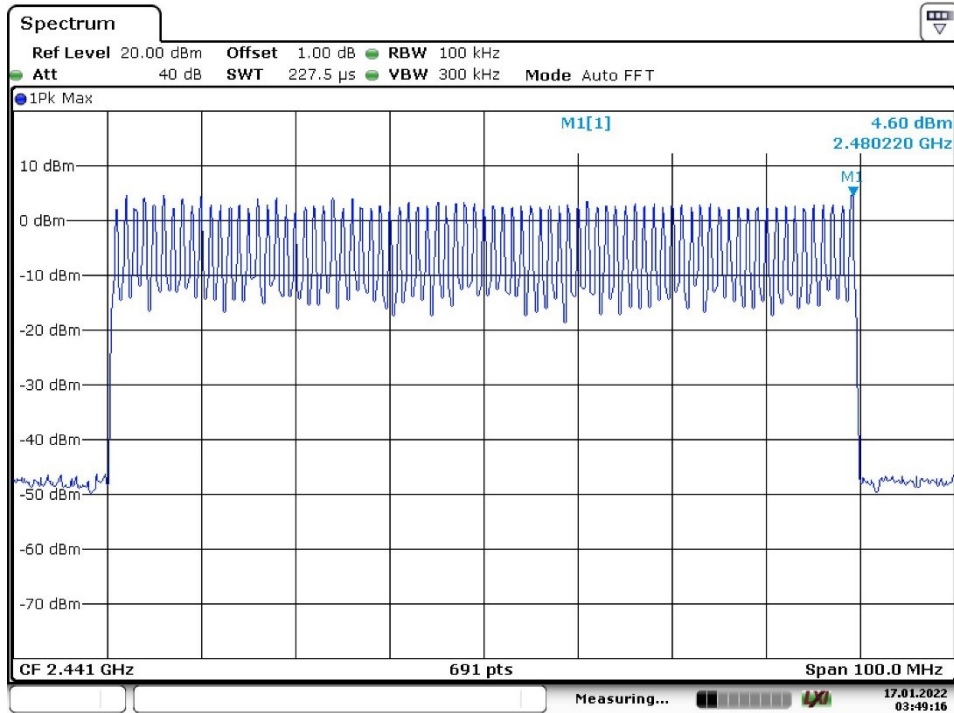
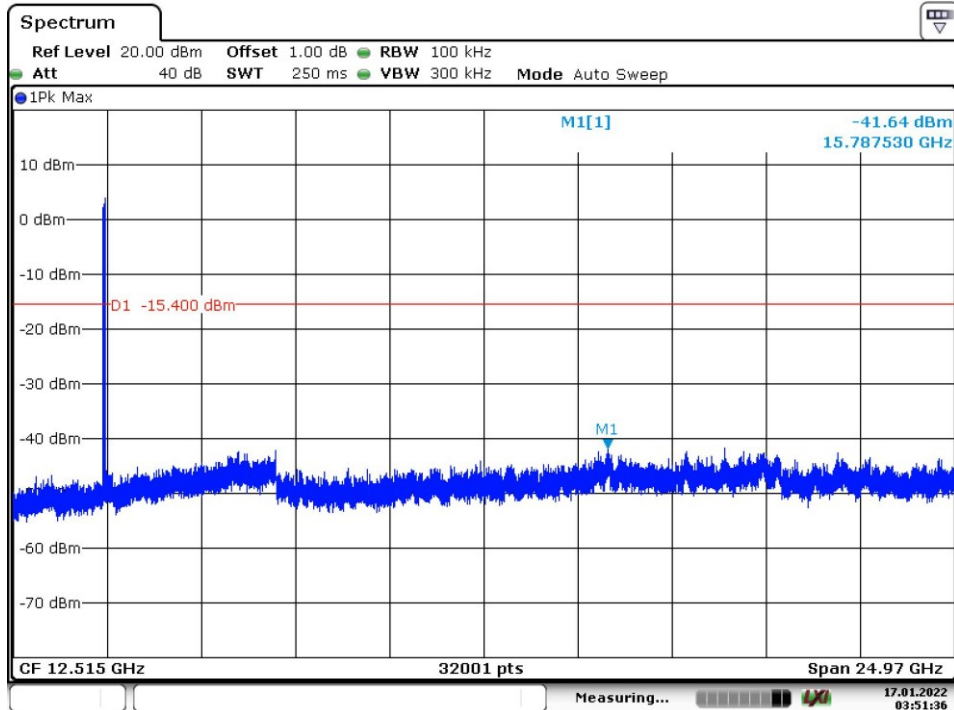


Hopping Mode

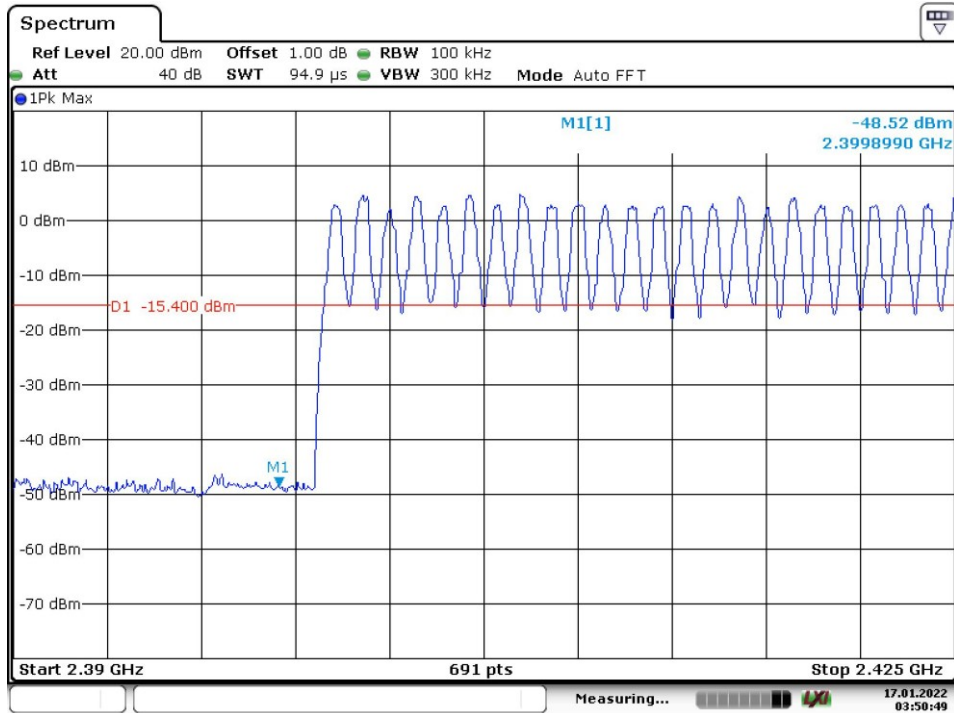


Date: 17.JAN.2022 03:49:16



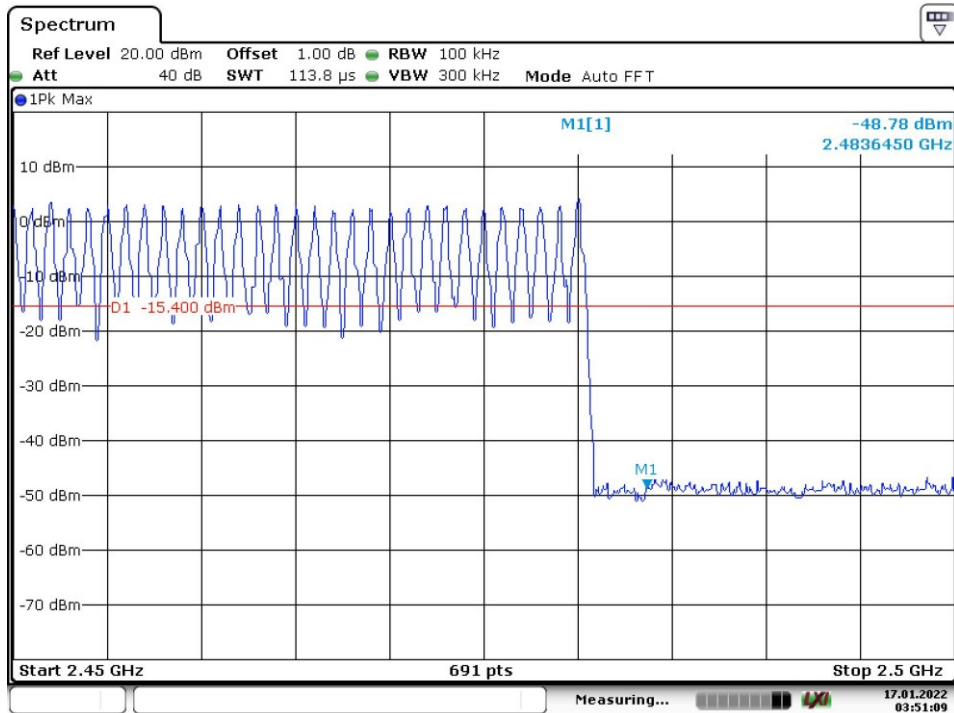
Date: 17.JAN.2022 03:51:36

Band Edge, Hopping Mode, Low Channel



Date: 17.JAN.2022 03:50:49

Band Edge, Hopping Mode, High Channel



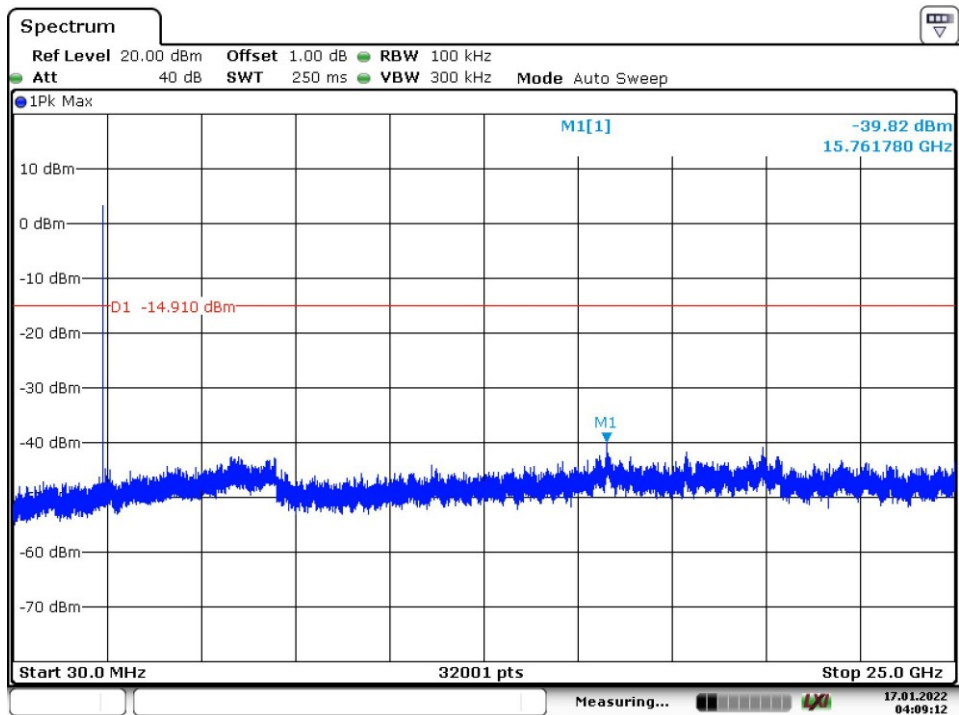
Date: 17.JAN.2022 03:51:09

EDR mode (8DPSK)

Low Channel



Date: 17.JAN.2022 04:07:30

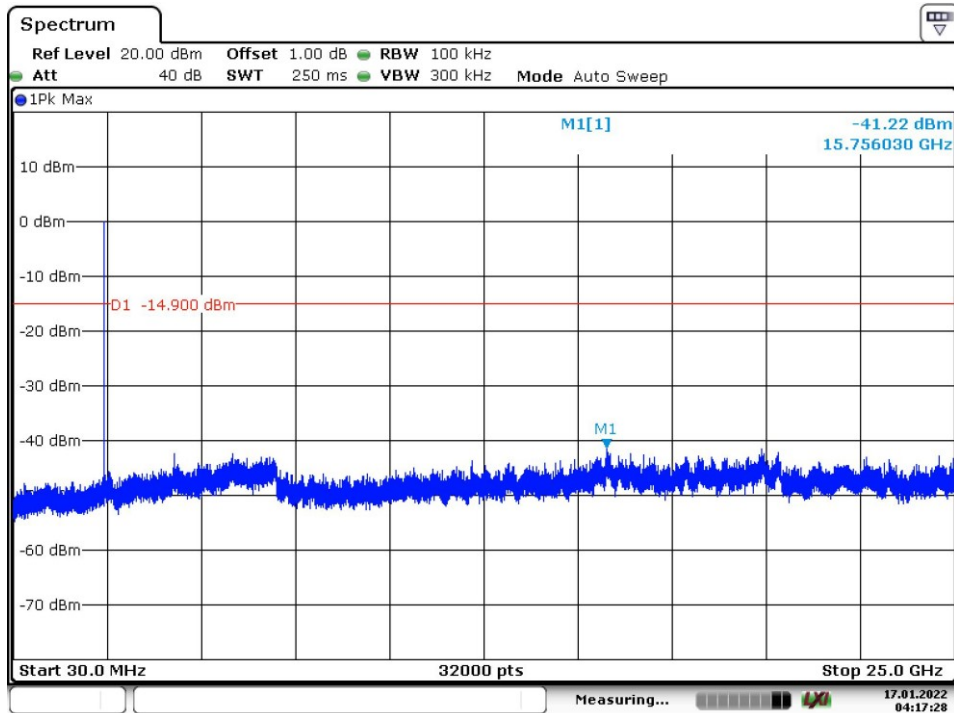


Date: 17.JAN.2022 04:09:12

Middle Channel

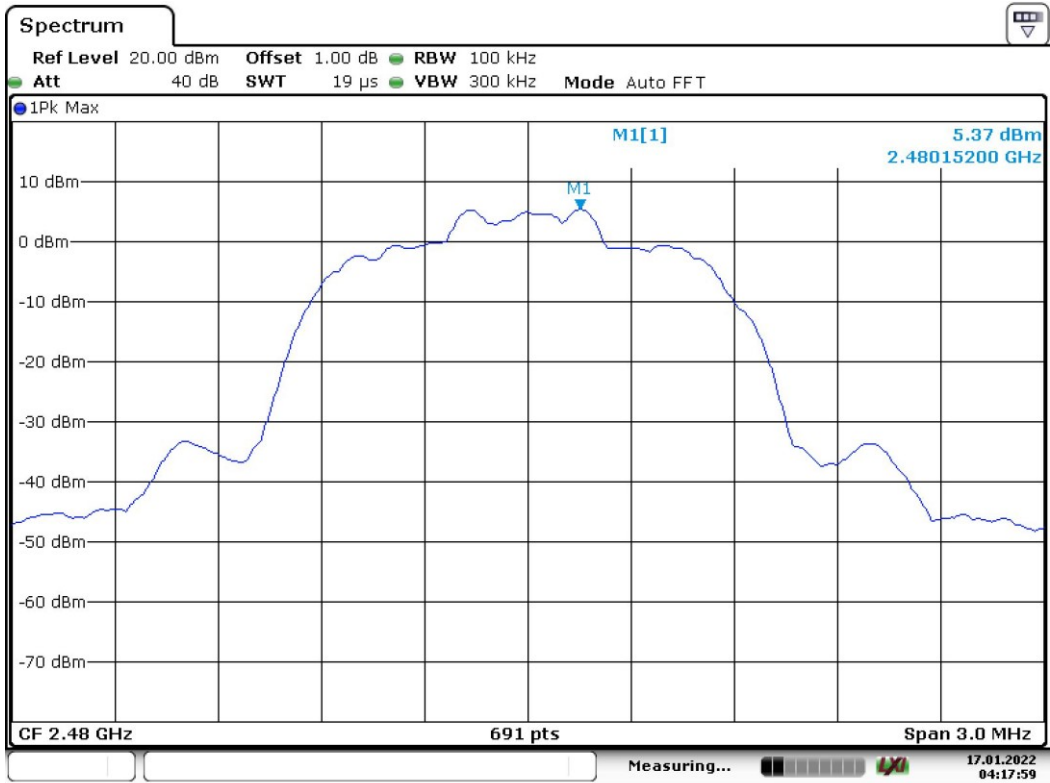


Date: 17.JAN.2022 04:16:58

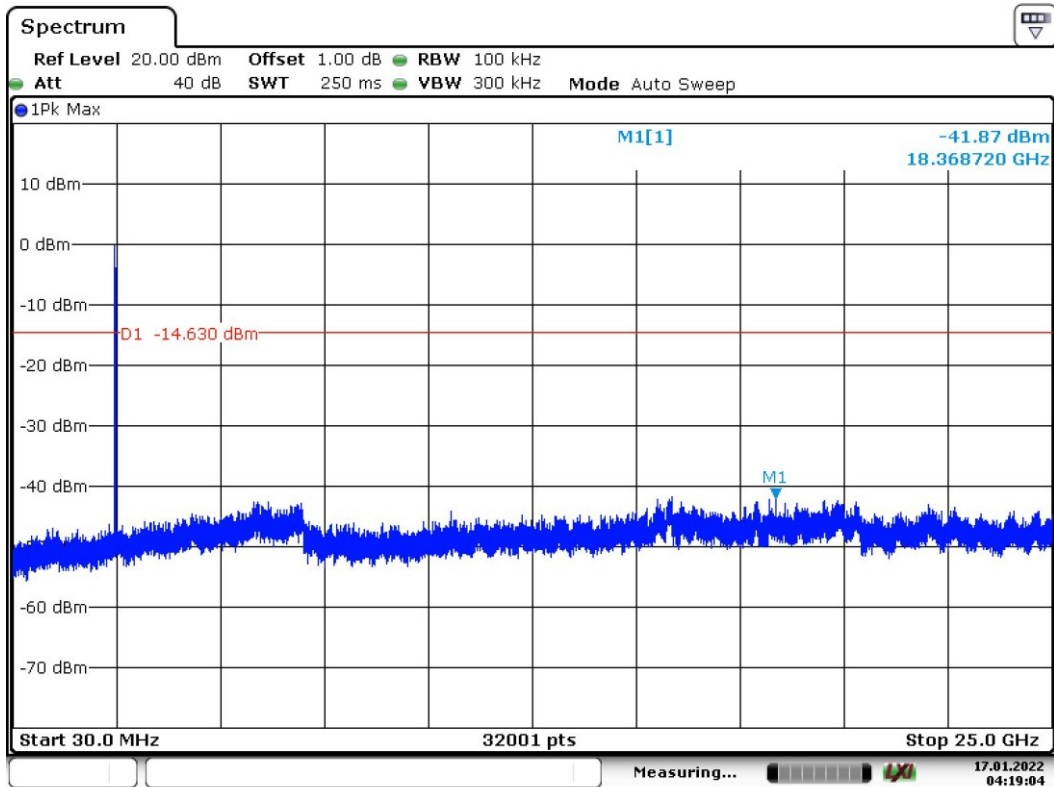


Date: 17.JAN.2022 04:17:28

High Channel

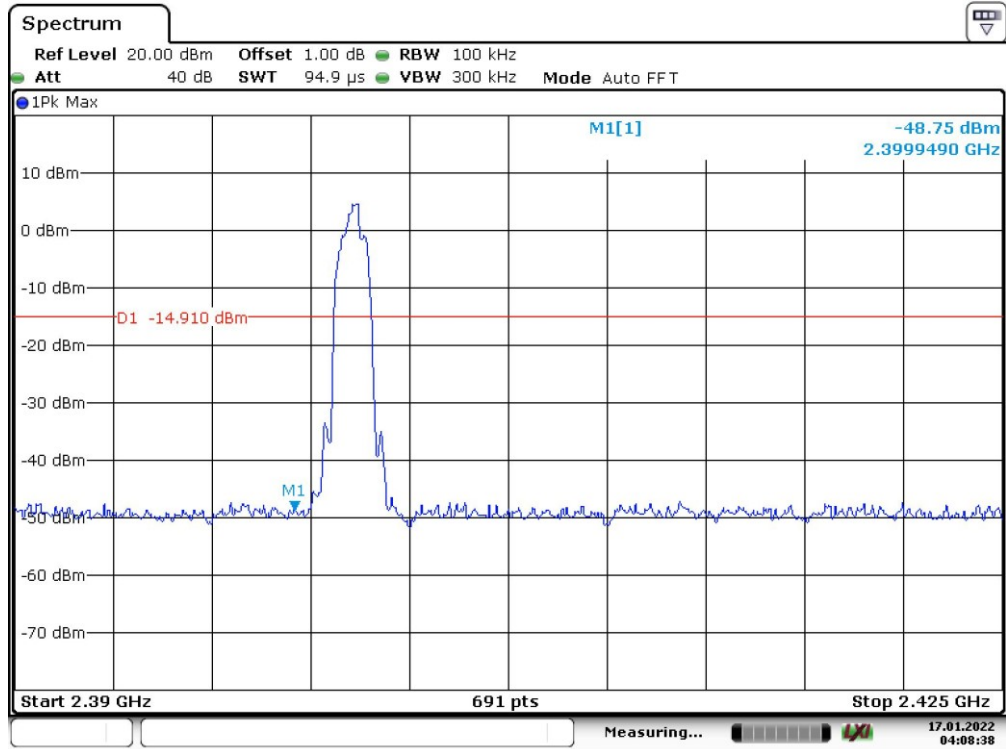


Date: 17.JAN.2022 04:18:00



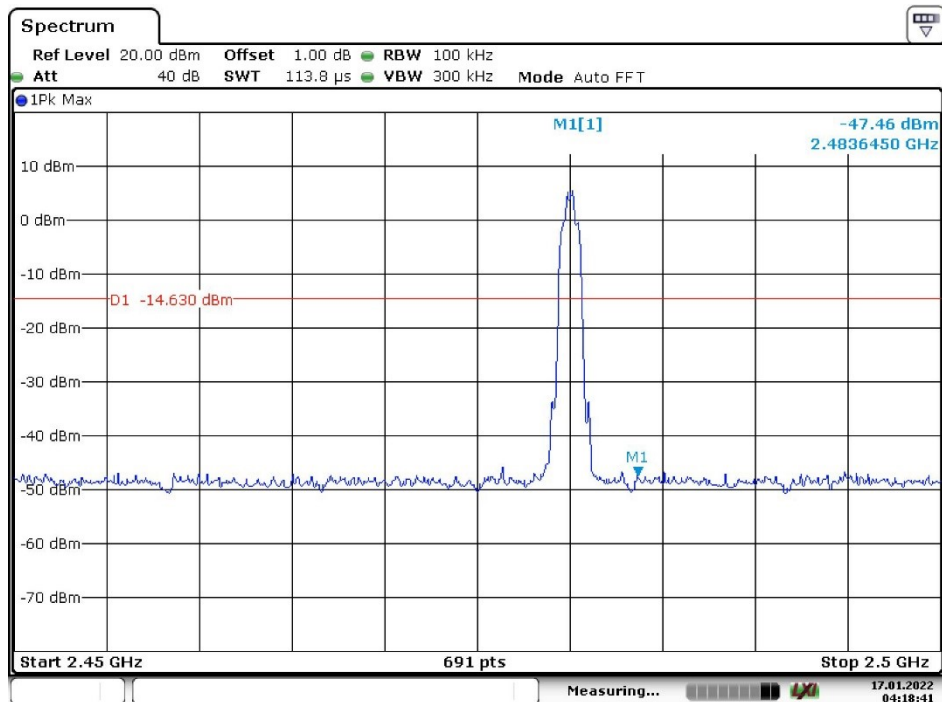
Date: 17.JAN.2022 04:19:04

Band Edge, Low Channel



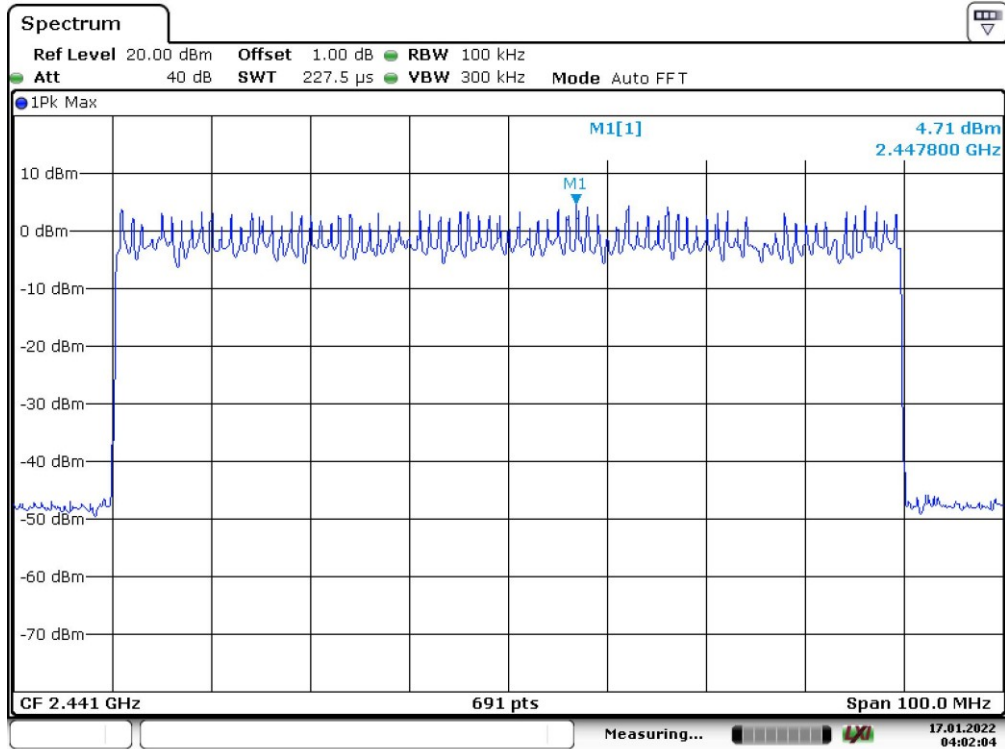
Date: 17.JAN.2022 04:08:38

Band Edge, High Channel

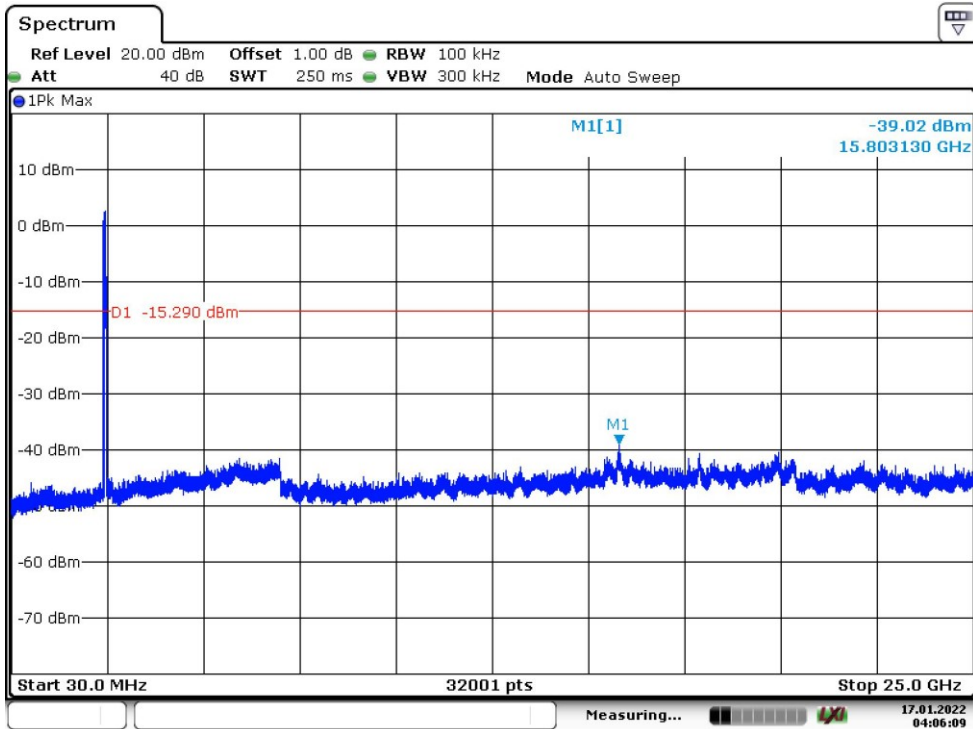


Date: 17.JAN.2022 04:18:42

Hopping Mode

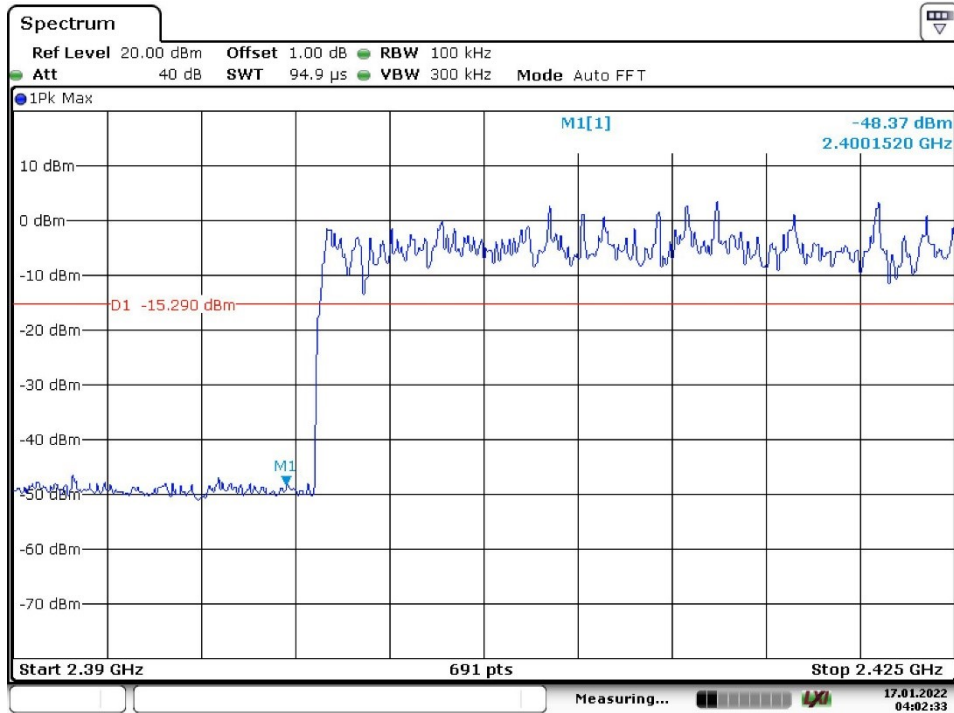


Date: 17.JAN.2022 04:02:05



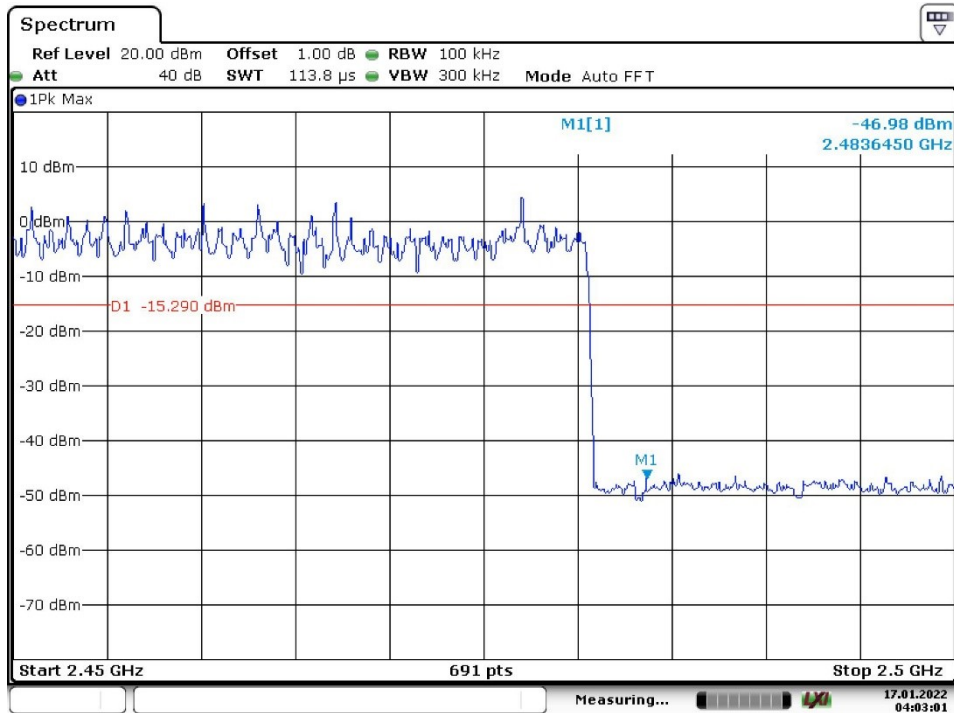
Date: 17.JAN.2022 04:06:10

Band Edge, Hopping Mode, Low Channel



Date: 17.JAN.2022 04:02:34

Band Edge, Hopping Mode, High Channel



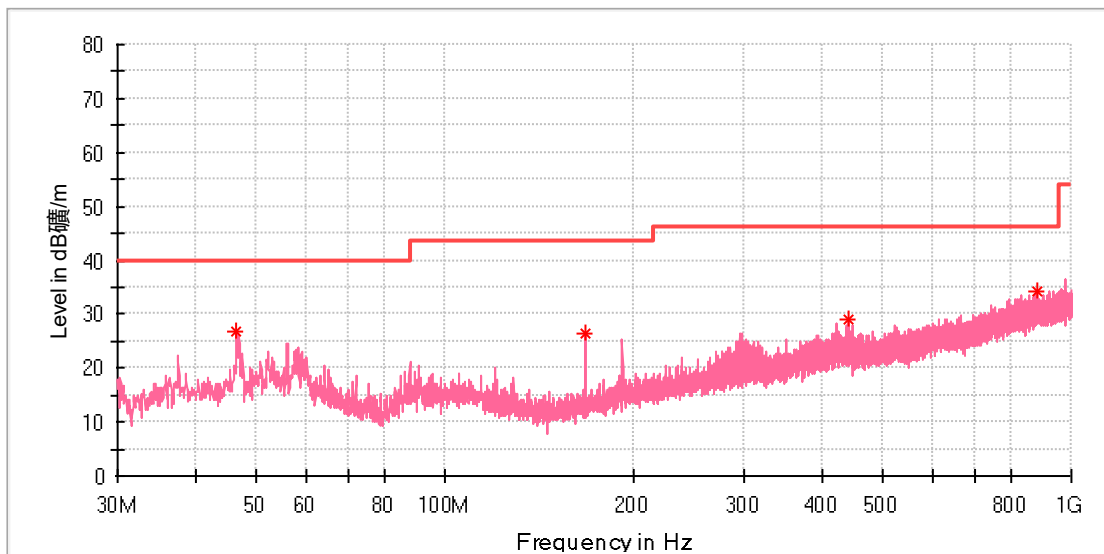
Date: 17.JAN.2022 04:03:01





### EUT Information

EUT Name:	Wireless communication module
Model:	WF-M63B-USD1
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168350093/A003194326-001
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:58%
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)
46.490000	26.92	40.00	13.08	100.0	V	222.0	-18.6
167.982500	26.60	43.50	16.90	100.0	V	320.0	-21.3
439.922000	28.88	46.00	17.12	100.0	V	284.0	-13.2
880.981000	34.35	46.00	11.65	100.0	V	195.0	-5.1

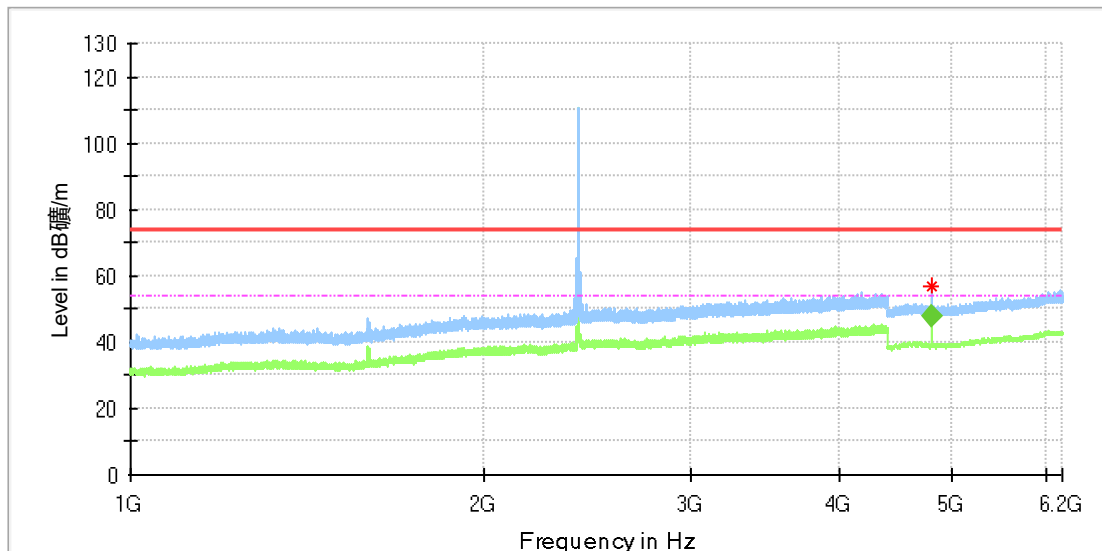
### Final Result

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

Above 1GHz

### EUT Information

EUT Name:	Wireless communication module
Model:	WF-M63B-USD1
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168350093/A003194326-001
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:58%
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	56.62	---	74.00	17.38	100.0	H	280.0	11.8

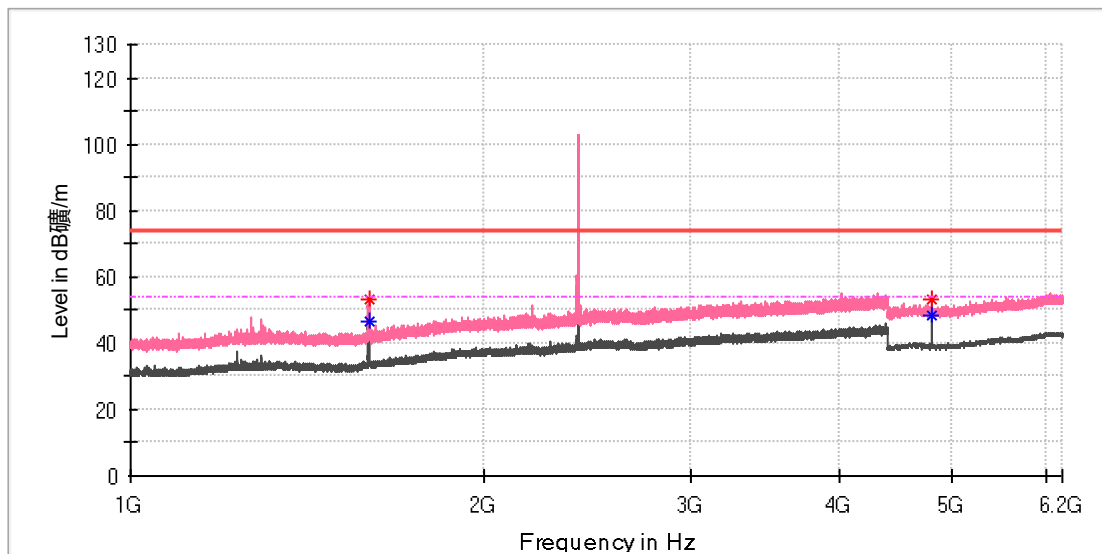
### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.691667	47.58	54.00	6.42	105.0	H	275.0	11.8

Note: the highest emission is the fundamental wave.

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 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)
1594.320000	52.97	---	74.00	21.03	100.0	V	277.0	2.0
1595.510000	---	46.60	54.00	7.40	100.0	V	277.0	2.0
4803.500000	52.94	---	74.00	21.06	100.0	V	208.0	11.8
4803.500000	---	48.26	54.00	5.74	100.0	V	208.0	11.8

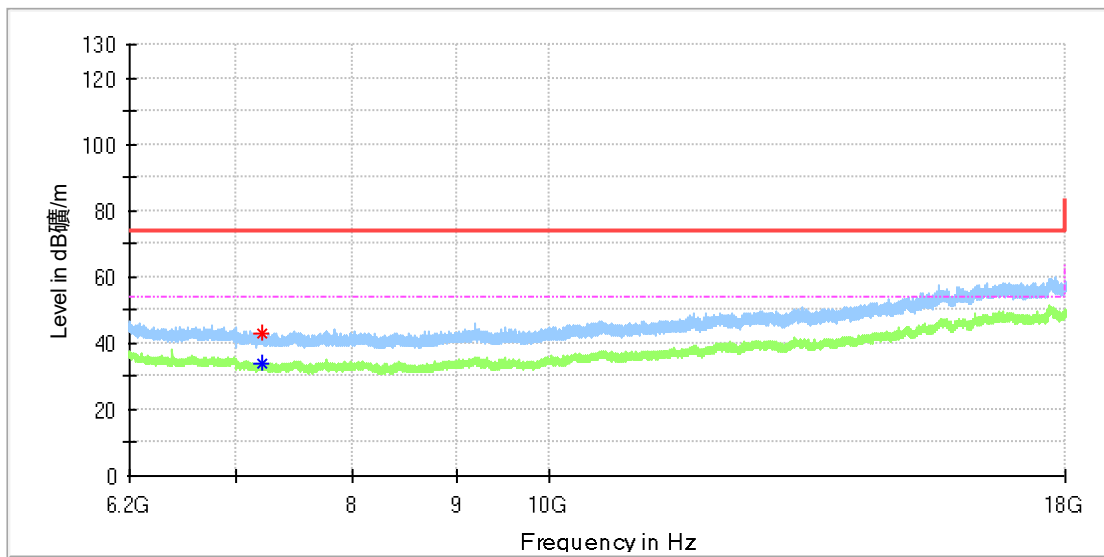
### Final Result

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

Note: the highest emission is the fundamental wave.

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage:: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

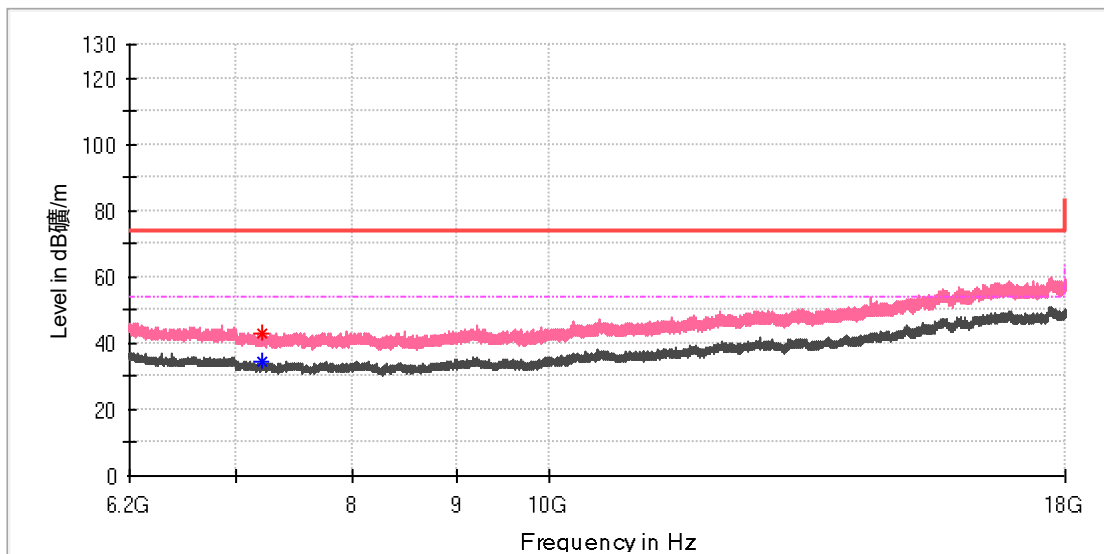
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	34.09	54.00	19.91	100.0	H	118.0	8.8
7216.766667	42.78	---	74.00	31.22	100.0	H	36.0	8.7

### Final Result

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

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

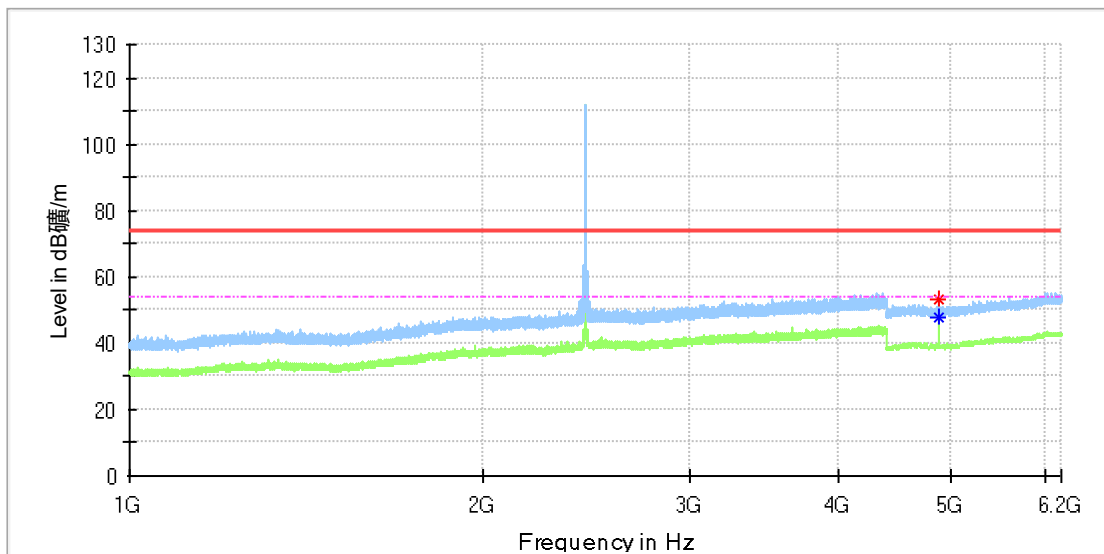
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.000000	42.89	---	74.00	31.11	100.0	V	0.0	8.8
7205.458333	---	34.21	54.00	19.79	100.0	V	239.0	8.8

### Final Result

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

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 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)
4881.500000	---	47.85	54.00	6.15	100.0	H	270.0	11.8
4882.000000	53.20	---	74.00	20.80	100.0	H	270.0	11.8

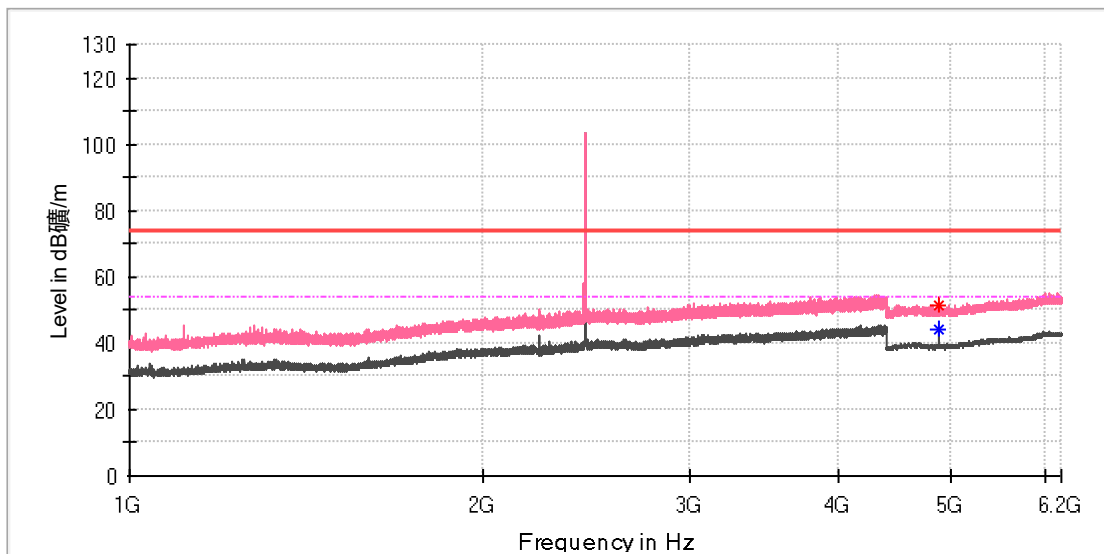
### Final Result

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

Note: the highest emission is the fundamental wave.

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 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)
4881.500000	51.50	---	74.00	22.50	100.0	V	281.0	11.8
4881.500000	---	43.92	54.00	10.08	100.0	V	281.0	11.8

### Final Result

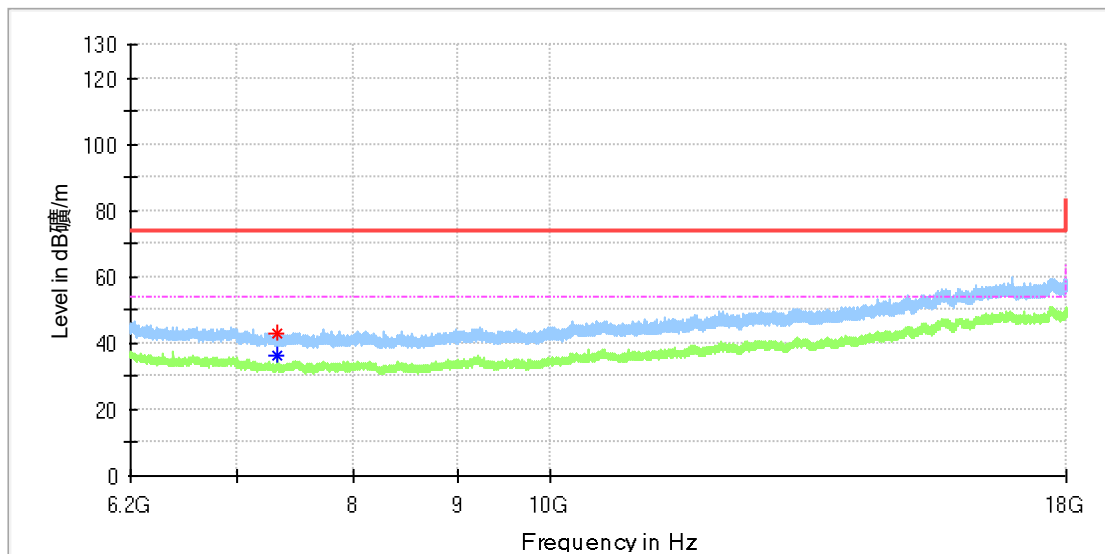
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Note: the highest emission is the fundamental wave.



### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage:: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 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)
7321.983333	43.00	---	74.00	31.00	100.0	H	305.0	8.2
7321.983333	---	36.10	54.00	17.90	100.0	H	305.0	8.2

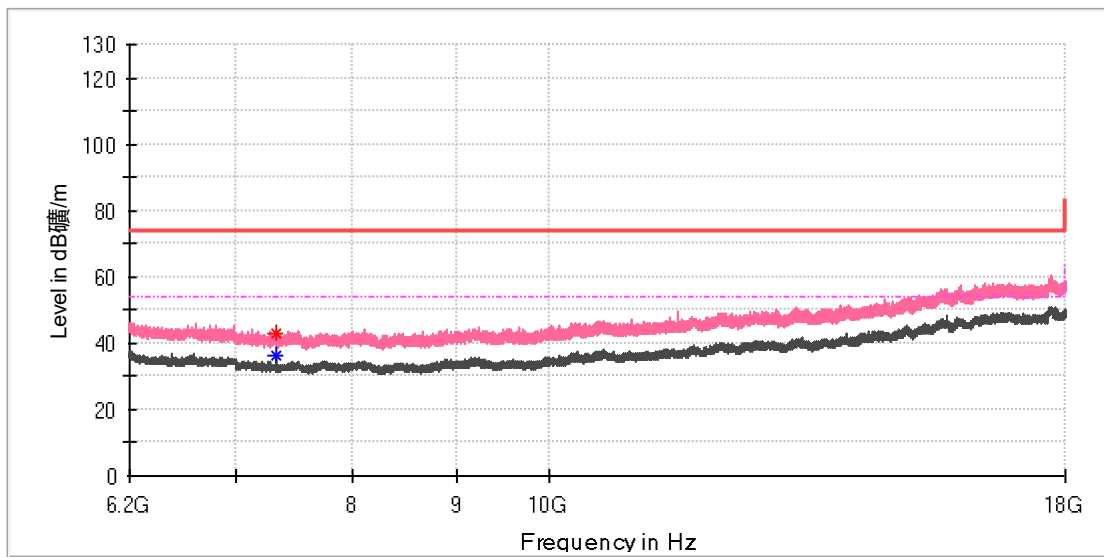
### Final Result

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

Note: the highest emission is the fundamental wave.

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Mid channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

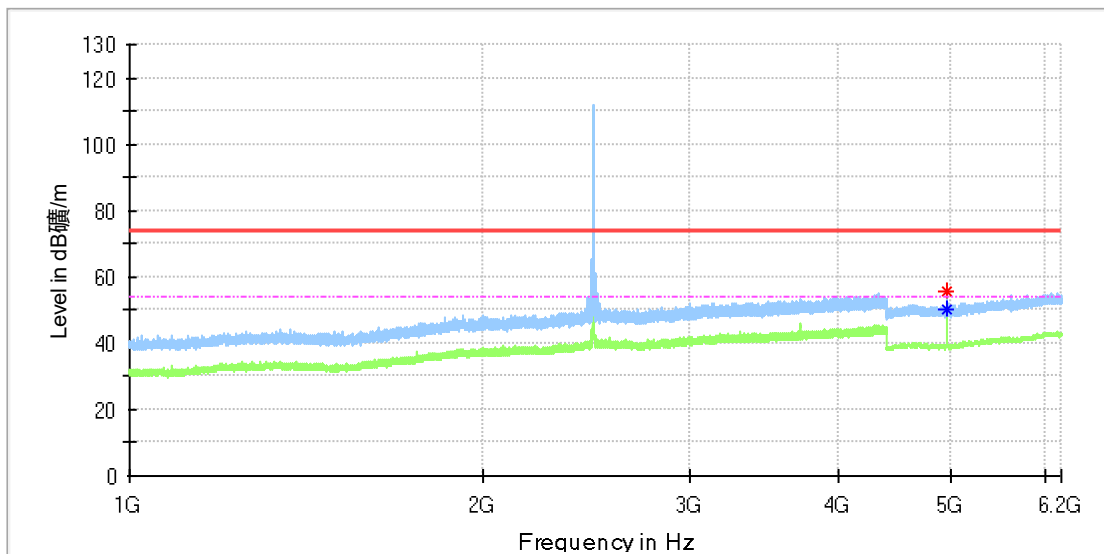
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	42.89	---	74.00	31.11	100.0	V	3.0	8.2
7322.475000	---	36.07	54.00	17.93	100.0	V	3.0	8.2

### Final Result

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

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 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	55.64	---	74.00	18.36	100.0	H	250.0	11.8
4960.000000	---	49.91	54.00	4.09	100.0	H	250.0	11.8

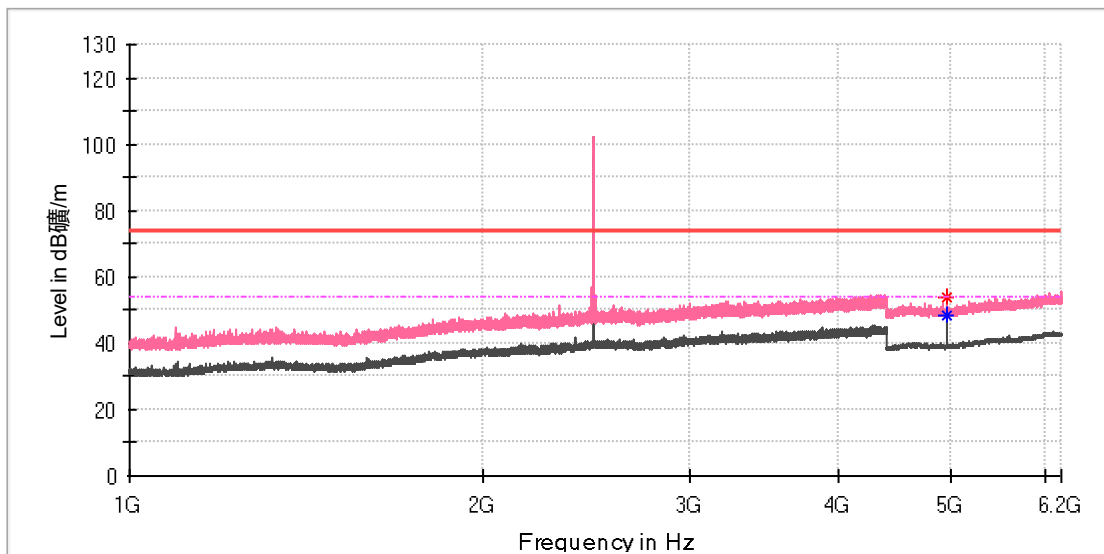
### Final Result

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

Note: the highest emission is the fundamental wave.

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 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)
4959.500000	---	48.47	54.00	5.53	100.0	V	296.0	11.8
4960.000000	53.83	---	74.00	20.17	100.0	V	279.0	11.8

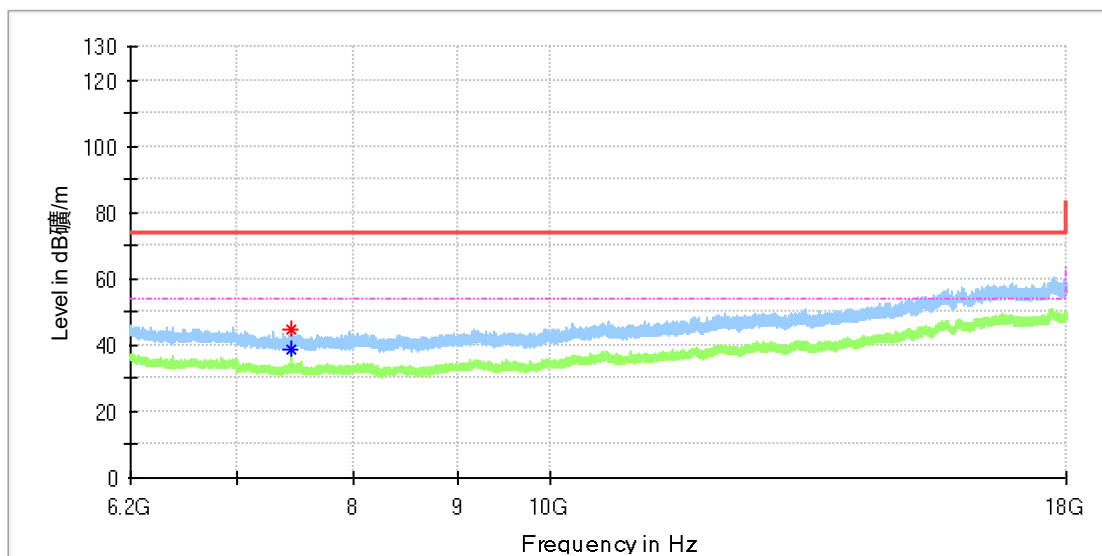
### Final Result

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

Note: the highest emission is the fundamental wave.

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

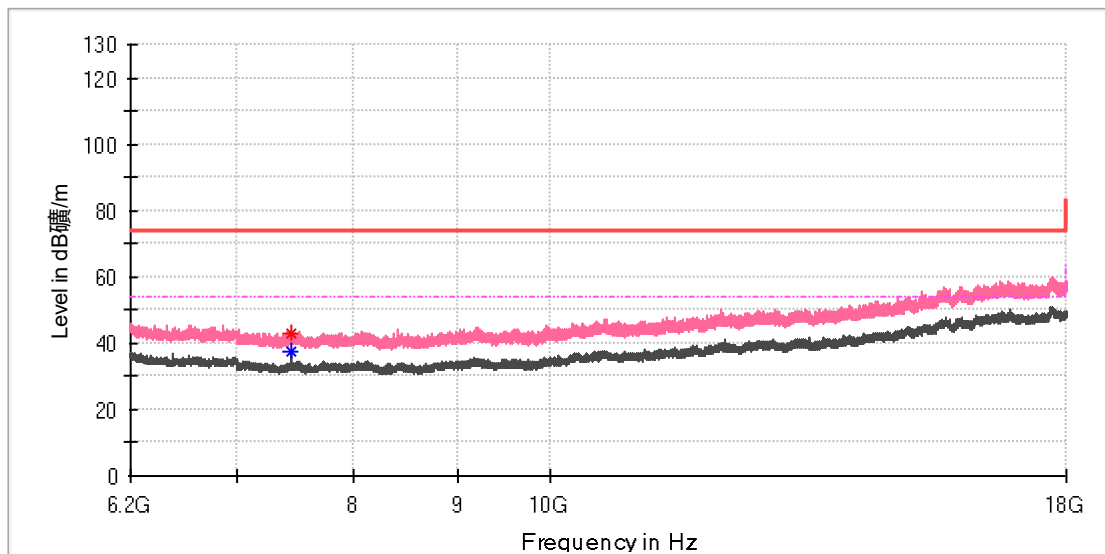
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	44.78	---	74.00	29.22	100.0	H	280.0	8.4
7439.491667	---	38.77	54.00	15.23	100.0	H	280.0	8.4

### Final Result

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

### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_High channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 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)
7439.000000	43.14	---	74.00	30.86	100.0	V	341.0	8.4
7439.491667	---	37.71	54.00	16.29	100.0	V	355.0	8.4

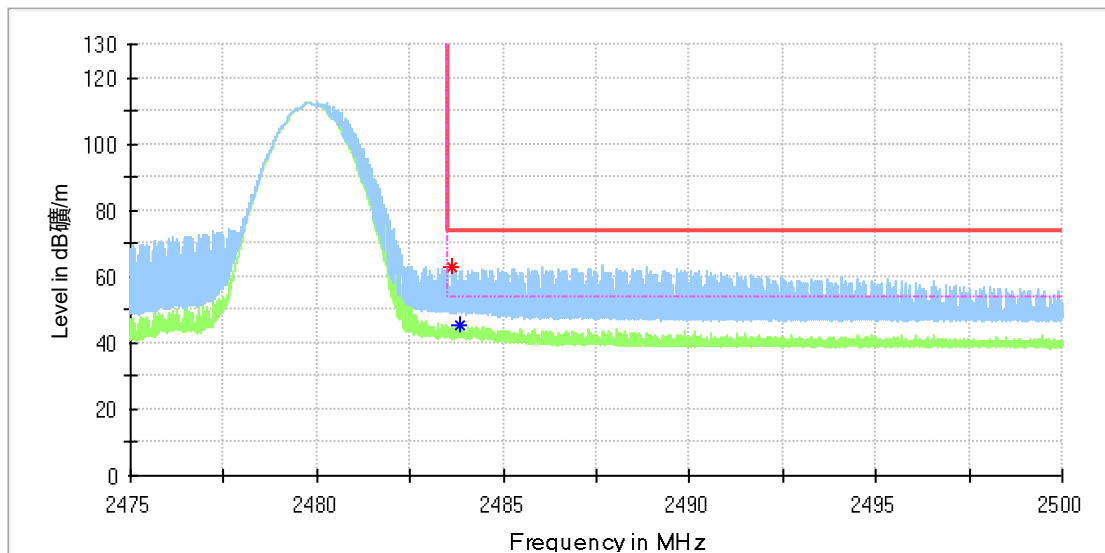
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## Appendix B.8: Test Results of Radiated Emissions in Restricted Bands

### EUT Information

EUT Name:	Wireless communication module
Model:	WF-M63B-USD1
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168350093/A003194326-001
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

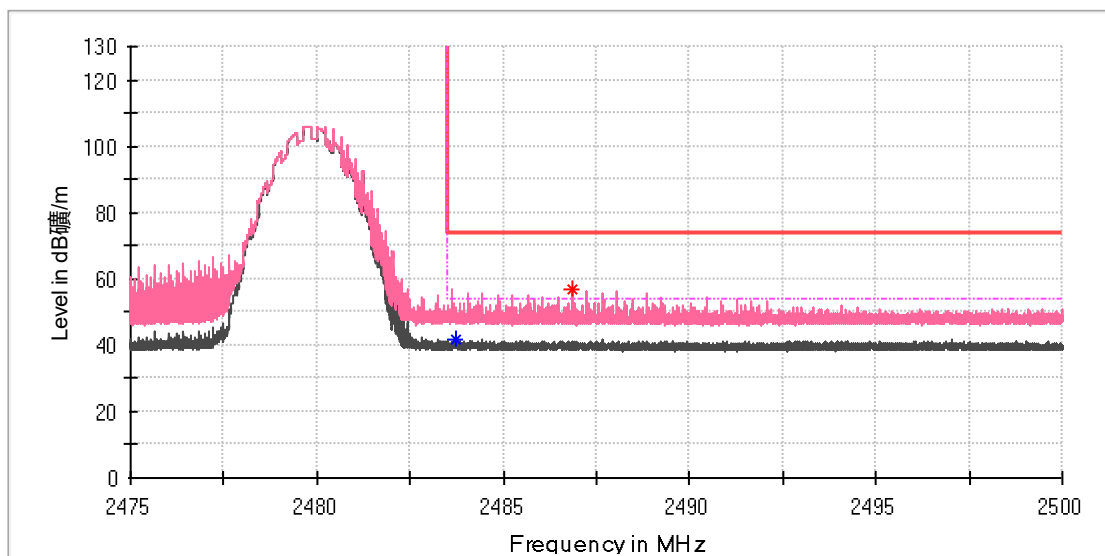
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.646250	62.84	---	74.00	11.16	100.0	H	170.0	7.4
2483.810000	---	45.56	54.00	8.44	100.0	H	17.0	7.4

### Final Result

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

## EUT Information

EUT Name:	Wireless communication module
Model:	WF-M63B-USD1
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168350093/A003194326-001
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
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)
2483.737500	---	41.96	54.00	12.04	100.0	V	245.0	7.4
2486.855000	57.08	---	74.00	16.92	100.0	V	245.0	7.4

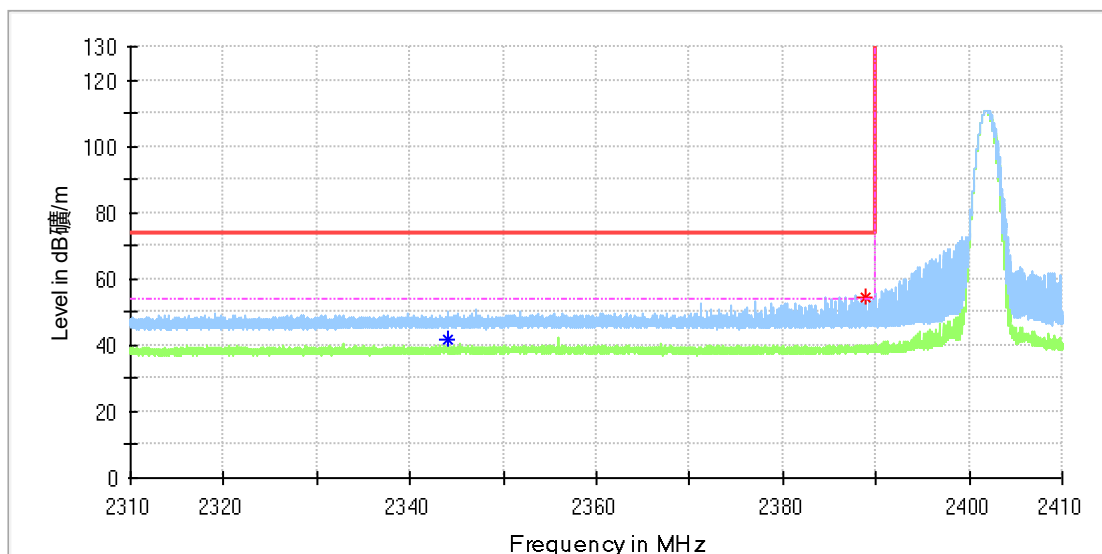
## Final Result

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



### EUT Information

EUT Name: Wireless communication module  
 Model: WF-M63B-USD1  
 Test Mode: BR\_DH5\_Low channel  
 Order No/Sample No: 168350093/A003194326-001  
 Test Voltage:: DC 5V From USB  
 Remark: Temp 23 Humi:58%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical\_Freqs

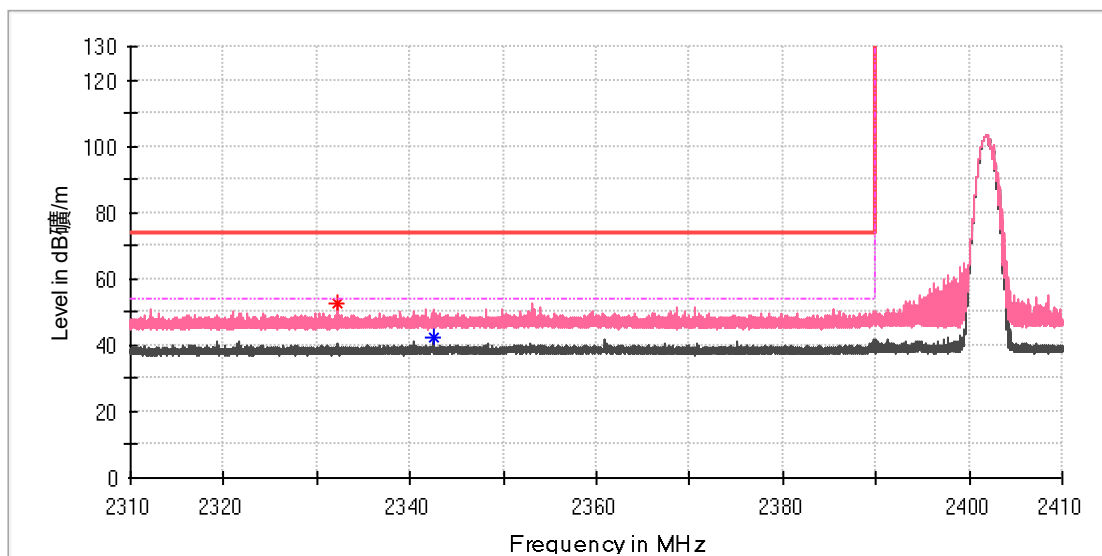
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2344.005000	---	42.02	54.00	11.98	100.0	H	239.0	6.9
2388.915000	54.54	---	74.00	19.46	100.0	H	147.0	7.0

### Final\_Result

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

### EUT Information

EUT Name:	Wireless communication module
Model:	WF-M63B-USD1
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168350093/A003194326-001
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:58%
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)
2332.115000	52.63	---	74.00	21.37	100.0	V	273.0	6.7
2342.440000	---	42.43	54.00	11.57	100.0	V	296.0	6.8

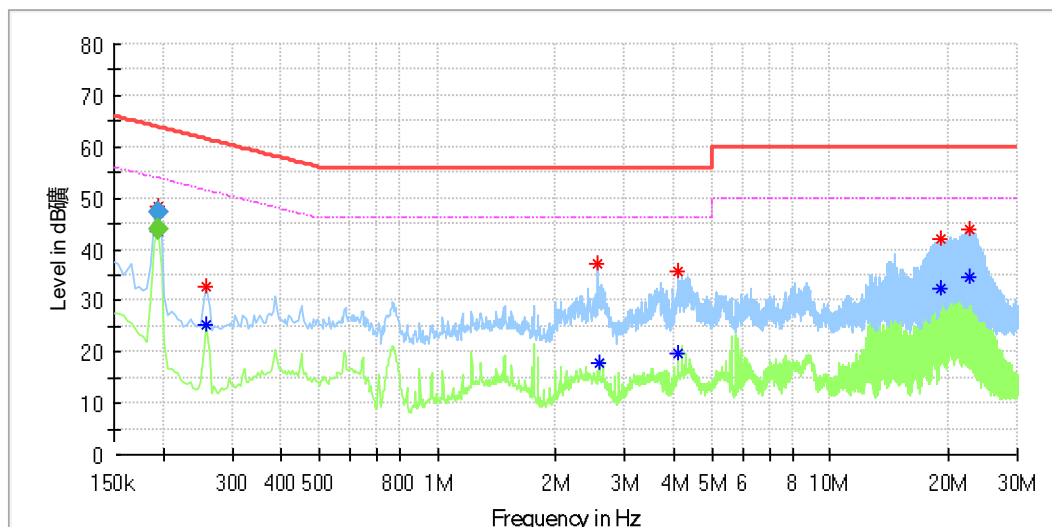
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## Appendix B.9: Test Results of AC Conducted Emissions

### EUT Information

EUT Name:	WiFi Module
Order No:	168350093 20
Model:	WF-M63B-USD1
Test mode:	Simultaneous operating for Wi-Fi and Bluetooth
Test Voltage:	5V DC, from PC port
Test By:	Steve Lan
Review By:	Gary Chen
Remark:	SR2



### Critical Freqs

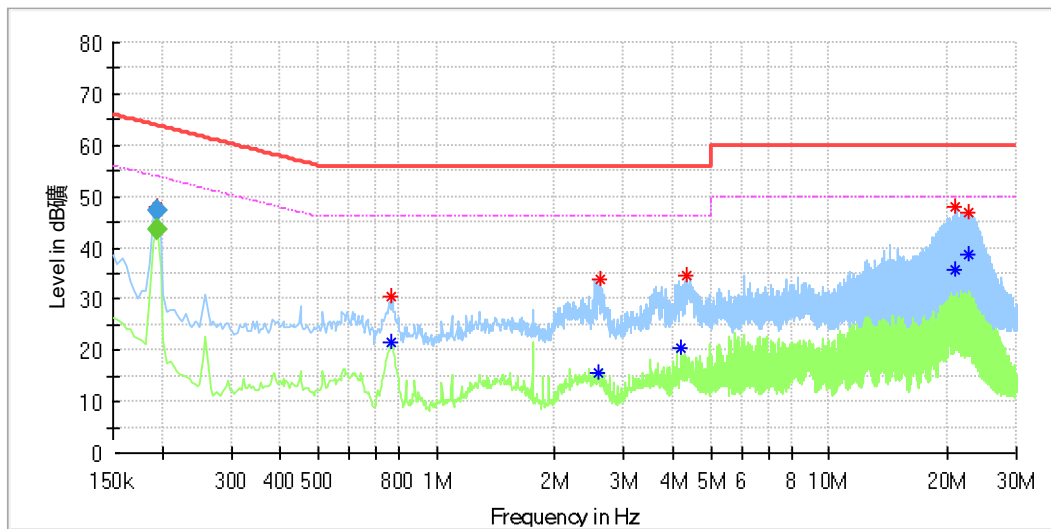
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.193500	48.24	---	63.86	15.62	L1	9.9
0.193500	---	43.56	53.86	10.30	L1	9.9
0.258000	---	25.21	51.50	26.29	L1	9.9
0.258000	32.90	---	61.50	28.60	L1	9.9
2.562000	37.06	---	56.00	18.94	L1	10.2
2.574000	---	18.03	46.00	27.97	L1	10.2
4.094000	---	19.59	46.00	26.41	L1	10.2
4.110000	35.87	---	56.00	20.13	L1	10.2
19.046000	---	32.32	50.00	17.68	L1	10.4
19.046000	42.08	---	60.00	17.92	L1	10.4
22.714000	43.91	---	60.00	16.09	L1	10.4
22.714000	---	34.72	50.00	15.28	L1	10.4

### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.193500	---	43.73	53.89	10.15	1000.0	9.000	L1	9.9
0.193500	47.24	---	63.89	16.64	1000.0	9.000	L1	9.9

## EUT Information

EUT Name:	WiFi Module
Order No:	168350093 20
Model:	WF-M63B-USD1
Test mode:	Simultaneous operating for Wi-Fi and Bluetooth
Test Voltage:	5V DC, from PC port
Test By:	Steve Lan
Review By:	Gary Chen
Remark:	SR2



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.193500	---	43.98	53.86	9.88	N	9.8
0.193500	48.14	---	63.86	15.73	N	9.8
0.770000	---	21.41	46.00	24.59	N	9.8
0.770000	30.63	---	56.00	25.37	N	9.8
2.574000	---	15.79	46.00	30.21	N	9.9
2.598000	34.01	---	56.00	21.99	N	9.9
4.202000	---	20.63	46.00	25.37	N	9.9
4.338000	34.75	---	56.00	21.25	N	9.9
21.010000	47.91	---	60.00	12.09	N	10.3
21.010000	---	35.63	50.00	14.37	N	10.3
22.642000	---	38.55	50.00	11.45	N	10.3
22.642000	46.94	---	60.00	13.06	N	10.3

## Final\_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.193500	---	43.62	53.89	10.27	1000.0	9.000	N	9.8
0.193500	47.12	---	63.89	16.76	1000.0	9.000	N	9.8