

FCC PART15C(30MHz-1000MHz)



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Job No.: LGW2018 #1853

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2402MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyild Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

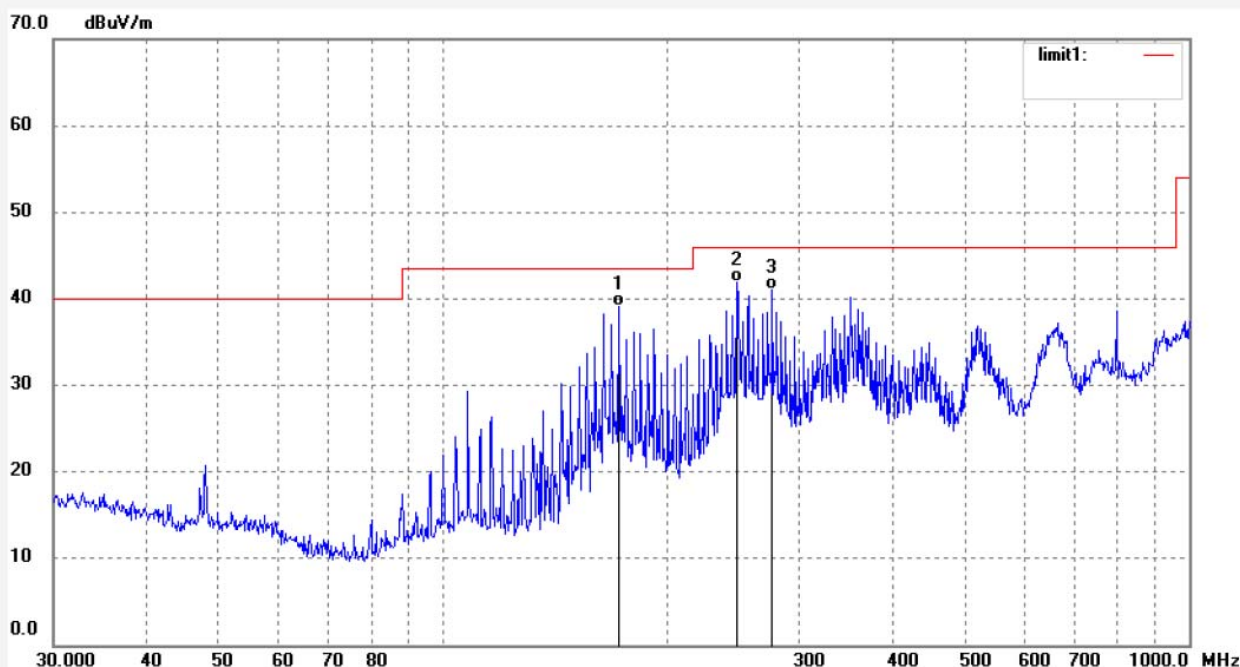
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	171.9945	52.64	-13.51	39.13	43.50	-4.37	QP			
2	247.6819	52.41	-10.57	41.84	46.00	-4.16	QP			
3	276.1235	50.70	-9.70	41.00	46.00	-5.00	QP			

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Job No.: LGW2018 #1852

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2402MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

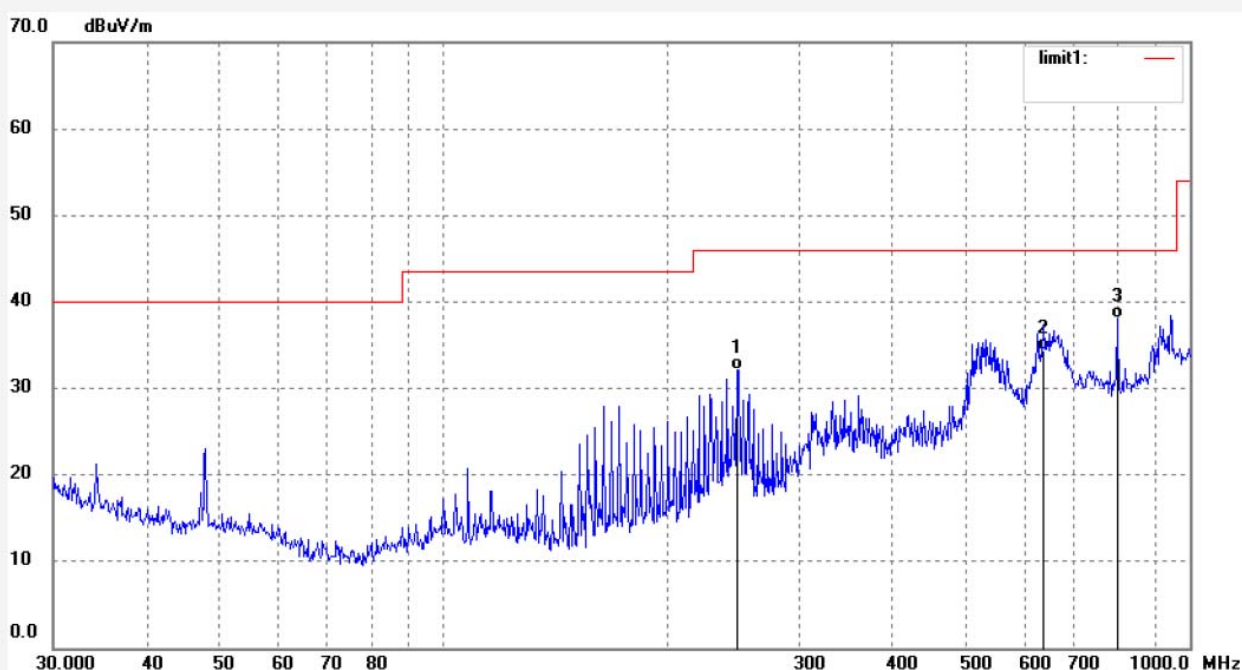
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	247.6819	42.72	-10.57	32.15	46.00	-13.85	QP			
2	636.1340	36.35	-1.94	34.41	46.00	-11.59	QP			
3	798.9796	37.21	0.81	38.02	46.00	-7.98	QP			

Job No.: LGW2018 #1854

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2440MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyild Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

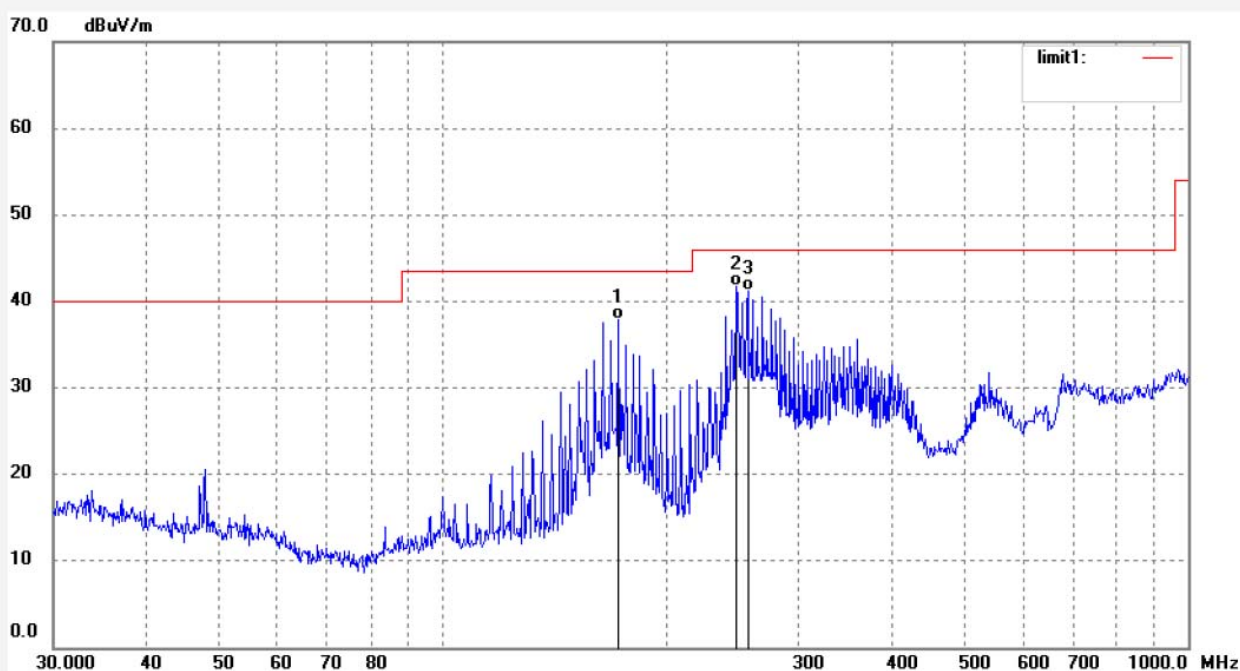
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Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	171.9944	51.43	-13.51	37.92	43.50	-5.58	QP			
2	247.6819	52.37	-10.57	41.80	46.00	-4.20	QP			
3	256.5210	51.80	-10.51	41.29	46.00	-4.71	QP			

Job No.: LGW2018 #1855

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2440MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

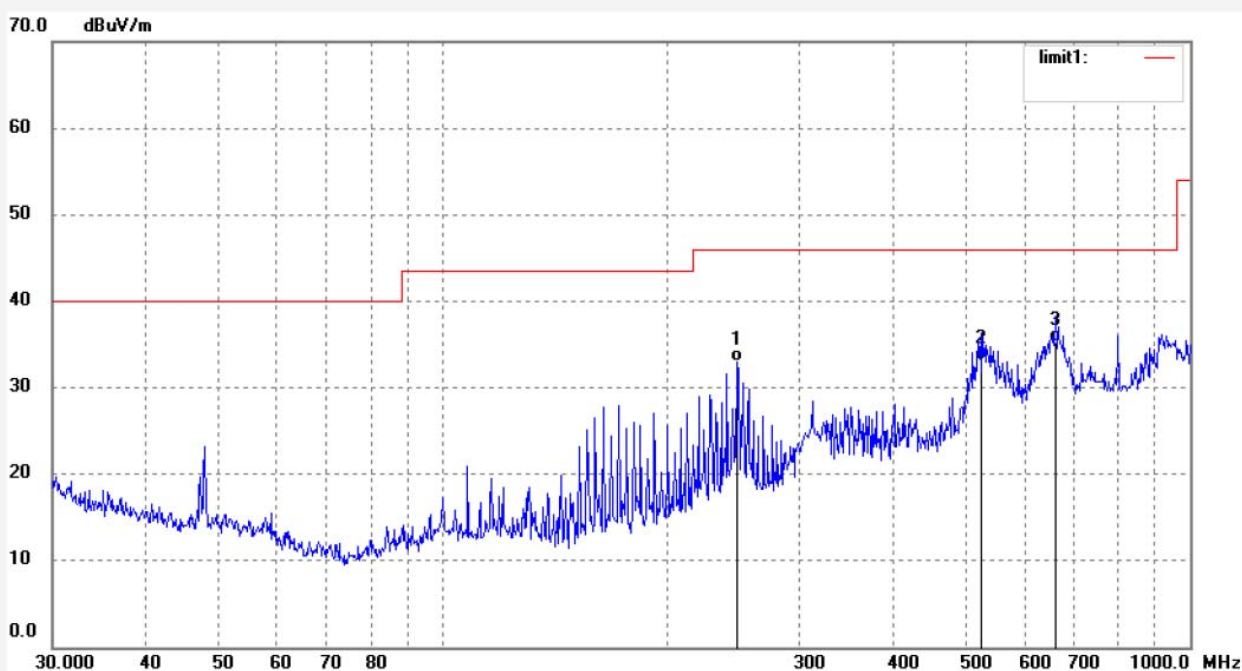
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	247.6819	43.62	-10.57	33.05	46.00	-12.95	QP			
2	524.5540	37.01	-3.76	33.25	46.00	-12.75	QP			
3	661.1504	36.77	-1.59	35.18	46.00	-10.82	QP			

Job No.: LGW2018 #1857

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2480MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

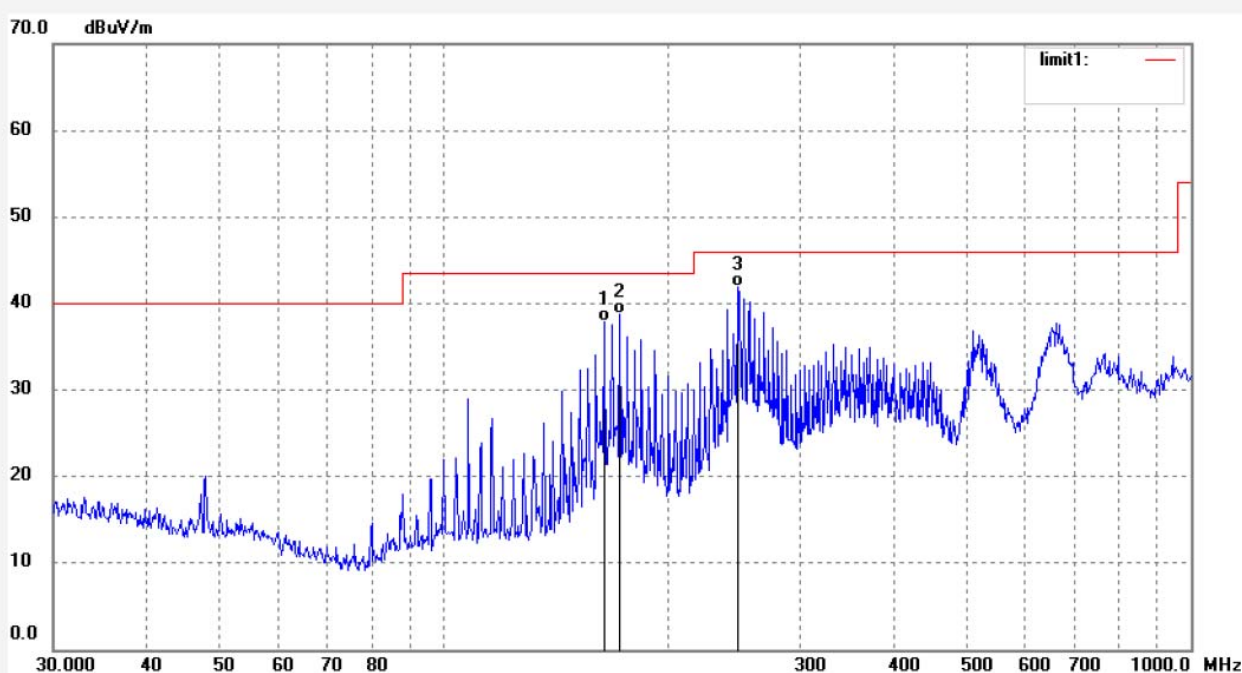
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Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	163.7548	52.15	-14.34	37.81	43.50	-5.69	QP			
2	171.9944	52.23	-13.51	38.72	43.50	-4.78	QP			
3	247.6819	52.49	-10.57	41.92	46.00	-4.08	QP			

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Job No.: LGW2018 #1856

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2480MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

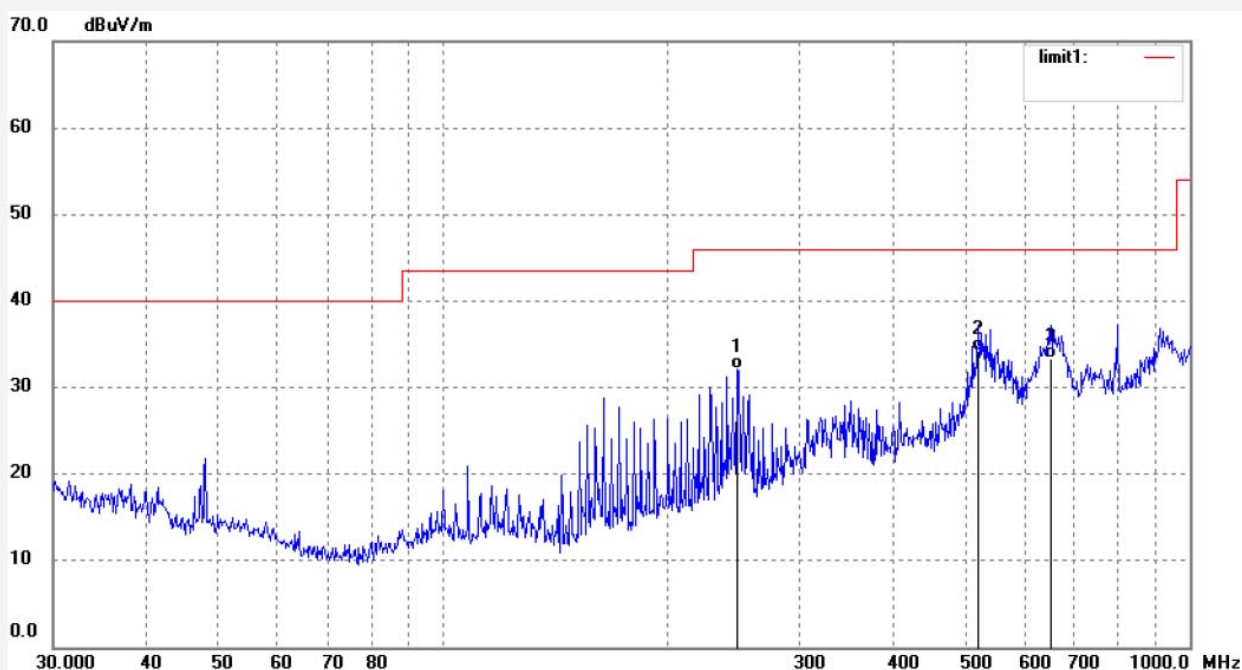
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	247.6819	42.63	-10.57	32.06	46.00	-13.94	QP			
2	520.8881	38.03	-3.80	34.23	46.00	-11.77	QP			
3	656.5299	35.00	-1.66	33.34	46.00	-12.66	QP			

FCC PART15C(1GHz-18GHz)



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Job No.: LGW2018 #1837

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2402MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

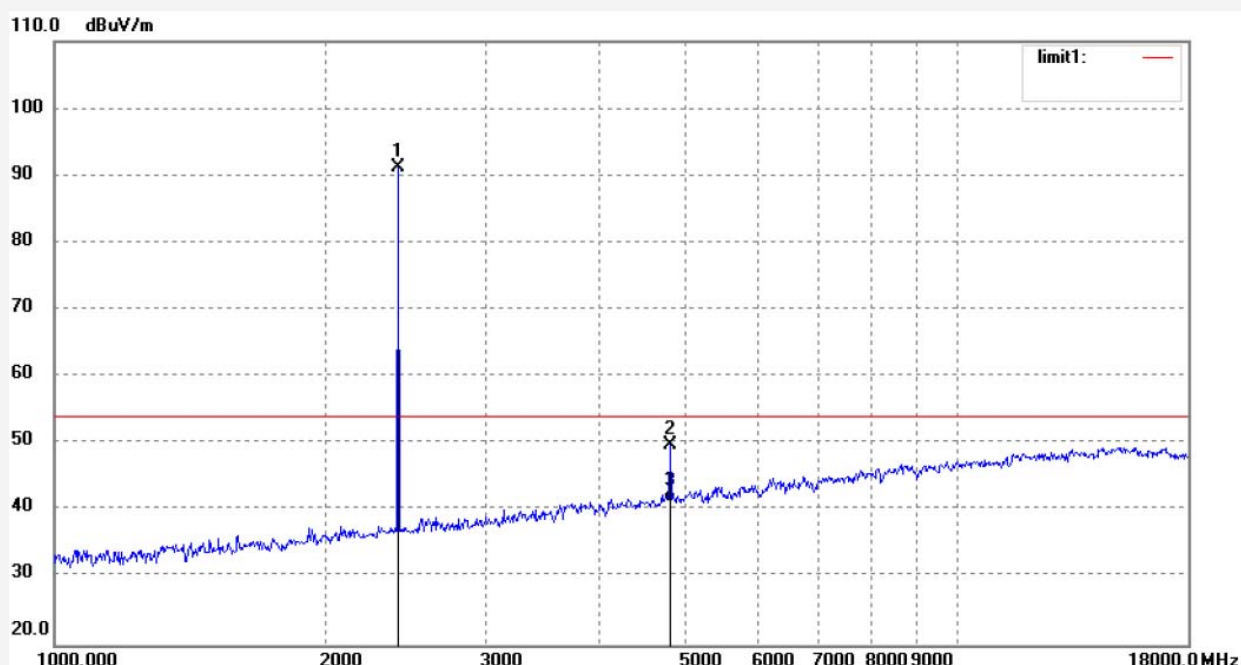
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	90.41	0.89	91.30	/	/	peak			
2	4804.000	42.33	7.40	49.73	74.00	-24.27	peak			
3	4804.000	33.85	7.40	41.25	54.00	-12.75	AVG			

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Job No.: LGW2018 #1836

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2402MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

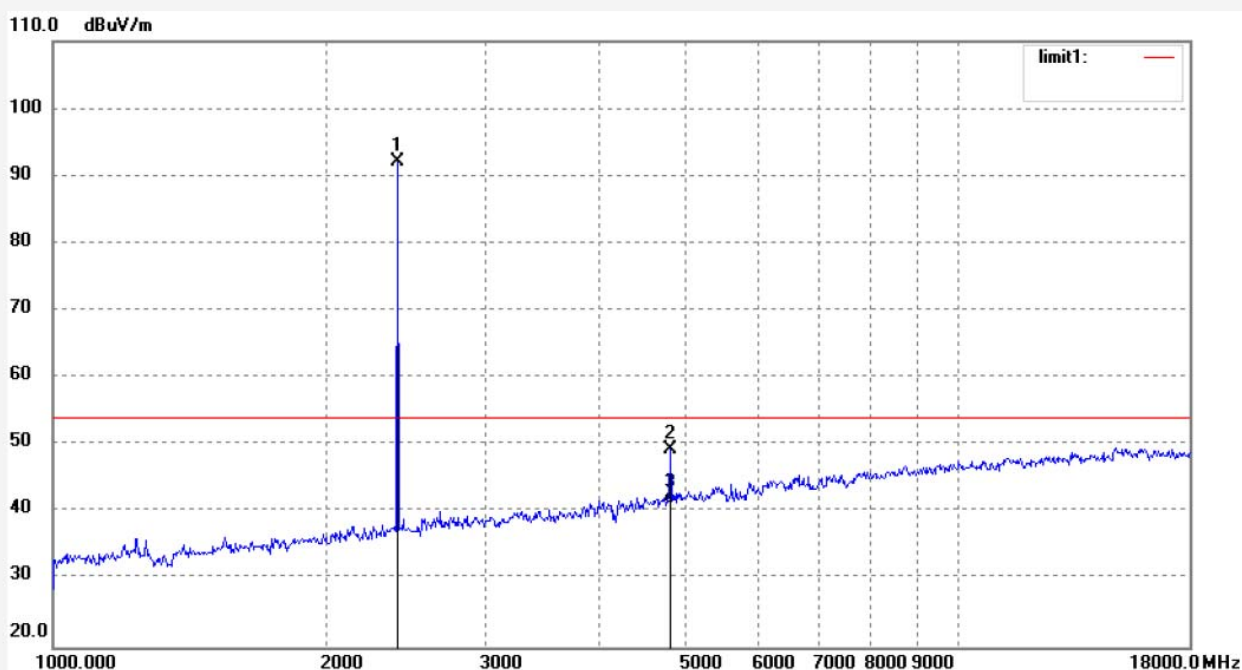
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	91.14	0.89	92.03	/	/	peak			
2	4804.000	41.94	7.40	49.34	74.00	-24.66	peak			
3	4804.000	33.84	7.40	41.24	54.00	-12.76	AVG			

Job No.: LGW2018 #1841

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2440MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

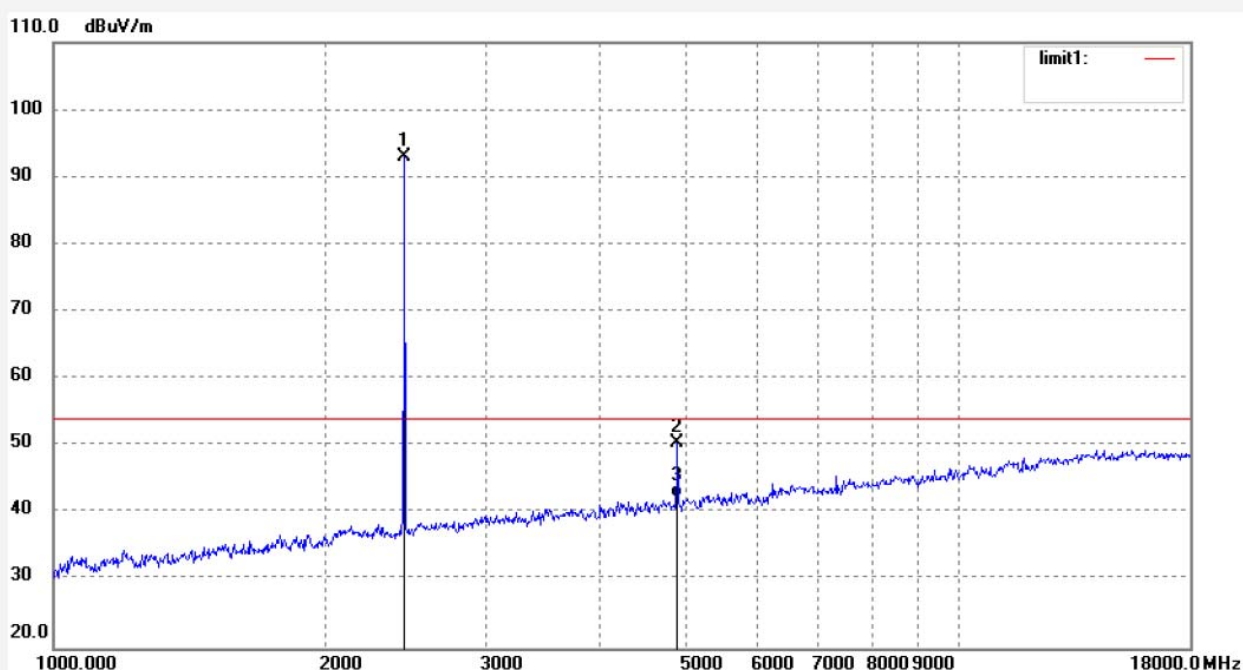
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	91.87	1.04	92.91	/	/	peak			
2	4880.000	42.32	8.10	50.42	74.00	-23.58	peak			
3	4880.000	34.25	8.10	42.35	54.00	-11.65	AVG			

Job No.: LGW2018 #1840

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2440MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

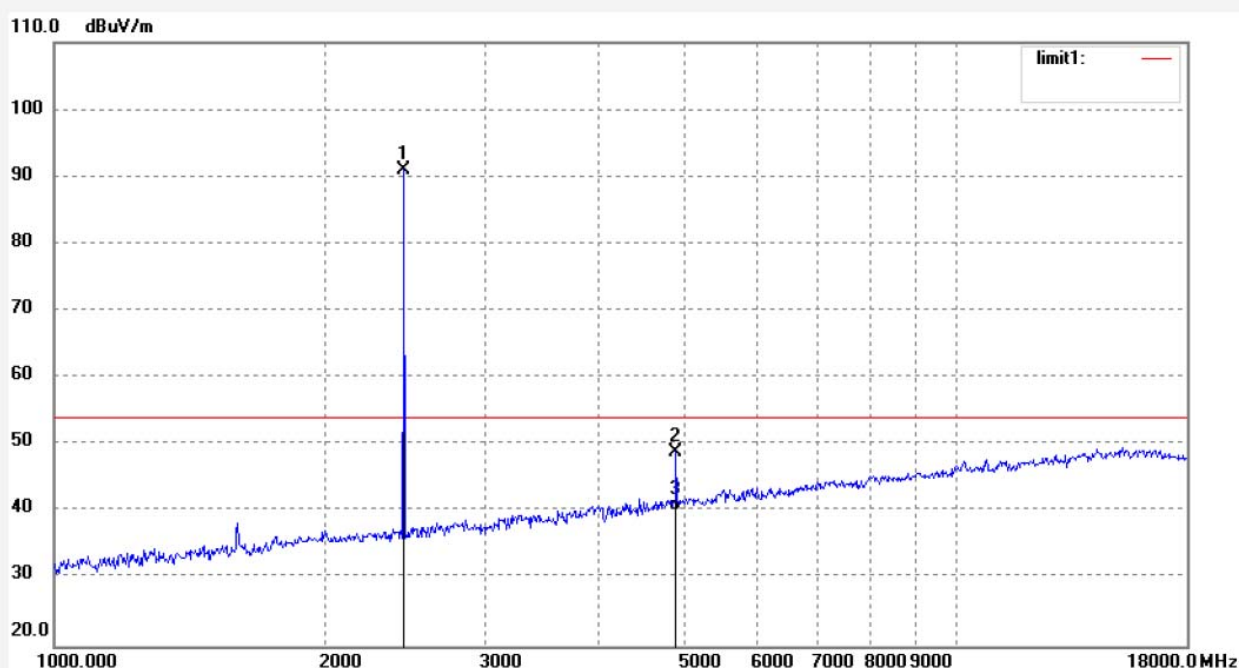
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	89.85	1.04	90.89	/	/	peak			
2	4880.000	40.89	8.10	48.99	74.00	-25.01	peak			
3	4880.000	32.11	8.10	40.21	54.00	-13.79	AVG			

Job No.: LGW2018 #1842

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2480MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

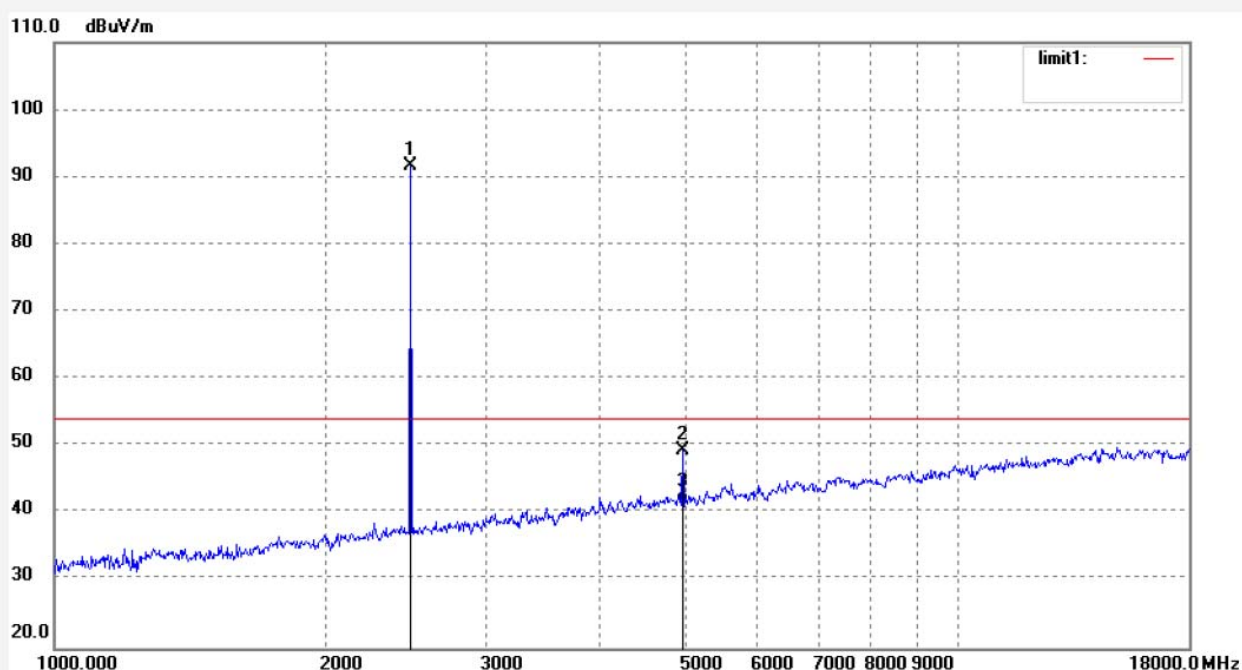
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	90.61	1.10	91.71	/	/	peak			
2	4960.000	40.83	8.60	49.43	74.00	-24.57	peak			
3	4960.000	32.96	8.60	41.56	54.00	-12.44	AVG			

Job No.: LGW2018 #1843

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2480MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

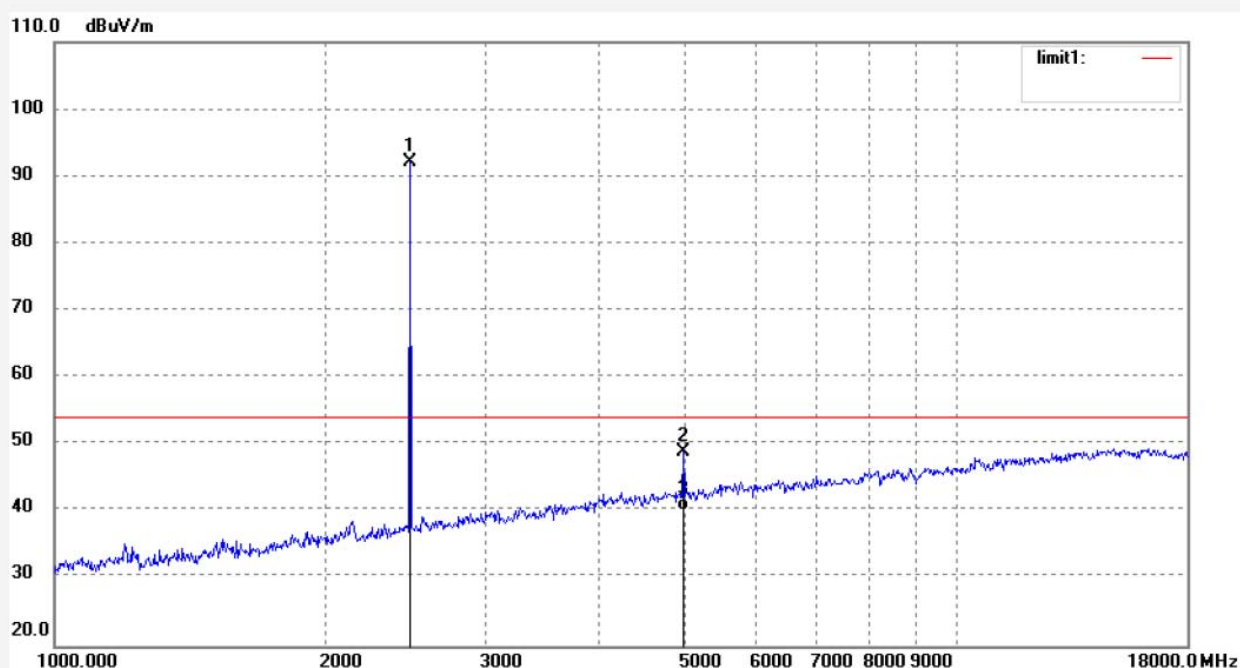
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	90.98	1.10	92.08	/	/	peak			
2	4960.000	40.28	8.60	48.88	74.00	-25.12	peak			
3	4960.000	31.64	8.60	40.24	54.00	-13.76	AVG			

FCC PART15C(18GHz-26.5GHz)


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Job No.: LGW2018 #1846

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2402MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

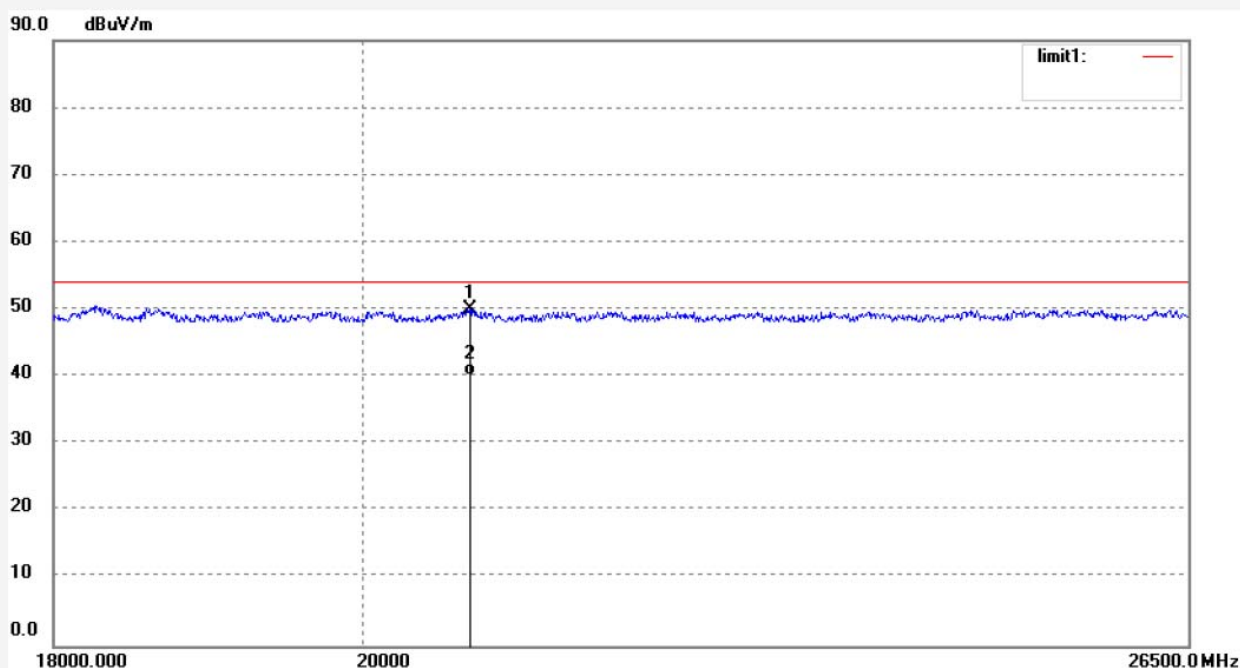
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	20745.253	11.73	38.33	50.06	54.00	-3.94	peak			
2	20745.253	1.88	38.33	40.21	54.00	-13.79	AVG			

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Job No.: LGW2018 #1847

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2402MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

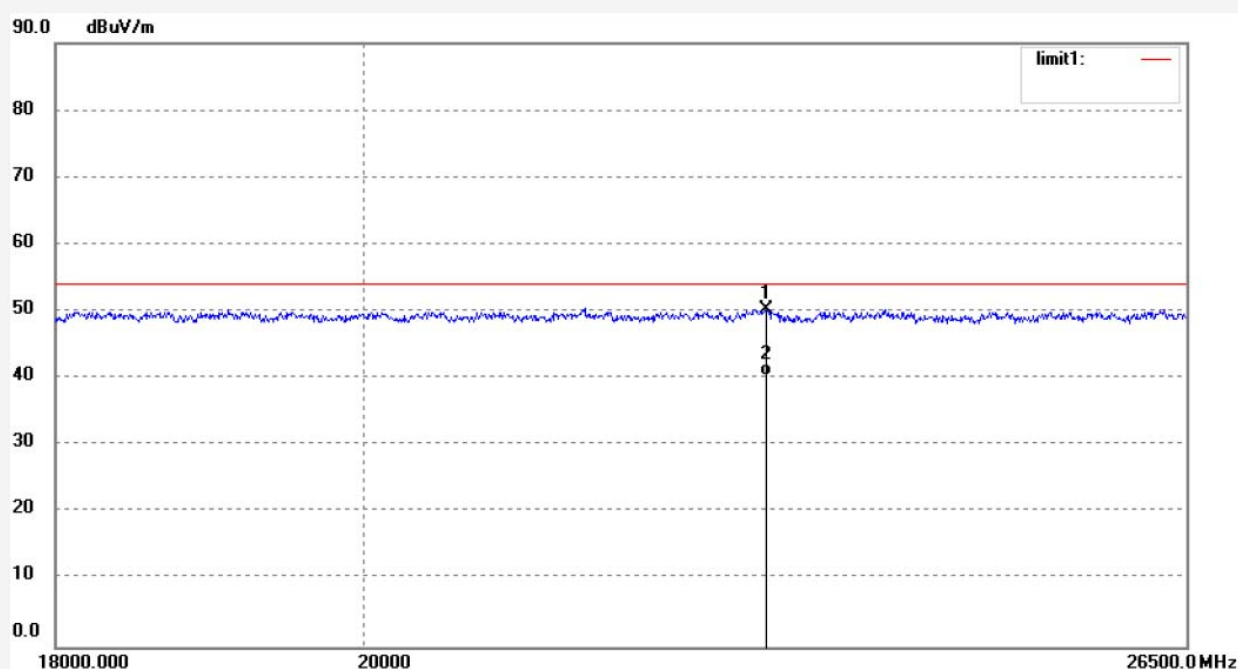
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22948.789	10.58	39.78	50.36	54.00	-3.64	peak			
2	22948.789	0.54	39.78	40.32	54.00	-13.68	AVG			

Job No.: LGW2018 #1849

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2440MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

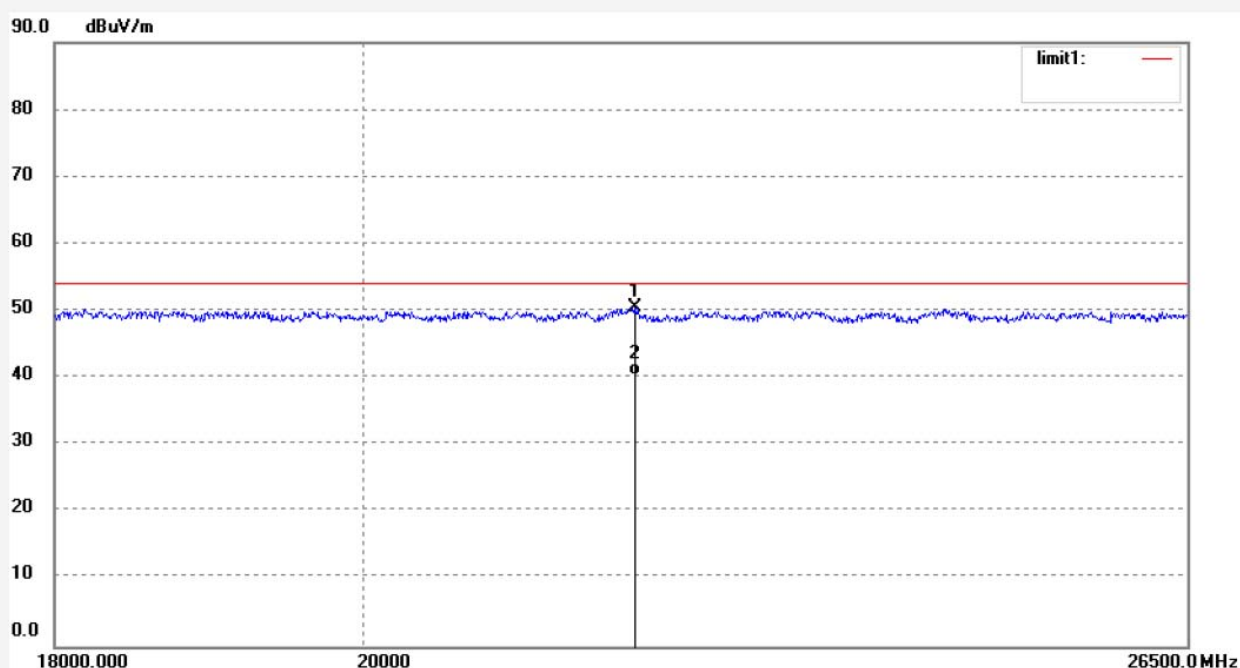
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Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	21941.932	11.11	39.30	50.41	54.00	-3.59	peak			
2	21941.932	1.06	39.30	40.36	54.00	-13.64	AVG			

Job No.: LGW2018 #1848

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2440MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

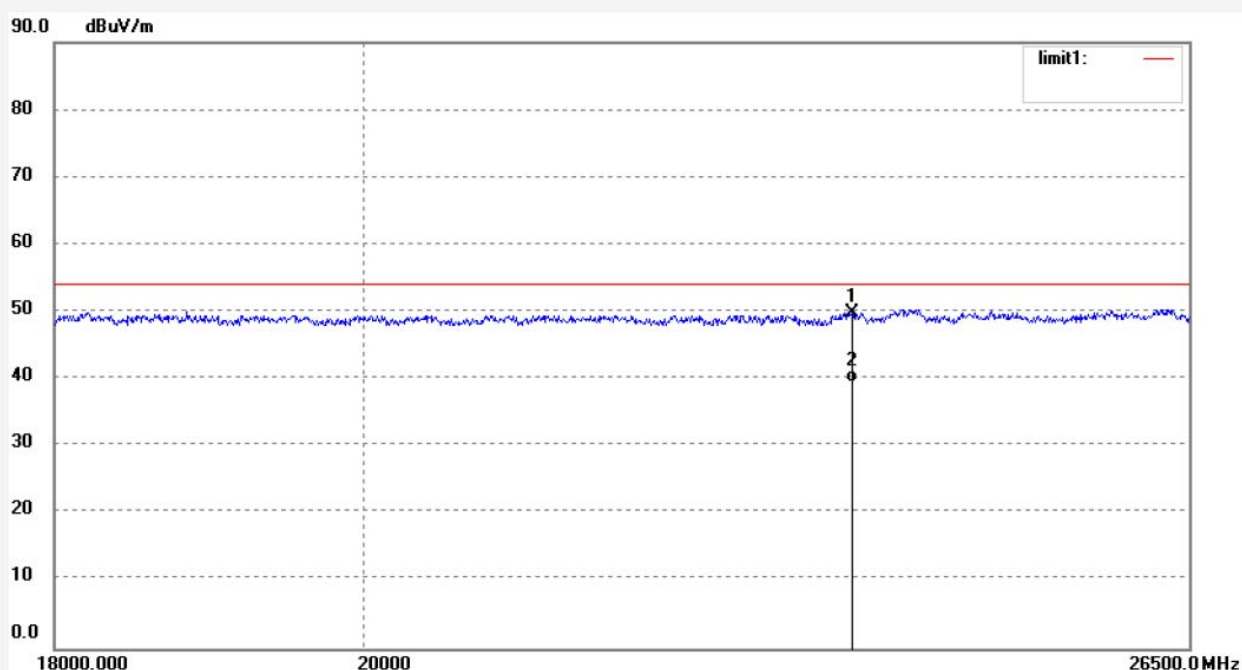
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	23624.237	10.12	39.69	49.81	54.00	-4.19	peak			
2	23624.237	-0.12	39.69	39.57	54.00	-14.43	AVG			

Job No.: LGW2018 #1850

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2480MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 6V

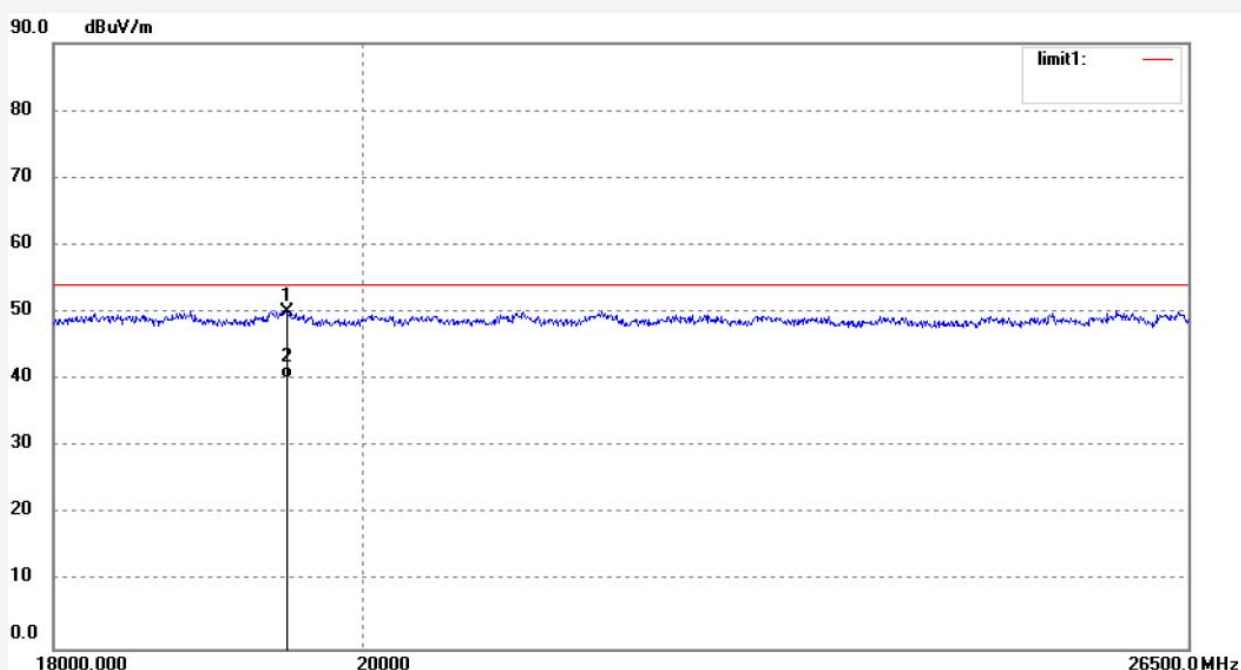
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	19492.836	12.33	37.69	50.02	54.00	-3.98	peak			
2	19492.836	2.52	37.69	40.21	54.00	-13.79	AVG			

Job No.: LGW2018 #1851

Standard: FCC 15.247 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Blood Pressure Monitor

Mode: TX 2480MHz

Model: BW-BT1

Manufacturer: Shenzhen Kingyield Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 6V

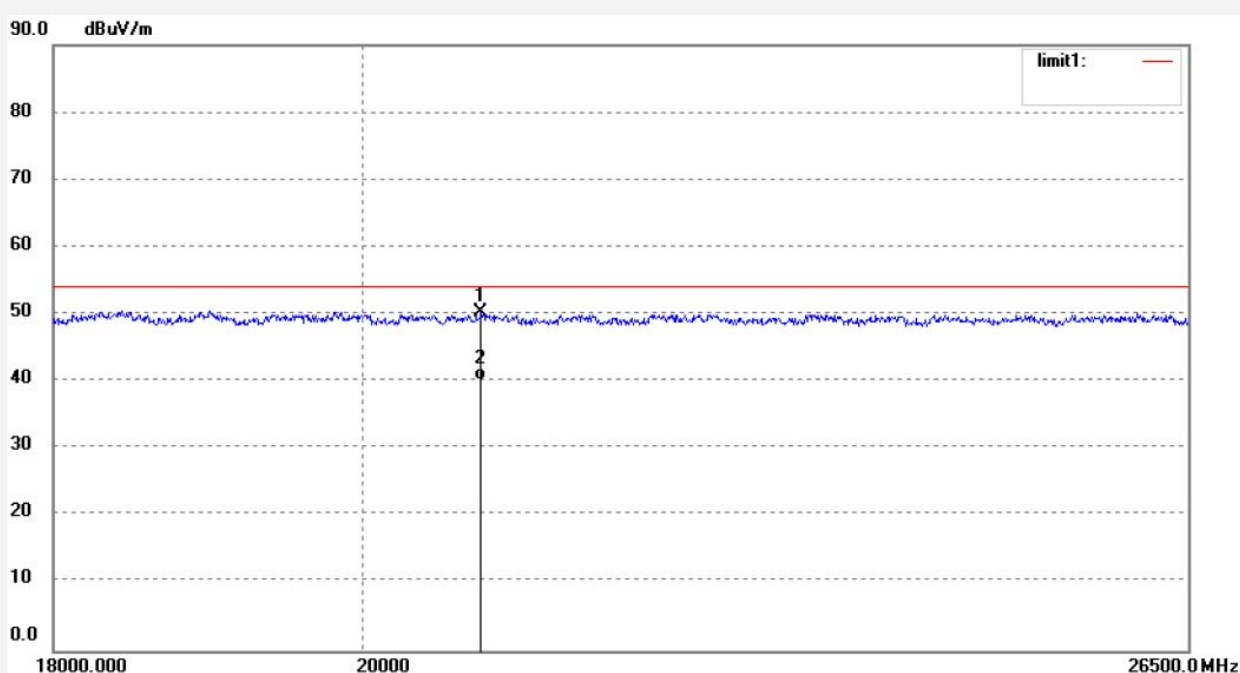
Date: 18/07/21/

Time:

Engineer Signature: WADE

Distance: 3m

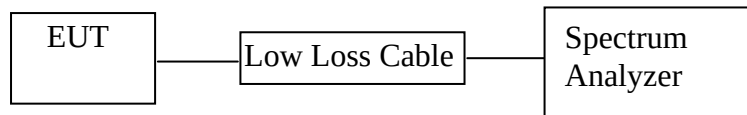
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	20825.645	11.29	39.01	50.30	54.00	-3.70	peak			
2	20825.645	1.24	39.01	40.25	54.00	-13.75	AVG			

10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



(EUT: Blood Pressure Monitor)

10.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 11.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

10.5. Test Procedure

10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz

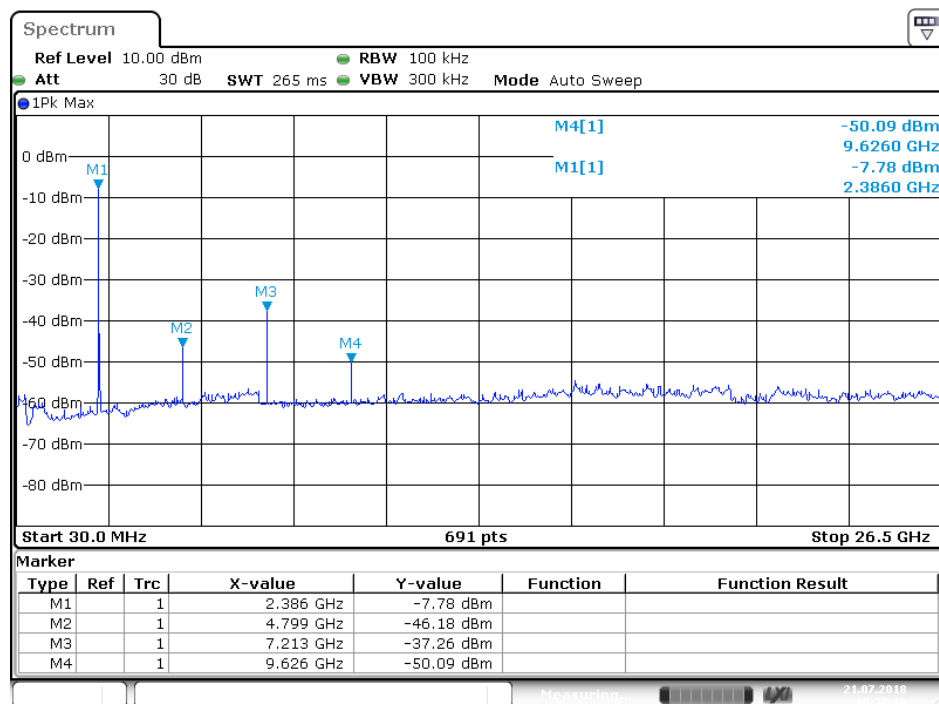
10.5.3. The Conducted Spurious Emission was measured and recorded.

10.6. Test Result

Pass.

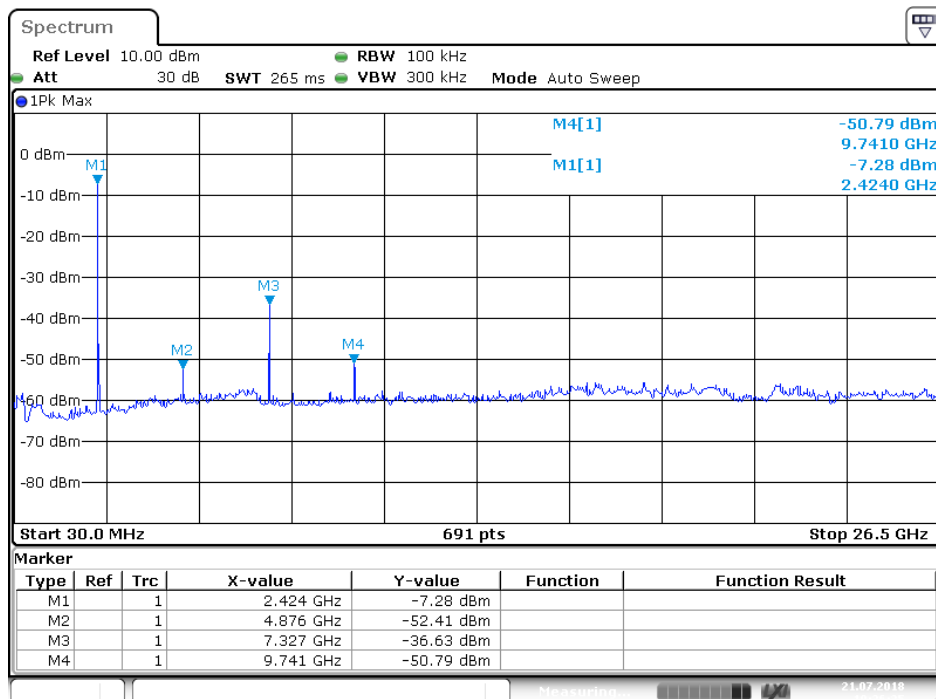
The spectrum analyzer plots are attached as below.

Low Channel 2402MHz



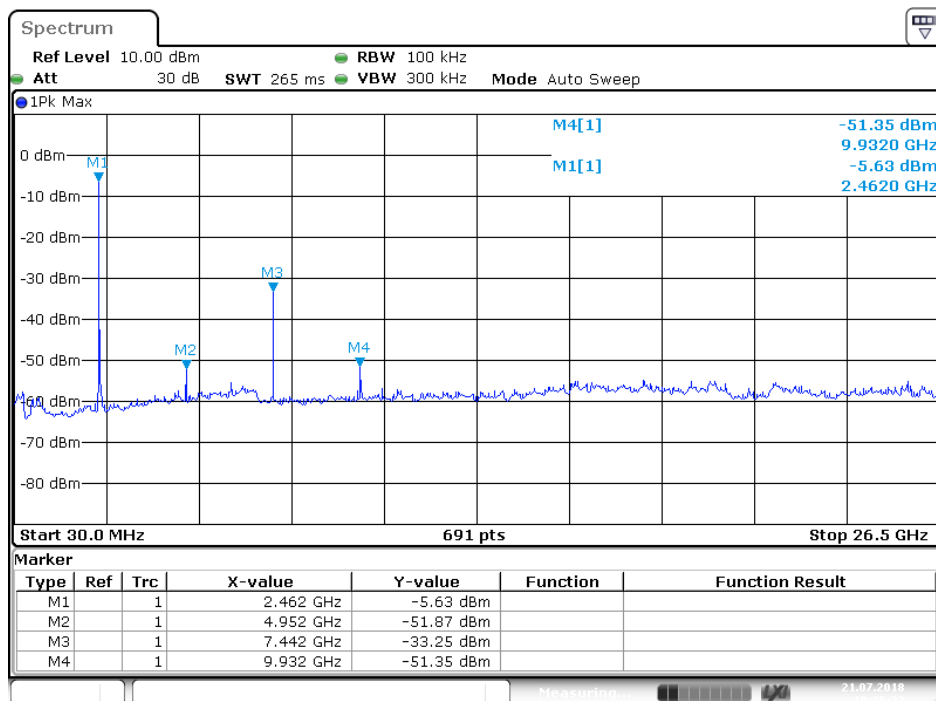
Date: 21.JUL.2018 10:37:16

Middle Channel 2440MHz



Date: 21.JUL.2018 10:36:35

High Channel 2480MHz



Date: 21.JUL.2018 10:35:33

11. ANTENNA REQUIREMENT

11.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

11.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of FCC part 15C Section 15.203.