

RF EXPOSURE REPORT

OF

Applicant: Murata Manufacturing Co., Ltd.
10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555 Japan

Product Name: Communication Module

Brand Name: muRata

FCC Model No.: LBEE5XV1XA, LBEE5XV2BA, LBEE5XV1ZA
LBEE5XV1XA_3ANT, LBEE5XV1XA_2ANT,
LBEE5XV2BA_3ANT, LBEE5XV2BA_2ANT,
LBEE5XV1ZA_3ANT, LBEE5XV1ZA_2ANT

IC Model No.:

Model Difference: Please refer to the tables on page 5 for further details.

Report Number: ER/2020/90111

FCC ID: VPYLBEE5XV1XA

IC: 772C-LBEE5XV1XA

FCC Rule Part: Part 2.1091

IC Rule: RSS-102 issue 5 Mar. 19, 2015

Issue Date: Jan. 07, 2021

Date of Test: This report is only calculated based on the test results, there will be no date of test.

Date of EUT Received: Sep. 22, 2020

We hereby certify that:
The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with the above rule(s).
The results of this report relate only to the sample identified in this report.

Approved By: _____

John Yeh / Asst. Manager



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/90111	Rev.00	Original.	Jan. 07, 2021	Revised By: Violetta Tang

Note:**1 、 Multiple Model numbers or Trademarks**

The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

2 、 Disclaimer

Variant information among model numbers is provided by the applicant, test results of this report are applicable to the sample EUT received.

3 、 Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General:

Product Name:	Communication Module
Brand Name:	muRata
FCC Model No.:	LBEE5XV1XA, LBEE5XV2BA, LBEE5XV1ZA
IC Model No.:	LBEE5XV1XA_3ANT, LBEE5XV1XA_2ANT, LBEE5XV2BA_3ANT, LBEE5XV2BA_2ANT, LBEE5XV1ZA_3ANT, LBEE5XV1ZA_2ANT
Model Difference:	Please refer to the tables on page 5 for further details.
Hardware Version:	1.0
Software Version:	CYW4359D0_004.001.016.0200.0000_Generic_UART_37_4MHz_wlbga_BU_dLNA_test_build_20200910.hcd CYW4359D0_004.001.016.0200.0000_Generic_UART_37_4MHz_wlbga_BU_sLNA_test_build_20200909.hcd
EUT Series No.:	63_3A
Power Supply:	3.3Vdc

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Product Diversity Description Table
Difference for module

Number	Main model 1	2	5	6	9	10
Model Name	LBEE5XV1XA_3 ANT	LBEE5XV1XA_2 ANT	LBEE5XV2BA_3 ANT	LBEE5XV2BA_2 ANT	LBEE5XV1ZA_3 ANT	LBEE5XV1ZA_2 ANT
IC P/N	CYW54591	CYW54591	CYW54590	CYW54590	CYW88459	CYW88459
WiFi I/F	PCIe	PCIe	PCIe	PCIe	PCIe	PCIe
Antenna type/Gain	Dipole type	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT
Circuit Diagram	1XA	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT
Module PCB layout	1XA	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT
Internal Component	1XA	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT
Appearance Print	1XA	Same as 1XA_3ANT	Difference 1XA ->2BA	Difference 1XA ->2BA	Difference 1XA ->1ZA	Difference 1XA ->1ZA
Function/ Capability	1XA	Same as 1XA_3ANT	RSDB is disabled from 1XA_3ANT	RSDB is disabled from 1XA_3ANT	Same as 1XA_3ANT	Same as 1XA_3ANT
Other						

Difference for WLAN IC

Number	CYW54591	CYW54590	CYW88459
IC Size	5.155x7.698	Same as CYW54591	Same as CYW54591
Ball Number	194	Same as CYW54591	Same as CYW54591
Circuit Diagram	CYW54591	Same as CYW54591	Same as CYW54591
RF performance	CYW54591	Same as CYW54591	Same as CYW54591
Appearance	CYW54591	Difference ->Marking : CYW54590	Difference ->Marking : CYW88459
Function/Capability	CYW54591	RSDB doesn't support by Software	Same as CYW54591
Other	Consumer Grade	Same as CYW54591	Industrial Grade*

*IC vendor just want to control P/N for Consumer and Industrial. But IF for Hardware/Software from point of view it is same.

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1.2 Antenna Information:**1.2.1 BT / WLAN 2.4GHz**

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
Dipole	Molex	146153	2.4GHz	3.20	
		146187		3.40	V

1.2.2 WLAN 5GHz

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
Dipole	Molex	146153	5GHz	4.25	
		146187		4.75	V

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1.3 Rated Power**1.3.1 Bluetooth / WLAN 2.4GHz**

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
BR+EDR	2402-2480	79	GFSK + $\pi/4$ DQPSK + 8DPSK	9.94	3.40	13.34	V
BLE	2402-2480	40	GFSK	7.25		10.65	
802.11b/g/n_HT20	2412-2462	11	DSSS & OFDM	19.32		22.72	V
Modulation type:		CCK, DQPSK, DBPSK for DSSS					
		64QAM, 16QAM, QPSK, BPSK for OFDM					

1.3.2 WLAN 5GHz:

802.11	Freq. Range (MHz)	Modulation Technology	Max. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
a	5150~5250	OFDM	15.98	4.75	20.73	
	5250~5350		17.40	4.75	22.15	
	5470~5725		17.38	4.75	22.13	
	5725~5850		17.50	4.75	22.25	
n HT20	5150~5250		15.89	4.75	20.64	
	5250~5350		19.28	4.75	24.03	
	5470~5725		19.98	4.75	24.73	
	5725~5850		20.48	4.75	25.23	V
n HT40	5150~5250		15.20	4.75	19.95	
	5250~5350		19.38	4.75	24.13	
	5470~5725		19.22	4.75	23.97	
	5725~5850		19.42	4.75	24.17	
ac VHT80	5150~5250		11.23	4.75	15.98	
	5250~5350		9.39	4.75	14.14	
	5470~5725		19.44	4.75	24.19	
	5725~5850		15.93	4.75	20.68	

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2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-15000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.2 ISED Standard Applicable

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissible Exposure (MPE)

RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)				
Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	$0.73/f$	-	6**
1.1-10	$87/f^{0.5}$	-	-	6**
10-20	27.46	0.0728	2	6
20-48	$58.07/f^{0.25}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000/f^{1.2}$

F = frequency in MHz

* = Based on nerve stimulation (NS).

** = Based on specific absorption rate (SAR)

Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.3 Power Density Calculation (Worst Case)

FCC Standalone MPE

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Max. output Power EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit	Collocated MPE
BT	2402.00	20	9.94	3.40	21.58	0.004	1.000	Pass	0.004	V
WLAN 2.4G	2442.00	20	19.32	3.40	187.07	0.037	1.000	Pass	0.037	V
WLAN 5G	5785.00	20	20.48	4.75	333.43	0.066	1.000	Pass	0.066	V

ISED Standalone MPE

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. output Power (dBm)	Antenna Gain (dBi)	Output Power EIRP (mW)	Power Density (PD) (W/m ²)	Limit (W/m ²)	Pass / Fail	Power Density / Limit	Collocated MPE
BT	2402.00	20	9.94	3.4	21.58	0.043	5.351	Pass	0.008	V
WLAN 2.4G	2442.00	20	19.32	3.4	187.07	0.372	5.412	Pass	0.069	V
WLAN 5G	5785.00	20	20.48	4.75	333.43	0.664	9.756	Pass	0.068	V

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2.4 Collocated Power Density Calculation

FCC Collocated MPE

Max BT PD / Limit	Max WLAN 2.4G PD / Limit	Max WLAN 5G PD / Limit	Σ (Power Density / Limit) of BT+ WLAN 2.4G + WLAN 5G
0.004	0.037	0.066	0.107

ISED Collocated MPE

Max BT PD / Limit	Max WLAN 2.4G PD / Limit	Max WLAN 5G PD / Limit	Σ (Power Density / Limit) of BT+ WLAN 2.4G + WLAN 5G
0.008	0.069	0.068	0.145

Note:

1. Σ (E- Field Strength / Limit): This is a summation of [(E- Field Strength for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].
2. Considering the collocated transmitters, the aggregated (E- Field Strength /limit) is smaller than 1, and MPE of collocated transmitters is compliant.

~ End of Report ~

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