

RF Exposure Evaluation declaration

Product Name : Notebook PC
Model No. : G732LXS, GL732LXS, G742LXS
FCC ID : MSQG732L

Applicant : ASUSTeK Computer Inc

Address : 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Date of Receipt : Feb. 28, 2020
Date of Declaration : Mar. 16, 2020
Report No. : 2020625R-SAUSP03V00
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Mar. 16, 2020

Report No.: 2020625R-SAUSP03V00



Product Name	Notebook PC	
Applicant	ASUSTeK Computer Inc	
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan	
Manufacturer	ASUSTeK Computer Inc	
Model No.	G732LXS, GL732LXS, G742LXS	
FCC ID.	MSQG732L	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance \geq 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By :

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Tested By :

wen Lee

(Senior Engineer / Wen Lee)

Approved By :



(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Notebook PC
Model No.	G732LXS, GL732LXS, G742LXS
Trade Name	ASUS
FCC ID	MSQG732L
Frequency Range	13.56MHz
Modulation	ASK
Antenna Type	Loop coil Antenna
Contain FCC ID	PD9AX201NG
Note1: The 8mm SAR originally granted on 05/09/2019 for FCC ID: PD9AX201NG.	
Note2: The WLAN Antenna to NB Bottom Separation distances greater 15mm.	

2. RF Exposure Evaluation

2.1. Standard Applicable

According to KDB 447498 D01, Appendix C SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm.

2.2. Limits

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

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Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0 .

2.3. Test Result of RF Exposure Evaluation

Product : Notebook PC
 Test Item : RF Exposure Evaluation

NFC:

Frequency (MHz)	H-Field (dBuV/3m)	H-Field (ERP) (dBm)	H-Field (ERP) (mW)	Limit (mW)	Pass/Fail
13.56	39.51	-57.86878745	0.0000016	459	Pass

Note: The H-Field power is refer to report No.: 2020625R-RFUSP17V01 from the DEKRA.

AX201NG 8mm Module Peak SAR:

Reference Standards	FCC 47 CFR Part §2.1093 RSS-102, Issue 5 (see section 1)		
RF Exposure Environment	Portable devices - General population/uncontrolled exposure		
	SAR Result		SAR Limit
Maximum SAR Result & Limit	0.79 W/kg (1g)		1.6 W/kg (1g)
Min. test separation distance	8mm		
Test Report identification	180717-02.TR11		
Revision Control	Rev. 00 This test report revision replaces any previous test report revision (see section 8)		

Note: The 8mm Peak SAR is refer to report No.: 180717-02.TR11 from the Intel Corporation S.A.S–WRF Lab.

2.4. Calculations for Multi-Tranmitter

Mode	Maximum Value	Limit	ratios	result	Ratios Limit	Pass/Fail
WLAN	0.79	1.6	0.4938	0.494	1	Pass
NFC	0.0000016	459	0.000000003			

Ratios = Maximum Value/ Limit.