RF Exposure Evaluation

Test report On Behalf of Everex Electronics Ltd

For

0.9 inch Alarm Clock Digital PLL FM Radio with Wireless

Model No.: MCR41808, MCR41808A, MCR41808B, MCR41808C, MCR41808D, MCR41808E, MCR41808F, MCR41808G

FCC ID: 2ABWOMCR418NX

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1 General Description of EUT

Product Name:	0.9 inch Alarm Clock Digital PLL FM Radio with Wireless
Model/Type reference:	MCR41808
Serial Model:	MCR41808A, MCR41808B, MCR41808C, MCR41808D, MCR41808E, MCR41808F, MCR41808G
Model Difference:	All model's the function, software and electric circuit are the same, only with a product outward and model named different. Test sample model: MCR41808
Trade Mark	MAGNAVOX
FCC ID	2ABWOMCR418NX
Hardware Version:	KS-049BT_V1.0
Software Version:	V4.2.30
Version:	Supported EDR
Modulation:	GFSK, π/4DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79CH
Channel separation:	1MHz
Antenna type:	PCB Antenna
Antenna gain:	0 dBi
Power supply:	DC 5V from Adapter/DC 3.0V from AA*2 battery

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 4.3.1. Standalone SAR test exclusion considerations Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation 17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

3 EUT RF Exposure

GFSK						
Channel	Maximum Peak Conducted	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated	Exclusion threshold
	Output Power (dBm)					
			(dBm)	(mW)	value	urresnoid
Lowest (2402MHz)	0.701	1±1	2	1.585	0.491	
Middle (2441MHz)	1.101	1±1	2	1.585	0.495	3.0
Highest (2480MHz)	1.258	1±1	2	1.585	0.499	
Conclusion: the	calculated value ≤3	3.0, SAR is exemp	ted.			

Channel	Maximum Peak Conducted	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated	Exclusion
	Output Power (dBm)		(dBm)	(mW)	value	threshold
Lowest (2402MHz)	1.410	1±1	2	1.585	0.491	
Middle (2441MHz)	1.791	1±1	2	1.585	0.495	3.0
Highest (2480MHz)	1.946	1±1	2	1.585	0.499	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK1912063126-E