

APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCGA2757	SAR EVALUATION REPORT	Approved by: Technical Manager	
DUT Type:		APPENDIX D:	
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Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table D-1
SAR System Validation Summary – 1g

SAR System Freq. (MHz) Date Probe SN Probe Cal Point SN Cond. (σ) Perm. (gr) SENSITIVITY PROBE LINEARITY PROBE INCARITY MOD. TYPE FACTOR AM12 750 06/08/2022 7499 750 Head 0.874 43.491 PASS PASS PASS N/A N/A AM14 835 06/10/2022 7674 835 Head 0.931 43.410 PASS PASS PASS GMSK PASS AM13 1750 06/01/2022 7546 1750 Head 1.379 38.927 PASS PASS PASS N/A N/A AM13 1750 06/01/2022 7530 1900 Head 1.451 40.772 PASS PASS PASS N/A N/A AM8 2300 05/05/2022 7546 2300 Head 1.680 41.200 PASS PASS PASS N/A N/A AM11 2450 06/08/2022 7420 2450 Head </th <th colspan="10">SAR System validation Summary – 1g</th>	SAR System validation Summary – 1g														
System MHz Date SN Probe Cal Point (o) (er) SENSITIVITY PROBE LINEARITY SOTROPY TYPE FACTOR FACTOR				L	Brobo			Cond	Dorm	CI	W VALIDATIO	MOD. VALIDATION			
AM14 835 06/10/2022 7674 835 Head 0.931 43.410 PASS PASS PASS GMSK PASS AM8 1750 06/01/2022 7546 1750 Head 1.379 38.927 PASS PASS PASS N/A N/A AM13 1750 06/21/2022 7360 1750 Head 1.404 38.836 PASS PASS PASS N/A N/A AM6 1900 06/08/2022 7532 1900 Head 1.451 40.772 PASS PASS PASS GMSK PASS AM8 2300 05/05/2022 7546 2300 Head 1.680 41.200 PASS PASS PASS N/A N/A AM4 2450 03/11/2022 3837 2450 Head 1.800 39.784 PASS PASS PASS OFDWTDD PASS AM7 2450 06/08/2022 7416 2450 Head 1.815	D	D	ate			Probe (Cal Point		-	SENSITIVITY	_	_	_	DUTY FACTOR	PAR
AM8 1750 06/01/2022 7546 1750 Head 1.379 38.927 PASS PASS PASS N/A N/A AM13 1750 06/21/2022 7360 1750 Head 1.404 38.836 PASS PASS PASS N/A N/A AM6 1900 06/08/2022 7532 1900 Head 1.451 40.772 PASS PASS PASS GMSK PASS AM8 2300 05/05/2022 7546 2300 Head 1.680 41.200 PASS PASS PASS PASS N/A N/A AM4 2450 03/11/2022 3837 2450 Head 1.800 39.784 PASS PASS PASS OFDM/TDD PASS AM11 2450 06/08/2022 7420 2450 Head 1.880 39.500 PASS PASS PASS OFDM/TDD PASS AM4 2600 03/25/2022 3837 2600 Head	6/0	06/08	8/2022		7499	750	Head	0.874	43.491	PASS	PASS	PASS	N/A	N/A	N/A
AM13 1750 06/21/2022 7360 1750 Head 1.404 38.836 PASS PASS PASS N/A N/A AM6 1900 06/08/2022 7532 1900 Head 1.451 40.772 PASS PASS PASS GMSK PASS AM8 2300 05/05/2022 7546 2300 Head 1.680 41.200 PASS PASS PASS N/A N/A AM4 2450 03/11/2022 3837 2450 Head 1.800 39.784 PASS PASS PASS OFDM/TDD PASS AM11 2450 06/08/2022 7420 2450 Head 1.880 39.500 PASS PASS PASS OFDM/TDD PASS AM7 2450 06/08/2022 7416 2450 Head 1.815 38.495 PASS PASS PASS PASS PASS AMS DFDM/TDD PASS AM4 2600 06/08/2022 <td< td=""><td>3/10</td><td>06/10</td><td>0/2022</td><td></td><td>7674</td><td>835</td><td>Head</td><td>0.931</td><td>43.410</td><td>PASS</td><td>PASS</td><td>PASS</td><td>GMSK</td><td>PASS</td><td>N/A</td></td<>	3/10	06/10	0/2022		7674	835	Head	0.931	43.410	PASS	PASS	PASS	GMSK	PASS	N/A
AM6 1900 06/08/2022 7532 1900 Head 1.451 40.772 PASS PASS PASS GMSK PASS AM8 2300 05/05/2022 7546 2300 Head 1.680 41.200 PASS PASS PASS N/A N/A AM4 2450 03/11/2022 3837 2450 Head 1.800 39.784 PASS PASS PASS OFDM/TDD PASS AM11 2450 06/08/2022 7420 2450 Head 1.880 39.500 PASS PASS PASS OFDM/TDD PASS AM7 2450 06/08/2022 7416 2450 Head 1.815 38.495 PASS PASS PASS OFDM/TDD PASS AM4 2600 03/25/2022 3837 2600 Head 1.955 39.728 PASS PASS PASS TDD PASS AM11 2600 06/08/2022 7420 2600 Head <	3/0	06/01	1/2022		7546	1750	Head	1.379	38.927	PASS	PASS	PASS	N/A	N/A	N/A
AM8 2300 05/05/2022 7546 2300 Head 1.680 41.200 PASS PASS PASS N/A N/A AM4 2450 03/11/2022 3837 2450 Head 1.800 39.784 PASS PASS PASS OFDM/TDD PASS AM11 2450 06/08/2022 7420 2450 Head 1.880 39.500 PASS PASS PASS OFDM/TDD PASS AM7 2450 06/08/2022 7416 2450 Head 1.815 38.495 PASS PASS PASS OFDM/TDD PASS AM4 2600 03/25/2022 3837 2600 Head 1.955 39.728 PASS PASS PASS TDD PASS AM11 2600 06/08/2022 7420 2600 Head 2.050 38.900 PASS PASS PASS TDD PASS AM3 3500 04/04/2022 7427 3500 Head <t< td=""><td>3/2</td><td>06/21</td><td>1/2022</td><td></td><td>7360</td><td>1750</td><td>Head</td><td>1.404</td><td>38.836</td><td>PASS</td><td>PASS</td><td>PASS</td><td>N/A</td><td>N/A</td><td>N/A</td></t<>	3/2	06/21	1/2022		7360	1750	Head	1.404	38.836	PASS	PASS	PASS	N/A	N/A	N/A
AM4 2450 03/11/2022 3837 2450 Head 1.800 39.784 PASS PASS PASS OFDM/TDD PASS AM11 2450 06/08/2022 7420 2450 Head 1.880 39.500 PASS PASS PASS OFDM/TDD PASS AM7 2450 06/08/2022 7416 2450 Head 1.815 38.495 PASS PASS PASS OFDM/TDD PASS AM4 2600 03/25/2022 3837 2600 Head 1.955 39.728 PASS PASS PASS TDD PASS AM11 2600 06/08/2022 7420 2600 Head 2.050 38.900 PASS PASS PASS TDD PASS AM3 3500 04/04/2022 7427 3500 Head 2.940 38.400 PASS PASS PASS TDD PASS AM7 3500 06/18/2022 7416 3500 Head <	6/08	06/08	8/2022		7532	1900	Head	1.451	40.772	PASS	PASS	PASS	GMSK	PASS	N/A
AM11 2450 06/08/2022 7420 2450 Head 1.880 39.500 PASS PASS PASS OFDM/TDD PASS AM7 2450 06/08/2022 7416 2450 Head 1.815 38.495 PASS PASS PASS OFDM/TDD PASS AM4 2600 03/25/2022 3837 2600 Head 1.955 39.728 PASS PASS PASS TDD PASS AM11 2600 06/08/2022 7420 2600 Head 2.050 38.900 PASS PASS PASS TDD PASS AM3 3500 04/04/2022 7427 3500 Head 2.940 38.400 PASS PASS PASS TDD PASS AM7 3500 06/18/2022 7416 3500 Head 2.865 36.230 PASS PASS PASS TDD PASS AM4 3700 03/29/2022 3837 3700 Head 2.	5/0	05/05	5/2022		7546	2300	Head	1.680	41.200	PASS	PASS	PASS	N/A	N/A	N/A
AM7 2450 06/08/2022 7416 2450 Head 1.815 38.495 PASS PASS PASS OFDM/TDD PASS AM4 2600 03/25/2022 3837 2600 Head 1.955 39.728 PASS PASS PASS TDD PASS AM11 2600 06/08/2022 7420 2600 Head 2.050 38.900 PASS PASS PASS TDD PASS AM3 3500 04/04/2022 7427 3500 Head 2.940 38.400 PASS PASS PASS TDD PASS AM7 3500 06/18/2022 7416 3500 Head 2.865 36.230 PASS PASS PASS TDD PASS AM4 3700 03/29/2022 3837 3700 Head 2.970 37.600 PASS PASS PASS TDD PASS AM3 3700 04/04/2022 7427 3700 Head 3.120 <td>3/1</td> <td>03/11</td> <td>1/2022</td> <td>;</td> <td>3837</td> <td>2450</td> <td>Head</td> <td>1.800</td> <td>39.784</td> <td>PASS</td> <td>PASS</td> <td>PASS</td> <td>OFDM/TDD</td> <td>PASS</td> <td>PASS</td>	3/1	03/11	1/2022	;	3837	2450	Head	1.800	39.784	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM4 2600 03/25/2022 3837 2600 Head 1.955 39.728 PASS PASS PASS TDD PASS AM11 2600 06/08/2022 7420 2600 Head 2.050 38.900 PASS PASS PASS TDD PASS AM3 3500 04/04/2022 7427 3500 Head 2.940 38.400 PASS PASS PASS TDD PASS AM7 3500 06/18/2022 7416 3500 Head 2.865 36.230 PASS PASS PASS TDD PASS AM4 3700 03/29/2022 3837 3700 Head 2.970 37.600 PASS PASS PASS TDD PASS AM3 3700 04/04/2022 7427 3700 Head 3.120 38.100 PASS PASS PASS TDD PASS AM4 3900 03/29/2022 3837 3900 Head 3.170	6/08	06/08	8/2022		7420	2450	Head	1.880	39.500	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM11 2600 06/08/2022 7420 2600 Head 2.050 38.900 PASS PASS PASS TDD PASS AM3 3500 04/04/2022 7427 3500 Head 2.940 38.400 PASS PASS PASS TDD PASS AM7 3500 06/18/2022 7416 3500 Head 2.865 36.230 PASS PASS PASS TDD PASS AM4 3700 03/29/2022 3837 3700 Head 2.970 37.600 PASS PASS PASS TDD PASS AM3 3700 04/04/2022 7427 3700 Head 3.120 38.100 PASS PASS PASS TDD PASS AM4 3900 03/29/2022 3837 3900 Head 3.170 37.200 PASS PASS PASS TDD PASS	6/08	06/08	8/2022		7416	2450	Head	1.815	38.495	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM3 3500 04/04/2022 7427 3500 Head 2.940 38.400 PASS PASS PASS TDD PASS AM7 3500 06/18/2022 7416 3500 Head 2.865 36.230 PASS PASS PASS TDD PASS AM4 3700 03/29/2022 3837 3700 Head 2.970 37.600 PASS PASS PASS TDD PASS AM3 3700 04/04/2022 7427 3700 Head 3.120 38.100 PASS PASS PASS TDD PASS AM4 3900 03/29/2022 3837 3900 Head 3.170 37.200 PASS PASS PASS TDD PASS	3/2	03/25	5/2022	,	3837	2600	Head	1.955	39.728	PASS	PASS	PASS	TDD	PASS	N/A
AM7 3500 06/18/2022 7416 3500 Head 2.865 36.230 PASS PASS PASS TDD PASS AM4 3700 03/29/2022 3837 3700 Head 2.970 37.600 PASS PASS PASS TDD PASS AM3 3700 04/04/2022 7427 3700 Head 3.120 38.100 PASS PASS PASS TDD PASS AM4 3900 03/29/2022 3837 3900 Head 3.170 37.200 PASS PASS PASS TDD PASS	6/08	06/08	8/2022		7420	2600	Head	2.050	38.900	PASS	PASS	PASS	TDD	PASS	N/A
AM4 3700 03/29/2022 3837 3700 Head 2.970 37.600 PASS PASS PASS TDD PASS AM3 3700 04/04/2022 7427 3700 Head 3.120 38.100 PASS PASS PASS TDD PASS AM4 3900 03/29/2022 3837 3900 Head 3.170 37.200 PASS PASS PASS TDD PASS	1/04	04/04	4/2022		7427	3500	Head	2.940	38.400	PASS	PASS	PASS	TDD	PASS	N/A
AM3 3700 04/04/2022 7427 3700 Head 3.120 38.100 PASS PASS PASS TDD PASS AM4 3900 03/29/2022 3837 3900 Head 3.170 37.200 PASS PASS PASS TDD PASS	3/18	06/18	8/2022		7416	3500	Head	2.865	36.230	PASS	PASS	PASS	TDD	PASS	N/A
AM4 3900 03/29/2022 3837 3900 Head 3.170 37.200 PASS PASS TDD PASS	3/29	03/29	9/2022	1	3837	3700	Head	2.970	37.600	PASS	PASS	PASS	TDD	PASS	N/A
	1/04	04/04	4/2022		7427	3700	Head	3.120	38.100	PASS	PASS	PASS	TDD	PASS	N/A
AMQ 5250 04/12/2022 7638 5250 Head 4,606 35,527 PASS PASS PASS OFDM N/A	3/2	03/29	9/2022	;	3837	3900	Head	3.170	37.200	PASS	PASS	PASS	TDD	PASS	N/A
ANIO 3230 04/12/2022 7030 3230 11eau 4.000 33.327 1 A33 1 A33 1 A33 1 OF DIVI 1 IVA	1/1:	04/12	2/2022		7638	5250	Head	4.606	35.527	PASS	PASS	PASS	OFDM	N/A	PASS
AM9 5600 04/12/2022 7638 5600 Head 5.018 34.950 PASS PASS OFDM N/A	1/12	04/12	2/2022		7638	5600	Head	5.018	34.950	PASS	PASS	PASS	OFDM	N/A	PASS
AM9 5750 04/12/2022 7638 5750 Head 5.190 34.628 PASS PASS OFDM N/A	1/1:	04/12	2/2022		7638	5750	Head	5.190	34.628	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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		Technical Manager
DUT Type:		APPENDIX D:
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