11 SAR MEASUREMENT RESULT (2.4 GHZ)

11.1 Test Position 3 – Main Antenna (HTL017)

				0.0	Main Antenna	
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802.11b Separation.			Measured	Power Drift	Extrapolated	
BO2.11b Separation. distance (mm)	Channel	f (MHz)	Measured 1g (mW/g)	Power Drift (dBm)	Extrapolated 1g (mW/g)	Limit (mW/g)
Separation.	Channel	f (MHz) 2412				Limit (mW/g)
Separation. distance (mm)					1g (mW/g)	Limit (mW/g) 1.6
Separation. distance (mm) 0	1	2412	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm) 0 0 0	1 6	2412 2437	1g (mW/g)	(dBm)	1g (mW/g) 0.000 0.0195	
Separation. distance (mm) 0 0 802.11g	1 6	2412 2437	1g (mW/g) 0.019	(dBm) -0.104	1g (mW/g) 0.000 0.0195 0.000	
Separation. distance (mm) 0 0 0 802.11g Separation.	1 6 11	2412 2437 2462	1g (mW/g) 0.019 Measured	(dBm) -0.104 Power Drift	1g (mW/g) 0.000 0.0195 0.000 Extrapolated	1.6
Separation. distance (mm) 0 0 802.11g Separation. distance (mm)	1 6 11 Channel	2412 2437 2462 f (MHz)	1g (mW/g) 0.019	(dBm) -0.104	1g (mW/g) 0.000 0.0195 0.000 Extrapolated 1g (mW/g)	
Separation. distance (mm) 0 0 0 802.11g Separation.	1 6 11	2412 2437 2462	1g (mW/g) 0.019 Measured	(dBm) -0.104 Power Drift	1g (mW/g) 0.000 0.0195 0.000 Extrapolated	1.6

 The exact method of extrapolation is measured SAR x 10ⁿ(-drift/10). The SAR reported at the end of the measurement process by the DASY4 measurement system can be scaled up by the measured drift to determine the SAR at the beginning of the measurement process

2) The SAR measured at the highest power channel for this configuration is at least 3 dB lower than SAR limit, thus testing at others channel is optional.

11.2 Test Position 4 – Aux Antenna (HTL017)

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Startes Million - 1						
Separation.	Channel	f (MHz)	Measured	Power Drift	Extrapolated	
Separation. distance (mm)	Channel	f (MHz) 2347	1g (mW/g)	(dBm)	1g (mW/g)	Limit (mW/g)
Separation.	Channel 6 6 ¹⁾	2347	1g (mW/g) 0.045	(dBm) -0.153	1g (mW/g) 0.047	
Separation. distance (mm) 0	6		1g (mW/g)	(dBm)	1g (mW/g)	Limit (mW/g) 1.6
Separation. distance (mm) 0 0 0	6 6 ¹⁾	2347 2437	1g (mW/g) 0.045 0.042	(dBm) -0.153 -0.090 -0.010	1g (mW/g) 0.047 0.0429 0.042	
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾	2347 2437 2437	1g (mW/g) 0.045 0.042 0.042 Measured	(dBm) -0.153 -0.090 -0.010 Power Drift	1g (mW/g) 0.047 0.0429 0.042 Extrapolated	1.6
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel	2347 2437 2437 f (MHz)	1g (mW/g) 0.045 0.042 0.042	(dBm) -0.153 -0.090 -0.010	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g)	
Separation. distance (mm) 0 0 0 802.11g Separation. distance (mm) 0	6 6 ¹⁾ 6 ²⁾ Channel 1	2347 2437 2437 f (MHz) 2412	1g (mW/g) 0.045 0.042 0.042 Measured 1g (mW/g)	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm)	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000	1.6 Limit (mW/g)
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel 1 6	2347 2437 2437 f (MHz) 2412 2437	1g (mW/g) 0.045 0.042 0.042 Measured	(dBm) -0.153 -0.090 -0.010 Power Drift	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384	1.6
Separation. distance (mm) 0 0 0 302.11g Separation. distance (mm) 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel 1	2347 2437 2437 f (MHz) 2412	1g (mW/g) 0.045 0.042 0.042 Measured 1g (mW/g)	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm)	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000	1.6 Limit (mW/g)
Separation. distance (mm) 0 0 0 802.11g Separation. distance (mm) 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel 1 6 11	2347 2437 2437 f (MHz) 2412 2437 2462	1g (mW/g) 0.045 0.042 0.042 Measured 1g (mW/g) 0.038	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm) -0.040	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384 0.000	1.6 Limit (mW/g) 1.6
Separation. distance (mm) 0 0 0 802.11g Separation. distance (mm) 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel 1 6 11 SAR measurem	2347 2437 2437 f (MHz) 2412 2437 2462	1g (mW/g) 0.045 0.042 0.042 Measured 1g (mW/g)	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm) -0.040	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384 0.000	1.6 Limit (mW/g) 1.6
distance (mm) 0 0 802.11g Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel 1 6 11 SAR measurem	2347 2437 2437 <u>f (MHz)</u> 2412 2437 2462 ment result with the	1g (mW/g) 0.045 0.042 0.042 Measured 1g (mW/g) 0.038	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm) -0.040 d Bluetooth (BC02	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384 0.000 2) radio card (Tran	1.6 Limit (mW/g) 1.6 smitting
Separation. distance (mm) 0 0 0 802.11g Separation. distance (mm) 0 0 0 0 0 0 0 0 0 2) The Co-located simultaneously) 2) The Co-located simultaneously)	6 6 ¹⁾ 6 ²⁾ Channel 1 6 11 SAR measurem SAR measurem	2347 2437 2437 f (MHz) 2412 2437 2462 ment result with the	1g (mW/g) 0.045 0.042 0.042 Measured 1g (mW/g) 0.038 Wireless card an Wireless card an	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm) -0.040 d Bluetooth (BC02 d Bluetooth (BC04	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384 0.000 2) radio card (Tran	1.6 Limit (mW/g) 1.6 smitting smitting
Separation. distance (mm) 0 0 0 802.11g Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 2) The Co-located simultaneously) 2) The Co-located simultaneously) 3) The exact meth	6 6 ¹⁾ 6 ²⁾ Channel 1 6 11 SAR measurem SAR measurem od of extrapolati	2347 2437 2437 f (MHz) 2412 2437 2462 nent result with the nent result with the	1g (mW/g) 0.045 0.042 0.042 0.042 0.038 0.038 wireless card an	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm) -0.040 d Bluetooth (BC02 d Bluetooth (BC02	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384 0.000 2) radio card (Tran i) radio card (Tran ed at the end of th	1.6 Limit (mW/g) 1.6 smitting smitting
Separation. distance (mm) 0 0 0 302.11g Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel 1 6 11 SAR measurem SAR measurem od of extrapolati DASY4 measure	2347 2437 2437 2437 <u>f (MHz)</u> 2412 2437 2462 ment result with the nent result with the ion is <i>measured S</i> ement system can	1g (mW/g) 0.045 0.042 0.042 Measured 1g (mW/g) 0.038 Wireless card an Wireless card an	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm) -0.040 d Bluetooth (BC02 d Bluetooth (BC02	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384 0.000 2) radio card (Tran i) radio card (Tran ed at the end of th	1.6 Limit (mW/g) 1.6 smitting smitting
Separation. distance (mm) 0 0 0 802.11g Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 ¹⁾ 6 ²⁾ Channel 1 6 11 SAR measurem SAR measurem SAR measurem od of extrapolati DASY4 measure measurement ured at the highe	2347 2437 2437 2437 2412 2412 2437 2462 ment result with the nent result with the ion is <i>measured S</i> ement system can process	1g (mW/g) 0.045 0.042 0.042 0.042 0.038 0.038 wireless card an	(dBm) -0.153 -0.090 -0.010 Power Drift (dBm) -0.040 d Bluetooth (BC02 d Bluetooth (BC02 d Bluetooth (BC04 . The SAR report the measured drift	1g (mW/g) 0.047 0.0429 0.042 Extrapolated 1g (mW/g) 0.000 0.0384 0.000 2) radio card (Transition card (Transition card (Transition card (Transition card the end of the to determine the State card the end of the to determine the State card the s	1.6 Limit (mW/g) 1.6 smitting smitting ne measurement GAR at the

11.3 Test Position 3 – Main Antenna (TIAN01)

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					Main Antenna	A LARA
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802.11b			Measured	Power Drift	Extrapolated	
302.11b Separation. distance (mm)	Channel	f (MHz)	Measured 1g (mW/g)	Power Drift (dBm)	Extrapolated 1g (mW/g)	Limit (mW/g)
Separation.	1	f (MHz) 2412	1g (mW/g)	(dBm)	1g (mW/g) 0.000	Limit (mW/g)
Separation. distance (mm) 0 0	1 6	2412 2437			1g (mW/g) 0.000 0.0246	Limit (mW/g) 1.6
Separation. distance (mm) 0	1	2412	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm) 0 0 0	1 6	2412 2437	1g (mW/g)	(dBm)	1g (mW/g) 0.000 0.0246	
Separation. distance (mm) 0 0 0 302.11g Separation.	1 6 11	2412 2437 2462	1g (mW/g) 0.024 Measured	(dBm) -0.101 Power Drift	1g (mW/g) 0.000 0.0246 0.000 Extrapolated	1.6
Separation. distance (mm) 0 0 802.11g Separation. distance (mm)	1 6 11 Channel	2412 2437 2462 f (MHz)	1g (mW/g) 0.024	(dBm) -0.101	1g (mW/g) 0.000 0.0246 0.000 Extrapolated 1g (mW/g)	
Separation. distance (mm) 0 0 302.11g Separation. distance (mm) 0	1 6 11 Channel 1	2412 2437 2462 f (MHz) 2412	1g (mW/g) 0.024 Measured 1g (mW/g)	(dBm) -0.101 Power Drift (dBm)	1g (mW/g) 0.000 0.0246 0.000 Extrapolated 1g (mW/g) 0.000	1.6 Limit (mW/g)
Separation. distance (mm) 0 0 802.11g Separation. distance (mm)	1 6 11 Channel	2412 2437 2462 f (MHz)	1g (mW/g) 0.024 Measured	(dBm) -0.101 Power Drift	1g (mW/g) 0.000 0.0246 0.000 Extrapolated 1g (mW/g)	1.6

of the measurement process

2) The SAR measured at the highest power channel for this configuration is at least 3 dB lower than SAR limit, thus testing at others channel is optional.

11.4 Test Position 4 – Aux Antenna (TIAN01)

802.11b Separation.
B02.11b Separation. distance (mm)
Separation.
Separation. distance (mm) 0 0
Separation. distance (mm) 0
Separation. distance (mm) 0 0 802.11g
Separation. distance (mm) 0 0 0 802.11g Separation.
Separation. distance (mm) 0 0 802.11g
Separation. distance (mm) 0 0 0 802.11g Separation.
Separation. distance (mm) 0 0 802.11g Separation. distance (mm)

of the measurement process2) The SAR measured at the highest power channel for this configuration is at least 3 dB lower than SAR limit, thus testing at others channel is optional.

12 SAR MEASUREMENT RESULT (5 GHZ)

12.1 Test Position 3 – Main Antenna (HTL017)

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					Main Antenna	
02 11a /5 2 GHz	bandi					
	band)		Measured	Power Drift	Extrapolated	
02.11a (5.2 GHz Separation. distance (mm)	<i>band)</i> Channel	f (MHz)	Measured 1g (mW/g)	Power Drift (dBm)	Extrapolated 1g (mW/g)	Limit (mW/g)
Separation. distance (mm) 0	Channel 36	5180	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm) 0 0	Channel 36 52	5180 5260			1g (mW/g) 0.000 0.055	Limit (mW/g)
Separation. distance (mm) 0 0 0	Channel 36 52 64	5180	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm) 0 0 0 02.11a (5.8 GHz	Channel 36 52 64	5180 5260	1g (mW/g) 0.053	(dBm) -0.198	1g (mW/g) 0.000 0.055 0.000	
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Channel 36 52 64 band)	5180 5260 5320	1g (mW/g) 0.053 Measured	(dBm) -0.198 Power Drift	1g (mW/g) 0.000 0.055 0.000 Extrapolated	1.6
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Channel 36 52 64 band) Channel	5180 5260 5320 f (MHz)	1g (mW/g) 0.053 Measured 1g (mW/g)	(dBm) -0.198 Power Drift (dBm)	1g (mW/g) 0.000 0.055 0.000 Extrapolated 1g (mW/g)	Limit (mW/g)
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Channel 36 52 64 band) Channel 149	5180 5260 5320 f (MHz) 5745	1g (mW/g) 0.053 Measured	(dBm) -0.198 Power Drift	1g (mW/g) 0.000 0.055 0.000 Extrapolated 1g (mW/g) 0.066	1.6
distance (mm) 0 0 0 0 02.11a (5.8 GHz Separation. distance (mm)	Channel 36 52 64 band) Channel	5180 5260 5320 f (MHz)	1g (mW/g) 0.053 Measured 1g (mW/g)	(dBm) -0.198 Power Drift (dBm)	1g (mW/g) 0.000 0.055 0.000 Extrapolated 1g (mW/g)	1.6 Limit (mW/g)

12.2 Test Position 4 – Aux Antenna (HTL017)

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	Aux Ante	enna				
	bandi					
302.11a (5.2 GHz Separation.	band)		Measured	Power Drift	Extrapolated	
BO2.11a (5.2 GHz Separation. distance (mm)	Channel	f (MHz)	Measured 1g (mW/g)	Power Drift (dBm)	Extrapolated 1g (mW/g)	Limit (mW/g)
Separation.	Channel 36	5180	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm)	Channel 36 52	5180 5260			1g (mW/g) 0.000 0.048	Limit (mW/g) 1.6
Separation. distance (mm) 0 0 0	Channel 36 52 64	5180	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm) 0 0 0 802.11a (5.8 GHz	Channel 36 52 64	5180 5260	1g (mW/g) 0.047	(dBm) -0.097	1g (mW/g) 0.000 0.048 0.000	
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Channel 36 52 64 band)	5180 5260 5320	1g (mW/g) 0.047 Measured	(dBm) -0.097 Power Drift	1g (mW/g) 0.000 0.048 0.000 Extrapolated	1.6
Separation. distance (mm) 0 0 802.11a (5.8 GHz Separation. distance (mm)	Channel 36 52 64 band) Channel	5180 5260 5320 f (MHz)	1g (mW/g) 0.047 Measured 1g (mW/g)	(dBm) -0.097 Power Drift (dBm)	1g (mW/g) 0.000 0.048 0.000 Extrapolated 1g (mW/g)	1.6 Limit (mW/g)
Separation. distance (mm) 0 0 0 302.11a (5.8 GHz Separation. distance (mm) 0	Channel 36 52 64 band) Channel 149	5180 5260 5320 f (MHz) 5745	1g (mW/g) 0.047 Measured	(dBm) -0.097 Power Drift	1g (mW/g) 0.000 0.048 0.000 Extrapolated 1g (mW/g) 0.068	1.6
Separation. distance (mm) 0 0 0 302.11a (5.8 GHz Separation. distance (mm)	Channel 36 52 64 band) Channel	5180 5260 5320 f (MHz)	1g (mW/g) 0.047 Measured 1g (mW/g)	(dBm) -0.097 Power Drift (dBm)	1g (mW/g) 0.000 0.048 0.000 Extrapolated 1g (mW/g)	1.6 Limit (mW/g)
Separation. distance (mm) 0 0 0 302.11a (5.8 GHz Separation. distance (mm) 0	Channel 36 52 64 band) Channel 149	5180 5260 5320 f (MHz) 5745	1g (mW/g) 0.047 Measured 1g (mW/g)	(dBm) -0.097 Power Drift (dBm)	1g (mW/g) 0.000 0.048 0.000 Extrapolated 1g (mW/g) 0.068	1.6 Limit (mW/g)

12.3 Test Position 3 – Main Antenna (TIAN01)

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					Main Antenna	
	band)					
Separation.			Measured	Power Drift	Extrapolated	
Separation. distance (mm)	Channel	f (MHz)	Measured 1g (mW/g)	Power Drift (dBm)	1g (mW/g)	Limit (mW/g)
Separation. distance (mm) 0	Channel 36	5180	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm)	Channel	5180 5260			1g (mW/g) 0.000 0.066	Limit (mW/g) 1.6
distance (mm) 0 0 0	Channel 36 52 64	5180	1g (mW/g)	(dBm)	1g (mW/g) 0.000	
Separation. distance (mm) 0 0 0 0 02.11a (5.8 GHz	Channel 36 52 64	5180 5260	1g (mW/g)	(dBm)	1g (mW/g) 0.000 0.066	
Separation. distance (mm) 0 0 0	Channel 36 52 64	5180 5260	1g (mW/g) 0.064	(dBm) -0.123	1g (mW/g) 0.000 0.066 0.000	1.6
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Channel 36 52 64 band)	5180 5260 5320	1g (mW/g) 0.064 Measured	(dBm) -0.123 Power Drift	1g (mW/g) 0.000 0.066 0.000 Extrapolated	
Separation. distance (mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Channel 36 52 64 band) Channel	5180 5260 5320 f (MHz)	1g (mW/g) 0.064 Measured 1g (mW/g)	(dBm) -0.123 Power Drift (dBm)	1g (mW/g) 0.000 0.066 0.000 Extrapolated 1g (mW/g)	1.6 Limit (mW/g)

12.4 Test Position 4 – Aux Antenna (TIAN01)

	Aux Ant					
802.11a (5.2 GHz	band)		Magging	Douver Drift	Extron clote -	
Separation. distance (mm)	Channel	f (MHz)	Measured 1g (mW/g)	Power Drift (dBm)	Extrapolated 1g (mW/g)	Limit (mW/g)
	36	5180	ig (inv/g)	(ubiii)	0.000	
0	52	5260	0.088	-0.101	0.090	1.6
0	64	5320	0.000	0.101	0.000	
802.11a (5.8 GHz						
Separation.			Measured	Power Drift	Extrapolated	
distance (mm)	Channel	f (MHz)	1g (mW/g)	(dBm)	1g (mW/g)	Limit (mW/g)
0	149	5745	0.119	-0.170	0.124	
0	149 ¹⁾	5745	0.089	-0.111	0.091	1.6
0	149 ²⁾	5745	0.127	-0.140	0.131	
simultaneou 2) The Co-loca simultaneou 3) The exact m process by t beginning of 4) The SAR me	sly) ted SAR measu sly) nethod of extrapo he DASY4 meas f the measureme	rement result with plation is <i>measure</i> surement system ent process. ighest power char	can be scaled up b	and Bluetooth (Br (10). The SAR rep by the measured d	C04) radio card (T ported at the end c rift to determine th	ransmitting of the measurement
			rement data and r	olots showina the r	naximum SAR loc	ation of the EUT.
			rement data and p	olots showing the r	naximum SAR loc	ation of the EUT.