

Project No.	SHT2203115006EW		
Test sample No.	YPHT22031150006	Model No.	GT20
Start test date	2022/5/10	Finish date	2022/5/11
Temperature	22.4°C	Humidity	45%
Test Engineer	Bo Wang	Auditor	<i>Xiaodong Zhao</i>

Appendix clause	Test Item	Result
A	Conducted Power Measurement Results	PASS
B	SAR Measurement Results	PASS
C	Simultaneous Transmission analysis	PASS

Appendix A:Conducted Power Measurement Results-GSM

GSM850		Burst Average Power (dBm)			Tune-up limit (dBm)	Division Factors	Frame-Average Power (dBm)			Tune-up limit (dBm)
		CH128	CH190	CH251			CH128	CH190	CH251	
		824.2MHz	836.6MHz	848.8MHz			824.2MHz	836.6MHz	848.8MHz	
GSM		32.29	32.77	32.52	33.00	-9.03	23.26	23.74	23.49	23.97
GPRS (GMSK)	1Tx slot	32.90	32.69	32.43	33.00	-9.03	23.87	23.66	23.40	23.97
	2Tx slots	31.38	31.27	30.90	31.50	-6.02	25.36	25.25	24.88	25.48
	3Tx slots	29.50	29.19	29.24	30.00	-4.26	25.24	24.93	24.98	25.74
	4Tx slots	27.09	27.02	26.65	27.50	-3.01	24.08	24.01	23.64	24.49

GSM1900		Burst Average Power (dBm)			Tune-up limit (dBm)	Division Factors	Frame-Average Power (dBm)			Tune-up limit (dBm)
		CH512	CH661	CH810			CH512	CH661	CH810	
		1850.2MHz	1880MHz	1909.8MHz			1850.2MHz	1880.0MHz	1909.8MHz	
GSM		30.47	30.52	30.37	31.00	-9.03	21.44	21.49	21.34	21.97
GPRS (GMSK)	1Tx slot	30.49	30.26	30.08	30.50	-9.03	21.46	21.23	21.05	21.47
	2Tx slots	28.43	28.55	27.89	29.00	-6.02	22.41	22.53	21.87	22.98
	3Tx slots	26.76	26.54	25.98	27.00	-4.26	22.50	22.28	21.72	22.74
	4Tx slots	24.36	24.09	23.67	24.50	-3.01	21.35	21.08	20.66	21.49

Appendix A:Conducted Power Measurement Results-WCDMA

WCDMA Band II		Conducted Power (dBm)			Tune-up limit (dBm)
		CH9262	CH9400	CH9538	
		1852.4MHz	1880MHz	1907.6MHz	
AMR 12.2K		23.07	23.08	23.08	23.50
RMC 12.2K		23.10	23.11	23.11	23.50
HSDPA	Subtest-1	23.99	24.41	24.30	24.50
	Subtest-2	23.83	24.16	24.09	24.50
	Subtest-3	22.92	23.22	23.18	23.50
	Subtest-4	22.64	22.89	22.86	23.00
HSUPA	Subtest-1	20.84	20.96	20.84	21.00
	Subtest-2	21.16	21.29	21.20	21.50
	Subtest-3	20.99	21.08	21.00	21.50
	Subtest-4	21.22	21.33	21.23	21.50
	Subtest-5	23.07	23.33	23.23	23.50

WCDMA Band V		Conducted Power (dBm)			Tune-up limit (dBm)
		CH4132	CH4183	CH4233	
		826.4MHz	836.6MHz	846.6MHz	
AMR 12.2K		22.25	22.23	21.85	22.50
RMC 12.2K		22.28	22.26	21.88	22.50
HSDPA	Subtest-1	23.54	22.91	22.99	24.00
	Subtest-2	22.66	22.02	20.62	23.00
	Subtest-3	21.91	21.20	19.39	22.00
	Subtest-4	21.40	20.67	18.74	21.50
HSUPA	Subtest-1	20.34	19.78	19.87	20.50
	Subtest-2	20.44	19.98	19.94	20.50
	Subtest-3	20.13	19.76	19.63	20.50
	Subtest-4	20.17	19.60	19.62	20.50
	Subtest-5	23.77	23.20	23.21	24.00

Appendix A:Conducted Power Measurement Results-Bluetooth

Bluetooth						
Mode		Channel	Frequency (MHz)	Peak Power (dBm)	Average Power (dBm)	Tune-up limit (dBm)
EDR	GFSK	0	2402	9.02	9.00	9.00
		39	2441	9.82	9.81	10.00
		78	2480	9.09	9.06	9.50
	$\pi/4$ QPSK	0	2402	9.69	9.30	9.50
		39	2441	10.72	10.25	10.50
		78	2480	9.97	9.55	10.00
	8DPSK	0	2402	9.74	9.34	10.00
		39	2441	10.85	10.35	10.50
		78	2480	10.05	9.58	10.00

Appendix B:SAR Measurement Results-Head

GSM850										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
GPRS 2Tx slots	Left-Cheek	128	824.2	31.38	31.50	1.028	-0.04	0.437	0.449	1
		190	836.6	31.27	31.50	1.054	-	-	-	-
		251	848.8	30.90	31.50	1.148	-	-	-	-
	Left-Tilt	128	824.2	31.38	31.50	1.028	0.04	0.334	0.343	-
		190	836.6	31.27	31.50	1.054	-	-	-	-
		251	848.8	30.90	31.50	1.148	-	-	-	-
	Right-Cheek	128	824.2	31.38	31.50	1.028	0.02	0.405	0.416	-
		190	836.6	31.27	31.50	1.054	-	-	-	-
		251	848.8	30.90	31.50	1.148	-	-	-	-
	Right-Tilt	128	824.2	31.38	31.50	1.028	-0.02	0.307	0.316	-
		190	836.6	31.27	31.50	1.054	-	-	-	-
		251	848.8	30.90	31.50	1.148	-	-	-	-

GSM1900										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
GPRS 2Tx slots	Left-Cheek	512	1850.2	28.43	29.00	1.140	-	-	-	-
		661	1880.0	28.55	29.00	1.109	-0.13	0.292	0.324	2
		810	1909.8	27.89	29.00	1.291	-	-	-	-
	Left-Tilt	512	1850.2	28.43	29.00	1.140	-	-	-	-
		661	1880.0	28.55	29.00	1.109	-0.09	0.235	0.261	-
		810	1909.8	27.89	29.00	1.291	-	-	-	-
	Right-Cheek	512	1850.2	28.43	29.00	1.140	-	-	-	-
		661	1880.0	28.55	29.00	1.109	0.07	0.281	0.312	-
		810	1909.8	27.89	29.00	1.291	-	-	-	-
	Right-Tilt	512	1850.2	28.43	29.00	1.140	-	-	-	-
		661	1880.0	28.55	29.00	1.109	-0.11	0.221	0.245	-
		810	1909.8	27.89	29.00	1.291	-	-	-	-

WCDMA Band II										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
RMC 12.2Kbps	Left-Cheek	9262	1852.4	23.10	23.50	1.096	-	-	-	-
		9400	1880.0	23.11	23.50	1.094	-0.13	0.446	0.488	3
		9538	1907.6	23.11	23.50	1.094	-	-	-	-
	Left-Tilt	9262	1852.4	23.10	23.50	1.096	-	-	-	-
		9400	1880.0	23.11	23.50	1.094	-0.11	0.367	0.401	-
		9538	1907.6	23.11	23.50	1.094	-	-	-	-
	Right-Cheek	9262	1852.4	23.10	23.50	1.096	-	-	-	-
		9400	1880.0	23.11	23.50	1.094	-0.18	0.426	0.466	-
		9538	1907.6	23.11	23.50	1.094	-	-	-	-
	Right-Tilt	9262	1852.4	23.10	23.50	1.096	-	-	-	-
		9400	1880.0	23.11	23.50	1.094	0.06	0.341	0.373	-
		9538	1907.6	23.11	23.50	1.094	-	-	-	-

WCDMA Band V										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
RMC 12.2Kbps	Left-Cheek	4132	826.4	22.28	22.50	1.052	0.04	0.350	0.368	4
		4183	836.6	22.26	22.50	1.057	-	-	-	-
		4233	846.6	21.88	22.50	1.153	-	-	-	-
	Left-Tilt	4132	826.4	22.28	22.50	1.052	-0.04	0.268	0.282	-
		4183	836.6	22.26	22.50	1.057	-	-	-	-
		4233	846.6	21.88	22.50	1.153	-	-	-	-
	Right-Cheek	4132	826.4	22.28	22.50	1.052	-0.02	0.325	0.342	-
		4183	836.6	22.26	22.50	1.057	-	-	-	-
		4233	846.6	21.88	22.50	1.153	-	-	-	-
	Right-Tilt	4132	826.4	22.28	22.50	1.052	0.10	0.246	0.259	-
		4183	836.6	22.26	22.50	1.057	-	-	-	-
		4233	846.6	21.88	22.50	1.153	-	-	-	-

Bluetooth												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
8DPSK	Left-Cheek	0	2402	9.34	10.00	1.164	77.50%	1.290	-	-	-	-
		39	2441	10.35	10.50	1.035	77.50%	1.290	0.13	0.004	0.005	5
		78	2480	9.58	10.00	1.102	77.50%	1.290	-	-	-	-
	Left-Tilt	0	2402	9.34	10.00	1.164	77.50%	1.290	-	-	-	-
		39	2441	10.35	10.50	1.035	77.50%	1.290	-0.18	0.002	0.003	-
		78	2480	9.58	10.00	1.102	77.50%	1.290	-	-	-	-
	Right-Cheek	0	2402	9.34	10.00	1.164	77.50%	1.290	-	-	-	-
		39	2441	10.35	10.50	1.035	77.50%	1.290	-0.07	0.003	0.004	-
		78	2480	9.58	10.00	1.102	77.50%	1.290	-	-	-	-
	Right-Tilt	0	2402	9.34	10.00	1.164	77.50%	1.290	-	-	-	-
		39	2441	10.35	10.50	1.035	77.50%	1.290	0.09	0.001	0.001	-
		78	2480	9.58	10.00	1.102	77.50%	1.290	-	-	-	-

Appendix B:SAR Measurement Results-Body

GSM850										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
GPRS 2Tx slots	Front	128	824.2	31.38	31.50	1.028	0.02	0.409	0.420	-
		190	836.6	31.27	31.50	1.054	-	-	-	-
		251	848.8	30.90	31.50	1.148	-	-	-	-
	Rear	128	824.2	31.38	31.50	1.028	-0.04	0.620	0.637	6
		190	836.6	31.27	31.50	1.054	-	-	-	-
		251	848.8	30.90	31.50	1.148	-	-	-	-

GSM1900										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
GPRS 2Tx slots	Front	512	1850.2	28.43	29.00	1.140	-	-	-	-
		661	1880.0	28.55	29.00	1.109	0.07	0.180	0.200	-
		810	1909.8	27.89	29.00	1.291	-	-	-	-
	Rear	512	1850.2	28.43	29.00	1.140	-	-	-	-
		661	1880.0	28.55	29.00	1.109	-0.09	0.284	0.315	7
		810	1909.8	27.89	29.00	1.291	-	-	-	-

WCDMA Band II										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
RMC 12.2Kbps	Front	9262	1852.4	23.10	23.50	1.096	-	-	-	-
		9400	1880.0	23.11	23.50	1.094	0.03	0.297	0.325	-
		9538	1907.6	23.11	23.50	1.094	-	-	-	-
	Rear	9262	1852.4	23.10	23.50	1.096	-	-	-	-
		9400	1880.0	23.11	23.50	1.094	-0.08	0.418	0.457	8
		9538	1907.6	23.11	23.50	1.094	-	-	-	-

WCDMA Band V										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
RMC 12.2Kbps	Front	4132	826.4	22.28	22.50	1.052	0.05	0.400	0.421	-
		4183	836.6	22.26	22.50	1.057	-	-	-	-
		4233	846.6	21.88	22.50	1.153	-	-	-	-
	Rear	4132	826.4	22.28	22.50	1.052	-0.10	0.606	0.637	9
		4183	836.6	22.26	22.50	1.057	-	-	-	-
		4233	846.6	21.88	22.50	1.153	-	-	-	-

Bluetooth												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
8DPSK	Front	0	2402	9.34	10.00	1.164	0.775	1.290	-	-	-	-
		39	2441	10.35	10.50	1.035	0.775	1.290	-0.05	0.001	0.001	-
		78	2480	9.58	10.00	1.102	0.775	1.290	-	-	-	-
	Rear	0	2402	9.34	10.00	1.164	0.775	1.290	-	-	-	-
		39	2441	10.35	10.50	1.035	0.775	1.290	-0.11	0.002	0.003	10
		78	2480	9.58	10.00	1.102	0.775	1.290	-	-	-	-

Appendix C: Simultaneous Transmission analysis-Head

PCE + Bluetooth					
WWAN Band		Exposure Position	Max SAR (W/kg)		Summed SAR
			PCE	BT	(W/kg)
GSM	GSM850	Left Cheek	0.449	0.005	0.454
		Left Tilted	0.343	0.003	0.346
		Right Cheek	0.416	0.004	0.420
		Right Tilted	0.316	0.001	0.317
	GSM1900	Left Cheek	0.324	0.005	0.329
		Left Tilted	0.261	0.003	0.264
		Right Cheek	0.312	0.004	0.316
		Right Tilted	0.245	0.001	0.246
WCDMA	Band II	Left Cheek	0.488	0.005	0.493
		Left Tilted	0.401	0.003	0.404
		Right Cheek	0.466	0.004	0.470
		Right Tilted	0.373	0.001	0.374
	Band V	Left Cheek	0.368	0.005	0.373
		Left Tilted	0.282	0.003	0.285
		Right Cheek	0.342	0.004	0.346
		Right Tilted	0.259	0.001	0.260

Appendix C: Simultaneous Transmission analysis-Body

PCE + BT					
WWAN Band		Exposure Position	Max SAR (W/kg)		Summed SAR
			PCE	BT	(W/kg)
GSM	GSM850	Front	0.420	0.001	0.421
		Rear	0.637	0.003	0.640
	GSM1900	Front	0.200	0.001	0.201
		Rear	0.315	0.003	0.318
WCDMA	Band II	Front	0.325	0.001	0.326
		Rear	0.457	0.003	0.460
	Band V	Front	0.421	0.001	0.422
		Rear	0.637	0.003	0.640