



Applicant name: Shenzhen Xinguodu Technology Co., Ltd.

Product Type: POS Terminal

Model Name: N82

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1. Introduction

This document describes a POS with WWAN / WLAN / NFC radio function which the relevant RF output power to meet the FCC criteria for specific absorption rate (SAR) when hand-held use the device.

There are supported GSM, WCDMA, LTE, WiFi and NFC, the detail technologies are listed in the table 1-1. The device outlook shown in the figure 1-1, 1-2, 1-3, the use condition shown in the figure 1-4.

Table 1-1 EUT RF Technology Table

Band	Transmit Frequency (MHz)
GSM850	824-849
PCS1900	1850-1910
WCDMA BII	1850-1910
WCDMA BV	824-849
LTE B2	1850 -1910
LTE B4	1710-1755
LTE B5	824-849
LTE B7	2500-2570
802.11 b/g/n	2412~2462
802.11 a/n	5150~5725
BT	2400~2483.5

Figure 1-1 Front Face



Figure 1-2 Rear Face



Figure 1-3 Left side

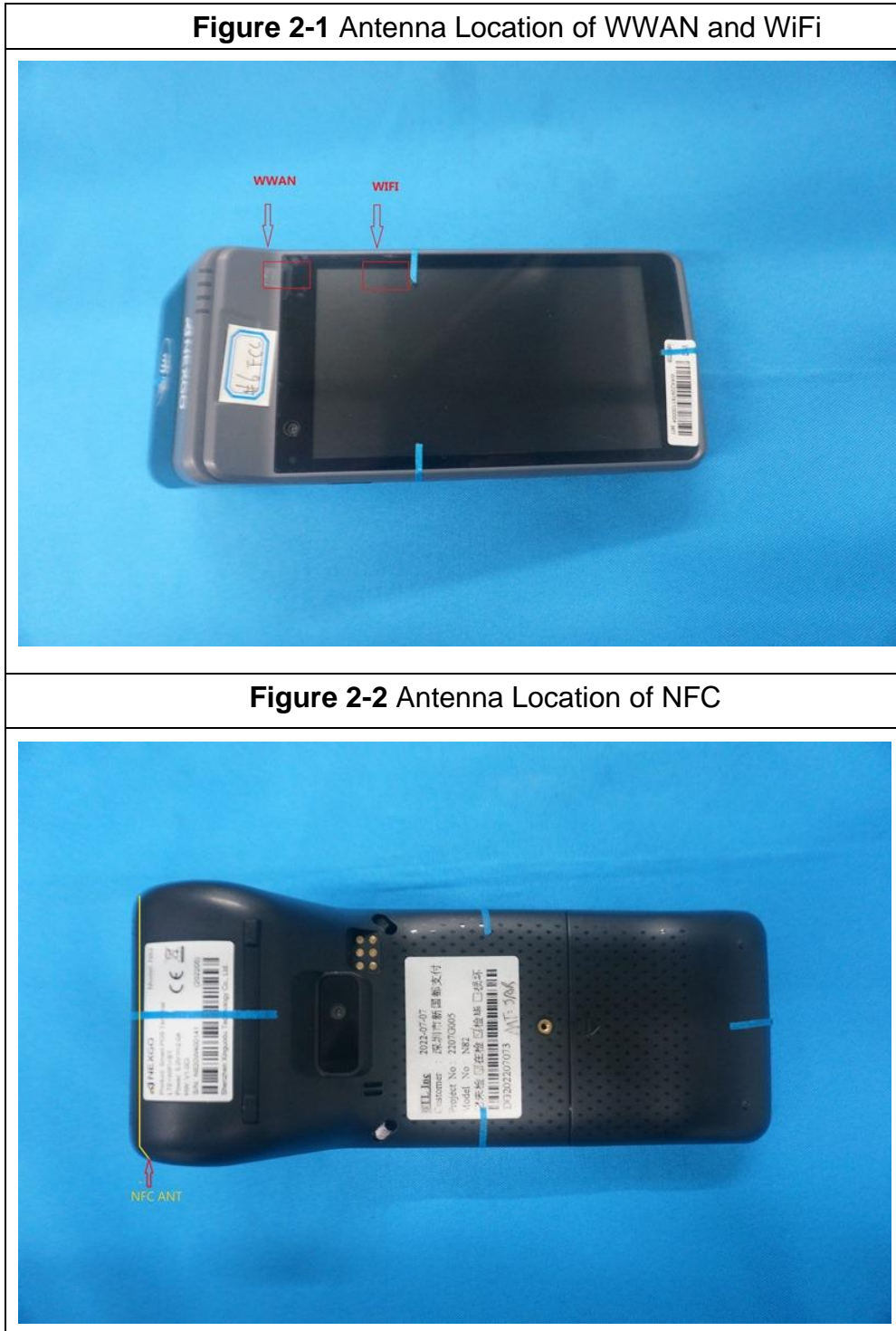


Figure 1-4 Use pattern



2. Antenna description & RF output power considerations

The actual antenna locations are illustrated in the figure 2-1~2-2, and the antenna configuration is listed in the table 2-1~2-5.



The NFC is a loop antenna and it's local the rear face.



Table 2-1 RF Power Spec of GSM

GSM850		Target Power	Tolerance(dB) +/-	Max.Tune-up (dBm)
GPRS/EDGE (GMSK)	1 Tx Slot	32.00	1.00	33.00
	2 Tx Slot	31.50	1.00	32.50
	3 Tx Slot	30.00	1.00	31.00
	4 Tx Slot	29.00	1.00	30.00
EDGE (8PSK)	1 Tx Slot	27.00	1.00	28.00
	2 Tx Slot	26.00	1.00	27.00
	3 Tx Slot	23.00	1.00	24.00
	4 Tx Slot	22.00	1.00	23.00
GSM1900		Target Power	Tolerance(dB) +/-	Max.Tune-up (dBm)
GPRS/EDGE (GMSK)	1 Tx Slot	30.00	1.00	31.00
	2 Tx Slot	29.00	1.00	30.00
	3 Tx Slot	28.00	1.00	29.00
	4 Tx Slot	27.00	1.00	28.00
EDGE (8PSK)	1 Tx Slot	26.50	1.00	27.50
	2 Tx Slot	25.50	1.00	26.50
	3 Tx Slot	23.50	1.00	24.50
	4 Tx Slot	22.00	1.00	23.00



Table 2-2 RF Power Spec of WCDMA

Band	UMTS B2			UMTS B5		
	Target Power	Tolerance (dB) +/-	Max.Tune-up (dBm)	Target Power	Tolerance (dB) +/-	Max.Tune-up (dBm)
RMC 12.2K	23.00	1.00	24.00	23.00	1.00	24.00
HSDPA Subtest-1	21.50	1.00	22.50	21.50	1.00	22.50
HSDPA Subtest-2	21.50	1.00	22.50	21.50	1.00	22.50
HSDPA Subtest-3	21.00	1.00	22.00	21.00	1.00	22.00
HSDPA Subtest-4	21.00	1.00	22.00	21.00	1.00	22.00
HSUPA Subtest-1	19.50	1.00	20.50	19.50	1.00	20.50
HSUPA Subtest-2	19.50	1.00	20.50	19.50	1.00	20.50
HSUPA Subtest-3	20.00	1.00	21.00	20.00	1.00	21.00
HSUPA Subtest-4	19.50	1.00	20.50	19.50	1.00	20.50
HSUPA Subtest-5	21.00	1.00	22.00	21.00	1.00	22.00
DC-HSDPA Subtest-1	21.50	1.00	22.50	21.50	1.00	22.50
DC-HSDPA Subtest-2	21.50	1.00	22.50	21.50	1.00	22.50
DC-HSDPA Subtest-3	21.00	1.00	22.00	21.00	1.00	22.00
DC-HSDPA Subtest-4	21.00	1.00	22.00	21.00	1.00	22.00
HSPA+	21.00	1.00	22.00	21.00	1.00	22.00



Table 2-3 RF Power Spec of LTE

LTE B2				
Modulation	RB Size/Offset	Target Power	Tolerance (dB) +/-	Max. Tune-up (dBm)
QPSK	1/0	24.00	1.00	25.00
	1/50	24.00	1.00	25.00
	1/99	24.00	1.00	25.00
	50/0	23.00	1.00	24.00
	50/25	23.00	1.00	24.00
	50/50	23.00	1.00	24.00
	100/0	23.00	1.00	24.00
16QAM	1/0	23.00	1.00	24.00
	1/50	23.00	1.00	24.00
	1/99	23.00	1.00	24.00
	50/0	22.00	1.00	23.00
	50/25	22.00	1.00	23.00
	50/50	22.00	1.00	23.00
	100/0	22.00	1.00	23.00
64QAM	1/0	22.00	1.00	23.00
	1/50	22.00	1.00	23.00
	1/99	22.00	1.00	23.00
	50/0	21.00	1.00	22.00
	50/25	21.00	1.00	22.00
	50/50	21.00	1.00	22.00
	100/0	21.00	1.00	22.00
LTE B4				
Modulation	RB Size/Offset	Target Power	Tolerance(dBm)	Max. Tune-up (dBm)
QPSK	1/0	23.00	1.00	24.00
	1/50	23.00	1.00	24.00
	1/99	23.00	1.00	24.00
	50/0	22.00	1.00	23.00
	50/25	22.00	1.00	23.00
	50/50	22.00	1.00	23.00
	100/0	22.00	1.00	23.00
16QAM	1/0	22.00	1.00	23.00



	1/50	22.00	1.00	23.00
	1/99	22.00	1.00	23.00
	50/0	21.00	1.00	22.00
	50/25	21.00	1.00	22.00
	50/50	21.00	1.00	22.00
	100/0	21.00	1.00	22.00
64QAM	1/0	21.00	1.00	22.00
	1/50	21.00	1.00	22.00
	1/99	21.00	1.00	22.00
	50/0	20.00	1.00	21.00
	50/25	20.00	1.00	21.00
	50/50	20.00	1.00	21.00
	100/0	20.00	1.00	21.00
LTE B5				
Modulation	RB Size/Offset	Target Power	Tolerance(dBm)	Max. Tune-up (dBm)
QPSK	1/0	23.00	1.00	24.00
	1/24	23.00	1.00	24.00
	1/49	23.00	1.00	24.00
	25/0	22.00	1.00	23.00
	25/12	22.00	1.00	23.00
	25/25	22.00	1.00	23.00
	50/0	22.00	1.00	23.00
16QAM	1/0	22.00	1.00	23.00
	1/24	22.00	1.00	23.00
	1/49	22.00	1.00	23.00
	25/0	21.00	1.00	22.00
	25/12	21.00	1.00	22.00
	25/25	21.00	1.00	22.00
	50/0	21.00	1.00	22.00
64QAM	1/0	21.00	1.00	22.00
	1/24	21.00	1.00	22.00
	1/49	21.00	1.00	22.00
	25/0	20.00	1.00	21.00
	25/12	20.00	1.00	21.00
	25/25	20.00	1.00	21.00



	50/0	20.00	1.00	21.00
LTE B7				
Modulation	RB Size/Offset	Target Power	Tolerance(dBm)	Max. Tune-up (dBm)
QPSK	1/0	24.00	1.00	25.00
	1/50	24.00	1.00	25.00
	1/99	24.00	1.00	25.00
	50/0	23.00	1.00	24.00
	50/25	23.00	1.00	24.00
	50/50	23.00	1.00	24.00
	100/0	23.00	1.00	24.00
16QAM	1/0	23.00	1.00	24.00
	1/50	23.00	1.00	24.00
	1/99	23.00	1.00	24.00
	50/0	22.00	1.00	23.00
	50/25	22.00	1.00	23.00
	50/50	22.00	1.00	23.00
	100/0	22.00	1.00	23.00
64QAM	1/0	22.00	1.00	23.00
	1/50	22.00	1.00	23.00
	1/99	22.00	1.00	23.00
	50/0	21.00	1.00	22.00
	50/25	21.00	1.00	22.00
	50/50	21.00	1.00	22.00
	100/0	21.00	1.00	22.00



Table 2-4 RF Power Spec of WiFi

Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Target Power	Tolerance (dB) +/-	Max.Tune-up (dBm)
802.11b	1	2412	1	16.00	1.00	17.00
	6	2437		14.00	1.00	15.00
	11	2462		16.00	1.00	17.00
802.11g	1	2412	6	12.00	1.00	13.00
	6	2437		12.00	1.00	13.00
	11	2462		12.00	1.00	13.00
802.11n HT20	1	2412	MCS0	12.00	1.00	13.00
	6	2437		12.00	1.00	13.00
	11	2462		12.00	1.00	13.00
802.11n HT40	3	2422	MCS0	12.00	1.00	13.00
	6	2437		12.00	1.00	13.00
	9	2452		12.00	1.00	13.00
802.11a	36	5180	6	11.00	1.00	12.00
	40	5200		11.00	1.00	12.00
	44	5220		11.00	1.00	12.00
	48	5240		11.00	1.00	12.00
802.11n HT20	36	5180	MCS0	11.00	1.00	12.00
	40	5200		11.00	1.00	12.00
	44	5220		11.00	1.00	12.00
	48	5240		11.00	1.00	12.00
802.11n HT40	38	5190	MCS0	8.00	1.00	9.00
	46	5230		11.00	1.00	12.00
802.11a	52	5260	6	11.00	1.00	12.00
	56	5280		11.00	1.00	12.00
	60	5300		11.00	1.00	12.00
	64	5320		11.00	1.00	12.00
802.11n HT20	52	5260	MCS0	11.00	1.00	12.00
	56	5280		11.00	1.00	12.00
	60	5300		11.00	1.00	12.00
	64	5320		11.00	1.00	12.00
802.11n HT40	54	5270	MCS0	11.00	1.00	12.00
	62	5310		9.00	1.00	10.00
802.11a	100	5500	6	11.00	1.00	12.00
	104	5520		11.00	1.00	12.00



	108	5540		11.00	1.00	12.00
	112	5560		11.00	1.00	12.00
	116	5580		11.00	1.00	12.00
	132	5660		11.00	1.00	12.00
	136	5680		11.00	1.00	12.00
	140	5700		11.00	1.00	12.00
802.11n HT20	100	5500	MCS0	11.00	1.00	12.00
	104	5520		11.00	1.00	12.00
	108	5540		11.00	1.00	12.00
	112	5560		11.00	1.00	12.00
	116	5580		11.00	1.00	12.00
	132	5660		11.00	1.00	12.00
	136	5680		11.00	1.00	12.00
	140	5700		11.00	1.00	12.00
802.11n HT40	102	5510	MCS0	11.00	1.00	12.00
	110	5550		11.00	1.00	12.00
	118	5590		11.00	1.00	12.00
	126	5630		11.00	1.00	12.00
	134	5670		11.00	1.00	12.00
802.11a	149	5745	6	11.00	1.00	12.00
	153	5765		11.00	1.00	12.00
	157	5785		11.00	1.00	12.00
	161	5805		11.00	1.00	12.00
	165	5825		11.00	1.00	12.00
802.11n HT20	149	5745	MCS0	11.00	1.00	12.00
	153	5765		11.00	1.00	12.00
	157	5785		11.00	1.00	12.00
	161	5805		11.00	1.00	12.00
	165	5825		11.00	1.00	12.00
802.11n HT40	151	5755	MCS0	11.00	1.00	12.00
	159	5795		11.00	1.00	12.00

Table 2-5 RF Power Spec of BT / NFC

BT	Target Power	Tolerance (dB) +/-	Max.Tune-up (dBm)
DH5	6.50	1.00	7.50
2DH5	6.00	1.00	7.00
3DH5	6.00	1.00	7.00
BLE(1M)	7.00	1.00	8.00
NFC	-10	1.0	-9

3. NFC power thresholds

Pre KDB 447498 D04 ch 2.1.2, because the NFC antenna is local on top of the POS, so the antenna close to the human only at the use the credit card or touch pay, the distance should be 5mm.

The NFC Tune-up power only -9dBm(0.126mW) is under the 1mW, it's meets the 1-mW test Exemption condition. the NFC SAR is not required, and the NFC will not simultaneous transmission with WWAN or WiFi.

4. SAR Test Photo

Since the POS device is a handheld device, it does not support the phone function, so it cannot be used for the head and body. We only need to perform the limb SAR test and hotspot mode for evaluation. The test photos are as follows:

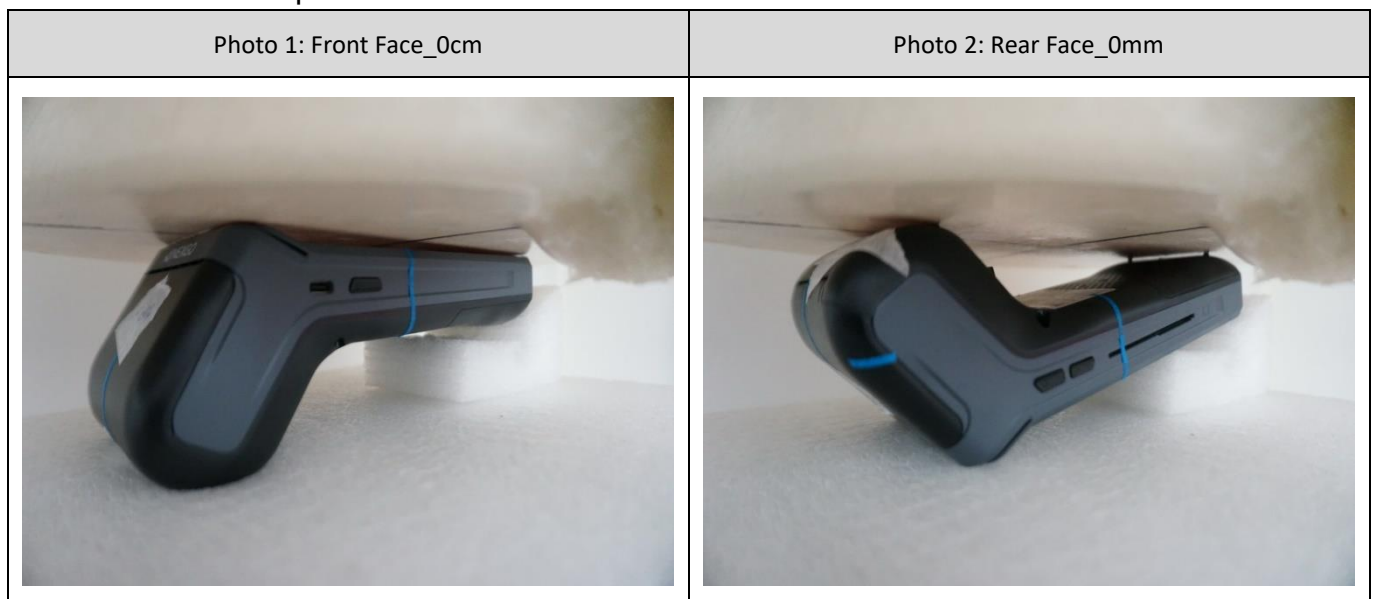


Photo 3: Left Side_0cm



Photo 4: Right Side_0cm



Photo 5: Top Side1_0cm



Photo 6: Top Side2_0cm

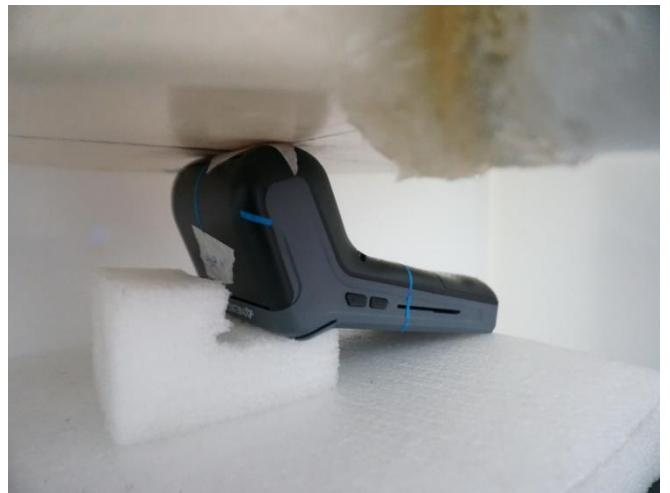


Photo 7: Bottom Side_0cm



Photo 8: Front Face_1cm



Photo 9: Rear Face_1cm



Photo 10: Left Side_1cm



Photo 11: Right Side_1cm



Photo 12: Top Side1_1cm



Photo 13: Top Side2_1cm



Photo 14: Bottom Side_1cm





5. .WWAN & WiFi SAR Test Result

The extremity SAR results as follow and the SAR are under the 4.0 mW/g at 10g.

1. SAR test results of GSM

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 10g SAR
G01	GSM 850	GPRS4TX	190	Front Face	0	1	1	30	29.77	0.03	0.207	0.218
G02	GSM 850	GPRS4TX	190	Rear Face	0	1	1	30	29.77	0.01	0.343	0.362
G03	GSM 850	GPRS4TX	190	Left Side	0	1	1	30	29.77	-0.04	0.324	0.342
G04	GSM 850	GPRS4TX	190	Right Side	0	1	1	30	29.77	0.11	1.030	1.086
G05	GSM 850	GPRS4TX	190	Top Side1	0	1	1	30	29.77	0.01	0.284	0.299
G06	GSM 850	GPRS4TX	190	Top Side2	0	1	1	30	29.77	-0.11	0.151	0.159
G07	GSM 850	GPRS4TX	190	Bottom Side	0	1	1	30	29.77	-0.13	0.037	0.039
G08	GSM 850	GPRS4TX	190	Right Side	0	2	1	30	29.77	0.06	0.963	1.015
G11	GSM 1900	GPRS4TX	661	Front Face	0	1	1	28	27.73	-0.02	0.436	0.464
G12	GSM 1900	GPRS4TX	661	Rear Face	0	1	1	28	27.73	0.03	0.223	0.237
G13	GSM 1900	GPRS4TX	661	Left Side	0	1	1	28	27.73	-0.01	0.102	0.109
G14	GSM 1900	GPRS4TX	661	Right Side	0	1	1	28	27.73	-0.14	1.660	1.766
G15	GSM 1900	GPRS4TX	661	Top Side1	0	1	1	28	27.73	0.04	0.151	0.161
G16	GSM 1900	GPRS4TX	661	Top Side2	0	1	1	28	27.73	0.01	0.122	0.130
G17	GSM 1900	GPRS4TX	661	Bottom Side	0	1	1	28	27.73	0.09	0.068	0.072
G18	GSM 1900	GPRS4TX	661	Right Side	0	2	1	28	27.73	0.12	1.410	1.500

Note: The value with boldface is the maximum SAR Value of each test band.



2. SAR test results of UMTS

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 10g SAR
U01	UMTS B2	RMC12.2K	9400	Front Face	0	1	1	24	23.25	-0.08	0.225	0.267
U02	UMTS B2	RMC12.2K	9400	Rear Face	0	1	1	24	23.25	0.09	0.122	0.145
U03	UMTS B2	RMC12.2K	9400	Left Side	0	1	1	24	23.25	-0.15	0.061	0.072
U04	UMTS B2	RMC12.2K	9400	Right Side	0	1	1	24	23.25	-0.05	1.060	1.260
U05	UMTS B2	RMC12.2K	9400	Top Side1	0	1	1	24	23.25	0.11	0.094	0.112
U06	UMTS B2	RMC12.2K	9400	Top Side2	0	1	1	24	23.25	0.02	0.081	0.096
U07	UMTS B2	RMC12.2K	9400	Bottom Side	0	1	1	24	23.25	0.03	0.040	0.047
U08	UMTS B2	RMC12.2K	9400	Right Side	0	2	1	24	23.25	0.15	0.922	1.096
U11	UMTS B5	RMC12.2K	4182	Front Face	0	1	1	24	23.17	0.02	0.041	0.050
U12	UMTS B5	RMC12.2K	4182	Rear Face	0	1	1	24	23.17	0.06	0.119	0.144
U13	UMTS B5	RMC12.2K	4182	Left Side	0	1	1	24	23.17	-0.01	0.203	0.246
U14	UMTS B5	RMC12.2K	4182	Right Side	0	1	1	24	23.17	-0.09	0.542	0.656
U15	UMTS B5	RMC12.2K	4182	Top Side1	0	1	1	24	23.17	-0.04	0.041	0.050
U16	UMTS B5	RMC12.2K	4182	Top Side2	0	1	1	24	23.17	0.07	0.084	0.102
U17	UMTS B5	RMC12.2K	4182	Bottom Side	0	1	1	24	23.17	0.04	0.030	0.036
U18	UMTS B5	RMC12.2K	4182	Right Side	0	2	1	24	23.17	-0.17	0.489	0.592

Note: The value with boldface is the maximum SAR Value of each test band.



3. SAR test results of LTE

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 1g SAR
L01	LTE B2	QPSK20M	18700	1	50	Front Face	0	1	1	25	24.37	0.05	0.349	0.403
L02	LTE B2	QPSK20M	18700	1	50	Rear Face	0	1	1	25	24.37	0.16	0.158	0.183
L03	LTE B2	QPSK20M	18700	1	50	Left Side	0	1	1	25	24.37	-0.04	0.078	0.090
L04	LTE B2	QPSK20M	18700	1	50	Right Side	0	1	1	25	24.37	-0.01	1.070	1.237
L05	LTE B2	QPSK20M	18700	1	50	Top Side1	0	1	1	25	24.37	-0.13	0.087	0.101
L06	LTE B2	QPSK20M	18700	1	50	Top Side2	0	1	1	25	24.37	0.01	0.099	0.114
L07	LTE B2	QPSK20M	18700	1	50	Bottom Side	0	1	1	25	24.37	-0.04	0.046	0.053
L08	LTE B2	QPSK20M	18700	50	0	Front Face	0	1	1	24	23.22	0.01	0.253	0.303
L09	LTE B2	QPSK20M	18700	50	0	Rear Face	0	1	1	24	23.22	0.09	0.107	0.128
L10	LTE B2	QPSK20M	18700	50	0	Left Side	0	1	1	24	23.22	0.04	0.053	0.063
L11	LTE B2	QPSK20M	18700	50	0	Right Side	0	1	1	24	23.22	-0.04	0.835	1.000
L12	LTE B2	QPSK20M	18700	50	0	Top Side1	0	1	1	24	23.22	-0.11	0.070	0.084
L13	LTE B2	QPSK20M	18700	50	0	Top Side2	0	1	1	24	23.22	-0.17	0.076	0.091
L14	LTE B2	QPSK20M	18700	50	0	Bottom Side	0	1	1	24	23.22	-0.16	0.046	0.055
L15	LTE B2	QPSK20M	18700	1	50	Right Side	0	2	1	25	24.37	0.02	0.966	1.117



Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 1g SAR
L19	LTE B4	QPSK20M	20175	1	50	Front Face	0	1	1	24	23.91	0.08	0.376	0.384
L20	LTE B4	QPSK20M	20175	1	50	Rear Face	0	1	1	24	23.91	0.14	0.125	0.128
L21	LTE B4	QPSK20M	20175	1	50	Left Side	0	1	1	24	23.91	-0.09	0.037	0.038
L22	LTE B4	QPSK20M	20175	1	50	Right Side	0	1	1	24	23.91	-0.05	1.080	1.103
L23	LTE B4	QPSK20M	20175	1	50	Top Side1	0	1	1	24	23.91	0.01	0.099	0.101
L24	LTE B4	QPSK20M	20175	1	50	Top Side2	0	1	1	24	23.91	0.07	0.088	0.089
L25	LTE B4	QPSK20M	20175	1	50	Bottom Side	0	1	1	24	23.91	0.09	0.034	0.034
L26	LTE B4	QPSK20M	20175	50	0	Front Face	0	1	1	23	22.74	-0.16	0.296	0.314
L27	LTE B4	QPSK20M	20175	50	0	Rear Face	0	1	1	23	22.74	0.03	0.103	0.109
L28	LTE B4	QPSK20M	20175	50	0	Left Side	0	1	1	23	22.74	-0.11	0.026	0.027
L29	LTE B4	QPSK20M	20175	50	0	Right Side	0	1	1	23	22.74	-0.02	0.780	0.828
L30	LTE B4	QPSK20M	20175	50	0	Top Side1	0	1	1	23	22.74	0.04	0.019	0.020
L31	LTE B4	QPSK20M	20175	50	0	Top Side2	0	1	1	23	22.74	-0.05	0.072	0.077
L32	LTE B4	QPSK20M	20175	50	0	Bottom Side	0	1	1	23	22.74	0.18	0.022	0.023
L33	LTE B4	QPSK20M	20175	1	50	Right Side	0	2	1	24	23.91	0.01	0.833	0.850



Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 1g SAR
L37	LTE B5	QPSK10M	20600	1	24	Front Face	0	1	1	24	23.68	0.07	0.131	0.141
L38	LTE B5	QPSK10M	20600	1	24	Rear Face	0	1	1	24	23.68	0.11	0.170	0.183
L39	LTE B5	QPSK10M	20600	1	24	Left Side	0	1	1	24	23.68	0.06	0.193	0.208
L40	LTE B5	QPSK10M	20600	1	24	Right Side	0	1	1	24	23.68	-0.04	0.494	0.532
L41	LTE B5	QPSK10M	20600	1	24	Top Side1	0	1	1	24	23.68	-0.13	0.143	0.154
L42	LTE B5	QPSK10M	20600	1	24	Top Side2	0	1	1	24	23.68	0.01	0.114	0.123
L43	LTE B5	QPSK10M	20600	1	24	Bottom Side	0	1	1	24	23.68	0.07	0.026	0.028
L44	LTE B5	QPSK10M	20600	25	12	Front Face	0	1	1	23	22.56	-0.14	0.102	0.113
L45	LTE B5	QPSK10M	20600	25	12	Rear Face	0	1	1	23	22.56	0.05	0.148	0.164
L46	LTE B5	QPSK10M	20600	25	12	Left Side	0	1	1	23	22.56	-0.02	0.142	0.157
L47	LTE B5	QPSK10M	20600	25	12	Right Side	0	1	1	23	22.56	0.03	0.388	0.429
L48	LTE B5	QPSK10M	20600	25	12	Top Side1	0	1	1	23	22.56	0.15	0.147	0.163
L49	LTE B5	QPSK10M	20600	25	12	Top Side2	0	1	1	23	22.56	-0.11	0.086	0.096
L50	LTE B5	QPSK10M	20600	25	12	Bottom Side	0	1	1	23	22.56	0.03	0.028	0.031
L51	LTE B5	QPSK10M	20600	1	24	Right Side	0	2	1	24	23.68	0.09	0.456	0.491



Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 1g SAR
L55	LTE B7	QPSK20M	20850	1	50	Front Face	0	1	1	25	24.69	0.01	0.484	0.520
L56	LTE B7	QPSK20M	20850	1	50	Rear Face	0	1	1	25	24.69	0	0.471	0.506
L57	LTE B7	QPSK20M	20850	1	50	Left Side	0	1	1	25	24.69	0.05	0.237	0.255
L58	LTE B7	QPSK20M	20850	1	50	Right Side	0	1	1	25	24.69	-0.04	1.470	1.579
L59	LTE B7	QPSK20M	20850	1	50	Top Side1	0	1	1	25	24.69	0.01	0.222	0.238
L60	LTE B7	QPSK20M	20850	1	50	Top Side2	0	1	1	25	24.69	-0.05	0.250	0.268
L61	LTE B7	QPSK20M	20850	1	50	Bottom Side	0	1	1	25	24.69	0.02	0.031	0.033
L62	LTE B7	QPSK20M	21100	50	50	Front Face	0	1	1	24	23.54	0.08	0.345	0.384
L63	LTE B7	QPSK20M	21100	50	50	Rear Face	0	1	1	24	23.54	0.13	0.477	0.531
L64	LTE B7	QPSK20M	21100	50	50	Left Side	0	1	1	24	23.54	0.05	0.307	0.342
L65	LTE B7	QPSK20M	21100	50	50	Right Side	0	1	1	24	23.54	0.13	1.230	1.369
L66	LTE B7	QPSK20M	21100	50	50	Top Side1	0	1	1	24	23.54	-0.04	0.182	0.203
L67	LTE B7	QPSK20M	21100	50	50	Top Side2	0	1	1	24	23.54	0.06	0.177	0.197
L68	LTE B7	QPSK20M	21100	50	50	Bottom Side	0	1	1	24	23.54	0.08	0.021	0.024
L69	LTE B7	QPSK20M	20850	1	50	Right Side	0	2	1	25	24.69	0.11	1.230	1.321

Note: The value with boldface is the maximum SAR Value of each test band.



4. SAR test results of WIFI 2.4G

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Data Rate	Ant	Duty Cycle (%)	Duty Factor	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 10g SAR
W01	802.11b	11	Front Face	0	1	2	97.56	1.03	17	16.62	0.06	0.043	0.048
W02	802.11b	11	Rear Face	0	1	2	97.56	1.03	17	16.62	-0.11	0.046	0.051
W03	802.11b	11	Left Side	0	1	2	97.56	1.03	17	16.62	0.08	0.025	0.028
W04	802.11b	11	Right Side	0	1	2	97.56	1.03	17	16.62	-0.04	0.365	0.408
W05	802.11b	11	Top Side1	0	1	2	97.56	1.03	17	16.62	0.14	<0.001	<0.001
W06	802.11b	11	Top Side2	0	1	2	97.56	1.03	17	16.62	-0.01	0.013	0.015
W07	802.11b	11	Bottom Side	0	1	2	97.56	1.03	17	16.62	0.01	0.025	0.028

Note: The value with boldface is the maximum SAR Value of each test band.

5. SAR test results of BT

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Data Rate	Ant	Duty Cycle (%)	Duty Factor	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 10g SAR
B01	BT BLE	0	Front Face	0	1	2	76.73	1.30	8	7.77	0.08	0.001	0.002
B02	BT BLE	0	Rear Face	0	1	2	76.73	1.30	8	7.77	-0.16	0.001	0.001
B03	BT BLE	0	Left Side	0	1	2	76.73	1.30	8	7.77	0.02	<0.001	<0.001
B04	BT BLE	0	Right Side	0	1	2	76.73	1.30	8	7.77	-0.03	0.008	0.011
B05	BT BLE	0	Top Side1	0	1	2	76.73	1.30	8	7.77	-0.08	<0.001	<0.001
B06	BT BLE	0	Top Side2	0	1	2	76.73	1.30	8	7.77	0.14	0.001	0.001
B07	BT BLE	0	Bottom Side	0	1	2	76.73	1.30	8	7.77	-0.11	<0.001	<0.001

Note: The value with boldface is the maximum SAR Value of each test band.



6. SAR test results of WIFI 5G

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Data Rate	Ant	Duty Cycle %	Duty Factor	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 10g SAR
W17	802.11n HT40	54	Front Face	0	MCS0	2	94.92	1.05	12	11.85	0.11	0.012	0.013
W18	802.11n HT40	54	Rear Face	0	MCS0	2	94.92	1.05	12	11.85	0.02	0.025	0.027
W19	802.11n HT40	54	Left Side	0	MCS0	2	94.92	1.05	12	11.85	-0.04	0.010	0.011
W20	802.11n HT40	54	Right Side	0	MCS0	2	94.92	1.05	12	11.85	-0.05	0.290	0.316
W21	802.11n HT40	54	Top Side1	0	MCS0	2	94.92	1.05	12	11.85	-0.13	0.008	0.009
W22	802.11n HT40	54	Top Side2	0	MCS0	2	94.92	1.05	12	11.85	-0.01	0.011	0.012
W23	802.11n HT40	54	Bottom Side	0	MCS0	2	94.92	1.05	12	11.85	0.06	0.002	0.002
W25	802.11n HT40	110	Front Face	0	MCS0	2	94.92	1.05	12	11.97	-0.05	0.026	0.028
W26	802.11n HT40	110	Rear Face	0	MCS0	2	94.92	1.05	12	11.97	0.01	0.028	0.029
W27	802.11n HT40	110	Left Side	0	MCS0	2	94.92	1.05	12	11.97	0.16	0.027	0.028
W28	802.11n HT40	110	Right Side	0	MCS0	2	94.92	1.05	12	11.97	-0.08	0.310	0.329
W29	802.11n HT40	110	Top Side1	0	MCS0	2	94.92	1.05	12	11.97	-0.09	0.029	0.031
W30	802.11n HT40	110	Top Side2	0	MCS0	2	94.92	1.05	12	11.97	0.04	0.018	0.020
W31	802.11n HT40	110	Bottom Side	0	MCS0	2	94.92	1.05	12	11.97	0.05	0.027	0.028
W33	802.11n HT40	151	Front Face	0	MCS0	2	94.92	1.05	12	11.76	0.01	0.071	0.078
W34	802.11n HT40	151	Rear Face	0	MCS0	2	94.92	1.05	12	11.76	-0.01	0.029	0.032



W35	802.11n HT40	151	Left Side	0	MCS0	2	94.92	1.05	12	11.76	0.02	0.020	0.022
W36	802.11n HT40	151	Right Side	0	MCS0	2	94.92	1.05	12	11.76	-0.08	0.111	0.124
W37	802.11n HT40	151	Top Side1	0	MCS0	2	94.92	1.05	12	11.76	0.06	0.002	0.002
W38	802.11n HT40	151	Top Side2	0	MCS0	2	94.92	1.05	12	11.76	0.11	0.016	0.017
W39	802.11n HT40	151	Bottom Side	0	MCS0	2	94.92	1.05	12	11.76	0.05	<0.001	<0.001

Note: The value with boldface is the maximum SAR Value of each test band.



The hotspot mode SAR results as follow and the SAR are under the 1.6 mW/g at 1g.

1. SAR test results of GSM

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	Reported 1g SAR
G20	GSM 850	GPRS4TX	190	Front Face	1	1	1	30	29.77	0.03	0.251	0.265
G21	GSM 850	GPRS4TX	190	Rear Face	1	1	1	30	29.77	0.02	0.184	0.194
G22	GSM 850	GPRS4TX	190	Left Side	1	1	1	30	29.77	0.12	0.24	0.253
G23	GSM 850	GPRS4TX	190	Right Side	1	1	1	30	29.77	-0.04	0.476	0.502
G24	GSM 850	GPRS4TX	190	Top Side1	1	1	1	30	29.77	0.07	0.153	0.161
G25	GSM 850	GPRS4TX	190	Top Side2	1	1	1	30	29.77	-0.03	0.105	0.111
G26	GSM 850	GPRS4TX	190	Bottom Side	1	1	1	30	29.77	0.04	0.0234	0.025
G27	GSM 850	GPRS4TX	190	Right Side	1	2	1	30	29.77	-0.06	0.480	0.506
G29	GSM 1900	GPRS4TX	661	Front Face	1	1	1	28	27.73	0.02	0.358	0.381
G30	GSM 1900	GPRS4TX	661	Rear Face	1	1	1	28	27.73	0.09	0.191	0.203
G31	GSM 1900	GPRS4TX	661	Left Side	1	1	1	28	27.73	-0.04	0.079	0.084
G32	GSM 1900	GPRS4TX	661	Right Side	1	1	1	28	27.73	-0.08	0.957	1.018
G33	GSM 1900	GPRS4TX	661	Top Side1	1	1	1	28	27.73	0.13	0.134	0.143
G34	GSM 1900	GPRS4TX	661	Top Side2	1	1	1	28	27.73	0.01	0.106	0.113
G35	GSM 1900	GPRS4TX	661	Bottom Side	1	1	1	28	27.73	-0.05	0.08	0.085
G36	GSM 1900	GPRS4TX	512	Right Side	1	1	1	28	27.21	-0.07	0.978	1.173
G37	GSM 1900	GPRS4TX	810	Right Side	1	1	1	28	27.56	-0.04	0.864	0.956
G38	GSM 1900	GPRS4TX	512	Right Side	1	2	1	28	27.21	0.03	0.963	1.155
G39	GSM 1900	GPRS4TX	512	Right Side (Repeated)	1	1	1	28	27.21	-0.07	0.955	1.146

Note: The value with boldface is the maximum SAR Value of each test band.



2. SAR test results of UMTS

Test No.	Band	Mode	Channel	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	Reported 1g SAR
U20	UMTS B2	RMC12.2K	9400	Front Face	1	1	1	24	23.25	0.03	0.184	0.219
U21	UMTS B2	RMC12.2K	9400	Rear Face	1	1	1	24	23.25	0.01	0.097	0.116
U22	UMTS B2	RMC12.2K	9400	Left Side	1	1	1	24	23.25	0.06	0.027	0.032
U23	UMTS B2	RMC12.2K	9400	Right Side	1	1	1	24	23.25	-0.02	0.500	0.594
U24	UMTS B2	RMC12.2K	9400	Top Side1	1	1	1	24	23.25	0.09	0.030	0.036
U25	UMTS B2	RMC12.2K	9400	Top Side2	1	1	1	24	23.25	0.12	0.065	0.077
U26	UMTS B2	RMC12.2K	9400	Bottom Side	1	1	1	24	23.25	0.04	0.023	0.028
U27	UMTS B2	RMC12.2K	9400	Right Side	1	2	1	24	23.25	0.06	0.469	0.557
U29	UMTS B5	RMC12.2K	4182	Front Face	1	1	1	24	23.17	0.03	0.036	0.021
U30	UMTS B5	RMC12.2K	4182	Rear Face	1	1	1	24	23.17	-0.04	0.126	0.113
U31	UMTS B5	RMC12.2K	4182	Left Side	1	1	1	24	23.17	0.05	0.019	0.015
U32	UMTS B5	RMC12.2K	4182	Right Side	1	1	1	24	23.17	-0.18	0.263	0.182
U33	UMTS B5	RMC12.2K	4182	Top Side1	1	1	1	24	23.17	0.11	0.016	0.015
U34	UMTS B5	RMC12.2K	4182	Top Side2	1	1	1	24	23.17	0.09	0.014	0.015
U35	UMTS B5	RMC12.2K	4182	Bottom Side	1	1	1	24	23.17	-0.06	0.014	0.013
U36	UMTS B5	RMC12.2K	4182	Right Side	1	2	1	24	23.17	0.07	0.257	0.180

Note: The value with boldface is the maximum SAR Value of each test band.



3. SAR test results of LTE

Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 10g (W/kg)	Reported 1g SAR
L80	LTE B2	QPSK20M	18700	1	50	Front Face	1	1	1	25	24.37	0.03	0.189	0.219
L81	LTE B2	QPSK20M	18700	1	50	Rear Face	1	1	1	25	24.37	0.16	0.095	0.110
L82	LTE B2	QPSK20M	18700	1	50	Left Side	1	1	1	25	24.37	-0.05	0.043	0.050
L83	LTE B2	QPSK20M	18700	1	50	Right Side	1	1	1	25	24.37	-0.06	0.494	0.571
L84	LTE B2	QPSK20M	18700	1	50	Top Side1	1	1	1	25	24.37	0.01	0.056	0.065
L85	LTE B2	QPSK20M	18700	1	50	Top Side2	1	1	1	25	24.37	0.08	0.061	0.071
L86	LTE B2	QPSK20M	18700	1	50	Bottom Side	1	1	1	25	24.37	-0.1	0.037	0.043
L87	LTE B2	QPSK20M	18700	50	0	Front Face	1	1	1	24	23.22	-0.02	0.143	0.171
L88	LTE B2	QPSK20M	18700	50	0	Rear Face	1	1	1	24	23.22	0.04	0.074	0.089
L89	LTE B2	QPSK20M	18700	50	0	Left Side	1	1	1	24	23.22	0.09	0.048	0.058
L90	LTE B2	QPSK20M	18700	50	0	Right Side	1	1	1	24	23.22	-0.07	0.414	0.496
L91	LTE B2	QPSK20M	18700	50	0	Top Side1	1	1	1	24	23.22	0.13	0.052	0.062
L92	LTE B2	QPSK20M	18700	50	0	Top Side2	1	1	1	24	23.22	0.08	0.041	0.049
L93	LTE B2	QPSK20M	18700	50	0	Bottom Side	1	1	1	24	23.22	0.07	0.026	0.031
L94	LTE B2	QPSK20M	18700	1	50	Right Side	1	2	1	25	24.37	0.01	0.479	0.554



Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	Reported 1g SAR
L96	LTE B4	QPSK20M	20175	1	50	Front Face	1	1	1	24	23.91	0.03	0.248	0.253
L97	LTE B4	QPSK20M	20175	1	50	Rear Face	1	1	1	24	23.91	0.09	0.107	0.109
L98	LTE B4	QPSK20M	20175	1	50	Left Side	1	1	1	24	23.91	0.01	0.028	0.028
L99	LTE B4	QPSK20M	20175	1	50	Right Side	1	1	1	24	23.91	0.05	0.656	0.670
L100	LTE B4	QPSK20M	20175	1	50	Top Side1	1	1	1	24	23.91	-0.03	0.059	0.060
L101	LTE B4	QPSK20M	20175	1	50	Top Side2	1	1	1	24	23.91	0.06	0.030	0.030
L102	LTE B4	QPSK20M	20175	1	50	Bottom Side	1	1	1	24	23.91	0.04	0.031	0.032
L103	LTE B4	QPSK20M	20175	50	0	Front Face	1	1	1	23	22.74	0.09	0.198	0.210
L104	LTE B4	QPSK20M	20175	50	0	Rear Face	1	1	1	23	22.74	0.01	0.086	0.091
L105	LTE B4	QPSK20M	20175	50	0	Left Side	1	1	1	23	22.74	0.06	0.023	0.025
L106	LTE B4	QPSK20M	20175	50	0	Right Side	1	1	1	23	22.74	0.03	0.505	0.536
L107	LTE B4	QPSK20M	20175	50	0	Top Side1	1	1	1	23	22.74	0.12	0.023	0.025
L108	LTE B4	QPSK20M	20175	50	0	Top Side2	1	1	1	23	22.74	-0.03	0.025	0.026
L109	LTE B4	QPSK20M	20175	50	0	Bottom Side	1	1	1	23	22.74	0.09	0.021	0.022
L110	LTE B4	QPSK20M	20175	1	50	Right Side	1	2	1	24	23.91	0.05	0.611	0.624



Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	Reported 1g SAR
L112	LTE B5	QPSK10M	20600	1	24	Front Face	1	1	1	24	23.68	0.09	0.157	0.169
L113	LTE B5	QPSK10M	20600	1	24	Rear Face	1	1	1	24	23.68	0.03	0.107	0.115
L114	LTE B5	QPSK10M	20600	1	24	Left Side	1	1	1	24	23.68	0.04	0.150	0.161
L115	LTE B5	QPSK10M	20600	1	24	Right Side	1	1	1	24	23.68	-0.12	0.272	0.293
L116	LTE B5	QPSK10M	20600	1	24	Top Side1	1	1	1	24	23.68	0.03	0.104	0.112
L117	LTE B5	QPSK10M	20600	1	24	Top Side2	1	1	1	24	23.68	-0.06	0.084	0.091
L118	LTE B5	QPSK10M	20600	1	24	Bottom Side	1	1	1	24	23.68	0.12	0.031	0.033
L119	LTE B5	QPSK10M	20600	25	12	Front Face	1	1	1	23	22.56	-0.04	0.123	0.136
L120	LTE B5	QPSK10M	20600	25	12	Rear Face	1	1	1	23	22.56	-0.08	0.084	0.093
L121	LTE B5	QPSK10M	20600	25	12	Left Side	1	1	1	23	22.56	0.06	0.124	0.137
L122	LTE B5	QPSK10M	20600	25	12	Right Side	1	1	1	23	22.56	-0.08	0.217	0.240
L123	LTE B5	QPSK10M	20600	25	12	Top Side1	1	1	1	23	22.56	0.04	0.079	0.087
L124	LTE B5	QPSK10M	20600	25	12	Top Side2	1	1	1	23	22.56	0.02	0.067	0.074
L125	LTE B5	QPSK10M	20600	25	12	Bottom Side	1	1	1	23	22.56	0.01	0.032	0.036
L126	LTE B5	QPSK10M	20600	1	24	Right Side	1	2	1	24	23.68	-0.03	0.210	0.226



Test No.	Band	Mode	Channel	RB	offset	Test Position	Separation Distance (cm)	SIM	Ant	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	Reported 1g SAR
L128	LTE B7	QPSK20M	20850	1	50	Front Face	1	1	1	25	24.69	0.05	0.259	0.278
L129	LTE B7	QPSK20M	20850	1	50	Rear Face	1	1	1	25	24.69	-0.01	0.357	0.383
L130	LTE B7	QPSK20M	20850	1	50	Left Side	1	1	1	25	24.69	-0.13	0.092	0.099
L131	LTE B7	QPSK20M	20850	1	50	Right Side	1	1	1	25	24.69	-0.09	0.977	1.049
L132	LTE B7	QPSK20M	20850	1	50	Top Side1	1	1	1	25	24.69	0.02	0.168	0.180
L133	LTE B7	QPSK20M	20850	1	50	Top Side2	1	1	1	25	24.69	-0.04	0.156	0.168
L134	LTE B7	QPSK20M	20850	1	50	Bottom Side	1	1	1	25	24.69	0.03	0.044	0.047
L135	LTE B7	QPSK20M	21100	50	50	Front Face	1	1	1	24	23.54	0.17	0.159	0.177
L136	LTE B7	QPSK20M	21100	50	50	Rear Face	1	1	1	24	23.54	0.08	0.248	0.276
L137	LTE B7	QPSK20M	21100	50	50	Left Side	1	1	1	24	23.54	0.07	0.109	0.121
L138	LTE B7	QPSK20M	21100	50	50	Right Side	1	1	1	24	23.54	-0.03	0.803	0.894
L139	LTE B7	QPSK20M	21100	50	50	Top Side1	1	1	1	24	23.54	-0.12	0.149	0.166
L140	LTE B7	QPSK20M	21100	50	50	Top Side2	1	1	1	24	23.54	0.05	0.176	0.196
L141	LTE B7	QPSK20M	21100	50	50	Bottom Side	1	1	1	24	23.54	0.01	0.039	0.043
L142	LTE B7	QPSK20M	21100	1	50	Right Side	1	1	1	25	24.50	-0.09	1.050	1.178
L143	LTE B7	QPSK20M	21350	1	50	Right Side	1	1	1	25	24.69	-0.03	0.732	0.786
L144	LTE B7	QPSK20M	20850	50	50	Right Side	1	1	1	24	23.10	0.04	0.720	0.886
L145	LTE B7	QPSK20M	21350	50	50	Right Side	1	1	1	24	23.01	0.02	0.739	0.928
L146	LTE B7	QPSK20M	21100	1	50	Right Side	1	2	1	25	24.50	0.02	0.869	0.975
L147	LTE B7	QPSK20M	21100	1	50	Right Side(Repeated)	1	1	1	25	24.50	-0.09	0.978	1.097

Note: The value with boldface is the maximum SAR Value of each test band.



4. SAR test results of WIFI 2.4G

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Data Rate	Ant	Duty Cycle (%)	Duty Factor	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	Reported 1g SAR
W41	802.11b	11	Front Face	1	1	2	97.56%	1.03	17	16.62	0.03	0.021	0.024
W42	802.11b	11	Rear Face	1	1	2	97.56%	1.03	17	16.62	0.04	0.041	0.046
W43	802.11b	11	Left Side	1	1	2	97.56%	1.03	17	16.62	0.09	0.026	0.029
W44	802.11b	11	Right Side	1	1	2	97.56%	1.03	17	16.62	0.18	0.252	0.282
W45	802.11b	11	Top Side1	1	1	2	97.56%	1.03	17	16.62	0.12	0.020	0.023
W46	802.11b	11	Top Side2	1	1	2	97.56%	1.03	17	16.62	0.06	0.023	0.026
W47	802.11b	11	Bottom Side	1	1	2	97.56%	1.03	17	16.62	0.03	0.021	0.023

Note: The value with boldface is the maximum SAR Value of each test band.



6. SAR test results of WIFI 5G

Test No.	Band	Channel	Test Position	Separation Distance (cm)	Data Rate	Ant	Duty Cycle %	Duty Factor	Maximum Tune-up (dBm)	Conducted Power (dBm)	Power Drift (dB)	SAR 1g (W/kg)	Reported 1g SAR
W49	802.11n HT40	36	Front Face	1	MCS0	2	94.92%	1.05	12	11.89	0.03	0.070	0.075
W50	802.11n HT40	36	Rear Face	1	MCS0	2	94.92%	1.05	12	11.89	0.04	0.103	0.111
W51	802.11n HT40	36	Left Side	1	MCS0	2	94.92%	1.05	12	11.89	0.09	0.042	0.046
W52	802.11n HT40	36	Right Side	1	MCS0	2	94.92%	1.05	12	11.89	-0.03	0.130	0.140
W53	802.11n HT40	36	Top Side1	1	MCS0	2	94.92%	1.05	12	11.89	0.01	0.065	0.070
W54	802.11n HT40	36	Top Side2	1	MCS0	2	94.92%	1.05	12	11.89	0.01	0.040	0.044
W55	802.11n HT40	36	Bottom Side	1	MCS0	2	94.92%	1.05	12	11.89	0.06	0.016	0.018
W57	802.11n HT40	151	Front Face	1	MCS0	2	94.92%	1.05	12	11.76	0.04	0.091	0.102
W58	802.11n HT40	151	Rear Face	1	MCS0	2	94.92%	1.05	12	11.76	0.03	0.113	0.126
W59	802.11n HT40	151	Left Side	1	MCS0	2	94.92%	1.05	12	11.76	0.12	0.064	0.071
W60	802.11n HT40	151	Right Side	1	MCS0	2	94.92%	1.05	12	11.76	-0.08	0.155	0.173
W61	802.11n HT40	151	Top Side1	1	MCS0	2	94.92%	1.05	12	11.76	0.06	0.054	0.061
W62	802.11n HT40	151	Top Side2	1	MCS0	2	94.92%	1.05	12	11.76	0.07	0.049	0.054
W63	802.11n HT40	151	Bottom Side	1	MCS0	2	94.92%	1.05	12	11.76	0.01	0.038	0.042

Note: The value with boldface is the maximum SAR Value of each test band.



SIMULTANEOUS TRANSMISSION CONDITIONS

The extremity

Position SAR _{10g} (W/Kg)	Front Face	Rear Face	Left Side	Right Side	Top Side1	Top Side2	Bottom Side
GSM 850	0.218	0.362	0.342	1.086	0.299	0.159	0.039
GSM 1900	0.464	0.237	0.109	1.766	0.161	0.130	0.072
UMTS B2	0.267	0.145	0.072	1.260	0.112	0.096	0.047
UMTS B5	0.050	0.144	0.246	0.656	0.050	0.102	0.036
LTE B2	0.403	0.183	0.090	1.237	0.101	0.114	0.055
LTE B4	0.384	0.128	0.038	1.103	0.101	0.089	0.034
LTE B5	0.141	0.183	0.208	0.532	0.163	0.123	0.031
LTE B7	0.520	0.531	0.342	1.579	0.238	0.268	0.033
WIFI2.4G	0.048	0.051	0.028	0.408	<0.001	0.015	0.028
WIFI5.3G	0.013	0.027	0.011	0.316	0.009	0.012	0.002
WIFI5.6G	0.028	0.029	0.028	0.329	0.031	0.020	0.028
WIFI5.8G	0.078	0.032	0.022	0.124	0.002	0.017	<0.001
Bluetooth	0.002	0.001	<0.001	0.011	<0.001	0.001	<0.001
MAX ΣSAR_{10g}	0.598	0.582	0.370	2.174	0.330	0.288	0.100

Note:

- 1)) The highest simultaneous SAR value=2.174W/Kg MAX. Σ SAR_{10g}<4.0 W/Kg, the SAR to peak location separation ratio should not be considered, otherwise, see section 7.3.3 for more information.
- 2) The highest simultaneous SAR value=2.174W/Kg, per KDB690783 D01.



The hotspot SAR

Position SAR _{1g} (W/Kg)	Front Face	Rear Face	Left Side	Right Side	Top Side1	Top Side2	Bottom Side
GSM 850	0.265	0.194	0.253	0.506	0.161	0.111	0.025
GSM 1900	0.381	0.203	0.084	1.173	0.143	0.113	0.085
UMTS B2	0.219	0.116	0.032	0.594	0.036	0.077	0.028
UMTS B5	0.021	0.113	0.015	0.182	0.015	0.015	0.013
LTE B2	0.219	0.110	0.058	0.571	0.065	0.071	0.043
LTE B4	0.253	0.109	0.028	0.670	0.060	0.030	0.032
LTE B5	0.169	0.115	0.161	0.293	0.112	0.091	0.036
LTE B7	0.278	0.383	0.121	1.049	0.180	0.196	0.047
WIFI2.4G	0.024	0.046	0.029	0.282	0.023	0.026	0.023
WIFI5.2G	0.075	0.111	0.046	0.140	0.070	0.044	0.018
WIFI5.8G	0.102	0.126	0.071	0.173	0.061	0.054	0.042
MAX \sum SAR _{1g}	0.483	0.509	0.324	1.455	0.250	0.250	0.127

Note:

- 1) MAX. \sum SAR_{10g}<1.6 W/Kg, the SAR to peak location separation ratio should not be considered, otherwise, see section 7.3.3 for more information.
- 2) The highest simultaneous SAR value=1.455W/Kg, per KDB690783 D01.