

LTE Band 5 – Main ANT







Plot 7-99. Upper Band Edge Plot (LTE Band 5 - 10MHz QPSK – Full RB – Main ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 70 of 117
1M2205240063-04-R1.PY7	06/03/2022 - 07/29/2022	Portable Handset	Fage 70 01 117



🔤 Keysight	t Spectrum Analyzer - Swept SA							
LXI RL	RF 50 Ω AC	CORREC	SENSE:INT	#Avg Typ	ALIGN AUTO e: RMS	10:19:57 P TRAC	MJun 15, 2022 DE 1 2 3 4 5 6	Frequency
PASS	v Ref 25.00 dBm	PNO: Wide ↔ IFGain:Low	#Atten: 36 dB		Mkr	1 823.98 -23.	7 5 MHz 78 dBm	Auto Tune
15.0	ace 1 Pass							Center Freq 824.000000 MHz
-5.00								Start Freq 817.750000 MHz
-15.0			↓ ↓ /				4	Stop Freq 830.250000 MHz
-35.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~				-	CF Step 1.250000 MHz <u>Auto</u> Man
-55.0								Freq Offset 0 Hz
-65.0								Scale Type
Center	824.000 MHz	#)(B)M	200 647		Swoon	Span 1	2.50 MHz	
#Res D		#VDVV	300 KH2		sweep	1.000 IIIS ((TOOT PLS)	
MSG					STAT	JS		





Plot 7-101. Upper Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB - Main ANT)

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Plot 7-102. Lower Band Edge Plot (LTE Band 5 - 3MHz QPSK – Full RB – Main ANT)



Plot 7-103. Upper Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB - Main ANT)

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Plot 7-104. Lower Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB – Main ANT)



Plot 7-105. Upper Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB – Main ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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LTE Band 5 – Sub ANT



Plot 7-106. Lower Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB - Sub ANT)



Plot 7-107. Upper Band Edge Plot (LTE Band 5 - 10MHz QPSK - Full RB - Sub ANT)

FCC ID: PY7-76056F		PART 22 MEASUREMENT REPORT			
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🔤 Keysight Sp	pectrum Analyzer - Swe	pt SA									
LXU RL	RF 50 Ω	AC CORRE	C	SEN	SE:INT	#Avg Typ	ALIGN AUTO e: RMS	11:32:16 P TRAC	M Jun 15, 2022 E 1 2 3 4 5 6	F	requency
PASS	Ref 25.00 d	PNO: IFGai Bm	Wide ↔ n:Low	Trig: Free #Atten: 36	Run dB		Mkr1	823.98 -24.	7 5 MHz 35 dBm		Auto Tune
15.0 Trac	ce 1 Pass									824	Center Freq 4.000000 MHz
-5.00										81	Start Freq 7.750000 MHz
-15.0					1					830	Stop Freq 0.250000 MHz
-35.0		www	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~					~~~~	<u>Auto</u>	CF Step 1.250000 MHz Man
-55.0											Freq Offset 0 Hz
-65.0											Scale Type
Center 8 #Res BW	24.000 MHz 100 kHz		#VBW 3	100 kHz			Sweep	Span 1 1.000 ms (2.50 MHz 1001 pts)	Log	Lin
MSG							STATU	IS			





Plot 7-109. Upper Band Edge Plot (LTE Band 5 - 5MHz QPSK - Full RB - Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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Plot 7-110. Lower Band Edge Plot (LTE Band 5 - 3MHz QPSK – Full RB – Sub ANT)



Plot 7-111. Upper Band Edge Plot (LTE Band 5 - 3MHz QPSK - Full RB - Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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Plot 7-112. Lower Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB – Sub ANT)



Plot 7-113. Upper Band Edge Plot (LTE Band 5 – 1.4MHz QPSK – Full RB – Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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NR Band n5 – Main ANT



Plot 7-114. Lower Band Edge Plot (NR Band n5 – 20.0MHz - Full RB – Main ANT)



Plot 7-115. Upper Band Edge Plot (NR Band n5 – 20.0MHz - Full RB – Main ANT)

FCC ID: PY7-76056F	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-116. Lower Band Edge Plot (NR Band n5 – 15.0MHz - Full RB – Main ANT)



Plot 7-117. Upper Band Edge Plot (NR Band n5 – 15.0MHz - Full RB – Main ANT)

FCC ID: PY7-76056F	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager	
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Plot 7-118. Lower Band Edge Plot (NR Band n5 – 10.0MHz - Full RB – Main ANT)



Plot 7-119. Upper Band Edge Plot (NR Band n5 – 10.0MHz - Full RB – Main ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 90 of 117
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Plot 7-120. Lower Band Edge Plot (NR Band n5 – 5.0MHz - Full RB – Main ANT)

Plot 7-121. Upper Band Edge Plot (NR Band n5 – 5.0MHz - Full RB – Main ANT)

FCC ID: PY7-76056F		PART 22 MEASUREMENT REPORT	
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NR Band n5 – Sub ANT

Plot 7-122. Lower Band Edge Plot (NR Band n5 - 20.0MHz - Full RB - Sub ANT)

Plot 7-123. Upper Band Edge Plot (NR Band n5 - 20.0MHz - Full RB - Sub ANT)

FCC ID: PY7-76056F		PART 22 MEASUREMENT REPORT		
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🔤 Ke	ysight Spe	trum Analyzer - Sv	vept SA									
l,XI R	L	RF 50 9	2 DC CO	RREC	SE	NSE:INT	#Ava Tvp	ALIGN AUTO	09:08:58 PI	4 Jun 10, 2022	Fr	equency
PAS	S		P IF	NO: Wide ↔ Gain:Low	→ Trig: Fre #Atten: 3	e Run 6 dB		Mkr1	823.96	2 5 MHz		Auto Tune
10 di Log 15.0	3/div Trace	Ref 25.00	dBm						-20.		(824	Center Freq .000000 MHz
5.00 -5.00											805	Start Freq .250000 MHz
-15.0 -25.0						1					842	Stop Freq .750000 MHz
-35.0 -45.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	n	, And the second	n And					wanner of the second se	3 <u>Auto</u>	CF Step .750000 MHz Man
-55.0 -65.0	·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~										Freq Offset 0 Hz
Cen #Re:	ter 824 s BW	1.00 MHz 160 kHz		#VBW	/ 510 kHz			Sweep 1	Span 3 .000 ms (7.50 MHz 1001 pts)	Log	Scale Type <u>Lin</u>
MSG								STATU	5			

Plot 7-125. Upper Band Edge Plot (NR Band n5 – 15.0MHz - Full RB – Sub ANT)

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Plot 7-127. Upper Band Edge Plot (NR Band n5 – 10.0MHz - Full RB – Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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Plot 7-129. Upper Band Edge Plot (NR Band n5 – 5.0MHz - Full RB – Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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GSM/GPRS Cell – Main ANT

Plot 7-130. Lower Band Edge Plot (GPRS Cell - Ch. 128 - Main ANT)

Plot 7-131. Upper Band Edge Plot (GPRS Cell – Ch. 251 – Main ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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WCDMA Cell – Main ANT

Plot 7-132. Lower Band Edge Plot (WCDMA Cell - Ch. 4132 - Main ANT)

Plot 7-133. Upper Band Edge Plot (WCDMA Cell - Ch. 4233 - Main ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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7.6 Radiated Power (ERP)

Test Overview

Effective Radiated Power (ERP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 - Section 5.2.4.4

Test Settings

- Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used.
- 2. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 3. VBW \geq 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points \geq 2 x span / RBW
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize.

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The EUT and measurement equipment were set up as shown in the diagram below.

Figure 7-5. Radiated Test Setup < 1GHz

Figure 7-6. Radiated Test Setup > 1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".

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- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4) This unit was tested with its standard battery.
- 5) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated, and the worst-case configuration results are reported in this section.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	QPSK	829.0	V	145	118	6.10	1 / 25	12.65	16.60	0.046	38.45	-21.85	18.75	0.075	40.61	-21.86
	QPSK	836.5	V	139	125	6.18	1 / 25	12.47	16.50	0.045	38.45	-21.95	18.65	0.073	40.61	-21.96
	QPSK	844.0	V	148	118	6.36	1/0	11.75	15.96	0.039	38.45	-22.49	18.11	0.065	40.61	-22.50
	16-QAM	836.5	V	139	125	6.18	1 / 25	11.94	15.97	0.040	38.45	-22.48	18.12	0.065	40.61	-22.49
	QPSK	829.0	V	145	118	6.07	1 / 12	12.65	16.57	0.045	38.45	-21.88	18.72	0.075	40.61	-21.88
	QPSK	836.5	V	139	125	6.18	1/0	12.61	16.64	0.046	38.45	-21.81	18.79	0.076	40.61	-21.82
5 MITZ	QPSK	844.0	V	148	118	6.38	1 / 12	11.71	15.94	0.039	38.45	-22.51	18.09	0.064	40.61	-22.51
	16-QAM	836.5	V	139	125	6.18	1 / 12	12.10	16.13	0.041	38.45	-22.33	18.28	0.067	40.61	-22.33
	QPSK	829.0	V	145	118	6.06	1 / 14	12.74	16.65	0.046	38.45	-21.80	18.80	0.076	40.61	-21.81
2 MLI-	QPSK	836.5	V	139	125	6.18	1/0	12.57	16.60	0.046	38.45	-21.85	18.75	0.075	40.61	-21.86
3 IVITIZ	QPSK	844.0	V	148	118	6.39	1/0	11.68	15.92	0.039	38.45	-22.53	18.07	0.064	40.61	-22.53
	16-QAM	829.0	V	145	118	6.06	1/7	12.15	16.07	0.040	38.45	-22.38	18.22	0.066	40.61	-22.39
	QPSK	829.0	V	145	118	6.09	1/3	12.63	16.56	0.045	38.45	-21.89	18.71	0.074	40.61	-21.90
	QPSK	836.5	V	139	125	6.18	1/3	12.47	16.50	0.045	38.45	-21.95	18.65	0.073	40.61	-21.96
	QPSK	844.0	V	148	118	6.40	1/5	11.62	15.87	0.039	38.45	-22.58	18.02	0.063	40.61	-22.59
	16-QAM	836.5	V	139	125	6.18	1/3	11.88	15.91	0.039	38.45	-22.54	18.06	0.064	40.61	-22.54
	QPSK (Opposite Pol.)	829.0	Н	202	159	6.73	1/25	11.03	15.61	0.036	38.45	-22.84	17.76	0.060	40.61	-22.85
TO MILE	QPSK (WCP)	829.0	Н	204	51	6.18	1/25	10.08	14.11	0.026	38.45	-24.34	16.26	0.042	40.61	-24.35

Table 7-6. ERP Data (LTE Band 5 – Main ANT)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	QPSK	829.0	н	216	262	6.70	1/0	12.99	17.54	0.057	38.45	-20.91	19.69	0.093	40.61	-20.92
	QPSK	836.5	н	202	249	6.73	1/0	11.99	16.57	0.045	38.45	-21.88	18.72	0.074	40.61	-21.89
	QPSK	844.0	н	205	261	6.76	1 / 25	12.20	16.81	0.048	38.45	-21.64	18.96	0.079	40.61	-21.65
	16-QAM	829.0	Н	216	262	6.70	1/0	12.32	16.87	0.049	38.45	-21.58	19.02	0.080	40.61	-21.59
	QPSK	829.0	Н	216	262	6.70	1 / 24	13.11	17.66	0.058	38.45	-20.79	19.81	0.096	40.61	-20.80
E MU-	QPSK	836.5	н	202	249	6.73	1/0	12.20	16.78	0.048	38.45	-21.67	18.93	0.078	40.61	-21.67
2 MILZ	QPSK	844.0	Н	205	261	6.76	1/0	12.25	16.86	0.049	38.45	-21.59	19.01	0.080	40.61	-21.60
	16-QAM	829.0	н	216	262	6.70	1 / 12	12.21	16.76	0.047	38.45	-21.69	18.91	0.078	40.61	-21.70
	QPSK	829.0	Н	216	262	6.70	1/7	12.93	17.48	0.056	38.45	-20.97	19.63	0.092	40.61	-20.97
2 MU-	QPSK	836.5	Н	202	249	6.73	1/7	12.07	16.65	0.046	38.45	-21.80	18.80	0.076	40.61	-21.81
3 WITZ	QPSK	844.0	н	205	261	6.76	1/0	12.16	16.76	0.047	38.45	-21.69	18.91	0.078	40.61	-21.69
	16-QAM	829.0	н	216	262	6.70	1 / 14	12.12	16.67	0.046	38.45	-21.78	18.82	0.076	40.61	-21.78
	QPSK	829.0	Н	216	262	6.70	1/5	12.88	17.43	0.055	38.45	-21.02	19.58	0.091	40.61	-21.03
4.4 MU-	QPSK	836.5	Н	202	249	6.73	1/0	12.16	16.74	0.047	38.45	-21.71	18.89	0.077	40.61	-21.72
1.4 MHZ	QPSK	844.0	н	205	261	6.76	1/0	12.14	16.75	0.047	38.45	-21.71	18.90	0.078	40.61	-21.71
	16-QAM	829.0	н	216	262	6.70	1/0	12.16	16.71	0.047	38.45	-21.74	18.86	0.077	40.61	-21.74
	QPSK (Opposite Pol.)	829.0	V	102	222	6.10	1/0	11.04	14.99	0.032	38.45	-23.46	17.14	0.052	40.61	-23.47
	QPSK (WCP)	829.0	Н	219	113	6.70	1/0	11.88	16.43	0.044	38.45	-22.02	18.58	0.072	40.61	-22.03

Table 7-7. ERP Data (LTE Band 5 – Sub ANT)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	834.0	V	140	74	6.15	1 / 53	13.52	17.52	0.057	38.45	-20.93	19.67	0.093	40.61	-20.93
	π/2 BPSK	836.5	V	140	74	6.18	1 / 53	13.64	17.67	0.058	38.45	-20.78	19.82	0.096	40.61	-20.79
	TT/2 BPSK	839.0	V	133	70	6.30	1 / 53	12.75	16.90	0.049	38.45	-21.55	19.05	0.080	40.61	-21.55
20 MHz	QPSK	834.0	V	140	74	6.15	1 / 53	13.68	17.68	0.059	38.45	-20.77	19.83	0.096	40.61	-20.77
	QPSK	836.5	V	140	74	6.18	1 / 53	13.22	17.25	0.053	38.45	-21.20	19.40	0.087	40.61	-21.21
	QPSK	839.0	V	133	70	6.30	1 / 53	12.71	16.86	0.049	38.45	-21.59	19.01	0.080	40.61	-21.59
	16-QAM	834.0	V	140	74	6.15	1 / 53	12.52	16.52	0.045	38.45	-21.93	18.67	0.074	40.61	-21.93
	TT/2 BPSK	831.5	V	140	74	6.13	1 / 39	13.51	17.48	0.056	38.45	-20.97	19.63	0.092	40.61	-20.97
	π/2 BPSK	836.5	V	140	74	6.18	1 / 39	13.65	17.68	0.059	38.45	-20.77	19.83	0.096	40.61	-20.78
	TT/2 BPSK	841.5	V	133	70	6.33	1 / 39	12.77	16.95	0.050	38.45	-21.50	19.10	0.081	40.61	-21.50
15 MHz	QPSK	831.5	V	140	74	6.13	1 / 39	13.73	17.71	0.059	38.45	-20.74	19.86	0.097	40.61	-20.75
	QPSK	836.5	V	140	74	6.18	1 / 58	13.09	17.12	0.052	38.45	-21.33	19.27	0.085	40.61	-21.34
	QPSK	841.5	V	133	70	6.33	1 / 39	12.61	16.79	0.048	38.45	-21.66	18.94	0.078	40.61	-21.67
	16-QAM	831.5	V	140	74	6.13	1/39	12.98	16.96	0.050	38.45	-21.49	19.11	0.081	40.61	-21.50
	π/2 BPSK	829.0	V	140	74	6.10	1 / 26	13.37	17.32	0.054	38.45	-21.13	19.47	0.088	40.61	-21.14
	π/2 BPSK	836.5	V	140	74	6.18	1 / 26	13.50	17.53	0.057	38.45	-20.92	19.68	0.093	40.61	-20.93
	π/2 BPSK	844.0	V	133	70	6.36	1 / 38	12.66	16.87	0.049	38.45	-21.58	19.02	0.080	40.61	-21.59
10 MHz	QPSK	829.0	V	140	74	6.10	1 / 26	13.72	17.67	0.058	38.45	-20.79	19.82	0.096	40.61	-20.79
	QPSK	836.5	V	140	74	6.18	1 / 38	13.05	17.08	0.051	38.45	-21.37	19.23	0.084	40.61	-21.38
	QPSK	844.0	V	133	70	6.36	1 / 26	12.57	16.77	0.048	38.45	-21.68	18.92	0.078	40.61	-21.68
	16-QAM	829.0	V	140	74	6.10	1 / 26	12.40	16.35	0.043	38.45	-22.10	18.50	0.071	40.61	-22.11
	π/2 BPSK	829.0	V	140	74	6.07	1 / 12	13.36	17.28	0.053	38.45	-21.17	19.43	0.088	40.61	-21.18
	TT/2 BPSK	836.5	V	140	74	6.18	1/6	13.74	17.77	0.060	38.45	-20.68	19.92	0.098	40.61	-20.69
	π/2 BPSK	844.0	V	133	70	6.38	1 / 12	12.48	16.71	0.047	38.45	-21.74	18.86	0.077	40.61	-21.74
5 MHz	QPSK	829.0	V	140	74	6.07	1 / 12	13.62	17.55	0.057	38.45	-20.90	19.70	0.093	40.61	-20.91
	QPSK	836.5	V	140	74	6.18	1 / 12	13.02	17.05	0.051	38.45	-21.40	19.20	0.083	40.61	-21.41
	QPSK	844.0	V	133	70	6.38	1 / 12	12.40	16.63	0.046	38.45	-21.82	18.78	0.075	40.61	-21.83
	16-QAM	829.0	V	140	74	6.07	1 / 12	12.85	16.78	0.048	38.45	-21.67	18.93	0.078	40.61	-21.68
	QPSK (CP-OFDM)	834.0	V	139	85	6.18	1/53	11.96	15.99	0.040	38.45	-22.46	18.14	0.065	40.61	-22.47
20 MHz	QPSK (Opposite Pol.)	834.0	H	221	59	6.73	1/53	11.42	16.00	0.040	38.45	-22.45	18.15	0.065	40.61	-22.46
	QPSK (WCP)	834.0	Н	218	50	6.73	1/53	8.83	13.41	0.022	38.45	-25.04	15.56	0.036	40.61	-25.05

Table 7-8. ERP Data (NR Band n5 – Main ANT)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	834.0	V	114	264	6.15	1 / 79	9.76	13.76	0.024	38.45	-24.69	15.91	0.039	40.61	-24.69
	π/2 BPSK	836.5	V	114	271	6.18	1 / 79	10.37	14.40	0.028	38.45	-24.05	16.55	0.045	40.61	-24.06
	TT/2 BPSK	839.0	V	103	258	6.30	1 / 79	11.73	15.88	0.039	38.45	-22.57	18.03	0.064	40.61	-22.57
20 MHz	QPSK	834.0	V	114	264	6.15	1 / 79	9.73	13.73	0.024	38.45	-24.72	15.88	0.039	40.61	-24.72
	QPSK	836.5	V	114	271	6.18	1 / 79	10.56	14.59	0.029	38.45	-23.86	16.74	0.047	40.61	-23.87
	QPSK	839.0	V	103	258	6.30	1 / 79	11.69	15.84	0.038	38.45	-22.61	17.99	0.063	40.61	-22.61
	16-QAM	839.0	V	103	258	6.30	1 / 79	10.93	15.08	0.032	38.45	-23.37	17.23	0.053	40.61	-23.37
	TT/2 BPSK	831.5	V	114	264	6.13	1 / 39	9.76	13.74	0.024	38.45	-24.71	15.89	0.039	40.61	-24.72
	π/2 BPSK	836.5	V	114	271	6.18	1 / 39	10.35	14.38	0.027	38.45	-24.07	16.53	0.045	40.61	-24.08
	π/2 BPSK	841.5	V	103	258	6.33	1 / 58	11.76	15.94	0.039	38.45	-22.51	18.09	0.064	40.61	-22.52
15 MHz	QPSK	831.5	V	114	264	6.13	1 / 39	9.73	13.71	0.023	38.45	-24.74	15.86	0.039	40.61	-24.75
	QPSK	836.5	V	114	271	6.18	1 / 39	10.51	14.54	0.028	38.45	-23.91	16.69	0.047	40.61	-23.92
	QPSK	841.5	V	103	258	6.33	1 / 39	11.55	15.73	0.037	38.45	-22.72	17.88	0.061	40.61	-22.73
	16-QAM	841.5	V	103	258	6.33	1 / 39	10.92	15.10	0.032	38.45	-23.35	17.25	0.053	40.61	-23.36
	π/2 BPSK	829.0	V	114	264	6.10	1 / 26	9.74	13.69	0.023	38.45	-24.77	15.84	0.038	40.61	-24.77
	TT/2 BPSK	836.5	V	114	271	6.18	1 / 38	10.34	14.37	0.027	38.45	-24.08	16.52	0.045	40.61	-24.09
	π/2 BPSK	844.0	V	103	258	6.36	1 / 38	11.70	15.90	0.039	38.45	-22.55	18.05	0.064	40.61	-22.55
10 MHz	QPSK	829.0	V	114	264	6.10	1 / 26	9.62	13.57	0.023	38.45	-24.88	15.72	0.037	40.61	-24.89
	QPSK	836.5	V	114	271	6.18	1 / 26	10.59	14.62	0.029	38.45	-23.83	16.77	0.048	40.61	-23.84
	QPSK	844.0	V	103	258	6.36	1 / 38	11.42	15.62	0.036	38.45	-22.83	17.77	0.060	40.61	-22.83
	16-QAM	844.0	V	103	258	6.36	1 / 38	10.96	15.16	0.033	38.45	-23.29	17.31	0.054	40.61	-23.30
	π/2 BPSK	829.0	V	114	264	6.07	1 / 12	9.54	13.46	0.022	38.45	-24.99	15.61	0.036	40.61	-25.00
	π/2 BPSK	836.5	V	114	271	6.18	1 / 12	10.39	14.41	0.028	38.45	-24.04	16.56	0.045	40.61	-24.04
	π/2 BPSK	844.0	V	103	258	6.38	1 / 12	11.71	15.94	0.039	38.45	-22.51	18.09	0.064	40.61	-22.52
5 MHz	QPSK	829.0	V	114	264	6.07	1 / 12	9.60	13.53	0.023	38.45	-24.92	15.68	0.037	40.61	-24.93
	QPSK	836.5	V	114	271	6.18	1 / 12	10.30	14.33	0.027	38.45	-24.12	16.48	0.044	40.61	-24.13
	QPSK	844.0	V	103	258	6.38	1 / 12	11.56	15.80	0.038	38.45	-22.65	17.95	0.062	40.61	-22.66
	16-QAM	844.0	V	103	258	6.38	1 / 12	10.72	14.95	0.031	38.45	-23.50	17.10	0.051	40.61	-23.50
	QPSK (CP-OFDM)	839.0	V	121	275	6.15	1/79	9.72	13.72	0.024	38.45	-24.73	15.87	0.039	40.61	-24.73
20 MHz	QPSK (Opposite Pol.)	839.0	н	200	185	6.80	1/79	6.87	11.52	0.014	38.45	-26.93	13.67	0.023	40.61	-26.94
	QPSK (WCP)	839.0	V	129	268	6.15	1/79	10.64	14.64	0.029	38.45	-23.81	16.79	0.048	40.61	-23.81

Table 7-9. ERP Data (NR Band n5 – Sub ANT)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.20	GSM850	V	151	107	20.20	6.13	24.18	0.262	38.45	-14.27
836.60	GSM850	V	123	118	19.13	6.18	23.16	0.207	38.45	-15.29
848.80	GSM850	V	162	103	20.57	6.41	24.83	0.304	38.45	-13.63
836.60	GSM850	Н	215	60	19.27	6.73	23.85	0.242	38.45	-14.61
836.60	EDGE850	V	162	103	15.20	6.41	19.46	0.088	38.45	-19.00
836.60	GSM850 (WCP)	Н	208	77	18.24	6.73	22.82	0.191	38.45	-15.64

Table 7-10. ERP Data (GPRS Cell – Main ANT)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
826.40	WCDMA850	н	215	71	9.96	6.67	14.48	0.028	38.45	-23.97	
836.60	WCDMA850	Н	202	75	10.00	6.74	14.59	0.029	38.45	-23.86	
846.60	WCDMA850	Н	208	63	10.22	6.78	14.85	0.031	38.45	-23.60	
846.60	WCDMA850	V	150	70	10.51	6.38	14.74	0.030	38.45	-23.71	
846.60	WCDMA850 (WCP)	Н	205	78	7.36	6.78	11.99	0.016	38.45	-26.46	

Table 7-11. ERP Data (WCDMA Cell – Main ANT)

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7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 - Section 5.5.4

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW \geq 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points \geq 2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

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The EUT and measurement equipment were set up as shown in the diagram below.

Figure 7-8. Test Instrument & Measurement Setup > 1GHz

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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(dB\mu V/m) =$ Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m) b) EIRP (dBm) = $E(dB\mu V/m) + 20logD - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated, and the worst-case configuration results are reported in this section.
- 10) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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LTE Band 5 – Main ANT

Bandwidth (MHz):		10							
Frequency (MHz):		836.5							
RB / Offset:	et: 1/25								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
200.00	V	-	-	-76.61	20.24	50.63	-44.63	-13.00	-31.63
500.00	V	-	-	-79.54	25.69	53.15	-42.11	-13.00	-29.11

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Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit (dBm)	Margin [dB]
1658.00	V	-	-	-77.19	-3.75	26.06	-69.19	-13.00	-56.19
2487.00	V	187	66	-77.04	0.56	30.52	-64.73	-13.00	-51.73
3316.00	V	-	-	-78.11	1.92	30.81	-64.45	-13.00	-51.45
4145.00	V	-	-	-78.19	2.87	31.68	-63.58	-13.00	-50.58
4974.00	V	-	-	-78.95	4.07	32.12	-63.14	-13.00	-50.14

Field

Strength

[dBµV/m]

26.08

35.53

30.74

31.53

32.10

EIRP Spurious

Emission Level

[dBm]

-69.17

-59.73

-64.52

-63.73

-63.15

Limit [dBm] Margin [dB]

-56.17

-46.73

-51.52

-50.73

-50.15

-13.00

-13.00

-13.00

-13.00

-13.00

Table 7-13. Radiated Spurious Data (LTE Band 5 – Low Channel – Main ANT)

Bandwidth (MHz):					
Frequency (MHz):		836.5			
RB / Offset:		1/25			
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]
1673.00	V	-	-	-77.37	-3.55
2509.50	V	182	12	-72.27	0.80
3346.00	V	-	-	-78.21	1.95
4182.50	V	-	-	-78.42	2.95
5019.00	V	-	-	-79.23	4.33

Table 7-14. Radiated Spurious Data (LTE Band 5 – Mid Channel – Main ANT)

Bandwidth (MHz):		10				
Frequency (MHz):	844					
RB / Offset:	1/25					
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ana Lo [d		

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Azimuth [degree]	Level [dBm]	AFCL [dB/m]	Strength [dBµV/m]	Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	V	-	-	-77.24	-3.19	26.57	-68.69	-13.00	-55.69
2532.00	V	304	370	-74.26	1.17	33.91	-61.34	-13.00	-48.34
3376.00	V	-	-	-77.55	1.79	31.24	-64.02	-13.00	-51.02
4220.00	V	-	-	-77.82	2.94	32.12	-63.13	-13.00	-50.13
5064.00	V	-	-	-79.44	4.86	32.42	-62.83	-13.00	-49.83

Table 7-15. Radiated Spurious Data (LTE Band 5 – High Channel – Main ANT)

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LTE Band 5 – Sub ANT

Bandwidth (MHz):		10							
Frequency (MHz):		836.5							
RB / Offset:		1/25							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
617.50	Н	_	-	-98 26	26 79	35 53	-59 73	-13 00	-46 73

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Bandwidth (MHz):	10
Frequency (MHz):	829
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1658.00	Н	-	-	-75.33	-8.39	23.28	-71.98	-13.00	-58.98
2487.00	Н	-	-	-76.06	-4.12	26.82	-68.44	-13.00	-55.44
3316.00	Н	-	-	-76.71	-1.64	28.65	-66.61	-13.00	-53.61

Table 7-17. Radiated Spurious Data (LTE Band 5 – Low Channel – Sub ANT)

Bandwidth (MHz): Frequency (MHz):		10 836.5							
RB / Offset:		1/25							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]					
1673.00	Н	-	-	-75.41					
2509.50	Н	-	-	-76.05					
3346.00	Н	-	-	-76.06					

Table 7-18. Radiated Spurious Data (LTE Band 5 – Mid Channel – Sub ANT)

Field

Strength

[dBµV/m]

23.55

27.16

29.46

AFCL

[dB/m]

-8.04

-3.79

-1.48

EIRP Spurious

Emission Level

[dBm]

-71.71

-68.10

-65.80

Limit [dBm] Margin [dB]

-58.71

-55.10

-52.80

-13.00

-13.00

-13.00

Bandwidth (MHz):		10 844							
RB / Offset:	ifset: 1/25								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1688.00	Н	-	-	-75.55	-7.80	23.65	-71.61	-13.00	-58.61
2532.00	Н	-	-	-75.90	-3.65	27.45	-67.81	-13.00	-54.81
3376.00	Н	-	-	-76.71	-1.35	28.94	-66.31	-13.00	-53.31

Table 7-19. Radiated Spurious Data (LTE Band 5 – High Channel – Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager				
Test Report S/N:	Test Dates:	EUT Type:	Dago 00 of 117			
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NR Band n5 – Main ANT

FCC ID: PY7-76056F		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 117
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			1/2 0 1/1/2022

Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1/53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.00	V	-	-	-75.02	-8.15	23.83	-71.42	-13.00	-58.42
2502.00	V	107	202	-73.43	-3.92	29.65	-65.60	-13.00	-52.60
3336.00	V	-	-	-77.05	-1.54	28.41	-66.85	-13.00	-53.85
4170.00	V	-	-	-77.61	0.22	29.61	-65.65	-13.00	-52.65
5004.00	V	-	-	-78.20	1.26	30.06	-65.20	-13.00	-52.20

Table 7-21. Radiated Spurious Data (NR Band n5 - Low Channel - Main ANT)

Bandwidth (MHz):		20				
Frequency (MHz):		836.5				
RB / Offset:		1/53				
Mode:						
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]		
Frequency [MHz]	Ant. Pol. [H/V] V	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm] -75.10		
Frequency [MHz] 1673.00 2509.50	Ant. Pol. [H/V] V V	Antenna Height [cm] -	Turntable Azimuth [degree] -	Analyzer Level [dBm] -75.10 -76.06		

Table 7-22. Radiated Spurious Data (NR Band n5 – Mid Channel – Main ANT)

Field

Strength

[dBµV/m]

23.86

27.15

29.36

AFCL

[dB/m]

-8.04

-3.79

-1.48

EIRP Spurious

Emission Level

[dBm]

-71.40

-68.11

-65.90

Limit [dBm] Margin [dB]

-58.40

-55.11

-52.90

-13.00

-13.00

-13.00

Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1/53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.00	V	-	-	-75.49	-7.94	23.57	-71.68	-13.00	-58.68
2517.00	V	111	216	-76.26	-3.73	27.01	-68.25	-13.00	-55.25
3356.00	V	-	-	-76.69	-1.43	28.88	-66.38	-13.00	-53.38
4195.00	V	-	-	-77.51	-0.03	29.46	-65.80	-13.00	-52.80
5034.00	V	-	-	-78.32	1.46	30.14	-65.12	-13.00	-52.12

Table 7-23. Radiated Spurious Data (NR Band n5 – High Channel – Main ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager				
Test Report S/N:	Test Dates:	EUT Type:	Dogo 101 of 117			
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NR Band n5 – Sub ANT

FCC ID: PY7-76056F		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 117	
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			V/2 0 4/4/2022	

Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1 / 50
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1668.00	Н	-	-	-75.20	-8.15	23.65	-71.60	-13.00	-58.60
2502.00	Н	-	-	-75.62	-3.92	27.46	-67.79	-13.00	-54.79
3336.00	Н	-	-	-76.35	-1.54	29.11	-66.15	-13.00	-53.15

Table 7-25. Radiated Spurious Data (NR Band n5 – Low Channel – Sub ANT)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 50
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.00	Н	122	249	-75.07	-8.04	23.89	-71.37	-13.00	-58.37
2509.50	Н	-	-	-76.05	-3.79	27.16	-68.10	-13.00	-55.10
3346.00	Н	-	-	-76.13	-1.48	29.39	-65.87	-13.00	-52.87
4182.50	Н	-	-	-76.79	0.24	30.45	-64.81	-13.00	-51.81

Table 7-26. Radiated Spurious Data (NR Band n5 – Mid Channel – Sub ANT)

Sample #:	
Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1 / 50
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.00	Н	165	235	-75.99	-7.94	23.07	-72.18	-13.00	-59.18
2517.00	Н	-	-	-76.69	-3.73	26.58	-68.68	-13.00	-55.68
3356.00	Н	-	-	-77.04	-1.43	28.53	-66.73	-13.00	-53.73
4195.00	Н	-	-	-77.23	-0.03	29.74	-65.52	-13.00	-52.52

Table 7-27. Radiated Spurious Data (NR Band n5 – High Channel – Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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EN-DC Configuration

1

Bandwidth (MHz):		20							
Frequency (MHz):		836.5							
RB / Offset:		1/53 & 1/50							
Mode:		EN-DC							
Anchor Band:		LTE Band 2							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
183.30	Н	-	-	-87.94	18.55	37.61	-57.65	-13.00	-44.65

Plot 7-143. Radiated Spurious Plot 1GHz – 18GHz (EN-DC n5-B2 Main ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 104 of 117
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20
836.5
1/53 & 1/50
EN-DC
LTE Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.0	Н	365	255	-74.81	-3.65	28.54	-66.72	-13.00	-53.72
2932.0	Н	-	-	-75.09	2.03	33.94	-61.32	-13.00	-48.32
3967.0	Н	-	-	-76.83	3.37	33.54	-61.72	-13.00	-48.72
4596.5	Н	-	-	-77.09	4.69	34.60	-60.66	-13.00	-47.66

Table 7-29. Radiated Spurious Data (EN-DC n5-B2 Main ANT)

Bandwidth (MHz):	20 8	& 20							
Frequency (MHz):	836.5	&1880							
RB / Offset:	1/53	& 1/50							
Mode:	EN	-DC							
Anchor Band:	:	2							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
422.5	V	-	-	-92.19	24.01	38.82	-56.43	-13.00	-43.43

Table 7-30. Radiated Spurious Data (EN-DC n5-B2 Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dega 105 of 117	
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Plot 7-145. Radiated Spurious Plot 1GHz – 18GHz (EN-DC n5-B2 Sub ANT)

Sample #:	00001
Bandwidth (MHz):	20 & 20
Frequency (MHz):	836.5 &1880
RB / Offset:	1/53 & 1/50
Mode:	EN-DC
Anchor Band:	2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
422.5	V	-	-	-90.04	24.01	40.97	-54.28	-13.00	-41.28
2509.5	V	305	10	-66.15	0.73	41.58	-53.68	-13.00	-40.68
4596.5	V	-	-	-78.89	4.69	32.80	-62.46	-13.00	-49.46
7942.5	V	-	-	-80.61	8.09	34.48	-60.78	-13.00	-47.78
10029.5	V	-	-	-80.54	10.35	36.81	-58.45	-13.00	-45.45

Table 7-31. Radiated Spurious Data (EN-DC n5-B2 Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager		
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GSM/GPRS Cell – Main ANT

Table 7-32. Radiated Spurious Data (GPRS Cell – Mid Channel)

FCC ID: PY7-76056F		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 107 of 117
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Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit (dBm)	Margin [dB]
1648.40	Н	168	113	-61.93	-3.94	41.13	-54.13	-13.00	-41.13
2472.60	Н	182	64	-73.39	0.32	33.93	-61.33	-13.00	-48.33
3296.80	Н	131	150	-68.82	2.00	40.18	-55.08	-13.00	-42.08
4121.00	Н	-	-	-77.16	2.95	32.79	-62.47	-13.00	-49.47
4945.20	Н	-	-	-77.02	3.76	33.74	-61.51	-13.00	-48.51
5769.40	Н	-	-	-77.14	5.42	35.28	-59.98	-13.00	-46.98

Table 7-33. Radiated Spurious Data (GPRS Cell – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.20	Н	160	161	-66.52	-3.65	36.83	-58.43	-13.00	-45.43
2509.80	Н	170	150	-54.69	0.74	53.05	-42.21	-13.00	-29.21
3346.40	Н	127	158	-70.23	1.85	38.62	-56.64	-13.00	-43.64
4183.00	Н	390	141	-74.53	2.76	35.23	-60.02	-13.00	-47.02
5019.60	Н	-	-	-76.89	4.18	34.29	-60.96	-13.00	-47.96
5856.20	Н		-	-77.55	5.68	35.13	-60.12	-13.00	-47.12
6692.80	Н	-	-	-77.37	6.91	36.54	-58.72	-13.00	-45.72

Table 7-34. Radiated Spurious Data (GPRS Cell – Mid Channel)

Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1697.60	Н	150	322	-64.94	-2.97	39.09	-56.16	-13.00	-43.16
2546.40	Н	199	152	-57.35	1.23	50.88	-44.38	-13.00	-31.38
3395.20	н	152	165	-70.05	1.61	38.56	-56.69	-13.00	-43.69
4244.00	н	384	169	-73.84	2.95	36.11	-59.15	-13.00	-46.15
5092.80	Н	-	-	-77.21	4.56	34.35	-60.91	-13.00	-47.91
5941.60	Н	-	-	-77.52	5.72	35.20	-60.06	-13.00	-47.06
6790.40	Н	-	-	-77.53	6.76	36.23	-59.03	-13.00	-46.03

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			1000000	

Case:	w/ Wireless Charging Pad
Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.20	Н	156	103	-67.12	-3.65	36.23	-59.03	-13.00	-46.03
2509.80	Н	128	148	-55.72	0.74	52.02	-43.24	-13.00	-30.24
3346.40	Н	158	151	- <mark>69.9</mark> 5	1.85	38.90	-56.36	-13.00	-43.36
4183.00	Н	385	163	-74.27	2.76	35.49	-59.76	-13.00	-46.76
5019.60	Н	-	-	-77.02	4.18	34.16	-61.09	-13.00	-48.09
5856.20	Н	-	-	-77.83	5.68	34.85	-60.40	-13.00	-47.40
6692.80	Н	-	-	-77.17	6.91	36.74	-58.52	-13.00	-45.52

Table 7-36. Radiated Spurious Data with WCP (GPRS Cell)

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WCDMA Cell – Main ANT

Mode:		WCDMA RMC							
Channel:		4183							
Frequency (MHz):		836.6							
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
518.20	V	-	-	-89.96	25.73	42.77	-54.64	-13.00	-41.64

Table 7-37. Radiated Spurious Data (WCDMA Cell – Mid Channel)

Plot 7-149. Radiated Spurious Plot (WCDMA Cell)

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Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1652.80	V	-	-	-76.94	-0.94	29.12	-66.14	-13.00	-53.14
2479.20	V	-	-	-77.98	3.24	32.26	-62.99	-13.00	-49.99
3305.60	V	-	-	-78.44	4.65	33.21	-62.04	-13.00	-49.04

Table 7-38. Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC	
Channel:	4183	
Frequency (MHz):	836.6	
		Turntable

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1673.20	V	-	-	-76.91	-0.91	29.18	-66.08	-13.00	-53.08
2509.80	V	-	-	-77.98	3.53	32.55	-62.71	-13.00	-49.71
3346.40	V	-	-	-78.84	5.11	33.27	-61.98	-13.00	-48.98

Table 7-39. Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1693.20	V	-	-	-76.79	-0.84	29.37	-65.88	-13.00	-52.88
2539.80	V	-	-	-77.93	3.06	32.13	-63.12	-13.00	-50.12
3386.40	V	-	-	-78.43	5.02	33.59	-61.67	-13.00	-48.67

Table 7-40. Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: PY7-76056F		PART 22 MEASUREMENT REPORT			
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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

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LTE Band 5							
	Operating	Frequency (Hz):	836,50	00,000			
	Ref	. Voltage (VDC):	4.1	28			
		Deviation Limit:	± 0.00025%	or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	836,590,867	-233	-0.0000279		
	!	- 20	836,592,145	1,045	0.0001249		
	'	- 10	836,592,518	1,418	0.0001695		
	'	0	836,589,257	-1,843	-0.0002203		
100 %	4.28	+ 10	836,593,109	2,009	0.0002401		
		+ 20 (Ref)	836,591,100	0	0.0000000		
	'	+ 30	836,589,367	-1,733	-0.0002072		
	'	+ 40	836,589,595	-1,505	-0.0001799		
		+ 50	836,591,876	776	0.0000928		
Battery Endpoint	3.69	+ 20	836,592,468	1,368	0.0001635		

Table 7-41. LTE Band 5 (Main ANT) Frequency Stability Data

Plot 7-150. LTE Band 5 Frequency Stability Chart

FCC ID: PY7-76056F	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 112 of 117
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			V/2 0 4/4/2022

NR Band n5							
	Operating	Frequency (Hz):	836,50	00,000			
	Ref	. Voltage (VDC):	4.	28			
		Deviation Limit:		or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	836,580,749	322	0.0000385		
	1	- 20	836,581,151	724	0.0000865		
	1	- 10	836,580,639	212	0.0000253		
	'	0	836,581,758	1,331	0.0001591		
100 %	4.28	+ 10	836,582,123	1,696	0.0002027		
	1	+ 20 (Ref)	836,580,427	0	0.0000000		
	'	+ 30	836,580,768	341	0.0000408		
,	'	+ 40	836,579,375	-1,052	-0.0001258		
		+ 50	836,581,149	722	0.0000863		
Battery Endpoint	3.69	+ 20	836,580,464	37	0.0000044		

	Table 7-42. NR Band n5	(Main AN	IT) Frequency	Stability	Data
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Plot 7-151. NR Band n5 Frequency Stability Chart

FCC ID: PY7-76056F	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dago 114 of 117
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			1/2 0 1/4/2022

GSM/GPRS Cellular							
	Operating	Frequency (Hz):	836,60	00,000			
	Ref	. Voltage (VDC):	4.1	28			
		Deviation Limit:	± 0.00025%	or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	836,598,185	1,095	0.0001309		
	!	- 20	836,598,476	1,386	0.0001657		
	'	- 10	836,596,851	-239	-0.0000286		
	'	0	836,598,226	1,136	0.0001358		
100 %	4.28	+ 10	836,597,893	803	0.0000960		
	'	+ 20 (Ref)	836,597,090	0	0.0000000		
	/	+ 30	836,598,470	1,380	0.0001650		
	/	+ 40	836,597,029	-61	-0.0000073		
		+ 50	836,598,543	1,453	0.0001737		
Battery Endpoint	3.69	+ 20	836,597,855	765	0.0000914		

Plot 7-152. GSM/GPRS Cell Frequency Stability Chart

FCC ID: PY7-76056F	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 115 of 117
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WCDMA Cellular							
	Operating	Frequency (Hz):	836,60	00,000			
	Ref	. Voltage (VDC):	4.:	28			
		Deviation Limit:	± 0.00025%	or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	836,600,951	-1,209	-0.0001445		
1	'	- 20	836,604,018	1,858	0.0002221		
1	'	- 10	836,603,468	1,308	0.0001563		
1	'	0	836,601,647	-513	-0.0000613		
100 %	4.28	+ 10	836,602,634	474	0.0000567		
1	'	+ 20 (Ref)	836,602,160	0	0.0000000		
/	'	+ 30	836,603,421	1,261	0.0001507		
	'	+ 40	836,602,709	549	0.0000656		
	!	+ 50	836,601,454	-706	-0.0000844		
Battery Endpoint	3.69	+ 20	836,602,941	781	0.0000934		

Table 7-44. WCDMA Cell Frequency Stability Dat
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Plot 7-153. WCDMA Cell Frequency Stability Chart

FCC ID: PY7-76056F	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 116 of 117
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			V/2 0 4/4/2022

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sony Corporation Portable Handset FCC ID: PY7-76056F** complies with all the requirements of Part 22 of the FCC rules.

FCC ID: PY7-76056F	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dago 117 of 117
1M2205240063-04-R1.PY7	06/03/2022 - 07/29/2022	Portable Handset	Fage II/ 01 11/
			V/3 0 1/4/2022