

🔤 Keysight Spectrum Analyzer -	Swept SA				
1,XI RL RF 50	Ω DC CORREC	SENSE:INT	ALIGN AUTO	11:40:53 AM Aug 09, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide +++ IFGain:Low	Trig: Free Run #Atten: 36 dB			Auto Tune
10 dB/div Ref 25.00	) dBm		MKr	-25.86 dBm	
15.0		Ĭ			Center Freq 1.91000000 GHz
5.00	and had been all and a second s				Start Freq 1.902000000 GHz
-15.0		1			<b>Stop Freq</b> 1.918000000 GHz
-35.0				mound	<b>CF Step</b> 1.600000 MHz <u>Auto</u> Man
-45.0					Freq Offset 0 Hz
-65.0					Scale Type
Center 1.910000 GH #Res BW 240 kHz	z #VBW :	820 kHz	Sweep	Span 16.00 MHz 1.000 ms (1001 pfs)	Log <u>Lin</u>
MSG			STATU	JS	

Plot 7-74. Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK – Full RB)



Plot 7-75. Extended Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK – Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 55 of 116
1M2108040087-03-R1.PY7	8/2 - 9/23/2021	Portable Handset		Fage 55 01 110
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🔤 Key	sight Spe	ctrum Analyzer -	Swept SA								-	
<b>l,XI</b> RL	-	RF 5	0Ω DC	CORREC	SEN	ISE:INT	#Ava Tvp	ALIGN AUTO	11:41:07 AM	Aug 09, 2021	Fre	quency
PAS	S			PNO: Wide ↔ IFGain:Low	. Trig: Free #Atten: 3	e Run 6 dB	#/19 Jyp	e. Kino	TYP			
10 dE	3/div	Ref 25.0	0 dBm					Mkr	1 1.915 0 -28.:	16 GHz 28 dBm	,	auto i une
15.0	Trace	e 1 Pass									Ce 1.9150	e <b>nter Freq</b> 000000 GHz
5.00 -5.00											1.9070	<b>Start Freq</b> 000000 GHz
-15.0 -25.0					- la	1					1.9230	<b>Stop Freq</b> 000000 GHz
-35.0 -45 N						man and a second	mar day mar have been grown		March March	mon	1.6 <u>Auto</u>	CF Step 500000 MHz Man
-55.0											F	r <b>eq Offset</b> 0 Hz
-65.0											S	cale Type
Cent #Res	ter 1.9 BM	15000 GH 240 kHz	Z	#VBIA	820 kHz			Sween	Span 1 1 000 ms (	6.00 MHz 1001 nts)	Log	Lin
MSG		- TV 10112						STATL	JS	nee i proj		

Plot 7-76. Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK - Full RB)



Plot 7-77. Extended Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK – Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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🔤 Keysight Spectrum Analyzer - Swept SA	
IX         RF         50 Ω         DC         CORREC         SENSE:INT         ALIGN AUTO         11:44:18 AM Aug 09, 2021           #Δ vg Type:         BMS         TRACE         TR	Frequency
PASS PNO: Wide ↔ Trig: Free Run Trype A www. IFGain:Low #Atten: 36 dB DET A NNNNN	
Mkr1 1.849 928 GHz           10 dB/div         Ref 25.00 dBm         -29.97 dBm	Auto Tune
150 Trace 1 Pass	Center Freq 1.85000000 GHz
-5.00	<b>Start Freq</b> 1.844000000 GHz
-15.0	<b>Stop Freq</b> 1.856000000 GHz
-35.0	<b>CF Step</b> 1.200000 MHz <u>Auto</u> Man
-55.0	<b>Freq Offset</b> 0 Hz
65.0	Scale Type
Center 1.850000 GHz Span 12.00 MHz #Res BW 180 kHz #VBW 620 kHz Sween 1.000 ms (1001 nts)	

Plot 7-78. Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK – Full RB)



Plot 7-79. Extended Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK – Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA									×
LXIRL RF 50Ω DC	CORREC	SEN	ISE:INT	#Avg Tvp	ALIGN AUTO	11:45:30 Al TRAC	4 Aug 09, 2021	Frequency	
PASS	PNO: Wide ↔	Trig: Free	Run			TYP			
	IFGain:Low	#Atten: 30			Mice	1 1 010 0	24 CH-	Auto Tur	ne
10 dB/div Ref 25.00 dBm					IVIKI	-27.2	38 dBm		
Trace 1 Pass								Center Fre	ea
15.0								1.910000000 GI	Hz
									_
5.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~						Otest Fra	
								1 904000000 G	eq Hz
-5.00								1.504000000 GI	12
15.0									
-15.0		l						Stop Fre	pe
-25.0		- M	1					1.916000000 GF	ΗZ
			mon	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	human				
-35.0						mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CF Ste 1 20000 M	эр На
								Auto Ma	an
-45.0									
55.0								Freq Offs	et
-55.0								01	Ηz
-65.0									
								Scale Typ	be
Contor 1 010000 CH2						- Enor	2.00 MH=	Loa L	in
#Res BW 180 kHz	#VBW	620 kHz			Sweep	span 1 1.000 m <u>s (</u>	2.00 MH2 1001 pt <u>s)</u>		
MSG					STATU	JS			_

Plot 7-80. Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK – Full RB)



Plot 7-81. Extended Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @viernest	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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www.commanalyzer - Swept SA				
🗱 RL RF 50Ω DC CO	RREC SEN	ISE:INT #Avg Typ	ALIGN AUTO 11:45:44 AM	M Aug 09, 2021 Frequency
PASS P	NO: Wide ↔ Trig: Free Gain:Low #Atten: 36	a Run 6 dB	TYF	
10 dB/div Ref 25.00 dBm			Mkr1 1.915 0 -28.	12 GHz Auto Tune 58 dBm
15.0				Center Freq 1.915000000 GHz
-5.00				Start Freq 1.909000000 GHz
-15.0	- Harris	1		<b>Stop Freq</b> 1.921000000 GHz
-35.0		Mar	mm - mm	CF Step 1.200000 MHz <u>Auto</u> Man
-55.0				Freq Offset 0 Hz
-65.0				Scale Type
Center 1.915000 GHz #Res BW 180 kHz	#VBW 620 kHz		Span 1 Sweep 1.000 ms (	2.00 MHz L <sup>09</sup> Lin (1001 pts)
MSG			STATUS	

Plot 7-82. Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK - Full RB)



Plot 7-83. Extended Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK – Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-84. Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK – Full RB)



Plot 7-85. Extended Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK – Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 60 of 116
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- Register operation Analyzer onepros	
LX RL RF 50 Ω DC CORREC SENSE:INT ALIGN AUTO 11:48:28 AM Aug 09, 2021 #Avg Type: RMS TRACE 10.2.2.1.5.4	equency
PASS PNO: Wide +++ Trig: Free Run #Atten: 36 dB DET A NNNNN	
Mkr1 1.910 032 GHz           10 dB/div         Ref 25.00 dBm           -28.55 dBm	Auto Tune
Trace 1 Pass 15.0 C 1.910	<b>enter Freq</b> 000000 GHz
5.00	Start Freq 000000 GHz
-15.0 1 1.914	<b>Stop Freq</b> 000000 GHz
-35.0	<b>CF Step</b> 800.000 kHz Man
-45.0	F <b>req Offset</b> 0 Hz
	Scale Type
Center 1.910000 GHz Span 8.000 MHz Log #Res BW 120 kHz #VBW 430 kHz Sweep 13.33 ms (1001 pts)	Lin

Plot 7-86. Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK – Full RB)



Plot 7-87. Extended Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @viernest	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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🔤 Keysight Spectrur	m Analyzer - Swept SA									
LXIRL I	RF 50 Ω DC	CORREC	SEN	ISE:INT	#Ava Tvp	ALIGN AUTO	11:48:44 A	4 Aug 09, 2021	F	requency
PASS		PNO: Wide ++ IFGain:Low	. Trig: Free #Atten: 3	eRun 6dB	mora i Ab	Miced				Auto Tune
10 dB/div R	ef 25.00 dBm					WIKET	-34.	59 dBm		
15.0	Pass								( 1.91	<b>Center Freq</b> 5000000 GHz
5.00	MAAN WALANG MANAGANA	<b>*</b> ~******	ler Wry						1.91	<b>Start Freq</b> 1000000 GHz
-15.0									1.91	<b>Stop Freq</b> 9000000 GHz
-35.0			n <sub>w</sub>	1	ومحمد ومعارضه ومراجع	مقرافاتيه هملاطلوم	hv=qrt+y+ser	لمانى ئەرمەنىرىدۇ. ئىرىمانىيە ئەرمەنىرىدۇ.	<u>Auto</u>	<b>CF Step</b> 800.000 kHz Man
-45.0										Freq Offset 0 Hz
-65.0										Scale Type
Center 1.915 #Res BW 120	000 GHz	#VRW	430 kHz			Sween 1	Span 8 3 33 ms (	.000 MHz 1001 pts)	Log	Lin
MSG						STATUS		na proj		

Plot 7-88. Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK - Full RB)



Plot 7-89. Extended Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK – Full RB)

FCC ID: PY7-95324M	Poud to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA					
LX/ RL RF 50Ω DC CO	DRREC SEN	NSE:INT #Ava Tv	ALIGN AUTO 11:50:44	AM Aug 09, 2021	Frequency
PASS	PNO: Wide +++ Trig: Free FGain:Low #Atten: 3	e Run 6 dB	T		
10 dB/div Ref 25.00 dBm			Mkr1 1.849 -30	988 GHz .03 dBm	Auto Tune
15.0 Trace 1 Pass					Center Freq 1.85000000 GHz
-5.00			and the second se	114/24/2011/94/2012-04/2017	<b>Start Freq</b> 1.848000000 GHz
-15.0		1			<b>Stop Freq</b> 1.852000000 GHz
-35.0	and and a strend and				<b>CF Step</b> 400.000 kHz <u>Auto</u> Man
-55 0					<b>Freq Offset</b> 0 Hz
-65.0					Scale Type
#Res BW 62 kHz	#VBW 220 kHz		Span Sweep 6.667 ms	4.000 MHz ( (1001 pts)	
MSG			STATUS		

Plot 7-90. Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK - Full RB)



Plot 7-91. Extended Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @viercent	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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🧫 Keysight Spectrum Analyzer - Swept SA					
XX RL RF 50 Ω DC COF	RREC SEN	NSE:INT A	LIGN AUTO 11:51:26 AM	M Aug 09, 2021	Frequency
PASS Pr	NO: Wide +++ Trig: Free Gain:Low #Atten: 3	eRun 6 dB	TYF		
10 dB/div Ref 25.00 dBm			Mkr1 1.910 0 -28.	08 GHz 80 dBm	Auto Tune
15.0 Trace 1 Pass					Center Freq 1.91000000 GHz
5.00 <mark>M MANYAWA ANYANYA ANYA ANYA ANYA ANYA ANYA </mark>	an faith a faith an				Start Freq 1.90800000 GHz
-15.0		1			<b>Stop Freq</b> 1.912000000 GHz
-35.0	')	h. My Mar May 10 Martin Wy	lune mering have hall have	un Al	<b>CF Step</b> 400.000 kHz <u>uto</u> Man
-65.0					<b>Freq Offset</b> 0 Hz
-65.0					Scale Type
Center 1.910000 GHz #Res BW 62 kHz	#VBW 220 kHz		Span 4 Sweep 6.667 ms (	.000 MHz	og <u>Lin</u>
MSG			STATUS		

Plot 7-92. Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK – Full RB)



Plot 7-93. Extended Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 64 of 116
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www.www.com.com.com.com.com.com.com.com.com.com					
LXI RL RF 50 Ω DC CORRE	C SENS	SE:INT #Avg Type	ALIGN AUTO 11:51:40 A	M Aug 09, 2021	Frequency
PASS PNO: IFGain	Wide ↔ Trig: Free n:Low #Atten: 36	Run idB	TYF		
10 dB/div Ref 25.00 dBm			Mkr1 1.915 0 -29.	04 GHz 05 dBm	Auto Tune
15.0				1.	Center Freq 915000000 GHz
5.00	untur m			1	Start Freq 913000000 GHz
-15.0		,1		1.	<b>Stop Freq</b> 917000000 GHz
-35.0		have a second a secon	and a stand of the second stand stand of the second stand of the second stand of the s	MM MM	CF Step 400.000 kHz o Man
-55.0					<b>Freq Offset</b> 0 Hz
-65.0					Scale Type
Center 1.915000 GHz #Res BW 62 kHz	#VBW 220 kHz		Span 4 Sweep 6.667 ms (	.000 MHz Log 1001 pts)	Lin
MSG			STATUS		

Plot 7-94. Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK - Full RB)



Plot 7-95. Extended Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @viernest	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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🔤 Keysight Spectrum .	Analyzer - Swept SA									
<b>LXI</b> RL RF	50 Ω DC (	CORREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO	11:53:32 A	M Aug 09, 2021	F	requency
PASS		PNO: Wide	Trig: Free #Atten: 36	Run i dB	#rig iyp		TYF			
10 dB/div Rei	f 25.00 dBm					Mkr1	1.849 9 -29.	96 GHz 03 dBm		Auto I une
15.0	Pass								1.85	<b>Center Freq</b> 0000000 GHz
-5.00				Ann	mm Martha	-Unwlower	may man	mmmn	1.84	Start Freq 8000000 GHz
-15.0				1					1.85	Stop Freq 2000000 GHz
-35.0	www.	www.	www.www.www.						Auto	<b>CF Step</b> 400.000 kHz Man
-55.0										Freq Offset 0 Hz
-65.0										Scale Type
Center 1.8500 #Res BW 36 k	00 GHz Hz	#VBW	120 kHz		9	Sweep (	Span 4 6.667 m <u>s (</u>	.000 MHz 1001 pt <u>s)</u>	Log	Lin
MSG						STATU	S			

Plot 7-96. Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK - Full RB)



Plot 7-97. Extended Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK – Full RB)

FCC ID: PY7-95324M	Proved to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA	
LX RL RF 50 Ω DC CORREC SENSE:INT ALIGN AUTO 11:54:14 AM Aug 09, 2021	Jency
PASS PNO: Wide $\rightarrow \rightarrow$ Trig: Free Run IFGain:Low #Atten: 36 dB DET ANNINN	ito Tune
Mkr1 1.910 004 GHz 10 dB/div Ref 25.00 dBm -26.16 dBm	
15.0 Trace 1 Pass Cer 15.0 19.000	<b>nter Freq</b> 0000 GHz
5.00 mm/w/m/m/m/m/m/m/m/m/m/m/m/m/m/m/m/m/m/	<b>tart Freq</b> 0000 GHz
-15.0 -25.0	<b>top Freq</b> 0000 GHz
-35.0 Auto 40	<b>CF Step</b> 0.000 kHz Man
-55.0	e <b>q Offset</b> 0 Hz
Sc.	ale Type
Center 1.910000 GHz Span 4.000 MHz	LIN
MSG STATUS	

Plot 7-98. Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK – Full RB)



Plot 7-99. Extended Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @viercent	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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🔤 Key	ysight Spe	ctrum Analyzer -	Swept SA									
l <b>XI</b> RI	L	RF 5	DΩ DC	CORREC	SEI	NSE:INT	#Ava Tva	ALIGN AUTO	11:54:27 Al TRAC	M Aug 09, 2021	F	requency
PAS	S			PNO: Wide ↔	Trig: Fre	e Run			TYP			
				IFGain:Low	#Atten: 5	0 00		Mkr1	1 915 0			Auto Tune
10 de	3/div	Ref 25.0	0 dBm						-26.	62 dBm		
203	Trace	e 1 Pass				Ĩ						Center Freg
15.0											1.91	5000000 GHz
5.00	mwww	monter	www.ww	www.	wwww							Start Freq
-5.00											1.91	3000000 GHz
-15.0					<u> </u>							Stop Freq
					1 A.	1					1.91	7000000 GHz
-25.0					η. Γ							
-35.0						My						CF Step
						· * "~~~	M. Mannah	ann with	ns buly hornor	mann	Auto	400.000 kHz Man
-45.0												
												Freq Offset
-55.0												0 Hz
-65.0												
												Scale Type
Cen	ter 1_0	15000 GL	7						Snan 4	000 MHz	Log	Lin
#Re	s BW	36 kHz		#VBV	/ 120 kHz			Sweep 6	6.667 ms (	1001 pts)		
MSG								STATU	S			

Plot 7-100. Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK - Full RB)



Plot 7-101. Extended Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @viercent	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-102. Lower Band Edge Plot (LTE Band 25/2 – 1.4MHz QPSK – Full RB)



Plot 7-103. Extended Lower Band Edge Plot (LTE Band 25/2 – 1.4MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @viernest	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 60 of 116
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🔤 Keysig	ght Spectrum Analyzer - Swept SA								
LXI RL	RF 50 Ω DC	CORREC	ENSE:INT	#Ava Tvp	ALIGN AUTO	11:57:09 A	4 Aug 09, 2021	Fre	equency
PASS		PNO: Wide ↔ Trig: Fr IFGain:Low #Atten:	ee Run 36 dB	#ANG TYP	Miced				Auto Tune
10 dB/c	div Ref 25.00 dBm		¥			-40.	60 dBm		
15.0 —	Irace 1 Pass							C 1.910	enter Freq
5.00 —		manalanta							
-5.00 —								1.908	Start Freq
-15.0									Stop Freq
-25.0 —								1.912	2000000 GHz
-35.0	when		1-					<u>Auto</u>	CF Step 400.000 kHz Man
-45.0				and have the	mm	m Am	MMM	F	req Offset
-55.0									0 Hz
-65.0								;	Scale Type
Cente #Res	er 1.910000 GHz BW 18 kHz	#VBW 56 kHz			Sweep 6	Span 4 .667 ms (	.000 MHz 1001 pts)	Log	Lin
MSG					STATUS				

Plot 7-104. Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB)



Plot 7-105. Extended Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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weysight Spectrum Analyzer - Swept SA				
XX RL RF 50Ω DC	CORREC SEN	ISE:INT ALIGN AUTO	11:57:24 AM Aug 09, 2021	Frequency
PASS	PNO: Wide +++ Trig: Free IFGain:Low #Atten: 36	Run 6 dB		Auto Tupe
10 dB/div Ref 25.00 dBm		Mkr1	1.915 024 GHz -34.52 dBm	Autorune
15.0				Center Freq 1.915000000 GHz
-5.00	man			Start Freq 1.913000000 GHz
-15.0				<b>Stop Freq</b> 1.917000000 GHz
-35.0		1 Marine Marine Marine	mary m	<b>CF Step</b> 400.000 kHz <u>Auto</u> Man
-55.0				Freq Offset 0 Hz
-00.0				Scale Type
Center 1.915000 GHz #Res BW 18 kHz	#VBW 56 kHz	Sweep 6	Span 4.000 MHz 5.667 ms (1001 pts)	Log <u>Lin</u>
MSG		STATU	s	

Plot 7-106. Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB)



Plot 7-107. Extended Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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# NR Band n2 – Ant1

Spectrum Analyzer 1			Frequency	/ 「影
KEYSIGHT         Input RF         Input Z: 50 Ω           R L         Coupling: DC         Corr CCorr           Align: Auto/No RF         Freq Ref: Int (NFE: Off	#Atten: 36 dB PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS123456 Trig: Free Run A WW WW A P N N N N	Center Frequency 1.850000000 GHz	Settings
1 Spectrum v		Mkr1 1.849 984 GHz	5pan 16.0000000 MHz	
Scale/Div 10 dB	Ref Level 25.00 dBm	-31.041 aBm	Swept Span Zero Span	
			Full Span	
5.00			Start Freq 1.842000000 GHz	
-5.00			Stop Freq 1.858000000 GHz	
-25.0	1		AUTO TUNE	
-35.0	month of the former		CF Step 1.600000 MHz	
-45.0			Auto Man	
-65.0			Freq Offset 0 Hz	
Center 1.850000 GHz #Res BW 240 kHz	#Video BW 820 kHz	Span 16.00 MHz Sweep 1.00 ms (1001 pts)	X Axis Scale Log Lin	
Aug 18, 202 6:59:15 PM			Signal Track (Span Zoom)	

Plot 7-108. Lower Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)



Plot 7-109. Lower Extended Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Spec Swep	trum Analy ot SA	/zer 1	+					Frequenc	y <b>t</b> 💥
KEY RL	/SIGHT ·≁· PASS	Input: RF Coupling: DC Align: Auto/No	Input Z: 50 Ω Corr CCorr RF Freq Ref: Int (\$ NFE: Off	#Atten: 36 dB 5)	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Por Trig: Free Run	wer (RMS <mark>123456</mark> A WW WW W A P N N N N	Center Frequency 1.910000000 GHz	Settings
1 Sp Scal	ectrum e/Div 10 d	v		Pef Level 25 00 c	18m	Mkr1	1.910 016 GHz	16.000000 MHz	
Log	Trace	1 Pass		Rei Level 23.00 C			-00.000 0.011	Swept Span Zero Span	
15.0								Full Span	
-5.00		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·····					Start Freq 1.902000000 GHz	
-15.0								Stop Freq 1.918000000 GHz	
-25.0								AUTO TUNE	
-35.0				ر سىر	many	······································	man and a start and a start and a start	CF Step	
-45.0								Auto	
-55.0								Freq Offset	
000.0	4.0400			#X6-1 DW( 000 )			8 4C 00 MU	X Axis Scale	
Cent #Res	er 1.91000 BW 240 I	NU GH2 (Hz		#Video BW 820 I	KHZ	Swee	span 16.00 MHz p 1.00 ms (1001 pts)	Log Lin	
E	5		Aug 18, 202 7:05:29 PM					Signal Track (Span Zoom)	

Plot 7-110. Upper Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)

Spectr Swept	rum Analyz : SA	ter 1 🔻	+					Frequency	/ 「影
KEY RL		Input: RF Coupling: DC Align: Auto/No R	Input Z: 50 Ω Corr CCorr F Freq Ref: Int (S) NFF <sup>-</sup> Off	#Atten: 36 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	ower (RMS <mark>1</mark> 23456 A WW WW W A P N N N N	Center Frequency 1.913000000 GHz	Settings
1 Spec	ctrum /Div 10 dE	<b>v</b>		Ref Level 25.00	dBm	Mkr1	1.911 000 GHz -26.396 dBm	Span 4.00000000 MHz	
Log	Trace	1 Pass						Zero Span	
15.0 5.00								Full Span	
-5.00								1.911000000 GHz	
-15.0								Stop Freq 1.915000000 GHz	
-25.0	1							AUTO TUNE	
-35.0								CF Step 400.000 kHz	
-45.0								Auto Man	
-65.0								Freq Offset 0 Hz	
Cente #Res	r 1.913000 BW 1.0 Mi	) GHz Hz		#Video BW 3.0 I	MHz	Swee	Span 4.000 MHz p ~6.97 ms (1001 pts)	X Axis Scale Log Lin	
	5		Aug 18, 2021 7:06:20 PM					Signal Track (Span Zoom)	

Plot 7-111. Upper Extended Band Edge Plot (NR Band n2 – 20.0MHz - Full RB)

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Spec Swe	trum Analyz pt SA	ter 1 🔻	+									Frequency	米
KE RL	YSIGHT -►- PASS	Input: RF Coupling: DC Align: Auto/No	Input Z: 5 Corr CCo RF Freq Ref NFE: Off	50 Ω # prr : Int (S)	#Atten: 36 dB	PNO: I Gate: 0 IF Gair Sig Tra	Best Wide Off n: Low ack: Off	#Avg Type: I Trig: Free R	Power (RMS un	1 2 3 4 5 6 A WW WW W A P N N N N	Center Fi 1.85000	requency 0000 GHz	Settings
1 Sp Sca	ectrum e/Div 10 dE	<b>▼</b>		R	ef Level 25.0	0 dBm		Mkr	1 1.849 -29.0	988 GHz 063 dBm	12.0000	000 MHz	
<b>Log</b>	Trace	1 Pass									Zero	Span	
5.00						mon	-		·····		Fu Start Free	ll Span 9	
-5.00											1.84400 Stop Free	0000 GHz 1	
-15.0						1					1.85600	0000 GHz	
-35.0						,' 					CF Step	OTUNE	
-45.0											1.20000	0 MHz	
-55.0											Freq Offs	et	
Cent	er 1 85000	GH7		#	Video BW 6	20 kHz			Snai	n 12 00 MHz	X Axis So	ale	
#Re:	BW 180 ki		<b>9</b> Aug 18	, 2021 🖳				Sw	eep 1.00 m	s (1001 pts)	Log Lin Signal Tr	ack	
			7:24:3	7 PM 🖒	-2						(Span Zoc	m)	

Plot 7-112. Lower Band Edge Plot (NR Band n2 – 15.0MHz - Full RB)

Spect Swept	rum Analyz : SA	ter 1 🔻	+					Frequency	亲
KEY RL	SIGHT	Input: RF Coupling: DC Align: Auto/No	Input Z: 50 Ω Corr CCorr RF Freq Ref: Int (S) NFE: Off	#Atten: 36 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Rur	ower (RMS <mark>123456</mark> 1 A <del>WWWW</del> A P N N N N	Center Frequency 1.847000000 GHz	Settings
1 Spe	ctrum	•				Mkr1	1.849 000 GHz	Span 4.00000000 MHz	
Scale Log	/Div 10 dE	3		Ref Level 25.00	dBm		-23.356 dBm	Swept Span Zero Span	
15.0	Irace	1 Pass						Full Span	
5.00								Start Freq	
-5.00								Stop Freg	
-15.0							1	1.849000000 GHz	
-25.0								AUTO TUNE	
-35.0						400,000,000,000,000,000,000,000,000,000		CF Step 400.000 kHz	
-45.0								Auto	
-55.0								Freq Offset	
-65.0								0 Hz	
Cente #Res	er 1.847000 BW 1.0 Mi	) GHz Hz		#Video BW 3.0	MHz	Swee	Span 4.000 MHz p ~6.97 ms (1001 pts)	X Axis Scale Log Lin	
	5		<b>Aug 18, 2021</b> 7:27:00 PM	$\square$				Signal Track (Span Zoom)	

Plot 7-113. Lower Extended Band Edge Plot (NR Band n2 – 15.0MHz - Full RB)

FCC ID: PY7-95324M	Proved to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-114. Upper Band Edge Plot (NR Band n2 – 15.0MHz - Full RB)

Spectr Swept	rum Analyze : SA	er 1 🔻	+							\$	Frequency	崇
KEY RL		nput: RF coupling: DC lign: Auto/No R	Input Z: 50 Ω Corr CCorr F Freq Ref: Int (S) NEE: Off	#Atten: 36 dB	PNO: B Gate: C IF Gain Sig Tra	iest Wide )ff : Low :rk: Off	#Avg Type: F Trig: Free Ru	Power (RMS un	L 2 3 4 5 6	Center F 1.91300	Frequency 00000 GHz	Settings
1 Spei Scale	ctrum /Div 10 dB	v		Ref Level 25.00	dBm		Mkr	1 1.911 -23.3	000 GHz 358 dBm	Span 4.00000	0000 MHz	
Log 15.0	Trace 1	Pass								Zer F	o Span ull Span	
5.00										Start Fre 1.91100	eq 00000 GHz	
-15.0	.1									Stop Fre 1.91500	eq 00000 GHz	
-25.0			and a second and a second second		~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	AU	TO TUNE	
-35.0										CF Step 400.000	) kHz	
-55.0										Aut Ma	0 า	
-65.0										Freq Off 0 Hz	set	
Cente #Res	r 1.913000 BW 1.0 MH	GHz Iz		#Video BW 3.0	MHz		Swee	Spar ep ~6.97 ms	n 4.000 MHz s (1001 pts)	X Axis S Loç Lin	cale	
	5		Aug 18, 2021 7:29:10 PM	$\Box$						Signal T (Span Zo	rack om)	

Plot 7-115. Upper Extended Band Edge Plot (NR Band n2 – 15.0MHz - Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @ elecenet	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Spec Swep	trum Analyz ot SA	er 1 🔻	+					Frequency	/ 「器
KEY RL	/SIGHT	nput: RF Coupling: DC Align: Auto/Nc	Input Z: 50 Ω Corr CCorr RF Freq Ref: Int NFE: Off	#Atten: 36 dB (S)	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: P Trig: Free Ru	ower (RMS <mark>123456</mark> n A WWWWW A P N N N N	Center Frequency 1.850000000 GHz	Settings
1 Spe	ectrum P/Div 40 dR	Ŧ		Bof Lovel 25.00	) dBm	Mkr1	1.849 984 GHz	8.0000000 MHz	
Log	Trace -	1 Pass		Rei Level 25.00	, abin		-51.511 0.511	Swept Span Zero Span	
15.0								Full Span	
5.00					- Contraction and the second second	***	all gen to find a new fill all regardeneers from the all a	Start Freq 1.846000000 GHz	
-15.0								Stop Freq 1.854000000 GHz	
-25.0								AUTO TUNE	
-35.0	maganeralisame	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	and the second				CF Step	
-45.0								Auto	
-55.0								Freq Offset	
-65.0								0 Hz X Axis Scale	
Cente #Res	er 1.850000 BW 120 kH	) GHz Hz		#Video BW 43	0 kHz	Swee	Span 8.000 MHz p ~14.0 ms (1001 pts)	Log Lin	
	5		<b>?</b> Aug 18, 20 7:16:35 P	21 M				Signal Track (Span Zoom)	1

Plot 7-116. Lower Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

Spectr Swept	rum Analy : SA	zer 1 🔻	+					Frequency	/ 「影
RL		Input: RF Coupling: DC Align: Auto/No F	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE <sup>-</sup> Off	#Atten: 36 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	er (RMS <mark>1</mark> 23456 A \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Center Frequency 1.847000000 GHz	Settings
1 Spec	ctrum /Div 10 dl	<b>▼</b> 3		Ref Level 25.00	dBm	Mkr1 1	1.849 000 GHz -21.911 dBm	Span 4.00000000 MHz	
Log	Trace	1 Pass		Í				Zero Span	
5.00 -								Start Freq	
-5.00								Stop Freq	
-25.0 -							1	AUTO TUNE	
-35.0	and a second designed a	n						CF Step 400.000 kHz	
-45.0								Auto Man	
-65.0								0 Hz	
Cente #Res	r 1.84700 BW 1.0 M	0 GHz Hz		#Video BW 3.0 I	MHz	Sweep -	Span 4.000 MHz ∼6.97 ms (1001 pts)	Log Lin	
	5		Aug 18, 2021 7:17:33 PM	$\bigcirc \triangle$				Signal Track (Span Zoom)	

Plot 7-117. Lower Extended Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

FCC ID: PY7-95324M	Pocad to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-118. Upper Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

Spectr Swept	rum Analyz : SA	er 1 ү	+					Frequency	, ,₩
REY RL		nput: RF Coupling: DC Jign: Auto/No RI	Input Z: 50 Ω Corr CCorr F Freq Ref: Int (S) NEF: Off	#Atten: 36 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Rur	wer (RMS <mark>1</mark> 23456 AWWWWW APNNNN	Center Frequency 1.913000000 GHz	Settings
1 Spece	rtrum /Div 10 dB	v		Ref Level 25.00	dBm	Mkr1	1.911 000 GHz -19.752 dBm	Span 4.00000000 MHz Swept Span	
Log 15.0	Trace <sup>-</sup>	Pass						Zero Span Full Span	
5.00 -5.00								Start Freq 1.911000000 GHz	
-15.0	1===							Stop Freq 1.915000000 GHz	
-25.0 -35.0	and the second s				an and the second second	······	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	AUTO TUNE CF Step	
-45.0								400.000 kHz Auto Man	
-65.0								Freq Offset 0 Hz	
Cente #Res	r 1.913000 BW 1.0 MH	GHz Iz		#Video BW 3.0 I	MHz	Swee	Span 4.000 MHz p ~6.97 ms (1001 pts)	X Axis Scale Log Lin	
	5		Aug 18, 2021 7:20:11 PM					Signal Track (Span Zoom)	

Plot 7-119. Upper Extended Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @ elecent	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-120. Lower Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

Spect Swept	rum Analyz : SA	er 1 🔻	+									Frequency	- * 崇
KEY RL		nput: RF Coupling: DC Align: Auto/No R	Input Z: 5 Corr CCo F Freq Ref NFE: Off	50 Ω prr : Int (S)	#Atten: 36 dB	PNO: Gate: IF Ga Sig Ti	: Best Wide : Off ain: Low rack: Off	#Avg Type: P Trig: Free Ru	ower (RMS <mark>1</mark> n /	23456 WWWWW PNNNN	Center 1.8470	Frequency 00000 GHz	Settings
1 Spe	ctrum				D-611-05	00 48		Mkr1	1.849	000 GHz	Span _4.0000	0000 MHz	
Log	Trace <sup>1</sup>	1 Pass			Ref Level 25.	UU ABM			-14.0	US UBIII	Sw Ze	/ept Span ro Span	
15.0											F	ull Span	
5.00											Start Fr 1.8450	eq 00000 GHz	
-5.00										1	Stop Fr		
-25.0											1.0490 Al		
-35.0				-terester - terestere	and the second secon						CF Step		
-45.0											400.00	0 kHz to	
-55.0											Ma Freq Of	in fset	
-65.0											0 Hz		
Cente #Res	r 1.847000 BW 1.0 MH	GHz Iz			#Video BW 3	3.0 MHz		Swee	Spar p ~6.97 ms	4.000 MHz (1001 pts)	X Axis S Lo	Scale g	
	5		Aug 18 7:10:1	, 2021 6 PM							Signal T	Frack	

Plot 7-121. Lower Extended Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

FCC ID: PY7-95324M	Poud to be part of @ element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-122. Upper Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

Spect Swept	rum Analyze t SA	er 1 🔻	+									Frequency	- * 崇
KEY RL		put: RF oupling: DC lign: Auto/No R	Input Z: 5 Corr CCo F Freq Ref NFE: Off	50 Ω prr : Int (S)	#Atten: 36 dB	PNO: Gate: IF Ga Sig Ti	Best Wide Off in: Low rack: Off	#Avg Type: P Trig: Free Ru	Power (RMS <mark>1</mark> in #	23456 WWWWW PNNNN	Center F 1.91300	requency 00000 GHz	Settings
1 Spe Scale	ctrum //Div 10 dB	v			Ref Level 25.	00 dBm		Mkr1	1.911 ( -14.1	000 GHz 08 dBm	Span 4.00000	0000 MHz	
Log	Trace 1	Pass			`						Zen	o Span	
5.00											Start Fre	eq 100000 GHz	
-5.00 -15.0	1										Stop Fre 1.91500	q 00000 GHz	
-25.0	And the second s			<b></b>							AU <sup>.</sup>	TO TUNE	
-35.0						1 - Araza - Andre Japan y Ang	the all of the second	teres la seconda de la constance constance	and a second	ىرىل <sub>ىدۇر</sub> ۋە مۇرىيەت يەرەپ يەلەر ۋە ئەر	CF Step 400.000	) kHz	
-55.0											Auto Mar Freg Off	o 1 set	
-65.0											0 Hz X Axis S	cale	
Cente #Res	er 1.913000 BW 1.0 MH	GHz z	Aug 18	. 2021	#Video BW 3	.0 MHz		Swee	Span p ~6.97 ms	4.000 MHz (1001 pts)		rock	
	<b> _)</b>  [C		7:13:0	1 PM 🛛							(Span Zo		

Plot 7-123. Upper Extended Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

FCC ID: PY7-95324M	Proved to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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## 7.5 Peak-Average Ratio

### **Test Overview**

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

### Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

### Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

### Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

### Test Notes

None.

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## LTE Band 25/2 - Ant1







#### Plot 7-125. PAR Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB )

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Plot 7-126. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB )



Plot 7-127. PAR Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB)

FCC ID: PY7-95324M	Poud to be part of @ element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-129. PAR Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB)

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Plot 7-131. PAR Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB)

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Plot 7-133. PAR Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-135. PAR Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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## NR Band n2 – Ant1



Plot 7-136. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-137. PAR Plot (NR Band n2 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: PY7-95324M	Poud to be part of (* element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-138. PAR Plot (NR Band n2 - 20.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-139. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: PY7-95324M	PCTEST Proud to be part of @ elecenet	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-140. PAR Plot (NR Band n2 - 15.0MHz CP-OFDM QPSK - Full RB)



Plot 7-141. PAR Plot (NR Band n2 - 15.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: PY7-95324M	Pocad to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Plot 7-142. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-143. PAR Plot (NR Band n2 - 10.0MHz CP-OFDM QPSK - Full RB)

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Plot 7-144. PAR Plot (NR Band n2 - 10.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-145. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

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Plot 7-146. PAR Plot (NR Band n2 - 5.0MHz CP-OFDM QPSK - Full RB)



Plot 7-147. PAR Plot (NR Band n2 - 5.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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# **GSM/GPRS PCS – Ant1**



Plot 7-148. PAR Plot (GPRS, Ch. 661)



Plot 7-149. PAR Plot (EDGE, Ch. 661)

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# WCDMA PCS – Ant1



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# 7.6 Radiated Power (ERP/EIRP)

### Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally 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

KDB 971168 D01 v03r01 - Section 5.2.1

ANSI/TIA-603-E-2016 - Section 2.2.17

#### 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  $\geq 2 \times \text{span} / \text{RBW}$
- 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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### Test Setup

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



Figure 7-5. Radiated Test Setup >1GHz

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### Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is 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 power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 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.

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
N	QPSK	1860.0	Н	102	190	9.55	1 / 50	10.08	19.63	0.092	33.01	-13.38
Н	QPSK	1882.5	н	100	222	9.83	1 / 50	11.02	20.85	0.122	33.01	-12.16
0	QPSK	1905.0	Н	147	246	10.16	1 / 50	10.76	20.92	0.124	33.01	-12.09
7	16-QAM	1905.0	Н	147	246	10.16	1 / 50	9.90	20.06	0.101	33.01	-12.95
N	QPSK	1857.5	Н	102	190	9.51	1/0	9.91	19.42	0.087	33.01	-13.59
H	QPSK	1882.5	н	100	222	9.83	1 / 37	11.20	21.03	0.127	33.01	-11.98
2 1	QPSK	1907.5	Н	147	246	10.21	1 / 37	10.76	20.96	0.125	33.01	-12.05
	16-QAM	1907.5	Н	147	246	10.21	1 / 37	9.85	20.06	0.101	33.01	-12.95
N	QPSK	1855.0	Н	102	190	9.48	1 / 49	10.09	19.57	0.091	33.01	-13.44
H <b>₩</b>	QPSK	1882.5	Н	100	222	9.83	1/0	11.13	20.96	0.125	33.01	-12.05
0	QPSK	1910.0	н	147	246	10.25	1 / 25	10.69	20.94	0.124	33.01	-12.07
	16-QAM	1910.0	Н	147	246	10.25	1 / 25	9.52	19.78	0.095	33.01	-13.23
N	QPSK	1852.5	Н	102	190	9.44	1 / 24	10.13	19.57	0.091	33.01	-13.44
Ŧ	QPSK	1882.5	Н	100	222	9.83	1 / 24	11.03	20.86	0.122	33.01	-12.15
2	QPSK	1912.5	Н	147	246	10.28	1 / 12	10.57	20.85	0.122	33.01	-12.16
	16-QAM	1882.5	Н	100	222	9.83	1 / 12	10.15	19.98	0.100	33.01	-13.03
N	QPSK	1851.5	Н	102	190	9.43	1 / 14	10.21	19.64	0.092	33.01	-13.37
H	QPSK	1882.5	Н	100	222	9.83	1 / 14	11.02	20.85	0.122	33.01	-12.16
3 1	QPSK	1913.5	Н	147	246	10.29	1/0	10.51	20.79	0.120	33.01	-12.22
	16-QAM	1913.5	Н	147	246	10.29	1 / 14	9.80	20.08	0.102	33.01	-12.93
우	QPSK	1850.7	Н	102	190	9.42	1/3	10.10	19.52	0.090	33.01	-13.49
Ξ	QPSK	1882.5	Н	100	222	9.83	1/5	11.01	20.85	0.122	33.01	-12.16
4.	QPSK	1914.3	Н	147	246	10.30	1/3	10.42	20.72	0.118	33.01	-12.29
-	16-QAM	1882.5	Н	100	222	9.83	1/5	10.01	19.84	0.096	33.01	-13.17
15 MHz	Opposite Pol.	1905.0	V	344	58	9.83	1 / 37	10.53	20.36	0.109	33.01	-12.65

Table 7-2. EIRP Data (LTE Band 25/2)

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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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	1860.0	Н	154	22	9.68	1 / 53	4.43	14.11	0.026	33.01	-18.90
	π/2 BPSK	1880.0	Н	155	25	9.96	1 / 26	4.22	14.18	0.026	33.01	-18.83
	π/2 BPSK	1900.0	Н	156	29	10.16	1 / 53	5.21	15.37	0.034	33.01	-17.64
20 MHz	QPSK	1860.0	Н	154	22	9.68	1 / 53	4.31	13.99	0.025	33.01	-19.02
	QPSK	1880.0	Н	155	25	9.96	1 / 26	4.21	14.17	0.026	33.01	-18.84
	QPSK	1900.0	Н	156	29	10.16	1 / 53	5.11	15.27	0.034	33.01	-17.74
	16-QAM	1900.0	Н	156	29	10.16	1 / 53	4.63	14.79	0.030	33.01	-18.22
	π/2 BPSK	1857.5	Н	154	22	9.66	1 / 20	4.48	14.14	0.026	33.01	-18.87
	π/2 BPSK	1880.0	Н	155	25	9.96	1 / 58	4.21	14.16	0.026	33.01	-18.85
	π/2 BPSK	1902.5	Н	156	29	10.17	1 / 20	5.28	15.45	0.035	33.01	-17.56
15 MHz	QPSK	1857.5	Н	154	22	9.66	1 / 20	4.05	13.71	0.024	33.01	-19.30
	QPSK	1880.0	Н	155	25	9.96	1 / 58	4.25	14.21	0.026	33.01	-18.80
	QPSK	1902.5	Н	156	29	10.17	1 / 20	5.18	15.35	0.034	33.01	-17.66
	16-QAM	1902.5	Н	156	29	10.17	1 / 20	4.85	15.02	0.032	33.01	-17.99
	π/2 BPSK	1855.0	Н	154	22	9.64	1 / 13	4.27	13.91	0.025	33.01	-19.10
	π/2 BPSK	1880.0	Н	155	25	9.96	1 / 13	4.53	14.49	0.028	33.01	-18.52
	π/2 BPSK	1905.0	Н	156	29	10.18	1 / 26	4.95	15.13	0.033	33.01	-17.88
10 MHz	QPSK	1855.0	Н	154	22	9.64	1 / 26	4.21	13.85	0.024	33.01	-19.16
	QPSK	1880.0	Н	155	25	9.96	1 / 13	3.99	13.95	0.025	33.01	-19.06
	QPSK	1905.0	Н	156	29	10.18	1 / 26	4.96	15.14	0.033	33.01	-17.87
	16-QAM	1905.0	Н	156	29	10.18	1 / 26	4.74	14.92	0.031	33.01	-18.09
	π/2 BPSK	1852.5	Н	154	22	9.63	1 / 18	4.39	14.01	0.025	33.01	-19.00
	π/2 BPSK	1880.0	Н	155	25	9.96	1 / 12	4.42	14.38	0.027	33.01	-18.63
	π/2 BPSK	1907.5	Н	156	29	10.19	1/6	5.04	15.23	0.033	33.01	-17.78
5 MHz	QPSK	1852.5	Н	154	22	9.63	1 / 18	3.93	13.55	0.023	33.01	-19.46
	QPSK	1880.0	Н	155	25	9.96	1 / 12	4.17	14.13	0.026	33.01	-18.88
	QPSK	1907.5	Н	156	29	10.19	1 / 18	4.73	14.92	0.031	33.01	-18.09
	16-QAM	1907.5	Н	156	29	10.19	1 / 18	4.40	14.59	0.029	33.01	-18.42
20 MHz	QPSK (CP-OFDM)	1900.0	H	156	29	9.96	1 / 53	4.11	14.07	0.026	33.01	-18.94
20 10112	QPSK (Opposite Pol.)	1900.0	V	222	314	9.96	1 / 53	2.55	12.51	0.018	33.01           33.01	-20.50

Table 7-3. EIRP Data (NR Band n2)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	Н	133	234	15.09	9.63	24.72	0.296	33.01	-8.29
1880.00	GPRS1900	Н	132	156	15.70	9.96	25.66	0.368	33.01	-7.35
1909.80	GPRS1900	Н	124	190	15.26	10.19	25.45	0.351	33.01	-7.56
1880.00	GPRS1900	V	122	185	14.18	9.96	24.14	0.259	33.01	-8.87
1880.00	EDGE1900	Н	132	156	12.80	9.96	22.76	0.189	33.01	-10.25

### Table 7-4. EIRP Data (GPRS PCS)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	Н	139	170	10.77	9.63	20.40	0.110	33.01	-12.62
1880.00	WCDMA1900	Н	130	166	10.99	9.96	20.95	0.124	33.01	-12.06
1907.60	WCDMA1900	Н	122	185	12.14	10.19	22.33	0.171	33.01	-10.68
1907.60	WCDMA1900	V	127	264	8.65	9.96	18.61	0.073	33.01	-14.40

Table 7-5. EIRP Data (WCDMA PCS)

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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 KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole 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**

KDB 971168 D01 v03r01 - Section 5.8

### **Test Settings**

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW  $\ge$  3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points > 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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### Test Setup

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



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

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### Test Notes

- Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
   a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
   b) EIRP (dBm) = E(dBµV/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 is 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 power is 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, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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# LTE Band 25/2





Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 50

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]
3720.00	Н	-	-	-73.01	2.14	36.13	-59.12	-13.00	-46.12
5580.00	Н	-	-	-72.51	6.12	40.61	-54.65	-13.00	-41.65
7440.00	Н	-	-	-74.44	8.74	41.30	-53.96	-13.00	-40.96

Table 7-6. Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

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]
3765.00	Н	-	-	-72.83	3.48	37.65	-57.61	-13.00	-44.61
5647.50	Н	-	-	-72.40	5.57	40.17	-55.09	-13.00	-42.09
7530.00	Н	-	-	-74.75	9.04	41.29	-53.96	-13.00	-40.96

Table 7-7. Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

FCC ID: PY7-95324M	Proved to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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Bandwidth (MHz):		20							
Frequency (MHz):		1905							
RB / Offset:		1 / 50							
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]
3810.00	Н	-	-	-72.17	2.66	37.49	-57.76	-13.00	-44.76
5715.00	Н	-	-	-73.25	5.75	39.50	-55.76	-13.00	-42.76
7620.00	Н	-	-	-74.44	9.04	41.60	-53.66	-13.00	-40.66

Table 7-8. Radiated Spurious Data (LTE Band 25/2 – High Channel)

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# NR Band n2



Plot 7-152. Radiated Spurious Plot (NR Band n2)

Bandwidth (MHz):	20	
Frequency (MHz):	1860	
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]
3720.00	Н	-	-	-72.04	8.11	43.07	-52.19	-13.00	-39.19
5580.00	Н	375	30	-73.36	11.71	45.35	-49.91	-13.00	-36.91
7440.00	Н	399	51	-73.22	15.81	49.59	-45.67	-13.00	-32.67
9300.00	Н	-	-	-75.01	19.05	51.04	-44.21	-13.00	-31.21

Table 7-9. Radiated Spurious Data (NR Band n2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1880
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]
3760.00	Н	-	-	-71.98	7.74	42.76	-52.49	-13.00	-39.49
5640.00	Н	390	28	-73.15	10.56	44.41	-50.85	-13.00	-37.85
7520.00	Н	391	57	-73.15	15.71	49.56	-45.70	-13.00	-32.70
9400.00	Н	-	-	-74.54	18.38	50.84	-44.42	-13.00	-31.42

Table 7-10. Radiated Spurious Data (NR Band n2 – Mid Channel)

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Bandwidth (MHz):	20
Frequency (MHz):	1900
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]
3800.00	Н	-	-	-71.74	8.27	43.53	-51.73	-13.00	-38.73
5700.00	Н	374	14	-73.23	10.86	44.63	-50.63	-13.00	-37.63
7600.00	Н	377	55	-75.01	16.14	48.13	-47.13	-13.00	-34.13
9500.00	Н	-	-	-74.44	19.24	51.80	-43.46	-13.00	-30.46

Table 7-11. Radiated Spurious Data (NR Band n2 – High Channel)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager	
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## NR Band n2 – B13





Bandwidth (MHz):	20 / 10
Frequency (MHz):	1880 & 782
RB / Offset:	1 / 53 & 1 / 25
Mode:	EN-DC
Anchor Band:	LTE Band 13A

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]
1414.0	Н	-	-	-67.75	8.44	47.69	-47.57	-13.00	-34.57
2512.0	Н	-	-	-68.99	13.43	51.44	-43.82	-13.00	-30.82
2978.0	Н	169	323	-70.26	14.40	51.14	-44.12	-13.00	-31.12
3610.0	Н	-	-	-70.62	15.38	51.76	-43.50	-13.00	-30.50
4076.0	Н	-	-	-72.01	15.40	50.39	-44.87	-13.00	-31.87
5174.0	Н	-	-	-70.44	17.51	54.07	-41.18	-13.00	-28.18

Table 7-12. Radiated Spurious Data (NR Band n2 – B13)

FCC ID: PY7-95324M	PCTEST Proud to be part of @ element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager
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## **GSM/GPRS PCS**



### Plot 7-154. Radiated Spurious Plot (GPRS PCS)

Mode:	GPRS 1 Tx Slot		
Channel:	512		
Frequency (MHz):	1850.2		

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]
3700.40	Н	-	-	-69.49	5.26	42.77	-52.48	-13.00	-39.48
5550.60	Н	107	90	-69.46	9.03	46.57	-48.69	-13.00	-35.69
7400.80	Н	-	-	-70.00	12.74	49.74	-45.52	-13.00	-32.52
9251.00	Н	-	-	-72.45	14.05	48.60	-46.65	-13.00	-33.65

Table 7-13. Radiated Spurious Data (GPRS PCS – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880

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]
3760.00	V	124	281	-69.35	6.37	44.02	-51.24	-13.00	-38.24
5640.00	V	103	243	-68.59	8.67	47.08	-48.17	-13.00	-35.17
7520.00	V	114	238	-70.83	12.54	48.71	-46.55	-13.00	-33.55
9400.00	V	102	350	-67.40	14.93	54.53	-40.73	-13.00	-27.73

Table 7-14. Radiated Spurious Data (GPRS PCS - Mid Channel)

FCC ID: PY7-95324M	Proved to be part of the element	PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager	
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Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

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]
3819.60	V	101	348	-69.24	5.77	43.53	-51.72	-13.00	-38.72
5729.40	V	310	307	-66.74	8.95	49.21	-46.04	-13.00	-33.04
7639.20	V	115	217	-69.21	12.86	50.65	-44.60	-13.00	-31.60
9549.00	V	128	346	-65.20	14.43	56.23	-39.03	-13.00	-26.03
11458.80	V	-	-	-73.56	18.32	51.76	-43.50	-13.00	-30.50

Table 7-15. Radiated Spurious Data (GPRS PCS – High Channel)

FCC ID: PY7-95324M		PART 24 MEASUREMENT REPORT	SONY	Approved by: Technical Manager	
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