CONDUCTED OUTPUT POWER FOR HANDSET

The conducted output power was re-measured with a E4446A which has much less measurement uncertainty. The accuracy of the E4446A is +/-0.6dB; while 8565EC is +/-1.9dB. For the transmission slot timing, it was also re-measured in expanded mode to get most accurate readings.

Following is specification comparison tables between E4446A and 8565EC:

Performance * ** *** *** *** *** *** *** *** **** * ***** * ***** * ***** *	Overview	ESA-L Series Basic spectrum analysis	8591C Cable TV analyzer	ESA-E Series Mid-performance platform	856x EC Series High performance portable	PSA Series Advanced high performance platform
Price 3 45 45 453 454 Application specific solutions * * * * * * * * * * * * Application specific solutions * * * * * * * * * * * * Specification summary Standard Standard Standard Standard Standard Specification summary 30 Hz to 25.5 GHz 30 Hz to 325 GHz ^{1.2} 30 Hz to 325 GHz ^{1.2} 30 Hz to 325 GHz ^{1.2} Future Specification summary Specification summary Specification summary 50 ms 1 ms 1 ms Specification summary Specification summary 20 us 2 5 ms ¹ 50 ms 1 ms Specification summary Specification summary 2 0 us 2 5 ms ¹ 50 ms 1 ms Local measurement rate over GHZ 2 30 second 7 / second 2 40 / second 10 / second 2 50 / second Phase noise at 1 GHz (10 HHz offset) > 90 dBc/Hz -90 dBc/Hz -113 dBc/Hz -114 dBc/Hz Phase noise at 1 GHz (10 HHz offset) -90 dBc/Hz -90 dBc/Hz -113 dBc/Hz -114 dBc/Hz Phase noise at 1 GHz (10 HHz offset) -90 dBc/Hz		*	**	***	****	****
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Frequency range 9 Hz to 26.5 GHz 9 kHz to 1.8 GHz 30 Hz to 26.5 GHz 30 Hz to 50 GHz 31 Hz to 50 GHz Specification summary Specification summary 30 Hz to 325 GHz 30 Hz to 325 GHz 71 Hz 30 Hz to 50 GHz Future Specification summary Specification summary 30 Hz to 325 GHz 30 Hz to 325 GHz 71 Hz 71 Hz 71 Hz Specification summary 4 ms 20 ms 1 ms 50 ms 1 ms 1 ms Coal measurement rate "1" 2 82 //second 9 //second 2 40 //second 10 //second 2 50 //second 2 50 //second Brenote measurement rate "1" 2 90 //second 7 //second 2 40 //second 7 //second 2 60 //sec					<u>.</u>	
30 Ht to 325 GHt 12 30 Ht to 325 GHt 12 Future Specification summary Colspan="2">Specification summary Colspan= 20 µs 20 µs 25 ms 1 µs Colspan= 20 µs 20 µs 2 40/second 2 #Specification summary Colspan= 20 µs 20 µs 2 #Specification summary Warm-up time 5 minutes 5 minutes 30 minutes Phase noise of 1 Gbt (10 Mt) offset) -133 dBc/Hz 1 -114 dBc/Hz -114 dBc/Hz Phase noise of 1 Gbt (10 Mt) offset) -133 dBc/Hz 1 <						
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Warm-up time 5 minutes 30 minutes 5 minutes 30 minutes Phase noise / stability Phase noise / stability -90 dBc/Hz -113 dBc/Hz -114 dBc/Hz Phase noise at 1 GHz (10 kHz offset) -90 dBc/Hz -133 dBc/Hz ¹ -132 dBc/Hz ¹⁰ -144 dBc/Hz Phase noise at 1 GHz (10 MHz offset) -137 dBc/Hz ¹ -132 dBc/Hz ¹⁰ -144 dBc/Hz Phase noise at 1 GHz (10 MHz offset) -137 dBc/Hz ¹¹ -151 (-157 ¹¹) dBc/Hz -151 (-157 ¹¹) dBc/Hz Varianum thick-order						
Phase noise at 1 GHz (10 kHz offset) -90 dBc/Hz -90 dBc/Hz -113 dBc/Hz -114 dBc/Hz Phase noise at 1 GHz (10 MHz offset) -133 dBc/Hz -133 dBc/Hz -132 dBc/Hz -114 dBc/Hz Phase noise at 1 GHz (10 MHz offset) -133 dBc/Hz -133 dBc/Hz -132 dBc/Hz -114 dBc/Hz Dynamic range Maximum third-order -137 dBc/Hz -137 dBc/Hz $-151 (-157^{11}) \text{ dBc/H}$ Maximum second-order -90 dBm -5 dBm 08 dB 108 dB 110 096 dB 103 dB Maximum second-order -90 dBm -5 dBm 0 dBm -5 dBm $430 dB$			30 minutes		5 minutes	30 minutes
Phase noise at 1 GHz (1 MHz offset) -133 dBc/Hz^{10} -132 dBc/Hz^{10} -144 dBc/Hz Phase noise at 1 GHz (10 MHz offset) -137 dBc/Hz^{11} -132 dBc/Hz^{10} $-161 (-157^{11}) \text{ dBc/Hz}$ Dynamic range Maximum third-order -137 dBc/Hz^{11} -132 dBc/Hz^{11} $-151 (-157^{11}) \text{ dBc/Hz}$ Maximum scond-order $dynamic range at 1 \text{ GHz}$ 83 dB 88 dB $108 \text{ dB} 1.10$ 108 dB 113 dB Maximum scond-order $dynamic range at 1 \text{ GHz}$ 78.5 dB 78.5 dB $97.5 \text{ dB} 1.10$ 95 dB 103 dB 1 dB gain compression 5 0 dBm -5 dBm 0 dBm $+30 \text{ dBm}$ 430 dBm 430 dBm 430 dBm $10 \text{ to } 70 \text{ dB}$ $10 \text{ to } 70 \text{ to } 70 to$	Phase noise/ stability					
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Phase noise at 1 GHz (10 MHz offset) -137 dBc/Hz^1 $-151 (-157^{11}) \text{ dBc/Hz}^1$ Dynamic range Maximum third-order		-90 abc/ nz	-90 0DC/H2			
Dynamic range Maximum third-order dynamic range at 1 GHz 83 dB 88 dB 108 dB 1.10 108 dB 113 dB Maximum second-order dynamic range at 1 GHz 78.5 dB 78.5 dB 97.5 dB 103 dB IdB gain compression 5 0 dBm -5 dBm 0 dBm -5 dBm +30 dBm Maximum safe input + 30 dBm - 30 dBm - 30 dBm - 310 dB - 310 dB <th< td=""><td></td><td></td><td></td><td></td><td>-132 dbg/h210</td><td></td></th<>					-132 dbg/h210	
Maximum thid-order Maximum thid-order 108 dB 108 dB 110 108 dB 113 dB Maximum second-order dynamic range at 1 GHz 78.5 dB 78.5 dB 97.5 dB 108 dB 109 dB 103 dB 1 dB gain compression 5 0 dBm -5 dBm 0 dBm -5 dBm +30 dBm				-137 dbc/Hz		=151 (=157 ···) dBC/Hz
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Maximum second-order dynamic range at 1 GHz 78.5 dB 78.5 dB 97.5 dB 100 95 dB 103 dB 1 dB gain compression 5 0 dBm -5 dBm 0 dBm -5 dBm +30 dBm +10 dB +10 dB +10 dB		83 dB	88 dB	108 dB 1, 10	108 dB	113 dB
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1 dB gain compression 5 0 dBm -5 dBm 0 dBm -5 dBm +30 dBm +30 dBm Maximum safe input +30 dBm +30 dBm +30 dBm +30 dBm +30 dBm +30 dBm Attenuator range and step size 0 to 65 dB 3 0 to 70 dB 0 to 65 dB 3 0 to 70 dB 4 0 to 70 dB Displayed average noise level (DANL) at 1 GHz -117 dBm -98 dBmV 1 -150 dBm ^{1,10} /-166 dBm ^{6,10} 151 dBm 1 -154 dBm / -168 dBm Calibrated display range (log amplifier) 85 dB 70 dB 85 dB to 120 dB 1 100 dB 7 > 110 dB Accuracy (9 kHz to 3 GHz) ± 1.1 dB ± 2.1 dB ± 1.0 dB ± 1.9 dB ± 0.62 dB (± 0.24 dB 1 Span accuracy ± 1.0 % ± 2% to ± 3% ± 0.5 % ± 103 Hz ± 100 Hz Resolution BBW range 1 kHz to 5 MHz 30 Hz ¹ to 3 MHz 1 Hz ¹ to 5 MHz 1 Hz to 2 MHz 1 Hz to 8 MHz Best selectivity 15:1 10:1 5:1 5:1 4.1:1 BBW range 1 kHz to 5 MHz 30 Hz ¹ to 3 MHz 1 Hz ¹ to 5 MHz 1 Hz to 8 MHz Best selectivity 15:1 10:1 5:1 <td></td> <td>78.5 dB</td> <td>78.5 dB</td> <td>97,5 dB 1, 10</td> <td>95 dB</td> <td>103 dB</td>		78.5 dB	78.5 dB	97,5 dB 1, 10	95 dB	103 dB
Maximum safe input + 30 dBm + 30 dBm <td></td> <td>0 dBm</td> <td>–5 dBm</td> <td>0 dBm</td> <td>-5 dBm</td> <td>+3 dBm</td>		0 dBm	–5 dBm	0 dBm	-5 dBm	+3 dBm
Attenuator range and step size 0 to 65 dB ³ 0 to 70 dB 0 to 65 dB ³ 0 to 70 dB 0 to 70 dB 0 to 70 dB Displayed average noise level (DANL) at 1 GHz -117 dBm -98 dBmV ¹ -150 dBm ^{1,10} /-166 dBm ^{6,10} 151 dBm ¹ -154 dBm / -168 dBm Calibrated display range (log amplifier) 85 dB 70 dB 85 dB to 120 dB ¹ 100 dB ² > 110 dB Accuracy 0 98 dBmV ¹ -150 dB m ^{1,10} /-166 dBm ^{6,10} 151 dBm ¹ -154 dBm / -168 dBm Overall amplitude accuracy (9 kHz to 3 GHz) ± 1.1 dB ± 2.1 dB ± 1.0 dB ± 1.9 dB ± 0.62 dB (± 0.24 dB ¹) Span accuracy act 1 GHz ⁹ ± 2001 Hz ± 210 Hz ± 0.15 % ± 100 Hz ± 100 Hz Resolution Best selectivity 15:1 10:1 5:1 5:1 4.1:1 Best selectivity 15:1 10:1 5:1 5:1 4.1:1 Resolution 2 13:0 Hz ≤ 30 Hz ¹ ≤ 2 Hz ¹ < 1 Hz < 1 Hz to 8 MHz Best selectivity 15:1 0.0 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 1, 4.1:1 <t< td=""><td></td><td>+30 dBm</td><td>+30 dBm</td><td>+30 dBm</td><td>+30 dBm</td><td>+30 dBm</td></t<>		+30 dBm	+30 dBm	+30 dBm	+30 dBm	+30 dBm
in 5 dB steps in 10 dB steps in 5 dB steps in 10 dB steps in 2 dB steps Displayed average noise level (DANL) at 1 GHz -117 dBm -98 dBmV ¹ -150 dBm ^{1.10} /-166 dBm ^{6.10} 151 dBm ¹ -154 dBm / -168 dBm Calibrated display range (log amplifier) 85 dB 70 dB 85 dB to 120 dB ¹ 100 dB ² > 110 dB Accuracy 0 98 dBx/2 ± 1.0 dB ± 1.9 dB ± 0.62 dB (± 0.24 dB ¹) Span accuracy ± 1.1 dB ± 2.1 dB ± 1.0 dB ± 1.9 dB ± 0.62 dB (± 0.24 dB ¹) Span accuracy ± 1.0 % ± 2% to ± 3% ± 0.5 % ± 1% to ± 5% ± 0.2% Frequency accuracy at 1 GHz ⁹ ± 2001 Hz ± 210 Hz ± 101 Hz ± 103 Hz ± 100 Hz Resolution 8 8 1 Hz ¹ to 5 MHz 1 Hz to 8 MHz 1 Hz to 8 MHz Best selectivity 15:1 10:1 5:1 5:1 4.1:1 REW range 1 kHz to 5 MHz 30 Hz ¹ to 3 MHz 1 Hz ¹ to 5 MHz 1 Hz to 8 MHz Best selectivity 15:1 10:1 5:1 4.1:1						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Automation range and step size					
Calibrated display range (log amplifier) 85 dB 70 dB 85 dB to 120 dB ' 100 dB '' > 110 dB Accuracy Overall amplitude accuracy (9 kHz to 3 GHz) $\pm 1.1 dB$ $\pm 2.1 dB$ $\pm 1.0 dB$ $\pm 1.9 dB$ $\pm 0.62 dB$ ($\pm 0.24 dB^1$ Span accuracy $\pm 1.0 \%$ $\pm 2\% to \pm 3\%$ $\pm 0.5 \%$ $\pm 103 Hz$ $\pm 0.62 dB$ ($\pm 0.24 dB^1$ Span accuracy $\pm 1.0 \%$ $\pm 2\% to \pm 3\%$ $\pm 0.5 \%$ $\pm 103 Hz$ $\pm 0.62 dB$ ($\pm 0.24 dB^1$ Span accuracy $\pm 1.0 \%$ $\pm 22\% to \pm 3\%$ $\pm 0.5 \%$ $\pm 103 Hz$ $\pm 0.62 dB$ ($\pm 0.24 dB^1$ Span accuracy $\pm 1.0 \%$ $\pm 201 Hz$ $\pm 210 Hz$ $\pm 10.5 \%$ $\pm 10.2\%$ $\pm 0.62 dB$ ($\pm 0.24 dB^1$ Span accuracy $\pm 1.0 \%$ $\pm 200 Hz$ $\pm 200 Hz$ $\pm 210 Hz$ $\pm 10.5 \%$ $\pm 0.52\%$ $\pm 10.2\%$ Frequency accuracy at 1 GHz % $\pm 2001 Hz$ $\pm 210 Hz$ $\pm 101 Hz$ $\pm 100 Hz$ $\pm 100 Hz$ Resolution Best selectivity 15:1 10:1 5:1 4.1:1 Best selectivity 15:1 10:1 5:1 4.1:1 10\% steps ^8 Resi		•		·		
Accuracy (9 kHz to 3 GHz) $\pm 1.1 \text{ dB}$ $\pm 2.1 \text{ dB}$ $\pm 1.0 \text{ dB}$ $\pm 1.9 \text{ dB}$ $\pm 0.62 \text{ dB} (\pm 0.24 \text{ dB}^3)$ Span accuracy $\pm 1.0 \text{ dB}$ $\pm 1.0 \text{ dB}$ $\pm 1.9 \text{ dB}$ $\pm 0.62 \text{ dB} (\pm 0.24 \text{ dB}^3)$ Frequency accuracy at 1 GHz ⁹ $\pm 2001 \text{ Hz}$ $\pm 270 \text{ Hz}$ $\pm 101 \text{ Hz}$ $\pm 103 \text{ Hz}$ $\pm 100 \text{ Hz}$ Resolution RBW range 1 kHz to 5 MHz 30 Hz ¹ to 3 MHz 1 Hz ¹ to 5 MHz 1 Hz to 2 MHz 1 Hz to 8 MHz Best selectivity 15:1 10:1 5:1 4.1:1 BBW step size 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 Residual FM $\leq 150 \text{ Hz}$ $\leq 30 \text{ Hz}^1$ $\leq 2 \text{ Hz}^1$ $< 1 \text{ Hz}$ $< 1 \text{ Hz}$ EMI resolution bandwidth 9 kHz & 120 kHz 200 Hz ¹ , 9 & 120 kHz 200 Hz ¹ , 9 & 120 kHz 10 MHz^{11}						
		80 G8	70 dB	85 dB to 120 dB	100 dB	> 110 dB
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	•					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		+ 1 1 dB	+ 21 dB	+ 1.0 dB	+ 1.9 dB	+ 0.62 dB (+0.24 dB12)
Frequency accuracy at 1 GHz ⁹ ± 2001 Hz ± 210 Hz ± 101 Hz ± 103 Hz ± 100 Hz Resolution RBW range 1 kHz to 5 MHz 30 Hz ¹ to 3 MHz 1 Hz ¹ to 5 MHz 1 Hz to 2 MHz 1 Hz to 8 MHz Best selectivity 15:1 10:1 5:1 5:1 4.1:1 BBW step size 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 10% steps 8 Residual FM ≤ 150 Hz ≤ 30 Hz ¹ ≤ 2 Hz ¹ < 1 Hz < 1 Hz EMI resolution bandwidths 9 kHz & 120 kHz 200 Hz ¹ , 9 & 120 kHz 200 Hz ¹ , 9 & 120 kHz 10 MHz ¹¹						
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Best selectivity 15:1 10:1 5:1 5:1 4.1:1 BBW step size 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 10% steps 8 Residual FM ≤ 150 Hz ≤ 30 Hz ¹ ≤ 2 Hz ¹ < 1 Hz						
BBW step size 1, 3, 10 1, 3, 10 1, 3, 10 1, 3, 10 10% steps 8 Residual FM ≤ 150 Hz ≤ 30 Hz ¹ ≤ 2 Hz ¹ < 1 Hz	RBW range	1 kHz to 5 MHz	30 Hz ¹ to 3 MHz	1 Hz ¹ to 5 MHz	1 Hz to 2 MHz	1 Hz to 8 MHz
Residual FM ≤ 150 Hz ≤ 30 Hz ¹ ≤ 2 Hz ¹ < 1 Hz < 1 Hz EMI resolution bandwidths 9 kHz & 120 kHz 200 Hz ¹ , 9 & 120 kHz 200 Hz ¹ , 9 & 120 kHz 10 MHz ¹¹ Information bandwidth 10 MHz ¹¹ 10 MHz ¹¹ 10 MHz ¹¹ 10 MHz ¹¹	Best selectivity	15:1	10:1	5:1	5:1	4.1:1
Residual FM ≤ 150 Hz ≤ 30 Hz ¹ ≤ 2 Hz ¹ < 1 Hz < 1 Hz EMI resolution bandwidths 9 kHz & 120 kHz 200 Hz ¹ , 9 & 120 kHz 200 Hz ¹ , 9 & 120 kHz 10 MHz ¹¹ Information bandwidth 10 MHz ¹¹ 10 MHz ¹¹ 10 MHz ¹¹ 10 MHz ¹¹	RBW step size	1, 3, 10	1, 3, 10	1, 3, 10	1, 3, 10	10% steps ⁸
EMI resolution bandwidths 9 kHz & 120 kHz 200 Hz ¹ , 9 & 120 kHz 200 Hz ¹ , 9 & 120 kHz 10 MHz ¹¹ Information bandwidth 10 MHz ¹¹ 10 MHz ¹	Residual FM	≤ 150 Hz	≤ 30 Hz ¹	≤2 Hz ¹	< 1 Hz	
Information bandwidth 10 MHz ¹¹	EMI resolution bandwidths	9 kHz & 120 kHz		200 Hz ¹ , 9 & 120 kHz		
						10 MHz ¹¹
	Maximum IF bandwidth			> 30 MHz11,14		> 30 MHz11,13

Test Equipment

Manufacturer	Description	Model No.	Serial No.	Calibration Date
Agilent	Spectrum Analyzer	E4446A	US44300386	2004-11-10

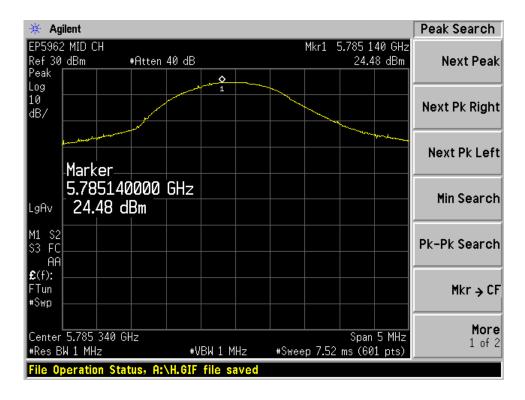
Measurement Result for Handset:

Channel	Frequency	Max Peak Output Power		Limit	Result
	MHz	(dBm)	(mW)	(mW)	
Low	5744.75	24.65	291.74	1000	Pass
Mid	5785.14	24.48	280.54	1000	Pass
High	5825.83	24.71	295.80	1000	Pass

Low Channel



Mid. Channel



High Channel

