

10.4 MEASUREMENT RESULTS

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 36.99dBm(5W)
Analog +Vioce	12.5 kHz	Bottom(136.025MHz)	36.20
		Middle(151.850MHz)	35.93
		Middle(155.025MHz)	36.32
		Middle(161.610MHz)	36.28
		Top (173.975MHz)	36.38
Digital +Vioce	12.5 kHz	Bottom(136.025MHz)	36.14
		Middle(151.850MHz)	35.87
		Middle(155.025MHz)	36.09
		Middle(161.610MHz)	36.15
		Top (173.975MHz)	36.16
Digital+ Data	12.5 kHz	Bottom(136.025MHz)	35.78
		Middle(151.850MHz)	35.62
		Middle(155.025MHz)	35.81
		Middle(161.610MHz)	35.79
		Top (173.975MHz)	35.77

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Radiated Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 36.99dBm(5W)
Analog +Vioce	12.5 kHz	Bottom(136.025MHz)	35.63
		Middle(151.850MHz)	35.34
		Middle(155.025MHz)	35.71
		Middle(161.610MHz)	35.94
		Top (173.975MHz)	35.78
Digital +Vioce	12.5 kHz	Bottom(136.025MHz)	35.50
		Middle(151.850MHz)	35.31
		Middle(155.025MHz)	35.45
		Middle(161.610MHz)	35.57
		Top (173.975MHz)	35.53
Digital+ Data	12.5 kHz	Bottom(136.025MHz)	35.22
		Middle(151.850MHz)	35.05
		Middle(155.025MHz)	35.24
		Middle(161.610MHz)	35.20
		Top (173.975MHz)	35.17

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Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 43.98dBm(25W)
Analog +Vioce	12.5 kHz	Bottom(136.025MHz)	43.53
		Middle(151.850MHz)	43.63
		Middle(155.025MHz)	43.59
		Middle(161.610MHz)	43.51
		Top (173.975MHz)	43.67
Digital +Vioce	12.5 kHz	Bottom(136.025MHz)	43.41
		Middle(151.850MHz)	43.25
		Middle(155.025MHz)	43.38
		Middle(161.610MHz)	43.40
		Top (173.975MHz)	43.58
Digital+ Data	12.5 kHz	Bottom(136.025MHz)	42.98
		Middle(151.850MHz)	43.06
		Middle(155.025MHz)	43.11
		Middle(161.610MHz)	43.09
		Top (173.975MHz)	43.15

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Radiated Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 43.98dBm(25W)
Analog +Vioce	12.5 kHz	Bottom(136.025MHz)	42.95
		Middle(151.850MHz)	43.07
		Middle(155.025MHz)	43.01
		Middle(161.610MHz)	42.94
		Top (173.975MHz)	43.05
Digital +Vioce	12.5 kHz	Bottom(136.025MHz)	42.83
		Middle(151.850MHz)	42.69
		Middle(155.025MHz)	42.80
		Middle(161.610MHz)	42.82
		Top (173.975MHz)	42.99
Digital+ Data	12.5 kHz	Bottom(136.025MHz)	42.41
		Middle(151.850MHz)	42.52
		Middle(155.025MHz)	42.50
		Middle(161.610MHz)	42.45
		Top (173.975MHz)	42.57

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Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 47.40dBm(55W)
Analog +Vioce	12.5 kHz	Bottom(136.025MHz)	47.08
		Middle(151.850MHz)	47.14
		Middle(155.025MHz)	47.05
		Middle(161.610MHz)	47.11
		Top (173.975MHz)	47.12
Digital +Vioce	12.5 kHz	Bottom(136.025MHz)	47.00
		Middle(151.850MHz)	47.03
		Middle(155.025MHz)	46.89
		Middle(161.610MHz)	46.97
		Top (173.975MHz)	46.95
Digital+ Data	12.5 kHz	Bottom(136.025MHz)	46.85
		Middle(151.850MHz)	46.81
		Middle(155.025MHz)	46.79
		Middle(161.610MHz)	46.83
		Top (173.975MHz)	46.78

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Radiated Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 47.40dBm(55W)
Analog +Vioce	12.5 kHz	Bottom(136.025MHz)	46.51
		Middle(151.850MHz)	46.52
		Middle(155.025MHz)	46.47
		Middle(161.610MHz)	46.50
		Top (173.975MHz)	46.49
Digital +Vioce	12.5 kHz	Bottom(136.025MHz)	46.41
		Middle(151.850MHz)	46.45
		Middle(155.025MHz)	46.39
		Middle(161.610MHz)	46.37
		Top (173.975MHz)	46.35
Digital+ Data	12.5 kHz	Bottom(136.025MHz)	46.28
		Middle(151.850MHz)	46.23
		Middle(155.025MHz)	46.24
		Middle(161.610MHz)	46.27
		Top (173.975MHz)	46.22

Note: Calculation Formula: $CP = R + A + L$

(1) CP: The final Conducted Power

(2) R : The reading value from spectrum analyzer

(3) A : The attenuation value of the used attenuator

(4) L : The loss of all connection cables

(5) Measurement Result=Peak Power(Max)

(6) All polarities of radiated power have been evaluated, and only the worst vertical polarity data is recorded in the report

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11. SPURIOUS EMISSION ON ANTENNA PORT

11.1 PROVISIONS APPLICABLE

Please refer to FCC 47 CFR 2.1051, 2.1057, 22.359 & 90.210 for specification details.
Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 22.359	At least $43 + 10 \log (P)$ dB
§ 90.210	At least $50 + 10 \log (P)$ dB

$$50 + 10 \log (P_{\text{watts}})$$

Note: In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) = EL-50-10log10 (TP)

EL is the emission level of the Output Power expressed in dBm,

In this application, the EL is P(dBm)

$$\text{Limit (dBm)} = P(\text{dBm}) - 50 - 10 \log(P_{\text{watts}}) = -20 \text{ dBm}$$
$$43 + 10 \log (P_{\text{watts}})$$

Calculation: Limit (dBm) = EL-43-10log10 (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,

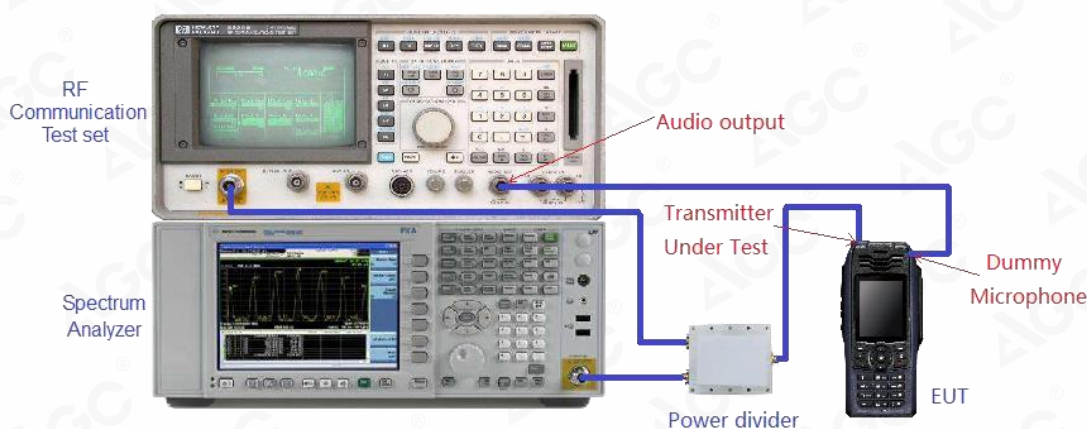
In this application, the EL is P(dBm).

$$\text{Limit (dBm)} = P(\text{dBm}) - 43 - 10 \log(P_{\text{watts}}) = -13 \text{ dBm}$$

11.2 MEASUREMENT METHOD

1. The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set to 100 kHz. Sufficient scans were taken to show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
3. Set RBW 100 kHz, VBW 300 kHz in the frequency band 30MHz to 1GHz,while set RBW=1MHz.VBW=3MHz from the 1GHz to 10th Harmonic.
4. The audio input was set the unmodulated carrier, the resulting picture is print out for each channel separation.

11.3 MEASUREMENT SETUP



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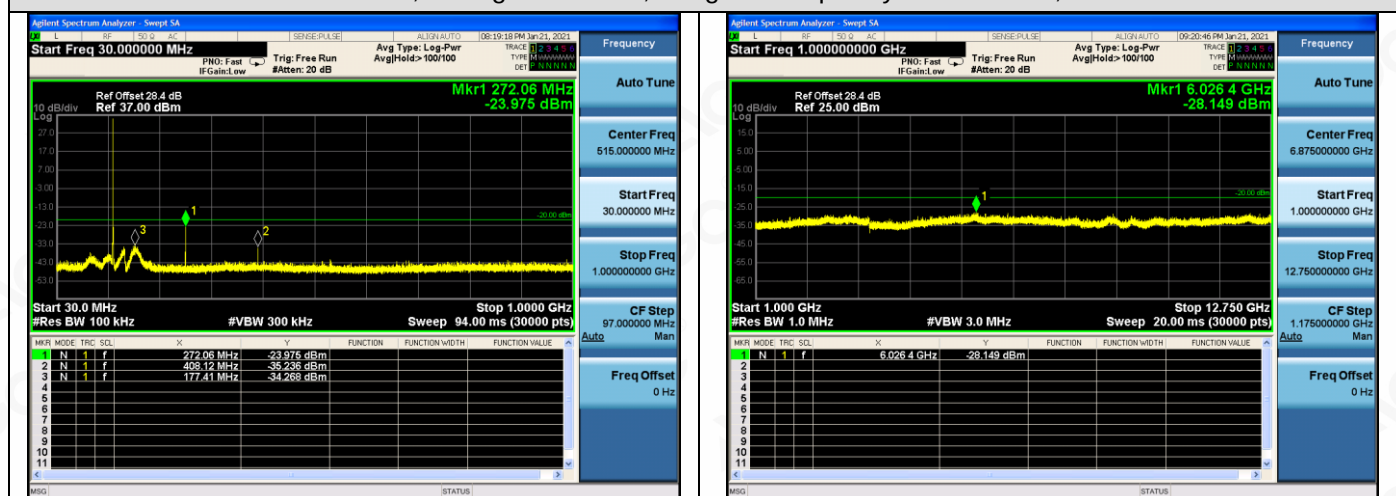
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11.4 MEASUREMENT RESULTS

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz,5W



12.5kHz, Analog modulation, Assigned Frequency:151.850MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:155.025MHz, 5W

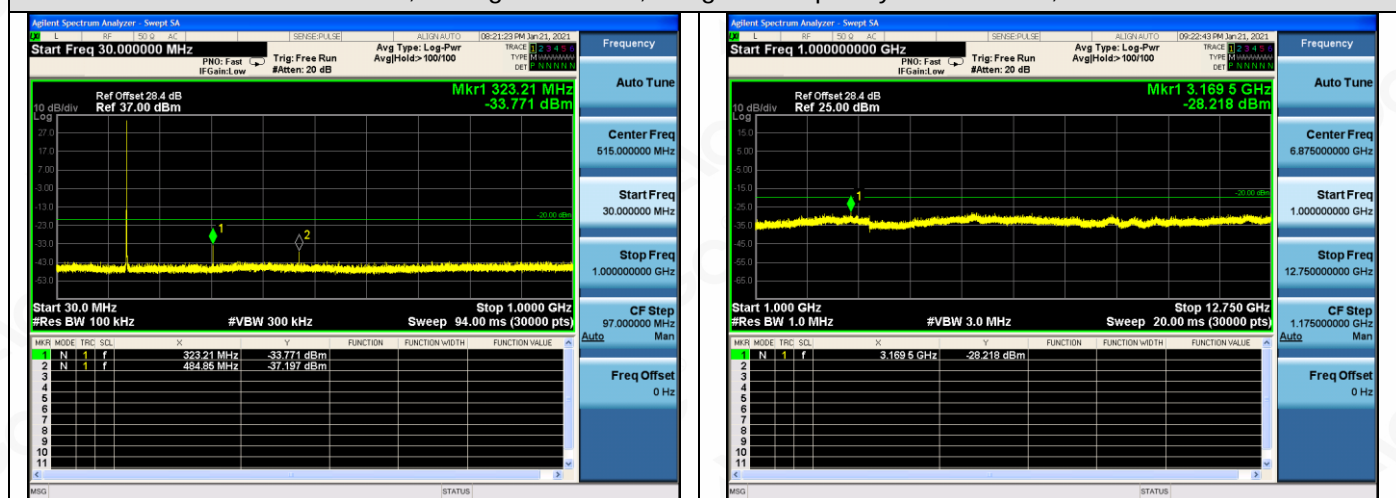


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12.5kHz, Analog modulation, Assigned Frequency:161.610MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:173.975MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:136.025MHz, 25W



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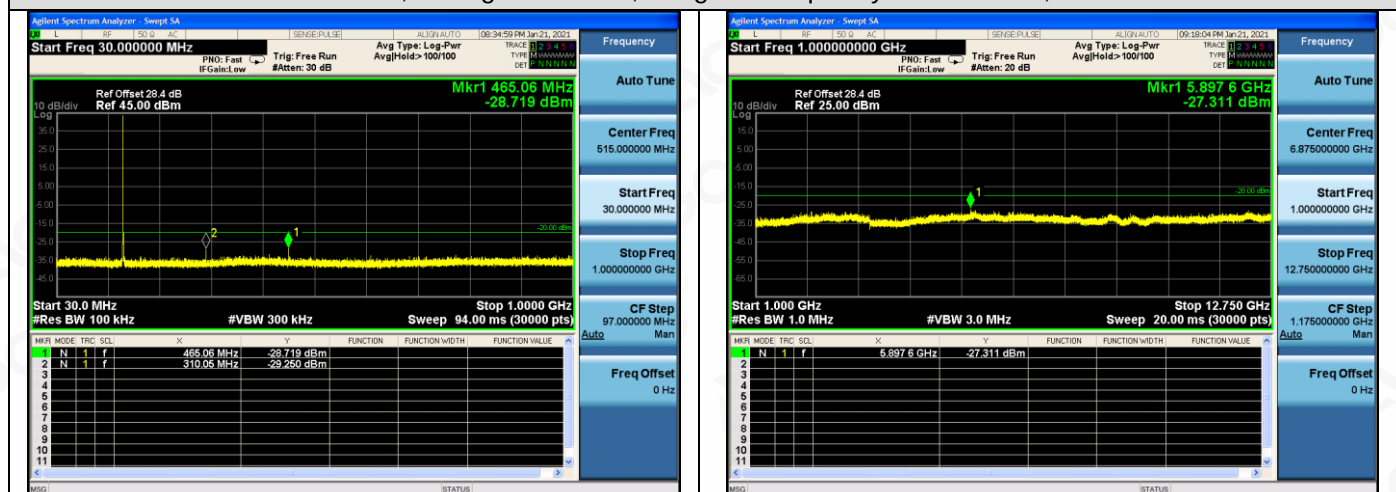
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12.5kHz, Analog modulation, Assigned Frequency:151.850MHz, 25W



12.5kHz, Analog modulation, Assigned Frequency:155.025MHz, 25W



12.5kHz, Analog modulation, Assigned Frequency:161.610MHz, 25W



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12.5kHz, Analog modulation, Assigned Frequency:173.975MHz, 25W



12.5kHz, Analog modulation, Assigned Frequency:136.025MHz, 55W



12.5kHz, Analog modulation, Assigned Frequency:151.850MHz, 55W



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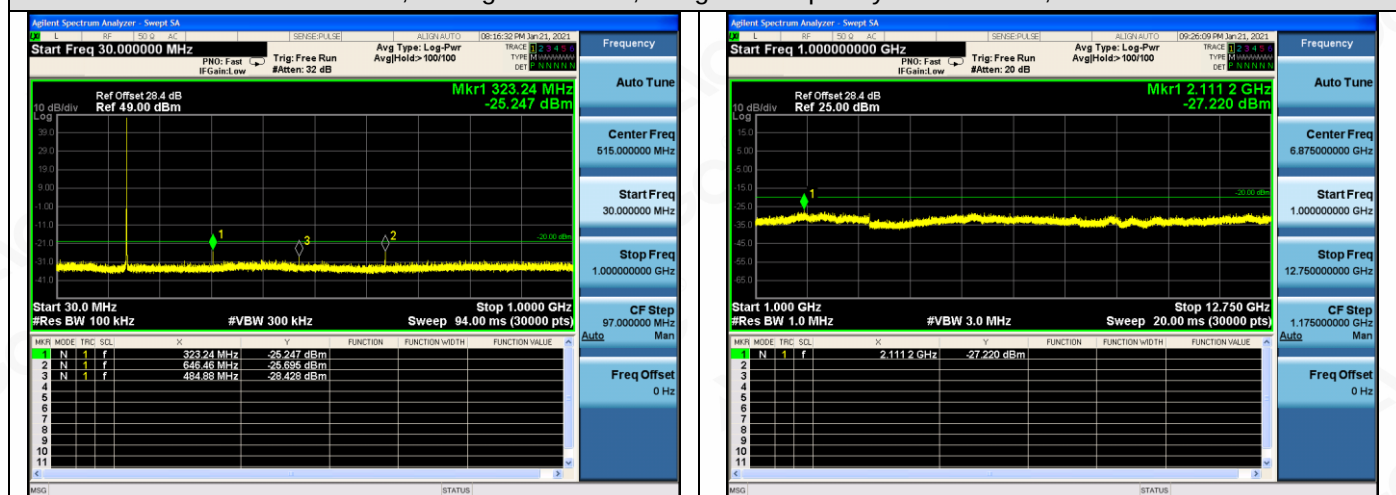
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12.5kHz, Analog modulation, Assigned Frequency:155.025MHz,55W



12.5kHz, Analog modulation, Assigned Frequency:161.610MHz, 55W



12.5kHz, Analog modulation, Assigned Frequency:173.975MHz, 55W



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