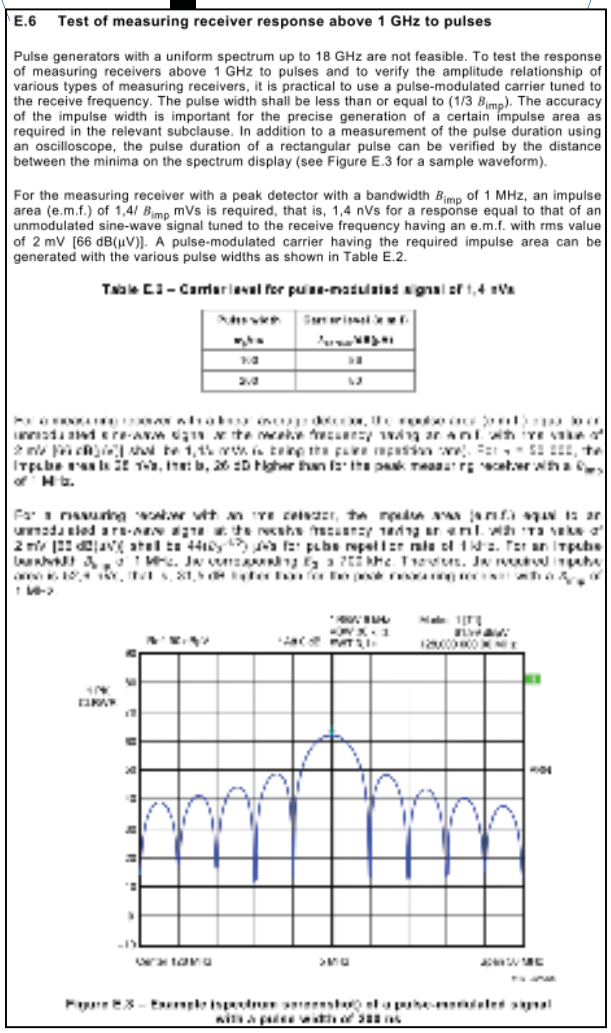
# 1GHz以上のEMI測定を行うお客様へ

# 「Band E パルス応答特性」の A2LA認定校正開始のお知らせ



**E.6 Test of measuring receiver response above 1 GHz to pulses**

Pulse generators with a uniform spectrum up to 18 GHz are not feasible. To test the response of measuring receivers above 1 GHz to pulses and to verify the amplitude relationship of various types of measuring receivers, it is practical to use a pulse-modulated carrier tuned to the receive frequency. The pulse width shall be less than or equal to (1/3 $B_{imp}$). The accuracy of the impulse width is important for the precise generation of a certain impulse area as required in the relevant subclause. In addition to a measurement of the pulse duration using an oscilloscope, the pulse duration of a rectangular pulse can be verified by the distance between the minima on the spectrum display (see Figure E.3 for a sample waveform).

For the measuring receiver with a peak detector with a bandwidth $B_{imp}$ of 1 MHz, an impulse area (e.m.f.) of 1,4/ $B_{imp}$ mVs is required, that is, 1,4 nVs for a response equal to that of an unmodulated sine-wave signal tuned to the receive frequency having an e.m.f. with rms value of 2 mV [66 dB(μV)]. A pulse-modulated carrier having the required impulse area can be generated with the various pulse widths as shown in Table E.2.

**Table E.2 – Carrier level for pulse-modulated signal of 1,4 nVs**

| | |
|---|---|
| 1 μs | 66 |
| 2 μs | 72 |





（CISPR16-1-1より抜粋）

『1GHz以上のEMI測定を行うお客様に朗報です』

弊社キャリブレーション・ラボラトリーが、6月に行ったA2LA更新審査において、CISPR16-1-1: 2010　に要求されている

「Band E パルス応答特性」 の★認定校正を取得しました。

１GHｚ以上のEMI測定には欠かせない校正項目ですので、今までご利用いただいたインパルス帯域幅オプションとあわせて、こちらのオプションもご利用ください。

なお、製造メーカのPerformance　Testに基づいた「フル校正」には、本校正内容も含まれています。


**株式会社 東陽テクニカ**
**キャリブレーション・ラボラトリー**

〒103-8284
東京都中央区八重洲1－1－6

フリーダイヤル: 0120-70-1040
電話: 03-3245-1102
FAX: 03-3246-0645
電子メール: cal-lab@toyo.co.jp