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TEST RESULTS TO SPECIFICATION PTC 200 Issue 2 Amd 1 February 1998

<i>Item</i>	<i>Mandatory Test Required</i>	<i>Test Result</i>			<i>Complies</i>	
		<i>Sample 1</i>	<i>Sample 2</i>	<i>Sample 3</i>	<i>YES</i>	<i>NO</i>

<p>.....</p> <p>.....</p>

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		Sample 1	Sample 2	Sample 3	YES	NO

2.0	GENERAL:					
2.8	Electrical safety; - Compliance (as applicable) with AS/NZS 3260; <i>Limit: complies Yes/No</i>	Yes/No				
2.11.1 (6)(7)	Test procedure; Functional tests; does device perform basic functions satisfactorily? If answer is 'No', are functional limitations covered by warning notice in User Instructions?	Yes/No Yes/No/NA				
4.0	TRANSMISSION REQUIREMENTS:					
4.1 (1a)	<u>General:</u> Number of samples Tested; - For electro-acoustic device; <i>Limit: 3 or N/A</i> - For other device; <i>Limit: 1 or N/A</i> Indicate No. tested;	.....			
(1c)	Receive Volume Control; - tests carried out for all settings; <i>Limit: PTC200</i>	Yes/No/NA				
(1f)	Ministry of Commerce Compliance; <i>Limit: RFS29</i>	Yes/No/NA				
4.2 (1a)	<u>Transmitted Power Limitations:</u> -Signals to line of more than 5 seconds; <i>Limit: £ -9dBm</i>	.....dBm				
(1b)	-Signals to line of less than 5 seconds; <i>Limit: £ -4dBm</i>	.....dBm				
(1c)	-The maximum instantaneous peak power; <i>Limit: £ 0dBm</i>	.....dBm	.....dBm	.....dBm		
(2)	-Signal limitations to line on any acoustic stimulus; <i>Limit: +10dBV</i>dBVdBVdBV		

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		Sample 1	Sample 2	Sample 3	YES	NO
(3)	- Any recorded message or voice signal transmitted; <i>Limit: -6 to -16VU</i>VU				
(4)	Pre-recorded music, synthesised music or composite speech and music signals; <i>Limit: -12 to -25VU</i>	.....VU				
§4.3	<u>Noise and Crosstalk:</u>					
§4.3.1	On-Hook Noise and Crosstalk;					
(1)	The psophometric noise power level to line in on-hook state; <i>Limit: £ -65 dBmp</i>	.....dBmp				
(2)(b)	One minute mean on-hook noise power above 4 kHz <i>Limit: below limits in Fig 4.2</i>					
(3)	With room noise/background conversation at approx 65 dB SPL, is on-hook coupling to line = -65 dBmp	Yes/No				
§4.3.2	Off-Hook Noise and Crosstalk;					
(1a)	The psophometric noise power level to line in Off-hook state; <i>Limit: £ -60 dBmp</i>	.....dBmp				
(1b)	Signal-to-Noise Ratio of recorded speech or music in 0.1 -5 kHz band; <i>Limit: ≧ 20 dB</i>	.....dB				
(1d)	One minute mean off-hook noise power above 4 kHz <i>Limit: below limits in Fig 4.2</i>					
(2a)	The individual power level of any extraneous frequency in 0.3-5 kHz range, during signalling; <i>Limit: > 20 dB below</i>dB				
(2b)	One minute mean Signal to noise Ratio					

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		Sample 1	Sample 2	Sample 3	YES	NO
	during signalling; <i>Limit: > 20 dB</i>dB				
§4.3.3	Crosstalk isolation for multi-line-device, in 0.3-3.4 kHz range; <i>Limit: > 50 dB</i>dB				
§4.4	<u>Distortion:</u>					
(1b)	Total send harmonic distortion of recorded speech, in 0.3-3.4 kHz range; <i>Limit: £ 10%</i>%				
(1c)	Total send harmonic distortion introduced by non-terminating serial device; <i>Limit: £ 5%</i>%				
§4.5	<u>Line impedance of the device:</u>					
§4.5.1	OFF-HOOK line impedance;					
(2a)	Min. Return Loss in 0.3 -1 kHz range; <i>Limit: [±] 10 dB</i>	.....dB				
(2c)	Min. Return Loss in 1-3.4 kHz range; <i>Limit: [±] 12 dB</i> (note Return loss figures from 300 Hz to 1000 Hz at 100 Hz intervals and 1000 to 3400 at 200 Hz intervals to be attached)	.....dB				
(3)	Echo Return Loss; <i>Limit: [±] 14 dB</i>	.....dB				
(4)	Is the warning notice required? <i>Limit: YES or NO</i>	Yes/No				
(5a)	Minimum Return Loss (BT3) - relaxed; <i>Limit: [±] 8 dB or N/A</i>	.....dB				
(5b)	Minimum Return Loss (600Ω) - relaxed; <i>Limit: [±] 16 dB or N/A</i> (see note for §4.5.1(2))	.....dB				
(5c)(i)	Minimum Return Loss (FRG) - relaxed, in 300 - 600 Hz range; <i>Limit: [±] 10 dB</i> (see note for §4.5.1(2))dB				

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		Sample 1	Sample 2	Sample 3	YES	NO
(5c)(ii)	Minimum Return Loss (FRG) - relaxed, in 0.6 - 3.4 kHz range; <i>Limit: ≥ 15 dB</i>dB				
(6)	Minimum Return Loss for limited bandwidth products; <i>Limit: > 3 dB</i> <i>where signal is below -30 dBm</i> (show levels on return loss figures for §4.5.1(2))	.....dB				
(7)	Echo Return Loss during Hold; <i>Limit: > 3 dB</i>	.....dB				
(8)	Minimum Return Loss during DTMF signalling; <i>Limit: > 5 dB</i>	.....dB				
§4.5.2	Minimum On - Hook Line Impedance over frequency range 300 - 3400 Hz; <i>Limit: ≥ 10 kW</i>	.....k?				
§4.6	<u>Port impedance - series connected CPE:</u>					
§4.6.1	Series connected terminating device;					
(1)	Minimum Return Loss of the PSTN line port vs (BT3), in 0.3 - 1kHz range; <i>Limit: ≥ 10 dB</i> Minimum Return Loss of the PSTN line port vs (BT3), in 1 - 3.4kHz range; <i>Limit: ≥ 12 dB</i> Echo Return Loss of the PSTN line port vs (BT3), <i>Limit: ≥ 14 dB</i>	.....dB.....dB.....dB				
(2)	Minimum Return Loss of the terminal equipment 2-wire port vs (BT3), in 0.3 - 1kHz range; <i>Limit: ≥ 10 dB</i>dB				

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		Sample 1	Sample 2	Sample 3	YES	NO
	Minimum Return Loss of the terminal equipment 2-wire port vs (BT3), in 1 - 3.4kHz range; <i>Limit: ≥ 12 dB</i>dB				
	Echo Return Loss of the terminal equipment 2-wire port vs (BT3); <i>Limit: ≥ 14dB</i>	.....dB				
§4.6.2	Series connected non-terminating device;					
(a) (b)	Min. Return Loss of the PSTN port while the proprietary port is BT3 terminated; 20 mA 80 mA <i>Limit: ≥ 25 dB</i>	.....dB.....dB				
§4.8	<u>Impedance Balance Ratio to Earth:</u>					
(1) (3)	Impedance Balance Ratio to Earth for all devices in 0.2-4 kHz range; On-hook: Off-hook: <i>On & Off-Hook limits: ≥ 40 dB</i>	.....dB.....dB				
§4.9	<u>Frequency Response:</u>					
¶4.9.1 (3)	Send Frequency response; <i>Limit: plot within mask</i>	Yes/No	Yes/No	Yes/No		
¶4.9.2 (4)	Receive Frequency response; <i>Limit: plot within mask</i>	Yes/No	Yes/No	Yes/No		
§4.9.3	For non-voice equipment;					
(3)	Capability of automatic reduction of the transmitted signal bandwidth (eg. fall-back); <i>Limit: successful operation</i> Warning notice in User Instructions?	Yes/No/NA Yes/No/NA				
§4.9.4	For series-connected and bridging CPE;					

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		Sample 1	Sample 2	Sample 3	YES	NO
(a)	Minimum Insertion Loss for 2-wire series-connected device in non-terminating state, while the terminating device is off-hook; <i>Limit: £ 1 dB</i>dB				
(b)	Insertion Loss for 4-wire series-connected device in non-terminating state, while the terminating device is off-hook; <i>2 dB £ Limit £ 3 dB</i>	.....dB				
(d)	Minimum Insertion Loss for series-connected device with line termination, but in through transmission state with the terminating device off-hook; <i>Limit: £ 3 dB</i>	.....dB				
§4.9.5	Minimum Insertion loss of bridging device; <i>Limit: = 1 dB</i>	.....dB				
§4.10	<u>Send and Receive Loudness Rating:</u>					
(4a)	Send Loudness Rating vs current; 20 mA 45 mA 80 mA <i>+11 dB £ Limit: £ +2 dB</i>	.....dB.....dB.....dB	.....dB.....dB.....dB	.....dB.....dB.....dB		
	Receive Loudness Rating vs current; Without Volume Cont. or with Vol. Cont. on min. setting; 20 mA: 45 mA: 80 mA: <i>-1 dB £ Limit: £ -10 dB</i>	.....dB.....dB.....dB	.....dB.....dB.....dB	.....dB.....dB.....dB		
	With Vol. Cont. on max. setting; 20 mA: 45 mA: 80 mA: <i>Limit: £ -14 dB</i>dBdBdBdBdBdBdBdBdB		
(6)	Send Loudness Rating vs line length; 0 Km line:dBdBdB		

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		Sample 1	Sample 2	Sample 3	YES	NO
	3 Km line:dBdBdB		
	6 Km line:dBdBdB		
	Rec. Loudness Rating vs line length; Without Volume Cont. or with Vol. Cont. on min. setting;					
	0 Km line:	.....dB	.....dB	.....dB		
	3 Km line:	.....dB	.....dB	.....dB		
	6 Km line:	.....dB	.....dB	.....dB		
	With Vol. Cont. on max. setting;					
	0 Km line:	.....dB	.....dB	.....dB		
	3 Km line:	.....dB	.....dB	.....dB		
	6 Km line:	.....dB	.....dB	.....dB		
§4.11.3	<u>Sidetone:</u>					
(1)(2)	Sidetone Masking Rating (STMR); - against BT3: - against 600Ω: <i>Limit (for BT3): = 7 dB</i>	.....dB.....dB	.....dB.....dB	.....dB.....dB		
§4.12	<u>Instability:</u>					
(1)	Stability under operating conditions; <i>Limit: stable behaviour</i>	Yes/No	Yes/No	Yes/No		
(2a)	Stability-terminated with 270Ω; <i>Limit: compliant (YES or NO)</i>	Yes/No	Yes/No	Yes/No		
(2b)	Stability-terminated with 1.6kΩ+510nF; <i>Limit: compliant (YES or NO)</i>	Yes/No	Yes/No	Yes/No		
§4.13	<u>Acoustic Shock Protection:</u>					
	The sound pressure at the earpiece; <i>Limit: +118 dB +111 dBA (headsets)</i>	.....dBA	.....dBA	.....dBA		
§4.14	<u>Adjustable Volume Control:</u>					
(1)	§4.2 to §4.13 must be tested with the minimum and the maximum settings; <i>Limit: compliant (YES or NO)</i>	Yes/No	Yes/No	Yes/No		
(5)	The volume control should not affect compliance with d.c. voltage or the send					

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		Sample 1	Sample 2	Sample 3	YES	NO
	performance characteristics; <i>Limit: compliant (YES or NO)</i>	Yes/No	Yes/No	Yes/No		
§4.15	<u>Telephony Security while on-hook:</u>					
(1)	On-hook coupling from the line. There shall be no evidence of coupling; <i>Limit: compliant (YES or NO)</i>	Yes/No	Yes/No	Yes/No		
§4.16	<u>Recorded Message Quality:</u>					
(1)	Intelligibility of recorded message to the distant party; <i>Limit: suitably intelligible (YES or NO)</i>	Yes/No				
5.0	SIGNALLING REQUIREMENTS:					
§5.1	<u>Signalling Types:</u>					
(4)	On-hook signalling should not be possible; <i>Limit: compliant (YES or NO)</i>	Yes/No				
§5.2	<u>Transmission of DTMF signalling:</u>					
§5.2.1	DTMF Frequencies;					
(1) (2)	The Low Group frequencies shall be as follows (line current 80 mA); 697 Hz:Hz 770 Hz:Hz 852 Hz:Hz 941 Hz:Hz <i>Limit: ± 1.5 %</i> The High Group frequencies shall be as follows (line current 80 mA); 1209 Hz:Hz 1336 Hz:Hz 1477 Hz:Hz 1633 Hz:Hz <i>Limit: ± 1.5 %</i> The Low Group frequencies shall be as follows (line current 20 mA); 697 Hz:Hz					

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		Sample 1	Sample 2	Sample 3	YES	NO
	770 Hz: 852 Hz: 941 Hz: <i>Limit: ± 1.5 %</i>HzHzHz				
	The High Group frequencies shall be as follows (line current 20 mA); 1209 Hz: 1336 Hz: 1477 Hz: 1633 Hz: <i>Limit: ± 1.5 %</i>HzHzHzHz				
(3)	10 numeric digits plus '*' and '#' symbols shall be supported; <i>Limit: complies (YES or NO)</i>	Yes/No				
§5.2.2	DTMF signalling requirements;					
(1)	DTMF requirements shall comply in the current range of 20mA to full current; <i>Limit: complies (YES or NO)</i>	Yes/No				
2(a)	Return Loss during signalling shall comply with §4.5.8; <i>Limit: not less than 5 dB</i>	.....dB				
2(b)	DTMF power level (detailed test results to be attached); <i>-13dBm £ Limit: £ -4dBm</i>					
2(d)	DTMF pre-emphasis (detailed test results to be attached); <i>1 dB £ Limit: £ 3 dB</i>					
2(e)	DTMF intermodulation (detailed test results to be attached); <i>Limit: =20dB below</i>					
§5.2.3	Signal timing;					
(a)	Minimum tone - ON duration; <i>Limit: 60 milliseconds</i>	.....ms				
	Minimum interdigital pause; <i>Limit: 60 milliseconds</i>	.....ms				
§5.2.4	Series connected equipment;					
(1)	Harmonic distortion of DTMF signals introduced by series connected device; <i>Limit: £ 5%</i>%				

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		Sample 1	Sample 2	Sample 3	YES	NO
(2)	DTMF Signalling facility for series connected terminating devices shall comply with §5.2.1 to §5.2.3; <i>Limit: complies (YES or NO)</i>	Yes/No				
§5.2.5	Speech circuit suppression during DTMF keying; <i>Limit: ≈ 30 dB</i>	.....dB				
§5.3	<u>DTMF Receivers:</u>					
(1a)	DTMF receiver signal level range; Minimum level: <i>Limit: = -30dBm</i> Maximum level: <i>Limit: = -5dBm</i>	.....dB dB				
(1b)	DTMF receiver frequency tolerance; <i>Limit: ± 3 % of nominal (Yes/No)</i>	Yes/No				
(2)	DTMF receiver timing recognition; <i>Limit: at least 40 ms (Yes/No)</i>	Yes/No				
§5.4	<u>Decadic Signalling:</u>					
§5.4.1	General;					
(1)	Is Decadic Signalling facility provided (and not disabled)? <i>Limit: YES or NO</i>	Yes/No				
(2)	If YES, is the warning notice provided? <i>Limit: YES or NO</i>	Yes/No				
(4)	If applicable, is the warning notice, regarding bell tinkle provided? <i>Limit: YES or NO or N/A</i>	Yes/No/NA				
(6)	Is the warning notice, regarding the unusability of Decadic Signalling provided? <i>Limit: YES, NO or N/A</i>	Yes/No/NA				
§5.4.2	Reverse Decadic numbering;					
(1)(2)	Is the Decadic numbering reversed? <i>Limit: YES or NO or N/A</i>	Yes/No/NA				

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		Sample 1	Sample 2	Sample 3	YES	NO
(3)	Is the warning notice, regarding the programming of Decadic numbers provided? <i>Limit: YES or NO or N/A</i>	Yes/No/NA				
§5.4.3	Voltage/Line current conditions;					
(1)	Voltage across the line during Decadic signalling shall comply with §6.3; <i>Limit: YES or NO or N/A</i>	Yes/No/NA				
(2)	Current drawn from PSTN during Decadic Signalling; <i>Limit: £ 500µA</i>	Yes/No/NA				
§5.4.4	Decadic pulse rate and timing;					
(1)	The rate of pulsing; <i>Limit: 10 ± 1 pps</i>	.....pps				
(2a)	The break period for 9 to 11 pps; <i>Limit: 63 to 71%</i>%				
(2b)	The break period for 9.9 to 10.1 pps; <i>Limit: 57 to 80%</i>%				
(3a,b)	Inter-digital pause; <i>Limit: 240 to 1000 ms</i>	.....ms				
(4)	Is the current level maintained as required? <i>Limit: YES/NO</i>	Yes/No				
(5)	No more than 10 pps may be sent to line in one pulse train; <i>Limit: complies (YES/NO)</i>	Yes/No				
(6)	No spurious or mutilated pulsed may be generated; <i>Limit: complies (YES/NO)</i>	Yes/No				
§5.4.5	Decadic pulse distortion by series connected devices; <i>Limit: £ 1%</i>%				
§5.5	<u>Effect of line current conditions on</u>					

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		Sample 1	Sample 2	Sample 3	YES	NO
	<u>signalling;</u>					
(2)	The dialler circuit shall tolerate Line break up to 50 ms in duration; <i>Limit: complies (YES/NO)</i>	Yes/No				
(3)	No wrong numbers are to be dialled on line breaks of up to 100 ms in duration; <i>Limit: complies (YES/NO)</i>	Yes/No				
5.6	<u>Automatic Dialling Devices;</u>					
5.6.1	General requirements					
(1)	Automatic dialling feature without pre-recorded message. Shall only be activated manually; <i>Limit: complies (YES/NO)</i>	Yes/No				
(2a)	No more than 10 calls to same number for each manual operation; <i>Limit: complies (YES/NO)</i>	Yes/No				
(2b)	No less than 30 secs between call attempts; <i>Limit: complies (YES/NO)</i>	Yes/No				
(3)	Warning notice prohibiting automatic calls to '111'; <i>Limit: complies (YES/NO)</i>	Yes/No				
(4)	Facility provided to reprogramme called numbers; <i>Limit: complies (YES/NO)</i>	Yes/No				
5.6.2	Caller display equipment;					
(5)	Adjunct caller display unit without associated keypad;					
(a)	Is digit "0" inserted on numbers of 8-9 digits received from the network?	Yes/No				
(b)	Are no digits inserted on numbers of 7 digits or less?	Yes/No				
5.6.4	Manual insertion of digits;					

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		Sample 1	Sample 2	Sample 3	YES	NO
(2)	Warning notice for adjunct automatic dialling unit which requires associated telephone for inserting dialling prefixes; <i>Provided: Yes/No</i>	Yes/No				
5.6.5	User Instructions;					
(1)	Are clear user instructions provided?	Yes/No				
(3)	Do user instructions explain:-	Yes/No				
(a)	Dialling procedures adequately?	Yes/No				
(b)	Impact of "non-code access"?	Yes/No				
(4)	Warning notice about local call charges; <i>Provided: Yes/No</i>	Yes/No				
5.7	<u>Keypad layout:</u>					
5.7.1	International standard layout;	Yes/No				
(1) - (3)	<i>Complies? Yes/No</i> If 'No', state details of layout					
(5)	Reassembling the keypad of Decadic telephones is not acceptable; <i>Limit: complies (YES/NO)</i>	Yes/No				
6.0	DC CHARACTERISTICS:					
6.2	<u>Function of D.C. line feed:</u>					
(3)(4)	Is the device polarity dependent? <i>Limit: Yes/No</i>	Yes/No				
6.3	<u>OFF-Hook d.c. line characteristics:</u>					
(1)	The d.c. Voltage at various currents shall not exceed the upper mask;					
	d.c Voltage at 15 mA	.....V				
	<i>Limit: £ 9V</i>					
	d.c Voltage at 20 mA	.....V				
	<i>Limit: £ 9V</i>					
	d.c Voltage at 45 mAV				
	<i>Limit: £ 20V</i>					
	(These currents are approximate only					

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		Sample 1	Sample 2	Sample 3	YES	NO
	see App. 2)					
(2)	Is the d.c. Voltage at any current below the lower mask? <i>Limit: Yes/No</i>	Yes/No				
(3)	If the answer to the above is YES, is the hand-over warning notice provided? <i>Limit: Yes/No</i>	Yes/No				
(4)	All devices shall fully operate down to 20 mA; <i>Limit: Yes/No</i>	Yes/No				
§6.4	<u>Supervisory conditions:</u>					
(1)	Line seizure should be initiated by going OFF- Hook and drawing d.c. current; <i>Complies? (Yes or No)</i>	Yes/No				
(2)	Ring trip shall be initiated upon answering an incoming call by going OFF-Hook and drawing d.c. current; <i>Complies? (Yes or No)</i>	Yes/No				
(3)	Call release shall be initiated by going ON-Hook and breaking the line current; <i>Complies? (Yes or No)</i>	Yes/No				
(5)	Does the device comply with the mandatory requirements of §6.3? <i>Complies? (Yes or No)</i>	Yes/No				
(6)	In case of power failure of locally powered CPE, the call shall be released; <i>Limit: £ 5 sec.</i>	.....sec				
§6.5	<u>Hold condition:</u>					
(1a,b)	What type of Hold facility-in-use indicator is provided? <i>Limit: comment required</i>					
(c)	Hold condition time-out; <i>Limit: £ 3 min.</i>min				
(2)	Hold current on 24V/400Ω feed; <i>Limit: ³ 15mA</i>mA				

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		Sample 1	Sample 2	Sample 3	YES	NO
(3)	Hold release shall occur within 500 ms under the following conditions;					
(a)	- 450Ω resistive shunt <i>Complies? (Yes or No)</i>	Yes/No				
(b)	- Another device connected; <i>Complies? (Yes or No)</i>	Yes/No				
(c)	- Disconnection of line current source; <i>Complies? (Yes or No)</i>	Yes/No				
(5)	On series-connected auto-dialling devices, handover to associated device shall occur within 1 sec of last digit sent; <i>Limit: £ 1000 ms.</i>	.....ms				
§6.6	<u>Line breaks:</u> The duration of any undefined line break; <i>Limit: £ 9 ms</i>	.....ms				
§6.7	<u>ON-Hook line current:</u>					
(2)	The total ON- Hook d.c. current drawn by the device from the line; <i>Limit: £ 120 µA.</i>	.....µA				
§6.8	<u>Recall & Call Waiting:</u>					
(2)	Is separate Call Waiting key provided? If 'Yes' , what is length of break when invoked? <i>300 £ Limit: £ 800 ms</i>	Yes/No ms				
(3)	The Timed Break Recall (TBR) invoked; <i>300 £ Limit: £ 800 ms</i>	.....ms				
(5)	Is the warning notice regarding TBR and/or Call Waiting provided, if less than 500 ms?	Yes/No/NA				
§6.9	<u>Series connected equipment:</u>					
§6.9.1	D.C. line characteristics of series CPE;					
(1)	Port -to-port voltage drop via each leg; <i>Limit: £ 3 V at 0 - 30mA</i>V				

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		Sample 1	Sample 2	Sample 3	YES	NO
	<i>Limit: £ 6 V at 100 mA</i>V				
(2)	The line current measured at the line port during ringing with 50V/400? connected to the line port and 5µF/1800? connected to the terminal equipment port; <i>Limit: = 5 mA</i>mA				
(3)	Is each terminal port on multi-port device compliant with §6.9.1(1,2)? <i>Yes/No/N/A</i>	Yes/No/NA				
(4)	In conjunction with any other terminating CPE, is the series connected device compliant with §6.3 to §6.8? <i>Yes/No/N/A</i>	Yes/No/NA				
§6.9.4 (1)	Is line grabbing function provided? If so;	Yes/No				
(a)	How long is clear signal applied before initiating next call? <i>Limit: = 2 sec</i>	.....sec				
(b)	Does equipment comply with §8.1.2(1)?	Yes/No				
(2)(3)	Is warning notice in User Instructions?	Yes/No				
§6.10	<u>D.C. line feed to other devices:</u>					
(1)	All ports of a device, for series connected CPE, shall provide d.c. line feed;	Yes/No/NA				
(3)	Any restrictions on the loop resistance for series connected device in order to establish OFF-Hook condition;	Yes/No/NA				
(4)	Ripple components psophometric limit for series connected port; <i>Limit: £ 2mV</i>	.....mV				
(5a)	OFF-Hook d.c. feed current, for series connected port and load of 10KΩ; <i>Limit: ³ 15 mA</i>mA				
(5b)	ON-Hook d.c. feed current, for series					

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		Sample 1	Sample 2	Sample 3	YES	NO
	connected port and load of 10KΩ; <i>Limit: £ 5 mA</i>mA				
(6a)	Is the series connected port capable of supplying continuous ON-Hook d.c. current for CPE with memory functions? If 'Yes', is current in excess of 150µA? <i>Limit:=150 µA</i>	Yes/No/NA µA				
(6b)	If the answer to §(6.a) is 'No', then the warning note, regarding a potential memory loss shall be provided; <i>Complies: Yes/ No/N/A</i>	Yes/No/NA				
(7)	If answer to §(6a) is 'Yes', indicate how many devices this port can cater for, also allowing for limitation of clause 7.7.2;	.....			
§6.11	<u>Fail-safe requirements:</u>					
¶6.11.1	All customer equipment;					
(1a,b)	On restoration of a.c. mains from power failure, the device shall maintain an ON-Hook state; <i>Complies Yes/No</i>	Yes/No				
(2a,b)	A failure of a battery powered CPE shall be prevented from harming Telecom Network in any way; <i>Complies Yes/No</i>	Yes/No				
(3)	Warning notice required if telephony function lost under power fail conditions; <i>Complies Yes/No</i>	Yes/No				
§6.11.2	Series connected device - additional;					
(1)	The basic telephony service shall be maintained when serial device fails; <i>Complies Yes/No</i>	Yes/No				
(2a)	For multi-port devices, at least one port of a serial device shall be connected to line if power fails; <i>Complies Yes/No</i>	Yes/No				

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		Sample 1	Sample 2	Sample 3	YES	NO
(2b)	In case of operational failure, a multi-port device shall revert to a predetermined state with details in the user manual; <i>Complies Yes/No</i>	Yes/No				
(3b)	In case of operational failure on a single-port device, details of any failsafe connection arrangements shall be stated in the user manual; <i>Complies Yes/No</i>	Yes/No				
§6.12	<u>PABX call waiting:</u> PABXs providing 100 V d.c. signal for call waiting shall comply with the requirements of Specification PTC101; <i>Complies: Yes/No</i>	Yes/No				
7.0	RINGING:					
§7.1	<u>General:</u>					
(4)	Is the device Equipped with Type1, Type2 or both decoder functions? <i>Specify or N/A</i>	Type 1..... Type 2..... N/A.....				
§7.2	<u>Stand-alone ringers and alerting devices:</u>					
(3a)	The stand-alone ringer for interior use shall be capable of BT-plug connection; <i>Complies: Yes/No</i>	Yes/No				
(3d)	If fitted with integral capacitor, is BT plug wired across pins 2 & 5. If Shunt wire used, plug shall be wired to pins 2 & 4; <i>Complies: Yes/No</i>	Yes/No				
§7.3	<u>Externally mounted devices:</u> All new equipment mounted externally shall incorporate the following;					
(a)	2-wire connection with a capacitor of value not greater than 1uF; <i>Complies: Yes/No</i>	Yes/No				
(b)	Screw or IDC terminals;	Yes/No				

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		Sample 1	Sample 2	Sample 3	YES	NO
	<i>Complies: Yes/No</i>					
(c)	Weather resistant cable access; <i>Complies: Yes/No</i>	Yes/No				
§7.4	<u>Audible characteristics:</u>					
(1)	The sound level of the audible sounder 1 m away from the ringer source; <i>Limit: \approx 50 dBA</i>	.....dBA				
§7.5	<u>Ringer sensitivity and loading:</u>					
§7.5.1	General operation of the ringer;					
(2)	Is the sensitivity and loading (clauses 7.5.2 & 7.5.3) satisfactory for all four cadences, DA1-4?; If 'No' is this indicated by a warning notice in the User Instructions?	Yes/No Yes/No				
(3)	The DA1-4 cadence decoding duration from the moment the ringing is applied; <i>Limit: \approx 3 sec.</i>	.....secs				
(4)	The compliance to ringing cadence ON period; <i>360 ms \leq Limit: \leq 440 ms</i>	.....ms				
(4i)	Is the ringer compatible with 20% ringing signal deviation (320 to 480 ms)? <i>Yes/No/N/A</i>	Yes/No/NA				
(4ii)	Is the ringer compatible with 30% ringing signal deviation (280 to 520 ms)? <i>Yes/No/N/A</i>	Yes/No/NA				
§7.5.2	Ringer sensitivity;					
(1)	Ringer sensitivity (RS) for 2/3 wire CPE; <i>Limit: 0 \leq RS \leq 5</i>	RS =				
(2)	Ringer minimum operate voltage; <i>Limit: \approx 30 V_{p-p}</i>V _{p-p}				

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		Sample 1	Sample 2	Sample 3	YES	NO
(3)	Does ringer respond to ringing of 40 ms duration? If 'Yes', is there a warning notice in the User Instructions?	Yes/No				
(4)	Is there 'bell tinkle' from parallel connected device? If 'Yes', is there a warning notice in the User Instructions?	Yes/No				
§7.5.3	Ringer loading; Ringer loading (RL) for 2/3 wire CPE; <i>Limit: 0 £ RL £ 5</i>	RL =				
§7.6	<u>Ringing number (RN) for 2/3 wire CPE:</u>					
(1)(2)	Ringing number (RN) shall be the highest value of RS or RL as in §7.5.2 or §7.5.3; <i>Limit: 0.5 £ RN £ 5</i>	RN =				
(3)	Is the device intended for stand-alone connection and not in parallel with other CPE? <i>Yes/No</i> If 'Yes', is statement in User Instructions?	Yes/No Yes/No				
§7.7	<u>Series connected devices:</u>					
§7.7.1	General requirements (as for §7.5.1);					
§7.7.2	Series connected device without a terminating facility;					
(3)	Ringing Load (L _{RN}) supported at terminal					

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		Sample 1	Sample 2	Sample 3	YES	NO
	equipment port; <i>Limit: 3 4</i>	L _{RN} =				
	Ringer loading (RL) of the device itself; (derived from RL = 5 - L _{RN}) <i>Limit: 0 £ RL £ 5</i>	RL =				
(4)	For series connected, non-terminating device not responding to ringing, then RN = RL;	RN =				
(5a)	Series connected, non-terminating device which <u>does</u> respond to ringing but has its terminal ports <u>disconnected</u> during the first ringing cadence, RS and RN to be assessed as in §7.5.2 & §7.6:	RS = RN =				
(5b)	Series connected, non-terminating device which <u>is</u> responding to ringing but has its terminal ports <u>connected</u> during the first ringing cadence, shall be tested for RS and RN: <i>Limit: 0 £ RS £ 5 Limit: 0.5 £ RN £ 5</i>	RS = RN =				
§7.7.3	Series connected devices with terminating facility (eg. answering a call) shall comply with §7.5 & §7.6; <i>Complies Yes/No/NA</i>	Yes/No/NA				
§7.7.4	Terminal Equipment (Extension) Ports:					
(1)	Series connected device shall not connect ringing to an extension port when the port is in OFF-Hook state; <i>Complies Yes/No/NA</i>	Yes/No/NA				
(2)	Series connected device extending the call to an extension port via 4-wire path, shall reproduce PSTN ringing cadence within ± 5% in timing distortion; <i>Complies Yes/No/NA</i>	Yes/No/NA				
(3)	Terminal ports shall support ringing for 2 & 3 wire CPE; <i>Complies Yes/No/NA</i>	Yes/No/NA				
§7.7.5	Locally generated ringing;					
(a)	The ringing supply shall comply with electrical safety requirements of AS/NZS 3260;	Yes/No/NA				

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		Sample 1	Sample 2	Sample 3	YES	NO
	<i>Complies Yes/No/NA</i>					
(b)	The ringing voltage and duration shall comply with the requirements of AS/NZS 3260; <i>Complies Yes/No/NA</i>	Yes/No/NA				
(c)	The ringing supply extended to a port shall be connected to one wire with the second wire serving as a ring return path; <i>Complies Yes/No/NA</i>	Yes/No/NA				
(d)	Ringing supply frequency <i>Limit: 25 ± 1 Hz</i>	.....Hz				
(e) & (f)	Is 'crest factor' between 1.2 and 1.6? If 'No', then warning notice required in User Instructions; <i>Complies Yes/No/NA</i>	Yes/No Yes/No/NA				
(g)	Maximum ringing load (RN)	.....RN				
(h)	With twice the value of RN determined in (g), in parallel with a 10K? resistor and connected in parallel with the device, does it cause ring trip? <i>Complies Yes/No</i>	Yes/No				
(I) & (j)	Ringing cadence should preferably comply with the requirements of TNA 102, clause 6.4 with a tolerance of ± 10%; If 'No', then warning notice required in User Instructions; <i>Complies Yes/No/NA</i>	Yes/No Yes/No/NA				
8.0	AUTOMATIC CALL SET-UP, ANS. & RECORDING FUNCTIONS					

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		Sample 1	Sample 2	Sample 3	YES	NO
8.1	<u>Automatic Call Set-up & Repeat Calls</u>					
8.1.2	Call Initiation:					
(1)	Equipment designed for automatic calling shall either;					
(a)	Detect dial tone;	Yes/No				
(b)	Introduce delay before commencement of dialling; <i>1 sec = Limit= 7 secs</i>	.....secs				
(2)	Equipment shall only go off-hook automatically for call attempt or;					
(a)(b)	On no more than two occasions for 1-5 secs each, and only within 30 min period following call or call attempt; <i>Complies Yes/No</i>	Yes/No				
8.1.3	Automatic Re-attempts to Same Number:					
(1a&b)	No more than 10 attempts with at least 30 secs between each attempt; <i>Complies Yes/No</i>	Yes/No				
(2)	If requirements of (1) above are determined by other device (e.g. PC), warning notice required in User Manual; <i>Complies Yes/No/NA</i>	Yes/No/NA				
8.1.4	Automatic Calls to Different Numbers:					
(1)	Equipment programmed to call different numbers shall go on-hook for minimum of 2 secs between calls; <i>Complies Yes/No/NA</i>	Yes/No/NA				
(2)	If requirements of (1) above are determined by other device (e.g. PC), warning notice required in User Manual; <i>Complies Yes/No/NA</i>	Yes/No/NA				
8.1.5	Termination of Failed Call Attempts:					
(1)	If not answered in 90 secs, equipment shall terminate call;	Yes/No				

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		Sample 1	Sample 2	Sample 3	YES	NO
	<i>Complies Yes/No</i>					
8.1.6	Call Identification Phase:					
(1a&b)	Recorded message shall identify caller and be repeated at least once; <i>Complies Yes/No</i>	Yes/No				
(2)	Audio monitor provided;	Yes/No				
(3)	If fax machine, provision of CNG tone is mandatory;	Yes/No/NA				
8.1.7	User Instructions:					
(a)(b)	Warning notice(s) required to indicate that device shall not be set-up to become a nuisance to other customers and/or automatically call '111' Emergency Service; <i>Complies Yes/No</i>	Yes/No				
8.1.8	Call Logging:					
(a)(b)	Devices with logging facilities shall either log all calls initiated or include warning notice that log may not agree with Telecom account; <i>Complies Yes/No/NA</i>	Yes/No/NA				
8.2	<u>Automatic Answering Equipment</u>					
8.2.1	Call Answering;					
(1)(b)	Incoming calls shall be answered within 3 - 30 secs for all DA's; <i>3sec = Limit= 30 secs</i>	DA1.....secs DA2.....secs DA3.....secs DA4.....secs				
(c)	In all cases where requirements of (b) are not met, detailed reasons shall be supplied;					
(2)	If requirements of (1) above are determined by other device (e.g. PC),					

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		Sample 1	Sample 2	Sample 3	YES	NO
	warning notice required in User Manual; <i>Complies Yes/No/NA</i>	Yes/No/NA				
8.2.2	Voice Announcements & Recognition Tones:					
(1)	Voice announcement or tone provided within 5 secs of answering call; <i>Complies Yes/No</i>	Yes/No				
(3)	If device automatically switches call, voice announcement to be provided, and ring tone must be distinctively different to Telecom ring tone; <i>Complies Yes/No/NA</i>	Yes/No/NA				
8.4	<u>Call Release</u>					
(1)	Equipment capable of initiating or answering calls shall release such calls as follows:					
(a)	Within 15 secs of carrier failure or lack of activity; <i>Limit = 15 secs</i>	.....secs				
(b)	Within 15 secs of completion of intended function; <i>Limit = 15 secs</i>	.....secs				
(c)	Within 5 secs of power supply failure <i>Limit = 5 secs</i>	.....secs				
(3)	If device automatically switches call after answering, call shall be released if extension not off-hook within 60 secs of call being initially answered; <i>Limit = 60 secs</i>	.....secs				
(4)	Automatic answering devices with no supervisory capability shall release within 2 mins of going off-hook; <i>Complies Yes/No/NA</i>	Yes/No/NA				
8.5	<u>Recording Functions</u>					
(3)	Warning notice about legal requirements for recording devices shall be provided in User Instructions <i>Complies Yes/No</i>	Yes/No				

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		Sample 1	Sample 2	Sample 3	YES	NO
9.0	BILLING SECURITY					
¶9.1	<u>Cordless Devices:</u>					
(2)	Security process shall be provided; <i>Complies Yes/No</i>	Yes/No				
¶9.2	<u>Security Codes for Cordless Devices:</u>					
(1)	Manufacturers assurances that security codes provided between handset and base. <i>Complies Yes/No</i>	Yes/No				
(a)	There shall be a minimum of 8000 codes available;	No. of codes				
(b)	Number of codes available to device to be stated in User Instructions: <i>Complies Yes/No</i>	Yes/No				
(c)	Description of how security codes allocated shall be supplied, and written assurance that allocation results in random spread of codes over units to be marketed; <i>Complies Yes/No</i>	Yes/No				
(d)	If security code 'lost', is reallocation truly random? <i>Complies Yes/No</i>	Yes/No				
(e)	Description provided on how codes are transferred between portable and base to ensure security <i>Complies Yes/No</i>	Yes/No				
(g)	On originated calls, security code shall be automatically transmitted by portable, and base only seizes line after code received; <i>Complies Yes/No</i>	Yes/No				
10.0	NETWORK CONNECTION					
¶10.2	<u>Connection Methods:</u>					

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		Sample 1	Sample 2	Sample 3	YES	NO
(6)	Connection method compliant with 10.2(1) - (5) <i>Complies Yes/No</i>	Yes/No				
10.6 (2)	<u>Modification of 3-wire Devices for 2-wire Operation:</u> If device is a modified 3-wire version, are full details of modification supplied?	Yes/No				
10.7 10.7.1 (1)	<u>Series Connected Devices:</u> Line Grabbing Connections; Line grabbing devices shall be supplied with detailed instructions of connection via a Line Break-in Arrangement; <i>Complies Yes/No</i>	Yes/No				
10.7.2 (2)	Handover; Any break in d.c. loop during handover to another device shall not exceed 9 ms;	.....ms				
(3) (a)	Device shall comply with either (a) or (b); Full 3-wire facilities to 10.2 and 10.4 are available;	Yes/No				
(b)	Warning notice about ringing restrictions if 2-wire socket used;	Yes/No				
10.7.3 (2) (3)	Distinctive Alert Decoders; If Mode C connection is intended for a Type 2 decoder, User Instructions shall include warning notice that a Line Break-in Arrangement shall be used; <i>Complies Yes/No/NA</i>	Yes/No/NA				
10.7.4 (2)	Fault Clearance; If device is likely to use secondary fixed wiring on the terminal equipment side, a warning notice on fault procedure shall be included in the User Instructions; <i>Complies Yes/No/NA</i>	Yes/No/NA				
(3)	If LBA installation required, warning of fault clearance procedure shall be					

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		Sample 1	Sample 2	Sample 3	YES	NO
	included; <i>Complies Yes/No/NA</i>	Yes/No/NA				
10.8	<u>Connection Method for Externally Mounted Devices:</u> Devices designed for external use shall:-					
(1)	Not be plug connected; <i>Complies Yes/No/NA</i>	Yes/No/NA				
(3)	Have terminals suitable for connection of heavier weather resistant cable; <i>Complies Yes/No/NA</i>	Yes/No/NA				
11.0	SUPPLEMENTARY SERVICES & SPECIAL FEATURES					
11.1	<u>General:</u>					
(2)	Have all product features been declared by applicant?	Yes/No				
11.3	<u>Distinctive Alert Decoders:</u>					
11.3.1	General Considerations;					
(1)	Have all the other relevant requirements of this Specification been addressed?					
(a)	For Type 1 Decoder;	Yes/No/NA				
(b)	For Type 2 Decoder;	Yes/No/NA				
(c)	For Type 1 Decoder with port for separate associated device;	Yes/No/NA				
11.3.3	Type 2 Decoders;					
(3)(a)-(d)	An appropriate warning notice shall be included in the User Instructions; <i>Complies Yes/No</i>	Yes/No				
11.3.4	Access to the Network via Type 2 Decoder;					
(1)	Type 2 decoder shall not restrict a terminating device from initiating calls & receiving calls (subject to ringing decoding process), except as follows:-					

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		Sample 1	Sample 2	Sample 3	YES	NO
(a)	During a call in progress to or from another connected terminal device; <i>Complies Yes/No</i>	Yes/No				
(b)	For up to 3 secs following the commencement of any incoming ring; <i>Complies Yes/No</i>	Yes/No				
(c)	For 100 ms following application of the on-hook condition indicating completion of a call; <i>Complies Yes/No</i>	Yes/No				
(d)	For up to 3500 ms from cessation of incoming ringing where the caller terminates the call before it is answered; <i>Complies Yes/No</i>	Yes/No				
(2b)	If there is no provision for accessing the line while another call is in progress, then this shall be made clear in the User Instructions. Also, advice shall be given that to initiate an emergency call, any other call in progress must first be released <i>Complies Yes/No</i>	Yes/No				
¶11.4	<u>Analogue Calling Line Identification (CLI) Equipment:</u>					
¶11.4.2	On-hook Impedance;					
(1)	If on-hook impedance is changed from that required by §4.5.2 during reception of data, the following shall apply:-					
(a)	Impedance shall be restored to that required by §4.5.2 for the second ringing cadence; <i>Complies Yes/No</i>	Yes/No				
(b)	If coded ringing is used, unit shall decode the ringing to determine when the impedance should be applied and removed; <i>Complies Yes/No</i>	Yes/No				
(2)	At all times other than that covered by (1) above, the impedance shall be as stated in §4.5.2;	Yes/No				

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		Sample 1	Sample 2	Sample 3	YES	NO
	<i>Complies Yes/No</i>					
¶11.4.3 (3)	Ringing; On-hook data transmission receivers shall be compatible with the requirements of Section 7; <i>Complies Yes/No</i>	Yes/No				
¶11.4.4 (1)	Data Capture; On-hook data transmission receivers shall be capable of receiving data in the format described in Technical Document TNA 102, Section 10, in both SDMF & MDMF message formats; <i>Complies Yes/No</i>	Yes/No				
(2)	If receiver is not capable of receiving data during all four DA codes, a warning notice shall be included clearly stating which DA codes device is compatible with; <i>Complies Yes/No</i>	Yes/No				
(3)	Receivers shall perform satisfactorily over zero, 3 km and 6 km artificial lines. In each case, test shall be carried out with and without a ringer built out to RN of 5, and ringer shall remain operational for all tests. <i>Complies Yes/No</i>	Yes/No				
(4)	All on-hook data messages containing corrupted data shall be discarded; <i>Complies Yes/No</i>	Yes/No				
¶11.4.6 (2)	Data Display; Where the display does not correspond exactly with the number to be called back, the need to insert prefix(es) for					

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Item	Mandatory Test Required	Test Result			Complies	
		Sample 1	Sample 2	Sample 3	YES	NO
	manual dialling shall be explained in the User Instructions (ref §5.6.5); <i>Complies Yes/No</i>	Yes/No				
¶11.4.7 (3)	Data Storage; If data storage is incorporated, the CLI device shall discard any corrupted data; <i>Complies Yes/No</i>	Yes/No				
¶11.4.8 (2)	Dial Back Considerations; Display units with no dial back facility shall be provided with clear instructions to users such that wrong numbers are minimised. This particularly applies to units which do not display precisely the digits to be dialled; <i>Complies Yes/No</i>	Yes/No				
12.0	PHYSICAL CONSTRUCTION & MODIFICATIONS					
¶12.2	Switches & Connectors; All connectors, switches, keys, relays, etc, shall function reliably & positively at all times; <i>Complies Yes/No</i>	Yes/No				
¶12.3 (1)	Modifications; Full details of all modifications carried out by applicant prior to testing shall be supplied to the Testing Laboratory and furnished with the application; <i>Complies Yes/No</i>	Yes/No				
(2) (3)	Full details of all modifications carried out in association with the Testing Laboratory to achieve compliance shall be recorded as part of the Test Report; <i>Complies Yes/No</i>	Yes/No				
¶12.4	Photographs;					

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		<i>Sample 1</i>	<i>Sample 2</i>	<i>Sample 3</i>	<i>YES</i>	<i>NO</i>
(a)	Detailed colour photographs shall be supplied with each application: Photographs should preferably be taken by the Testing Laboratory and included as part of the Test Report, or; <i>Complies Yes/No</i>	Yes/No				
(b)	If supplied by the applicant, photographs shall be verified by the Testing Laboratory; <i>Complies Yes/No</i>	Yes/No				
13.0	USER DOCUMENTATION					
13.2 (1)	Installation Instructions	Yes/No				
(2)	Operating Instructions	Yes/No				
(3)	Special Conditions All applicable warnings to be listed	List of warnings				

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<i>Item</i>	<i>Mandatory Test Required</i>	<i>Test Result</i>			<i>Complies</i>	
		<i>Sample 1</i>	<i>Sample 2</i>	<i>Sample 3</i>	<i>YES</i>	<i>NO</i>

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<i>Date:</i>	<i>Date:</i>