

# INTERNATIONAL BROADCAST STANDARDS TESTS



Correct alignment and monitoring of programme material is of paramount importance for broadcast engineers and organisations. 'International Broadcast Standards Tests' provides a convenient source of international reference and measurement signals.

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1 - W	Alian	mont	CIGI	210
1-8	Align	mem	SIUI	lais

9-17 System test signals

18-30 VU meter (IEC268-17) test signals

31-43 PPM meter (IEC268-10) generic test signals

44-49 PPM meter (IEC268-10) Type I specific test signals

50-57 PPM meter (IEC268-10) Type II specific test signals

58-67 Phase meter test signals

68-91 Loudness meter test signals

92-96 Peak/rms test signals

97-99 Other signals

All tracks digitally generated by Dr. John Emmett, BPR Ltd, except tracks 98-99 digitally recorded for Canford Audio by BBC Radio Production Resources:

Studio:

B15, BBC Broadcasting House (reverberation time 0.2s)

Microphone:

Neumann U87, cardioid setting

Reader:

Peter Donaldson

Track 98 Text by Washington Irving, edited by Simon Kahn Track 99 Shipping Forecast by permission of The Met.Office Mastered by *BITS & PIECES*, engineer Simon Kahn

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CANFORD

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02-598

## 25-321 CANFORD INTERNATIONAL BROADCAST STANDARDS TESTS CD

## TRACK LISTING

Alignment Tracks				
Alignment Tracks 1 1kHz -18dBFS	Line-up	(EBU R49)	L interrupted, R continuous	02:00
2 1kHz -20dBFS		(SMPTE RP-155)	2 meruped, R commuous	02:00
3 1kHz -14dBFS		(recording studios etc.)		02:00
4 1kHz -12dBFS	CD exchange alignm	-		02:00
5 1kHz -18dBFS	GLITS line-up		L&R different periods, see text	02:00
6 1kHz -18dBFS	_	Dual language line-up		02:00
(400Hz -18dBFS				
7 Pink noise		MPTE RP-155) 20Hz - 20kHz	z L&R non-coherent	02:00
8 Pink noise		BU/ITU) band limited	-3dB @ 200Hz, 5kHz, L&R non-coherent	02:00
System Test Tracks				
9 1kHz -18dBFS	ITU BS645 Alignme	ent Level (AL)		02:00
10 -9dBFS			AL+9dB), pulsed 80Hz, 1kHz, 5kHz, 10kHz	02:00
11 -10dBFS			AL+8dB), pulsed 80Hz, 1kHz, 5kHz, 10kHz	02:00
12 -30dBFS			3 1kHz, then sweeps 40Hz to 16kHz	02:00
13 80Hz 0dBFS	Pulses			00:30
14 80Hz +1dBFS	Pulses			00:30
15	Digital silence			01:00
16 1kHz -78dB FS	No dither		Alternating L/R at 1 second intervals	01:00
17	Line test sequence (F	EBU R27) repeated, (no ident)	L&R differ, see Figure 2	02:00
VU Tests, (IEC 60268-	17)			
18 1kHz -14dBFS	Reference level	(To set 0VU)		00:30
19 31.5Hz -14dBFS	LF check	(0VU)		00:10*
20 16kHz -14dBFS	HF check	(0VU)		00:10*
21 1kHz -11dBFS	Scale check	(+3VU)		00:10*
22 1kHz -17dBFS	Scale check	(-3VU)		00:10*
23 1kHz -24dBFS	Scale check	(-10VU)		00:10*
24 1kHz -34dBFS	Scale check	(-20VU)		00:10*
25 1kHz -14dBFS			265ms on, 1s off (see text)	00:10*
26 1kHz -14dBFS	Dynamic response		270ms on, 1s off (see text)	00:10*
27 1kHz -14dBFS	Dynamic response		330ms on, 1s off (see text)	00:10*
28 1kHz -14dBFS	Dynamic response		1s on, 300ms off	00:10*
29		positive phase, 0VU level		00:10*
30	IEC reversibility test	nagative phase, 0VU level		00:10*
PPM Tests (IEC 60268	3-10)			
31 1kHz -9dBFS	IEC reference level	(Type I scale = 0dB, Nordic	and IIb = $+9dB$ )	00:30
32 1kHz -10dBFS	IEC reference level	(Type IIa, BBC Scale = "6")		00:30
33 1kHz -18dBFS	Alignment Level	(Type $I = -9dB$ , Nordic and	IIb ="Test", BBC ="4")	00:10*
34 31.5Hz -18dB FS	Alignment Level	(Type $I = -9dB$ , Nordic and		00:10*
35 16kHz -18dBFS	Alignment Level	(Type $I = -9dB$ , Nordic and		00:10*
36 1kHz -6dBFS	Scale check	(Nordic and IIb = $+12dB$ , B		00:10³
37 1kHz -14dBFS		(Nordic and IIb = $+4dB$ , BE		00:10*
38 1kHz -22dBFS	Scale check	(Nordic and IIb = $-4dB$ , BB		00:10*
39 1kHz -26dBFS	Scale check	(Nordic and IIb = -8dB, BB		00:10*
40 1kHz -30dBFS		(Nordic and IIb = -12dB, B)	*	00:10*
41 1kHz -49dBFS		(Type I = $-40$ dB, Nordic = $-40$ dB, Nordic = $-40$ dB,		00:10*
42 -18dBFS 43 -18dBFS		t positive-phase, Alignment I t negative-phase, Alignment I		00:10 <sup>3</sup> 00:10 <sup>3</sup>
		5 1,		3
Specific to Type I Mete 44 80Hz -12dBFS			Interrupted for 1.70s every 5s	00:30
45 10kHz -12dBFS			10ms every 5s	00:30
46 10kHz -12dBFS			5ms every 5s (ITU-T test)	00:30
47 10kHz -12dBFS			3ms every 5s	00:30
48 10kHz -12dBFS	Tone bursts		0.4ms every 5s	00:30
49 5kHz	Tone bursts		Alternate -12dB/-2dB FS, 1.5ms every 3s	00:30
Specific to Type II Met	ers			
50 80Hz -6dBFS			Interrupted for 2.80s every 5s	00:30
51 10kHz -10dBFS			100ms every 5s	00:30
52 10kHz -10dBFS			10ms every 5s	00:30



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10kHz   -10dBFS   Tone bursts   5ms every 5s   0.0.30		_				
10kHz	53 10kHz -10dBFS	Tone bursts		5ms every 5s		00:30
Sichtz - JodBiotBist   Tome bursts   Alternate - 10dB/0dB FS   Sins every 3s   On:30				1.5ms every 5s		00:30
Phase Meter Tests   Selfate   40dBFS   Tome bursts   Sms every 5s   00:30	55 10kHz -10dBFS	Tone bursts		0.5ms every 5s		00:30
Section	56 5kHz-10dB/0dBF	S Tone bursts	Alternate -10dB/0dB FS	1.5ms every 3s		00:30
Section	57 5kHz -40dBFS	Tone bursts		5ms every 5s		00:30
S8 918.75Hz		2		•		
So 918.75Hz - 184BFS   Alternates - 187-384B FS   R lags 90 deg   00:20	Phase Meter Tests					
59 918.75Hz   -184BFS   Ratemates -18-384B FS   Rags 90 deg   00:20   61 918.75Hz   -184BFS   Ratemates -18-384B FS   Rags 135 deg   00:20   62 918.75Hz   -184BFS   Ratemates -18-384B FS   Rags 135 deg   00:20   63 918.75Hz   -184BFS   Ratemates -18-384B FS   Rags 180 deg   00:20   64 918.75Hz   -184BFS   Ratemates -18-384B FS   Rags 180 deg   00:20   65 918.75Hz   -184BFS   Ratemates -18-384B FS   Rags 180 deg   00:20   66 918.75Hz   -184BFS   Ratemates -18-384B FS   Rags 180 deg   00:20   66 918.75Hz   -184BFS   Ratemates -18-384B FS   Rads 45 deg   00:20   67 918.75Hz   -184BFS   Ratemates -18-384B FS   Rads 135 deg   00:20   68 18Hz   -184BFS   Ratemates -18-384B FS   Rads 135 deg   00:20   69 63Hz   -54BFS   04BLD   00:15   70 80Hz   -84BFS   04BLD   00:15   71 1 100Hz   -114BFS   04BLD   00:15   72 125Hz   -144BFS   04BLD   00:15   73 160Hz   -174BFS   04BLD   00:15   74 20Hz   -20BFS   04BLD   00:15   75 25Hz   -214BFS   04BLD   00:15   76 315Hz   -224BFS   04BLD   00:15   77 400Hz   -224BFS   04BLD   00:15   78 500Hz   -224BFS   04BLD   00:15   79 630Hz   -224BFS   04BLD   00:15   79 630Hz   -224BFS   04BLD   00:15   79 630Hz   -224BFS   04BLD   00:15   70 315Hz   -244BFS   04BLD   00:15   71 400Hz   -224BFS   04BLD   00:15   72 125HFS   04BLD   00:15   73 50Hz   -244BFS   04BLD   00:15   74 550Hz   -244BFS   04BLD   00:15   75 50Hz   -244BFS   04BLD   00:15   76 315Hz   -244BFS   04BLD   00:15   77 400Hz   -224BFS   04BLD   00:15   78 50Hz   -244BFS   04BLD   00:15   79 630Hz   -244BFS   04BLD   00:15   80 80Hz   -244BFS   04BLD   00:15   81 1k25Hz   -184BFS   04BLD   00:15   82 1k6Hz   -194BFS   04BLD   00:15   83 6k3Hz   -244BFS   04BLD   00:15   84 2k5Hz   -235BFS   04BLD   00:15   85 8k1Hz   -244BFS   04BLD   00:15   86 6k3Hz   -244BFS   04BLD   00:15   87 5k1Hz   -244BFS   04BLD   00:15   88 6k3Hz   -244BFS   04BLD   00:15   89 8kHz   -244BFS   04BLD   00:15   80 6k1Hz   -244BFS   04BLD	58 918.75Hz -18dBFS	R alternates -18/-386	dB FS	In phase		00:20
60 918.75Hz - 18dBFS R alternates - 187.38dB FS R lags 90 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R lags 135 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R lags 135 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R lags 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 45 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 45 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 90 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 90 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 187.38dB FS R leads 180 deg 00:20 fc 918.75Hz - 18dBFS R alternates - 180 fc 918.75Hz - 18dBFS R alternates - 180 fc 918.75Hz - 18dBFS R alternates - 180.25Hz - 180 fc 918.75Hz - 180 fc 918.75Hz - 18	59 918.75Hz -18dBFS	R alternates -18/-386	dB FS	_		
61 918.75Hz - 18dBFS R alternates - 18/-38dB FS R lags 135 deg 00:20 G3 918.75Hz - 18dBFS R alternates - 18/-38dB FS R lags 180 deg 00:20 G4 918.75Hz - 18dBFS R alternates - 18/-38dB FS R lags 180 deg 00:20 G4 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 45 deg 00:20 G5 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 45 deg 00:20 G6 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 45 deg 00:20 G6 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 135 deg 00:20 G6 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 135 deg 00:20 G6 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 135 deg 00:20 G6 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 180 deg 00:20 G6 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 180 deg 00:20 G6 918.75Hz - 18dBFS G4BLD G615 G3Hz - 5dBFS G4BLD G615 G3Hz - 17dBFS G4BLD G615 G3HZ		R alternates -18/-38d	dB FS			
Color   Colo	61 918.75Hz -18dBFS					
63 918.75Hz - 184BFS R alternates - 187-38dB FS In phase 00:20 65 918.75Hz - 184BFS R alternates - 187-38dB FS R leads 45 deg 00:20 66 918.75Hz - 184BFS R alternates - 187-38dB FS R leads 90 deg 00:20 67 918.75Hz - 184BFS R alternates - 187-38dB FS R leads 90 deg 00:20 67 918.75Hz - 184BFS R alternates - 187-38dB FS R leads 135 deg 00:20 70						
64 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 45 deg 00:20 65 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 90 deg 00:20 67 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 135 deg 00:20 67 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 180 deg 00:20						
65 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 90 deg 00.20 66 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 155 deg 00.20 7 918.75Hz - 18dBFS R alternates - 18/-38dB FS R leads 150 deg 00.20  Loudness Meter Tests (**Thames/TTC (ISO 226))  68 1kHz - 18dBFS Line up 0dBLD 00.15 69 63Hz - 5dBFS 0dBLD 00.15 70 80Hz - 8dBFS 0dBLD 00.15 71 100Hz - 11dBFS 0dBLD 00.15 71 100Hz - 11dBFS 0dBLD 00.15 72 125Hz - 14dBFS 0dBLD 00.15 73 160Hz - 17dBFS 0dBLD 00.15 74 200Hz - 20dBFS 0dBLD 00.15 75 250Hz - 21dBFS 0dBLD 00.15 76 315Hz-21.5dBFS 0dBLD 00.15 76 30Hz - 22dBFS 0dBLD 00.15 78 500Hz - 22dBFS 0dBLD 00.15 78 500Hz - 22dBFS 0dBLD 00.15 78 500Hz - 21dBFS 0dBLD 00.15 79 630Hz - 21dBFS 0dBLD 00.15 78 500Hz - 21dBFS 0dBLD 00.15 79 630Hz - 19dBFS 0dBLD 00.15 80 800Hz - 19dBFS 0dBLD 00.15 81 1k25Hz - 18dBFS 0dBLD 00.15 81 1k25Hz - 18dBFS 0dBLD 00.15 82 1k6Hz - 19dBFS 0dBLD 00.15 83 2kHz - 21dBFS 0dBLD 00.15 84 2k3Hz - 23dBFS 0dBLD 00.15 85 3k15Hz - 26dBFS 0dBLD 00.15 86 4kHz - 27dBFS 0dBLD 00.15 87 5kHz - 26dBFS 0dBLD 00.15 88 6k3Hz - 21dBFS 0dBLD 00.15 89 8kHz - 23dBFS 0dBLD 00.15 80 60Hz - 24dBFS 0dBLD 00.15 80 10kHz - 24dBFS 0dBLD 00.15 80 60Hz - 19dBFS 0dBLD 00.15 80 60Hz - 19dBFS 0dBLD 00.15 80 60Hz - 19dBFS 0dBLD 00.15 81 00Hz** - 18dBFS 0dBLD 00.15 81 00Hz** - 18dBFS 0dBLD 00.15 81 00Hz** - 18dBFS peak, RMS = 18dB FS, mean = -18dB FS 00.30 91 10kHz - 12dBFS 0dBLD 00.15 91 01kHz** - 18dBFS peak, RMS = 18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz** - 18dBFS peak, RMS = -18dB FS, mean = -24dB FS 00.30 91 10kHz**						
Feb   184.75Hz   184BFS   Ralemates - 184.38dB FS   Reads 135 deg   00:20						
Compage   Comp						
No.						
See	6/ 918./5HZ -18dBFS	R afternates -18/-380	1B FS	R leads 180 deg		00:20
See	Loudness Motor Tosts (	Thomas/ITC /ISO 224	5))			
69 63Hz -5dBFS 0dBLD 00:15 70 80Hz -8dFS 0dBLD 00:15 71 100Hz -11dBFS 0dBLD 00:15 72 125Hz -14dBFS 0dBLD 00:15 73 160Hz -17dBFS 0dBLD 00:15 73 160Hz -17dBFS 0dBLD 00:15 74 200Hz -20dBFS 0dBLD 00:15 75 250Hz -21dBFS 0dBLD 00:15 76 315Hz-21.5dBFS 0dBLD 00:15 77 400Hz -22dBFS 0dBLD 00:15 78 500Hz -22dBFS 0dBLD 00:15 78 500Hz -21dBFS 0dBLD 00:15 80 800Hz -19dBFS 0dBLD 00:15 80 800Hz -19dBFS 0dBLD 00:15 81 1k25Hz -18dBFS 0dBLD 00:15 82 1k6Hz -19dBFS 0dBLD 00:15 83 2kHz -21dBFS 0dBLD 00:15 84 2k5Hz-23.5dBFS 0dBLD 00:15 85 3k15Hz -26dBFS 0dBLD 00:15 86 4kHz -27dBFS 0dBLD 00:15 87 5kHz -26dBFS 0dBLD 00:15 88 6k3Hz -16dBFS 0dBLD 00:15 89 8kHz -15dBFS 0dBLD 00:15 90 10kHz -12dBFS 0dBL						00.15
70		Line up				
100Hz - 11dBFS						
125Hz - 14dBFS						
73						
74						
75   250Hz -21dBFS   0dBLD   00:15     76   315Hz-21,5dBFS   0dBLD   00:15     77   400Hz -22dBFS   0dBLD   00:15     78   500Hz -22dBFS   0dBLD   00:15     79   630Hz -21dBFS   0dBLD   00:15     80   800Hz -19dBFS   0dBLD   00:15     81   1k25Hz -18dBFS   0dBLD   00:15     82   1k6Hz -19dBFS   0dBLD   00:15     83   2kHz -21dBFS   0dBLD   00:15     84   2k5Hz-23,5dBFS   0dBLD   00:15     84   2k5Hz-23,5dBFS   0dBLD   00:15     85   3k15Hz -26dBFS   0dBLD   00:15     86   4kHz -27dBFS   0dBLD   00:15     87   5kHz -26dBFS   0dBLD   00:15     88   6k3Hz -21dBFS   0dBLD   00:15     98   8kHz -15dBFS   0dBLD   00:15     90   10kHz -12dBFS   0dBLD   00:15     90   10kHz -12dBFS   0dBLD   00:15     91   Pink noise   -24dB Mean   0dBLD   L&R non-coherent   00:15     92   100Hz**   -18dBFS peak, RMS = -18dB FS, mean = -24dB FS   00:30     94   100Hz**   -18dBFS peak, RMS = -21dB FS, mean = -24dB FS   00:30     95   100Hz**   -18dBFS peak, RMS = -21dB FS, mean = -24dB FS   00:30     96   Pink noise   18dBFS peak, RMS = -28dB FS, mean = -30dB FS   L&R non-coherent   00:30     96   Pink noise   18dBFS peak, RMS = -28dB FS, mean = -30dB FS   L&R non-coherent   00:30     97   440 Hz -18dBFS   Tuning "A"   02:00     98   Male speech, Prose, not limited   05:00						
76						
77						00:15
The color of the			0dBLD			00:15
79   630Hz - 21dBFS   0dBLD   00:15			0dBLD			00:15
80       800Hz - 19dBFS       0dBLD       00:15         81       1k25Hz - 18dBFS       0dBLD       00:15         82       1k6Hz - 19dBFS       0dBLD       00:15         83       2kHz - 21dBFS       0dBLD       00:15         84       2k5Hz - 23.5dBFS       0dBLD       00:15         85       3k15Hz - 26dBFS       0dBLD       00:15         86       4kHz - 27dBFS       0dBLD       00:15         87       5kHz - 26dBFS       0dBLD       00:15         88       6k3Hz - 21dBFS       0dBLD       00:15         89       8kHz - 15dBFS       0dBLD       00:15         90       10kHz - 12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -24dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -24dB FS, mean = -24dB FS       00:30         96       Pink noise       18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         Other Si	78 500Hz -22dBFS		0dBLD			00:15
81	79 630Hz -21dBFS		0dBLD			00:15
81	80 800Hz -19dBFS		0dBLD			
82       1k6Hz -19dBFS       0dBLD       00:15         83       2kHz -21dBFS       0dBLD       00:15         84       2k5Hz-23.5dBFS       0dBLD       00:15         85       3k15Hz -26dBFS       0dBLD       00:15         86       4kHz -27dBFS       0dBLD       00:15         87       5kHz -26dBFS       0dBLD       00:15         88       6k3Hz -21dBFS       0dBLD       00:15         89       8kHz -15dBFS       0dBLD       00:15         90       10kHz -12dBFS       0dBLD       00:15         91       Pin noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -9.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -9.2dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz -1	81 1k25Hz -18dBFS		0dBLD			
83       2kHz -21dBFS       0dBLD       00:15         84       2k5Hz-23.5dBFS       0dBLD       00:15         85       3k15Hz -26dBFS       0dBLD       00:15         86       4kHz -27dBFS       0dBLD       00:15         87       5kHz -26dBFS       0dBLD       00:15         88       6k3Hz -21dBFS       0dBLD       00:15         89       8kHz -15dBFS       0dBLD       00:15         90       10kHz -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz -18dBFS       Male speech, Prose, not limited       05:00 <td>82 1k6Hz -19dBFS</td> <td></td> <td>0dBLD</td> <td></td> <td></td> <td></td>	82 1k6Hz -19dBFS		0dBLD			
84       2k5Hz-23.5dBFS       0dBLD       00:15         85       3k15Hz       -26dBFS       0dBLD       00:15         86       4kHz       -27dBFS       0dBLD       00:15         87       5kHz       -26dBFS       0dBLD       00:15         88       6k3Hz       -21dBFS       0dBLD       00:15         89       8kHz       -15dBFS       0dBLD       00:15         90       10kHz       -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz -18dBFS       Male speech, Prose, not limited       05:00	83 2kHz -21dBFS					
85       3k15Hz       -26dBFS       0dBLD       00:15         86       4kHz       -27dBFS       0dBLD       00:15         87       5kHz       -26dBFS       0dBLD       00:15         88       6k3Hz       -21dBFS       0dBLD       00:15         89       8kHz       -15dBFS       0dBLD       00:15         90       10kHz       -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz - 18dBFS       Male speech, Prose, not limited       05:00						
86       4kHz       -27dBFS       0dBLD       00:15         87       5kHz       -26dBFS       0dBLD       00:15         88       6k3Hz       -21dBFS       0dBLD       00:15         89       8kHz       -15dBFS       0dBLD       00:15         90       10kHz       -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:30         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz       -18dBFS       Male speech, Prose, not limited       05:00						
87       5kHz       -26dBFS       0dBLD       00:15         88       6k3Hz       -21dBFS       0dBLD       00:15         89       8kHz       -15dBFS       0dBLD       00:15         90       10kHz       -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00						
88       6k3Hz       -21dBFS       0dBLD       00:15         89       8kHz       -15dBFS       0dBLD       00:15         90       10kHz       -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz       -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00						
89       8kHz -15dBFS       0dBLD       00:15         90       10kHz -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00						
90       10kHz       -12dBFS       0dBLD       00:15         91       Pink noise       -24dB Mean       0dBLD       L&R non-coherent       00:15         Peak/RMS Tests         92       100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93       100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94       100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95       100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96       Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97       440 Hz       -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00						
Peak/RMS Tests         Peak/RMS Tests           92 100Hz**         -18dBFS peak, RMS = -18dB FS, mean = -18dB FS         00:30           93 100Hz**         -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS         00:30           94 100Hz**         -18dBFS peak, RMS = -21dB FS, mean = -24dB FS         00:30           95 100Hz**         -18dBFS peak, RMS = -28dB FS, mean = -38dB FS         00:30           96 Pink noise         18dBFS true peak, mean = -30dB FS         L&R non-coherent         00:30           Other Signals           97 440 Hz -18dBFS         Tuning "A"         02:00           98         Male speech, Prose, not limited         05:00						
Peak/RMS Tests         92 100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93 100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94 100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95 100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96 Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97 440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00		24dR Mean		I &P non coherent		
92 100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93 100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94 100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95 100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96 Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97 440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00	91 FIIIK HOISE	-24db Mean	OUBLD	L&K Holl-colletellt		00:13
92 100Hz**       -18dBFS peak, RMS = -18dB FS, mean = -18dB FS       00:30         93 100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94 100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95 100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96 Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97 440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00	Peak/PMS Tests					
93 100Hz**       -18dBFS peak, RMS = -19.5dB FS, mean = -21dB FS       00:30         94 100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95 100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96 Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97 440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00		10dDEC	_ 10dD E0 10 ID	EC		00.20
94 100Hz**       -18dBFS peak, RMS = -21dB FS, mean = -24dB FS       00:30         95 100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96 Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97 440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00						
95 100Hz**       -18dBFS peak, RMS = -28dB FS, mean = -38dB FS       00:30         96 Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97 440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00						
96 Pink noise       18dBFS true peak, mean = -30dB FS       L&R non-coherent       00:30         Other Signals         97 440 Hz -18dBFS       Tuning "A"       02:00         98       Male speech, Prose, not limited       05:00						
Other Signals           97         440 Hz         -18dBFS         Tuning "A"         02:00           98         Male speech, Prose, not limited         05:00						
97 440 Hz -18dBFS Tuning "A" 02:00 98 Male speech, Prose, not limited 05:00	96 Pink noise	18dBFS true peak, n	nean = -30dB FS	L&R non-coherent		00:30
97 440 Hz -18dBFS Tuning "A" 02:00 98 Male speech, Prose, not limited 05:00						
97 440 Hz -18dBFS Tuning "A" 02:00 98 Male speech, Prose, not limited 05:00	Other Signals					
98 Male speech, Prose, not limited 05:00		Tuning "A"				02:00
			not limited			
os:00				MDI (AI (OJD)		
	77	maie speech, Shipp	ing forecast limited to UK	VIFL (AL+8UB)		05:00

All tracks have the same signal on left and right channels, unless otherwise stated. \*These tracks are 20 seconds in length on the DAT media.



<sup>\*\*110</sup>Hz on 48kHz-sampled media