

KVR Mix Challenge Statistics

Challenge: 04 (September 2014)
Revision: 06-10-2014

Genre: Ska / Punk
Song: Knattertones – Big Sunglasses

Entrant Name	Digital Max		Loudness					General Technical Statistics			Warnings
	True Peak (L / R)	dBTP max	RMS avg	RMS max	LRA	SLk (max)	DR (math)	SRC / Bit	Bit (true)	DC-Offset	
3ee	-4.24 dB / -3.76 dB	-3,76	-20,43	-17,64	+4.0 LU	-18.5 LUFS	16,6	44/16	16 Bits	-82.5 dB / -82.0 dB	
adam firegate	-2.84 dB / -2.82 dB	-2,82	-15,15	-11,51	+4.4 LU	-13.7 LUFS	12,3	44/24	24 Bits	-116.9 dB / -117.1 dB	
AnttiU	+0.68 dB / +0.87 dB	0,87	-9,10	-6,06	+3.1 LU	-6.6 LUFS	9,9	44/24	24 Bits	-74.0 dB / -69.6 dB	Clipping, prob. Premast. (Limiter at -0,1dB)
czoli	-2.11 dB / -2.07 dB	-2,07	-13,27	-10,10	+2.2 LU	-13.4 LUFS	11,2	44/24	24 Bits	-80.6 dB / -80.3 dB	
Doc Jon	-2.96 dB / -3.00 dB	-2,96	-17,45	-13,34	+4.1 LU	-15.2 LUFS	14,4	44/24	24 Bits	-96.7 dB / -76.4 dB	
dovstoy (chopen)	+0.36 dB / +0.22 dB	0,36	-10,76	-5,33	+7.6 LU	-7.9 LUFS	11,1	44/24	25 Bits	-44.2 dB / -44.2 dB	Clipping
E-dude	-7.60 dB / -6.51 dB	-6,51	-24,53	-19,28	+7.7 LU	-20.9 LUFS	18,0	44/24	23 Bits	-68.9 dB / -69.0 dB	
ErikMichael	-6.56 dB / -6.55 dB	-6,55	-20,36	-18,08	+3.7 LU	-17.8 LUFS	13,8	44/16	15 Bits	-∞ dB / -∞ dB	no preroll
Fritze	-3.33 dB / -3.36 dB	-3,33	-14,77	-11,51	+4.0 LU	-12.6 LUFS	11,4	44/24	24 Bits	-65.2 dB / -64.4 dB	
G_Liou	-2.50 dB / -3.11 dB	-2,50	-16,71	-12,64	+4.4 LU	-14.9 LUFS	14,2	44/24	24 Bits	-66.1 dB / -69.2 dB	
geroyannis	-3.00 dB / -3.01 dB	-3,00	-11,78	-9,09	+3.2 LU	-10.4 LUFS	8,7	44/24	24 Bits	-125.2 dB / -135.2 dB	insufficient preroll
Headphone	-2.49 dB / -2.54 dB	-2,49	-16,21	-13,21	+3.0 LU	-15.0 LUFS	13,7	44/24	24 Bits	-∞ dB / -∞ dB	
inHim (Aditya.inHim)	-2.60 dB / -2.88 dB	-2,60	-17,57	-13,67	+3.7 LU	-15.8 LUFS	14,9	44/16	16 Bits	-96.3 dB / -96.3 dB	
jhkennedy5	-0.78 dB / -0.52 dB	-0,52	-12,53	-9,56	+3.7 LU	-10.9 LUFS	12,0	44/16	16 Bits	-90.8 dB / -92.5 dB	
Matteo Schenkel (mschenkel)	-2.95 dB / -2.93 dB	-2,93	-13,97	-10,63	+3.3 LU	-12.4 LUFS	11,0	44/24	24 Bits	-108.7 dB / -110.7 dB	
MixedMind	-12.85 dB / -12.92 dB	-12,85	-23,54	-21,22	+2.9 LU	-21.4 LUFS	10,6	44/24	22 Bits	-98.0 dB / -98.9 dB	
mwaudioprod	-2.72 dB / -2.67 dB	-2,67	-17,98	-14,57	+4.5 LU	-15.7 LUFS	15,3	44/24	24 Bits	-78.4 dB / -78.9 dB	
NickGeorge	-2.88 dB / -3.80 dB	-2,88	-18,01	-13,42	+4.0 LU	-16.5 LUFS	15,1	44/24	24 Bits	-∞ dB / -∞ dB	
phonic	-4.18 dB / -3.69 dB	-3,69	-20,21	-15,89	+5.7 LU	-17.4 LUFS	16,5	44/24	24 Bits	-∞ dB / -∞ dB	
Pulse Width Modulation	-3.60 dB / -3.49 dB	-3,49	-19,19	-14,23	+4.3 LU	-17.5 LUFS	15,7	44/16	16 Bits	-119.5 dB / -119.8 dB	
radio12	-3.14 dB / -0.05 dB	-0,05	-17,82	-14,64	+4.0 LU	-16.4 LUFS	17,7	44/24	24 Bits	-105.0 dB / -∞ dB	click noise at beginning
Roberto Ortenzi (piranha81)	-3.16 dB / -2.40 dB	-2,40	-15,79	-13,11	+4.3 LU	-13.5 LUFS	13,3	44/24	24 Bits	-133.8 dB / -122.2 dB	
Sir Ken	-3.94 dB / -3.89 dB	-3,89	-20,21	-14,62	+6.8 LU	-17.3 LUFS	16,3	44/24	24 Bits	-88.7 dB / -88.7 dB	
Skala	-8.71 dB / -8.51 dB	-8,51	-25,52	-19,96	+7.2 LU	-21.9 LUFS	17,0	44/16	15 Bits	-125.5 dB / -126.8 dB	
tgraph	-2.99 dB / -2.88 dB	-2,88	-18,21	-14,22	+5.3 LU	-14.8 LUFS	15,3	44/24	24 Bits	-∞ dB / -∞ dB	
vladg	-2.66 dB / -2.96 dB	-2,66	-20,77	-16,85	+5.2 LU	-18.6 LUFS	18,1	44/24	24 Bits	-84.8 dB / -85.7 dB	no preroll
westcoast2	-4.45 dB / -3.70 dB	-3,70	-20,18	-15,19	+4.9 LU	-17.4 LUFS	16,4	44/24	24 Bits	-97.8 dB / -97.8 dB	
Yeager	-3.31 dB / -4.52 dB	-3,31	-18,47	-14,78	+4.0 LU	-16.9 LUFS	15,1	44/32	32 Bits	-98.8 dB / -98.8 dB	

LEGEND:

Digital max is in True Peak (dBTP) // Loudness is measured with a RMS offline meter (unweighted, 300ms timeframe) and an ITU-R BS.1770-x meter (LRA and SLk)
RMS values are in dBFS, Loudness Range is in LU, Short Term Loudness (SLk) in LUFS // Dynamic Range (DR) is a mathematical value (rounded down) of Loudness Avg to Digital True Peak Max
Reference Level is a guess-timation - confirmed reference level in green
Measurements taken with Wavelab 8.0.4's host internal analysis tool // measured prior to loudness normalization process

Color Codes (warnings and pointing out possible issues) Digital Clipping LRA <3 (maybe too dense mix) DR <10 (indication for low transients or mix bus treatment)
 too hot max RMS (<10dB) LRA >7 (maybe too dynamic mix)

Guessed ideal LRA for this mix somewhere between +3,5 LRA to +6 LRA due to the nature of this song (read: value is program dependent)