Mixed Model Analysis

Model Dimension^a

		Number of Levels	Covariance Structure	Number of Parameters
Fixed Effects	Intercept	1		1
	SNR	3		2
	Program	6		5
	Noise_Type	2		1
	SNR * Program	18		10
	SNR * Noise_Type	6		2
	Program * Noise_Type	12		5
	SNR * Program * Noise_Type	36		10
Random Effects	Audiogram	4	Variance Components	1
Residual				1
Total		88		38

a. Dependent Variable: pMOS.

Information Criteria^a

-2 Restricted Log Likelihood	480.01544573
Akaike's Information Criterion (AIC)	484.01544573
Hurvich and Tsai's Criterion (AICC)	484.02622740
Bozdogan's Criterion (CAIC)	496.05045801
Schwarz's Bayesian Criterion (BIC)	494.05045801

The information criteria are displayed in smaller-is-better form.

Coefficients of Determination

Pseudo-R Square Measures	Marginal	.583
	Conditional	.587

a. Dependent Variable: pMOS.

Intraclass Correlation Coefficients

Overall ICCs	Adjusted	.010
	Conditional	.004

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	3.003	13169.327	<.001
SNR	2	1113.000	519.078	<.001
Program	5	1113.000	92.467	<.001
Noise_Type	1	1113.000	26.640	<.001
SNR * Program	10	1113.000	1.590	.104
SNR * Noise_Type	2	1113.000	21.992	<.001
Program * Noise_Type	5	1113.000	7.149	<.001
SNR * Program * Noise_Type	10	1113.000	.364	.962

a. Dependent Variable: pMOS.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error
Residual	.080	.003
Audiogram Variance	.001	.001

a. Dependent Variable: pMOS.

Estimated Marginal Means

1. SNR

Estimates^a

				95% Confide	ence Interval
SNR	Mean	Std. Error	df	Lower Bound	Upper Bound
-5	1.586	.020	6.828	1.537	1.634
0	1.870	.020	6.828	1.821	1.918
5	2.242	.020	6.828	2.194	2.291

a. Dependent Variable: pMOS.

		Mean Difference				95% Confiden Differ	ce Interval for ence ^c
(I) SNR	(J) SNR	(I-J)	Std. Error	df	Sig. ^c	Lower Bound	Upper Bound
-5	0	284 [*]	.020	1113.000	<.001	333	235
	5	657 [*]	.020	1113.000	<.001	706	608
0	-5	.284*	.020	1113.000	<.001	.235	.333
	5	373 [*]	.020	1113.000	<.001	422	324
5	-5	.657 [*]	.020	1113.000	<.001	.608	.706
	0	.373*	.020	1113.000	<.001	.324	.422

Based on estimated marginal means

- *. The mean difference is significant at the .05 level.
- a. Dependent Variable: pMOS.
- c. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests^a

2	1113.000	519.078	<.001
Numerator df	Denominator df	F	Sig.

The F tests the effect of SNR. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Dependent Variable: pMOS.

2. Program

Estimates^a

				95% Confidence Interval	
Program	Mean	Std. Error	df	Lower Bound	Upper Bound
No Processing	1.686	.025	15.420	1.633	1.739
Beam	1.806	.025	15.420	1.753	1.859
Beam + NoiseBlock	1.862	.025	15.420	1.809	1.915
DNN	1.979	.025	15.420	1.926	2.032
NoiseBlock	1.811	.025	15.420	1.758	1.864
Beam + DNN	2.251	.025	15.420	2.198	2.304

a. Dependent Variable: pMOS.

(I) D	(1) 5	Mean Difference	Otal Faran	-16	O: C
(I) Program	(J) Program	(I-J)	Std. Error	df	Sig. ^c
No Processing	Beam	119 [*]	.029	1113.000	<.001
	Beam + NoiseBlock	176 [*]	.029	1113.000	<.001
	DNN	293	.029	1113.000	<.001
	NoiseBlock	125 [*]	.029	1113.000	<.001
	Beam + DNN	564 [*]	.029	1113.000	<.001
Beam	No Processing	.119 [*]	.029	1113.000	<.001
	Beam + NoiseBlock	056	.029	1113.000	.769
	DNN	173 [*]	.029	1113.000	<.001
	NoiseBlock	005	.029	1113.000	1.000
	Beam + DNN	445 [*]	.029	1113.000	<.001
Beam + NoiseBlock	No Processing	.176 [*]	.029	1113.000	<.001
	Beam	.056	.029	1113.000	.769
	DNN	117 [*]	.029	1113.000	<.001
	NoiseBlock	.051	.029	1113.000	1.000
	Beam + DNN	389 [*]	.029	1113.000	<.001
DNN	No Processing	.293 [*]	.029	1113.000	<.001
	Beam	.173*	.029	1113.000	<.001
	Beam + NoiseBlock	.117*	.029	1113.000	<.001
	NoiseBlock	.168 [*]	.029	1113.000	<.001
	Beam + DNN	272 [*]	.029	1113.000	<.001
NoiseBlock	No Processing	.125 [*]	.029	1113.000	<.001
	Beam	.005	.029	1113.000	1.000
	Beam + NoiseBlock	051	.029	1113.000	1.000
	DNN	168 [*]	.029	1113.000	<.001
	Beam + DNN	440 [*]	.029	1113.000	<.001
Beam + DNN	No Processing	.564 [*]	.029	1113.000	<.001
	Beam	.445 [*]	.029	1113.000	<.001
	Beam + NoiseBlock	.389*	.029	1113.000	<.001
	DNN	.272*	.029	1113.000	<.001
	NoiseBlock	.440 [*]	.029	1113.000	<.001

95% Confidence Interval for Difference^c

(I) Program	(J) Program	Lower Bound	Upper Bound
No Processing	Beam	204	034
	Beam + NoiseBlock	261	091
	DNN	378	208
	NoiseBlock	210	040
	Beam + DNN	649	479
Beam	No Processing	.034	.204
	Beam + NoiseBlock	141	.029
	DNN	258	088
	NoiseBlock	090	.080
	Beam + DNN	530	360
Beam + NoiseBlock	No Processing	.091	.261
	Beam	029	.141
	DNN	202	032
	NoiseBlock	034	.136
	Beam + DNN	474	304
DNN	No Processing	.208	.378
	Beam	.088	.258
	Beam + NoiseBlock	.032	.202
	NoiseBlock	.083	.253
	Beam + DNN	357	187
NoiseBlock	No Processing	.040	.210
	Beam	080	.090
	Beam + NoiseBlock	136	.034
	DNN	253	083
	Beam + DNN	525	355
Beam + DNN	No Processing	.479	.649
	Beam	.360	.530
	Beam + NoiseBlock	.304	.474
	DNN	.187	.357
	NoiseBlock	.355	.525

Based on estimated marginal means

- $^{\star}.$ The mean difference is significant at the .05 level.
- a. Dependent Variable: pMOS.
- c. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests^a

Numaratar df	Denominator of	_	Cia
Numerator of	Denominator df	Г	Sig.
5	1113.000	92.467	<.001

The F tests the effect of Program. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Dependent Variable: pMOS.

3. Noise_Type

Estimates^a

				95% Confidence Interval		
Noise_Type	Mean	Std. Error	df	Lower Bound	Upper Bound	
SSN	1.942	.019	4.723	1.894	1.991	
Babble	1.856	.019	4.723	1.808	1.905	

a. Dependent Variable: pMOS.

Pairwise Comparisons^a

		Mean Difference				95% Confidence Interval for ^c
(I) Noise_Type	(J) Noise_Type	(I-J)	Std. Error	df	Sig. ^c	Lower Bound
SSN	Babble	.086*	.017	1113.000	<.001	.053
Babble	SSN	086 [*]	.017	1113.000	<.001	119

Pairwise Comparisons^a

95% Confidence Interval for ^c...

(I) Noise_Type	(J) Noise_Type	Upper Bound	
SSN	Babble	.119	
Babble	SSN	053	

Based on estimated marginal means

- *. The mean difference is significant at the .05 level.
- a. Dependent Variable: pMOS.
- c. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests^a

1	1113.000	26.640	<.001
Numerator df	Denominator df	F	Sig.

The F tests the effect of Noise_Type. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Dependent Variable: pMOS.

4. SNR * Program

Estimates^a

Estimates							
					95% Confide	ence Interval	
SNR	Program	Mean	Std. Error	df	Lower Bound	Upper Bound	
-5	No Processing	1.442	.038	80.948	1.366	1.518	
	Beam	1.499	.038	80.948	1.423	1.575	
	Beam + NoiseBlock	1.548	.038	80.948	1.472	1.624	
	DNN	1.663	.038	80.948	1.587	1.738	
	NoiseBlock	1.507	.038	80.948	1.431	1.583	
	Beam + DNN	1.856	.038	80.948	1.780	1.931	
0	No Processing	1.652	.038	80.948	1.576	1.728	
	Beam	1.773	.038	80.948	1.697	1.849	
	Beam + NoiseBlock	1.834	.038	80.948	1.758	1.910	
	DNN	1.936	.038	80.948	1.860	2.012	
	NoiseBlock	1.775	.038	80.948	1.699	1.851	
	Beam + DNN	2.249	.038	80.948	2.173	2.325	
5	No Processing	1.965	.038	80.948	1.889	2.041	
	Beam	2.146	.038	80.948	2.070	2.222	
	Beam + NoiseBlock	2.205	.038	80.948	2.129	2.281	
	DNN	2.338	.038	80.948	2.262	2.414	
	NoiseBlock	2.152	.038	80.948	2.076	2.228	
	Beam + DNN	2.648	.038	80.948	2.572	2.724	

a. Dependent Variable: pMOS.

SNR	(I) Program	(J) Program	Mean Difference (I-J)	Std. Error	df	Sig. ^c
-5	No Processing	Beam	058	.050	1113.000	1.000
-5	140 1 100000ing	Beam + NoiseBlock	107	.050	1113.000	.501
		DNN	221 [*]	.050	1113.000	<.001
		NoiseBlock	065	.050	1113.000	1.000
		Beam + DNN	414 [*]	.050	1113.000	<.001
	Beam	No Processing	.058	.050	1113.000	1.000
		Beam + NoiseBlock	049	.050	1113.000	1.000
		DNN	163 [*]	.050	1113.000	.017
		NoiseBlock	008	.050	1113.000	1.000
		Beam + DNN	356 [*]	.050	1113.000	<.001
	Beam + NoiseBlock	No Processing	.107	.050	1113.000	.501
		Beam	.049	.050	1113.000	1.000
		DNN	114	.050	1113.000	.343
		NoiseBlock	.041	.050	1113.000	1.000
		Beam + DNN	307 [*]	.050	1113.000	<.001
	DNN	No Processing	.221*	.050	1113.000	<.001
		Beam	.163 [*]	.050	1113.000	.017
		Beam + NoiseBlock	.114	.050	1113.000	.343
		NoiseBlock	.155 [*]	.050	1113.000	.029
		Beam + DNN	193 [*]	.050	1113.000	.002
	NoiseBlock	No Processing	.065	.050	1113.000	1.000
		Beam	.008	.050	1113.000	1.000
		Beam + NoiseBlock	041	.050	1113.000	1.000
		DNN	155 [*]	.050	1113.000	.029
		Beam + DNN	348 [*]	.050	1113.000	<.001
	Beam + DNN	No Processing	.414*	.050	1113.000	<.001
		Beam	.356 [*]	.050	1113.000	<.001
		Beam + NoiseBlock	.307*	.050	1113.000	<.001
		DNN	.193*	.050	1113.000	.002
		NoiseBlock	.348*	.050	1113.000	<.001
0	No Processing	Beam	121	.050	1113.000	.243
		Beam + NoiseBlock	182 [*]	.050	1113.000	.004
		DNN	284 [*]	.050	1113.000	<.001
		NoiseBlock	123	.050	1113.000	.218
		Beam + DNN	597 [*]	.050	1113.000	<.001

95% Confidence Interval for Difference^c

SNR	(I) Program	(J) Program	Lower Bound	Upper Bound
-5	No Processing	Beam	205	.090
		Beam + NoiseBlock	254	.041
		DNN	368	073
		NoiseBlock	213	.082
		Beam + DNN	561	266
	Beam	No Processing	090	.205
		Beam + NoiseBlock	196	.098
		DNN	310	016
		NoiseBlock	155	.139
		Beam + DNN	503	209
	Beam + NoiseBlock	No Processing	041	.254
		Beam	098	.196
		DNN	261	.033
		NoiseBlock	106	.189
		Beam + DNN	454	160
	DNN	No Processing	.073	.368
		Beam	.016	.310
		Beam + NoiseBlock	033	.261
		NoiseBlock	.008	.303
		Beam + DNN	340	046
	NoiseBlock	No Processing	082	.213
		Beam	139	.155
		Beam + NoiseBlock	189	.106
		DNN	303	008
		Beam + DNN	496	201
	Beam + DNN	No Processing	.266	.561
		Beam	.209	.503
		Beam + NoiseBlock	.160	.454
		DNN	.046	.340
		NoiseBlock	.201	.496
0	No Processing	Beam	268	.027
		Beam + NoiseBlock	329	034
		DNN	431	137
		NoiseBlock	270	.025
		Beam + DNN	744	450

CNID	(I) Dro gross	(1) Drawnana	Mean Difference (I-J)	Std. Error	df	Sig. ^c
SNR	(I) Program Beam	(J) Program No Processing	.121	.050	1113.000	.243
	Dealli	Beam + NoiseBlock	061	.050	1113.000	1.000
		DNN	164 [*]	.050	1113.000	.017
		NoiseBlock	002	.050	1113.000	1.000
		Beam + DNN	476 [*]	.050	1113.000	<.001
	Beam + NoiseBlock	No Processing	.182 [*]	.050	1113.000	.004
		Beam	.061	.050	1113.000	1.000
		DNN	103	.050	1113.000	.611
		NoiseBlock	.059	.050	1113.000	1.000
		Beam + DNN	415 [*]	.050	1113.000	<.001
	DNN	No Processing	.284*	.050	1113.000	<.001
		Beam	.164*	.050	1113.000	.017
		Beam + NoiseBlock	.103	.050	1113.000	.611
		NoiseBlock	.162*	.050	1113.000	.019
		Beam + DNN	313 [*]	.050	1113.000	<.001
	NoiseBlock	No Processing	.123	.050	1113.000	.218
		Beam	.002	.050	1113.000	1.000
		Beam + NoiseBlock	059	.050	1113.000	1.000
		DNN	162 [*]	.050	1113.000	.019
		Beam + DNN	474 [*]	.050	1113.000	<.001
	Beam + DNN	No Processing	.597*	.050	1113.000	<.001
		Beam	.476 [*]	.050	1113.000	<.001
		Beam + NoiseBlock	.415 [*]	.050	1113.000	<.001
		DNN	.313 [*]	.050	1113.000	<.001
		NoiseBlock	.474*	.050	1113.000	<.001
5	No Processing	Beam	180 [*]	.050	1113.000	.005
		Beam + NoiseBlock	239 [*]	.050	1113.000	<.001
		DNN	373 [*]	.050	1113.000	<.001
		NoiseBlock	187 [*]	.050	1113.000	.003
		Beam + DNN	683 [*]	.050	1113.000	<.001
	Beam	No Processing	.180*	.050	1113.000	.005
		Beam + NoiseBlock	059	.050	1113.000	1.000
		DNN	193 [*]	.050	1113.000	.002
		NoiseBlock	006	.050	1113.000	1.000
		Beam + DNN	502 [*]	.050	1113.000	<.001

95% Confidence Interval for Difference^c

		=	Dillei	
SNR	(I) Program	(J) Program	Lower Bound	Upper Bound
	Beam	No Processing	027	.268
		Beam + NoiseBlock	208	.086
		DNN	311	016
		NoiseBlock	149	.145
		Beam + DNN	624	329
	Beam + NoiseBlock	No Processing	.034	.329
		Beam	086	.208
		DNN	250	.045
		NoiseBlock	088	.206
		Beam + DNN	562	268
	DNN	No Processing	.137	.431
		Beam	.016	.311
		Beam + NoiseBlock	045	.250
		NoiseBlock	.014	.309
		Beam + DNN	460	165
	NoiseBlock	No Processing	025	.270
		Beam	145	.149
		Beam + NoiseBlock	206	.088
		DNN	309	014
		Beam + DNN	622	327
	Beam + DNN	No Processing	.450	.744
		Beam	.329	.624
		Beam + NoiseBlock	.268	.562
		DNN	.165	.460
		NoiseBlock	.327	.622
5	No Processing	Beam	328	033
		Beam + NoiseBlock	387	092
		DNN	520	226
		NoiseBlock	334	039
		Beam + DNN	830	535
	Beam	No Processing	.033	.328
		Beam + NoiseBlock	206	.088
		DNN	340	045
		NoiseBlock	154	.141
		Beam + DNN	650	355

			5			
SNR	(I) Program	(J) Program	Mean Difference (I-J)	Std. Error	df	Sig. ^c
	Beam + NoiseBlock	No Processing	.239 [*]	.050	1113.000	<.001
		Beam	.059	.050	1113.000	1.000
		DNN	134	.050	1113.000	.116
		NoiseBlock	.053	.050	1113.000	1.000
		Beam + DNN	443 [*]	.050	1113.000	<.001
	DNN	No Processing	.373*	.050	1113.000	<.001
		Beam	.193 [*]	.050	1113.000	.002
		Beam + NoiseBlock	.134	.050	1113.000	.116
		NoiseBlock	.186 [*]	.050	1113.000	.003
		Beam + DNN	310 [*]	.050	1113.000	<.001
	NoiseBlock	No Processing	.187*	.050	1113.000	.003
		Beam	.006	.050	1113.000	1.000
		Beam + NoiseBlock	053	.050	1113.000	1.000
		DNN	186 [*]	.050	1113.000	.003
		Beam + DNN	496 [*]	.050	1113.000	<.001
	Beam + DNN	No Processing	.683 [*]	.050	1113.000	<.001
		Beam	.502 [*]	.050	1113.000	<.001
		Beam + NoiseBlock	.443*	.050	1113.000	<.001
		DNN	.310*	.050	1113.000	<.001
		NoiseBlock	.496 [*]	.050	1113.000	<.001

95% Confidence Interval for Difference^c

SNR	(I) Program	(J) Program	Lower Bound	Upper Bound
	Beam + NoiseBlock	No Processing	.092	.387
		Beam	088	.206
		DNN	281	.014
		NoiseBlock	095	.200
		Beam + DNN	591	296
	DNN	No Processing	.226	.520
		Beam	.045	.340
		Beam + NoiseBlock	014	.281
		NoiseBlock	.039	.334
		Beam + DNN	457	163
	NoiseBlock	No Processing	.039	.334
		Beam	141	.154
		Beam + NoiseBlock	200	.095
		DNN	334	039
		Beam + DNN	643	349
	Beam + DNN	No Processing	.535	.830
		Beam	.355	.650
		Beam + NoiseBlock	.296	.591
		DNN	.163	.457
		NoiseBlock	.349	.643

Based on estimated marginal means

- *. The mean difference is significant at the .05 level.
- a. Dependent Variable: pMOS.
- c. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests^a

SNR	Numerator df	Denominator df	F	Sig.
-5	5	1113.000	18.263	<.001
0	5	1113.000	34.378	<.001
5	5	1113.000	43.006	<.001

Each F tests the simple effects of Program within each level combination of the other effects shown. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Dependent Variable: pMOS.

5. SNR * Noise_Type^a

					95% Confidence Interval	
SNR	Noise_Type	Mean	Std. Error	df	Lower Bound	Upper Bound
-5	SSN	1.561	.025	15.420	1.508	1.614
	Babble	1.611	.025	15.420	1.558	1.664
0	SSN	1.913	.025	15.420	1.860	1.967
	Babble	1.826	.025	15.420	1.773	1.879
5	SSN	2.353	.025	15.420	2.300	2.406
	Babble	2.132	.025	15.420	2.079	2.185

a. Dependent Variable: pMOS.

6. Program * Noise_Type

Estimates^a

					95% Confide	ence Interval
Program	Noise_Type	Mean	Std. Error	df	Lower Bound	Upper Bound
No Processing	SSN	1.702	.032	42.378	1.637	1.767
	Babble	1.671	.032	42.378	1.606	1.736
Beam	SSN	1.788	.032	42.378	1.723	1.853
	Babble	1.824	.032	42.378	1.758	1.889
Beam + NoiseBlock	SSN	1.859	.032	42.378	1.794	1.924
	Babble	1.865	.032	42.378	1.800	1.931
DNN	SSN	2.083	.032	42.378	2.018	2.148
	Babble	1.875	.032	42.378	1.810	1.940
NoiseBlock	SSN	1.860	.032	42.378	1.795	1.925
	Babble	1.762	.032	42.378	1.697	1.827
Beam + DNN	SSN	2.362	.032	42.378	2.297	2.427
	Babble	2.140	.032	42.378	2.075	2.205

a. Dependent Variable: pMOS.

Noise_Type	(I) Program	(J) Program		Std. Error	df
SSN	No Processing	Beam	` '	.041	1113.000
	ŭ	Beam + NoiseBlock	157 [*]	.041	1113.000
		DNN	381 [*]	.041	1113.000
		NoiseBlock	158 [*]	.041	1113.000
		Beam + DNN	660 [*]	.041	1113
	Beam	No Processing	.086	.041	1113.000
		Beam	.041	1113.000	
		DNN	295 [*]	.041	1113.000
		NoiseBlock	072	.041	1113.000
		(J) Program	.041	1113	
	Beam + NoiseBlock	No Processing	.157*	.041	1113.000
		Beam	.071	.041	1113.000
		DNN	224*	.041	1113.000
		NoiseBlock	001	.041	1113.000
		Beam + DNN	503 [*]	.041	1113
	DNN	No Processing	.381*	.041	1113.000
		Beam	.295 [*]	.041	1113.000
		Beam + NoiseBlock	.224*	.041	1113.000
		NoiseBlock	.223*	.041	1113.000
		Beam + DNN	279 [*]	.041	1113
	NoiseBlock	No Processing	.158 [*]	.041	1113.000
		Beam	.072	.041	1113.000
		Beam + NoiseBlock	.001	.041	1113.000
		DNN	223 [*]	.041	1113.000
		Beam + DNN	502 [*]	.041	1113
	Beam + DNN	No Processing	.660 [*]	.041	1113
		Beam	.574 [*]	.041	1113
		Beam + NoiseBlock	.503*	.041	1113
		DNN	.279*	.041	1113
		NoiseBlock	.502 [*]	.041	1113
Babble	No Processing	Beam	153 [*]	.041	1113.000
		Beam + NoiseBlock	194 [*]	.041	1113.000
		DNN	204 [*]	.041	1113.000
		NoiseBlock	091	.041	1113.000
		Beam + DNN	469 [*]	.041	1113.000

				95% Confiden Differe	
Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound	Upper Bound
SSN	No Processing	Beam	.521	207	.034
		Beam + NoiseBlock	.002	278	037
		DNN	<.001	501	261
		NoiseBlock	.002	279	038
		Beam + DNN	<.001	780	540
	Beam	No Processing	.521	034	.207
		Beam + NoiseBlock	1.000	191	.049
		DNN	<.001	415	174
		NoiseBlock	1.000	192	.048
		Beam + DNN	<.001	694	453
	Beam + NoiseBlock	No Processing	.002	.037	.278
		Beam	1.000	049	.191
		DNN	<.001	344	104
		NoiseBlock	1.000	121	.119
		Beam + DNN	<.001	623	383
	DNN	No Processing	<.001	.261	.501
		Beam	<.001	.174	.415
		Beam + NoiseBlock	<.001	.104	.344
		NoiseBlock	<.001	.102	.343
		Beam + DNN	<.001	399	159
	NoiseBlock	No Processing	.002	.038	.279
		Beam	1.000	048	.192
		Beam + NoiseBlock	1.000	119	.121
		DNN	<.001	343	102
		Beam + DNN	<.001	622	381
	Beam + DNN	No Processing	<.001	.540	.780
		Beam	<.001	.453	.694
		Beam + NoiseBlock	<.001	.383	.623
		DNN	<.001	.159	.399
		NoiseBlock	<.001	.381	.622
Babble	No Processing	Beam	.003	273	032
	Ü	Beam + NoiseBlock	<.001	315	074
		DNN	<.001	324	084
		NoiseBlock	.389	211	.029
		Beam + DNN	<.001	589	349

Noise_Type	(I) Program	(J) Program	Mean Difference (I-J)	Std. Error	df
TVOISC_T ypc	Beam	No Processing	.153*	.041	1113.000
		Beam + NoiseBlock	042	.041	1113.000
		DNN	052	.041	1113.000
		NoiseBlock	.061	.041	1113.000
		Beam + DNN	316 [*]	.041	1113.000
	Beam + NoiseBlock	No Processing	.194*	.041	1113.000
		Beam	.042	.041	1113.000
		DNN	010	.041	1113.000
		NoiseBlock	.103	.041	1113.000
		Beam + DNN	274 [*]	.041	1113.000
	DNN	No Processing	.204*	.041	1113.000
		Beam	.052	.041	1113.000
		Beam + NoiseBlock	.010	.041	1113.000
		NoiseBlock	.113	.041	1113.000
		Beam + DNN	265 [*]	.041	1113.000
	NoiseBlock	No Processing	.091	.041	1113.000
		Beam	061	.041	1113.000
		Beam + NoiseBlock	103	.041	1113.000
		DNN	113	.041	1113.000
		Beam + DNN	378 [*]	.041	1113.000
	Beam + DNN	No Processing	.469 [*]	.041	1113.000
		Beam	.316 [*]	.041	1113.000
		Beam + NoiseBlock	.274*	.041	1113.000
		DNN	.265 [*]	.041	1113.000
		NoiseBlock	.378 [*]	.041	1113.000

				95% Confiden Differ	ce Interval for ence ^c
Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound	Upper Bound
	Beam	No Processing	.003	.032	.273
		Beam + NoiseBlock	1.000	162	.078
		DNN	1.000	172	.069
		NoiseBlock	1.000	059	.182
		Beam + DNN	<.001	437	196
	Beam + NoiseBlock	No Processing	<.001	.074	.315
		Beam	1.000	078	.162
		DNN	1.000	130	.111
		NoiseBlock	.175	017	.224
		Beam + DNN	<.001	395	154
	DNN	No Processing	<.001	.084	.324
		Beam	1.000	069	.172
		Beam + NoiseBlock	1.000	111	.130
		NoiseBlock	.087	007	.233
		Beam + DNN	<.001	385	144
	NoiseBlock	No Processing	.389	029	.211
		Beam	1.000	182	.059
		Beam + NoiseBlock	.175	224	.017
		DNN	.087	233	.007
		Beam + DNN	<.001	498	257
	Beam + DNN	No Processing	<.001	.349	.589
		Beam	<.001	.196	.437
		Beam + NoiseBlock	<.001	.154	.395
		DNN	<.001	.144	.385
		NoiseBlock	<.001	.257	.498

Based on estimated marginal means

- $^{\star}.$ The mean difference is significant at the .05 level.
- a. Dependent Variable: pMOS.
- c. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests^a

Noise_Type	Numerator df	Denominator df	F	Sig.
SSN	5	1113.000	69.662	<.001
Babble	5	1113.000	29.954	<.001

Each F tests the simple effects of Program within each level combination of the other effects shown. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Dependent Variable: pMOS.

7. SNR * Program * Noise_Type

Estimates^a

						95%
SNR	Program	Noise_Type	Mean	Std. Error	df	Lower Bound
-5	No Processing	SSN	1.379	.052	242.350	1.277
		Babble	1.504	.052	242.350	1.402
	Beam	SSN	1.439	.052	242.350	1.337
		Babble	1.560	.052	242.350	1.457
	Beam + NoiseBlock	SSN	1.468	.052	242.350	1.365
		Babble	1.629	.052	242.350	1.527
	DNN	SSN	1.681	.052	242.350	1.578
		Babble	1.644	.052	242.350	1.542
	NoiseBlock	SSN	1.472	.052	242.350	1.369
		Babble	1.542	.052	242.350	1.440
	Beam + DNN	SSN	1.926	.052	242.350	1.823
		Babble	1.785	.052	242.350	1.683
0	No Processing	SSN	1.665	.052	242.350	1.563
		Babble	1.639	.052	242.350	1.537
	Beam	SSN	1.763	.052	242.350	1.661
		Babble	1.782	.052	242.350	1.680
	Beam + NoiseBlock	SSN	1.843	.052	242.350	1.741
		Babble	1.824	.052	242.350	1.722
	DNN	SSN	2.042	.052	242.350	1.939
		Babble	1.831	.052	242.350	1.728
	NoiseBlock	SSN	1.826	.052	242.350	1.723
		Babble	1.724	.052	242.350	1.621
	Beam + DNN	SSN	2.342	.052	242.350	2.239
		Babble	2.156	.052	242.350	2.053
5	No Processing	SSN	2.061	.052	242.350	1.959
		Babble	1.870	.052	242.350	1.767

Estimates^a

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SNR Program Noise_Type Upper Bound -5 No Processing SSN 1.482 Babble 1.607 Beam SSN 1.542 Babble 1.662 Beam + NoiseBlock SSN 1.570 Babble 1.742 NoiseBlock SSN 1.574 Babble 1.645 Beam + DNN SSN 2.028 Babble 1.888 0 No Processing SSN 1.768 Babble 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 1.946 Babble 1.933 1.928 Babble 1.826 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164 Babble 1.972				95%
Babble	SNR	Program	Noise_Type	Upper Bound
Beam SSN 1.542 Babble 1.662 Beam + NoiseBlock SSN 1.570 Babble 1.732 DNN SSN 1.783 Babble 1.747 NoiseBlock SSN 1.574 Babble 1.645 Beam + DNN SSN 2.028 Babble 1.888 Babble 1.742 Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164	-5	No Processing	SSN	1.482
Babble			Babble	1.607
Beam + NoiseBlock SSN 1.570 Babble 1.732 DNN SSN 1.783 Babble 1.747 NoiseBlock SSN 1.574 Babble 1.645 Beam + DNN SSN 2.028 Babble 1.888 O No Processing SSN 1.768 Babble 1.742 Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		Beam	SSN	1.542
Babble 1.732			Babble	1.662
DNN SSN 1.783 Babble 1.747 NoiseBlock SSN 1.574 Babble 1.645 Beam + DNN SSN 2.028 Babble 1.888 0 No Processing SSN 1.768 Babble 1.742 Beam SSN 1.866 Babble 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		Beam + NoiseBlock	SSN	1.570
Babble			Babble	1.732
NoiseBlock SSN 1.574 Babble 1.645 Beam + DNN SSN 2.028 Babble 1.888 0 No Processing SSN 1.768 Babble 1.742 Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		DNN	SSN	1.783
Babble 1.645 Beam + DNN SSN 2.028 Babble 1.888 0 No Processing SSN 1.768 Babble 1.742 Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164			Babble	1.747
Beam + DNN SSN 2.028 Babble 1.888 0 No Processing SSN 1.768 Babble 1.742 Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		NoiseBlock	SSN	1.574
Babble 1.888 1.768			Babble	1.645
No Processing SSN 1.768 Babble 1.742 Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		Beam + DNN	SSN	2.028
Babble 1.742 Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164			Babble	1.888
Beam SSN 1.866 Babble 1.885 Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164	0	No Processing	SSN	1.768
Babble 1.885			Babble	1.742
Beam + NoiseBlock SSN 1.946 Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		Beam	SSN	1.866
Babble 1.927 DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164			Babble	1.885
DNN SSN 2.144 Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		Beam + NoiseBlock	SSN	1.946
Babble 1.933 NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164			Babble	1.927
NoiseBlock SSN 1.928 Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		DNN	SSN	2.144
Babble 1.826 Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164			Babble	1.933
Beam + DNN SSN 2.445 Babble 2.259 5 No Processing SSN 2.164		NoiseBlock	SSN	1.928
Babble 2.259 5 No Processing SSN 2.164			Babble	1.826
5 No Processing SSN 2.164		Beam + DNN	SSN	2.445
			Babble	2.259
Babble 1.972	5	No Processing	SSN	2.164
			Babble	1.972

Estimates^a

						95%
SNR	Program	Noise_Type	Mean	Std. Error	df	Lower Bound
	Beam	SSN	2.162	.052	242.350	2.060
		Babble	2.129	.052	242.350	2.026
	Beam + NoiseBlock	SSN	2.267	.052	242.350	2.164
		Babble	2.143	.052	242.350	2.040
	DNN	SSN	2.526	.052	242.350	2.423
		Babble	2.151	.052	242.350	2.048
	NoiseBlock	SSN	2.283	.052	242.350	2.181
		Babble	2.020	.052	242.350	1.918
	Beam + DNN	SSN	2.818	.052	242.350	2.715
		Babble	2.479	.052	242.350	2.376

Estimates^a

95% ...

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SNR	Program	Noise_Type	Upper Bound
	Beam	SSN	2.265
		Babble	2.231
	Beam + NoiseBlock	SSN	2.369
		Babble	2.245
	DNN	SSN	2.628
		Babble	2.253
	NoiseBlock	SSN	2.386
		Babble	2.123
	Beam + DNN	SSN	2.920
		Babble	2.581

a. Dependent Variable: pMOS.

				M D:#		
SNR	Noise_Type	(I) Program	(J) Program	Mean Difference (I-J)	Std. Error	df
-5	SSN	No Processing	Beam	060	.071	1113.000
-5 SSN		ŭ	Beam + NoiseBlock	088	.071	1113.000
			DNN	302 [*]	.071	1113.000
			NoiseBlock	093	.071	1113.000
			Beam + DNN	547 [*]	.071	1113.000
		Beam	No Processing	.060	.071	1113.000
			Beam + NoiseBlock	028	.071	1113.000
			DNN	242 [*]	.071	1113.000
			NoiseBlock	033	.071	1113.000
			Beam + DNN	487 [*]	.071	1113.000
		Beam + NoiseBlock	No Processing	.088	.071	1113.000
			Beam	.028	.071	1113.000
			DNN	213 [*]	.071	1113.000
			NoiseBlock	004	.071	1113.000
			Beam + DNN	458 [*]	.071	1113.000
		DNN	No Processing	.302*	.071	1113.000
			Beam	.242*	.071	1113.000
			Beam + NoiseBlock	.213 [*]	.071	1113.000
			NoiseBlock	.209*	.071	1113.000
			Beam + DNN	245 [*]	.071	1113.000
		NoiseBlock	No Processing	.093	.071	1113.000
			Beam	.033	.071	1113.000
			Beam + NoiseBlock	.004	.071	1113.000
			DNN	209 [*]	.071	1113.000
			Beam + DNN	454 [*]	.071	1113.000
		Beam + DNN	No Processing	.547 [*]	.071	1113.000
			Beam	.487*	.071	1113.000
			Beam + NoiseBlock	.458 [*]	.071	1113.000
			DNN	.245*	.071	1113.000
			NoiseBlock	.454*	.071	1113.000
	Babble	No Processing	Beam	055	.071	1113.000
		,	Beam + NoiseBlock	125	.071	1113.000
			DNN	140	.071	1113.000
			NoiseBlock	038	.071	1113.000
			Beam + DNN	281 [*]	.071	1113.000

					95% Confidence Interval for ^c
SNR	Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound
-5	SSN	No Processing	Beam	1.000	268
			Beam + NoiseBlock	1.000	297
			DNN	<.001	510
			NoiseBlock	1.000	301
			Beam + DNN	<.001	755
		Beam	No Processing	1.000	148
			Beam + NoiseBlock	1.000	237
			DNN	.010	450
			NoiseBlock	1.000	241
			Beam + DNN	<.001	695
		Beam + NoiseBlock	No Processing	1.000	120
			Beam	1.000	180
			DNN	.040	421
			NoiseBlock	1.000	212
			Beam + DNN	<.001	667
		DNN	No Processing	<.001	.093
			Beam	.010	.033
			Beam + NoiseBlock	.040	.005
			NoiseBlock	.048	.001
			Beam + DNN	.008	453
		NoiseBlock	No Processing	1.000	116
			Beam	1.000	176
			Beam + NoiseBlock	1.000	204
			DNN	.048	417
			Beam + DNN	<.001	662
		Beam + DNN	No Processing	<.001	.338
			Beam	<.001	.279
			Beam + NoiseBlock	<.001	.250
			DNN	.008	.037
			NoiseBlock	<.001	.246
	Babble	No Processing	Beam	1.000	263
		3	Beam + NoiseBlock	1.000	333
			DNN	.727	348
			NoiseBlock	1.000	246
			Beam + DNN	.001	489

95% Confidence Interval for ^c...

SNR	Noise_Type	(I) Program	(J) Program	Upper Bound
-5	SSN	No Processing	Beam	.148
			Beam + NoiseBlock	.120
			DNN	093
			NoiseBlock	.116
			Beam + DNN	338
		Beam	No Processing	.268
			Beam + NoiseBlock	.180
			DNN	033
			NoiseBlock	.176
			Beam + DNN	279
		Beam + NoiseBlock	No Processing	.297
			Beam	.237
			DNN	005
			NoiseBlock	.204
			Beam + DNN	250
		DNN	No Processing	.510
			Beam	.450
			Beam + NoiseBlock	.421
			NoiseBlock	.417
			Beam + DNN	037
		NoiseBlock	No Processing	.301
			Beam	.241
			Beam + NoiseBlock	.212
			DNN	001
			Beam + DNN	246
		Beam + DNN	No Processing	.755
			Beam	.695
			Beam + NoiseBlock	.667
			DNN	.453
			NoiseBlock	.662
	Babble	No Processing	Beam	.153
			Beam + NoiseBlock	.083
			DNN	.068
			NoiseBlock	.170
			Beam + DNN	072

				Mean Difference		
SNR	Noise_Type	(I) Program	(J) Program	(I-J)	Std. Error	df
		Beam	No Processing	.055	.071	1113.000
			Beam + NoiseBlock	070	.071	1113.000
			DNN	085	.071	1113.000
			NoiseBlock	.017	.071	1113.000
			Beam + DNN	226 [*]	.071	1113.000
		Beam + NoiseBlock	No Processing	.125	.071	1113.000
			Beam	.070	.071	1113.000
			DNN	015	.071	1113.000
			NoiseBlock	.087	.071	1113.000
			Beam + DNN	156	.071	1113.000
		DNN	No Processing	.140	.071	1113.000
			Beam	.085	.071	1113.000
			Beam + NoiseBlock	.015	.071	1113.000
			NoiseBlock	.102	.071	1113.000
			Beam + DNN	141	.071	1113.000
	NoiseBlock	No Processing	.038	.071	1113.000	
			Beam	017	.071	1113.000
			Beam + NoiseBlock	087	.071	1113.000
			DNN	102	.071	1113.000
			Beam + DNN	243 [*]	.071	1113.000
		Beam + DNN	No Processing	.281*	.071	1113.000
			Beam	.226 [*]	.071	1113.000
			Beam + NoiseBlock	.156	.071	1113.000
			DNN	.141	.071	1113.000
			NoiseBlock	.243*	.071	1113.000
0	SSN	No Processing	Beam	098	.071	1113.000
		_	Beam + NoiseBlock	178	.071	1113.000
			DNN	377 [*]	.071	1113.000
		NoiseBlock	160	.071	1113.000	
			Beam + DNN	677 [*]	.071	1113.000
		Beam	No Processing	.098	.071	1113.000
			Beam + NoiseBlock	080	.071	1113.000
			DNN	279 [*]	.071	1113.000
			NoiseBlock	062	.071	1113.000
			Beam + DNN	579 [*]	.071	1113.000
			Douin I Diviv	.070	.07 1	

					95% Confidence Interval for ^c
SNR	Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound
		Beam	No Processing	1.000	153
			Beam + NoiseBlock	1.000	278
			DNN	1.000	293
			NoiseBlock	1.000	191
			Beam + DNN	.022	434
		Beam + NoiseBlock	No Processing	1.000	083
			Beam	1.000	139
			DNN	1.000	223
			NoiseBlock	1.000	121
			Beam + DNN	.418	364
		DNN	No Processing	.727	068
			Beam	1.000	124
			Beam + NoiseBlock	1.000	193
			NoiseBlock	1.000	106
			Beam + DNN	.703	349
		NoiseBlock	No Processing	1.000	170
			Beam	1.000	225
			Beam + NoiseBlock	1.000	295
			DNN	1.000	310
			Beam + DNN	.009	451
		Beam + DNN	No Processing	.001	.072
			Beam	.022	.017
			Beam + NoiseBlock	.418	052
			DNN	.703	067
			NoiseBlock	.009	.034
0	SSN	No Processing	Beam	1.000	306
		_	Beam + NoiseBlock	.181	386
			DNN	<.001	585
			NoiseBlock	.355	369
			Beam + DNN	<.001	885
		Beam	No Processing	1.000	110
			Beam + NoiseBlock	1.000	288
			DNN	.001	487
			NoiseBlock	1.000	271
			Beam + DNN	<.001	787

95% Confidence Interval for ^c...

				intervarior
SNR	Noise_Type	(I) Program	(J) Program	Upper Bound
		Beam	No Processing	.263
			Beam + NoiseBlock	.139
			DNN	.124
			NoiseBlock	.225
			Beam + DNN	017
		Beam + NoiseBlock	No Processing	.333
			Beam	.278
			DNN	.193
			NoiseBlock	.295
			Beam + DNN	.052
		DNN	No Processing	.348
			Beam	.293
			Beam + NoiseBlock	.223
			NoiseBlock	.310
			Beam + DNN	.067
		NoiseBlock	No Processing	.246
			Beam	.191
			Beam + NoiseBlock	.121
			DNN	.106
			Beam + DNN	034
		Beam + DNN	No Processing	.489
			Beam	.434
			Beam + NoiseBlock	.364
			DNN	.349
			NoiseBlock	.451
0	SSN	No Processing	Beam	.110
			Beam + NoiseBlock	.030
			DNN	169
			NoiseBlock	.048
			Beam + DNN	469
		Beam	No Processing	.306
			Beam + NoiseBlock	.128
			DNN	071
			NoiseBlock	.146
			Beam + DNN	371

SNR	Noise_Type	(I) Program	(J) Program	Mean Difference (I-J)	Std. Error	df
OIVIC	140/3C_1 ypc	Beam + NoiseBlock	No Processing	.178	.071	1113.000
		Boain 1 NoicoBiook	Beam	.080	.071	1113.000
			DNN	199	.071	1113.000
			NoiseBlock	.018	.071	1113.000
			Beam + DNN	499 [*]	.071	1113.000
		DNN	No Processing	.377*	.071	1113.000
			Beam	.279 [*]	.071	1113.000
			Beam + NoiseBlock	.199	.071	1113.000
			NoiseBlock	.216 [*]	.071	1113.000
			Beam + DNN	300 [*]	.071	1113.000
		NoiseBlock	No Processing	.160	.071	1113.000
			Beam	.062	.071	1113.000
			Beam + NoiseBlock	018	.071	1113.000
			DNN	216 [*]	.071	1113.000
Babble		Beam + DNN	516 [*]	.071	1113.000	
		Beam + DNN	No Processing	.677 [*]	.071	1113.000
			Beam	.579 [*]	.071	1113.000
			Beam + NoiseBlock	.499*	.071	1113.000
			DNN	.300*	.071	1113.000
			NoiseBlock	.516 [*]	.071	1113.000
	Babble	No Processing	Beam	143	.071	1113.000
		, and the second	Beam + NoiseBlock	185	.071	1113.000
			DNN	192	.071	1113.000
			NoiseBlock	085	.071	1113.000
			Beam + DNN	517 [*]	.071	1113.000
		Beam	No Processing	.143	.071	1113.000
			Beam + NoiseBlock	042	.071	1113.000
			DNN	049	.071	1113.000
			NoiseBlock	.058	.071	1113.000
			Beam + DNN	374 [*]	.071	1113.000
		Beam + NoiseBlock	No Processing	.185	.071	1113.000
			Beam	.042	.071	1113.000
			DNN	006	.071	1113.000
			NoiseBlock	.101	.071	1113.000
			Beam + DNN	332 [*]	.071	1113.000

					95% Confidence Interval for ^c
SNR	Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound
		Beam + NoiseBlock	No Processing	.181	030
			Beam	1.000	128
			DNN	.076	407
			NoiseBlock	1.000	191
			Beam + DNN	<.001	707
		DNN	No Processing	<.001	.169
			Beam	.001	.071
			Beam + NoiseBlock	.076	009
			NoiseBlock	.034	.008
			Beam + DNN	<.001	508
		NoiseBlock	No Processing	.355	048
			Beam	1.000	146
			Beam + NoiseBlock	1.000	226
			DNN	.034	425
			Beam + DNN	<.001	725
		Beam + DNN	No Processing	<.001	.469
			Beam	<.001	.371
			Beam + NoiseBlock	<.001	.291
			DNN	<.001	.092
			NoiseBlock	<.001	.308
	Babble	No Processing	Beam	.653	351
			Beam + NoiseBlock	.135	394
			DNN	.103	400
			NoiseBlock	1.000	293
			Beam + DNN	<.001	725
		Beam	No Processing	.653	065
			Beam + NoiseBlock	1.000	251
			DNN	1.000	257
			NoiseBlock	1.000	150
			Beam + DNN	<.001	582
		Beam + NoiseBlock	No Processing	.135	023
			Beam	1.000	166
			DNN	1.000	215
			NoiseBlock	1.000	108
			Beam + DNN	<.001	540

95% Confidence Interval for ^c...

Beam	386 288 009 226 291 585 487 407 425 092 369 271 191 008
Beam	288 009 226 291 585 487 407 425 092 369 271
DNN	009 226 291 585 487 407 425 092 369 271
NoiseBlock Beam + DNN	226 291 585 487 407 425 092 369 271
Beam + DNN	291 585 487 407 425 092 369 271 191
DNN	585 487 407 425 092 369 271
Beam Beam Beam Beam Beam Beam Beam NoiseBlock NoiseBlock Beam + DNN Processing Beam Beam + NoiseBlock DNN Beam + DNN No Processing Beam Beam	487 407 425 092 369 271
Beam + NoiseBlock NoiseBlock NoiseBlock Beam + DNN	407 425 092 369 271 191
NoiseBlock Beam + DNN	425 092 369 271 191
Beam + DNN	092 369 271 191
No Processing Beam Beam Beam + NoiseBlock DNN	369 271 191
Beam	271 191
Beam + NoiseBlock	191
DNN	
Beam + DNN	800
Beam + DNN	
Beam	308
Beam + NoiseBlock	885
DNN NoiseBlock Babble No Processing Beam	787
NoiseBlock . Babble No Processing Beam .	707
Babble No Processing Beam .	508
	725
	065
Beam + NoiseBlock	023
DNN .	017
NoiseBlock .	124
Beam + DNN	309
Beam No Processing	351
Beam + NoiseBlock	166
DNN .	160
NoiseBlock	267
Beam + DNN	166
Beam + NoiseBlock No Processing	394
Beam .	251
DNN .	202
NoiseBlock .	202
Beam + DNN	309

SNR	Noise_Type	(I) Program	(J) Program	Mean Difference (I-J)	Std. Error	df
SIVIX	Noise_Type	DNN	No Processing	.192	.071	1113.000
		DININ	Beam	.049	.071	1113.000
			Beam + NoiseBlock	.006	.071	1113.000
			NoiseBlock	.107	.071	1113.000
			Beam + DNN	325 [*]	.071	1113.000
		NoiseBlock	No Processing	.085	.071	1113.000
		Holoobiook	Beam	058	.071	1113.000
			Beam + NoiseBlock	101	.071	1113.000
			DNN	107	.071	1113.000
			Beam + DNN	432 [*]	.071	1113.000
		Beam + DNN	No Processing	.517 [*]	.071	1113.000
		Beam / Biviv	Beam	.374*	.071	1113.000
			Beam + NoiseBlock	.332 [*]	.071	1113.000
			DNN	.325 [*]	.071	1113.000
			NoiseBlock	.432 [*]	.071	1113.000
5	SSN	No Processing	Beam	101	.071	1113.000
		ŭ	Beam + NoiseBlock	205	.071	1113.000
			DNN	465 [*]	.071	1113.000
			NoiseBlock	222 [*]	.071	1113.000
			Beam + DNN	757 [*]	.071	1113
		Beam	No Processing	.101	.071	1113.000
			Beam + NoiseBlock	104	.071	1113.000
			DNN	363 [*]	.071	1113.000
			NoiseBlock	121	.071	1113.000
			Beam + DNN	655 [*]	.071	1113
		Beam + NoiseBlock	No Processing	.205	.071	1113.000
			Beam	.104	.071	1113.000
			DNN	259 [*]	.071	1113.000
		NoiseBlock	017	.071	1113.000	
			Beam + DNN	551 [*]	.071	1113
		DNN	No Processing	.465 [*]	.071	1113.000
			Beam	.363 [*]	.071	1113.000
			Beam + NoiseBlock	.259 [*]	.071	1113.000
			NoiseBlock	.242*	.071	1113.000
			Beam + DNN	292 [*]	.071	1113

					95% Confidence Interval for ^c
SNR	Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound
		DNN	No Processing	.103	017
			Beam	1.000	160
			Beam + NoiseBlock	1.000	202
			NoiseBlock	1.000	101
			Beam + DNN	<.001	534
		NoiseBlock	No Processing	1.000	124
			Beam	1.000	267
			Beam + NoiseBlock	1.000	309
			DNN	1.000	315
			Beam + DNN	<.001	641
		Beam + DNN	No Processing	<.001	.309
			Beam	<.001	.166
			Beam + NoiseBlock	<.001	.123
			DNN	<.001	.117
			NoiseBlock	<.001	.224
5	SSN	No Processing	Beam	1.000	310
			Beam + NoiseBlock	.057	414
			DNN	<.001	673
			NoiseBlock	.026	431
			Beam + DNN	<.001	965
		Beam	No Processing	1.000	107
			Beam + NoiseBlock	1.000	312
			DNN	<.001	572
			NoiseBlock	1.000	329
			Beam + DNN	<.001	863
		Beam + NoiseBlock	No Processing	.057	003
			Beam	1.000	104
			DNN	.004	467
			NoiseBlock	1.000	225
			Beam + DNN	<.001	759
		DNN	No Processing	<.001	.256
			Beam	<.001	.155
			Beam + NoiseBlock	.004	.051
			NoiseBlock	.010	.034
			Beam + DNN	<.001	500

95% Confidence Interval for ^c...

SNR	Noise_Type	(I) Program	(J) Program	Upper Bound
		DNN	No Processing	.400
			Beam	.257
			Beam + NoiseBlock	.215
			NoiseBlock	.315
			Beam + DNN	117
		NoiseBlock	No Processing	.293
			Beam	.150
			Beam + NoiseBlock	.108
			DNN	.101
			Beam + DNN	224
		Beam + DNN	No Processing	.725
			Beam	.582
			Beam + NoiseBlock	.540
			DNN	.534
			NoiseBlock	.641
5	SSN	No Processing	Beam	.107
		ŭ	Beam + NoiseBlock	.003
			DNN	256
			NoiseBlock	014
			Beam + DNN	548
		Beam	No Processing	.310
			Beam + NoiseBlock	.104
			DNN	155
			NoiseBlock	.087
			Beam + DNN	447
		Beam + NoiseBlock	No Processing	.414
			Beam	.312
			DNN	051
			NoiseBlock	.191
			Beam + DNN	343
		DNN	No Processing	.673
			Beam	.572
			Beam + NoiseBlock	.467
			NoiseBlock	.451
			Beam + DNN	084

				Manu D:#************************************		
SNR	Noise_Type	(I) Program	(J) Program	Mean Difference (I-J)	Std. Error	df
		NoiseBlock	No Processing	.222*	.071	1113.000
			Beam	.121	.071	1113.000
			Beam + NoiseBlock	.017	.071	1113.000
			DNN	242 [*]	.071	1113.000
			Beam + DNN	534 [*]	.071	1113
		Beam + DNN	No Processing	.757 [*]	.071	1113
			Beam	.655 [*]	.071	1113
			Beam + NoiseBlock	.551 [*]	.071	1113
			DNN	.292*	.071	1113
			NoiseBlock	.534 [*]	.071	1113
	Babble	No Processing	Beam	259 [*]	.071	1113
			Beam + NoiseBlock	273 [*]	.071	1113
			DNN	281 [*]	.071	1113
			NoiseBlock	151	.071	1113
			Beam + DNN	609 [*]	.071	1113.000
		Beam	No Processing	.259 [*]	.071	1113
			Beam + NoiseBlock	014	.071	1113
			DNN	022	.071	1113
			NoiseBlock	.108	.071	1113
			Beam + DNN	350 [*]	.071	1113.000
		Beam + NoiseBlock	No Processing	.273 [*]	.071	1113
			Beam	.014	.071	1113
			DNN	008	.071	1113
			NoiseBlock	.122	.071	1113
			Beam + DNN	336 [*]	.071	1113.000
		DNN	No Processing	.281 [*]	.071	1113
			Beam	.022	.071	1113
			Beam + NoiseBlock	.008	.071	1113
			NoiseBlock	.130	.071	1113
			Beam + DNN	328 [*]	.071	1113.000
		NoiseBlock	No Processing	.151	.071	1113
			Beam	108	.071	1113
			Beam + NoiseBlock	122	.071	1113
			DNN Bases - DNN	130	.071	1113
			Beam + DNN	458 [*]	.071	1113.000

					95% Confidence Interval for ^c
SNR	Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound
		NoiseBlock	No Processing	.026	.014
			Beam	1.000	087
			Beam + NoiseBlock	1.000	191
			DNN	.010	451
			Beam + DNN	<.001	742
		Beam + DNN	No Processing	<.001	.548
			Beam	<.001	.447
			Beam + NoiseBlock	<.001	.343
			DNN	<.001	.084
			NoiseBlock	<.001	.326
	Babble	No Processing	Beam	.004	467
			Beam + NoiseBlock	.002	481
			DNN	.001	489
			NoiseBlock	.501	359
			Beam + DNN	<.001	817
		Beam	No Processing	.004	.051
			Beam + NoiseBlock	1.000	222
			DNN	1.000	230
			NoiseBlock	1.000	100
			Beam + DNN	<.001	558
		Beam + NoiseBlock	No Processing	.002	.065
			Beam	1.000	194
			DNN	1.000	216
			NoiseBlock	1.000	086
			Beam + DNN	<.001	544
		DNN	No Processing	.001	.073
			Beam	1.000	187
			Beam + NoiseBlock	1.000	200
			NoiseBlock	.994	078
			Beam + DNN	<.001	536
		NoiseBlock	No Processing	.501	057
			Beam	1.000	317
			Beam + NoiseBlock	1.000	331
			DNN	.994	338
			Beam + DNN	<.001	666

95% Confidence Interval for ^c...

CNID	Naiss Tuns	(I) Due avere	(I) Due sue se	Upper Bound
SNR	Noise_Type	(I) Program NoiseBlock	(J) Program No Processing	.431
		NoiseBlook		
			Beam + NoiseBlock	.329
			DNN	.225
			Beam + DNN	326
		Doom : DNN		
		Beam + DNN	No Processing	.965
			Beam	.863
			Beam + NoiseBlock	.759
			DNN	.500
			NoiseBlock	.742
	Babble	No Processing	Beam	051
			Beam + NoiseBlock	065
			DNN	073
			NoiseBlock	.057
			Beam + DNN	401
		Beam	No Processing	.467
			Beam + NoiseBlock	.194
			DNN	.187
			NoiseBlock	.317
			Beam + DNN	141
		Beam + NoiseBlock	No Processing	.481
			Beam	.222
			DNN	.200
			NoiseBlock	.331
			Beam + DNN	128
		DNN	No Processing	.489
			Beam	.230
			Beam + NoiseBlock	.216
			NoiseBlock	.338
			Beam + DNN	120
		NoiseBlock	No Processing	.359
			Beam	.100
			Beam + NoiseBlock	.086
			DNN	.078
			Beam + DNN	250

				Mean Difference		
SNR	Noise_Type	(I) Program	(J) Program	(I-J)	Std. Error	df
		Beam + DNN	No Processing	.609*	.071	1113.000
			Beam	.350 [*]	.071	1113.000
			Beam + NoiseBlock	.336 [*]	.071	1113.000
			DNN	.328*	.071	1113.000
			NoiseBlock	.458 [*]	.071	1113.000

Pairwise Comparisons^a

					95% Confidence Interval for ^c
SNR	Noise_Type	(I) Program	(J) Program	Sig. ^c	Lower Bound
		Beam + DNN	No Processing	<.001	.401
			Beam	<.001	.141
			Beam + NoiseBlock	<.001	.128
			DNN	<.001	.120
			NoiseBlock	<.001	.250

Pairwise Comparisons^a

95% Confidence Interval for ^c...

SNR	Noise_Type	(I) Program	(J) Program	Upper Bound
		Beam + DNN	No Processing	.817
			Beam	.558
			Beam + NoiseBlock	.544
			DNN	.536
			NoiseBlock	.666

Based on estimated marginal means

- *. The mean difference is significant at the .05 level.
- a. Dependent Variable: pMOS.
- c. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests^a

SNR	Noise_Type	Numerator df	Denominator df	F	Sig.
-5	SSN	5	1113.000	16.926	<.001
	Babble	5	1113.000	4.027	.001
0	SSN	5	1113.000	23.705	<.001
	Babble	5	1113.000	12.471	<.001
5	SSN	5	1113.000	30.290	<.001
	Babble	5	1113.000	16.106	<.001

Each F tests the simple effects of Program within each level combination of the other effects shown. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Dependent Variable: pMOS.