



# Test Report


NORDIC SEMICONDUCTOR  
P. O. BOX 436 SKOYEN N-0213 OSLO NORWAY

Report No. : CE/2004/B1552  
Date : 2004/11/16  
Page : 1 of 7

**The following merchandise was (were) submitted and identified by the client as :**

Type of Product : IC TRANCEIVERS  
Style/Item No : nRF2401AG  
P.O./Ref. No. : 247/04  
Manufacturer/Vendor : NORDIC SEMICONDUCTOR  
Country of Origin : NORWAY  
Sample Received : 2004/11/09  
Testing Date : 2004/11/09 TO 2004/11/16

=====  
**Test Result** : - Please see the next page -

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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NORDIC SEMICONDUCTOR  
P. O. BOX 436 SKOYEN N-0213 OSLO NORWAY

Report No. : CE/2004/B1552  
Date : 2004/11/16  
Page : 2 of 7

## Test Result

PART NAME NO.1 : PLEASE REFER TO THE PHOTO(S) ATTACHED.(MIX ALL PARTS)

Test Item (s):	Unit	Method	MDL	Result					
				No.1					
Asbestos									
Anthrophyllite(CAS NO.017068-78-9)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative					
Crocodolite(CAS NO.012001-28-4)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative					
Amosite(CAS NO.012172-73-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative					
Tremolite(CAS NO.014567-73-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative					
Chrysotile(CAS NO.012001-29-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative					
Actinolite(CAS NO.013768-00-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative					

Test Item (s):	Unit	Method	MDL	Result					
				No.1					
AZO		As per LMBG 8202-2							
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.					
BENZIDINE (CAS NO.92-87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.					
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.					
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.					

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P. O. BOX 436 SKOYEN N-0213 OSLO NORWAY

Report No. : CE/2004/B1552  
Date : 2004/11/16  
Page : 3 of 7

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2-AMINO-4- NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4- DIAMINODIPHENYLMETHA NE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3- DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA NE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-CRESIDINE(2-METHOXY- 5-METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.				
O-TOLUIDINE (CAS NO.95- 53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.				

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# Test Report

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P. O. BOX 436 SKOYEN N-0213 OSLO NORWAY

Report No. : CE/2004/B1552

Date : 2004/11/16

Page : 4 of 7

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.				
O-ANISIDINE (CAS NO.90- 04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.				
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chlorinated Paraffin (C10~C13) (CAS NO:010871-26-2)	%	Analysis was performed by GC/MS.	0.01	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Formaldehyde(CAS No:000050-00-0)	ppm	With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS	0.2	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Organic-tin compounds								
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.				
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.				

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Report No. : CE/2004/B1552  
 Date : 2004/11/16  
 Page : 5 of 7

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PBBs(Polybrominated biphenyls)(CAS NO:67774-32-7)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.				
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)	ppm	With reference to US EPA 8082, 89/677/EEC. Analysis was performed by GC/ECD/MS.	0.5	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Polychlorinated Naphthalene	ppm	Analysis was performed by GC/MS.	5	N.D.				

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
PVC free(CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR and Pyro-GC/MS.	-	Negative				

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Report No. : CE/2004/B1552  
Date : 2004/11/16  
Page : 6 of 7

Test Item (s):	Unit	Method	MDL	Result				
				No. 1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.				

- NOTE : (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL = Method Detection Limit  
(4) " - " = No Regulation  
(5) \*\* = Qualitative analysis (No Unit)  
(6) Negative = Undetectable / Positive = Detectable

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Report No. : CE/2004/B1552  
Date : 2004/11/16  
Page : 7 of 7

