



W66 N220 Commerce Court
Cedarburg, Wisconsin 53012
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FCC Part 15.107 Conducted Emission Measurements

Compliance Testing of:
ALERTx AX7910 Transceiver Module

Test Date:
January 14, 2004

All results of this report relate only to the items that were tested.
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L1 Tx Ch: 1 (4:02pm)

Freq (Mhz)	Measurements (dBuV/m)		
	Peak	QP	Avg.
0.16	57.0	47.6	18.2
0.41	39.2	30.2	3.3
0.66	35.8	27.1	2.0
1.46	29.4	26.3	23.5
4.00	32.7	31.2	30.0
15.34	46.1	38.4	26.3

Limit (dBuV/m)	
QP	Avg.
65.5	55.5
57.7	47.7
56.0	46.0
56.0	46.0
56.0	46.0
60.0	50.0

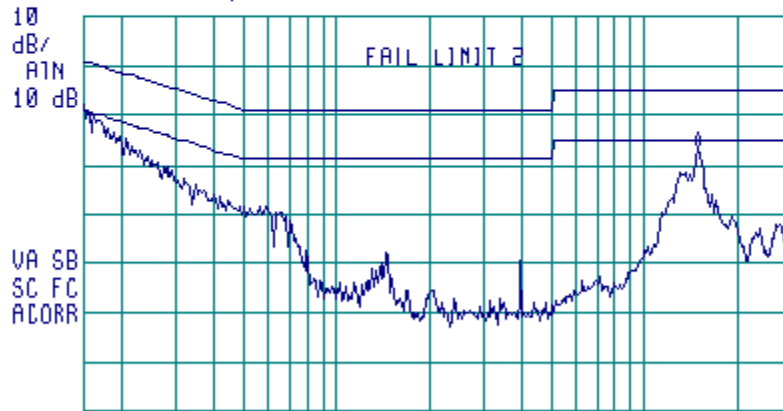
Margin (dB)	
Qp	Avg.
17.9	37.3
27.5	44.4
28.9	44.0
29.7	22.5
24.8	16.0
21.6	23.7

16:02:55 JAN 13, 2004

ACTV DET: PEAK
 MEAS DET: PEAK QP AVG
 MKR 14.76 MHz
 48.64 dBuV

Last Hrd
 Key Menu
 SPAN

LOG REF 75 @ dBuV



RL *IF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

Limit Lines
 Correctn Factors
 Inst Setup
 SHOW SETUP
 SAVE SETUP
 More 2 of 3

L2 Tx Ch: 1 (4:11pm)

Freq (MHz)	Measurements (dBuV/m)		
	Peak	QP	Avg.
0.16	55.8	47.3	17.5
0.40	38.9	30.5	3.3
0.62	35.8	27.8	4.8
1.39	24.7	16.6	7.0
4.00	32.6	31.2	30.0
14.94	48.4	39.9	25.0

Limit (dBuV/m)	
QP	Avg.
65.5	55.5
57.9	47.9
56.0	46.0
56.0	46.0
56.0	46.0
60.0	50.0

Margin (dB)	
Qp	Avg.
18.2	38.0
27.4	44.6
28.2	41.2
39.4	39.0
24.8	16.0
20.1	25.0

16:11:35 JAN 13, 2004

MARKER
14.99 MHz
46.81 dBuV

FREQ 14.94 MHz
PEAK 48.4 dBuV
QP 39.9 dBuV
AVG 25.8 dBuV

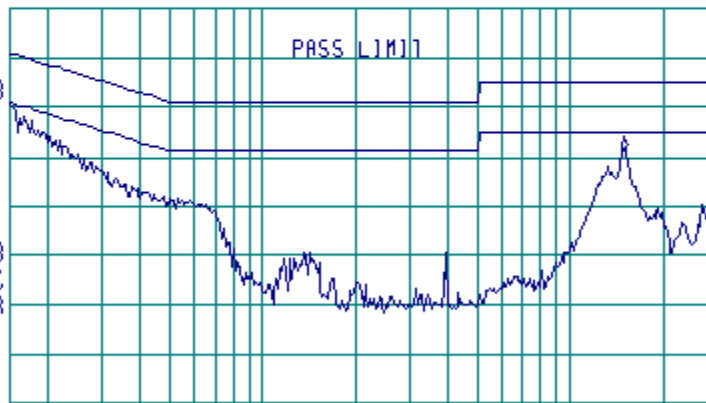
Last Hrd
Key Menu

SPAN

LOG REF 75 @ dBuV

10
dB/
ATTN
10 dB

VA SB
SC FC
ACORR



START 150 kHz

RL *1F BW 9.0 kHz

AVG BW 30 kHz

STOP 30.00 MHz

SWP 2.49 sec

CLEAR
WRITE B

MAX
HOLD B

VIEW B

BLANK B

Trace
A B C

More
1 of 3

L1 Tx Ch: 45 (4:25pm)

Freq (Mhz)	Measurements (dBuV/m)		
	Peak	QP	Avg.
0.16	54.4	45.9	16.8
.38	39.5	31.3	3.6
0.63	36.1	28.1	3.1
1.46	23.6	15.7	8.6
4.00	32.6	31.1	29.9
14.87	46.5	39.5	25.3

Limit (dBuV/m)	
QP	Avg.
65.5	55.5
58.3	48.3
56.0	46.0
56.0	46.0
56.0	46.0
60.0	50.0

Margin (dB)	
Qp	Avg.
19.6	38.7
27.0	44.7
27.9	42.9
40.3	37.4
24.9	16.1
20.5	24.7

16:25:39 JAN 13, 2004

MARKER
14.99 MHz
46.90 dBuV

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 14.99 MHz
46.90 dBuV

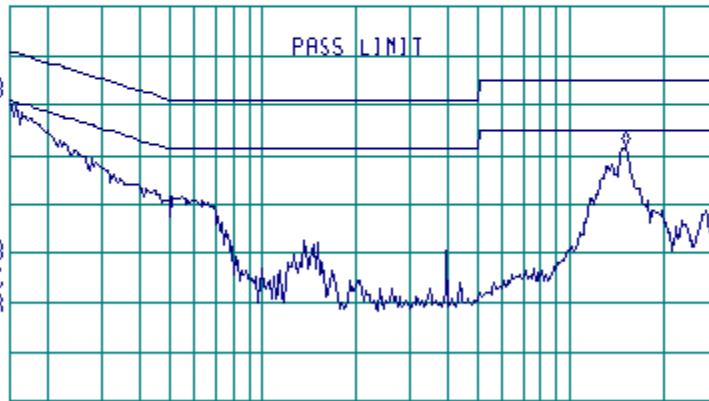
Last Hrd
Key Menu

SPAN

LOG REF 75 @ dBuV

10
dB/
ATTN
10 dB

VA SB
SC FC
ACORR



START 150 kHz STOP 30.00 MHz
R #1F BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

MARKER
NORMAL

MARKER
▲

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
DN OFF

More
1 of 2

L2 Tx Ch: 45 (4:34pm)

Freq (Mhz)	Measurements (dBuV/m)		
	Peak	QP	Avg.
0.16	53.0	45.1	15.2
0.40	36.5	28.9	2.7
0.62	34.0	26.1	5.3
1.47	23.0	14.3	7.5
4.00	32.3	30.8	29.6
14.83	47.3	39.5	27.4

Limit (dBuV/m)	
QP	Avg.
65.5	55.5
57.9	47.9
56.0	46.0
56.0	46.0
56.0	46.0
60.0	50.0

Margin (dB)	
Qp	Avg.
20.4	40.3
29.0	45.2
29.9	40.7
41.7	38.5
25.2	16.4
20.5	22.6

16:34:28 JAN 13, 2004

MARKER
14.76 MHz
47.95 dBuV

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 14.76 MHz
47.95 dBuV

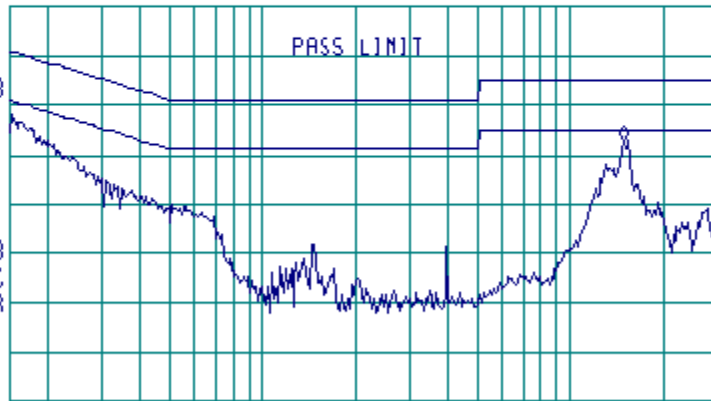
Last Hrd
Key Menu

SPAN

LOG REF 75 @ dBuV

10
dB/
ATTN
10 dB

VA SB
SC FC
ACORR



START 150 kHz STOP 30.00 MHz
RL *IF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

MARKER
NORMAL

MARKER
▲

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
DN OFF

More
1 of 2

L1 Tx Ch: 89 (4:46pm)

Measurements (dBuV/m)			
Freq (Mhz)	Peak	Qp	Avg.
0.16	53.9	46.1	16.3
0.38	37.9	29.9	3.1
0.58	35.1	27.4	2.6
1.46	28.4	25.6	23.3
4.00	32.0	30.6	29.4
14.76	47.5	39.8	26.3

Limit (dBuV/m)	
Qp	Avg.
65.5	55.5
58.3	48.3
56.0	46.0
56.0	46.0
56.0	46.0
60.0	50.0

Margin (dB)	
Qp	Avg.
19.4	39.2
28.4	45.2
28.6	43.4
30.4	22.7
25.4	16.6
20.2	23.7

16:46:17 JAN 13, 2004

MARKER
15.22 MHz
44.89 dBuV

ACTV DET: PEAK
MEAS DET: PEAK DP AVG
MKR 15.22 MHz
44.89 dBuV

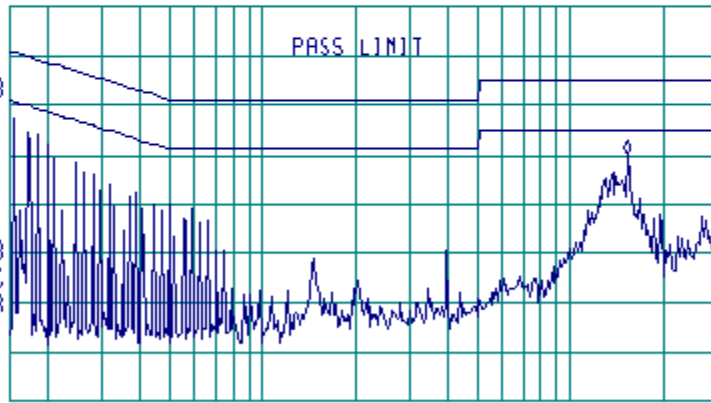
Last Hrd
Key Menu

SPAN

LOG REF 75 @ dBuV

10
dB/
ATTN
10 dB

VA SB
SC FC
ACORR



START 15.0 kHz
RL *1F BW 9.0 kHz

AVG BW 30 kHz

STOP 30.00 MHz
SWP 2.49 sec

MARKER
NORMAL

MARKER
▲

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
DN OFF

More
1 of 2

L2 Tx Ch: 89 (4:59pm)

Freq (Mhz)	Measurements (dBuV/m)		
	Peak	Qp	Avg.
0.16	54.0	46.1	16.0
0.39	38.0	29.5	3.3
0.59	35.4	27.5	2.5
1.52	21.6	14.3	8.3
4.00	32.8	31.2	30.0
15.28	45.6	38.3	26.6

Limit (dBuV/m)	
Qp	Avg.
65.5	55.5
58.1	48.1
56.0	46.0
56.0	46.0
56.0	46.0
60.0	50.0

Margin (dB)	
Qp	Avg.
19.4	39.5
28.6	44.8
28.5	43.5
41.7	37.7
24.8	16.0
21.7	23.4

16:59:50 JAN 13, 2004

MARKER
14.76 MHz
49.75 dBuV

ACTV DET: PEAK
MEAS DET: PEAK DP AVG
MKR 14.76 MHz
49.75 dBuV

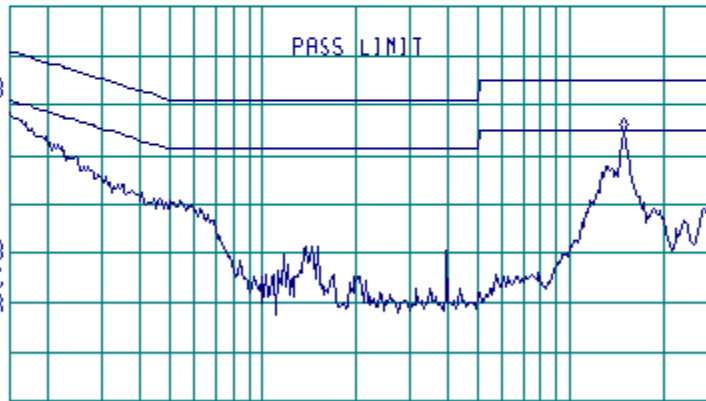
Last Hrd
Key Menu

SPAN

LOG REF 75 @ dBuV

10
dB/
ATTN
10 dB

VA SB
SC FC
ACORR



START 150 kHz STOP 30.00 MHz
RL *1F BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

MARKER
NORMAL

MARKER
▲

MARKER
AMPTD

SELECT
1 2 3 4

MARKER 1
DN OFF

More
1 of 2