

DTV Channel 6 Interference to FM Band Reception

Laboratory Test Report

Test Results Based on FCC Specifications after February 23, 1998 C4

Section: 4.4.1
 Engr(s): DML, RMc
 Date: 3/13/98

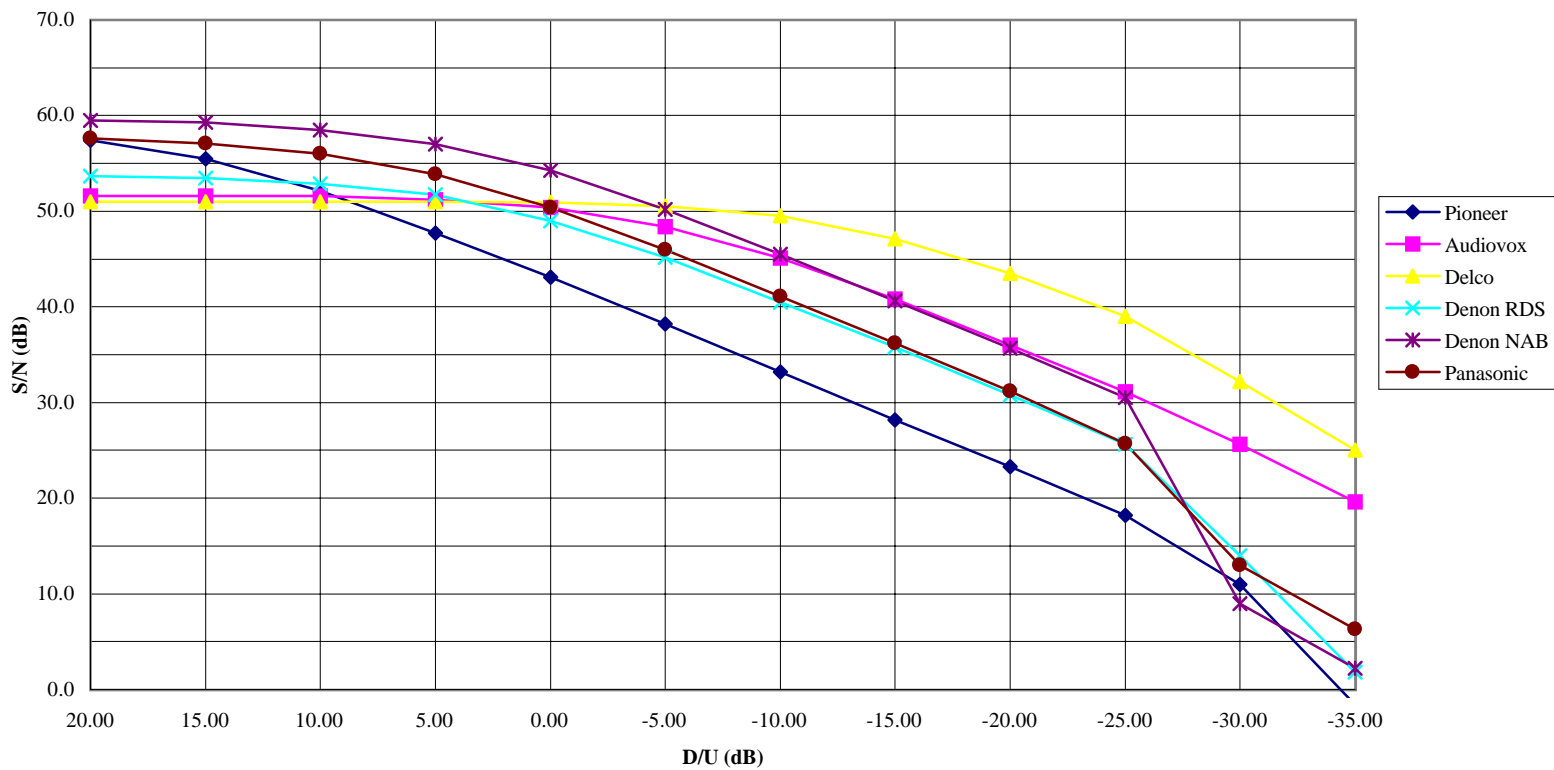
Signal Level: -56 dBm
 Corrector setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.08	-3.08

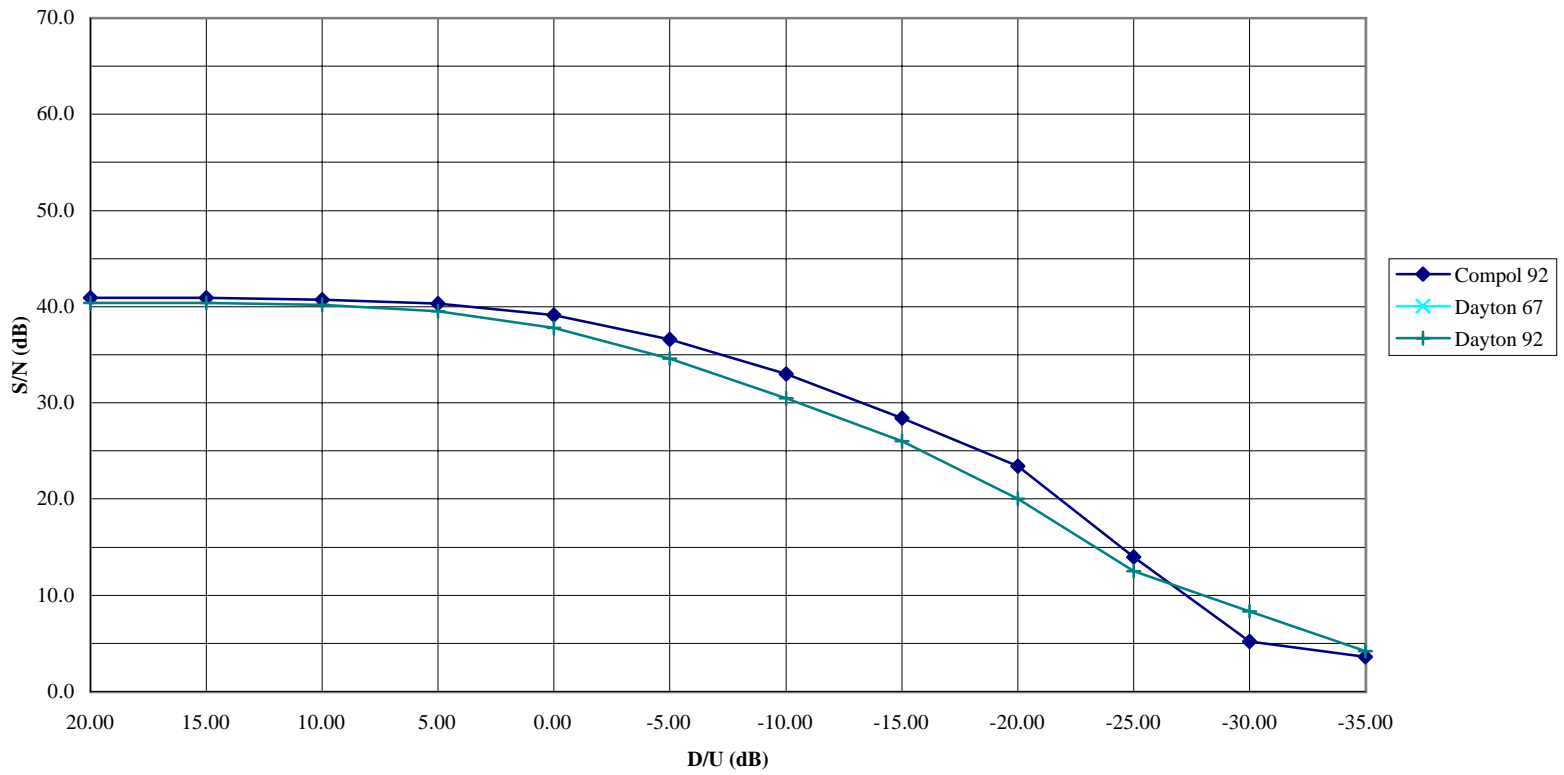
0 dB D/U = -35.00

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		58.6	51.6	51.0	53.8	59.8	57.8	40.4		40.9
55.0	20.00	57.4	51.6	51.0	53.7	59.5	57.6	40.4		40.9
50.0	15.00	55.5	51.6	51.0	53.5	59.3	57.1	40.4		40.9
45.0	10.00	52.1	51.6	51.0	52.9	58.5	56.0	40.2		40.7
40.0	5.00	47.7	51.2	51.0	51.7	57	53.9	39.5		40.3
35.0	0.00	43.1	50.4	50.9	49.0	54.3	50.4	37.8		39.1
30.0	-5.00	38.2	48.4	50.5	45.2	50.2	46.0	34.6		36.6
25.0	-10.00	33.2	45.1	49.5	40.5	45.5	41.1	30.5		33.0
20.0	-15.00	28.2	40.8	47.1	35.8	40.6	36.2	26.0		28.4
15.0	-20.00	23.3	36.0	43.5	30.8	35.7	31.2	20.0		23.4
10.0	-25.00	18.2	31.1	39.0	25.6	30.5	25.7	12.5		14.0
5.0	-30.00	11.0	25.6	32.2	14.0	9.0	13.0	8.3		5.2
0.0	-35.00	-1.6	19.6	25.0	1.8	2.2	6.3	4.2		3.6
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.2
 Engr(s): DML, RMc
 Date: 3/13/98

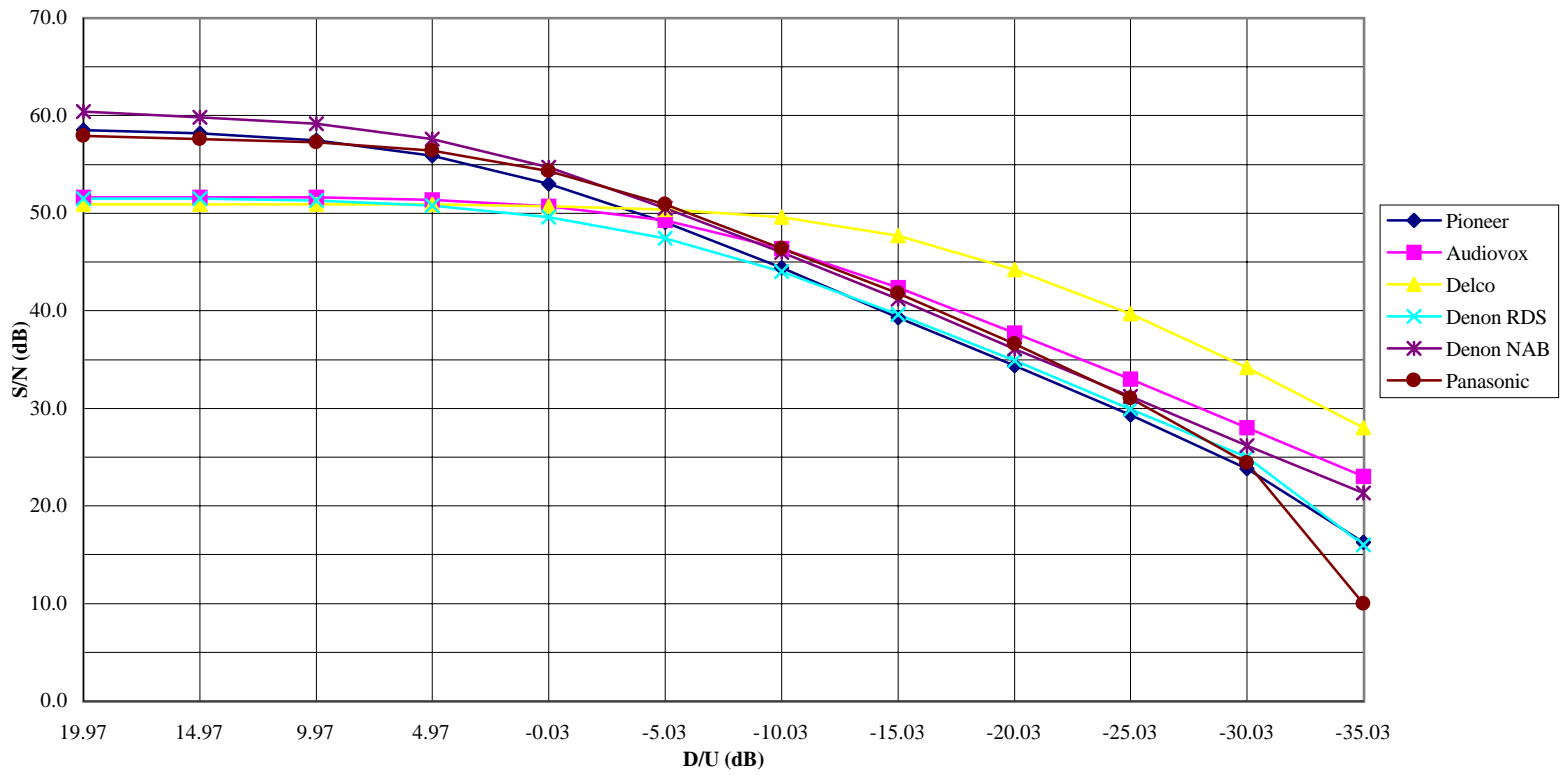
Signal Level: -56 dBm
 Corrector setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.11	-3.08

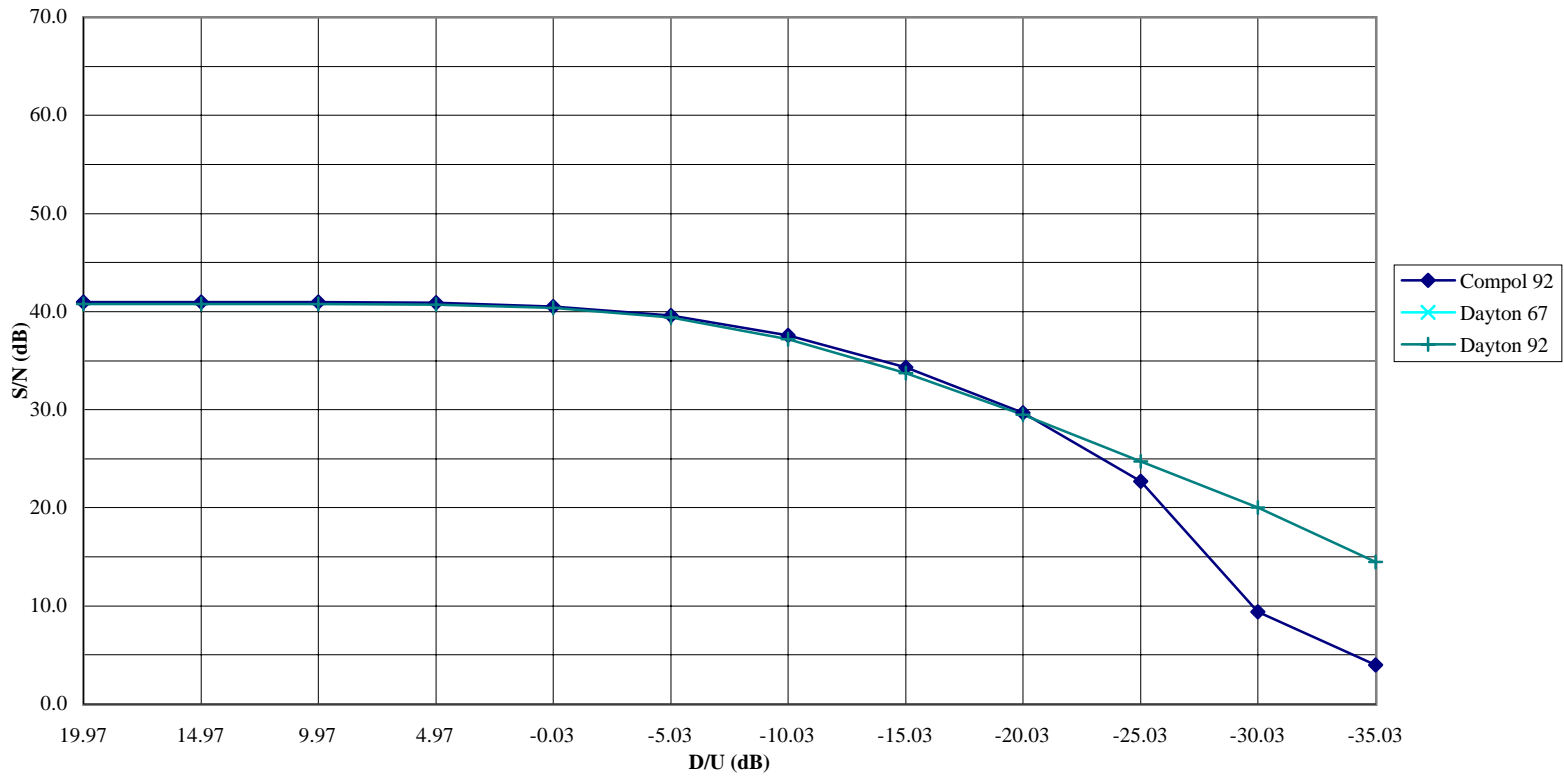
0 dB D/U = -35.03

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		58.5	51.6	50.9	51.5	60.4	57.9	40.8		41.0
55.0	19.97	58.5	51.6	50.9	51.5	60.4	57.9	40.8		41.0
50.0	14.97	58.2	51.6	50.9	51.5	59.8	57.6	40.8		41.0
45.0	9.97	57.5	51.6	50.9	51.3	59.2	57.3	40.8		41.0
40.0	4.97	55.9	51.4	50.9	50.8	57.6	56.4	40.7		40.9
35.0	-0.03	53.0	50.7	50.7	49.6	54.7	54.3	40.4		40.5
30.0	-5.03	49.1	49.3	50.4	47.4	50.5	50.9	39.4		39.6
25.0	-10.03	44.4	46.4	49.6	44.0	46.0	46.4	37.2		37.6
20.0	-15.03	39.3	42.4	47.7	39.6	41.2	41.8	33.7		34.3
15.0	-20.03	34.4	37.7	44.2	34.9	36.1	36.6	29.5		29.7
10.0	-25.03	29.3	33.0	39.7	29.9	31.2	31.0	24.7		22.7
5.0	-30.03	23.8	28.0	34.2	25.0	26.2	24.4	20.0		9.4
0.0	-35.03	16.3	23.0	28.0	16.0	21.3	10.0	14.5		4.0
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.3
 Engr(s): DML
 Date: 3/16/98

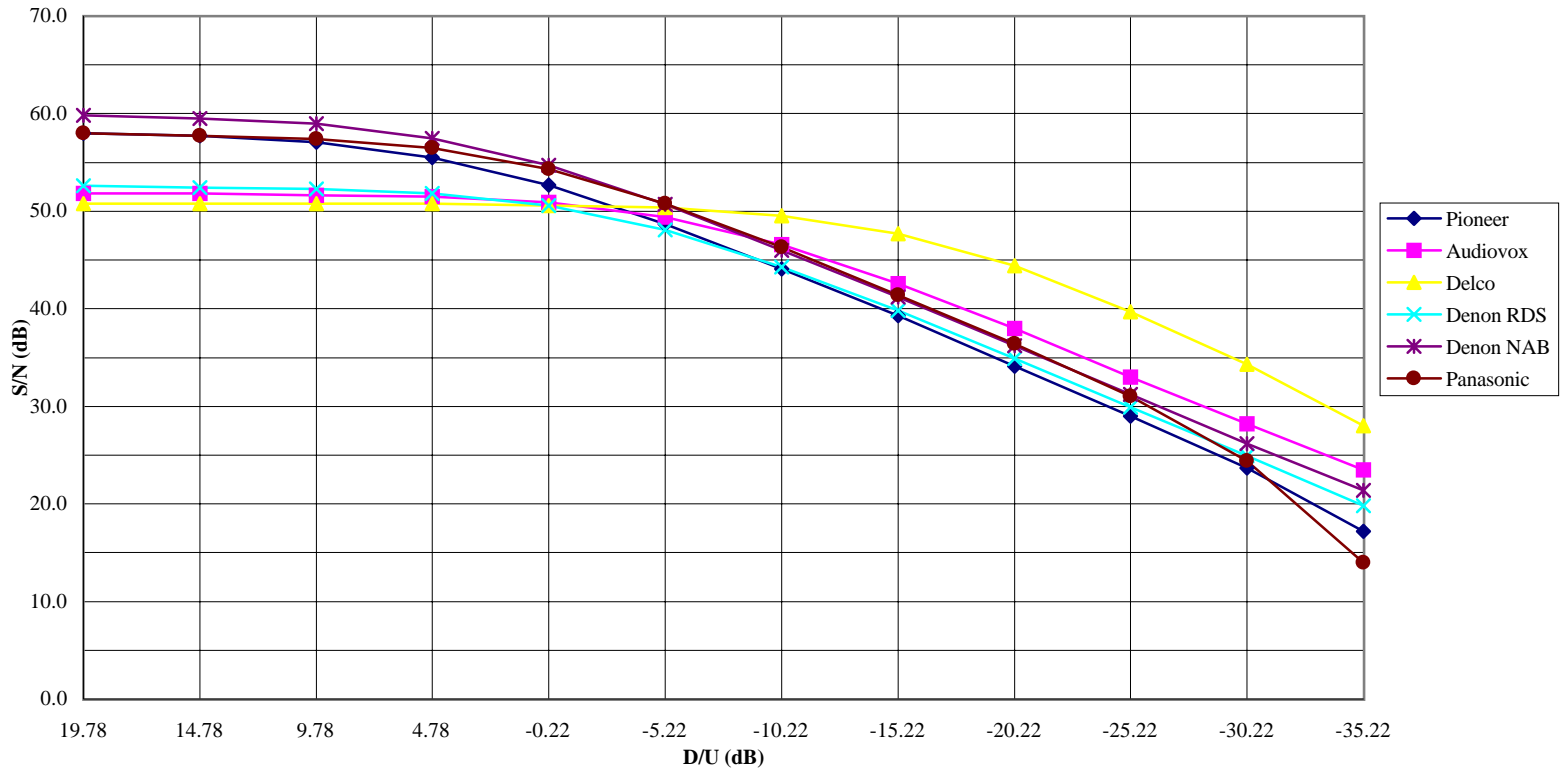
Signal Level: -56 dBm
 Corrector setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.04	-2.82

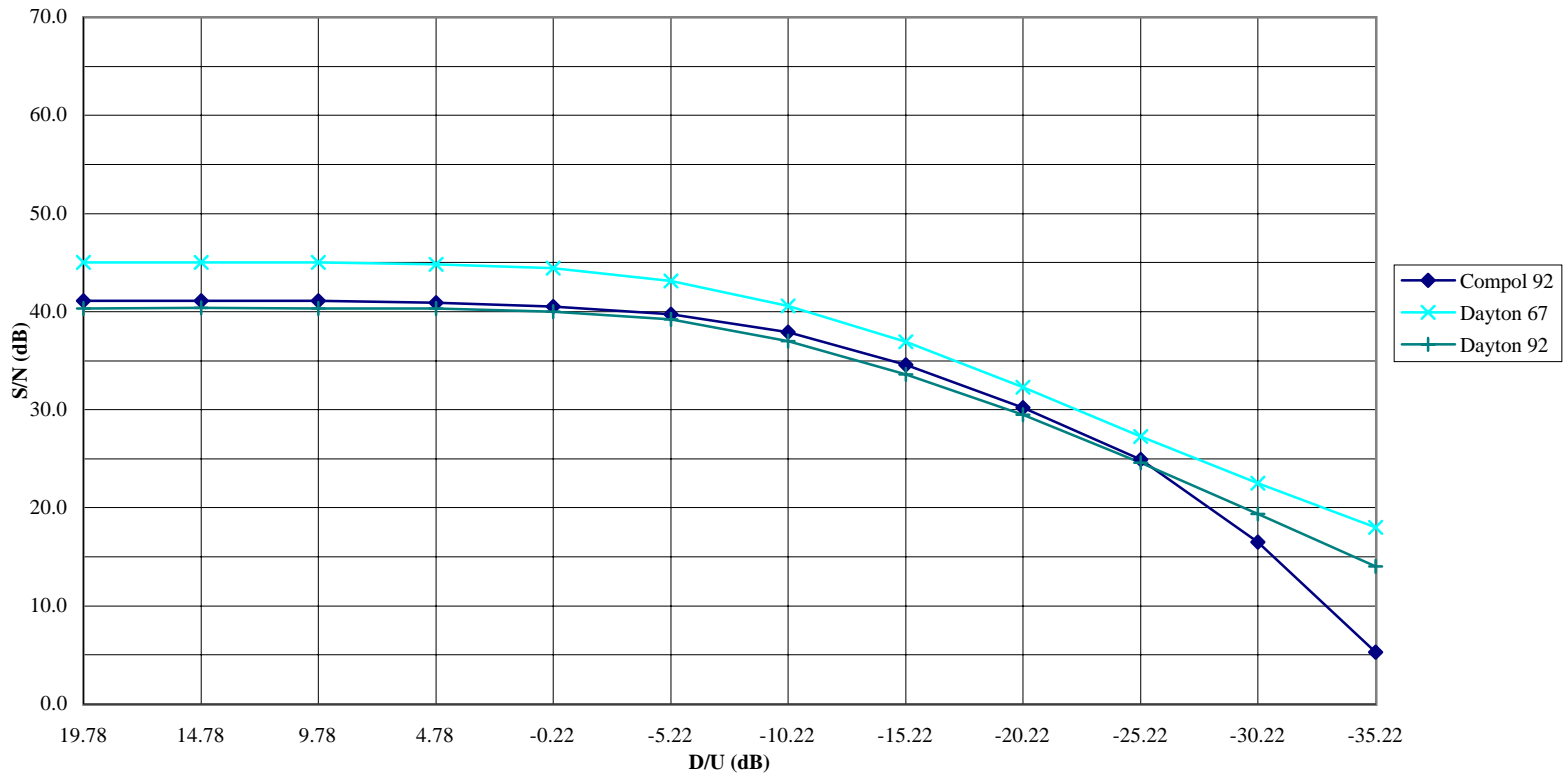
0 dB D/U = -35.22

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		58.0	51.8	50.8	52.6	59.8	58.0	40.4	45.0	41.1
55.0	19.78	58.0	51.8	50.8	52.6	59.8	58.0	40.3	45.0	41.1
50.0	14.78	57.7	51.8	50.8	52.4	59.5	57.7	40.4	45.0	41.1
45.0	9.78	57.1	51.6	50.8	52.3	59	57.4	40.3	45.0	41.1
40.0	4.78	55.5	51.5	50.8	51.8	57.5	56.5	40.3	44.8	40.9
35.0	-0.22	52.7	50.9	50.6	50.6	54.7	54.3	40.0	44.4	40.5
30.0	-5.22	48.7	49.4	50.4	48.1	50.7	50.8	39.2	43.1	39.7
25.0	-10.22	44.1	46.6	49.5	44.3	46.0	46.3	37.0	40.6	37.9
20.0	-15.22	39.3	42.6	47.7	39.8	41.2	41.4	33.6	36.9	34.6
15.0	-20.22	34.1	38.0	44.4	34.9	36.2	36.4	29.5	32.3	30.2
10.0	-25.22	29.0	33.0	39.7	29.9	31.2	31.0	24.6	27.3	24.9
5.0	-30.22	23.7	28.2	34.3	24.9	26.2	24.4	19.4	22.5	16.5
0.0	-35.22	17.2	23.5	28.0	19.8	21.4	14.0	14.0	18.0	5.3
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.4
 Engr(s): DML
 Date: 3/17/98

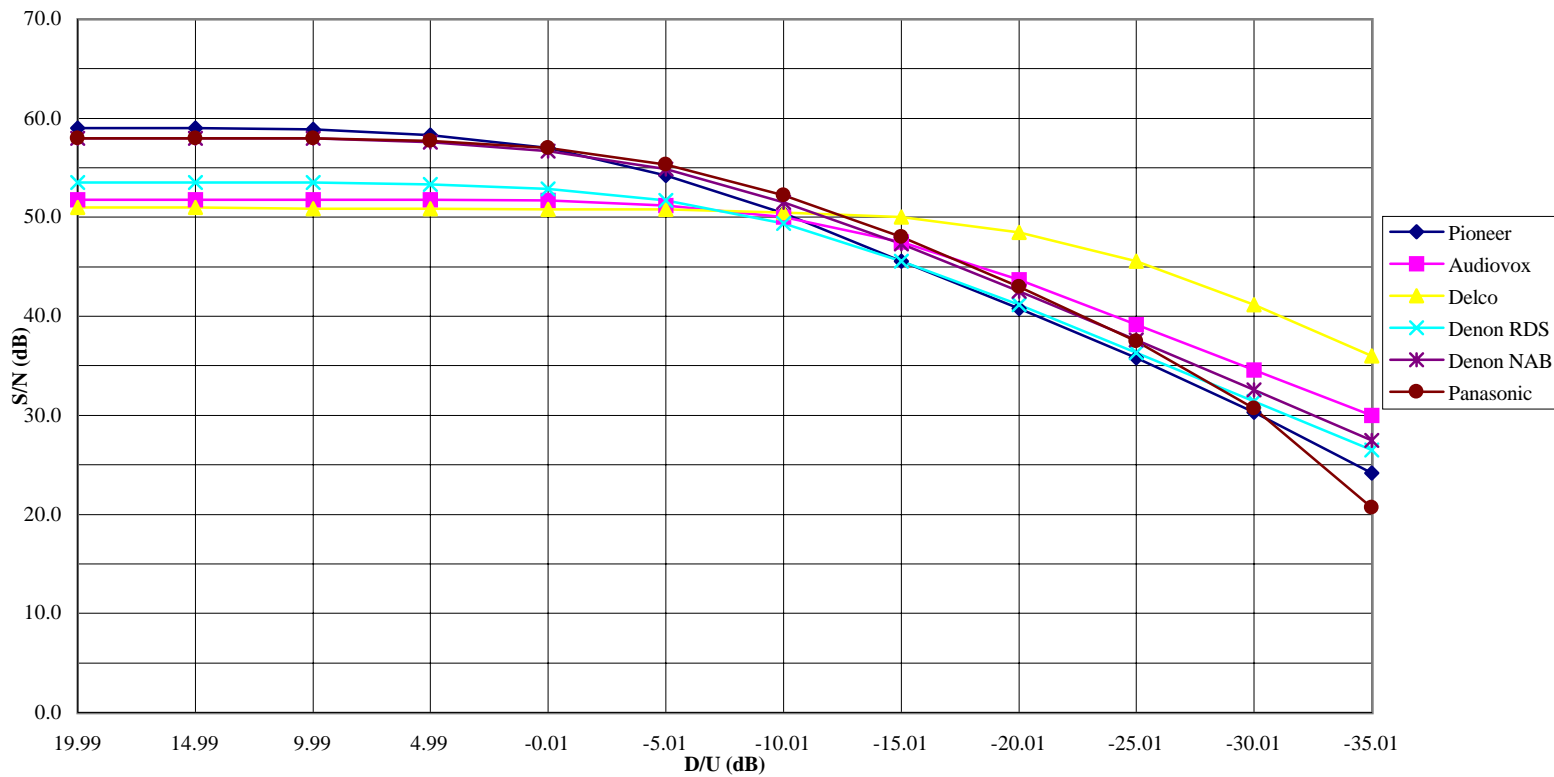
Signal Level: -56 dBm
 Corrector setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.10	-3.09

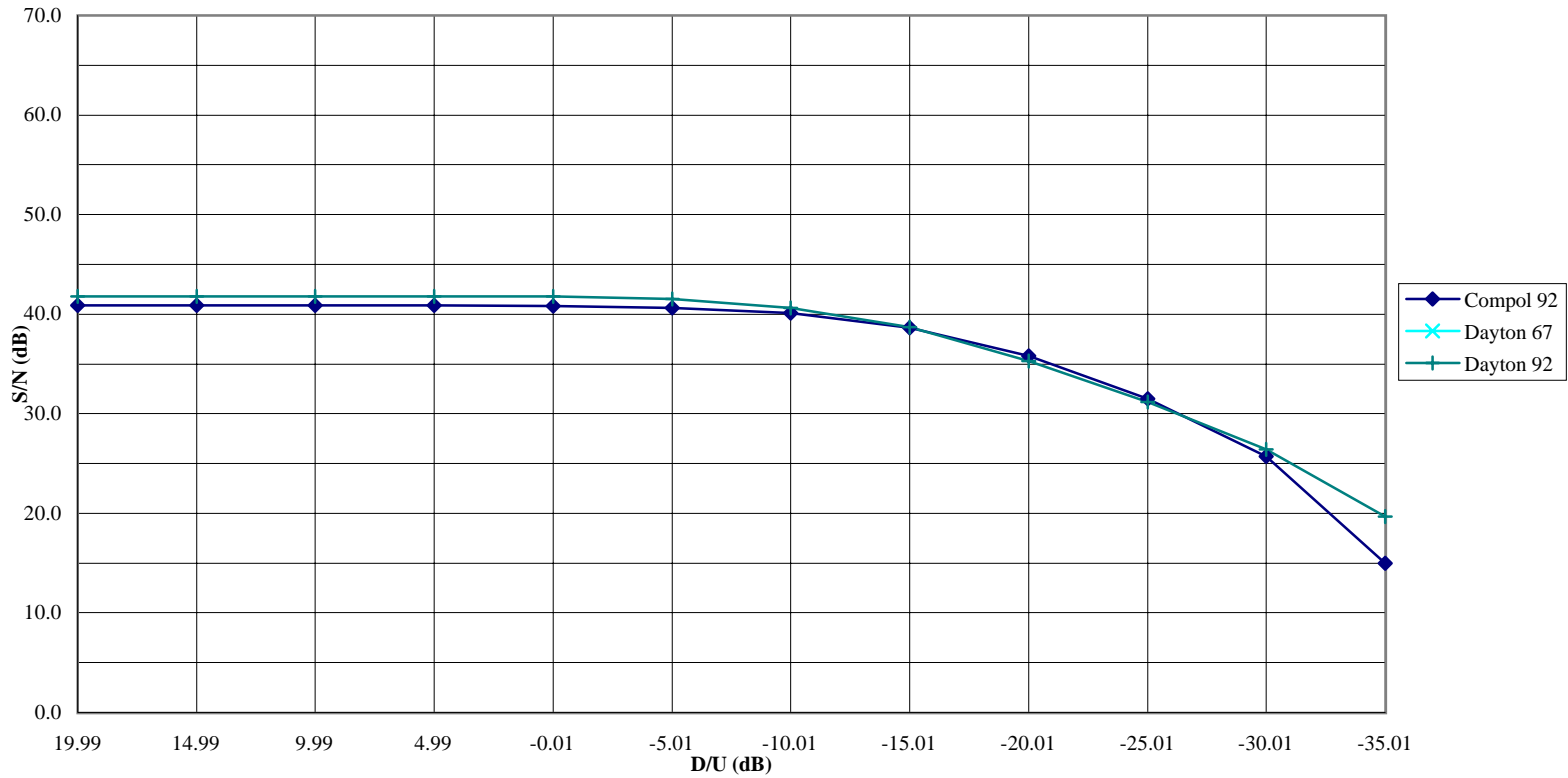
0 dB D/U = -35.01

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		59.0	51.8	51.0	53.5	58	58.0	41.8		40.9
55.0	19.99	59.0	51.8	51.0	53.5	58	58.0	41.8		40.9
50.0	14.99	59.0	51.8	51.0	53.5	58	58.0	41.8		40.9
45.0	9.99	58.9	51.8	50.9	53.5	58	58.0	41.8		40.9
40.0	4.99	58.3	51.8	50.9	53.3	57.6	57.7	41.8		40.9
35.0	-0.01	57.0	51.7	50.8	52.9	56.7	57.0	41.8		40.8
30.0	-5.01	54.2	51.2	50.8	51.7	54.9	55.3	41.5		40.6
25.0	-10.01	50.4	50.0	50.5	49.4	51.5	52.2	40.6		40.1
20.0	-15.01	45.6	47.5	50.0	45.6	47.3	48.0	38.7		38.6
15.0	-20.01	40.8	43.7	48.5	41.2	42.5	43.0	35.3		35.8
10.0	-25.01	35.8	39.2	45.6	36.3	37.6	37.5	31.2		31.5
5.0	-30.01	30.3	34.6	41.2	31.4	32.6	30.7	26.4		25.7
0.0	-35.01	24.2	30.0	36.0	26.5	27.5	20.7	19.7		15.0
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.5
 Engr(s): DML
 Date: 3/17/98

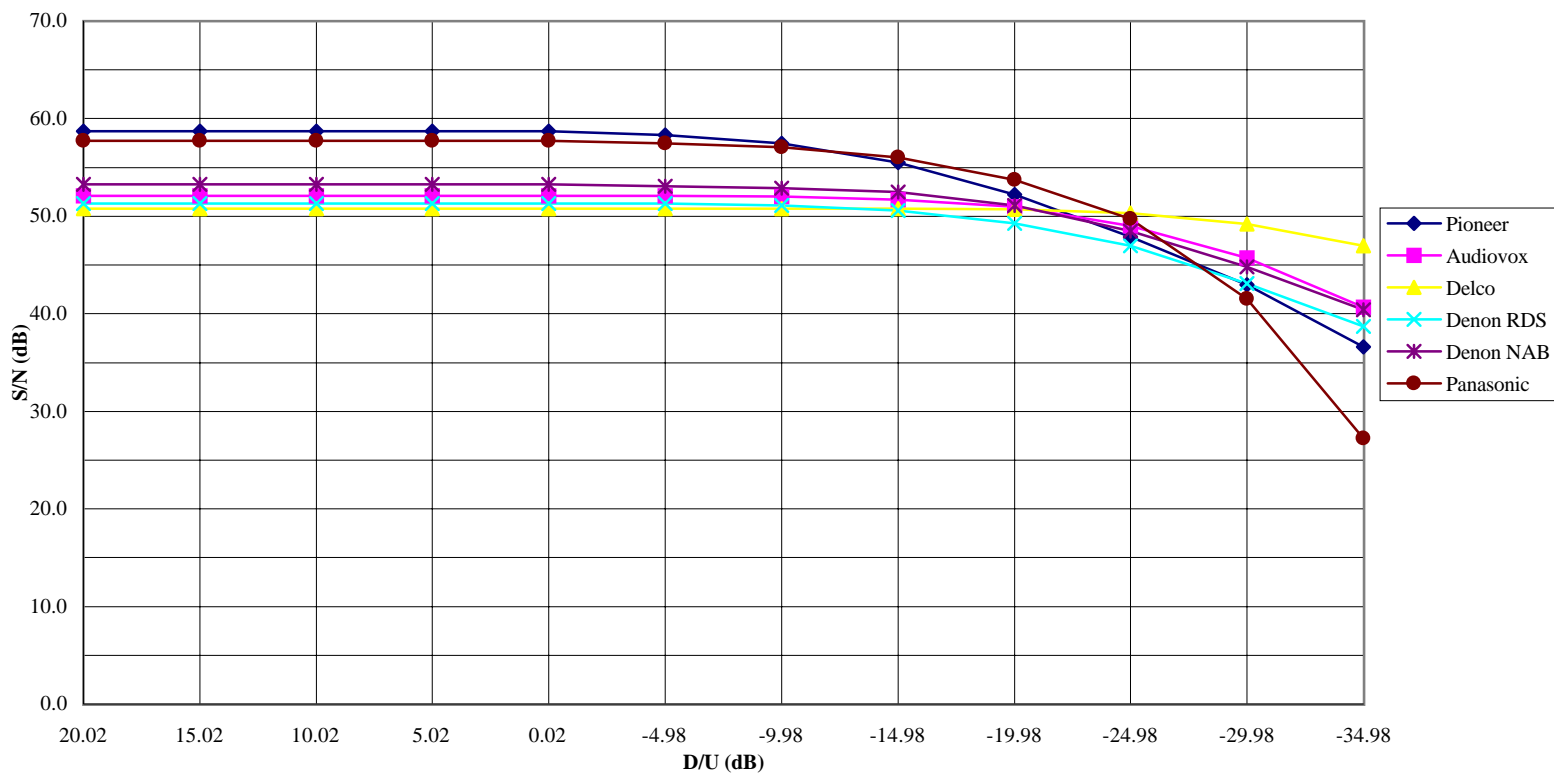
Signal Level: -56 dBm
 Corrector setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.20	-3.22

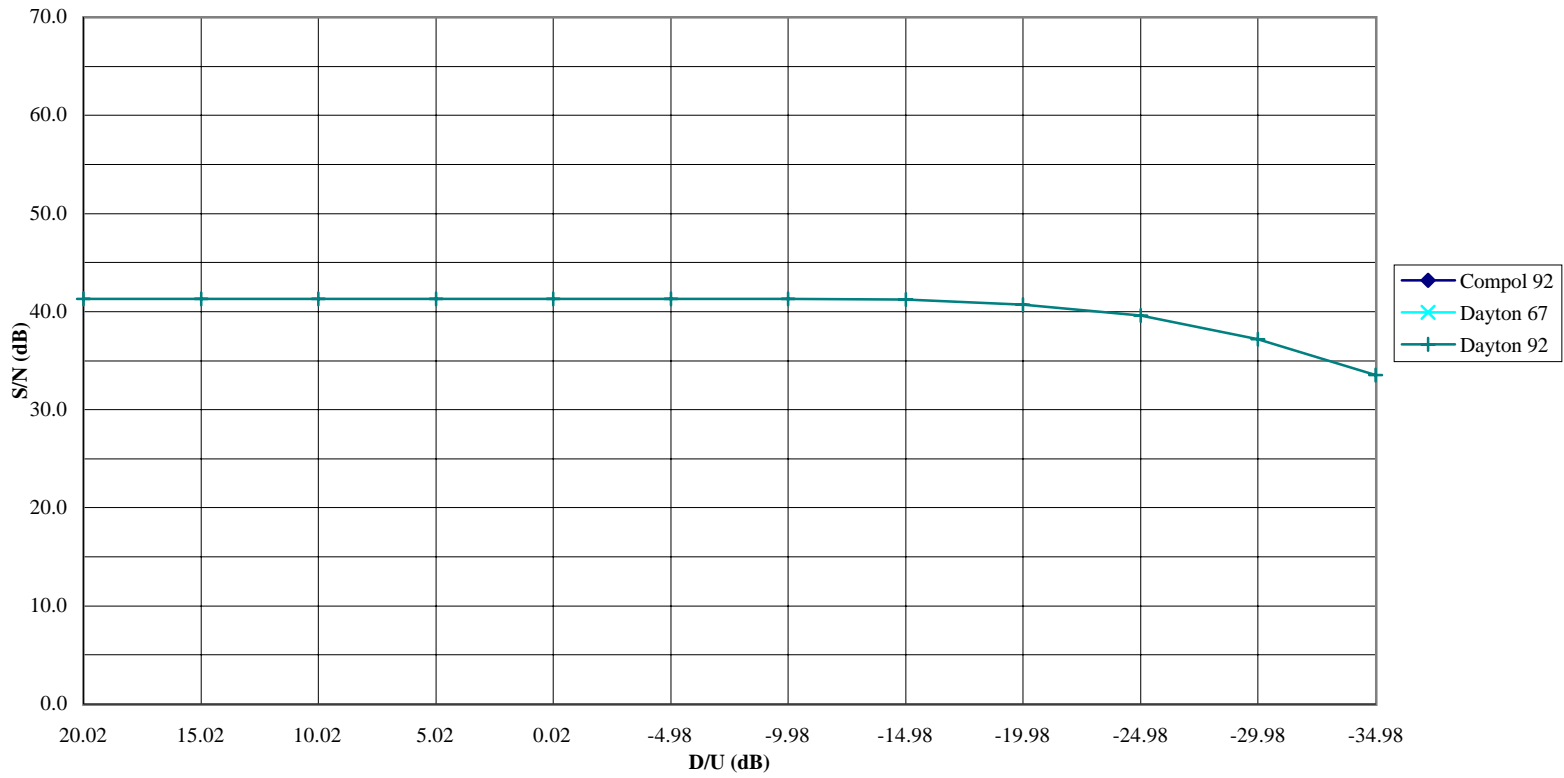
0 dB D/U = -34.98

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		58.7	52.1	50.8	51.3	53.3	57.7	41.3		
55.0	20.02	58.7	52.1	50.8	51.3	53.3	57.7	41.3		
50.0	15.02	58.7	52.1	50.8	51.3	53.3	57.7	41.3		
45.0	10.02	58.7	52.1	50.8	51.3	53.3	57.7	41.3		
40.0	5.02	58.7	52.1	50.8	51.3	53.3	57.7	41.3		
35.0	0.02	58.7	52.1	50.8	51.3	53.3	57.7	41.3		
30.0	-4.98	58.3	52.1	50.8	51.3	53.1	57.5	41.3		
25.0	-9.98	57.5	52.0	50.8	51.1	52.9	57.1	41.3		
20.0	-14.98	55.5	51.7	50.8	50.6	52.5	56.0	41.2		
15.0	-19.98	52.2	51.0	50.7	49.3	51.1	53.7	40.7		
10.0	-24.98	47.9	49.0	50.3	47.0	48.5	49.7	39.6		
5.0	-29.98	43.0	45.7	49.2	43.1	44.8	41.5	37.2		
0.0	-34.98	36.6	40.7	47.0	38.7	40.4	27.2	33.5		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.6
 Engr(s): DML, RMc
 Date: 3/13/98

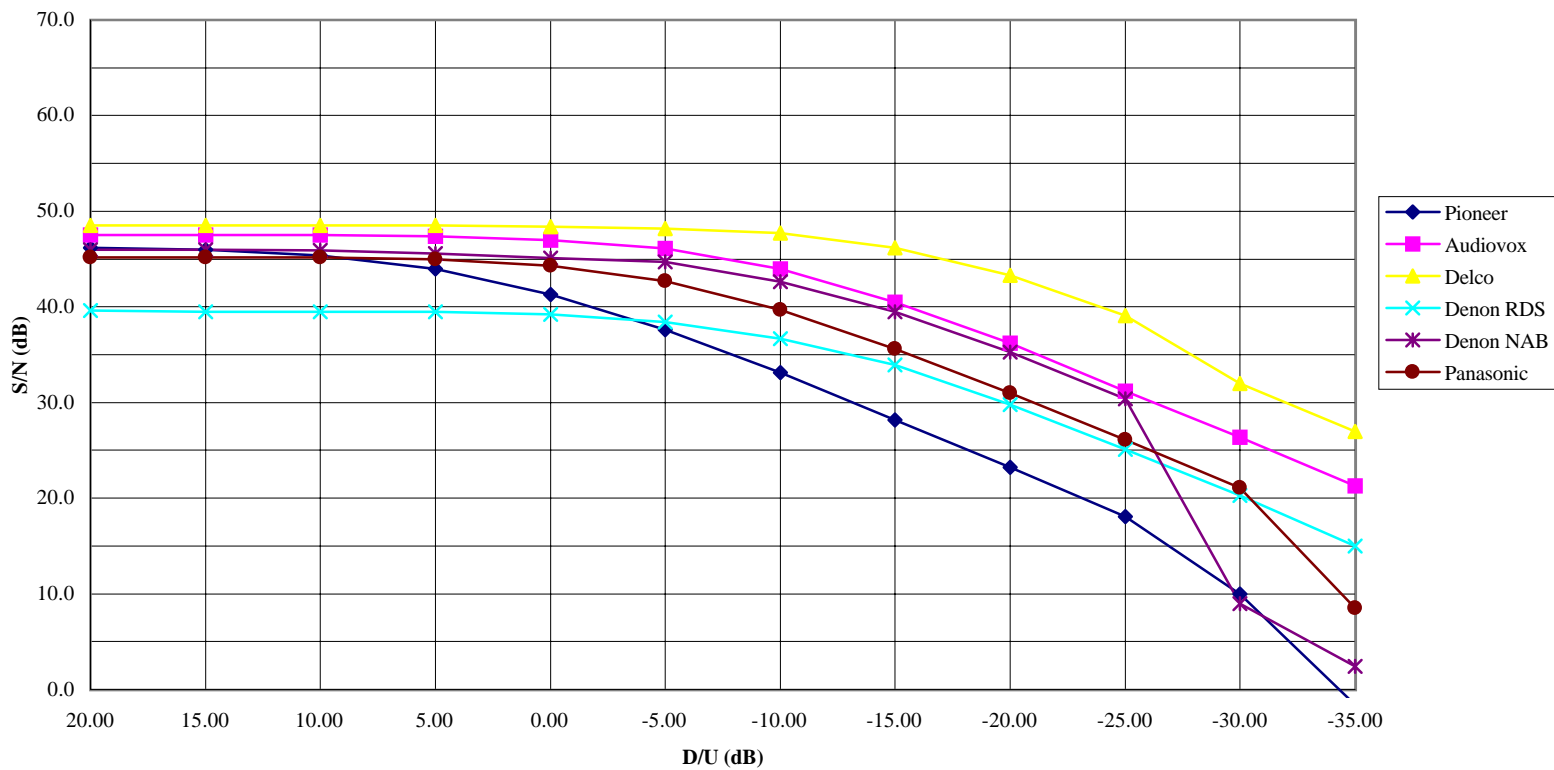
Signal Level: -71 dBm
 Corrector Setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.08	-3.08

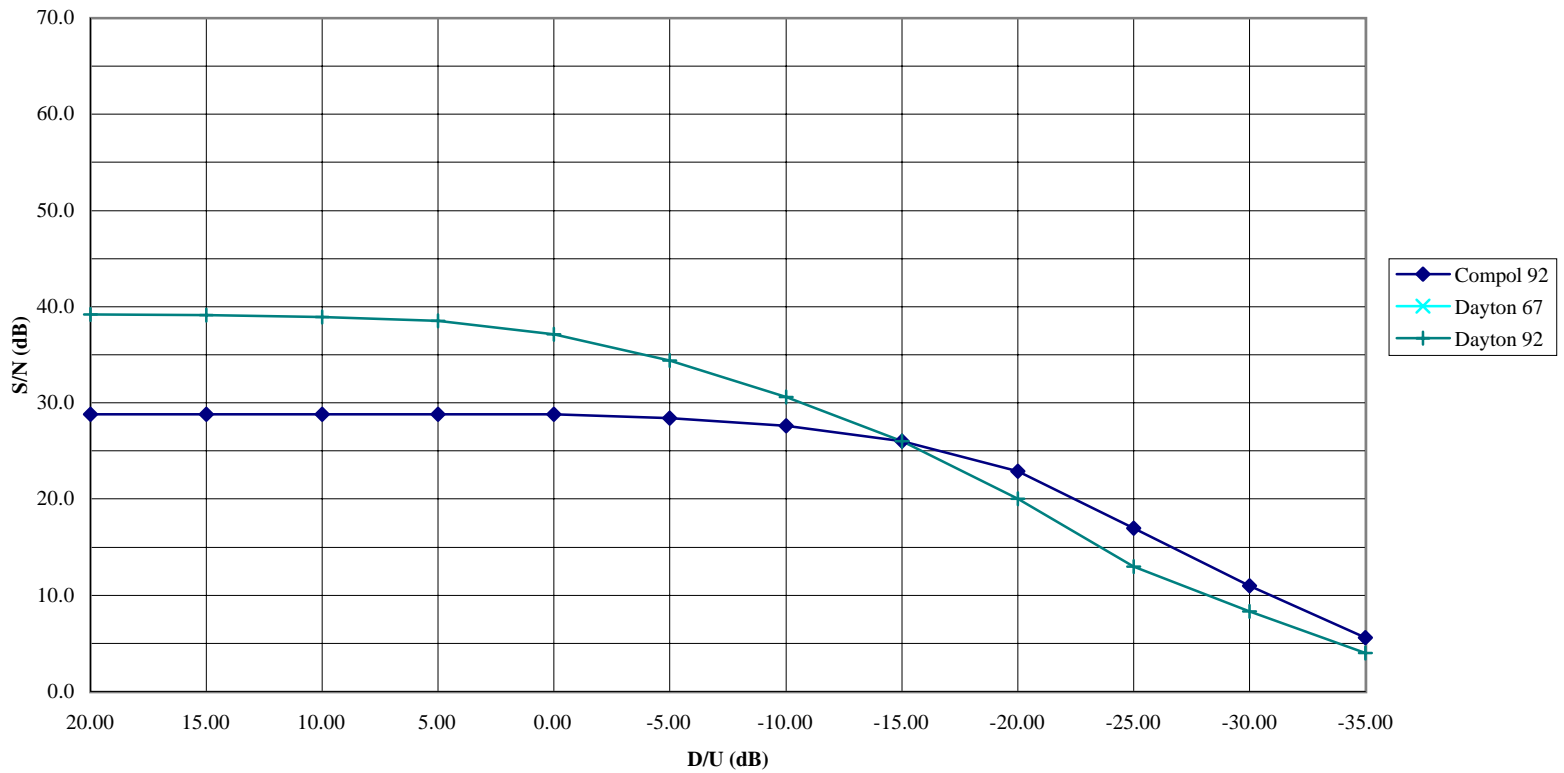
0 dB D/U = -35.00

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		46.4	47.5	48.5	39.6	46.1	45.3	39.2		28.8
55.0	20.00	46.2	47.5	48.5	39.6	46	45.2	39.2		28.8
50.0	15.00	46.0	47.5	48.5	39.5	46	45.2	39.1		28.8
45.0	10.00	45.4	47.5	48.5	39.5	45.9	45.2	38.9		28.8
40.0	5.00	44.0	47.4	48.5	39.5	45.6	45.0	38.5		28.8
35.0	0.00	41.3	47.0	48.4	39.2	45.1	44.3	37.1		28.8
30.0	-5.00	37.6	46.1	48.2	38.4	44.7	42.7	34.4		28.4
25.0	-10.00	33.1	44.0	47.7	36.7	42.6	39.7	30.6		27.6
20.0	-15.00	28.2	40.5	46.2	33.9	39.5	35.6	26.0		26.0
15.0	-20.00	23.2	36.2	43.3	29.8	35.3	31.0	20.0		22.9
10.0	-25.00	18.1	31.2	39.1	25.1	30.4	26.1	13.0		17.0
5.0	-30.00	10.0	26.4	32.0	20.3	9.0	21.1	8.3		11.0
0.0	-35.00	-1.6	21.3	27.0	15.0	2.4	8.5	4.0		5.6
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.7
 Engr(s): DML, RMc
 Date: 3/13/98

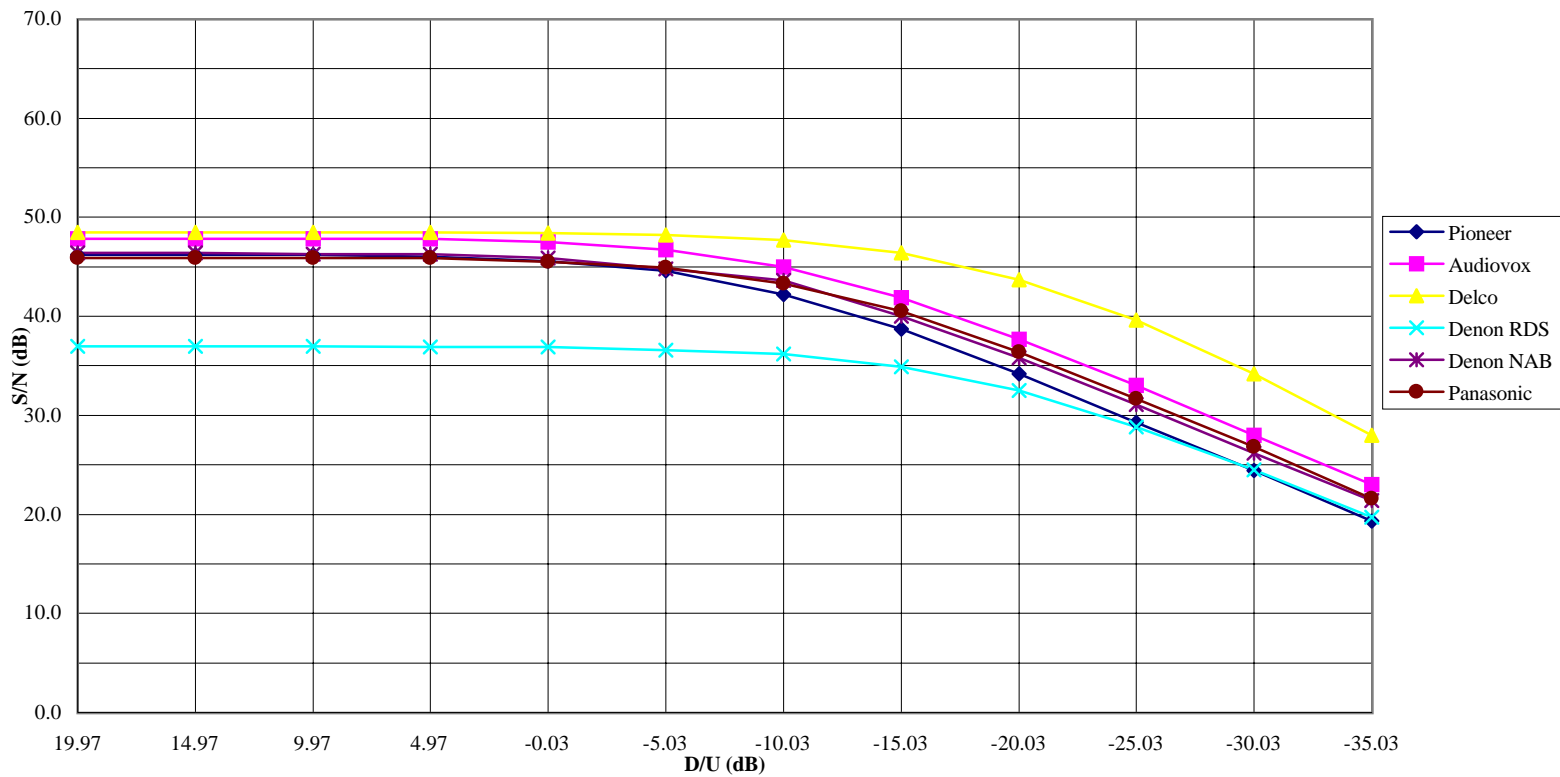
Signal Level: -71 dBm
 Corrector Setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.11	-3.08

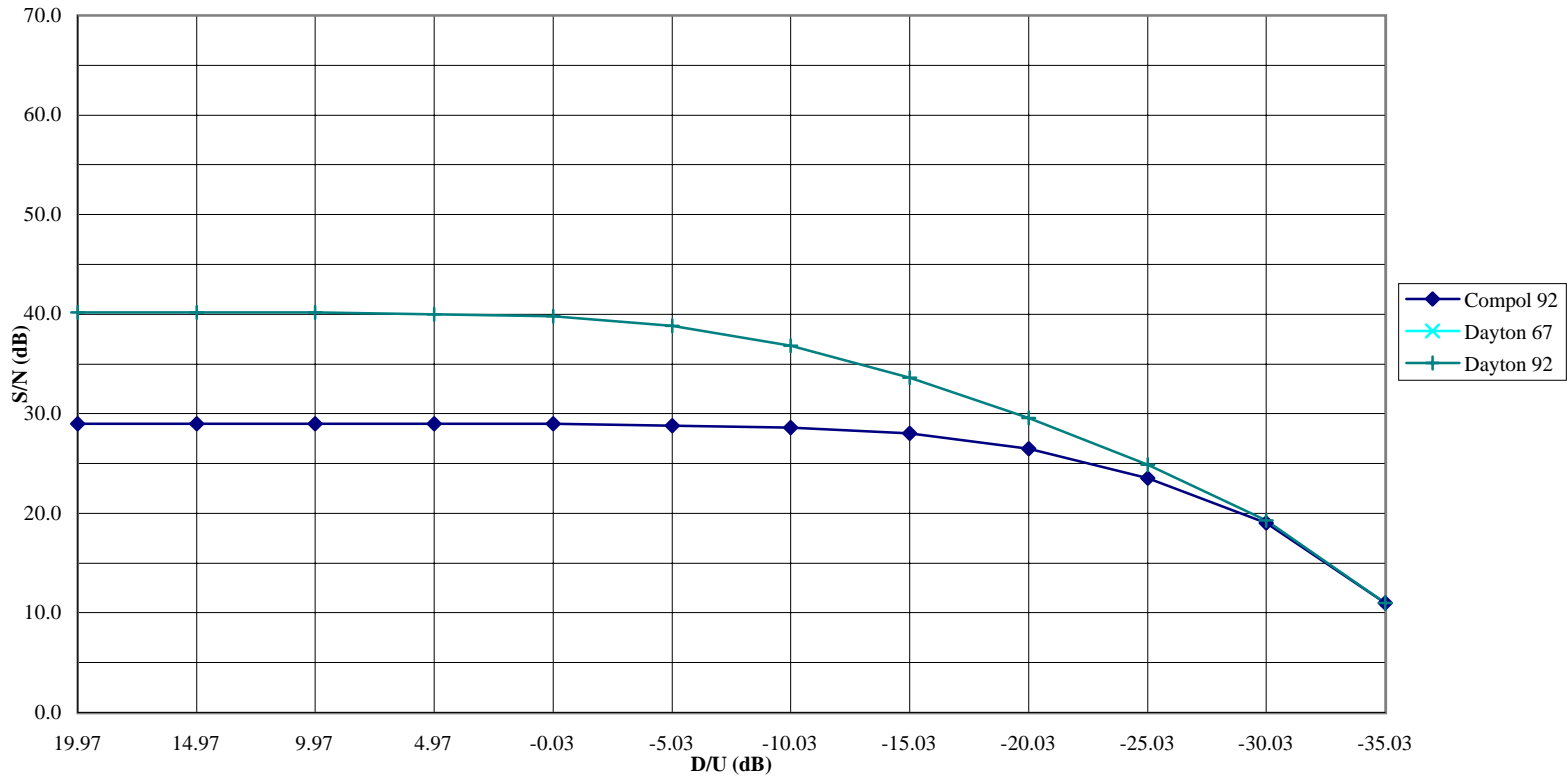
0 dB D/U = -35.03

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		46.2	47.8	48.5	37.0	46.4	45.9	40.2		29.0
55.0	19.97	46.2	47.8	48.5	37.0	46.4	45.9	40.2		29.0
50.0	14.97	46.2	47.8	48.5	37.0	46.4	45.9	40.2		29.0
45.0	9.97	46.2	47.8	48.5	37.0	46.3	45.9	40.2		29.0
40.0	4.97	46.0	47.8	48.5	36.9	46.3	45.9	40.0		29.0
35.0	-0.03	45.6	47.5	48.4	36.9	45.9	45.5	39.8		29.0
30.0	-5.03	44.6	46.7	48.2	36.6	44.8	44.9	38.8		28.8
25.0	-10.03	42.2	45.0	47.7	36.2	43.6	43.3	36.8		28.6
20.0	-15.03	38.7	41.9	46.4	34.9	40.0	40.5	33.6		28.0
15.0	-20.03	34.2	37.7	43.7	32.5	35.8	36.4	29.6		26.5
10.0	-25.03	29.3	33.0	39.6	28.8	31.1	31.7	24.9		23.5
5.0	-30.03	24.4	28.0	34.2	24.5	26.2	26.8	19.3		19.0
0.0	-35.03	19.3	23.0	28.0	19.7	21.4	21.6	11.0		11.0
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.8
 Engr(s): DML
 Date: 3/16/98

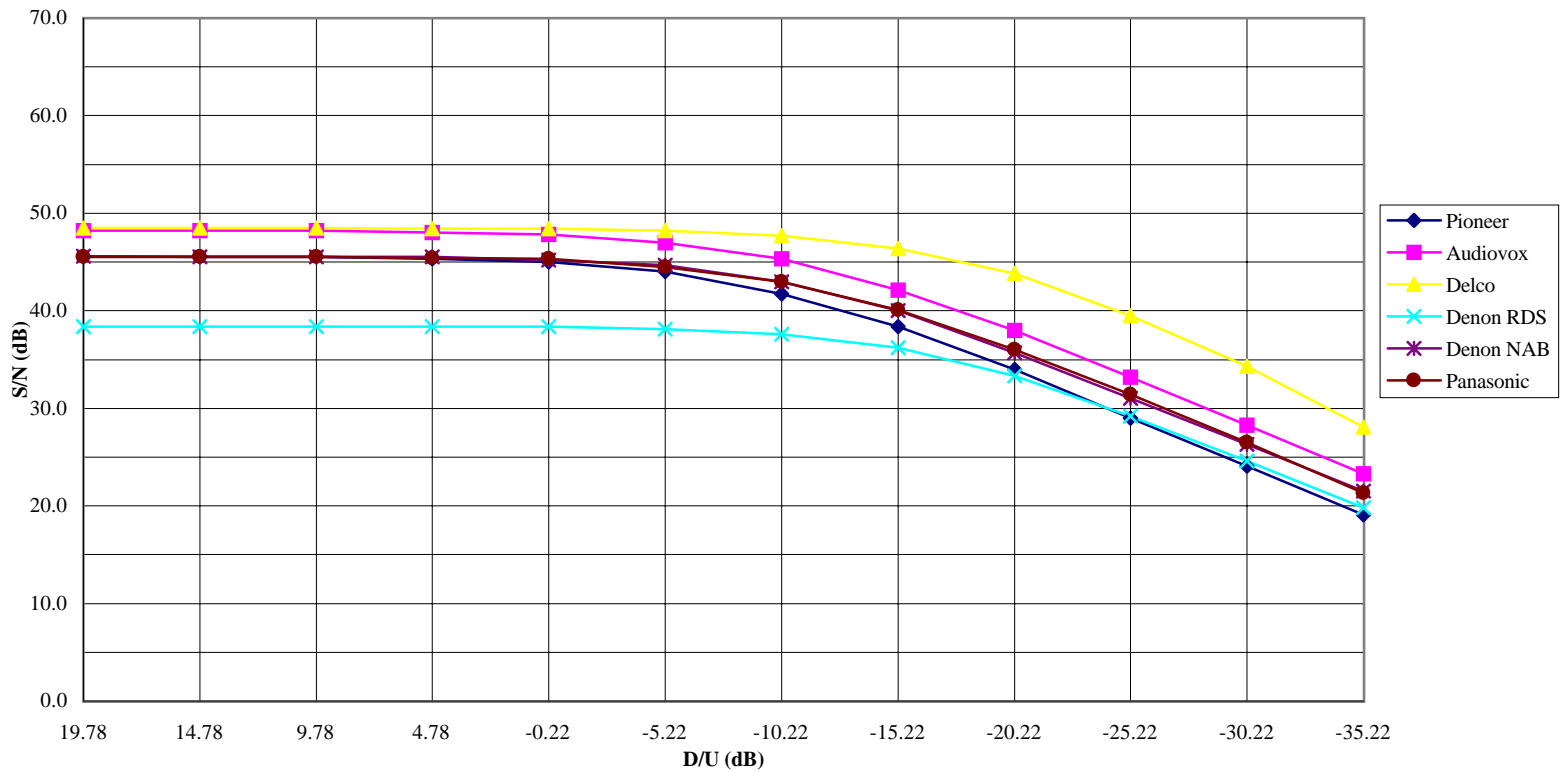
Signal Level: -71 dBm
 Corrector Setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.04	-2.82

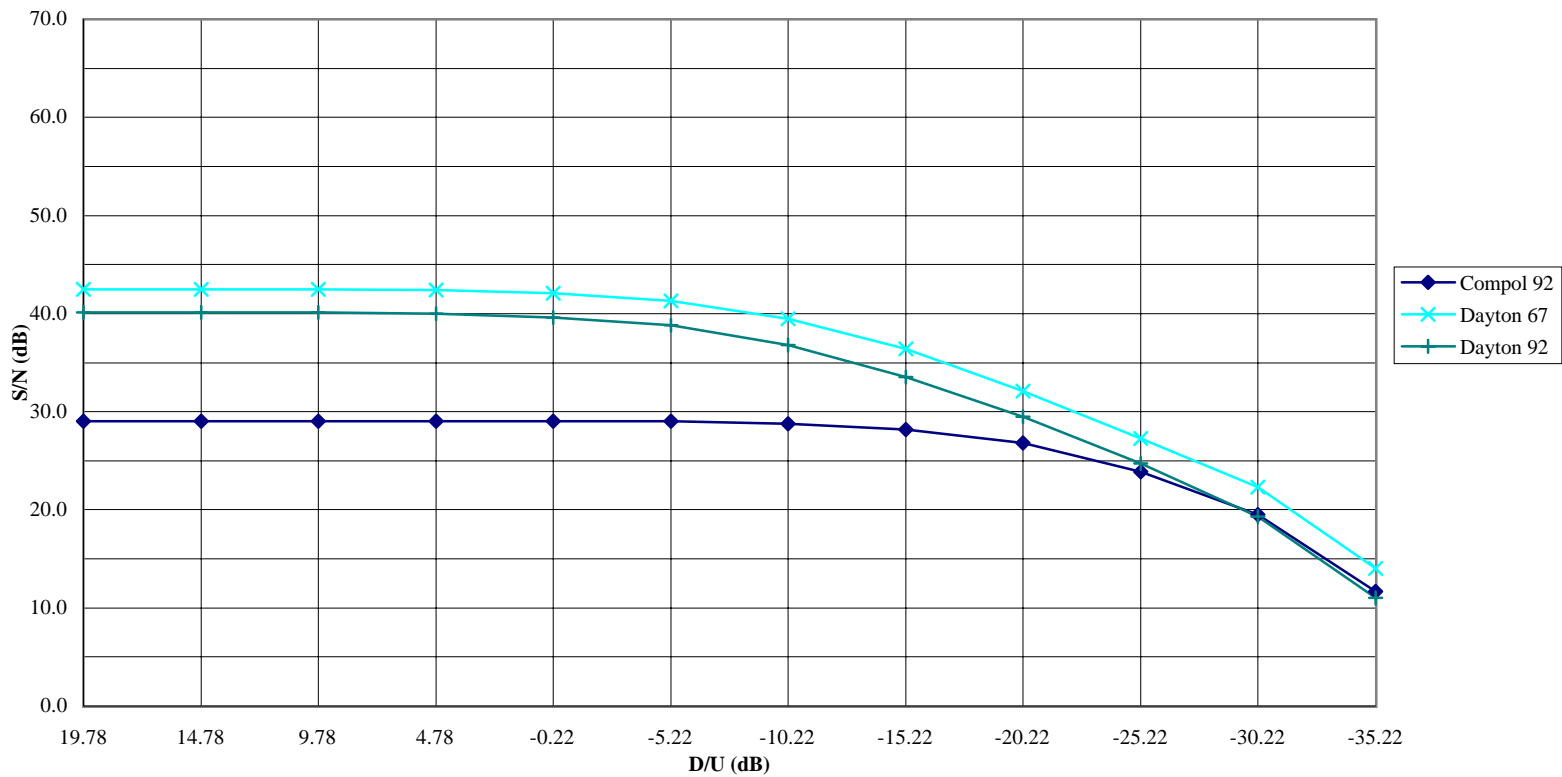
0 dB D/U = -35.22

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		45.5	48.2	48.5	38.5	45.6	45.5	40.1	42.5	29.0
55.0	19.78	45.5	48.2	48.5	38.4	45.6	45.5	40.1	42.5	29.0
50.0	14.78	45.5	48.2	48.5	38.4	45.5	45.5	40.1	42.5	29.0
45.0	9.78	45.5	48.2	48.5	38.4	45.5	45.5	40.1	42.5	29.0
40.0	4.78	45.3	48.0	48.4	38.4	45.5	45.4	40.0	42.4	29.0
35.0	-0.22	45.0	47.8	48.4	38.4	45.2	45.3	39.6	42.1	29.0
30.0	-5.22	44.0	47.0	48.2	38.1	44.7	44.5	38.8	41.3	29.0
25.0	-10.22	41.7	45.3	47.7	37.6	43.0	43.0	36.8	39.5	28.8
20.0	-15.22	38.4	42.1	46.4	36.2	40.0	40.1	33.5	36.4	28.2
15.0	-20.22	34.0	38.0	43.8	33.3	35.7	36.0	29.5	32.1	26.8
10.0	-25.22	29.0	33.2	39.5	29.2	31.0	31.4	24.7	27.3	23.9
5.0	-30.22	24.1	28.3	34.3	24.6	26.3	26.5	19.3	22.3	19.5
0.0	-35.22	19.1	23.3	28.1	19.8	21.5	21.3	11.0	14.0	11.7
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.9
 Engr(s): DML
 Date: 3/17/98

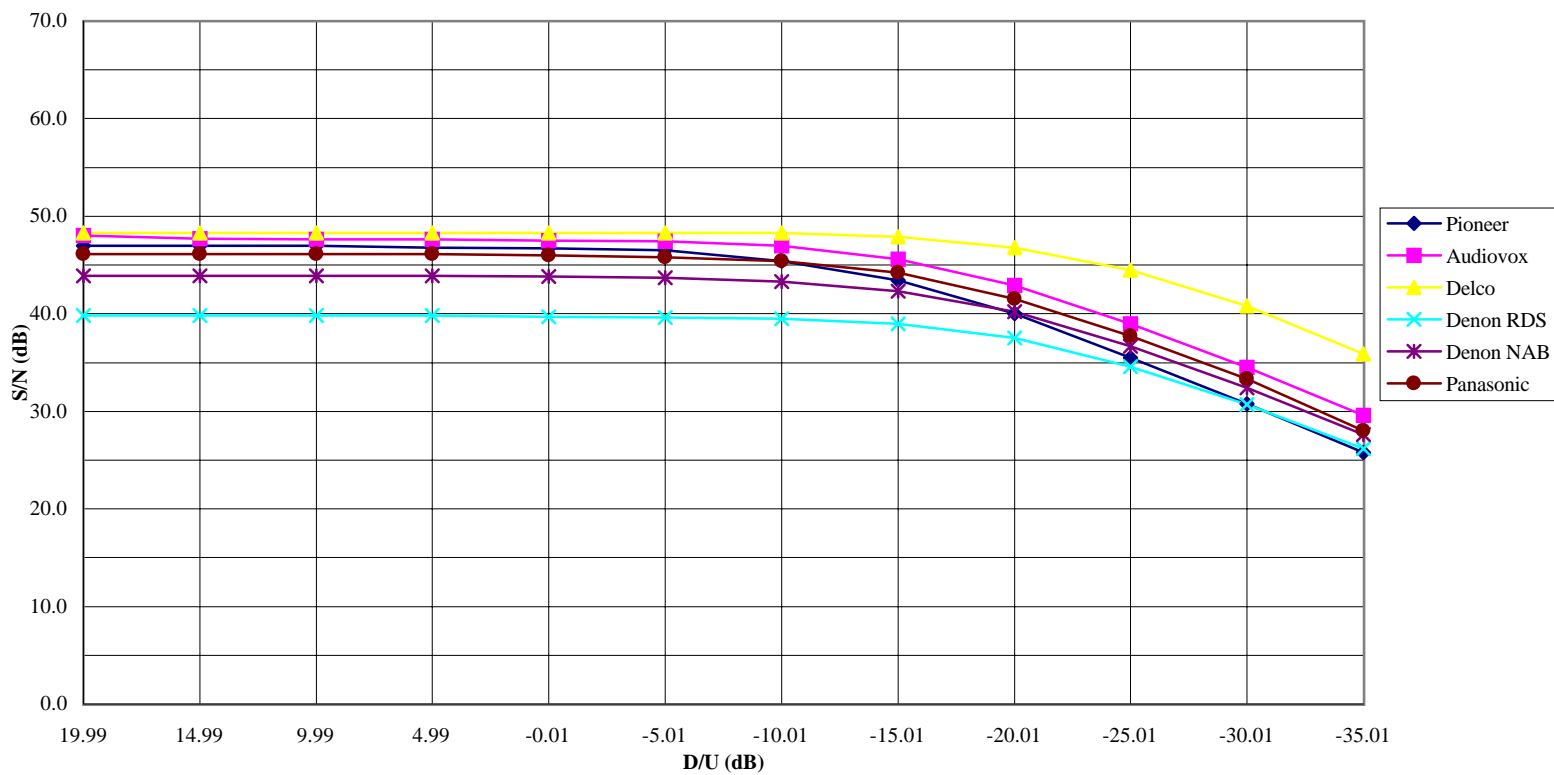
Signal Level: -71 dBm
 Corrector Setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.10	-3.09

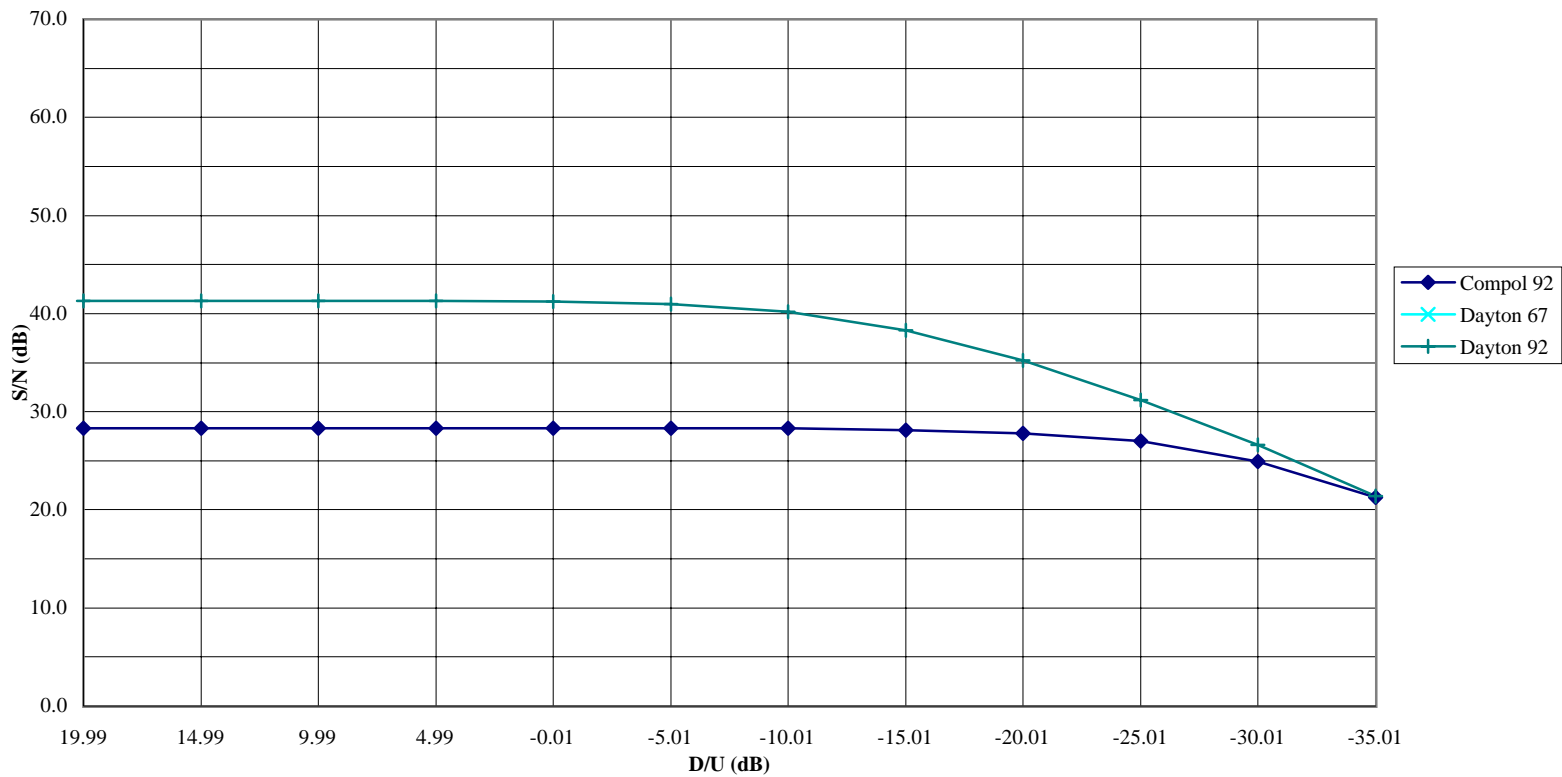
0 dB D/U = -35.01

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		47.0	48.0	48.3	39.8	43.9	46.1	41.3		28.3
55.0	19.99	47.0	48.0	48.3	39.8	43.9	46.1	41.3		28.3
50.0	14.99	47.0	47.7	48.3	39.8	43.9	46.1	41.3		28.3
45.0	9.99	47.0	47.6	48.3	39.8	43.9	46.1	41.3		28.3
40.0	4.99	46.8	47.6	48.3	39.8	43.9	46.1	41.3		28.3
35.0	-0.01	46.7	47.5	48.3	39.7	43.8	46.0	41.2		28.3
30.0	-5.01	46.5	47.4	48.3	39.6	43.7	45.8	41.0		28.3
25.0	-10.01	45.4	47.0	48.3	39.5	43.3	45.4	40.2		28.3
20.0	-15.01	43.4	45.6	47.9	39.0	42.3	44.2	38.3		28.1
15.0	-20.01	40.0	42.9	46.8	37.5	40.2	41.5	35.2		27.8
10.0	-25.01	35.5	39.0	44.5	34.6	36.7	37.7	31.2		27.0
5.0	-30.01	30.8	34.5	40.8	30.7	32.4	33.3	26.6		24.9
0.0	-35.01	25.8	29.6	35.9	26.2	27.6	28.0	21.4		21.3
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.4.10
 Engr(s): DML
 Date: 3/17/98

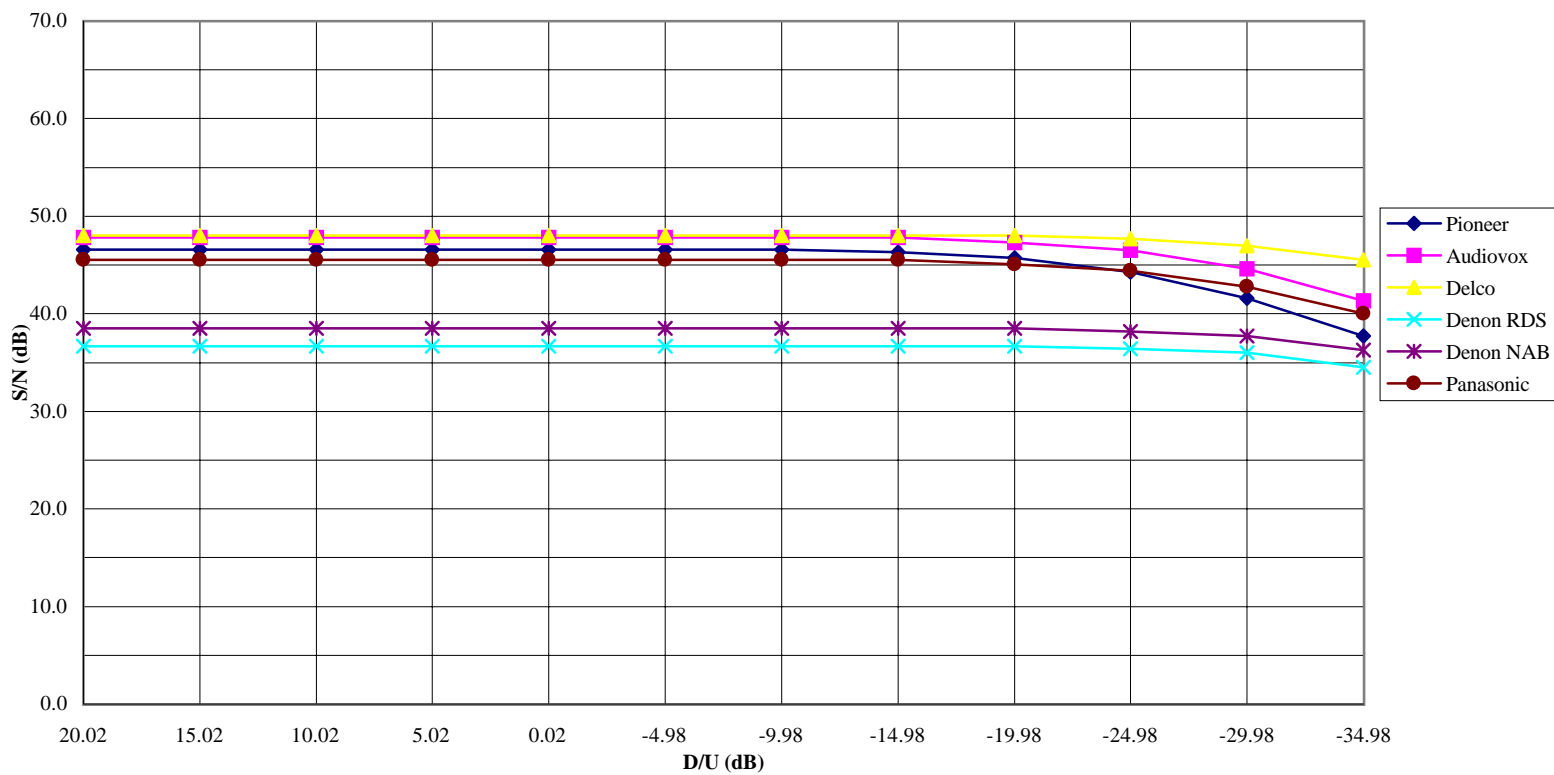
Signal Level: -71 dBm
 Corrector Setting: 4

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.20	-3.22

0 dB D/U = -34.98

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		46.6	47.8	48.0	36.7	38.5	45.5	41.2		
55.0	20.02	46.6	47.8	48.0	36.7	38.5	45.5	41.2		
50.0	15.02	46.6	47.8	48.0	36.7	38.5	45.5	41.2		
45.0	10.02	46.6	47.8	48.0	36.7	38.5	45.5	41.2		
40.0	5.02	46.6	47.8	48.0	36.7	38.5	45.5	41.2		
35.0	0.02	46.6	47.8	48.0	36.7	38.5	45.5	41.2		
30.0	-4.98	46.6	47.8	48.0	36.7	38.5	45.5	41.2		
25.0	-9.98	46.6	47.8	48.0	36.7	38.5	45.5	41.2		
20.0	-14.98	46.3	47.8	48.0	36.7	38.5	45.5	40.9		
15.0	-19.98	45.7	47.3	48.0	36.7	38.5	45.1	40.4		
10.0	-24.98	44.3	46.5	47.7	36.4	38.2	44.4	39.4		
5.0	-29.98	41.6	44.6	47.0	36.0	37.7	42.8	37.0		
0.0	-34.98	37.7	41.3	45.5	34.5	36.3	40.0	33.5		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U

