

청도2터널(부산) 초음파탐사 1

탐사위치	6S 천단부		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	23.9	10	24.5
20	47.2	20	49.2
30	73.1	30	74.2
40	97.5	40	97.2
50	122.9	50	123.5
초음파속도 Vi	4.03	초음파속도 Vi	4.06

$y = 0.402x + 0.639$
 $R^2 = 0.999$

$y = 0.406x + 0.041$
 $R^2 = 0.999$

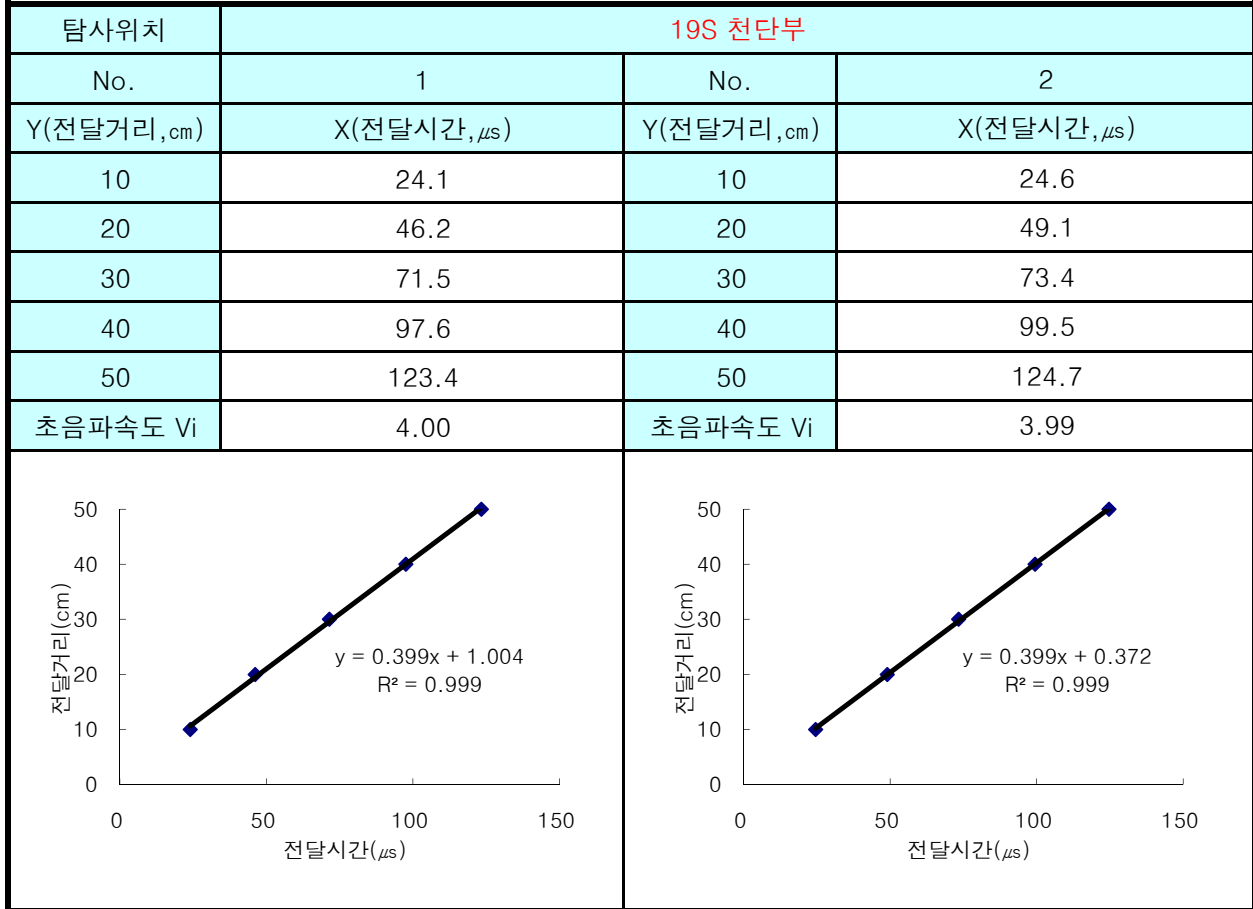
청도2터널(부산) 초음파탐사 2

탐사위치	10S 천단부		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	23.9	10	21.8
20	46.8	20	45.2
30	71.5	30	72.1
40	95.6	40	97.5
50	121.1	50	123.5
초음파속도 Vi	4.11	초음파속도 Vi	3.91

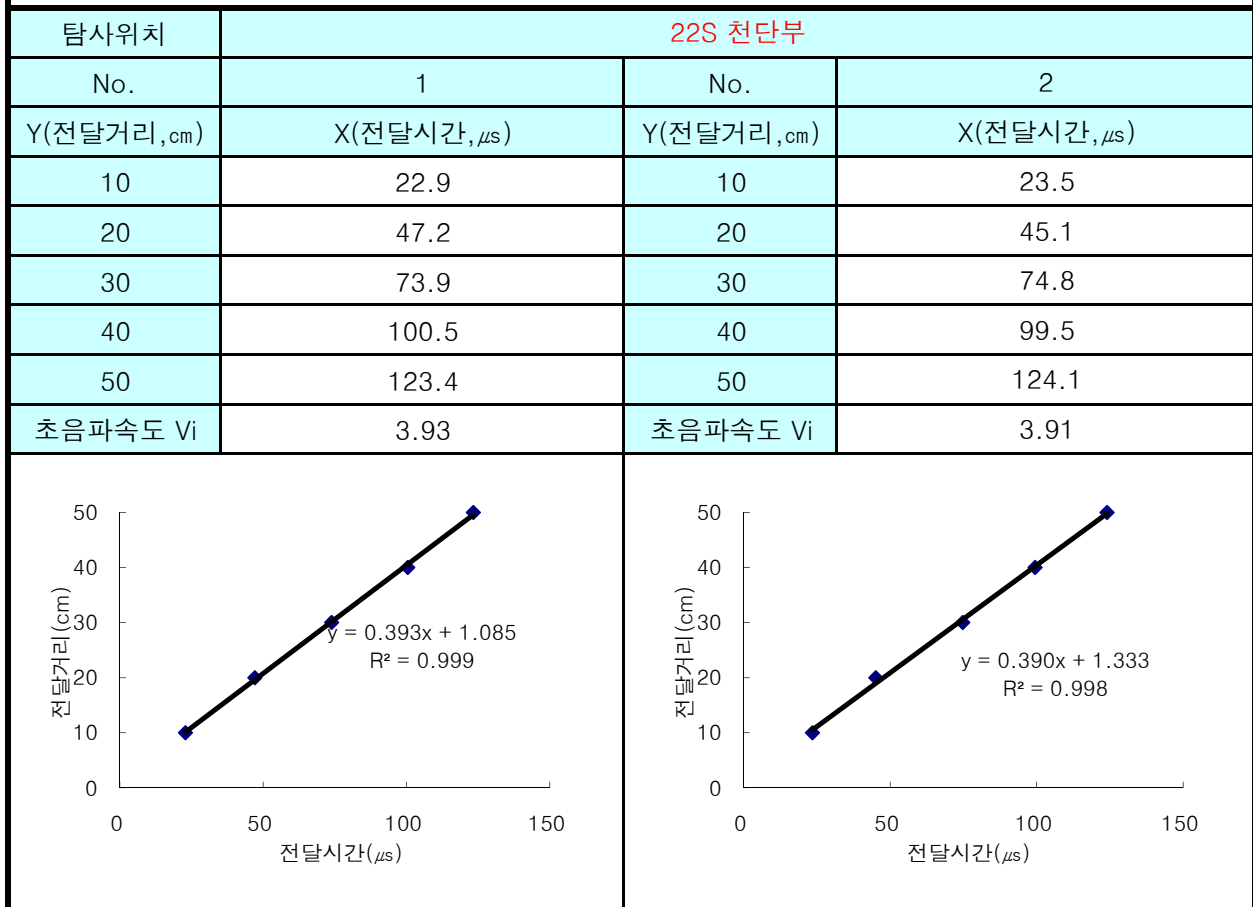
$y = 0.411x + 0.494$
 $R^2 = 0.999$

$y = 0.390x + 1.845$
 $R^2 = 0.999$

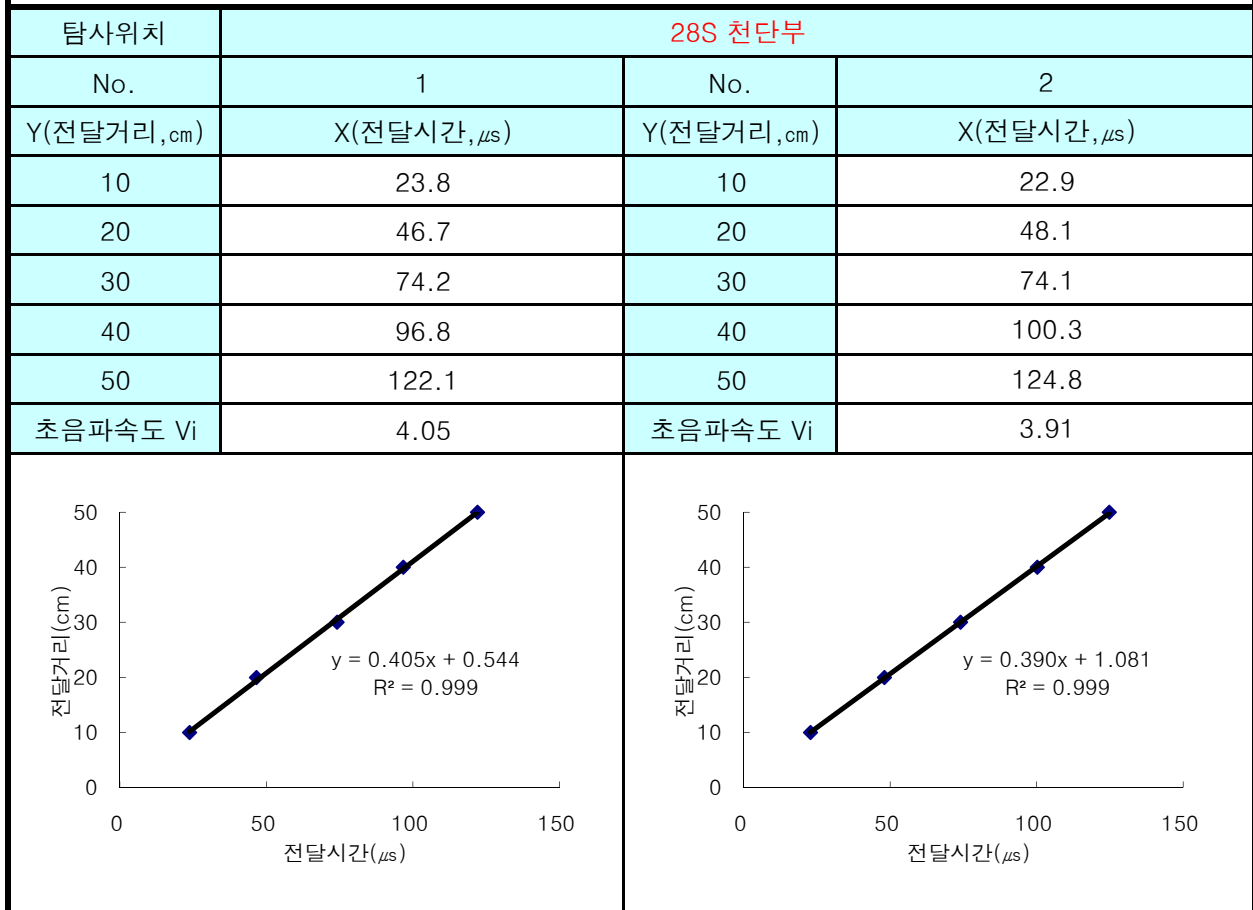
청도2터널(부산) 초음파탐사 3



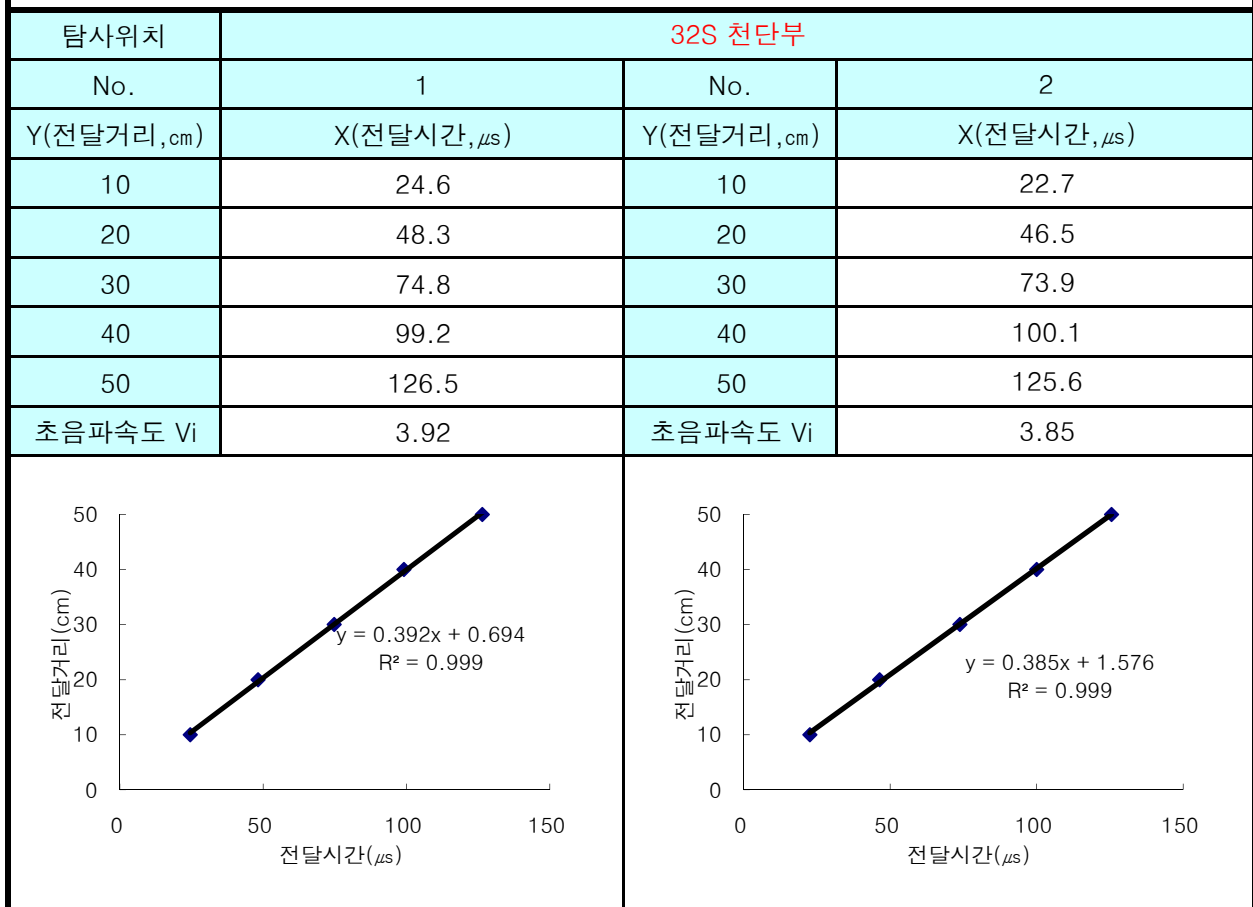
청도2터널(부산) 초음파탐사 4



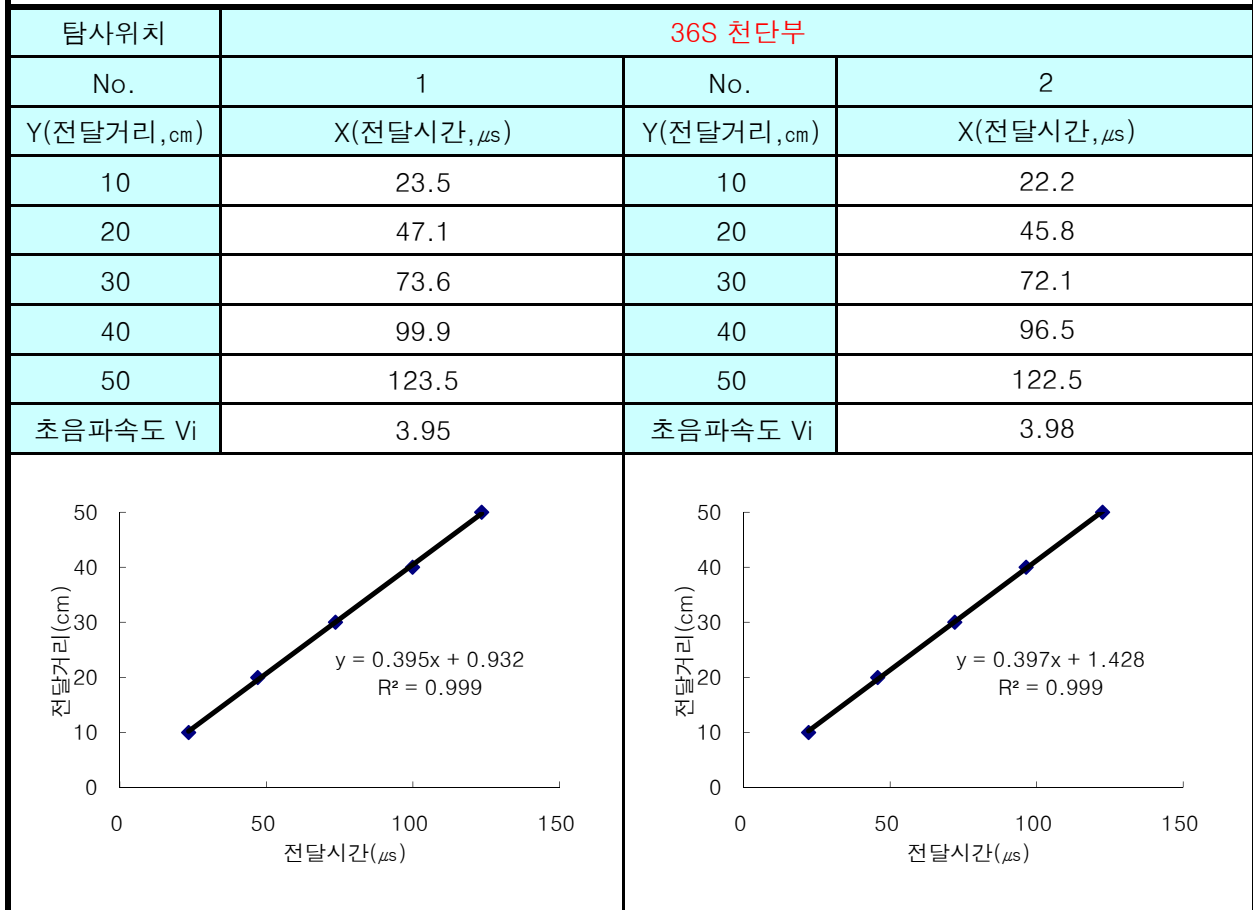
청도2터널(부산) 초음파탐사 5



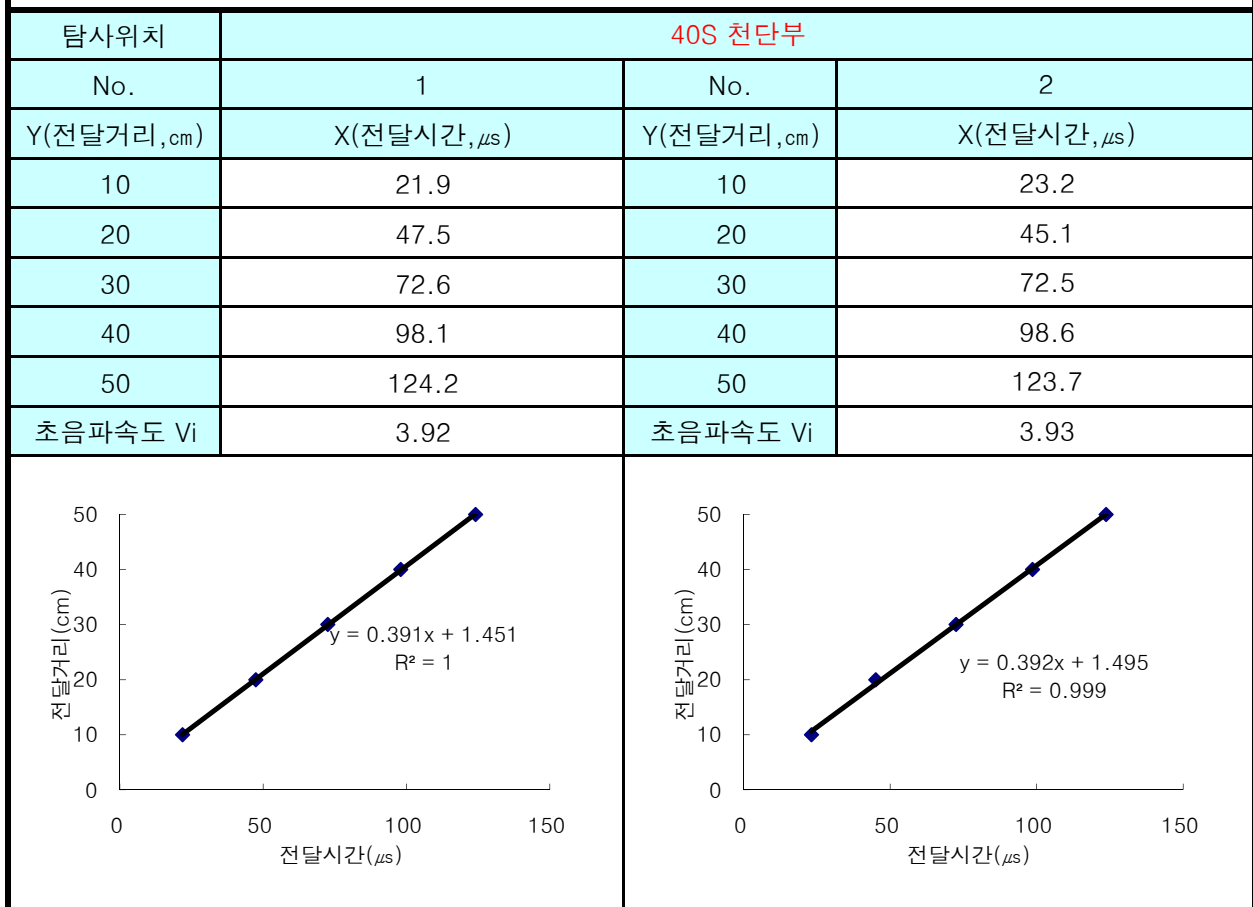
청도2터널(부산) 초음파탐사 6



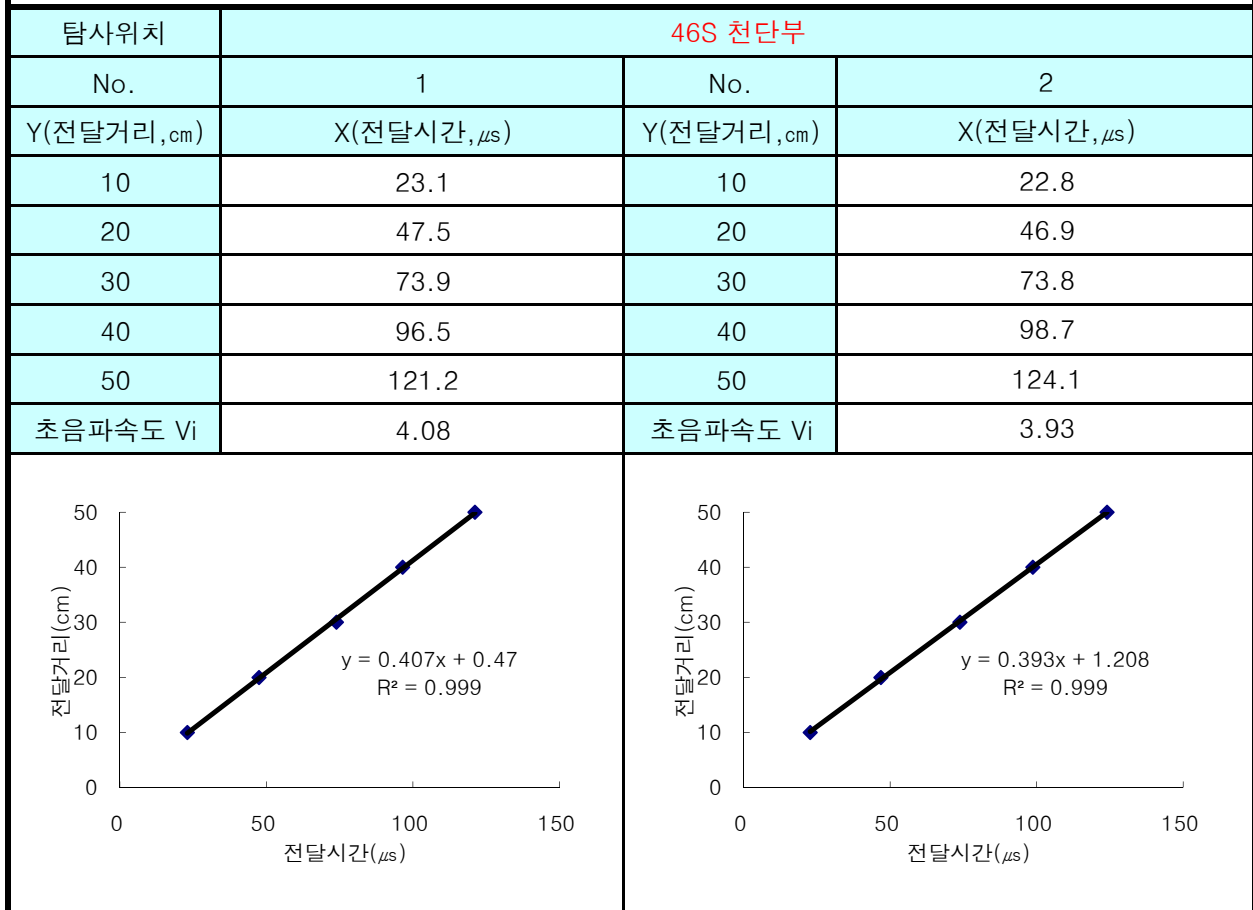
청도2터널(부산) 초음파탐사 7



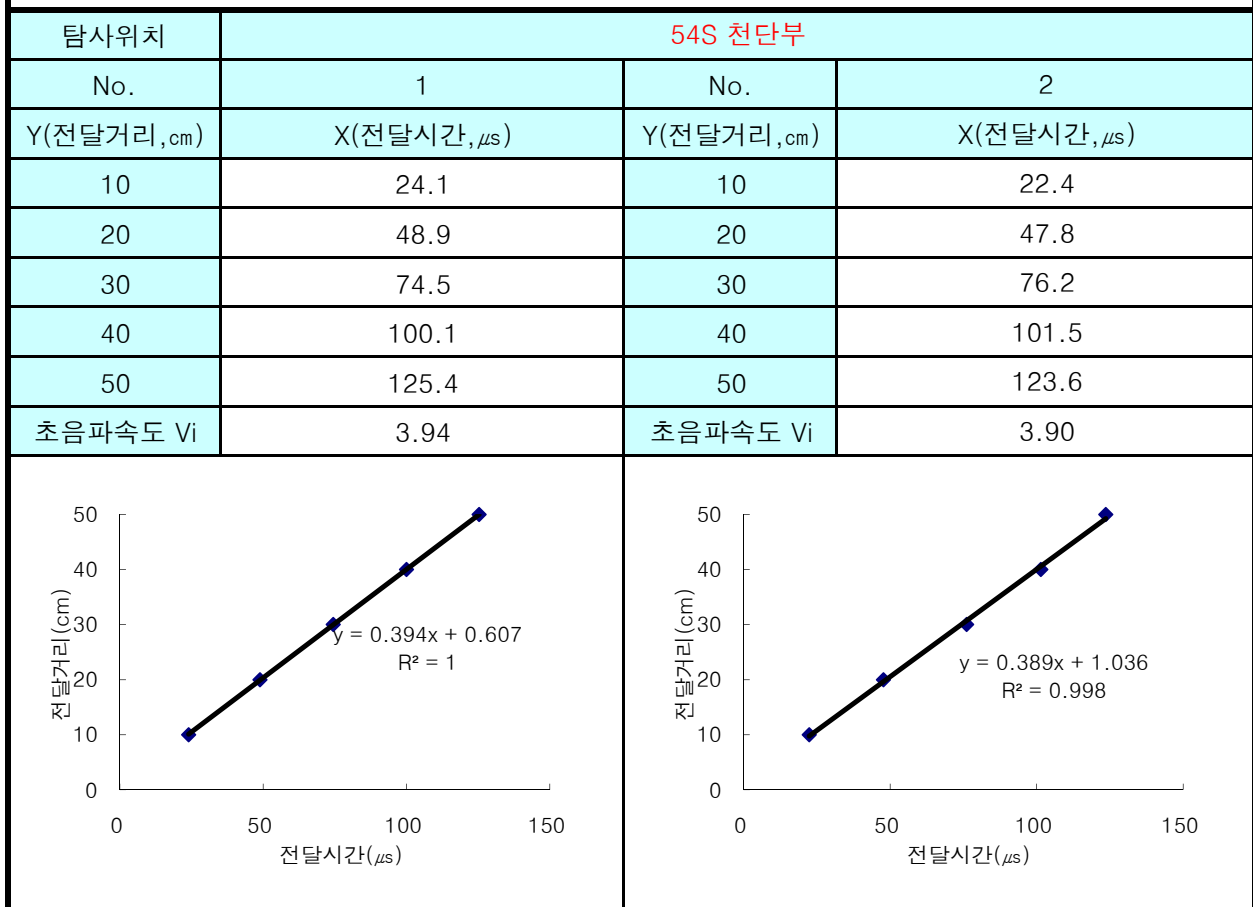
청도2터널(부산) 초음파탐사 8



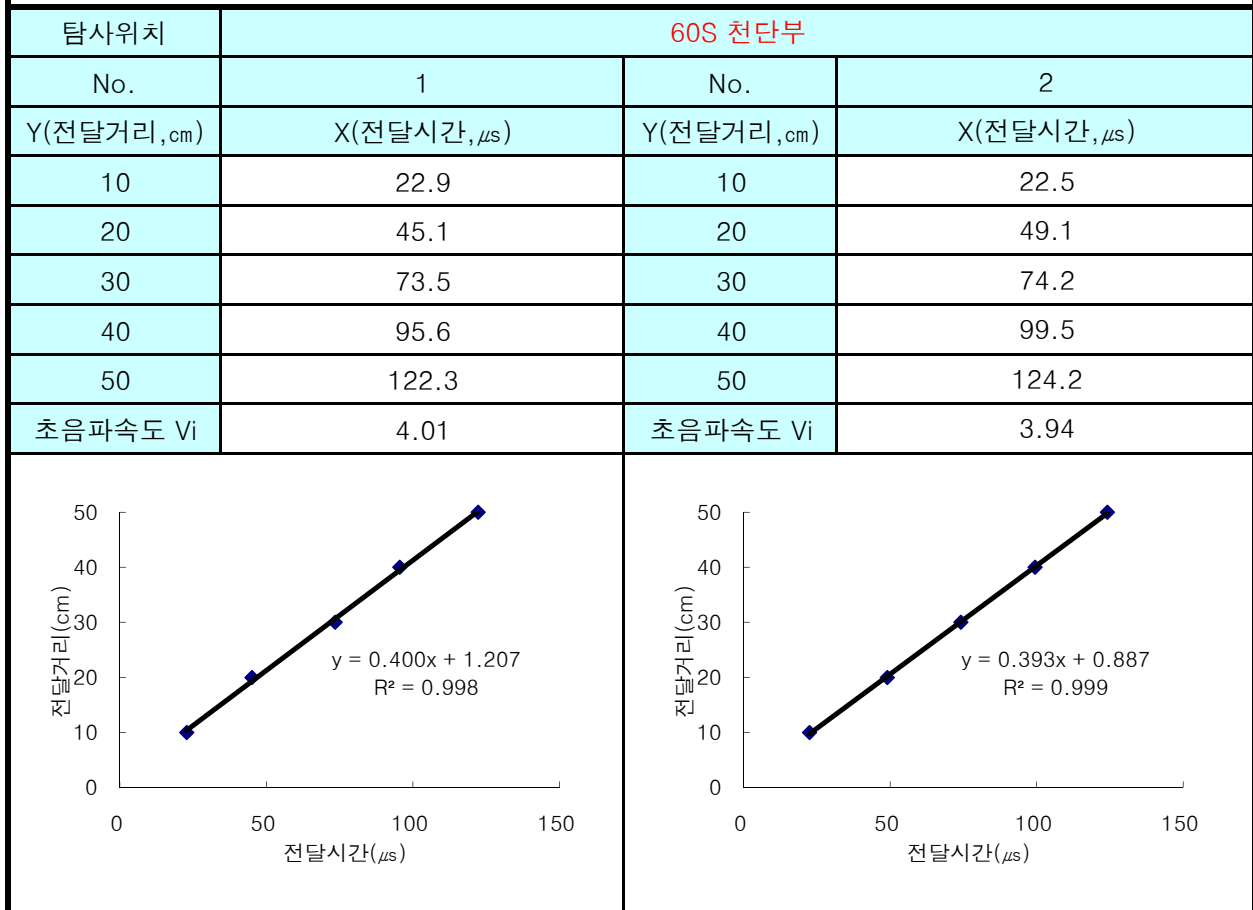
청도2터널(부산) 초음파탐사 9



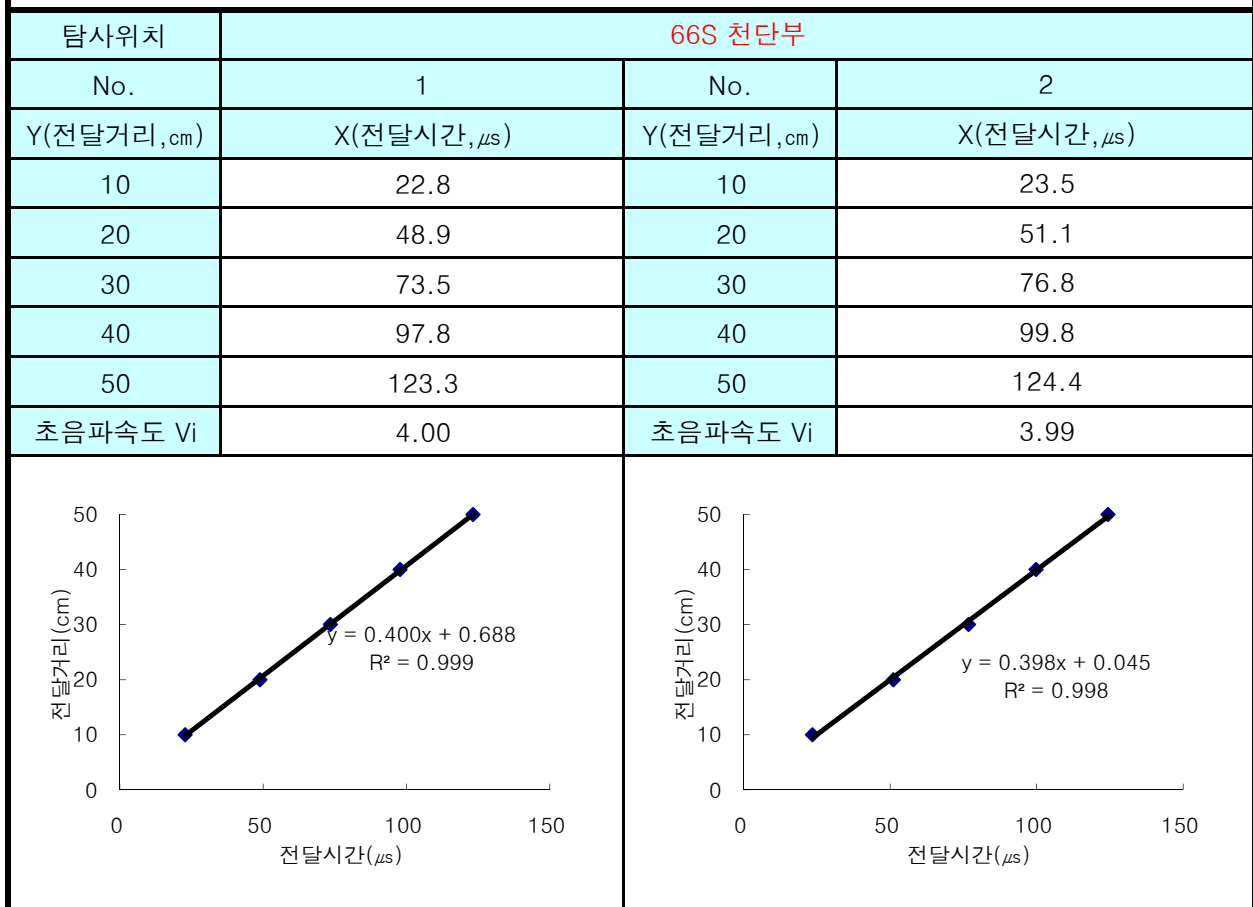
청도2터널(부산) 초음파탐사 10



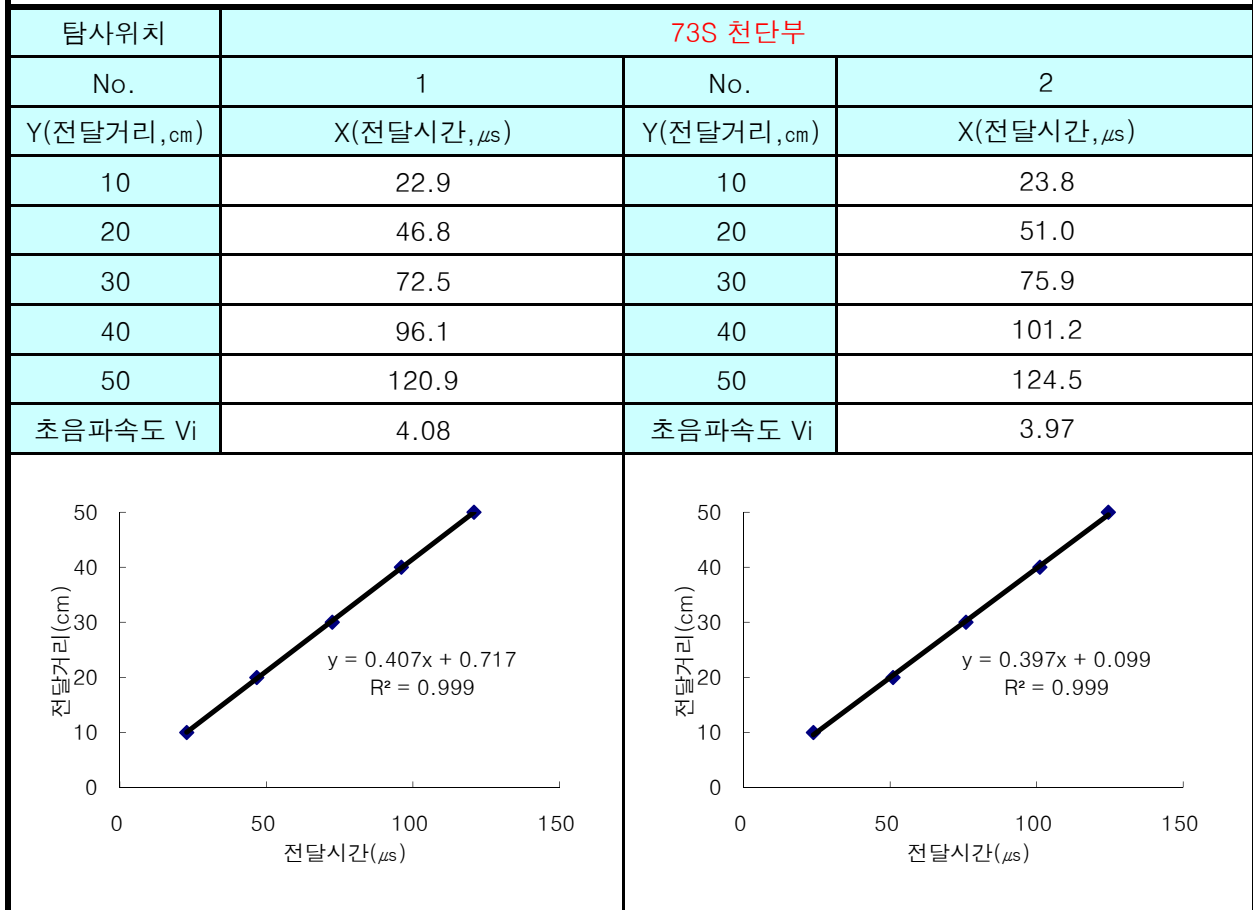
청도2터널(부산) 초음파탐사 11



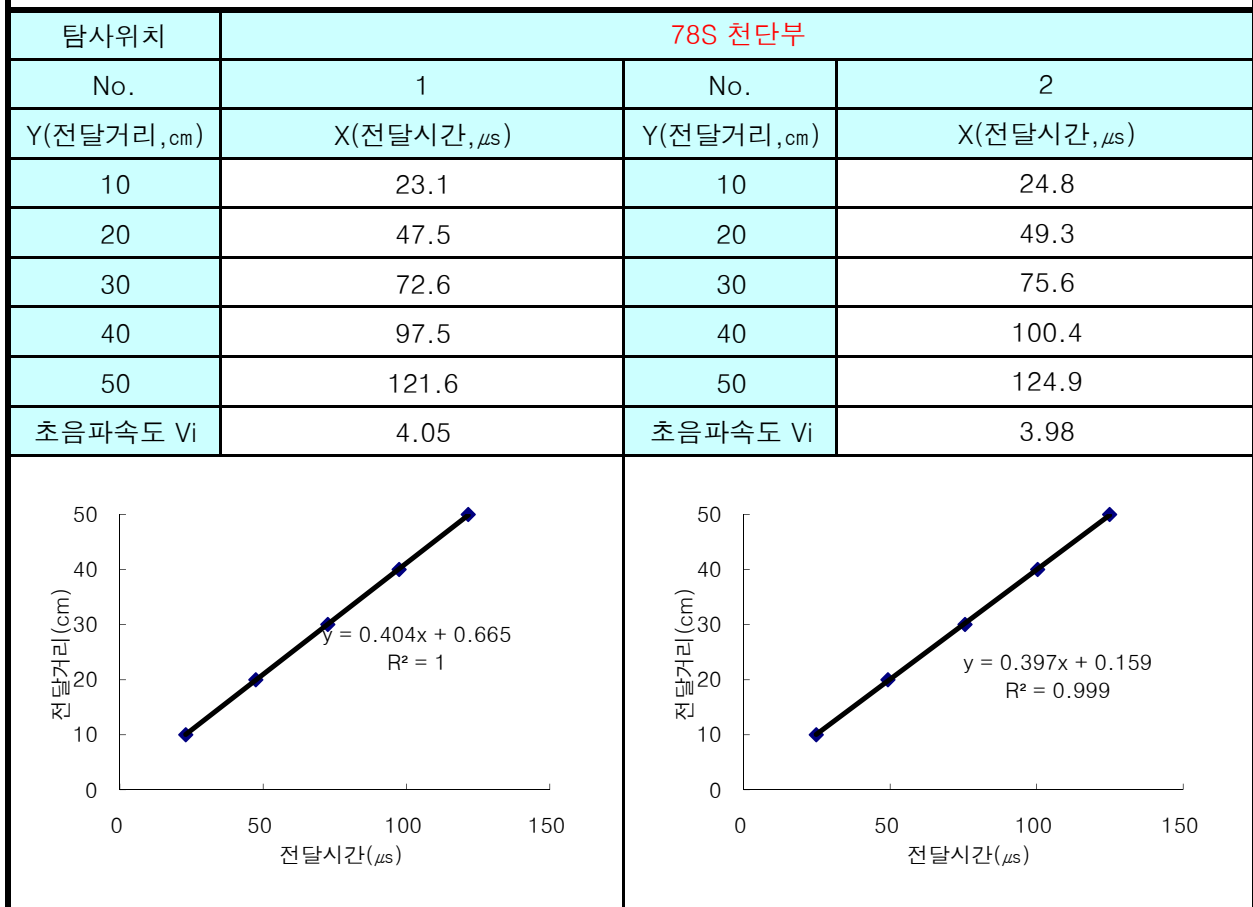
청도2터널(부산) 초음파탐사 12



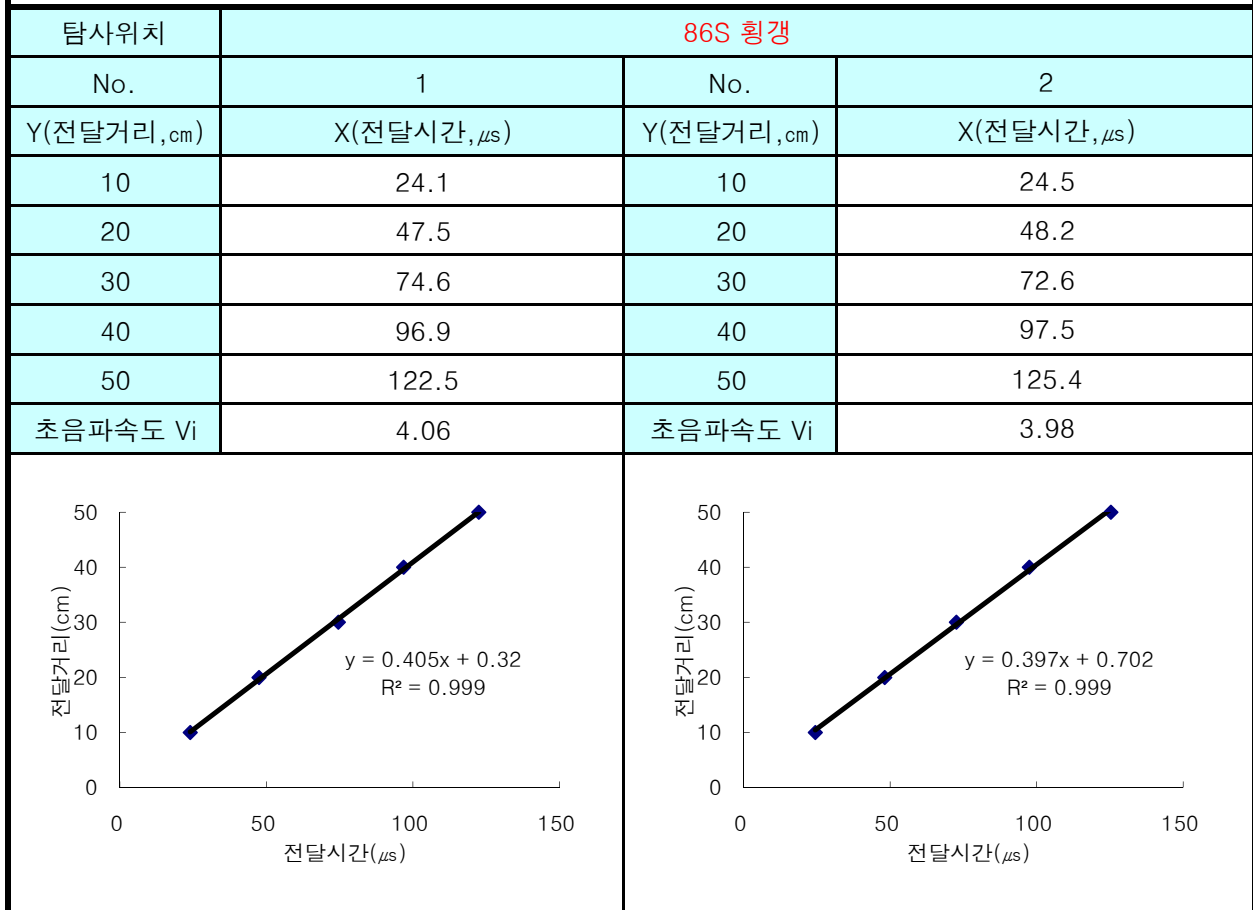
청도2터널(부산) 초음파탐사 13



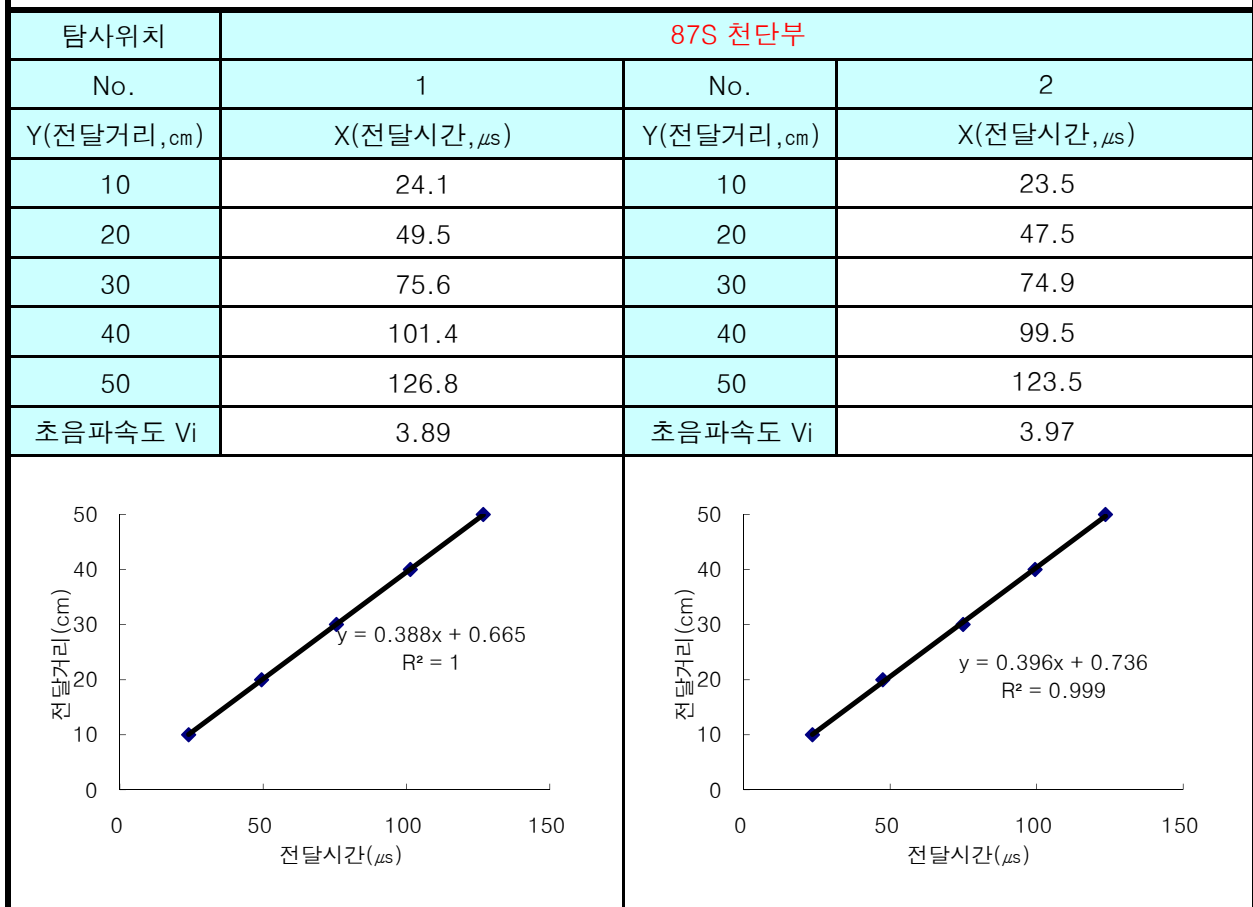
청도2터널(부산) 초음파탐사 14



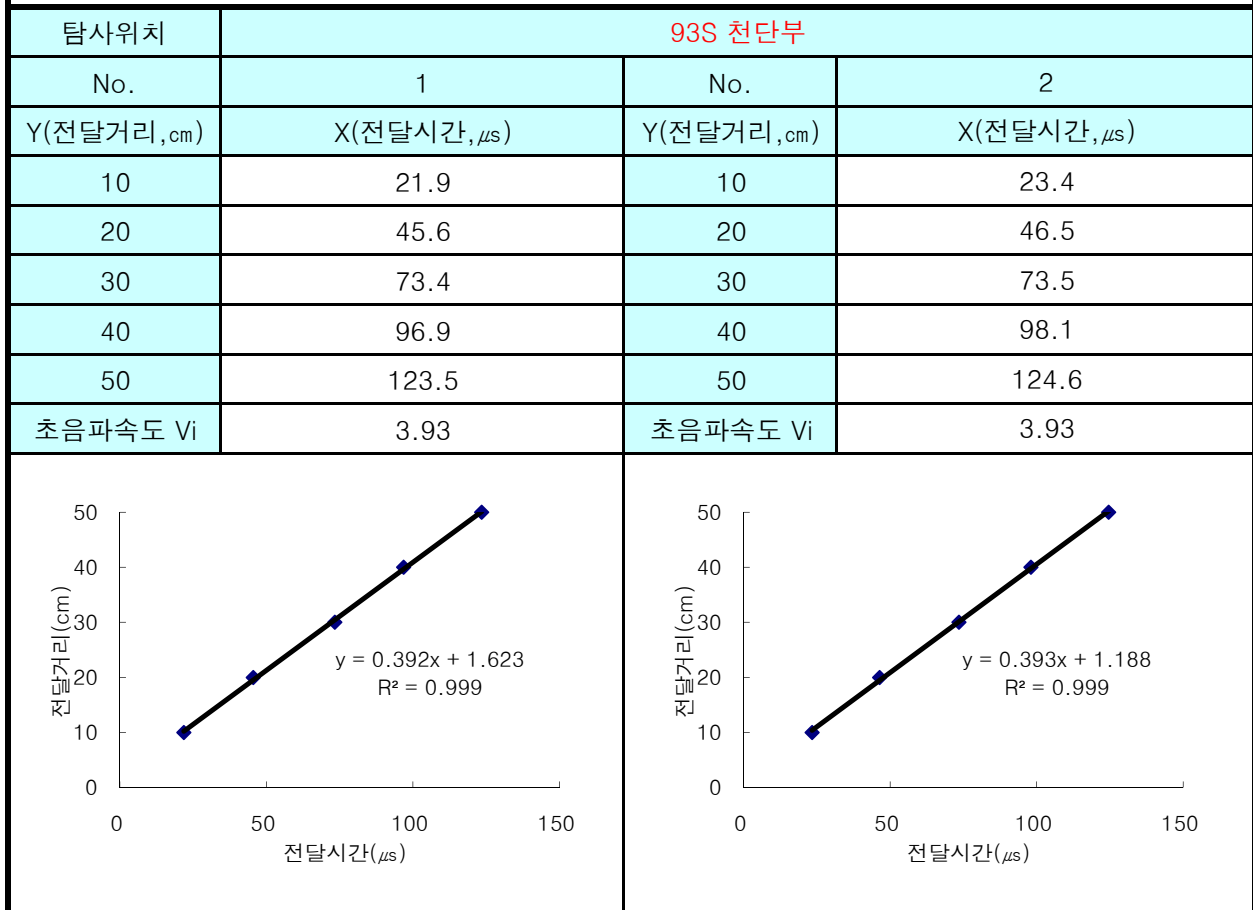
청도2터널(부산) 초음파탐사 15



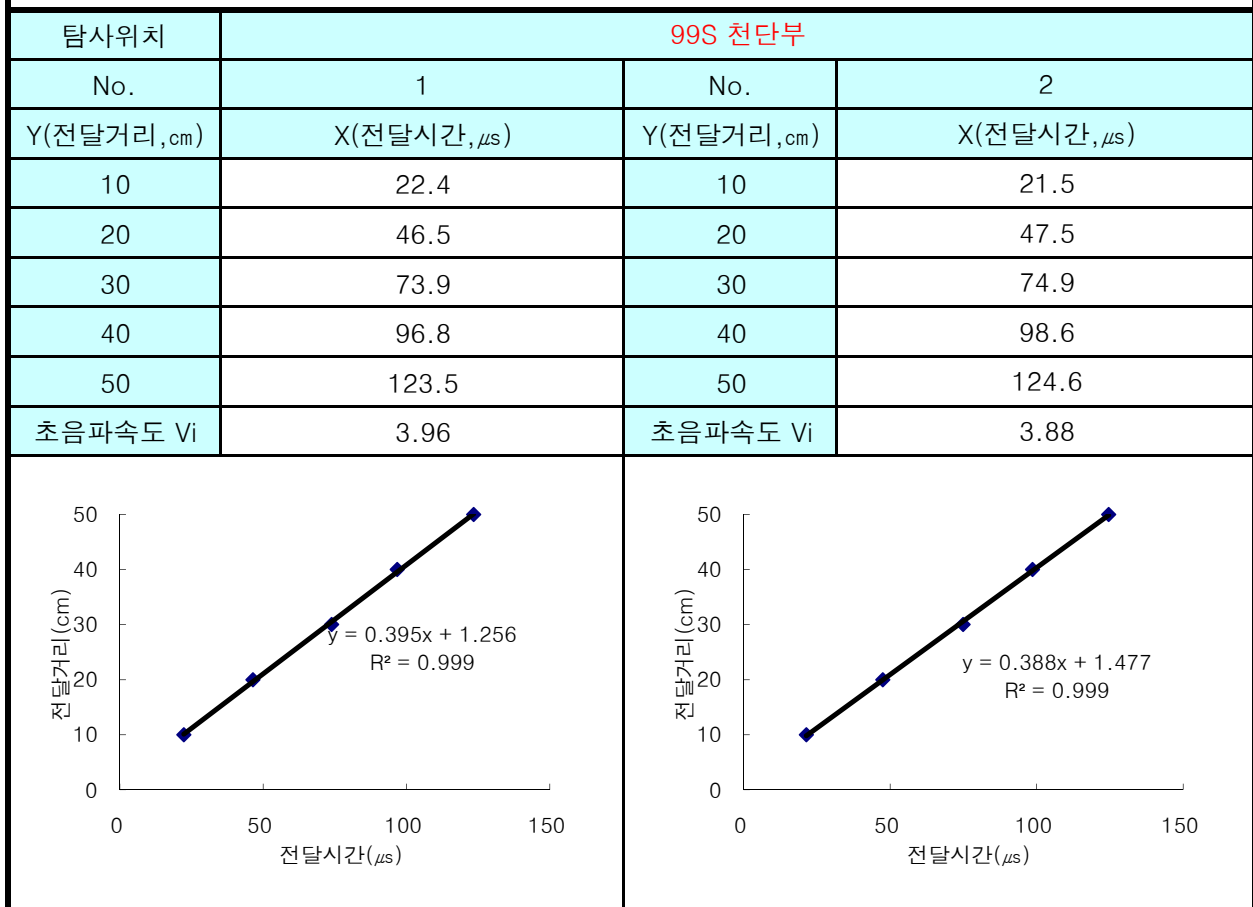
청도2터널(부산) 초음파탐사 16



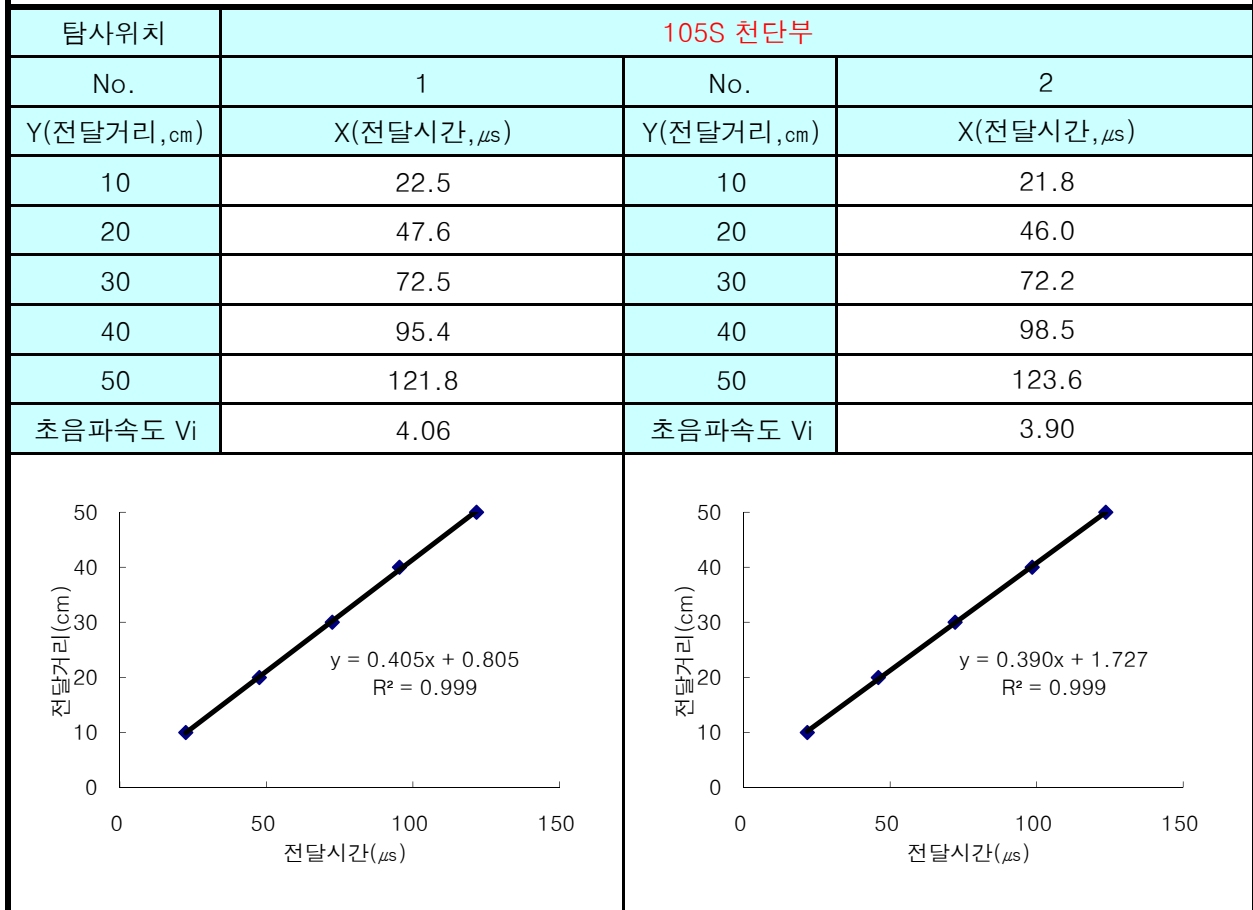
청도2터널(부산) 초음파탐사 17



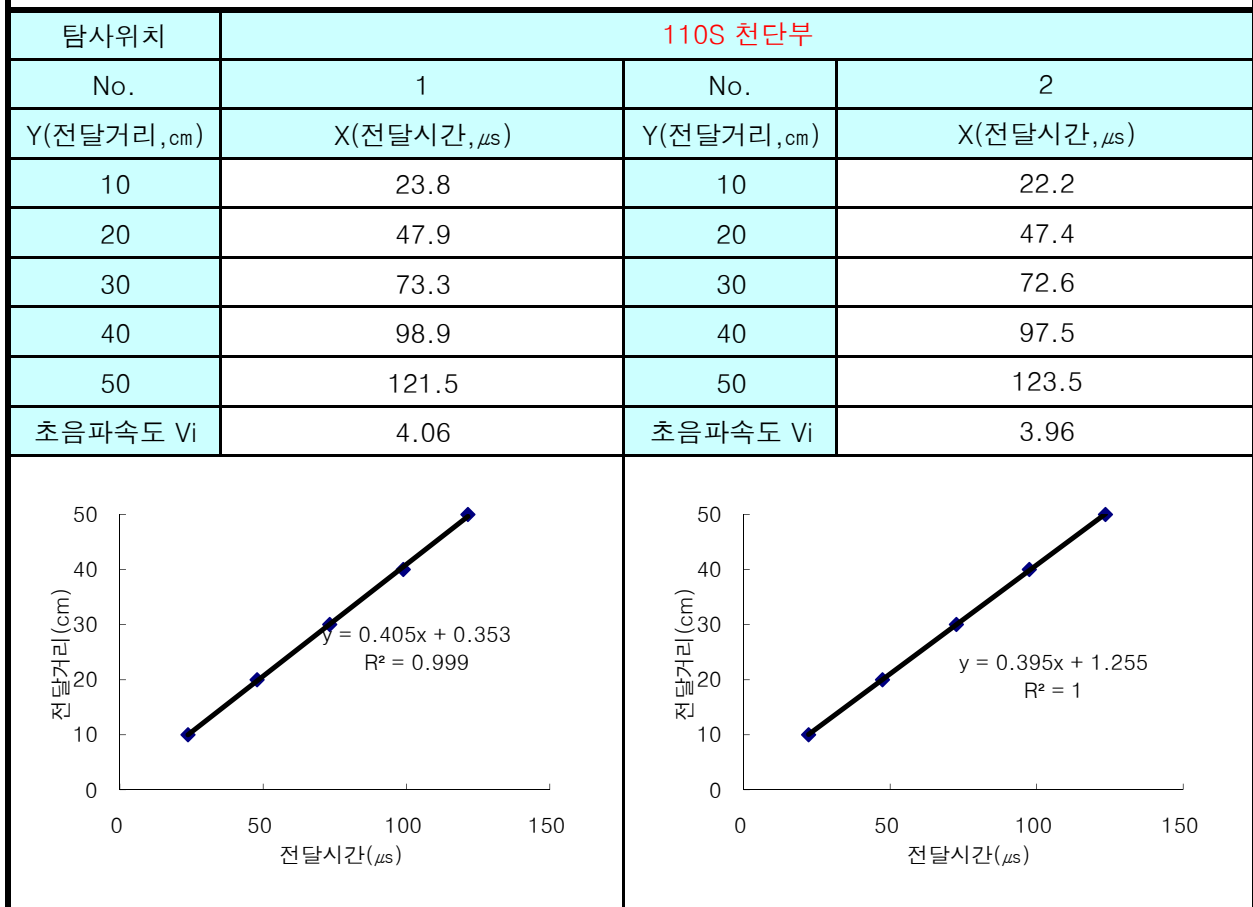
청도2터널(부산) 초음파탐사 18



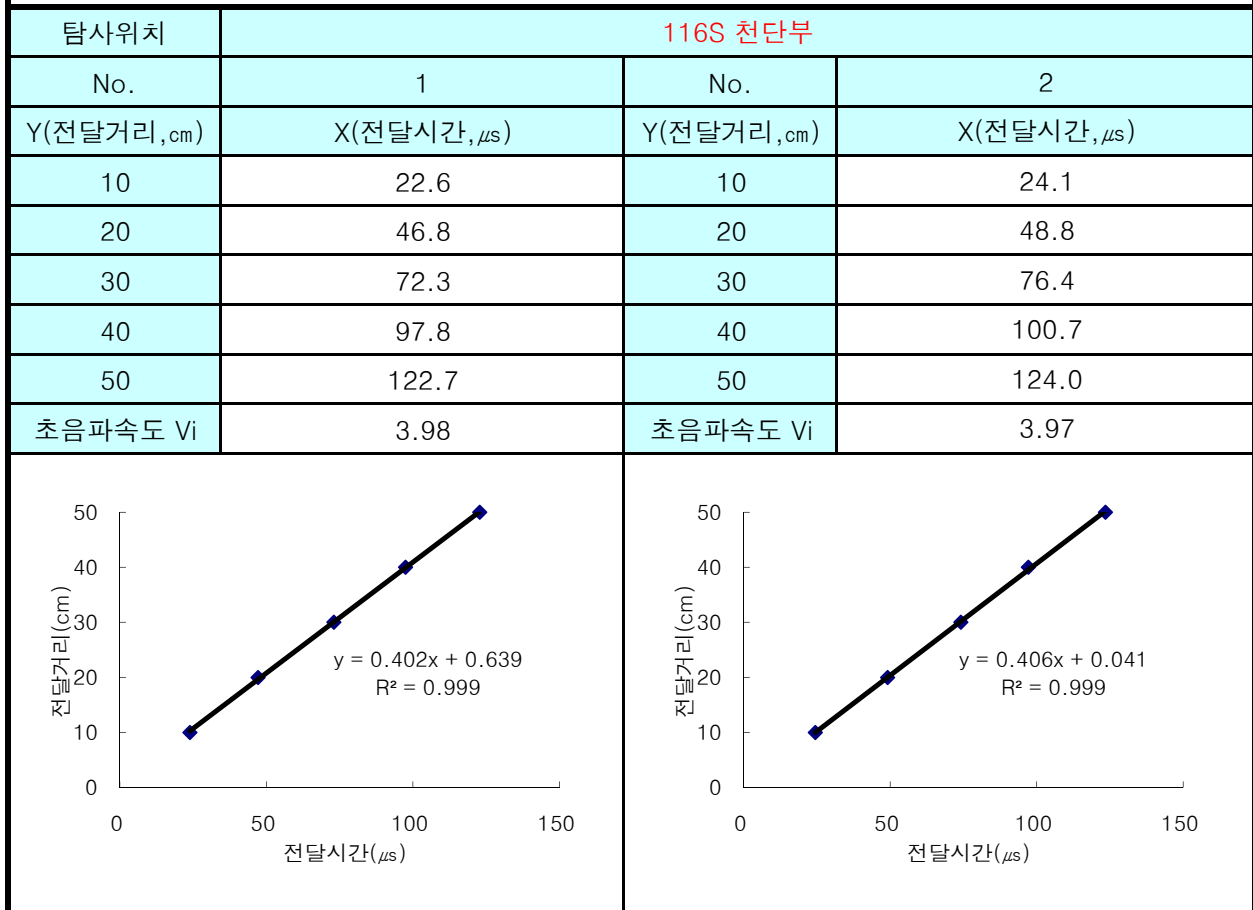
청도2터널(부산) 초음파탐사 19



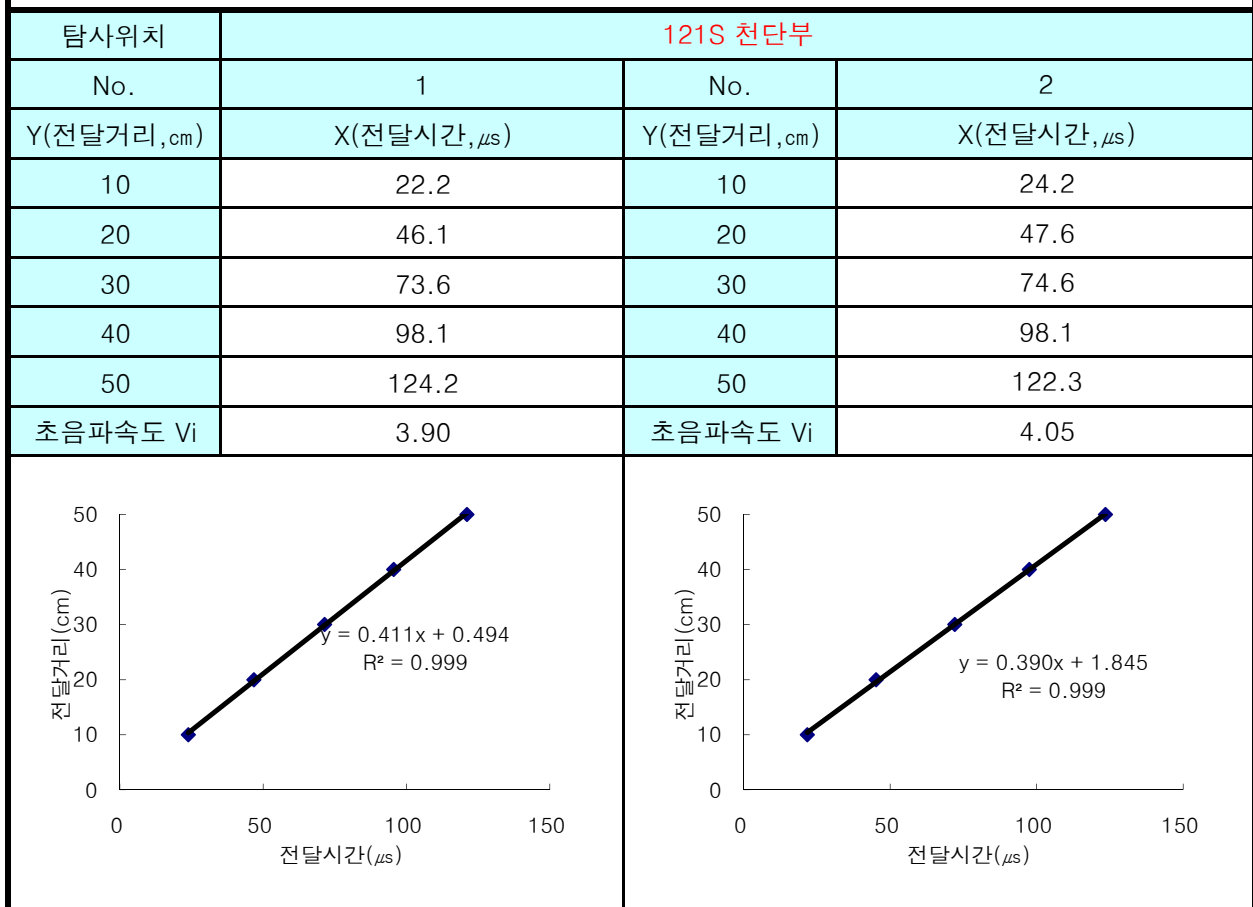
청도2터널(부산) 초음파탐사 20



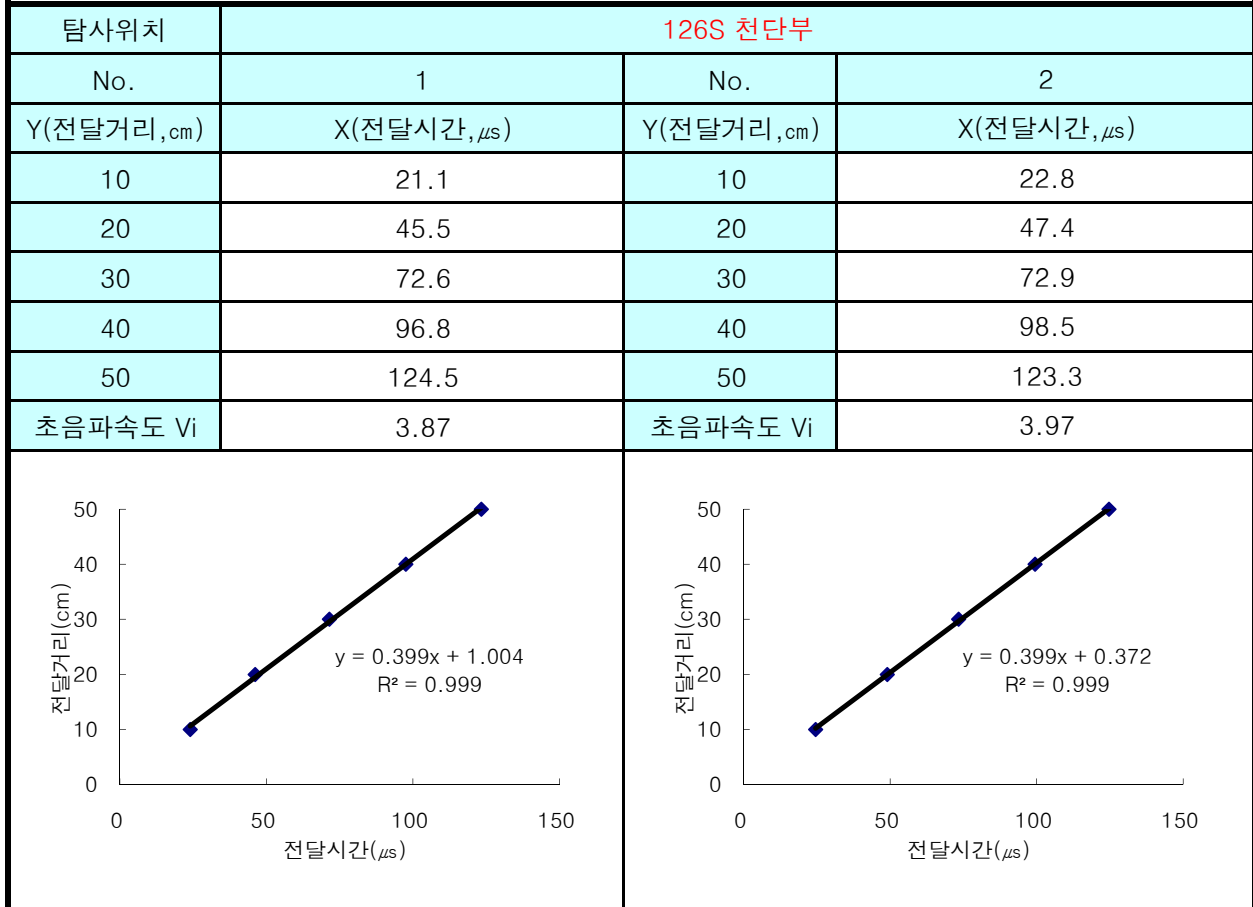
청도2터널(상행) 초음파탐사 21



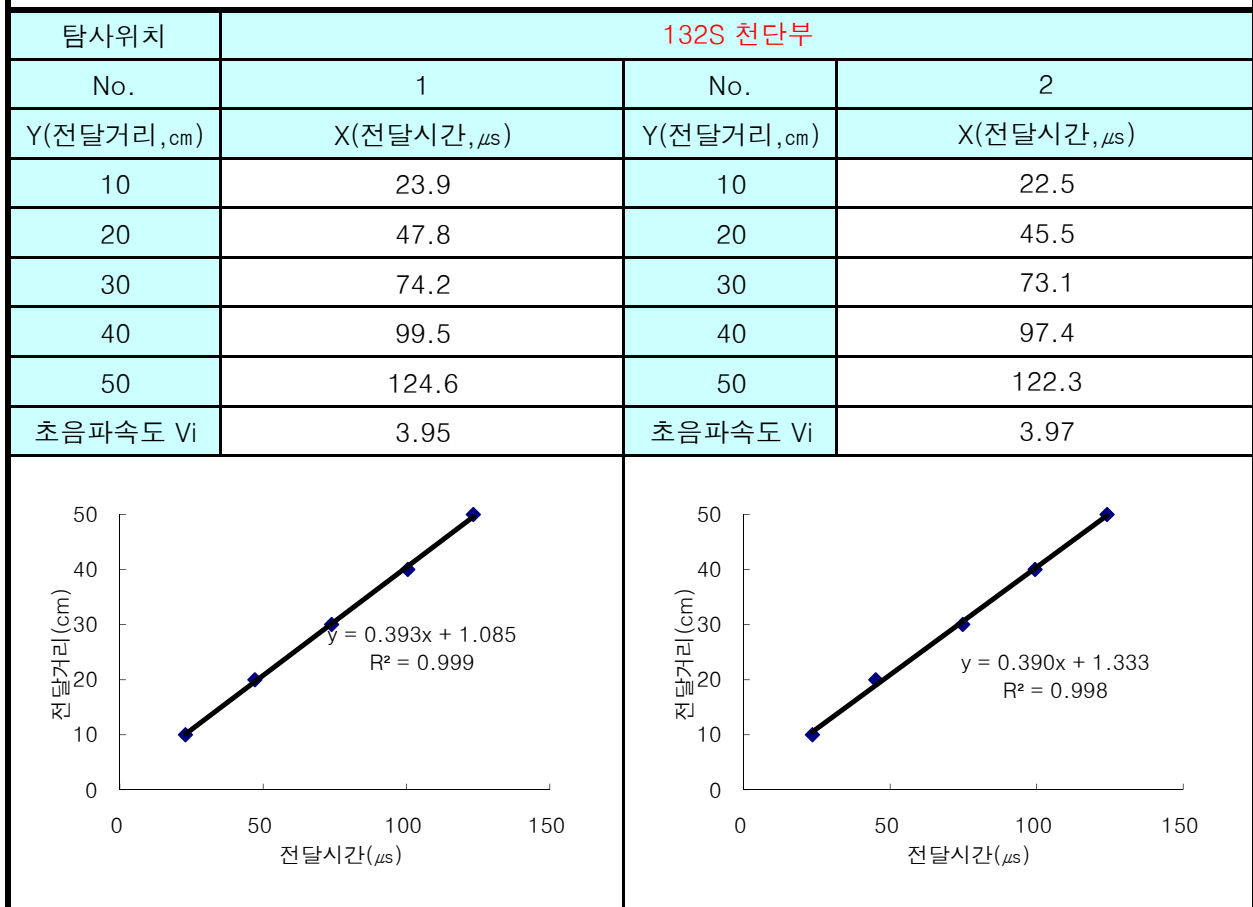
청도2터널(부산) 초음파탐사 22



청도2터널(부산) 초음파탐사 23



청도2터널(부산) 초음파탐사 24



청도2터널(부산) 초음파탐사 25

탐사위치	137S 천단부		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	21.1	10	22.4
20	45.6	20	46.9
30	72.1	30	73.3
40	98.8	40	96.9
50	123.5	50	122.1
초음파속도 Vi	3.88	초음파속도 Vi	4.01

$y = 0.405x + 0.544$
 $R^2 = 0.999$

$y = 0.390x + 1.081$
 $R^2 = 0.999$

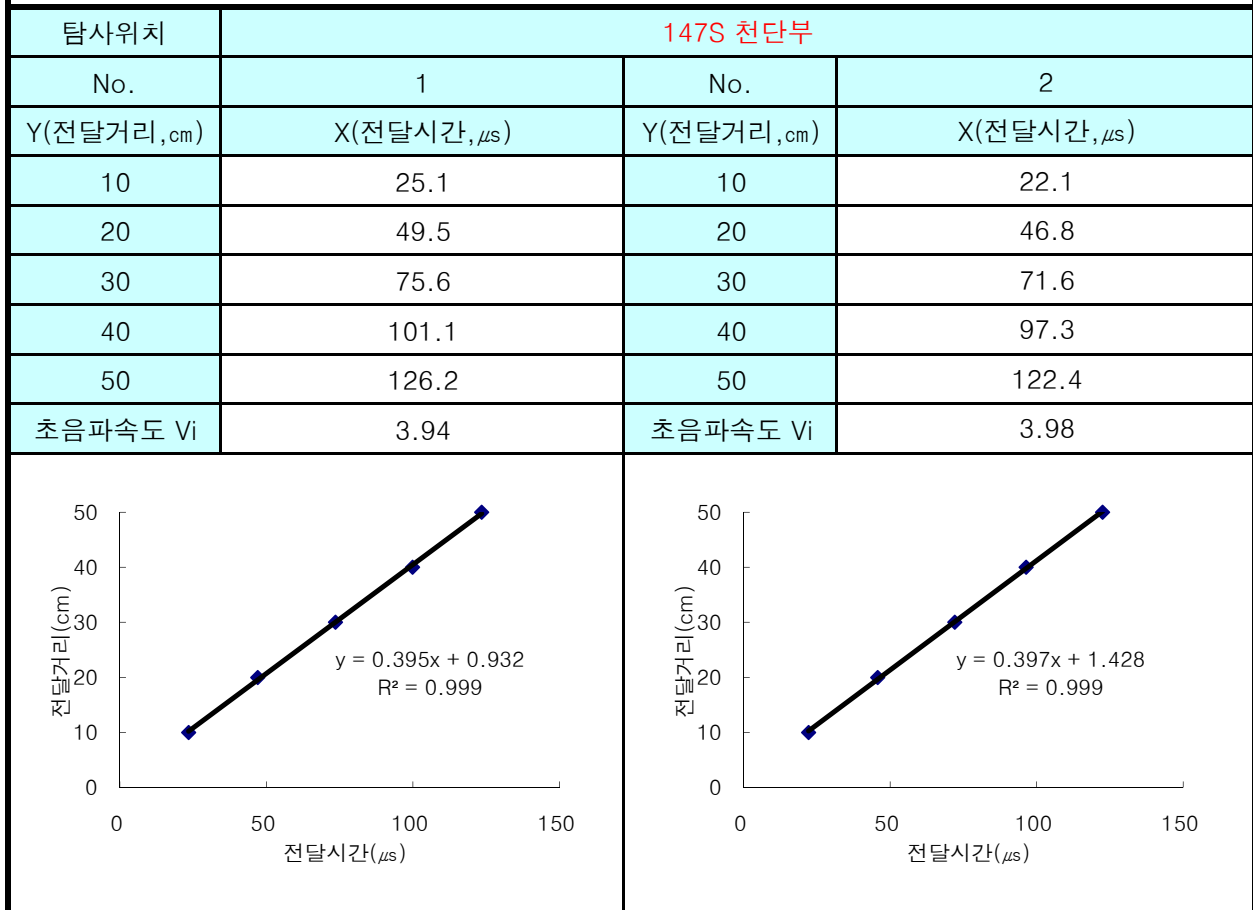
청도2터널(부산) 초음파탐사 26

탐사위치	141S 천단부		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	22.7	10	24.2
20	47.6	20	49.3
30	74.1	30	75.1
40	98.5	40	98.9
50	123.9	50	123.3
초음파속도 Vi	3.95	초음파속도 Vi	4.03

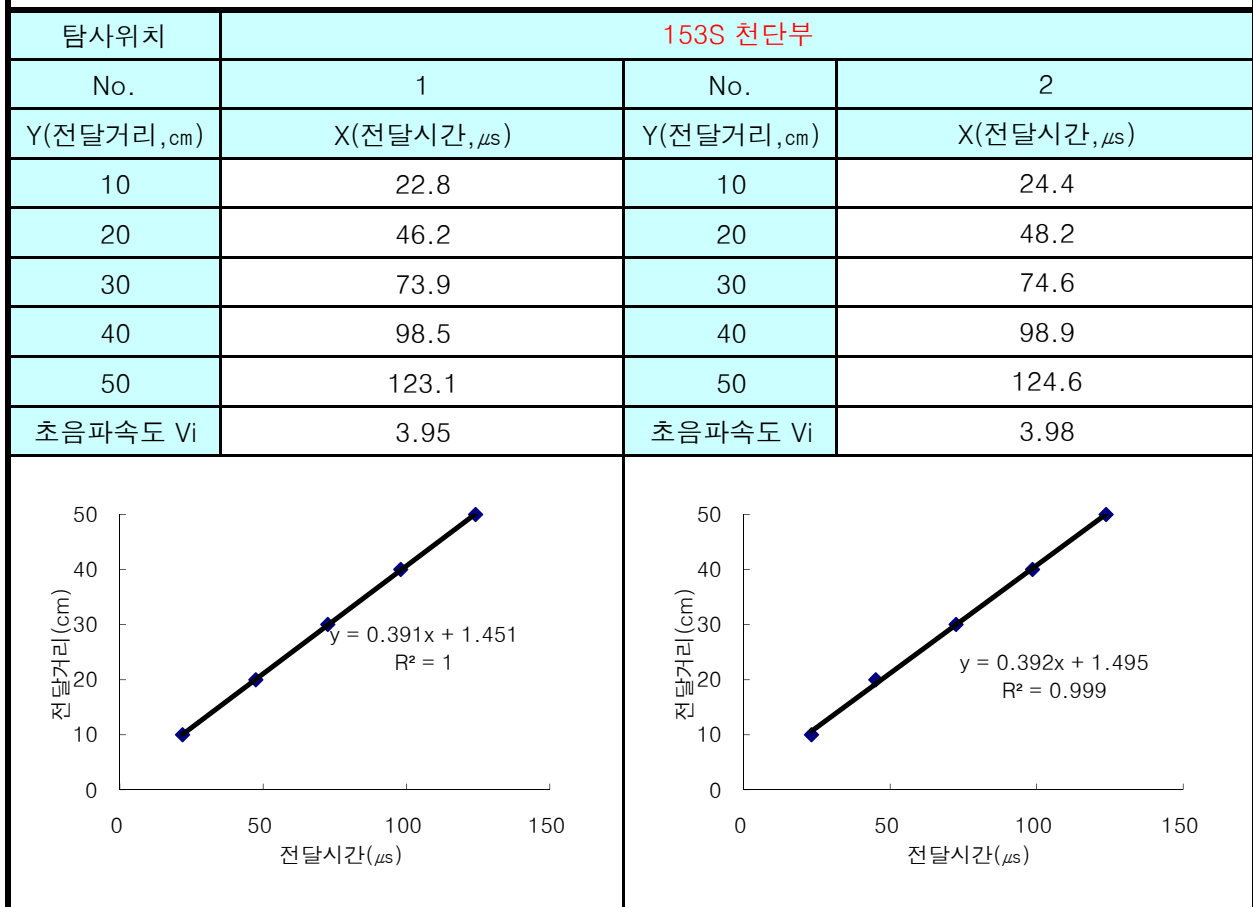
$y = 0.392x + 0.694$
 $R^2 = 0.999$

$y = 0.385x + 1.576$
 $R^2 = 0.999$

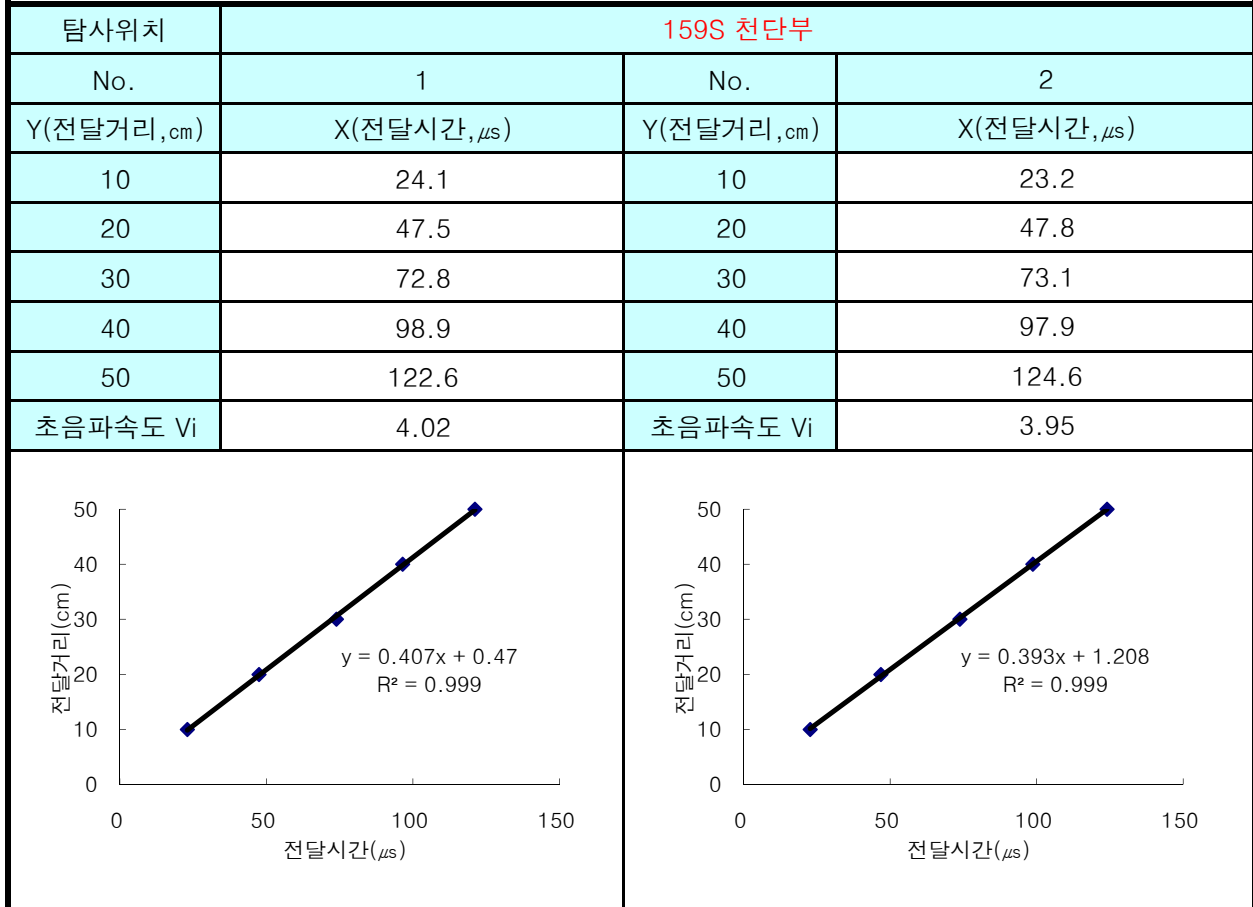
청도2터널(부산) 초음파탐사 27



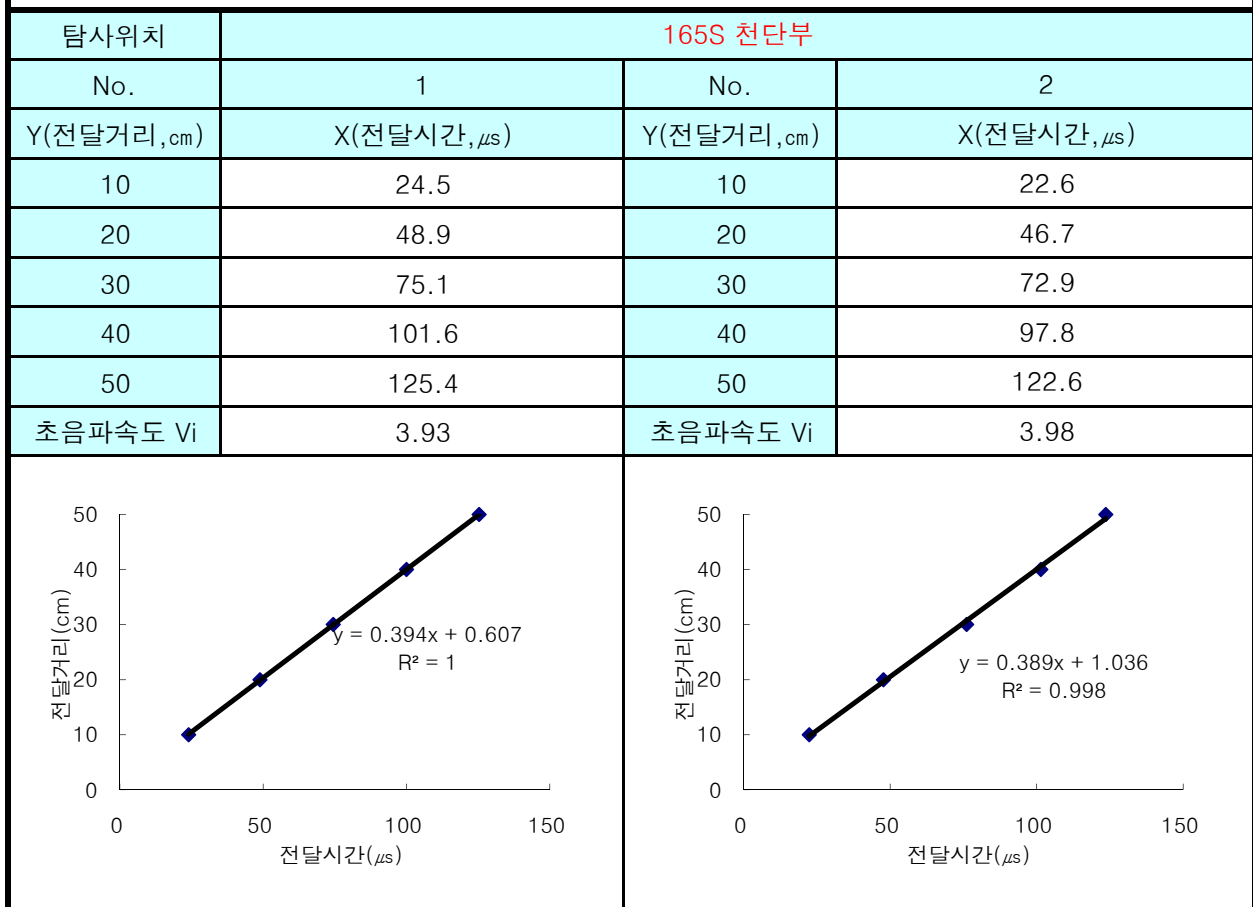
청도2터널(부산) 초음파탐사 28



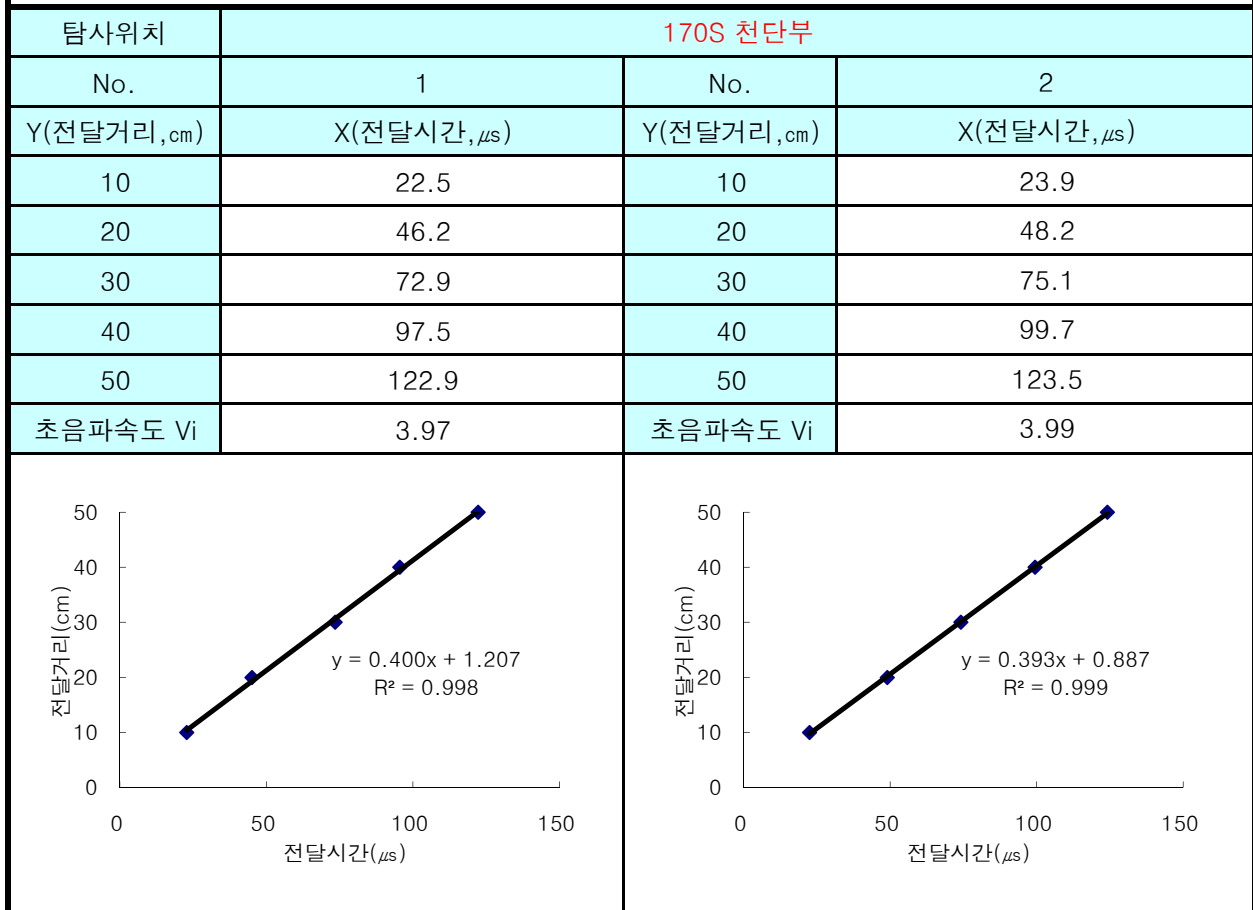
청도2터널(부산) 초음파탐사 29



청도2터널(부산) 초음파탐사 30



청도2터널(부산) 초음파탐사 31



청도2터널(부산) 초음파탐사 32

