

n77H	80	30	3840	CP	16QAM	Edge_1RB_Right	23.02
n77H	80	30	3840	CP	16QAM	Outer_Full	23.71
n77H	80	30	3840	CP	64QAM	Inner_Full	23.42
n77H	80	30	3840	CP	64QAM	Edge_1RB_Left	22.97
n77H	80	30	3840	CP	64QAM	Edge_1RB_Right	22.76
n77H	80	30	3840	CP	64QAM	Outer_Full	23.24
n77H	80	30	3840	CP	256QAM	Inner_Full	20.39
n77H	80	30	3840	CP	256QAM	Edge_1RB_Left	19.97
n77H	80	30	3840	CP	256QAM	Edge_1RB_Right	19.70
n77H	80	30	3840	CP	256QAM	Outer_Full	20.19
n77H	80	30	3939.99	DFT	pi/2 BPSK	Inner_Full	27.19
n77H	80	30	3939.99	DFT	pi/2 BPSK	Edge_1RB_Left	22.63
n77H	80	30	3939.99	DFT	pi/2 BPSK	Edge_1RB_Right	22.36
n77H	80	30	3939.99	DFT	pi/2 BPSK	Outer_Full	26.49
n77H	80	30	3939.99	DFT	QPSK	Inner_Full	27.17
n77H	80	30	3939.99	DFT	QPSK	Edge_1RB_Left	22.61
n77H	80	30	3939.99	DFT	QPSK	Edge_1RB_Right	22.33
n77H	80	30	3939.99	DFT	QPSK	Outer_Full	26.02
n77H	80	30	3939.99	DFT	16QAM	Inner_Full	26.48
n77H	80	30	3939.99	DFT	16QAM	Edge_1RB_Left	22.66
n77H	80	30	3939.99	DFT	16QAM	Edge_1RB_Right	22.49
n77H	80	30	3939.99	DFT	16QAM	Outer_Full	25.04
n77H	80	30	3939.99	DFT	64QAM	Inner_Full	24.88
n77H	80	30	3939.99	DFT	64QAM	Edge_1RB_Left	22.72
n77H	80	30	3939.99	DFT	64QAM	Edge_1RB_Right	22.49
n77H	80	30	3939.99	DFT	64QAM	Outer_Full	24.57
n77H	80	30	3939.99	DFT	256QAM	Inner_Full	22.90
n77H	80	30	3939.99	DFT	256QAM	Edge_1RB_Left	21.78
n77H	80	30	3939.99	DFT	256QAM	Edge_1RB_Right	21.44
n77H	80	30	3939.99	DFT	256QAM	Outer_Full	22.56
n77H	80	30	3939.99	CP	QPSK	Inner_Full	25.84
n77H	80	30	3939.99	CP	QPSK	Edge_1RB_Left	22.70
n77H	80	30	3939.99	CP	QPSK	Edge_1RB_Right	22.48
n77H	80	30	3939.99	CP	QPSK	Outer_Full	24.08
n77H	80	30	3939.99	CP	16QAM	Inner_Full	25.37
n77H	80	30	3939.99	CP	16QAM	Edge_1RB_Left	22.70
n77H	80	30	3939.99	CP	16QAM	Edge_1RB_Right	22.44
n77H	80	30	3939.99	CP	16QAM	Outer_Full	24.00
n77H	80	30	3939.99	CP	64QAM	Inner_Full	23.87
n77H	80	30	3939.99	CP	64QAM	Edge_1RB_Left	22.58
n77H	80	30	3939.99	CP	64QAM	Edge_1RB_Right	22.28

n77H	80	30	3939.99	CP	64QAM	Outer_Full	23.50
n77H	80	30	3939.99	CP	256QAM	Inner_Full	20.83
n77H	80	30	3939.99	CP	256QAM	Edge_1RB_Left	19.69
n77H	80	30	3939.99	CP	256QAM	Edge_1RB_Right	19.43
n77H	80	30	3939.99	CP	256QAM	Outer_Full	20.39
n77H	90	30	3745.02	DFT	pi/2 BPSK	Inner_Full	26.10
n77H	90	30	3745.02	DFT	pi/2 BPSK	Edge_1RB_Left	21.20
n77H	90	30	3745.02	DFT	pi/2 BPSK	Edge_1RB_Right	23.09
n77H	90	30	3745.02	DFT	pi/2 BPSK	Outer_Full	25.54
n77H	90	30	3745.02	DFT	QPSK	Inner_Full	26.15
n77H	90	30	3745.02	DFT	QPSK	Edge_1RB_Left	21.22
n77H	90	30	3745.02	DFT	QPSK	Edge_1RB_Right	23.09
n77H	90	30	3745.02	DFT	QPSK	Outer_Full	25.08
n77H	90	30	3745.02	DFT	16QAM	Inner_Full	25.17
n77H	90	30	3745.02	DFT	16QAM	Edge_1RB_Left	21.25
n77H	90	30	3745.02	DFT	16QAM	Edge_1RB_Right	23.18
n77H	90	30	3745.02	DFT	16QAM	Outer_Full	24.09
n77H	90	30	3745.02	DFT	64QAM	Inner_Full	23.68
n77H	90	30	3745.02	DFT	64QAM	Edge_1RB_Left	21.29
n77H	90	30	3745.02	DFT	64QAM	Edge_1RB_Right	22.99
n77H	90	30	3745.02	DFT	64QAM	Outer_Full	23.54
n77H	90	30	3745.02	DFT	256QAM	Inner_Full	21.64
n77H	90	30	3745.02	DFT	256QAM	Edge_1RB_Left	20.46
n77H	90	30	3745.02	DFT	256QAM	Edge_1RB_Right	22.24
n77H	90	30	3745.02	DFT	256QAM	Outer_Full	21.58
n77H	90	30	3745.02	CP	QPSK	Inner_Full	24.59
n77H	90	30	3745.02	CP	QPSK	Edge_1RB_Left	21.33
n77H	90	30	3745.02	CP	QPSK	Edge_1RB_Right	23.15
n77H	90	30	3745.02	CP	QPSK	Outer_Full	23.07
n77H	90	30	3745.02	CP	16QAM	Inner_Full	24.14
n77H	90	30	3745.02	CP	16QAM	Edge_1RB_Left	21.26
n77H	90	30	3745.02	CP	16QAM	Edge_1RB_Right	23.14
n77H	90	30	3745.02	CP	16QAM	Outer_Full	23.09
n77H	90	30	3745.02	CP	64QAM	Inner_Full	22.56
n77H	90	30	3745.02	CP	64QAM	Edge_1RB_Left	21.26
n77H	90	30	3745.02	CP	64QAM	Edge_1RB_Right	23.04
n77H	90	30	3745.02	CP	64QAM	Outer_Full	22.56
n77H	90	30	3745.02	CP	256QAM	Inner_Full	19.54
n77H	90	30	3745.02	CP	256QAM	Edge_1RB_Left	18.40
n77H	90	30	3745.02	CP	256QAM	Edge_1RB_Right	20.26
n77H	90	30	3745.02	CP	256QAM	Outer_Full	19.47

n77H	90	30	3840	DFT	pi/2 BPSK	Inner_Full	26.87
n77H	90	30	3840	DFT	pi/2 BPSK	Edge_1RB_Left	22.97
n77H	90	30	3840	DFT	pi/2 BPSK	Edge_1RB_Right	22.67
n77H	90	30	3840	DFT	pi/2 BPSK	Outer_Full	26.28
n77H	90	30	3840	DFT	QPSK	Inner_Full	26.82
n77H	90	30	3840	DFT	QPSK	Edge_1RB_Left	22.93
n77H	90	30	3840	DFT	QPSK	Edge_1RB_Right	22.60
n77H	90	30	3840	DFT	QPSK	Outer_Full	25.82
n77H	90	30	3840	DFT	16QAM	Inner_Full	25.88
n77H	90	30	3840	DFT	16QAM	Edge_1RB_Left	22.89
n77H	90	30	3840	DFT	16QAM	Edge_1RB_Right	22.67
n77H	90	30	3840	DFT	16QAM	Outer_Full	24.85
n77H	90	30	3840	DFT	64QAM	Inner_Full	24.37
n77H	90	30	3840	DFT	64QAM	Edge_1RB_Left	22.99
n77H	90	30	3840	DFT	64QAM	Edge_1RB_Right	22.63
n77H	90	30	3840	DFT	64QAM	Outer_Full	24.29
n77H	90	30	3840	DFT	256QAM	Inner_Full	22.38
n77H	90	30	3840	DFT	256QAM	Edge_1RB_Left	22.10
n77H	90	30	3840	DFT	256QAM	Edge_1RB_Right	21.91
n77H	90	30	3840	DFT	256QAM	Outer_Full	22.27
n77H	90	30	3840	CP	QPSK	Inner_Full	25.29
n77H	90	30	3840	CP	QPSK	Edge_1RB_Left	23.04
n77H	90	30	3840	CP	QPSK	Edge_1RB_Right	22.79
n77H	90	30	3840	CP	QPSK	Outer_Full	23.76
n77H	90	30	3840	CP	16QAM	Inner_Full	24.93
n77H	90	30	3840	CP	16QAM	Edge_1RB_Left	22.97
n77H	90	30	3840	CP	16QAM	Edge_1RB_Right	22.62
n77H	90	30	3840	CP	16QAM	Outer_Full	23.81
n77H	90	30	3840	CP	64QAM	Inner_Full	23.35
n77H	90	30	3840	CP	64QAM	Edge_1RB_Left	22.82
n77H	90	30	3840	CP	64QAM	Edge_1RB_Right	22.79
n77H	90	30	3840	CP	64QAM	Outer_Full	23.29
n77H	90	30	3840	CP	256QAM	Inner_Full	20.28
n77H	90	30	3840	CP	256QAM	Edge_1RB_Left	20.14
n77H	90	30	3840	CP	256QAM	Edge_1RB_Right	19.55
n77H	90	30	3840	CP	256QAM	Outer_Full	20.24
n77H	90	30	3934.98	DFT	pi/2 BPSK	Inner_Full	27.18
n77H	90	30	3934.98	DFT	pi/2 BPSK	Edge_1RB_Left	22.53
n77H	90	30	3934.98	DFT	pi/2 BPSK	Edge_1RB_Right	22.16
n77H	90	30	3934.98	DFT	pi/2 BPSK	Outer_Full	26.53
n77H	90	30	3934.98	DFT	QPSK	Inner_Full	27.14

n77H	90	30	3934.98	DFT	QPSK	Edge_1RB_Left	22.50
n77H	90	30	3934.98	DFT	QPSK	Edge_1RB_Right	22.10
n77H	90	30	3934.98	DFT	QPSK	Outer_Full	26.04
n77H	90	30	3934.98	DFT	16QAM	Inner_Full	26.40
n77H	90	30	3934.98	DFT	16QAM	Edge_1RB_Left	22.59
n77H	90	30	3934.98	DFT	16QAM	Edge_1RB_Right	22.12
n77H	90	30	3934.98	DFT	16QAM	Outer_Full	25.01
n77H	90	30	3934.98	DFT	64QAM	Inner_Full	24.98
n77H	90	30	3934.98	DFT	64QAM	Edge_1RB_Left	22.53
n77H	90	30	3934.98	DFT	64QAM	Edge_1RB_Right	22.21
n77H	90	30	3934.98	DFT	64QAM	Outer_Full	24.49
n77H	90	30	3934.98	DFT	256QAM	Inner_Full	22.91
n77H	90	30	3934.98	DFT	256QAM	Edge_1RB_Left	21.78
n77H	90	30	3934.98	DFT	256QAM	Edge_1RB_Right	21.14
n77H	90	30	3934.98	DFT	256QAM	Outer_Full	22.50
n77H	90	30	3934.98	CP	QPSK	Inner_Full	25.87
n77H	90	30	3934.98	CP	QPSK	Edge_1RB_Left	22.64
n77H	90	30	3934.98	CP	QPSK	Edge_1RB_Right	22.21
n77H	90	30	3934.98	CP	QPSK	Outer_Full	23.97
n77H	90	30	3934.98	CP	16QAM	Inner_Full	25.42
n77H	90	30	3934.98	CP	16QAM	Edge_1RB_Left	22.52
n77H	90	30	3934.98	CP	16QAM	Edge_1RB_Right	22.25
n77H	90	30	3934.98	CP	16QAM	Outer_Full	24.00
n77H	90	30	3934.98	CP	64QAM	Inner_Full	23.86
n77H	90	30	3934.98	CP	64QAM	Edge_1RB_Left	22.48
n77H	90	30	3934.98	CP	64QAM	Edge_1RB_Right	22.14
n77H	90	30	3934.98	CP	64QAM	Outer_Full	23.51
n77H	90	30	3934.98	CP	256QAM	Inner_Full	20.86
n77H	90	30	3934.98	CP	256QAM	Edge_1RB_Left	19.64
n77H	90	30	3934.98	CP	256QAM	Edge_1RB_Right	19.19
n77H	90	30	3934.98	CP	256QAM	Outer_Full	20.42
n77H	100	30	3840	DFT	$\pi/2$ BPSK	Inner_Full	26.84
n77H	100	30	3840	DFT	$\pi/2$ BPSK	Edge_1RB_Left	22.78
n77H	100	30	3840	DFT	$\pi/2$ BPSK	Edge_1RB_Right	22.34
n77H	100	30	3840	DFT	$\pi/2$ BPSK	Outer_Full	26.25
n77H	100	30	3840	DFT	QPSK	Inner_Full	26.84
n77H	100	30	3840	DFT	QPSK	Edge_1RB_Left	22.79
n77H	100	30	3840	DFT	QPSK	Edge_1RB_Right	22.45
n77H	100	30	3840	DFT	QPSK	Outer_Full	25.75
n77H	100	30	3840	DFT	16QAM	Inner_Full	25.87
n77H	100	30	3840	DFT	16QAM	Edge_1RB_Left	22.69

n77H	100	30	3840	DFT	16QAM	Edge_1RB_Right	22.47
n77H	100	30	3840	DFT	16QAM	Outer_Full	24.75
n77H	100	30	3840	DFT	64QAM	Inner_Full	24.34
n77H	100	30	3840	DFT	64QAM	Edge_1RB_Left	22.78
n77H	100	30	3840	DFT	64QAM	Edge_1RB_Right	22.50
n77H	100	30	3840	DFT	64QAM	Outer_Full	24.22
n77H	100	30	3840	DFT	256QAM	Inner_Full	22.39
n77H	100	30	3840	DFT	256QAM	Edge_1RB_Left	21.87
n77H	100	30	3840	DFT	256QAM	Edge_1RB_Right	21.41
n77H	100	30	3840	DFT	256QAM	Outer_Full	22.26
n77H	100	30	3840	CP	QPSK	Inner_Full	25.32
n77H	100	30	3840	CP	QPSK	Edge_1RB_Left	22.90
n77H	100	30	3840	CP	QPSK	Edge_1RB_Right	22.43
n77H	100	30	3840	CP	QPSK	Outer_Full	23.72
n77H	100	30	3840	CP	16QAM	Inner_Full	24.80
n77H	100	30	3840	CP	16QAM	Edge_1RB_Left	22.97
n77H	100	30	3840	CP	16QAM	Edge_1RB_Right	22.52
n77H	100	30	3840	CP	16QAM	Outer_Full	23.72
n77H	100	30	3840	CP	64QAM	Inner_Full	23.30
n77H	100	30	3840	CP	64QAM	Edge_1RB_Left	22.78
n77H	100	30	3840	CP	64QAM	Edge_1RB_Right	22.38
n77H	100	30	3840	CP	64QAM	Outer_Full	23.20
n77H	100	30	3840	CP	256QAM	Inner_Full	20.34
n77H	100	30	3840	CP	256QAM	Edge_1RB_Left	19.92
n77H	100	30	3840	CP	256QAM	Edge_1RB_Right	19.65
n77H	100	30	3840	CP	256QAM	Outer_Full	20.13
n77H	100	30	3750	DFT	pi/2 BPSK	Inner_Full	26.35
n77H	100	30	3750	DFT	pi/2 BPSK	Edge_1RB_Left	21.24
n77H	100	30	3750	DFT	pi/2 BPSK	Edge_1RB_Right	22.84
n77H	100	30	3750	DFT	pi/2 BPSK	Outer_Full	25.70
n77H	100	30	3750	DFT	QPSK	Inner_Full	26.34
n77H	100	30	3750	DFT	QPSK	Edge_1RB_Left	21.23
n77H	100	30	3750	DFT	QPSK	Edge_1RB_Right	22.89
n77H	100	30	3750	DFT	QPSK	Outer_Full	25.18
n77H	100	30	3750	DFT	16QAM	Inner_Full	25.38
n77H	100	30	3750	DFT	16QAM	Edge_1RB_Left	21.25
n77H	100	30	3750	DFT	16QAM	Edge_1RB_Right	22.77
n77H	100	30	3750	DFT	16QAM	Outer_Full	24.24
n77H	100	30	3750	DFT	64QAM	Inner_Full	23.84
n77H	100	30	3750	DFT	64QAM	Edge_1RB_Left	21.24
n77H	100	30	3750	DFT	64QAM	Edge_1RB_Right	22.68

n77H	100	30	3750	DFT	64QAM	Outer_Full	23.64
n77H	100	30	3750	DFT	256QAM	Inner_Full	21.84
n77H	100	30	3750	DFT	256QAM	Edge_1RB_Left	20.22
n77H	100	30	3750	DFT	256QAM	Edge_1RB_Right	21.96
n77H	100	30	3750	DFT	256QAM	Outer_Full	21.66
n77H	100	30	3750	CP	QPSK	Inner_Full	24.85
n77H	100	30	3750	CP	QPSK	Edge_1RB_Left	21.26
n77H	100	30	3750	CP	QPSK	Edge_1RB_Right	23.01
n77H	100	30	3750	CP	QPSK	Outer_Full	23.15
n77H	100	30	3750	CP	16QAM	Inner_Full	24.39
n77H	100	30	3750	CP	16QAM	Edge_1RB_Left	21.29
n77H	100	30	3750	CP	16QAM	Edge_1RB_Right	22.92
n77H	100	30	3750	CP	16QAM	Outer_Full	23.13
n77H	100	30	3750	CP	64QAM	Inner_Full	22.86
n77H	100	30	3750	CP	64QAM	Edge_1RB_Left	21.27
n77H	100	30	3750	CP	64QAM	Edge_1RB_Right	22.82
n77H	100	30	3750	CP	64QAM	Outer_Full	22.66
n77H	100	30	3750	CP	256QAM	Inner_Full	19.76
n77H	100	30	3750	CP	256QAM	Edge_1RB_Left	19.25
n77H	100	30	3750	CP	256QAM	Edge_1RB_Right	19.80
n77H	100	30	3750	CP	256QAM	Outer_Full	19.51
n77H	100	30	3930	DFT	pi/2 BPSK	Inner_Full	27.19
n77H	100	30	3930	DFT	pi/2 BPSK	Edge_1RB_Left	22.50
n77H	100	30	3930	DFT	pi/2 BPSK	Edge_1RB_Right	21.99
n77H	100	30	3930	DFT	pi/2 BPSK	Outer_Full	26.42
n77H	100	30	3930	DFT	QPSK	Inner_Full	27.13
n77H	100	30	3930	DFT	QPSK	Edge_1RB_Left	22.45
n77H	100	30	3930	DFT	QPSK	Edge_1RB_Right	22.00
n77H	100	30	3930	DFT	QPSK	Outer_Full	25.95
n77H	100	30	3930	DFT	16QAM	Inner_Full	26.36
n77H	100	30	3930	DFT	16QAM	Edge_1RB_Left	22.60
n77H	100	30	3930	DFT	16QAM	Edge_1RB_Right	22.05
n77H	100	30	3930	DFT	16QAM	Outer_Full	24.96
n77H	100	30	3930	DFT	64QAM	Inner_Full	24.86
n77H	100	30	3930	DFT	64QAM	Edge_1RB_Left	22.30
n77H	100	30	3930	DFT	64QAM	Edge_1RB_Right	22.07
n77H	100	30	3930	DFT	64QAM	Outer_Full	24.34
n77H	100	30	3930	DFT	256QAM	Inner_Full	22.81
n77H	100	30	3930	DFT	256QAM	Edge_1RB_Left	21.78
n77H	100	30	3930	DFT	256QAM	Edge_1RB_Right	21.21
n77H	100	30	3930	DFT	256QAM	Outer_Full	22.42

n77H	100	30	3930	CP	QPSK	Inner_Full	25.79
n77H	100	30	3930	CP	QPSK	Edge_1RB_Left	22.45
n77H	100	30	3930	CP	QPSK	Edge_1RB_Right	22.18
n77H	100	30	3930	CP	QPSK	Outer_Full	23.87
n77H	100	30	3930	CP	16QAM	Inner_Full	25.35
n77H	100	30	3930	CP	16QAM	Edge_1RB_Left	22.50
n77H	100	30	3930	CP	16QAM	Edge_1RB_Right	22.17
n77H	100	30	3930	CP	16QAM	Outer_Full	23.91
n77H	100	30	3930	CP	64QAM	Inner_Full	23.82
n77H	100	30	3930	CP	64QAM	Edge_1RB_Left	22.52
n77H	100	30	3930	CP	64QAM	Edge_1RB_Right	22.04
n77H	100	30	3930	CP	64QAM	Outer_Full	23.33
n77H	100	30	3930	CP	256QAM	Inner_Full	20.78
n77H	100	30	3930	CP	256QAM	Edge_1RB_Left	19.71
n77H	100	30	3930	CP	256QAM	Edge_1RB_Right	19.31
n77H	100	30	3930	CP	256QAM	Outer_Full	20.27

Note: The maximum value of expanded measurement uncertainty for this test item is $U = 0.764 \text{ dB}$, $k = 2$.

A.2 Frequency Stability

A.2.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of MT8000A.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the MT8000A, and in a simulated call on middle channel for each NR band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the MT8000A and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C decrements from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.2.2 Measurement results

LTE Band 13+NR n2

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1850.272	1908.624		
50				-2.50	0.0013
40				-2.60	0.0014
30				1.80	0.0010
10				-1.00	0.0005
0				1.50	0.0008
-10				-0.90	0.0005
-20				3.10	0.0016
-30				-5.10	0.0027

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.272	1908.624	-5.00	0.0027
4.4				-1.40	0.0007

LTE Band 2+NR n5

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	824.272	847.624		
50				-2.50	0.0030
40				-0.20	0.0002
30				-2.30	0.0027
10				0.60	0.0007
0				0.90	0.0011
-10				-3.70	0.0044
-20				-4.80	0.0057
-30				-0.60	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.272	847.624	1.00	0.0012
4.4				-3.70	0.0044

n25
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1850.288	1913.640		
50				2.40	0.0013
40				0.70	0.0004
30				-0.30	0.0002
10				-2.70	0.0014
0				-0.60	0.0003
-10				-3.20	0.0017
-20				-0.90	0.0005
-30				-1.90	0.0010

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.288	1913.640	-0.50	0.0003
4.4				0.80	0.0004

LTE Band 5+NR n30
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2305.300	2314.320		
50				-2.70	0.0012
40				1.50	0.0006
30				8.70	0.0038
10				3.00	0.0013
0				2.60	0.0011
-10				-0.80	0.0003
-20				2.90	0.0013
-30				5.30	0.0023

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2305.300	2314.320	8.70	0.0038
4.4				5.80	0.0025

n41
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2496.704	2688.144		
50				-6.70	0.0026
40				-11.20	0.0043
30				-2.20	0.0008
10				-3.20	0.0012
0				0.90	0.0003
-10				-3.50	0.0013
-20				-6.50	0.0025
-30				-5.10	0.0020

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.704	2688.144	-5.80	0.0022
4.4				5.80	0.0022

n66
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.112	1779.840		
50				-2.90	0.0017
40				-3.50	0.0020
30				-1.60	0.0009
10				-1.60	0.0009
0				-2.50	0.0014
-10				-4.00	0.0023
-20				-3.40	0.0019
-30				-1.80	0.0010

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.112	1779.840	-1.80	0.0010
4.4				-3.00	0.0017

n71
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	663.432	696.464		
50				-1.20	0.0018
40				-1.20	0.0018
30				-0.60	0.0009
10				-3.50	0.0051
0				-2.00	0.0029
-10				-2.90	0.0043
-20				0.20	0.0003
-30				-2.60	0.0038

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.432	696.464	1.30	0.0019
4.4				0.70	0.0010

n77L
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	3450.720	3548.528		
50				-4.00	0.0011
40				-3.50	0.0010
30				-9.30	0.0027
10				4.70	0.0013
0				-11.00	0.0031
-10				-7.70	0.0022
-20				-5.50	0.0016
-30				0.30	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3450.720	3548.528	-12.70	0.0036
4.4				-9.60	0.0027

n77H

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	3700.368	3978.528		
50				10.90	0.0028
40				-1.20	0.0003
30				-10.00	0.0026
10				-5.70	0.0015
0				0.80	0.0002
-10				0.00	0.0000
-20				-3.30	0.0009
-30				-7.00	0.0018

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3700.368	3978.528	-5.50	0.0014
4.4				-3.70	0.0010

Note: The maximum value of expanded measurement uncertainty for this test item is $U = 0.047\text{k Hz}$, $k = 2$.

A.3 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

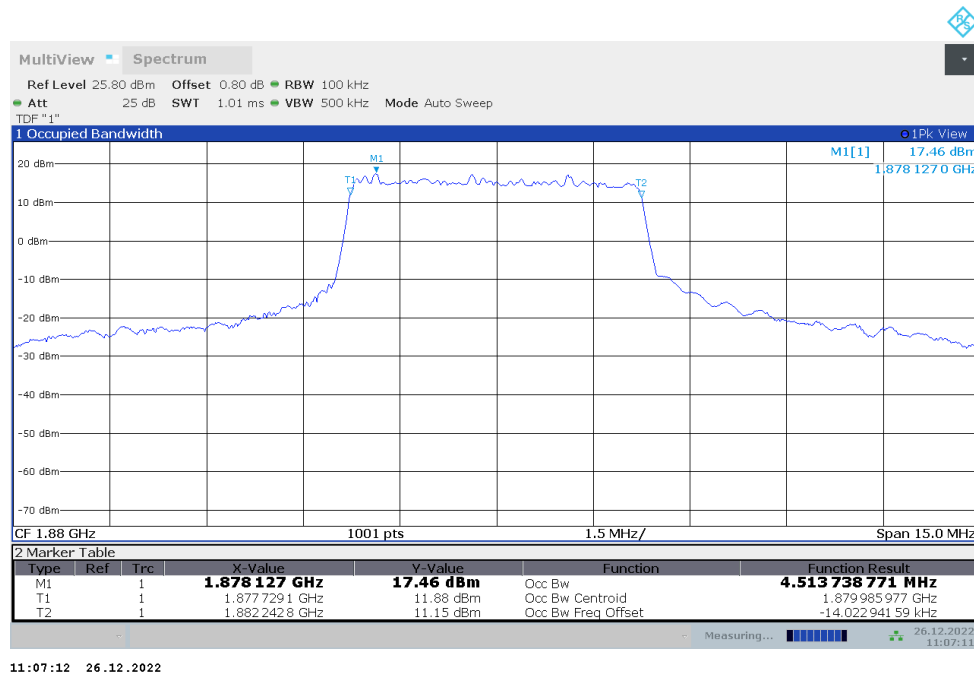
The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

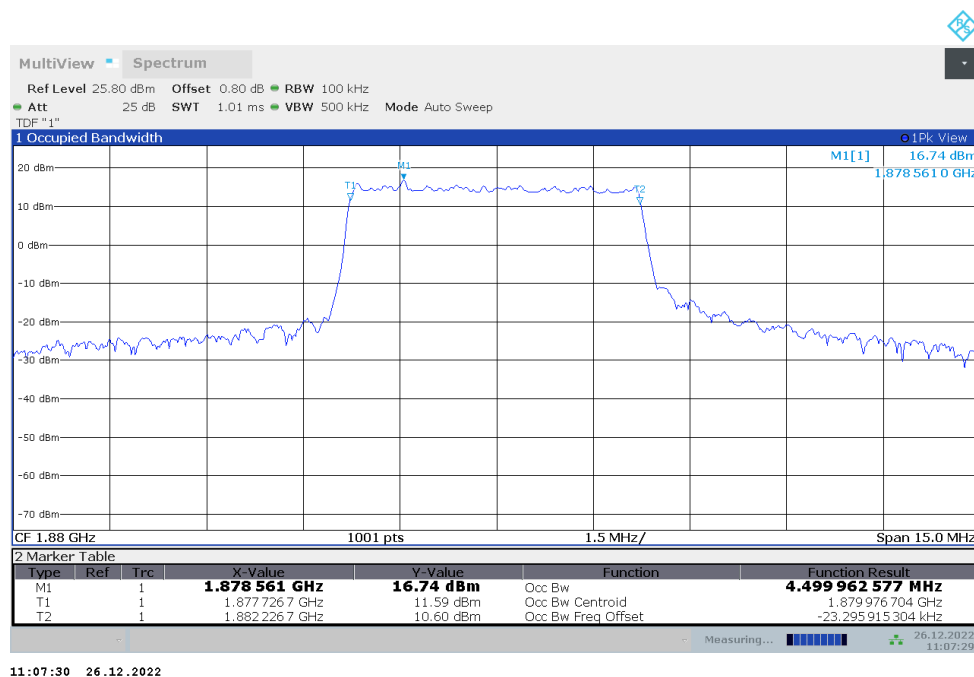
LTE Band 13+NR n2 n2,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	4.513	4.500

n2,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



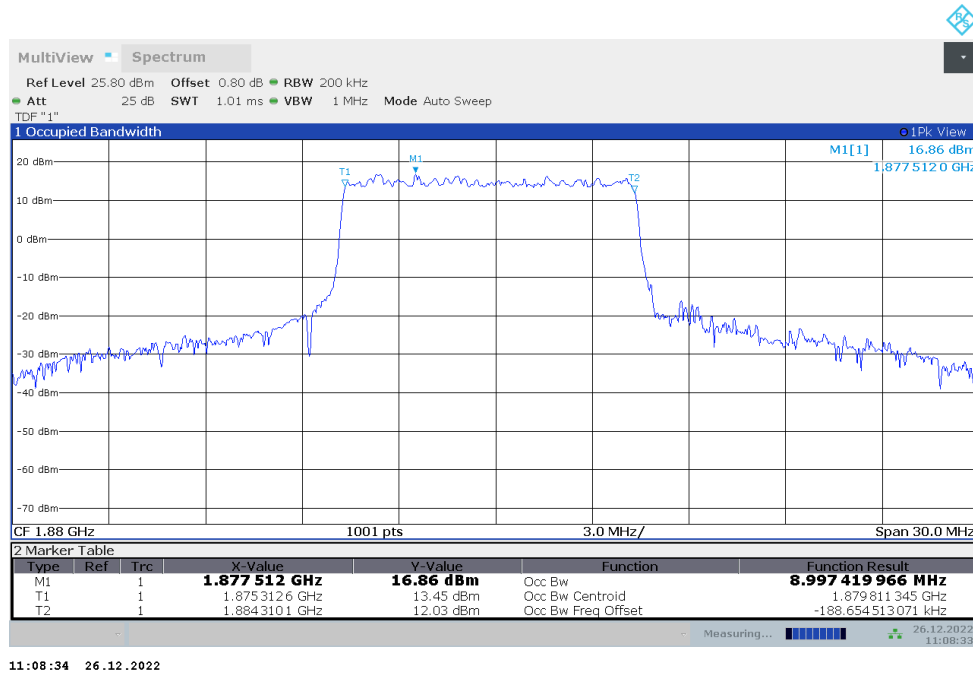
n2,5MHz Bandwidth,DFT-s-QPSK (99% BW)



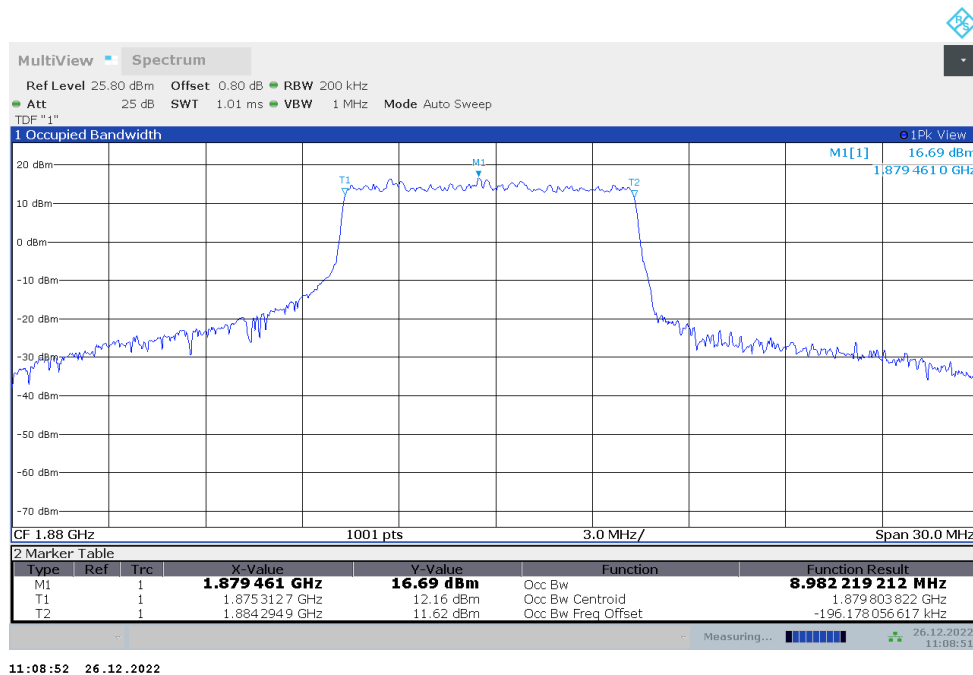
n2,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	8.997	8.982

n2,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



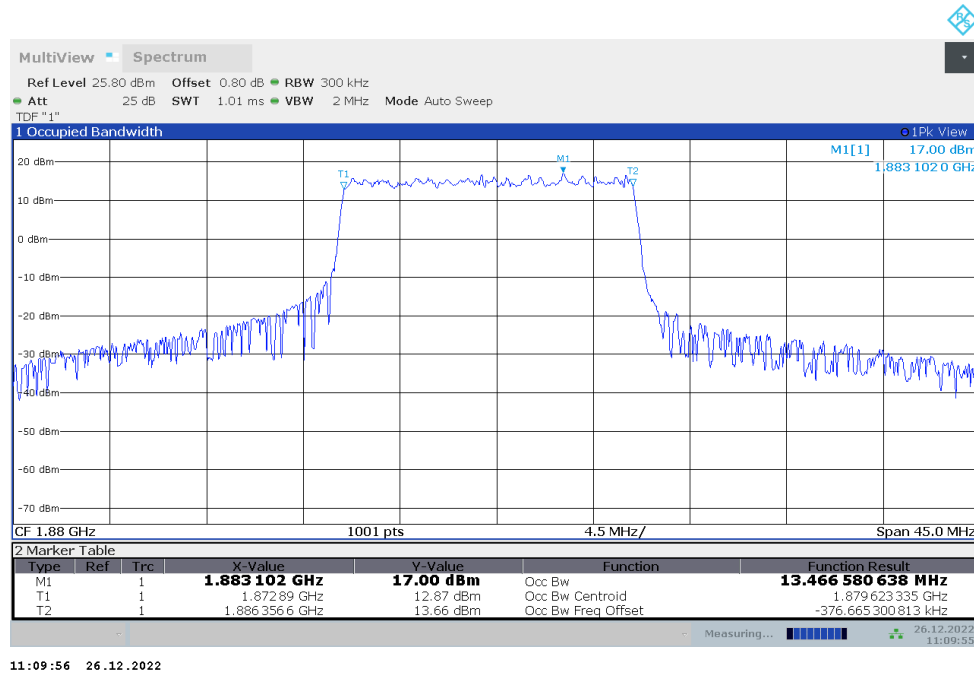
n2,10MHz Bandwidth,DFT-s-QPSK (99% BW)



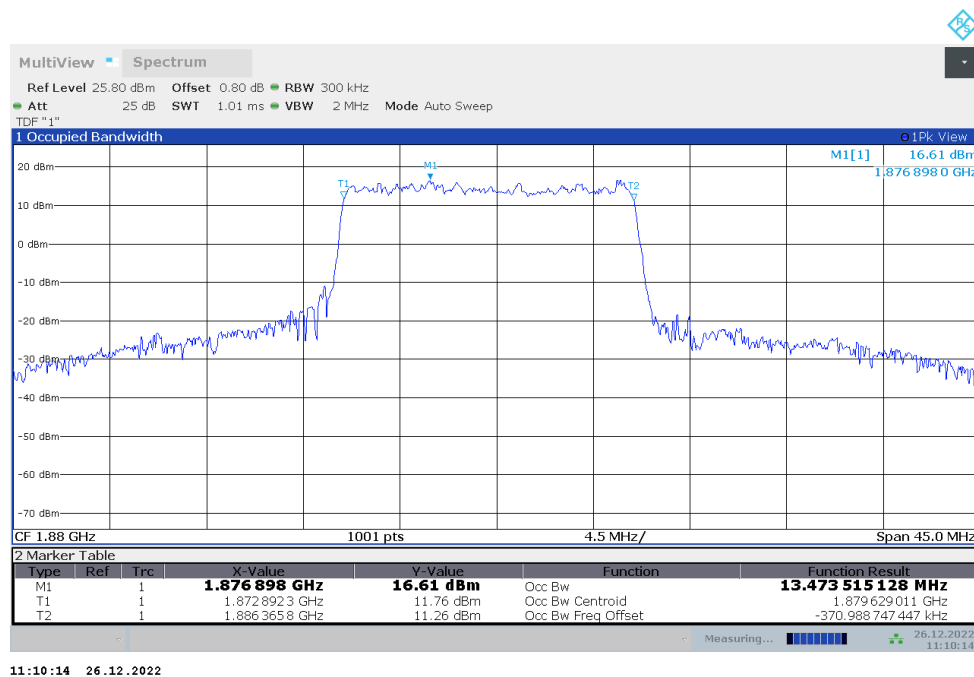
n2,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	13.467	13.474

n2,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



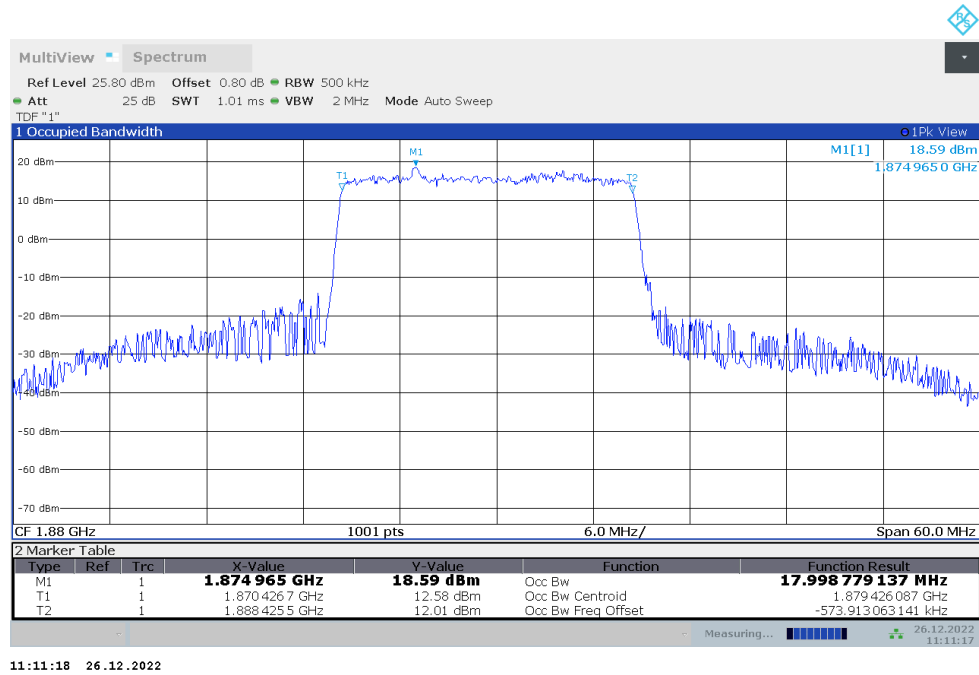
n2,15MHz Bandwidth,DFT-s-QPSK (99% BW)



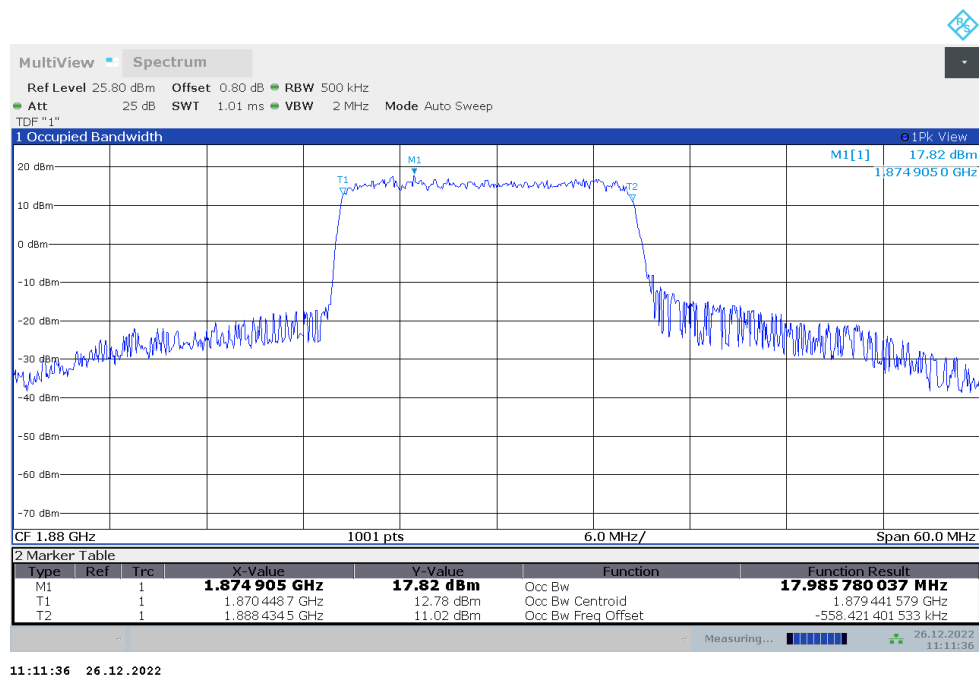
n2,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1880	17.999	17.986

n2,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



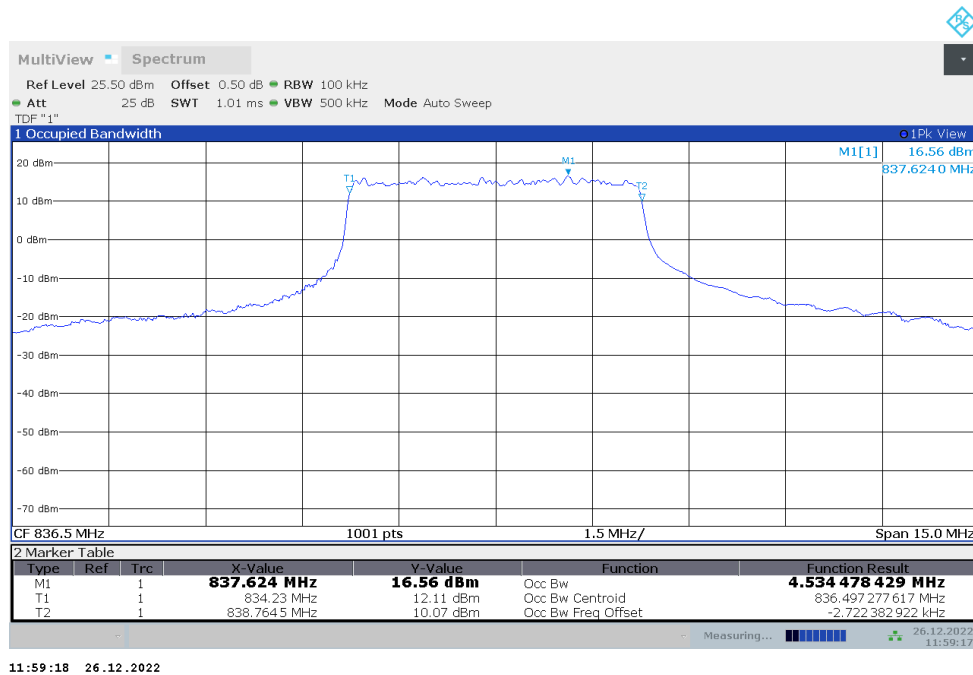
n2,20MHz Bandwidth,DFT-s-QPSK (99% BW)



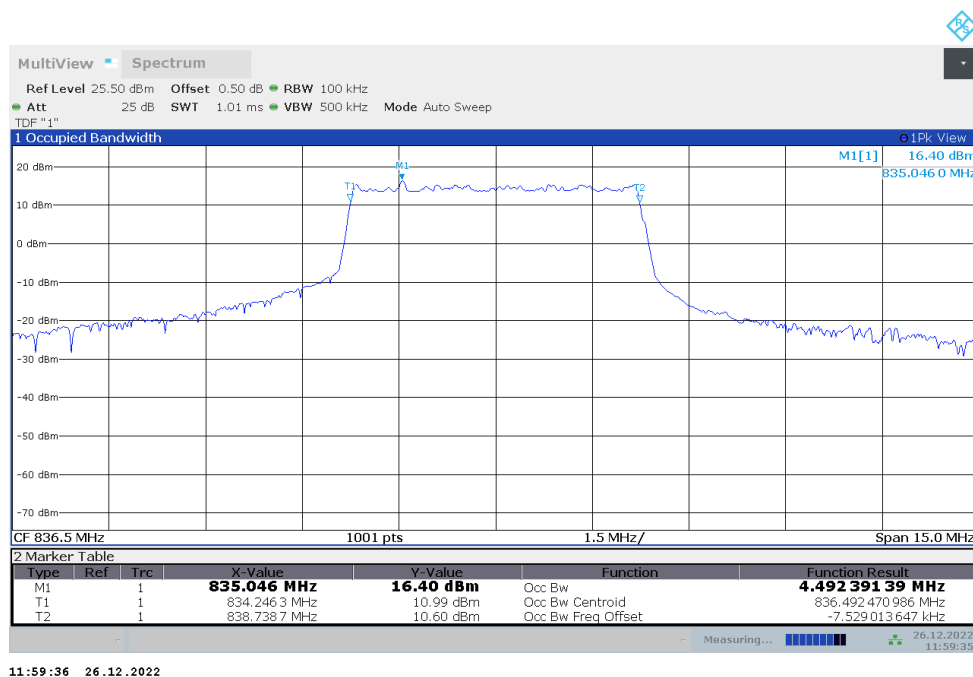
LTE Band 2+NR n5 n5,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	4.534	4.492

n5,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



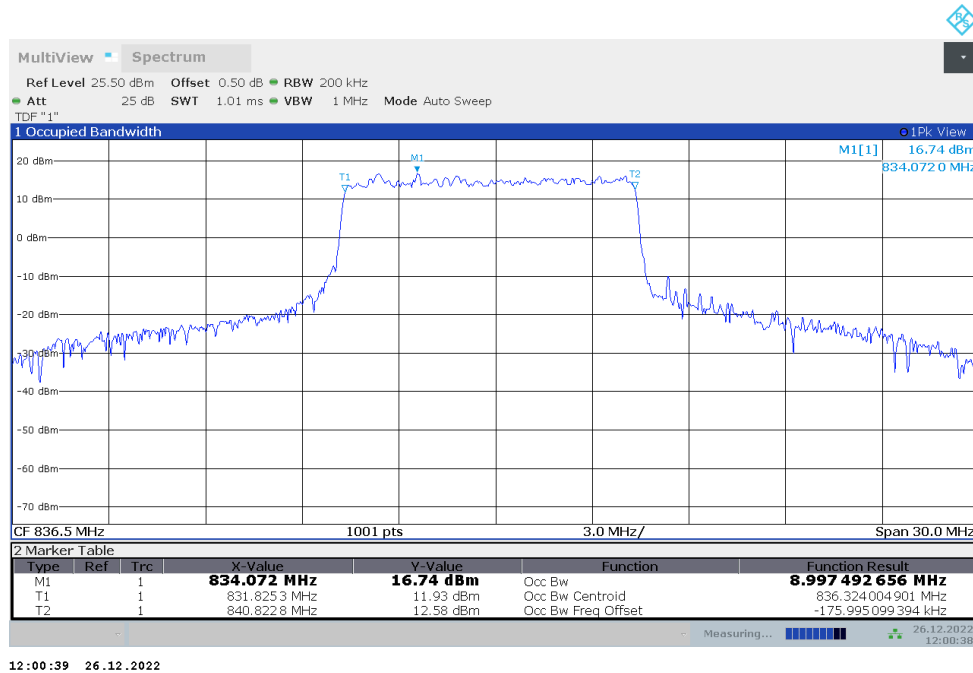
n5,5MHz Bandwidth,DFT-s-QPSK (99% BW)



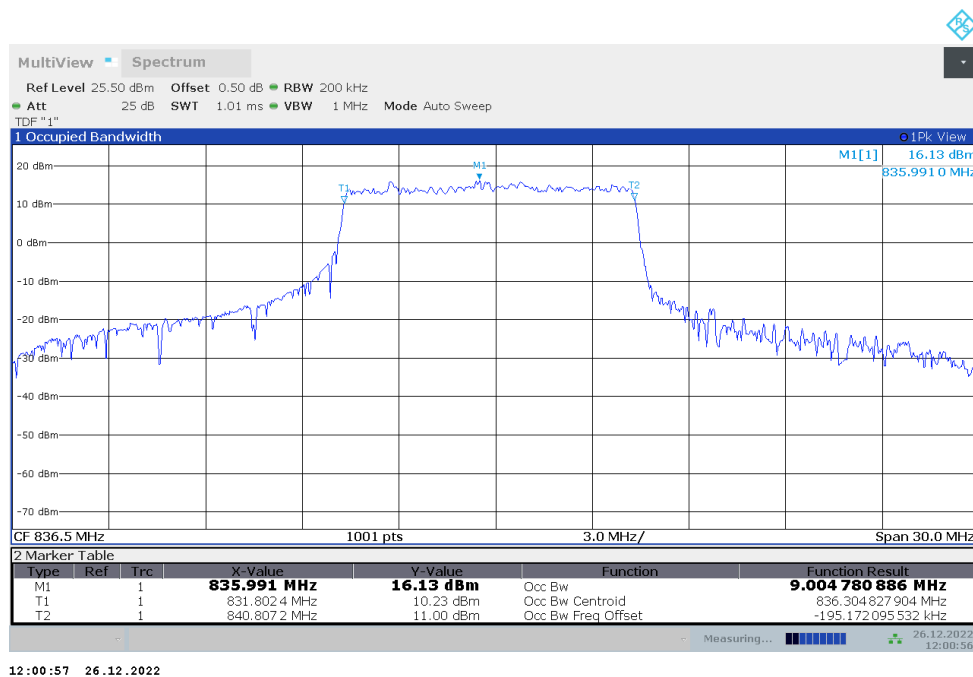
n5,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	8.997	9.005

n5,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



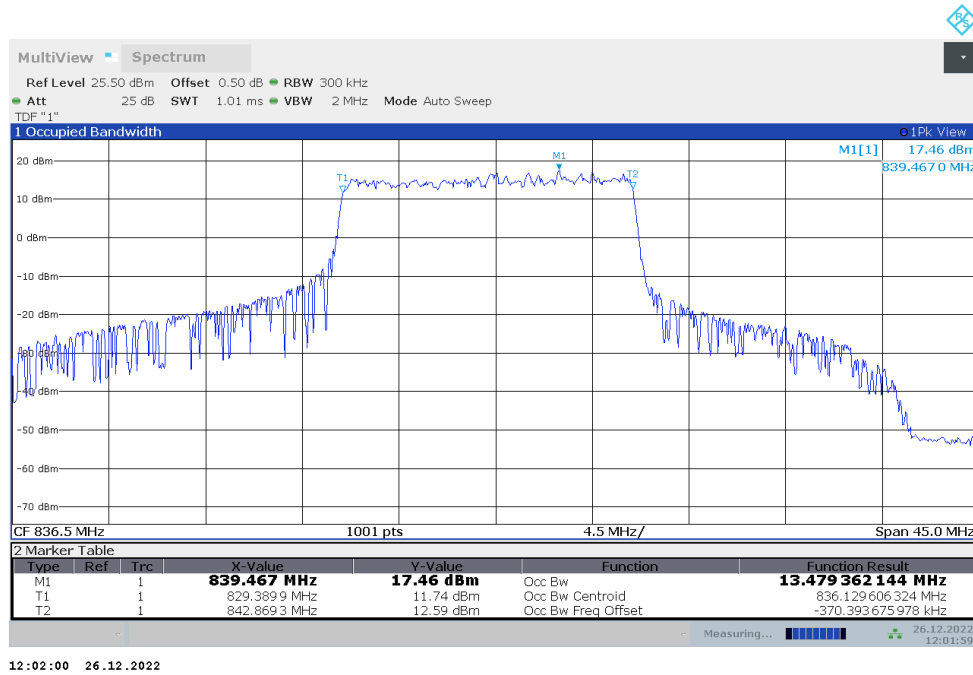
n5,10MHz Bandwidth,DFT-s-QPSK (99% BW)



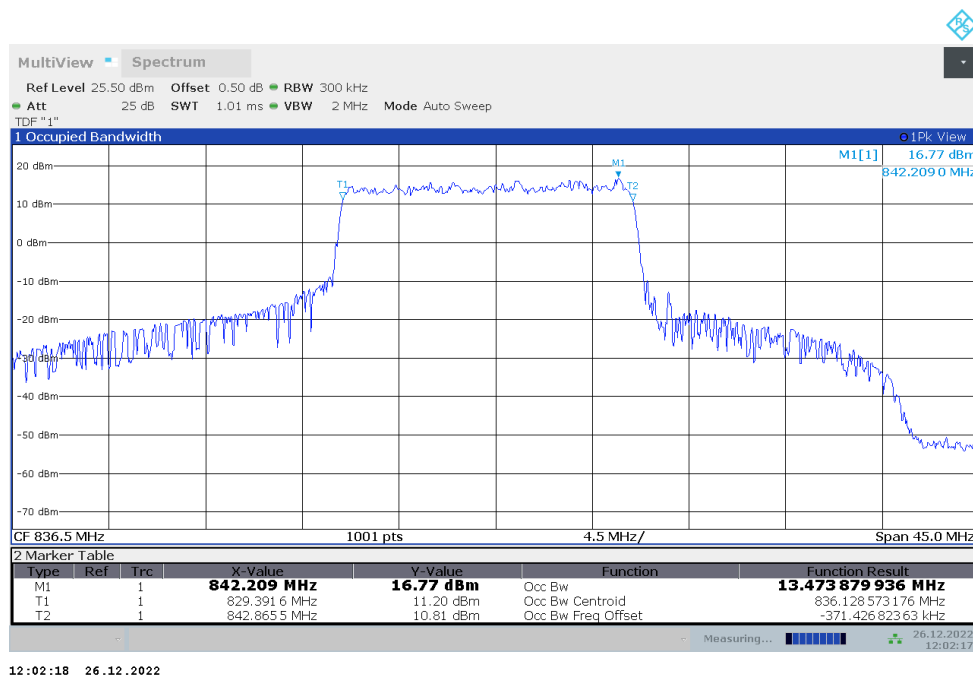
n5,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	13.479	13.474

n5,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



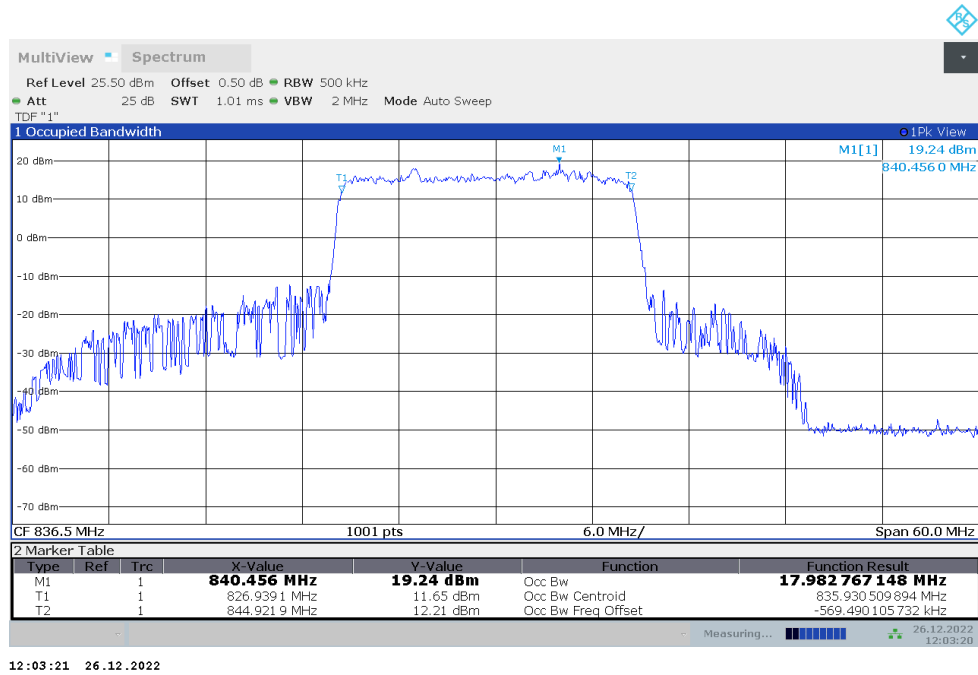
n5,15MHz Bandwidth,DFT-s-QPSK (99% BW)



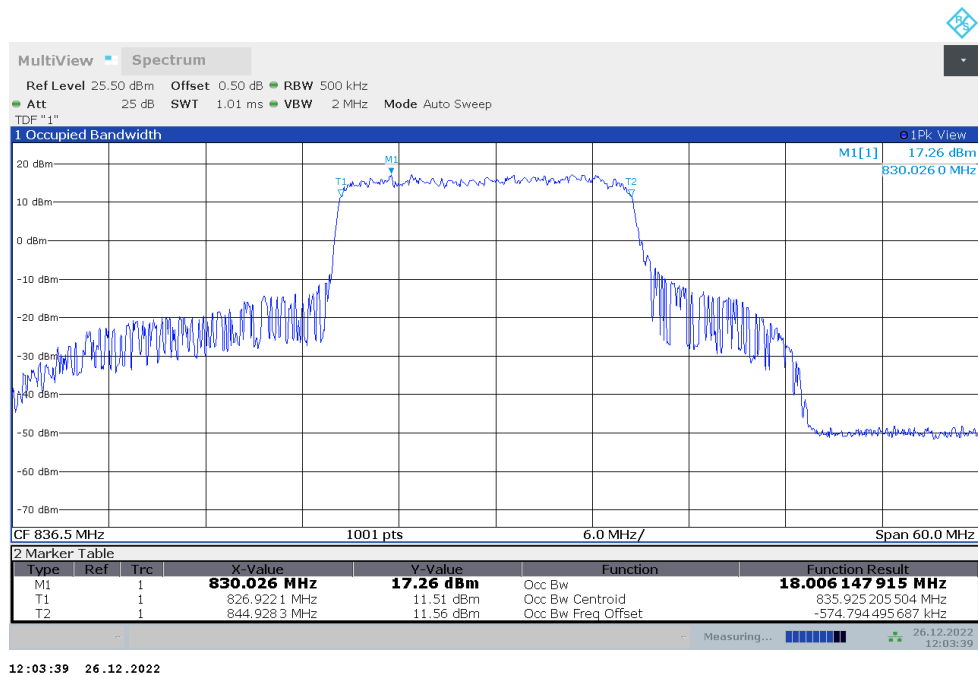
n5,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
836.5	17.983	18.006

n5,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n5,20MHz Bandwidth,DFT-s-QPSK (99% BW)

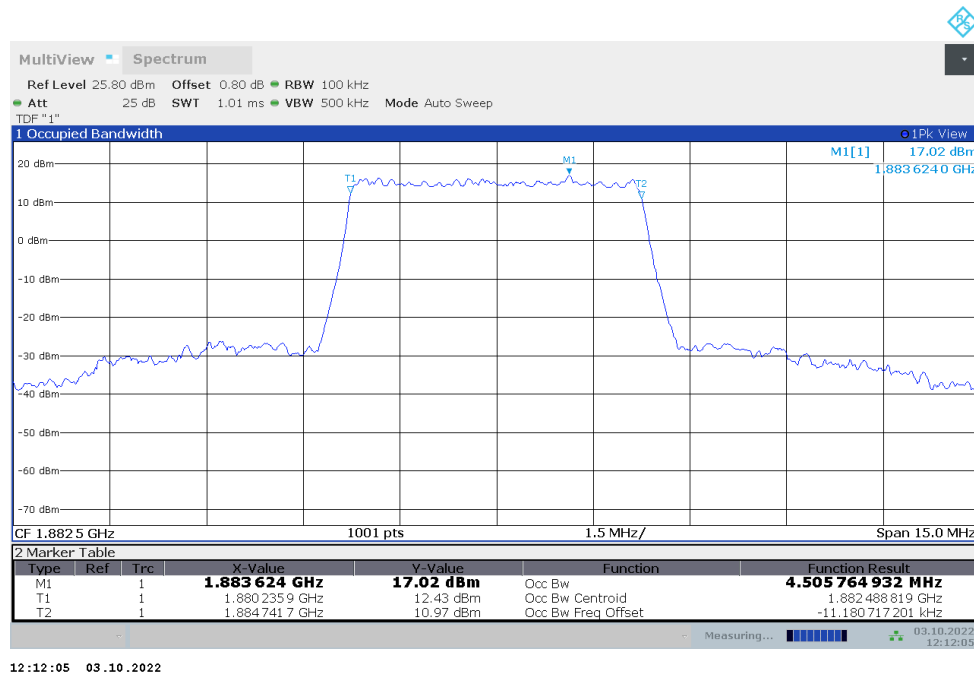


n25

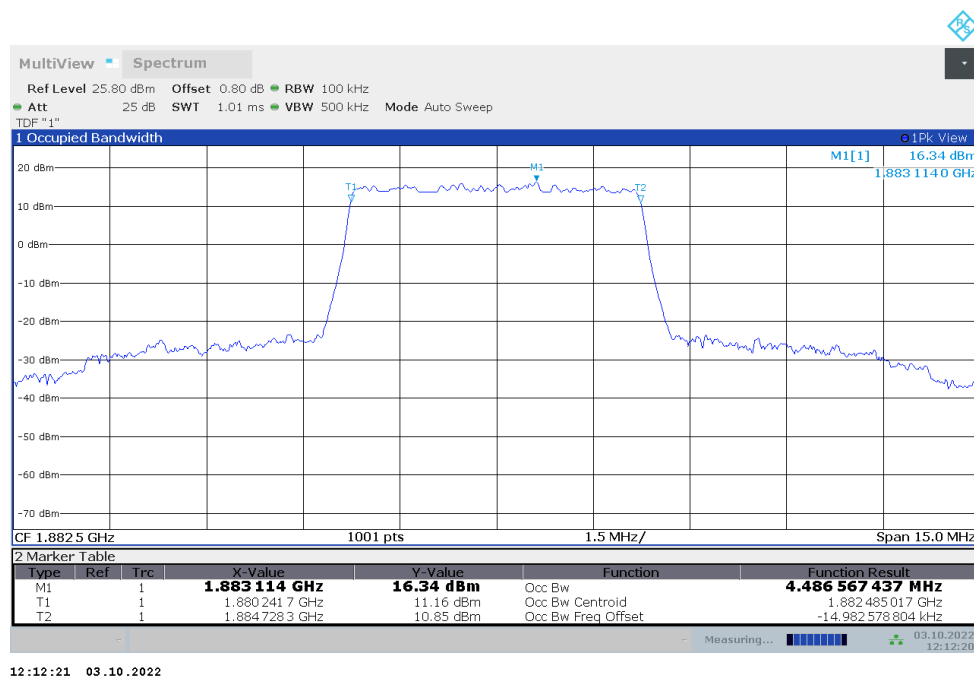
n25,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	4.506	4.487

n25,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



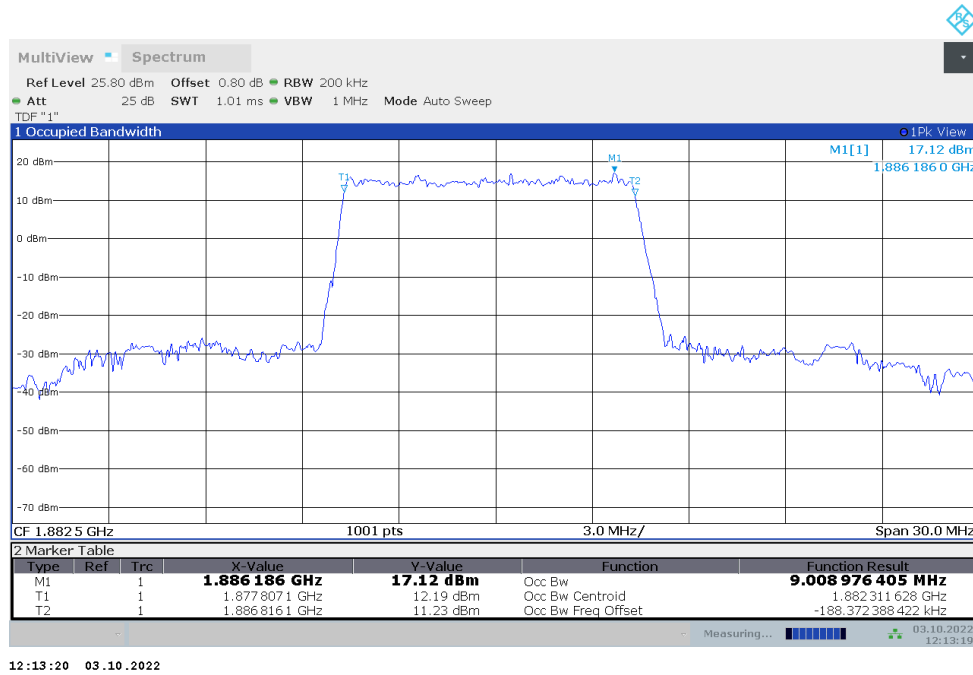
n25,5MHz Bandwidth,DFT-s-QPSK (99% BW)



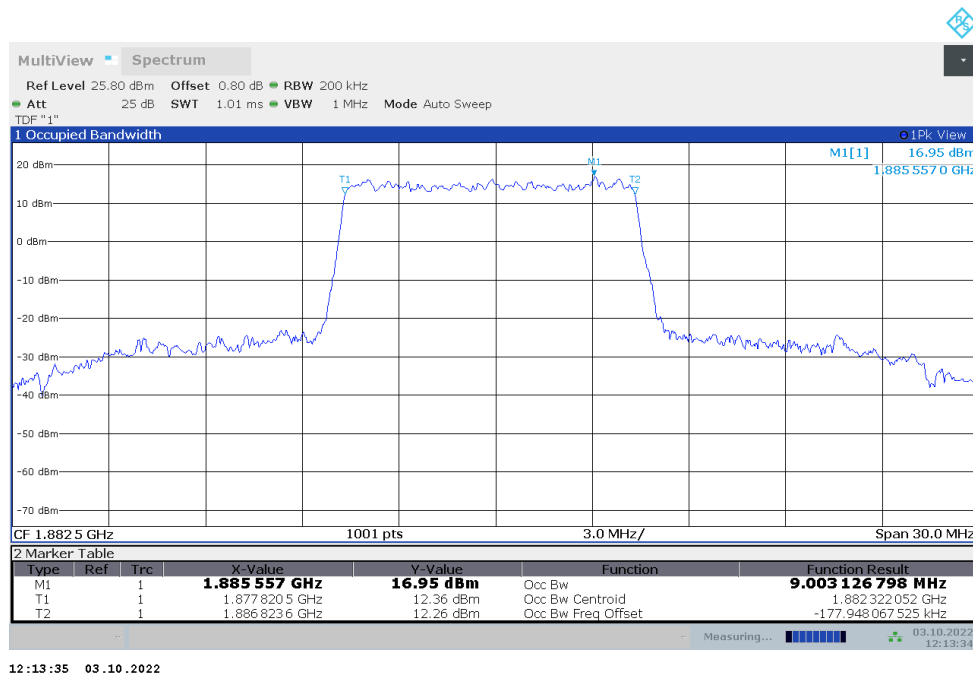
n25,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	9.009	9.003

n25,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



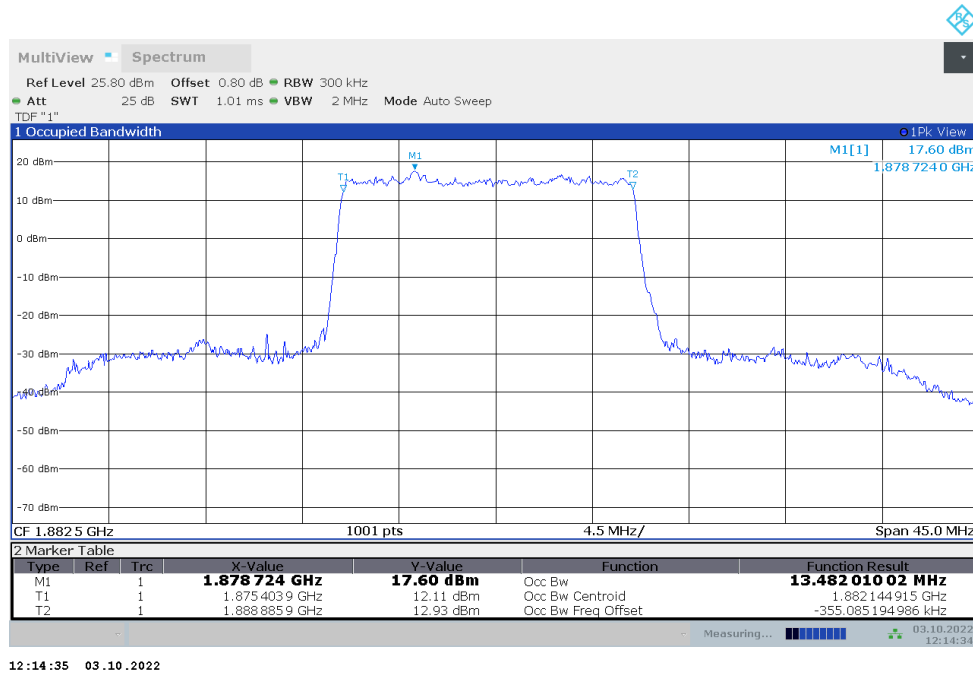
n25,10MHz Bandwidth,DFT-s-QPSK (99% BW)



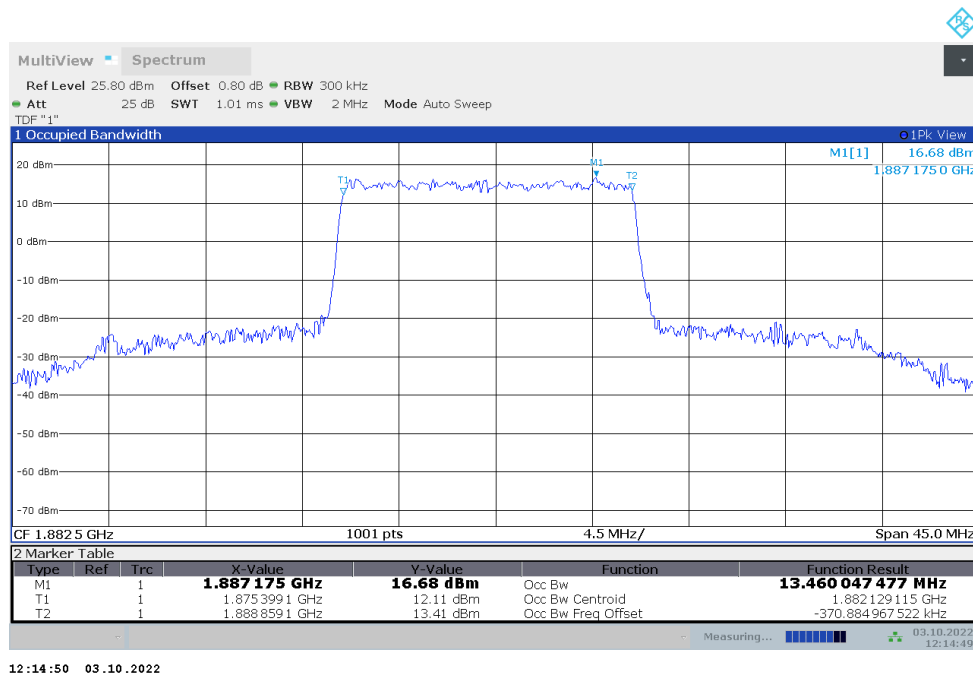
n25,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	13.482	13.460

n25,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



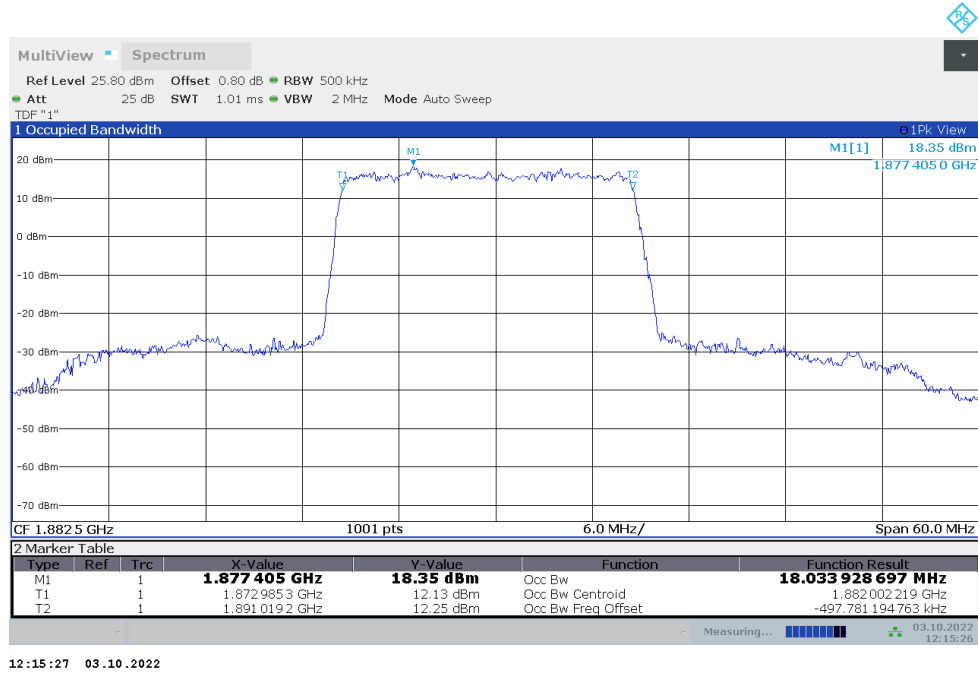
n25,15MHz Bandwidth,DFT-s-QPSK (99% BW)



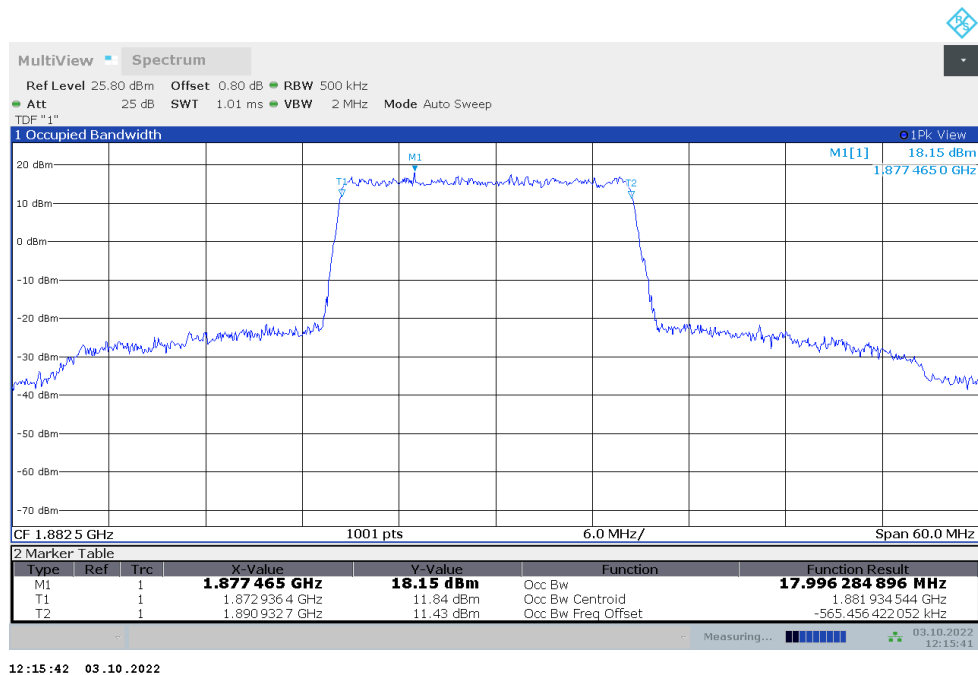
n25,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1882.5	18.034	17.996

n25,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



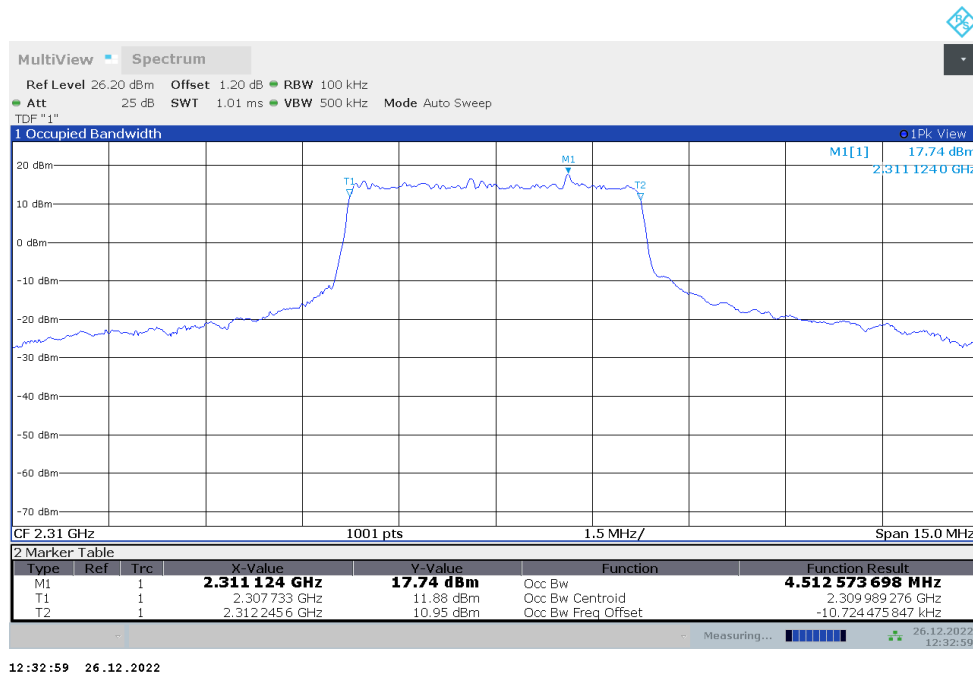
n25,20MHz Bandwidth,DFT-s-QPSK (99% BW)



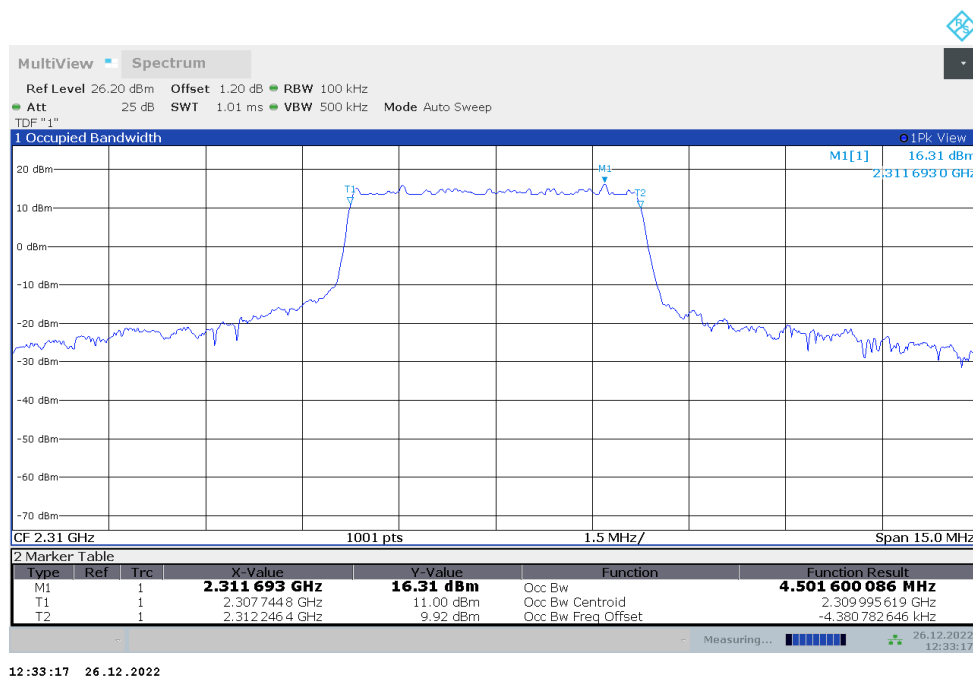
LTE Band 5+NR n30 n30,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2310	4.513	4.502

n30,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



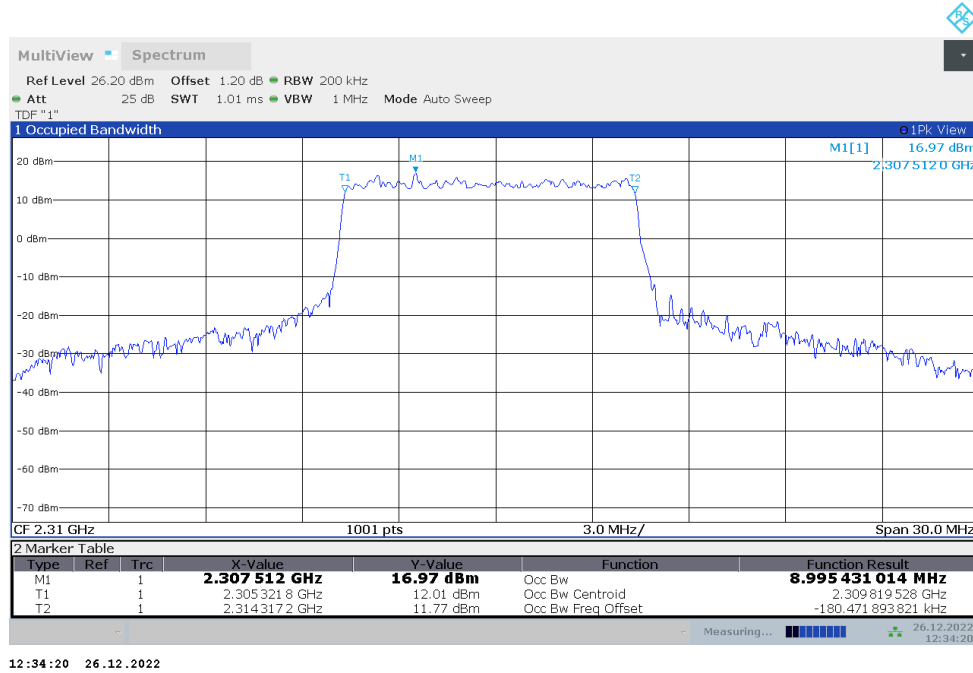
n30,5MHz Bandwidth,DFT-s-QPSK (99% BW)



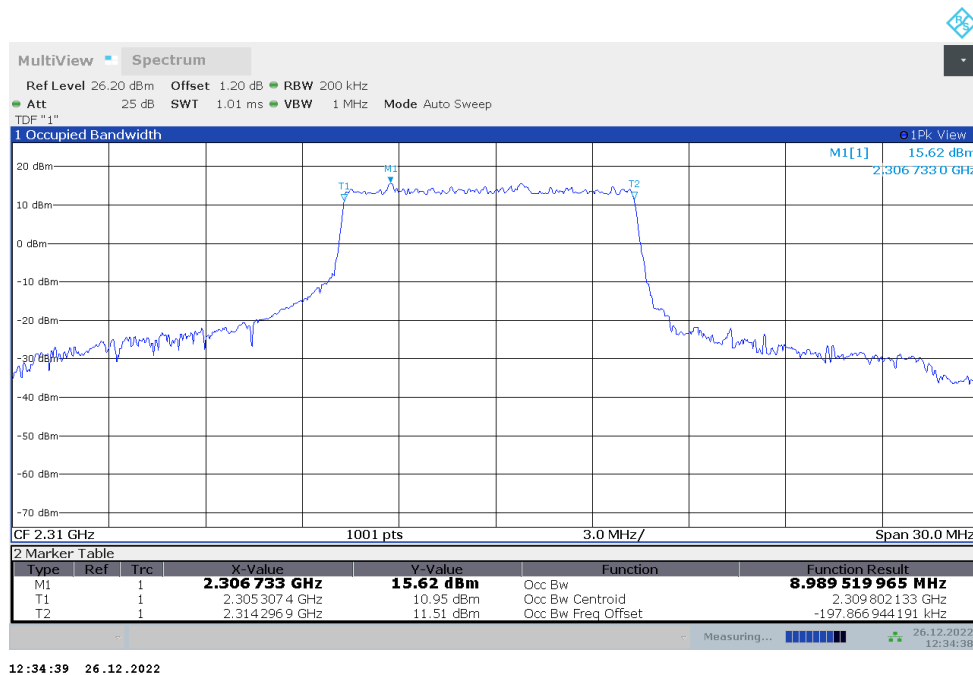
n30,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2310	8.995	8.990

n30,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n30,10MHz Bandwidth,DFT-s-QPSK (99% BW)

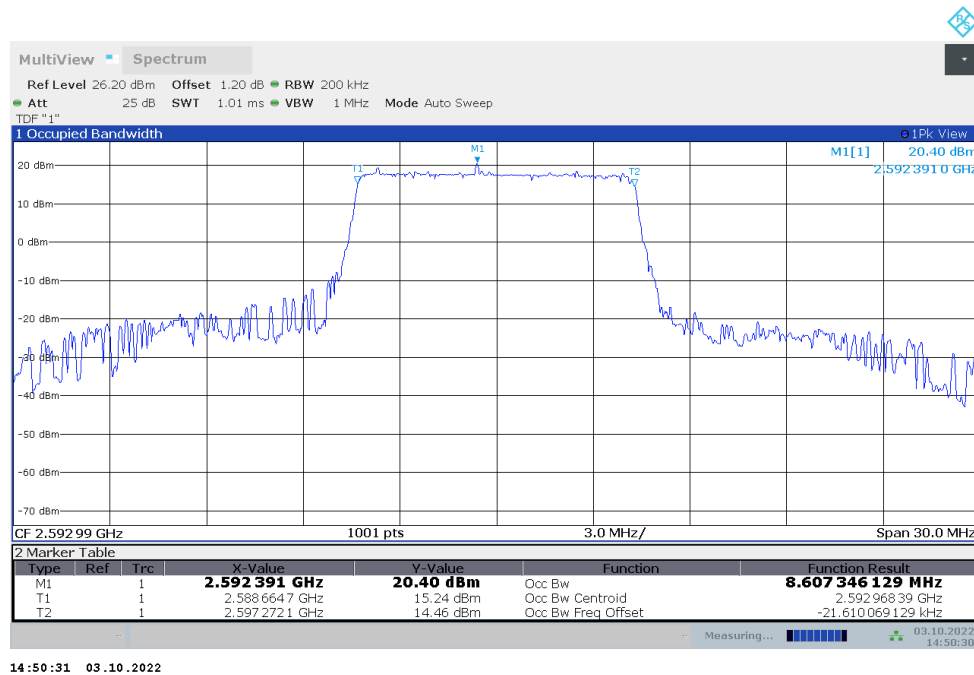


n41

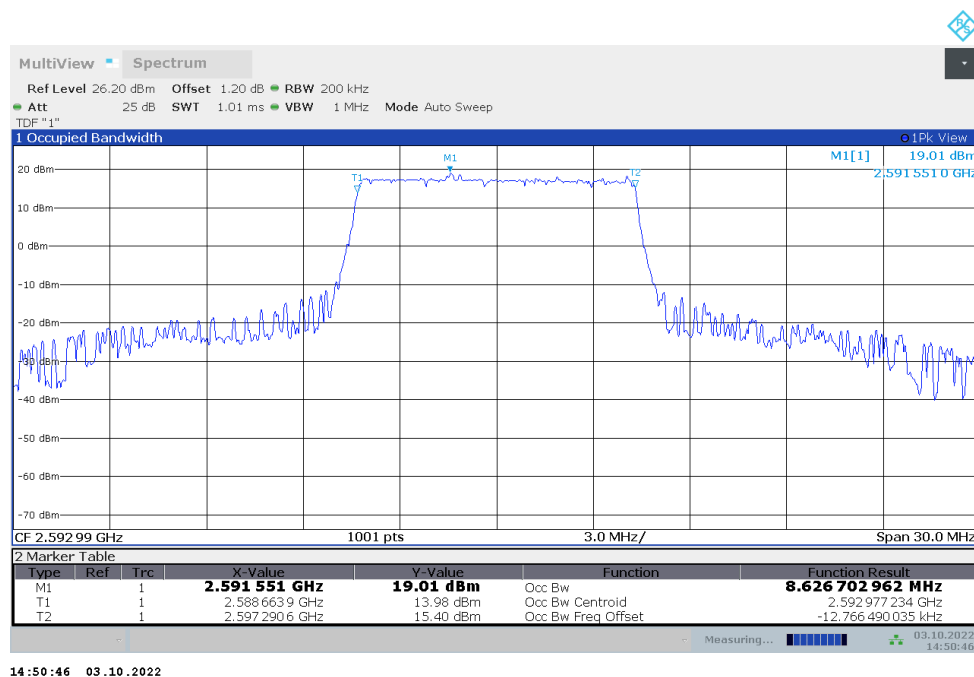
n41,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	8.607	8.627

n41,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



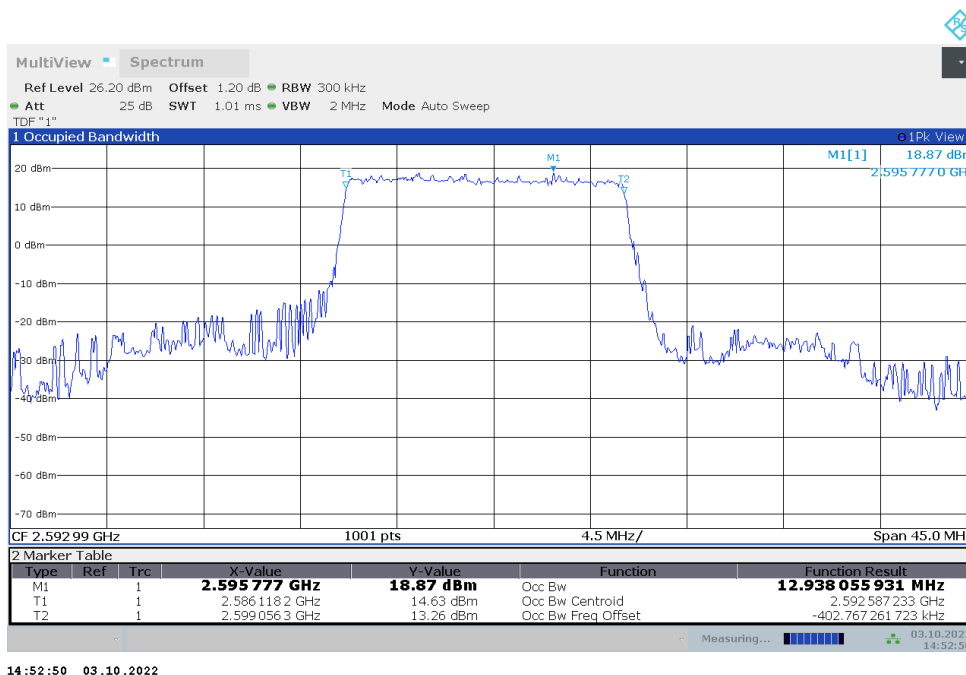
n41,10MHz Bandwidth,DFT-s-QPSK (99% BW)



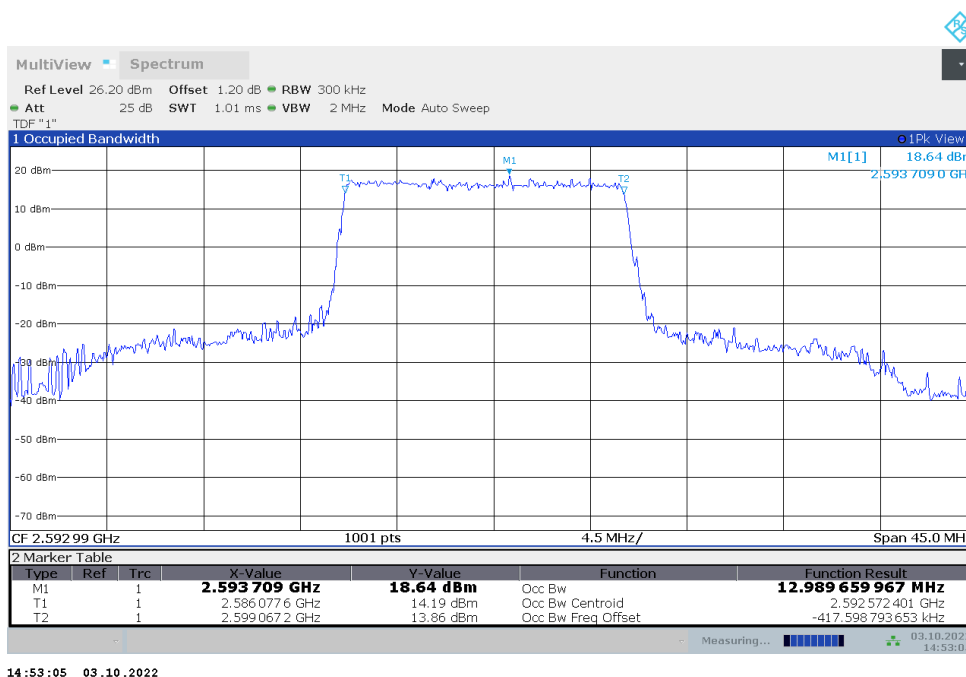
n41,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	12.938	12.990

n41,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



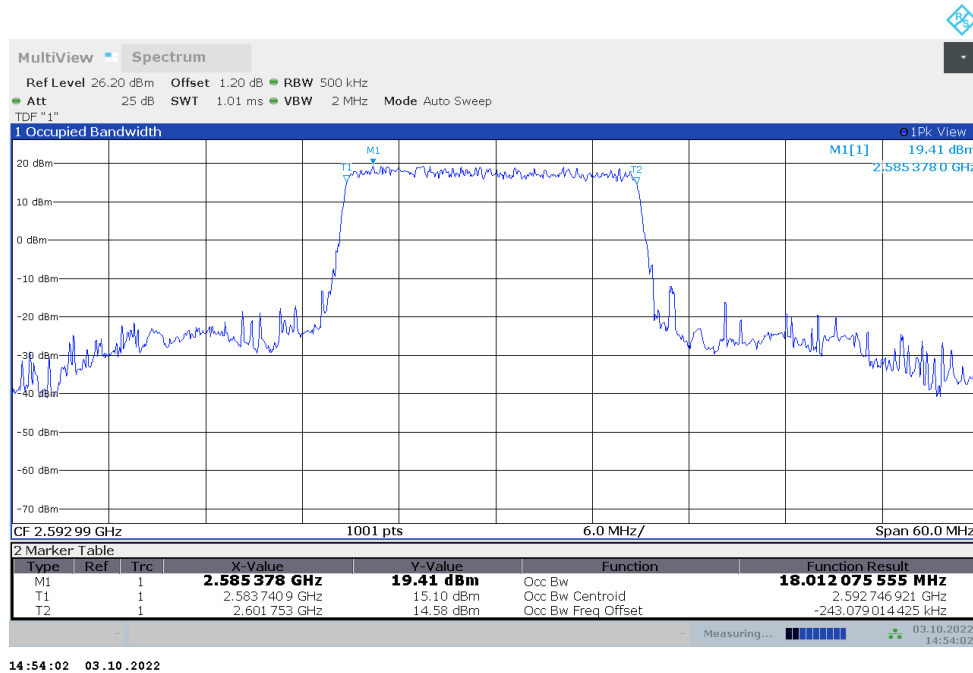
n41,15MHz Bandwidth,DFT-s-QPSK (99% BW)



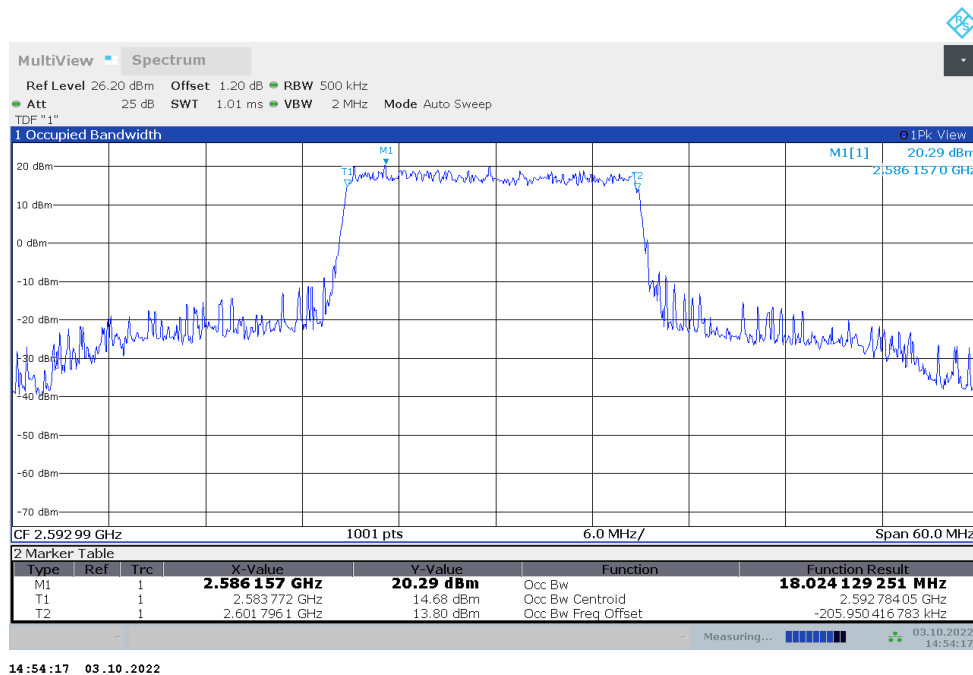
n41,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	18.012	18.024

n41,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



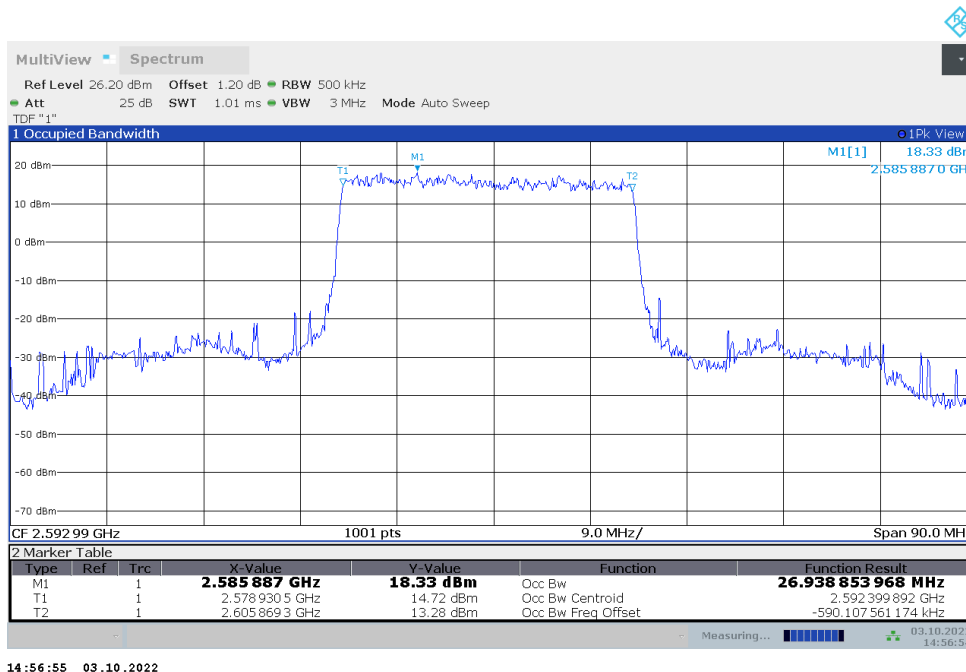
n41,20MHz Bandwidth,DFT-s-QPSK (99% BW)



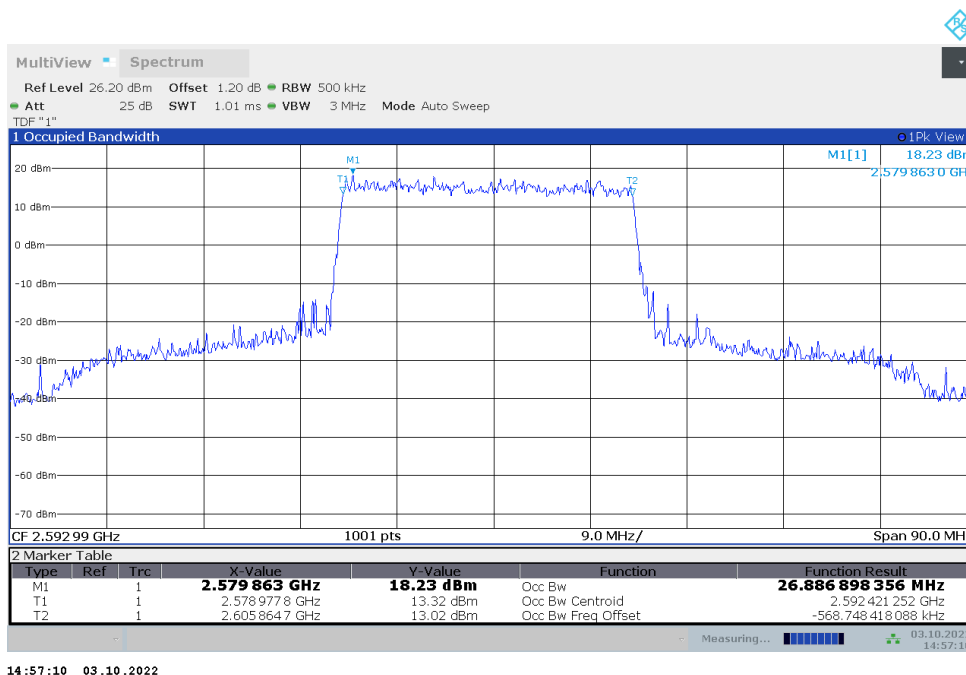
n41,30MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	26.939	26.887

n41,30MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



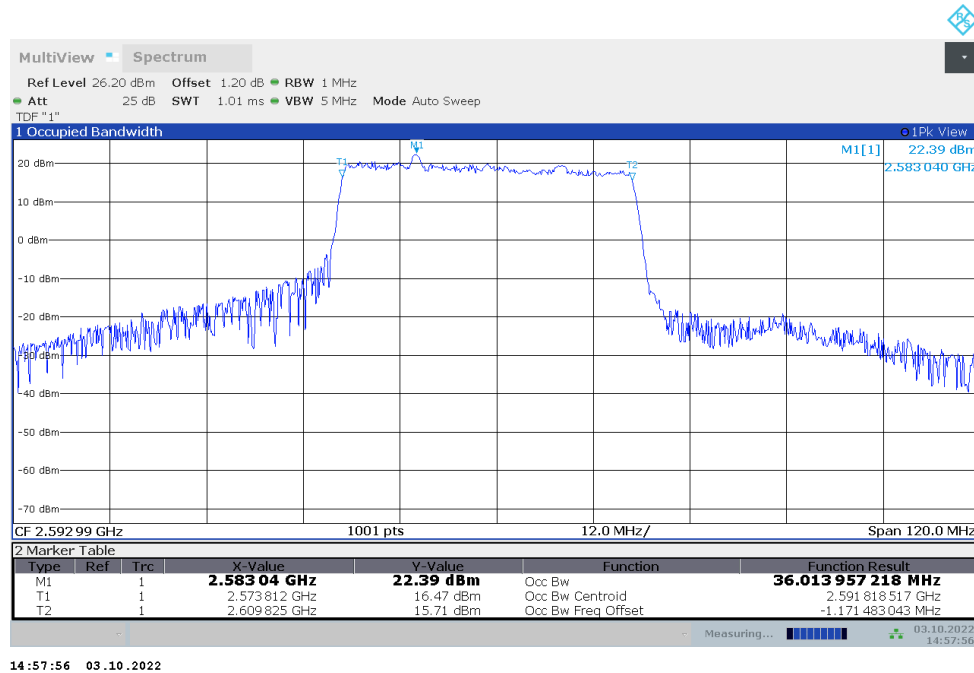
n41,30MHz Bandwidth,DFT-s-QPSK (99% BW)



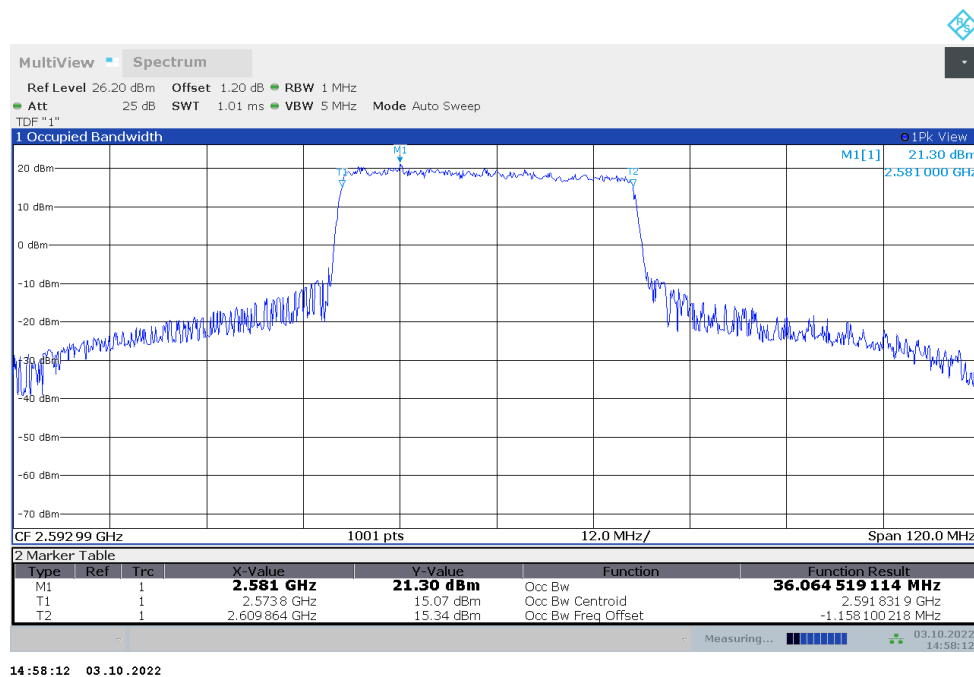
n41,40MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	36.014	36.065

n41,40MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



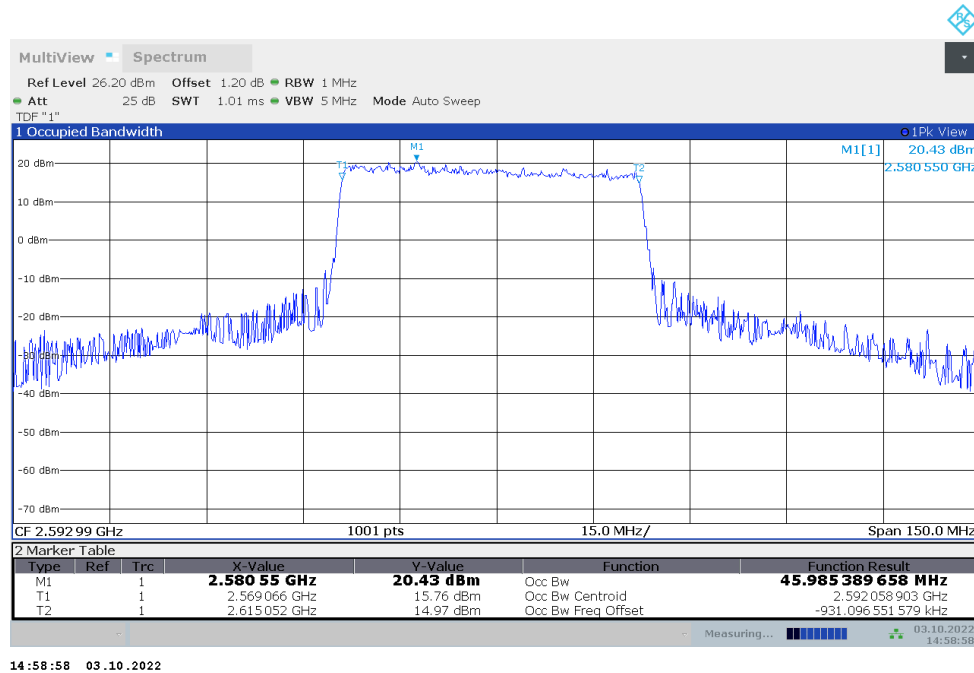
n41,40MHz Bandwidth,DFT-s-QPSK (99% BW)



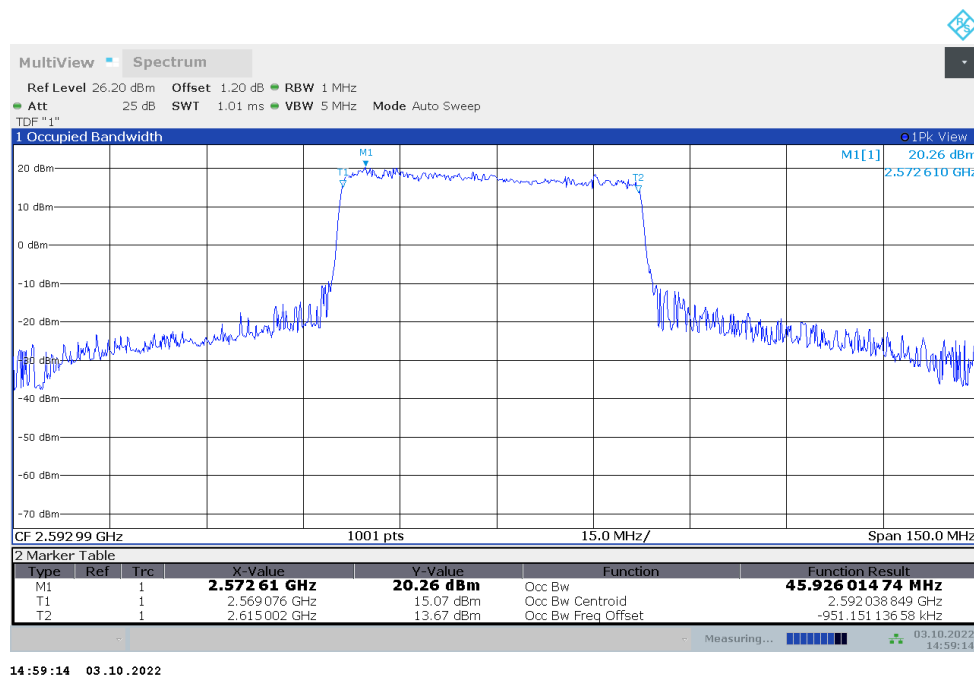
n41,50MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	45.985	45.926

n41,50MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



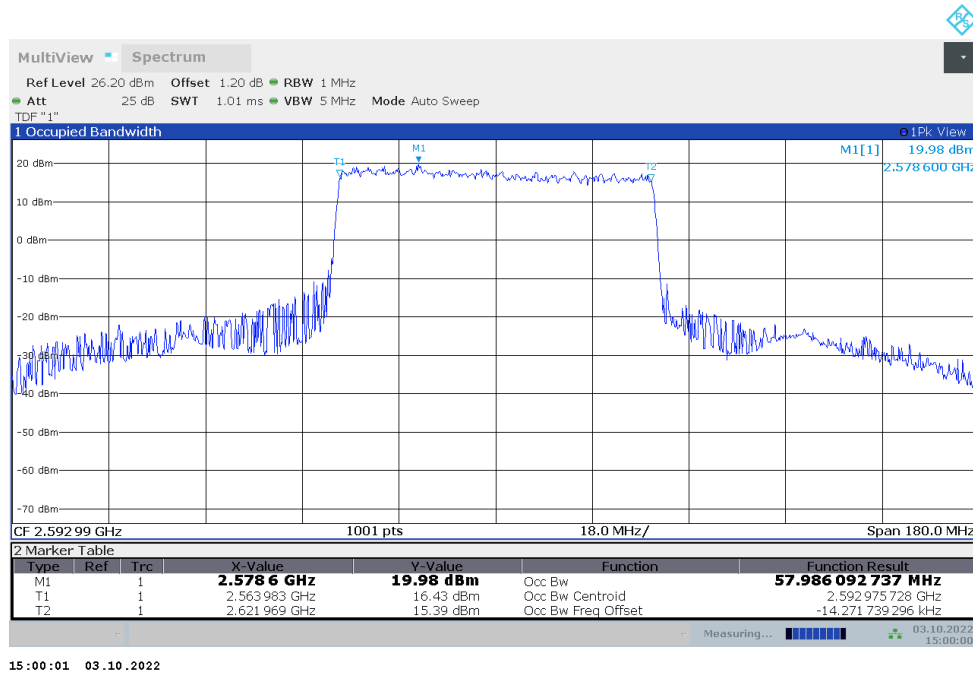
n41,50MHz Bandwidth,DFT-s-QPSK (99% BW)



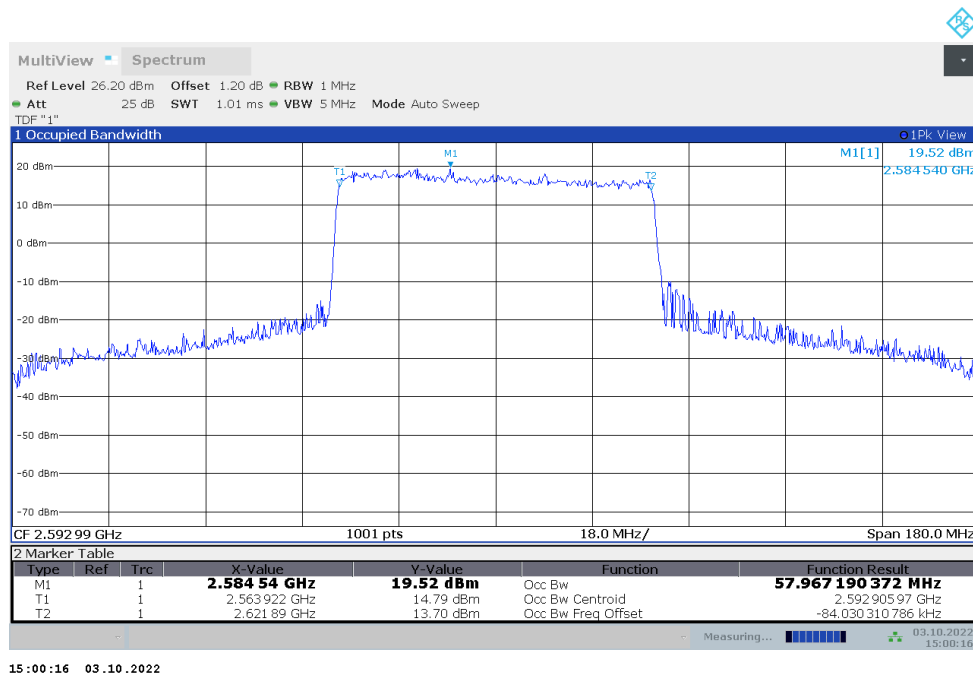
n41,60MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	57.986	57.967

n41,60MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



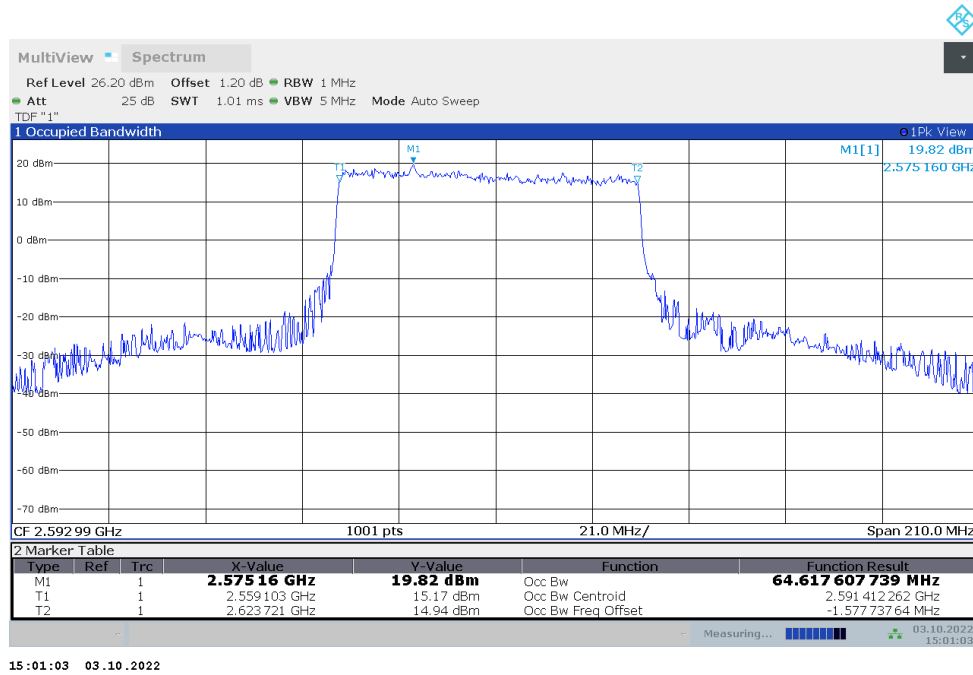
n41,60MHz Bandwidth,DFT-s-QPSK (99% BW)



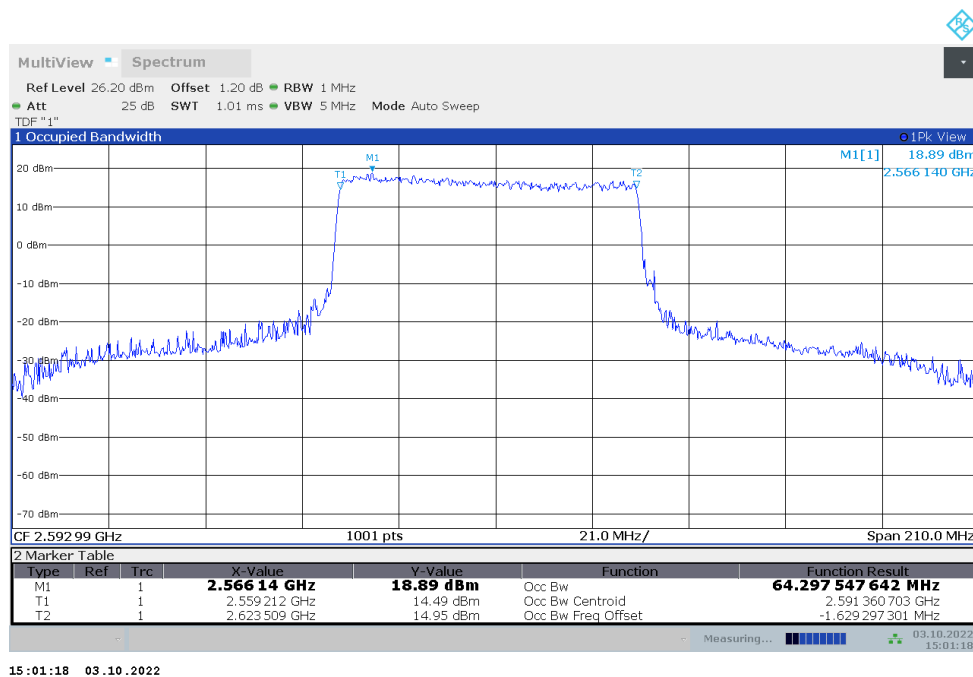
n41,70MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	64.618	64.298

n41,70MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



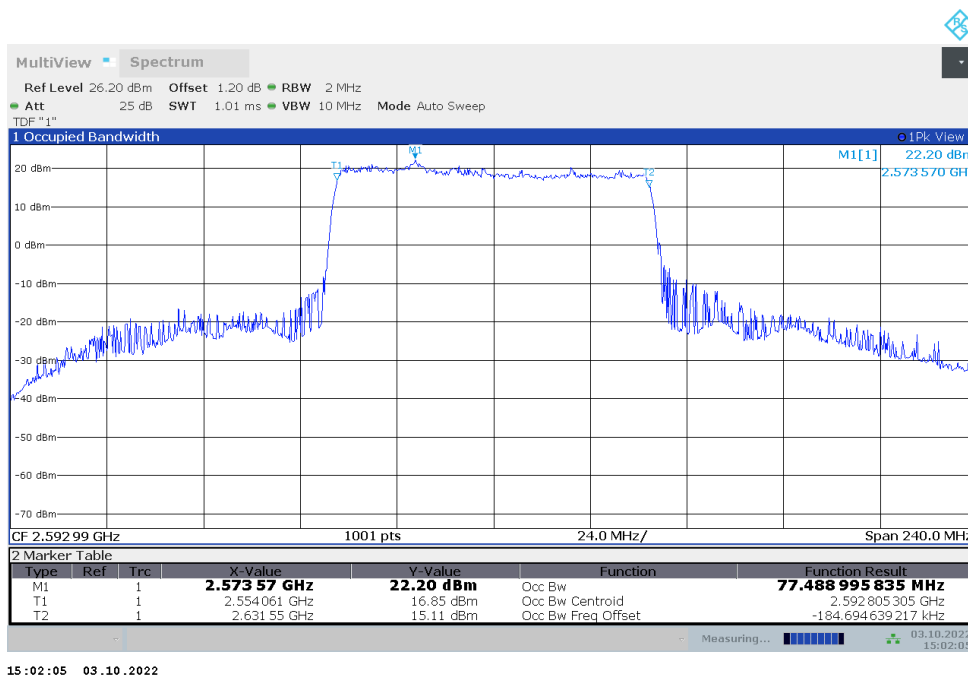
n41,70MHz Bandwidth,DFT-s-QPSK (99% BW)



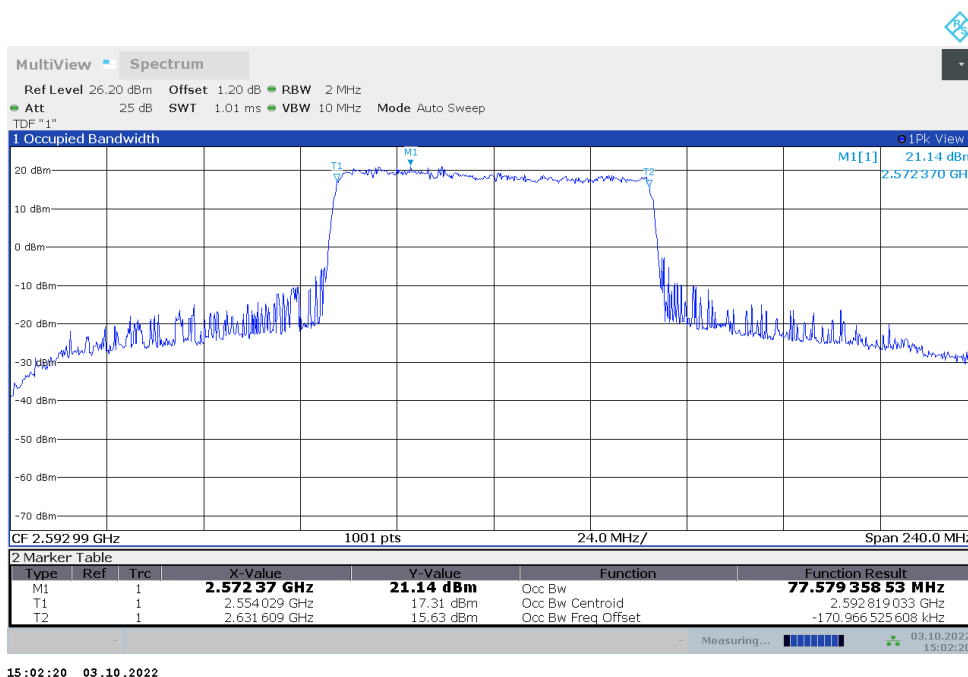
n41,80MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	77.489	77.579

n41,80MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



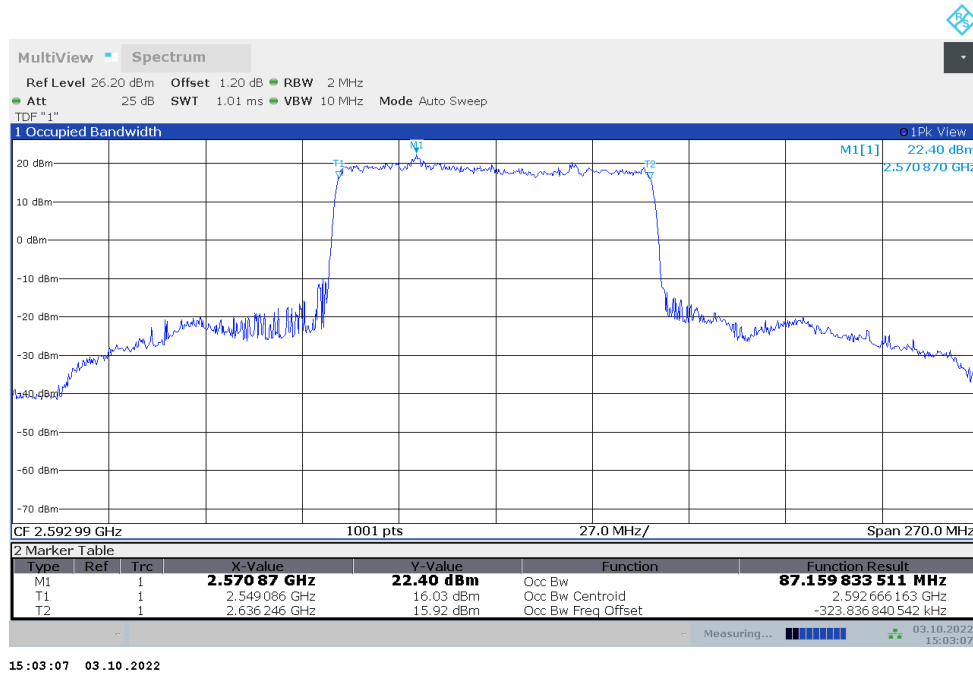
n41,80MHz Bandwidth,DFT-s-QPSK (99% BW)



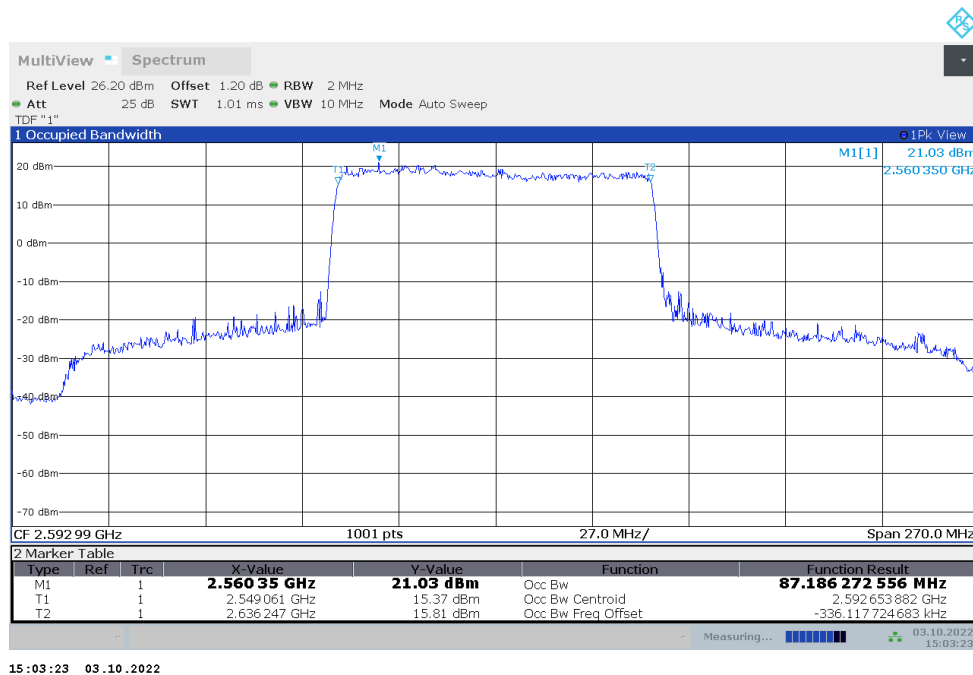
n41,90MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	87.160	87.186

n41,90MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



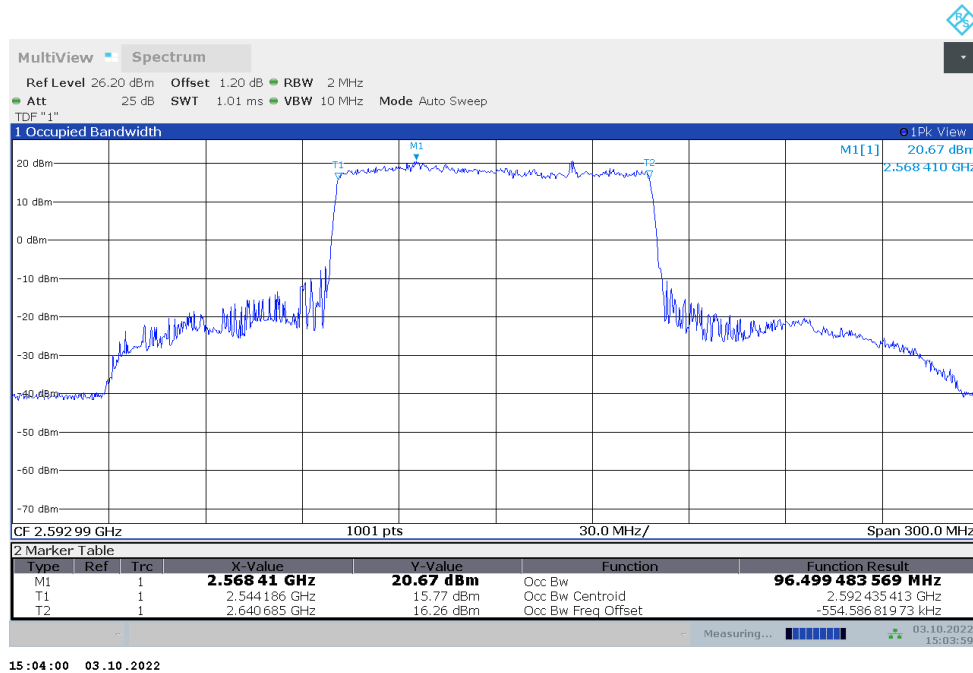
n41,90MHz Bandwidth,DFT-s-QPSK (99% BW)



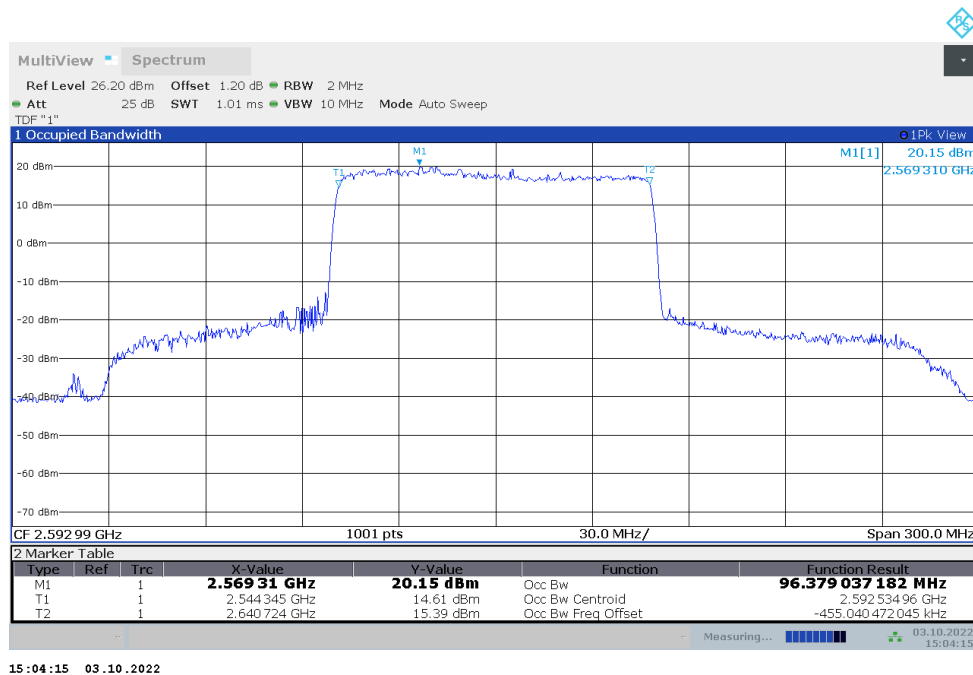
n41,100MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	96.499	96.379

n41,100MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n41,100MHz Bandwidth,DFT-s-QPSK (99% BW)

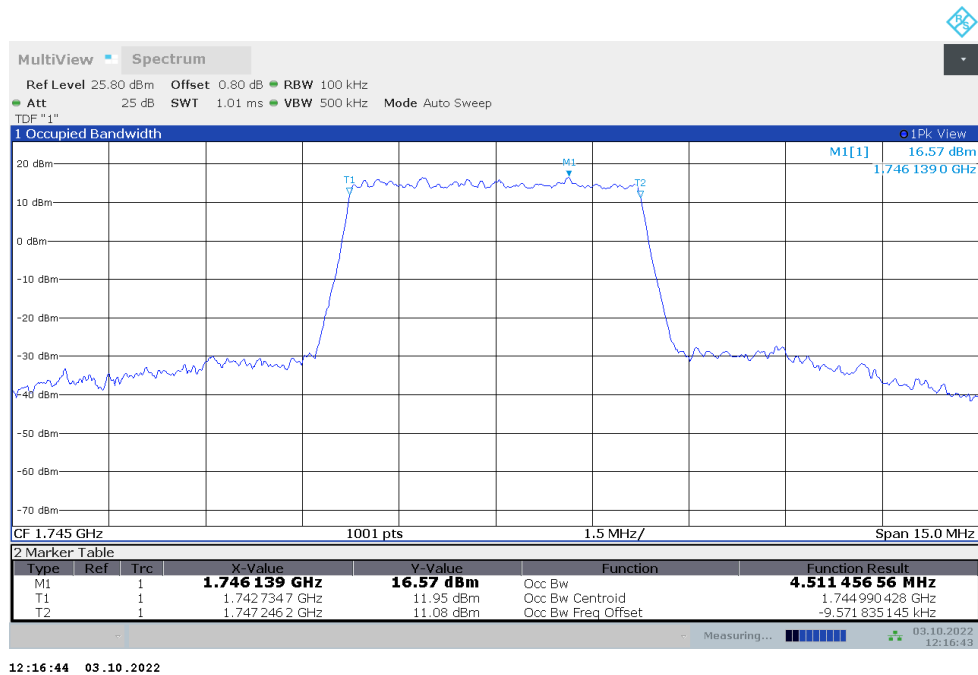


n66

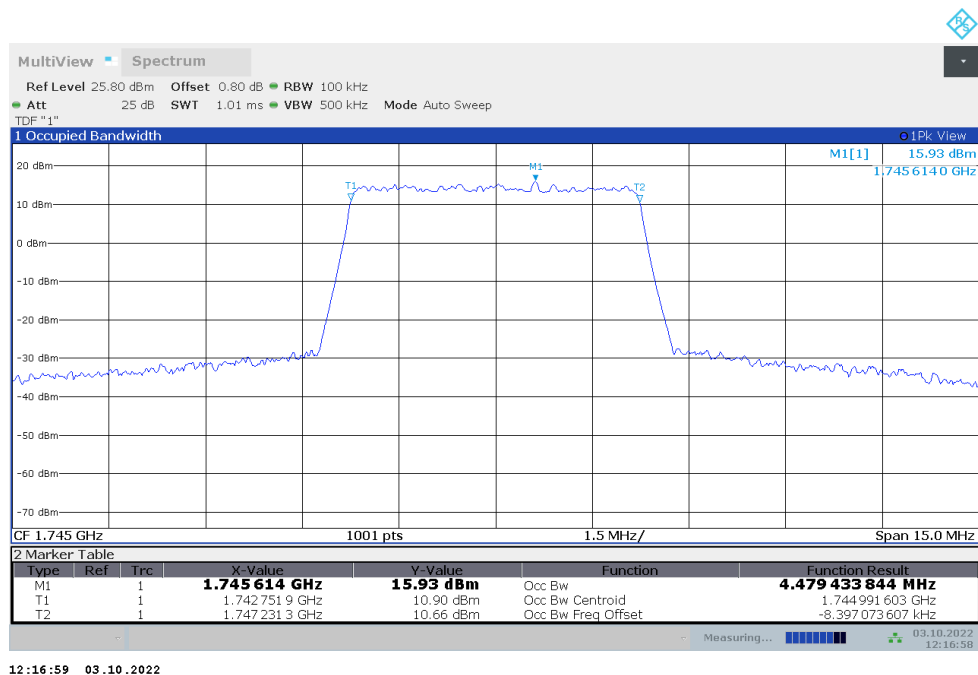
n66,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	4.511	4.479

n66,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



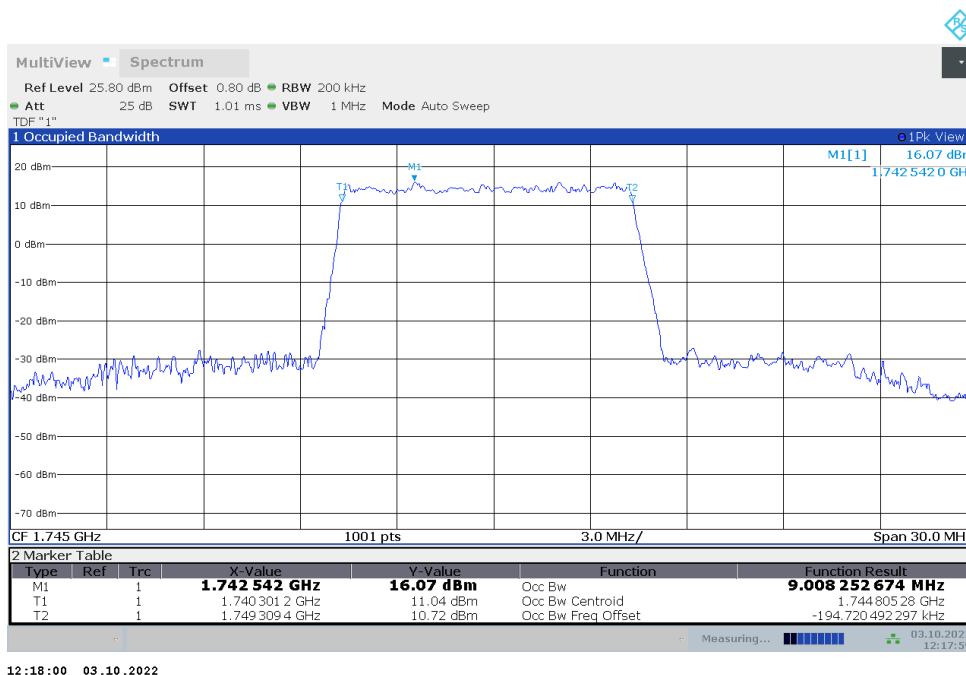
n66,5MHz Bandwidth,DFT-s-QPSK (99% BW)



n66,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	9.008	9.000

n66,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



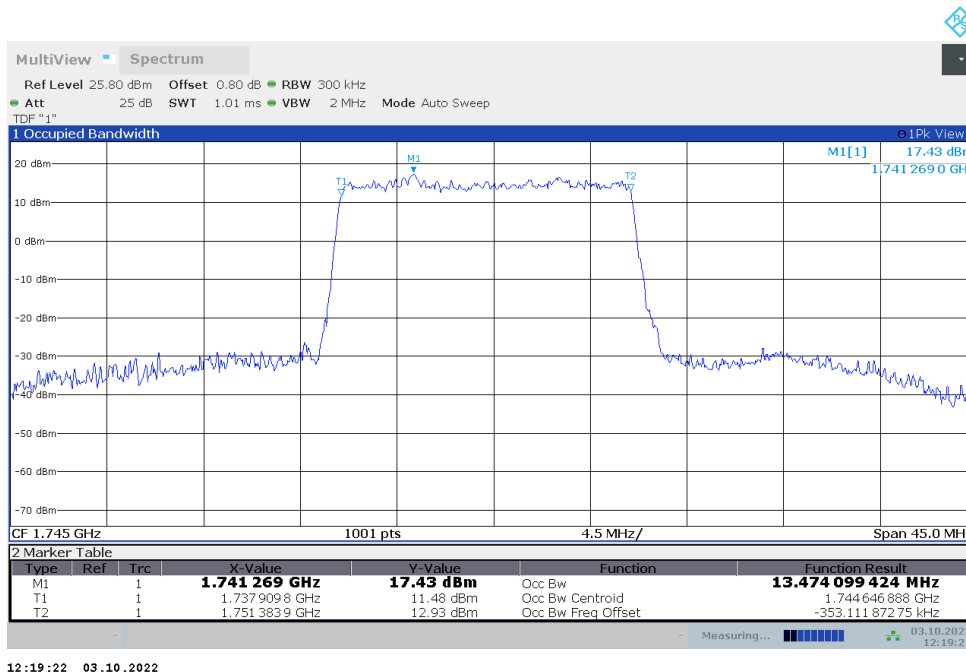
n66,10MHz Bandwidth,DFT-s-QPSK (99% BW)



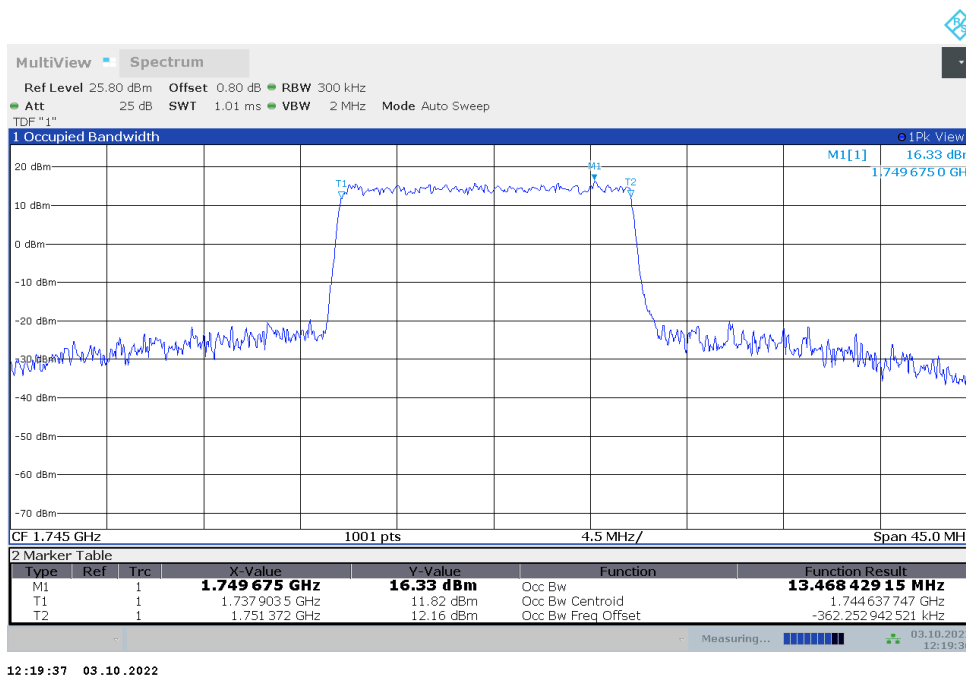
n66,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	13.474	13.468

n66,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



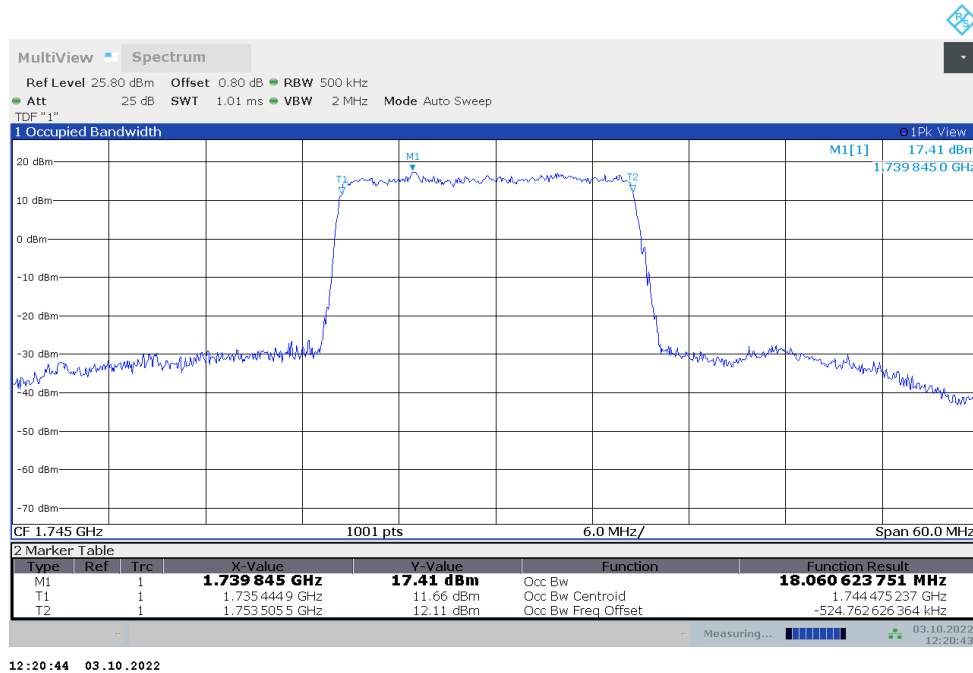
n66,15MHz Bandwidth,DFT-s-QPSK (99% BW)



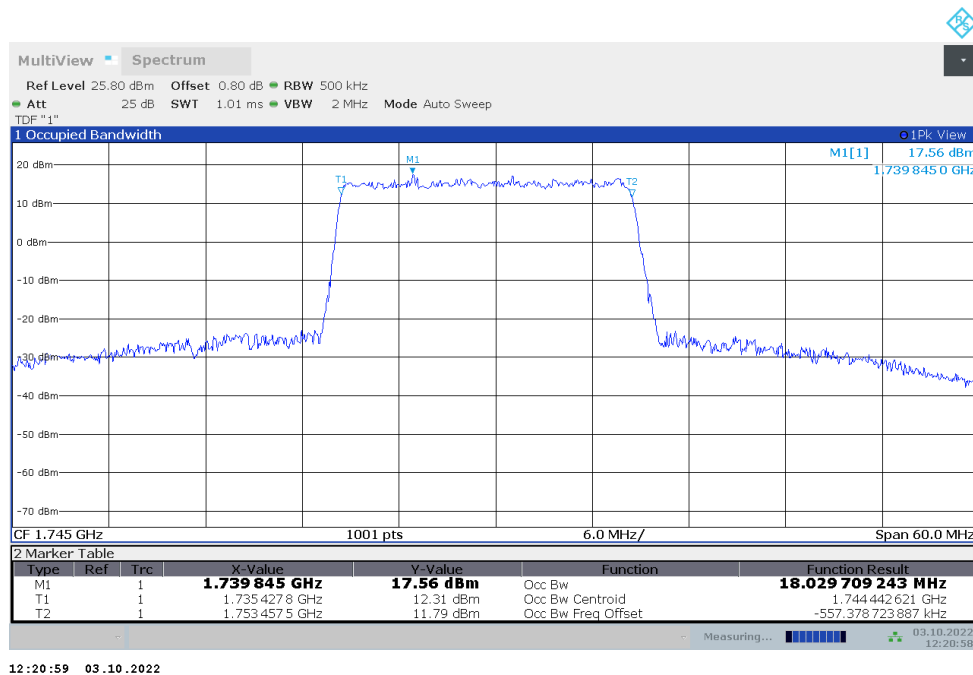
n66,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	18.061	18.030

n66,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



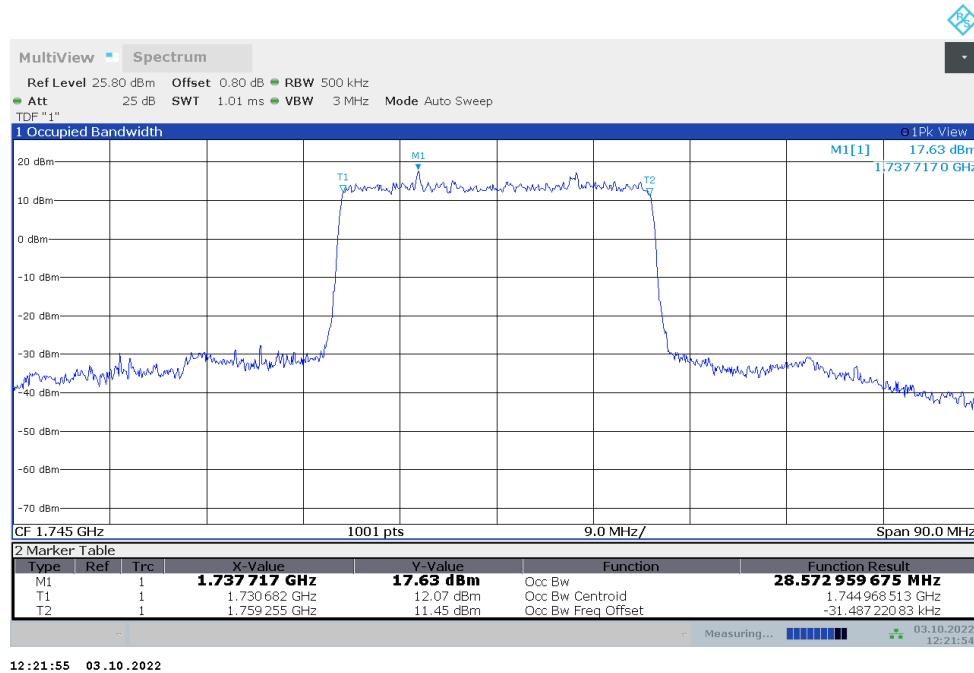
n66,20MHz Bandwidth,DFT-s-QPSK (99% BW)



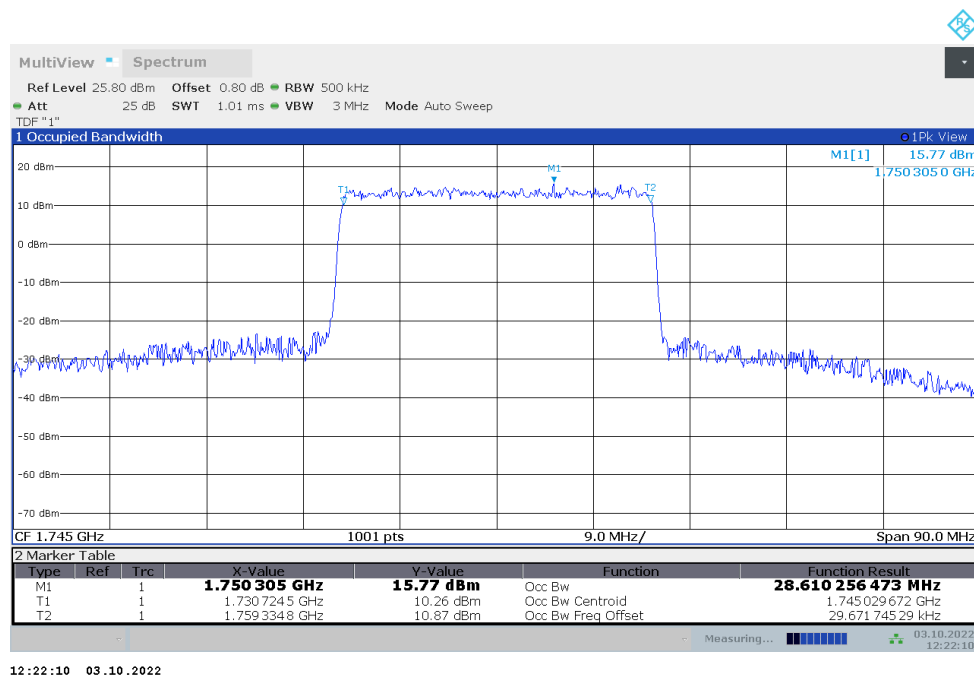
n66,30MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	28.573	28.610

n66,30MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



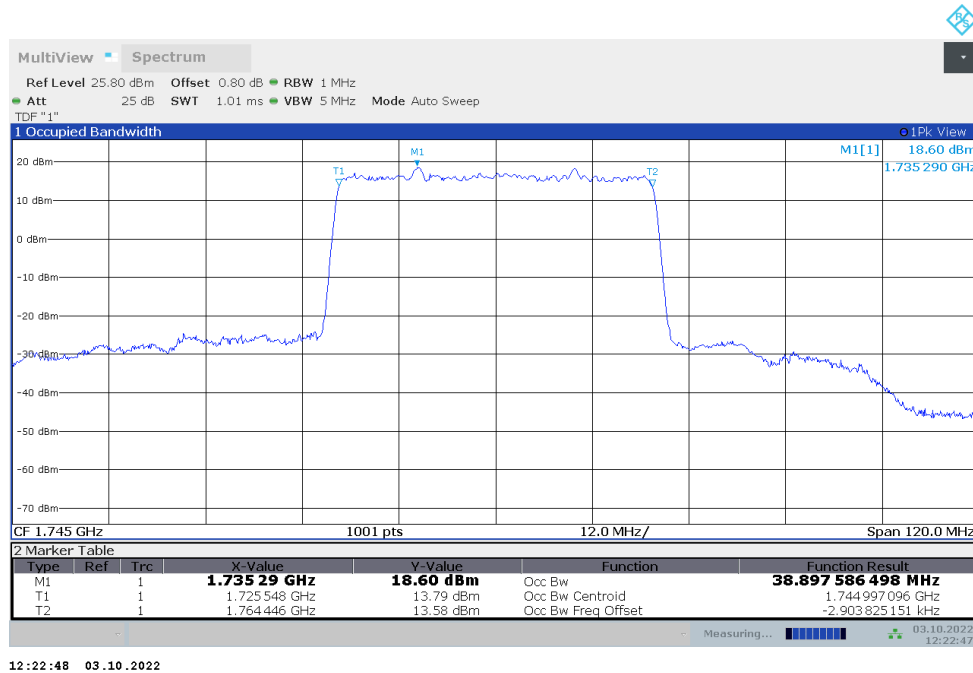
n66,30MHz Bandwidth,DFT-s-QPSK (99% BW)



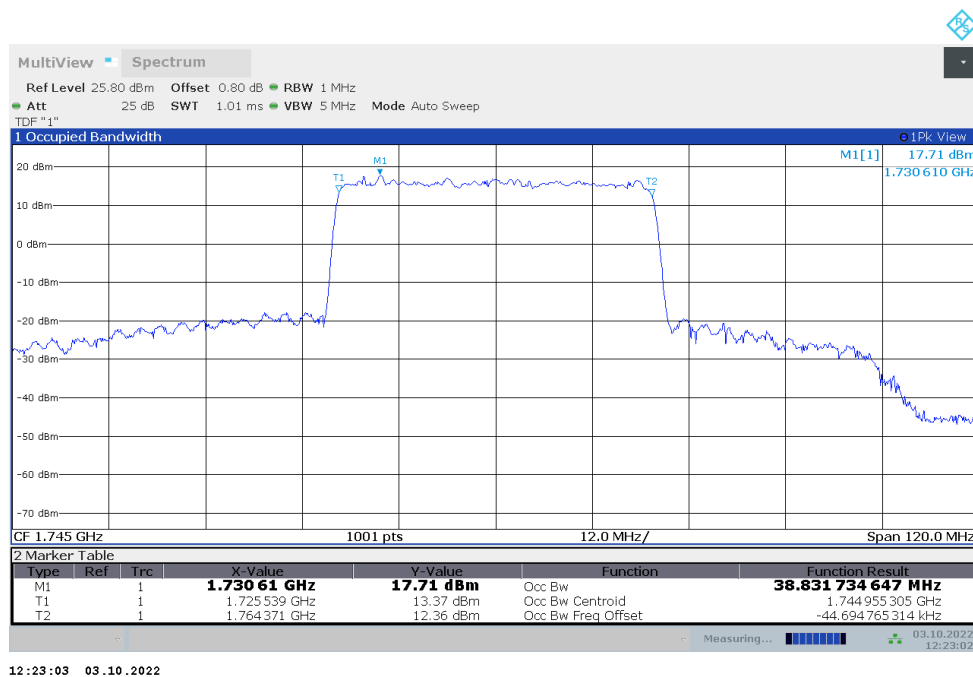
n66,40MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
1745	38.898	38.832

n66,40MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n66,40MHz Bandwidth,DFT-s-QPSK (99% BW)

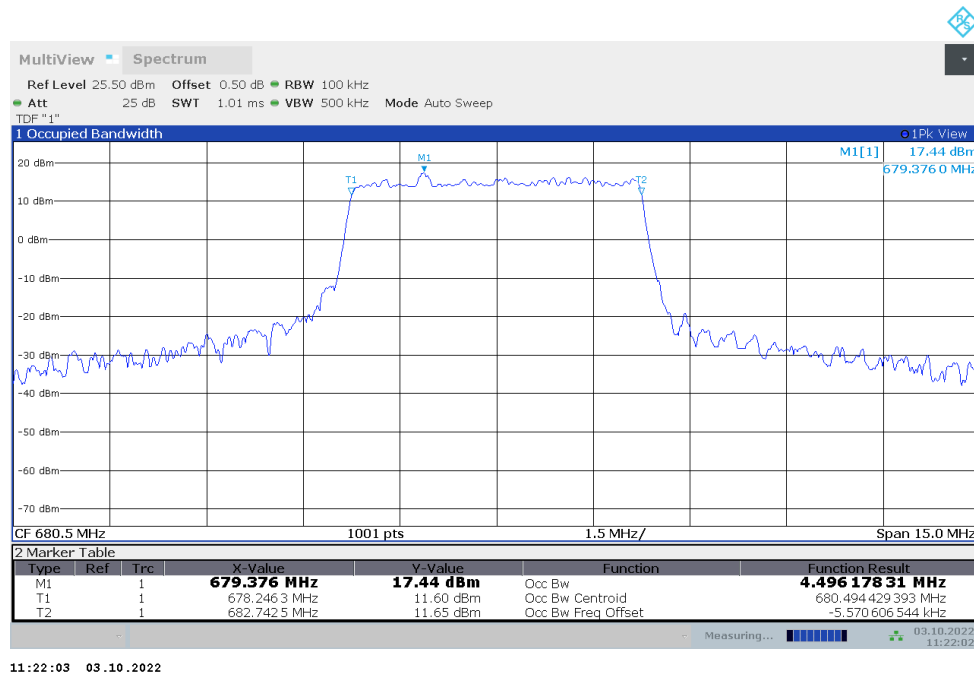


n71

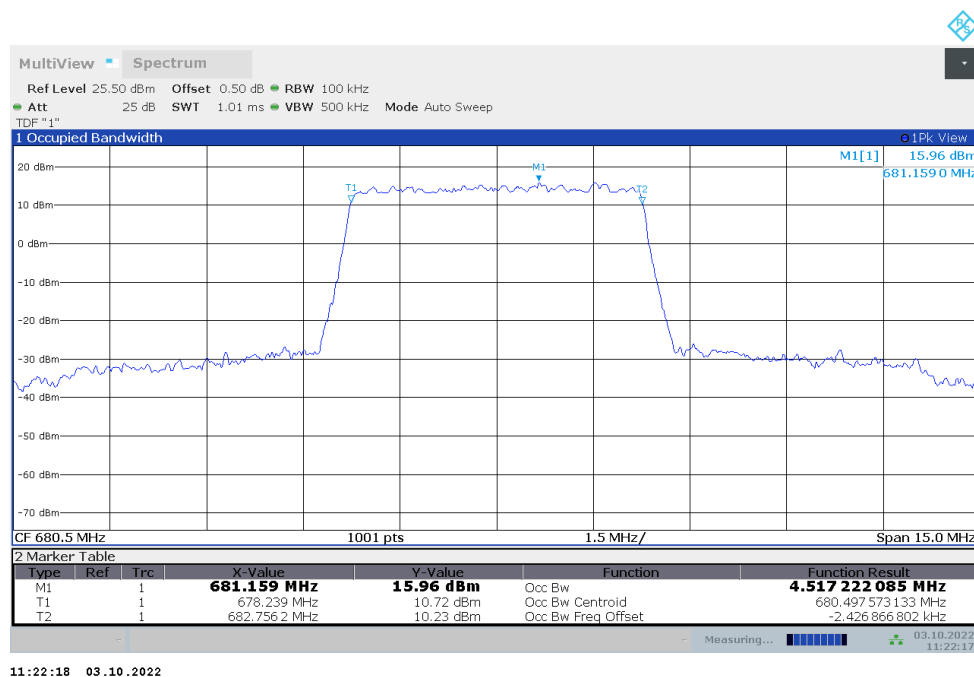
n71,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	4.496	4.517

n71,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



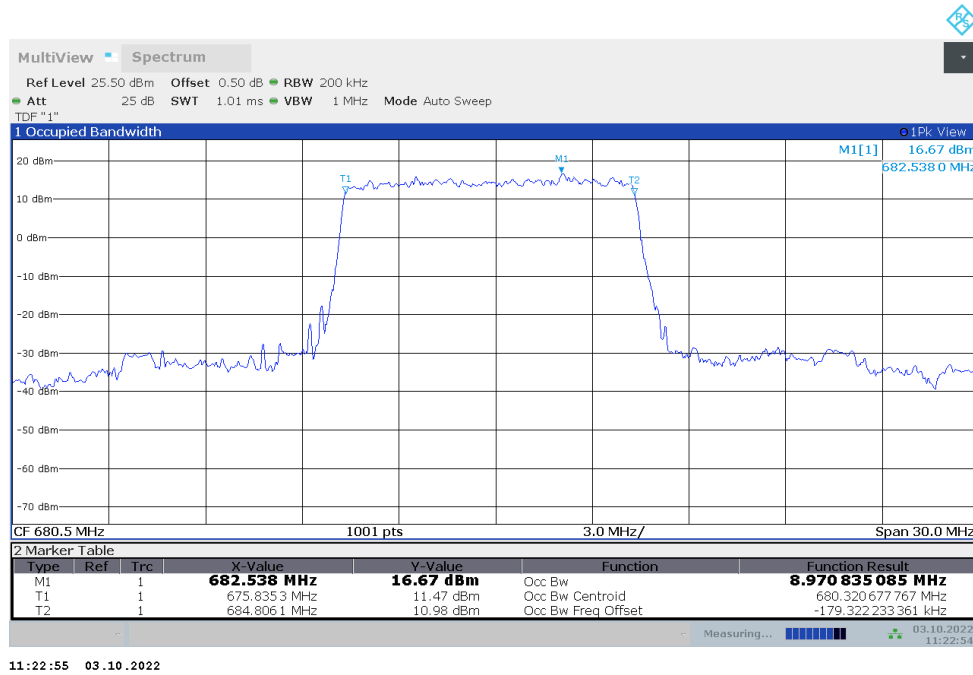
n71,5MHz Bandwidth,DFT-s-QPSK (99% BW)



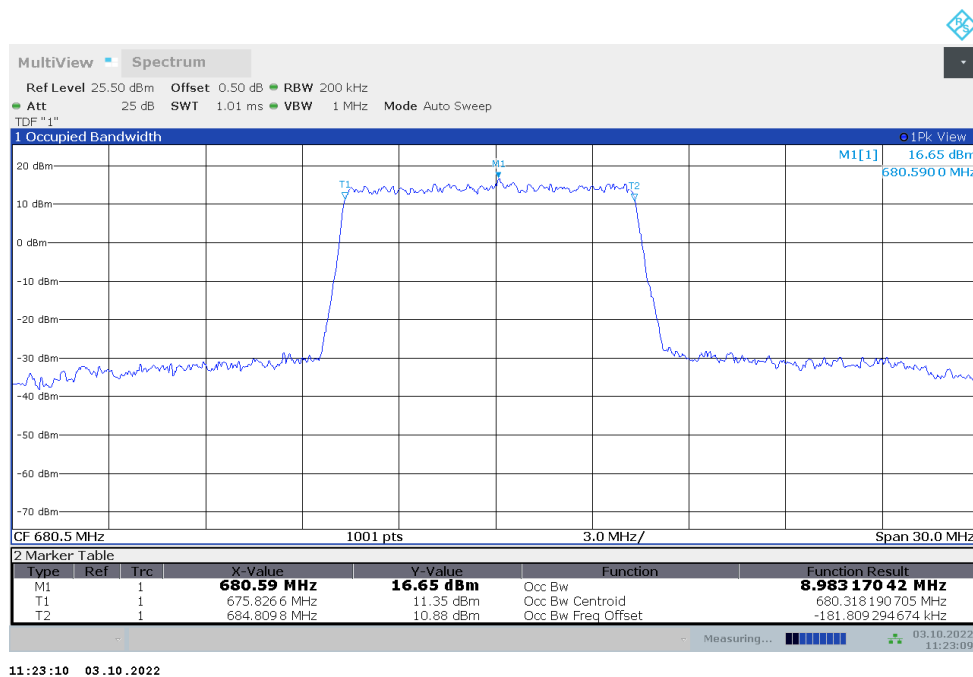
n71,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	8.971	8.983

n71,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



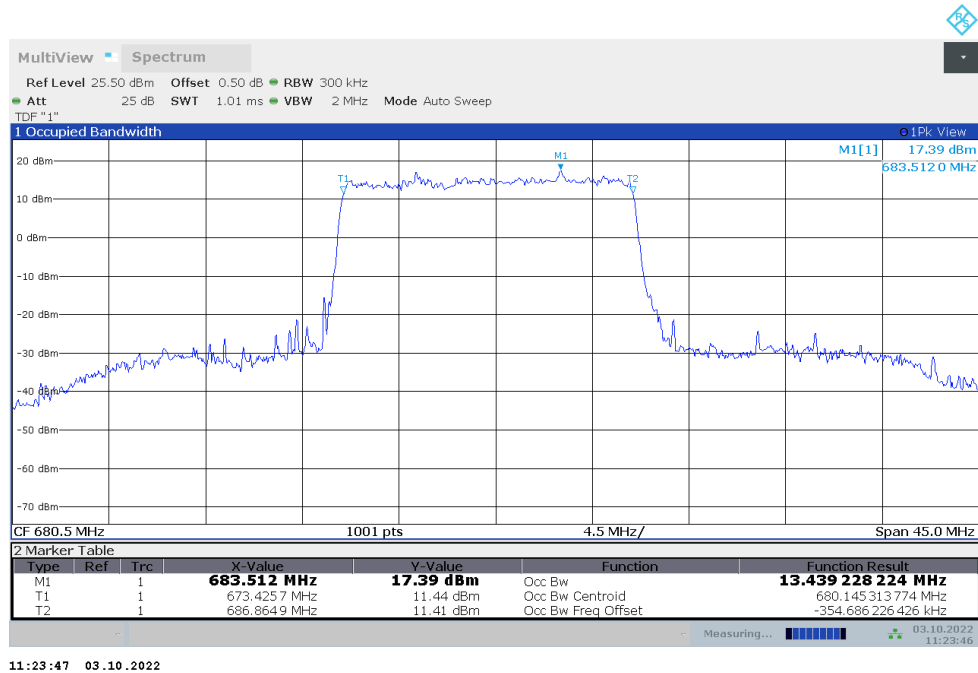
n71,10MHz Bandwidth,DFT-s-QPSK (99% BW)



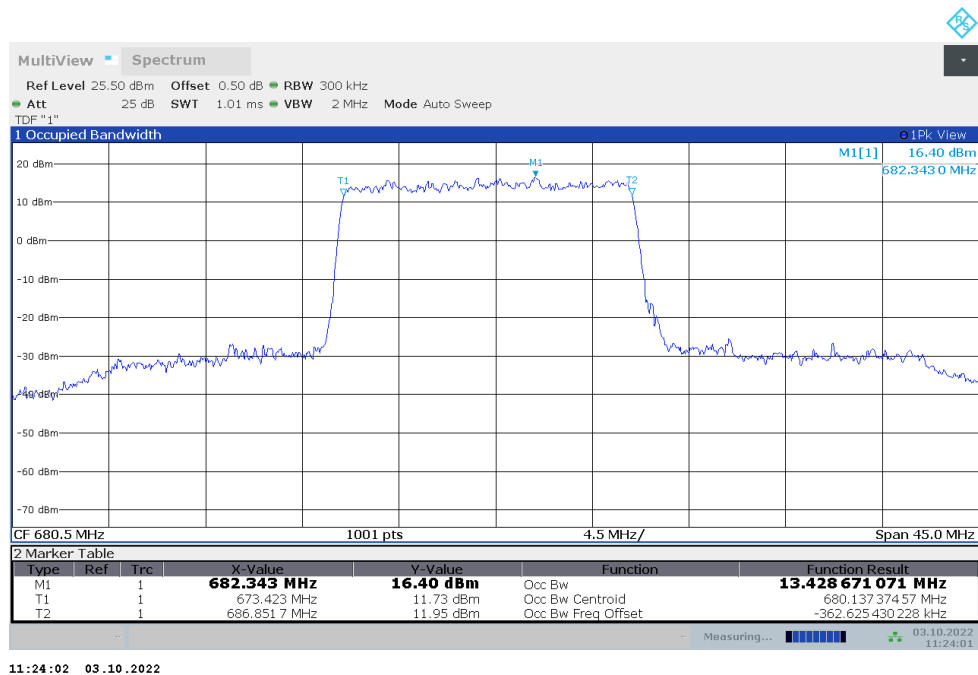
n71,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	13.439	13.429

n71,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



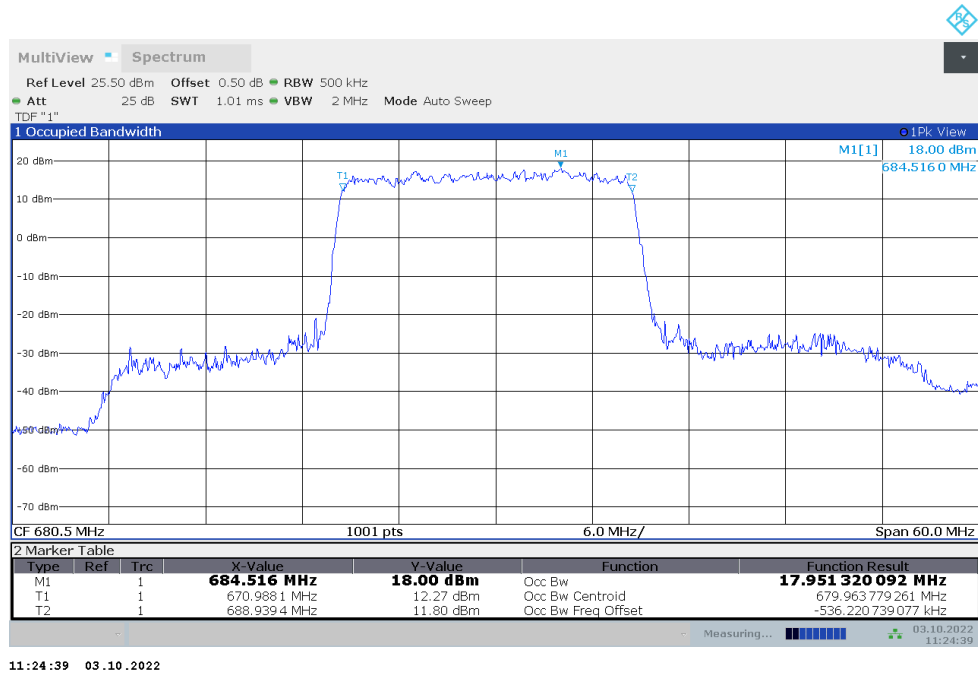
n71,15MHz Bandwidth,DFT-s-QPSK (99% BW)



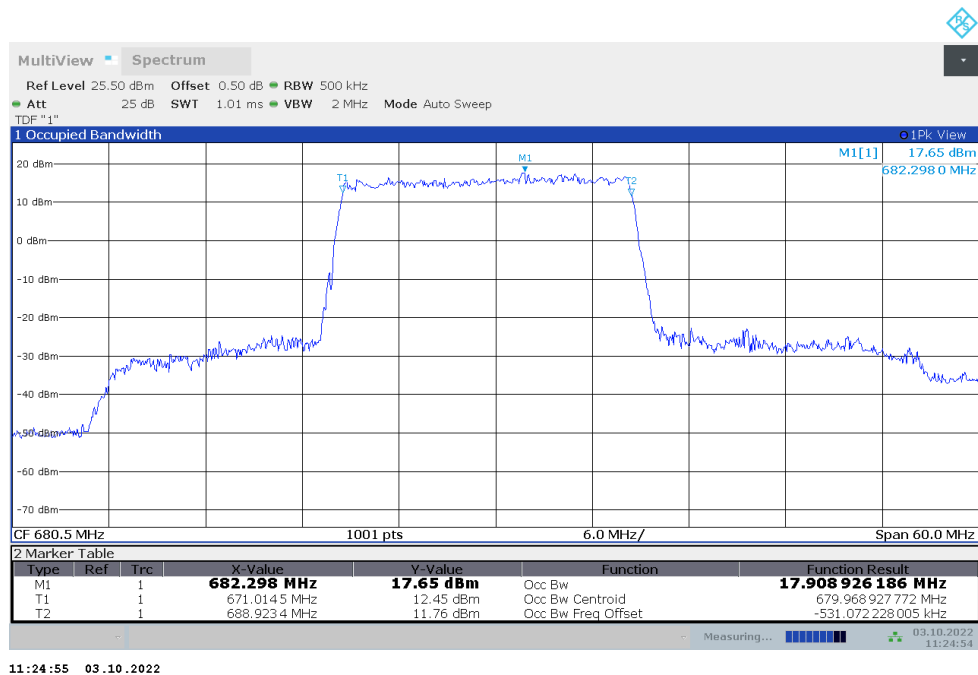
n71,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
680.5	17.951	17.909

n71,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n71,20MHz Bandwidth,DFT-s-QPSK (99% BW)

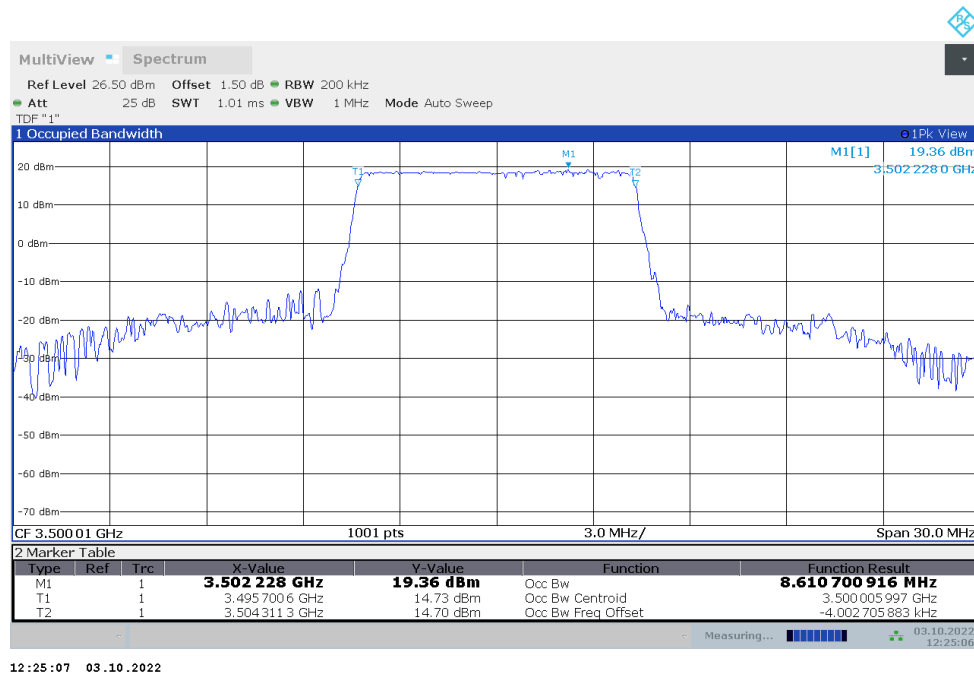


n77L

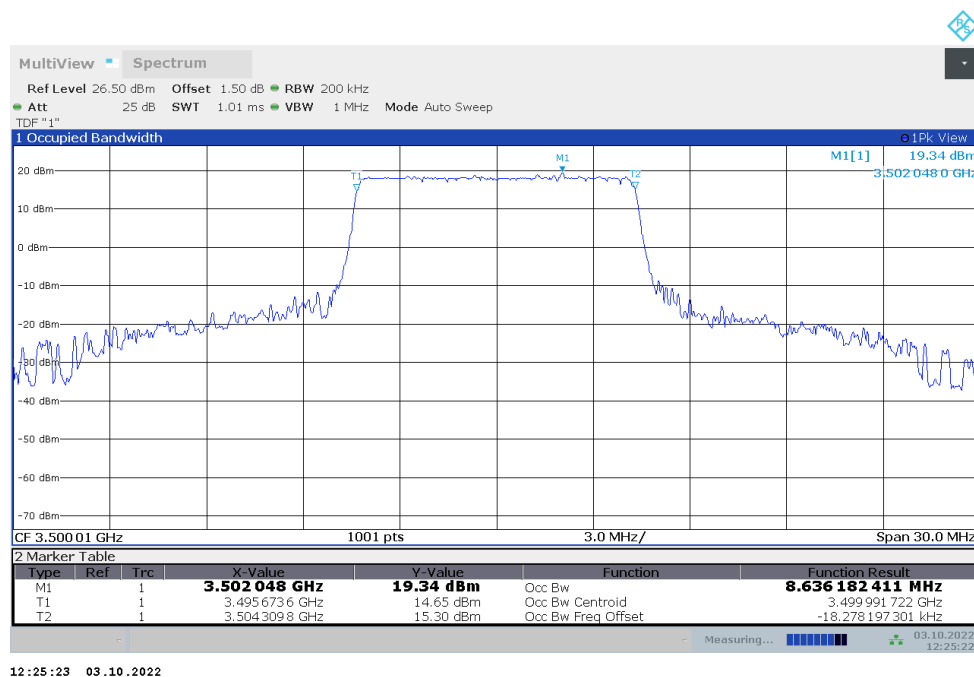
n77L,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	8.611	8.636

n77L,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



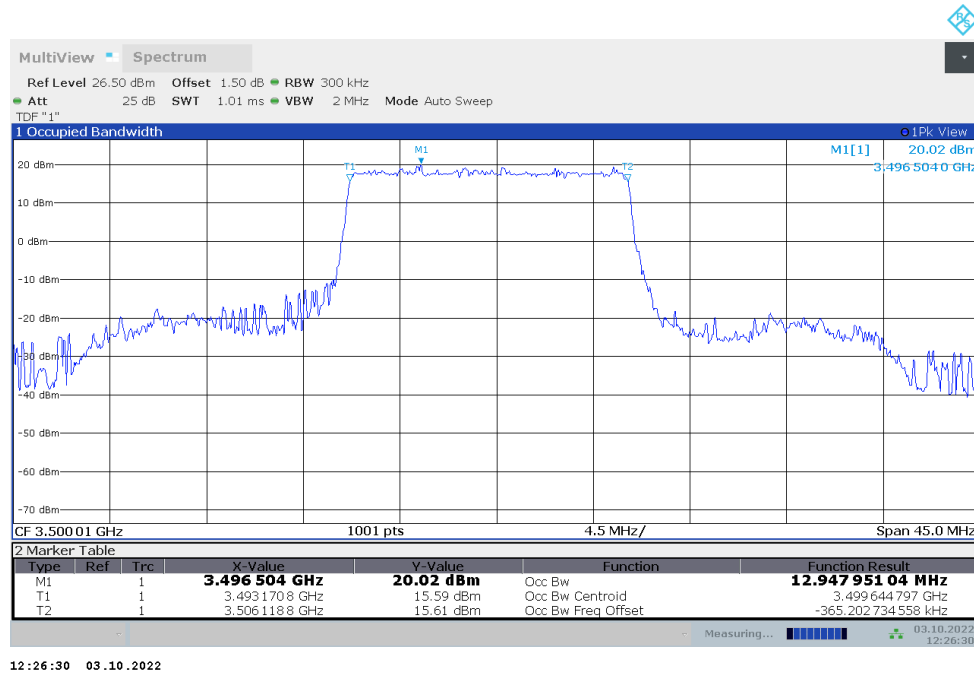
n77L,10MHz Bandwidth,DFT-s-QPSK (99% BW)



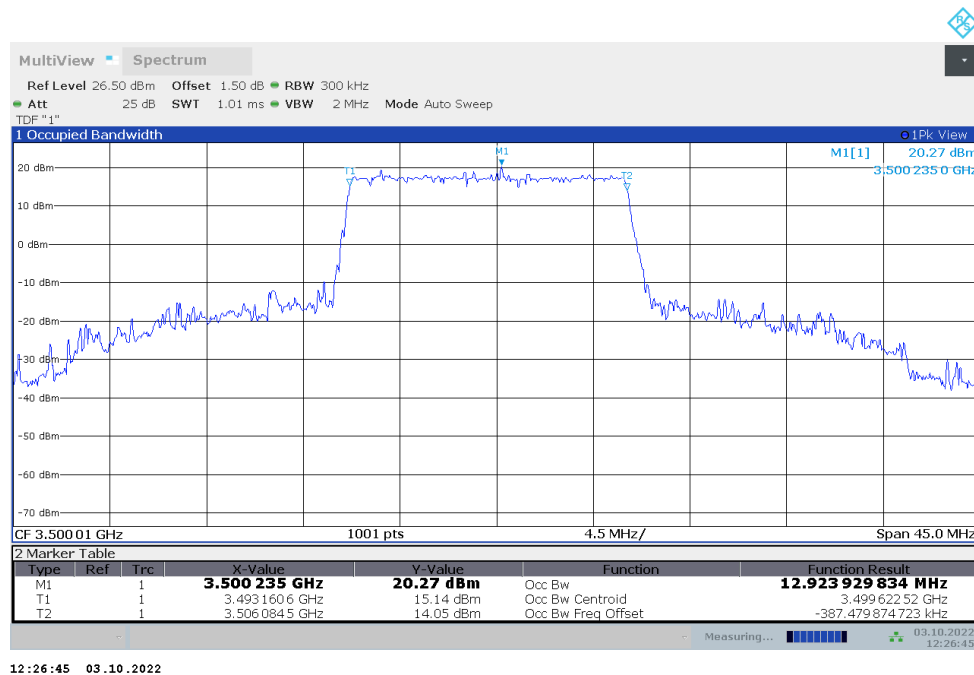
n77L,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	12.948	12.924

n77L,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



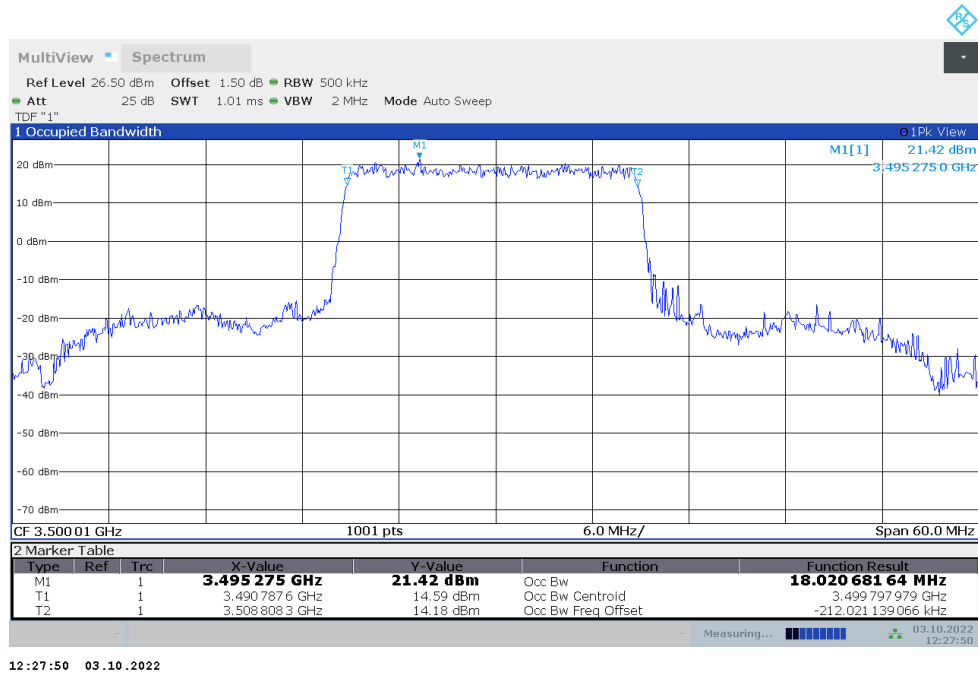
n77L,15MHz Bandwidth,DFT-s-QPSK (99% BW)



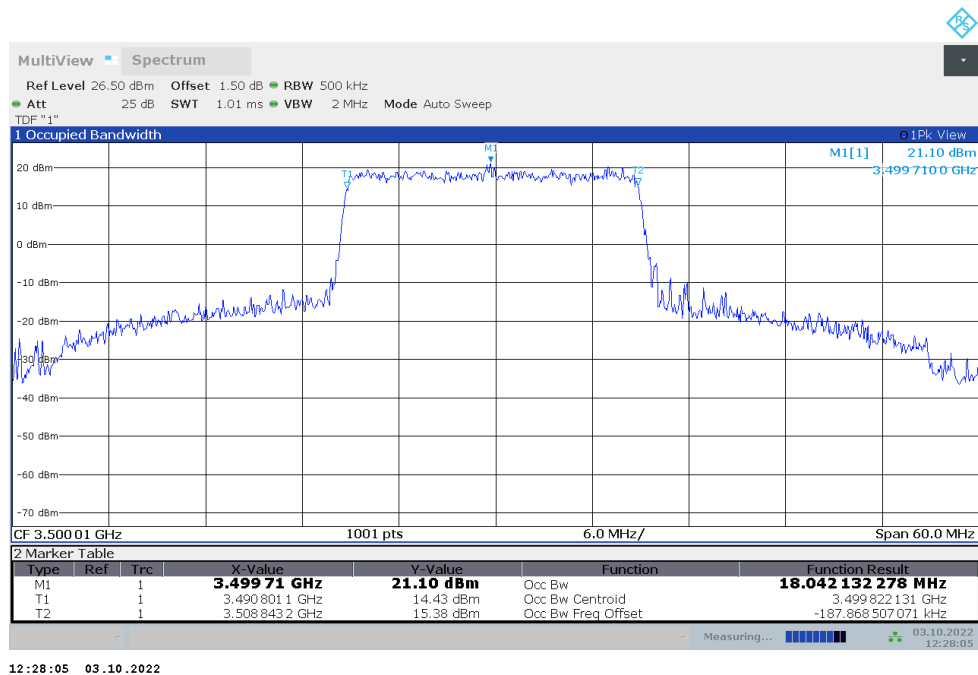
n77L,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	18.021	18.042

n77L,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



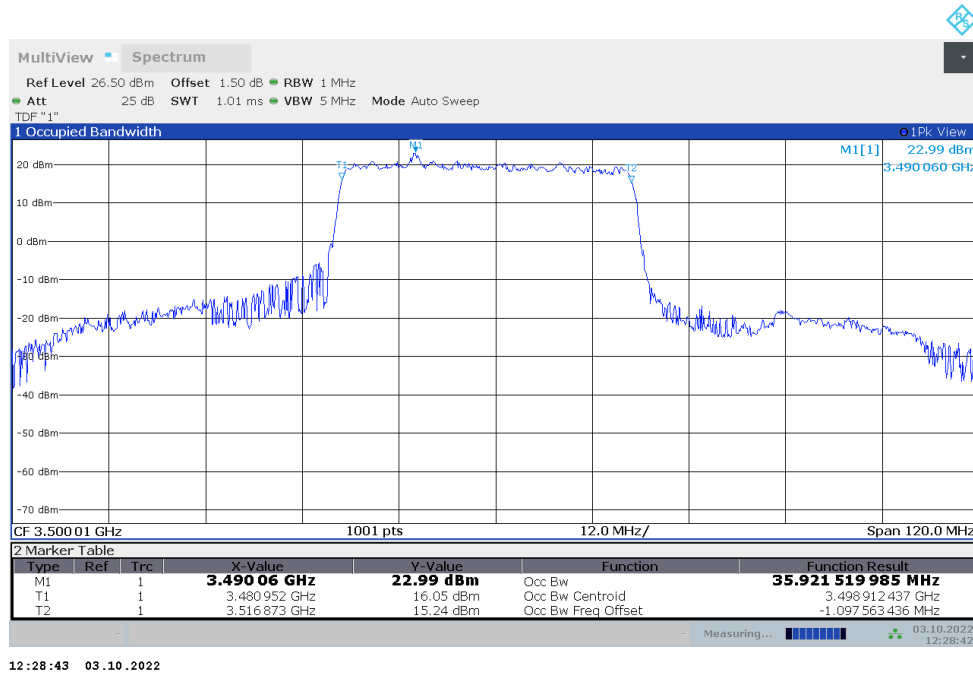
n77L,20MHz Bandwidth,DFT-s-QPSK (99% BW)



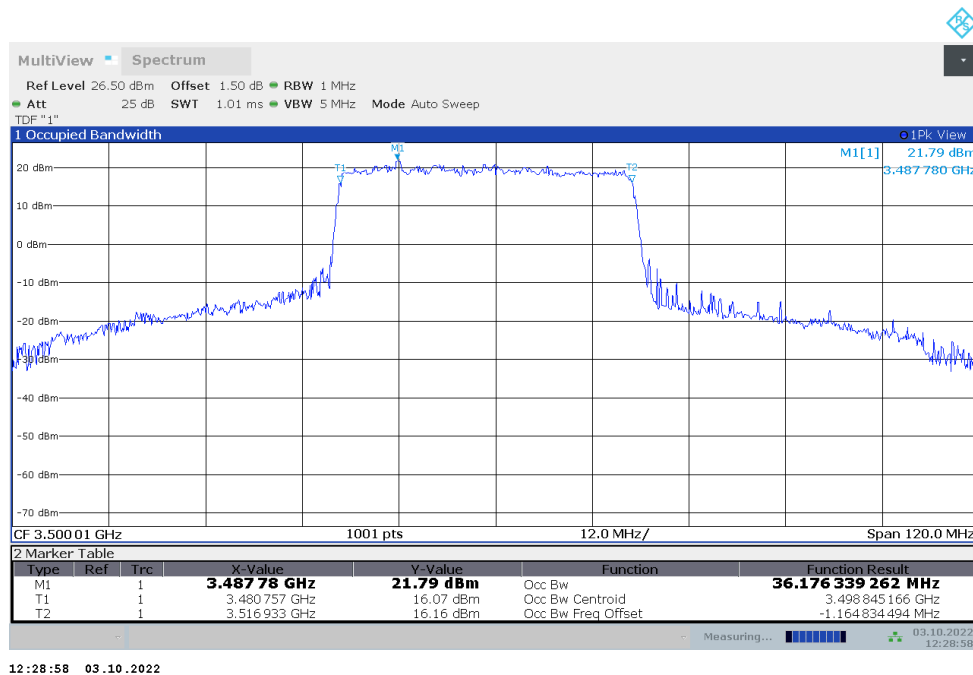
n77L,40MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	35.922	36.176

n77L,40MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



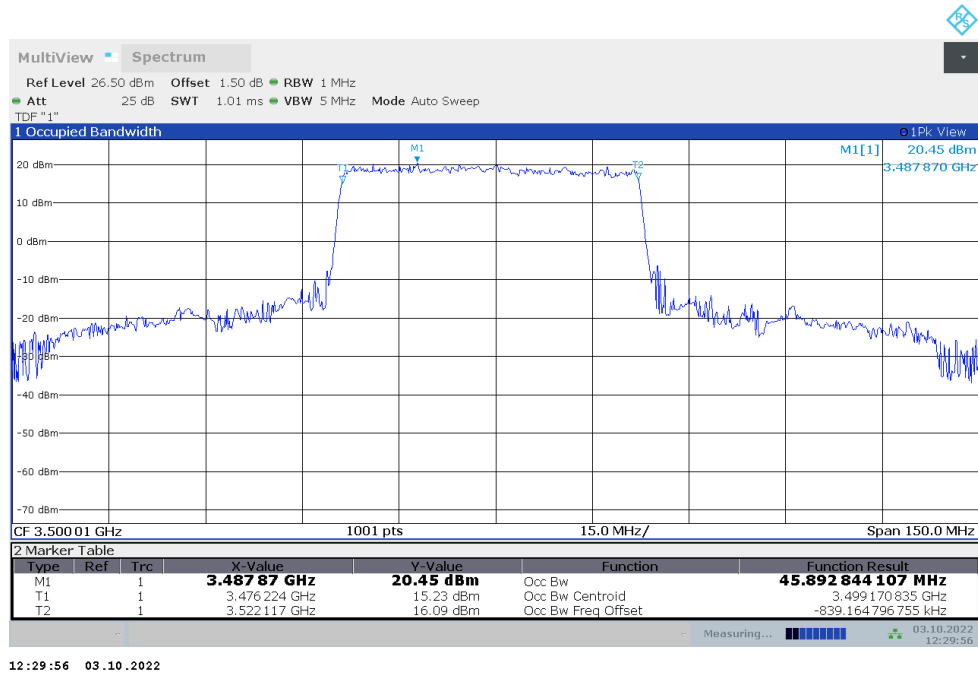
n77L,40MHz Bandwidth,DFT-s-QPSK (99% BW)



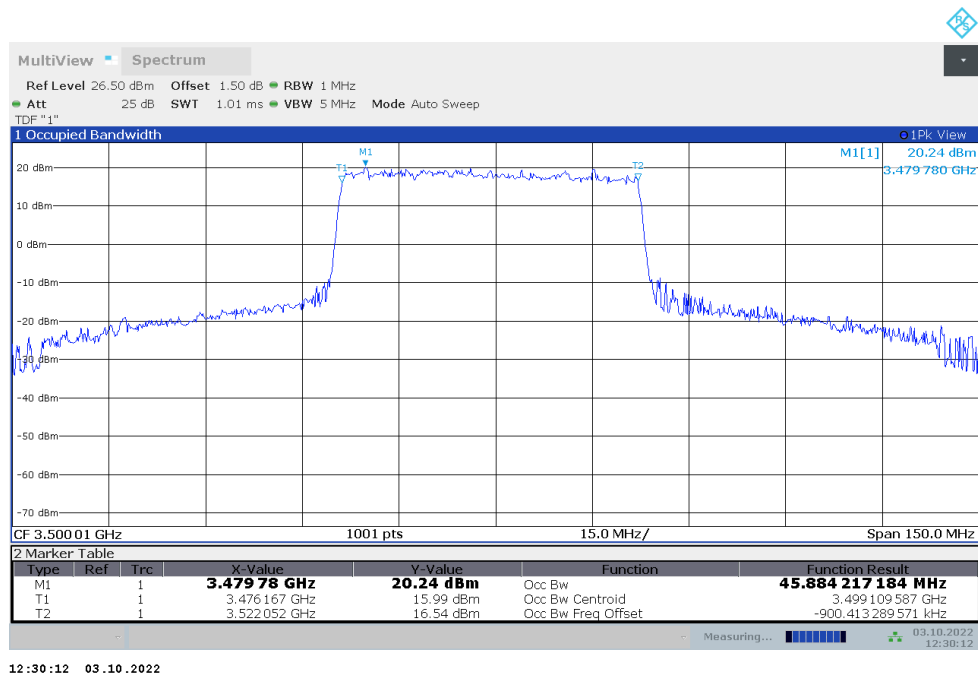
n77L,50MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	45.893	45.884

n77L,50MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



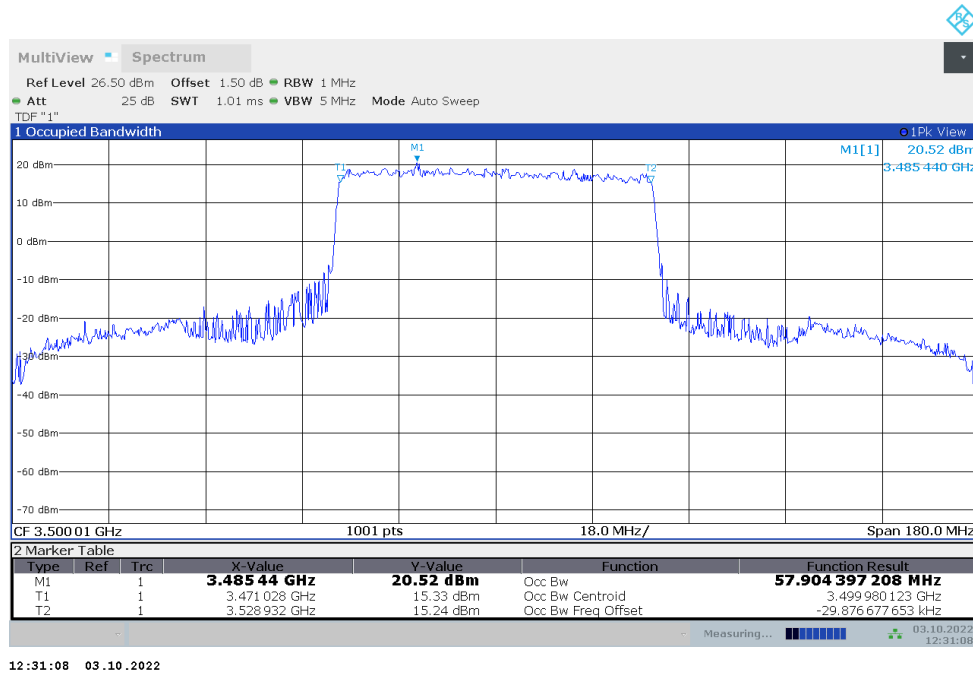
n77L,50MHz Bandwidth,DFT-s-QPSK (99% BW)



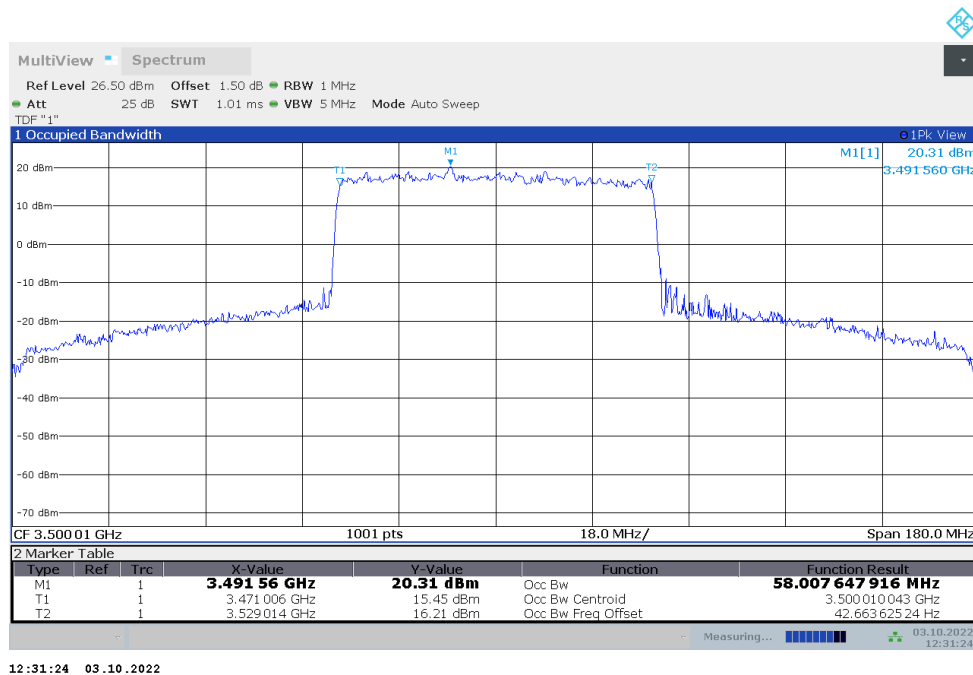
n77L,60MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	57.904	58.008

n77L,60MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



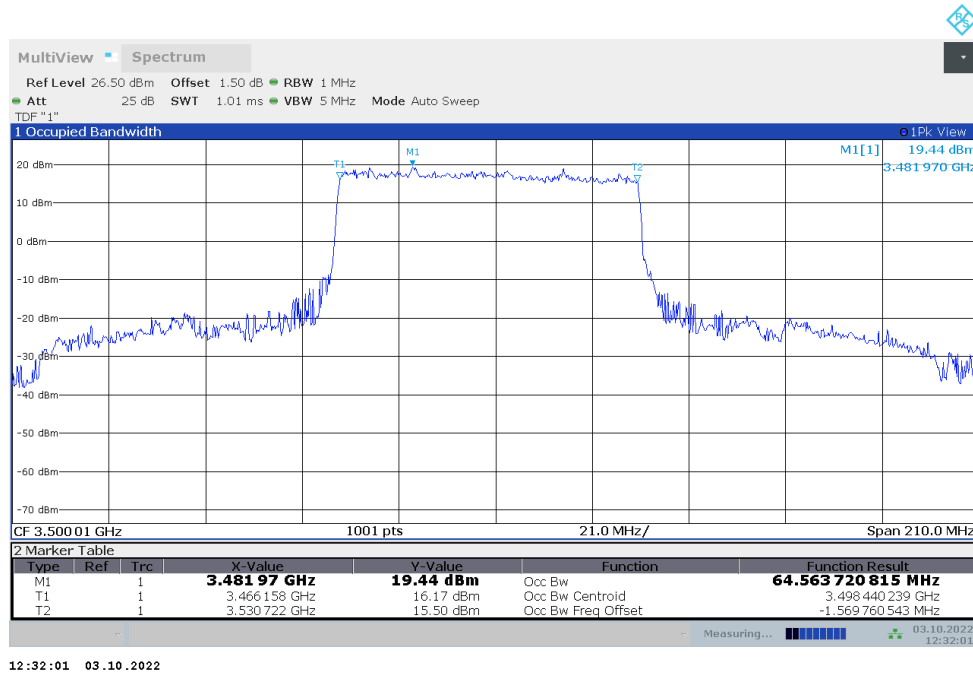
n77L,60MHz Bandwidth,DFT-s-QPSK (99% BW)



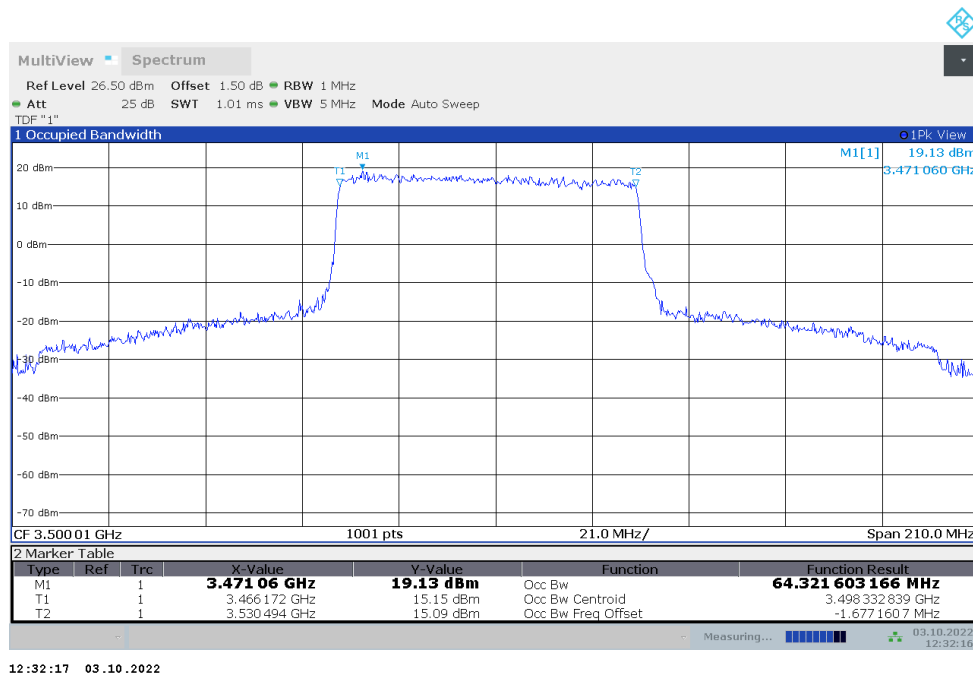
n77L,70MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	64.564	64.322

n77L,70MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



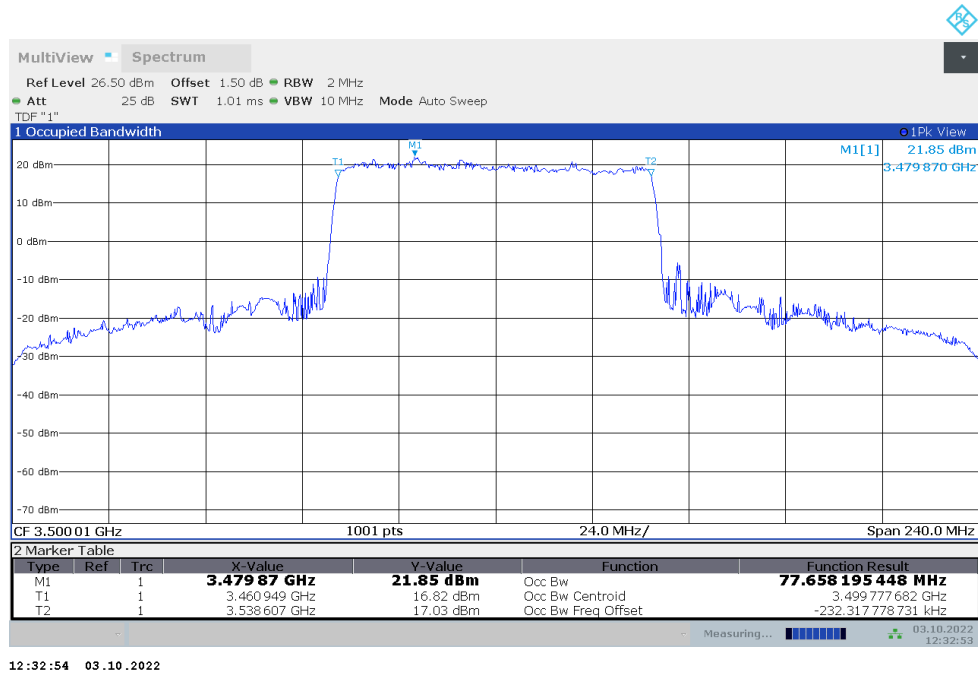
n77L,70MHz Bandwidth,DFT-s-QPSK (99% BW)



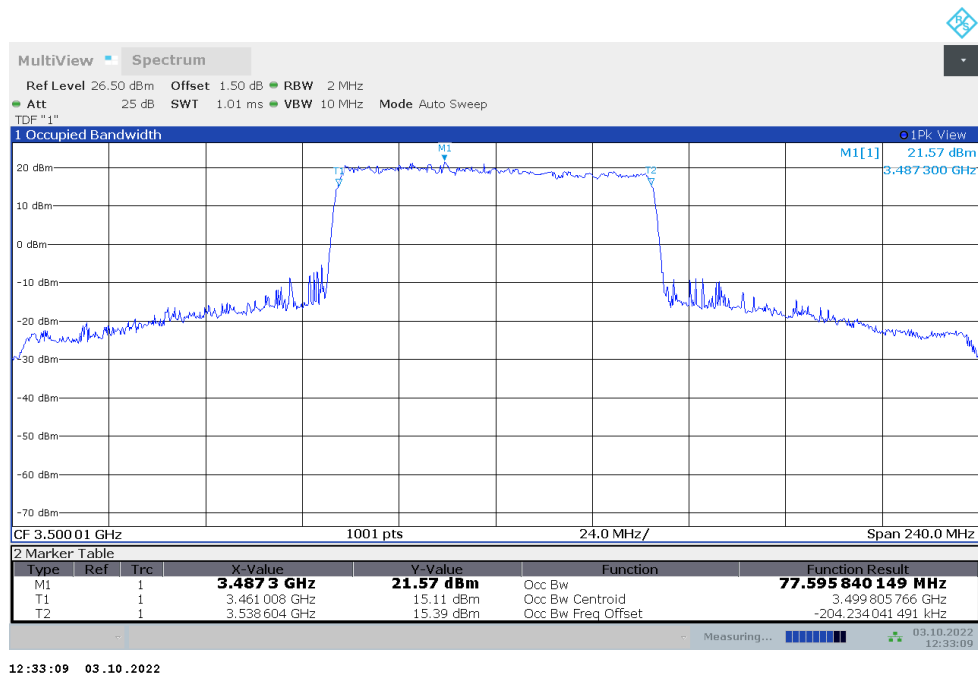
n77L,80MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	77.658	77.596

n77L,80MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



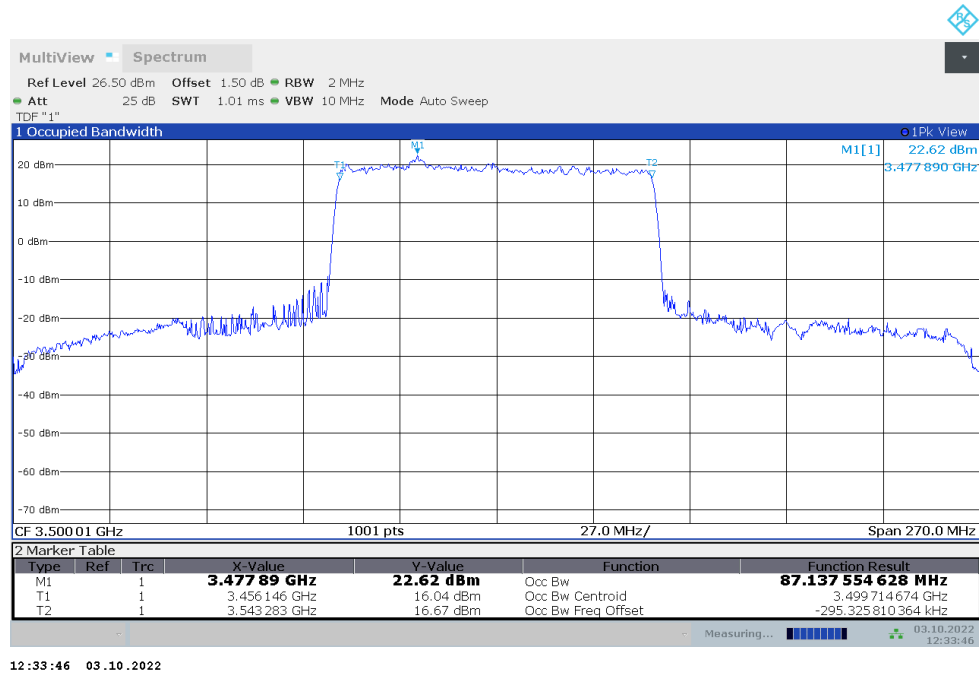
n77L,80MHz Bandwidth,DFT-s-QPSK (99% BW)



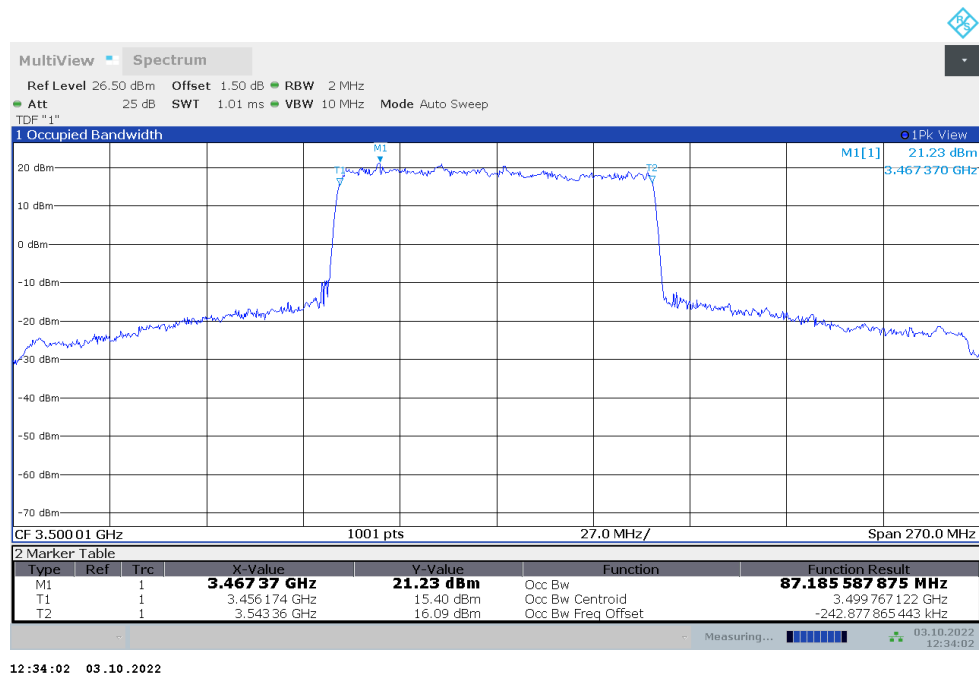
n77L,90MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3500.01	87.138	87.186

n77L,90MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n77L,90MHz Bandwidth,DFT-s-QPSK (99% BW)

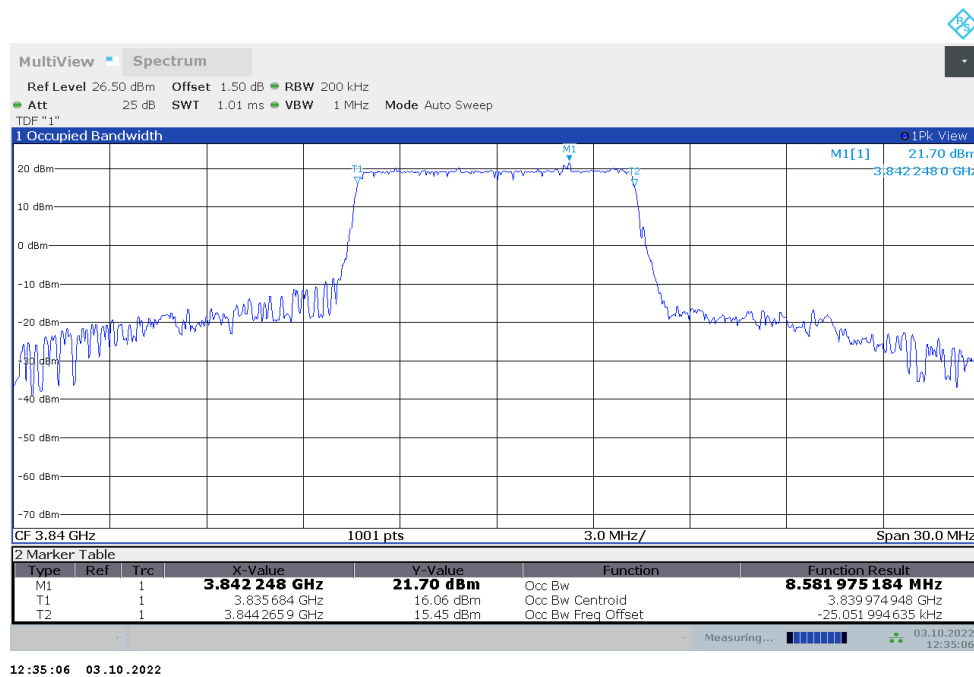


n77H

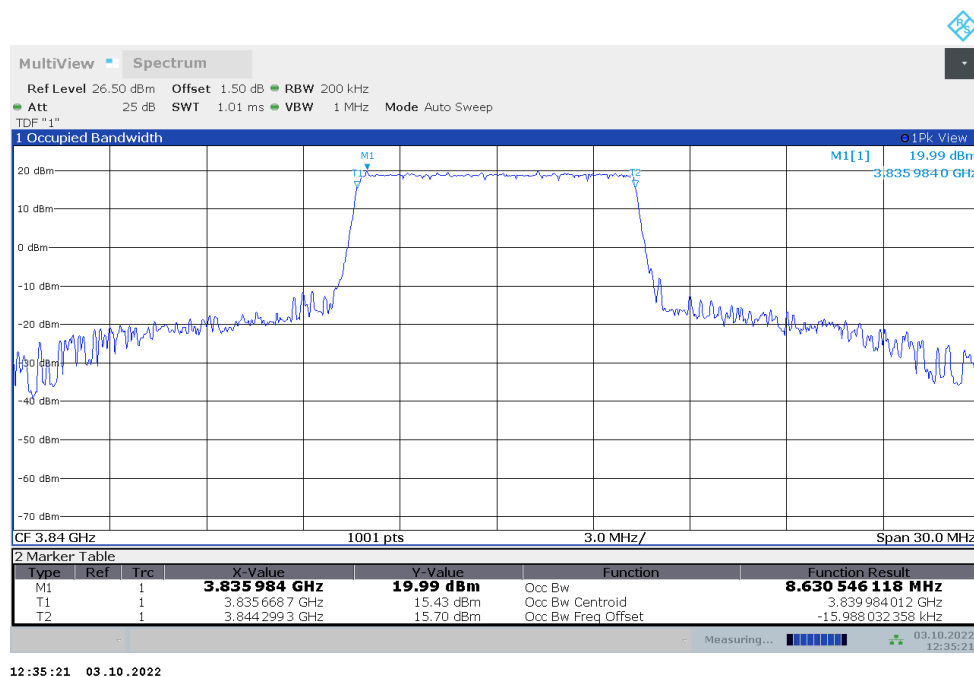
n77H,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	8.582	8.631

n77H,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



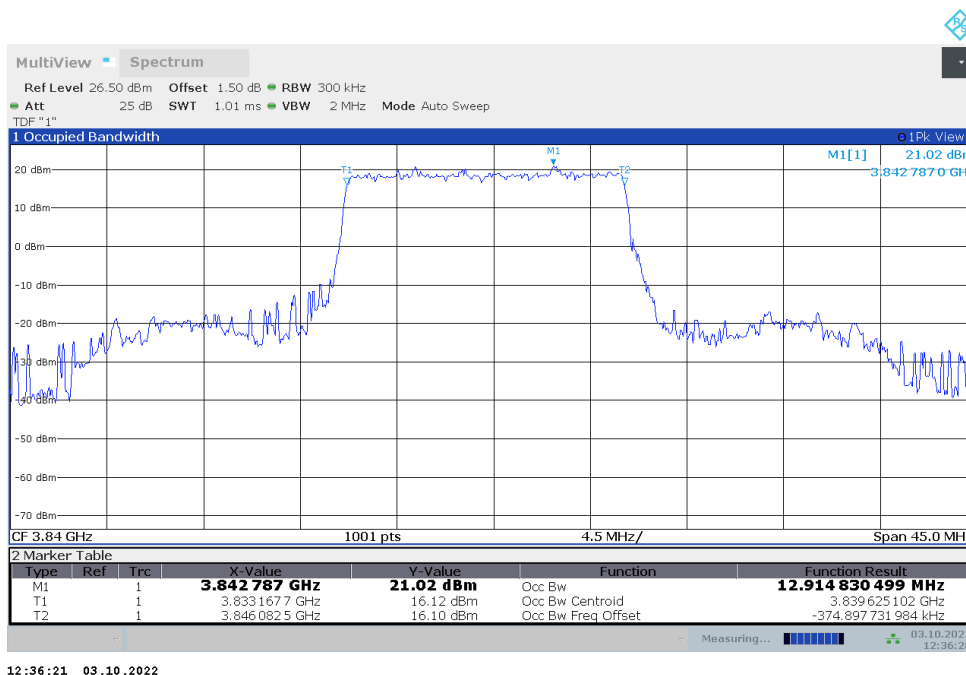
n77H,10MHz Bandwidth,DFT-s-QPSK (99% BW)



n77H,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	12.915	12.931

n77H,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n77H,15MHz Bandwidth,DFT-s-QPSK (99% BW)

