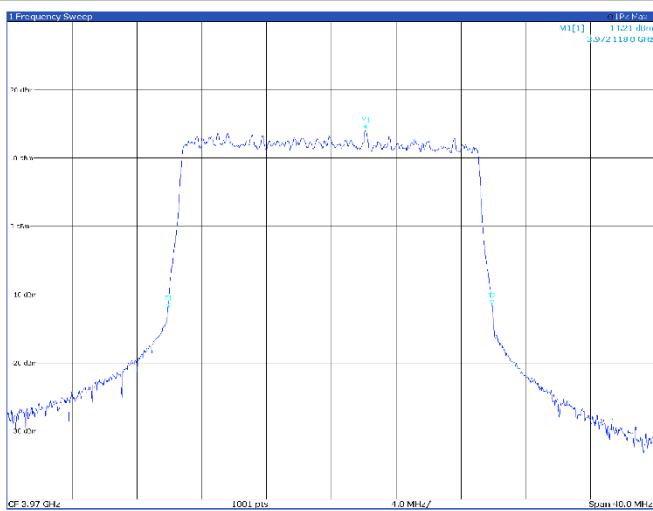
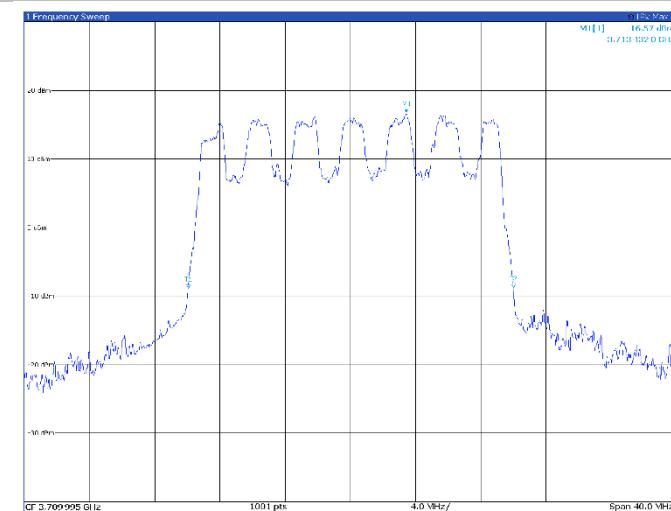
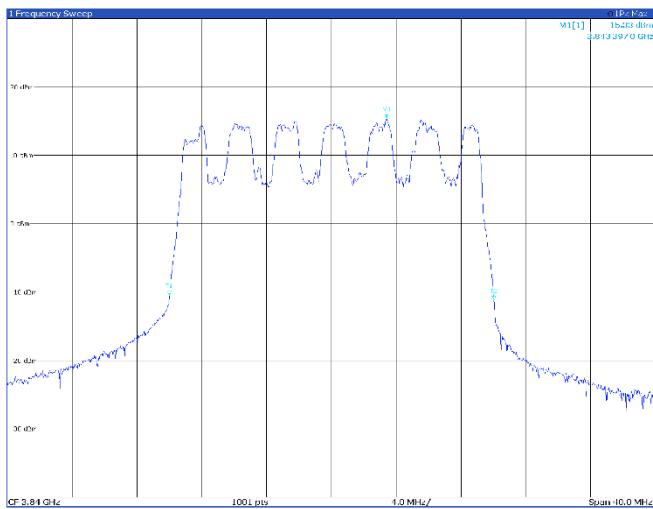
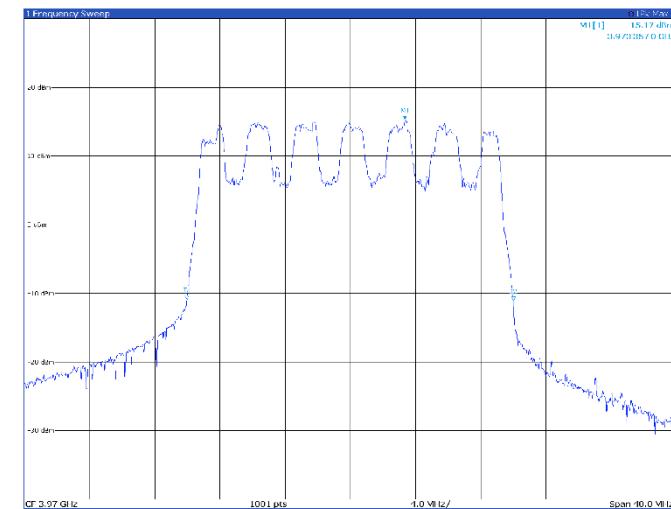
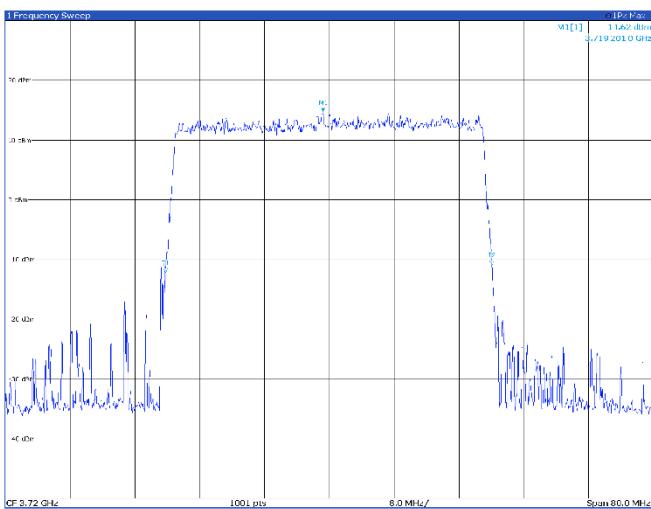
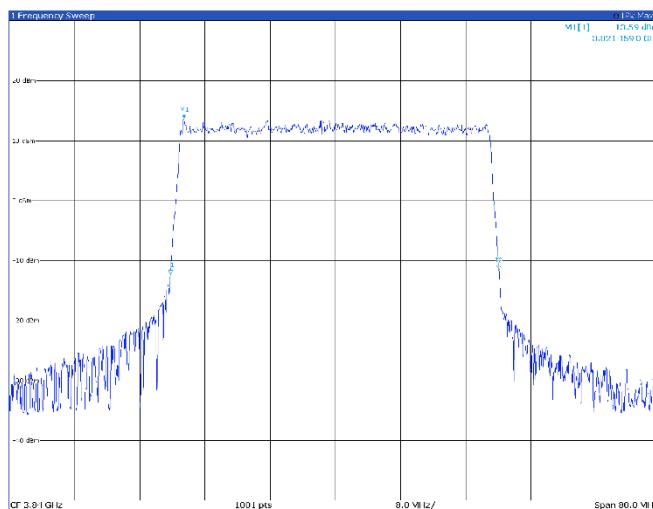
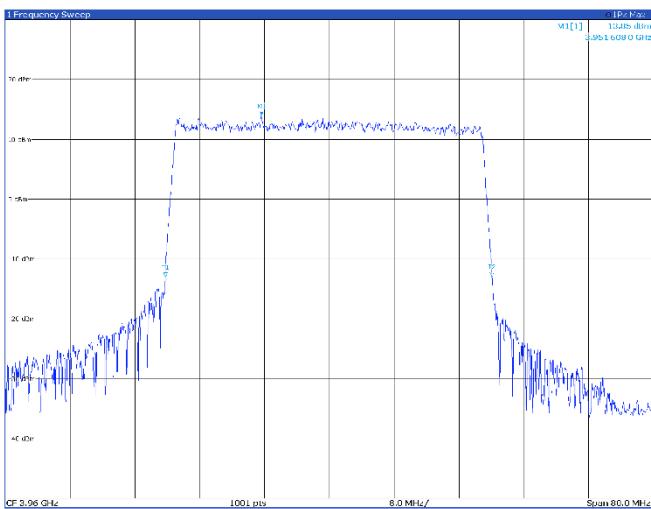
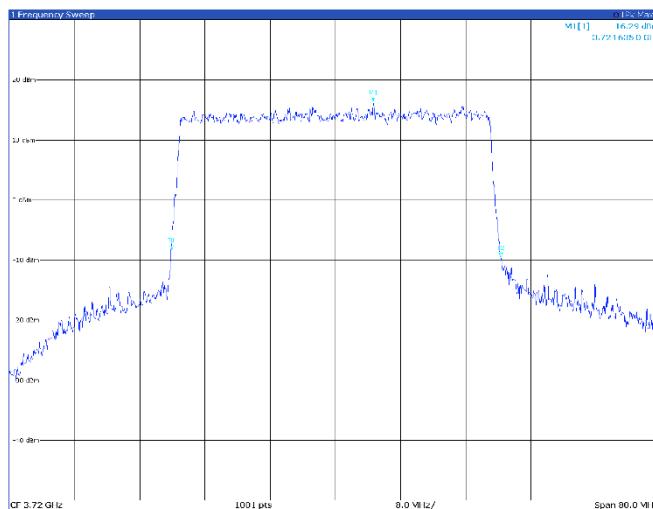
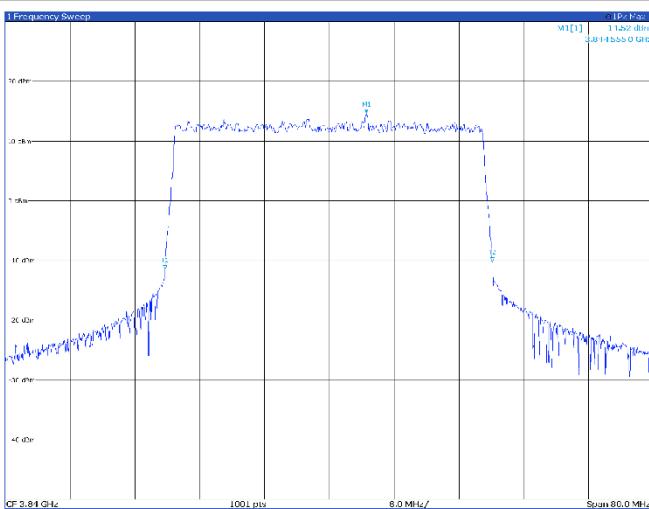


TM3p1a, 20 MHz, high channel

TM3p3, 20 MHz, low channel

TM3p3, 20 MHz, mid channel

TM3p3, 20 MHz, high channel


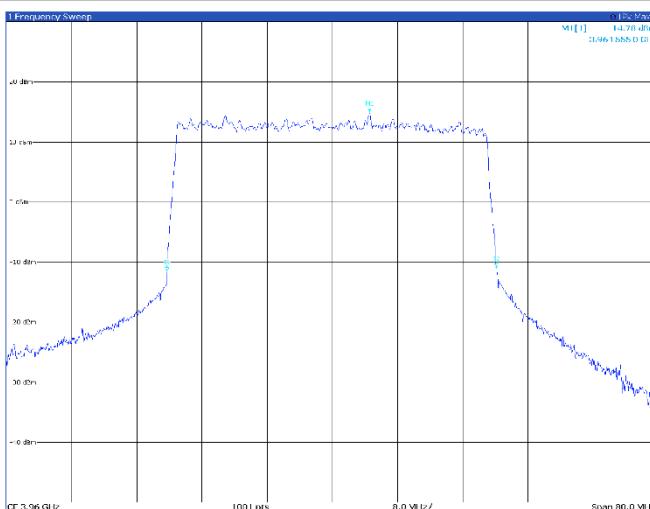
Band n77 – 26 dB Occupied Bandwidth Antenna port 1

40 MHz

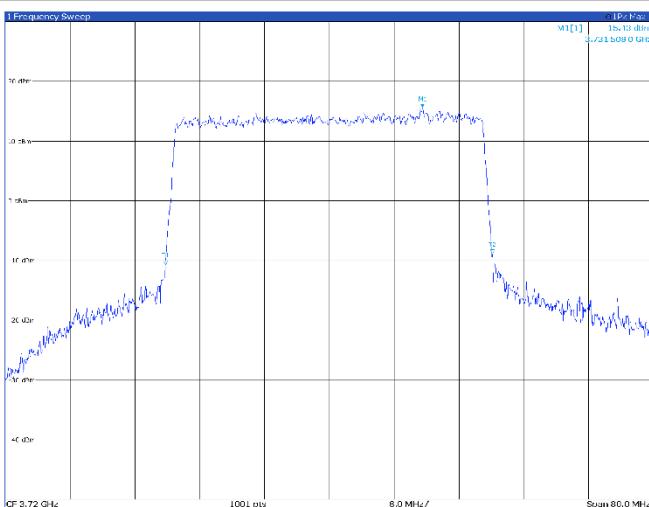
TM1.1, 40 MHz, low channel

TM1.1, 40 MHz, mid channel

TM1.1, 40 MHz, high channel

TM3p1, 40 MHz, low channel


TM3p1, 40 MHz, mid channel


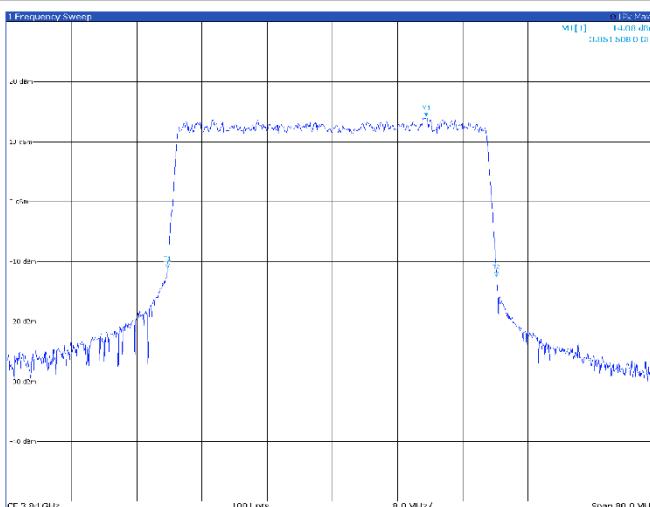
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.844555 GHz	14.52 dBm	rbP	rbP, Down BW	40.44 MHz
M2	1	3.844555 GHz	-11.58 dBm	rbP	rbP, Down BW	40.44 MHz
M3	1	3.844555 GHz	-10.55 dBm	rbP	rbP, Down BW	40.44 MHz

TM3p1, 40 MHz, high channel


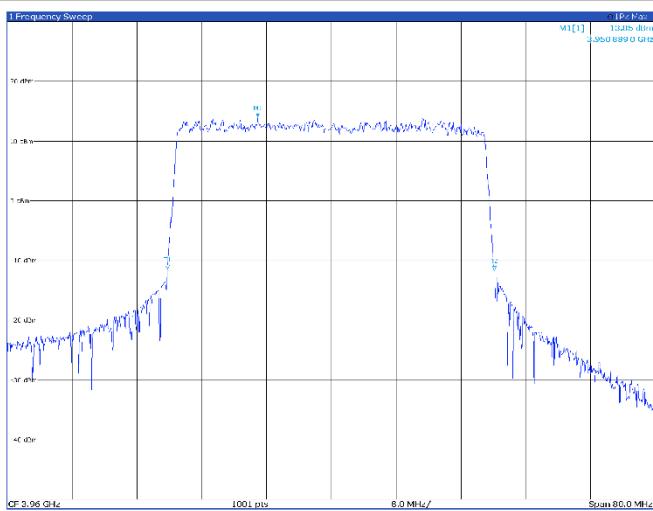
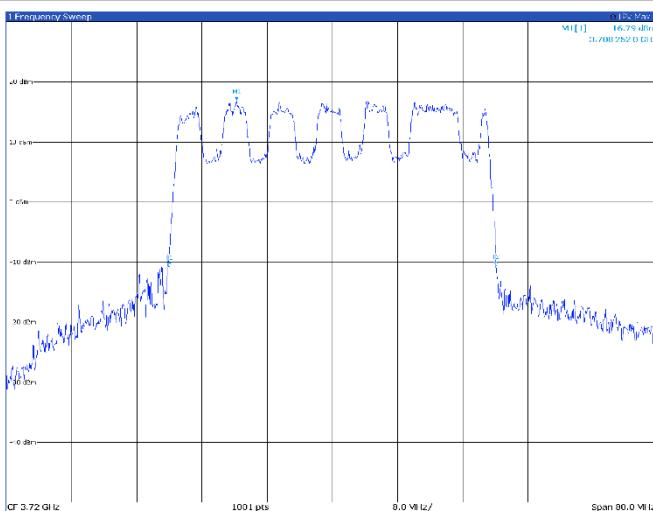
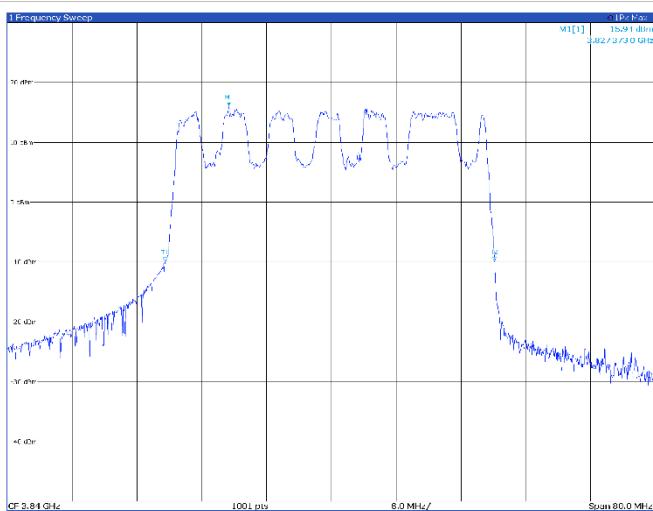
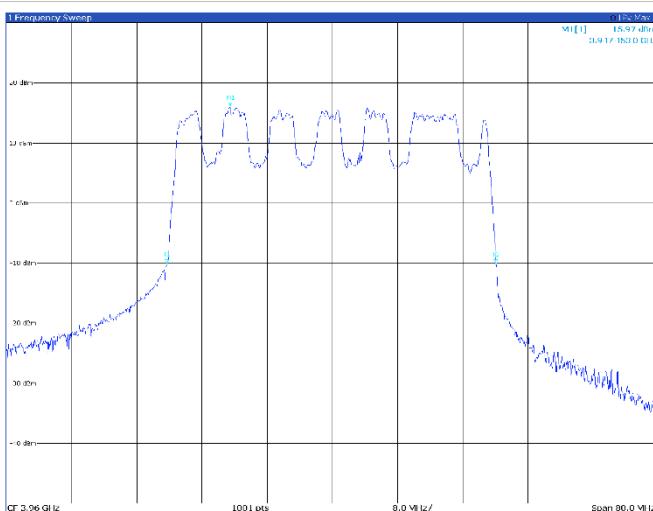
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.964555 GHz	14.78 dBm	rbP	rbP, Down BW	40.44 MHz
M2	1	3.964555 GHz	-11.61 dBm	rbP	rbP, Down BW	40.44 MHz
M3	1	3.964555 GHz	-11.05 dBm	rbP	rbP, Down BW	40.44 MHz

TM3p1a, 40 MHz, low channel


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.731508 GHz	15.43 dBm	rbP	rbP, Down BW	40.36 MHz
M2	1	3.731508 GHz	-10.76 dBm	rbP	rbP, Down BW	40.36 MHz
M3	1	3.731508 GHz	-9.90 dBm	rbP	rbP, Down BW	40.36 MHz

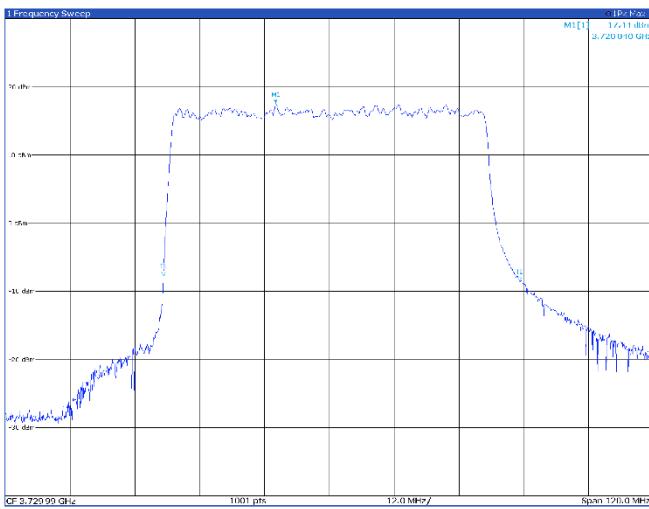
TM3p1a, 40 MHz, mid channel


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.851508 GHz	14.08 dBm	rbP	rbP, Down BW	40.36 MHz
M2	1	3.851508 GHz	-11.15 dBm	rbP	rbP, Down BW	40.36 MHz
M3	1	3.851508 GHz	-12.51 dBm	rbP	rbP, Down BW	40.36 MHz

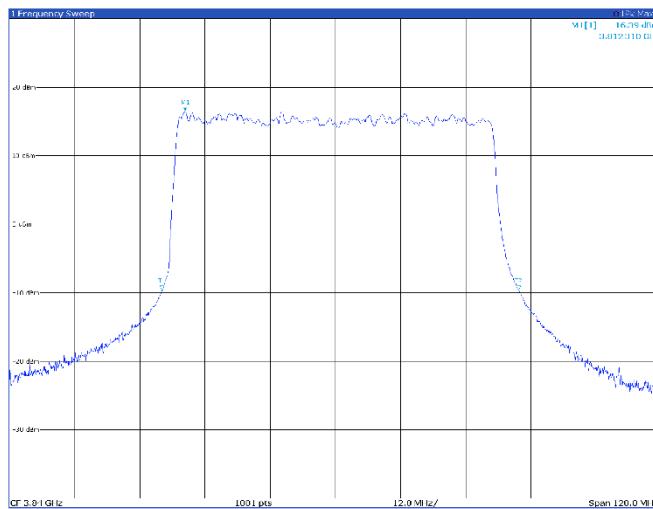
TM3p1a, 40 MHz, high channel

TM3p3, 40 MHz, low channel

TM3p3, 40 MHz, mid channel

TM3p3, 40 MHz, high channel


Band n77 – 26 dB Occupied Bandwidth Antenna port 1

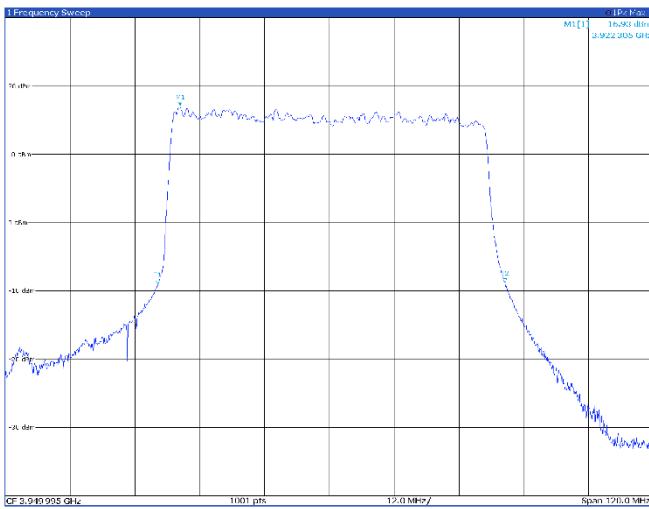
60 MHz

TM1.1, 60 MHz, low channel


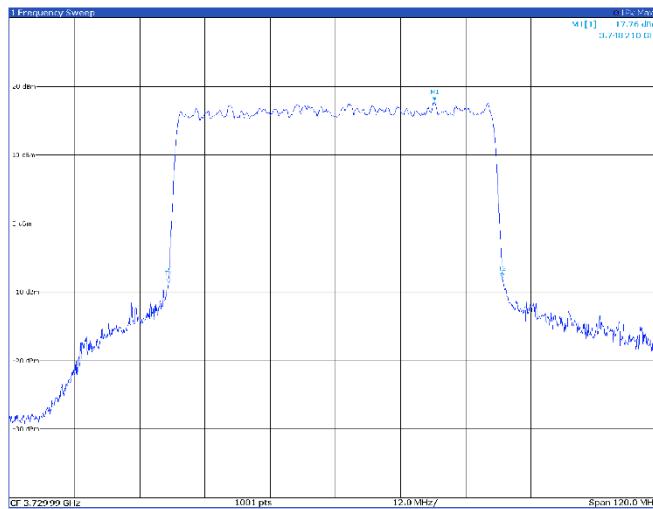
2 Marker Table					
Type	Ref	Trc	X Value	Y Value	Function
M1	1	3.720.99 GHz	17.44 dBm	rdB	rdB open BW
T1	1	3.720.99 GHz	-9.01 dBm	rdB	rdB open BW
T2	1	3.720.995 GHz	0.86 dBm	rdB	rdB open BW

TM1.1, 60 MHz, mid channel


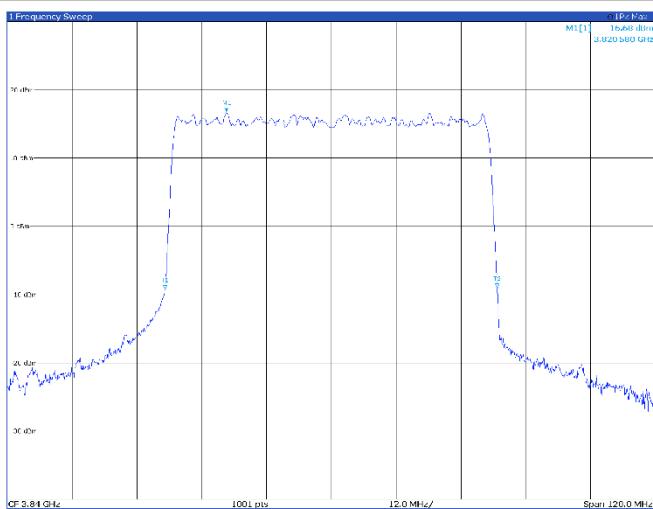
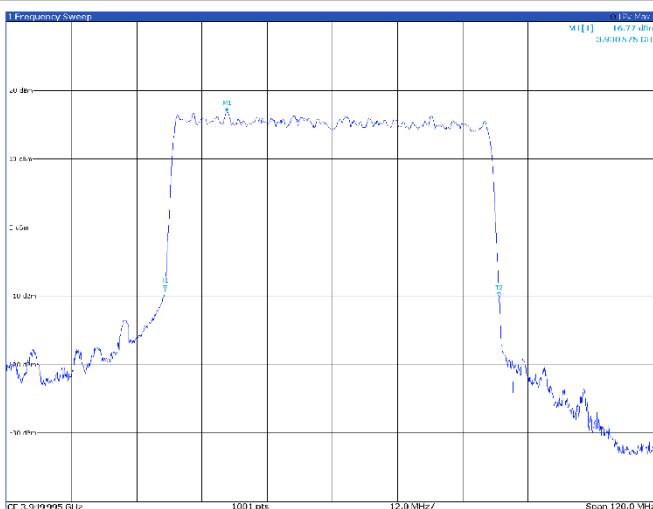
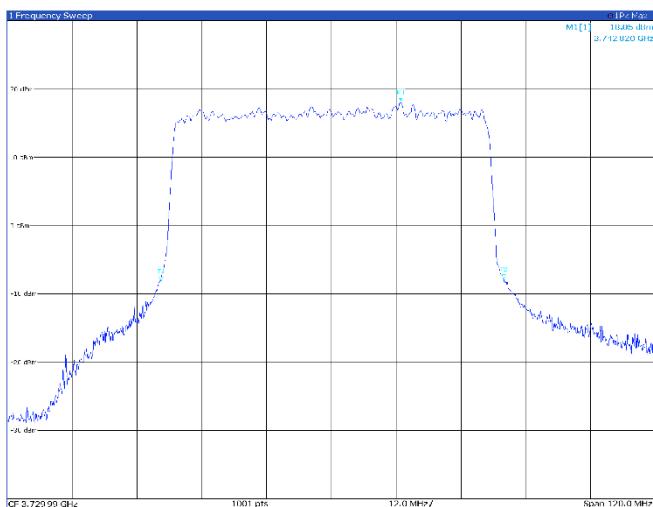
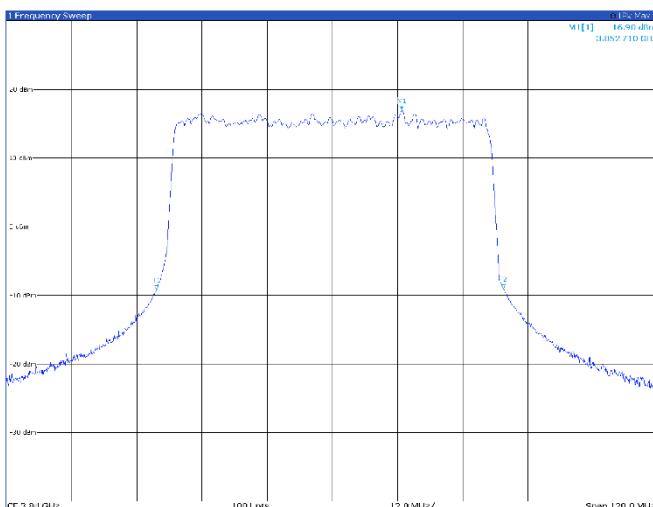
2 Marker Table					
Type	Ref	Trc	X Value	Y Value	Function
M1	1	3.81231 GHz	16.39 dBm	rdB	rdB open BW
T1	1	3.81231 GHz	-9.65 dBm	rdB	rdB open BW
T2	1	3.81200 GHz	-12.13 dBm	rdB	rdB open BW

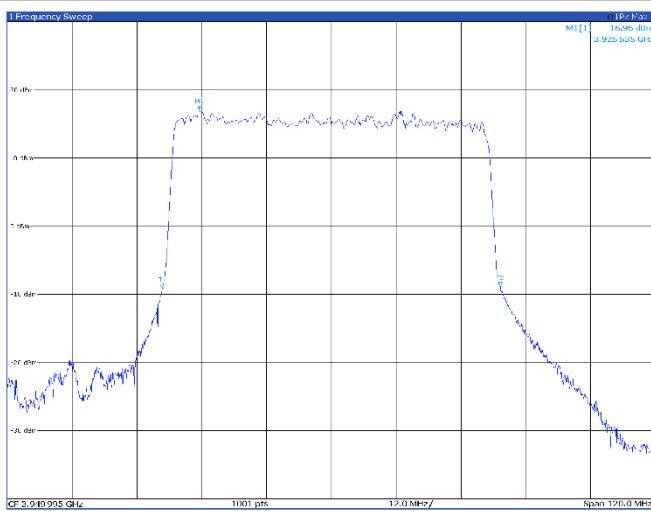
TM1.1, 60 MHz, high channel


2 Marker Table					
Type	Ref	Trc	X Value	Y Value	Function
M1	1	3.922.305 GHz	16.93 dBm	rdB	rdB open BW
T1	1	3.922.305 GHz	-9.01 dBm	rdB	rdB open BW
T2	1	3.922.3055 GHz	0.86 dBm	rdB	rdB open BW

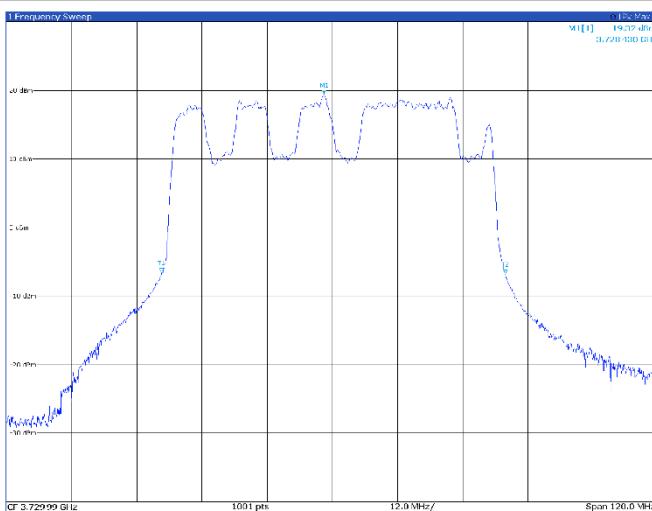
TM3p1, 60 MHz, low channel


2 Marker Table					
Type	Ref	Trc	X Value	Y Value	Function
M1	1	3.729.99 GHz	17.76 dBm	rdB	rdB open BW
T1	1	3.729.995 GHz	-9.65 dBm	rdB	rdB open BW
T2	1	3.729.9955 GHz	-12.13 dBm	rdB	rdB open BW

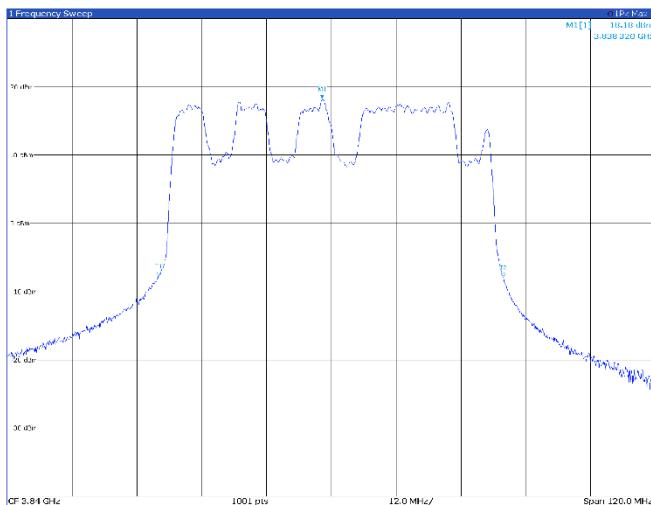
TM3p1, 60 MHz, mid channel

TM3p1, 60 MHz, high channel

TM3p1a, 60 MHz, low channel

TM3p1a, 60 MHz, mid channel


TM3p1a, 60 MHz, high channel


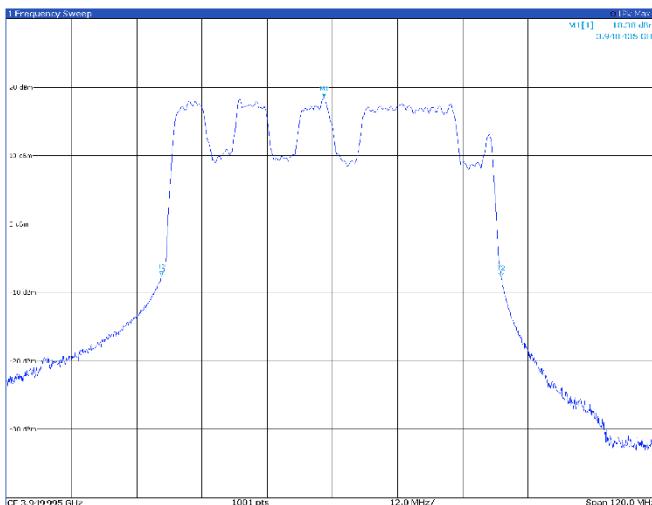
2 Marker Table						
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.925535 GHz	16.95 dBm	dB	62.58 MHz
M2	1		3.925734 GHz	-20.21 dBm	dB down BW	
M3	1		3.926255 GHz	8.67 dBm	dB up BW	

TM3p3, 60 MHz, low channel


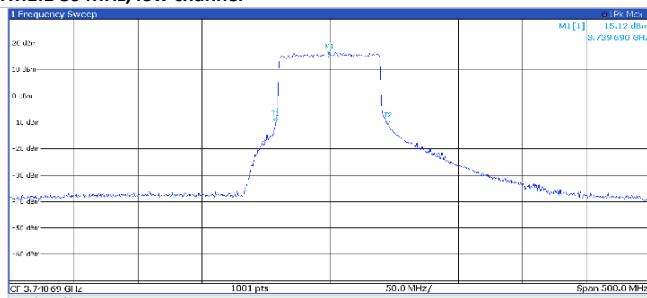
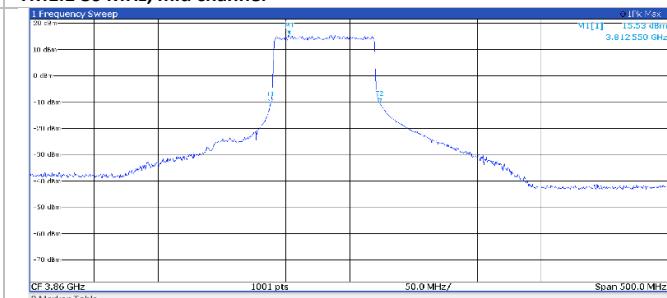
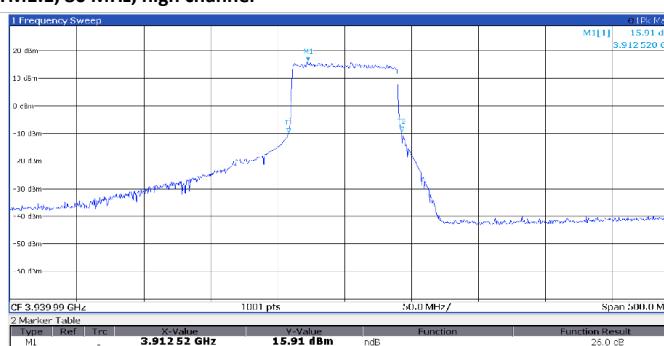
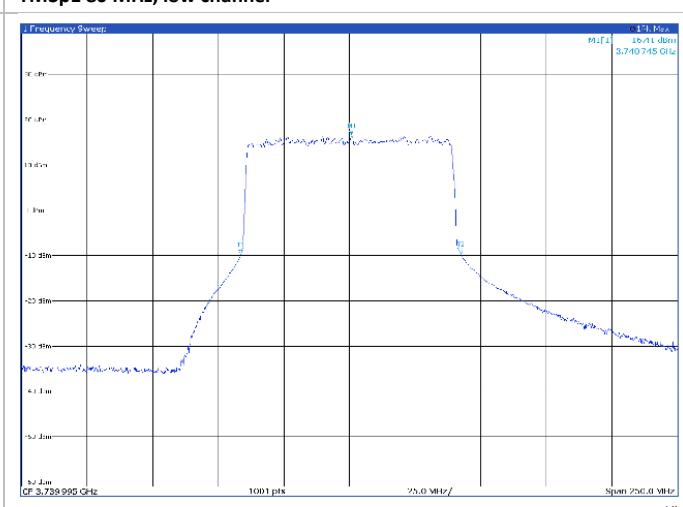
2 Marker Table						
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.72843 GHz	19.32 dBm	dB	63.18 MHz
M2	1		3.72875 GHz	-6.61 dBm	dB down BW	
M3	1		3.72925 GHz	-6.53 dBm	dB up BW	

TM3p3, 60 MHz, mid channel


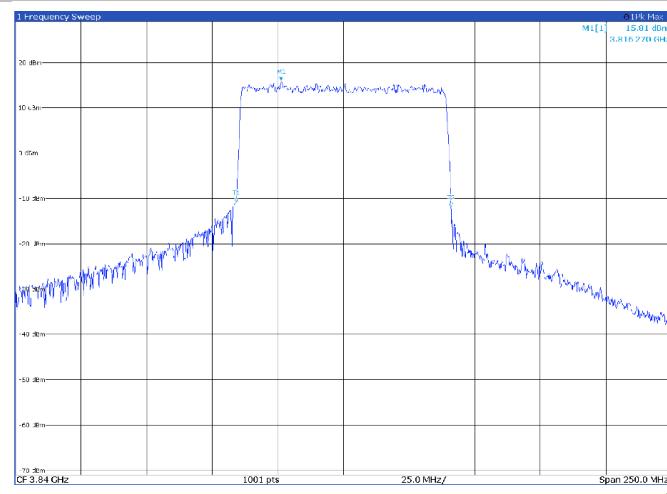
2 Marker Table						
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.8385 GHz	18.18 dBm	dB	63.78 MHz
M2	1		3.83875 GHz	-19.49 dBm	dB down BW	
M3	1		3.83925 GHz	-19.42 dBm	dB up BW	

TM3p3, 60 MHz, high channel


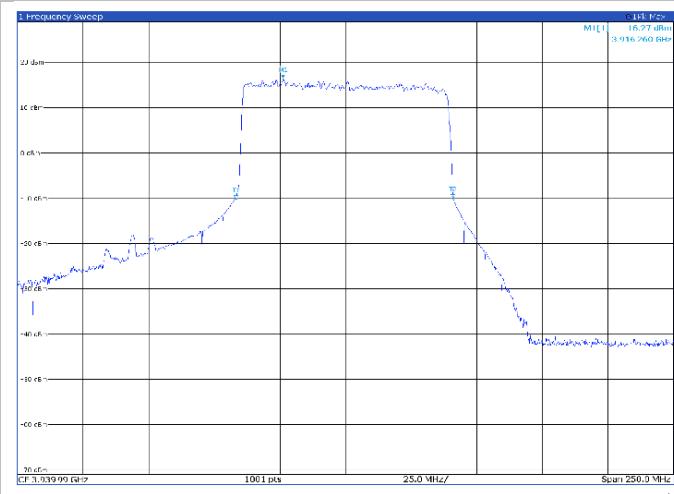
2 Marker Table						
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.948435 GHz	19.38 dBm	dB	62.45 MHz
M2	1		3.948755 GHz	-7.62 dBm	dB down BW	
M3	1		3.949045 GHz	-7.55 dBm	dB up BW	

Band n77 – 26 dB Occupied Bandwidth Antenna port 1
80 MHz
TM1.1 80 MHz, low channel

TM1.1 80 MHz, mid channel

TM1.1, 80 MHz, high channel

TM3p1 80 MHz, low channel


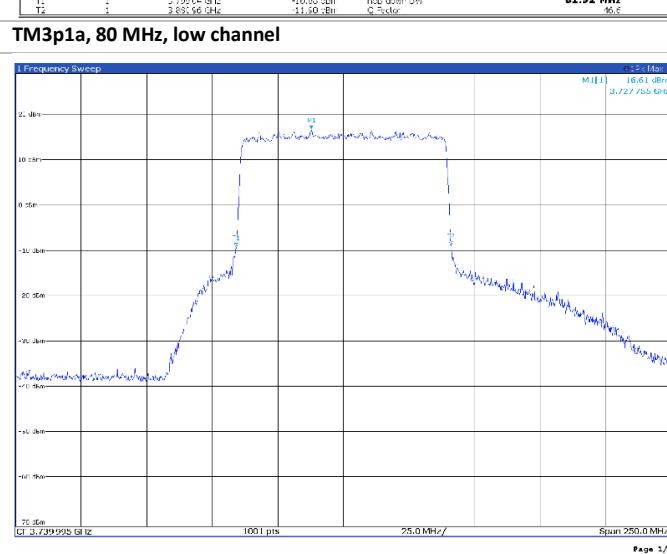
TM3p1, 80 MHz, mid channel



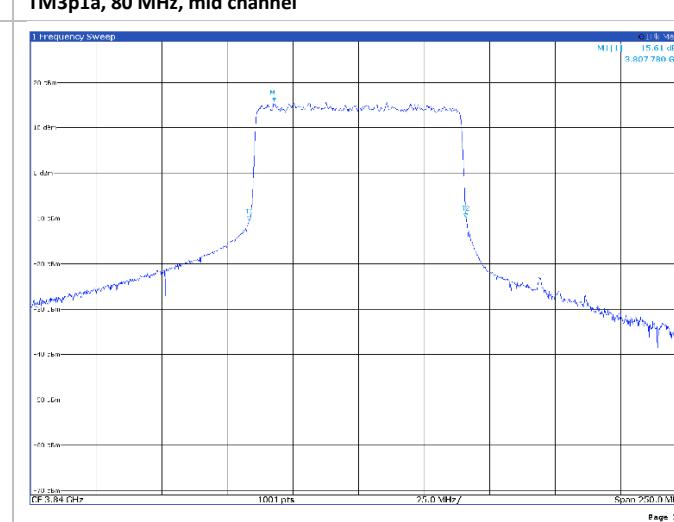
TM3p1, 80 MHz, high channel



TM3p1a, 80 MHz, low channel



TM3p1a, 80 MHz, mid channel

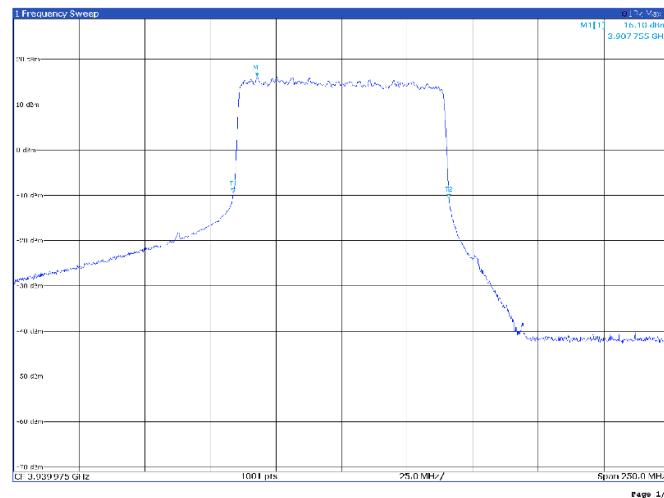


2 Marker Table

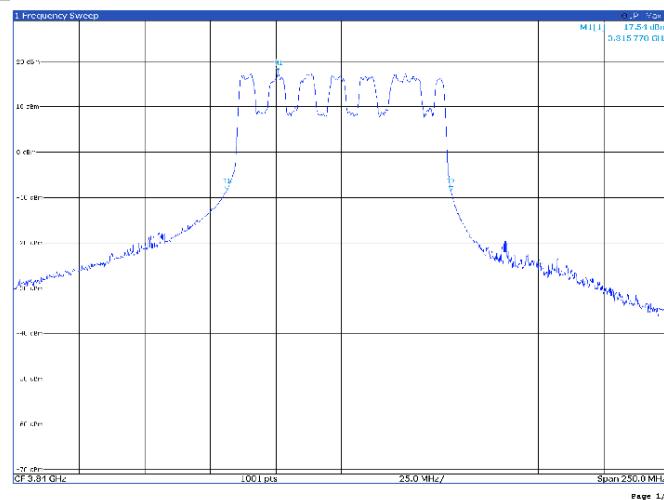
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.81627 GHz	15.81 dBm	rdB	81.92 MHz
T1	1		3.816275 GHz	-10.82 dBm	rdB down BW	81.92 MHz
T2	1		3.816265 GHz	-11.30 dBm	rdB down BW	81.92 MHz

2 Marker Table

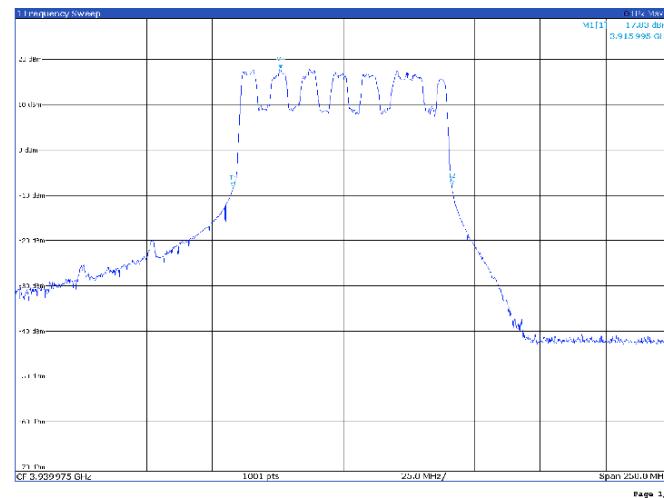
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.81626 GHz	16.27 dBm	rdB	82.67 MHz
T1	1		3.816265 GHz	-10.90 dBm	rdB down BW	82.67 MHz
T2	1		3.816260 GHz	-11.51 dBm	rdB down BW	82.67 MHz

TM3p1a, 80 MHz, high channel


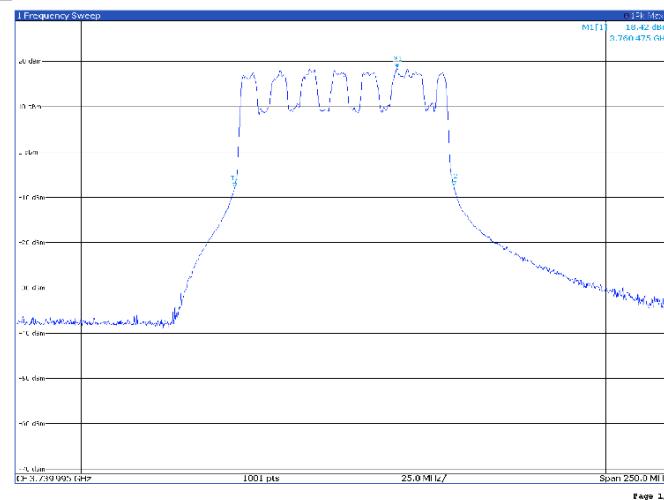
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	3.907755 GHz	16.10 dBm	-10.03 dBm	ndB, noise BW	82.17 MHz
T1	1	3.888755 GHz	9.51 dBm	-10.02 dBm	ndB, noise BW	82.17 MHz

TM3p3, 80 MHz, mid channel


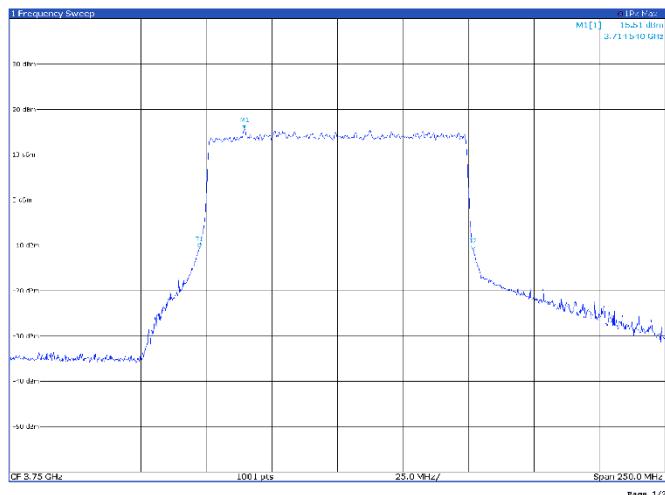
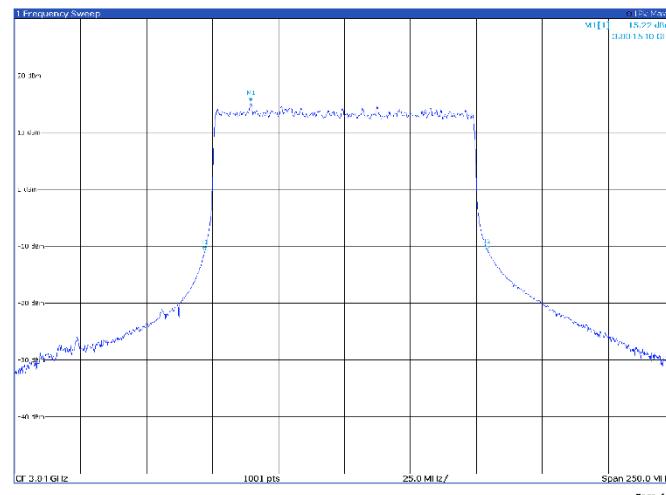
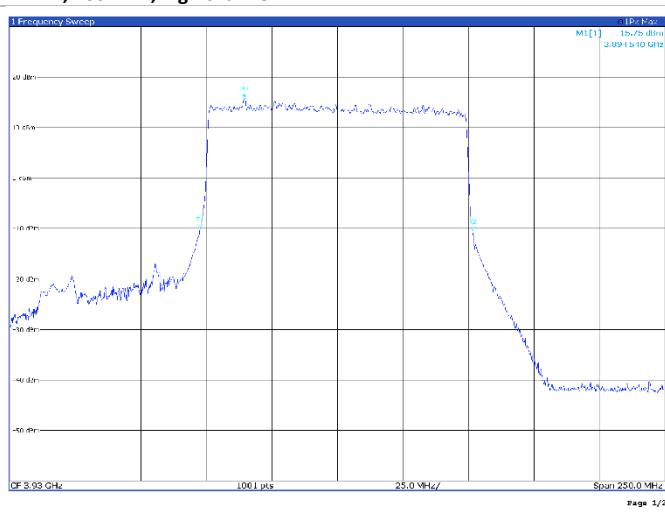
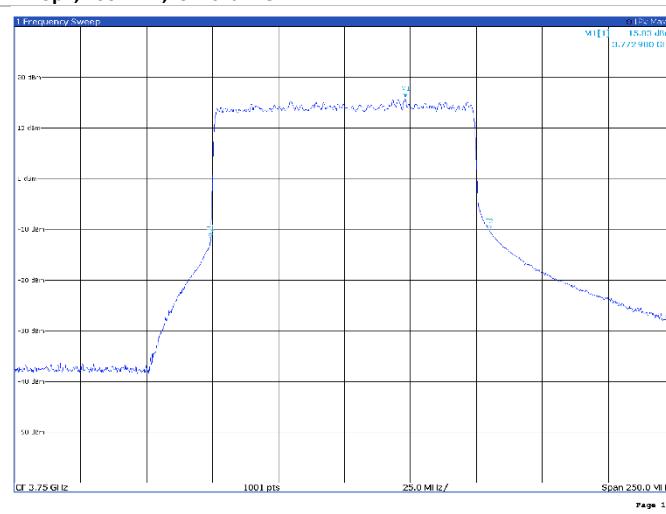
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	3.915995 GHz	17.83 dBm	-10.03 dBm	ndB, noise BW	83.17 MHz
T2	1	3.890115 GHz	16.03 dBm	-10.02 dBm	ndB, noise BW	83.17 MHz

TM3p3, 80 MHz, high channel


Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	3.915995 GHz	17.83 dBm	-10.03 dBm	ndB, noise BW	83.17 MHz
T2	1	3.891115 GHz	7.79 dBm	-10.02 dBm	ndB, noise BW	83.17 MHz

TM3p3, 80 MHz, low channel


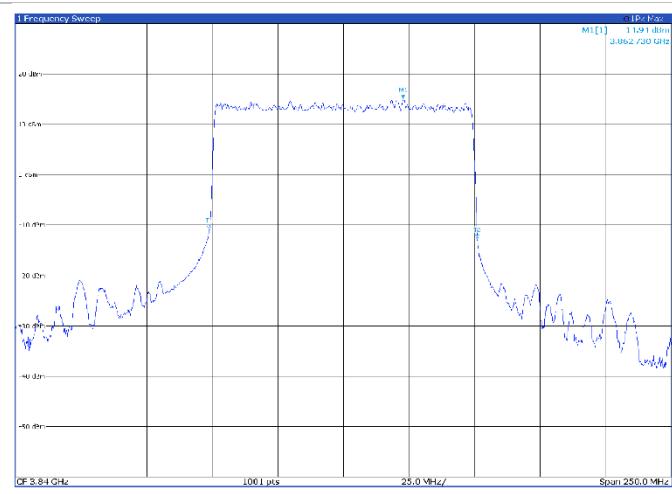
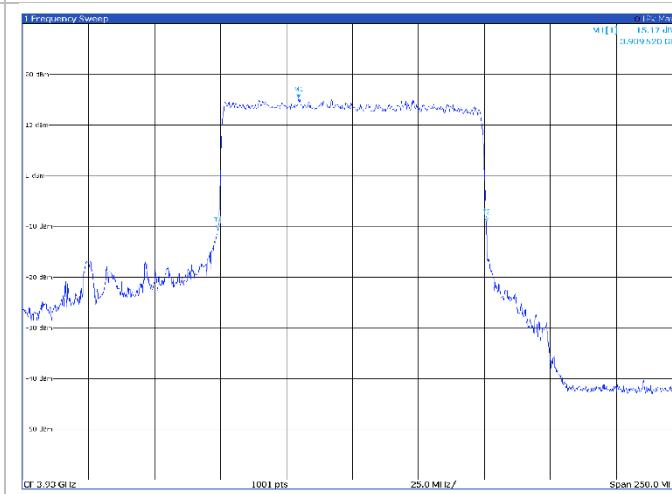
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	3.760475 GHz	18.42 dBm	-10.03 dBm	ndB, noise BW	83.42 MHz
T2	1	3.751155 GHz	7.95 dBm	-10.02 dBm	ndB, noise BW	83.42 MHz

Band n77 – 26 dB Occupied Bandwidth Antenna port 1
100 MHz
TM1.1, 100 MHz, low channel

TM1.1, 100 MHz, mid channel

TM1.1, 100 MHz, high channel

TM3p1, 100 MHz, low channel

2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.71455 GHz	15.51 dBm	<6	<6	104.40 MHz
T1	1	3.7500 GHz	<1.7 dBm	<6 down 3dB	<6 down 3dB	104.40 MHz
T2	1	3.80454 GHz	<1.8 dBm	<6 down 3dB	<6 down 3dB	104.40 MHz

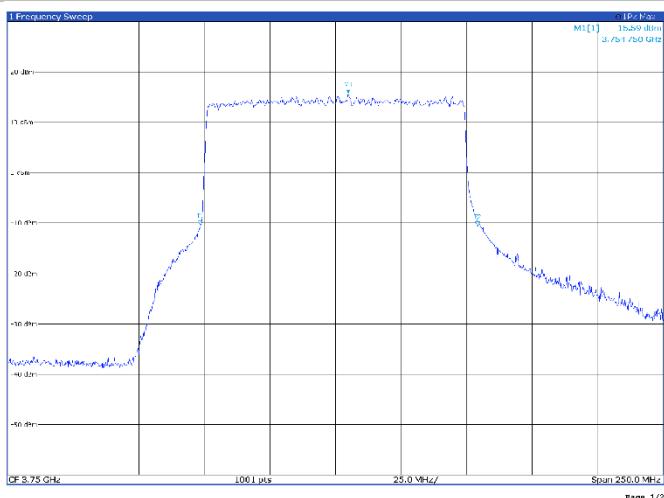
2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.80454 GHz	15.22 dBm	<6	<6 down 3dB	107.14 MHz
T1	1	3.72992 GHz	<10.97 dBm	<6 down 3dB	<6 down 3dB	107.14 MHz
T2	1	3.7500 GHz	<10.9425 dBm	<6 down 3dB	<6 down 3dB	107.14 MHz

TM3p1, 100 MHz, mid channel

TM3p1, 100 MHz, high channel


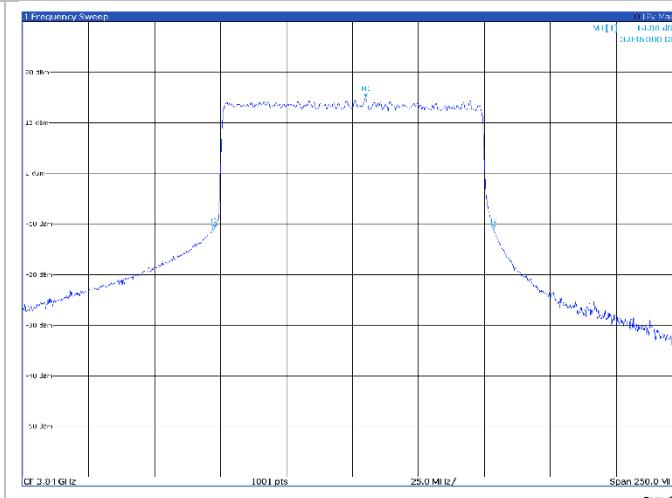
2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1		1	3.86273 GHz	14.94 dBm	-dB down BW	102.15 MHz
T1		1	3.86273 GHz	-10.94 dBm	-dB down BW	
T2		1	3.86273 GHz	-10.94 dBm	-dB down BW	

TM3p1a, 100 MHz, low channel


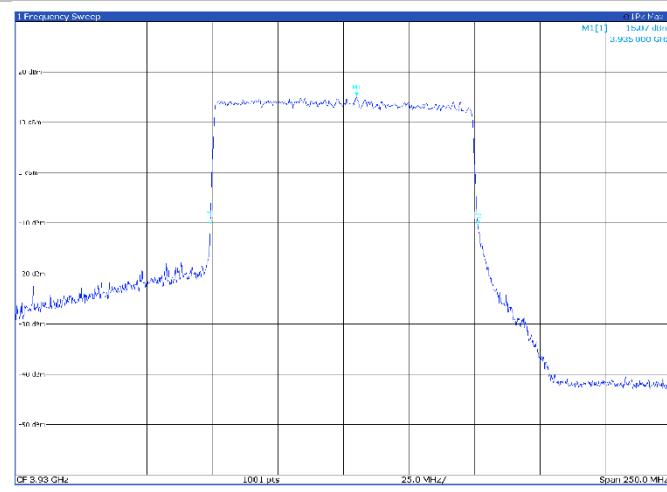
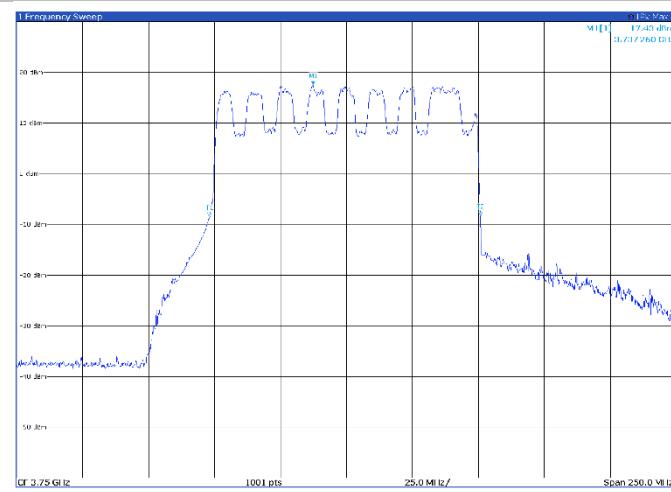
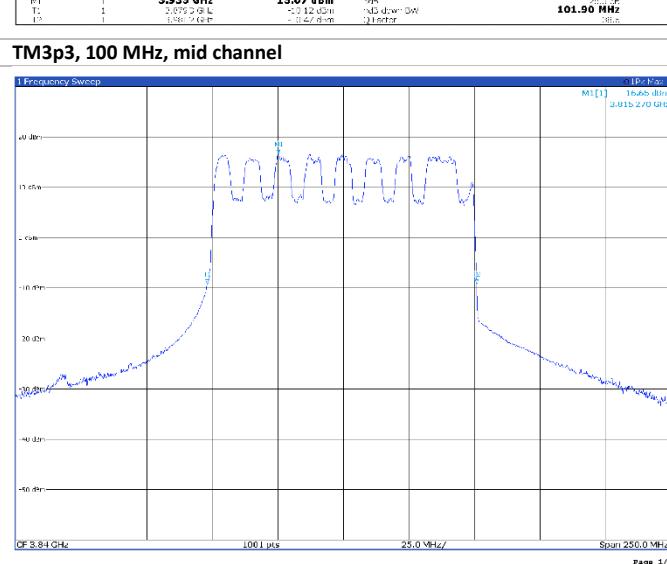
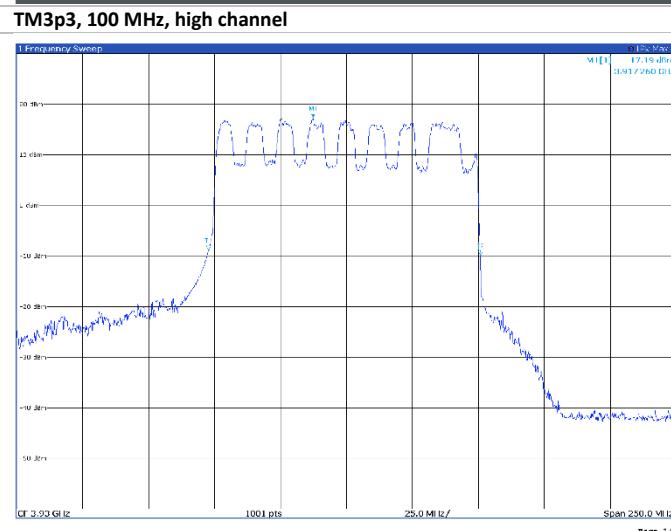
2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1		1	3.90952 GHz	15.17 dBm	-dB down BW	101.65 MHz
T1		1	3.90952 GHz	-10.59 dBm	-dB down BW	
T2		1	3.90952 GHz	-10.59 dBm	-dB down BW	

TM3p1a, 100 MHz, mid channel


2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1		1	3.84848 GHz	14.88 dBm	-dB down BW	106.14 MHz
T1		1	3.84848 GHz	-11.10 dBm	-dB down BW	
T2		1	3.84848 GHz	-11.10 dBm	-dB down BW	

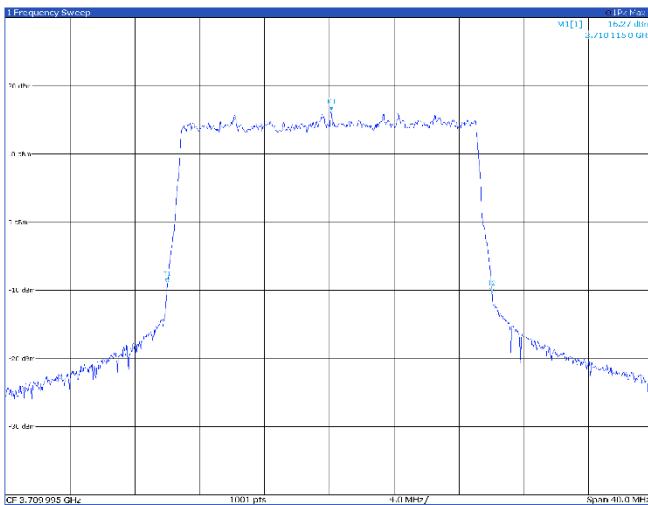
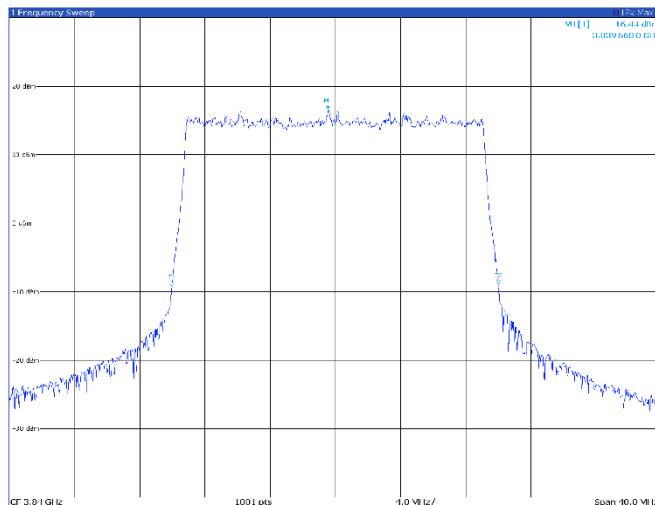
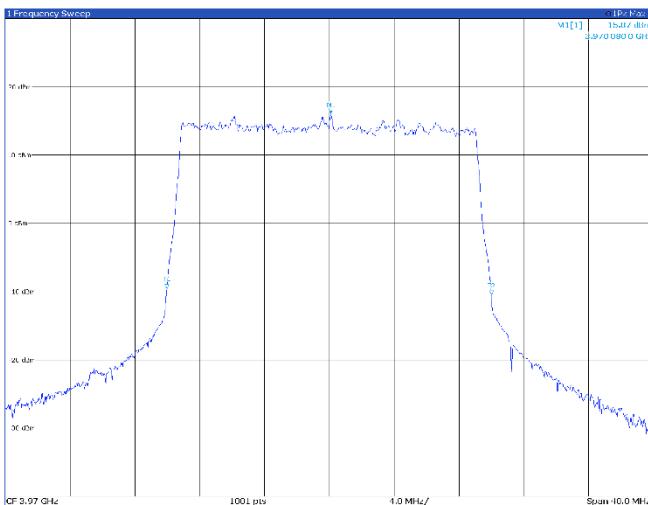
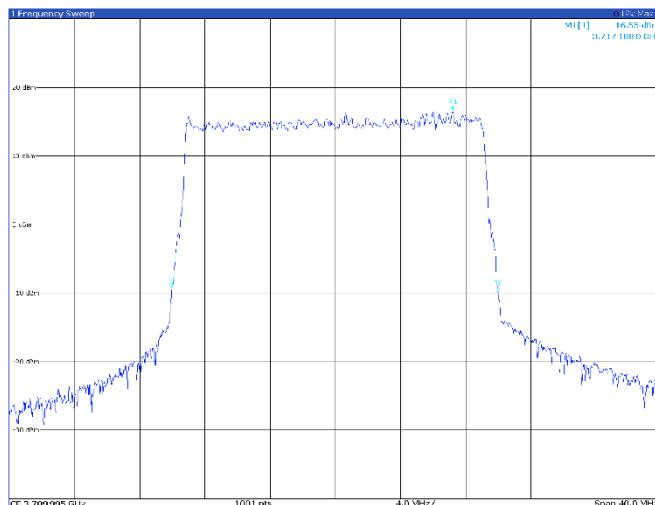
TM3p1a, 100 MHz, high channel

TM3p3, 100 MHz, low channel

TM3p3, 100 MHz, mid channel

TM3p3, 100 MHz, high channel


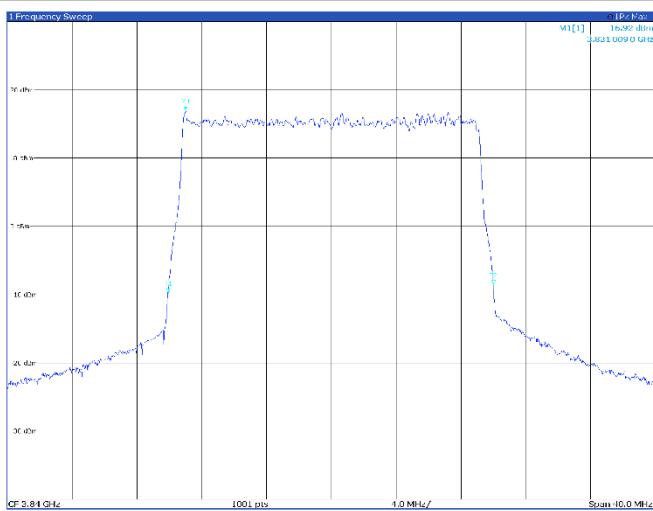
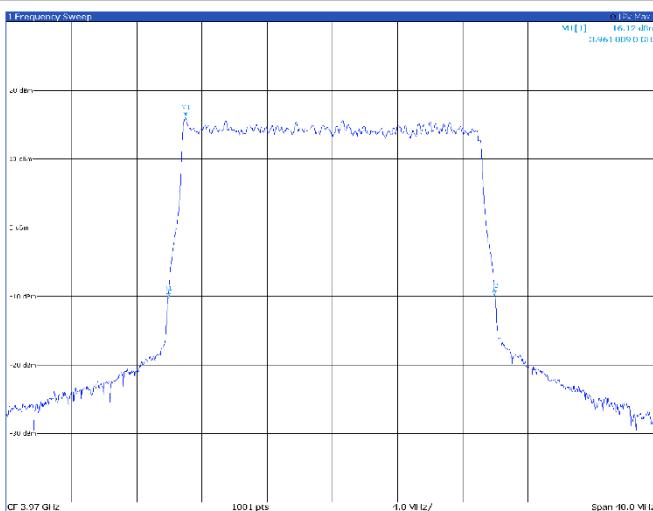
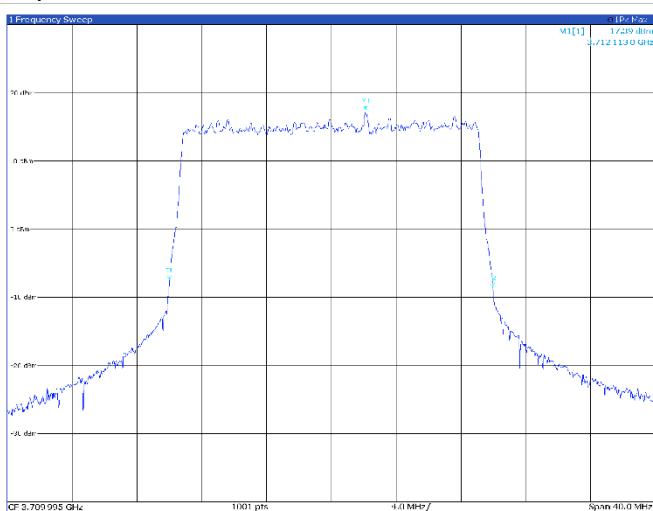
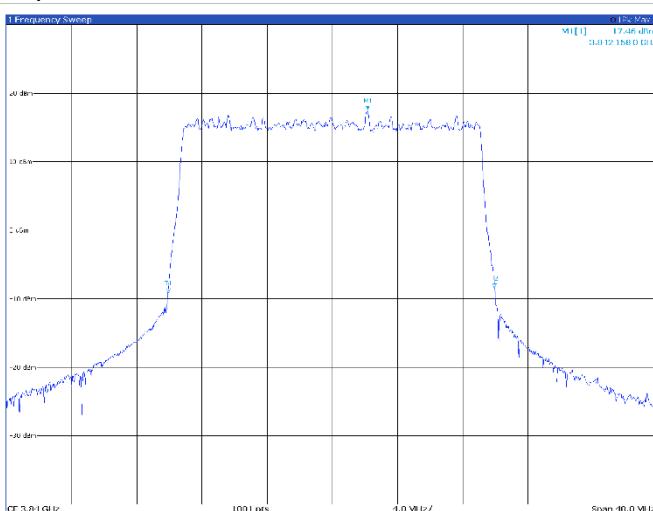
2 Marker Table

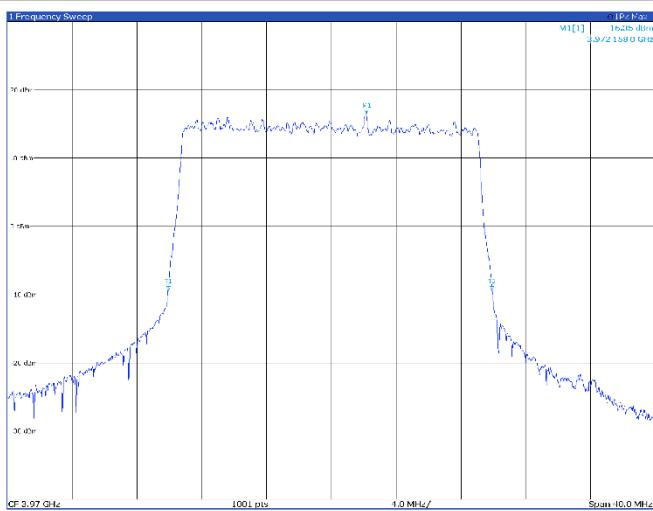
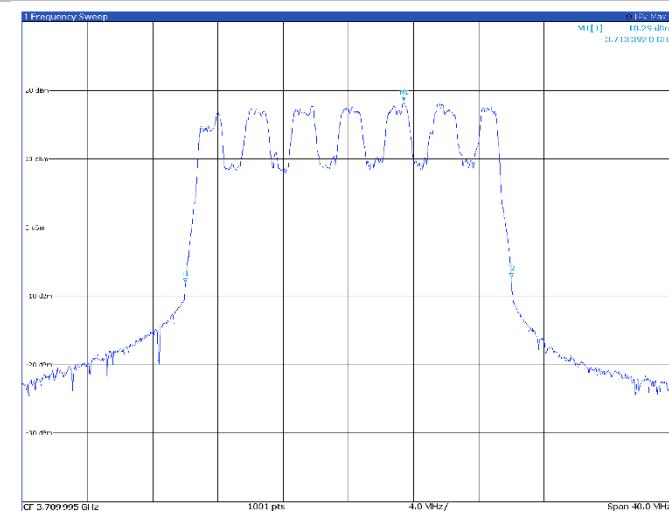
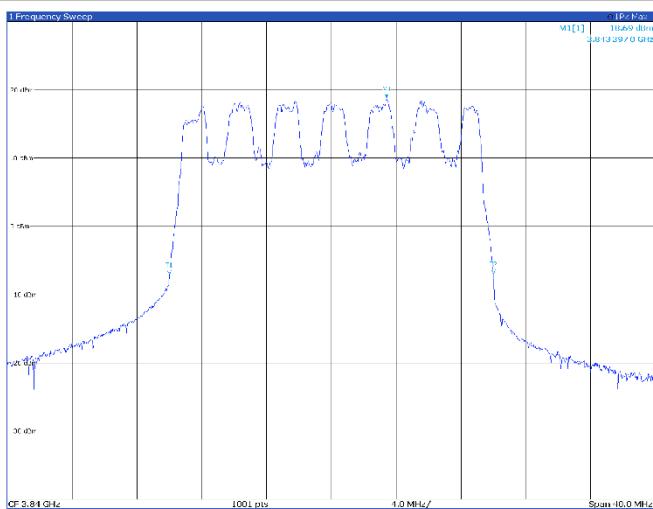
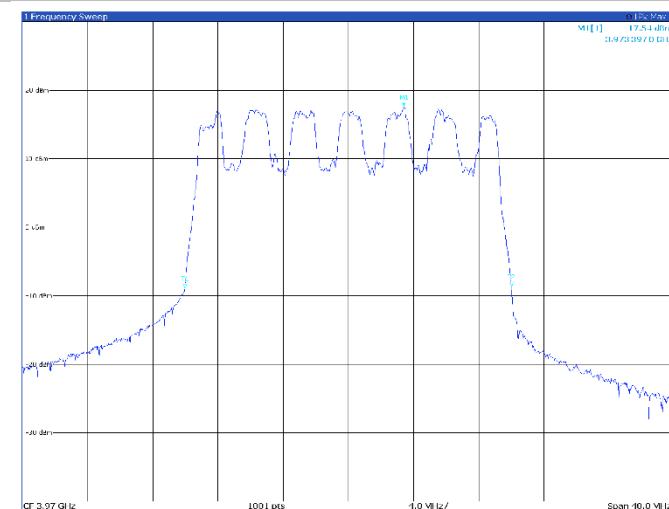
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.935 GHz	15.07 dBm	>dB	101.90 MHz
T1	1		3.897 254 GHz	<12.00 dB	<dB down 2dB	
T2	1		3.935 270 GHz	<12.00 dB	<dB down 2dB	

2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1		3.937 26 GHz	17.43 dBm	>dB	102.65 MHz
T1	1		3.869 254 GHz	<15.00 dB	<dB down 2dB	
T2	1		3.917 260 GHz	<15.00 dB	<dB down 2dB	

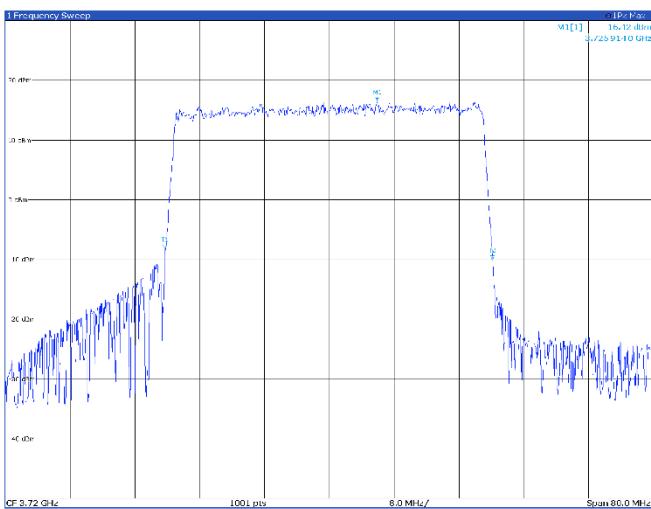
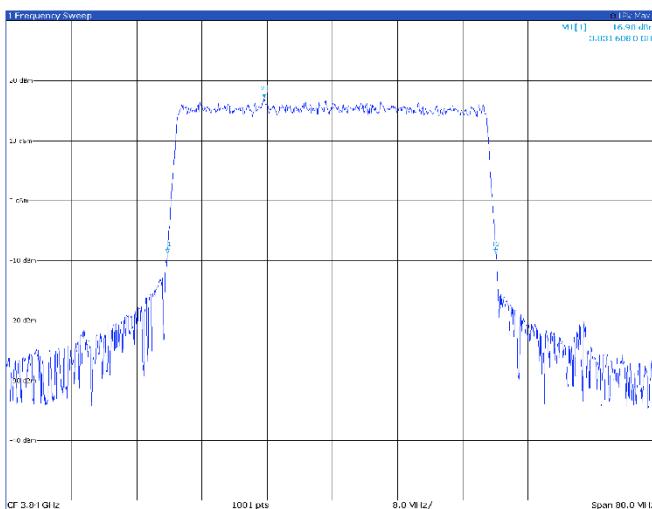
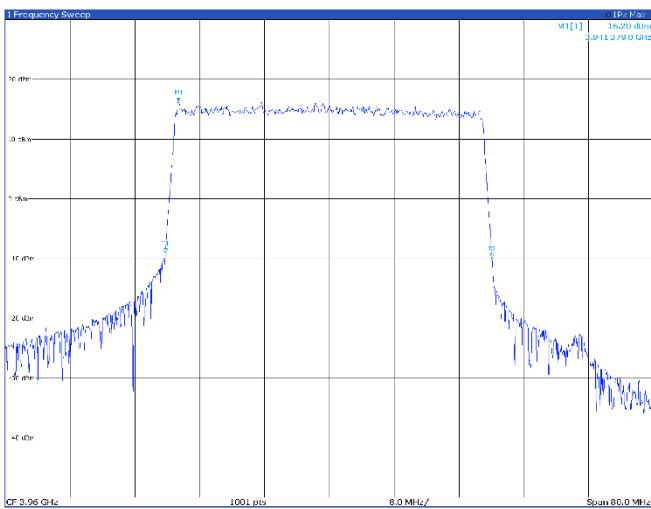
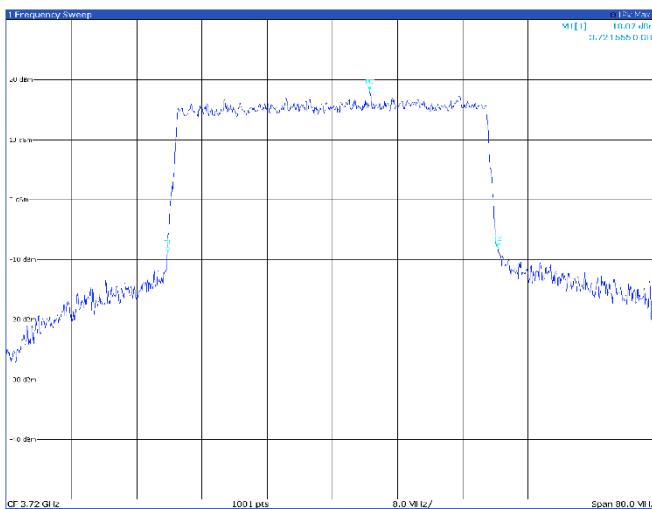
Antenna port 2
Band n77 – 26 dB Occupied Bandwidth Antenna port 2
20 MHz
TM1.1, 20 MHz, low channel

TM1.1, 20 MHz, mid channel

TM1.1, 20 MHz, high channel

TM3p1, 20 MHz, low channel


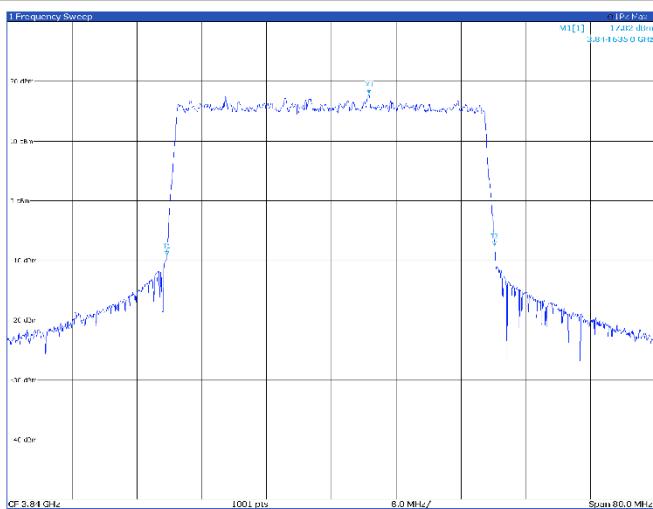
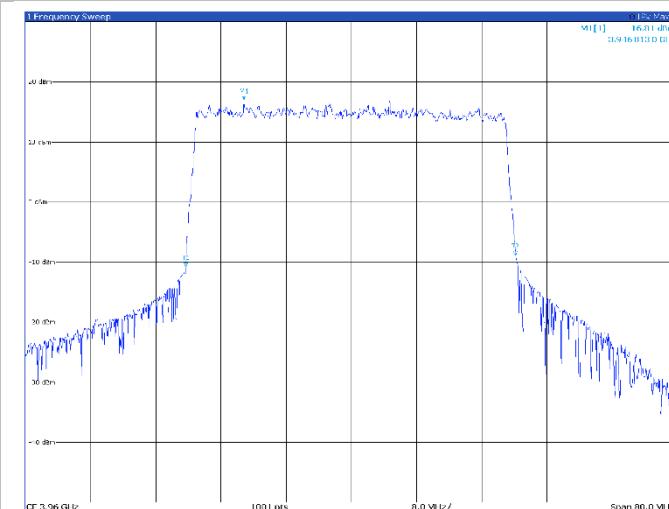
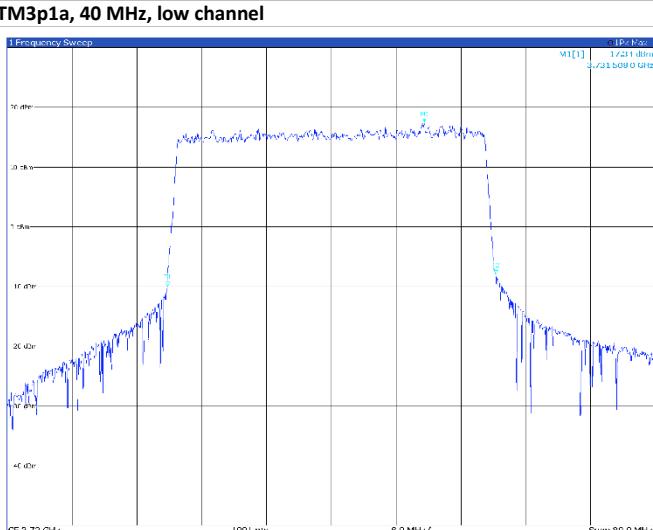
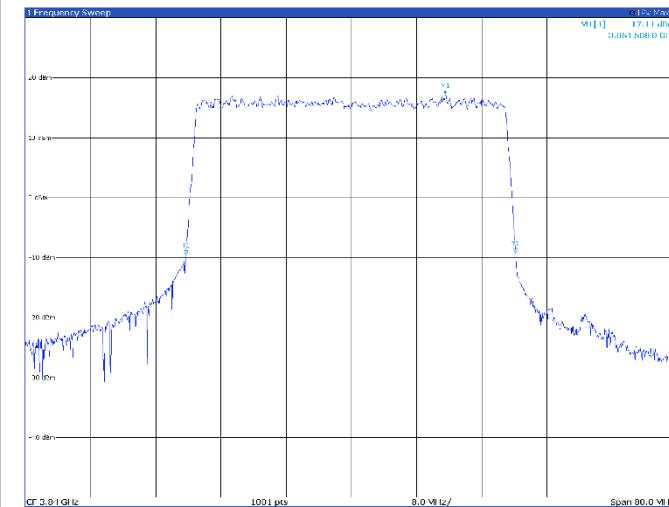
TM3p1, 20 MHz, mid channel

TM3p1, 20 MHz, high channel

TM3p1a, 20 MHz, low channel

TM3p1a, 20 MHz, mid channel


TM3p1a, 20 MHz, high channel

TM3p3, 20 MHz, low channel

TM3p3, 20 MHz, mid channel

TM3p3, 20 MHz, high channel


Band n77 – 26 dB Occupied Bandwidth Antenna port 2

40 MHz

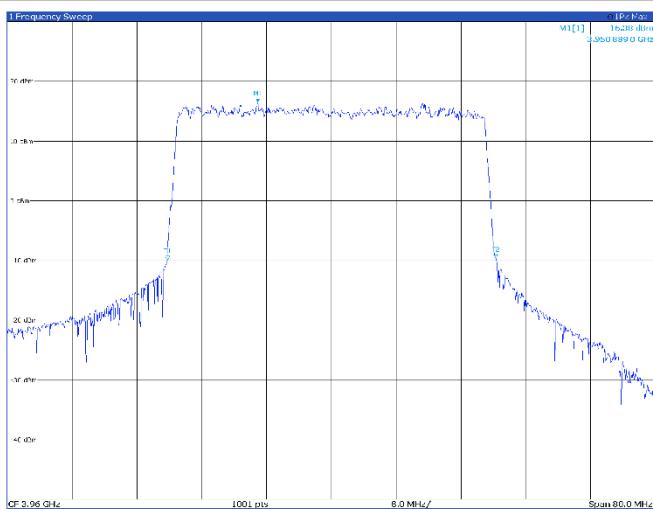
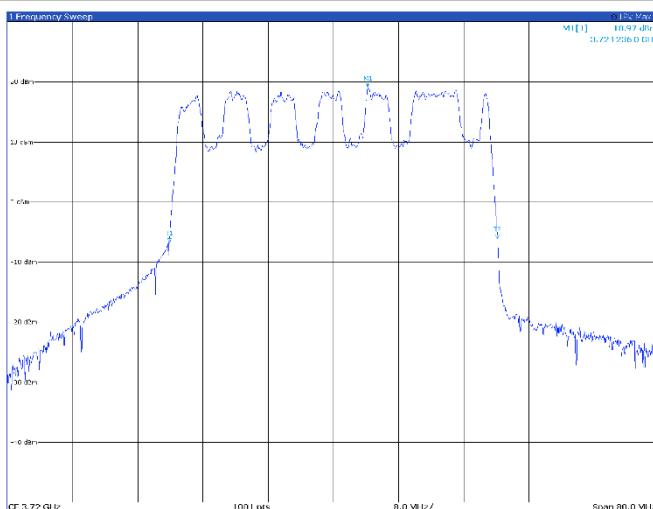
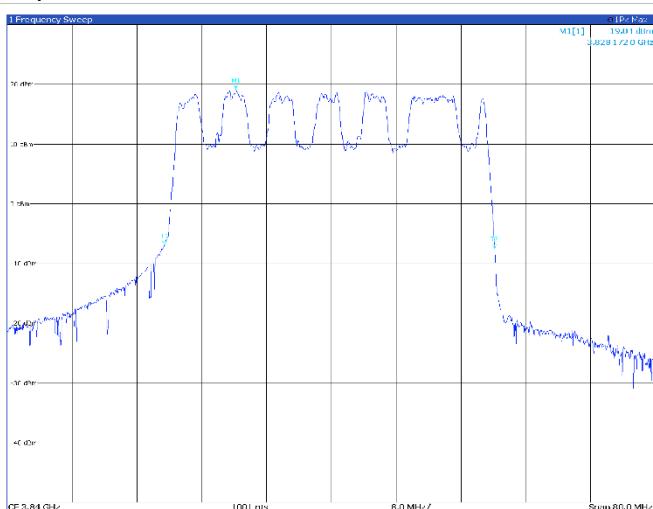
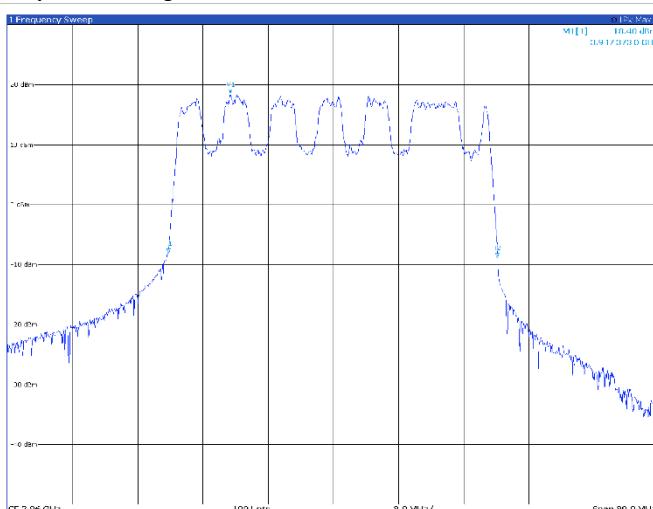
TM1.1, 40 MHz, low channel

TM1.1, 40 MHz, mid channel

TM1.1, 40 MHz, high channel

TM3p1, 40 MHz, low channel


TM3p1, 40 MHz, mid channel

TM3p1, 40 MHz, high channel

TM3p1a, 40 MHz, low channel

TM3p1a, 40 MHz, mid channel

2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	1	3.844 635 GHz	17.62 dBm	dBm	20.0 dB
T1	1	1	3.8197 GHz	-9.30 dBm	dB down BW	40.44 MHz
T2	1	1	3.96014 GHz	-7.54 dBm	Q Factor	95.1

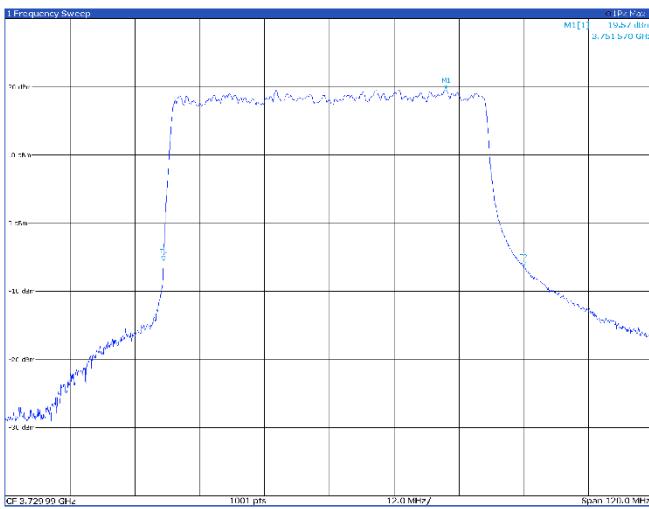
2 Marker Table

Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	1	3.946 813 GHz	16.81 dBm	dBm	20.0 dB
T1	1	1	3.8197 GHz	-10.05 dBm	dB down BW	40.44 MHz
T2	1	1	3.96014 GHz	-9.32 dBm	Q Factor	95.2

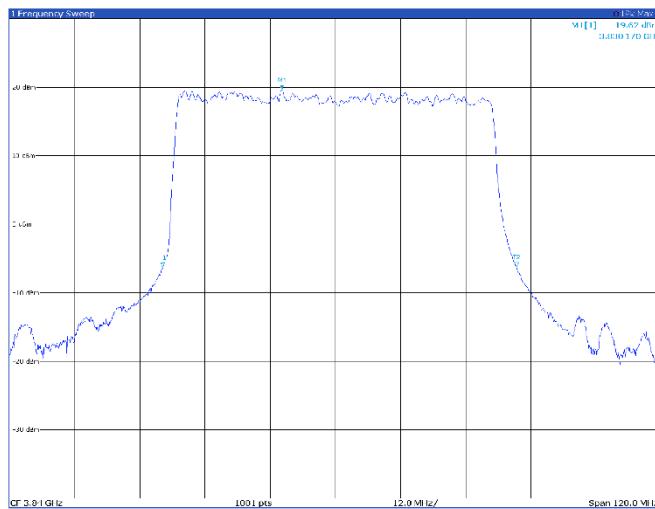
TM3p1a, 40 MHz, high channel

TM3p3, 40 MHz, low channel

TM3p3, 40 MHz, mid channel

TM3p3, 40 MHz, high channel


Band n77 – 26 dB Occupied Bandwidth Antenna port 2

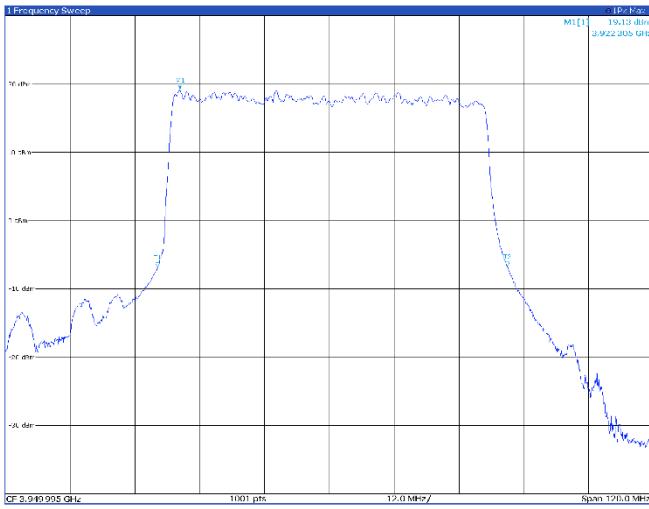
60 MHz

TM1.1, 60 MHz, low channel


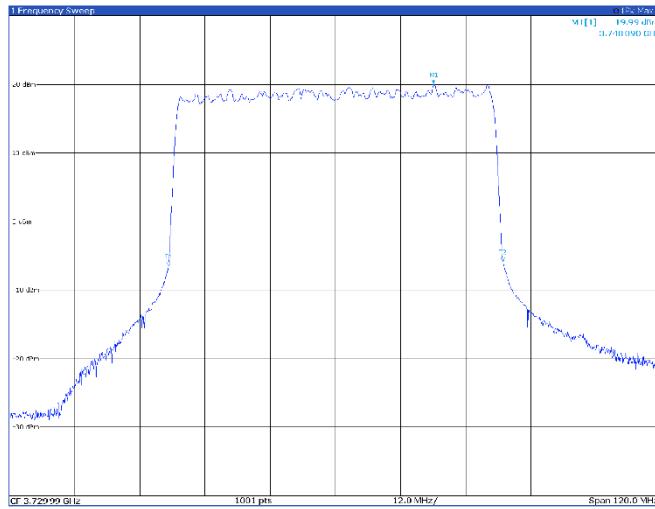
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.720.99 GHz	19.99 dBm	19.99 dBm	noP open BW	66.65 MHz
11	1	3.720.99 GHz	-0.01 dBm	-0.01 dBm	noB open BW	
12	1	3.720.99 GHz	-0.01 dBm	-0.01 dBm	C_0 factor	

TM1.1, 60 MHz, mid channel


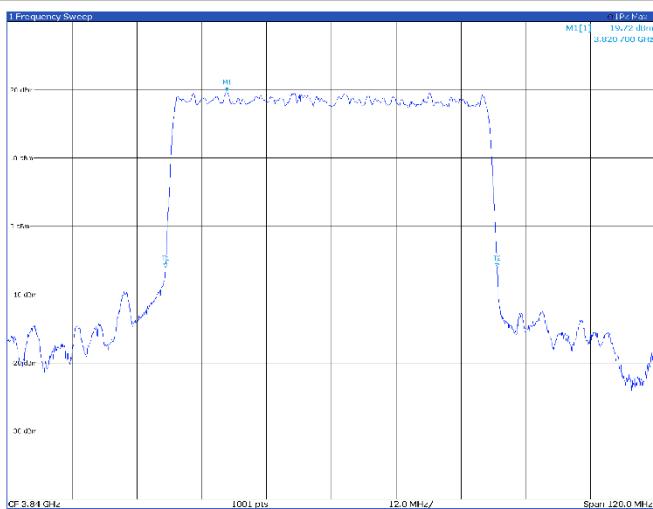
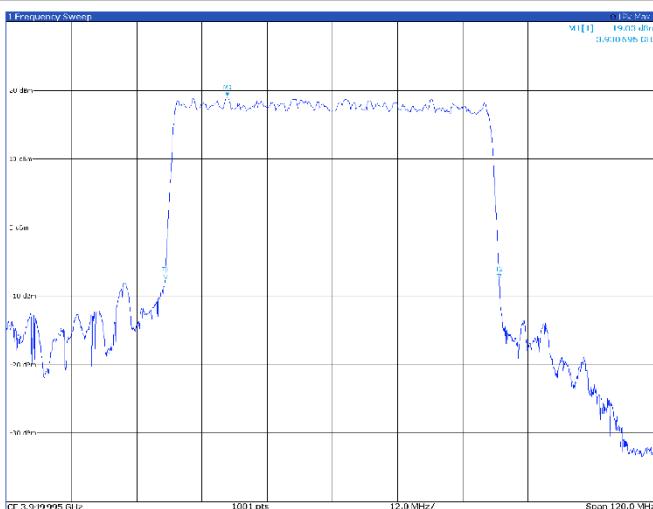
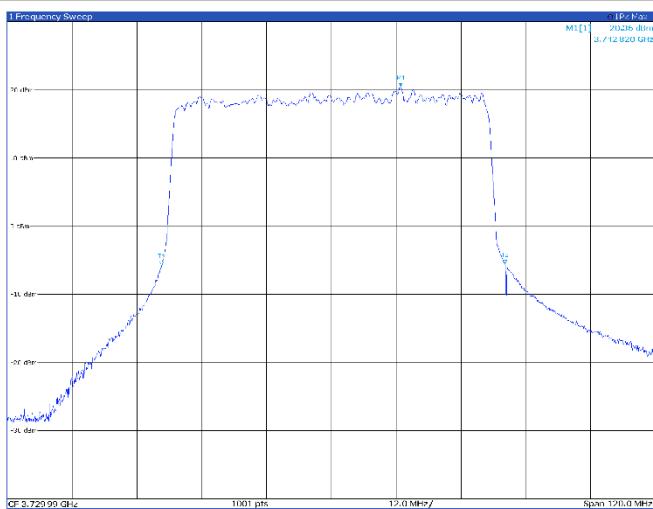
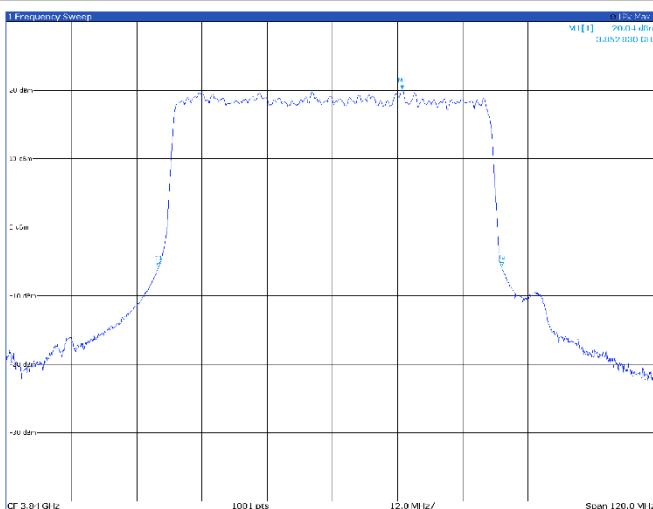
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.81 GHz	19.99 dBm	19.99 dBm	noP open BW	65.09 MHz
11	1	3.81 GHz	-0.11 dBm	-0.11 dBm	noB open BW	
12	1	3.81 GHz	-0.14 dBm	-0.14 dBm	C_0 factor	

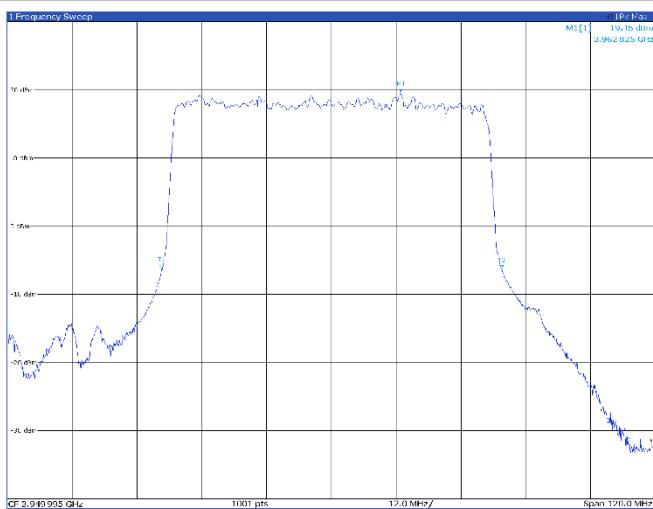
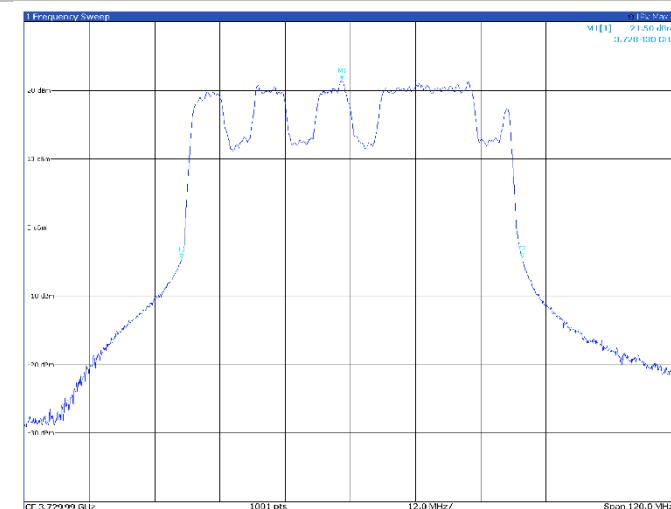
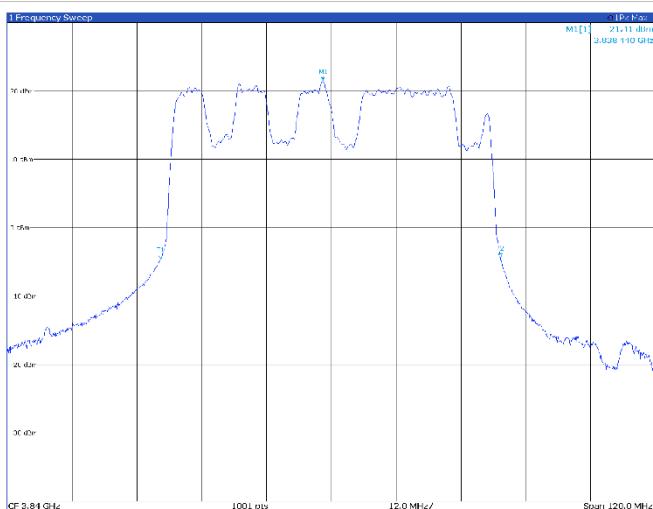
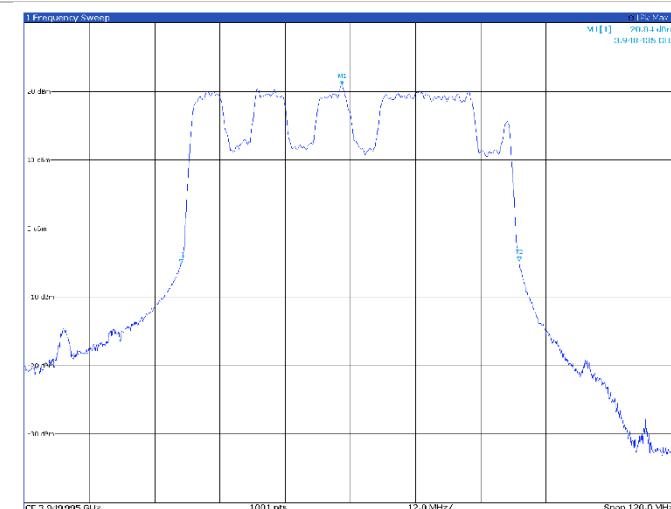
TM1.1, 60 MHz, high channel


Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.910.995 GHz	19.99 dBm	19.99 dBm	noP open BW	64.73 MHz
11	1	3.910.995 GHz	-0.01 dBm	-0.01 dBm	noB open BW	
12	1	3.910.995 GHz	-0.01 dBm	-0.01 dBm	C_0 factor	

TM3p1, 60 MHz, low channel


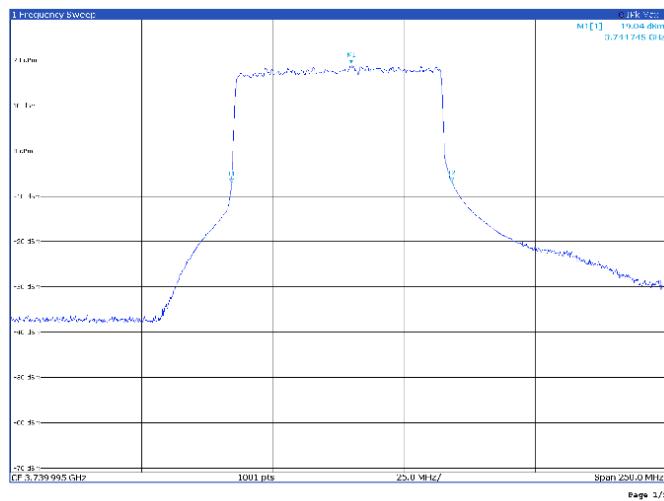
Type	Ref	Trc	X Value	Y Value	Function	Function Result
M1	1	3.630.17 GHz	19.99 dBm	19.99 dBm	noP open BW	61.50 MHz
11	1	3.630.17 GHz	-0.11 dBm	-0.11 dBm	noB open BW	
12	1	3.630.17 GHz	-0.14 dBm	-0.14 dBm	C_0 factor	

TM3p1, 60 MHz, mid channel

TM3p1, 60 MHz, high channel

TM3p1a, 60 MHz, low channel

TM3p1a, 60 MHz, mid channel


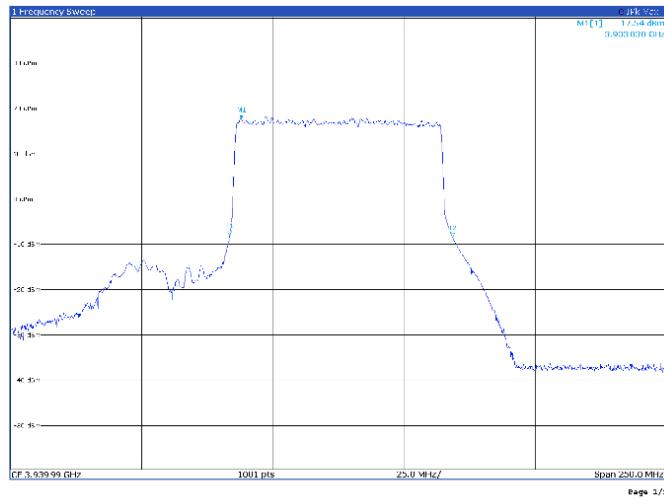
TM3p1a, 60 MHz, high channel

TM3p3, 60 MHz, low channel

TM3p3, 60 MHz, mid channel

TM3p3, 60 MHz, high channel


Band n77 – 26 dB Occupied Bandwidth Antenna port 2

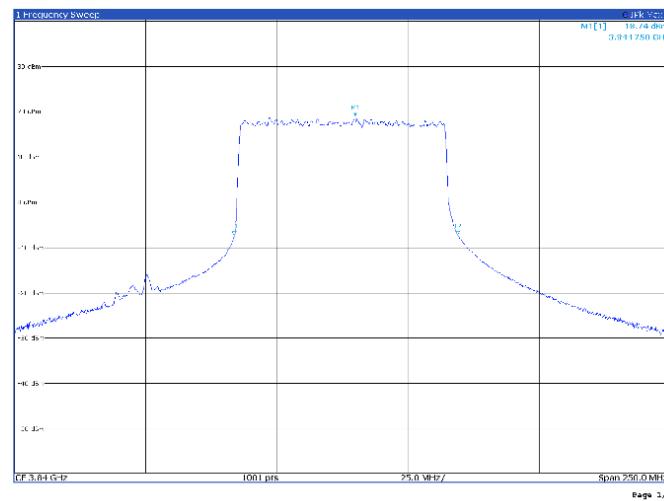
80 MHz

TM1.1, 80 MHz, low channel


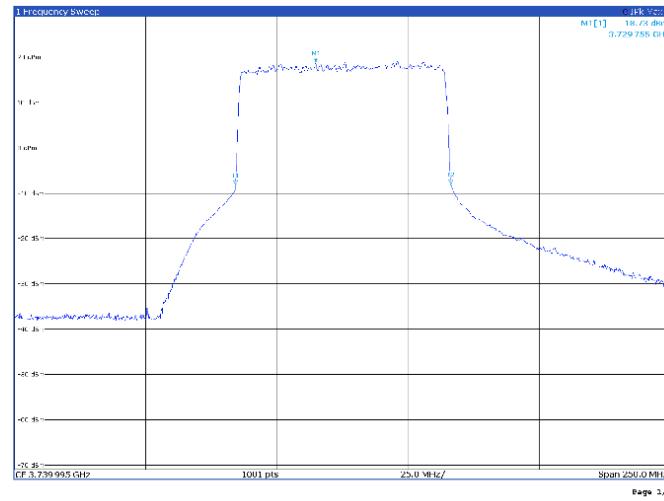
2 Marker Table						
Type	Ref	Trc	X-Value	V-Value	Function	Function Result
V1	1	3.744745 GHz	19.04 dBm	1dB	ref. above BW	83.52 MHz
T1	1	3.739995 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6
T2	1	3.739995 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6

TM1.1, 80 MHz, high channel


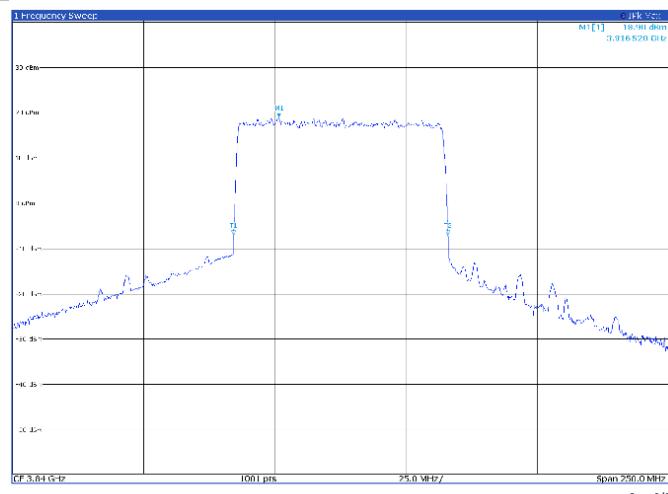
2 Marker Table						
Type	Ref	Trc	X-Value	V-Value	Function	Function Result
V1	1	3.900303 GHz	17.54 dBm	1dB	ref. above BW	84.92 MHz
T1	1	3.900303 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6
T2	1	3.900303 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6

TM1.1, 80 MHz, mid channel


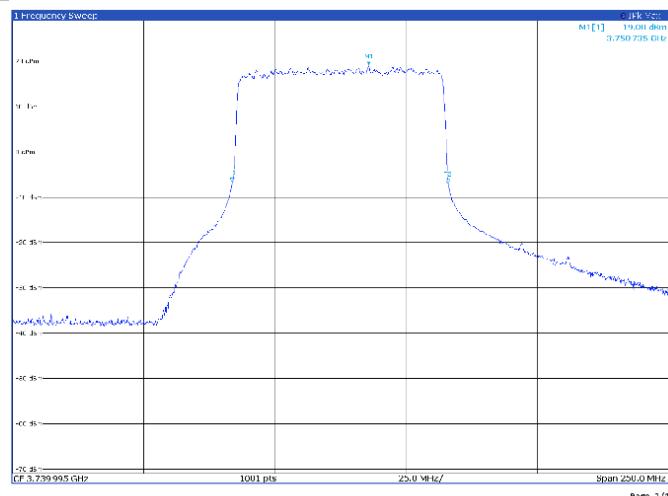
2 Marker Table						
Type	Ref	Trc	X-Value	V-Value	Function	Function Result
V1	1	3.844755 GHz	18.74 dBm	1dB	ref. above BW	85.16 MHz
T1	1	3.844755 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6
T2	1	3.844755 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6

TM3p1, 80 MHz, low channel


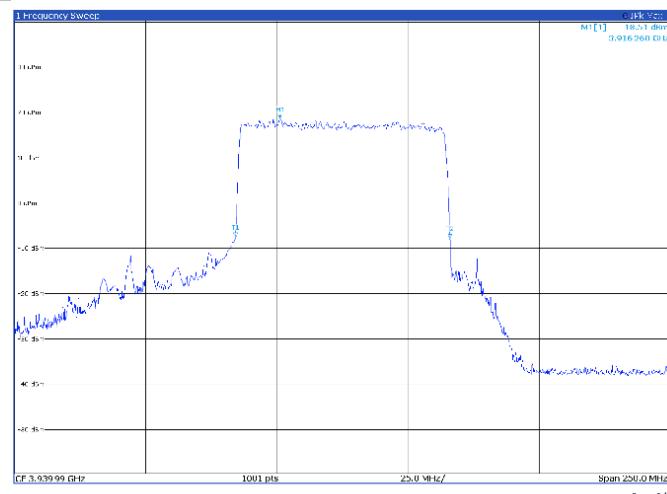
2 Marker Table						
Type	Ref	Trc	X-Value	V-Value	Function	Function Result
V1	1	3.729755 GHz	18.73 dBm	1dB	ref. above BW	81.92 MHz
T1	1	3.739995 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6
T2	1	3.739995 GHz	-0.05 dBm	-0.02 dBm	Q-30dB	31.6

TM3p1, 80 MHz, mid channel


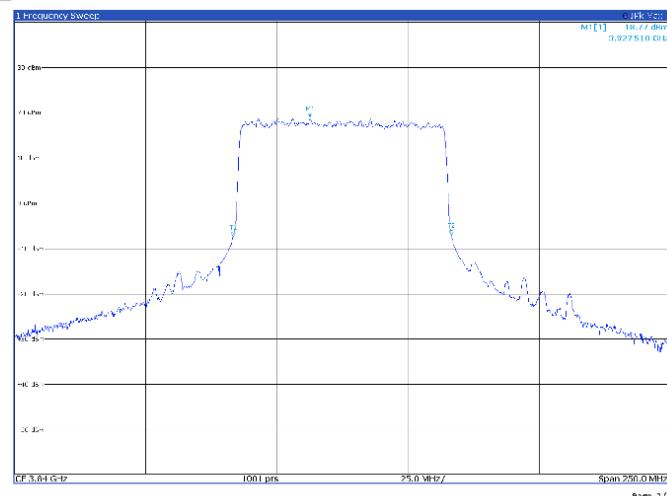
Type	Ref	Trc.	X-Value	V-Value	Function	Function Result
2	1	3.81652 GHz	18.90 dBm	rdB	rdB down BW	81.67 MHz
T1	1	3.89925 GHz	-7.01 dBm	-7.01 dBm	rdB down BW	
T2	1	3.90156 GHz	5.99 dBm	5.99 dBm	Q-factor	

TM3p1a, 80 MHz, low channel


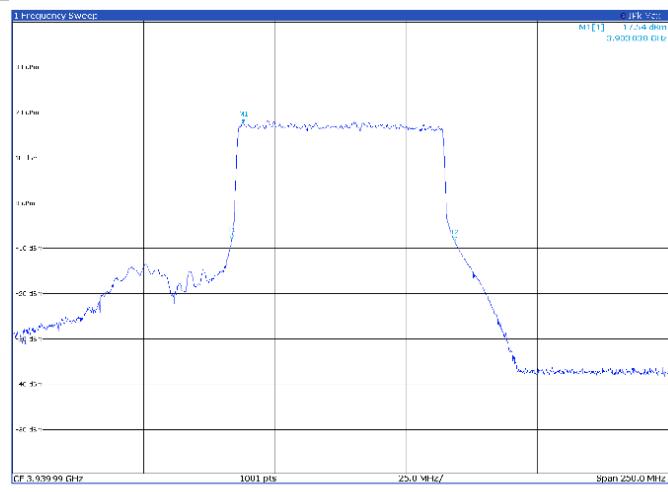
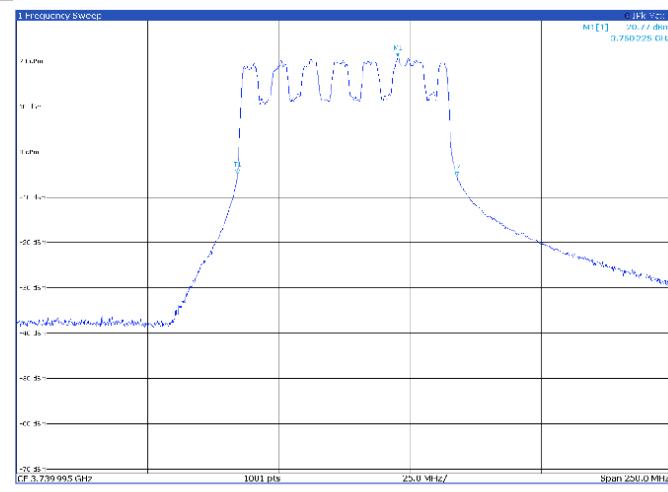
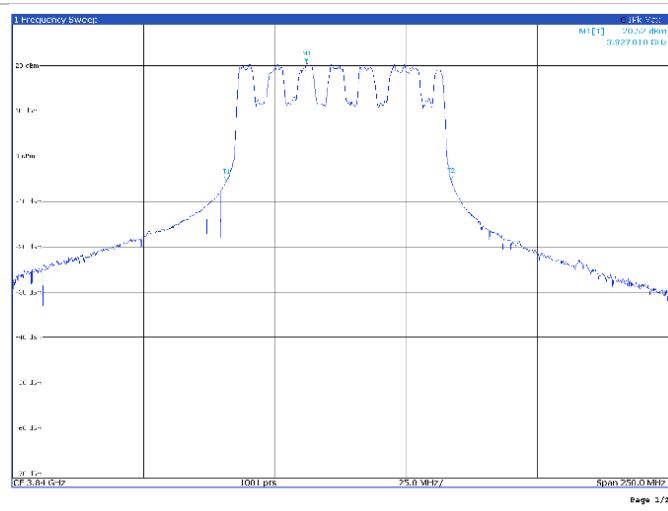
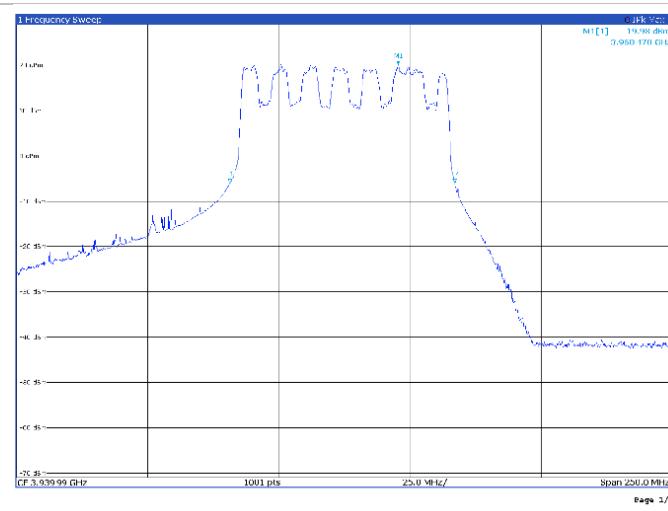
Type	Ref	Trc.	X-Value	V-Value	Function	Function Result
2	1	3.750735 GHz	19.00 dBm	rdB	rdB down BW	82.17 MHz
T1	1	3.800511 GHz	-7.01 dBm	-7.01 dBm	rdB down BW	
T2	1	3.830366 GHz	5.99 dBm	5.99 dBm	Q-factor	

TM3p1, 80 MHz, high channel


Type	Ref	Trc.	X-Value	V-Value	Function	Function Result
2	1	3.91626 GHz	18.51 dBm	rdB	rdB down BW	81.67 MHz
T1	1	3.89928 GHz	-7.52 dBm	-7.52 dBm	rdB down BW	
T2	1	3.90156 GHz	-7.78 dBm	-7.78 dBm	Q-factor	

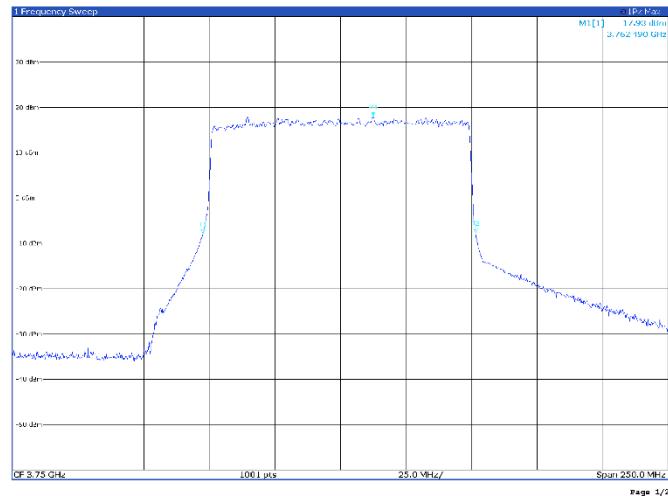
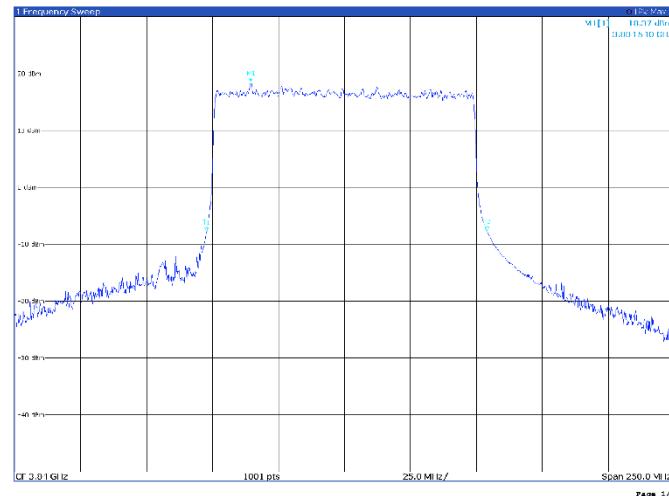
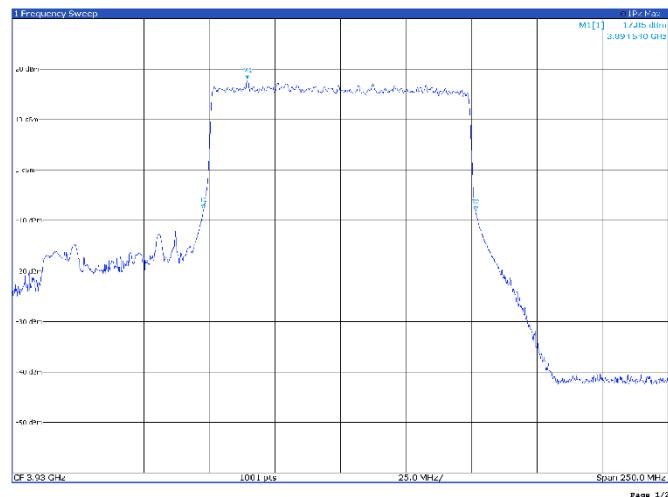
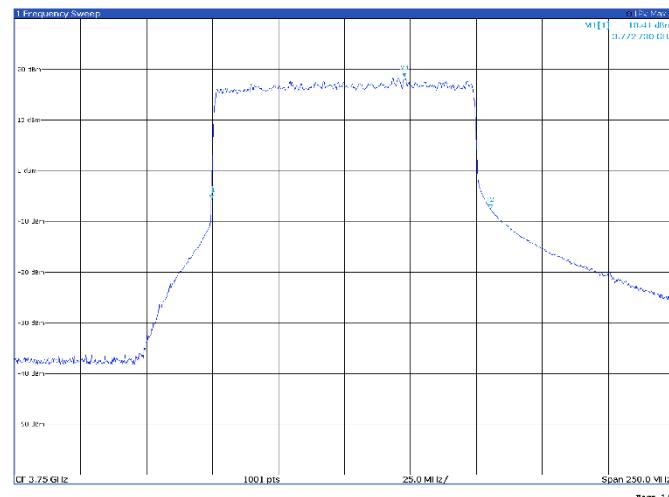
TM3p1a, 80 MHz, mid channel


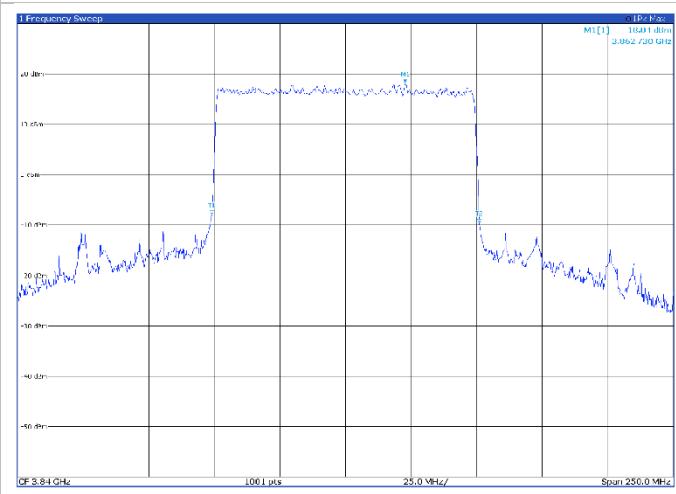
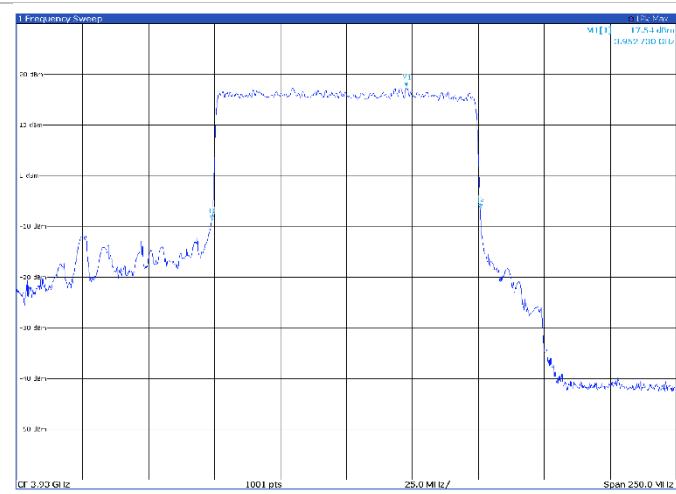
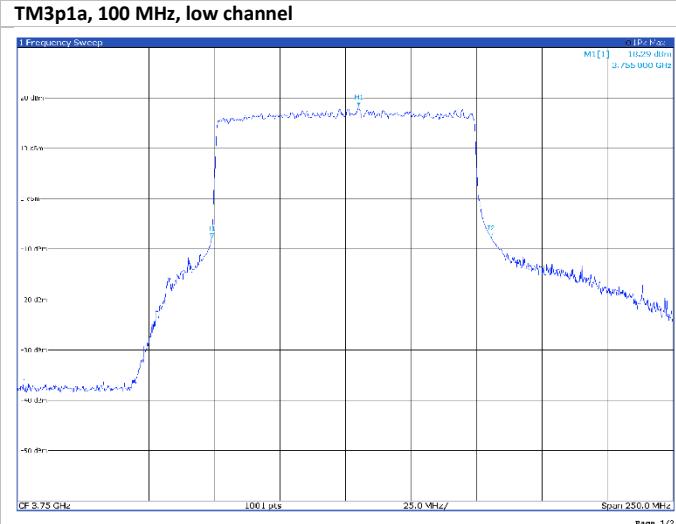
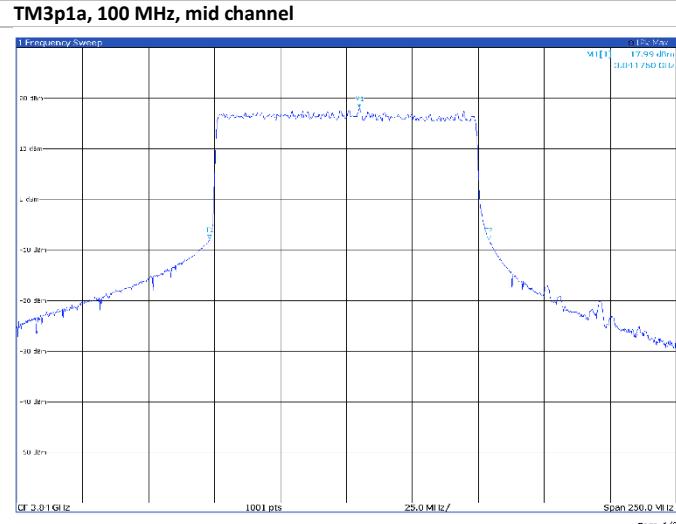
Type	Ref	Trc.	X-Value	V-Value	Function	Function Result
2	1	3.82751 GHz	18.77 dBm	rdB	rdB down BW	83.17 MHz
T1	1	3.89928 GHz	-7.52 dBm	-7.52 dBm	rdB down BW	
T2	1	3.90156 GHz	-7.78 dBm	-7.78 dBm	Q-factor	

TM3p1a, 80 MHz, high channel

TM3p3, 80 MHz, low channel

TM3p3, 80 MHz, mid channel

TM3p3, 80 MHz, high channel


Band n77 – 26 dB Occupied Bandwidth Antenna port 2

100 MHz

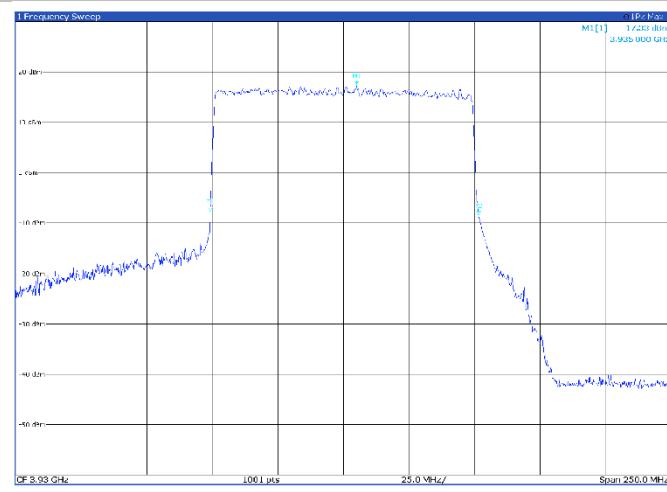
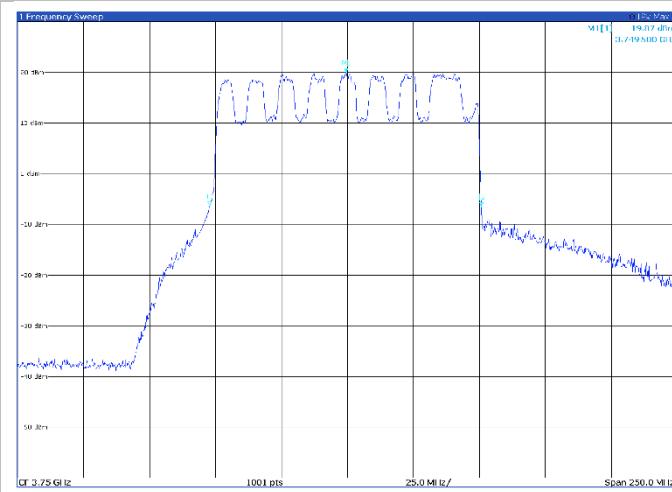
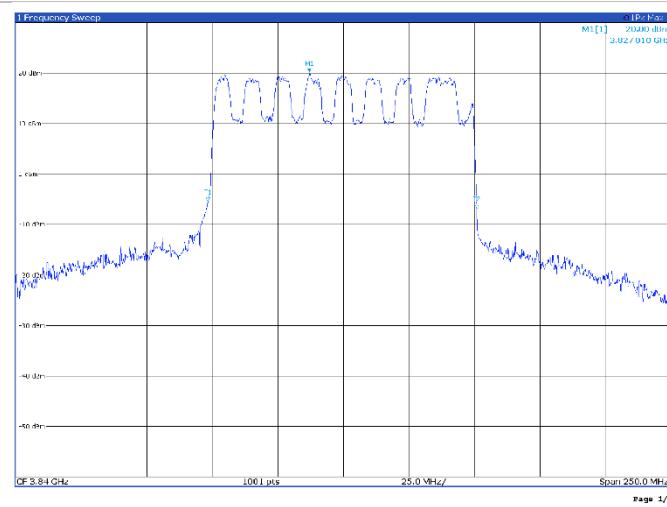
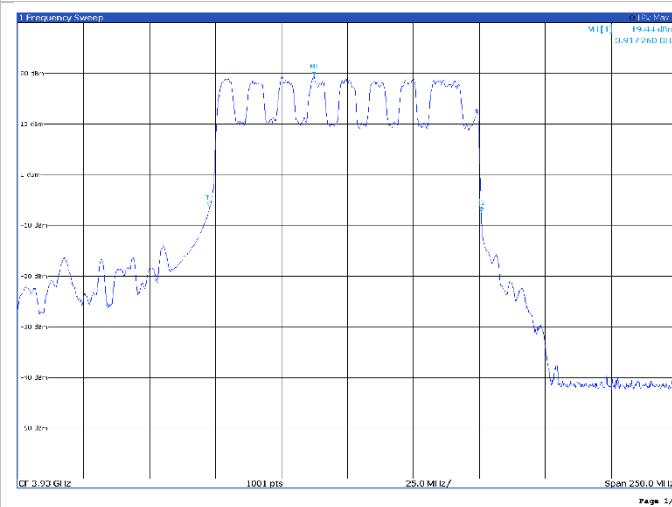
TM1.1, 100 MHz, low channel

TM1.1, 100 MHz, mid channel

TM1.1, 100 MHz, high channel

TM3p1, 100 MHz, low channel


TM3p1, 100 MHz, mid channel

TM3p1, 100 MHz, high channel

TM3p1a, 100 MHz, low channel

TM3p1a, 100 MHz, mid channel

2 Marker Table

Type	Ref	Trc	X Value	V Value	Function	Function Result
M1		1	3.86273 GHz	18.04 dBm	-7.37 dB	101.00 MHz
T1		1	3.86273 GHz	-7.37 dBm	-dB down BW	
T2		1	3.86273 GHz	-7.37 dBm	-20.0 ps	

2 Marker Table

Type	Ref	Trc	X Value	V Value	Function	Function Result
M1		1	3.95273 GHz	17.54 dBm	-7.52 dB	101.65 MHz
T1		1	3.95273 GHz	-7.52 dBm	-dB down BW	
T2		1	3.95273 GHz	-7.52 dBm	-20.0 ps	

TM3p1a, 100 MHz, high channel

TM3p3, 100 MHz, low channel

TM3p3, 100 MHz, mid channel

TM3p3, 100 MHz, high channel


8.4 FCC 27.50(j)(2) Output power

8.4.1 Definitions and limits

(j) The following power requirements apply to stations transmitting in the 3700-3980 MHz band:

(1) The power of each fixed or base station transmitting in the 3700-3980 MHz band and located in any county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, is limited to an equivalent isotropically radiated power (EIRP) of 3280 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.

(2) The power of each fixed or base station transmitting in the 3700-3980 MHz band and situated in any geographic location other than that described in paragraph (j)(1) of this section is limited to an EIRP of **1640 Watts/MHz. (62.15 dBm/MHz)** This limit applies to the aggregate power of all antenna elements in any given sector of a base station.

(3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(4) Equipment employed must be authorized in accordance with the provisions of § 27.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (j)(5) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

(5) Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, and any other relevant factors, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

8.4.2 Test summary

Test start date	August 19, 2024	Temperature	22 °C
Test end date	September 19, 2024	Air pressure	1001 mbar
Test engineer	D. Guarnone	Relative humidity	62%
Verdict	Pass		

8.4.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.2.4.5

Spectrum analyzer settings:

Resolution bandwidth	1 MHz
Video bandwidth	3 MHz
Frequency span	>= 1.5* OBW
Detector mode	Peak
Trace mode	Max Hold

This test was made across the conducted port and using a sensor power. An offset of 30 dB was added to the measurement to compensate the loss of the external 30 dB attenuator. Interconnecting cable losses were included as a transducer factor in the spectrum analyzer.

8.4.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.4.5 Test data

Band n77:

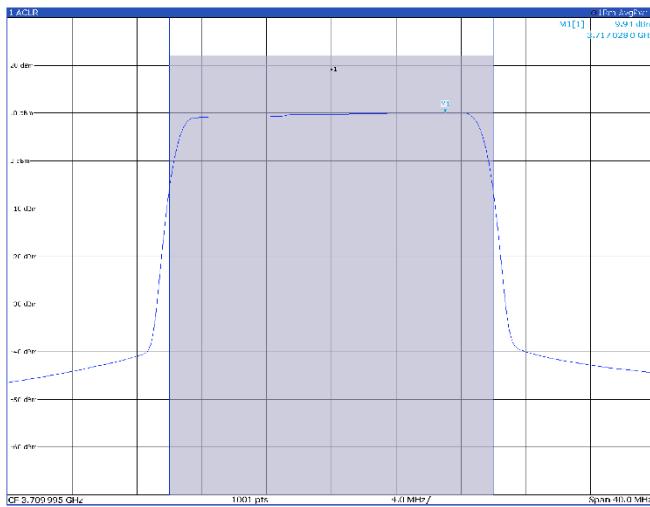
Modulation	OBW	Frequency	Measured Power Density (dBm/MHz) port 1	Measured Power Density (dBm/MHz) port 2	Antenna Gain Max (dBi)	Total EIRP Power Density (dBm/MHz)	Measured Power (dBm) port 1	Measured Power (dBm) port 2	Limits Power Density (dBm/MHz)	Margin (dB)
	(MHz)	(MHz)	(dBm/MHz)	(dBm/MHz)		(dBm/MHz)	(dBm)	(dBm)	(dBm/MHz)	
TM1.1	20	3709.995	9.94	11.51	4.3	18.11	22.0	24.3	62.1	-43.99
TM3p1	20	3709.995	10.00	11.65	4.3	18.21	22.3	23.8	62.1	-43.89
TM3p1a	20	3709.995	9.33	11.48	4.3	17.85	22.1	23.9	62.1	-44.25
TM3p3	20	3709.995	11.36	13.24	4.3	19.71	21.8	23.6	62.1	-42.39
TM1.1	20	3840.0	8.51	11.95	4.3	17.87	21.4	24.3	62.1	-44.23
TM3p1	20	3840.0	8.18	11.86	4.3	17.71	21.0	24.6	62.1	-44.39
TM3p1a	20	3840.0	8.59	11.92	4.3	17.88	21.0	24.4	62.1	-44.22
TM3p3	20	3840.0	10.54	13.59	4.3	19.64	21.2	24.2	62.1	-42.46
TM1.1	20	3970.0	8.67	10.78	4.3	17.16	21.1	23.1	62.1	-44.94
TM3p1	20	3970.0	8.52	11.04	4.3	17.27	20.9	23.3	62.1	-44.83
TM3p1a	20	3970.0	8.86	10.99	4.3	17.36	21.2	23.2	62.1	-44.74
TM3p3	20	3970.0	10.50	12.72	4.3	19.06	20.6	23.1	62.1	-43.04
TM1.1	40	3720.0	7.44	9.25	4.3	15.75	22.1	24.4	62.1	-46.35
TM3p1	40	3720.0	7.65	9.48	4.3	15.97	23.1	24.6	62.1	-46.13
TM3p1a	40	3720.0	7.04	9.16	4.3	15.54	22.1	24.0	62.1	-46.56
TM3p3	40	3720.0	9.18	11.30	4.3	17.68	21.7	23.5	62.1	-44.42
TM1.1	40	3840.0	5.88	9.28	4.3	15.21	21.1	24.4	62.1	-46.89
TM3p1	40	3840.0	5.31	8.73	4.3	14.66	21.0	24.2	62.1	-47.44
TM3p1a	40	3840.0	5.44	8.82	4.3	14.76	21.1	24.1	62.1	-47.34
TM3p3	40	3840.0	7.87	10.60	4.3	16.76	20.8	24.0	62.1	-45.34
TM1.1	40	3960.0	6.00	8.00	4.3	14.42	21.1	23.1	62.1	-47.68
TM3p1	40	3960.0	5.75	8.55	4.3	14.68	21.0	23.6	62.1	-47.42
TM3p1a	40	3960.0	5.66	8.38	4.3	14.54	21.0	23.8	62.1	-47.56
TM3p3	40	3960.0	7.97	9.95	4.3	16.38	20.7	23.1	62.1	-45.72
TM1.1	60	3729.99	5.59	6.64	4.3	13.46	22.2	23.8	62.1	-48.64
TM3p1	60	3729.99	5.16	7.18	4.3	13.60	22.4	23.8	62.1	-48.50
TM3p1a	60	3729.99	5.36	6.86	4.3	13.48	22.0	24.3	62.1	-48.62
TM3p3	60	3729.99	6.54	8.46	4.3	14.92	21.7	24.1	62.1	-47.18
TM1.1	60	3840.0	4.46	7.25	4.3	13.39	21.3	24.0	62.1	-48.71
TM3p1	60	3840.0	4.21	7.60	4.3	13.54	21.1	24.1	62.1	-48.56
TM3p1a	60	3840.0	4.15	7.17	4.3	13.23	21.1	24.0	62.1	-48.87
TM3p3	60	3840.0	6.06	8.59	4.3	14.82	21.1	23.6	62.1	-47.28
TM1.1	60	3949.995	4.75	7.41	4.3	13.59	21.2	23.5	62.1	-48.51
TM3p1	60	3949.995	4.55	6.88	4.3	13.18	21.3	23.0	62.1	-48.92
TM3p1a	60	3949.995	4.32	6.77	4.3	13.03	21.2	23.6	62.1	-49.07
TM3p3	60	3949.995	6.85	7.89	4.3	14.71	21.1	23.3	62.1	-47.39
TM1.1	80	3739.995	4.84	7.23	4.3	13.51	23.3	25.8	62.1	-48.59
TM3p1	80	3739.995	4.63	7.86	4.3	13.85	23.3	25.8	62.1	-48.25
TM3p1a	80	3739.995	4.58	7.57	4.3	13.64	23.1	25.8	62.1	-48.46
TM3p3	80	3739.995	7.06	9.55	4.3	15.79	23.4	25.7	62.1	-46.31
TM1.1	80	3840.0	4.58	7.43	4.3	13.55	22.4	25.6	62.1	-48.55
TM3p1	80	3840.0	4.53	7.45	4.3	13.54	22.6	25.7	62.1	-48.56
TM3p1a	80	3840.0	4.45	7.48	4.3	13.53	22.7	25.7	62.1	-48.57
TM3p3	80	3840.0	6.29	9.19	4.3	15.29	22.7	25.5	62.1	-46.81
TM1.1	80	3939.99	4.78	6.99	4.3	13.33	22.8	25.1	62.1	-48.77
TM3p1	80	3939.99	4.75	7.04	4.3	13.35	22.8	25.1	62.1	-48.75
TM3p1a	80	3939.99	4.67	7.04	4.3	13.33	22.8	25.1	62.1	-48.77
TM3p3	80	3939.99	6.7	8.97	4.3	15.29	22.8	25.1	62.1	-46.81

TM1.1	100	3750.0	3.69	6.19	4.3	12.43	23.1	25.6	62.1	-49.67
TM3p1	100	3750.0	3.84	6.49	4.3	12.67	23.1	25.7	62.1	-49.43
TM3p1a	100	3750.0	3.82	6.65	4.3	12.77	23.2	25.7	62.1	-49.33
TM3p3	100	3750.0	6.07	8.52	4.3	14.78	23.2	25.7	62.1	-47.32
TM1.1	100	3840.0	3.06	6.17	4.3	12.20	22.5	25.6	62.1	-49.90
TM3p1	100	3840.0	3.26	6.34	4.3	12.38	22.6	25.7	62.1	-49.72
TM3p1a	100	3840.0	3.21	6.38	4.3	12.39	22.5	25.7	62.1	-49.71
TM3p3	100	3840.0	5.39	8.44	4.3	14.49	22.6	25.7	62.1	-47.61
TM1.1	100	3930.0	3.58	5.7	4.3	12.08	22.9	25.1	62.1	-50.02
TM3p1	100	3930.0	3.76	5.78	4.3	12.20	22.9	25.1	62.1	-49.90
TM3p1a	100	3930.0	3.7	5.89	4.3	12.24	22.8	25.1	62.1	-49.86
TM3p3	100	3930.0	5.83	7.95	4.3	14.33	22.9	25.1	62.1	-47.77

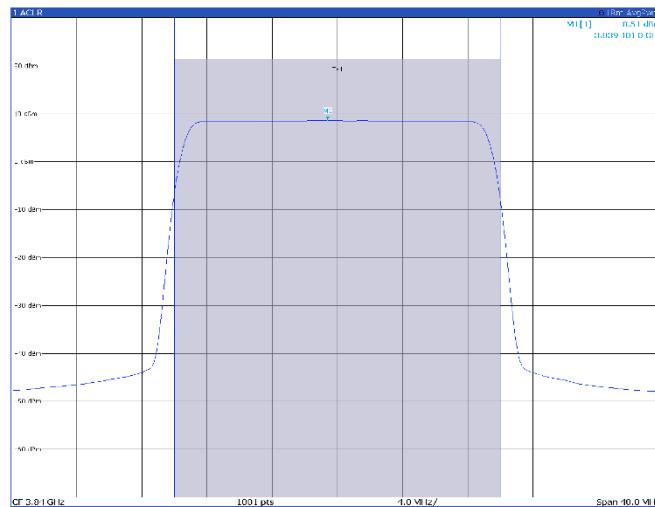
Antenna port 1

Band n77 - Output power Antenna port 1

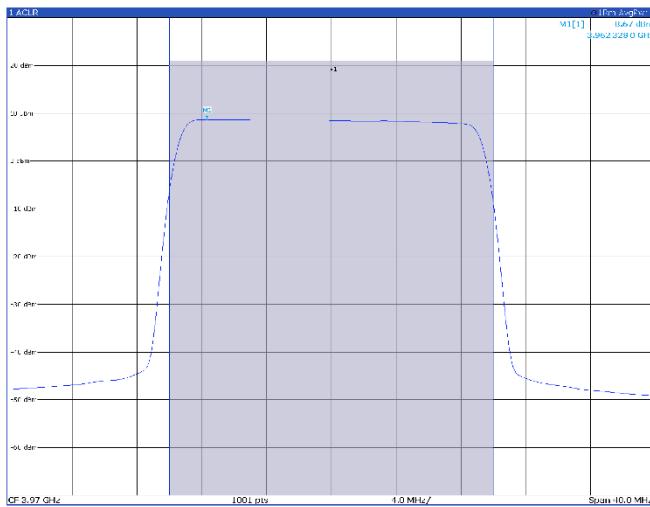
20 MHz

TM1.1, 20 MHz, low channel


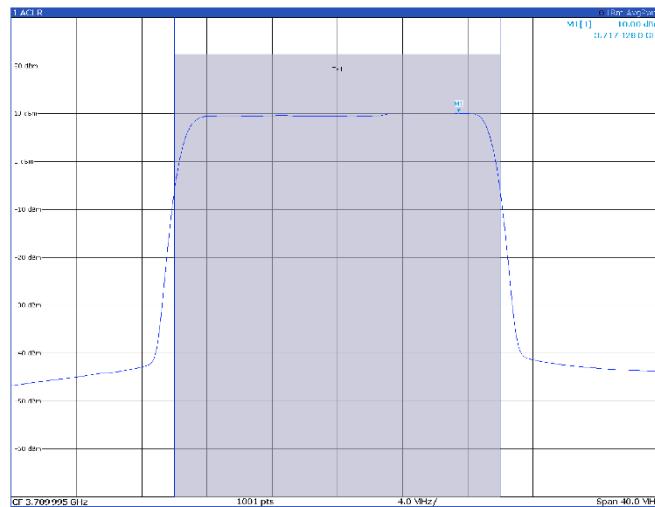
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
x1 (TxP)	50.000 MHz		22.03 dBm	
x2 (TxR)				
x3 (Int)				

TM1.1, 20 MHz, mid channel


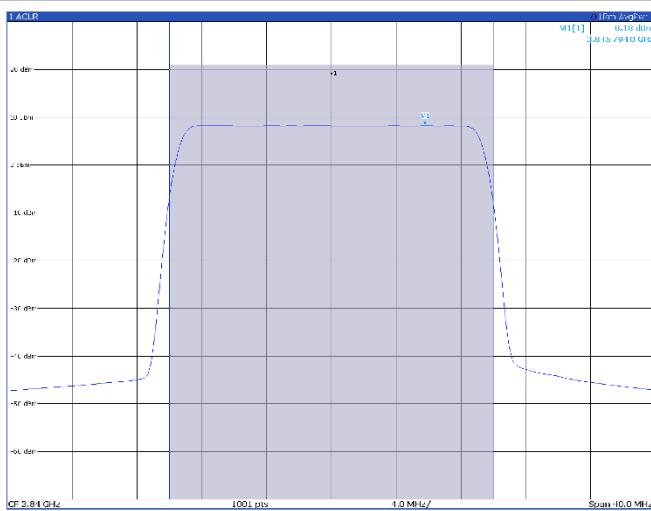
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
x1 (TxP)	50.000 MHz		22.03 dBm	
x2 (TxR)				
x3 (Int)				

TM1.1, 20 MHz, high channel


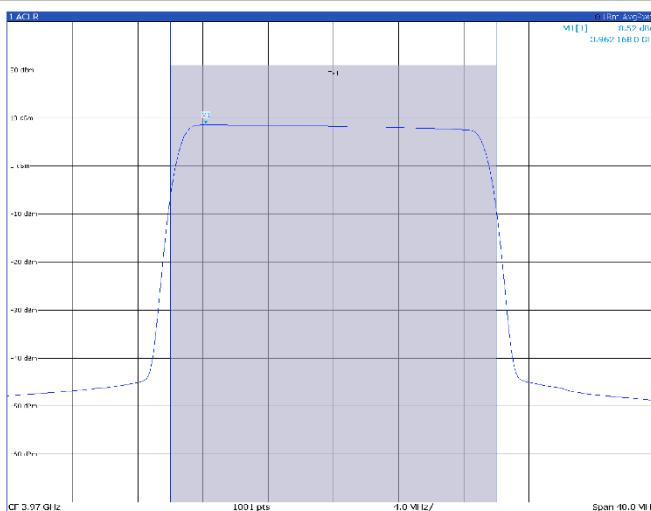
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
x1 (TxP)	50.000 MHz		21.05 dBm	
x2 (TxR)			21.05 dBm	
x3 (Int)				

TM3p1, 20 MHz, low channel


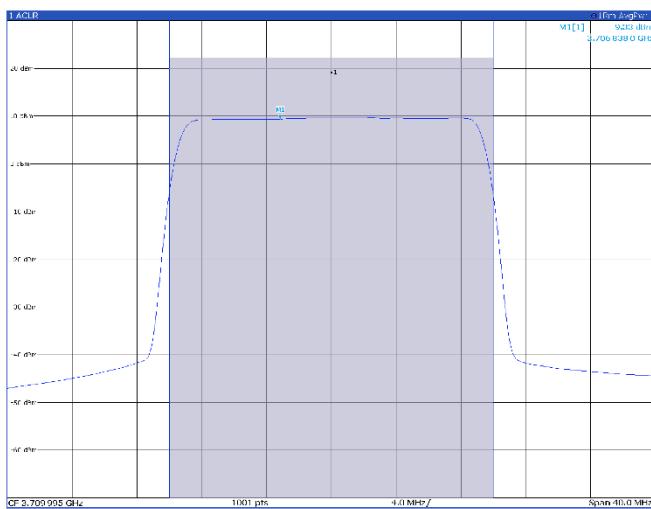
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
x1 (TxP)	50.000 MHz		22.32 dBm	
x2 (TxR)			22.32 dBm	
x3 (Int)				

TM3p1, 20 MHz, mid channel


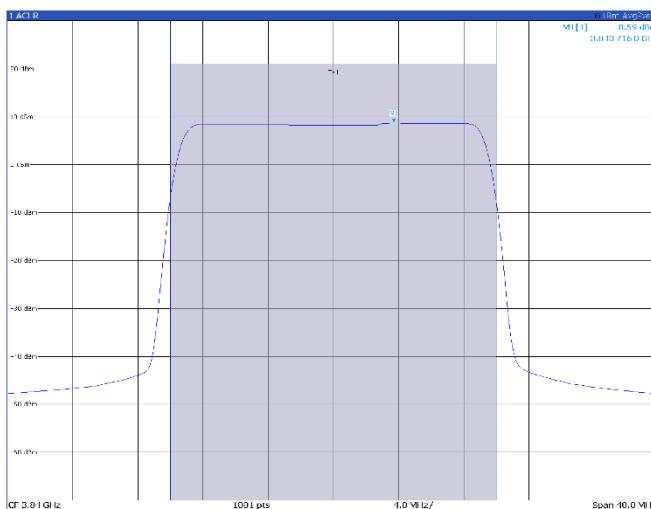
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
1:1 (Tx)	20.000 MHz	Offset	21.00 dBm
1:1 (Tx)	20.000 MHz	Power	21.00 dBm

TM3p1, 20 MHz, high channel


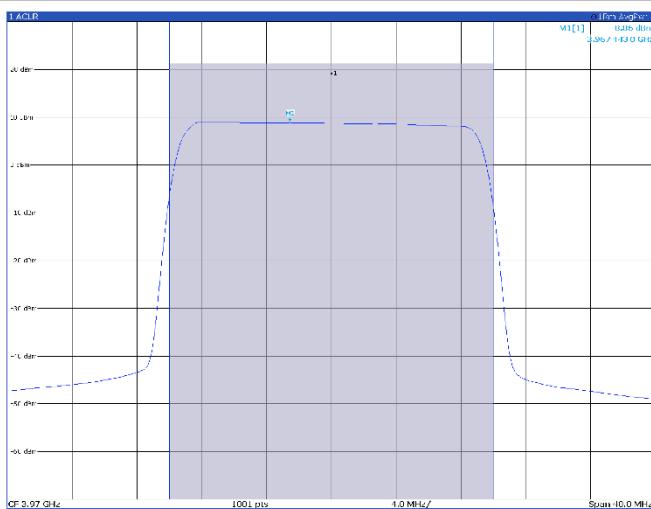
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
1:1 (Tx)	20.000 MHz	Offset	20.91 dBm
1:1 (Tx)	20.000 MHz	Power	20.91 dBm

TM3p1a, 20 MHz, low channel


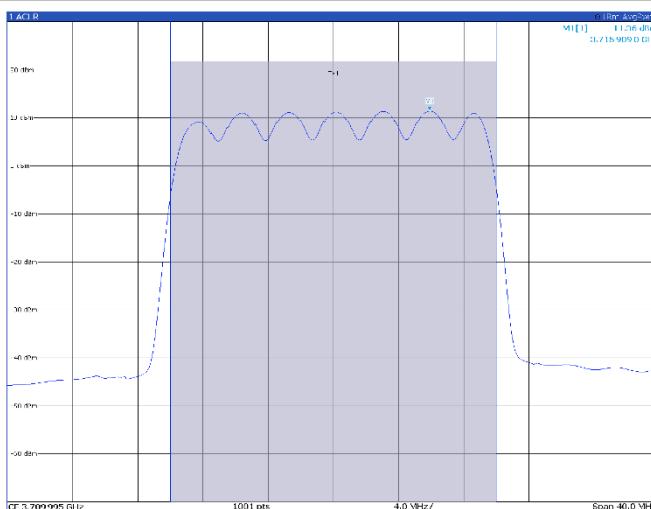
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
1:1 (Tx)	20.000 MHz	Offset	22.42 dBm
1:1 (Tx)	20.000 MHz	Power	22.42 dBm

TM3p1a, 20 MHz, mid channel


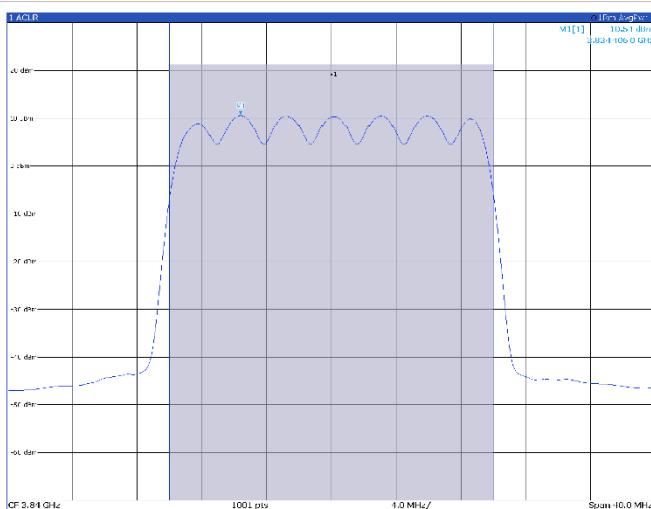
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
1:1 (Tx)	20.000 MHz	Offset	21.04 dBm
1:1 (Tx)	20.000 MHz	Power	21.04 dBm

TM3p1a, 20 MHz, high channel


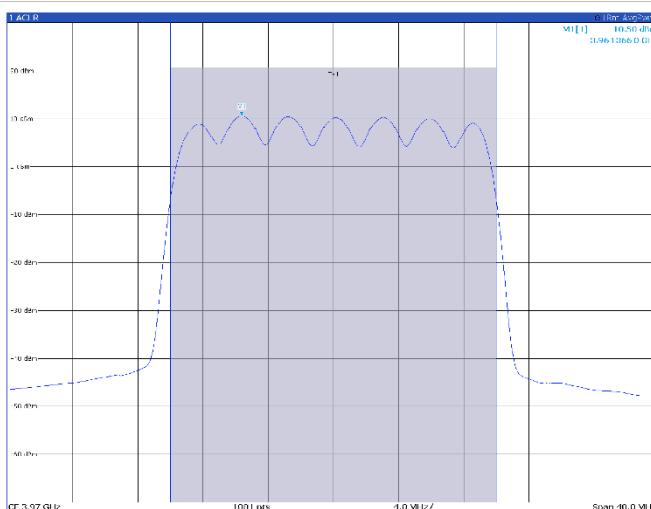
2 Result Summary			
Channel	Bandwidth	Offset	Power
3.97 (Tx)	20.000 MHz		21.17 dBm
			21.17 dBm

TM3p3, 20 MHz, low channel


2 Result Summary			
Channel	Bandwidth	Offset	Power
3.70995 (Tx)	20.000 MHz		21.76 dBm
			21.76 dBm

TM3p3, 20 MHz, mid channel


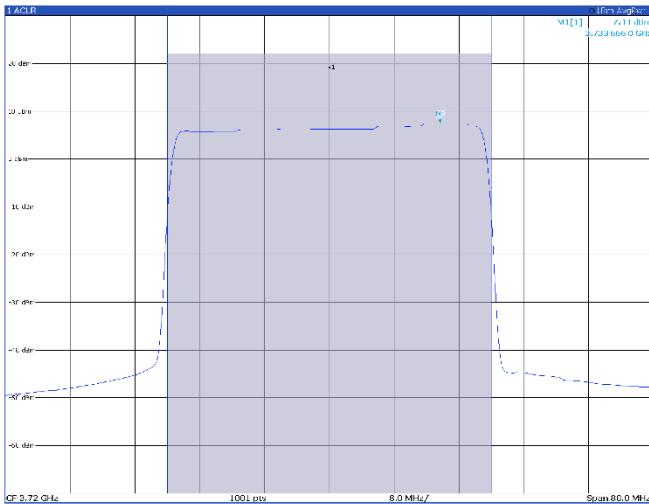
2 Result Summary			
Channel	Bandwidth	Offset	Power
3.84 (Tx)	20.000 MHz		21.20 dBm
			21.20 dBm

TM3p3, 20 MHz, high channel


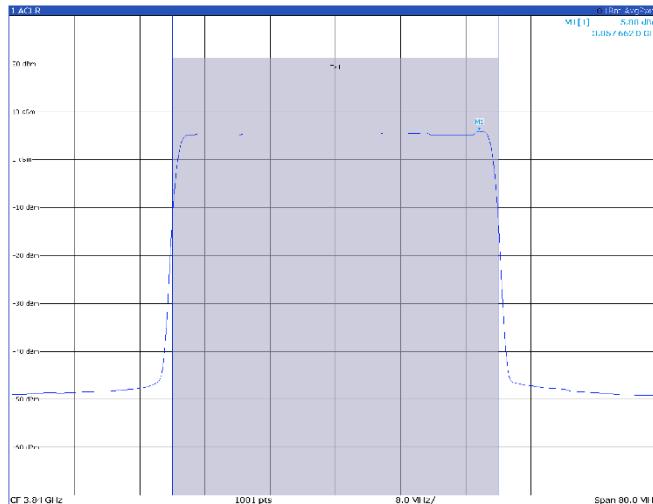
2 Result Summary			
Channel	Bandwidth	Offset	Power
3.97 (Tx)	10.500 MHz		20.59 dBm
			20.59 dBm

Band n77 - Output power Antenna port 1

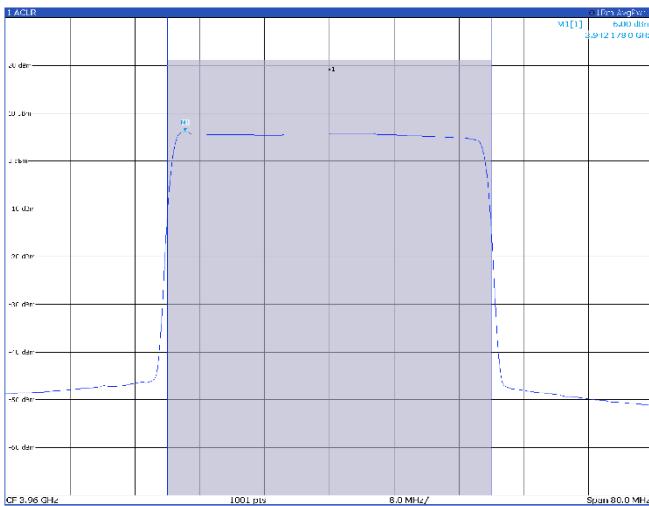
40 MHz

TM1.1, 40 MHz, low channel


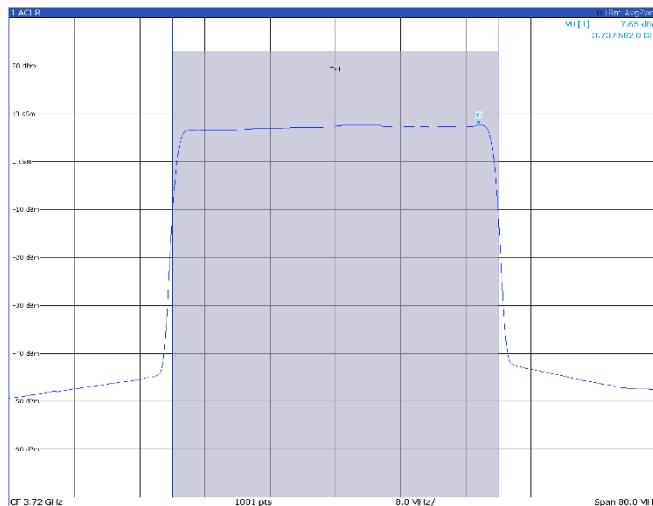
2 Result Summary			
Channel	Bandwidth	Offset	Power
1:1 (PDP)	40.000 MHz	CF 3.72 GHz	22.06 dBm
1:1 (Total)			22.06 dBm

TM1.1, 40 MHz, mid channel


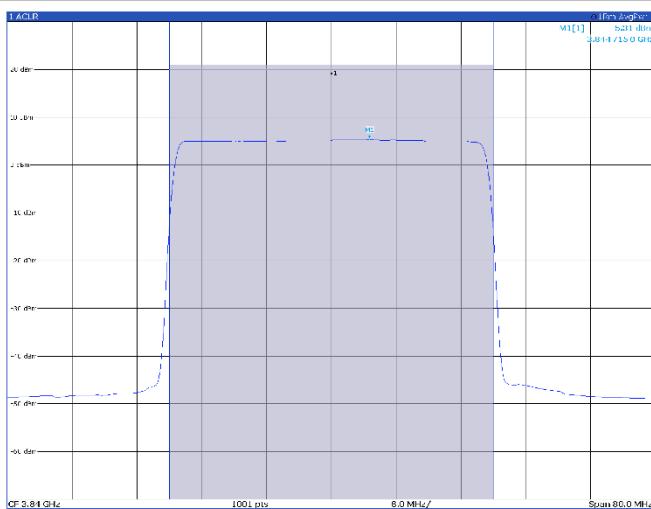
2 Result Summary			
Channel	Bandwidth	Offset	Power
1:1 (PDP)	40.000 MHz	CF 3.72 GHz	21.13 dBm
1:1 (Total)			21.13 dBm

TM1.1, 40 MHz, high channel


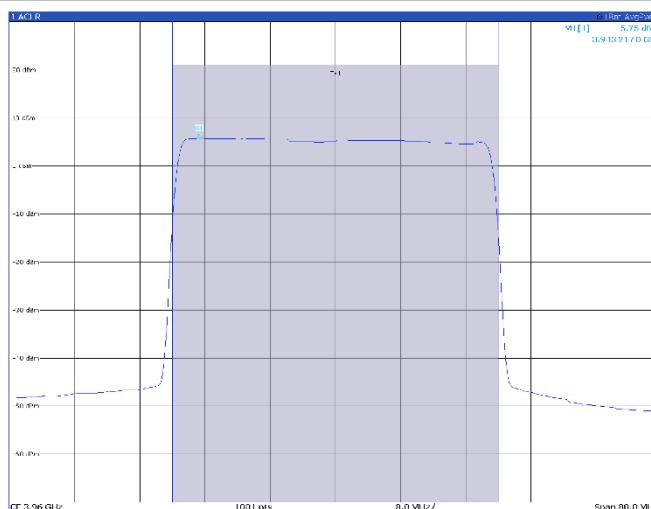
2 Result Summary			
Channel	Bandwidth	Offset	Power
1:1 (PDP)	40.000 MHz	CF 3.72 GHz	22.06 dBm
1:1 (Total)			22.06 dBm

TM3p1, 40 MHz, low channel


2 Result Summary			
Channel	Bandwidth	Offset	Power
1:1 (PDP)	40.000 MHz	CF 3.72 GHz	21.13 dBm
1:1 (Total)			21.13 dBm

TM3p1, 40 MHz, mid channel


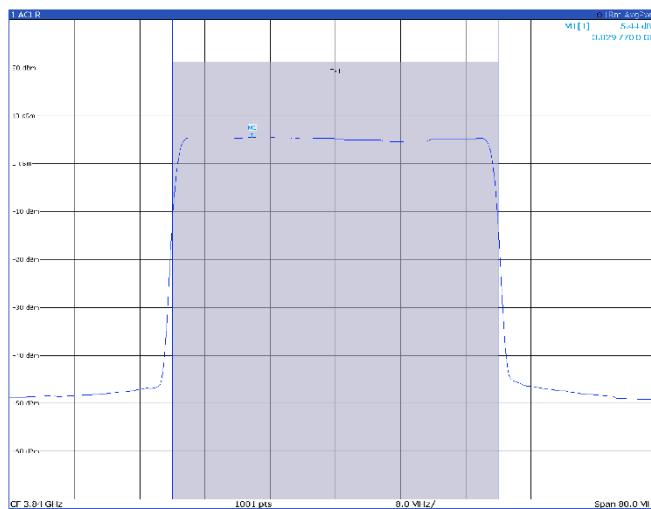
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p1	40.000 MHz	Offset 20.98 dBm	Power 20.98 dBm
Tx Total			

TM3p1, 40 MHz, high channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p1	40.000 MHz	Offset 20.98 dBm	Power 20.98 dBm
Tx Total			

TM3p1a, 40 MHz, low channel

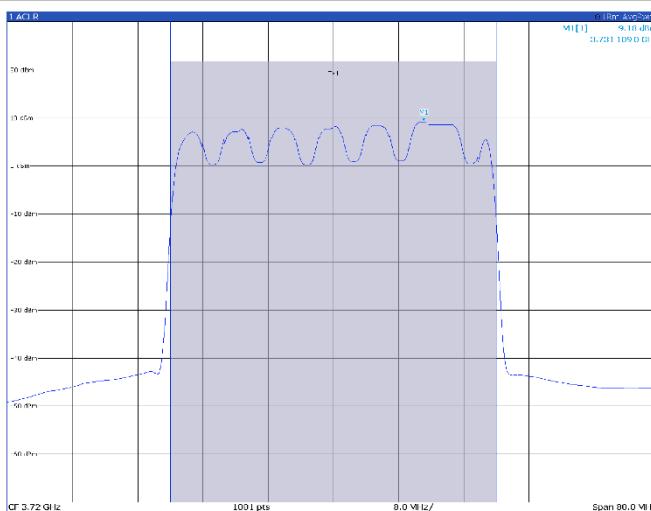

2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p1a	40.000 MHz	Offset 22.12 dBm	Power 22.12 dBm
Tx Total			

TM3p1a, 40 MHz, mid channel


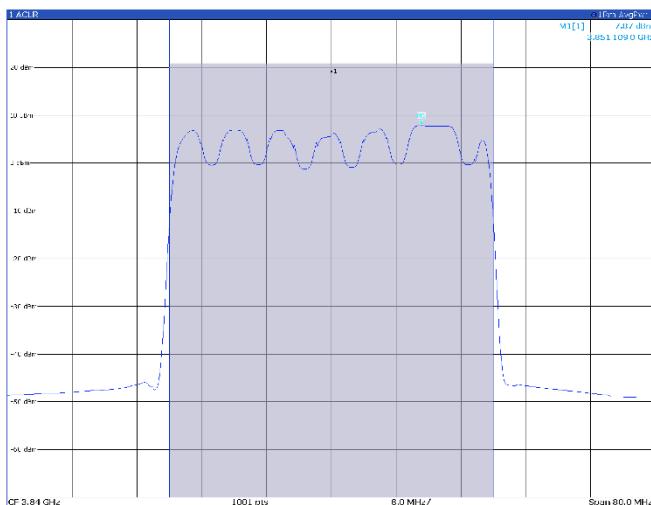
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p1a	40.000 MHz	Offset 21.06 dBm	Power 21.06 dBm
Tx Total			

TM3p1a, 40 MHz, high channel

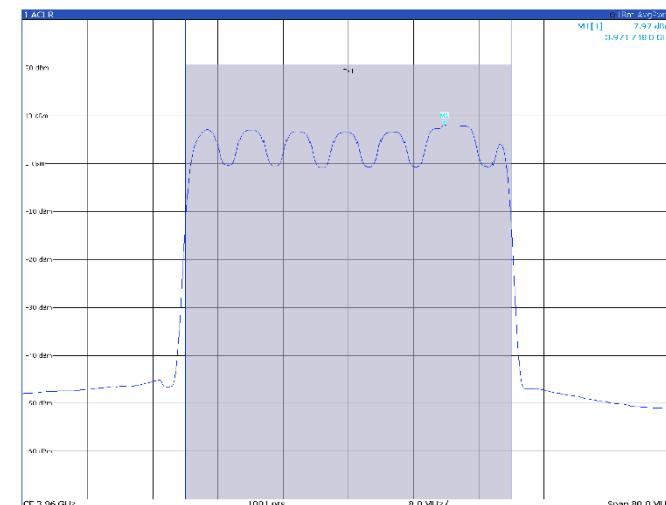

2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
c1 (P-OFDM)	40.00 MHz	Offset Tx Total	21.00 dBm 21.00 dBm

TM3p3, 40 MHz, low channel
TM3p3, 40 MHz, low channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
c2 (S-OFDM)	40.00 MHz	Offset Tx Total	21.72 dBm 21.72 dBm

TM3p3, 40 MHz, mid channel


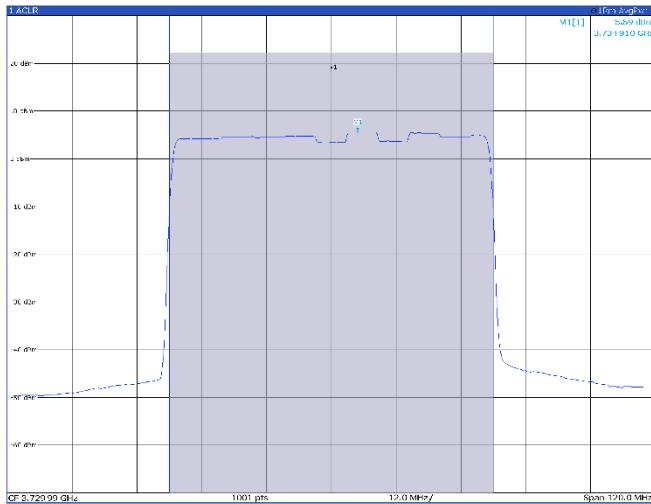
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
c1 (P-OFDM)	40.00 MHz	Offset Tx Total	20.80 dBm 20.80 dBm



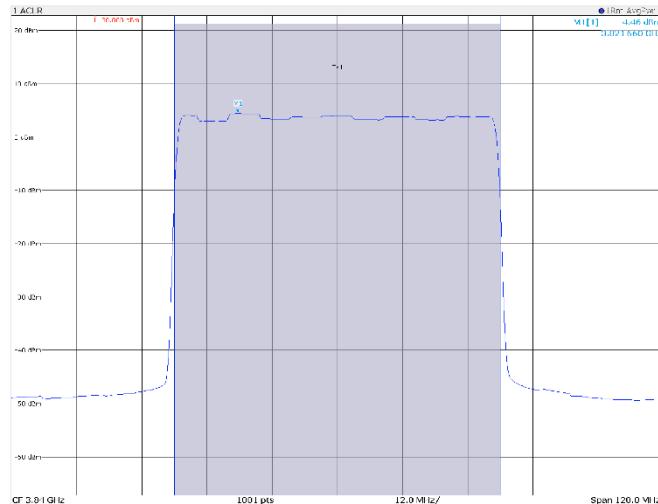
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
c2 (S-OFDM)	40.00 MHz	Offset Tx Total	20.66 dBm 20.66 dBm

Band n77 - Output power Antenna port 1

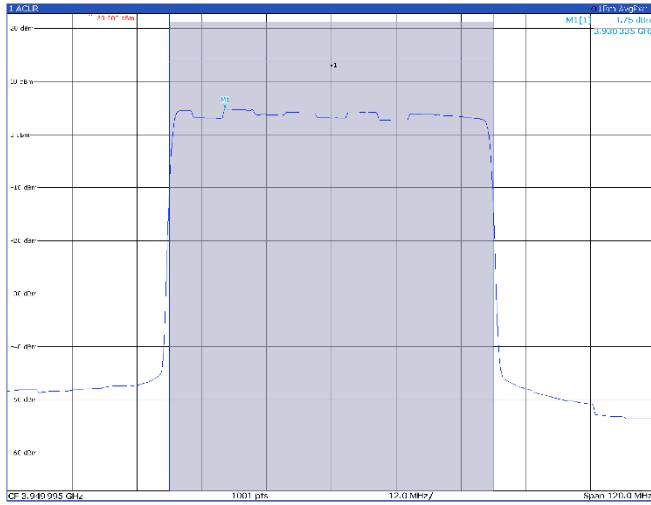
60 MHz

TM1.1, 60 MHz, low channel


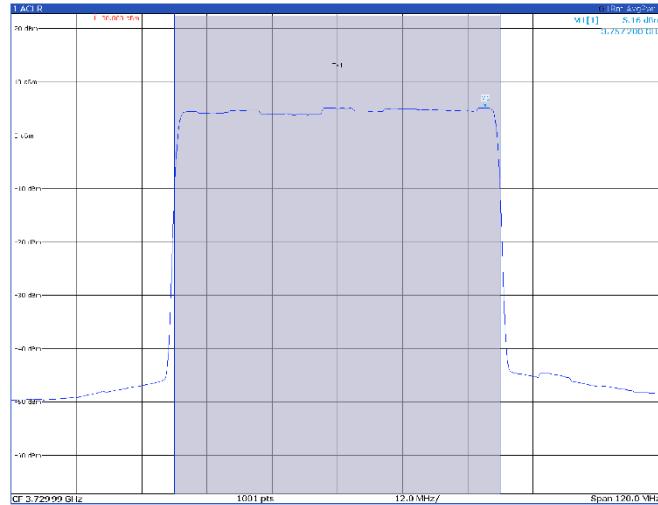
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power
1:1 (90%)	50.000 Mhz		22.24 dBm
Tx Total			22.24 dBm

TM1.1, 60 MHz, mid channel


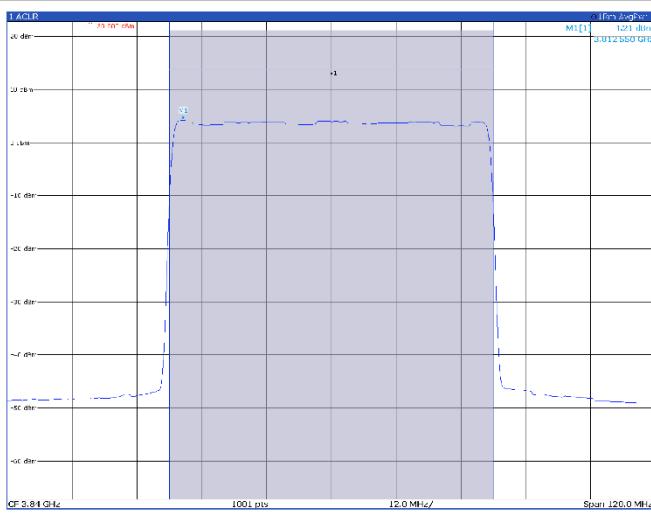
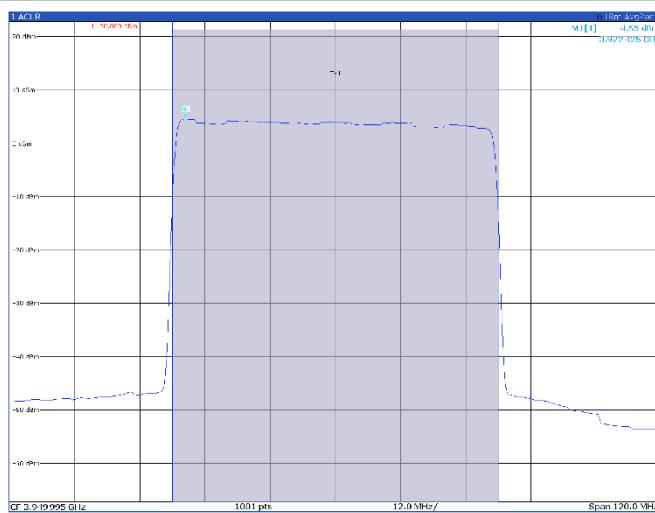
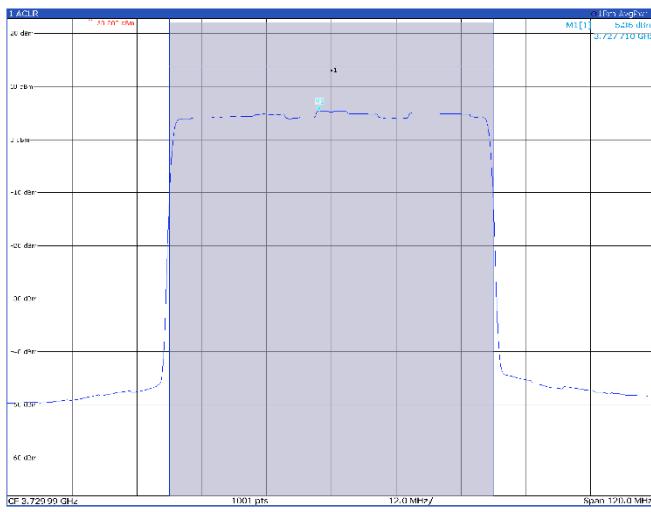
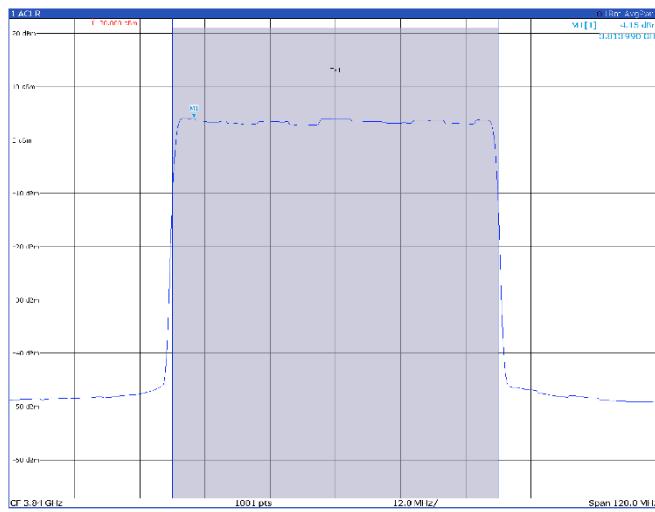
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power
1:1 (2:1)	50.000 Mhz		21.26 dBm
Tx Total			21.26 dBm

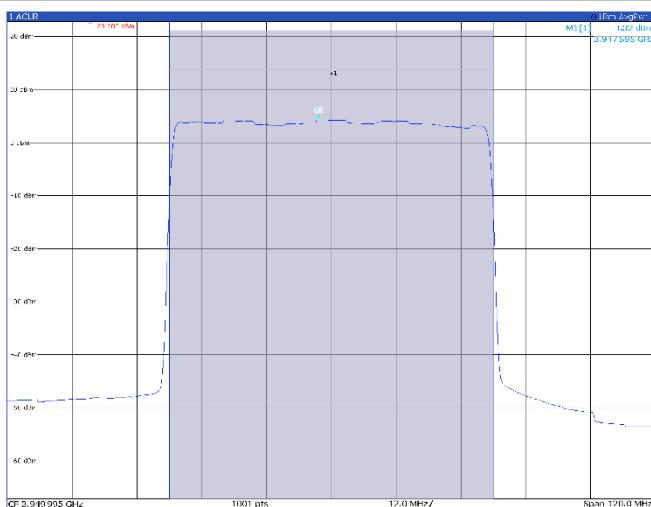
TM1.1, 60 MHz, high channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power
1:1 (90%)	50.000 Mhz		21.24 dBm
Tx Total			21.24 dBm

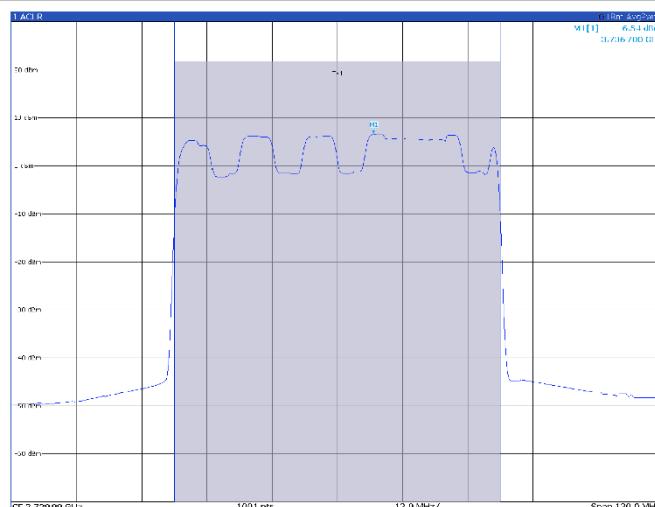
TM3p1, 60 MHz, low channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power
1:1 (2:1)	50.000 Mhz		22.42 dBm
Tx Total			22.42 dBm

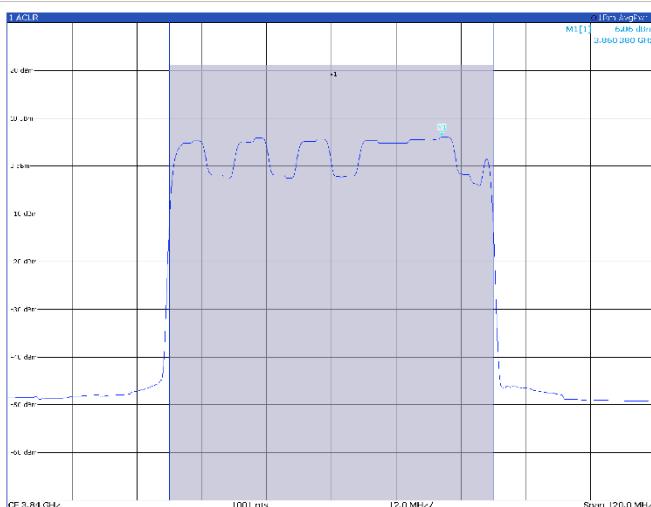
TM3p1, 60 MHz, mid channel

TM3p1, 60 MHz, high channel

TM3p1a, 60 MHz, low channel

TM3p1a, 60 MHz, mid channel


TM3p1a, 60 MHz, high channel


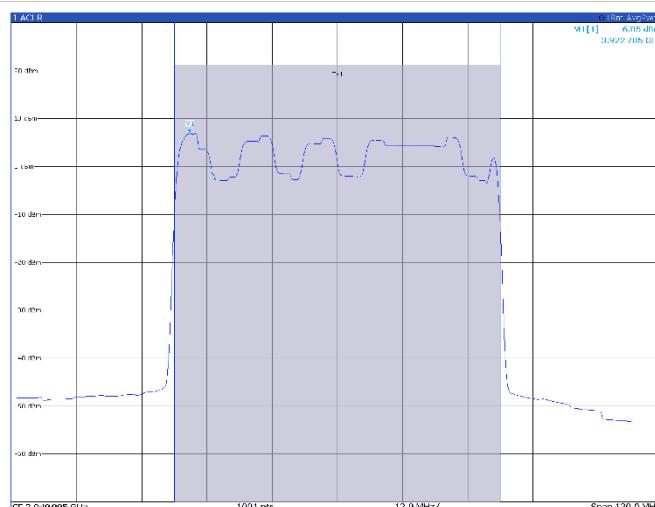
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
≥ 1 ($\geq f_1$) Tx Total	50.000 MHz		21.16 dBm 21.16 dBm		

TM3p3, 60 MHz, low channel


2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
≥ 1 ($\geq f_1$) Tx Total	50.000 MHz		21.66 dBm 21.66 dBm		

TM3p3, 60 MHz, mid channel


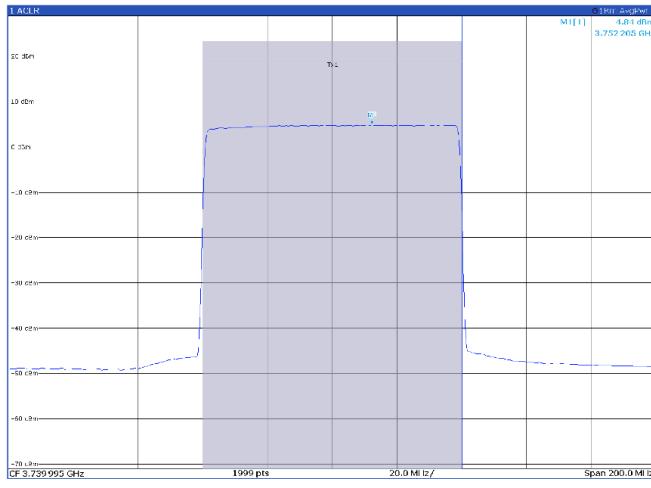
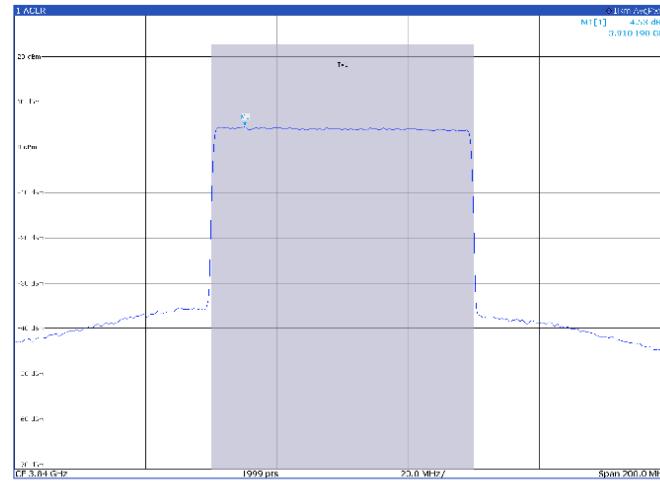
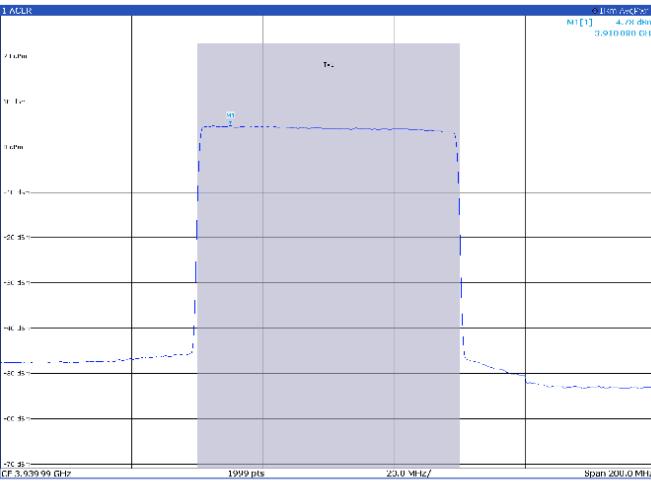
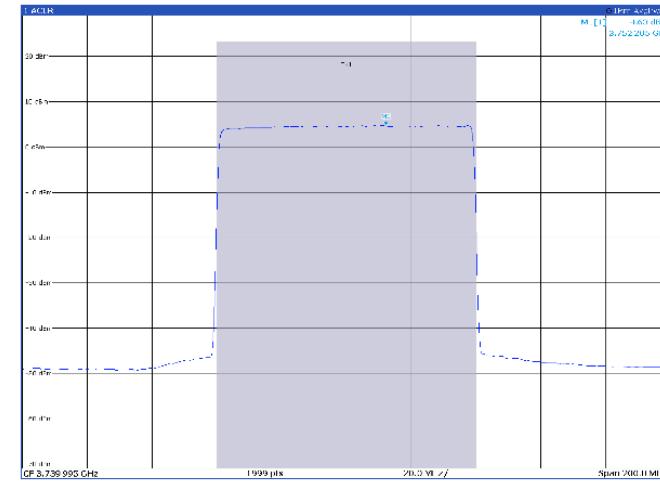
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
≥ 1 ($\geq f_1$) Tx Total	50.000 MHz		21.13 dBm 21.13 dBm		

TM3p3, 60 MHz, high channel


2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
≥ 1 ($\geq f_1$) Tx Total	50.000 MHz		21.07 dBm 21.07 dBm		

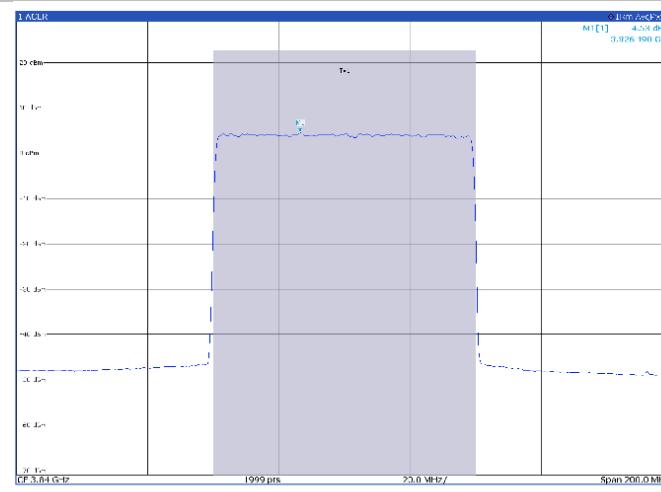
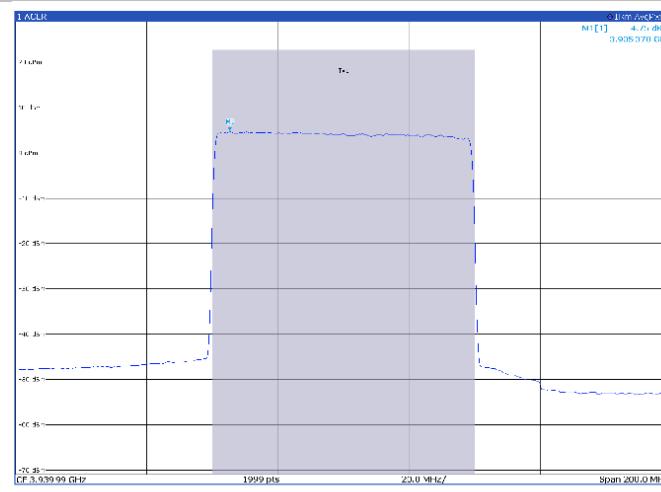
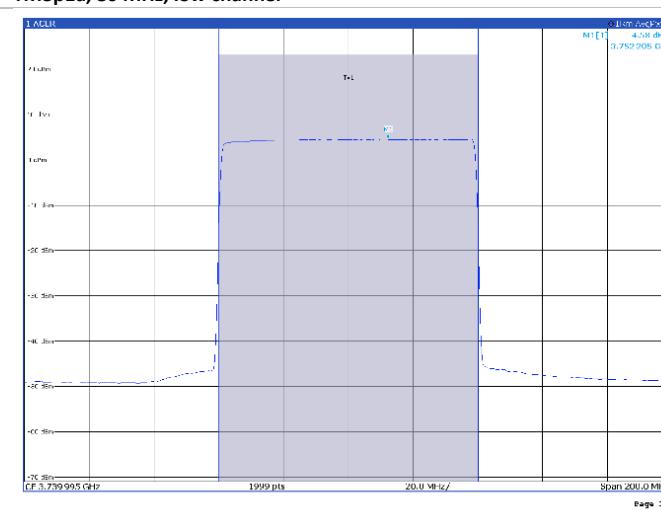
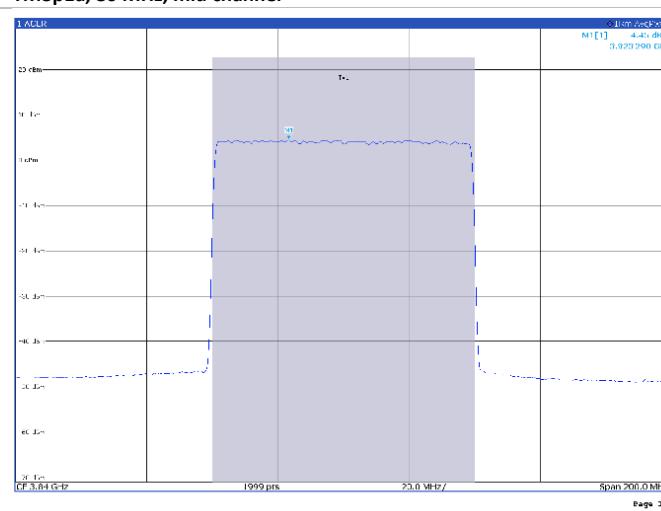
Band n77 - Output power Antenna port 1

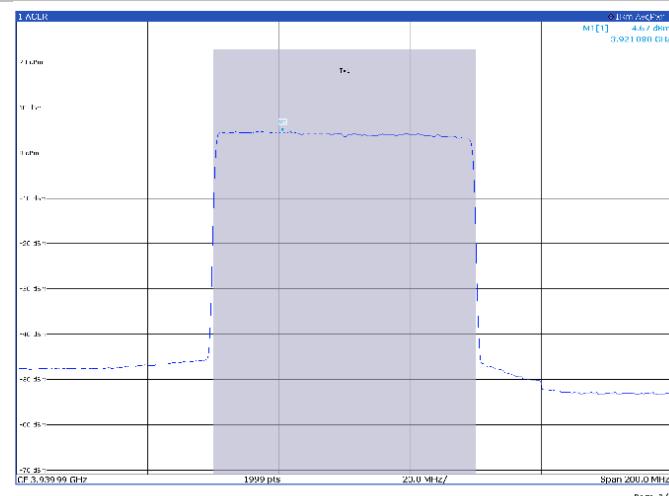
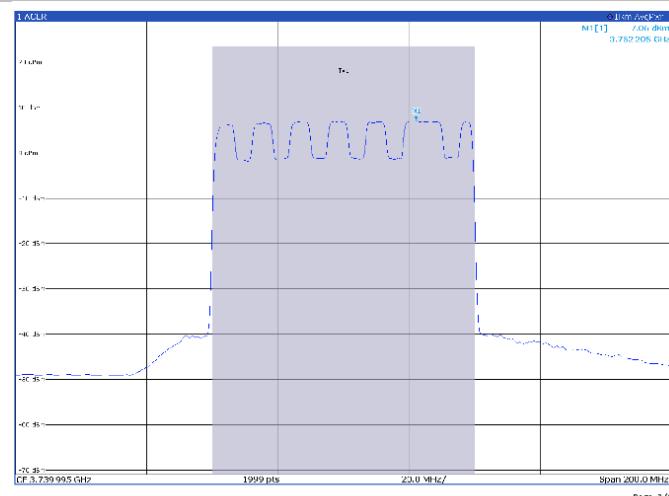
80 MHz

TM1.1, 80 MHz, low channel

TM1.1, 80 MHz, mid channel

TM1.1, 80 MHz, high channel

TM3p1, 80 MHz, low channel


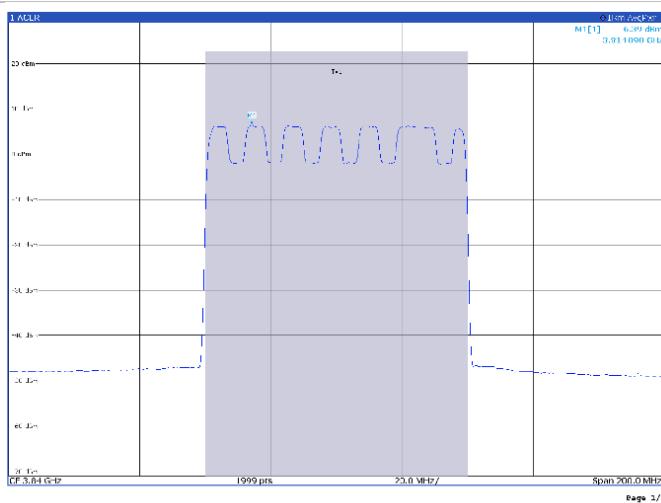
2 Result Summary			
Channel	Bandwidth	Offset	Power
Tx1 (Tx1)	80,000 MHz		23.29 dBm
Tx Total			23.29 dBm

2 Result Summary			
Channel	Bandwidth	Offset	Power
Tx1 (Tx1)	80,000 MHz		23.29 dBm
Tx Total			23.29 dBm

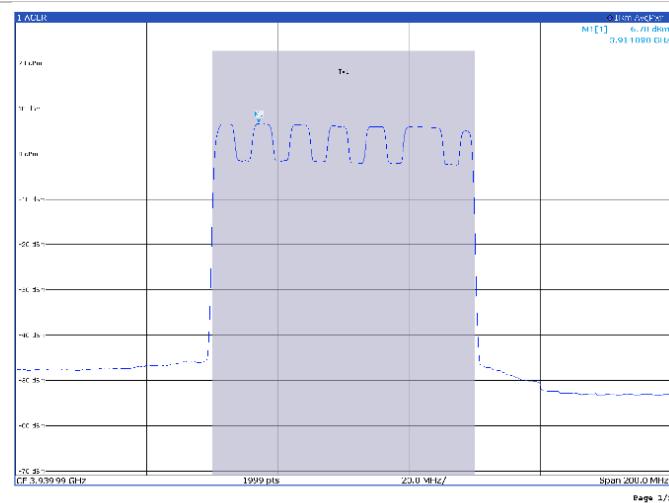
TM3p1, 80 MHz, mid channel

TM3p1, 80 MHz, high channel

TM3p1a, 80 MHz, low channel

TM3p1a, 80 MHz, mid channel


TM3p1a, 80 MHz, high channel

TM3p3, 80 MHz, low channel

2 Result Summary

Channel	Bandwidth	Offset	Power
1, TxD	80,000 Hz		22.84 dBm
1, TxD	80,000 Hz		22.84 dBm

TM3p3, 80 MHz, mid channel

2 Result Summary

Channel	Bandwidth	Offset	Power
1, TxD	80,000 Hz		22.84 dBm
1, TxD	80,000 Hz		22.84 dBm

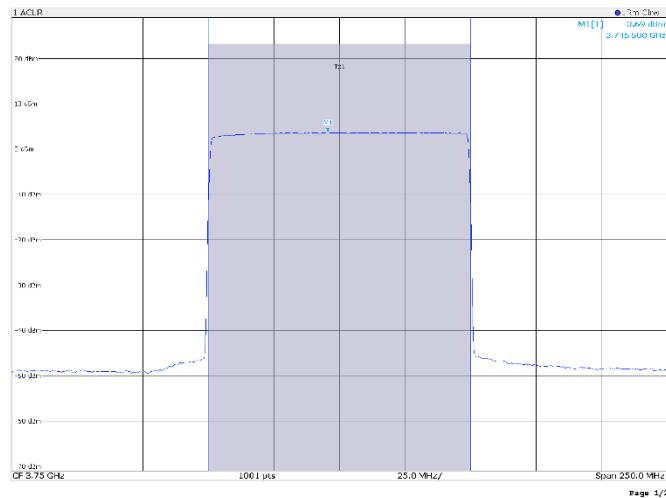
TM3p3, 80 MHz, high channel

2 Result Summary

Channel	Bandwidth	Offset	Power
1, TxD	80,000 Hz		22.66 dBm
1, TxD	80,000 Hz		22.66 dBm

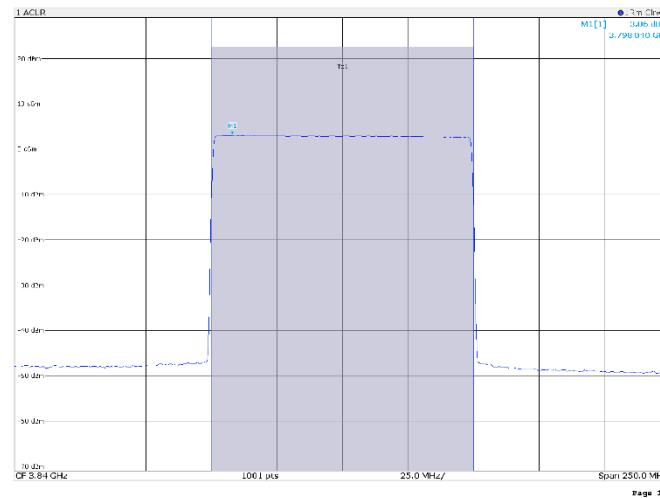
Band n77 - Output power Antenna port 1

100 MHz

TM1.1, 100 MHz, low channel



TM1.1, 100 MHz, mid channel



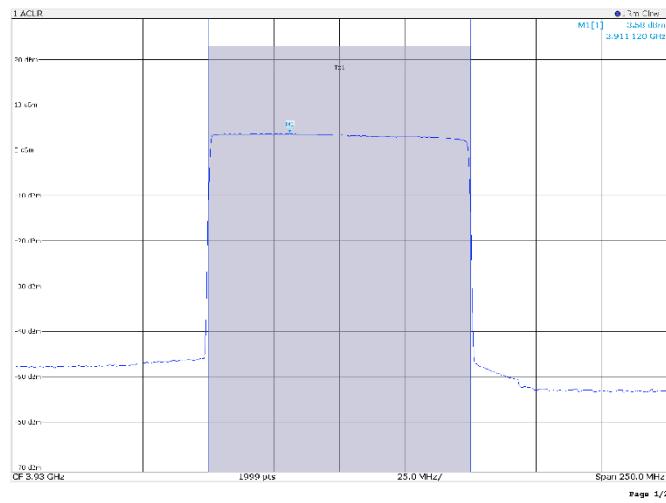
2 Result Summary

Channel	Bandwidth	Offset	Power
1x_60f;	100.000 MHz		23.13 dBm
2_00f;			23.13 dBm

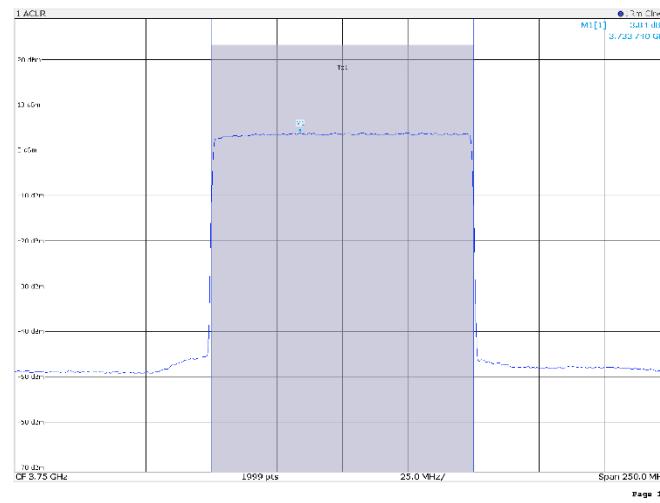
EU TRA/LTE Square/BRC

Channel	Bandwidth	Offset	Power
1x_60f;	100.000 MHz		22.52 dBm
2_00f;			22.52 dBm

TM1.1, 100 MHz, high channel



TM3p1, 100 MHz, low channel

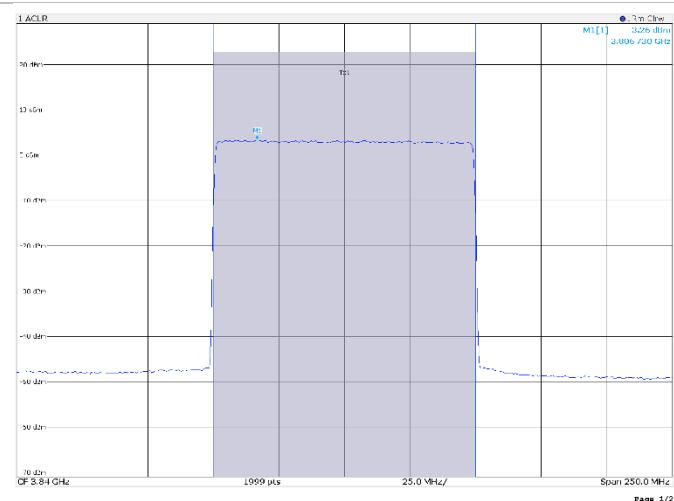
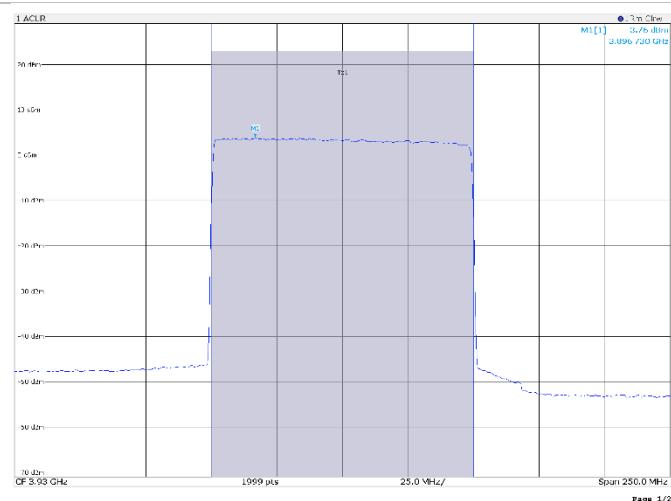


2 Result Summary

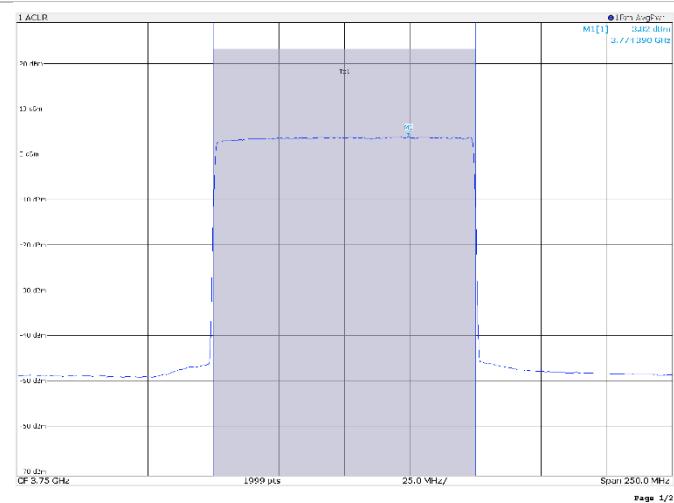
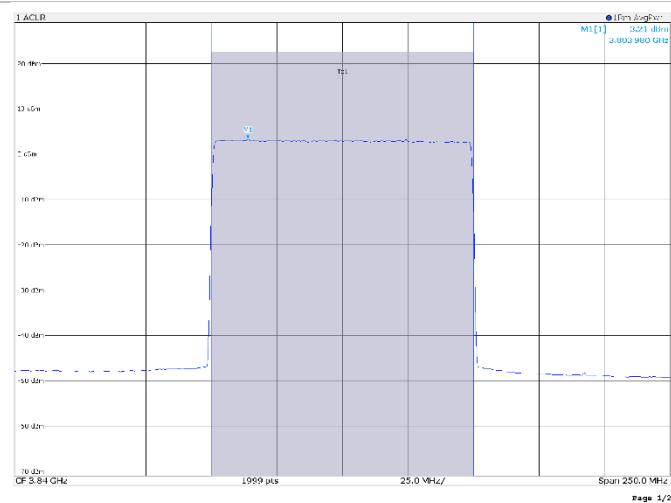
Channel	Bandwidth	Offset	Power
1x_10f;	100.000 MHz		22.85 dBm
2_00f;			22.85 dBm

EU TRA/LTE Square/BRC

Channel	Bandwidth	Offset	Power
1x_10f;	100.000 MHz		22.13 dBm
2_00f;			22.13 dBm

TM3p1, 100 MHz, mid channel

TM3p1, 100 MHz, high channel

2 Result Summary

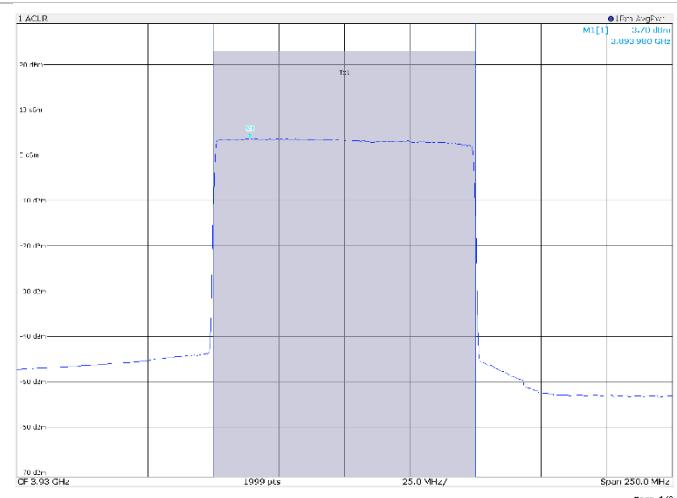
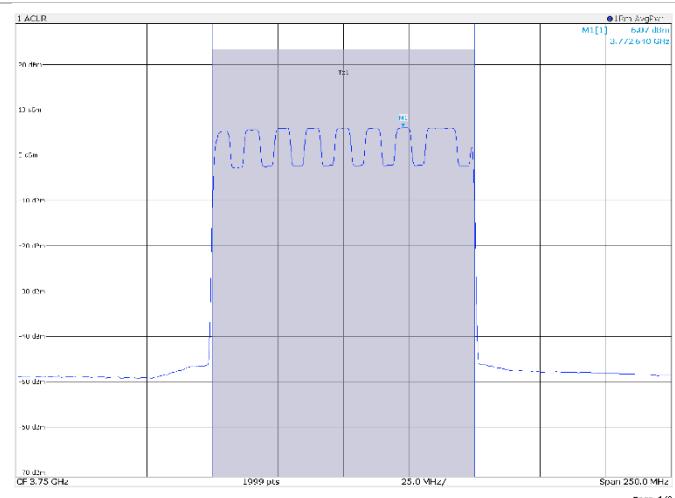
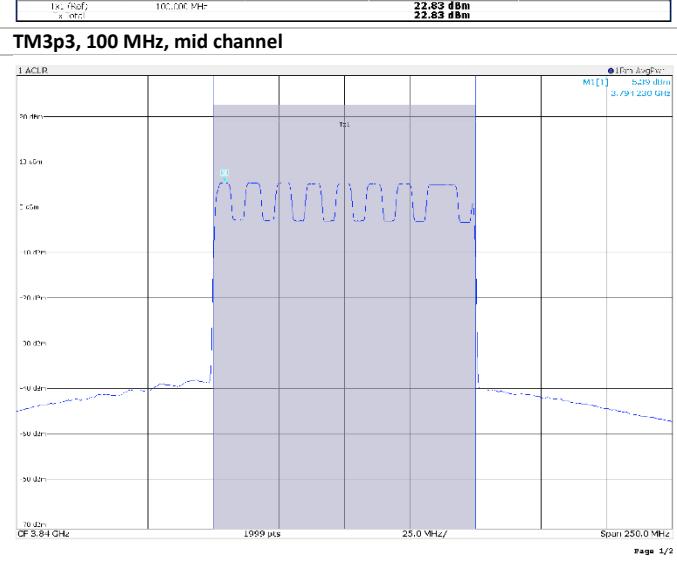
Channel	Bandwidth	EUTRA/LTE Square/BRC	Offset	Power
1x (88f)	100.00 MHz			22.59 dBm
1x (80f)				22.59 dBm

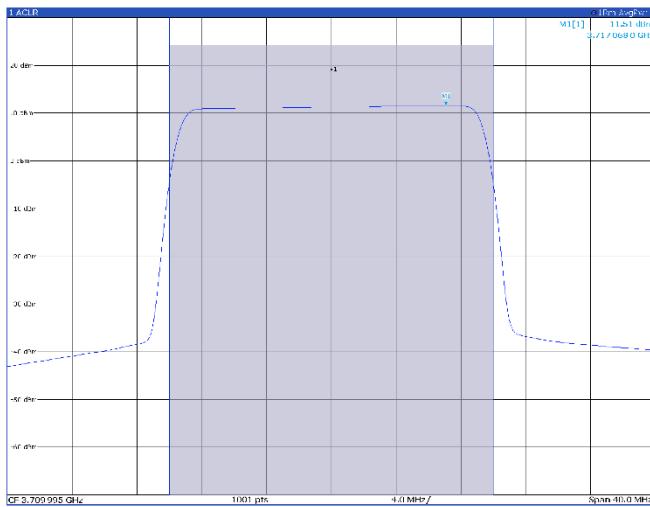
TM3p1a, 100 MHz, low channel

TM3p1a, 100 MHz, mid channel

2 Result Summary

Channel	Bandwidth	EUTRA/LTE Square/BRC	Offset	Power
1x (88f)	100.00 MHz			23.17 dBm
1x (80f)				23.17 dBm

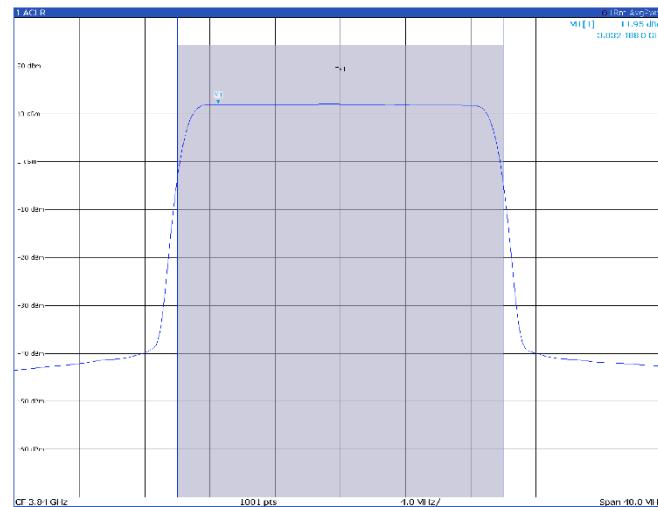
2 Result Summary

Channel	Bandwidth	EUTRA/LTE Square/BRC	Offset	Power
1x (88f)	100.00 MHz			22.53 dBm
1x (80f)				22.53 dBm

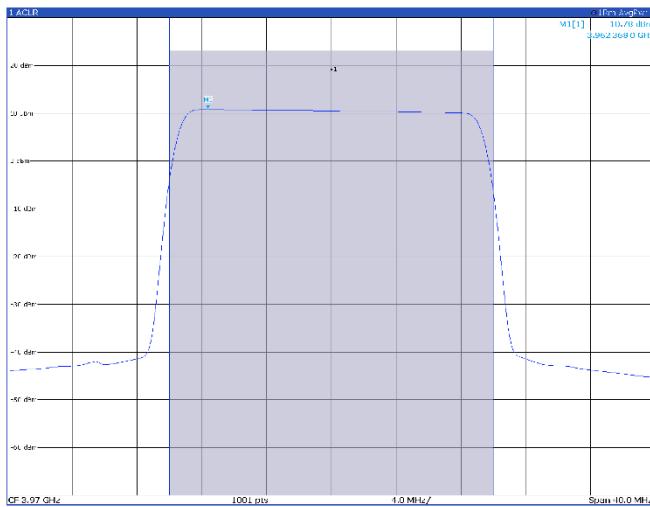
TM3p1a, 100 MHz, high channel

TM3p3, 100 MHz, low channel

TM3p3, 100 MHz, mid channel

TM3p3, 100 MHz, high channel


Antenna port 2
Band n77 - Output power Antenna port 2
20 MHz
TM1.1, 20 MHz, low channel


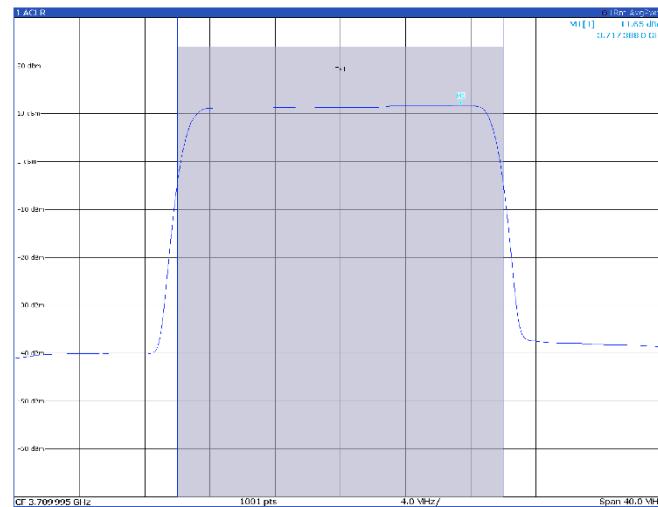
2 Result Summary		EUTRA/LTE Square/DRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
z1 (TxP)	50.000 MHz	z1	24.26 dBm	
Tx Total				

TM1.1, 20 MHz, mid channel


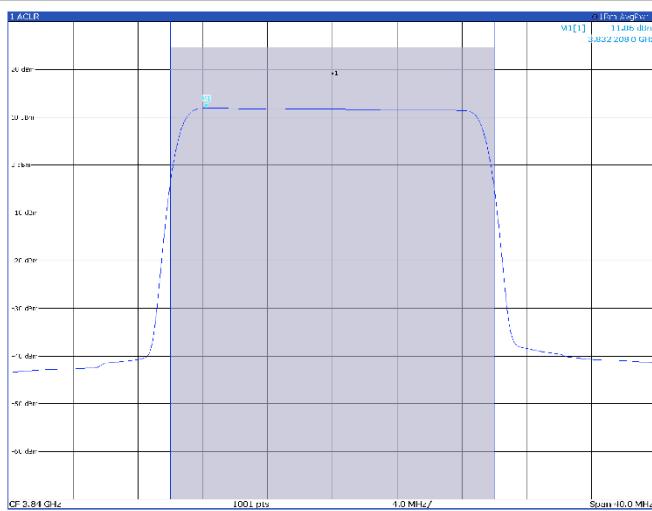
2 Result Summary		EUTRA/LTE Square/DRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
z1 (TxP)	20.000 MHz	z1	24.32 dBm	
Tx Total				

TM1.1, 20 MHz, high channel


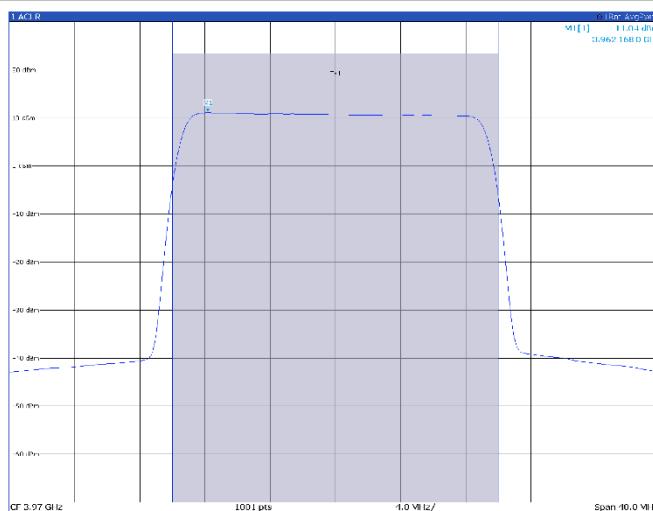
2 Result Summary		EUTRA/LTE Square/DRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
z1 (TxP)	50.000 MHz	z1	23.05 dBm	
Tx Total				

TM3p1, 20 MHz, low channel


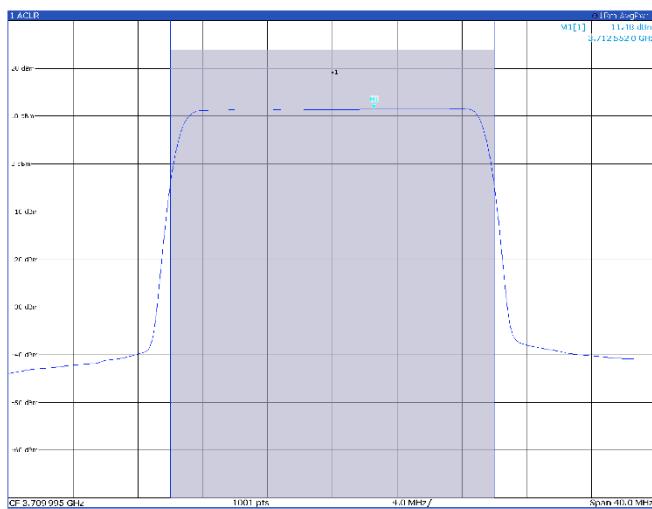
2 Result Summary		EUTRA/LTE Square/DRC		Power Max Hold
Channel	Bandwidth	Offset	Power	
z1 (TxP)	50.000 MHz	z1	23.83 dBm	
Tx Total				

TM3p1, 20 MHz, mid channel


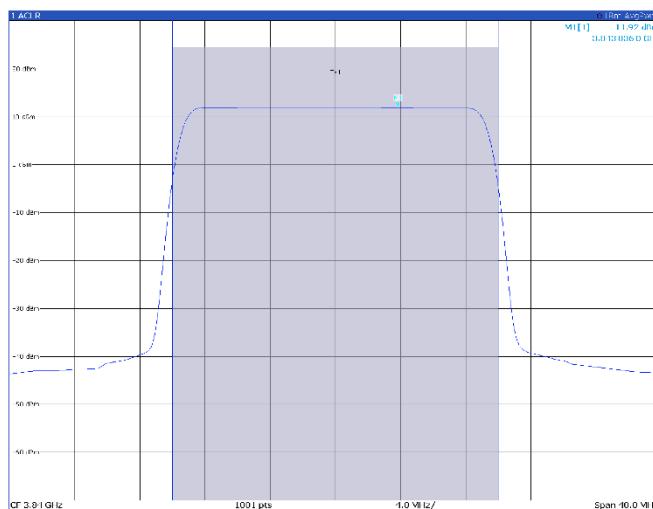
2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	Power
1:1 (3.81)	20.000 MHz	3.9050 MHz	24.57 dBm	
1x 10MHz			24.57 dBm	

TM3p1, 20 MHz, high channel


2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	Power
1:1 (3.81)	20.000 MHz	3.9050 MHz	23.51 dBm	
1x 10MHz			23.51 dBm	

TM3p1a, 20 MHz, low channel


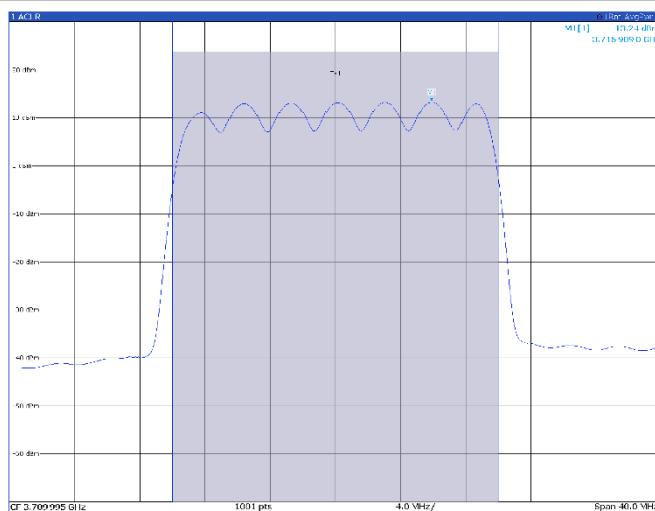
2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	Power
1:1 (3.81)	20.000 MHz	3.9050 MHz	23.89 dBm	
1x 10MHz			23.89 dBm	

TM3p1a, 20 MHz, mid channel


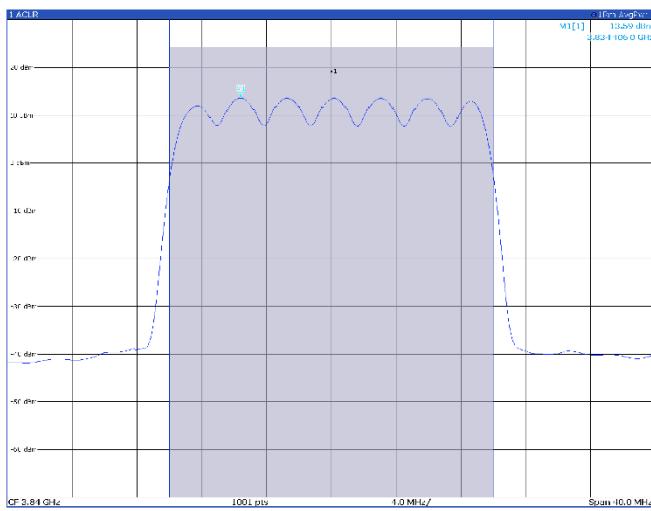
2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	Power
1:1 (3.81)	20.000 MHz	3.9050 MHz	24.36 dBm	
1x 10MHz			24.36 dBm	

TM3p1a, 20 MHz, high channel

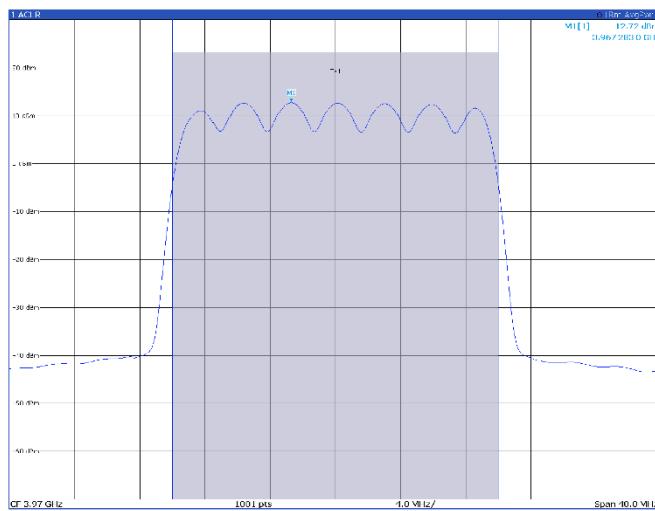

2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
Tx (Tx)	20.000 MHz	Offset	23.21 dBm
Tx Total			23.23 dBm

TM3p3, 20 MHz, low channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
Tx (Tx)	20.000 MHz	Offset	23.62 dBm
Tx Total			23.62 dBm

TM3p3, 20 MHz, mid channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
Tx (Tx)	20.000 MHz	Offset	24.19 dBm
Tx Total			24.19 dBm

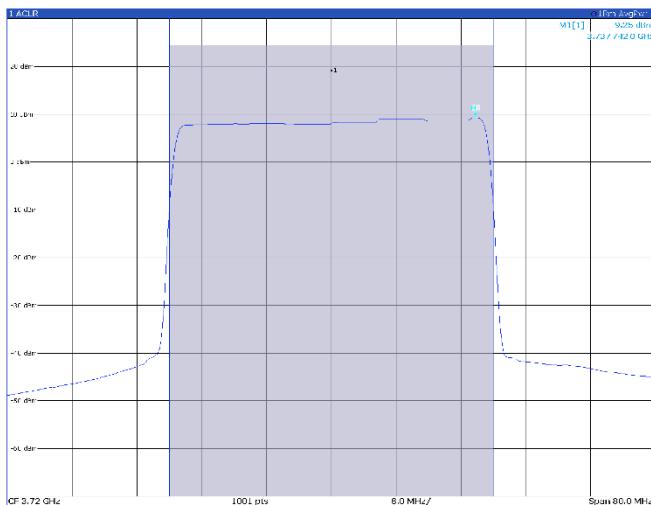
TM3p3, 20 MHz, high channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
Tx (Tx)	20.000 MHz	Offset	23.11 dBm
Tx Total			23.11 dBm

Band n77 - Output power Antenna port 2

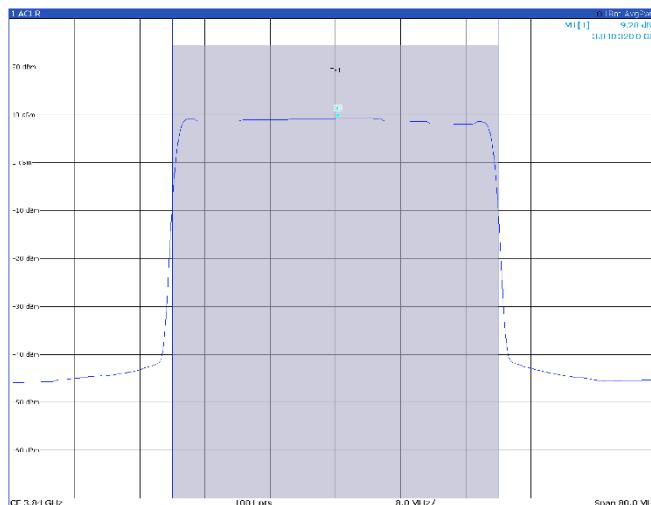
40 MHz

TM1.1, 40 MHz, low channel



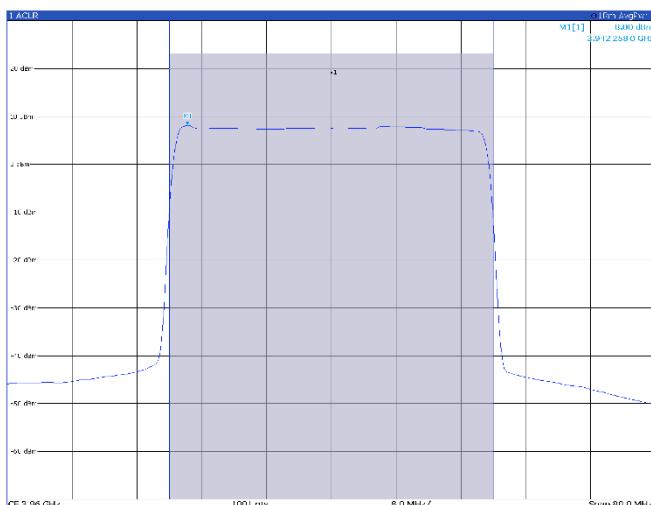
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
1:1 (90P)	40.000 MHz		24.38 dBm		
Tx Total			24.38 dBm		

TM1.1, 40 MHz, mid channel



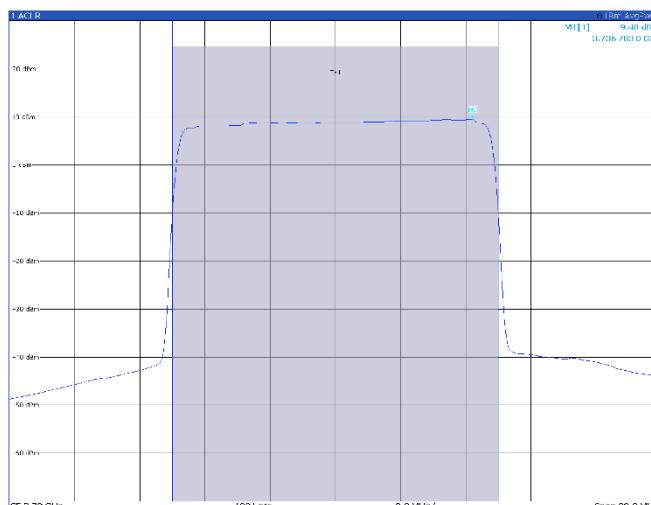
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
1:1 (2G)	40.000 MHz		24.37 dBm		
Tx Total			24.37 dBm		

TM1.1, 40 MHz, high channel

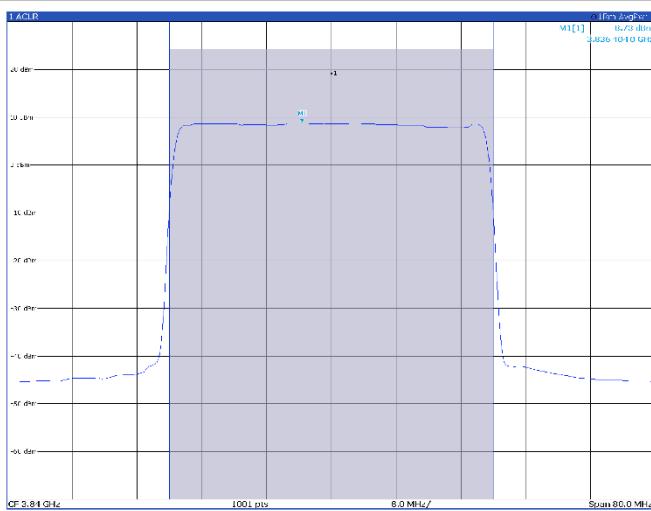


2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
1:1 (2G)	40.000 MHz		23.10 dBm		
Tx Total			23.10 dBm		

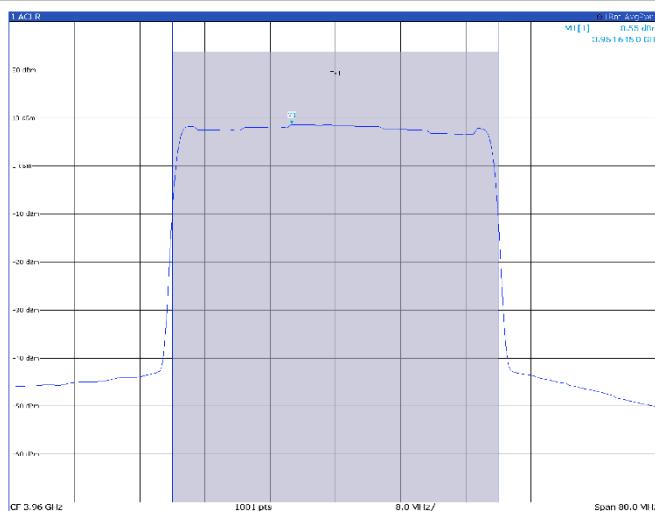
TM3p1, 40 MHz, low channel



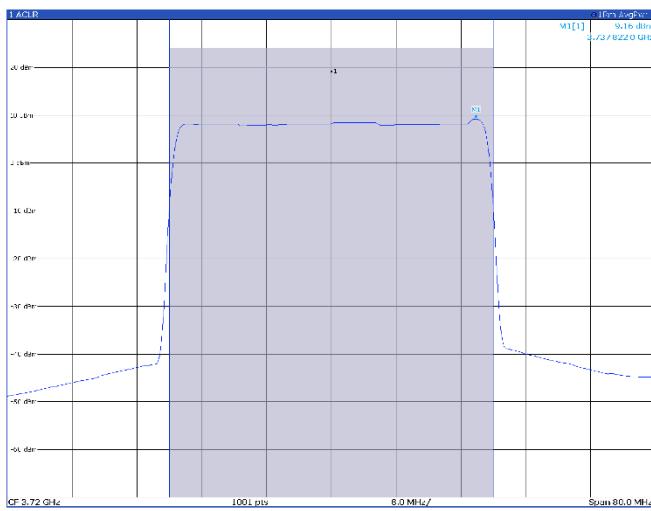
2 Result Summary		EUTRA/LTE Square/RRC		Power Max Hold	
Channel	Bandwidth	Offset	Power		
1:1 (2G)	40.000 MHz		24.61 dBm		
Tx Total			24.61 dBm		

TM3p1, 40 MHz, mid channel


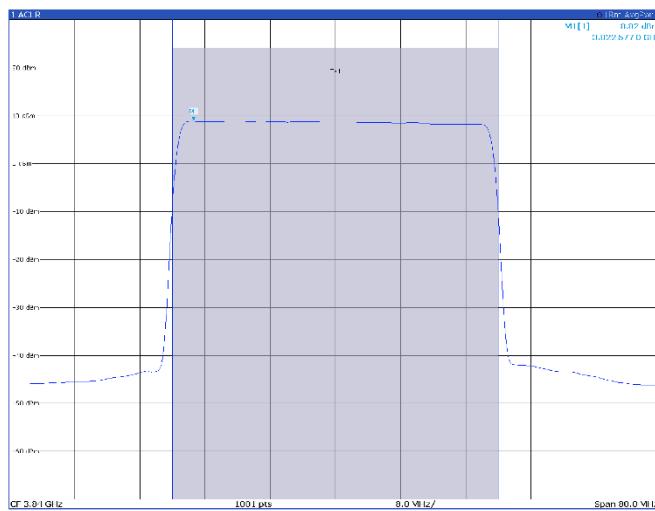
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/DRX	Power Max Hold
1:1 (Tx)	40.000 MHz	Offset	Power
			24.24 dBm
			24.24 dBm

TM3p1, 40 MHz, high channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/DRX	Power Max Hold
1:1 (Tx)	40.000 MHz	Offset	Power
			23.62 dBm
			23.62 dBm

TM3p1a, 40 MHz, low channel


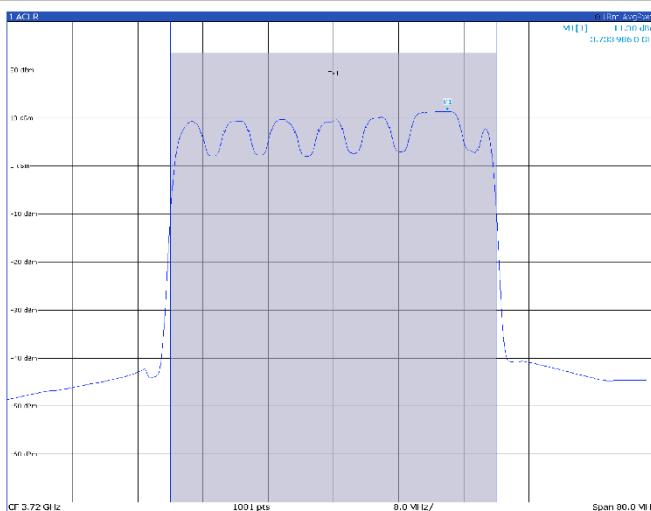
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/DRX	Power Max Hold
1:1 (Tx)	40.000 MHz	Offset	Power
			24.02 dBm
			24.02 dBm

TM3p1a, 40 MHz, mid channel


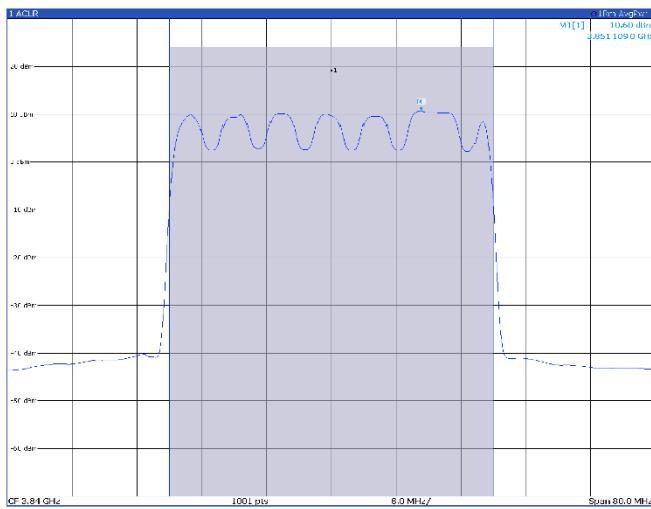
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/DRX	Power Max Hold
1:1 (Tx)	40.000 MHz	Offset	Power
			24.11 dBm
			24.11 dBm

TM3p1a, 40 MHz, high channel

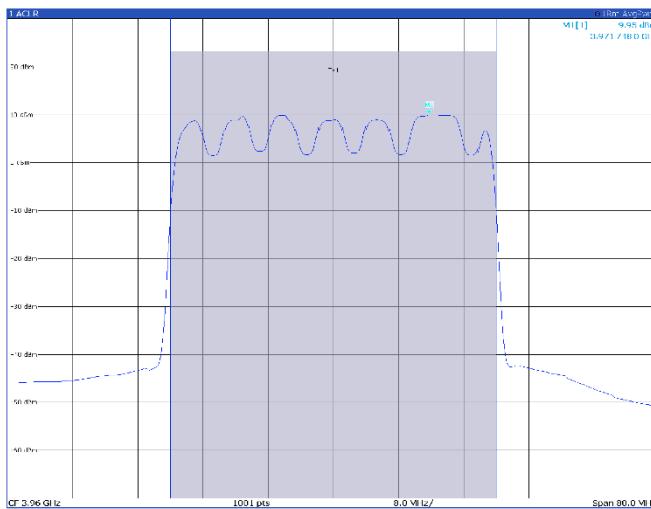

2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p1a	40.000 MHz	Offset Tx 10dB	Power 23.79 dBm 23.79 dBm

TM3p3, 40 MHz, low channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p3	40.000 MHz	Offset Tx 10dB	Power 23.49 dBm 23.49 dBm

TM3p3, 40 MHz, mid channel


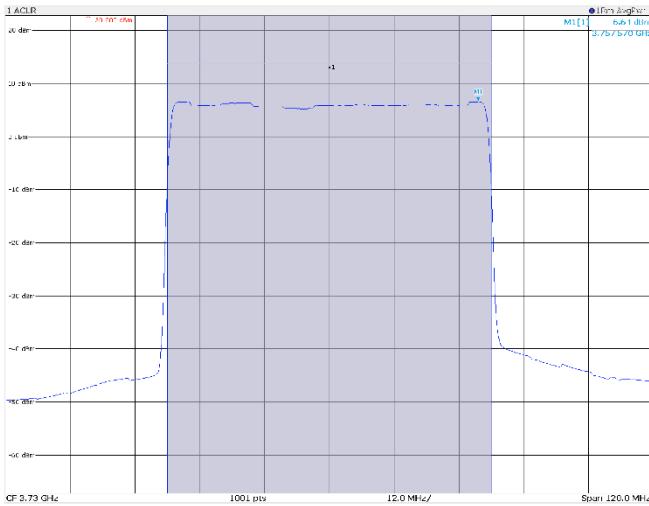
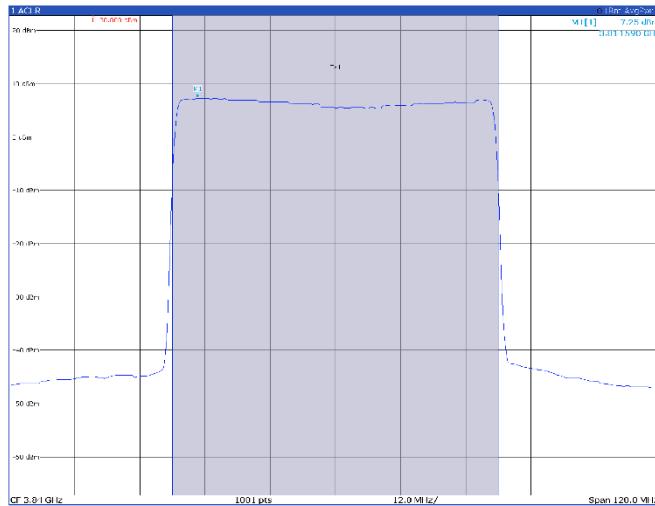
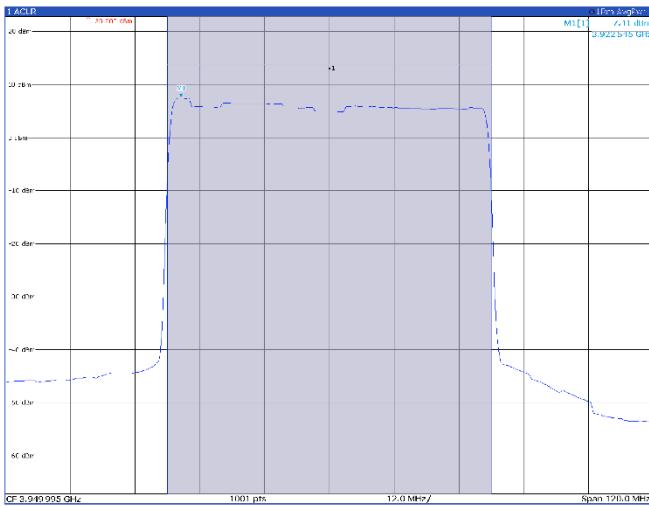
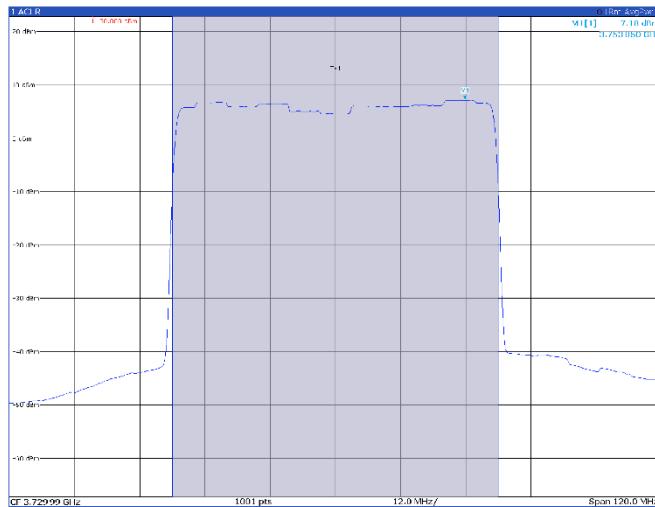
2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p3	40.000 MHz	Offset Tx 10dB	Power 24.02 dBm 24.02 dBm

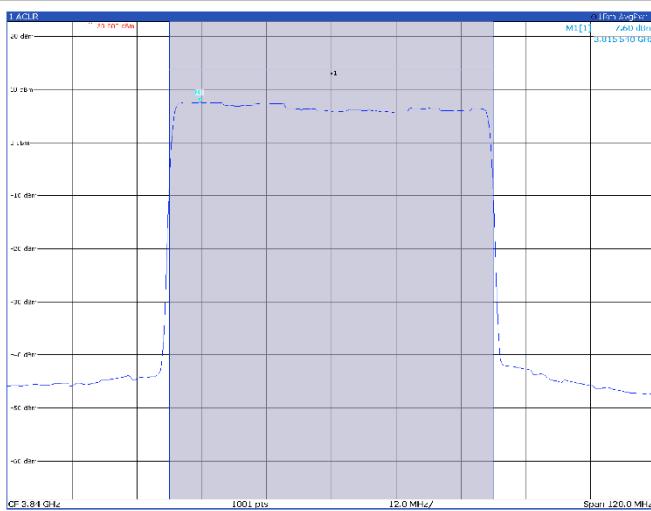
TM3p3, 40 MHz, high channel


2 Result Summary			
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power Max Hold
TM3p3	40.000 MHz	Offset Tx 10dB	Power 23.12 dBm 23.12 dBm

Band n77 - Output power Antenna port 2

60 MHz

TM1.1, 60 MHz, low channel

TM1.1, 60 MHz, mid channel

TM1.1, 60 MHz, high channel

TM3p1, 60 MHz, low channel


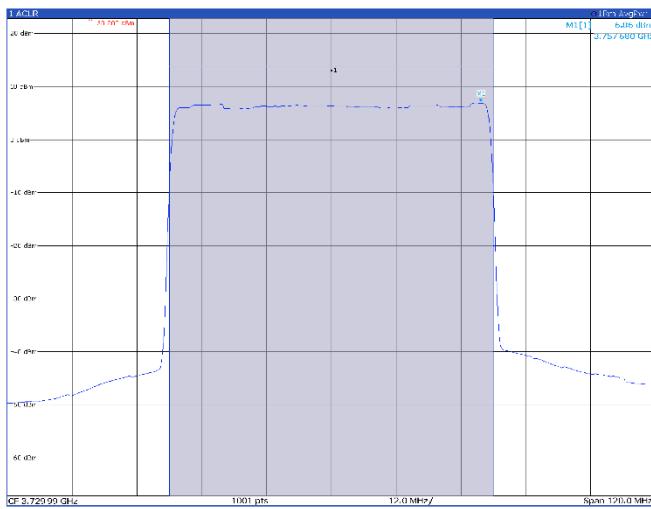
TM3p1, 60 MHz, mid channel

2 Result Summary

Channel	Bandwidth	EUTRA/LTE Square/RRC	Power	Power Max Hold
1x (Tx)	50.00 MHz		24.14 dBm	24.14 dBm

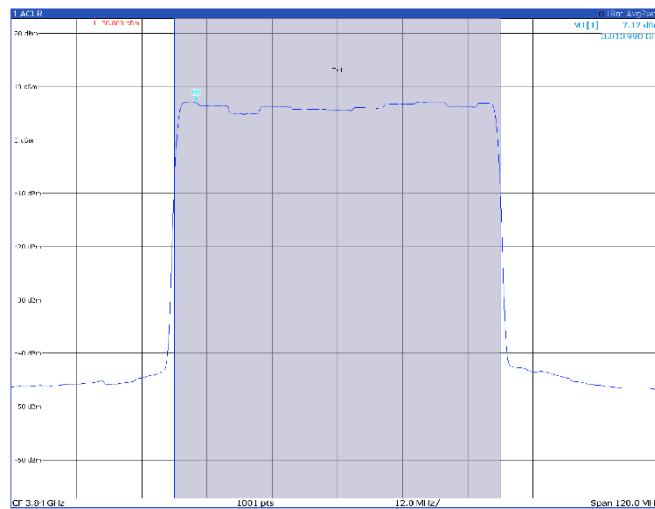
TM3p1, 60 MHz, high channel

2 Result Summary

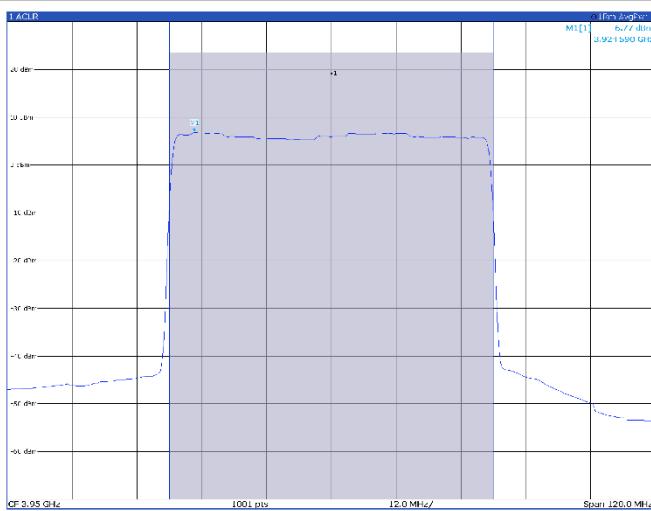
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power	Power Max Hold
1x (Tx)	50.00 MHz		23.04 dBm	23.04 dBm

TM3p1a, 60 MHz, low channel

2 Result Summary

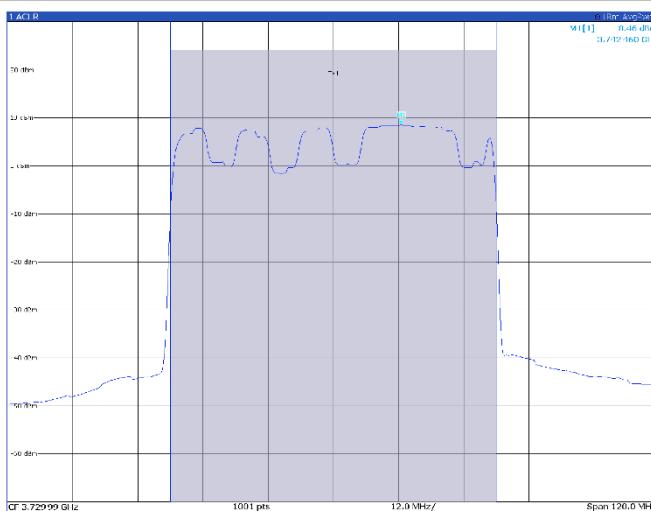
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power	Power Max Hold
1x (Tx)	50.00 MHz		24.34 dBm	24.34 dBm

TM3p1a, 60 MHz, mid channel

2 Result Summary

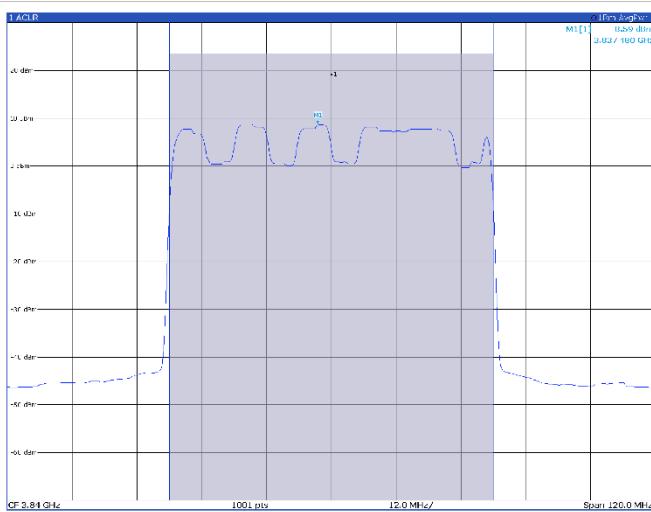
Channel	Bandwidth	EUTRA/LTE Square/RRC	Power	Power Max Hold
1x (Tx)	50.00 MHz		23.99 dBm	23.99 dBm

TM3p1a, 60 MHz, high channel


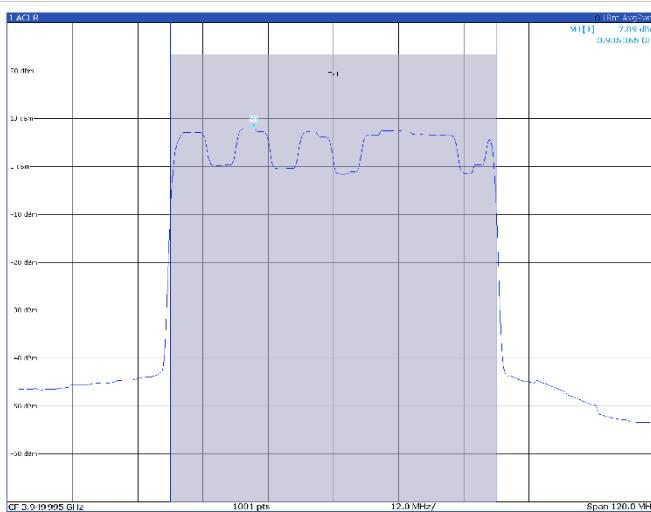
2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	
1x (Tx)	50.000 MHz	-50.000 MHz	23.55 dBm	
1x (Rx)			23.55 dBm	

TM3p3, 60 MHz, low channel


2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	
1x (Tx)	50.000 MHz	-50.000 MHz	24.07 dBm	
1x (Rx)			24.07 dBm	

TM3p3, 60 MHz, mid channel


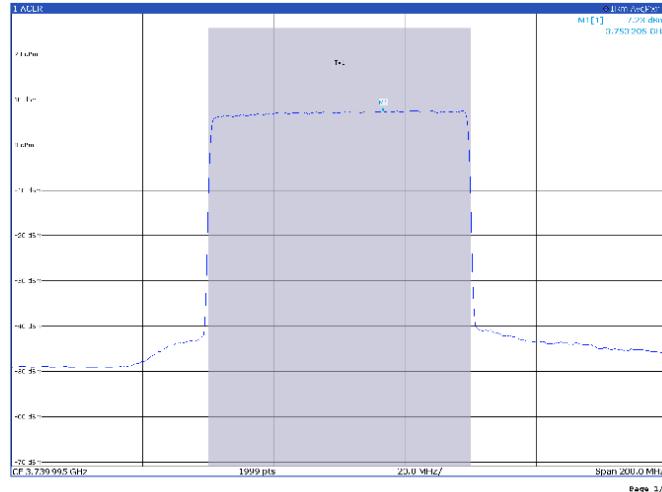
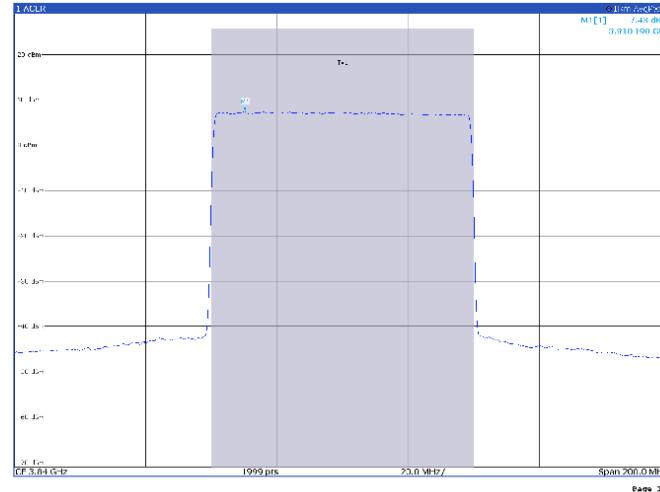
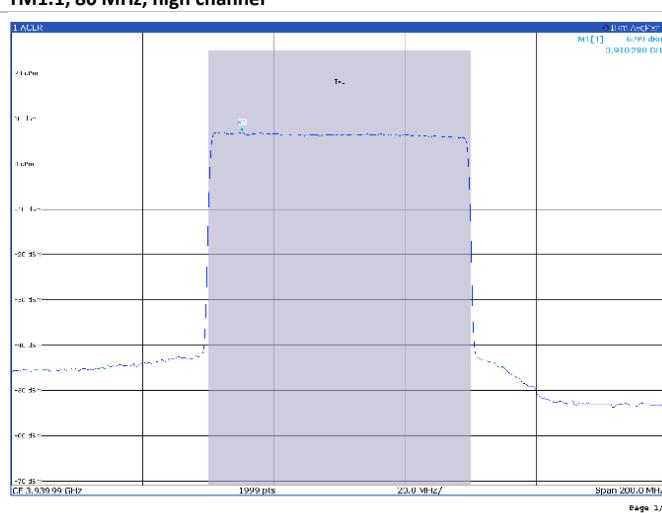
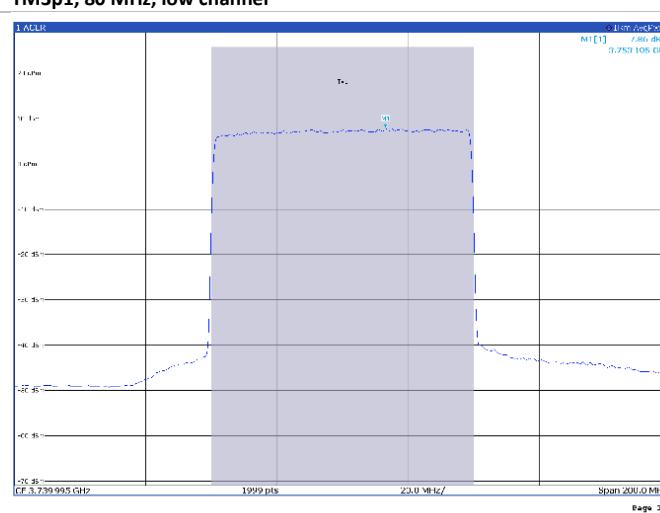
2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	
1x (Tx)	50.000 MHz	-50.000 MHz	23.60 dBm	
1x (Rx)			23.60 dBm	

TM3p3, 60 MHz, high channel


2 Result Summary		EUTRA/LTE Square/RRC	Power Max Hold	
Channel	Bandwidth	Offset	Power	
1x (Tx)	50.000 MHz	-50.000 MHz	23.32 dBm	
1x (Rx)			23.32 dBm	

Band n77 - Output power Antenna port 2

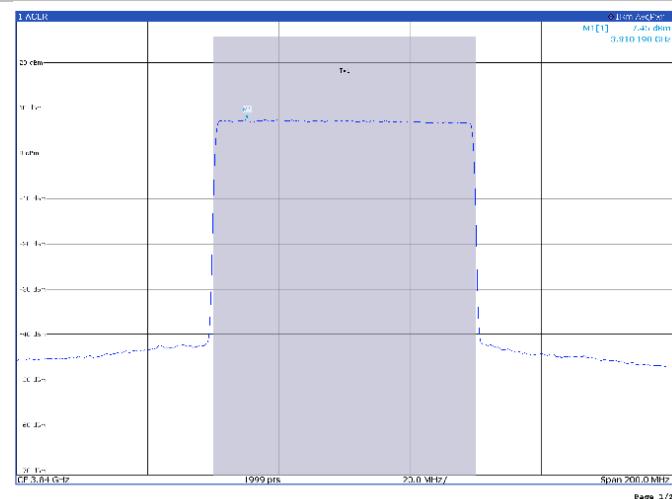
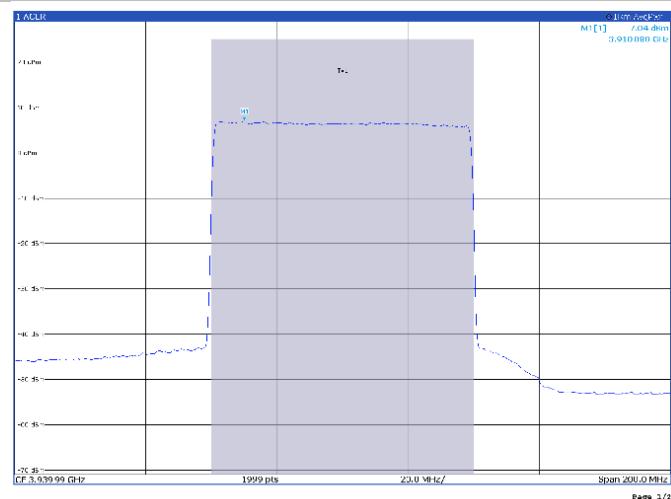
80 MHz

TM1.1, 80 MHz, low channel

TM1.1, 80 MHz, mid channel

TM1.1, 80 MHz, high channel

TM3p1, 80 MHz, low channel

2 Result Summary

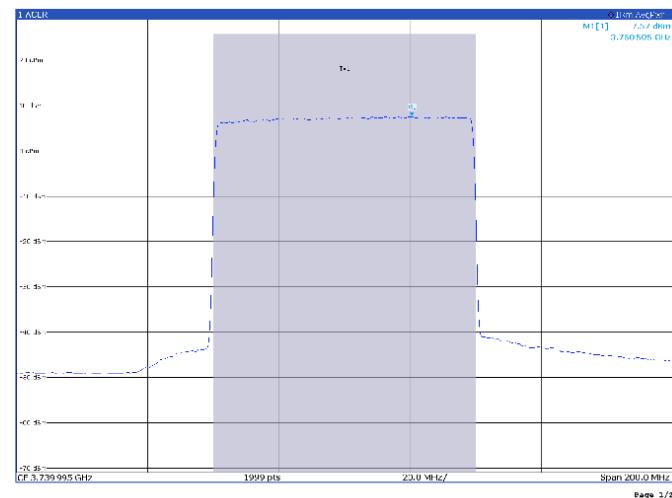
Channel	Bandwidth	Offset	Power
Tx (TxR)	80,000 MHz		25.00 dBm
Tx (TxL)			25.78 dBm

2 Result Summary

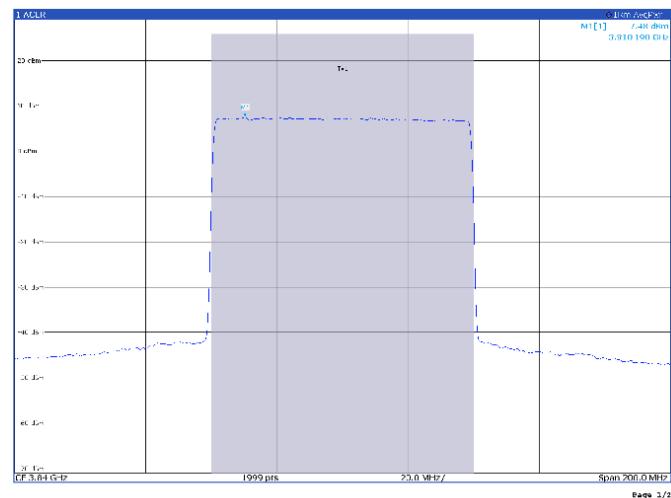
Channel	Bandwidth	Offset	Power
Tx (TxR)	80,000 MHz		25.66 dBm
Tx (TxL)			25.66 dBm

TM3p1, 80 MHz, mid channel

TM3p1, 80 MHz, high channel

2 Result Summary

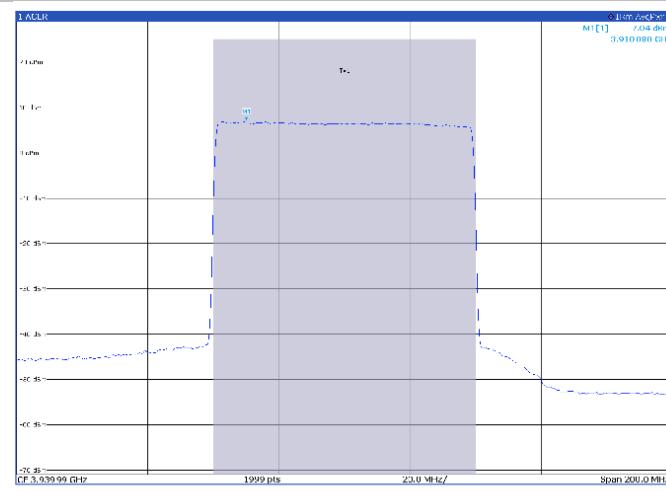
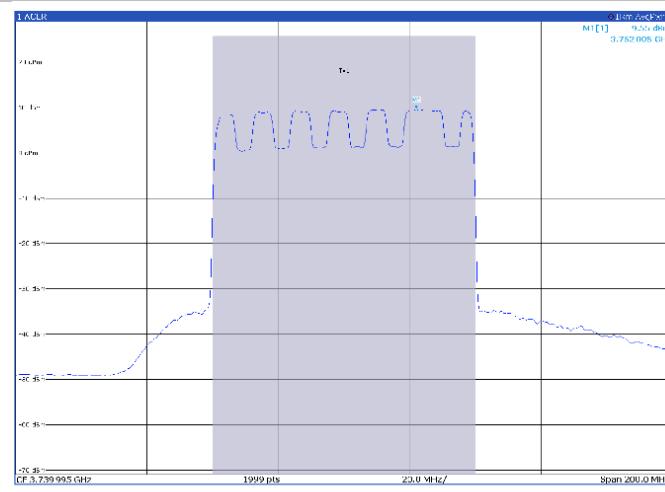
Channel	Bandwidth	Offset	Power
Tx1 (Tx1)	80.000 MHz		25.69 dBm
Tx2 (Tx2)			25.69 dBm

TM3p1a, 80 MHz, low channel

2 Result Summary

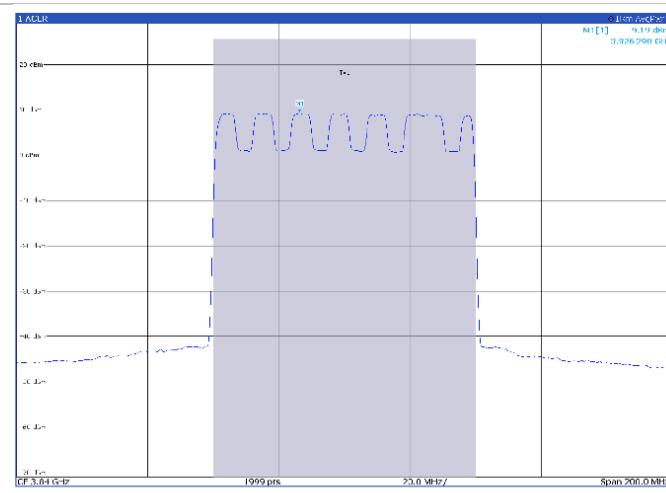
Channel	Bandwidth	Offset	Power
Tx1 (Tx1)	80.000 MHz		25.11 dBm
Tx2 (Tx2)			25.11 dBm

TM3p1a, 80 MHz, mid channel

2 Result Summary

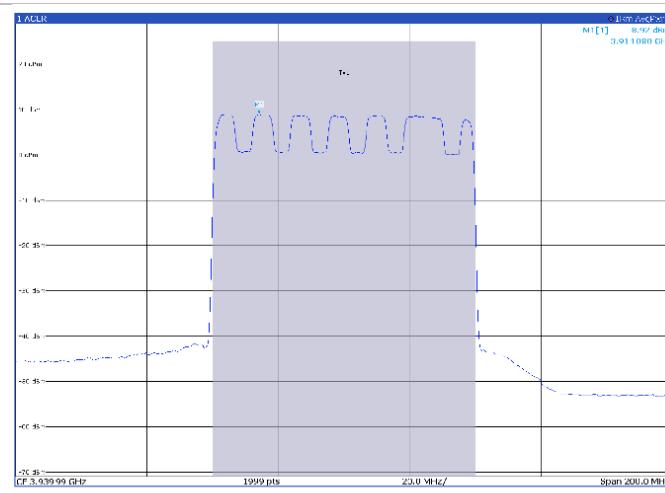
Channel	Bandwidth	Offset	Power
Tx1 (Tx1)	80.000 MHz		25.78 dBm
Tx2 (Tx2)			25.78 dBm

TM3p1a, 80 MHz, high channel

TM3p3, 80 MHz, low channel

2 Result Summary

Channel	Bandwidth	Offset	Power
I-1 P90	80,000 Hz		25.12 dBm
T-TAC			25.12 dBm

TM3p3, 80 MHz, mid channel

2 Result Summary

Channel	Bandwidth	Offset	Power
I-1 P90	80,000 Hz		25.12 dBm
T-TAC			25.12 dBm

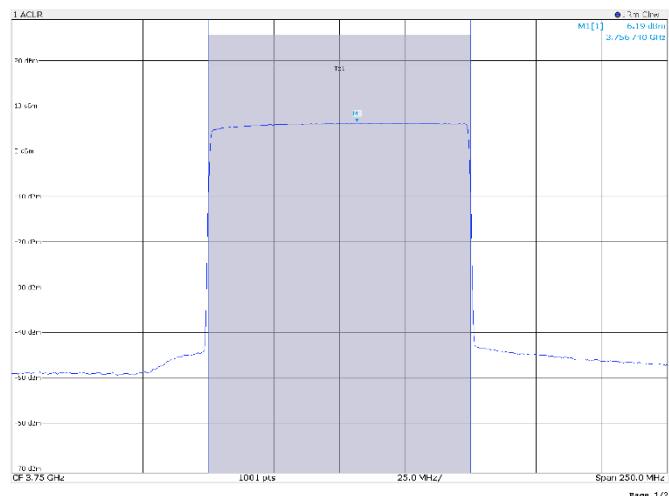
TM3p3, 80 MHz, high channel

2 Result Summary

Channel	Bandwidth	Offset	Power
I-1 P90	80,000 Hz		25.53 dBm
T-TAC			25.53 dBm

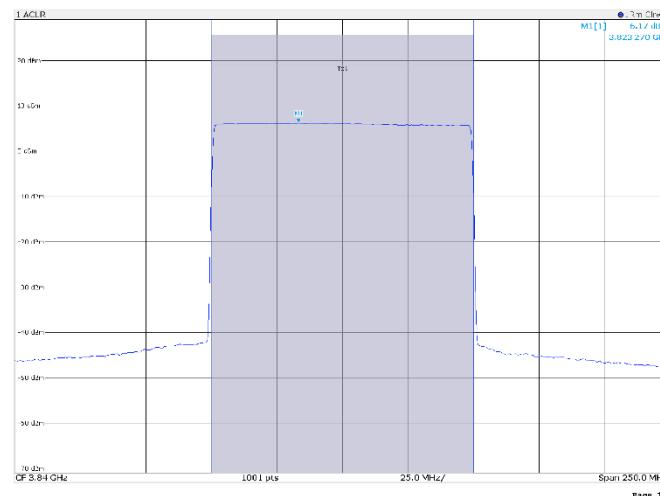
Band n77 - Output power Antenna port 2

100 MHz

TM1.1, 100 MHz, low channel



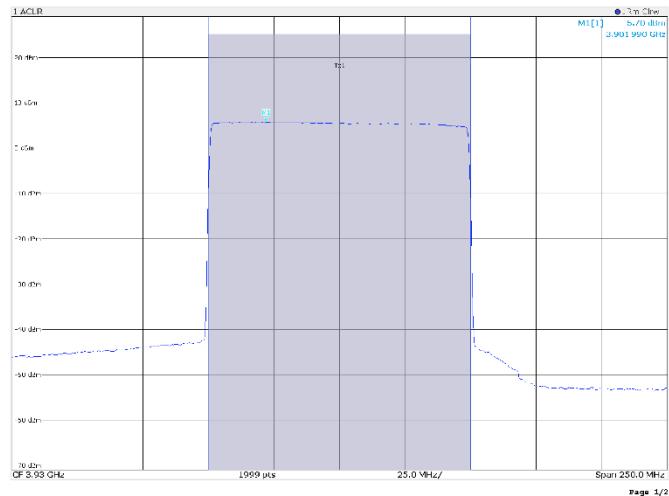
TM1.1, 100 MHz, mid channel



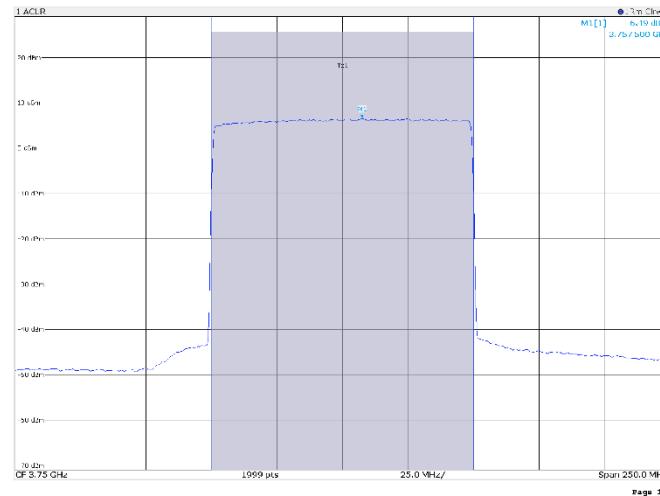
2 Result Summary			
Channel	Bandwidth	Offset	Power
1x (65f)	100.000 MHz		25.55 dBm
x (0f)			25.55 dBm

2 Result Summary			
Channel	Bandwidth	Offset	Power
1x (65f)	100.000 MHz		25.62 dBm
x (0f)			25.62 dBm

TM1.1, 100 MHz, high channel

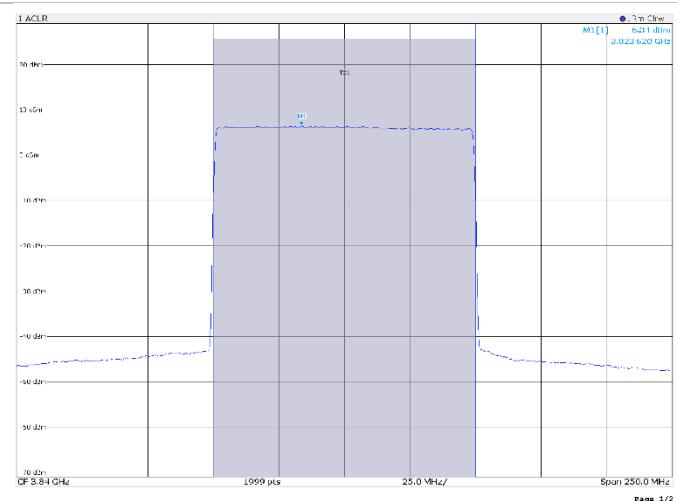
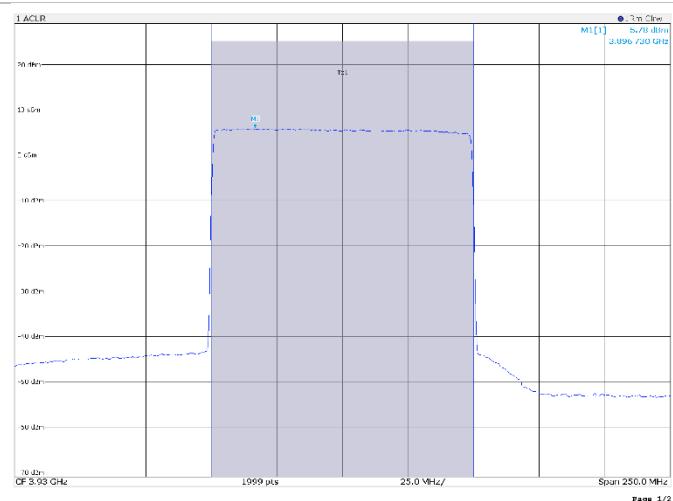
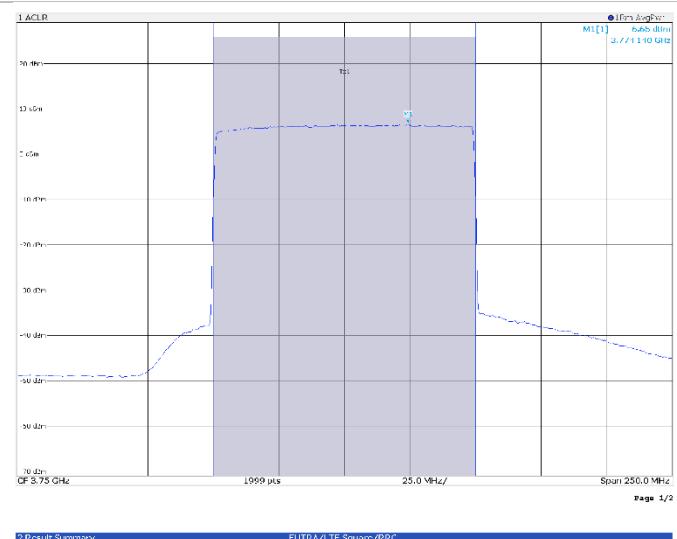
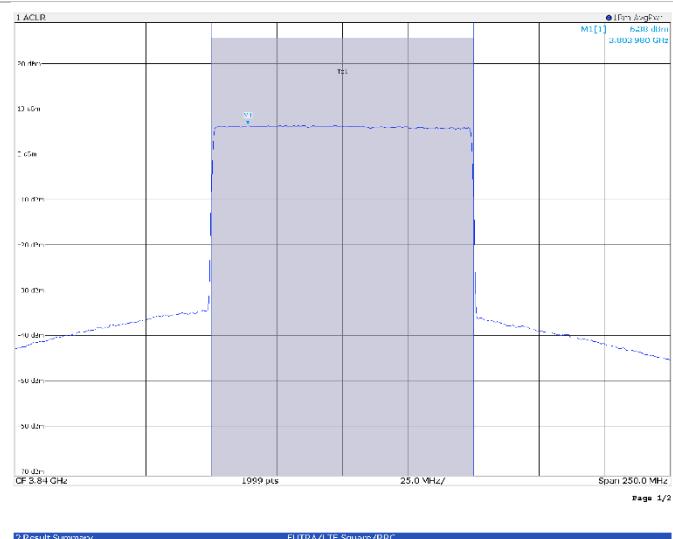


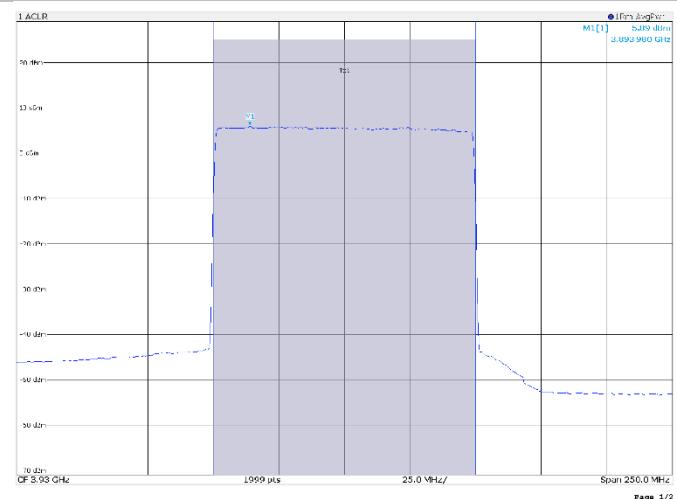
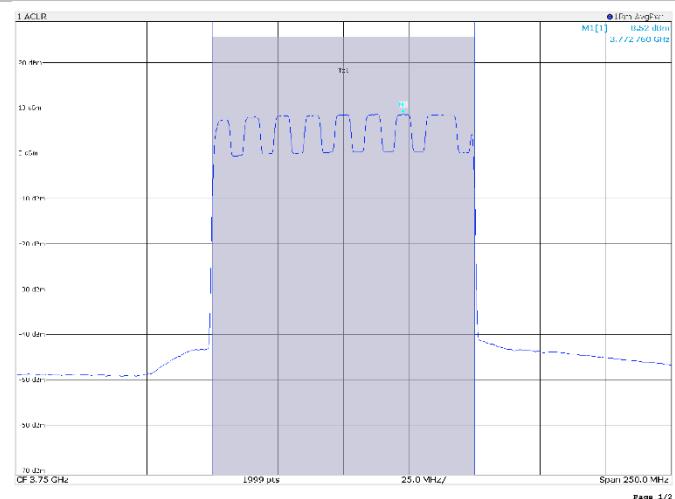
TM3p1, 100 MHz, low channel



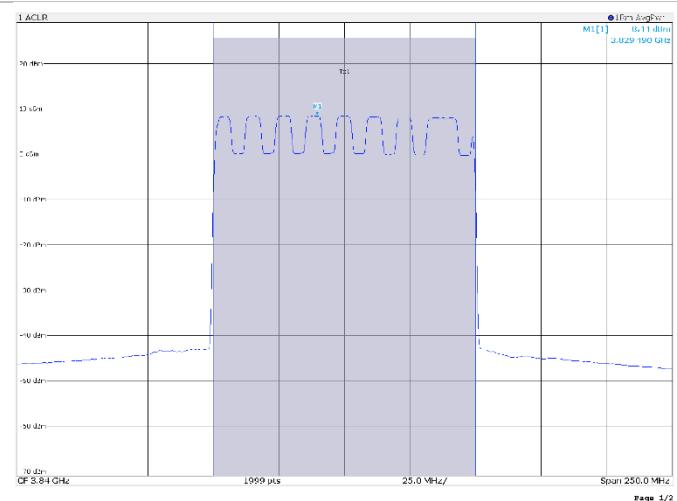
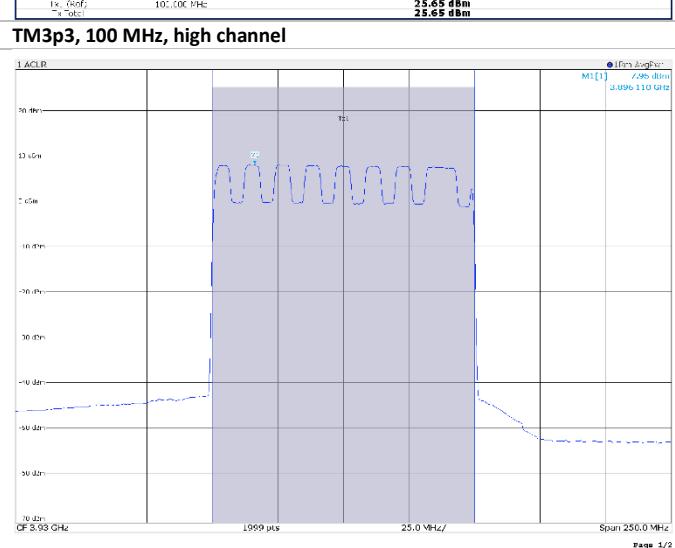
2 Result Summary			
Channel	Bandwidth	Offset	Power
1x (65f)	100.000 MHz		25.10 dBm
x (0f)			25.10 dBm

2 Result Summary			
Channel	Bandwidth	Offset	Power
1x (65f)	100.000 MHz		25.69 dBm
x (0f)			25.69 dBm

TM3p1, 100 MHz, mid channel

TM3p1, 100 MHz, high channel

TM3p1a, 100 MHz, low channel

TM3p1a, 100 MHz, mid channel


TM3p1a, 100 MHz, high channel

TM3p3, 100 MHz, low channel

2 Result Summary

Channel	Bandwidth	ULTRA/LTE Square/BRC	Offset	Power
1x (88f)	100.00 MHz			25.07 dBm
2x (80f)				25.07 dBm

TM3p3, 100 MHz, mid channel

TM3p3, 100 MHz, high channel

2 Result Summary

Channel	Bandwidth	ULTRA/LTE Square/BRC	Offset	Power
1x (88f)	100.00 MHz			25.65 dBm
2x (80f)				25.65 dBm

2 Result Summary

Channel	Bandwidth	ULTRA/LTE Square/BRC	Offset	Power
1x (88f)	100.00 MHz			25.11 dBm
2x (80f)				25.11 dBm

8.5 FCC 27.50(B) Peak to Average Power Ratio

8.5.1 Definitions and limits

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

8.5.2 Test summary

Test start date	August 19, 2024	Temperature	22 °C
Test end date	September 19, 2024	Air pressure	1001 mbar
Test engineer	D. Guarnone	Relative humidity	62%
Verdict	Pass		

8.5.3 Observations, settings and special notes

Test method: ANSI C63.26 Section 5.2.3.4.

Spectrum analyzer settings:

Resolution bandwidth	≥ OBW
Number of counts	The necessary number up to stabilizes the measured
Trace mode	Clear/Write

8.5.4 Test equipment used

Equipment	Manufacturer	Model no.	Asset no.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767

8.5.5 Test data

Antenna 1
Band n77:

Band	OBW Declared	Port	Channel (MHz)	0.1% (dB)	0.1% Limit (dB)	Margin (dB)
N77	20 MHz	1	3709.995	8.48	13	-4.52
N77	20 MHz	1	3840.0	9.34	13	-3.66
N77	20 MHz	1	3970.0	9.52	13	-3.48
N77	40 MHz	1	3720.0	9.38	13	-3.62
N77	40 MHz	1	3840.0	9.28	13	-3.72
N77	40 MHz	1	3960.0	9.52	13	-3.48
N77	60 MHz	1	3729.99	9.62	13	-3.38
N77	60 MHz	1	3840.0	9.56	13	-3.44
N77	60 MHz	1	3949.995	9.58	13	-3.42
N77	80 MHz	1	3739.995	9.58	13	-3.42
N77	80 MHz	1	3840.0	9.54	13	-3.46
N77	80 MHz	1	3939.99	9.54	13	-3.46
N77	100 MHz	1	3750.0	9.64	13	-3.36
N77	100 MHz	1	3840.0	9.56	13	-3.44
N77	100 MHz	1	3930.0	9.62	13	-3.38

Peak to average power ratio, TM1.1

Band	OBW Declared	Port	Channel (MHz)	0.1%	0.1% Limit	Margin
N77	20 MHz	1	3709.995	9.64	13	-3.36
N77	20 MHz	1	3840.0	9.56	13	-3.44
N77	20 MHz	1	3970.0	9.44	13	-3.56
N77	40 MHz	1	3720.0	9.44	13	-3.56
N77	40 MHz	1	3840.0	9.46	13	-3.54
N77	40 MHz	1	3960.0	9.44	13	-3.56
N77	60 MHz	1	3729.99	8.64	13	-4.36
N77	60 MHz	1	3840.0	9.38	13	-3.62
N77	60 MHz	1	3949.995	9.36	13	-3.64
N77	80 MHz	1	3739.995	9.54	13	-3.46
N77	80 MHz	1	3840.0	9.56	13	-3.44
N77	80 MHz	1	3939.99	9.55	13	-3.45
N77	100 MHz	1	3750.0	9.56	13	-3.44
N77	100 MHz	1	3840.0	9.50	13	-3.50
N77	100 MHz	1	3930.0	9.50	13	-3.50

Peak to average power ratio, TM3p1