

Appendix P1 - Occupied Bandwidth

Test Information:

Sample No.:	30VS-1	Test Date:	2025/04/21~2025/05/02
Test Site:	RF	Test Mode:	Transmitting
Tester:	Usain Ou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.8-25.6	Relative Humidity: (%)	39-57	ATM Pressure: (kPa)	101
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Occupied Bandwidth

FCC Part 22H

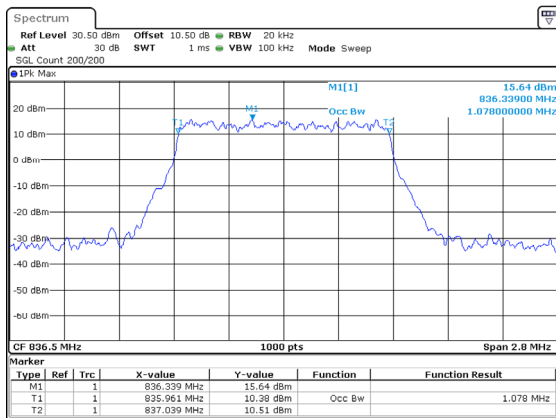
LTE Band 5, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
1.4MHz_Middle_QPSK_6@0	1.078	1.247
1.4MHz_Middle_16QAM_6@0	1.084	1.259
3MHz_Middle_QPSK_15@0	2.676	2.883
3MHz_Middle_16QAM_15@0	2.682	2.877
5MHz_Middle_QPSK_25@0	4.470	4.855
5MHz_Middle_16QAM_25@0	4.470	4.825
10MHz_Middle_QPSK_50@0	8.920	9.650
10MHz_Middle_16QAM_50@0	8.920	9.570

LTE Band 5, Normal

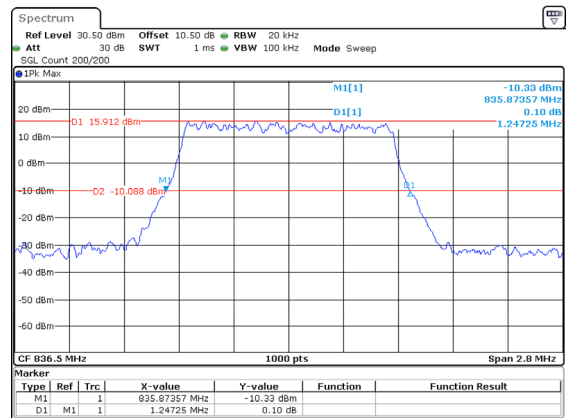
1.4MHz_Middle_QPSK_6@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:18:16

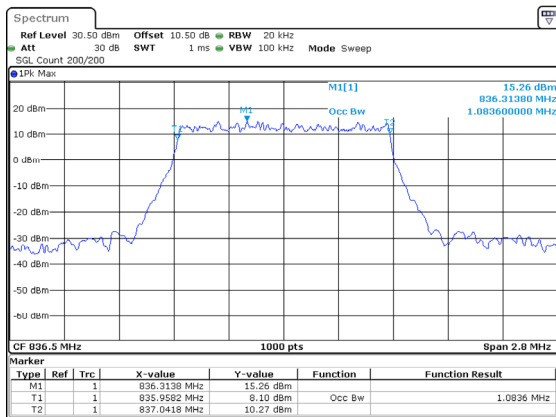
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:18:20

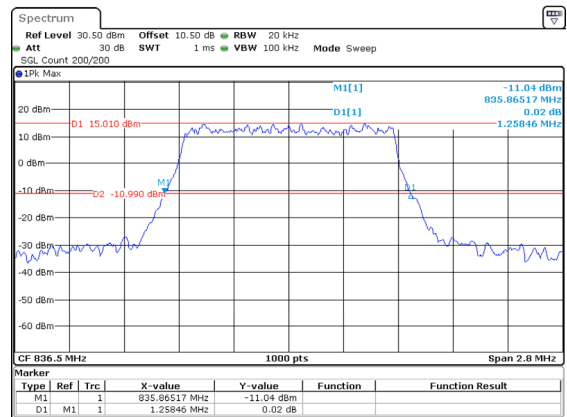
1.4MHz_Middle_16QAM_6@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:18:33

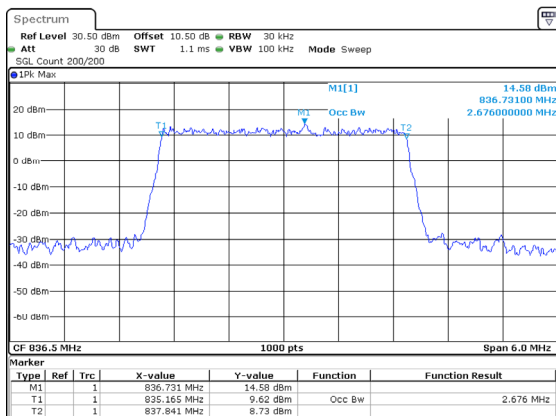
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:18:37

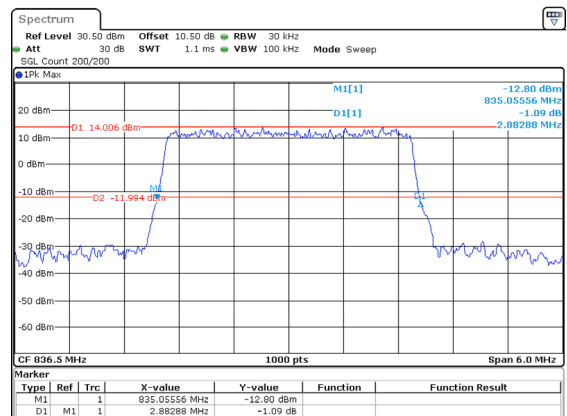
3MHz_Middle_QPSK_15@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:18:56

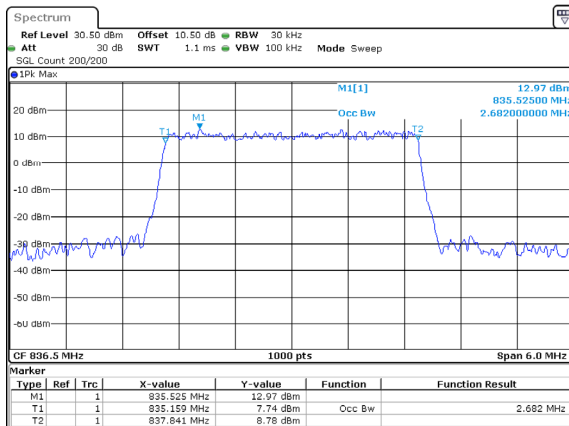
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:19:01

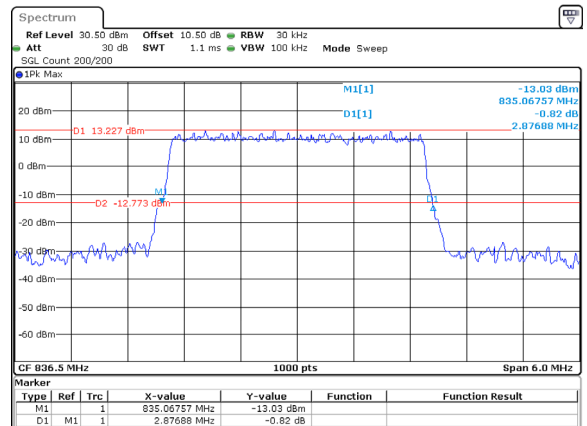
3MHz_Middle_16QAM_15@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:19:12

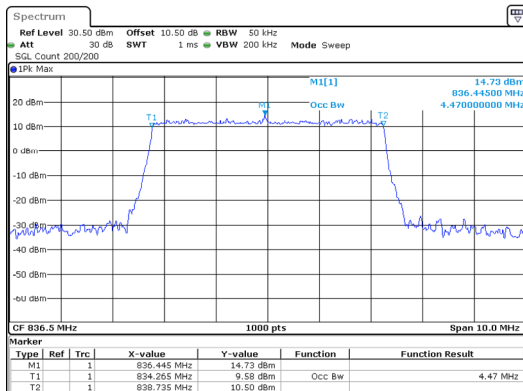
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:19:17

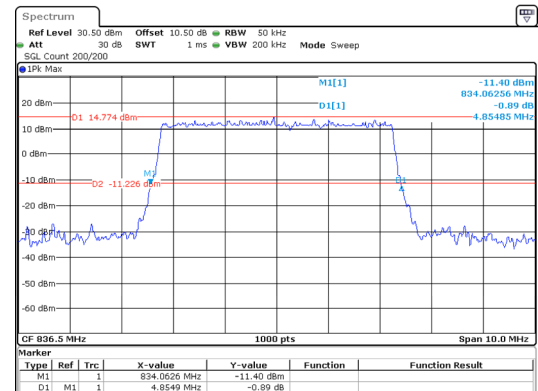
5MHz_Middle_QPSK_25@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:20:04

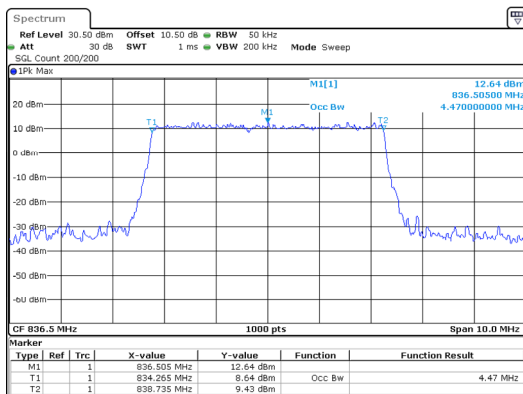
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:20:10

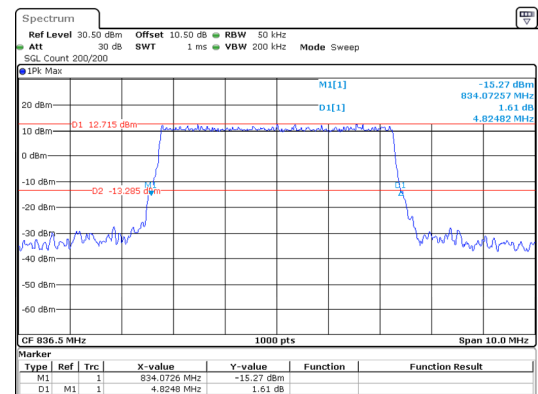
5MHz_Middle_16QAM_25@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:20:21

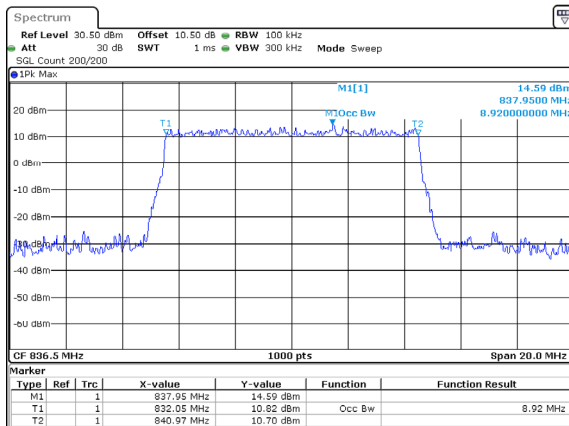
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:20:26

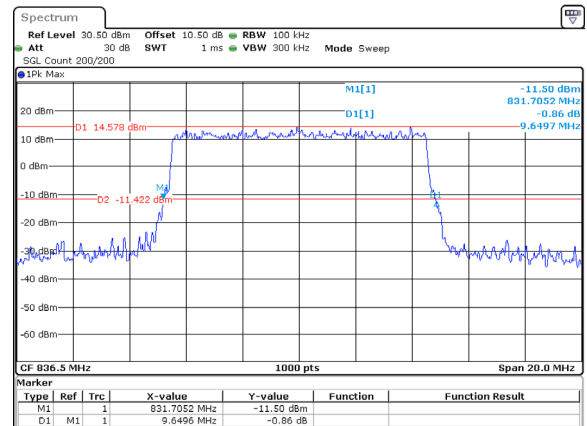
10MHz_Middle_QPSK_50@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:21:30

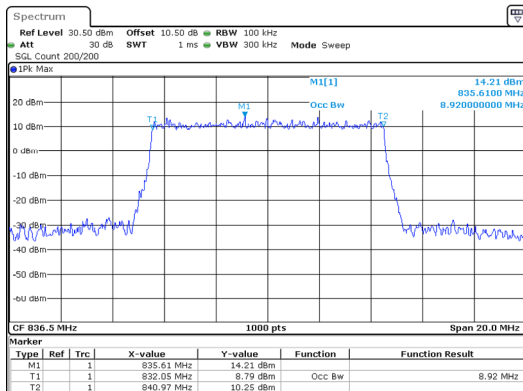
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:21:35

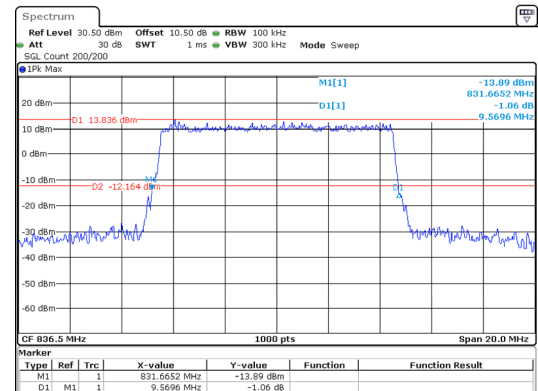
10MHz_Middle_16QAM_50@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:21:48

26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 21.APR.2025 22:21:54

FCC Part 24E

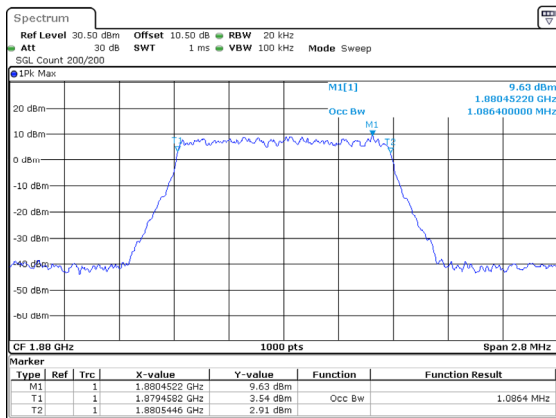
LTE Band 2, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
1.4MHz_Middle_QPSK_6@0	1.086	1.267
1.4MHz_Middle_16QAM_6@0	1.081	1.261
3MHz_Middle_QPSK_15@0	2.682	2.895
3MHz_Middle_16QAM_15@0	2.682	2.901
5MHz_Middle_QPSK_25@0	4.470	4.885
5MHz_Middle_16QAM_25@0	4.470	4.865
10MHz_Middle_QPSK_50@0	8.940	9.590
10MHz_Middle_16QAM_50@0	8.920	9.630
15MHz_Middle_QPSK_75@0	13.410	14.234
15MHz_Middle_16QAM_75@0	13.440	14.414
20MHz_Middle_QPSK_100@0	17.880	18.939
20MHz_Middle_16QAM_100@0	17.840	18.979

LTE Band 2 , Normal

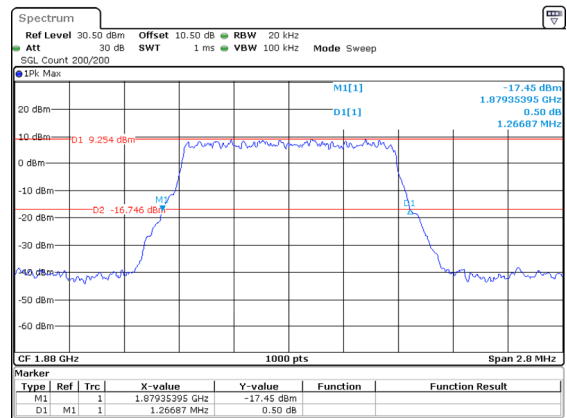
1.4MHz_Middle_QPSK_6@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:31:50

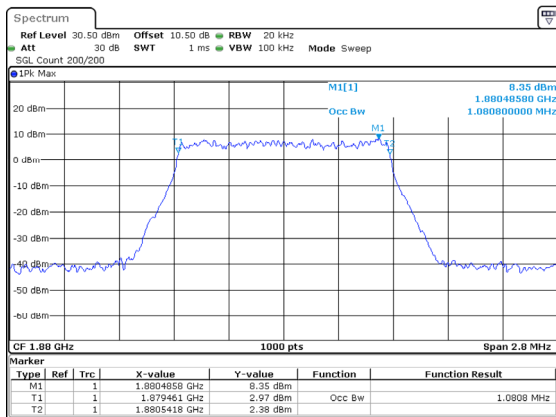
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:31:55

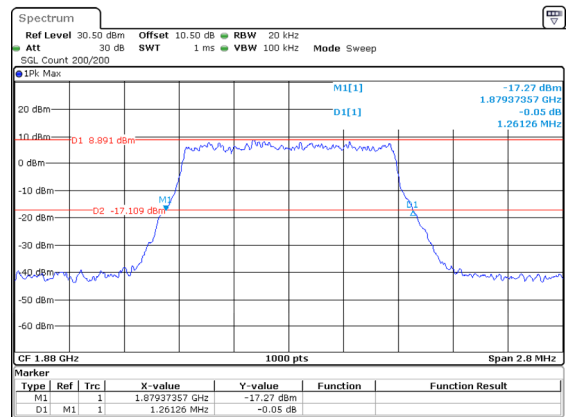
1.4MHz_Middle_16QAM_6@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:32:10

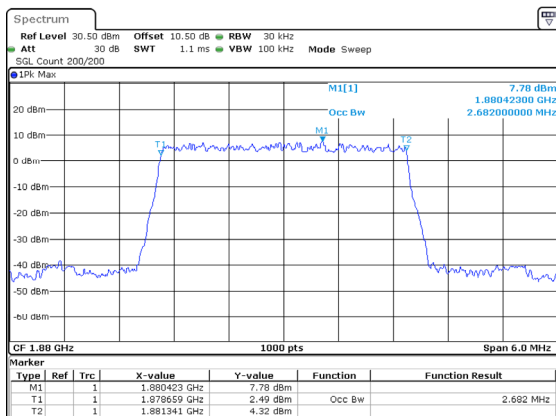
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:32:16

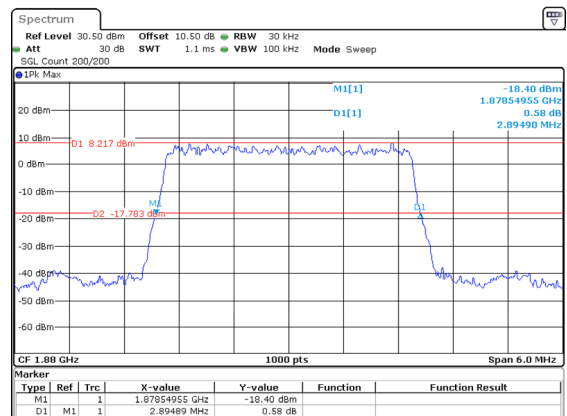
3MHz_Middle_QPSK_15@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:34:18

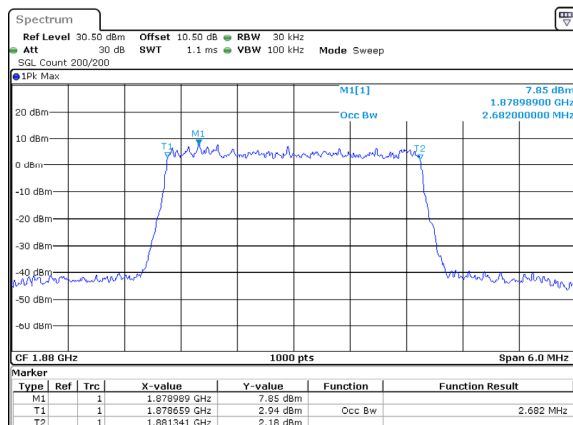
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:34:24

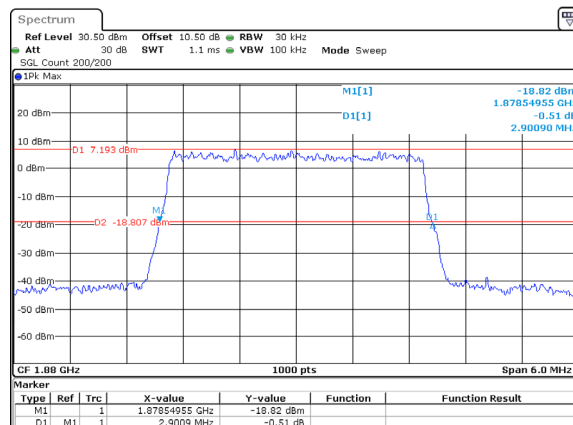
3MHz_Middle_16QAM_15@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:34:37

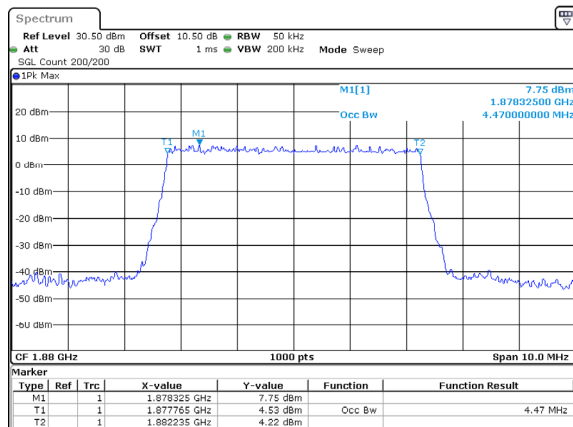
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:34:43

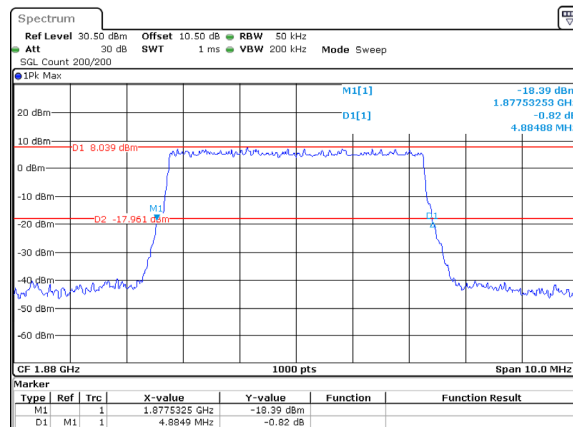
5MHz_Middle_QPSK_25@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:36:50

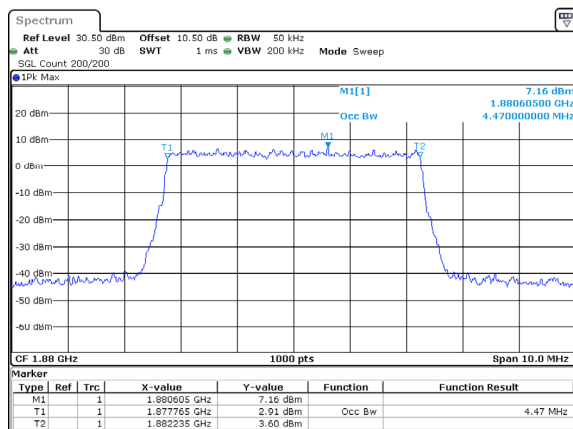
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:36:55

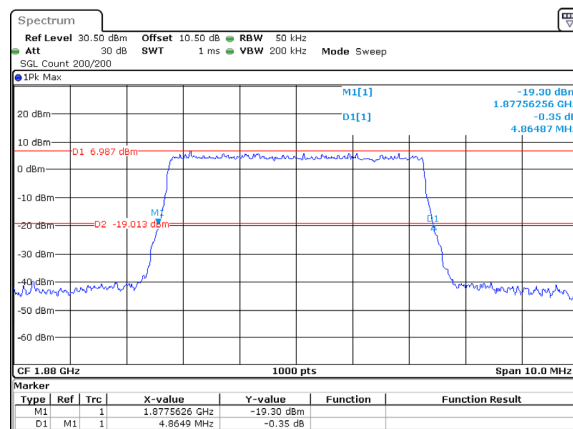
5MHz_Middle_16QAM_25@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:37:09

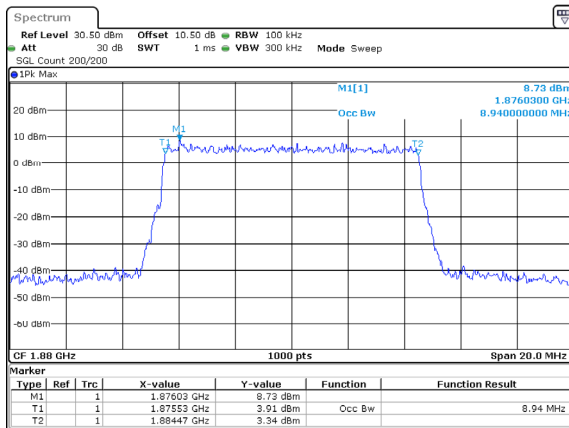
26dB Bandwidth



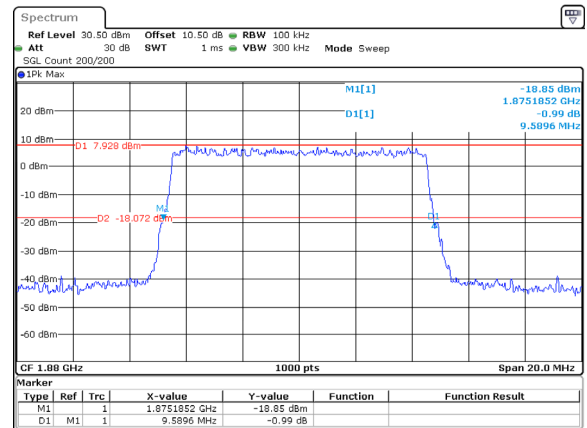
ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:37:15

10MHz_Middle_QPSK_50@0

Occupied Bandwidth

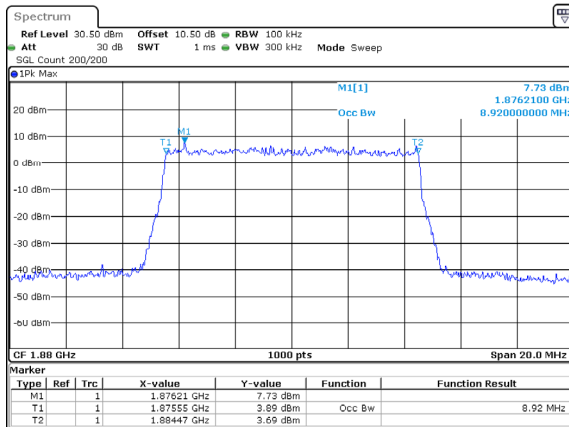


26dB Bandwidth

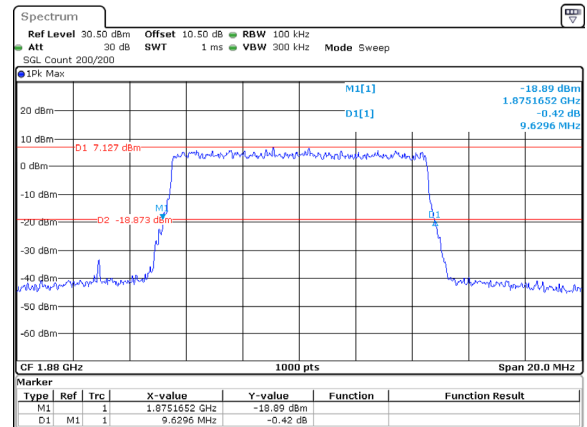


10MHz_Middle_16QAM_50@0

Occupied Bandwidth

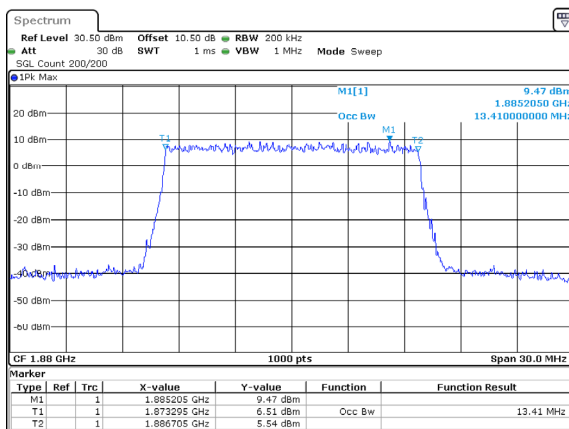


26dB Bandwidth

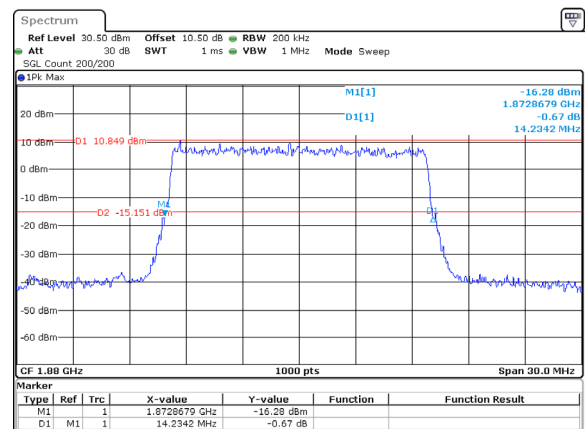


15MHz_Middle_QPSK_75@0

Occupied Bandwidth

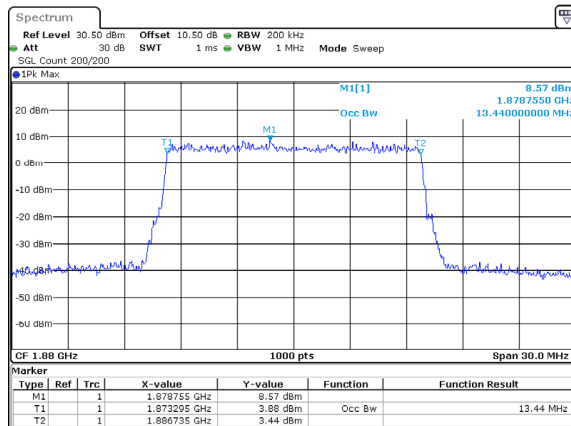


26dB Bandwidth



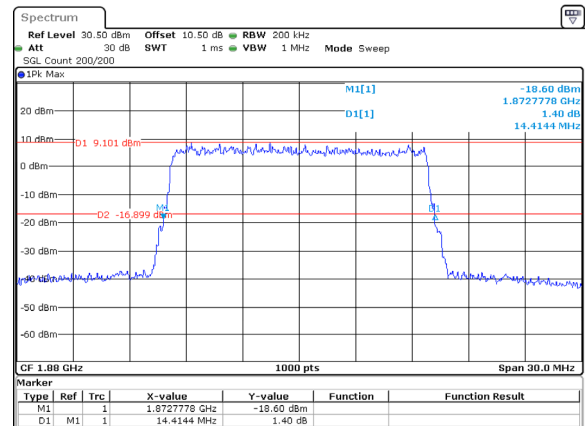
15MHz_Middle_16QAM_75@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:43:04

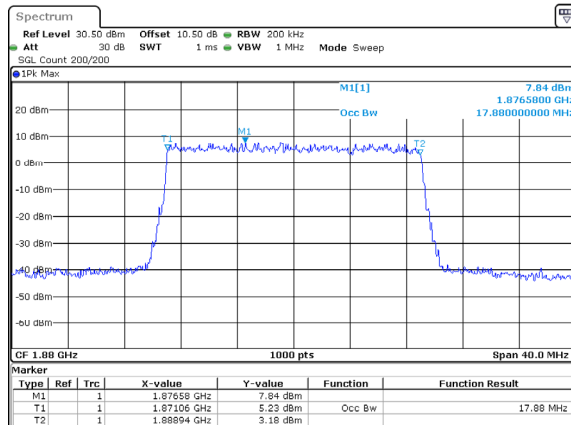
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:43:13

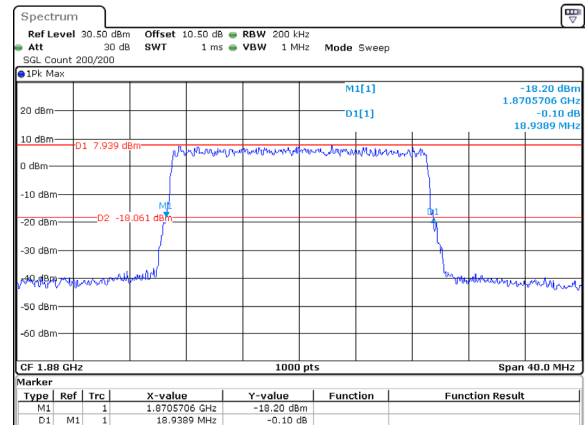
20MHz_Middle_QPSK_100@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:46:12

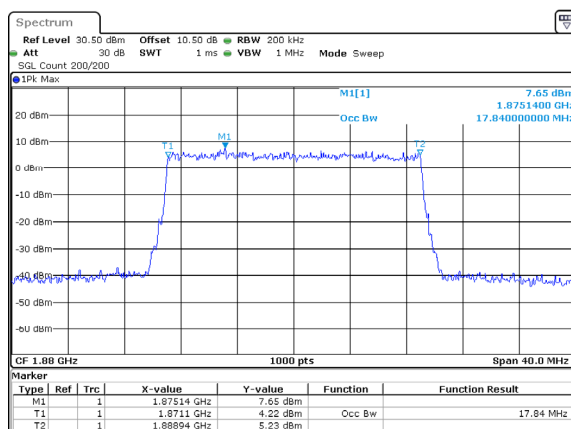
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:46:22

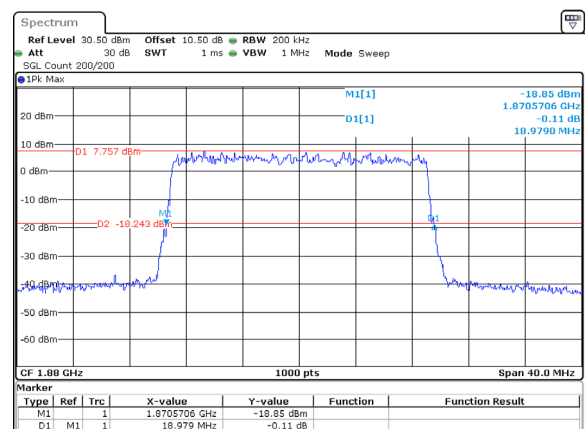
20MHz_Middle_16QAM_100@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:46:43

26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:46:51

FCC Part 27

LTE Band 4, Normal LTE Band 4 , Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
1.4MHz_Middle_QPSK_6@0	1.086	1.259
1.4MHz_Middle_16QAM_6@0	1.078	1.261
3MHz_Middle_QPSK_15@0	2.676	2.883
3MHz_Middle_16QAM_15@0	2.682	2.913
5MHz_Middle_QPSK_25@0	4.480	4.805
5MHz_Middle_16QAM_25@0	4.460	4.875
10MHz_Middle_QPSK_50@0	8.960	9.670
10MHz_Middle_16QAM_50@0	8.940	9.510
15MHz_Middle_QPSK_75@0	13.410	14.444
15MHz_Middle_16QAM_75@0	13.410	14.354
20MHz_Middle_QPSK_100@0	17.880	19.099
20MHz_Middle_16QAM_100@0	17.840	19.059

LTE Band 12, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
1.4MHz_Middle_QPSK_6@0	1.086	1.261
1.4MHz_Middle_16QAM_6@0	1.081	1.273
3MHz_Middle_QPSK_15@0	2.676	2.937
3MHz_Middle_16QAM_15@0	2.676	2.883
5MHz_Middle_QPSK_25@0	4.480	4.815
5MHz_Middle_16QAM_25@0	4.470	4.825
10MHz_Middle_QPSK_50@0	8.940	9.550
10MHz_Middle_16QAM_50@0	8.960	9.650

LTE Band 17, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
5MHz_Middle_QPSK_25@0	4.460	4.835
5MHz_Middle_16QAM_25@0	4.470	4.815
10MHz_Middle_QPSK_50@0	8.920	9.570
10MHz_Middle_16QAM_50@0	8.920	9.650

LTE Band 41, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
5MHz_Middle_QPSK_25@0	4.470	4.765
5MHz_Middle_16QAM_25@0	4.460	5.886
10MHz_Middle_QPSK_50@0	8.940	9.910
10MHz_Middle_16QAM_50@0	8.940	9.429
15MHz_Middle_QPSK_75@0	13.410	14.354
15MHz_Middle_16QAM_75@0	13.380	14.955
20MHz_Middle_QPSK_100@0	17.840	18.859
20MHz_Middle_16QAM_100@0	17.840	19.980

LTE Band 66, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
1.4MHz_Middle_QPSK_6@0	1.084	1.273
1.4MHz_Middle_16QAM_6@0	1.081	1.273
3MHz_Middle_QPSK_15@0	2.676	2.913
3MHz_Middle_16QAM_15@0	2.682	2.925
5MHz_Middle_QPSK_25@0	4.470	4.855
5MHz_Middle_16QAM_25@0	4.460	4.865
10MHz_Middle_QPSK_50@0	8.940	9.670
10MHz_Middle_16QAM_50@0	8.960	9.610
15MHz_Middle_QPSK_75@0	13.410	14.324
15MHz_Middle_16QAM_75@0	13.380	14.324
20MHz_Middle_QPSK_100@0	17.840	19.019
20MHz_Middle_16QAM_100@0	17.880	19.139

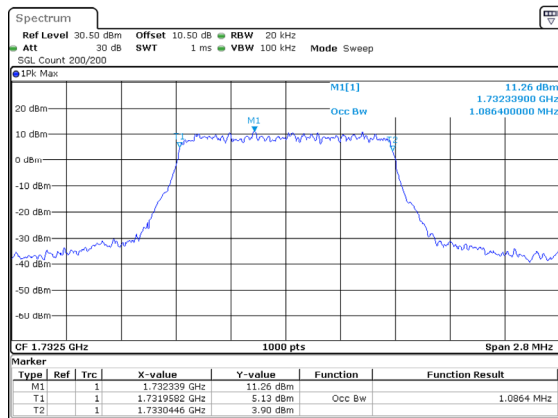
LTE Band 71, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
5MHz_Middle_QPSK_25@0	4.470	4.875
5MHz_Middle_16QAM_25@0	4.470	4.875
10MHz_Middle_QPSK_50@0	8.940	9.650
10MHz_Middle_16QAM_50@0	8.940	9.650
15MHz_Middle_QPSK_75@0	13.440	14.354
15MHz_Middle_16QAM_75@0	13.440	14.475
20MHz_Middle_QPSK_100@0	17.840	19.339
20MHz_Middle_16QAM_100@0	17.880	18.899

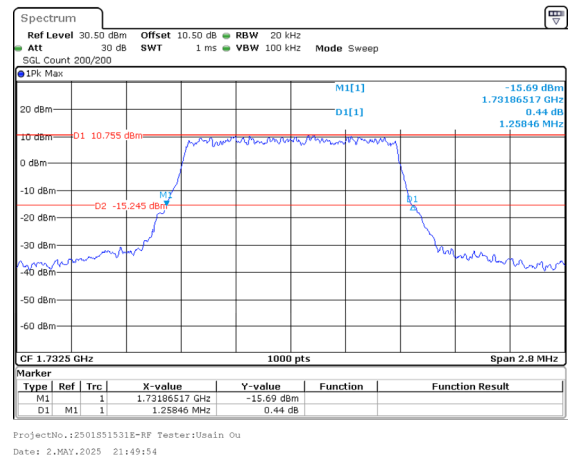
LTE Band 4 , Normal

1.4MHz_Middle_QPSK_6@0

Occupied Bandwidth

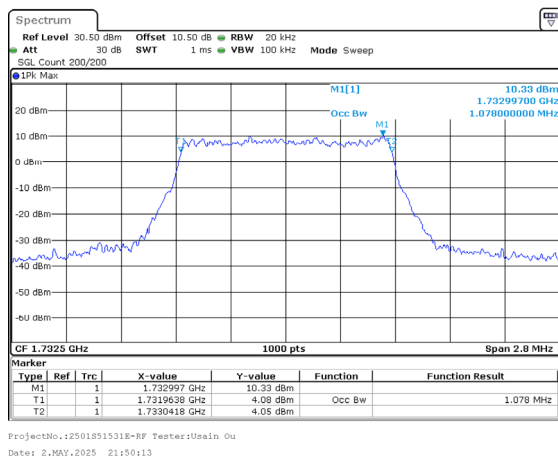


26dB Bandwidth

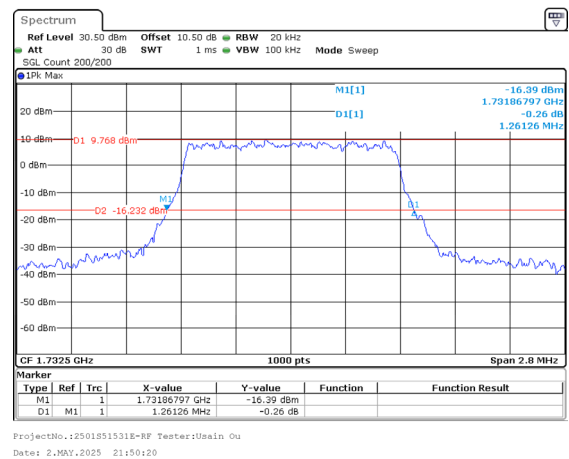


1.4MHz_Middle_16QAM_6@0

Occupied Bandwidth

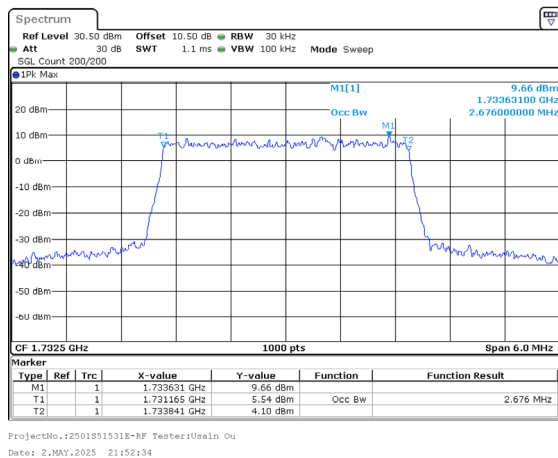


26dB Bandwidth

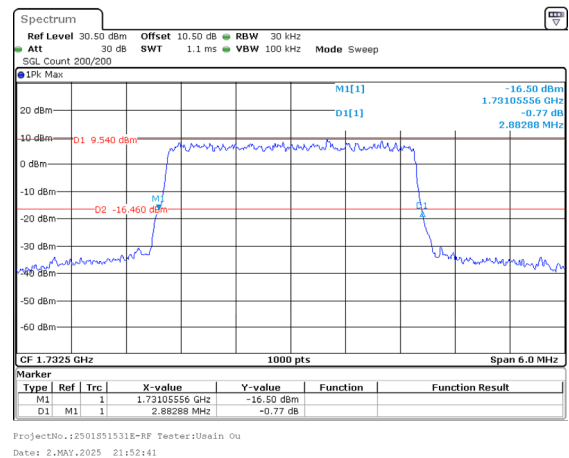


3MHz_Middle_QPSK_15@0

Occupied Bandwidth

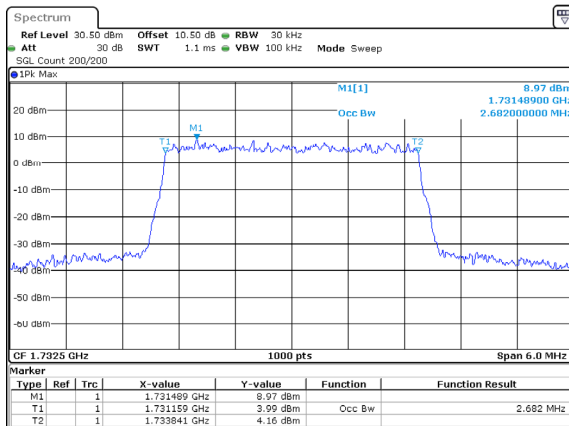


26dB Bandwidth



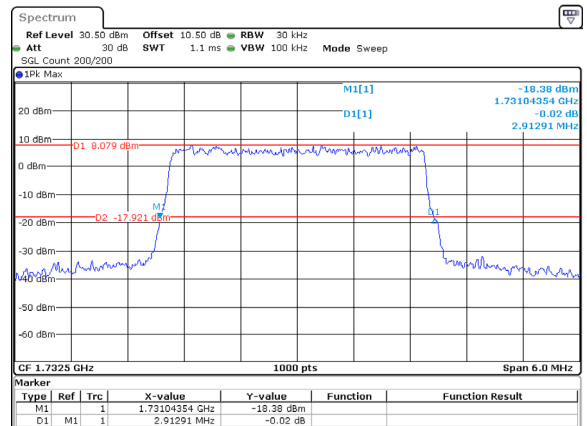
3MHz_Middle_16QAM_15@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:52:55

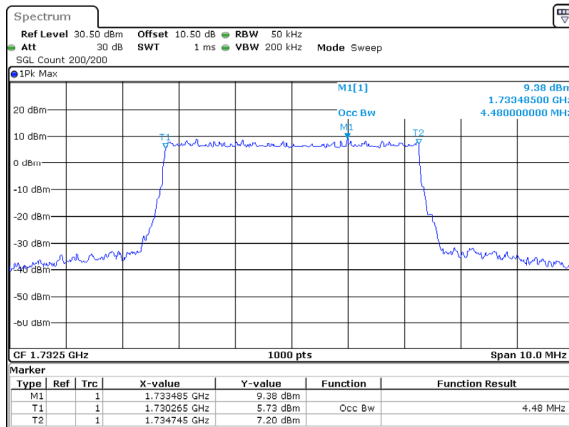
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:53:02

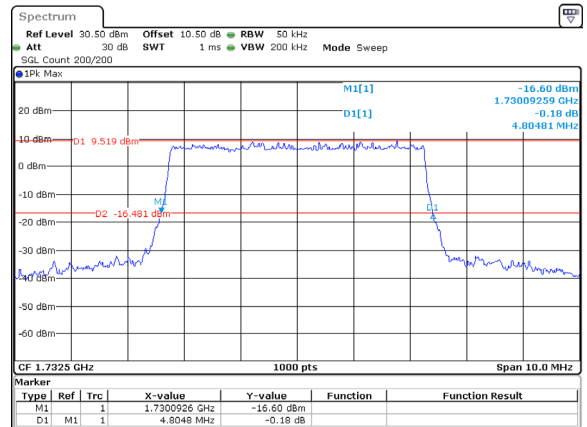
5MHz_Middle_QPSK_25@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:55:19

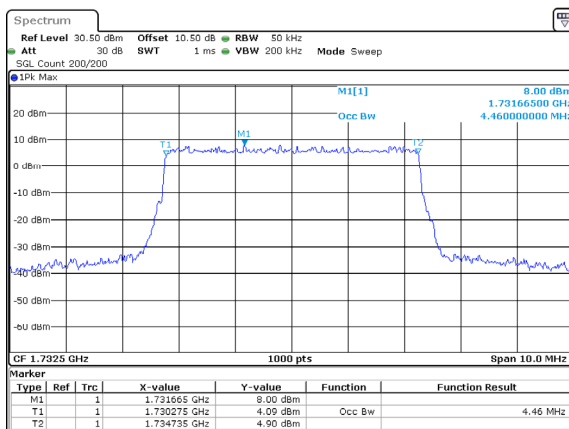
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:55:23

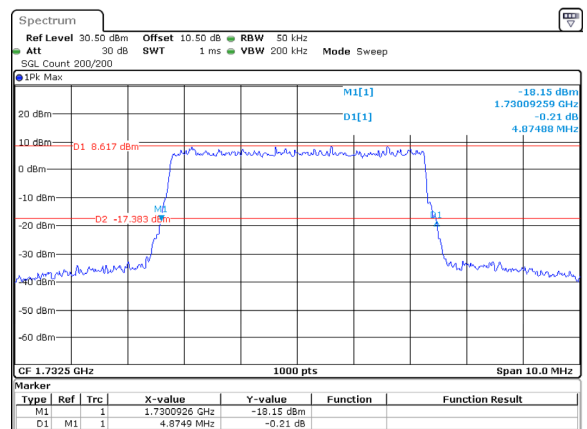
5MHz_Middle_16QAM_25@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:55:39

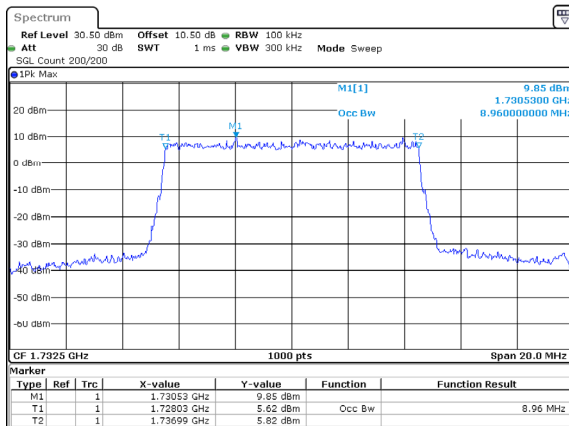
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:55:47

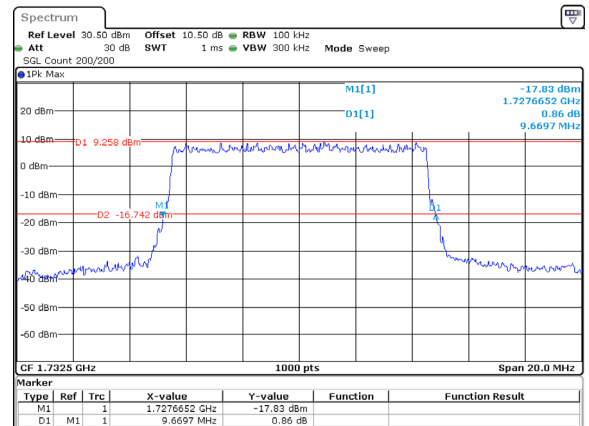
10MHz_Middle_QPSK_50@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:58:12

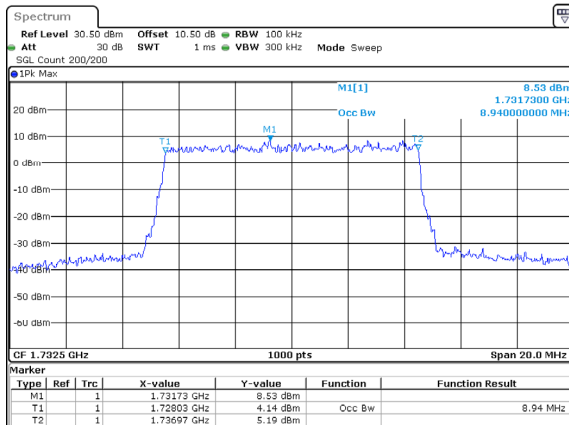
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:58:21

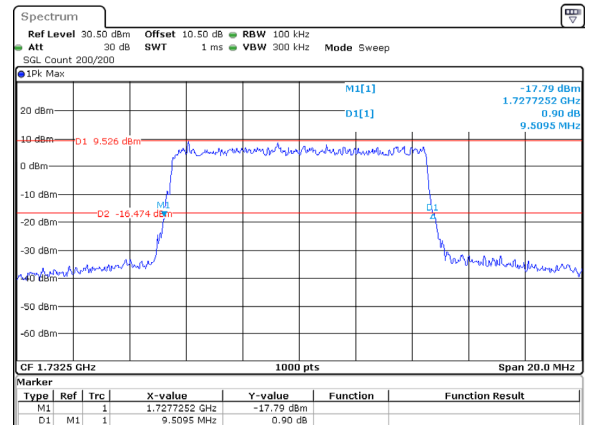
10MHz_Middle_16QAM_50@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:58:39

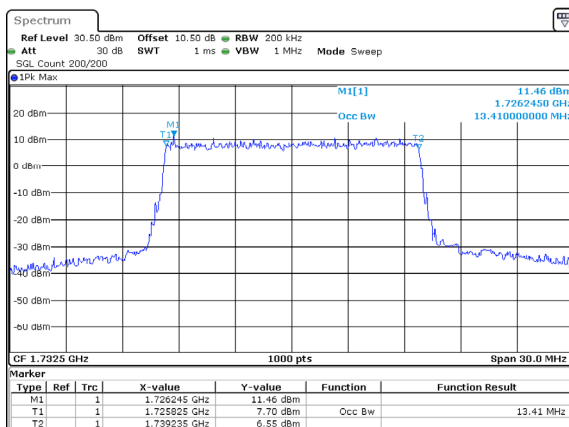
26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 21:58:48

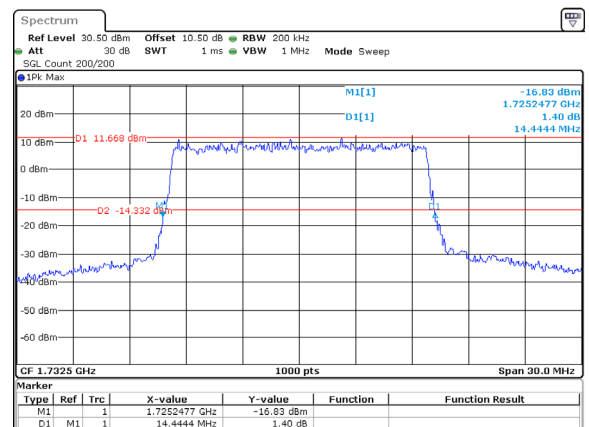
15MHz_Middle_QPSK_75@0

Occupied Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 22:04:01

26dB Bandwidth



ProjectNo.:2501S51531E-RF Tester:Usain Ou
Date: 2.MAY.2025 22:04:12