



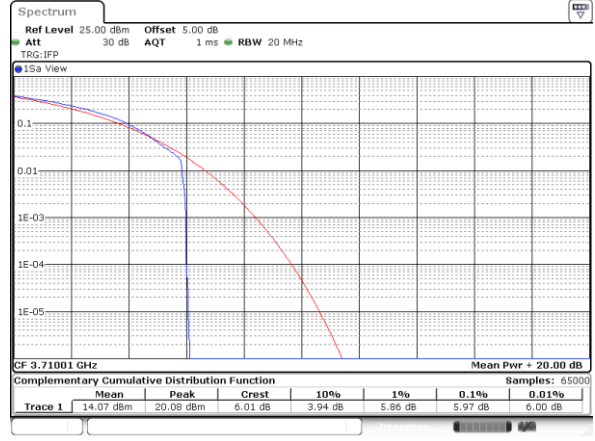
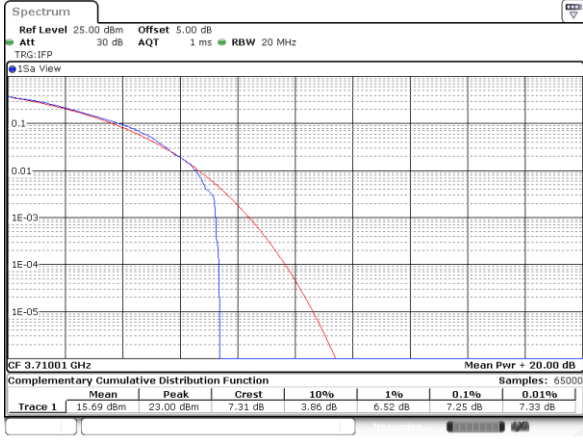
5G NR UL-MIMO n77 / 20MHz / CP-OFDM

QPSK(Ant4)

QPSK(Ant5)

Lowest Channel / 1RB

Lowest Channel / 1RB

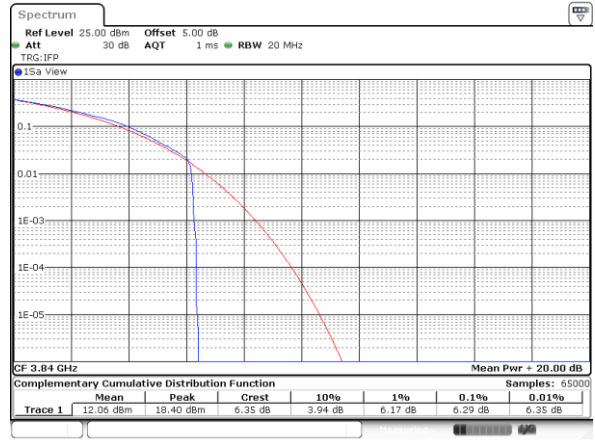
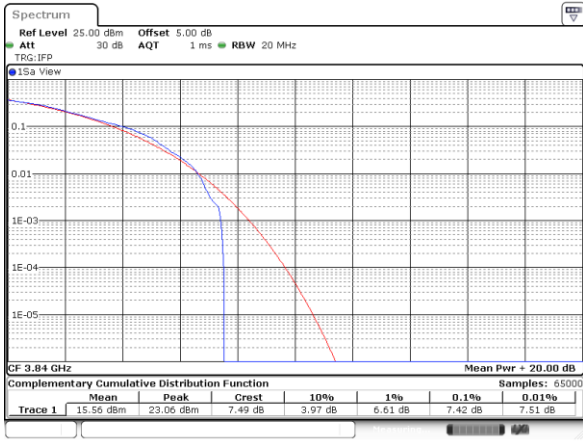


Date: 5.JUL.2021 14:21:24

Date: 2.JUL.2021 17:00:45

Middle Channel / 1 RB

Middle Channel / 1 RB

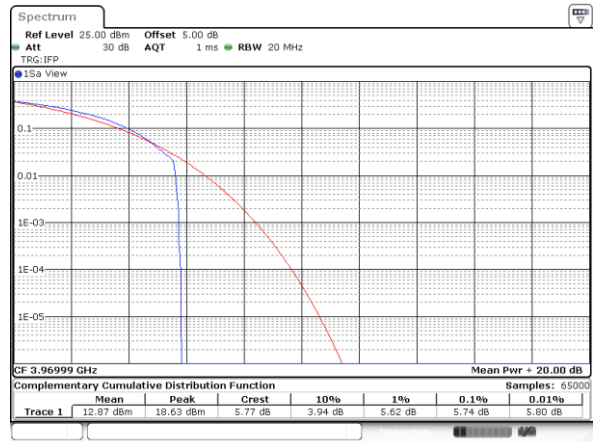
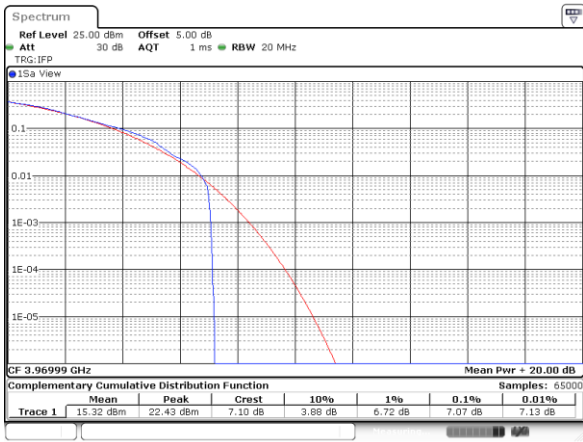


Date: 5.JUL.2021 14:16:11

Date: 2.JUL.2021 16:31:45

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 5.JUL.2021 14:36:34

Date: 2.JUL.2021 17:06:45



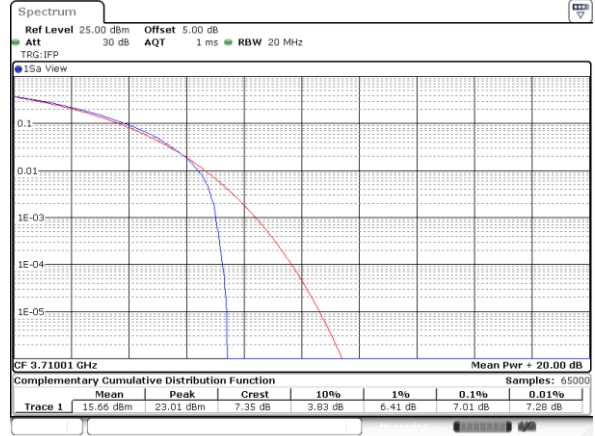
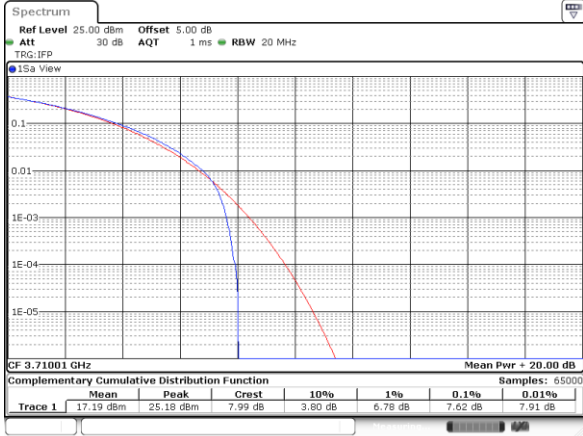
5G NR UL-MIMO n77 / 20MHz / CP-OFDM

QPSK(Ant4)

QPSK(Ant5)

Lowest Channel / Full RB

Lowest Channel / Full RB

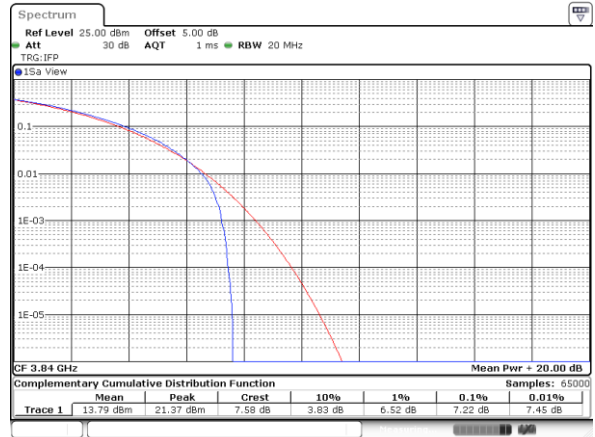
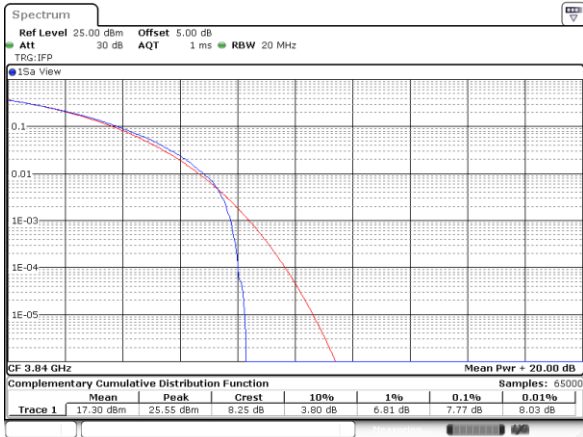


Date: 5..JUL.2021 14:21:52

Date: 2..JUL.2021 16:49:20

Middle Channel / Full RB

Middle Channel / Full RB

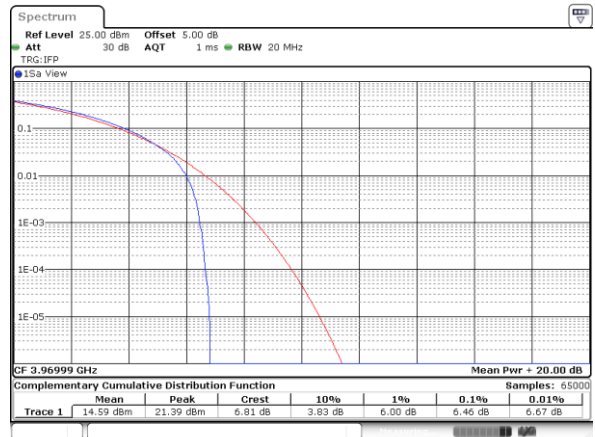
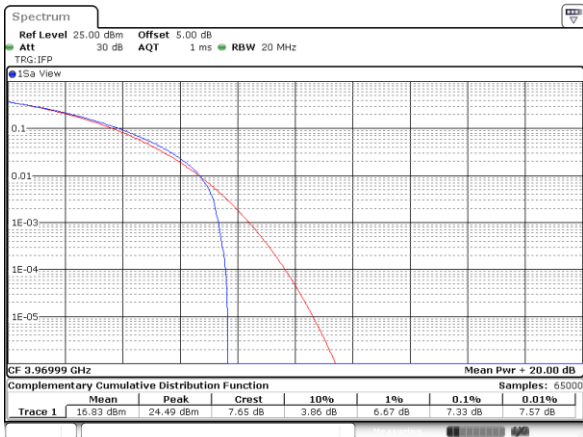


Date: 5..JUL.2021 14:12:49

Date: 2..JUL.2021 16:29:23

Highest Channel / Full RB

Highest Channel / Full RB



Date: 5..JUL.2021 14:35:13

Date: 2..JUL.2021 17:07:56



26dB Bandwidth

Mode	5G NR UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	19.221	19.021	18.981	19.381	19.061	19.341	19.50	19.181

Mode	5G NR UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	40.20	40.20	40.20	40.36	40.20	40.28	40.28	40.20

Mode	5G NR UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	49.75	49.55	49.65	49.75	49.65	49.75	49.75	49.65

Mode	5G NR UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	60.42	60.54	60.42	60.66	60.18	60.42	60.66	60.42

Mode	5G NR UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	79.92	79.92	80.24	79.92	79.92	80.08	79.92	79.76

Mode	5G NR UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	90.27	90.45	90.27	90.27	90.45	90.45	90.27	90.27



Mode	5G NR UL-MIMO n77 : 26dB BW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	100.50	100.50	100.50	100.30	100.50	100.50	100.70	100.70



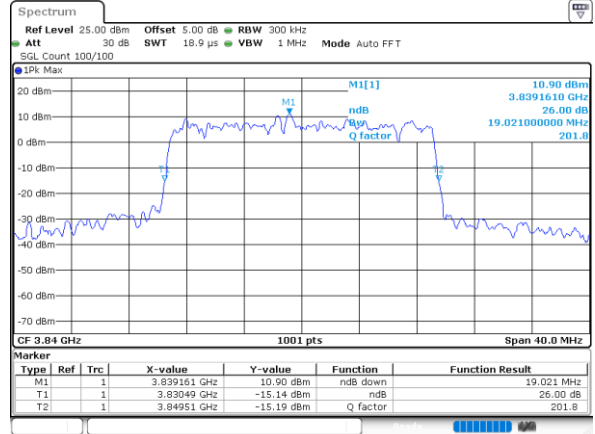
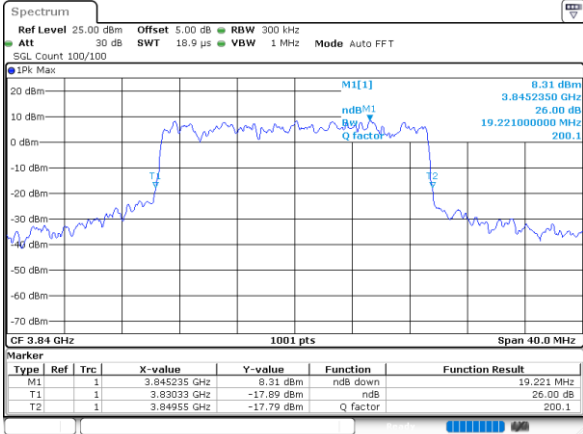
5G NR UL-MIMO n77 / 20MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:10:54

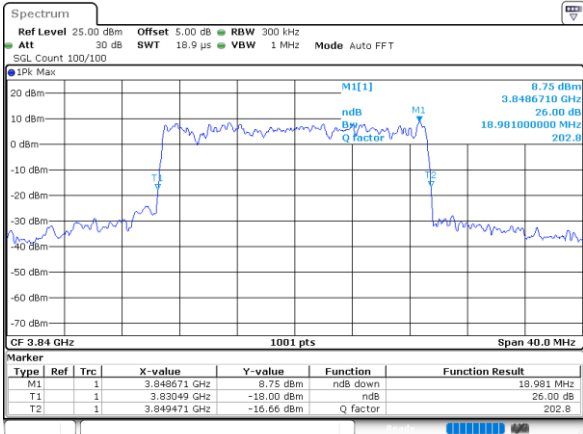
Date: 5.JUL.2021 14:13:46

64QAM

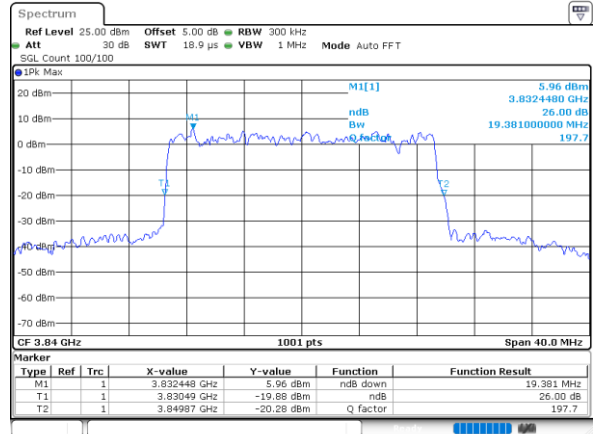
256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:14:36



Date: 5.JUL.2021 14:14:56



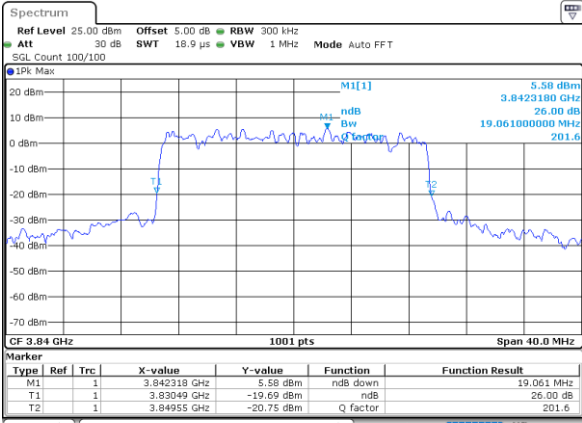
5G NR UL-MIMO n77 / 20MHz / CP-OFDM (Ant5)

QPSK

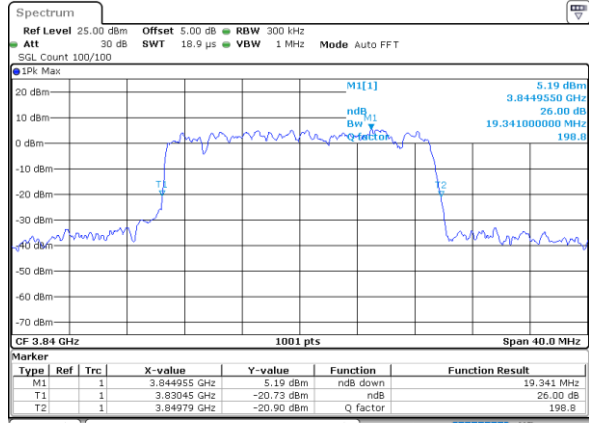
16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 16:29:08



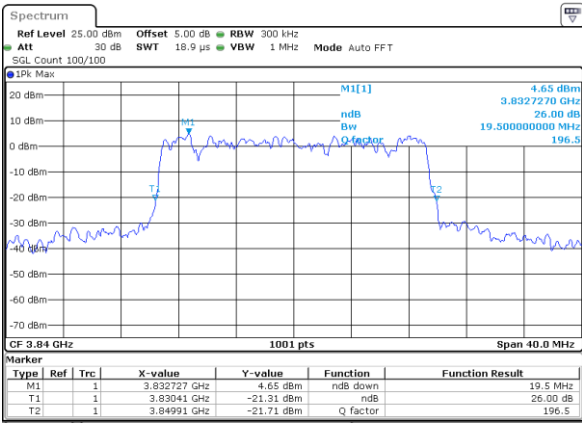
Date: 2.JUL.2021 16:30:33

64QAM

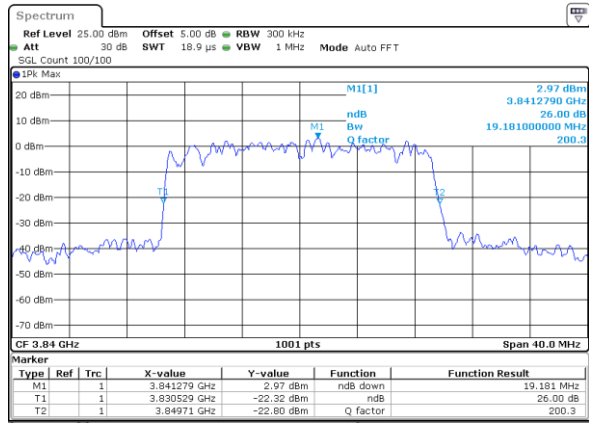
256QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 16:41:05



Date: 2.JUL.2021 16:41:25



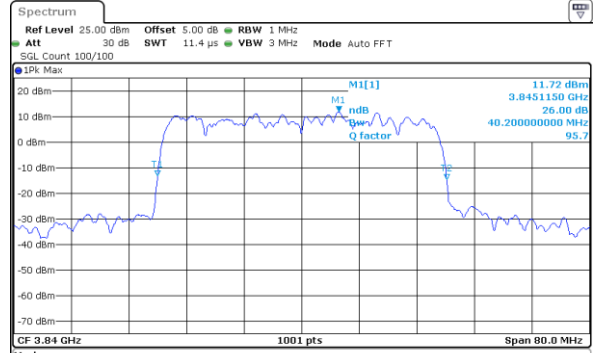
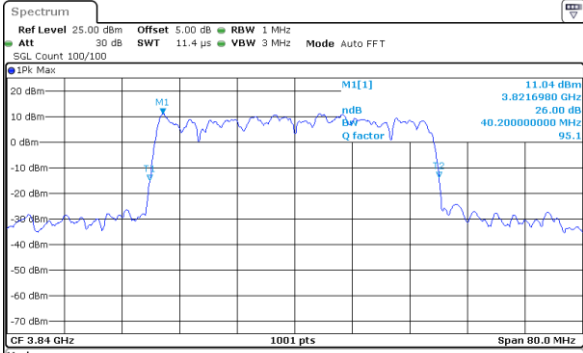
5G NR UL-MIMO n77 / 40MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:37:34

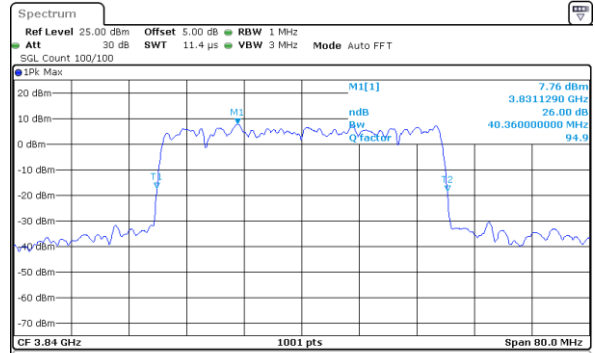
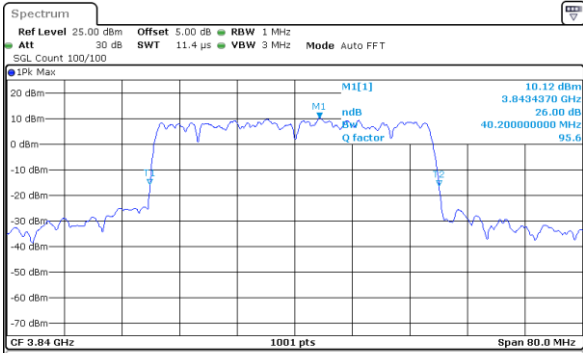
Date: 5.JUL.2021 14:37:52

64QAM

256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:38:18

Date: 5.JUL.2021 14:38:41



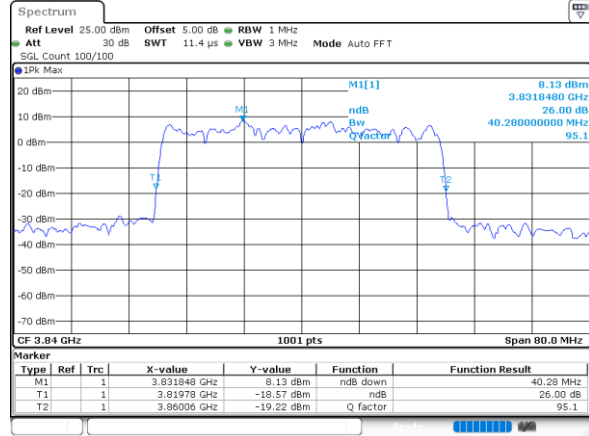
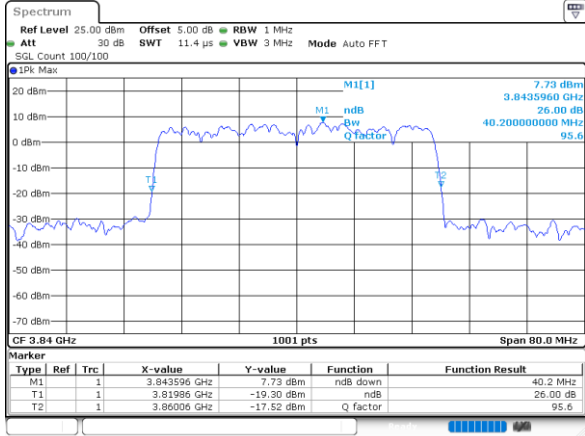
5G NR UL-MIMO n77 / 40MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 2..JUL.2021 17:10:01

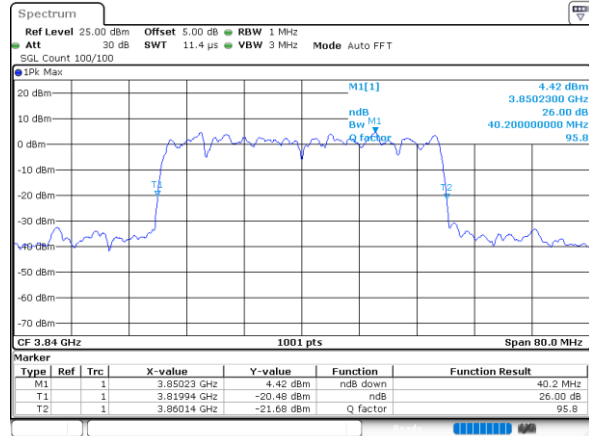
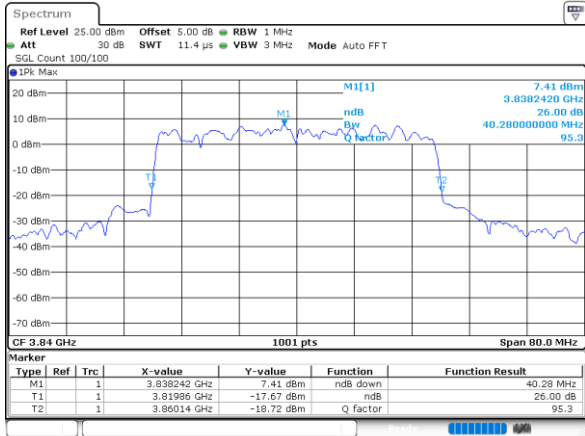
Date: 2..JUL.2021 17:10:32

64QAM

256QAM

Middle Channel

Middle Channel



Date: 2..JUL.2021 17:11:06

Date: 2..JUL.2021 17:11:24



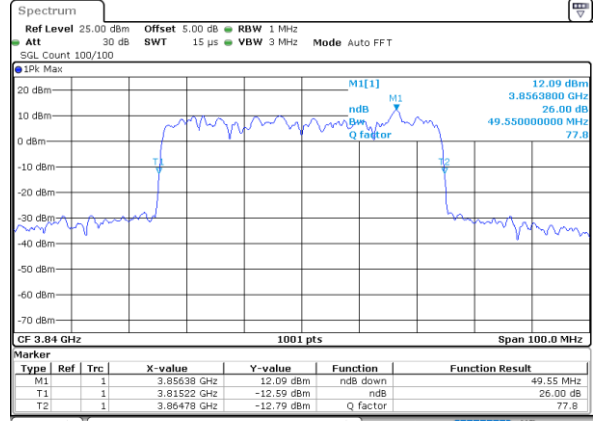
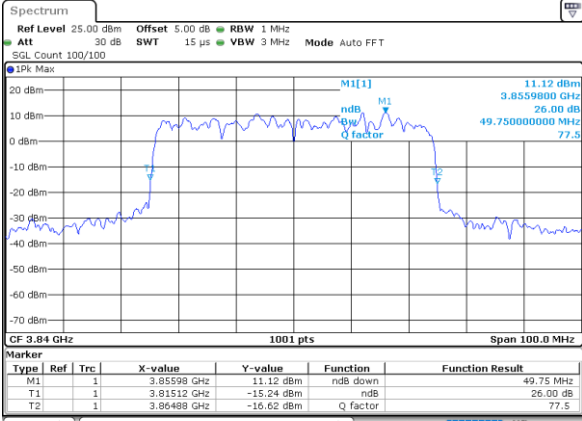
5G NR UL-MIMO n77 / 50MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:39:46

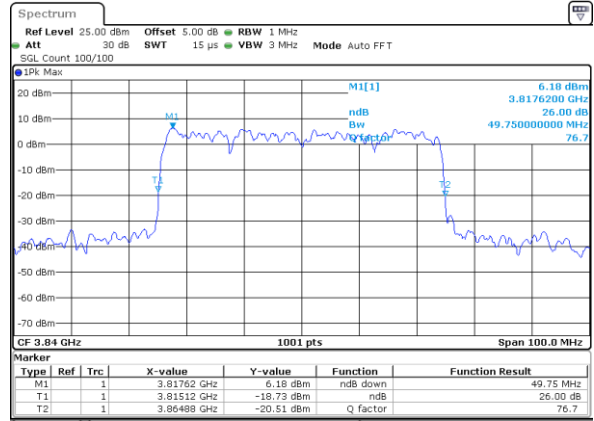
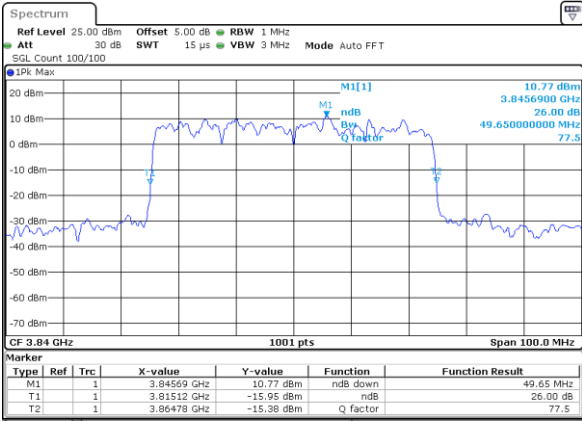
Date: 5.JUL.2021 14:40:03

64QAM

256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:40:20

Date: 5.JUL.2021 14:40:42



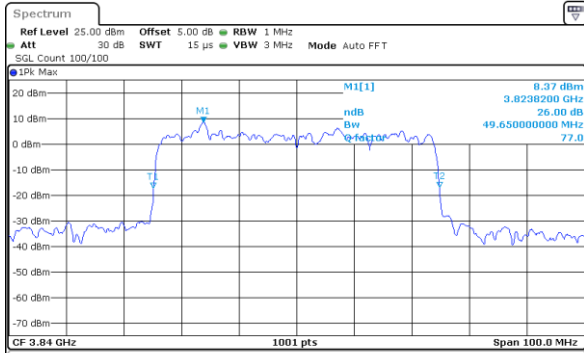
5G NR UL-MIMO n77 / 50MHz / CP-OFDM (Ant5)

QPSK

16QAM

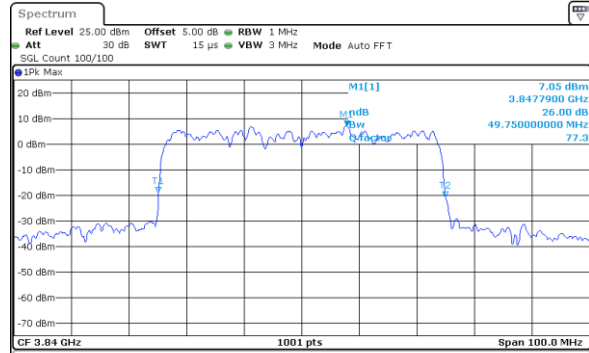
Middle Channel

Middle Channel



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		3.82382 GHz	8.37 dBm	ndB down	49.65 MHz
T1	1		3.81512 GHz	-17.24 dBm	ndB	26.00 dB
T2	1		3.86478 GHz	-17.05 dBm	Q factor	77.0

Date: 2..JUL.2021 17:14:134



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		3.84779 GHz	7.05 dBm	ndB down	49.75 MHz
T1	1		3.81512 GHz	-19.03 dBm	ndB	26.00 dB
T2	1		3.86488 GHz	-20.63 dBm	Q factor	77.3

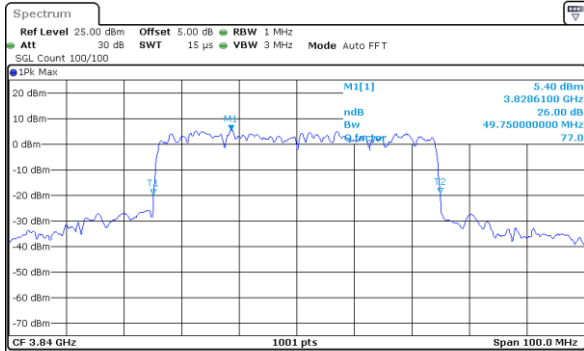
Date: 2..JUL.2021 17:14:56

64QAM

256QAM

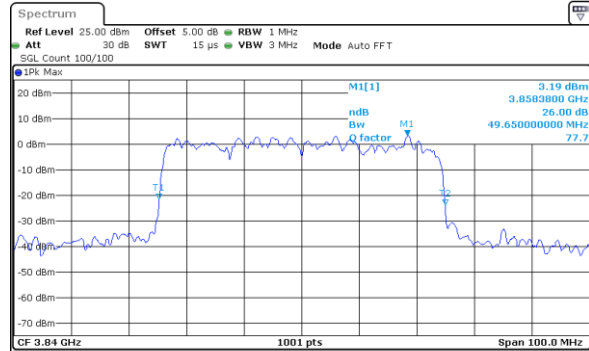
Middle Channel

Middle Channel



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		3.82861 GHz	5.40 dBm	ndB down	49.75 MHz
T1	1		3.81512 GHz	-19.85 dBm	ndB	26.00 dB
T2	1		3.86488 GHz	-19.40 dBm	Q factor	77.0

Date: 2..JUL.2021 17:15:113



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		3.85838 GHz	3.19 dBm	ndB down	49.65 MHz
T1	1		3.81522 GHz	-21.68 dBm	ndB	26.00 dB
T2	1		3.86488 GHz	-23.99 dBm	Q factor	77.7

Date: 2..JUL.2021 17:15:30



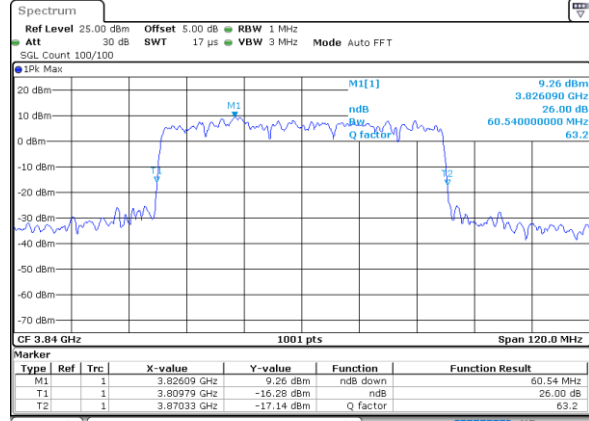
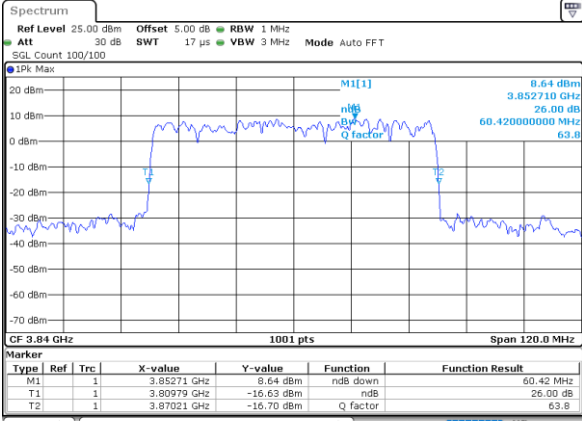
5G NR UL-MIMO n77 / 60MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:41:25

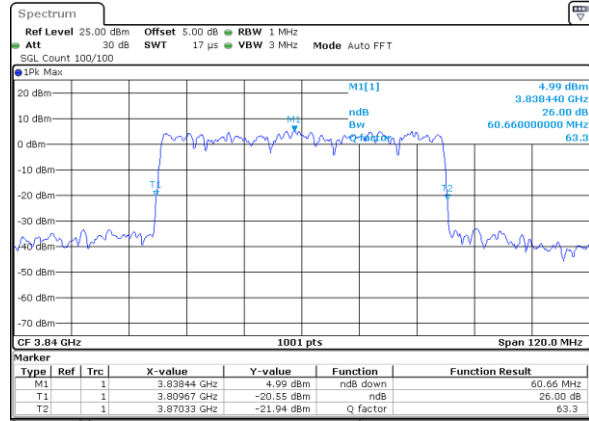
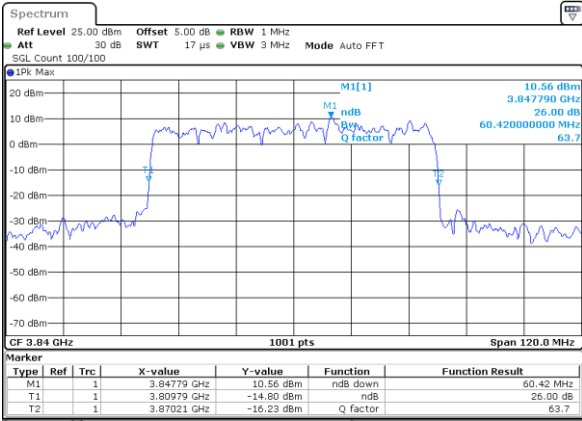
Date: 5.JUL.2021 14:41:43

64QAM

256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:41:58

Date: 5.JUL.2021 14:42:15



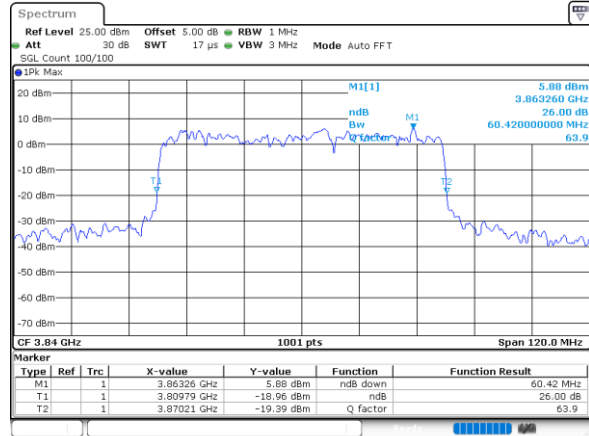
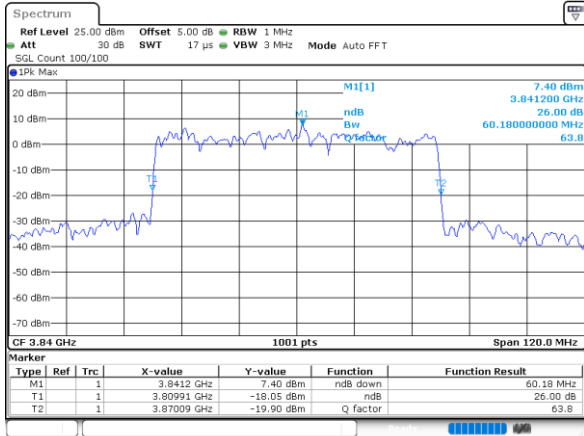
5G NR UL-MIMO n77 / 60MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:16:21

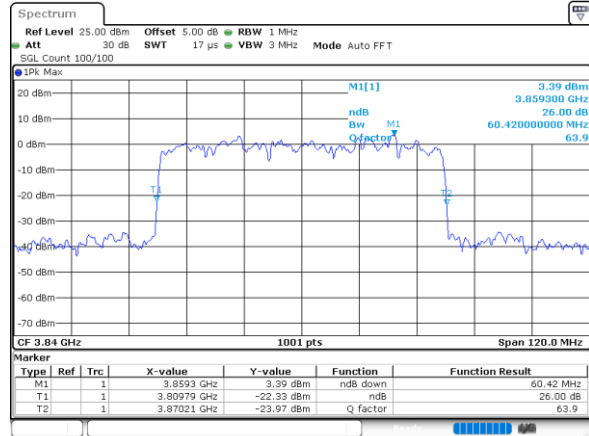
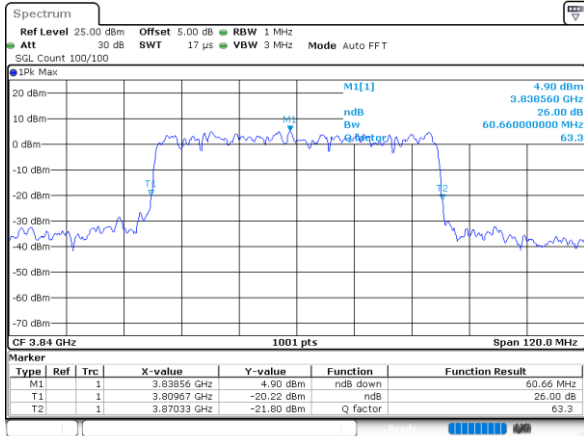
Date: 2.JUL.2021 17:16:42

64QAM

256QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:16:59

Date: 2.JUL.2021 17:17:14



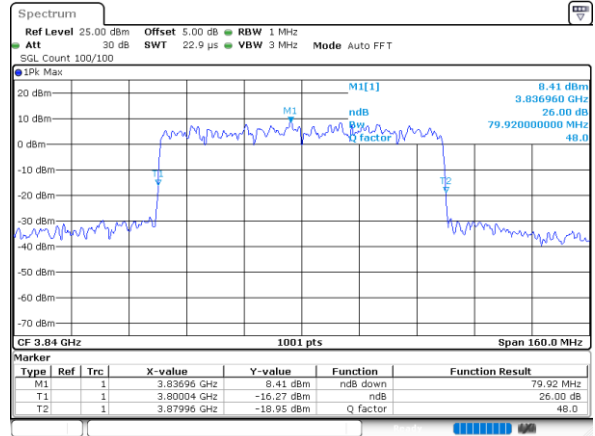
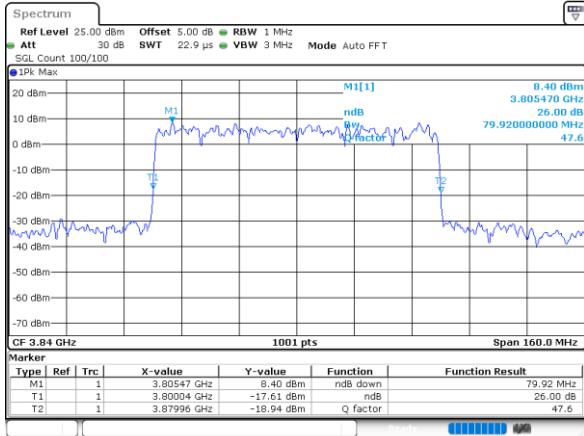
5G NR UL-MIMO n77 / 80MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:42:51

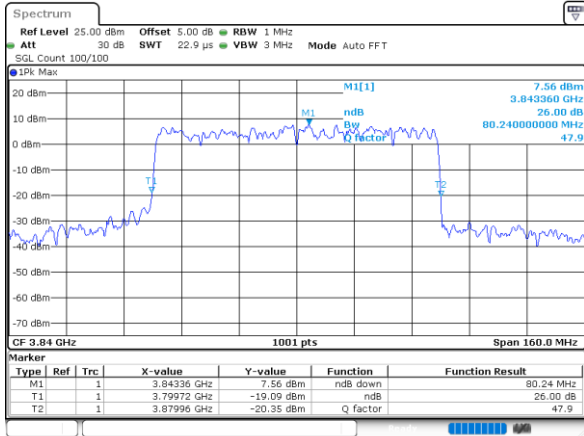
Date: 5.JUL.2021 14:43:07

64QAM

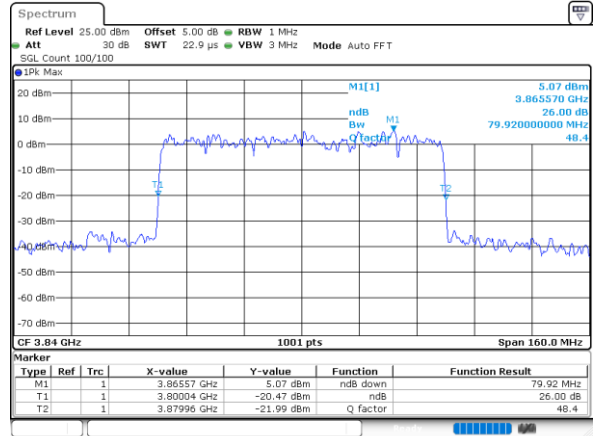
256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:43:25



Date: 5.JUL.2021 14:43:43



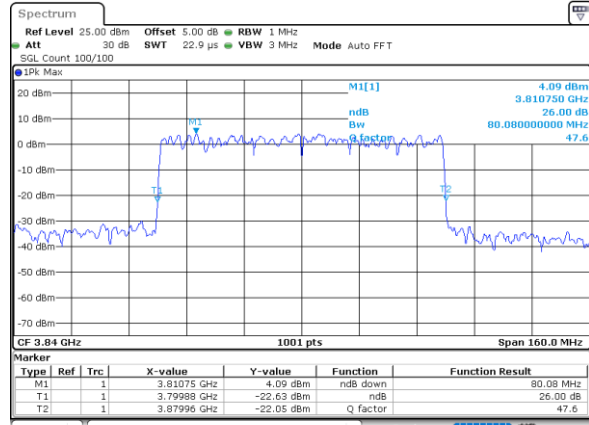
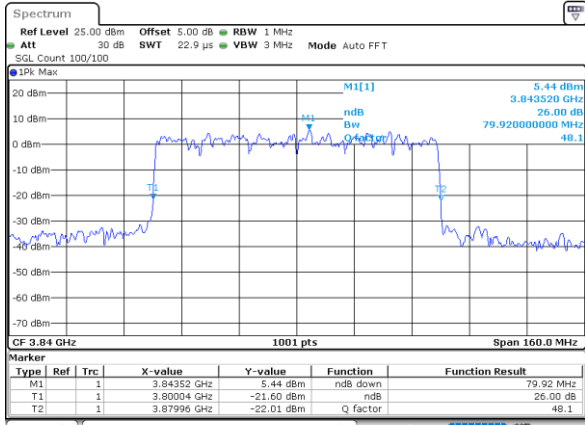
5G NR UL-MIMO n77 / 80MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:17:51

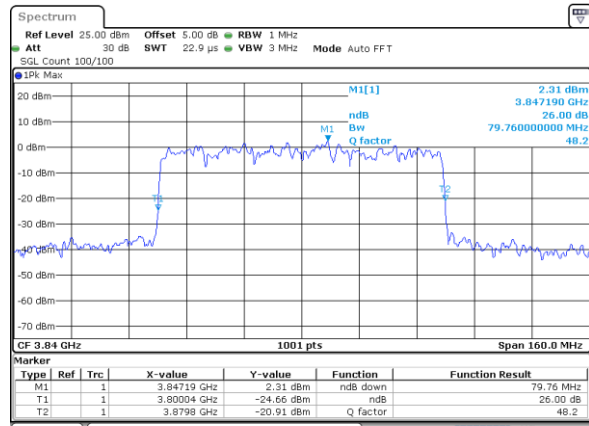
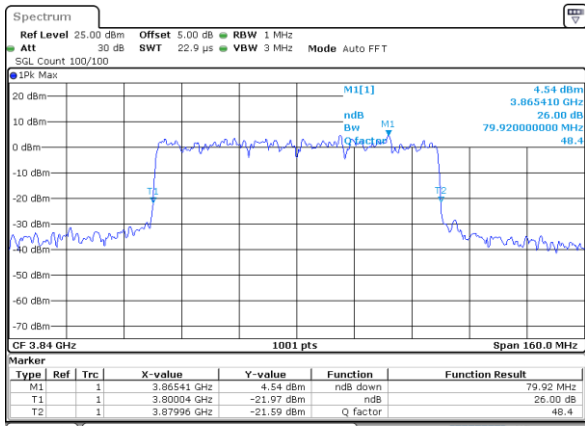
Date: 2.JUL.2021 17:18:18

64QAM

256QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:18:35

Date: 2.JUL.2021 17:18:51



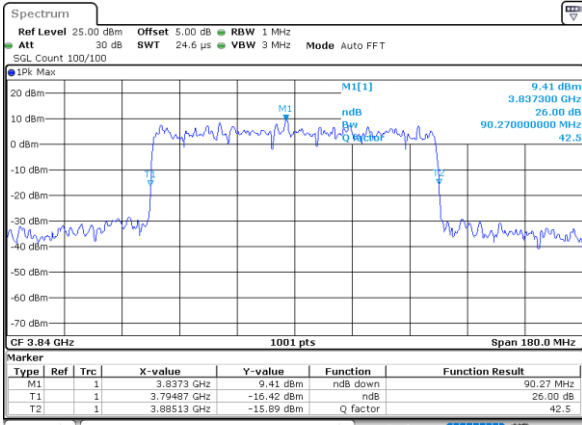
5G NR UL-MIMO n77 / 90MHz / CP-OFDM (Ant4)

QPSK

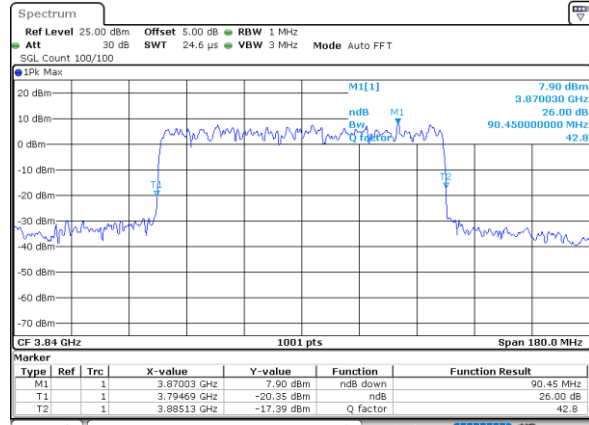
16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:44:28



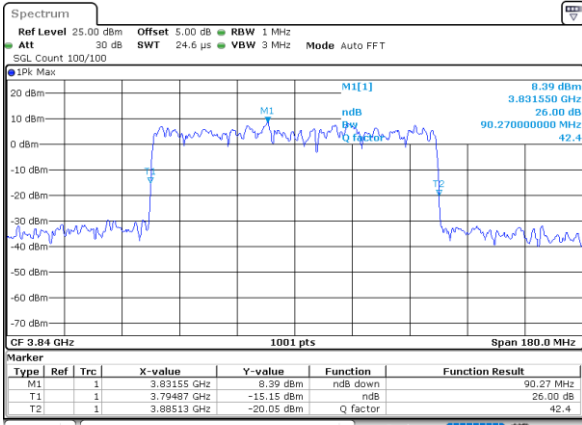
Date: 5.JUL.2021 14:44:46

64QAM

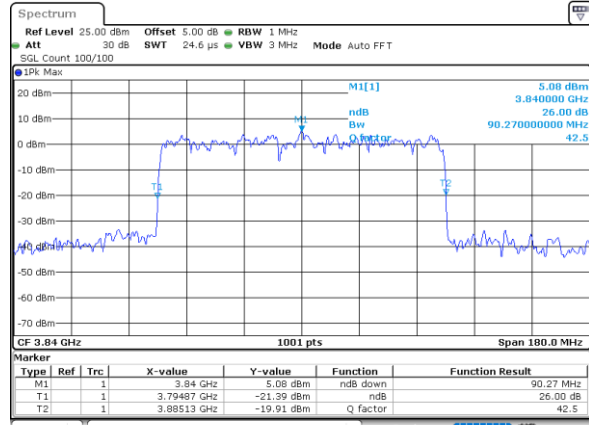
256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:45:04



Date: 5.JUL.2021 14:45:21



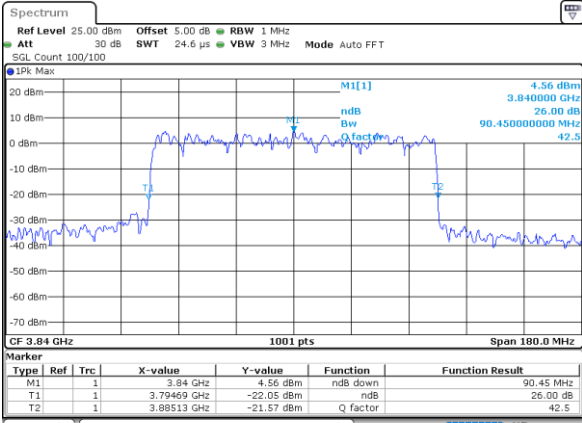
5G NR UL-MIMO n77 / 90MHz / CP-OFDM (Ant5)

QPSK

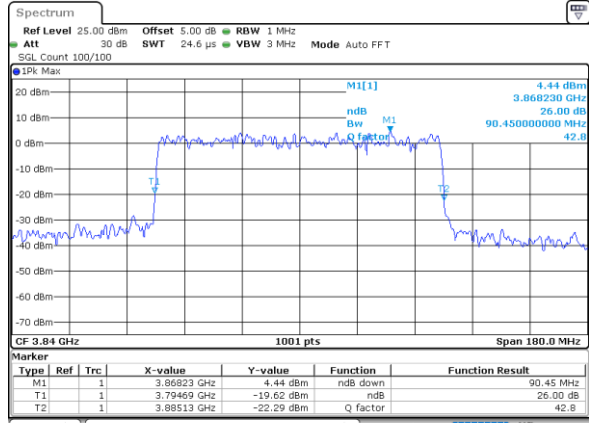
16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:19:28



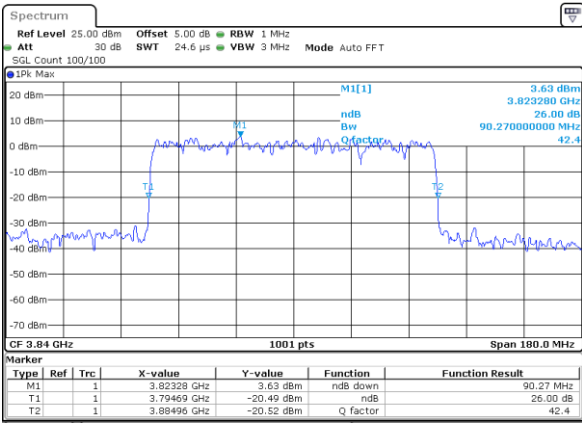
Date: 2.JUL.2021 17:19:46

64QAM

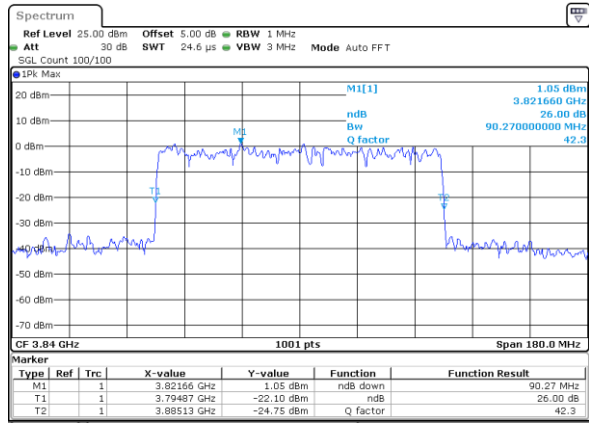
256QAM

Middle Channel

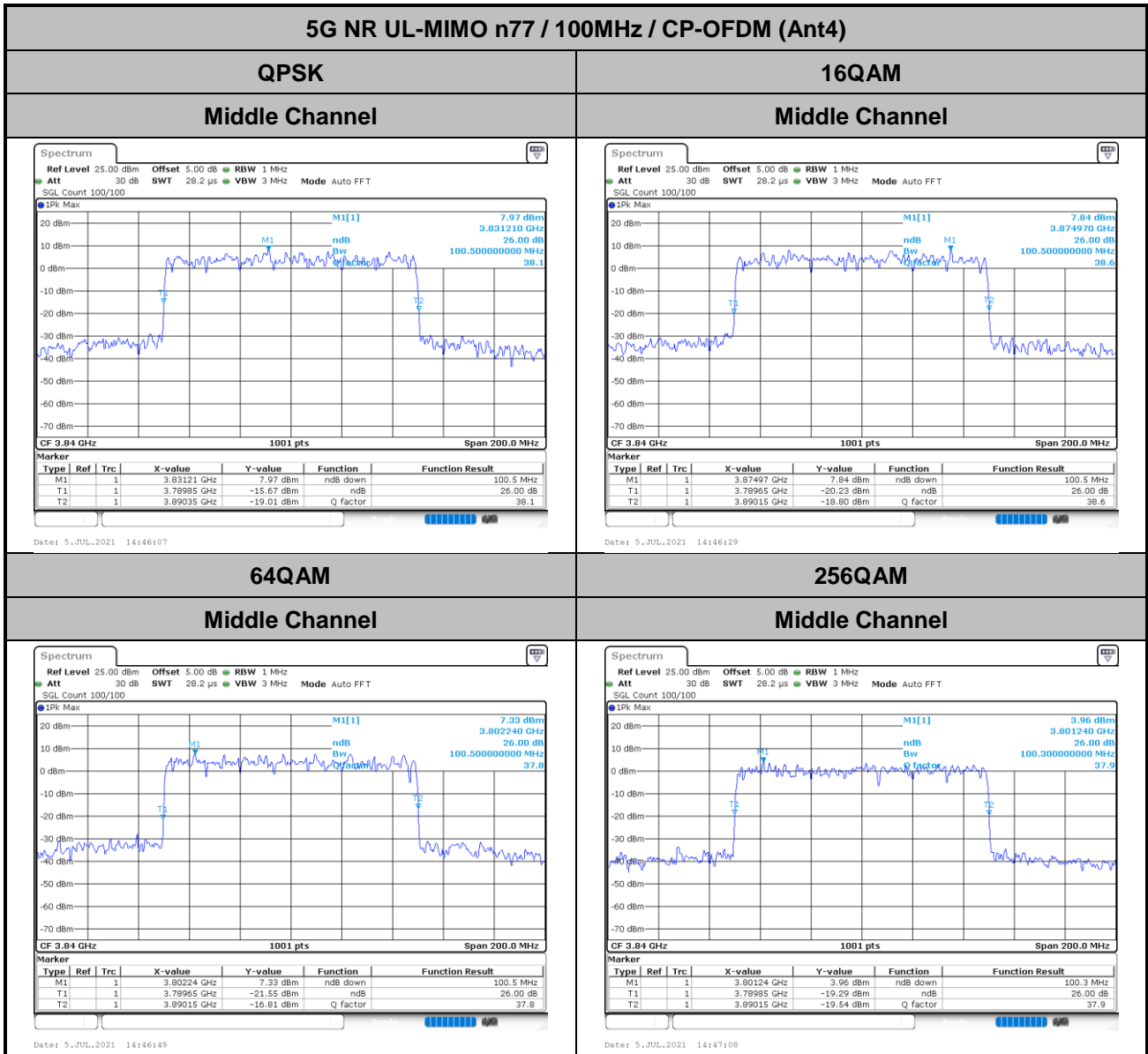
Middle Channel

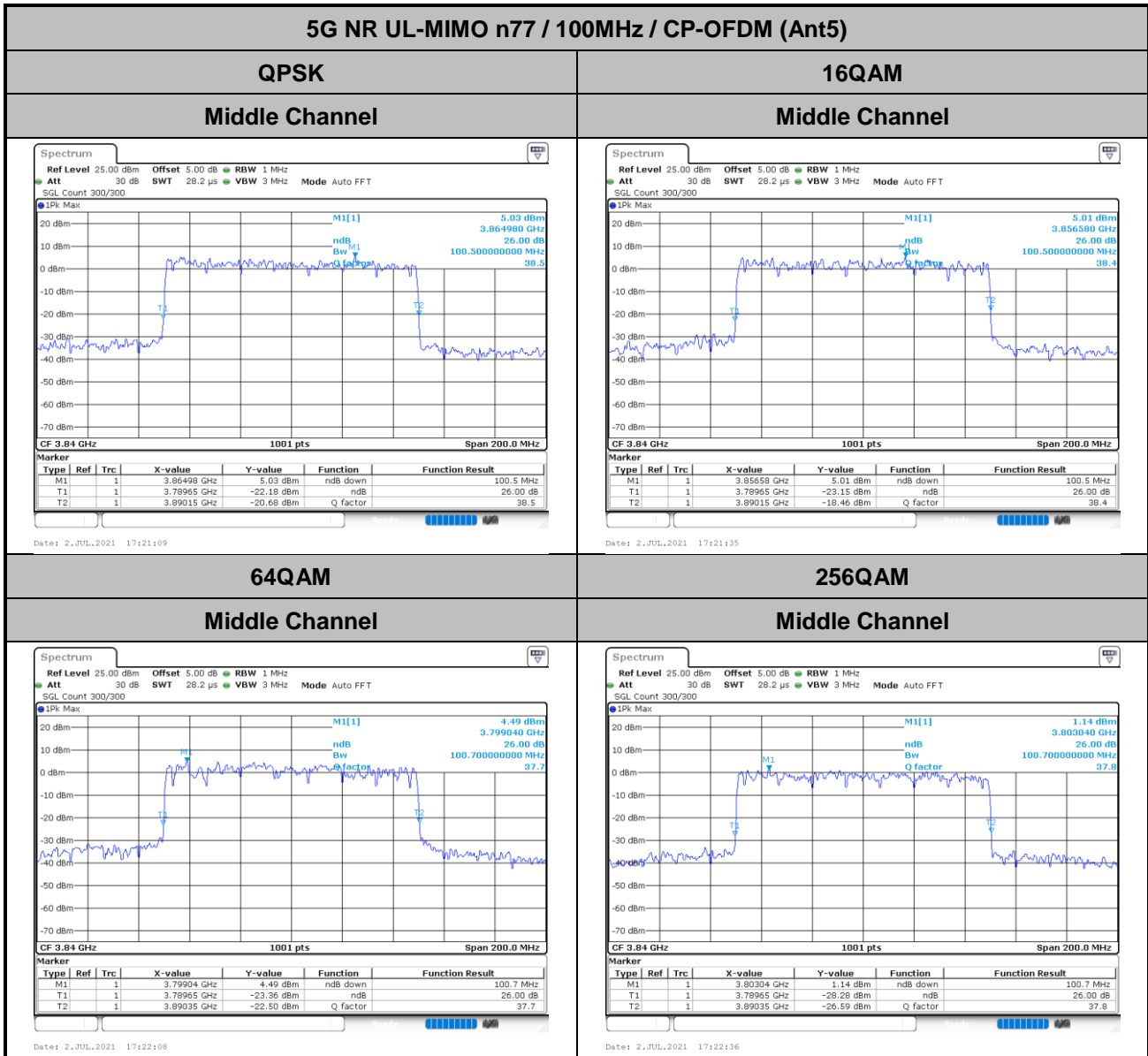


Date: 2.JUL.2021 17:20:05



Date: 2.JUL.2021 17:20:22







Occupied Bandwidth

Mode	5G NR UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	18.22	18.10	18.22	18.30	18.34	18.18	18.22	18.26

Mode	5G NR UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz	40MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	37.88	38.20	37.96	38.12	37.80	38.12	38.20	37.96

Mode	5G NR UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz	50MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	47.65	47.35	47.25	47.35	47.75	47.45	47.75	47.45

Mode	5G NR UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz	60MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	58.14	57.90	57.90	57.78	58.02	57.90	57.78	58.14

Mode	5G NR UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz	80MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	77.52	77.68	77.52	76.88	77.84	77.68	77.36	77.68

Mode	5G NR UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz	90MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	87.39	87.75	87.21	87.57	87.57	87.57	87.03	87.21



Mode	5G NR UL-MIMO n77 : OBW(MHz) / CP-OFDM							
	Ant4				Ant5			
BW	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz	100MHz
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	97.70	97.70	97.30	96.90	97.50	97.50	97.50	97.50



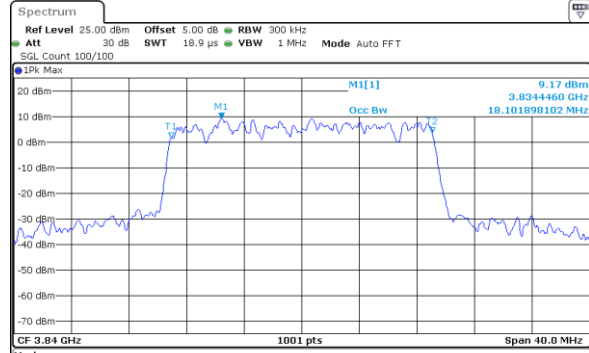
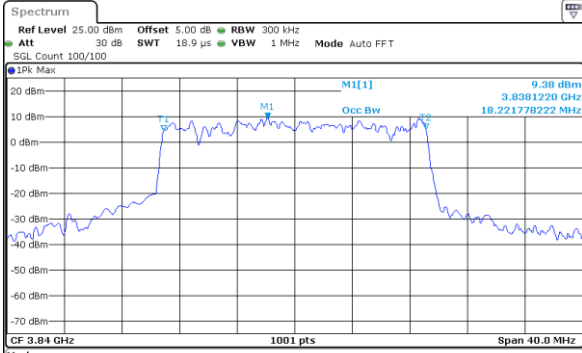
5G NR UL-MIMO n77 / 20MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:10:49

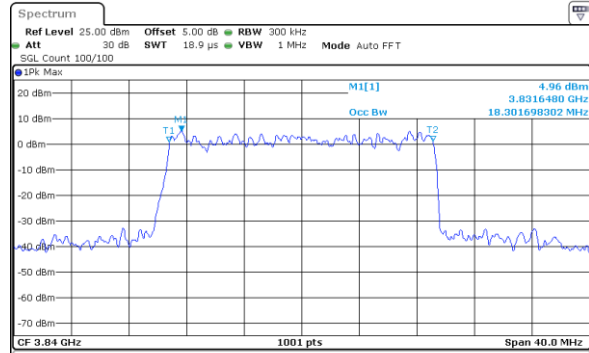
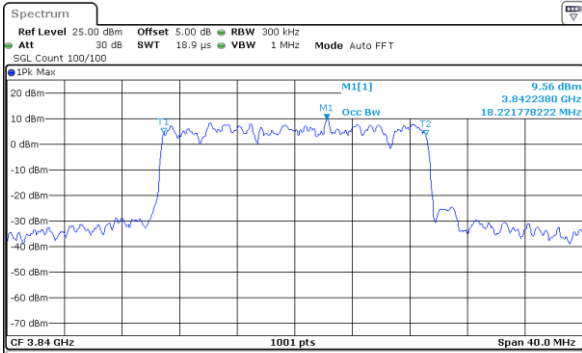
Date: 5.JUL.2021 14:13:41

64QAM

256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:14:09

Date: 5.JUL.2021 14:14:50



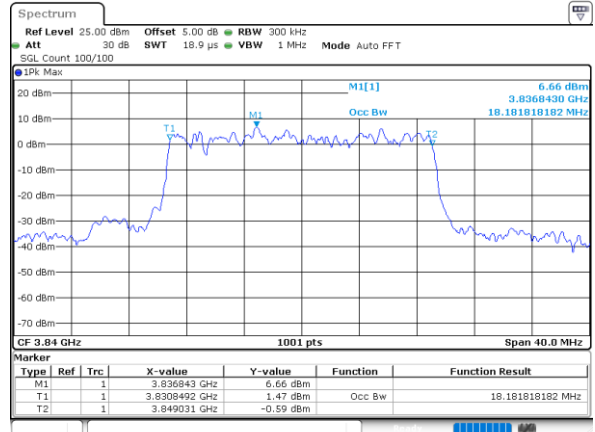
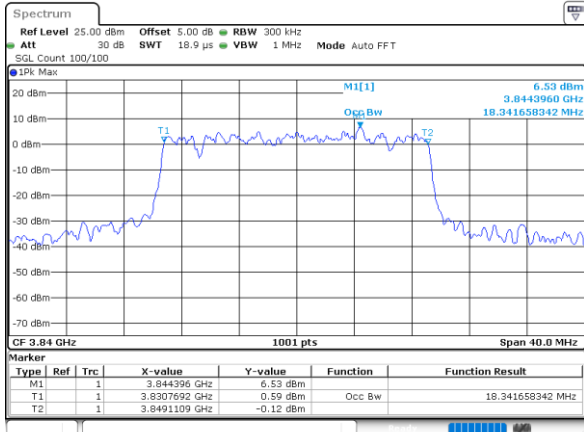
5G NR UL-MIMO n77 / 20MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 16:29:03

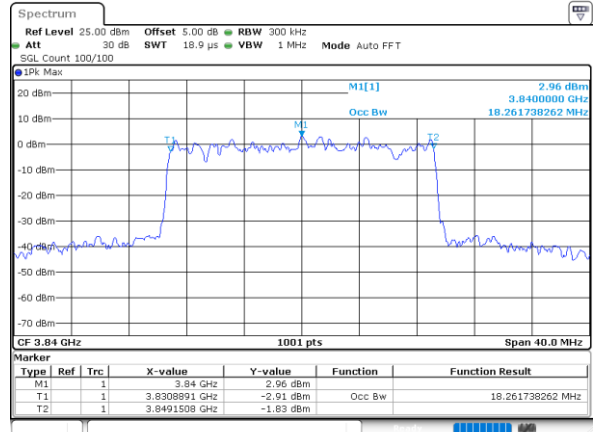
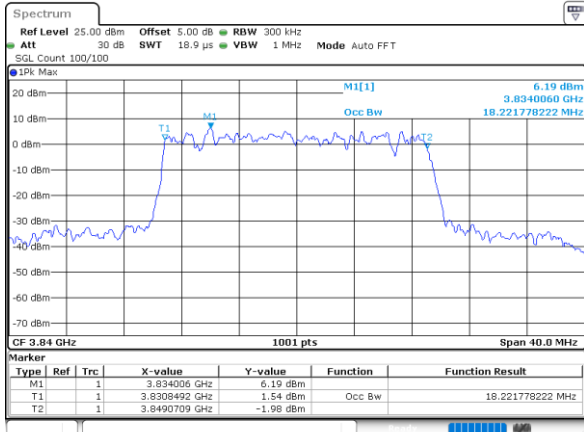
Date: 2.JUL.2021 16:30:28

64QAM

256QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 16:41:01

Date: 2.JUL.2021 16:41:20



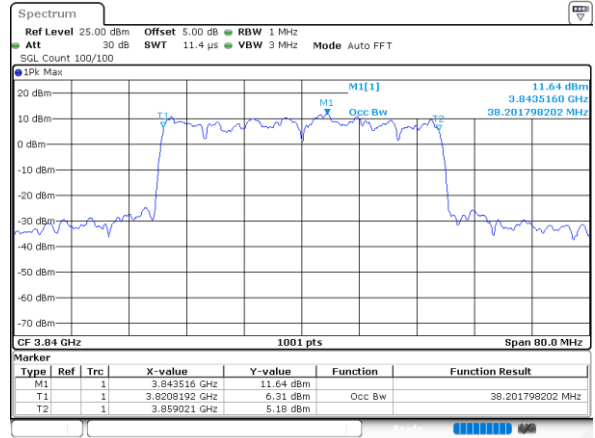
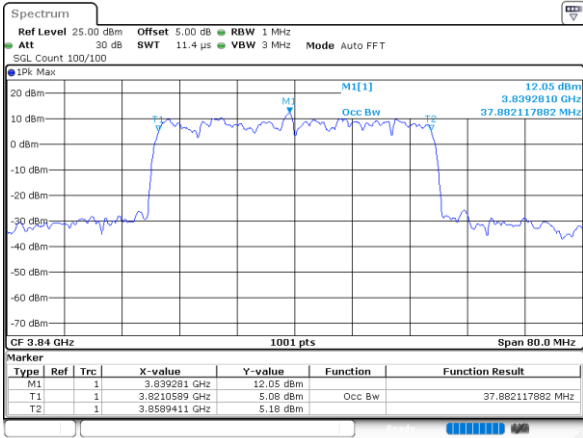
5G NR UL-MIMO n77 / 40MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:37:29

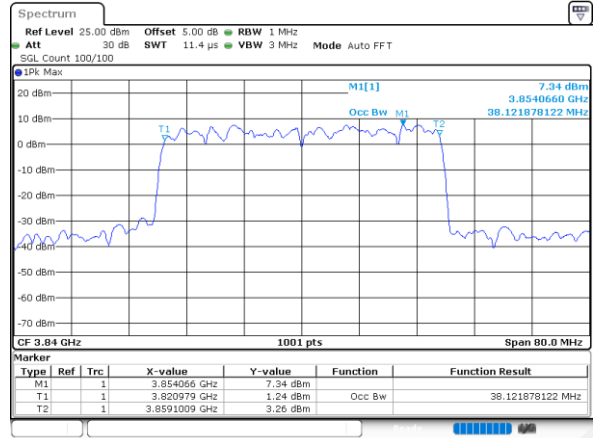
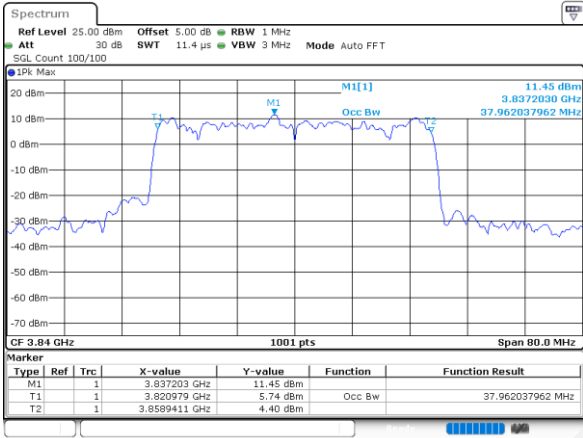
Date: 5.JUL.2021 14:37:48

64QAM

256QAM

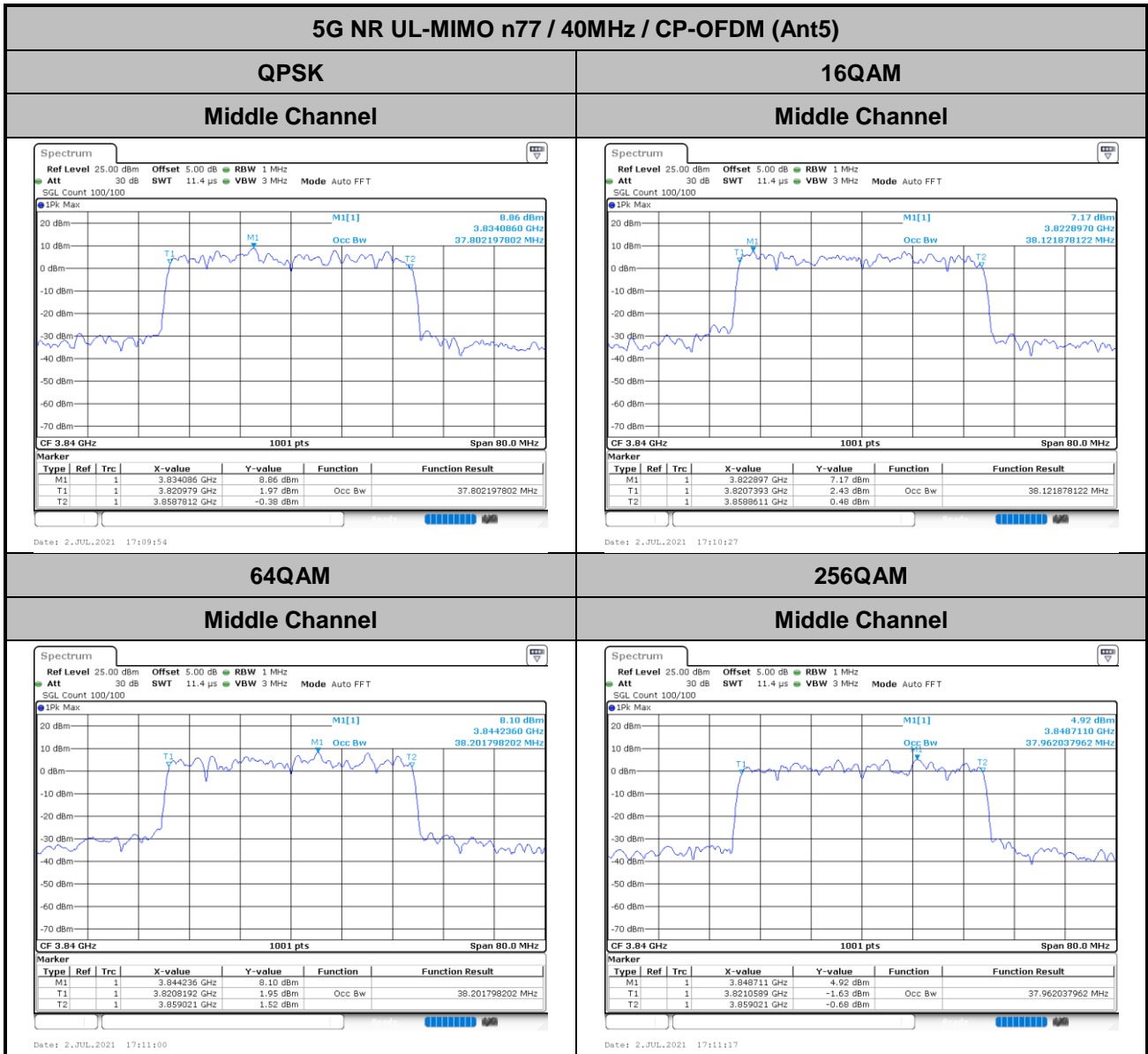
Middle Channel

Middle Channel



Date: 5.JUL.2021 14:38:04

Date: 5.JUL.2021 14:38:33





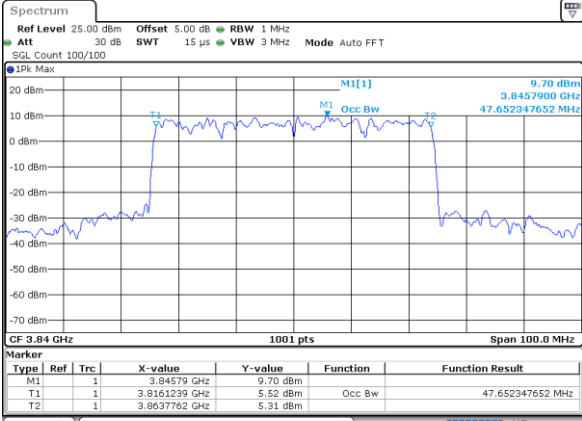
5G NR UL-MIMO n77 / 50MHz / CP-OFDM (ANT4)

QPSK

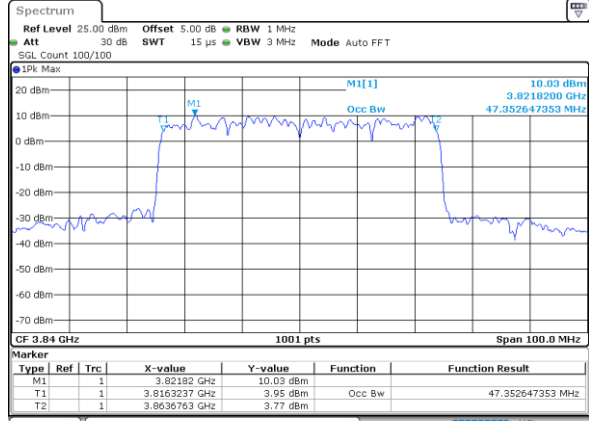
16QAM

Middle Channel

Middle Channel



Date: 5 JUL 2021 14:39:41



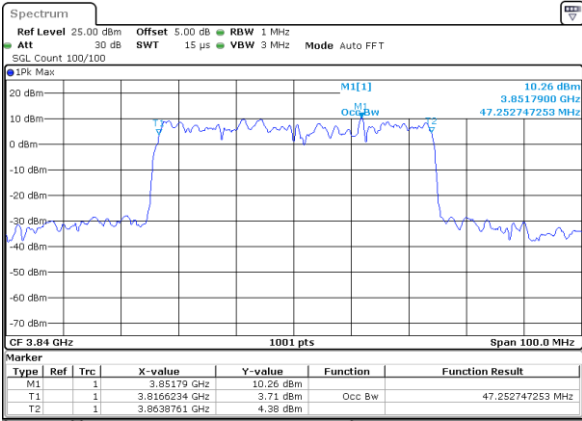
Date: 5 JUL 2021 14:39:58

64QAM

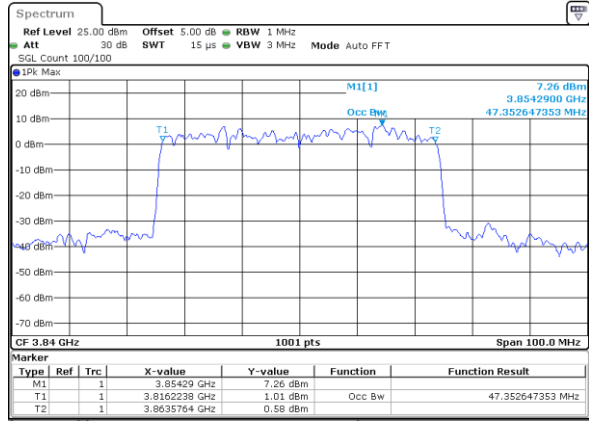
256QAM

Middle Channel

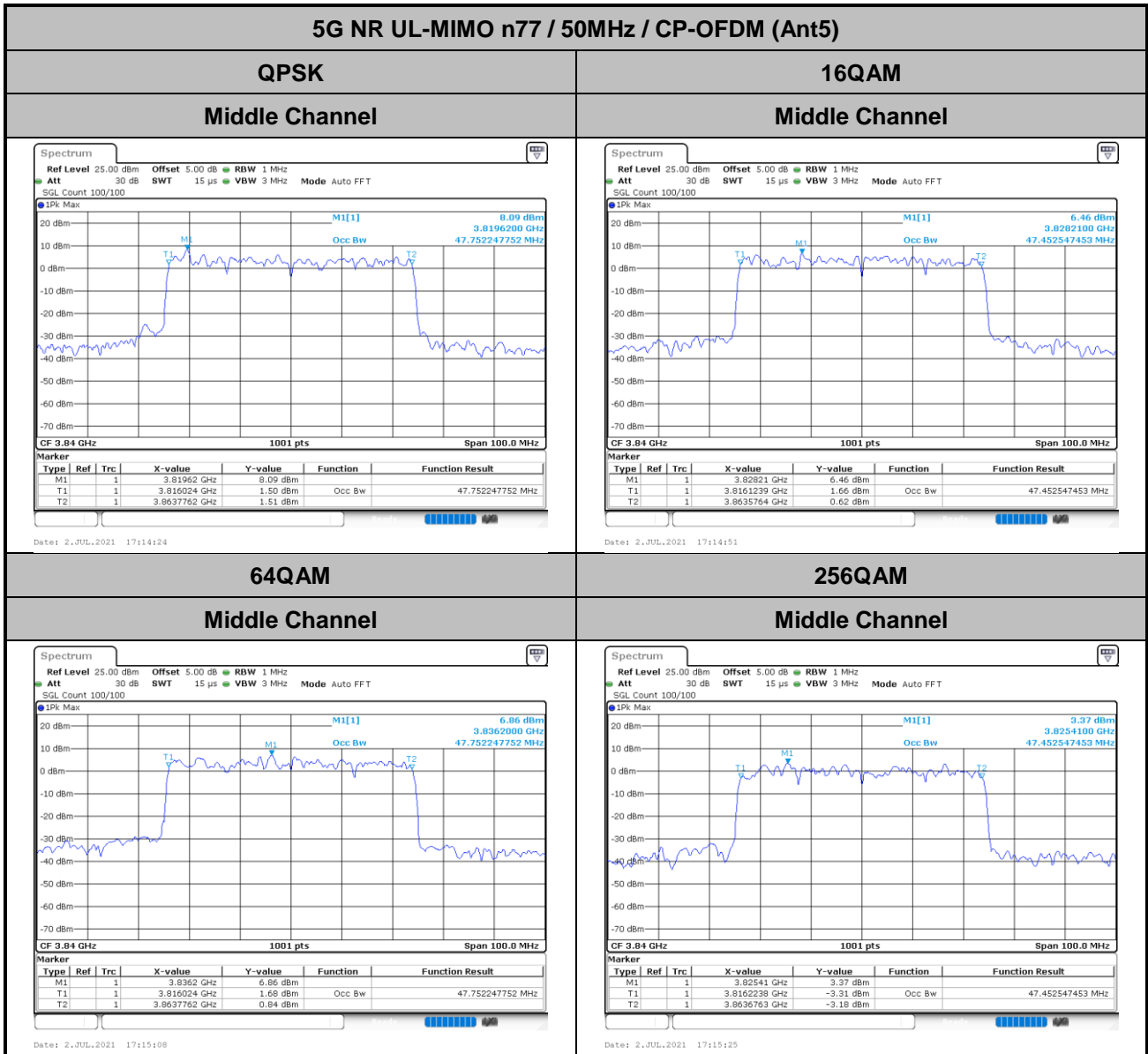
Middle Channel



Date: 5 JUL 2021 14:40:15



Date: 5 JUL 2021 14:40:37





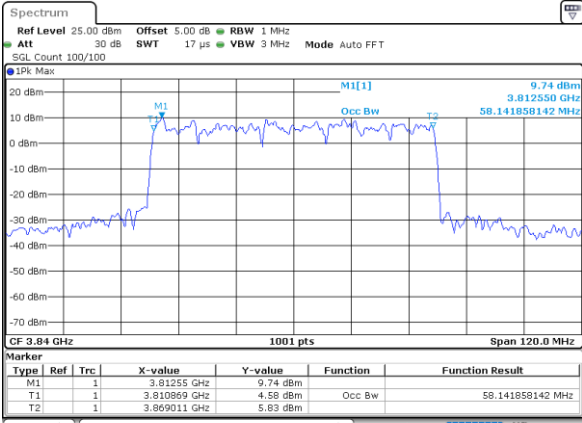
5G NR UL-MIMO n77 / 60MHz / CP-OFDM (ANT4)

QPSK

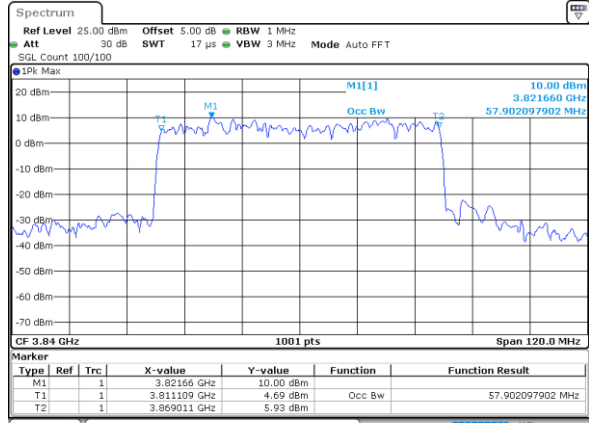
16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:41:20



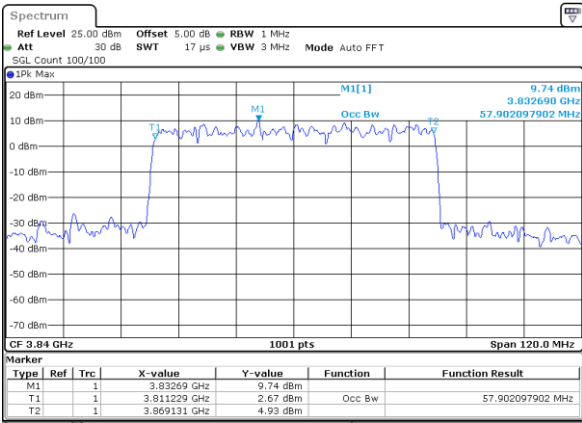
Date: 5.JUL.2021 14:41:38

64QAM

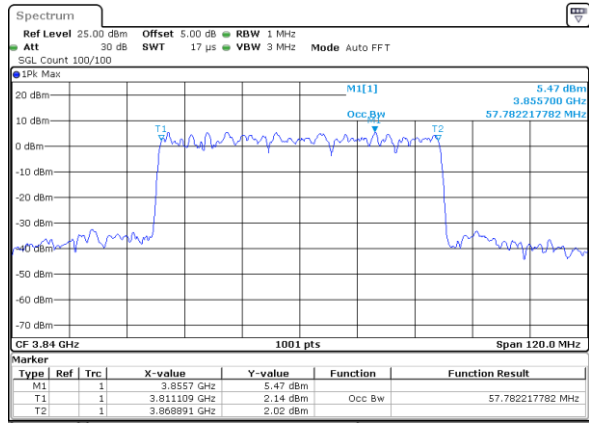
256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:41:53



Date: 5.JUL.2021 14:42:10



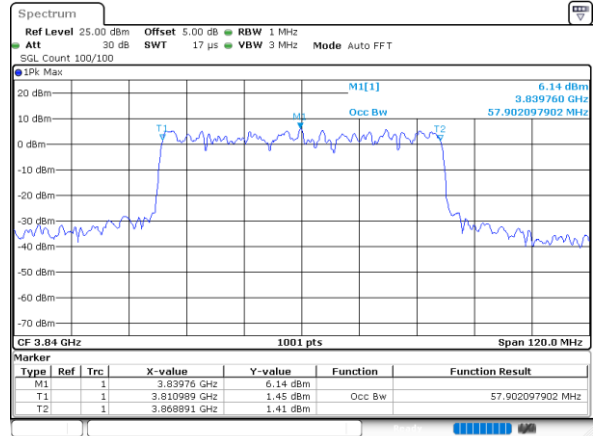
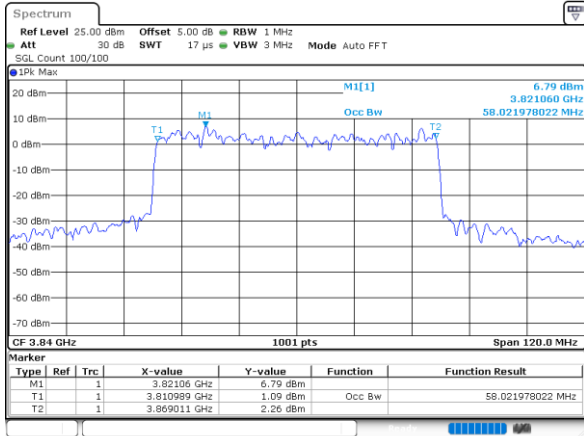
5G NR UL-MIMO n77 / 60MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:16:14

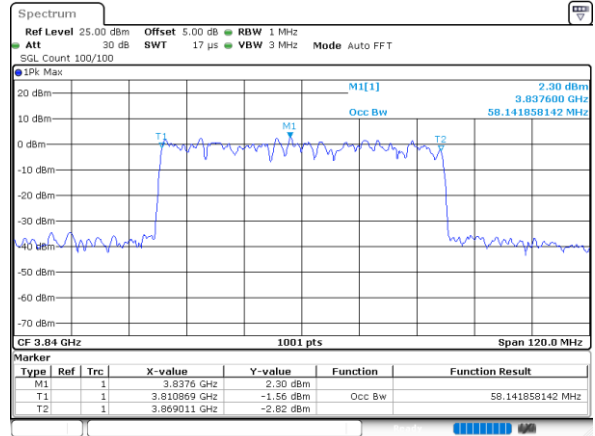
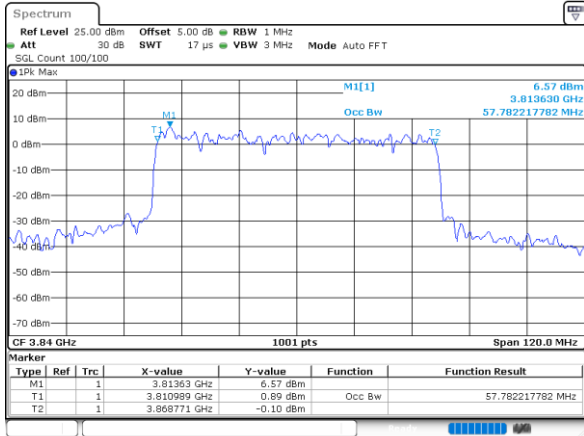
Date: 2.JUL.2021 17:16:37

64QAM

256QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:16:54

Date: 2.JUL.2021 17:17:09



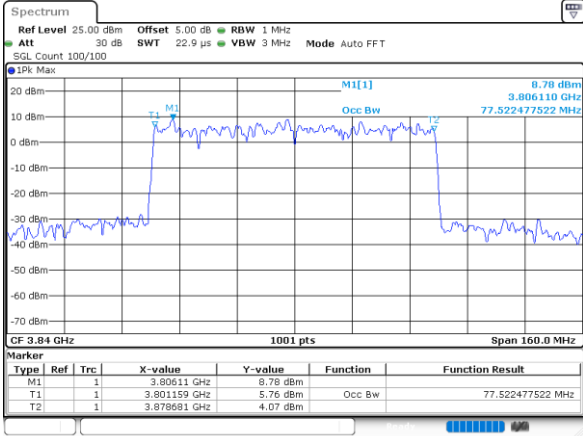
5G NR UL-MIMO n77 / 80MHz / CP-OFDM (ANT4)

QPSK

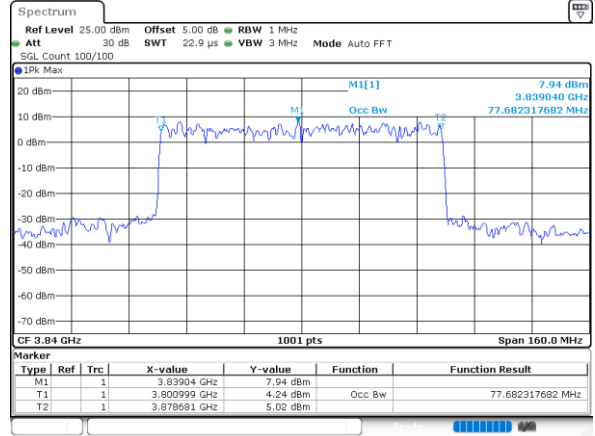
16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:42:45



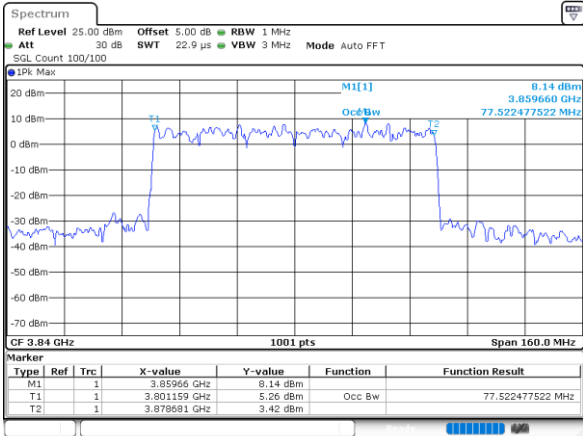
Date: 5.JUL.2021 14:43:02

64QAM

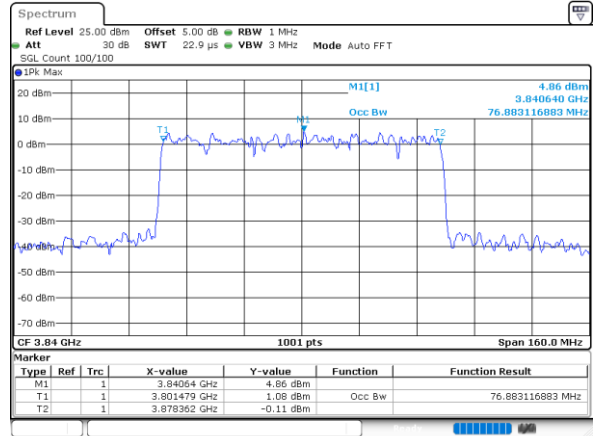
256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:43:20



Date: 5.JUL.2021 14:43:37



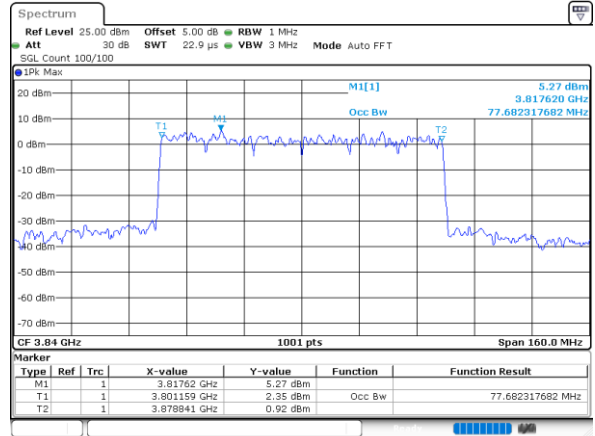
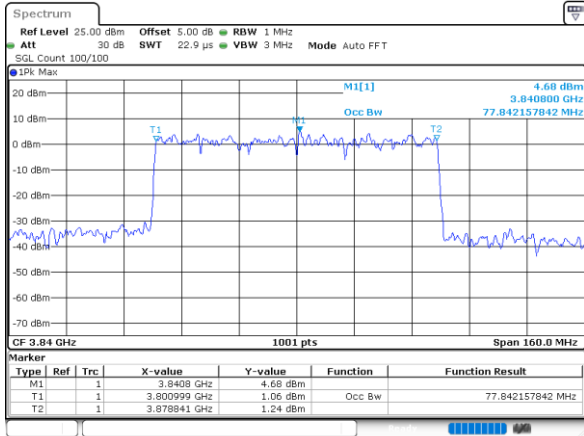
5G NR UL-MIMO n77 / 80MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:17:46

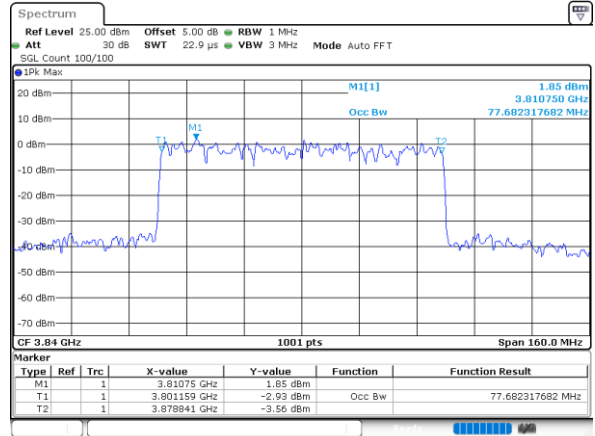
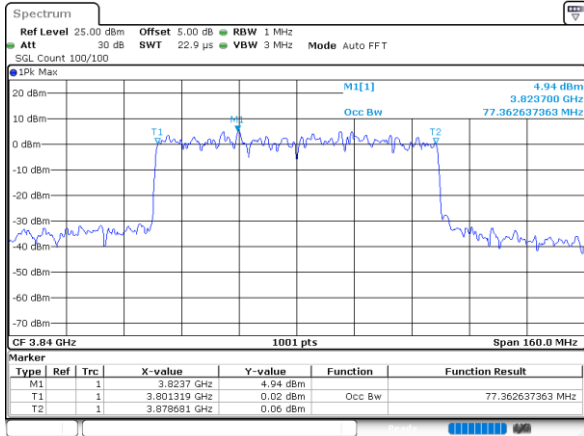
Date: 2.JUL.2021 17:18:12

64QAM

256QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:18:29

Date: 2.JUL.2021 17:18:46



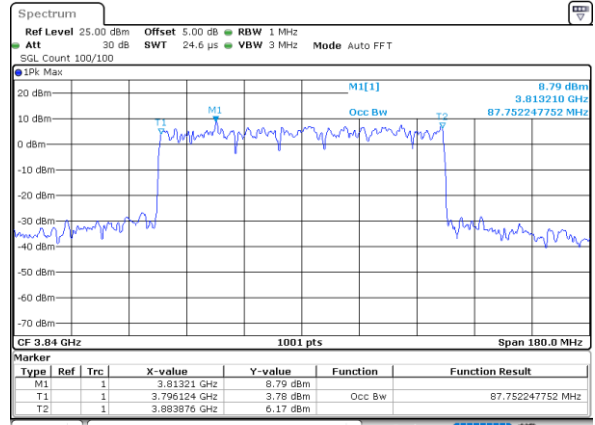
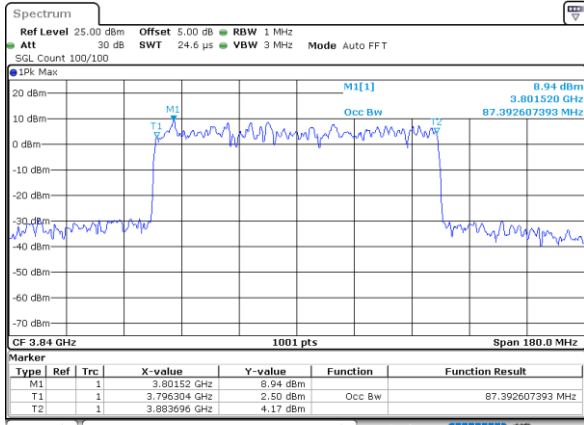
5G NR UL-MIMO n77 / 90MHz / CP-OFDM (Ant4)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:44:23

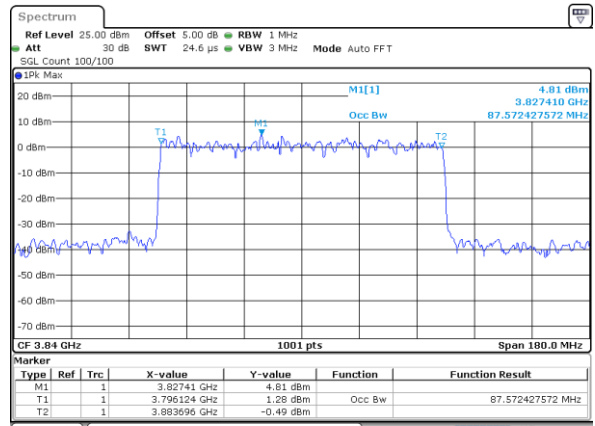
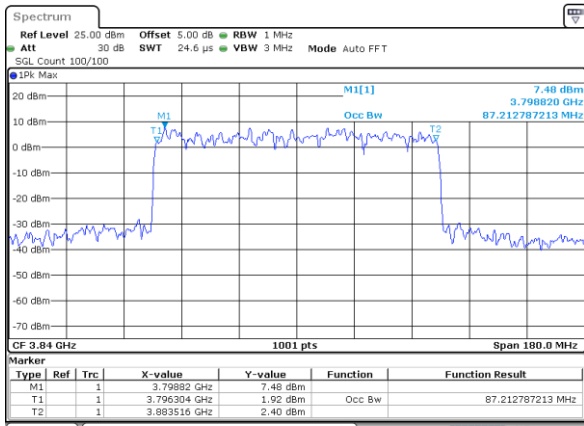
Date: 5.JUL.2021 14:44:40

64QAM

256QAM

Middle Channel

Middle Channel



Date: 5.JUL.2021 14:44:58

Date: 5.JUL.2021 14:45:15



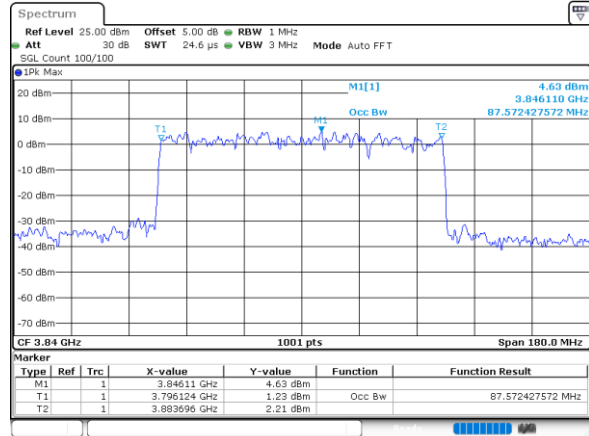
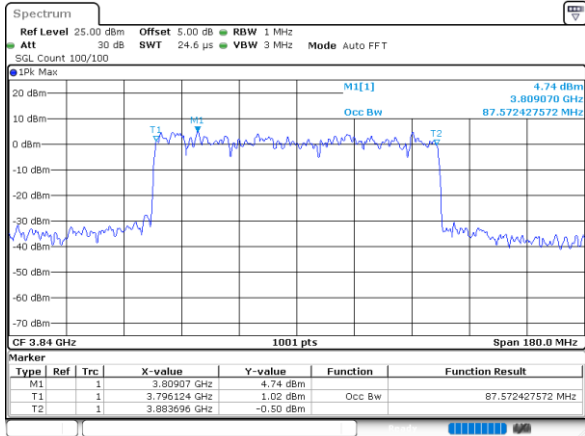
5G NR UL-MIMO n77 / 90MHz / CP-OFDM (Ant5)

QPSK

16QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:19:23

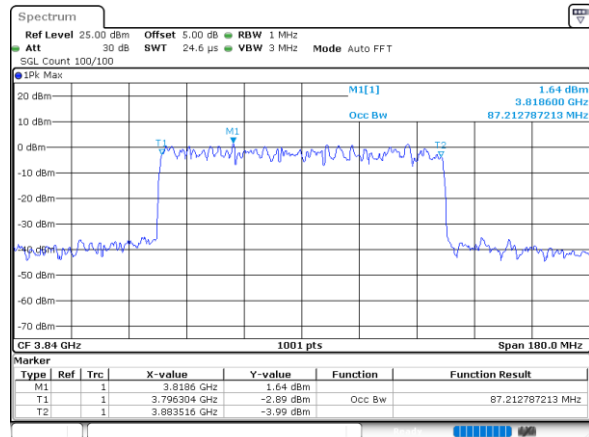
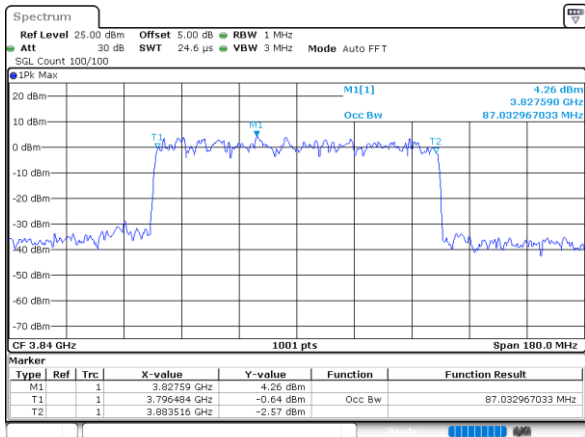
Date: 2.JUL.2021 17:19:41

64QAM

256QAM

Middle Channel

Middle Channel



Date: 2.JUL.2021 17:20:00

Date: 2.JUL.2021 17:20:16

