LTE Band 5	
Lowest Channel / 10MHz / QPSK	**Lowest Channel / 10MHz / 16QAM**

Date: 29.JUL.2019 19:57:03

Date: 29.JUL.2019 19:57:13

Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**

Date: 29.JUL.2019 20:06:02
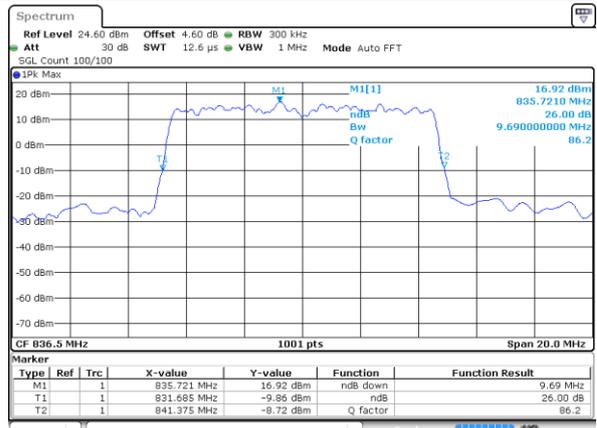
Date: 29.JUL.2019 20:06:12

Highest Channel / 10MHz / QPSK	**Highest Channel / 10MHz / 16QAM**
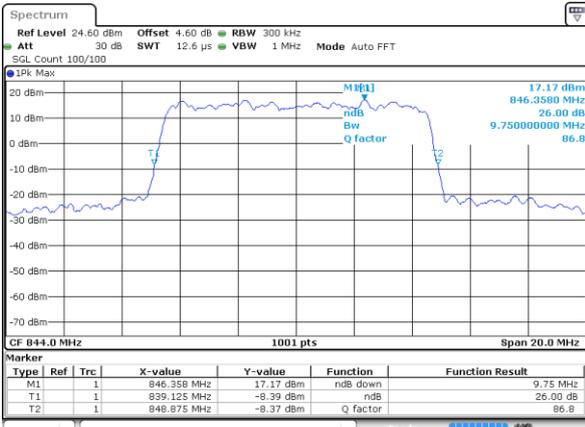
Date: 29.JUL.2019 20:08:31

Date: 29.JUL.2019 20:08:41

Sporton International (Kunshan) Inc.
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FAX : +86-512-57900958
FCC ID : 2AFZZG7G

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Report Issued Date : Sep. 12, 2019
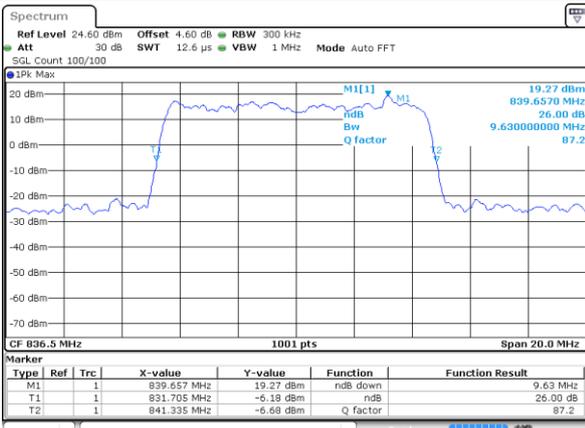Report Version   : Rev. 01
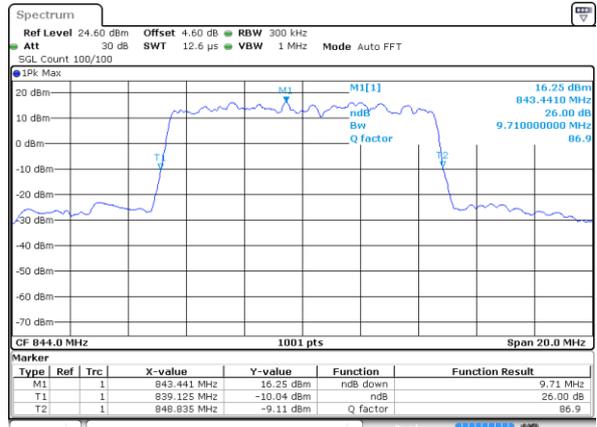
LTE Band 5
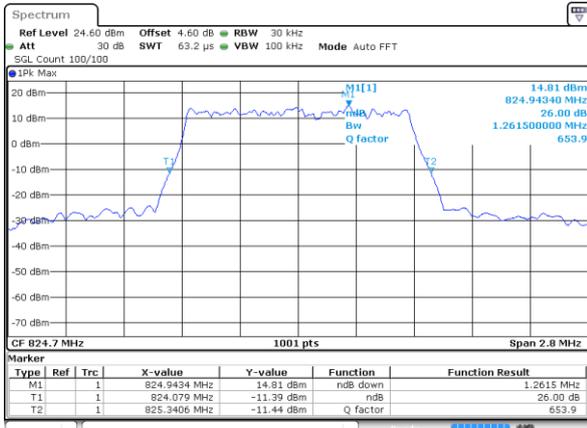
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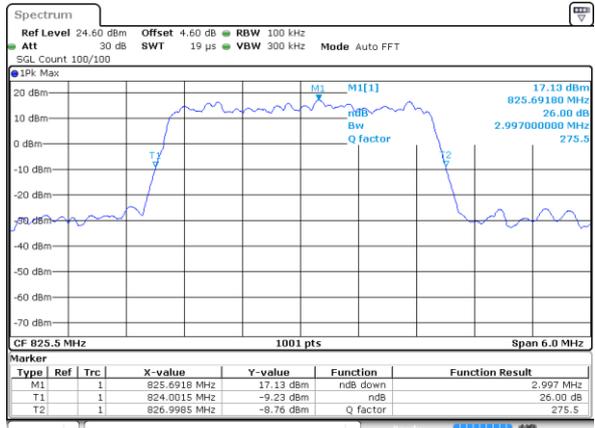
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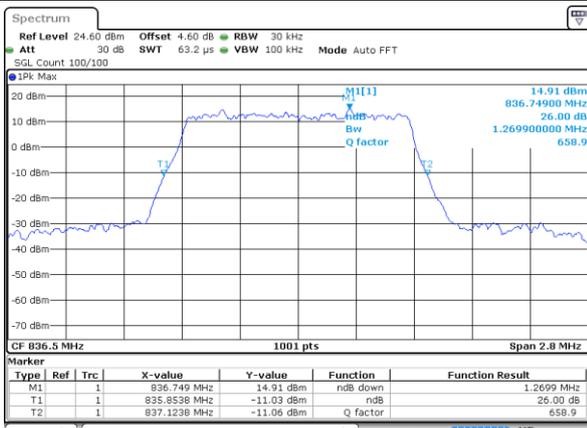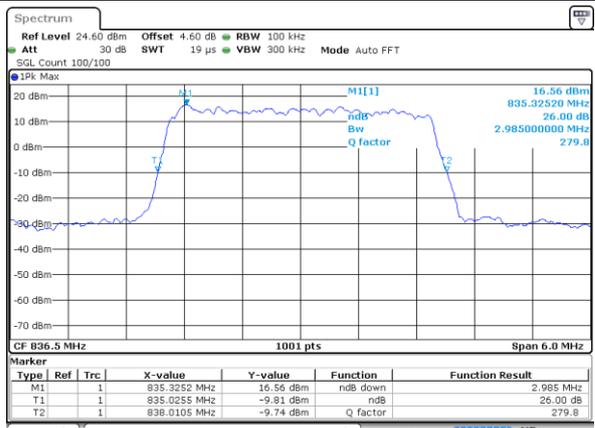
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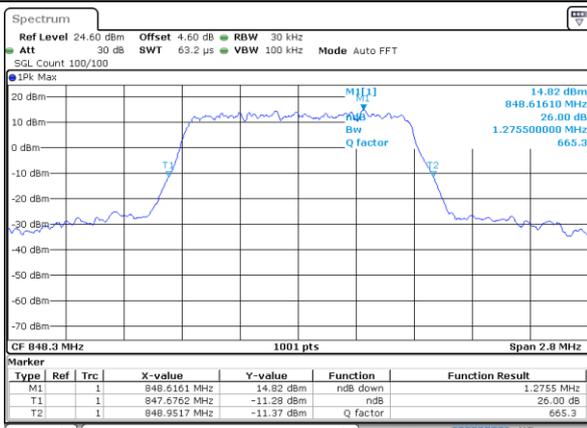
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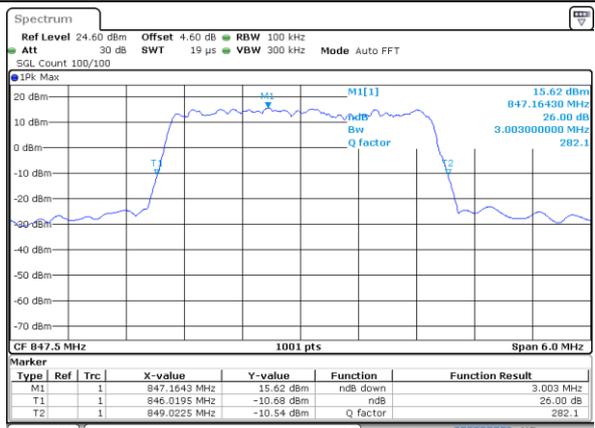
LTE Band 5

Lowest Channel / 5MHz / 64QAM	Lowest Channel / 10MHz / 64QAM
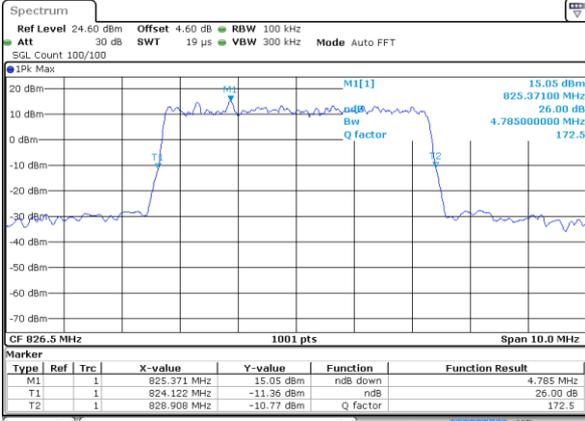
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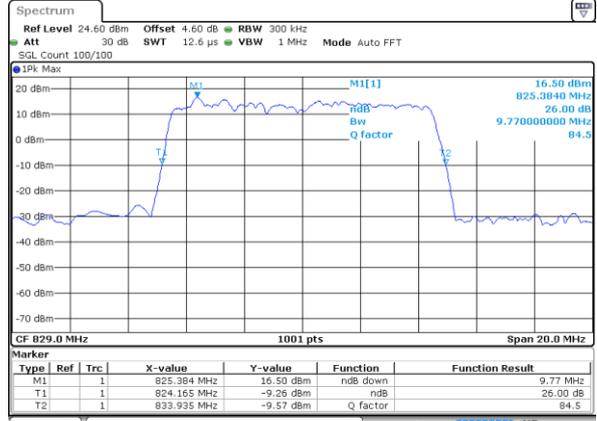
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Middle Channel / 5MHz / 64QAM	Middle Channel / 10MHz / 64QAM
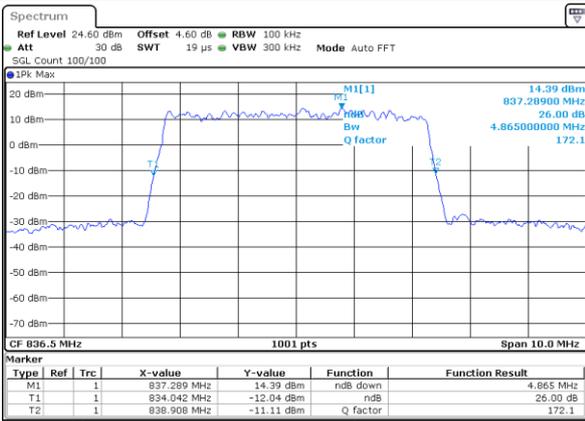
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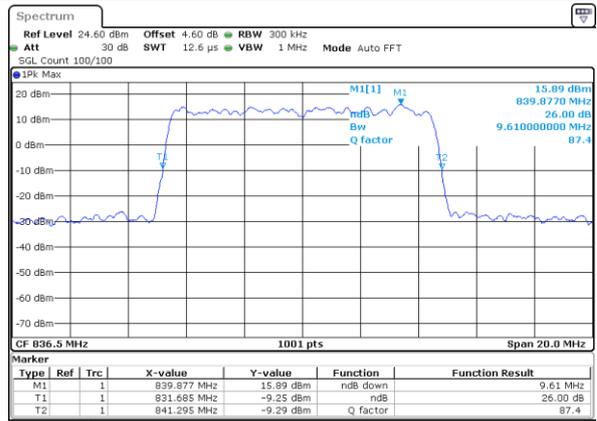
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Highest Channel / 5MHz / 64QAM	Highest Channel / 10MHz / 64QAM
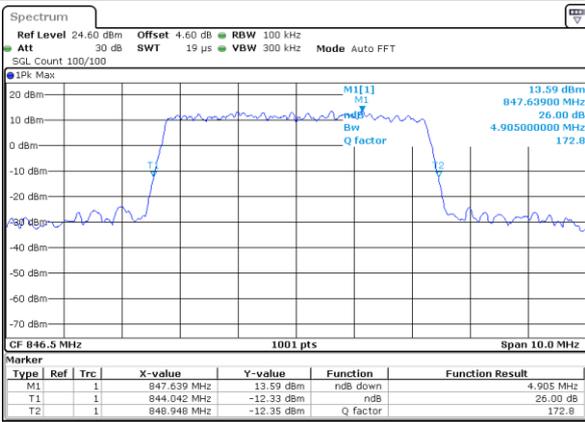
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Date: 29.JUL.2019 20:59:54

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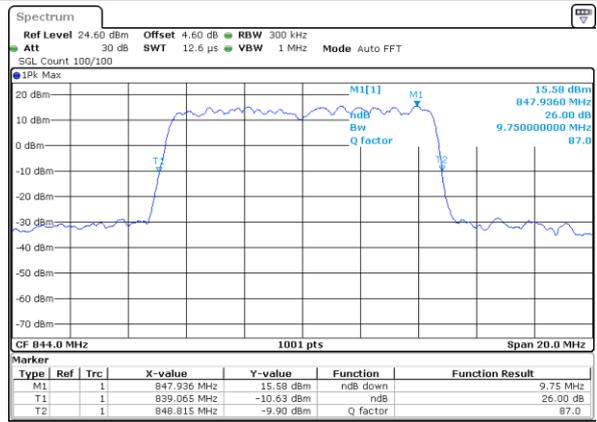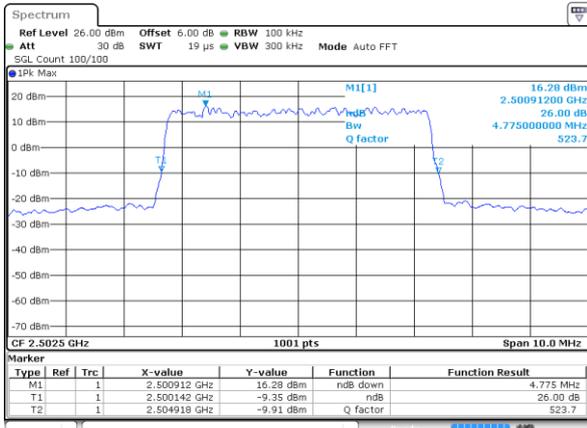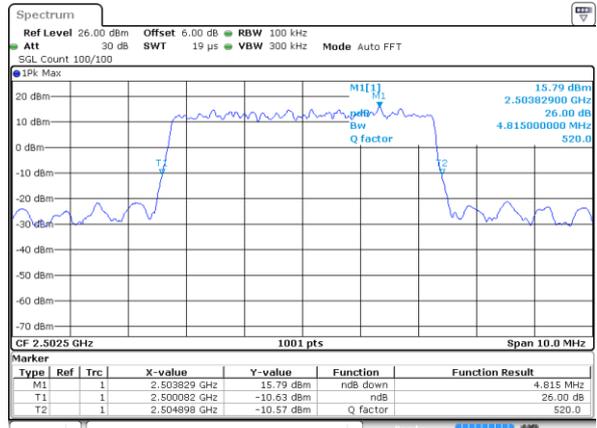
LTE Band 7	
Lowest Channel / 5MHz / QPSK	**Lowest Channel / 5MHz / 16QAM**
Date: 29.JUL.2019 21:37:55	Date: 29.JUL.2019 21:38:15
Middle Channel / 5MHz / QPSK	**Middle Channel / 5MHz / 16QAM**
Date: 29.JUL.2019 21:38:56	Date: 29.JUL.2019 21:38:36
Highest Channel / 5MHz / QPSK	**Highest Channel / 5MHz / 16QAM**
Date: 29.JUL.2019 21:39:16	Date: 29.JUL.2019 21:39:36

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LTE Band 7

Lowest Channel / 10MHz / QPSK	Lowest Channel / 10MHz / 16QAM

Lowest Channel / 10MHz / QPSK

Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 12.6 µs VBW 1 MHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 10.30 dBm 2.5010840 GHz
ndB 26.00 dB
Bw 9.730000000 MHz
Q factor 257.0
CF 2.505 GHz 1001 pts Span 20.0 MHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.501084 GHz	18.30 dBm	ndB down	9.73 MHz
T1		1	2.500165 GHz	-7.51 dBm	ndB	26.00 dB
T2		1	2.509895 GHz	-8.34 dBm	Q factor	257.0

Date: 29.JUL.2019 21:54:27

Lowest Channel / 10MHz / 16QAM

Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 12.6 µs VBW 1 MHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 17.41 dBm 2.5077170 GHz
ndB 26.00 dB
Bw 9.750000000 MHz
Q factor 257.2
CF 2.505 GHz 1001 pts Span 20.0 MHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.507717 GHz	17.41 dBm	ndB down	9.75 MHz
T1		1	2.500085 GHz	-8.91 dBm	ndB	26.00 dB
T2		1	2.509835 GHz	-8.74 dBm	Q factor	257.2
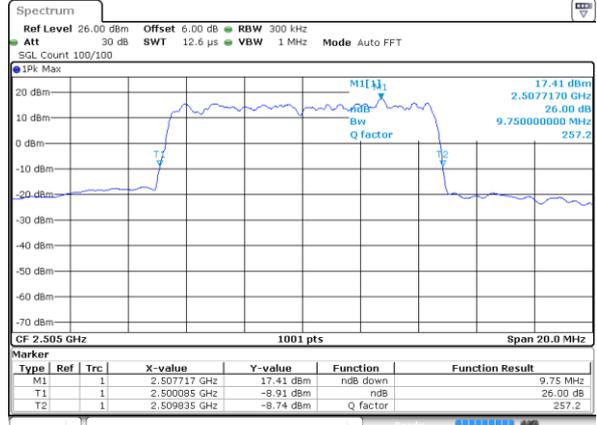
Date: 29.JUL.2019 21:54:47

Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM

Middle Channel / 10MHz / QPSK

Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 12.6 µs VBW 1 MHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 17.56 dBm 2.5372980 GHz
ndB 26.00 dB
Bw 9.730000000 MHz
Q factor 260.8
CF 2.535 GHz 1001 pts Span 20.0 MHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.537298 GHz	17.56 dBm	ndB down	9.73 MHz
T1		1	2.530185 GHz	-8.40 dBm	ndB	26.00 dB
T2		1	2.539915 GHz	-8.47 dBm	Q factor	260.8

Date: 29.JUL.2019 21:55:26

Middle Channel / 10MHz / 16QAM

Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 12.6 µs VBW 1 MHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 17.67 dBm 2.5323030 GHz
ndB 26.00 dB
Bw 9.710000000 MHz
Q factor 260.8
CF 2.535 GHz 1001 pts Span 20.0 MHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.532303 GHz	17.67 dBm	ndB down	9.71 MHz
T1		1	2.530125 GHz	-8.09 dBm	ndB	26.00 dB
T2		1	2.539835 GHz	-9.49 dBm	Q factor	260.8
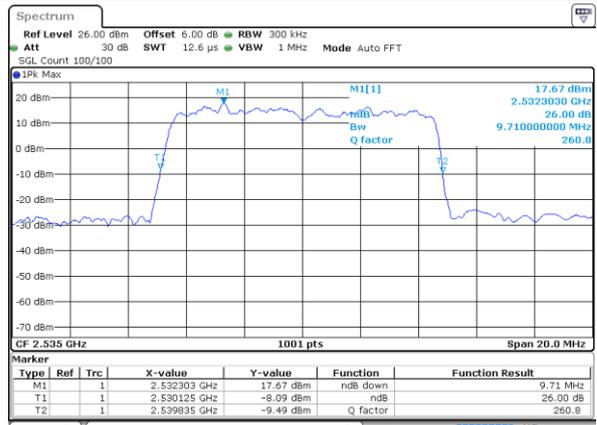
Date: 29.JUL.2019 21:55:06

Highest Channel / 10MHz / QPSK	Highest Channel / 10MHz / 16QAM

Highest Channel / 10MHz / QPSK

Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 12.6 µs VBW 1 MHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 17.33 dBm 2.5606040 GHz
ndB 26.00 dB
Bw 9.850000000 MHz
Q factor 260.0
CF 2.565 GHz 1001 pts Span 20.0 MHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.560604 GHz	17.33 dBm	ndB down	9.85 MHz
T1		1	2.560085 GHz	-8.34 dBm	ndB	26.00 dB
T2		1	2.569935 GHz	-8.86 dBm	Q factor	260.0

Date: 29.JUL.2019 21:55:46

Highest Channel / 10MHz / 16QAM

Ref Level 26.00 dBm Offset 6.00 dB RBW 300 kHz
Att 30 dB SWT 12.6 µs VBW 1 MHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] 17.40 dBm 2.5618030 GHz
ndB 26.00 dB
Bw 9.750000000 MHz
Q factor 262.7
CF 2.565 GHz 1001 pts Span 20.0 MHz

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.561803 GHz	17.40 dBm	ndB down	9.75 MHz
T1		1	2.560165 GHz	-8.75 dBm	ndB	26.00 dB
T2		1	2.569915 GHz	-8.95 dBm	Q factor	262.7

Date: 29.JUL.2019 21:56:06

LTE Band 7

Lowest Channel / 15MHz / QPSK

Date: 29.JUL.2019 22:11:15

Lowest Channel / 15MHz / 16QAM

Date: 29.JUL.2019 22:10:55

Middle Channel / 15MHz / QPSK

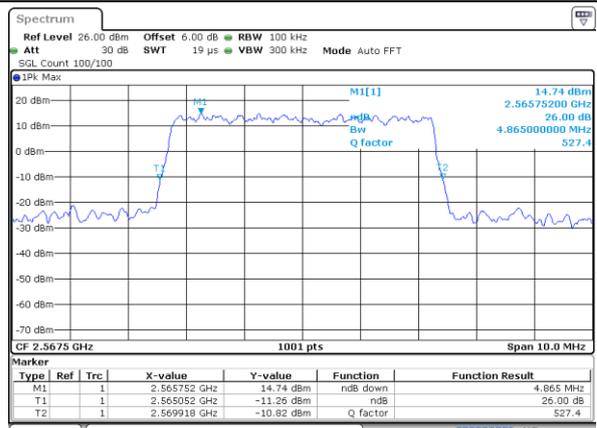Date: 29.JUL.2019 22:11:36

Middle Channel / 15MHz / 16QAM

Date: 29.JUL.2019 22:11:56

Highest Channel / 15MHz / QPSK

Date: 29.JUL.2019 22:12:36
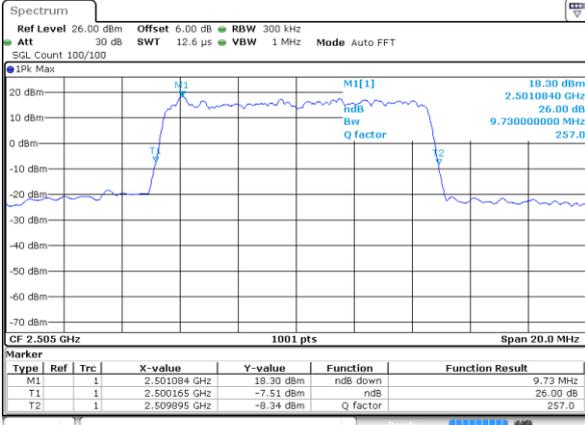
Highest Channel / 15MHz / 16QAM
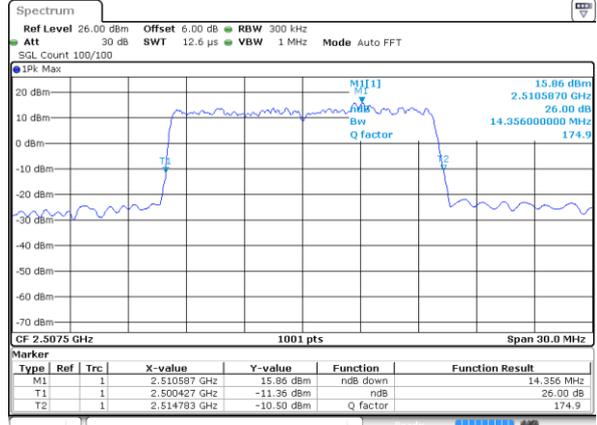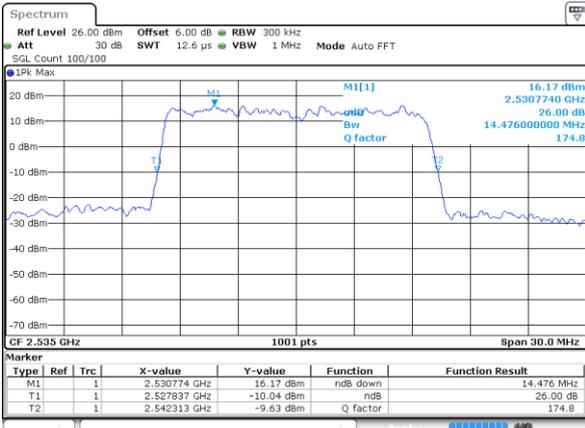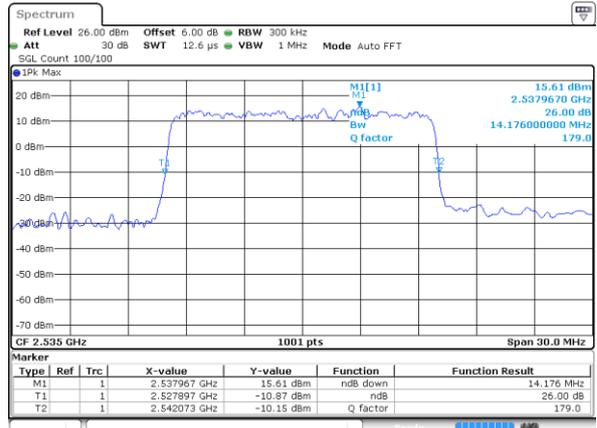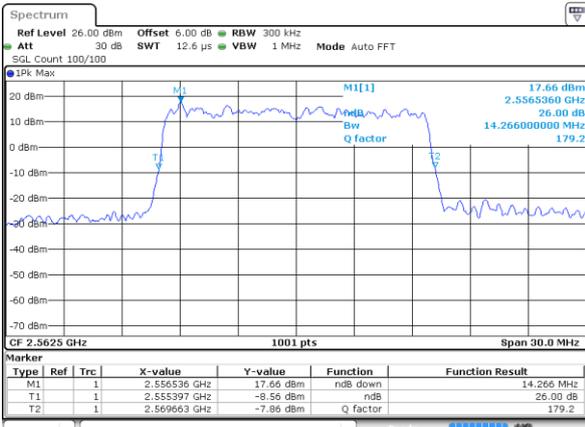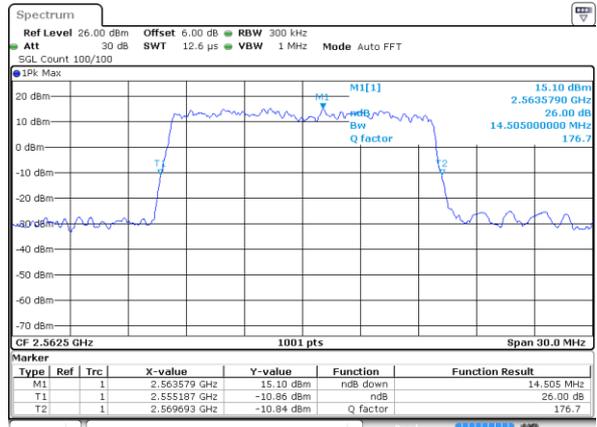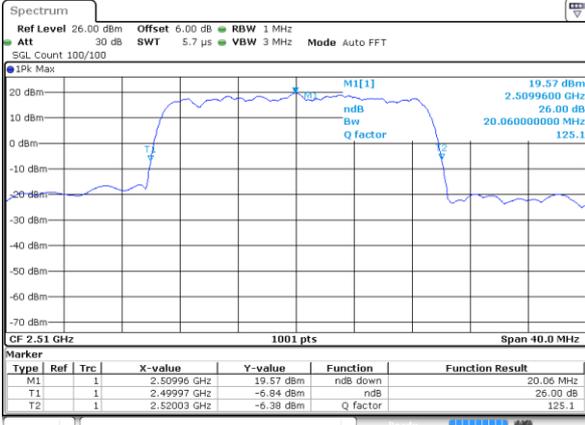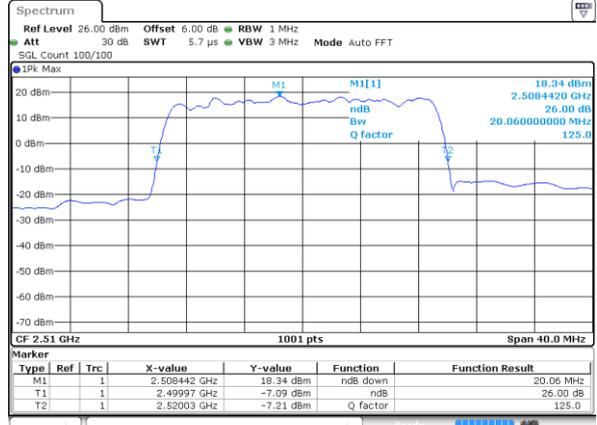

Date: 29.JUL.2019 22:12:16

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LTE Band 7	
Lowest Channel / 20MHz / QPSK	**Lowest Channel / 20MHz / 16QAM**

Date: 29.JUL.2019 22:27:46

Date: 29.JUL.2019 22:27:26

Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
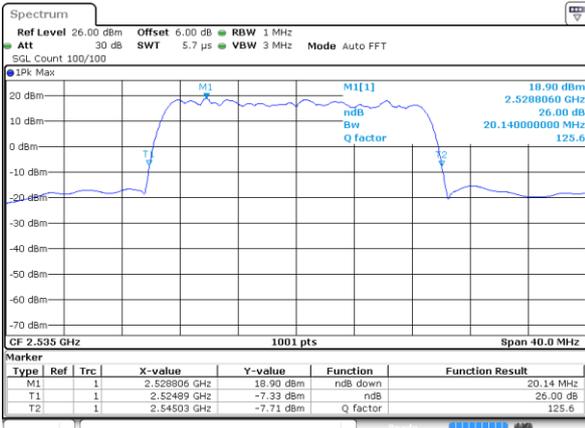
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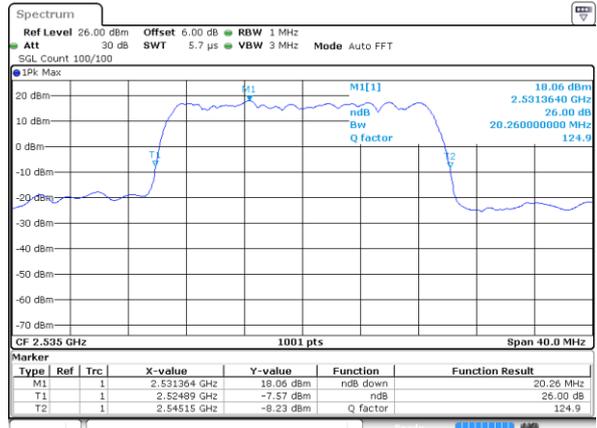
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Highest Channel / 20MHz / QPSK	**Highest Channel / 20MHz / 16QAM**
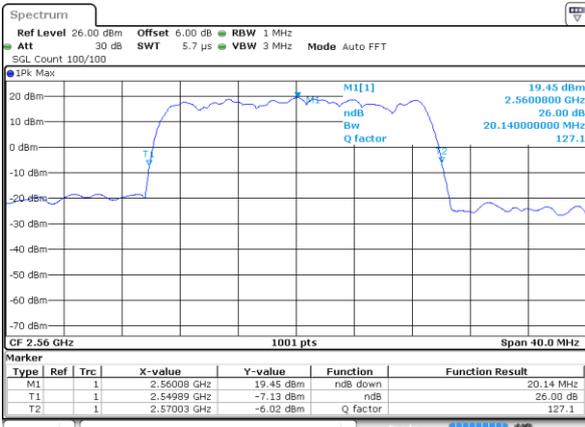
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Date: 29.JUL.2019 22:28:46

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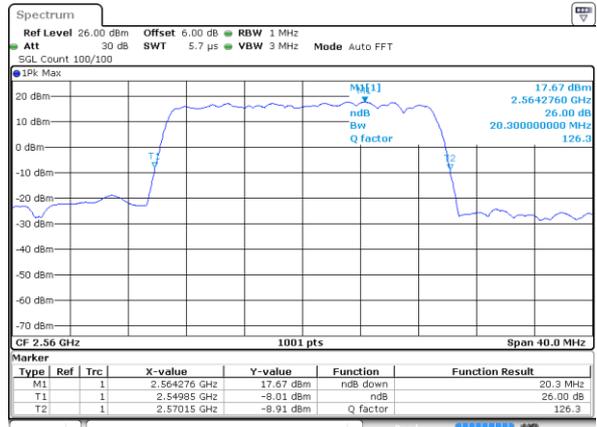
LTE Band 7

Lowest Channel / 5MHz / 64QAM
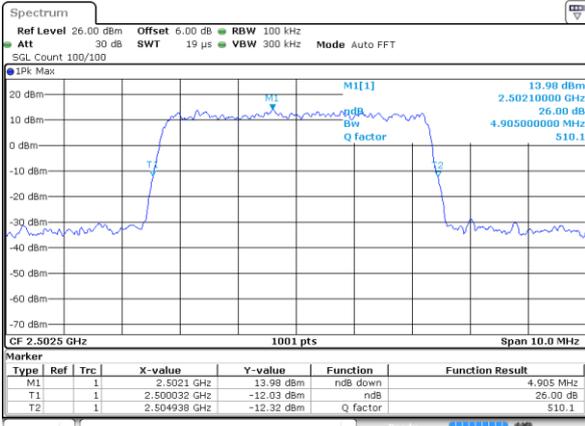
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Lowest Channel / 10MHz / 64QAM
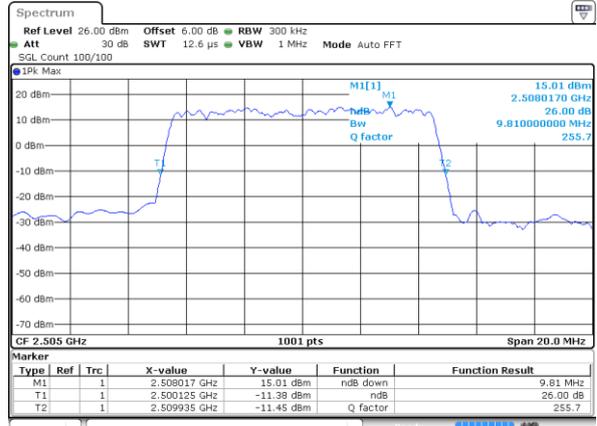
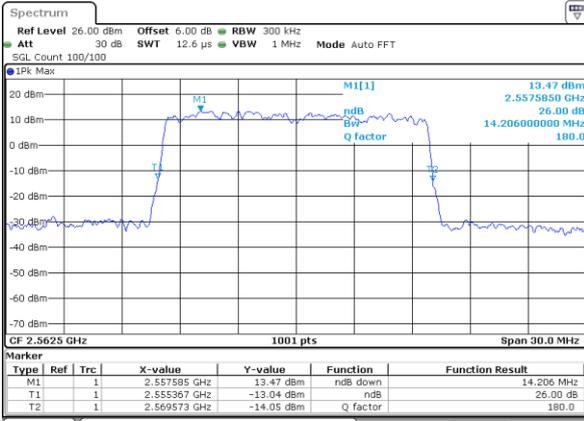Date: 29.JUL.2019 22:52:33

Middle Channel / 5MHz / 64QAM
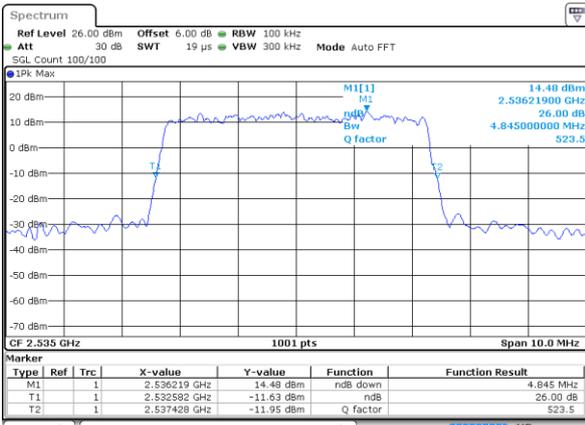
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Middle Channel / 10MHz / 64QAM
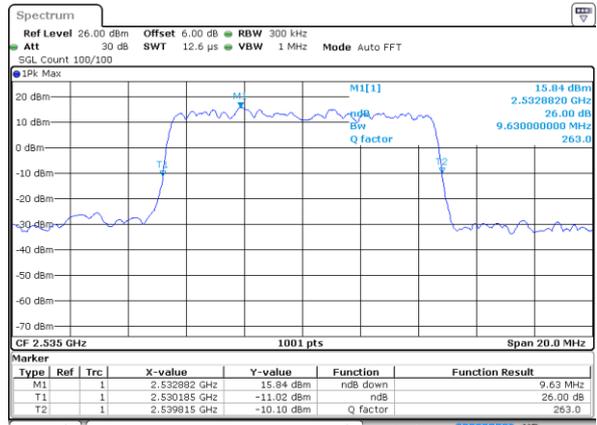
Date: 29.JUL.2019 22:52:43

Highest Channel / 5MHz / 64QAM
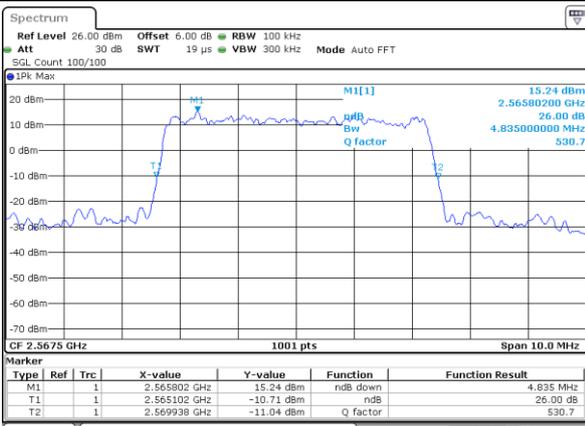
Date: 29.JUL.2019 22:44:37

Highest Channel / 10MHz / 64QAM

Date: 29.JUL.2019 22:52:53

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LTE Band 7	
Lowest Channel / 15MHz / 64QAM	**Lowest Channel / 20MHz / 64QAM**

Date: 29.JUL.2019 23:00:48

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.513524 GHz	13.30 dBm	ndB down	14.595 MHz
T1		1	2.500277 GHz	-12.49 dBm	ndB	26.00 dB
T2		1	2.514873 GHz	-12.81 dBm	Q factor	172.2

Date: 29.JUL.2019 23:09:03

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.518032 GHz	17.97 dBm	ndB down	20.06 MHz
T1		1	2.50001 GHz	-7.53 dBm	ndB	26.00 dB
T2		1	2.52007 GHz	-8.72 dBm	Q factor	125.5

Middle Channel / 15MHz / 64QAM	**Middle Channel / 20MHz / 64QAM**

Date: 29.JUL.2019 23:00:58

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.531494 GHz	13.08 dBm	ndB down	14.505 MHz
T1		1	2.527777 GHz	-13.42 dBm	ndB	26.00 dB
T2		1	2.542283 GHz	-13.31 dBm	Q factor	174.5

Date: 29.JUL.2019 23:09:13

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.534281 GHz	17.19 dBm	ndB down	20.14 MHz
T1		1	2.52493 GHz	-8.39 dBm	ndB	26.00 dB
T2		1	2.54507 GHz	-8.95 dBm	Q factor	125.8

Highest Channel / 15MHz / 64QAM	**Highest Channel / 20MHz / 64QAM**

Date: 29.JUL.2019 23:01:08

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.557585 GHz	13.47 dBm	ndB down	14.206 MHz
T1		1	2.555367 GHz	-13.04 dBm	ndB	26.00 dB
T2		1	2.569573 GHz	-14.05 dBm	Q factor	180.0

Date: 29.JUL.2019 23:09:23

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.558881 GHz	16.60 dBm	ndB down	20.18 MHz
T1		1	2.54989 GHz	-9.53 dBm	ndB	26.00 dB
T2		1	2.57007 GHz	-9.69 dBm	Q factor	126.8

LTE Band 38

Lowest Channel / 5MHz / QPSK	Lowest Channel / 5MHz / 16QAM

Date: 31.JUL.2019 16:07:41

Date: 31.JUL.2019 16:07:51

Middle Channel / 5MHz / QPSK	Middle Channel / 5MHz / 16QAM
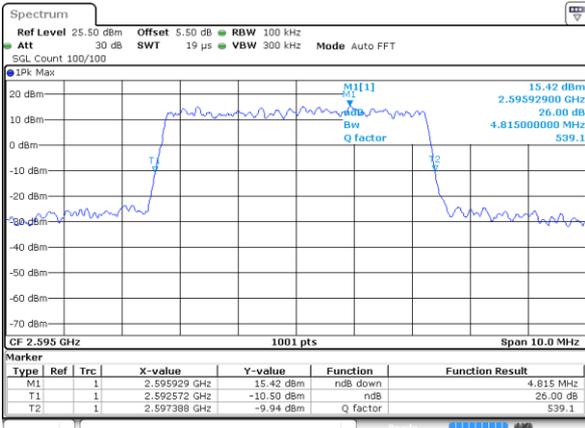
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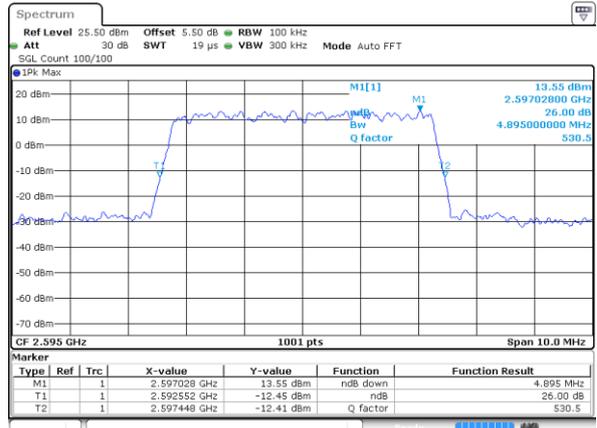
Date: 31.JUL.2019 16:08:32

Highest Channel / 5MHz / QPSK	Highest Channel / 5MHz / 16QAM
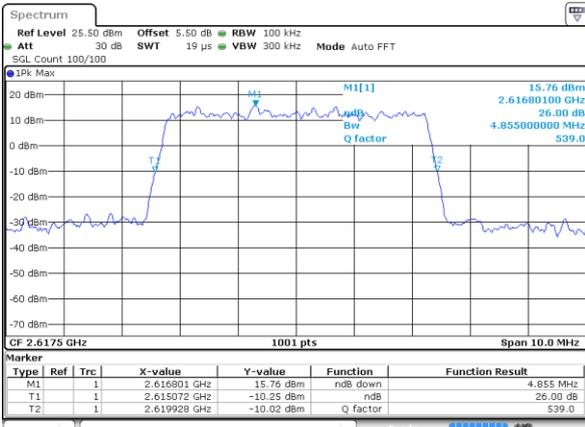
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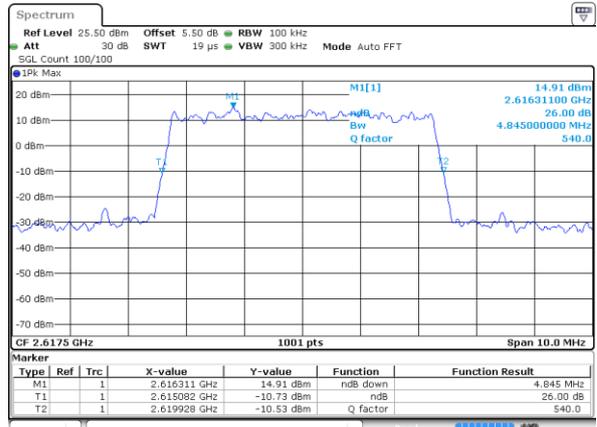
Date: 31.JUL.2019 16:09:12

LTE Band 38	
Lowest Channel / 10MHz / QPSK	**Lowest Channel / 10MHz / 16QAM**
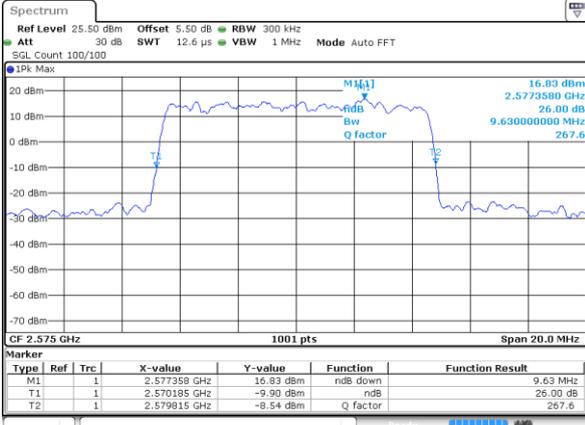
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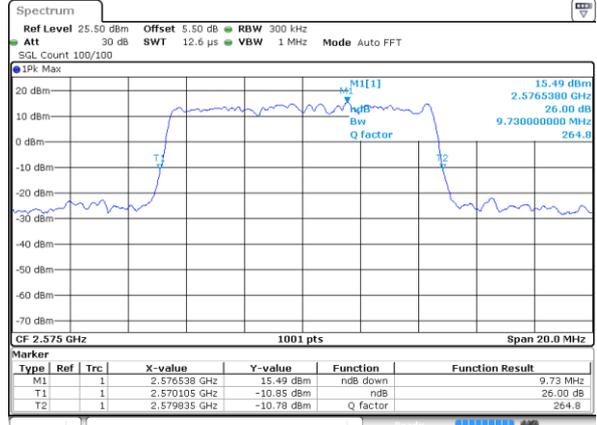
Date: 31.JUL.2019 16:09:52

Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
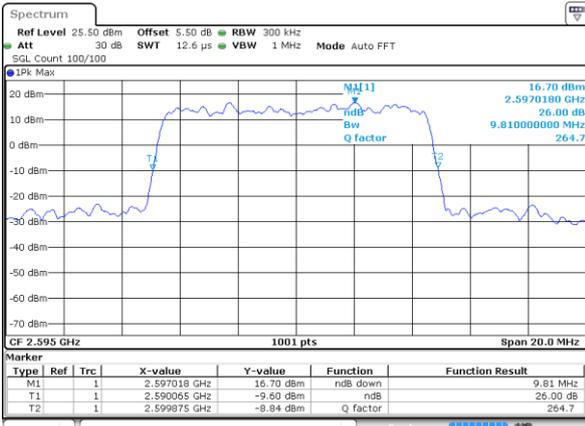
Date: 31.JUL.2019 16:10:23
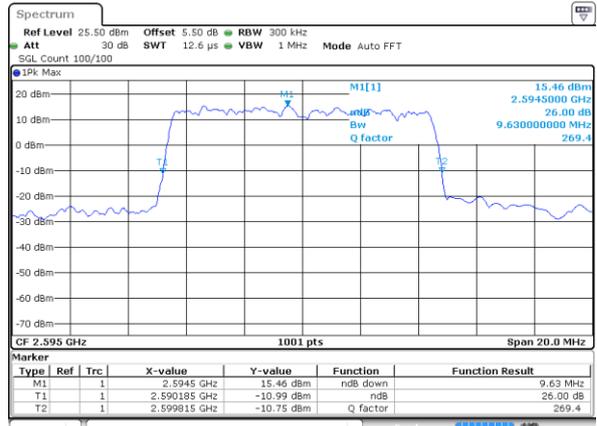
Date: 31.JUL.2019 16:10:33

Highest Channel / 10MHz / QPSK	**Highest Channel / 10MHz / 16QAM**
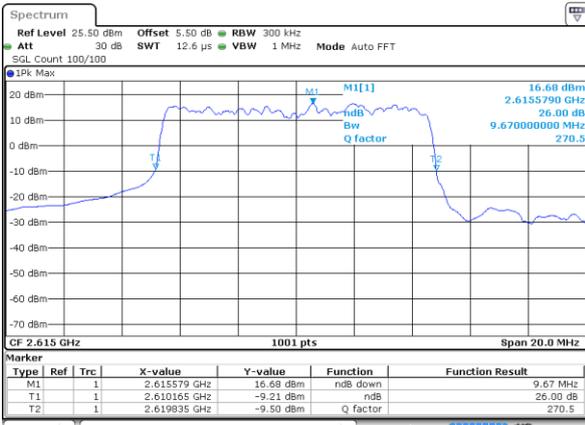
Date: 31.JUL.2019 16:11:03

Date: 31.JUL.2019 16:11:13

LTE Band 38

Lowest Channel / 15MHz / QPSK	Lowest Channel / 15MHz / 16QAM
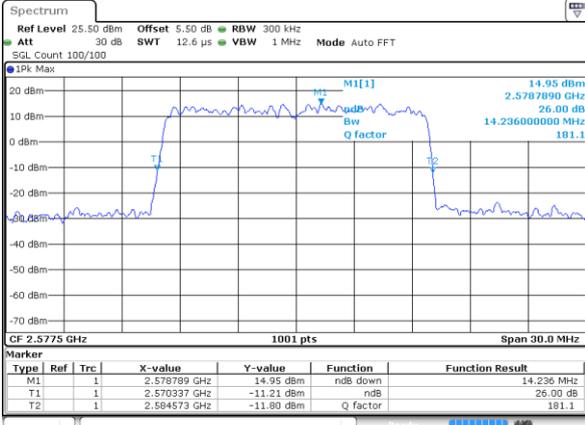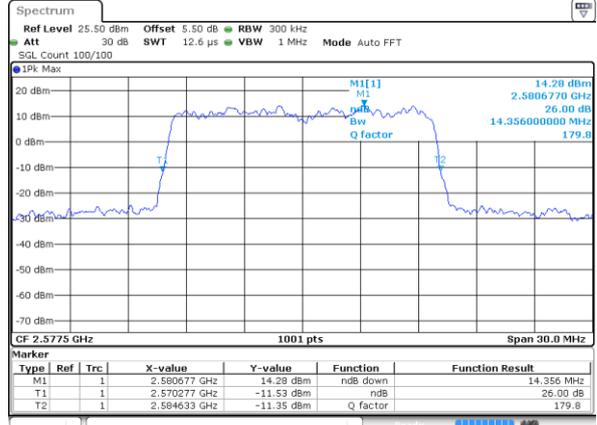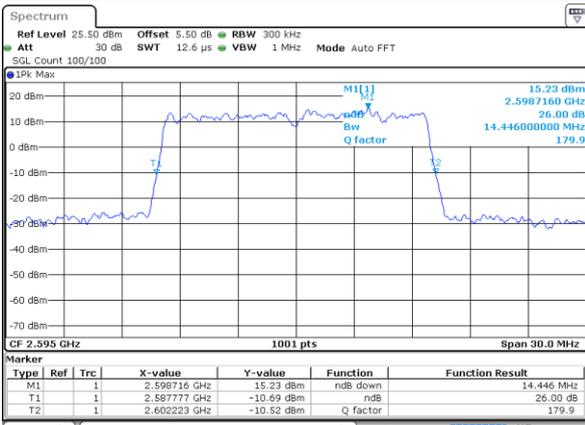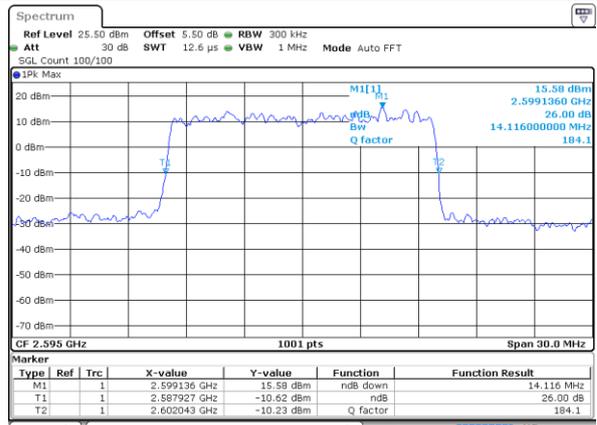
Middle Channel / 15MHz / QPSK	Middle Channel / 15MHz / 16QAM
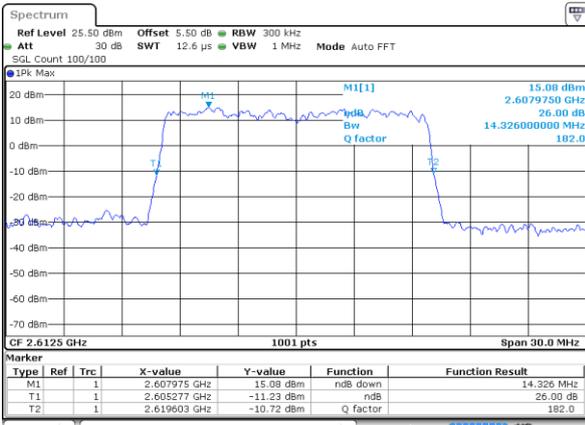
Highest Channel / 15MHz / QPSK	Highest Channel / 15MHz / 16QAM
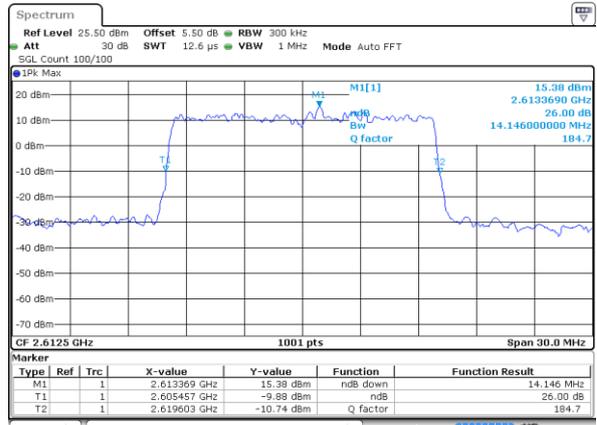
LTE Band 38	
Lowest Channel / 20MHz / QPSK	**Lowest Channel / 20MHz / 16QAM**
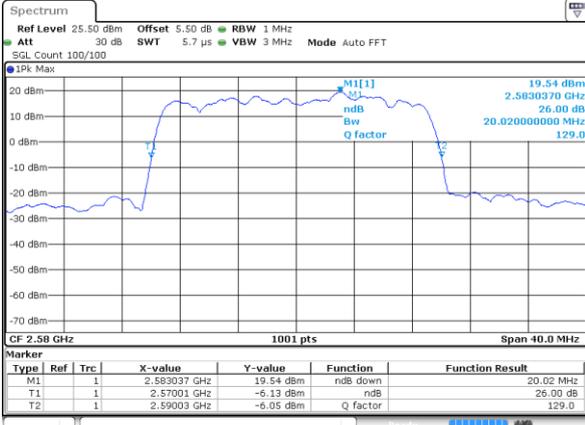
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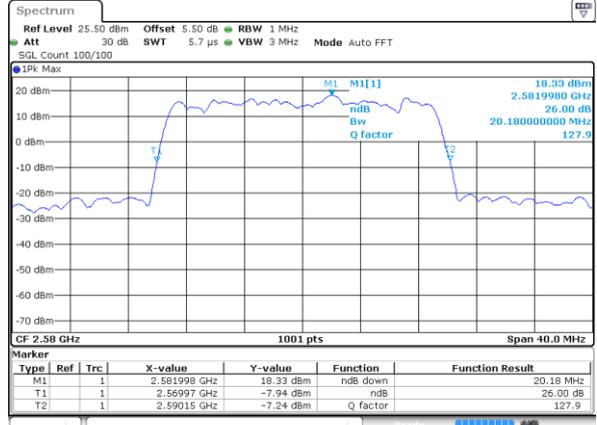
Date: 31.JUL.2019 16:13:53

Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
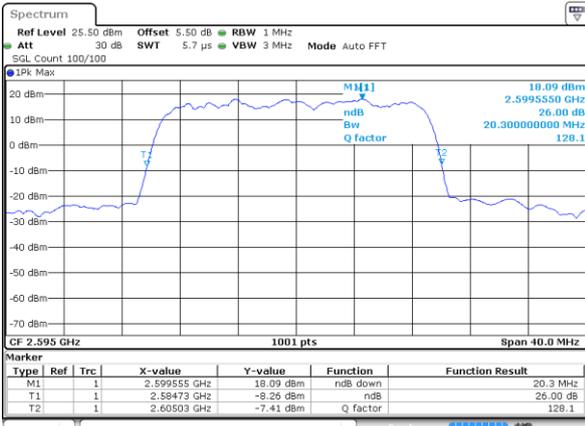
Date: 31.JUL.2019 16:14:23
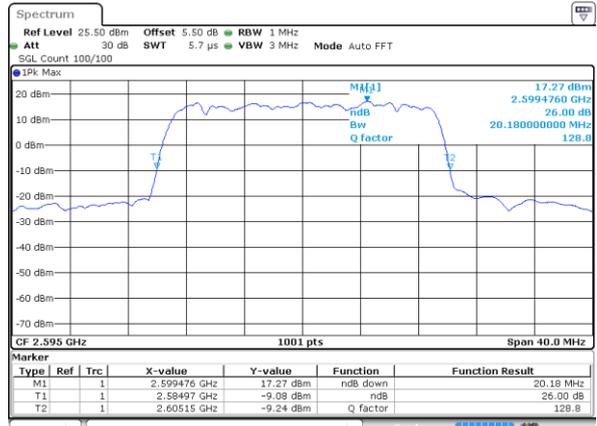
Date: 31.JUL.2019 16:14:33

Highest Channel / 20MHz / QPSK	**Highest Channel / 20MHz / 16QAM**
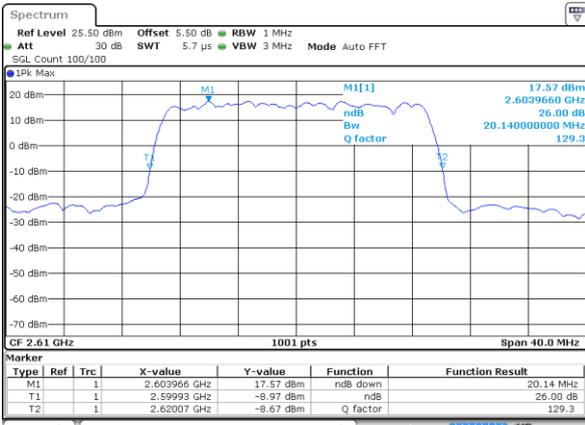
Date: 31.JUL.2019 16:15:03

Date: 31.JUL.2019 16:15:13

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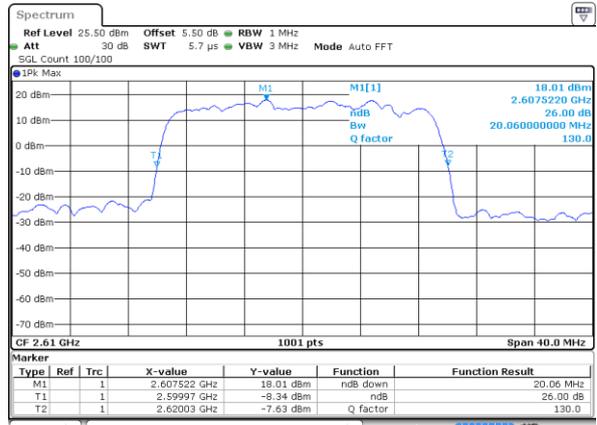
LTE Band 38

Lowest Channel / 5MHz / 64QAM
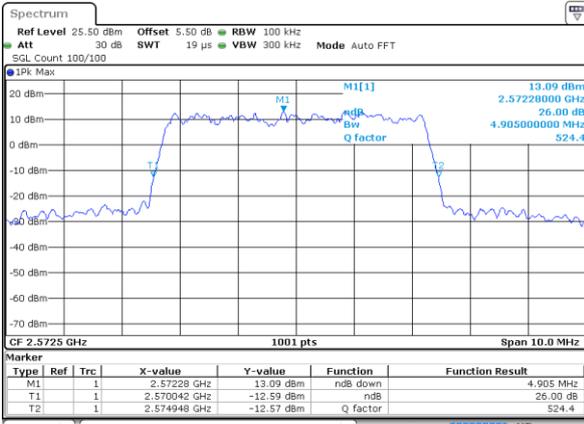
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Lowest Channel / 10MHz / 64QAM
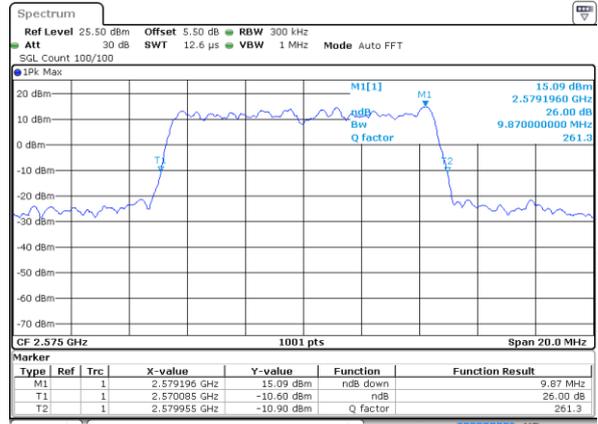
Date: 31.JUL.2019 16:16:34

Middle Channel / 5MHz / 64QAM
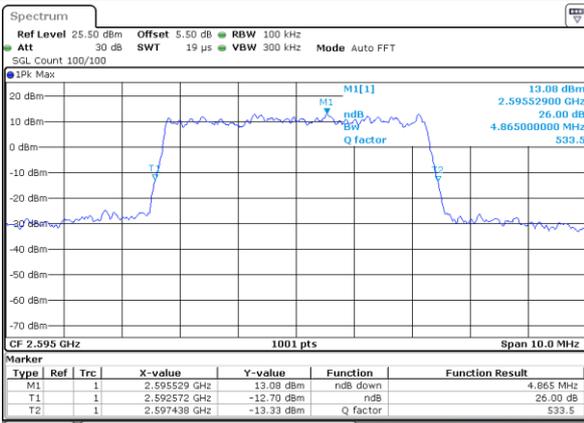
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Middle Channel / 10MHz / 64QAM
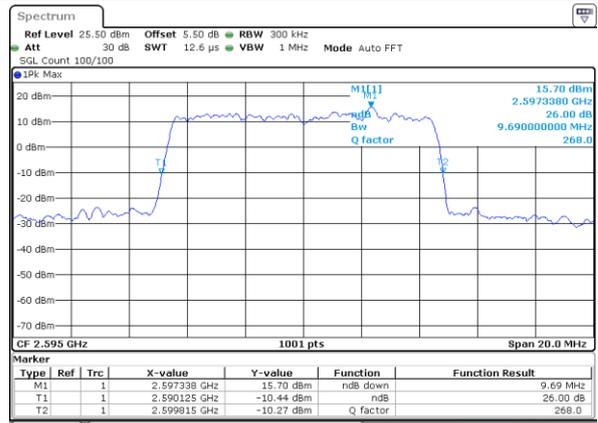
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Highest Channel / 5MHz / 64QAM
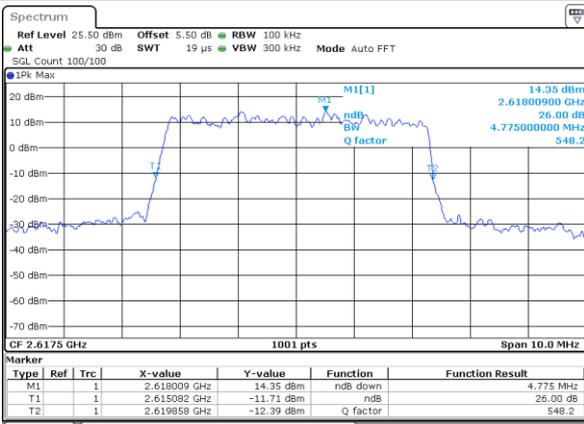
Date: 31.JUL.2019 16:16:14

Highest Channel / 10MHz / 64QAM
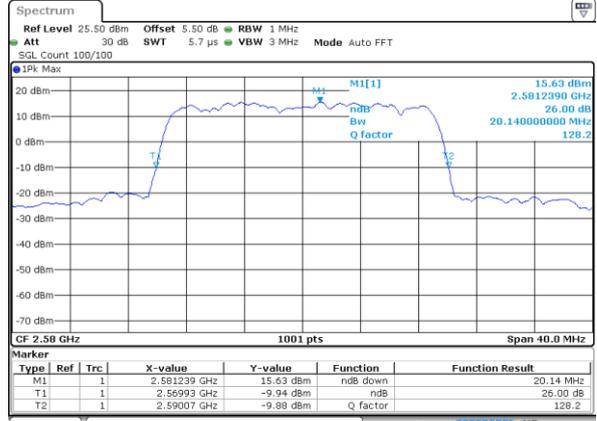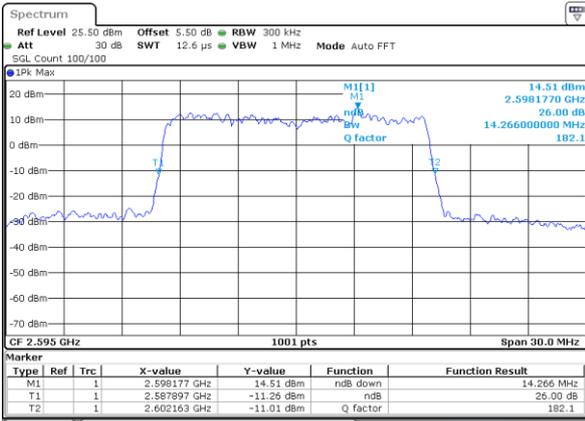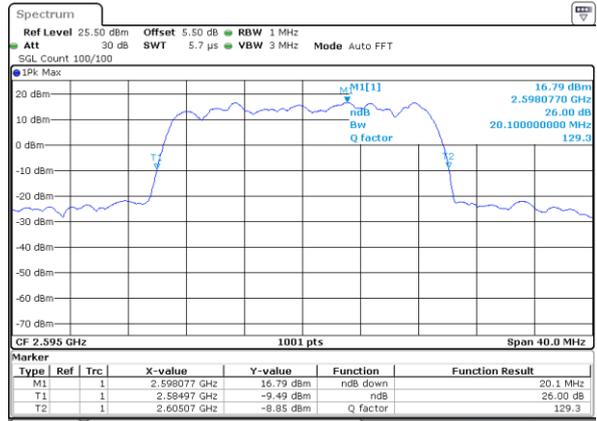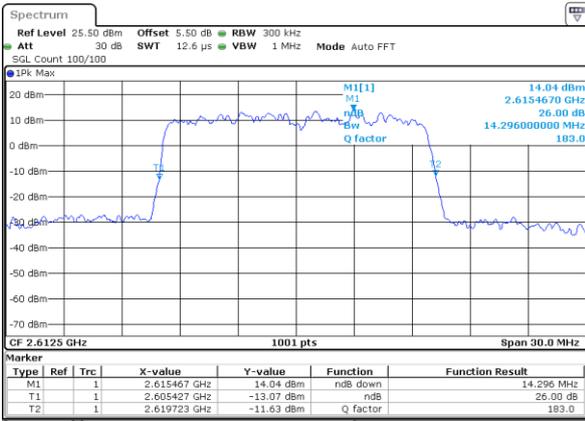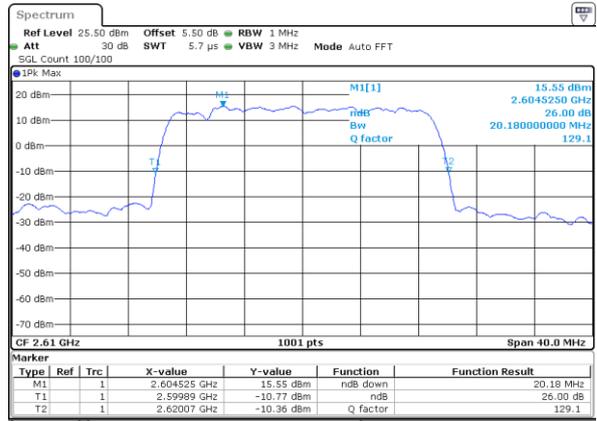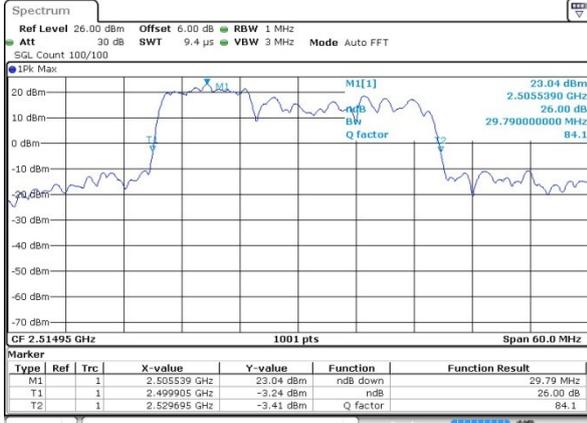

Date: 31.JUL.2019 16:17:15

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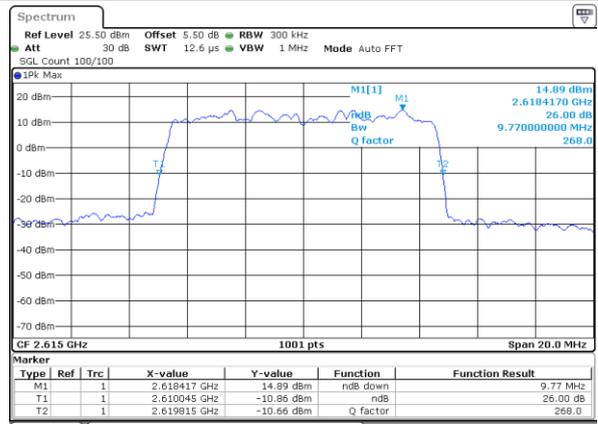
LTE Band 38

Lowest Channel / 15MHz / 64QAM
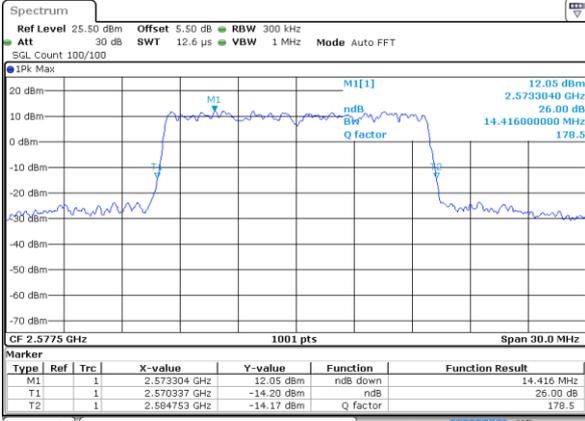
Date: 31.JUL.2019 16:17:35

Lowest Channel / 20MHz / 64QAM

Date: 31.JUL.2019 16:18:35

Middle Channel / 15MHz / 64QAM

Date: 31.JUL.2019 16:17:55

Middle Channel / 20MHz / 64QAM

Date: 31.JUL.2019 16:18:55

Highest Channel / 15MHz / 64QAM

Date: 31.JUL.2019 16:18:15

Highest Channel / 20MHz / 64QAM
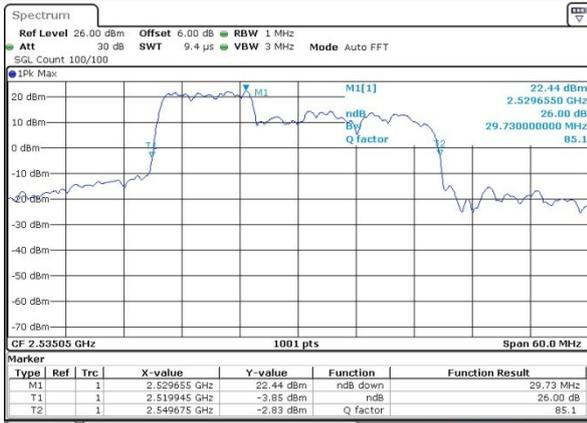

Date: 31.JUL.2019 16:19:15

LTE Band 7
QPSK

Lowest Channel / 10MHz+20MHz	

Middle Channel / 10MHz+20MHz	

Highest Channel / 10MHz+20MHz	
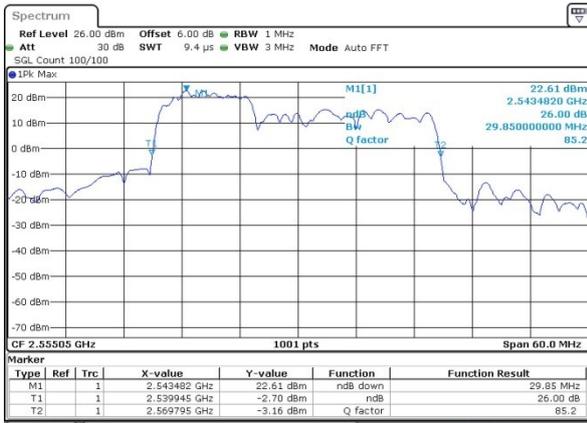
LTE Band 7
QPSK

Lowest Channel / 15MHz+10MHz	Lowest Channel / 15MHz+15MHz
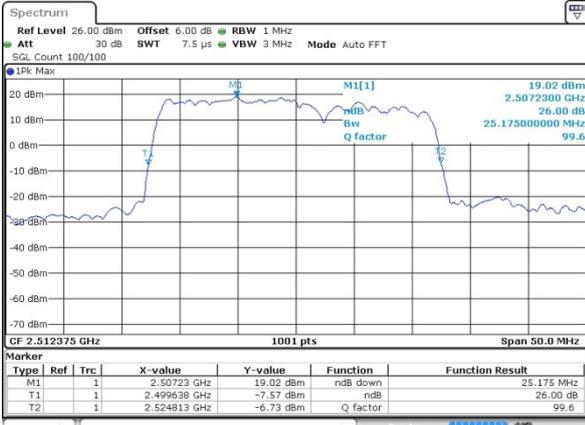
Date: 31.JUL.2019 11:04:15
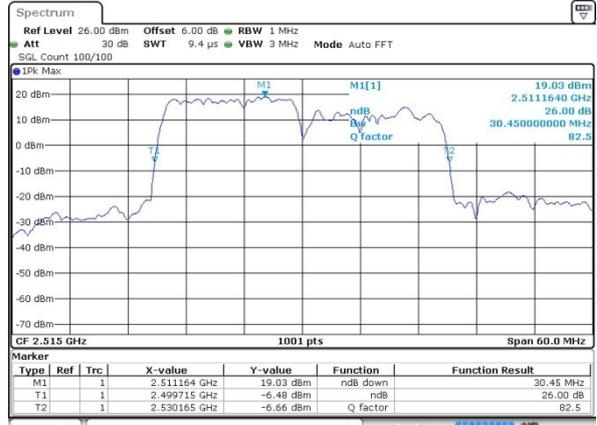
Date: 31.JUL.2019 11:26:22

Middle Channel / 15MHz+10MHz	Middle Channel / 15MHz+15MHz
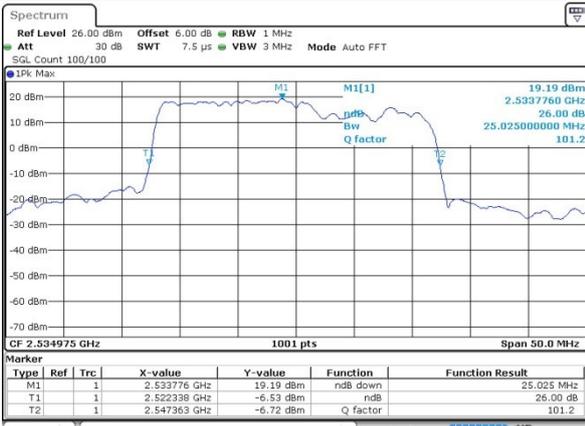
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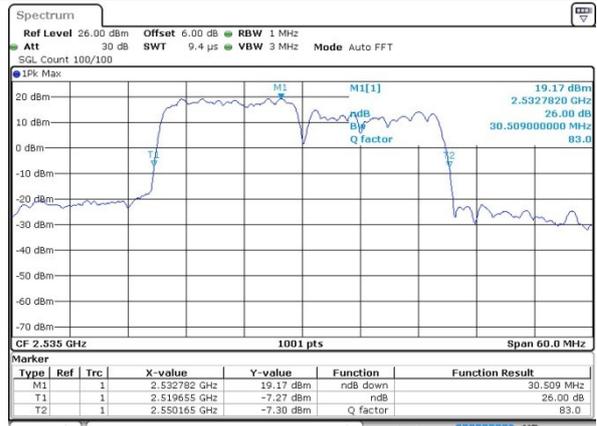
Date: 31.JUL.2019 11:29:14

Highest Channel / 15MHz+10MHz	Highest Channel / 15MHz+15MHz
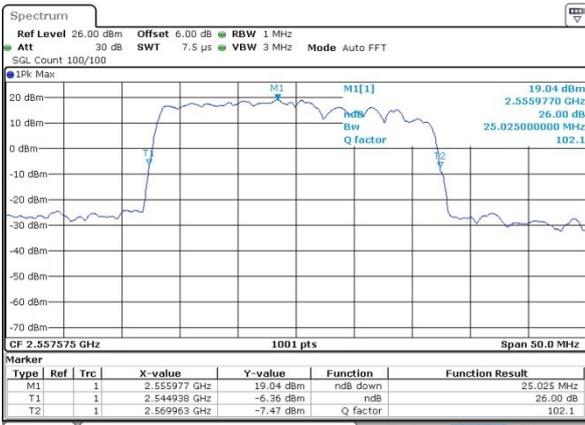
Date: 31.JUL.2019 11:17:27
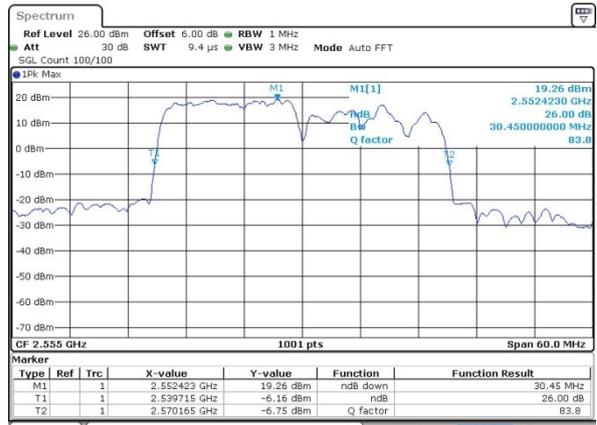
Date: 31.JUL.2019 11:40:23

LTE Band 7

QPSK

Lowest Channel / 15MHz+20MHz	Lowest Channel / 20MHz+10MHz
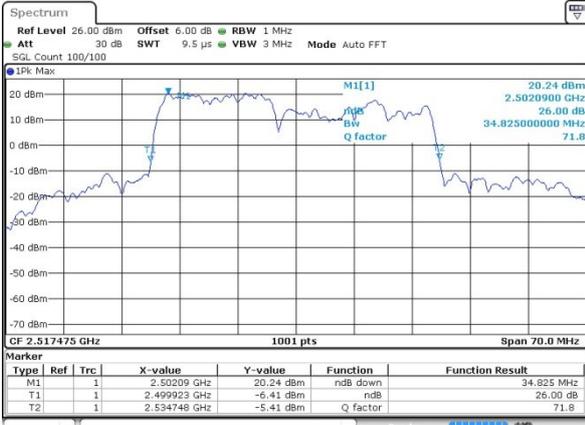
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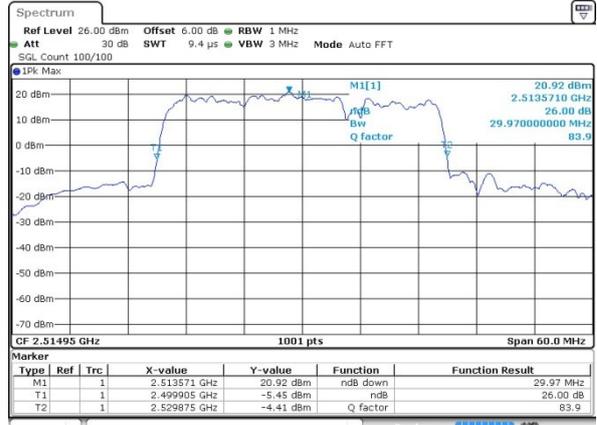
Date: 27.JUL.2019 02:02:43

Middle Channel / 15MHz+20MHz	Middle Channel / 20MHz+10MHz
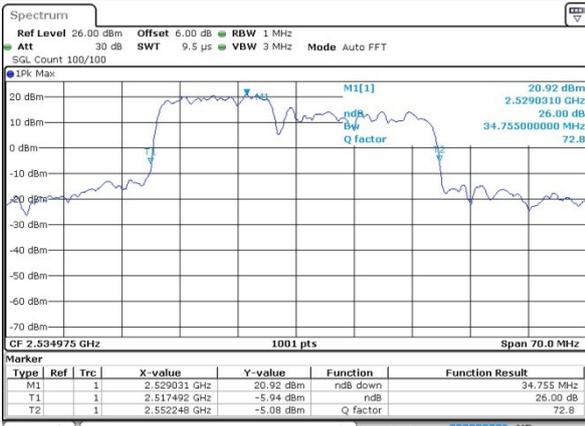
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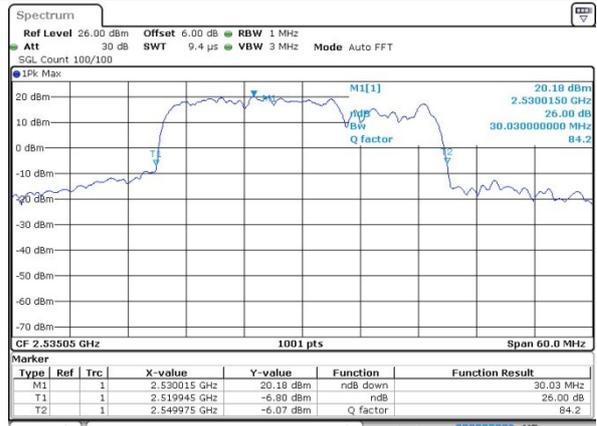
Date: 27.JUL.2019 01:58:22

Highest Channel / 15MHz+20MHz	Highest Channel / 20MHz+10MHz
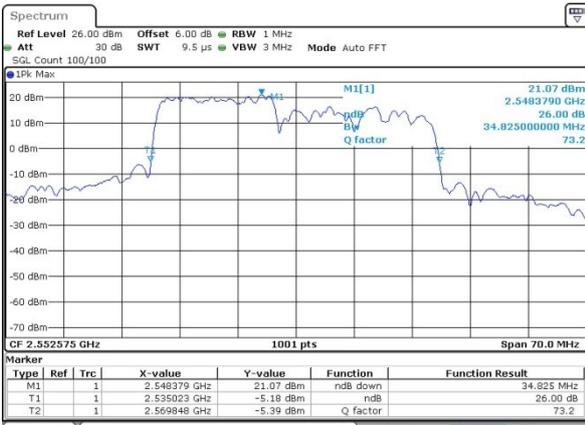
Date: 27.JUL.2019 02:31:11

Date: 27.JUL.2019 01:56:16

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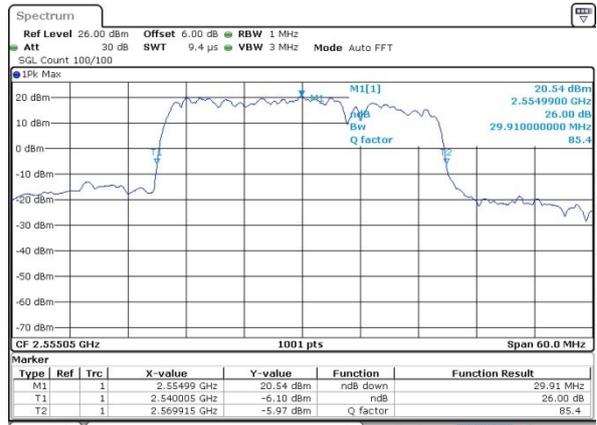
LTE Band 7	
QPSK	
Lowest Channel / 20MHz+15MHz	Lowest Channel / 20MHz+20MHz
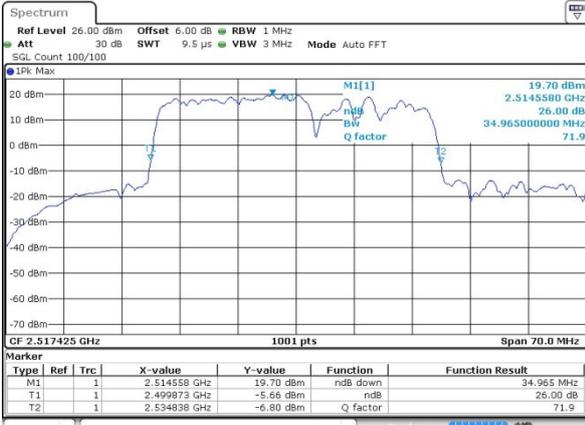
Date: 27 JUL 2019 02:40:15
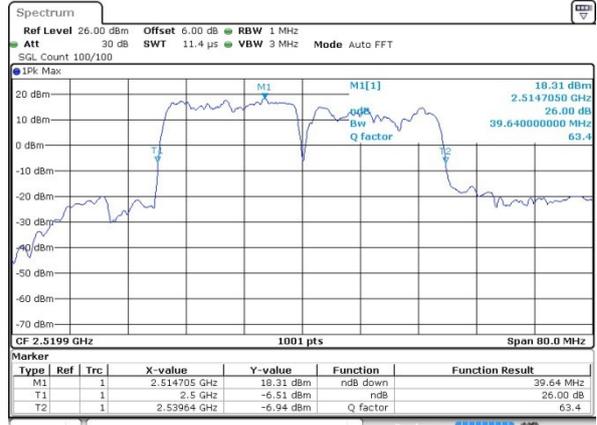
Date: 31 JUL 2019 11:44:13

Middle Channel / 20MHz+15MHz	Middle Channel / 20MHz+20MHz
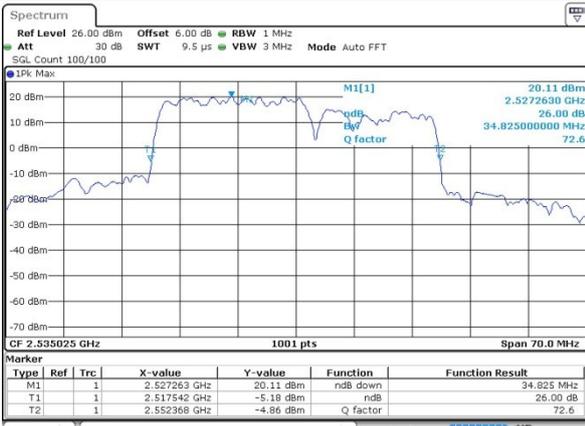
Date: 27 JUL 2019 02:40:48
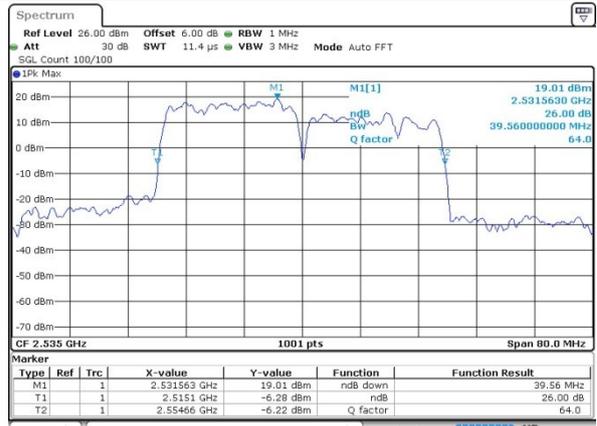
Date: 31 JUL 2019 12:00:51

Highest Channel / 20MHz+15MHz	Highest Channel / 20MHz+20MHz

Date: 27 JUL 2019 02:51:44

Date: 31 JUL 2019 12:03:28

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