

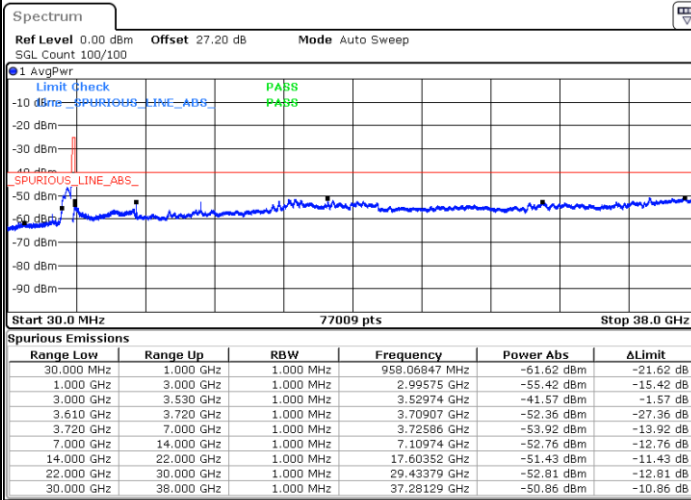


LTE Band 48 / 10MHz

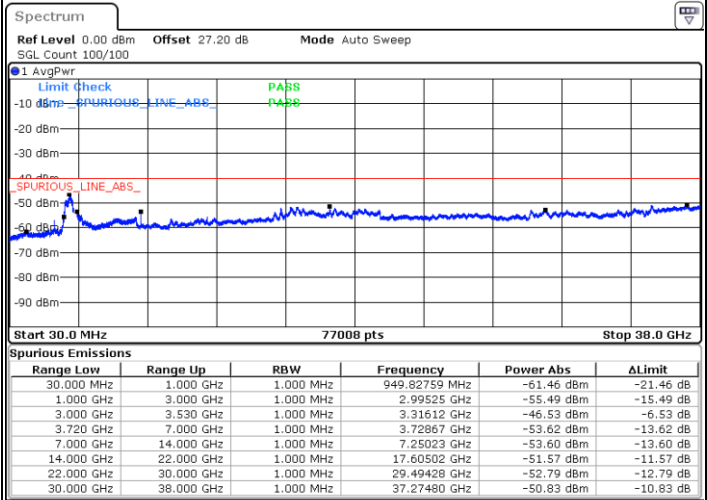
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



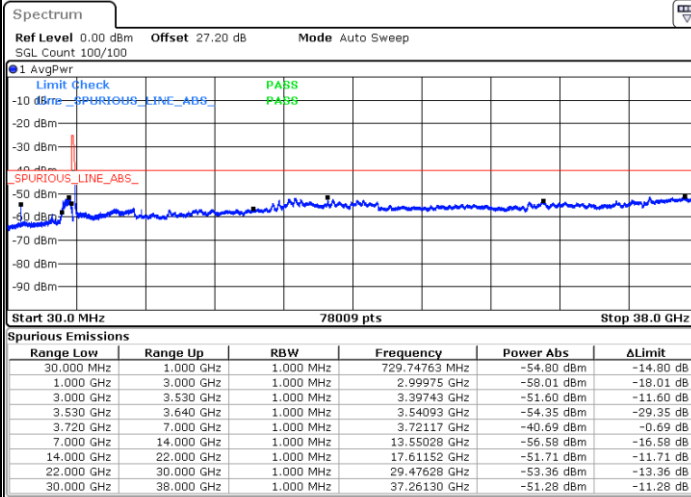
Date: 5.NOV.2020 16:58:31



Date: 5.NOV.2020 16:49:16

Highest Channel / FullIRB

N/A



Date: 9.NOV.2020 11:10:08

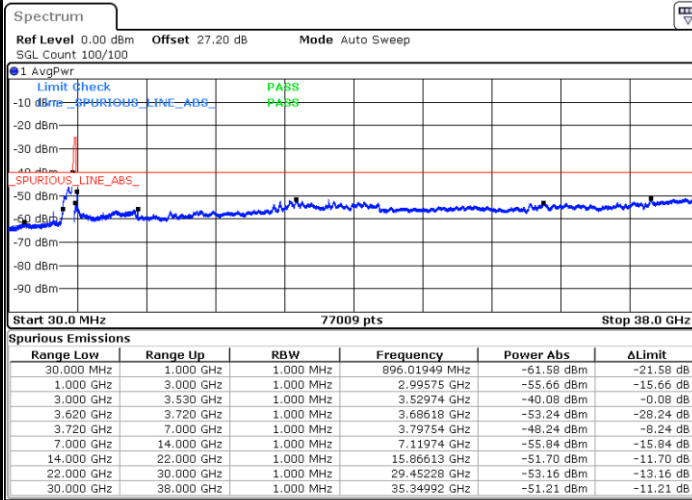


LTE Band 48 / 20MHz

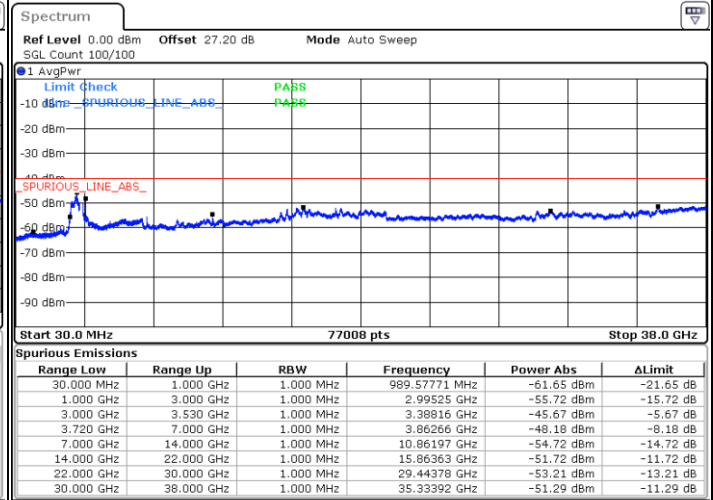
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



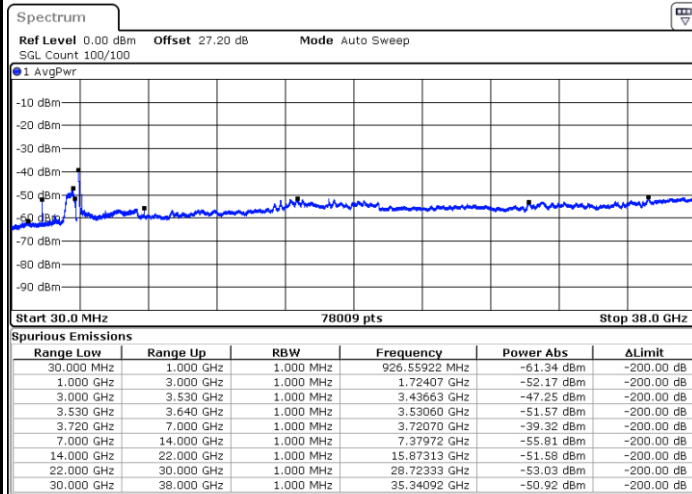
Date: 6.NOV.2020 09:46:14



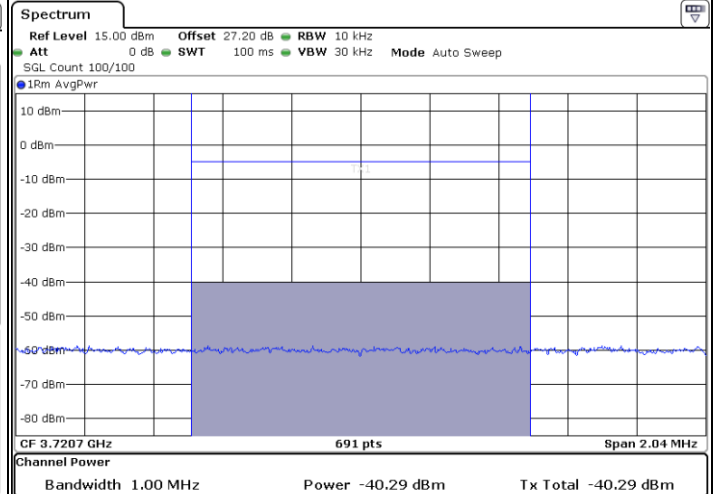
Date: 6.NOV.2020 09:48:16

Highest Channel / FullIRB

Channel Power -40.29dBm<-40dBm(Pass)



Date: 9.NOV.2020 17:56:52



Date: 9.NOV.2020 17:57:40

LTE Band 48 <MIMO 4TX Port 2>

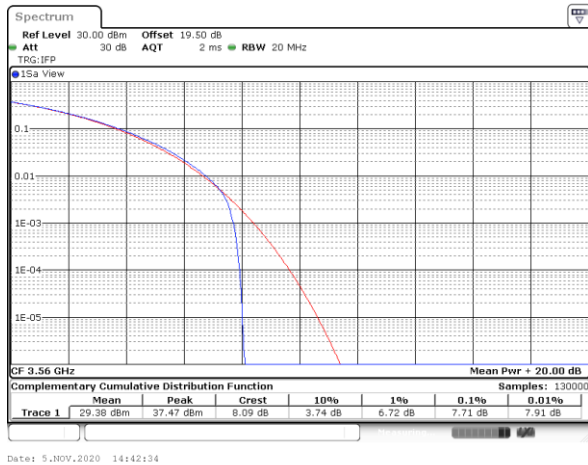
Peak-to-Average Ratio

Mode	LTE Band 48 / 20MHz				Limit: 13dB
Mod.	QPSK		16QAM		
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	N/A	7.71	N/A	7.71	PASS
Middle CH	N/A	7.77	N/A	7.74	
Highest CH	N/A	7.77	N/A	7.77	
Mode	LTE Band 48 / 20MHz				Limit: 13dB
Mod.	64QAM		-		
RB Size	1RB	Full RB	-	-	Result
Lowest CH	N/A	7.83	-	-	PASS
Middle CH	N/A	7.80	-	-	
Highest CH	N/A	7.77	-	-	



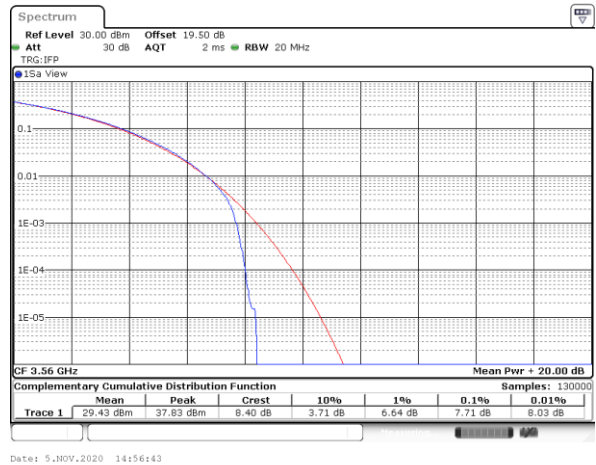
LTE Band 48 / 20MHz / QPSK

Lowest Channel / Full RB

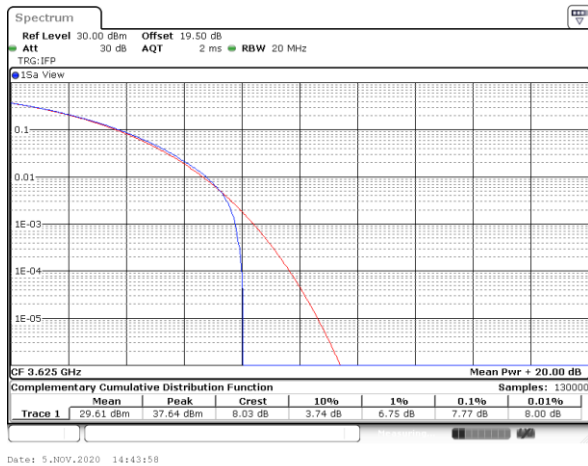


LTE Band 48 / 20MHz / 16QAM

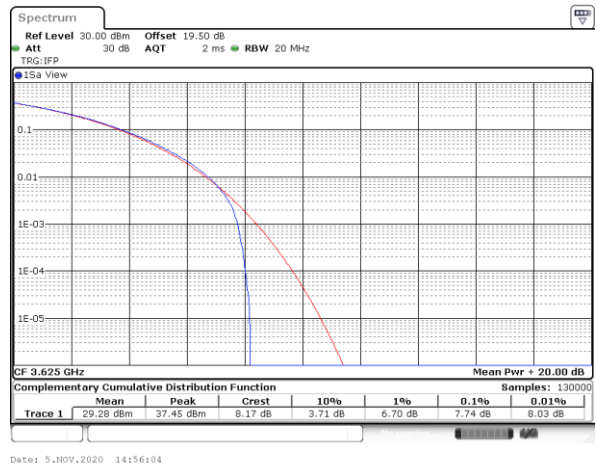
Lowest Channel / Full RB



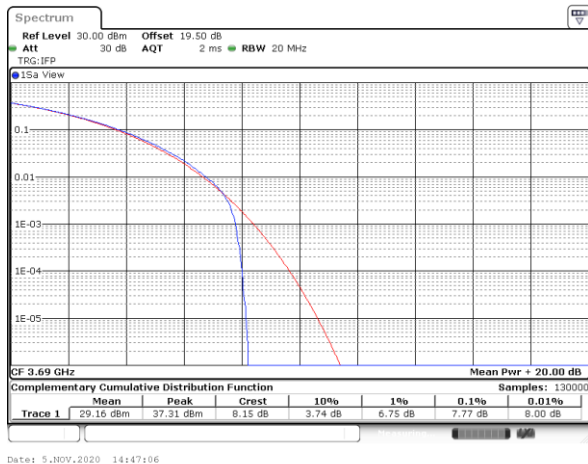
Middle Channel / Full RB



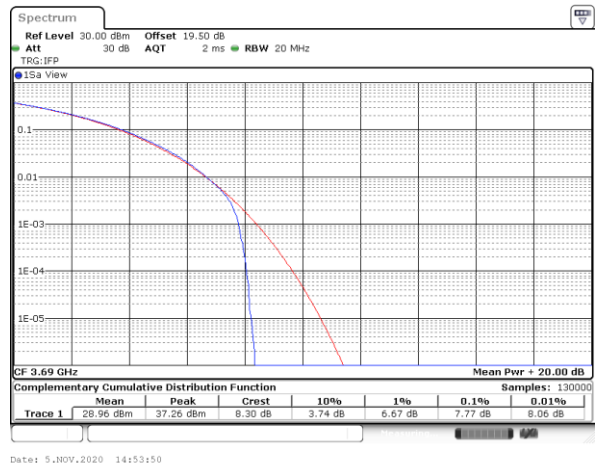
Middle Channel / Full RB



Highest Channel / Full RB



Highest Channel / Full RB

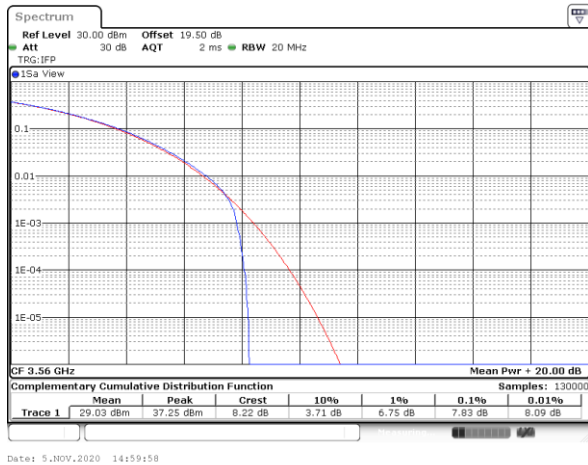




LTE Band 48 / 20MHz / 64QAM

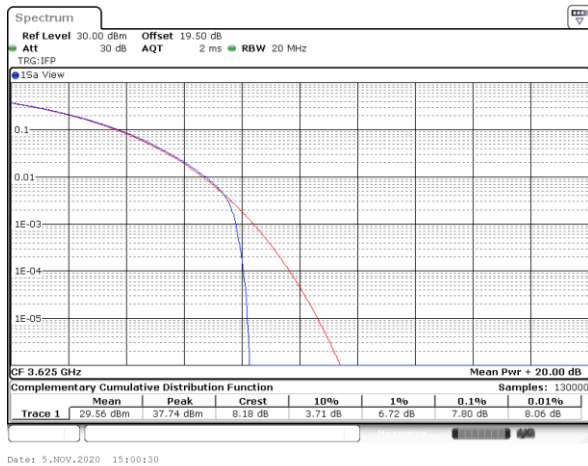
Lowest Channel / Full RB

N/A



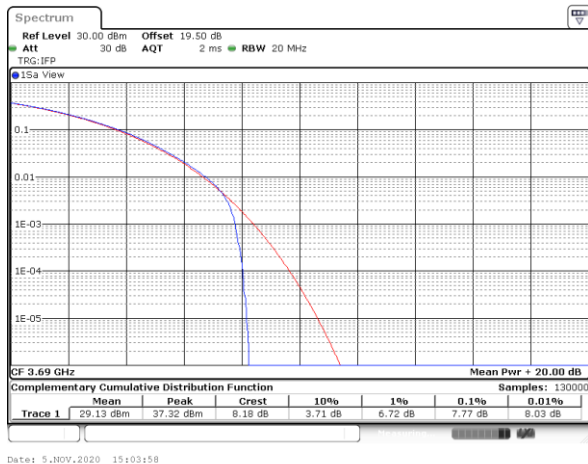
Middle Channel / Full RB

N/A



Highest Channel / Full RB

N/A



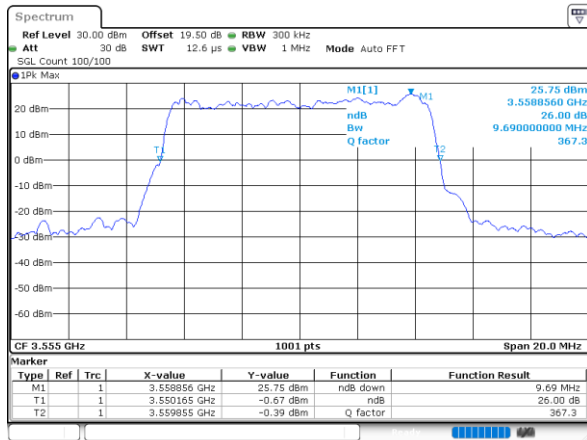
**26dB Bandwidth**

Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	-	9.69	9.67	-	-	18.86	18.82
Middle CH	-	-	-	-	-	-	9.71	9.67	-	-	18.78	18.78
Highest CH	-	-	-	-	-	-	9.65	9.65	-	-	18.94	18.98
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-	-	-	9.65	-	-	-	18.82	-
Middle CH	-	-	-	-	-	-	9.57	-	-	-	18.66	-
Highest CH	-	-	-	-	-	-	9.75	-	-	-	18.82	-

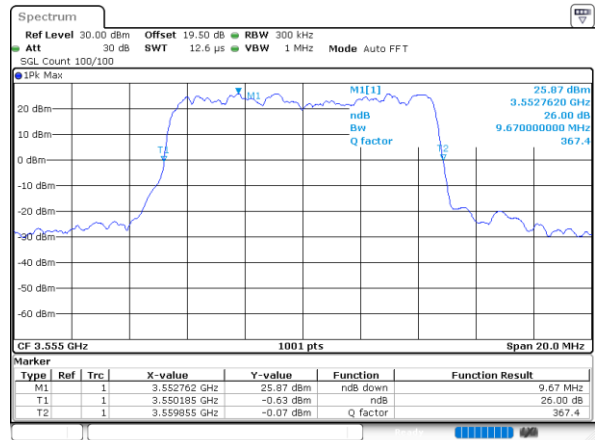


LTE Band 48

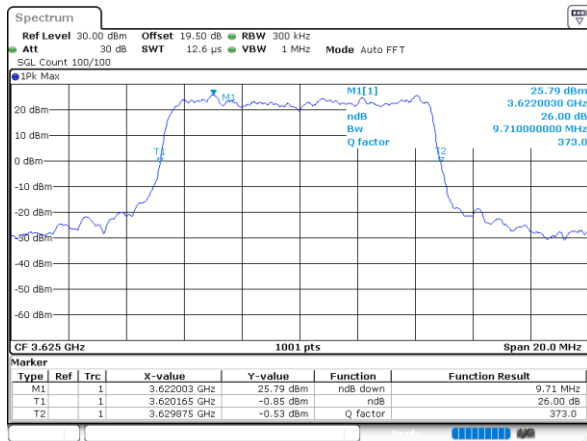
Lowest Channel / 10MHz / QPSK



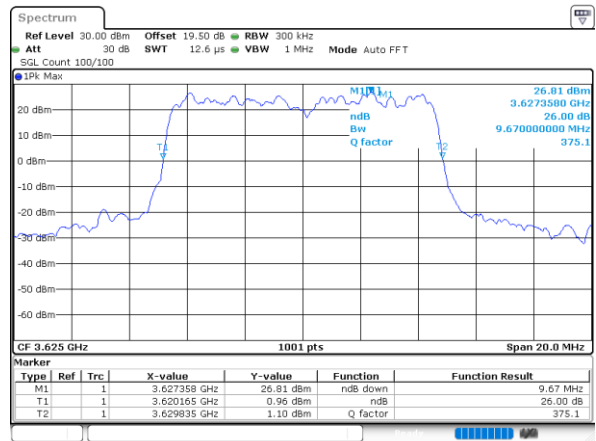
Lowest Channel / 10MHz / 16QAM



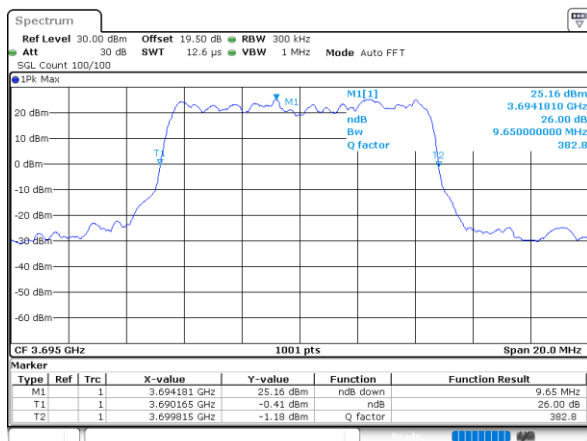
Middle Channel / 10MHz / QPSK



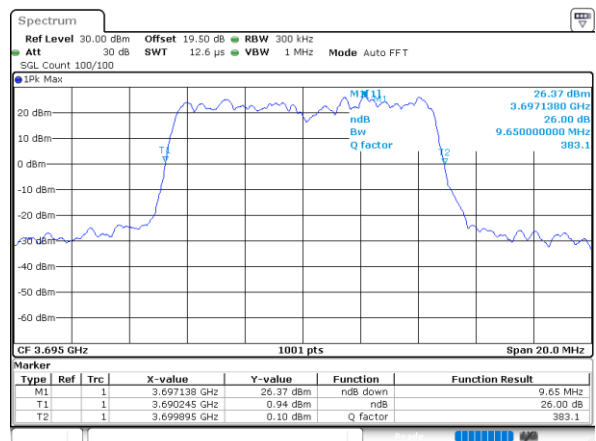
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



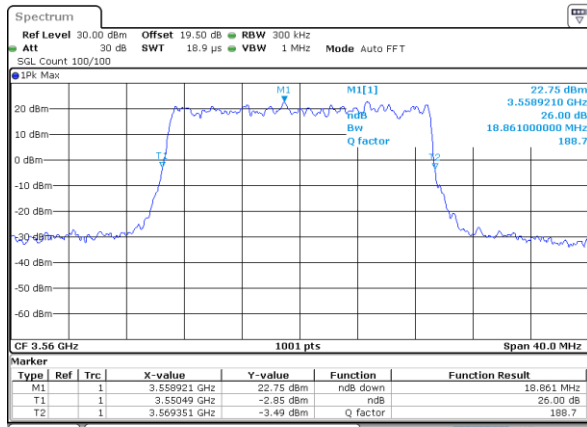
Highest Channel / 10MHz / 16QAM





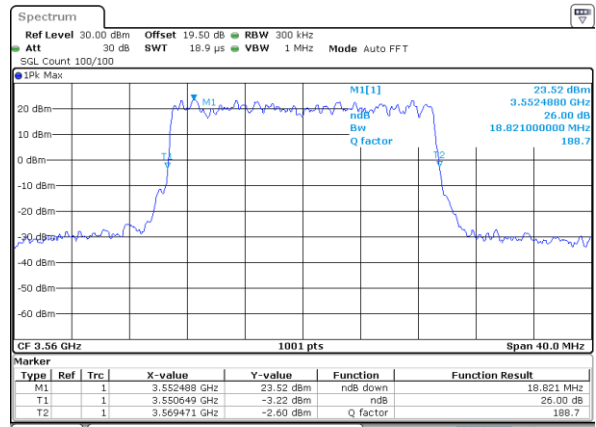
LTE Band 48

Lowest Channel / 20MHz / QPSK



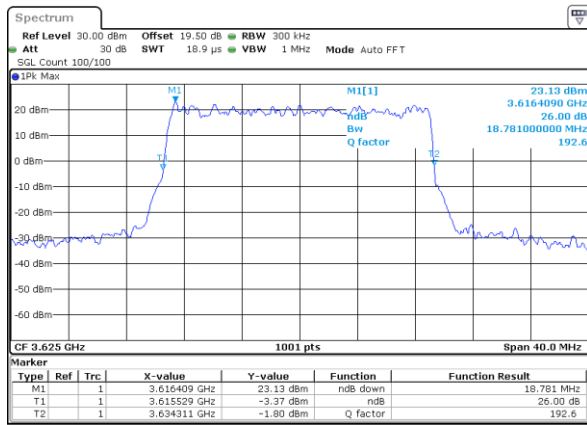
Date: 5.NOV.2020 14:42:13

Lowest Channel / 20MHz / 16QAM



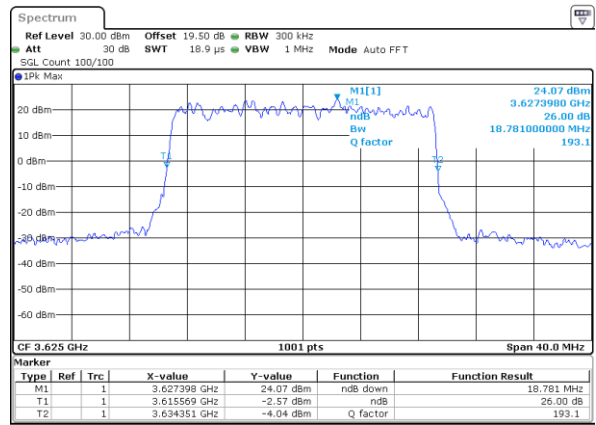
Date: 5.NOV.2020 14:57:03

Middle Channel / 20MHz / QPSK



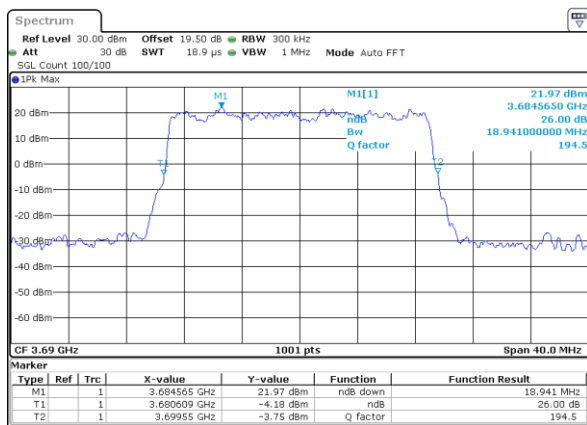
Date: 5.NOV.2020 14:44:39

Middle Channel / 20MHz / 16QAM



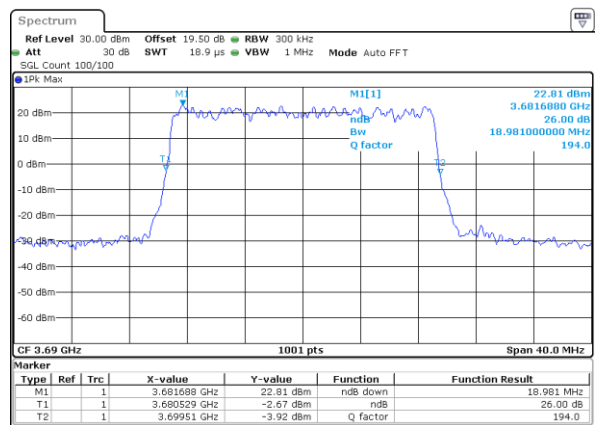
Date: 5.NOV.2020 14:55:38

Highest Channel / 20MHz / QPSK



Date: 5.NOV.2020 14:46:36

Highest Channel / 20MHz / 16QAM

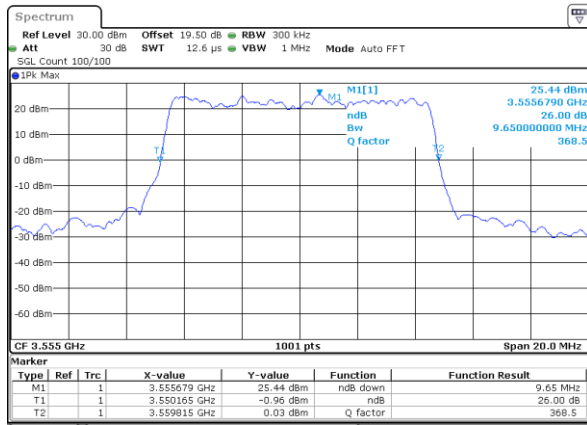


Date: 5.NOV.2020 14:54:14



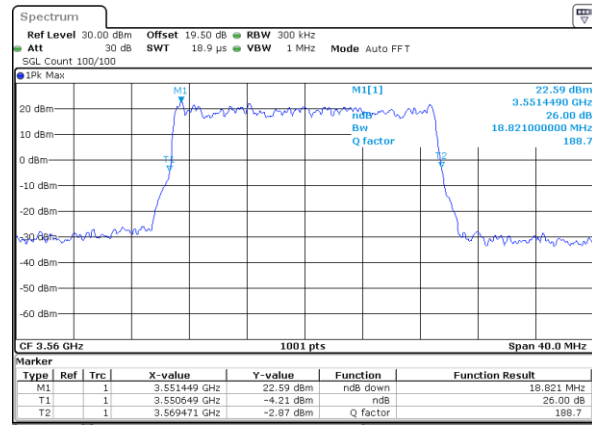
LTE Band 48

Lowest Channel / 10MHz / 64QAM



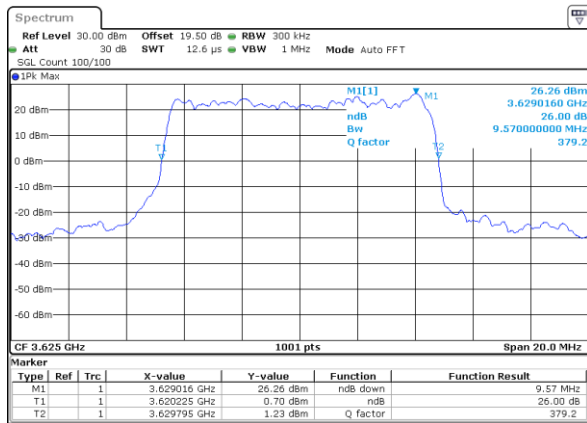
Date: 5.NOV.2020 15:18:08

Lowest Channel / 20MHz / 64QAM



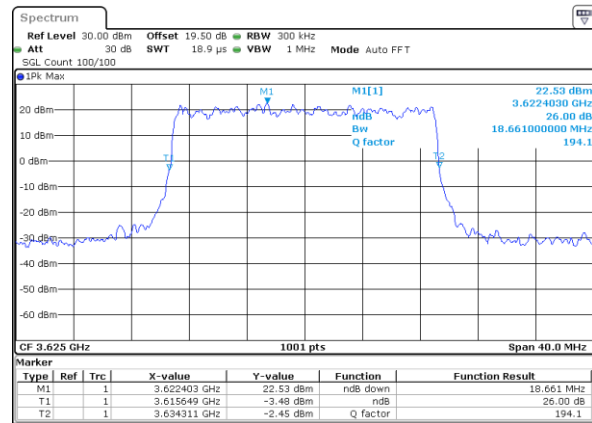
Date: 5.NOV.2020 14:59:30

Middle Channel / 10MHz / 64QAM



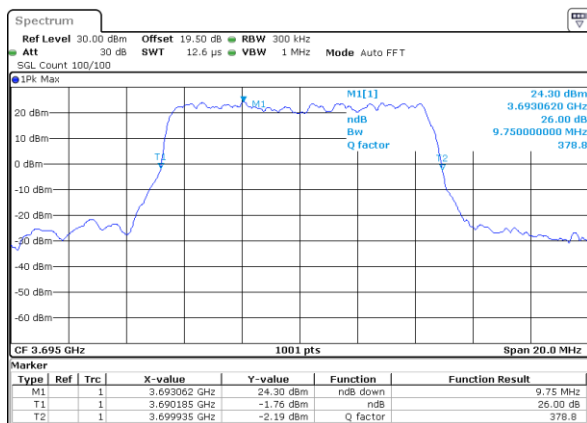
Date: 5.NOV.2020 15:19:42

Middle Channel / 20MHz / 64QAM



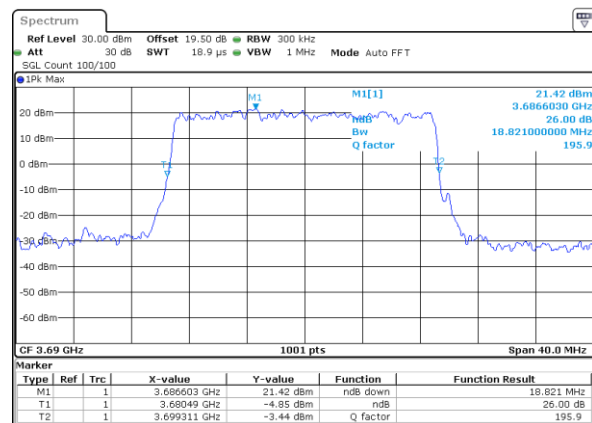
Date: 5.NOV.2020 15:00:55

Highest Channel / 10MHz / 64QAM



Date: 5.NOV.2020 15:22:11

Highest Channel / 20MHz / 64QAM



Date: 5.NOV.2020 15:03:06

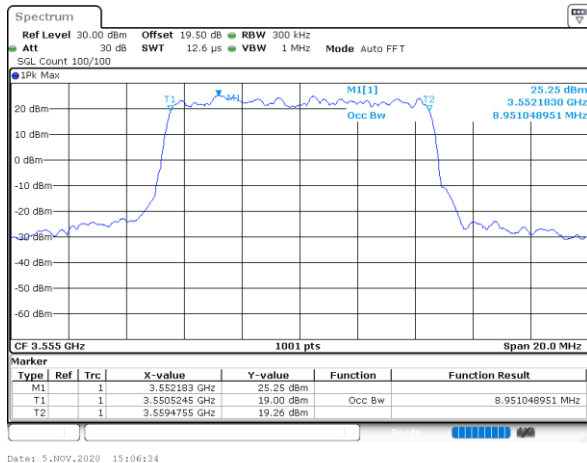
**Occupied Bandwidth**

Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	-	8.95	8.91	-	-	17.90	18.02
Middle CH	-	-	-	-	-	-	8.91	9.03	-	-	17.86	17.86
Highest CH	-	-	-	-	-	-	8.95	8.93	-	-	17.86	17.90
Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-	-	-	8.87	-	-	-	17.78	-
Middle CH	-	-	-	-	-	-	9.01	-	-	-	17.94	-
Highest CH	-	-	-	-	-	-	9.01	-	-	-	17.82	-

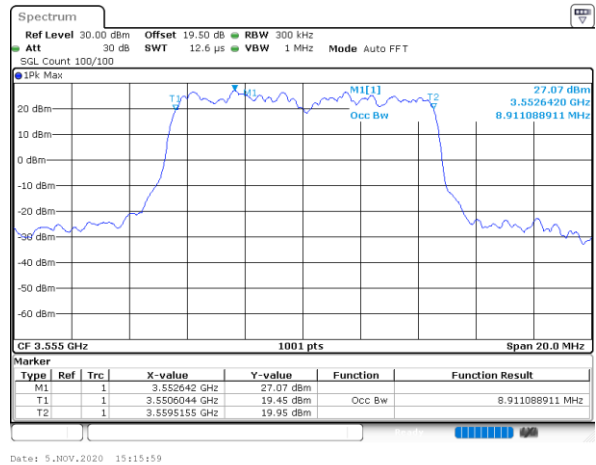


LTE Band 48

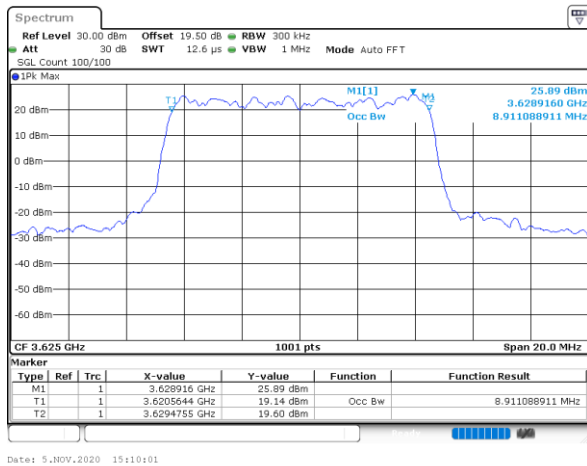
Lowest Channel / 10MHz / QPSK



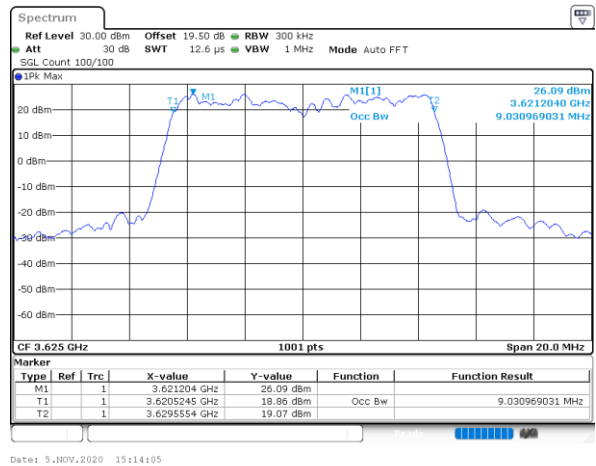
Lowest Channel / 10MHz / 16QAM



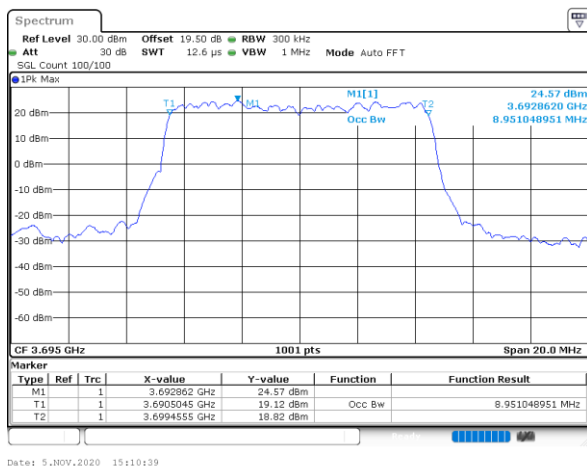
Middle Channel / 10MHz / QPSK



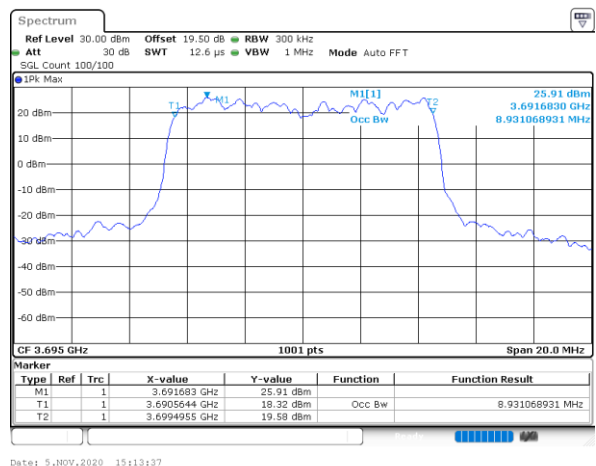
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



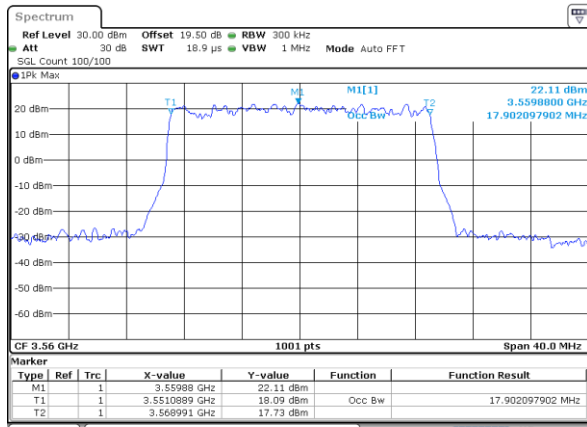
Highest Channel / 10MHz / 16QAM





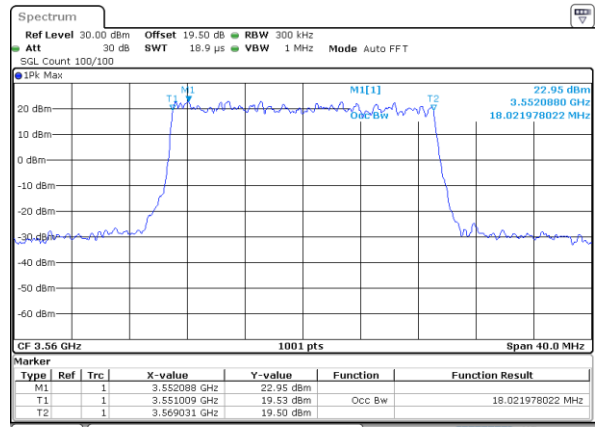
LTE Band 48

Lowest Channel / 20MHz / QPSK



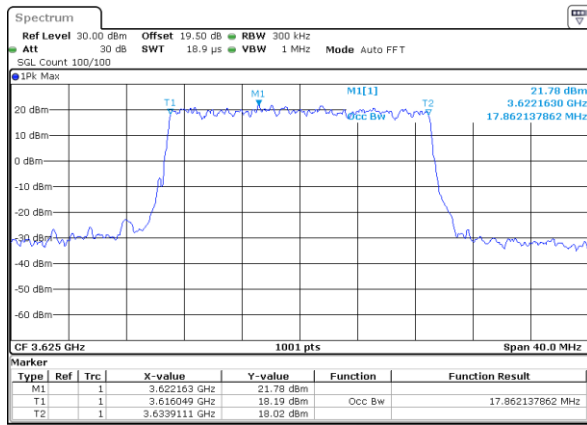
Date: 5.NOV.2020 14:42:01

Lowest Channel / 20MHz / 16QAM



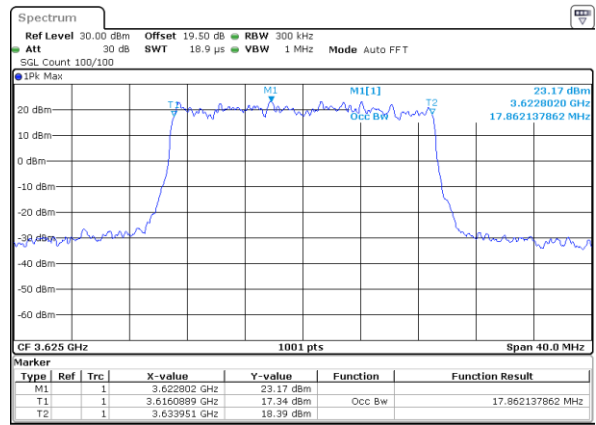
Date: 5.NOV.2020 14:56:53

Middle Channel / 20MHz / QPSK



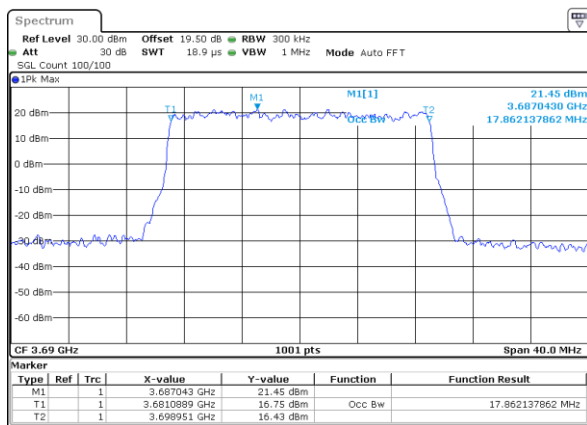
Date: 5.NOV.2020 14:44:09

Middle Channel / 20MHz / 16QAM



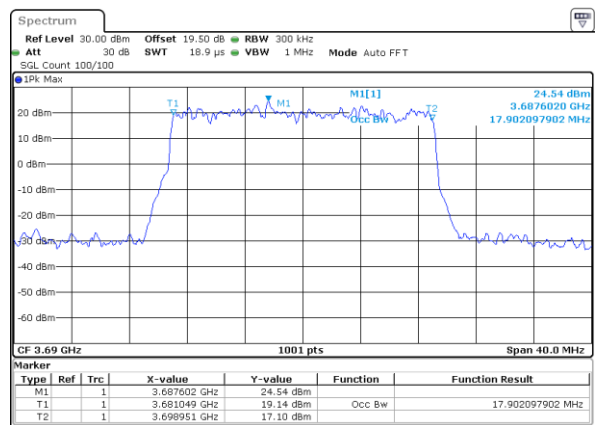
Date: 5.NOV.2020 14:55:49

Highest Channel / 20MHz / QPSK



Date: 5.NOV.2020 14:46:48

Highest Channel / 20MHz / 16QAM

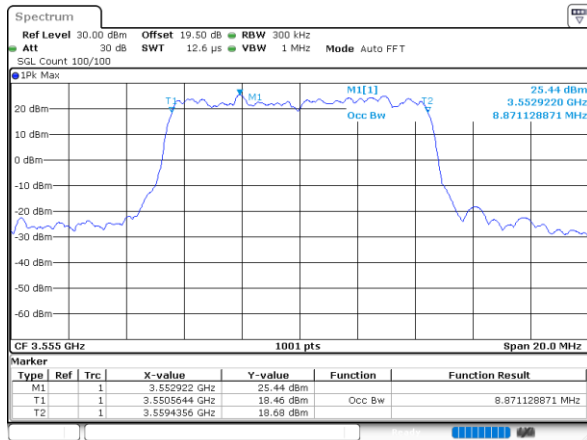


Date: 5.NOV.2020 14:54:03



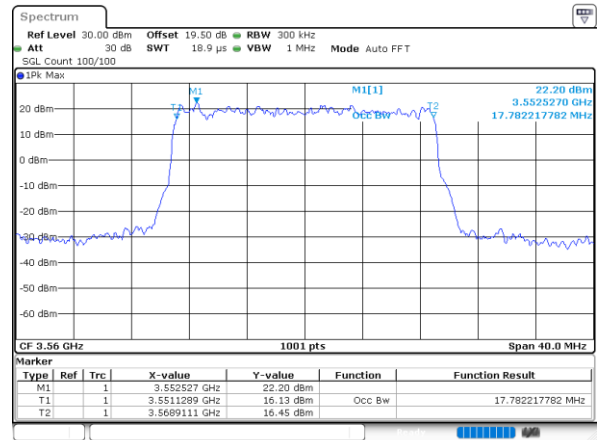
LTE Band 48

Lowest Channel / 10MHz / 64QAM



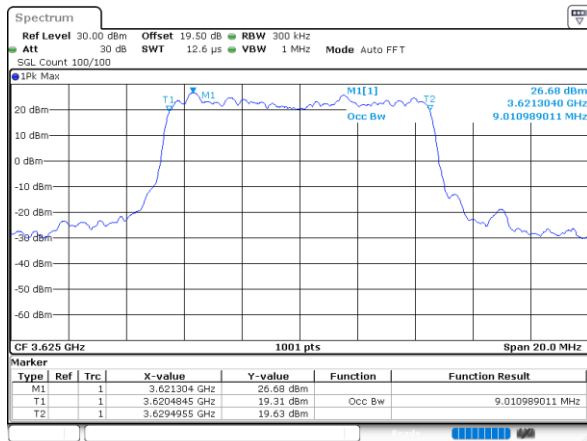
Date: 5.NOV.2020 15:17:57

Lowest Channel / 20MHz / 64QAM



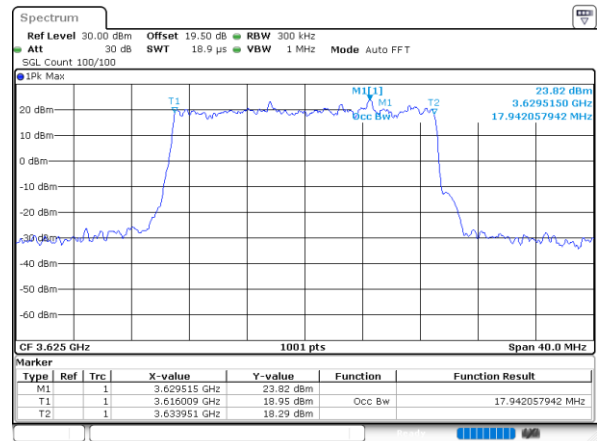
Date: 5.NOV.2020 14:59:41

Middle Channel / 10MHz / 64QAM



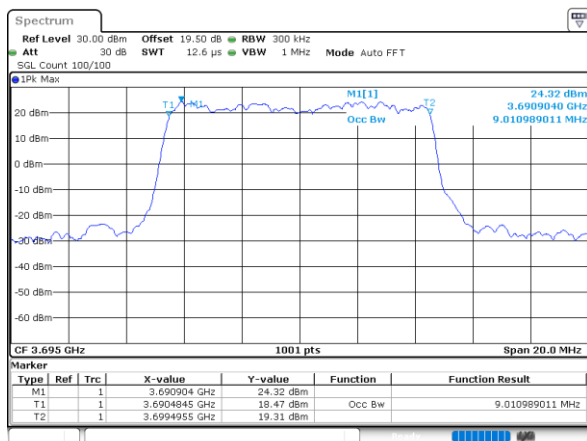
Date: 5.NOV.2020 15:19:54

Middle Channel / 20MHz / 64QAM



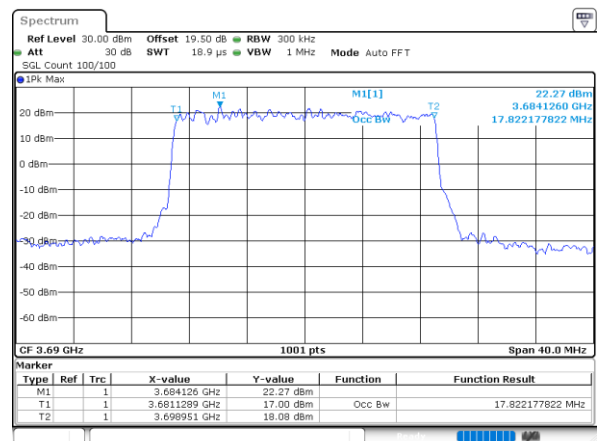
Date: 5.NOV.2020 15:00:41

Highest Channel / 10MHz / 64QAM



Date: 5.NOV.2020 15:21:59

Highest Channel / 20MHz / 64QAM



Date: 5.NOV.2020 15:03:23

**Power Density**

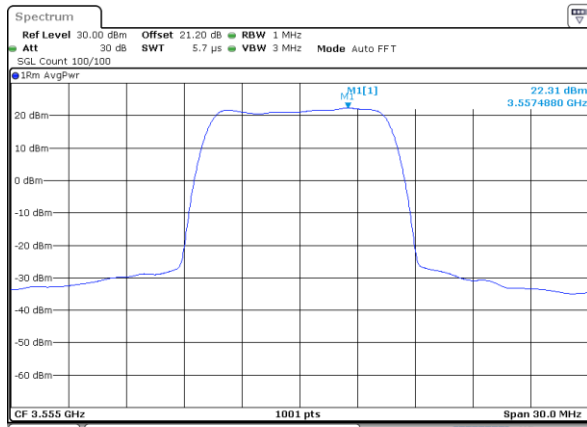
Mode	LTE Band 48 : Conducted Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	-	22.31	22.69	-	-	19.05	19.28
Middle CH	-	-	-	-	-	-	21.87	22.47	-	-	19.22	18.68
Highest CH	-	-	-	-	-	-	21.51	21.02	-	-	18.02	18.32
Mode	LTE Band 48 : Conducted Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-	-	-	21.53	-	-	-	19.28	-
Middle CH	-	-	-	-	-	-	22.20	-	-	-	19.51	-
Highest CH	-	-	-	-	-	-	21.56	-	-	-	18.12	-

Mode	LTE Band 48 : EIRP Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-			35.51	35.89			32.25	32.48
Middle CH	-	-	-	-			35.07	35.67			32.42	31.88
Highest CH	-	-	-	-			34.71	34.22			31.22	31.52
Mode	LTE Band 48 : EIRP Power Density (dBm/MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	-	-	-	-		-	34.73	-		-	32.48	-
Middle CH	-	-	-	-		-	35.4	-		-	32.71	-
Highest CH	-	-	-	-		-	34.76	-		-	31.32	-
Antenna Gain	13.2 dBi											
Limit	37dBm / MHz											
Result	Pass											



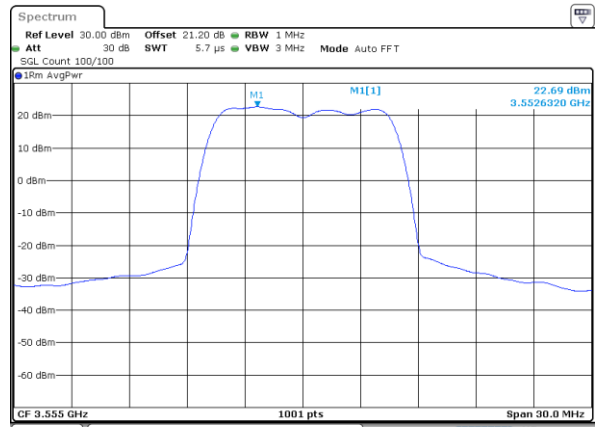
LTE Band 48 / 10MHz

Lowest Channel / 10MHz / Full / QPSK



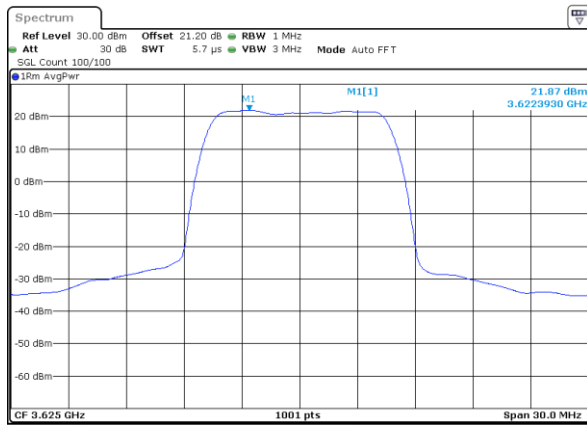
Date: 5.NOV.2020 15:08:18

Lowest Channel / 10MHz / Full / 16QAM



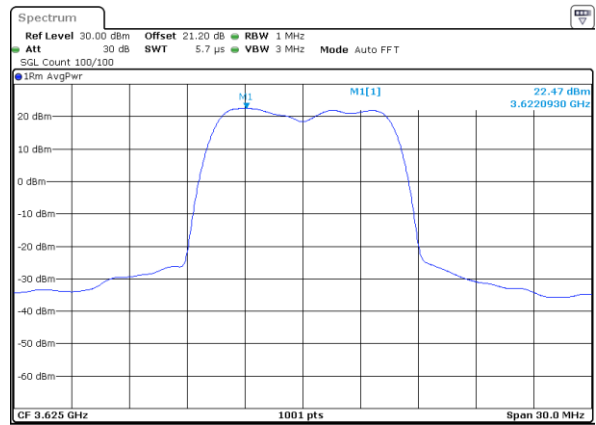
Date: 5.NOV.2020 15:15:32

Middle Channel / 10MHz / Full / QPSK



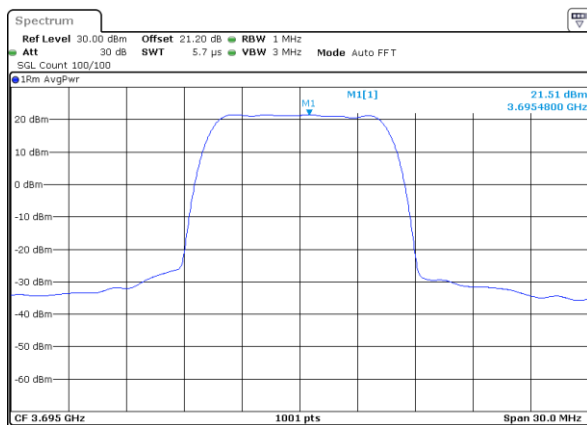
Date: 5.NOV.2020 15:09:33

Middle Channel / 10MHz / Full / 16QAM



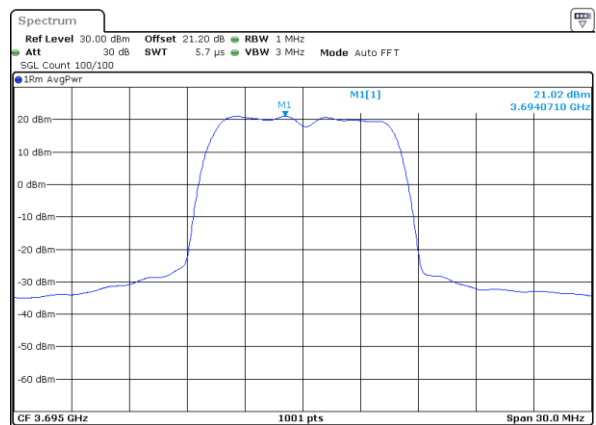
Date: 5.NOV.2020 15:14:39

Highest Channel / 10MHz / Full / QPSK



Date: 5.NOV.2020 15:11:16

Highest Channel / 10MHz / Full / 16QAM

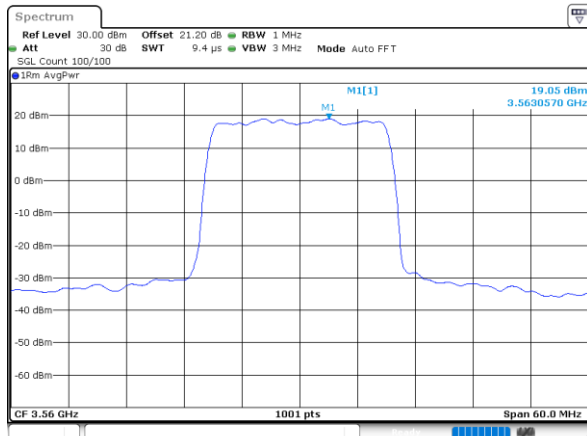


Date: 5.NOV.2020 15:13:06



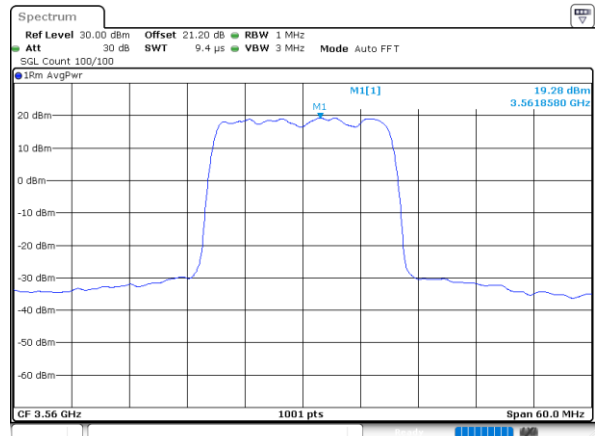
LTE Band 48 / 20MHz

Lowest Channel / 20MHz / Full / QPSK



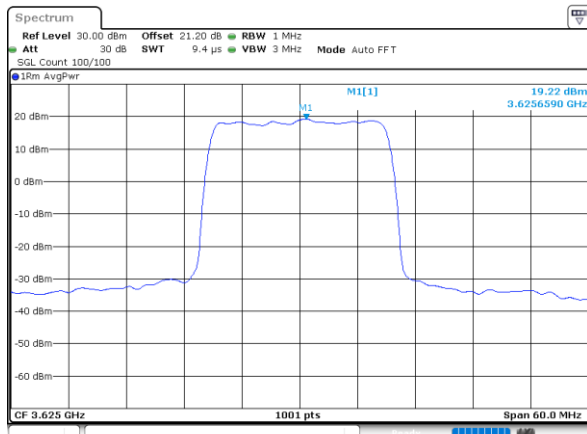
Date: 5.NOV.2020 14:41:34

Lowest Channel / 20MHz / Full / 16QAM



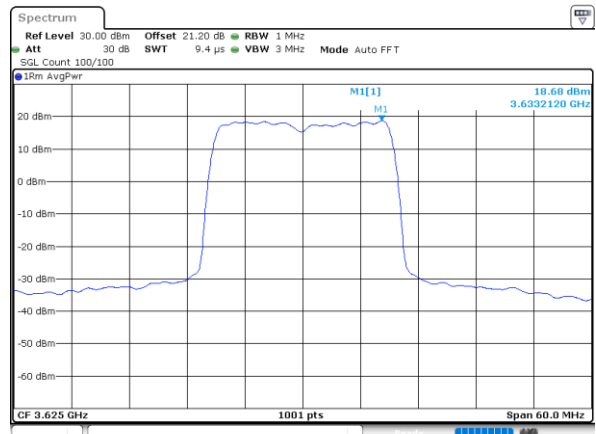
Date: 5.NOV.2020 14:57:25

Middle Channel / 20MHz / Full / QPSK



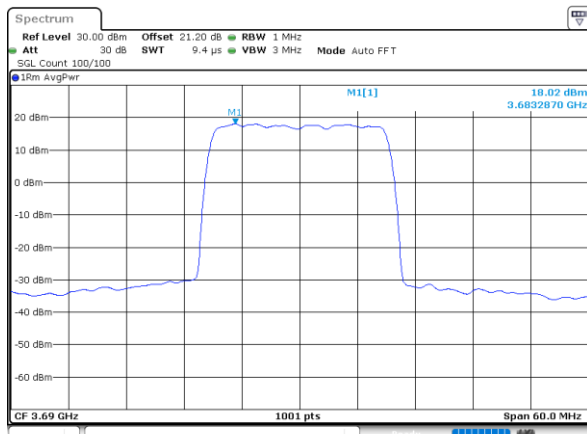
Date: 5.NOV.2020 14:45:00

Middle Channel / 20MHz / Full / 16QAM



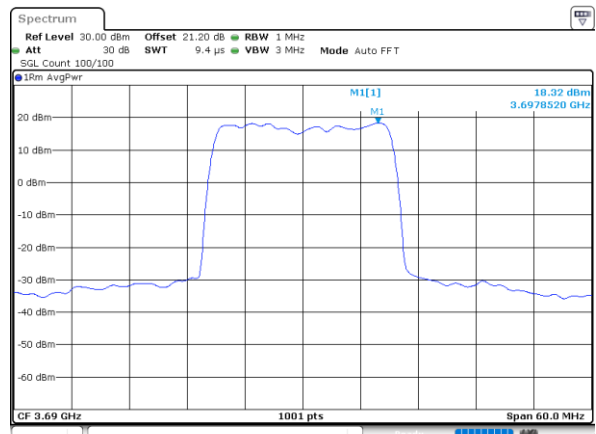
Date: 5.NOV.2020 14:55:23

Highest Channel / 20MHz / Full / QPSK



Date: 5.NOV.2020 14:46:12

Highest Channel / 20MHz / Full / 16QAM

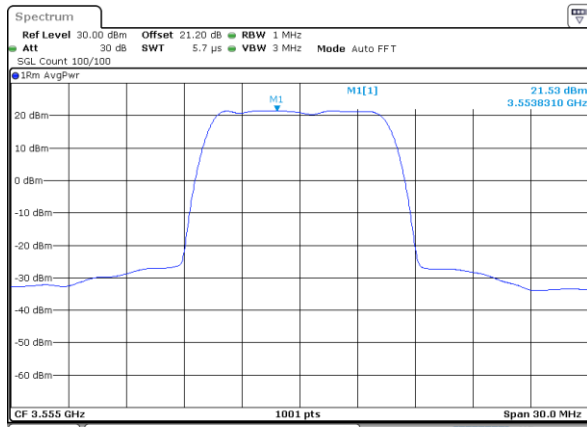


Date: 5.NOV.2020 14:54:38



LTE Band 48 / 10MHz

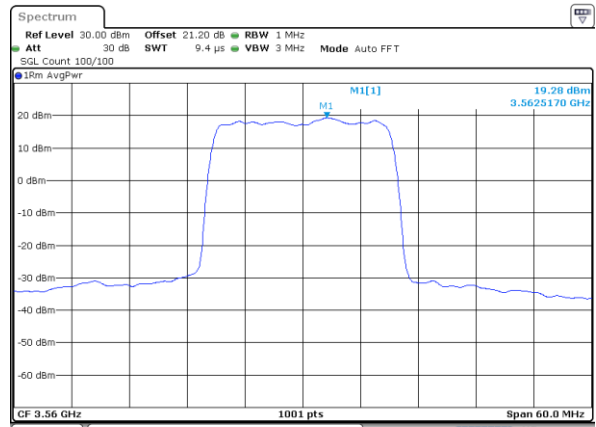
Lowest Channel / 10MHz / Full / 64QAM



Date: 5.NOV.2020 15:18:29

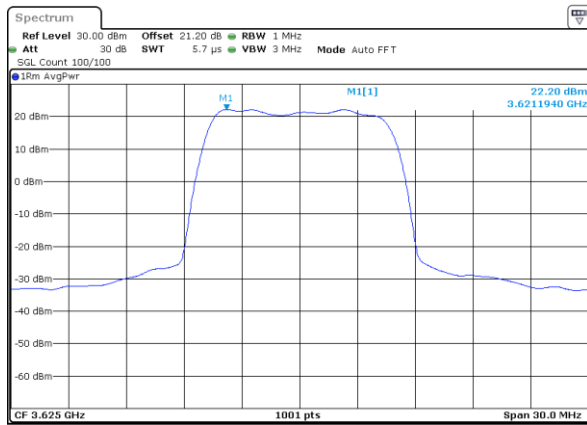
LTE Band 48 / 20MHz

Lowest Channel / 20MHz / Full / 64QAM



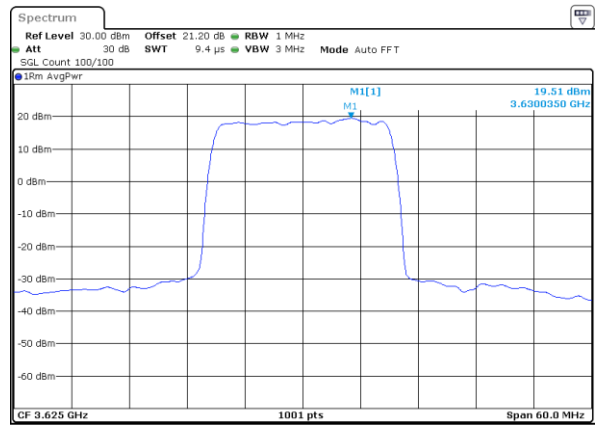
Date: 5.NOV.2020 14:59:08

Middle Channel / 10MHz / Full / 64QAM



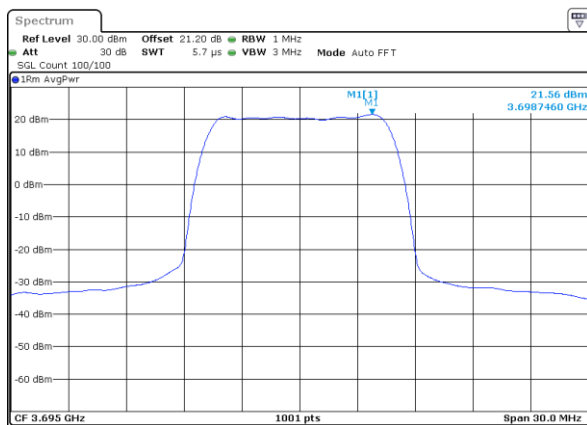
Date: 5.NOV.2020 15:19:30

Middle Channel / 20MHz / Full / 64QAM



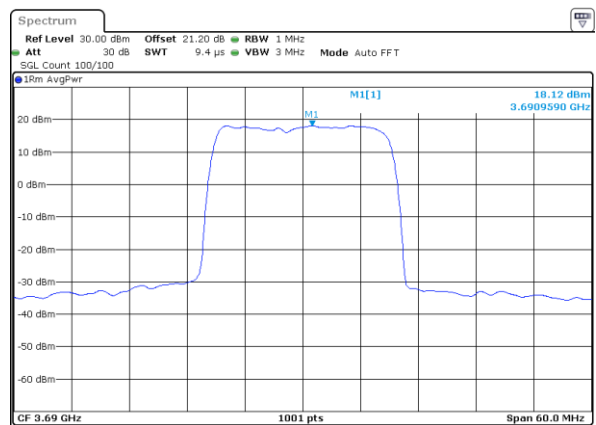
Date: 5.NOV.2020 15:01:44

Highest Channel / 10MHz / Full / 64QAM

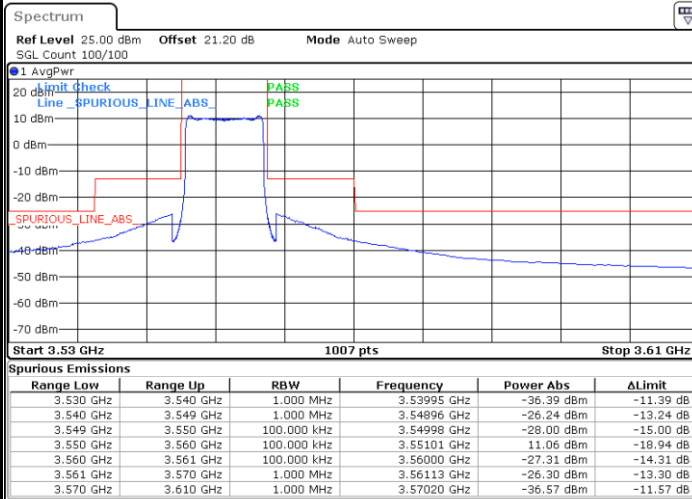
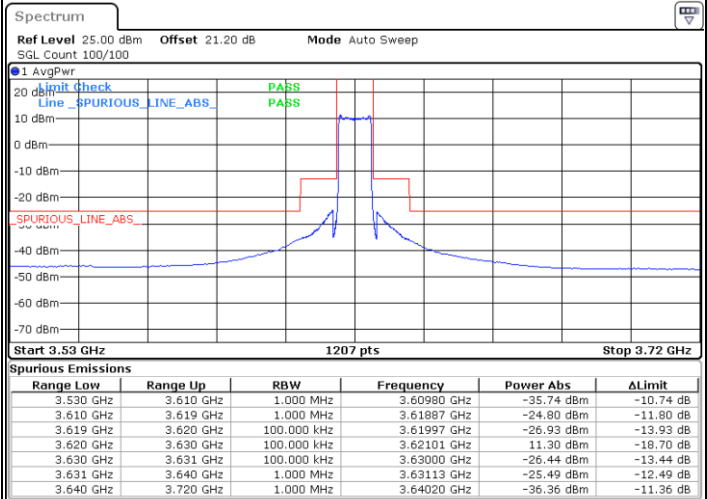
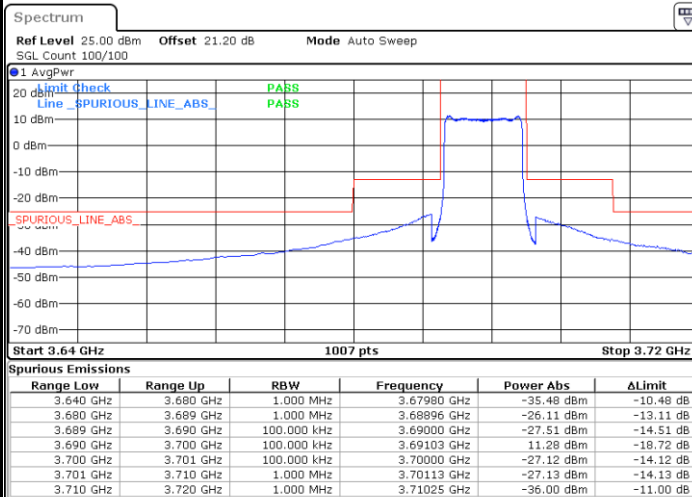


Date: 5.NOV.2020 15:22:32

Highest Channel / 20MHz / Full / 64QAM



Date: 5.NOV.2020 15:02:27

**Conducted Band Edge****LTE Band 48 / 10MHz****QPSK****Lowest Channel / FullIRB****Middle Channel / FullIRB****Highest Channel / FullIRB****N/A**

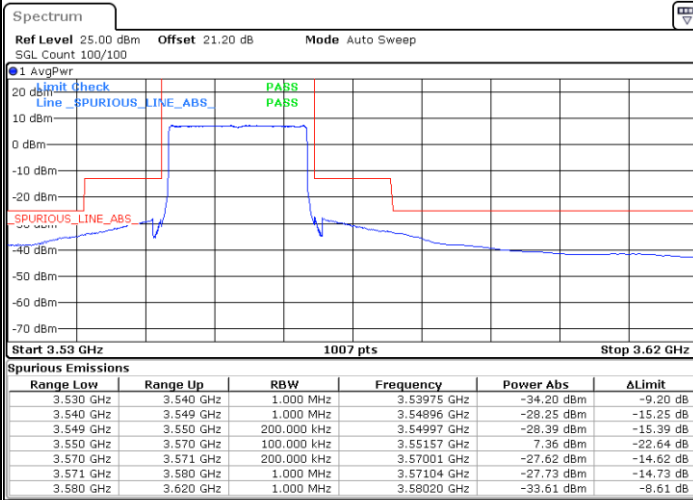


LTE Band 48 / 20MHz

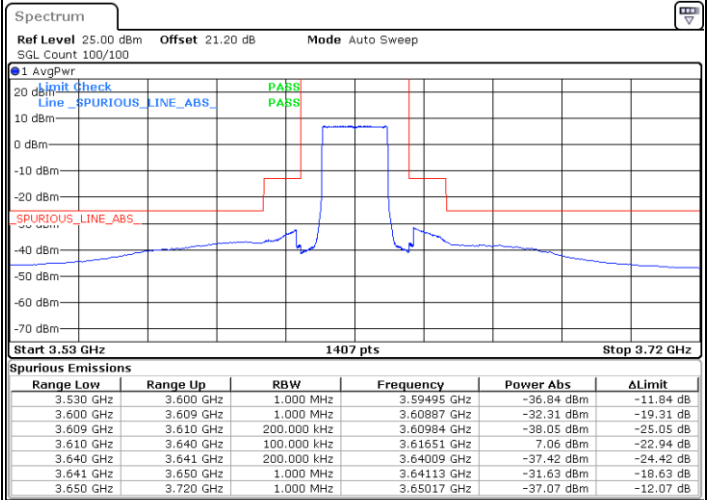
QPSK

Lowest Channel / FullIRB

Middle Channel / FullIRB



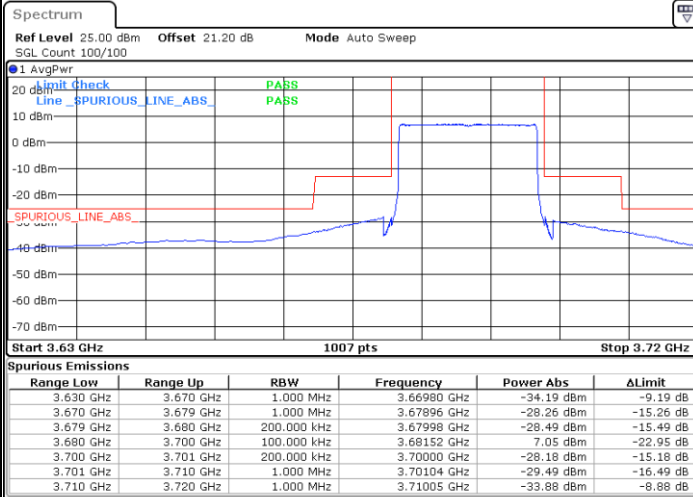
Date: 28.OCT.2020 14:33:20



Date: 28.OCT.2020 14:31:39

Highest Channel / FullIRB

N/A



Date: 28.OCT.2020 14:29:19

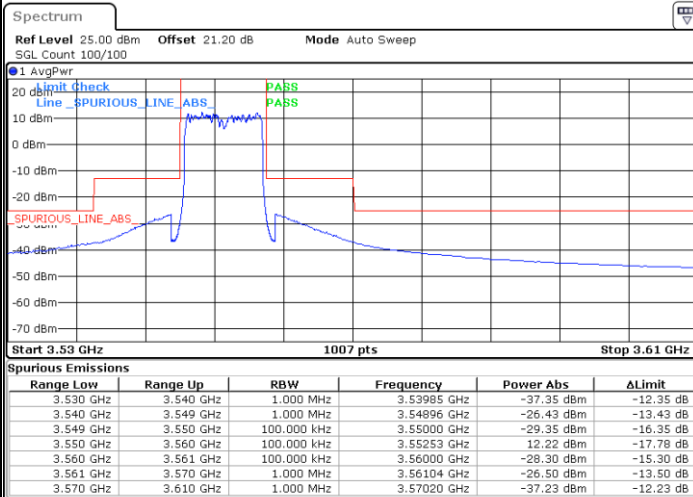


LTE Band 48 / 10MHz

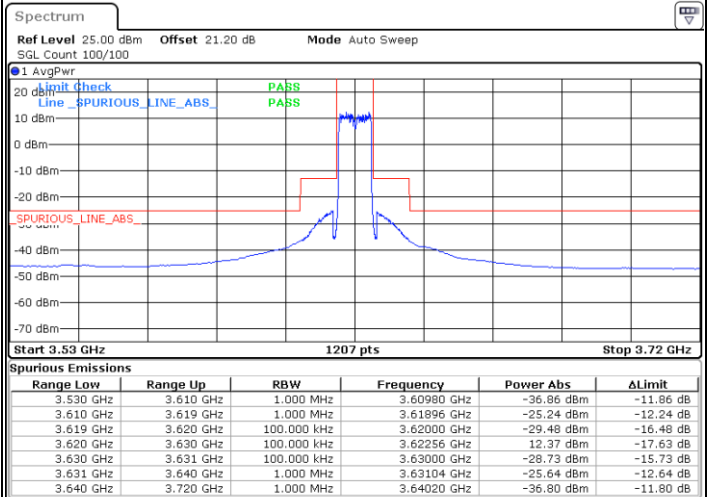
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



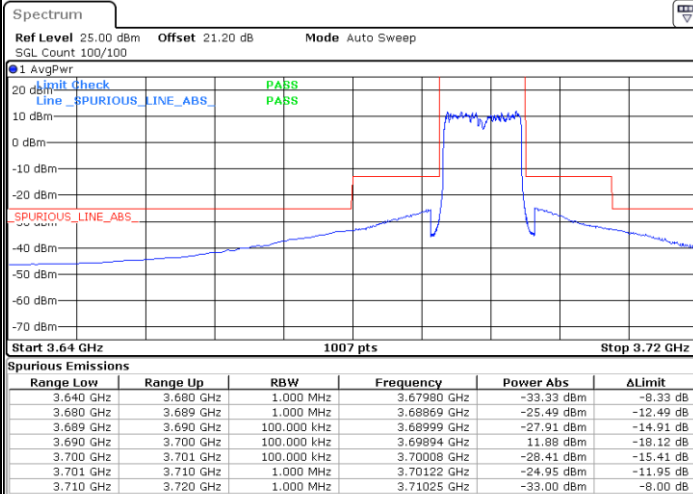
Date: 28.OCT.2020 15:17:51



Date: 28.OCT.2020 15:16:58

Highest Channel / FullIRB

N/A



Date: 28.OCT.2020 15:16:01

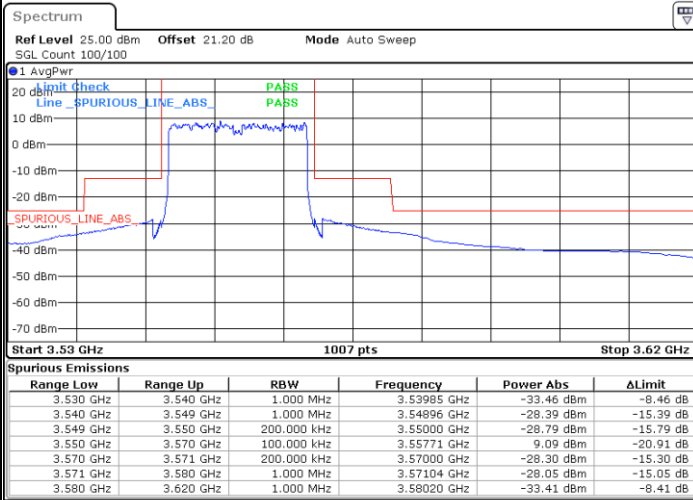


LTE Band 48 / 20MHz

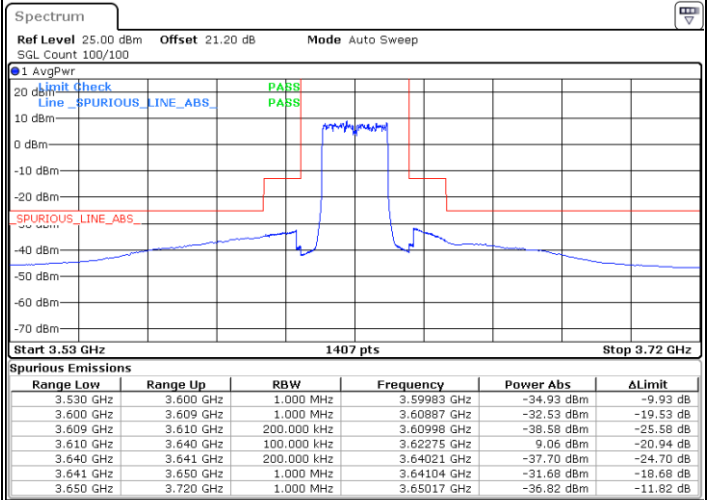
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



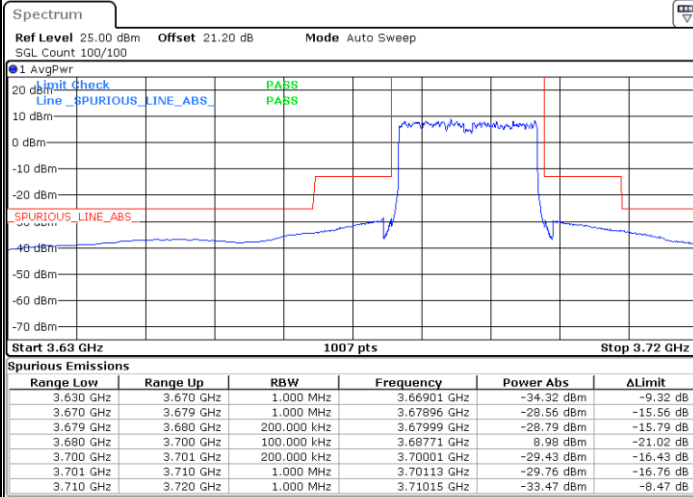
Date: 28.OCT.2020 14:42:44



Date: 28.OCT.2020 14:51:38

Highest Channel / FullIRB

N/A



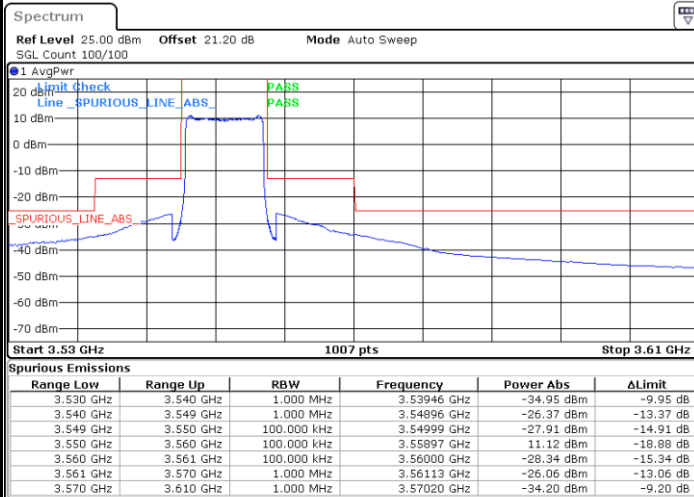
Date: 28.OCT.2020 14:54:06



LTE Band 48 / 10MHz

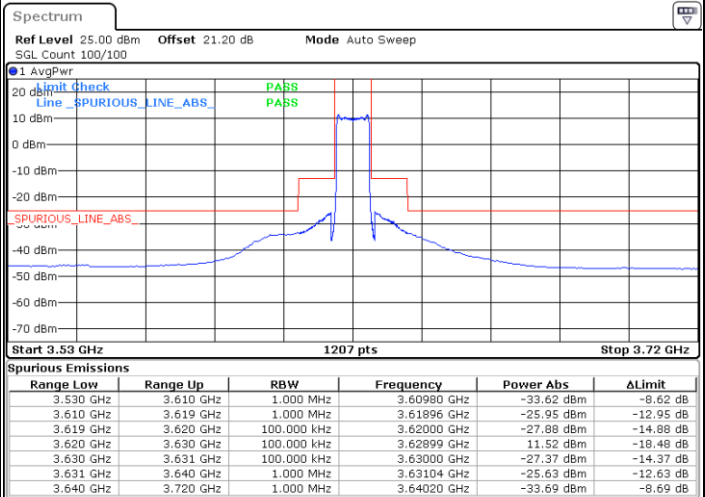
64QAM

Lowest Channel / FullIRB



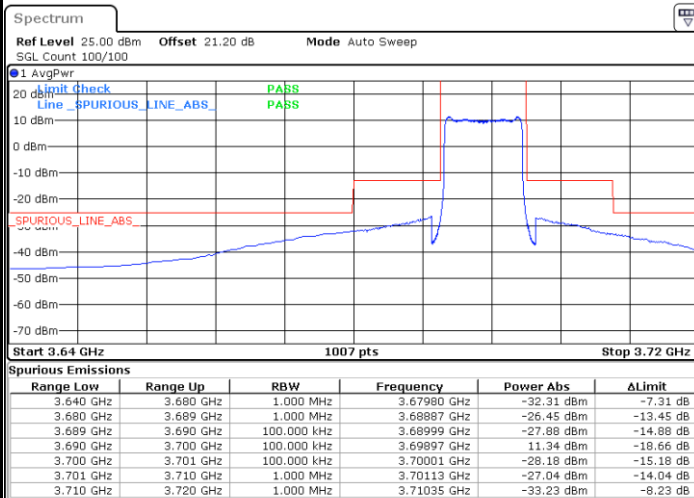
Date: 28.OCT.2020 15:19:59

Middle Channel / FullIRB



Date: 28.OCT.2020 15:21:00

Highest Channel / FullIRB



Date: 28.OCT.2020 15:22:00

N/A

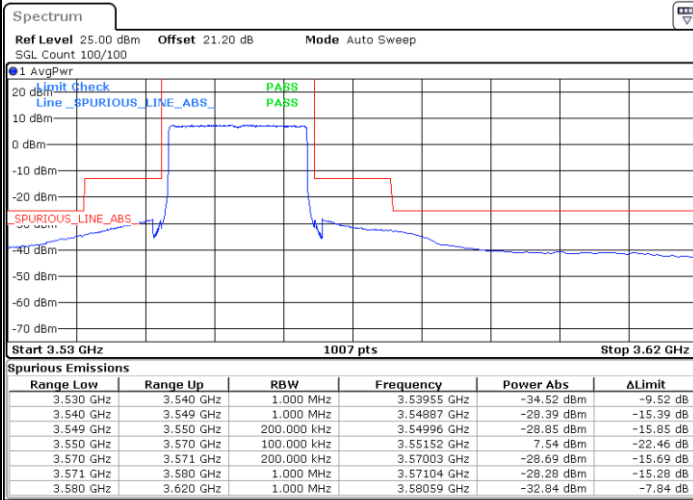


LTE Band 48 / 20MHz

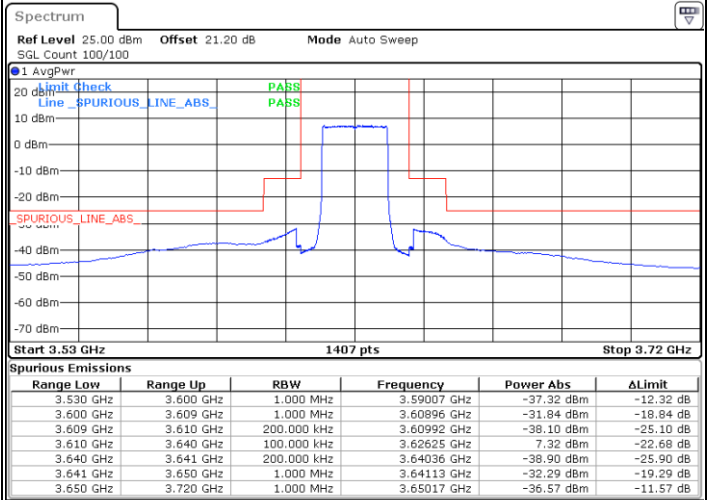
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



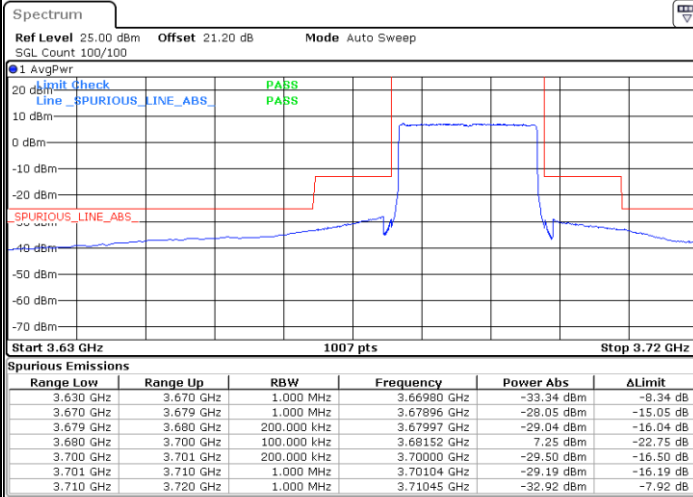
Date: 28.OCT.2020 15:06:09



Date: 28.OCT.2020 15:03:47

Highest Channel / FullIRB

N/A



Date: 28.OCT.2020 15:00:57

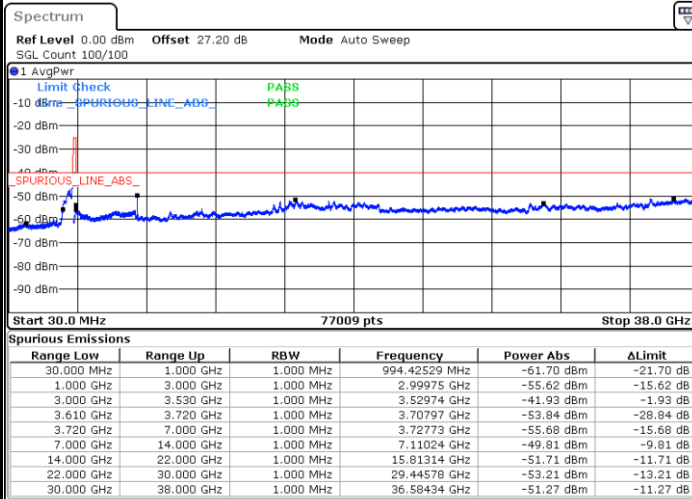


Conducted Spurious Emission

LTE Band 48 / 10MHz

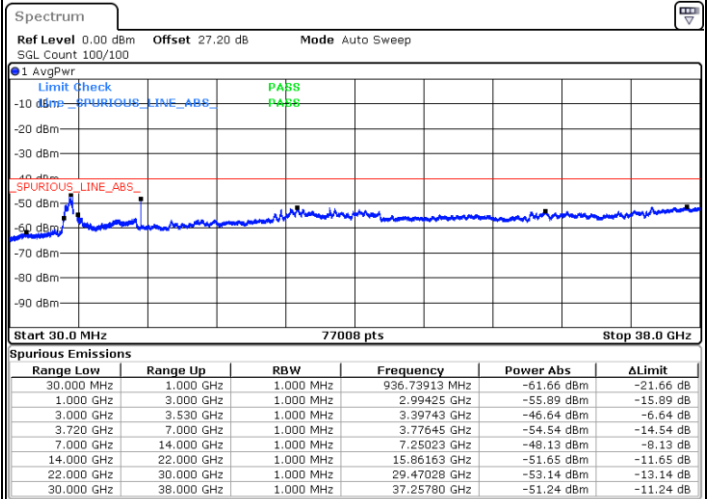
QPSK

Lowest Channel / FullIRB



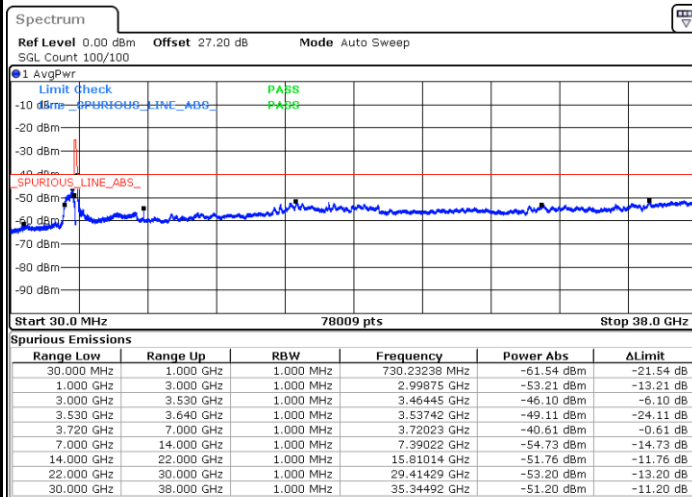
Date: 6.NOV.2020 11:02:19

Middle Channel / FullIRB



Date: 6.NOV.2020 11:04:15

Highest Channel / FullIRB



Date: 9.NOV.2020 09:31:46

N/A

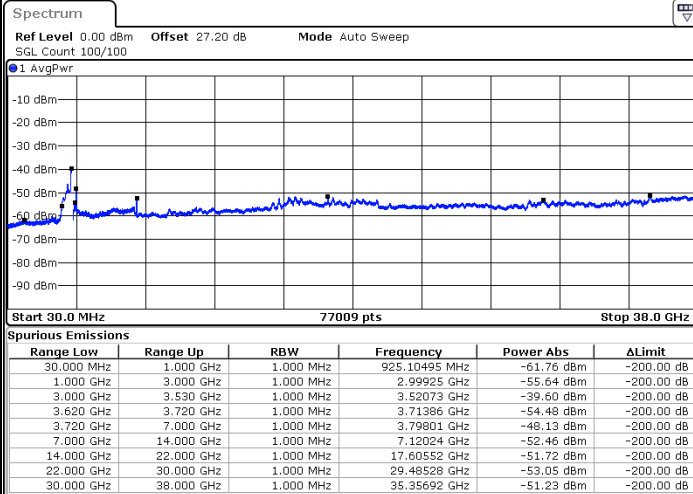


LTE Band 48 / 20MHz

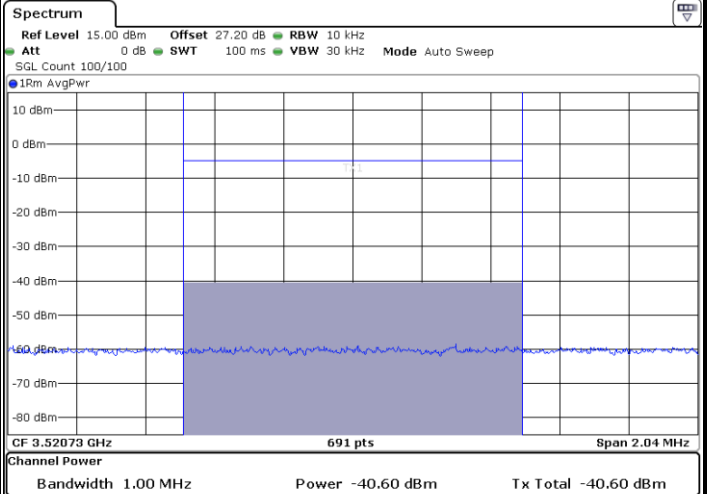
QPSK

Lowest Channel / FullIRB

Channel Power -40.60dBm<-40dBm(Pass)



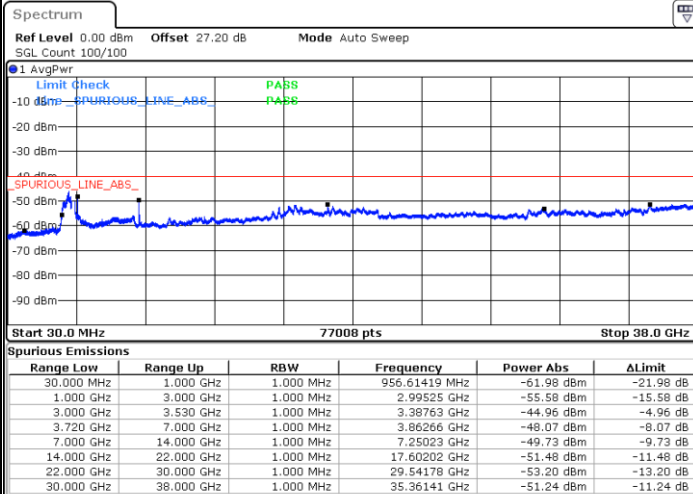
Date: 6.NOV.2020 10:13:21



Date: 6.NOV.2020 10:14:01

Middle Channel / FullIRB

N/A



Date: 6.NOV.2020 10:00:34



LTE Band 48 / 20MHz

QPSK

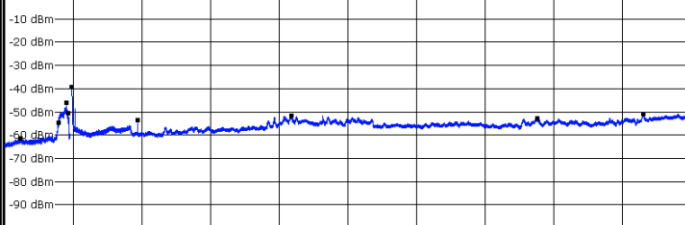
Highest Channel / FullIRB

Channel Power -40.50dBm<-40dBm(Pass)

Spectrum

Ref Level 0.00 dBm Offset 27.20 dB Mode Auto Sweep
SGL Count 100/100

1 AvgPwr



Start 30.0 MHz 78009 pts Stop 38.0 GHz

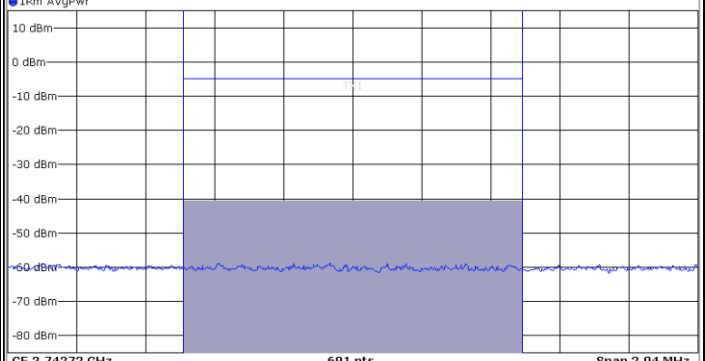
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	916.37931 MHz	-61.54 dBm	-200.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99925 GHz	-54.70 dBm	-200.00 dB
3.000 GHz	3.530 GHz	1.000 MHz	3.45253 GHz	-46.22 dBm	-200.00 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.53159 GHz	-50.65 dBm	-200.00 dB
3.720 GHz	7.000 GHz	1.000 MHz	3.74272 GHz	-39.16 dBm	-200.00 dB
7.000 GHz	14.000 GHz	1.000 MHz	7.38022 GHz	-53.44 dBm	-200.00 dB
14.000 GHz	22.000 GHz	1.000 MHz	15.88013 GHz	-51.52 dBm	-200.00 dB
22.000 GHz	30.000 GHz	1.000 MHz	29.49228 GHz	-52.97 dBm	-200.00 dB
30.000 GHz	38.000 GHz	1.000 MHz	35.35442 GHz	-50.94 dBm	-200.00 dB

Spectrum

Ref Level 15.00 dBm Offset 27.20 dB RBW 10 kHz
Att 0 dB SWT 100 ms VBW 30 kHz Mode Auto Sweep
SGL Count 100/100

1Rm AvgPwr



CF 3.74272 GHz 691 pts Span 2.04 MHz

Channel Power

Bandwidth 1.00 MHz Power -40.50 dBm Tx Total -40.50 dBm

Ready

Date: 9.NOV.2020 18:08:28

Date: 9.NOV.2020 18:09:20

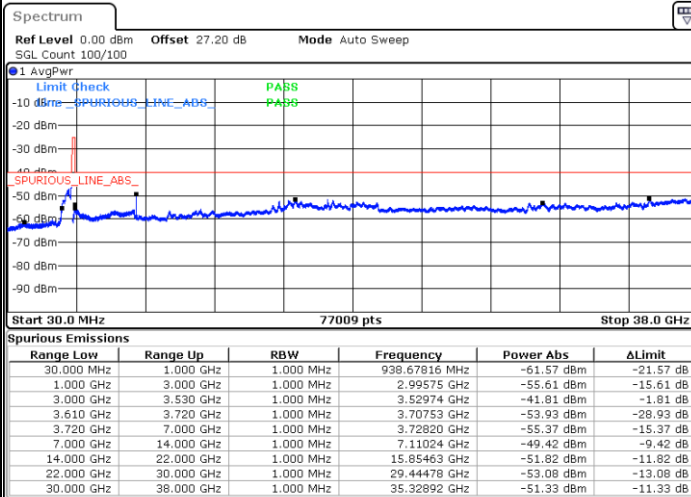


LTE Band 48 / 10MHz

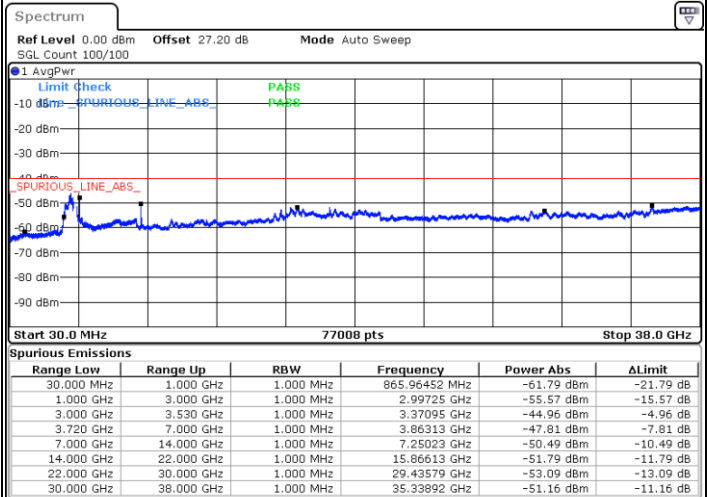
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



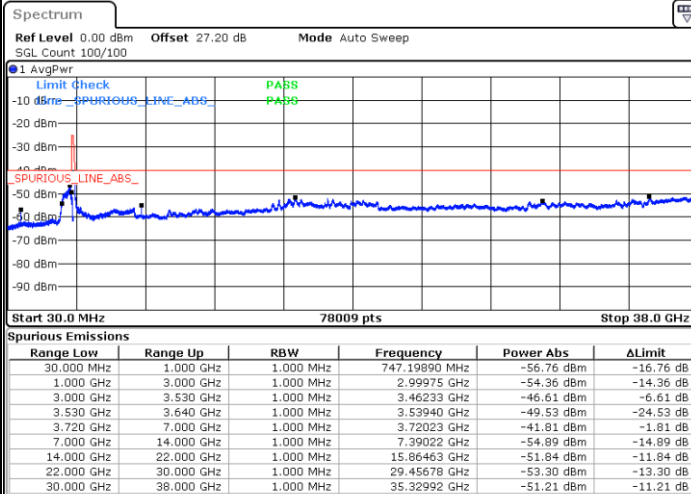
Date: 6.NOV.2020 11:09:07



Date: 6.NOV.2020 10:58:31

Highest Channel / FullIRB

N/A



Date: 9.NOV.2020 10:08:06

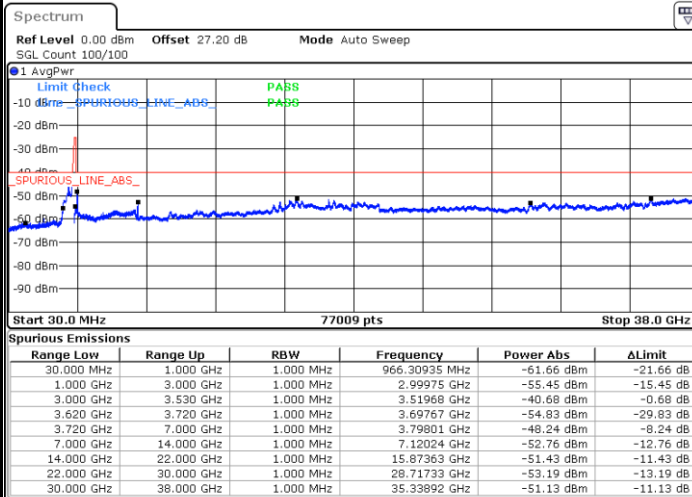


LTE Band 48 / 20MHz

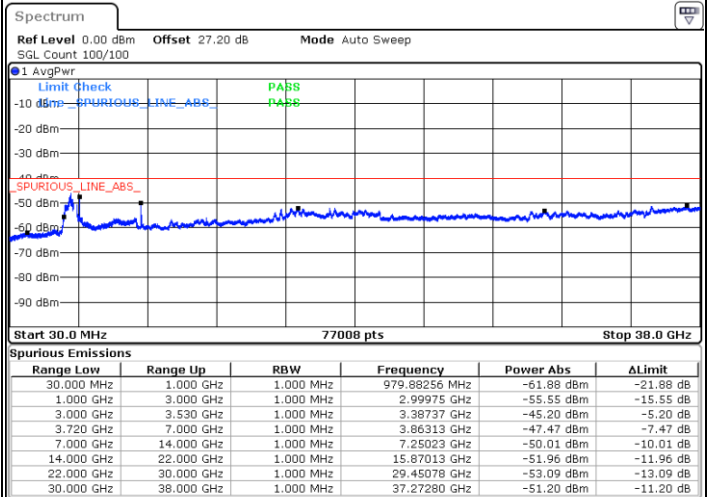
16QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



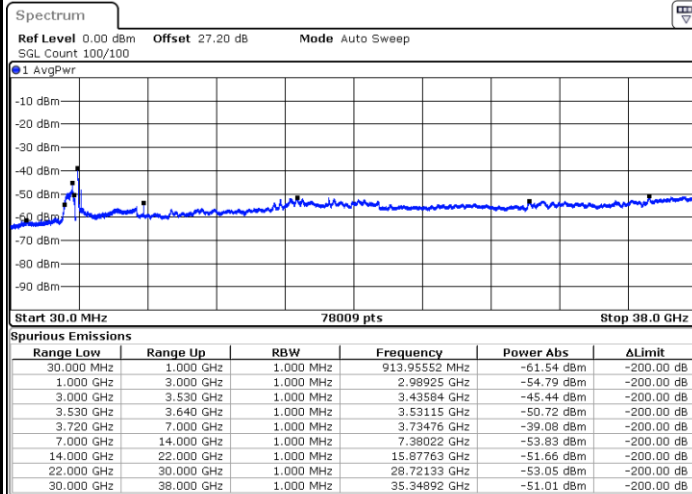
Date: 6.NOV.2020 10:25:59



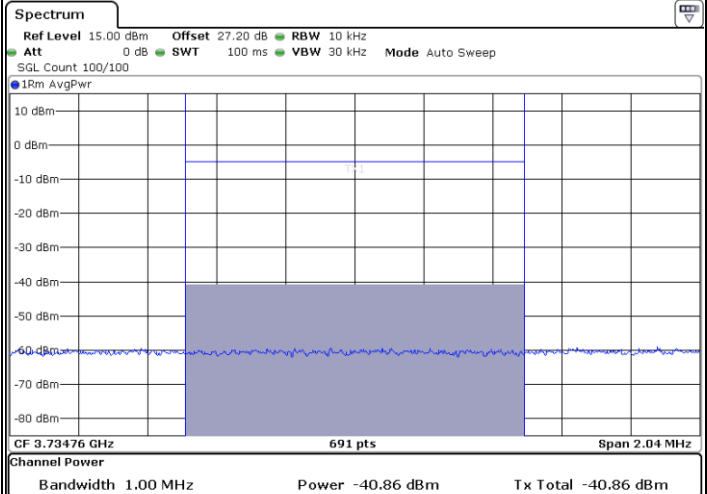
Date: 6.NOV.2020 10:27:26

Highest Channel / FullIRB

Channel Power -40.86dBm<-40dBm(Pass)



Date: 9.NOV.2020 18:12:29



Date: 9.NOV.2020 18:13:23

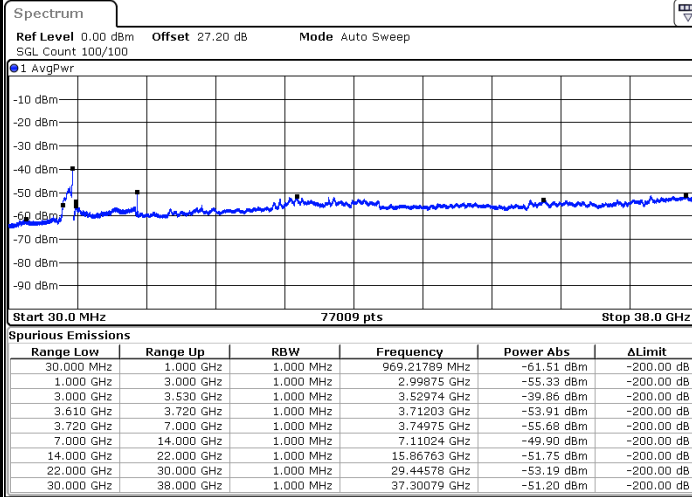


LTE Band 48 / 10MHz

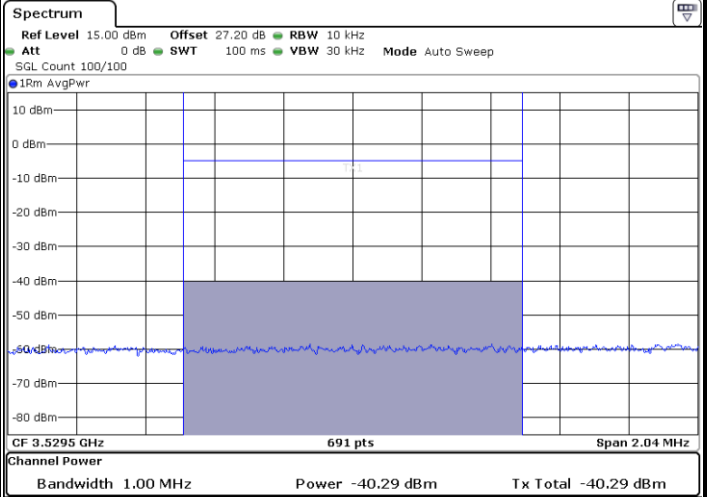
64QAM

Lowest Channel / FullIRB

Channel Power -40.29dBm<-40dBm(Pass)



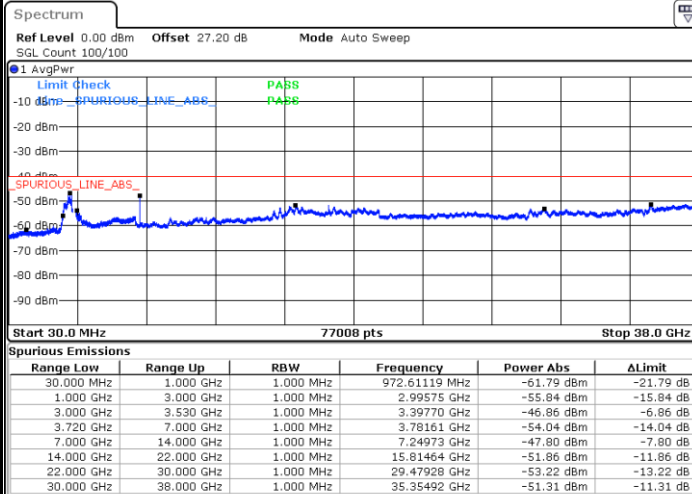
Date: 6.NOV.2020 11:30:20



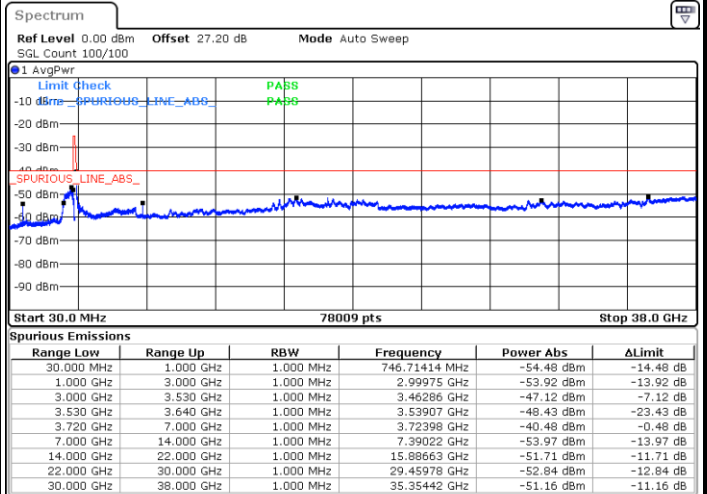
Date: 6.NOV.2020 11:31:34

Middle Channel / FullIRB

Highest Channel / FullIRB



Date: 6.NOV.2020 11:33:26



Date: 9.NOV.2020 18:04:59

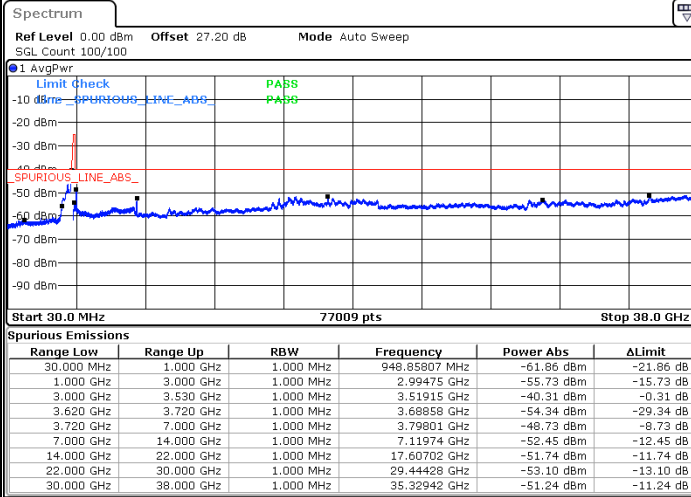


LTE Band 48 / 20MHz

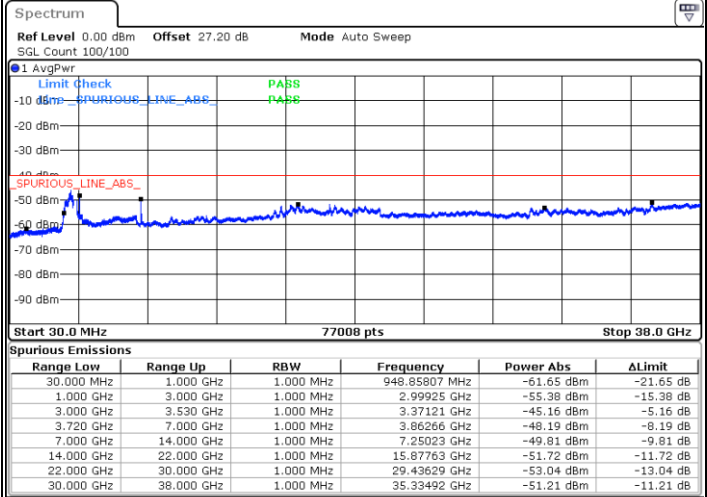
64QAM

Lowest Channel / FullIRB

Middle Channel / FullIRB



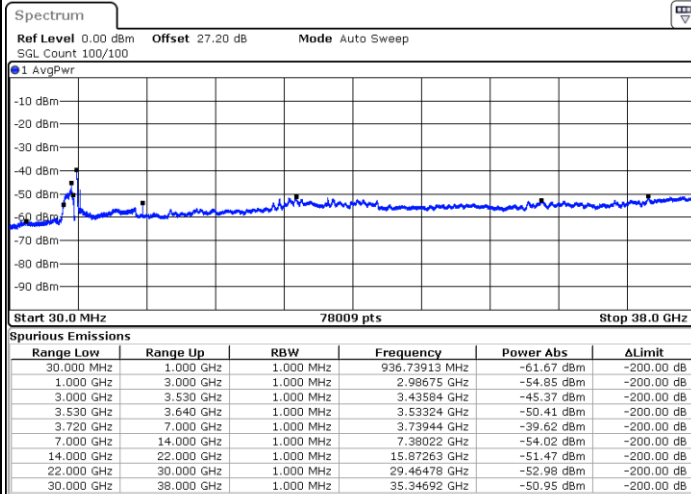
Date: 6.NOV.2020 10:38:42



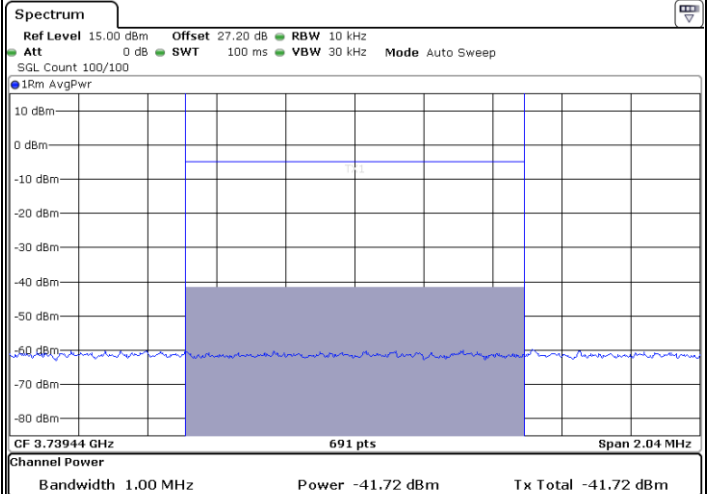
Date: 6.NOV.2020 10:30:13

Highest Channel / FullIRB

Channel Power -41.72dBm<-40dBm(Pass)



Date: 9.NOV.2020 18:21:02



Date: 9.NOV.2020 18:21:44

LTE Band 48 <MIMO 4TX Port 3>

Peak-to-Average Ratio

Mode	LTE Band 48 / 20MHz				Limit: 13dB
Mod.	QPSK		16QAM		
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	N/A	7.77	N/A	7.71	PASS
Middle CH	N/A	7.80	N/A	7.71	
Highest CH	N/A	7.74	N/A	7.71	
Mode	LTE Band 48 / 20MHz				Limit: 13dB
Mod.	64QAM		-		
RB Size	1RB	Full RB	-	-	Result
Lowest CH	N/A	7.71	-	-	PASS
Middle CH	N/A	7.71	-	-	
Highest CH	N/A	7.74	-	-	