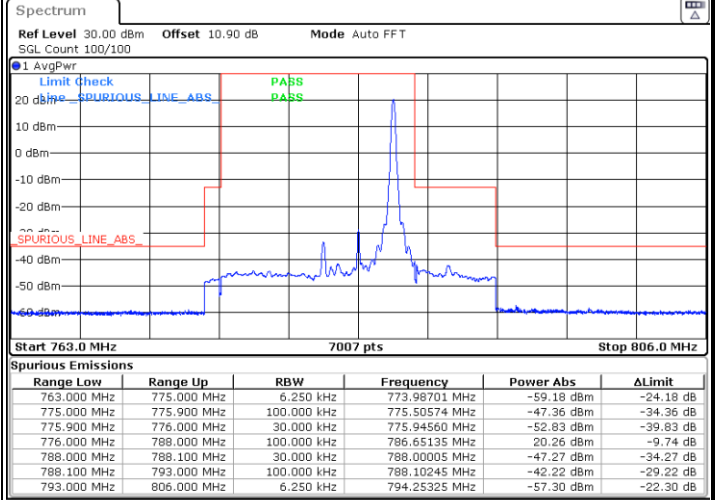
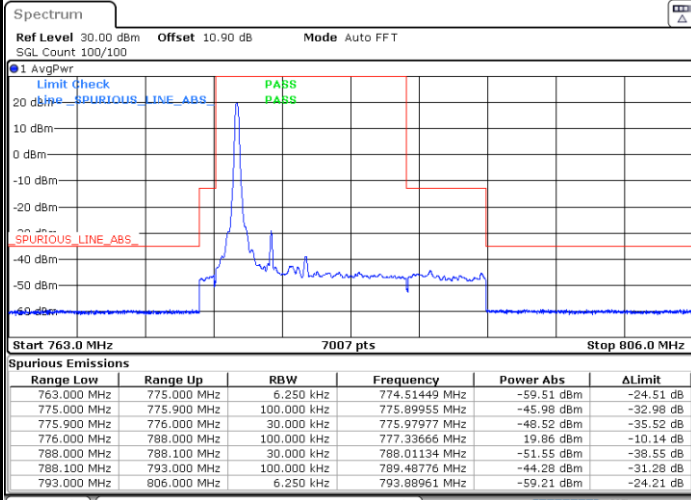




LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

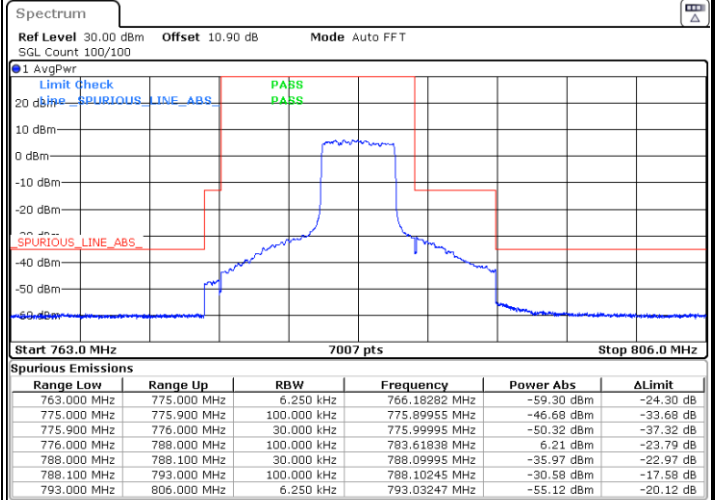
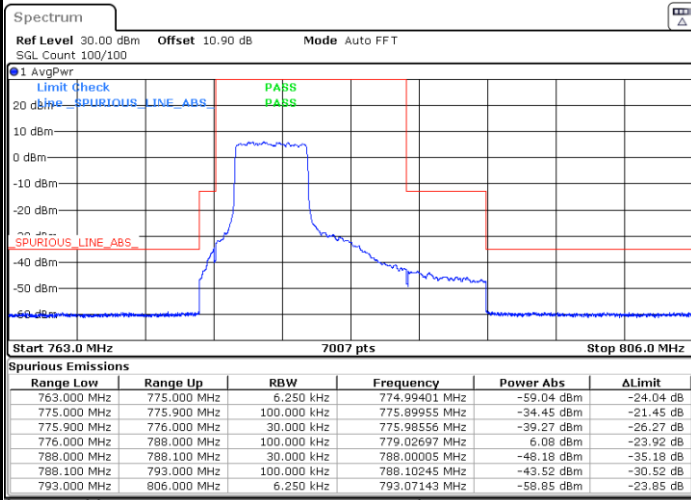


Date: 1.AUG.2023 22:58:44

Date: 1.AUG.2023 23:01:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



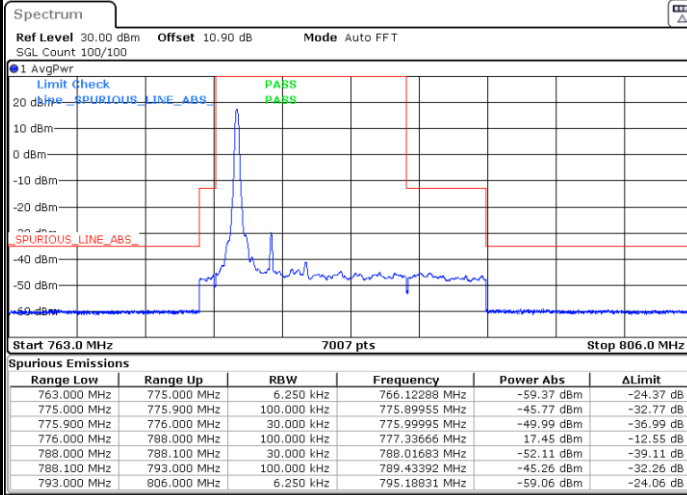
Date: 1.AUG.2023 22:57:44

Date: 1.AUG.2023 23:00:27



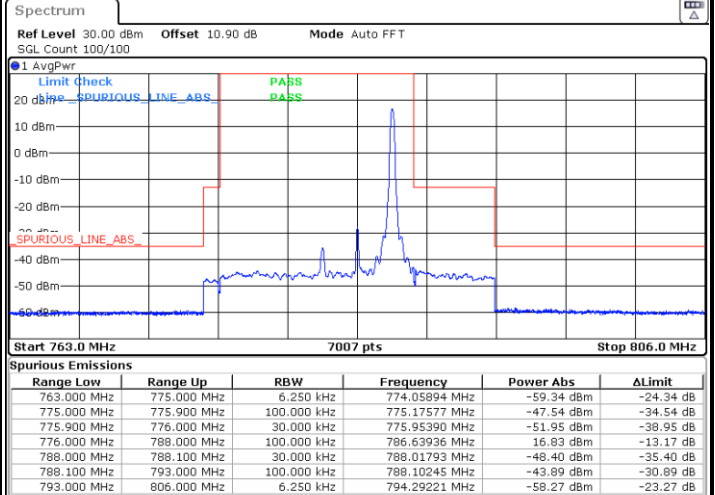
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



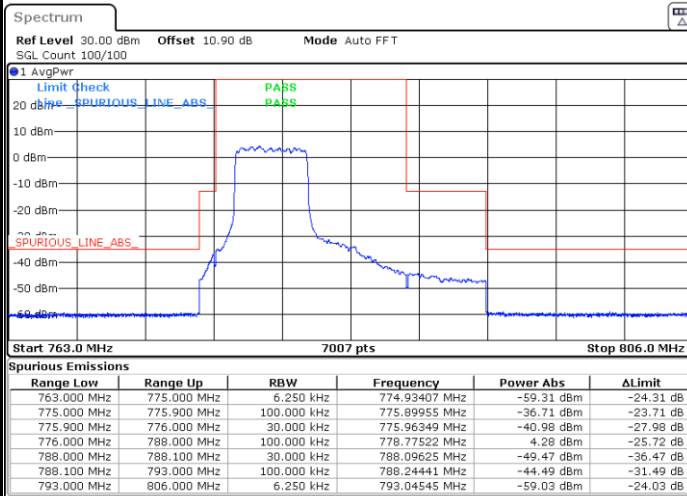
Date: 1.AUG.2023 23:09:47

Highest Band Edge / 1 RB



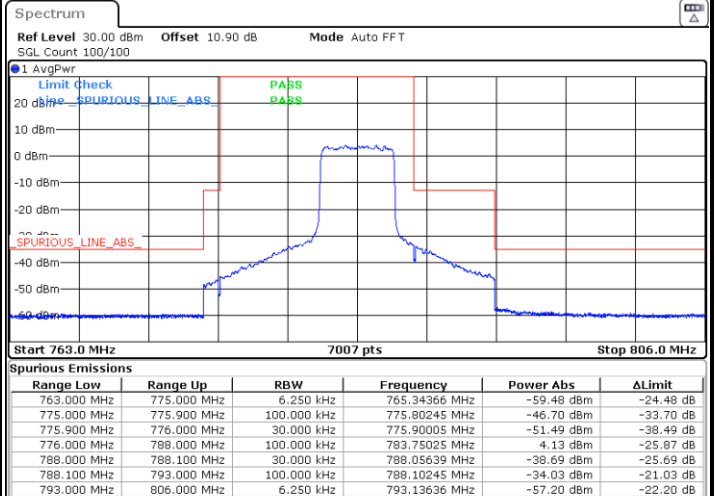
Date: 1.AUG.2023 23:12:30

Lowest Band Edge / Full RB

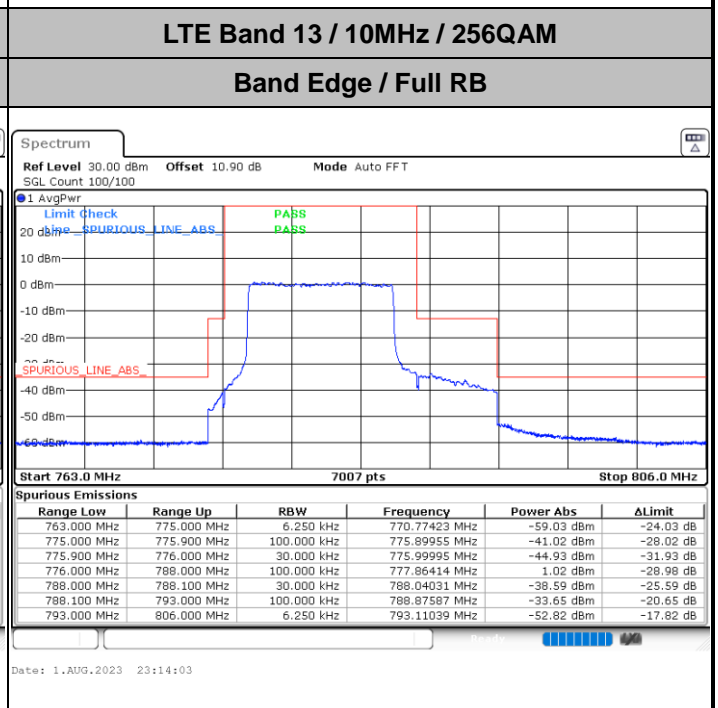
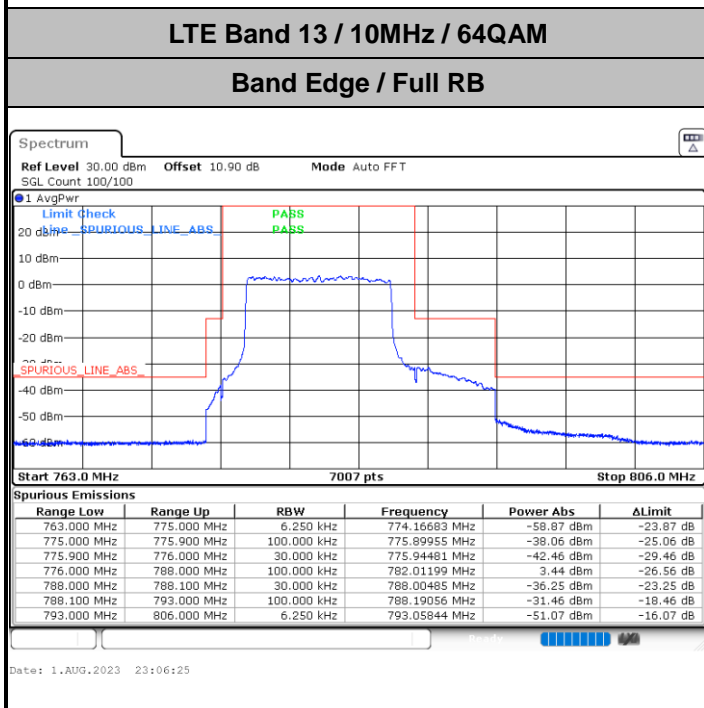
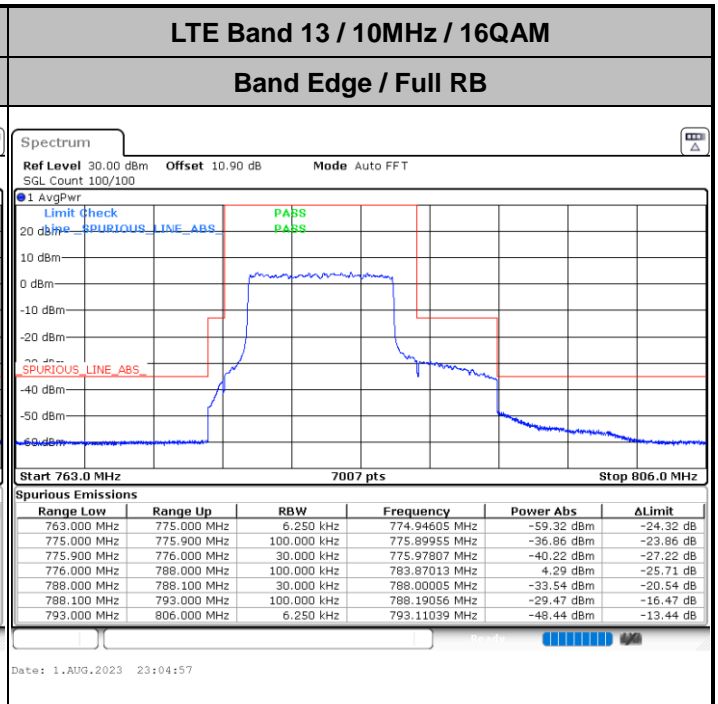
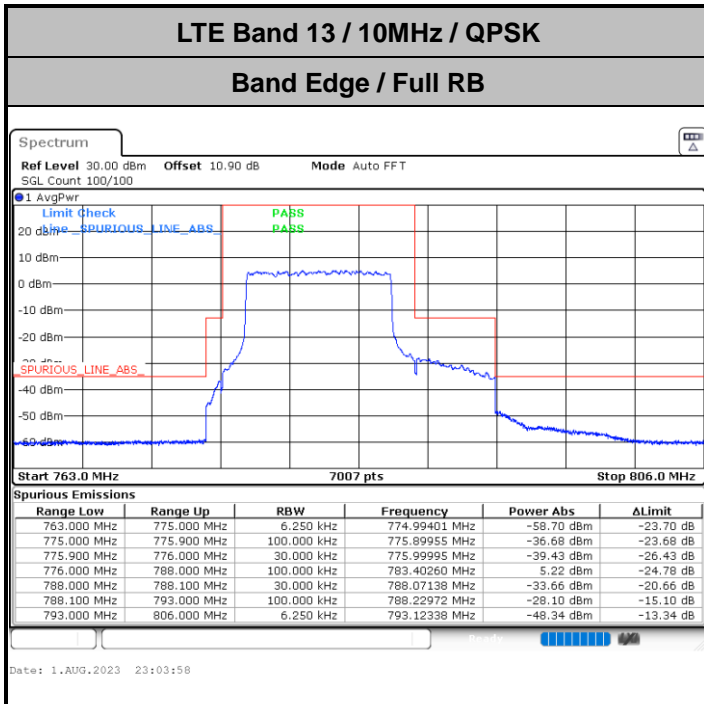


Date: 1.AUG.2023 23:08:47

Highest Band Edge / Full RB

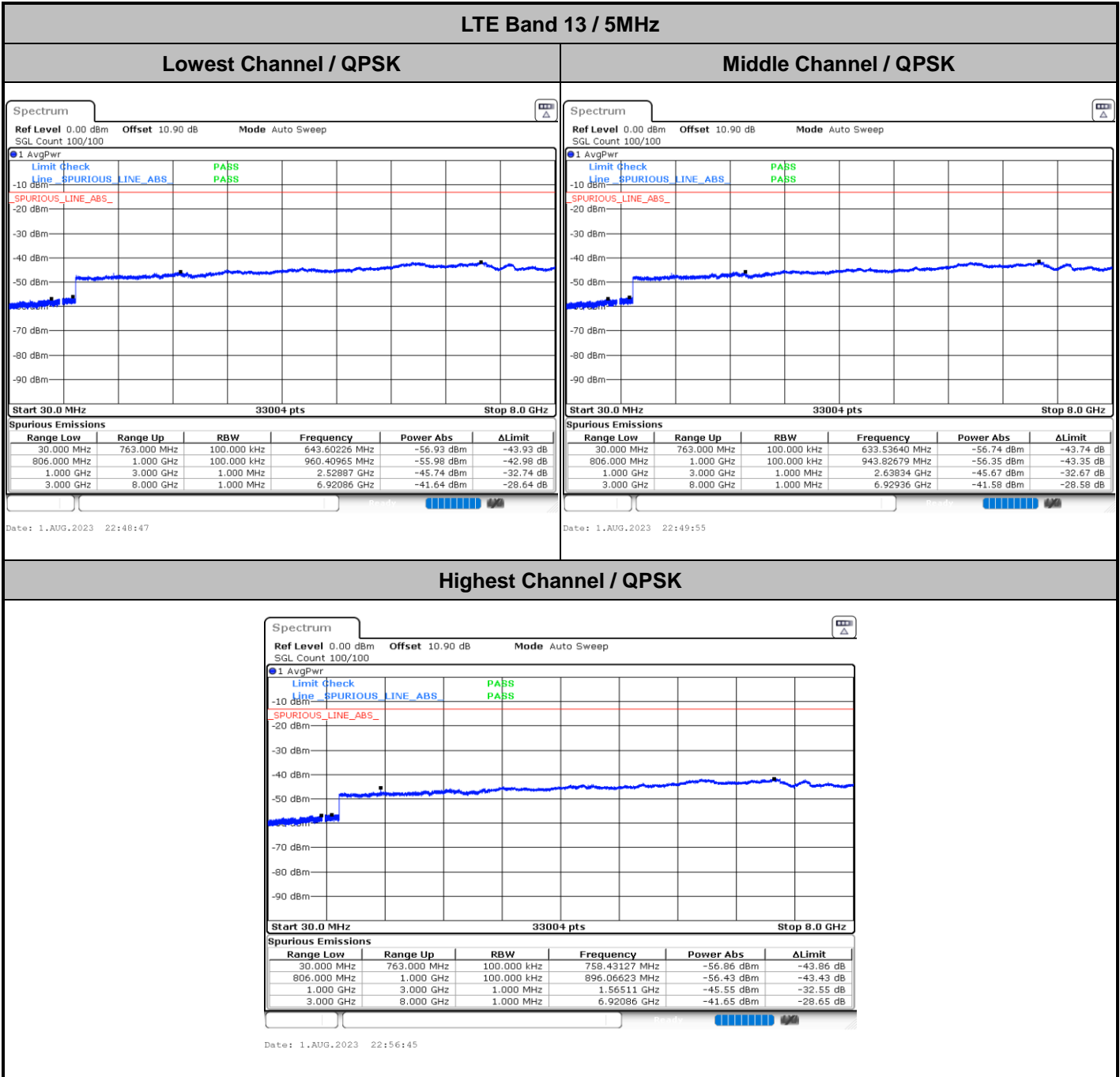


Date: 1.AUG.2023 23:11:30





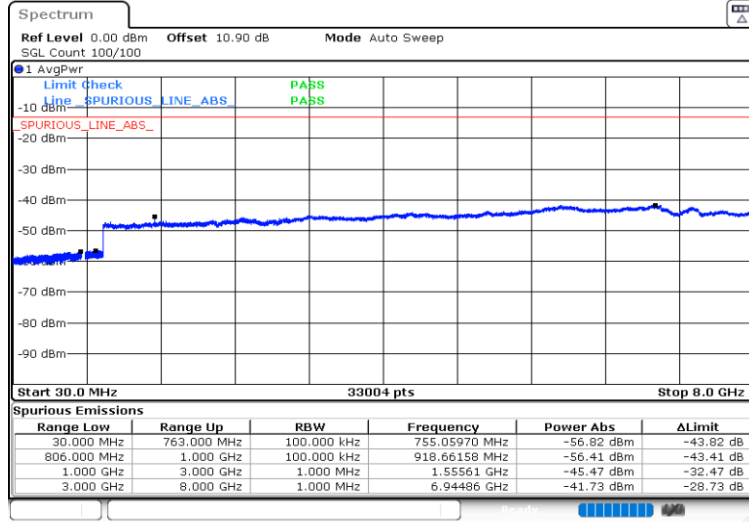
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 1.AUG.2023 23:15:27



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0100	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0077	
-10	Normal Voltage	0.0139	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0101	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 14

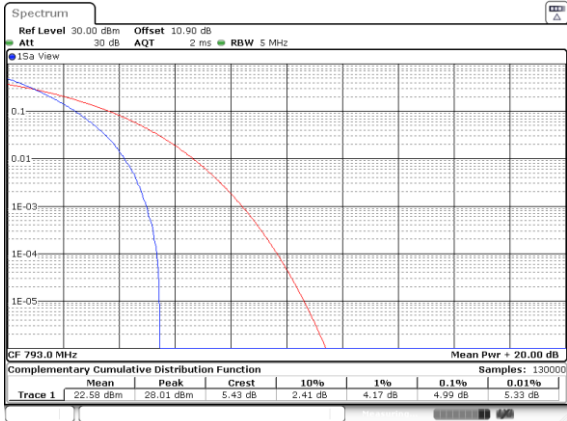
### Peak-to-Average Ratio

Mode	LTE Band 14 / 5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.71	5.83	6.26	PASS
Mode	LTE Band 14 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.72	5.42	5.74	6.17	PASS



LTE Band 14 / 5MHz / QPSK

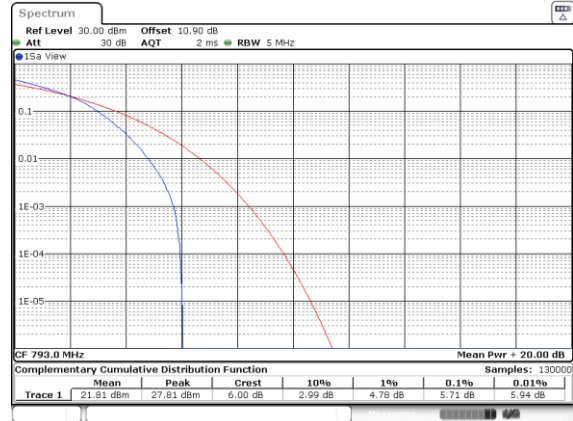
Middle Channel / Full RB



Date: 2.AUG.2023 21:49:04

LTE Band 14 / 5MHz / 16QAM

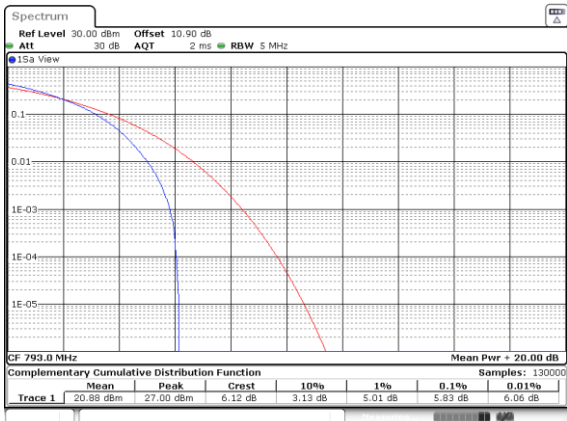
Middle Channel / Full RB



Date: 2.AUG.2023 21:49:35

LTE Band 14 / 5MHz / 64QAM

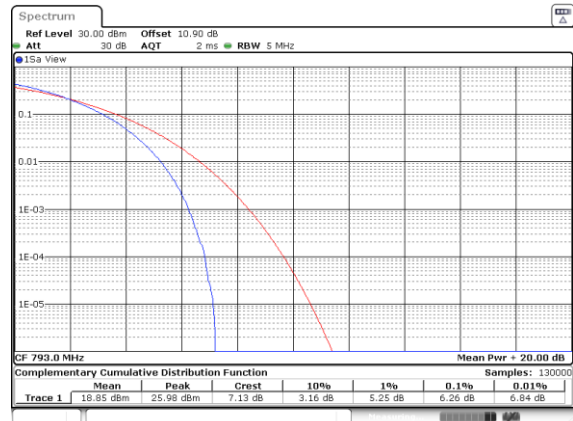
Middle Channel / Full RB



Date: 2.AUG.2023 21:50:06

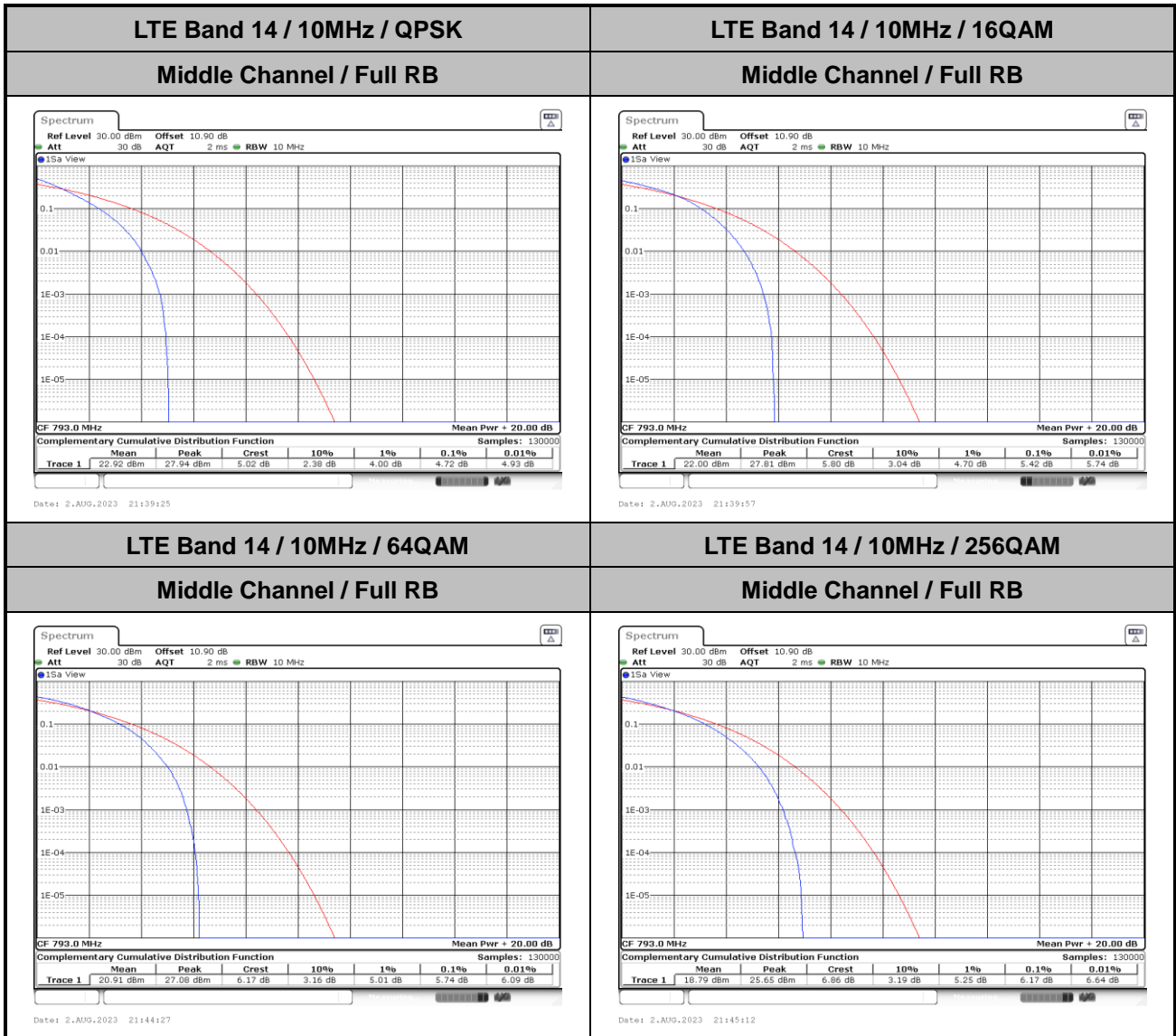
LTE Band 14 / 5MHz / 256QAM

Middle Channel / Full RB



Date: 2.AUG.2023 21:50:37







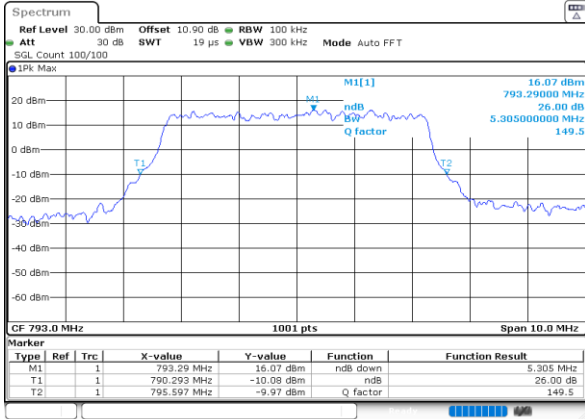
**26dB Bandwidth**

Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.31	5.13	10.01	10.63	-	-	-	-
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.90	5.20	10.23	9.93	-	-	-	-



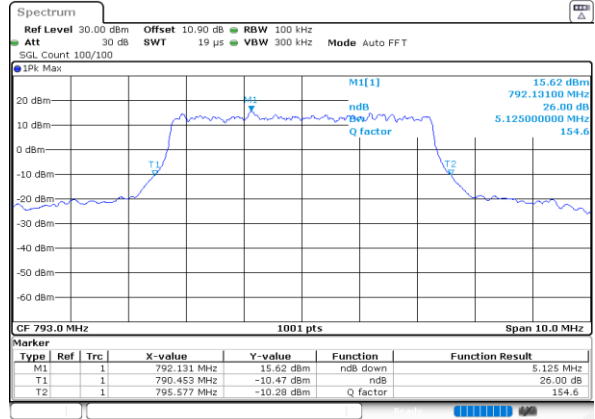
LTE Band 14

Middle Channel / 5MHz / QPSK



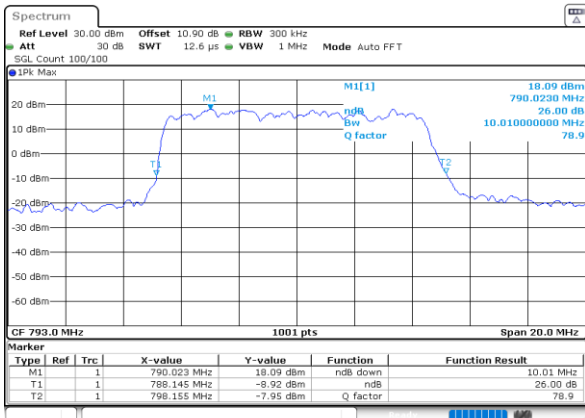
Date: 2.AUG.2023 20:56:55

Middle Channel / 5MHz / 16QAM



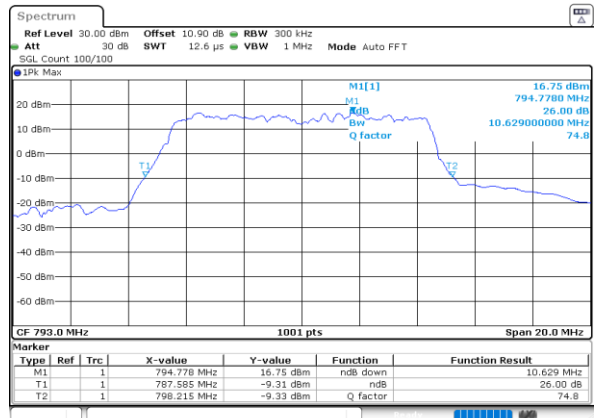
Date: 2.AUG.2023 20:57:23

Middle Channel / 10MHz / QPSK



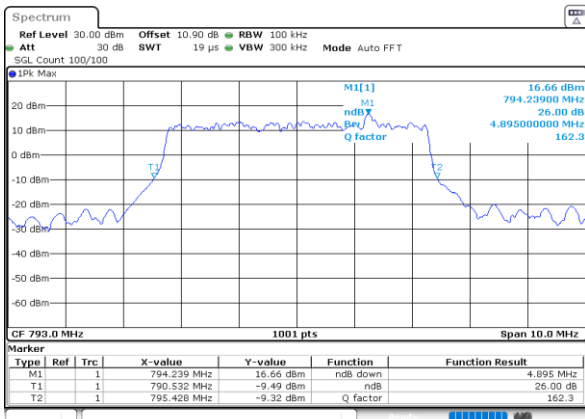
Date: 2.AUG.2023 21:13:10

Middle Channel / 10MHz / 16QAM



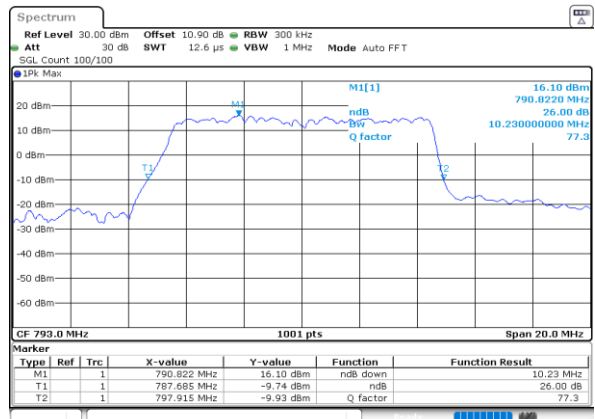
Date: 2.AUG.2023 21:14:26

Middle Channel / 5MHz / 64QAM



Date: 2.AUG.2023 20:58:20

Middle Channel / 10MHz / 64QAM



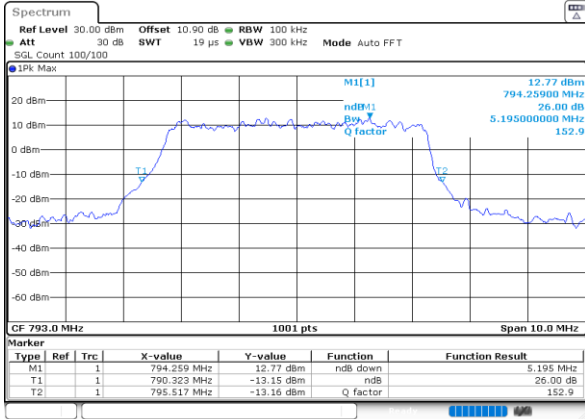
Date: 2.AUG.2023 21:14:42



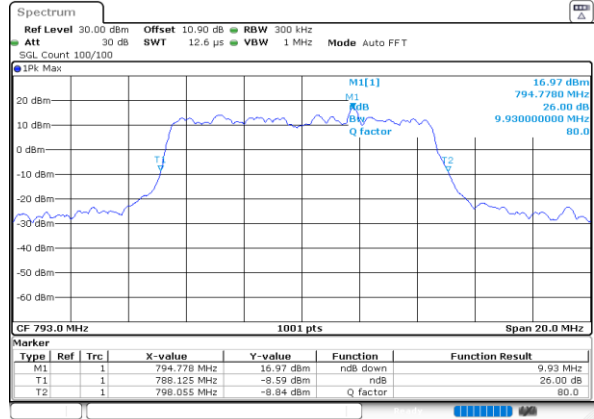
LTE Band 14

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 2.AUG.2023 20:58:49



Date: 2.AUG.2023 21:45:42



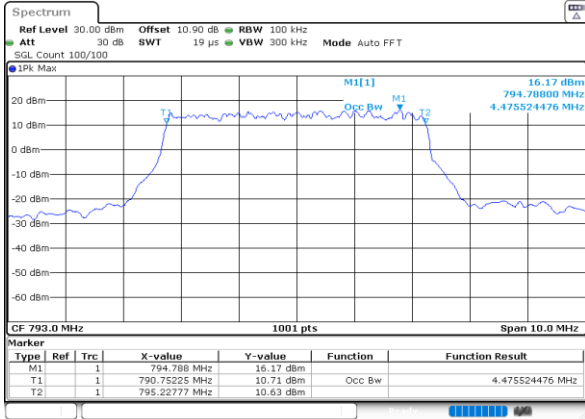
**Occupied Bandwidth**

Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.51	9.09	9.11	-	-	-	-
Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.50	4.53	9.09	9.09	-	-	-	-



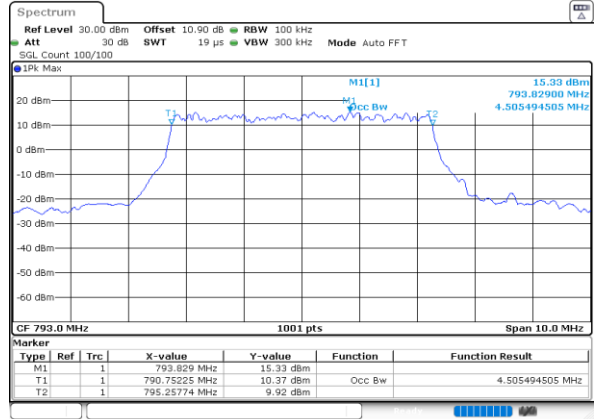
LTE Band 14

Middle Channel / 5MHz / QPSK



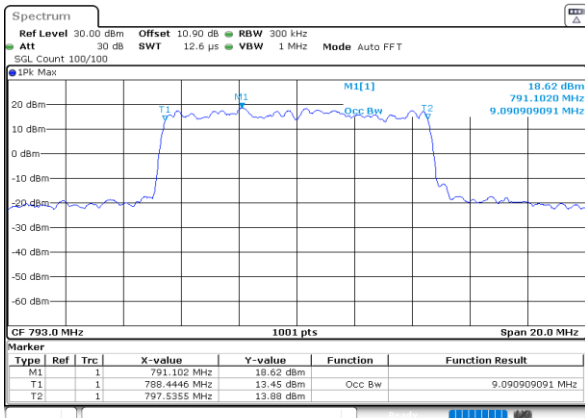
Date: 2.AUG.2023 20:56:41

Middle Channel / 5MHz / 16QAM



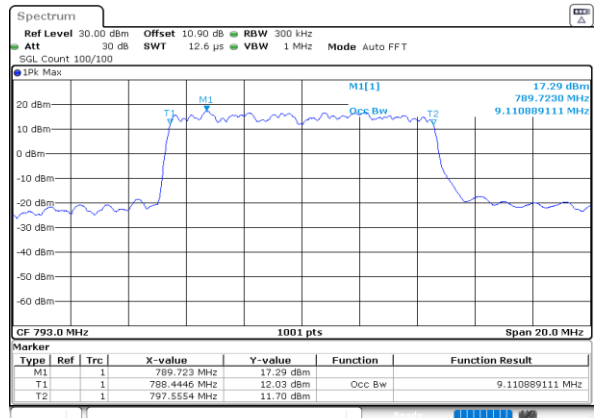
Date: 2.AUG.2023 20:57:37

Middle Channel / 10MHz / QPSK



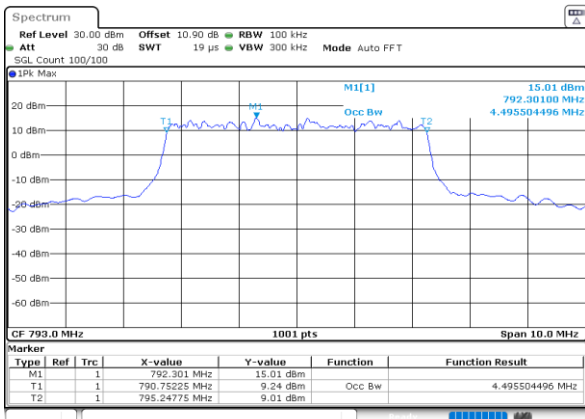
Date: 2.AUG.2023 21:38:56

Middle Channel / 10MHz / 16QAM



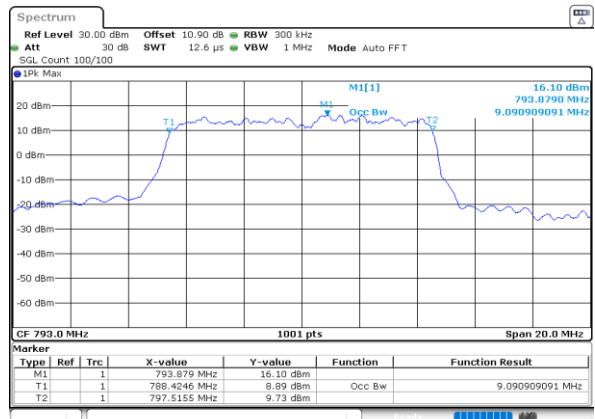
Date: 2.AUG.2023 21:40:12

Middle Channel / 5MHz / 64QAM



Date: 2.AUG.2023 20:58:06

Middle Channel / 10MHz / 64QAM



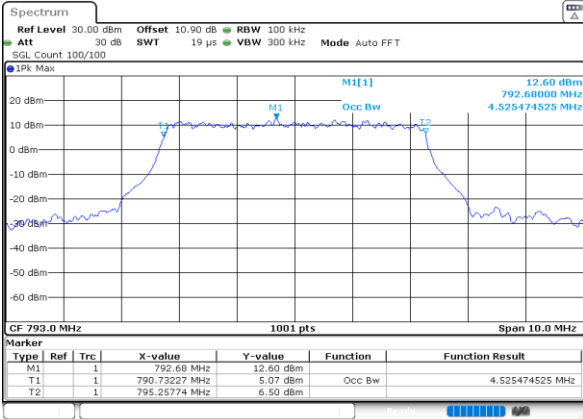
Date: 2.AUG.2023 21:44:12



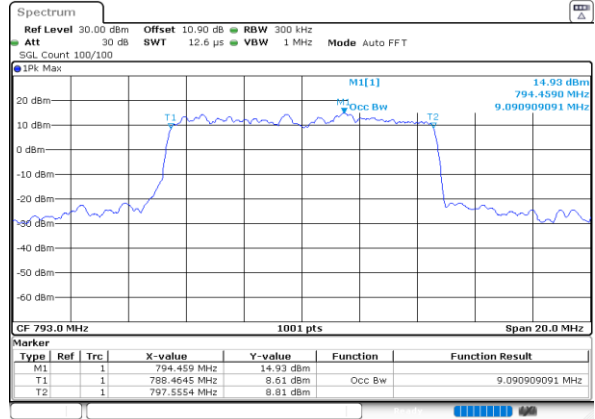
LTE Band 14

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 2.AUG.2023 20:59:03



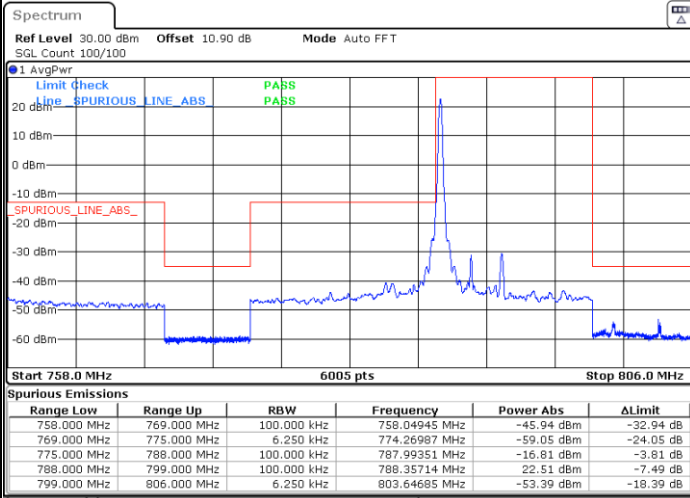
Date: 2.AUG.2023 21:45:27



# Conducted Band Edge

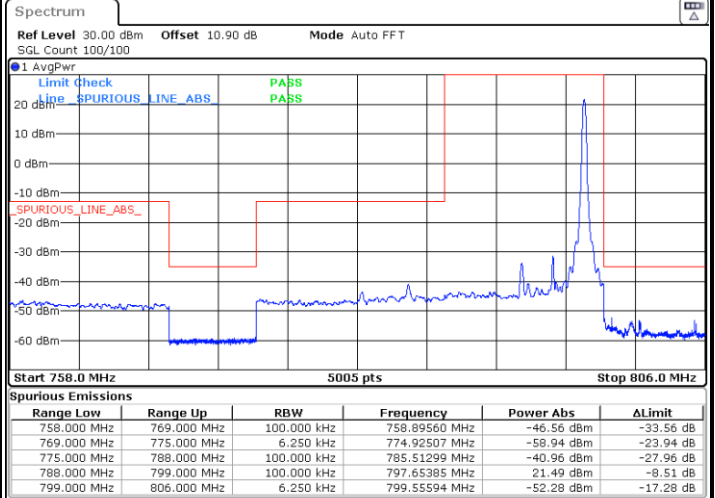
## LTE Band 14 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



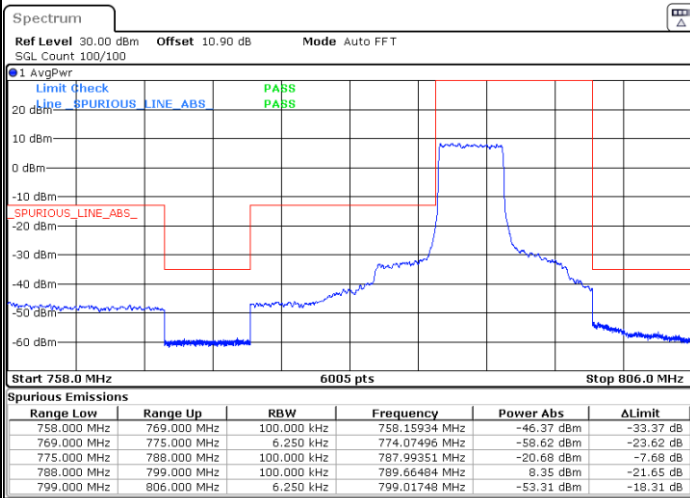
Date: 2.AUG.2023 20:35:25

### Highest Band Edge / 1 RB



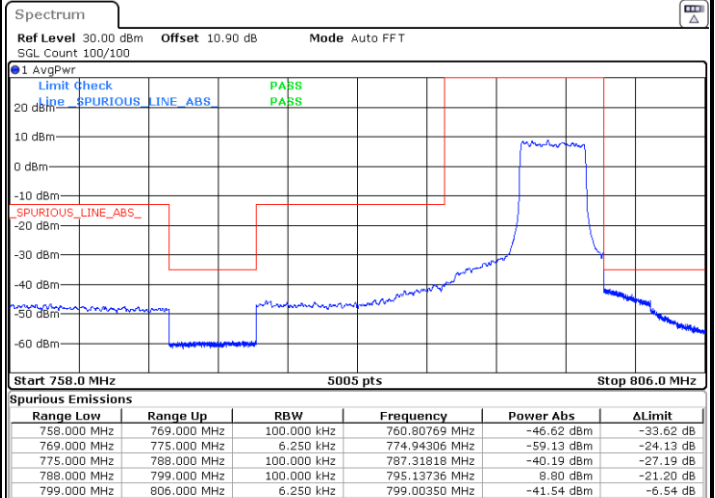
Date: 2.AUG.2023 21:15:42

### Lowest Band Edge / Full RB



Date: 2.AUG.2023 20:34:24

### Highest Band Edge / Full RB



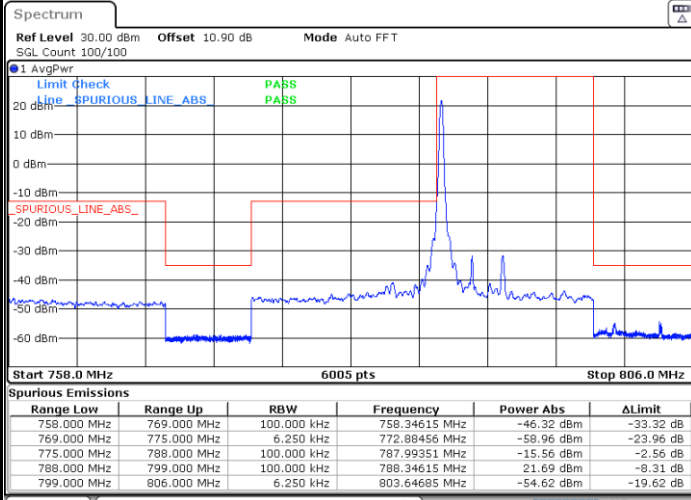
Date: 2.AUG.2023 21:16:43





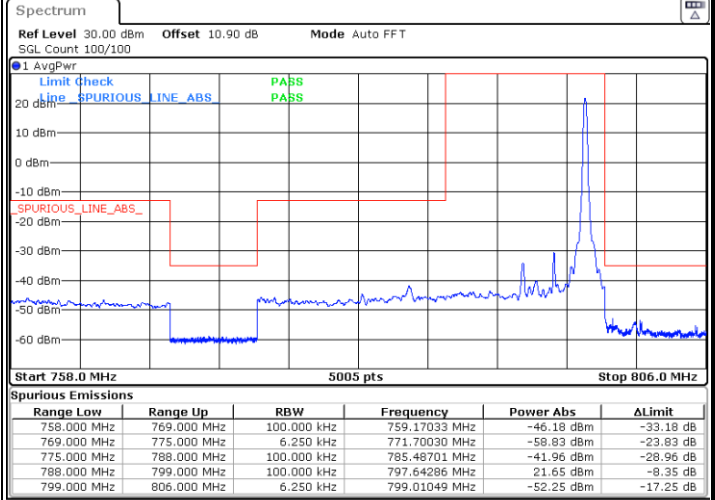
LTE Band 14 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



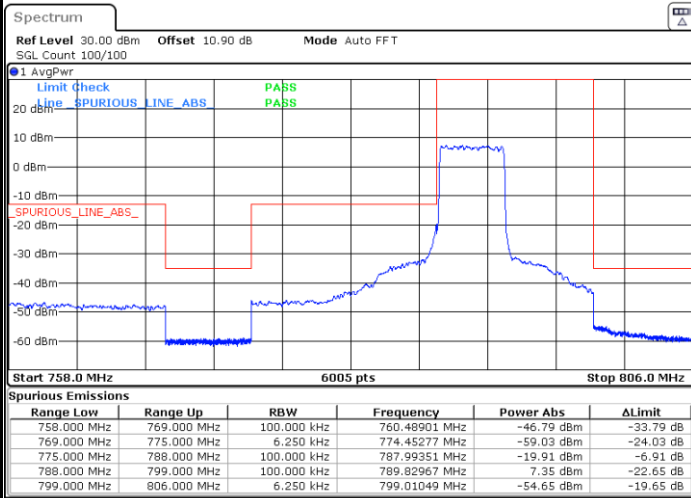
Date: 2.AUG.2023 20:37:19

Highest Band Edge / 1 RB



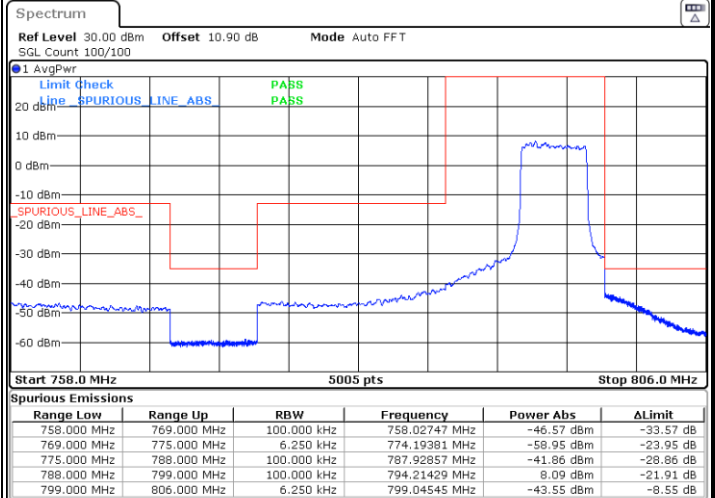
Date: 2.AUG.2023 21:18:44

Lowest Band Edge / Full RB



Date: 2.AUG.2023 20:38:20

Highest Band Edge / Full RB

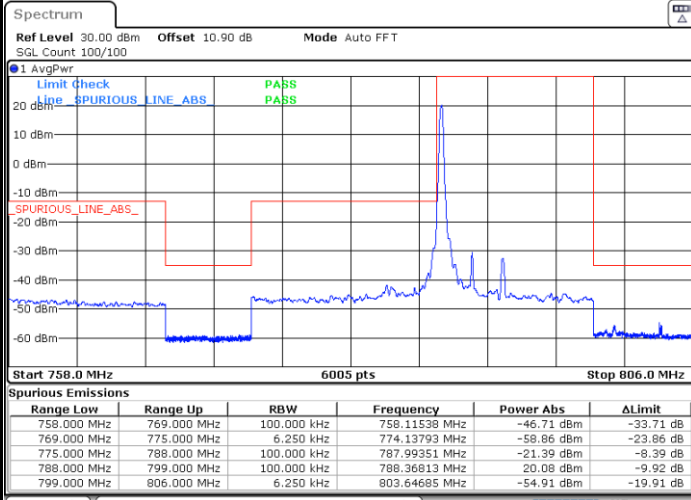


Date: 2.AUG.2023 21:17:43



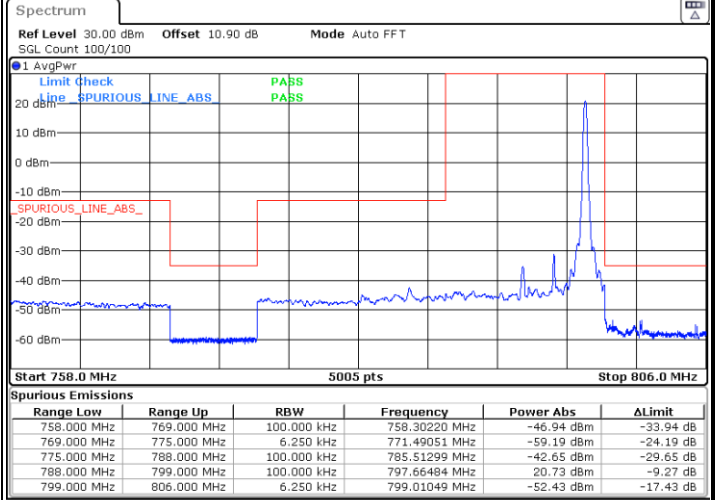
LTE Band 14 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



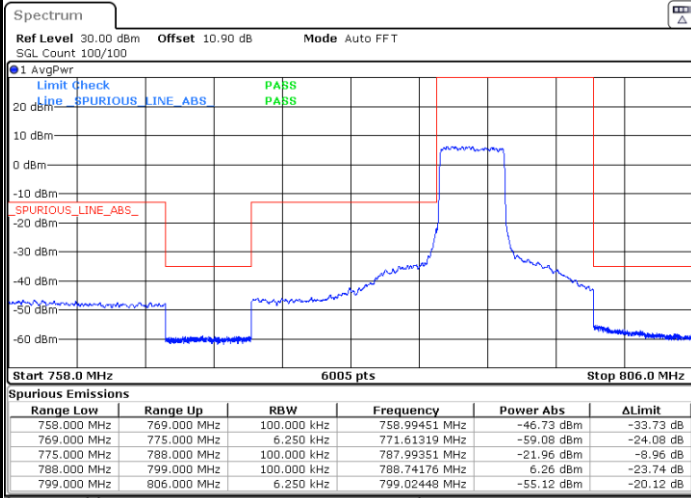
Date: 2.AUG.2023 20:40:21

Highest Band Edge / 1 RB



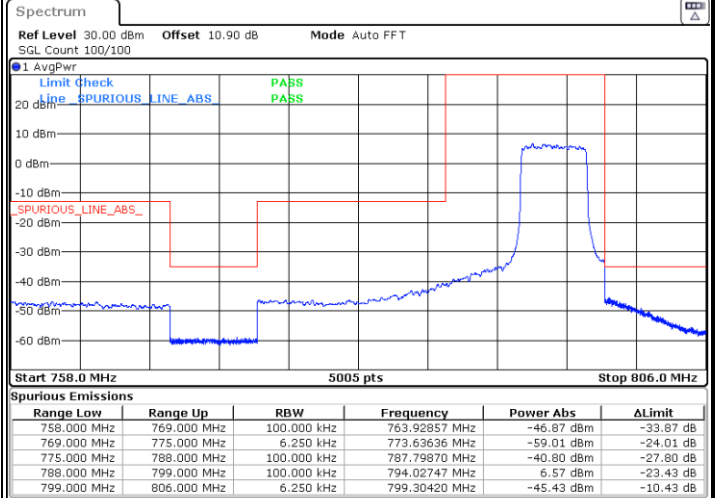
Date: 2.AUG.2023 21:19:45

Lowest Band Edge / Full RB



Date: 2.AUG.2023 20:39:20

Highest Band Edge / Full RB

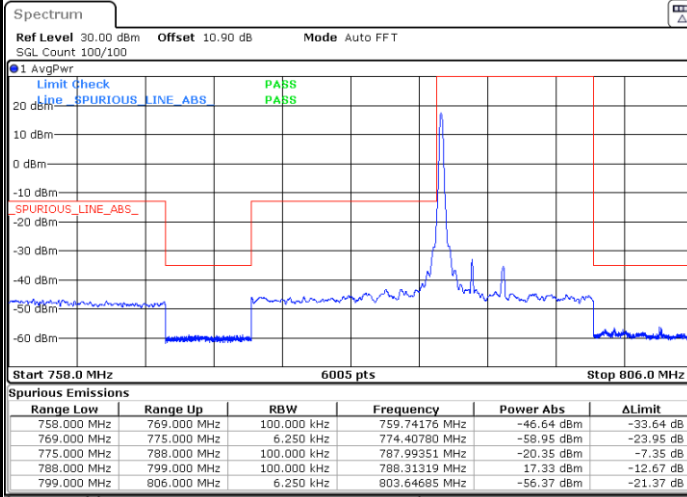


Date: 2.AUG.2023 21:20:46



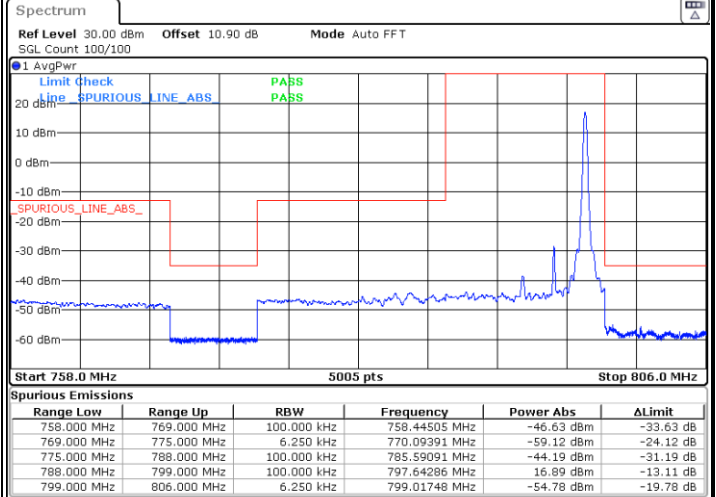
LTE Band 14 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



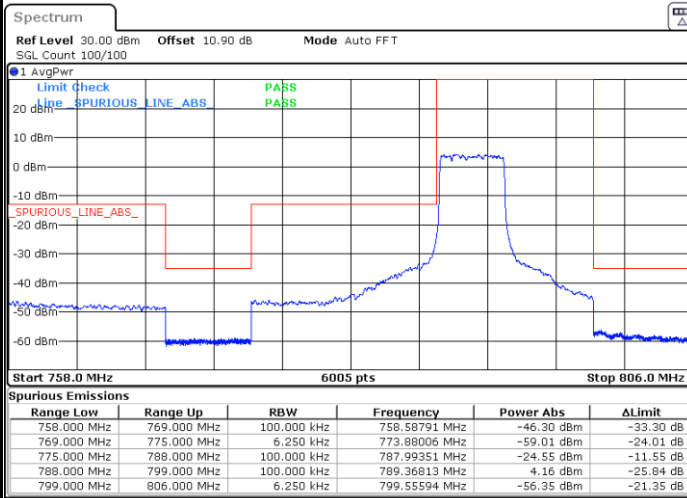
Date: 2.AUG.2023 20:41:22

Highest Band Edge / 1 RB



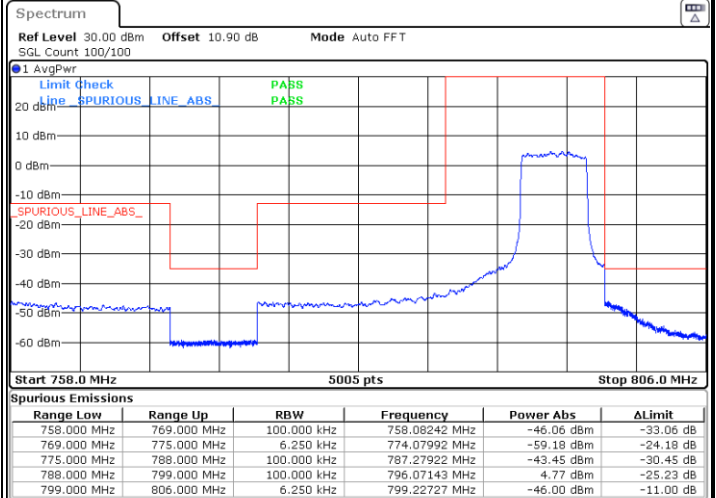
Date: 2.AUG.2023 21:22:48

Lowest Band Edge / Full RB

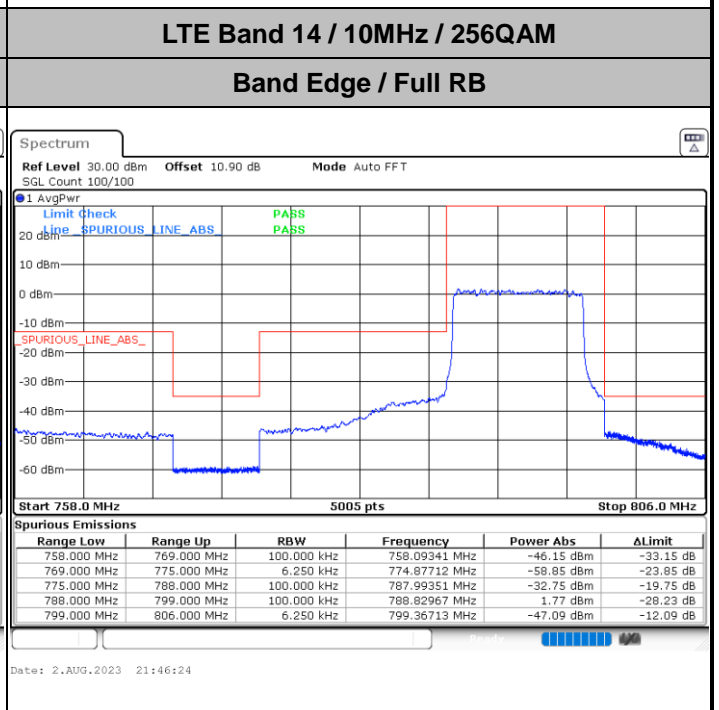
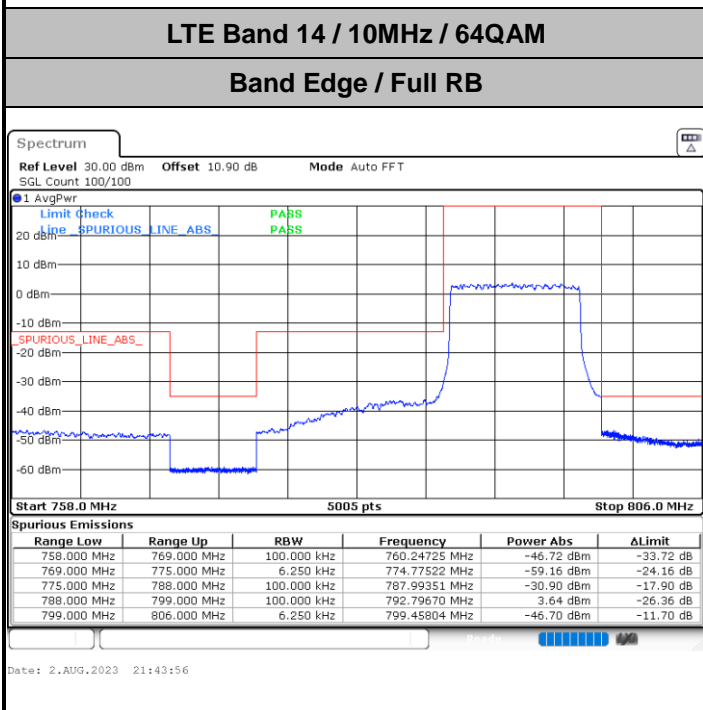
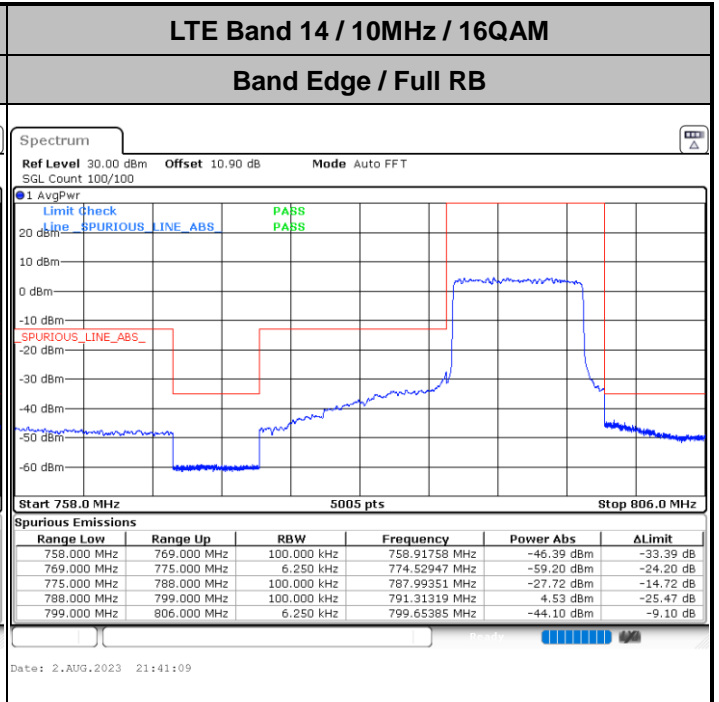
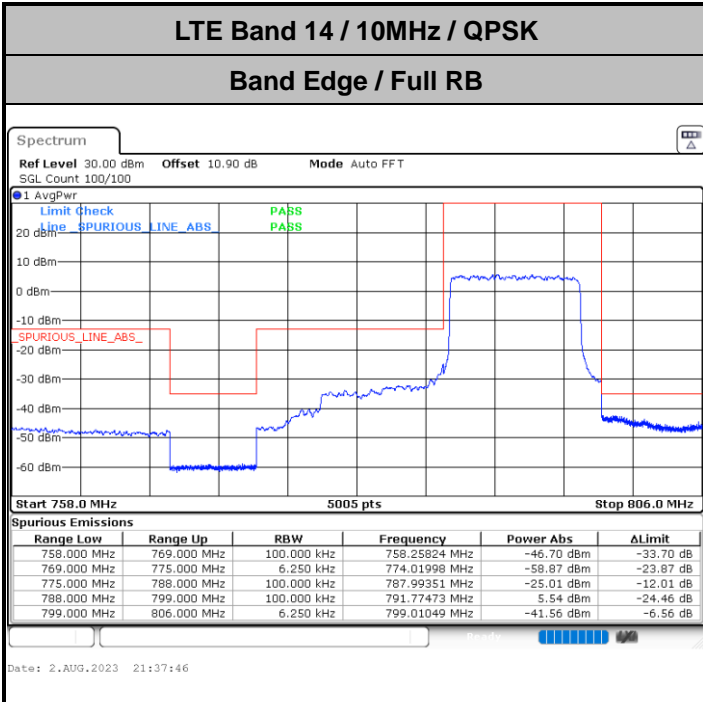


Date: 2.AUG.2023 20:42:23

Highest Band Edge / Full RB



Date: 2.AUG.2023 21:21:47

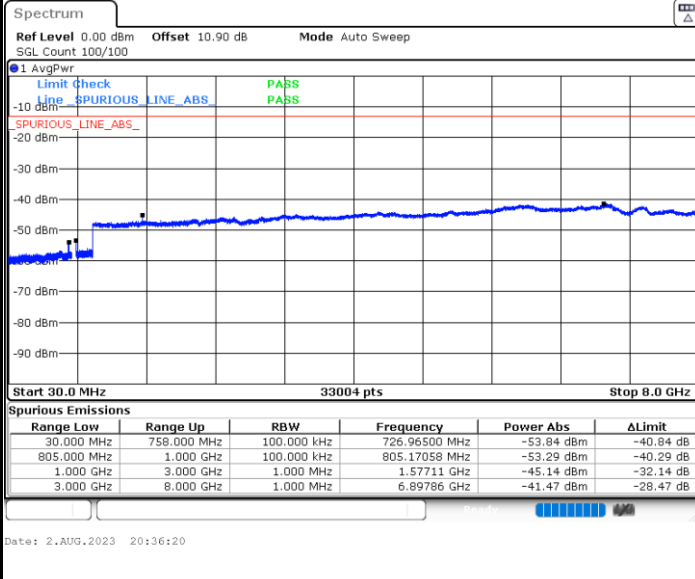




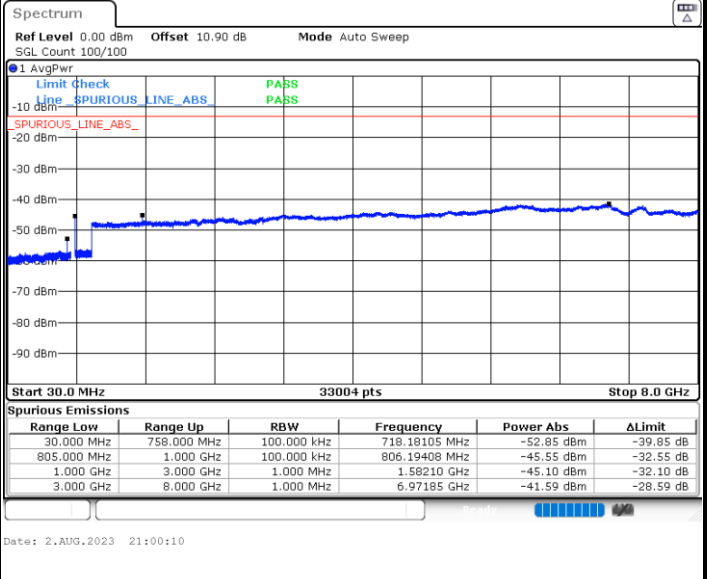
# Conducted Spurious Emission

## LTE Band 14 / 5MHz

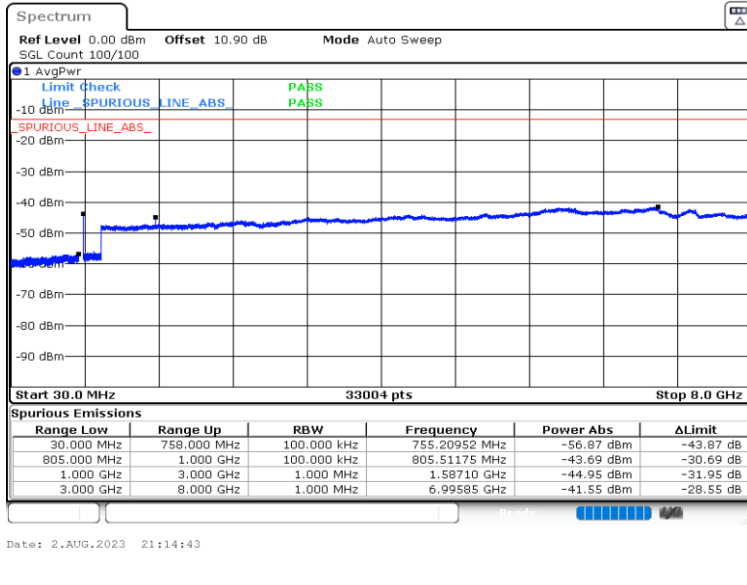
### Lowest Channel / QPSK



### Middle Channel / QPSK



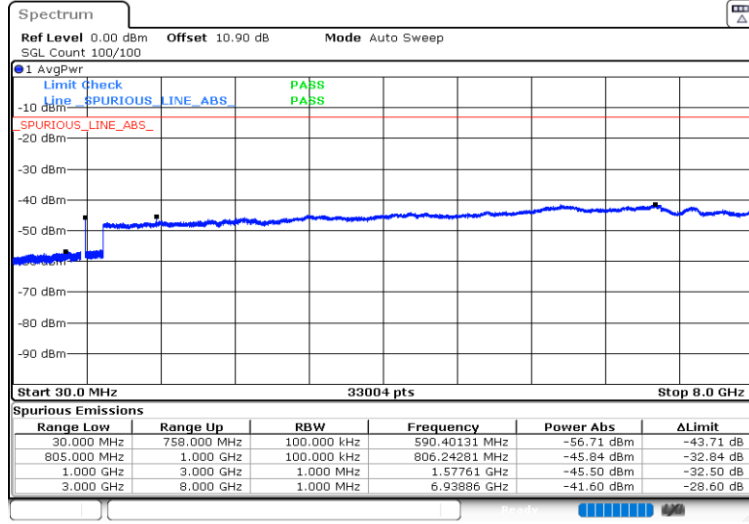
### Highest Channel / QPSK





LTE Band 14 / 10MHz

Middle Channel / QPSK



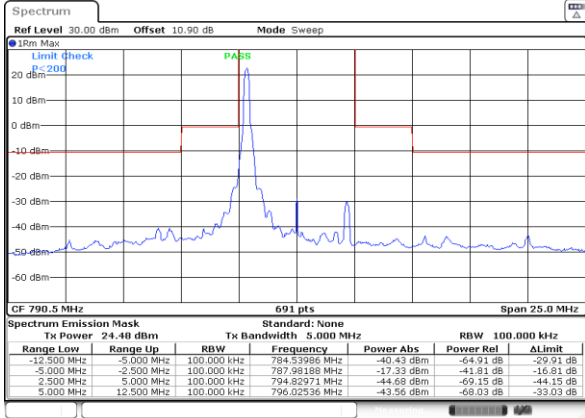
Date: 2.AUG.2023 21:48:28



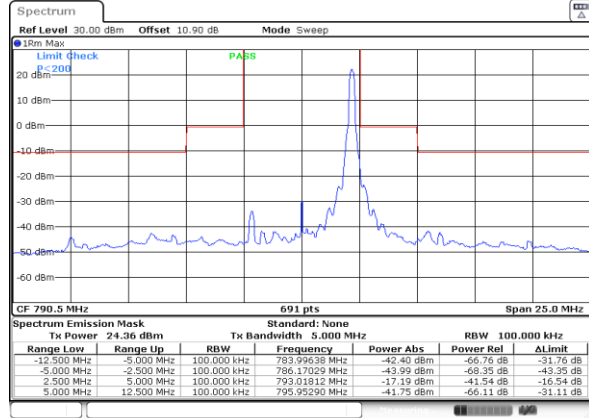
Mask

LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB

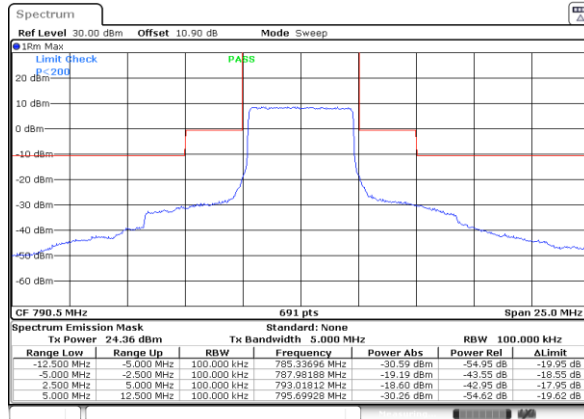


Date: 2.AUG.2023 20:43:31



Date: 2.AUG.2023 20:44:40

Lowest Channel / Full RB

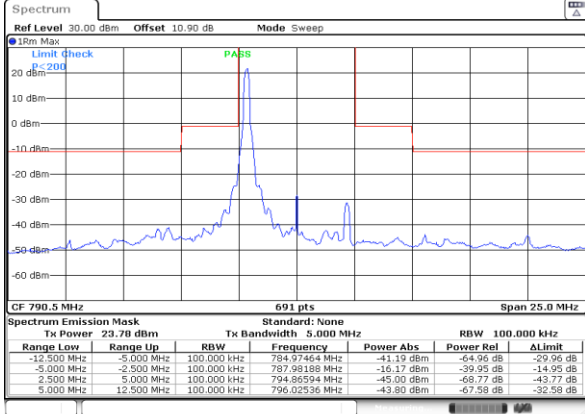


Date: 2.AUG.2023 20:45:49

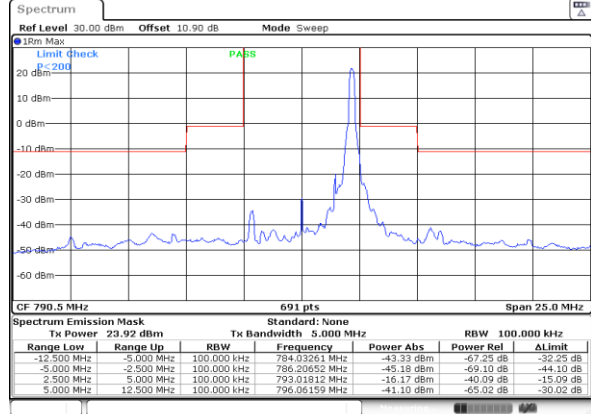


LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB

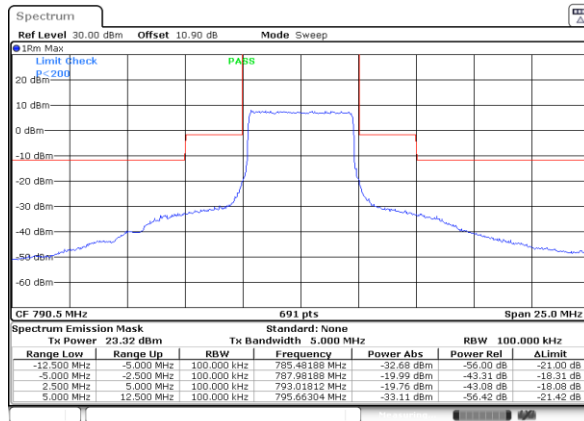


Date: 2.AUG.2023 20:49:16



Date: 2.AUG.2023 20:48:07

Lowest Channel / Full RB



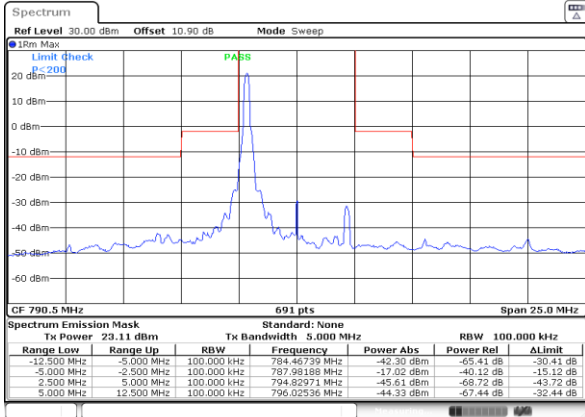
Date: 2.AUG.2023 20:46:58



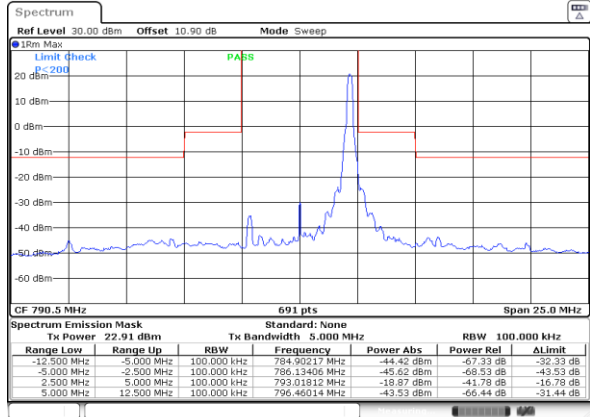


LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB

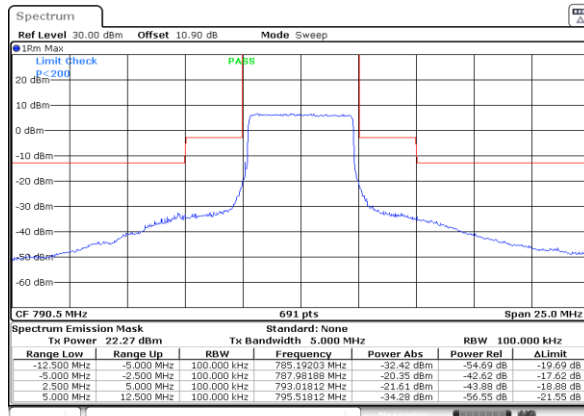


Date: 2.AUG.2023 23:59:51



Date: 3.AUG.2023 00:06:59

Lowest Channel / Full RB

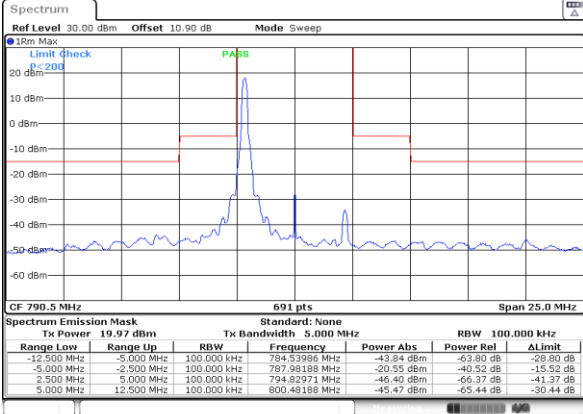


Date: 2.AUG.2023 20:52:42

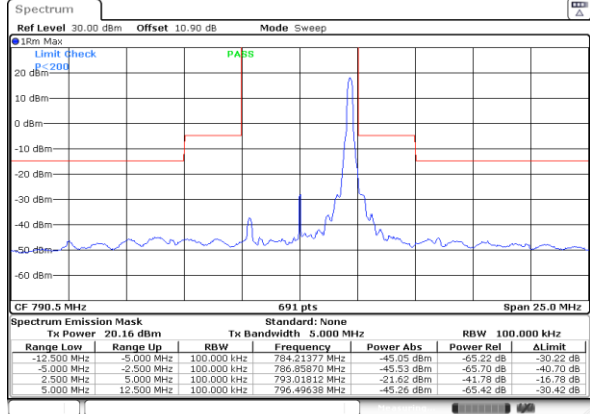


LTE Band 14 / 5MHz / 256QAM

Lowest Channel / 1RB

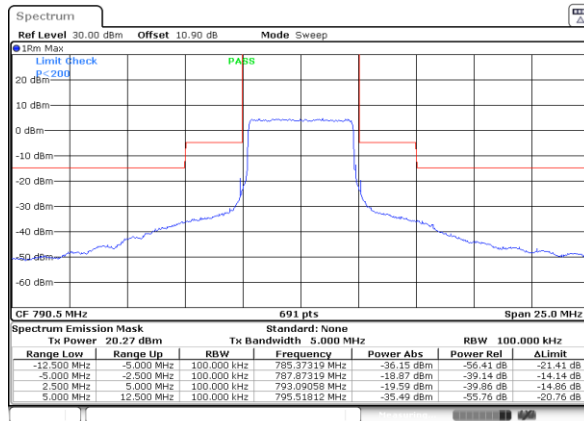


Date: 3.AUG.2023 00:03:54



Date: 3.AUG.2023 00:11:16

Lowest Channel / Full RB

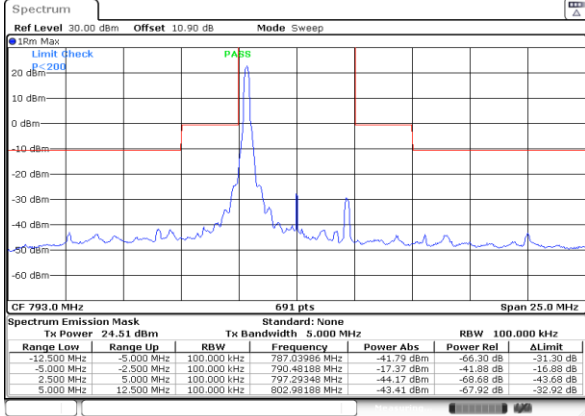


Date: 2.AUG.2023 20:53:52

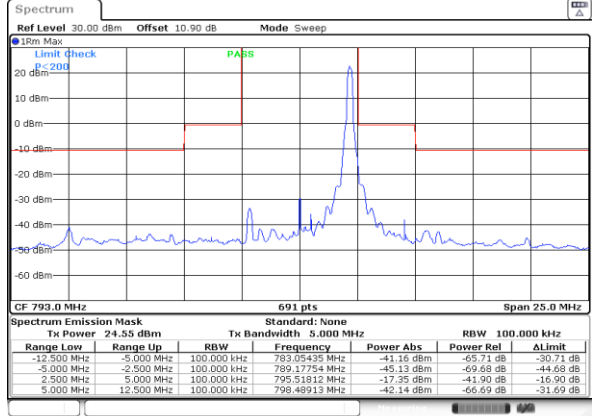


LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB

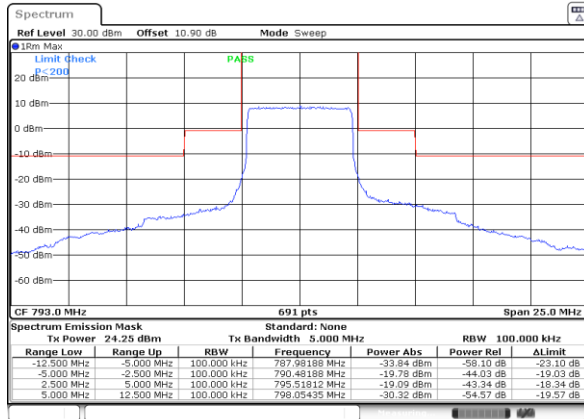


Date: 2.AUG.2023 21:01:03



Date: 2.AUG.2023 21:02:11

Middle Channel / Full RB

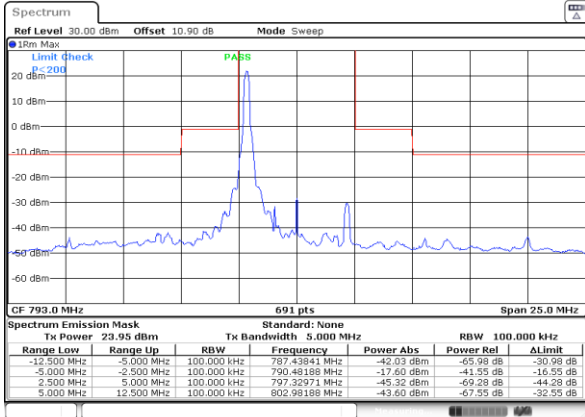


Date: 2.AUG.2023 21:03:20

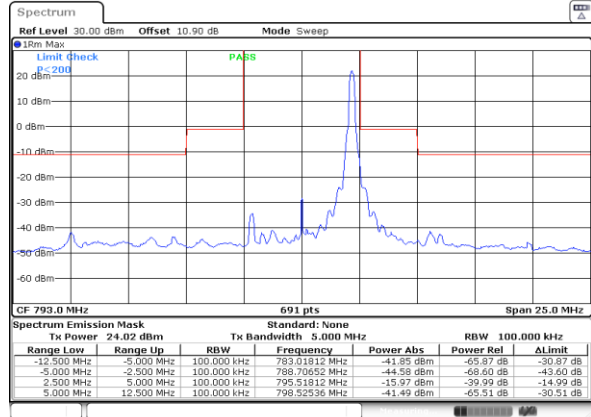


LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB

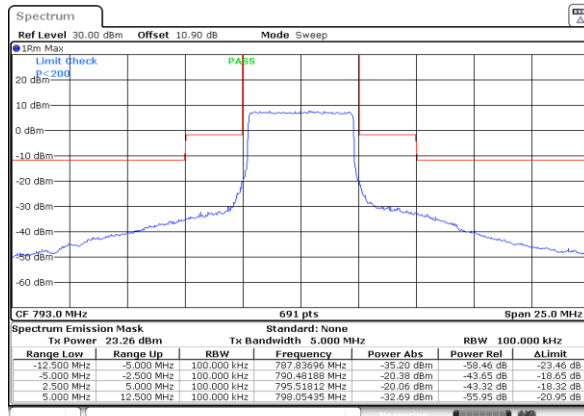


Date: 2.AUG.2023 21:06:44



Date: 3.AUG.2023 00:18:05

Middle Channel / Full RB

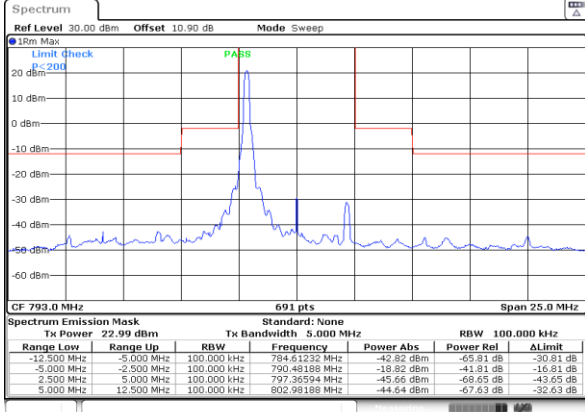


Date: 2.AUG.2023 21:04:28

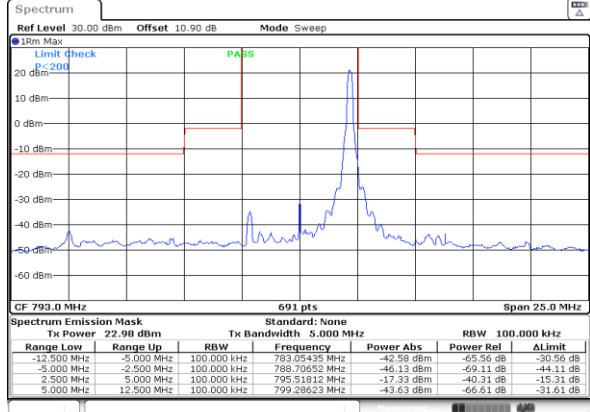


LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB

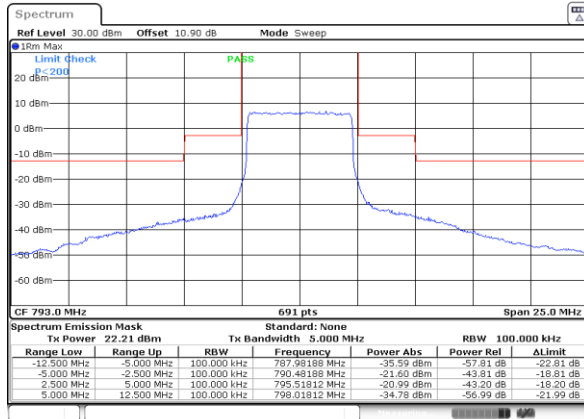


Date: 2.AUG.2023 21:07:53



Date: 2.AUG.2023 21:09:01

Middle Channel / Full RB

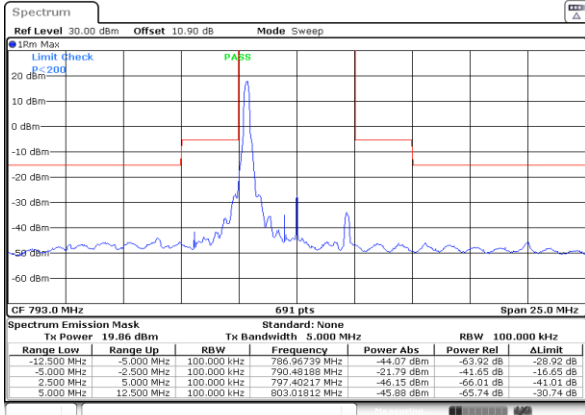


Date: 2.AUG.2023 21:10:09

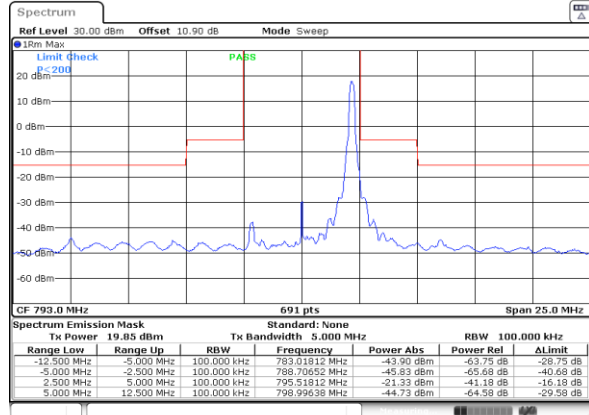


LTE Band 14 / 5MHz / 256QAM

Middle Channel / 1RB

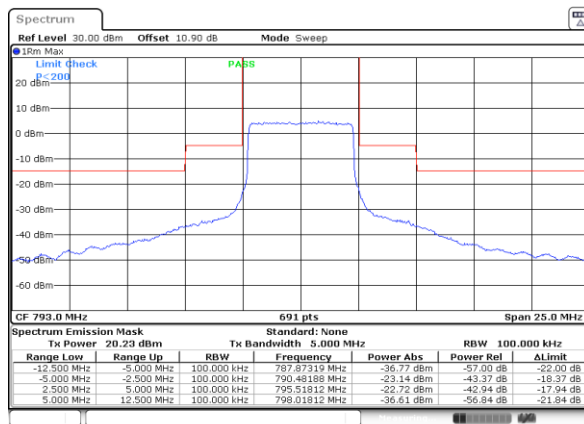


Date: 2.AUG.2023 21:13:34



Date: 3.AUG.2023 00:19:45

Middle Channel / Full RB

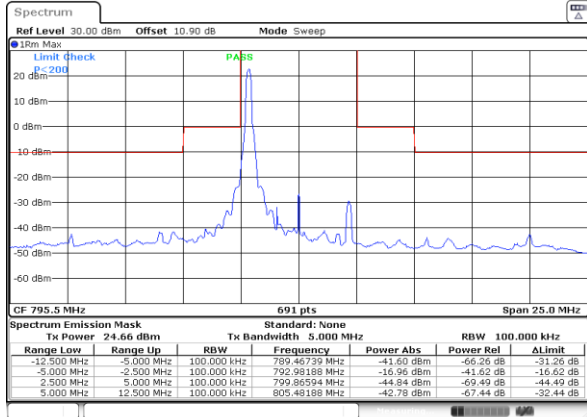


Date: 2.AUG.2023 21:11:18

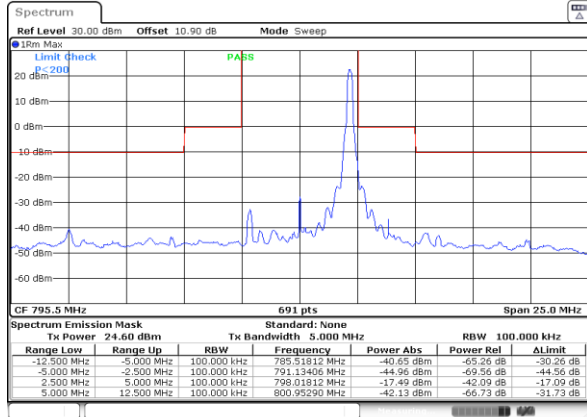


LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB

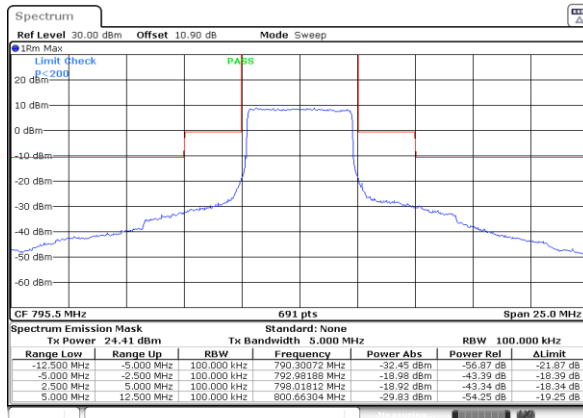


Date: 2.AUG.2023 23:11:11



Date: 2.AUG.2023 23:32:10

Highest Channel / Full RB

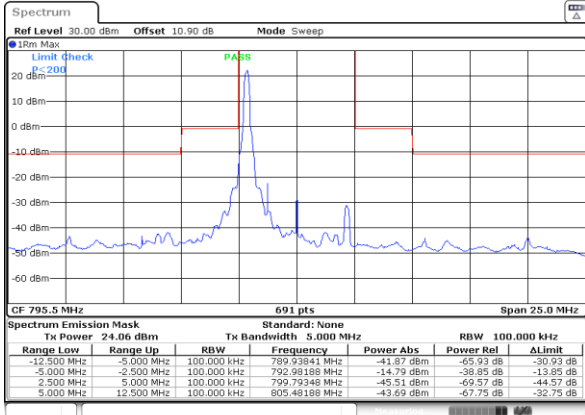


Date: 2.AUG.2023 21:26:20

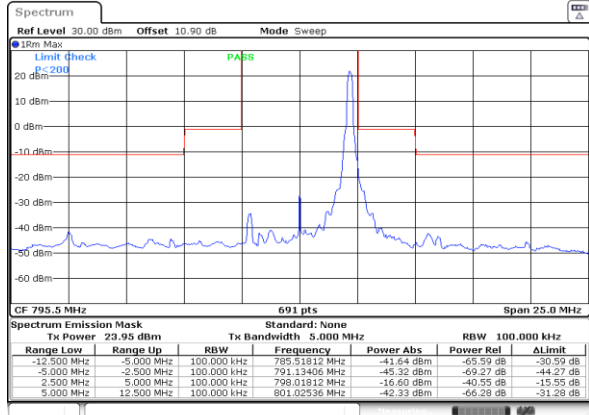


LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB

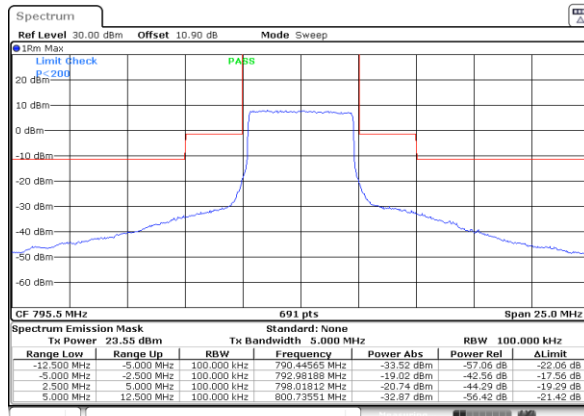


Date: 2.AUG.2023 21:29:46



Date: 2.AUG.2023 23:13:43

Highest Channel / Full RB



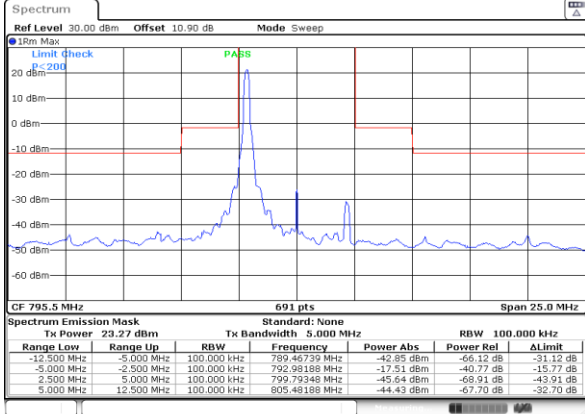
Date: 2.AUG.2023 23:40:10



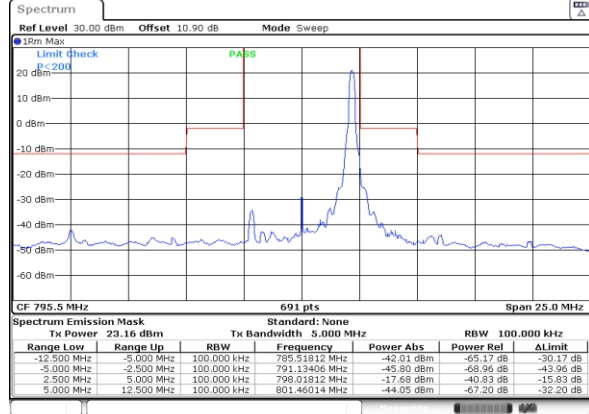


LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

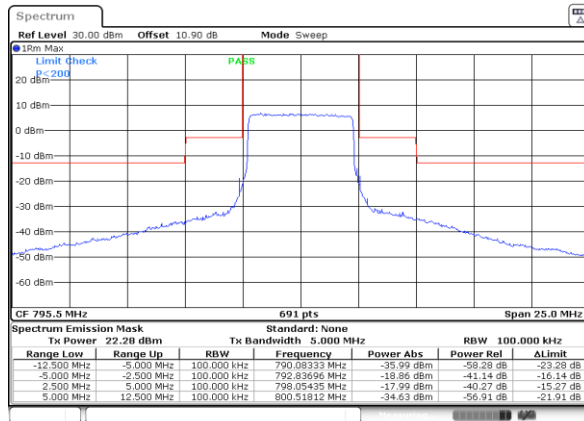


Date: 2.AUG.2023 22:45:27



Date: 2.AUG.2023 23:20:19

Highest Channel / Full RB

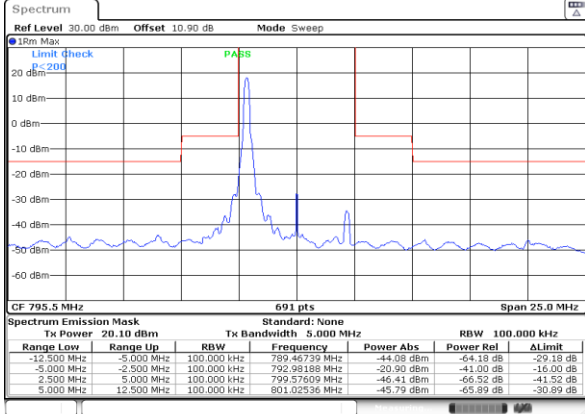


Date: 2.AUG.2023 21:33:14

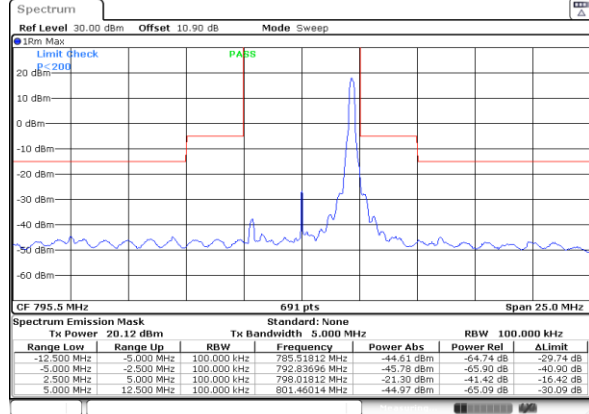


LTE Band 14 / 5MHz / 256QAM

Highest Channel / 1RB

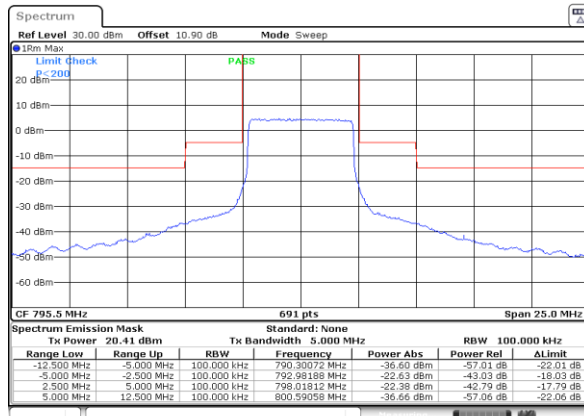


Date: 2.AUG.2023 23:04:10

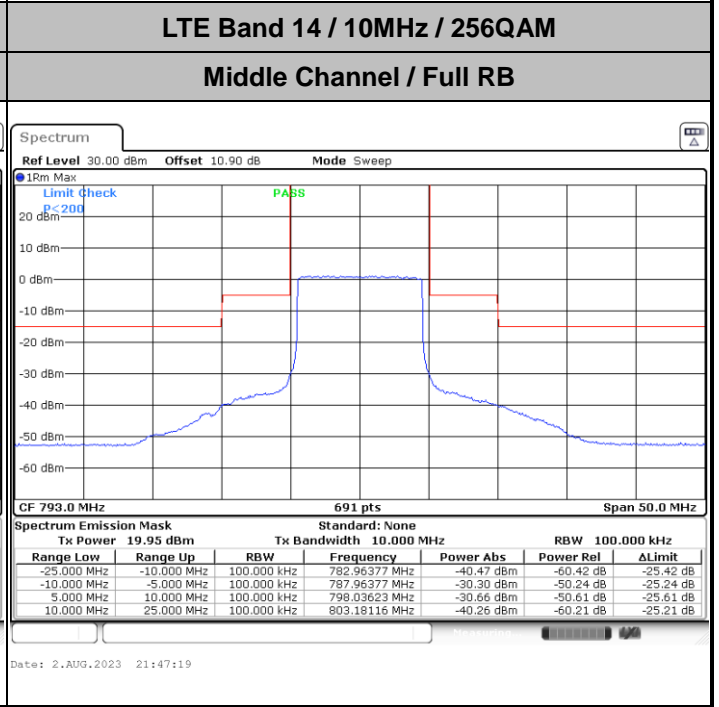
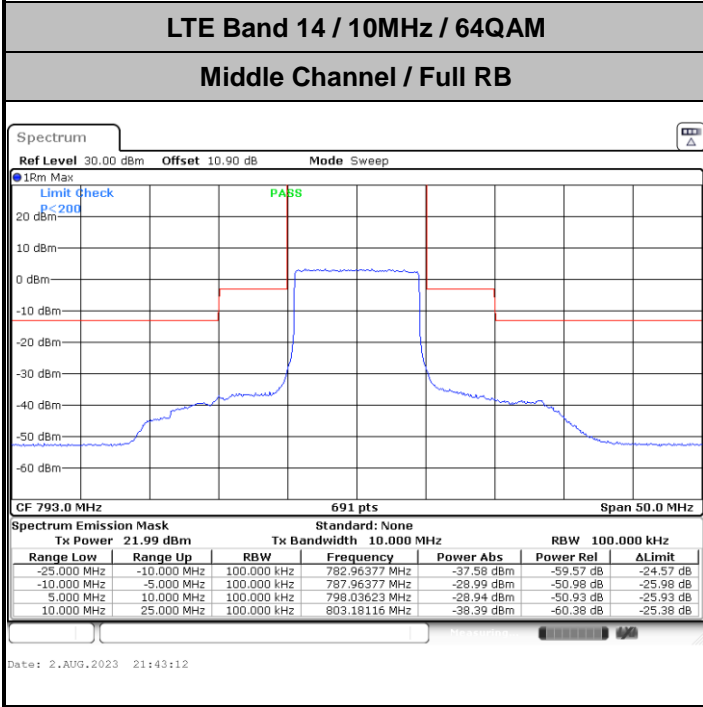
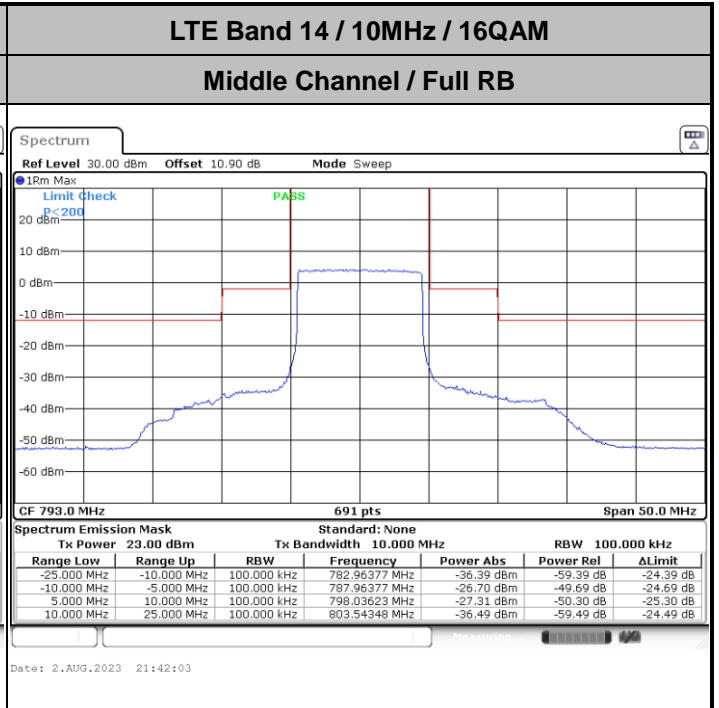
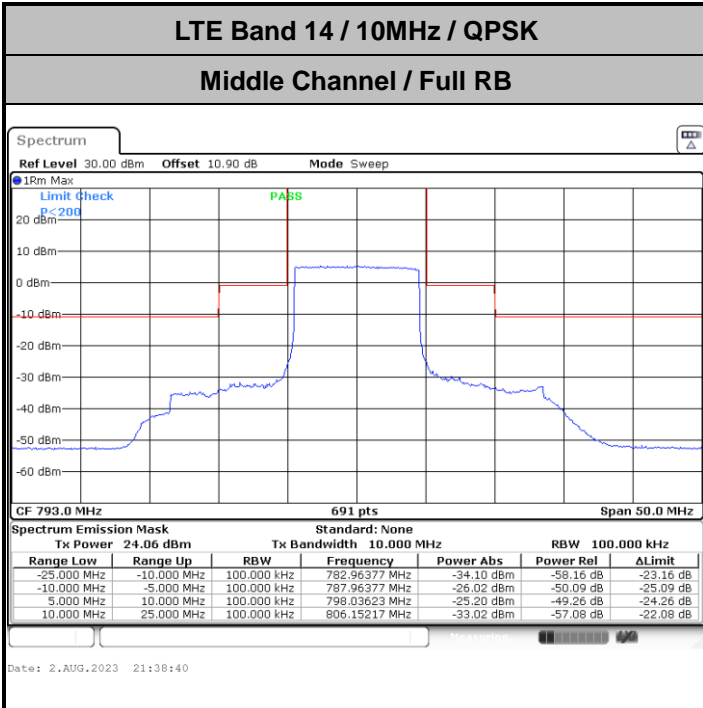


Date: 2.AUG.2023 23:30:08

Highest Channel / Full RB



Date: 2.AUG.2023 23:52:49





Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0137	PASS
40	Normal Voltage	0.0137	
30	Normal Voltage	0.0076	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0148	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0168	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0154	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 17

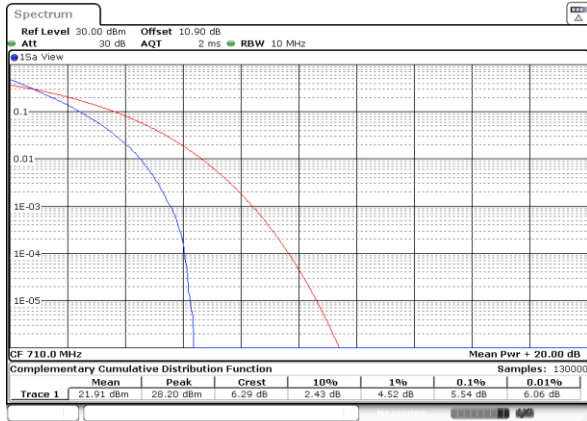
### Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.54	6.14	6.35	6.41	<b>PASS</b>



LTE Band 17 / 10MHz / QPSK

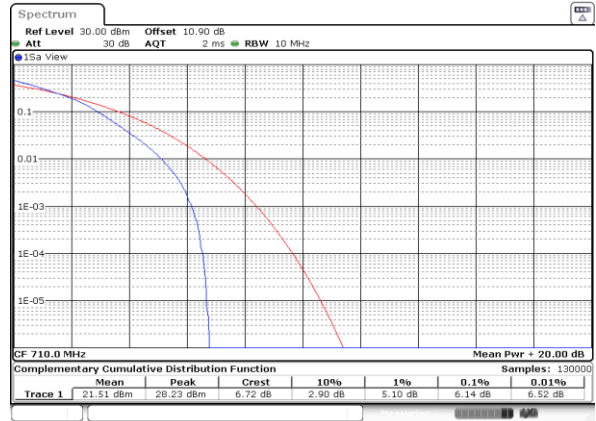
Middle Channel / Full RB



Date: 1.AUG.2023 23:43:46

LTE Band 17 / 10MHz / 16QAM

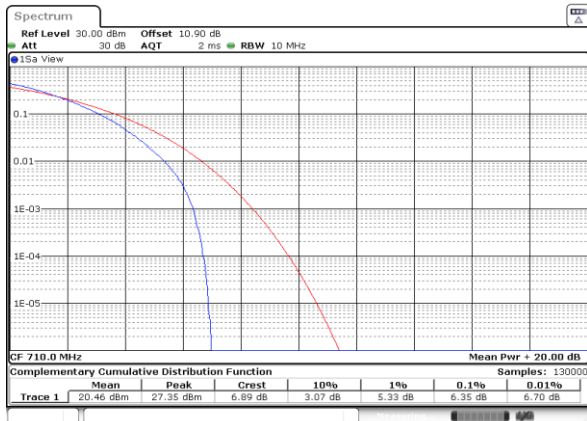
Middle Channel / Full RB



Date: 1.AUG.2023 23:43:15

LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 1.AUG.2023 23:44:16

LTE Band 17 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 1.AUG.2023 23:52:28



**26dB Bandwidth**

Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.28	5.04	9.91	10.07	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	5.38	5.26	9.75	9.91	-	-	-	-