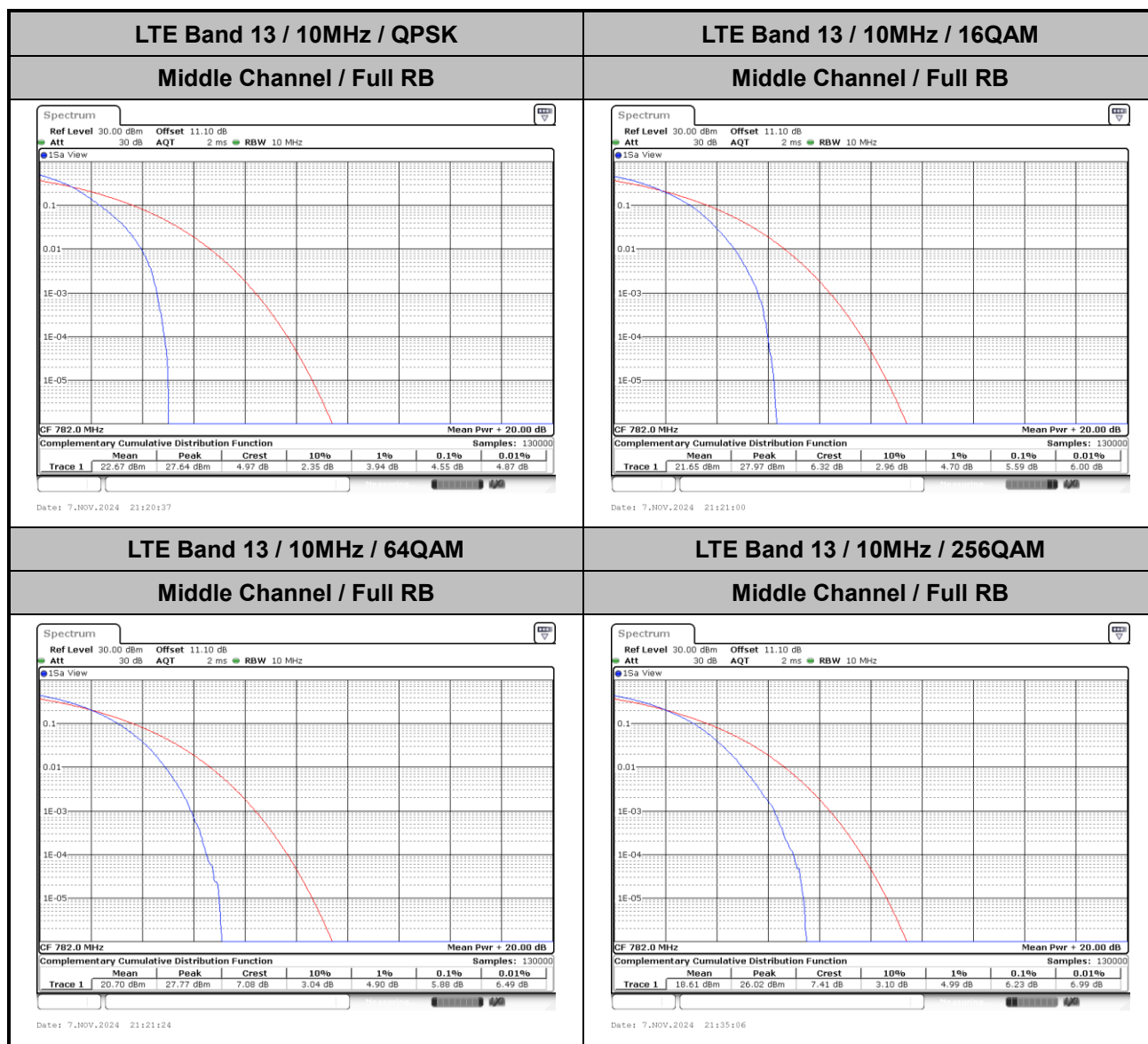




LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.59	5.88	6.23	PASS



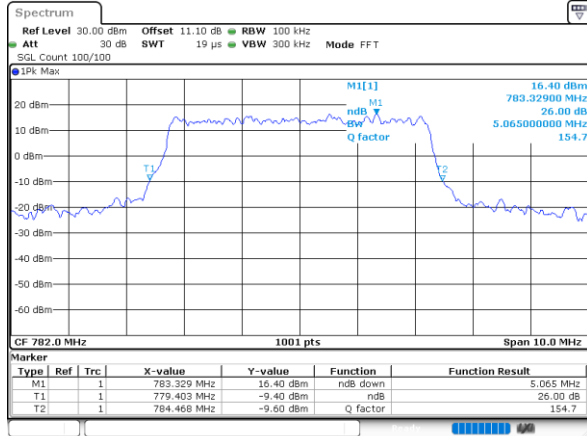
**26dB Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	5.06	4.84	9.99	10.07	-	-	-	-
Mode	LTE Band 13 : 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	-	-	-	-	4.93	5.12	9.91	9.68	-	-	-	-

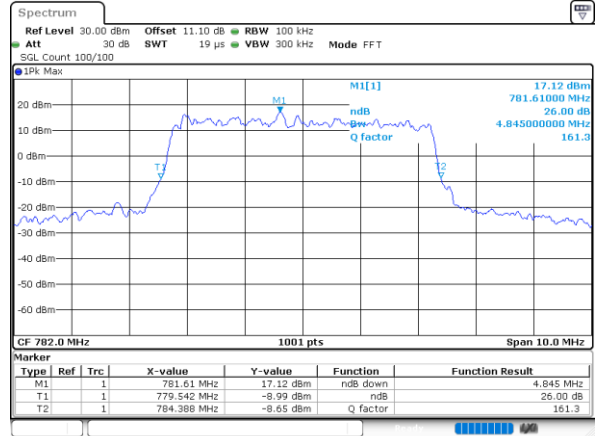


LTE Band 13

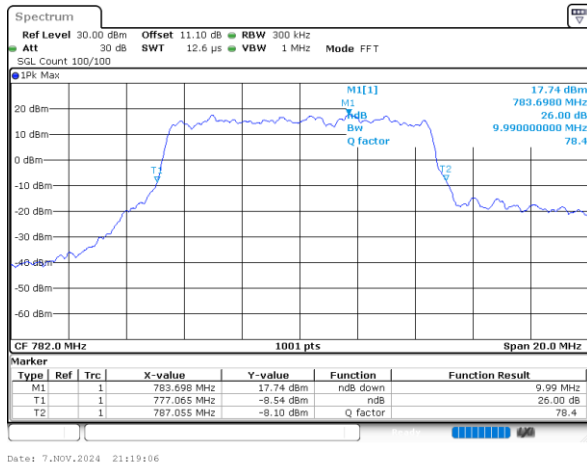
Middle Channel / 5MHz / QPSK



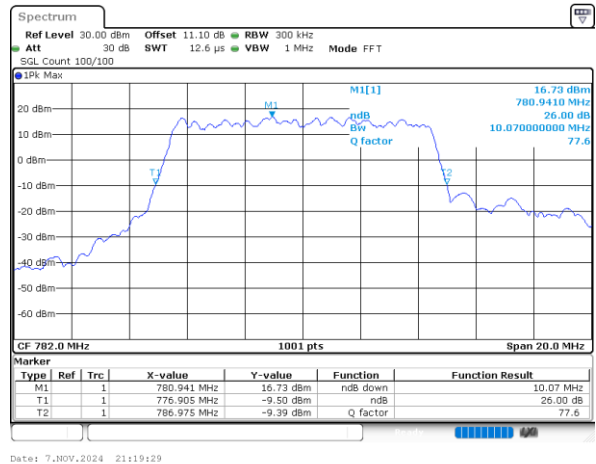
Middle Channel / 5MHz / 16QAM



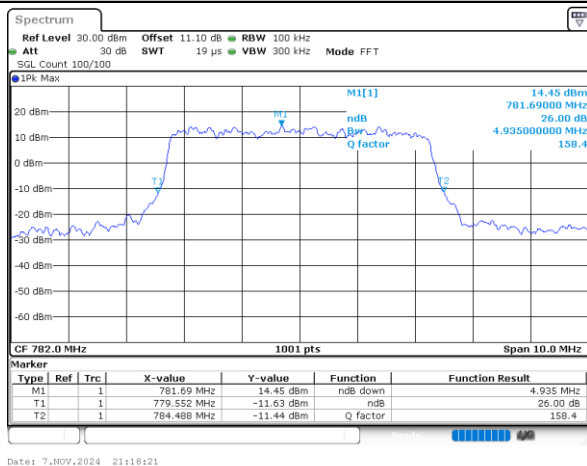
Middle Channel / 10MHz / QPSK



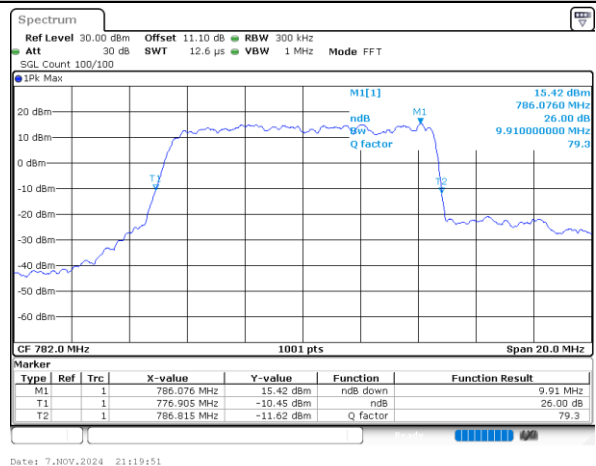
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



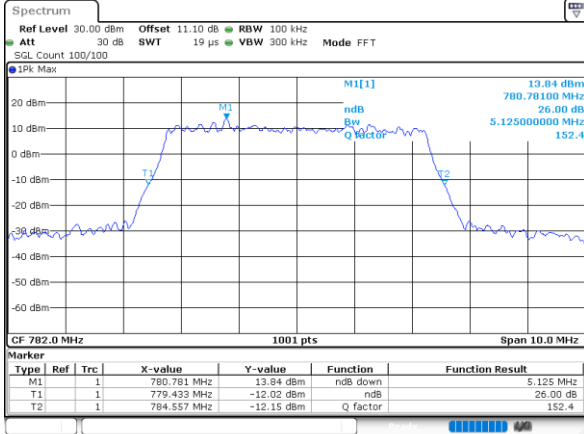
Middle Channel / 10MHz / 64QAM



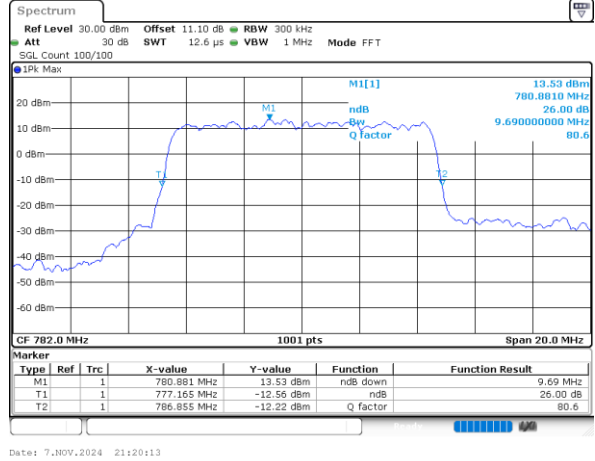


LTE Band 13

Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM



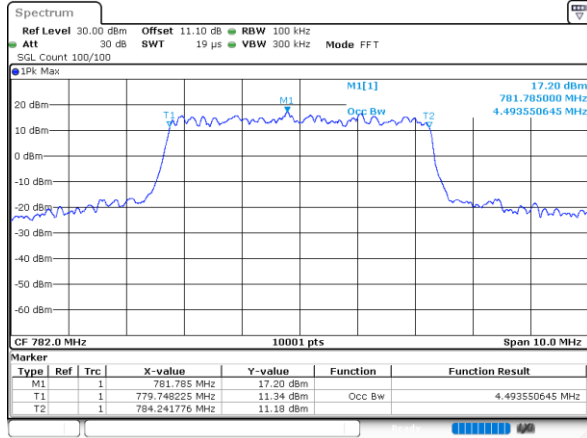
**Occupied Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.49	4.49	9.08	8.97	-	-	-	-
Mode	LTE Band 13 : 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	-	-	-	-	4.49	4.46	8.98	8.97	-	-	-	-

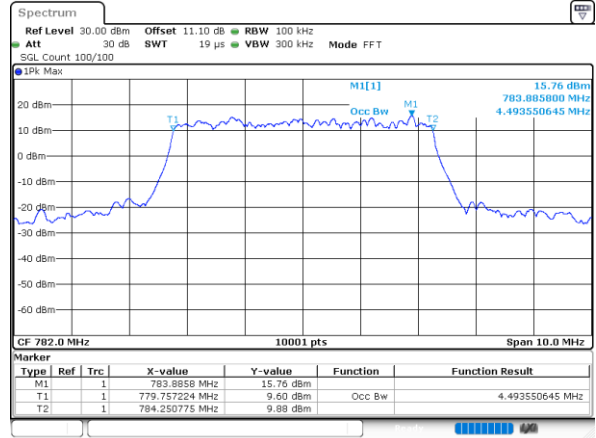


LTE Band 13

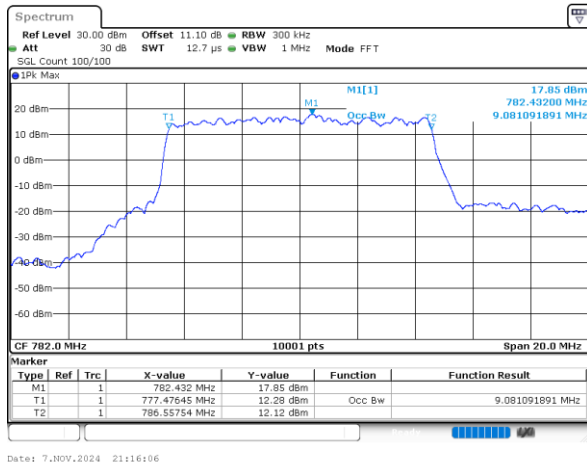
Middle Channel / 5MHz / QPSK



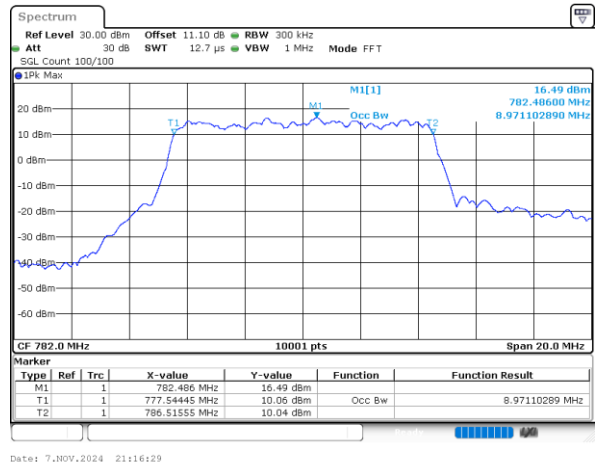
Middle Channel / 5MHz / 16QAM



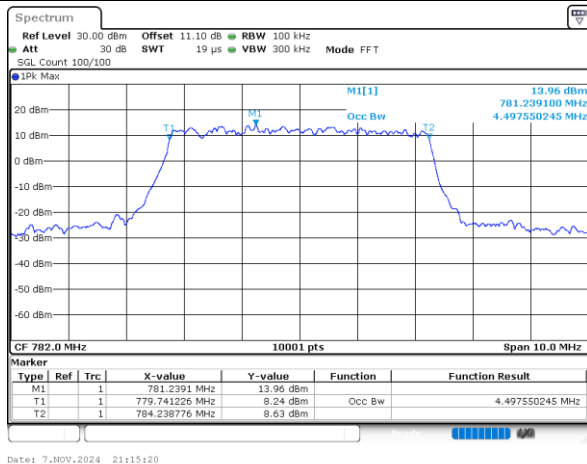
Middle Channel / 10MHz / QPSK



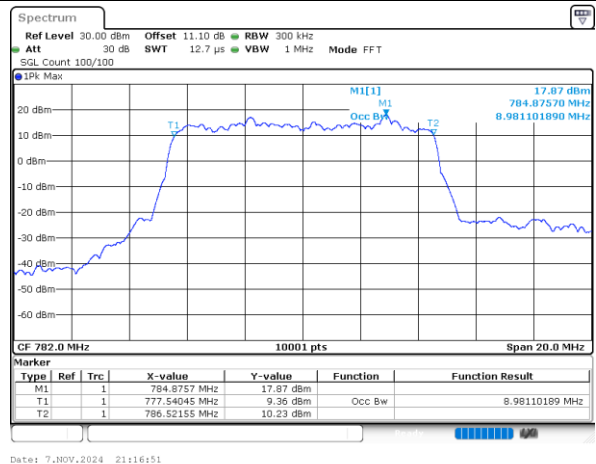
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



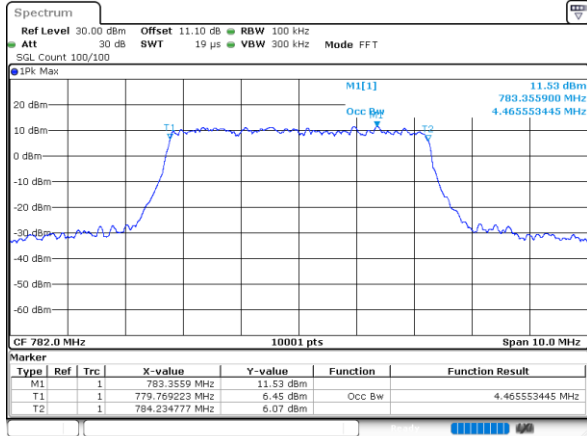
Middle Channel / 10MHz / 64QAM



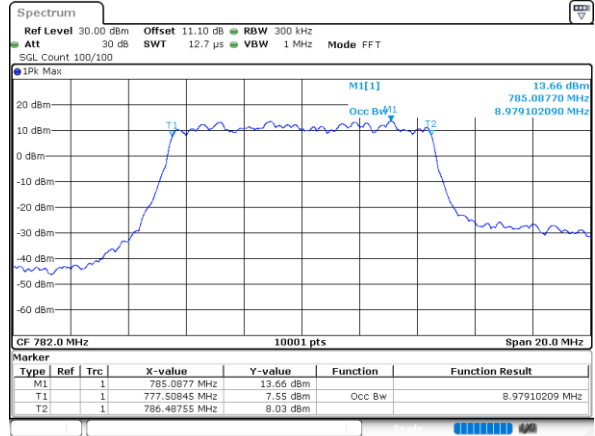


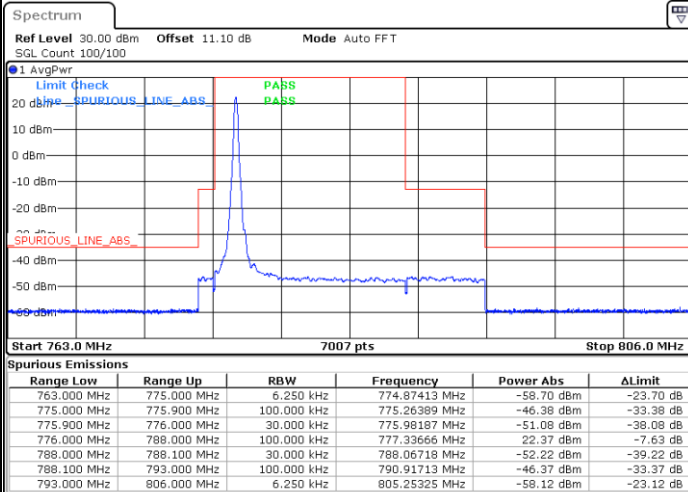
LTE Band 13

Middle Channel / 5MHz / 256QAM

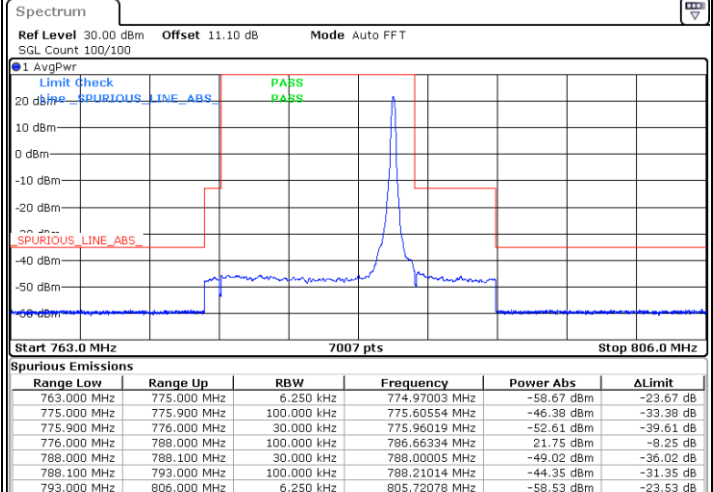


Middle Channel / 10MHz / 256QAM

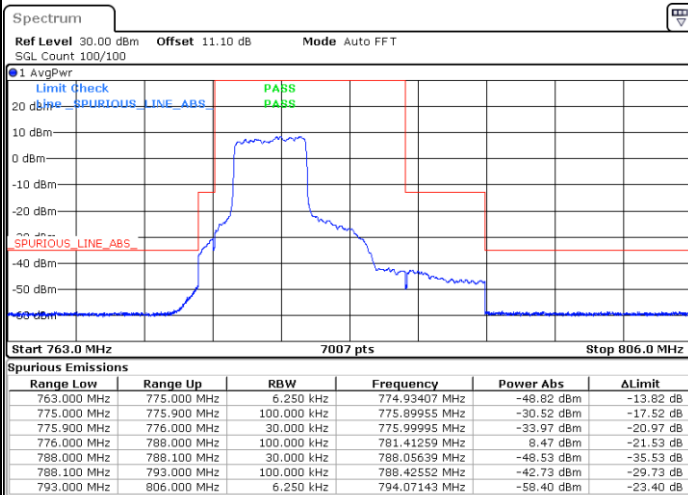


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

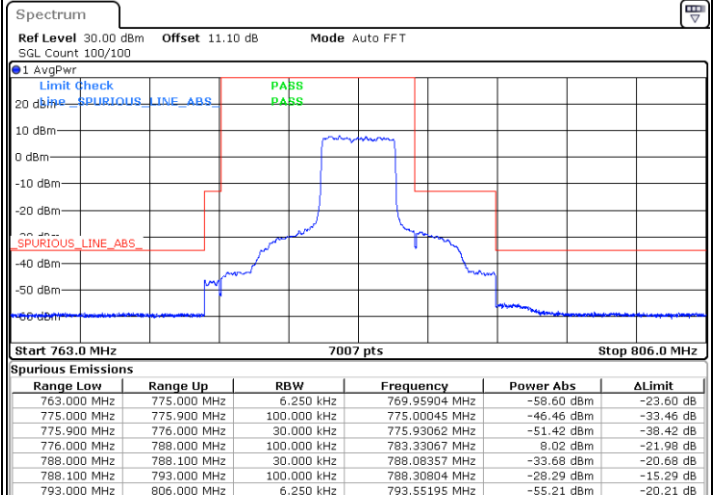
Date: 7.NOV.2024 20:54:55

Highest Band Edge / 1 RB

Date: 7.NOV.2024 21:03:22

Lowest Band Edge / Full RB

Date: 7.NOV.2024 20:50:42

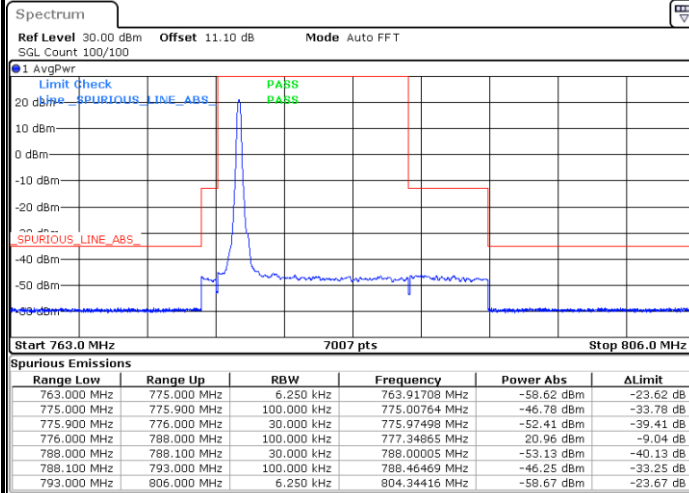
Highest Band Edge / Full RB

Date: 7.NOV.2024 20:59:09

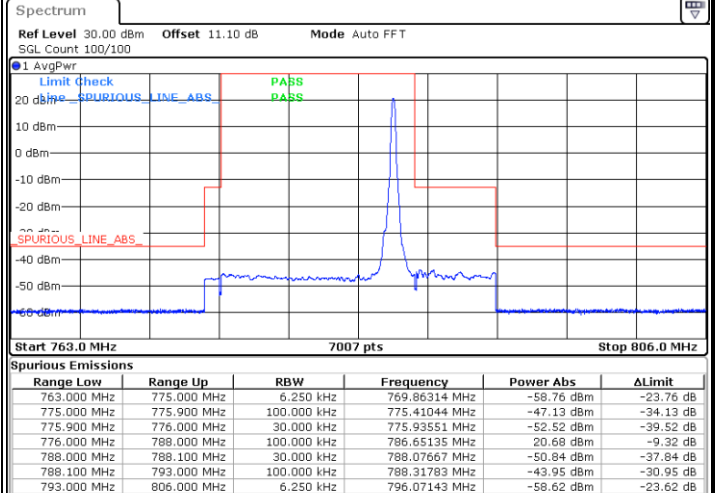


LTE Band 13 / 5MHz / 16QAM

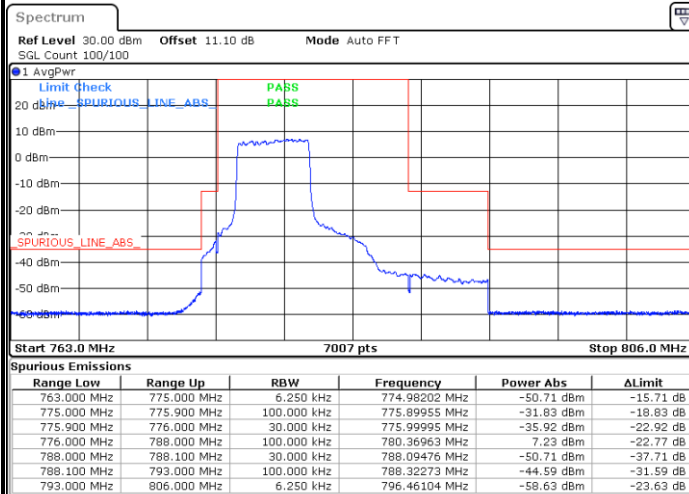
Lowest Band Edge / 1 RB



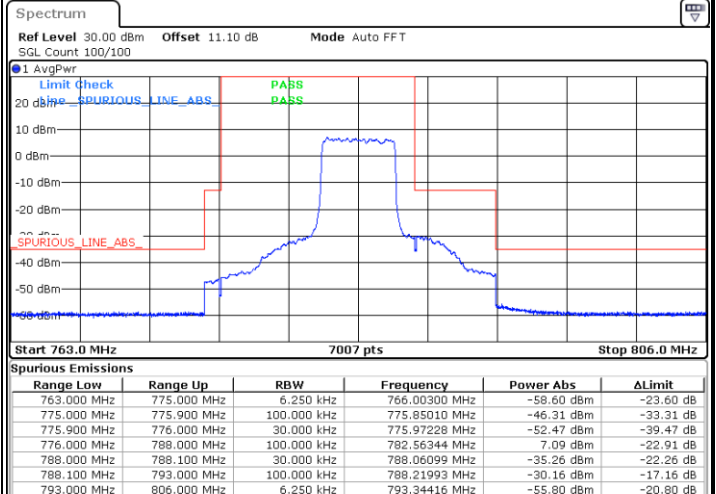
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



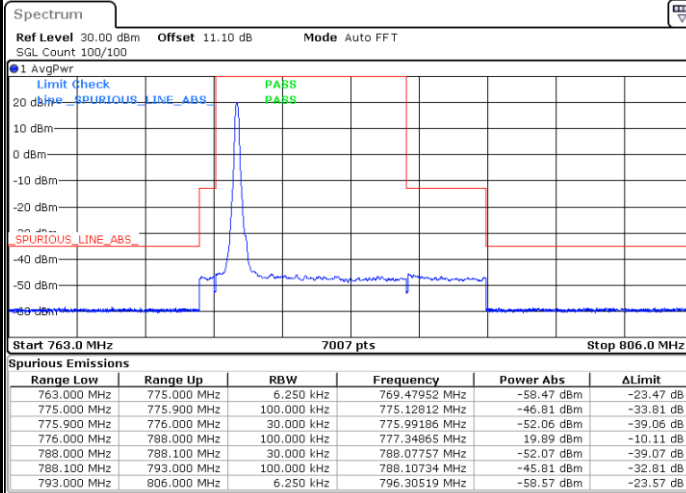
Highest Band Edge / Full RB





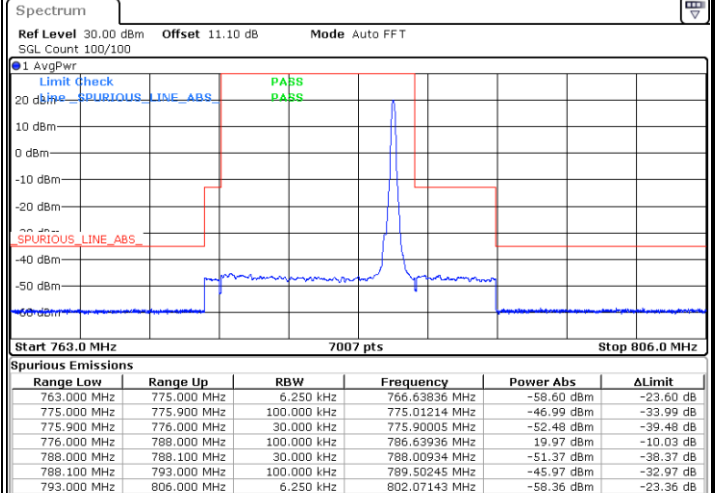
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



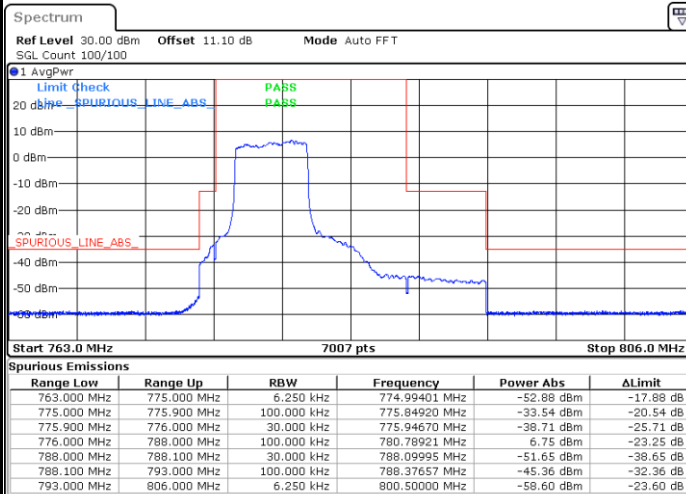
Date: 7.NOV.2024 20:57:01

Highest Band Edge / 1 RB



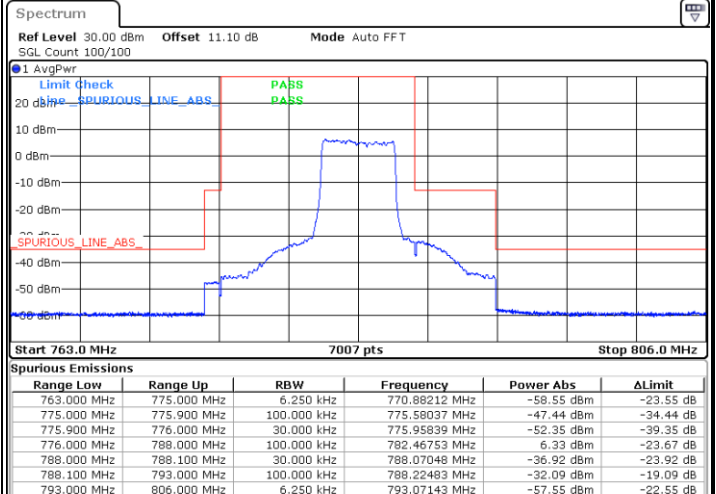
Date: 7.NOV.2024 21:05:27

Lowest Band Edge / Full RB



Date: 7.NOV.2024 20:52:47

Highest Band Edge / Full RB

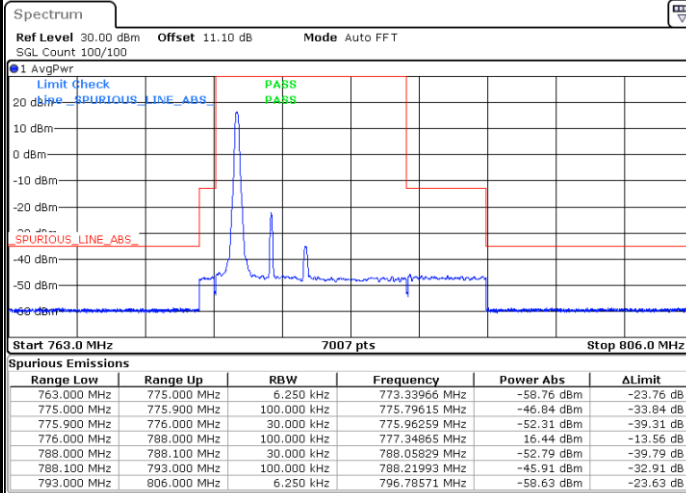


Date: 7.NOV.2024 21:01:14



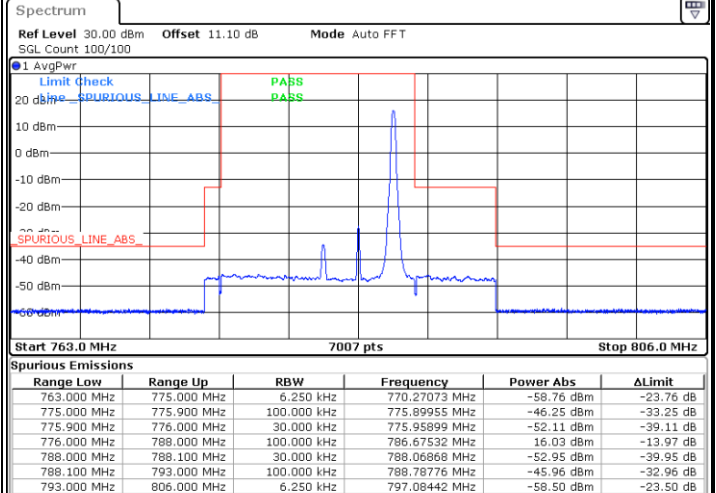
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



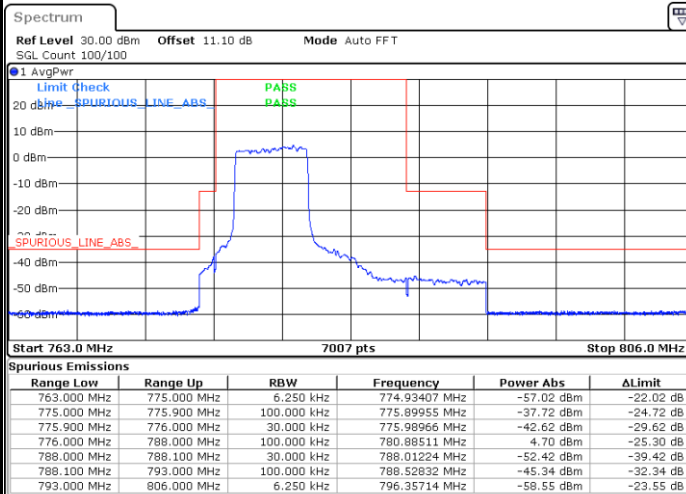
Date: 7.NOV.2024 20:58:03

Highest Band Edge / 1 RB



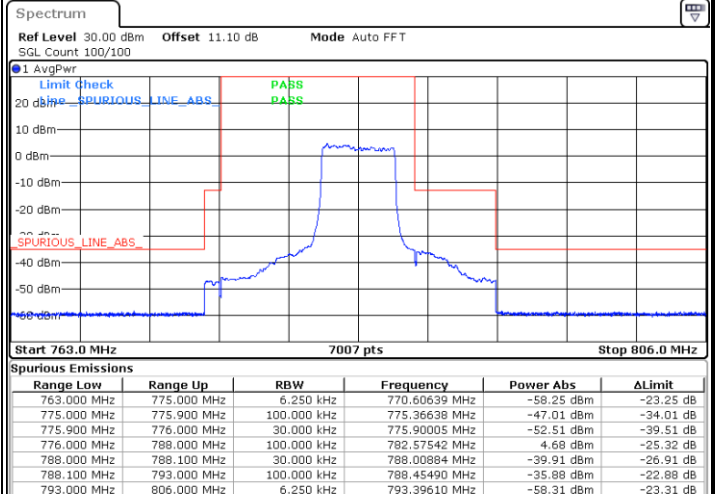
Date: 7.NOV.2024 21:06:30

Lowest Band Edge / Full RB



Date: 7.NOV.2024 20:53:50

Highest Band Edge / Full RB

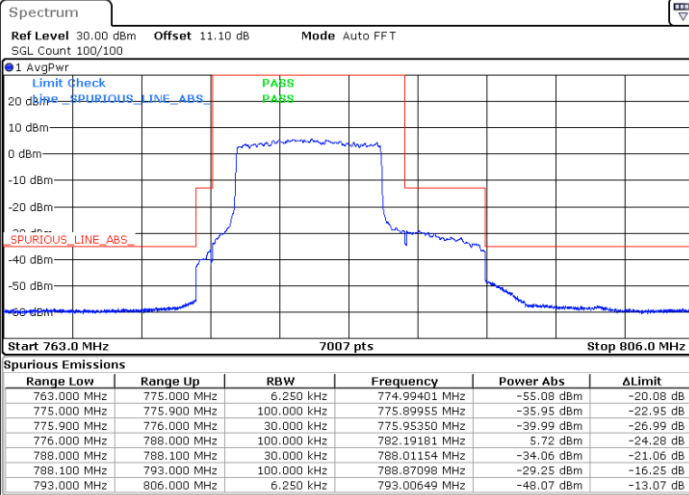


Date: 7.NOV.2024 21:02:17



LTE Band 13 / 10MHz / QPSK

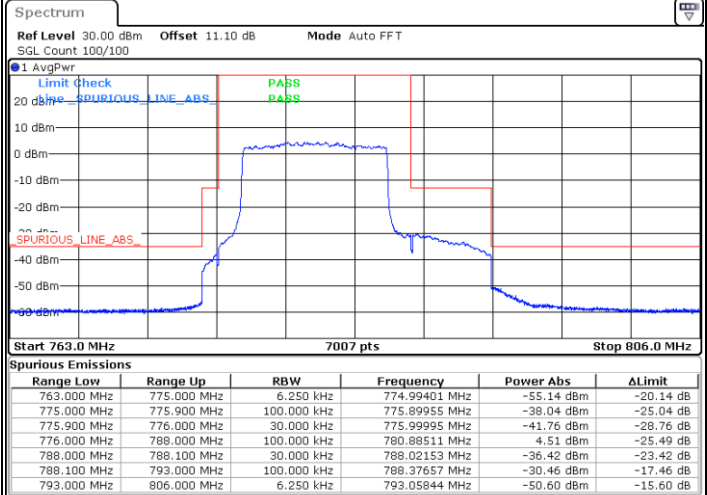
Band Edge / Full RB



Date: 7.NOV.2024 21:11:06

LTE Band 13 / 10MHz / 16QAM

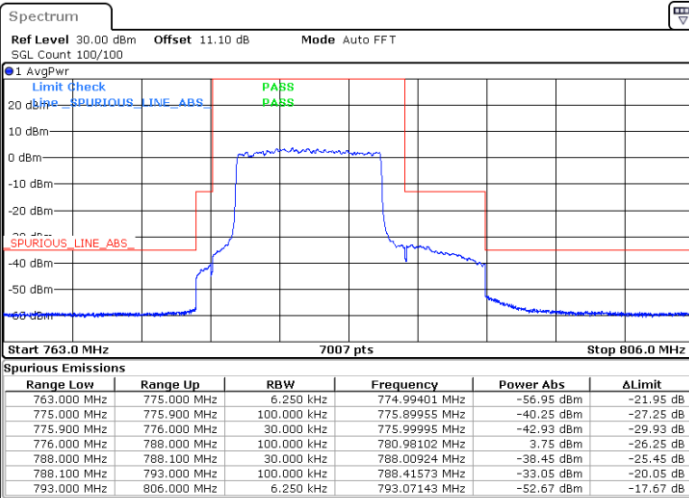
Band Edge / Full RB



Date: 7.NOV.2024 21:12:08

LTE Band 13 / 10MHz / 64QAM

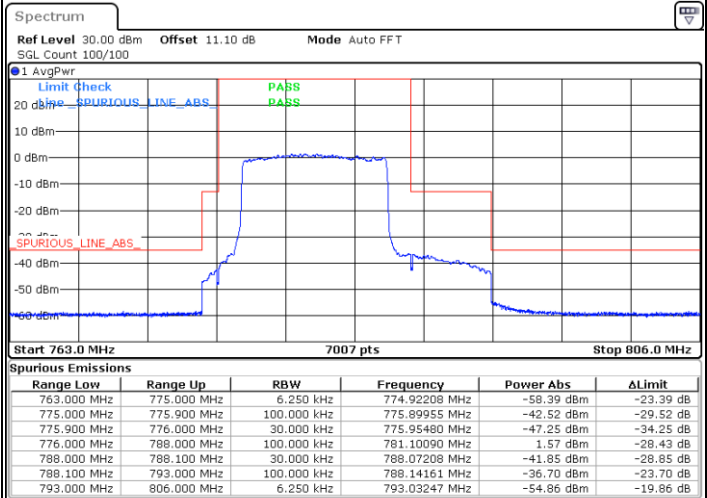
Band Edge / Full RB



Date: 7.NOV.2024 21:13:10

LTE Band 13 / 10MHz / 256QAM

Band Edge / Full RB



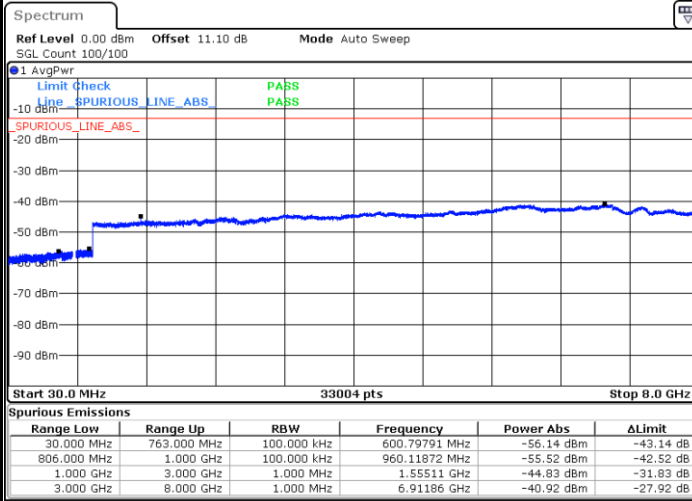
Date: 7.NOV.2024 21:14:12



Conducted Spurious Emission

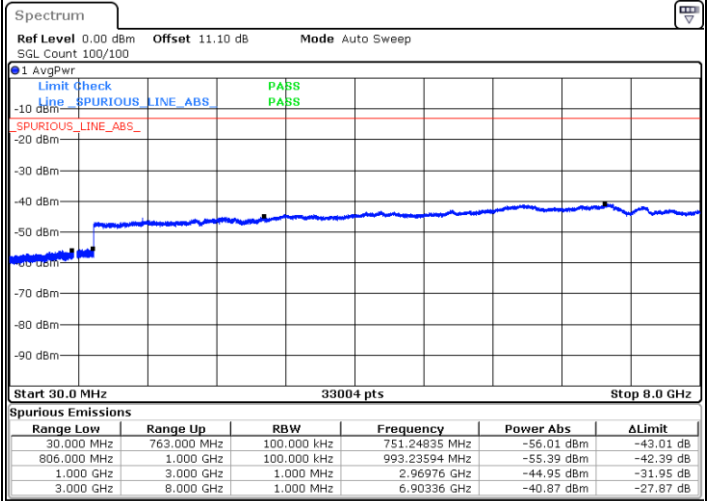
LTE Band 13 / 5MHz

Lowest Channel / QPSK



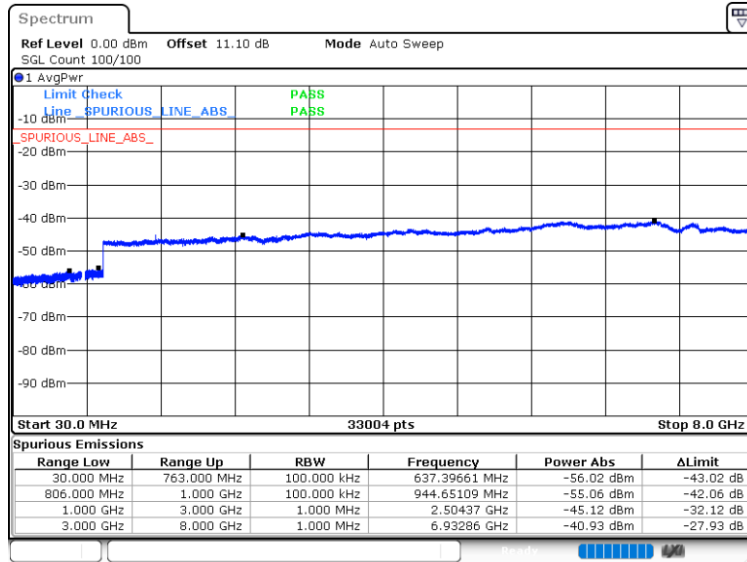
Date: 7.NOV.2024 21:22:59

Middle Channel / QPSK



Date: 7.NOV.2024 21:24:11

Highest Channel / QPSK

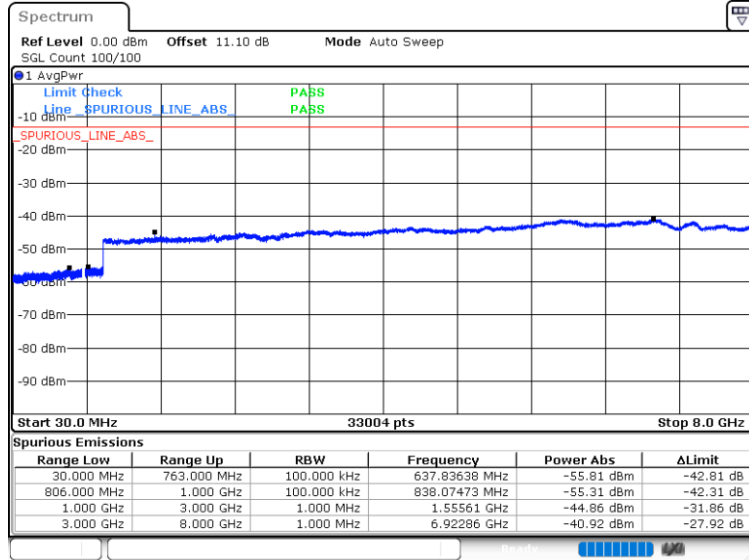


Date: 7.NOV.2024 21:25:23



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 7.NOV.2024 21:26:36

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	0.0012	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0055	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0093	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0066	

Note:

1. Normal Voltage =3.3 V. ; Minimum Voltage =3.135 V. ; Maximum Voltage =3.465 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



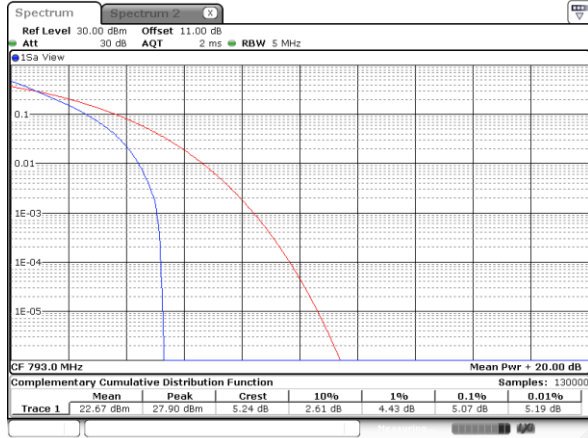
LTE Band 14

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	5.07	6.03	6.61	6.72	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	5.07	6.00	6.43	6.87	PASS

LTE Band 14 / 5MHz / QPSK

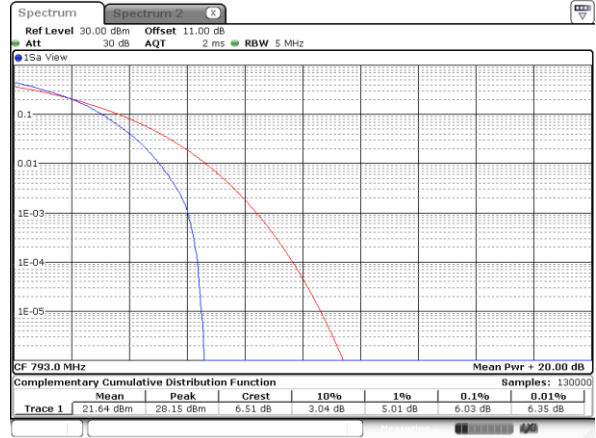
Middle Channel / Full RB



Date: 20.NOV.2024 15:48:01

LTE Band 14 / 5MHz / 16QAM

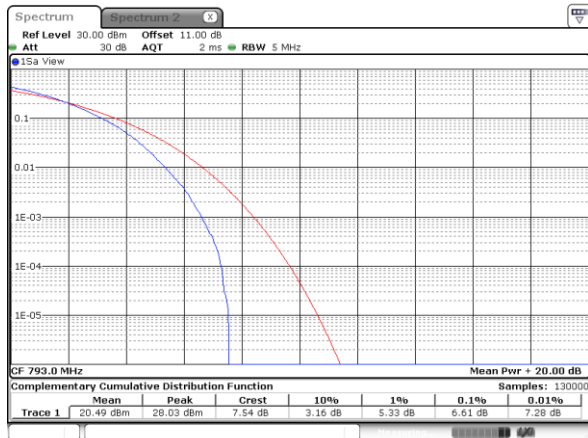
Middle Channel / Full RB



Date: 20.NOV.2024 15:48:30

LTE Band 14 / 5MHz / 64QAM

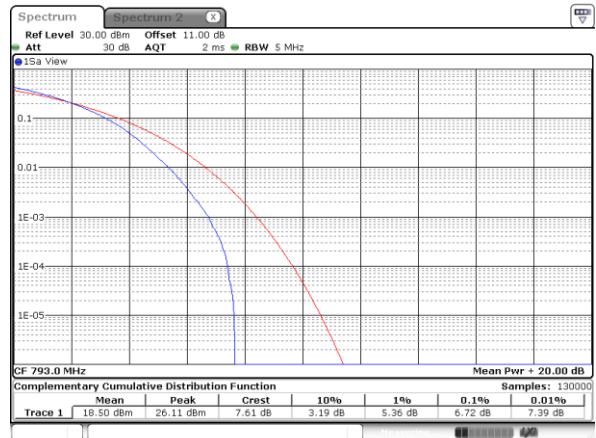
Middle Channel / Full RB



Date: 20.NOV.2024 15:48:59

LTE Band 14 / 5MHz / 256QAM

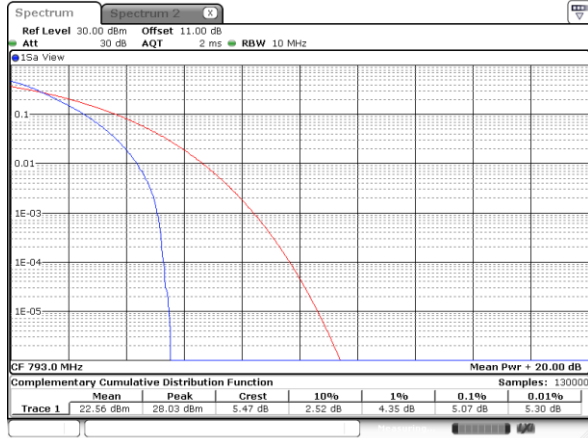
Middle Channel / Full RB



Date: 20.NOV.2024 15:49:28

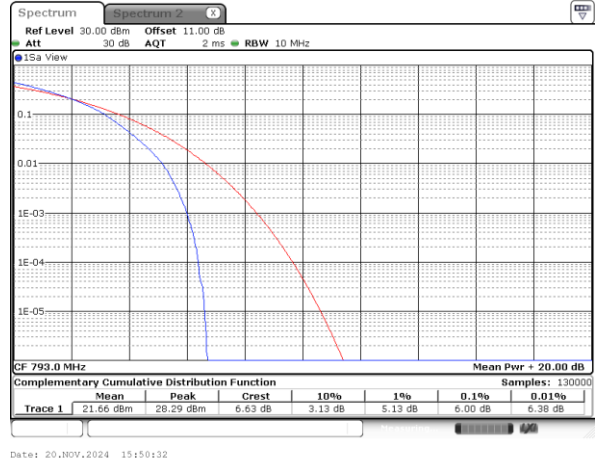
LTE Band 14 / 10MHz / QPSK

Middle Channel / Full RB



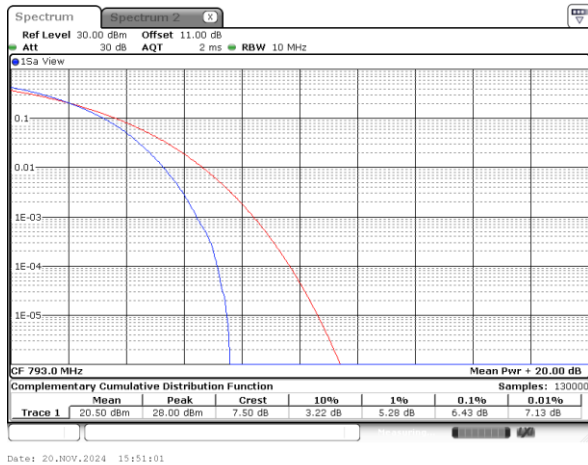
LTE Band 14 / 10MHz / 16QAM

Middle Channel / Full RB



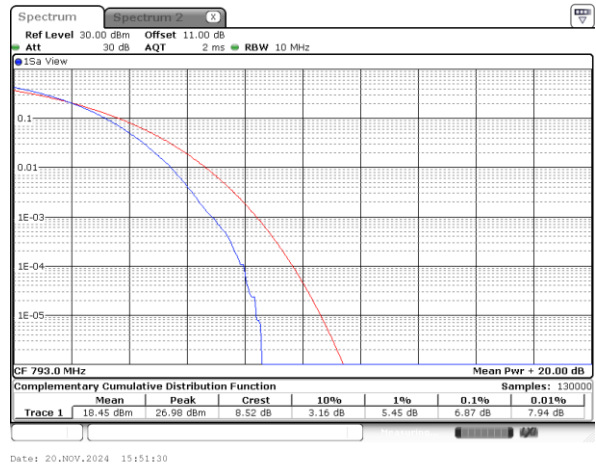
LTE Band 14 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 14 / 10MHz / 256QAM

Middle Channel / Full RB



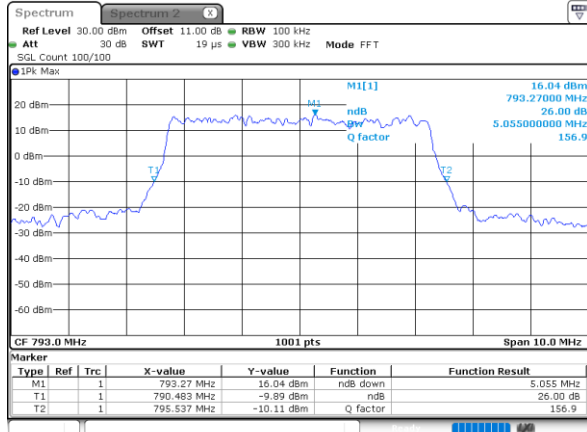
**26dB Bandwidth**

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	-	-	-	-	5.05	4.95	9.89	9.92	-	-	-	-
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	-	-	-	-	4.96	5.10	9.94	9.86	-	-	-	-

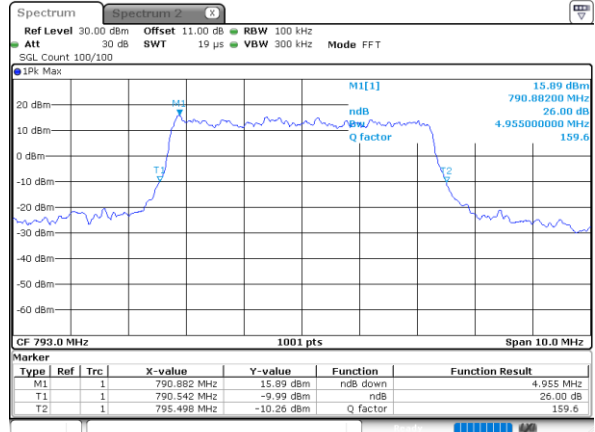


LTE Band 14

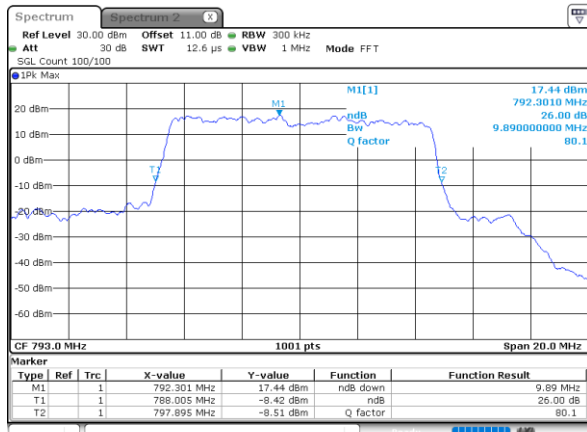
Middle Channel / 5MHz / QPSK



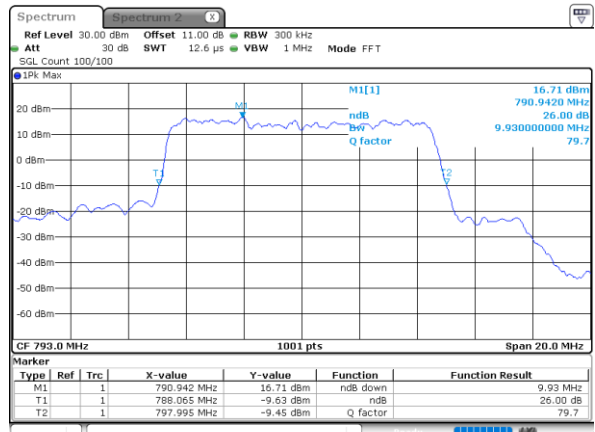
Middle Channel / 5MHz / 16QAM



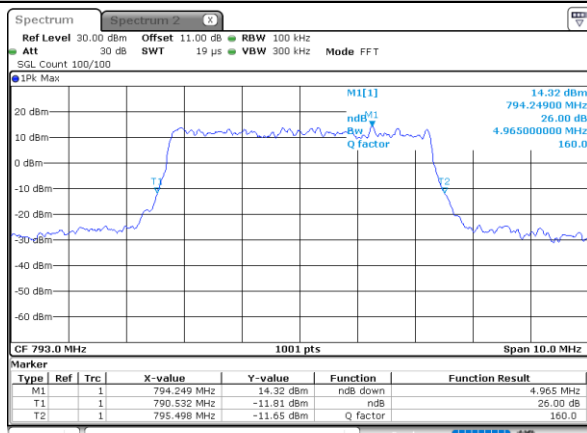
Middle Channel / 10MHz / QPSK



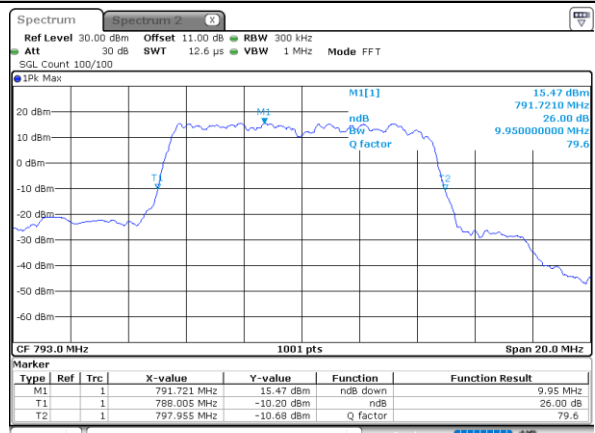
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



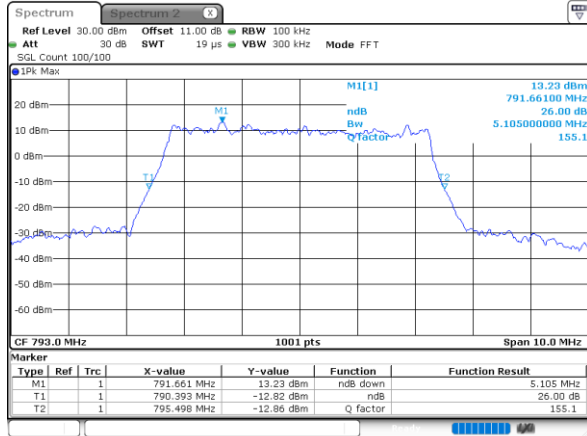
Middle Channel / 10MHz / 64QAM



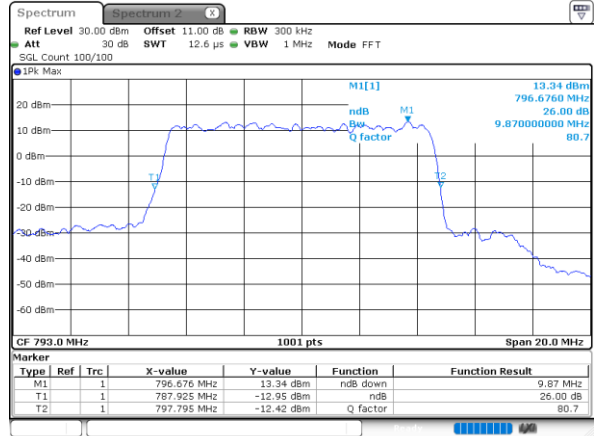


LTE Band 14

Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM



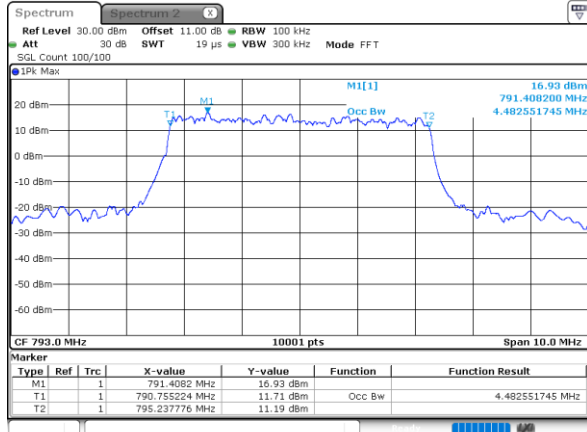
**Occupied Bandwidth**

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	4.47	9.03	9.01	-	-	-	-
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	-	-	-	-	4.49	4.51	9.02	9.04	-	-	-	-

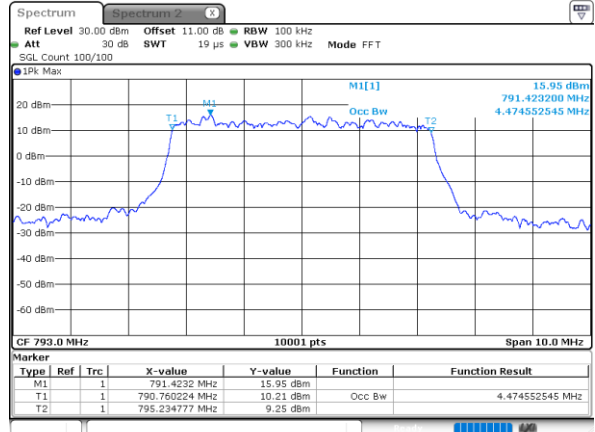


LTE Band 14

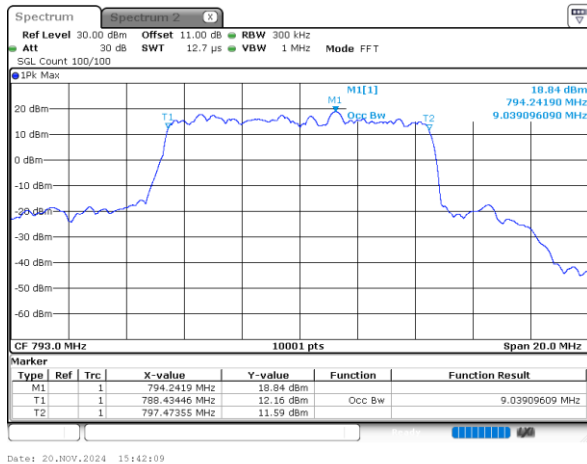
Middle Channel / 5MHz / QPSK



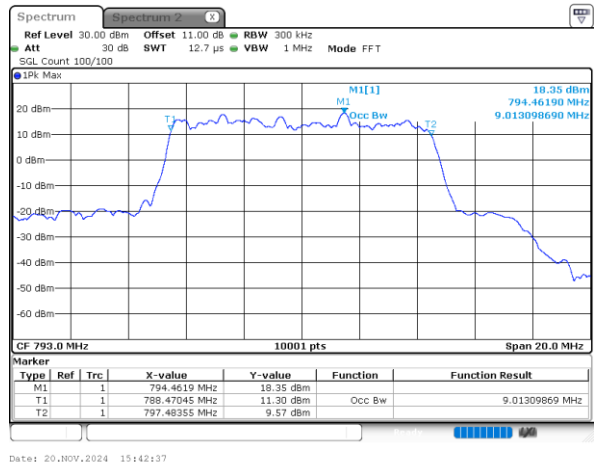
Middle Channel / 5MHz / 16QAM



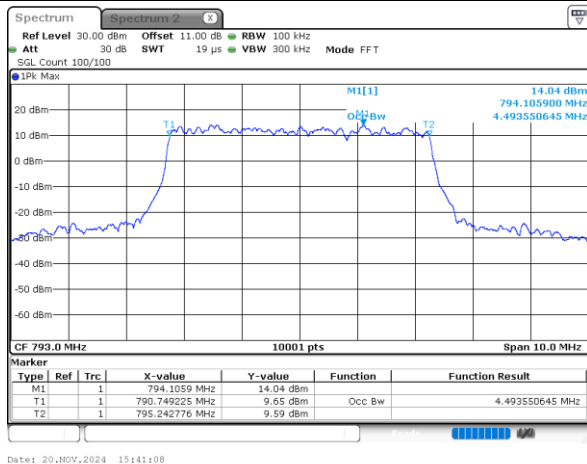
Middle Channel / 10MHz / QPSK



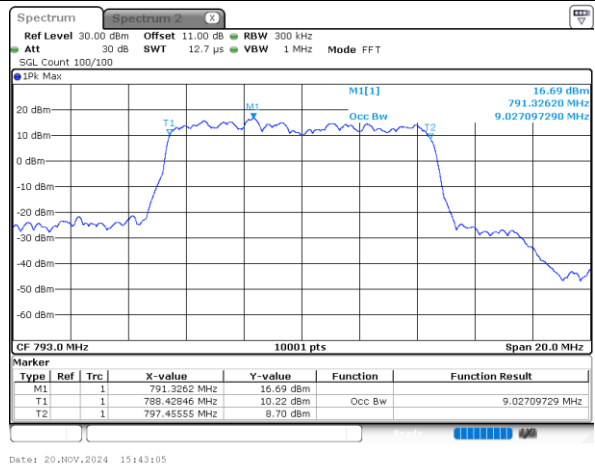
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



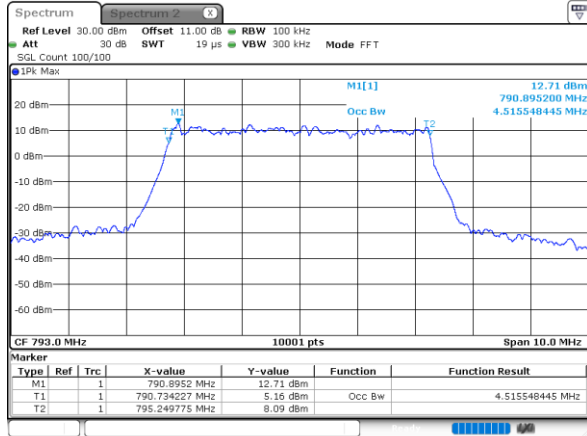
Middle Channel / 10MHz / 64QAM



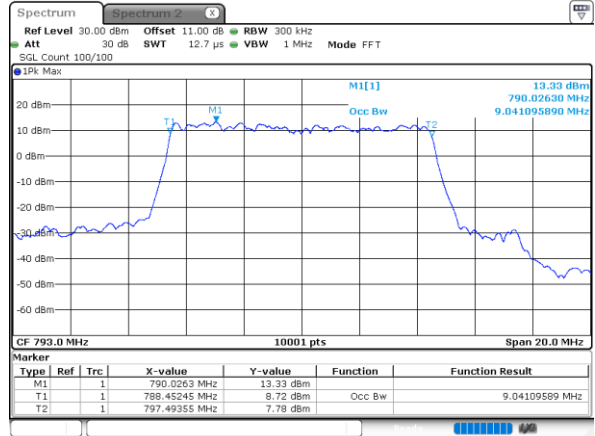


LTE Band 14

Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM

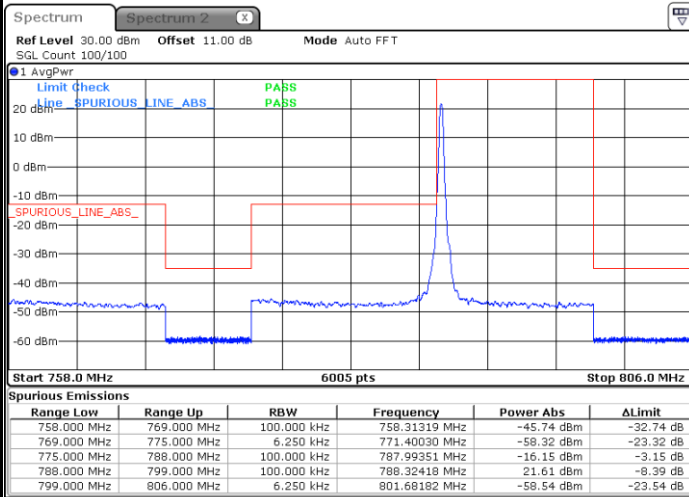




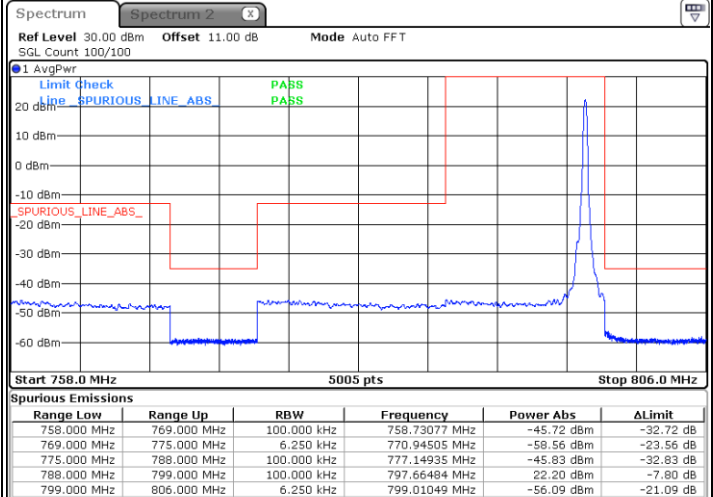
Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

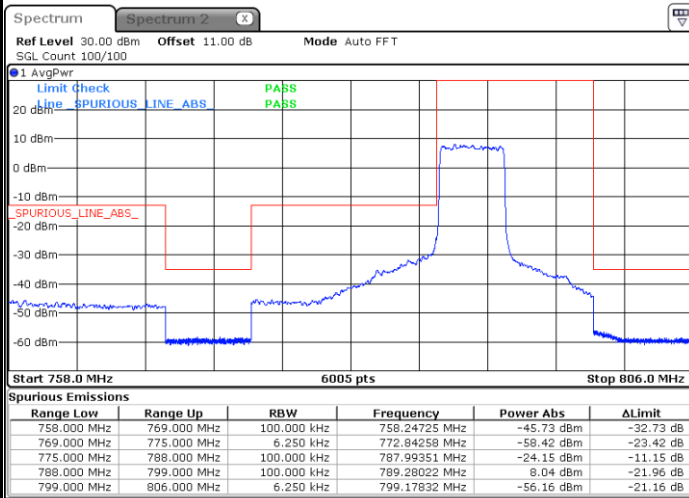
Lowest Band Edge / 1 RB



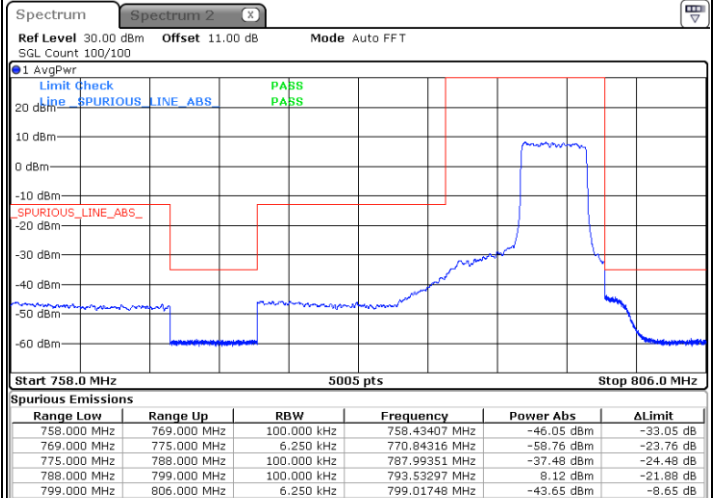
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



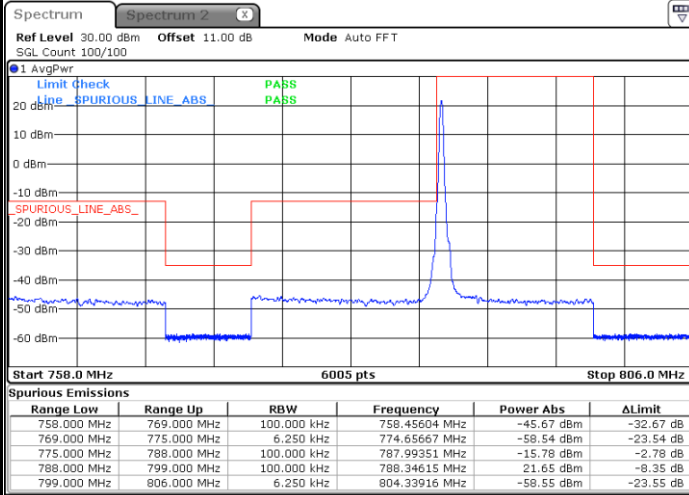
Highest Band Edge / Full RB



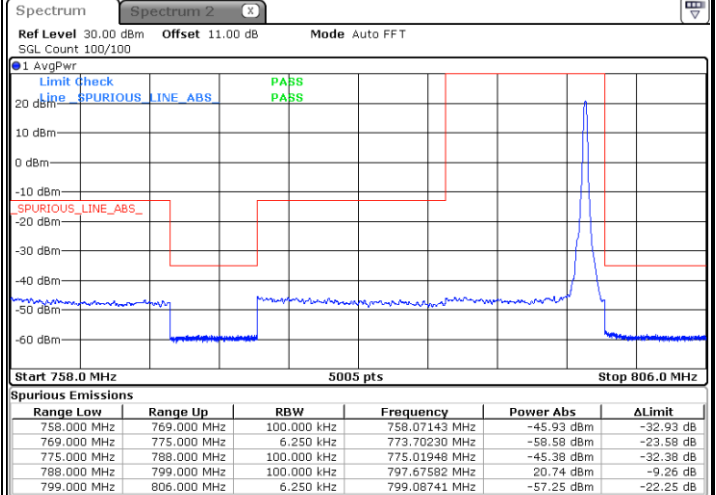


LTE Band 14 / 5MHz / 16QAM

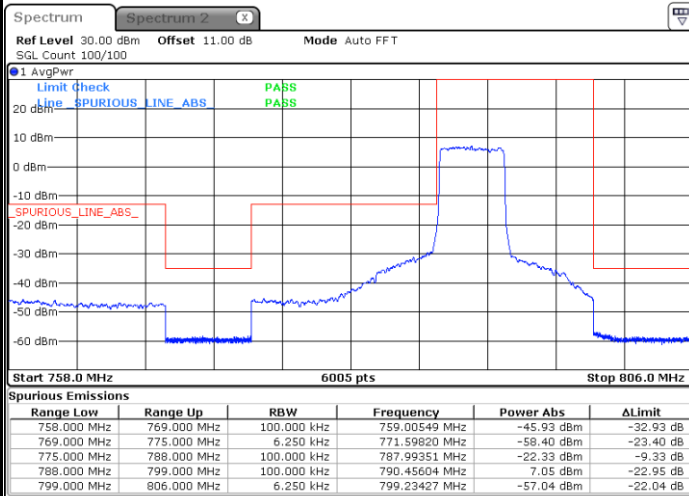
Lowest Band Edge / 1 RB



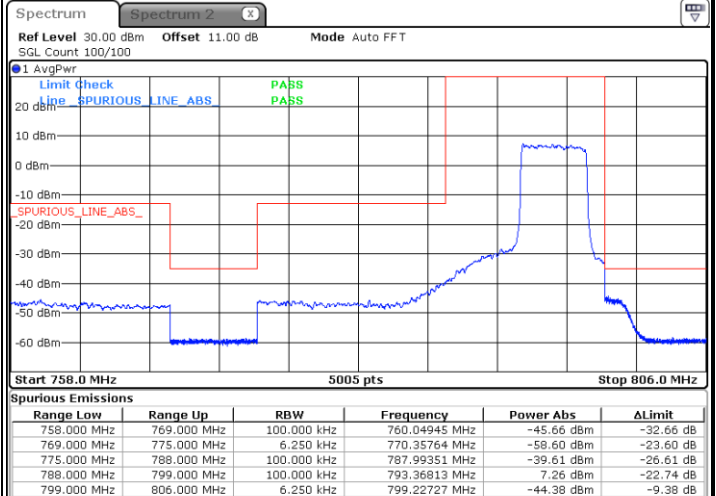
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



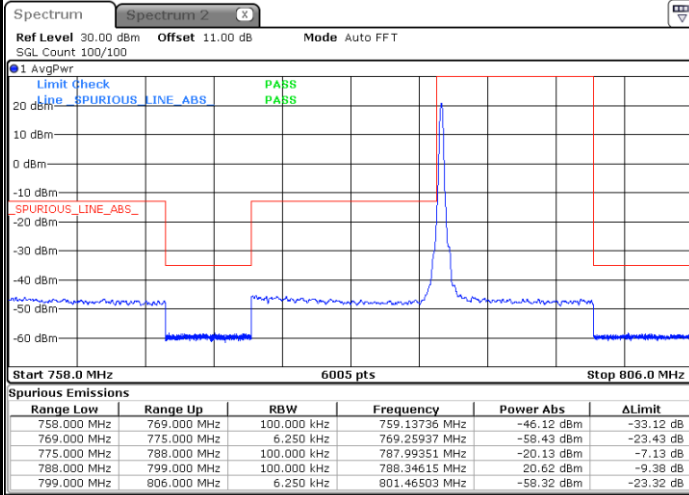
Highest Band Edge / Full RB



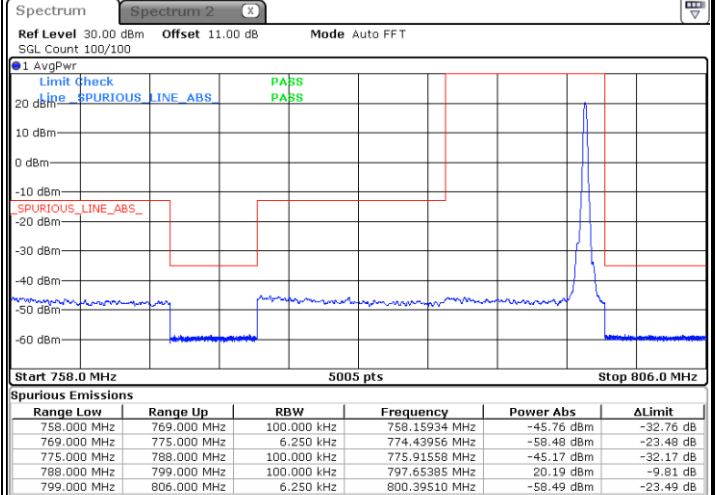


LTE Band 14 / 5MHz / 64QAM

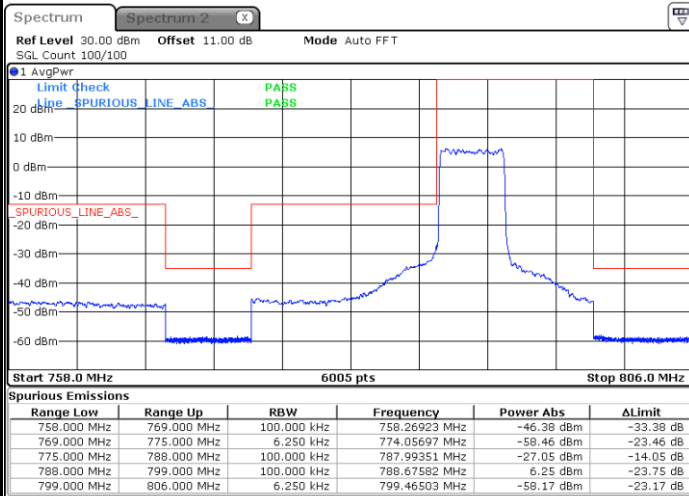
Lowest Band Edge / 1 RB



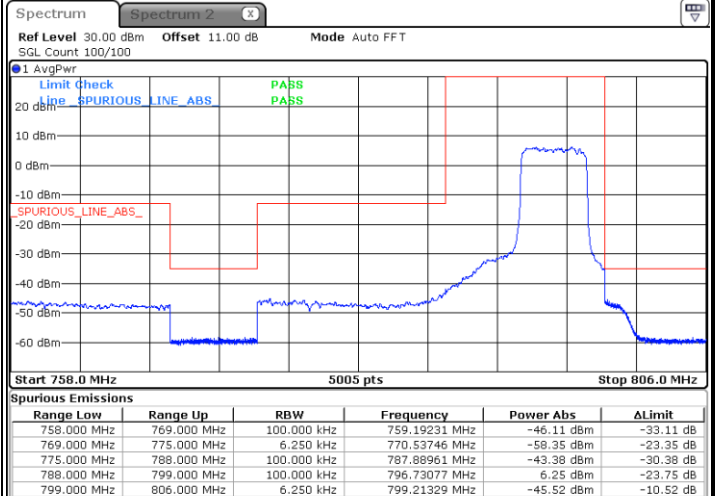
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



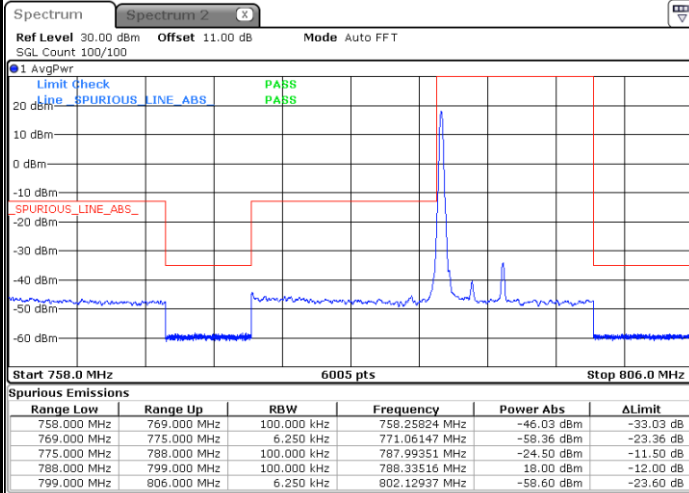
Highest Band Edge / Full RB



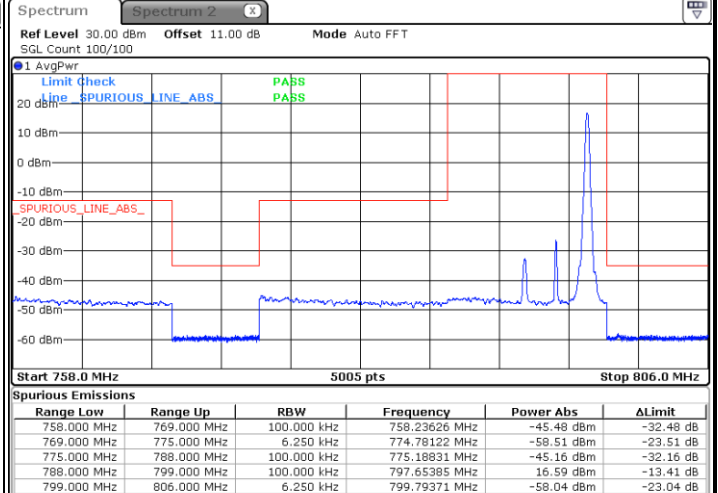


LTE Band 14 / 5MHz / 256QAM

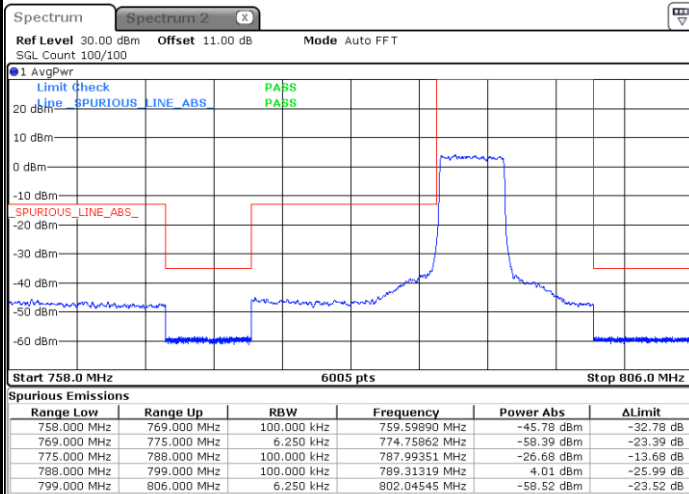
Lowest Band Edge / 1 RB



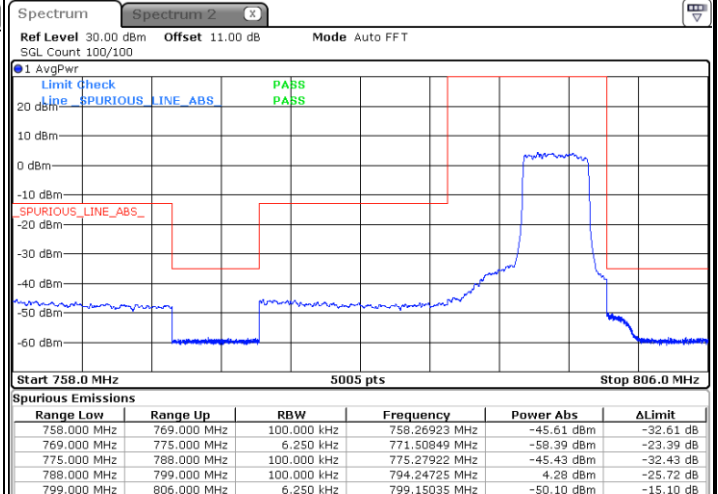
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



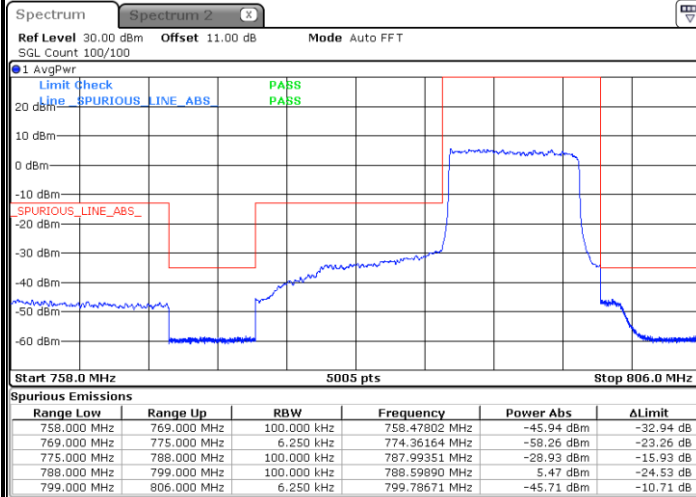
Highest Band Edge / Full RB





LTE Band 14 / 10MHz / QPSK

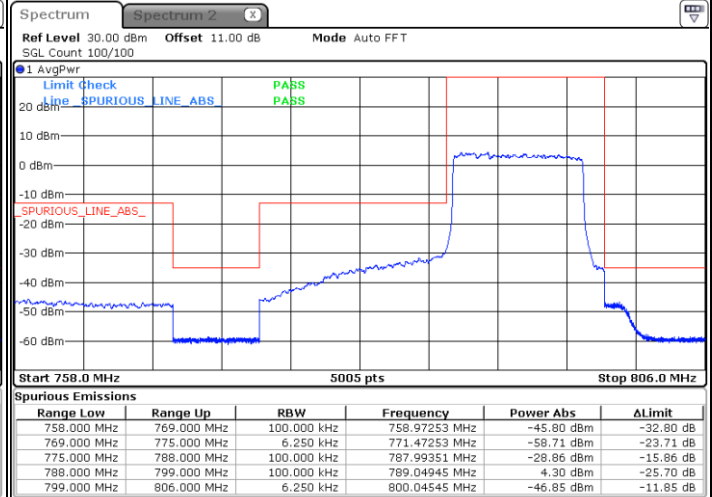
Band Edge / Full RB



Date: 20.NOV.2024 14:51:04

LTE Band 14 / 10MHz / 16QAM

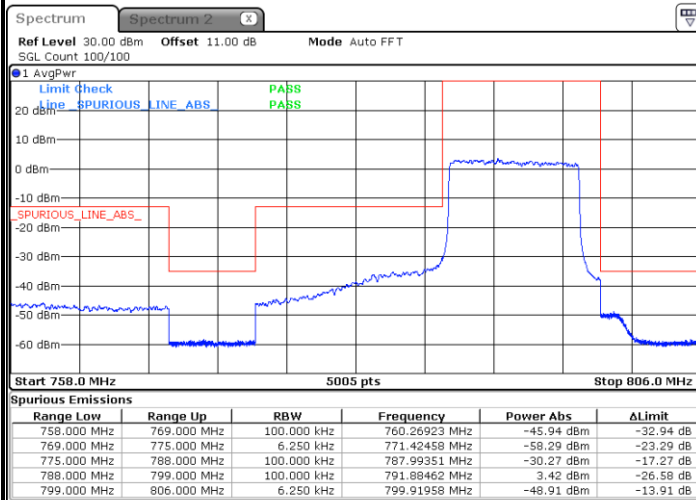
Band Edge / Full RB



Date: 20.NOV.2024 14:52:11

LTE Band 14 / 10MHz / 64QAM

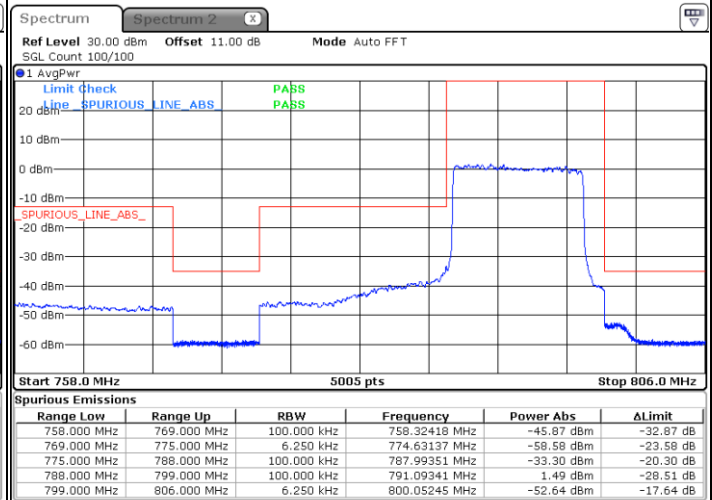
Band Edge / Full RB



Date: 20.NOV.2024 14:53:19

LTE Band 14 / 10MHz / 256QAM

Band Edge / Full RB



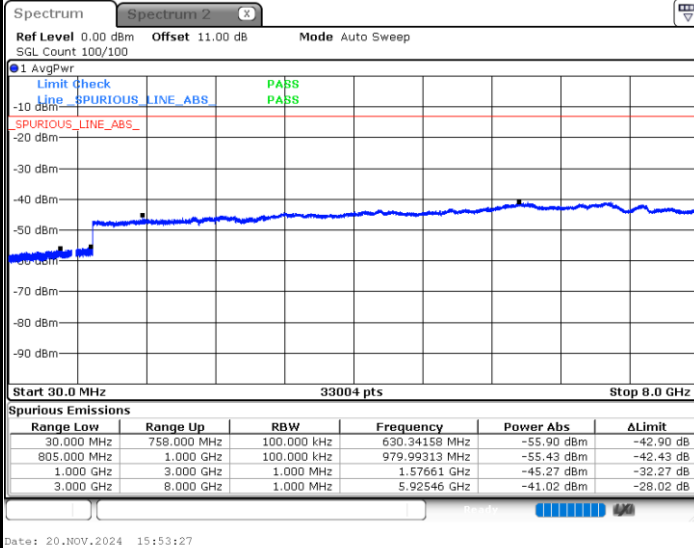
Date: 20.NOV.2024 14:54:26



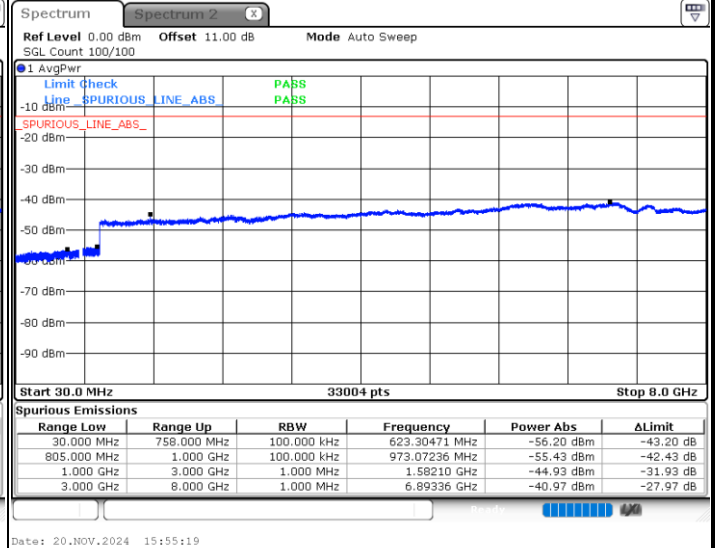
Conducted Spurious Emission

LTE Band 14 / 5MHz

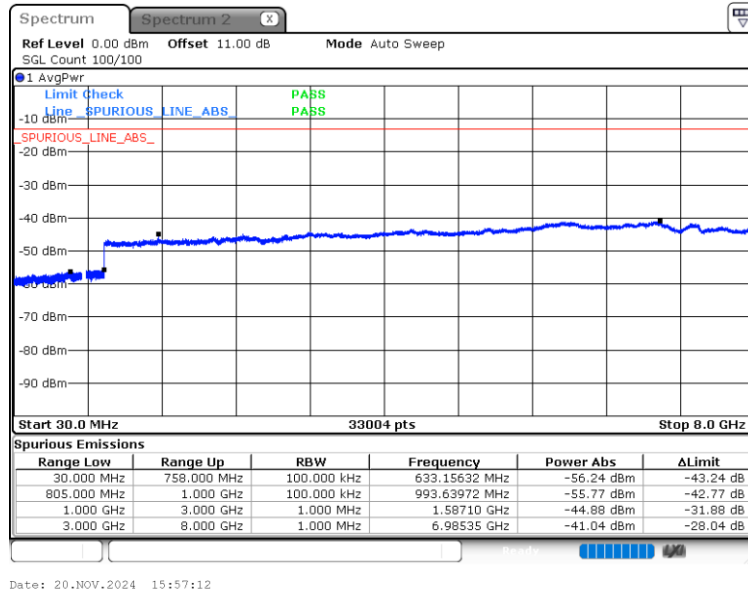
Lowest Channel / QPSK



Middle Channel / QPSK



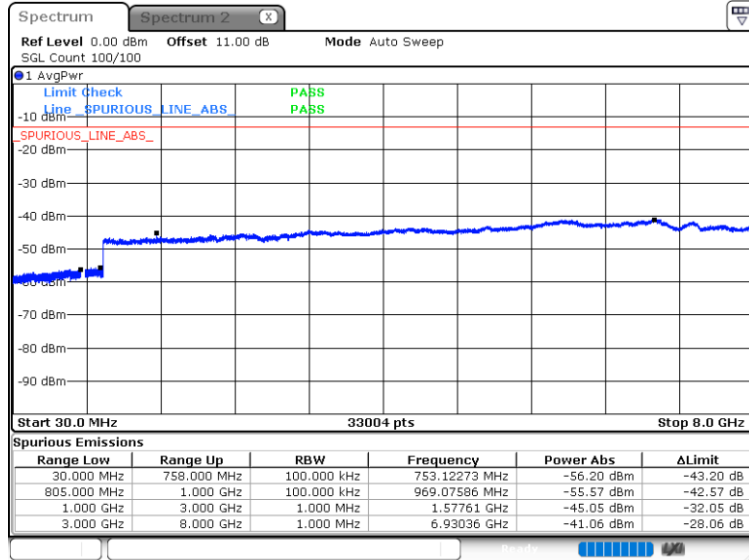
Highest Channel / QPSK



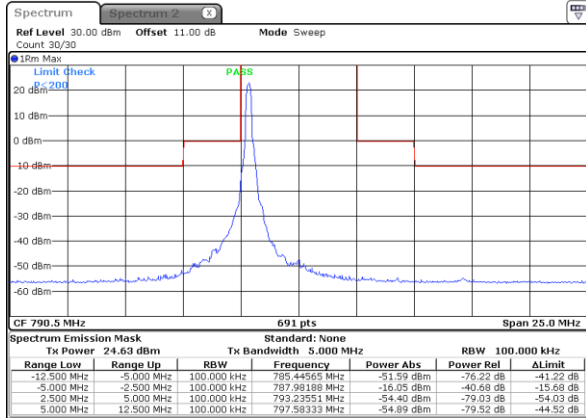


LTE Band 14 / 10MHz

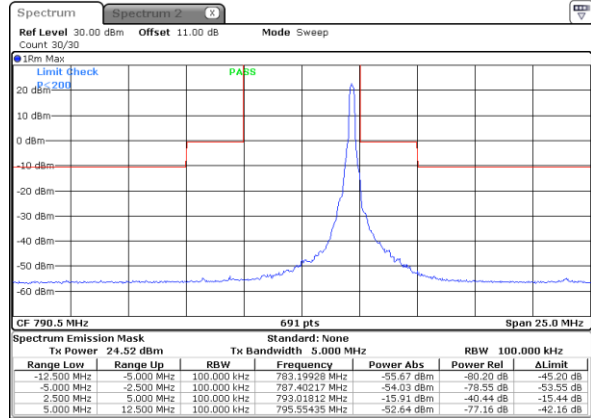
Middle Channel / QPSK



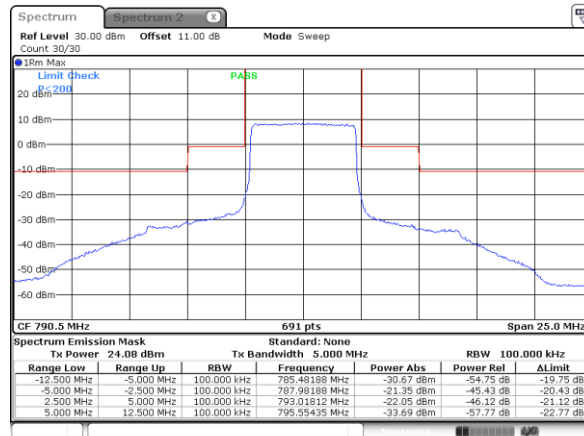
Date: 20.NOV.2024 15:59:10

**Mask****LTE Band 14 / 5MHz / QPSK****Lowest Channel / 1RB**

Date: 20.NOV.2024 15:00:11



Date: 20.NOV.2024 15:04:44

Lowest Channel / Full RB

Date: 20.NOV.2024 14:55:39



Spectrum

Ref Level 30.00 dBm Offset 11.00 dB Mode Sweep

Count 50/30

18m Max

Limit Check

200

PASS

CF 790.5 MHz

691 pts

Span 25.0 MHz

Spectrum Emission Mask

Standard: None

Tx Power 23.84 dBm

Tx Bandwidth 5.000 MHz

RBW 100.000 kHz

Range Low	Range High	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-12.500 MHz	-5.000 MHz	100.000 kHz	784.03261 MHz	-41.09 dBm	-64.94 dB	-29.94 dB
-5.000 MHz	-2.500 MHz	100.000 kHz	787.98189 MHz	-16.15 dBm	-39.99 dB	-14.99 dB
-2.500 MHz	5.000 MHz	100.000 kHz	794.79348 MHz	-46.80 dBm	-70.64 dB	-45.64 dB
5.000 MHz	12.500 MHz	100.000 kHz	796.93116 MHz	-47.02 dBm	-70.86 dB	-35.86 dB

Spectrum **Spectrum 2** **3**

Ref Level 30.00 dBm Offset 11.00 dB Mode Sweep

Count 30/30

100 MHz

Limit Check -5.200 dBm

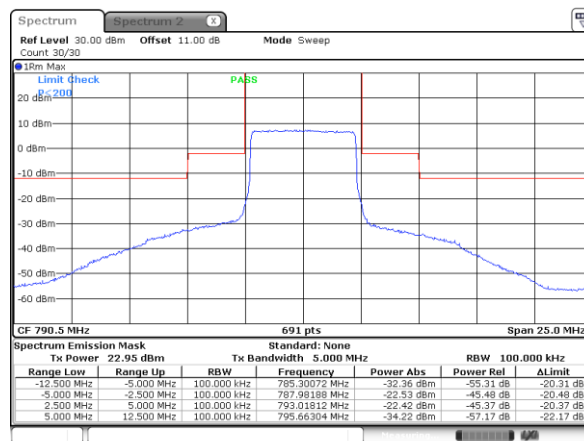
PASS

CF 790.5 MHz 691 pts Span 25.0 MHz

Spectrum Emission Mask Standard: None

Tx Power 23.70 dBm		Tx Bandwidth 5.000 MHz		RBW 100.000 kHz		
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ALimit
-12.500 MHz	-5.000 MHz	100.000 kHz	795.11957 MHz	-45.89 dBm	-69.59 dB	-34.59 dB
-5.000 MHz	-2.500 MHz	100.000 kHz	796.27899 MHz	-43.67 dBm	-67.37 dB	-42.37 dB
2.500 MHz	5.000 MHz	100.000 kHz	793.01812 MHz	-16.31 dBm	-40.01 dB	-15.01 dB
5.000 MHz	12.500 MHz	100.000 kHz	797.00362 MHz	-42.77 dBm	-66.47 dB	-31.47 dB

Lowest Channel / Full RB

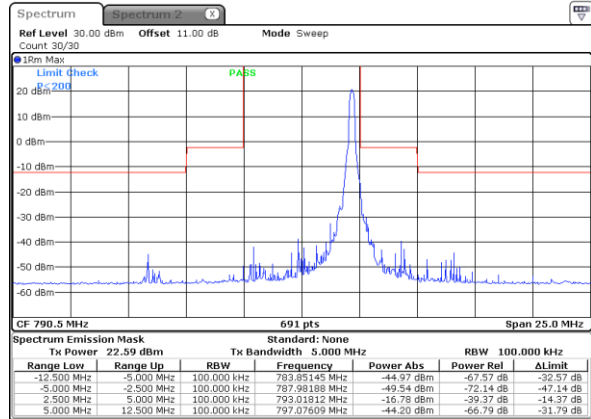
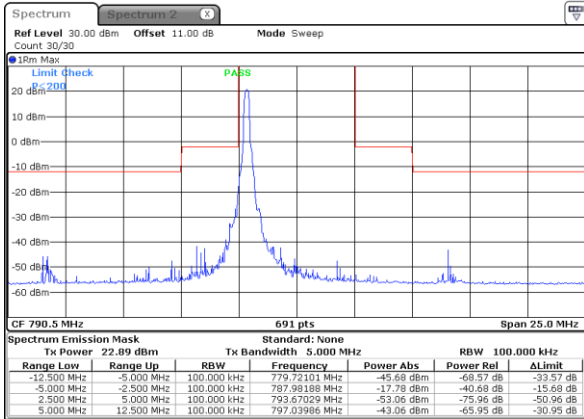


Page Number : A5-18 of 30

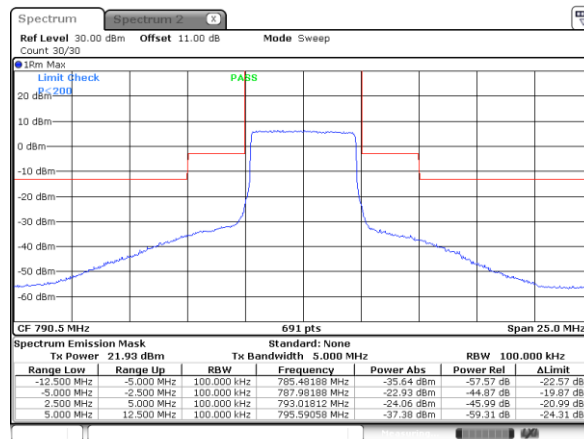


LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB



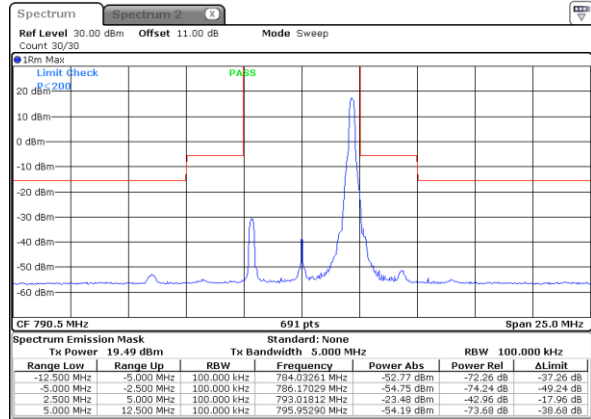
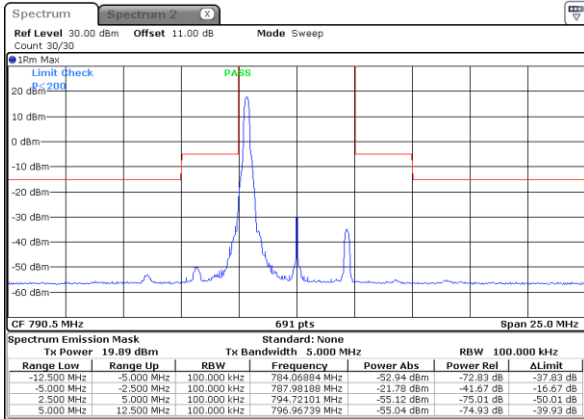
Lowest Channel / Full RB





LTE Band 14 / 5MHz / 256QAM

Lowest Channel / 1RB



Lowest Channel / Full RB

