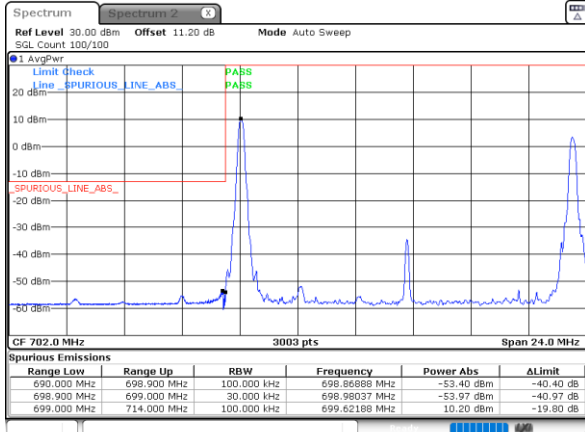




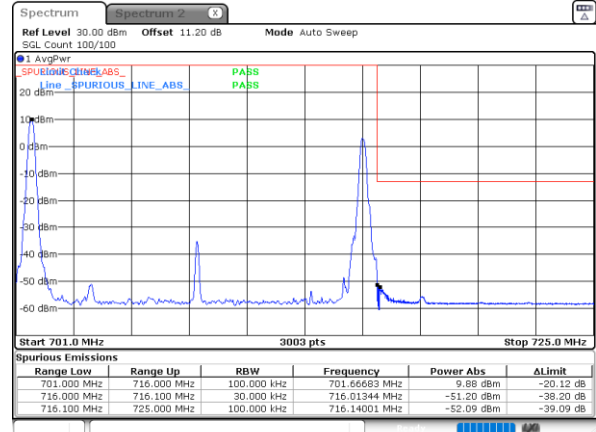
LTE Band 12B / 5MHz+10MHz

64QAM

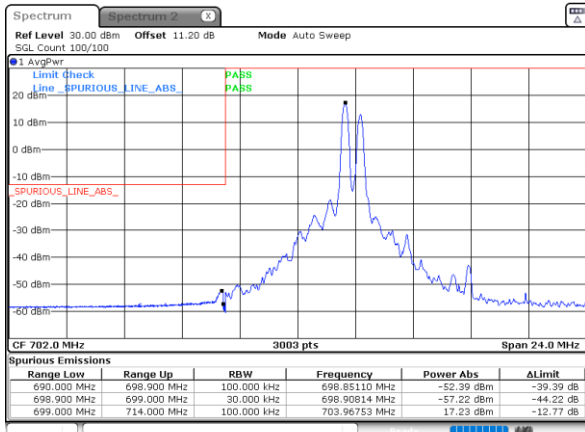
Lowest Band Edge / 1RB0 and 1RB49



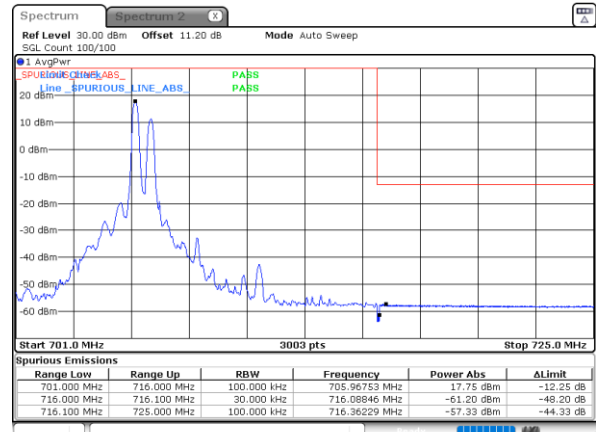
Highest Band Edge / 1RB0 and 1RB49



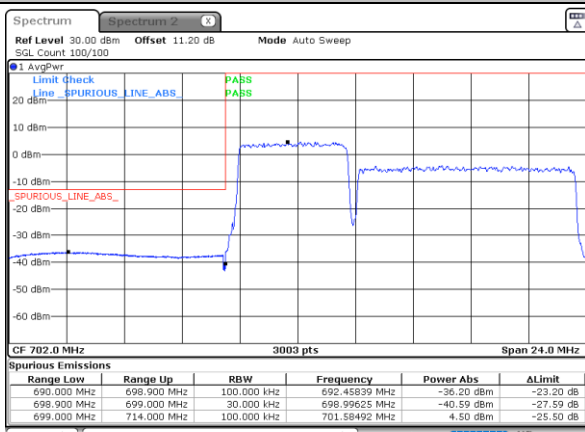
Lowest Band Edge / 1RB24 and 1RB0



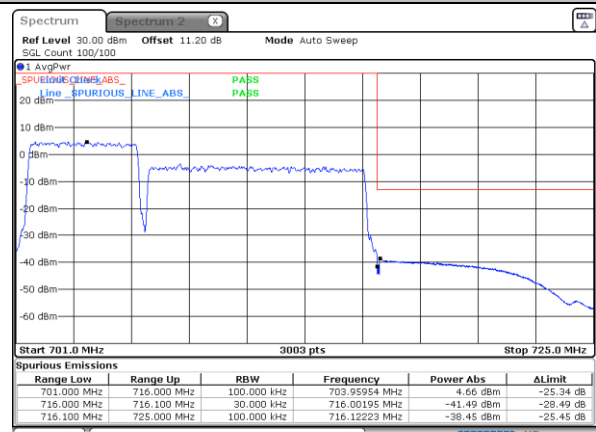
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

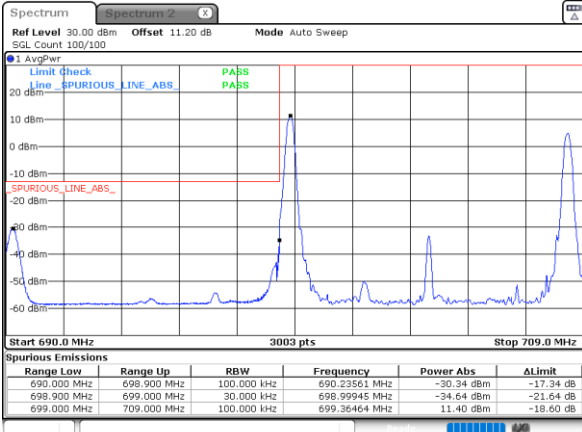




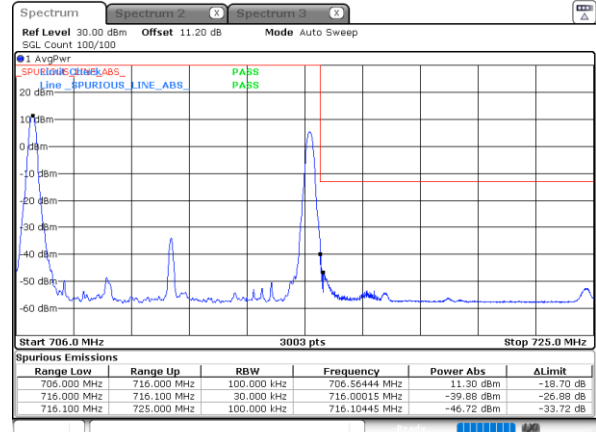
LTE Band 12B / 5MHz+5MHz

256QAM

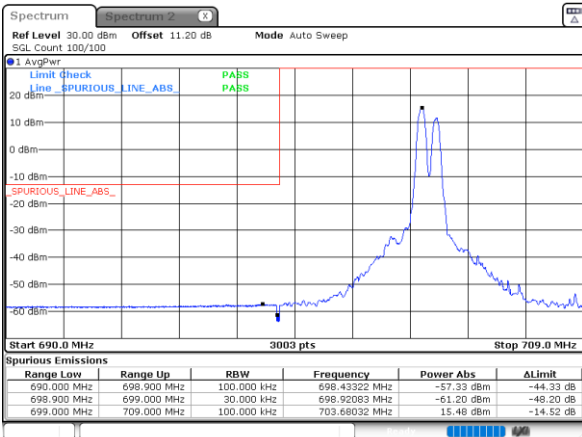
Lowest Band Edge / 1RB0 and 1RB24



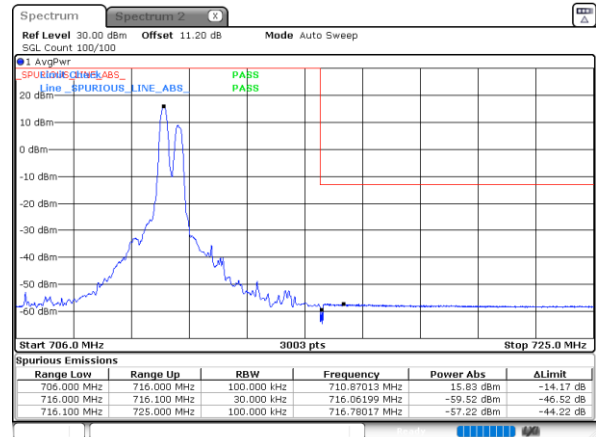
Highest Band Edge / 1RB0 and 1RB24



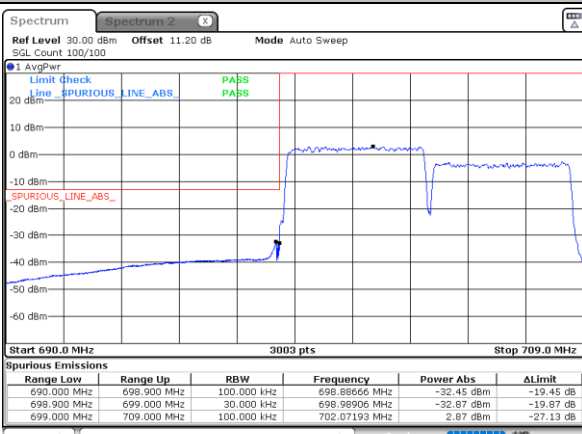
Lowest Band Edge / 1RB24 and 1RB0



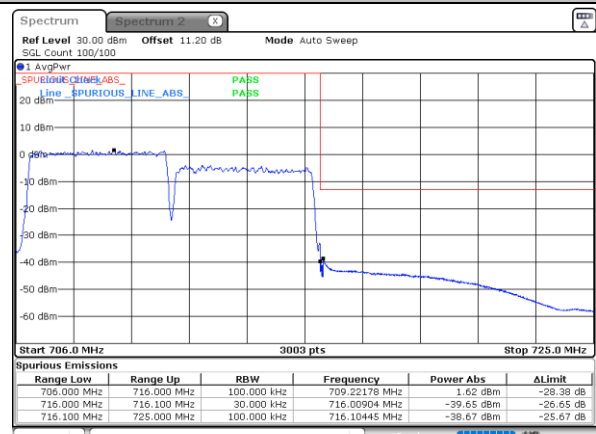
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

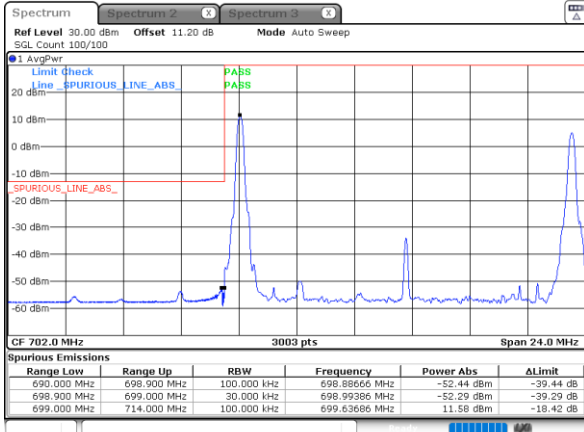




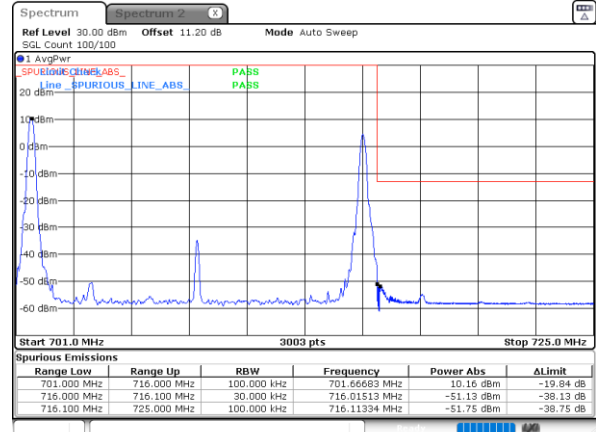
LTE Band 12B / 5MHz+10MHz

256QAM

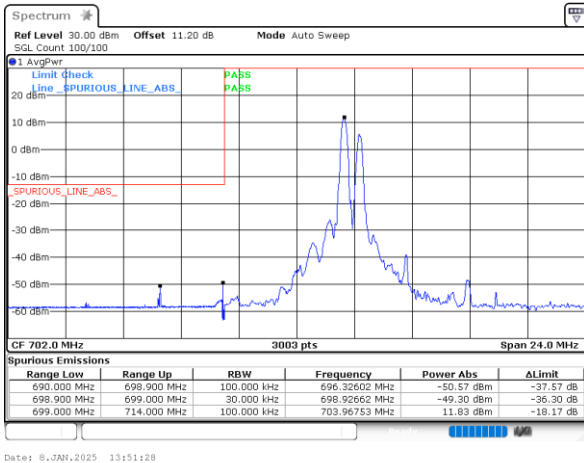
Lowest Band Edge / 1RB0 and 1RB49



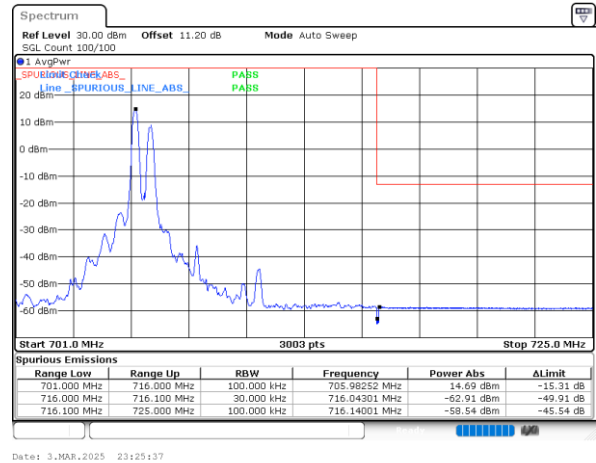
Highest Band Edge / 1RB0 and 1RB49



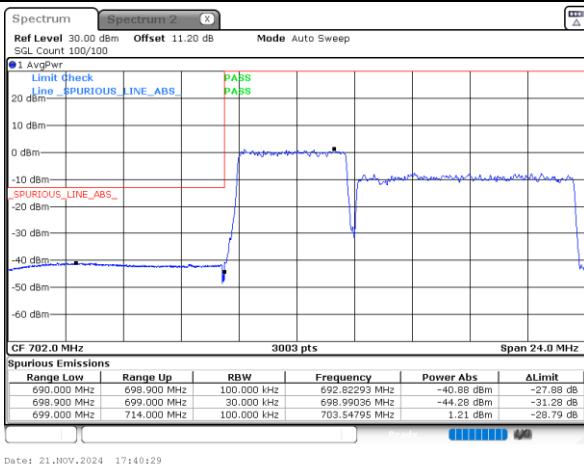
Lowest Band Edge / 1RB24 and 1RB0



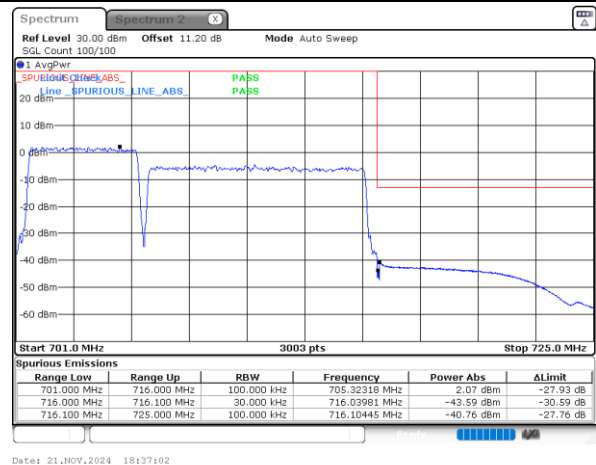
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





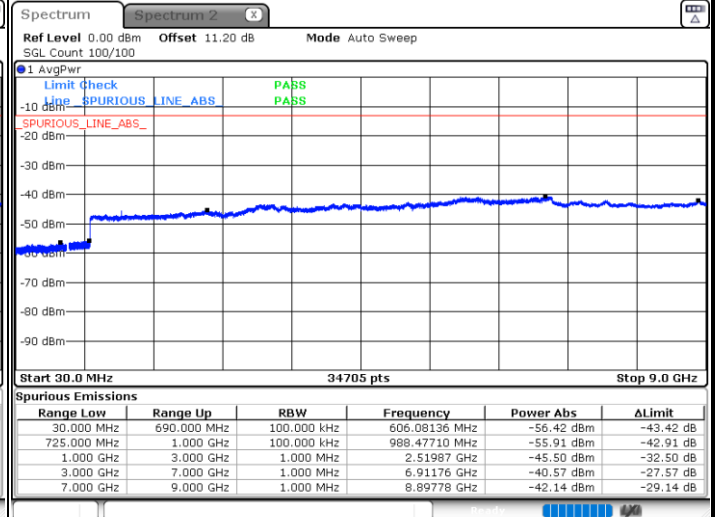
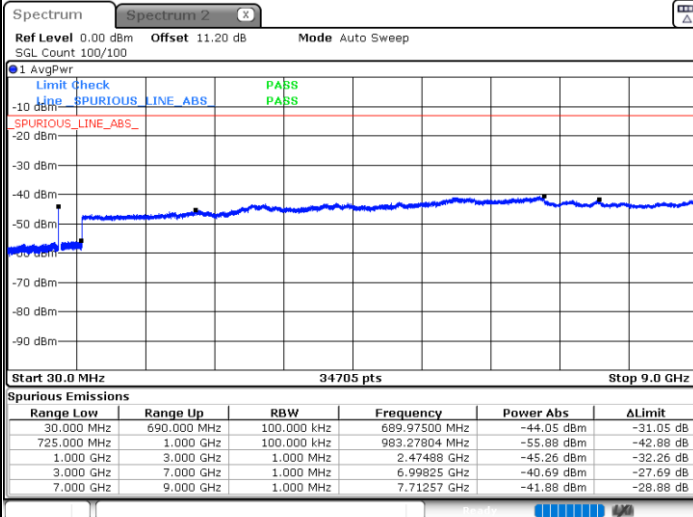
Conducted Spurious Emission

LTE Band 12B / 5MHz+5MHz

QPSK

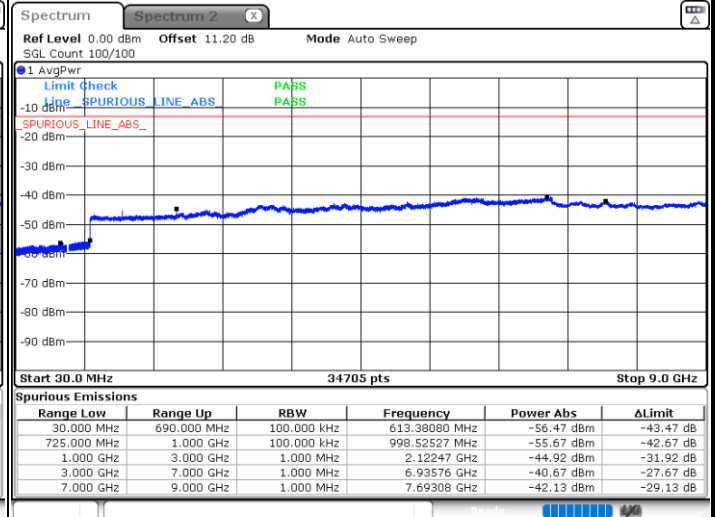
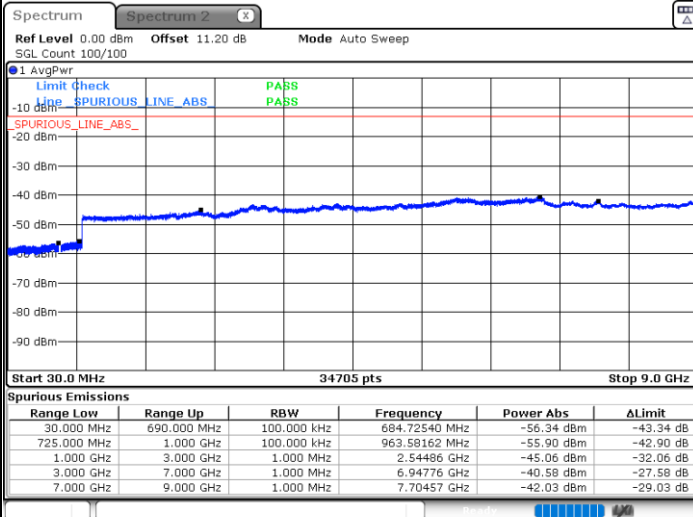
Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB24 and 1RB0



MiddleChannel / 1RB0 and 1RB24

Middle Channel / 1RB24 and 1RB0



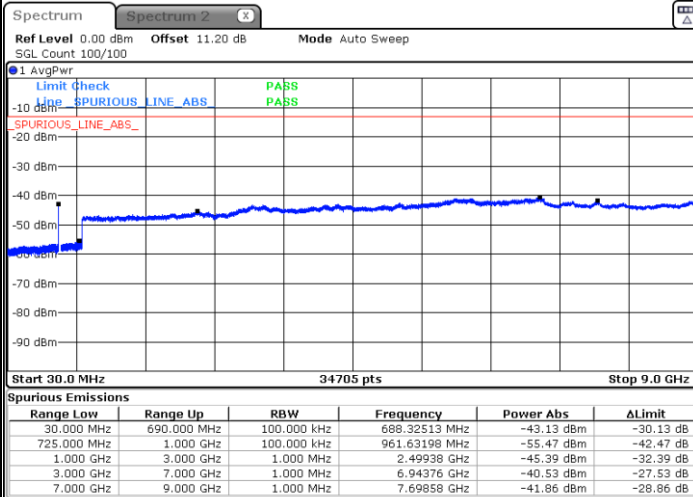


LTE Band 66B / 5MHz+5MHz

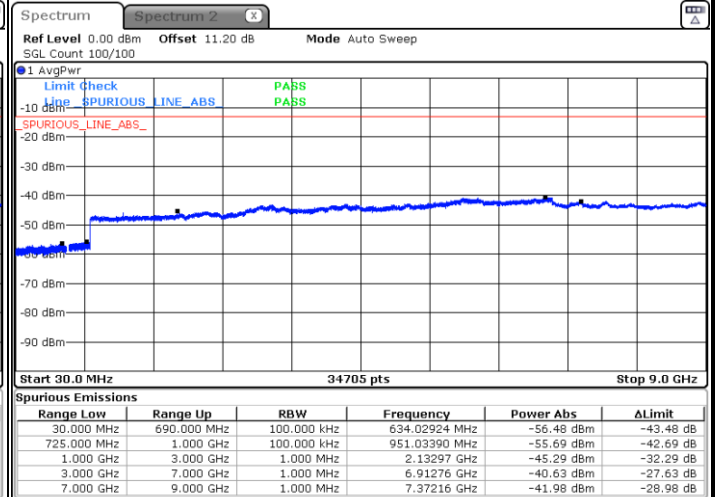
QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB24 and 1RB0



Date: 21.NOV.2024 18:45:36



Date: 21.NOV.2024 18:44:06

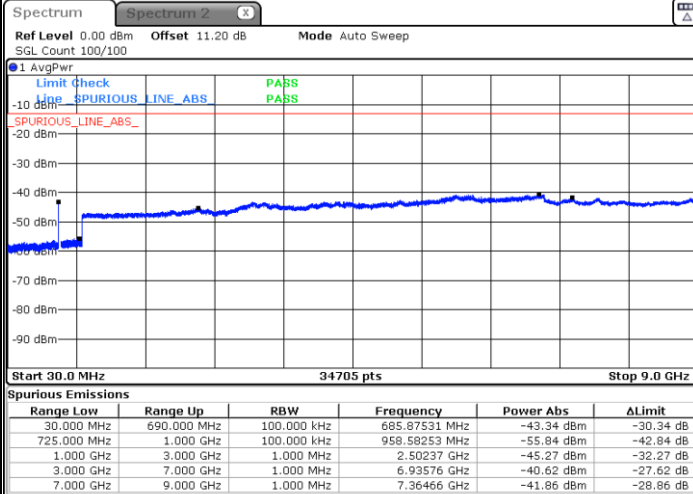


LTE Band 12B / 5MHz+10MHz

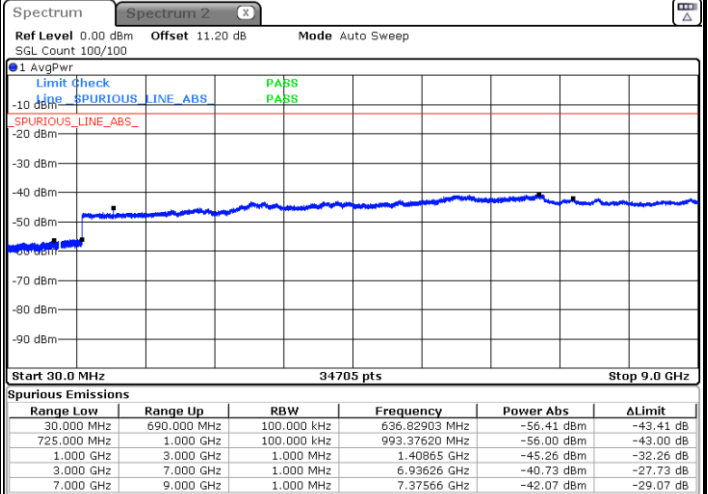
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB24 and 1RB0



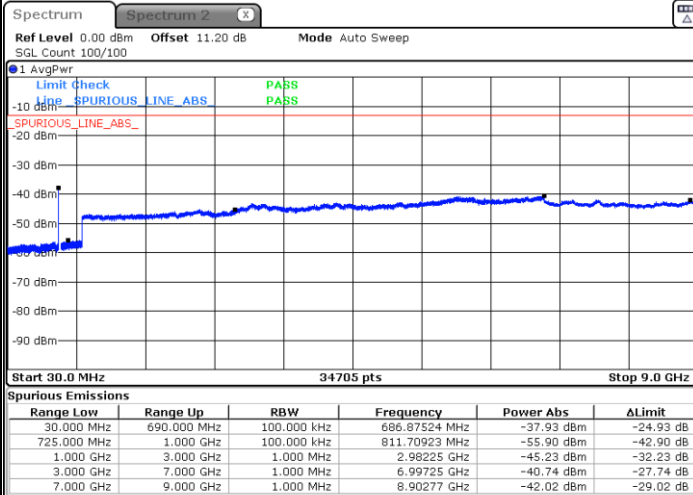
Date: 21.NOV.2024 18:51:50



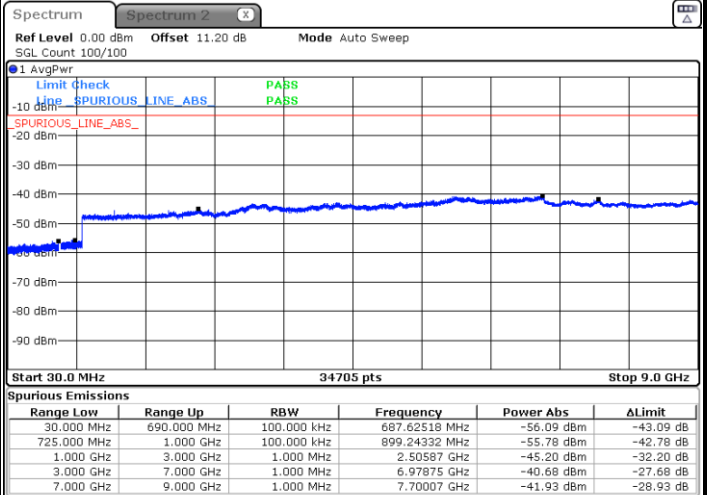
Date: 21.NOV.2024 18:50:22

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB24 and 1RB0



Date: 21.NOV.2024 18:56:30



Date: 21.NOV.2024 18:57:58

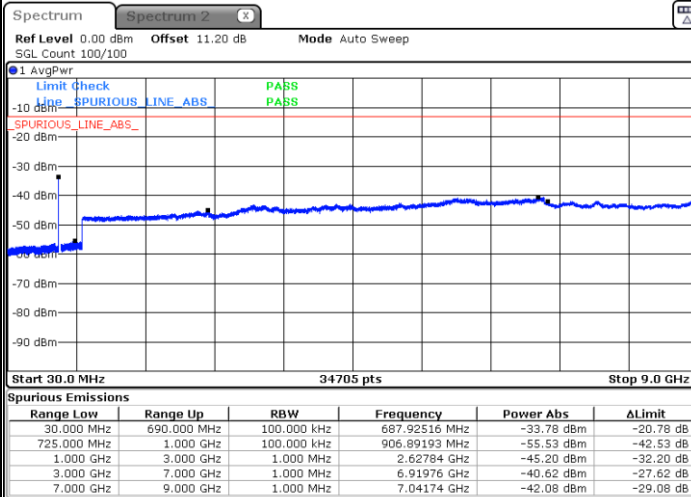


LTE Band 66B / 5MHz+10MHz

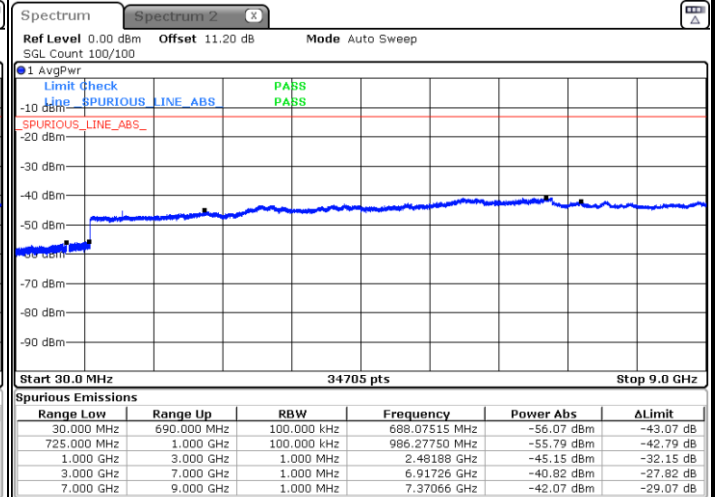
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB24 and 1RB0



Date: 21.NOV.2024 18:54:52



Date: 21.NOV.2024 18:53:24



LTE Band 13

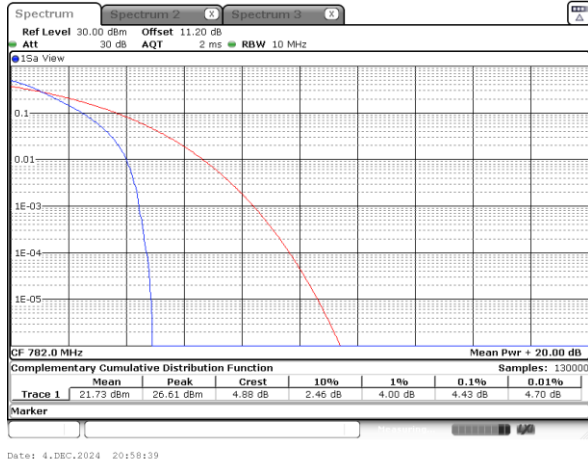
Peak-to-Average Ratio

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	4.43	5.57	6.29	6.49	PASS



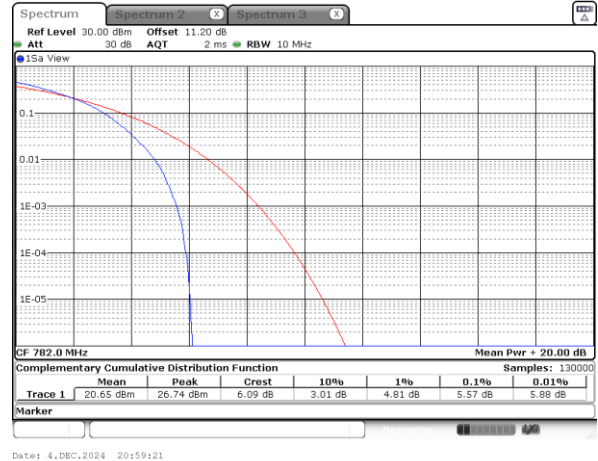
LTE Band 13 / 10MHz / QPSK

Middle Channel / Full RB



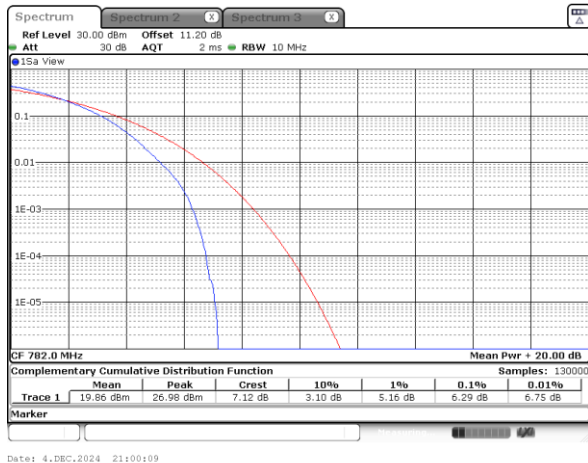
LTE Band 13 / 10MHz / 16QAM

Middle Channel / Full RB



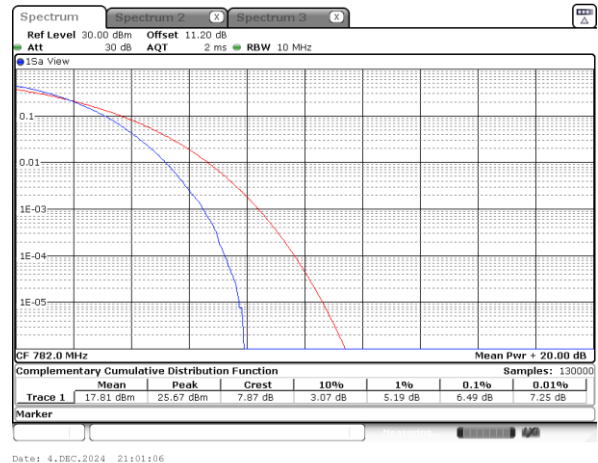
LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB



LTE Band 13 / 10MHz / 256QAM

Middle Channel / Full RB



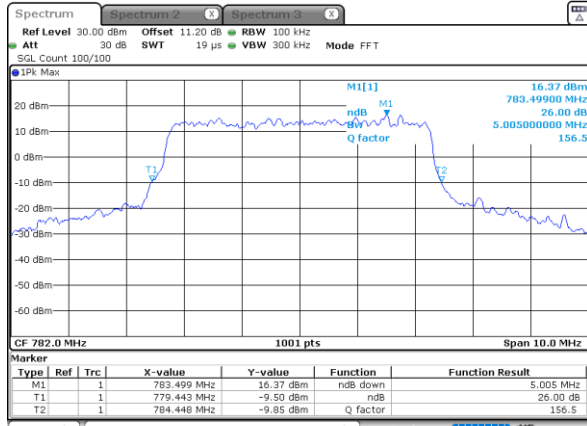
**26dB Bandwidth**

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	-	-	-	-	5.00	5.07	9.83	9.76	-	-	-	-
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	-	-	-	-	4.98	5.08	9.78	9.65	-	-	-	-



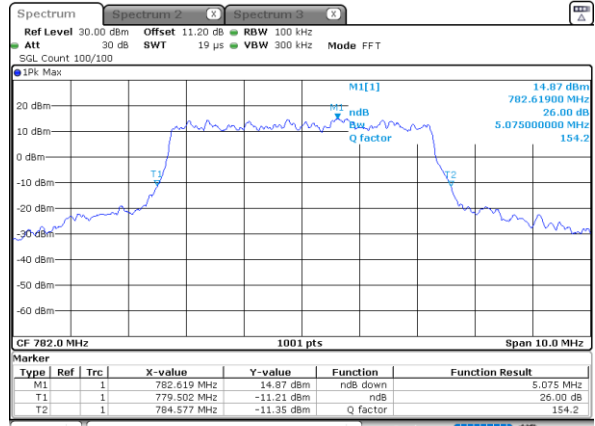
LTE Band 13

Middle Channel / 5MHz / QPSK



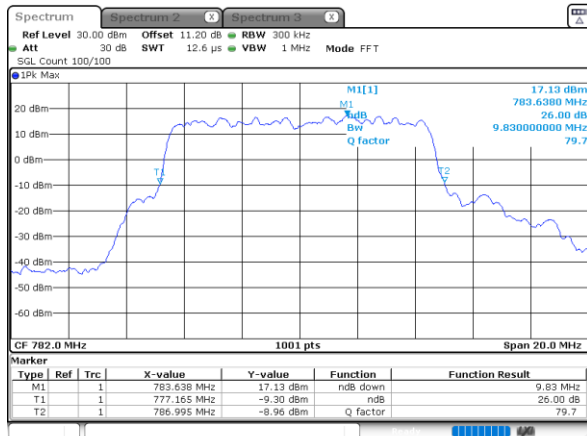
Date: 4.DEC.2024 20:53:04

Middle Channel / 5MHz / 16QAM



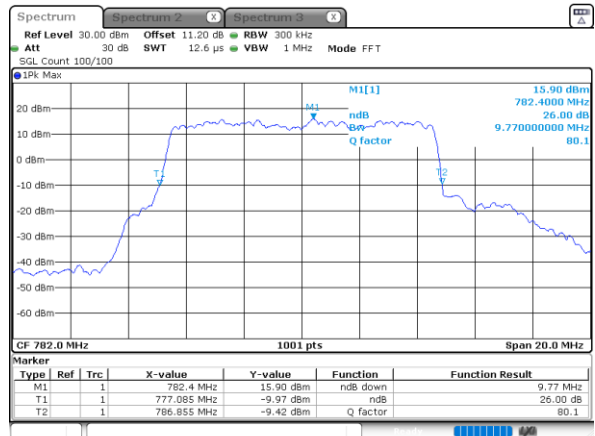
Date: 4.DEC.2024 20:53:49

Middle Channel / 10MHz / QPSK



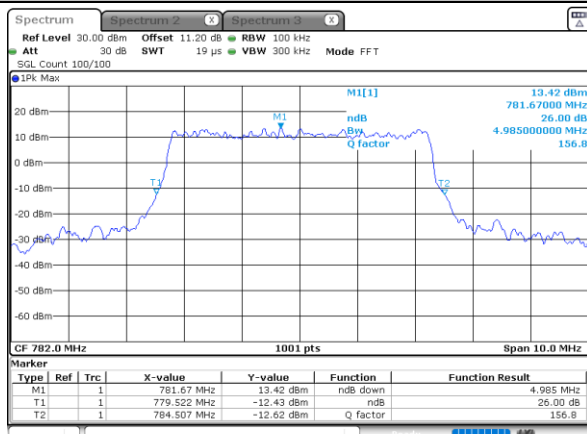
Date: 4.DEC.2024 20:55:56

Middle Channel / 10MHz / 16QAM



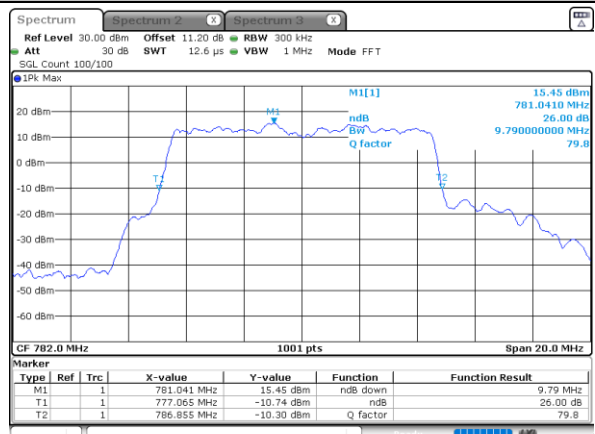
Date: 4.DEC.2024 20:56:34

Middle Channel / 5MHz / 64QAM



Date: 4.DEC.2024 20:54:30

Middle Channel / 10MHz / 64QAM

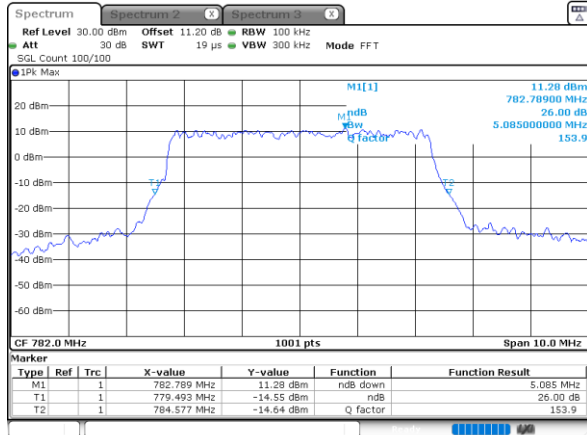


Date: 4.DEC.2024 20:57:18



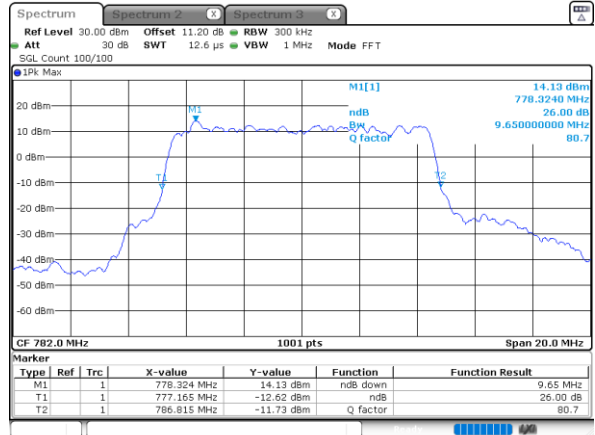
LTE Band 13

Middle Channel / 5MHz / 256QAM



Date: 4.DEC.2024 20:55:10

Middle Channel / 10MHz / 256QAM



Date: 4.DEC.2024 20:57:57

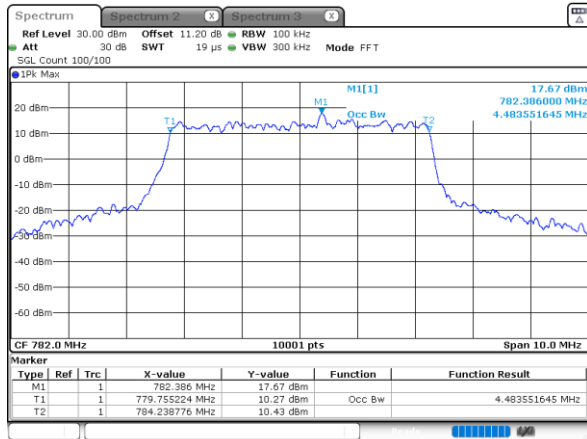
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.50	9.01	9.03	-	-	-	-
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	-	-	-	-	4.47	4.49	9.05	9.03	-	-	-	-

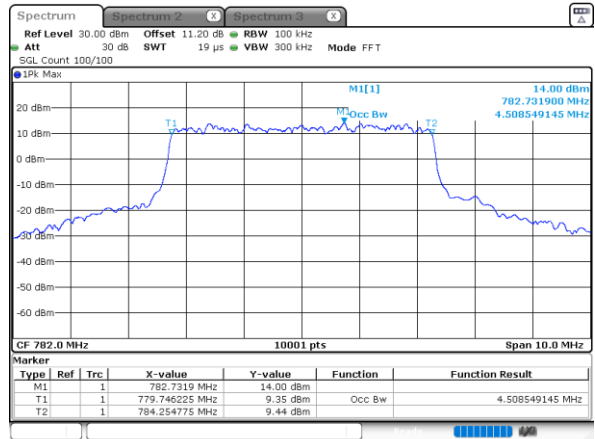


LTE Band 13

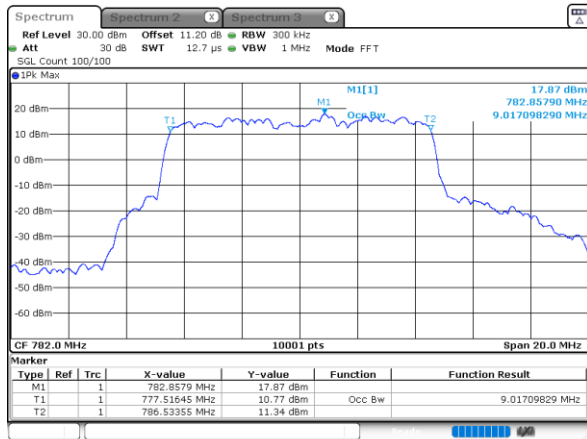
Middle Channel / 5MHz / QPSK



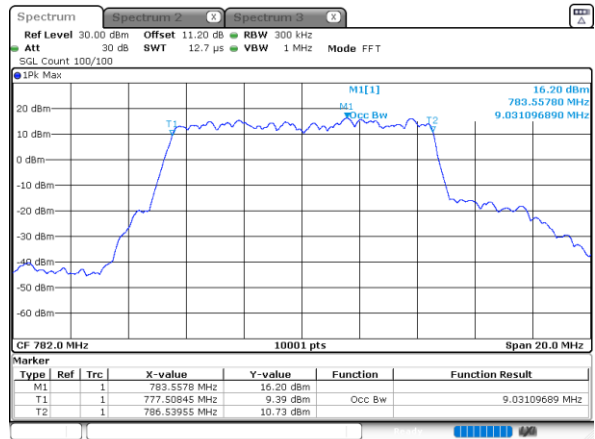
Middle Channel / 5MHz / 16QAM



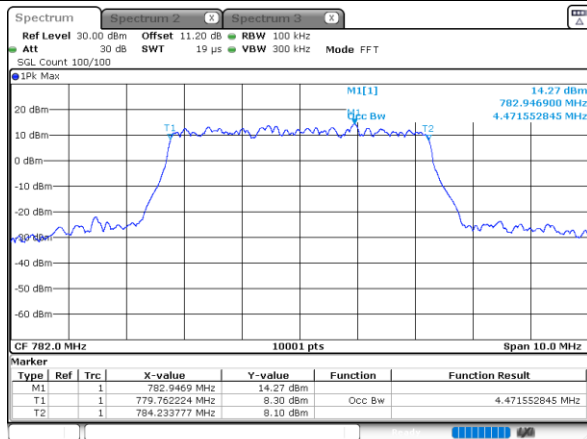
Middle Channel / 10MHz / QPSK



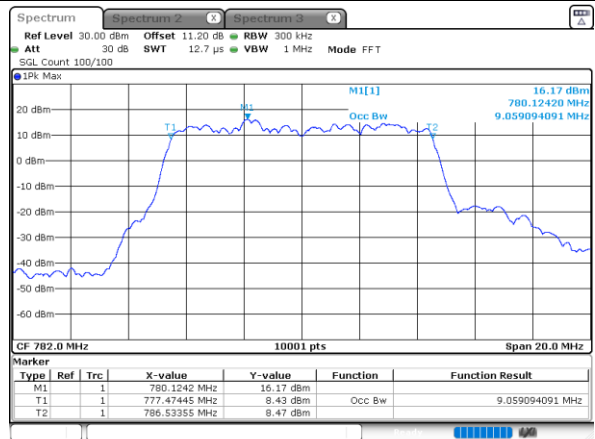
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



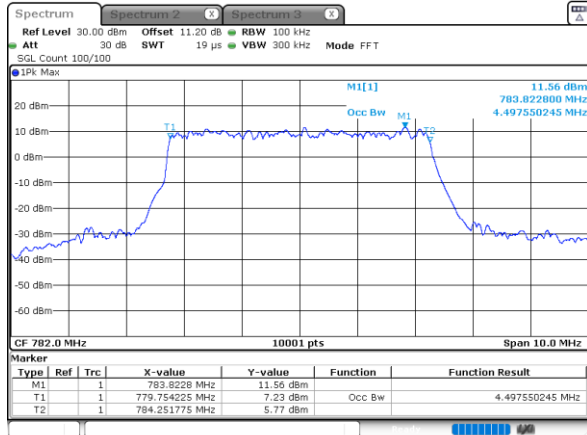
Middle Channel / 10MHz / 64QAM





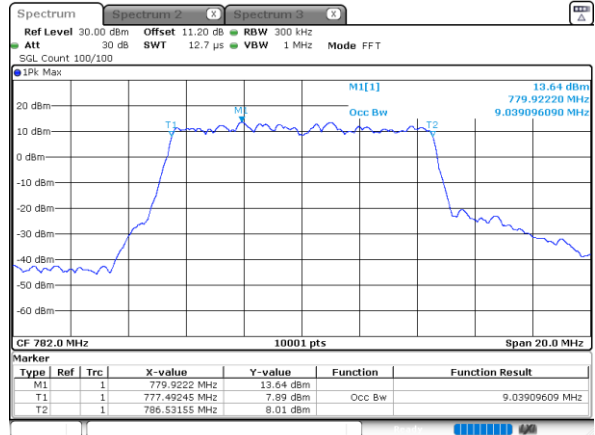
LTE Band 13

Middle Channel / 5MHz / 256QAM

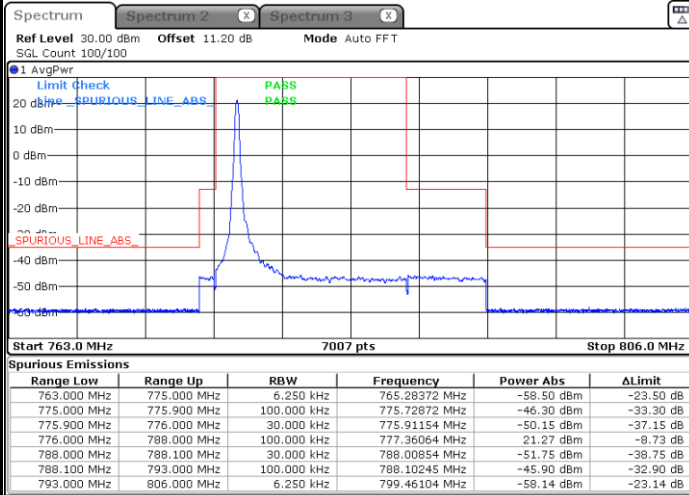
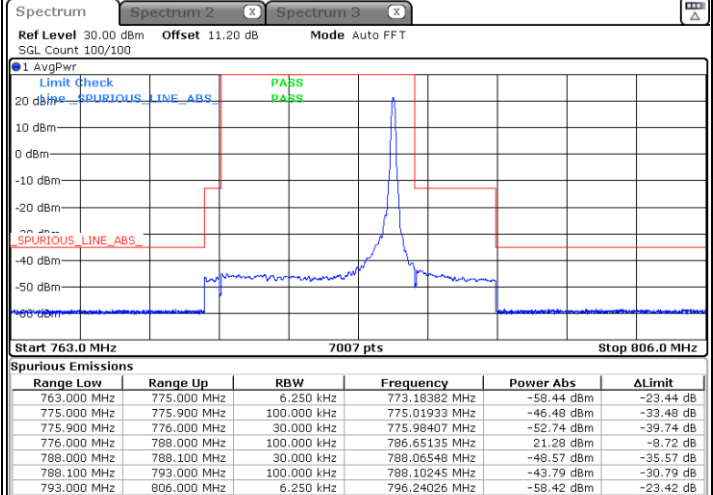
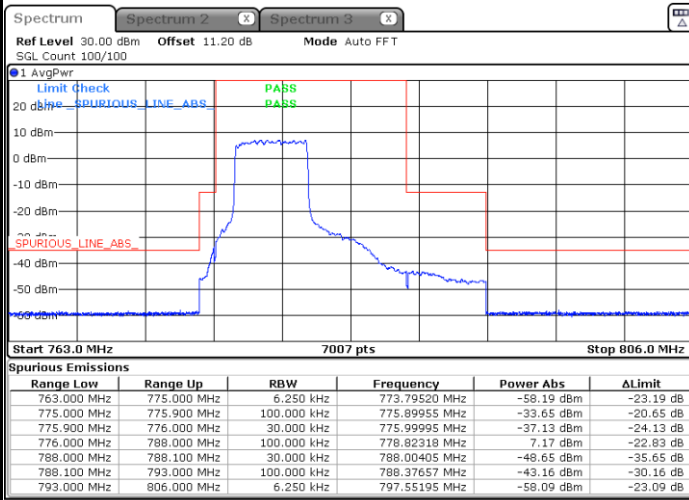
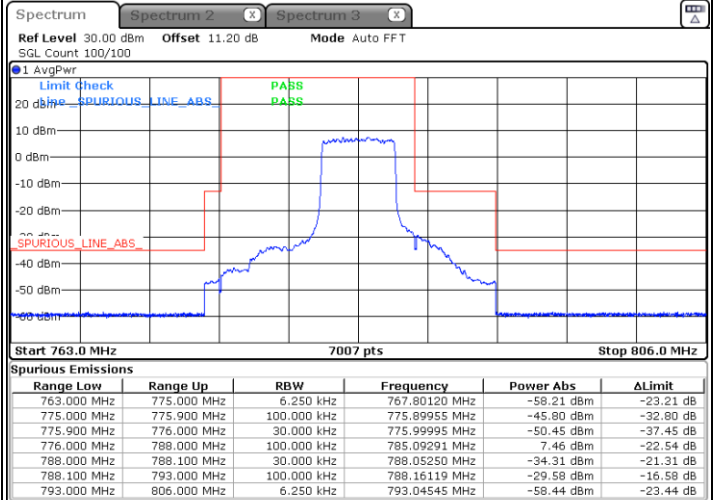


Date: 4.DEC.2024 20:49:17

Middle Channel / 10MHz / 256QAM



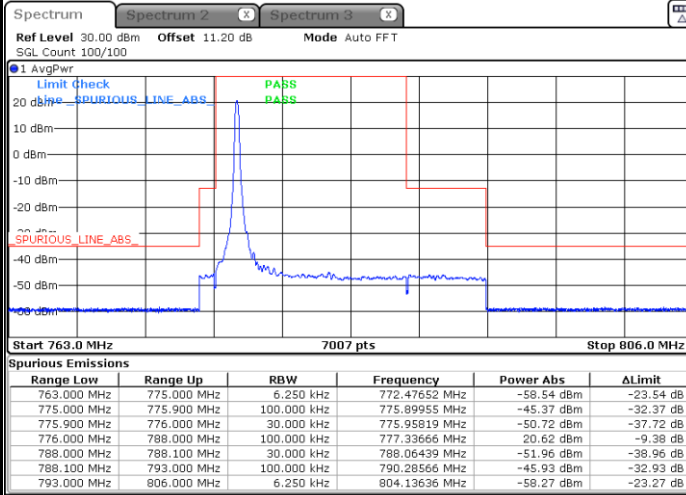
Date: 4.DEC.2024 20:52:12

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



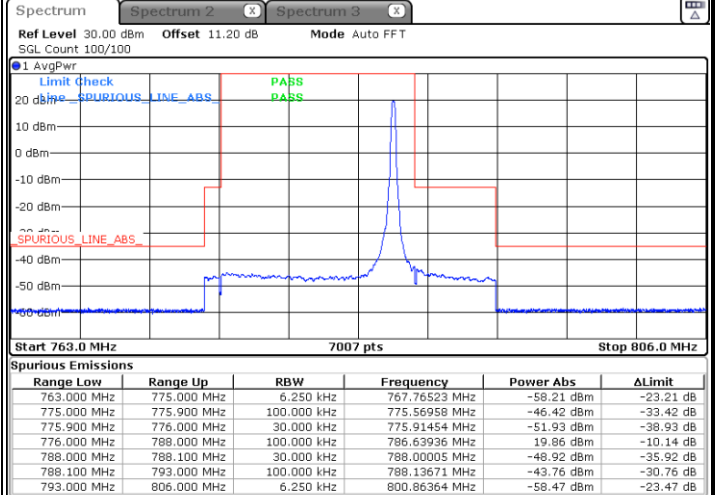
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



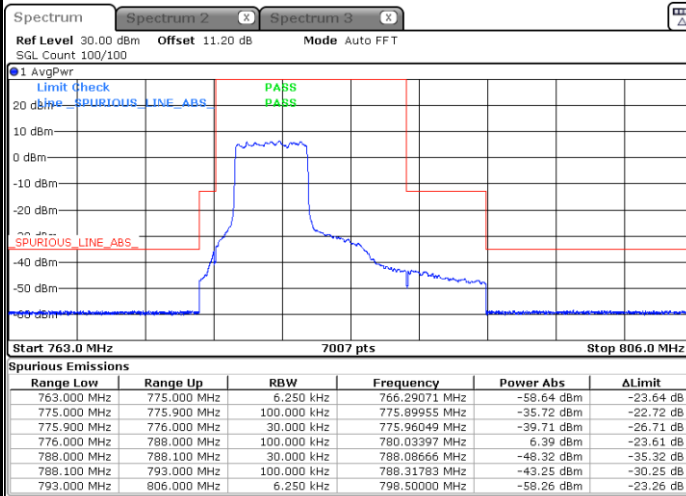
Date: 4.DEC.2024 20:29:15

Highest Band Edge / 1 RB



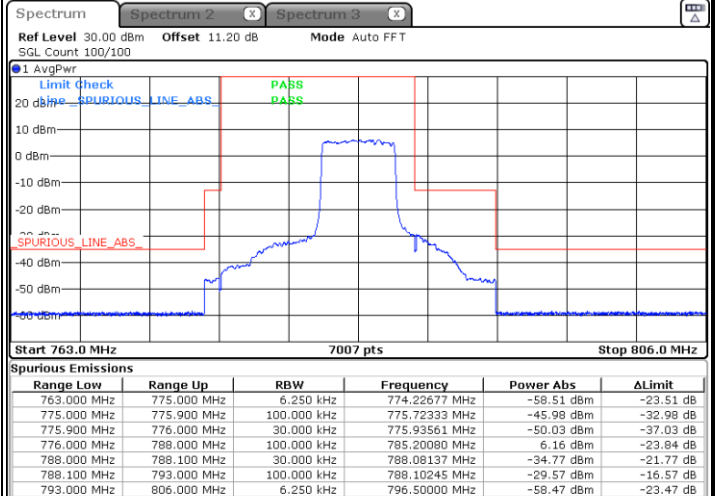
Date: 4.DEC.2024 20:38:59

Lowest Band Edge / Full RB



Date: 4.DEC.2024 20:24:13

Highest Band Edge / Full RB

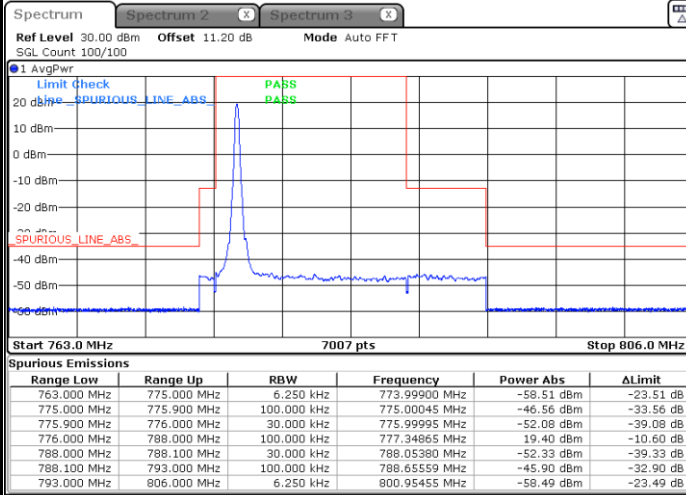


Date: 4.DEC.2024 20:34:10

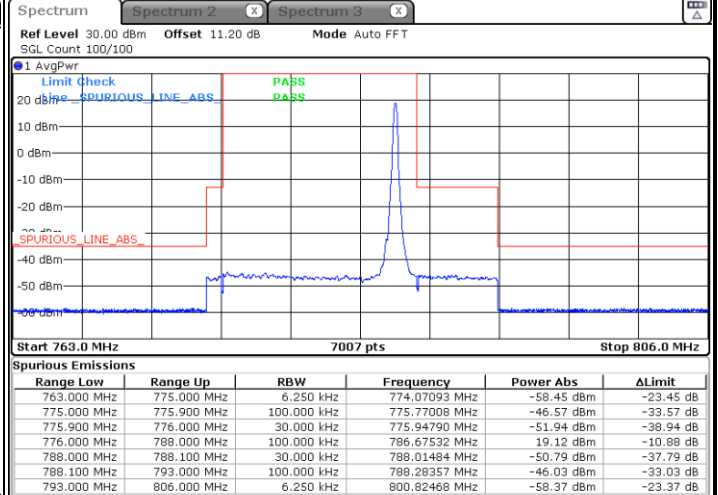


LTE Band 13 / 5MHz / 64QAM

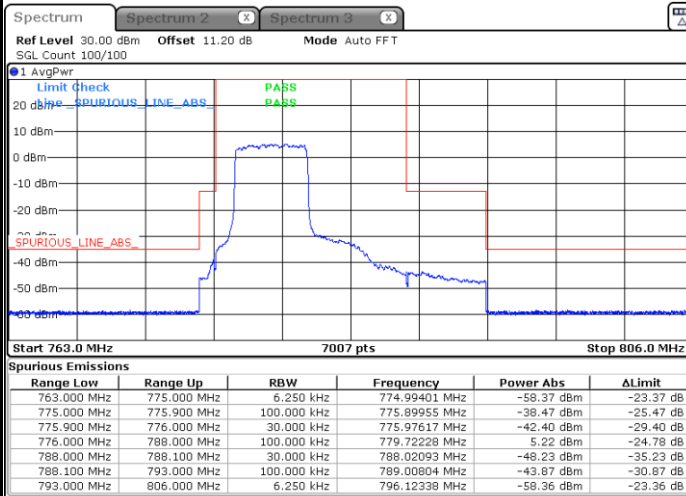
Lowest Band Edge / 1 RB



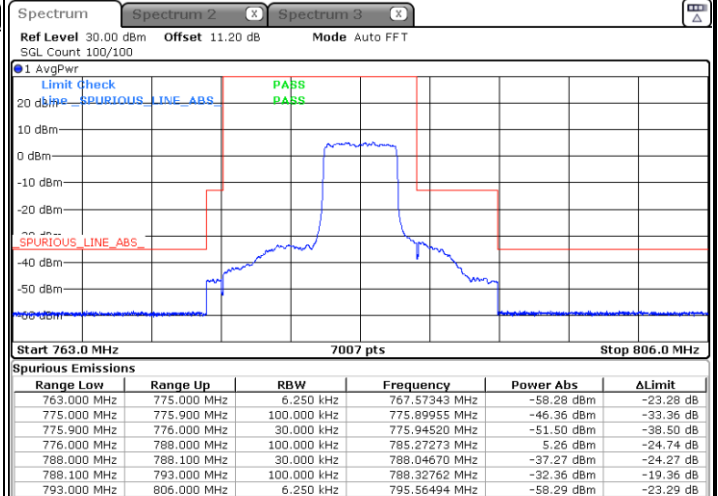
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



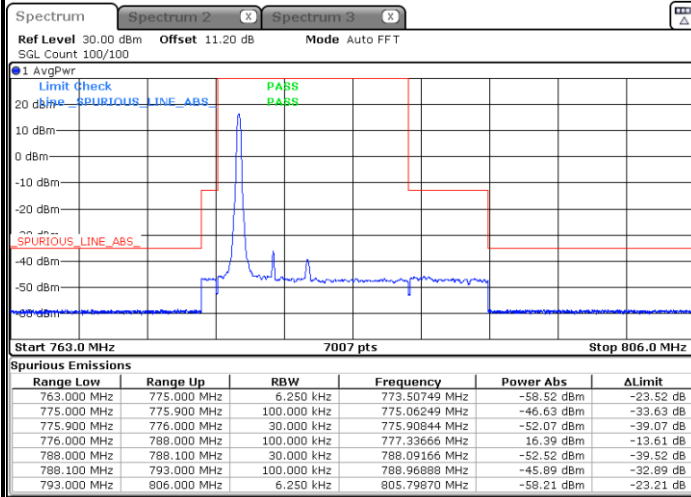
Highest Band Edge / Full RB



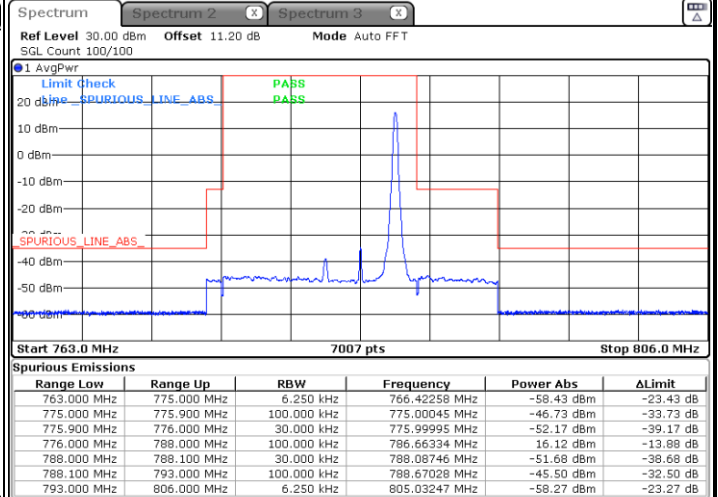


LTE Band 13 / 5MHz / 256QAM

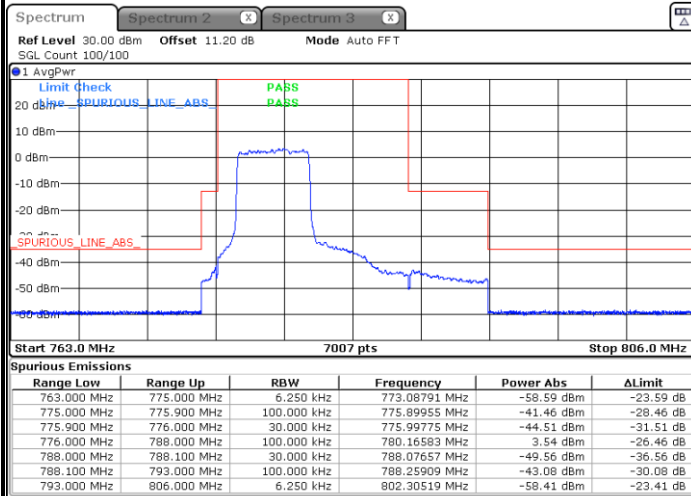
Lowest Band Edge / 1 RB



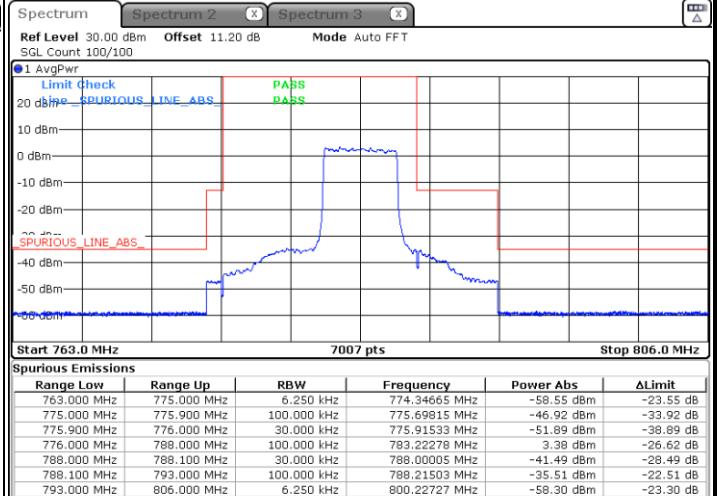
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



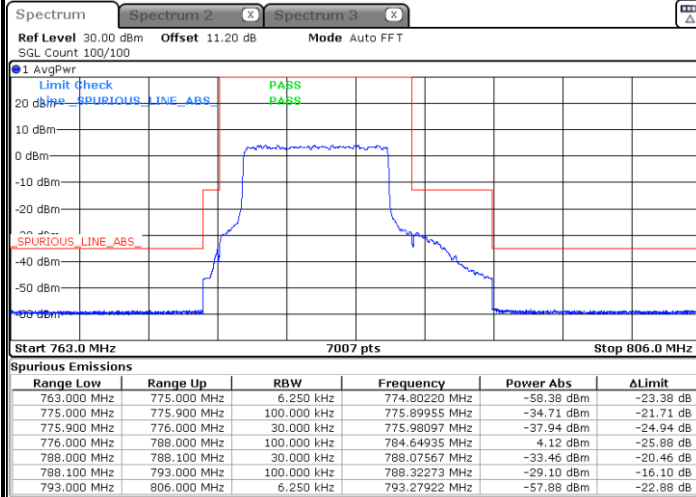
Highest Band Edge / Full RB





LTE Band 13 / 10MHz / QPSK

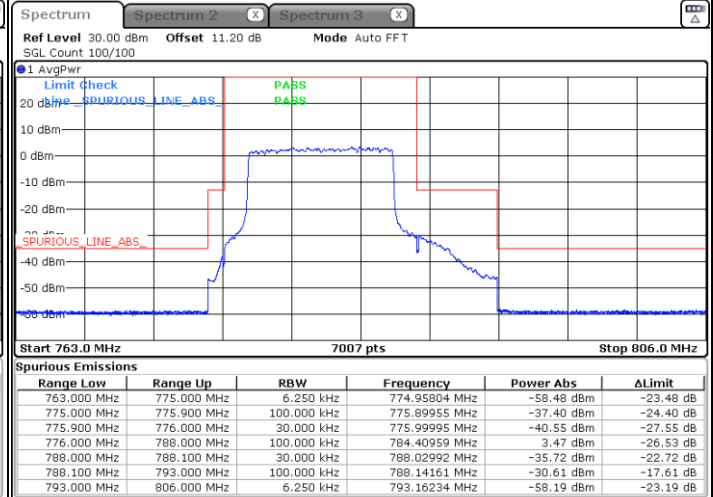
Band Edge / Full RB



Date: 4.DEC.2024 20:42:43

LTE Band 13 / 10MHz / 16QAM

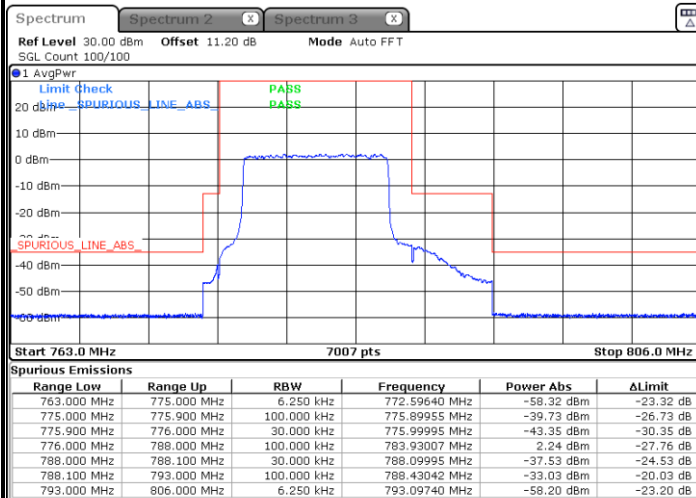
Band Edge / Full RB



Date: 4.DEC.2024 20:43:54

LTE Band 13 / 10MHz / 64QAM

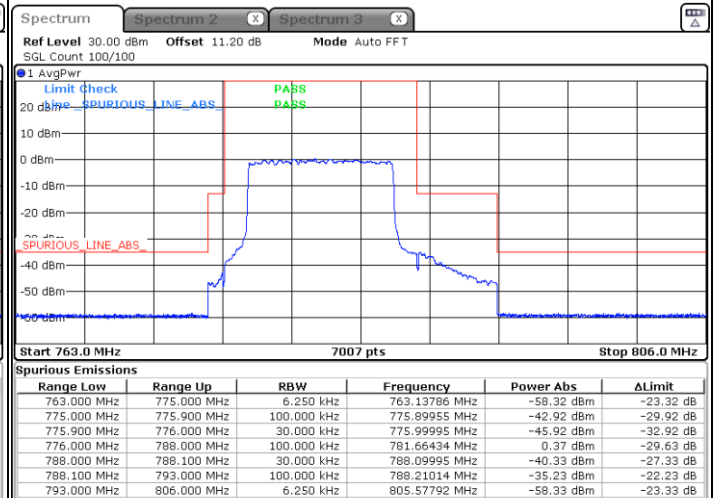
Band Edge / Full RB



Date: 4.DEC.2024 20:45:07

LTE Band 13 / 10MHz / 256QAM

Band Edge / Full RB



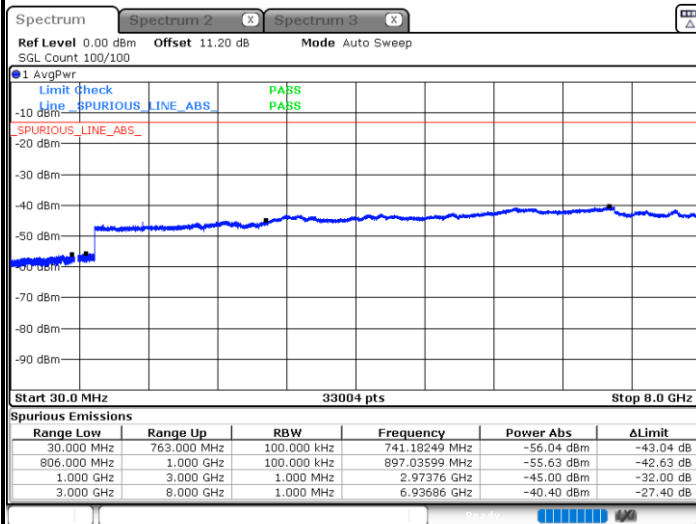
Date: 4.DEC.2024 20:46:19



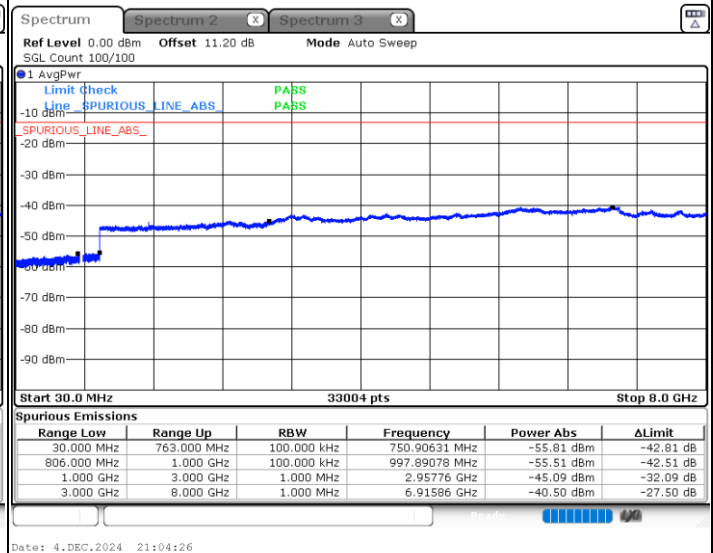
Conducted Spurious Emission

LTE Band 13 / 5MHz

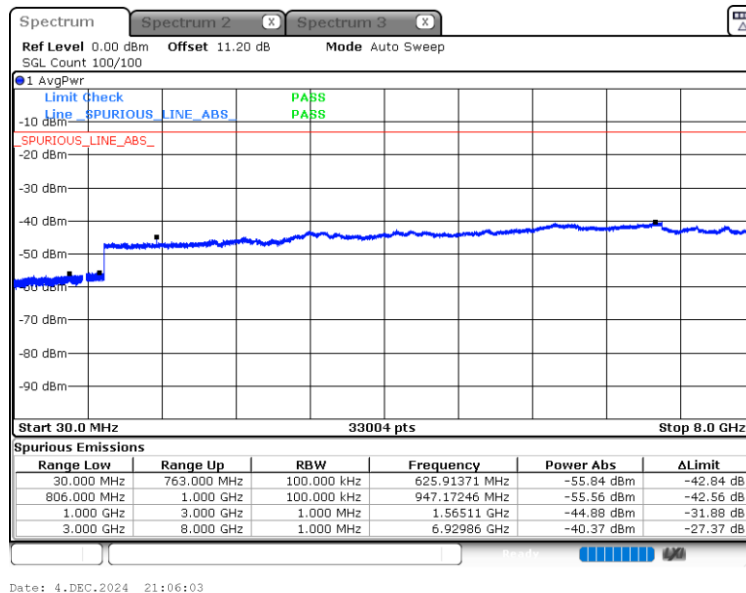
Lowest Channel / QPSK



Middle Channel / QPSK



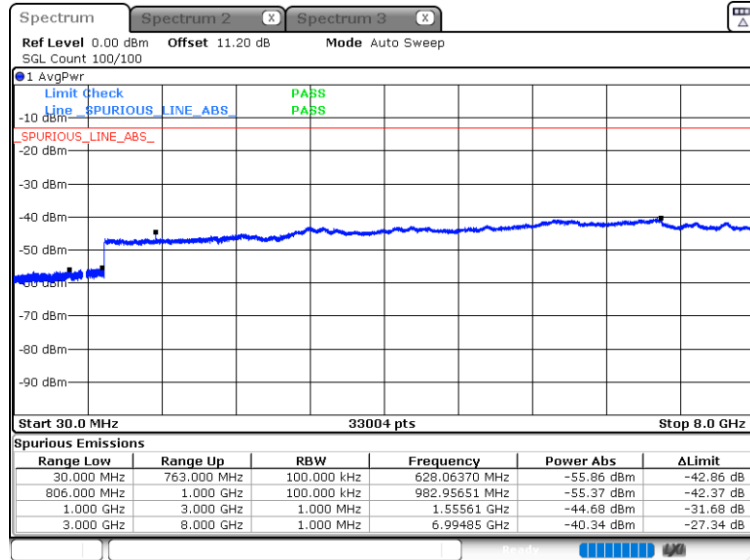
Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 4.DEC.2024 21:07:40

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	0.0088	PASS
40	Normal Voltage	0.0119	
30	Normal Voltage	0.0156	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0175	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0087	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0028	

Note:

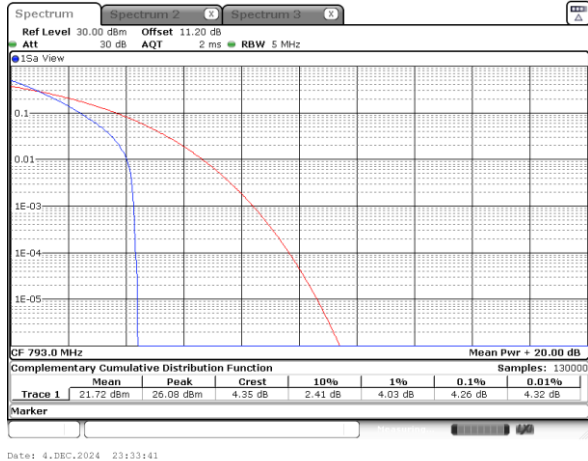
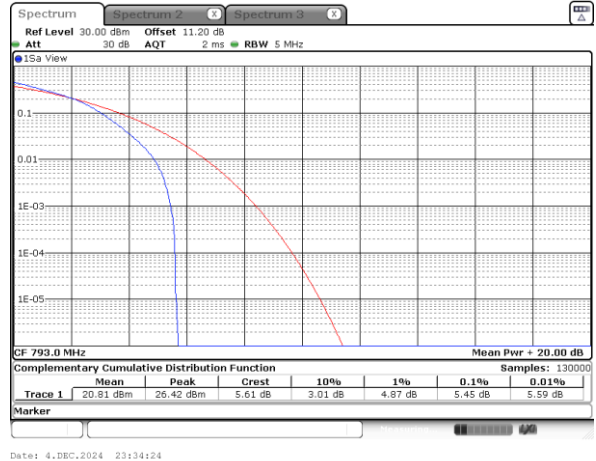
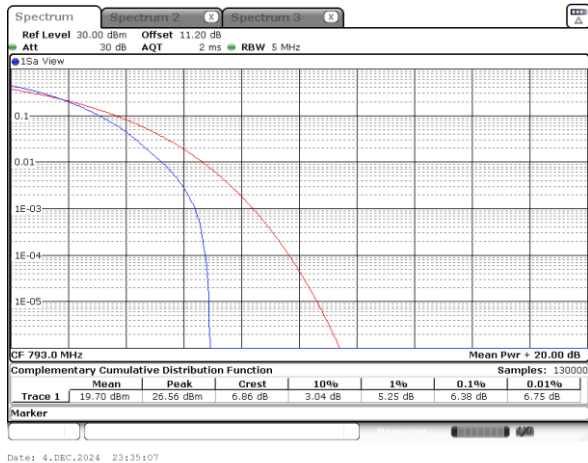
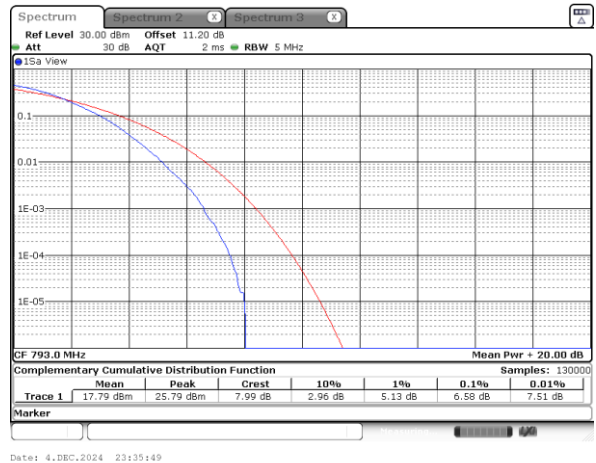
1. Normal Voltage =3.3 V. ; Minimum Voltage =3.14 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

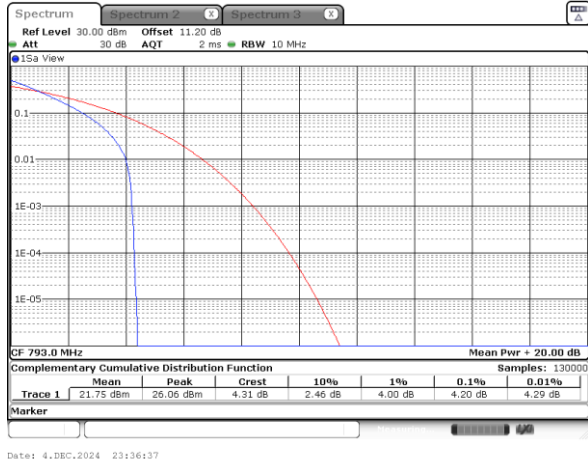


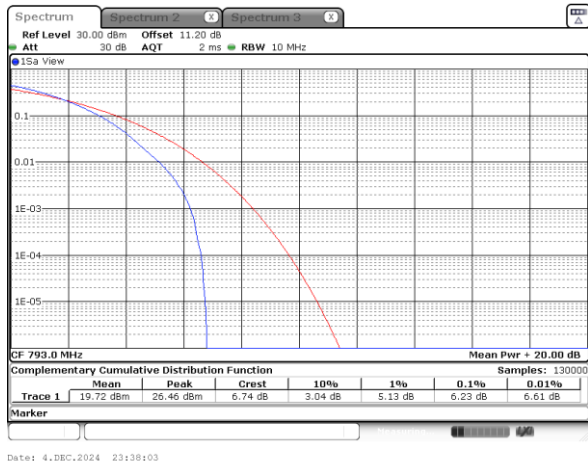
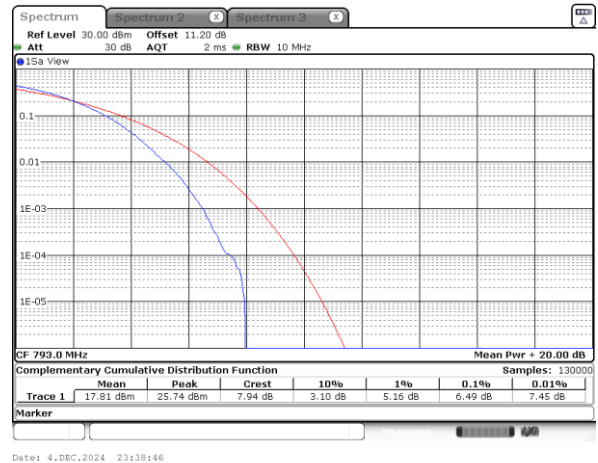
LTE Band 14

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	4.26	5.45	6.38	6.58	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	4.20	5.42	6.23	6.49	PASS

LTE Band 14 / 5MHz / QPSK
Middle Channel / Full RB

LTE Band 14 / 5MHz / 16QAM
Middle Channel / Full RB

LTE Band 14 / 5MHz / 64QAM
Middle Channel / Full RB

LTE Band 14 / 5MHz / 256QAM
Middle Channel / Full RB


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


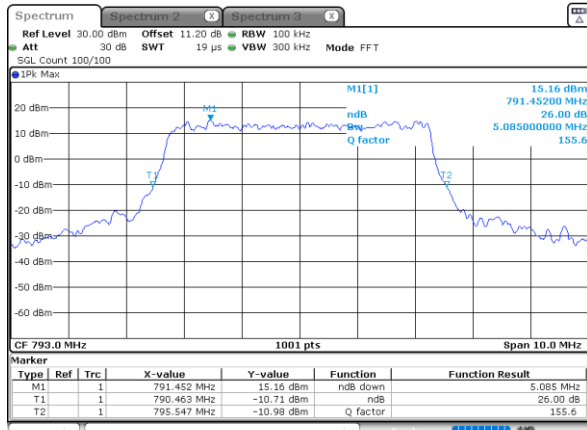
**26dB Bandwidth**

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	-	-	-	-	5.08	4.97	9.76	10.10	-	-	-	-
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	-	-	-	-	4.98	5.00	9.81	9.89	-	-	-	-



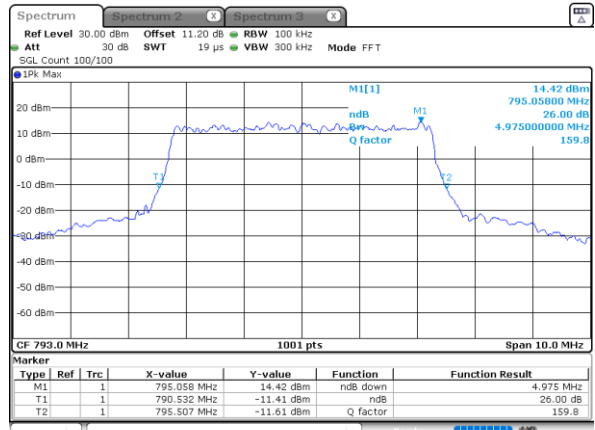
LTE Band 14

Middle Channel / 5MHz / QPSK



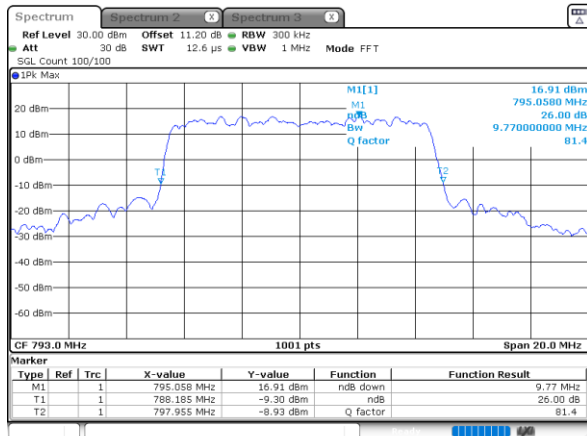
Date: 4.DEC.2024 23:28:07

Middle Channel / 5MHz / 16QAM



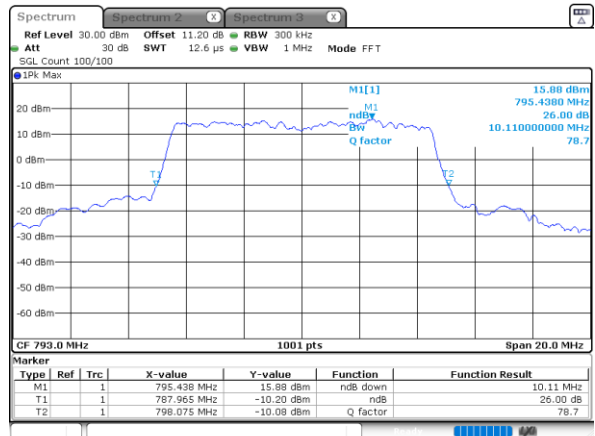
Date: 4.DEC.2024 23:28:47

Middle Channel / 10MHz / QPSK



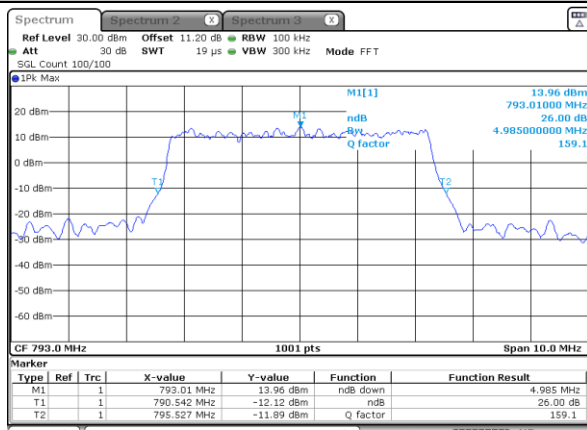
Date: 4.DEC.2024 23:30:55

Middle Channel / 10MHz / 16QAM



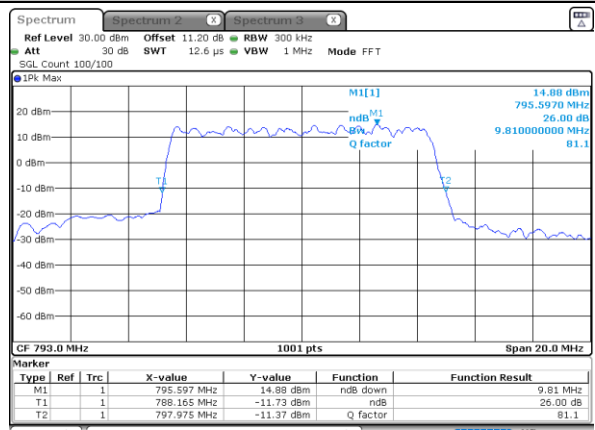
Date: 4.DEC.2024 23:31:33

Middle Channel / 5MHz / 64QAM



Date: 4.DEC.2024 23:29:27

Middle Channel / 10MHz / 64QAM

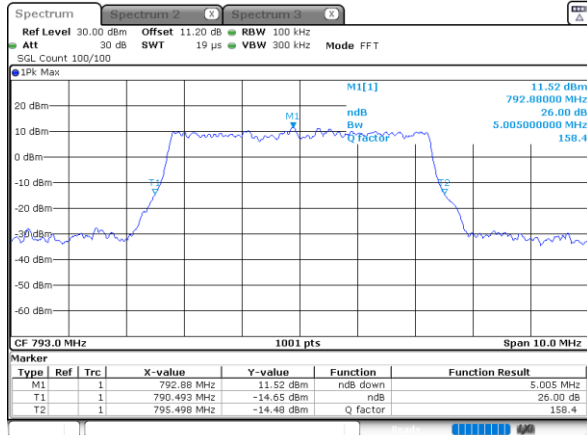


Date: 4.DEC.2024 23:32:14



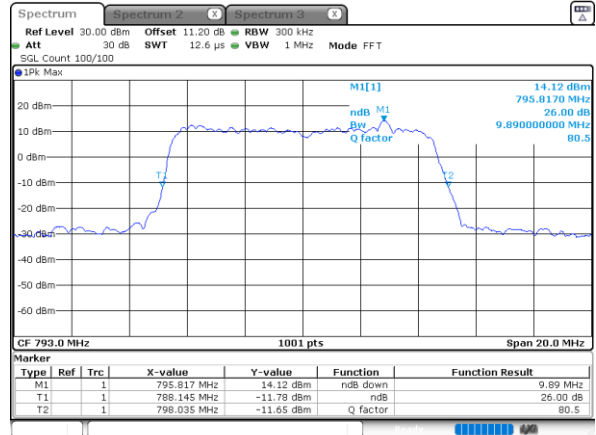
LTE Band 14

Middle Channel / 5MHz / 256QAM



Date: 4.DEC.2024 23:30:07

Middle Channel / 10MHz / 256QAM



Date: 4.DEC.2024 23:32:54

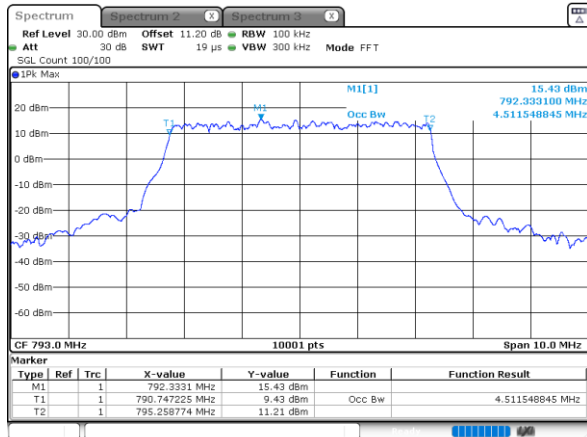
**Occupied Bandwidth**

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	-	-	-	-	4.51	4.48	8.99	9.10	-	-	-	-
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	4.48	9.03	9.01	-	-	-	-

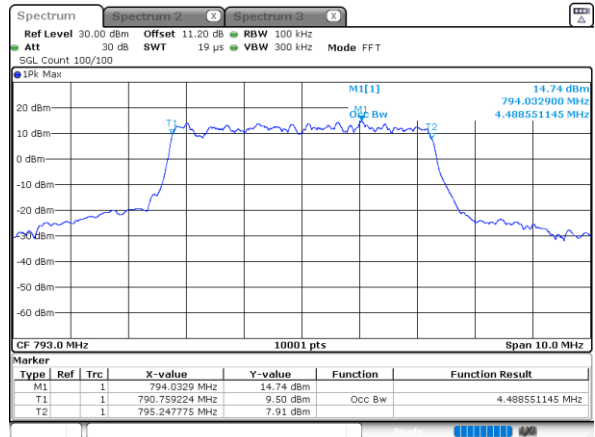


LTE Band 14

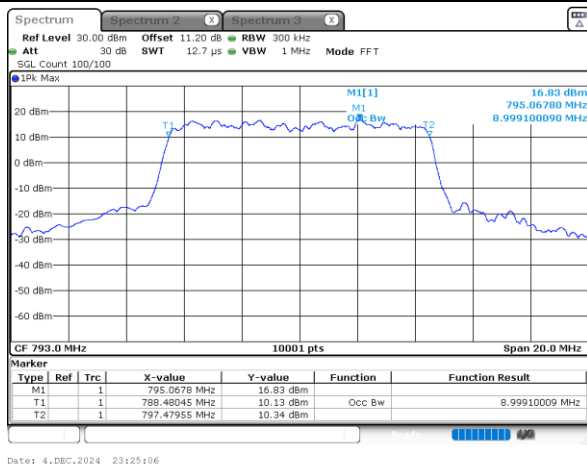
Middle Channel / 5MHz / QPSK



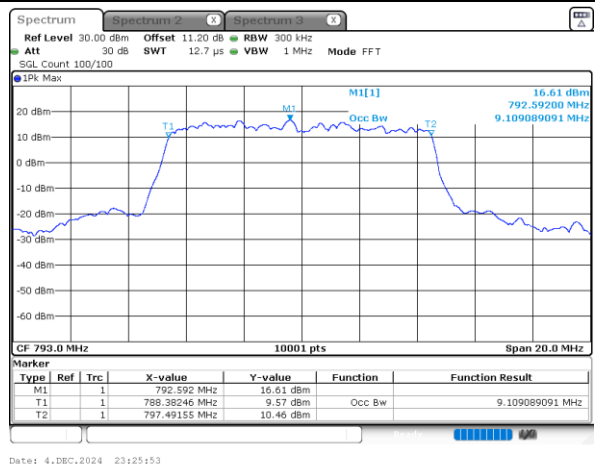
Middle Channel / 5MHz / 16QAM



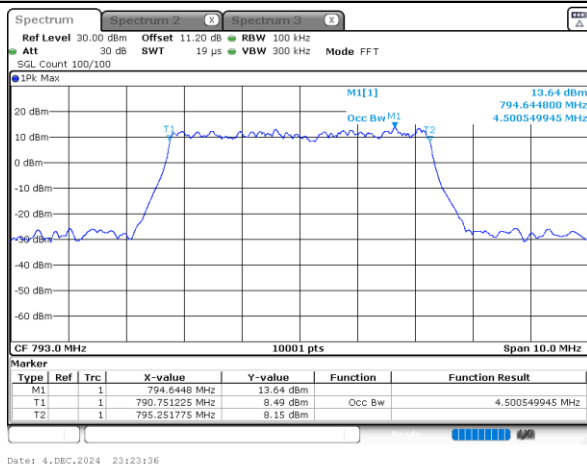
Middle Channel / 10MHz / QPSK



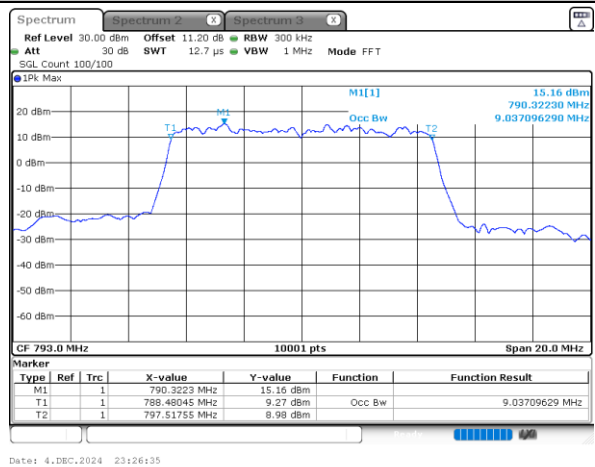
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



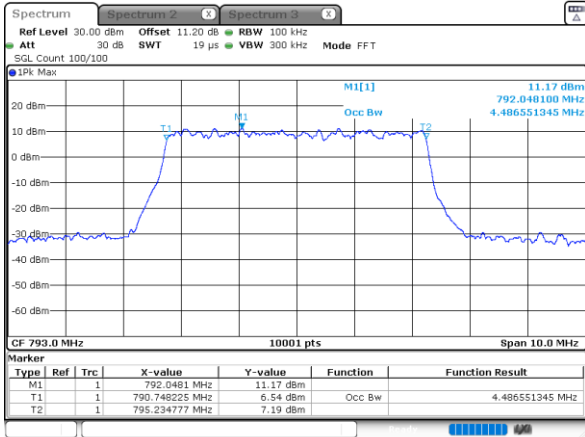
Middle Channel / 10MHz / 64QAM





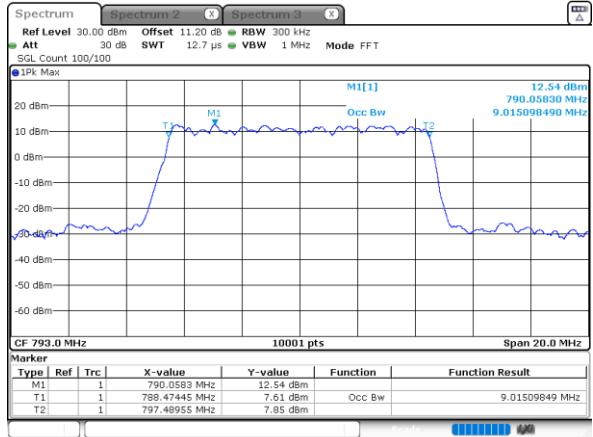
LTE Band 14

Middle Channel / 5MHz / 256QAM



Date: 4.DEC.2024 23:24:18

Middle Channel / 10MHz / 256QAM



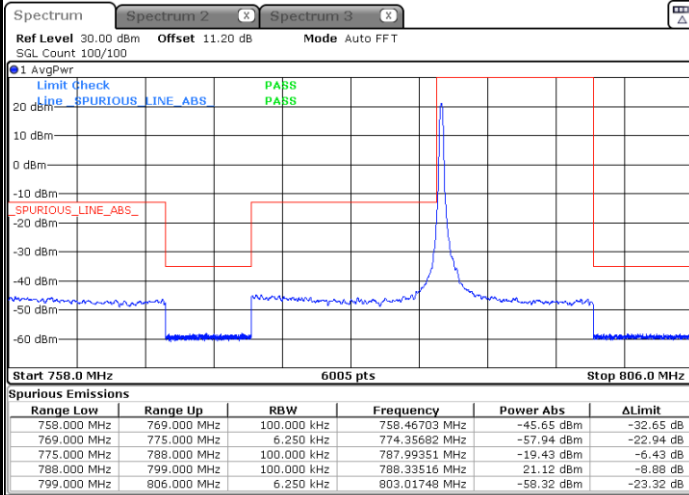
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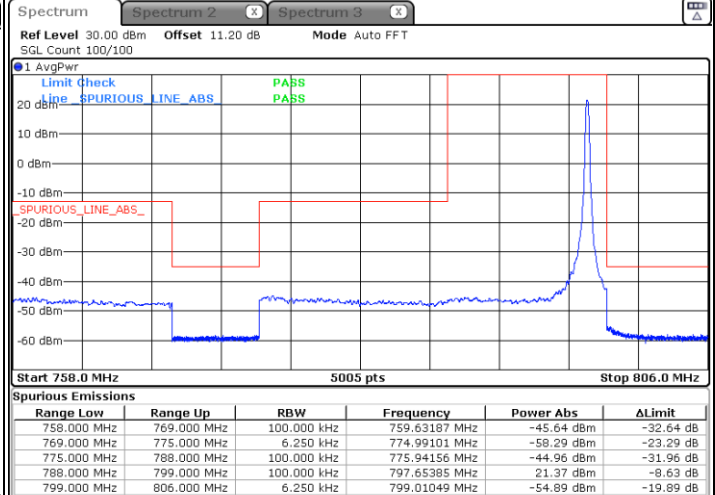
Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

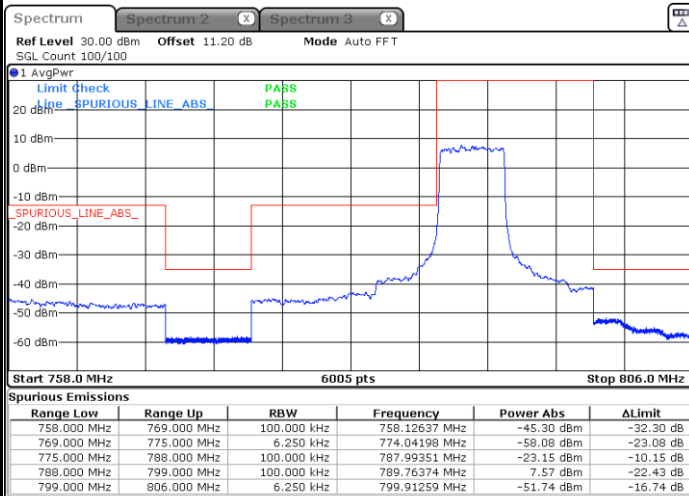
Lowest Band Edge / 1 RB



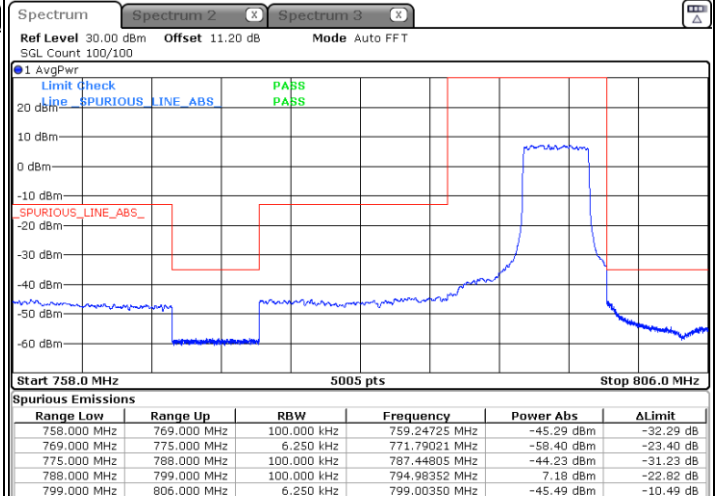
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



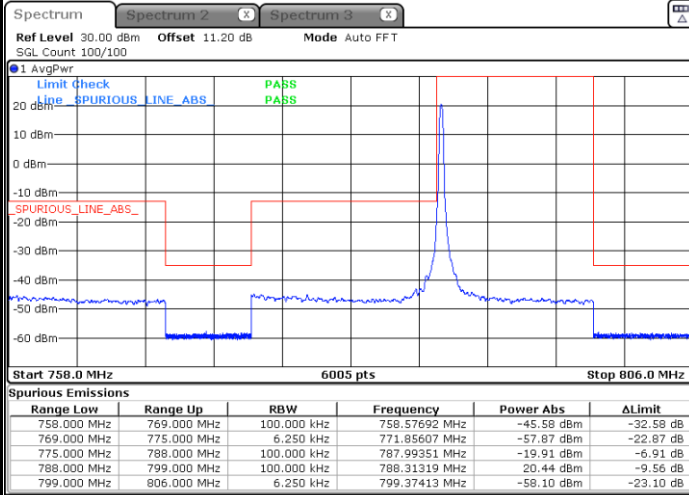
Highest Band Edge / Full RB



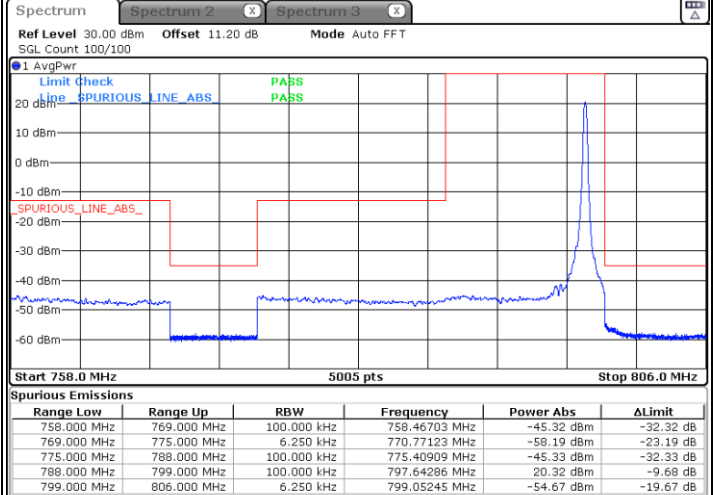


LTE Band 14 / 5MHz / 16QAM

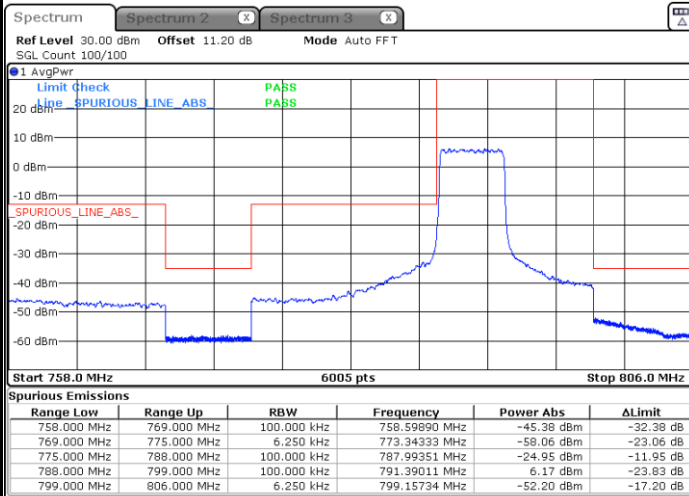
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

