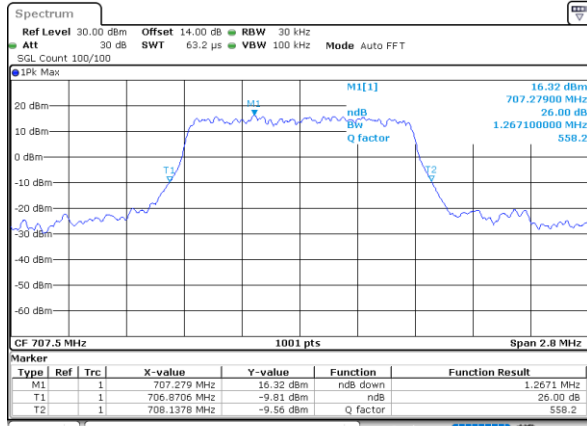




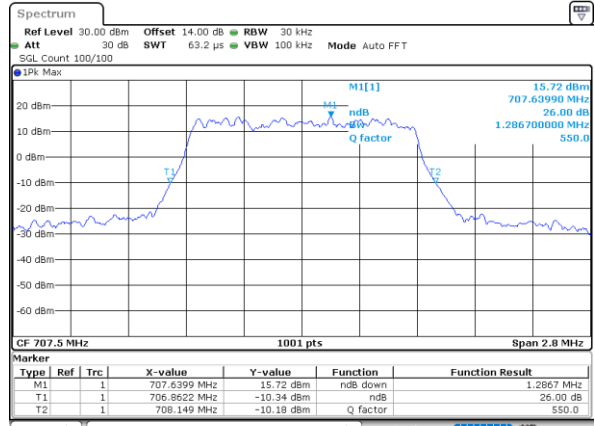
LTE Band 12

Middle Channel / 1.4MHz / QPSK



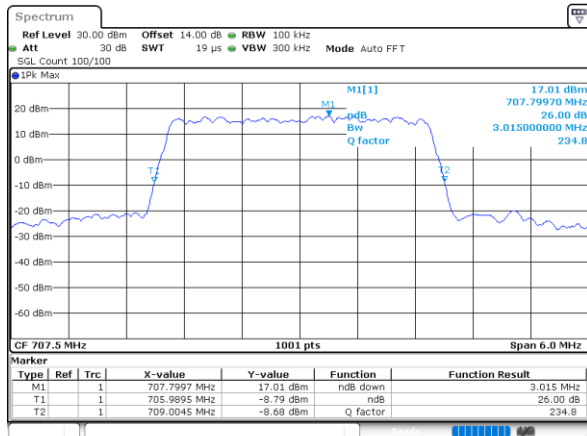
Date: 30,SEP,2024 11:09:19

Middle Channel / 1.4MHz / 16QAM



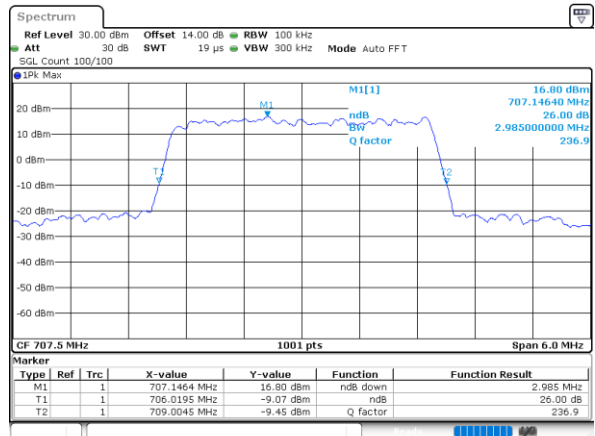
Date: 30,SEP,2024 11:10:02

Middle Channel / 3MHz / QPSK



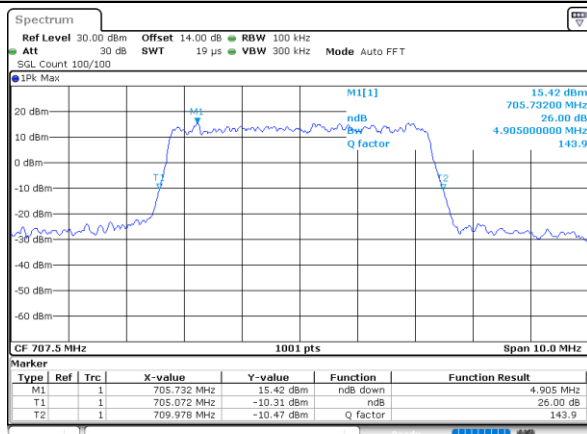
Date: 30,SEP,2024 11:28:50

Middle Channel / 3MHz / 16QAM



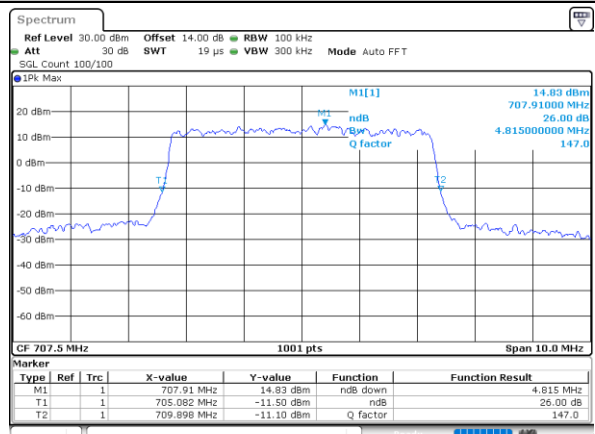
Date: 30,SEP,2024 11:29:32

Middle Channel / 5MHz / QPSK



Date: 30,SEP,2024 11:51:38

Middle Channel / 5MHz / 16QAM

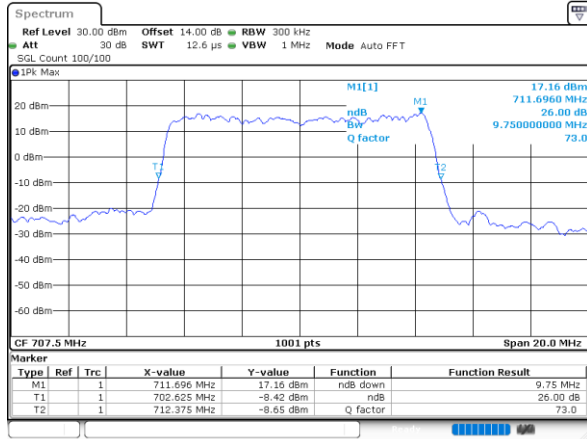


Date: 30,SEP,2024 11:52:21

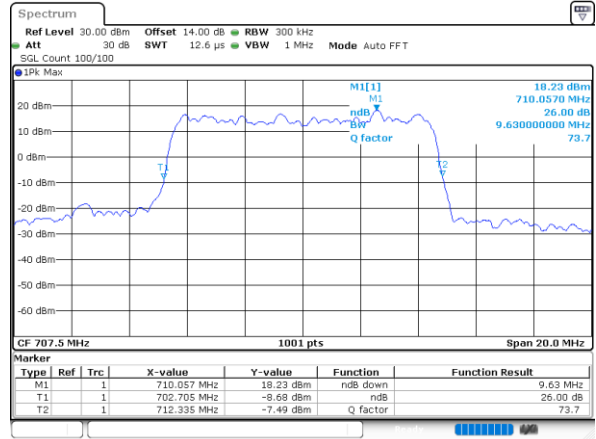


LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM





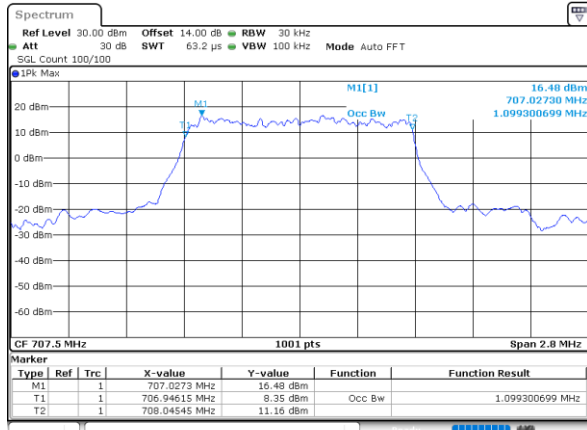
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.10	1.09	2.71	2.72	4.49	4.49	9.07	8.99	-	-	-	-



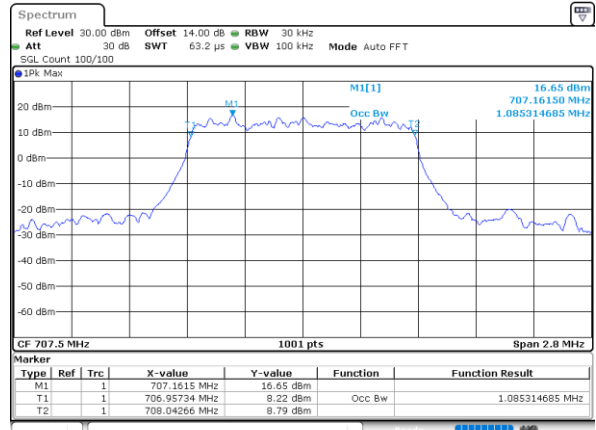
LTE Band 12

Middle Channel / 1.4MHz / QPSK



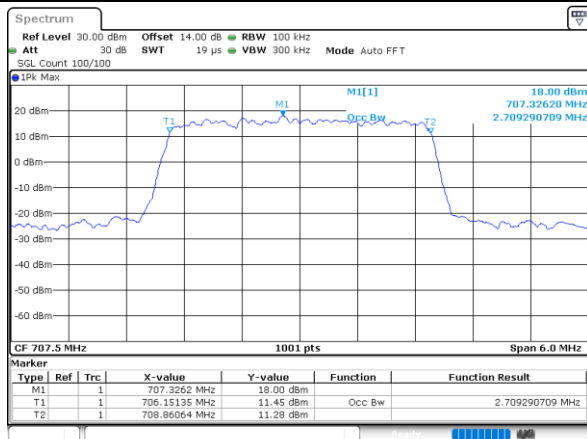
Date: 30.SEP.2024 11:09:05

Middle Channel / 1.4MHz / 16QAM



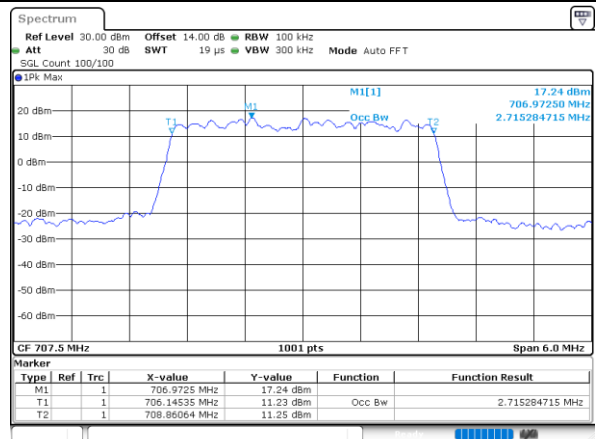
Date: 30.SEP.2024 11:09:48

Middle Channel / 3MHz / QPSK



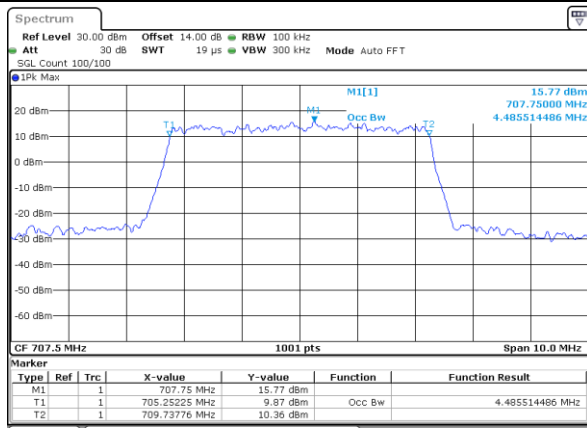
Date: 30.SEP.2024 11:28:06

Middle Channel / 3MHz / 16QAM



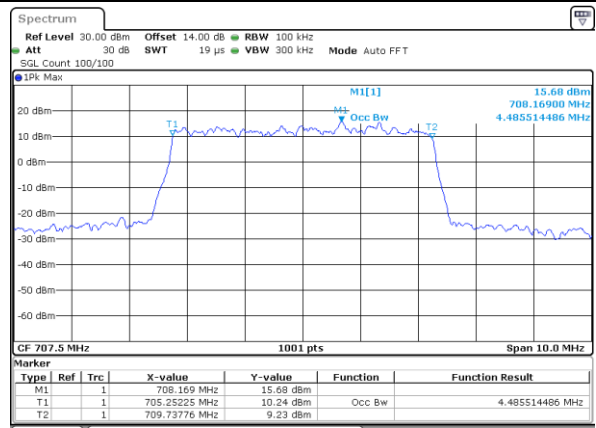
Date: 30.SEP.2024 11:29:16

Middle Channel / 5MHz / QPSK



Date: 30.SEP.2024 11:51:24

Middle Channel / 5MHz / 16QAM

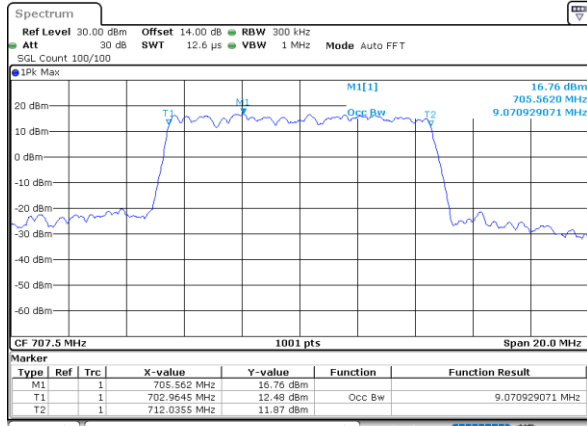


Date: 30.SEP.2024 11:52:07



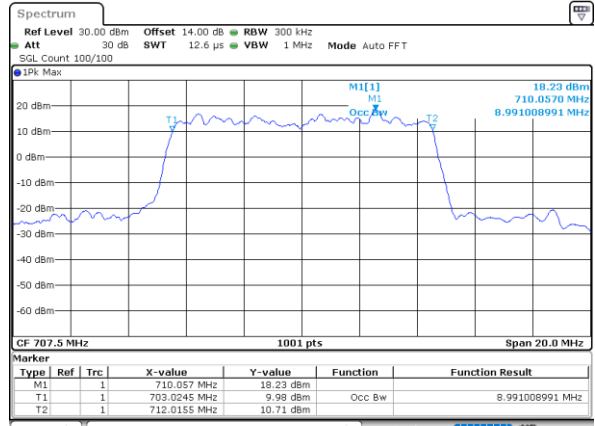
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 30,SEP,2024 12:10:56

Middle Channel / 10MHz / 16QAM



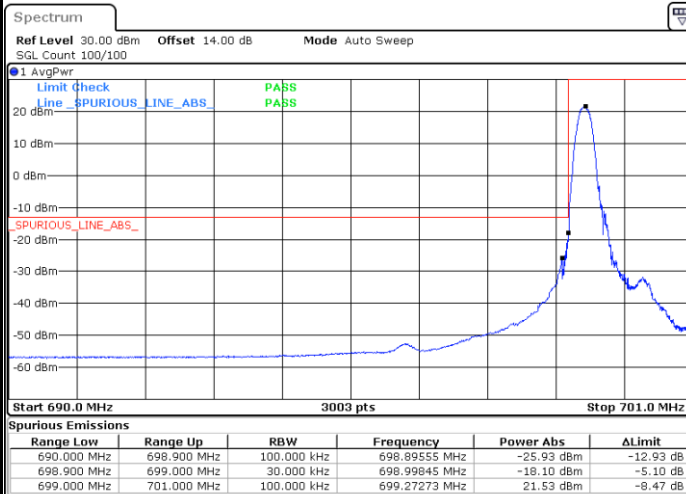
Date: 30,SEP,2024 12:11:38



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

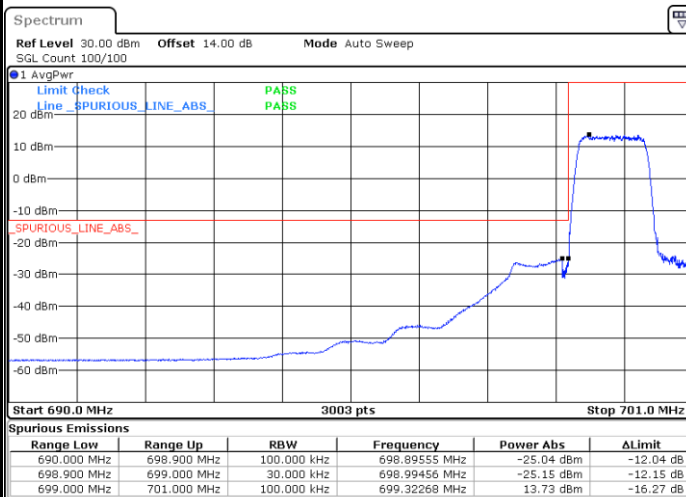
Lowest Band Edge / 1RB



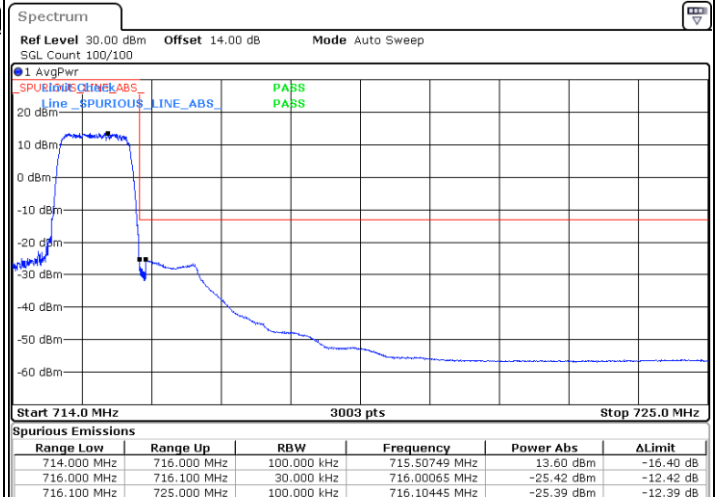
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



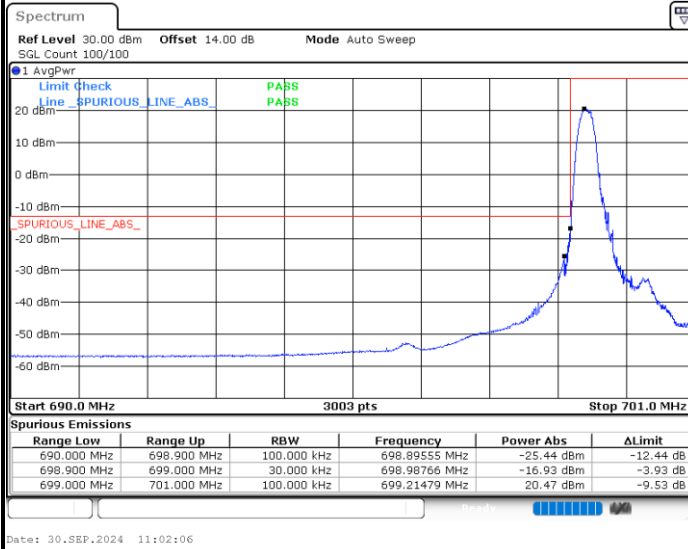
Highest Band Edge / Full RB



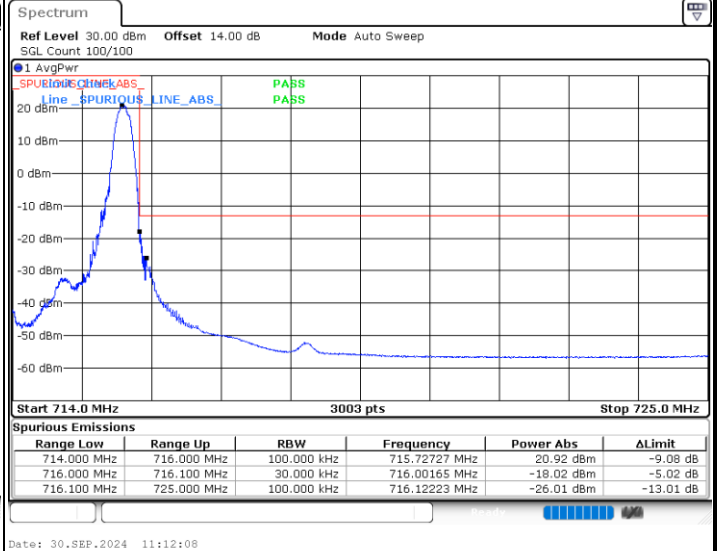


LTE Band 12 / 1.4MHz / 16QAM

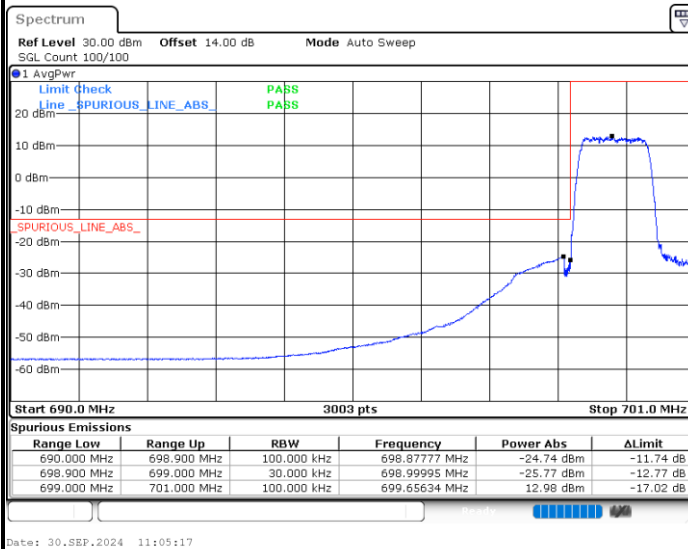
Lowest Band Edge / 1 RB



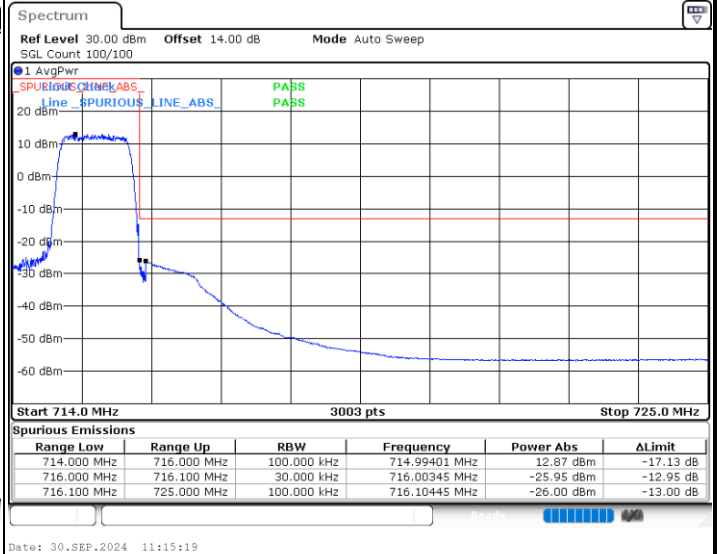
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



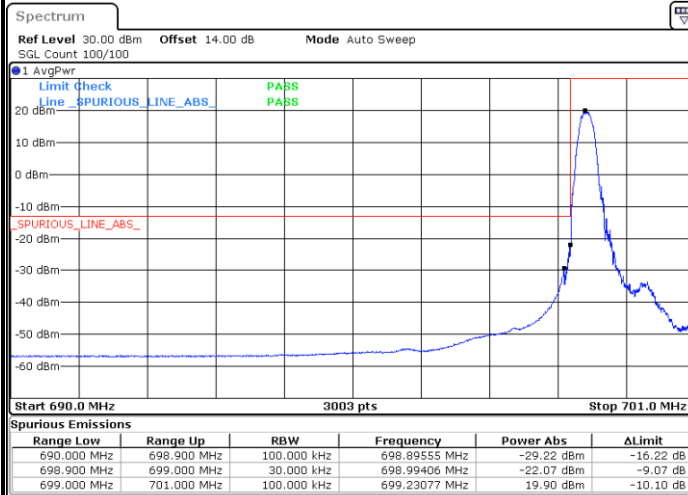
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 64QAM

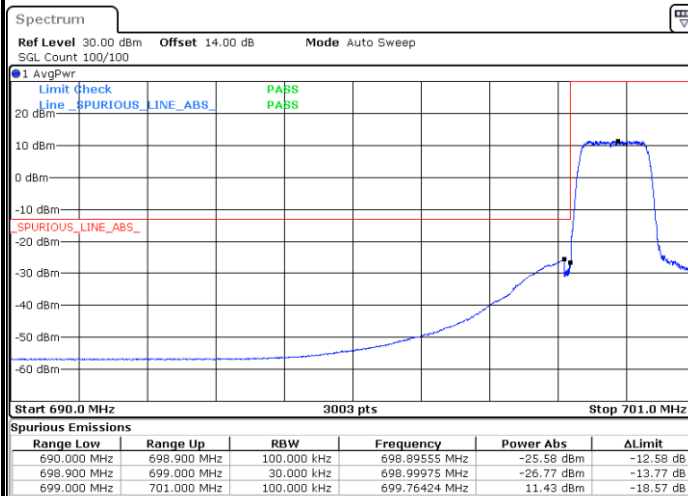
Lowest Band Edge / 1 RB



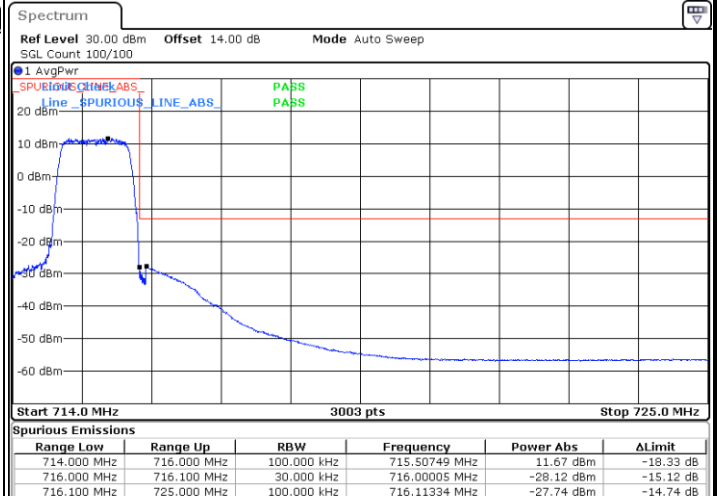
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



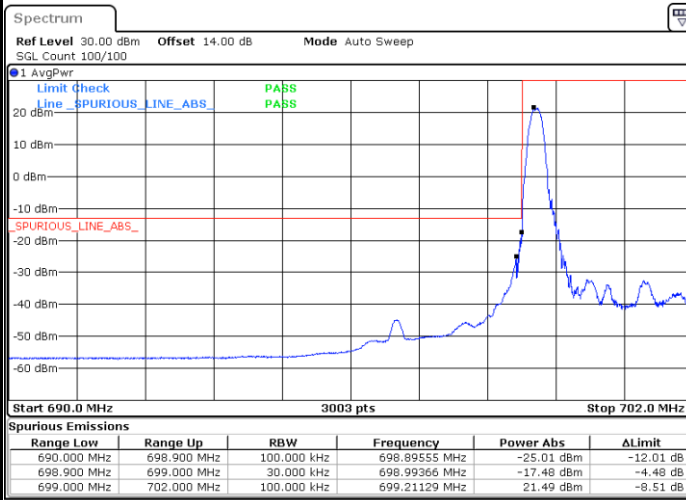
Highest Band Edge / Full RB



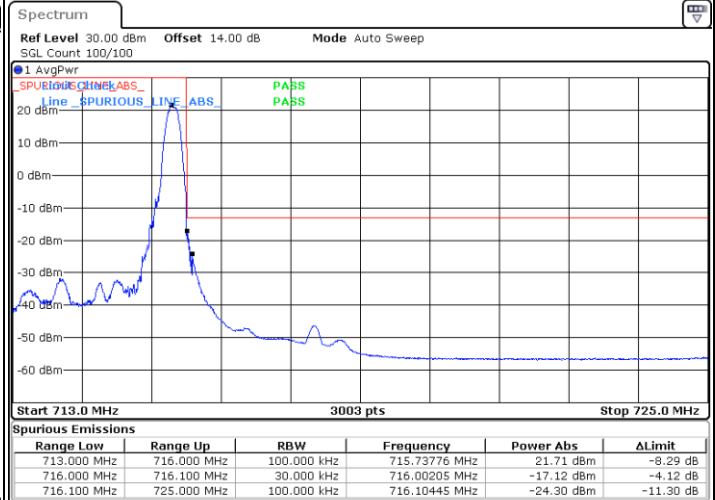


LTE Band 12 / 3MHz / QPSK

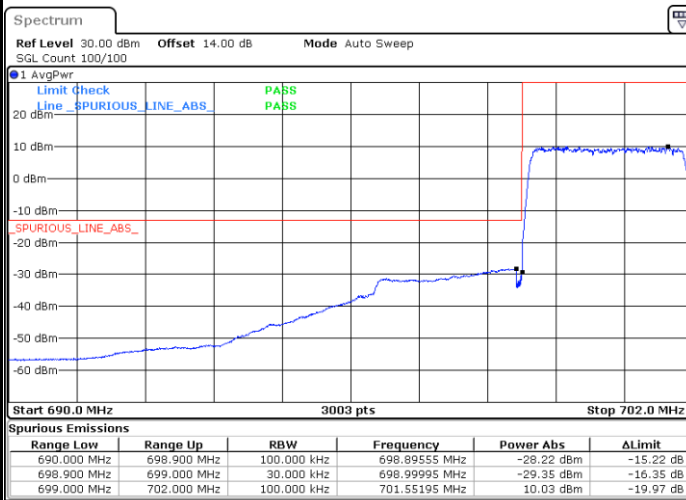
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



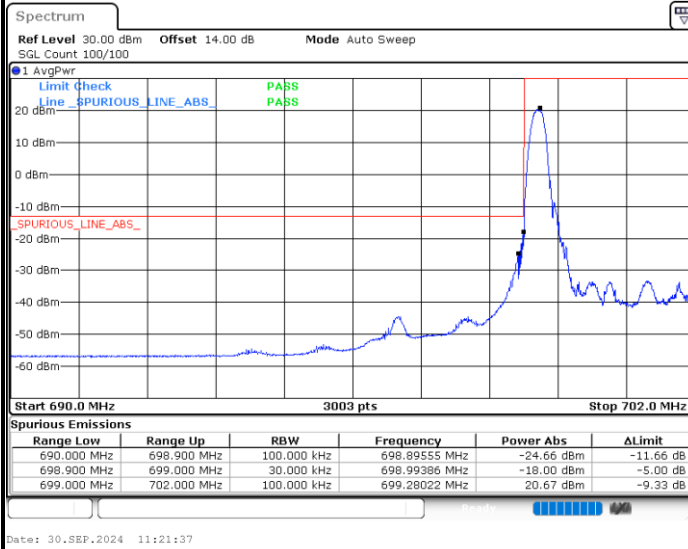
Highest Band Edge / Full RB



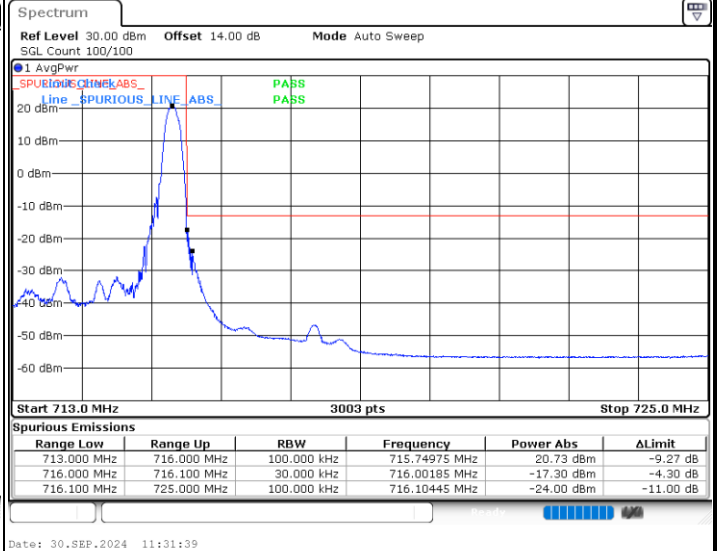


LTE Band 12 / 3MHz / 16QAM

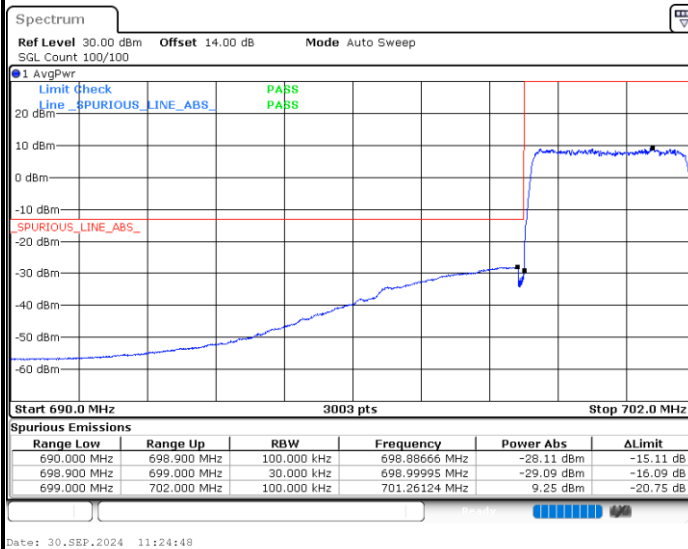
Lowest Band Edge / 1 RB



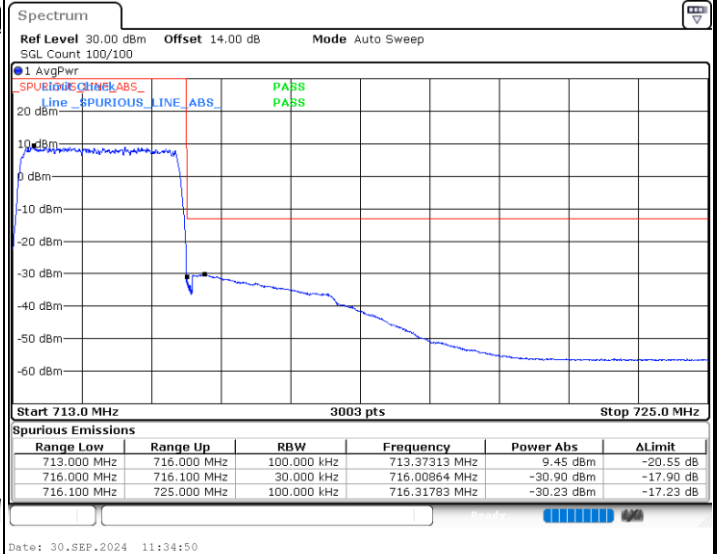
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



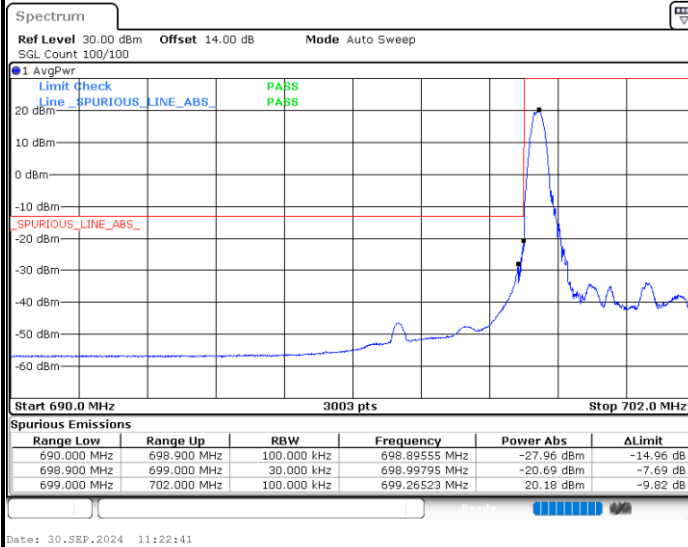
Highest Band Edge / Full RB



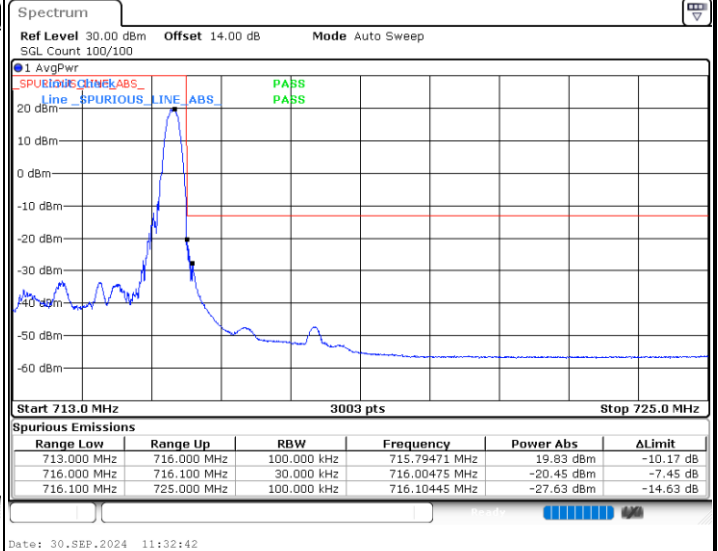


LTE Band 12 / 3MHz / 64QAM

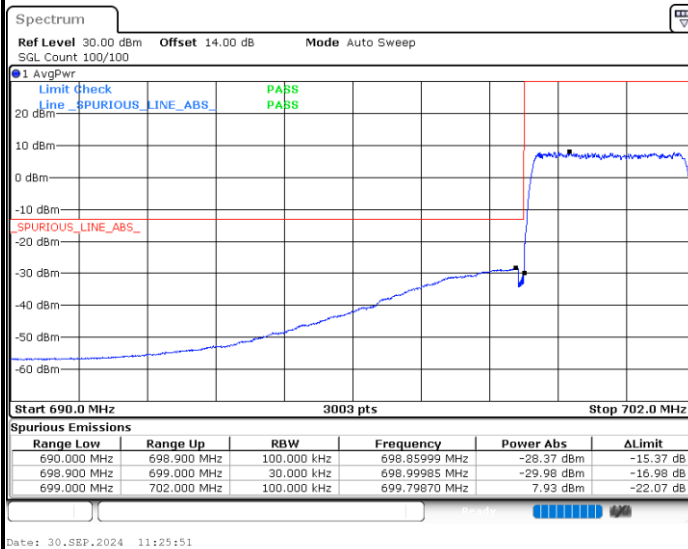
Lowest Band Edge / 1 RB



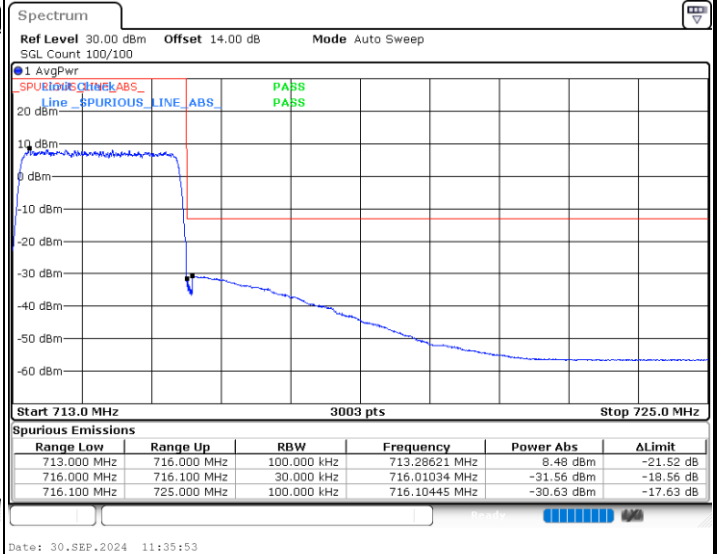
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



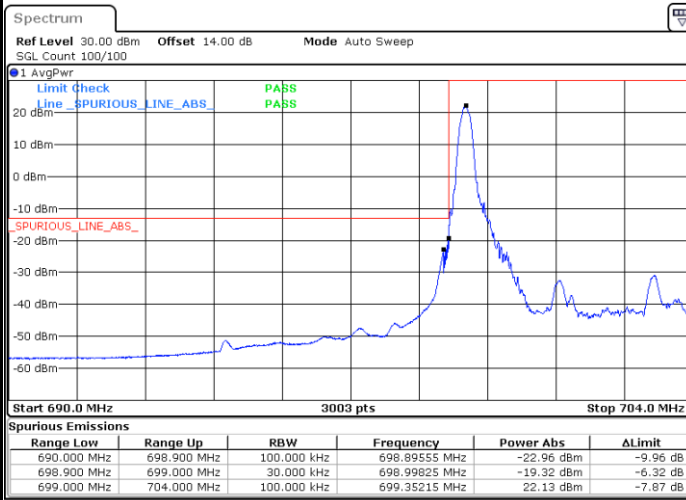
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / QPSK

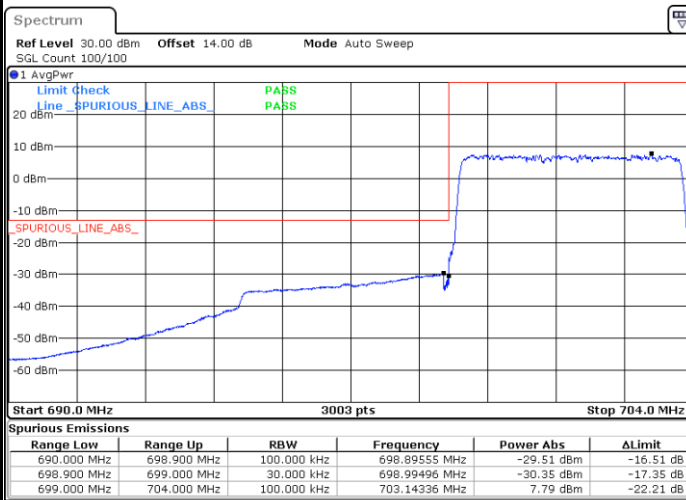
Lowest Band Edge / 1RB



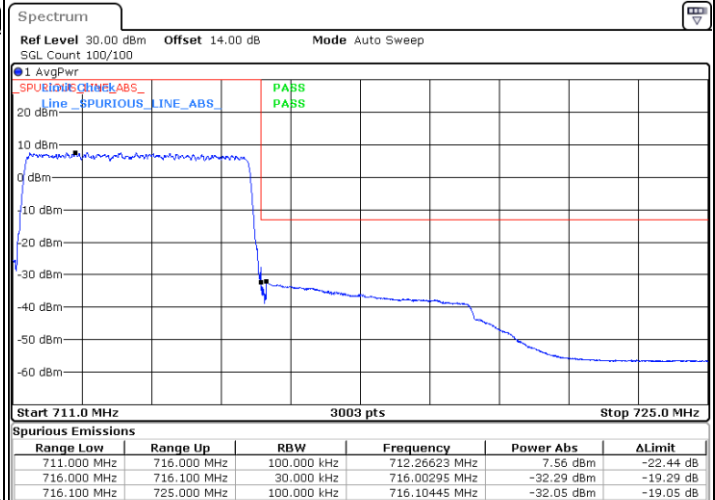
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



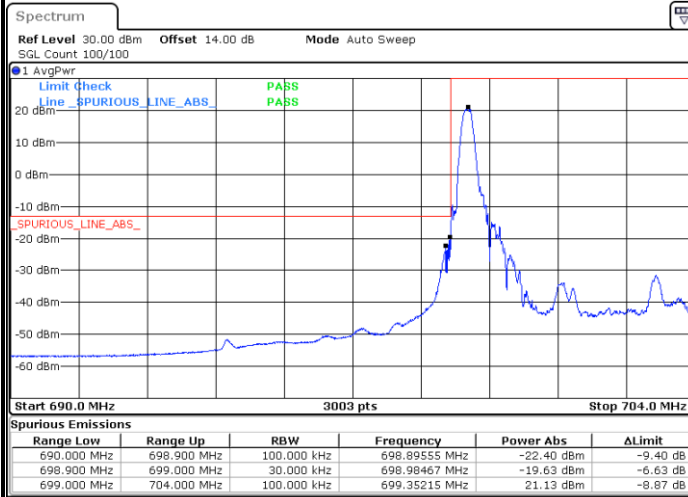
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 16QAM

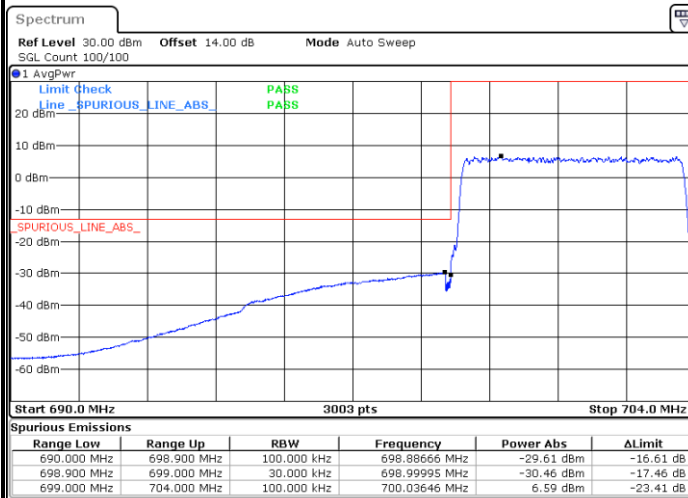
Lowest Band Edge / 1 RB



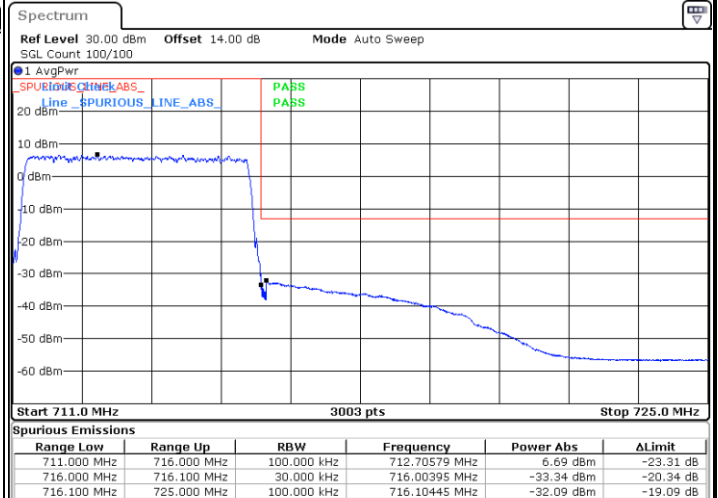
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



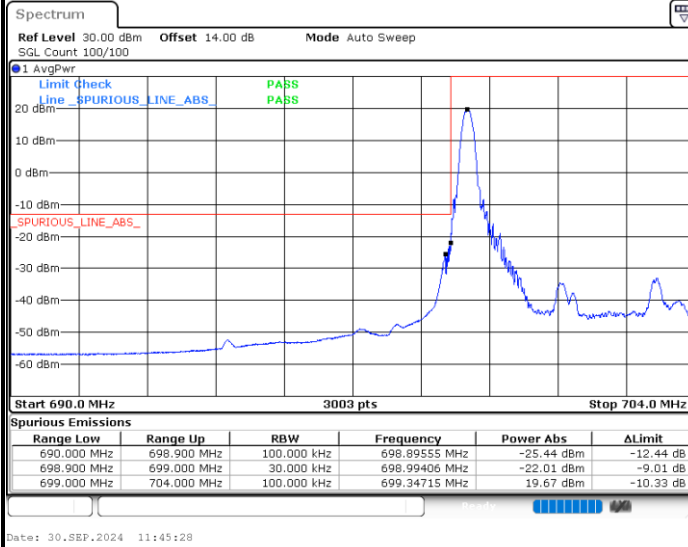
Highest Band Edge / Full RB



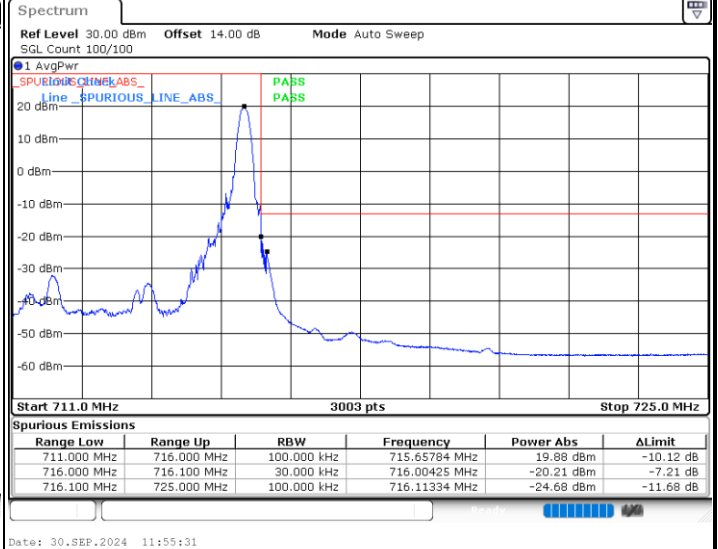


LTE Band 12 / 5MHz / 64QAM

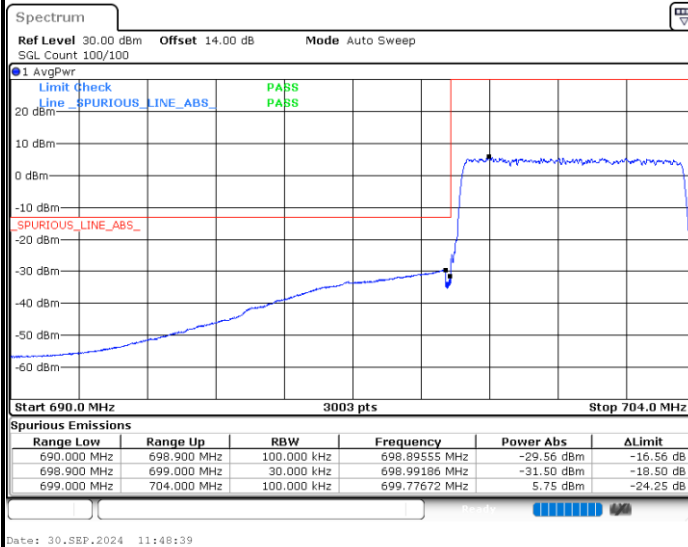
Lowest Band Edge / 1 RB



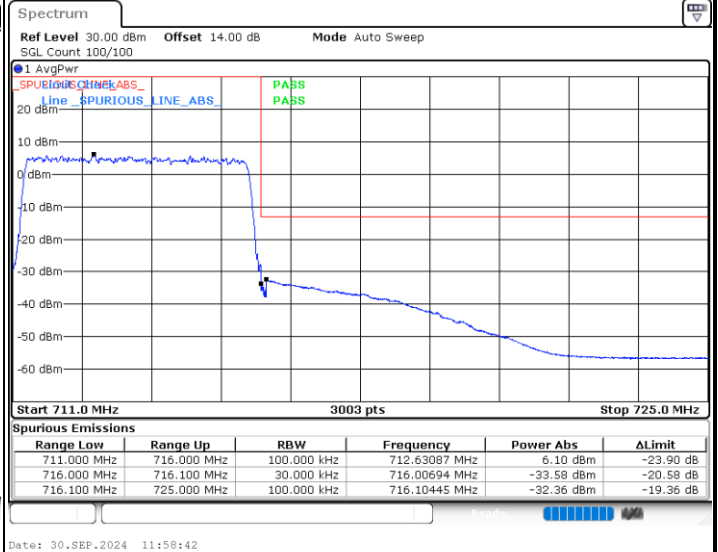
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



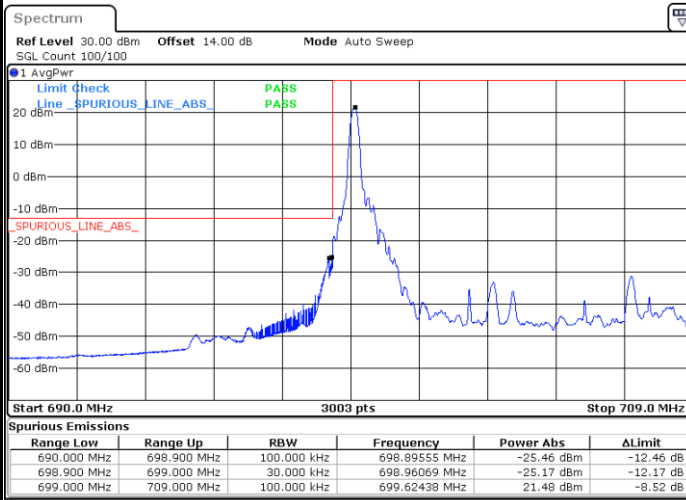
Highest Band Edge / Full RB



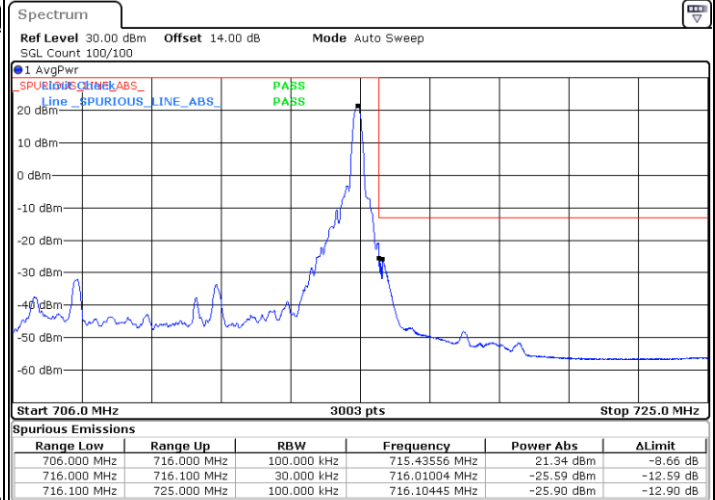


LTE Band 12 / 10MHz / QPSK

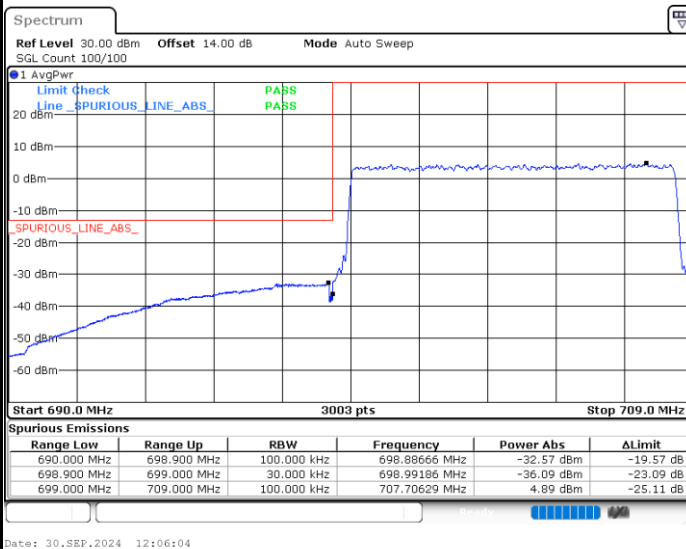
Lowest Band Edge / 1RB



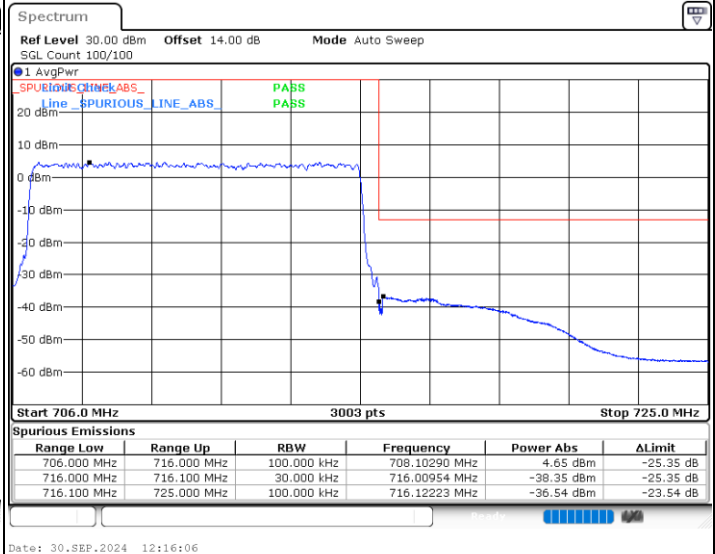
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



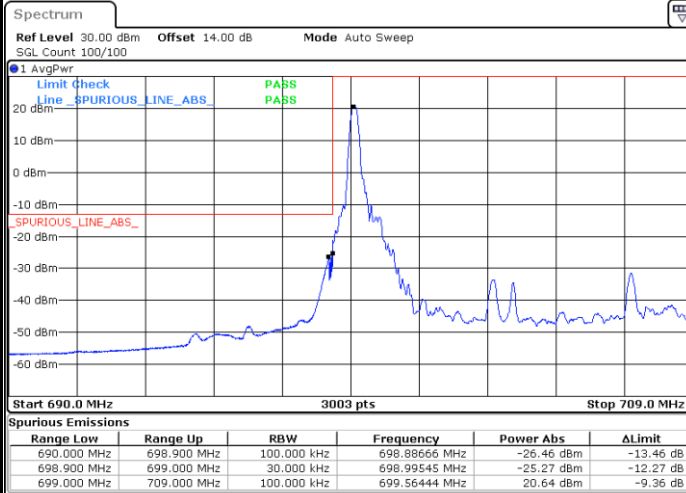
Highest Band Edge / Full RB



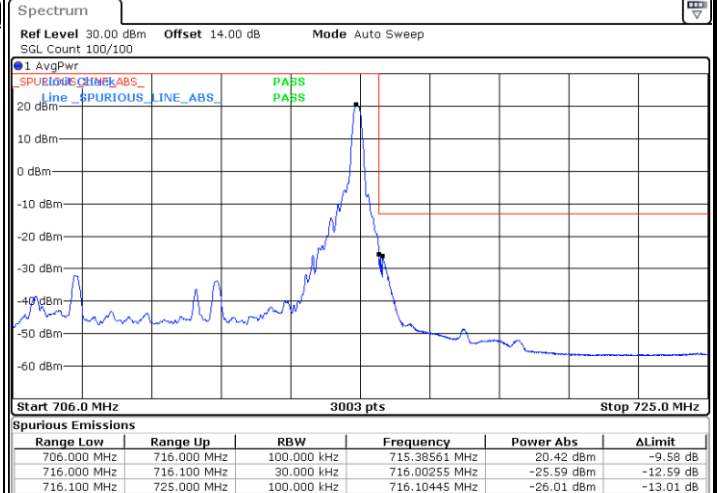


LTE Band 12 / 10MHz / 16QAM

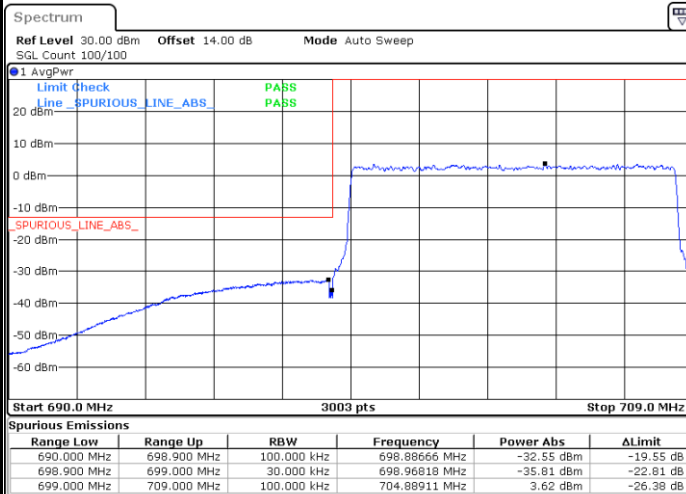
Lowest Band Edge / 1 RB



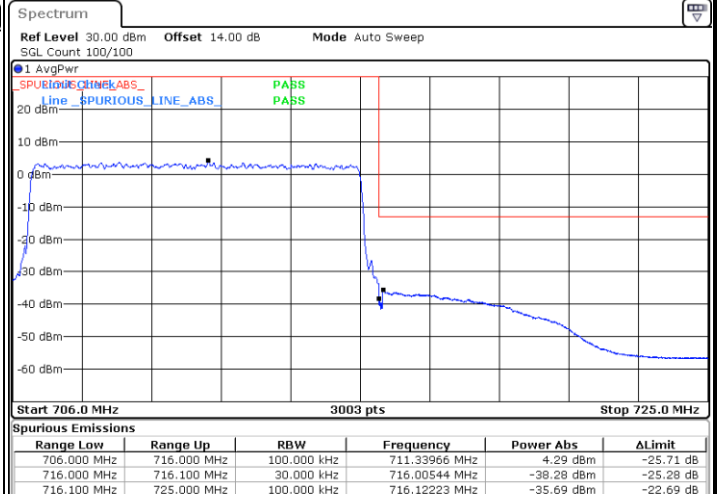
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



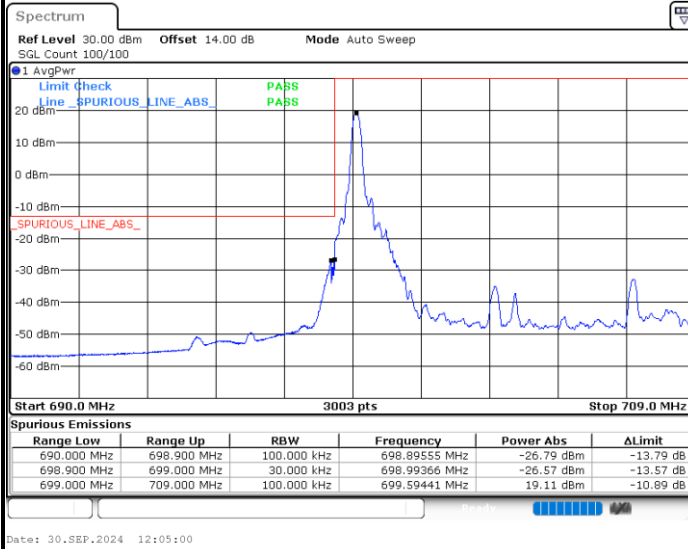
Highest Band Edge / Full RB



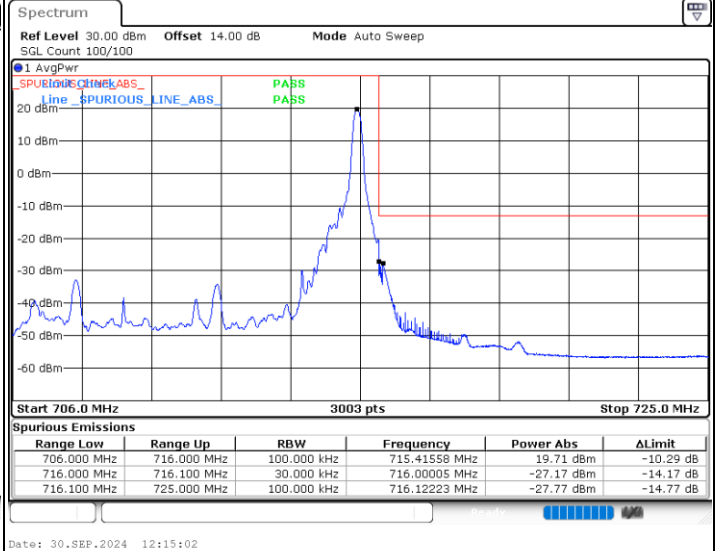


LTE Band 12 / 10MHz / 64QAM

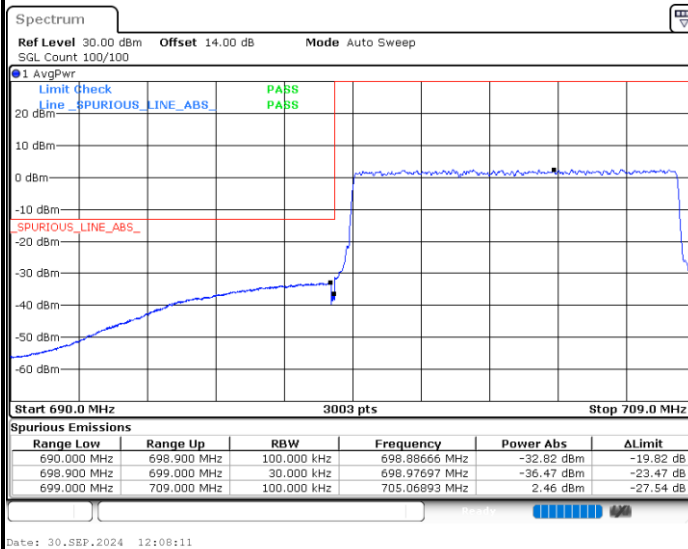
Lowest Band Edge / 1 RB



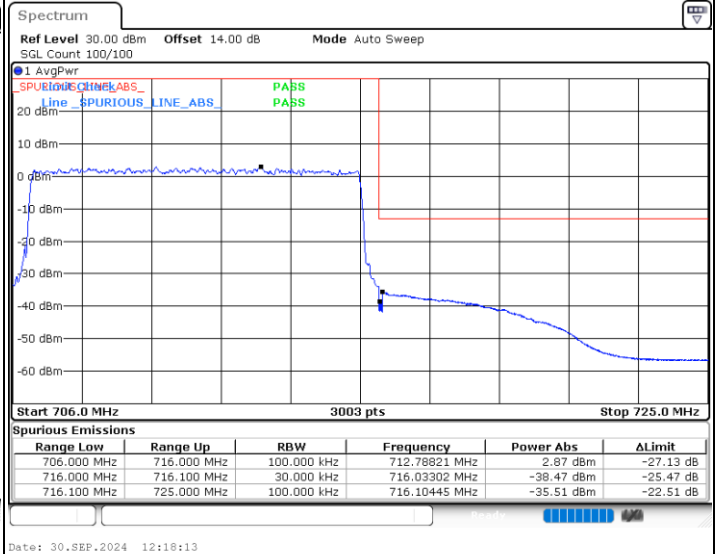
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

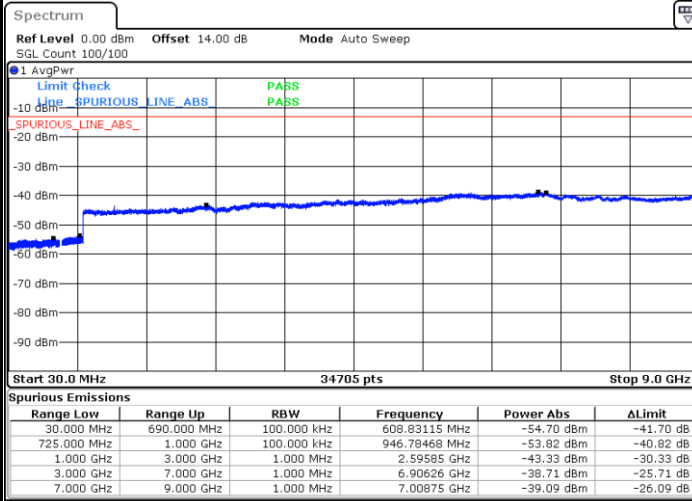




Conducted Spurious Emission

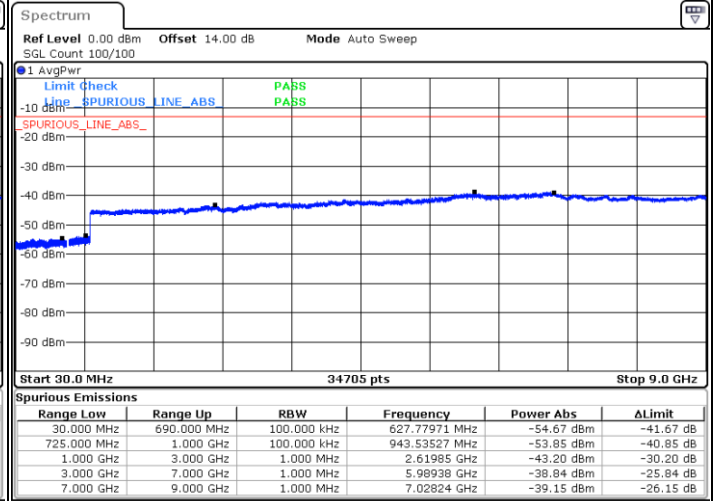
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



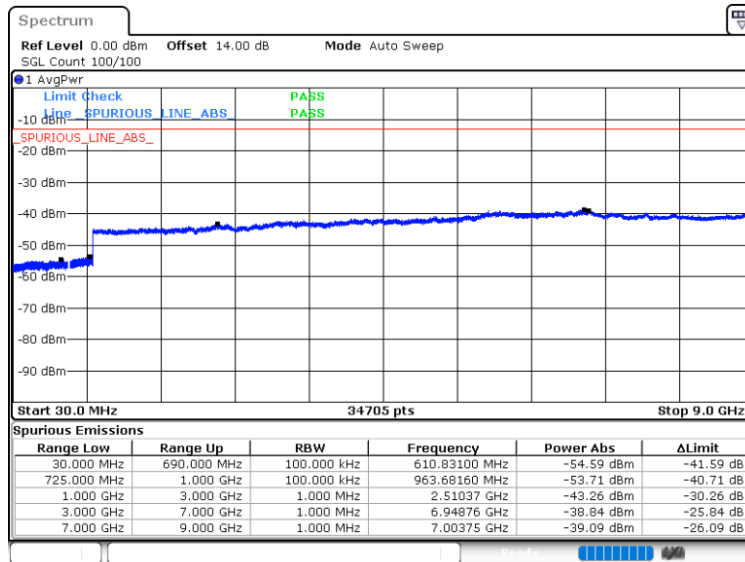
Date: 30.SEP.2024 11:07:28

Middle Channel / QPSK



Date: 30.SEP.2024 11:08:36

Highest Channel / QPSK

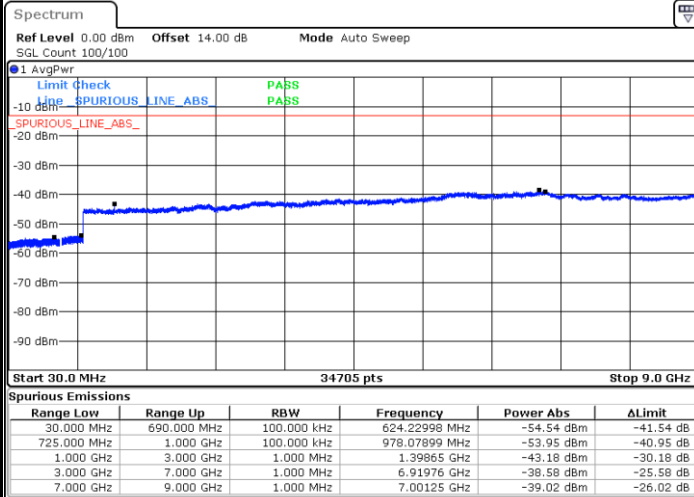


Date: 30.SEP.2024 11:17:31



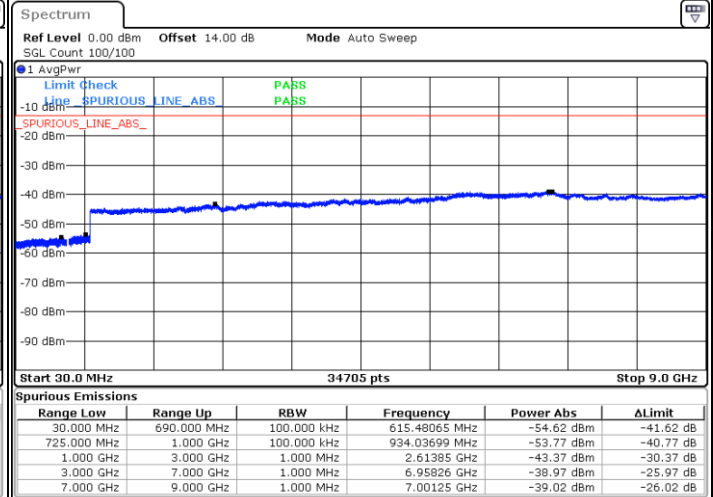
LTE Band 12 / 3MHz

Lowest Channel / QPSK



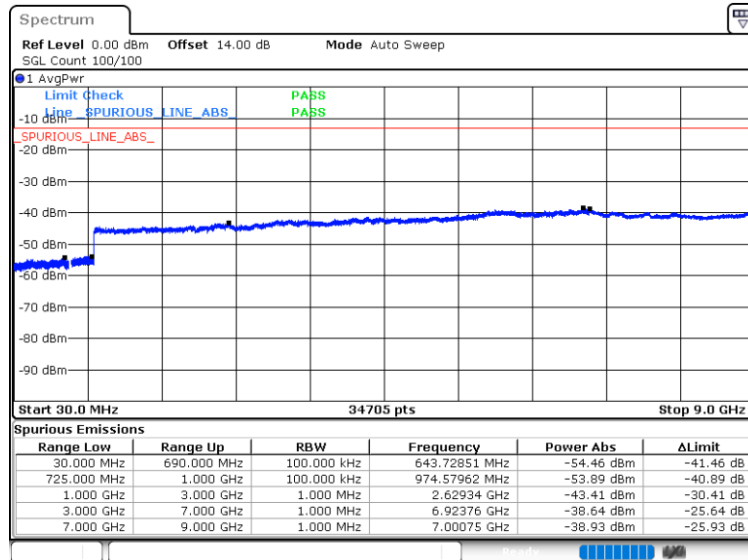
Date: 30.SEP.2024 11:26:59

Middle Channel / QPSK



Date: 30.SEP.2024 11:28:07

Highest Channel / QPSK

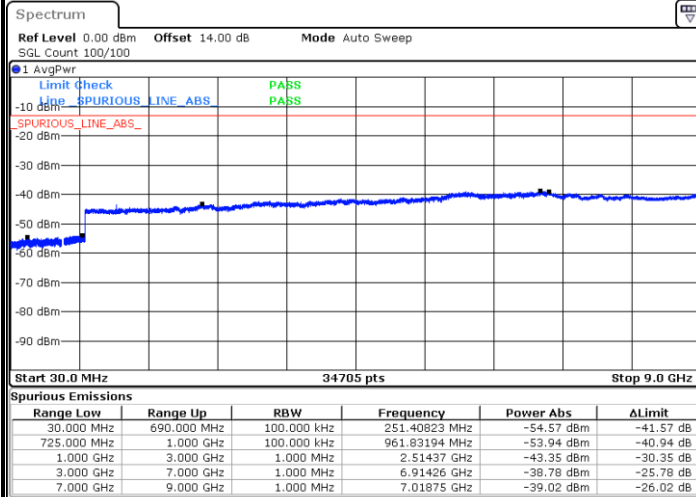


Date: 30.SEP.2024 11:37:01



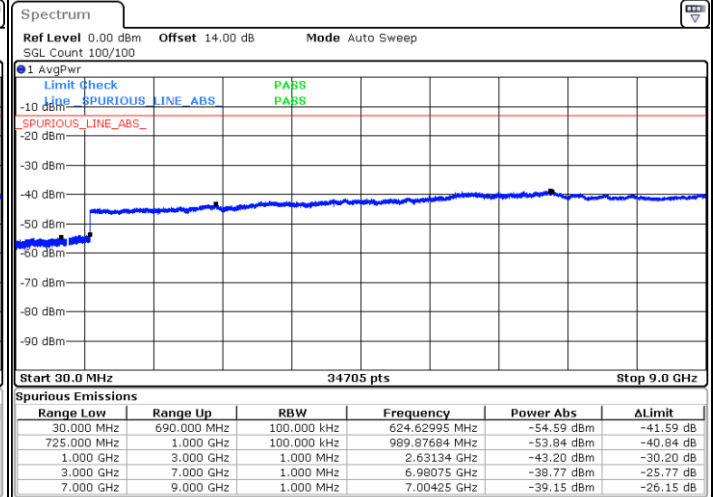
LTE Band 12 / 5MHz

Lowest Channel / QPSK



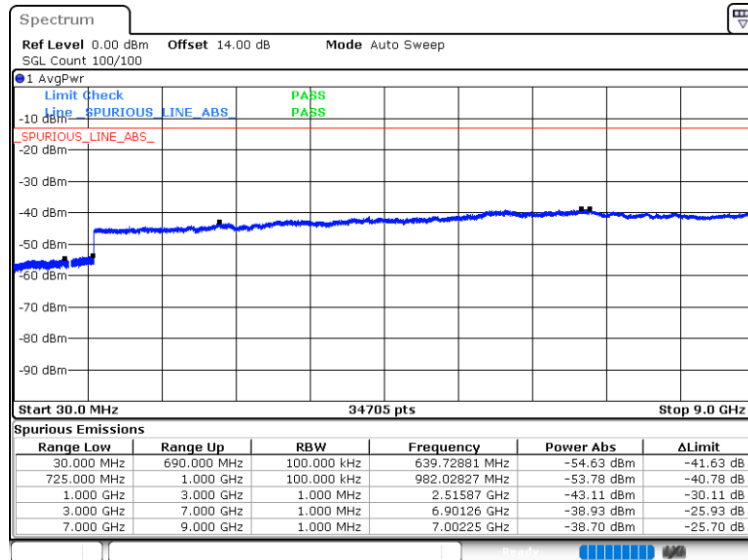
Date: 30.SEP.2024 11:49:47

Middle Channel / QPSK



Date: 30.SEP.2024 11:50:55

Highest Channel / QPSK

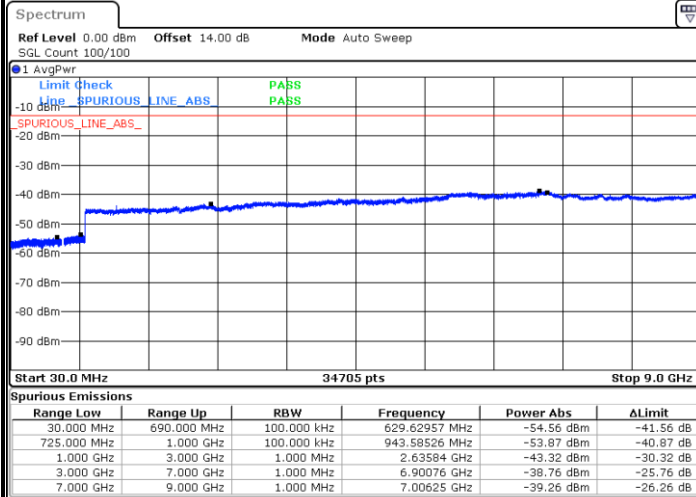


Date: 30.SEP.2024 11:59:50



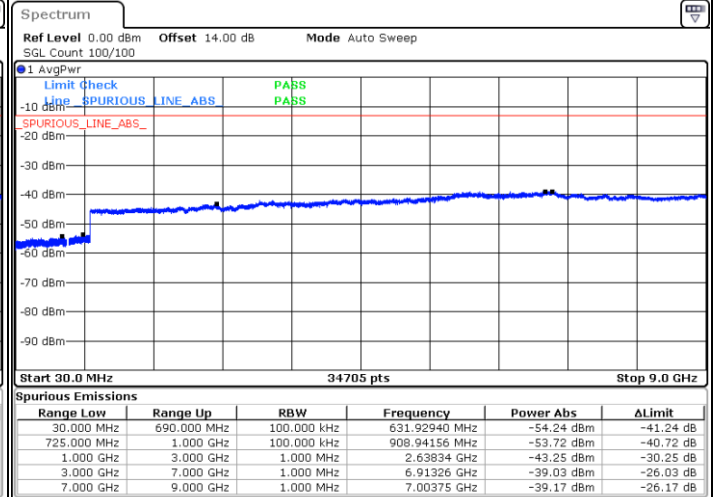
LTE Band 12 / 10MHz

Lowest Channel / QPSK



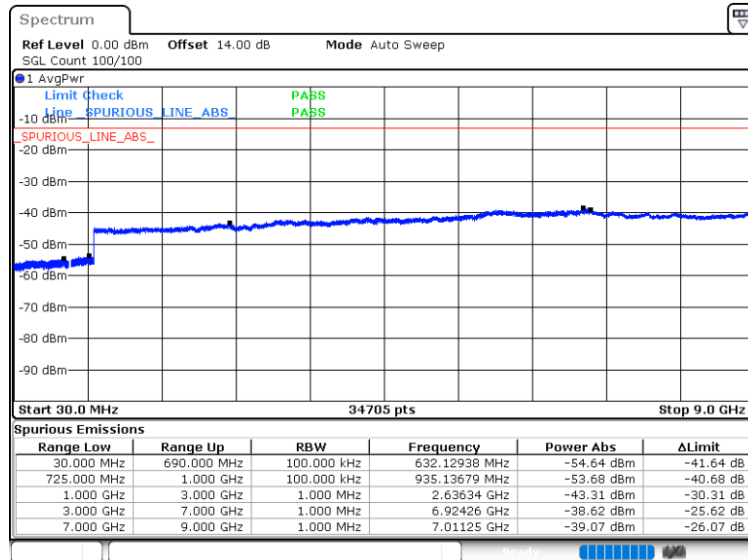
Date: 30.SEP.2024 12:09:19

Middle Channel / QPSK



Date: 30.SEP.2024 12:10:26

Highest Channel / QPSK



Date: 30.SEP.2024 12:19:21

**Frequency Stability**

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.92 V. ; Minimum Voltage = 3.5 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

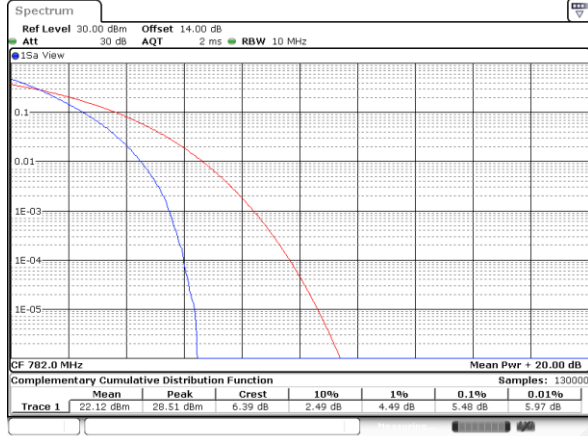
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.48	6.46	6.81	PASS



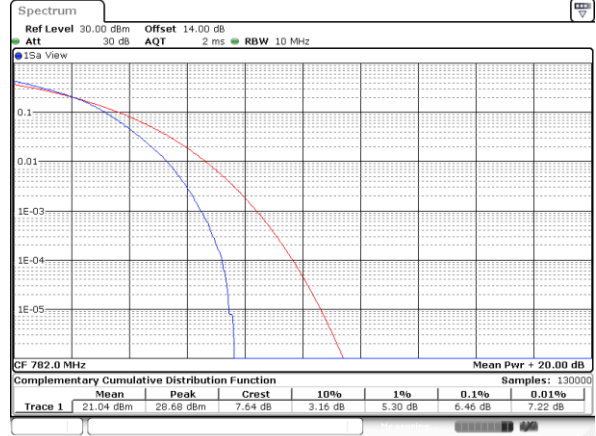
LTE Band 13 / 10MHz / QPSK

Middle Channel / Full RB



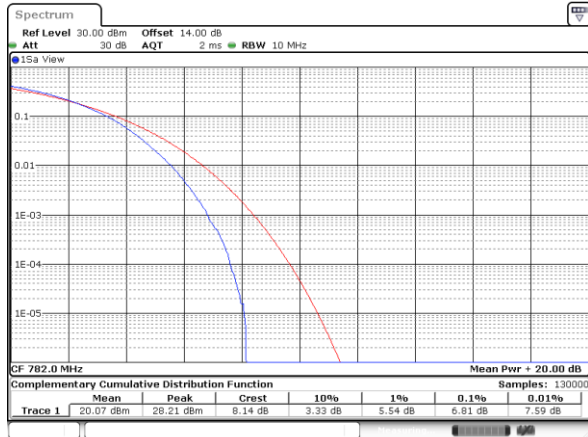
LTE Band 13 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB





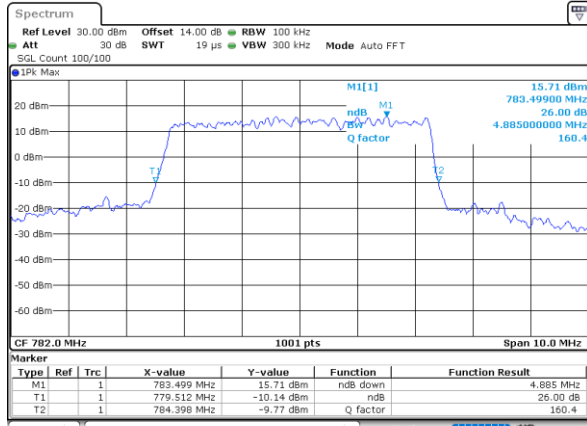
26dB Bandwidth

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	-	-	-	-	4.89	4.87	9.83	9.81	-	-	-	-



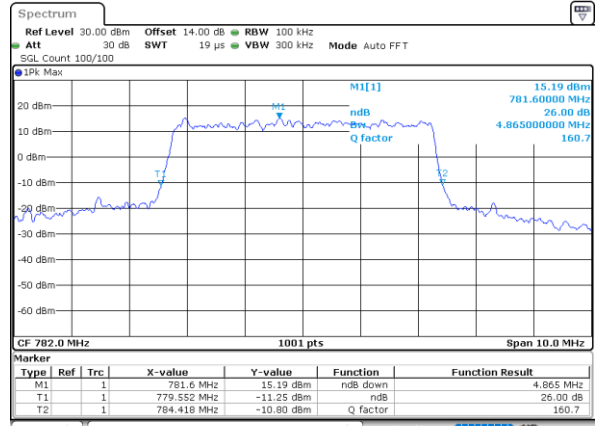
LTE Band 13

Middle Channel / 5MHz / QPSK



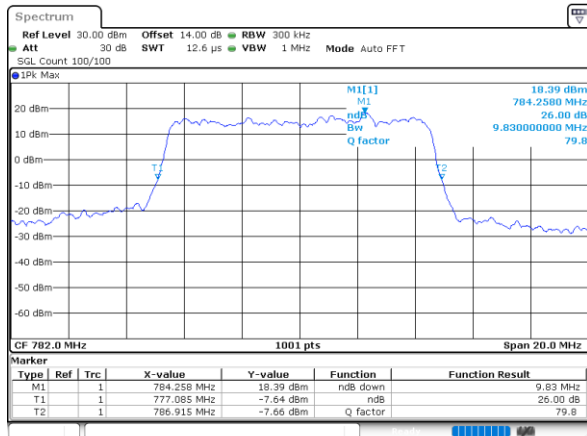
Date: 30,SEP,2024 12:30:41

Middle Channel / 5MHz / 16QAM



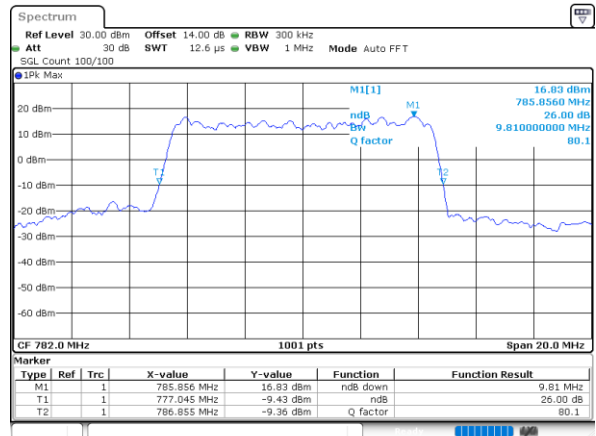
Date: 30,SEP,2024 12:31:24

Middle Channel / 10MHz / QPSK



Date: 30,SEP,2024 12:56:17

Middle Channel / 10MHz / 16QAM



Date: 30,SEP,2024 12:51:00



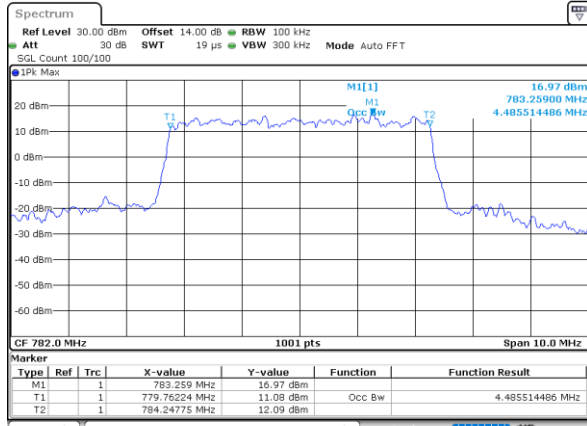
Occupied Bandwidth

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	4.51	9.01	8.97	-	-	-	-



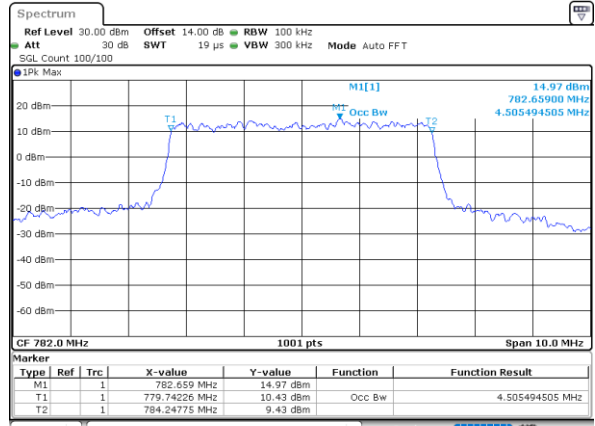
LTE Band 13

Middle Channel / 5MHz / QPSK



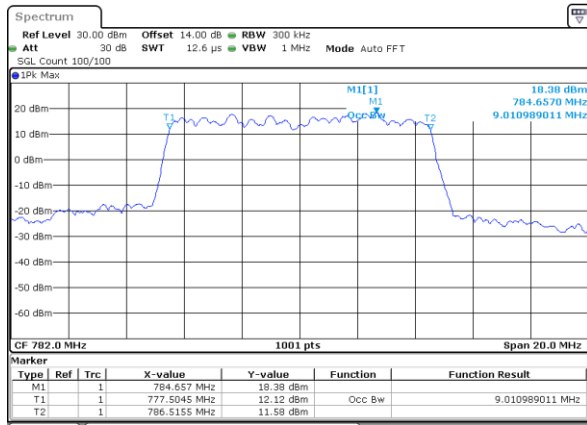
Date: 30,SEP,2024 12:30:27

Middle Channel / 5MHz / 16QAM



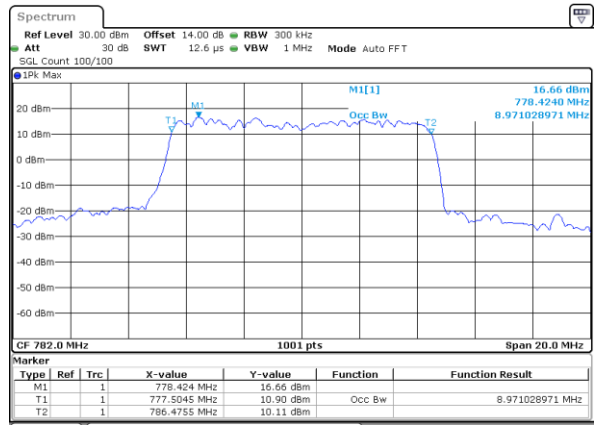
Date: 30,SEP,2024 12:31:10

Middle Channel / 10MHz / QPSK



Date: 30,SEP,2024 12:50:03

Middle Channel / 10MHz / 16QAM



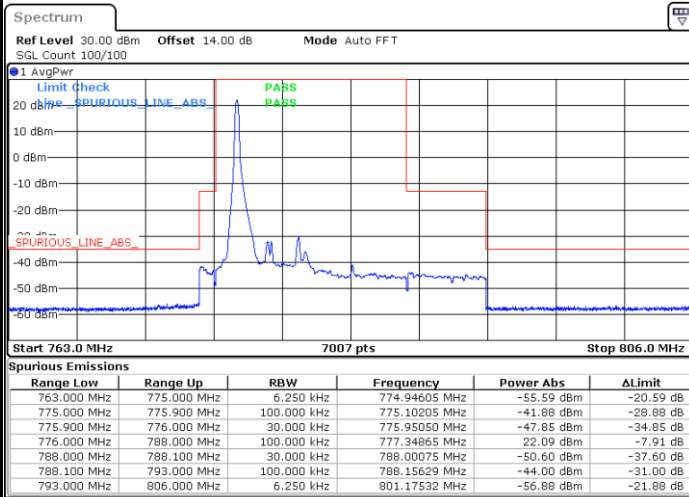
Date: 30,SEP,2024 12:50:46



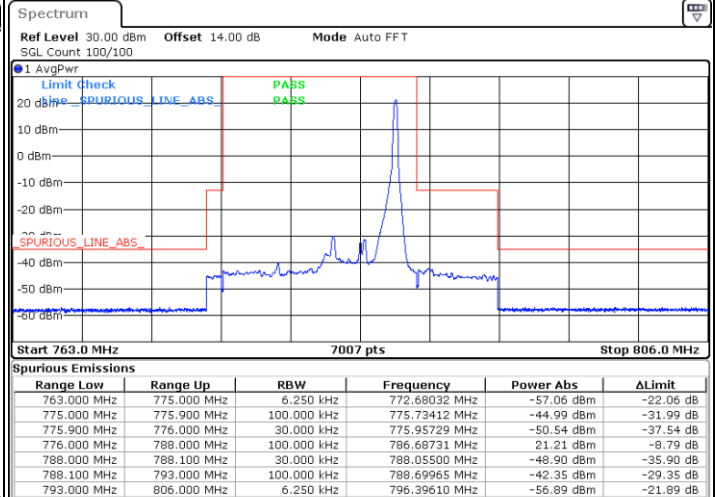
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

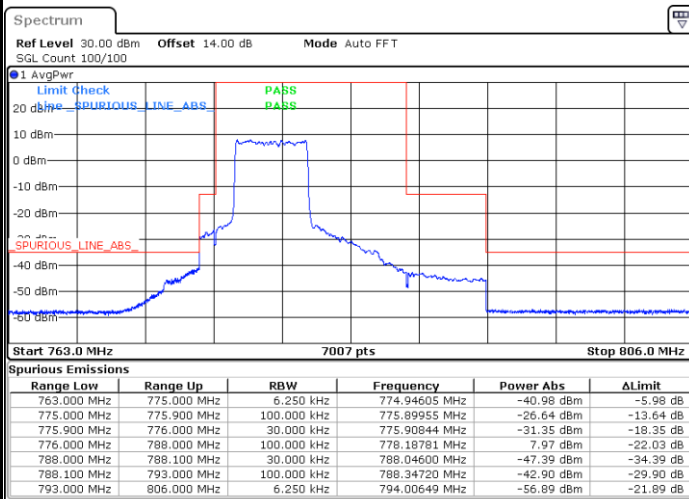
Lowest Band Edge / 1 RB



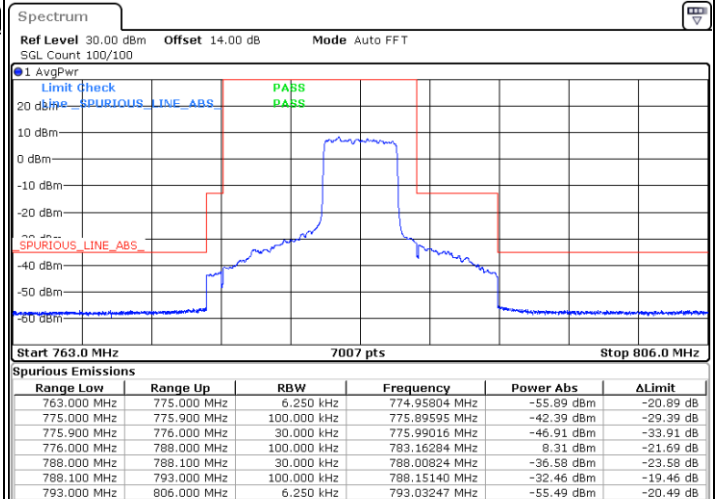
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



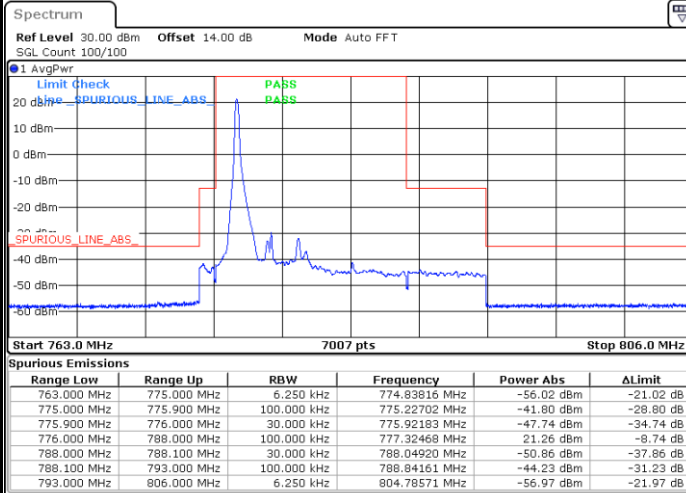
Highest Band Edge / Full RB





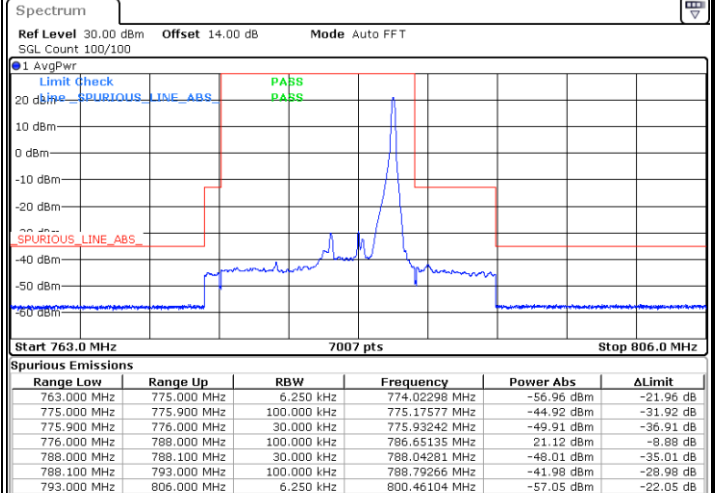
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



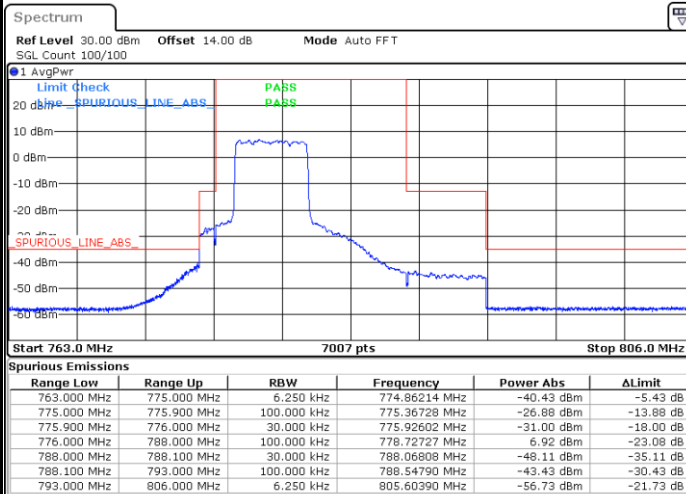
Date: 30.SEP.2024 12:23:28

Highest Band Edge / 1 RB



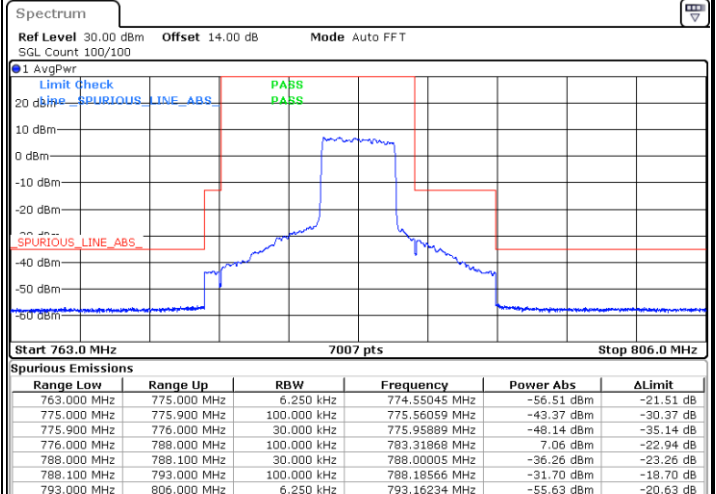
Date: 30.SEP.2024 12:33:30

Lowest Band Edge / Full RB



Date: 30.SEP.2024 12:26:39

Highest Band Edge / Full RB

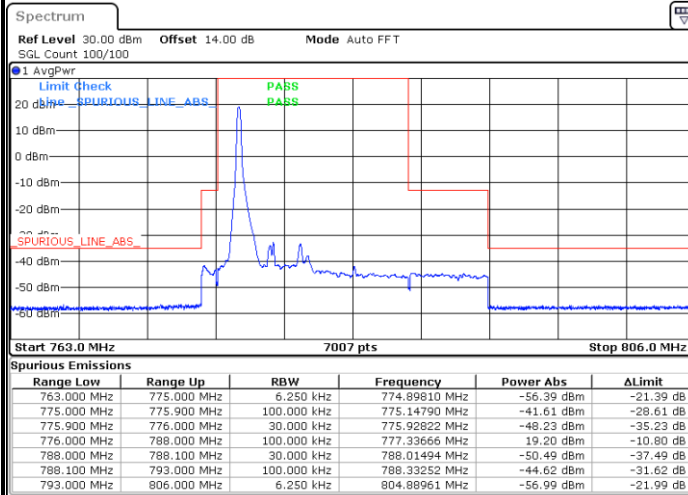


Date: 30.SEP.2024 12:36:41



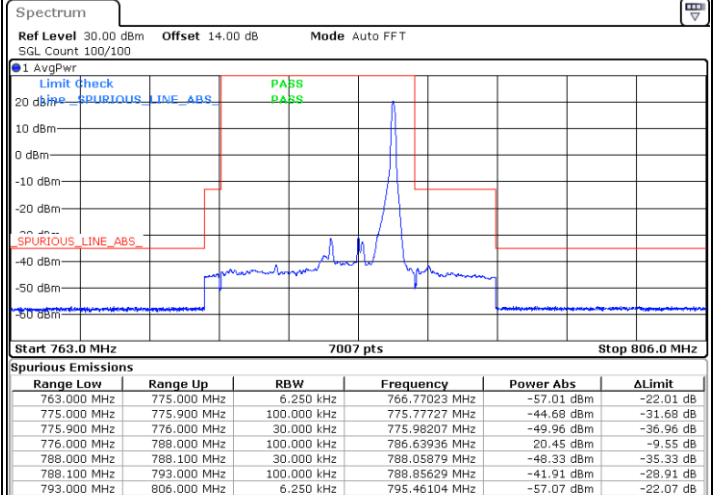
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



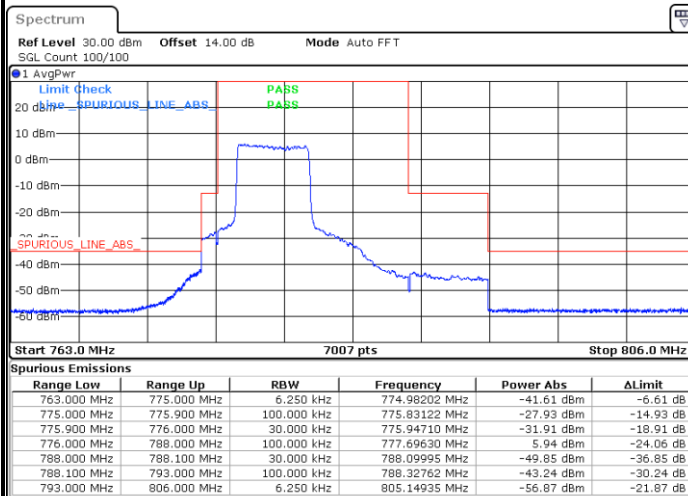
Date: 30.SEP.2024 12:24:31

Highest Band Edge / 1 RB



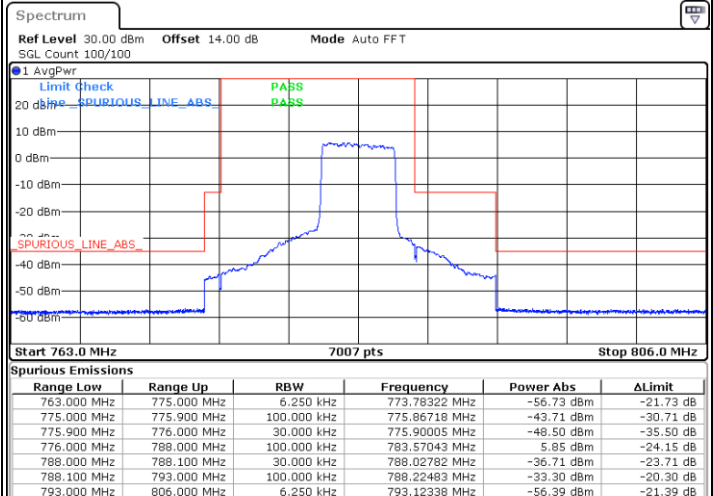
Date: 30.SEP.2024 12:34:34

Lowest Band Edge / Full RB



Date: 30.SEP.2024 12:27:42

Highest Band Edge / Full RB

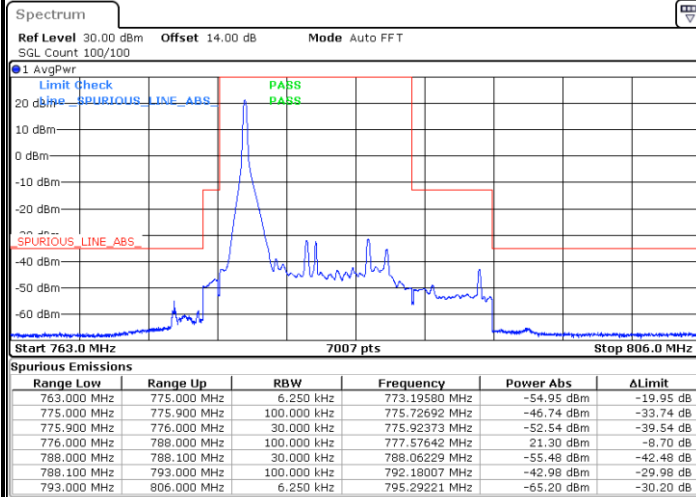


Date: 30.SEP.2024 12:37:44



LTE Band 13 / 10MHz / QPSK

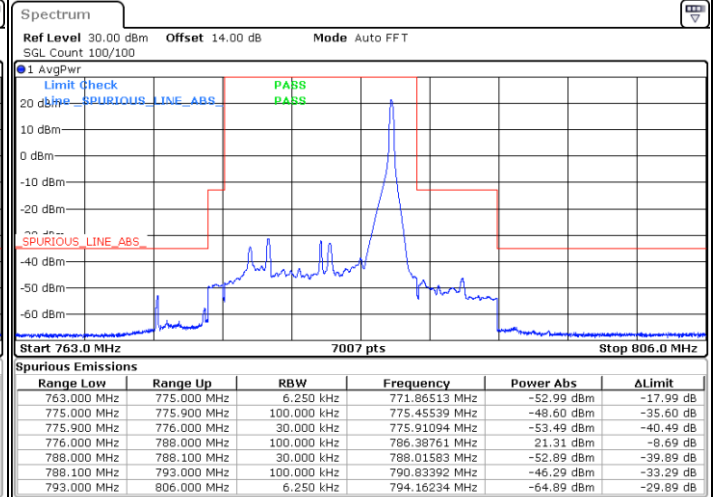
Band Edge / 1 RB



Date: 30.SEP.2024 12:40:01

LTE Band 13 / 10MHz / QPSK

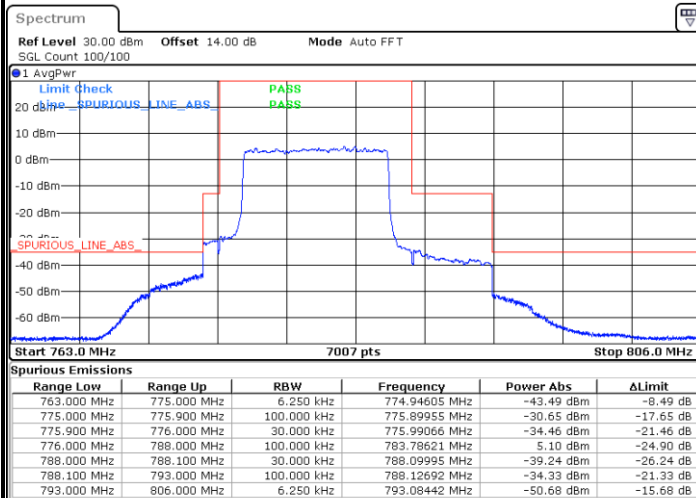
Band Edge / 1 RB



Date: 30.SEP.2024 12:43:11

LTE Band 13 / 10MHz / QPSK

Band Edge / Full RB



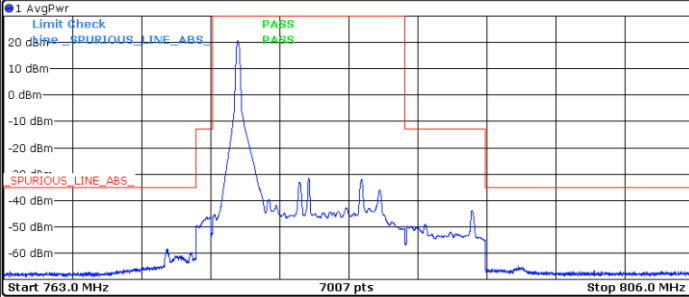
Date: 30.SEP.2024 12:46:20



LTE Band 13 / 10MHz / 16QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

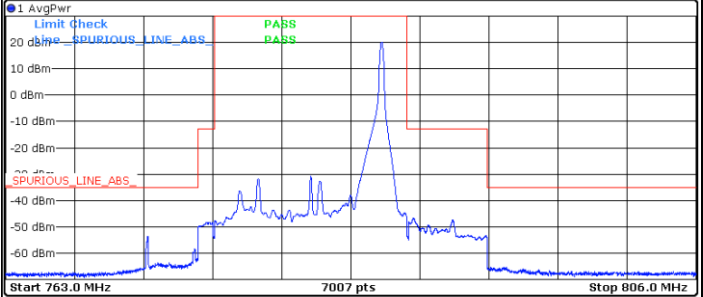
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.19580 MHz	-58.30 dBm	-23.30 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.64780 MHz	-46.47 dBm	-33.47 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96349 MHz	-52.31 dBm	-39.31 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.57642 MHz	20.70 dBm	-9.30 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09795 MHz	-56.22 dBm	-43.22 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.17028 MHz	-43.90 dBm	-30.90 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.04545 MHz	-65.10 dBm	-30.10 dB

Date: 30.SEP.2024 12:41:04

LTE Band 13 / 10MHz / 16QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

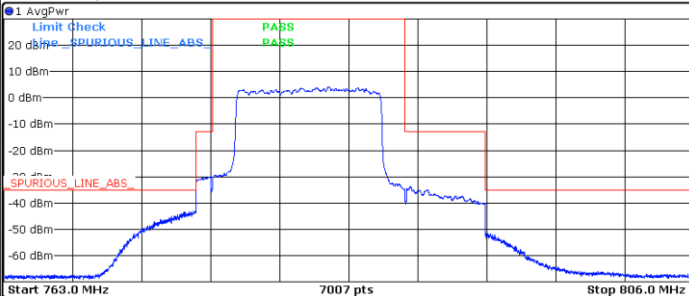
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.84116 MHz	-53.65 dBm	-18.65 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.68467 MHz	-48.29 dBm	-35.29 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-53.52 dBm	-40.52 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.41159 MHz	20.20 dBm	-9.80 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-53.50 dBm	-40.50 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.40105 MHz	-46.85 dBm	-33.85 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.17532 MHz	-65.45 dBm	-30.45 dB

Date: 30.SEP.2024 12:44:14

LTE Band 13 / 10MHz / 16QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.95804 MHz	-42.96 dBm	-7.96 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.81054 MHz	-30.05 dBm	-17.05 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98986 MHz	-34.64 dBm	-21.64 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.27073 MHz	4.00 dBm	-26.00 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07248 MHz	-39.13 dBm	-26.13 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.32762 MHz	-33.90 dBm	-20.90 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.31818 MHz	-51.71 dBm	-16.71 dB

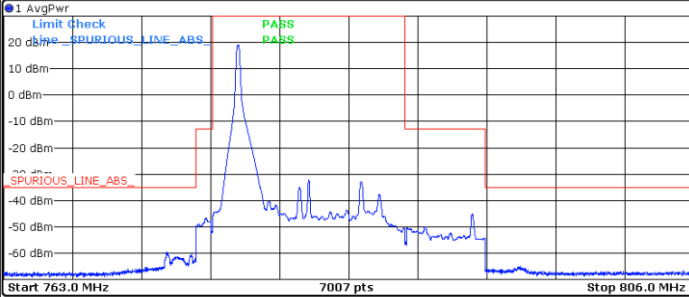
Date: 30.SEP.2024 12:47:23



LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

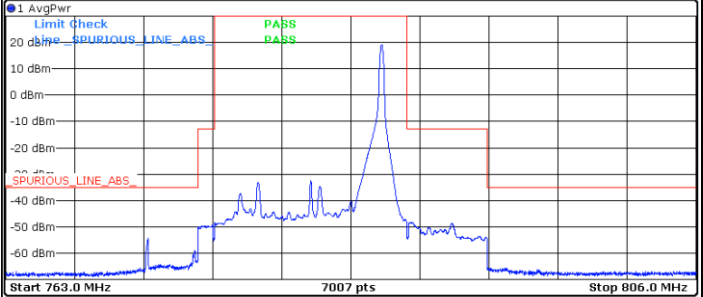
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.18382 MHz	-59.65 dBm	-24.65 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.58756 MHz	-46.83 dBm	-33.83 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-51.45 dBm	-38.45 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.60040 MHz	19.16 dBm	-10.84 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02682 MHz	-55.82 dBm	-42.82 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.18007 MHz	-45.11 dBm	-32.11 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.14935 MHz	-64.98 dBm	-29.98 dB

Date: 30.SEP.2024 12:42:08

LTE Band 13 / 10MHz / 64QAM

Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

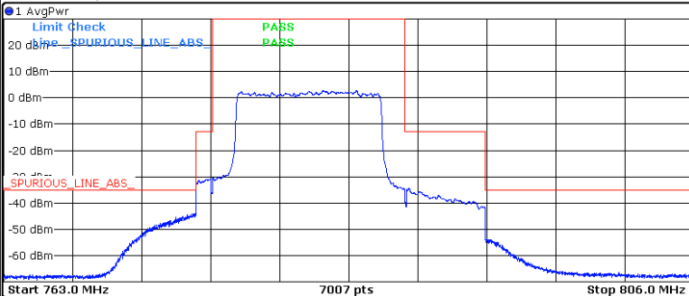
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.86513 MHz	-54.41 dBm	-19.41 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-49.29 dBm	-36.29 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.91723 MHz	-54.34 dBm	-41.34 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.42358 MHz	19.12 dBm	-10.88 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07537 MHz	-53.91 dBm	-40.91 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.20524 MHz	-48.42 dBm	-35.42 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.04545 MHz	-65.62 dBm	-30.62 dB

Date: 30.SEP.2024 12:45:17

LTE Band 13 / 10MHz / 64QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT
SGL Count 100/100

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.95804 MHz	-43.75 dBm	-8.75 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.80425 MHz	-31.00 dBm	-18.00 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-36.13 dBm	-23.13 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.97303 MHz	2.71 dBm	-27.29 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00485 MHz	-39.58 dBm	-26.58 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.23951 MHz	-34.43 dBm	-21.43 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.12338 MHz	-53.67 dBm	-18.67 dB

Date: 30.SEP.2024 12:48:26