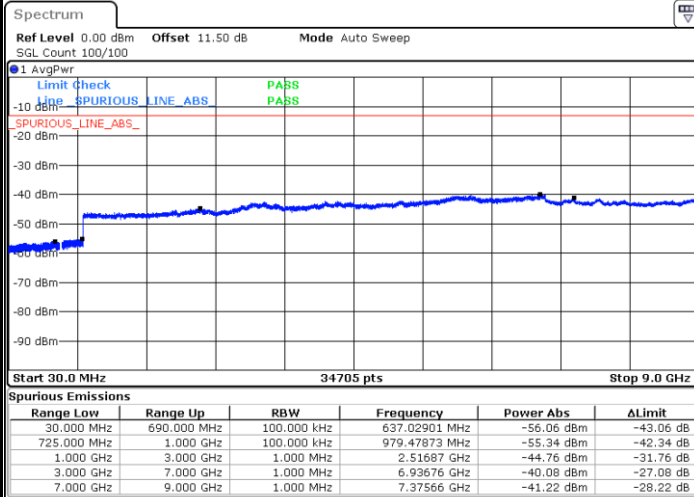




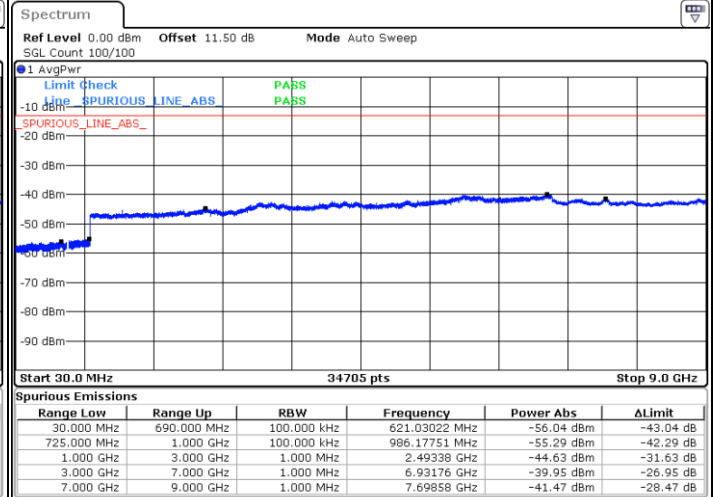
LTE Band 12 / 5MHz

Lowest Channel / QPSK



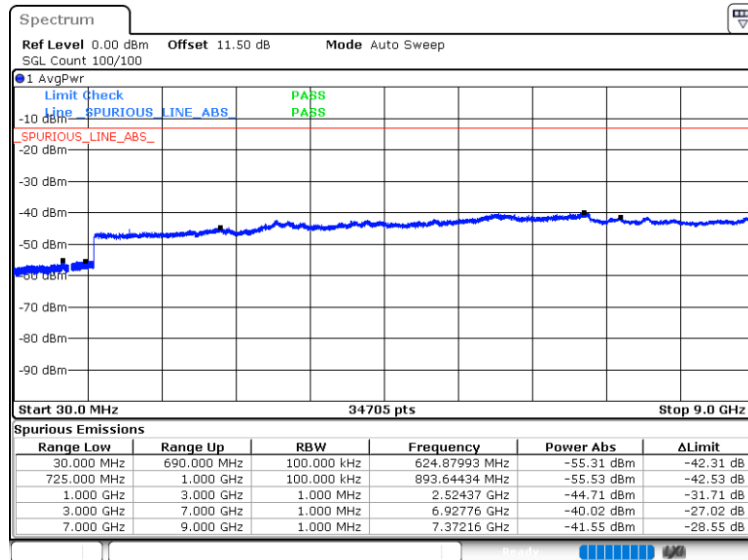
Date: 27.NOV.2024 23:58:55

Middle Channel / QPSK



Date: 28.NOV.2024 00:00:23

Highest Channel / QPSK

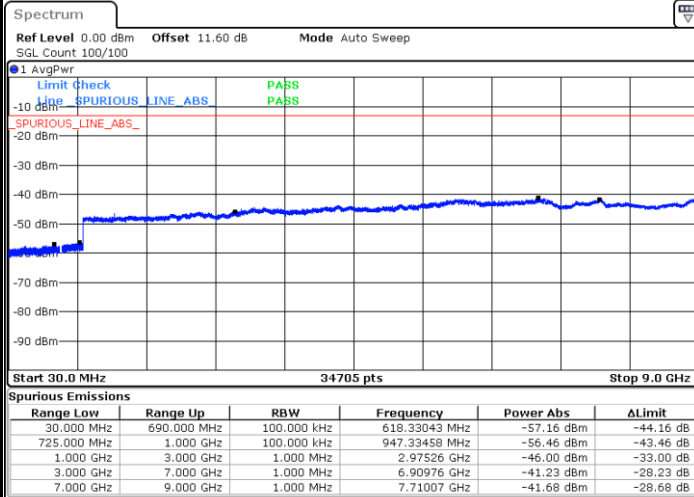


Date: 28.NOV.2024 00:01:53



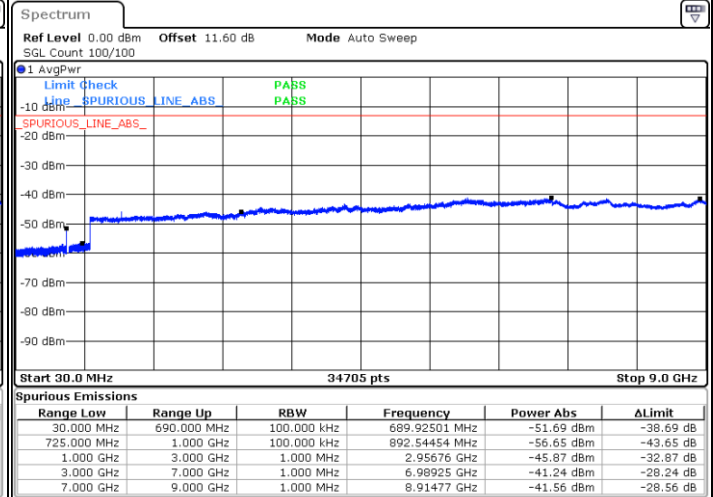
LTE Band 12 / 10MHz

Lowest Channel / QPSK



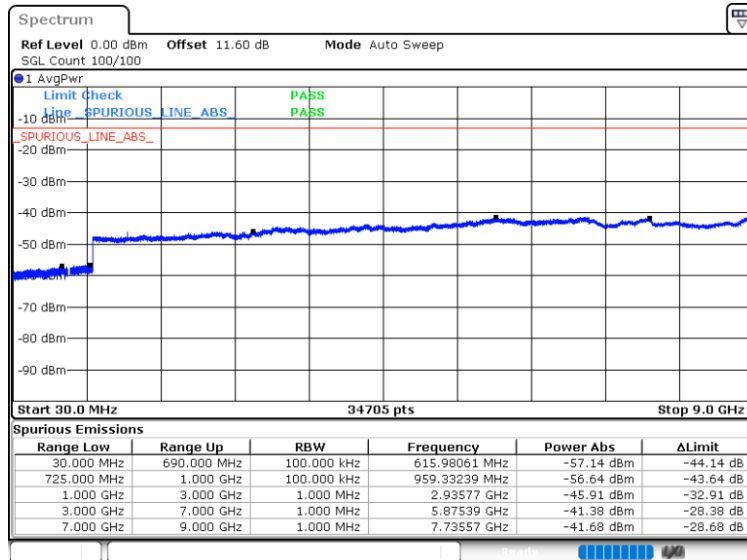
Date: 27.FEB.2025 14:59:01

Middle Channel / QPSK



Date: 27.FEB.2025 15:00:13

Highest Channel / QPSK



Date: 27.FEB.2025 15:01:25

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0006	PASS
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0019	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0052	

Note:

1. Normal Voltage = 3.88 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

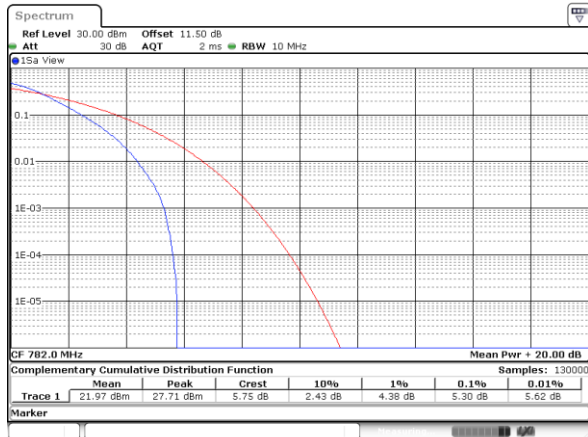
**LTE Band 13****Peak-to-Average Ratio**

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.30	6.17	6.29	-	PASS



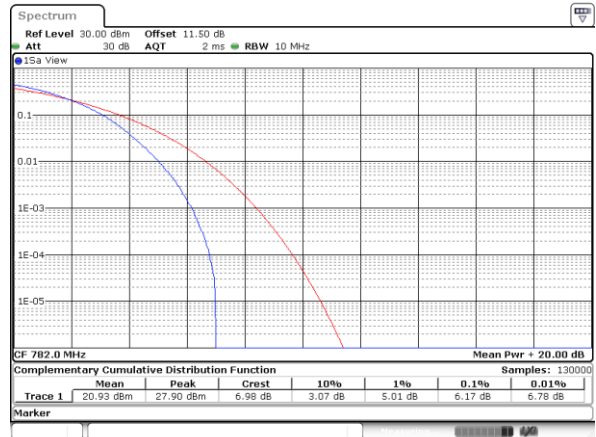
LTE Band 13 / 10MHz / QPSK

Middle Channel / Full RB



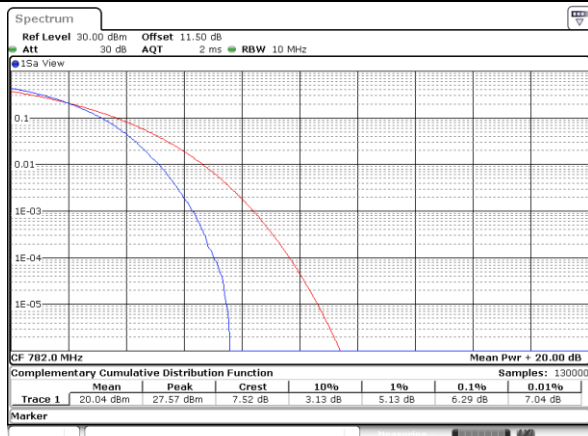
LTE Band 13 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB



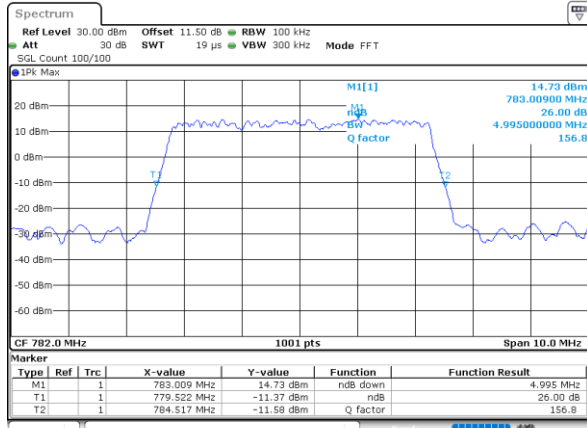
**26dB Bandwidth**

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	-	-	-	-	4.99	4.94	9.75	9.65	-	-	-	-
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	-	-	-	-	4.83	-	10.00	-	-	-	-	-



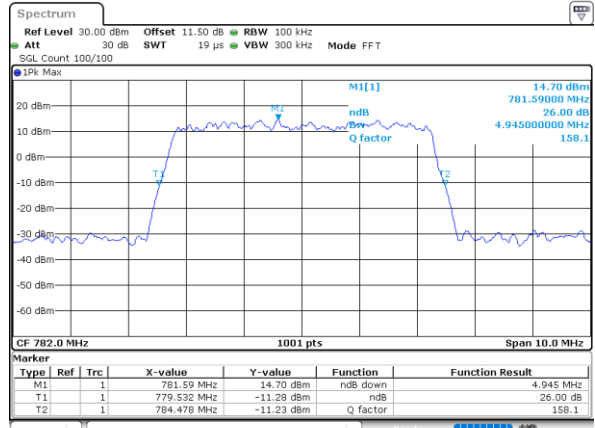
LTE Band 13

Middle Channel / 5MHz / QPSK



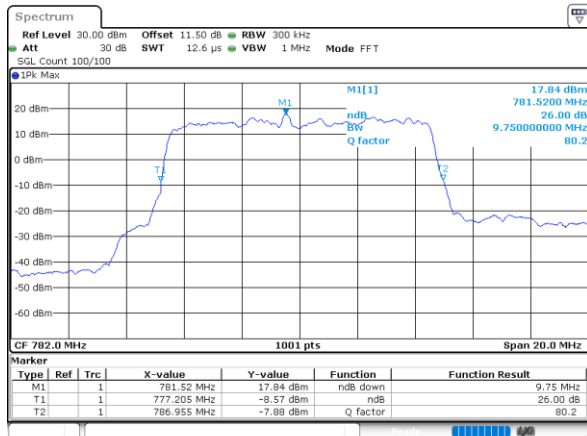
Date: 28.NOV.2024 00:17:46

Middle Channel / 5MHz / 16QAM



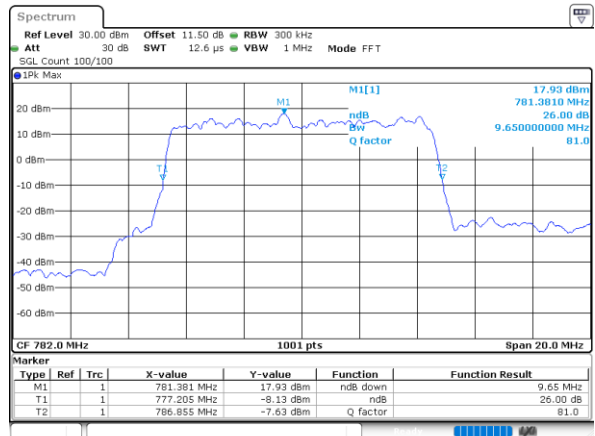
Date: 28.NOV.2024 00:18:19

Middle Channel / 10MHz / QPSK



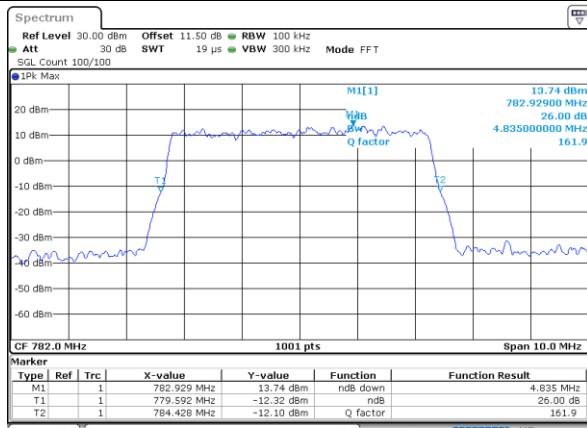
Date: 28.NOV.2024 06:34:52

Middle Channel / 10MHz / 16QAM



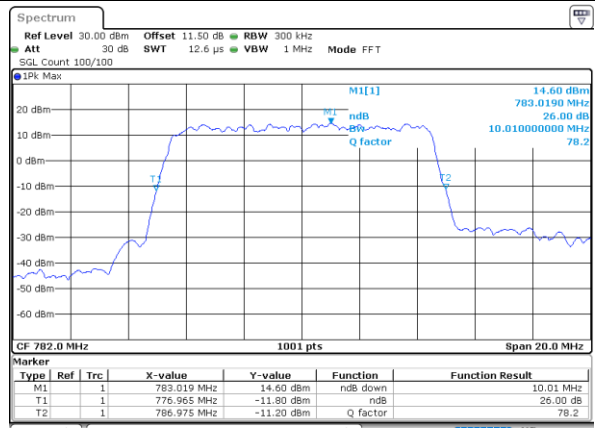
Date: 28.NOV.2024 06:35:30

Middle Channel / 5MHz / 64QAM



Date: 28.NOV.2024 00:19:10

Middle Channel / 10MHz / 64QAM



Date: 28.NOV.2024 08:36:05

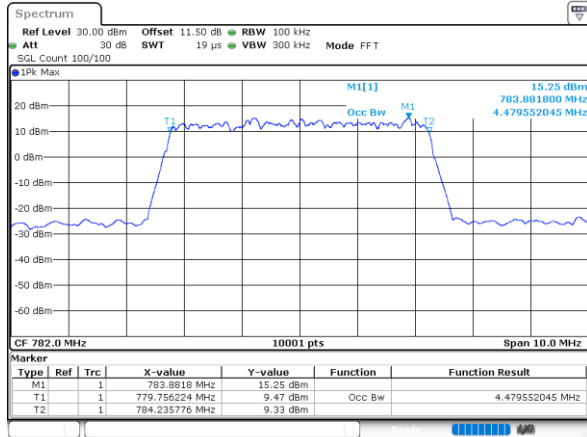
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.50	8.99	9.00	-	-	-	-
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	-	-	-	-	4.45	-	9.02	-	-	-	-	-



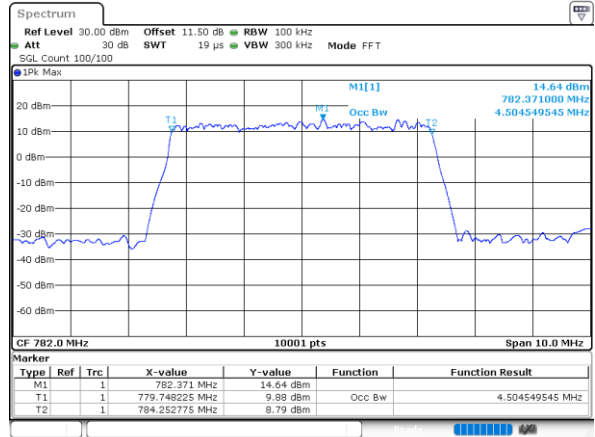
LTE Band 13

Middle Channel / 5MHz / QPSK



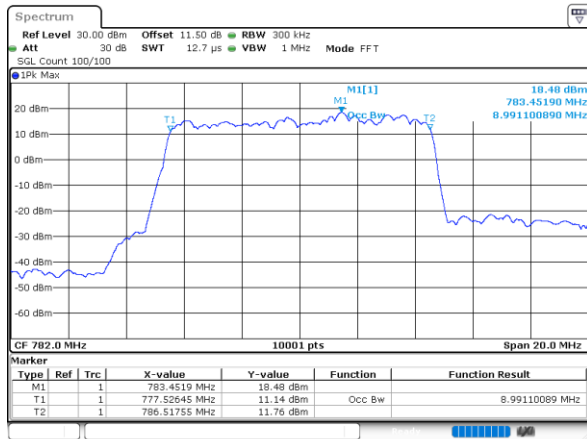
Date: 28.NOV.2024 00:16:02

Middle Channel / 5MHz / 16QAM



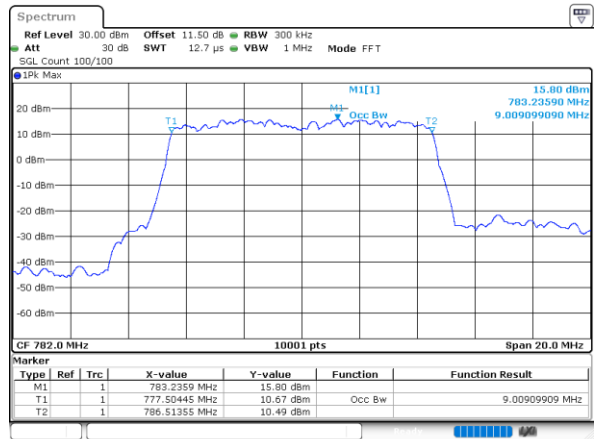
Date: 28.NOV.2024 00:16:36

Middle Channel / 10MHz / QPSK



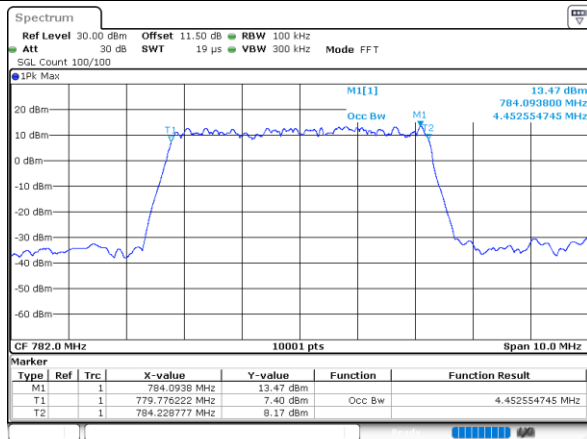
Date: 28.NOV.2024 06:32:52

Middle Channel / 10MHz / 16QAM



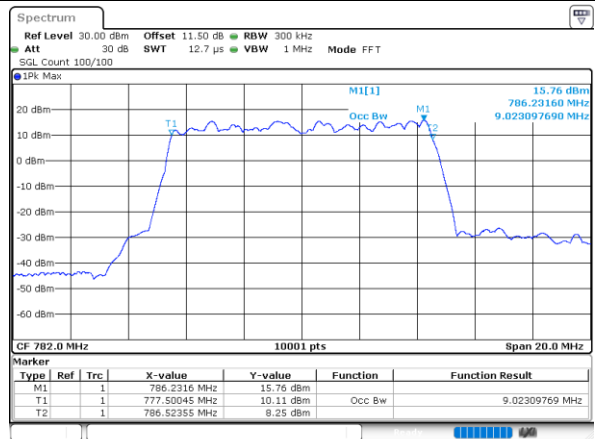
Date: 28.NOV.2024 06:33:28

Middle Channel / 5MHz / 64QAM

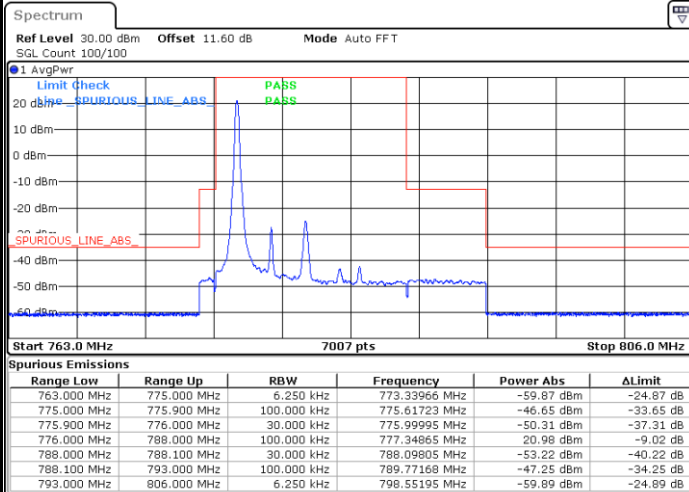
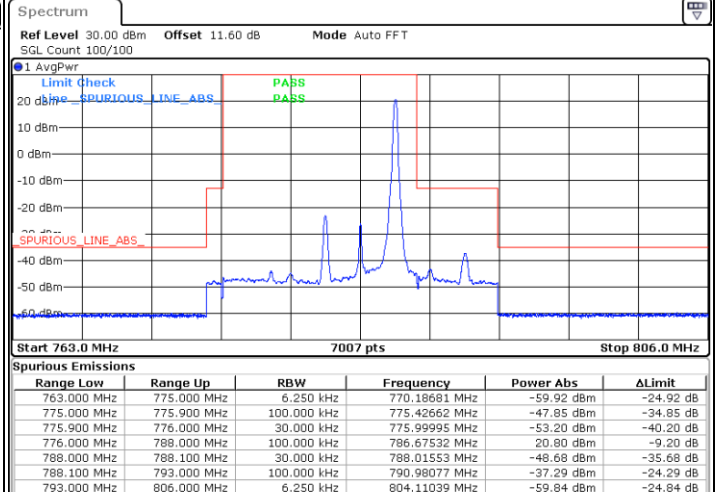
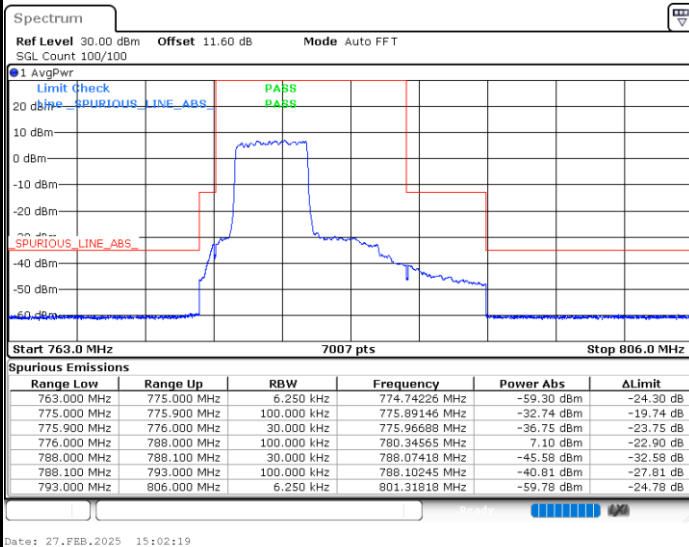
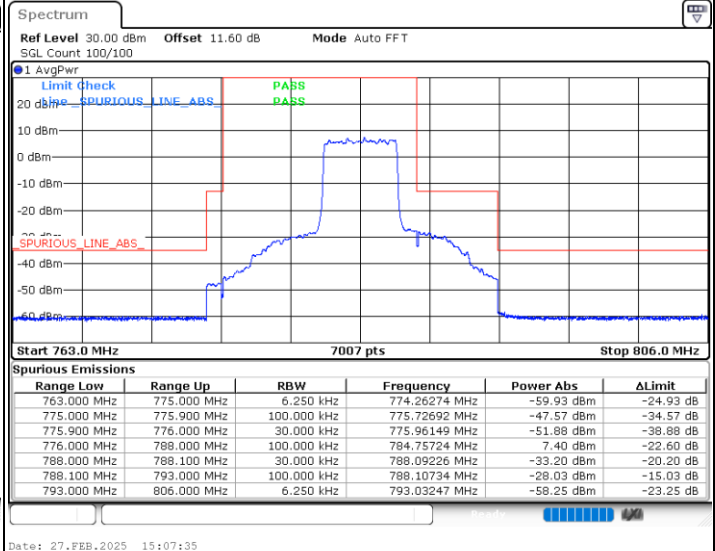


Date: 28.NOV.2024 00:17:11

Middle Channel / 10MHz / 64QAM



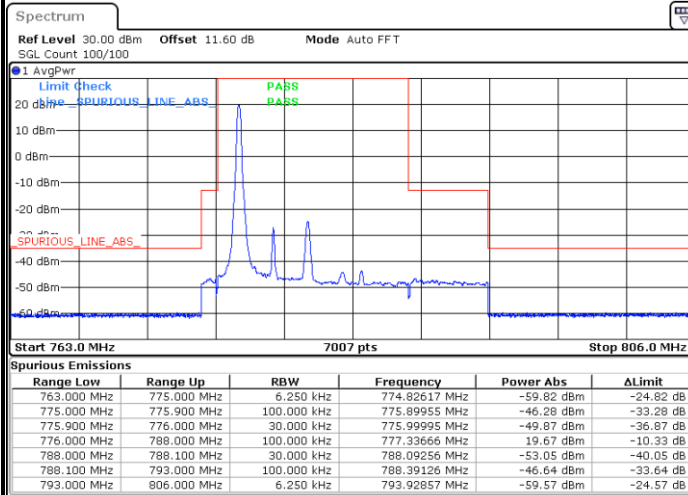
Date: 28.NOV.2024 08:34:03

**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**



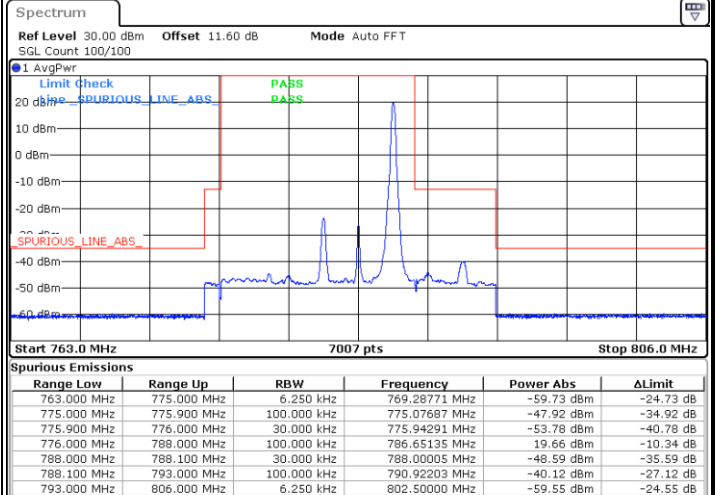
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



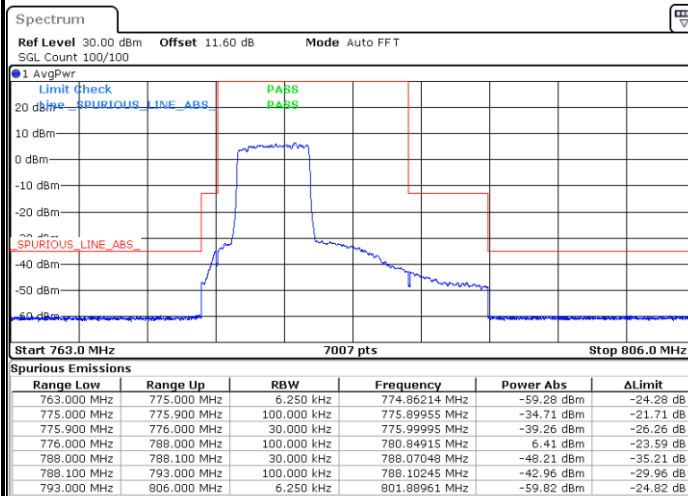
Date: 27.FEB.2025 15:05:50

Highest Band Edge / 1 RB



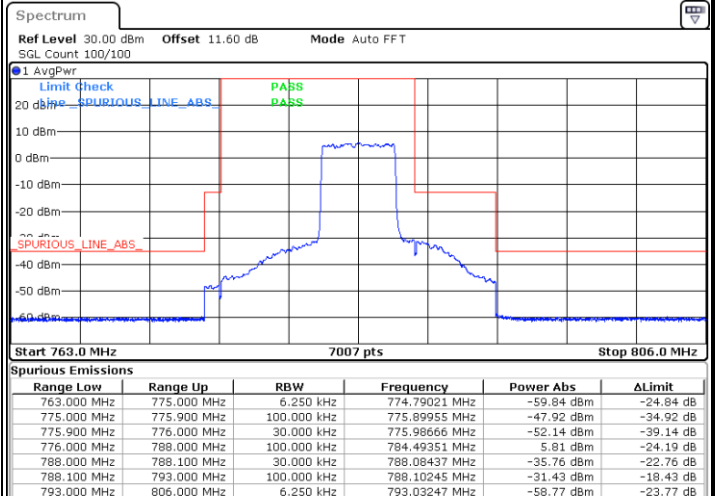
Date: 27.FEB.2025 15:11:06

Lowest Band Edge / Full RB



Date: 27.FEB.2025 15:03:12

Highest Band Edge / Full RB

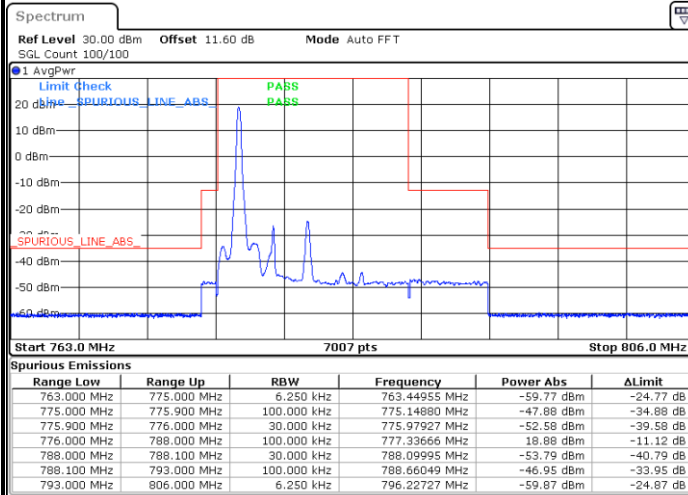


Date: 27.FEB.2025 15:08:28



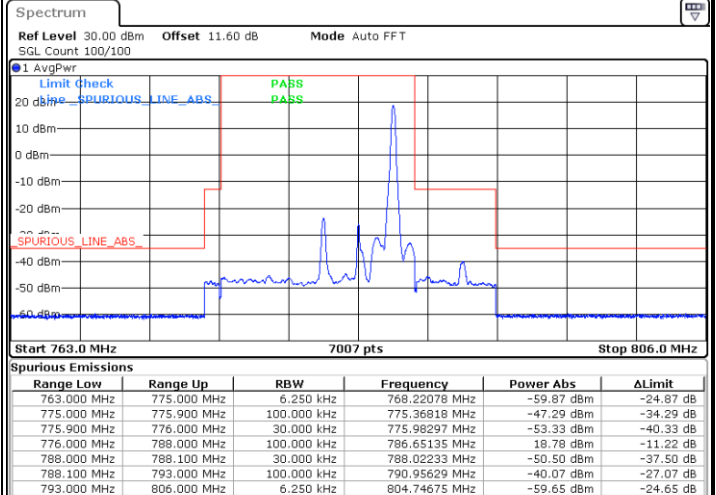
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



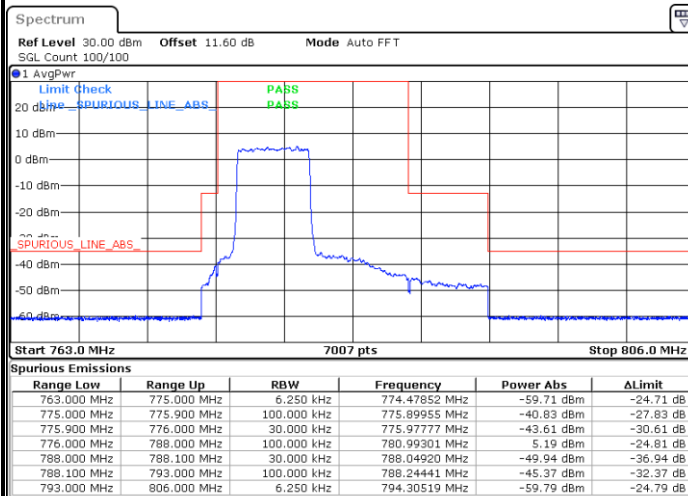
Date: 27.FEB.2025 15:06:43

Highest Band Edge / 1 RB



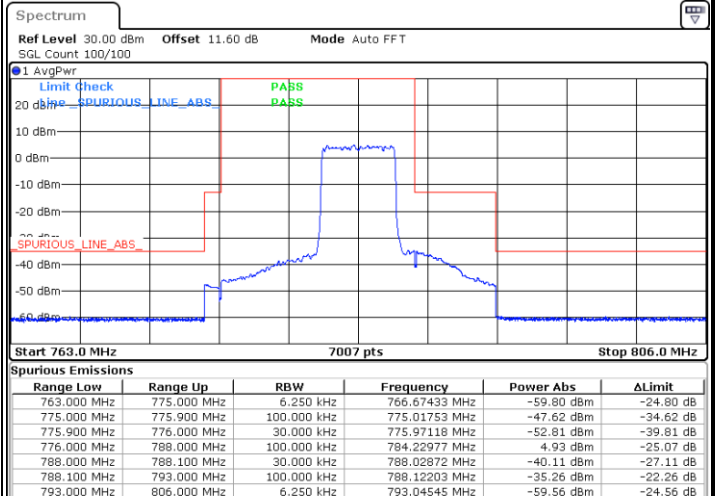
Date: 27.FEB.2025 15:11:58

Lowest Band Edge / Full RB



Date: 27.FEB.2025 15:04:05

Highest Band Edge / Full RB



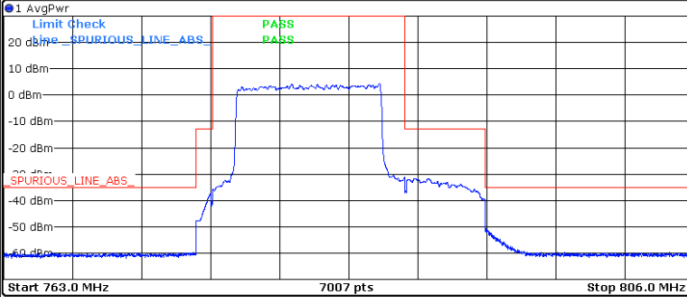
Date: 27.FEB.2025 15:09:20



LTE Band 13 / 10MHz / QPSK

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.60 dB Mode Auto FFT
SGL Count 100/100

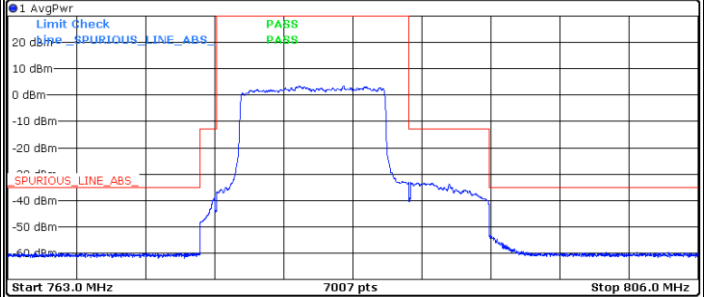
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.81419 MHz	-59.71 dBm	-24.71 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-37.39 dBm	-24.39 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96169 MHz	-40.53 dBm	-27.53 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.41159 MHz	-4.41 dBm	-25.59 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06998 MHz	-36.33 dBm	-23.33 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.58706 MHz	-31.82 dBm	-18.82 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.07143 MHz	-50.74 dBm	-15.74 dB

Date: 27.FEB.2025 15:12:51

LTE Band 13 / 10MHz / 16QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.60 dB Mode Auto FFT
SGL Count 100/100

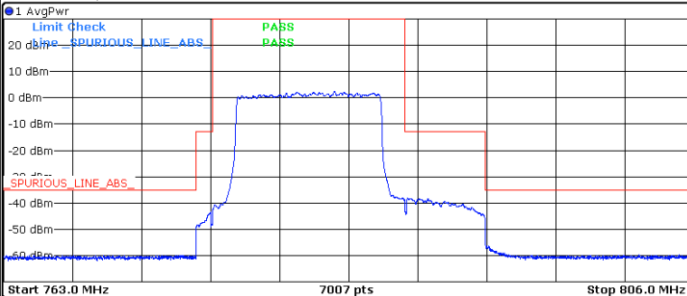
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	764.03696 MHz	-59.90 dBm	-24.90 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-38.92 dBm	-25.92 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-43.19 dBm	-30.19 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.90609 MHz	-3.54 dBm	-26.46 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08347 MHz	-38.65 dBm	-25.65 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-33.27 dBm	-20.27 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.12338 MHz	-53.35 dBm	-18.35 dB

Date: 27.FEB.2025 15:13:43

LTE Band 13 / 10MHz / 64QAM

Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 11.60 dB Mode Auto FFT
SGL Count 100/100

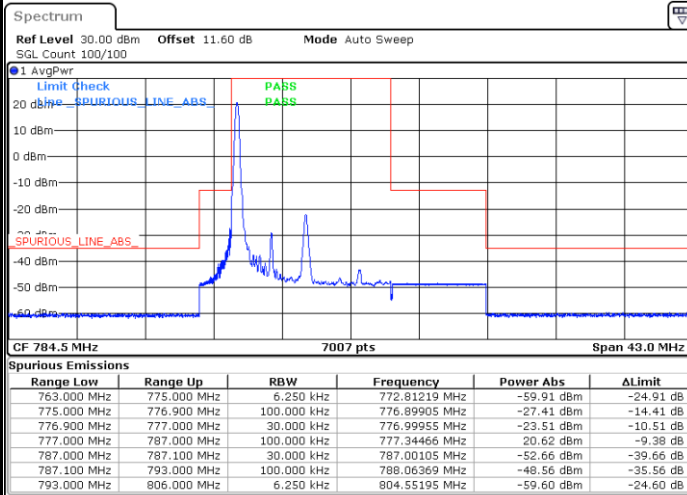
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.70030 MHz	-59.88 dBm	-24.88 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-43.45 dBm	-30.45 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-47.57 dBm	-34.57 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.60639 MHz	-2.46 dBm	-27.54 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-43.07 dBm	-30.07 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16119 MHz	-38.27 dBm	-25.27 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-56.02 dBm	-21.02 dB

Date: 27.FEB.2025 15:14:35



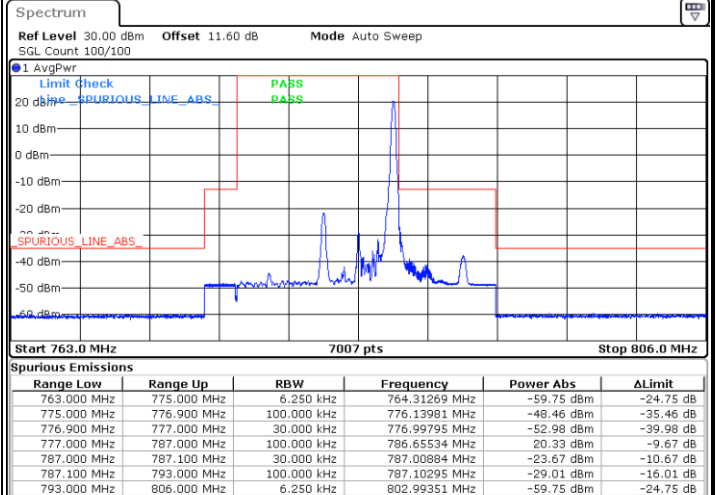
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



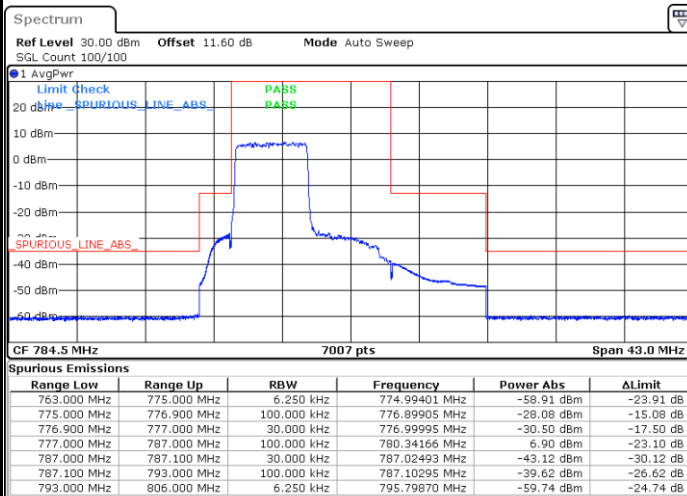
Date: 27.FEB.2025 17:30:58

Highest Band Edge / 1 RB



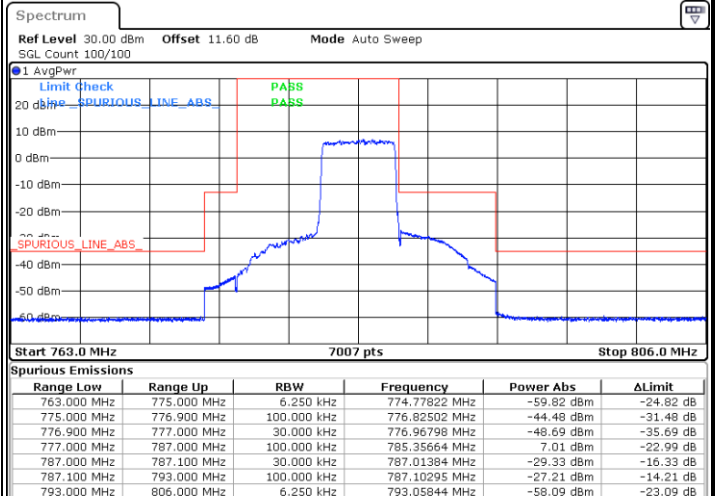
Date: 27.FEB.2025 17:36:17

Lowest Band Edge / Full RB



Date: 27.FEB.2025 17:28:19

Highest Band Edge / Full RB

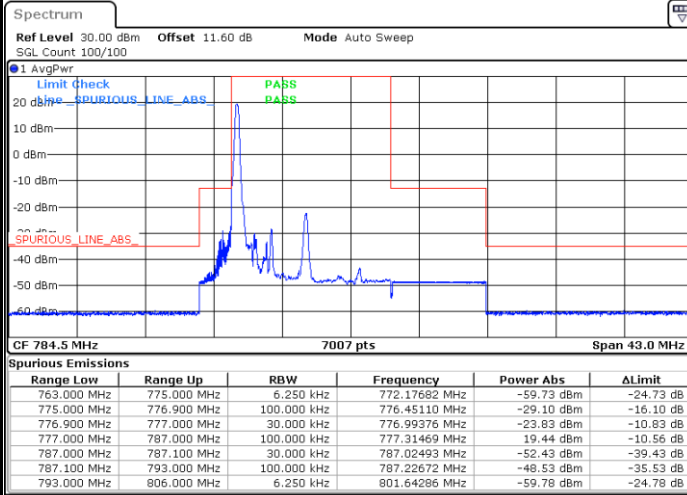


Date: 27.FEB.2025 17:33:37



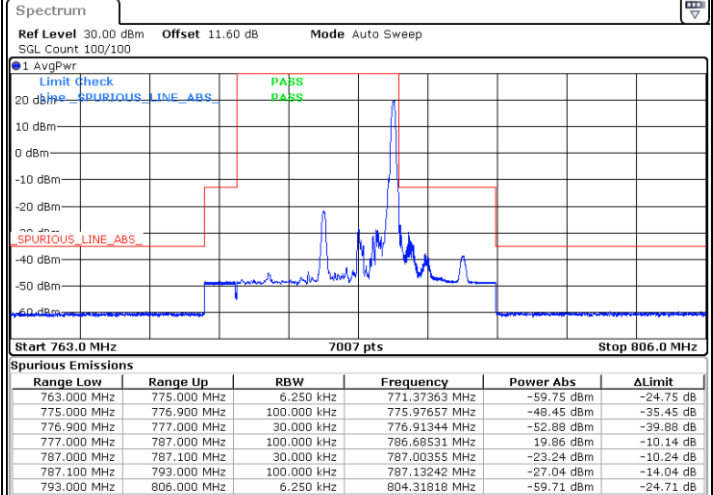
IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



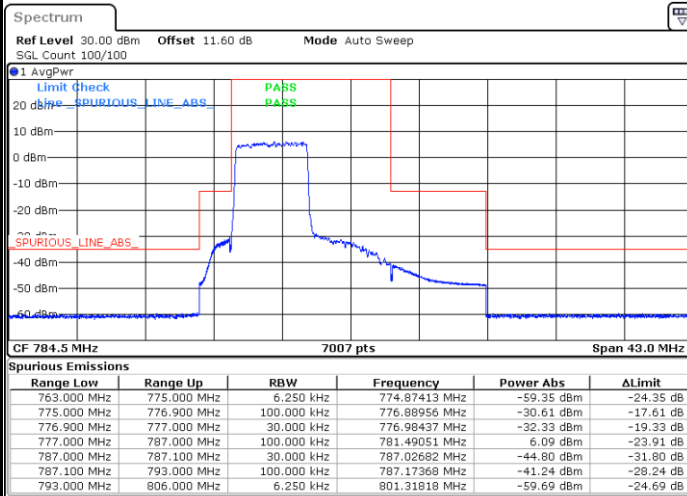
Date: 27.FEB.2025 17:31:51

Highest Band Edge / 1 RB



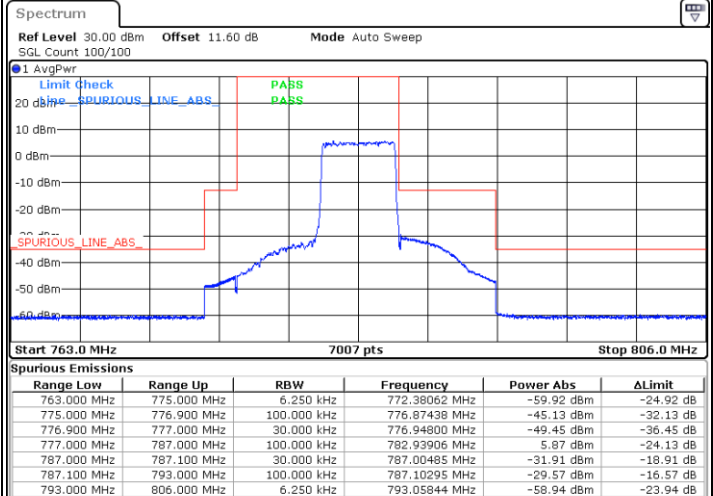
Date: 27.FEB.2025 17:37:10

Lowest Band Edge / Full RB



Date: 27.FEB.2025 17:29:12

Highest Band Edge / Full RB

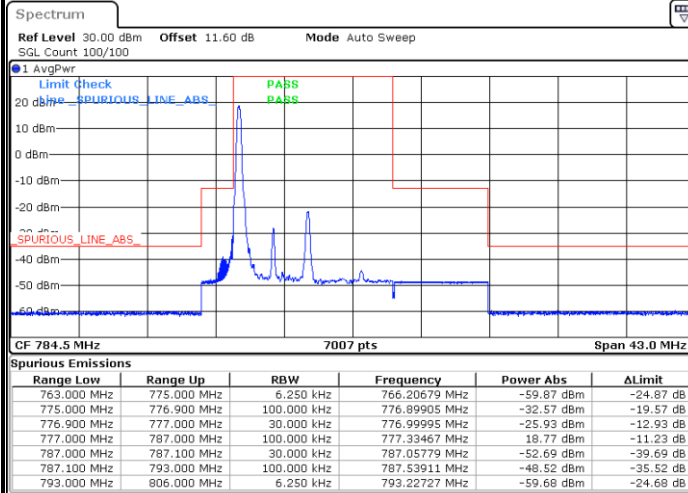


Date: 27.FEB.2025 17:34:30



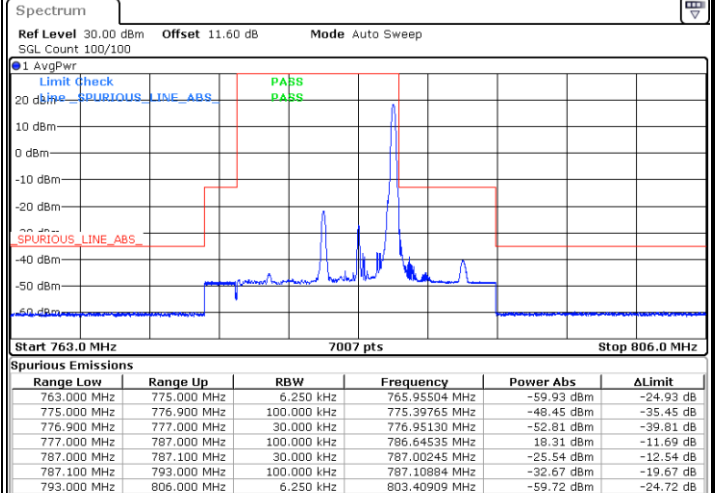
IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



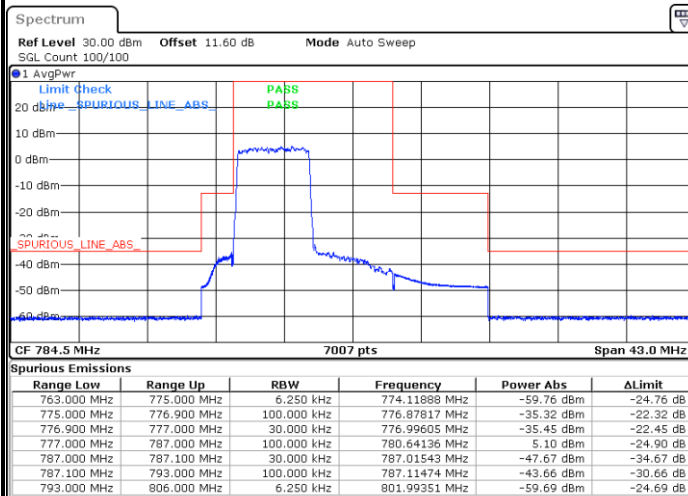
Date: 27.FEB.2025 17:32:44

Highest Band Edge / 1 RB



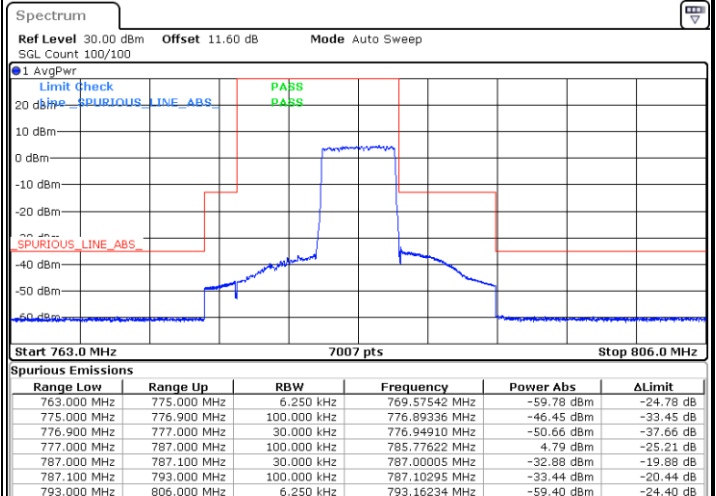
Date: 27.FEB.2025 17:38:03

Lowest Band Edge / Full RB



Date: 27.FEB.2025 17:30:05

Highest Band Edge / Full RB

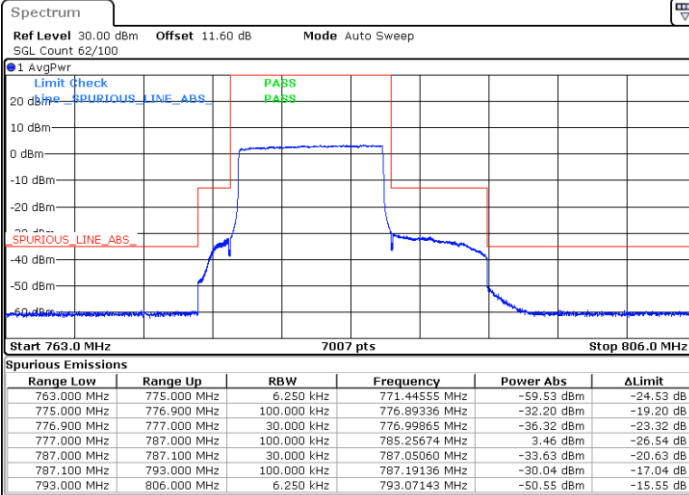


Date: 27.FEB.2025 17:35:23



IC LTE Band 13 / 10MHz / QPSK

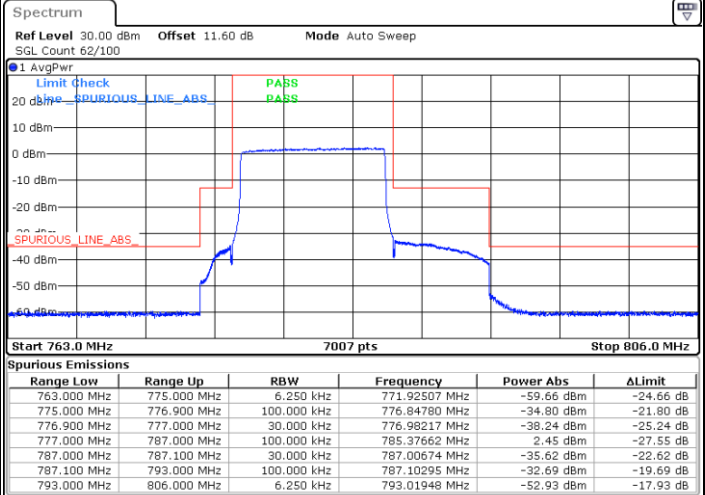
Band Edge / Full RB



Date: 27.FEB.2025 17:38:56

IC LTE Band 13 / 10MHz / 16QAM

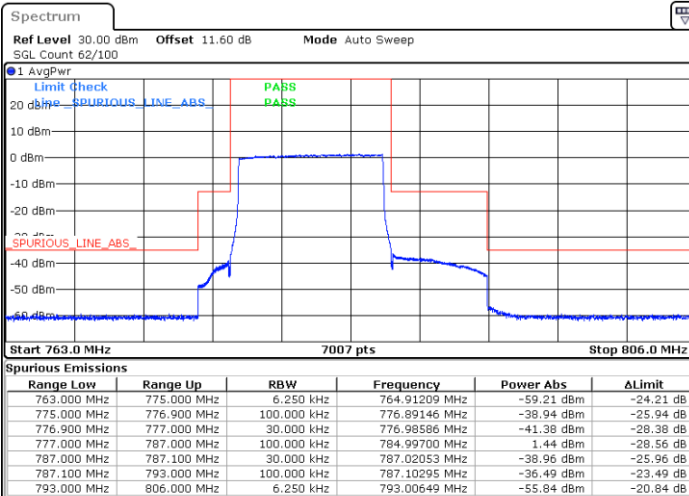
Band Edge / Full RB



Date: 27.FEB.2025 17:39:48

IC LTE Band 13 / 10MHz / 64QAM

Band Edge / Full RB



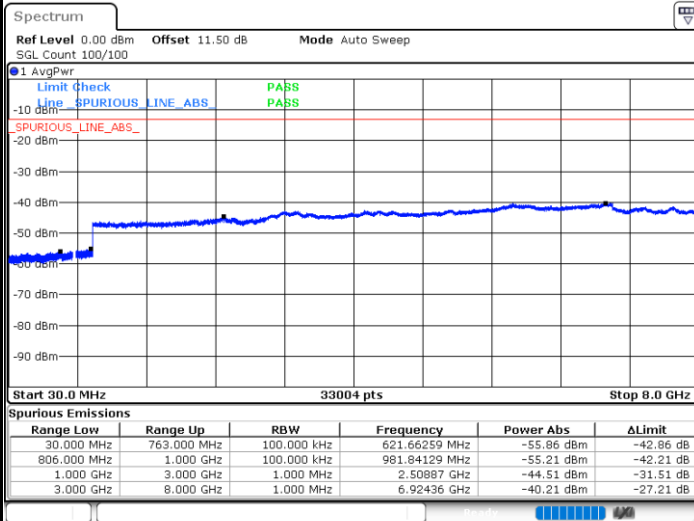
Date: 27.FEB.2025 17:40:41



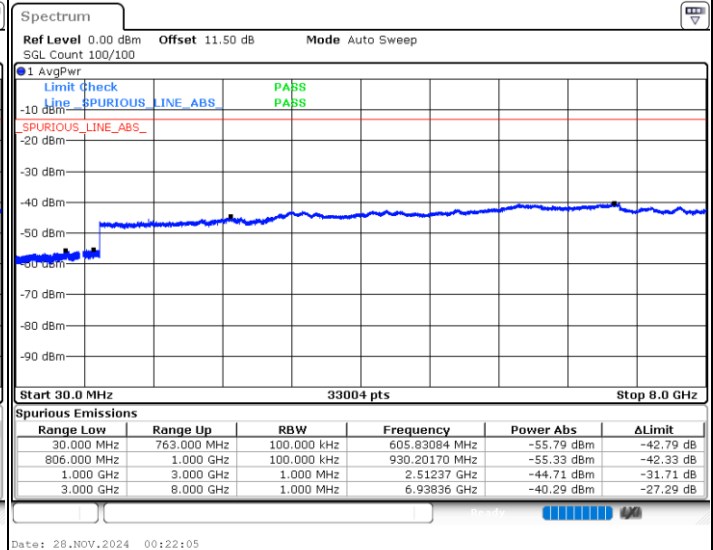
Conducted Spurious Emission

LTE Band 13 / 5MHz

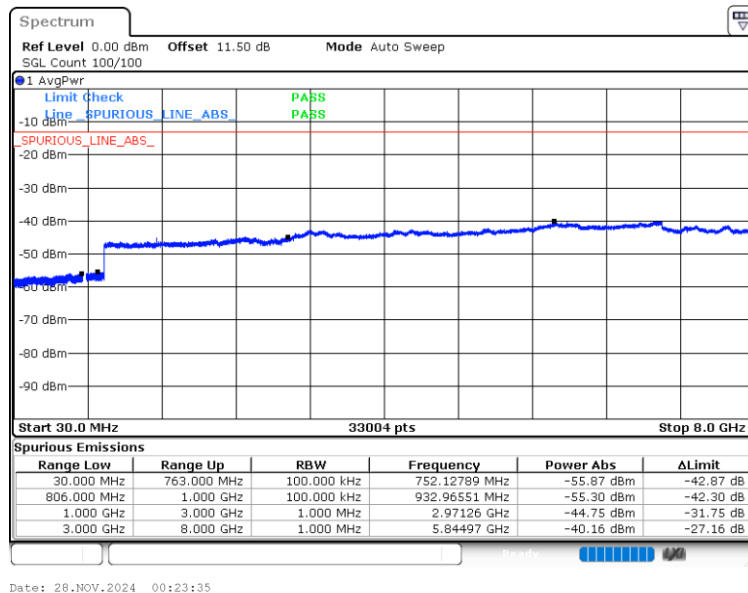
Lowest Channel / QPSK



Middle Channel / QPSK



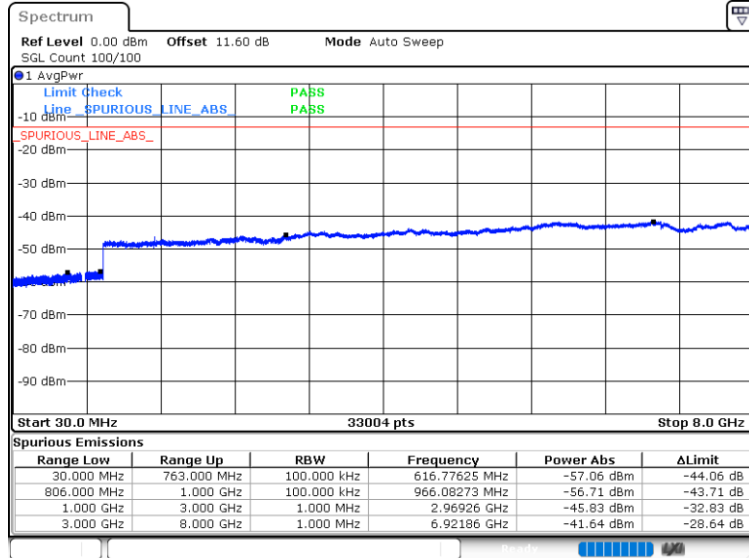
Highest Channel / QPSK





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 27.FEB.2025 15:15:47

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0109	PASS
30	Normal Voltage	0.0083	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0205	
0	Normal Voltage	0.0115	
20	Maximum Voltage	0.0136	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0001	

Note:

1. Normal Voltage =3.88 V. ; Minimum Voltage =3.6 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

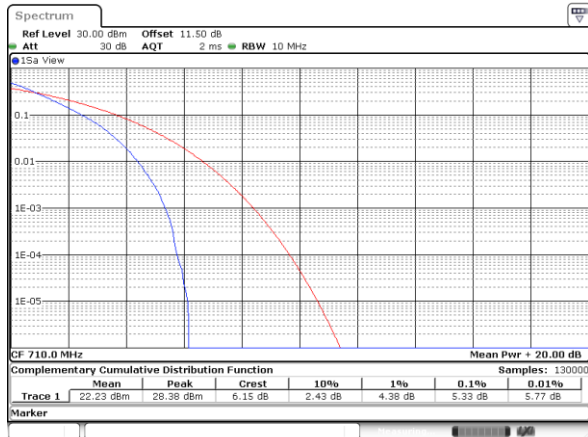
Peak-to-Average Ratio

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	5.33	6.03	6.38	-	PASS



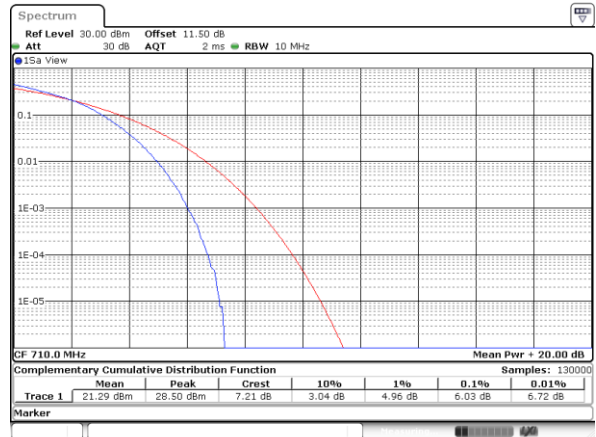
LTE Band 17 / 10MHz / QPSK

Middle Channel / Full RB



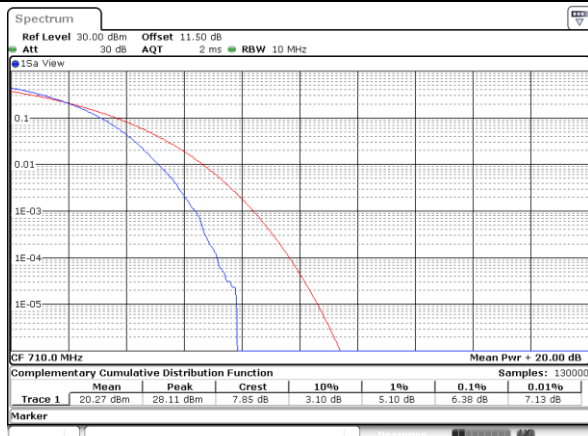
LTE Band 17 / 10MHz / 16QAM

Middle Channel / Full RB



LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



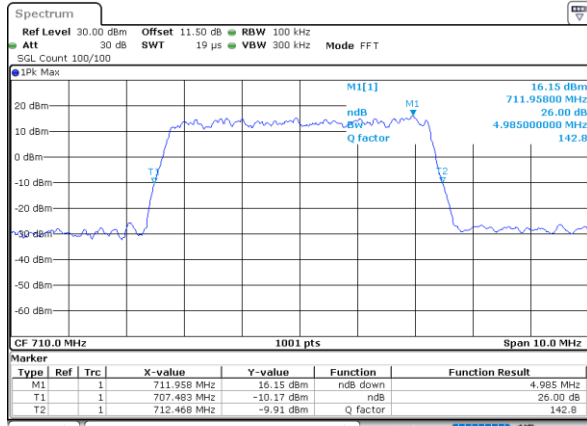
**26dB Bandwidth**

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	-	-	-	-	4.98	4.93	9.91	9.73	-	-	-	-
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	-	-	-	-	4.88	-	10.05	-	-	-	-	-



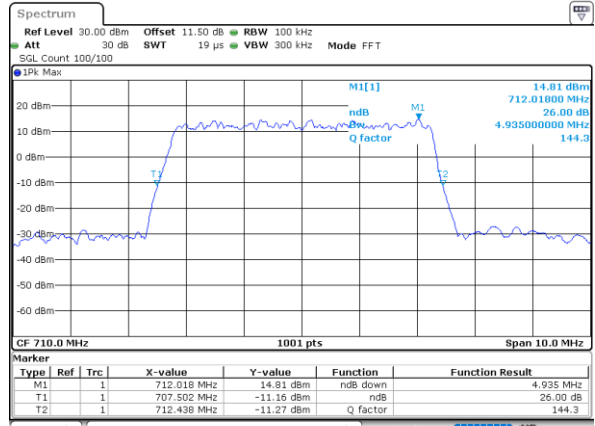
LTE Band 17

Middle Channel / 5MHz / QPSK



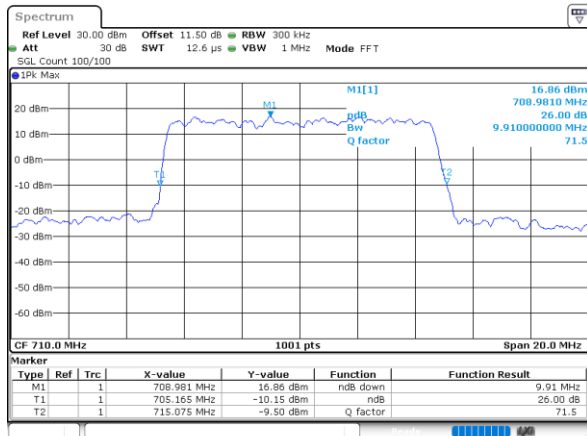
Date: 28.NOV.2024 00:39:14

Middle Channel / 5MHz / 16QAM



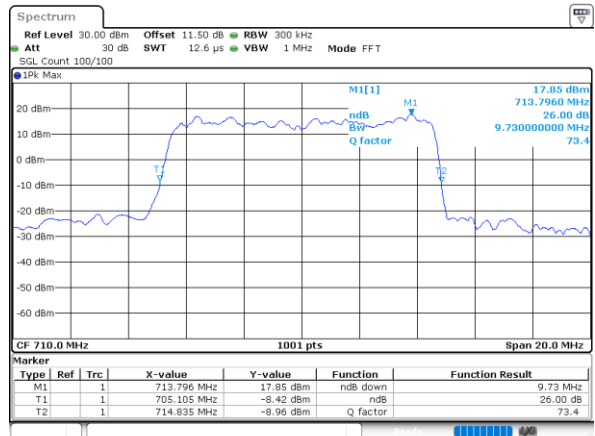
Date: 28.NOV.2024 00:39:50

Middle Channel / 10MHz / QPSK



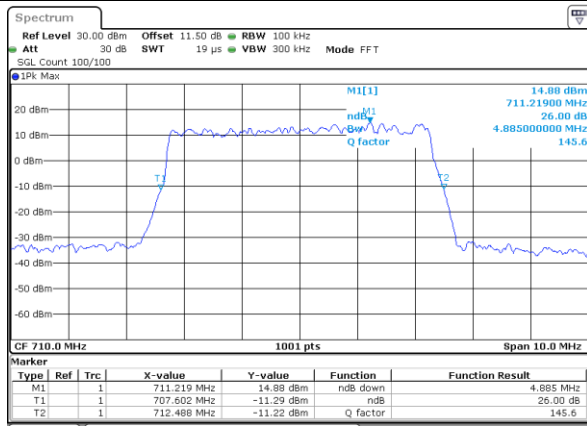
Date: 28.NOV.2024 06:49:00

Middle Channel / 10MHz / 16QAM



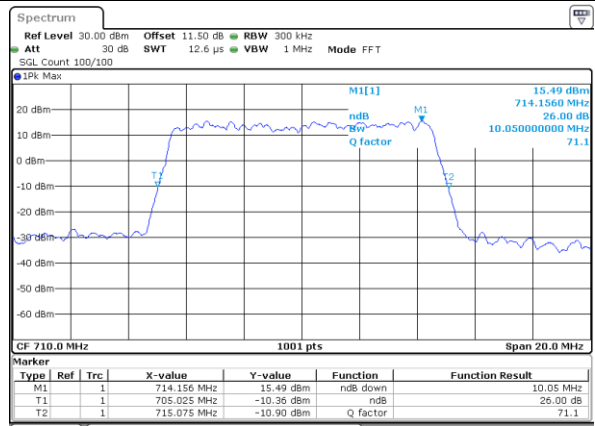
Date: 28.NOV.2024 06:49:34

Middle Channel / 5MHz / 64QAM



Date: 28.NOV.2024 00:40:25

Middle Channel / 10MHz / 64QAM



Date: 28.NOV.2024 08:50:10

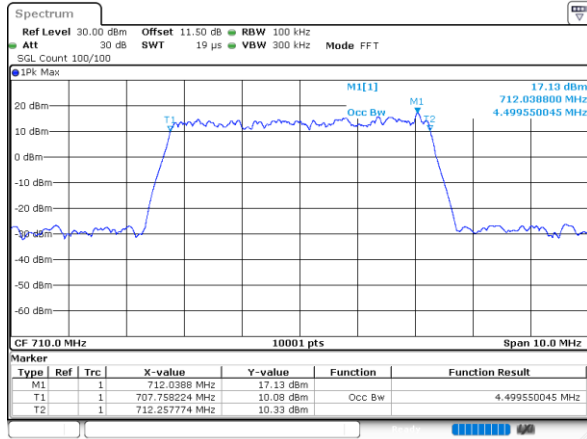
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	9.01	9.04	-	-	-	-
Mode	LTE Band 17 : 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	-	9.08	-	-	-	-	-

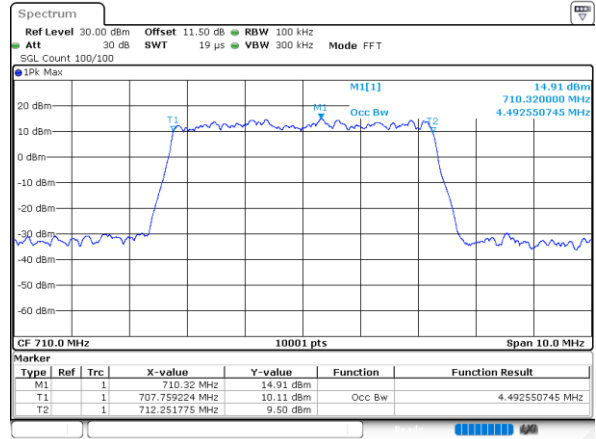


LTE Band 17

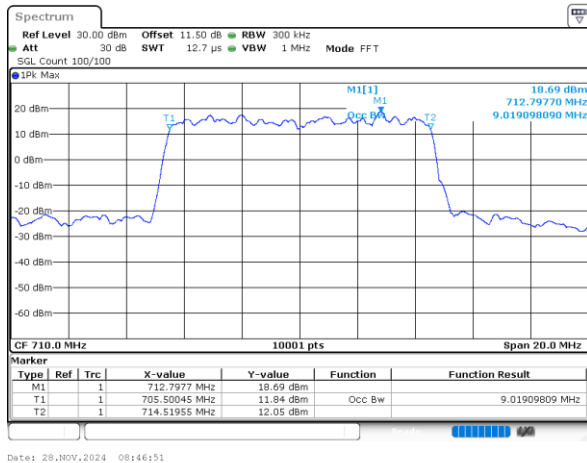
Middle Channel / 5MHz / QPSK



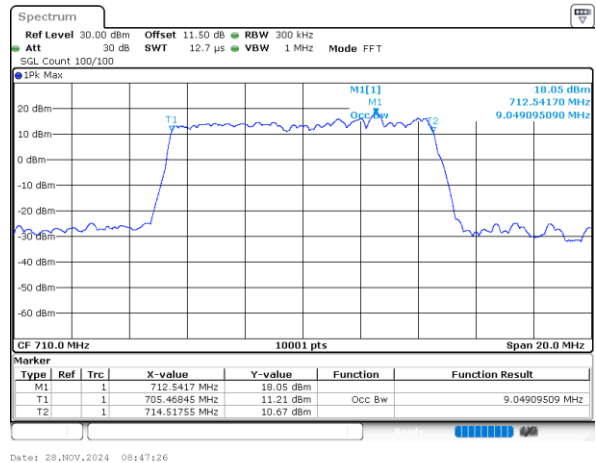
Middle Channel / 5MHz / 16QAM



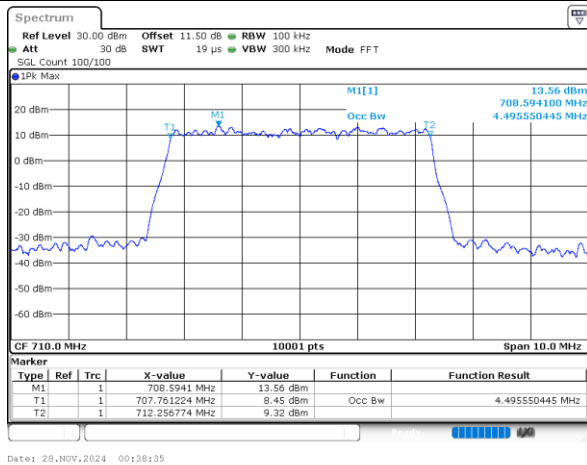
Middle Channel / 10MHz / QPSK



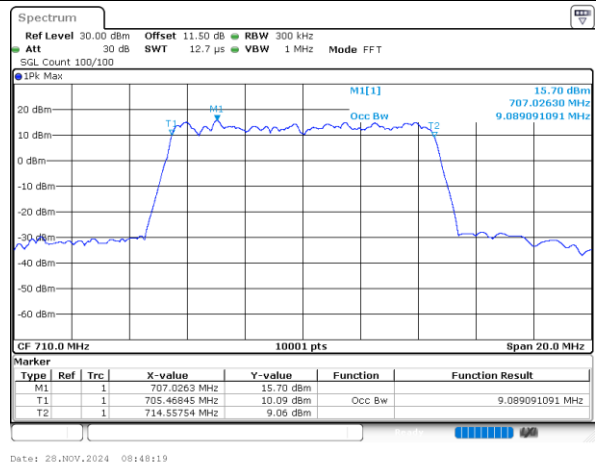
Middle Channel / 10MHz / 16QAM

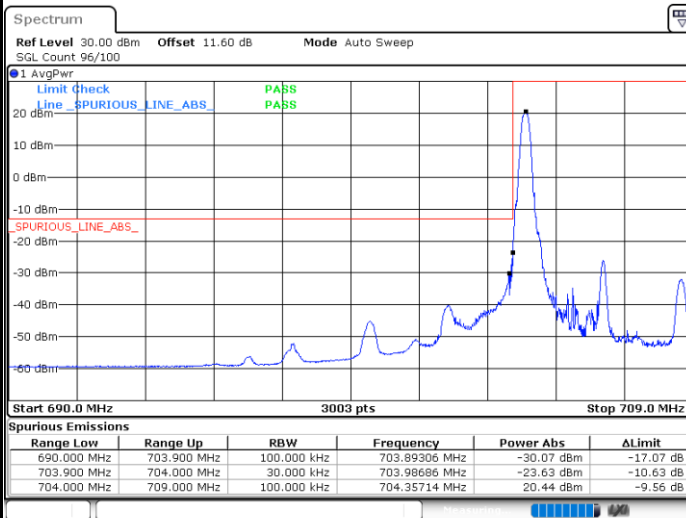
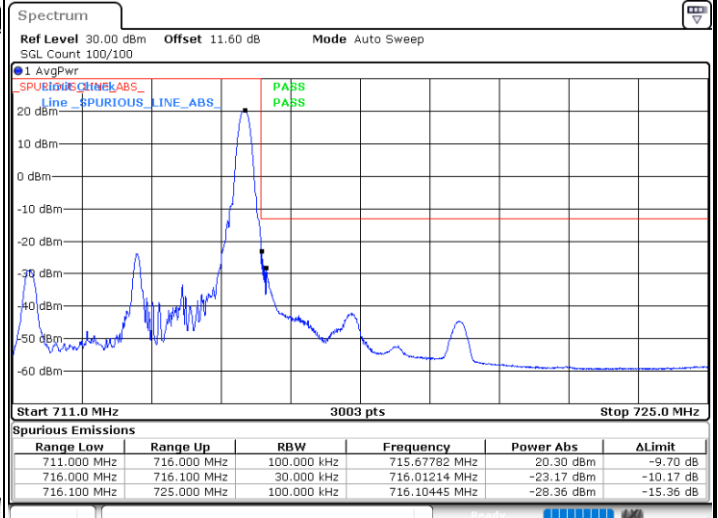
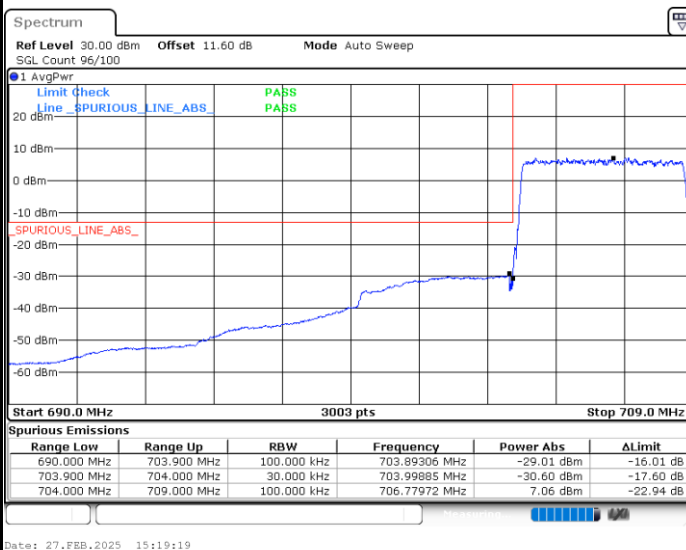
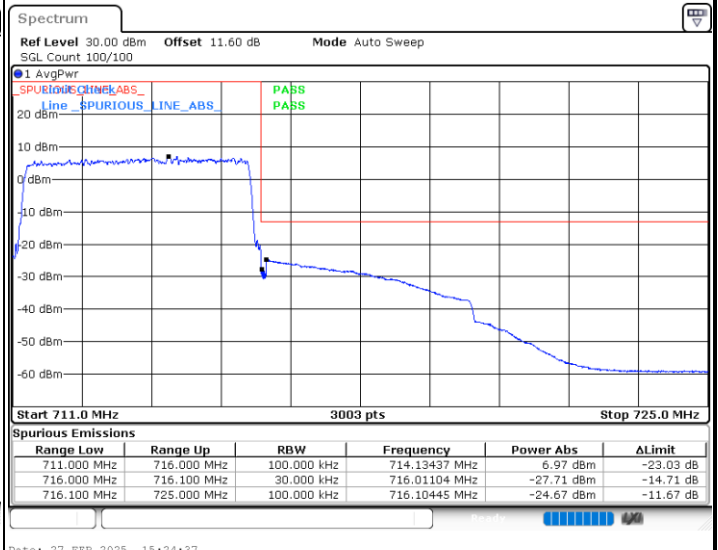


Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

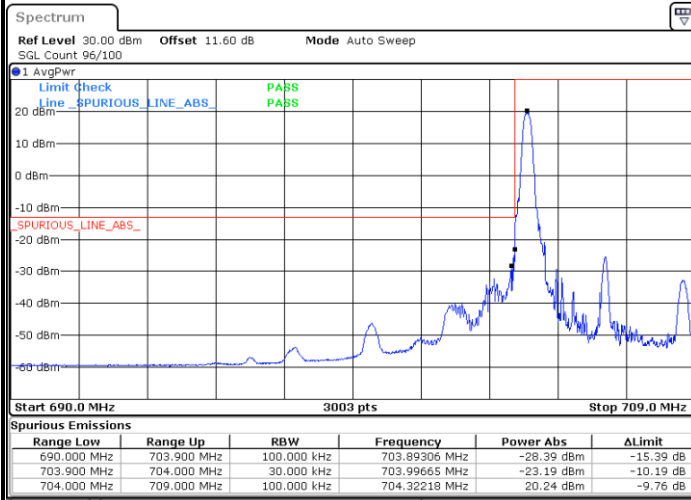


**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 17 / 5MHz / 16QAM

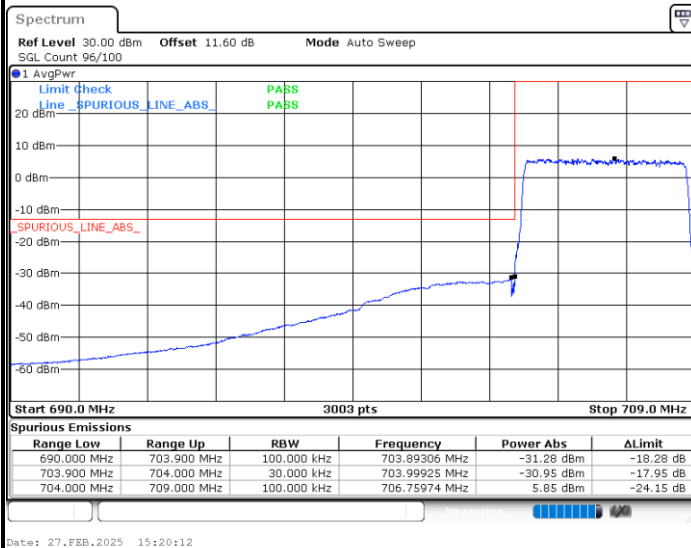
Lowest Band Edge / 1 RB



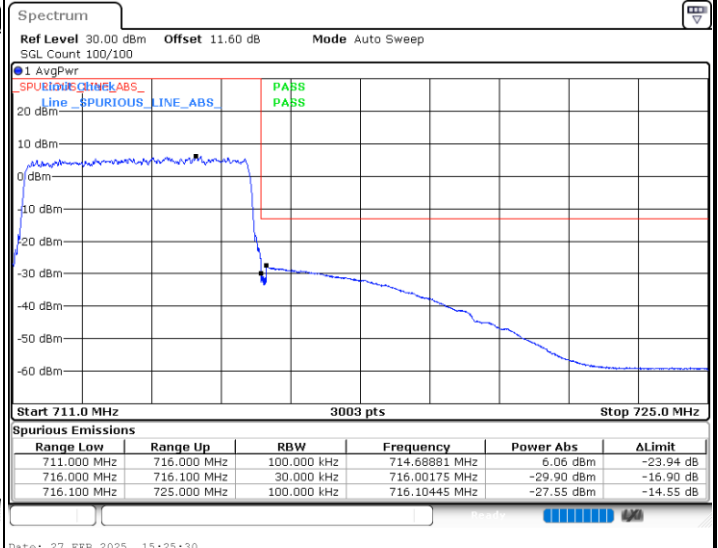
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



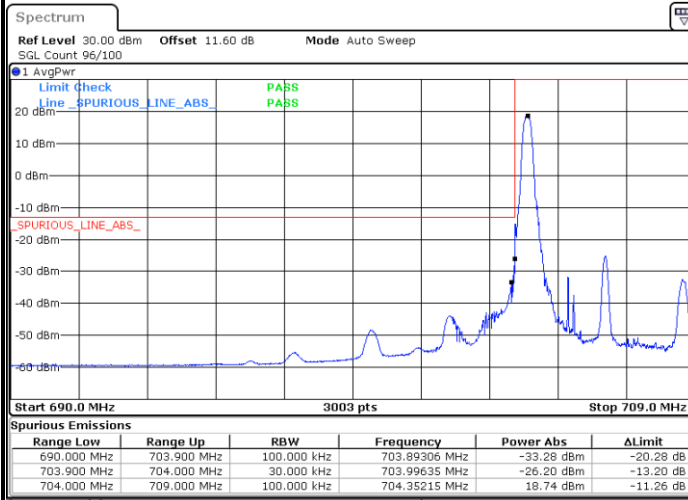
Highest Band Edge / Full RB



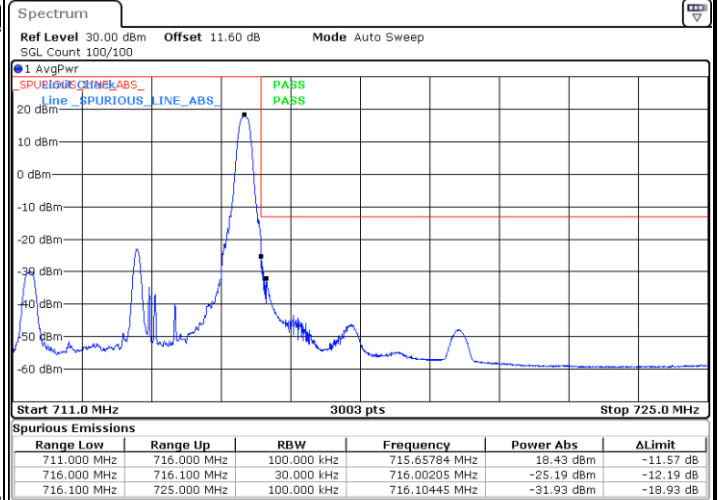


LTE Band 17 / 5MHz / 64QAM

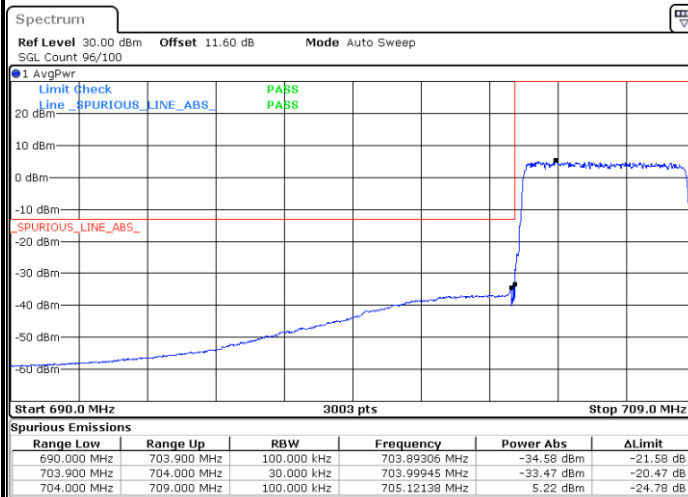
Lowest Band Edge / 1 RB



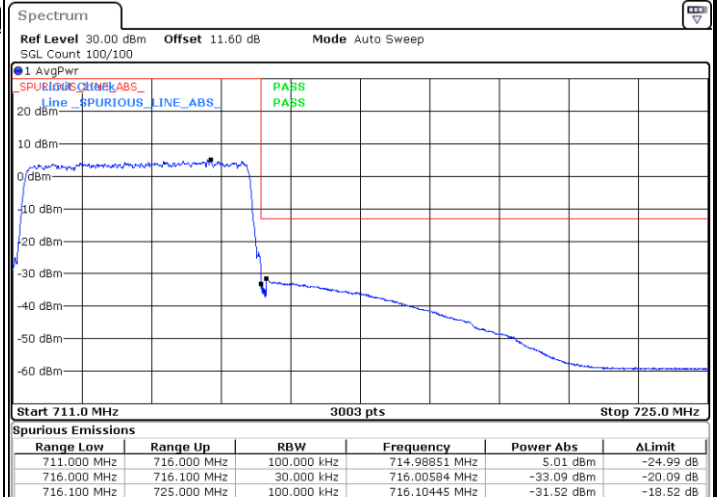
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



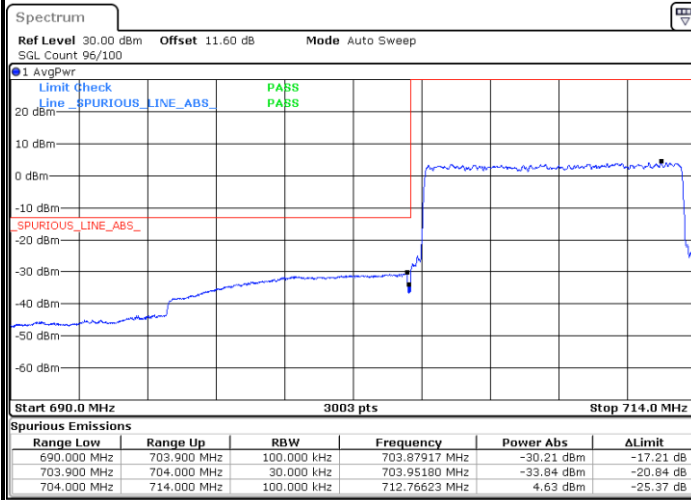
Highest Band Edge / Full RB



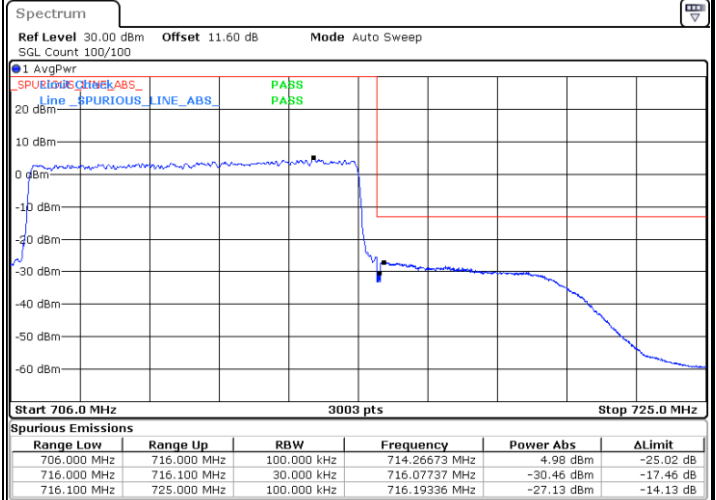


LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / Full RB

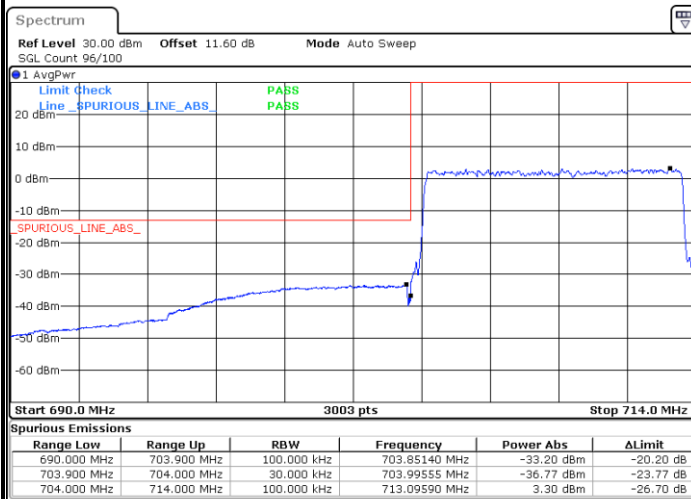


Highest Band Edge / Full RB

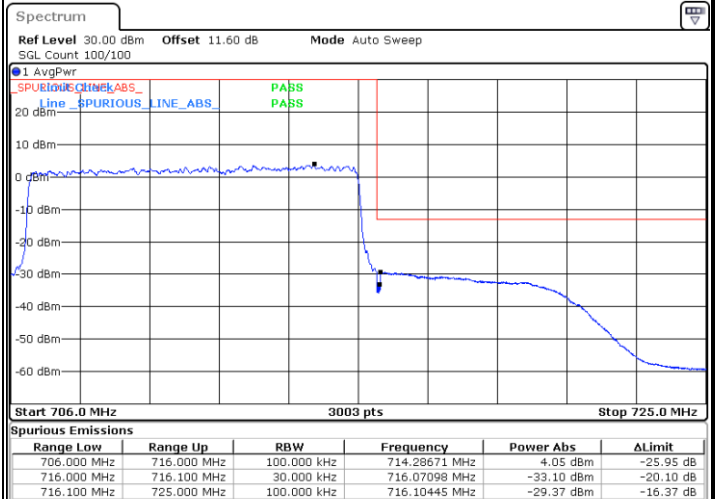


LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

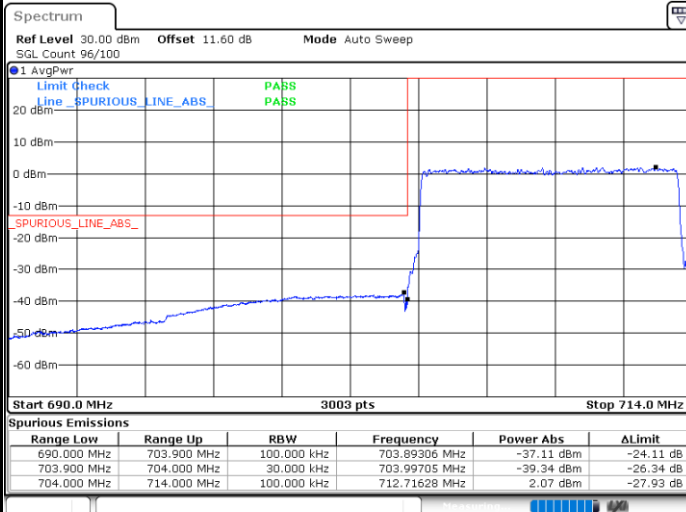




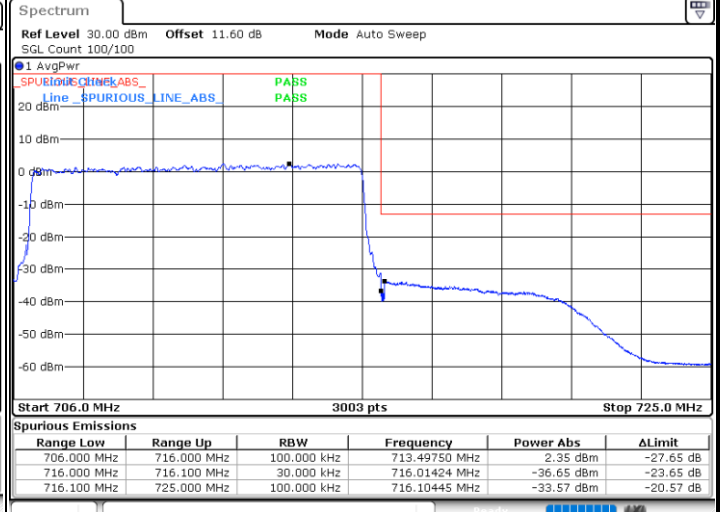
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.FEB.2025 15:29:00



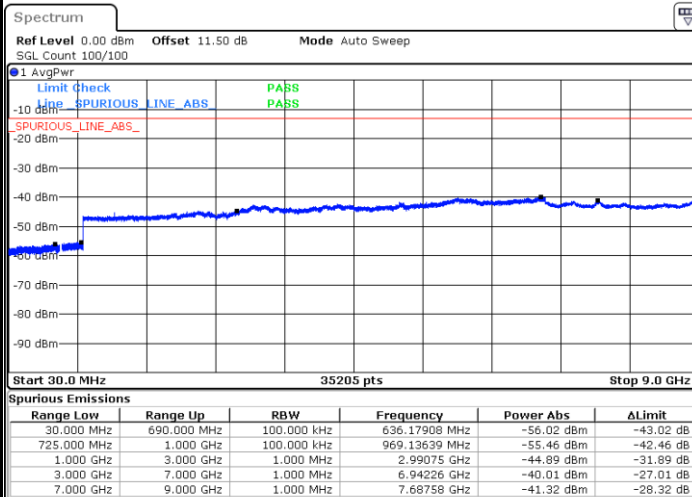
Date: 27.FEB.2025 15:31:37



Conducted Spurious Emission

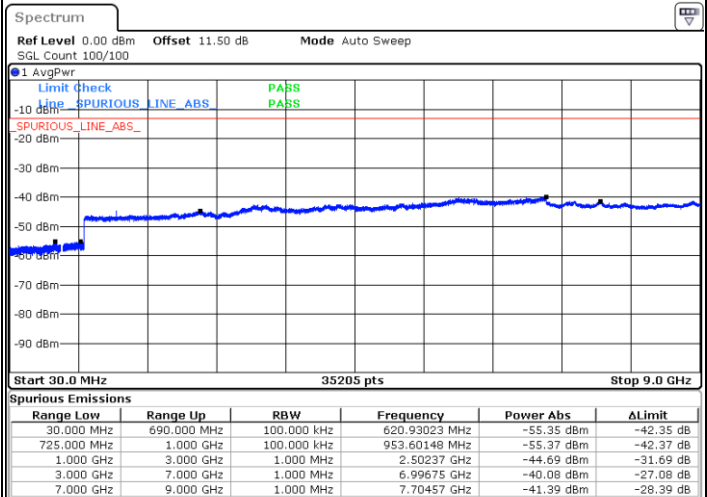
LTE Band 17 / 5MHz

Lowest Channel / QPSK



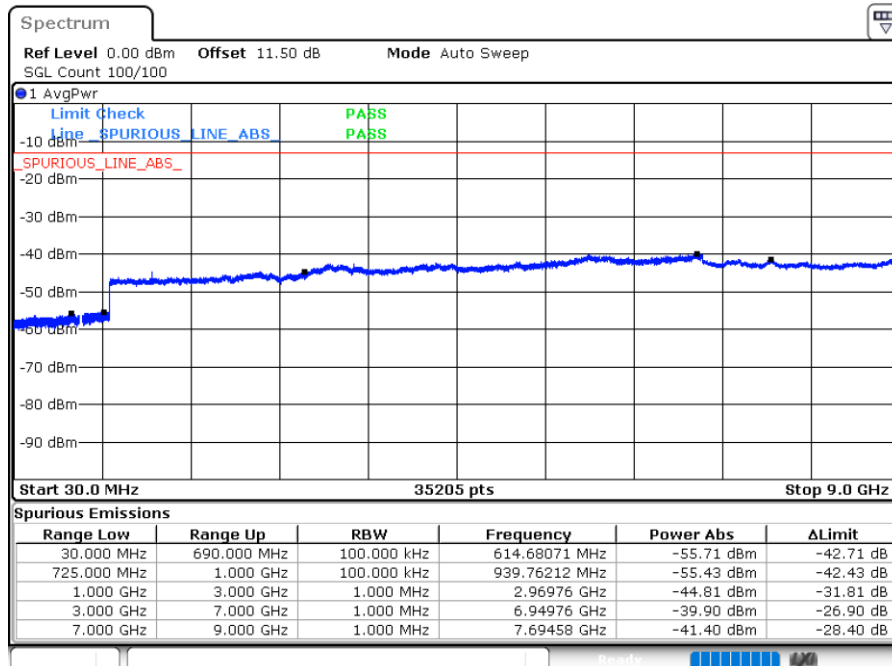
Date: 28.NOV.2024 00:41:49

Middle Channel / QPSK



Date: 28.NOV.2024 00:43:16

Highest Channel / QPSK

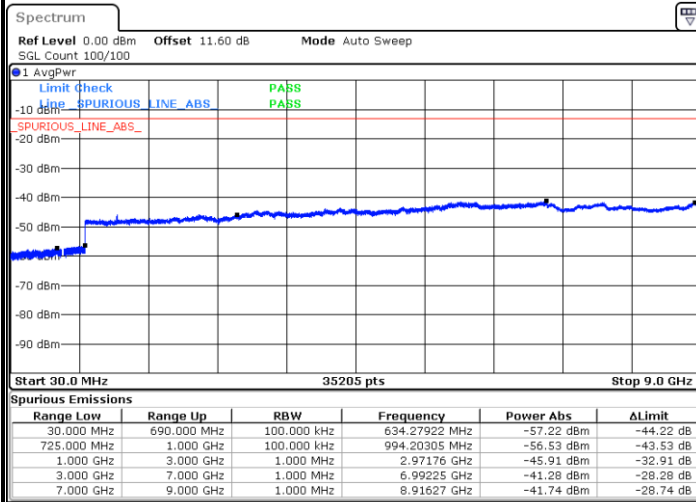


Date: 28.NOV.2024 00:44:48

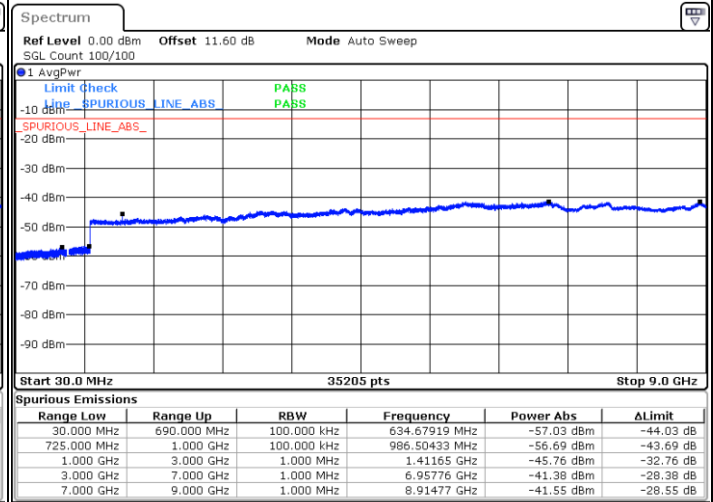


LTE Band 17 / 10MHz

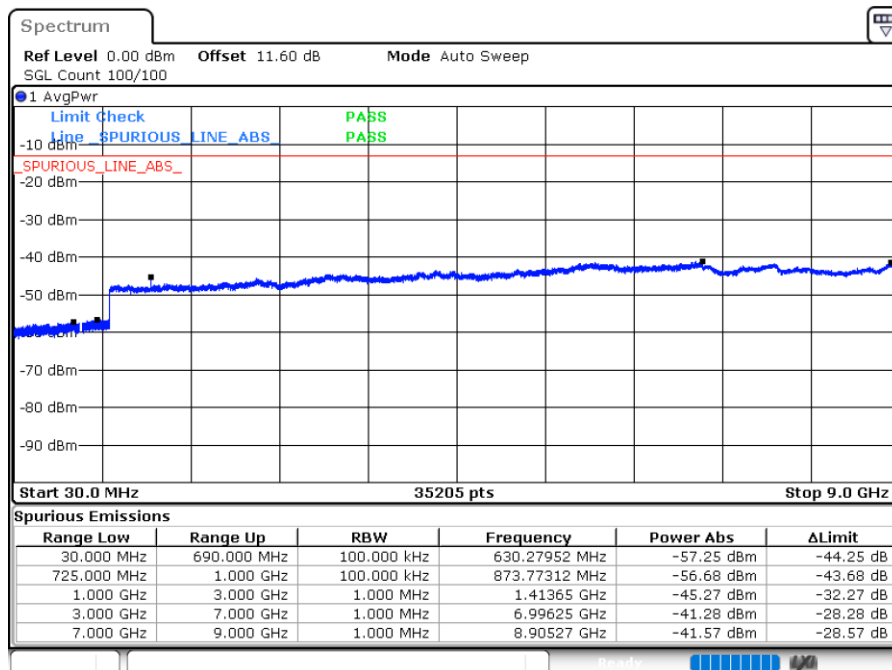
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0154	PASS
30	Normal Voltage	0.0262	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0094	
20	Maximum Voltage	0.0145	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0092	

Note:

1. Normal Voltage = 3.88 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

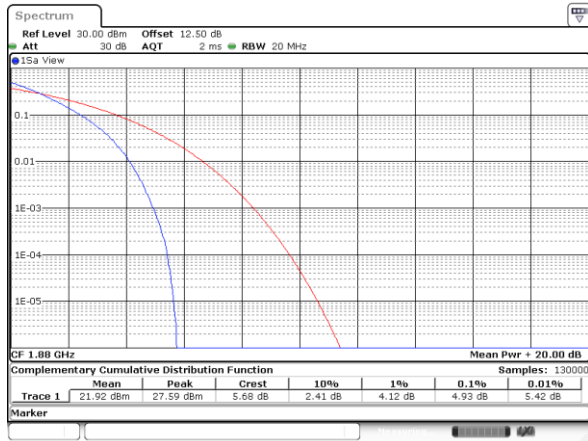
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.74	6.14	-	PASS



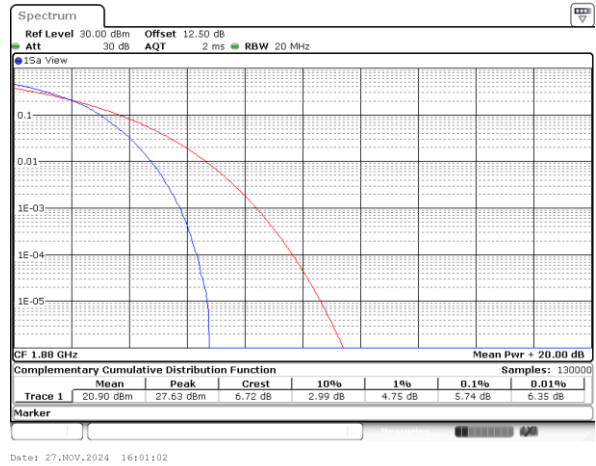
LTE Band 25 / 20MHz / QPSK

Middle Channel / Full RB



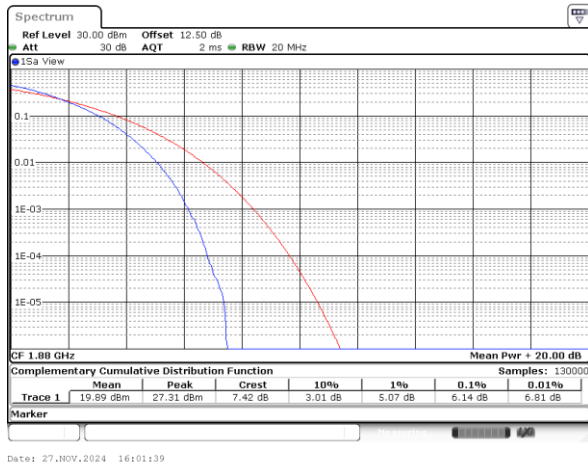
LTE Band 25 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 25 / 20MHz / 64QAM

Middle Channel / Full RB



**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.29	1.25	3.00	3.03	4.92	4.96	9.78	9.84	14.29	14.53	19.22	18.86
Mode	LTE Band 25 : 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	1.26	-	2.98	-	4.86	-	9.75	-	14.53	-	18.82	-