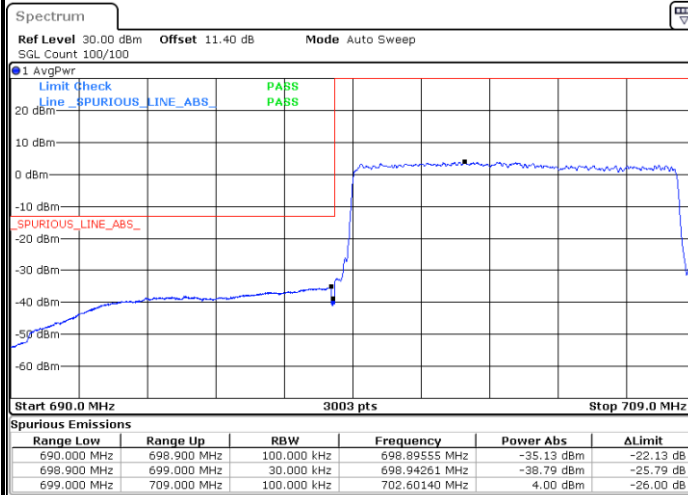


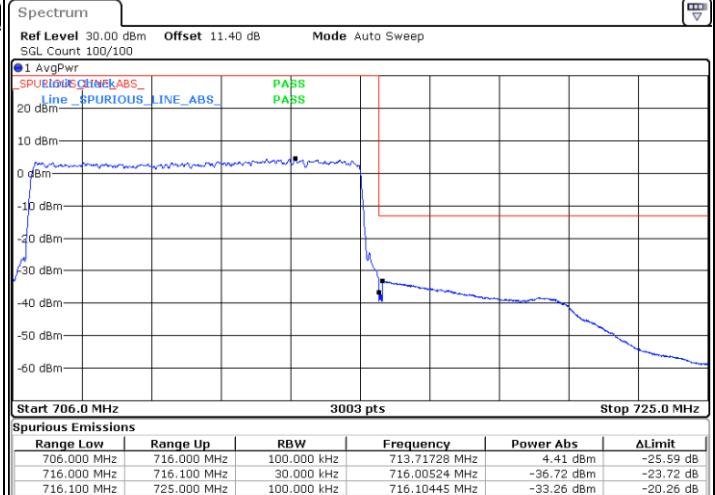


LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB

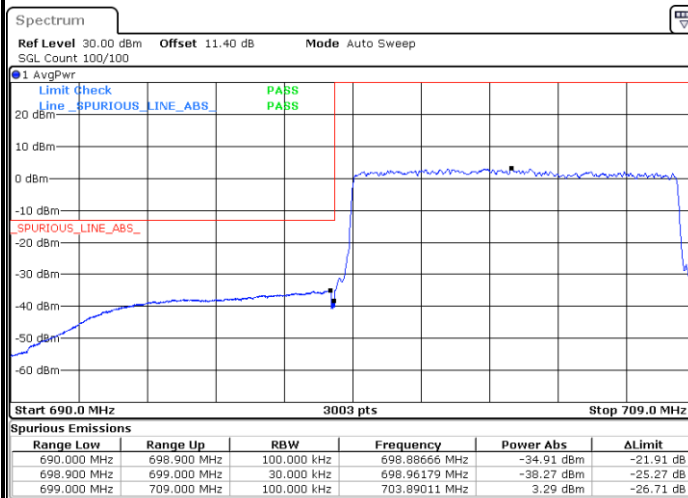


Highest Band Edge / Full RB

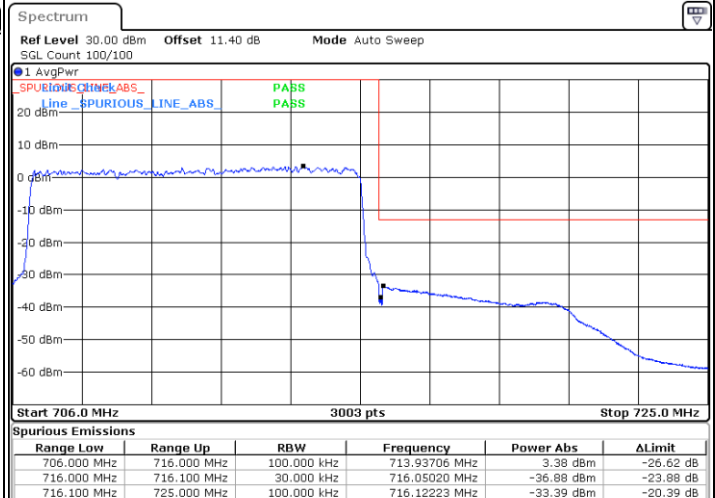


LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

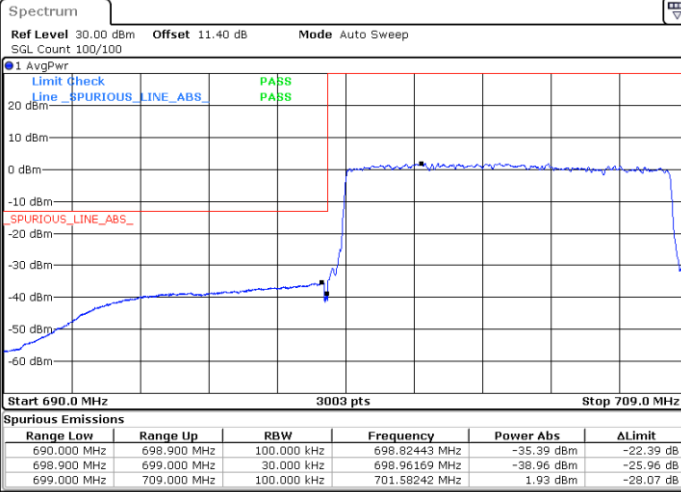




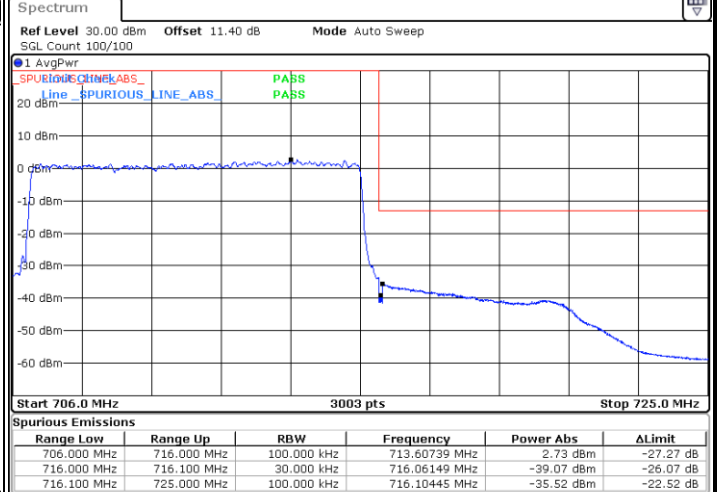
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAR.2024 18:26:34



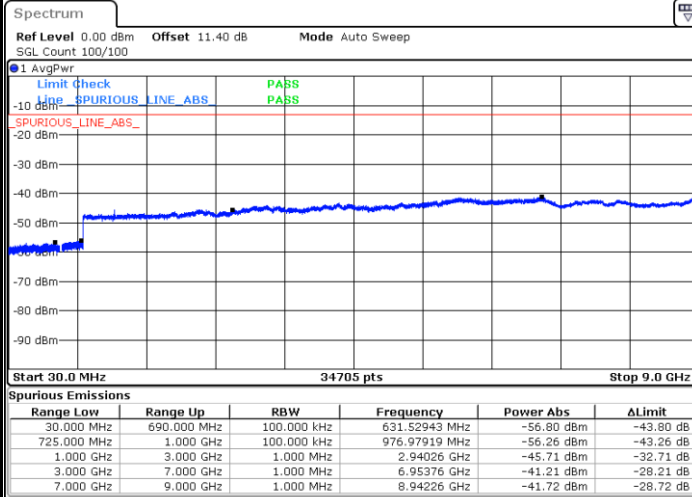
Date: 27.MAR.2024 18:36:35



Conducted Spurious Emission

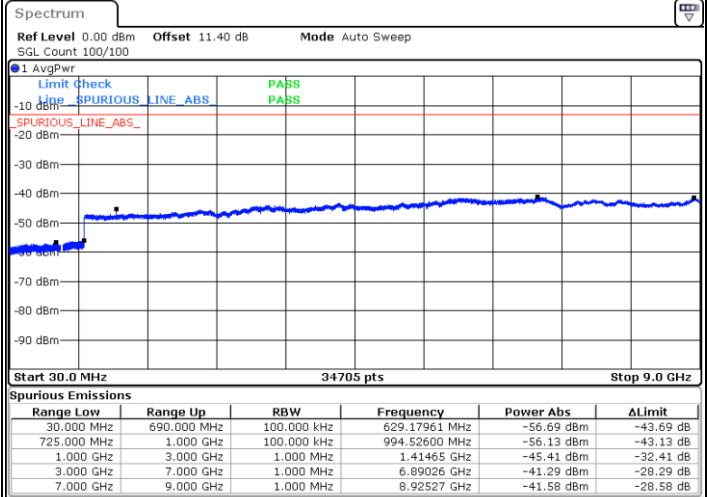
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



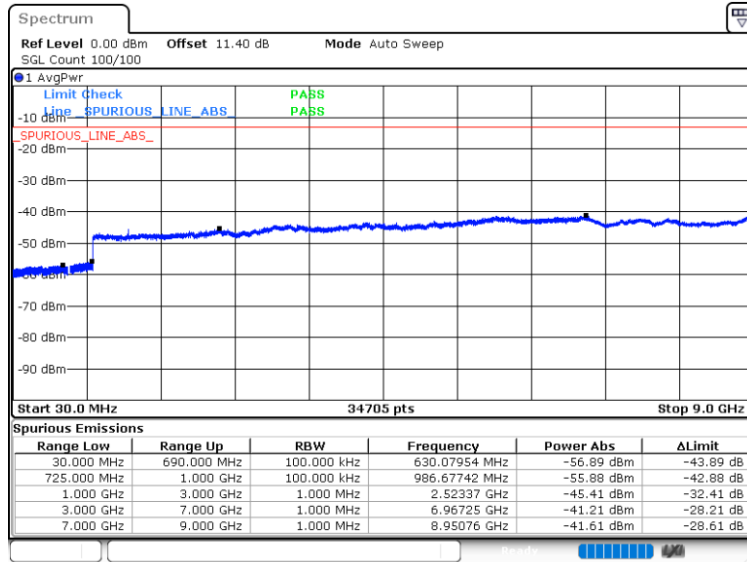
Date: 27.MAR.2024 17:12:41

Middle Channel / QPSK



Date: 27.MAR.2024 17:14:17

Highest Channel / QPSK

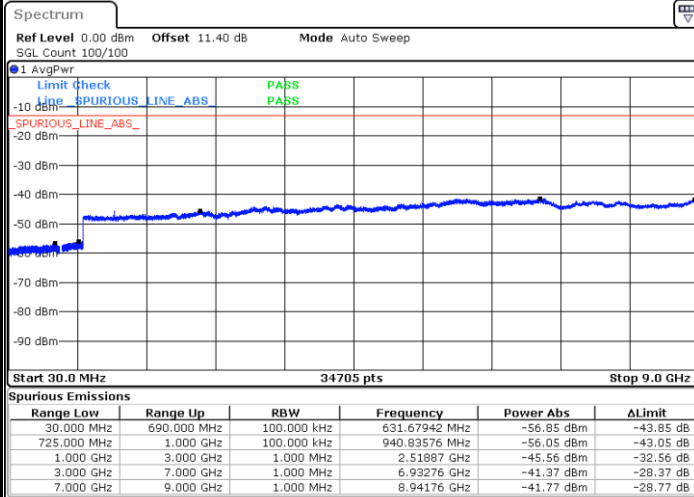


Date: 27.MAR.2024 17:16:03



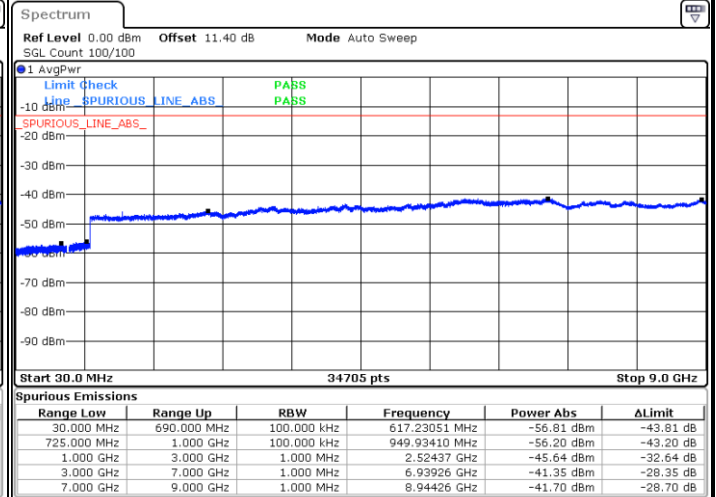
LTE Band 12 / 3MHz

Lowest Channel / QPSK



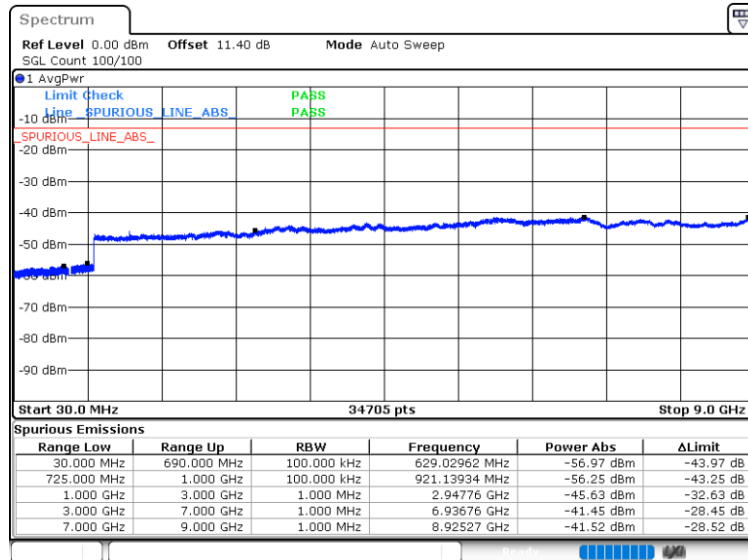
Date: 27.MAR.2024 17:42:56

Middle Channel / QPSK



Date: 27.MAR.2024 17:44:39

Highest Channel / QPSK

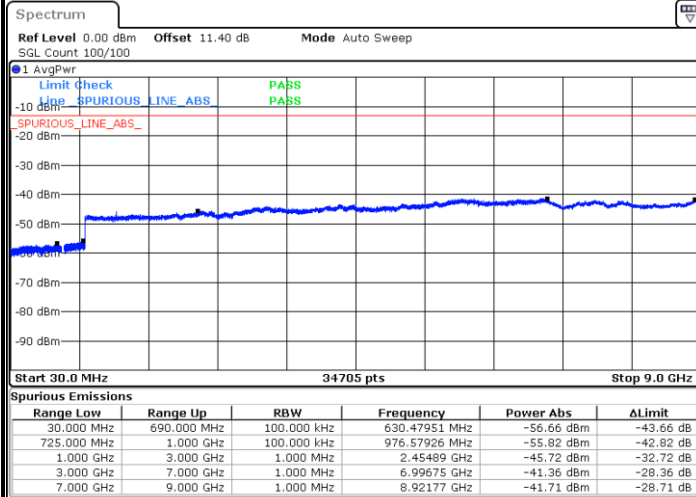


Date: 27.MAR.2024 17:46:09



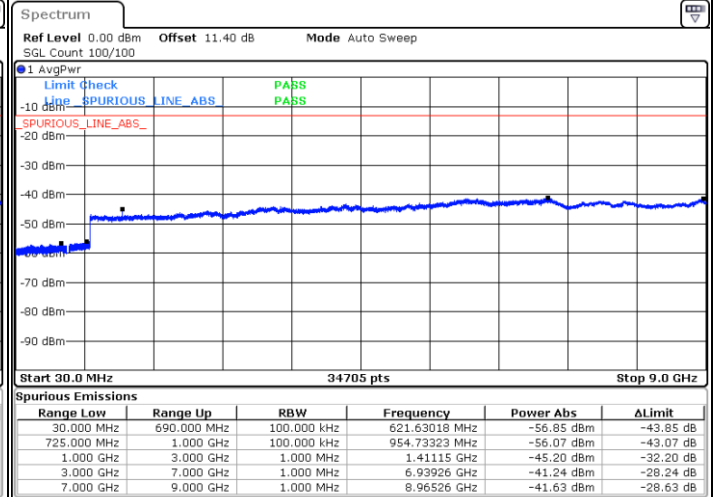
LTE Band 12 / 5MHz

Lowest Channel / QPSK



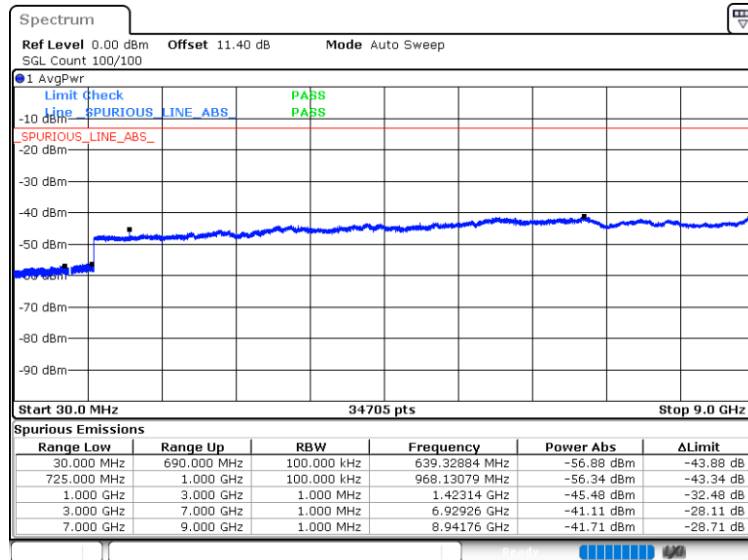
Date: 27.MAR.2024 18:13:05

Middle Channel / QPSK



Date: 27.MAR.2024 18:14:53

Highest Channel / QPSK

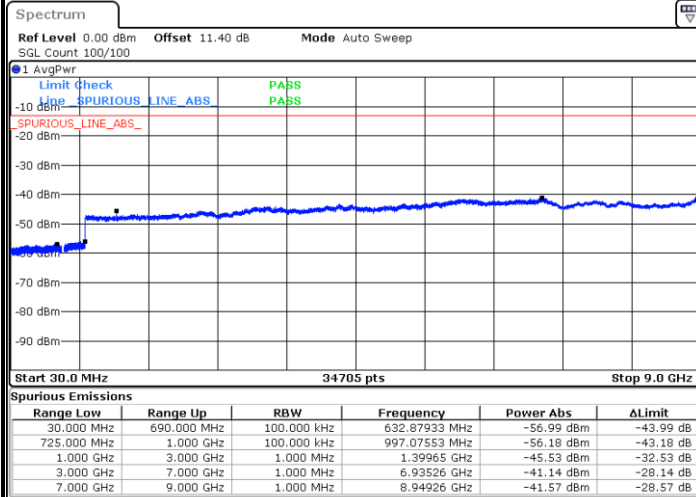


Date: 27.MAR.2024 18:16:25



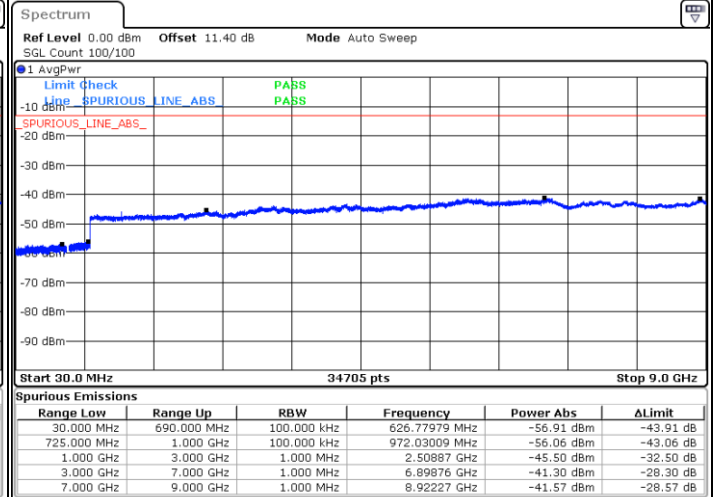
LTE Band 12 / 10MHz

Lowest Channel / QPSK



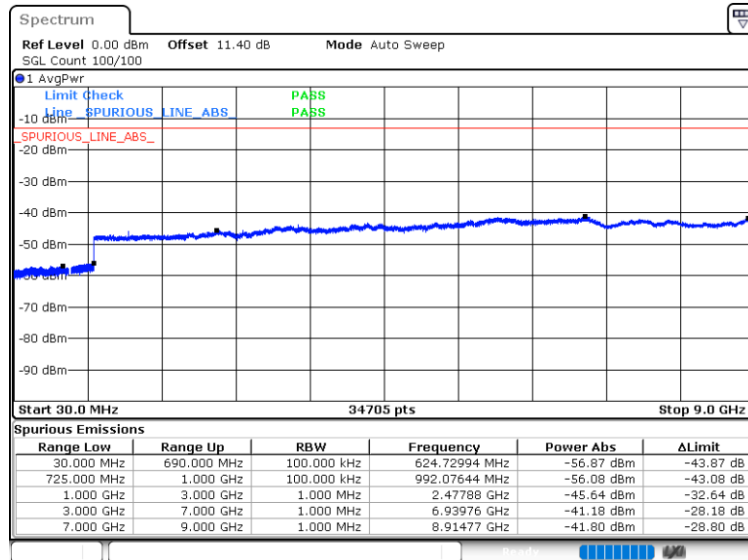
Date: 27.MAR.2024 18:43:34

Middle Channel / QPSK



Date: 27.MAR.2024 18:45:27

Highest Channel / QPSK



Date: 27.MAR.2024 18:47:17

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	0.0035	PASS
40	Normal Voltage	0.0153	
30	Normal Voltage	0.0269	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0143	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0168	
-20	Normal Voltage	0.0213	
-30	Normal Voltage	0.0263	
20	Maximum Voltage	0.0222	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0090	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

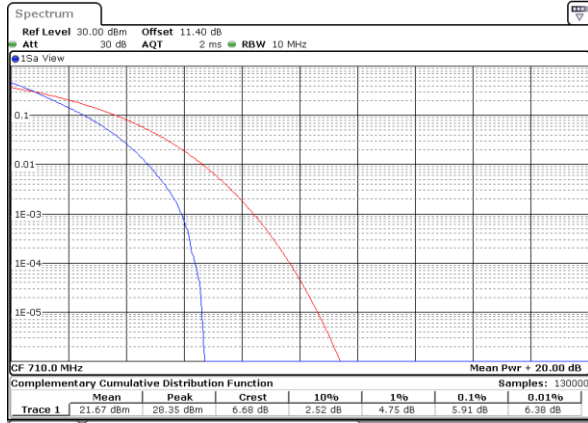
**<Ant. 0>****LTE Band 17****Peak-to-Average Ratio**

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	5.91	6.46	6.64	-	PASS



LTE Band 17 / 10MHz / QPSK

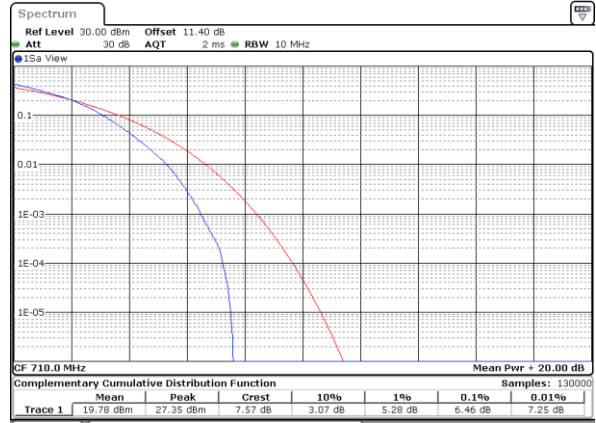
Middle Channel / Full RB



Date: 27.MAR.2024 19:41:59

LTE Band 17 / 10MHz / 16QAM

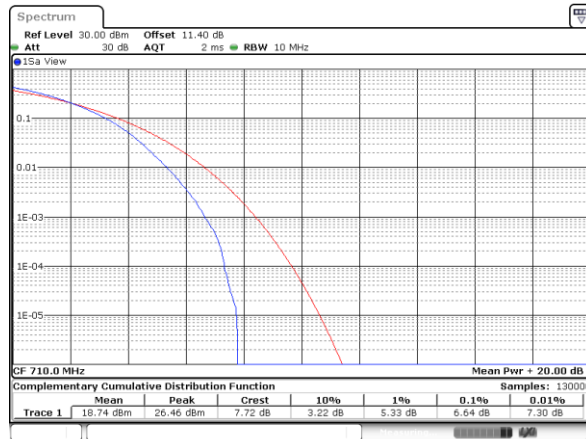
Middle Channel / Full RB



Date: 28.MAR.2024 11:19:20

LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 28.MAR.2024 11:21:52

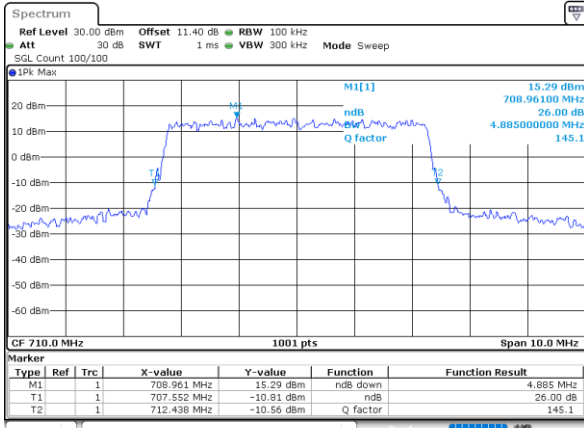
**26dB Bandwidth**

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	-	-	-	-	4.88	4.91	9.76	9.71	-	-	-	-
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	-	-	-	-	4.83	-	9.83	-	-	-	-	-



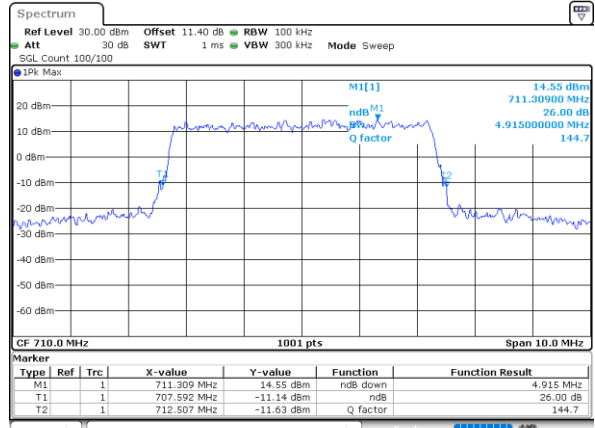
LTE Band 17

Middle Channel / 5MHz / QPSK



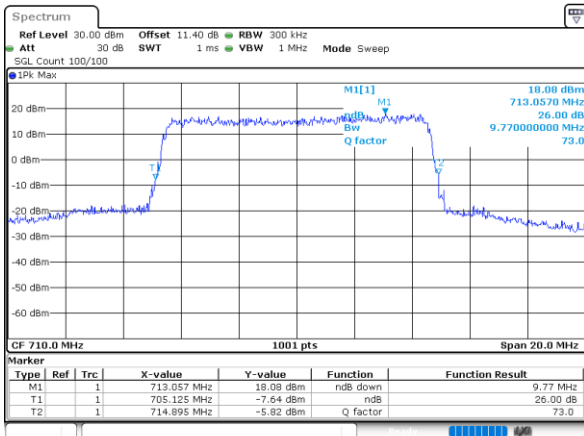
Date: 27.MAR.2024 19:14:05

Middle Channel / 5MHz / 16QAM



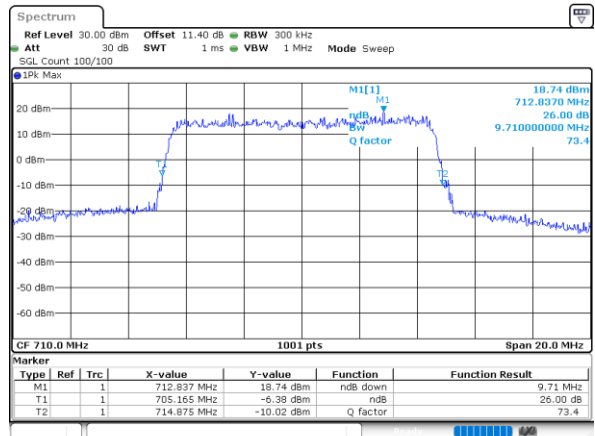
Date: 27.MAR.2024 19:14:56

Middle Channel / 10MHz / QPSK



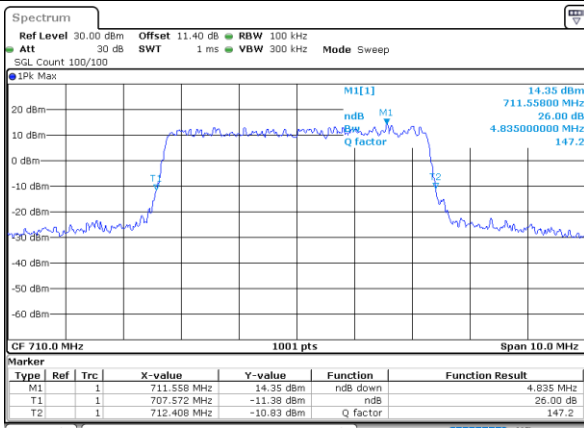
Date: 27.MAR.2024 19:14:17

Middle Channel / 10MHz / 16QAM



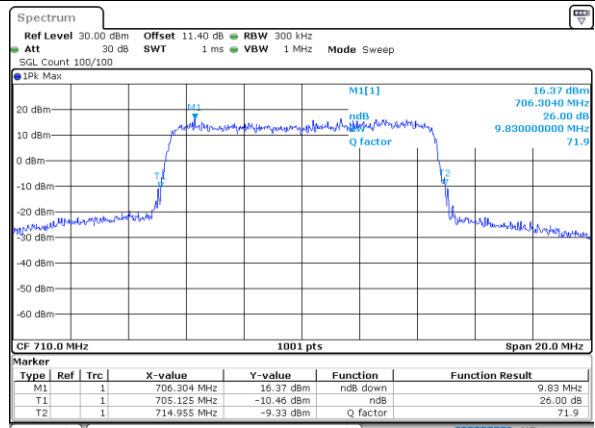
Date: 27.MAR.2024 19:15:04

Middle Channel / 5MHz / 64QAM



Date: 27.MAR.2024 19:15:50

Middle Channel / 10MHz / 64QAM



Date: 27.MAR.2024 19:15:55

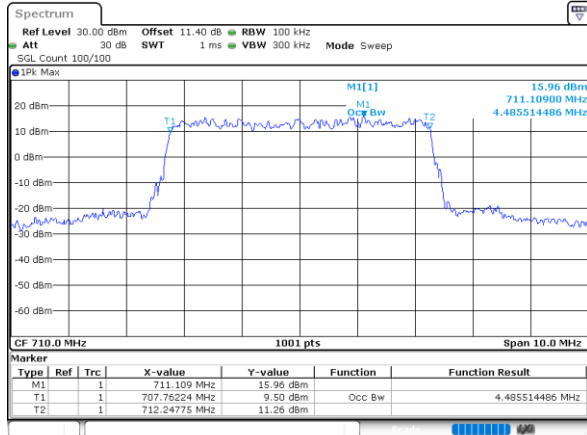
**Occupied Bandwidth**

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	-	-	-	-	4.48	4.51	9.03	9.05	-	-	-	-
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	-	9.03	-	-	-	-	-

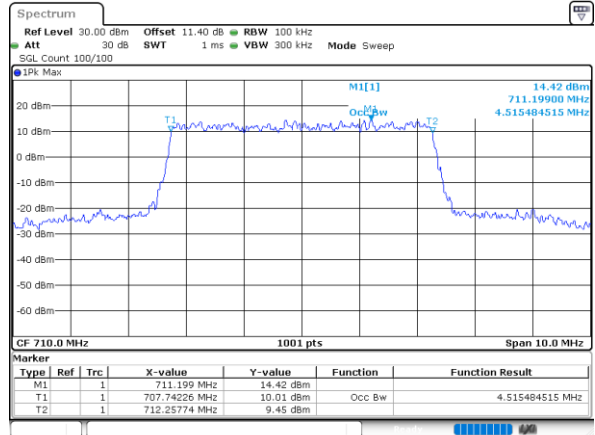


LTE Band 17

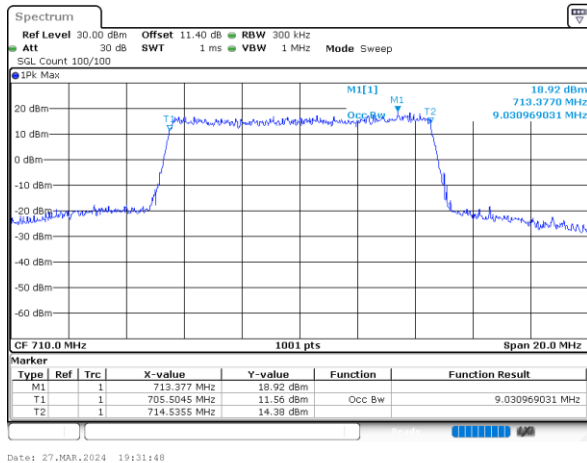
Middle Channel / 5MHz / QPSK



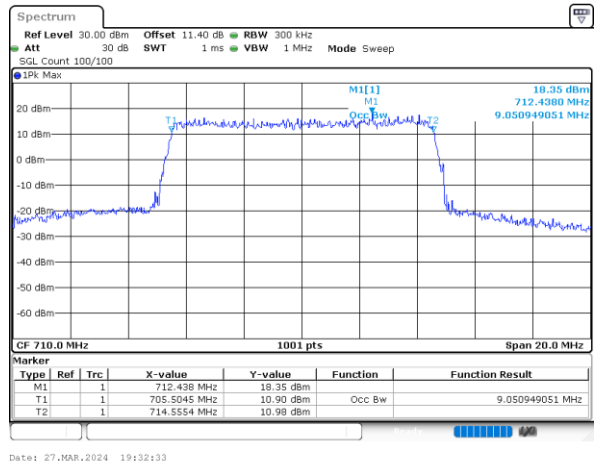
Middle Channel / 5MHz / 16QAM



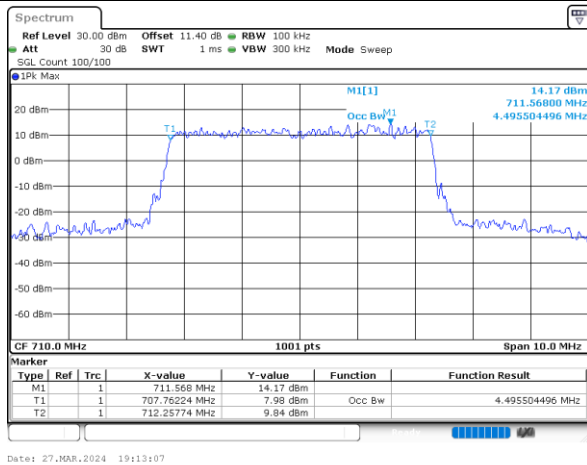
Middle Channel / 10MHz / QPSK



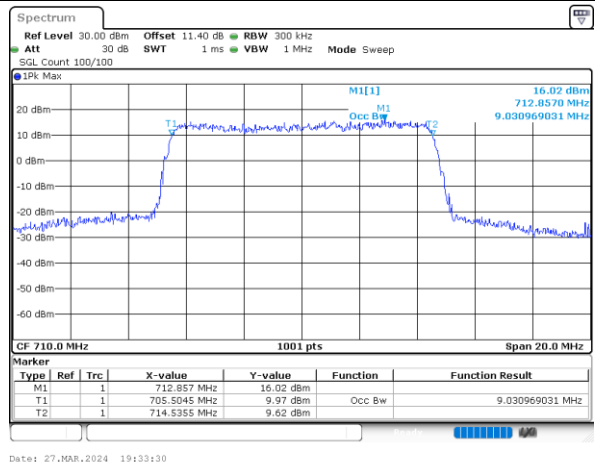
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

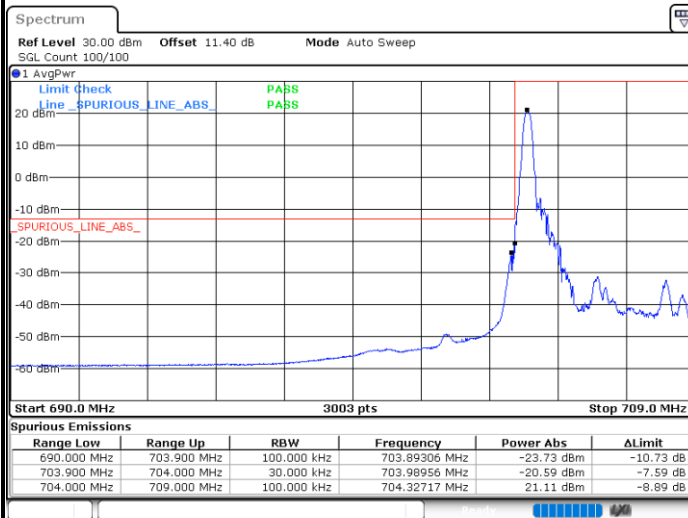




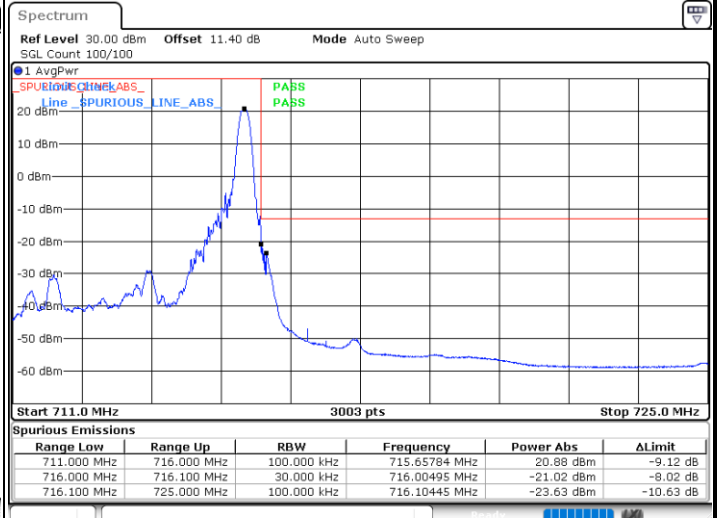
Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

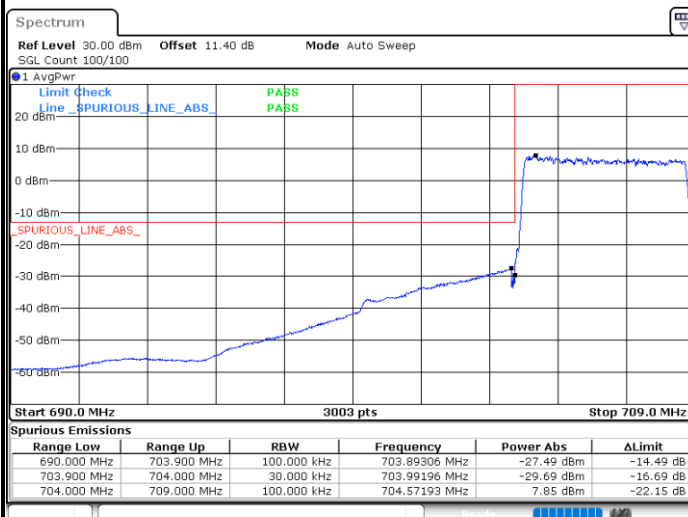
Lowest Band Edge / 1 RB



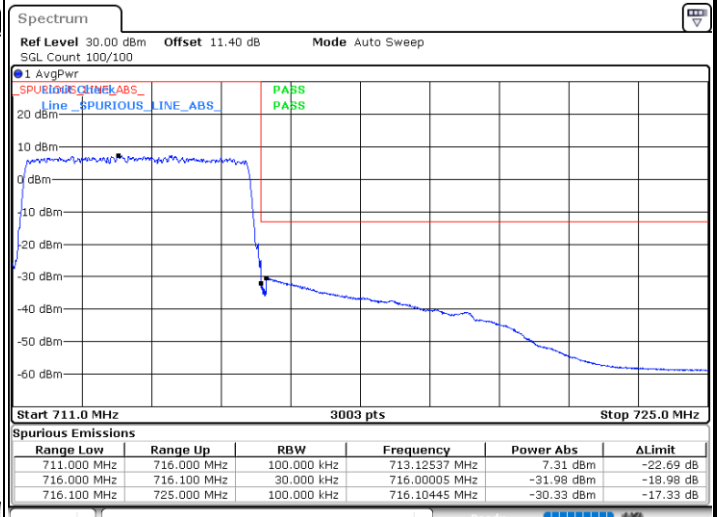
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



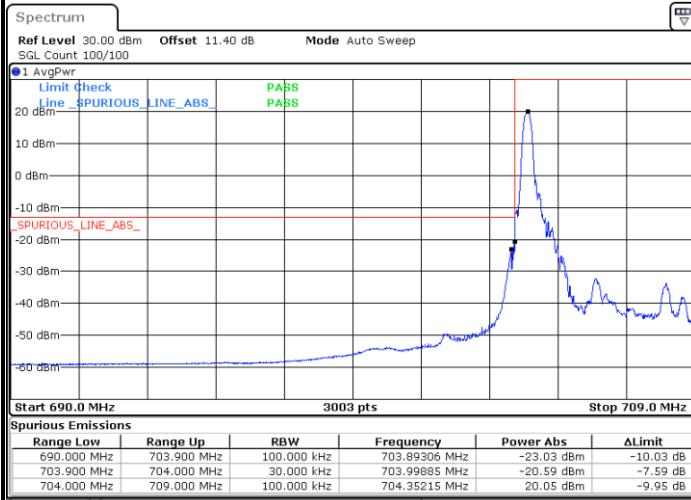
Highest Band Edge / Full RB





LTE Band 17 / 5MHz / 16QAM

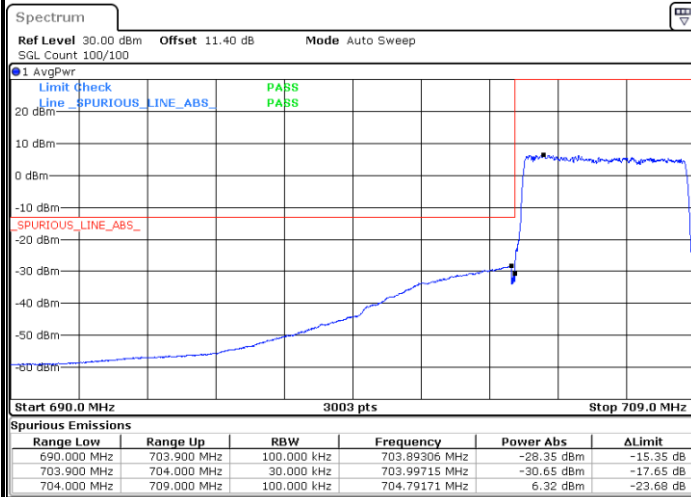
Lowest Band Edge / 1 RB



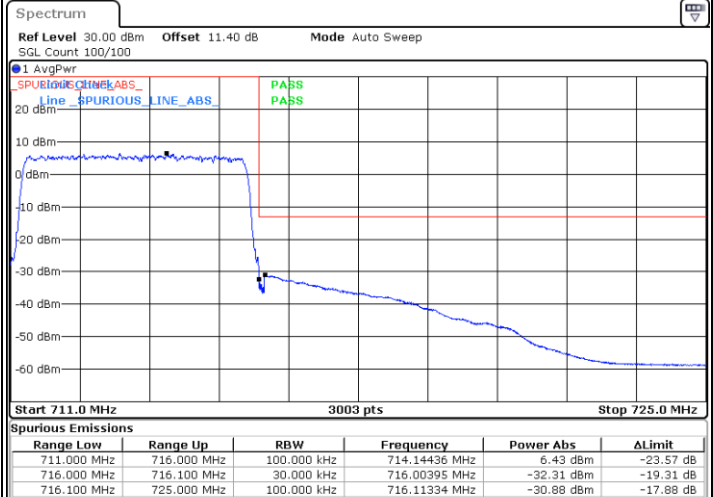
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



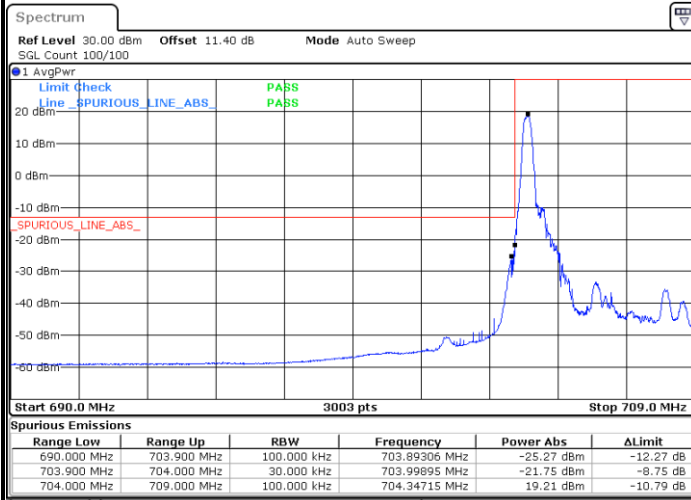
Highest Band Edge / Full RB





LTE Band 17 / 5MHz / 64QAM

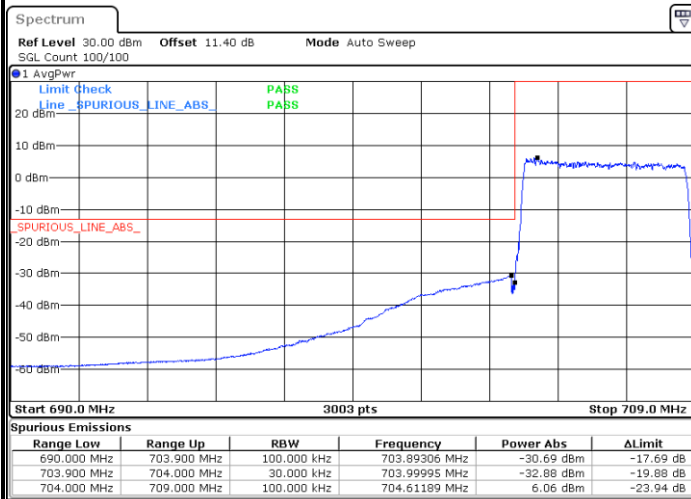
Lowest Band Edge / 1 RB



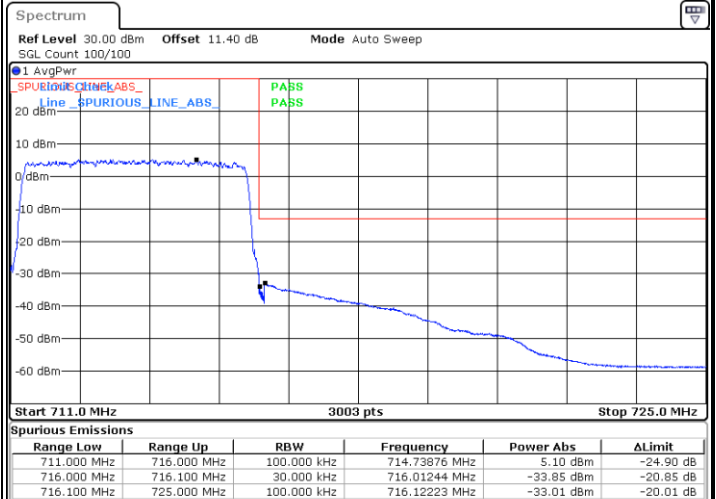
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



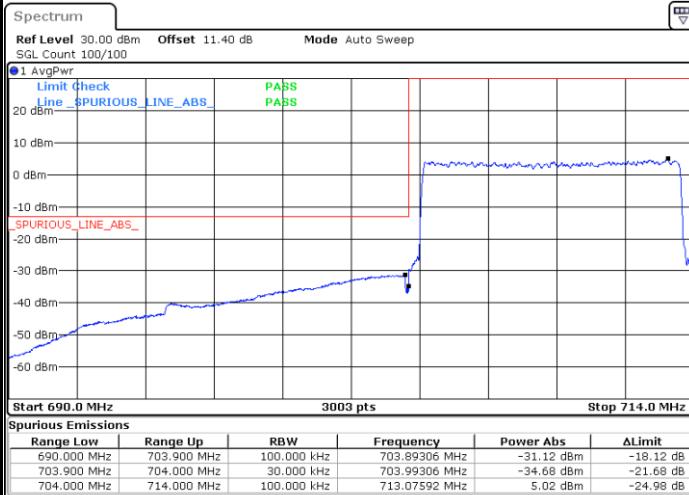
Highest Band Edge / Full RB



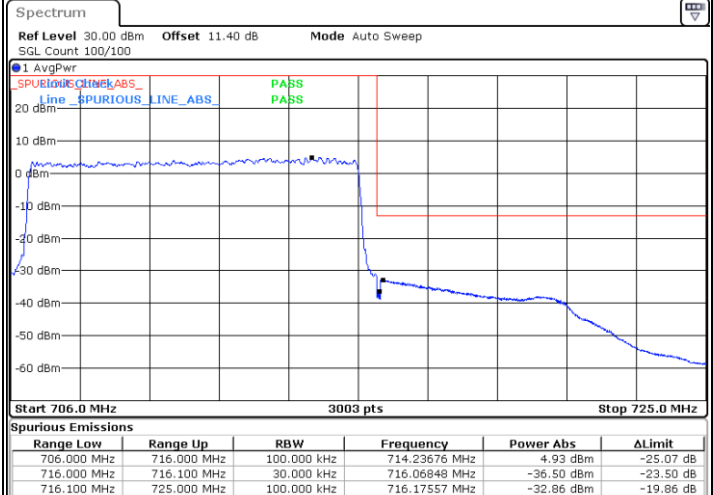


LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / Full RB

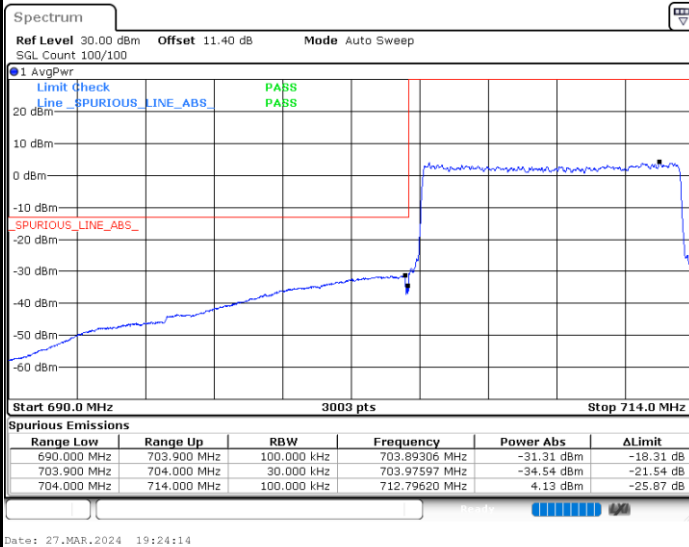


Highest Band Edge / Full RB

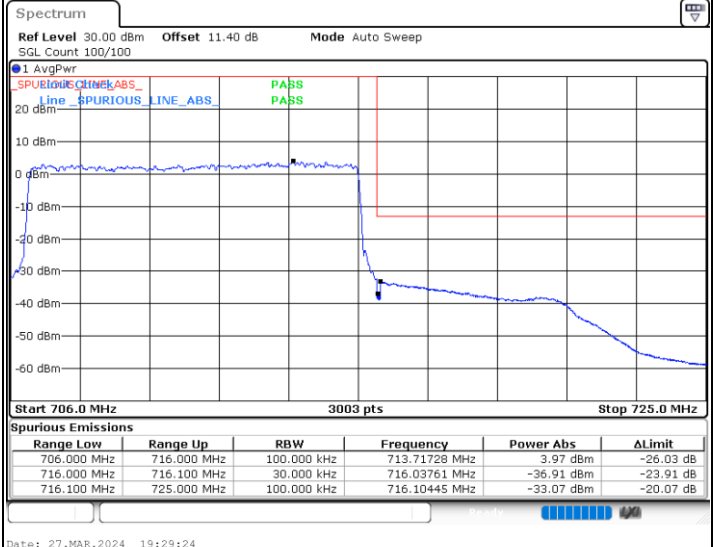


LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

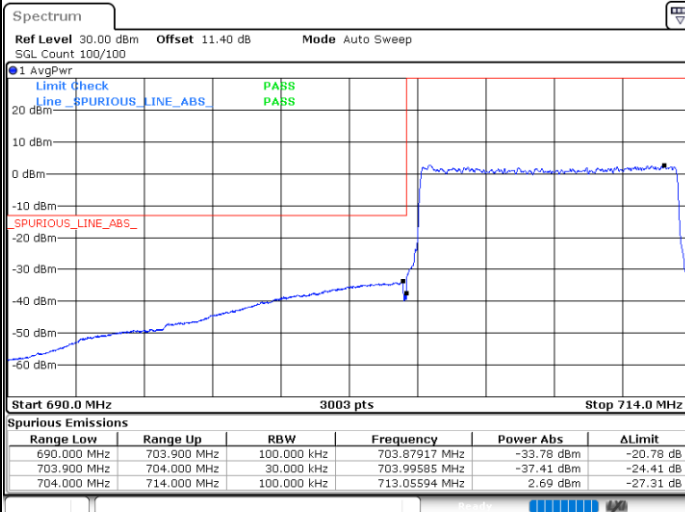




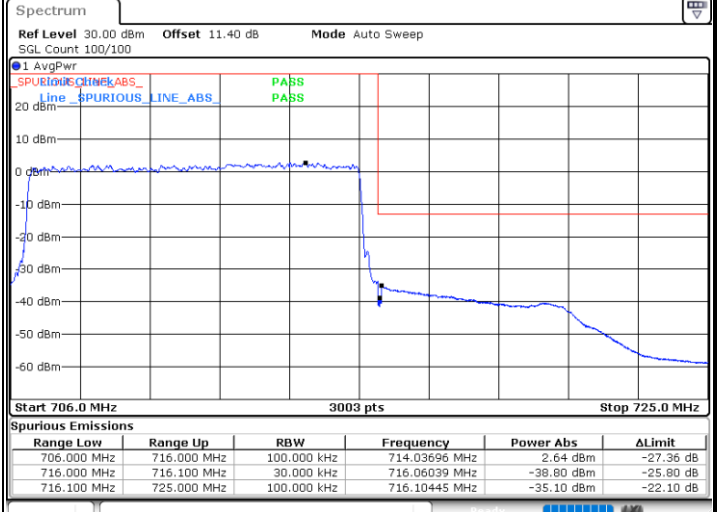
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 27.MAR.2024 19:25:57



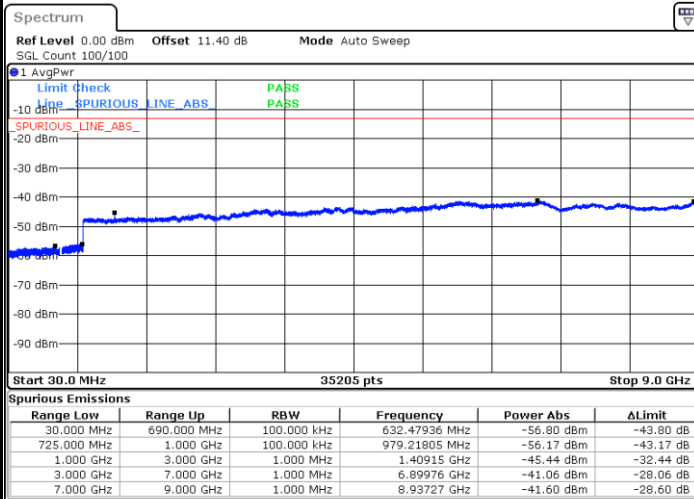
Date: 27.MAR.2024 19:30:58



Conducted Spurious Emission

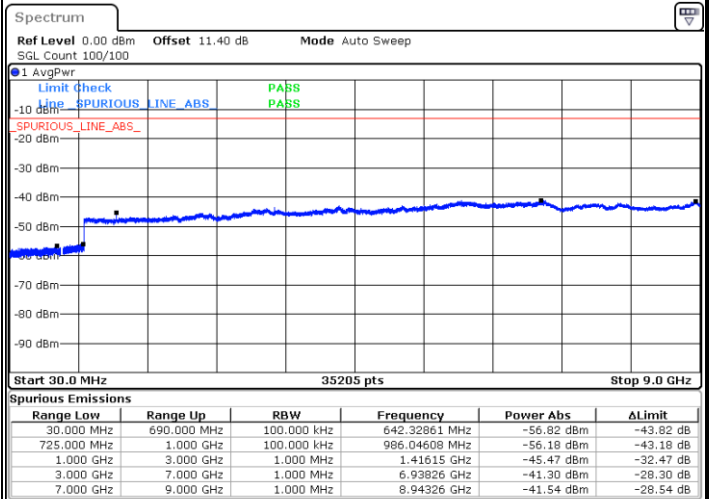
LTE Band 17 / 5MHz

Lowest Channel / QPSK



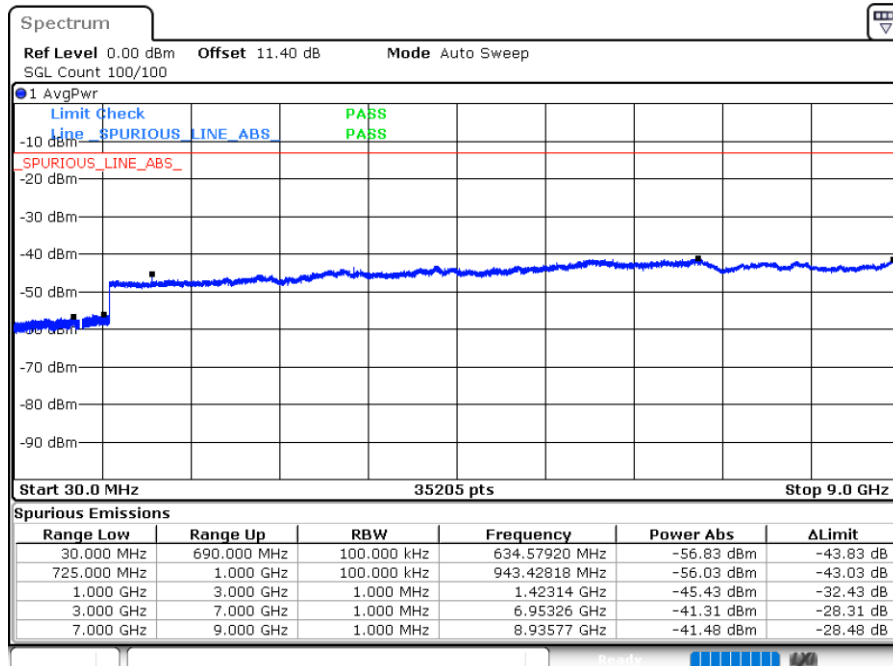
Date: 27.MAR.2024 19:17:26

Middle Channel / QPSK



Date: 27.MAR.2024 19:19:14

Highest Channel / QPSK

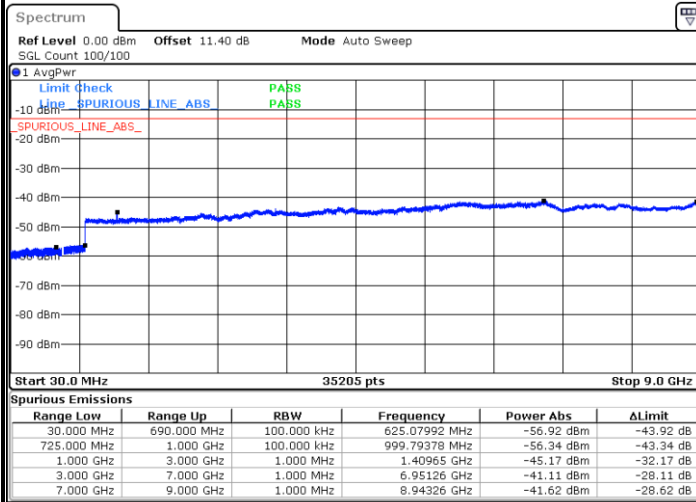


Date: 27.MAR.2024 19:20:54

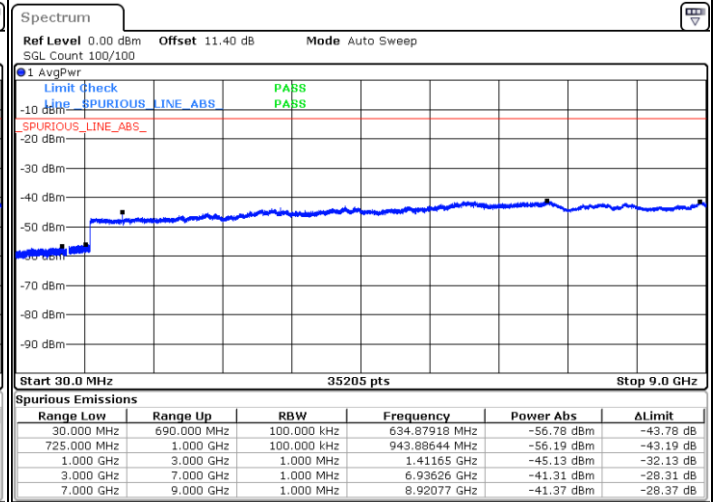


LTE Band 17 / 10MHz

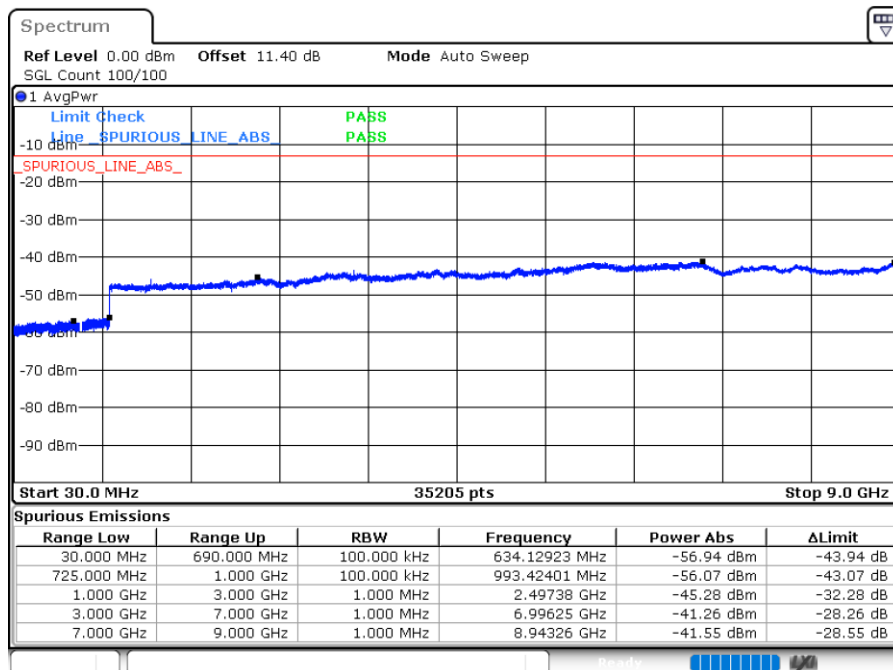
Lowest Channel / QPSK



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
50	Normal Voltage	0.0111	PASS
40	Normal Voltage	0.0101	
30	Normal Voltage	0.0148	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0080	
-10	Normal Voltage	0.0103	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0093	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



<Ant. 1>

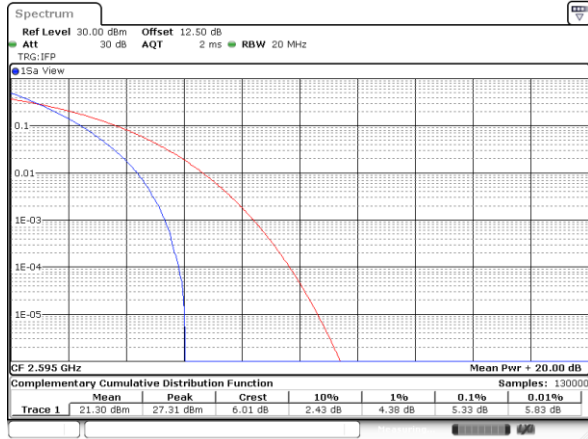
LTE Band 38**Peak-to-Average Ratio**

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.33	6.23	6.49	-	PASS



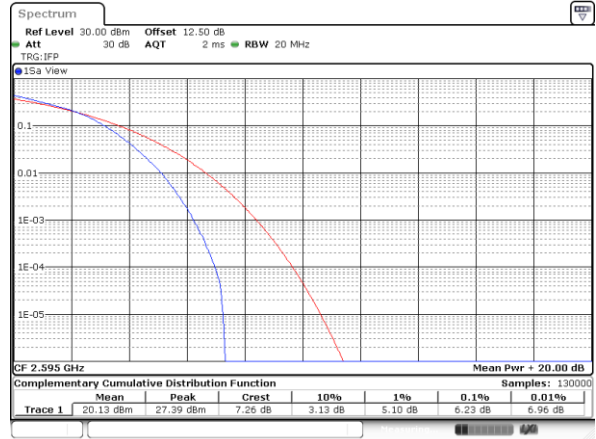
LTE Band 38 / 20MHz / QPSK

Middle Channel / Full RB



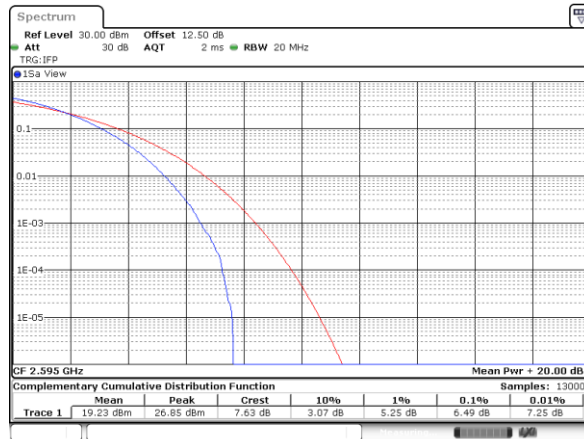
LTE Band 38 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 38 / 20MHz / 64QAM

Middle Channel / Full RB



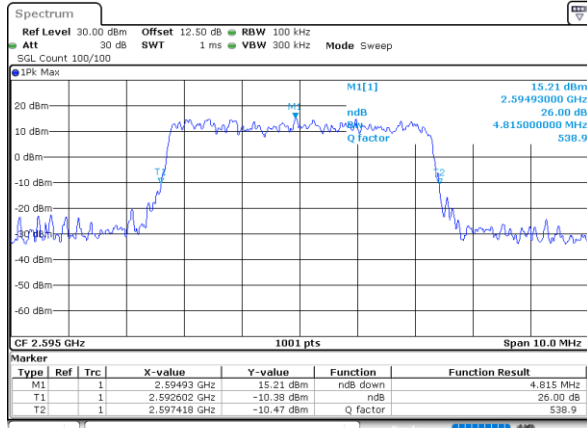
**26dB Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.81	4.80	9.78	9.71	14.26	14.14	18.82	18.82
Mode	LTE Band 38 : 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	-	-	-	-	4.84	-	9.71	-	14.20	-	18.74	-

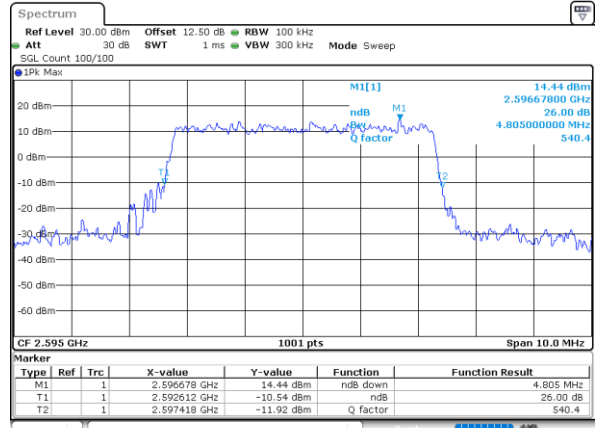


LTE Band 38

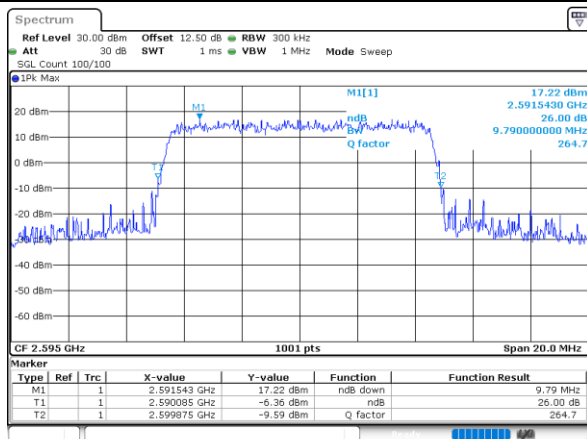
Middle Channel / 5MHz / QPSK



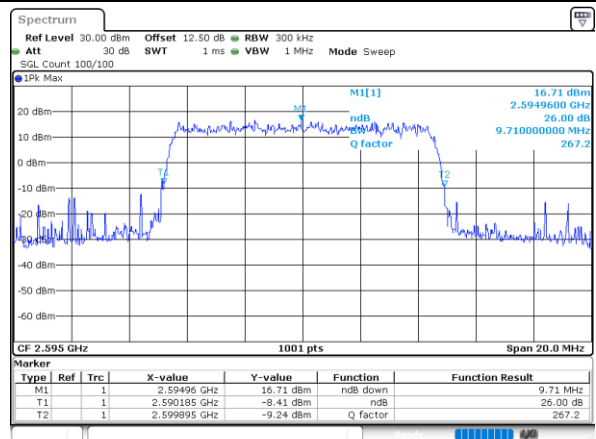
Middle Channel / 5MHz / 16QAM



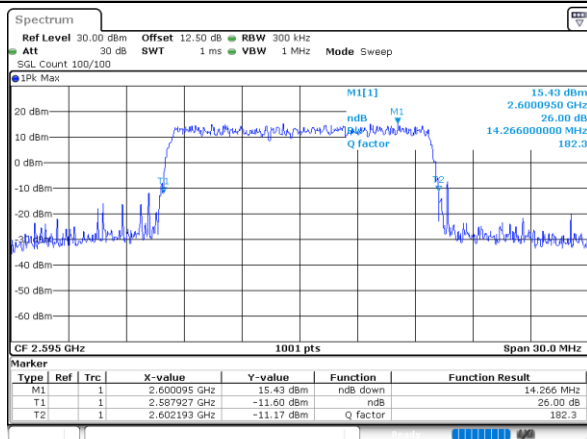
Middle Channel / 10MHz / QPSK



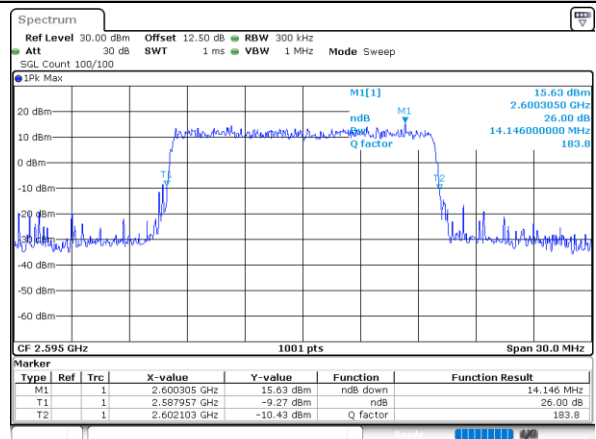
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



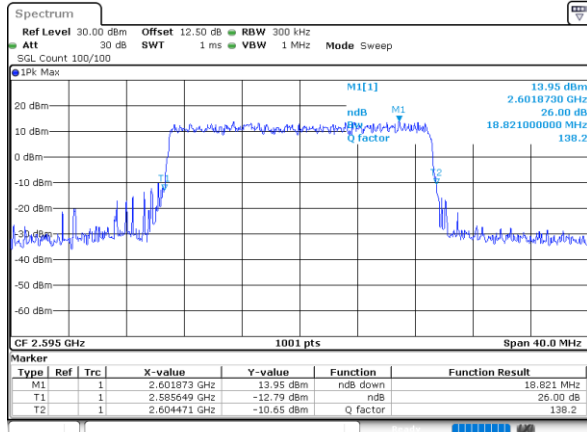
Middle Channel / 15MHz / 16QAM



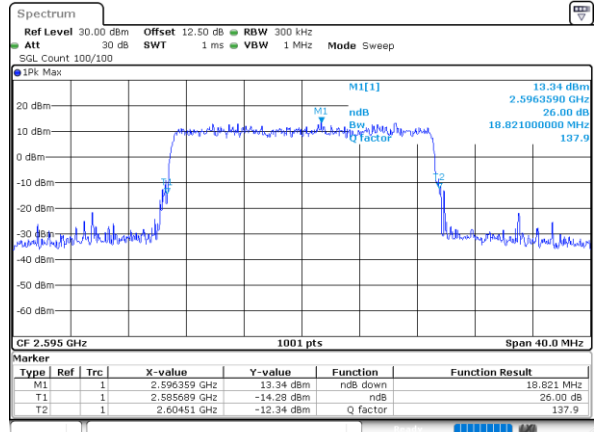


LTE Band 38

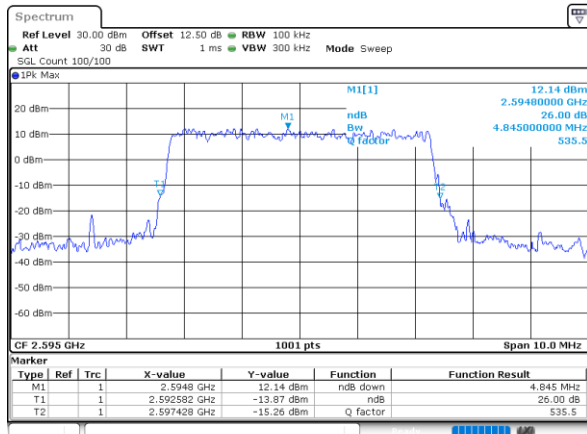
Middle Channel / 20MHz / QPSK



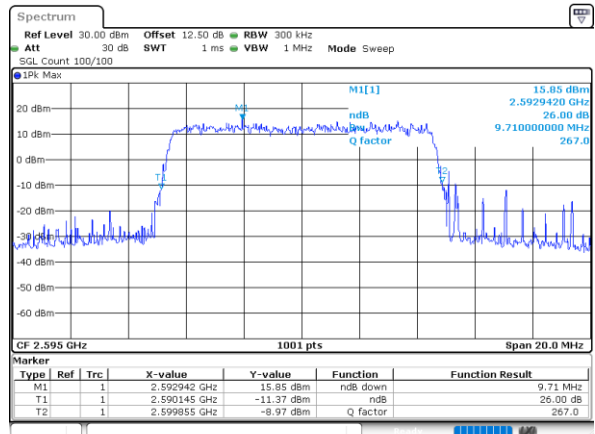
Middle Channel / 20MHz / 16QAM



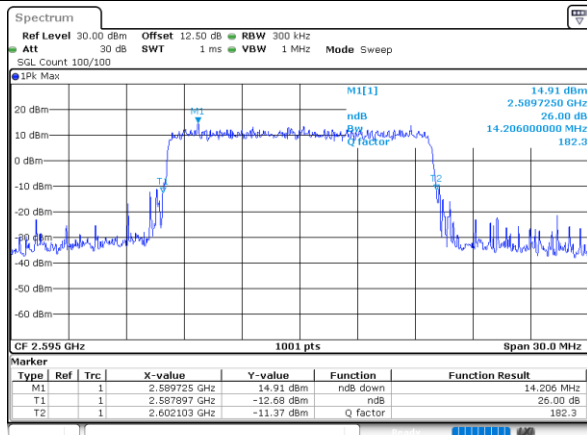
Middle Channel / 5MHz / 64QAM



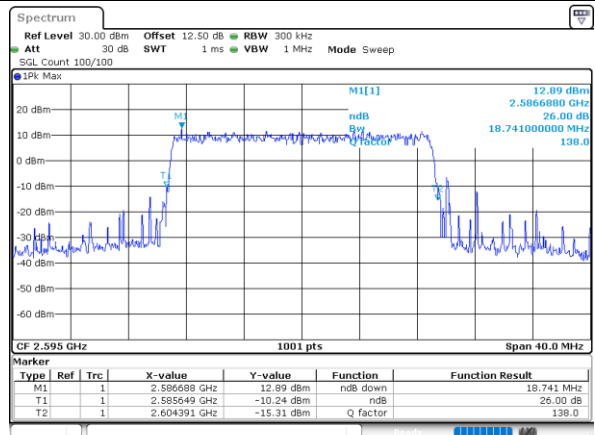
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



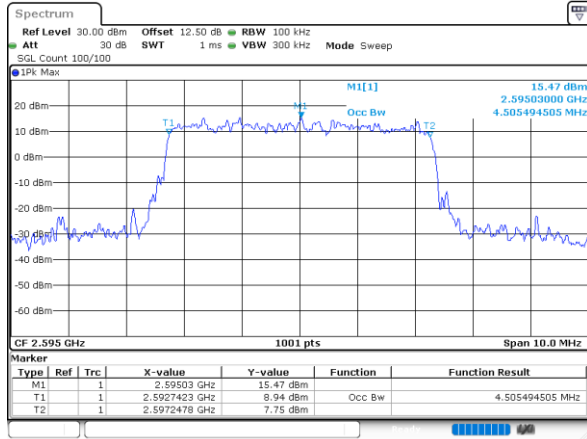
**Occupied Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.50	4.49	9.03	9.01	13.45	13.48	17.86	17.86
Mode	LTE Band 38 : 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	-	-	-	-	4.48	-	8.99	-	13.48	-	17.86	-



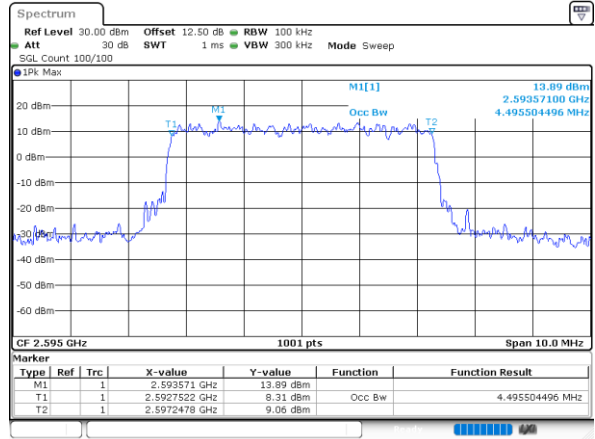
LTE Band 38

Middle Channel / 5MHz / QPSK



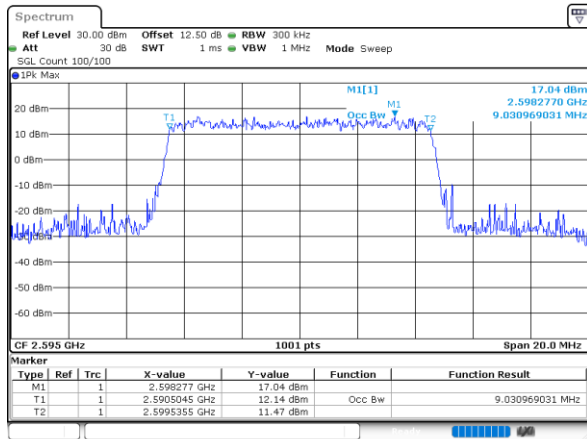
Date: 27.MAR.2024 11:49:13

Middle Channel / 5MHz / 16QAM



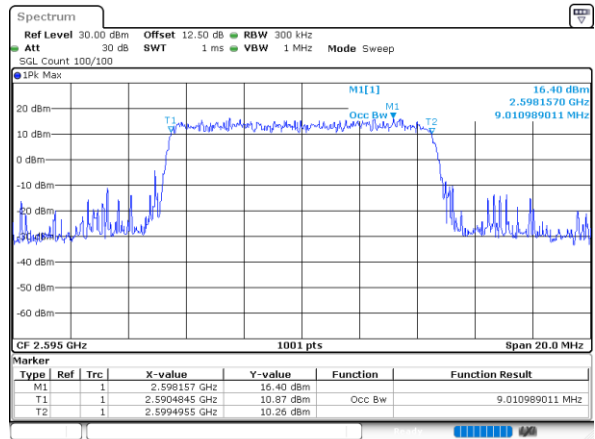
Date: 27.MAR.2024 11:50:16

Middle Channel / 10MHz / QPSK



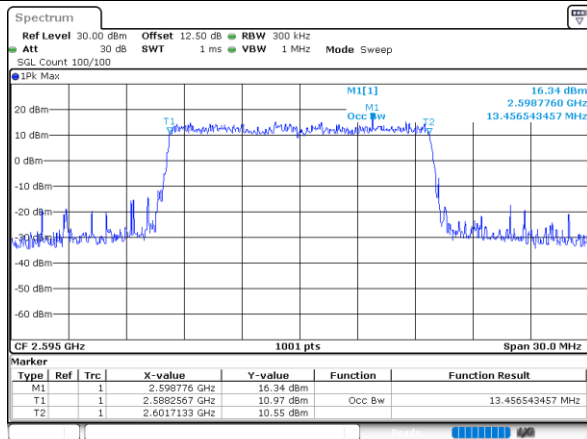
Date: 27.MAR.2024 12:09:46

Middle Channel / 10MHz / 16QAM



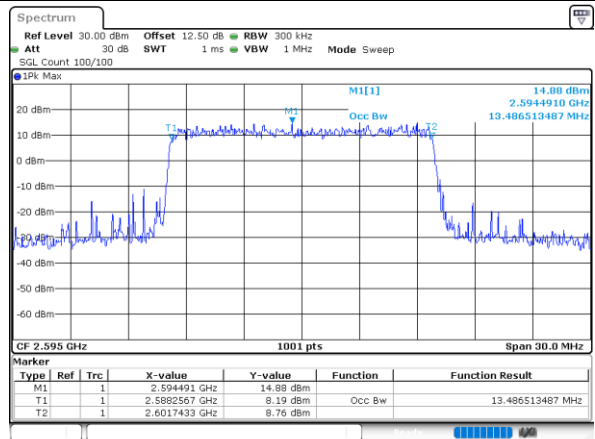
Date: 27.MAR.2024 12:10:40

Middle Channel / 15MHz / QPSK



Date: 27.MAR.2024 12:30:52

Middle Channel / 15MHz / 16QAM

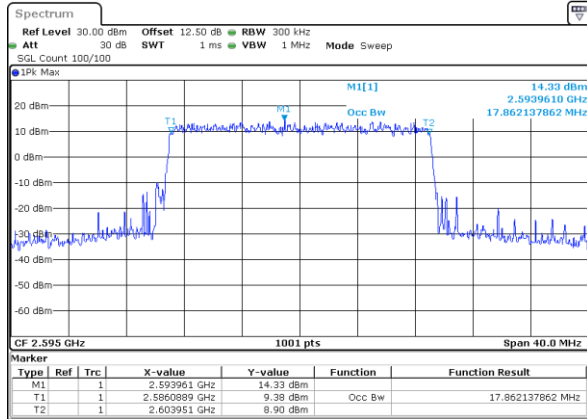


Date: 27.MAR.2024 12:31:43



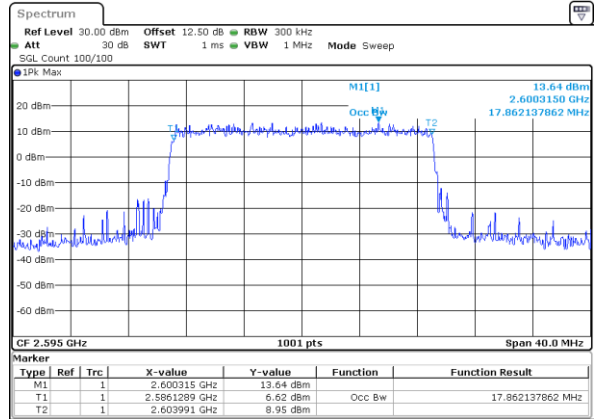
LTE Band 38

Middle Channel / 20MHz / QPSK



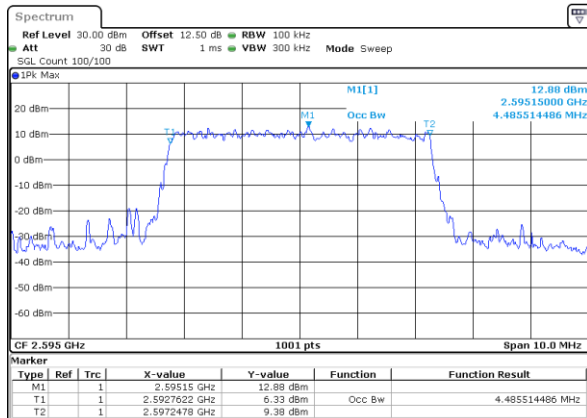
Date: 27.MAR.2024 12:51:36

Middle Channel / 20MHz / 16QAM



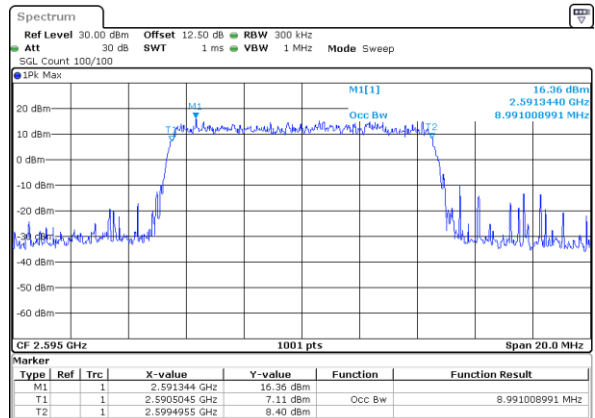
Date: 27.MAR.2024 12:52:26

Middle Channel / 5MHz / 64QAM



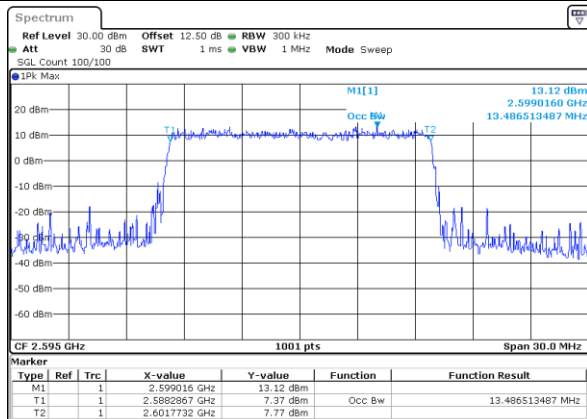
Date: 27.MAR.2024 11:51:11

Middle Channel / 10MHz / 64QAM



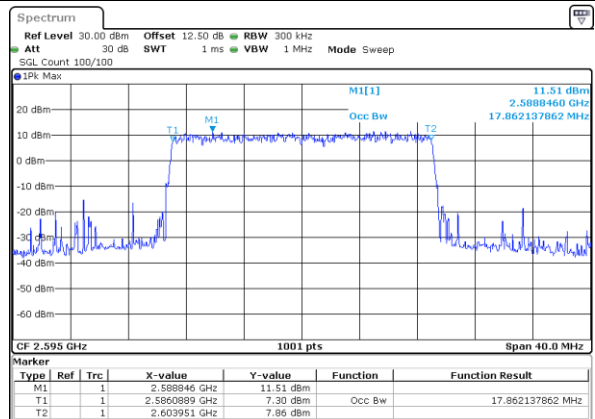
Date: 27.MAR.2024 12:11:39

Middle Channel / 15MHz / 64QAM

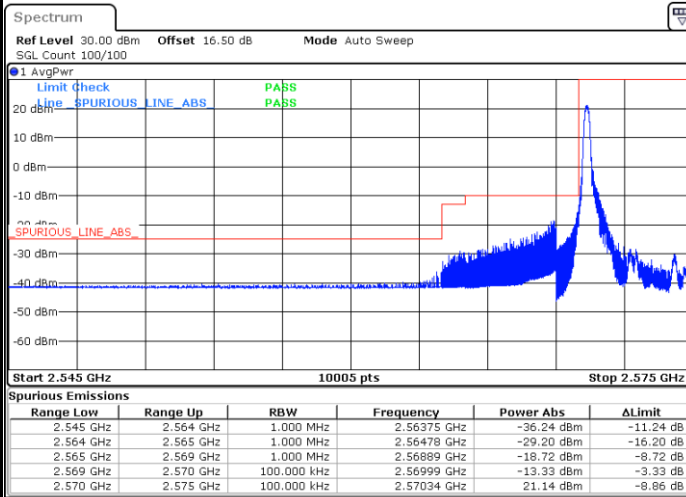


Date: 27.MAR.2024 12:32:36

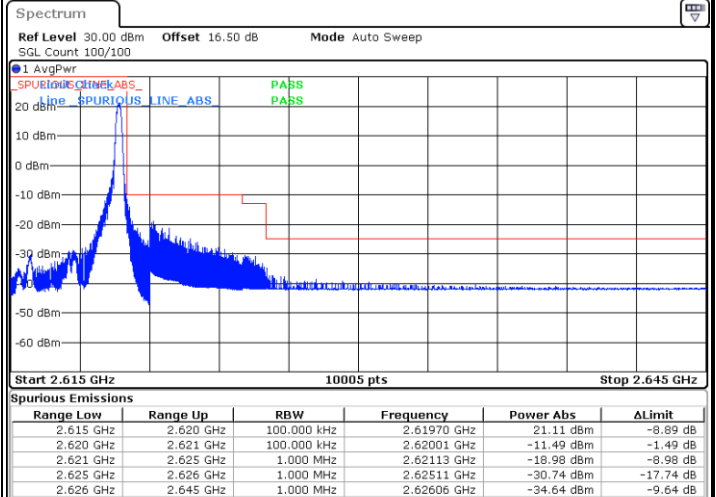
Middle Channel / 20MHz / 64QAM



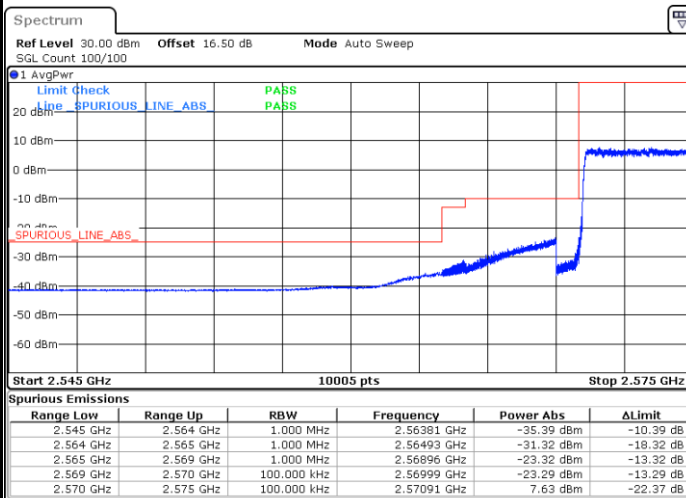
Date: 27.MAR.2024 12:53:26

**Conducted Band Edge****LTE Band 38 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

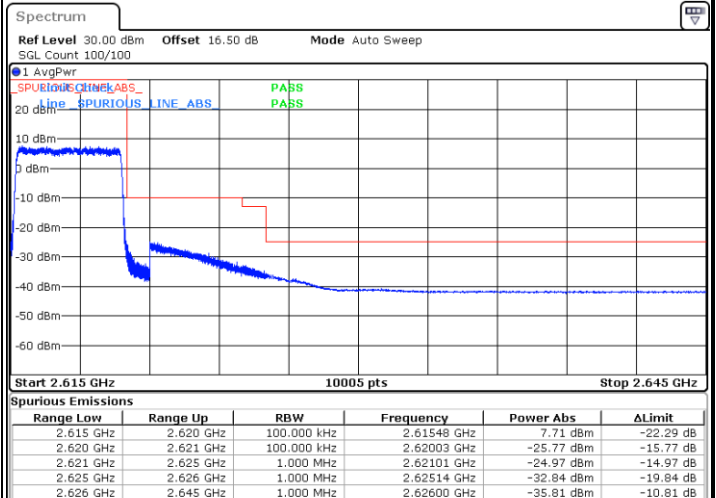
Date: 27.MAR.2024 11:28:26

Highest Band Edge / 1 RB

Date: 27.MAR.2024 11:44:24

Lowest Band Edge / Full RB

Date: 27.MAR.2024 11:33:50

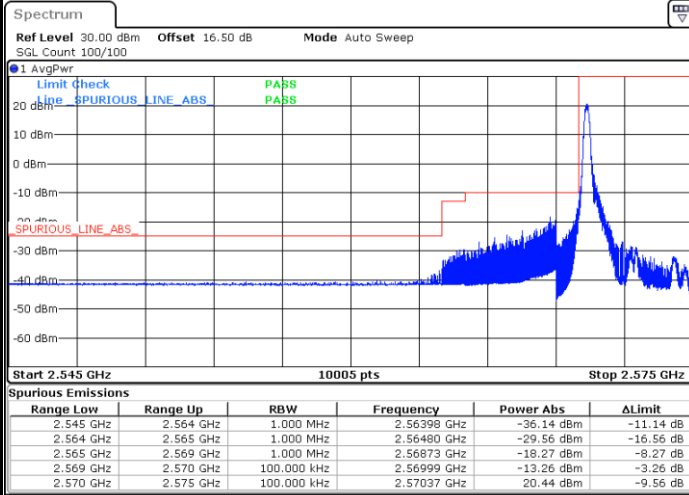
Highest Band Edge / Full RB

Date: 27.MAR.2024 11:39:03

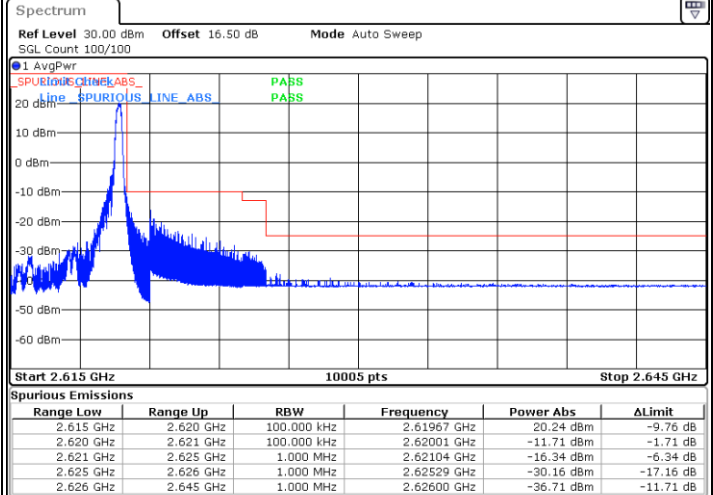


LTE Band 38 / 5MHz / 16QAM

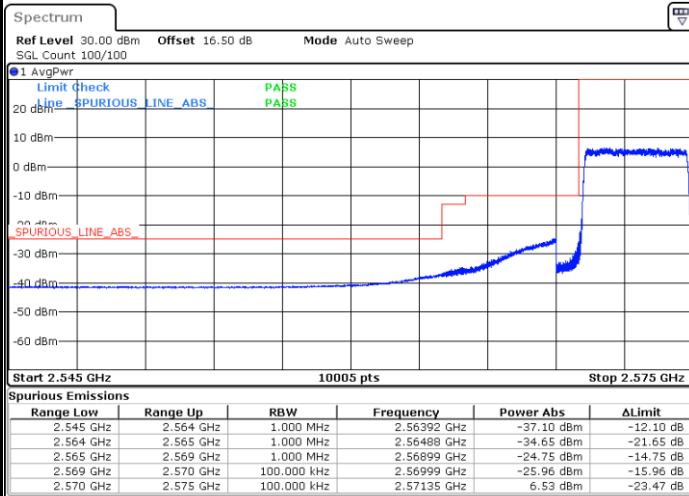
Lowest Band Edge / 1RB



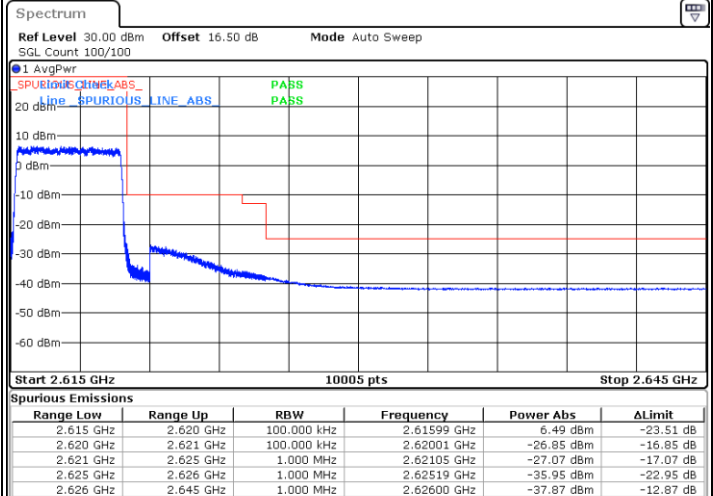
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



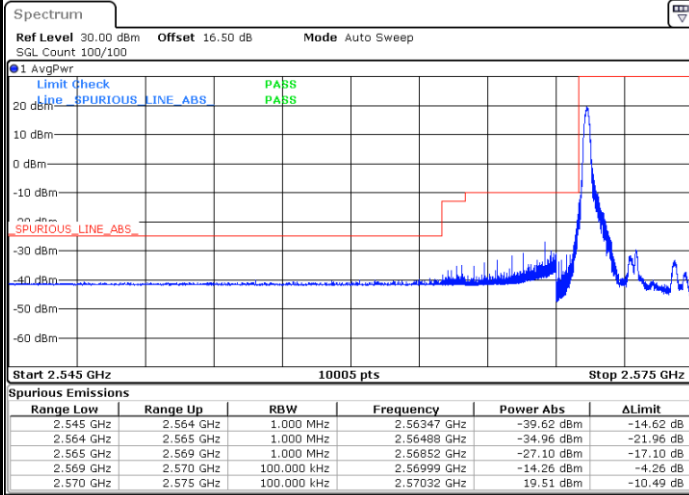
Highest Band Edge / Full RB



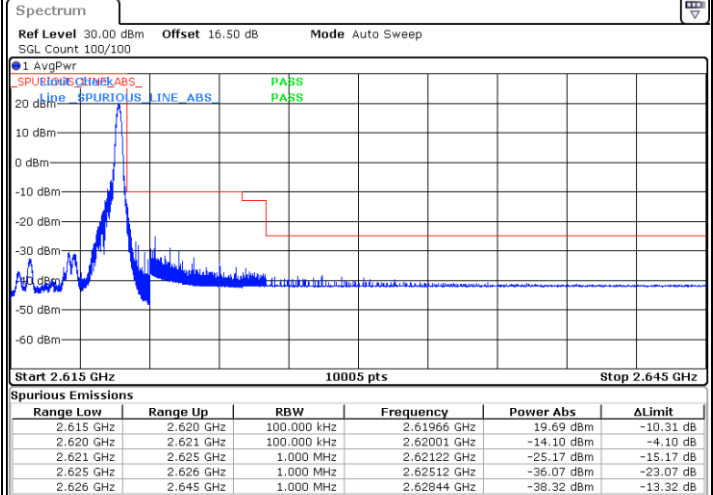


LTE Band 38 / 5MHz / 64QAM

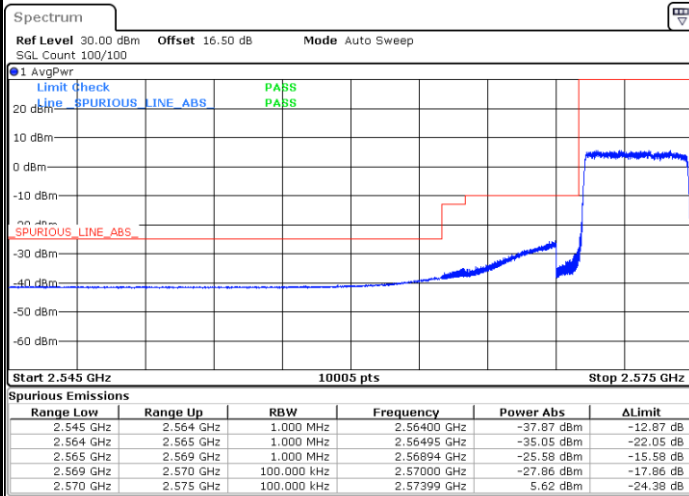
Lowest Band Edge / 1RB



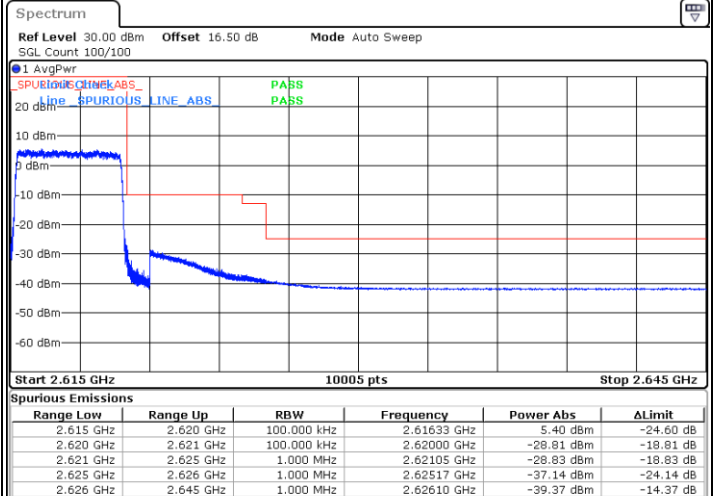
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



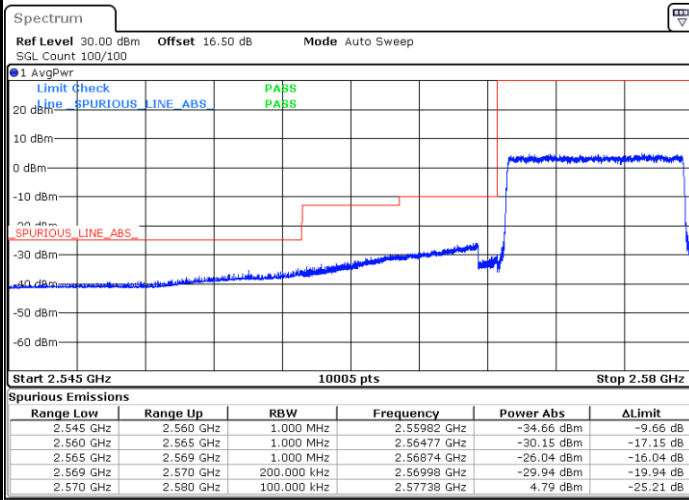
Highest Band Edge / Full RB



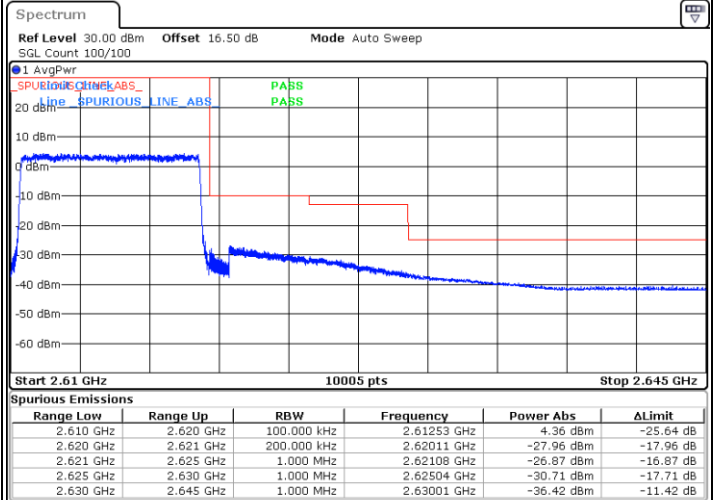


LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / Full RB

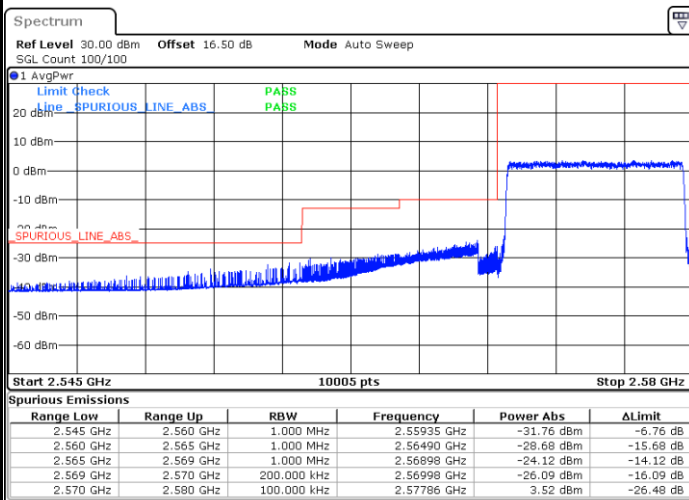


Highest Band Edge / Full RB

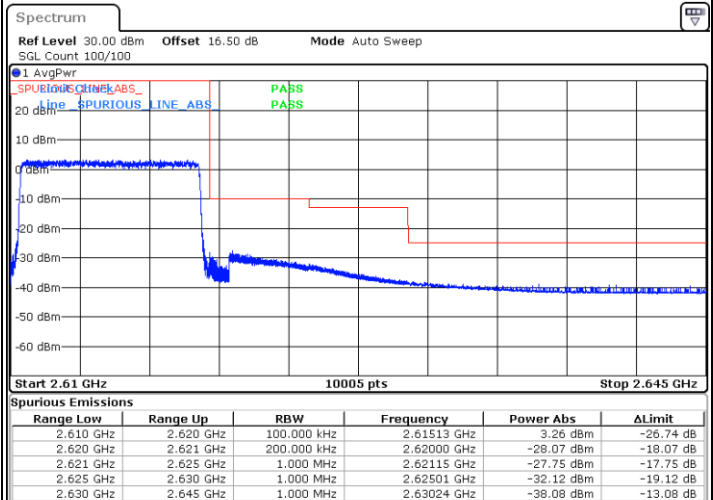


LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



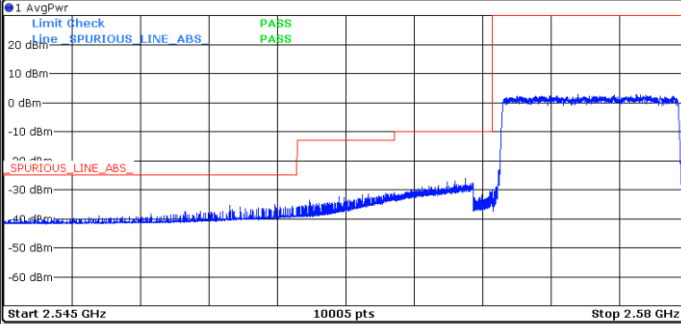


LTE Band 38 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 16.50 dB Mode Auto Sweep
SGL Count 100/100

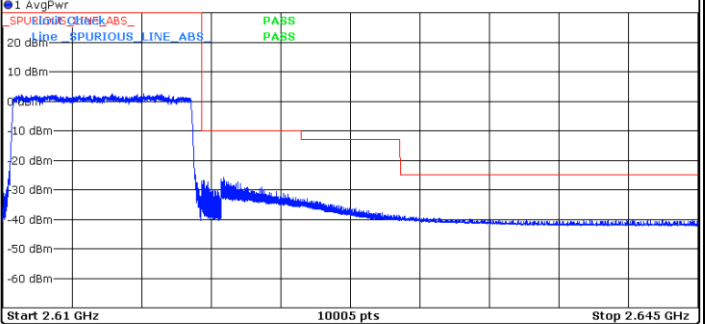
Start 2.545 GHz 10005 pts Stop 2.58 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.560 GHz	1.000 MHz	2.55885 GHz	-35.16 dBm	-10.16 dB
2.560 GHz	2.565 GHz	1.000 MHz	2.56498 GHz	-31.00 dBm	-18.00 dB
2.565 GHz	2.569 GHz	1.000 MHz	2.56962 GHz	-26.20 dBm	-16.20 dB
2.569 GHz	2.570 GHz	200.000 kHz	2.56999 GHz	-30.20 dBm	-20.20 dB
2.570 GHz	2.580 GHz	100.000 kHz	2.57733 GHz	2.69 dBm	-27.31 dB

Date: 27.MAR.2024 12:04:03

Spectrum

Ref Level 30.00 dBm Offset 16.50 dB Mode Auto Sweep
SGL Count 100/100

Start 2.61 GHz 10005 pts Stop 2.645 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.610 GHz	2.620 GHz	100.000 kHz	2.61551 GHz	2.45 dBm	-27.55 dB
2.620 GHz	2.621 GHz	200.000 kHz	2.62008 GHz	-26.84 dBm	-16.84 dB
2.621 GHz	2.625 GHz	1.000 MHz	2.62112 GHz	-25.88 dBm	-15.88 dB
2.625 GHz	2.630 GHz	1.000 MHz	2.62535 GHz	-32.99 dBm	-19.99 dB
2.630 GHz	2.645 GHz	1.000 MHz	2.63022 GHz	-38.92 dBm	-13.92 dB

Date: 27.MAR.2024 12:08:57