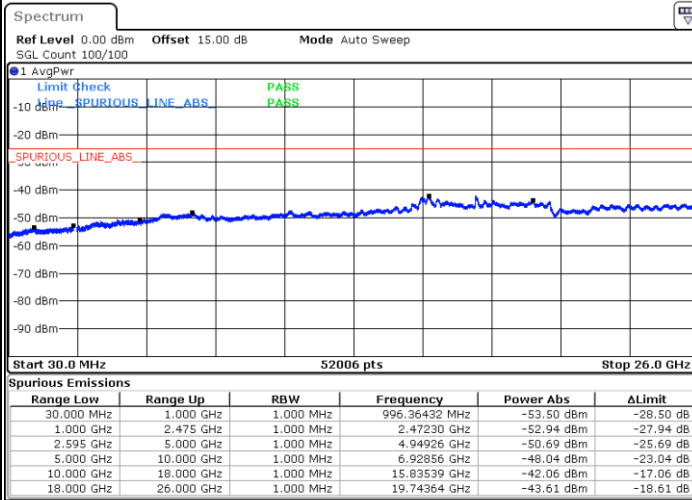




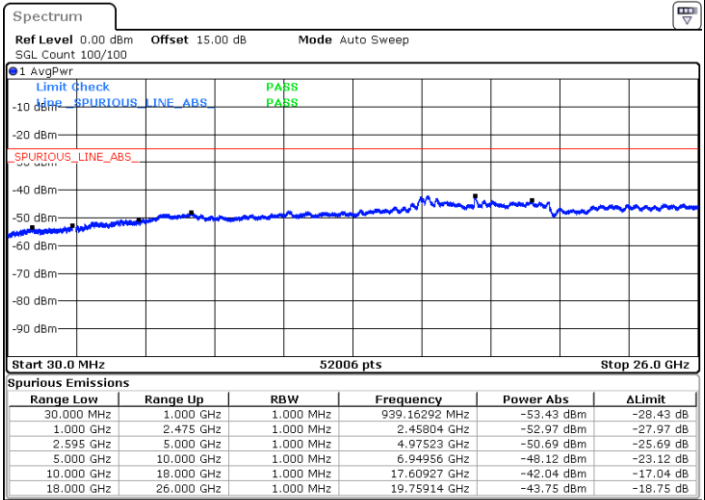
LTE Band 7 / 20MHz

Lowest Channel / QPSK



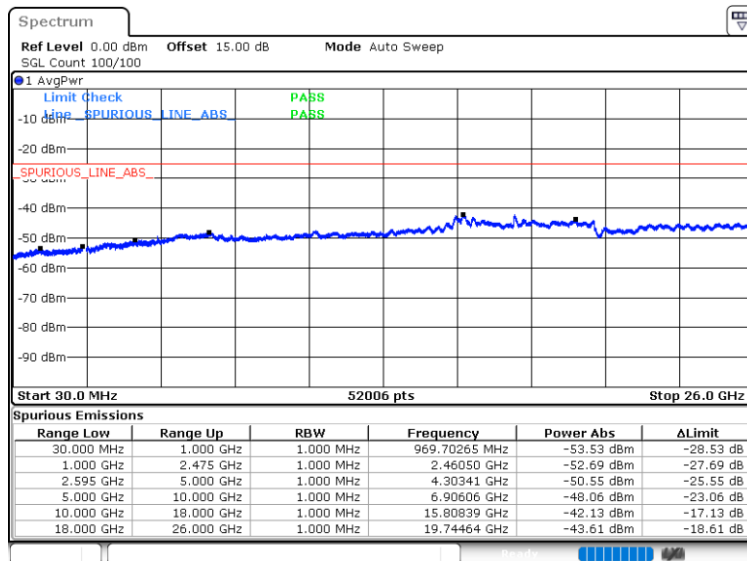
Date: 27.DEC.2023 21:13:14

Middle Channel / QPSK



Date: 27.DEC.2023 21:14:24

Highest Channel / QPSK



Date: 27.DEC.2023 21:24:30

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

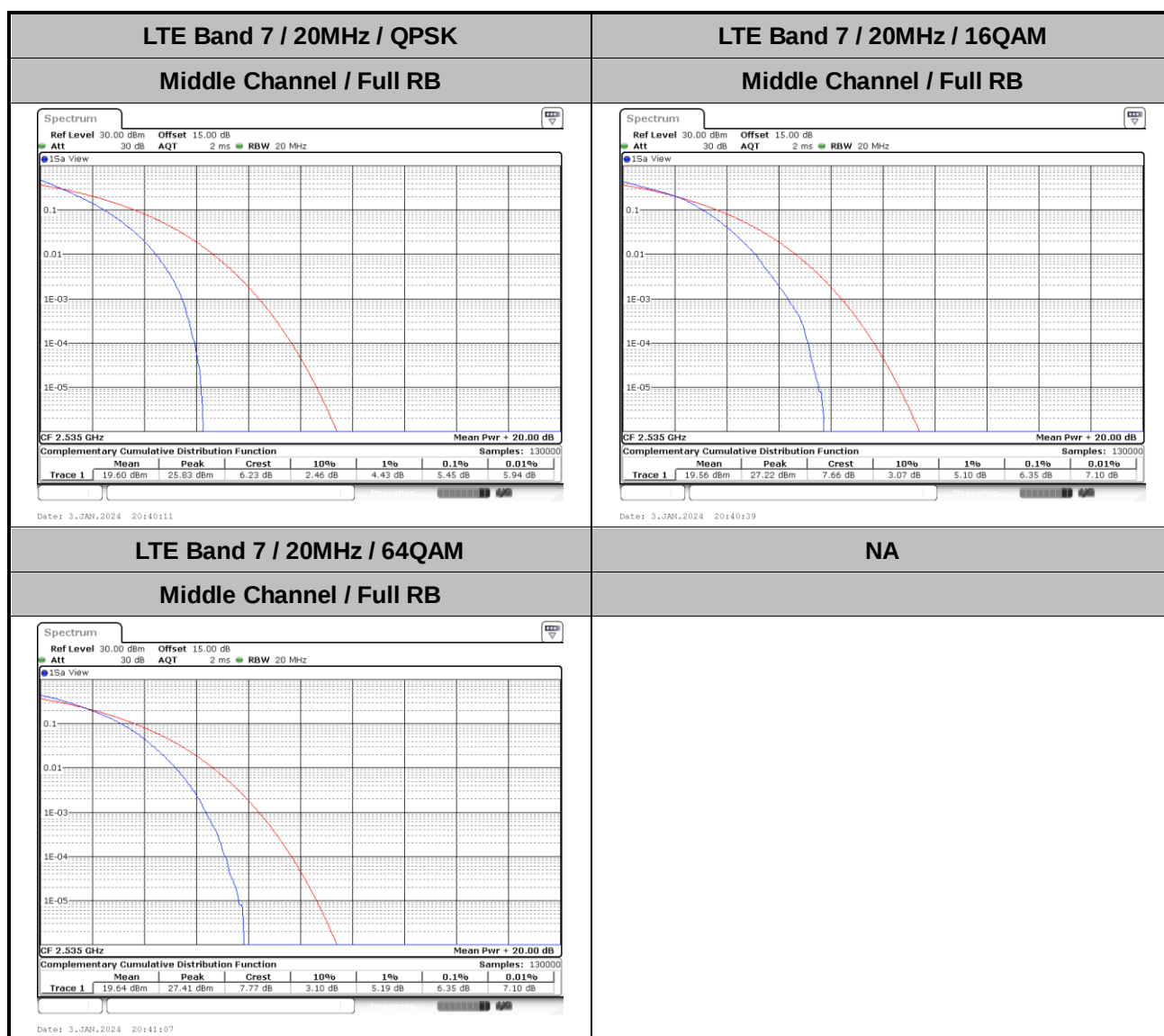
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7(Other PA)

Peak-to-Average Ratio

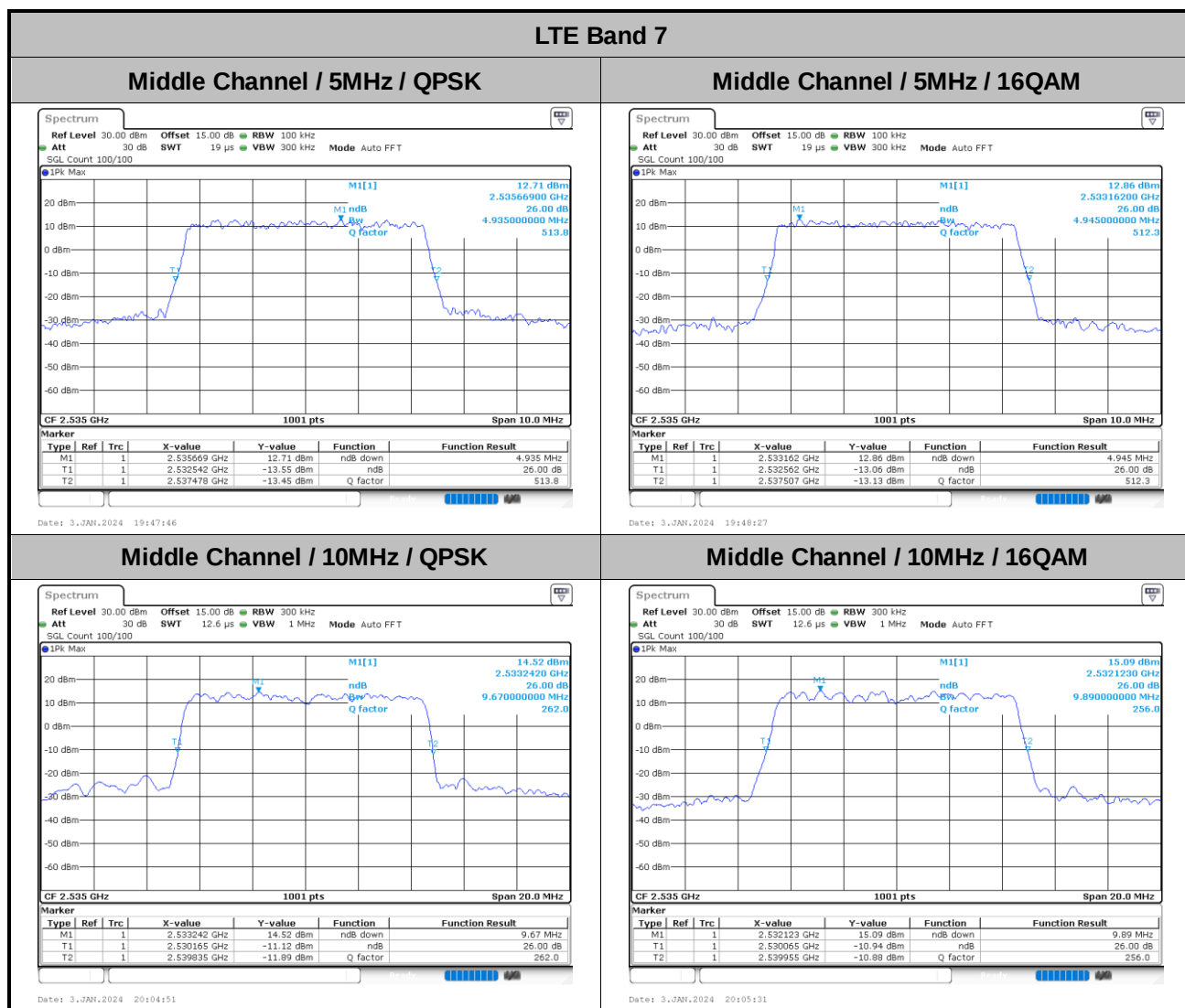
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.45	6.35	6.35	PASS





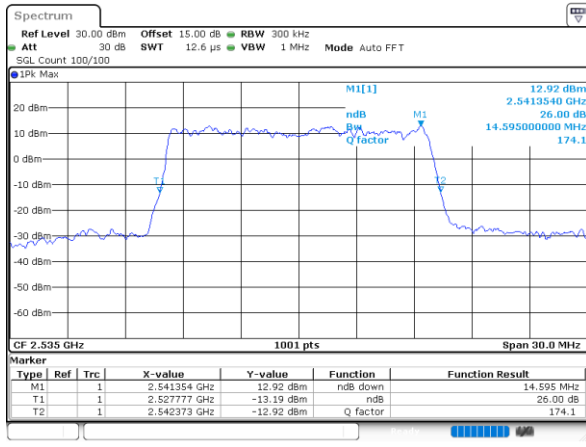
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.94	4.95	9.67	9.89	14.60	14.51	18.98	18.82



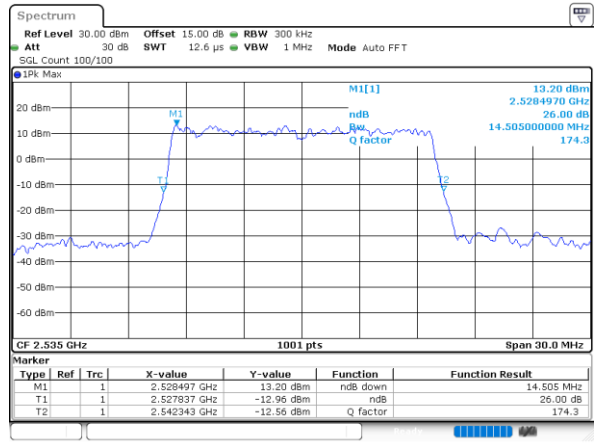


Middle Channel / 15MHz / QPSK



Date: 3,JAN,2024 20:21:57

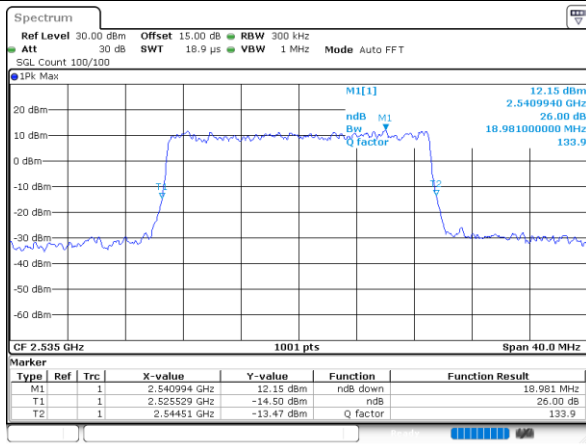
Middle Channel / 15MHz / 16QAM



Date: 3,JAN,2024 20:22:37

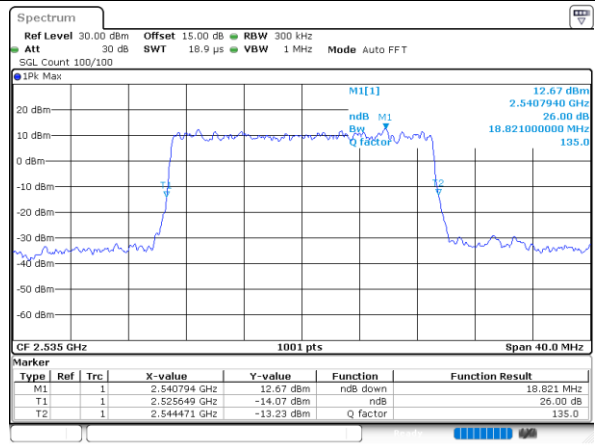
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 3,JAN,2024 20:39:03

Middle Channel / 20MHz / 16QAM



Date: 3,JAN,2024 20:39:44

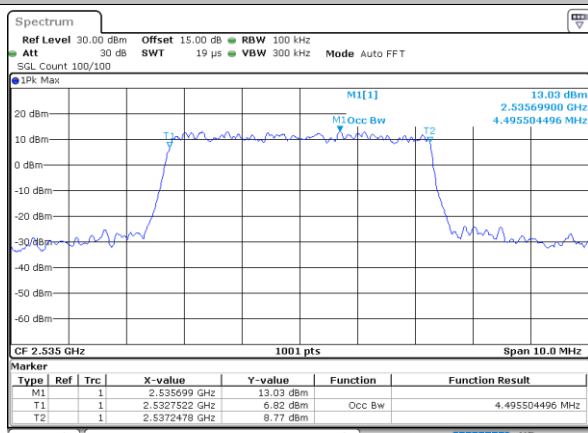


Occupied Bandwidth

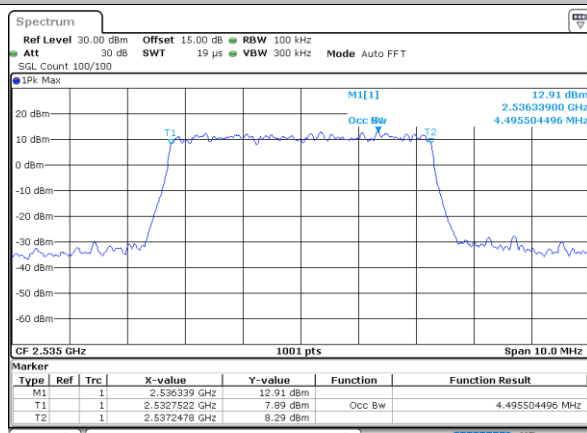
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	-			5MHz		10MHz		15MHz		20MHz		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.50	9.05	9.05	13.46	13.43	17.90	17.82

LTE Band 7

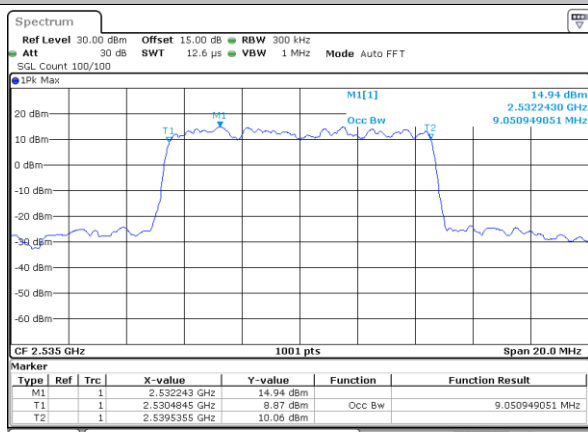
Middle Channel / 5MHz / QPSK



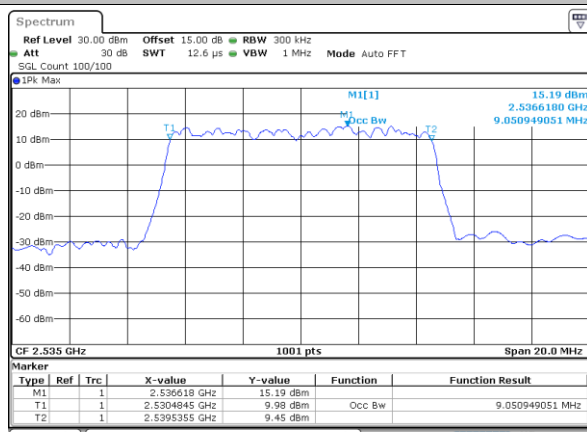
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK

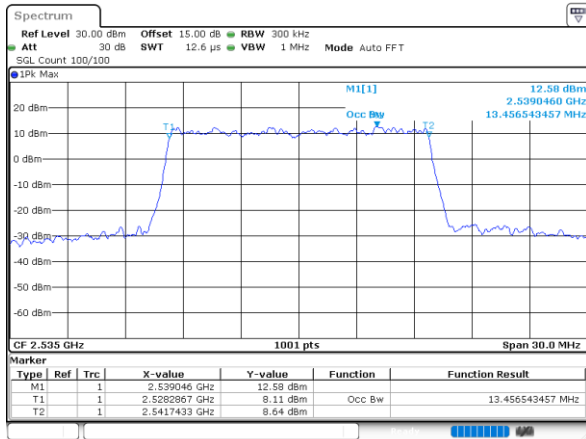


Middle Channel / 10MHz / 16QAM



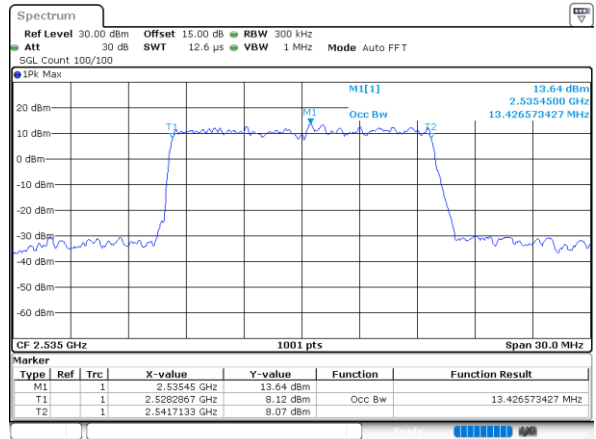


Middle Channel / 15MHz / QPSK



Date: 3,JAN,2024 20:21:43

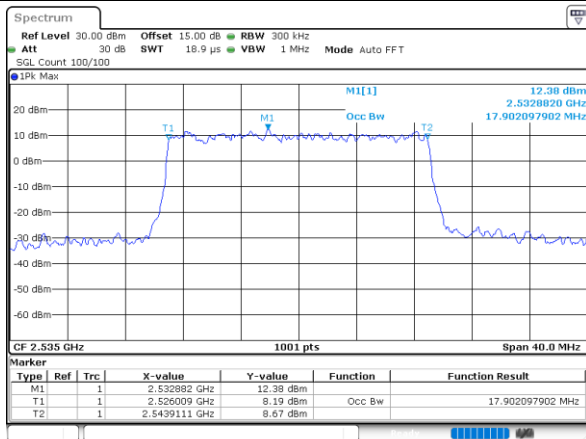
Middle Channel / 15MHz / 16QAM



Date: 3,JAN,2024 20:22:23

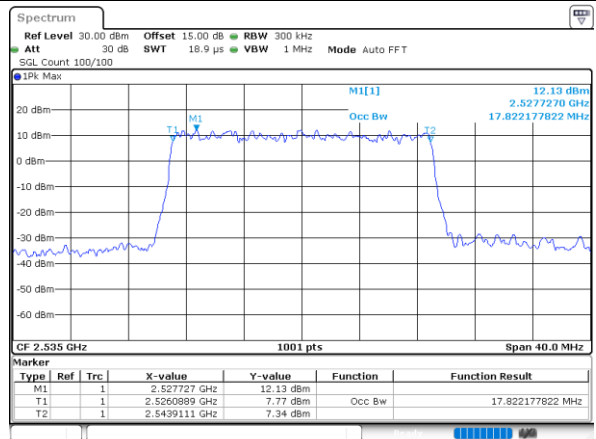
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 3,JAN,2024 20:38:49

Middle Channel / 20MHz / 16QAM



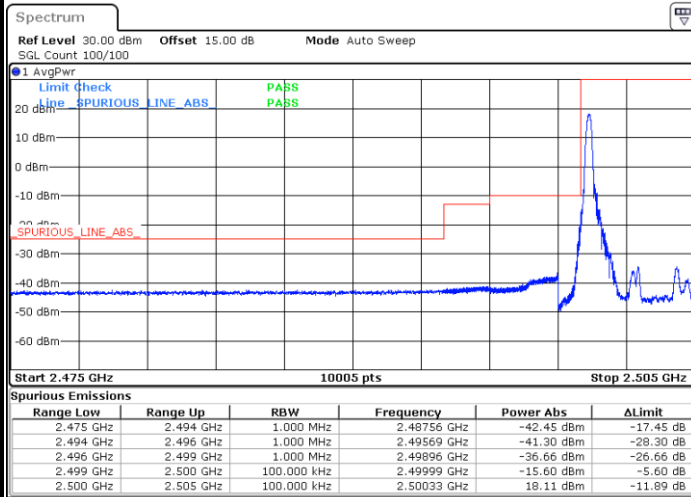
Date: 3,JAN,2024 20:39:30



Conducted Band Edge

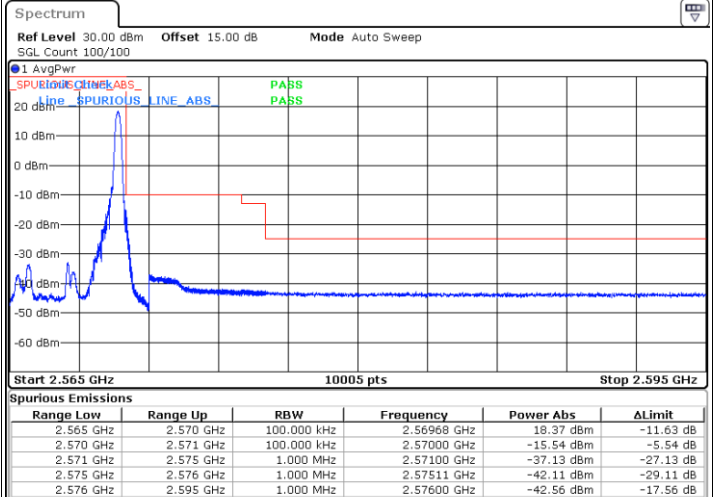
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



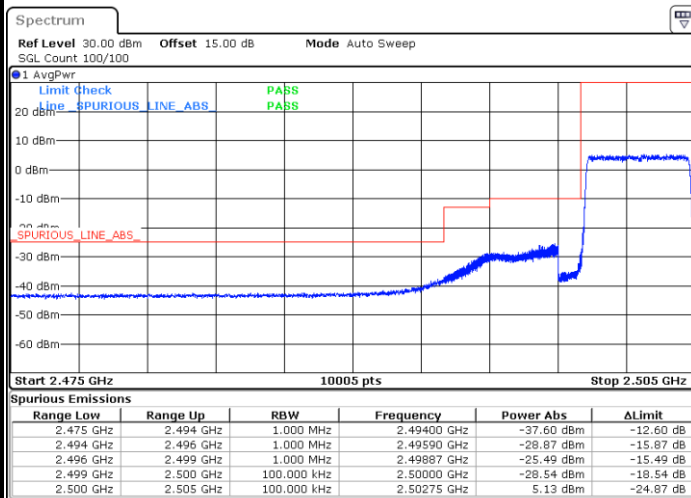
Date: 3.JAN.2024 19:39:57

Highest Band Edge / 1 RB



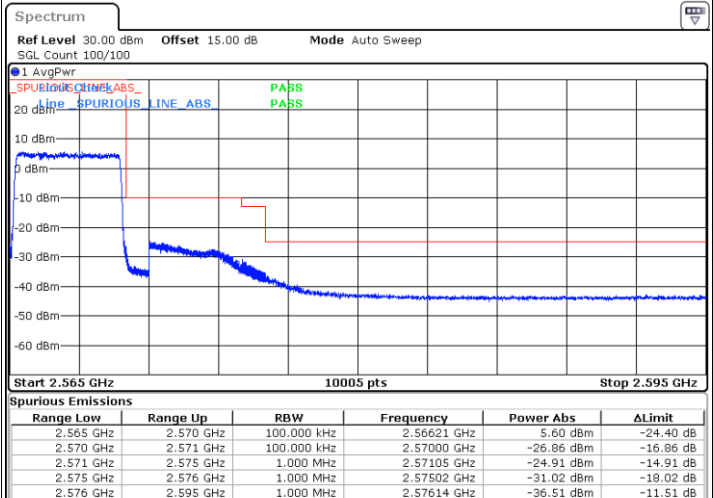
Date: 3.JAN.2024 19:49:22

Lowest Band Edge / Full RB



Date: 3.JAN.2024 19:42:49

Highest Band Edge / Full RB

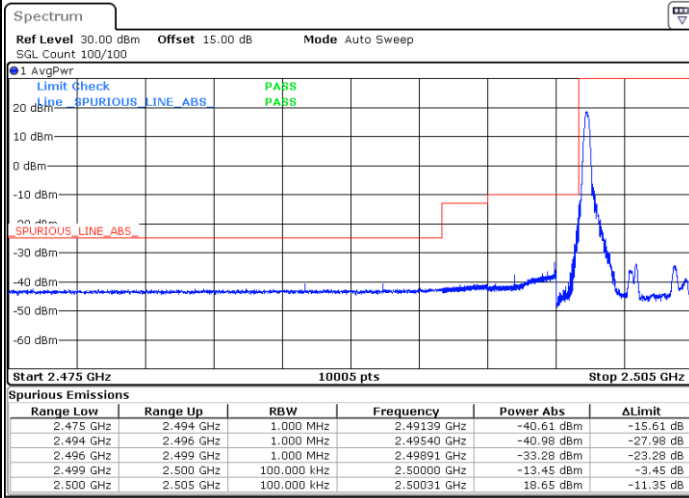


Date: 3.JAN.2024 19:52:14



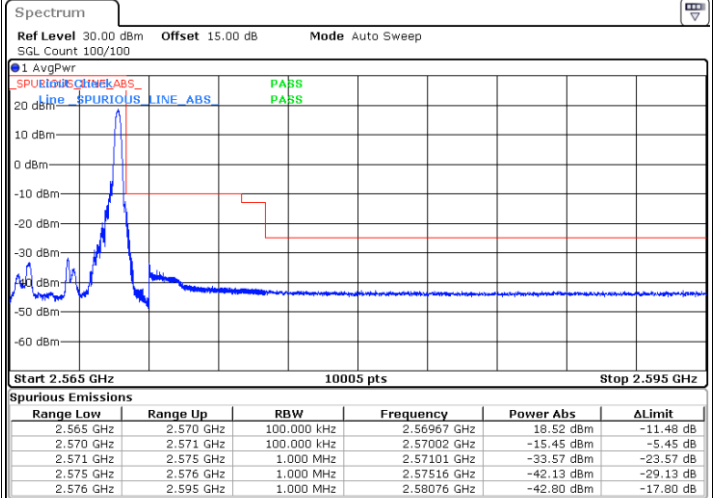
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



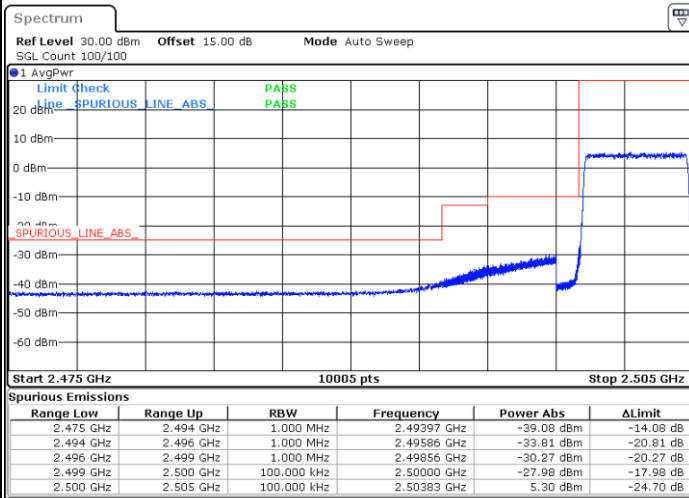
Date: 3.JAN.2024 19:40:55

Highest Band Edge / 1 RB



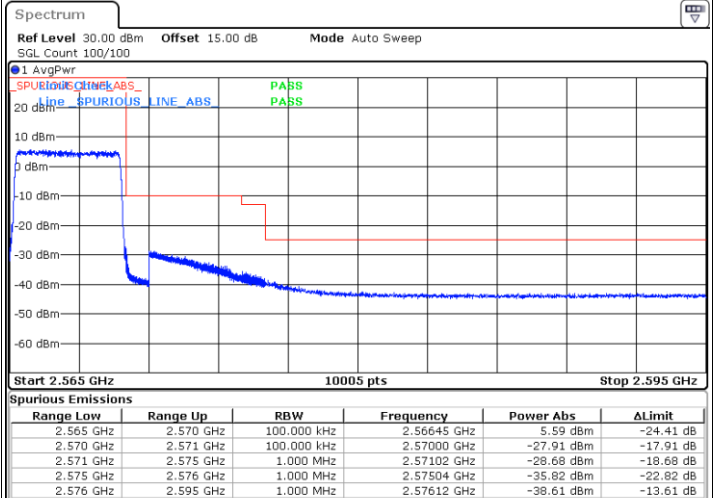
Date: 3.JAN.2024 19:50:20

Lowest Band Edge / Full RB



Date: 3.JAN.2024 19:43:47

Highest Band Edge / Full RB

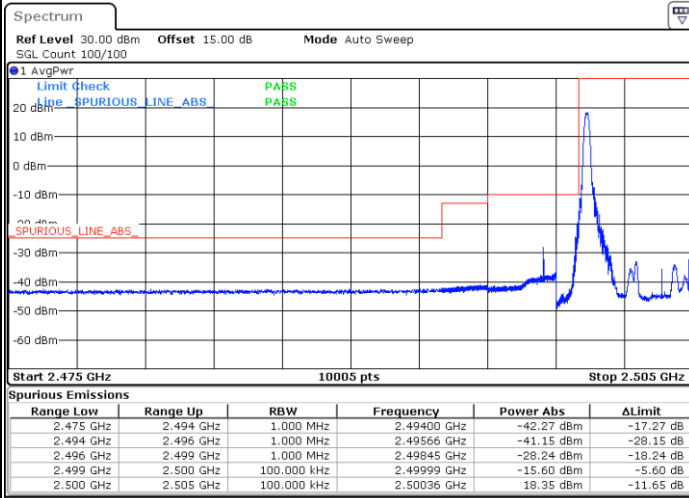


Date: 3.JAN.2024 19:53:11



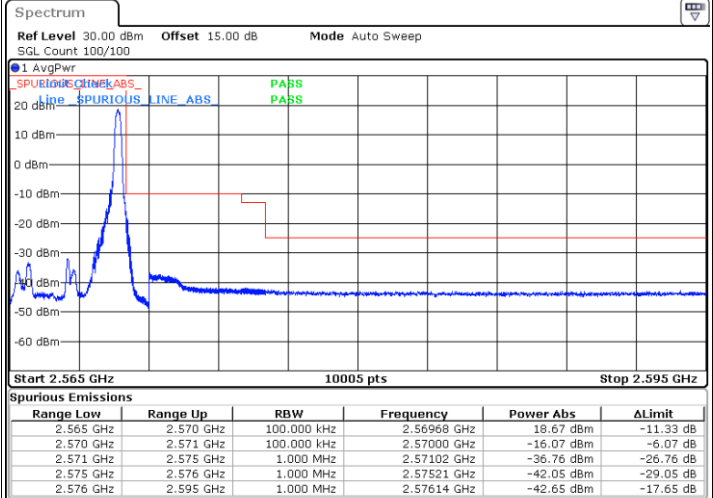
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



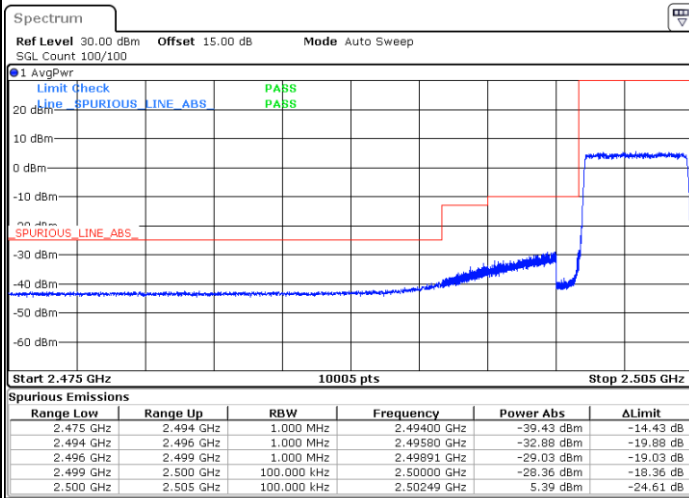
Date: 3.JAN.2024 19:41:52

Highest Band Edge / 1 RB



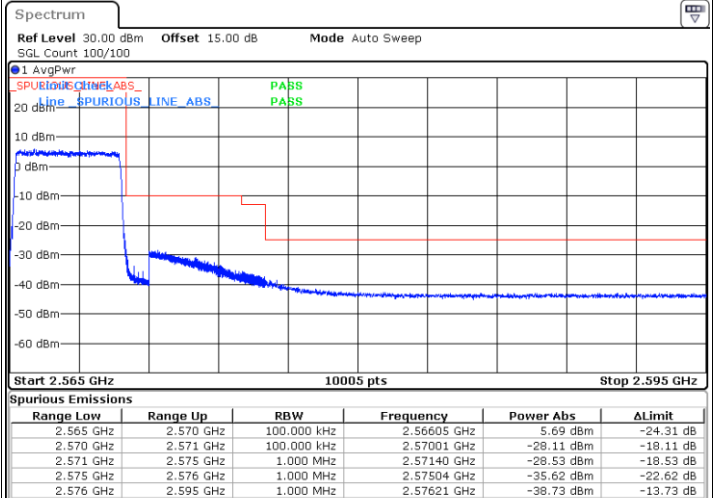
Date: 3.JAN.2024 19:51:17

Lowest Band Edge / Full RB



Date: 3.JAN.2024 19:44:44

Highest Band Edge / Full RB

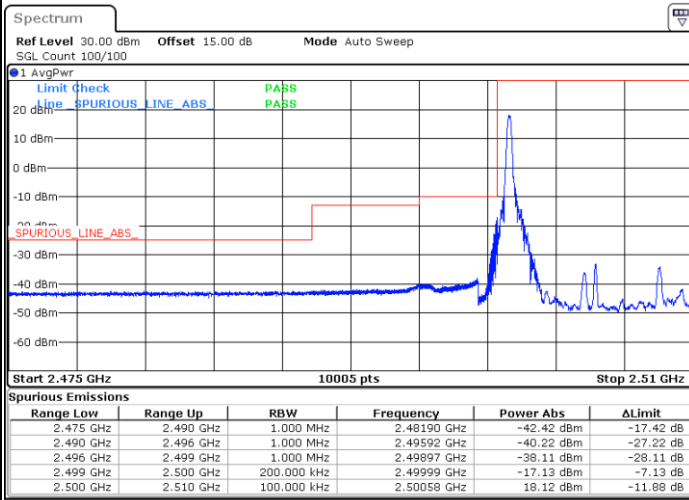


Date: 3.JAN.2024 19:54:08

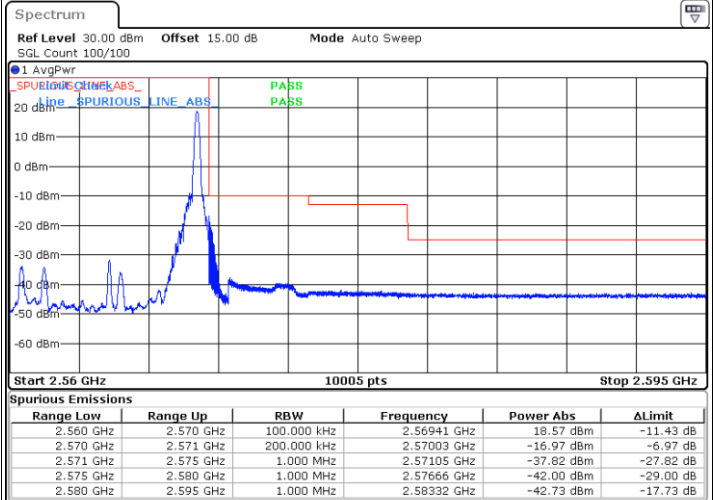


LTE Band 7 / 10MHz / QPSK

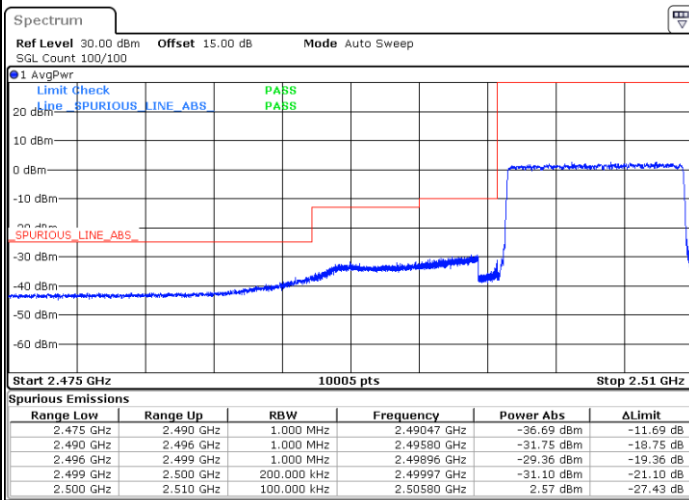
Lowest Band Edge / 1 RB



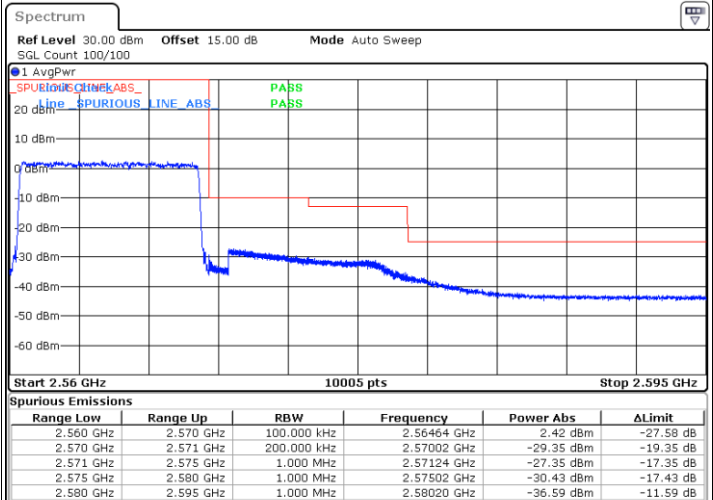
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



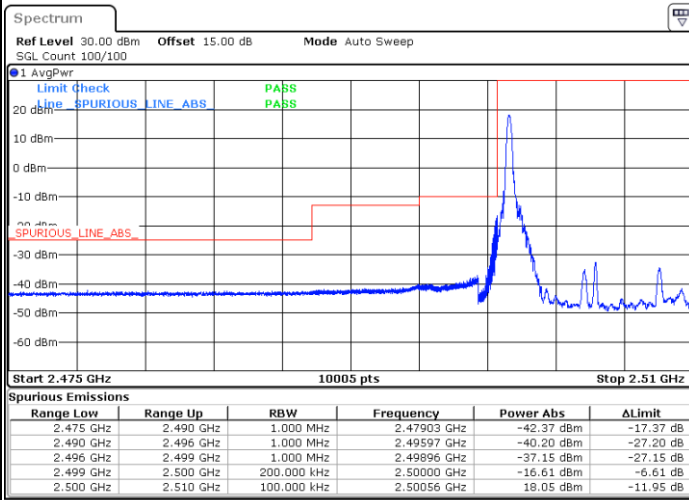
Highest Band Edge / Full RB



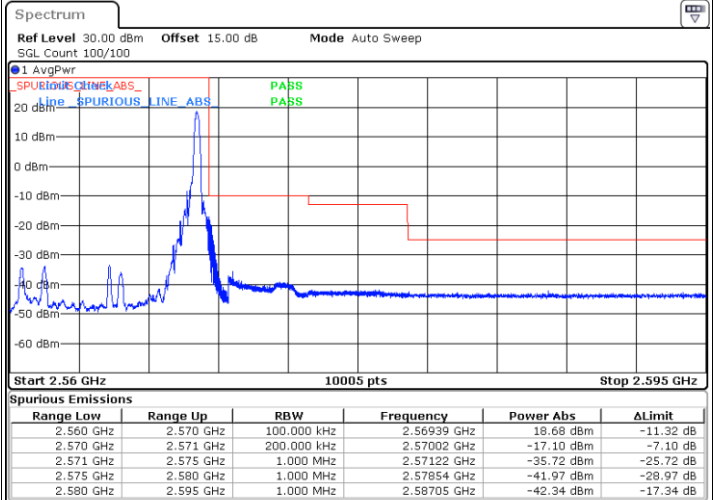


LTE Band 7 / 10MHz / 16QAM

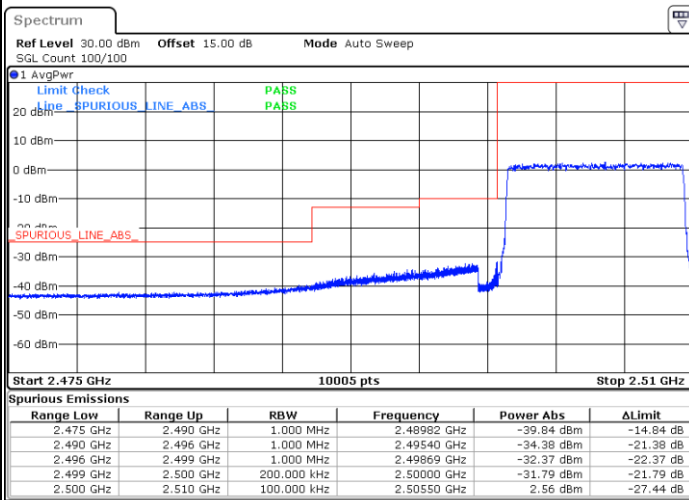
Lowest Band Edge / 1RB



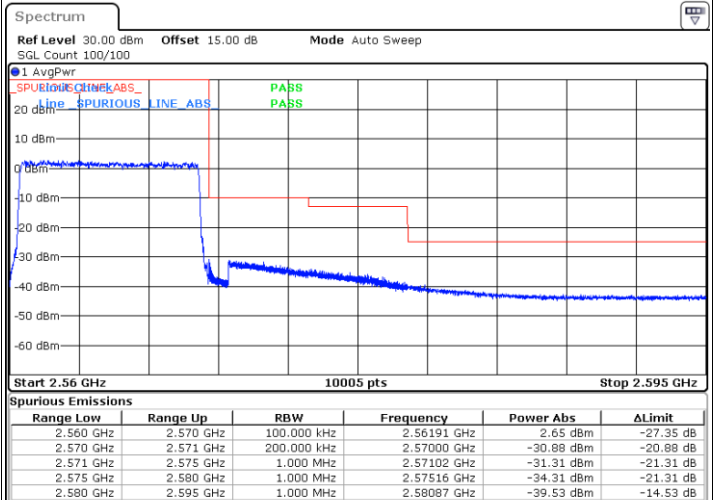
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



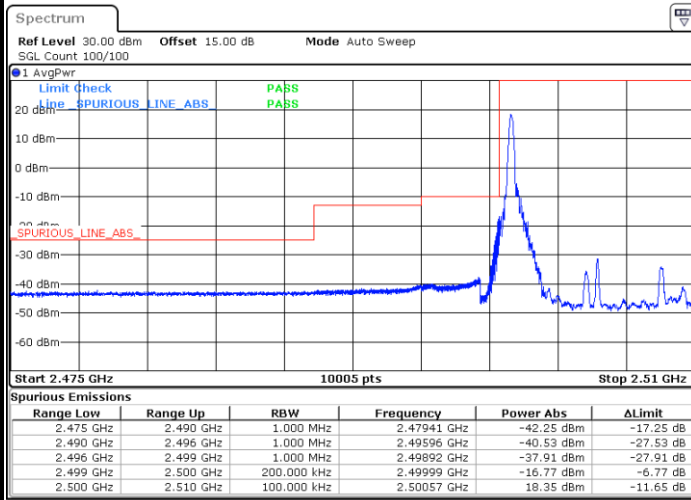
Highest Band Edge / Full RB



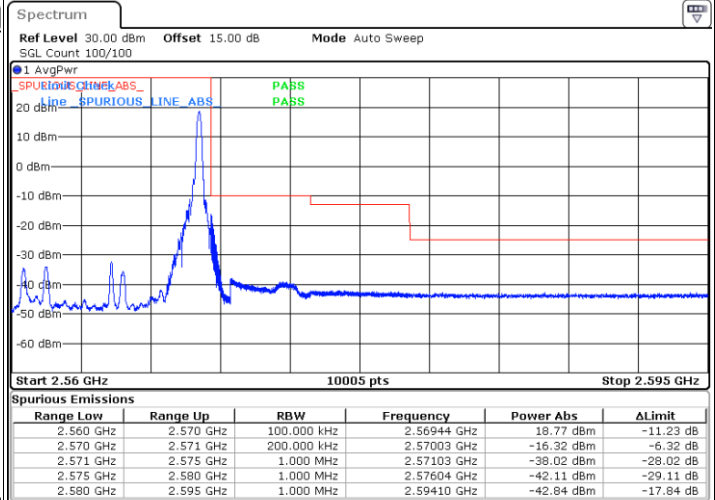


LTE Band 7 / 10MHz / 64QAM

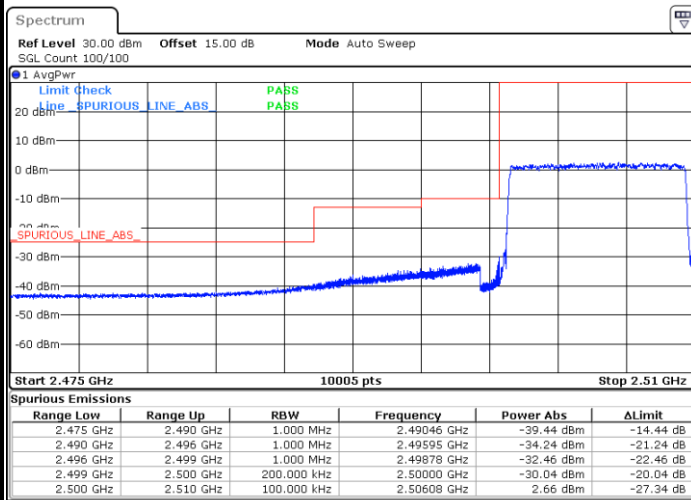
Lowest Band Edge / 1RB



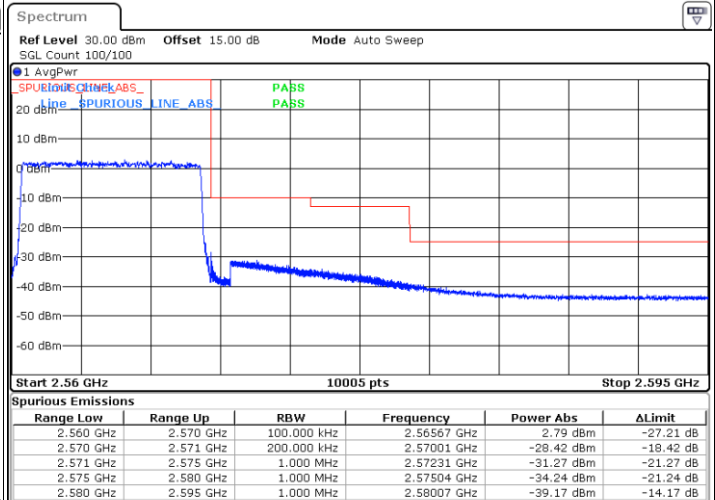
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



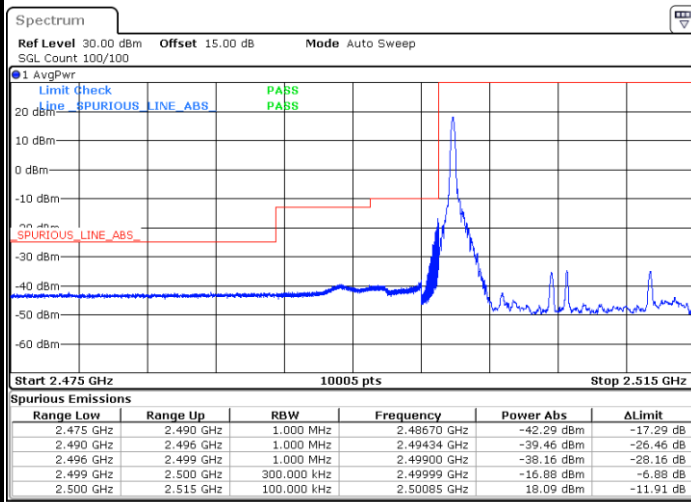
Highest Band Edge / Full RB



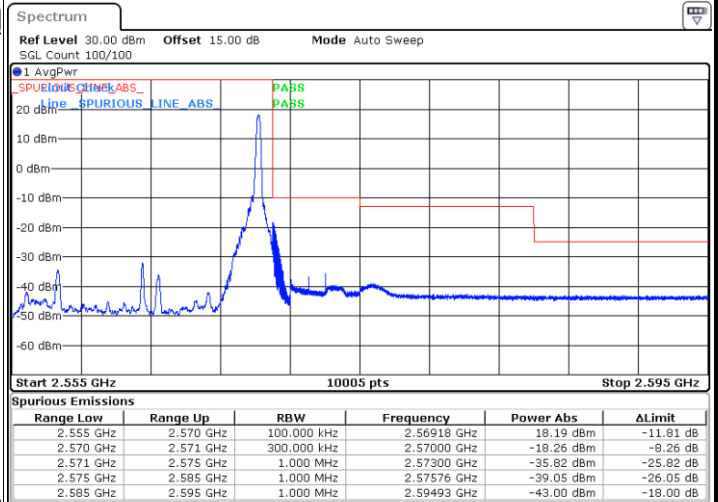


LTE Band 7 / 15MHz / QPSK

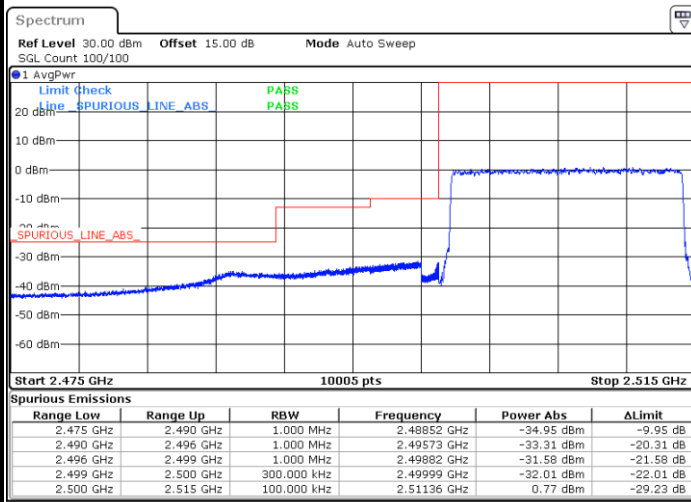
Lowest Band Edge / 1 RB



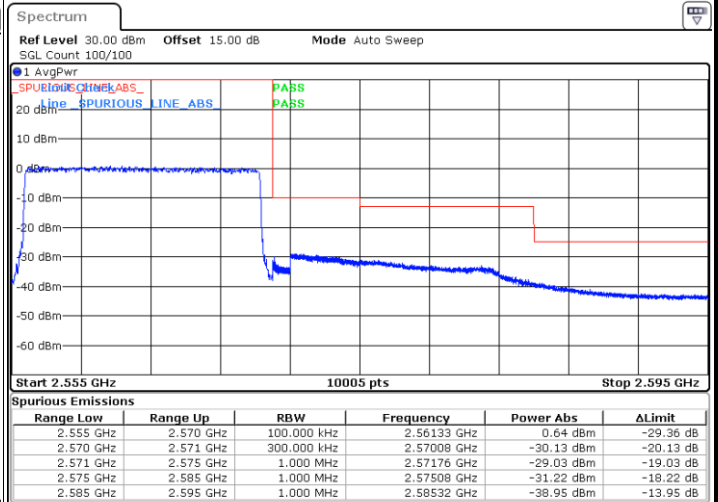
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



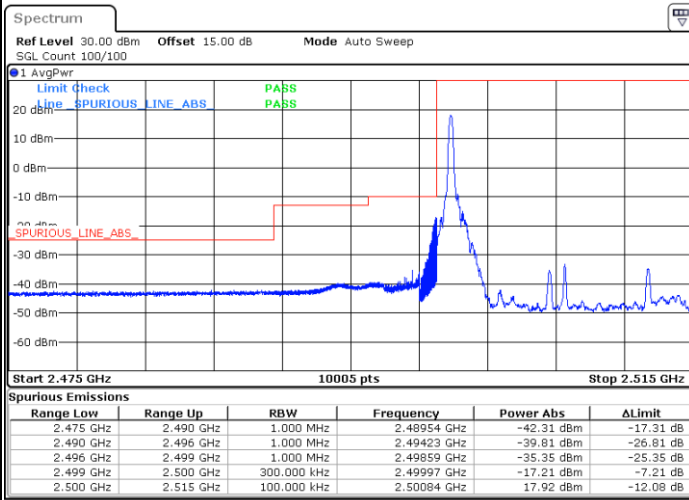
Highest Band Edge / Full RB



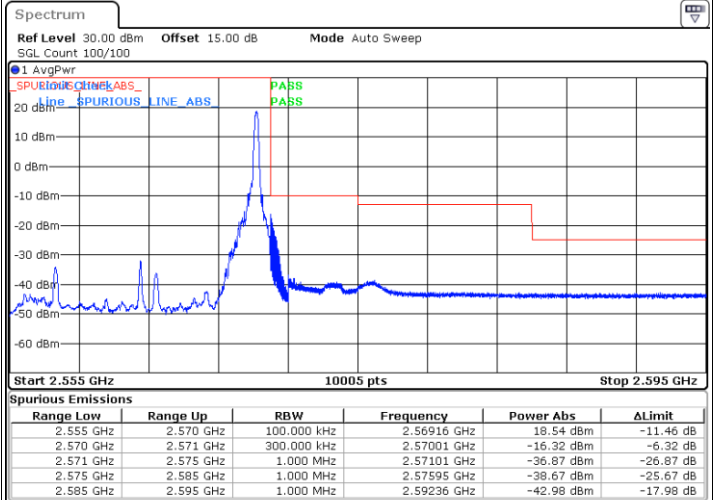


LTE Band 7 / 15MHz / 16QAM

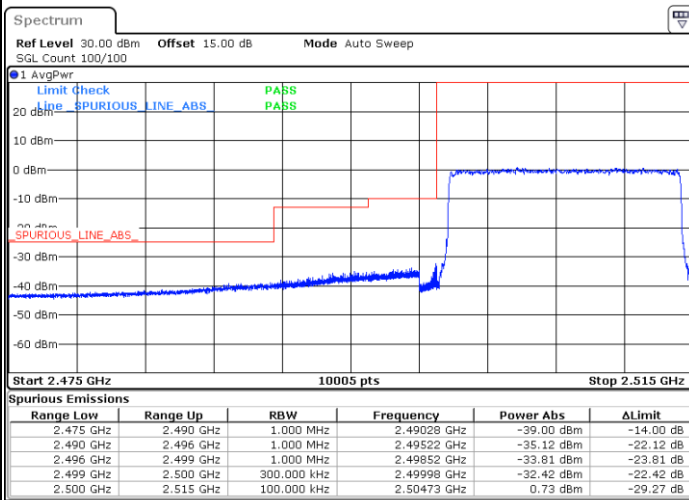
Lowest Band Edge / 1RB



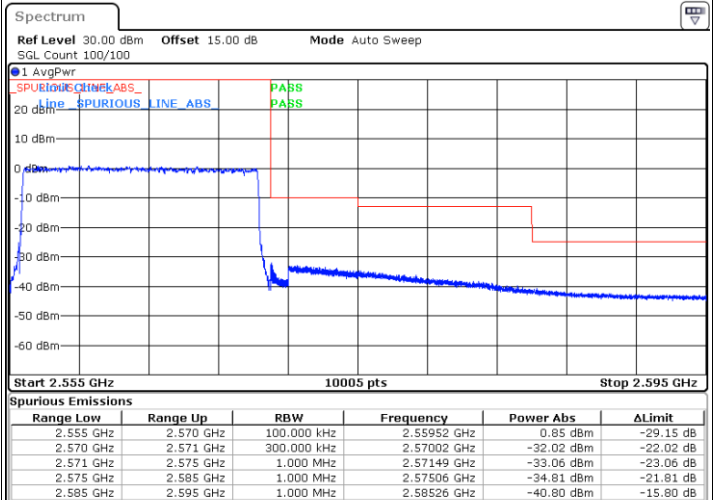
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



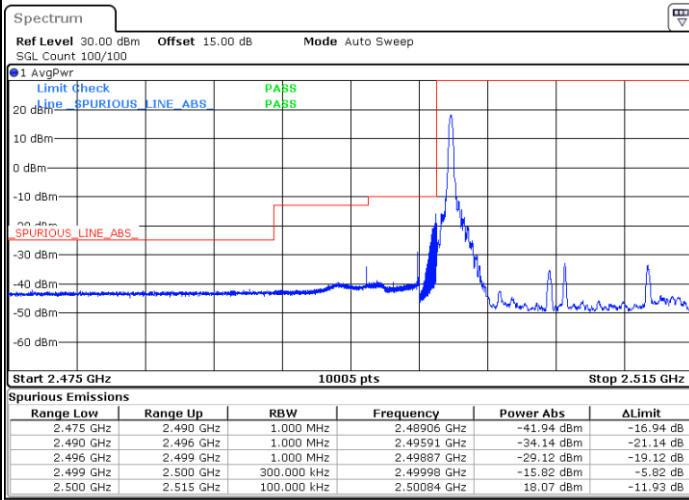
Highest Band Edge / Full RB



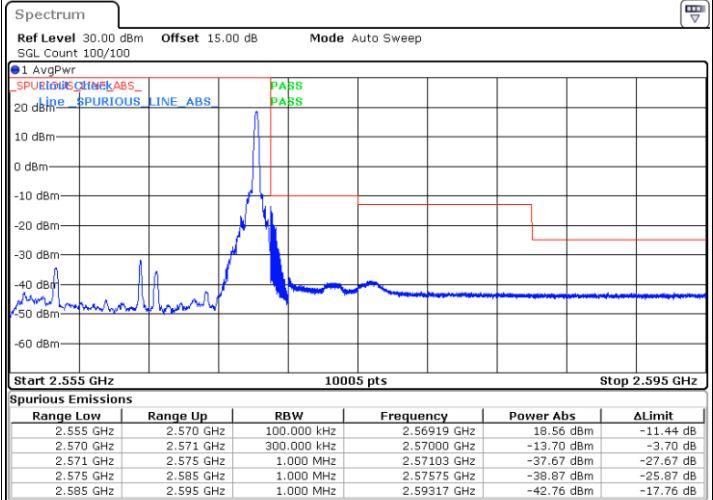


LTE Band 7 / 15MHz / 64QAM

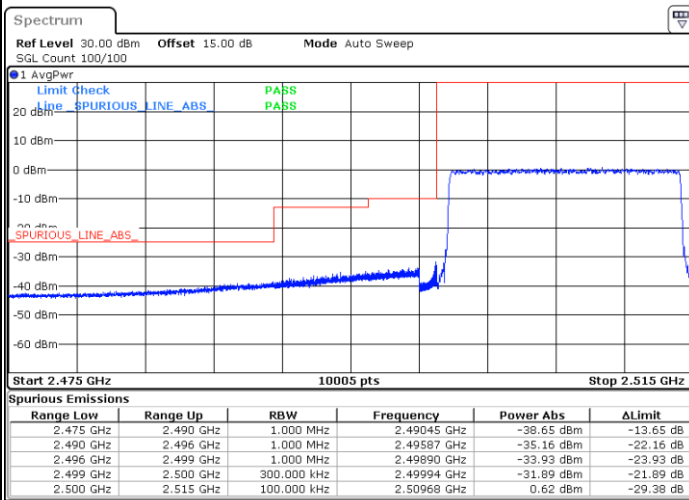
Lowest Band Edge / 1RB



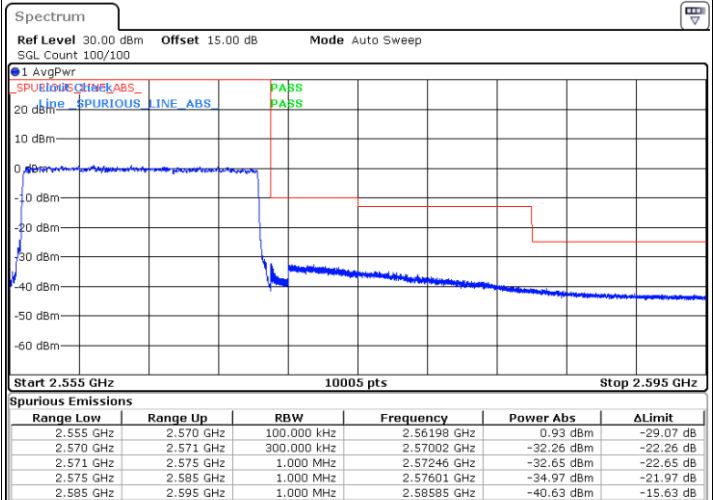
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



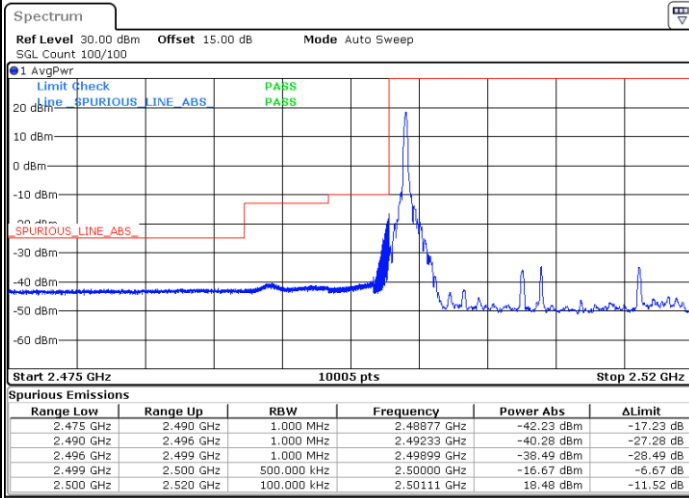
Highest Band Edge / Full RB



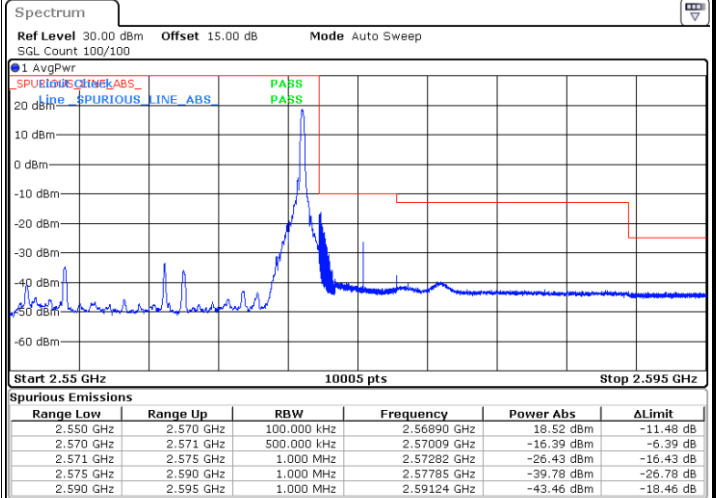


LTE Band 7 / 20MHz / QPSK

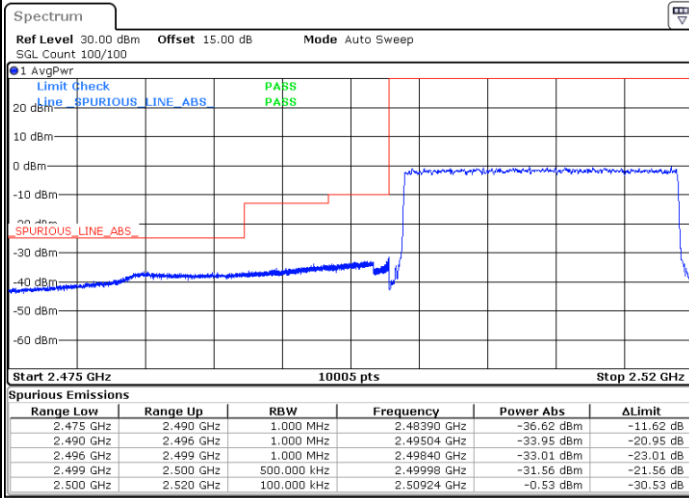
Lowest Band Edge / 1 RB



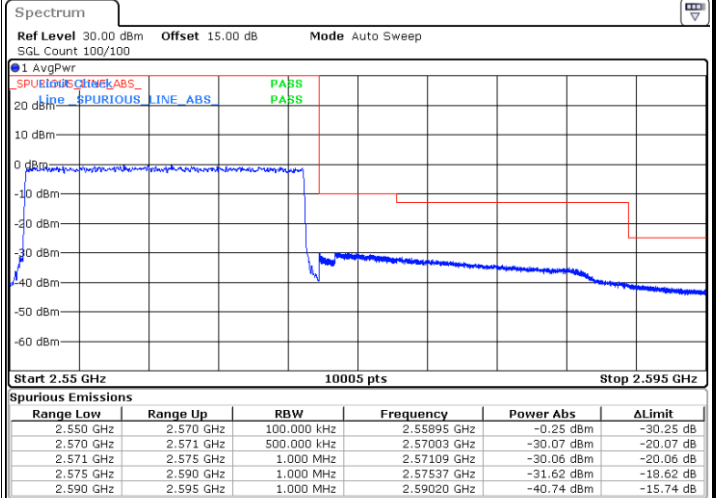
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



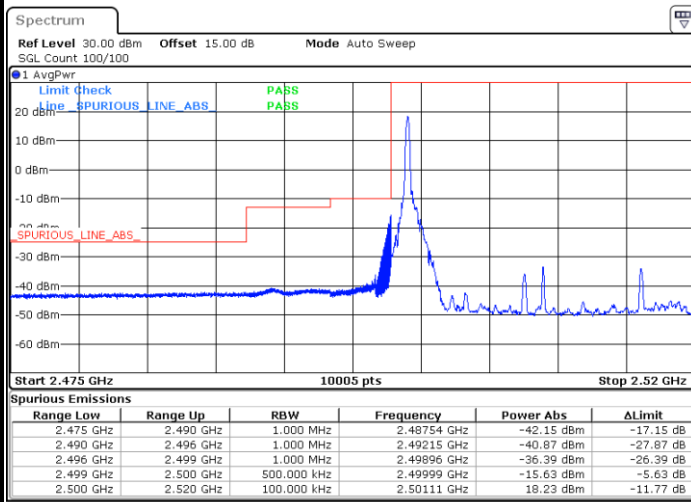
Highest Band Edge / Full RB



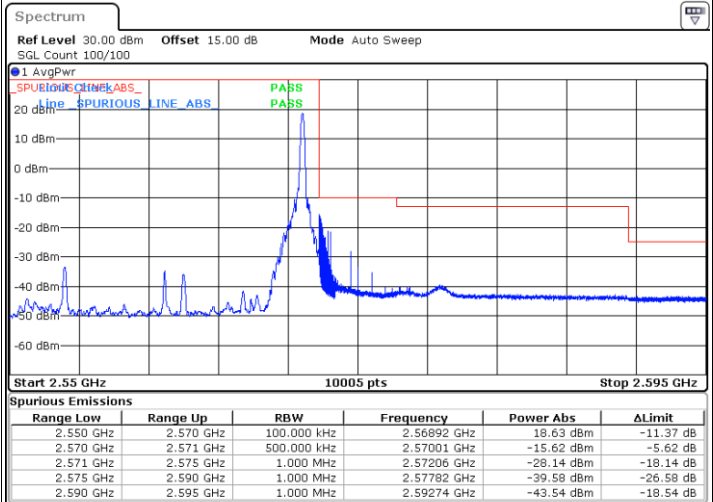


LTE Band 7 / 20MHz / 16QAM

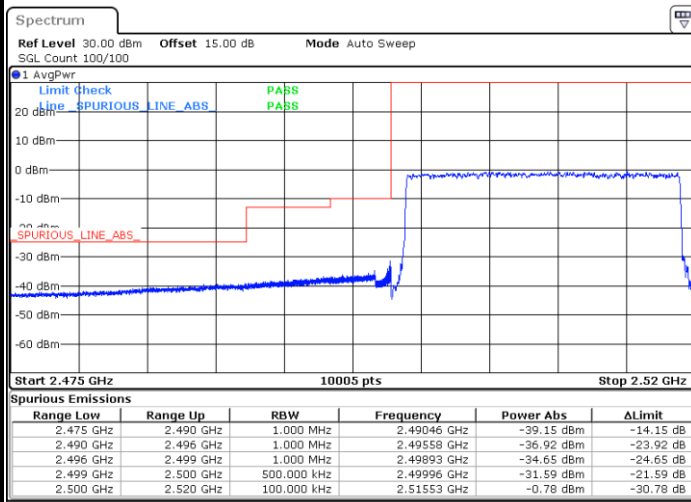
Lowest Band Edge / 1RB



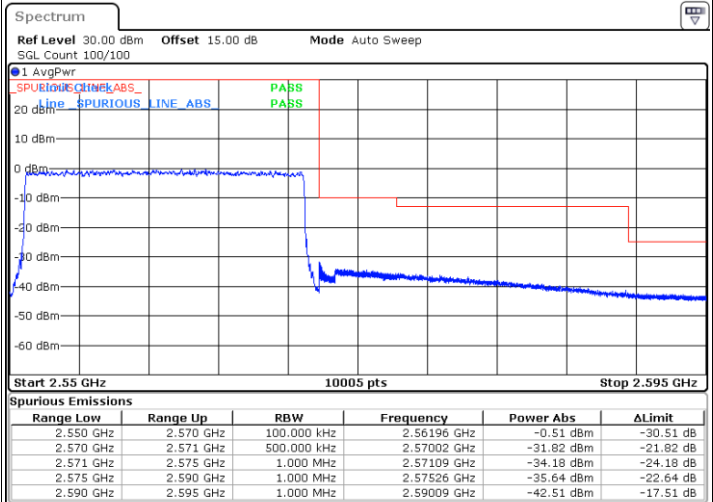
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



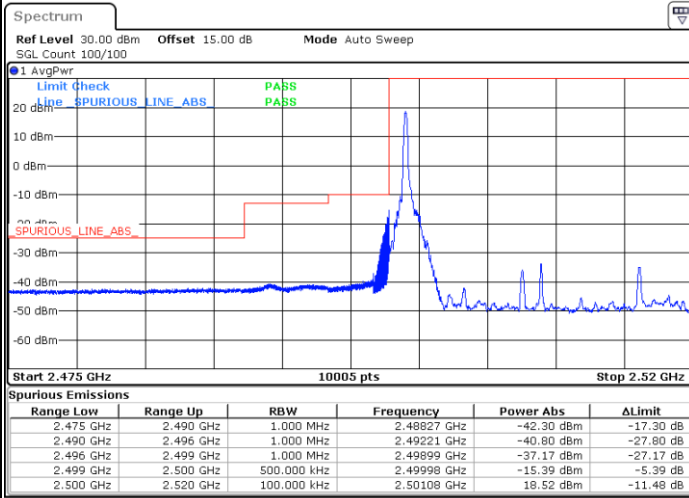
Highest Band Edge / Full RB



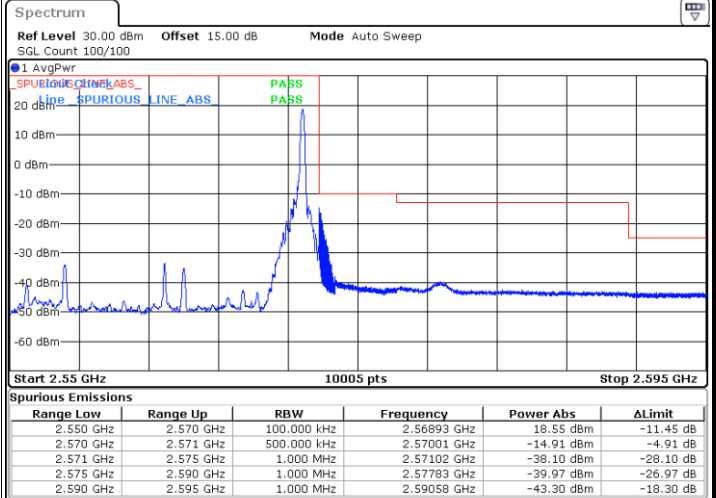


LTE Band 7 / 20MHz / 64QAM

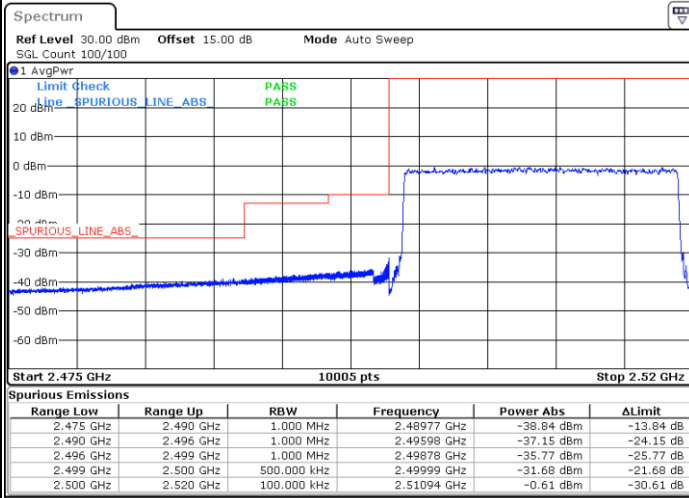
Lowest Band Edge / 1RB



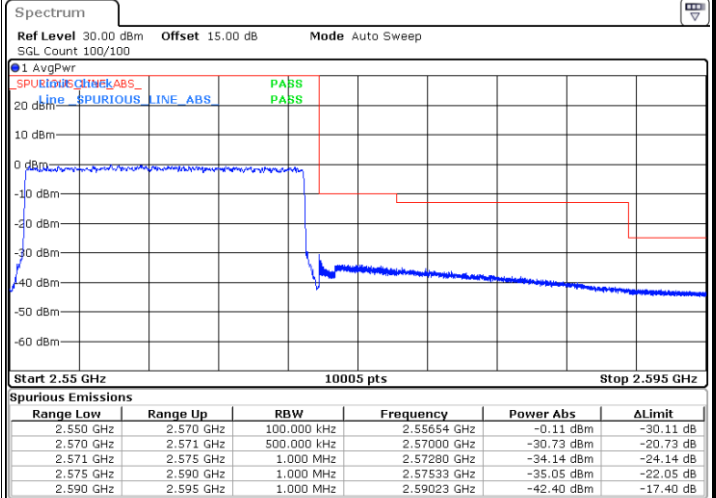
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

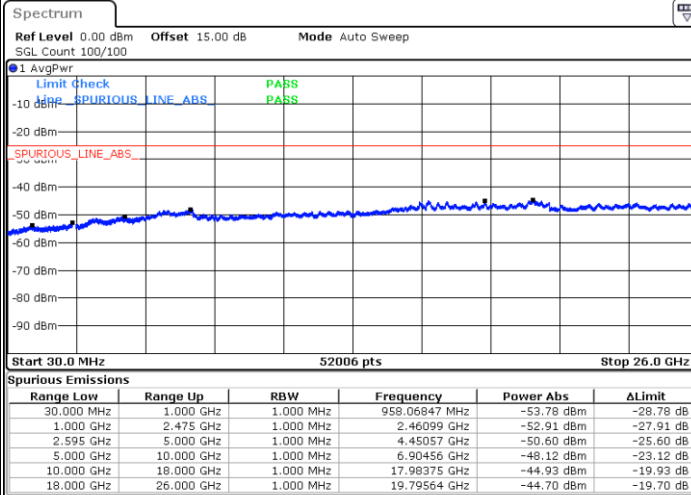




Conducted Spurious Emission

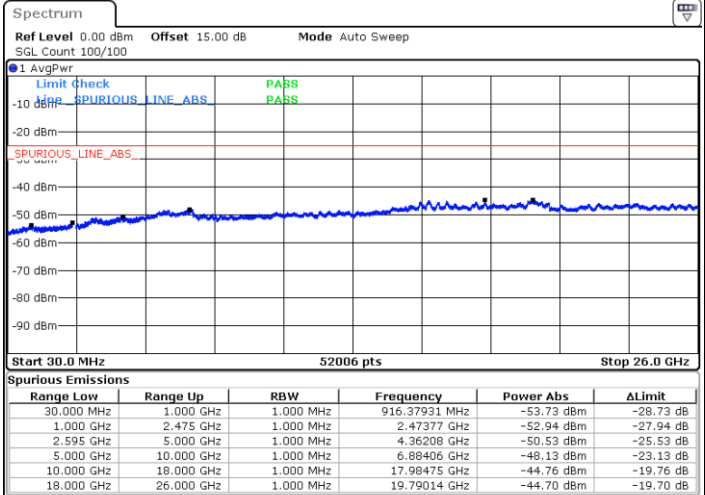
LTE Band 7 / 5MHz

Lowest Channel / QPSK



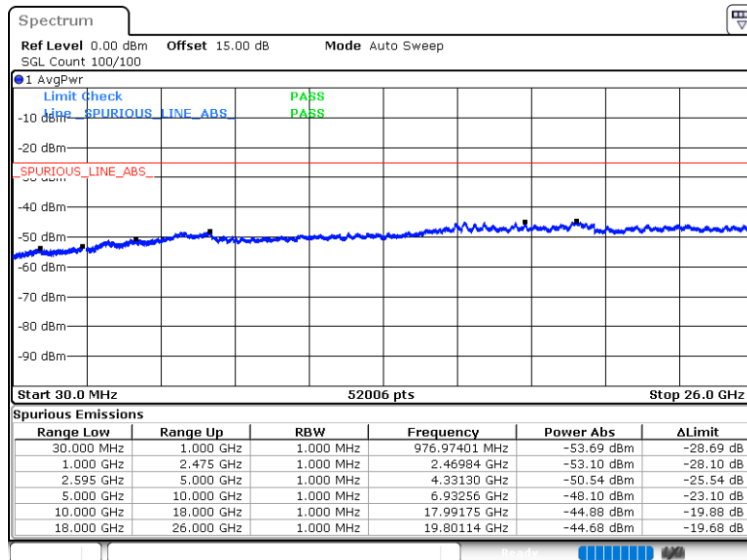
Date: 3.JAN.2024 19:45:55

Middle Channel / QPSK



Date: 3.JAN.2024 19:47:05

Highest Channel / QPSK

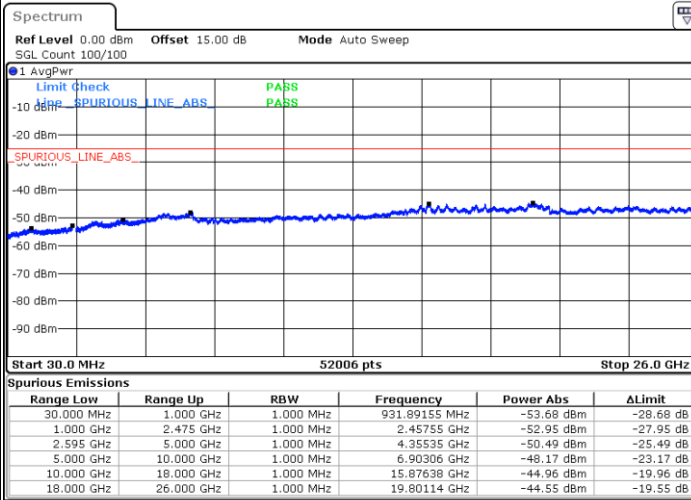


Date: 3.JAN.2024 19:55:19



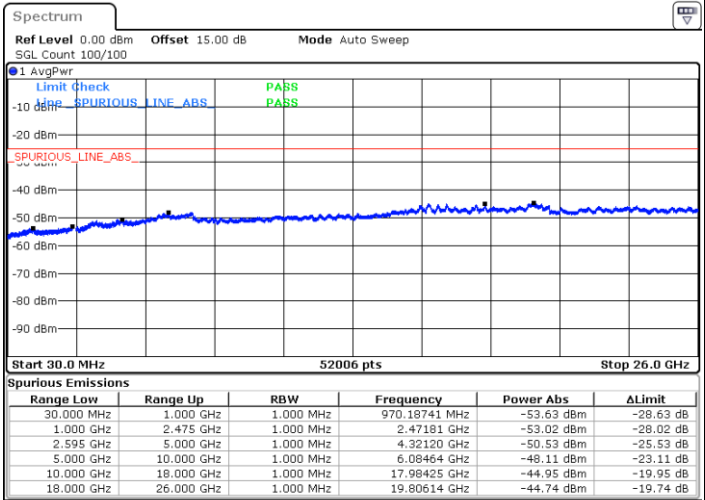
LTE Band 7 / 10MHz

Lowest Channel / QPSK



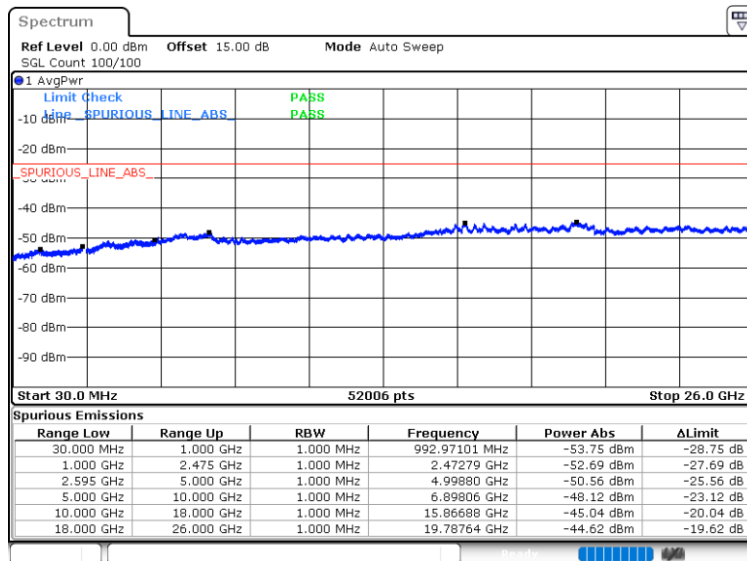
Date: 3.JAN.2024 20:03:00

Middle Channel / QPSK



Date: 3.JAN.2024 20:04:10

Highest Channel / QPSK

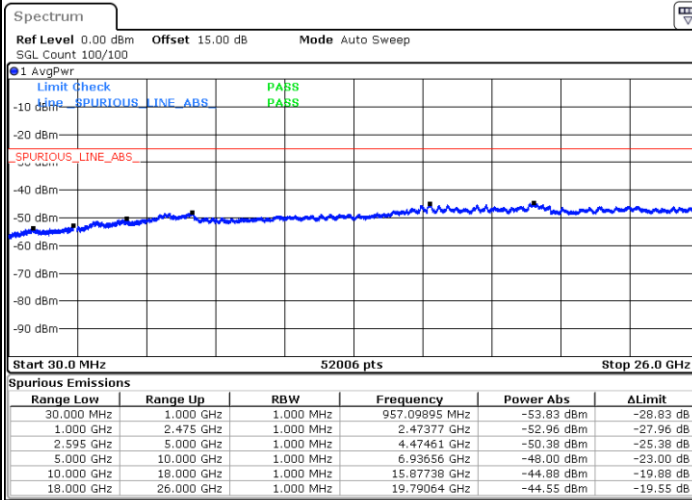


Date: 3.JAN.2024 20:12:22



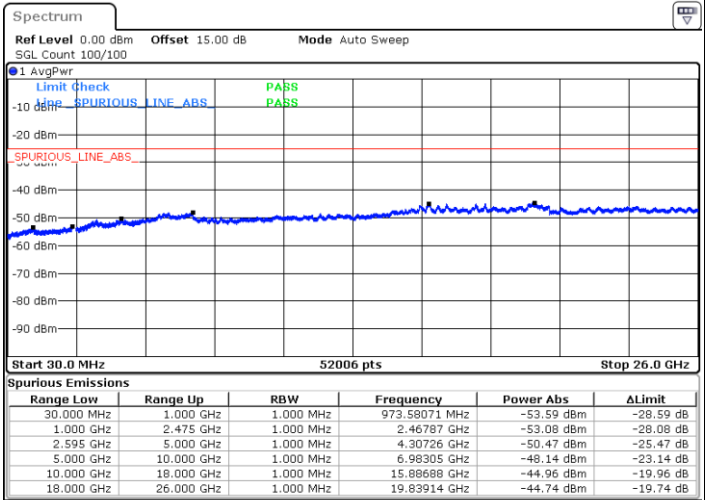
LTE Band 7 / 15MHz

Lowest Channel / QPSK



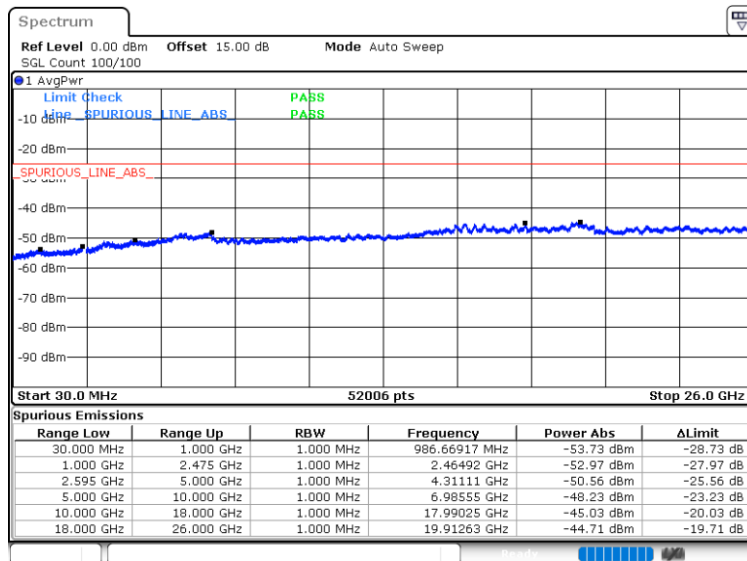
Date: 3.JAN.2024 20:20:06

Middle Channel / QPSK



Date: 3.JAN.2024 20:21:15

Highest Channel / QPSK



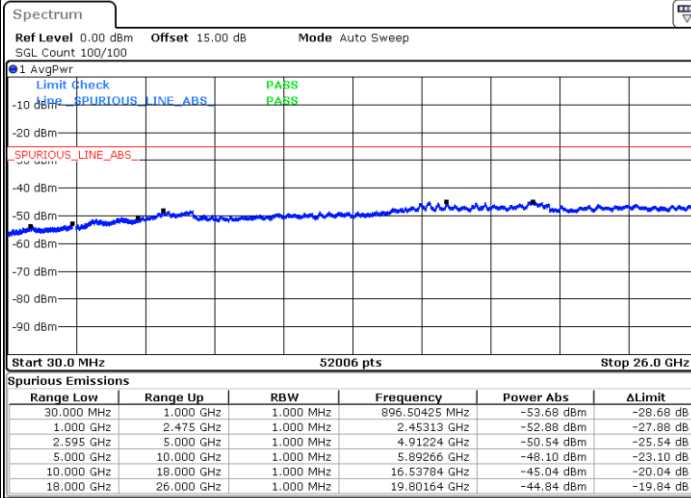
Date: 3.JAN.2024 20:29:30



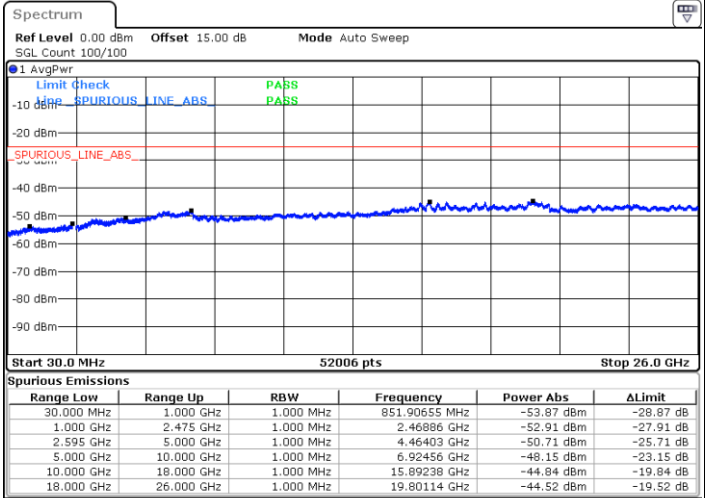
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

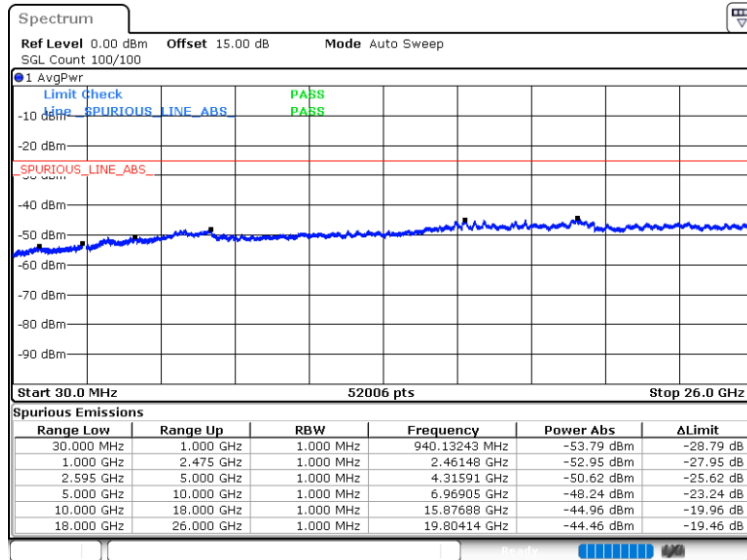


Date: 3.JAN.2024 20:37:12



Date: 3.JAN.2024 20:38:22

Highest Channel / QPSK



Date: 3.JAN.2024 20:47:59

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	2.0000	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

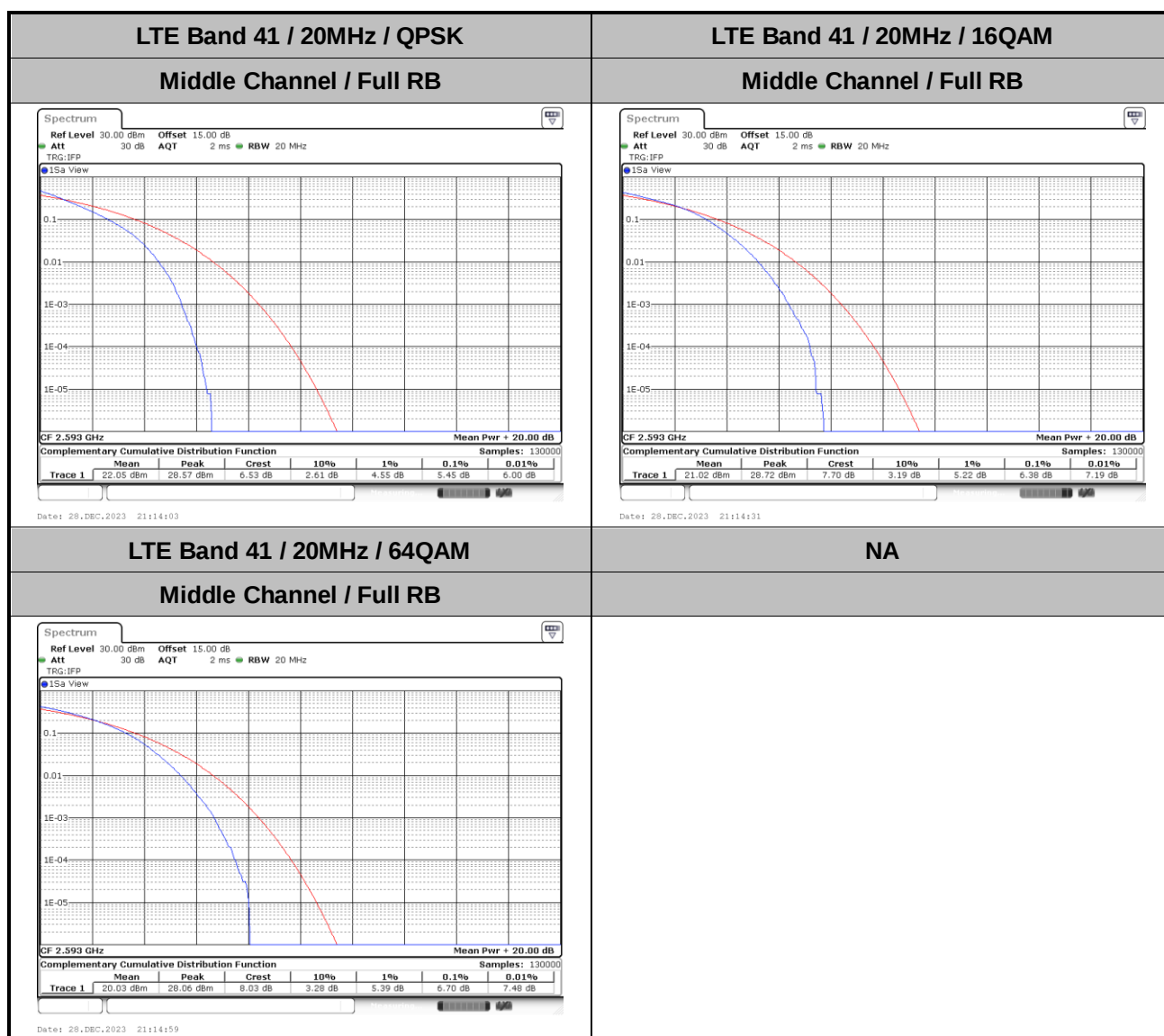
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41 (Main PA)

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.45	6.38	6.70	PASS



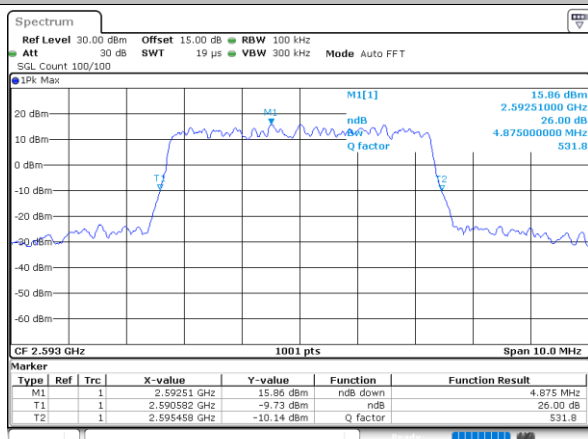


26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	-		-		5MHz		10MHz		15MHz		20MHz	
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.88	5.26	9.69	9.65	14.51	14.36	18.82	18.82

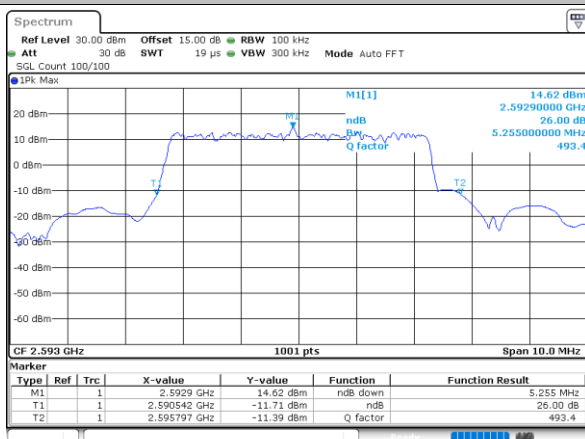
LTE Band 41

Middle Channel / 5MHz / QPSK



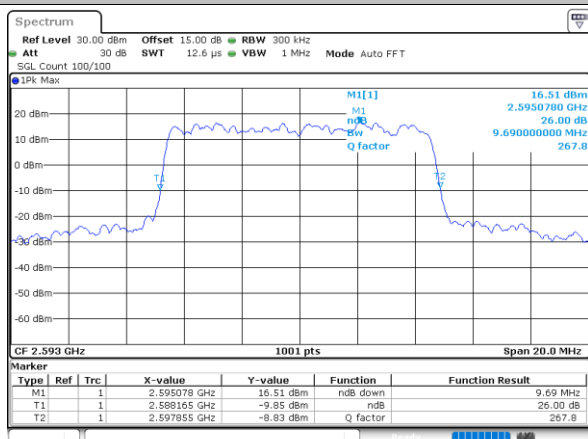
Date: 28.DEC.2023 01:47:00

Middle Channel / 5MHz / 16QAM



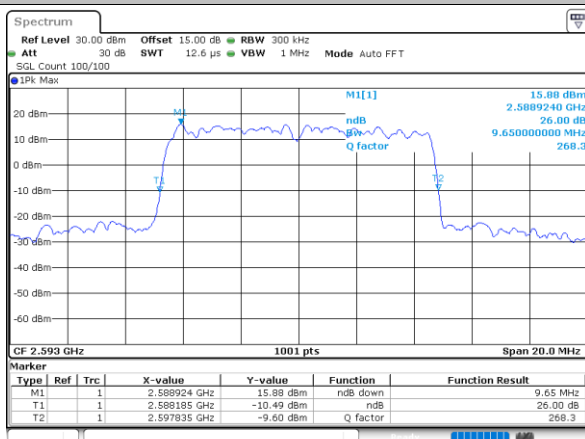
Date: 28.DEC.2023 01:47:40

Middle Channel / 10MHz / QPSK



Date: 28.DEC.2023 02:05:19

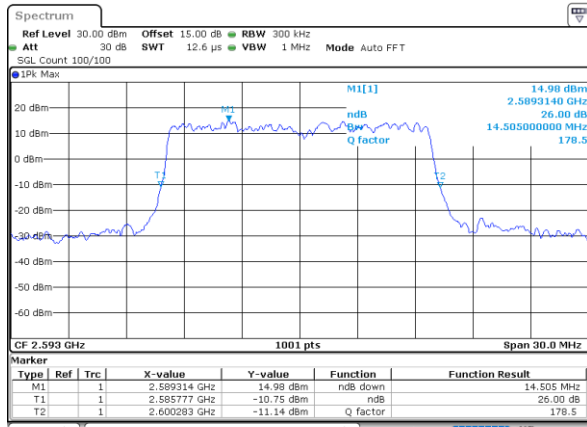
Middle Channel / 10MHz / 16QAM



Date: 28.DEC.2023 02:05:59

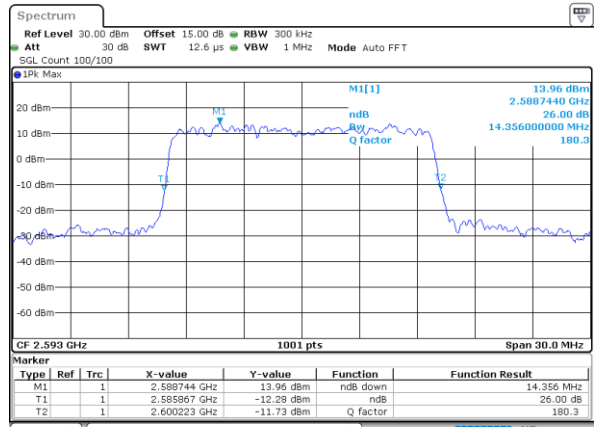


Middle Channel / 15MHz / QPSK



Date: 28.DEC.2023 20:53:44

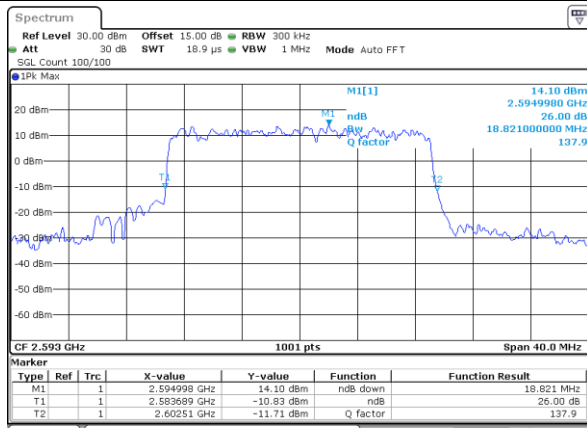
Middle Channel / 15MHz / 16QAM



Date: 28.DEC.2023 20:54:25

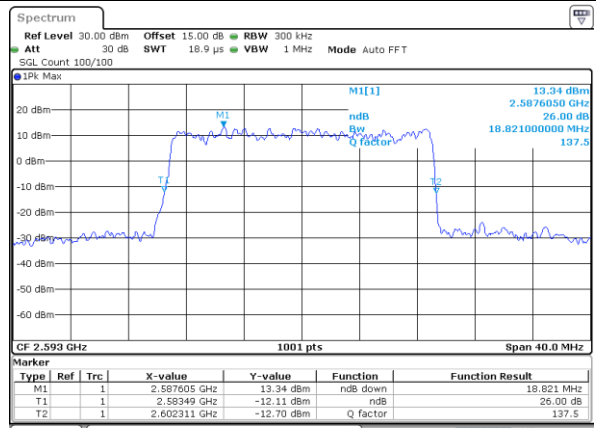
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 28.DEC.2023 21:12:56

Middle Channel / 20MHz / 16QAM



Date: 28.DEC.2023 21:13:36

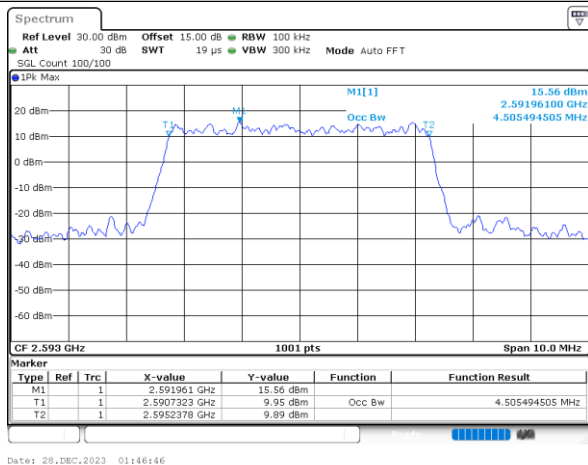


Occupied Bandwidth

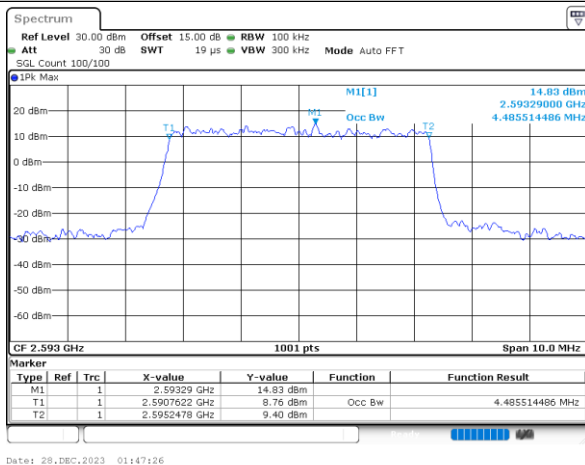
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	-			5MHz		10MHz		15MHz		20MHz		
Mod.	-	-	-	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.51	4.49	9.07	9.01	13.43	13.43	17.82	17.86

LTE Band 41

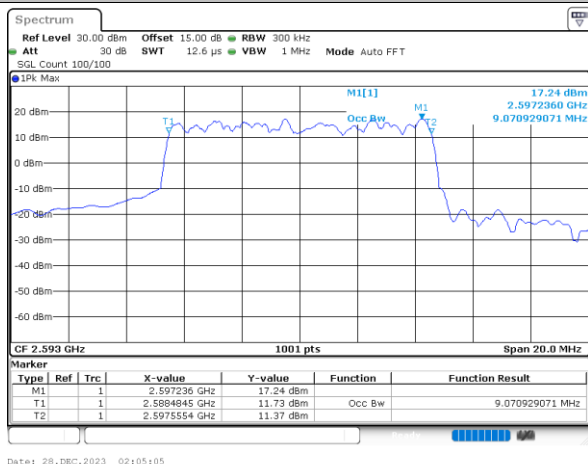
Middle Channel / 5MHz / QPSK



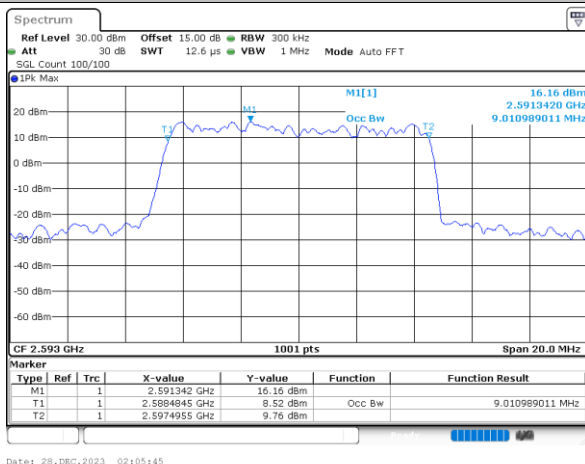
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK

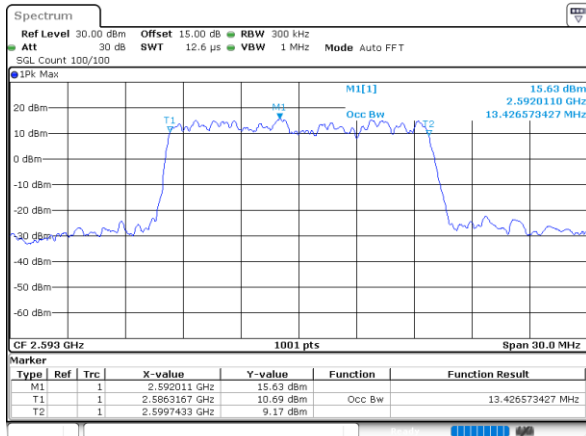


Middle Channel / 10MHz / 16QAM



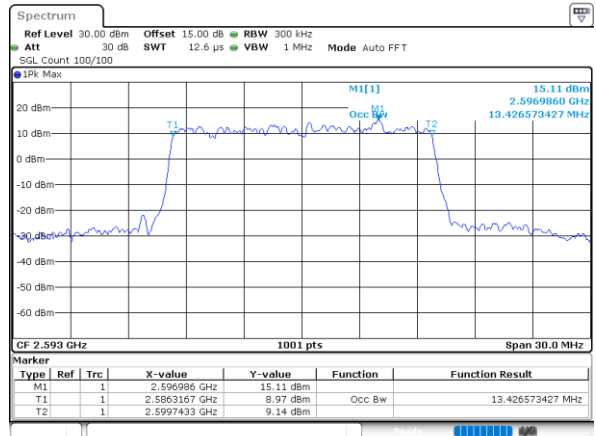


Middle Channel / 15MHz / QPSK



Date: 28.DEC.2023 20:53:30

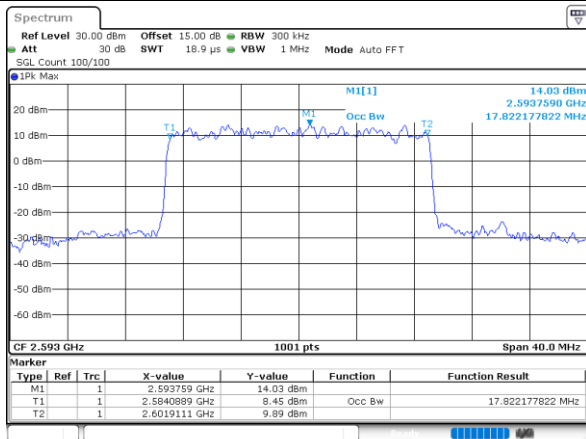
Middle Channel / 15MHz / 16QAM



Date: 28.DEC.2023 20:54:11

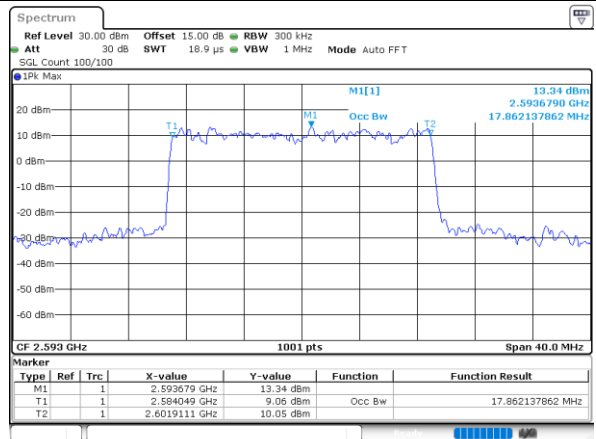
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 28.DEC.2023 21:12:41

Middle Channel / 20MHz / 16QAM



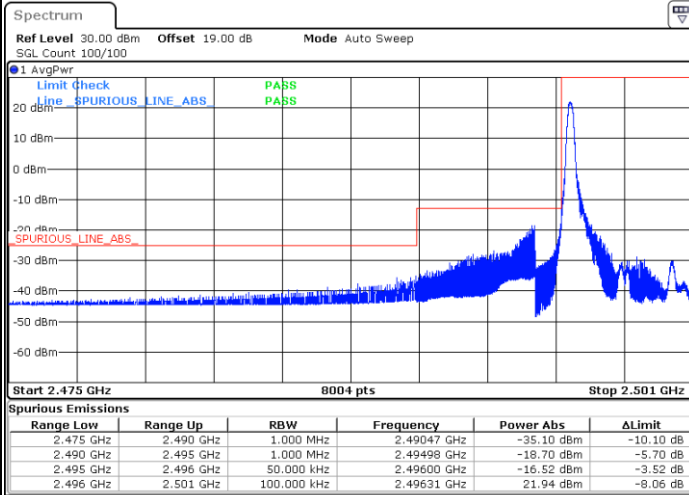
Date: 28.DEC.2023 21:13:22



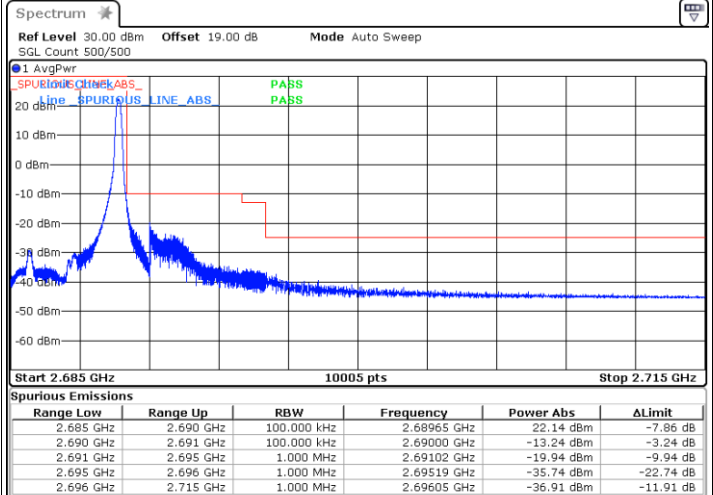
Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

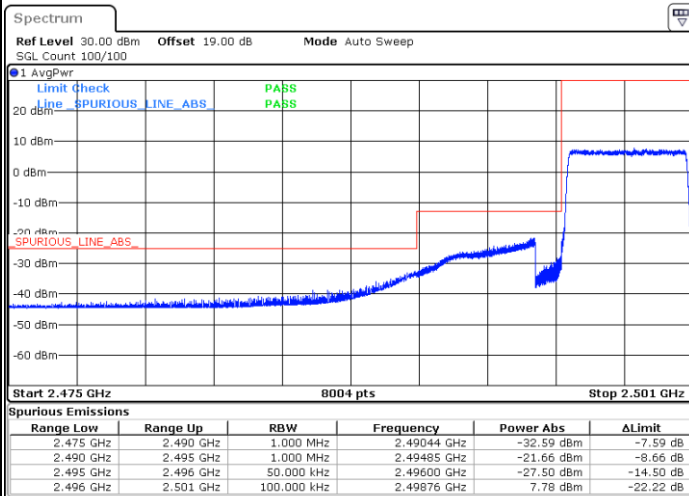
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

