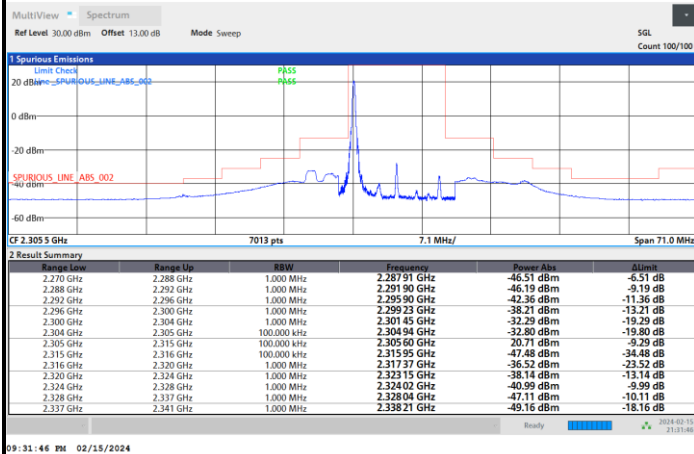


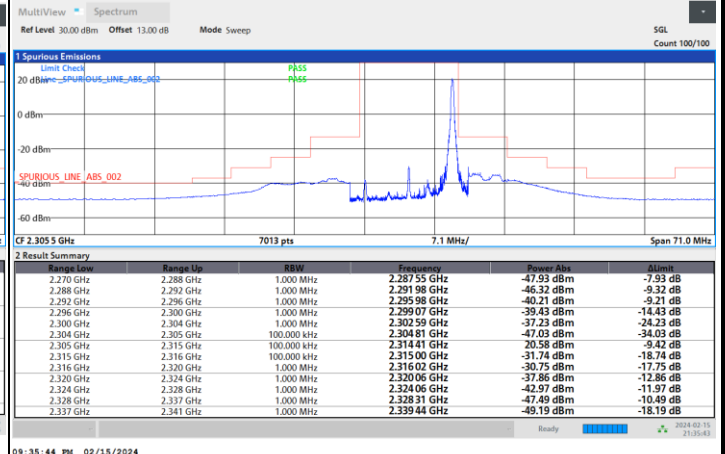


LTE Band 30 / 10MHz / QPSK

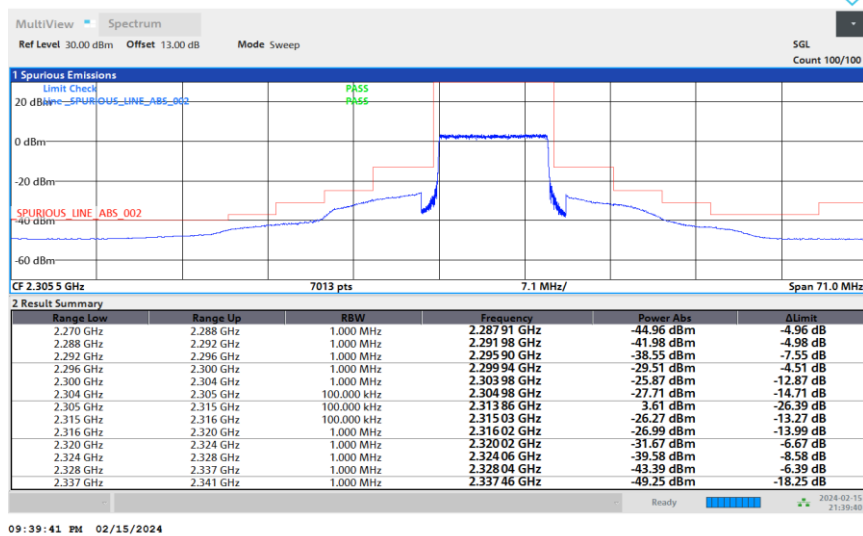
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



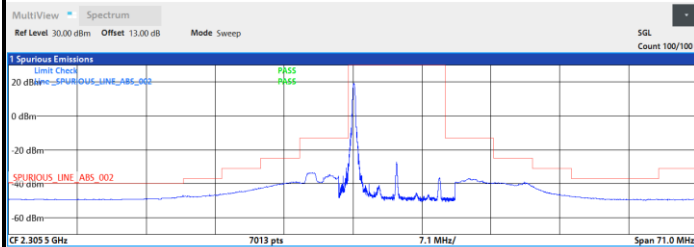
Band Edge / Full RB





LTE Band 30 / 10MHz / 16QAM

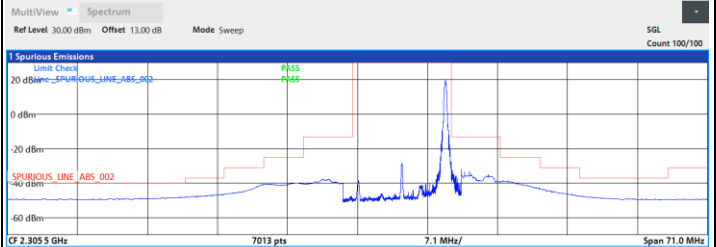
Lowest Band Edge / 1 RB



2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	Alimth
2.270 GHz	2.288 GHz	1.000 MHz	2.287 91 GHz	-47.08 dBm	-7.08 dB
2.288 GHz	2.292 GHz	1.000 MHz	2.291 78 GHz	-46.00 dBm	-9.00 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.295 14 GHz	-42.55 dBm	-11.55 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 58 GHz	-38.68 dBm	-13.68 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.301 05 GHz	-33.47 dBm	-20.47 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.304 59 GHz	-28.23 dBm	-15.23 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.305 60 GHz	19.38 dBm	-10.62 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 82 GHz	-47.62 dBm	-34.62 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.317 37 GHz	-36.95 dBm	-23.95 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.323 15 GHz	-39.04 dBm	-14.04 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 06 GHz	-41.66 dBm	-10.66 dB
2.328 GHz	2.337 GHz	1.000 MHz	2.328 04 GHz	-47.59 dBm	-10.59 dB
2.337 GHz	2.341 GHz	1.000 MHz	2.337 61 GHz	-49.21 dBm	-18.21 dB

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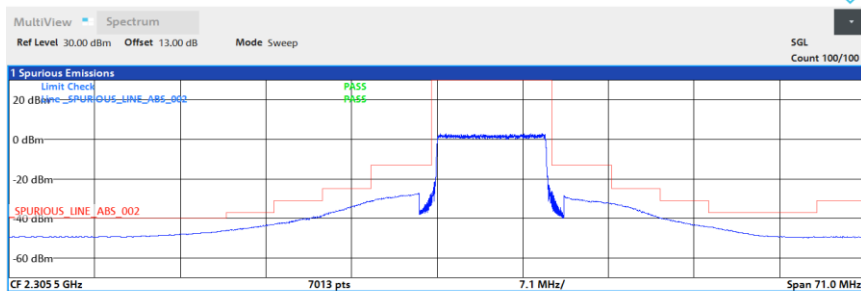
Highest Band Edge / 1 RB



2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	Alimth
2.270 GHz	2.288 GHz	1.000 MHz	2.287 38 GHz	-48.26 dBm	-8.26 dB
2.288 GHz	2.292 GHz	1.000 MHz	2.291 94 GHz	-46.54 dBm	-9.54 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.295 86 GHz	-40.86 dBm	-9.86 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 19 GHz	-39.90 dBm	-14.90 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.301 96 GHz	-37.56 dBm	-24.56 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.304 79 GHz	-47.54 dBm	-34.54 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.314 39 GHz	19.75 dBm	-10.25 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 01 GHz	-29.98 dBm	-16.98 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.316 02 GHz	-32.07 dBm	-19.07 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.320 34 GHz	-38.47 dBm	-13.47 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 02 GHz	-43.42 dBm	-12.42 dB
2.328 GHz	2.337 GHz	1.000 MHz	2.328 31 GHz	-47.60 dBm	-10.60 dB
2.337 GHz	2.341 GHz	1.000 MHz	2.337 89 GHz	-49.19 dBm	-18.19 dB

09:36:43 PM 02/15/2024

Band Edge / Full RB



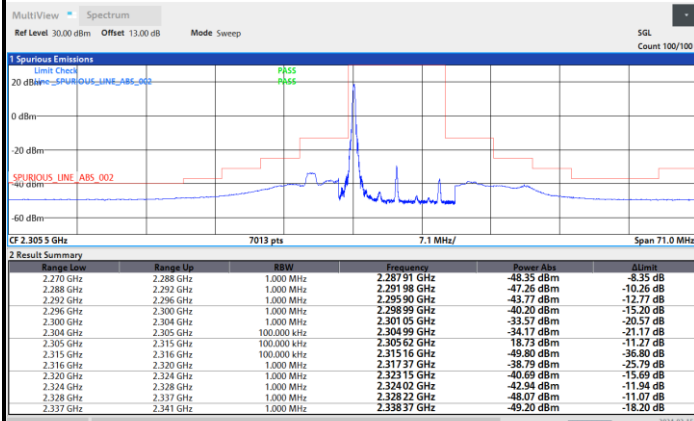
2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	Alimth
2.270 GHz	2.288 GHz	1.000 MHz	2.287 73 GHz	-46.30 dBm	-6.30 dB
2.288 GHz	2.292 GHz	1.000 MHz	2.291 98 GHz	-43.08 dBm	-6.08 dB
2.292 GHz	2.296 GHz	1.000 MHz	2.295 94 GHz	-38.67 dBm	-7.67 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 94 GHz	-31.23 dBm	-6.23 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.303 94 GHz	-27.19 dBm	-14.19 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.305 00 GHz	-27.79 dBm	-14.79 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.314 24 GHz	2.98 dBm	-27.02 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 01 GHz	-26.22 dBm	-13.22 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.316 02 GHz	-28.55 dBm	-15.55 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.320 10 GHz	-32.60 dBm	-7.60 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 10 GHz	-39.90 dBm	-8.90 dB
2.328 GHz	2.337 GHz	1.000 MHz	2.328 31 GHz	-44.38 dBm	-7.38 dB
2.337 GHz	2.341 GHz	1.000 MHz	2.339 24 GHz	-49.25 dBm	-18.25 dB

09:40:40 PM 02/15/2024

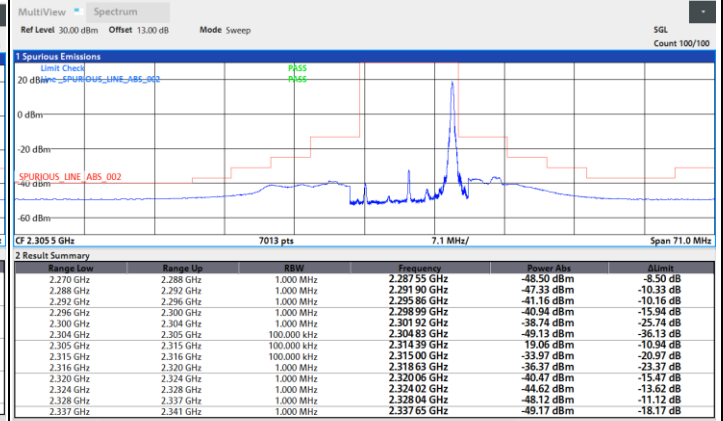


LTE Band 30 / 10MHz / 64QAM

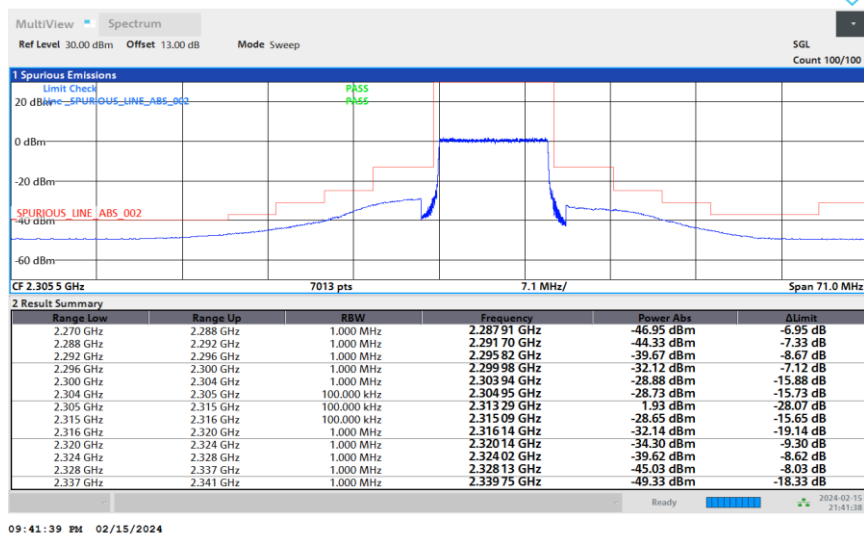
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



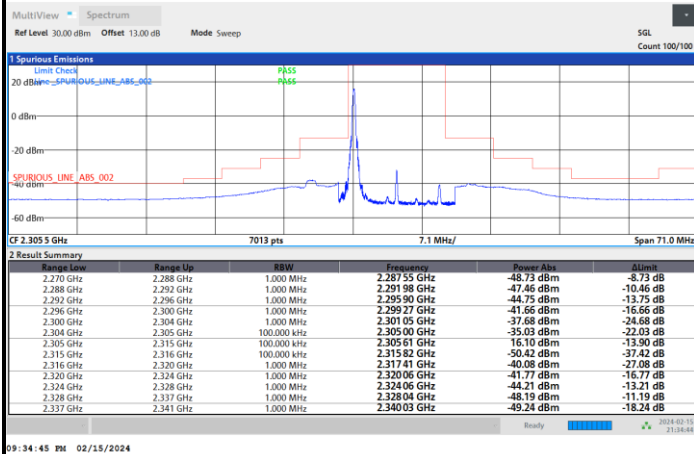
Band Edge / Full RB



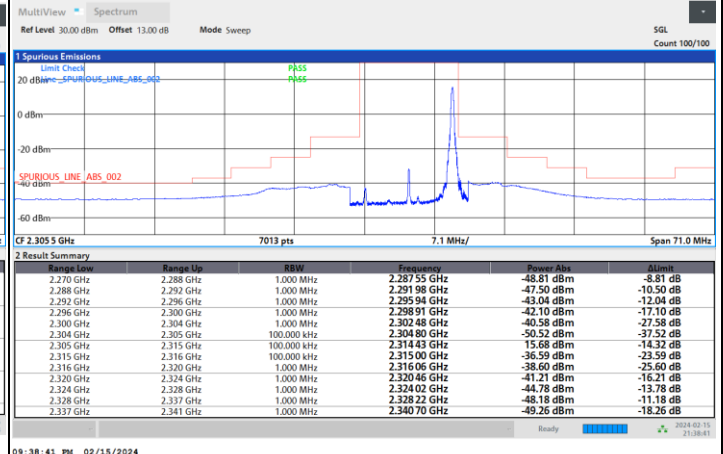


LTE Band 30 / 10MHz / 256QAM

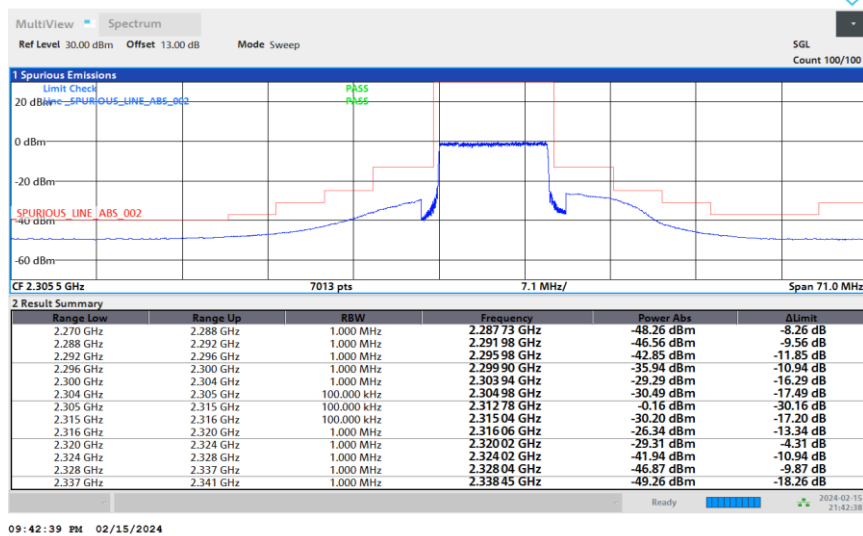
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

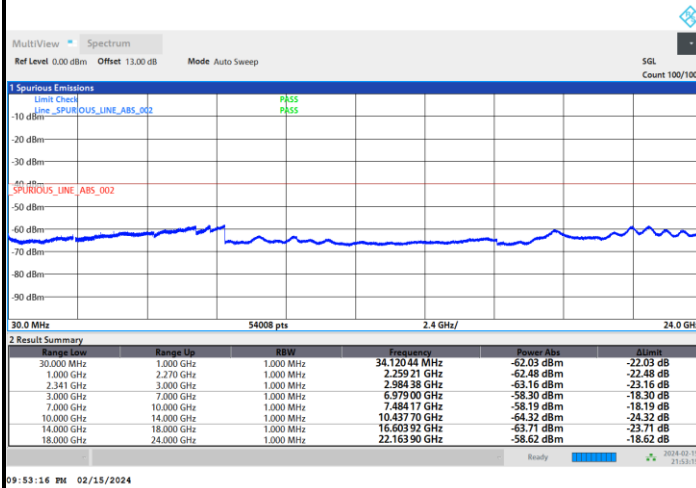




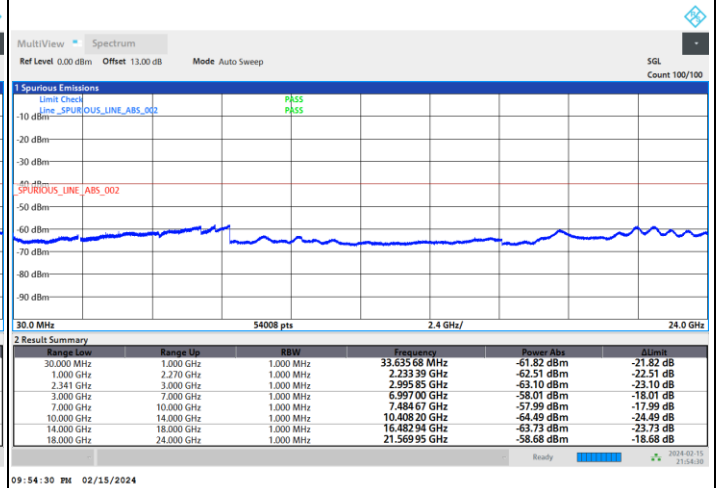
Conducted Spurious Emission

LTE Band 30 / 5MHz

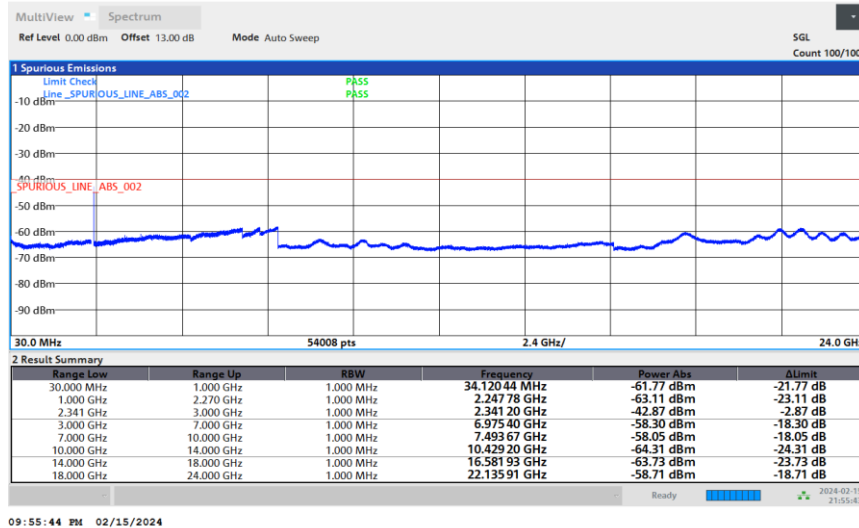
Lowest Channel / QPSK



Middle Channel / QPSK



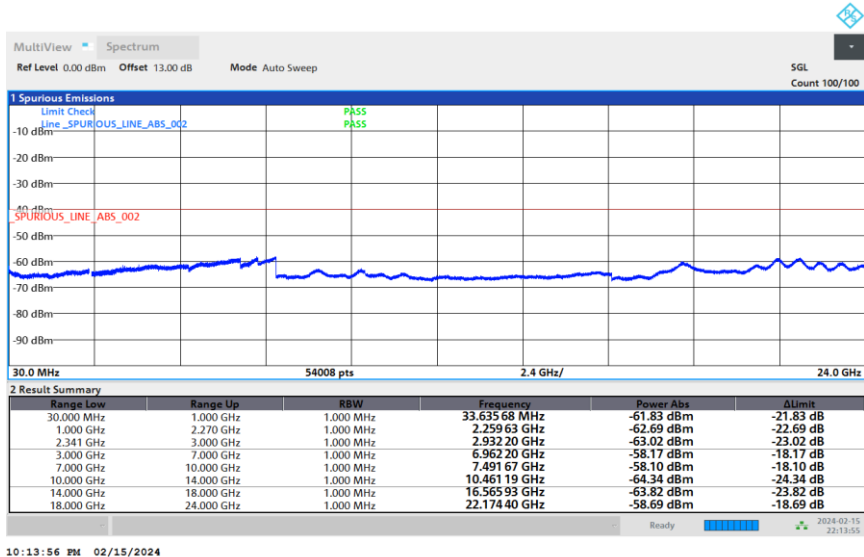
Highest Channel / QPSK





LTE Band 30 / 10MHz

Middle Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0061	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0071	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0057	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

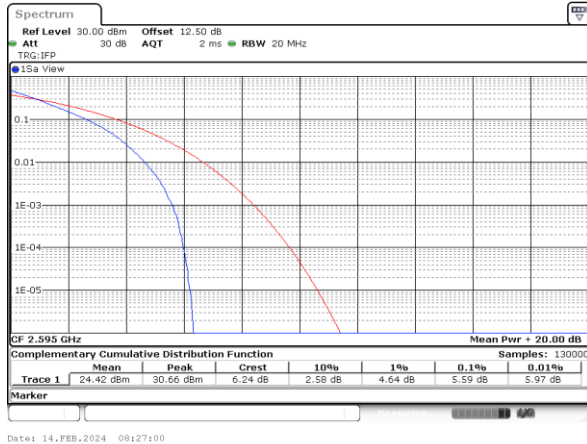
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**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	5.59	6.49	6.84	6.87	PASS

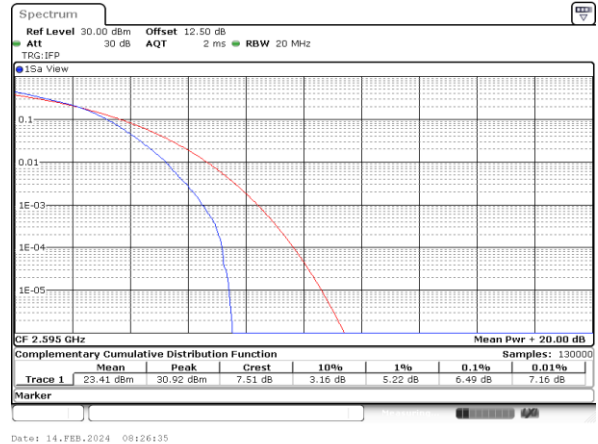
LTE Band 38 / 20MHz / QPSK

Middle Channel / Full RB



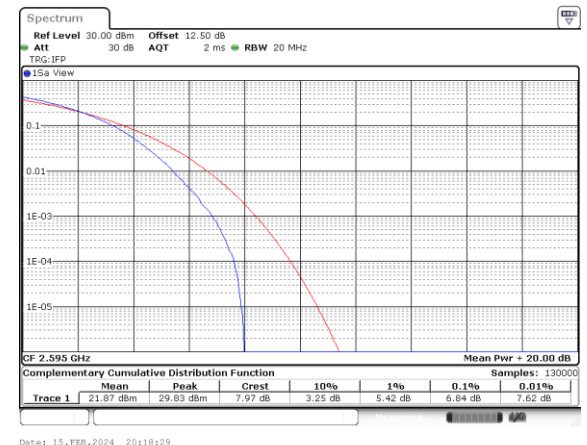
LTE Band 38 / 20MHz / 16QAM

Middle Channel / Full RB



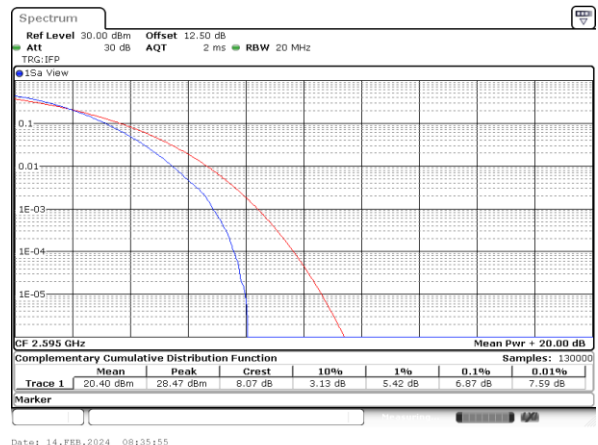
LTE Band 38 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 38 / 20MHz / 256QAM

Middle Channel / Full RB



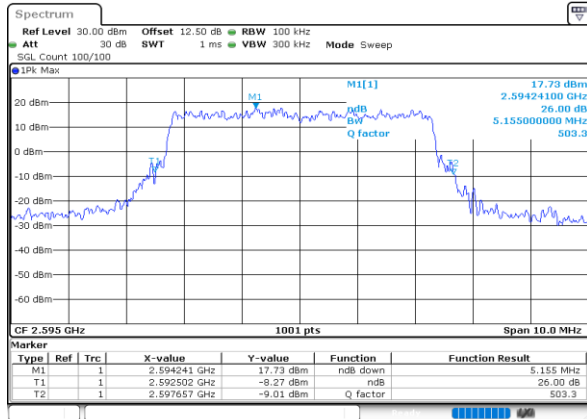
**26dB Bandwidth**

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	-	-	-	-	5.15	4.77	9.66	9.66	14.65	14.41	18.86	18.74
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	-	-	-	-	4.98	4.77	9.68	9.81	14.20	14.53	18.94	18.86

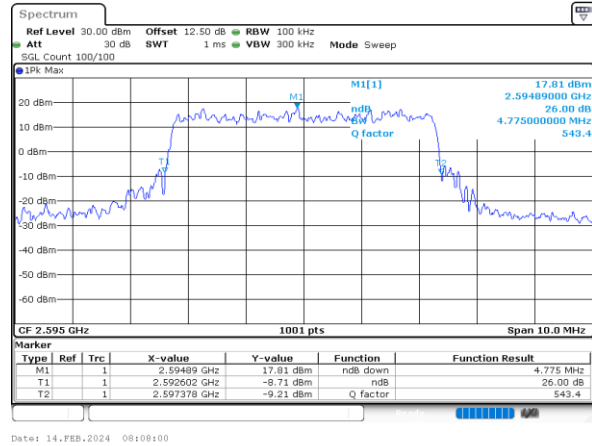


LTE Band 38

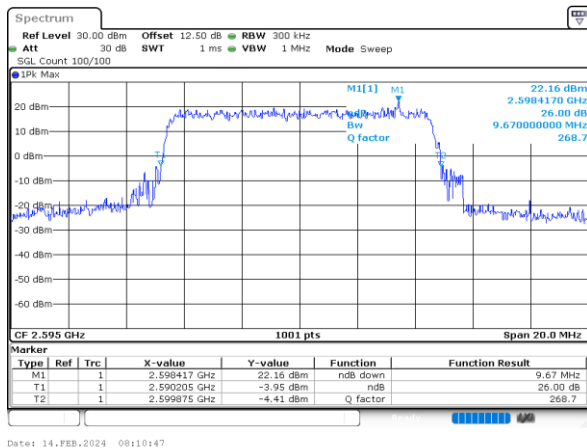
Middle Channel / 5MHz / QPSK



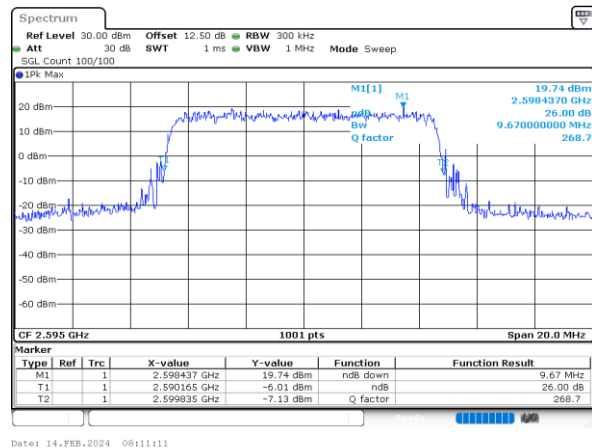
Middle Channel / 5MHz / 16QAM



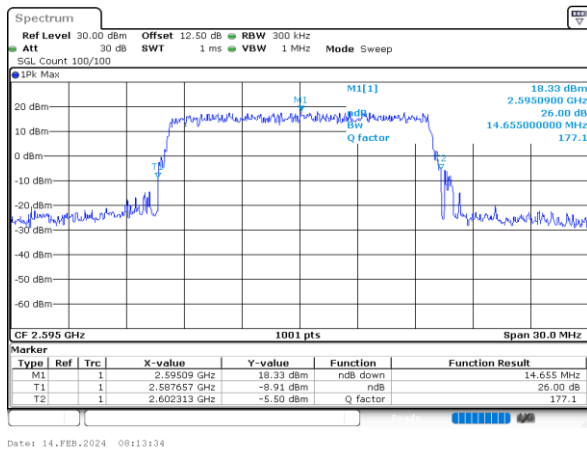
Middle Channel / 10MHz / QPSK



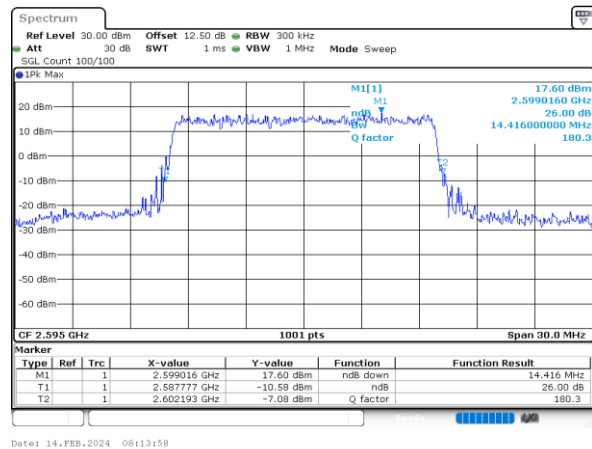
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



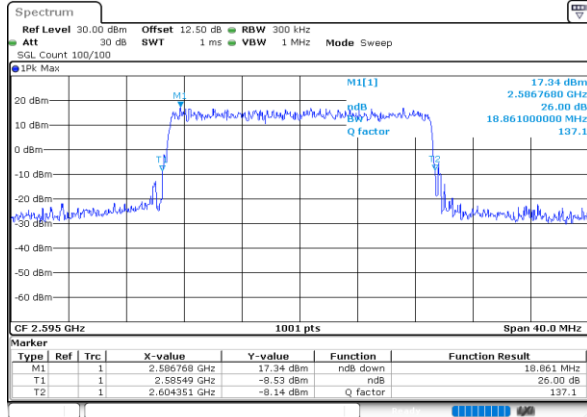
Middle Channel / 15MHz / 16QAM



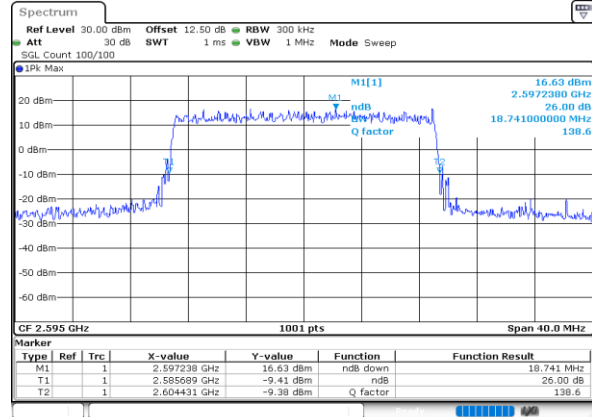


LTE Band 38

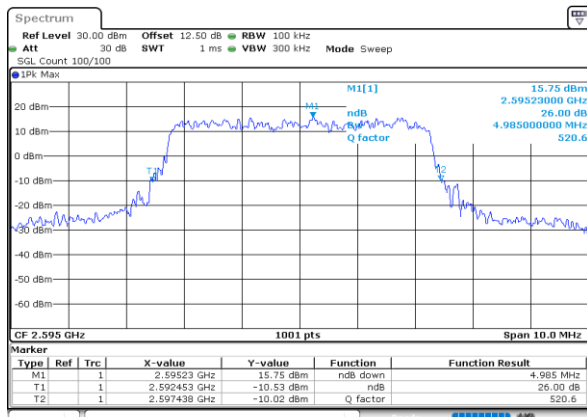
Middle Channel / 20MHz / QPSK



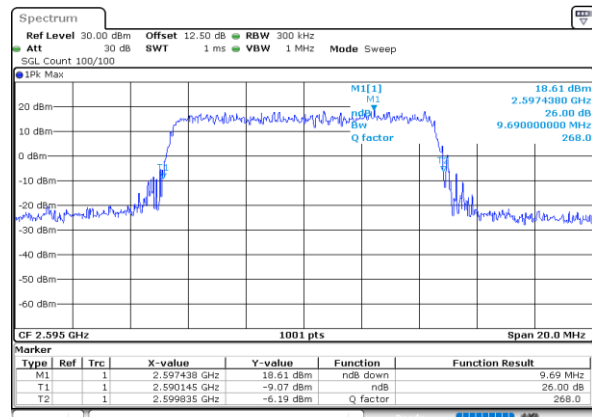
Middle Channel / 20MHz / 16QAM



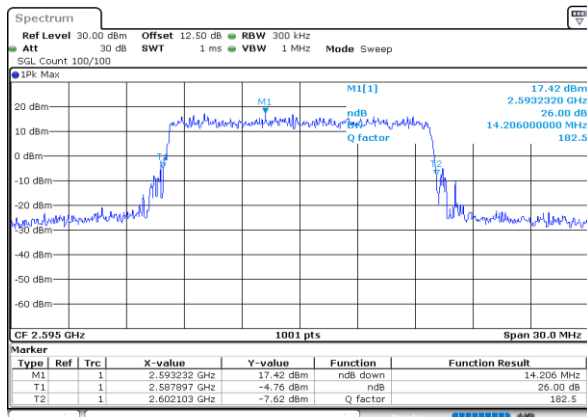
Middle Channel / 5MHz / 64QAM



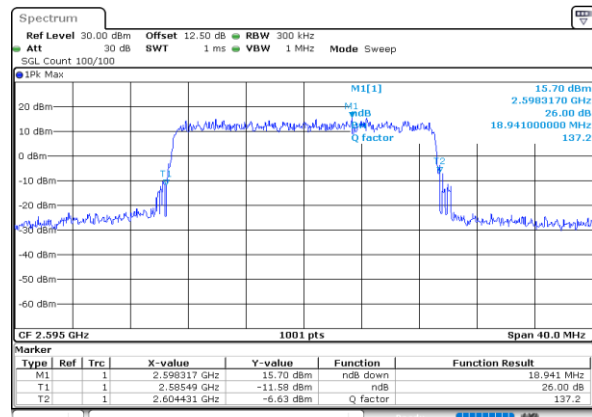
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



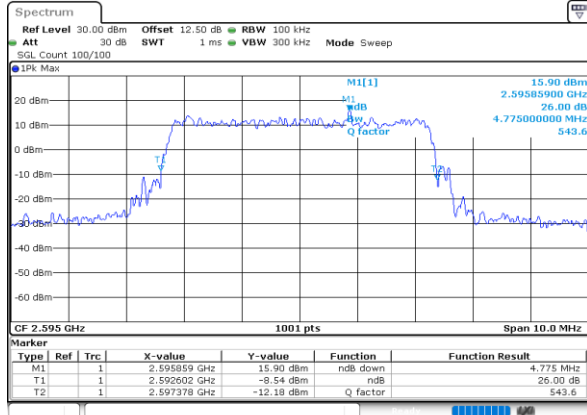
Middle Channel / 20MHz / 64QAM



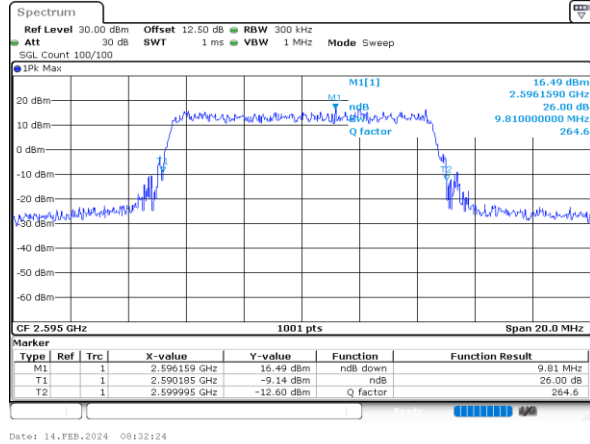


LTE Band 38

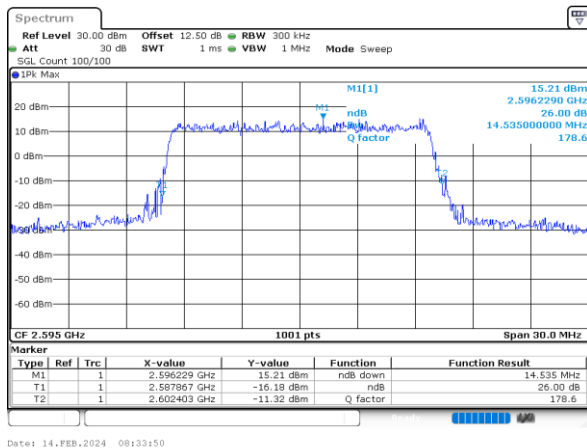
Middle Channel / 5MHz / 256QAM



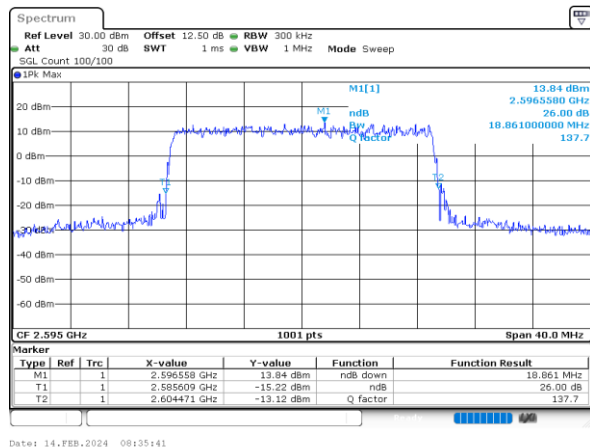
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM



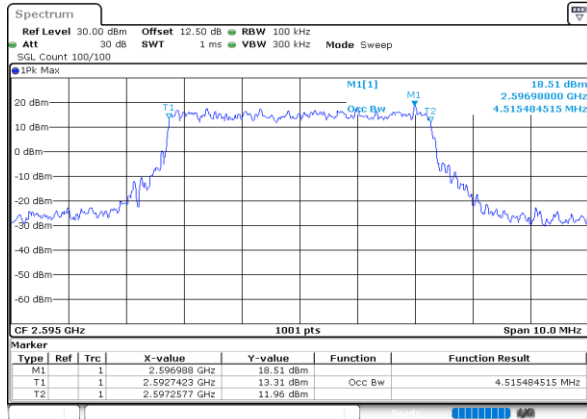
**Occupied Bandwidth**

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	-	-	-	-	4.51	4.50	9.07	9.05	13.48	13.42	17.82	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	-	-	-	-	4.50	4.48	9.03	9.09	13.42	13.45	17.86	17.90

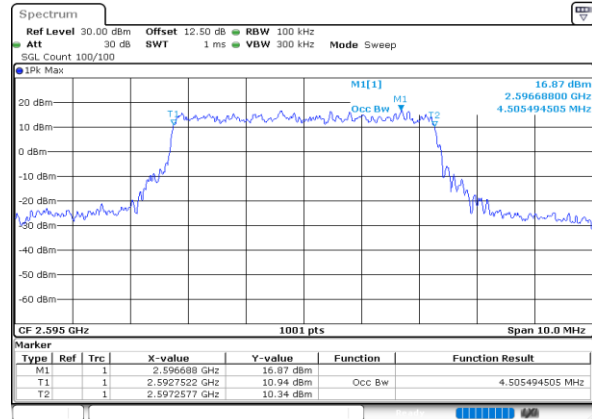


LTE Band 38

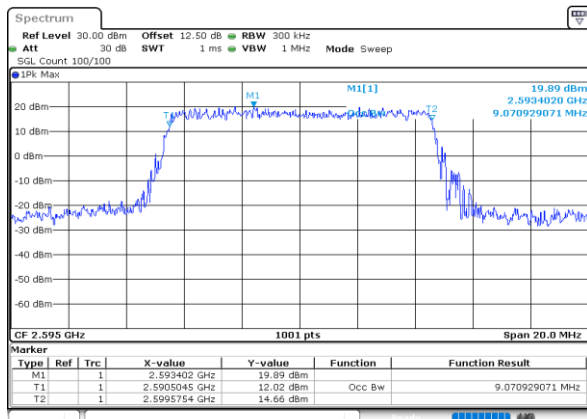
Middle Channel / 5MHz / QPSK



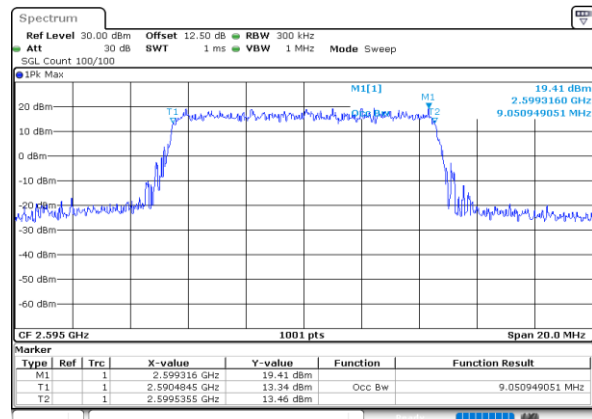
Middle Channel / 5MHz / 16QAM



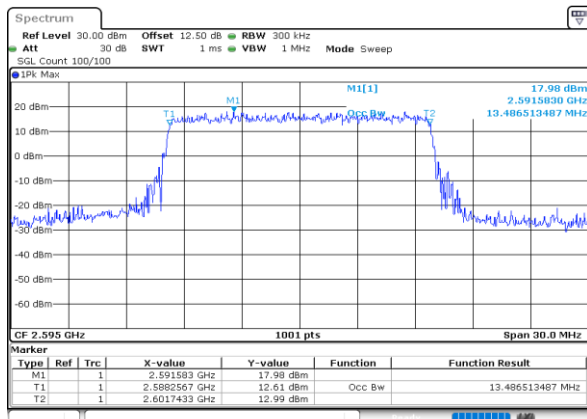
Middle Channel / 10MHz / QPSK



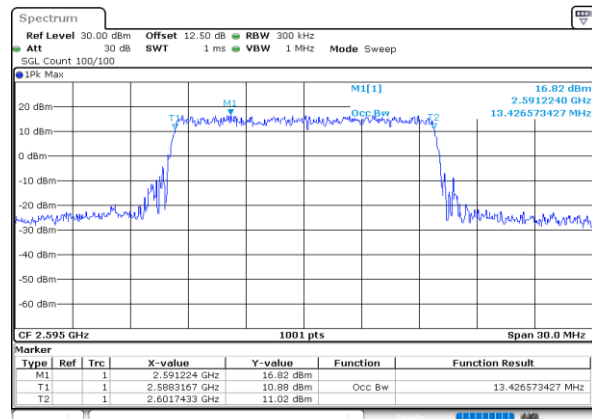
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



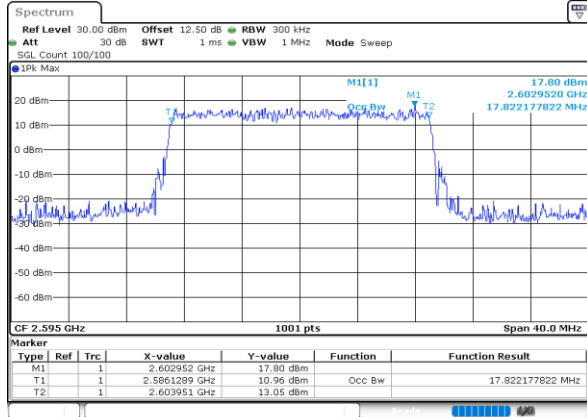
Middle Channel / 15MHz / 16QAM



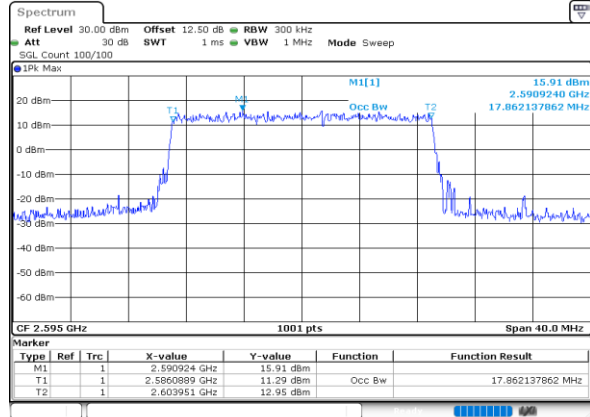


LTE Band 38

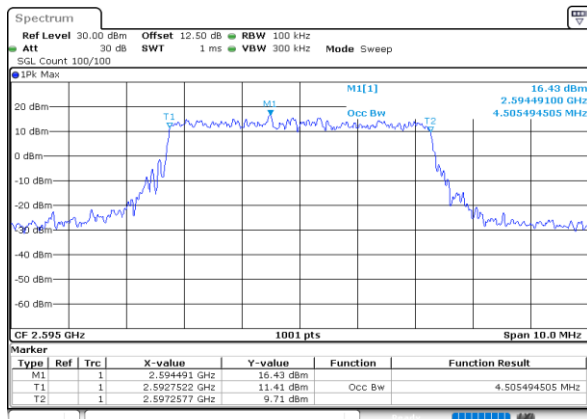
Middle Channel / 20MHz / QPSK



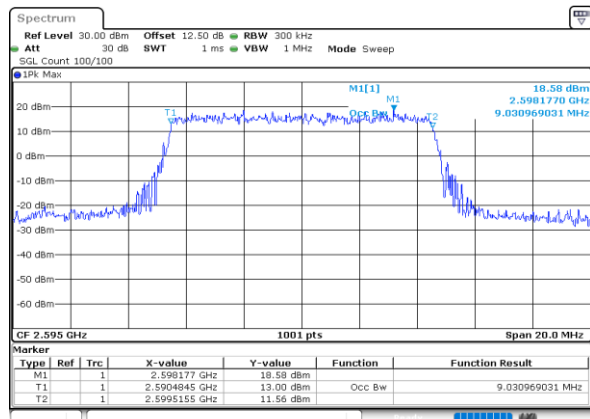
Middle Channel / 20MHz / 16QAM



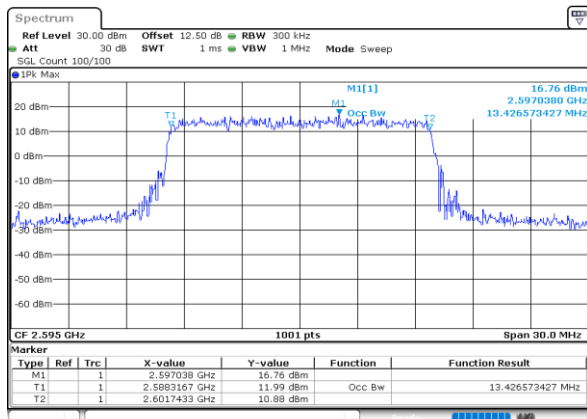
Middle Channel / 5MHz / 64QAM



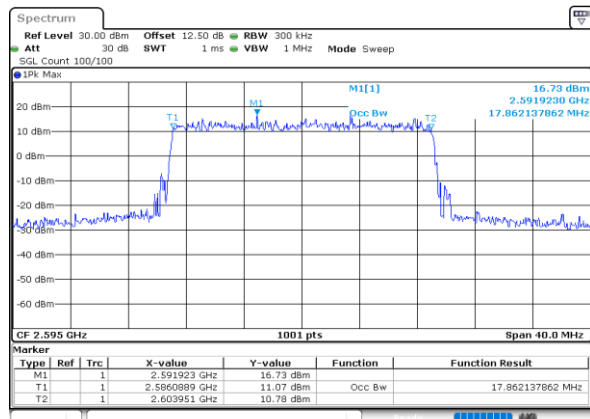
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



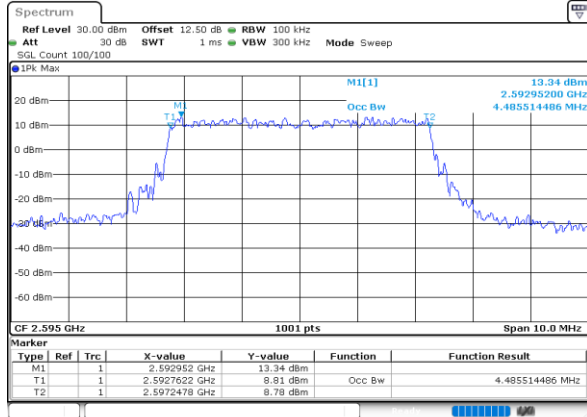
Middle Channel / 20MHz / 64QAM



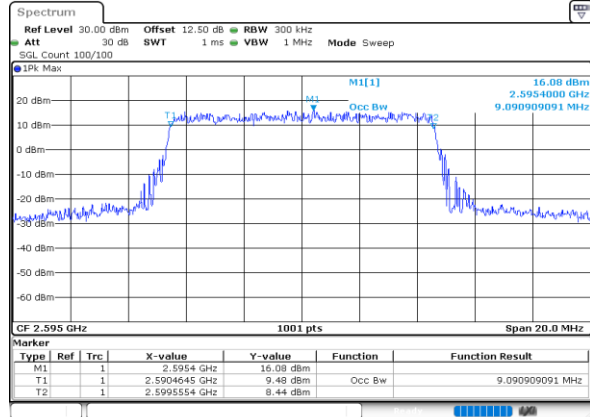


LTE Band 38

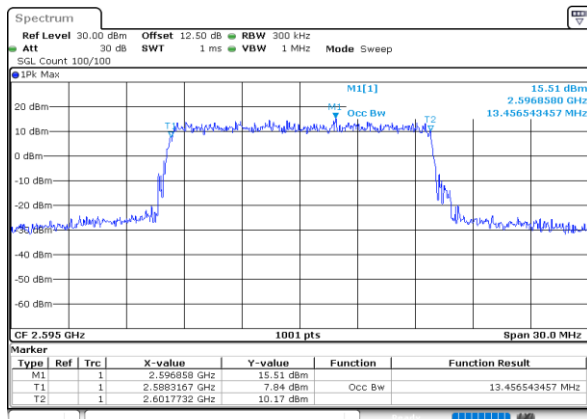
Middle Channel / 5MHz / 256QAM



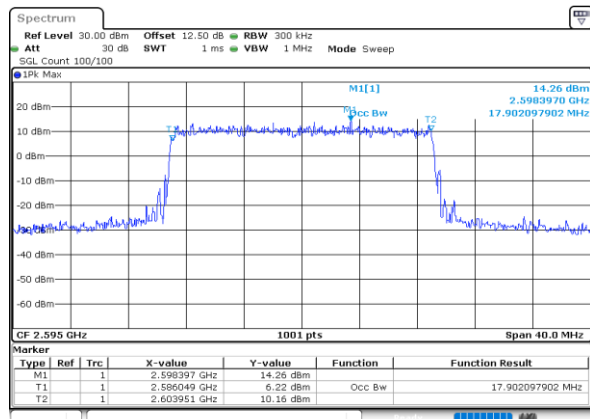
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

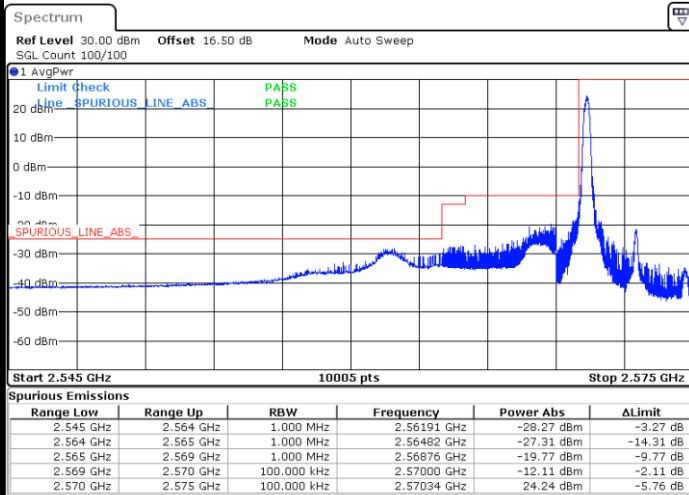




Conducted Band Edge

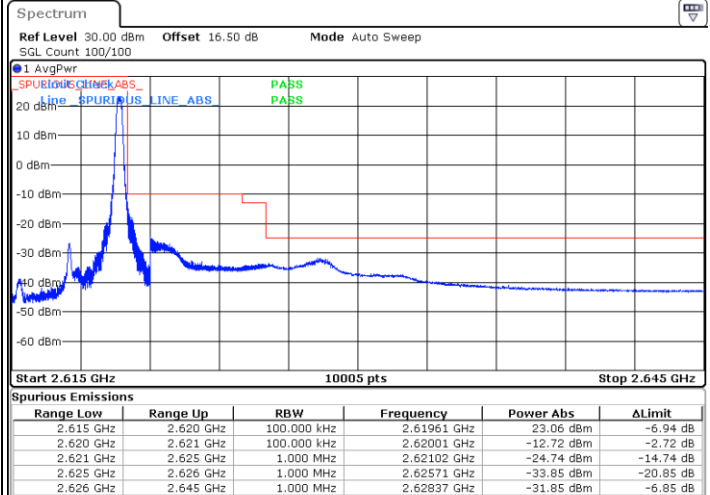
LTE Band 38 / 5MHz / QPSK

Lowest Band Edge / 1 RB



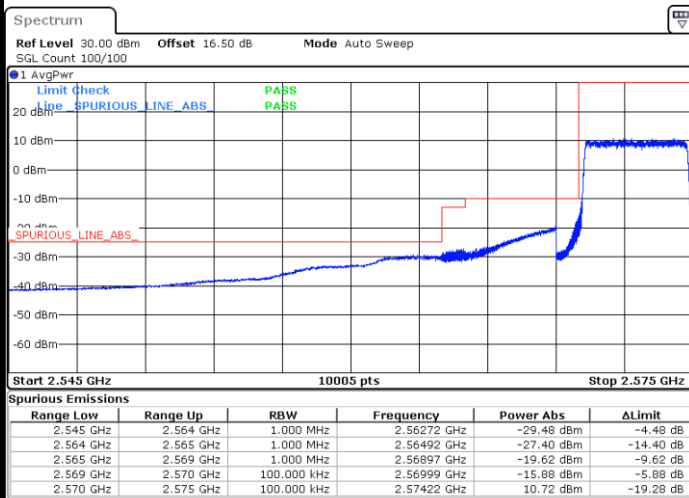
Date: 14.FEB.2024 06:34:20

Highest Band Edge / 1 RB



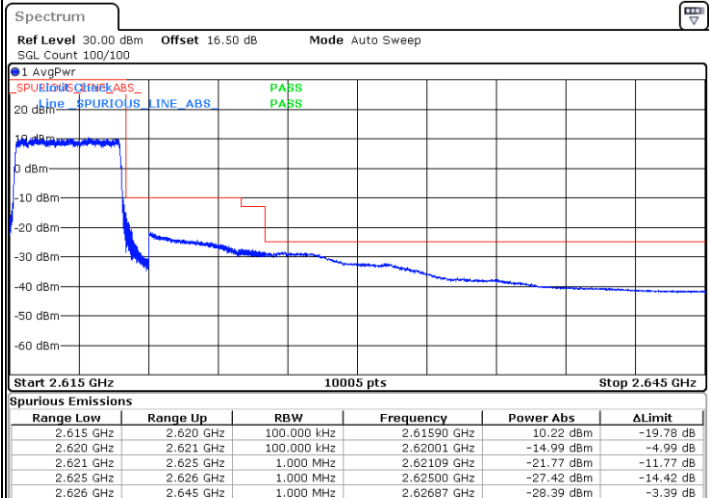
Date: 15.FEB.2024 20:08:36

Lowest Band Edge / Full RB



Date: 14.FEB.2024 06:38:33

Highest Band Edge / Full RB

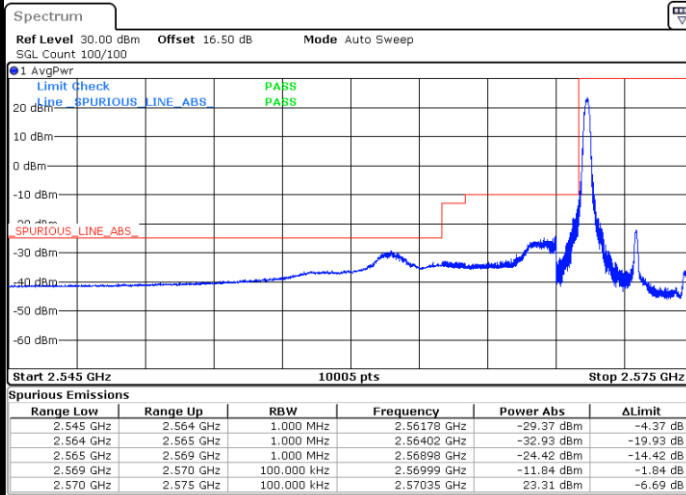


Date: 14.FEB.2024 06:43:28

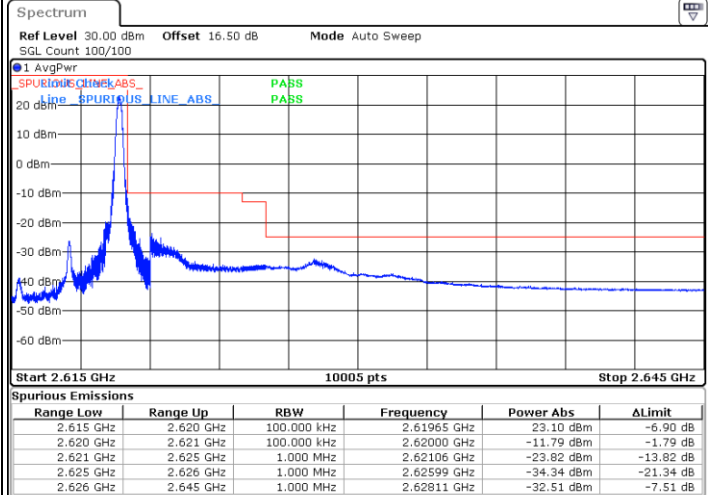


LTE Band 38 / 5MHz / 16QAM

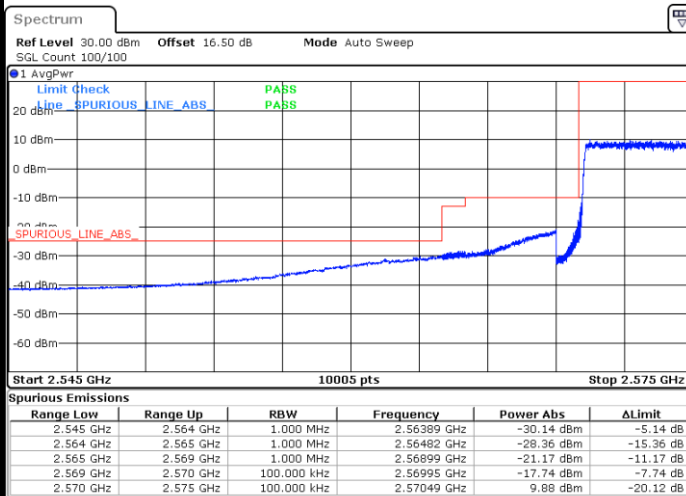
Lowest Band Edge / 1RB



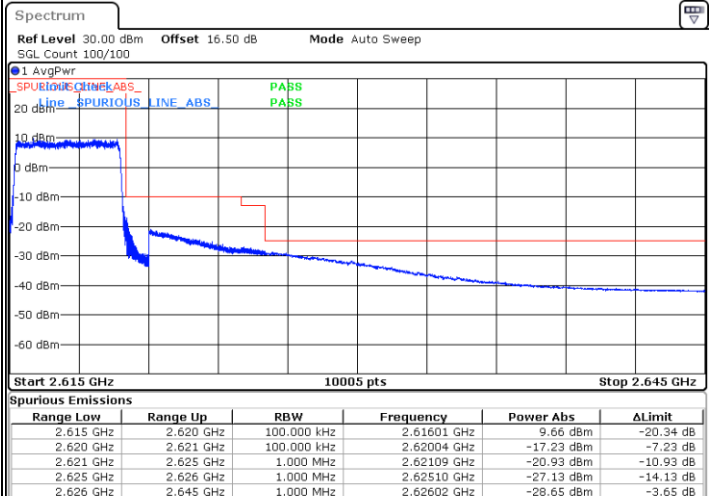
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



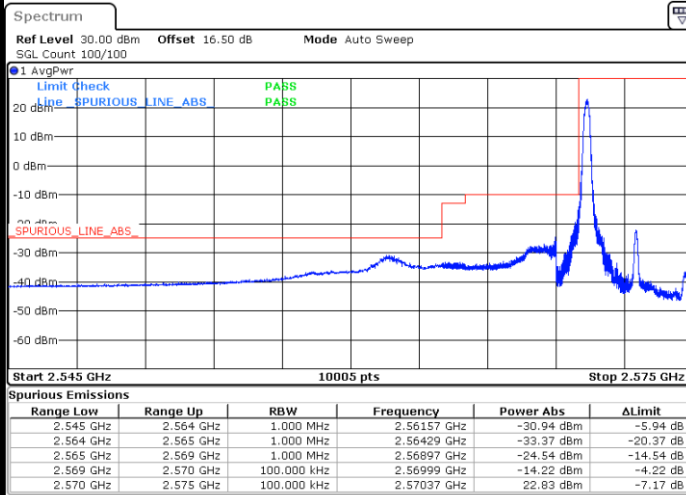
Highest Band Edge / Full RB





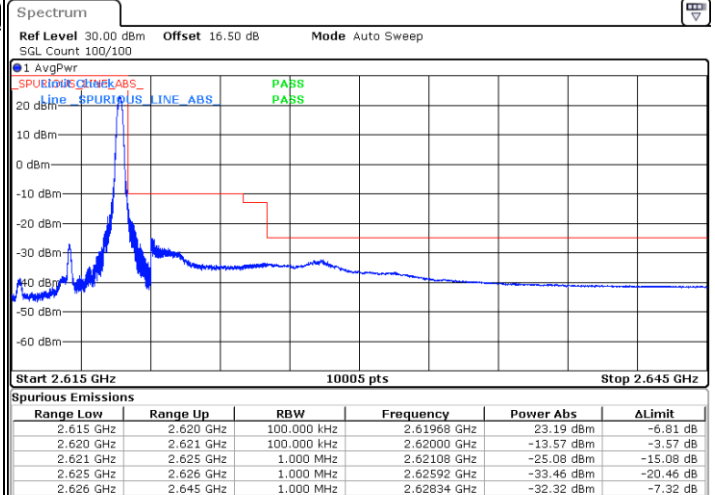
LTE Band 38 / 5MHz / 64QAM

Lowest Band Edge / 1RB



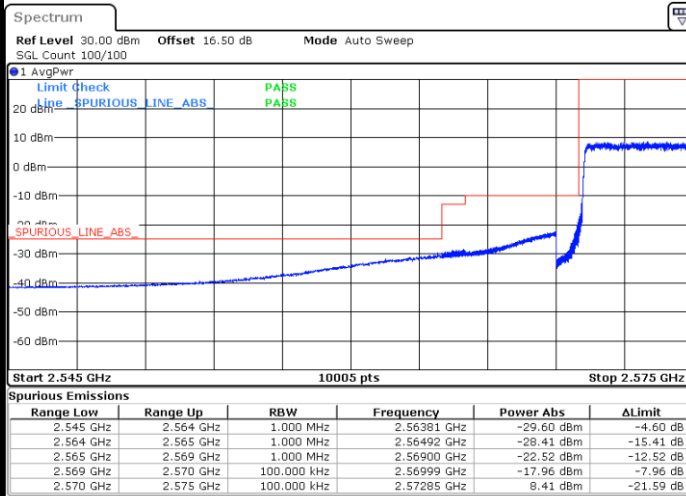
Date: 14.FEB.2024 06:51:52

Highest Band Edge / 1 RB



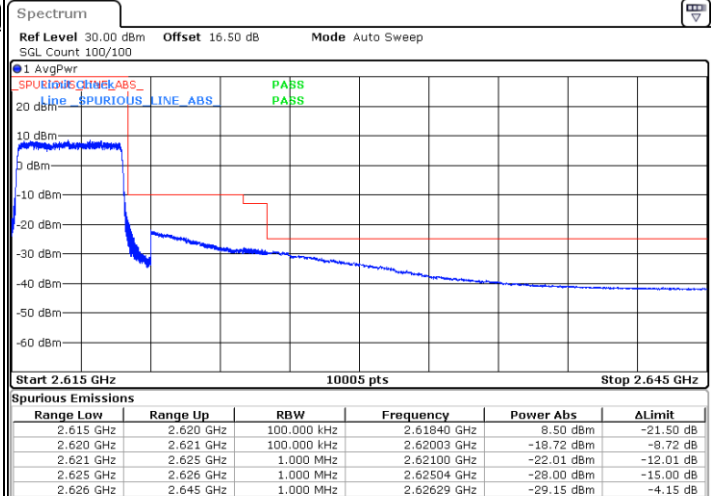
Date: 15.FEB.2024 09:32:14

Lowest Band Edge / Full RB



Date: 14.FEB.2024 06:53:59

Highest Band Edge / Full RB

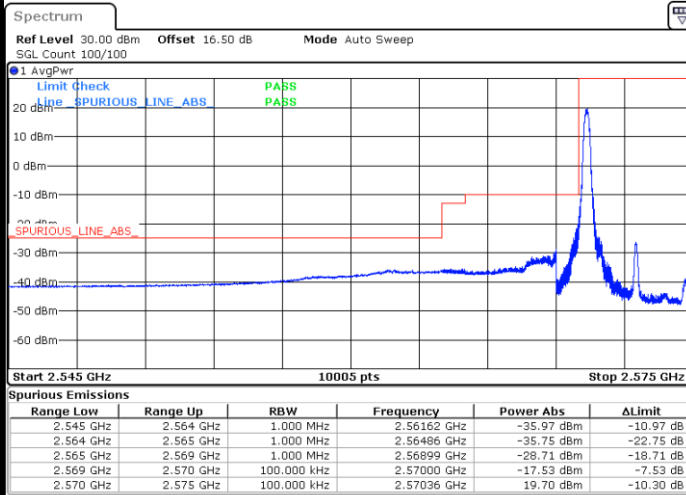


Date: 14.FEB.2024 06:56:03

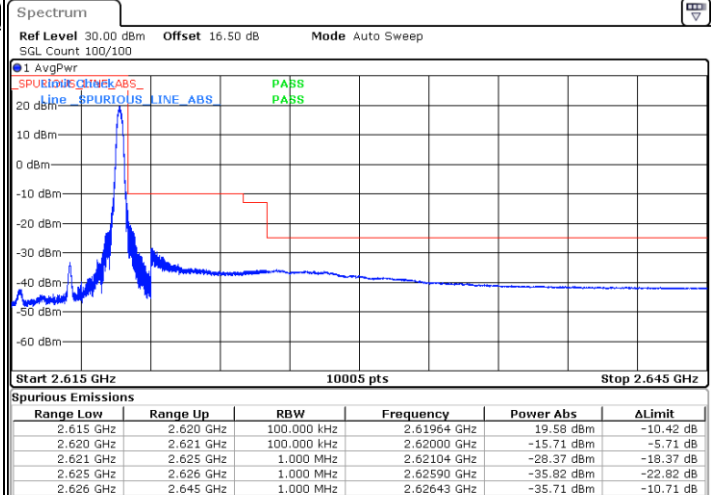


LTE Band 38 / 5MHz / 256QAM

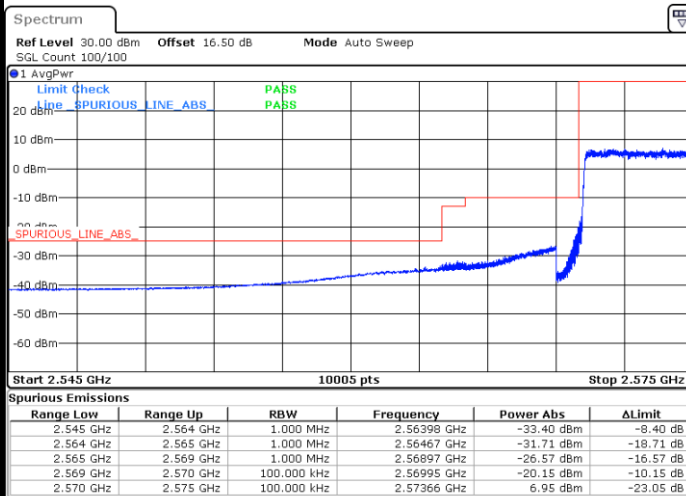
Lowest Band Edge / 1RB



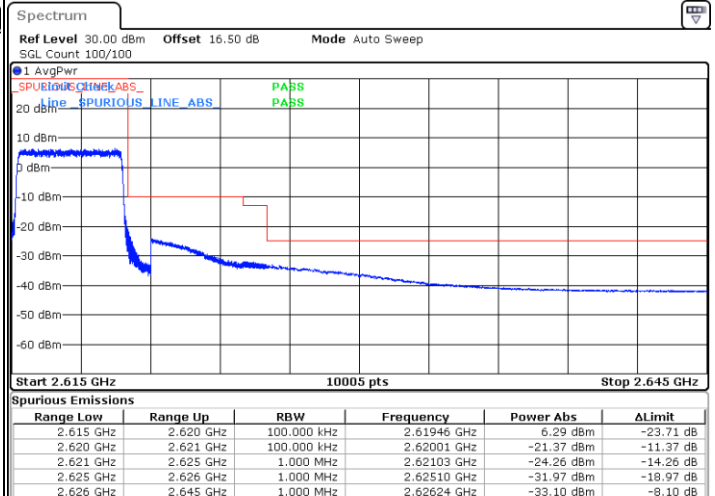
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



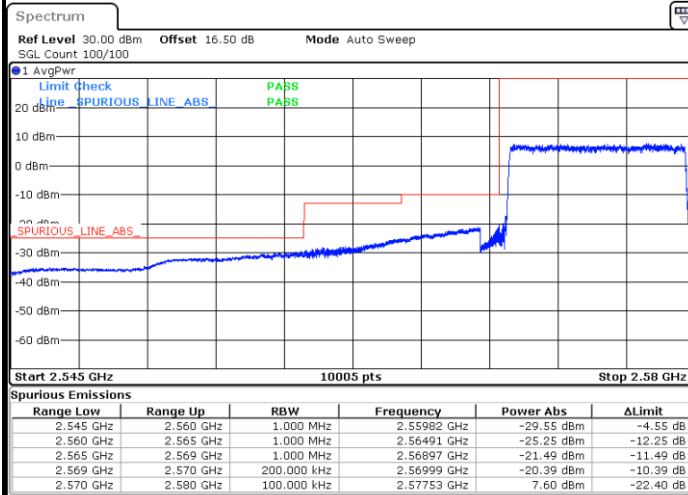
Highest Band Edge / Full RB



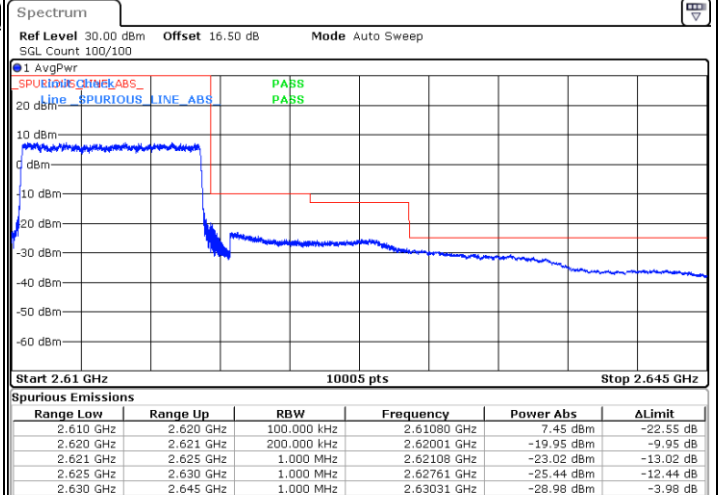


LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / Full RB

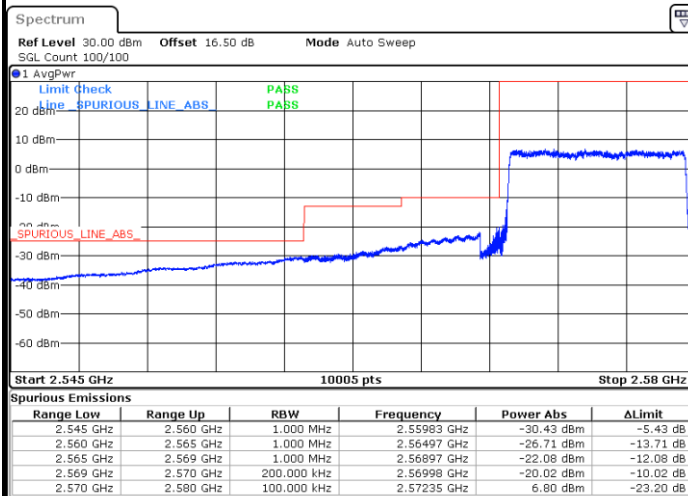


Highest Band Edge / Full RB

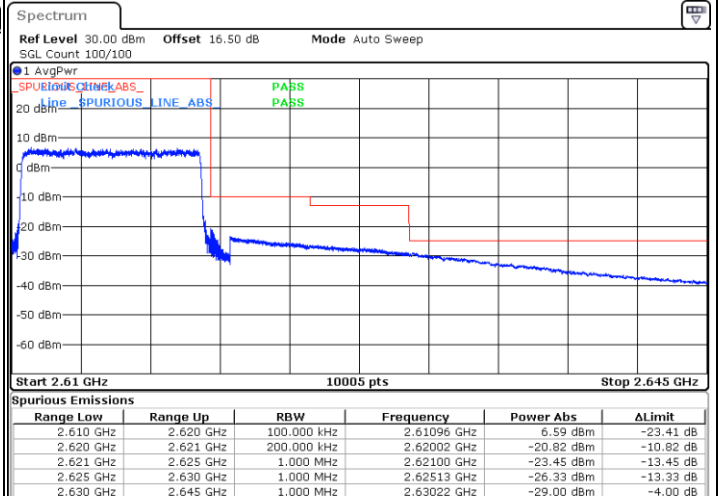


LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / Full RB



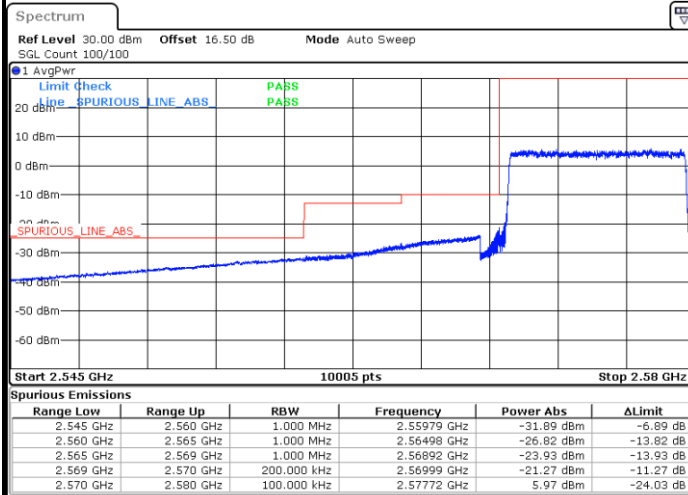
Highest Band Edge / Full RB



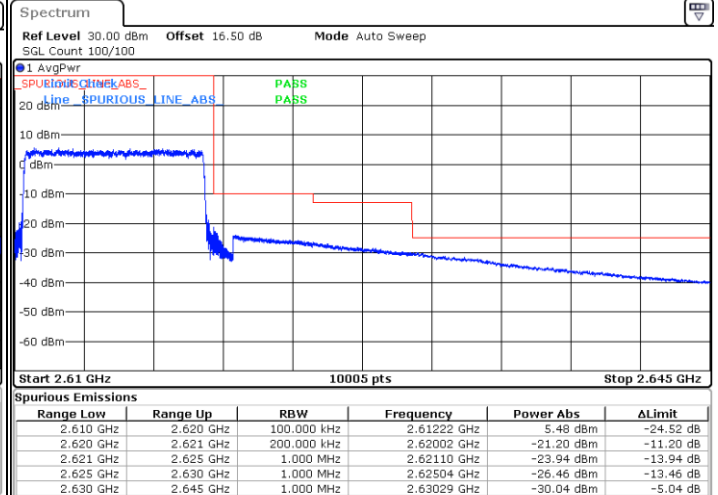


LTE Band 38 / 10MHz / 64QAM

Lowest Band Edge / Full RB

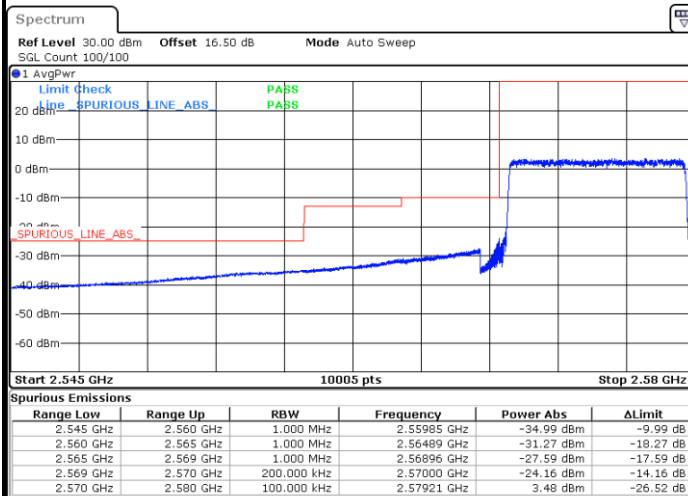


Highest Band Edge / Full RB

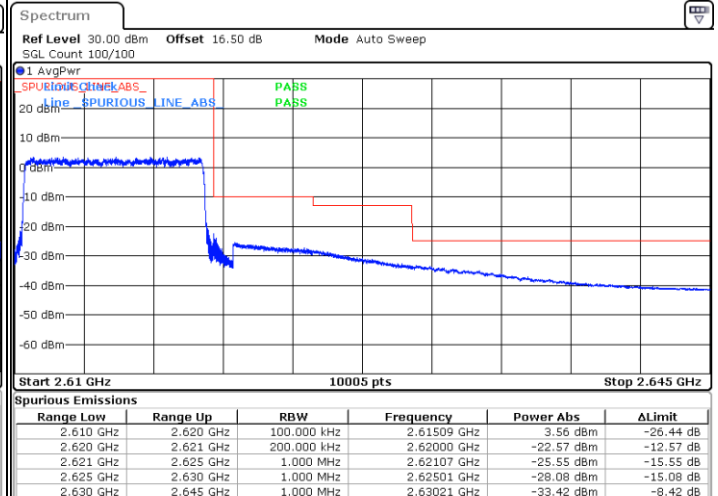


LTE Band 38 / 10MHz / 256QAM

Lowest Band Edge / Full RB



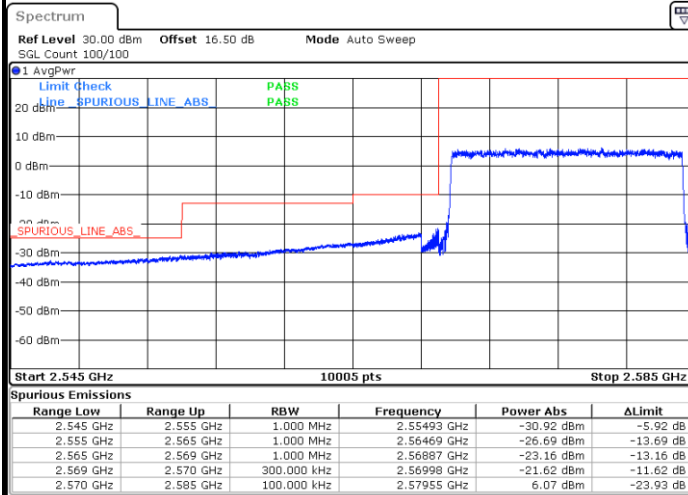
Highest Band Edge / Full RB



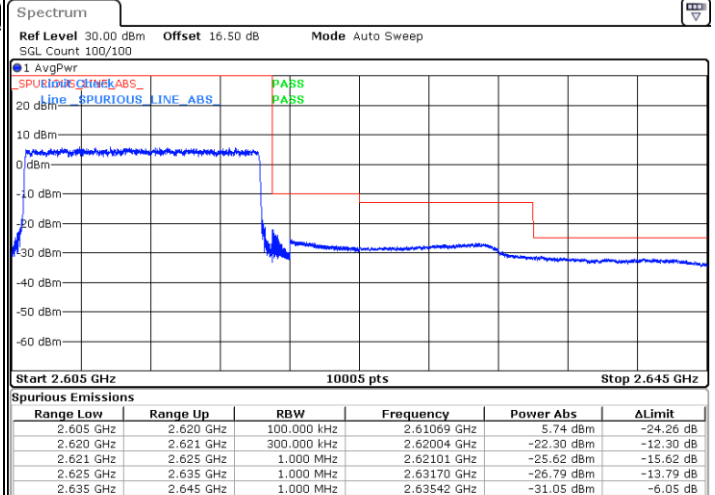


LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / Full RB

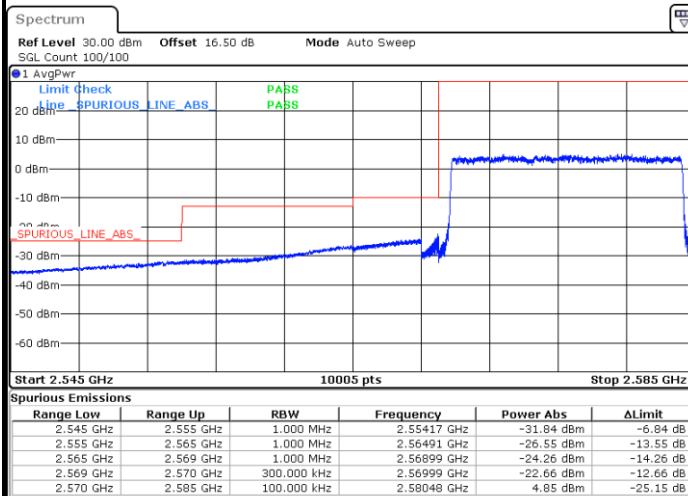


Highest Band Edge / Full RB

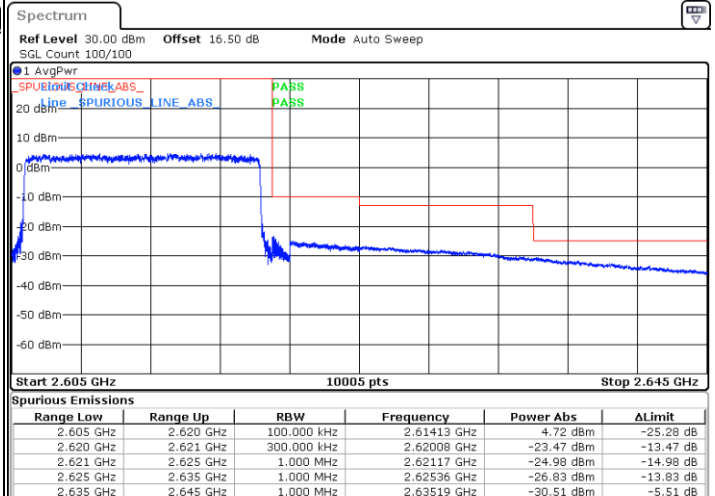


LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / Full RB



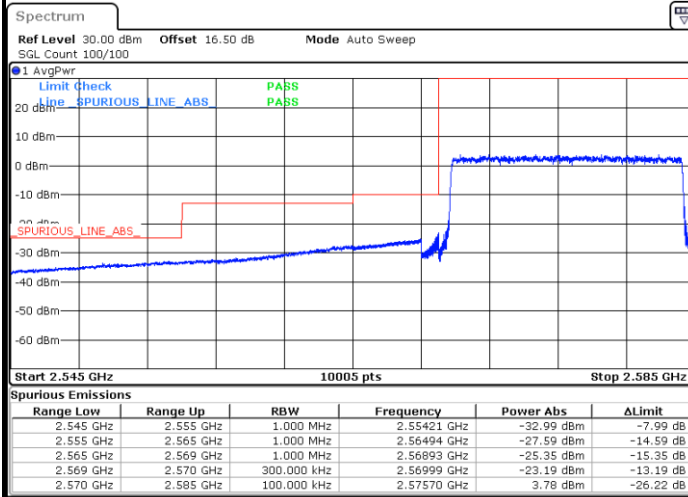
Highest Band Edge / Full RB



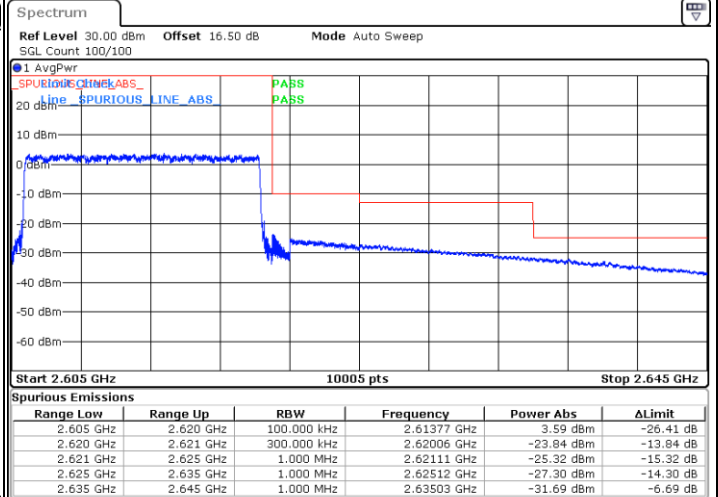


LTE Band 38 / 15MHz / 64QAM

Lowest Band Edge / Full RB

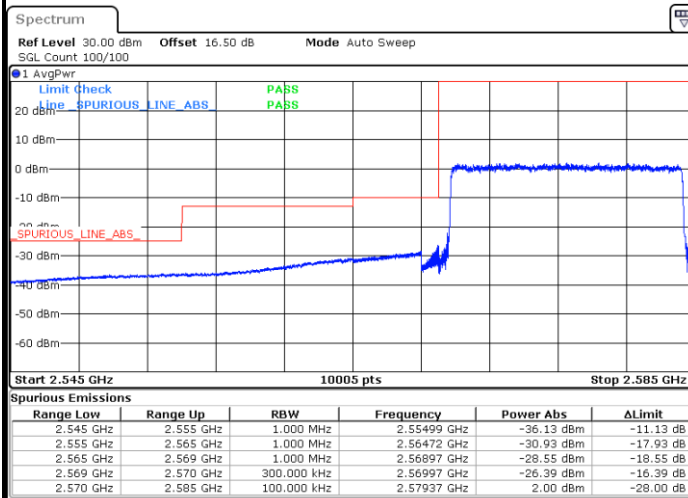


Highest Band Edge / Full RB

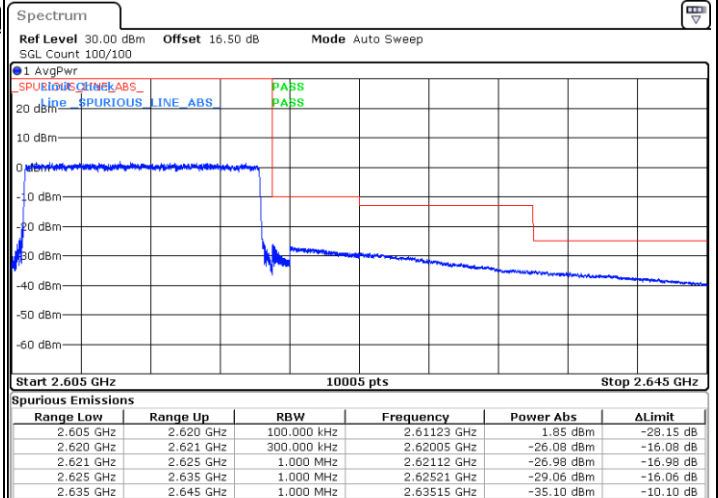


LTE Band 38 / 15MHz / 256QAM

Lowest Band Edge / Full RB



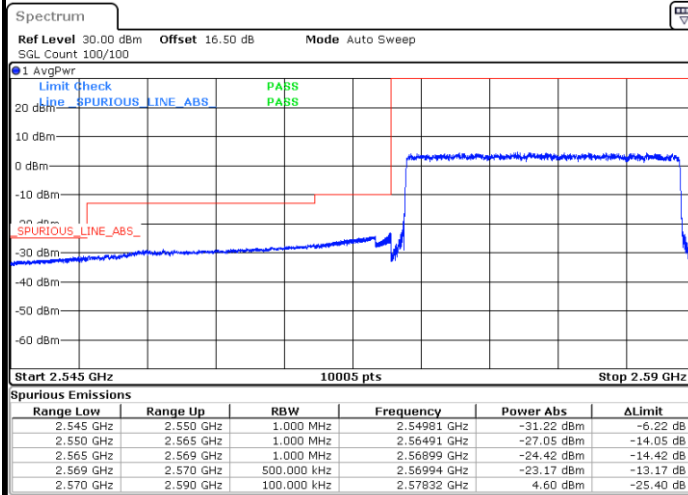
Highest Band Edge / Full RB



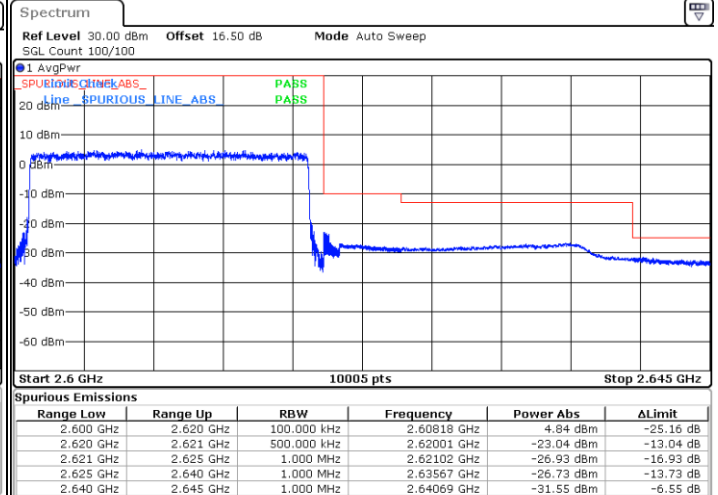


LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / Full RB

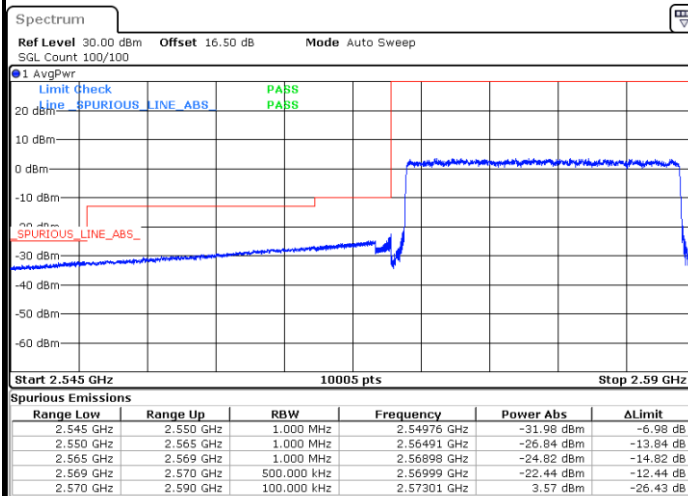


Highest Band Edge / Full RB

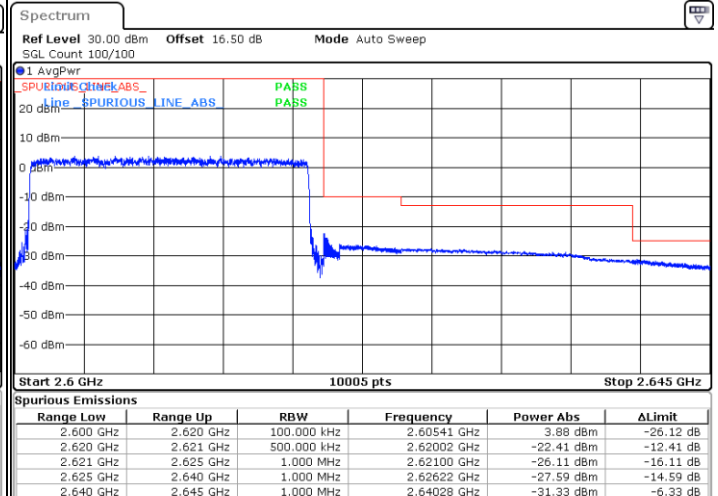


LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / Full RB



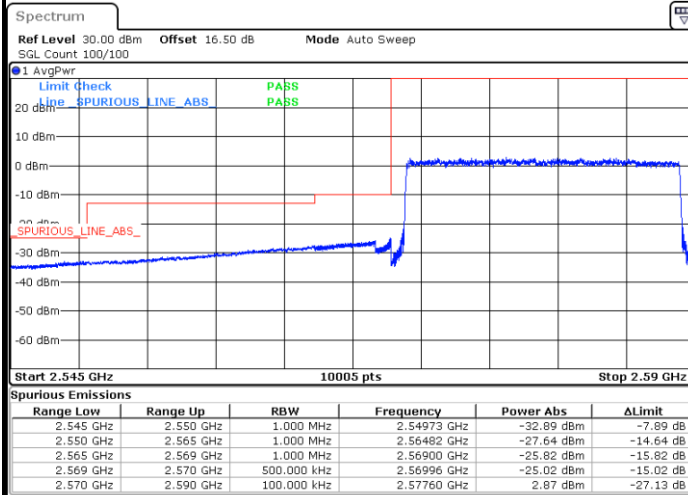
Highest Band Edge / Full RB



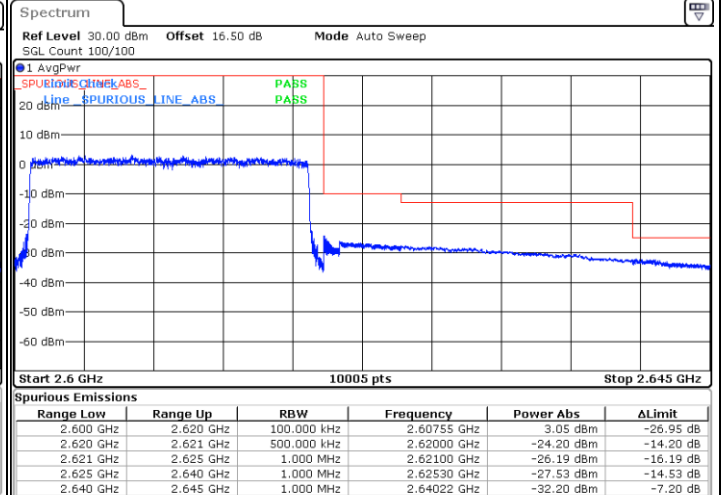


LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / Full RB

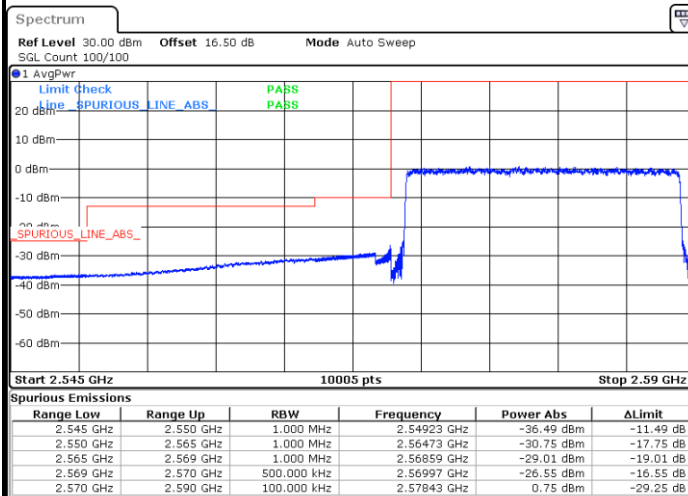


Highest Band Edge / Full RB



LTE Band 38 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

