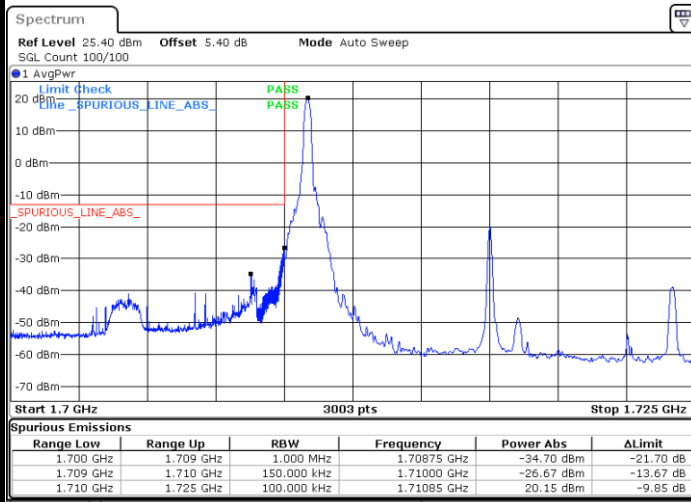


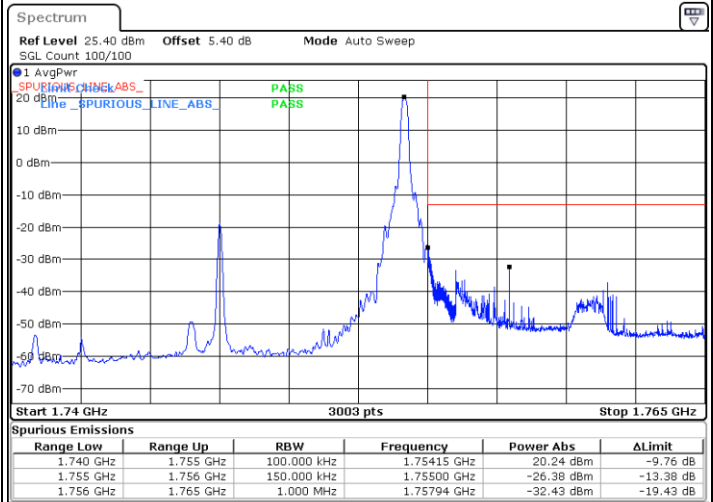


LTE Band 4 / 15MHz / 16QAM

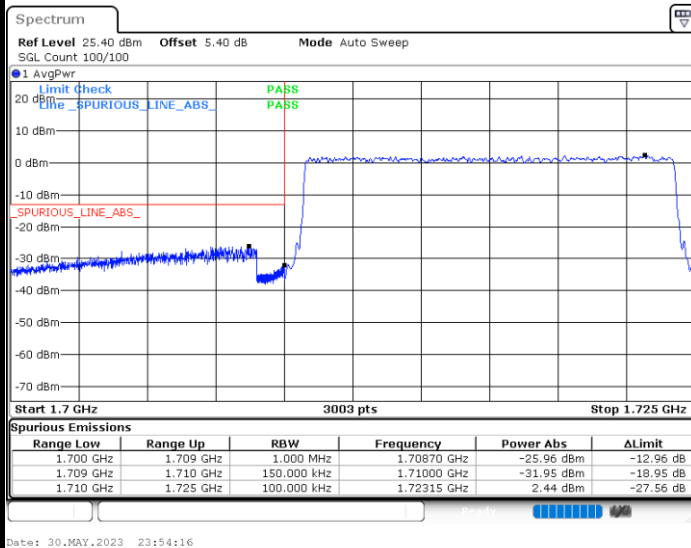
Lowest Band Edge / 1 RB



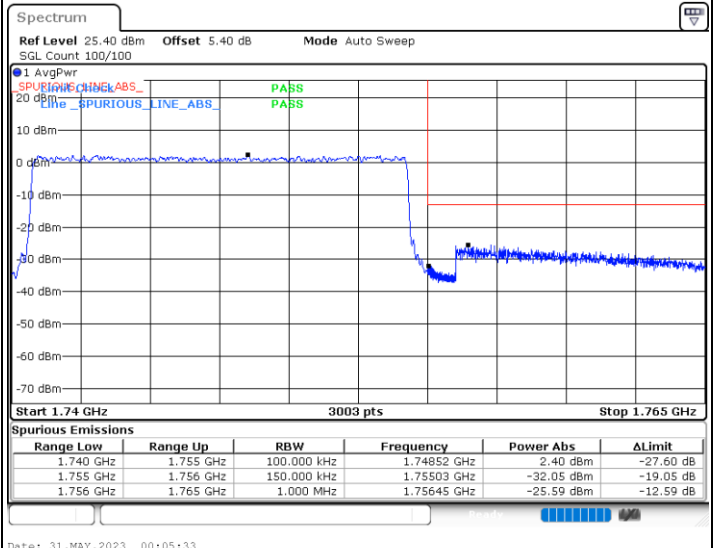
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



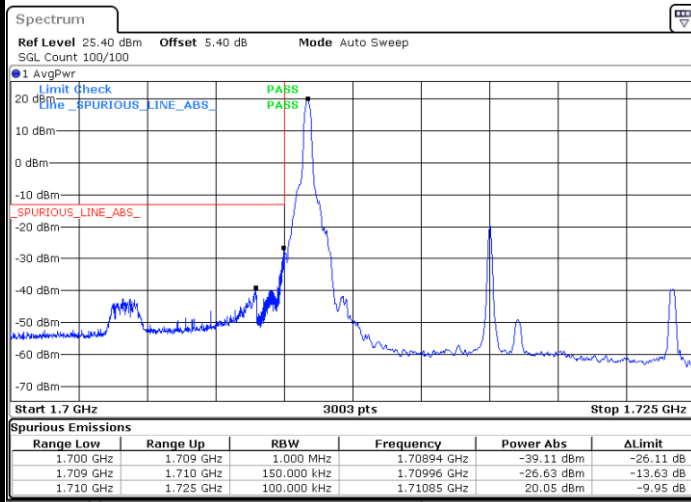
Highest Band Edge / Full RB



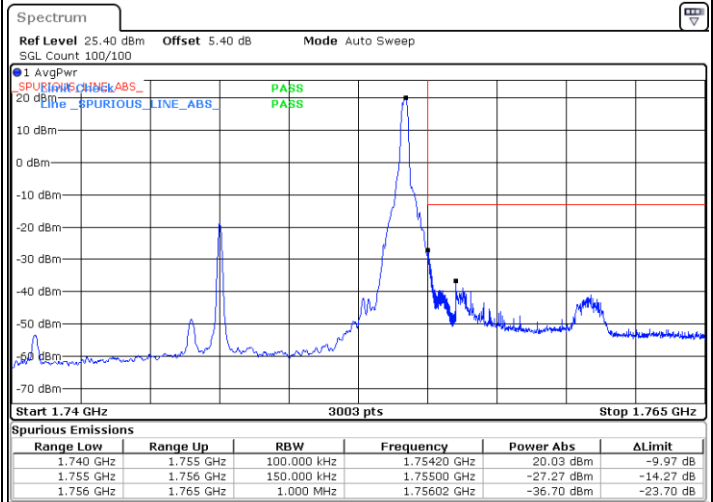


LTE Band 4 / 15MHz / 64QAM

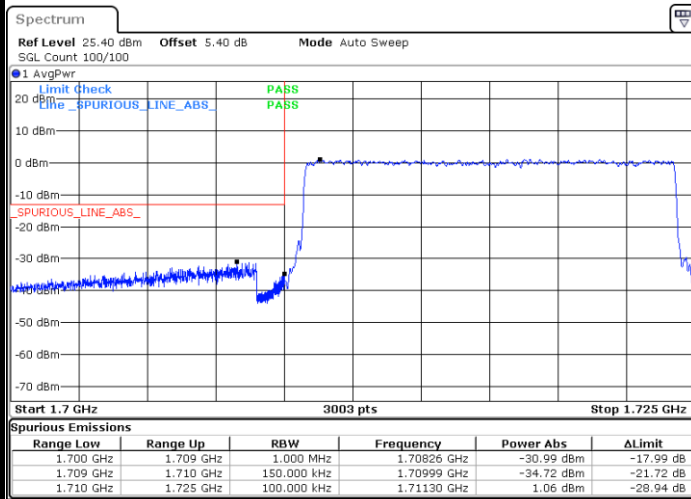
Lowest Band Edge / 1 RB



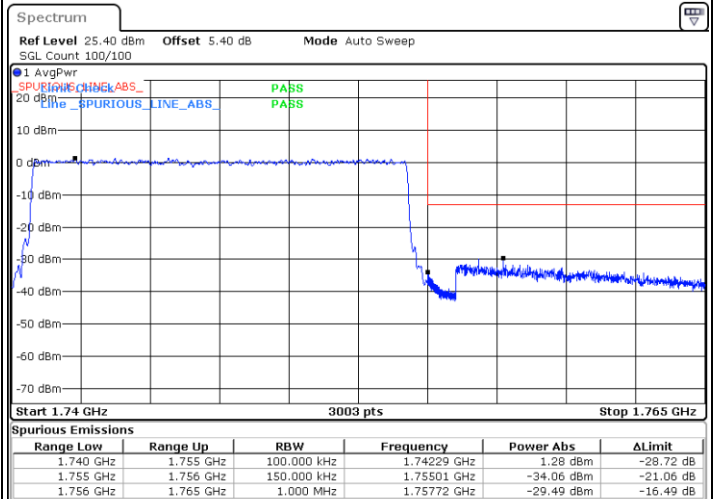
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



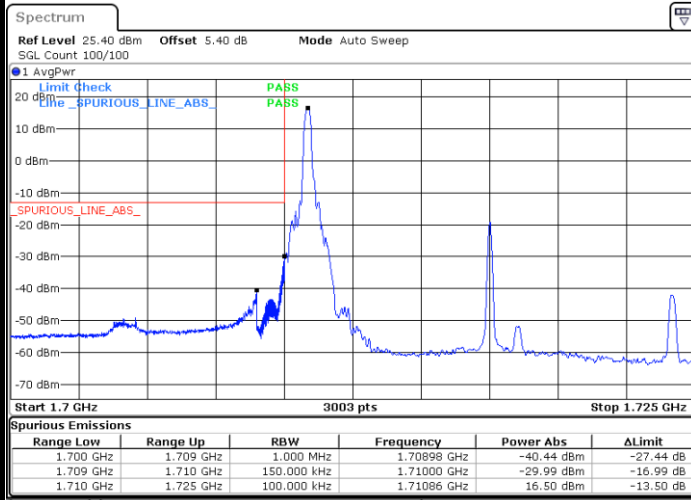
Highest Band Edge / Full RB



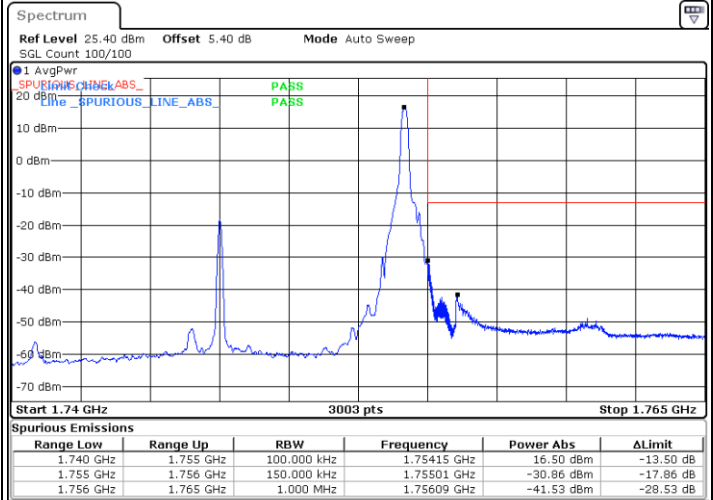


LTE Band 4 / 15MHz / 256QAM

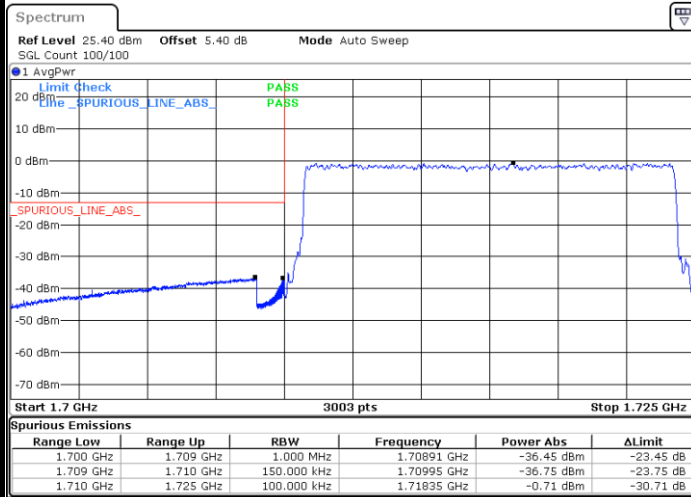
Lowest Band Edge / 1 RB



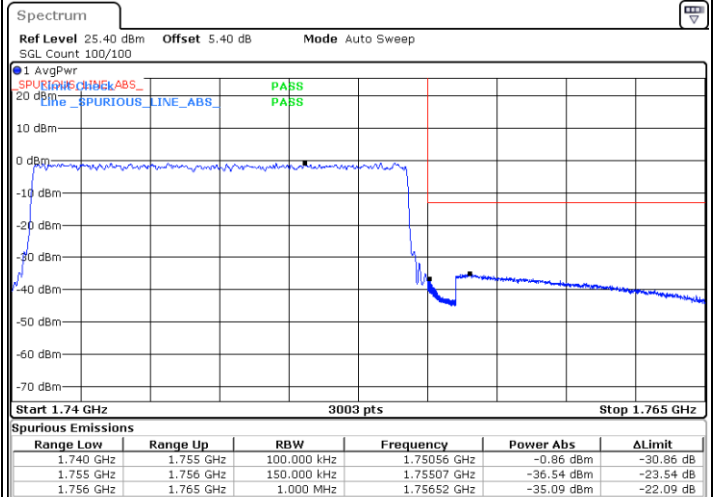
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



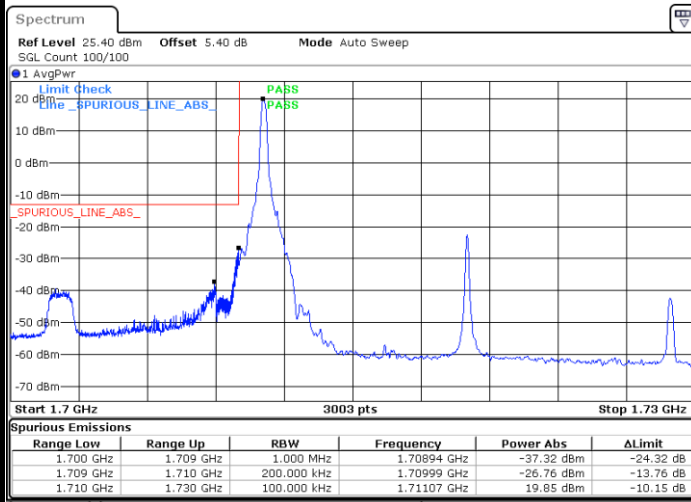
Highest Band Edge / Full RB



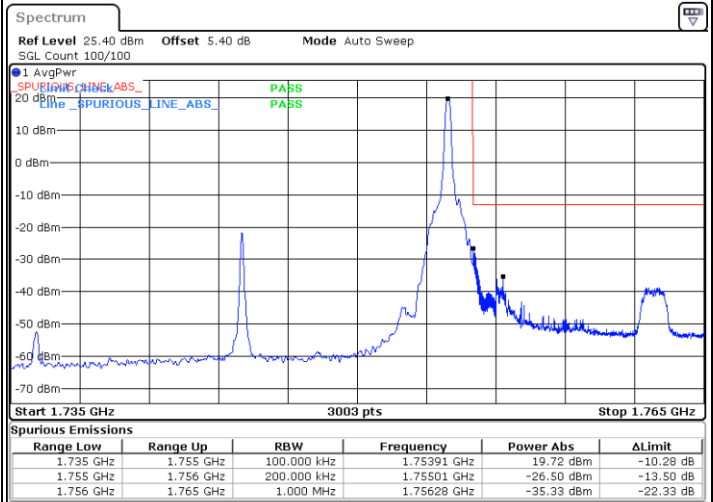


LTE Band 4 / 20MHz / QPSK

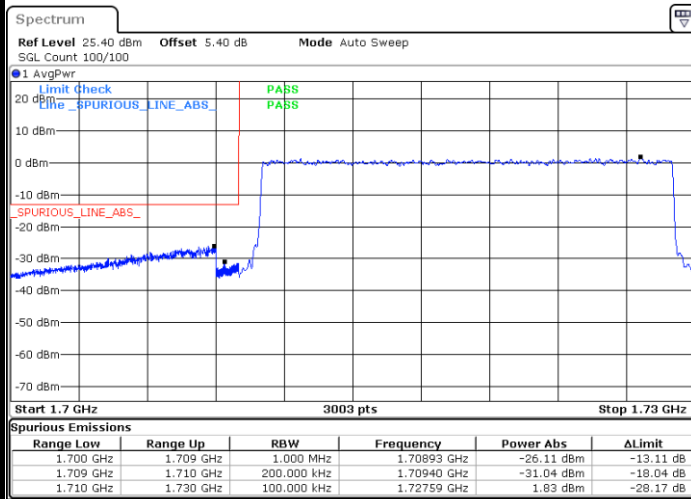
Lowest Band Edge / 1 RB



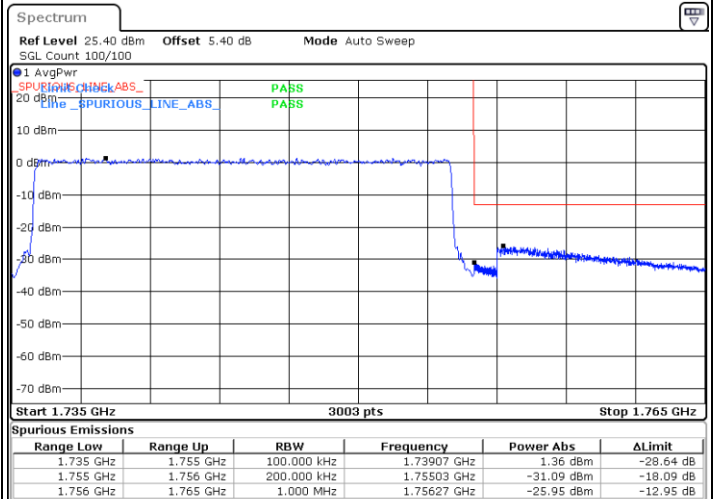
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



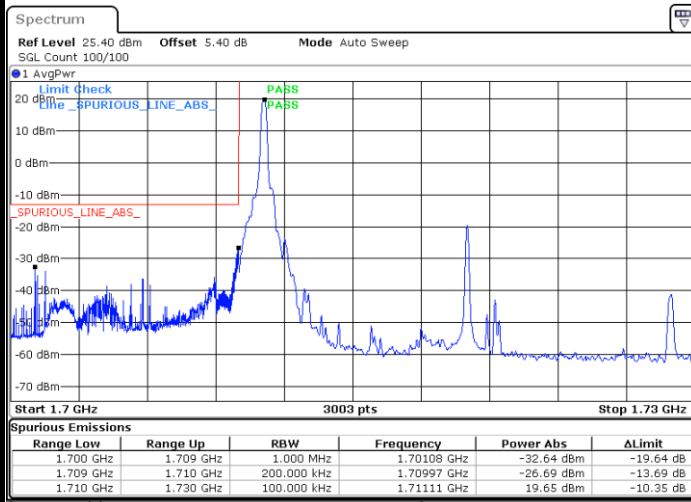
Highest Band Edge / Full RB



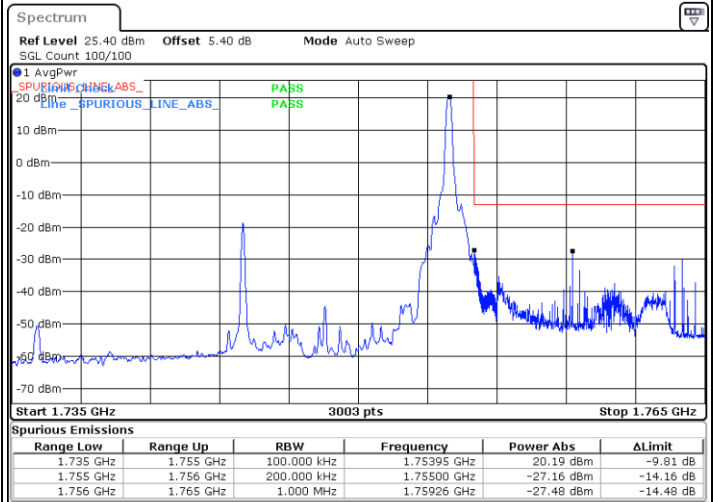


LTE Band 4 / 20MHz / 16QAM

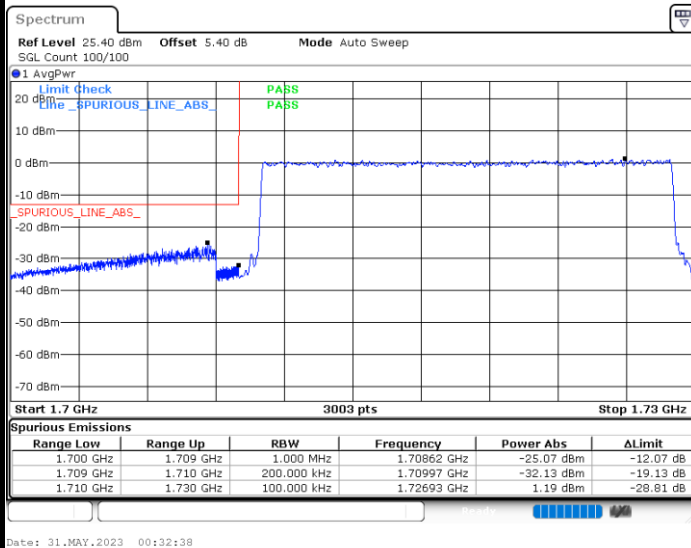
Lowest Band Edge / 1 RB



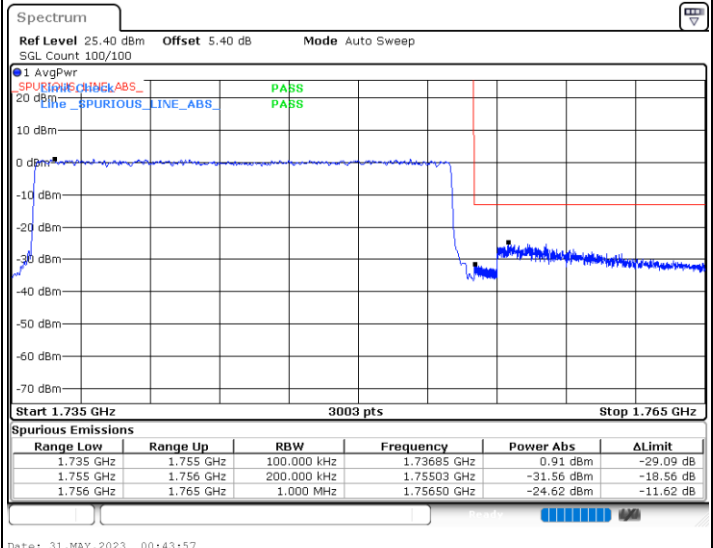
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



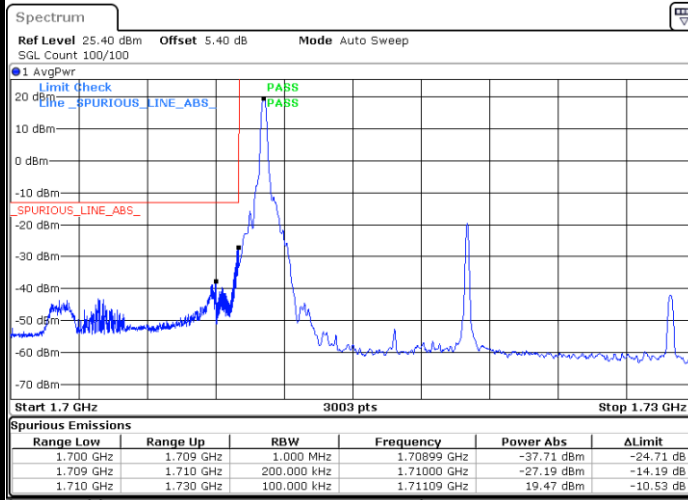
Highest Band Edge / Full RB



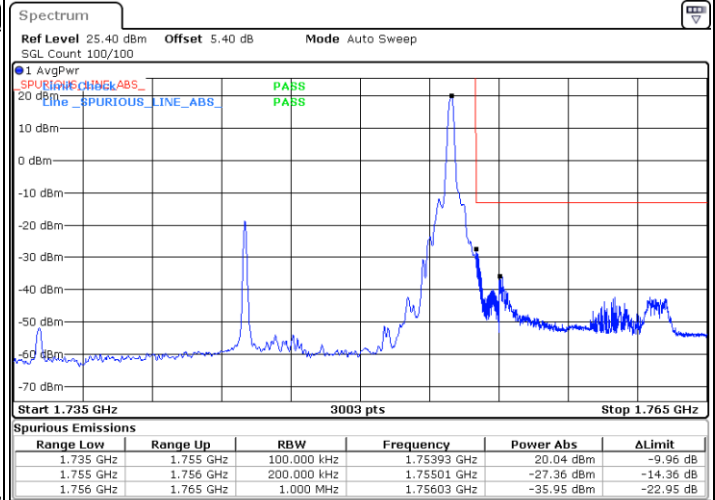


LTE Band 4 / 20MHz / 64QAM

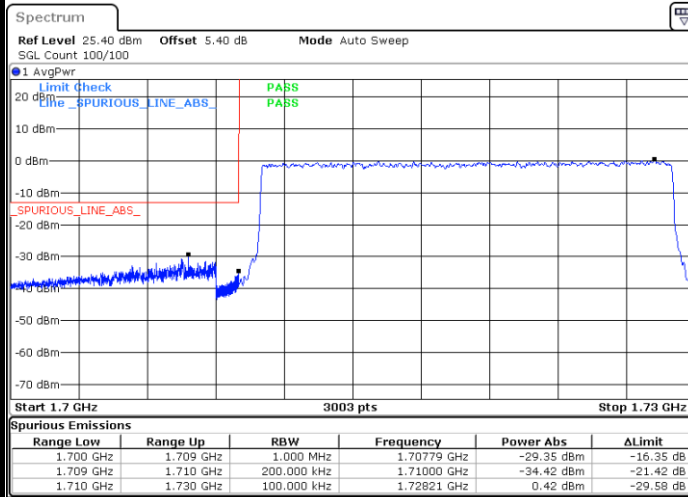
Lowest Band Edge / 1 RB



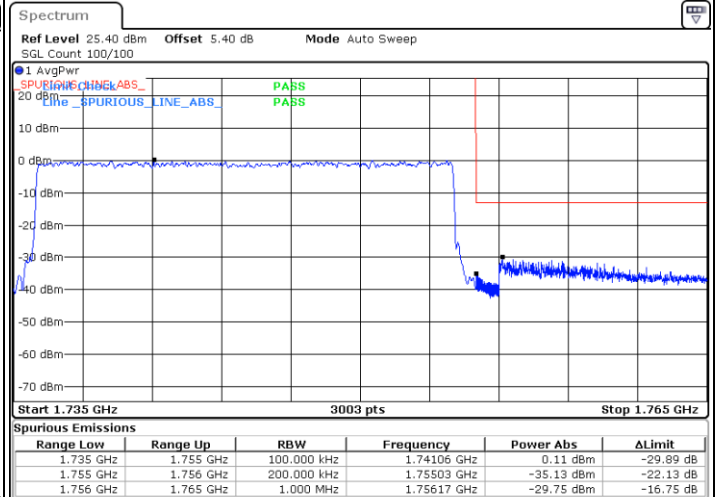
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



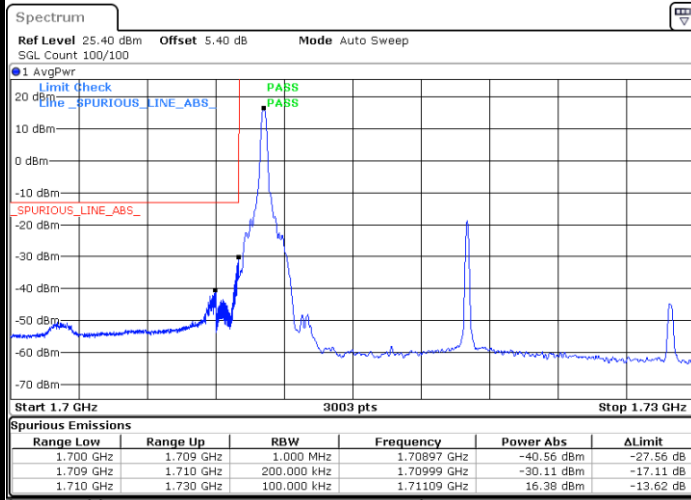
Highest Band Edge / Full RB



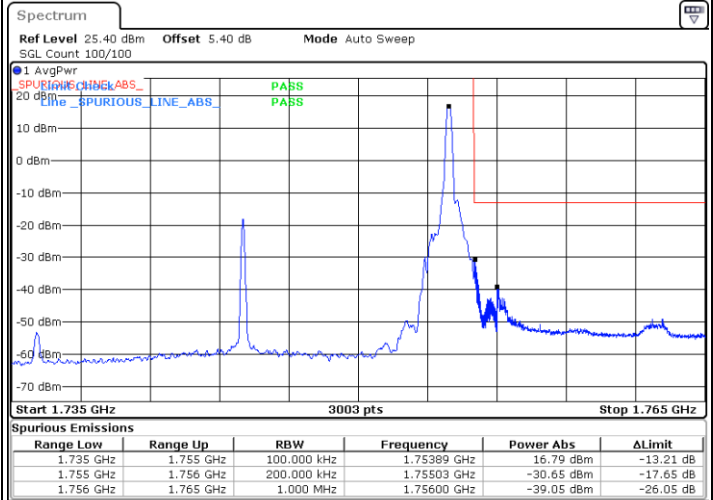


LTE Band 4 / 20MHz / 256QAM

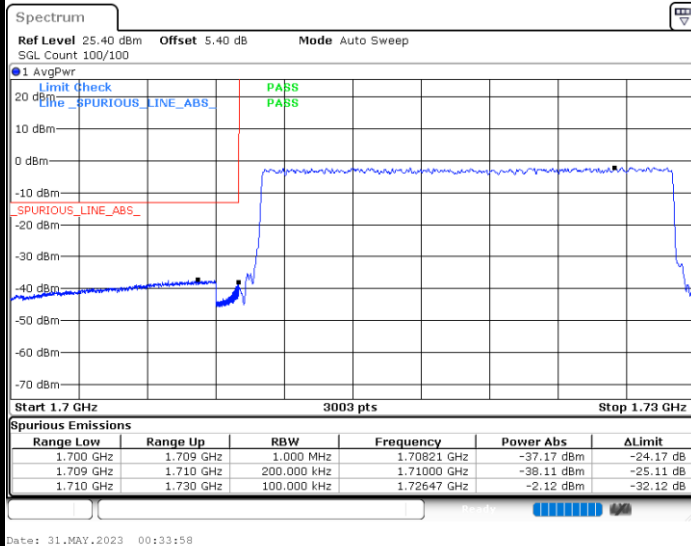
Lowest Band Edge / 1 RB



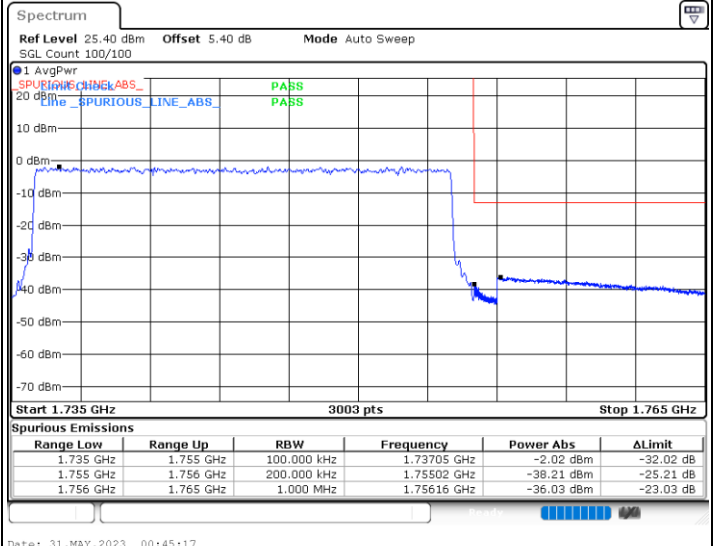
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

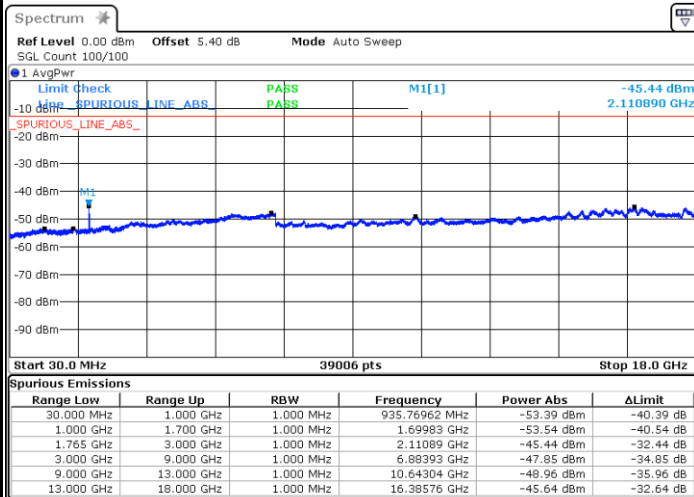




Conducted Spurious Emission

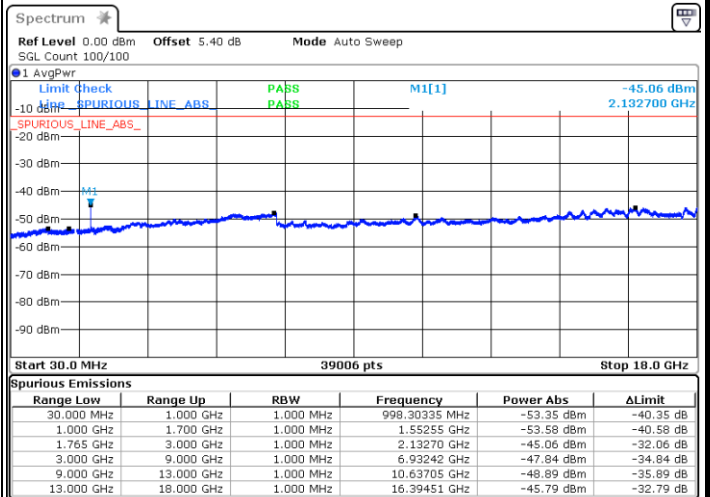
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



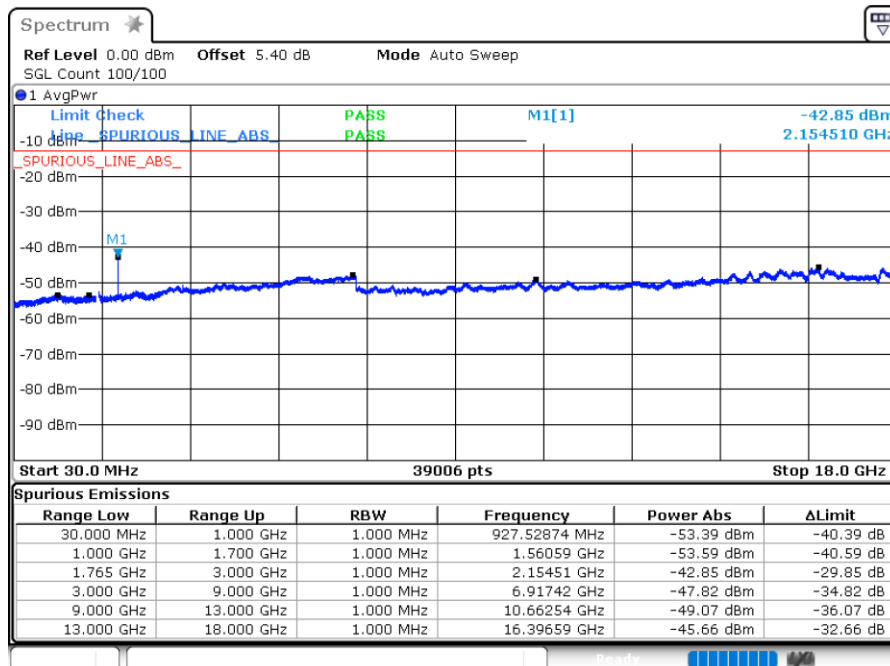
Date: 31.MAY.2023 01:44:40

Middle Channel / QPSK



Date: 31.MAY.2023 01:39:46

Highest Channel / QPSK

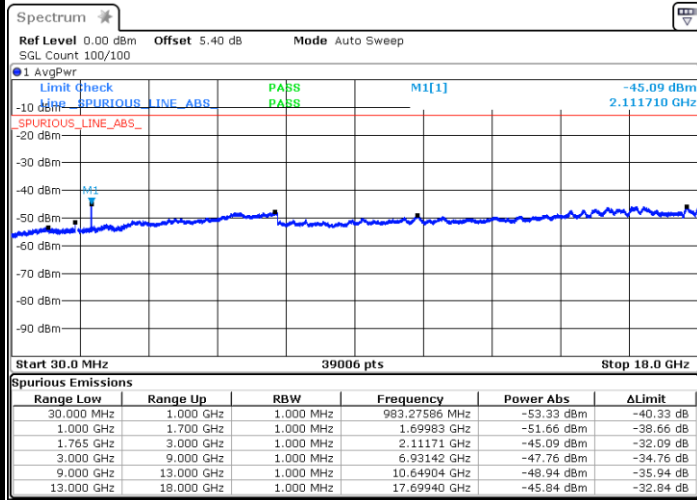


Date: 31.MAY.2023 01:42:19



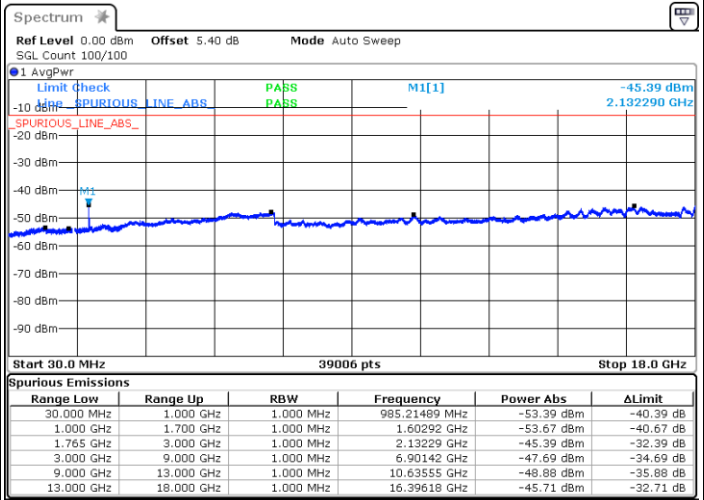
LTE Band 4 / 3MHz

Lowest Channel / QPSK



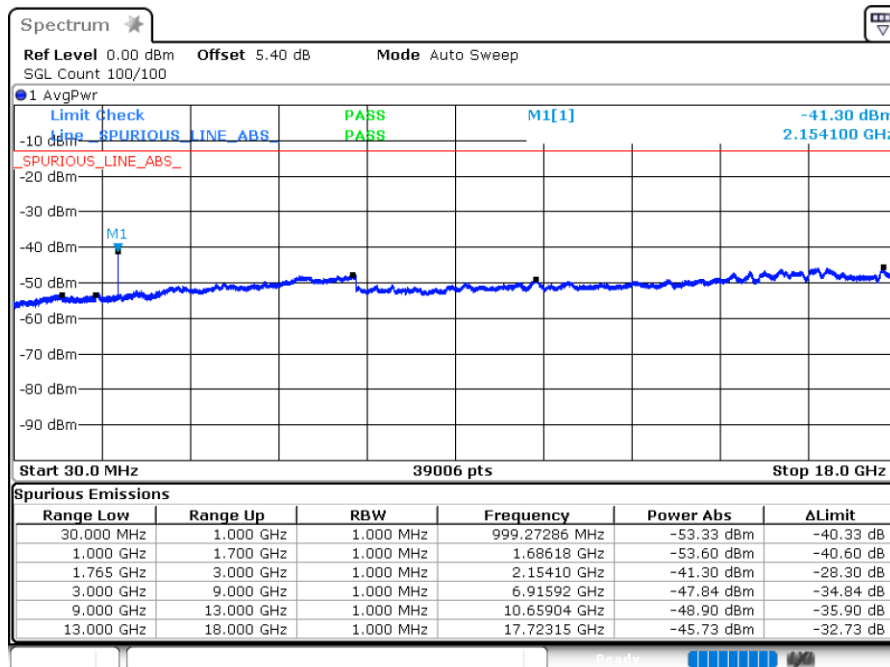
Date: 31.MAY.2023 01:29:34

Middle Channel / QPSK



Date: 31.MAY.2023 01:31:43

Highest Channel / QPSK

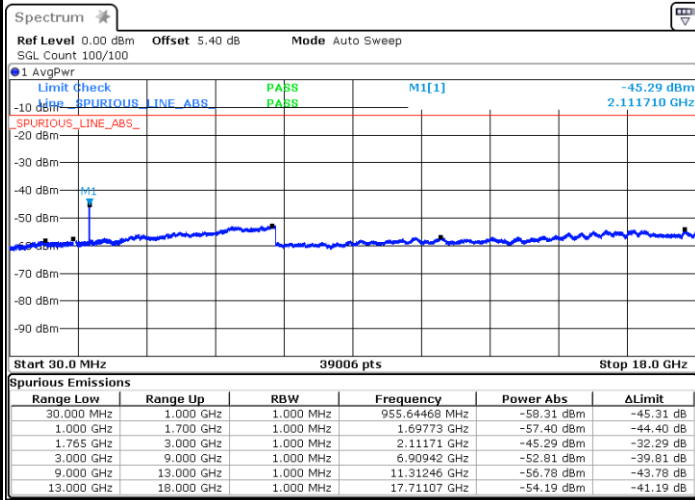


Date: 31.MAY.2023 01:34:05



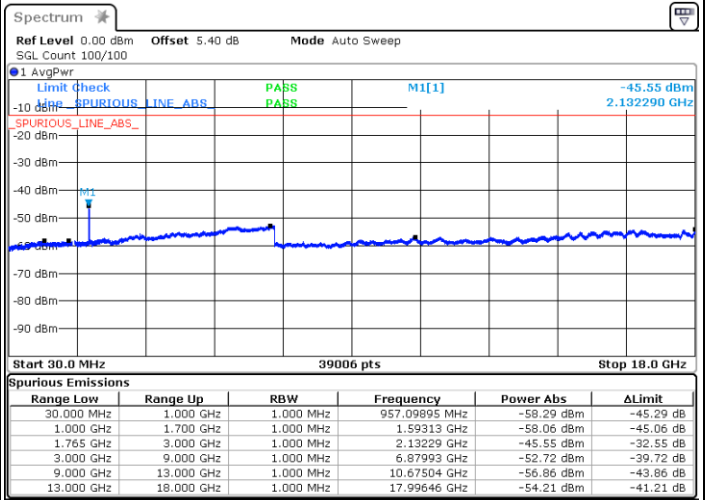
LTE Band 4 / 5MHz

Lowest Channel / QPSK



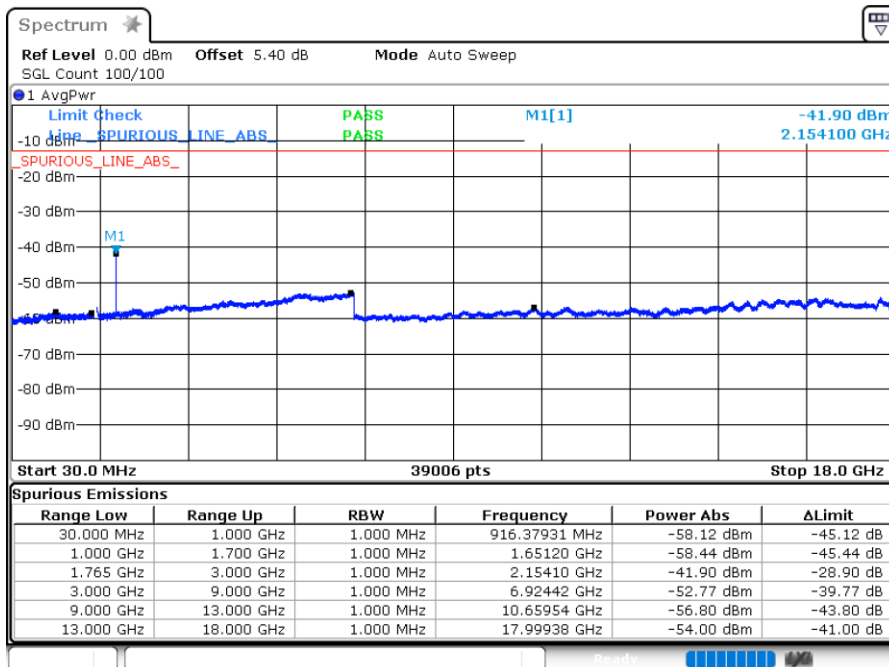
Date: 31.MAY.2023 01:21:46

Middle Channel / QPSK



Date: 31.MAY.2023 01:23:56

Highest Channel / QPSK

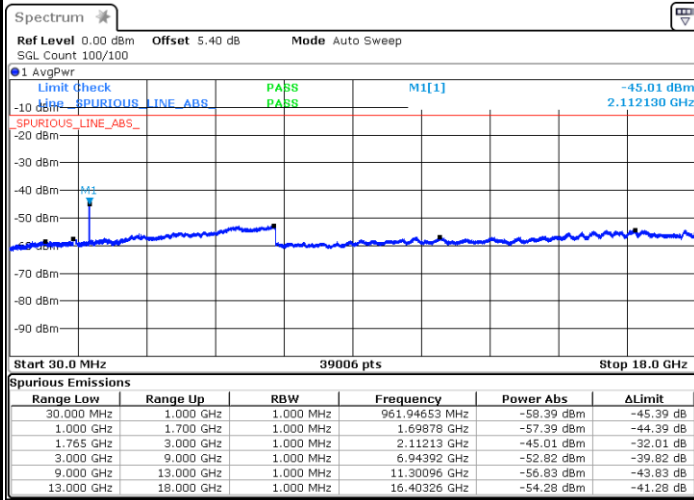


Date: 31.MAY.2023 01:26:22



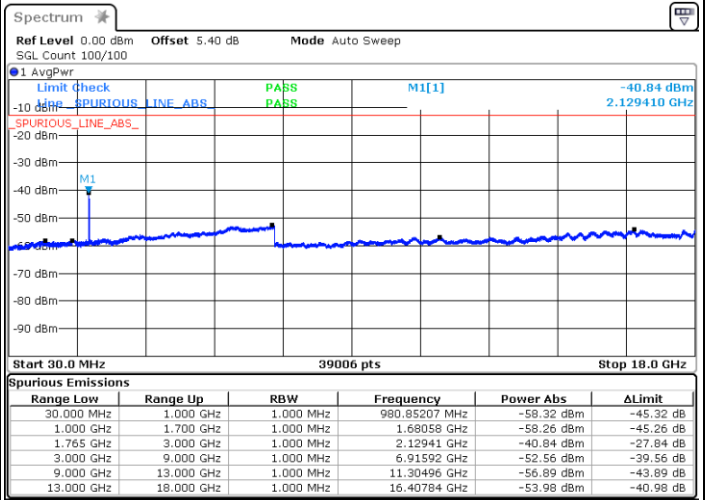
LTE Band 4 / 10MHz

Lowest Channel / QPSK



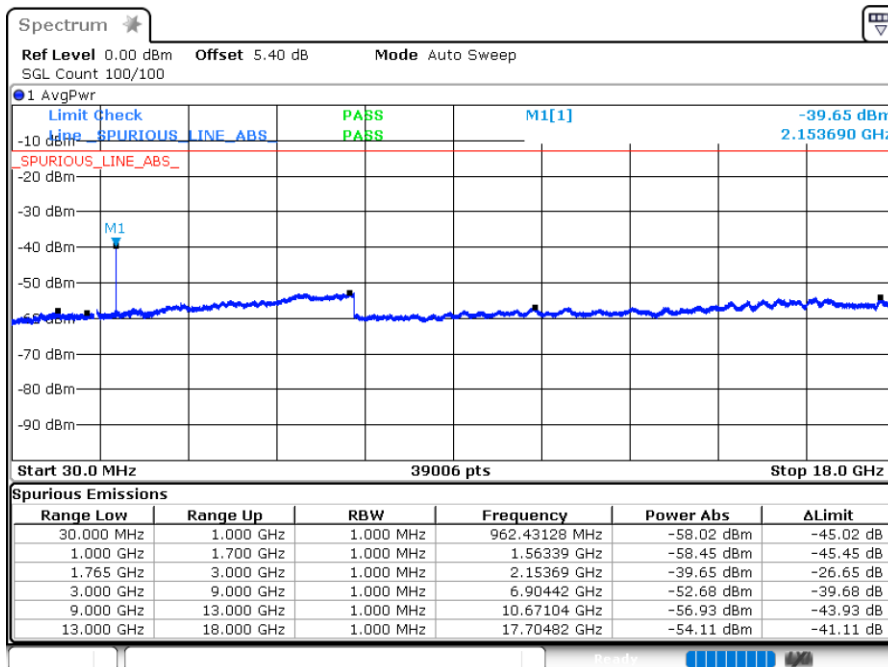
Date: 31.MAY.2023 01:19:05

Middle Channel / QPSK



Date: 30.MAY.2023 23:40:07

Highest Channel / QPSK

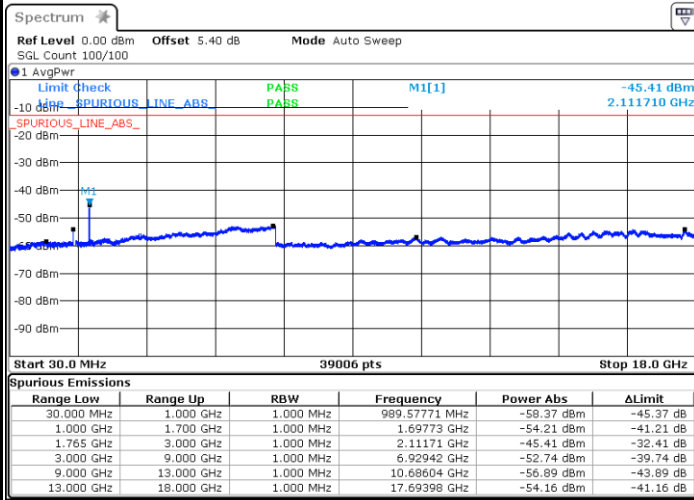


Date: 30.MAY.2023 23:42:08



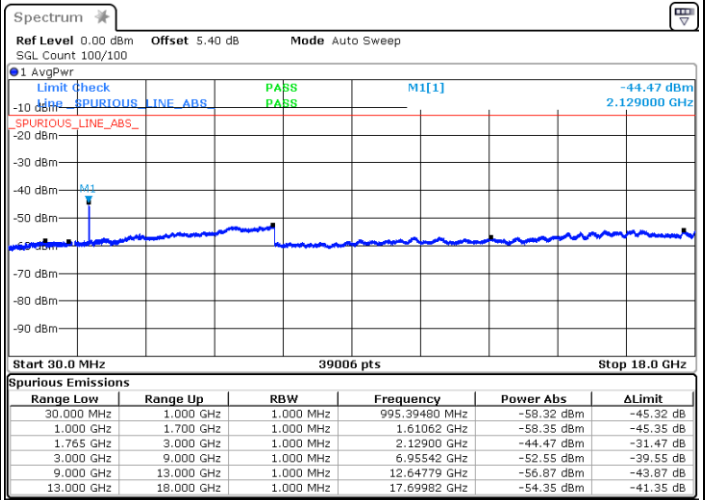
LTE Band 4 / 15MHz

Lowest Channel / QPSK



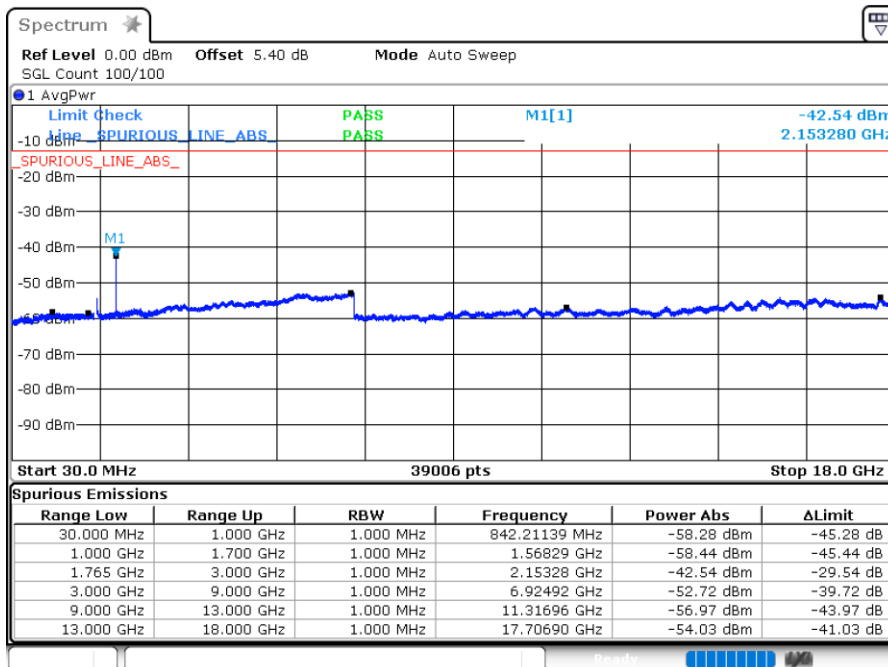
Date: 31.MAY.2023 01:16:29

Middle Channel / QPSK



Date: 31.MAY.2023 01:08:36

Highest Channel / QPSK

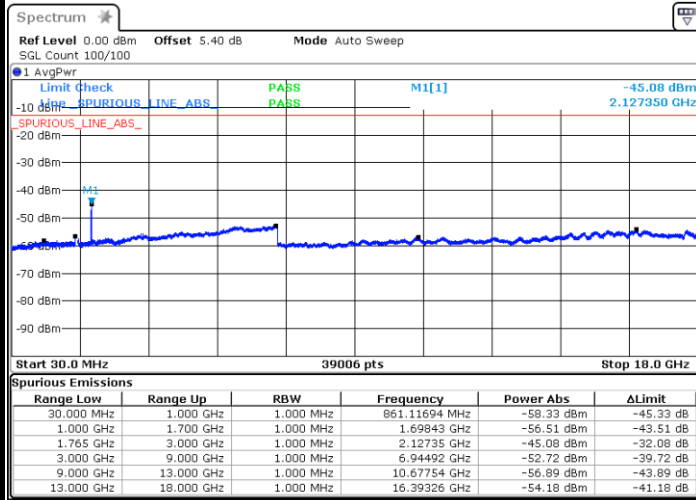


Date: 31.MAY.2023 01:13:31



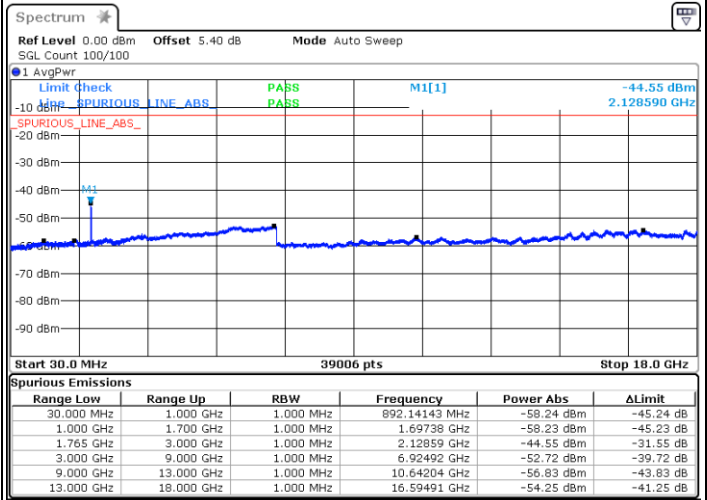
LTE Band 4 / 20MHz

Lowest Channel / QPSK



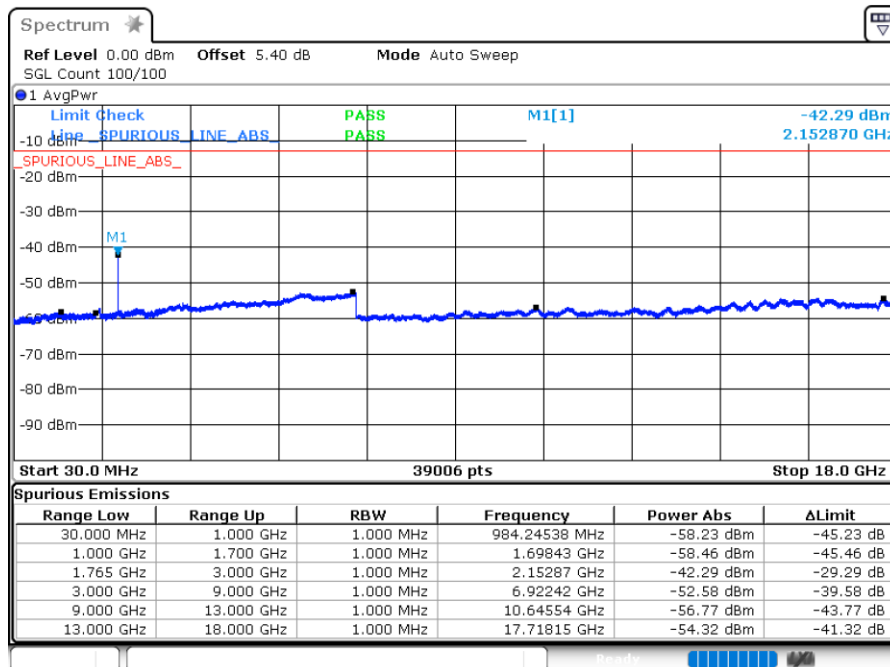
Date: 31.MAY.2023 01:03:28

Middle Channel / QPSK



Date: 31.MAY.2023 00:37:53

Highest Channel / QPSK



Date: 31.MAY.2023 01:05:44

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0024	

Note:

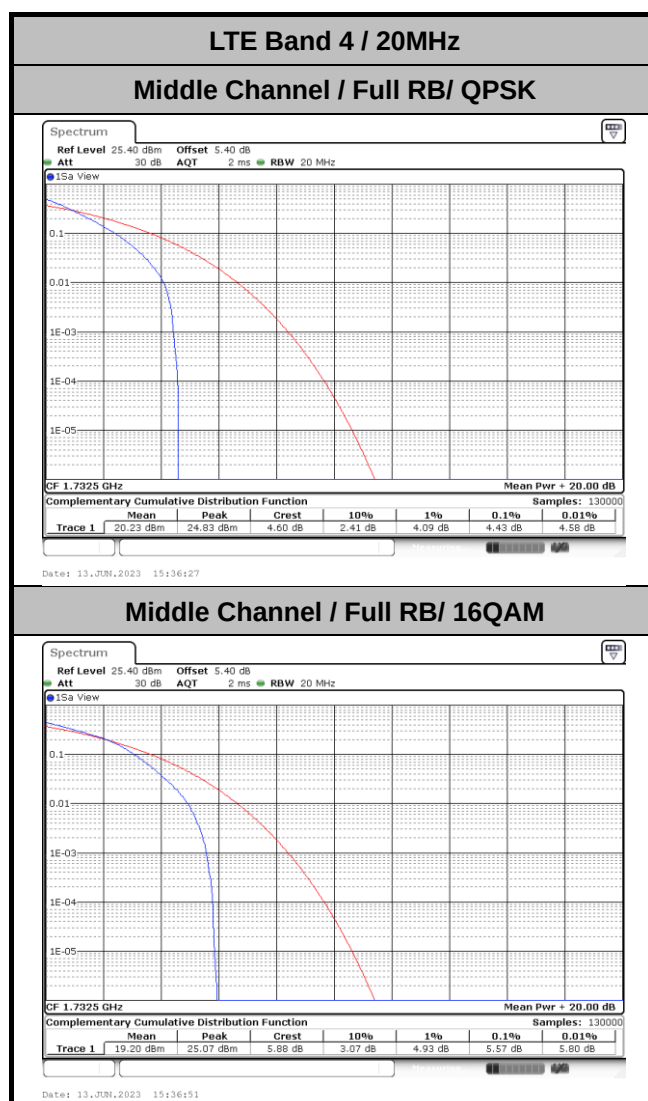
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

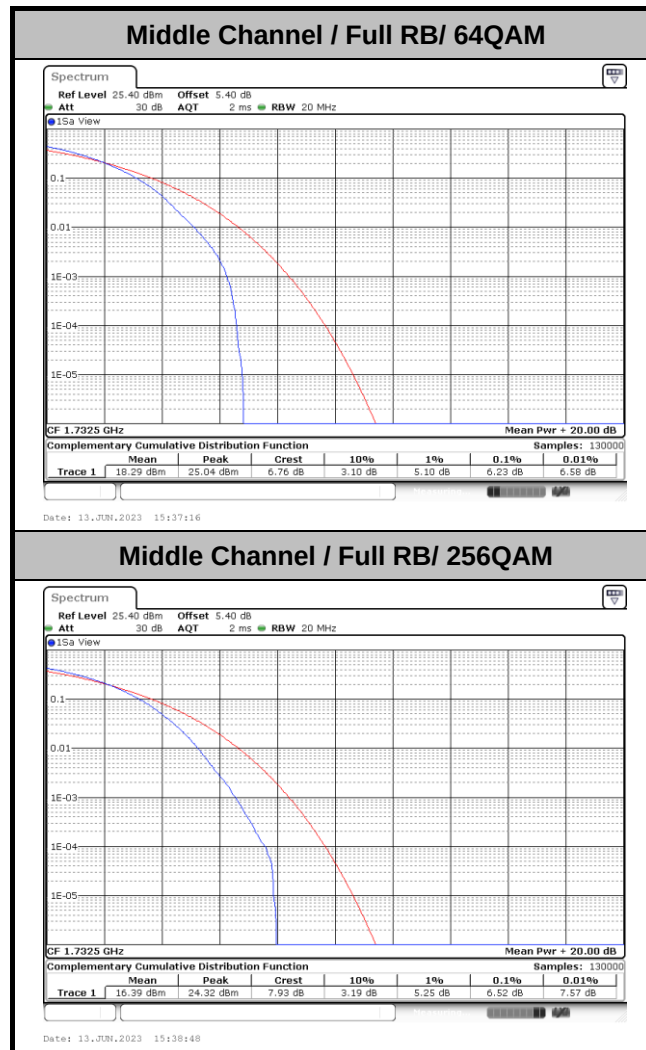


LTE Band 4 for Other PA

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.43	5.57	6.23	6.52	PASS





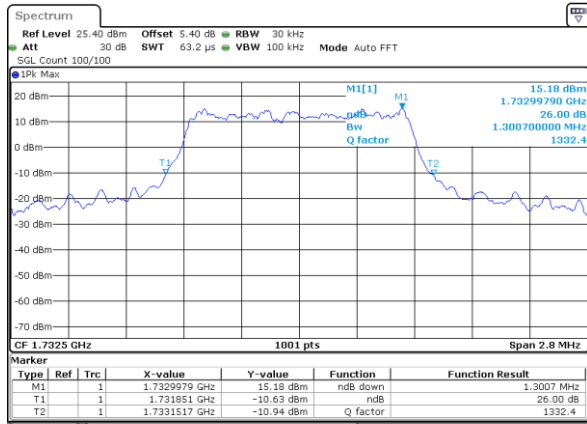
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.30	1.34
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.08	3.12
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.94	4.85
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.91	10.21
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.36	14.21
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.38	19.18



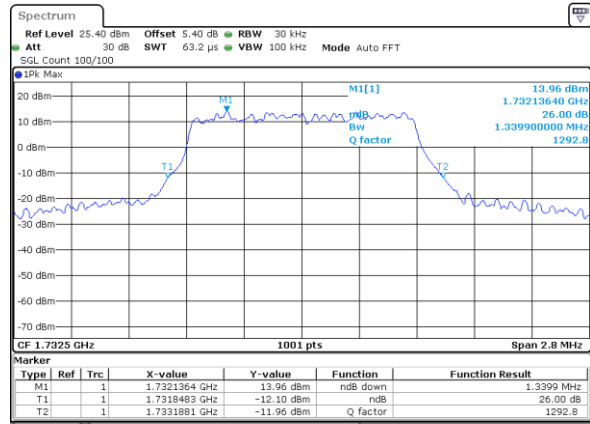
LTE Band 4

Middle Channel / 1.4MHz / QPSK



Date: 13 JUN 2023 15:35:17

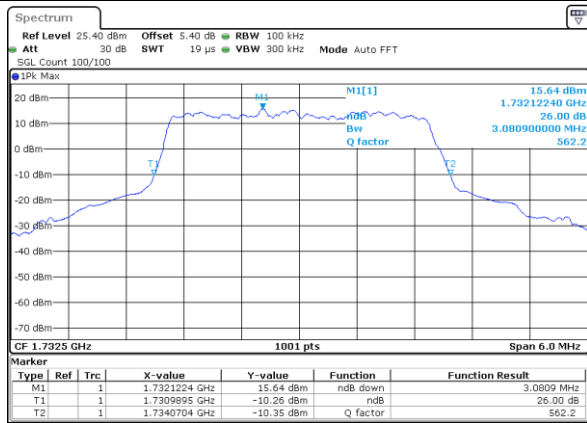
Middle Channel / 1.4MHz / 16QAM



Date: 13 JUN 2023 15:35:19

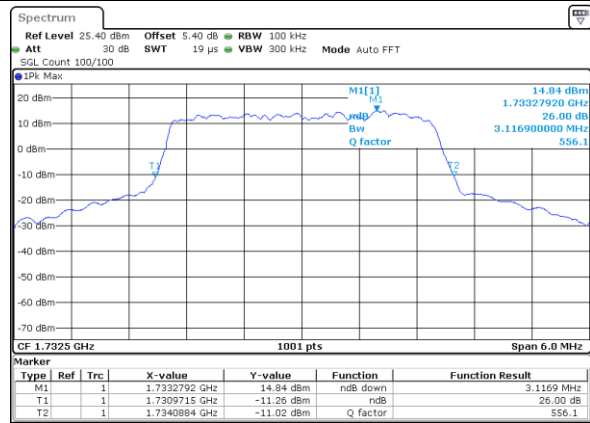
LTE Band 4

Middle Channel / 3MHz / QPSK



Date: 13 JUN 2023 15:33:01

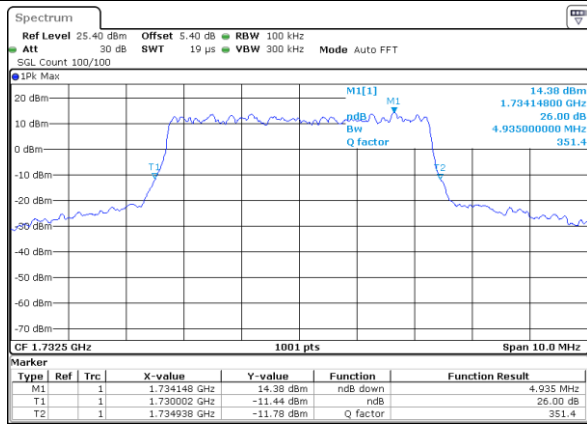
Middle Channel / 3MHz / 16QAM



Date: 13 JUN 2023 15:33:24

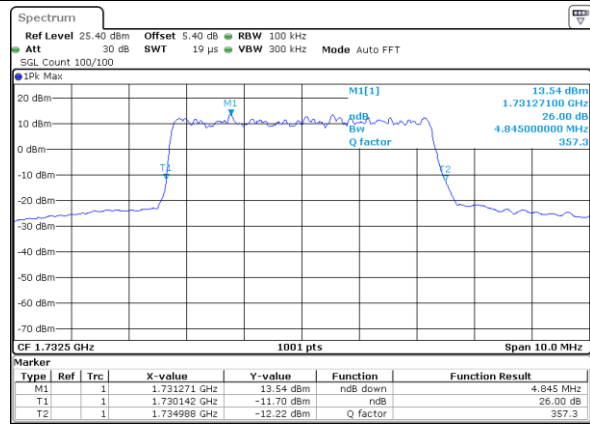
LTE Band 4

Middle Channel / 5MHz / QPSK



Date: 13 JUN 2023 15:30:35

Middle Channel / 5MHz / 16QAM

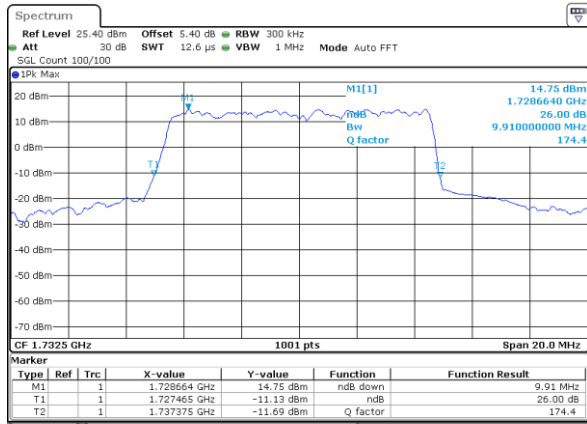


Date: 13 JUN 2023 15:30:58



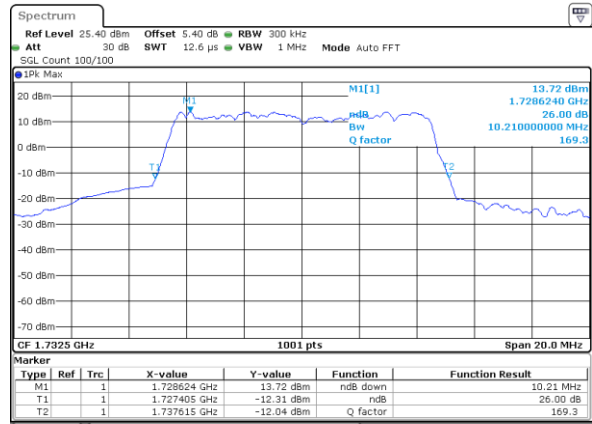
LTE Band 4

Middle Channel / 10MHz / QPSK



Date: 13 JUN 2023 15:29:03

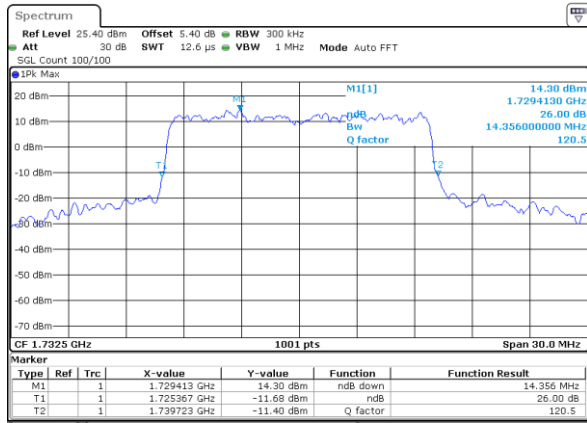
Middle Channel / 10MHz / 16QAM



Date: 13 JUN 2023 15:29:26

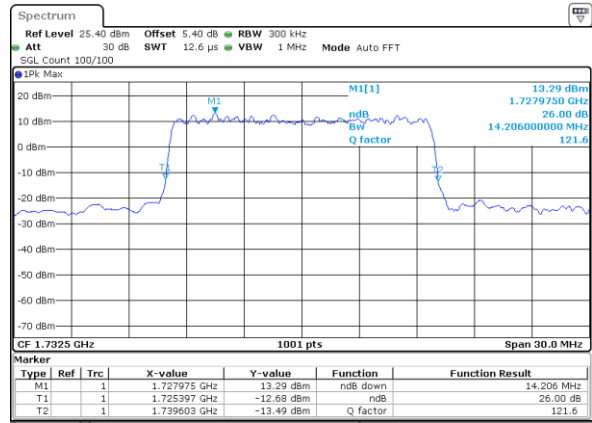
LTE Band 4

Middle Channel / 15MHz / QPSK



Date: 13 JUN 2023 15:27:30

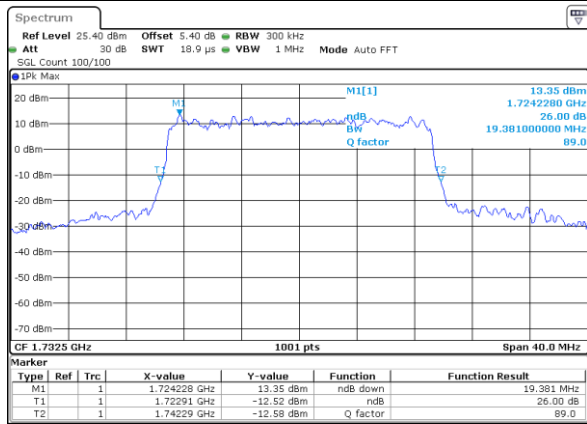
Middle Channel / 15MHz / 16QAM



Date: 13 JUN 2023 15:27:53

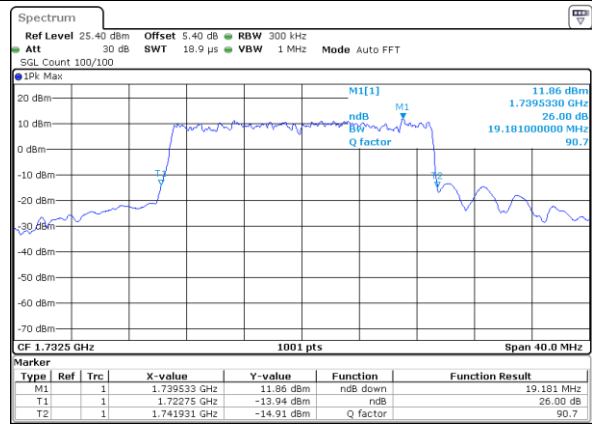
LTE Band 4

Middle Channel / 20MHz / QPSK



Date: 13 JUN 2023 15:25:35

Middle Channel / 20MHz / 16QAM



Date: 13 JUN 2023 15:26:44

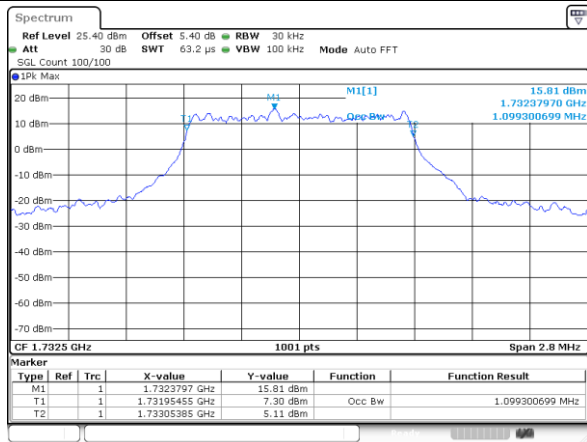
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.73	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.53	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.11
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.52	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.98

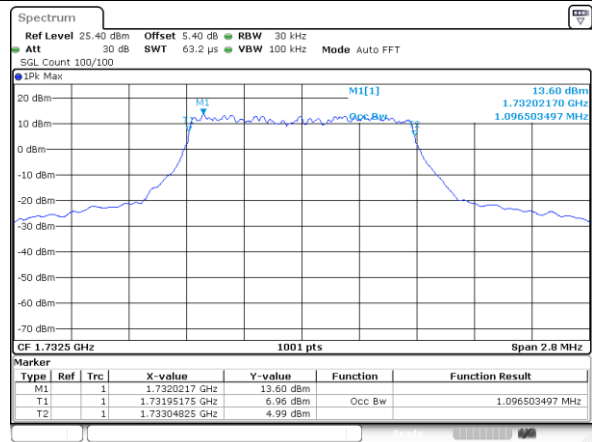


LTE Band 4

Middle Channel / 1.4MHz / QPSK

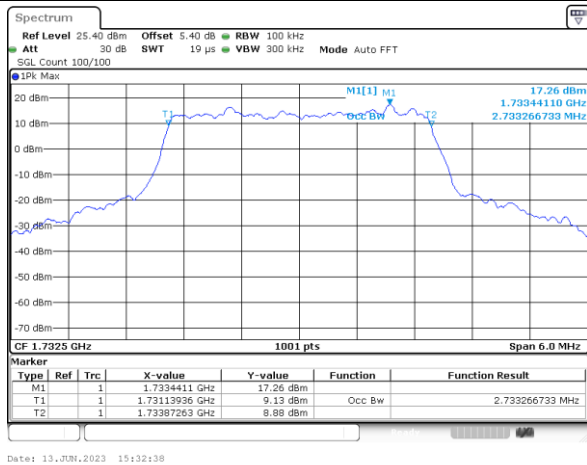


Middle Channel / 1.4MHz / 16QAM

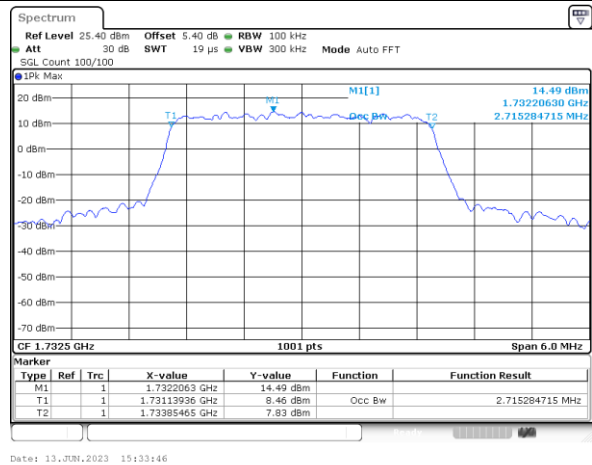


LTE Band 4

Middle Channel / 3MHz / QPSK

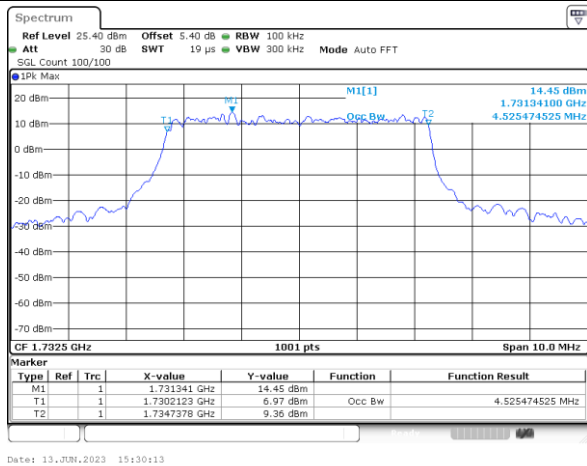


Middle Channel / 3MHz / 16QAM

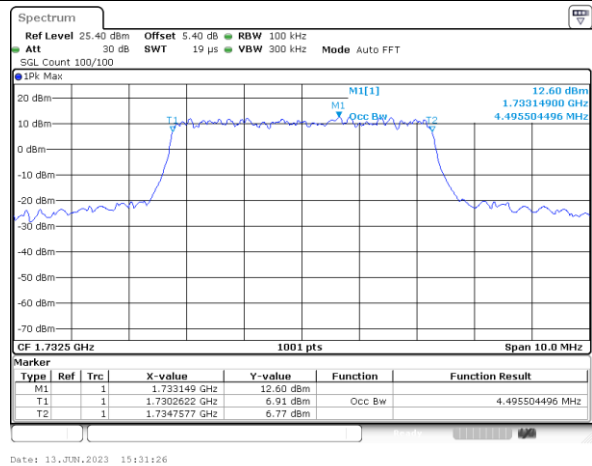


LTE Band 4

Middle Channel / 5MHz / QPSK



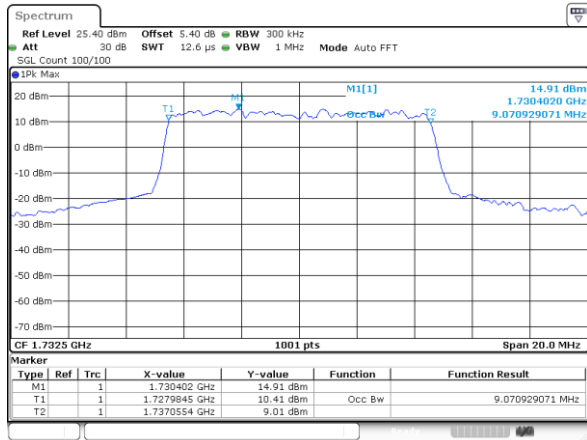
Middle Channel / 5MHz / 16QAM



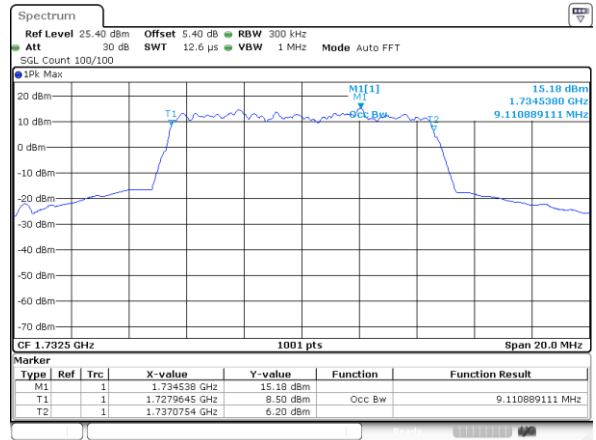


LTE Band 4

Middle Channel / 10MHz / QPSK

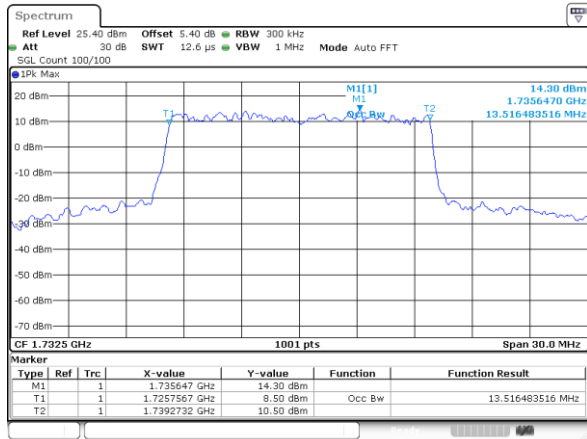


Middle Channel / 10MHz / 16QAM

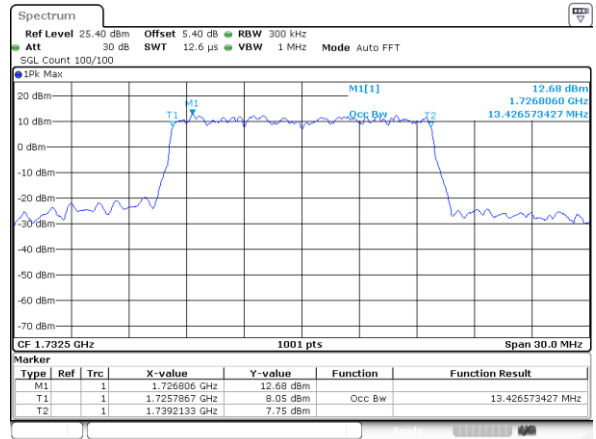


LTE Band 4

Middle Channel / 15MHz / QPSK

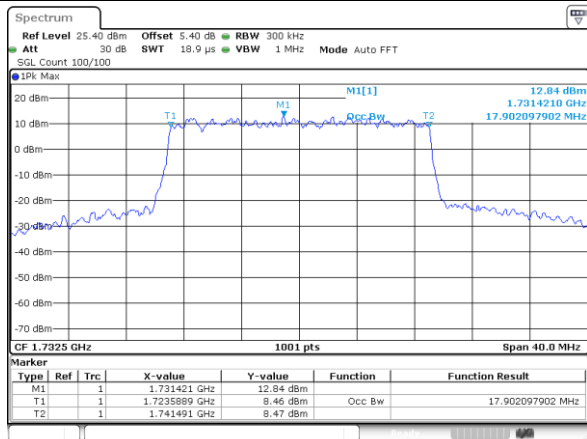


Middle Channel / 15MHz / 16QAM

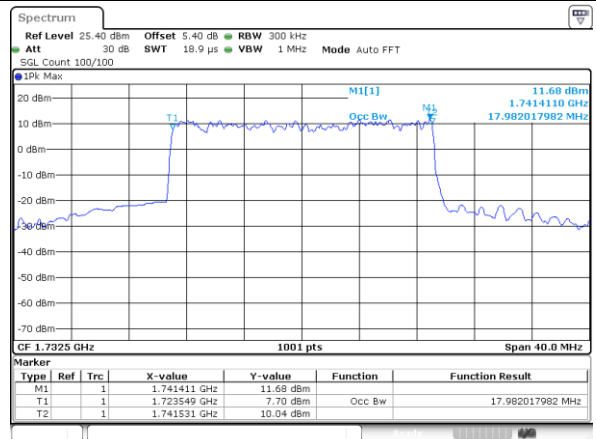


LTE Band 4

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

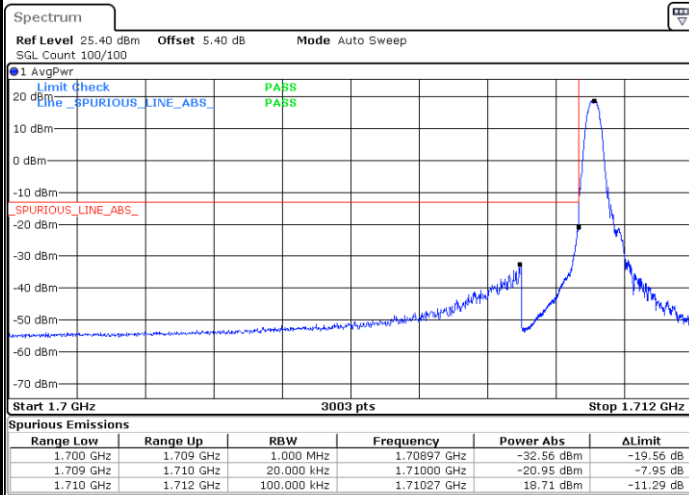




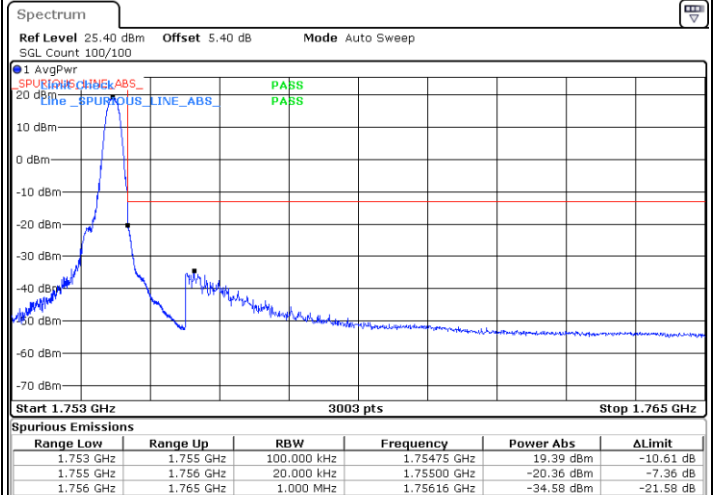
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

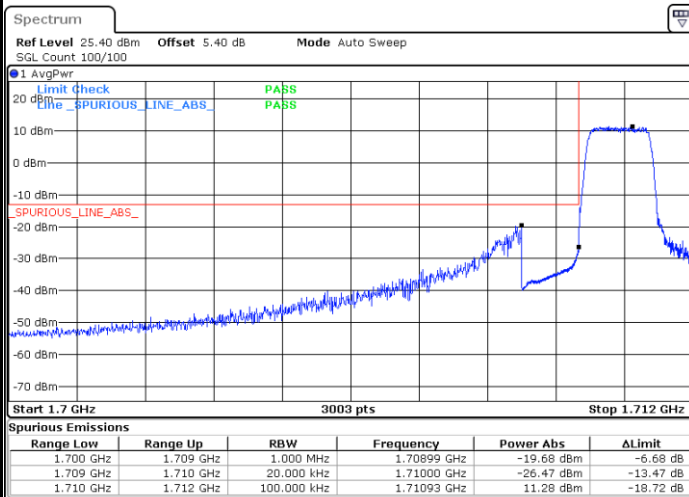
Lowest Band Edge / 1RB



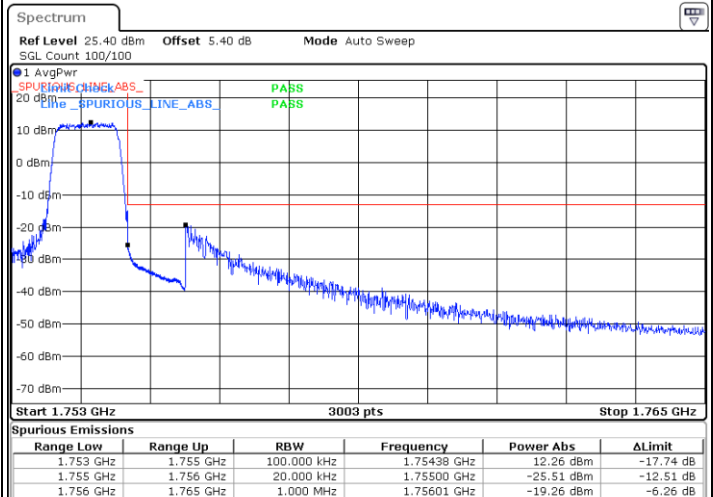
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



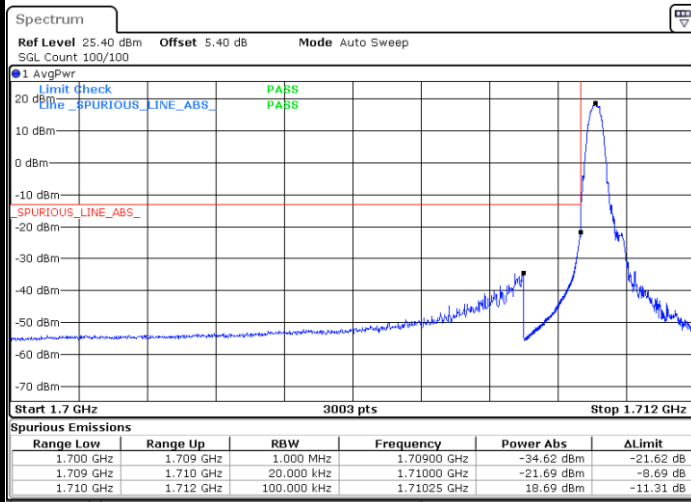
Highest Band Edge / Full RB



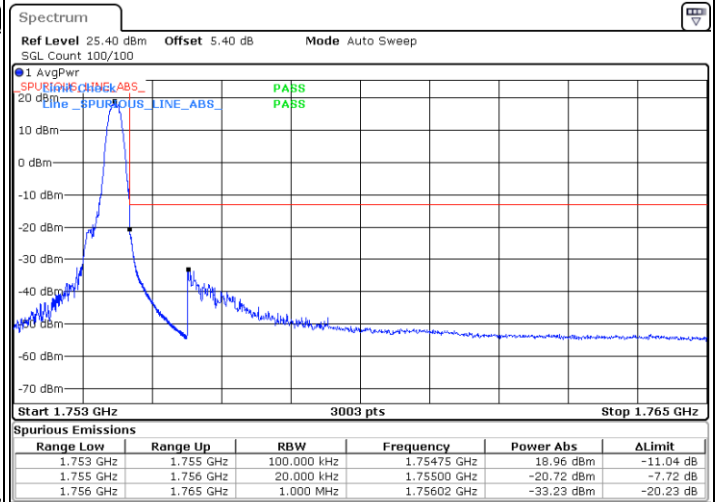


LTE Band 4 / 1.4MHz / 16QAM

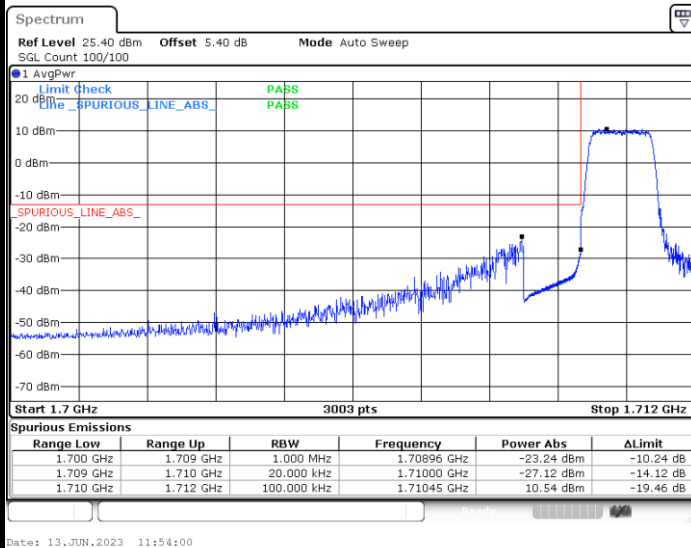
Lowest Band Edge / 1 RB



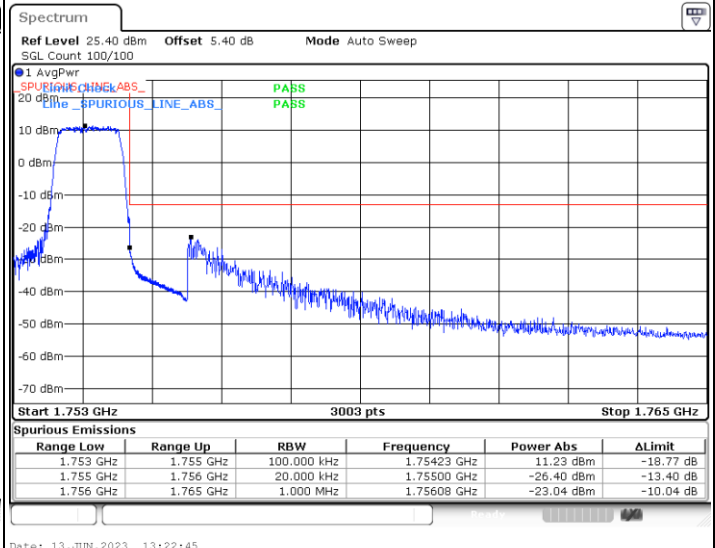
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



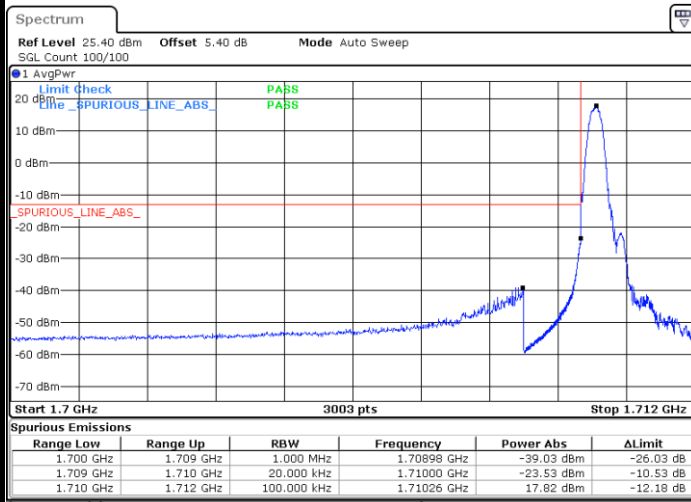
Highest Band Edge / Full RB



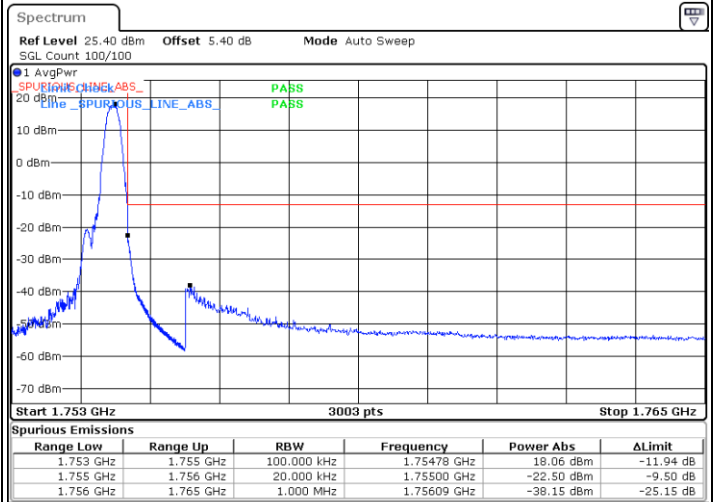


LTE Band 4 / 1.4MHz / 64QAM

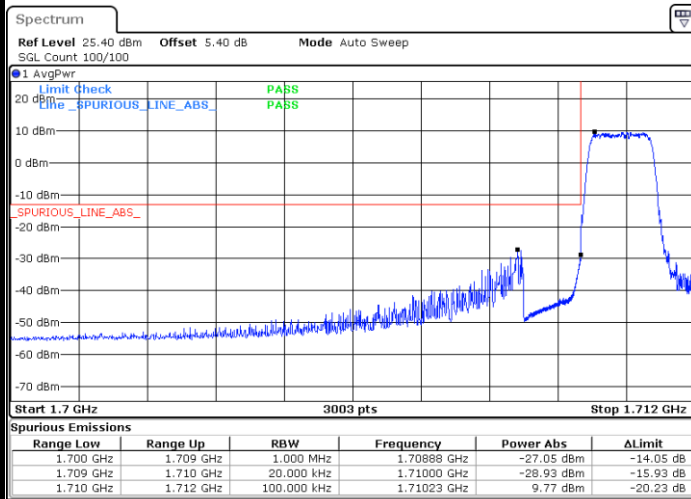
Lowest Band Edge / 1 RB



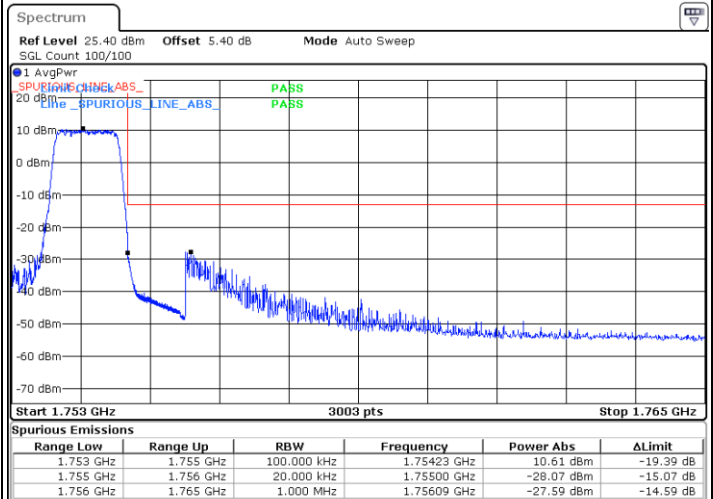
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



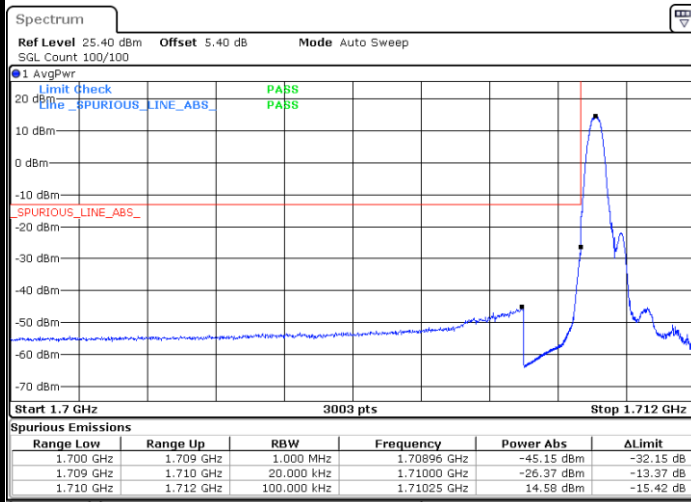
Highest Band Edge / Full RB



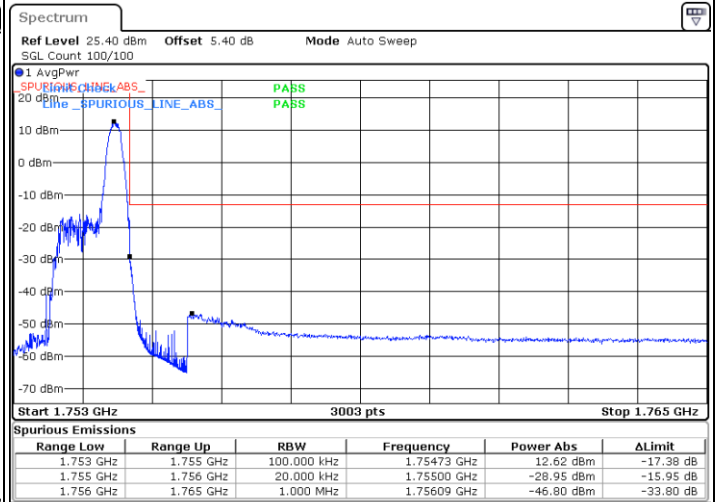


LTE Band 4 / 1.4MHz / 256QAM

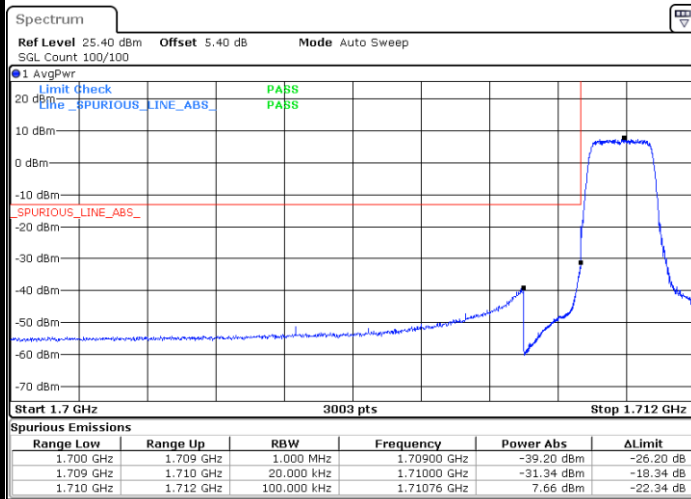
Lowest Band Edge / 1 RB



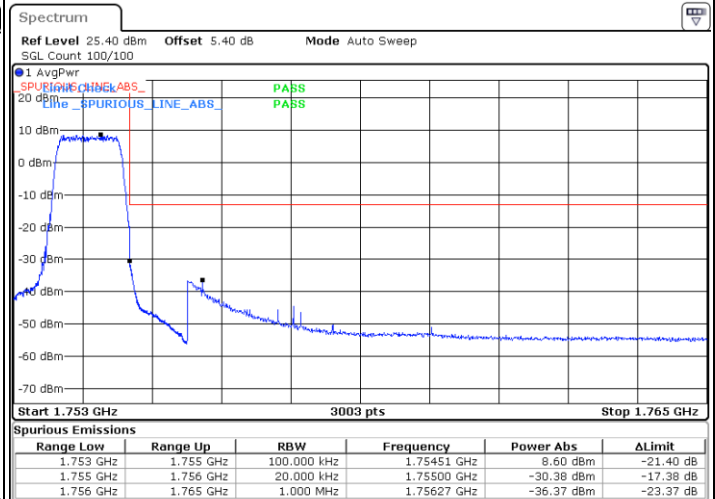
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



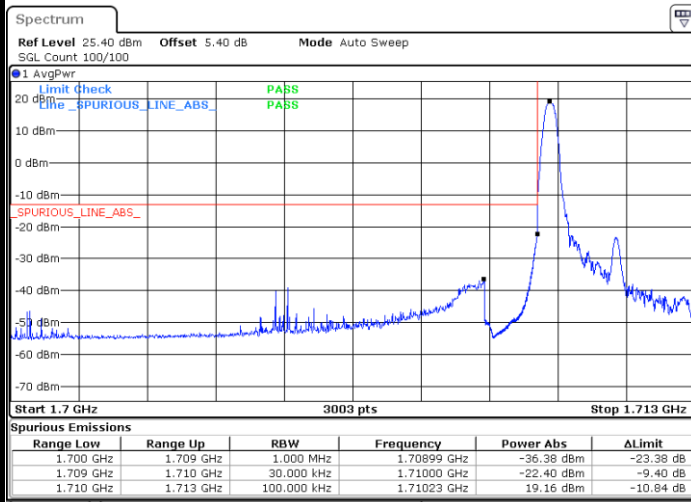
Highest Band Edge / Full RB



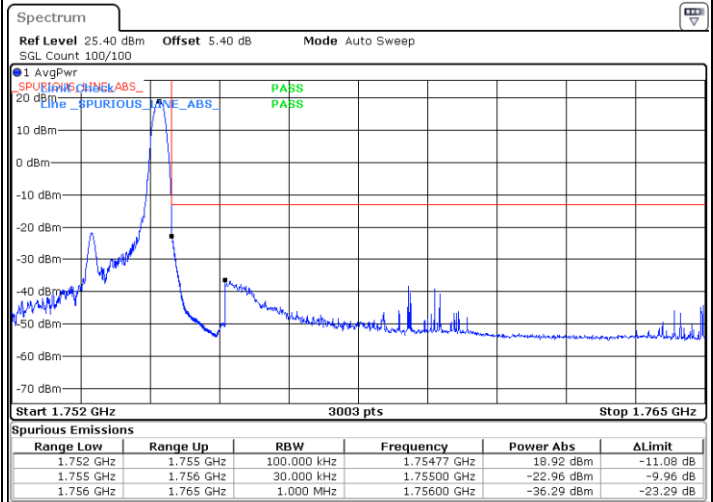


LTE Band 4 / 3MHz / QPSK

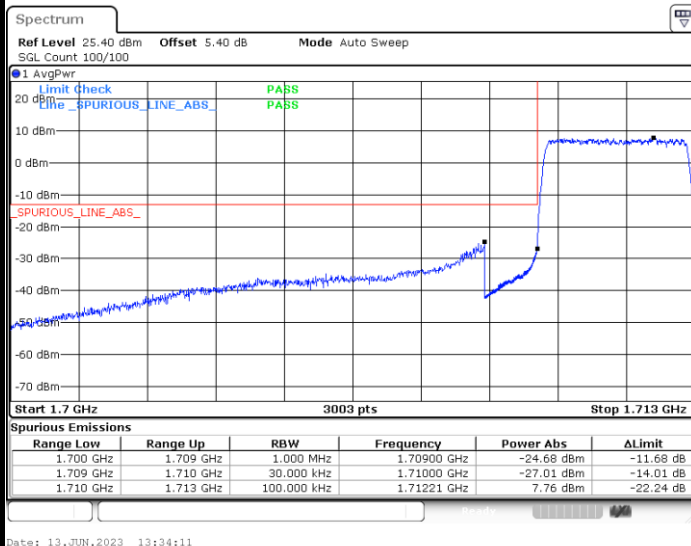
Lowest Band Edge / 1RB



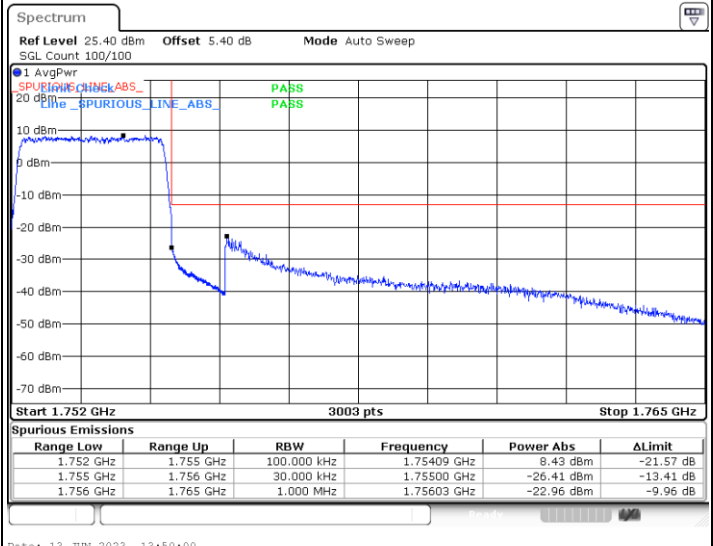
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



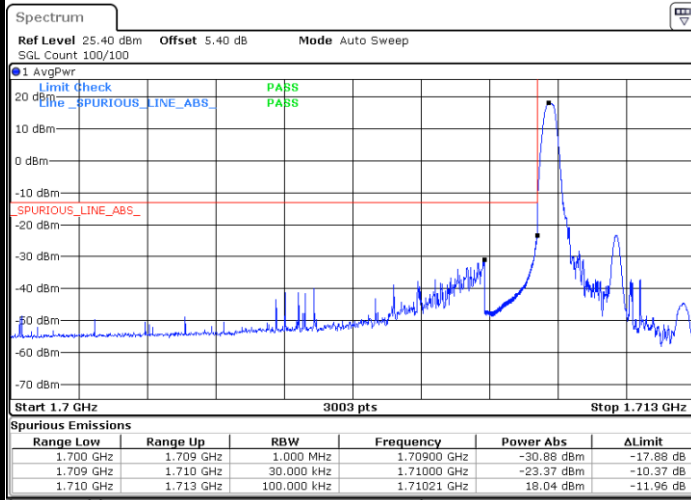
Highest Band Edge / Full RB



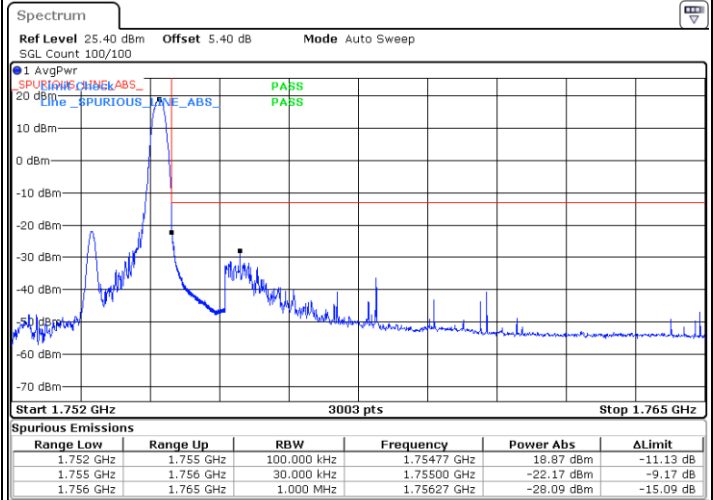


LTE Band 4 / 3MHz / 16QAM

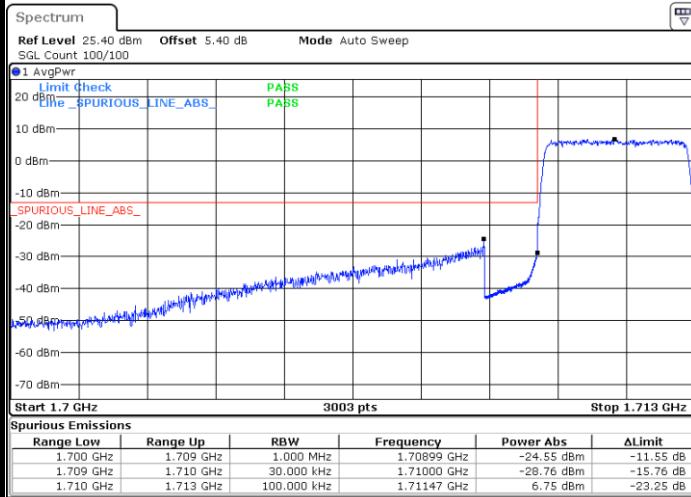
Lowest Band Edge / 1 RB



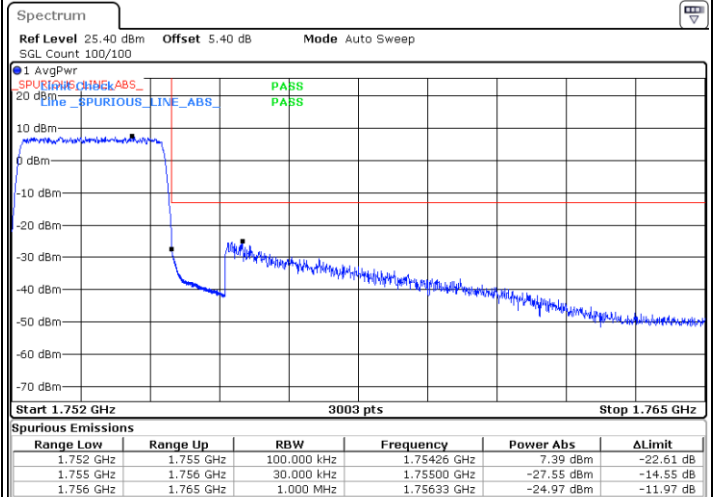
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



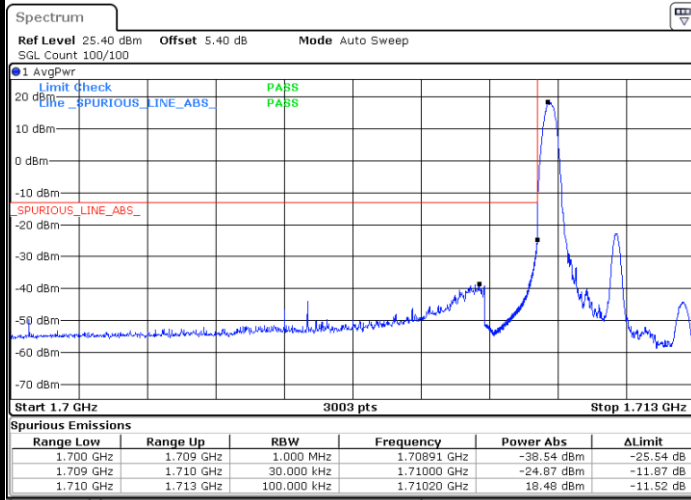
Highest Band Edge / Full RB



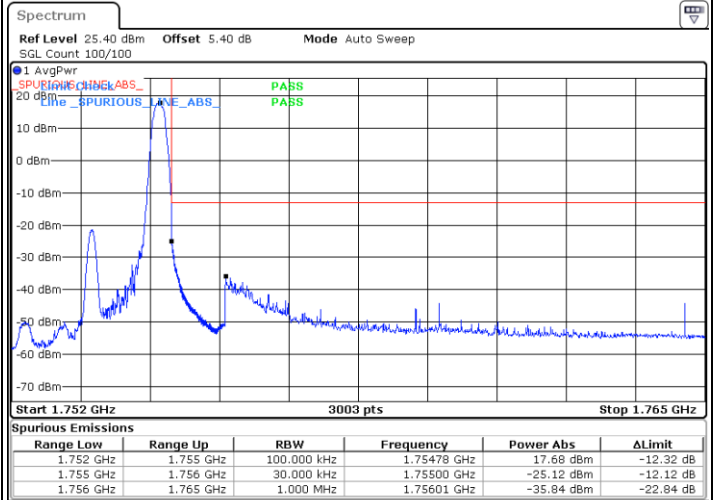


LTE Band 4 / 3MHz / 64QAM

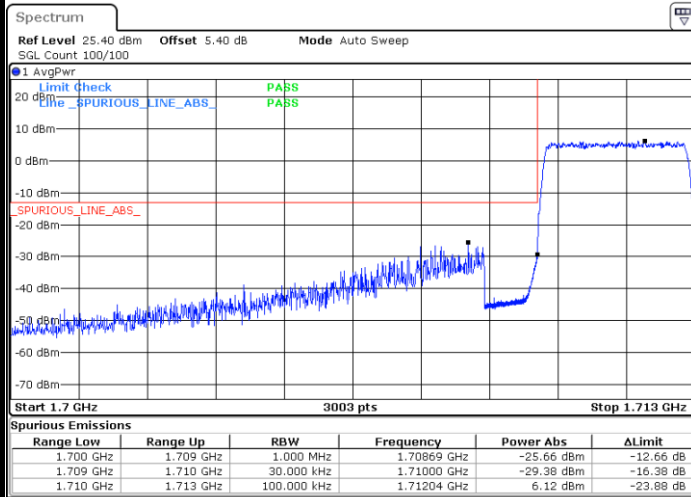
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

