



Conducted Spurious Emission

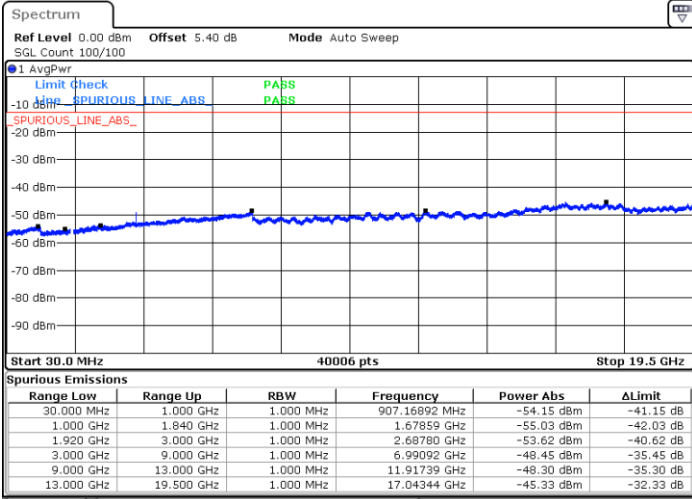




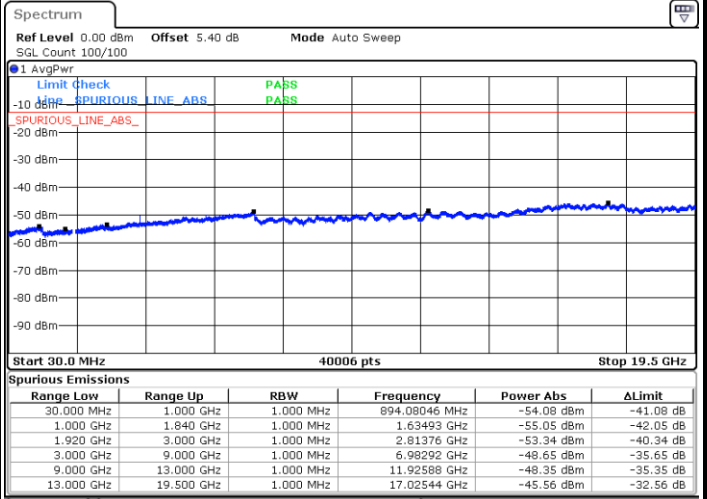
LTE Band 2 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

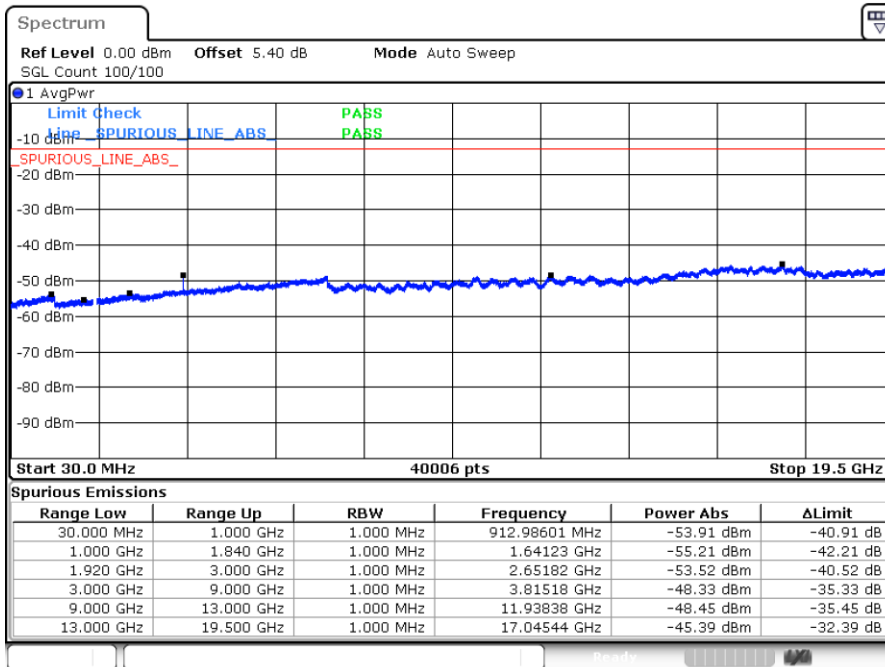


Date: 29 JUN 2023 00:04:44



Date: 29 JUN 2023 00:06:27

Highest Channel / QPSK



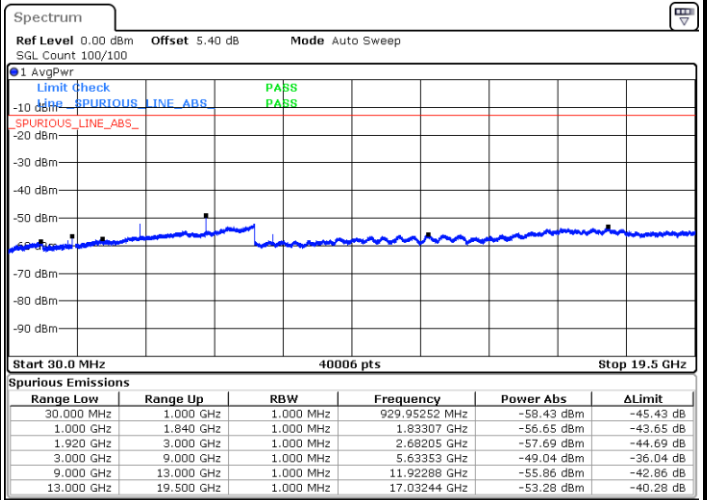
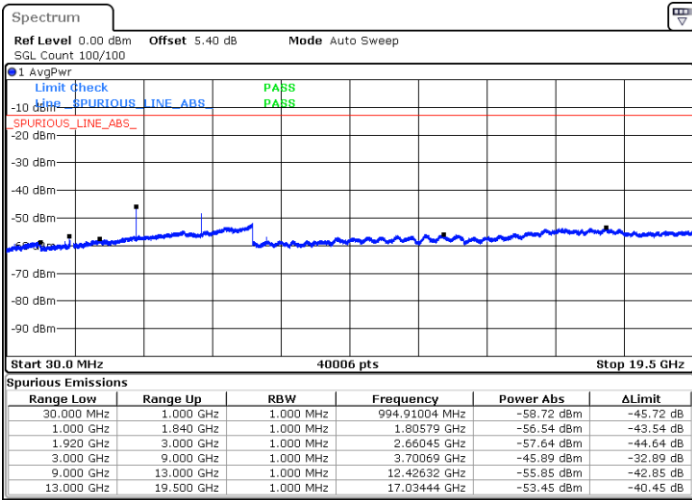
Date: 29 JUN 2023 00:08:10



LTE Band 2 / 5MHz

Lowest Channel / QPSK

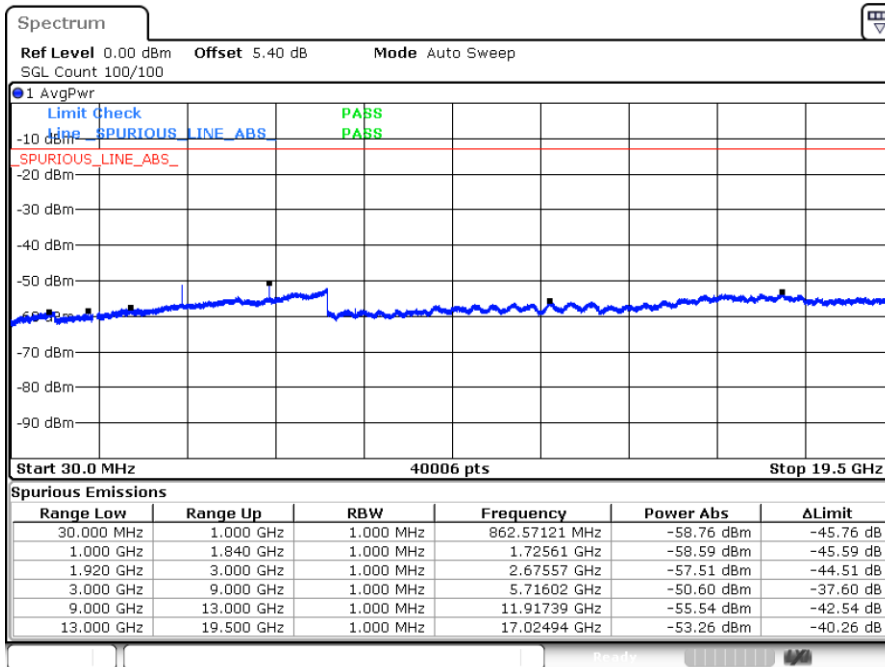
Middle Channel / QPSK



Date: 29 JUN 2023 00:09:53

Date: 29 JUN 2023 00:11:36

Highest Channel / QPSK



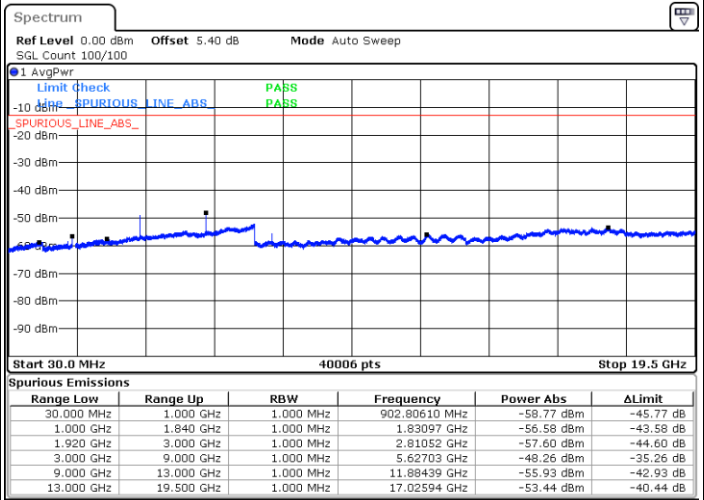
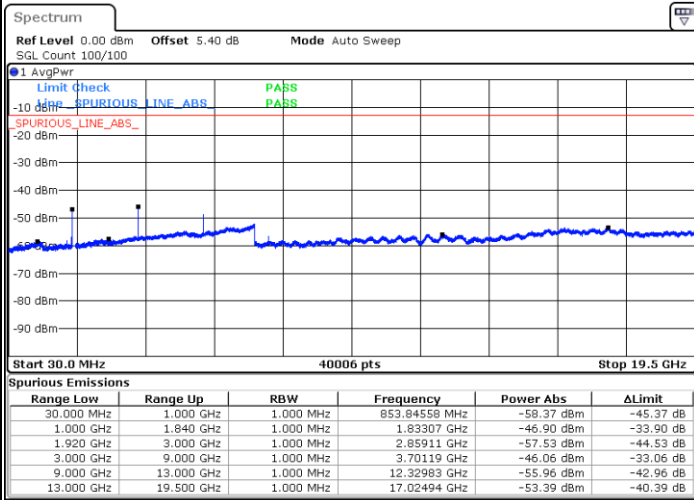
Date: 29 JUN 2023 00:13:19



LTE Band 2 / 10MHz

Lowest Channel / QPSK

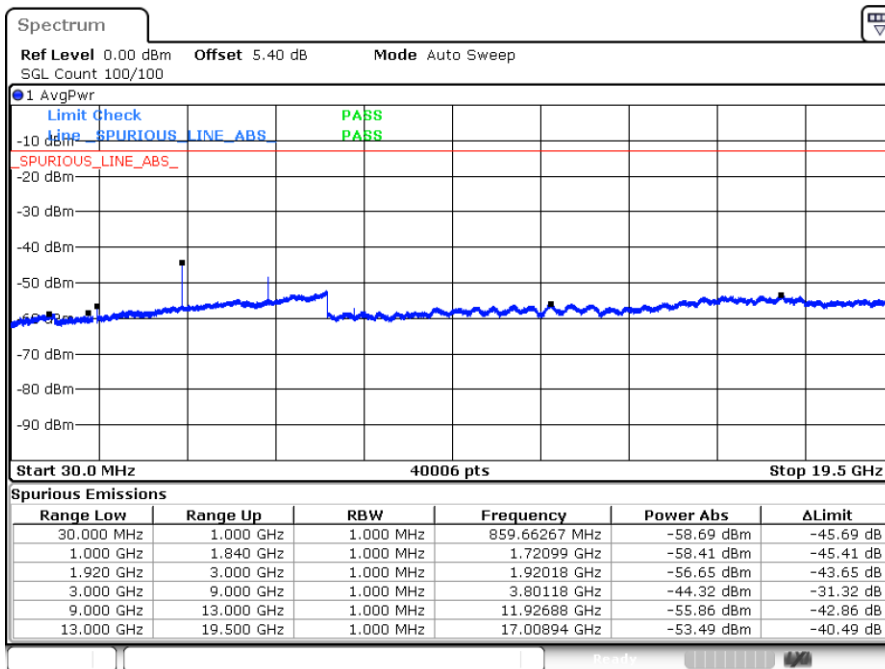
Middle Channel / QPSK



Date: 29 JUN 2023 00:15:03

Date: 29 JUN 2023 00:16:45

Highest Channel / QPSK

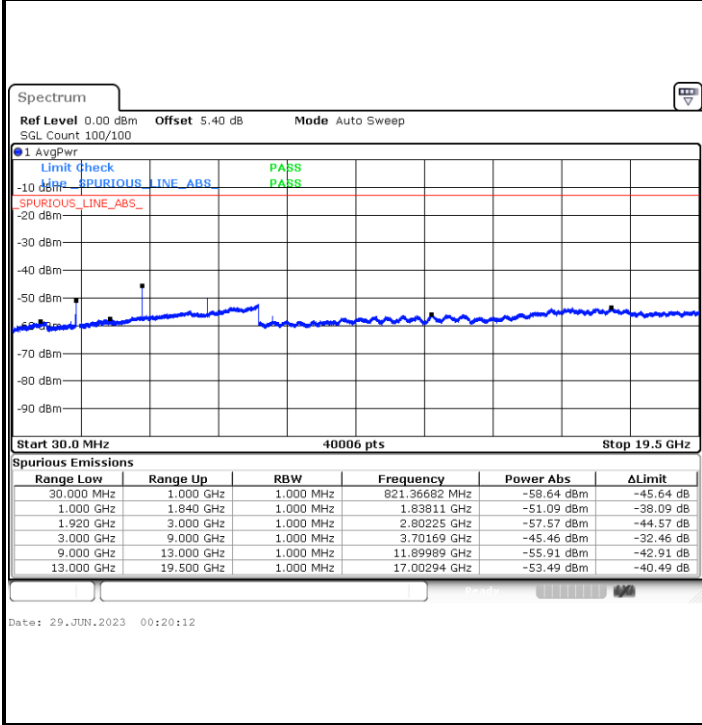


Date: 29 JUN 2023 00:18:28

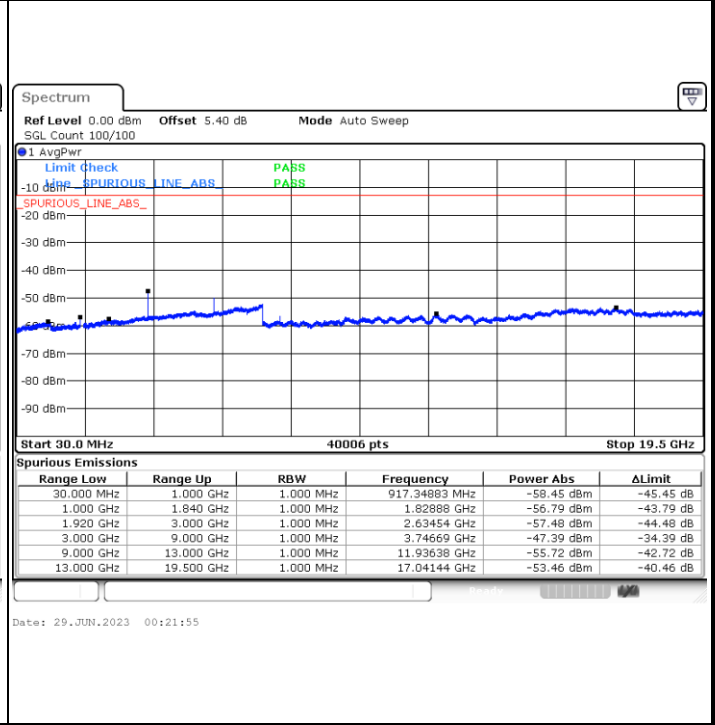


LTE Band 2 / 15MHz

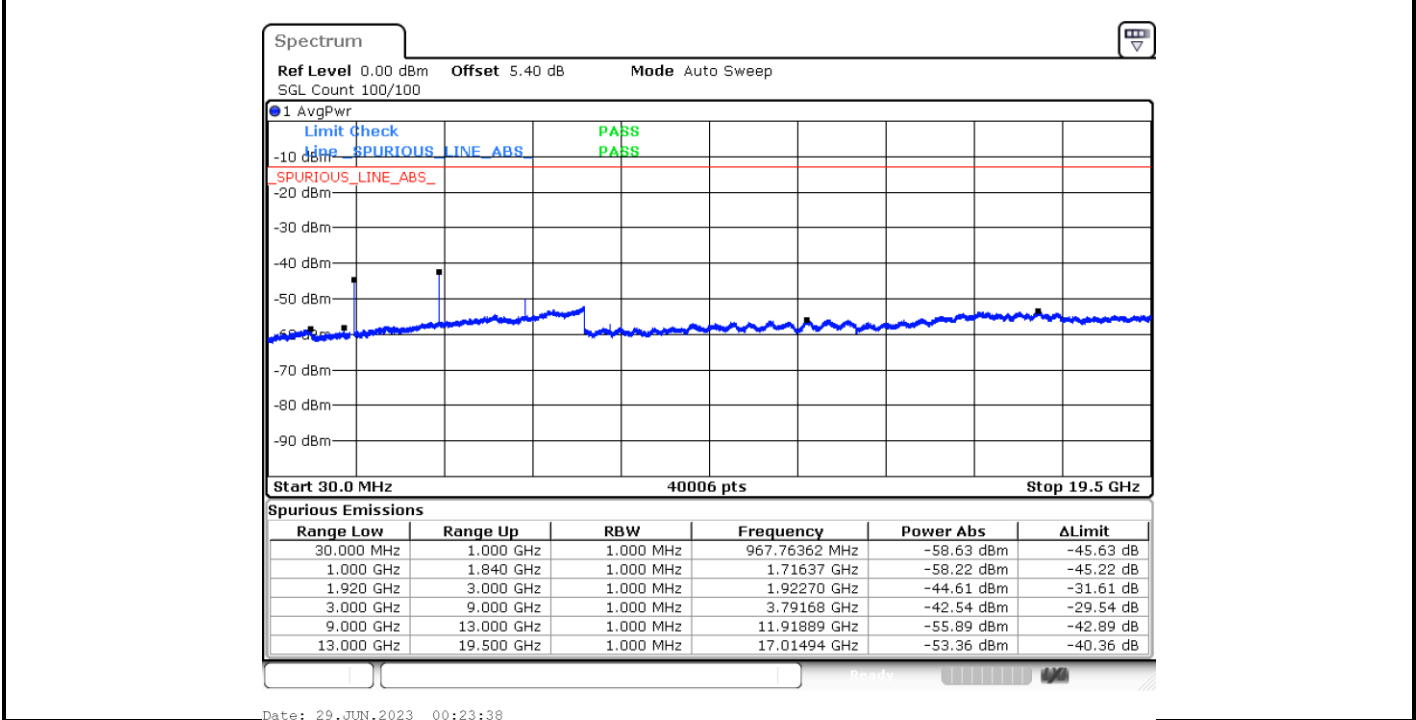
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

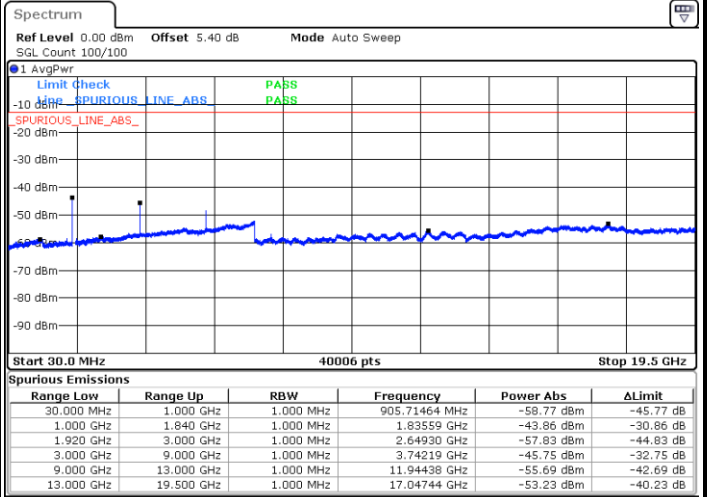
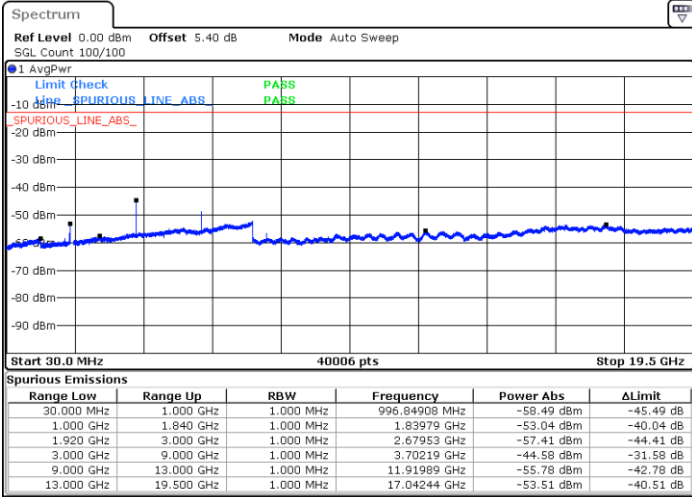




LTE Band 2 / 20MHz

Lowest Channel / QPSK

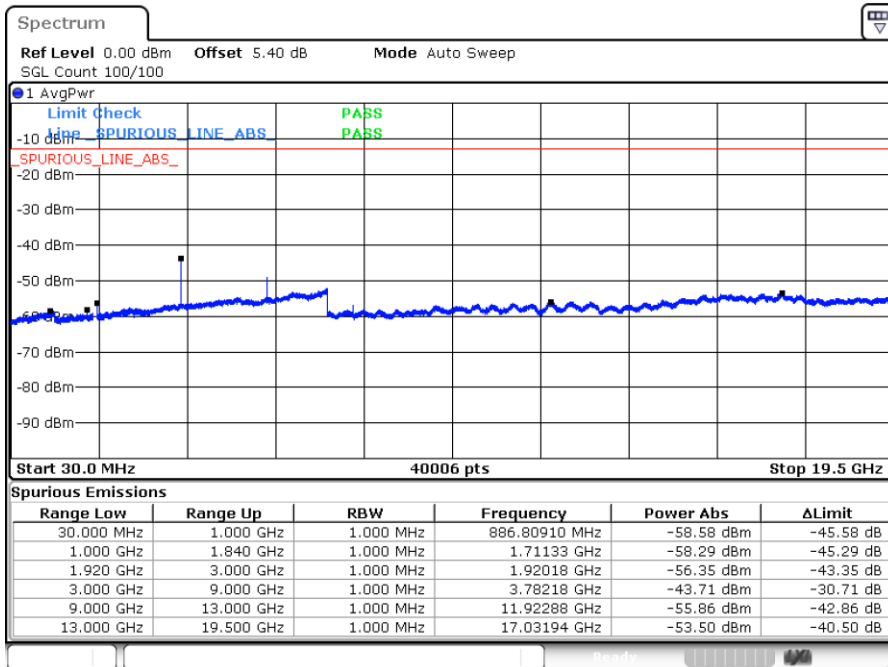
Middle Channel / QPSK



Date: 29 JUN 2023 00:25:21

Date: 29 JUN 2023 00:27:04

Highest Channel / QPSK



Date: 29 JUN 2023 00:28:47



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0063	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0066	
20	Normal Voltage	0.0072	
20	Battery End Point	0.0088	

Note:

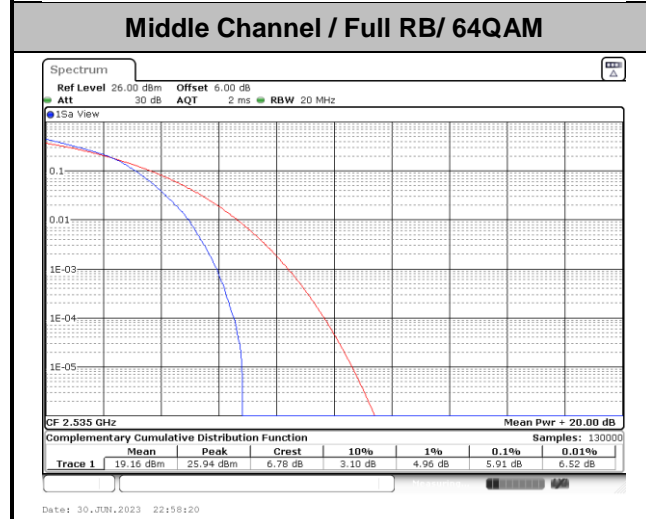
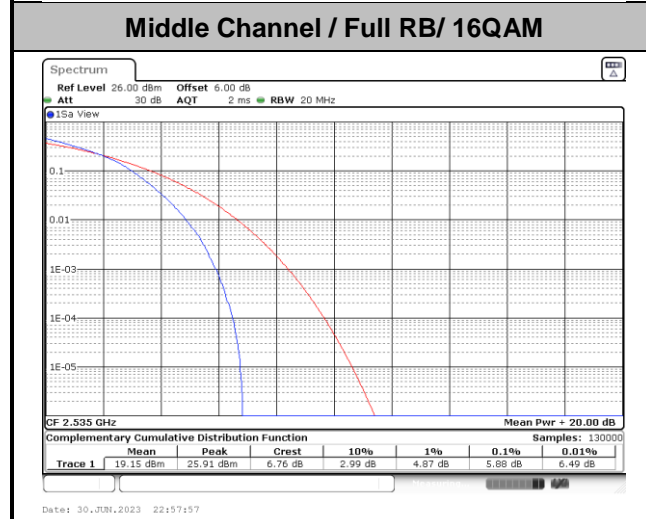
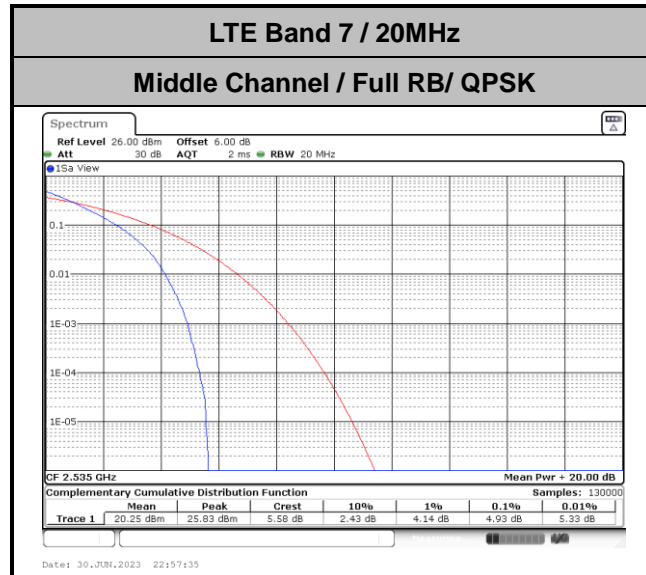
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7 for Other PA

Peak-to-Average Ratio

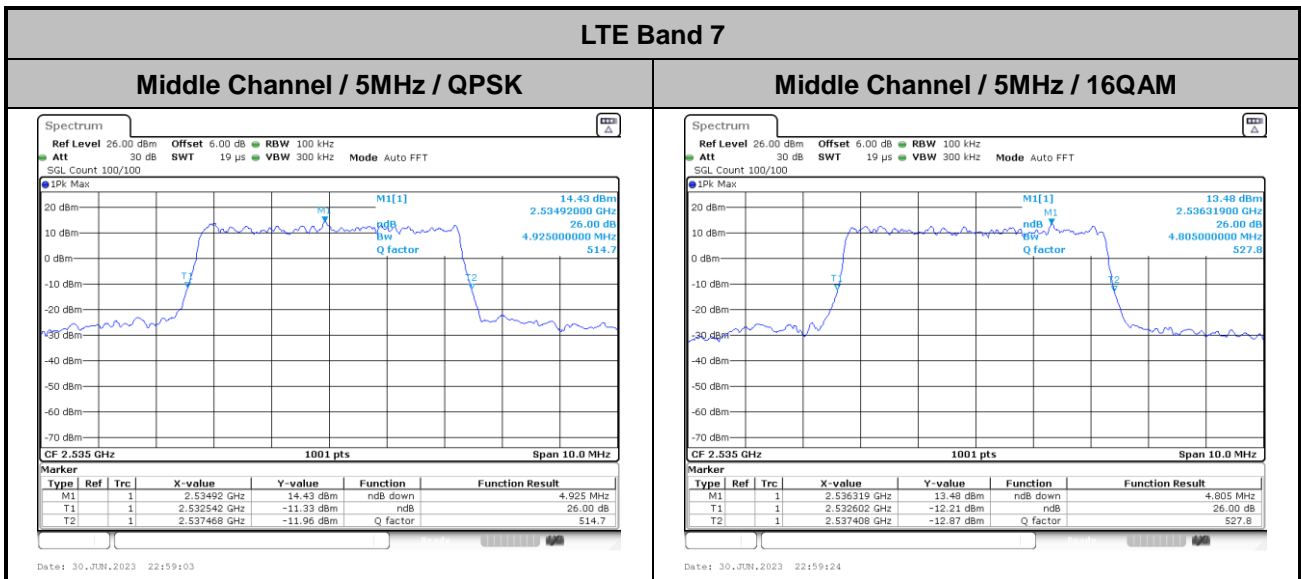
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.88	5.91	PASS





26dB Bandwidth

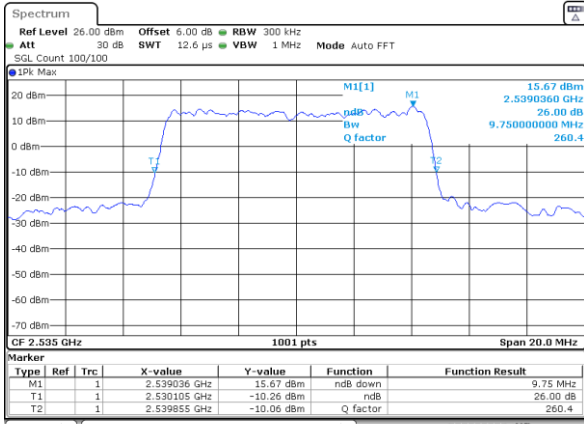
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.93	4.81
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.75	9.77
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.30	14.42
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.78	18.98





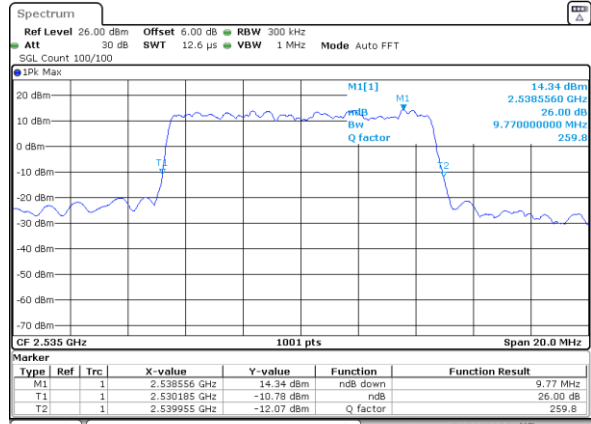
LTE Band 7

Middle Channel / 10MHz / QPSK



Date: 30 JUN 2023 23:00:29

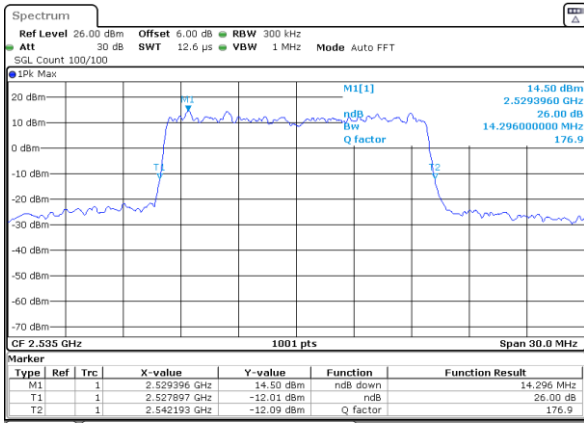
Middle Channel / 10MHz / 16QAM



Date: 30 JUN 2023 23:00:50

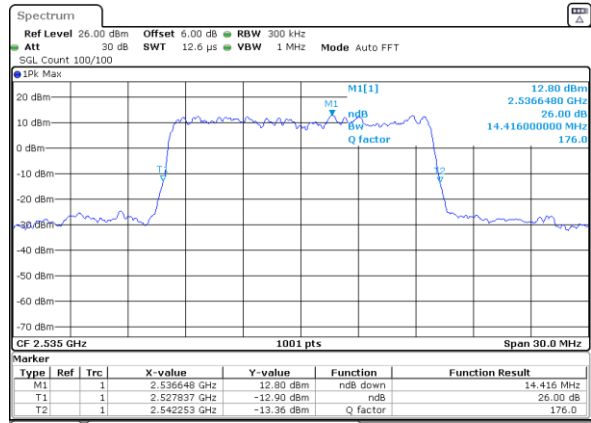
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 30 JUN 2023 23:01:54

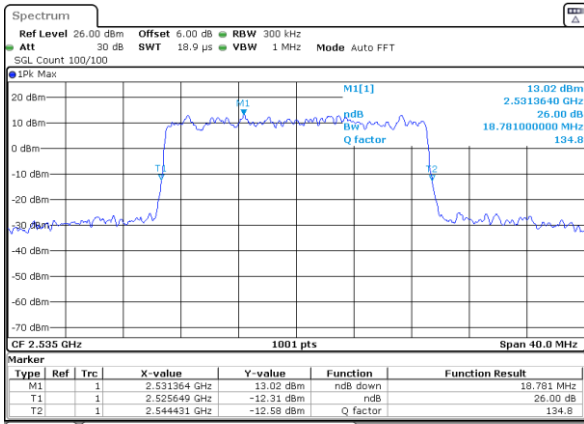
Middle Channel / 15MHz / 16QAM



Date: 30 JUN 2023 23:02:15

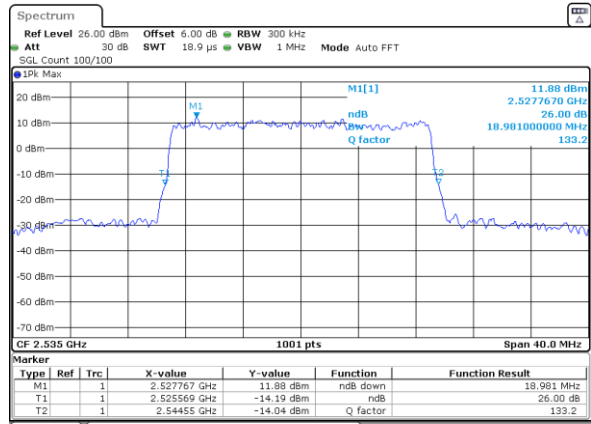
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 30 JUN 2023 22:56:09

Middle Channel / 20MHz / 16QAM

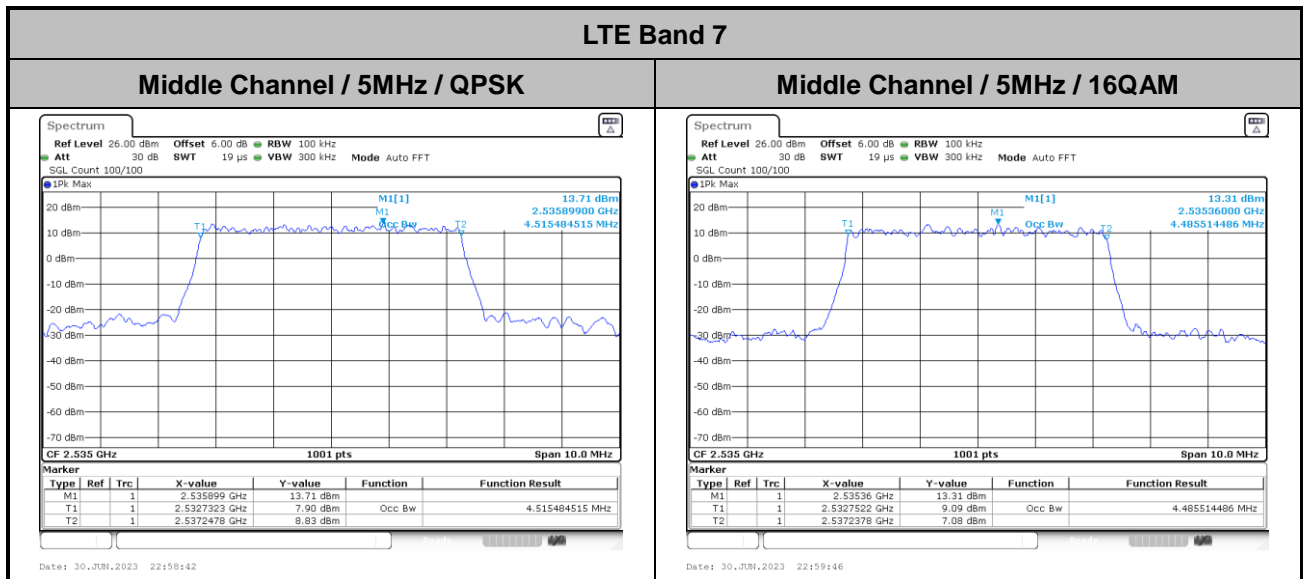


Date: 30 JUN 2023 22:57:12



Occupied Bandwidth

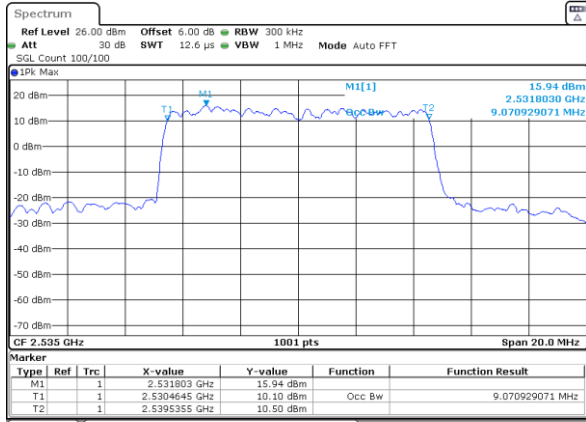
Mode	LTE Band 7 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.52	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.03
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.86	17.86





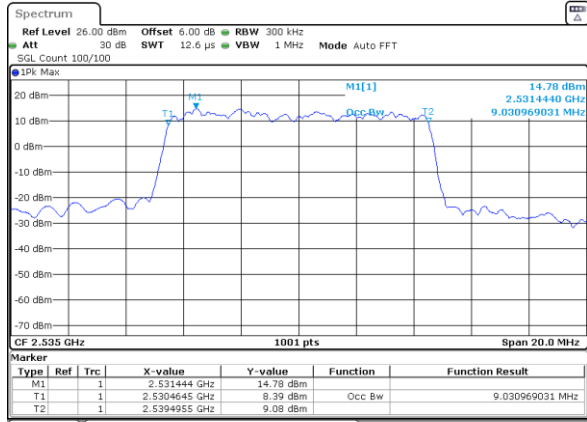
LTE Band 7

Middle Channel / 10MHz / QPSK



Date: 30 JUN 2023 23:00:08

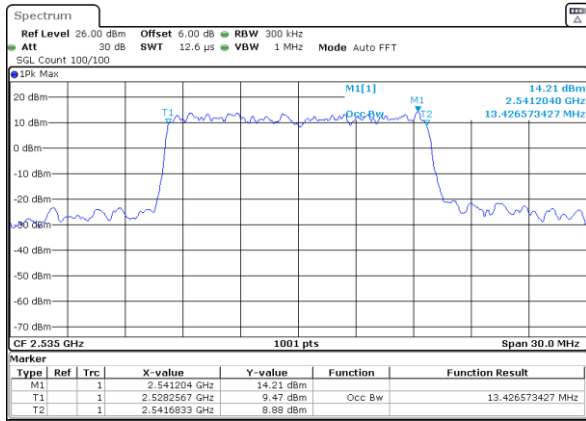
Middle Channel / 10MHz / 16QAM



Date: 30 JUN 2023 23:01:11

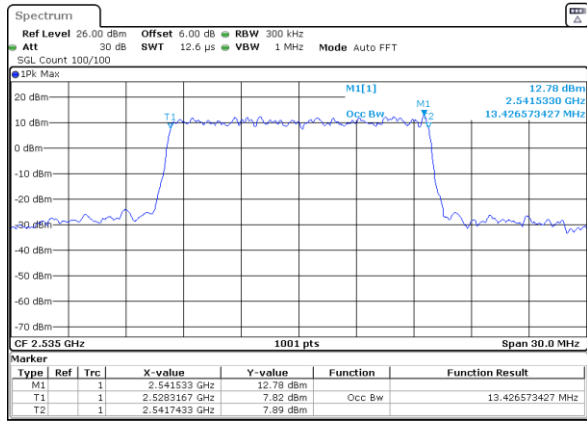
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 30 JUN 2023 23:01:33

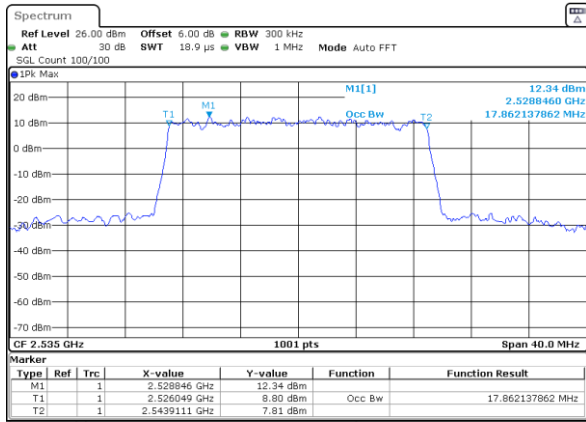
Middle Channel / 15MHz / 16QAM



Date: 30 JUN 2023 23:02:37

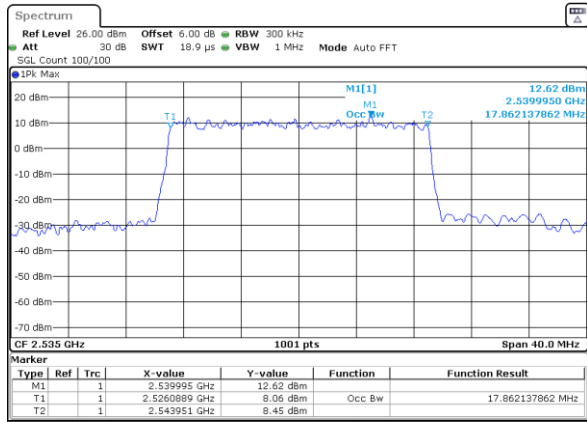
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 30 JUN 2023 22:56:30

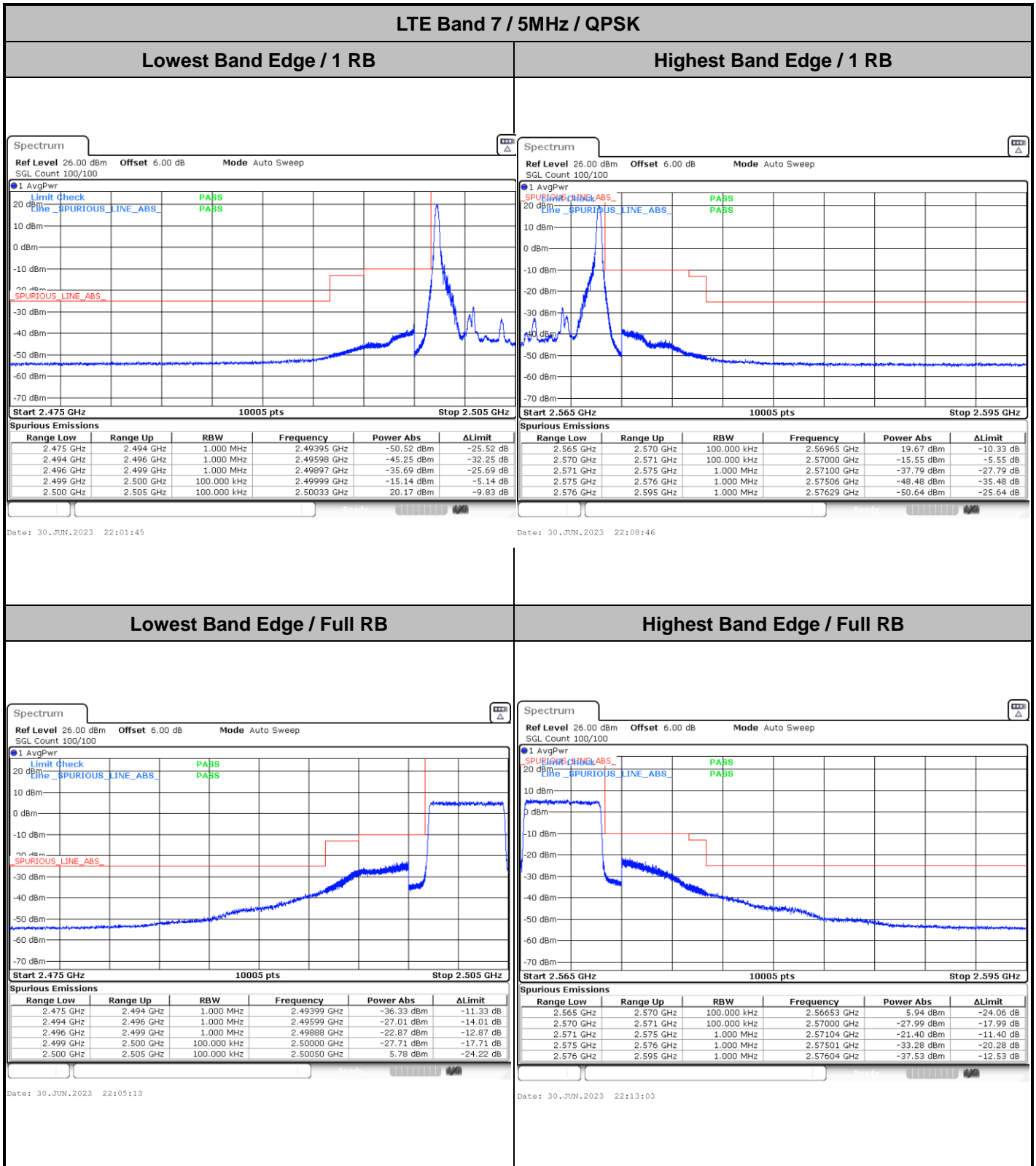
Middle Channel / 20MHz / 16QAM



Date: 30 JUN 2023 22:56:51



Conducted Band Edge

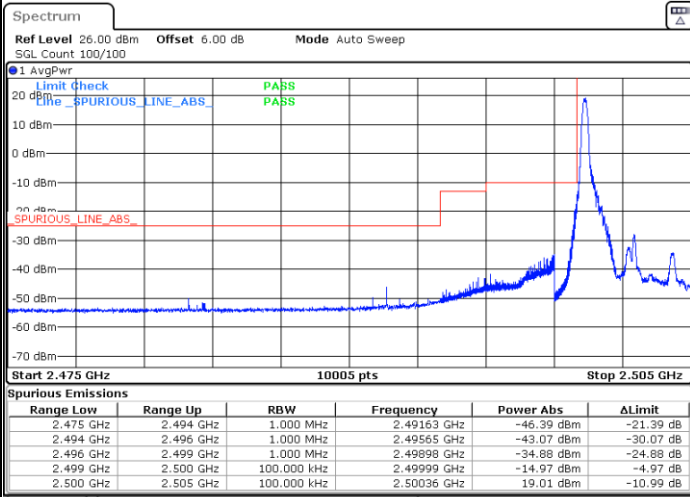




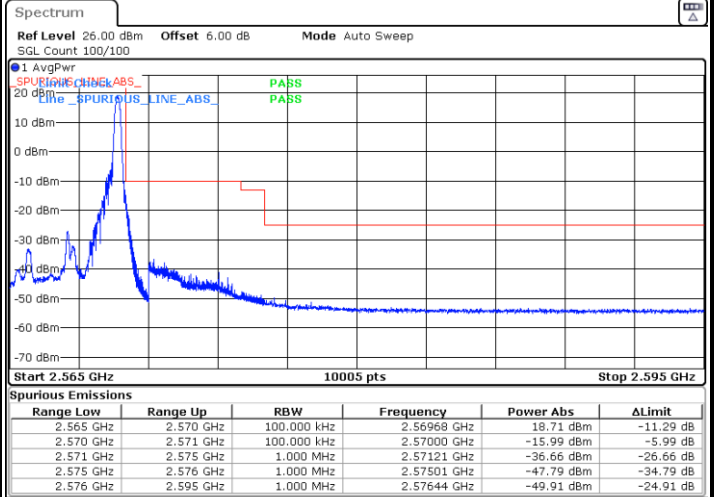
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



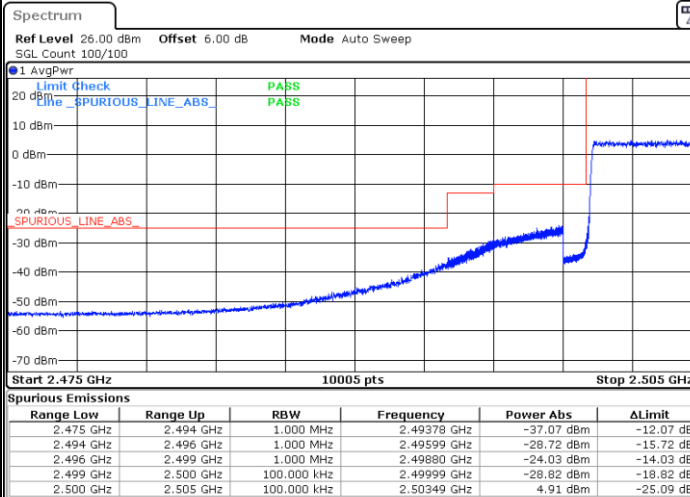
Date: 30 JUN 2023 22:02:26



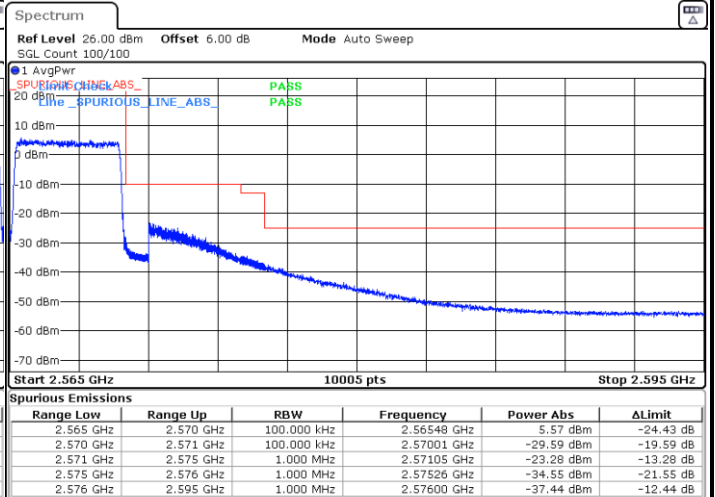
Date: 30 JUN 2023 22:09:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 JUN 2023 22:04:32

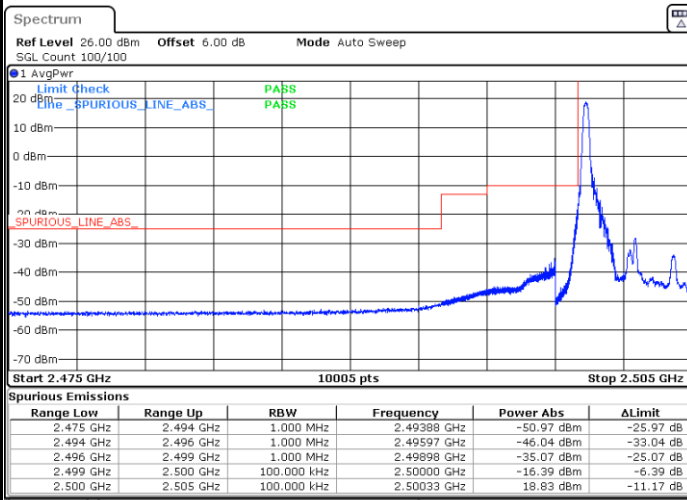


Date: 30 JUN 2023 22:12:12



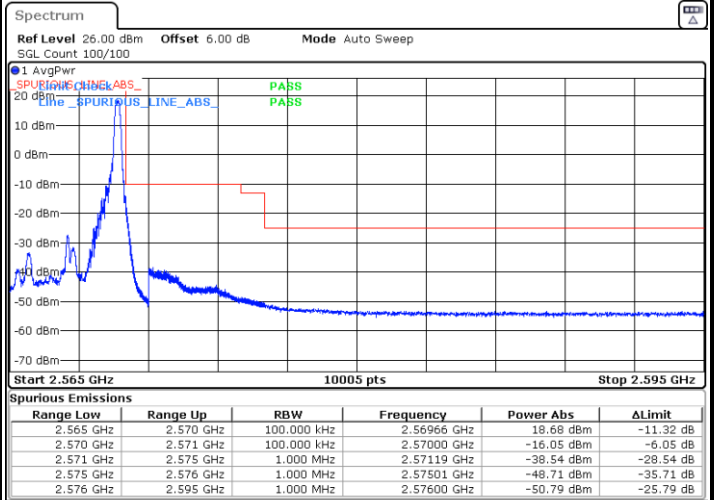
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



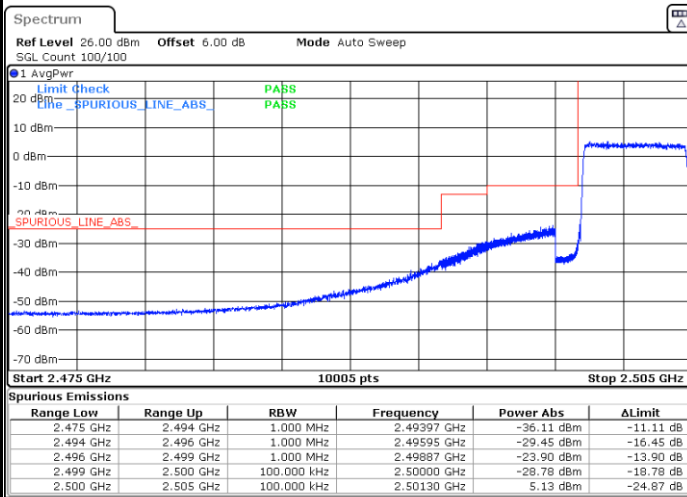
Date: 30 JUN.2023 22:03:08

Highest Band Edge / 1 RB



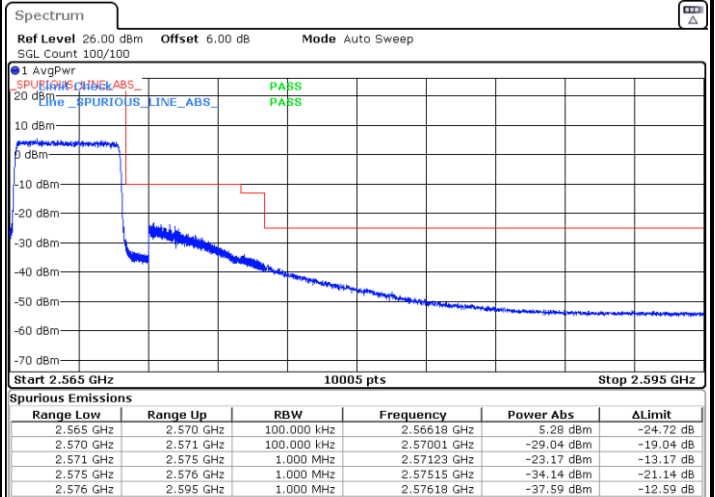
Date: 30 JUN.2023 22:10:29

Lowest Band Edge / Full RB



Date: 30 JUN.2023 22:03:50

Highest Band Edge / Full RB



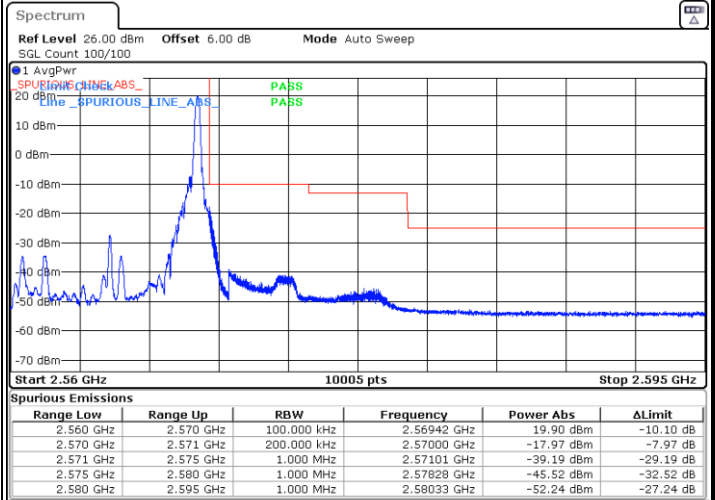
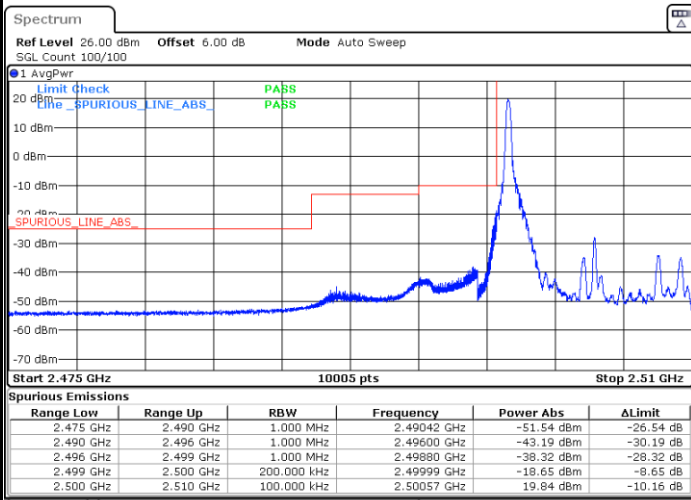
Date: 30 JUN.2023 22:11:21



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

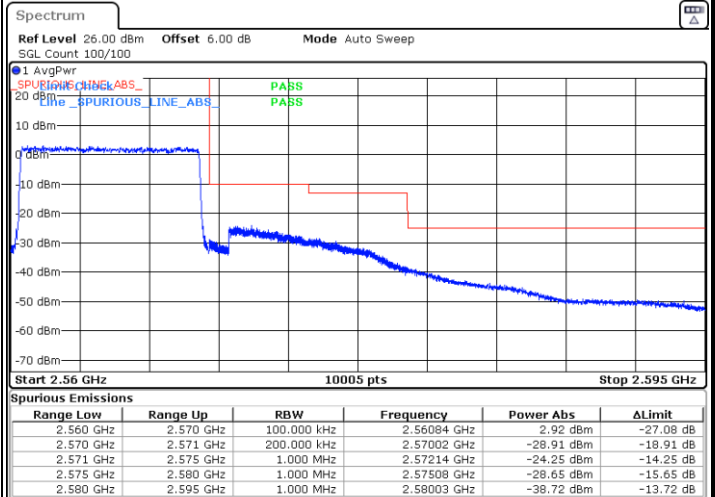
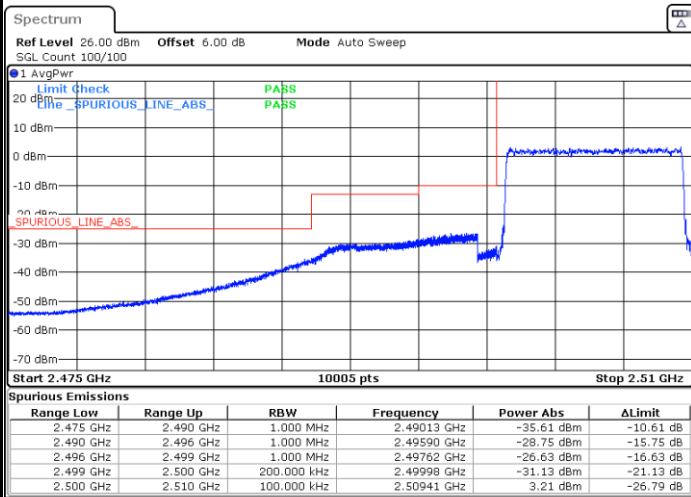


Date: 30 JUN 2023 22:15:15

Date: 30 JUN 2023 22:23:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



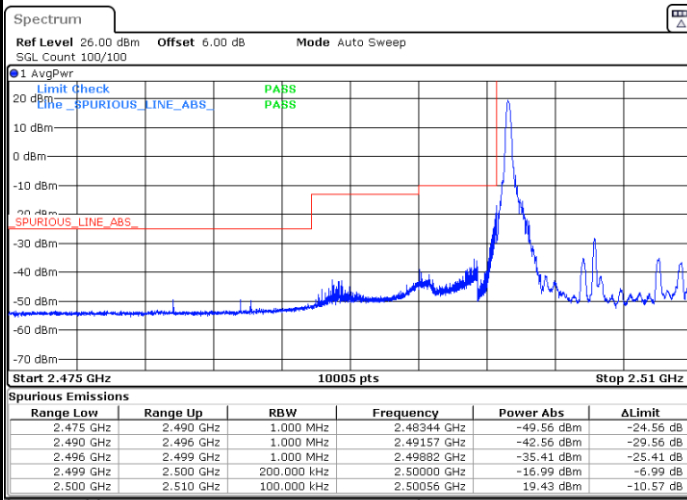
Date: 30 JUN 2023 22:19:30

Date: 30 JUN 2023 22:27:18



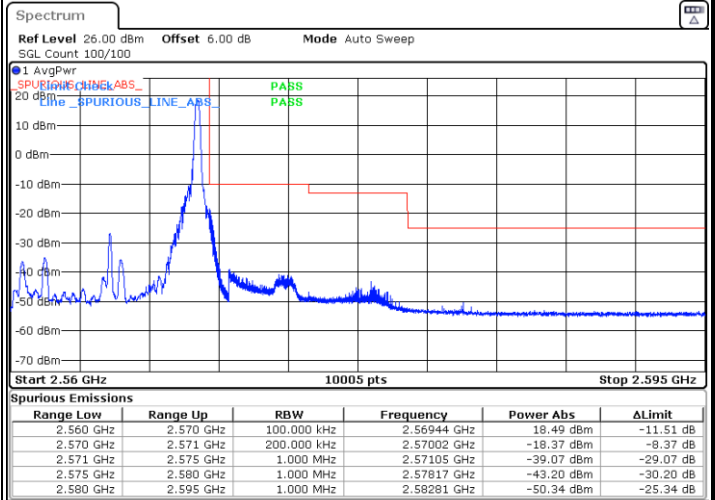
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



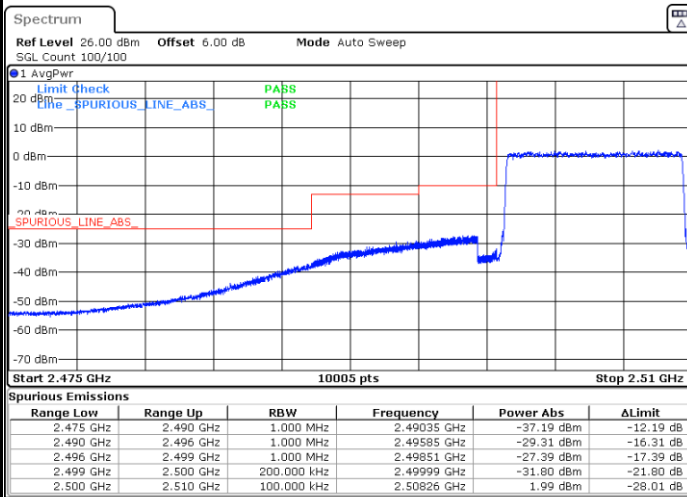
Date: 30 JUN.2023 22:16:06

Highest Band Edge / 1 RB



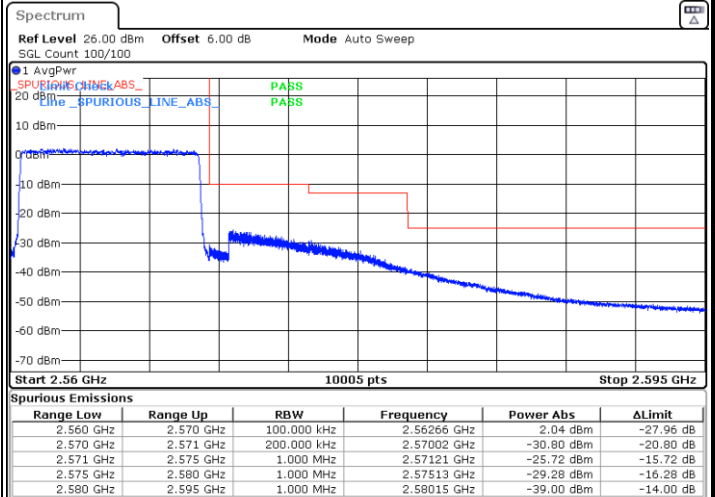
Date: 30 JUN.2023 22:23:54

Lowest Band Edge / Full RB



Date: 30 JUN.2023 22:18:19

Highest Band Edge / Full RB



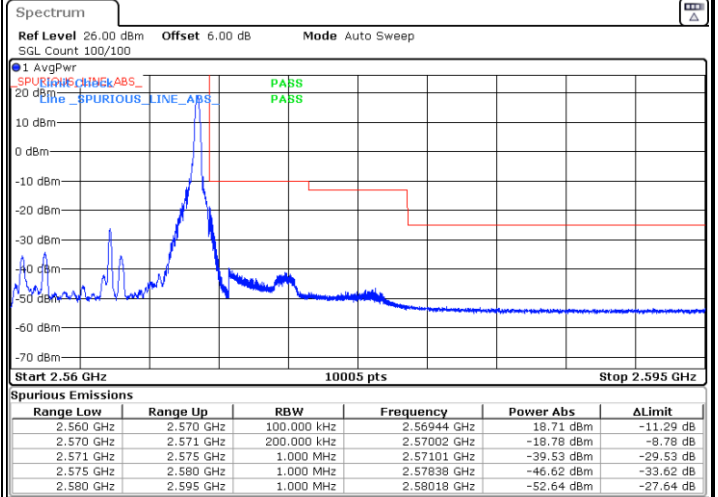
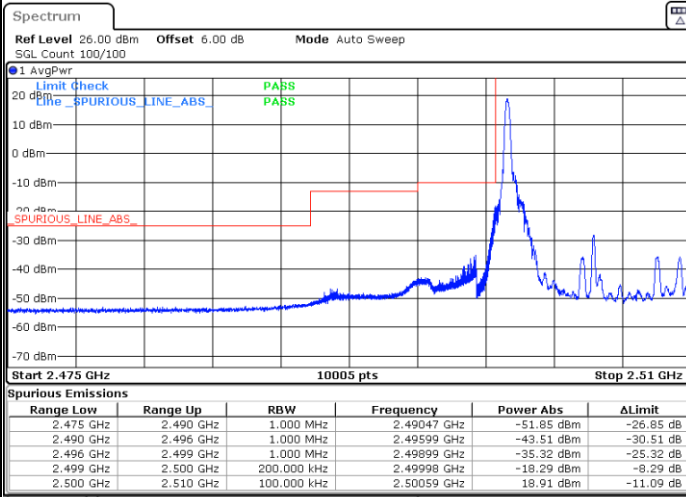
Date: 30 JUN.2023 22:26:27



LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

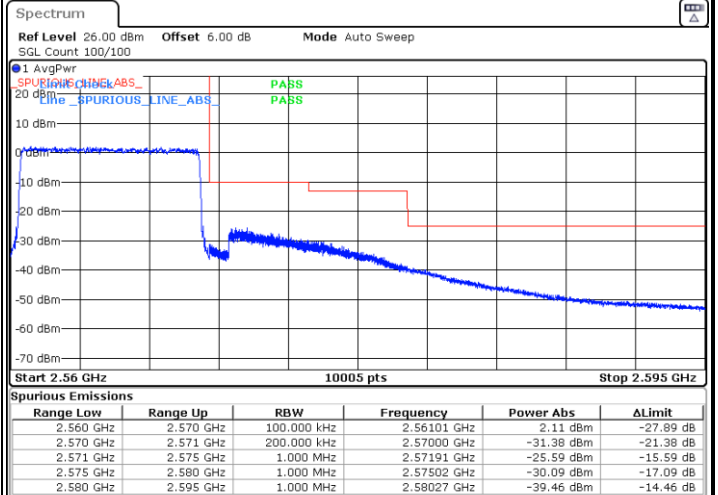
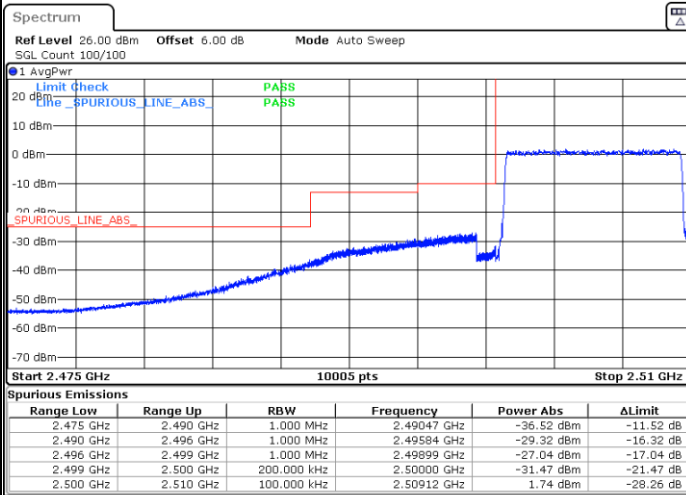


Date: 30 JUN.2023 22:16:57

Date: 30 JUN.2023 22:24:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 JUN.2023 22:17:48

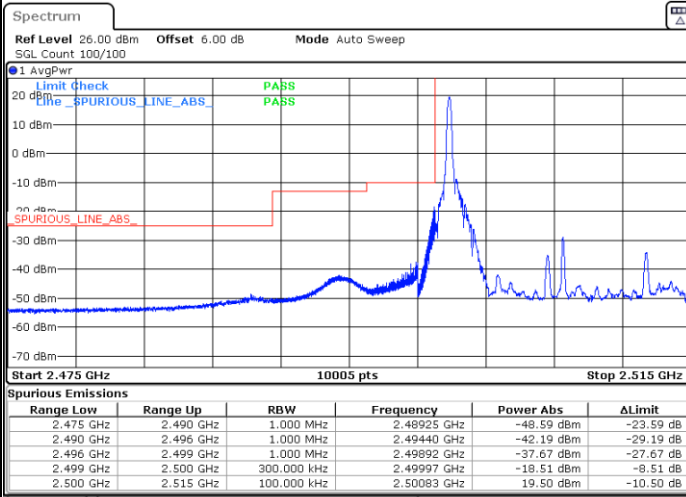
Date: 30 JUN.2023 22:25:36



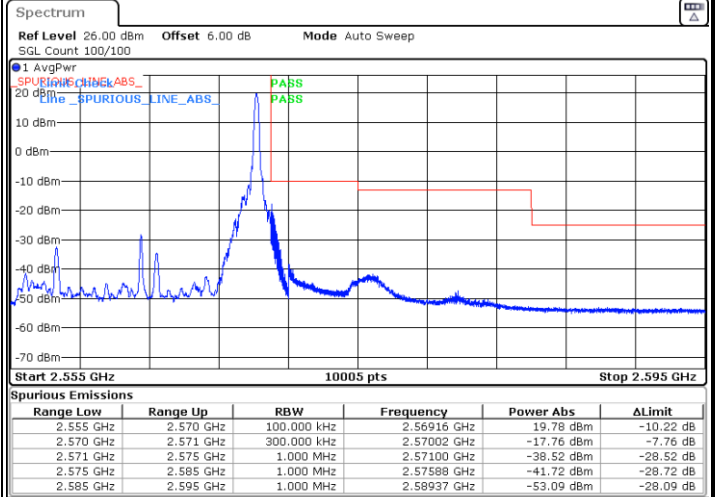
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



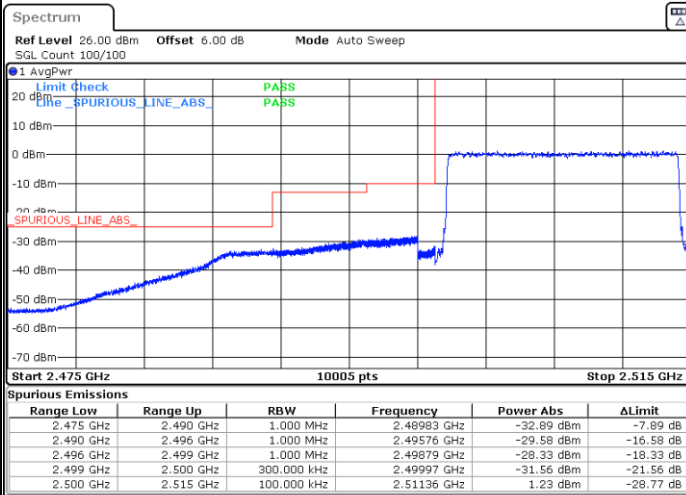
Date: 30 JUN.2023 22:29:30



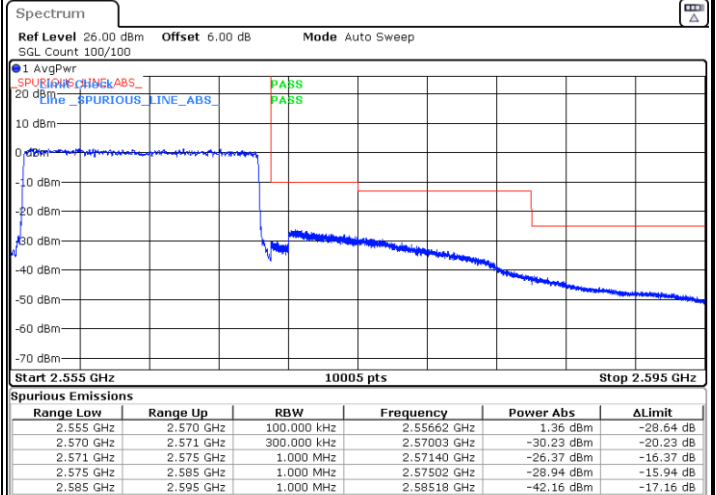
Date: 30 JUN.2023 22:37:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30 JUN.2023 22:33:46

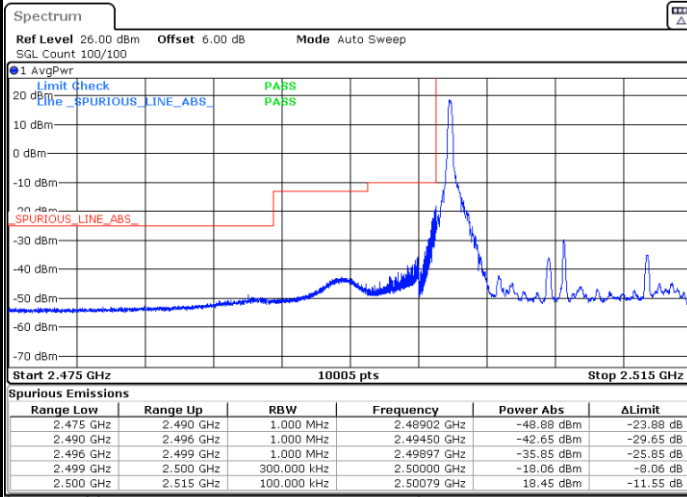


Date: 30 JUN.2023 22:41:33



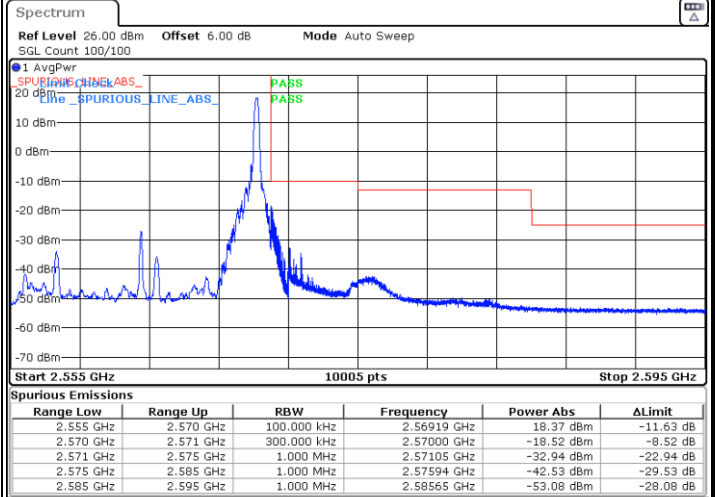
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



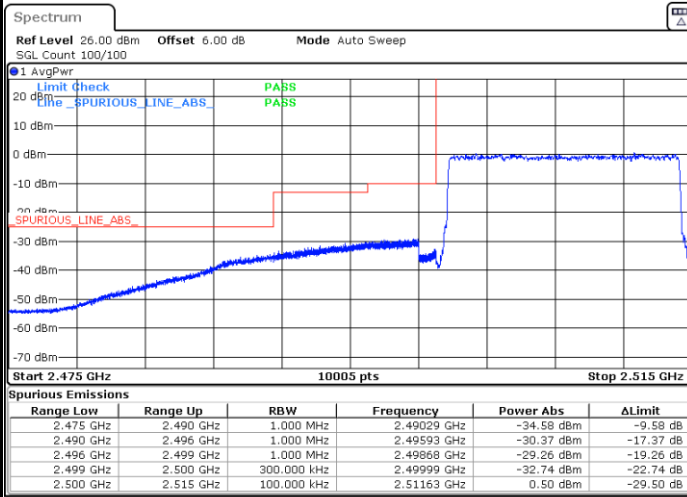
Date: 30 JUN.2023 22:30:22

Highest Band Edge / 1 RB



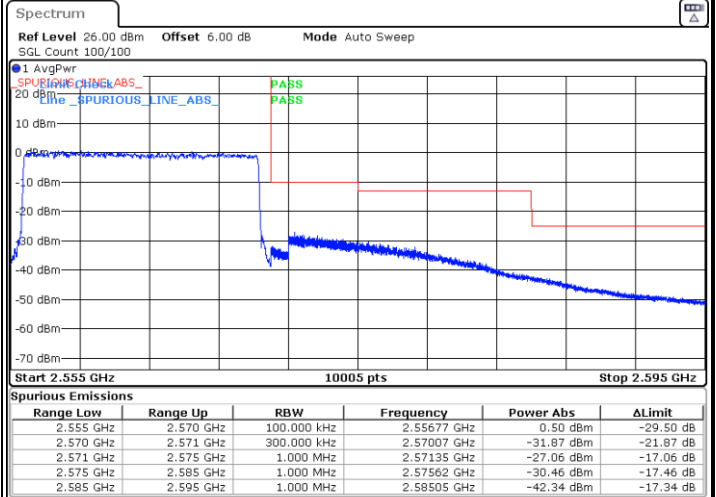
Date: 30 JUN.2023 22:38:09

Lowest Band Edge / Full RB



Date: 30 JUN.2023 22:32:55

Highest Band Edge / Full RB

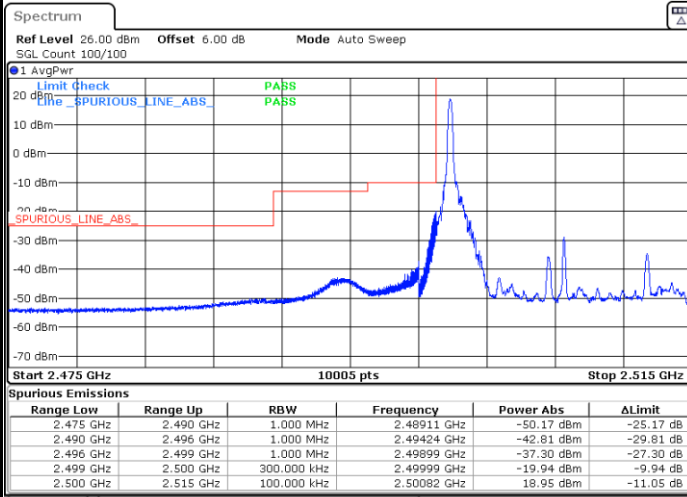


Date: 30 JUN.2023 22:40:42



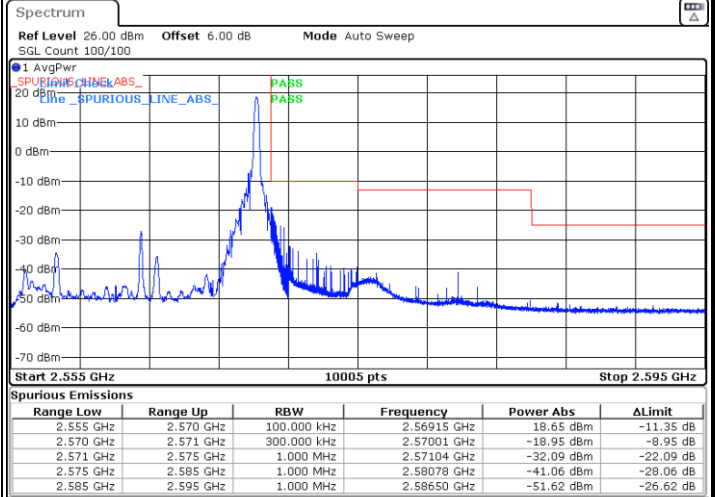
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



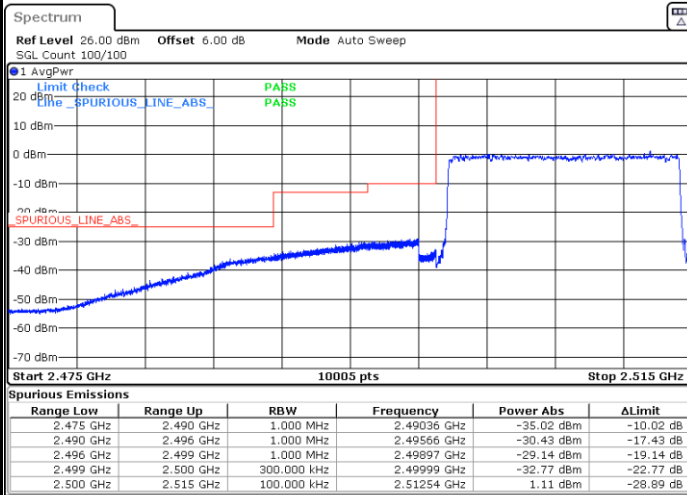
Date: 30 JUN.2023 22:31:13

Highest Band Edge / 1 RB



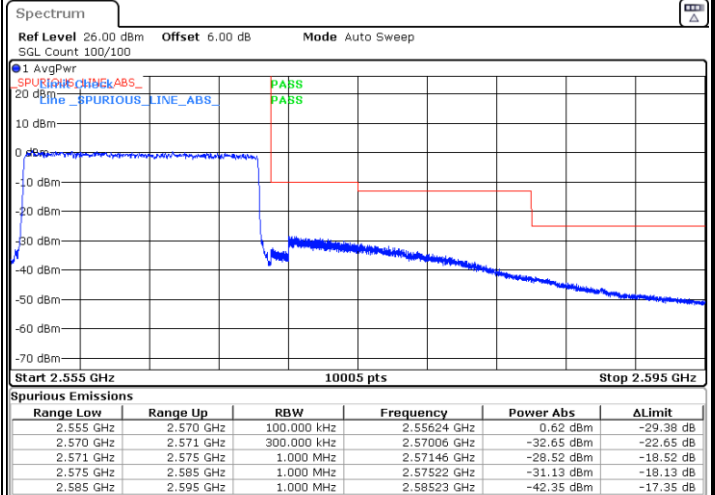
Date: 30 JUN.2023 22:39:00

Lowest Band Edge / Full RB



Date: 30 JUN.2023 22:32:04

Highest Band Edge / Full RB

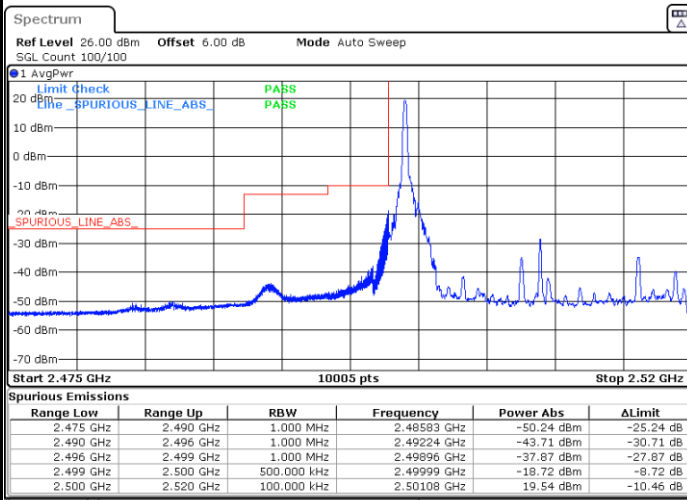


Date: 30 JUN.2023 22:39:52



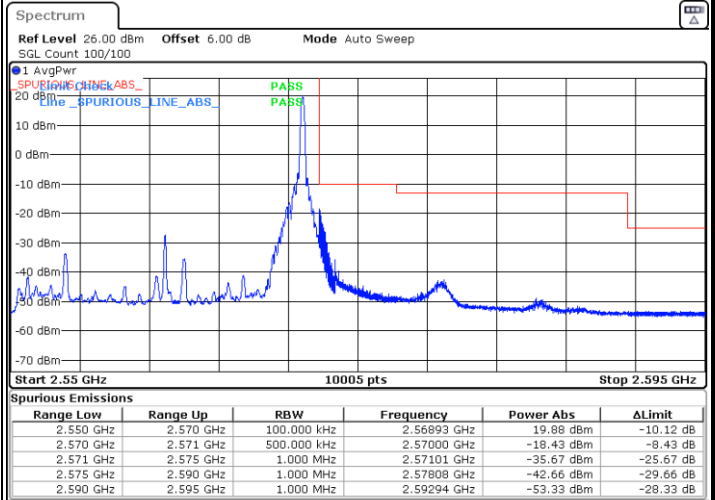
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



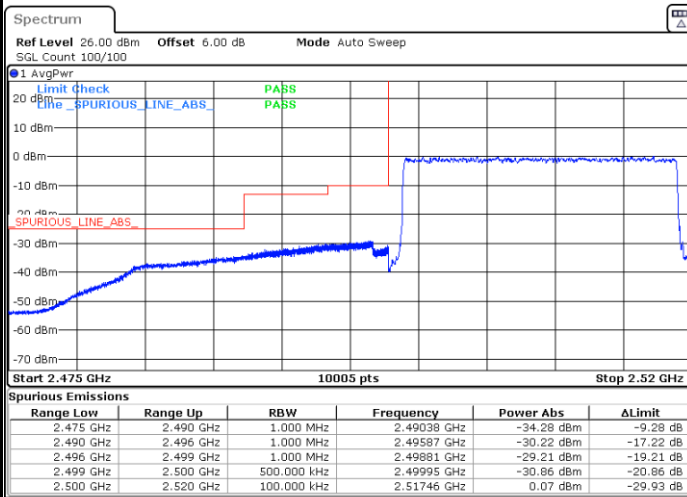
Date: 30 JUN.2023 22:43:46

Highest Band Edge / 1 RB



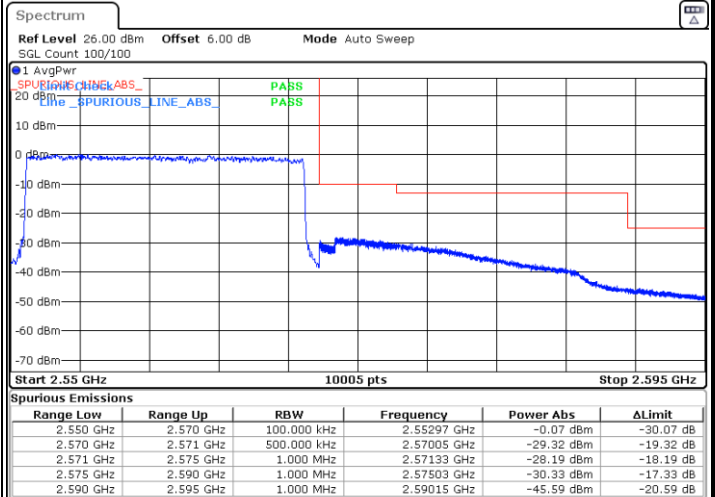
Date: 30 JUN.2023 22:51:33

Lowest Band Edge / Full RB



Date: 30 JUN.2023 22:48:02

Highest Band Edge / Full RB

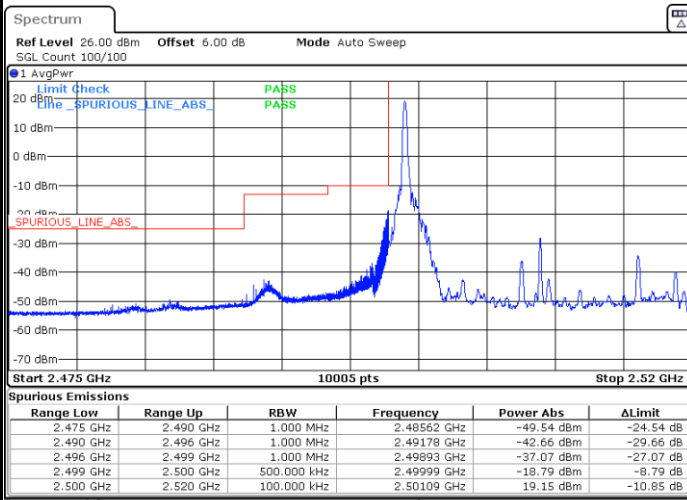


Date: 30 JUN.2023 22:55:47



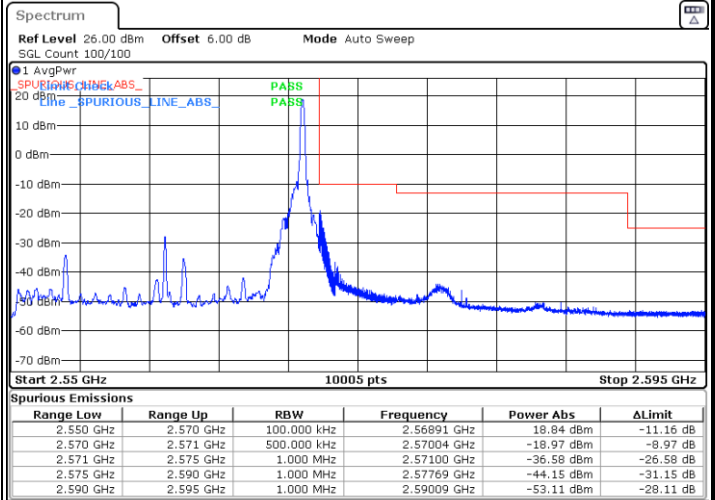
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



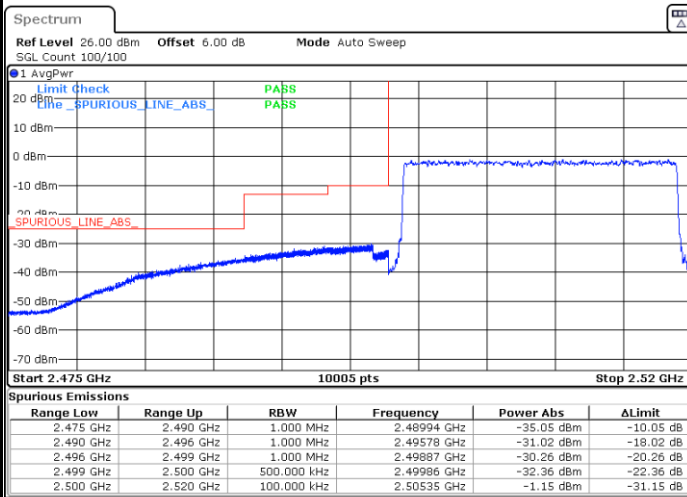
Date: 30 JUN.2023 22:44:37

Highest Band Edge / 1 RB



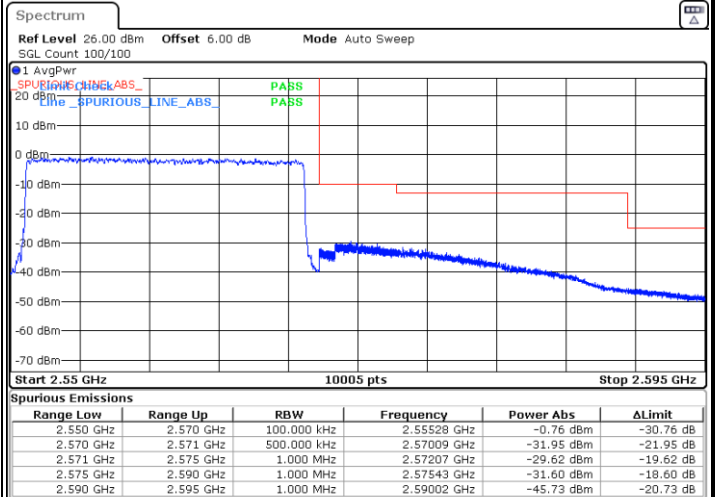
Date: 30 JUN.2023 22:52:24

Lowest Band Edge / Full RB



Date: 30 JUN.2023 22:47:10

Highest Band Edge / Full RB

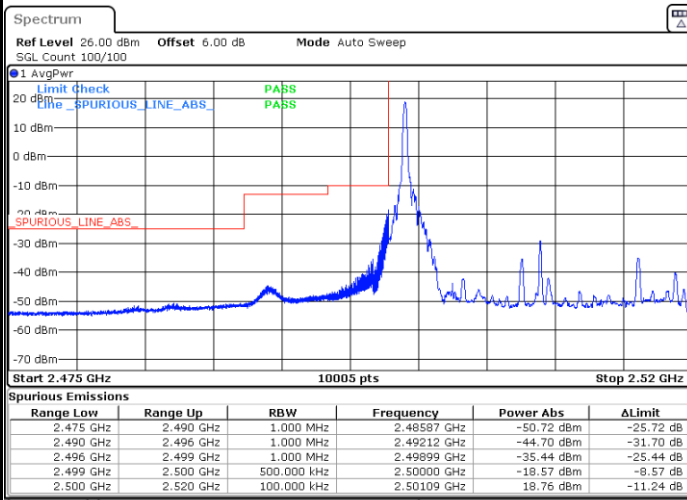


Date: 30 JUN.2023 22:54:56



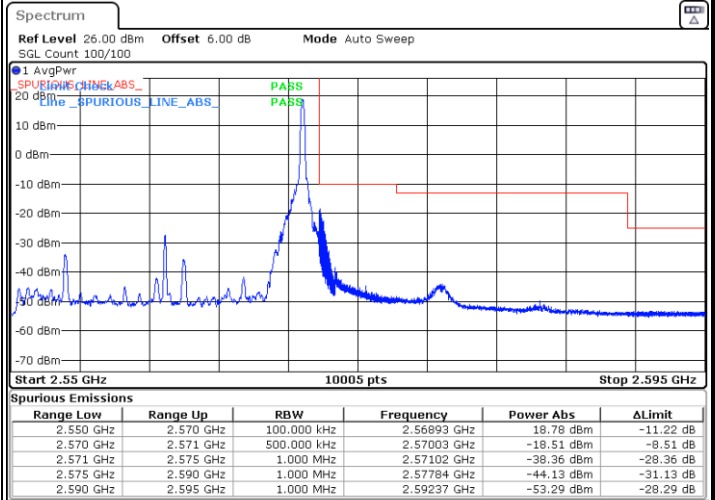
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



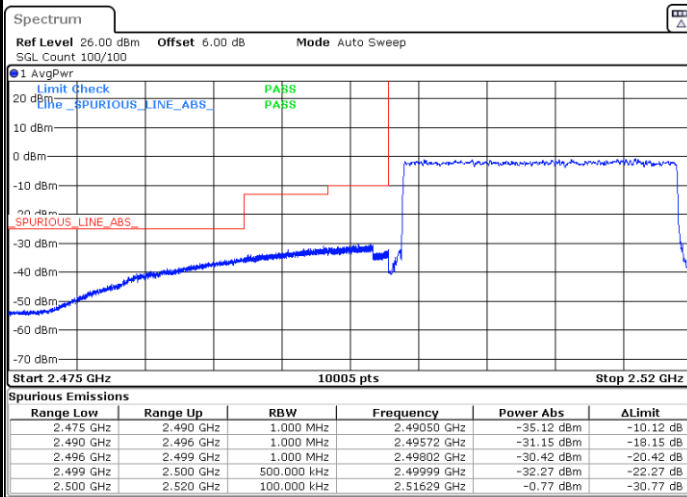
Date: 30 JUN.2023 22:45:28

Highest Band Edge / 1 RB



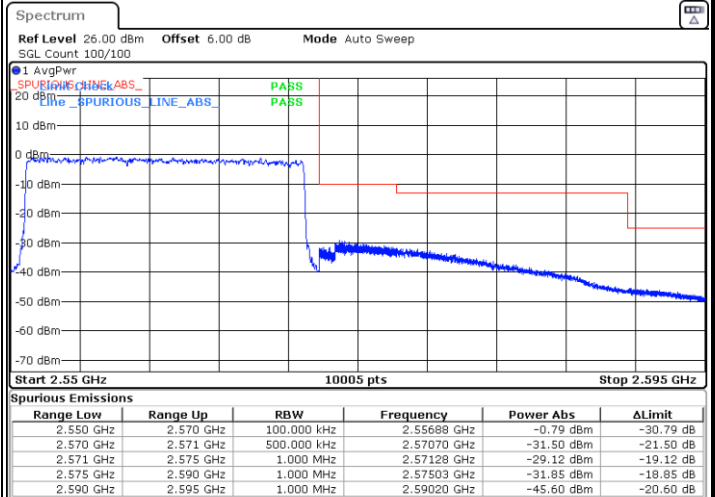
Date: 30 JUN.2023 22:53:15

Lowest Band Edge / Full RB



Date: 30 JUN.2023 22:46:19

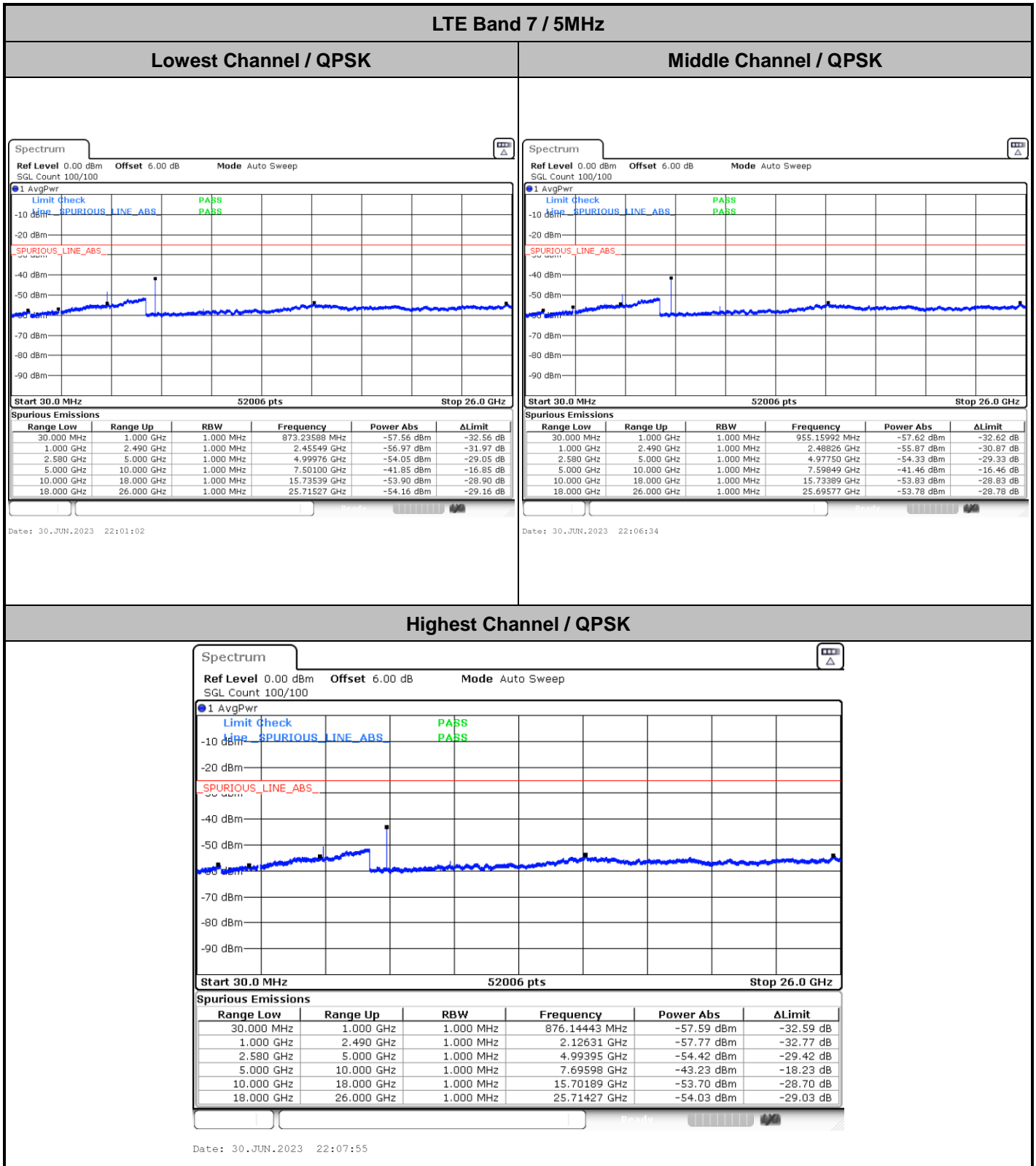
Highest Band Edge / Full RB



Date: 30 JUN.2023 22:54:06



Conducted Spurious Emission

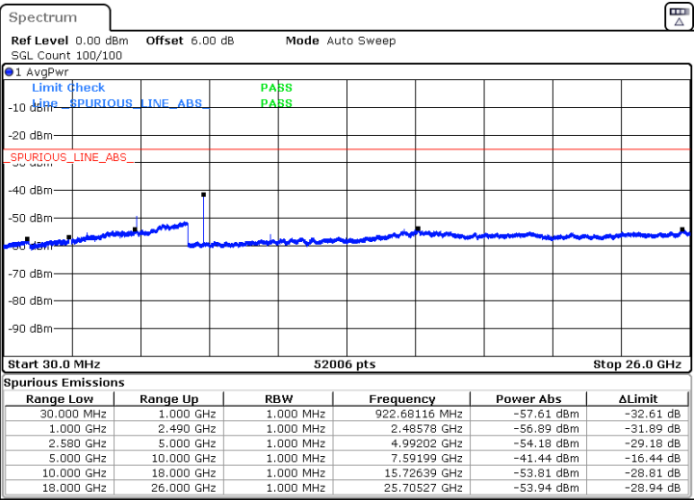
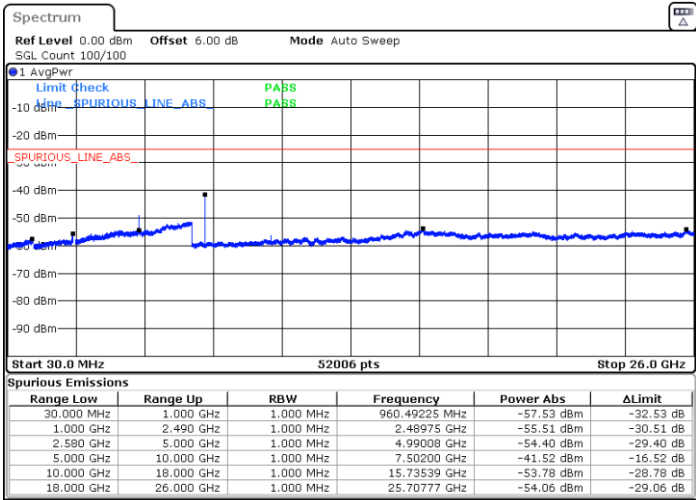




LTE Band 7 / 10MHz

Lowest Channel / QPSK

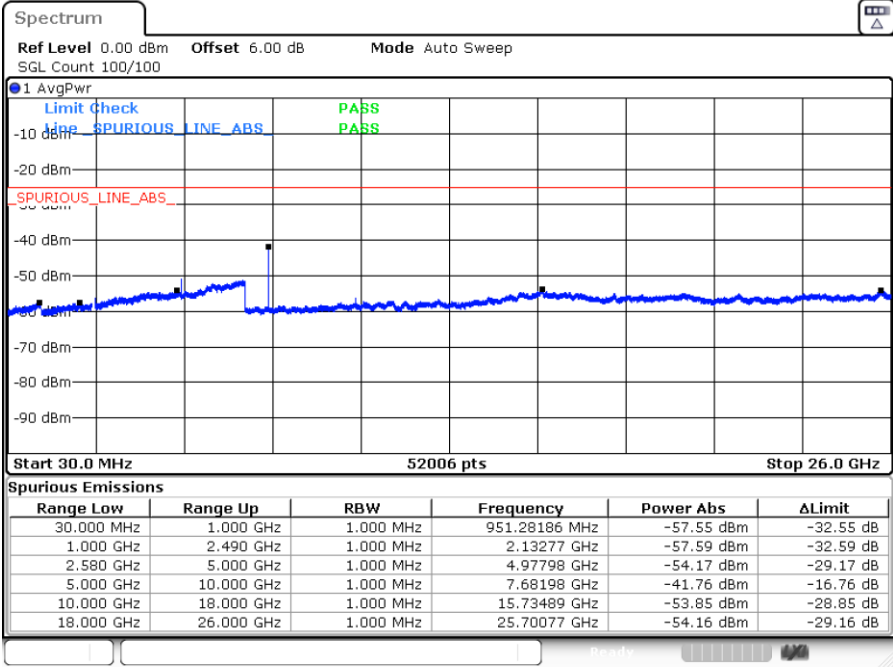
Middle Channel / QPSK



Date: 30.JUN.2023 22:14:24

Date: 30.JUN.2023 22:20:51

Highest Channel / QPSK



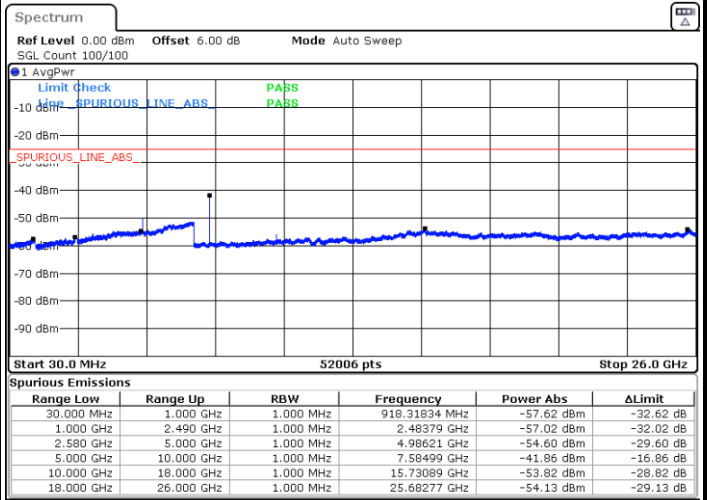
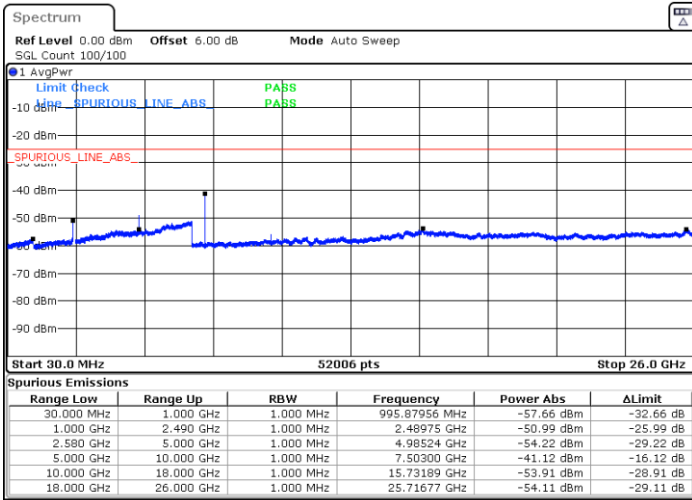
Date: 30.JUN.2023 22:22:11



LTE Band 7 / 15MHz

Lowest Channel / QPSK

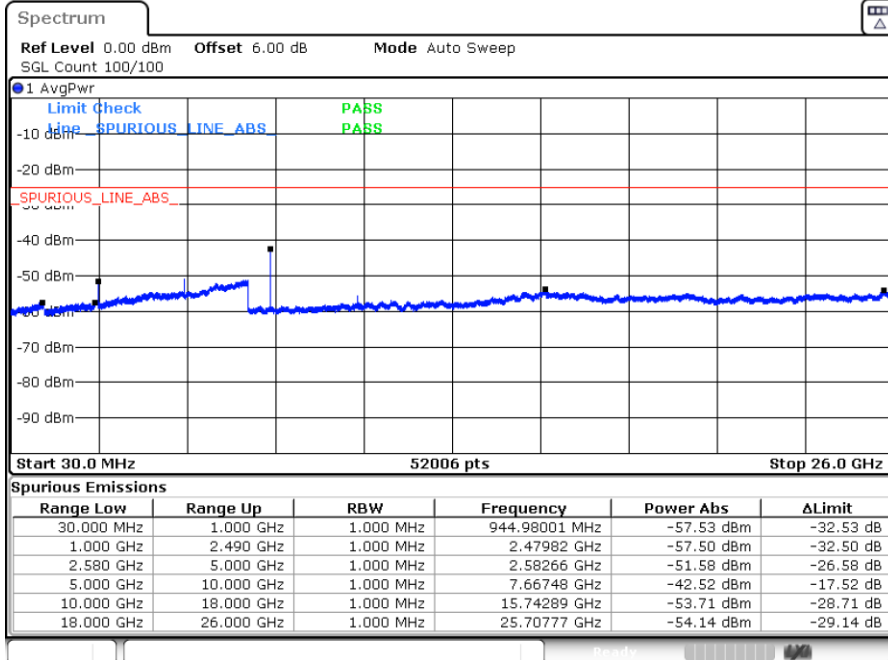
Middle Channel / QPSK



Date: 30.JUN.2023 22:28:39

Date: 30.JUN.2023 22:35:06

Highest Channel / QPSK



Date: 30.JUN.2023 22:36:27