



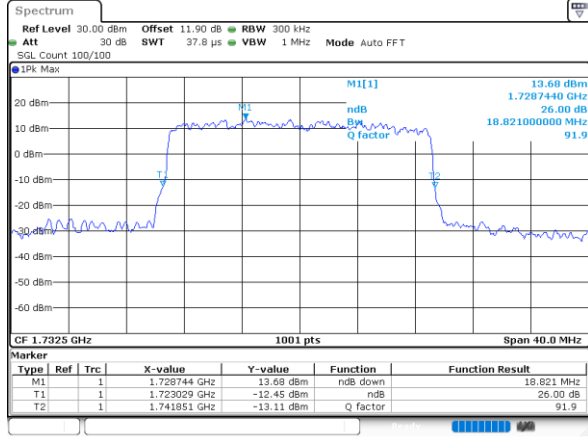
LTE Band 4

Middle Channel / 20MHz / QPSK

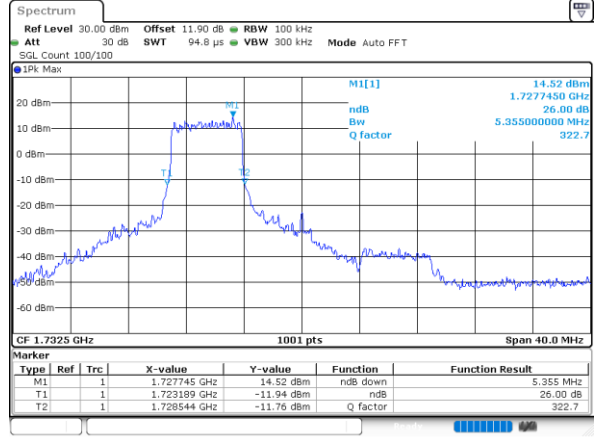
Middle Channel / 20MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 17:07:30

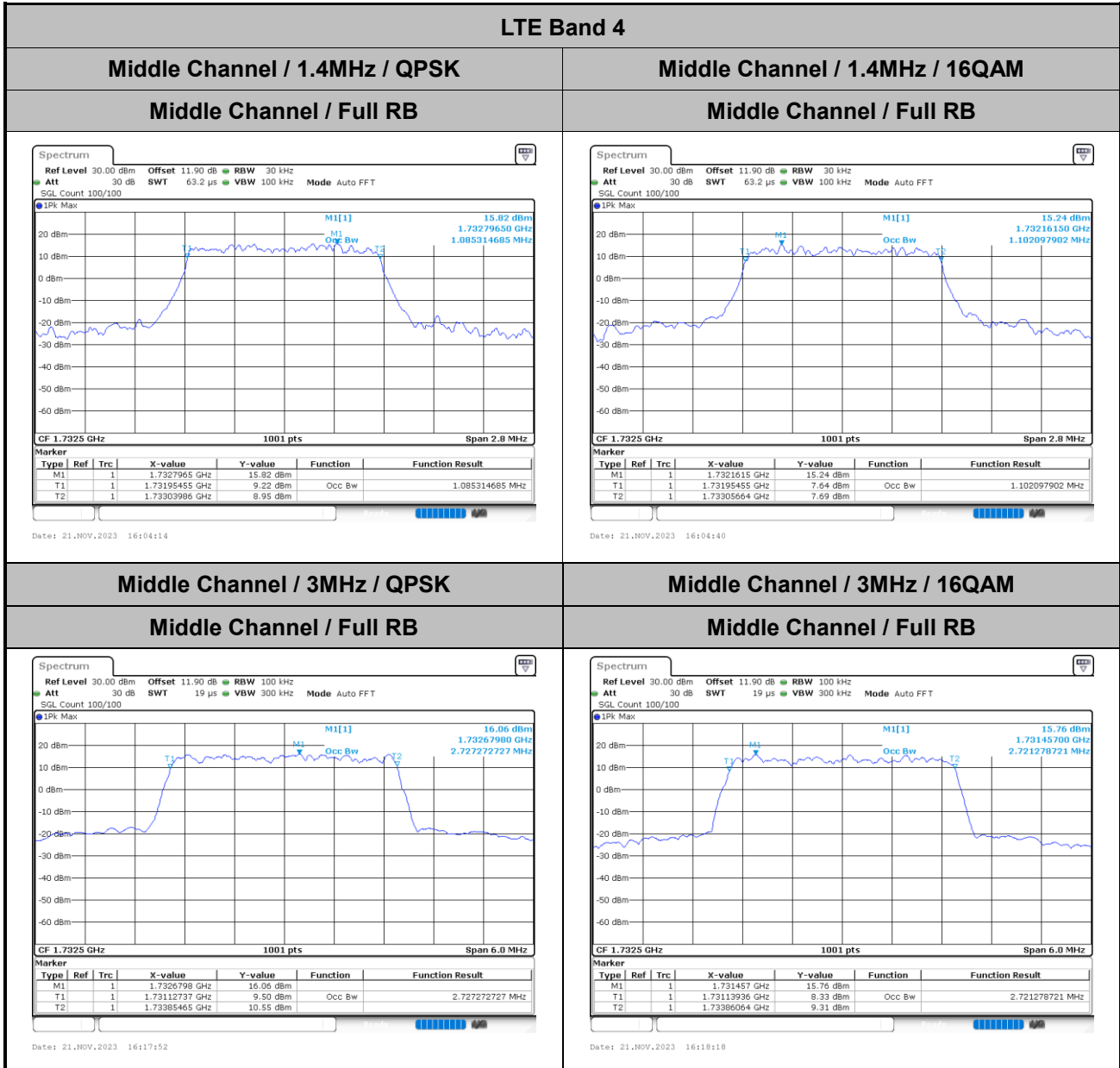


Date: 21.NOV.2023 17:07:56



Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.73	2.72	4.50	4.49	9.03	4.88	13.43	4.86	17.82	4.84





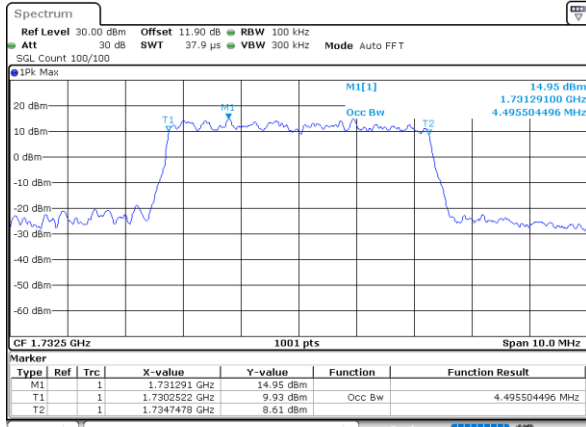
LTE Band 4

Middle Channel / 5MHz / QPSK

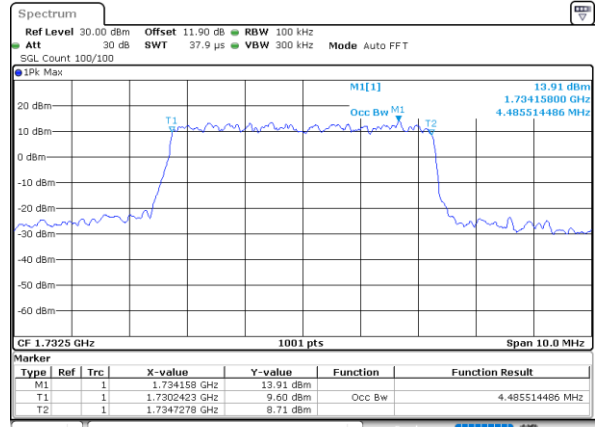
Middle Channel / 5MHz / 16QAM

Middle Channel / Full RB

Middle Channel / Full RB



Date: 21.NOV.2023 16:35:14



Date: 21.NOV.2023 16:35:39



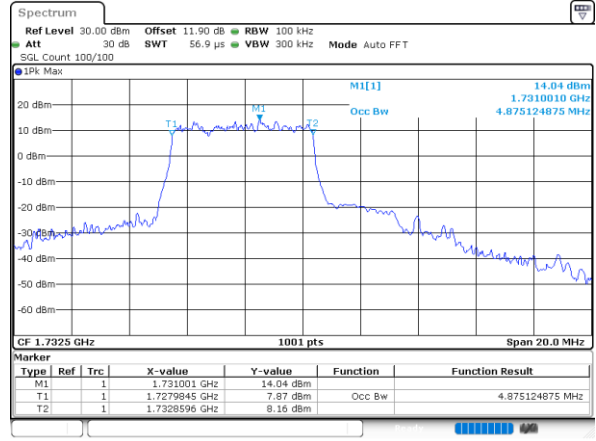
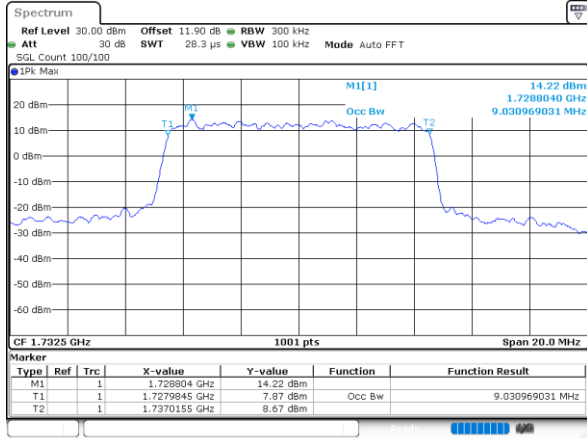
LTE Band 4

Middle Channel / 10MHz / QPSK

Middle Channel / 10MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 16:43:23

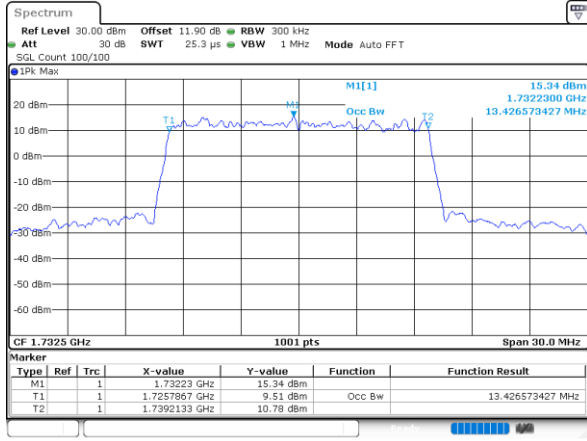
Date: 21.NOV.2023 16:43:49

Middle Channel / 15MHz / QPSK

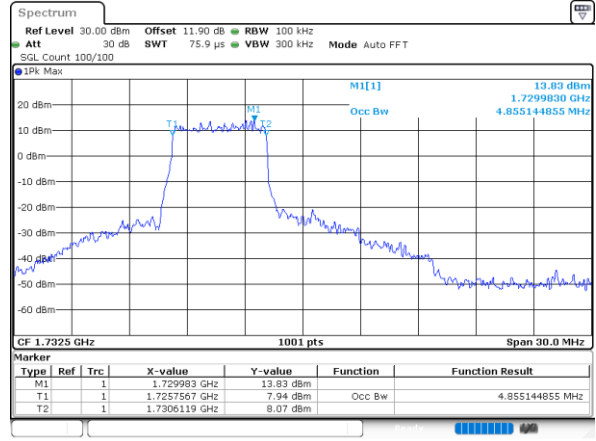
Middle Channel / 15MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 16:55:00



Date: 21.NOV.2023 16:55:25



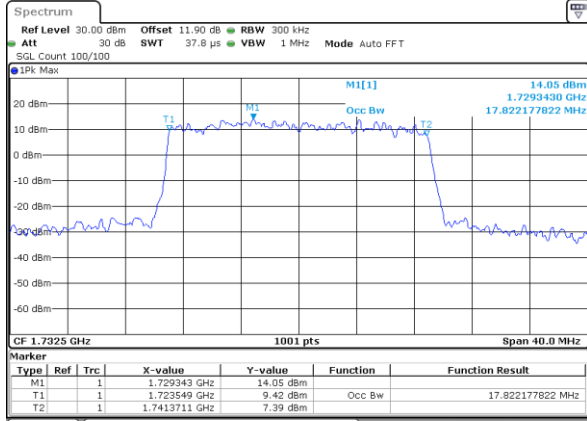
LTE Band 4

Middle Channel / 20MHz / QPSK

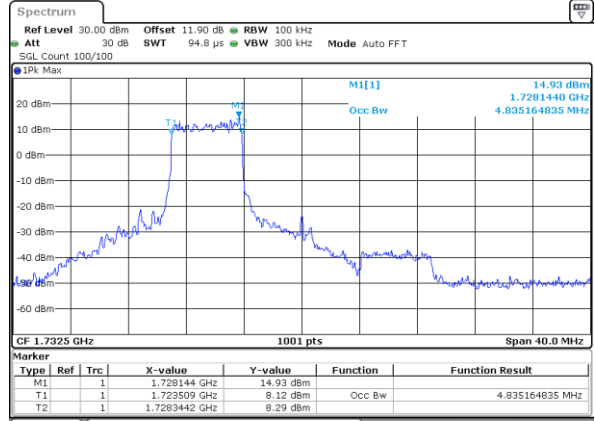
Middle Channel / 20MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27 RB0



Date: 21.NOV.2023 17:06:39



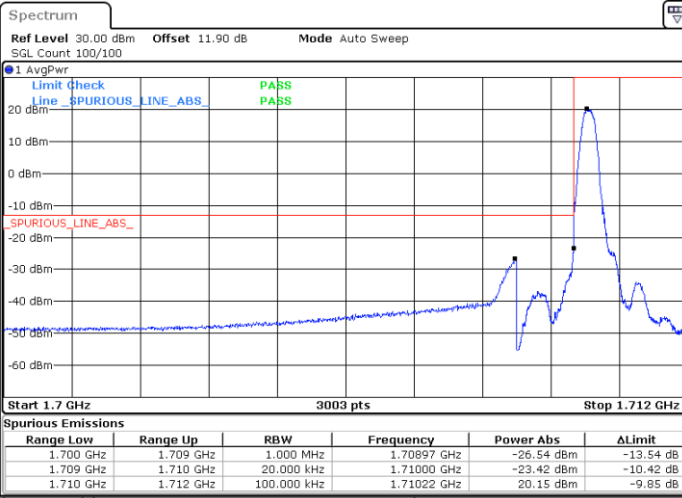
Date: 21.NOV.2023 17:07:04



Conducted Band Edge

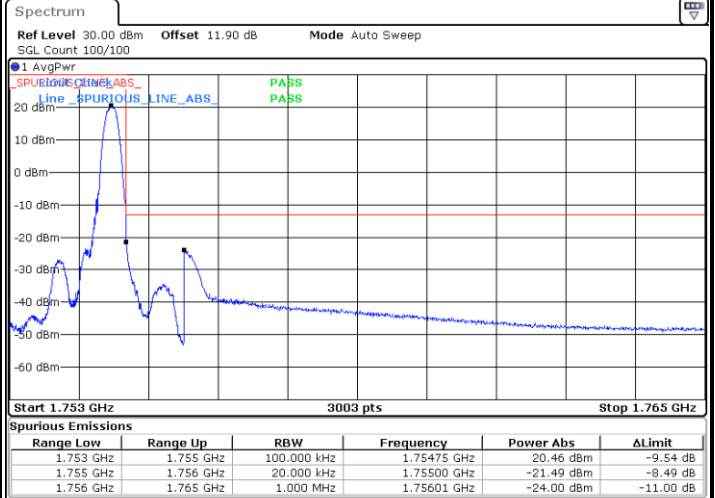
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB0



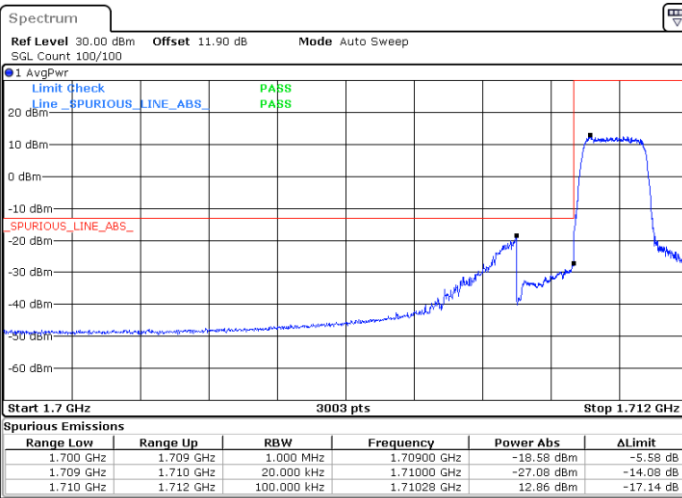
Date: 21.NOV.2023 15:58:43

Highest Band Edge / 1RBmax



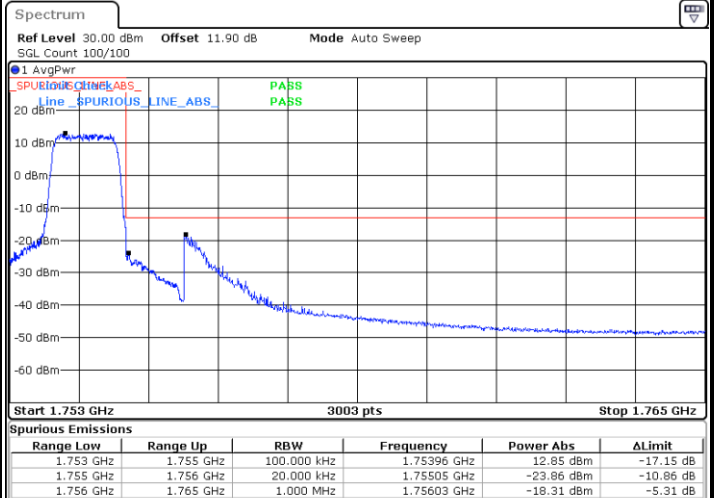
Date: 21.NOV.2023 16:08:00

Lowest Band Edge / Full RB



Date: 21.NOV.2023 16:01:16

Highest Band Edge / Full RB



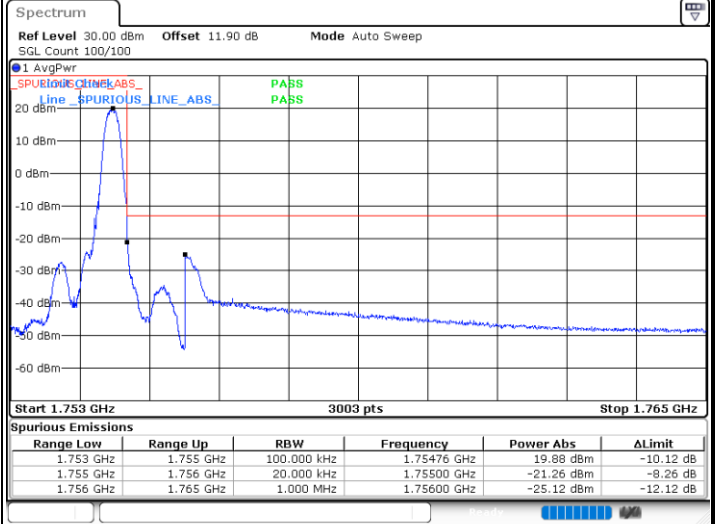
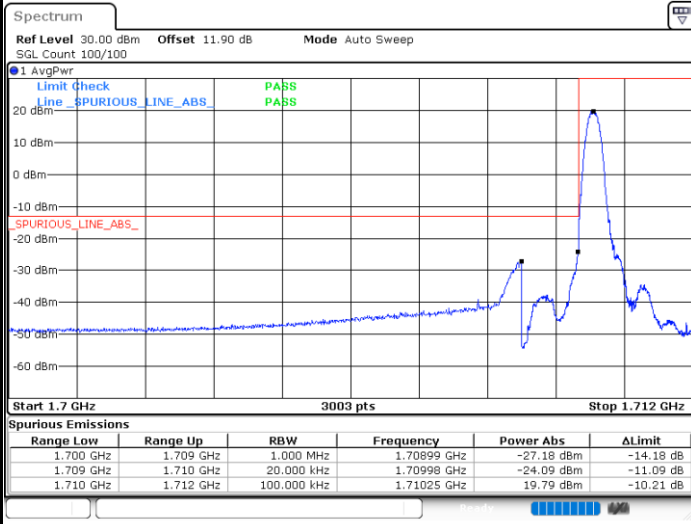
Date: 21.NOV.2023 16:10:33



LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB0

Highest Band Edge / 1 RBmax

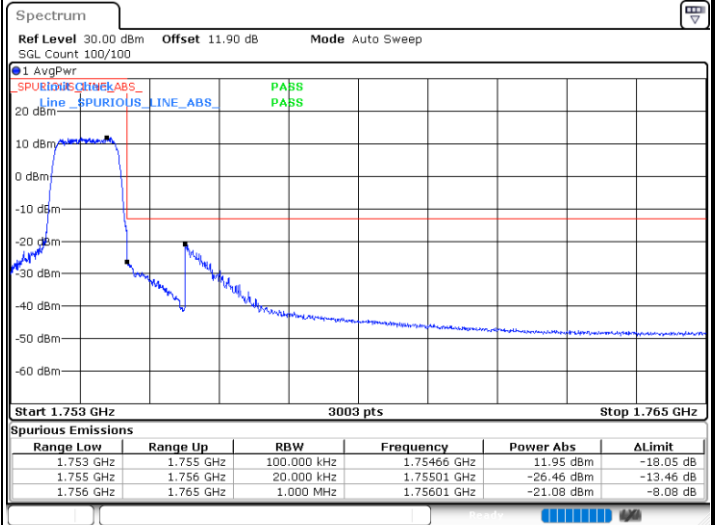
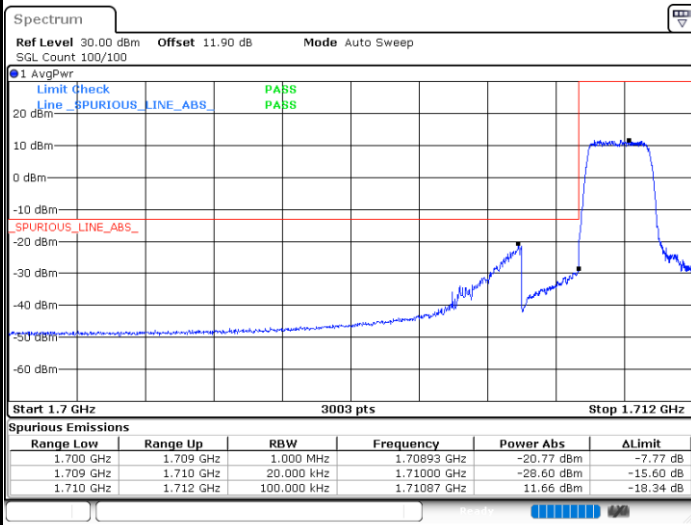


Date: 21.NOV.2023 15:59:59

Date: 21.NOV.2023 16:09:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



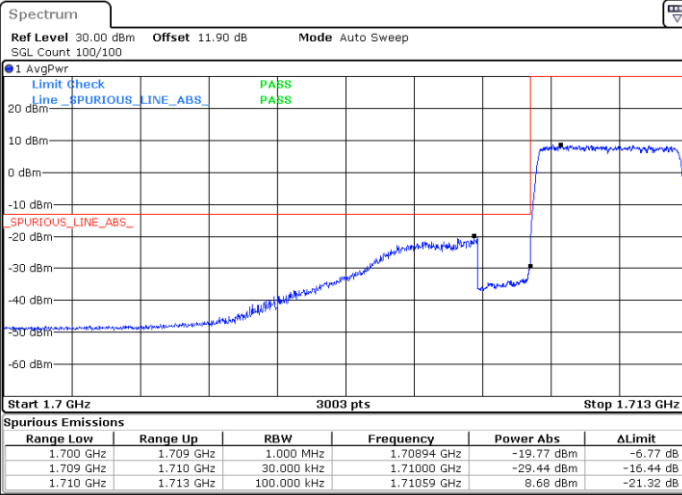
Date: 21.NOV.2023 16:02:32

Date: 21.NOV.2023 16:11:49



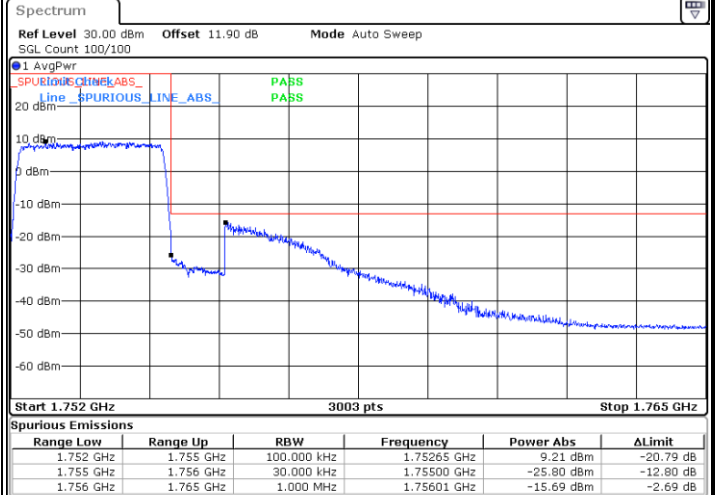
LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.NOV.2023 16:16:09

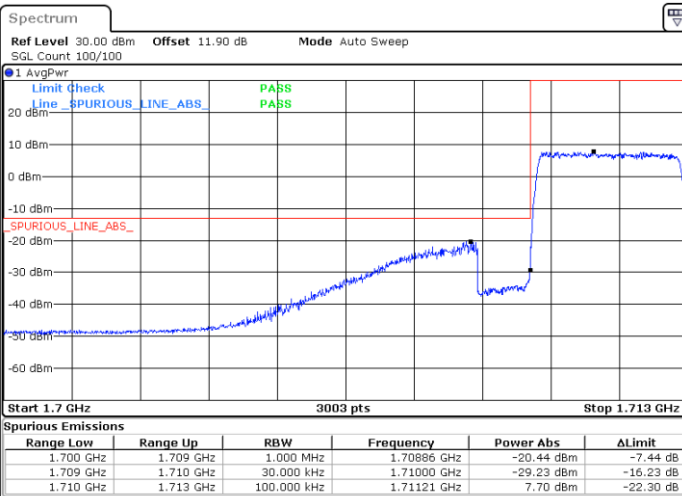
Highest Band Edge / Full RB



Date: 21.NOV.2023 16:24:08

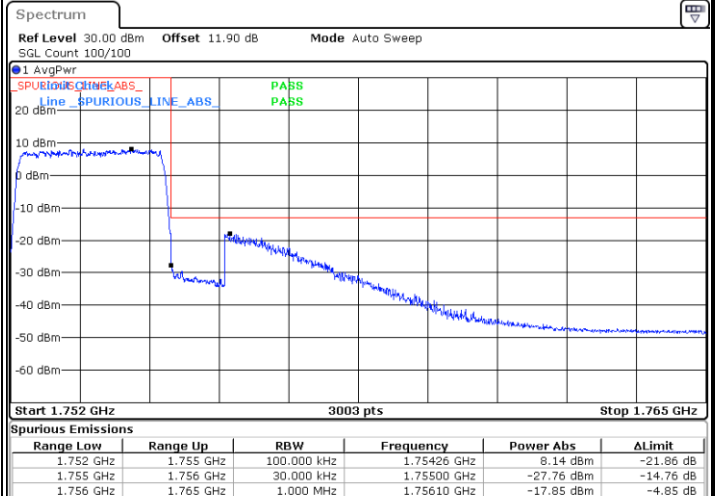
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Date: 21.NOV.2023 16:17:25

Highest Band Edge / Full RB

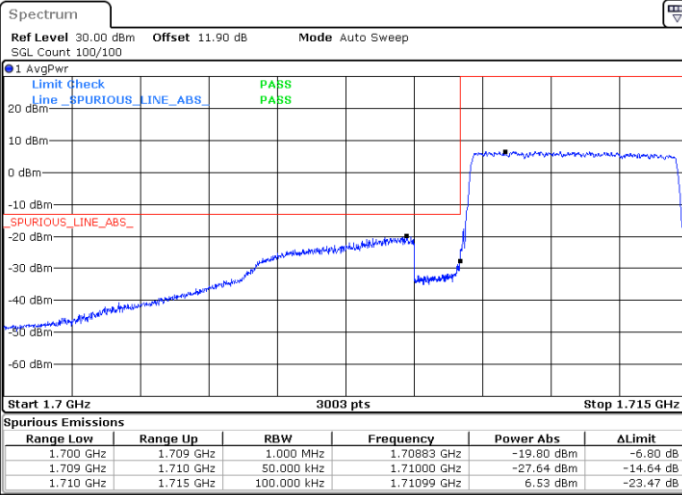


Date: 21.NOV.2023 16:25:24



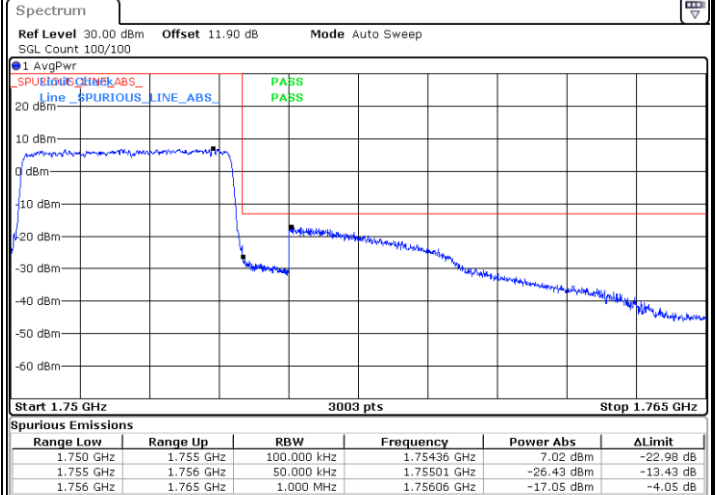
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.NOV.2023 16:33:30

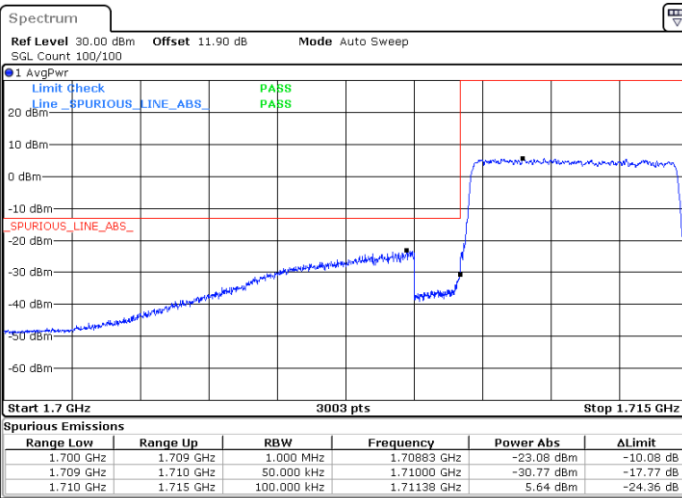
Highest Band Edge / Full RB



Date: 21.NOV.2023 16:37:45

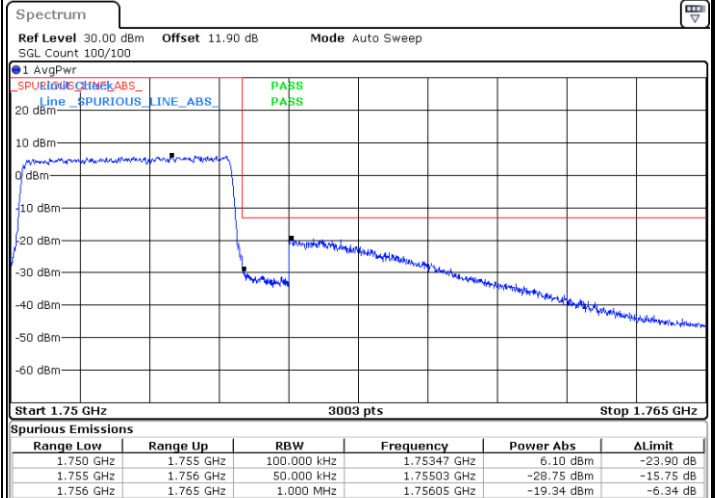
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 21.NOV.2023 16:34:46

Highest Band Edge / Full RB

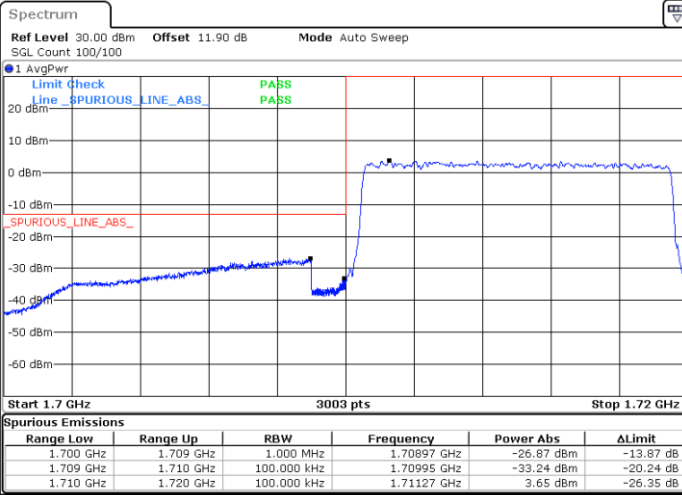


Date: 21.NOV.2023 16:39:01

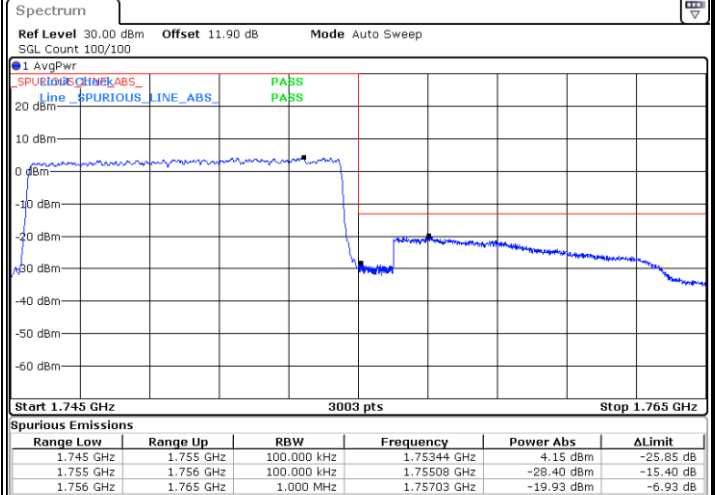


LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

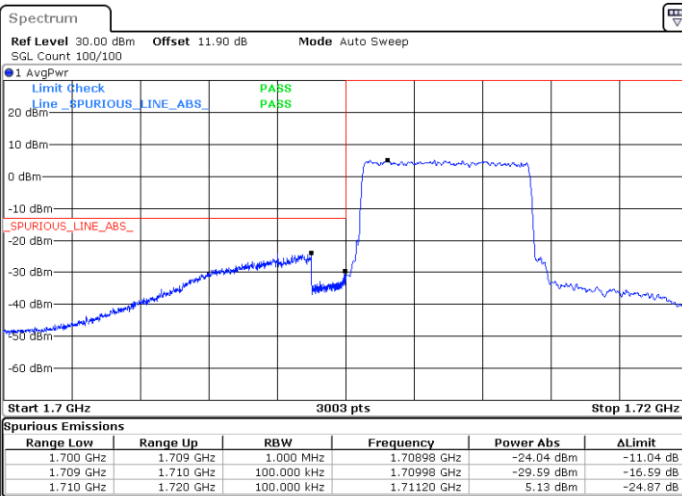


Highest Band Edge / Full RB

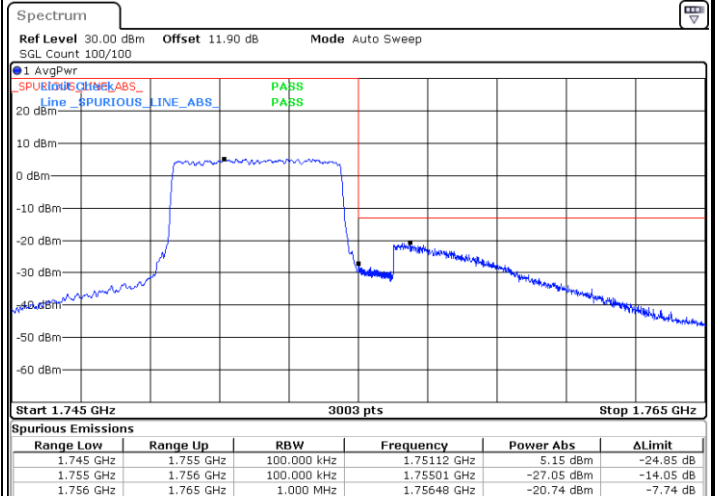


LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 27 RB0



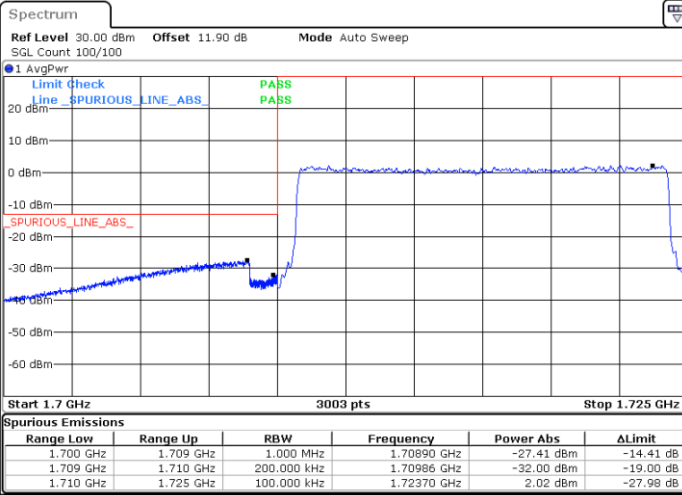
Highest Band Edge / 27 RBmax



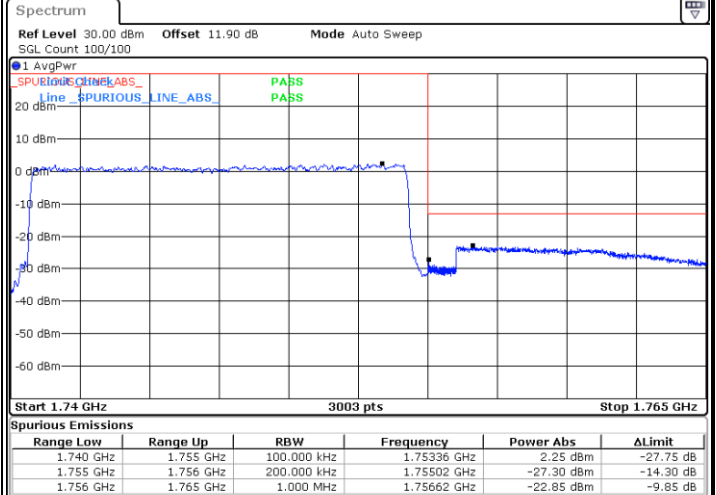


LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB

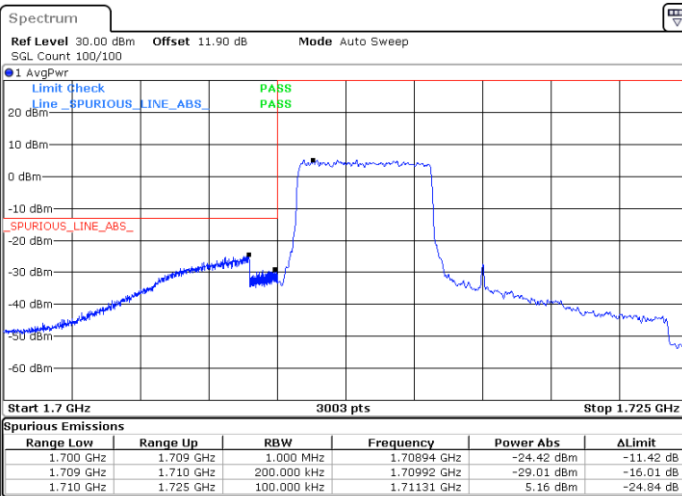


Highest Band Edge / Full RB

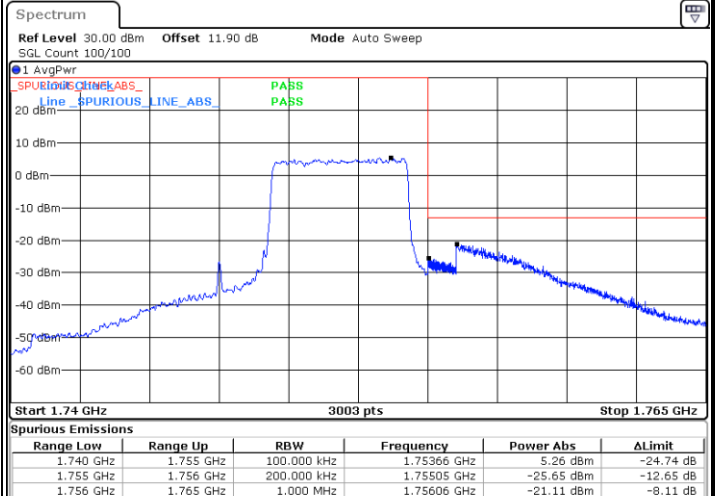


LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 27 RB0



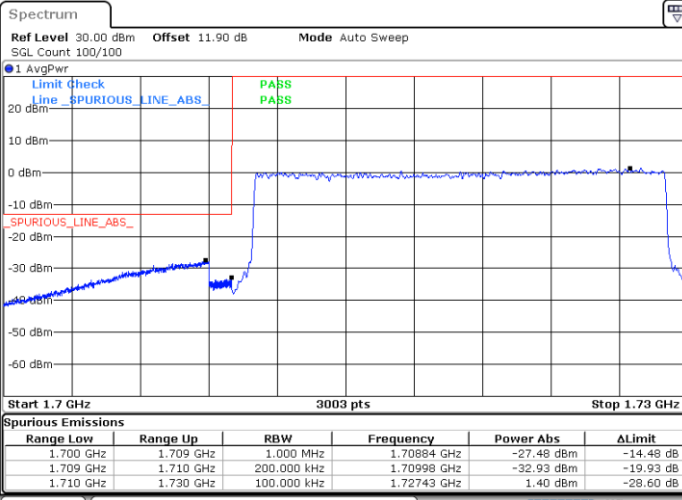
Highest Band Edge / 27 RBmax





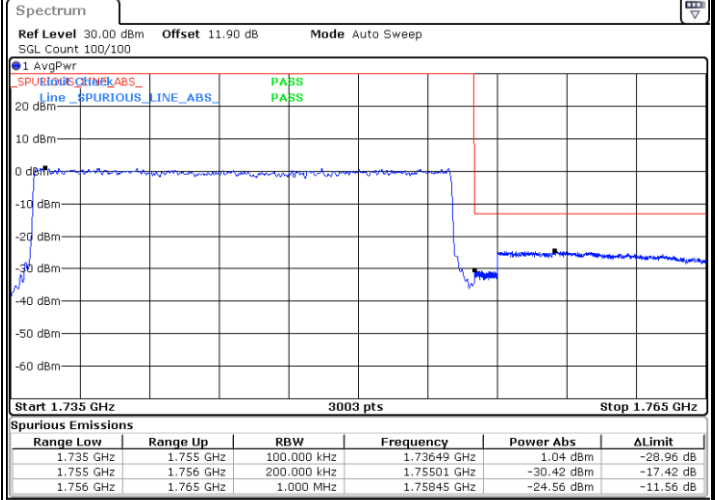
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 21.NOV.2023 17:04:56

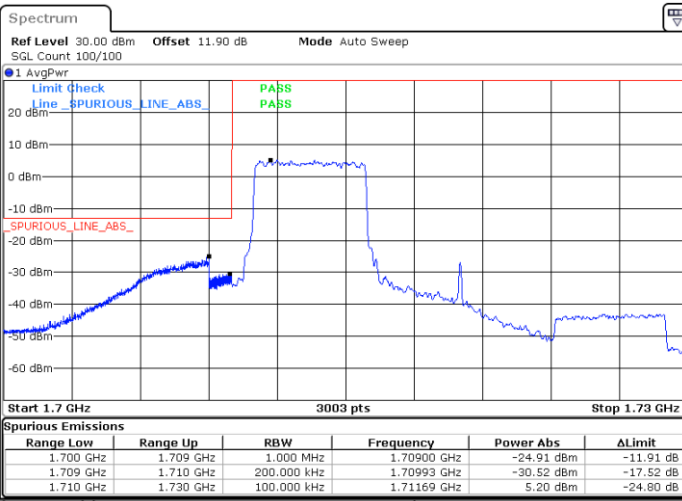
Highest Band Edge / Full RB



Date: 21.NOV.2023 17:12:55

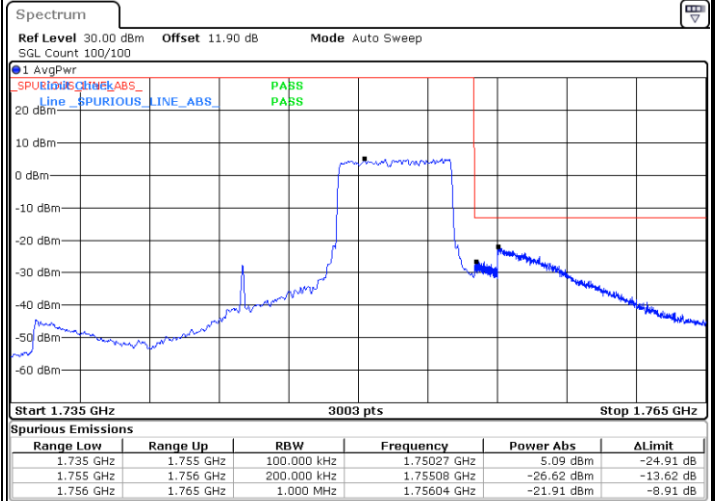
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 21.NOV.2023 17:06:12

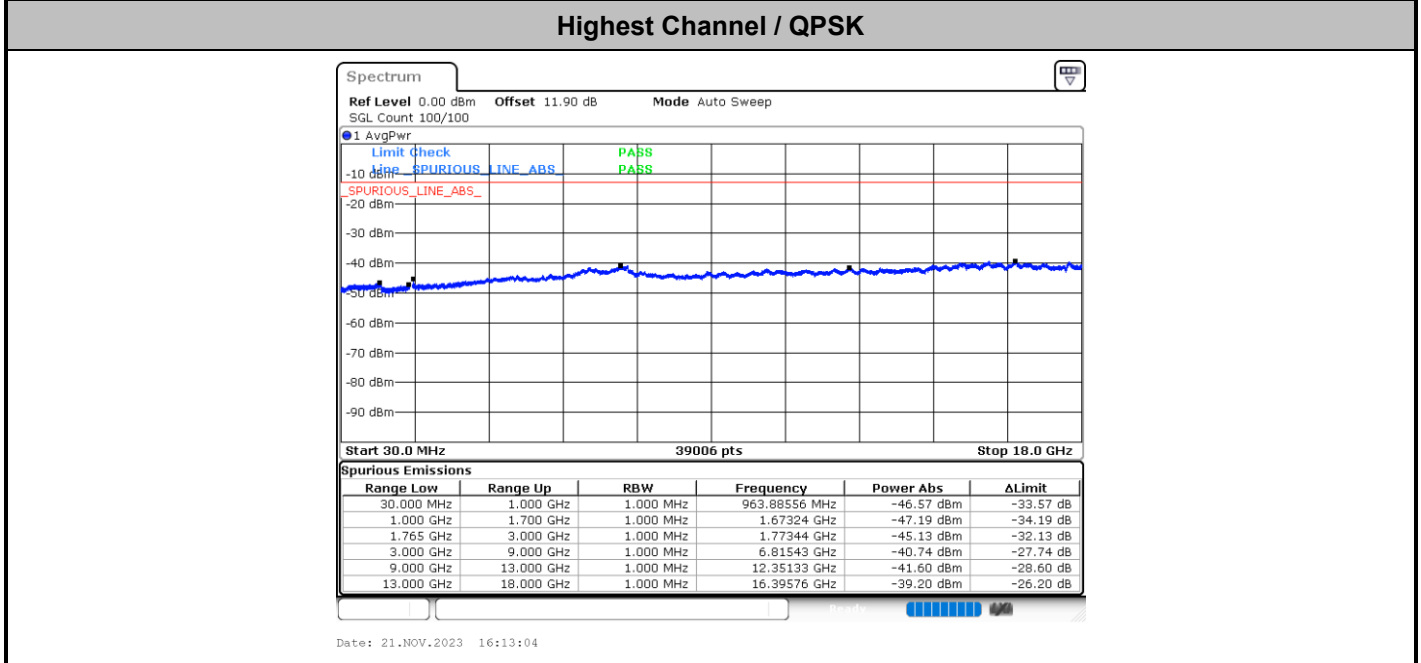
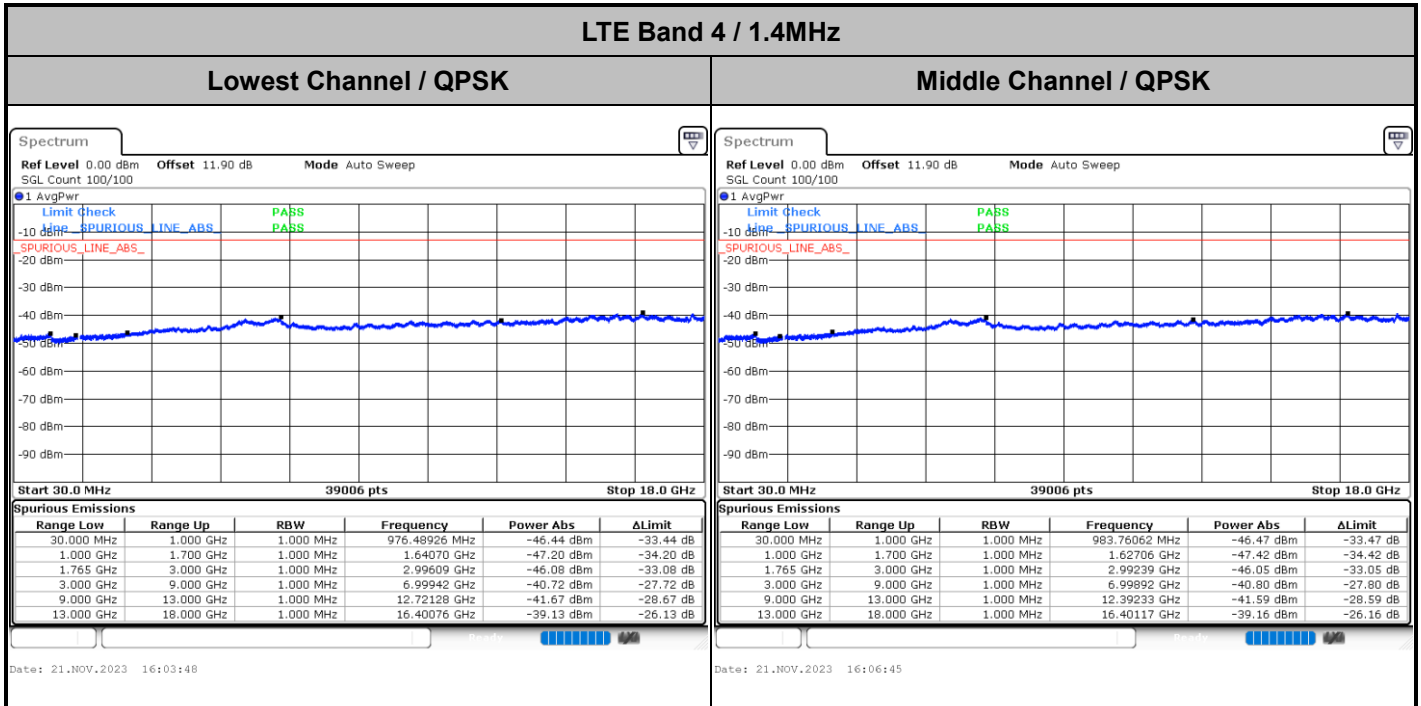
Highest Band Edge / Full RB



Date: 21.NOV.2023 17:14:12



Conducted Spurious Emission

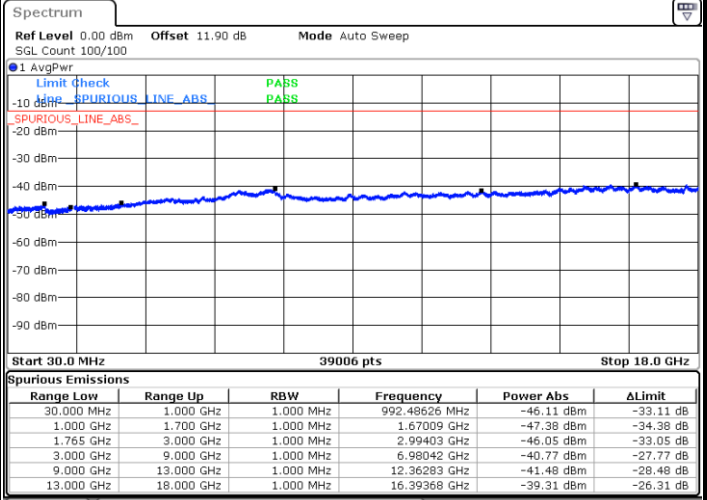
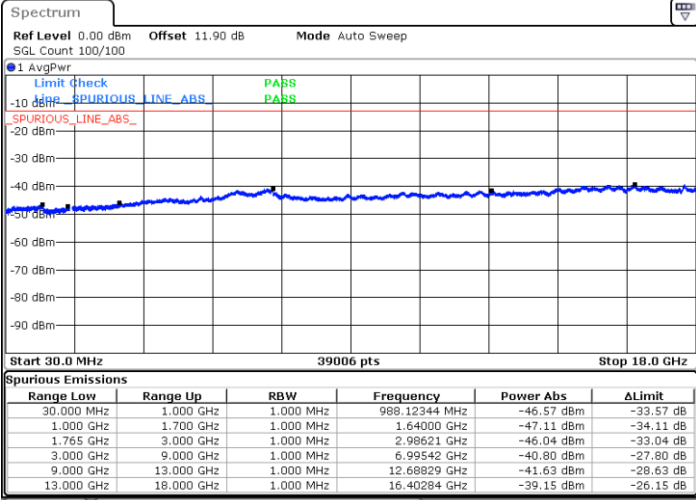




LTE Band 4 / 3MHz

Lowest Channel / QPSK

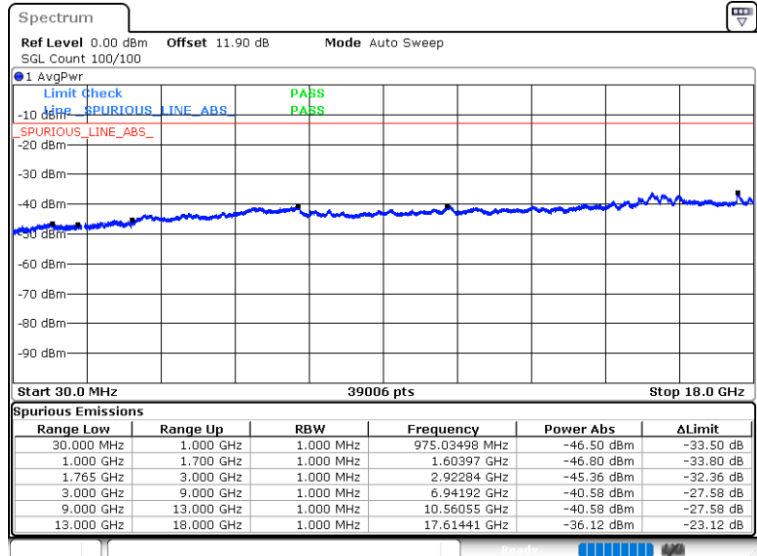
Middle Channel / QPSK



Date: 21.NOV.2023 16:19:32

Date: 21.NOV.2023 16:20:47

Highest Channel / QPSK



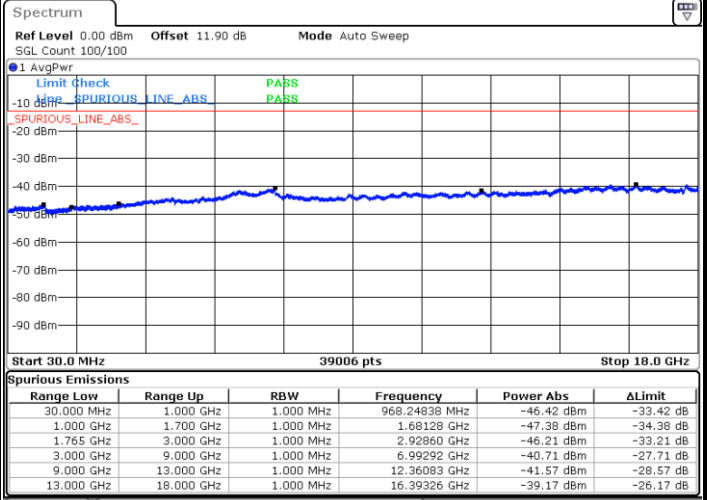
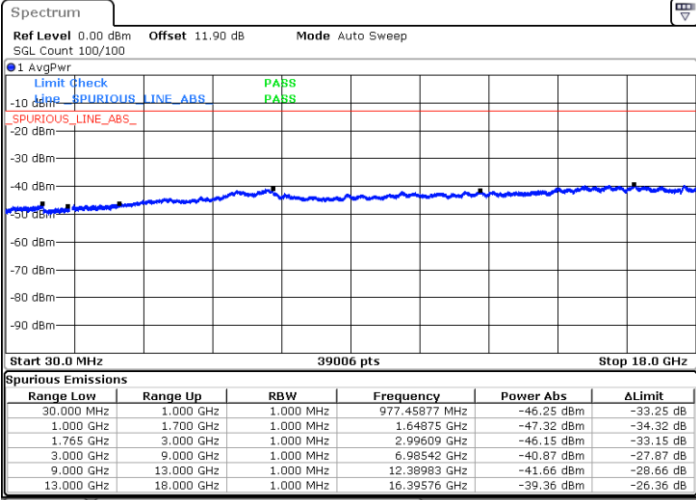
Date: 23.NOV.2023 16:00:42



LTE Band 4 / 5MHz

Lowest Channel / QPSK

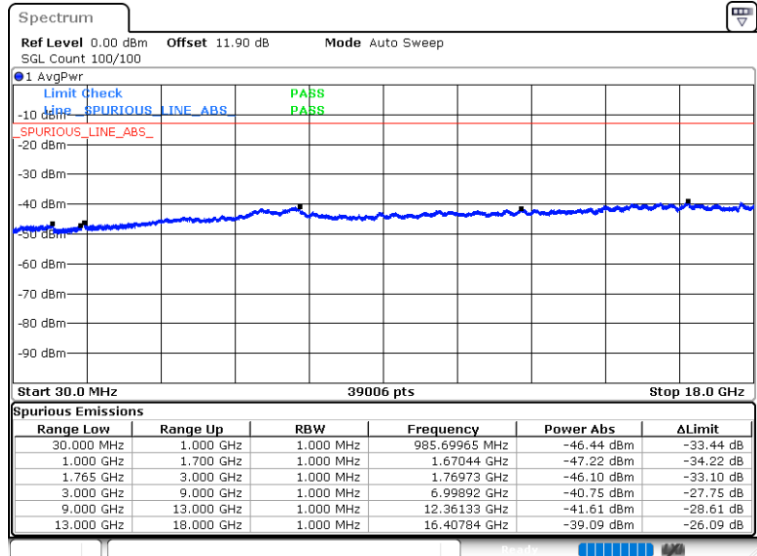
Middle Channel / QPSK



Date: 21.NOV.2023 16:29:45

Date: 21.NOV.2023 16:31:00

Highest Channel / QPSK



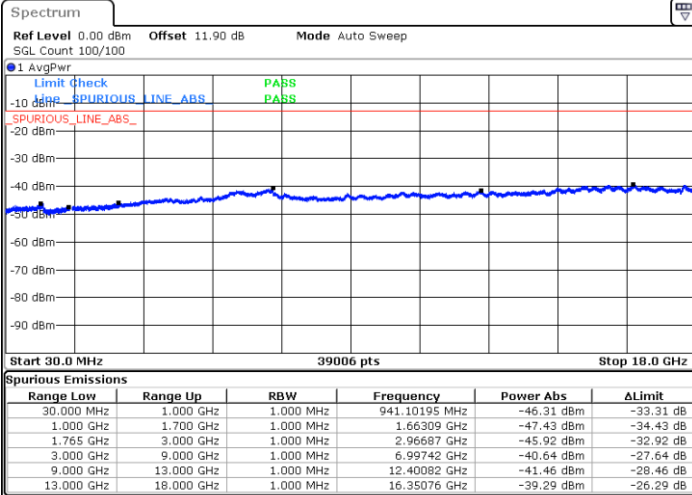
Date: 21.NOV.2023 16:32:15



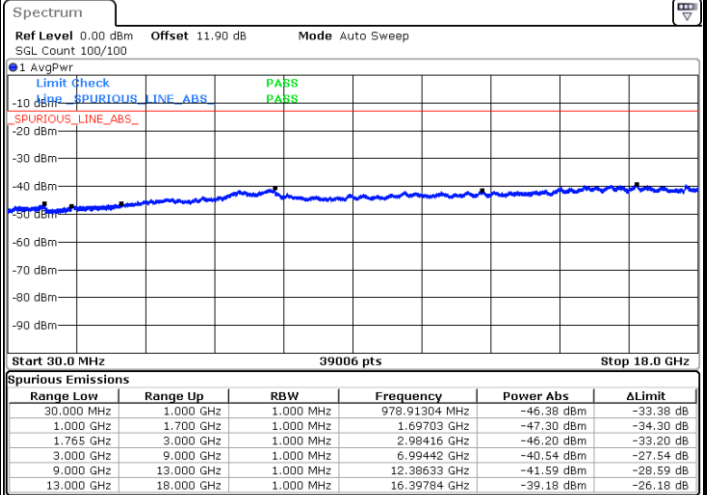
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

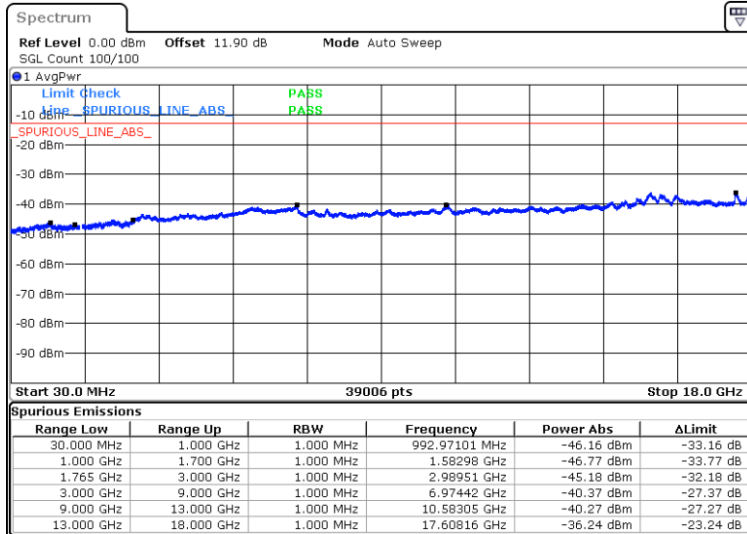


Date: 21.NOV.2023 16:48:27



Date: 21.NOV.2023 16:49:42

Highest Channel / QPSK



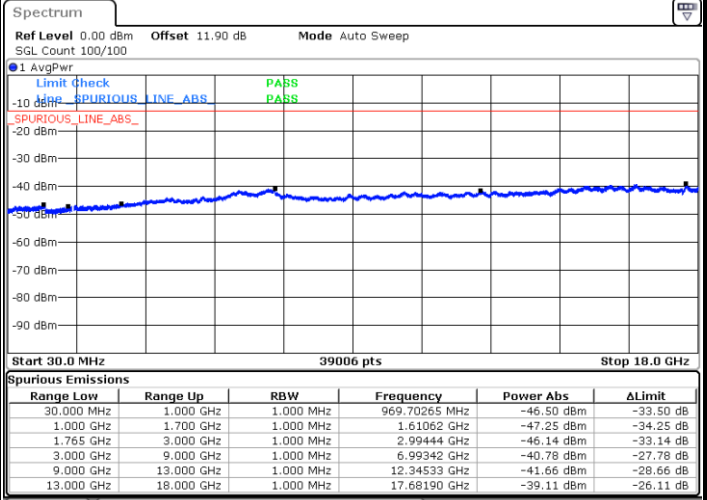
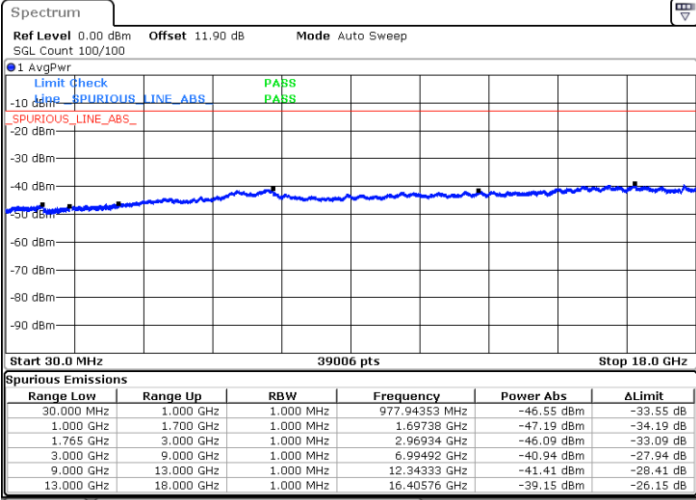
Date: 23.NOV.2023 16:06:03



LTE Band 4 / 15MHz

Lowest Channel / QPSK

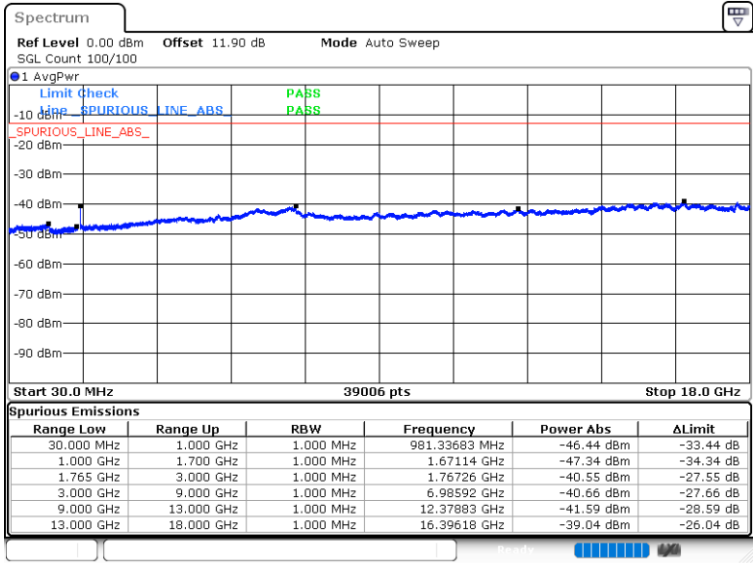
Middle Channel / QPSK



Date: 21.NOV.2023 16:57:31

Date: 21.NOV.2023 16:58:45

Highest Channel / QPSK



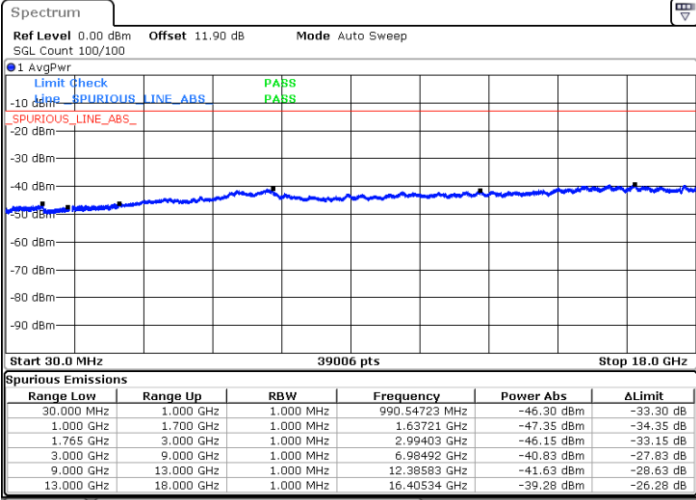
Date: 21.NOV.2023 17:00:00



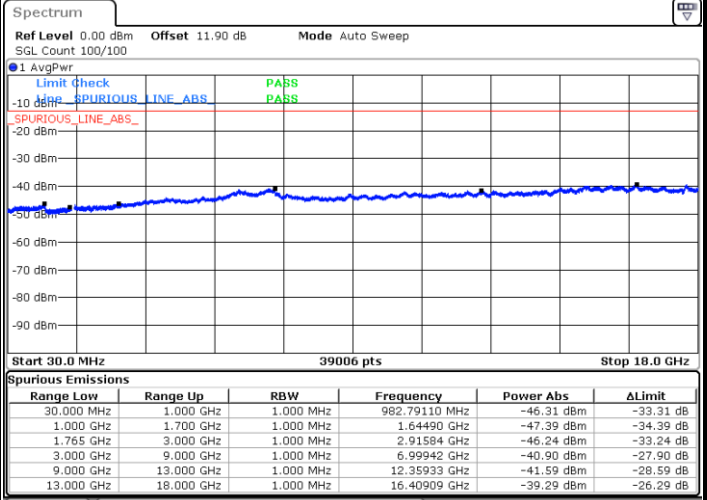
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

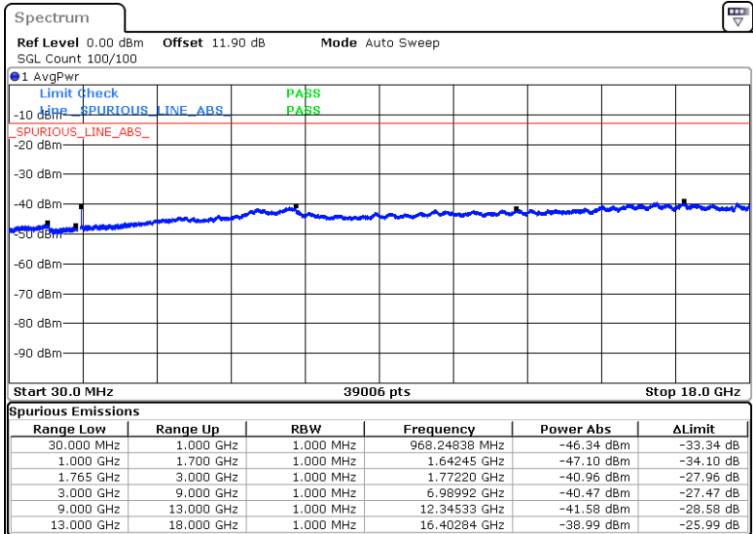


Date: 21.NOV.2023 17:09:10



Date: 21.NOV.2023 17:10:25

Highest Channel / QPSK



Date: 21.NOV.2023 17:11:40



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0003	PASS
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0017	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0034	

Note:

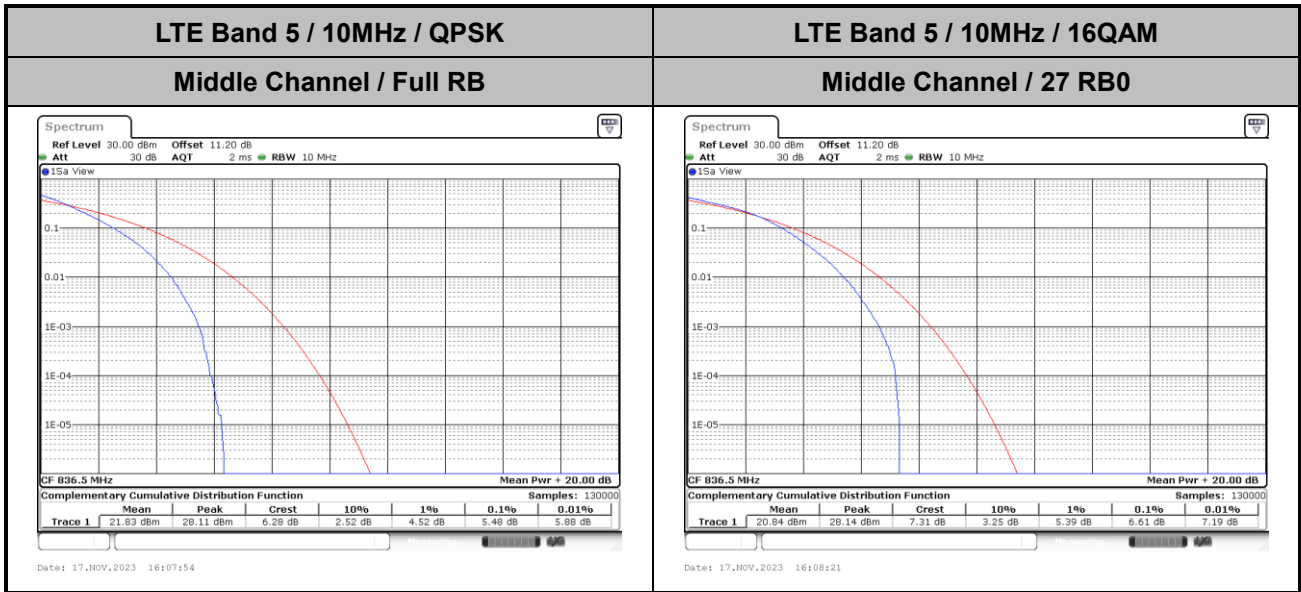
1. Normal Voltage = 3.88 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

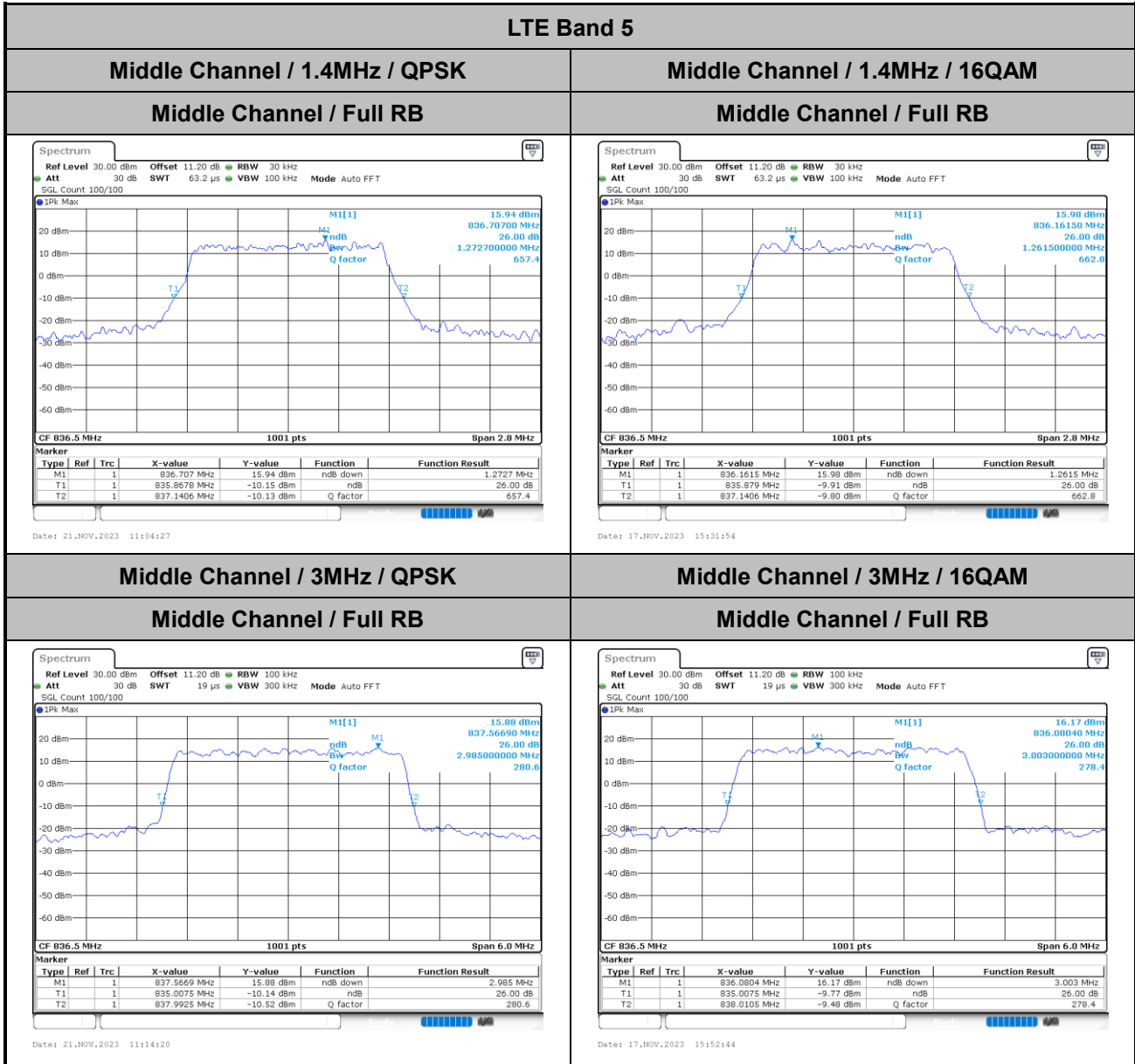
Mode	LTE Band 5 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB	Result
Middle CH	5.48	6.61	PASS

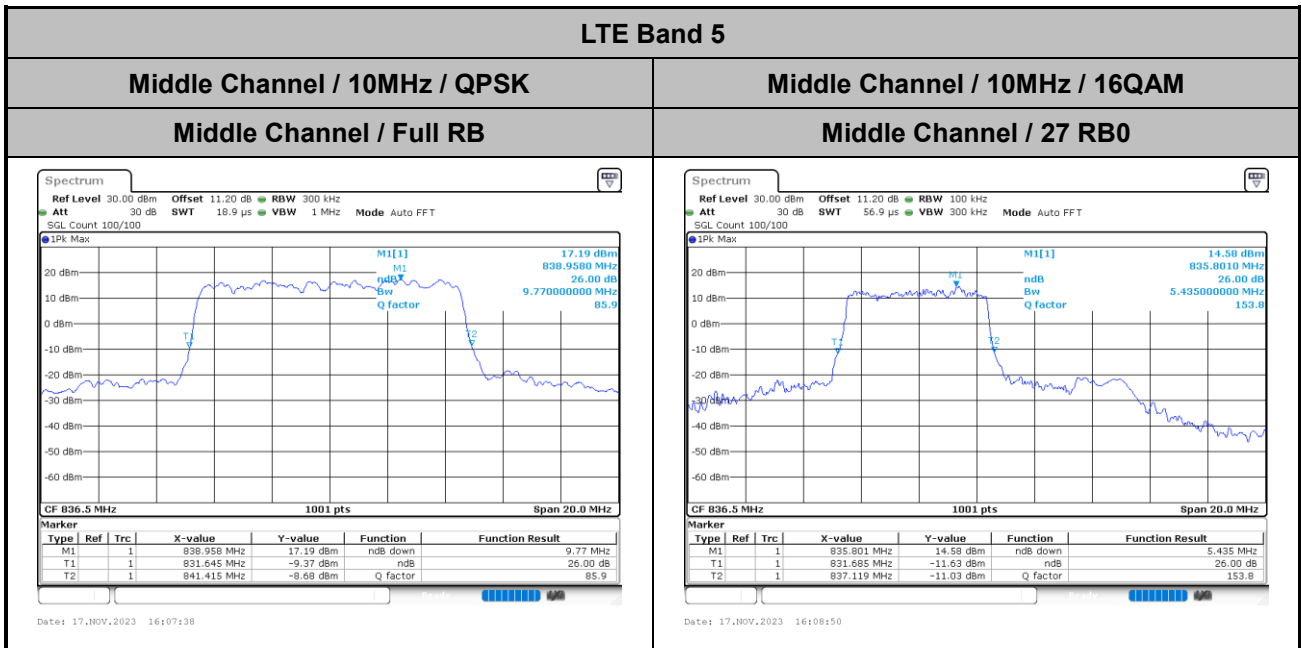
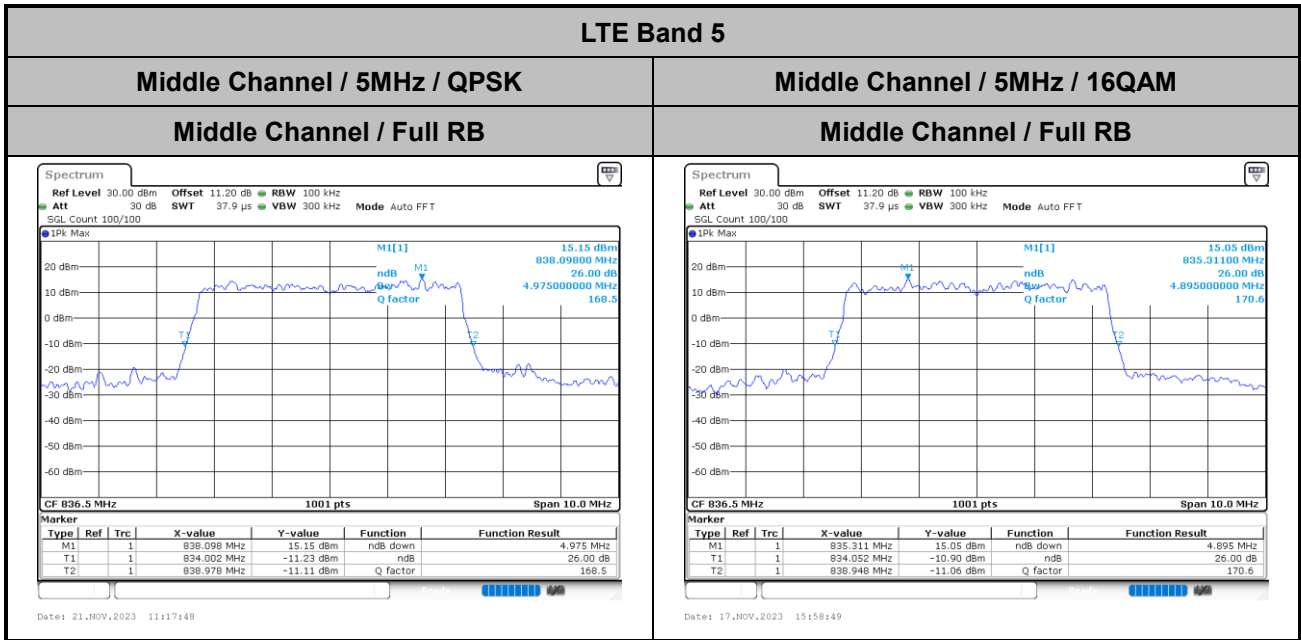




26dB Bandwidth

Mode	LTE Band 5 : 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	1.27	1.26	2.99	3.00	4.98	4.90	9.77	5.44	-	-	-	-

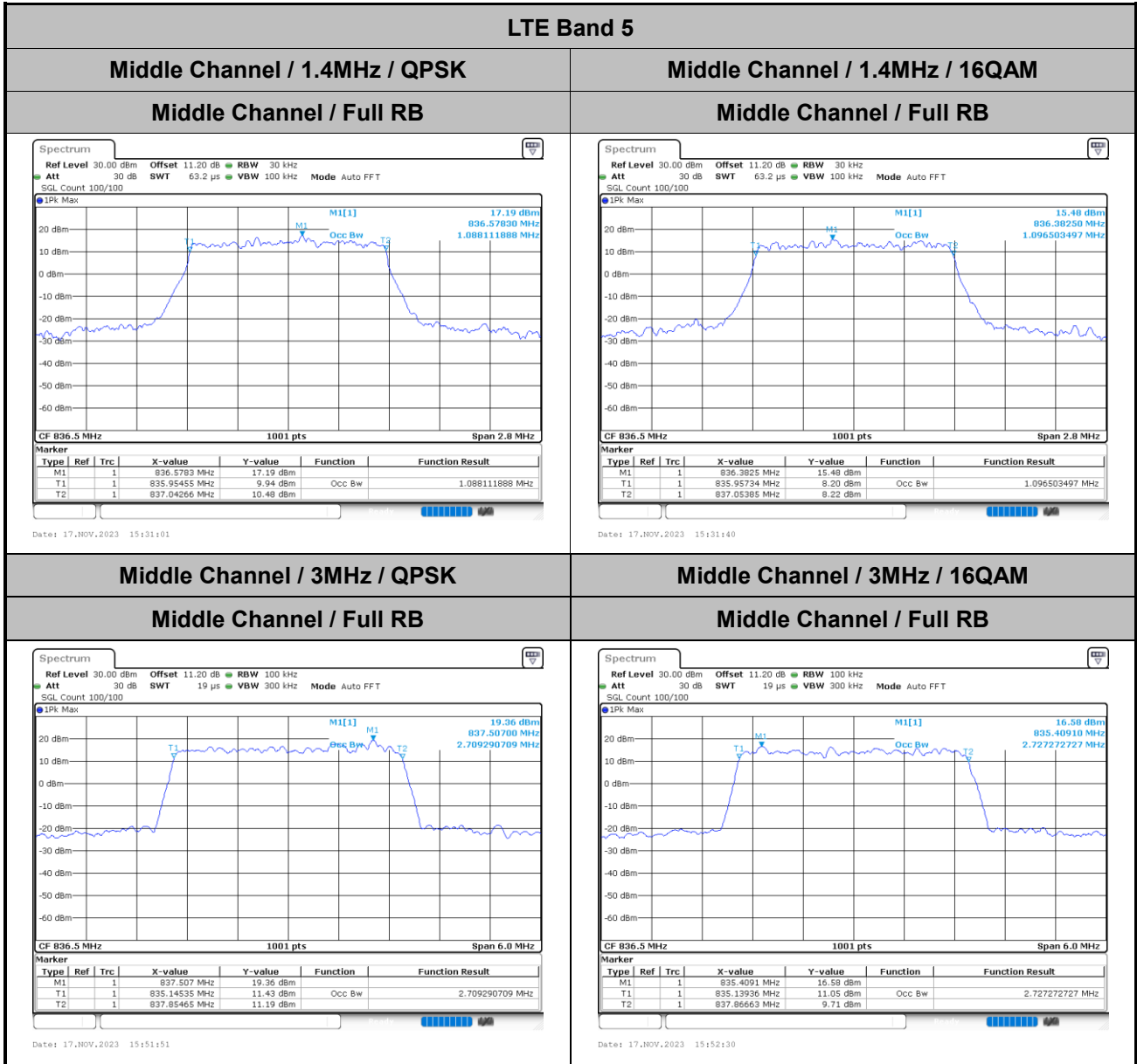






Occupied Bandwidth

Mode	LTE Band 5 : 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	1.09	1.10	2.71	2.73	4.50	4.49	9.01	4.86	-	-	-	-





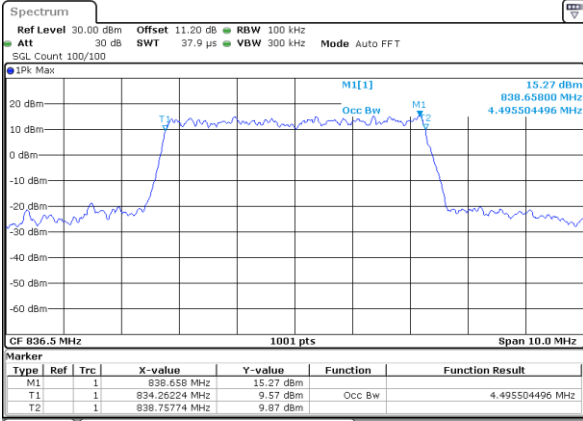
LTE Band 5

Middle Channel / 5MHz / QPSK

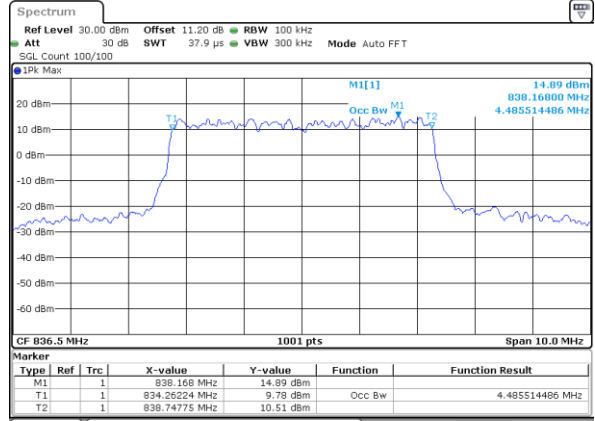
Middle Channel / 5MHz / 16QAM

Middle Channel / Full RB

Middle Channel / Full RB



Date: 17.NOV.2023 15:57:55



Date: 17.NOV.2023 15:58:35

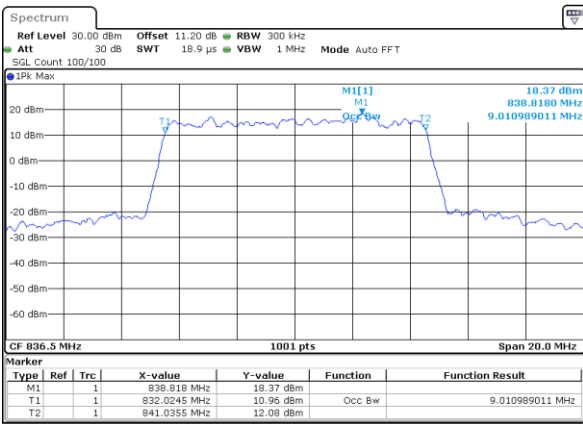
LTE Band 5

Middle Channel / 10MHz / QPSK

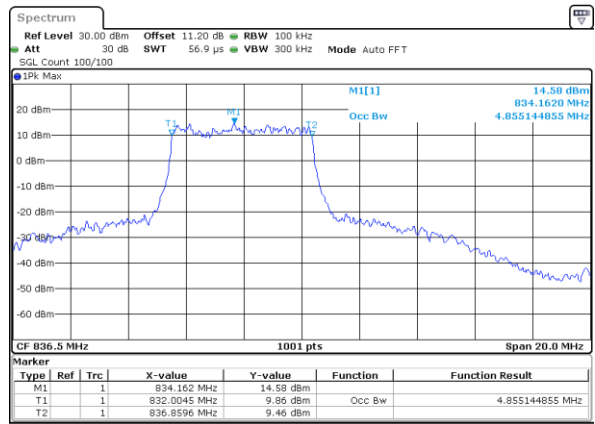
Middle Channel / 10MHz / 16QAM

Middle Channel / Full RB

Middle Channel / 27RB0



Date: 17.NOV.2023 16:07:24



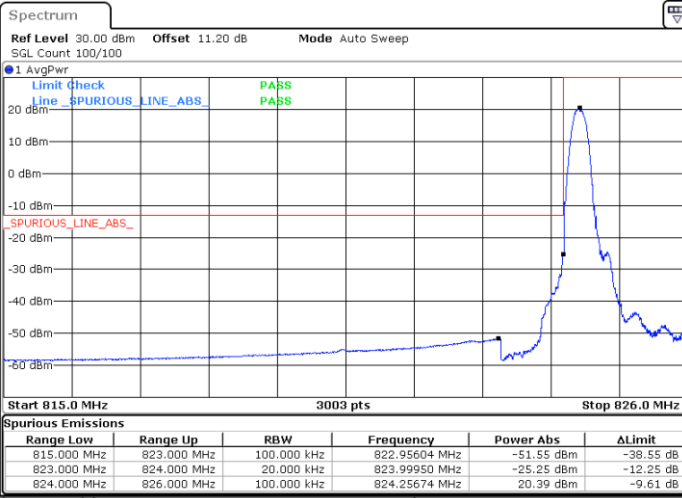
Date: 17.NOV.2023 16:08:35



Conducted Band Edge

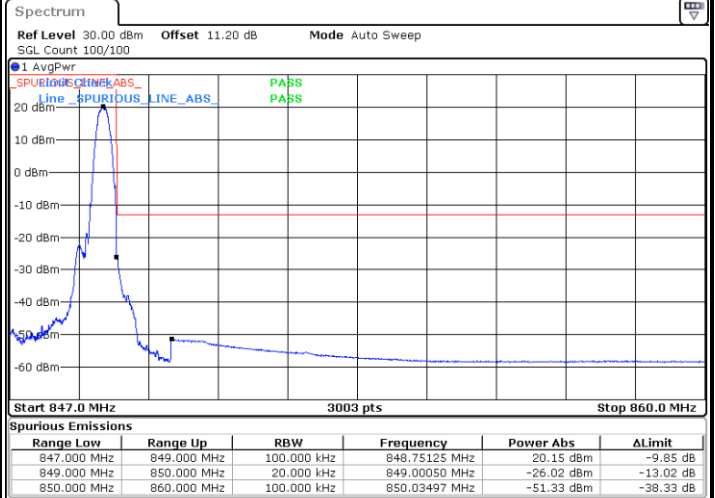
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB0



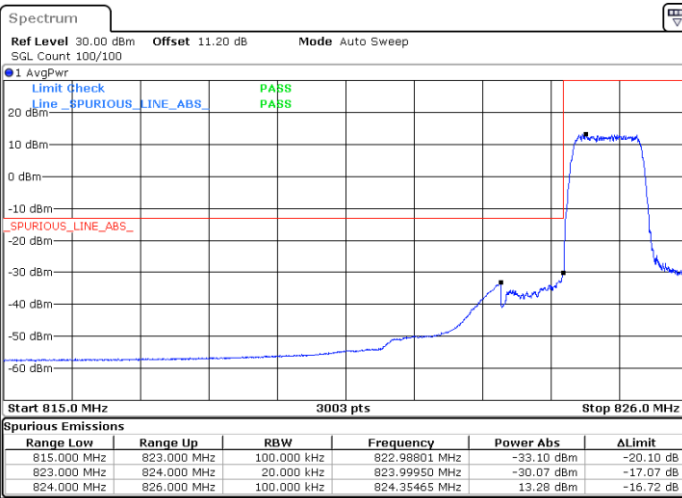
Date: 21.NOV.2023 11:08:54

Highest Band Edge / 1RBmax



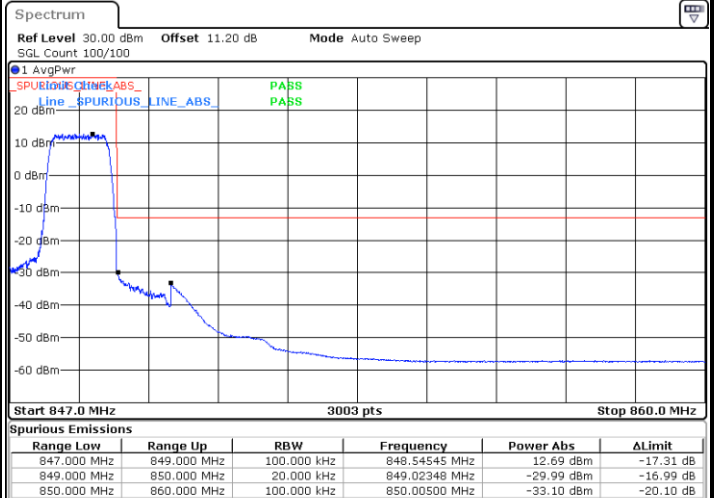
Date: 21.NOV.2023 11:06:31

Lowest Band Edge / Full RB



Date: 17.NOV.2023 15:28:23

Highest Band Edge / Full RB



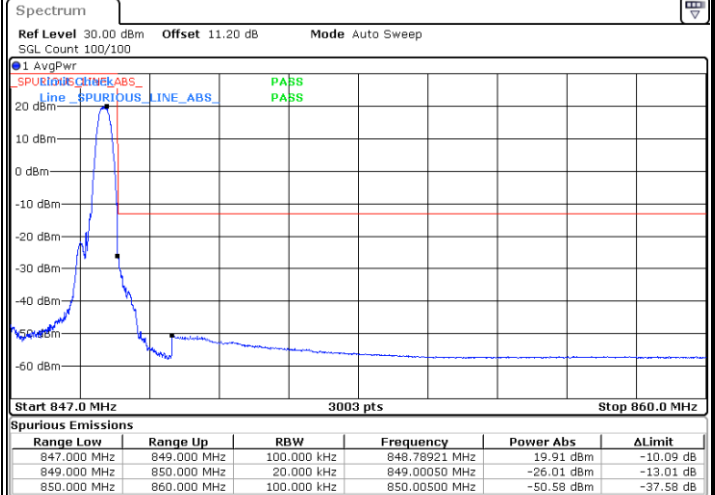
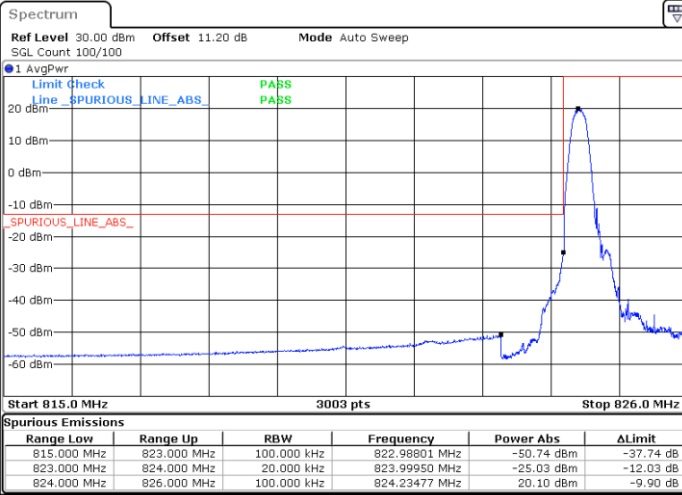
Date: 17.NOV.2023 15:34:06



LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB0

Highest Band Edge / 1 RBmax

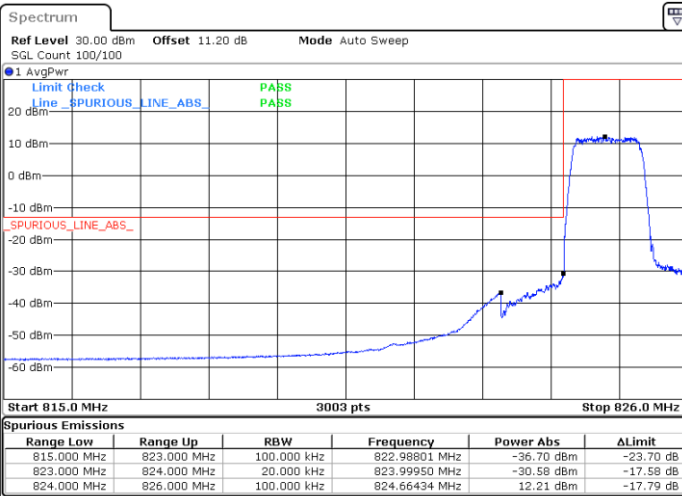


Date: 17.NOV.2023 15:21:48

Date: 17.NOV.2023 15:46:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



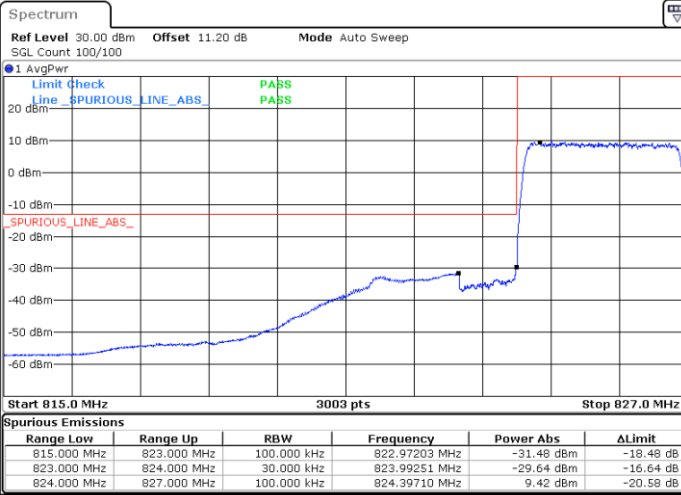
Date: 17.NOV.2023 15:29:19

Date: 17.NOV.2023 16:35:15



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 17.NOV.2023 15:50:28

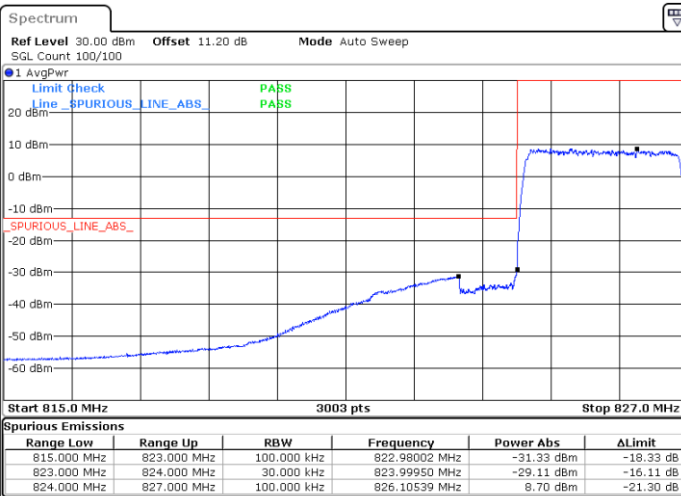
Highest Band Edge / Full RB



Date: 17.NOV.2023 15:53:39

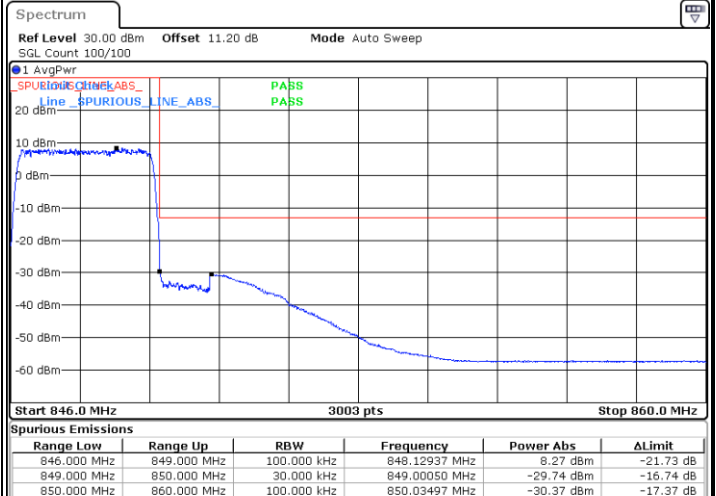
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Date: 17.NOV.2023 15:51:24

Highest Band Edge / Full RB

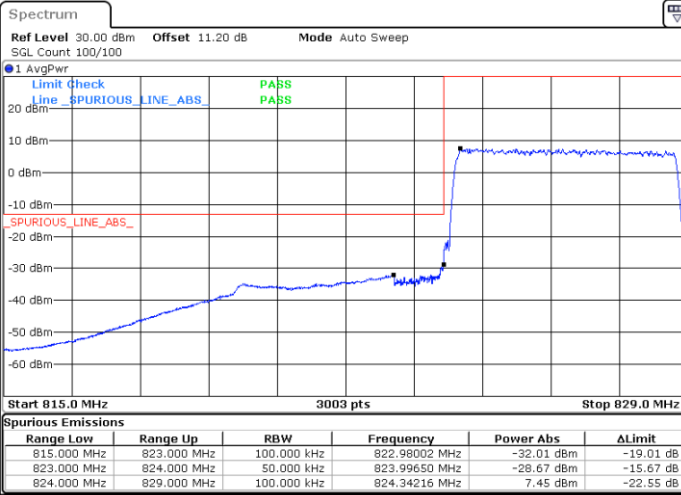


Date: 17.NOV.2023 15:54:35



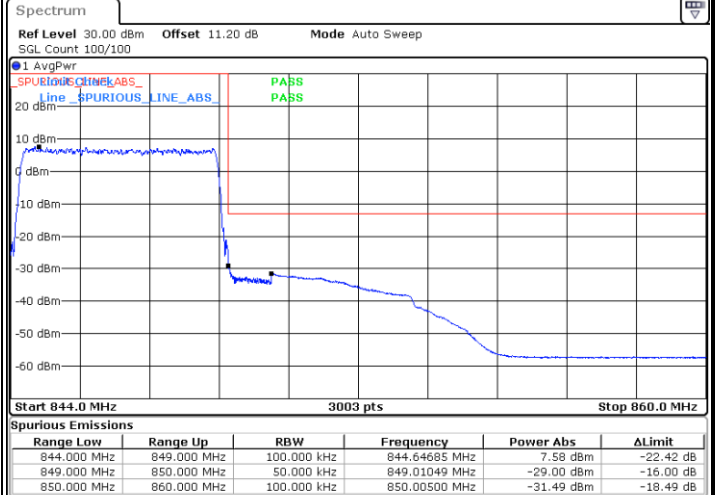
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 17.NOV.2023 15:56:33

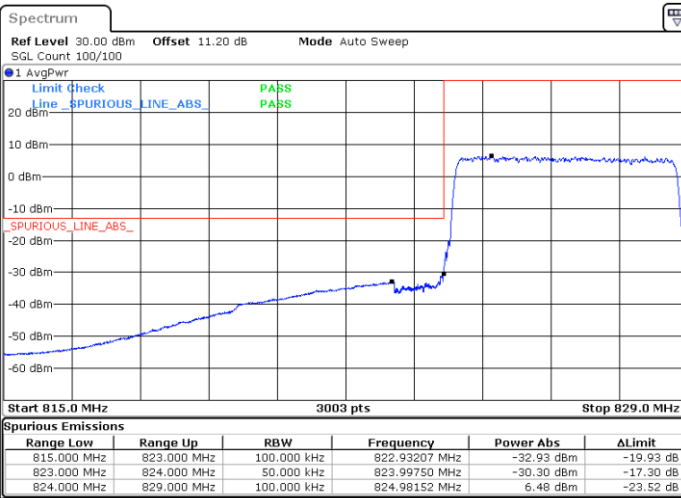
Highest Band Edge / Full RB



Date: 17.NOV.2023 15:59:44

LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 17.NOV.2023 15:57:29

Highest Band Edge / Full RB

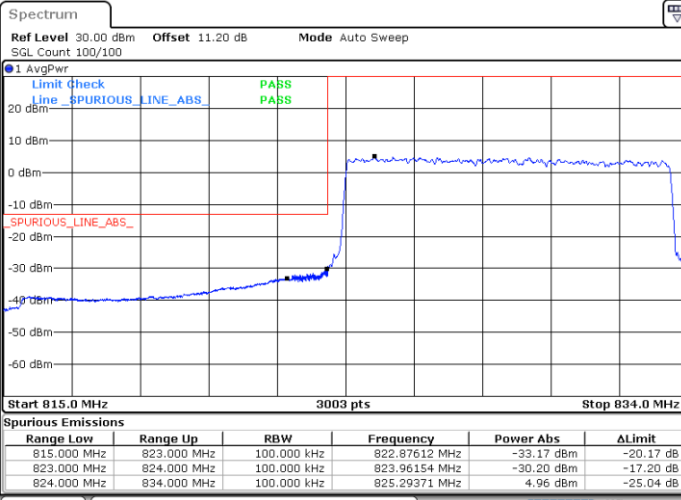


Date: 17.NOV.2023 16:00:40



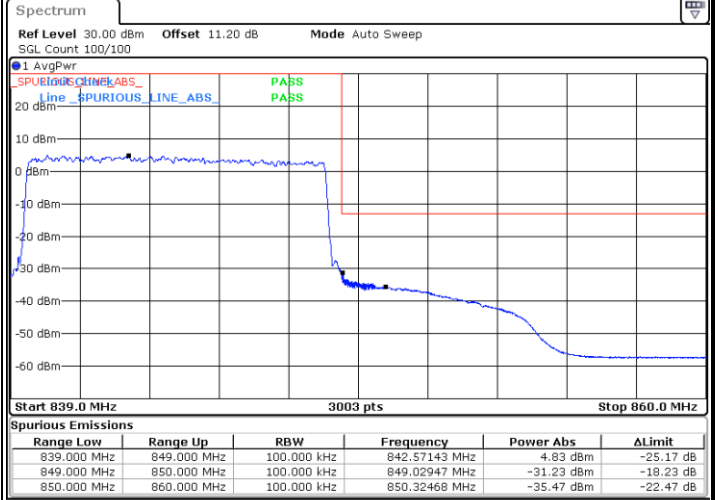
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 17.NOV.2023 16:06:00

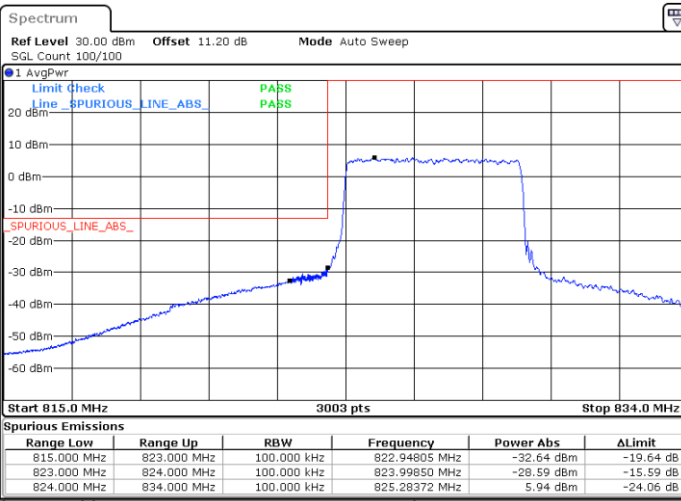
Highest Band Edge / Full RB



Date: 17.NOV.2023 16:09:45

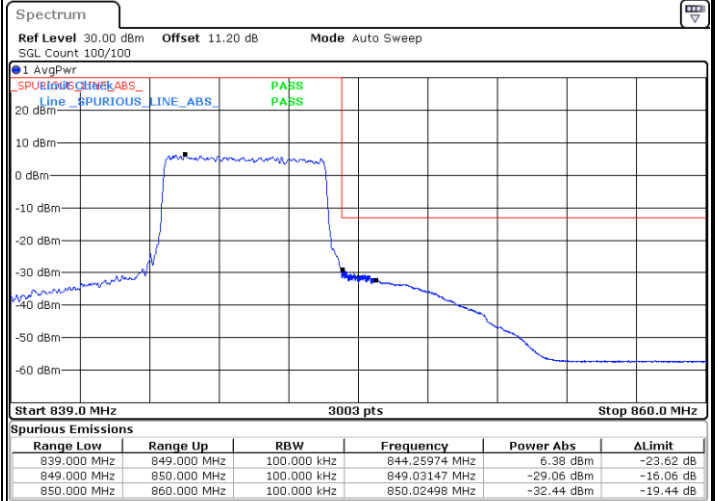
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 27 RB0



Date: 17.NOV.2023 16:06:58

Highest Band Edge / 27 RBmax



Date: 17.NOV.2023 16:10:41

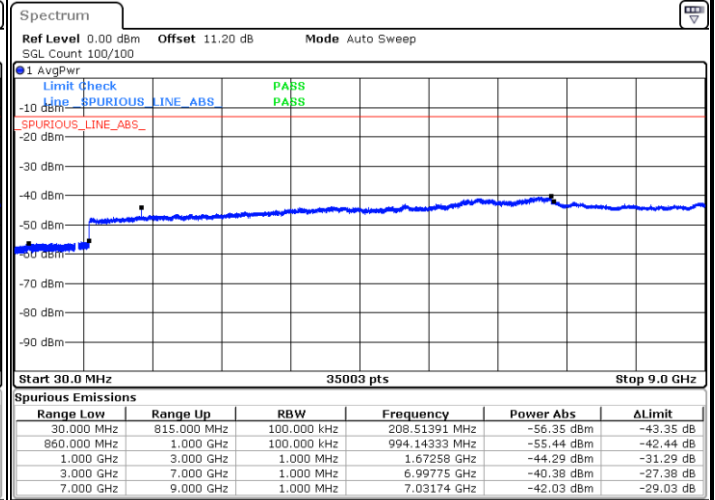
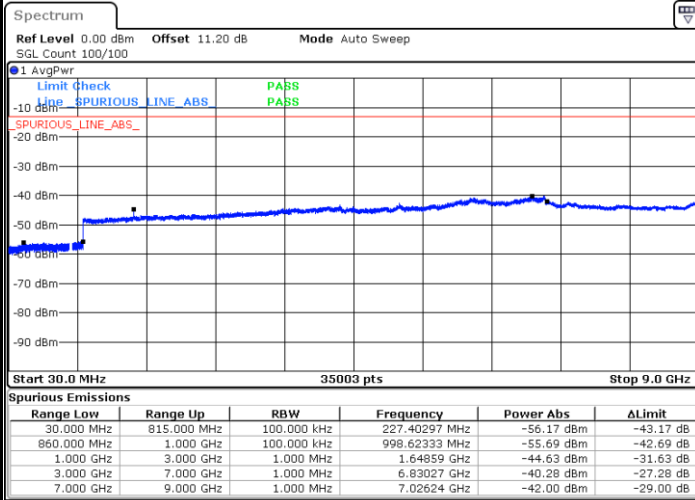


Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

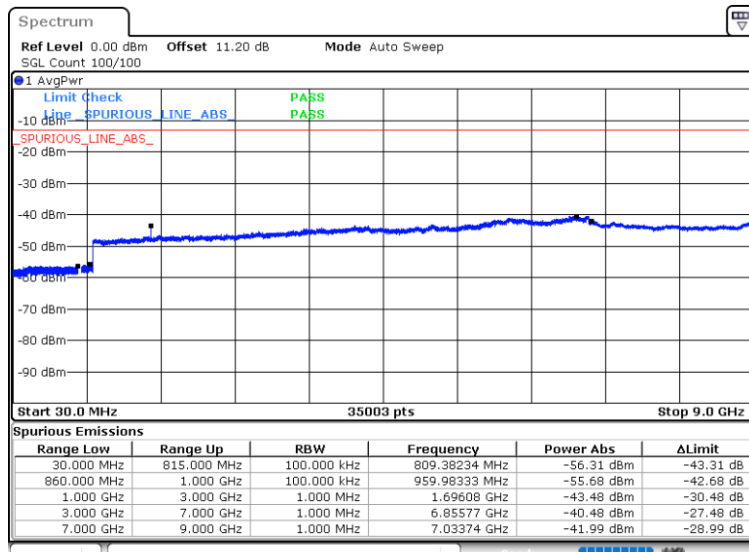
Middle Channel / QPSK



Date: 17.NOV.2023 15:27:28

Date: 17.NOV.2023 15:30:35

Highest Channel / QPSK



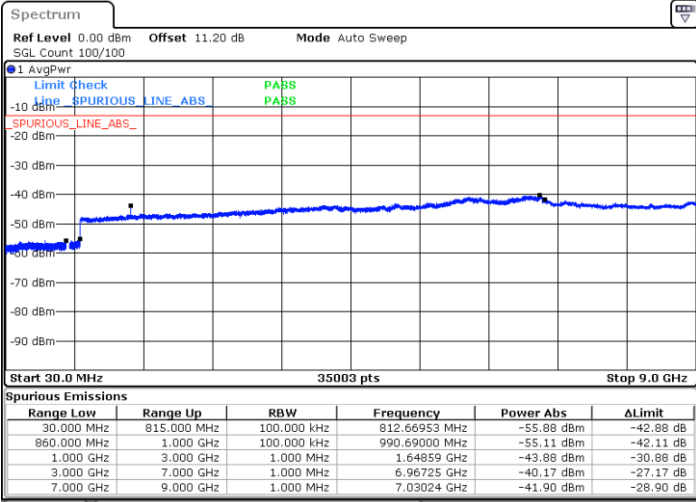
Date: 17.NOV.2023 15:33:10



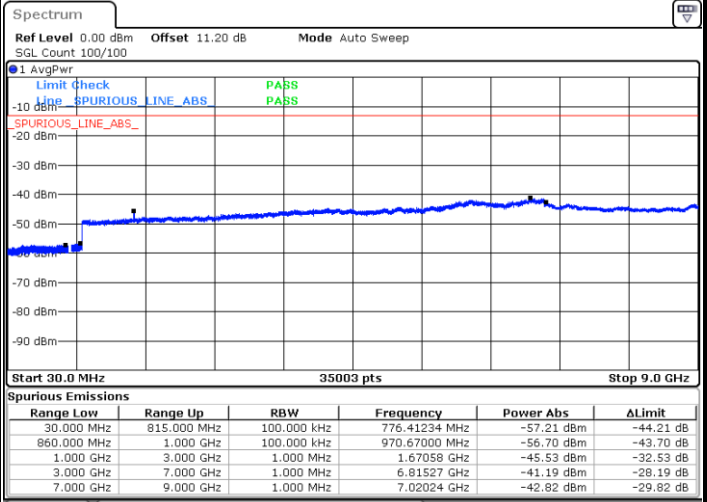
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

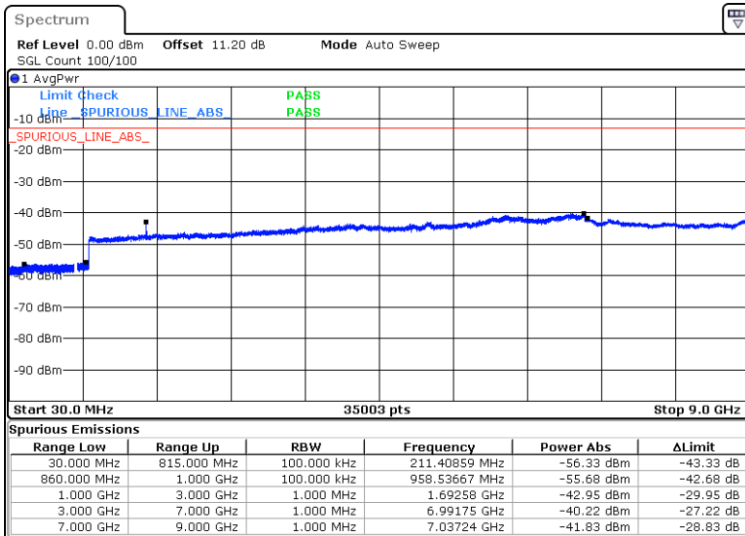


Date: 17.NOV.2023 16:12:57



Date: 21.NOV.2023 11:16:37

Highest Channel / QPSK



Date: 17.NOV.2023 16:15:26